

COLLEGE OF
MARIN

**Interim Classrooms
Project #I25-35612**

PROJECT MAUNAL

BID NUMBER: #17/18 MB10

MARIN COMMUNITY COLLEGE DISTRICT

February 6, 2018

**Mandatory Conference/Site Walk: Tuesday, February 20, 2018 at
1:30pm**

**Location: 1800 Ignacio Blvd., Fiscal Services, Bldg. 8, Indian Valley
Campus, Novato, CA 94949**

**Proposal Due Date and Time: Monday, March 5, 2018 Received by
11:00am**

**Location: 1800 Ignacio Blvd., Fiscal Services, Bldg. 8, Indian Valley
Campus, Novato, CA 94949**

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DSA#02-102043

TS-1	Title Sheet
N-1	General Notes
1	Floor Plan & Notes
2	Exterior Elevations
3	Ceiling Grid, Details, and Notes
4	Interior Elevations and Options
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S2	Floor Framing Plan and Details
S3	Roof Framing Plan and Details
S4	Wall Framing Elevations and Frame Details
S5R	Ramp Plan, Elevations and Details
M1	Mechanical Plan & Notes
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DSA#02-105665

TS-1	Title Sheet
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1	Floor Plan & Notes
2	Exterior Elevations
3	Ceiling Grid, Details, and Notes
4	Interior Elevations and Options
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S3	Roof Framing Plan and Details
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S4	Wall Framing Elevations and Frame Details
S5R	Ramp Plan, Elevations and Details
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E1	Electrical Plan & Notes

DSA#02-107162

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DSA#69217

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2	Exterior Elevations

3	Ceiling Grid, Details, and Notes
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DSA#04-116149

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NOTICE TO BIDDERS

1. Notice is hereby given that the governing board ("Board") of the Marin Community College District ("District") will receive sealed bids for the following project, Bid No. 17/18 MB10 ("Project" or "Contract"):

Project: I25-35612 – INTERIM CLASSROOMS

2. The Project consists of:

Electrical, Fire Alarm, and Telecom scope of work as indicated in the contract drawings. Contractor will also be responsible for ramps, landings and A/C paths indicated around the modular buildings. The district holds the contract for leasing the eight (8) modular buildings, and having them installed on site.

3. To bid on this Project, the Bidder is required to possess one or more of the following State of California Contractor Licenses:

B or C-10

The Bidder's license(s) must remain active and in good standing throughout the term of the Contract.

4. To bid on this Project, the Bidder is required to be registered as a public works contractor with the Department of Industrial Relations. The Bidder's registration must remain active throughout the term of the Contract.

5. Contract Documents are available on February 6, 2018, for review at the District Fiscal Services Office. In addition, Contract Documents are available for bidders' review at the following builders' exchanges:

- A. Marin Builders Exchange
- B. North Coast Builders Exchange
- C. District Fiscal Services Website: <http://fiscal.marin.edu/bids>

6. Sealed Bids will be received until **11:00a.m., Monday March 5, 2018**, at the Marin Community College District Indian Valley Campus, District Fiscal Services Office, Bldg. 8, 1800 Ignacio Blvd., Novato, California, 94949, at or after which time the bids will be opened and publicly read aloud. Any bid that is submitted after this time shall be non-responsive and returned to the bidder. Any claim by a bidder of error in its bid must be made in compliance with section 5100 et seq. of the Public Contract Code.

7. All bids shall be on the form provided by the District. Each bid must conform and be responsive to all pertinent Contract Documents, including, but not limited to, the Instructions to Bidders.
8. A bid bond by an admitted surety insurer on the form provided by the District, cash, or a cashier's check or a certified check, drawn to the order of the Marin Community College District, in the amount of ten percent (10%) of the total bid price, shall accompany the Bid Form and Proposal, as a guarantee that the Bidder will, within seven (7) calendar days after the date of the Notice of Award, enter into a contract with the District for the performance of the services as stipulated in the bid.
9. A mandatory pre-bid conference and site visit will be held on **Tuesday February 20, 2018, at 1:30 p.m.** at Marin Community College District Indian Valley Campus, District Fiscal Services Office, Bldg. 8, 1800 Ignacio Blvd., Novato, California, 94949. All participants are required to sign in. The site visit is expected to take approximately 1 hour. Failure to attend or tardiness will render bid ineligible.
10. The successful Bidder shall be required to furnish a 100% Performance Bond and a 100% Payment Bond if it is awarded the contract for the Work.
11. The successful Bidder may substitute securities for any monies withheld by the District to ensure performance under the Contract, in accordance with the provisions of section 22300 of the Public Contract Code.
12. The Contractor and all Subcontractors under the Contractor shall pay all workers on all work performed pursuant to this Contract not less than the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work as determined by the Director of the Department of Industrial Relations, State of California, for the type of work performed and the locality in which the work is to be performed within the boundaries of the District, pursuant to sections 1770 et seq. of the California Labor Code. Prevailing wage rates are also available from the District or on the Internet at: <<http://www.dir.ca.gov>>.
13. This Project is subject to labor compliance monitoring and enforcement by the Department of Industrial Relations pursuant to Labor Code section 1771.4 and subject to the requirements of Title 8 of the California Code of Regulations. The Contractor and all Subcontractors under the Contractor shall furnish electronic certified payroll records directly to the Labor Commissioner weekly or within ten (10) days of any request by the District or the Labor Commissioner. The successful Bidder shall comply with all requirements of Division 2, Part 7, Chapter 1, of the Labor Code.
14. The District's Board has found and determined that the following item(s) shall be used on this Project based on the purpose(s) indicated. (Public Contract Code section 3400(c)): A particular material, product, thing, or service is designated by specific brand or trade name for the following purpose(s):
 - (1) In order to match other products in use on a particular public improvement either completed or in the course of completion:

- Simplex Fire Alarm Systems
 - Honeywell Notifier Alarm Control Panel
15. The District shall award the Contract, if it awards it at all, to the lowest responsive responsible bidder based on:
- A. The base bid amount only.
16. The Board reserves the right to reject any and all bids and/or waive any irregularity in any bid received. If the District awards the Contract, the security of unsuccessful bidder(s) shall be returned within sixty (60) days from the time the award is made. Unless otherwise required by law, no bidder may withdraw its bid for ninety (90) days after the date of the bid opening.

END OF DOCUMENT

DOCUMENT 00 11 00

INSTRUCTIONS TO BIDDERS

Contractors shall follow the instructions in this document, and shall submit all documents, forms, and information required for consideration of a Bid.

Marin Community College District ("District") will evaluate information submitted by the apparent low Bidder and, if incomplete or unsatisfactory to District, Bidder's bid may be rejected at the sole discretion of District.

1. Bids are requested for a general construction contract, or work described in general, for the following project ("Project" or "Contract"):

I25-35612 – INTERIM CLASSROOMS

2. District will receive sealed Bids from Bidders as stipulated in the Notice to Bidders.
3. Bidders must submit Bids on the Bid Form and Proposal and all other required District forms. Bids not submitted on the District's required forms shall be deemed non-responsive and shall not be considered. Additional sheets required to fully respond to requested information are permissible.
4. Bidders must supply all information required by each Bid Document. Bids must be full and complete. District reserves the right in its sole discretion to reject any Bid as non-responsive as a result of any error or omission in the Bid. Bidders must complete and submit all of the following documents with the Bid Form and Proposal:
 - a. Bid form and proposal
 - b. Bid Bond on the District's form or other security.
 - c. Designated Subcontractors List.
 - d. Site-Visit Certification
 - e. Non-collusion Declaration.

All information or responses of a Bidder in its Bid Proposal and other documents accompanying the Bid Proposal shall be complete, accurate and true. Incomplete, inaccurate or untrue responses or information provided therein by a Bidder shall be grounds for the District to reject such Bidder's Bid Proposal for non-responsiveness.

5. Bidders must submit with their Bids cash, a cashier's check or a certified check payable to District, or a bid bond by an admitted surety insurer of not less than ten percent (10%) of amount of base Bid, plus all additive alternates. If Bidder chooses to provide a Bid Bond as security, Bidder must use the required form of corporate surety provided by District. The Surety on Bidder's Bid Bond must be an insurer admitted in the State of California and authorized to issue surety bonds in the State of California. Bids submitted without necessary bid security will be deemed non-responsive and will not be considered.

7. If Bidder to whom Contract is awarded fails or neglects to enter into Contract and submit required bonds, insurance certificates, and all other required documents, within **SEVEN (7)** calendar days after the date of the Notice of Award, District may deposit Bid Bond, cash, cashier's check, or certified check for collection, and proceeds thereof may be retained by District as liquidated damages for failure of Bidder to enter into Contract, in the sole discretion of District, and may thereupon award the Contract for the Work to the responsible Bidder submitting the next lowest Bid Proposal or may reject all bids and call for new bids, in its sole and exclusive discretion. It is agreed that calculation of damages District may suffer as a result of Bidder's failure to enter into the Contract would be extremely difficult and impractical to determine and that the amount of the Bidder's required bid security shall be the agreed and conclusively presumed amount of damages.

8. Bidders must submit with the Bid the Designated Subcontractors List for those subcontractors who will perform any portion of Work, including labor, rendering of service, or specially fabricating and installing a portion of the Work or improvement according to detailed drawings contained in the plans and specifications, in excess of one half of one percent (0.5%) of total Bid. All of the listed subcontractors are required to be registered as a public works contractor with the Department of Industrial Relations. The subcontractor's registration must remain active throughout the term of the Contract. Failure to submit this list when required by law shall result in Bid being deemed non-responsive and the Bid will not be considered.
 - a. An inadvertent error in listing the California contractor license number on the Designated Subcontractors List shall not be grounds for filing a bid protest or grounds for considering the bid nonresponsive if the correct contractor's license number is submitted to the District within 24 hours after the bid opening and the corrected number corresponds with the submitted name and location for that subcontractor.
 - b. An inadvertent error listing an unregistered subcontractor shall not be grounds for filing a bid protest or grounds for considering the bid nonresponsive provided that any of the following apply:
 - (1) The subcontractor is registered prior to the bid opening.
 - (2) The subcontractor is registered and has paid the penalty registration fee within 24 hours after the bid opening.
 - (3) The subcontractor is replaced by another registered subcontractor pursuant to Public Contract Code section 4107.

9. If a mandatory pre-bid conference and site visit ("Site Visit") is requested as referenced in the Notice to Bidders, then Bidders must submit the Site-Visit Certification with their Bid. District will transmit to all prospective Bidders of record such Addenda as District in its discretion considers necessary in response to questions arising at the Site Visit. Oral statements shall not be relied upon and will not be binding or legally effective. Addenda issued by the District as a result of the Site Visit, if any, shall constitute the sole and exclusive record and statement of the results of the Site Visit.

10. Bidders shall submit the Noncollusion Declaration with their Bids. Bids submitted without the Noncollusion Declaration shall be deemed non-responsive and will not be considered.
11. Bids shall be clearly written without erasure or deletions. District reserves the right to reject any Bid containing erasures or deletions.
12. Bidders shall not modify the Bid Form and Proposal or qualify their Bids. Bidders shall not submit to the District a scanned, re-typed, word-processed, or otherwise recreated version of the Bid Form and Proposal or other District-provided document.
13. The Bidder and all Subcontractors under the Contractor shall pay all workers on all work performed pursuant to this Contract not less than the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work as determined by the Director of the Department of Industrial Relations, State of California, for the type of work performed and the locality in which the work is to be performed within the boundaries of the District, pursuant to sections 1770 et seq. of the California Labor Code. Copies of the general prevailing rates of per diem wages for each craft, classification, or type of worker needed to execute the Contract, as determined by Director of the State of California Department of Industrial Relations, are available upon request at the District's principal office. Prevailing wage rates are also available on the internet at <http://www.dir.ca.gov>.
14. Submission of Bid signifies careful examination of Contract Documents and complete understanding of the nature, extent, and location of Work to be performed. Bidders must complete the tasks listed below as a condition to bidding, and submission of a Bid shall constitute the Bidder's express representation to District that Bidder has fully completed the following:
 - a. Bidder has visited the Site, if required, and has examined thoroughly and understood the nature and extent of the Contract Documents, Work, Site, locality, actual conditions, as-built conditions, and all local conditions and federal, state and local laws, and regulations that in any manner may affect cost, progress, performance, or furnishing of Work or that relate to any aspect of the means, methods, techniques, sequences, or procedures of construction to be employed by Bidder and safety precautions and programs incident thereto;
 - b. Bidder has conducted or obtained and has understood all examinations, investigations, explorations, tests, reports, and studies that pertain to the subsurface conditions, as-built conditions, underground facilities, and all other physical conditions at or contiguous to the Site or otherwise that may affect the cost, progress, performance, or furnishing of Work, as Bidder considers necessary for the performance or furnishing of Work at the Contract Sum, within the Contract Time, and in accordance with the other terms and conditions of Contract Documents, including specifically the provisions of the General Conditions; and no additional examinations, investigations,

explorations, tests, reports, studies, or similar information or data are or will be required by Bidder for such purposes;

- c. Bidder has correlated its knowledge and the results of all such observations, examinations, investigations, explorations, tests, reports, and studies with the terms and conditions of the Contract Documents;
- d. Bidder has given the District prompt written notice of all conflicts, errors, ambiguities, or discrepancies that it has discovered in or among the Contract Documents and the actual conditions, and the written resolution thereof by the District is acceptable to Bidder;
- e. Bidder has made a complete disclosure in writing to the District of all facts bearing upon any possible interest, direct or indirect, that Bidder believes any representative of the District or other officer or employee of the District presently has or will have in this Contract or in the performance thereof or in any portion of the profits thereof;
- f. Bidder must, prior to bidding, perform the work, investigations, research, and analysis required by this document and that Bidder represented in its Bid Form and Proposal and the Agreement that it performed prior to bidding. Contractor under this Contract is charged with all information and knowledge that a reasonable bidder would ascertain from having performed this required work, investigation, research, and analysis. Bid prices must include entire cost of all work "incidental" to completion of the Work.
- g. Conditions Shown on the Contract Documents: Information as to underground conditions, as-built conditions, or other conditions or obstructions, indicated in the Contract Documents, e.g., on Drawings or in Specifications, has been obtained with reasonable care, and has been recorded in good faith. However, District only warrants, and Contractor may only rely, on the accuracy of limited types of information.
 - (1) As to above-ground conditions or as-built conditions shown or indicated in the Contract Documents, there is no warranty, express or implied, or any representation express or implied, that such information is correctly shown or indicated. This information is verifiable by independent investigation and Contractor is required to make such verification as a condition to bidding. In submitting its Bid, Contractor shall rely on the results of its own independent investigation. In submitting its Bid, Contractor shall not rely on District-supplied information regarding above-ground conditions or as-built conditions.
 - (2) As to any subsurface condition shown or indicated in the Contract Documents, Contractor may rely only upon the general accuracy of actual reported depths, actual reported character of materials, actual reported soil types, actual reported water conditions, or actual obstructions shown or indicated. District is not responsible for the completeness of such information for bidding or construction; nor is

District responsible in any way for any conclusions or opinions of Contractor drawn from such information; nor is the District responsible for subsurface conditions that are not specifically shown (for example, District is not responsible for soil conditions in areas contiguous to areas where a subsurface condition is shown).

- h. Conditions Shown in Reports and Drawings Supplied for Informational Purposes: Reference is made to the document entitled Geotechnical Data, and the document entitled Existing Conditions, for identification of:
- (1) Subsurface Conditions: Those reports of explorations and tests of subsurface conditions at or contiguous to the Site that have been utilized by Architect in preparing the Contract Documents; and
 - (2) Physical Conditions: Those drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site that has been utilized by Architect in preparing the Contract Documents.
 - (3) These reports and drawings are **not** Contract Documents and, except for any "technical" data regarding subsurface conditions specifically identified in Geotechnical Data and Existing Conditions, and underground facilities data, Contractor may not in any manner rely on the information in these reports and drawings. Subject to the foregoing, Contractor must make its own independent investigation of all conditions affecting the Work and must not rely on information provided by District.
15. Any Bidder may withdraw its Bid by either written request actually received by the District prior to the scheduled closing time for the receipt of Bids and the District's public opening and reading of Bids. Bids may not be withdrawn for a period of sixty (60) days after the opening of bids, except as permitted pursuant to Public Contract Code section 5103.
16. Bidders may examine any available "as-built" drawings of previous work by giving District reasonable advance notice. District will not be responsible for accuracy of "as-built" drawings. The document entitled Existing Conditions applies to all supplied "as-built" drawings.
17. All questions about the meaning or intent of the Contract Documents are to be directed in writing to the District. Interpretations or clarifications considered necessary by the District in response to such questions will be issued in writing by Addenda emailed, faxed, mailed, or delivered to all parties recorded by the District as having received the Contract Documents. Questions received less than **THREE (3)** calendar days prior to the date for opening Bids may not be answered. Only questions answered by formal written Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.
18. Addenda may also be issued to modify other parts of the Contract Documents as deemed advisable by the District.

19. Each Bidder must acknowledge each Addendum in its Bid Form and Proposal by number or its Bid shall be considered non-responsive. Each Addendum shall be part of the Contract Documents. A complete listing of Addenda may be secured from the District.

20. Bids shall be based on products and systems specified in Contract Documents or listed by name in Addenda. Whenever in the Specifications any materials, process, or article is indicated or specified by grade, patent, or proprietary name, or by name of manufacturer, that Specification shall be deemed to be followed by the words "or equal." Bidder may, unless otherwise stated, offer any material, process, or article that shall be substantially equal or better in every respect to that so indicated or specified. The District is not responsible and/or liable in any way for a Contractor's damages and/or claims related, in any way, to that Contractor's basing its bid on any requested substitution that the District has not approved. Contractors and materials suppliers who submit requests for substitutions prior to the award of the Contract must do so in writing and in compliance with Public Contract Code section 3400. All requests must comply with the following:
 - a. District must receive any request for substitution a minimum of **TEN (10)** calendar days prior to bid opening.
 - b. Within 35 days after the date of the Notice of Award, the Successful Bidder shall submit data substantiating a request for substitution containing sufficient information to assess acceptability of product or system and impact on Project, including, without limitation, the requirements specified in the Special Conditions and the Specifications. Insufficient information shall be grounds for rejection of substitution.
 - c. Approved substitutions, if any, shall be listed in Addenda. District reserves the right not to act upon submittals of substitutions until after bid opening.
 - d. Substitutions may be requested after Contract has been awarded only if indicated in and in accordance with requirements specified in the Special Conditions and the Specifications.

21. All Bids must be sealed, and marked with name and address of the Bidder and the Project Number, Bid number, Bid package, and time of bid opening. Bids will be received as indicated in the Notice to Bidders.
 - a. Mark envelopes with the name of the Project.
 - b. Bids must be submitted to the **District Buyer Office, College of Marin Indian Valley Campus, 1800 Ignacio Blvd., Building 8 in AS Room 130, Novato, California, 94949** by date and time shown in the Notice to Bidders.
 - c. Bids must contain all documents as required herein.

22. Bids will be opened at or after the time indicated for receipt of bids.

23. This Contract may include alternates. Alternates are defined as alternate products, materials, equipment, systems, methods, or major elements of the construction that may, at the District's option and under terms established in the Contract and pursuant to section 20103.8 of the Public Contract Code, be selected for the Work.
24. The District shall award the Contract, if it awards it at all, to the lowest responsive responsible bidder based on the criteria as indicated in the Notice to Bidders. In the event two or more responsible bidders submit identical bids, the District shall select the Bidder to whom to award the Contract by lot.
25. Time for Completion: District may issue a Notice to Proceed within **THREE (3)** months from the date of the Notice of Award. Once Contractor has received the Notice to Proceed, Contractor shall complete the Work within the period of time indicated in the Contract Documents.
 - a. In the event that the District desires to postpone issuing the Notice to Proceed beyond this 3-month period, it is expressly understood that with reasonable notice to the Contractor, the District may postpone issuing the Notice to Proceed.
 - b. It is further expressly understood by Contractor that Contractor shall not be entitled to any claim of additional compensation as a result of the postponement of the issuance of the Notice to Proceed beyond a 3-month period. If the Contractor believes that a postponement of issuance of the Notice to Proceed will cause a hardship to the Contractor, the Contractor may terminate the Contract. Contractor's termination due to a postponement beyond this 3-month period shall be by written notice to District within **TEN (10)** calendar days after receipt by Contractor of District's notice of postponement.
 - c. It is further understood by the Contractor that in the event that Contractor terminates the Contract as a result of postponement by the District, the District shall only be obligated to pay Contractor for the Work that Contractor had performed at the time of notification of postponement and which the District had in writing authorized Contractor to perform prior to issuing a Notice to Proceed.
 - d. Should the Contractor terminate the Contract as a result of a notice of postponement, District shall have the authority to award the Contract to the next lowest responsive responsible bidder.
26. The Bidder to whom Contract is awarded shall execute and submit the following documents by 5:00 p.m. of the **SEVENTH (7th)** calendar day following the date of the Notice of Award. Failure to properly and timely submit these documents entitles District to reject the bid as non-responsive.
 - a. Agreement: To be executed by successful Bidder. Submit three (3) copies, each bearing an original signature.

- b. Escrow of Bid Documentation: This must include all required documentation. See the document Escrow of Bid Documentation for more information.
 - c. Performance Bond (100%): On the form provided in the Contract Documents and fully executed as indicated on the form. Submit two (2) copies, each bearing an original signature.
 - d. Payment Bond (100%) (Contractor's Labor and Material Bond): On the form provided in the Contract Documents and fully executed as indicated on the form. Submit two (2) copies, each bearing an original signature.
 - e. Insurance Certificates and Endorsements as required.
 - f. Workers' Compensation Certification.
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 - j. Hazardous Materials Certification.
 - k. Lead-Based Materials Certification.
 - l. Imported Materials Certification.
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27. Any bid protest by any Bidder regarding any other bid must be submitted in writing to the District, before 5:00 p.m. of the **FOURTH (4TH)** calendar day following bid opening.
- a. Only a Bidder who has actually submitted a bid, and who could be awarded the Contract if the bid protest is upheld, is eligible to submit a bid protest. Subcontractors are not eligible to submit bid protests. A Bidder may not rely on the bid protest submitted by another Bidder.
 - b. A bid protest must contain a complete statement of any and all bases for the protest and all supporting documentation. Materials submitted after the bid protest deadline will not be considered.
 - c. The protest must refer to the specific portions of all documents that form the basis for the protest.

- (1) Without limitation to other bases for protest, an inadvertent error in listing the California contractor license number on the Designated Subcontractors List shall not be grounds for filing a bid protest or grounds for considering the bid nonresponsive if the correct contractor's license number is submitted to the District within 24 hours after the bid opening and the corrected number corresponds with the submitted name and location for that subcontractor.
 - (2) Without limitation to other bases for protest, an inadvertent error listing an unregistered subcontractor shall not be grounds for filing a bid protest or grounds for considering the bid nonresponsive provided that any of the following apply:
 - (i) The subcontractor is registered prior to the bid opening.
 - (ii) The subcontractor is registered and has paid the penalty registration fee within 24 hours after the bid opening.
 - (iii) The subcontractor is replaced by another registered subcontractor pursuant to Public Contract Code section 4107.
 - d. The protest must include the name, address and telephone number of the person representing the protesting party.
 - e. The party filing the protest must concurrently transmit a copy of the protest and any attached documentation to all other parties with a direct financial interest that may be adversely affected by the outcome of the protest. Such parties shall include all other bidders or proposers who appear to have a reasonable prospect of receiving an award depending upon the outcome of the protest.
 - f. The procedure and time limits set forth in this paragraph are mandatory and are each bidder's sole and exclusive remedy in the event of bid protest. Failure to comply with these procedures shall constitute a waiver of any right to further pursue the bid protest, including filing a Government Code Claim or legal proceedings.
28. The bid proposals and other documents responding to the bid become the exclusive property of the District upon submittal to the District. At such time as the District issues the Notice of Intent to award the Contract pursuant to the Instructions for Bidders, all bid proposals and other documents submitted in response to the bid become a matter of public record and shall thereupon be considered public records, except for information contained in such bid proposals deemed to be Trade Secrets (as defined in California Civil Code §3426.1) and information provided in response to the District's Pre-Qualification Questionnaire, if applicable. A bidder that indiscriminately marks all or most of its bid proposal as exempt from disclosure as a public record, whether by the notations of "Trade Secret," "Confidential," "Proprietary," or otherwise, may result in render the bid proposal non-responsive and rejected. The District shall not be liable or responsible for the disclosure of such records, including those exempt from disclosure if disclosure is deemed required by

law, by an order of a Court of competent jurisdiction, or which occurs through inadvertence, mistake or negligence on the part of the District or its officers, employees or agents. At such time as bid proposals are deemed a matter of public record, pursuant to the above, any bidder or other party shall be afforded access for inspection and/or copying of such bid proposals, by request made to the District in conformity with the California Access to Public Records Act, California Government Code §§6250 - 6270. If the District is required to defend or otherwise respond to any action or proceeding wherein request is made for the disclosure of the contents of any portion of a bid proposal deemed exempt from disclosure hereunder, the bidder submitting the materials sought by such action or proceeding agrees to defend, indemnify and hold harmless the District in any action or proceeding from and against any liability, including without limitation attorneys' fees arising therefrom. The party submitting materials sought by any other party shall be solely responsible for the cost and defense in any action or proceeding seeking to compel disclosure of such materials; the District's sole involvement in any such action shall be that of a stakeholder, retaining the requested materials until otherwise ordered or directed by a court of competent jurisdiction.

29. District reserves the right to reject any or all bids, including without limitation the right to reject any or all nonconforming, non-responsive, unbalanced, or conditional bids, to re-bid, and to reject the bid of any bidder if District believes that it would not be in the best interest of the District to make an award to that bidder, whether because the bid is not responsive or the bidder is unqualified or of doubtful financial ability or fails to meet any other pertinent standard or criteria established by District. District also reserves the right to waive inconsequential deviations not involving price, time, or changes in the Work. For purposes of this paragraph, an "unbalanced bid" is one having nominal prices for some work items and/or enhanced prices for other work items.
30. Discrepancies between written words and figures, or words and numerals, will be resolved in favor of numerals or figures.
31. Prior to the award of Contract, District reserves the right to consider the responsibility of the Bidder. District may conduct investigations as District deems necessary to assist in the evaluation of any bid and to establish the responsibility, including, without limitation, qualifications and financial ability of Bidders, proposed subcontractors, suppliers, and other persons and organizations to perform and furnish the Work in accordance with the Contract Documents to District's satisfaction within the prescribed time.

END OF DOCUMENT



Last Date and Time questions can be received is
Date: 02/22/2018 Time: 11:00 A.M.

To: Marin Community College District 1800 Ignacio Blvd Novato, CA 94949	
Attention: Daniel Park	Email : dpark@gilbaneco.com Cc: mramirez@marin.edu

Bid Package #17/18 – MB10
Interim Classrooms - #I25-35612

Bid Question

From : Company _____ Attention: _____	Date: _____	Re: _____
Reference Drawing No. _____ Reference Detail(s) : _____	Reference Spec. Section _____ Reference Paragraph(s) : _____	
Question:		

Answer:

Answered By: _____	Date: _____
Firm: _____	

Question Included in Addendum No. _____ to Bid Package No. _____	By: _____ Date: _____
--	-----------------------

DOCUMENT 00 31 19

EXISTING CONDITIONS

1. Summary

This document describes existing conditions at or near the Project, and use of information available regarding existing conditions. This document is **not** part of the Contract Documents. See General Conditions for definition(s) of terms used herein.

2. Reports and Information on Existing Conditions

- a. Documents providing a general description of the Site and conditions of the Work may have been collected by Marin Community College District ("District"), its consultants, contractors, and tenants. These documents may include previous contracts, contract specifications, tenant improvement contracts, as-built drawings, utility drawings, and information regarding underground facilities.
- b. Information regarding existing conditions may be inspected at the District offices or the Construction Manager's offices, if any, and copies may be obtained at cost of reproduction and handling upon Bidder's agreement to pay for such copies. These reports, documents, and other information are **not** part of the Contract Documents.
- c. Information regarding existing conditions may also be included in the Project Manual, but shall **not** be considered part of the Contract Documents.
- d. Prior to commencing this Work, Contractor and the District's representative shall survey the Site to document the condition of the Site. Contractor will record the survey in digital videotape format and provide an electronic copy to the District within fourteen (14) days of the survey.
- e. Contractor may also document any pre-existing conditions in writing, provided that both the Contractor and the District's representative agree on said conditions and sign a memorandum documenting the same.
- f. The reports and other data or information regarding existing conditions and underground facilities at or contiguous to the Project are the following:
 - (1) Original Construction Drawings.

3. Use of Information

- a. Information regarding existing conditions was obtained only for use of District and its consultants, contractors, and tenants for planning and design and is **not** part of the Contract Documents.

- b. District does not warrant, and makes no representation regarding, the accuracy or thoroughness of any information regarding existing conditions. Bidder represents and agrees that in submitting a bid it is not relying on any information regarding existing conditions supplied by District.
- c. Under no circumstances shall District be deemed to warrant or represent existing above-ground conditions, as-built conditions, or other actual conditions, verifiable by independent investigation. These conditions are verifiable by Contractor by the performance of its own independent investigation that Contractor must perform as a condition to bidding and Contractor should not and shall not rely on this information or any other information supplied by District regarding existing conditions.
- d. Any information shown or indicated in the reports and other data supplied herein with respect to existing underground facilities at or contiguous to the Project may be based upon information and data furnished to District by the District's employees and/or consultants or builders of such underground facilities or others. District does not assume responsibility for the completeness of this information, and Bidder is solely responsible for any interpretation or conclusion drawn from this information.
- e. District shall be responsible only for the general accuracy of information regarding underground facilities, and only for those underground facilities that are owned by District, and only where Bidder has conducted the independent investigation required of it pursuant to the Instructions to Bidders, and discrepancies are not apparent.

4. Investigations/Site Examinations

- a. Before submitting a Bid, each Bidder is responsible for conducting or obtaining any additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and underground facilities) at or contiguous to the Site or otherwise, that may affect cost, progress, performance, or furnishing of Work or that relate to any aspect of the means, methods, techniques, sequences, or procedures of construction to be employed by Bidder and safety precautions and programs incident thereto or that Bidder deems necessary to determine its Bid for performing and furnishing the Work in accordance with the time, price, and other terms and conditions of Contract Documents.
- b. On request, District will provide each Bidder access to the Site to conduct such examinations, investigations, explorations, tests, and studies, as each Bidder deems necessary for submission of a Bid. Bidders must fill all holes and clean up and restore the Site to its former condition upon completion of its explorations, investigations, tests, and studies. Such investigations and Site examinations may be performed during any and all Site visits indicated in the Notice to Bidders and only under the provisions of the Contract Documents, including, but not limited to, proof of insurance and obligation to indemnify against claims arising from such work, and District's prior approval.

END OF DOCUMENT

DOCUMENT 00 41 13

BID FORM AND PROPOSAL

To: Governing Board of Marin Community College District ("District" or "Owner")

From: _____
(Proper Name of Bidder)

The undersigned declares that the Contract Documents including, without limitation, the Notice to Bidders and the Instructions to Bidders have been read and agrees and proposes to furnish all necessary labor, materials, and equipment to perform and furnish all work in accordance with the terms and conditions of the Contract Documents, including, without limitation, the Drawings and Specifications of Bid No. 17/18 MB10.

PROJECT: **I25-35612 – INTERIM CLASSROOMS**

("Project" or "Contract") and will accept in full payment for that Work the following total lump sum amount, all taxes included:

_____ dollars \$ _____
<i>BASE BID</i>

_____ dollars \$ _____
<i>ALLOWANCE #1</i>

_____ dollars \$ _____
<i>TOTAL BASE BID INCLUSIVE OF ALLOWANCE</i>

1. **Allowance #1.** The Bidder's Base Bid and each alternate shall include a ten percent (10%) allowance for unforeseen items.

The above allowance(s) shall only be allocated for unforeseen items relating to the Work. Contractor shall not bill for or be due any portion of these allowance(s) unless the District has identified specific work, Contractor has submitted a price for that work or the District has proposed a price for that work, the District has accepted the cost for that work, and the District has prepared a change order incorporating that work. Contractor hereby authorizes the District to execute a unilateral deductive change order at or near the end of the Project for all or any portion of the allowance(s) not allocated.

2. The undersigned has reviewed the Work outlined in the Contract Documents and fully understands the scope of Work required in this Proposal, understands the construction and project management function(s) is described in the Contract Documents, and that each Bidder who is awarded a contract shall be in fact a prime contractor, not a subcontractor, to the District, and agrees that its Proposal, if accepted by the District, will be the basis for the Bidder to enter into a contract with the District in accordance with the intent of the Contract Documents.
3. The undersigned has notified the District in writing of any discrepancies or omissions or of any doubt, questions, or ambiguities about the meaning of any of the Contract Documents, and has contacted the Construction Manager before bid date to verify the issuance of any clarifying Addenda.
4. The undersigned agrees to commence work under this Contract on the date established in the Contract Documents and to complete all work within the time specified in the Contract Documents.
5. The liquidated damages clause of the General Conditions and Agreement is hereby acknowledged.
6. It is understood that the District reserves the right to reject this bid and that the bid shall remain open to acceptance and is irrevocable for a period of ninety (90) days.
7. The following documents are attached hereto:
 - Bid Bond on the District's form or other security
 - Designated Subcontractors List
 - Site-Visit Certification
 - Noncollusion Declaration
 - Iran Contracting Act Certification **[IF CONTRACT VALUE IS \$1,000,000 OR MORE]**

8. Receipt and acceptance of the following addenda is hereby acknowledged:

No.____, Dated _____	No.____, Dated _____
No.____, Dated _____	No.____, Dated _____
No.____, Dated _____	No.____, Dated _____

- 9. Bidder acknowledges that the license required for performance of the Work is a **B or C-10** license.
- 10. The undersigned hereby certifies that Bidder is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the Work.
- 11. Bidder specifically acknowledges and understands that if it is awarded the Contract, Bidder will execute and deliver to the District within seven (7) calendar days after notification of award of the Contract the following documents: (a) the Agreement; (b) Certificates of Insurance evidencing all insurance coverages required under the Contract Documents; (c) the Performance Bond; (d) the Labor and Material Payment Bond; (e) the Certificate of Workers’ Compensation Insurance; and (f) the certifications listed in Section 28 of the Instructions to Bidders. Failure of the Bidder awarded the Contract to strictly comply with the preceding may result in the District’s rescission of the award of the Contract and forfeiture of the Bidder’s Bid Security. In such event, the District may, in its sole and exclusive discretion elect to award the Contract to the responsible Bidder submitting the next lowest Bid Proposal, or to reject all Bid Proposals. In addition, Bidder acknowledges and understands that if it is awarded the Contract, that it shall perform the Work of the Project while complying with all requirements of the Department of Industrial Relations [and with all requirements of the Project Stabilization Agreement].
- 12. The Bidder represents that it is competent, knowledgeable, and has special skills with respect to the nature, extent, and inherent conditions of the Work to be performed. Bidder further acknowledges that there are certain peculiar and inherent conditions existent in the construction of the Work that may create, during the Work, unusual or peculiar unsafe conditions hazardous to persons and property.
- 13. Bidder expressly acknowledges that it is aware of such peculiar risks and that it has the skill and experience to foresee and to adopt protective measures to adequately and safely perform the Work with respect to such hazards.
- 14. Bidder expressly acknowledges that it is aware that if a false claim is knowingly submitted (as the terms “claim” and “knowingly” are defined in the California False Claims Act, Cal. Gov. Code, §12650 et seq.), the District will be entitled to civil

remedies set forth in the California False Claim Act. It may also be considered fraud and the Contractor may be subject to criminal prosecution.

15. The undersigned Bidder certifies that it is, at the time of bidding, and shall be throughout the period of the contract, licensed by the State of California to do the type of work required under the terms of the Contract Documents and registered as a public works contractor with the Department of Industrial Relations. Bidder further certifies that it is regularly engaged in the general class and type of work called for in the Contract Documents.

Furthermore, Bidder hereby certifies to the District that all representations, certifications, and statements made by Bidder, as set forth in this bid form, are true and correct and are made under penalty of perjury.

Dated this _____ day of _____ 20 ____

Name of Bidder _____

Type of Organization _____

Signed by _____

Title of Signer _____

Address of Bidder _____

Taxpayer's Identification No. of Bidder _____

Telephone Number _____

Fax Number _____

E-mail _____ Web page _____

Contractor's License No(s): No.: _____ Class: _____ Expiration Date: _____

No.: _____ Class: _____ Expiration Date: _____

No.: _____ Class: _____ Expiration Date: _____

Public Works Contractor Registration No.: _____

If Bidder is a corporation, affix corporate seal.

Name of Corporation: _____

President: _____

Secretary: _____

Treasurer: _____

Manager: _____

END OF DOCUMENT

DOCUMENT 00 43 13

BID BOND

(Note: If Bidder is providing a bid bond as its bid security, Bidder must use this form, NOT a surety company form.)

KNOW ALL PERSONS BY THESE PRESENTS:

That the undersigned, as _____ as Principal ("Principal"),
and _____ as Surety ("Surety"),
a corporation organized and existing under and by virtue of the laws of the State of
California and authorized to do business as a surety in the State of California, are held and
firmly bound unto the Marin Community College District ("District") of County, State of
California as Obligee, in the sum of

_____ Dollars (\$ _____)

lawful money of the United States of America, for the payment of which sum well and truly
to be made, we, and each of us, bind ourselves, our heirs, executors, administrators,
successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that whereas the Principal has submitted a
bid to the District for all Work specifically described in the accompanying bid;

NOW, THEREFORE, if the Principal is awarded the Contract and, within the time and manner
required under the Contract Documents, after the prescribed forms are presented to
Principal for signature, enters into a written contract, in the prescribed form in accordance
with the bid, and files two bonds, one guaranteeing faithful performance and the other
guaranteeing payment for labor and materials as required by law, and meets all other
conditions to the contract between the Principal and the Obligee becoming effective, or if
the Principal shall fully reimburse and save harmless the Obligee from any damage
sustained by the Obligee through failure of the Principal to enter into the written contract
and to file the required performance and labor and material bonds, and to meet all other
conditions to the Contract between the Principal and the Obligee becoming effective, then
this obligation shall be null and void; otherwise, it shall be and remain in full force and
effect. The full payment of the sum stated above shall be due immediately if Principal fails
to execute the Contract within seven (7) days of the date of the District's Notice of Award to
Principal.

Surety, for value received, hereby stipulates and agrees that no change, extension of time,
alteration or addition to the terms of the Contract or the call for bids, or to the work to be
performed thereunder, or the specifications accompanying the same, shall in any way affect
its obligation under this bond, and it does hereby waive notice of any such change,
extension of time, alteration or addition to the terms of the Contract or the call for bids, or
to the work, or to the specifications.

In the event suit is brought upon this bond by the Obligee and judgment is recovered, the Surety shall pay all costs incurred by the Obligee in such suit, including a reasonable attorneys' fee to be fixed by the Court.

If the District awards the bid, the security of unsuccessful bidder(s) shall be returned within sixty (60) days from the time the award is made. Unless otherwise required by law, no bidder may withdraw its bid for ninety (90) days after the date of the bid opening.

IN WITNESS WHEREOF, this instrument has been duly executed by the Principal and Surety above named, on the _____ day of _____, 2017.

(Affix Corporate Seal)

Principal

By

(Affix Corporate Seal)

Surety

By

Name of California Agent of Surety

Address of California Agent of Surety

Telephone Number of California Agent of Surety

Bidder must attach Power of Attorney and Certificate of Authority for Surety and a Notarial Acknowledgment for all Surety's signatures. The California Department of Insurance must authorize the Surety to be an admitted Surety Insurer.

END OF DOCUMENT

DOCUMENT 00 43 36

DESIGNATED SUBCONTRACTORS LIST
(TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID)

PROJECT: **I25-35612 – INTERIM CLASSROOMS**

Bidder acknowledges and agrees that under Public Contract Code section 4100, et seq., it must clearly set forth below the name, location and California contractor license number of each subcontractor who will perform work or labor or render service to the Bidder in or about the construction of the Work or who will specially fabricate and install a portion of the Work according to detailed drawings contained in the plans and specifications in an amount in excess of one-half of one percent (0.5%) of Bidder’s total Bid and the kind of Work that each will perform. Vendors or suppliers of materials only do not need to be listed.

Bidder acknowledges and agrees that under Public Contract Code section 4100, et seq., if Bidder fails to list as to any portion of Work, or if Bidder lists more than one subcontractor to perform the same portion of Work, Bidder must perform that portion itself or be subjected to penalty under applicable law. In case more than one subcontractor is named for the same kind of Work, state the portion of the kind of Work that each subcontractor will perform.

If alternate bids are called for and Bidder intends to use subcontractors different from or in addition to those subcontractors listed for work under the base Bid, Bidder must list subcontractors that will perform Work in an amount in excess of one half of one percent (0.5%) of Bidder’s total Bid, including alternates.

If further space is required for the list of proposed subcontractors, attach additional sheets showing the required information, as indicated below.

Subcontractor Name: _____

CA Cont. Lic. #: _____ Location: _____

Portion of Work: _____

Subcontractor Name: _____

CA Cont. Lic. #: _____ Location: _____

Portion of Work: _____

Subcontractor Name: _____

CA Cont. Lic. #: _____ Location: _____

Portion of Work: _____

Subcontractor Name: _____

CA Cont. Lic. #: _____ Location: _____

Portion of Work: _____

Subcontractor Name: _____

CA Cont. Lic. #: _____ Location: _____

Portion of Work: _____

Subcontractor Name: _____

CA Cont. Lic. #: _____ Location: _____

Portion of Work: _____

Subcontractor Name: _____

CA Cont. Lic. #: _____ Location: _____

Portion of Work: _____

Subcontractor Name: _____

CA Cont. Lic. #: _____ Location: _____

Portion of Work: _____

Subcontractor Name: _____

CA Cont. Lic. #: _____ Location: _____

Portion of Work: _____

Subcontractor Name: _____

CA Cont. Lic. #: _____ Location: _____

Portion of Work: _____

Date: _____

Proper Name of Bidder: _____

Signature: _____

Print Name: _____

Title: _____

END OF DOCUMENT

DOCUMENT 00 45 01

SITE VISIT CERTIFICATION

TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID
IF SITE VISIT WAS MANDATORY

PROJECT: **I25-35612 – INTERIM CLASSROOMS**

Check option that applies:

_____ I certify that I visited the Site of the proposed Work and became fully acquainted with the conditions relating to construction and labor. I fully understand the facilities, difficulties, and restrictions attending the execution of the Work under contract.

_____ I certify that _____ (Bidder's representative) visited the Site of the proposed Work and became fully acquainted with the conditions relating to construction and labor. The Bidder's representative fully understood the facilities, difficulties, and restrictions attending the execution of the Work under contract.

Bidder fully indemnifies the Marin Community College School District, its Architect, its Engineer, its Construction Manager, and all of their respective officers, agents, employees, and consultants from any damage, or omissions, related to conditions that could have been identified during my visit and/or the Bidder's representative's visit to the Site.

I certify under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Date: _____

Proper Name of Bidder: _____

Signature: _____

Print Name: _____

Title: _____

END OF DOCUMENT

DOCUMENT 00 45 19

**NON-COLLUSION DECLARATION
TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID
Public Contract Code Section 7106**

The undersigned declares:

I am the _____ of _____, the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on _____
__[date], at _____[city], _____[state].

Date: _____

Proper Name of Bidder: _____

Signature: _____

Print Name: _____

Title: _____

END OF DOCUMENT

DOCUMENT 00 45 26

WORKERS' COMPENSATION CERTIFICATION

PROJECT/CONTRACT NO.: **125-35612 – INTERIM CLASSROOMS** between Marin Community College District ("District") and _____ ("Contractor" or "Bidder") ("Contract" or "Project").

Labor Code section 3700, in relevant part, provides:

Every employer except the State shall secure the payment of compensation in one or more of the following ways:

- a. By being insured against liability to pay compensation by one or more insurers duly authorized to write compensation insurance in this state; and/or
- b. By securing from the Director of Industrial Relations a certificate of consent to self-insure, which may be given upon furnishing proof satisfactory to the Director of Industrial Relations of ability to self-insure and to pay any compensation that may become due to his employees.

I am aware of the provisions of section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the Work of this Contract.

Date: _____

Proper Name of Contractor: _____

Signature: _____

Print Name: _____

Title: _____

(In accordance with Article Labor Code sections 1860 and 1861, the above certificate must be signed and filed with the awarding body prior to performing any Work under this Contract.)

END OF DOCUMENT

DOCUMENT 00 45 46.03

DRUG-FREE WORKPLACE CERTIFICATION

PROJECT/CONTRACT NO.: **125-35612 – INTERIM CLASSROOMS** between Marin Community College District (“District”) and _____ (“Contractor” or “Bidder”) (“Contract” or “Project”).

This Drug-Free Workplace Certification form is required from the successful Bidder pursuant to Government Code section 8350 et seq., the Drug-Free Workplace Act of 1990. The Drug-Free Workplace Act of 1990 requires that every person or organization awarded a contract or grant for the procurement of any property or service from any state agency must certify that it will provide a drug-free workplace by doing certain specified acts. In addition, the Act provides that each contract or grant awarded by a state agency may be subject to suspension of payments or termination of the contract or grant, and the contractor or grantee may be subject to debarment from future contracting, if the contracting agency determines that specified acts have occurred.

The District is not a “state agency” as defined in the applicable section(s) of the Government Code, but the District is a local agency and public school district under California law and requires all contractors on District projects to comply with the provisions and requirements of Government Code section 8350 et seq., the Drug-Free Workplace Act of 1990.

Contractor shall certify that it will provide a drug-free workplace by doing all of the following:

- a. Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited in the person’s or organization’s workplace and specifying actions which will be taken against employees for violations of the prohibition.
- b. Establishing a drug-free awareness program to inform employees about all of the following:
 - (1) The dangers of drug abuse in the workplace.
 - (2) The person’s or organization’s policy of maintaining a drug-free workplace.
 - (3) The availability of drug counseling, rehabilitation, and employee-assistance programs.
 - (4) The penalties that may be imposed upon employees for drug abuse violations.
- c. Requiring that each employee engaged in the performance of the contract or grant be given a copy of the statement required above, and that, as a condition of employment on the contract or grant, the employee agrees to abide by the terms of the statement.

I, the undersigned, agree to fulfill the terms and requirements of Government Code section 8355 listed above and will publish a statement notifying employees concerning (a) the

prohibition of controlled substance at the workplace, (b) establishing a drug-free awareness program, and (c) requiring that each employee engaged in the performance of the Contract be given a copy of the statement required by section 8355(a), and requiring that the employee agree to abide by the terms of that statement.

I also understand that if the District determines that I have either (a) made a false certification herein, or (b) violated this certification by failing to carry out the requirements of section 8355, that the Contract awarded herein is subject to termination, suspension of payments, or both. I further understand that, should I violate the terms of the Drug-Free Workplace Act of 1990, I may be subject to debarment in accordance with the requirements of the aforementioned Act.

I acknowledge that I am aware of the provisions of Government Code section 8350 et seq. and hereby certify that I will adhere to the requirements of the Drug-Free Workplace Act of 1990.

Date: _____

Proper Name of Contractor: _____

Signature: _____

Print Name: _____

Title: _____

END OF DOCUMENT

DOCUMENT 00 45 46.04

TOBACCO-FREE ENVIRONMENT CERTIFICATION

PROJECT/CONTRACT NO.: **125-35612 – INTERIM CLASSROOMS** between Marin Community College District (“District”) and _____ (“Contractor” or “Bidder”) (“Contract” or “Project”).

This Tobacco-Free Environment Certification form is required from the successful Bidder.

Pursuant to, without limitation, 20 U.S.C section 6083, Labor Code section 6400 et seq., Health & Safety Code section 104350 et seq. and District Board Policies, all District sites, including the Project site, are tobacco-free environments. Smoking and the use of tobacco products by all persons is prohibited on or in District property. District property includes school buildings, school grounds, school owned vehicles and vehicles owned by others while on District property.

I acknowledge that I am aware of the District’s policy regarding tobacco-free environments at District sites, including the Project site and hereby certify that I will adhere to the requirements of that policy and not permit any of my firm’s employees, agents, subcontractors, or my firm’s subcontractors’ employees or agents to use tobacco and/or smoke on the Project site.

Date: _____

Proper Name of Contractor: _____

Signature: _____

Print Name: _____

Title: _____

END OF DOCUMENT

DOCUMENT 00 45 46.05

HAZARDOUS MATERIALS CERTIFICATION

PROJECT/CONTRACT NO.: **I25-35612 – INTERIM CLASSROOMS** between Marin Community College District (“District”) and _____ (“Contractor” or “Bidder”) (“Contract” or “Project”).

1. Contractor hereby certifies that no Asbestos, or Asbestos-Containing Materials, polychlorinated biphenyl (PCB), or any material listed by the federal or state Environmental Protection Agency or federal or state health agencies as a hazardous material, or any other material defined as being hazardous under federal or state laws, rules, or regulations (“New Hazardous Material”), shall be furnished, installed, or incorporated in any way into the Project or in any tools, devices, clothing, or equipment used to affect any portion of Contractor's work on the Project for District.
2. Contractor further certifies that it has instructed its employees with respect to the above-mentioned standards, hazards, risks, and liabilities.
3. Asbestos and/or asbestos-containing material shall be defined as all items containing fibrous forms of various hydrated minerals, but not limited to chrysotile, crocidolite, amosite, fibrous tremolite, fibrous anthophyllite, and fibrous actinolite. Any or all material containing greater than one-tenth of one percent (0.1%) asbestos by weight shall be defined as asbestos-containing material.
4. Any disputes involving the question of whether or not material is New Hazardous Material shall be settled by electron microscopy or other appropriate and recognized testing procedure, at the District’s determination. The costs of any such tests shall be paid by Contractor if the material is found to be New Hazardous Material.
5. All Work or materials found to be New Hazardous Material or Work or material installed with equipment containing “New Hazardous Material” will be immediately rejected and this Work will be removed at Contractor's expense at no additional cost to the District.
6. Contractor has read and understood the document Hazardous Materials Procedures & Requirements, and shall comply with all the provisions outlined therein.

Date: _____

Proper Name of Contractor: _____

Signature: _____

Print Name: _____

Title: _____

END OF DOCUMENT

DOCUMENT 00 45 46.06

LEAD-BASED MATERIALS CERTIFICATION

PROJECT/CONTRACT NO.: **I25-35612 – INTERIM CLASSROOMS** between Marin Community College District (“District”) and _____ (“Contractor” or “Bidder”) (“Contract” or “Project”).

This certification provides notice to the Contractor that:

- (1) Contractor's work may disturb lead-containing building materials.
- (2) Contractor shall notify the District if any work may result in the disturbance of lead-containing building materials.
- (3) Contractor shall comply with the Renovation, Repair and Painting Rule, if lead-based paint is disturbed in a six-square-foot or greater area indoors or a 20-square-foot or greater area outdoors.

1. Lead as a Health Hazard

Lead poisoning is recognized as a serious environmental health hazard facing children today. Even at low levels of exposure, much lower than previously believed, lead can impair the development of a child's central nervous system, causing learning disabilities, and leading to serious behavioral problems. Lead enters the environment as tiny lead particles and lead dust disburse when paint chips, chalks, peels, wears away over time, or is otherwise disturbed. Ingestion of lead dust is the most common pathway of childhood poisoning; lead dust gets on a child's hands and toys and then into a child's mouth through common hand-to-mouth activity. Exposures may result from construction or remodeling activities that disturb lead paint, from ordinary wear and tear of windows and doors, or from friction on other surfaces.

Ordinary construction and renovation or repainting activities carried out without lead-safe work practices can disturb lead-based paint and create significant hazards. Improper removal practices, such as dry scraping, sanding, or water blasting painted surfaces, are likely to generate high volumes of lead dust.

Because the Contractor and its employees will be providing services for the District, and because the Contractor's work may disturb lead-containing building materials, CONTRACTOR IS HEREBY NOTIFIED of the potential presence of lead-containing materials located within certain buildings utilized by the District. All school buildings built prior to 1978 are presumed to contain some lead-based paint until sampling proves otherwise.

2. Overview of California Law

Education Code section 32240 et seq. is known as the Lead-Safe Schools Protection Act. Under this act, the Department of Health Services is to conduct a sample survey of schools in the State of California for the purpose of developing risk factors to predict lead contamination in public schools. (Ed. Code, § 32241.)

Any school that undertakes any action to abate existing risk factors for lead is required to utilize trained and state-certified contractors, inspectors, and workers. (Ed. Code, § 32243, subd. (b).) Moreover, lead-based paint, lead plumbing, and solders, or other potential sources of lead contamination, shall not be utilized in the construction of any new school facility or the modernization or renovation of any existing school facility. (Ed. Code, § 32244.)

Both the Federal Occupational Safety and Health Administration ("Fed/OSHA") and the California Division of Occupational Safety and Health ("Cal/OSHA") have implemented safety orders applicable to all construction work where a contractor's employee may be occupationally exposed to lead.

The OSHA Regulations apply to all construction work where a contractor's employee may be occupationally exposed to lead. The OSHA Regulations contain specific and detailed requirements imposed on contractors subject to that regulation. The OSHA Regulations define construction work as work for construction, alteration, and/or repair, including painting and decorating. It includes, but is not limited to, the following:

- a. Demolition or salvage of structures where lead or materials containing lead are present;
- b. Removal or encapsulation of materials containing lead;
- c. New construction, alteration, repair, or renovation of structures, substrates, or portions thereof, that contain lead, or materials containing lead;
- d. Installation of products containing lead;
- e. Lead contamination/emergency cleanup;
- f. Transportation, disposal, storage, or containment of lead or materials containing lead on the site or location at which construction activities are performed; and
- g. Maintenance operations associated with the construction activities described in the subsection.

Because it is assumed by the District that all painted surfaces (interior as well as exterior) within the District contain some level of lead, it is imperative that the Contractor, its workers and subcontractors fully and adequately comply with all applicable laws, rules and regulations governing lead-based materials (including title 8, California Code of Regulations, section 1532.1).

Contractor shall notify the District if any Work may result in the disturbance of lead-containing building materials. Any and all Work that may result in the disturbance of lead-containing building materials shall be coordinated through the District. A signed copy of this Certification shall be on file prior to beginning Work on the Project, along with all current insurance certificates.

3. Renovation, Repair and Painting Rule, Section 402(c)(3) of the Toxic Substances Control Act

The EPA requires lead safe work practices to reduce exposure to lead hazards created by renovation, repair and painting activities that disturb lead-based paint. Pursuant to the Renovation, Repair and Painting Rule (RRP), renovations in homes, childcare facilities, and schools built prior to 1978 must be conducted by certified renovations firms, using renovators with training by a EPA-accredited training provider, and fully and adequately complying with all applicable laws, rules and regulations governing lead-based materials, including those rules and regulations appearing within title 40 of the Code of Federal Regulations as part 745 (40 CFR 745).

The RRP requirements apply to all contractors who disturb lead-based paint in a six-square-foot or greater area indoors or a 20-square-foot or greater area outdoors. If a DPH-certified inspector or risk assessor determines that a home constructed before 1978 is lead-free, the federal certification is not required for anyone working on that particular building.

4. Contractor's Liability

If the Contractor fails to comply with any applicable laws, rules, or regulations, and that failure results in a site or worker contamination, the Contractor will be held solely responsible for all costs involved in any required corrective actions, and shall defend, indemnify, and hold harmless the District, pursuant to the indemnification provisions of the Contract, for all damages and other claims arising therefrom.

If lead disturbance is anticipated in the Work, only persons with appropriate accreditation, registrations, licenses, and training shall conduct this Work.

It shall be the responsibility of the Contractor to properly dispose of any and all waste products, including, but not limited to, paint chips, any collected residue, or any other visual material that may occur from the prepping of any painted surface. It will be the responsibility of the Contractor to provide the proper disposal of any hazardous waste by a certified hazardous waste hauler. This company shall be registered with the Department of Transportation (DOT) and shall be able to issue a current manifest number upon transporting any hazardous material from any school site within the District.

The Contractor shall provide the District with any sample results prior to beginning Work, during the Work, and after the completion of the Work. The District may request to examine, prior to the commencement of the Work, the lead training records of each employee of the Contractor.

THE CONTRACTOR HEREBY ACKNOWLEDGES, UNDER PENALTY OF PERJURY, THAT IT:

1. HAS RECEIVED NOTIFICATION OF POTENTIAL LEAD-BASED MATERIALS ON THE OWNER'S PROPERTY;
2. IS KNOWLEDGEABLE REGARDING AND WILL COMPLY WITH ALL APPLICABLE LAWS, RULES, AND REGULATIONS GOVERNING WORK WITH, AND DISPOSAL, OF LEAD.

THE UNDERSIGNED WARRANTS THAT HE/SHE HAS THE AUTHORITY TO SIGN ON BEHALF OF AND BIND THE CONTRACTOR. THE DISTRICT MAY REQUIRE PROOF OF SUCH AUTHORITY.

Date: _____

Proper Name of Contractor: _____

Signature: _____

Print Name: _____

Title: _____

END OF DOCUMENT

DOCUMENT 00 45 46.07

IMPORTED MATERIALS CERTIFICATION

PROJECT/CONTRACT NO.: **I25-35612 – INTERIM CLASSROOMS** between Marin Community College District ("District") and _____ ("Contractor" or "Bidder") ("Contract" or "Project").

This form shall be executed by all entities that, in any way, provide or deliver and/or supply any soils, aggregate, or related materials ("Fill") to the Project Site. All Fill shall satisfy all requirements of any environmental review of the Project performed pursuant to the statutes and guidelines of the California Environmental Quality Act, section 21000 et seq. of the Public Resources Code ("CEQA"), and all requirements of section 17210 et seq. of the Education Code, including requirements for a Phase I environmental assessment acceptable to the State of California Department of Education and Department of Toxic Substances Control.

To the furthest extent permitted by California law, the indemnification provisions in the Contract Documents apply to, without limitation, any claim(s) connected with providing, delivering, and/or supplying Fill.

Certification of: Delivery Firm/Transporter Supplier Manufacturer
 Wholesaler Broker Retailer
 Distributor Other _____

Type of Entity Corporation General Partnership
 Limited Partnership Limited Liability Company
 Sole Proprietorship Other _____

Name of firm ("Firm"): _____

Mailing address: _____

Addresses of branch office used for this Project: _____

If subsidiary, name and address of parent company: _____

By my signature below, I hereby certify that I am aware of section 25260 of the Health and Safety Code and the sections referenced therein regarding the definition of hazardous material. I further certify on behalf of the Firm that all soils, aggregates, or related materials provided, delivered, and/or supplied or that will be provided, delivered, and/or supplied by this Firm to the Project Site are free of any and all hazardous material as defined in section 25260 of the Health and Safety Code. I further certify that I am authorized to make this certification on behalf of the Firm.

Date: _____

Proper Name of Firm: _____

Signature: _____

Print Name: _____

Title: _____

END OF DOCUMENT

DOCUMENT 00 45 46.08

SEX OFFENDER REGISTRATION ACT CERTIFICATION

PROJECT/CONTRACT NO.: **I25-35612 – INTERIM CLASSROOMS** between the Marin Community College District ("District") and _____ ("Contractor" or "Bidder") ("Contract" or "Project").

This certification provides notice to the Contractor that:

- Penal Code section 290.01 requires every person required to register pursuant to sections 290 to 290.009, inclusive, of the Sex Offender Registration Act who is carrying on a vocation at the community college for more than fourteen (14) days, or for an aggregate period exceeding thirty (30) days in a calendar year, shall, in addition to the registration required by the Sex Offender Registration Act, register with the campus police department within five working days of commencing employment at that community college on a form as may be required by the Department of Justice. The terms "employed or carries on a vocation" include employment whether or not financially compensated, volunteered, or performed for government or educational benefit.
- If the community college has no campus police department, the registrant shall instead register with the police of the city in which the campus is located or the sheriff of the county in which the campus is located if the campus is located in an unincorporated area or in a city that has no police department, on a form as may be required by the Department of Justice.
- The registrant shall also notify the campus police department within five (5) working days of ceasing to be employed, or ceasing to carry on a vocation, at the community college.

Contractor hereby acknowledges, under penalty of perjury, that it is aware of the provisions of section 290.01 of the Penal Code, and it will provide notice of the above provisions to all of its employees, subcontractors, and employees of subcontractors regardless of whether they are designated as employees or acting as independent contractors of the Contractor at least five (5) working days before commencing the performance of the Work of this Contract.

THE UNDERSIGNED WARRANTS THAT HE/SHE HAS THE AUTHORITY TO SIGN ON BEHALF OF AND BIND THE CONTRACTOR. THE DISTRICT MAY REQUIRE PROOF OF SUCH AUTHORITY.

Date: _____

Proper Name of Contractor: _____

Signature: _____

Print Name: _____

Title: _____

END OF DOCUMENT

DOCUMENT 00 45 46.11

IRAN CONTRACTING ACT CERTIFICATION
(Public Contract Code sections 2202-2208)

PROJECT/CONTRACT NO.: **125-35612 – INTERIM CLASSROOMS** between Marin Community College District (“District”) and _____ (“Contractor” or “Bidder”) (“Contract” or “Project”).

Prior to bidding on or submitting a proposal for a contract for goods or services of \$1,000,000 or more to the District, the Bidder must either: a) certify it is **not** on the current list of persons engaged in investment activities in Iran created by the California Department of General Services (“DGS”) pursuant to Public Contract Code section 2203(b) and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS; or b) demonstrate it has been exempted from the certification requirement for that solicitation or contract pursuant to Public Contract Code section 2203(c) or (d).

To comply with this requirement, please insert your vendor or financial institution name and Federal ID Number (if available) and complete **one** of the options below. Please note: California law establishes penalties for providing false certifications, including civil penalties equal to the greater of \$250,000 or twice the amount of the contract for which the false certification was made; contract termination; and three-year ineligibility to bid on contracts. (Public Contract Code section 2205.)

OPTION #1 - CERTIFICATION

I, the official named below, certify I am duly authorized to execute this certification on behalf of the vendor/financial institution identified below, and the vendor/financial institution identified below is **not** on the current list of persons engaged in investment activities in Iran created by DGS and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person/vendor, for 45 days or more, if that other person/vendor will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

<i>Vendor Name/Financial Institution (Printed)</i>		<i>Federal ID Number (or n/a)</i>
<i>By (Authorized Signature)</i>		
<i>Printed Name and Title of Person Signing</i>		
<i>Date Executed</i>	<i>Executed in</i>	

OPTION #2 – EXEMPTION

Pursuant to Public Contract Code sections 2203(c) and (d), a public entity may permit a vendor/financial institution engaged in investment activities in Iran, on a case-by-case basis, to be eligible for, or to bid on, submit a proposal for, or to enter into or to renew, a contract for goods and services.

If you have obtained an exemption from the certification requirement under the Iran Contracting Act, please fill out the information below, and attach documentation demonstrating the exemption approval.

<i>Vendor Name/Financial Institution (Printed)</i>	<i>Federal ID Number (or n/a)</i>
<i>By (Authorized Signature)</i>	
<i>Printed Name and Title of Person Signing</i>	<i>Date Executed</i>

END OF DOCUMENT

DOCUMENT 00 45 90

POST BID INTERVIEW

PART 1 – GENERAL

1.01 SUMMARY

If requested by the District, this Section requires the apparent low bidder to attend and participate in a Post Bid Interview with the Construction Manager, prior to award of any contract by the District. The Post Bid Interview will be scheduled by the CONSTRUCTION Manager within three (3) calendar days after the date of bid.

1.02 REQUIRED ATTENDANCE

- A. Duly authorized representatives of the apparent low bidder are required to attend the Post Bid Interview, in person, and shall bring those members of their team limited to three (3) people who will occupy key positions on the Project such as Project Superintendents, Project Managers, Project Executives so that the District interviews individuals who will work on the Project. The apparent low bidder shall not bring marketing personnel.
- B. One authorized representative of the apparent low bidder must have signatory authority on behalf of the apparent low bidder.
- C. Failure to attend the Post Bid Interview will be considered just cause for the District to reject the Bid.

1.03 POST BID INTERVIEW PROCEDURE

- A. The Construction Manager will review the Bid with the attendees.
- B. The Construction Manager will review the Contract Documents with the attendees, including but not limited to:
 - (1) Insurance
 - (2) Bonding
 - (3) Addenda
 - (4) Pre-Bid Clarifications
 - (5) Scope of Work
 - (6) Bid Packages Descriptions
 - (7) Bid Alternates
 - (8) The Contract Plans

- (9) The Contract Specifications
- (10) The Project Schedule and Schedule Requirements
- (11) Critical Dates Requirement for Other Bid Packages
- (12) Prevailing Wage Requirements
- (13) Liquidated Damages
- (14) Required Documentation for Contract Administration
- (15) Contract Coordination Requirements

1.04 POST BID INTERVIEW DOCUMENTATION

The Construction Manager will document the Post Bid Interview on the form attached to this Section. Both the Apparent Low Bidder and the Construction Manager are required to sign the Post Bid Interview Documentation.

POST BID INTERVIEW

CONSTRUCTION MANAGER

Daniel Park
Gilbane Building Company
1800 Ignacio Blvd.
Novato, CA 94949
415-883-2211 ext. 8141

BIDDER: _____

DATE: _____ TIME: _____ PHONE # _____

I. INTRODUCTIONS:

A. Present	_____	_____
	CONTRACTOR	CONTRACTOR
	_____	_____
	[CM]	[CM]

II. PROPOSED CONTRACT: _____

III. PURPOSE OF INTERVIEW IS TO ASSURE:

- | | | | |
|----|--|-----|----|
| A. | Do you acknowledge submission of a complete and accurate bid? | Yes | No |
| B. | Do you acknowledge the Bid Document submittal timelines after NOA and NTP and can you meet those timelines? | Yes | No |
| C. | Do you acknowledge the requirements for the escrow of bid documents? | Yes | No |
| D. | Do you acknowledge and understand the Project is subject to a Project Stabilization Agreement? (if applicable) | Yes | No |

IV. CONTRACTUAL REQUIREMENTS:

- | | | | |
|----|--|-----|----|
| A. | Do you understand you are a prime contractor? | Yes | No |
| B. | Can you meet specified insurance requirements? | Yes | No |
| 1. | Does any of your policies that require Additional Insured endorsements exceed the minimum coverage requirements? | Yes | No |
| 2. | Are you requesting that the District accept an Umbrella or | | |

- Excess Liability Insurance Policy to meet the policy limit? Yes No
3. Will there be a gap between the per occurrence amount of any underlying policy and the start of the coverage under the Umbrella or Excess Liability Insurance Policy? Yes No
- C. Will you provide the Performance, and a Labor and Material Bond for 100% of the Contract Price as stipulated? Yes No
1. Cost for bond: _____ %
2. Is the cost of your bond in your base bid? Yes No
3. Is your surety licensed is issue bonds in California? Yes No
- D. Do you understand and agree the Bid requires liquidated damages? Yes No
- V. SCOPE OF WORK:
- A. Acknowledged Receipt of Addenda #1-___ Yes No
- B. Are the costs for addenda items included in your bid? (if applicable) Yes No
- C. Do you have a complete understanding of your Scope of Work under the proposed Agreement? Yes No
- D. You have re-reviewed the documents and understand the Scope of the Work. Are there any items that require clarification? Yes No
- If yes, please identify them.
1. _____

2. _____

3. _____

4. _____

5. _____

- Is (are) the cost(s) for above items? Yes No
- C. Review bid alternative (if applicable) #1-____
- D. Are the plans and specifications clear and understandable to your satisfaction? Yes No

VI. SCHEDULE:

- A. Do you acknowledge and agree to the stipulated completion dates and milestones in the contract? Yes No
1. Will you provide a detailed construction schedule to _____ within the required ten (10) days, per the contract? Yes No
2. It is understood that the Project schedule is critical and that that weekend and overtime work may be required to meet the milestones. Yes No
3. It is understood that if rain does occur, then all dewatering and And protection of work is required, per the contract. Yes No

If not, what must change and why? _____

- B. Identify critical materials, deliveries, long lead items and other dependencies, including Owner Furnished items that could affect the completion of your work.
1. _____
2. _____
3. _____
4. _____
5. _____

VII. CONTRACTOR COMMENTS/SUGGESTIONS:

1. _____
2. _____
3. _____

4. _____

5. _____

VIII. CONTRACTOR

You agree the information contained herein is part of your contractual obligations. Your signature acknowledges your agreement to perform all Work in the Contract Documents, and that costs for all Work are included in your bid.

The foregoing information is true and accurate, and I am authorized to sign as an officer of the company I am representing.

[Company Name]

Signature _____ Title: _____

Date: _____

IX. CONSTRUCTION MANAGER

Signature _____ Title: _____

Date: _____

Title of Document: POST BID INTERVIEW

Number of Pages: _____

Date of Document: _____

END OF DOCUMENT

DOCUMENT 00 51 00

NOTICE OF AWARD

Dated: _____ 20__

To: _____
(Contractor)

To: _____
(Address)

From: Governing Board ("Board") of Marin Community College District ("District" or "Owner")

PROJECT: **I25-35612 – INTERIM CLASSROOMS**

("Project" or "Contract").

Contractor has been awarded the referenced Contract on _____, 20__,

by action of the District's Board

The Contract Price is _____ Dollars (\$ _____)

One (1) copy of each of the Contract Documents including Drawings accompany this Notice of Award. Additional electronic sets of the Drawings will be available separately.

You must comply with the following conditions precedent within **SEVEN (7)** calendar days of the date of this Notice of Award.

The Bidder to whom Contract is awarded shall execute and submit the following documents by 5:00 p.m. of the **SEVENTH (7th)** calendar day following the date of the Notice of Award.

- a. Agreement: To be executed by successful Bidder. Submit four (4) copies, each bearing an original signature.
- b. Escrow of Bid Documentation: This must include all required documentation. See the document Escrow of Bid Documentation for more information.
- c. Performance Bond (100%): On the form provided in the Contract Documents and fully executed as indicated on the form.
- d. Payment Bond (Contractor's Labor & Material Bond) (100%): On the form provided in the Contract Documents and fully executed as indicated on the form.
- e. Insurance Certificates and Endorsements as required.
- f. Workers' Compensation Certification.

- g. Prevailing Wage and Related Labor Requirements Certification.
- h. Drug-Free Workplace Certification.
- i. Tobacco-Free Environment Certification.
- j. Hazardous Materials Certification.
- k. Lead-Based Materials Certification.
- l. Sex Offender Registration Act Certification
- m. Imported Materials Certification.
- n. Business Enterprise Declaration
- o. W-9

Failure to comply with these conditions within the time specified will entitle District to consider your bid abandoned, to annul this Notice of Award, and to declare your Bid Security forfeited, as well as any other rights the District may have against the Contractor.

After you comply with those conditions, District will return to you one fully signed counterpart of the Agreement.

MARIN COMMUNITY COLLEGE SCHOOL DISTRICT

BY: _____

NAME: _____

TITLE: _____

END OF DOCUMENT

DOCUMENT 00 53 00

AGREEMENT

THIS AGREEMENT IS MADE AND ENTERED INTO THIS _____ DAY OF _____, 20____, by and between the Marin Community College District ("District") and _____ ("Contractor") ("Agreement").

WITNESSETH: That the parties hereto have mutually covenanted and agreed, and by these presents do covenant and agree with each other, as follows:

- 1. The Work:** Contractor agrees to furnish all tools, equipment, apparatus, facilities, labor, and material necessary to perform and complete in a good and workmanlike manner, the work of the following project:

PROJECT: **I25-35612 – INTERIM CLASSROOMS**

("Project" or "Contract" or "Work")

It is understood and agreed that the Work shall be performed and completed as required in the Contract Documents including, without limitation, the Drawings and Specifications and submission of all documents required to secure funding or by the Division of the State Architect for close-out of the Project, under the direction and supervision of, and subject to the approval of, the District or its authorized representative.

- 2. The Contract Documents:** The complete Contract consists of all Contract Documents as defined in the General Conditions and incorporated herein by this reference. Any and all obligations of the District and Contractor are fully set forth and described in the Contract Documents. All Contract Documents are intended to cooperate so that any Work called for in one and not mentioned in the other or vice versa is to be executed the same as if mentioned in all Contract Documents.

- 3. Interpretation of Contract Documents:** Should any question arise concerning the intent or meaning of Contract Documents, including the Drawings or Specifications, the question shall be submitted to the District for interpretation. If a conflict exists in the Contract Documents, modifications, beginning with the most recent, shall control over this Agreement (if any), which shall control over the Special Conditions, which shall control over any Supplemental Conditions, which shall control over the General Conditions, which shall control over the remaining Division 0 documents, which shall control over Division 1 Documents which shall control over Division 2 through Division 18 documents, which shall control over figured dimensions, which shall control over large-scale drawings, which shall control over small-scale drawings. In no case shall a document calling for lower quality and/or quantity material or workmanship control. The decision of the District in the matter shall be final.

4. **Time for Completion:** It is hereby understood and agreed that the work under this contract shall be completed within Forty-five (45) consecutive calendar days ("Contract Time") from the date specified in the District's Notice to Proceed.
5. **Completion-Extension of Time:** Should the Contractor fail to complete this Contract, and the Work provided herein, within the time fixed for completion, due allowance being made for the contingencies provided for herein, the Contractor shall become liable to the District for all loss and damage that the District may suffer on account thereof. The Contractor shall coordinate its work with the Work of all other contractors. The District shall not be liable for delays resulting from Contractor's failure to coordinate its Work with other contractors in a manner that will allow timely completion of Contractor's Work. Contractor shall be liable for delays to other contractors caused by Contractor's failure to coordinate its Work with the work of other contractors.
6. **Liquidated Damages:** Time is of the essence for all work under this Agreement. It is hereby understood and agreed that it is and will be difficult and/or impossible to ascertain and determine the actual damage that the District will sustain in the event of and by reason of Contractor's delay; therefore, Contractor agrees that it shall pay to the District the sum of **Five Hundred** dollars (**\$500.00/DAY**) per day as liquidated damages for each and every day's delay beyond the time herein prescribed in finishing the Work.

It is hereby understood and agreed that this amount is not a penalty.

In the event that any portion of the liquidated damages is not paid to the District, the District may deduct that amount from any money due or that may become due the Contractor under this Agreement. The District's right to assess liquidated damages is as indicated herein and in the General Conditions.

The time during which the Contract is delayed for cause as hereinafter specified may extend the time of completion for a reasonable time as the District may grant. This provision does not exclude the recovery of damages for delay by either party under other provisions in the Contract Documents.

7. **Loss Or Damage:** The District and its authorized representatives shall not in any way or manner be answerable or suffer loss, damage, expense, or liability for any loss or damage that may happen to the Work, or any part thereof, or in or about the same during its construction and before acceptance, and the Contractor shall assume all liabilities of every kind or nature arising from the Work, either by accident, negligence, theft, vandalism, or any cause whatever; and shall hold the District and its authorized representatives harmless from all liability of every kind and nature arising from accident, negligence, or any cause whatever.
8. **Insurance and Bonds:** Before commencing the Work, Contractor shall provide all required certificates of insurance, and payment and performance bonds as evidence thereof.

- 9. Prosecution of Work:** If the Contractor should neglect to prosecute the Work properly or fail to perform any provisions of this contract, the District, may, pursuant to the General Conditions and without prejudice to any other remedy it may have, make good such deficiencies and may deduct the cost thereof from the payment then or thereafter due the Contractor.
- 10. Authority of Architect, Project Inspector, and DSA:** Contractor hereby acknowledges that the Architect(s), the Project Inspector(s), and the Division of the State Architect have authority to approve and/or stop Work if the Contractor's Work does not comply with the requirements of the Contract Documents, Title 24 of the California Code of Regulations, and all applicable laws. The Contractor shall be liable for any delay caused by its non-compliant Work.
- 11. Assignment of Contract:** Neither the Contract, nor any part thereof, nor any moneys due or to become due thereunder, may be assigned by the Contractor without the written approval of the District, nor without the written consent of the Surety on the Contractor's Performance Bond (the "Surety"), unless the Surety has waived in writing its right to notice of assignment.
- 12. Classification of Contractor's License:** Contractor hereby acknowledges that it currently holds valid Type _____ Contractor's license(s) issued by the State of California, Contractor's State Licensing Board, in accordance with division 3, chapter 9, of the Business and Professions Code and in the classification called for in the Contract Documents.
- 13. Registration as Public Works Contractor:** The Contractor and all Subcontractors currently are registered as public works contractors with the Department of Industrial Relations, State of California, in accordance with Labor Code section 1771.4.
- 14. Payment of Prevailing Wages:** The Contractor and all Subcontractors shall pay all workers on all Work performed pursuant to this Contract not less than the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work as determined by the Director of the Department of Industrial Relations, State of California, for the type of work performed and the locality in which the work is to be performed within the boundaries of the District, pursuant to sections 1770 et seq. of the California Labor Code.
- 15.** This Project is subject to labor compliance monitoring and enforcement by the Department of Industrial Relations pursuant to Labor Code section 1771.4 and Title 8 of the California Code of Regulations. Contractor specifically acknowledges and understands that it shall perform the Work of this Agreement while complying with all the applicable provisions of Division 2, Part 7, Chapter 1, of the Labor Code, including, without limitation, the requirement that the Contractor and all of its Subcontractors shall timely submit complete and accurate electronic certified payroll records as required by the Contract Documents, or the District may not issue payment.
- 16. Contract Price:** In consideration of the foregoing covenants, promises, and agreements on the part of the Contractor, and the strict and literal fulfillment of each

and every covenant, promise, and agreement, and as compensation agreed upon for the Work and construction, erection, and completion as aforesaid, the District covenants, promises, and agrees that it will well and truly pay and cause to be paid to the Contractor in full, and as the full Contract Price and compensation for construction, erection, and completion of the Work hereinabove agreed to be performed by the Contractor, the following price:

_____ **Dollars**
(\$ _____),

in lawful money of the United States, which sum is to be paid according to the schedule provided by the Contractor and accepted by the District and subject to additions and deductions as provided in the Contract. This amount supersedes any previously stated and/or agreed to amount(s).

17. Severability: If any term, covenant, condition, or provision in any of the Contract Documents is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remainder of the provisions in the Contract Documents shall remain in full force and effect and shall in no way be affected, impaired, or invalidated thereby.

18. Authority to Execute: The individual(s) executing this Agreement on behalf of the Contractor is/are duly and fully authorized to execute this Agreement on behalf of Contractor and to bind the Contractor to each and every term, condition and covenant of the Contract Documents.

IN WITNESS WHEREOF, accepted and agreed on the date indicated above:

CONTRACTOR

DISTRICT

MARIN COMMUNITY COLLEGE DISTRICT

By: _____

By: _____

Title: _____

Title: _____

NOTE: If the party executing this Contract is a corporation, a certified copy of the by-laws, or of the resolution of the Board of Directors, authorizing the officers of said corporation to execute the Contract and the bonds required thereby must be attached hereto.

END OF DOCUMENT

DOCUMENT 00 55 00

NOTICE TO PROCEED

Dated: _____, 20__

TO: _____
("Contractor")

ADDRESS: _____

PROJECT: **I25-35612 – INTERIM CLASSROOMS**

between the Marin Community College District and Contractor ("Contract").

You are notified that the Contract Time under the above Contract will commence to run on _____, 20__. By that date, you are to start performing your obligations under the Contract Documents. In accordance with the Agreement executed by Contractor, the date of completion is _____, 20__.

You must submit the following documents by 5:00 p.m. of the **(TENTH (10th))** calendar day following the date of this Notice to Proceed:

- a. Contractor's preliminary schedule of construction.
- b. Contractor's preliminary schedule of values for all of the Work.
- c. Contractor's preliminary schedule of submittals, including Shop Drawings, Product Data, and Samples submittals
- d. Contractor's Safety Plan specifically adapted for the Project.
- e. A complete subcontractors list, including the name, address, telephone number, facsimile number, California State Contractors License number, classification, and monetary value of all Subcontracts.

Thank you. We look forward to a very successful Project.

MARIN COMMUNITY COLLEGE DISTRICT

BY: _____

NAME: _____

TITLE: _____

END OF DOCUMENT

SAMPLE

DOCUMENT 00 56 00

ESCROW BID DOCUMENTATION

1. Requirement to Escrow Bid Documentation

- a. Contractor shall submit, within **SEVEN (7)** calendar days after the date of the Notice of Award, one copy of all documentary information received or generated by Contractor in preparation of bid prices for this Contract, as specified herein. This material is referred to herein as "Escrow Bid Documentation." The Escrow Bid Documentation of the Contractor will be held in escrow for the duration of the Contract.
- b. Contractor agrees, as a condition of award of the Contract, that the Escrow Bid Documentation constitutes all written information used in the preparation of its bid, and that no other written bid preparation information shall be considered in resolving disputes or claims. Contractor also agrees that nothing in the Escrow Bid Documentation shall change or modify the terms or conditions of the Contract Documents.
- c. The Escrow Bid Documentation will not be opened by District except as indicated herein. The Escrow Bid Documentation will be used only for the resolution of change orders and claims disputes.
- d. Contractor's submission of the Escrow Bid Documentation, as with the bonds and insurance documents required, is considered an essential part of the Contract award. Should the Contractor fail to make the submission within the allowed time specified above, District may deem the Contractor to have failed to enter into the Contract, and the Contractor shall forfeit the amount of its bid security, accompanying the Contractor's bid, and District may award the Contract to the next lowest responsive responsible bidder.
- e. NO PAYMENTS WILL BE MADE, NOR WILL DISTRICT ACCEPT PROPOSED CHANGE ORDERS UNTIL THE ABOVE REQUIRED INFORMATION IS SUBMITTED AND APPROVED.
- f. The Escrow Bid Documentation shall be submitted in person by an authorized representative of the Contractor to the District.

2. Ownership of Escrow Bid Documentation

- a. The Escrow Bid Documentation is, and shall always remain, the property of Contractor, subject to review by District, as provided herein.
- b. Escrow Bid Documentation constitute trade secrets, not known outside Contractor's business, known only to a limited extent and only by a limited number of employees of Contractor, safeguarded while in Contractor's possession, extremely valuable to Contractor, and could be extremely valuable to Contractor's competitors by virtue of it reflecting Contractor's

contemplated techniques of construction. Subject to the provisions herein, District agrees to safeguard the Escrow Bid Documentation, and all information contained therein, against disclosure to the fullest extent permitted by law.

3. Format and Contents of Escrow Bid Documentation

- a. Contractor may submit Escrow Bid Documentation in its usual cost-estimating format; a standard format is not required. The Escrow Bid Documentation shall be submitted in the language (e.g., English) of the specification.
- b. Escrow Bid Documentation must clearly itemize the estimated costs of performing the work of each bid item contained in the bid schedule, separating bid items into sub-items as required to present a detailed cost estimate and allow a detailed cost review. The Escrow Bid Documentation shall include all subcontractor bids or quotes, supplier bids or quotes, quantity takeoffs, crews, equipment, calculations of rates of production and progress, copies of quotes from subcontractors and suppliers, and memoranda, narratives, add/deduct sheets, and all other information used by the Contractor to arrive at the prices contained in the bid proposal. Estimated costs should be broken down into Contractor's usual estimate categories such as direct labor, repair labor, equipment ownership and operation, expendable materials, permanent materials, and subcontract costs as appropriate. Plant and equipment and indirect costs should be detailed in the Contractor's usual format. The Contractor's allocation of indirect costs, contingencies, markup, and other items to each bid item shall be identified.
- c. All costs shall be identified. For bid items amounting to less than \$10,000, estimated unit costs are acceptable without a detailed cost estimate, provided that labor, equipment, materials, and subcontracts, as applicable, are included and provided that indirect costs, contingencies, and markup, as applicable, are allocated.
- d. Bid Documentation provided by District should not be included in the Escrow Bid Documentation unless needed to comply with the following requirements.

4. Submittal of Escrow Bid Documentation

- a. The Escrow Bid Documentation shall be submitted by the Contractor in a sealed container within **SEVEN (7)** calendar days after the date of the Notice of Award. The container shall be clearly marked on the outside with the Contractor's name, date of submittal, project name and the words "Escrow Bid Documentation – Intended to be opened in the presence of Authorized Representatives of Both District and Contractor".
- b. By submitting Escrow Bid Documentation, Contractor represents that the material in the Escrow Bid Documentation constitutes all the documentary information used in preparation of the bid and that the Contractor has personally examined the contents of the Escrow Bid Documentation container and has found that the documents in the container are complete.

- c. If Contractor's proposal is based upon subcontracting any part of the work, each subcontractor whose total subcontract price exceeds 5 percent of the total contract price proposed by Contractor, shall provide separate Escrow Documents to be included with those of Contractor. Those documents shall be opened and examined in the same manner and at the same time as the examination described above for Contractor.
- d. If Contractor wishes to subcontract any portion of the Work after award, District retains the right to require Contractor to submit Escrow Documents for the Subcontractor before the subcontract is approved.

5. Storage, Examination and Final Disposition of Escrow Bid Documentation

- a. The Escrow Bid Documentation will be placed in escrow, for the life of the Contract, in a mutually agreeable institution. The cost of storage will be paid by Contractor for the duration of the project until final Contract payment. The storage facilities shall be the appropriate size for all the Escrow Bid Documentation and located conveniently to both District's and Contractor's offices.
- b. The Escrow Bid Documentation shall be examined by both District and Contractor, at any time deemed necessary by either District or Contractor, to assist in the negotiation of price adjustments and change orders or the settlement of disputes and claims. In the case of legal proceedings, Escrow Bid Documentation shall be used subject to the terms of an appropriate protective order if requested by Contractor and ordered by a court of competent jurisdiction. Examination of the Escrow Bid Documentation is subject to the following conditions:
 - (1) As trade secrets, the Escrow Bid Documentation is proprietary and confidential to the extent allowed by law.
 - (2) District and Contractor shall each designate, in writing to the other party **SEVEN (7)** calendar days prior to any examination, the names of representatives who are authorized to examine the Escrow Bid Documentation. No other person shall have access to the Escrow Bid Documentation.
 - (3) Access to the documents may take place only in the presence of duly designated representatives of the District and Contractor. If Contractor fails to designate a representative or appear for joint examination on **SEVEN (7)** calendar days notice, then the District representative may examine the Escrow Bid Documents alone upon an additional **THREE (3)** calendar days notice if a representative of the Contractor does not appear at the time set.
 - (4) If a subcontractor has submitted sealed information to be included in the Escrow Bid Documents, access to those documents may take place only in the presence of a duly designated representative of the District,

Contractor and that subcontractor. If that subcontractor fails to designate a representative or appear for joint examination on **SEVEN (7)** calendar days notice, then the District representative and/or the Contractor may examine the Escrow Bid Documentation without that subcontractor present upon an additional **THREE (3)** calendar days notice if a representative of that subcontractor does not appear at the time set.

- c. The Escrow Bid Documentation will be returned to Contractor at such time as the Contract has been completed and final settlement has been achieved.

END OF DOCUMENT

DOCUMENT 00 57 00

ESCROW AGREEMENT IN LIEU OF RETENTION
Public Contact Code Section 22300

(Note: Contractor must use this form.)

This Escrow Agreement ("Escrow Agreement") is made and entered into this _____ day of _____, 20____, by and between the Marin Community College District ("District"), whose address is _____, California, and _____ ("Contractor"), whose address is _____, and _____ ("Escrow Agent"), a state or federally chartered bank in the state of California, whose address is _____.

For the consideration hereinafter set forth, District, Contractor, and Escrow Agent agree as follows:

1. Pursuant to section 22300 of Public Contract Code of the State of California, which is hereby incorporated by reference, Contractor has the following two (2) options:
 - Deposit securities with Escrow Agent as a substitute for retention earnings required to be withheld by District pursuant to the Construction Contract No. _____ entered into between District and Contractor for the **I25-35612 - INTERIM CLASSROOMS** Project, in the amount of _____ Dollars (\$ _____) dated, _____, 20____, (the "Contract"); **or**
 - On written request of Contractor, District shall make payments of the retention earnings for the above referenced Contract directly to Escrow Agent.

When Contractor deposits the securities as a substitute for Contract earnings (first option), Escrow Agent shall notify District within ten (10) calendar days of the deposit. The market value of the securities at the time of substitution and at all times from substitution until the termination of the Escrow Agreement shall be at least equal to the cash amount then required to be withheld as retention under terms of Contract between District and Contractor.

Securities shall be held in name of Marin Community College Community College District, and shall designate Contractor as beneficial owner.

2. District shall make progress payments to Contractor for those funds which otherwise would be withheld from progress payments pursuant to Contract provisions, provided that Escrow Agent holds securities in form and amount specified above.
3. When District makes payment of retention earned directly to Escrow Agent, Escrow Agent shall hold them for the benefit of Contractor until the time that the escrow

created under this Escrow Agreement is terminated. Contractor may direct the investment of the payments into securities. All terms and conditions of this Escrow Agreement and the rights and responsibilities of the Parties shall be equally applicable and binding when District pays Escrow Agent directly.

4. Contractor shall be responsible for paying all fees for the expenses incurred by Escrow Agent in administering the Escrow Account, and all expenses of District. The District will charge Contractor \$_____ for each of District's deposits to the escrow account. These expenses and payment terms shall be determined by District, Contractor, and Escrow Agent.
5. Interest earned on securities or money market accounts held in escrow and all interest earned on that interest shall be for sole account of Contractor and shall be subject to withdrawal by Contractor at any time and from time to time without notice to District.
6. Contractor shall have the right to withdraw all or any part of the principal in the Escrow Account only by written notice to Escrow Agent accompanied by written authorization from District to Escrow Agent that District consents to withdrawal of amount sought to be withdrawn by Contractor.
7. District shall have the right to draw upon the securities and/or withdraw amounts from the Escrow Account in the event of default by Contractor. Upon seven (7) days' written notice to Escrow Agent from District of the default, if applicable, Escrow Agent shall immediately convert the securities to cash and shall distribute the cash as instructed by District.
8. Upon receipt of written notification from District certifying that the Contract is final and complete, and that Contractor has complied with all requirements and procedures applicable to the Contract, Escrow Agent shall release to Contractor all securities and interest on deposit less escrow fees and charges of the Escrow Account. The escrow shall be closed immediately upon disbursement of all monies and securities on deposit and payments of fees and charges.
9. Escrow Agent shall rely on written notifications from District and Contractor pursuant to Paragraphs 5 through 8, inclusive, of this Escrow Agreement and District and Contractor shall hold Escrow Agent harmless from Escrow Agent's release and disbursement of securities and interest as set forth above.
10. Names of persons who are authorized to give written notice or to receive written notice on behalf of District and on behalf of Contractor in connection with the foregoing, and exemplars of their respective signatures are as follows:

On behalf of District:

Title

Name

Signature

Address

On behalf of Contractor:

Title

Name

Signature

Address

On behalf of Escrow Agent:

Title

Name

Signature

Address

At the time of Escrow Account is opened, District and Contractor shall deliver to Escrow Agent a fully executed of this Agreement.

IN WITNESS WHEREOF, the parties have executed this Agreement by their proper officers on the date first set forth above.

On behalf of District:

Title

Name

Signature

Address

On behalf of Contractor:

Title

Name

Signature

Address

END OF DOCUMENT

DOCUMENT 00 61 13.13

PERFORMANCE BOND
(100% of Contract Price)

(Note: Bidders must use this form, NOT a surety company form.)

KNOW ALL PERSONS BY THESE PRESENTS:

WHEREAS, the governing board ("Board") of the Marin Community College District, ("District") and _____ ("Principal") have entered into a contract for the furnishing of all materials and labor, services and transportation, necessary, convenient, and proper to perform the following project:

I25-35612 – INTERIM CLASSROOMS (Project Name)

("Project" or "Contract") which Contract dated _____, 20____, and all of the Contract Documents attached to or forming a part of the Contract, are hereby referred to and made a part hereof; and

WHEREAS, said Principal is required under the terms of the Contract to furnish a bond for the faithful performance of the Contract.

NOW, THEREFORE, the Principal and _____ ("Surety") are held and firmly bound unto the Board of the District in the penal sum of _____

Dollars (\$_____), lawful money of the United States, for the payment of which sum well and truly to be made we bind ourselves, our heirs, executors, administrators, successors, and assigns jointly and severally, firmly by these presents, to:

- Perform all the work required to complete the Project; and
- Pay to the District all damages the District incurs as a result of the Principal's failure to perform all the Work required to complete the Project.

The condition of the obligation is such that, if the above bounden Principal, his or its heirs, executors, administrators, successors, or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions, and agreements in the Contract and any alteration thereof made as therein provided, on his or its part to be kept and performed at the time and in the intent and meaning, including all contractual guarantees and warranties of materials and workmanship, and shall indemnify and save harmless the District, its trustees, officers and agents, as therein stipulated, then this obligation shall become null and void, otherwise it shall be and remain in full force and virtue.

Surety expressly agrees that the District may reject any contractor or subcontractor proposed by Surety to fulfill its obligations in the event of default by the Principal. Surety

shall not utilize Principal in completing the Work nor shall Surety accept a Bid from Principal for completion of the Work if the District declares the Principal to be in default and notifies Surety of the District's objection to Principal's further participation in the completion of the Work.

As a condition precedent to the satisfactory completion of the Contract, the above obligation shall hold good for a period equal to the warranty and/or guarantee period of the Contract, during which time Surety's obligation shall continue if Contractor shall fail to make full, complete, and satisfactory repair and replacements and totally protect the District from loss or damage resulting from or caused by defective materials or faulty workmanship. The obligations of Surety hereunder shall continue so long as any obligation of Contractor remains. Nothing herein shall limit the District's rights or the Contractor or Surety's obligations under the Contract, law or equity, including, but not limited to, California Code of Civil Procedure section 337.15.

The Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration, or addition to the terms of the Contract or to the work or to the specifications.

In the event that suit or other proceeding is brought upon this Bond by the Obligee, the Surety shall pay to the Obligee all costs, expenses and fees incurred by the Obligee in connection therewith, including without limitation, attorneys' fees.

IN WITNESS WHEREOF, two (2) identical counterparts of this instrument, each of which shall for all purposes be deemed an original thereof, have been duly executed by the Principal and Surety above named, on the _____ day of _____, 20__.

(Affix Corporate Seal)

Principal

By

Surety

By

Name of California Agent of Surety

Address of California Agent of Surety

Telephone No. of California Agent of Surety

Bidder must attach a Notarial Acknowledgment for all Surety's signatures and a Power of Attorney and Certificate of Authority for Surety. The California Department of Insurance must authorize the Surety to be an admitted surety insurer.

END OF DOCUMENT

DOCUMENT 00 61 13.16

PAYMENT BOND
Contractor's Labor & Material Bond
(100% of Contract Price)

(Note: Bidders must use this form, NOT a surety company form.)

KNOW ALL PERSONS BY THESE PRESENTS:

WHEREAS, the governing board ("Board") of the Marin Community College District, (or "District") and _____, ("Principal") have entered into a contract for the furnishing of all materials and labor, services and transportation, necessary, convenient, and proper to perform the following project:

I25-35612 – INTERIM CLASSROOMS (Project Name/Project Number)

("Project" or "Contract") which Contract dated _____, 2017, and all of the Contract Documents attached to or forming a part of the Contract, are hereby referred to and made a part hereof; and

WHEREAS, pursuant to law and the Contract, the Principal is required, before entering upon the performance of the work, to file a good and sufficient bond with the body by which the Contract is awarded in an amount equal to one hundred percent (100%) of the Contract price, to secure the claims to which reference is made in sections 9000 through 9510 and 9550 through 9566 of the Civil Code, and division 2, part 7, of the Labor Code.

NOW, THEREFORE, the Principal and _____ ("Surety")

are held and firmly bound unto all laborers, material men, and other persons referred to in said statutes in the sum of _____ Dollars (\$ _____), lawful money of the United States, being a sum not less than the total amount payable by the terms of Contract, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, or assigns, jointly and severally, by these presents.

The condition of this obligation is that if the Principal or any of his or its subcontractors, of the heirs, executors, administrators, successors, or assigns of any, all, or either of them shall fail to pay for any labor, materials, provisions, provender, or other supplies, used in, upon, for or about the performance of the work contracted to be done, or for any work or labor thereon of any kind, or for amounts required to be deducted, withheld, and paid over to the Employment Development Department from the wages of employees of the Principal or any of his or its subcontractors of any tier under Section 13020 of the Unemployment Insurance Code with respect to such work or labor, that the Surety will pay the same in an amount not exceeding the amount herein above set forth, and also in case suit is brought upon this bond, will pay a reasonable attorney's fee to be awarded and fixed by the Court, and to be taxed as costs and to be included in the judgment therein rendered.

It is hereby expressly stipulated and agreed that this bond shall inure to the benefit of any and all persons, companies, and corporations entitled to file claims under section 9100 of

the Civil Code, so as to give a right of action to them or their assigns in any suit brought upon this bond.

Should the condition of this bond be fully performed, then this obligation shall become null and void; otherwise it shall be and remain in full force and affect.

And the Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms of Contract or the specifications accompanying the same shall in any manner affect its obligations on this bond, and it does hereby waive notice of any such change, extension, alteration, or addition.

IN WITNESS WHEREOF, two (2) identical counterparts of this instrument, each of which shall for all purposes be deemed an original thereof, have been duly executed by the Principal and Surety above named, on the _____ day of _____, 2017.

(Affix Corporate Seal)

Principal

By

Surety

By

Name of California Agent of Surety

Address of California Agent of Surety

Telephone No. of California Agent of Surety

Bidder must attach a Notarial Acknowledgment for all Surety's signatures and a Power of Attorney and Certificate of Authority for Surety. The California Department of Insurance must authorize the Surety to be an admitted surety insurer.

END OF DOCUMENT

DOCUMENT 00 65 19.26

AGREEMENT AND RELEASE OF ANY AND ALL CLAIMS

THIS AGREEMENT AND RELEASE OF CLAIMS ("Agreement and Release") IS MADE AND ENTERED INTO THIS _____ DAY OF _____, 20__ by and between the MARIN COMMUNITY COLLEGE DISTRICT ("District") and _____ ("Contractor"), whose place of business is _____.

RECITALS:

- A. California Public Contract Code section 7100 provides that a public entity is not prohibited from placing in a public works contract and enforcing a contract provision which provides that payment of undisputed contract amounts is contingent upon the contractor furnishing the public entity with a release of all claims against the public entity arising by virtue of the public works contract related to those amounts; provided that disputed contract claims in stated amounts may be specifically excluded by the contractor from the operation of the release.
- B. District and Contractor entered into PROJECT/CONTRACT NO.: **I25-35612 – INTERIM CLASSROOMS** ("Contract" or "Project") in the County of Marin, California.
- C. The Work under the Contract has been completed and the parties desire to enter into this Agreement and Release as provided in California Public Contract Code section 7100 concerning payment of undisputed contract amounts under the Contract.

NOW, THEREFORE, it is mutually agreed between District and Contractor as follows:

AGREEMENT

- 1. Contractor will only be assessed liquidated damages as detailed below:

Original Contract Sum	\$ _____
Modified Contract Sum	\$ _____
Payment to Date	\$ _____
Liquidated Damages	\$ _____
Payment Due Contractor	\$ _____
- 2. Subject to the provisions hereof, District shall forthwith pay to Contractor the undisputed sum of _____ Dollars (\$ _____) under the Contract, less any amounts represented by any notice to withhold funds on file with District as of the date of such payment.
- 3. Contractor acknowledges and hereby agrees that there are no unresolved or outstanding claims in dispute against District arising from the performance of work

under the Contract, except for the claims described in Paragraph 4 and continuing obligations described in Paragraph 6. It is the intention of the parties in executing this Agreement and Release that this Agreement and Release shall be effective as a full, final and general release of all claims, demands, actions, causes of action, obligations, costs, expenses, damages, losses and liabilities of Contractor against District, all its respective agents, employees, inspectors, assignees and transferees except for the Disputed Claim is set forth in Paragraph 4 and continuing obligations described in Paragraph 6 hereof.

4. The following claims submitted under Document 00 72 13 (General Conditions), Article 25, are disputed (hereinafter, the "Disputed Claims") and are specifically excluded from the operation of this Agreement and Release:

<u>Claim No. Submitted</u>	<u>Description of Claim</u>	<u>Amount of Claim</u>	<u>Date Claim</u>
_____	_____	\$ _____	_____
_____	_____	\$ _____	_____
_____	_____	\$ _____	_____

[If further space is required, attach additional sheets showing the required information.]

5. Consistent with California Public Contract Code section 7100, Contractor hereby agrees that, in consideration of the payment set forth in Paragraph 2 hereof, Contractor hereby releases and forever discharges District, all its agents, employees, inspectors, assignees, and transferees from any and all liability, claims, demands, actions, or causes of action of whatever kind or nature arising out of or in any way concerned with the Work under the Contract.
6. Guarantees and warranties for the Work, and any other continuing obligation of Contractor, shall remain in full force and effect as specified in the Contract Documents.
7. To the furthest extent permitted by California law, Contractor shall defend, indemnify, and hold harmless the District, its agents, representatives, officers, consultants, employees, trustees, and volunteers (the "indemnified parties") from any and all losses, liabilities, claims, suits, and actions of any kind, nature, and description, including, but not limited to, attorneys' fees and costs, directly or indirectly arising out of, connected with, or resulting from the performance of the Contract unless caused wholly by the sole negligence or willful misconduct of the indemnified parties.
8. Contractor hereby waives the provisions of California Civil Code section 1542 which provides as follows:

A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS WHICH THE CREDITOR DOES NOT KNOW OR SUSPECT TO EXIST IN HIS OR HER

FAVOR AT THE TIME OF EXECUTING THE RELEASE, WHICH IF KNOWN BY HIM OR HER MUST HAVE MATERIALLY AFFECTED HIS OR HER SETTLEMENT WITH THE DEBTOR.

9. The provisions of this Agreement and Release are contractual in nature and not mere recitals and shall be considered independent and severable. If any such provision or any part thereof shall be at any time held invalid in whole or in part under any federal, state, county, municipal, or other law, ruling, or regulations, then such provision, or part thereof, shall remain in force and effect to the extent permitted by law, and the remaining provisions of this Agreement and Release shall also remain in full force and effect, and shall be enforceable.
10. All rights of District shall survive completion of the Work or termination of Contract, and execution of this Release.

* * * CAUTION: THIS IS A RELEASE - READ BEFORE EXECUTING * * *

MARIN COMMUNITY COLLEGE DISTRICT

SIGNATURE: _____

PRINT NAME: _____

TITLE: _____

CONTRACTOR: _____

SIGNATURE: _____

PRINT NAME: _____

TITLE: _____

END OF DOCUMENT

DOCUMENT 00 65 36

GUARANTEE FORM

_____ ("Contractor") hereby agrees that the _____
_____ ("Work" of Contractor) which Contractor has installed for the Marin
Community College District ("District") for the following project:

PROJECT: **I25-35612 – INTERIM CLASSROOMS**

("Project" or "Contract") has been performed in accordance with the requirements of the
Contract Documents and that the Work as installed will fulfill the requirements of the
Contract Documents.

The undersigned agrees to repair or replace any or all of such Work that may prove to be
defective in workmanship or material together with any other adjacent Work that may be
displaced in connection with such replacement within a period of _____
year(s) from the date of completion as defined in Public Contract Code section 7107,
subdivision (c), ordinary wear and tear and unusual abuse or neglect excepted. The date of
completion is _____, 20____.

In the event of the undersigned's failure to comply with the above-mentioned conditions
within a reasonable period of time, as determined by the District, but not later than seven
(7) days after being notified in writing by the District, the undersigned authorizes the
District to proceed to have said defects repaired and made good at the expense of the
undersigned. The undersigned shall pay the costs and charges therefor upon demand.

Date: _____

Proper Name of Contractor: _____

Signature: _____

Print Name: _____

Title: _____

Representatives to be contacted for service subject to terms of Contract:

NAME: _____

ADDRESS: _____

PHONE NO.: _____

END OF DOCUMENT

DOCUMENT 00 72 13

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GENERAL CONDITIONS

1. CONTRACT TERMS AND DEFINITIONS

1.1. Definitions

Wherever used in the Contract Documents, the following terms shall have the meanings indicated, which shall be applicable to both the singular and plural thereof:

1.1.1. Adverse Weather: Shall be only weather that satisfies all of the following conditions: (1) unusually severe precipitation, sleet, snow, hail, heat, or cold conditions in excess of the norm for the location and time of year it occurred, (2) unanticipated, and (3) at the Project.

1.1.2. Approval, Approved, and/or Accepted: Refer to written authorization, unless stated otherwise.

1.1.3. Architect: The individual, partnership, corporation, joint venture, or any combination thereof, named as Architect, who will have the rights and authority assigned to the Architect in the Contract Documents. The term Architect means the Design Professional in General Responsible Charge as defined in DSA PR 13-02 on this Project or the Architect's authorized representative.

1.1.4. As-Built Drawings: Unless otherwise defined in the Special Conditions, reproducible blue line prints of drawings to be prepared on a monthly basis pursuant to the Contract Documents, that reflect changes made during the performance of the Work, recording differences between the original design of the Work and the Work as constructed since the preceding monthly submittal.

1.1.5. Bidder: A contractor who intends to provide a proposal to the District to perform the Work of this Contract.

1.1.6. Change Order: A written order to the Contractor authorizing an addition to, deletion from, or revision in the Work, and/or authorizing an adjustment in the Contract Price or Contract Time.

1.1.7. Claim: A Dispute that remains unresolved at the conclusion of the all the applicable Dispute Resolution requirements provided herein.

1.1.8. Construction Change Directive: A written order prepared and issued by the District, the Construction Manager, and/or the Architect and signed by the District and the Architect, directing a change in the Work.

1.1.9. Construction Manager: The individual, partnership, corporation, joint venture, or any combination thereof, or its authorized representative, named as such by the District. If no Construction Manager is used on the Project that is the subject

of this Contract, then all references to Construction Manager herein shall be read to refer to District.

1.1.10. Construction Schedule: The progress schedule of construction of the Project as provided by Contractor and approved by District.

1.1.11. Contract, Contract Documents: The Contract consists exclusively of the documents evidencing the agreement of the District and Contractor, identified as the Contract Documents. The Contract Documents consist of the following documents:

- 1.1.11.1.** Notice to Bidders
- 1.1.11.2.** Instructions to Bidders
- 1.1.11.3.** Bid Form and Proposal
- 1.1.11.4.** Bid Bond
- 1.1.11.5.** Designated Subcontractors List
- 1.1.11.6.** Site-Visit Certification (if a site visit was required)
- 1.1.11.7.** Noncollusion Declaration
- 1.1.11.8.** Notice of Award
- 1.1.11.9.** Notice to Proceed
- 1.1.11.10.** Agreement
- 1.1.11.11.** Escrow of Bid Documentation
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- 1.1.11.15.** General Conditions
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- 1.1.11.18.** Hazardous Materials Procedures and Requirements
- 1.1.11.19.** Workers' Compensation Certification
- 1.1.11.20.** Prevailing Wage Certification
- 1.1.11.21.** Disabled Veterans Business Enterprise Participation Certification (if applicable)
- 1.1.11.22.** Drug-Free Workplace Certification
- 1.1.11.23.** Tobacco-Free Environment Certification
- 1.1.11.24.** Hazardous Materials Certification
- 1.1.11.25.** Lead-Based Paint Certification
- 1.1.11.26.** Imported Materials Certification
- 1.1.11.27.** Criminal Background Investigation/Fingerprinting Certification
- 1.1.11.28.** Buy American Certification (if applicable)
- 1.1.11.29.** Roofing Project Certification (if applicable)
- 1.1.11.30.** Iran Contracting Act Certification (if applicable)
- 1.1.11.31.** Letter of Assent (if applicable)
- 1.1.11.32.** All Plans, Technical Specifications, and Drawings
- 1.1.11.33.** Any and all addenda to any of the above documents
- 1.1.11.34.** Any and all change orders or written modifications to the above documents if approved in writing by the District

1.1.12. Contract Price: The total monies payable to the Contractor under the terms and conditions of the Contract Documents.

1.1.13. Contract Time: The time period stated in the Agreement for the completion of the Work.

1.1.14. Contractor: The person or persons identified in the Agreement as contracting to perform the Work to be done under this Contract, or the legal representative of such a person or persons.

1.1.15. Daily Job Report(s): Daily Project reports prepared by the Contractor's employee(s) who are present on Site, which shall include the information required herein.

1.1.16. Day(s): Unless otherwise designated, day(s) means calendar day(s).

1.1.17. Department of Industrial Relations (or "DIR"): is responsible, among other things, for labor compliance monitoring and enforcement of California prevailing wage laws and regulations for public works contracts.

1.1.18. Dispute: A separate demand by Contractor for a time extension; payment of money or damages arising from Work done by or on behalf of the Contractor pursuant to the Contract and payment of which is not otherwise expressly provided for or Contractor is not otherwise entitled to; or an amount of payment disputed by the District.

1.1.19. District: The public agency or the school district for which the Work is performed. The governing board of the District or its designees will act for the District in all matters pertaining to the Contract. The District may, at any time,

1.1.19.1. Direct the Contractor to communicate with or provide notice to the Construction Manager or the Architect on matters for which the Contract Documents indicate the Contractor will communicate with or provide notice to the District; and/or

1.1.19.2. Direct the Construction Manager or the Architect to communicate with or direct the Contractor on matters for which the Contract Documents indicate the District will communicate with or direct the Contractor.

1.1.20. Drawings (or "Plans"): The graphic and pictorial portions of the Contract Documents showing the design, location, scope and dimensions of the work, generally including plans, elevations, sections, details, schedules, sequence of operation, and diagrams.

1.1.21. DSA: Division of the State Architect.

1.1.22. Force Account Directive: A process that may be used when the District and the Contractor cannot agree on a price for a specific portion of work or before the Contractor prepares a prices for a specific portion of work and whereby the Contractor performs the work as indicated herein on a time and materials basis.

- 1.1.23. Labor Commissioner's Office** (or "Labor Commissioner") also known as the Division of Labor Standards Enforcement ("DLSE"): Division of the DIR responsible for adjudicating wage claims, investigating discrimination and public works complaints, and enforcing Labor Code statutes and Industrial Welfare Commission orders.
- 1.1.24. Municipal Separate Storm Sewer System** (or "MS4"): A system of conveyances used to collect and/or convey storm water, including, without limitation, catch basins, curbs, gutters, ditches, man-made channels, and storm drains.
- 1.1.25. Premises:** The real property owned by the District on which the Site is located.
- 1.1.26. Product(s):** New material, machinery, components, equipment, fixtures and systems forming the Work, including existing materials or components required and approved by the District for reuse.
- 1.1.27. Product Data:** Illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by the Contractor to illustrate a material, product, or system for some portion of the Work.
- 1.1.28. Project:** The planned undertaking as provided for in the Contract Documents.
- 1.1.29. Project Inspector** (or "Inspector"): The individual(s) retained by the District in accordance with title 24 of the California Code of Regulations to monitor and inspect the Project.
- 1.1.30. Project Stabilization Agreement** (or "PSA"): a prehire collective bargaining agreement in accordance with Public Contract Code section 2500 et seq. that establishes terms and conditions of employment for a specific construction project or projects and/or is an agreement described in Section 158(f) of Title 29 of the United States Code.
- 1.1.31. Program Manager:** The individual, partnership, corporation, joint venture, or any combination thereof, or its authorized representative, named as such by the District. If no Program Manager is designated for Project that is the subject of this Contract, then all references to Project Manager herein shall be read to refer to District.
- 1.1.32. Provide:** Shall include "provide complete in place," that is, "furnish and install," and "provide complete and functioning as intended in place" unless specifically stated otherwise.
- 1.1.33. Qualified SWPPP Practitioners** ("QSP"): certified personnel that attended a State Water Resources Control Board sponsored or approved training class and passed the qualifying exam.
- 1.1.34. Record Drawings:** Unless otherwise defined in the Special Conditions, Reproducible drawings (or Plans) prepared pursuant to the requirements of the

Contract Documents, that reflect all changes made during the performance of the Work, recording differences between the original design of the Work and the Work as constructed upon completion of the Project.

1.1.35. Request for Information (or "RFI"): A written request prepared by the Contractor requesting that the Architect provide additional information necessary to clarify or amplify an item in the Contract Documents that the Contractor believes is not clearly shown or called for in the Drawings or Specifications or other portions of the Contract Documents, or to address problems that have arisen under field conditions.

1.1.36. Request for Substitution for Specified Item: A request by Contractor to substitute an equal or superior material, product, thing, or service for a specific material, product, thing, or service that has been designated in the Contract Documents by a specific brand or trade name.

1.1.37. Safety Orders: Written and/or verbal orders for construction issued by the California Division of Industrial Safety ("CalOSHA") or by the United States Occupational Safety and Health Administration ("OSHA").

1.1.38. Safety Plan: Contractor's safety plan specifically adapted for the Project. Contractor's Safety Plan shall comply with all provisions regarding Project safety, including all applicable provisions in these General Conditions.

1.1.39. Samples: Physical examples that illustrate materials, products, equipment, finishes, colors, or workmanship and that, when approved in accordance with the Contract Documents, establish standards by which portions of the Work will be judged.

1.1.40. Shop Drawings: All drawings, prints, diagrams, illustrations, brochures, schedules, and other data that are prepared by the Contractor, a subcontractor, manufacturer, supplier, or distributor, that illustrate how specific portions of the Work shall be fabricated or installed.

1.1.41. Site: The Project site as shown on the Drawings.

1.1.42. Specifications: That portion of the Contract Documents, Division 1 through Division 17, and all technical sections, and addenda to all of these, if any, consisting of written descriptions and requirements of a technical nature of materials, equipment, construction methods and systems, standards, and workmanship.

1.1.43. State: The State of California.

1.1.44. Storm Water Pollution Prevention Plan (or "SWPPP"): A document which identifies sources and activities at a particular facility that may contribute pollutants to storm water and contains specific control measures and time frames to prevent or treat such pollutants.

1.1.45. Subcontractor: A contractor and/or supplier who is under contract with the Contractor or with any other subcontractor, regardless of tier, to perform a portion of the Work of the Project.

1.1.46. Submittal Schedule: The schedule of submittals as provided by Contractor and approved by District.

1.1.47. Surety: The person, firm, or corporation that executes as surety the Contractor's Performance Bond and Payment Bond, and must be a California admitted surety insurer as defined in the Code of Civil Procedure section 995.120.

1.1.48. Work: All labor, materials, equipment, components, appliances, supervision, coordination, and services required by, or reasonably inferred from, the Contract Documents, that are necessary for the construction and completion of the Project.

1.2. Laws Concerning The Contract

Contract is subject to all provisions of the Constitution and laws of California and the United States governing, controlling, or affecting District, or the property, funds, operations, or powers of District, and such provisions are by this reference made a part hereof. Any provision required by law to be included in this Contract shall be deemed to be inserted.

1.3. No Oral Agreements

No oral agreement or conversation with any officer, agent, or employee of District, either before or after execution of Contract, shall affect or modify any of the terms or obligations contained in any of the documents comprising the Contract.

1.4. No Assignment

Contractor shall not assign this Contract or any part thereof including, without limitation, any services or money to become due hereunder without the prior written consent of the District. Assignment without District's prior written consent shall be null and void. Any assignment of money due or to be come due under this Contract shall be subject to a prior lien for services rendered or material supplied for performance of work called for under this Contract in favor of all persons, firms, or corporations rendering services or supplying material to the extent that claims are filed pursuant to the Civil Code, Code of Civil Procedure, Government Code, Labor Code, and/or Public Contract Code, and shall also be subject to deductions for liquidated damages or withholding of payments as determined by District in accordance with this Contract. Contractor shall not assign or transfer in any manner to a Subcontractor or supplier the right to prosecute or maintain an action against the District.

1.5. Notice And Service Thereof

1.5.1. Any notice from one party to the other or otherwise under Contract shall be in writing and shall be dated and signed by the party giving notice or by a duly

authorized representative of that party. Any notice shall not be effective for any purpose whatsoever unless served in one of the following manners:

1.5.1.1. If notice is given by personal delivery thereof, it shall be considered delivered on the day of delivery.

1.5.1.2. If notice is given by overnight delivery service, it shall be considered delivered on (1) day after date deposited, as indicated by the delivery service.

1.5.1.3. If notice is given by depositing same in United States mail, enclosed in a sealed envelope, it shall be considered delivered three (3) days after date deposited, as indicated by the postmarked date.

1.5.1.4. If notice is given by registered or certified mail with postage prepaid, return receipt requested, it shall be considered delivered on the day the notice is signed for.

1.6. No Waiver

The failure of District in any one or more instances to insist upon strict performance of any of the terms of this Contract or to exercise any option herein conferred shall not be construed as a waiver or relinquishment to any extent of the right to assert or rely upon any such terms or option on any future occasion. No action or failure to act by the District, Architect, or Construction Manager shall constitute a waiver of any right or duty afforded the District under the Contract, nor shall any action or failure to act constitute an approval of or acquiescence in any breach thereunder, except as may be specifically agreed in writing.

1.7. Substitutions For Specified Items

Unless the Special Conditions contain different provisions, Contractor shall not substitute different items for any items identified in the Contract Documents without prior written approval of the District.

1.8. Materials and Work

1.8.1. Except as otherwise specifically stated in this Contract, Contractor shall provide and pay for all materials, labor, tools, equipment, transportation, supervision, temporary constructions of every nature, and all other services, management, and facilities of every nature whatsoever necessary to execute and complete this Contract within the Contract Time.

1.8.2. Unless otherwise specified, all materials shall be new and the best of their respective kinds and grades as noted or specified, and workmanship shall be of good quality.

1.8.3. Materials shall be furnished in ample quantities and at such times as to insure uninterrupted progress of Work and shall be stored properly and protected as required.

1.8.4. For all materials and equipment specified or indicated in the Drawings, the Contractor shall provide all labor, materials, equipment, and services necessary for complete assemblies and complete working systems, functioning as intended. Incidental items not indicated on Drawings, nor mentioned in the Specifications, that can legitimately and reasonably be inferred to belong to the Work described, or be necessary in good practice to provide a complete assembly or system, shall be furnished as though itemized here in every detail. In all instances, material and equipment shall be installed in strict accordance with each manufacturer's most recent published recommendations and specifications.

1.8.5. Contractor shall, after award of Contract by District and after relevant submittals have been approved, place orders for materials and/or equipment as specified so that delivery of same may be made without delays to the Work. Contractor shall, upon demand from District, present documentary evidence showing that orders have been placed.

1.8.6. District reserves the right but has no obligation, for any neglect in complying with the above instructions, to place orders for such materials and/or equipment as it may deem advisable in order that the Work may be completed at the date specified in the Agreement, and all expenses incidental to the procuring of said materials and/or equipment shall be paid for by Contractor or withheld from payment(s) to Contractor.

1.8.7. Contractor warrants good title to all material, supplies, and equipment installed or incorporated in Work and agrees upon completion of all Work to deliver the Site to District, together with all improvements and appurtenances constructed or placed thereon by it, and free from any claims, liens, or charges. Contractor further agrees that neither it nor any person, firm, or corporation furnishing any materials or labor for any work covered by the Contract shall have any right to lien any portion of the Premises or any improvement or appurtenance thereon, except that Contractor may install metering devices or other equipment of utility companies or of political subdivision, title to which is commonly retained by utility company or political subdivision. In the event of installation of any such metering device or equipment, Contractor shall advise District as to owner thereof.

1.8.7.1. If a lien or a claim based on a stop payment notice of any nature should at any time be filed against the Work or any District property, by any entity that has supplied material or services at the request of the Contractor, Contractor and Contractor's Surety shall promptly, on demand by District and at Contractor's and Surety's own expense, take any and all action necessary to cause any such lien or a claim based on a stop payment notice to be released or discharged immediately therefrom.

1.8.7.2. If the Contractor fails to furnish to the District within ten (10) calendar days after demand by the District, satisfactory evidence that a lien or a claim based on a stop payment notice has been so released, discharged, or secured, the District may discharge such indebtedness and deduct the amount required therefor, together with any and all losses, costs, damages, and attorney's fees and expense incurred or suffered by District from any sum payable to Contractor under the Contract.

1.8.8. Nothing contained in this Article, however, shall defeat or impair the rights of persons furnishing materials or labor under any bond given by Contractor for their protection or any rights under any law permitting such protection or any rights under any law permitting such persons to look to funds due Contractor in hands of District (e.g., stop payment notices), and this provision shall be inserted in all subcontracts and material contracts and notice of its provisions shall be given to all persons furnishing material for work when no formal contract is entered into for such material.

1.8.9. Title to new materials and/or equipment for the Work of this Contract and attendant liability for its protection and safety shall remain with Contractor until incorporated in the Work of this Contract and accepted by District. No part of any materials and/or equipment shall be removed from its place of storage except for immediate installation in the Work of this Contract. Should the District, in its discretion, allow the Contractor to store materials and/or equipment for the Work off-site, Contractor will store said materials and/or equipment at a bonded warehouse and with appropriate insurance coverage at no cost to District. Contractor shall keep an accurate inventory of all materials and/or equipment in a manner satisfactory to District or its authorized representative and shall, at the District's request, forward it to the District.

2. [RESERVED]

3. ARCHITECT

3.1. The Architect shall represent the District during the Project and will observe the progress and quality of the Work on behalf of the District. Architect shall have the authority to act on behalf of District to the extent expressly provided in the Contract Documents and to the extent determined by District. Architect shall have authority to reject materials, workmanship, and/or the Work whenever rejection may be necessary, in Architect's reasonable opinion, to insure the proper execution of the Contract.

3.2. Architect shall, with the District and on behalf of the District, determine the amount, quality, acceptability, and fitness of all parts of the Work, and interpret the Specifications, Drawings, and shall, with the District, interpret all other Contract Documents.

3.3. Architect shall have all authority and responsibility established by law, including title 24 of the California Code of Regulations.

3.4. Contractor shall provide District and the Construction Manager with a copy of all written communication between Contractor and Architect at the same time as that communication is made to Architect, including, without limitation, all RFIs, correspondence, submittals, claims, and proposed change orders.

4. CONSTRUCTION MANAGER

4.1. If a construction manager is used on this Project ("Construction Manager" or "CM"), the Construction Manager will provide administration of the Contract on the

District's behalf. After execution of the Contract and Notice to Proceed, all correspondence and/or instructions from Contractor and/or District shall be forwarded through the Construction Manager. The Construction Manager will not be responsible for and will not have control or charge of construction means, methods, techniques, sequences, or procedures or for safety precautions in connection with the Work, which shall all remain the Contractor's responsibility.

4.2. The Construction Manager, however, will have authority to reject materials and/or workmanship not conforming to the Contract Documents, as determined by the District, the Architect, and/or the Project Inspector. The Construction Manager shall also have the authority to require special inspection or testing of any portion of the Work, whether it has been fabricated, installed, or fully completed. Any decision made by the Construction Manager, in good faith, shall not give rise to any duty or responsibility of the Construction Manager to the Contractor, any Subcontractor, their agents, employees, or other persons performing any of the Work. The Construction Manager shall have free access to any or all parts of Work at any time.

4.3. If the District does not use a Construction Manager on this Project, all references to Construction Manager or CM shall be read as District.

5. INSPECTOR, INSPECTIONS, AND TESTS

5.1. Project Inspector

5.1.1. One or more Project Inspector(s), including special Project Inspector(s), as required, will be assigned to the Work by District, in accordance with requirements of title 24, part 1, of the California Code of Regulations, to enforce the building code and monitor compliance with Plans and Specifications for the Project previously approved by the DSA. Duties of Project Inspector(s) are specifically defined in section 4-342 of said part 1 of title 24.

5.1.2. No Work shall be carried on except with the knowledge and under the inspection of the Project Inspector(s). The Project Inspector(s) shall have free access to any or all parts of Work at any time. Contractor shall furnish Project Inspector(s) reasonable opportunities for obtaining such information as may be necessary to keep Project Inspector(s) fully informed respecting progress and manner of work and character of materials, including, but not limited to, submission of form DSA 156 (or the most current version) to the Project Inspector at least 48 hours in advance of the commencement and completion of construction of each and every aspect of the Work. Forms are available on the DSA's website at: <http://www.dgs.ca.gov/dsa/Forms.aspx>. Inspection of Work shall not relieve Contractor from an obligation to fulfill this Contract. Project Inspector(s) and the DSA are authorized to stop work whenever the Contractor and/or its Subcontractor(s) are not complying with the Contract Documents. Any work stoppage by the Project Inspector(s) and/or DSA shall be without liability to the District. Contractor shall instruct its Subcontractors and employees accordingly.

5.1.3. If Contractor and/or any Subcontractor requests that the Project Inspector(s) perform any inspection off-site, this shall only be done if it is allowable

pursuant to applicable regulations and DSA, if the Project Inspector(s) agree to do so, and at the expense of the Contractor.

5.2. Tests and Inspections

5.2.1. Tests and Inspections shall comply with title 24, part 1, California Code of Regulations, group 1, article 5, section 4-335, and with the provisions of the Specifications.

5.2.2. The District will select an independent testing laboratory to conduct the tests. Selection of the materials required to be tested shall be by the laboratory or the District's representative and not by the Contractor. The Contractor shall notify the District's representative a sufficient time in advance of its readiness for required observation or inspection.

5.2.3. The Contractor shall notify the District's representative a sufficient time in advance of the manufacture of material to be supplied under the Contract Documents, which must by terms of the Contract Documents be tested, in order that the District may arrange for the testing of same at the source of supply. This notice shall be, at a minimum, seventy-two (72) hours prior to the manufacture of the material that needs to be tested.

5.2.4. Any material shipped by the Contractor from the source of supply prior to having satisfactorily passed such testing and inspection or prior to the receipt of notice from said representative that such testing and inspection will not be required, shall not be incorporated into and/or onto the Project.

5.2.5. The District will select and pay testing laboratory costs for all tests and inspections. Costs of tests of any materials found to be not in compliance with the Contract Documents shall be paid for by the District and reimbursed by the Contractor or deducted from the Contract Price.

5.3. Costs for After Hours and/or Off Site Inspections

If the Contractor performs Work outside the Inspector's regular working hours or requests the Inspector to perform inspections off Site, costs of any inspections required outside regular working hours or off Site shall be borne by the Contractor and may be invoiced to the Contractor by the District or the District may deduct those expenses from the next Progress Payment.

6. CONTRACTOR

Contractor shall construct the Work for the Contract price including any adjustment(s) to the Contract Price pursuant to provisions herein regarding changes to the Contract Price. Except as otherwise noted, Contractor shall provide and pay for all labor, materials, equipment, permits, fees, licenses, facilities, transportation, taxes, and services necessary for the proper execution and completion of the Work, except as indicated herein.

6.1. Status of Contractor

6.1.1. Contractor is and shall at all times be deemed to be an independent contractor and shall be wholly responsible for the manner in which it and its Subcontractors perform the services required of it by the Contract Documents. Nothing herein contained shall be construed as creating the relationship of employer and employee, or principal and agent, between the District, or any of the District's employees or agents, and Contractor or any of Contractor's Subcontractors, agents or employees. Contractor assumes exclusively the responsibility for the acts of its employees as they relate to the services to be provided during the course and scope of their employment. Contractor, its Subcontractors, agents, and its employees shall not be entitled to any rights or privileges of District employees. District shall be permitted to monitor the Contractor's activities to determine compliance with the terms of this Contract.

6.1.2. As required by law, Contractor and all Subcontractors shall be properly licensed and regulated by the Contractor's State License Board 9821 Business Park Drive, Sacramento, California 95827, <http://www.cslb.ca.gov>.

6.1.3. As required by law, Contractor and all Subcontractors shall be properly registered as public works contractors by the Department of Industrial Relations at <https://efiling.dir.ca.gov/PWCR/> or current URL.

6.2. Project Inspection Card(s)

Contractor shall verify that forms DSA 152 (or current version) are issued for the Project prior to the commencement of construction.

6.3. Contractor's Supervision

6.3.1. During progress of the Work, Contractor shall keep on the Premises, and at all other locations where any Work related to the Contract is being performed, a competent project manager and construction superintendent who are employees of the Contractor, to whom the District does not object and at least one of whom shall be fluent in English, written and verbal.

6.3.2. The project manager and construction superintendent shall both speak fluently the predominant language of the Contractor's employees.

6.3.3. Before commencing the Work herein, Contractor shall give written notice to District of the name of its project manager and construction superintendent. Neither the Contractor's project manager nor construction superintendent shall be changed except with prior written notice to District, unless the Contractor's project manager and/or construction superintendent proves to be unsatisfactory to Contractor, District, any of the District's employees, agents, the Construction Manager, or the Architect, in which case, Contractor shall notify District in writing. The Contractor's project manager and construction superintendent shall each represent Contractor, and all directions given to Contractor's project manager and/or construction superintendent shall be as binding as if given to Contractor.

6.3.4. Contractor shall give efficient supervision to Work, using its best skill and attention. Contractor shall carefully study and compare all Contract Documents,

Drawings, Specifications, and other instructions and shall at once report to District, Construction Manager, and Architect any error, inconsistency, or omission that Contractor or its employees and Subcontractors may discover, in writing, with a copy to District's Project Inspector(s). The Contractor shall have responsibility for discovery of errors, inconsistencies, or omissions.

6.4. Duty to Provide Fit Workers

6.4.1. Contractor and Subcontractor(s) shall at all times enforce strict discipline and good order among their employees and shall not employ or work any unfit person or anyone not skilled in work assigned to that person. It shall be the responsibility of Contractor to ensure compliance with this requirement. District may require Contractor to permanently remove unfit persons from Project Site.

6.4.2. Any person in the employ of Contractor or Subcontractor(s) whom District may deem incompetent or unfit shall be excluded from working on the Project and shall not again be employed on the Project except with the prior written consent of District.

6.4.3. The Contractor shall furnish labor that can work in harmony with all other elements of labor employed or to be employed in the Work.

6.4.4. If Contractor intends to make any change in the name or legal nature of the Contractor's entity, Contractor must first notify the District. The District shall determine if Contractor's intended change is permissible while performing this Contract.

6.5. Field Office

6.5.1. Contractor shall provide a temporary office on the Work Site for the District's use exclusively, during the term of the Contract.

6.6. Purchase of Materials and Equipment

The Contractor is required to order, obtain, and store materials and equipment sufficiently in advance of its Work at no additional cost or advance payment from District to assure that there will be no delays.

6.7. Documents On Work

6.7.1. Contractor shall at all times keep on the Work Site, or at another location as the District may authorize in writing, one legible copy of all Contract Documents, including Addenda and Change Orders, and Titles 19 and 24 of the California Code of Regulations, the specified edition(s) of the Uniform Building Code, all approved Drawings, Plans, Schedules, and Specifications, and all codes and documents referred to in the Specifications, and made part thereof. These documents shall be kept in good order and available to District, Construction Manager, Architect, Architect's representatives, the Project Inspector(s), and all authorities having jurisdiction. Contractor shall be acquainted with and comply with the provisions of these titles as they relate to this Project. (See particularly the duties of Contractor, Title 24, Part 1, California Code of Regulations, section 4-343.) Contractor shall also be acquainted with and comply with all California Code of Regulations provisions relating to conditions on this Project, particularly Titles 8 and 17. Contractor shall coordinate with Architect and Construction Manager and shall submit its verified report(s) according to the requirements of Title 24.

6.7.2. Daily Job Reports.

6.7.2.1. Contractor shall maintain, at a minimum, at least one (1) set of Daily Job Reports on the Project. These must be prepared by the Contractor's employee(s) who are present on Site, and must include, at a minimum, the following information:

- 6.7.2.1.1.** A brief description of all Work performed on that day.
- 6.7.2.1.2.** A summary of all other pertinent events and/or occurrences on that day.
- 6.7.2.1.3.** The weather conditions on that day.
- 6.7.2.1.4.** A list of all Subcontractor(s) working on that day,
- 6.7.2.1.5.** A list of each Contractor employee working on that day and the total hours worked for each employee.
- 6.7.2.1.6.** A complete list of all equipment on Site that day, whether in use or not.
- 6.7.2.1.7.** All complete list of all materials, supplies, and equipment delivered on that day.
- 6.7.2.1.8.** A complete list of all inspections and tests performed on that day.

6.7.2.2. Each day Contractor shall provide a copy of the previous day's Daily Job Report to the District or the Construction Manager.

6.8. Preservation of Records

The District shall have the right to examine and audit all Daily Job Reports or other Project records of Contractor's project manager(s), project superintendent(s), and/or project foreperson(s), all certified payroll records and/or related documents including, without limitation, payroll, payment, timekeeping and tracking documents; all books, estimates, records, contracts, documents, bid documents, bid cost data, subcontract job cost reports, and other data of the Contractor, any Subcontractor, and/or supplier,

including computations and projections related to bidding, negotiating, pricing, or performing the Work or Contract modification, in order to evaluate the accuracy, completeness, and currency of the cost, manpower, coordination, supervision, or pricing data at no additional cost to the District. These documents may be duplicative and/or be in addition to any Bid Documents held in escrow by the District. The Contractor shall make available at its office at all reasonable times the materials described in this paragraph for the examination, audit, or reproduction until three (3) years after final payment under this Contract. Notwithstanding the provisions above, Contractor shall provide any records requested by any governmental agency, if available, after the time set forth above.

6.9. Integration of Work

6.9.1. Contractor shall do all cutting, fitting, patching, and preparation of Work as required to make its several parts come together properly, to fit it to receive or be received by work of other contractors, and to coordinate tolerances to various pieces of work, showing upon, or reasonably implied by, the Drawings and Specifications for the completed structure, and shall conform them as District and/or Architect may direct.

6.9.2. Contractor shall make its own layout of lines and elevations and shall be responsible for the accuracy of both Contractor's and Subcontractors' work resulting therefrom.

6.9.3. Contractor and all Subcontractors shall take all field dimensions required in performance of the Work, and shall verify all dimensions and conditions on the Site. All dimensions affecting proper fabrication and installation of all Work must be verified prior to fabrication by taking field measurements of the true conditions. If there are any discrepancies between dimensions in drawings and existing conditions which will affect the Work, Contractor shall bring such discrepancies to the attention of the District and Architect for adjustment before proceeding with the Work. In doing so, it is recognized that Contractor is not acting in the capacity of a licensed design professional, and that Contractor's examination is made in good faith to facilitate construction and does not create an affirmative responsibility to detect errors, omissions or inconsistencies in the Contract Documents or to ascertain compliance with applicable laws, building codes or regulations. Following receipt of written notice from Contractor, the District and/or Architect shall inform Contractor what action, if any, Contractor shall take with regard to such discrepancies

6.9.4. All cost caused by defective or ill-timed Work shall be borne by Contractor, inclusive of repair work.

6.9.5. Contractor shall not endanger any work performed by it or anyone else by cutting, excavating, or otherwise altering work and shall not cut or alter work of any other contractor except with consent of District.

6.10. Notifications

6.10.1. Contractor shall notify the Architect and Project Inspector, in writing, of the commencement of construction of each and every aspect of the Work at least 48 hours in advance by submitting form DSA 156 (or current version) to the Project

Inspector. Forms are available on the DSA's website at:
<http://www.dgs.ca.gov/dsa/Forms.aspx>.

6.10.2. Contractor shall notify the Architect and Project Inspector, in writing, of the completion of construction of each and every aspect of the Work at least 48 hours in advance by submitting form DSA 156 (or current version) to the Project Inspector.

6.11. Obtaining of Permits, Licenses and Registration

Contractor shall secure and pay for all permits, licenses, registrations and certificates necessary for prosecution of Work, including but not limited to those listed in the Special Conditions, if any, before the date of the commencement of the Work or before the permits, licenses, registrations and certificates are legally required to continue the Work without interruption. The Contractor shall obtain and pay, only when legally required, for all licenses, registrations, permits, inspections, and inspection certificates required to be obtained from or issued by any authority having jurisdiction over any part of the Work included in the Contract. All final permits, licenses, and certificates shall be delivered to District before demand is made for final payment.

6.12. Royalties and Patents

6.12.1. Contractor shall obtain and pay, only when legally required, all royalties and license fees necessary for prosecution of Work before the earlier of the date of the commencement of the Work or the date that the license is legally required to continue the Work without interruption. Contractor shall defend suits or claims of infringement of patent, copyright, or other rights and shall hold the District, the Architect, and the Construction Manager harmless and indemnify them from loss on account thereof except when a particular design, process, or make or model of product is required by the Contract Documents. However, if the Contractor has reason to believe that the required design, process, or product is an infringement of a patent or copyright, the Contractor shall indemnify and defend the District, Architect and Construction Manager against any loss or damage unless the Contractor promptly informs the District of its information.

6.12.2. The review by the District or Architect of any method of construction, invention, appliance, process, article, device, or material of any kind shall be only its adequacy for the Work and shall not approve use by the Contractor in violation of any patent or other rights of any person or entity.

6.13. Work to Comply With Applicable Laws and Regulations

6.13.1. Contractor shall give all notices and comply with the following specific laws, ordinances, rules, and regulations and all other applicable laws, ordinances, rules, and regulations bearing on conduct of Work as indicated and specified, including but not limited to the appropriate statutes and administrative code sections. If Contractor observes that Drawings and Specifications are at variance therewith, or should Contractor become aware of the development of conditions not covered by Contract Documents that will result in finished Work being at variance

therewith, Contractor shall promptly notify District in writing and any changes deemed necessary by District shall be made as provided in Contract for changes in Work.

- 6.13.1.1.** National Electrical Safety Code, U. S. Department of Commerce
- 6.13.1.2.** National Board of Fire Underwriters' Regulations
- 6.13.1.3.** Uniform Building Code, latest addition, and the California Code of Regulations, title 24, and other amendments
- 6.13.1.4.** Manual of Accident Prevention in Construction, latest edition, published by A.G.C. of America
- 6.13.1.5.** Industrial Accident Commission's Safety Orders, State of California
- 6.13.1.6.** Regulations of the State Fire Marshall (title 19, California Code of Regulations) and Pertinent Local Fire Safety Codes
- 6.13.1.7.** Americans with Disabilities Act
- 6.13.1.8.** Education Code of the State of California
- 6.13.1.9.** Government Code of the State of California
- 6.13.1.10.** Labor Code of the State of California, division 2, part 7, Public Works and Public Agencies
- 6.13.1.11.** Public Contract Code of the State of California
- 6.13.1.12.** California Art Preservation Act
- 6.13.1.13.** U. S. Copyright Act
- 6.13.1.14.** U. S. Visual Artists Rights Act

6.13.2. Contractor shall comply with all applicable mitigation measures, if any, adopted by any public agency with respect to this Project pursuant to the California Environmental Quality Act (Public Resources Code section 21000 et seq.)

6.13.3. If Contractor performs any Work that it knew, or through exercise of reasonable care should have known, to be contrary to any applicable laws, ordinance, rules, or regulations, Contractor shall bear all costs arising therefrom.

6.13.4. Where Specifications or Drawings state that materials, processes, or procedures must be approved by the DSA, State Fire Marshall, or other body or agency, Contractor shall be responsible for satisfying requirements of such bodies or agencies.

6.14. Safety/Protection of Persons and Property

6.14.1. The Contractor will be solely and completely responsible for conditions of the Work Site, including safety of all persons and property during performance of the Work. This requirement will apply continuously and not be limited to normal working hours.

6.14.2. The wearing of hard hats will be mandatory at all times for all personnel on Site. Contractor shall supply sufficient hard hats to properly equip all employees and visitors.

6.14.3. Any construction review of the Contractor's performance is not intended to include review of the adequacy of the Contractor's safety measures in, on, or near the Work Site.

6.14.4. Implementation and maintenance of safety programs shall be the sole responsibility of the Contractor.

6.14.5. The Contractor shall furnish to the District a copy of the Contractor's safety plan within the time frame indicated in the Contract Documents and specifically adapted for the Project.

6.14.6. Contractor shall be responsible for all damages to persons or property that occur as a result of its fault or negligence in connection with the prosecution of this Contract and shall take all necessary measures and be responsible for the proper care and completion and final acceptance by District. All Work shall be solely at Contractor's risk with the exception of damage to the Work caused by "acts of God" as defined in Public Contract Code section 7105.

6.14.7. Contractor shall take, and require Subcontractors to take, all necessary precautions for safety of workers on the Project and shall comply with all applicable federal, state, local, and other safety laws, standards, orders, rules, regulations, and building codes to prevent accidents or injury to persons on, about, or adjacent to premises where Work is being performed and to provide a safe and healthful place of employment. Contractor shall furnish, erect, and properly maintain at all times, all necessary safety devices, safeguards, construction canopies, signs, nets, barriers, lights, and watchmen for protection of workers and the public and shall post danger signs warning against hazards created by such features in the course of construction.

6.14.8. Hazards Control – Contractor shall store volatile wastes in covered metal containers and remove them from the Site daily. Contractor shall prevent accumulation of wastes that create hazardous conditions. Contractor shall provide adequate ventilation during use of volatile or noxious substances.

6.14.9. Contractor shall designate a responsible member of its organization on the Project, whose duty shall be to post information regarding protection and obligations of workers and other notices required under occupational safety and health laws, to comply with reporting and other occupational safety requirements, and to protect the life, safety, and health of workers. Name and position of person so designated shall be reported to District by Contractor.

6.14.10. Contractor shall correct any violations of safety laws, rules, orders, standards, or regulations. Upon the issuance of a citation or notice of violation by the Division of Occupational Safety and Health, Contractor shall correct such violation promptly.

6.14.11. Contractor shall comply with any District storm water requirements that are approved by the District and applicable to the Project, at no additional cost to the District.

6.14.12. In an emergency affecting safety of life or of work or of adjoining property, Contractor, without special instruction or authorization, shall act, at its discretion, to prevent such threatened loss or injury. Any compensation claimed by Contractor on account of emergency work shall be determined by agreement.

6.14.13. All salvage materials will become the property of the Contractor and shall be removed from the Site unless otherwise called for in the Contract Documents. However, the District reserves the right to designate certain items of value that shall be turned over to the District unless otherwise directed by District.

6.14.14. All connections to public utilities and/or existing on-site services shall be made and maintained in such a manner as to not interfere with the continuing use of same by the District during the entire progress of the Work.

6.14.15. Contractor shall provide such heat, covering, and enclosures as are necessary to protect all Work, materials, equipment, appliances, and tools against damage by weather conditions, such as extreme heat, cold, rain, snow, dry winds, flooding, or dampness.

6.14.16. The Contractor shall protect and preserve the Work from all damage or accident, providing any temporary roofs, window and door coverings, boxings, or other construction as required by the Architect. The Contractor shall be responsible for existing structures, walks, roads, trees, landscaping, and/or improvements in working areas; and shall provide adequate protection therefor. If temporary removal is necessary of any of the above items, or damage occurs due to the Work, the Contractor shall replace same at his expense with same kind, quality, and size of Work or item damaged. This shall include any adjoining property of the District and others.

6.14.17. Contractor shall take adequate precautions to protect existing roads, sidewalks, curbs, pavements, utilities, adjoining property, and structures (including, without limitation, protection from settlement or loss of lateral support), and to avoid damage thereto, and repair any damage thereto caused by construction operations.

6.14.18. Contractor shall confine apparatus, the storage of materials, and the operations of workers to limits indicated by law, ordinances, permits, or directions of Architect, and shall not interfere with the Work or unreasonably encumber Premises or overload any structure with materials. Contractor shall enforce all instructions of District and Architect regarding signs, advertising, fires, and smoking, and require that all workers comply with all regulations while on Project Site.

6.14.19. Contractor, Contractor's employees, Subcontractors, Subcontractors' employees, or any person associated with the Work shall conduct themselves in a manner appropriate for a school site. No verbal or physical contact with neighbors, students, and faculty, profanity, or inappropriate attire or behavior will be permitted. District may require Contractor to permanently remove non-complying persons from Project Site.

6.14.20. Contractor shall take care to prevent disturbing or covering any survey markers, monuments, or other devices marking property boundaries or corners. If such markers are disturbed, Contractor shall have a civil engineer, registered as a professional engineer in California, replace them at no cost to District.

6.14.21. In the event that the Contractor enters into any agreement with owners of any adjacent property to enter upon the adjacent property for the purpose of performing the Work, Contractor shall fully indemnify, defend, and hold harmless each person, entity, firm, or agency that owns or has any interest in adjacent property. The form and content of the agreement of indemnification shall be approved by the District prior to the commencement of any Work on or about the adjacent property. The Contractor shall also indemnify the District as provided in the indemnification provision herein. These provisions shall be in addition to any other requirements of the owners of the adjacent property.

6.15. Working Evenings and Weekends

Contractor may be required to work evenings and/or weekends at no additional cost to the District. Contractor shall give the District seventy-two (72) hours notice prior to performing any evening and/or weekend work. Contractor shall perform all evening and/or weekend work only upon District's approval and in compliance with all applicable rules, regulations, laws, and local ordinances including, without limitation, all noise and light limitations. Contractor shall reimburse the District for any Inspector charges necessitated by the Contractor's evening and/or weekend work.

6.16. Cleaning Up

6.16.1. The Contractor shall provide all services, labor, materials, and equipment necessary for protecting the Work, all school occupants, furnishings, equipment, and building structure from damage until its completion and final acceptance by District. Dust barriers shall be provided to isolate dust and dirt from construction operations. At completion of the Work and portions thereof, Contractor shall clean to the original state any areas beyond the Work area that become dust laden as a result of the Work. The Contractor must erect the necessary warning signs and barricades to ensure the safety of all school occupants. The Contractor at all times must maintain good housekeeping practices to reduce the risk of fire damage and must make a fire extinguisher, fire blanket, and/or fire watch, as applicable, available at each location where cutting, braising, soldering, and/or welding is being performed or where there is an increased risk of fire.

6.16.2. Contractor at all times shall keep Premises free from debris such as waste, rubbish, and excess materials and equipment caused by the Work. Contractor shall not leave debris under, in, or about the Premises, but shall promptly remove same from the Premises on a daily basis. If Contractor fails to clean up, District may do so and the cost thereof shall be charged to Contractor. If Contract is for work on an existing facility, Contractor shall also perform specific clean-up on or about the Premises upon request by the District as it deems necessary for the continuing education process. Contractor shall comply with all related provisions of the Specifications.

6.16.3. If the Construction Manager, Architect, or District observes the accumulation of trash and debris, the District will give the Contractor a 24-hour written notice to mitigate the condition.

6.16.4. Should the Contractor fail to perform the required clean-up, or should the clean-up be deemed unsatisfactory by the District, the District will then perform the clean-up. All cost associated with the clean-up work (including all travel, payroll burden, and costs for supervision) will be deducted from the Contract Price, or District may withhold those amounts from payment(s) to Contractor.

7. SUBCONTRACTORS

7.1. Contractor shall provide the District with information for all Subcontracts as indicated in the Contractor's Submittals and Schedules Section herein.

7.2. No contractual relationship exists between the District and any Subcontractor, supplier, or sub-subcontractor by reason of this Contract.

7.3. Contractor agrees to bind every Subcontractor by terms of this Contract as far as those terms are applicable to Subcontractor's work including, without limitation, all labor, wage & hour, apprentice and related provisions and requirements. If Contractor shall subcontract any part of this Contract, Contractor shall be as fully responsible to District for acts and omissions of any Subcontractor and of persons either directly or indirectly employed by any Subcontractor, as it is for acts and omissions of persons directly employed by Contractor. The divisions or sections of the Specifications are not intended to control the Contractor in dividing the Work among Subcontractors or limit the work performed by any trade.

7.4. District's consent to, or approval of, or failure to object to, any Subcontractor under this Contract shall not in any way relieve Contractor of any obligations under this Contract and no such consent shall be deemed to waive any provisions of this Contract.

7.5. Contractor is directed to familiarize itself with sections 4100 through 4114 of the Public Contract Code of the State of California, as regards subletting and subcontracting, and to comply with all applicable requirements therein. In addition, Contractor is directed to familiarize itself with sections 1720 through 1861 of the Labor Code of the State of California, as regards the payment of prevailing wages and related issues, and to comply with all applicable requirements therein all including, without limitation, section 1775 and the Contractor's and Subcontractors' obligations and liability for violations of prevailing wage law and other applicable laws.

7.6. No Contractor whose Bid is accepted shall, without consent of the awarding authority and in full compliance with section 4100, et seq. of the Public Contract Code, and section 1771.1 of the Labor Code, including, without limitation, sections 4107, 4107.5, and 4109 of the Public Contract Code, either:

7.6.1. Substitute any person as a Subcontractor in place of the Subcontractor designated in the original Bid; or

7.6.2. Permit any Subcontract to be assigned or transferred, or allow any portion of the Work to be performed by anyone other than the original Subcontractor listed in the Bid; or

7.6.3. Sublet or subcontract any portion of the Work in excess of one-half of one percent (0.5%) of the Contractor's total bid as to which his original bid did not designate a Subcontractor.

7.7. The Contractor shall be responsible for the coordination of the trades, Subcontractors, sub-subcontractors, and material or equipment suppliers working on the Project.

7.7.1. [Reserved].

7.7.2. Contractor is responsible for ensuring that all Subcontractors are properly registered as public works contractors by the Department of Industrial Relations.

7.8. Contractor is solely responsible for settling any differences between the Contractor and its Subcontractor(s) or between Subcontractors.

7.9. Contractor must include in all of its subcontracts the assignment provisions as indicated in the Termination section of these General Conditions.

8. OTHER CONTRACTS/CONTRACTORS

8.1. District reserves the right to let other contracts, and/or to perform work with its own forces, in connection with the Project. Contractor shall afford other contractors reasonable opportunity for introduction and storage of their materials and execution of their work and shall properly coordinate and connect Contractor's Work with the work of other contractors.

8.2. In addition to Contractor's obligation to protect its own Work, Contractor shall protect the work of any other contractor that Contractor encounters while working on the Project.

8.3. If any part of Contractor's Work depends for proper execution or results upon work of District or any other contractor, the Contractor shall inspect and promptly report to the District in writing before proceeding with its Work any defects in District's or any other contractor's work that render Contractor's Work unsuitable for proper execution and results. Contractor shall be held accountable for damages to District for District's or any other contractor's work that Contractor failed to inspect or should have inspected. Contractor's failure to inspect and report shall constitute Contractor's acceptance of all District's or any other contractor's work as fit and proper for reception of Contractor's Work, except as to defects that may develop in District's or any other contractor's work after execution of Contractor's Work.

8.4. To ensure proper execution of its subsequent work, Contractor shall measure and inspect work already in place and shall at once report to the District in writing any discrepancy between that executed work and the Contract Documents.

8.5. Contractor shall ascertain to its own satisfaction the scope of the Project and nature of District's or any other contracts that have been or may be awarded by District in prosecution of the Project to the end that Contractor may perform this Contract in light of the other contracts, if any.

8.6. Nothing herein contained shall be interpreted as granting to Contractor exclusive occupancy of the Site, the Premises, or of the Project. Contractor shall not cause any unnecessary hindrance or delay to the use and/or school operation(s) of the Premises and/or to District or any other contractor working on the Project. If simultaneous execution of any contract or school operation is likely to cause interference with performance of Contractor's Contract, Contractor shall coordinate with those contractor(s), person(s), and/or entity(s) and shall notify the District of the resolution.

9. DRAWINGS AND SPECIFICATIONS

9.1. A complete list of all Drawings that form a part of the Contract is to be found as an index on the Drawings themselves, and/or may be provided to the Contractor and/or in the Table of Contents.

9.2. Materials or Work described in words that so applied have a well known technical or trade meaning shall be deemed to refer to recognized standards, unless noted otherwise.

9.3. Trade Name or Trade Term. It is not the intention of this Contract to go into detailed descriptions of any materials and/or methods commonly known to the trade under "trade name" or "trade term." The mere mention or notation of "trade name" or "trade term" shall be considered a sufficient notice to Contractor that it will be required to complete the work so named, complete, finished, and operable, with all its appurtenances, according to the best practices of the trade.

9.4. The naming of any material and/or equipment shall mean furnishing and installing of same, including all incidental and accessory items thereto and/or labor therefor, as per best practices of the trade(s) involved, unless specifically noted otherwise.

9.5. Contract Documents are complementary, and what is called for by one shall be binding as if called for by all. As such, Drawings and Specifications are intended to be fully cooperative and to agree. However, if Contractor observes that Drawings and Specifications are in conflict, Contractor shall promptly notify District and Architect in writing, and any necessary changes shall be made as provided in the Contract Documents.

9.6. In the case of discrepancy or ambiguity in the Contract Documents, the order of precedence in the Agreement shall prevail. However, in the case of discrepancy or ambiguity solely between and among the Drawings and Specifications, the discrepancy or ambiguity shall be resolved in favor of the interpretation that will provide District with the functionally complete and operable Project described in the Drawings and Specifications. In case of ambiguity, conflict, or lack of information, District will furnish clarifications with reasonable promptness.

9.7. Drawings and Specifications are intended to comply with all laws, ordinances, rules, and regulations of constituted authorities having jurisdiction, and where referred to in the Contract Documents, the laws, ordinances, rules, and regulations shall be

considered as a part of the Contract within the limits specified. Contractor shall bear all expense of correcting work done contrary to said laws, ordinances, rules, and regulations.

9.8. Ownership of Drawings

All copies of Plans, Drawings, Designs, Specifications, and copies of other incidental architectural and engineering work, or copies of other Contract Documents furnished by District, are the property of District. They are not to be used by Contractor in other work and, with the exception of signed sets of Contract Documents, are to be returned to District on request at completion of Work, or may be used by District as it may require without any additional costs to District. Neither the Contractor nor any Subcontractor, or material or equipment supplier shall own or claim a copyright in the Drawings, Specifications, and other documents prepared by the Architect. District hereby grants the Contractor, Subcontractors, sub-subcontractors, and material or equipment suppliers a limited license to use applicable portions of the Drawings prepared for the Project in the execution of their Work under the Contract Documents.

10. CONTRACTOR'S SUBMITTALS AND SCHEDULES

Contractor's submittals shall comply with the provisions and requirements of the Specifications including, without limitation Submittals.

10.1. Schedule of Work, Schedule of Submittals, and Schedule of Values

10.1.1. Within **TEN (10)** calendar days after the date of the Notice to Award (unless otherwise specified in the Specifications), the Contractor shall prepare and submit to the District for review, in a form supported by sufficient data to substantiate its accuracy as the District may require:

10.1.1.1. Preliminary Schedule. A preliminary schedule of construction indicating the starting and completion dates of the various stages of the Work, including any information and following any form as may be specified in the Specifications. Once approved by District, this shall become the Construction Schedule. This schedule shall include and identify all tasks that are on the Project's critical path with a specific determination of the start and completion of each critical path task as well as all Contract milestones and each milestone's completion date(s) as may be required by the District.

10.1.1.2. Preliminary Schedule of Values. A preliminary schedule of values for all of the Work, which must include quantities and prices of items aggregating the Contract Price and must subdivide the Work into component parts in sufficient detail to serve as the basis for progress payments during construction. Unless the Special Conditions contain different limits, this preliminary schedule of values shall include, at a minimum, the following information and the following structure:

10.1.1.2.1. Divided into at least the following categories:

10.1.1.2.1.1. Overhead and profit;

- 10.1.1.2.1.2.** Supervision;
- 10.1.1.2.1.3.** General conditions;
- 10.1.1.2.1.4.** Layout;
- 10.1.1.2.1.5.** Mobilization;
- 10.1.1.2.1.6.** Submittals;
- 10.1.1.2.1.7.** Bonds and insurance;
- 10.1.1.2.1.8.** Close-out/Certification documentation;
- 10.1.1.2.1.9.** Demolition;
- 10.1.1.2.1.10.** Installation;
- 10.1.1.2.1.11.** Rough-in;
- 10.1.1.2.1.12.** Finishes;
- 10.1.1.2.1.13.** Testing;
- 10.1.1.2.1.14.** Punchlist and acceptance.

10.1.1.2.2. Divided by each of the following areas:

- 10.1.1.2.2.1.** Site work;
- 10.1.1.2.2.2.** By each building;
- 10.1.1.2.2.3.** By each floor.

10.1.1.2.3. The preliminary schedule of values shall not provide for values any greater than the following percentages of the Contract value:

- 10.1.1.2.3.1.** Mobilization and layout combined to equal not more than 1%;
- 10.1.1.2.3.2.** Submittals, samples and shop drawings combined to equal not more than 3%;
- 10.1.1.2.3.3.** Bonds and insurance combined to equal not more than 2%.

10.1.1.2.4. Closeout documentation shall have a value in the preliminary schedule of not less than 5%.

10.1.1.2.5. Notwithstanding any provision of the Contract Documents to the contrary, payment of the Contractor's overhead, supervision, general conditions costs, and profit, as reflected in the Cost Breakdown, shall be paid based on percentage complete, with the disbursement of Progress Payments and the Final Payment.

10.1.1.2.6. Contractor shall certify that the preliminary schedule of values as submitted to the District is accurate and reflects the costs as developed in preparing Contractor's bid. The preliminary schedule of values shall be subject to the District's review and approval of the form and content thereof. In the event that the District objects to any portion of the preliminary schedule of values, the District shall notify the Contractor, in writing, of the District's objection(s) to the preliminary schedule of values. Within five (5) calendar days of the date of the District's written objection(s), Contractor shall submit a revised preliminary schedule of values to the District for review and approval. The foregoing procedure for the preparation, review and approval of

the preliminary schedule of values shall continue until the District has approved the entirety of the preliminary schedule of values.

10.1.1.2.7. Once the preliminary schedule of values is approved by the District, this shall become the Schedule of Values. The Schedule of Values shall not be thereafter modified or amended by the Contractor without the prior consent and approval of the District, which may be granted or withheld in the sole discretion of the District.

10.1.1.3. Preliminary Schedule of Submittals. A preliminary schedule of submittals, including Shop Drawings, Product Data, and Samples submittals. Once approved by District, this shall become the Submittal Schedule. All submittals shall be forwarded to the District by the date indicated on the approved Submittal Schedule, unless an earlier date is necessary to maintain the Construction Schedule, in which case those submittals shall be forwarded to the District so as not to delay the Construction Schedule. Upon request by the District, Contractor shall provide an electronic copy of all submittals to the District.

10.1.1.4. Safety Plan. Contractor's Safety Plan specifically adapted for the Project. Contractor's Safety Plan shall comply with the following requirements:

10.1.1.4.1. All applicable requirements of California Division of Industrial Safety ("CalOSHA") and/or of the United States Occupational Safety and Health Administration ("OSHA").

10.1.1.4.2. All provisions regarding Project safety, including all applicable provisions in these General Conditions.

10.1.1.4.3. Contractor's Safety Plan shall be in English and in the language(s) of the Contractor's and its Subcontractors' employees.

10.1.1.5. Complete Subcontractor List. The name, address, telephone number, facsimile number, California State Contractors License number, classification, and monetary value of all Subcontracts for parties furnishing labor, material, or equipment for completion of the Project.

10.1.2. Contractor must provide all schedules both in hard copy and electronically, in a format (e.g., Microsoft Project or Primavera) approved in advance by the District.

10.1.3. The District will review the schedules submitted and the Contractor shall make changes and corrections in the schedules as requested by the District and resubmit the schedules until approved by the District.

10.1.4. The District shall have the right at any time to revise the schedule of values if, in the District's sole opinion, the schedule of values does not accurately reflect the value of the Work performed.

10.1.5. All submittals and schedules must be approved by the District before Contractor can rely on them as a basis for payment.

10.2. Monthly Progress Schedule(s)

10.2.1. Contractor shall provide Monthly Progress Schedule(s) to the District. A Monthly Progress Schedule shall update the approved Construction Schedule or the last Monthly Progress Schedule, showing all work completed and to be completed. The monthly Progress Schedule shall be sent within the timeframe requested by the District and shall be in a format acceptable to the District and contain a written narrative of the progress of work that month and any changes, delays, or events that may affect the work. The process for District approval of the Monthly Progress Schedule shall be the same as the process for approval of the Construction Schedule.

10.2.2. Contractor shall submit Monthly Progress Schedule(s) with all payment applications.

10.3. Material Safety Data Sheets (MSDS)

Contractor is required to ensure Material Safety Data Sheets are available in a readily accessible place at the Work Site for any material requiring a Material Safety Data Sheet per the Federal "Hazard Communication" standard, or employees right to know law. The Contractor is also required to ensure proper labeling on substance brought onto the job site and that any person working with the material or within the general area of the material is informed of the hazards of the substance and follows proper handling and protection procedures. Two additional copies of the Material Safety Data Sheets shall also be submitted directly to the District.

11. SITE ACCESS, CONDITIONS, AND REQUIREMENTS

11.1. Site Investigation

Before bidding on this Work, Contractor shall make a careful investigation of the Site and thoroughly familiarize itself with the requirements of the Contract. By the act of submitting a bid for the Work included in this Contract, Contractor shall be deemed to have made a complete study and investigation, and to be familiar with and accepted the existing conditions of the Site.

Prior to commencing the Work, Contractor and the District's representative shall survey the Site to document the condition of the Site. Contractor will record the survey in digital videotape format and provide an electronic copy to the District within fourteen (14) days of the survey. This electronic record shall serve as a basis for determining any damages caused by the Contractor during the Project. The Contractor may also document any pre-existing conditions in writing, provided that both the Contractor and the District's representative agree on said conditions and sign a memorandum documenting the same.

11.2. Soils Investigation Report

11.2.1. When a soils investigation report obtained from test holes at Site is available, that report shall be available to the Contractor but shall not be a part of this Contract. Any information obtained from that report or any information given on Drawings as to subsurface soil condition or to elevations of existing grades or elevations of underlying rock is approximate only, is not guaranteed, does not form a part of this Contract, and Contractor may not rely thereon. By submitting its bid, Contractor acknowledges that it has made visual examination of Site and has made whatever tests Contractor deems appropriate to determine underground condition of soil.

11.2.2. Contractor agrees that no claim against District will be made by Contractor for damages and hereby waives any rights to damages if, during progress of Work, Contractor encounters subsurface or latent conditions at Site materially differing from those shown on Drawings or indicated in Specifications, or for unknown conditions of an unusual nature that differ materially from those ordinarily encountered in the work of the character provided for in Plans and Specifications, except as indicated in the provisions of these General Conditions regarding trenches, trenching, and/or existing utility lines.

11.3. Access to Work

District and its representatives shall at all times have access to Work wherever it is in preparation or progress, including storage and fabrication. Contractor shall provide safe and proper facilities for such access so that District's representatives may perform their functions.

11.4. Layout and Field Engineering

11.4.1. All field engineering required for layout of this Work and establishing grades for earthwork operations shall be furnished by Contractor at its expense. This Work shall be done by a qualified, California-registered civil engineer approved in writing by District and Architect. Any required Record and/or As-Built Drawings of Site development shall be prepared by the approved civil engineer.

11.4.2. The Contractor shall be responsible for having ascertained pertinent local conditions such as location, accessibility, and general character of the Site and for having satisfied itself as to the conditions under which the Work is to be performed. Contractor shall follow best practices, including but not limited to pot holing to avoid utilities. District shall not be liable for any claim for allowances because of Contractor's error, failure to follow best practices, or negligence in acquainting itself with the conditions at the Site.

11.4.3. Contractor shall protect and preserve established benchmarks and monuments and shall make no changes in locations without the prior written approval of District. Contractor shall replace any benchmarks or monuments that are lost or destroyed subsequent to proper notification of District and with District's approval.

11.5. Utilities

Utilities shall be provided as indicated in the Specifications.

11.6. Sanitary Facilities

Sanitary facilities shall be provided as indicated in the Specifications.

11.7. Surveys

Contractor shall provide surveys done by a California-licensed civil engineer surveyor to determine locations of construction, grading, and site work as required to perform the Work.

11.8. Regional Notification Center

The Contractor, except in an emergency, shall contact the appropriate regional notification center at least two (2) days prior to commencing any excavation if the excavation will be conducted in an area or in a private easement that is known, or reasonably should be known, to contain subsurface installations other than the underground facilities owned or operated by the District, and obtain an inquiry identification number from that notification center. No excavation shall be commenced and/or carried out by the Contractor unless an inquiry identification number has been assigned to the Contractor or any Subcontractor and the Contractor has given the District the identification number. Any damages arising from Contractor's failure to make appropriate notification shall be at the sole risk and expense of the Contractor. Any delays caused by failure to make appropriate notification shall be at the sole risk of the Contractor and shall not be considered for an extension of the Contract time.

11.9. Existing Utility Lines

11.9.1. Pursuant to Government Code section 4215, District assumes the responsibility for removal, relocation, and protection of main or trunk utility lines and facilities located on the construction Site at the time of commencement of construction under this Contract with respect to any such utility facilities that are not identified in the Plans and Specifications. Contractor shall not be assessed for liquidated damages for delay in completion of the Project caused by failure of District or the owner of a utility to provide for removal or relocation of such utility facilities.

11.9.2. Locations of existing utilities provided by District shall not be considered exact, but approximate within reasonable margin and shall not relieve Contractor of responsibilities to exercise reasonable care costs of repair due to Contractor's failure to do so. District shall compensate Contractor for the costs of locating, repairing damage not due to the failure of Contractor to exercise reasonable care, and removing or relocating such utility facilities not indicated in the Plans and Specifications with reasonable accuracy, and for equipment necessarily idle during such work.

11.9.3. No provision herein shall be construed to preclude assessment against Contractor for any other delays in completion of the Work. Nothing in this Article shall be deemed to require District to indicate the presence of existing service laterals, appurtenances, or other utility lines, within the exception of main or trunk

utility lines. Whenever the presence of these utilities on the Site of the construction Project can be inferred from the presence of other visible facilities, such as buildings, meter junction boxes, on or adjacent to the Site of the construction.

11.9.4. If Contractor, while performing Work under this Contract, discovers utility facilities not identified by District in Contract Plans and Specifications, Contractor shall immediately notify the District and the utility in writing. The cost of repair for damage to above-mentioned visible facilities without prior written notification to the District shall be borne by the Contractor.

11.10. Notification

Contractor understands, acknowledges and agrees that the purpose for prompt notification to the District pursuant to these provisions is to allow the District to investigate the condition(s) so that the District shall have the opportunity to decide how the District desires to proceed as a result of the condition(s). Accordingly, failure of Contractor to promptly notify the District in writing, pursuant to these provisions, shall constitute Contractor's waiver of any claim for damages or delay incurred as a result of the condition(s).

11.11. Hazardous Materials

Contractor shall comply with all provisions and requirements of the Contract Documents related to hazardous materials including, without limitation, Hazardous Materials Procedures and Requirements.

11.12. No Signs

Neither the Contractor nor any other person or entity shall display any signs not required by law or the Contract Documents at the Site, fences trailers, offices, or elsewhere on the Site without specific prior written approval of the District.

12. TRENCHES

12.1. Trenches Greater Than Five Feet

Pursuant to Labor Code section 6705, if the Contract Price exceeds \$25,000 and involves the excavation of any trench or trenches five (5) feet or more in depth, the Contractor shall, in advance of excavation, promptly submit to the District and/or a registered civil or structural engineer employed by the District or Architect, a detailed plan, stamped by a licensed engineer retained by the Contractor, showing the design of shoring for protection from the hazard of caving ground during the excavation of such trench or trenches.

12.2. Excavation Safety

If such plan varies from the Shoring System Standards established by the Construction Safety Orders, the plan shall be prepared by a registered civil or structural engineer, but in no case shall such plan be less effective than that required by the Construction Safety Orders. No excavation of such trench or trenches shall be commenced until said

plan has been accepted by the District or by the person to whom authority to accept has been delegated by the District.

12.3. No Tort Liability of District

Pursuant to Labor Code section 6705, nothing in this Article shall impose tort liability upon the District or any of its employees.

12.4. No Excavation Without Permits

The Contractor shall not commence any excavation Work until it has secured all necessary permits including the required CAL OSHA excavation/shoring permit. Any permits shall be prominently displayed on the Site prior to the commencement of any excavation.

12.5. Discovery of Hazardous Waste and/or Unusual Conditions

12.5.1. Pursuant to Public Contract Code section 7104, if the Work involves digging trenches or other excavations that extend deeper than four feet below the Surface, the Contractor shall promptly, and before the following conditions are disturbed, notify the District, in writing, of any:

12.5.1.1. Material that the Contractor believes may be material that is hazardous waste, as defined in section 25117 of the Health and Safety Code, is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law.

12.5.1.2. Subsurface or latent physical conditions at the Site differing from those indicated.

12.5.1.3. Unknown physical conditions at the Site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract.

12.5.2. The District shall promptly investigate the conditions, and if it finds that the conditions do materially so differ, or do involve hazardous waste, and cause a decrease or increase in the Contractor's cost of, or the time required for, performance of any part of the Work, shall issue a Change Order under the procedures described herein.

12.5.3. In the event that a dispute arises between District and the Contractor whether the conditions materially differ, or involve hazardous waste, or cause a decrease or increase in the Contractor's cost of, or time required for, performance of any part of the Work, the Contractor shall not be excused from any scheduled completion date provided for by the Contract, but shall proceed with all work to be performed under the Contract. The Contractor shall retain any and all rights provided either by Contract or by law that pertain to the resolution of disputes and protests.

13. INSURANCE AND BONDS**13.1. Insurance**

Unless different provisions and/or limits are indicated in the Special Conditions, all insurance required of Contractor and/or its Subcontractor(s) shall be in the amounts and include the provisions set forth herein.

13.1.1. Commercial General Liability and Automobile Liability Insurance

13.1.1.1. Contractor shall procure and maintain, during the life of this Contract, Commercial General Liability Insurance and Automobile Liability Insurance that shall protect Contractor, District, State, Construction Manager(s), Project Inspector(s), and Architect(s) from all claims for bodily injury, property damage, personal injury, death, advertising injury, and medical payments arising from operations under this Contract. This coverage shall be provided in a form at least as broad as Insurance Services (ISO) Form CG 0001 11188. Contractor shall ensure that Products Liability and Completed Operations coverage, Fire Damage Liability, and Any Auto including owned, non-owned, and hired, are included within the above policies and at the required limits, or Contractor shall procure and maintain these coverages separately.

13.1.1.2. Contractor's deductible or self-insured retention for its Commercial General Liability Insurance policy shall not exceed \$25,000 unless approved in writing by District.

13.1.1.3. All such policies shall be written on an occurrence form.

13.1.2. Excess Liability Insurance

13.1.2.1. Contractor may procure and maintain, during the life of this Contract, an Excess Liability Insurance Policy to meet the policy limit requirements of the required policies if Contractor's underlying policy limits are less than required.

13.1.2.2. There shall be no gap between the per occurrence amount of any underlying policy and the start of the coverage under the Excess Liability Insurance Policy. Any Umbrella or Excess Liability Insurance Policy shall be written on a following form and shall protect Contractor, District, State, Construction Manager(s), Project Manager(s), and Architect(s) in amounts and including the provisions as set forth in the Supplementary Conditions (if any) and/or Special Conditions, and that complies with all requirements for Commercial General Liability and Automobile Liability and Employers' Liability Insurance.

13.1.3. Subcontractor(s): Contractor shall require its Subcontractor(s), if any, to procure and maintain Commercial General Liability Insurance, Automobile Liability Insurance, and Excess Liability Insurance (if Subcontractor elects to satisfy, in part the insurance required herein by procuring and maintaining an Excess Liability

Insurance Policy) with forms of coverage and limits equal to the amounts required of the Contractor.

13.1.4. Workers' Compensation and Employers' Liability Insurance

13.1.4.1. In accordance with provisions of section 3700 of the California Labor Code, the Contractor and every Subcontractor shall be required to secure the payment of compensation to its employees.

13.1.4.2. Contractor shall procure and maintain, during the life of this Contract, Workers' Compensation Insurance and Employers' Liability Insurance for all of its employees engaged in work under this Contract, on/or at the Site of the Project. This coverage shall cover, at a minimum, medical and surgical treatment, disability benefits, rehabilitation therapy, and survivors' death benefits. Contractor shall require its Subcontractor(s), if any, to procure and maintain Workers' Compensation Insurance and Employers' Liability Insurance for all employees of Subcontractor(s). Any class of employee or employees not covered by a Subcontractor's insurance shall be covered by Contractor's insurance. If any class of employee or employee engaged in Work under this Contract, on or at the Site of the Project, is not protected under the Workers' Compensation Insurance, Contractor shall provide, or shall cause a Subcontractor to provide, adequate insurance coverage for the protection of any employee(s) not otherwise protected before any of those employee(s) commence work.

13.1.5. Builder's Risk Insurance: Builder's Risk "All Risk" Insurance

Contractor shall procure and maintain, during the life of this Contract, Builder's Risk (Course of Construction), or similar first party property coverage acceptable to the District, issued on a replacement cost value basis. The cost shall be consistent with the total replacement cost of all insurable Work of the Project included within the Contract Documents. Coverage is to insure against all risks of accidental physical loss and shall include without limitation the perils of vandalism and/or malicious mischief (both without any limitation regarding vacancy or occupancy), sprinkler leakage, civil authority, theft, sonic disturbance, earthquake, flood, collapse, wind, fire, war, terrorism, lightning, smoke, and rioting. Coverage shall include debris removal, demolition, increased costs due to enforcement of all applicable ordinances and/or laws in the repair and replacement of damaged and undamaged portions of the property, and reasonable costs for the Architect's and engineering services and expenses required as a result of any insured loss upon the Work and Project, including completed Work and Work in progress, to the full insurable value thereof.

13.1.6. Pollution Liability Insurance

13.1.6.1. Contractor shall procure and maintain Pollution Liability Insurance that shall protect Contractor, District, State, Construction Manager(s), Project Inspector(s), and Architect(s) from all claims for bodily injury, property damage, including natural resource damage, cleanup costs, removal, storage, disposal, and/or use of the pollutant arising from operations under this Contract, and defense, including costs and expenses incurred in the investigation, defense, or settlement of claims. Coverage shall apply to sudden and/or gradual pollution

conditions resulting from the escape or release of smoke, vapors, fumes, acids, alkalis, toxic chemicals, liquids, or gases, natural gas, waste materials, or other irritants, contaminants, or pollutants, including asbestos. This coverage shall be provided in a form at least as broad as Insurance Services (ISO) Form CG 2415, or Contractor shall procure and maintain these coverages separately.

13.1.6.2. Contractor shall warrant that any retroactive date applicable to coverage under the policy predates the effective date of the Contract and that continuous coverage will be maintained or an extended reporting or discovery period will be exercised for a period of three (3) years, beginning from the time that the Work under the Contract is completed.

13.1.6.3. If Contractor is responsible for removing any pollutants from a site, then Contractor shall ensure that Any Auto, including owned, non-owned, and hired, are included within the above policies and at the required limits, to cover its automobile exposure from transporting the pollutants from the site to an approved disposal site. This coverage shall include the Motor Carrier Act Endorsement, MCS 90.

13.1.7. Proof of Carriage of Insurance and Other Requirements: Endorsements and Certificates

13.1.7.1. Contractor shall not commence Work nor shall it allow any Subcontractor to commence Work under this Contract, until Contractor and its Subcontractor(s) have procured all required insurance and Contractor has delivered in duplicate to the District complete endorsements (or entire insurance policies) and certificates indicating the required coverages have been obtained, and the District has approved these documents.

13.1.7.2. Endorsements, certificates, and insurance policies shall include the following:

13.1.7.2.1. A clause stating:

“This policy shall not be amended, canceled or modified and the coverage amounts shall not be reduced until notice has been mailed to District, Architect, and Construction Manager stating date of amendment, modification, cancellation or reduction. Date of amendment, modification, cancellation or reduction may not be less than thirty (30) days after date of mailing notice.”

13.1.7.2.2. Language stating in particular those insured, extent of insurance, location and operation to which insurance applies, expiration date, to whom cancellation and reduction notice will be sent, and length of notice period.

13.1.7.3. All endorsements, certificates and insurance policies shall state that District, its trustees, employees and agents, the State of California, Construction Manager(s), Project Manager(s), Inspector(s) and Architect(s) are named

additional insureds under all policies except Workers' Compensation Insurance and Employers' Liability Insurance.

13.1.7.4. Insurance written on a "claims made" basis is to be renewed by the Contractor and all Subcontractors for a period of five (5) years following completion of the Work or termination of this Agreement. Such insurance must have the same coverage and limits as the policy that was in effect during the term of this Agreement, and will cover the Contractor and all Subcontractors for all claims made.

13.1.7.5. Contractor's and Subcontractors' insurance policy(s) shall be primary and non-contributory to any insurance or self-insurance maintained by District, its trustees, employees and/or agents, the State of California, Construction Manager(s), Project Manager(s), Inspector(s), and/or Architect(s).

13.1.7.6. All endorsements shall waive any right to subrogation against any of the named additional insureds.

13.1.7.7. Unless otherwise stated in the Special Conditions, all of Contractor's insurance shall be with insurance companies with an A.M. Best rating of no less than **A: VII.**

13.1.7.8. The insurance requirements set forth herein shall in no way limit the Contractor's liability arising out of or relating to the performance of the Work or related activities.

13.1.7.9. Failure of Contractor and/or its Subcontractor(s) to comply with the insurance requirements herein shall be deemed a material breach of the Agreement.

13.1.8. Insurance Policy Limits

Unless different limits are indicated in the Special Conditions, the limits of insurance shall not be less than the following amounts:

Commercial General Liability	Product Liability and Completed Operations, Fire Damage Liability – Split Limit	\$2,000,000 per occurrence; \$4,000,000 aggregate
Automobile Liability – Any Auto	Combined Single Limit	\$1,000,000
Workers Compensation		Statutory limits pursuant to State law
Employers’ Liability		\$1,000,000
Builder’s Risk (Course of Construction)		Issued for the value and scope of Work indicated herein.
Pollution Liability		\$1,000,000 per claim; \$2,000,000 aggregate

13.2. Contract Security - Bonds

13.2.1. Contractor shall furnish two surety bonds issued by a California admitted surety insurer as follows:

13.2.1.1. Performance Bond: A bond in an amount at least equal to one hundred percent (100%) of Contract Price as security for faithful performance of this Contract.

13.2.1.2. Payment Bond: A bond in an amount at least equal to one hundred percent (100%) of the Contract Price as security for payment of persons performing labor and/or furnishing materials in connection with this Contract.

13.2.2. Cost of bonds shall be included in the Bid and Contract Price.

13.2.3. All bonds related to this Project shall be in the forms set forth in these Contract Documents and shall comply with all requirements of the Contract Documents, including, without limitation, the bond forms.

14. WARRANTY/GUARANTEE/INDEMNITY

14.1. Warranty/Guarantee

14.1.1. The Contractor shall obtain and preserve for the benefit of the District, manufacturer’s warranties on materials, fixtures, and equipment incorporated into the Work.

14.1.2. In addition to guarantees required elsewhere, Contractor shall, and hereby does guarantee and warrant all Work furnished on the job against all defects for a period of **ONE (1)** year after the later of the following dates:

14.1.2.1. The date of completion as defined in Public Contract Code section 7107, subdivision (c), or

14.1.2.2. The commissioning date for the Project, if any.

At the District's sole option, Contractor shall repair or replace any and all of that Work, together with any other Work that may be displaced in so doing, that may prove defective in workmanship and/or materials within a **ONE (1)** year period from date of completion as defined above without expense whatsoever to District. In the event of failure of Contractor and/or Surety to commence and pursue with diligence said replacements or repairs within ten (10) days after being notified in writing, Contractor and Surety hereby acknowledge and agree that District is authorized to proceed to have defects repaired and made good at expense of Contractor and/or Surety who hereby agree to pay costs and charges therefore immediately on demand.

14.1.3. If, in the opinion of District, defective work creates a dangerous condition or requires immediate correction or attention to prevent further loss to District or to prevent interruption of operations of District, District will attempt to give the notice required above. If Contractor or Surety cannot be contacted or neither complies with District's request for correction within a reasonable time as determined by District, District may, notwithstanding the above provision, proceed to make any and all corrections and/or provide attentions the District believes are necessary. The costs of correction or attention shall be charged against Contractor and Surety of the guarantees provided in this Article or elsewhere in this Contract.

14.1.4. The above provisions do not in any way limit the guarantees on any items for which a longer guarantee is specified or on any items for which a manufacturer gives a guarantee for a longer period. Contractor shall furnish to District all appropriate guarantee or warranty certificates as indicated in the Specifications or upon request by District.

14.1.5. Nothing herein shall limit any other rights or remedies available to District.

14.2. Indemnity

14.2.1. To the furthest extent permitted by California law, the Contractor shall indemnify, defend with legal counsel reasonably acceptable to the District, keep and hold harmless the District, the Architect, and the Construction Manager, their consultants and separate contractors, and their respective board members, officers, representatives, contractors, agents, and employees, in both individual and official capacities ("Indemnitees"), against all suits, claims, damages, losses, and expenses, including but not limited to attorney's fees, caused by, arising out of, resulting from, or incidental to, the performance of the Work under this Contract by the Contractor, its Subcontractors, vendors, or suppliers, except to the extent caused by the sole negligence, active negligence, or willful misconduct of the Indemnitees, and/or to

any extent that would render these provisions void or unenforceable. This agreement and obligation of the Contractor shall not be construed to negate, abridge, or otherwise reduce any right or obligation of indemnity that would otherwise exist as to any party or person described herein. This indemnification, defense, and hold harmless obligation includes any failure or alleged failure by Contractor to comply with any provision of law, any failure or alleged failure to timely and properly fulfill all of its obligations under the Contract Documents in strict accordance with their terms, and without limitation, any stop payment notice actions or liens, including Civil Wage and Penalty Assessments and/or Orders by the California Department of Industrial Relations.

14.2.2. The Contractor shall give prompt notice to the District in the event of any injury (including death), loss, or damage included herein. Without limitation of the provisions herein, if the Contractor's agreement to indemnify, defend, and hold harmless the Indemnitees as provided herein shall be determined to be void or unenforceable, in whole or in part, it is the intention of the parties that these circumstances shall not otherwise affect the validity or enforceability of the Contractor's agreement to indemnify, defend, and hold harmless the rest of the Indemnitees, as provided herein. Further, the Contractor shall be and remain fully liable on its agreements and obligations herein to the full extent permitted by law.

14.2.3. In any and all claims against any of the Indemnitees by any employee of the Contractor, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the Contractor's indemnification obligation herein shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the Contractor or any Subcontractor under workers' compensation acts, disability benefit acts, or other employee benefit acts.

14.2.4. The District may retain so much of the moneys due the Contractor as shall be considered necessary, until disposition of any such suit, claims or actions for damages or until the District, Architect and Construction Manager have received written agreement from the Contractor that they will unconditionally defend the District, Architect and Construction Manager, their officers, agents and employees, and pay any damages due by reason of settlement or judgment.

14.2.5. The defense and indemnification obligations hereunder shall survive the completion of Work, including the warranty/guarantee period, and/or the termination of the Agreement.

15. TIME

15.1. Notice to Proceed

15.1.1. District may issue a Notice to Proceed within three (3) months from the date of the Notice of Award. Once Contractor has received the Notice to Proceed, Contractor shall complete the Work within the period of time indicated in the Contract Documents.

15.1.2. In the event that the District desires to postpone issuing the Notice to Proceed beyond this 3-month period, it is expressly understood that with reasonable notice to the Contractor, the District may postpone issuing the Notice to Proceed. It is further expressly understood by Contractor that Contractor shall not be entitled to any claim of additional compensation as a result of the postponement of the issuance of the Notice to Proceed.

15.1.3. If the Contractor believes that a postponement of issuance of the Notice to Proceed will cause a hardship to Contractor, Contractor may terminate the Contract. Contractor's termination due to a postponement shall be by written notice to District within ten (10) days after receipt by Contractor of District's notice of postponement. It is further understood by Contractor that in the event that Contractor terminates the Contract as a result of postponement by the District, the District shall only be obligated to pay Contractor for the Work that Contractor had performed at the time of notification of postponement. Should Contractor terminate the Contract as a result of a notice of postponement, District shall have the authority to award the Contract to the next lowest responsive responsible bidder.

15.2. Computation of Time / Adverse Weather

15.2.1. The Contractor will only be allowed a time extension for Adverse Weather conditions if requested by Contractor and only if all of the following conditions are met:

15.2.1.1. The weather conditions constitute Adverse Weather, as defined herein and further specified in the Special Conditions;

15.2.1.2. Contractor can verify that the Adverse Weather caused delays in excess of five hours of the indicated labor required to complete the scheduled tasks of Work on the day affected by the Adverse Weather;

15.2.1.3. The Contractor's crew is dismissed as a result of the Adverse Weather;

15.2.1.4. Said delay adversely affects the critical path in the Construction Schedule; and

15.2.1.5. The number of days of delay for the month exceeds those indicated in the Special Conditions.

15.2.2. If the aforementioned conditions are met, a day-for-day extension will only be allowed for those days in excess of those indicated in the Special Conditions.

15.2.3. The Contractor shall work seven (7) days per week, if necessary, irrespective of inclement weather, to maintain access and the Construction Schedule, and to protect the Work under construction from the effects of Adverse Weather, all at no further cost to the District.

15.2.4. The Contract Time has been determined with consideration given to the average climate weather conditions prevailing in the County in which the Project is located.

15.3. Hours of Work

15.3.1. Sufficient Forces

Contractor and Subcontractors shall continuously furnish sufficient forces to ensure the prosecution of the Work in accordance with the Construction Schedule.

15.3.2. Performance During Working Hours

Work shall be performed during regular working hours as permitted by the appropriate governmental agency except that in the event of an emergency, or when required to complete the Work in accordance with job progress, Work may be performed outside of regular working hours with the advance written consent of the District and approval of any required governmental agencies.

15.4. Progress and Completion

15.4.1. Time of the Essence

Time limits stated in the Contract Documents are of the essence to the Contract. By executing the Agreement, the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

15.4.2. No Commencement Without Insurance or Bonds

The Contractor shall not commence operations on the Project or elsewhere prior to the effective date of insurance and bonds. The date of commencement of the Work shall not be changed by the effective date of such insurance or bonds. If Contractor commences Work without insurance and bonds, all Work is performed at Contractor's peril and shall not be compensable until and unless Contractor secures bonds and insurance pursuant to the terms of the Contract Documents and subject to District claim for damages.

15.5. Schedule

Contractor shall provide to District, Construction Manager, and Architect a schedule in conformance with the Contract Documents and as required in the Notice to Proceed and the Contractor's Submittals and Schedules section of these General Conditions.

15.6. Expeditious Completion

The Contractor shall proceed expeditiously with adequate forces and shall achieve Completion within the Contract Time.

16. EXTENSIONS OF TIME – LIQUIDATED DAMAGES

16.1. Liquidated Damages

Contractor and District hereby agree that the exact amount of damages for failure to complete the Work within the time specified is extremely difficult or impossible to determine. If the Work is not completed within the time specified in the Contract Documents, it is understood that the District will suffer damage. It being impractical and unfeasible to determine the amount of actual damage, it is agreed the Contractor shall pay to District as fixed and liquidated damages, and not as a penalty, the amount set forth in the Agreement for each calendar day of delay in completion. Contractor and its Surety shall be liable for the amount thereof pursuant to Government Code section 53069.85.

16.2. Excusable Delay

16.2.1. Contractor shall not be charged for liquidated damages because of any delays in completion of Work which are not the fault of Contractor or its Subcontractors, including acts of God as defined in Public Contract Code section 7105, acts of enemy, epidemics, and quarantine restrictions. Contractor shall, within five (5) calendar days of beginning of any delay, notify District in writing of causes of delay including documentation and facts explaining the delay. District shall review the facts and extent of any delay and shall grant extension(s) of time for completing Work when, in its judgment, the findings of fact justify an extension. Extension(s) of time shall apply only to that portion of Work affected by delay, and shall not apply to other portions of Work not so affected. An extension of time may only be granted if Contractor has timely submitted the Construction Schedule as required herein.

16.2.2. Contractor shall notify the District pursuant to the claims provisions in these General Conditions of any anticipated delay and its cause. Following submission of a claim, the District may determine whether the delay is to be considered avoidable or unavoidable, how long it continues, and to what extent the prosecution and completion of the Work might be delayed thereby.

16.2.3. In the event the Contractor requests an extension of Contract Time for unavoidable delay, such request shall be submitted in accordance with the provisions in the Contract Documents governing changes in Work. When requesting time, requests must be submitted with full justification and documentation. If the Contractor fails to submit justification, it waives its right to a time extension at a later date. Such justification must be based on the official Construction Schedule as updated at the time of occurrence of the delay or execution of Work related to any changes to the Scope of Work. Any claim for delay must include the following information as support, without limitation:

16.2.3.1. The duration of the activity relating to the changes in the Work and the resources (manpower, equipment, material, etc.) required to perform the activities within the stated duration.

16.2.3.2. Specific logical ties to the Contract Schedule for the proposed changes and/or delay showing the activity/activities in the Construction Schedule that are affected by the change and/or delay. (A portion of any delay of seven (7) days or more must be provided.)

16.2.3.3. A recovery schedule must be submitted within twenty (20) calendar days of written notification to the District of causes of delay.

16.3. No Additional Compensation for Delays Within Contractor's Control

16.3.1. Contractor is aware that governmental agencies, including, without limitation, the Division of the State Architect, the Department of General Services, gas companies, electrical utility companies, water districts, and other agencies may have to approve Contractor-prepared drawings or approve a proposed installation. Accordingly, Contractor shall include in its bid, time for possible review of its drawings and for reasonable delays and damages that may be caused by such agencies. Thus, Contractor is not entitled to make a claim for damages or delays arising from the review of Contractor's drawings.

16.3.2. Contractor shall only be entitled to compensation for delay when all of the following conditions are met:

16.3.2.1. The District is responsible for the delay;

16.3.2.2. The delay is unreasonable under the circumstances involved;

16.3.2.3. The delay was not within the contemplation of the District and Contractor; and

16.3.2.4. Contractor complies with the claims procedure of the Contract Documents.

16.4. Float or Slack in the Schedule

Float or slack is the amount of time between the early start date and the late start date, or the early finish date and the late finish date, of any of the activities in the schedule. Float or slack is not for the exclusive use of or benefit of either the District or the Contractor, but its use shall be determined solely by the District.

17. CHANGES IN THE WORK

17.1. No Changes Without Authorization

17.1.1. There shall be no change whatsoever in the Drawings, Specifications, or in the Work without an executed Change Order or a written Construction Change Directive authorized by the District as herein provided. District shall not be liable for the cost of any extra work or any substitutions, changes, additions, omissions, or deviations from the Drawings and Specifications unless the District's governing board has authorized the same and the cost thereof has been approved in writing by Change Order or Construction Change Directive. No extension of time for performance of the Work shall be allowed hereunder unless claim for such extension is made at the time changes in the Work are ordered, and such time duly adjusted in writing in the Change Order or Construction Change Directive. Contractor shall be responsible for any costs incurred by the District for professional services and DSA

fees and/or delay to the Project Schedule, if any, for DSA to review any request for changes to the DSA approved plans and specifications for the convenience of the Contractor and/or to accommodate the Contractor's means and methods. The provisions of the Contract Documents shall apply to all such changes, additions, and omissions with the same effect as if originally embodied in the Drawings and Specifications.

17.1.2. Contractor shall perform immediately all work that has been authorized by a fully executed Change Order or Construction Change Directive. Contractor shall be fully responsible for any and all delays and/or expenses caused by Contractor's failure to expeditiously perform this Work.

17.1.3. Should any Change Order result in an increase in the Contract Price, the cost of that Change Order shall be agreed to, in writing, in advance by Contractor and District and be subject to the monetary limitations set forth in Public Contract Code section 20118.4. In the event that Contractor proceeds with any change in Work without a Change Order executed by the District or Construction Change Directive, Contractor waives any claim of additional compensation or time for that additional work.

17.1.4. Contractor understands, acknowledges, and agrees that the reason for District authorization is so that District may have an opportunity to analyze the Work and decide whether the District shall proceed with the Change Order or alter the Project so that a change in Work becomes unnecessary.

17.2. Architect Authority

The Architect will have authority to order minor changes in the Work not involving any adjustment in the Contract Price, or an extension of the Contract Time, or a change that is inconsistent with the intent of the Contract Documents. These changes shall be effected by written Change Order, Construction Change Directive, or by Architect's response(s) to RFI(s)) by Architect's Supplemental Instructions ("ASI").

17.3. Change Orders

17.3.1. A Change Order is a written instrument prepared and issued by the District and/or the Architect and signed by the District (as authorized by the District's Board of Trustees), the Contractor, the Architect, and approved by the Project Inspector (if necessary) and DSA (if necessary), stating their agreement regarding all of the following:

17.3.1.1. A description of a change in the Work;

17.3.1.2. The amount of the adjustment in the Contract Price, if any; and

17.3.1.3. The extent of the adjustment in the Contract Time, if any.

17.4. Construction Change Directives

17.4.1. A Construction Change Directive is a written order prepared and issued by the District, the Construction Manager, and/or the Architect and signed by the District and the Architect, directing a change in the Work. The District may as provided by law, by Construction Change Directive and without invalidating the Contract, order changes in the Work consisting of additions, deletions, or other revisions. The adjustment to the Contract Price or Time, if any, is subject to the provisions of this section regarding Changes in the Work. If all or a portion of the Project is being funded by funds requiring approval by the State Allocation Board (SAB), these revisions may be subject to compensation once approval of same is received and funded by the SAB, and funds are released by the Office of Public School Construction (OPSC). Any dispute as to the adjustment in the Contract Price, if any, of the Construction Change Directive or timing of payment shall be resolved pursuant to the Payment and Claims and Disputes provisions herein.

17.4.2. The District may issue a Construction Change Directive in the absence of agreement on the terms of a Change Order.

17.5. Force Account Directives

17.5.1. When work, for which a definite price has not been agreed upon in advance, is to be paid for on a force account basis, all direct costs necessarily incurred and paid by the Contractor for labor, material, and equipment used in the performance of that Work, shall be subject to the approval of the District and compensation will be determined as set forth herein.

17.5.2. The District will issue a Force Account Directive to proceed with the Work on a force account basis, and a not-to-exceed budget will be established by the District.

17.5.3. All requirements regarding direct cost for labor, labor burden, material, equipment, and markups on direct costs for overhead and profit described in this section shall apply to Force Account Directives. However, the District will only pay for actual costs verified in the field by the District or its authorized representative(s) on a daily basis.

17.5.4. The Contractor shall be responsible for all cost related to the administration of Force Account Directive. The markup for overhead and profit for Contractor modifications shall be full compensation to the Contractor to administer Force Account Directive.

17.5.5. The Contractor shall notify the District or its authorized representative(s) at least twenty-four (24) hours prior to proceeding with any of the force account work. Furthermore, the Contractor shall notify the District when it has consumed eighty percent (80%) of the budget, and shall not exceed the budget unless specifically authorized in writing by the District. The Contractor will not be compensated for force account work in the event that the Contractor fails to timely notify the District regarding the commencement of force account work, or exceeding the force account budget.

17.5.6. The Contractor shall diligently proceed with the work, and on a daily basis, submit a daily force account report on a form supplied by the District no later than 5:00 p.m. each day. The report shall contain a detailed itemization of the daily labor, material, and equipment used on the force account work only. The names of the individuals performing the force account work shall be included on the daily force account reports. The type and model of equipment shall be identified and listed. The District will review the information contained in the reports, and sign the reports no later than the next work day, and return a copy of the report to the Contractor for their records. The District will not sign, nor will the Contractor receive compensation for work the District cannot verify. The Contractor will provide a weekly force account summary indicating the status of each Force Account Directive in terms of percent complete of the not-to-exceed budget and the estimated percent complete of the work

17.5.7. In the event the Contractor and the District reach a written agreement on a set cost for the work while the work is proceeding based on a Force Account Directive, the Contractor's signed daily force account reports shall be discontinued and all previously signed reports shall be invalid.

17.6. Price Request

17.6.1. Definition of Price Request

A Price Request ("PR") is a written request prepared by the Architect requesting the Contractor to submit to the District and the Architect an estimate of the effect of a proposed change in the Work on the Contract Price and the Contract Time.

17.6.2. Scope of Price Request

A Price Request shall contain adequate information, including any necessary Drawings and Specifications, to enable Contractor to provide the cost breakdowns required herein. The Contractor shall not be entitled to any additional compensation for preparing a response to a Price Request, whether ultimately accepted or not.

17.7. Proposed Change Order

17.7.1. Definition of Proposed Change Order

A Proposed Change Order ("PCO") is a written request prepared by the Contractor requesting that the District and the Architect issue a Change Order based upon a proposed change to the Work.

17.7.2. Changes in Contract Price

A PCO shall include breakdowns pursuant to the revisions herein to validate any change in Contract Price. In no case shall Contractor or any of its Subcontractors be permitted to reserve rights for additional compensation for Change Order Work.

17.7.3. Changes in Time

A PCO shall also include any changes in time required to complete the Project. Any additional time requested shall not be the number of days to make the proposed change, but must be based upon the impact to the Construction Schedule as defined in the Contract Documents. If Contractor fails to request a time extension in a PCO, then the Contractor is thereafter precluded from requesting time and/or claiming a delay. In no case shall Contractor or any of its Subcontractors be permitted to reserve rights for additional time for Change Order Work.

17.7.4. Unknown and/or Unforeseen Conditions

If Contractor submits a PCO requesting an increase in Contract Price and/or Contract Time that is based at least partially on Contractor's assertion that Contractor has encountered unknown and/or unforeseen condition(s) on the Project, then Contractor shall base the PCO on provable information that, beyond a reasonable doubt and to the District's satisfaction, demonstrates that the unknown and/or unforeseen condition(s) were actually unknown and/or unforeseen and that the condition(s) were reasonably unknown and/or unforeseen. If not, the District shall deny the PCO and the Contractor shall complete the Project without any increase in Contract Price and/or Contract Time based on that PCO.

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17.8. Format for Proposed Change Order

17.8.1. The following format shall be used as applicable by the District and the Contractor (e.g. Change Orders, PCO’s) to communicate proposed additions and deductions to the Contract, supported by attached documentation. Any spaces left blank will be deemed no change to cost or time.

	<u>WORK PERFORMED OTHER THAN BY CONTRACTOR</u>	<u>ADD</u>	<u>DEDUCT</u>
(a)	Material (attach itemized quantity and unit cost plus sales tax)		
(b)	Add Labor (attach itemized hours and rates, fully encumbered)		
(c)	Add Equipment (attach suppliers’ invoice)		
(d)	Subtotal		
(e)	Add overhead and profit for any and all tiers of Subcontractor , the total not to exceed ten percent (10%) of Item (d)		
(f)	Subtotal		
(g)	Add overhead and profit for Contractor , not to exceed five percent (5%) of Item (f)		
(h)	Subtotal		
(i)	Add Bond and Insurance , not to exceed one and a half percent (1.5%) of Item (h)		
(j)	TOTAL		
(k)	Time (zero unless indicated)		<u> </u> Calendar Days

	<u>WORK PERFORMED BY CONTRACTOR</u>	<u>ADD</u>	<u>DEDUCT</u>
(a)	Material (attach itemized quantity and unit cost plus sales tax)		
(b)	Add Labor (attach itemized hours and rates, fully encumbered)		
(c)	Add Equipment (attach suppliers’ invoice)		
(d)	Subtotal		
(e)	Add overhead and profit for Contractor , not to exceed fifteen percent (15%) of Item (d)		
(f)	Subtotal		
(g)	Add Bond and Insurance , not to exceed one and a half percent (1.5%) of Item (f)		
(h)	TOTAL		
(i)	Time (zero unless indicated)		<u> </u> Calendar Days

	<u>WORK PERFORMED OTHER THAN BY CONTRACTOR</u>	<u>ADD</u>	<u>DEDUCT</u>
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(a)	Material (attach itemized quantity and unit cost plus sales tax)		
(b)	Add Labor (attach itemized hours and rates, fully encumbered)		
(c)	Add Equipment (attach suppliers' invoice)		
(d)	Subtotal		
(e)	Add overhead and profit for any and all tiers of Subcontractor , the total not to exceed ten percent (10%) of Item (d)		
(f)	Subtotal		
(g)	Add overhead and profit for Contractor , not to exceed five percent (5%) of Item (f)		
(h)	Subtotal		
(i)	Add Bond and Insurance , not to exceed one and a half percent (1.5%) of Item (h)		
(j)	TOTAL		
(k)	Time (zero unless indicated)		<u> </u> Calendar Days

	<u>WORK PERFORMED BY CONTRACTOR</u>	<u>ADD</u>	<u>DEDUCT</u>
(a)	Material (attach itemized quantity and unit cost plus sales tax)		
(b)	Add Labor (attach itemized hours and rates, fully encumbered)		
(c)	Add Equipment (attach suppliers' invoice)		
(d)	Subtotal		
(e)	Add overhead and profit for Contractor , not to exceed fifteen percent (15%) of Item (d)		
(f)	Subtotal		
(g)	Add Bond and Insurance , not to exceed one and a half percent (1.5%) of Item (f)		
(h)	TOTAL		
(i)	Time (zero unless indicated)		<u> </u> Calendar Days

17.8.2. Labor. Contractor shall be compensated for the costs of labor actually and directly utilized in the performance of the Work. Such labor costs shall be limited to field labor for which there is a prevailing wage rate classification. Wage rates for labor shall not exceed the prevailing wage rates in the locality of the Site and shall be in the labor classification(s) necessary for the performance of the Work. Labor costs shall exclude costs incurred by the Contractor in preparing estimate(s) of the costs of the change in the Work, in the maintenance of records relating to the costs of the change in the Work, coordination and assembly of materials and information relating to the change in the Work or performance thereof, or the supervision and other overhead and general conditions costs associated with the change in the Work or performance thereof, including but not limited to the cost for the job superintendent.

17.8.3. Materials. Contractor shall be compensated for the costs of materials necessarily and actually used or consumed in connection with the performance of the change in the Work. Costs of materials may include reasonable costs of transportation from a source closest to the Site of the Work and delivery to the Site. If discounts by material suppliers are available for materials necessarily used in the performance of the change in the Work, they shall be credited to the District. If materials necessarily used in the performance of the change in the Work are obtained from a supplier or source owned in whole or in part by the Contractor, compensation therefor shall not exceed the current wholesale price for such materials. If, in the reasonable opinion of the District, the costs asserted by the Contractor for materials in connection with any change in the Work are excessive, or if the Contractor fails to provide satisfactory evidence of the actual costs of such materials from its supplier or vendor of the same, the costs of such materials and the District's obligation to pay for the same shall be limited to the then lowest wholesale price at which similar materials are available in the quantities required to perform the change in the Work. The District may elect to furnish materials for the change in the Work, in which event the Contractor shall not be compensated for the costs of furnishing such materials or any mark-up thereon.

17.8.4. Equipment. As a precondition for the District's duty to pay for Equipment rental or loading and transportation, Contractor shall provide satisfactory evidence of the actual costs of Equipment from the supplier, vendor or rental agency of same. Contractor shall be compensated for the actual cost of the necessary and direct use of Equipment in the performance of the change in the Work. Use of such Equipment in the performance of the change in the Work shall be compensated in increments of fifteen (15) minutes. Rental time for Equipment moved by its own power shall include time required to move such Equipment to the site of the Work from the nearest available rental source of the same. If Equipment is not moved to the Site by its own power, Contractor will be compensated for the loading and transportation costs in lieu of rental time. The foregoing notwithstanding, neither moving time or loading and transportation time shall be allowed if the Equipment is used for performance of any portion of the Work other than the change in the Work. Unless prior approval in writing is obtained by the Contractor from the Architect, the Project Inspector and the District, no costs or compensation shall be allowed for time while Construction Equipment is inoperative, idle or on standby, for any reason. Contractor shall not be entitled to an allowance or any other compensation for Equipment or tools used in the performance of change in the Work where such

Equipment or tools have a replacement value of **\$500.00** or less. Equipment costs claimed by the Contractor in connection with the performance of any Work shall not exceed rental rates established by distributors or construction equipment rental agencies in the locality of the Site; any costs asserted which exceed such rental rates shall not be allowed or paid. Unless otherwise specifically approved in writing by the Architect, the Project Inspector and the District, the allowable rate for the use of Equipment in connection with the Work shall constitute full compensation to the Contractor for the cost of rental, fuel, power, oil, lubrication, supplies, necessary attachments, repairs or maintenance of any kind, depreciation, storage, insurance, labor (exclusive of labor costs of the Equipment operator), and any and all other costs incurred by the Contractor incidental to the use of such Equipment.

17.9. Change Order Certification

17.9.1. All Change Orders and PCOs must include the following certification by the Contractor:

17.9.1.1. The undersigned Contractor approves the foregoing as to the changes, if any, and the Contract Price specified for each item and as to the extension of time allowed, if any, for completion of the entire Work as stated herein, and agrees to furnish all labor, materials, and service, and perform all work necessary to complete any additional work specified for the consideration stated herein. Submission of sums which have no basis in fact or which Contractor knows are false are at the sole risk of Contractor and may be a violation of the False Claims Act set forth under Government Code section 12650 et seq. It is understood that the changes herein to the Contract shall only be effective when approved by the governing board of the District.

17.9.1.2. It is expressly understood that the value of the extra Work or changes expressly includes any and all of the Contractor's costs and expenses, direct and indirect, resulting from additional time required on the Project or resulting from delay to the Project. Any costs, expenses, damages, or time extensions not included are deemed waived.

17.10. Determination of Change Order Cost

17.10.1. The amount of the increase or decrease in the Contract Price from a Change Order, if any, shall be determined in one or more of the following ways as applicable to a specific situation and at the District's discretion:

17.10.1.1. District acceptance of a PCO;

17.10.1.2. By unit prices contained in Contractor's original bid;

17.10.1.3. By agreement between District and Contractor.

17.11. Deductive Change Orders

All deductive Change Order(s) must be prepared pursuant to the provisions herein. Where a portion of the Work is deleted from the Contract, the reasonable value of the deducted work less the value of work performed shall be considered the appropriate deduction. The value submitted on the Schedule of Values shall be used to calculate the credit amount unless the bid documentation is being held in escrow as part of the Contract Documents. If Contractor offers a proposed amount for a deductive Change Order(s), Contractor shall include a minimum of five percent (5%) total profit and overhead to be deducted with the amount of the work of the Change Order(s). If Subcontractor work is involved, Subcontractors shall also include a minimum of five percent (5%) profit and overhead to be deducted with the amount of its deducted work. Any deviation from this provision shall not be allowed.

17.12. Addition or Deletion of Alternate Bid Item(s)

If the Bid Form and Proposal includes proposal(s) for Alternate Bid Item(s), during Contractor's performance of the Work, the District may elect to add or delete any such Alternate Bid Item(s) if not included in the Contract at the time of award. If the District elects to add or delete Alternate Bid Item(s) after Contract award, the cost or credit for such Alternate Bid Item(s) shall be as set forth in the Bid Form and Proposal unless the parties agree to a different price and the Contract Time shall be adjusted by the number of days allocated in the Contract Documents. If days are not allocated in the Contract Documents, the Contract Time shall be equitably adjusted.

17.13. Discounts, Rebates, and Refunds

For purposes of determining the cost, if any, of any change, addition, or omission to the Work hereunder, all trade discounts, rebates, refunds, and all returns from the sale of surplus materials and equipment shall accrue and be credited to the Contractor, and the Contractor shall make provisions so that such discounts, rebates, refunds, and returns may be secured, and the amount thereof shall be allowed as a reduction of the Contractor's cost in determining the actual cost of construction for purposes of any change, addition, or omission in the Work as provided herein.

17.14. Accounting Records

With respect to portions of the Work performed by Change Orders and Construction Change Directives, the Contractor shall keep and maintain cost-accounting records satisfactory to the District, which shall be available to the District on the same terms as any other books and records the Contractor is required to maintain under the Contract Documents. Such records shall include without limitation hourly records for Labor and Equipment and itemized records of materials and Equipment used that day in connection with the performance of any Work. All records maintained hereunder shall be subject to inspection, review and/or reproduction by the District, the Architect or the Project Inspector upon request. In the event that the Contractor fails or refuses, for any reason, to maintain or make available for inspection, review and/or reproduction such records, the District's reasonable good faith determination of the extent of adjustment to the Contract Price shall be final, conclusive, dispositive and binding upon Contractor.

17.15. Notice Required

If the Contractor desires to make a claim for an increase in the Contract Price, or any extension in the Contract Time for completion, it shall notify the District pursuant to the provisions herein, including the Article on Claims and Disputes. No claim shall be considered unless made in accordance with this subparagraph. Contractor shall proceed to execute the Work even though the adjustment may not have been agreed upon. Any change in the Contract Price or extension of the Contract Time resulting from such claim shall be authorized by a Change Order.

17.16. Applicability to Subcontractors

Any requirements under this Article shall be equally applicable to Change Orders or Construction Change Directives issued to Subcontractors by the Contractor to the extent as required by the Contract Documents.

17.17. Alteration to Change Order Language

Contractor shall not alter Change Orders or reserve time in Change Orders. Contractor shall execute finalized Change Orders and proceed under the provisions herein with proper notice.

17.18. Failure of Contractor to Execute Change Order

Contractor shall be in default of the Contract if Contractor fails to execute a Change Order when the Contractor agrees with the addition and/or deletion of the Work in that Change Order.

18. REQUEST FOR INFORMATION

18.1. Any Request for Information shall reference all applicable Contract Document(s), including Specification section(s), detail(s), page number(s), drawing number(s), and sheet number(s), etc. The Contractor shall make suggestions and interpretations of the issue raised by each Request for Information. A Request for Information cannot modify the Contract Price, Contract Time, or the Contract Documents. Upon request by the District, Contractor shall provide an electronic copy of the Request for Information in addition to the hard copy.

18.2. The Contractor shall be responsible for any costs incurred for professional services that District may deduct from any amounts owing to the Contractor, if a Request for Information requests an interpretation or decision of a matter where the information sought is equally available to the party making the request. District, at its sole discretion, shall deduct from and/or invoice Contractor for all the professional services arising herein.

19. PAYMENTS**19.1. Contract Price**

The Contract Price is stated in the Agreement and, including authorized adjustments, is the total amount payable by the District to the Contractor for performance of the Work under the Contract Documents.

19.2. Applications for Progress Payments**19.2.1. Procedure for Applications for Progress Payments****19.2.1.1. Application for Progress Payment**

19.2.1.1.1. Not before the fifth (5th) day of each calendar month during the progress of the Work, Contractor shall submit to the District and the Architect an itemized Application for Payment for operations completed in accordance with the Schedule of Values. Such application shall be notarized, if required, and supported by the following or each portion thereof unless waived by the District in writing:

19.2.1.1.1.1. The amount paid to the date of the Application to the Contractor, to all its Subcontractors, and all others furnishing labor, material, or equipment for its Contract;

19.2.1.1.1.2. The amount being requested under the Application for Payment by the Contractor on its own behalf and separately stating the amount requested on behalf of each of the Subcontractors and all others furnishing labor, material, and equipment under the Contract;

19.2.1.1.1.3. The balance that will be due to each of such entities after said payment is made;

19.2.1.1.1.4. A certification that the As-Built Drawings and annotated Specifications are current;

19.2.1.1.1.5. Itemized breakdown of work done for the purpose of requesting partial payment;

19.2.1.1.1.6. An updated and acceptable construction schedule in conformance with the provisions herein;

19.2.1.1.1.7. The additions to and subtractions from the Contract Price and Contract Time;

19.2.1.1.1.8. A total of the retentions held;

19.2.1.1.1.9. Material invoices, evidence of equipment purchases, rentals, and other support and details of cost as the District may require from time to time;

19.2.1.1.1.10. The percentage of completion of the Contractor's Work by line item;

19.2.1.1.1.11. Schedule of Values updated from the preceding Application for Payment;

19.2.1.1.1.12. A duly completed and executed conditional waiver and release upon progress payment compliant with Civil Code section 8132 from the Contractor and each subcontractor of any tier and supplier to be paid from the current progress payment;

19.2.1.1.1.13. A duly completed and executed unconditional waiver and release upon progress payment compliant with Civil Code section 8134 from the Contractor and each subcontractor of any tier and supplier that was paid from the previous progress payment(s); and

19.2.1.1.1.14. A certification by the Contractor of the following:

The Contractor warrants title to all Work performed as of the date of this payment application has been completed in accordance with the Contract Documents for the Project. The Contractor further warrants that all amounts have been paid for work which previous Certificates for Payment were issued and payments received and all Work performed as of the date of this payment application is free and clear of liens, claims, security interests, or encumbrances in favor of the Contractor, Subcontractors, material and equipment suppliers, workers, or other persons or entities making a claim by reason of having provided labor, materials, and equipment relating to the Work, except those of which the District has been informed.

19.2.1.1.1.15. The Contractor shall be subject to the False Claims Act set forth in Government Code section 12650 et seq. for information provided with any Application for Progress Payment.

19.2.1.1.1.16. All remaining certified payroll records ("CPR(s)") for each journeyman, apprentice, worker, or other employee employed by the Contractor and/or each Subcontractor in connection with the Work for the period of the Application for Payment. As indicated herein, the District shall not make any payment to Contractor until:

19.2.1.1.1.16.1 Contractor and/or its Subcontractor(s) provide electronic CPRs weekly for all weeks any journeyman, apprentice, worker or other employee was employed in connection with the Work directly to the DIR, or within ten (10) days of any request by the District or the DIR, and

19.2.1.1.1.16.2 Any delay in Contractor and/or its Subcontractor(s) providing CPRs in a timely manner may directly delay the Contractor's payment.

19.2.2. Prerequisites for Progress Payments

19.2.2.1. First Payment Request: The following items, if applicable, must be completed before the District will accept and/or process the Contractor's first payment request:

- 19.2.2.1.1.** Installation of the Project sign;
- 19.2.2.1.2.** Installation of field office;
- 19.2.2.1.3.** Installation of temporary facilities and fencing;
- 19.2.2.1.4.** Schedule of Values;
- 19.2.2.1.5.** Contractor's Construction Schedule;
- 19.2.2.1.6.** Schedule of unit prices, if applicable;
- 19.2.2.1.7.** Submittal Schedule;
- 19.2.2.1.8.** Receipt by Architect of all submittals due as of the date of the payment application;
- 19.2.2.1.9.** Copies of necessary permits;
- 19.2.2.1.10.** Copies of authorizations and licenses from governing authorities;
- 19.2.2.1.11.** Initial progress report;
- 19.2.2.1.12.** Surveyor qualifications;
- 19.2.2.1.13.** Written acceptance of District's survey of rough grading, if applicable;
- 19.2.2.1.14.** List of all Subcontractors, with names, license numbers, telephone numbers, and Scope of Work;
- 19.2.2.1.15.** All bonds and insurance endorsements; and
- 19.2.2.1.16.** Resumes of Contractor's project manager, and if applicable, job site secretary, record documents recorder, and job site superintendent.

19.2.2.2. Second Payment Request The District will not process the second payment request until and unless all submittals and Shop Drawings have been accepted for review by the Architect.

19.2.2.3. No Waiver of Criteria Any payments made to Contractor where criteria set forth herein have not been met shall not constitute a waiver of said

criteria by District. Instead, such payment shall be construed as a good faith effort by District to resolve differences so Contractor may pay its Subcontractors and suppliers. Contractor agrees that failure to submit such items may constitute a breach of contract by Contractor and may subject Contractor to termination.

19.3. Progress Payments

19.3.1. District's Approval of Application for Payment

19.3.1.1. Upon receipt of a Application for Payment, The District shall act in accordance with both of the following:

19.3.1.1.1. Each Application for Payment shall be reviewed by the District as soon as practicable after receipt for the purpose of determining that the Application for Payment is a proper Application for Payment.

19.3.1.1.2. Any Application for Payment determined not to be a proper Application for Payment suitable for payment shall be returned to the Contractor as soon as practicable, but not later than seven (7) days, after receipt. An Application for Payment returned pursuant to this paragraph shall be accompanied by a document setting forth in writing the reasons why the Application for Payment is not proper. The number of days available to the District to make a payment without incurring interest pursuant to this section shall be reduced by the number of days by which the District exceeds this seven-day return requirement.

19.3.1.1.3. An Application for Payment shall be considered properly executed if funds are available for payment of the Application for Payment, and payment is not delayed due to an audit inquiry by the financial officer of the District.

19.3.1.2. The District's review of the Contractor's Application for Payment will be based on the District's and the Architect's observations at the Site and the data comprising the Application for Payment that the Work has progressed to the point indicated and that, to the best of the District's and the Architect's knowledge, information, and belief, the quality of the Work is in accordance with the Contract Documents. The foregoing representations are subject to:

19.3.1.2.1. Observation of the Work for general conformance with the Contract Documents,

19.3.1.2.2. Results of subsequent tests and inspections,

19.3.1.2.3. Minor deviations from the Contract Documents correctable prior to completion, and

19.3.1.2.4. Specific qualifications expressed by the Architect.

19.3.1.3. District's approval of the certified Application for Payment shall be based on Contractor complying with all requirements for a fully complete and valid certified Application for Payment.

19.3.2. Payments to Contractor

19.3.2.1. Within thirty (30) days after approval of the Application for Payment, Contractor shall be paid a sum equal to ninety-five percent (95%) of the value of the Work performed (as verified by Architect and Inspector and certified by Contractor) up to the last day of the previous month, less the aggregate of previous payments and amount to be withheld. The value of the Work completed shall be Contractor's best estimate. No inaccuracy or error in said estimate shall operate to release the Contractor, or any Surety upon any bond, from damages arising from such Work, or from the District's right to enforce each and every provision of this Contract, and the District shall have the right subsequently to correct any error made in any estimate for payment.

19.3.2.2. The Contractor shall not be entitled to have any payment requests processed, or be entitled to have any payment made for Work performed, so long as any lawful or proper direction given by the District concerning the Work, or any portion thereof, remains incomplete.

19.3.2.3. If the District fails to make any progress payment within thirty (30) days after receipt of an undisputed and properly submitted Application for Payment from the Contractor, the District shall pay interest to the Contractor equivalent to the legal rate set forth in subdivision (a) of Section 685.010 of the Code of Civil Procedure.

19.3.3. No Waiver

No payment by District hereunder shall be interpreted so as to imply that District has inspected, approved, or accepted any part of the Work. Notwithstanding any payment, the District may enforce each and every provision of this Contract. The District may correct or require correction of any error subsequent to any payment.

19.4. Decisions to Withhold Payment

19.4.1. Reasons to Withhold Payment

The District may withhold payment in whole, or in part, to the extent reasonably necessary to protect the District if, in the District's opinion, the representations to the District required herein cannot be made. The District may withhold payment, in whole, or in part, to such extent as may be necessary to protect the District from loss because of, but not limited to:

19.4.1.1. Defective Work not remedied within **FORTY-EIGHT (48)** hours of written notice to Contractor.

19.4.1.2. Stop Payment Notices or other liens served upon the District as a result of the Contract. Contractor agrees that the District may withhold up to 125% of the amount claimed in the Stop Payment Notice to answer the claim and to provide for the District's reasonable cost of any litigation pursuant to the stop payment notice.

19.4.1.3. Liquidated damages assessed against the Contractor.

19.4.1.4. The cost of completion of the Contract if there exists reasonable doubt that the Work can be completed for the unpaid balance of the Contract Price or by the completion date.

19.4.1.5. Damage to the District or other contractor(s).

19.4.1.6. Unsatisfactory prosecution of the Work by the Contractor.

19.4.1.7. Failure to store and properly secure materials.

19.4.1.8. Failure of the Contractor to submit, on a timely basis, proper, sufficient, and acceptable documentation required by the Contract Documents, including, without limitation, a Construction Schedule, Schedule of Submittals, Schedule of Values, Monthly Progress Schedules, Shop Drawings, Product Data and samples, Proposed product lists, executed Change Orders, and/or verified reports.

19.4.1.9. Failure of the Contractor to maintain As-Built Drawings.

19.4.1.10. Erroneous estimates by the Contractor of the value of the Work performed, or other false statements in an Application for Payment.

19.4.1.11. Unauthorized deviations from the Contract Documents.

19.4.1.12. Failure of the Contractor to prosecute the Work in a timely manner in compliance with the Construction Schedule, established progress schedules, and/or completion dates.

19.4.1.13. Failure to provide acceptable electronic certified payroll records, as required by the Labor Code, by these Contract Documents, or by written request; for each journeyman, apprentice, worker, or other employee employed by the Contractor and/or by each Subcontractor in connection with the Work for the period of the Application for Payment or if payroll records are delinquent or inadequate.

19.4.1.14. Failure to properly pay prevailing wages as required in Labor Code section 1720 et seq., failure to comply with any other Labor Code requirements, and/or failure to comply with labor compliance monitoring and enforcement by the DIR.

19.4.1.15. Failure to properly pay prevailing wages as required in Labor Code section 1720 et seq., failure to comply with any other Labor Code requirements,

and/or failure to comply with State labor compliance monitoring and enforcement, if applicable.

19.4.1.16. Failure to comply with any applicable federal statutes and regulations regarding minimum wages, withholding, payrolls and basic records, apprentice and trainee employment requirements, equal employment opportunity requirements, Copeland Act requirements, Davis-Bacon Act and related requirements, Contract Work Hours and Safety Standards Act requirements, if applicable.

19.4.1.17. Failure to properly maintain or clean up the Site.

19.4.1.18. Failure to timely indemnify, defend, or hold harmless the District.

19.4.1.19. Any payments due to the District, including but not limited to payments for failed tests, utilities changes, or permits.

19.4.1.20. Failure to pay Subcontractor(s) or supplier(s) as required by law and by the Contract Documents.

19.4.1.21. Failure to pay any royalty, license or similar fees.

19.4.1.22. Contractor is otherwise in breach, default, or in substantial violation of any provision of this Contract.

19.4.1.23. Failure to perform any implementation and/or monitoring required by any SWPPP for the Project and/or the imposition of any penalties or fines therefore whether imposed on the District or Contractor.

19.4.2. Reallocation of Withheld Amounts

19.4.2.1. District may, in its discretion, apply any withheld amount to pay outstanding claims or obligations as defined herein. In so doing, District shall make such payments on behalf of Contractor. If any payment is so made by District, then that amount shall be considered a payment made under Contract by District to Contractor and District shall not be liable to Contractor for any payment made in good faith. These payments may be made without prior judicial determination of claim or obligation. District will render Contractor an accounting of funds disbursed on behalf of Contractor.

19.4.2.2. If Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents or fails to perform any provision thereof, District may, after **FORTY-EIGHT (48)** hours written notice to the Contractor and, without prejudice to any other remedy, make good such deficiencies. The District shall adjust the total Contract Price by reducing the amount thereof by the cost of making good such deficiencies. If District deems it inexpedient to correct Work that is damaged, defective, or not done in accordance with Contract provisions, an equitable reduction in the Contract Price (of at least one hundred fifty percent (150%) of the estimated reasonable value of the nonconforming Work) shall be made therefor.

19.4.3. Payment After Cure

When Contractor removes the grounds for declining approval, payment shall be made for amounts withheld because of them. No interest shall be paid on any retainage or amounts withheld due to the failure of the Contractor to perform in accordance with the terms and conditions of the Contract Documents.

19.5. Subcontractor Payments**19.5.1. Payments to Subcontractors**

No later than seven (7) days after receipt, or pursuant to Business and Professions Code section 7108.5 and Public Contract Code section 7107, the Contractor shall pay to each Subcontractor, out of the amount paid to the Contractor on account of such Subcontractor's portion of the Work, the amount to which said Subcontractor is entitled. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to its Sub-subcontractors in a similar manner.

19.5.2. No Obligation of District for Subcontractor Payment

The District shall have no obligation to pay, or to see to the payment of, money to a Subcontractor except as may otherwise be required by law.

19.5.3. Joint Checks

District shall have the right in its sole discretion, if necessary for the protection of the District, to issue joint checks made payable to the Contractor and Subcontractors and/or material or equipment suppliers. The joint check payees shall be responsible for the allocation and disbursement of funds included as part of any such joint payment. In no event shall any joint check payment be construed to create any contract between the District and a Subcontractor of any tier, or a material or equipment supplier, any obligation from the District to such Subcontractor or a material or equipment supplier, or rights in such Subcontractor or a material or equipment supplier against the District.

20. COMPLETION OF THE WORK**20.1. Completion**

20.1.1. District will accept completion of Contract and have the Notice of Completion recorded when the entire Work shall have been completed to the satisfaction of District.

20.1.2. The Work may only be accepted as complete by action of the governing board of the District.

20.1.3. District, at its sole option, may accept completion of Contract and have the Notice of Completion recorded when the entire Work shall have been completed

to the satisfaction of District, except for minor corrective items, as distinguished from incomplete items. If Contractor fails to complete all minor corrective items within fifteen (15) days after the date of the District's acceptance of completion, District shall withhold from the final payment one hundred fifty percent (150%) of an estimate of the amount sufficient to complete the corrective items, as determined by District, until the item(s) are completed.

20.1.4. At the end of the 15-day period, if there are any items remaining to be corrected, District may elect to proceed as provided herein related to adjustments to Contract Price, and/or District's right to perform the Work of the Contractor.

20.2. Close-Out/Certification Procedures

20.2.1. Punch List

The Contractor shall notify the Architect when Contractor considers the Work complete. Upon notification, Architect will prepare a list of minor items to be completed or corrected ("Punch List"). The Contractor and/or its Subcontractors shall proceed promptly to complete and correct items on the Punch List. Failure to include an item on Punch List does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

20.2.2. Close-Out/Certification Requirements

20.2.2.1. Utility Connections

Buildings shall be connected to water, gas, sewer, and electric services, complete and ready for use. Service connections shall be made and existing services reconnected.

20.2.2.2. Record Drawings

20.2.2.2.1. Contractor shall provide exact Record Drawings of the Work upon completion of the Project as indicated in the Specifications.

20.2.2.2.2. Contractor is liable and responsible for any and all inaccuracies in the Record Drawings, even if inaccuracies become evident at a future date.

20.2.2.2.3. Upon completion of the Work and as a condition precedent to approval of final payment, Contractor shall obtain the Inspector's approval of the corrected prints and employ a competent draftsman to transfer the Record Drawings information to the most current version of Autocad that is, at that time, currently utilized for plan check submission by either the District, the Architect, OPSC, and/or DSA, and print a complete set of transparent sepias. When completed, Contractor shall deliver corrected sepias and diskette/CD/other data storage device acceptable to District with Autocad file to the District.

20.2.2.3. Maintenance Manuals: Contractor shall prepare all operation and maintenance manuals and date as indicated in the Specifications.

20.2.2.4. Source Programming: Contractor shall provide all source programming for all items in the Project.

20.2.2.5. Verified Reports: Contractor shall completely and accurately fill out and file forms DSA 6-C or DSA 152 (or current form), as appropriate. Refer to section 4-336 and section 4-343 of Part 1, Title 24 of the California Code of Regulations.

20.3. Final Inspection

20.3.1. Contractor shall comply with Punch List procedures as provided herein, and maintain the presence of a Project Superintendent and Project Manager until the Punch List is complete to ensure proper and timely completion of the Punch List. Under no circumstances shall Contractor demobilize its forces prior to completion of the Punch List. Upon receipt of Contractor's written notice that all of the Punch List items have been fully completed and the Work is ready for final inspection and acceptance, Architect and Project Inspector will inspect the Work and shall submit to Contractor and District a final inspection report noting the Work, if any, required in order to complete in accordance with the Contract Documents. Absent unusual circumstances, this report shall consist of the Punch List items not yet satisfactorily completed.

20.3.2. Upon Contractor's completion of all items on the Punch List and any other uncompleted portions of the Work, the Contractor shall notify the District and Architect, who shall again inspect such Work. If the Architect finds the Work complete and acceptable under the Contract Documents, the Architect will notify Contractor, who shall then jointly submit to the Architect and the District its final Application for Payment.

20.3.3. Final Inspection Requirements

20.3.3.1. Before calling for final inspection, Contractor shall determine that the following have been performed:

- 20.3.3.1.1.** The Work has been completed.
- 20.3.3.1.2.** All life safety items are completed and in working order.
- 20.3.3.1.3.** Mechanical and electrical Work are complete and tested, fixtures are in place, connected, and ready for tryout.
- 20.3.3.1.4.** Electrical circuits scheduled in panels and disconnect switches labeled.
- 20.3.3.1.5.** Painting and special finishes complete.
- 20.3.3.1.6.** Doors complete with hardware, cleaned of protective film, relieved of sticking or binding, and in working order.
- 20.3.3.1.7.** Tops and bottoms of doors sealed.

- 20.3.3.1.8.** Floors waxed and polished as specified.
- 20.3.3.1.9.** Broken glass replaced and glass cleaned.
- 20.3.3.1.10.** Grounds cleared of Contractor's equipment, raked clean of debris, and trash removed from Site.
- 20.3.3.1.11.** Work cleaned, free of stains, scratches, and other foreign matter, of damaged and broken material replaced.
- 20.3.3.1.12.** Finished and decorative work shall have marks, dirt, and superfluous labels removed.
- 20.3.3.1.13.** Final cleanup, as provided herein.

20.4. Costs of Multiple Inspections

More than two (2) requests of the District to make a final inspection shall be considered an additional service of District, Architect, Construction Manager, and/or Project Inspector, and all subsequent costs will be invoiced to Contractor and if funds are available, withheld from remaining payments.

20.5. Partial Occupancy or Use Prior to Completion

20.5.1. District's Rights to Occupancy

The District may occupy or use any completed or partially completed portion of the Work at any stage, and such occupancy shall not constitute the District's Final Acceptance of any part of the Work. Neither the District's Final Acceptance, the making of Final Payment, any provision in Contract Documents, nor the use or occupancy of the Work, in whole or in part, by District shall constitute acceptance of Work not in accordance with the Contract Documents nor relieve the Contractor or the Contractor's Performance Bond Surety from liability with respect to any warranties or responsibility for faulty or defective Work or materials, equipment and workmanship incorporated therein. In the event that the District occupies or uses any completed or partially completed portion of the Work, the Contractor shall remain responsible for payments, security, maintenance, heat, utilities, damage to the Work, insurance, the period for correction of the Work, and the commencement of warranties required by the Contract Documents unless the Contractor requests in writing, and the District agrees, to otherwise divide those responsibilities. Any dispute as to responsibilities shall be resolved pursuant to the Claims and Disputes provisions herein, with the added provision that during the dispute process, the District shall have the right to occupy or use any portion of the Work that it needs or desires to use.

20.5.2. Inspection Prior to Occupancy or Use

Immediately prior to partial occupancy or use, the District, the Contractor, and the Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

20.5.3. No Waiver

Unless otherwise agreed upon, partial or entire occupancy or use of a portion or portions of the Work shall not constitute beneficial occupancy or acceptance of the Work not complying with the requirements of the Contract Documents.

21. FINAL PAYMENT AND RETENTION

21.1. Final Payment

Upon receipt and approval of a valid and final Application for Payment, the Architect will issue a final Certificate of Payment. The District shall thereupon jointly inspect the Work and either accept the Work as complete or notify the Architect and the Contractor in writing of reasons why the Work is not complete. Upon acceptance of the Work of the Contractor as fully complete by the Governing Board of the District (that, absent unusual circumstances, will occur when the Punch List items have been satisfactorily completed), the District shall record a Notice of Completion with the County Recorder, and the Contractor shall, upon receipt of final payment from the District, pay the amount due Subcontractors.

21.2. Prerequisites for Final Payment The following conditions must be fulfilled prior to Final Payment:

21.2.1. A full release of all Stop Payment Notices served in connection with the Work shall be submitted by Contractor.

21.2.2. A duly completed and executed conditional waiver and release upon final payment compliant with Civil Code section 8136, from the Contractor and each subcontractor of any tier and supplier to be paid from the final payment.

21.2.3. A duly completed and executed unconditional waiver and release upon progress payment compliant with Civil Code section 8134, from the Contractor and each subcontractor of any tier and supplier that was paid from the previous progress payments.

21.2.4. A duly completed and executed Document 00 65 19.26, "AGREEMENT AND RELEASE OF ANY AND ALL CLAIMS" from the Contractor.

21.2.5. The Contractor shall have made all corrections to the Work that are required to remedy any defects therein, to obtain compliance with the Contract Documents or any requirements of applicable codes and ordinances, or to fulfill any of the orders or directions of District required under the Contract Documents.

21.2.6. Each Subcontractor shall have delivered to the Contractor all written guarantees, warranties, applications, and bonds required by the Contract Documents for its portion of the Work.

21.2.7. Contractor must have completed all requirements set forth under "Close-Out/Certification Procedures," including, without limitation, submission of an approved set of complete Record Drawings.

21.2.8. Architect shall have issued its written approval that final payment can be made.

21.2.9. The Contractor shall have delivered to the District all manuals and materials required by the Contract Documents.

21.2.10. The Contractor shall have completed final clean-up as provided herein.

21.3. Retention

21.3.1. The retention, less any amounts disputed by the District or that the District has the right to withhold pursuant to provisions herein, shall be paid:

21.3.1.1. After approval of the District by the Architect's Certificate of Payment,

21.3.1.2. After the satisfaction of the conditions set forth herein, and

21.3.1.3. After forty-five (45) days after the recording of the Notice of Completion by District.

21.3.2. No interest shall be paid on any retention, or on any amounts withheld due to a failure of the Contractor to perform, in accordance with the terms and conditions of the Contract Documents, except as provided to the contrary in any Escrow Agreement between the District and the Contractor pursuant to Public Contract Code section 22300.

21.4. Substitution of Securities The District will permit the substitution of securities in accordance with the provisions of Public Contract Code section 22300.

22. UNCOVERING OF WORK

If a portion of the Work is covered without Inspector or Architect approval or not in compliance with the Contract Documents, it must, if required in writing by the District, the Project Inspector, or the Architect, be uncovered for the Project Inspector's or the Architect's observation and be replaced at the Contractor's expense without change in the Contract Price or Contract Time.

23. NONCONFORMING WORK AND CORRECTION OF WORK

23.1. Nonconforming Work

23.1.1. Contractor shall promptly remove from Premises all Work identified by District as failing to conform to the Contract Documents whether incorporated or not. Contractor shall promptly replace and re-execute its own Work to comply with the

Contract Documents without additional expense to the District and shall bear the expense of making good all work of other contractors destroyed or damaged by any removal or replacement pursuant hereto and/or any delays to the District or other Contractors caused thereby.

23.1.2. If Contractor does not remove Work that District has identified as failing to conform to the Contract Documents within a reasonable time, not to exceed **FORTY-EIGHT (48)** hours, District may remove it and may store any material at Contractor's expense. If Contractor does not pay expense(s) of that removal within ten (10) days' time thereafter, District may, upon ten (10) days' written notice, sell any material at auction or at private sale and shall deduct all costs and expenses incurred by the District and/or District may withhold those amounts from payment(s) to Contractor.

23.2. Correction of Work

23.2.1. Correction of Rejected Work

Pursuant to the notice provisions herein, the Contractor shall immediately correct the Work rejected by the District, the Architect, or the Project Inspector as failing to conform to the requirements of the Contract Documents, whether observed before or after Completion and whether or not fabricated, installed, or completed. The Contractor shall bear costs of correcting the rejected Work, including delay costs, additional testing, inspections, and compensation for the Inspector's or the Architect's services and expenses made necessary thereby.

23.2.2. One-Year Warranty Corrections

If, within one (1) year after the date of Completion of the Work or a designated portion thereof, or after the date for commencement of warranties established hereunder, or by the terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of written notice from the District to do so. This period of one (1) year shall be extended with respect to portions of the Work first performed after Completion by the period of time between Completion and the actual performance of the Work. This obligation hereunder shall survive acceptance of the Work under the Contract and termination of the Contract. The District shall give such notice promptly after discovery of the condition.

23.3. District's Right to Perform Work

23.3.1. If the Contractor should neglect to prosecute the Work properly or fail to perform any provisions of this contract, the District, after **FORTY-EIGHT (48)** hours written notice to the Contractor, may, without prejudice to any other remedy it may have, make good such deficiencies and may deduct the cost thereof from the payment then or thereafter due the Contractor.

23.3.2. If it is found at any time, before or after completion of the Work, that Contractor has varied from the Drawings and/or Specifications, including, but not

limited to, variation in material, quality, form, or finish, or in the amount or value of the materials and labor used, District may require at its option:

23.3.2.1. That all such improper Work be removed, remade or replaced, and all work disturbed by these changes be made good by Contractor at no additional cost to the District;

23.3.2.2. That the District deduct from any amount due Contractor the sum of money equivalent to the difference in value between the work performed and that called for by the Drawings and Specifications; or

23.3.2.3. That the District exercise any other remedy it may have at law or under the Contract Documents, including but not limited to the District hiring its own forces or another contractor to replace the Contractor's nonconforming Work, in which case the District shall either issue a deductive Change Order, a Construction Change Directive, or invoice the Contractor for the cost of that work. Contractor shall pay any invoices within thirty (30) days of receipt of same or District may withhold those amounts from payment(s) to Contractor.

24. TERMINATION AND SUSPENSION

24.1. District's Right to Terminate Contractor for Cause

24.1.1. Grounds for Termination The District, in its sole discretion, may terminate the Contract and/or terminate the Contractor's right to perform the work of the Contract based upon the following:

24.1.1.1. Contractor refuses or fails to execute the Work or any separable part thereof with sufficient diligence as will ensure its completion within the time specified or any extension thereof, or

24.1.1.2. Contractor fails to complete said Work within the time specified or any extension thereof, or

24.1.1.3. Contractor persistently fails or refused to perform Work or provide material of sufficient quality as to be in compliance with Contract Documents; or

24.1.1.4. Contractor files a petition for relief as a debtor, or a petition is filed against the Contractor without its consent, and the petition not dismissed within sixty (60) days; or

24.1.1.5. Contractor makes a general assignment for the benefit of its creditors, or a receiver is appointed on account of its insolvency; or

24.1.1.6. Contractor persistently or repeatedly refuses fails, except in cases for which extension of time is provided, to supply enough properly skilled workers or proper materials to complete the Work in the time specified; or

24.1.1.7. Contractor fails to make prompt payment to Subcontractors, or for material, or for labor; or

24.1.1.8. Contractor persistently disregards laws, or ordinances, or instructions of District; or

24.1.1.9. Contractor fails to supply labor, including that of Subcontractors, that can work in harmony with all other elements of labor employed or to be employed on the Work; or

24.1.1.10. Contractor or its Subcontractor(s) is/are otherwise in breach, default, or in substantial violation of any provision of this Contract, including but not limited to a lapse in licensing or registration.

24.1.2. Notification of Termination

24.1.2.1. Upon the occurrence at District's sole determination of any of the above conditions, District may, without prejudice to any other right or remedy, serve written notice upon Contractor and its Surety of District's termination of this Contract and/or the Contractor's right to perform the work of the Contract. This notice will contain the reasons for termination. Unless, within three (3) days after the service of the notice, any and all condition(s) shall cease, and any and all violation(s) shall cease, or arrangement satisfactory to District for the correction of the condition(s) and/or violation(s) be made, this Contract shall cease and terminate. Upon Determination, Contractor shall not be entitled to receive any further payment until the entire Work is finished.

24.1.2.2. Upon Termination, District may immediately serve written notice of tender upon Surety whereby Surety shall have the right to take over and perform this Contract only if Surety:

24.1.2.2.1. Within three (3) days after service upon it of the notice of tender, gives District written notice of Surety's intention to take over and perform this Contract; and

24.1.2.2.2. Commences performance of this Contract within (three (3) days from date of serving of its notice to District.

24.1.2.3. Surety shall not utilize Contractor in completing the Project if the District notifies Surety of the District's objection to Contractor's further participation in the completion of the Project. Surety expressly agrees that any contractor which Surety proposes to fulfill Surety's obligations is subject to District's approval. District's approval shall not be unreasonably withheld, conditioned or delayed.

24.1.2.4. If Surety fails to notify District or begin performance as indicated herein, District may take over the Work and execute the Work to completion by any method it may deem advisable at the expense of Contractor and/or its Surety. Contractor and/or its Surety shall be liable to District for any excess cost or other damages the District incurs thereby. Time is of the essence in this Contract. If the District takes over the Work as herein provided, District may, without liability for so doing, take possession of and utilize in completing the

Work such materials, appliances, plan, and other property belonging to Contractor as may be on the Site of the Work, in bonded storage, or previously paid for.

24.1.3. Effect of Termination

24.1.3.1. Contractor shall, only if ordered to do so by the District, immediately remove from the Site all or any materials and personal property belonging to Contractor that have not been incorporated in the construction of the Work, or which are not in place in the Work. The District retains the right, but not the obligation, to keep and use any materials and personal property belonging to Contractor that have not been incorporated in the construction of the Work, or which are not in place in the Work. The Contractor and its Surety shall be liable upon the performance bond for all damages caused the District by reason of the Contractor's failure to complete the Contract.

24.1.3.2. In the event that the District shall perform any portion of, or the whole of the Work, pursuant to the provisions of the General Conditions, the District shall not be liable nor account to the Contractor in any way for the time within which, or the manner in which, the Work is performed by the District or for any changes the District may make in the Work or for the money expended by the District in satisfying claims and/or suits and/or other obligations in connection with the Work.

24.1.3.3. In the event that the Contract is terminated for any reason, no allowances or compensation will be granted for the loss of any anticipated profit by the Contractor or any impact or impairment of Contractor's bonding capacity.

24.1.3.4. If the expense to the District to finish the Work exceeds the unpaid Contract Price, Contractor and Surety shall pay difference to District within twenty-one (21) days of District's request.

24.1.3.5. The District shall have the right (but shall have no obligation) to assume and/or assign to a general contractor or construction manager or other third party who is qualified and has sufficient resources to complete the Work, the rights of the Contractor under its subcontracts with any or all Subcontractors. In the event of an assumption or assignment by the District, no Subcontractor shall have any claim against the District or third party for Work performed by Subcontractor or other matters arising prior to termination of the Contract. The District or any third party, as the case may be, shall be liable only for obligations to the Subcontractor arising after assumption or assignment. Should the District so elect, the Contractor shall execute and deliver all documents and take all steps, including the legal assignment of its contractual rights, as the District may require, for the purpose of fully vesting in the District the rights and benefits of it Subcontractor under Subcontracts or other obligations or commitments. All payments due the Contractor hereunder shall be subject to a right of offset by the District for expenses and damages suffered by the District as a result of any default, acts, or omissions of the Contractor. Contractor must include this assignment provision in all of its contracts with its Subcontractors.

24.1.3.6. The foregoing provisions are in addition to and not in limitation of any other rights or remedies available to District.

24.1.4. Emergency Termination of Public Contracts Act of 1949

24.1.4.1. This Contract is subject to termination as provided by sections 4410 and 4411 of the Government Code of the State of California, being a portion of the Emergency Termination of Public Contracts Act of 1949.

24.1.4.1.1. Section 4410 of the Government Code states:

In the event a national emergency occurs, and public work, being performed by contract, is stopped, directly or indirectly, because of the freezing or diversion of materials, equipment or labor, as the result of an order or a proclamation of the President of the United States, or of an order of any federal authority, and the circumstances or conditions are such that it is impracticable within a reasonable time to proceed with a substantial portion of the work, then the public agency and the contractor may, by written agreement, terminate said contract.

24.1.4.1.2. Section 4411 of the Government Code states:

Such an agreement shall include the terms and conditions of the termination of the contract and provision for the payment of compensation or money, if any, which either party shall pay to the other or any other person, under the facts and circumstances in the case.

24.1.4.2. Compensation to the Contractor shall be determined at the sole discretion of District on the basis of the reasonable value of the Work done, including preparatory work. As an exception to the foregoing and at the District's discretion, in the case of any fully completed separate item or portion of the Work for which there is a separate previously submitted unit price or item on the accepted schedule of values, that price shall control. The District, at its sole discretion, may adopt the Contract Price as the reasonable value of the work done or any portion thereof.

24.2. Termination of Contractor for Convenience

24.2.1. District in its sole discretion may terminate the Contract upon three (3) days written notice to the Contractor. Under a termination for convenience, the District retains the right to all the options available to the District if there is a termination for cause. In case of a termination for convenience, the Contractor shall have no claims against the District except:

24.2.1.1. The actual cost for labor, materials, and services performed that is unpaid and can be documented through timesheets, invoices, receipts, or otherwise, and

24.2.1.2. Five percent (5%) of the total cost of work performed as of the date of termination, or five percent (5%) of the value of the Work yet to be performed,

whichever is less. This five percent (5%) amount shall be full compensation for all Contractor's and Subcontractor(s)' mobilization and/or demobilization costs and any anticipated loss profits resulting from termination of the Contractor for convenience.

24.3. Suspension of Work

24.3.1. District in its sole discretion may suspend, delay or interrupt the Work in whole or in part for such period of time as the District may determine upon three (3) days written notice to the Contractor.

24.3.1.1. An adjustment may be made for changes in the cost of performance of the Work caused by any such suspension, delay or interruption. No adjustment shall be made to the extent:

24.3.1.1.1. That performance is, was or would have been so suspended, delayed or interrupted by another cause for which Contractor is responsible; or

24.3.1.1.2. That an equitable adjustment is made or denied under another provision of the Contract; or

24.3.1.1.3. That the suspension of Work was the direct or indirect result of Contractor's failure to perform any of its obligations hereunder.

24.3.1.2. Any adjustments in cost of performance may have a fixed or percentage fee as provided in the section on Format for Proposed Change Order herein. This amount shall be full compensation for all Contractor's and its Subcontractor(s)' changes in the cost of performance of the Contract caused by any such suspension, delay or interruption.

25. CLAIMS AND DISPUTES

25.1. Performance During Dispute or Claim Process

Contractor shall continue to perform its Work under the Contract and shall not cause a delay of the Work during any dispute, claim, negotiation, mediation, or arbitration proceeding, except by written agreement by the District.

25.2. Definition of Dispute

25.2.1. The term "Dispute" means a separate demand by the Contractor for:

25.2.1.1. A time extension;

25.2.1.2. Payment of money or damages arising from Work done by or on behalf of the Contractor pursuant to the Contract and payment of which is not otherwise expressly provided for or Contractor is not otherwise entitled to; or

25.2.1.3. An amount of payment disputed by the District.

25.3. Dispute Presentation

25.3.1. If Contractor intends to apply for an increase in the Contract Price or Contract Time for any reason including, without limitation, the acts of District or its agents, Contractor shall, within ten (10) days after the event giving rise to the Dispute, give notice of the Dispute in writing and submit to the District a written statement of the damage sustained or time requested. On or before twenty (20) days after Contractor's written Notice of Dispute, Contractor shall file with the District an itemized statement of the details and amounts of its Dispute for any increase in the Contract Price of Contract Time. Otherwise, Contractor shall have waived and relinquished its dispute against the District and Contractor's claims for compensation or an extension of time shall be forfeited and invalidated. Contractor shall not be entitled to consideration for payment or time on account.

25.3.2. The Notice of Dispute shall identify:

25.3.2.1. The issues, events, conditions, circumstances and/or causes giving rise to the dispute;

25.3.2.2. The pertinent dates and/or durations and actual and/or anticipated effects on the Contract Price, Contract Schedule milestones and/or Contract Time adjustments; and

25.3.2.3. The line-item costs for labor, material, and/or equipment, if applicable.

25.3.3. The Notice of Dispute shall include the following certification by the Contractor:

25.3.3.1. The undersigned Contractor certifies under penalty of perjury that the attached dispute is made in good faith; that the supporting data is accurate and complete to the best of my knowledge and belief; that the amount requested accurately reflects the adjustment for which Contractor believes the District is liable; and that I am duly authorized to certify the dispute on behalf of the Contractor.

25.3.3.2. Furthermore, Contractor understands that the value of the attached dispute expressly includes any and all of the Contractor's costs and expenses, direct and indirect, resulting from the Work performed on the Project, additional time required on the Project and/or resulting from delay to the Project. Any costs, expenses, damages, or time extensions not included are deemed waived.

25.3.4. If a Dispute, or any portion thereof, remains unresolved upon satisfaction of all applicable Dispute Resolution requirements, the Contractor shall comply with all claim resolution requirements as provided in Public Contract Code section 20104.

25.3.5. Contractor shall bind its Subcontractors to the provisions of this section and will hold the District harmless against disputes by Subcontractors.

25.4. Dispute Resolution

25.4.1. Contractor shall file with the District the Notice of Dispute, including the documents necessary to substantiate it, on or before the day of submitting the application for final payment.

25.4.2. District shall respond in writing within forty-five (45) days of receipt of the Dispute or may request in writing within thirty (30) days of receipt of the Dispute any additional documentation supporting the Dispute or relating to defenses or claims District may have against the Contractor.

25.4.2.1. If additional information is required, it shall be requested and provided by mutual agreement of the parties.

25.4.2.2. District's written response to the documented Dispute shall be submitted to the Contractor within fifteen (15) days after receipt of the further documentation or within a period of time no greater than that taken by the Contractor to produce the additional information, whichever is greater.

25.4.3. If Contractor disputes the District's written response, Contractor may file a claim pursuant to the Claim Resolution requirements provided herein.

25.5. Definition of Claim

25.5.1. The term "Claim" means a dispute that remains unresolved at the conclusion of the Dispute Resolution requirements as provided herein.

25.6. Claim Presentations

25.6.1. Contractor must timely submit the Notice of Claim and all documents necessary to substantiate any Claim. Otherwise, Contractor shall have waived and relinquished its Claim against the District and Contractor's Claims for compensation or an extension of time shall be forfeited and invalidated, and Contractor shall not be entitled to consideration for payment or time on account of the instant matter. No Claim shall be presented prior to Project completion. Any statute that might otherwise govern the presentation of an unresolved Dispute, including but not limited to Government Code section 900 et seq. and Public Contract Code section 20104 et seq. shall be tolled for all purposes during the course of construction on the Project.

25.6.1.1. All Claims shall include the following certification by the Contractor:

25.6.1.1.1. The undersigned Contractor certifies under penalty of perjury that the attached claim is made in good faith; that the supporting data is accurate and complete to the best of my knowledge and belief; that the amount requested accurately reflects the adjustment for which Contractor believes the District is liable; and that I am duly authorized to certify the claim on behalf of the Contractor.

25.6.1.1.2. Furthermore, Contractor understands that the value of the attached claim expressly includes any and all of the Contractor's costs and

expenses, direct and indirect, resulting from the Work performed on the Project, additional time required on the Project and/or resulting from delay to the Project. Any costs, expenses, damages, or time extensions not included are deemed waived.

25.6.2. The attention of the Contractor is drawn to Government Code section 12650, et seq. regarding penalties for false claims.

25.6.3. If a Claim, or any portion thereof, remains in dispute upon satisfaction of all applicable Dispute and Claim Resolution requirements, the Contractor shall comply with all claims presentation requirements as provided in Chapter 1 (commencing with section 900) and Chapter 2 (commencing with section 910) of Part 3 of Division 3.6 of Title 1 of Government Code as a condition precedent to the Contractor's right to bring a civil action against the District. For purposes of those provisions, the running of the time within which a Dispute or Claim must be presented to the District shall be tolled from the time the Contractor submits its written Dispute or Claim until the time the Dispute or Claim is denied, including any time utilized by any applicable meet and confer process.

25.6.4. The Contractor shall bind all its Subcontractors to the provisions of this section and will hold the District harmless against claims by Subcontractors.

25.7. Claim Resolution

25.7.1. In the event of a disagreement between the parties as to performance of the Work, the interpretation of this Contract, or payment or nonpayment for Work performed or not performed, the parties shall, after the conclusion of the Dispute Resolution requirements, attempt to resolve the Claim by those procedures set forth herein.

25.7.2. Claims of \$375,000 or Less

25.7.2.1. For all Claims of three hundred seventy-five thousand dollars (\$375,000) or less which arise between Contractor and District, the procedure set forth in Public Contract Code section 20104 et seq. shall apply:

25.7.2.1.1. Contractor shall file with the District any written Claim, including the documents necessary to substantiate it, upon the application for final payment.

25.7.2.1.2. For claims of less than fifty thousand dollars (\$50,000), the District shall respond in writing within forty-five (45) days of receipt of the Claim or may request in writing within thirty (30) days of receipt of the Claim any additional documentation supporting the claim or relating to defenses or claims the District may have against the Contractor.

25.7.2.1.2.1. If additional information is required, it shall be requested and provided by mutual agreement of the parties.

25.7.2.1.2.2. District's written response to the documented Claim shall be submitted to the Contractor within fifteen (15) days after receipt of the further documentation or within a period of time no greater than that taken by the Contractor to produce the additional information, whichever is greater.

25.7.2.1.3. For claims of over fifty thousand dollars (\$50,000) and less than or equal to three hundred seventy-five thousand dollars (\$375,000), the District shall respond in writing to all written Claims within sixty (60) days of receipt of the claim, or may request, in writing, within thirty (30) days of receipt of the Claim any additional documentation supporting the Claim or relating to defenses or claims the District may have against the Contractor.

25.7.2.1.3.1. If additional information is required, it shall be requested and provided upon mutual agreement of the District and the Contractor.

25.7.2.1.3.2. The District's written response to the claim, as further documented, shall be submitted to the Contractor within thirty (30) days after receipt of the further documentation, or within a period of time no greater than that taken by the Contractor to produce the additional information or requested documentation, whichever is greater.

25.7.2.2. If Contractor disputes the District's written response, or the District fails to respond within the time prescribed, Contractor may so notify the District, in writing, either within fifteen (15) days of receipt of the District's response or within fifteen (15) days of the District's failure to respond within the time prescribed, respectively, and demand an informal conference to meet and confer for settlement of the issues in dispute. Upon a demand, the District shall schedule a meet and confer conference within thirty (30) days for settlement of the dispute.

25.7.2.3. Following the meet and confer conference, if the claim or any portion of it remains in dispute, the Contractor may file a claim as provided in Chapter 1 (commencing with Section 900) and Chapter 2 (commencing with Section 910) of Part 3 of Division 3.6 of Title 1 of the Government Code. For purposes of those provisions the running of the time within which a claim must be filed shall be tolled from the time the Contractor submits its written Claim until the time the Claim is denied, including any period of time utilized by the meet and confer process.

25.7.2.4. For any civil action filed to resolve claims filed pursuant to this section, within sixty (60) days, but no earlier than thirty (30) days, following the filing of responsive pleadings, the court shall submit the matter to nonbinding mediation unless waived by mutual stipulation of both parties. The mediation process shall provide for the selection within fifteen (15) days by both parties of a disinterested third person as mediator, shall be commenced within thirty (30) days of the submittal, and shall be concluded within fifteen (15) days from the commencement of the mediation unless a time requirement is extended upon a good cause showing to the court or by stipulation of both parties. If the parties

fail to select a mediator within the 15-day period, any party may petition the court to appoint the mediator.

25.7.2.5. [Reserved].

25.7.2.6. The District shall not fail to pay money as to any portion of a Claim which is undisputed except as otherwise provided in the Contract Documents. In any suit filed pursuant to this section, the District shall pay interest at the legal rate on any arbitration award or judgment. Interest shall begin to accrue on the date the suit is filed in a court of law.

25.7.3. Claims Over \$375,000

25.7.3.1. For all Claims of over three hundred seventy-five thousand dollars (\$375,000) which arise between a Contractor and the District, the following procedure shall apply:

25.7.3.1.1. The parties agree to first endeavor to settle the dispute in an amicable manner by mediation before having recourse to a judicial forum. The Claim shall be identified in writing to the District within thirty (30) days from the date of Contractor's application for final payment of all Contract balances not in dispute and shall be mediated within one hundred and twenty (120) days from the submission of the Claim to the District. Mediator fees and administrative costs of the mediation shall be shared equally by the parties.

25.7.3.1.2. District may assert any counter-claims it has for damages against Contractor, including, but not limited to, defective Work, delay damages, and liquidated damages.

25.7.4. Contractor shall bind its Subcontractors to the provisions of this section and will hold the District harmless against disputes by Subcontractors.

25.8. **Dispute and Claim Resolution Non-Applicability**

25.8.1. The procedures for dispute and claim resolutions set forth in this Article shall not apply to the following:

25.8.1.1. Personal injury, wrongful death or property damage claims;

25.8.1.2. Latent defect or breach of warranty or guarantee to repair;

25.8.1.3. Stop payment notices;

25.8.1.4. District's rights set forth in the Article on Suspension and Termination;

25.8.1.5. Disputes arising out of State labor compliance, if applicable; or

25.8.1.6. District rights and obligations as a public entity set forth in applicable statutes; provided, however, that penalties imposed against a public entity by

statutes, including, but not limited to, Public Contract Code sections 20104.50 and 7107, shall be subject to the Dispute and Claim Resolution requirements provided in this Article.

25.8.1.7. District's rights to seek provisional equitable remedies, including temporary retraining orders or preliminary injunctive relief.

25.9. Contractor's costs incurred in seeking relief under this Article are not recoverable from the District.

26. STATE LABOR, WAGE & HOUR, APPRENTICE, AND RELATED PROVISIONS

26.1. Labor Compliance and Enforcement

Since this Project is subject to labor compliance and enforcement by the Department of Industrial Relations ("DIR"), Contractor specifically acknowledges and understands that it shall perform the Work of this Agreement while complying with all the applicable provisions of Division 2, Part 7, Chapter 1, of the Labor Code and Title 8 of the California Code of Regulations, including, without limitation, the requirement that the Contractor and all Subcontractors shall timely furnish complete and accurate electronic certified payroll records directly to the DIR. The District may not issue payment if this requirement is not met.

26.2. Wage Rates, Travel, and Subsistence

26.2.1. Pursuant to the provisions of article 2 (commencing at section 1770), chapter 1, part 7, division 2, of the Labor Code of California, the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work in the locality in which this public work is to be performed for each craft, classification, or type of worker needed to execute this Contract are on file at the District's principal office and copies will be made available to any interested party on request. Contractor shall obtain and post a copy of these wage rates at the job site.

26.2.2. Holiday and overtime work, when permitted by law, shall be paid for at the general prevailing rate of per diem wages for holiday and overtime work on file with the Director of the Department of Industrial Relations, unless otherwise specified. The holidays upon which those rates shall be paid need not be specified by the District, but shall be all holidays recognized in the applicable collective bargaining agreement. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code.

26.2.3. Contractor shall pay and shall cause to be paid each worker engaged in Work on the Project the general prevailing rate of per diem wages determined by the Director of the Department of Industrial Relations, regardless of any contractual relationship which may be alleged to exist between Contractor or any Subcontractor and such workers.

26.2.4. If during the period this bid is required to remain open, the Director of the Department of Industrial Relations determines that there has been a change in any

prevailing rate of per diem wages in the locality in which the Work under the Contract is to be performed, such change shall not alter the wage rates in the Notice to Bidders or the Contract subsequently awarded.

26.2.5. Pursuant to Labor Code section 1775, Contractor shall, as a penalty to District, forfeit the statutory amount (believed by the District to be currently up to two hundred dollars (\$200) for each calendar day, or portion thereof, for each worker paid less than the prevailing rates, determined by the District and/or the Director, for the work or craft in which that worker is employed for any public work done under Contract by Contractor or by any Subcontractor under it. The difference between such prevailing wage rates and the amount paid to each worker for each calendar day or portion thereof for which each worker was paid less than the prevailing wage rate shall be paid to each worker by Contractor.

26.2.6. Any worker employed to perform Work on the Project, which Work is not covered by any classification listed in the general prevailing wage rate of per diem wages determined by the Director, shall be paid not less than the minimum rate of wages specified therein for the classification which most nearly corresponds to Work to be performed by him, and such minimum wage rate shall be retroactive to time of initial employment of such person in such classification.

26.2.7. Pursuant to Labor Code section 1773.1, per diem wages are deemed to include employer payments for health and welfare, pension, vacation, travel time, subsistence pay, and apprenticeship or other training programs authorized by Labor Code section 3093, and similar purposes.

26.2.8. Contractor shall post at appropriate conspicuous points on the Site of Project, a schedule showing all determined minimum wage rates and all authorized deductions, if any, from unpaid wages actually earned. In addition, Contractor shall post a sign-in log for all workers and visitors to the Site, a list of all subcontractors of any tier on the Site, and the required Equal Employment Opportunity poster(s).

26.3. Hours of Work

26.3.1. As provided in article 3 (commencing at section 1810), chapter 1, part 7, division 2, of the Labor Code, eight (8) hours of labor shall constitute a legal days work. The time of service of any worker employed at any time by Contractor or by any Subcontractor on any subcontract under this Contract upon the Work or upon any part of the Work contemplated by this Contract shall be limited and restricted by Contractor to eight (8) hours per day, and forty (40) hours during any one week, except as hereinafter provided. Notwithstanding the provisions hereinabove set forth, Work performed by employees of Contractor in excess of eight (8) hours per day and forty (40) hours during any one week, shall be permitted upon this public work upon compensation for all hours worked in excess of eight (8) hours per day at not less than one and one-half times the basic rate of pay.

26.3.2. Contractor shall keep and shall cause each Subcontractor to keep an accurate record showing the name of and actual hours worked each calendar day and each calendar week by each worker employed by Contractor in connection with the Work or any part of the Work contemplated by this Contract. The record shall be

kept open at all reasonable hours to the inspection of District and to the Division of Labor Standards Enforcement of the DIR.

26.3.3. Pursuant to Labor Code section 1813, Contractor shall as a penalty to the District forfeit the statutory amount (believed by the District to be currently twenty-five dollars (\$25)) for each worker employed in the execution of this Contract by Contractor or by any Subcontractor for each calendar day during which such worker is required or permitted to work more than eight (8) hours in any one calendar day and forty (40) hours in any one calendar week in violation of the provisions of article 3 (commencing at section 1810), chapter 1, part 7, division 2, of the Labor Code.

26.3.4. Any Work necessary to be performed after regular working hours, or on Sundays or other holidays shall be performed without additional expense to the District.

26.4. Payroll Records

26.4.1. Contractor shall upload, and shall cause each Subcontractor performing any portion of the Work under this Contract to upload, an accurate and complete certified payroll record ("CPR") using the Public Works Payroll Reporting Form, including certification (DIR [Form A-1-131](#) or current version), and Statement of Employer Payments (DIR Form PW 26) through the eCPR application using PDF to the DIR at <https://apps.dir.ca.gov/ecpr/DAS/AltLogin> or current application and URL, showing the name, address, social security number, work classification, straight time, and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker, or other employee employed by the Contractor and/or each Subcontractor in connection with the Work.

26.4.1.1. The CPRs enumerated hereunder shall be filed directly with the DIR on a weekly basis or to the requesting party, whether the District or DIR, within ten (10) days after receipt of each written request. The CPRs from the Contractor and each Subcontractor for each week shall be provided on or before Wednesday of the week following the week covered by the CPRs. District may not make any payment to Contractor until:

26.4.1.1.1. Contractor and/or its Subcontractor(s) provide CPRs acceptable to the DIR; and

26.4.1.1.2. Any delay in Contractor and/or its Subcontractor(s) providing CPRs to the DIR in a timely manner may directly delay Contractor's payment.

26.4.2. All CPRs shall be available for inspection at all reasonable hours at the principal office of Contractor on the following basis:

26.4.2.1. A certified copy of an employee's CPR shall be made available for inspection or furnished to the employee or his/her authorized representative on request.

26.4.2.2. CPRs shall be made available for inspection or furnished upon request to a representative of District, Division of Labor Standards Enforcement, Division of Apprenticeship Standards, and/or the DIR.

26.4.2.3. CPRs shall be made available upon request by the public for inspection or copies thereof made; provided, however, that a request by the public shall be made through the District, Division of Apprenticeship Standards, or the Division of Labor Standards Enforcement. If the requested CPRs have not been provided pursuant to the provisions herein, the requesting party shall, prior to being provided the records reimburse the costs of preparation by Contractor, Subcontractors, and the entity through which the request was made. The public shall not be given access to the records at the principal office of Contractor.

26.4.3. Any copy of records made available for inspection as copies and furnished upon request to the public or any public agency by District, Division of Apprenticeship Standards, or Division of Labor Standards Enforcement shall be marked or obliterated in such a manner as to prevent disclosure of an individual's name, address, and social security number. The name and address of Contractor awarded Contract or performing Contract shall not be marked or obliterated.

26.4.4. Contractor shall inform District of the location of the records enumerated hereunder, including the street address, city, and county, and shall, within five (5) working days, provide a notice of change of location and address.

26.4.5. In the event of noncompliance with the requirements of this section, Contractor shall have ten (10) days in which to comply subsequent to receipt of written notice specifying in what respects Contractor must comply with this section. Should noncompliance still be evident after the ten (10) day period, Contractor shall, as a penalty to District, forfeit up to one hundred dollars (\$100) for each calendar day, or portion thereof, for each worker, until strict compliance is effectuated. Upon the request of Division of Apprenticeship Standards or Division of Labor Standards Enforcement, these penalties shall be withheld from progress payments then due.

26.5. [RESERVED]

26.6. Apprentices

26.6.1. Contractor acknowledges and agrees that, if this Contract involves a dollar amount greater than or a number of working days greater than that specified in Labor Code section 1777.5, then this Contract is governed by the provisions of Labor Code Section 1777.5. It shall be the responsibility of Contractor to ensure compliance with this Article and with Labor Code section 1777.5 for all apprenticeship occupations.

26.6.2. Apprentices of any crafts or trades may be employed and, when required by Labor Code section 1777.5, shall be employed provided they are properly registered in full compliance with the provisions of the Labor Code.

26.6.3. Every such apprentice shall be paid the standard wage paid to apprentices under the regulations of the craft or trade at which he/she is employed, and shall be employed only at the work of the craft or trade to which she/he is registered.

26.6.4. Only apprentices, as defined in section 3077 of the Labor Code, who are in training under apprenticeship standards and written apprentice agreements under chapter 4 (commencing at section 3070), division 3, of the Labor Code, are eligible to be employed. The employment and training of each apprentice shall be in accordance with the provisions of the apprenticeship standards and apprentice agreements under which he/she is training.

26.6.5. Pursuant to Labor Code section 1777.5, if that section applies to this Contract as indicated above, Contractor and any Subcontractors employing workers in any apprenticeable craft or trade in performing any Work under this Contract shall apply to the applicable joint apprenticeship committee for a certificate approving the Contractor or Subcontractor under the applicable apprenticeship standards and fixing the ratio of apprentices to journeymen employed in performing the Work.

26.6.6. Pursuant to Labor Code section 1777.5, if that section applies to this Contract as indicated above, Contractor and any Subcontractor may be required to make contributions to the apprenticeship program.

26.6.7. If Contractor or Subcontractor willfully fails to comply with Labor Code section 1777.5, then, upon a determination of noncompliance by the Administrator of Apprenticeship, it shall:

26.6.7.1. Be denied the right to bid on any subsequent project for one (1) year from the date of such determination;

26.6.7.2. Forfeit as a penalty to District the full amount as stated in Labor Code section 1777.7. Interpretation and enforcement of these provisions shall be in accordance with the rules and procedures of the California Apprenticeship Council and under the authority of the Chief of the Division of Apprenticeship Standards.

26.6.8. Contractor and all Subcontractors shall comply with Labor Code section 1777.6, which section forbids certain discriminatory practices in the employment of apprentices.

26.6.9. Contractor shall become fully acquainted with the law regarding apprentices prior to commencement of the Work. Special attention is directed to sections 1777.5, 1777.6, and 1777.7 of the Labor Code, and title 8, California Code of Regulations, section 200 et seq. Questions may be directed to the State Division of Apprenticeship Standards, 455 Golden Gate Avenue, San Francisco, California 94102.

26.7. Non-Discrimination

26.7.1. Contractor herein agrees not to discriminate in its recruiting, hiring, promotion, demotion, or termination practices on the basis of race, religious creed, national origin, ancestry, sex, age, or physical handicap in the performance of this

Contract and to comply with the provisions of the California Fair Employment and Housing Act as set forth in part 2.8 of division 3 of the California Government Code, commencing at section 12900; the Federal Civil Rights Act of 1964, as set forth in Public Law 88-352, and all amendments thereto; Executive Order 11246, and all administrative rules and regulations found to be applicable to Contractor and Subcontractor.

26.7.2. Special requirements for Federally Assisted Construction Contracts: During the performance of this Contract, Contractor agrees to incorporate in all subcontracts the provisions set forth in Chapter 60-1.4(b) of Title 41 published in Volume 33 No. 104 of the Federal Register dated May 28, 1968.

26.8. Labor First Aid

Contractor shall maintain emergency first aid treatment for Contractor's workers on the Project which complies with the Federal Occupational Safety and Health Act of 1970 (29 U.S.C. § 651 et seq.) and the California Occupational Safety and Health Act of 1973 (8 Cal. Code of Regs., §1 et seq.).

27. [RESERVED]

28. MISCELLANEOUS

28.1. Assignment of Antitrust Actions

28.1.1. Section 7103.5(b) of the Public Contract Code states:

In entering into a public works contract or subcontract to supply goods, services, or materials pursuant to a public works contract, the Contractor or subcontractor offers and agrees to assign to the awarding body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, made and become effective at the time the awarding body tenders final payment to the Contractor, without further acknowledgment by the parties.

28.1.2. Section 4552 of the Government Code states:

In submitting a bid to a public purchasing body, the bidder offers and agrees that if the bid is accepted, it will assign to the purchasing body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, materials, or services by the bidder for sale to the purchasing body pursuant to the bid. Such assignment shall be made and become effective at the time the purchasing body tenders final payment to the bidder.

28.1.3. Section 4553 of the Government Code states:

If an awarding body or public purchasing body receives, either through judgment or settlement, a monetary recovery for a cause of action assigned under this chapter, the assignor shall be entitled to receive reimbursement for actual legal costs incurred and may, upon demand, recover from the public body any portion of the recovery, including treble damages, attributable to overcharges that were paid by the assignor but were not paid by the public body as part of the bid price, less the expenses incurred in obtaining that portion of the recovery.

28.1.4. Section 4554 of the Government Code states:

Upon demand in writing by the assignor, the assignee shall, within one year from such demand, reassign the cause of action assigned under this part if the assignor has been or may have been injured by the violation of law for which the cause of action arose and (a) the assignee has not been injured thereby, or (b) the assignee declines to file a court action for the cause of action.

28.1.5. Under this Article, "public purchasing body" is District and "bidder" is Contractor.

28.2. Excise Taxes

If, under Federal Excise Tax Law, any transaction hereunder constitutes a sale on which a Federal Excise Tax is imposed and the sale is exempt from such Federal Excise Tax because it is a sale to a State or Local Government for its exclusive use, District, upon request, will execute documents necessary to show (1) that District is a political subdivision of the State for the purposes of such exemption, and (2) that the sale is for the exclusive use of District. No Federal Excise Tax for such materials shall be included in any Contract Price.

28.3. Taxes

Contract Price is to include any and all applicable sales taxes or other taxes that may be due in accordance with section 7051 of the Revenue and Taxation Code; Regulation 1521 of the State Board of Equalization or any other tax code that may be applicable.

28.4. Shipments

All shipments must be F.O.B. destination to Site or sites, as indicated in the Contract Documents. There must be no charge for containers, packing, unpacking, drayage, or insurance. The total Contract Price shall be all inclusive (including sales tax) and no additional costs of any type will be considered.

28.5. Compliance with Government Reporting Requirements

If this Contract is subject to federal or other governmental reporting requirements because of federal or other governmental financing in whole or in part for the Project of which it is part, or for any other reason, Contractor shall comply with those reporting requirements at the request of the District at no additional cost.

END OF DOCUMENT

DOCUMENT 00 73 13

SPECIAL CONDITIONS**1. Mitigation Measures**

Contractor shall comply with all applicable mitigation measures, if any, adopted by any public agency with respect to this Project pursuant to the California Environmental Quality Act. (Public Resources Code section 21000 et seq.)

2. Modernization Projects

2.1. Access. Access to the school buildings and entry to buildings, classrooms, restrooms, mechanical rooms, electrical rooms, or other rooms, for construction purposes, must be coordinated with District and onsite District personnel before Work is to start. Unless agreed to otherwise in writing, only a school custodian will be allowed to unlock and lock doors in existing building(s). The custodian will be available only while school is in session. If a custodian is required to arrive before 7:00 a.m. or leave after 3:30 p.m. to accommodate Contractor's Work, the overtime wages for the custodian will be paid by the Contractor, unless at the discretion of the District, other arrangements are made in advance.

2.2. Maintaining Services. The Contractor is advised that Work is to be performed in spaces regularly scheduled for instruction. Interruption and/or periods of shutdown of public access, electrical service, water service, lighting, or other utilities shall be only as arranged in advance with the District. Contractor shall provide temporary services to all facilities interrupted by Contractor's Work.

2.3. Maintaining Utilities. The Contractor shall maintain in operation during duration of Contract, drainage lines, storm drains, sewers, water, gas, electrical, steam, and other utility service lines within working area.

2.4. Confidentiality. Contractor shall maintain the confidentiality of all information, documents, programs, procedures and all other items that Contractor encounters while performing the Work. This requirement shall be ongoing and shall survive the expiration or termination of this Contract and specifically includes, without limitation, all student, parent, and employee disciplinary information and health information.

2.5. Work During Instructional Time. By submitting its bid, Contractor affirms that Work may be performed during ongoing instruction in existing facilities. If so, Contractor agrees to cooperate to the best of its ability to minimize any disruption to the school up to, and including, rescheduling specific work activities, at no additional cost to District.

2.6. No Work During Student Testing. Contractor shall, at no additional cost to the District and at the District's request, coordinate its Work to not disturb District students including, without limitation, not performing any Work when students at the Site are taking State-required tests.

3. Substitution for Specified Items

3.1. Whenever in the Specifications any materials, process, or article is indicated or specified by grade, patent, or proprietary name, or by name of manufacturer, that Specification shall be deemed to be followed by the words "or equal." Contractor may, unless otherwise stated, offer any material, process, or article that shall be substantially equal or better in every respect to that so indicated or specified.

3.1.1. If the material, process, or article offered by Contractor is not, in the opinion of the District, substantially equal or better in every respect to that specified, then Contractor shall furnish the material, process, or article specified in the Specifications without any additional compensation or change order.

3.1.2. This provision shall not be applicable with respect to any material, product, thing or service for which District made findings and gave notice in accordance with Public Contract Code section 3400(c); therefore, Contractor shall not be entitled to request a substitution with respect to those materials, products or services.

3.2. A request for a substitution shall be submitted as follows:

3.2.1. Contractor shall notify the District in writing of any request for a substitution at least ten (10) days prior to bid opening as indicated in the Instructions to Bidders.

3.2.2. Requests for Substitutions after award of the Contract shall be submitted within thirty-five (35) days of the date of the Notice of Award.

3.3. Within 35 days after the date of the Notice of Award, Contractor shall provide data substantiating a request for substitution of "an equal" item, including but not limited to the following:

3.3.1. All variations of the proposed substitute from the material specified including, but not limited to, principles of operation, materials, or construction finish, thickness or gauge of materials, dimensions, weight, and tolerances;

3.3.2. Available maintenance, repair or replacement services;

3.3.3. Increases or decreases in operating, maintenance, repair, replacement, and spare parts costs;

3.3.4. Whether or not acceptance of the substitute will require other changes in the Work (or in work performed by the District or others under Contract with the District); and

3.3.5. The time impact on any part of the Work resulting directly or indirectly from acceptance of the proposed substitute.

3.4. No substitutions shall be made until approved, in writing, by the District. The burden of proof as to equality of any material, process, or article shall rest with Contractor. The Contractor warrants that if substitutes are approved:

3.4.1. The proposed substitute is equal or superior in all respects to that specified, and that such proposed substitute is suitable and fit for the intended purpose and will perform adequately the function and achieve the results called for by the general design and the Contract Documents;

3.4.2. The Contractor provides the same warranties and guarantees for the substitute that would be provided for that specified;

3.4.3. The Contractor shall be fully responsible for the installation of the substitute and any changes in the Work required, either directly or indirectly, because of the acceptance of such substitute, with no increase in Contract Price or Contract Time. Incidental changes or extra component parts required to accommodate the substitute will be made by the Contractor without a change in the Contract Price or Contract Time;

3.4.4. The Contractor shall be responsible for any re-design costs occasioned by District's acceptance and/or approval of any substitute; and

3.4.5. The Contractor shall, in the event that a substitute is less costly than that specified, credit the District with one hundred percent (100%) of the net difference between the substitute and the originally specified material. In this event, the Contractor agrees to execute a deductive Change Order to reflect that credit.

3.5. In the event Contractor furnishes a material, process, or article more expensive than that specified, the difference in the cost of that material, process, or article so furnished shall be borne by Contractor.

3.6. In no event shall the District be liable for any increase in Contract Price or Contract Time due to any claimed delay in the evaluation of any proposed substitute or in the acceptance or rejection of any proposed substitute.

3.7. Contractor shall be responsible for any costs the District incurs for professional services and/or DSA fees or delay to the Project Schedule, if applicable, while DSA reviews changes for the convenience of Contractor and/or to accommodate Contractor's means and methods. District may deduct those costs from any amounts owing to the Contractor for the review of the request for substitution, even if the request for substitution is not approved. District, at its sole discretion, shall deduct from the payments due to and/or invoice Contractor for all the professional services and/or DSA fees or delay to the Project Schedule, if applicable, while DSA reviews changes for the convenience of Contractor and/or to accommodate Contractor's means and methods arising herein.

4. Weather Days

Delays due to Adverse Weather conditions will only be permitted in compliance with the provisions in the General Conditions and only if the number of days of Adverse Weather exceeds the following parameters and Contractor can verify that the excess days of Adverse Weather caused delays:

January	11	July	0
February	10	August	0
March	10	September	1
April	6	October	4
May	3	November	7
June	1	December	10

5. Insurance Policy Limits

All of Contractor’s insurance shall be with insurance companies with an A.M. Best rating of no less than A: VII The limits of insurance shall not be less than:

Commercial General Liability	Product Liability and Completed Operations, Fire Damage Liability – Split Limit	\$1,000,000 Per occurrence; \$2,000,000 aggregate
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6. Permits, Certificates, Licenses, Fees, Approval

6.1. Payment of Fees for Permits, Certificates, Licenses, and Registrations.

As required in the General Conditions, the Contractor shall secure and pay for all permits, licenses, registrations, and certificates necessary for the prosecution of the Work with the exception of the following:

- 6.1.1. WATER CONNECTION FEES**
- 6.1.2. SEWER CONNECTION FEES**
- 6.1.3. STORM DRAIN CONNECTION FEES**

With respect to the above listed items, Contractor shall be responsible for securing such items; however, District will be responsible for payment of these charges or fees. Contractor shall notify the District of the amount due with respect to such items and to whom the amount is payable. Contractor shall provide the District with an invoice and receipt with respect to such charges or fees.

6.2. General Permit For Storm Water Discharges Associated With Construction and Land Disturbance Activities

6.2.1. Contractor acknowledges that all California community college districts are obligated to develop and implement the following requirements for the discharge of storm water to surface waters from its construction and land disturbance activities (storm water requirements), without limitation:

6.2.1.1. Municipal Separate Storm Sewer System (MS4) is a system of conveyances used to collect and/or convey storm water, including, without limitation, catch basins, curbs, gutters, ditches, man-made channels, and storm drains.

6.2.1.2. Storm Water Pollution Prevention Plan (SWPPP) contains specific best management practices (BMPs) and establishes numeric effluent limitations at:

6.2.1.2.1. Sites where the District engages in maintenance (e.g., fueling, cleaning, repairing) for transportation activities.

6.2.1.2.2. Construction sites where:

6.2.1.2.2.1. One (1) or more acres of soil will be disturbed, or

6.2.1.2.2.2. The project is part of a larger common plan of development that disturbs more than one (1) acre of soil.

6.2.2. Contractor shall comply with any District storm water requirements that are approved by the District and applicable to the Project, at no additional cost to the District.

6.2.3. At no additional cost to the District, Contractor shall provide a Qualified Storm Water Practitioner who shall be onsite and implement and monitor any and all SWPPP requirements applicable to the Project, including but not limited to:

6.2.3.1. At least forty eight (48) hours prior to a forecasted rain event, implementing the Rain Event Action Plan (REAP) for any rain event requiring implementation of the REAP, including any erosion and sediment control measures needed to protect all exposed portions of the site; and

6.2.3.2. Monitoring any Numeric Action Levels (NALs), if applicable.

7. As-Builts and Record Drawings

7.1. When called for by Division 1, Contractor shall submit As-Built Drawings pursuant to the Contract Documents consisting of one set of As-Built drawings in 30" x 42" color reprographic, plus one set of As Built Drawings in .pdf format provided on disc or thumb drive

7.2. Contractor shall submit Record Drawings pursuant to the Contract Documents consisting of one set of computer-aided design and drafting ("CADD") files, plus one

set of Record Drawings in 30" x 42" color reprographic, plus one set of Record Drawings in .pdf format provided on disc or thumb drive

8. Construction Manager

The District will use a Construction Manager on the Project that is the subject of this Contract. Gilbane Building Company is the Construction Manager for this Project.

9. Program Manager

Gilbane Building Company is the Program Manager designated for the Project that is the subject of this Contract.

10. Preliminary Schedule of Values

The preliminary schedule of values shall include, at a minimum, the following information and the following structure:

Replace provision in the General Conditions with the following provisions:

10.1.1.2.3. The preliminary schedule of values shall not provide for values any greater than the following percentages of the Contract value:

- 10.1.1.2.3.1.** Mobilization and layout combined to equal not more than [1]%;
- 10.1.1.2.3.2.** Submittals, samples and shop drawings combined to equal not more than [3]%;
- 10.1.1.2.3.3.** Bonds and insurance combined to equal not more than [2].

11. Construction Work Hours

Construction activities on campus shall be restricted to between the hours of 7:00 am and 7:00 pm on weekdays and Saturdays. Work on Sundays and holidays will be upon approval and acceptance of the Marin Community College District

END OF DOCUMENT

DOCUMENT 00 73 56

**HAZARDOUS MATERIALS
PROCEDURES & REQUIREMENTS**

1. Summary

This document includes information applicable to hazardous materials and hazard waste abatement.

2. Notice of Hazardous Waste or Materials Conditions

- a. Contractor shall give notice in writing to the District, the Construction Manager, and the Architect promptly, before any of the following conditions are disturbed, and in no event later than twenty-four (24) hours after first observance, of any:
 - (1) Material that Contractor believes may be material that is hazardous waste or hazardous material, as defined in section 25117 of the Health and Safety Code, that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law;
 - (2) Other material that may present a substantial danger to persons or property exposed thereto in connection with Work at the site.
- b. Contractor's written notice shall indicate whether the hazardous waste or material was shown or indicated in the Contract Documents to be within the scope of Work, and whether the materials were brought to the site by Contractor, its Subcontractors, suppliers, or anyone else for whom Contractor is responsible. As used in this section the term "hazardous materials" shall include, without limitation, asbestos, lead, Polychlorinated biphenyl (PCB), petroleum and related hydrocarbons, and radioactive material.
- c. In response to Contractor's written notice, the District shall investigate the identified conditions.
- d. If the District determines that conditions do not involve hazardous materials or that no change in terms of Contract is justified, the District shall so notify Contractor in writing, stating reasons. If the District and Contractor cannot agree on whether conditions justify an adjustment in Contract Price or Contract Time, or on the extent of any adjustment, Contractor shall proceed with the Work as directed by the District.
- e. If after receipt of notice from the District, Contractor does not agree to resume Work based on a reasonable belief it is unsafe, or does not agree to resume Work under special conditions, then District may order such portion of Work that is in connection with such hazardous condition or such affected area to be deleted from the Work, or performed by others, or District may invoke its rights to terminate the Contract in whole or in part. District will determine entitlement to or the amount or extent of an adjustment, if any, in

Contract Price or Contract Time as a result of deleting such portion of Work, or performing the Work by others.

- f. If Contractor stops Work in connection with any hazardous condition and in any area affected thereby, Contractor shall immediately redeploy its workers, equipment, and materials, as necessary, to other portions of the Work to minimize delay and disruption.

3. Additional Warranties and Representations

- a. Contractor represents and warrants that it, its employees, and its subcontractors and their employees, shall at all times have the required levels of familiarity with the Site and the Work, training, and ability to comply fully with all applicable law and contract requirements for safe and expeditious performance of the Work, including whatever training is or may be required regarding the activities to be performed (including, but not limited to, all training required to address adequately the actual or potential dangers of Contract performance).
- b. Contractor represents and warrants that it, its employees, and its subcontractors and their employees, shall at all times have and maintain in good standing any and all certifications and licenses required by applicable federal, state, and other governmental and quasi-governmental requirements applicable to the Work.
- c. Contractor represents and warrants that it has studied carefully all requirements of the Specifications regarding procedures for demolition, hazardous waste abatement, or safety practices, specified in the Contract, and prior to submitting its bid, has either (a) verified to its satisfaction that the specified procedures are adequate and sufficient to achieve the results intended by the Contract Documents, or (b) by way of approved "or equal" request or request for clarification and written Addenda, secured changes to the specified procedures sufficient to achieve the results intended by the Contract Documents. Contractor accepts the risk that any specified procedure will result in a completed Project in full compliance with the Contract Documents.

4. Monitoring and Testing

- a. District reserves the right, in its sole discretion, to conduct air monitoring, earth monitoring, Work monitoring, and any other tests (in addition to testing required under the agreement or applicable law), to monitor Contract requirements of safe and statutorily compliant work methods and (where applicable) safe re-entry level air standards under state and federal law upon completion of the job, and compliance of the work with periodic and final inspection by public and quasi-public entities having jurisdiction.
- b. Contractor acknowledges that District has the right to perform, or cause to be performed, various activities and tests including, but not limited to, pre-abatement, during abatement, and post-abatement air monitoring, that

District shall have no obligation to perform said activities and tests, and that a portion of said activities and tests may take place prior to the completion of the Work by Contractor. In the event District elects to perform these activities and tests, Contractor shall afford District ample access to the Site and all areas of the Work as may be necessary for the performance of these activities and tests. Contractor will include the potential impact of these activities or tests by District in the Contract Price and the Scheduled Completion Date.

- c. Notwithstanding District's rights granted by this paragraph, Contractor may retain its own industrial hygiene consultant at Contractor's own expense and may collect samples and may perform tests including, but not limited to, pre-abatement, during abatement, and post-abatement personal air monitoring, and District reserves the right to request documentation of all such activities and tests performed by Contractor relating to the Work and Contractor shall immediately provide that documentation upon request.

5. Compliance with Laws

- a. Contractor shall perform safe, expeditious, and orderly work in accordance with the best practices and the highest standards in the hazardous waste abatement, removal, and disposal industry, the applicable law, and the Contract Documents, including, but not limited to, all responsibilities relating to the preparation and return of waste shipment records, all requirements of the law, delivering of all requisite notices, and obtaining all necessary governmental and quasi-governmental approvals.
- b. Contractor represents that it is familiar with and shall comply with all laws applicable to the Work or completed Work including, but not limited to, all federal, state, and local laws, statutes, standards, rules, regulations, and ordinances applicable to the Work relating to:
 - (1) The protection of the public health, welfare and environment;
 - (2) Storage, handling, or use of asbestos, PCB, lead, petroleum based products or other hazardous materials;
 - (3) The generation, processing, treatment, storage, transport, disposal, destruction, or other management of asbestos, PCB, lead, petroleum, or hazardous waste materials or other waste materials of any kind; and
 - (4) The protection of environmentally sensitive areas such as wetlands and coastal areas.

6. Disposal

- a. Contractor has the sole responsibility for determining current waste storage, handling, transportation, and disposal regulations for the job Site and for each waste disposal facility. Contractor must comply fully at its sole cost and

expense with these regulations and any applicable law. District may, but is not obligated to, require submittals with this information for it to review consistent with the Contract Documents.

- b. Contractor shall develop and implement a system acceptable to District to track hazardous waste from the Site to disposal, including appropriate "Hazardous Waste Manifests" on the EPA form, so that District may track the volume of waste it put in each landfill and receive from each landfill a certificate of receipt.
- c. Contractor shall provide District with the name and address of each waste disposal facility prior to any disposal, and District shall have the express right to reject any proposed disposal facility. Contractor shall not use any disposal facility to which District has objected. Contractor shall document actual disposal or destruction of waste at a designated facility by completing a disposal certificate or certificate of destruction forwarding the original to the District.

7. Permits

- a. Before performing any of the Work, and at such other times as may be required by applicable law, Contractor shall deliver all requisite notices and obtain the approval of all governmental and quasi-governmental authorities having jurisdiction over the Work. Contractor shall submit evidence satisfactory to District that it and any disposal facility
 - (1) have obtained all required permits, approvals, and the like in a timely manner both prior to commencement of the Work and thereafter as and when required by applicable law, and
 - (2) are in compliance with all such permits, approvals and the regulations.

For example, before commencing any work in connection with the Work involving asbestos-containing materials, or PCBs, or other hazardous materials subject to regulation, Contractor agrees to provide the required notice of intent to renovate or demolish to the appropriate state or federal agency having jurisdiction, by certified mail, return receipt requested, or by some other method of transmittal for which a return receipt is obtained, and to send a copy of that notice to District. Contractor shall not conduct any Work involving asbestos-containing materials or PCBs unless Contractor has first confirmed that the appropriate agency having jurisdiction is in receipt of the required notification. All permits, licenses, and bonds that are required by governmental or quasi-governmental authorities, and all fees, deposits, tap fees, offsite easements, and asbestos and PCB disposal facilities expenses necessary for the prosecution of the Work, shall be procured and paid for by Contractor. Contractor shall give all notices and comply with the all applicable laws bearing on the conduct of the Work as drawn and specified. If Contractor observes or reasonably should have observed that Plans and Specifications and other Contract Documents are at variance therewith, it shall be responsible for promptly notifying District in writing of such fact. If

Contractor performs any Work contrary to applicable laws, it shall bear all costs arising therefrom.

- b. In the case of any permits or notices held in District's name or of necessity to be made in District's name, District shall cooperate with Contractor in securing the permit or giving the notice, but the Contractor shall prepare for District review and execution upon approval, all necessary applications, notices, and other materials.

8. Indemnification

To the extent permitted by law, the indemnities and limitations of liability expressed throughout the Contract Documents apply with equal force and effect to any claims or liabilities imposed or existing by virtue of the removal, abatement, and disposal of hazardous waste. This includes, but is not limited to, liabilities connected to the selection and use of a waste disposal facility, a waste transporter, personal injury, property damage, loss of use of property, damage to the environment or natural resources, or "disposal" and "release" of materials associated with the Work (as defined in 42 U.S.C. § 9601 et seq.).

9. Termination

District shall have an absolute right to terminate for default immediately without notice and without an opportunity to cure should Contractor knowingly or recklessly commit a material breach of the terms of the Contract Documents, or any applicable law, on any matter involving the exposure of persons or property to hazardous waste. However, if the breach of contract exposing persons or property to hazardous waste is due solely to an ordinary, unintentional, and non-reckless failure to exercise reasonable care, then the procedures for termination for cause shall apply without modification.

END OF DOCUMENT

DOCUMENT 00 91 00

**PREVAILING WAGE AND
RELATED LABOR REQUIREMENTS CERTIFICATION**

PROJECT/CONTRACT NO.: **I25-35612 – INTERIM CLASSROOMS** between Marin Community College District (“District”) and _____ (“Contractor” or “Bidder”) (“Contract” or “Project”).

I hereby certify that I will conform to the State of California Public Works Contract requirements regarding prevailing wages, benefits, on-site audits with 48-hours notice, payroll records, and apprentice and trainee employment requirements, for all Work on the above Project including, without limitation, labor compliance monitoring and enforcement by the Department of Industrial Relations.

Date: _____

Proper Name of Contractor: _____

Signature: _____

Print Name: _____

Title: _____

END OF DOCUMENT

DOCUMENT 01 11 00

SUMMARY OF WORK

PART 1 - GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions, including, without limitation, Site Access Conditions and Requirements;
- B. Special Conditions.

1.02 SUMMARY OF WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of this Contract may consist of the following:

Contractor will be responsible for Electrical, Fire Alarm, and Telecom scope of work indicated in the contract drawings. Contractor will also be responsible for ramps, landings and A/C paths indicated around the modular buildings. The district holds the contract for leasing the eight (8) modular buildings, and having them installed on site.

1.03 CONTRACTS

- A. Perform the Work under a single, fixed-price Contract.

1.04 WORK BY OTHERS

- A. Work on the Project that will be performed and completed prior to the start of the Work of this Contract:
 - (1) Modular buildings will be installed on site.
- B. Work on the Project that will be performed by others concurrent with the Work of this Contract:

NONE

1.05 CODES, REGULATIONS, AND STANDARDS

- A. The codes, regulations, and standards adopted by the state and federal agencies having jurisdiction shall govern minimum requirements for this project. Where codes, regulations, and standards conflict with the Contract

Documents, these conflicts shall be brought to the immediate attention of the District and the Architect.

- B. Codes, regulations, and standards shall be as published effective as of date of bid opening, unless otherwise specified or indicated.

1.06 PROJECT RECORD DOCUMENTS:

- A. Contractor shall maintain on Site one set of the following record documents; Contractor shall record actual revisions to the Work:
 - (1) Contract Drawings.
 - (2) Specifications.
 - (3) Addenda.
 - (4) Change Orders and other modifications to the Contract.
 - (5) Reviewed shop drawings, product data, and samples.
 - (6) Field test records.
 - (7) Inspection certificates.
 - (8) Manufacturer's certificates.
- B. Contractor shall store Record Documents separate from documents used for construction. Provide files, racks, and secure storage for Record Documents and samples.
- C. Contractor shall record information concurrent with construction progress.
- D. Specifications: Contractor shall legibly mark and record at each product section of the Specifications the description of the actual product(s) installed, including the following:
 - (1) Manufacturer's name and product model and number.
 - (2) Product substitutions or alternates utilized.
 - (3) Changes made by Addenda and Change Orders and written directives.

1.07 EXAMINATION OF EXISTING CONDITIONS

- A. Contractor shall be held to have examined the Project Site and acquainted itself with the conditions of the Site or of the streets or roads approaching the Site.

- B. Prior to commencement of Work, Contractor shall survey the Site and existing buildings and improvements to observe existing damage and defects such as cracks, sags, broken, missing or damaged glazing, other building elements and Site improvements, and other damage.
- C. Should Contractor observe cracks, sags, and other damage to and defects of the Site and adjacent buildings, paving, and other items not indicated in the Contract Documents, Contractor shall immediately report same to the District and the Architect.

1.08 CONTRACTOR'S USE OF PREMISES

- A. If unoccupied and only with District's prior written approval, Contractor may use the building(s) at the Project Site without limitation for its operations, storage, and office facilities for the performance of the Work. If the District chooses to beneficially occupy any building(s), Contractor must obtain the District's written approval for Contractor's use of spaces and types of operations to be performed within the building(s) while so occupied. Contractor's access to the building(s) shall be limited to the areas indicated.
- B. If the space at the Project Site is not sufficient for Contractor's operations, storage, office facilities and/or parking, Contractor shall arrange and pay for any additional facilities needed by Contractor.
- C. Contractor shall not interfere with use of or access to occupied portions of the building(s) or adjacent property.
- D. Contractor shall maintain corridors, stairs, halls, and other exit-ways of building clear and free of debris and obstructions at all times.
- E. No one other than those directly involved in the demolition and construction, or specifically designated by the District or the Architect shall be permitted in the areas of work during demolition and construction activities.
- F. The Contractor shall install the construction security fence and maintain that it will be locked when not in use. Keys to this fencing will be provided to the District.

1.09 PROTECTION OF EXISTING STRUCTURES AND UTILITIES

- A. The Drawings show above-grade and below-grade structures, utility lines, and other installations that are known or believed to exist in the area of the Work. Contractor shall locate these existing installations before proceeding with excavation and other operations that could damage same; maintain them in service, where appropriate; and repair damage to them caused by the performance of the Work. Should damage occur to these existing installations, the costs of repair shall be at the Contractor's expense and made to the District's satisfaction.

- B. Contractor shall be alert to the possibility of the existence of additional structures and utilities. If Contractor encounters additional structures and utilities, Contractor will immediately report to the District for disposition of same as indicated in the General Conditions.

1.10 UTILITY SHUTDOWNS AND INTERRUPTIONS

- A. Contractor shall give the District a minimum of three (3) days written notice in advance of any need to shut off existing utility services or to effect equipment interruptions. The District will set exact time and duration for shutdown, and will assist Contractor with shutdown. Work required to re-establish utility services shall be performed by the Contractor.
- B. Contractor shall obtain District's written approval as indicated in the General Conditions in advance of deliveries of material or equipment or other activities that may conflict with District's use of the building(s) or adjacent facilities.

1.11 STRUCTURAL INTEGRITY

- A. Contractor shall be responsible for and supervise each operation and work that could affect structural integrity of various building elements, both permanent and temporary.
- B. Contractor shall include structural connections and fastenings as indicated or required for complete performance of the Work.

PART 2 – PRODUCTS Not Used.

PART 3 – EXECUTION Not Used.

END OF DOCUMENT

DOCUMENT 01 22 00

ALTERNATES AND UNIT PRICING

PART 1 – ALTERNATES

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions;
- B. Special Conditions;
- C. Bid Form and Proposal;
- D. Instruction to Bidders.

1.02 DESCRIPTION

The items of work indicated below propose modifications to, substitutions for, additions to and/or deletions from the various parts of the Work specified in other Sections of the Specifications. The acceptance or rejection of any of the alternates is strictly at the option of the District subject to District's acceptance of Contractor's stated prices contained in this Proposal.

1.03 GENERAL

Where an item is omitted, or scope of Work is decreased, all Work pertaining to the item whether specifically stated or not, shall be omitted and where an item is added or modified or where scope of Work is increased, all Work pertaining to that required to render same ready for use on the Project in accordance with intention of Drawings and Specifications shall be included in an agreed upon price amount.

1.04 BASE BID

The Base Bid includes all work required to construct the Project completely and in accordance with the Contract Documents.

1.05 ALTERNATES

NONE

The above Alternate descriptions are general in nature and for reference purposes only. The Contract Documents, including, without limitation, the Drawings and Specifications, must be referred to for the complete scope of Work.

PART 2 - UNIT PRICING

2.01 GENERAL

Contractor shall completely state all required figures based on Unit Prices listed below. Where scope of Work is decreased, all Work pertaining to the item, whether specifically stated or not, shall be omitted and where scope of Work is increased, all work pertaining to that item required to render same ready for use on the Project in accordance with intention of Drawings and Specifications shall be included in an agreed upon price amount.

2.02 UNIT PRICES

Furnish unit prices for each of the named items on a square foot, lineal foot, or per each basis, as applies. Unit prices shall include all labor, materials, services, profit, overhead, insurance, bonds, taxes, and all other incidental costs of Contractor, subcontractors, and supplier(s).

None

END OF DOCUMENT

DOCUMENT 01 25 13

PRODUCT OPTIONS AND SUBSTITUTIONS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. Instructions to Bidders;
- B. General Conditions, including, without limitation, Substitutions For Specified Items;
- C. Special Conditions.

1.02 SUBSTITUTIONS OF MATERIALS AND EQUIPMENT:

- A. Catalog numbers and specific brands or trade names followed by the designation "or equal" are used in conjunction with material and equipment required by the Specifications to establish the standards of quality, utility, and appearance required. Substitutions which are equal in quality, utility, and appearance to those specified may be reviewed subject to the provisions of the General Conditions.
- B. Wherever more than one manufacturer's product is specified, the first-named product is the basis for the design used in the work and the use of alternative-named manufacturers' products or substitutes may require modifications in that design. If such alternatives are proposed by Contractor and are approved by the District and/or the Architect, Contractor shall assume all costs required to make necessary revisions and modifications of the design resulting from the substitutions requested by the Contractor.
- C. When materials and equipment are specified by first manufacturer's name and product number, second manufacturer's name and "or approved equal," supporting data for the second product, if proposed by Contractor, shall be submitted in accordance with the requirements for substitutions.
- D. If the District and/or Architect, in reviewing proposed substitute materials and equipment, require revisions or corrections to be made to previously accepted Shop Drawings and supplemental supporting data to be resubmitted, Contractor shall promptly do so. If any proposed substitution is judged by the District and/or Architect to be unacceptable, the specified material or equipment shall be provided.
- E. Samples may be required. Tests required by the District and/or Architect for the determination of quality and utility shall be made at the expense of Contractor, with acceptance of the test procedure first given by the District.

- F. In reviewing the supporting data submitted for substitutions, the District and/or Architect will use for purposes of comparison all the characteristics of the specified material or equipment as they appear in the manufacturer's published data even though all the characteristics may not have been particularly mentioned in the Contract Documents. If more than two (2) submissions of supporting data are required, the cost of reviewing the additional supporting data shall be borne by Contractor, and the District will deduct the costs from the Contract Price.

PART 2 – PRODUCTS Not Used.

PART 3 – EXECUTION Not Used.

END OF DOCUMENT

SECTION 01 26 00

CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. This section specifies administrative and procedural requirements for handling and processing contract modifications.

1.2 RELATED SECTIONS

- A. Section 01 29 75: Applications and Certifications for Payment.
- B. Section 01 60 00: Product Requirements for administrative procedures for handling request for substitution after award of contract.

1.3 CHANGE ORDER PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: The Architect will issue a detailed description of proposed changes in the Work that will require adjustment to the Contract Sum or Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
 - 1. Proposal requests issued by the Architect through the Program Manager are not to be considered as an instruction either to stop work in progress or to execute the proposed change.
 - 2. Should the Owner contemplate making a change in the Work or a change in the Contract Time of Completion, the Architect will issue a "Proposal Request" through the Program Manager to the Contractor.
 - 3. Within 10 working days of receipt of a Proposal Request, initiated by the Owner, submit a quotation of cost necessary to execute the change to the Program Manager for Owner's review.
 - a. Include a list of quantities of products required and unit costs, with the total amount of purchases to be made. Where requested, furnish survey data to substantiate quantities.
 - b. Indicate applicable taxes, delivery charges, equipment rates and hours, and amounts of trade discounts.
 - c. Include labor rates with man-hours appropriate to the change.
 - d. Include a line item for applicable overhead and profit and/or fees.
 - e. Include a statement indicating the effect the proposed change in Work will have on the Contract Time.

1.4 CONSTRUCTION CHANGE DIRECTIVE

- A. Construction Change Directive: The Construction Change Directive is an architect issued document to change the DSA approved documents.
- B. Field Work Directive: The Field Work Directive instructs the Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
 - 1. The Field Work Directive contains a complete description of the change in the Work. It also designates the method to be followed to determine change in the Contract Sum or Contract Time.

1.5 MINOR CHANGES IN WORK

- A. The Architect will issue an Architect's Supplemental Instructions (ASI) authorizing minor changes in Work, not involving adjustment to the Contract Sum or Contract Time.

1.6 CHANGE ORDER PROCEDURES

- A. Upon the Owner's approval of a Proposal Request, the Program Manager will issue a Change Order for signatures by the Owner and the Contractor. All Change Orders shall be submitted to DSA per Group I, Chapter 4, Part I, Title 24, CBD by the Architect unless otherwise noted. Change Orders will be submitted to the Board of Trustees for approval on a monthly basis.
- B. Basis for Labor Wage Rates: The rates quoted in the Change Order Markup Format will be based upon the Labor Rate Worksheet submitted by the General Contractor within two weeks of Award of Contract. All Subcontractors must submit Labor Rate Worksheets when they first provide a quote for extra work. This Worksheet will provide the basis for any future change orders for which they perform work.
- C. General Contractor Mark-ups on Changes to the Work: In the event of Changes to the Work, pursuant to Article 8 of the General Conditions, the General Contractor's mark-up for all overhead, General Conditions costs and profit, shall be as follows:

Mark-ups on General Contractor's Direct Work Only: 15%
Mark-up on Subcontractors (all tiers) Direct Work Only: 5%

The 5% mark-up on Subcontractors is based upon their costs, not the total of their costs and their mark-up. Mark-ups upon subcontractor mark-ups are not allowed. The foregoing limitation on mark-ups shall apply regardless of the number of subcontractors, of any tier, performing any portion of such Change to the work. The contractor may add the actual bond premium fee of no greater than one percent (1%) of the actual direct costs for performance of the change.

- D. Subcontractor Mark-ups on Changes to the Work: In the event of Changes to the Work, pursuant to Article 8 of the General Conditions, the Subcontractor's mark-up for all overhead, General Conditions costs and profit, shall be as follows:

Mark-ups on Subcontractor's Direct Work Only: 15%
Mark-up on Lower Tier Subcontractor's Direct Work Only: 5%

The 5% mark-up on Lower Tier Subcontractors is based upon their costs, not the total of their costs and

their mark-up. Mark-ups upon subcontractor mark-ups are not allowed. The foregoing limitation on mark-ups shall apply regardless of the number of subcontractors, of any tier, performing any portion of such Change to the work.

Labor Rate Worksheet

Labor Rate Worksheet (Journeyman)

		Hourly Rate	
		Vacation	\$ _____
A. Trade/Classification Group:		Taxable Gross Total	\$ _____
Hourly Rate (Base):	\$ _____		
B. Fringe Benefits:		\$ _____	
1. Health/Welfare		\$ _____	
2. Pension		\$ _____	
3. Apprenticeship		\$ _____	
4. Other Detail		\$ _____	
Sub-Total Fringe Benefits:		\$ _____	
C. Total Rate of Base + Fringes =		\$ _____	
D. Labor Burdens:		% Amount	Base
			\$ Amount
1. F.I.C.A.	0.00%	X	\$ _____ = \$ _____
2. S.U.I.	0.00%	X	\$ _____ = \$ _____
3. F.U.I.	0.00%	X	\$ _____ = \$ _____
4. Workmen's Comp	0.00%	X	\$ _____ = \$ _____
5. Liability	0.00%	X	\$ _____ = \$ _____
E. Total Hourly Rate with Fringe Benefits and Burden:			\$ _____
		Total	\$ _____

Change Order Markup Format

Description of change: _____

Subcontractor's Costs

A.	Subcontractor Materials (include itemized quantity and unit costs plus sales tax)	\$ _____
B.	Subcontractor Labor (include itemized hours, trades/classification, and rates)	\$ _____
C.	Subcontractor Equipment Rentals (include invoices or standardized rate charges for contractor-owned equipment)	\$ _____
D.	Sub-Total Subcontractor	\$ _____
E.	Subcontractor markup on Subcontractor costs (15% of Line D)	\$ _____
F.	Subcontractor Total (Line D + Line E)	\$ _____

General Contractor's Costs

G.	GC Materials (include itemized quantity and unit costs plus salestax)	\$ _____
H.	GC Labor (Include itemized hours, trades and rates)	\$ _____
I.	GC Equipment Rentals (Include invoices or standardized rate charges for contractor-owned equipment)	\$ _____
J.	Sub-Total General Contractor	\$ _____
K.	General Contractor's markup on GC work (15% of Line J)	\$ _____
L.	General Contractor Total (Line J + Line K)	\$ _____

General Contractor Markup on Subcontractors and Bond Fees

M.	Costs of all Subcontractors (attach separate sheets for multiple Subcontractors performing any portion of this change and add up all line D's)	\$ _____
N.	General Contractor's Mark-up rate on Subcontractors' work (5% of Line M)	\$ _____
O.	Sub-Total (All Line F's + Line L + Line N)	\$ _____
P.	All Direct Costs (all Line D's + Line J)	\$ _____
Q.	Mark-Up for Bond Fees (1% of Line P)	\$ _____
	TOTAL CHANGE PROPOSAL (Line O + Line Q)	\$ _____

PART 2- PRODUCTS (NOT USED)

PART 3- EXECUTION (NOT USED)

END OF SECTION

DOCUMENT 01 31 19

PROJECT MEETINGS

PART I – GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions;
- B. Special Conditions;
- C. Summary of Work; and
- D. Submittals.

1.02 SECTION INCLUDES:

- A. Scheduling of Work under this Contract shall be performed by Contractor in accordance with requirements of this Section.
 - (1) Development of schedule, cost and resource loading of the schedule, monthly payment requests, and project status reporting requirements of the Contract shall employ computerized Critical Path Method ("CPM") scheduling ("CPM Schedule").
 - (2) CPM Schedule shall be cost loaded based on Schedule of Values as approved by District.
 - (3) Submit schedules and reports as specified in the General Conditions.
- B. Upon Notice of Award, Contractor shall immediately commence development of Initial and Original CPM Schedules to ensure compliance with CPM Schedule submittal requirements.

1.03 CONSTRUCTION SCHEDULE:

- A. Within ten (10) days of the Notice of Award and before request for first progress payment, the Contractor shall prepare and submit to the Project Manager a construction progress schedule conforming to the Milestone Schedule below.
- B. The Construction Schedule shall be continuously updated, and an updated schedule shall be submitted with each application for progress payment. Each revised schedule shall indicate the work actually accomplished during the previous period and the schedule for completion of the remaining work.

C. Milestone Schedule:

ACTIVITY DESCRIPTION

REQUIRED COMPLETION

**Notice To Proceed Issued
Completion of Contract**

**March 26, 2018
May 10, 2018**

1.04 QUALIFICATIONS

- A. Contractor shall employ experienced scheduling personnel qualified to use the latest version of **Primavera Project Planner**. Experience level required is set forth below. Contractor may employ such personnel directly or may employ a consultant for this purpose.
- (1) The written statement shall identify the individual who will perform CPM scheduling.
 - (2) Capability and experience shall be verified by description of construction projects on which individual has successfully applied computerized CPM.
 - (3) Required level of experience shall include at least two (2) projects of similar nature and scope with value not less than three-fourths ($\frac{3}{4}$) of the Total Bid Price of this Project. The written statement shall provide contact persons for referenced projects with current telephone and address information.
- B. District reserves the right to approve or reject Contractor's scheduler or consultant at any time. District reserves the right to refuse replacing Contractor's scheduler or consultant, if District believes replacement will negatively affect the scheduling of Work under this Contract.

1.05 GENERAL

- A. Progress Schedule shall be based on and incorporate milestone and completion dates specified in Contract Documents.
- B. Overall time of completion and time of completion for each milestone shown on Progress Schedule shall adhere to times in the Contract, unless an earlier (advanced) time of completion is requested by Contractor and agreed to by District. Any such agreement shall be formalized by a Change Order.
- (1) District is not required to accept an early completion schedule, i.e., one that shows earlier completion date than the Contract Time.
 - (2) Contractor shall not be entitled to extra compensation in event agreement is reached on an early completion schedule and Contractor

completes its Work, for whatever reason, beyond completion date shown in its early completion schedule but within the Contract Time.

- (3) A schedule showing the work completed in less than the Contract Time, and that has been accepted by District, shall be considered to have Project Float. The Project Float is the time between the scheduled completion of the work and the Completion Date. Project Float is a resource available to both District and the Contractor.
- C. Ownership Project Float: Neither the District nor Contractor owns Project Float. The Project owns the Project Float. As such, liability for delay of the Completion Date rests with the party whose actions, last in time, actually cause delay to the Completion Date.
- (1) For example, if Party A uses some, but not all of the Project Float and Party B later uses remainder of the Project Float as well as additional time beyond the Project Float, Party B shall be liable for the time that represents a delay to the Completion Date.
 - (2) Party A would not be responsible for the time since it did not consume the entire Project Float and additional Project Float remained; therefore, the Completion Date was unaffected by Party A.
- D. Progress Schedule shall be the basis for evaluating job progress, payment requests, and time extension requests. Responsibility for developing Contract CPM Schedule and monitoring actual progress as compared to Progress Schedule rests with Contractor.
- E. Failure of Progress Schedule to include any element of the Work, or any inaccuracy in Progress Schedule, will not relieve Contractor from responsibility for accomplishing the Work in accordance with the Contract. District's acceptance of schedule shall be for its use in monitoring and evaluating job progress, payment requests, and time extension requests and shall not, in any manner, impose a duty of care upon District, or act to relieve Contractor of its responsibility for means and methods of construction.
- F. Software: Use **District Project Planner for Windows, latest version**. Such software shall be compatible with Windows operating system. Contractor shall transmit contract file to District on compact disk at times requested by District.
- G. Transmit each item under the form approved by District.
- (1) Identify Project with District Contract number and name of Contractor.
 - (2) Provide space for Contractor's approval stamp and District's review stamps.

- (3) Submittals received from sources other than Contractor will be returned to the Contractor without District's review.

1.06 INITIAL CPM SCHEDULE

- A Initial CPM Schedule submitted for review at the pre-construction conference shall serve as Contractor's schedule for up to ninety (90) calendar days after the Notice to Proceed.
- B. Indicate detailed plan for the Work to be completed in first ninety (90) days of the Contract; details of planned mobilization of plant and equipment; sequence of early operations; procurement of materials and equipment. Show Work beyond ninety (90) calendar days in summary form.
- C. Initial CPM Schedule shall be time-scaled.
- D. Initial CPM Schedule shall be cost and resource loaded. Accepted cost and resource loaded schedule will be used as basis for monthly progress payments until acceptance of the Original CPM Schedule. Use of Initial CPM Schedule for progress payments shall not exceed ninety (90) calendar days.
- E. District and Contractor shall meet to review and discuss the Initial CPM Schedule within seven (7) calendar days after it has been submitted to District.
 - (1) District's review and comment on the schedule shall be limited to Contract conformance (with sequencing, coordination, and milestone requirements).
 - (2) Contractor shall make corrections to schedule necessary to comply with Contract requirements and shall adjust schedule to incorporate any missing information requested by District. Contractor shall resubmit Initial CPM Schedule if requested by District.
- F. If, during the first ninety (90) days after Notice to Proceed, the Contractor is of the opinion that any of the Work included on its Initial CPM Schedule has been impacted, the Contractor shall submit to District a written Time Impact Evaluation ("TIE") in accordance with Article 1.12 of this Section. The TIE shall be based on the most current update of the Initial CPM Schedule.

1.07 ORIGINAL CPM SCHEDULE

- A. Submit a detailed proposed Original CPM Schedule presenting an orderly and realistic plan for completion of the Work in conformance with requirements as specified herein.
- B. Progress Schedule shall include or comply with following requirements:

- (1) Time scaled, cost and resource (labor and major equipment) loaded CPM schedule.
- (2) No activity on schedule shall have duration longer than fifteen (15) work days, with exception of submittal, approval, fabrication and procurement activities, unless otherwise approved by District.
 - (a) Activity durations shall be total number of actual work days required to perform that activity.
- (3) The start and completion dates of all items of Work, their major components, and milestone completion dates, if any.
- (4) District -furnished materials and equipment, if any, identified as separate activities.
- (5) Activities for maintaining Project Record Documents.
- (6) Dependencies (or relationships) between activities.
- (7) Processing/approval of submittals and shop drawings for all material and equipment required per the Contract. Activities that are dependent on submittal acceptance or material delivery shall not be scheduled to start earlier than expected acceptance or delivery dates.
 - (a) Include time for submittals, re-submittals and reviews by District. Coordinate with accepted schedule for submission of Shop Drawings, samples, and other submittals.
 - (b) Contractor shall be responsible for all impacts resulting from re-submittal of Shop Drawings and submittals.
- (8) Procurement of major equipment, through receipt and inspection at jobsite, identified as separate activity.
 - (a) Include time for fabrication and delivery of manufactured products for the Work.
 - (b) Show dependencies between procurement and construction.
- (9) Activity description; what Work is to be accomplished and where.
- (10) The total cost of performing each activity shall be total of labor, material, and equipment, excluding overhead and profit of Contractor. Overhead and profit of the General Contractor shall be shown as a separate activity in the schedule. Sum of cost for all activities shall equal total Contract value.

- (11) Resources required (labor and major equipment) to perform each activity.
- (12) Responsibility code for each activity corresponding to Contractor or Subcontractor responsible for performing the Work.
- (13) Identify the activities which constitute the controlling operations or critical path. No more than twenty-five (25%) of the activities shall be critical or near critical. Near critical is defined as float in the range of one (1) to (10) days.
- (14) Twenty (20) workdays for developing punch list(s), completion of punch-list items, and final clean up for the Work or any designated portion thereof. No other activities shall be scheduled during this period.
- (15) Interface with the work of other contractors, District, and agencies such as, but not limited to, utility companies.
- (16) Show detailed Subcontractor Work activities. In addition, furnish copies of Subcontractor schedules upon which CPM was built.
 - (a) Also furnish for each Subcontractor, as determined by District, submitted on Subcontractor letterhead, a statement certifying that Subcontractor concurs with Contractor's Original CPM Schedule and that Subcontractor's related schedules have been incorporated, including activity duration, cost and resource loading.
 - (b) Subcontractor schedules shall be independently derived and not a copy of Contractor's schedule.
 - (c) In addition to Contractor's schedule and resource loading, obtain from electrical, mechanical, and plumbing Subcontractors, and other Subcontractors as required by District, productivity calculations common to their trades, such as units per person day, feet of pipe per day per person, feet of wiring per day per person, and similar information.
 - (d) Furnish schedule for Contractor/Subcontractor CPM schedule meetings which shall be held prior to submission of Original CPM schedule to District. District shall be permitted to attend scheduled meetings as an observer.
- (17) Activity durations shall be in Work days.
- (18) Submit with the schedule a list of anticipated non-Work days, such as weekends and holidays. The Progress Schedule shall exclude in its Work day calendar all non-Work days on which Contractor anticipates critical Work will not be performed.

- C. Original CPM Schedule Review Meeting: Contractor shall, within sixty (60) days from the Notice to Proceed date, meet with District to review the Original CPM Schedule submittal.
 - (1) Contractor shall have its Project Manager, Project Superintendent, Project Scheduler, and key Subcontractor representatives, as required by District, in attendance. The meeting will take place over a continuous one (1) day period.
 - (2) District's review will be limited to submittal's conformance to Contract requirements including, but not limited to, coordination requirements. However, review may also include:
 - (a) Clarifications of Contract Requirements.
 - (b) Directions to include activities and information missing from submittal.
 - (c) Requests to Contractor to clarify its schedule.
 - (3) Within five (5) days of the Schedule Review Meeting, Contractor shall respond in writing to all questions and comments expressed by District at the Meeting.

1.08 ADJUSTMENTS TO CPM SCHEDULE

- A. Adjustments to Original CPM Schedule: Contractor shall have adjusted the Original CPM Schedule submittal to address all review comments from original CPM Schedule review meeting and resubmit network diagrams and reports for District's review.
 - (1) District, within ten (10) days from date that Contractor submitted the revised schedule, will either:
 - (a) Accept schedule and cost and resource loaded activities as submitted, or
 - (b) Advise Contractor in writing to review any part or parts of schedule which either do not meet Contract requirements or are unsatisfactory for District to monitor Project's progress, resources, and status or evaluate monthly payment request by Contractor.
 - (2) District may accept schedule with conditions that the first monthly CPM Schedule update be revised to correct deficiencies identified.
 - (3) When schedule is accepted, it shall be considered the "Original CPM Schedule" which will then be immediately updated to reflect the current status of the work.

- (4) District reserves right to require Contractor to adjust, add to, or clarify any portion of schedule which may later be discovered to be insufficient for monitoring of Work or approval of partial payment requests. No additional compensation will be provided for such adjustments, additions, or clarifications.
- B. Acceptance of Contractor's schedule by District will be based solely upon schedule's compliance with Contract requirements.
 - (1) By way of Contractor assigning activity durations and proposing sequence of Work, Contractor agrees to utilize sufficient and necessary management and other resources to perform work in accordance with the schedule.
 - (2) Upon submittal of schedule update, updated schedule shall be considered "current" CPM Schedule.
 - (3) Submission of Contractor's schedule to District shall not relieve Contractor of total responsibility for scheduling, sequencing, and pursuing Work to comply with requirements of Contract Documents, including adverse effects such as delays resulting from ill-timed Work.
- C. Submittal of Original CPM Schedule, and subsequent schedule updates, shall be understood to be Contractor's representation that the Schedule meets requirements of Contract Documents and that Work shall be executed in sequence indicated on the schedule.
- D. Contractor shall distribute Original CPM Schedule to Subcontractors for review and written acceptance, which shall be noted on Subcontractors' letterheads to Contractor and transmitted to District for the record.

1.09 MONTHLY CPM SCHEDULE UPDATE SUBMITTALS

- A. Following acceptance of Contractor's Original CPM Schedule, Contractor shall monitor progress of Work and adjust schedule each month to reflect actual progress and any anticipated changes to planned activities.
 - (1) Each schedule update submitted shall be complete, including all information requested for the Original CPM Schedule submittal.
 - (2) Each update shall continue to show all Work activities including those already completed. These completed activities shall accurately reflect "as built" information by indicating when activities were actually started and completed.
- B. A meeting will be held on approximately the twenty-fifth (25th) of each month to review the schedule update submittal and progress payment application.

- (1) At this meeting, at a minimum, the following items will be reviewed: Percent (%) complete of each activity; Time Impact Evaluations for Change Orders and Time Extension Request; actual and anticipated activity sequence changes; actual and anticipated duration changes; and actual and anticipated Contractor delays.
 - (2) These meetings are considered a critical component of overall monthly schedule update submittal and Contractor shall have appropriate personnel attend. At a minimum, these meetings shall be attended by Contractor's General Superintendent and Scheduler.
 - (3) Contractor shall plan on the meeting taking no less than four (4) hours.
- C. Within five (5) working days after monthly schedule update meeting, Contractor shall submit the updated CPM Schedule update.
- D. Within five (5) work days of receipt of above noted revised submittals, District will either accept or reject monthly schedule update submittal.
- (1) If accepted, percent (%) complete shown in monthly update will be basis for Application for Payment by the Contractor. The schedule update shall be submitted as part of the Contractor's Application for Payment.
 - (2) If rejected, update shall be corrected and resubmitted by Contractor before the Application for Payment is submitted.
- E. Neither updating, changing or revising of any report, curve, schedule, or narrative submitted to District by Contractor under this Contract, nor District's review or acceptance of any such report, curve, schedule or narrative shall have the effect of amending or modifying in any way the Completion Date or milestone dates or of modifying or limiting in any way Contractor's obligations under this Contract.

1.10 SCHEDULE REVISIONS

- A. Updating the Schedule to reflect actual progress shall not be considered revisions to the Schedule. Since scheduling is a dynamic process, revisions to activity durations and sequences are expected on a monthly basis.
- B. To reflect revisions to the schedule, the Contractor shall provide District with a written narrative with a full description and reasons for each Work activity revised. For revisions affecting the sequence of work, the Contractor shall provide a schedule diagram which compares the original sequence to the revised sequence of work. The Contractor shall provide the written narrative and schedule diagram for revisions two (2) working days in advance of the monthly schedule update meeting.

- C. Schedule revisions shall not be incorporated into any schedule update until the revisions have been reviewed by District. District may request further information and justification for schedule revisions and Contractor shall, within three (3) days, provide District with a complete written narrative response to District's request.
- D. If the Contractor's revision is still not accepted by District, and the Contractor disagrees with District's position, the Contractor has seven (7) calendar days from receipt of District's letter rejecting the revision to provide a written narrative providing full justification and explanation for the revision. The Contractor's failure to respond in writing within seven (7) calendar days of District's written rejection of a schedule revision shall be contractually interpreted as acceptance of District's position, and the Contractor waives its rights to subsequently dispute or file a claim regarding District's position.
- E. At District's discretion, the Contractor can be required to provide Subcontractor certifications of performance regarding proposed schedule revisions affecting said Subcontractors.

1.11 RECOVERY SCHEDULE

- A. If the Schedule Update shows a completion date twenty-one (21) calendar days beyond the Contract Completion Date, or individual milestone completion dates, the Contractor shall submit to District the proposed revisions to recover the lost time within seven (7) calendar days. As part of this submittal, the Contractor shall provide a written narrative for each revision made to recapture the lost time. If the revisions include sequence changes, the Contractor shall provide a schedule diagram comparing the original sequence to the revised sequence of work.
- B. The revisions shall not be incorporated into any schedule update until the revisions have been reviewed by District.
- C. If the Contractor's revisions are not accepted by District, District and the Contractor shall follow the procedures in paragraph 1.09.C, 1.09.D and 1.09.E above.
- D. At District's discretion, the Contractor can be required to provide Subcontractor certifications for revisions affecting said Subcontractors.

1.12 TIME IMPACTS EVALUATION ("TIE") FOR CHANGE ORDERS, AND OTHER DELAYS

- A. When Contractor is directed to proceed with changed Work, the Contractor shall prepare and submit within fourteen (14) calendar days from the Notice to Proceed a TIE which includes both a written narrative and a schedule diagram depicting how the changed Work affects other schedule activities. The schedule diagram shall show how the Contractor proposes to incorporate the changed Work in the schedule and how it impacts the current schedule-update critical path. The Contractor is also responsible for requesting time extensions based on

the TIE's impact on the critical path. The diagram must be tied to the main sequence of schedule activities to enable District to evaluate the impact of changed Work to the scheduled critical path.

- B. Contractor shall be required to comply with the requirements of Paragraph 1.09.A for all types of delays such as, but not limited to, Contractor/Subcontractor delays, adverse weather delays, strikes, procurement delays, fabrication delays, etc.
- C. Contractor shall be responsible for all costs associated with the preparation of TIEs, and the process of incorporating them into the current schedule update. The Contractor shall provide District with four (4) copies of each TIE.
- D. Once agreement has been reached on a TIE, the Contract Time will be adjusted accordingly. If agreement is not reached on a TIE, the Contract Time may be extended in an amount District allows, and the Contractor may submit a claim for additional time claimed by contractor.

1.13 TIME EXTENSIONS

- A. The Contractor is responsible for requesting time extensions for time impacts that, in the opinion of the Contractor, impact the critical path of the current schedule update. Notice of time impacts shall be given in accord with the General Conditions.
- B. Where an event for which District is responsible impacts the projected Completion Date, the Contractor shall provide a written mitigation plan, including a schedule diagram, which explains how (e.g., increase crew size, overtime, etc.) the impact can be mitigated. The Contractor shall also include a detailed cost breakdown of the labor, equipment, and material the Contractor would expend to mitigate District-caused time impact. The Contractor shall submit its mitigation plan to District within fourteen (14) calendar days from the date of discovery of the impact. The Contractor is responsible for the cost to prepare the mitigation plan.
- C. Failure to request time, provide TIE, or provide the required mitigation plan will result in Contractor waiving its right to a time extension and cost to mitigate the delay.
- D. No time will be granted under this Contract for cumulative effect of changes.
- E. District will not be obligated to consider any time extension request unless the Contractor complies with requirements of Contract Documents.
- F. Failure of the Contractor to perform in accordance with the current schedule update shall not be excused by submittal of time extension requests.

- G. If the Contractor does not submit a TIE within the required fourteen (14) calendar days for any issue, it is mutually agreed that the Contractor does not require a time extension for said issue.

1.14 SCHEDULE REPORTS

- A. Submit four (4) copies of the following reports with the Initial CPM Schedule, the Original CPM Schedule, and each monthly update.

- B. Required Reports:

- (1) Two activity listing reports: one sorted by activity number and one by total Project Float. These reports shall also include each activity's early/late and actual start and finish dates, original and remaining duration, Project Float, responsibility code, and the logic relationship of activities.
- (2) Cost report sorted by activity number including each activity's associated cost, percentage of Work accomplished, earned value- to-date, previous payments, and amount earned for current update period.
- (3) Schedule plots presenting time-scaled network diagram showing activities and their relationships with the controlling operations or critical path clearly highlighted.
- (4) Cash flow report calculated by early start, late start, and indicating actual progress. Provide an exhibit depicting this information in graphic form.
- (5) Planned versus actual resource (i.e., labor) histogram calculated by early start and late start.

- C. Other Reports

In addition to above reports, District may request, from month-to-month, any two of the following reports. Submit four (4) copies of all reports.

- (1) Activities by early start.
- (2) Activities by late start.
- (3) Activities grouped by Subcontractors or selected trades.
- (4) Activities with scheduled early start dates in a given time frame, such as fifteen (15) or thirty (30) day outlook.

- D. Furnish District with report files on compact disks containing all schedule files for each report generated.

1.15 PROJECT STATUS REPORTING

- A. In addition to submittal requirements for CPM scheduling identified in this Section, Contractor shall provide a monthly project status report (i.e., written narrative report) to be submitted in conjunction with each CPM Schedule as specified herein. Status reporting shall be in form specified below.

- B. Contractor shall prepare monthly written narrative reports of status of Project for submission to District. Written status reports shall include:
 - (1) Status of major Project components (percent (%) complete, amount of time ahead or behind schedule) and an explanation of how Project will be brought back on schedule if delays have occurred.
 - (2) Progress made on critical activities indicated on CPM Schedule.
 - (3) Explanations for any lack of work on critical path activities planned to be performed during last month.
 - (4) Explanations for any schedule changes, including changes to logic or to activity durations.
 - (5) List of critical activities scheduled to be performed next month.
 - (6) Status of major material and equipment procurement.
 - (7) Any delays encountered during reporting period.
 - (8) Contractor shall provide printed report indicating actual versus planned resource loading for each trade and each activity. This report shall be provided on weekly and monthly basis.
 - (a) Actual resource shall be accumulated in field by Contractor, and shall be as noted on Contractor's daily reports. These reports will be basis for information provided in computer-generated monthly and weekly printed reports.
 - (b) Contractor shall explain all variances and mitigation measures.
 - (9) Contractor may include any other information pertinent to status of Project. Contractor shall include additional status information requested by District at no additional cost.
 - (10) Status reports, and the information contained therein, shall not be construed as claims, notice of claims, notice of delay, or requests for changes or compensation.

1.16 WEEKLY SCHEDULE REPORT

At the Weekly Progress Meeting, the Contractor shall provide and present a time-scaled three (3) week look-ahead schedule that is based and correlated by activity number to the current schedule (i.e., Initial, Original CPM, or Schedule Update).

1.17 DAILY CONSTRUCTION REPORTS

On a daily basis, Contractor shall submit a daily activity report to District for each workday, including weekends and holidays when worked. Contractor shall develop the daily construction reports on a computer-generated database capable of sorting daily Work, manpower, and manhours by Contractor, Subcontractor, area, sub-area, and Change Order Work. Upon request of District, furnish computer disk of this data base. Obtain District's written approval of daily construction report data base format prior to implementation. Include in report:

- A. Project name and Project number.
- B. Contractor's name and address.
- C. Weather, temperature, and any unusual site conditions.
- D. Brief description and location of the day's scheduled activities and any special problems and accidents, including Work of Subcontractors. Descriptions shall be referenced to CPM scheduled activities.
- E. Worker quantities for its own Work force and for Subcontractors of any tier.
- F. Equipment, other than hand tools, utilized by Contractor and Subcontractors.

1.18 PERIODIC VERIFIED REPORTS

Contractor shall complete and verify construction reports on a form prescribed by the Division of the State Architect and file reports on the first day of February, May, August, and November during the preceding quarter year; at the completion of the Contract; at the completion of the Work; at the suspension of Work for a period of more than one (1) month; whenever the services of Contractor or any of Contractor's Subcontractors are terminated for any reason; and at any time a special verified report is required by the Division of the State Architect. Refer to section 4-336 and section 4-343 of Part 1, Title 24 of the California Code of Regulations.

PART 2 - PRODUCTS Not Used.

PART 3 - EXECUTION Not Used.

END OF DOCUMENT

DOCUMENT 01 33 00

SUBMITTALS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions, including, without limitation, Contractor's Submittals and Schedules, Drawings and Specifications;
- B. Special Conditions.

1.02 SECTION INCLUDES:

- A. Definitions:
 - (1) Shop Drawings and Product Data are as indicated in the General Conditions and include, but are not limited to, fabrication, erection, layout and setting drawings, formwork and falsework drawings, manufacturers' standard drawings, descriptive literature, catalogues, brochures, performance and test data, wiring and control diagrams. In addition, there are other drawings and descriptive data pertaining to materials, equipment, piping, duct and conduit systems, and methods of construction as may be required to show that the materials, equipment or systems and all positions conform to the requirement of the Contract Documents, including, without limitation, the Drawings.
 - (2) "Manufactured" applies to standard units usually mass-produced; "fabricated" means specifically assembled or made out of selected materials to meet design requirements. Shop Drawings shall establish the actual detail of manufactured or fabricated items, indicated proper relation to adjoining work and amplify design details of mechanical and electrical equipment in proper relation to physical spaces in the structure.
 - (3) Manufacturer's Instructions: Where any item of Work is required by the Contract Documents to be furnished, installed, or performed, at a minimum, in accordance with a specified product manufacturer's instructions, the Contractor shall procure and distribute copies of these to the District, the Architect, and all other concerned parties and shall furnish, install, or perform the work, at a minimum, in accordance with those instructions.
- B. Samples, Shop Drawings, Product Data, and other items as specified, in accordance with the following requirements:

- (1) Contractor shall submit all Shop Drawings, Product Data, and Samples to the District, the Architect, the Project Inspector, and the Construction Manager.
- (2) Contractor shall comply with all time frames herein and in the General Conditions and, in any case, shall submit required information in sufficient time to permit proper consideration and action before ordering any materials or items represented by such Shop Drawings, Product Data, and/or Samples.
- (3) Contractor shall comply with all time frames herein and in the General Conditions and, in any case, shall allow sufficient time so that no delay occurs due to required lead time in ordering or delivery of any item to the Site. Contractor shall be responsible for any delay in progress of Work due to its failure to observe these requirements.
- (4) Time for completion of Work shall not be extended on account of Contractor's failure to promptly submit Shop Drawings, Product Data, and/or Samples.
- (5) Reference numbers on Shop Drawings shall have Architectural and/or Engineering Contract Drawings reference numbers for details, sections, and "cuts" shown on Shop Drawings. These reference numbers shall be in addition to any numbering system that Contractor chooses to use or has adopted as standard.
- (6) When the magnitude or complexity of submittal material prevents a complete review within the stated time frame, Contractor shall make this submittal in increments to avoid extended delays.
- (7) Contractor shall certify on submittals for review that submittals conform to Contract requirements. In event of any variance, Contractor shall specifically state in transmittal and on Shop Drawings, portions vary and require approval of a substitute. Also certify that Contractor-furnished equipment can be installed in allocated space.
- (8) Unless specified otherwise, sampling, preparation of samples, and tests shall be in accordance with the latest standard of the American Society for Testing and Materials.
- (9) Upon demand by Architect or District, Contractor shall submit samples of materials and/or articles for tests or examinations and consideration before Contractor incorporates same in Work. Contractor shall be solely responsible for delays due to sample(s) not being submitted in time to allow for tests. Acceptance or rejection will be expressed in writing. Work shall be equal to approved samples in every respect. Samples that are of value after testing will remain the property of Contractor.

- C. Submittal Schedule:
- (1) Contractor shall prepare its proposed submittal schedule that is coordinated with the its proposed construction schedule and submit both to the District within ten (10) days after the date of the Notice to Proceed. Contractor's proposed schedules shall become the Project Construction Schedule and the Project Submittal Schedule after each is approved by the District.
 - (2) Contractor is responsible for all lost time should the initial submittal be rejected, marked "revised and resubmit", etc.
 - (3) All Submittals shall be forwarded to the District by the date indicated on the approved Submittal Schedule, unless an earlier date is necessary to maintain the Construction Schedule, in which case those Submittals shall be forwarded to the District so as not to delay the Construction Schedule..

1.03 SHOP DRAWINGS:

- A. Contractor shall submit one reproducible transparency and six (6) opaque reproductions. The District will review and return the reproducible copy and one (1) opaque reproduction to Contractor.
- B. Before commencing installation of any Work, the Contractor shall submit and receive approval of all drawings, descriptive data, and material list(s) as required to accomplish Work.
- C. Review of Shop Drawings is regarded as a service to assist Contractor and in all cases original Contract Documents shall take precedence as outlined under General Conditions.
- D. No claim for extra time or payment shall be based on work shown on Shop Drawings unless the claim is (1) noted on Contractor's transmittal letter accompanying Shop Drawings and (2) Contractor has complied with all applicable provisions of the General Conditions, including, without limitation, provisions regarding changes and payment, and all required written approvals.
- E. District shall not review Shop Drawings for quantities of materials or number of items supplied.
- F. District's and/or Architect's review of Shop Drawing will be general. District and/or Architect review does not relieve Contractor of responsibility for accuracy, proper fitting, construction of Work, furnishing of materials, or Work required by Contract Documents and not indicated on Shop Drawings. Shop Drawing reviewed by District and/or Architect is not to be construed as approving departures from Contract Documents.

- G. Review of Shop Drawings and Schedules does not relieve Contractor from responsibility for any aspect of those Drawings or Schedules that is a violation of local, County, State, or Federal laws, rules, ordinances, or rules and regulations of commissions, boards, or other authorities or utilities having jurisdiction.
- H. Before submitting Shop Drawings for review, Contractor shall check Shop Drawings of its subcontractors for accuracy, and confirm that all Work contiguous with and having bearing on other work shown on Shop Drawings is accurately drawn and in conformance with Contract Documents.
- I. Submitted drawings and details must bear stamp of approval of Contractor:
 - (1) Stamp and signature shall clearly certify that Contractor has checked Shop Drawings for compliance with Drawings.
 - (2) If Contractor submits a Shop Drawing without an executed stamp of approval, or whenever it is evident (despite stamp) that Drawings have not been checked the District and/or Architect will not consider them and will return them to the Contractor for revision and resubmission. In that event, it will be deemed that Contractor has not complied with this provision and Contractor shall bear risk of all delays to same extent as if it had not submitted any Shop Drawings or details.
- J. Submission of Shop Drawings (in either original submission or when resubmitted with correction) constitutes evidence that Contractor has checked all information thereon and that it accepts and is willing to perform Work as shown.
- K. Contractor shall pay for cost of any changes in construction due to improper checking and coordination. Contractor shall be responsible for all additional costs, including coordination. Contractor shall be responsible for costs incurred by itself, the District, the Architect, the Project Inspector, the Construction Manager, any other Subcontractor or contractor, etc., due to improperly checked and/or coordination of submittals.
- L. Shop Drawings must clearly delineate the following information:
 - (1) Project name and address.
 - (2) Architect's name and project number.
 - (3) Shop Drawing title, number, date, and scale.
 - (4) Names of Contractor, Subcontractor(s) and fabricator.
 - (5) Working and erection dimensions.
 - (6) Arrangements and sectional views.

- (7) Necessary details, including complete information for making connections with other Work.
 - (8) Kinds of materials and finishes.
 - (9) Descriptive names of materials and equipment, classified item numbers, and locations at which materials or equipment are to be installed in the Work. Contractor shall use same reference identification(s) as shown on Contract Drawings.
- M. Contractor shall prepare composite drawings and installation layouts when required to solve tight field conditions.
- (1) Shop Drawings shall consist of dimensioned plans and elevations and must give complete information, particularly as to size and location of sleeves, inserts, attachments, openings, conduits, ducts, boxes, structural interferences, etc.
 - (2) Contractor shall coordinate these composite Shop Drawings and installation layouts in the field between itself and its Subcontractor(s) for proper relationship to the Work, the work of other trades, and the field conditions. The Contractor shall check and approve all submittal(s) before submitting them for final review.

1.04 PRODUCT DATA OR NON REPRODUCIBLE SUBMITTALS:

- A. Contractor shall submit manufacturer's printed literature in original form. Any fading type of reproduction will not be accepted. Contractor must submit a minimum of six (6) each, to the District. District shall return one (1) to the Contractor, who shall reproduce whatever additional copies it requires for distribution.
- B. Contractor shall submit six (6) copies of a complete list of all major items of mechanical, plumbing, and electrical equipment and materials in accordance with the approved Submittal Schedule, except as required earlier to comply with the approved Construction Schedule. Other items specified are to be submitted prior to commencing Work. Contractor shall submit items of like kind at one time in a neat and orderly manner. Partial lists will not be acceptable.
- C. Submittals shall include manufacturer's specifications, physical dimensions, and ratings of all equipment. Contractor shall furnish performance curves for all pumps and fans. Where printed literature describes items in addition to that item being submitted, submitted item shall be clearly marked on sheet and superfluous information shall be crossed out. If highlighting is used, Contractor shall mark all copies.
- D. Equipment submittals shall be complete and include space requirements, weight, electrical and mechanical requirements, performance data, and supplemental information that may be requested.

1.05 SAMPLES:

- A. Contractor shall submit for approval Samples as required and within the time frame in the Contract Documents. Materials such as concrete, mortar, etc., which require on-site testing will be obtained from Project Site.
- B. Contractor shall submit four (4) samples except where greater or lesser number is specifically required by Contract Documents including, without limitation, the Specifications.
 - (1) Samples must be of sufficient size and quality to clearly illustrate functional characteristics, with integrally related parts and attachment devices.
 - (2) Samples must show full range of texture, color, and pattern.
- C. Contractor shall make all Submittals, unless it has authorized Subcontractor(s) to submit and Contractor has notified the District in writing to this effect.
- D. Samples to be shipped prepaid or hand-delivered to the District.
- E. Contractor shall mark samples to show name of Project, name of Contractor submitting, Contract number and segment of Work where representative Sample will be used, all applicable Specifications Sections and documents, Contract Drawing Number and detail, and ASTM or FS reference, if applicable.
- F. Contractor shall not deliver any material to Site prior to receipt of District's and/or Architect's completed written review and approval. Contractor shall furnish materials equal in every respect to approved Samples and execute Work in conformance therewith.
- G. District's and/or Architect's review, acceptance, and/or approval of Sample(s) will not preclude rejections of any material upon discovery of defects in same prior to final acceptance of completed Work.
- H. After a material has been approved, no change in brand or make will be permitted.
- I. Contractor shall prepare its Submittal Schedule and submit Samples of materials requiring laboratory tests to specified laboratory for testing not less than ninety (90) days before such materials are required to be used in Work.
- J. Samples which are rejected must be resubmitted promptly after notification of rejection and be marked "Resubmitted Sample" in addition to other information required.
- K. Field Samples and Mock-Ups are to be removed by Contractor at District's direction:

- (1) Size: As Specified.
- (2) Furnish catalog numbers and similar data, as requested.

1.06 REVIEW AND RESUBMISSION REQUIREMENTS:

- A. The District will arrange for review of Sample(s), Shop Drawing(s), Product Data, and other submittal(s) by appropriate reviewer and return to Contractor as provided below within twenty-one (21) days after receipt or within twenty-one (21) days after receipt of all related information necessary for such review, whichever is later.
- B. One (1) copy of product or materials data will be returned to Contractor with the review status.
- C. Samples to be incorporated into the Work will be returned to Contractor, together with a written notice designating the Sample with the appropriate review status and indicating errors discovered on review, if any. Other Samples will not be returned, but the same notice will be given with respect thereto, and that notice shall be considered a return of the Sample.
- D. Contractor shall revise and resubmit any Sample(s), Shop Drawing(s), Product Data, and other submittal(s) as required by the reviewer. Such resubmittals will be reviewed and returned in the same manner as original Sample(s), Shop Drawing(s), Product Data, and other submittal(s), within fourteen (14) days after receipt thereof or within fourteen (14) days after receipt of all related information necessary for such review.
- E. Contractor may proceed with any of the Work covered by Sample(s), Shop Drawing(s), Product Data, and other submittal(s) upon its return if designated as no exception taken, or revise as noted, provided the Contractor proceeds in accordance with the District and/or the Architect's notes and comments.
- F. Contractor shall not begin any of the work covered by a Sample(s), Shop Drawing(s), Product Data, and other submittal(s), designated as revise and resubmit or rejected, until a revision or correction thereof has been reviewed and returned to Contractor.
- G. Sample(s), Shop Drawing(s), Product Data, and other submittal(s) designated as revise and resubmit or rejected and requiring resubmittal, shall be revised or corrected and resubmitted to the District no later than fourteen (14) days or a shorter period as required to comply with the approved Construction Schedule, after its return to Contractor.
- H. Neither the review nor the lack of review of any Sample(s), Shop Drawing(s), Product Data, and other submittal(s) shall waive any of the requirements of the Contract Documents, or relieve Contractor of any obligation thereunder.

- I. District's and/or Architect's review of Shop Drawings does not relieve the Contractor of responsibility for any errors that may exist. Contractor is responsible for the dimensions and design of adequate connections and details and for satisfactory construction of all the Work.

PART 2 – PRODUCTS Not Used.

PART 3 - EXECUTION Not Used.

END OF DOCUMENT

DOCUMENT 01 35 13.23

SITE STANDARDS

PART 1 – GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions, including without limitation, Site Access, Conditions, and Regulations;
- B. Special Conditions;
- C. Drug-Free Workplace Certification;
- D. Tobacco-Free Environment Certification;
- E. Criminal Background Investigation/Fingerprinting Certification;
- F. Temporary Facilities and Controls.

1.02 REQUIREMENTS OF THE DISTRICT:

- A. Drug-Free Schools and Safety Requirements:
 - (1) All school sites and other District Facilities have been declared "Drug-Free Zones." No drugs, alcohol and/or smoking are allowed at any time in any buildings and/or grounds on District property. No students, staff, visitors, or contractors are to use drugs on these sites.
 - (2) Smoking and the use of tobacco products by all persons is prohibited on or in District property. District property includes school buildings, school grounds, school owned vehicles and vehicles owned by others while on District property. Contractor shall be post: "Non-Smoking Area" in a highly visible location on Site. Contractor may designate a smoking area outside of District property within the public right-of-way, provided that this area remains quiet and unobtrusive to adjacent neighbors. This smoking area is to be kept clean at all times.
 - (3) Contractor shall ensure that no alcohol, firearms, weapons, or controlled substances enter or are used at the Site. Contractor shall immediately remove from the Site and terminate the employment of any employee(s) found in violation of this provision.
- B. Language: Unacceptable and/or loud language will not be tolerated, "Cat calls" or other derogatory language toward students or public will not be allowed.

- C. Disturbing the Peace (Noise and Lighting):
- (1) Contractor shall observe the noise ordinance of the Site at all times including, without limitation, all applicable local, city, and/or state laws, ordinances, and/or regulations regarding noise and allowable noise levels.
 - (2) The use of radios, etc., shall be controlled to keep all sound at a level that cannot be heard beyond the immediate area of use. District reserves the right to prohibit the use of radios at the Site, except for handheld communication radios (e.g., Nextel phones or radios).
 - (3) If portable lights are used after dark, all light must be located so as not to direct light into neighboring property.
- D. Traffic:
- (1) Driving on the Premises shall be limited to periods when students and public are not present. If driving or deliveries must be made during the school hours, two (2) or more ground guides shall lead the vehicle across the area of travel. In no case shall driving take place across playgrounds or other pedestrian paths during recess, lunch, and/or class period changes. The speed limit on-the Premises shall be five (5) miles per hour (maximum) or less if conditions require.
 - (2) All paths of travel for deliveries, including without limitation, material, equipment, and supply deliveries, shall be reviewed and approved by District in advance. Any damage will be repaired to the pre-damaged condition by the Contractor.
 - (3) District shall designate a construction entry to the Site. If Contractor requests, District determines it is required, and to the extent possible, District shall designate a staging area so as not to interfere with the normal functioning of school facilities. Location of gates and fencing shall be approved in advance with District and at Contractor's expense.
 - (4) Parking areas shall be reviewed and approved by District in advance. No parking is to occur under the drip line of trees or in areas that could otherwise be damaged.
- E. All of the above shall be observed and complied with by the Contractor and all workers on the Site. Failure to follow these directives could result in individual(s) being suspended or removed from the work force at the discretion of the District. The same rules and regulations shall apply equally to delivery personnel, inspectors, consultants, and other visitors to the Site.

PART 2 - PRODUCTS Not Used.

PART 3 - EXECUTION Not Used.

END OF DOCUMENT

DOCUMENT 01 41 00

REGULATORY REQUIREMENTS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions, including, without limitation, Obtaining of Permits and Licenses and Work to Comply with All Applicable Regulations;
- B. Special Conditions;
- C. Quality Control.

1.02 DESCRIPTION:

This section covers the general requirements for regulatory requirements pertaining to the Work and is supplementary to all other regulatory requirements mentioned or referenced elsewhere in the Contract Documents.

1.03 REQUIREMENTS OF REGULATORY AGENCIES:

- A. All statutes, ordinances, laws, rules, codes, regulations, standards, and the lawful orders of all public authorities having jurisdiction of the Work, are hereby incorporated into these Contract Documents as if repeated in full herein and are intended to be included in any reference to Code or Building Code, unless otherwise specified, including, without limitation, the references in the list below. Contractor shall make available at the Site copies of all the listed documents applicable to the Work as the District and/or Architect may request, including, without limitation, applicable portions of the California Code of Regulations ("CCR").
- B. This Project shall be governed by applicable regulations, including, without limitation, the State of California's Administrative Regulations for the Division of the State Architect-Structural Safety (DSA/SS), Chapter 4, Part 1, Title 24, CCR, and the most current version on the date the bids are opened and as it pertains to school construction including, without limitation:
 - (1) Test and testing laboratory per Section 4-335 (District shall pay for the testing laboratory.)
 - (2) Special inspections per Section 4-333(c).
 - (3) Verified reports per Section 4-365 & 4-343(c).

- (4) Duties of the Architect & Engineers shall be per Section 4-333(a) and 4-341.
- (5) Duties of the Contractor shall be per Section 4-343.
- (6) Addenda and Change Orders per Section 4-338.

Contractor shall keep and make available a copy of Part 1 and 2 of the most current version of Title 24 at the Site during construction.

- C. Items of deferred approval shall be clearly marked on the first sheet of the Architect's and/or Engineer's approved Drawings. All items later submitted for approval shall be per Title 24 requirements to the DSA.
- (1) Building Standards Administrative Code, Part 1, Title 24, CCR
 - (2) California Building Code (CBC), Part 2, Title 24, CCR; (Uniform Building code volumes 1-3 and California Amendments).
 - (3) California Electrical Code (CEC), Part 3, Title 24, CCR; (National Electrical Code and California Amendments).
 - (4) California Mechanical Code (CMC), Part 4, Title 24, CCR; (Uniform Mechanical Code and California Amendments).
 - (5) California Plumbing Code (CPC), Part 5, Title 24, CCR; (Uniform Plumbing Code and California Amendments).
 - (6) California Fire Code (CFC), Part 9, Title 24, CCR; (Fire Plumbing Code and California Amendments).
 - (7) California Referenced Standards Code, Part 12, Title 24, CCR.
 - (8) State Fire Marshal Regulations, Public Safety, Title 19, CCR.
 - (9) Partial List of Applicable NFPA Standards:
 - (a) NFPA 13 - Automatic Sprinkler System.
 - (b) NFPA 14 - Standpipes Systems.
 - (c) NFPA 17A - Wet Chemical System
 - (d) NFPA 24 - Private Fire Mains.
 - (e) (California Amended) NFPA 72 - National Fire Alarm Codes.
 - (f) NFPA 253 - Critical Radiant Flux of Floor Covering System.
 - (g) NFPA 2001 - Clean Agent Fire Extinguishing Systems.

(10) California Division of the State Architect interpretation of Regulations.

PART 2 – PRODUCTS Not Used.

PART 3 – EXECUTION Not Used.

END OF DOCUMENT

DOCUMENT 01 42 13

ABBREVIATIONS AND ACRONYMS**PART 1 – GENERAL****1.01 RELATED DOCUMENTS AND PROVISIONS:**

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions including without limitation, Definitions;
- B. Special Conditions.

1.02 DOCUMENT INCLUDES:

- A. Abbreviations used throughout the Contract Documents.
- B. Reference to a technical society, organization, or body is by abbreviation, as follows:

1.	AA	Aluminum Association
2.	AAMA	Architectural Aluminum Manufacturers Association
3.	AASHTO	American Association of State Highway and Transportation Officials
4.	ABPA	Acoustical and Board Products Association
5.	ACI	American Concrete Institute
6.	AGA	American Gas Association
7.	AGC	Associated General Contractors
8.	AHC	Architectural Hardware Consultant
9.	AI	Asphalt Institute
10.	AIA	American Institute of Architects
11.	AIEE	American Institute of Electrical Engineers
12.	AISC	American Institute of Steel Construction
13.	AISI	American Iron and Steel Institute
14.	AMCA	Air Moving and Conditioning Association
15.	ANSI	American National Standards Institute
16.	APA	American Plywood Association
17.	ARI	Air Conditioning and Refrigeration Institute
18.	ASHRAE	American Society of Heating, Refrigeration and Air Conditioning Engineers
19.	ASME	American Society of Mechanical Engineers
20.	ASSE	American Society of Structural Engineers
21.	ASTM	American Society of Testing and Materials
22.	AWPB	American Wood Preservers Bureau
23.	AWPI	American Wood preservers Institute
24.	AWS	American Welding Society
25.	AWSC	American Welding Society Code

26.	AWI	Architectural Woodwork Institute
27.	AWWA	American Water Works Association
28.	BIA	Brick Institute of America
29.	CCR	California Code of Regulations
30.	CLFMI	Chain Link Fence Manufacturers Institute
31.	CMG	California Masonry Guild
32.	CRA	California Redwood Association
33.	CRSI	Concrete Reinforcing Steel Institute
34.	CS	Commercial Standards
35.	CSI	Construction Specifications Institute
36.	CTI	Cooling Tower Institute
37.	FGMA	Flat Glass Manufacturer's Association
38.	FIA	Factory Insurance Association
39.	FM	Factory Mutual
40.	FS	Federal Specification
41.	FTI	Facing Title Institute
42.	GA	Gypsum Association
43.	ICC	International Code Council
44.	IEEE	Institute of Electrical and Electronic Engineers
45.	IES	Illumination Engineering Society
46.	LIA	Lead Industries Association
47.	MIA	Marble Institute of America
48.	MLMA	Metal Lath Manufacturers Association
49.	MS	Military Specifications
50.	NAAMM	National Association of Architectural Metal Manufacturers
51.	NBHA	National Builders Hardware Association
52.	NBFU	National Board of Fire Underwriters
53.	NBS	National Bureau of Standards
54.	NCMA	National Concrete Masonry Association
55.	NEC	National Electrical Code
56.	NEMA	National Electrical Manufacturers Association
57.	NFPA	National Fire Protection Association/National Forest Products Association
58.	NMWIA	National Mineral Wool Insulation Association
59.	NTMA	National Terrazzo and Mosaic Association
60.	NWMA	National Woodwork Manufacturer's Association
61.	ORS	Office of Regulatory Services (California)
62.	OSHA	Occupational Safety and Health Act
63.	PCI	Precast Concrete Institute
64.	PCA	Portland Cement Association
65.	PDCA	Painting and Decorating Contractors of America
66.	PDI	Plumbing Drainage Institute
67.	PEI	Porcelain Enamel Institute
68.	PG&E	Pacific Gas & Electric Company
69.	PS	Product Standards
70.	SDI	Steel Door Institute; Steel Deck Institute
71.	SJI	Steel Joist Institute
72.	SSPC	Steel Structures Painting Council
73.	TCA	Tile Council of America

74.	TPI	Truss Plate Institute
75.	UBC	Uniform Building Code
76.	UL	Underwriters Laboratories Code
77.	UMC	Uniform Mechanical Code
78.	USDA	United States Department of Agriculture
79.	VI	Vermiculite Institute
80.	WCLA	West Coast Lumberman's Association
81.	WCLB	West Coast Lumber Bureau
82.	WEUSER	Western Electric Utilities Service Engineering Requirements
83.	WIC	Woodwork Institute of California
84.	WPOA	Western Plumbing Officials Association

PART 2 - PRODUCTS Not Used.

PART 3 - EXECUTION Not Used.

END OF DOCUMENT

DOCUMENT 01 42 16

DEFINITIONS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS AND PROVISION

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions including without limitation, Definitions;
- B. Special Conditions.

1.02 QUALITY ASSURANCE:

- A. For products or workmanship specified by association, trade, or Federal Standards, Contractor shall comply with requirements of the standard, except when more rigid requirements are specified in the Contract Documents, or are required by applicable codes.
- B. Contractor shall conform to current reference standard publication date in effect on the date of bid opening.
- C. Contractor shall obtain copies of standards unless specifically required not to by the Contract Documents.
- D. Contractor shall maintain a copy of all standards at jobsite during submittals, planning, and progress of the specific Work, until final completion, unless specifically required not to by the Contract Documents.
- E. Should specified reference standards conflict with Contract Documents, Contractor shall request clarification from the District and./or the Architect before proceeding.
- F. The contractual relationship of the parties to the Contract shall not be altered from the contractual relationship as indicated in the Contract Documents by mention or inference otherwise in any referenced document.
- G. Governing Codes shall be as shown in the Contract Documents including, without limitation, the Specifications.

END OF DOCUMENT

DOCUMENT 01 42 19

REFERENCES**PART 1 - GENERAL****1.01 SCHEDULE OF REFERENCES:**

The following information is intended only for the general assistance of the Contractor, and the District does not represent that all of the information is current. It is the Contractor's responsibility to verify the correct information for each of the entities listed.

AA	Aluminum Association 1525 Wilson Blvd., Suite 600 Arlington, VA 22209 www.aluminum.org	703/358-2960
AABC	Associated Air Balance Council 1518 K Street, NW, Suite 503 Washington, DC 20005 www.aabchq.com	202/737-0202
AAMA	American Architectural Manufacturers Association 1827 Walden Office Sq., Suite 550 Schaumburg, IL 60173-4268 www.aamanet.org	847/303-5664
AASHTO	American Association of State Highway and Transportation Officials 444 N Capitol St. NW - Suite 249 Washington, DC 20001 www.transportation.org	202/624-5800
AATCC	American Association of Textile Chemists and Colorists P.O. Box 12215 One Davis Drive Research Triangle Park, NC 27709 2215 www.aatcc.org	919/549-8141
ACA	American Coatings Association 1500 Rhode Island Ave., NW Washington DC, 20005 www.paint.org	202/462-6272
ACI	American Concrete Institute 38800 Country Club Dr. Farmington Hills, MI 48331-3439 www.aci-int.org	248/848-3700
ACPA	American Concrete Pipe Association 8445 Freeport Parkway, Suite 350 Irving, TX 75063-2595	972/506-7216

	www.concrete-pipe.org	
ADC	Air Diffusion Council 1901 N. Roselle Road, Suite 800 Schaumburg, Illinois 60195 www.flexibleduct.org	847/706-6750
AF&PA	American Forest and Paper Association 1111 Nineteenth Street, NW, Suite 800 Washington, DC 20036 www.afandpa.org	202/463-2700
AGA	American Gas Association 400 North Capitol Street, NW Washington, DC 20001 www.aga.org	202/824-7000
AGC	Associate General Contractors of America 2300 Wilson Blvd., Suite 400 Arlington, VA 22201 www.agc.org	703/548-3118
AHA	American Hardboard Association 1210 West Northwest Highway Palatine, IL 60067 domensino.com/AHA/default.htm	847/934-8800
AI	Asphalt Institute 2696 Research Park Drive Lexington, KY 40511-8480 www.asphaltinstitute.org	859/288-4960
AIA	The American Institute of Architects 1735 New York Ave., NW Washington, DC 20006-5292 www.aia.org	202/626-7300
AISC	American Institute of Steel Construction One East Wacker Drive Suite 700 Chicago, IL 60601-1802 www.aisc.org	312.670.2400
AIA	American Insurance Association (formerly the National Board of Fire Underwriters) 2101 L Street, NW, Suite 400 Washington, DC 20037 www.aiadc.org	202/828-7100
AISI	American Iron and Steel Institute 25 Massachusetts Ave., NW, Suite 800 Washington, DC 20001 www.steel.org	202/452.7100
AITC	American Institute of Timber Construction	303/792.9559

	7012 S. Revere Parkway Suite 140 Centennial, CO 80112 www.aitc-glulam.org	
ALI	Associated Laboratories, Inc. P.O. Box 152837 Dallas, TX 75315 www.assoc-labs.com	214/565-0593
ALSC	American Lumber Standards Committee, Inc. P.O. Box 210 Germantown, MD 20875 www.alsc.org	301/972-1700
AMCA	Air Movement and Control Association International, Inc. 30 W. University Drive Arlington Heights, IL 60004 www.amca.org	847/394-0150
ANLA	American Nursery & Landscape Association 1200 G Street NW, Suite 800 Washington, DC 20005 www.anla.org	202/789-2900
ANSI	American National Standards Institute 1899 L Street, NW, 11th Floor Washington, DC, 20036 www.ansi.org	202/293.8020
APA	APA-The Engineered Wood Association 7011 S. 19th Street Tacoma, WA 98466-5333 www.apawood.org	253/565-6600
APA	Architectural Precast Association 6710 Winkler Road, Suite 8 Fort Myers, Florida 33919 www.archprecast.org	239/454-6989
ARI	Air Conditioning and Refrigeration Institute 4100 N. Fairfax Drive, Suite 200 Arlington, VA 22203 www.lightindustries.com/ARI	703/524-8800
ARMA	Asphalt Roofing Manufacturers Association Public Information Department 750 National Press Building 529 14th Street, NW Washington, DC 20045 www.asphaltroofing.org	202/591-2450
ASA	The Acoustical Society of America ASA Office Manager	516/576-2360

	Suite 1NO1 2 Huntington Quadrangle Melville, NY 11747-4502 http://asa.aip.org	
ASCE	American Society of Civil Engineers 1801 Alexander Bell Drive Reston, VA 20191 www.asce.org	800/548-2723 703/295-6300
ASHRAE	American Society of Heating, Refrigerating and Air Conditioning Engineers 1791 Tullie Circle, NE Atlanta, GA 30329-2305 www.ashrae.org	800/527-4723 404/636-8400
ASLA	American Society of Landscape Architects 636 Eye Street, NW Washington, DC 20001-3736 www.asla.org	202/898-2444
ASME	American Society of Mechanical Engineers Three Park Avenue New York, NY 10016-5990 www.asme.org	800/434-2763
ASPE	American Society of Plumbing Engineers 2980 S River Rd. Des Plaines, IL 60018 http://aspe.org	847/296-0002
ASQ	American Society for Quality P.O. Box 3005 Milwaukee, WI 53201-3005 or 600 North Plankinton Avenue Milwaukee, WI 53203 http://asq.org	800/248-1946 414/272-8575
ASSE	American Society of Sanitary Engineering 901 Canterbury, Suite A Westlake, Ohio 44145 www.asse-plumbing.org	440/835-3040
ASTM	ASTM International 100 Barr Harbor Drive PO Box C700 West Conshohocken, PA, 19428-2959 www.astm.org	610/832-9500
AWCI	Association of the Wall and Ceiling Industry 513 West Broad Street, Suite 210 Falls Church, VA 22046 www.awci.org	703/538-1600

AWPA	American Wood Protection Association P.O. Box 361784 Birmingham, AL 35236-1784 www.awpa.com	205/733-4077
AWPI	American Wood Preservers Institute 2750 Prosperity Ave. Suite 550 Fairfax, VA 22031-4312 www.arcat.com	800/356-AWPI 703/204-0500
AWS	American Welding Society 8669 Doral Boulevard, Suite 130 Doral, Florida 33166 www.aws.org	800/443-9353 305/443-9353
AWI	Architectural Woodwork Institute 46179 Westlake Drive, Suite 120 Potomac Falls, VA 20165-5874 www.awinet.org	571/323-3636
AWWA	American Water Works Association 6666 West Quincy Avenue Denver, CO 80235 www.awwa.org	800/926-7337 303/794 7711
BHMA	Builders Hardware Manufacturers Association 355 Lexington Avenue, 15th floor New York, NY 10017 www.buildershardware.com	212/297-2122
BIA	The Brick Industry Association 1850 Centennial Park Drive, Suite 301 Reston, VA 20191 www.gobrick.com	703/620-0010
CGA	Compressed Gas Association 14501 George Carter Way, Suite 103 Chantilly VA 20151-2923 www.cganet.com	703/788-2700
CISCA	Ceilings & Interior Systems Construction Association 1010 Jorie Blvd, Suite 30 Oak Brook, IL 60523 www.cisca.org	630/584-1919
CISPI	Cast Iron Soil Pipe Institute 1064 Delaware Avenue SE Atlanta, GA 30316 www.cispi.org	404/622-0073
CLFMI	Chain Link Fence Manufacturers Institute	410/290-6267

	10015 Old Columbia Road, Suite B-215 Columbia, MD 21046 www.associationsites.com/main-pub.cfm?usr=clfma	
CPA	Composite Panel Association 19465 Deerfield Avenue, Suite 306 Leesburg, VA 20176 www.compositepanel.org	703/724-1128
CPSC	Consumer Product Safety Commission 4330 East West Highway Bethesda, MD 20814 www.cpsc.gov	301/504-7923 800/638-2772
CRA	California Redwood Association 405 Enfrente Drive, Suite 200 Novato, CA 94949 www.calredwood.org	415/382-0662
CRI	Carpet and Rug Institute P.O. Box 2048 Dalton, Georgia 30722-2048 www.carpet-rug.org	706/278-3176
CRSI	Concrete Reinforcing Steel Institute 933 N. Plum Grove Road Schaumburg, IL 60173 4758 www.crsi.org	847/517-1200
CSI	The Construction Specifications Institute 110 South Union Street, Suite 100 Alexandria VA 22314 www.csinet.org	800/689-2900
CTIOA	Ceramic Tile Institute of America 12061 Jefferson Blvd. Culver City, CA 90230-6219 www.ctioa.org	310/574-7800
DHI	Door and Hardware Institute (formerly National Builders Hardware Association) 14150 Newbrook Dr. Chantilly, VA 20151 www.dhi.org	703/222-2010
DIPRA	Ductile Iron Pipe Research Association 2000 2nd Avenue, South Suite 429 Birmingham, AL 35233 www.dipra.org	205/402-8700
DOC	U.S. Department of Commerce 1401 Constitution Ave., NW Washington, D.C. 20230	202/482-2000

	www.commerce.gov	
DOT	U.S. Department of Transportation 1200 New Jersey Avenue, SE Washington, DC 20590 www.dot.gov	855/368-4200
EJMA	Expansion Joint Manufacturers Association, Inc. 25 North Broadway Tarrytown, NY 10591 www.ejma.org	914/332-0040
EPA	Environmental Protection Agency Ariel Rios Building 1200 Pennsylvania Avenue, N.W. Washington, DC 20460 www.epa.gov	202/272-0167
FCICA	Floor Covering Installation Contractors Association 7439 Millwood Drive West Bloomfield, MI 48322 www.fcica.com	248/661-5015 877/TO-FCICA
FM Global	Factory Mutual Insurance Company Mary Breighner Global Practice Leader Education, Public Entities, Health Care FM Global 9 Woodcrest Court Cincinnati, OH 45246 www.fmglobal.com	513/742-9516
FS	General Services Administration (GSA) Index of Federal Specifications, Standards and Commercial Item Descriptions 470 East L'Enfant Plaza, SW, Suite 8100 Washington, DC 20407 www.gsa.gov	202/619-8925
GA	The Gypsum Association 6525 Belcrest Road, Suite 480 Hyattsville, MD 20782 www.gypsum.org	301/277-8686
GANA	Glass Association of North America 800 SW Jackson St., Suite 1500 Topeka, KS 66612-1200 www.glasswebsite.com	785/271-0208
HMA	Hardwood Manufacturers Association 665 Rodi Road, Suite 305 Pittsburgh, PA 15235 http://hmamembers.org	412/244-0440

HPVA	Hardwood Plywood & Veneer Association 1825 Michael Faraday Drive Reston, Virginia 20190 www.hpva.org	703/435-2900
IAPMO	International Association of Plumbing and Mechanical Officials (formerly the Western Plumbing Officials Association) 4755 E. Philadelphia St. Ontario, CA 91761 www.iapmo.org	909/472-4100
ICC	International Code Council 500 New Jersey Avenue, NW, 6th Floor Washington, DC 20001 www.iccsafe.org	888/422-7233
IEEE	Institute of Electrical and Electronics Engineers 3 Park Avenue, 17th Floor New York, NY 10016-5997 www.ieee.org	212/419-7900
IES	Illuminating Engineering Society 120 Wall Street, Floor 17 New York, NY 10005-4001 www.ies.org	212/248-5000
ITRK	Intertek Testing Services 3933 US Route 11 Cortland, NY 13045 www.intertek.com	607/753-6711
MCAA	Mechanical Contractors Association of America 1385 Piccard Drive Rockville, MD 20850 www.mcaa.org	301/869-5800
MIA	Marble Institute of America 28901 Clemens Rd, Ste 100 Cleveland, OH 44145 www.marble-institute.com	440/250-9222
MMPA (formerly WMMPA)	Moulding & Millwork Producers Association (formerly Wood Moulding & Millwork Producers Association) 507 First Street Woodland, CA 95695 www.wmmpa.com	530/661-9591 800/550-7889

MSS	Manufacturers Standardization Society (MSS) of the Valve and Fittings Industry 127 Park Street, NE Vienna, VA 22180-4602 http://mss-hq.org	703/281-6613
NAAMM	National Association of Architectural Metal Manufacturers 800 Roosevelt Rd. Bldg. C, Suite 312 Glen Ellyn, IL 60137 www.naamm.org	630/942-6591
NAIMA	North American Insulation Manufacturers Association 44 Canal Center Plaza, Suite 310 Alexandria, VA 22314 www.naima.org	703/684-0084
NAPA	National Asphalt Pavement Association 5100 Forbes Blvd. Lanham, MD USA 20706-4407 www.asphaltpavement.org	888/468-6499 301/731-4748
NCSPA	National Corrugated Steel Pipe Association 14070 Proton Road, Suite 100 LB9 Dallas, TX 75244 www.ncspa.org	972/850-1907
NCMA	National Concrete Masonry Association 13750 Sunrise Valley Drive Herndon, VA 20171-4662 www.ncma.org	703/713-1900
NEBB	National Environmental Balancing Bureau 8575 Grovemont Circle Gaithersburg, MD 20877 www.nebb.org	301/977-3698
NECA	National Electrical Contractors Association 3 Bethesda Metro Center, Suite 1100 Bethesda, MD 20814 www.necanet.org	301/657-3110
	National Electrical Manufacturers Association 1300 North 17th Street, Suite 1752 Rosslyn, Virginia 22209 www.nema.org	703/841-3200

NEII	National Elevator Industry, Inc. 1677 County Route 64 P.O. Box 838 Salem, New York 12865-0838 www.neii.org	518/854-3100
NFPA	National Fire Protection Association 1 Batterymarch Park Quincy, Massachusetts USA 02169-7471 www.nfpa.org	617/770-3000
NHLA	National Hardwood Lumber Association PO Box 34518 Memphis, TN 38184 www.nhla.com	901/377-1818
NIA	National Insulation Association 12100 Sunset Hills Road, Suite 330 Reston, VA 20190 www.insulation.org	703/464-6422
NRCA	National Roofing Contractors Association 10255 W. Higgins Road, Suite 600 Rosemont, IL 60018-5607 www.nrca.net	847/299-9070
NSF	NSF International P.O. Box 130140 789 N. Dixboro Road Ann Arbor, MI 48113-0140, USA www.nsf.org	800/673-6275 734/769-8010
NTMA	National Terrazzo and Mosaic Association PO Box 2605 Fredericksburg, TX 78624 www.ntma.com	800/323-9736
OSHA	Occupational Safety and Health Act U.S. Department of Labor Occupational Safety & Health Administration 200 Constitution Ave., NW Washington, D.C. 20210 www.osha.gov	800/321-OSHA (6742)
PCA	Portland Cement Association 5420 Old Orchard Road Skokie, IL 60077 or 500 New Jersey Ave., N.W. 7 th Floor Washington, D.C. 20001 www.cement.org	847/966-6200 202/408-9494
PCI	Precast/Prestressed Concrete Institute	312/786-0300

	200 W. Adams St. #2100 Chicago, IL 60606 www.pci.org	
PDCA	Painting and Decorating Contractors of America 2316 Millpark Drive, Ste 220 Maryland Heights, MO 63043 www.pdca.com	800/332-PDCA (7322) 314/514-7322
PDI	Plumbing & Drainage Institute 800 Turnpike Street, Suite 300 North Andover, MA 01845 http://pdionline.org	978/557-0720 800/589-8956
PEI	Porcelain Enamel Institute, Inc. P.O. Box 920220 Norcross, GA 30010 www.porcelainenamel.com	770/676-9366
PG&E	Pacific Gas & Electric Company www.pge.com	800/743-5000
PLANET	Professional Landcare Network 950 Herndon Parkway, Suite 450 Herndon, Virginia 20170 www.landcarenetwork.org	703/736-9666 800/395-2522 703/736-9668
RFCI	Resilient Floor Covering Institute 115 Broad Street, Suite 201 La Grange GA 30240 www.rfci.com	706/882-3833
RIS	Redwood Inspection Service 818 Grayson Road, Suite 201 Pleasant Hill, CA 94523 www.redwoodinspection.com	925/935-1499
SDI	Steel Deck Institute P.O. Box 25 Fox River Grove, IL 60021 www.sdi.org	847/458-4647
SDI	Steel Door Institute 30200 Detroit Road Westlake, Ohio 44145 www.steeldoor.org	440/899-0010
SJI	Steel Joist Institute 234 W. Cheves Street Florence, SC 29501 http://steeljoist.org	843/407-4091
SMA	Stucco Manufacturers Association	949/387.7611

	500 East Yale Loop Irvine, CA 92614 www.stuccomfgassoc.com	
SMACNA	Sheet Metal and Air Conditioning Contractors' National Association 4201 Lafayette Center Drive Chantilly, Virginia 20151-1219 www.smacna.org	703/803-2980
SPI	SPI: The Plastics Industry Trade Association, Inc. 1667 K St., NW, Suite 1000 Washington, DC 20006 www.plasticsindustry.org	202/974-5200
SSPC	Society for Protective Coatings (formerly the Steel Structures Painting Council) 40 24th St 6th Fl Pittsburgh, PA 15222 www.sspc.org	412/281-2331 877/281-7772
TCA	The Tile Council of North America 100 Clemson Research Blvd. Anderson, SC 29625 www.tcnatile.com	864/646-8453
TPI	Truss Plate Institute 218 North Lee Street, Suite 312 Alexandria, VA 22314 www.tpinst.org	703/683-1010
TPI	Turfgrass Producers International 2 East Main Street East Dundee, IL 60118 www.turfgrassod.org	800/405-8873 847/649-5555
TCIA	Tree Care Industry Association (formerly the National Arborist Association) 136 Harvey Road, Suite 101 Londonderry, NH 03053 www.tcia.org	800/733-2622
TVI	The Vermiculite Institute c/o The Schundler Company 150 Whitman Avenue Edison, NJ. 08817 www.vermiculiteinstitute.org	732/287-2244
UL	Underwriters Laboratories Inc. 333 Pfingsten Road Northbrook, IL 60062-2096 www.ul.com	847/272-8800 877/854-3577
UNI	Uni-Bell PVC Pipe Association	972/243-3902

	2711 LBJ Freeway, Suite 1000 Dallas, TX 75234 www.uni-bell.org	
USDA	U.S. Department of Agriculture 1400 Independence Ave., S.W. Washington, DC 20250 www.usda.gov	202/720-2791
WA	Wallcoverings Association 401 North Michigan Avenue Suite 2200 Chicago, IL 60611 www.wallcoverings.org	312/321-5166
WCLIB	West Coast Lumber Inspection Bureau P.O. Box 23145 Portland, OR 97281 or 6980 S.W. Varns Tigard, OR 97223 www.wclib.org	503/639-0651
WCMA	Window Covering Manufacturers Association 355 Lexington Avenue 15th Floor New York, New York 10017 www.wcmanet.org	212/297-2122
WDMA	Window & Door Manufacturers Association 401 N. Michigan Avenue, Suite 2200 Chicago, IL 60611 or 2025 M Street, NW, Ste. 800 Washington, D.C. 20036-3309 www.wdma.com	312/321-6802 202/367-1157
WI	Woodwork Institute P.O. Box 980247 West Sacramento, CA 95798 www.wicnet.org	916/372-9943
WRI	Wire Reinforcement Institute 942 Main Street Hartford, CT 06103 www.wirereinforcementinstitute.org	860/240-9545
WWCA	Western Wall & Ceiling Contractors Association 1910 N. Lime St. Orange, California 92865 www.wwcca.org	714/221-5520
WWPA	Western Wood Products Association 522 SW Fifth Ave., Suite 500 Portland, OR 97204-2122	503/224-3930

	www2.wwpa.org	
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PART 2 - PRODUCTS Not Used.

PART 3 - EXECUTION Not Used.

END OF DOCUMENT

DOCUMENT 01 43 00

MATERIALS AND EQUIPMENT

PART 1 - GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions, including, without limitation, Purchase of Materials and Equipment;
- B. Special Conditions;
- C. Imported Materials Certification.

1.02 MATERIAL AND EQUIPMENT

- A. Only items approved by the District and/or Architect shall be used.
- B. Contractor shall submit lists of products and other product information in accordance with the Contract Documents, including, without limitation, the provisions regarding the submittals.

1.03 MATERIAL AND EQUIPMENT COLORS

- A. The District and/or Architect will provide a schedule of colors.
- B. No individual color selections will be made until after approval of all pertinent materials and equipment and after receipt of appropriate samples in accordance with the Contract Documents, including, without limitation, the provisions regarding the submittals.
- C. Contractor shall request priority in writing for any item requiring advance ordering to maintain the approved Construction Schedule.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Contractor shall deliver manufactured materials in original packages, containers, or bundles (with seals unbroken), bearing name or identification mark of manufacturer.
- B. Contractor shall deliver fabrications in as large assemblies as practicable; where specified as shop-primed or shop-finished, package or crate as required to preserve such priming or finish intact and free from abrasion.

- C. Contractor shall store materials in such a manner as necessary to properly protect them from damage. Materials or equipment damaged by handling, weather, dirt, or from any other cause will not be accepted.
- D. Materials are not be acceptable that have been warehoused for long periods of time, stored or transported in improper environment, improperly packaged, inadequately labeled, poorly protected, excessively shipped, deviated from normal distribution pattern, or reassembled.
- E. Contractor shall store material so as to cause no obstructions of sidewalks, roadways, and underground services. Contractor shall protect material and equipment furnished under Contract.
- F. Contractor may store materials on Site with prior written approval by the District, all material shall remain under Contractor's control and Contractor shall remain liable for any damage to the materials. Should the Project Site not have storage area available, the Contractor shall provide for off-site storage at a bonded warehouse and with appropriate insurance coverage at no cost to District.
- G. When any room in Project is used as a shop or storeroom, the Contractor shall be responsible for any repairs, patching, or cleaning necessary due to that use. Location of storage space shall be subject to prior written approval by District.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturers listed in various sections of Contract Documents are names of those manufacturers that are believed to be capable of supplying one or more of items specified therein.
- B. The listing of a manufacturer does not imply that every product of that manufacturer is acceptable as meeting the requirements of the Contract Documents.

2.02 FACILITIES AND EQUIPMENT

Contractor shall provide, install, maintain, and operate a complete and adequate facility for handling, the execution, disposal, and distribution of material and equipment as required for proper and timely performance of Work connected with Contract.

2.03 MATERIAL REFERENCE STANDARDS

Where material is specified solely by reference to "standard specifications" and if requested by District, Contractor shall submit for review data on actual material proposed to be incorporated into Work of Contract listing name and address of

vendor, manufacturer, or producer, and trade or brand names of those materials, and data substantiating compliance with standard specifications.

PART 3 - EXECUTION

3.01 WORKMANSHIP

- A. Where not more specifically described in any other Contract Documents, workmanship shall conform to methods and operations of best standards and accepted practices of trade or trades involved and shall include items of fabrication, construction, or installation regularly furnished or required for completion (including finish and for successful operation, as intended).
- B. Work shall be executed by tradespersons skilled in their respective lines of Work. When completed, parts shall have been durably and substantially built and present a neat appearance.

3.02 COORDINATION

- A. Contractor shall coordinate installation of Work so as to not interfere with installation of others. Adjustment or rework because of Contractor's failure to coordinate will be at no additional cost to District.
- B. Contractor shall examine in-place work for readiness, completeness, fitness to be concealed or to receive other work, and in compliance with Contract Documents. Concealing or covering Work constitutes acceptance of additional cost which will result should in-place Work be found unsuitable for receiving other Work or otherwise deviating from the requirements of the Contract Documents.

3.03 COMPLETENESS

Contractor shall provide all portions of the Work, unless clearly stated otherwise, installed complete and operational with all elements, accessories, anchorages, utility connections, etc., in manner to assure well-balanced performance, in accordance with manufacturer's recommendations and by Contract Documents. For example, electric water coolers require water, electricity, and drain services; roof drains require drain system; sinks fit within countertop, etc. Terms such as "installed complete," "operable condition," "for use intended," "connected to all utilities," "terminate with proper cap," "adequately anchored," "patch and refinish," "to match similar," should be assumed to apply in all cases, except where completeness of functional or operable condition is specifically stated as not required.

3.04 APPROVED INSTALLER OR APPLICATOR

Installation by a manufacturer's approved installer or applicator is an understood part of Specifications and only approved installer or applicator is to provide on-site Work where specified manufacturer has on-going program of approving (i.e. certifying, bonding, re-warranting) installers or applicators. Newly established

relationships between a manufacturer and an installer or applicator who does not have other approved applicator work in progress or completed is not approved for this Project.

3.05 MANUFACTURER'S RECOMMENDATIONS

All installations shall be in accordance with manufacturer's published recommendations and specific written directions of manufacturer's representative. Should Contract Documents differ from recommendations of manufacturer or directions of his representative, Contractor shall analyze differences, make recommendations to the District and the Architect in writing, and shall not proceed until interpretation or clarification has been issued by the District and/or the Architect.

END OF DOCUMENT

DOCUMENT 01 45 00

QUALITY CONTROL

PART 1 - GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions, including, without limitation, Inspector, Inspections and Tests, Uncovering of Work and Non-conforming of Work and Correction of Work;
- B. Special Conditions.

1.02 RELATED CODES:

- A. The Work is governed by requirements of Title 24, California Code of Regulations ("CCR"), and the Contractor shall keep a copy of these available at the job Site for ready reference during construction.
- B. The Division of the State Architect ("DSA") shall be notified at or before the start of construction.

1.03 OBSERVATION AND SUPERVISION:

- A. The District and Architect or their appointed representatives will review the Work and the Contractor shall provide facilities and access to the Work at all times as required to facilitate this review. Administration by the Architect and any consulting Structural Engineer will be in accordance with applicable regulations, including, without limitation, CCR, Part 1, Title 24, Section 4-341.
- B. One or more Project Inspector(s) approved by DSA and employed by or in contract with the District, referred to hereinafter as the "Project Inspector", will observe the work in accordance with CCR, Part 1, Title 24, Sections 4-333(b) and 4-342:
 - (1) The Project Inspector shall have access to the Work wherever it is in preparation or progress for ascertaining that the Work is in accordance with the Contract Documents and all applicable code sections.. The Contractor shall provide facilities and access as required and shall provide assistance for sampling or measuring materials.
 - (2) The Project Inspector will notify the District and Architect and call the attention of the Contractor to any observed failure of Work or material to conform to Contract Documents.
 - (3) The Project Inspector shall observe and monitor all testing and inspection activities required.

The Contractor shall conform with all applicable laws as indicated in the Contract Documents, including, without limitation, to CCR, Part 1, Title 24, Section 4-343. The Contractor shall supervise and direct the Work and maintain a competent superintendent on the job who is authorized to act in all matters pertaining to the Work. The Contractor's superintendent shall also inspect all materials, as they arrive, for compliance with the Contract Documents. Contractor shall reject defective Work or materials immediately upon delivery or failure of the Work or material to comply with the Contract Documents. The Contractor shall submit verified reports as indicated in the Contract Documents, including, without limitation, the Specifications and as required by Part 1, Title 24, Section 4-336.

1.04 TESTING AGENCIES:

- A. Testing agencies and tests shall be in conformance with the General Documents and the requirements of Part 1, Title 24, Section 4- 335.
- B. Testing and inspection in connection with earthwork shall be under the direction of the District's consulting soils engineer, if any, referred to hereinafter as the "Soils Engineer."
- C. Testing and inspection of construction materials and workmanship shall be performed by a qualified laboratory, referred to hereinafter as the "Testing Laboratory." The Testing Laboratory shall be under direction of an engineer registered in the State of California, shall conform to requirements of ASTM E329, and shall be employed by or in contract with the District.

1.05 TESTS AND INSPECTIONS:

- A. The Contractor shall be responsible for notifying the District and Project Inspector of all required tests and inspections. Contractor shall notify the District and Project Inspector at least seventy-two hours (72) hours in advance of performing any Work requiring testing or inspection.
- B. The Contractor shall provide access to Work to be tested and furnish incidental labor, equipment, and facilities to facilitate all inspections and tests.
- C. The District will pay for first inspections and tests required by the "CCR", and other inspections or tests that the District and/or the Architect may direct to have made, including the following principal items:
 - (1) Tests and observations for earthwork and paving.
 - (2) Tests for concrete mix designs, including tests of trial batches.
 - (3) Tests and inspections for structural steel work.
 - (4) Field tests for framing lumber moisture content.

- (5) Additional tests directed by the District that establish that materials and installation comply with the Contract Documents.
- (6) Test and observation of welding and expansion anchors.
- D. The District may at its discretion, pay and back charge the Contractor for:
 - (1) Retests or reinspections, if required, and tests or inspections required due to Contractor error or lack of required identifications of material.
 - (2) Uncovering of work in accordance with Contract Documents.
 - (3) Testing done on weekends, holidays, and overtime will be chargeable to the Contractor for the overtime portion.
 - (4) Testing done off Site.
- E. Testing and inspection reports and certifications:
 - (1) If initially received by Contractor, Contractor shall provide to each of the following a copy of the agency or laboratory report of each test or inspection or certification.
 - a. The District;
 - b. The Construction Manager, if any;
 - c. The Architect;
 - d. The Consulting Engineer, if any;
 - e. Other engineers on the Project, as appropriate;
 - f. The Project Inspector; and
 - g. The Contractor.
 - (2) When the test or inspection is one required by the CCR, a copy of the report shall also be provided to the DSA.

PART 2 - PRODUCTS

2.01 TYPE OF TEST AND INSPECTIONS:

- A. Slump Test
ASTM C 143

B. Concrete Tests

Testing agency shall test concrete used in the work per the following paragraphs:

- (1) Compressive Strength:
 - a. Minimum number of tests required: One (1) set of three (3) cylinders for each 100 cubic yards (Sec. 2604(h) 01) of concrete or major fraction thereof, placed in one (1) day. See Title 24, Section 2605(g).
 - b. Two cylinders of each set shall be tested at twenty-eight (28) days. One (1) cylinder shall be held in reserve and tested only when directed by the Architect or District.
 - c. Concrete shall test the minimum ultimate compressive strength in 28 days, as specified on the structural drawings.
 - d. In the event that the twenty-eight (28) day test falls below the minimum specified strength, the effective concrete in place shall be tested by taking cores in accordance with UBC Standard No. 26-13 and tested as required for cylinders.
 - e. In the event that the test on core specimens falls below the minimum specified strength, the concrete will be deemed defective and shall be removed and replaced upon such direction of the Architect, and in a manner acceptable to the Division of the State Architect.

C. Reinforcing, Steel

D. Structural Steel Per Title 24 and as noted:

- (1) Material: Steel per Table in Title 24, Section 2712.
- (2) Qualification of Welders (UBC Std. 27-6).
- (3) Shop fabrication (Section 2712(d). Structural steel only).
- (4) Shop and field welding (Section 2712(e)).

E. Post Installed Anchors.

F. Compaction

- (1) Subsoil
- (2) Sub-base Materials

PART 3 - EXECUTION Not Used.

END OF DOCUMENT

DOCUMENT 01 50 00

TEMPORARY FACILITIES AND CONTROLS

PART 1 – GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions;
- B. Special Conditions;
- C. Site Standards.

1.02 TEMPORARY UTILITIES:

- A. Electric Power and Lighting
 - (1) Contractor will pay for power during the course of the Work. To the extent power is available in the building(s) or on the Site, Contractor may use the District's existing utilities by making prearranged payments to the District for the utilities used by Contractor and all Subcontractors. Contractor shall be responsible for providing temporary facilities required to deliver that power service from its existing location in the building(s) or on the Site to point of intended use.
 - (2) Contractor shall verify characteristics of power available in building(s) or on the Site. Contractor shall take all actions required to make modifications where power of higher voltage or different phases of current are required. Contractor shall be fully responsible for providing that service and shall pay all costs required therefor.
 - (3) Contractor shall furnish, wire for, install, and maintain temporary electrical lights wherever it is necessary to provide illumination for the proper performance and/or observation of the Work: a minimum of 20 foot-candles for rough work and 50 foot-candles for finish work.
 - (4) Contractor shall be responsible for maintaining existing lighting levels in the project vicinity should temporary outages or service interruptions occur.

B. Heat and Ventilation

- (1) Contractor shall provide temporary heat to maintain environmental conditions to facilitate progress of the Work, to meet specified minimum conditions for the installation and curing of materials, and to protect materials and finishes from damage due to improper temperature and humidity conditions. Portable heaters shall be standard units complete with controls.
- (2) Contractor shall provide forced ventilation and dehumidification, as required, of enclosed areas for proper installation and curing of materials, to disperse humidity, and to prevent hazardous accumulations of dust, fumes, vapors, and gases.
- (3) Contractor shall pay the costs of installation, maintenance, operation, and removal of temporary heat and ventilation, including costs for fuel consumed, required for the performance of the Work.

C. Water

- (1) Contractor will pay for water during the course of the Work. To the extent water is then available in the building(s) or on the Site, Contractor may use the District's existing utilities by making prearranged payments to the District for the utilities used by Contractor and all Subcontractors. Contractor shall be responsible for providing temporary facilities required to deliver such utility service from its existing location in the building(s) or on the Site to point of intended use.
- (2) Contractor shall use backflow preventers on water lines at point of connection to District's water supply. Backflow preventers shall comply with requirements of Uniform Plumbing Code.
- (3) Contractor shall make potable water available for human consumption.

D. Sanitary Facilities

- (1) Contractor shall provide sanitary temporary facilities in no fewer numbers than required by law and such additional facilities as may be directed by the Inspector for the use of all workers. The facilities shall be maintained in a sanitary condition at all times and shall be left at the Site until removal is directed by the Inspector or Contractor completes all other work at the Site.
- (2) Use of toilet facilities in the Work under construction shall not be permitted except by consent of the Inspector and the District.

- E. Telephone Service
 - (1) Contractor shall arrange with local telephone service company for telephone service for the performance of the Work. Contractor shall, at a minimum, provide in its field office one line for telephone and one line for fax machine.
 - (2) Contractor shall pay the costs for telephone and fax lines installation, maintenance, service, and removal.
- F. Fire Protection:
 - (1) Contractor shall provide and maintain fire extinguishers and other equipment for fire protection. Such equipment shall be designated for use for fire protection only and shall comply with all requirements of the California Fire, State Fire Marshall and/or its designee.
 - (2) Where on-site welding and burning of steel is unavoidable, Contractor shall provide protection for adjacent surfaces.
- G. Trash Removal:
 - (1) Contractor shall provide trash removal on a timely basis.
- H. Temporary Facilities:
 - (1) **None**

1.03 CONSTRUCTION AIDS:

- A. Plant and Equipment:
 - (1) Contractor shall furnish, operate, and maintain a complete plant for fabricating, handling, conveying, installing, and erecting materials and equipment; and for conveyances for transporting workmen. Include elevators, hoists, debris chutes, and other equipment, tools, and appliances necessary for performance of the Work.
 - (2) Contractor shall maintain plant and equipment in safe and efficient operating condition. Damages due to defective plant and equipment, and uses made thereof, shall be repaired by Contractor at no expense to the District.
- B. None of the District's tools and equipment shall be used by Contractor for the performance of the Work.

1.04 BARRIERS AND ENCLOSURES:

- A. Contractor shall obtain the District's written permission for locations and types of temporary barriers and enclosures, including fire-rated materials proposed for use, prior to their installation.
- B. Contractor shall provide and maintain temporary enclosures to prevent public entry and to protect persons using other buildings and portions of the Site and/or Premises, the public, and workers. Contractor shall also protect the Work and existing facilities from the elements, and adjacent construction and improvements, persons, and trees and plants from damage and injury from demolition and construction operations.
- C. Contractor shall provide site access to existing facilities for persons using other buildings and portions of the Site, the public, and for deliveries and other services and activities.
- D. Tree and Plant Protection:
 - (1) Contractor shall preserve and protect existing trees and plants on the Premises that are not designated or required to be removed, and those adjacent to the Premises.
 - (2) Contractor shall provide barriers to a minimum height of 4'-0" around drip line of each tree and plant, around each group of trees and plants, as applicable, in the proximity of demolition and construction operations.
 - (3) Contractor shall not park trucks, store materials, perform Work or cross over landscaped areas. Contractor shall not dispose of paint thinners, water from cleaning, plastering or concrete operations, or other deleterious materials in landscaped areas, storm drain systems, or sewers. Plant materials damaged as a result of the performance of the Work shall, at the option of the District and at Contractor's expense, either be replaced with new plant materials equal in size to those damaged or by payment of an amount representing the value of the damaged materials as determined by the District.
 - (4) Contractor shall remove soil that has been contaminated during the performance of the Work by oil, solvents, and other materials which could be harmful to trees and plants, and replace with good soil, at Contractor's expense.
 - (5) Excavation Around Trees:
 - (a) Excavation within drip lines of trees shall be done only where absolutely necessary and with written permission from the District.
 - (b) Where trenching for utilities is required within drip lines, tunneling under and around roots shall be by hand digging and shall be approved by the District. Main lateral roots and

taproots shall not be cut. All roots 2 inches in diameter and larger shall be tunneled under and heavily wrapped with wet burlap so as to prevent scarring or excessive drying. Smaller roots that interfere with installation of new work may be cut with prior approval by the District. Roots must first be cut with a Vermeer, or equivalent, root cutter prior to any trenching.

- (c) Where excavation for new construction is required within drip line of trees, hand excavation shall be employed to minimize damage to root system. Roots shall be relocated in backfill areas wherever possible. If encountered immediately adjacent to location of new construction, roots shall be cut approximately 6 inches back from new construction.
- (d) Approved excavations shall be carefully backfilled with the excavated materials approved for backfilling. Backfill shall conform to adjacent grades without dips, sunken areas, humps, or other surface irregularities. Do not use mechanical equipment to compact backfill. Tamp carefully using hand tools, refilling and tamping until Final Acceptance as necessary to offset settlement.
- (e) Exposed roots shall not be allowed to dry out before permanent backfill is placed. Temporary earth cover shall be provided, or roots shall be wrapped with four layers of wet, untreated burlap and temporarily supported and protected from damage until permanently relocated and covered with backfill.
- (f) Accidentally broken roots should be sawed cleanly 3 inches behind ragged end.

1.05 SECURITY:

The Contractor shall be responsible for project security for materials, tools, equipment, supplies, and completed and partially completed Work.

1.06 TEMPORARY CONTROLS:

A. Noise Control

- (1) Contractor acknowledges that adjacent facilities may remain in operation during all or a portion of the Work period, and it shall take all reasonable precautions to minimize noise as required by applicable laws and the Contract Documents.
- (2) Notice of proposed noisy operations, including without limitation, operation of pneumatic demolition tools, concrete saws, and other equipment, shall be submitted to the District a minimum of forty-eight (48) hours in advance of their performance.

B. Noise and Vibration

- (1) Equipment and impact tools shall have intake and exhaust mufflers.
- (2) Contractor shall cooperate with District to minimize and/or cease the use of noisy and vibratory equipment if that equipment becomes objectionable by its longevity.

C. Dust and Dirt

- (1) Contractor shall conduct demolition and construction operations to minimize the generation of dust and dirt, and prevent dust and dirt from interfering with the progress of the Work and from accumulating in the Work and adjacent areas including, without limitation, occupied facilities.
- (2) Contractor shall periodically water exterior demolition and construction areas to minimize the generation of dust and dirt.
- (3) Contractor shall ensure that all hauling equipment and trucks carrying loads of soil and debris shall have their loads sprayed with water or covered with tarpaulins, and as otherwise required by local and state ordinance.
- (4) Contractor shall prevent dust and dirt from accumulating on walks, roadways, parking areas, and planting, and from washing into sewer and storm drain lines.

D. Water

Contractor shall not permit surface and subsurface water, and other liquids, to accumulate in or about the vicinity of the Premises. Should accumulation develop, Contractor shall control the water or other liquid, and suitably dispose of it by means of temporary pumps, piping, drainage lines, troughs, ditches, dams, or other methods.

E. Pollution

- (1) No burning of refuse, debris, or other materials shall be permitted on or in the vicinity of the Premises.
- (2) Contractor shall comply with applicable regulatory requirements and anti-pollution ordinances during the conduct of the Work including, without limitation, demolition, construction, and disposal operations.

F. Lighting

- (1) If portable lights are used after dark, all light must be located so as not to direct light into neighboring property.

1.07 JOB SIGN(S):

A. General:

- (1) Contractor shall provide and maintain a Project identification sign with the design, text, and colors designated by the District and/or the Architect; locate sign as approved by the District.
- (2) Signs other than the specified Project sign and or signs required by law, for safety, or for egress, shall not be permitted, unless otherwise approved in advance by the District.

B. Materials:

- (1) Structure and Framing: Structurally sound, new or used wood or metal; wood shall be nominal 3/4-inch exterior grade plywood.
- (2) Sign Surface: Minimum 3/4-inch exterior grade plywood.
- (3) Rough Hardware: Galvanized.
- (4) Paint: Exterior quality, of type and colors selected by the District and/or the Architect.

C. Fabrication:

- (1) Contractor shall fabricate to provide smooth, even surface for painting.
- (2) Size: 4'-0" x 8'-0", unless otherwise indicated.
- (3) Contractor shall paint exposed surfaces of supports, framing, and surface material with exterior grade paint: one coat of primer and one coat of finish paint.
- (4) Text and Graphics: As indicated.

1.08 PUBLICITY RELEASES:

- A. Contractor shall not release any information, story, photograph, plan, or drawing relating information about the Project to anyone, including press and other public communications medium, including, without limitation, on website(s).

PART 2 – PRODUCTS Not used.

PART 3 – EXECUTION Not used.

END OF DOCUMENT

DOCUMENT 01 50 13

CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

PART 1 - GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions;
- B. Special Conditions;
- C. Document 01 50 00.

1.02 SECTION INCLUDES:

- A. Administrative and procedural requirements for the following:
 - (1) Salvaging non-hazardous construction waste.
 - (2) Recycling non-hazardous construction waste.
 - (3) Disposing of non-hazardous construction waste.

1.03 DEFINITIONS:

- A. Construction Waste: Building and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.
- B. Demolition Waste: Building and site improvement materials resulting from demolition or selective demolition operations.
- C. Disposal: Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.
- D. Recycle: Recovery of demolition or construction waste for subsequent processing in preparation for reuse.
- E. Salvage: Recovery of demolition or construction waste and subsequent sale or reuse in another facility.
- F. Salvage and Reuse: Recovery of demolition or construction waste and subsequent incorporation into the Work.

1.04 PERFORMANCE REQUIREMENTS:

- A. General: Develop waste management plan that results in end-of Project rates for salvage/recycling of fifty percent (50%) by weight (or by volume, but not a combination) of total waste generated by the Work.

1.05 SUBMITTALS:

- A. Waste Management Plan: Submit waste management plan within 30 days of date established for commencement of the Work.
- B. Waste Reduction Progress Reports: Concurrent with each Application for Payment, submit copies of report. Include the following information:
 - (1) Material category.
 - (2) Generation point of waste.
 - (3) Total quantity of waste in tons or cubic yards.
 - (4) Quantity of waste salvaged, both estimated and actual in tons or cubic yards.
 - (5) Quantity of waste recycled, both estimated and actual in tons or cubic yards.
 - (6) Total quantity of waste recovered (salvaged plus recycled) in tons or cubic yards.
 - (7) Total quantity of waste recovered (salvaged plus recycled) as a percentage of total waste.
- C. Waste Reduction Calculations: Before request for final payment, submit copies of calculated end-of-Project rates for salvage, recycling, and disposal as a percentage of total waste generated by the Work.
- D. Records of Donations: Indicate receipt and acceptance of salvageable waste donated to individuals and organizations. Indicate whether organization is tax exempt.
- E. Records of Sales: Indicate receipt and acceptance of salvageable waste sold to individuals and organizations. Indicate whether organization is tax exempt.
- F. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling and processing facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.

- G. Landfill and Incinerator Disposal Records: Indicate receipt and acceptance of waste by landfills and incinerator facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.
- H. CHPS Submittal: CHPS letter template for Credit ME2.0 and ME2.1, signed by Contractor, tabulating total waste material, quantities diverted and means by which it is diverted, and statement that requirements for the credit have been met.
- I. Qualification Data: For Waste Management Coordinator.
- J. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician responsible for recovering refrigerant, stating that all refrigerant that was present was recovered and that recovery was performed according to EPA regulations. Include name and address of technician and date refrigerant was recovered.
- K. Submittal procedures and quantities are specified in Document 01300.

1.06 QUALITY ASSURANCE:

- A. Waste Management Coordinator Qualifications: LEED Accredited Professional by U.S. Green Building Council.
- B. Regulatory Requirements: Comply with hauling and disposal regulations of authorities having jurisdiction.
- C. Waste Management Conference: Conduct conference at Project site to comply with requirements. Review methods and procedures related to waste management including, but not limited to, the following:
 - (1) Review and discuss waste management plan including responsibilities of Waste Management Coordinator.
 - (2) Review requirements for documenting quantities of each type of waste and its disposition.
 - (3) Review and finalize procedures for materials separation and verify availability of containers and bins needed to avoid delays.
 - (4) Review procedures for periodic waste collection and transportation to recycling and disposal facilities.
 - (5) Review waste management requirements for each trade.

1.07 WASTE MANAGEMENT PLAN:

- A. General: Develop plan consisting of waste identification, waste reduction work plan, and cost/revenue analysis. Indicate quantities by weight or volume, but use same units of measure throughout waste management plan.
- B. Waste Identification: Indicate anticipated types and quantities of site-clearing and construction waste generated by the Work. Include estimated quantities and assumptions for estimates.
- C. Waste Reduction Work Plan: List each type of waste and whether it will be salvaged, recycled, or disposed of in landfill or incinerator. Include points of waste generation, total quantity of each type of waste, quantity for each means of recovery, and handling and transportation procedures.
 - (1) Salvaged Materials for Reuse: For materials that will be salvaged and reused in this Project, describe methods for preparing salvaged materials before incorporation into the Work.
 - (2) Salvaged Materials for Sale: For materials that will be sold to individuals and organizations, include list of their names, addresses, and telephone numbers.
 - (3) Salvaged Materials for Donation: For materials that will be donated to individuals and organizations, include list of their names, addresses, and telephone numbers.
 - (4) Recycled Materials: Include list of local receivers and processors and type of recycled materials each will accept. Include names, addresses, and telephone numbers.
 - (5) Disposed Materials: Indicate how and where materials will be disposed of. Include name, address, and telephone number of each landfill and incinerator facility.
 - (6) Handling and Transportation Procedures: Include method that will be used for separating recyclable waste including sizes of containers, container labeling, and designated location on Project site where materials separation will be located.

PART 2 - PRODUCTS Not Used.

PART 3 - EXECUTION

3.01 PLAN IMPLEMENTATION:

- A. General: Implement approved waste management plan. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.
 - (1) Comply with Document 01500 for operation, termination, and removal requirements.
- B. Waste Management Coordinator: Engage a waste management coordinator to be responsible for implementing, monitoring, and reporting status of waste management work plan. Coordinator shall be present at Project site full time for duration of Project.
- C. Training: Train workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work occurring at Project site.
 - (1) Distribute waste management plan to everyone concerned within 3 days of submittal return.
 - (2) Distribute waste management plan to entities when they first begin work on site. Review plan procedures and locations established for salvage, recycling, and disposal.
- D. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
 - (1) Designate and label specific areas of Project site necessary for separating materials that are to be salvaged, recycled, reused, donated, and sold.
 - (2) Comply with Document 01500 for controlling dust and dirt, environmental protection, and noise control.

3.02 RECYCLING CONSTRUCTION WASTE:

- A. General: Recycle paper and beverage containers used by on-site workers.
- B. Recycling Incentives: Revenues, savings, rebates, tax credits, and other incentives received for recycling waste materials shall accrue to the Contractor.

- C. Procedures: Separate recyclable waste from other waste materials, trash, and debris. Separate recyclable waste by type at Project site to the maximum extent practical.
 - (1) Provide appropriately marked containers or bins for controlling recyclable waste until they are removed from Project Site. Include list of acceptable and unacceptable materials at each container and bin.
 - (a) Inspect containers and bins for contamination and remove contaminated materials if found.
 - (2) Stockpile processed materials on site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
 - (3) Stockpile materials away from construction area. Do not store within drip line of remaining trees.
 - (4) Store components off the ground and protect from the weather.
 - (5) Remove recyclable waste off District property and transport to recycling receiver or processor.
- D. Packaging:
 - (1) Cardboard and Boxes: Break down packaging into flat sheets. Bundle and store in a dry location.
 - (2) Polystyrene Packaging: Separate and bag material.
 - (3) Pallets: As much as possible, require deliveries using pallets to remove pallets from Project Site. For pallets that remain on Site, break down pallets into component wood pieces and comply with requirements for recycling wood.
 - (4) Crates: Break down crates into component wood pieces and comply with requirements for recycling wood.
- E. Site-Clearing Wastes: Chip brush, branches, and trees on site.
- F. Wood Materials:
 - (1) Clean Cut-Offs of Lumber: Grind or chip into small pieces.
 - (2) Clean Sawdust: Bag sawdust that does not contain painted or treated wood.
- G. Gypsum Board: Stack large clean pieces on wood pallets and store in a dry location.

- (1) Clean Gypsum Board: Grind scraps of clean gypsum board using small mobile chipper or hammer mill. Screen out paper after grinding.

3.03 DISPOSAL OF WASTE:

- A. General: Except for items or materials to be salvaged, recycled, or otherwise reused, remove waste materials from Project Site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.
 - (1) Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on site.
 - (2) Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- B. Burning: Do not burn waste materials.
- C. Disposal: Transport waste materials off District property and legally dispose of them.

END OF SECTION

DOCUMENT 01 52 13

FIELD OFFICES

PART 1 – GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions;
- B. Special Conditions; and
- C. Temporary Facilities and Controls.

1.02 SECTION INCLUDES:

- A. Requirements for Field Offices and Field Office Trailers.

1.03 SUMMARY:

- A. General: Contractor shall provide District's Field Office Trailer and contents, for District's use exclusively, during the term of the Contract.
- B. Property: Trailer, furniture, furnishings, equipment, and the like, supplied by the Contractor with the Office Trailer shall remain the property of the Contractor; District property items installed, delivered, and the like by District within the Office Trailer will remain District's property.
- C. Modifications: District reserves the right to modify the trailer or contents, or both, as may be deemed proper by District.
- D. Condition: Trailer and contents shall be clean, neat, substantially finished, in good, proper, and safe condition for use, operation, and the like; the trailer and contents shall not be required to be new.
- E. Installation Timing: Provide safe, fully furnished, functional, proper, complete, and finished trailer properly ready for entire use, within fourteen (14) calendar days of District's notification of the issuance of Notice to Proceed.

1.04 SUBMITTALS:

- A. General: Submit submittals to District in quantity, format, type, and the like, as specified herein.

- B. Office Trailer Data: One (1) copy of manufacturer's descriptive data, technical descriptions, regulatory compliance, industry standards, installation, removal, and maintenance instructions.
- C. Equipment Data: Two (2) copies of manufacturer data for each type of equipment, if directed by District.
- D. Furniture and Furnishings Data: Two (2) copies of manufacturer data for each type of equipment, if directed by District.
- E. Plans: One (1) reproducible copy of appropriately scaled plans of trailer layout. Plans shall include, but not be limited to: lighting; furniture; equipment; telephone and electrical outlets; and the like.
- F. Product Samples: One (1) complete and entire unit of each type, if directed by District.

1.05 QUALITY ASSURANCE

- A. Standards: In the event that provisions of codes, regulations, safety orders, Contract Documents, referenced manufacturer's specifications, manufacturer's instructions, industry standards, and the like, are in conflict, the more restrictive and higher quality shall govern.
- B. Installer: Installer or Installers engaged by Contractor must have a minimum of five (5) years of documented and properly authenticated successful experience of specialization in the installation of the items or systems, or both, specified herein.
- C. Manufacturer: Contractor shall obtain products from nationally and industry recognized Manufacturer with five (5) years minimum, of immediately recent, continuous, documented and properly authenticated successful experience of specialization in the manufacture of the product specified herein.
- D. State Personnel Training: Provide proper training for maintenance and operations, including emergency procedures, and the like, as directed by District.
- E. Units: Shall be sound and free of defects, and shall not include any damage or defect that will impair the safety, installation, performance, or the durability of the entire Office Trailer and appurtenant systems.

1.06 REGULATORY REQUIREMENTS

- A. General: Work shall be executed in accordance with applicable Codes, Regulations, Statutes, Enactment's, Rulings, Laws, each authority having jurisdiction, and including, but not limited to, Regulatory Requirements specified herein.
- B. California Building Standards Code ("CBSC").
- C. California Code of Regulations, Title 25, Chapter 3, Sub Chapter 2, Article 3 ("CCR").

- D. Coach Insignia: Trailer shall display California Commercial Coach Insignia; such insignia shall be deemed to show that the trailer is in accordance with the Construction and Fire Safety requirements of CCR.

PART 2 – PRODUCTS

2.01 FIELD OFFICE TRAILER

- A. General: Provide entire Field Office Trailer of type, function, operation, capacity, size, complete with controls, safety devices, accessories, and the like, for proper and durable installation. Partitions, walls, ceiling, and other interior and exterior surfaces shall be appropriately finished, including, but not limited to, trim, painting, wall base, floor covering, suspended or similar ceiling, and the like; provide systems, components, units, nuts, bolts, screws, anchoring devices, fastening devices, washers, accessories, adhesives, sealants, and other items of type, grade, and class required for the particular use, not identified but required for a complete, weather-tight, appropriately operating, and finished installation.
- B. Manufacturers: General Electric Capital Modular Space; The Space Place, Inc.; or equal.
- C. Program: Provide a wheel-mounted trailer with stairs, landings, platforms, ramps, stairs, platforms, and the like, in good, proper, safe, clean, and properly finished condition; with proper heavy duty locks, and other proper and effective security at all doors, windows, and the like. Trailer shall be maintained in good, proper, safe, clean, and properly finished condition during the Contract.
 - (1) Nominal Trailer Size: Four hundred eighty (480) square feet, minimum.
 - (2) Stairs, Platform: Properly finished stairs, platforms, and ramps.
 - (3) Doors: Two (2), three (3) foot wide exterior doors with locksets; finished ramp, steps, and entry platform at each exterior door.
 - (4) Keys: Submit five (5) keys for each door, window, furniture unit, and the like, there shall be no other key copies or originals available; each key shall be identified for District; and shall be labeled, or tagged or both, as directed by District.
 - (5) Lighting: Sixty-five (65) foot-candles illumination minimum at any point, at thirty (30) inches above finished floor throughout from fluorescent light source, exclusively, or as directed by District.
 - (6) Electrical Outlets: One (1) duplex outlet evenly spaced every twelve (12) linear horizontal feet of wall face, and electrical service ready for use.
 - (7) Telephones and Telephone Outlets: Two (2) telephone lines wired, connected to telephone utility service, and ready for use, and two (2) telephone instruments, each with two (2)-line capability, speed dial and hands-free feature. Locate each outlet as directed by District.
 - (8) Answering Machine: One (1) unit, two (2)-line; digital.

2.02 FIELD OFFICE TRAILER ITEMS

- A. General: Provide the Field Office Trailer with the following arranged into two (2) workstations:
- (1) Desks: Two (2) desks: thirty-six (36) inches by sixty (60) inches; steel, laminated plastic top; locking, one (1) or two (2) file drawers single pedestal; steel; provide five (5) keys to District.
 - (2) Tables: Two (2) tables; thirty-six (36) inches by sixty (60) inches; twenty-nine (29) inches high; steel, laminated plastic top tables; one (1) at each desk.
 - (3) Chairs: Two (2) chairs: swivel; steel; with seat cushion and arms; one (1) at each desk.
 - (4) Waste Baskets: Two (2) waste baskets, one at each desk.
- B. Furniture and Equipment: Provide in the space located to effect efficient and logical use.
- (1) File Cabinet: One (1) file cabinet: four (4) drawer; lateral; steel locking.
 - (2) Plan Table: One (1) plan table: thirty-six (36) inches deep by seventy-two (72) inches wide by forty-two (42) inches high; adjustable; wood or steel; with lockable plan and pencil drawers.
 - (3) Drafting Stool: One (1) drafting stool; swiveling; steel; padded; adjustable; with footrest and casters.
 - (4) Bookshelf: One (1) bookshelf: thirty-six (36) inches deep by seventy-two (72) inches wide by forty-two (42) inches high; adjustable; wood or steel; with lockable plan and pencil drawer.
 - (5) Plan Rack: One (1) wheel mounted plan rack.
 - (6) Waste Baskets: One (1) large waste basket.
 - (7) Coat/Hat Hanger: Wall mounted with minimum capacity for four (4) garments and ten (10) hats.
 - (8) Document Management System: Shall include an integrated high-volume printer, copier, and facsimile machine, including stand, base, and storage cabinet; and shall include the following features:
 - (a) Type: Laser, dry electrostatic transfer, plain paper, digital, multi-function imaging system.
 - (b) Network: Ethernet or Token Ring network ready, Plug-and-Play.
 - (c) Print, send/receive facsimile from any connected workstation.

- (d) Resolution: Six hundred (600) dots per inch by six hundred (600) dots per inch, minimum.
 - (e) Print Speed: Twenty (20) pages per minute, minimum.
 - (f) Copies: Twenty (20) copies per minute, minimum.
 - (g) Document Handler: Forty (40) sheet, minimum
 - (h) Collator: Forty (40) bin, minimum, with stapling.
 - (i) Duplexing: Capable.
 - (j) Paper Size: Capable of handling paper sizes to eleven (11) inches by seventeen (17) inches.
 - (k) Paper Cassettes: One (1) each for eight and one half (8.5) inches by eleven (11) inches, eight and one half (8.5) inches by fourteen (14) inches, and eleven (11) inches by seventeen (17) inches paper sizes; minimum two hundred fifty (250) sheets per cassette.
 - (l) Reduction/Enlargement: Capable of reduction to twenty-five percent (25%) and enlargement to two hundred percent (200%).
 - (m) Facsimile Electronic Storage: Capable of storing minimum of fifty (50) speed dial numbers, group faxing and broadcast faxing.
 - (n) Facsimile Scanning: Capable of scanning into memory a minimum of one hundred (100) pages with maximum scan time of three (3) seconds per page.
 - (o) Halftone: Sixty-four (64) levels.
 - (p) Redial: Automatic and Manual.
- (9) Maintenance: Contractor shall purchase service agreements for each unit of equipment for the duration of the project plus two (2) months, and shall maintain all equipment in proper working condition. Service agreements shall include provision for replacement of toner cartridges and other items required to effect proper unit use. Service agreements shall also provide for:
- (a) Unlimited Service Calls.
 - (b) Same Day Response.
 - (c) All parts, labor, preventative maintenance and mileage.
 - (d) All chemicals, such as toner, fixing agent, and the like.
 - (e) System training and setup.

- (10) Portable Toilets: Two (2); each shall include a urinal; each unit shall be a properly enclosed chemical unit conforming to ANSI Z4.3.
 - (a) Location: As directed by District.
 - (b) Maintenance: Maintain each unit and surrounding areas in a clean, hygienic and orderly manner, at all time. Empty, clean, and sanitize each unit each day at a location and time as directed by District.
 - (c) Removal: Relocate, or remove from the site, each Portable Toilet. Upon such directive by District, the Contractor shall forthwith relocate or remove each Portable Toilet and submit the affected areas to a condition which existed prior to the installation of each Portable Toilet, within three (3) calendar days, or as directed by District in writing, at no cost to District.

2.03 UTILITY AND SERVICES

- A. Telephone Service: Contractor shall provide and interface the entire telephone service, and shall properly and timely pay for telephone service for District’s non-long-distance use.
- B. Electrical Service: Provide all proper connections and continuously pay for service for the duration of the Work.

2.04 FINISHES

- A. General: Manufacturer standard finish system over surfaces properly cleaned, pretreated, and prepared to obtain proper bond; all visible surfaces shall be coated.
- B. Finish: Color as selected by District from manufacturer standard palette.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. General: Properly prepare area and affected items to receive the Work. Set Work accurately in location, alignment, and elevation; rigidly, securely, and firmly anchor to appropriate structure; install plumb, straight, square, level, true, without racking, rigidly anchored to proper solid blocking, substrate, and the like; provide appropriate type and quantity of reinforcements, fasteners, adhesives, self-adhesive and other tapes; lubricants, coatings, accessories, and the like, as required for a complete, structurally rigid, stable, sound, and appropriately finished installation, in accordance with manufacturer’s published instructions, and as indicated. The more restrictive and higher quality requirement shall govern. Moving parts shall be properly secured, without binding, looseness, noise, and the like.
- B. Installation: Install in accordance with 25 CCR 3.2.3 and as directed by District; jack up trailer and level both ways; mount on proper concrete piers with all load off wheels; provide required tie down and accessories per Section 4368 of referenced CCR, and as directed by District.

- C. Rejected Work: Work, materials, unit, items, systems, and the like, not accepted by District shall be deemed rejected, and shall forthwith be removed and replaced with proper and new Work, materials, unit, items, systems, and the like at no cost to District.
- D. Standard: Comply with manufacturer's published instructions, or with instructions as shown or indicated; the more restrictive and higher quality requirement shall govern.
- E. Location: As directed by District.
- F. Fire Resistance: Construct and install in accordance with UL requirements.
- G. Maintenance: Contractor shall maintain trailer and adjacent areas in a safe, clean and hygienic condition throughout the duration of the Work, and as directed by District. Properly repair or replace furniture or other items, as directed by District. Properly remove unsafe, damaged, or broken furniture, or similar items, and replace with safe and proper items. Contractor shall pay cost of all services, repair, and maintenance, or replacement of each item.
- H. Janitorial Service: Provide professional janitorial services, including, but not limited to, trash, waste paper baskets, fill paper dispensers; clean and dust all furniture, files, and the like; sweep and mop resilient and similar flooring; and vacuum carpeting and similar flooring.
 - (1) Frequency: Two (2) times per week, minimum.
- I. Removal: Properly remove the Office Trailer and contents from the Site upon completion of the Contract, or as directed by District in writing. Forthwith properly patch and repair affected areas; replace damaged items with new items. Carefully and properly inventory, clean, pack, store, and protect District property; submit District property to District at a date, time and location as directed by District.

END OF DOCUMENT

DOCUMENT 01 64 00

OWNER-FURNISHED PRODUCTS

PART 1 – GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions;
- B. Special Conditions; and
- C. Materials and Equipment.

1.02 SECTION INCLUDES:

- A. Requirements for the following:
 - (1) Installing Owner-furnished materials and equipment.
 - (2) Providing necessary utilities, connections and rough-ins.

1.03 DEFINITIONS

- A. Owner: District, who is providing/furnishing materials and equipment.
- B. Installer Contactor: Contractor, who is installing the materials and equipment furnished by the Owner.

1.04 PRODUCT DELIVERY, STORAGE, AND HANDLING:

- A. Receive, store and handle products in accordance with the manufacturer's instructions.
- B. Protect equipment items as required to prevent damage during storage and construction.

PART 2 – PRODUCTS

2.01 GENERAL PRODUCT REQUIREMENTS:

- A. Installer Contractor's Responsibilities:
 - (1) Verify mounting and utility requirements for Owner-furnished materials and equipment items.

- (2) Provide mounting and utility rough in for all items where required.
 - (a) Rough in locations, sizes, capacities, and similar type items shall be as indicated and required by product manufacturer.

B. Owner and Installer Contractor(s) Responsibilities:

- (1) Owner-Furnished/Contractor Installed ("OFCI"): Furnished by the Owner; installed by the Installer Contractor.
 - (a) General: Owner and Installer Contractor(s) will coordinate deliveries of materials and equipment to coincide with the construction schedule.
 - (b) Owner will furnish specified materials and equipment delivered to the site. Owner/vendor's representative shall be present on Site at the time of delivery to comply with the contract requirements and Specifications Section 01 43 00, Materials and Equipment, Article 1.04.
 - (c) The Owner furnishing specified materials and equipment is responsible to provide manufacturer guarantees as required by the Contract to the Installer Contractor.
 - (d) The Installer Contractor shall:
 - 1) Review, verify and accept the approved manufacturer's submittal/Shop Drawings for all materials and equipment required to be installed by the Installer Contractor and furnished by the Owner. Any discrepancies, including but not limited to possible space conflicts, should be brought to the attention of the Project Manager and/or Program Manager, if applicable.
 - 2) Coordinate timely delivery. Installer Contractor shall receive materials and equipment at Site when delivered and give written receipt at time of delivery, noting visible defects or omissions; if such declaration is not given, the Installer Contractor shall assume responsibility for such defects and omissions.
 - 3) Store materials and equipment until ready for installation and protect from loss and damage. Installer Contractor is responsible for providing adequate storage space.
 - 4) Coordinate with other bid package contractors and field measurement to ensure complete installation.
 - 5) Uncrate, assemble, and set in place.
 - 6) Provide adequate supports.

- 7) Install materials and equipment in accordance with manufacturer's recommendations, instructions, and Shop Drawings, supplying labor and material required and making mechanical, plumbing, and electrical connections required to operate equipment.
- 8) Be certified by equipment manufacturer for installation of the specific equipment supplied by the Owner.
- 9) Provide anchorage and/or bracing as required for seismic restraint per Title 24, UBC Standard 27-11 and all other applicable codes.
- 10) Provide the contract-required warranty/guarantee for all work, materials/equipment and installation upon its completion and acceptance by the District. Guarantee includes all costs associated with the removal, shipping to and from the Site, and re-installation of any equipment found to be defective.

C. Compatibility with Space and Service Requirements:

- (1) Equipment items shall be compatible with space limitations indicated and as shown on the Contract Documents and specified in other sections of the Specifications.
- (2) Modifications to equipment items required to conform to space limitations specified for rough in shall not cause additional cost to the District.

D. Manufacturer's printed descriptions, specifications, and instructions shall govern the Work unless specifically indicated or specified otherwise.

2.02 FURNISHED MATERIALS AND EQUIPMENT

- A. All furnished materials and equipment are indicated or scheduled on the Contract Documents.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. Install equipment items in accordance with the manufacturer's instructions.
- B. Set equipment items securely in place, rigidly or flexibly mounted in accordance with manufacturers' directions.
- C. Make electrical and mechanical connections as indicated and required.
- D. Touch-up and restore damaged or defaced finishes to the District's satisfaction.

3.02 CLEANING AND PROTECTION

- A. Repair or replace items not acceptable to the Architect.
- B. Upon completion of installation, clean equipment items in accordance with manufacturer's recommendations, and protect from damage until final acceptance of the Work by the District.

END OF DOCUMENT

SECTION 01 66 00

PRODUCT DELIVERY, STORAGE, AND HANDLING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions, including, without limitation, Site Access, Conditions and Requirements;
- B. Special Conditions.

1.02 PRODUCTS

- A. Products are as defined in the General Conditions.
- B. Contractor shall not use and/or reuse materials and/or equipment removed from existing Premises, except as specifically permitted by the Contract Documents.
- C. Contractor shall provide interchangeable components of the same manufacturer, for similar components.

1.03 TRANSPORTATION AND HANDLING

- A. Contractor shall transport and handle Products in accordance with manufacturer's instructions.
- B. Contractor shall promptly inspect shipments to confirm that Products comply with requirements, quantities are correct, and products are undamaged.
- C. Contractor shall provide equipment and personnel to handle Products by methods to prevent soiling, disfigurement, or damage.

1.04 STORAGE AND PROTECTION

- A. Contractor shall store and protect Products in accordance with manufacturer's instructions, with seals and labels intact and legible. Contractor shall store sensitive products in weather-tight, climate controlled enclosures.
- B. For exterior storage of fabricated Products, Contractor shall place on sloped supports, above ground.
- C. Contractor shall provide off-site storage and protection when Site does not permit on-site storage or protection.

- D. Contractor shall cover products subject to deterioration with impervious sheet covering and provide ventilation to avoid condensation.
- E. Contractor shall store loose granular materials on solid flat surfaces in a well-drained area and prevent mixing with foreign matter.
- F. Contractor shall provide equipment and personnel to store Products by methods to prevent soiling, disfigurement, or damage.
- G. Contractor shall arrange storage of Products to permit access for inspection and periodically inspect to assure Products are undamaged and are maintained under specified conditions.

PART 2 – PRODUCTS Not Used.

PART 3 - EXECUTION Not Used.

END OF DOCUMENT

DOCUMENT 01 71 23

FIELD ENGINEERING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions, including, without limitation, Site Investigation, and Soils Investigation Report;
- B. Special Conditions;
- C. Site-Visit Certification.

1.02 REQUIREMENTS INCLUDED:

- A. Contractor shall provide and pay for field engineering services by a California-registered engineer, required for the project, including, without limitations:
 - (1) Survey work required in execution of the Project.
 - (2) Civil or other professional engineering services specified, or required to execute Contractor's construction methods.

1.03 QUALIFICATIONS OF SURVEYOR OR ENGINEERS:

Contractor shall only use a qualified licensed engineer or registered land surveyor, to whom District makes no objection.

1.04 SURVEY REFERENCE POINTS:

- A. Existing basic horizontal and vertical control points for the Project are those designated on the Drawings.
- B. Contractor shall locate and protect control points prior to starting Site Work and preserve all permanent reference points during construction. In addition Contractor shall:
 - (1) Make no changes or relocation without prior written notice to District and Architect.
 - (2) Report to District and Architect when any reference point is lost or destroyed, or requires relocation because of necessary changes in grades or locations.

- (3) Require surveyor to replace Project control points based on original survey control that may be lost or destroyed.

1.05 RECORDS:

Contractor shall maintain a complete, accurate log of all control and survey work as it progresses.

1.06 SUBMITTALS:

- A. Contractor shall submit name and address of Surveyor and Professional Engineer to District and Architect prior to its/their work on the Project.
- B. On request of District and Architect, Contractor shall submit documentation to verify accuracy of field engineering work, at no additional cost to the District.
- C. Contractor shall submit a certificate signed by registered engineer or surveyor certifying that elevations and locations of improvements are in conformance or nonconformance with Contract Documents.

PART 2 – PRODUCTS Not Used.

PART 3 - EXECUTION

3.01 COMPLIANCE WITH LAWS:

Contractor is responsible for meeting all applicable codes, OSHA, safety and shoring requirements.

3.02 NONCONFORMING WORK:

Contractor is responsible for any re-surveying required by correction of nonconforming work.

END OF DOCUMENT

DOCUMENT 01 73 29

CUTTING AND PATCHING

1. PART 1 – GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions, including, without limitation, Inspector, Inspections, and Tests, Integration of Work, Nonconforming Work, and Correction of Work, and Uncovering Work;
- B. Special Conditions;
- C. Hazardous Materials Procedures and Requirements;
- D. Hazardous Materials Certification;
- E. Lead-Based Paint Certification;
- F. Imported Materials Certification.

1.02 CUTTING AND PATCHING:

- A. Contractor shall be responsible for all cutting, fitting, and patching, including associated excavation and backfill, required to complete the Work or to:
 - (1) Make several parts fit together properly.
 - (2) Uncover portions of Work to provide for installation of ill-timed Work.
 - (3) Remove and replace defective Work.
 - (4) Remove and replace Work not conforming to requirements of Contract Documents.
 - (5) Remove Samples of installed Work as specified for testing.
 - (6) Provide routine penetrations of non-structural surfaces for installation of piping and electrical conduit.
 - (7) Attaching new materials to existing remodeling areas – including painting (or other finishes) to match existing conditions.
- B. In addition to Contract requirements, upon written instructions from the District, Contractor shall uncover Work to provide for observations of covered Work in accordance with the Contract Documents; remove samples of

installed materials for testing as directed by District; and remove Work to provide for alteration of existing Work.

- C. Contractor shall not cut or alter Work, or any part of it, in such a way that endangers or compromises the integrity of the Work, the Project, or work of others.

1.03 SUBMITTALS:

- A. Prior to any cutting or alterations that may affect the structural safety of Project, or work of others, and well in advance of executing such cutting or alterations, Contractor shall submit written notice to District pursuant to the applicable notice provisions of the Contract Documents, requesting consent to proceed with the cutting or alteration, including the following:
 - (1) The work of the District or other trades.
 - (2) Structural value or integrity of any element of Project.
 - (3) Integrity or effectiveness of weather-exposed or weather-resistant elements or systems.
 - (4) Efficiency, operational life, maintenance or safety of operational elements.
 - (5) Visual qualities of sight-exposed elements.
- B. Contractor's Request shall also include:
 - (1) Identification of Project.
 - (2) Description of affected Work.
 - (3) Necessity for cutting, alteration, or excavations.
 - (4) Affects of Work on District, other trades, or structural or weatherproof integrity of Project.
 - (5) Description of proposed Work:
 - (a) Scope of cutting, patching, alteration, or excavation.
 - (b) Trades that will execute Work.
 - (c) Products proposed to be used.
 - (d) Extent of refinishing to be done.
 - (6) Alternates to cutting and patching.

- (7) Cost proposal, when applicable.
- (8) The scheduled date the Contractor intends to perform the Work and the duration of time to complete the Work.
- (9) Written permission of other trades whose Work will be affected.

1.04 QUALITY ASSURANCE:

- A. Contractor shall ensure that cutting, fitting, and patching shall achieve security, strength, weather protection, appearance for aesthetic match, efficiency, operational life, maintenance, safety of operational elements, and the continuity of existing fire ratings.
- B. Contractor shall ensure that cutting, fitting, and patching shall successfully duplicate undisturbed adjacent profiles, materials, textures, finishes, colors, and that materials shall match existing construction. Where there is dispute as to whether duplication is successful or has been achieved to a reasonable degree, the District's decision shall be final.

1.05 PAYMENT FOR COSTS:

- A. Cost caused by ill-timed or defective Work or Work not conforming to Contract Documents, including costs for additional services of the District, its consultants, including but not limited to the Construction Manager, the Architect, the Project Inspector(s), Engineers, and Agents, will be paid by Contractor and/or deducted from the Contract by the District.
- B. District shall only pay for cost of Work if it is part of the original Contract Price or if a change has been made to the contract in compliance with the provisions of the General Conditions. Cost of Work performed upon instructions from the District, other than defective or nonconforming Work, will be paid by District on approval of written Change Order. Contractor shall provide written cost proposals prior to proceeding with cutting and patching.

PART 2 - PRODUCTS

2.01 MATERIALS:

- A. Contractor shall provide for replacement and restoration of Work removed. Contractor shall comply with the Contract Documents and with the Industry Standard(s), for the type of Work, and the Specification requirements for each specific product involved. If not specified, Contractor shall first recommend a product of a manufacturer or appropriate trade association for approval by the District.
- B. Materials to be cut and patched include those damaged by the performance of the Work.

PART 3 – EXECUTION

3.01 INSPECTION:

- A. Contractor shall inspect existing conditions of the Site and the Work, including elements subject to movement or damage during cutting and patching, excavating and backfilling. After uncovering Work, Contractor shall inspect conditions affecting installation of new products.
- B. Contractor shall report unsatisfactory or questionable conditions in writing to District as indicated in the General Conditions and shall proceed with Work as indicated in the General Conditions by District.

3.02 PREPARATION:

- A. Contractor shall provide shoring, bracing and supports as required to maintain structural integrity for all portions of the Project, including all requirements of the Project.
- B. Contractor shall provide devices and methods to protect other portions of Project from damage.
- C. Contractor shall, provide all necessary protection from weather and extremes of temperature and humidity for the Project, including without limitation, any work that may be exposed by cutting and patching Work. Contractor shall keep excavations free from water.

3.03 ERECTION, INSTALLATION AND APPLICATION:

- A. With respect to performance, Contractor shall:
 - (1) Execute fitting and adjustment of products to provide finished installation to comply with and match specified tolerances and finishes.
 - (2) Execute cutting and demolition by methods that will prevent damage to other Work, and provide proper surfaces to receive installation of repairs and new Work.
 - (3) Execute cutting, demolition excavating, and backfilling by methods that will prevent damage to other Work and damage from settlement.
- B. Contractor shall employ original installer or fabricator to perform cutting and patching for:
 - (1) Weather-exposed surfaces and moisture-resistant elements such as roofing, sheet metal, sealants, waterproofing, and other trades.
 - (2) Sight-exposed finished surfaces.
- C. Contractor shall execute fitting and adjustment of products to provide a finished installation to comply with specified products, functions, tolerances,

and finishes as shown or specified in the Contract Documents including, without limitation, the Drawings and Specifications.

- D. Contractor shall fit Work airtight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces. Contractor shall conform to all Code requirements for penetrations or the Drawings and Specifications, whichever calls for a higher quality or more thorough requirement. Contractor shall maintain integrity of both rated and non-rated fire walls, ceilings, floors, etc.
- E. Contractor shall restore Work which has been cut or removed. Contractor shall install new products to provide completed Work in accordance with requirements of the Contract Documents and as required to match surrounding areas and surfaces.
- F. Contractor shall refinish all continuous surfaces to nearest intersection as necessary to match the existing finish to any new finish.

END OF DOCUMENT

DOCUMENT 01 76 00

ALTERATION PROJECT PROCEDURES

PART 1 – GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions, including, without limitation, Integration of Work, Purchase of Materials and Equipment, Uncovering of Work and Non-conforming Work and Correction of Work and Trenches;
- B. Special Conditions.

PART 2 - PRODUCTS

2.01 PRODUCTS FOR PATCHING AND EXTENDING WORK:

- A. New Materials: As specified in the Contract Documents including, without limitation, in the Specifications, Contractor shall match existing products, conditions, and work for patching and extending work.
- B. Type and Quality of Existing Products: Contractor shall determine by inspection, by testing products where necessary, by referring to existing conditions and to the Work as a standard.

PART 3 - EXECUTION

3.01 EXAMINATION:

- A. Contractor shall verify that demolition is complete and that areas are ready for installation of new Work.
- B. By beginning restoration Work, Contractor acknowledges and accepts the existing conditions.

3.02 PREPARATION:

- A. Contractor shall cut, move, or remove items as necessary for access to alterations and renovation Work. Contractor shall replace and restore these at completion.
- B. Contractor shall remove unsuitable material not as salvage unless otherwise indicated in the Contract Documents. Unsuitable material may include, without limitation, rotted wood, corroded metals, and deteriorated masonry and concrete. Contractor shall replace materials as specified for finished Work.

- C. Contractor shall remove debris and abandoned items from all areas of the Site and from concealed spaces.
- D. Contractor shall prepare surface and remove surface finishes to provide for proper installation of new Work and finishes.
- E. Contractor shall close openings in exterior surfaces to protect existing work from weather and extremes of temperature and humidity. Contractor shall insulate ductwork and piping to prevent condensation in exposed areas. Contractor shall insulate building cavities for thermal and/or acoustical protection, as detailed.

3.03 INSTALLATION:

- A. Contractor shall coordinate Work of all alternations and renovations to expedite completion and to accommodate District occupancy.
- B. Designated Areas and Finishes: Contractor shall complete all installations in all respects, including operational, mechanical work and electrical work.
- C. Contractor shall remove, cut, and patch Work in a manner to minimize damage and to provide a means of restoring Products and finishes to original or specified condition.
- D. Contractor shall refinish visible existing surfaces to remain in renovated rooms and spaces, to specified condition for each material, with a neat transition to adjacent finishes.
- E. Contractor shall install products as specified in the Contract Documents, including without limitation, the Specifications.

3.04 TRANSITIONS:

- A. Where new Work abuts or aligns with existing, Contractor shall perform a smooth and even transition. Patched Work must match existing adjacent work in texture and appearance.
- B. When finished surfaces are cut so that a smooth transition with new Work is not possible, Contractor shall terminate existing surface along a straight line at a natural line of division and make a recommendation for resolution to the District and the Architect for review and approval.

3.05 ADJUSTMENTS:

- A. Where removal of partitions or walls results in adjacent spaces becoming one, Contractor shall rework floors, walls, and ceilings to a smooth plane without breaks, steps, or bulkheads.

- B. Where a change of plane of 1/4 inch or more occurs, Contractor shall submit a recommendation for providing a smooth transition to the District and the Architect for review and approval.
- C. Contractor shall trim existing doors as necessary to clear new floor finish and refinish trim as required.
- D. Contractor shall fit Work at penetrations of surfaces.

3.06 REPAIR OF DAMAGED SURFACES:

- A. Contractor shall patch or replace portions of existing surfaces which are damaged, lifted, discolored, or showing other imperfections.
- B. Contractor shall repair substrate prior to patching finish.

3.07 CULTIVATED AREAS AND OTHER SURFACE IMPROVEMENTS:

- A. Cultivated or planted areas and other surface improvements which are damaged by actions of the Contractor shall be restored by Contractor to their original condition or better, where indicated.
- B. Contractor shall protect and replace, if damaged, all existing guard posts, barricades, and fences.
- C. Contractor shall give special attention to avoid damaging or killing trees, bushes and/or shrubs on the Premises and/or identified the Contract Documents, including without limitation, the Drawings.

3.08 FINISHES:

- A. Contractor shall finish surfaces as specified in the Contract Documents, including without limitations, the provisions of all Divisions of the Specifications.
- B. Contractor shall finish patches to produce uniform finish and texture over entire area. When finish cannot be matched, Contractor shall refinish entire surface to nearest intersections.

3.09 CLEANING:

- A. Contractor shall continually clean the Site and the Premises as indicated in the Contract Documents, including without limitation, the provisions in the General Conditions and the Specifications regarding cleaning.

END OF DOCUMENT

DOCUMENT 01 77 00

CONTRACT CLOSEOUT AND FINAL CLEANING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions, including, without limitation, Completion of Work;
- B. Special Conditions;
- C. Temporary Facilities and Controls.

1.02 CLOSEOUT PROCEDURES

Contractor shall comply with all closeout provisions as indicated in the General Conditions.

1.03 FINAL CLEANING

- A. Contractor shall execute final cleaning prior to final inspection.
- B. Contractor shall clean interior and exterior glass and surfaces exposed to view; remove temporary labels, tape, stains, and foreign substances, polish transparent and glossy surfaces, wax and polish new vinyl floor surfaces, vacuum carpeted and soft surfaces.
- C. Contractor shall clean equipment and fixtures to a sanitary condition.
- D. Contractor shall replace filters of operating equipment.
- E. Contractor shall clean debris from roofs, gutters, down spouts, and drainage systems.
- F. Contractor shall clean Site, sweep paved areas, and rake clean landscaped surfaces.
- G. Contractor shall remove waste and surplus materials, rubbish, and construction facilities from the Site.

1.04 ADJUSTING

Contractor shall adjust operating products and equipment to ensure smooth and unhindered operation.

1.05 RECORD DOCUMENTS AND SHOP DRAWINGS

- A. Contractor shall legibly mark each item to record actual construction, including:
 - (1) Measured depths of foundation in relation to finish floor datum.
 - (2) Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permit surface improvements.
 - (3) Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
 - (4) Field changes of dimension and detail.
 - (5) Details not on original Contract Drawings
 - (6) Changes made by modification(s).
 - (7) References to related Shop Drawings and modifications.
- B. Contractor will provide one set of Record Drawings to District.
- C. Contractor shall submit all required documents to District and/or Architect prior to or with its final Application for Payment.

1.06 INSTRUCTION OF DISTRICT PERSONNEL

- A. Before final inspection, at agreed upon times, Contractor shall instruct District's designated personnel in operation, adjustment, and maintenance of products, equipment, and systems.
- B. For equipment requiring seasonal operation, Contractor shall perform instructions for other seasons within six months.
- C. Contractor shall use operation and maintenance manuals as basis for instruction. Contractor shall review contents of manual with personnel in detail to explain all aspects of operation and maintenance.
- D. Contractor shall prepare and insert additional data in Operation and Maintenance Manual when need for such data becomes apparent during instruction.
- E. Contractor shall use operation and maintenance manuals as basis for instruction. Contractor shall review contents of manual with personnel in detail to explain all aspects of operation and maintenance.

1.07 SPARE PARTS AND MAINTENANCE MATERIALS

- A. Contractor shall provide products, spare parts, maintenance, and extra materials in quantities specified in the Specifications and in Manufacturer's recommendations.
- B. Contractor shall provide District all required Operation and Maintenance Data.

PART 2 – PRODUCTS Not used.

PART 3 – EXECUTION Not used.

END OF DOCUMENT

DOCUMENT 01 78 23

OPERATION AND MAINTENANCE DATA

PART 1 – GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions, including, without limitation, Completion of the Work;
- B. Special Conditions.

1.02 QUALITY ASSURANCE:

Contractor shall prepare instructions and data by personnel experienced in maintenance and operation of described products.

1.03 FORMAT:

- A. Contractor shall prepare data in the form of an instructional manual entitled "OPERATIONS AND MAINTENANCE MANUAL & INSTRUCTIONS" ("Manual").
- B. Binders: Contractor shall use commercial quality, 8-1/2 by 11 inch, three-side rings, with durable plastic covers; two inch maximum ring size. When multiple binders are used, Contractor shall correlate data into related consistent groupings.
- C. Cover: Contractor shall identify each binder with typed or printed title "OPERATION AND MAINTENANCE MANUAL & INSTRUCTIONS"; and shall list title of Project and identify subject matter of contents.
- D. Contractor shall arrange content by systems process flow under section numbers and sequence of Table of Contents of the Contract Documents.
- E. Contractor shall provide tabbed fly leaf for each separate product and system, with typed description of product and major component parts of equipment.
- F. Text: The content shall include Manufacturer's printed data, or typewritten data on 24 pound paper.
- G. Drawings: Contractor shall provide with reinforced punched binder tab and shall bind in with text; folding larger drawings to size of text pages.

1.04 CONTENTS, EACH VOLUME:

- A. Table of Contents: Contractor shall provide title of Project; names, addresses, and telephone numbers of the Architect, any engineers, subconsultants,

Subcontractor(s), and Contractor with name of responsible parties; and schedule of products and systems, indexed to content of the volume.

- B. For Each Product or System: Contractor shall list names, addresses, and telephone numbers of Subcontractor(s) and suppliers, including local source of supplies and replacement parts.
- C. Product Data: Contractor shall mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information.
- D. Drawings: Contractor shall supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Contractor shall not use Project Record Documents as maintenance drawings.
- E. Text: The Contractor shall include any and all information as required to supplement product data. Contractor shall provide logical sequence of instructions for each procedure, incorporating manufacturer's instructions.
- F. Warranties and Bonds: Contractor shall bind in one copy of each.

1.05 MANUAL FOR MATERIALS AND FINISHES:

- A. Building Products, Applied Materials, and Finishes: Contractor shall include product data, with catalog number, size, composition, and color and texture designations. Contractor shall provide information for re-ordering custom manufactured products.
- B. Instructions for Care and Maintenance: Contractor shall include Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental agents and methods, and recommended schedule for cleaning and maintenance.
- C. Moisture Protection and Weather Exposed Products: Contractor shall include product data listing applicable reference standards, chemical composition, and details of installation. Contractor shall provide recommendations for inspections, maintenance, and repair.
- D. Additional Requirements: Contractor shall include all additional requirements as specified in the Specifications.
- E. Contractor shall provide a listing in Table of Contents for design data, with tabbed fly sheet and space for insertion of data.

1.06 MANUAL FOR EQUIPMENT AND SYSTEMS:

- A. Each Item of Equipment and Each System: Contractor shall include description of unit or system, and component parts and identify function, normal operating characteristics, and limiting conditions. Contractor shall

include performance curves, with engineering data and tests, and complete nomenclature, and commercial number of replaceable parts.

- B. Panelboard Circuit Directories: Contractor shall provide electrical service characteristics, controls, and communications.
- C. Contractor shall include color coded wiring diagrams as installed.
- D. Operating Procedures: Contractor shall include start-up, break-in, and routine normal operating instructions and sequences. Contractor shall include regulation, control, stopping, shut-down, and emergency instructions. Contractor shall include summer, winter, and any special operating instructions.
- E. Maintenance Requirements: Contractor shall include routine procedures and guide for trouble-shooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.
- F. Contractor shall provide servicing and lubrication schedule, and list of lubricants required.
- G. Contractor shall include manufacturer's printed operation and maintenance instructions.
- H. Contractor shall include sequence of operation by controls manufacturer.
- I. Contractor shall provide original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.
- J. Contractor shall provide control diagrams by controls manufacturer as installed.
- K. Contractor shall provide Contractor's coordination drawings, with color coded piping diagrams as installed.
- L. Contractor shall provide charts of valve tag numbers, with location and function of each valve, keyed to flow and control diagrams.
- M. Contractor shall provide list of original manufacturer's spare parts, current prices, and recommended quantities to be maintained in storage.
- N. Additional Requirements: Contractor shall include all additional requirements as specified in Specification(s).
- O. Contractor shall provide a listing in Table of Contents for design data, with tabbed fly sheet and space for insertion of data.

1.08 SUBMITTAL:

- A. Contractor shall submit to the District for review two (2) copies of preliminary draft or proposed formats and outlines of the contents of the Manual within thirty (30) days of Contractor's start of Work.
- B. For equipment, or component parts of equipment put into service during construction and to be operated by District, Contractor shall submit draft content for that portion of the Manual within ten (10) days after acceptance of that equipment or component.
- C. Contractor shall submit two (2) copies of a complete Manual in final form prior to final Application for Payment. Copy will be returned with Architect/Engineer comments. Contractor must revise the content of the Manual as required by District prior to District's approval of Contractor's final Application for Payment.
- D. Contractor must submit two (2) copies of revised Manual in final form within ten (10) days after final inspection.

PART 2 – PRODUCTS Not Used.

PART 3 – EXECUTION Not Used.

END OF DOCUMENT

DOCUMENT 01 78 36

WARRANTIES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions, including, without limitation, Warranty/Guarantee Information;
- B. Special Conditions.

1.02 FORMAT

- A. Binders: Contractor shall use commercial quality, 8-1/2 by 11 inch, three-side rings, with durable plastic covers; two inch maximum ring size.
- B. Cover: Contractor shall identify each binder with typed or printed title "WARRANTIES" and shall list title of Project.
- C. Table of Contents: Contractor shall provide title of Project; name, address, and telephone number of Contractor and equipment supplier, and name of responsible principal. Contractor shall identify each item with the number and title of the specific Specification, document, provision, or section in which the name of the product or work item is specified.
- D. Contractor shall separate each warranty with index tab sheets keyed to the Table of Contents listing, providing full information and using separate typed sheets as necessary. Contractor shall list each applicable and/or responsible Subcontractor(s), supplier(s), and/or manufacturer(s), with name, address, and telephone number of each responsible principal(s).

1.03 PREPARATION:

- A. Contractor shall obtain warranties, executed in duplicate by each applicable and/or responsible subcontractor(s), supplier(s), and manufacturer(s), within ten (10) days after completion of the applicable item or work. Except for items put into use with District's permission, Contractor shall leave date of beginning of time of warranty until the date of completion is determined.
- B. Contractor shall verify that documents are in proper form, contain full information, and are notarized, when required.
- C. Contractor shall co-execute submittals when required.
- D. Contractor shall retain warranties until time specified for submittal.

1.04 TIME OF SUBMITTALS:

- A. For equipment or component parts of equipment put into service during construction with District's permission, Contractor shall submit a draft warranty for that equipment or component within ten (10) days after acceptance of that equipment or component.
- B. Contractor shall submit for District approval all warranties and related documents within ten (10) days after date of completion. Contractor must revise the warranties as required by the District prior to District's approval of Contractor's final Application for Payment.
- C. For items of work delayed beyond date of completion, provide updated submittal within ten days after acceptance, listing the date of acceptance as start of warranty period.

PART 2 - PRODUCTS Not Used.

PART 3 – EXECUTION Not Used.

END OF DOCUMENT

DOCUMENT 01 78 39

RECORD DOCUMENTS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions, including, without limitation, Documents on Work;
- B. Special Conditions.

PART 2 - RECORD DRAWINGS

2.01 GENERAL:

- A. As indicated in the Contract Documents, the District will provide Contractor with one (1) set of reproductions (opaque) plans of the original Contract Drawings.
- B. Contractor shall maintain at each Project Site one set of marked-up plans and shall transfer all changes and information to those marked-up plans, as often as required in the Contract Documents, but in no case less than once each month. Contractor shall submit to the Project Inspector one set of reproductions (opaque) of the Project Record Drawings ("As-Builts") showing all changes incorporated into the Work since the preceding monthly submittal. The As-Builts shall be available at the Project Site. The Contractor shall submit reproducible drawings (opaque) at the conclusion of the Project following review of the blueline prints.
- C. Label and date each Record Drawing "RECORD DOCUMENT" in legibly printed letters.
- D. All deviations in construction, including but not limited to pipe and conduit locations and deviations caused by without limitation Change Orders, Construction Claim Directives, RFI's, and Addenda, shall be accurately and legibly recorded by Contractor.
- E. Locations and changes shall be done by Contractor in a neat and legible manner and, where applicable, indicated by drawing a "cloud" around the changed or additional information.

2.02 RECORD DRAWING INFORMATION:

- A. Contractor shall record the following information:
- (1) Locations of Work buried under or outside each building, including, without limitation, all utilities, plumbing and electrical lines, and conduits.
 - (2) Actual numbering of each electrical circuit.
 - (3) Locations of significant Work concealed inside each building whose general locations are changed from those shown on the Contract Drawings.
 - (4) Locations of all items, not necessarily concealed, which vary from the Contract Documents.
 - (5) Installed location of all cathodic protection anodes.
 - (6) Deviations from the sizes, locations, and other features of installations shown in the Contract Documents.
 - (7) Locations of underground work, points of connection with existing utilities, changes in direction, valves, manholes, catch basins, capped stubouts, invert elevations, etc.
 - (8) Sufficient information to locate Work concealed in each building with reasonable ease and accuracy.

In some instances, this information may be recorded by dimension. In other instances, it may be recorded in relation to the spaces in the building near which it was installed.

- B. Contractor shall provide additional drawings as necessary for clarification.
- C. Contractor shall provide reproducible record drawings, made from final Shop Drawings marked "No Exceptions Taken" or "Approved as Noted."

PART 3 - RECORD SPECIFICATIONS

3.01 GENERAL:

Contractor shall mark each section legibly to record manufacturer, trade name, catalog number, and supplier of each Product and item of equipment actually installed.

PART 4 - MAINTENANCE OF RECORD DOCUMENTS

4.01 GENERAL

- A. Contractor shall store Record Documents apart from documents used for construction as follows:
 - (1) Provide files and racks for storage of Record Documents.
 - (2) Maintain Record Documents in a clean, dry, legible condition and in good order.
- B. Do not use Record Documents for construction purposes.

PART 5 – SUBMITTAL

- A. Contractor shall submit one (1) reproduction opaque copy or one (1) electronic pdf format on disc or thumb drive of a complete Record Document in final form prior to final Application for Payment. Copy will be returned with Architect/Engineer comments. Contractor must revise the content of the Record Document as required by District prior to District’s approval of Contractor’s final Application for Payment.
- B. Contractor must submit one (1) reproduction opaque copy and one (1) electronic pdf format on disc or thumb drive of revised Record Document in final form within ten (10) days after final inspection.

END OF DOCUMENT

**END OF DOCUMENTS
FOR
PROJECT MANUAL**

SPECIFICATION SECTIONS FOR PROJECT MANUAL

ABBREVIATIONS

<p> @ -AT AC. T. -ACOUSTIC TILE A.B. -ANCHOR BOLT A.D. -AREA DRAIN ADJ. -ADJUSTABLE AGG. -AGGREGATE ALT. -ALTERNATE ALUM. -ALUMINUM A.P. -ACCESS PANEL APP. -APPROXIMATELY ARCH. -ARCHITECTURAL BA. -BATH(ROOM) BD. -BOARD BET. -BETWEEN B.F. -BI-FOLD BLDG. -BUILDING BLK. -BLOCK(ING) BM. -BEAM BOT. -BOTTOM B.O.W. -BOTTOM OF WALL B.P. -BUILDING PAPER B.S. -BOTH SIDES CAB. -CABINET C.B. -CATCH BASIN C.B.C. -CALIFORNIA BUILDING CODE C/C -CENTER TO CENTER CEM. -CEMENT C. JT. -CONTROL JOINT CLG. -CEILING CLR. -CLEAR CL. -CLOSET CL.RST. -CLERESTORY C.O. -CLEAR OPENING CONF. -CONFERENCE CONC. -CONCRETE CONT. -CONTINUOUS CONST. -CONSTRUCTION CONN. -CONNECTION CORR. -CORRIDOR C.T. -CERAMIC TILE C.W. -COLD WATER DBL. -DOUBLE DEPT. -DEPARTMENT DET. -DETAIL DIA. -DIAMETER DIAG. -DIAGONAL DIM. -DIMENSION DN. -DOWN DR. -DOOR D.S.P. -DRY STANDPIPE D.W. -DISHWASHER DWG. -DRAWING DWR. -DRAWER (E) -EXISTING EA. -EACH E.J. -EXPANSION JOINT ELEC. -ELECTRIC(AL) ELEV. -ELEVATION E.P. -ELECTRIC PANEL EQ. -EQUIP. ETC. -ETCETERA EXH. -EXHAUST EXP. -EXPOSED OR EXPANSION EXT. -EXTERIOR F. -FACE (F) -FIXED GLASS F.A. -FIRE ALARM FAB. -FABRICATED F.E.C. -FIRE EXTINGUISHER CABINET F.F. -FINISH FLOOR F.O. -FINISHED OPENING F.O.C. -FACE OF CONCRETE F.O.F. -FACE OF FINISH F.O.S. -FACE OF STUD F.D. -FLOOR DRAIN F.H.C. -FIRE HOSE CABINET F.H.M.S. -FLAT HEAD MACHINE SCREWS FIN. -FINISH FLASH. -FLASHING FLR. -FLOOR FLUOR. -FLUORESCENT F.P. -FIREPLACE F.S. -FINISH SURFACE FT. -FEET FTG. -FOOTING FURR. -FURRING GA. -GAUGE GALV. -GALVANIZED GEN. -GENERAL G.F.R.C. -GLASS FIBER REINF. CONC. G.F.R.P. -GLASS FIBER REINF. PLAS. GL. -GLASS GND. -GROUND GR. -GRANITE G.M. -GALVANIZED SHEET METAL GYP. -GYPSUM GYP. BD. -GYPSUM BOARD HDW. -HARDWARE HDWD. -HARDWOOD H.M. -HOLLOW METAL HORIZ. -HORIZONTAL H.P. -HIGH POINT HR. -HOUR HT. -HEIGHT INCL. -INCLUDE, INCLUSIVE INFO. -INFORMATION I.D. -INSIDE DIAMETER INST. -INSTALL(ED) INSUL. -INSULATION INT. -INTERIOR INTER. -INTERMEDIATE JAN. -JANITOR'S CLOSET JST. -JOIST JT. -JOINT JR. -JUNIOR LAB. -LABORATORY LAM. -LAMINATE LAV. -LAVATORY LBS. -POUNDS LEV. -LEVEL LIB. -LIBRARY LOU. -LOUVERED </p>	<p> MACH. -MACHINE MAS. -MASONRY MATL. -MATERIAL MAX. -MAXIMUM M.C. -MEDICINE CABINET MECH. -MECHANICAL MEMB. -MEMBRANE MET. -METAL MFG. -MANUFACTURING MFR. -MANUFACTURER MIN. -MINIMUM MIR. -MIRROR MISC. -MISCELLANEOUS M.O. -MASONRY OPENING M.S. -MACHINE SCREWS MTD. -MOUNTED MUL. -MULLION N.A. -NOT APPLICABLE N.I.C. -NOT IN CONTRACT NO. / # -NUMBER NOM. -NOMINAL N.T.S. -NOT TO SCALE O.C. -ON CENTER OFF. -OFFICE O.H. -OPPOSITE HAND O.D. -OUTSIDE DIAMETER ODG. -OPENING OPP. -OPPOSITE OZ. -OUNCE PART. -PARTITION PKT. -POCKET P.L. -PROPERTY LINE PL. -PLATE PLAS. -PLASTER PL. LAM. -PLASTIC LAMINATE PL. GL. -PLATE GLASS PLY. -PLYWOOD POL. -POLISHED PR. -PAIR PRCS. -PRECAST PT. -POINT Q.T. -QUARRY TILE R. -RADIUS OR RISER R.C. -REINFORCED CONCRETE RD. -ROUND OR ROAD REF. -REFERENCE REF. -REFRIGERATOR REG. -REGISTER REINF. -REINFORCED REQ.D. -REQUIRED RES. -RESILIENT REV. -REVISION RM. -ROOM R.O. -ROUGH OPENING RUB. -RUBBER S. -SINK S.B.C. -SAN FRANCISCO BUILDING CODE S.C. -SOLID CORE SCHED. -SCHEDULE S.P. -SYNTHETIC CEMENT PLASTER SECT. -SECTION S.G. -SINGLE GLAZED S.G.A. -SLIDING GLASS DOOR SH. -SHELF SH. -SHEET SHR. -SHOWER SIM. -SIMILAR S.M.D. -SEE MECHANICAL DRAWINGS S.E.D. -SEE ELECTRICAL DRAWINGS S. & P. -SHELF AND POLE SP. -SPACES S.P.D. -SEE PLUMBING DRAWINGS SPECS. -SPECIFICATION SQ. -SQUARE S.S. -STAINLESS STEEL S.S.D. -SEE STRUCTURAL DRAWINGS STD. -STANDARD STOR. -STORAGE STL. -STEEL STR. -STRUCTURAL SURF. -SURFACE SUSP. -SUSPENDED SVC. -SERVICE SYM. -SYMMETRICAL SYS. -SYSTEM S.W. -SIDEWALK T. -TREAD OR TOILET T.B. -TOWEL BAR TEL. -TELEPHONE T. & G. -TONGUE AND GROOVE THK. -THICK OR THICKNESS THRESH. -THRESHOLD T.O.C. -TOP OF CURB T.O.P. -TOP OF PAVEMENT T.O.W. -TOP OF WALL T.P.D. -TOILET PAPER DISPENSER TYP. -TYPICAL UNF. -UNFINISHED U.O.N. -UNLESS OTHERWISE NOTED V.C.T. -VINYL COMPOSITION TILE VENT. -VENTILATION VERT. -VERTICAL VEST. -VESTIBULE VOL. -VOLUME W. -WASHER W/ -WITH W.A. -WATER CLOSET WOD. -WOOD W.H. -WATER HEATER W/O -WITHOUT W.P. -WATERPROOF(ING) W.S. -WOOD SCREWS W.S.P. -WET STANDPIPE WSCT. -WAINSCOT WT. -WEIGHT W.W.M. -WELDED WIRE MESH </p>
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GENERAL NOTES

- ALL WORK SHALL COMPLY WITH CALIFORNIA BUILDING CODE 2016 EDITION.
- GENERAL NOTES APPLY TO THE ENTIRE WORK OF THIS CONTRACT
- SHEET NOTES APPLY TO THE DRAWING SHEET ON WHICH THEY OCCUR.
- IN CONFLICTS BETWEEN THE SHEET NOTES AND THE GENERAL NOTES, SHEET NOTES WILL GOVERN.
- DO NOT SCALE DRAWINGS.
- VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD PRIOR TO FABRICATION AND ASSEMBLY OF ALL ELEMENTS OF THE WORK.
- WORK NOT DETAILED, MARKED, OR SPECIFIED IN PARTICULAR, WILL BE AS SIMILAR WORK THAT IS DETAILED, MARKED, OR SPECIFIED.
- ALL DIMENSIONS ARE FROM FACE FINISH, U.O.N
- DIMENSIONS DESIGNATED AS "CLEAR OR CLR" ARE FROM FACE OF FINISH. THESE DIMENSIONS MUST BE MAINTAINED AS NOTED.
- CONTRACT DOCUMENTS DESCRIBE THE GENERAL SCOPE OF WORK. THOUGH EVERY ITEM NECESSARY FOR COMPLETION OF THE WORK MAY NOT BE SPECIFICALLY NOTED OR SHOWN THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL ITEMS, COMPONENTS OR ACCESSORIES NECESSARY FOR COMPLETE AND OPERABLE INSTALLATION.
- "TYPICAL" OR "TYP." MEANS IDENTICAL FOR ALL SIMILAR CONDITIONS UNLESS OTHERWISE NOTED. "SIMILAR" OR "SIM." MEANS COMPARABLE CHARACTERISTICS TO THE NOTED CONDITION. "VERIFY" OR "VER." MEANS TO CONFIRM CONDITION OR DETAIL WITH ARCHITECT BEFORE PROCEEDING WITH ITEM OF WORK.
- AT THE START OF CONSTRUCTION PROVIDE WALK-OFF MATS AT THE ENTRANCE TO THE CONSTRUCTION AREA. CONTRACTOR SHALL PROTECT EXISTING BUILDING ELEMENTS FROM DAMAGE WHICH MAY OCCUR FROM DUST, NOISE, VIBRATION, WATER, ETC. SPACES ACCESSIBLE TO THE PUBLIC AND ADJACENT TENANTS SHALL BE PROTECTED THROUGHOUT THE COURSE OF THE WORK.
- THE CONTRACTOR SHALL MAINTAIN THE PREMISES IN AN ORDERLY MANNER THROUGHOUT THE COURSE OF THE WORK. DO NOT BLOCK ENTRANCES, EXITS, LOBBIES, CORRIDORS, ETC. LEAVE THE AREA FREE AND CLEAN OF DEBRIS. AT THE END OF EACH DAY CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE REMOVAL OF DEBRIS, EQUIPMENT USED IN THE WORK AT THE CONCLUSION OF THE PROJECT.
- ALL EXISTING PHYSICAL ELEMENTS, DIMENSIONS, MATERIALS, NOTES, SYMBOLS, DETAILS, SPECIFICATIONS, ETC. MUST BE VERIFIED WITH FIELD CONDITIONS; INCLUDING BUT NOT LIMITED TO: ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL, AND LIFE SAFETY SYSTEMS.
- ALL FIELD CONDITIONS WHICH ARE IN CONFLICT WITH THE DRAWINGS ARE TO BE REVIEWED WITH THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

CODE INFORMATION

2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
 2016 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
 2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
 2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
 2016 NFPA 72- NATIONAL FIRE ALARM AND SIGNALING CODE
 BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL (BICSI) STANDARDS, LATEST EDITION

CALIFORNIA ADMINISTRATIVE TITLE 24, SECTION T-20 LATEST EDITION, CODE HAS BEEN REVIEWED. THE DESIGN SUBMITTED FOR THE BUILDING PERMIT SUBSTANTIALLY CONFORMS TO THESE REGULATIONS.

MECHANICAL AND ELECTRICAL SCOPE OF WORK SHALL BE IN COMPLIANCE WITH 2016 TITLE 24, SECTION 6 OF THE CALIFORNIA ENERGY EFFICIENCY STANDARDS FOR RESIDENTIAL AND NONRESIDENTIAL BUILDINGS.

ALL WORK SHALL BE EXECUTED IN ACCORDANCE WITH ANY AND ALL APPLICABLE CODES, MANUFACTURERS RECOMMENDATIONS, TRADE & REFERENCE STANDARDS, INCLUDING BUT NOT LIMITED TO: CALIFORNIA BUILDING, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE CODES AND LOCAL AMENDMENTS WHERE APPLICABLE, NEC, NFPA, ASME, AMERICANS WITH DISABILITIES ACT, AND OTHER APPLICABLE REGULATORY AUTHORITY'S LATEST EDITIONS.

CHAPTER 4, PART 1, TITLE 24 C.C.R., ADMINISTRATIVE REQUIREMENTS (PARTIAL LISTING ONLY):

A. A COPY OF PARTS 1 & 2, TITLE 24 C.C.R. SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.

B. ALL CHANGE ORDERS AND APPEDA TO BE SIGNED BY THE ARCHITECT, THE CONTRACTOR AND THE OWNER AND APPROVED BY DSA. CHANGE ORDERS NOT VALID UNTIL APPROVED BY DSA PER SECTION 4-338, PART 1, TITLE 24.

C. ALL TESTS TO CONFORM TO THE REQUIREMENTS OF SECTION 4-335, PART 1, TITLE 24, AND APPROVED TESTING & INSPECTION SHEET.

D. TESTS OF MATERIALS AND TESTING LAB SHALL BE IN ACCORDANCE WITH SECTION 4-335 OF PART 1, TITLE 24 AND THE DISTRICT SHALL EMPLOY AND PAY THE LAB, COST OF RE-TEST MAY BE BACK-CHARGED TO THE CONTRACTOR.

E. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE, PER SECTION 4-331, PART 1, TITLE 24.

F. INSPECTOR TO BE APPROVED BY THE ARCHITECT AND DSA. INSPECTION TO BE IN ACCORDANCE WITH SECTION 4-333(B). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-342, PART 1, TITLE 24.

G. SUPERVISION OF CONSTRUCTION BY DSA IN ACCORDANCE WITH SECTION 4-343, PART 1, TITLE 24.

H. CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION 4-343, PART 1, TITLE 24

NOTE

ALL WORK SHALL CONFORM TO THE CALIFORNIA BUILDING CODE, CALIFORNIA ELECTRICAL CODE, CALIFORNIA MECHANICAL CODE, AND CALIFORNIA FIRE CODE.

VICINITY MAP



SEE CAMPUS MAP
 COLLEGE OF MARIN INDIAN VALLEY CAMPUS
 1800 IGNACIO BLVD
 NOVATO, CA 94947

SCOPE OF WORK

INSTALLATION OF 8 PRE APPROVED GENERAL EDUCATION CLASSROOM RELOCATABLE BUILDINGS FOR TEMPORARY INTERIM HOUSING USE (LESS THAN 3 YEARS) ON EXISTING COMMUNITY COLLEGE CAMPUS, AND ASSOCIATED GRADING SITEWORK.

CODE ANALYSIS: RELOCATABLES 1-8

USE:	
OCCUPANCY CLASSIFICATION:	B
ALLOWABLE AREA:	9,000 SF
ALLOWABLE BUILDING HEIGHT:	40'
CONSTRUCTION TYPE:	V-NON RATED
CLIMATE ZONE:	2
AREA PER RELOCATABLE:	960 SF X 8= 7,680 TOTAL SF
RELOCATABLE HEIGHT:	10'-0"

SEE SHEET A0.1 FOR CBC CHAPTER 7A COMPLIANCE.

NOTE: LABELLED KEYS FOR EACH RELOCATABLE TO BE PROVIDED IN CAMPUS KNOX BOX FOR FIRE DEPT. USE.

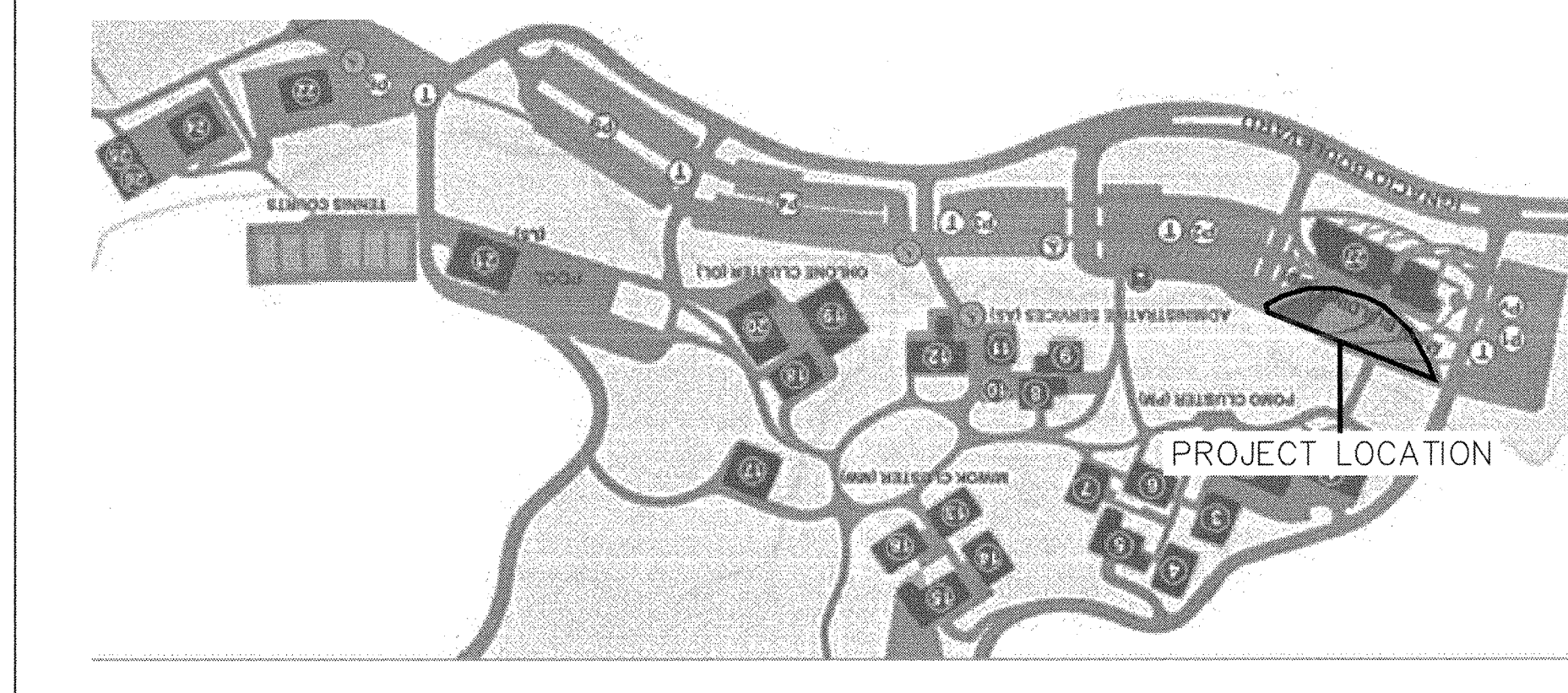
PROJECT DIRECTORY:

DISTRICT	COLLEGE OF MARIN 835 COLLEGE AVENUE KENTFIELD, CA, 94904 PHONE: 415.485.9343
CONSTRUCTION MANAGER	GILBANE BUILDING COMPANY 55 HAWTHORNE STREET SAN FRANCISCO, CA, 94105 CONTACT: MICHAEL HOHL PHONE: 650.503.4645
ARCHITECT:	DLR GROUP/KWAN HENMI 456 MONTGOMERY, SUITE 200 SAN FRANCISCO, CA, 94014 CONTACT: BOLIVAR PUYOL PHONE: 415.901.7234
ELECTRICAL:	GLUMAC 150 CALIFORNIA STREET, 3RD FLOOR SAN FRANCISCO, CA, 94111 CONTACT: JEFFREY KLOMPUS PHONE: 415.693.4094
MECHANICAL:	MOBILE MODULAR MANAGEMENT CORPORATION 5700 LAS POSITAS ROAD LIVERMORE, CA, 94551 CONTACT: CARL YEREMIAN 925.453.3118
FIRE ALARM:	GLUMAC 150 CALIFORNIA STREET, 3RD FLOOR SAN FRANCISCO, CA, 94111 CONTACT: JEFFREY KLOMPUS PHONE: 415.693.4094
STRUCTURAL:	DEGENKOLB ENGINEERS 1300 CLAY STREET, 9TH FLOOR OAKLAND, CA, 94612 CONTACT: HOLLY RAZZANO PHONE: 510.250.1204
CIVIL:	CSW/STUBER-STROEH ENGINEERING GROUP INC. 45 LEVERONI COURT NOVATO, CA, 94949 CONTACT: JIM GROSSI PHONE: 415.884.6450
RELOCATABLE MANUFACTURERS:	MOBILE MODULAR MANAGEMENT CORPORATION 5700 LAS POSITAS ROAD LIVERMORE, CA, 94551 CONTACT: CARL YEREMIAN 925.453.3118

NOTE

THE PROJECT IS LOCATED IN FEMA ZONE X (OUTSIDE 100-YRD FLOOD) AS SHOWN ON FEMA MAP NUMBER 06041C279D, DATED MAY 4, 2009.

CAMPUS MAP



STATEMENT OF GENERAL CONFORMANCE

Statement of General Conformance
FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS,
INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED
DESIGN PROFESSIONALS AND/OR CONSULTANTS

(Application No. 01-117316 File No. 21-C1)

The drawings or sheets listed on the cover or index sheet
 This drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

- design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
- coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344 of Title 24, Part 1. (Title 24, Part 1, Section 4-317 (b))

I find that: All drawings or sheets listed on the cover or index sheet
 This drawing or page

I share in general conformance with the project design intent, and
 I have coordinated with the project plans and specifications.

[Signature] 1-31-2018
 Signature Date

Architect or Engineer designated to be in general responsible charge
DENIS HENMI
 Print Name
 C11009 10/31/19
 License Number Expiration Date

DLR GROUP/KWAN HENMI
 456 MONTGOMERY STREET, SUITE 200
 SAN FRANCISCO, CA 94104

PROJECT NAME: COLLEGE OF MARIN INDIAN VALLEY CAMPUS INTERIM HOUSING
 DLR GROUP PROJECT NO: 75-18802-00
 LETTER OF COMPLIANCE,

THE FOLLOWING MODULAR CLASSROOM BUILDINGS WERE MANUFACTURED BY AMERICAN MODULAR SYSTEMS WERE MANUFACTURED UNDER STOCKPILE A#02-102043, A#02-105665, A#02-107162, AND A#69217.

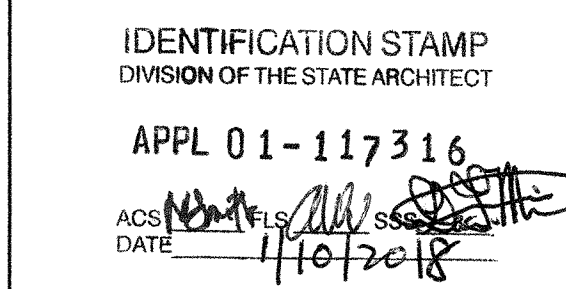
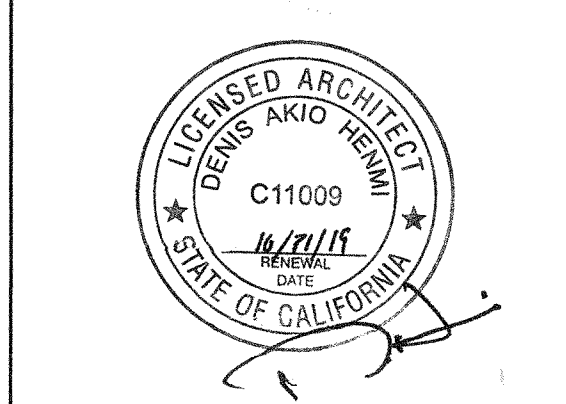
THESE BUILDINGS CONFORM TO THE ORIGINALLY APPROVED PLANS AND SPECIFICATIONS AND HAVE NOT SUFFERED STRUCTURAL DETERIORATION OR BEEN STRUCTURALLY ALTERED PER DSA PL 07-02.

SINCERELY,
 DLR GROUP/KWAN HENMI

[Signature]
 DENIS HENMI,
 PRINCIPAL

RELOCATABLE PC NUMBERS:

RELOCATABLE #1:	A#69217	[LEFT HAND]
RELOCATABLE #2:	A#69217	[RIGHT HAND]
RELOCATABLE #3:	A#69217	[RIGHT HAND]
RELOCATABLE #4:	A#02-102043	[RIGHT HAND]
RELOCATABLE #5:	A#02-105665	[RIGHT HAND]
RELOCATABLE #6:	A#69217	[LEFT HAND]
RELOCATABLE #7:	A#69217	[LEFT HAND]
RELOCATABLE #8:	A#02-107162	[RIGHT HAND]



CBC CHAPTER 7A COMPLIANCE

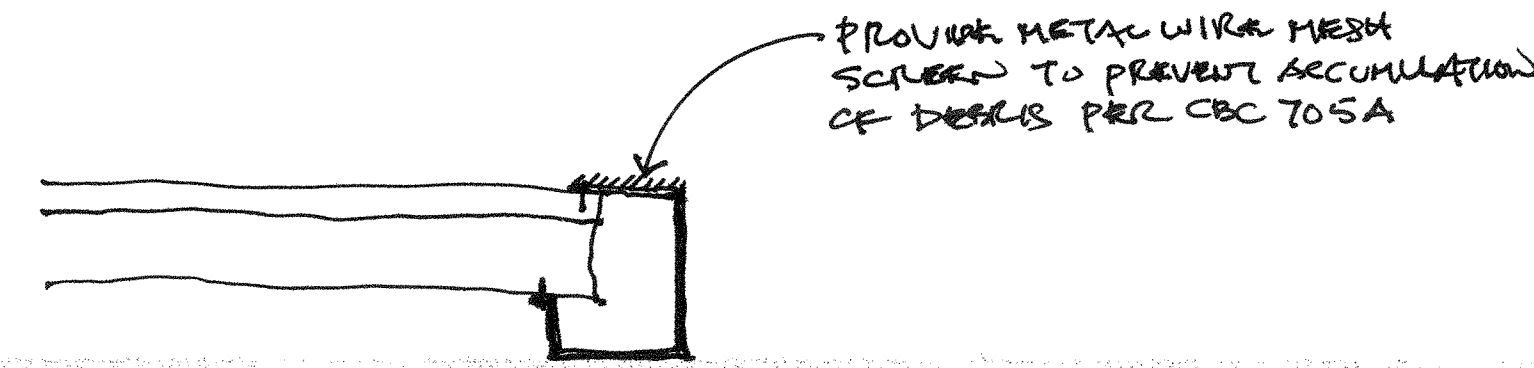
SECTION 703A: EXTERIOR WALL SIDING AND SHEATHING COMPLIES WITH SFM STANDARD 12-7A-1.

SECTION 705A: ROOFING CLASS B COMPLIES WITH REQUIREMENTS OF CHAPTERS 7A AND 15. ROOF GUTTERS SHALL BE PROVIDED WITH METAL WIRE MESH TO PREVENT ACCUMULATION OF DEBRIS. SEE ROOF GUTTER DETAIL BELOW.

SECTION 706A: NO VENTS ARE PROVIDED AT ROOF OVERHANGS. UNDERFLOOR VENTS ARE FULLY COVERED WITH METAL WIRE MESH WITH OPENINGS BETWEEN 1/16" AND 1/8".

SECTION 707A: EXTERIOR COVERING IS DUMATEMP PANEL SIDING - APA 303 PLYWOOD SIDING, NOMINAL 19/32" THICK, COMPLIANT WITH SFM STANDARD 12-7A-1 FOR USE IN WILDLAND URBAN INTERFACE (WUI) ZONE.

SECTION 708A: EXTERIOR DOORS ARE NON-COMBUSTIBLE HOLLOW METAL. EXTERIOR WINDOWS ARE DUAL PANE WITH MINIMUM 1 PANE TEMPERED GLAZING.



ROOF GUTTER DETAIL

N.T.S. SEE ALSO PRE-APPROVED RELOCATABLE DRAWINGS DETAIL L/L FOR ADD'L INFO.

SHEET INDEX

A0.0	GENERAL NOTES, ABBREVIATIONS, AND LEGENDS
A0.1	SHEET INDEX
A1.0	SITE PLAN
A1.1	ENLARGED DETAIL SITE PLAN
C1.0	GRADING PLAN
C2.0	UTILITY PLAN
C3.0	NOTES AND DETAILS
C4.0	CIVIL SPECIFICATIONS
E0.0	ELECTRICAL LEGEND AND ABBREVIATIONS
E0.1	ELECTRICAL SPECIFICATIONS
E1.1	ELECTRICAL SITE PLAN
E3.1	ELECTRICAL POWER PLAN-WEST
E5.1	ELECTRICAL SINGLE LINE DIAGRAM
E9.1	ELECTRICAL DETAILS
T0.0	TECHNOLOGY LEGEND AND ABBREVIATIONS
T1.1	TECHNOLOGY SITE PLAN
T9.1	TECHNOLOGY TYPICAL DETAIL
FA0.0	FIRE ALARM LEGEND AND ABBREVIATIONS
FA0.1	FIRE ALARM SPECIFICATIONS
FA1.1	FIRE ALARM SITE PLAN
FA5.1	FIRE ALARM SINGLE LINE DIAGRAM
FA9.1	FIRE ALARM DETAILS

RELOCATABLE BUILDING PC DRAWINGS

DSA#02-102043
RELOCATABLE

TS-1	T-SHEET
N-1	GENERAL NOTES
1	FLOOR PLAN AND NOTES
2	EXTERIOR ELEVATIONS
3	CEILING GRID, DETAILS, AND NOTES
4	INTERIOR ELEVATIONS AND OPTIONS
S1	FOUNDATION PLAN AND DETAILS
S2	FLOOR FRAMING PLAN AND DETAILS
S2A	BUILDING SECTIONS AND WALL DETAILS
S3	ROOF FRAMING PLANS AND DETAILS
S3A	ROOF FRAMING DETAILS
S4	FRAMING ELEVATIONS AND DETAILS
S5R	RAMP PLAN, ELEVATIONS AND DETAILS
M1	MECHANICAL PLAN & NOTES
E1	ELECTRICAL PLAN & NOTES

DSA#02-105665
RELOCATABLE

TS-1	T-SHEET
N-1	GENERAL NOTES AND SPECIFICATIONS
1	FLOOR PLAN AND NOTES
2	EXTERIOR ELEVATIONS
3	CEILING GRID, DETAILS, AND NOTES
4	INTERIOR ELEVATIONS AND OPTIONS
S1B	WOOD FOUNDATION PLAN & DETAILS 125PSF FLOOR LIVE LOAD
S2	FLOOR FRAMING PLAN AND DETAILS
S2A	BUILDING SECTIONS AND WALL DETAILS
S3	ROOF FRAMING PLAN AND DETAILS
S3A	ROOF SECTIONS AND DETAILS
S4	WALL FRAMING ELEVATIONS AND FRAME DETAILS
S5R	RAMP PLAN, ELEVATIONS AND DETAILS
M1	MECHANICAL PLAN & NOTES
E1	ELECTRICAL PLAN AND NOTES

DSA#02-107162
RELOCATABLE

TS-1	T-SHEET
N-1	GENERAL NOTES AND SPECIFICATIONS
1	FLOOR PLAN & NOTES
1A	FLOOR PLAN & NOTES
1B	FLOOR PLAN & NOTES
2	EXTERIOR ELEVATIONS
2A	EXTERIOR ELEVATIONS
3	CEILING GRID, DETAILS, AND NOTES
3A	CEILING GRID, DETAILS, AND NOTES
3B	CEILING GRID, DETAILS, AND NOTES
4	INTERIOR ELEVATIONS AND OPTIONS
S1	WOOD FOUNDATION PLAN & DETAILS
S1C	50 PSF FLOOR LIVE LOAD WOOD FOUNDATION PLAN & DETAILS 50 PSF FLOOR LIVE LOAD PLUS 20 PSF PARTITION LOAD
S2	FLOOR FRAMING PLAN AND DETAILS
S2A	BUILDING SECTIONS AND WALL DETAILS
S3	ROOF FRAMING PLAN AND DETAILS
S3A	ROOF SECTIONS AND DETAILS
S4	WALL FRAMING ELEVATIONS AND FRAME DETAILS
S5R	RAMP PLAN, ELEVATIONS AND DETAILS

M1	MECHANICAL PLAN & NOTES
M1A	MECHANICAL PLAN & NOTES
M1B	MECHANICAL PLAN & NOTES
M2	ENERGY MANDATORY MEASURES
E1	ELECTRICAL PLAN & NOTES
E1A	ELECTRICAL PLAN & NOTES
E1B	ELECTRICAL PLAN & NOTES

DSA#69217
RELOCATABLE

TS-1	T-SHEET
N-1	GENERAL NOTES
1	FLOOR PLAN & NOTES
2	EXTERIOR ELEVATIONS
3	CEILING GRID, DETAILS, AND NOTES
S1	FOUNDATION PLAN, NOTES, SECTIONS AND DETAILS
S1B	FOUNDATION PLAN, NOTES, AND DETAILS
S2	FLOOR FRAMING PLAN AND DETAILS
S2B	BUILDING SECTIONS AND WALL DETAILS
S3	ROOF FRAMING PLAN AND DETAILS
S4	FRAMING ELEVATIONS AND DETAILS
S5R	RAMP PLAN, ELEVATIONS AND DETAILS
M1	MECHANICAL PLAN AND NOTES
E1	ELECTRICAL PLAN & NOTES

DSA#04-116149
UNIVERSAL FOUNDATION PLANS

F-1	COVER SHEET
F-2	A-NUMBERS
F-3	FOUNDATION PLANS
F-3A	FOUNDATION PLANS
F-4	FOUNDATION PLANS
F-4A	FOUNDATION PLANS
F-5	FOUNDATION PLANS
F-5A	FOUNDATION PLANS
F-6	DETAILS
F-7	GENERAL SPECIFICATIONS/DSA FORM 103
F-8	ADJACENT BUILDINGS
F-9	ADJACENT BUILDINGS



810

LOCAL FIRE AUTHORITY REVIEW

To facilitate the Division of the State Architect's (DSA) approval of the Fire/Life Safety portion of a project, DSA requires Local Fire Authority (LFA) review of certain elements as identified in this form. Use of this form is mandatory for projects that add square footage to a campus or if any item on this form is relevant to the project. For additional information, see DSA 810 Instructions and DSA Policy 09-01.

PROJECT INFORMATION

School District/Owner: COLLEGE OF MARIN
 Project Name/School: INDIAN VALLEY CAMPUS INTERIM HOUSING
 Project Address: 1800 IGNACIO BLVD., NOVATO, CA 94949

LOCAL FIRE AUTHORITY (LFA)

LFA Agency Name: Novato Fire District
 LFA Reviewer Name: Lori Jessell Title: Deputy Fire Marshal
 Email: ljessell@novatofire.org Telephone Number: 415 878-2622
 I have reviewed and responded to the applicable items for this project as listed below.
 Note: Only sign this form when it is imaged onto the site plan. A loose form is not acceptable to DSA.
 LFA Reviewer's Signature: Lori Jessell Date: 10/18

Review Key:	"Y" = Complies with LFA requirements	"N" = Not approved (complete Section 8)	"NA" = Not applicable to the project	"NR" = LFA elects not to review
Description	Y	N	NA	NR
1 Where an elevator does not meet medical emergency service cab size, per the California Building Code (CBC), use of stairways for emergency rescue and patient transport is acceptable.			X	
2 Access roads, fire lane markings, pavers and gate entrances are in accordance with Title 19, California Code of Regulations and the California Fire Code, Chapter 5.	X			
3 Fire hydrant location and distribution complies with the California Fire Code (or see # 4).	X			
4 Fire hydrant location and distribution complies with NFPA 1142, "Alternate Means." If "NR" is checked, DSA can only approve on-site water storage as an alternate. The signature of the school district official is required to acknowledge the use of alternate means.			X	
Signature of School District Official: _____ Date: _____				
Print the School District Official's Name: _____				
5 The location(s) of the proposed post indicator valve and fire department connection meet the requirements of this jurisdiction.			X	
6 The location(s) of the detector check valve assembly meet the requirements of this jurisdiction.			X	
7 Is the project located in a hazard severity zone area? (CBC, Chapter 7A, Section 701A.1) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Check type if "Yes": <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> High <input type="checkbox"/> Very High <input type="checkbox"/> WIFA (If one of these boxes is checked, the project design must meet the requirements of Chapter 7A.)				
8 COMMENTS (note deficiencies): * Fire Sprinklers required for project if buildings remain on site for more than 3 years.				

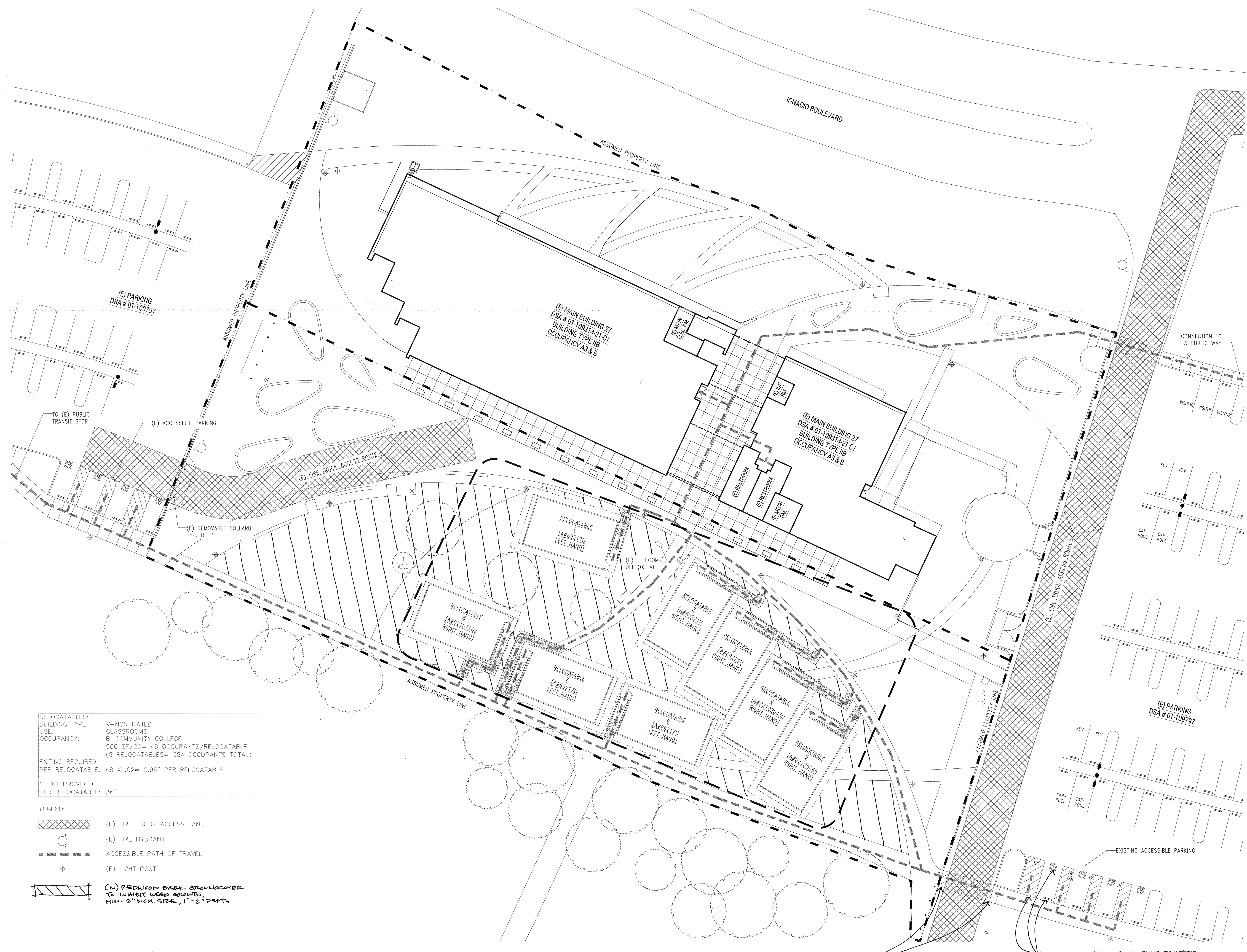


IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
DATE: 11/10/18

DSA SUBMITTAL 01/10/2018



IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
DATE: 01/11/18



RELOCATABLES:
BUILDING TYPE: V-NON RATED
USE: CLASSROOMS
OCCUPANCY: B-COMMUNITY COLLEGE
960 SF/20= 48 OCCUPANTS/RELOCATABLE
(8 RELOCATABLES= 384 OCCUPANTS TOTAL)
EXITING REQUIRED
PER RELOCATABLE: 48 X .02= 0.96" PER RELOCATABLE
1 EXIT PROVIDED
PER RELOCATABLE: 36"

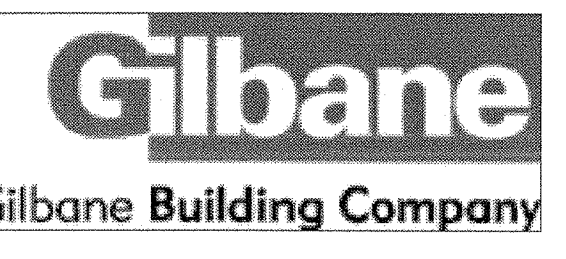
LEGEND:
 (E) FIRE TRUCK ACCESS LANE
 (E) FIRE HYDRANT
 ACCESSIBLE PATH OF TRAVEL
 (E) LIGHT POST
 (N) REDUCED GRADE GROUND COVER TO INHIBIT WEED GROWTH, MIN. 2" NOM. SIZE, 1"-2" DEPTH

1 SITE PLAN
1/32" = 1'-0"

FIELD VERIFY EXISTING
DETECTABLE WARNING
OR PROVIDE NEW

FIELD VERIFY EXISTING BLUE PRINTED
STIPING AND UNIVERSAL ACCESS SYMBOL
OR PROVIDE NEW, TYP. PROVIDE ACCESSIBLE
PARKING & MIN. \$250 FINE SIGN.

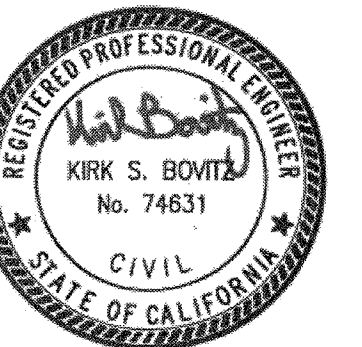




DLR Group | KwanHemmi

CSW ST 2

**CSW/Stubbs-Stroth
Engineering Group, Inc.**
45 Lowell Court, Suite 415
Novato, CA 94949
Tel: 415.883.8800
Fax: 415.883.8835
Civil & Structural Engineers
Surveying & Mapping
Environmental Planning
Land Planning
Construction Management
http://www.cswst.com



IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
Kirk S. Bovi, P.E.
DATE 01/10/18

DSA SUBMITTAL 01/10/2018

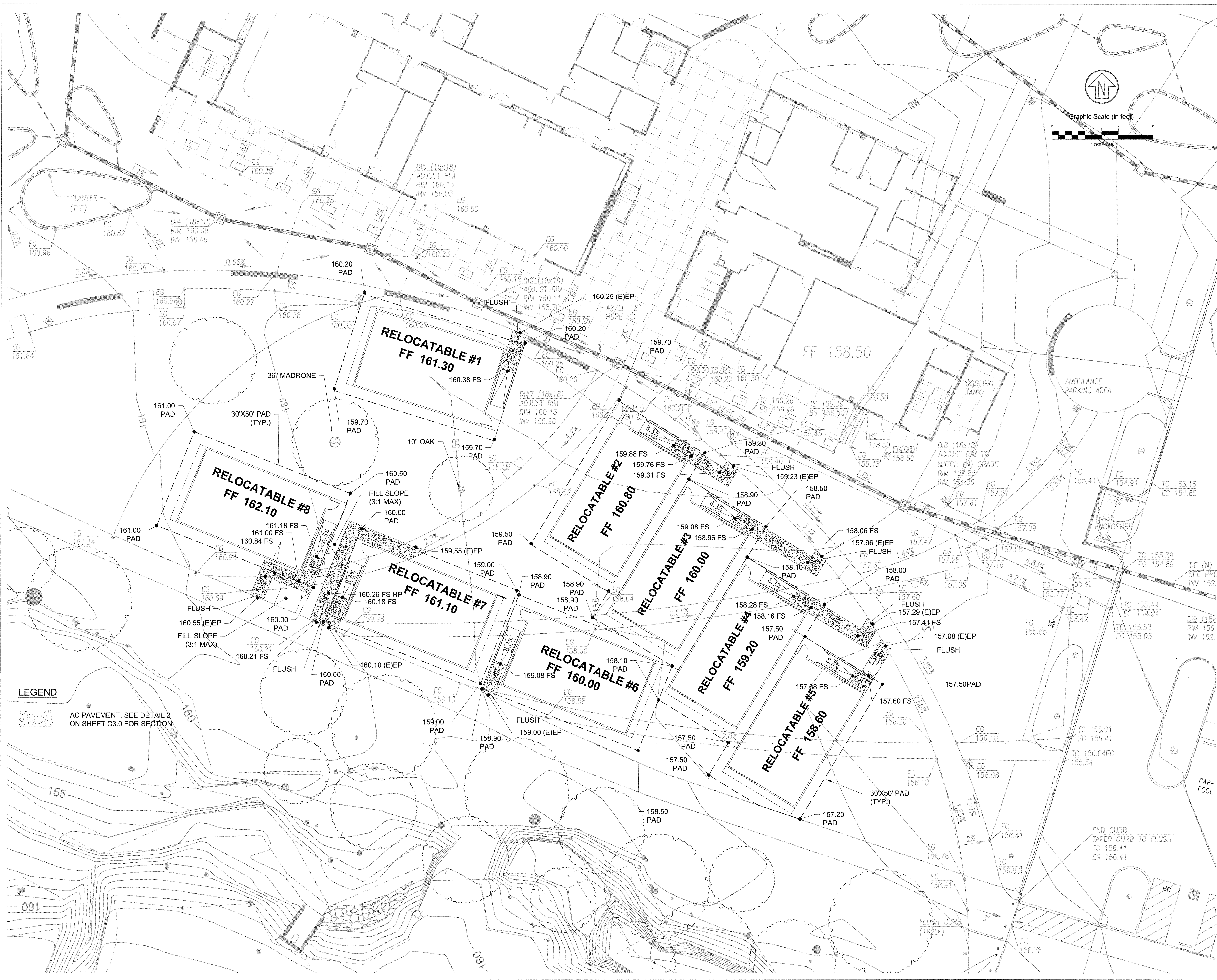
REV.	DATE	ISSUE

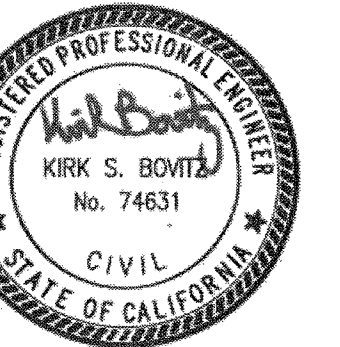
COLLEGE OF MARIN
INTERIM HOUSING

Dist'd Project # 125-35612
AE Project # 75-18802 date: 01/10/18
drawn by: checked by:
scale: 1" = 10'

GRADING PLAN

C.10





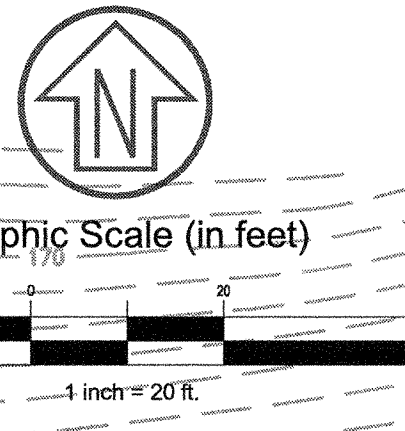
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
ACS FLS/SSS D.M.
DATE 11/10/18

DSA SUBMITTAL 01/10/2018

COLLEGE OF MARIN
INTERIM HOUSING

Deleted Project # 125-35612
AE Project # 75-18802 date: 01/10/18
drawn by: checked by:
scale: 1" = 20'
UTILITY PLAN

C2.0



GENERAL NOTES

- WORK SHOWN HEREON SHALL BE DONE IN ACCORDANCE WITH THE DISTRICT STANDARD CONSTRUCTION PLANS AND SPECIFICATIONS, LATEST EDITION, THE STANDARD SPECIFICATIONS FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, AND LOCAL UTILITY AGENCY STANDARD PLANS AND SPECIFICATIONS AS APPLICABLE, LATEST EDITION.
- THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
- CONTRACTOR SHALL HOLD HARMLESS THE DISTRICT AND ITS AUTHORIZED REPRESENTATIVES FROM ALL LIABILITIES AND DAMAGES RESULTING FROM HIS CONSTRUCTION OPERATIONS.
- PRIOR TO COMMENCING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL VERIFY ALL INTERFACES BETWEEN EXISTING CONDITIONS AND NEW CONSTRUCTION FOR GRADING, DRAINAGE, UNDERGROUND, AND OVERHEAD FACILITIES, INCLUDING LOCATION AND ELEVATION OF EXISTING UNDERGROUND OR AT GRADE FACILITIES AT CROSSINGS WITH PROPOSED UNDERGROUND FACILITIES. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION OPERATIONS UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL CONTRACT DOCUMENTS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE.
- THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS, WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR.
- THE CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING UNDERGROUND, AT-GRADE OR OVERHEAD IMPROVEMENTS DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE DISTRICT, INCLUDING PERMANENT TRENCH RESURFACING.
- TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST "MANUAL OF TRAFFIC CONTROL" PUBLISHED BY THE CALIFORNIA DEPARTMENT OF TRANSPORTATION. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE DISTRICT FOR APPROVAL PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OPERATIONS.
- CONTRACTOR TO BE AWARE OF AND PROTECT ALL OVERHEAD LINES AT ALL TIMES, SO AS NOT TO DISTURB THEM.
- WATER SHALL BE PROVIDED ONSITE BY THE CONTRACTOR AND USED TO CONTROL DUST DURING CONSTRUCTION OPERATIONS.
- CONTRACTOR SHALL COMPLY FULLY WITH THE REQUIREMENTS OF ASSEMBLY BILL 2040, DAVIS, ASBESTOS.
- IF SIGNIFICANT CULTURAL MATERIALS ARE EXPOSED OR DISCOVERED DURING EITHER SITE CLEARING OR SUBSURFACE CONSTRUCTION, ALL OPERATIONS SHOULD STOP WITHIN 25 FEET OF THE FIND AND A QUALIFIED PROFESSIONAL ARCHAEOLOGIST CONTACTED FOR FURTHER REVIEW AND RECOMMENDATIONS. POTENTIAL RECOMMENDATIONS COULD INCLUDE EVALUATION, COLLECTION, RECORDATION, ANALYSIS, ETC. OF ANY SIGNIFICANT CULTURAL MATERIALS FOLLOWED BY PREPARATION OF A PROFESSIONAL REPORT. THE CONTRACTOR SHALL NOTIFY THE DISTRICT AND THE OTHER GOVERNING JURISDICTION OF ANY DISCOVERIES.
- SIGNIFICANT PREHISTORIC CULTURAL RESOURCES ARE DEFINED AS HUMAN BURIALS, FEATURES OR OTHER CLUSTERING OF FINDS MADE, MODIFIED OR USED BY NATIVE AMERICAN PEOPLES IN THE PAST. THE PREHISTORIC AND PROHISTORIC INDICATORS OF PRIOR CULTURAL OCCUPATION BY NATIVE AMERICANS INCLUDE ARTIFACTS AND HUMAN BONE, AS WELL AS SOIL DISCOLORATION, SHELL, ANIMAL BONE, SANDSTONE COBBLES, ASHY AREAS, AND BAKED OR VITRIFIED CLAYS.
- ALL MASS GRADING SHALL BE PERFORMED UNDER THE STRICT SUPERVISION OF THE PROJECT GEOTECHNICAL ENGINEER, AND SHALL BE IN CONFORMANCE WITH THE SITE SPECIFIC GEOTECHNICAL REPORT. MASS GRADING SHALL INCLUDE DEMOLITION, CLEARING AND GRUBBING, TREE REMOVAL, REMEDIAL GRADING (BUTTRESSING, KEYWAYS, SUBDRAINS), SUB-EXCAVATION AND COMPACTION OF FILL AREAS, CUTTING HIGH AREAS AND STREETS, PLACING AND COMPACTION OF FILL ON LOW AREAS AND STREETS, HAUL, ROAD CONSTRUCTION AND REMOVAL, FINISHED GRADING OF SITE TO A TOLERANCE OF ± 0.1 FEET, UNDER-CUTTING OF STREETS SUFFICIENT TO ACCOMMODATE UTILITY SPOILS, HAULING, PLACEMENT, COMPACTION OR STOCKPILING OF UTILITY SPOILS AS REQUIRED, IMPORT, PLACEMENT AND COMPACTION OF SOILS AS REQUIRED TO BALANCE THE SITE AND EXCAVATION FOR MASONRY.
- IF, AT ANY TIME DURING GRADING OPERATIONS, ANY UNFAVORABLE GEOLOGICAL CONDITIONS ARE ENCOUNTERED, GRADING IN THAT AREA WILL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED.
- ALL DEBRIS, EXCESS, AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED DISPOSAL SITES AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION OF MATERIAL TO AND FROM THE SITE.
- ALL FILL SOILS OR SOILS DISTURBED OR OVER-EXCAVATED DURING CONSTRUCTION SHALL BE COMPACTED PER THE REQUIREMENTS OF THE SOIL REPORT BUT NOT LESS THAN 90% MAXIMUM DENSITY AS DETERMINED BY A.S.T.M. SOIL COMPACTION TEST D-1557.
- ALL GRADED BANK TOPS AND TOES SHALL BE ROUNDED.
- THE PROPOSED GRADE AS SHOWN IN THE DRAWINGS IS THE FINISH GRADE AND NOT THE ROUGH GRADE. THE CONTRACTOR SHALL BE RESPONSIBLE TO ACCOMMODATE FOR THE THICKNESS OF THE TOP SECTIONS (ROADWAY, CONCRETE, TOPSOIL, ETC.) TO ARRIVE AT THE ROUGH GRADE ELEVATION. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL ADJUSTMENTS TO ACCOMMODATE TRENCH OR FOUNDATION SPOILS, OR ITEMS AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- STRAIGHT GRADE SHALL BE MAINTAINED BETWEEN CONTOUR LINES AND SPOT ELEVATIONS UNLESS OTHERWISE SHOWN ON THE PLANS.
- ALL RAMPS AND OTHER ACCESSIBILITY ACCOMMODATIONS ARE INTENDED TO COMPLY WITH THE CURRENT STANDARDS UNDER THE AMERICANS WITH DISABILITIES ACT. THE CONTRACTOR SHALL NOTIFY THE CIVIL ENGINEER IF ANY PROPOSED IMPROVEMENTS ARE NOT CONSISTENT WITH THE STANDARDS.
- ALL STREETS SHALL BE SWEEPED AND KEPT CLEAN AT THE END OF EACH DAY AND SHALL COMPLY WITH ALL APPLICABLE RWOCB REQUIREMENTS FOR THE DURATION OF THE PROJECT WORK.
- THE CONTRACTOR SHALL OBTAIN AN O.S.H.A. PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE 5' OR DEEPER. ALL TRENCHES 5' IN DEPTH OR GREATER SHALL BE SHORED AND BRACED ACCORDING TO STATE LAW.
- UTILITIES AS SHOWN CONFORM TO AVAILABLE RECORD DATA. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION AND DEPTHS BY POT-HOLING OF ALL UTILITIES WITH APPROPRIATE AGENCIES, AND TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE AGENCY AND TO THE CIVIL ENGINEER.
- IT SHALL BE THE PAVING CONTRACTOR'S RESPONSIBILITY TO RESTORE STREET AND SIDEWALK SUBGRADES DISTURBED DURING UNDERGROUND UTILITY CONSTRUCTION. ALL EXISTING STREET IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE DISTRICT.
- ALL CURB DIMENSIONS AND RADII ARE TO FACE OF CURB.
- CONTRACTOR SHALL NOTIFY PROJECT MANAGER 48 HOURS PRIOR TO ANY NEED FOR FORMWORK REVIEW AND APPROVAL.
- CONTRACTOR SHALL PERFORM WATER TESTS AT ALL GUTTERS LESS THAN 1% SLOPE AND AT SAGS.
- ASPHALT PAVEMENT SHALL BE CONSTRUCTED IN AT LEAST TWO LIFTS, AND THE SECOND LIFT SHALL BE A MINIMUM OF 2 INCHES AND SHALL BE PLACED ONLY AFTER THE CONSTRUCTION OF SITE IMPROVEMENTS AND BUILDING CONSTRUCTION HAVE BEEN SUBSTANTIALLY COMPLETED. THE FINAL PAVEMENT SURFACE SHALL BE FREE OF GOUGES, PATCHES, OR OTHER DEFECTS TO THE SATISFACTION OF THE DISTRICT PRIOR TO ACCEPTANCE OF SITE IMPROVEMENTS.
- A.C. STREET AND DRIVEWAY STRUCTURAL SECTIONS ARE APPROXIMATE ONLY. EXACT SECTIONS WILL BE DETERMINED SUBSEQUENT TO ROUGH GRADING AND WILL BE BASED ON THE R-VALUE AS DETERMINED BY THE GEOTECHNICAL ENGINEER AND A T.I. AS INDICATED ON TYPICAL SECTIONS. CONTRACTOR SHALL ALLOW TIME AFTER SUBGRADE IS EXPOSED FOR SAMPLES TO BE TAKEN AND AN R-VALUE TEST TO BE PERFORMED PRIOR TO FINAL SUBGRADE PREPARATION AND PAVEMENT SECTION CONSTRUCTION.
- TREE PROTECTION FENCING SHALL BE PLACED ONE FOOT BEYOND DRIFLINE OR AS DIRECTED BY THE ARBORIST. WHERE NOT POSSIBLE, OR AS DIRECTED BY THE ARBORIST, FENCING MUST BE LOCATED PRACTICALLY AND IN A MANNER WHICH ALLOWS THE REQUIRED GRADING AND CONSTRUCTION TO OCCUR. IN NO CASE, SHALL FENCING BE PLACED CLOSER THAN 5 FEET TO THE TREE TRUNK. TREES LOCATED NEXT TO

- PROPOSED RETAINING WALLS SHOULD HAVE THEIR TRUNKS PROTECTED BY STRAPPING STRAW BALES AROUND THE TRUNK TO PREVENT ACCIDENTAL DAMAGE FROM EXCAVATION EQUIPMENT. MITIGATION MEASURES SUCH AS IRRIGATION, CHIPPED BARK MULCHES, AND SCARIFICATION OF THE SOIL SURFACE AFTER CONSTRUCTION MAY HELP TO PARTIALLY COMPENSATE FOR SOME FORM OF CONSTRUCTION IMPACT, AND SHOULD BE UTILIZED PER ARBORIST'S RECOMMENDATIONS.
- THE ARBORIST SHALL BE NOTIFIED BY CONTRACTOR 48 HOURS AHEAD OF GRADING TO REVIEW THAT TREE PROTECTION MEASURES ARE ADEQUATELY INSTALLED. ADDITIONALLY THE ARBORIST SHALL BE PRESENT WHEN GRADING WITHIN THE DRIFLINES OF TREES.
 - TREES TO BE REMOVED OR RELOCATED ARE IDENTIFIED ON GRADING PLANS. SEE ARBORIST'S RECOMMENDATIONS FOR RELOCATION PROCEDURES AND NEW LOCATIONS FOR TREES IDENTIFIED AS RELOCATED.
 - THE LOCATION OF SYMBOLS SHOWN ON THE DRAWINGS MAY NOT REPRESENT THE PRECISE LOCATION OF THE PROPOSED IMPROVEMENT. IF THE SYMBOL IS NOT ACCOMPANIED BY DIMENSIONS TO LOCATE THE PRECISE LOCATION OF THE PROPOSED IMPROVEMENT, REFER TO STANDARD DETAILS SHOWN WITHIN THE DRAWINGS OR APPROPRIATE AGENCY STANDARD DETAILS.

GRADING QUANTITIES

CUT: 0 CUBIC YARDS
 FILL: 96 CUBIC YARDS
 NET: 96 CUBIC YARDS OF IMPORT

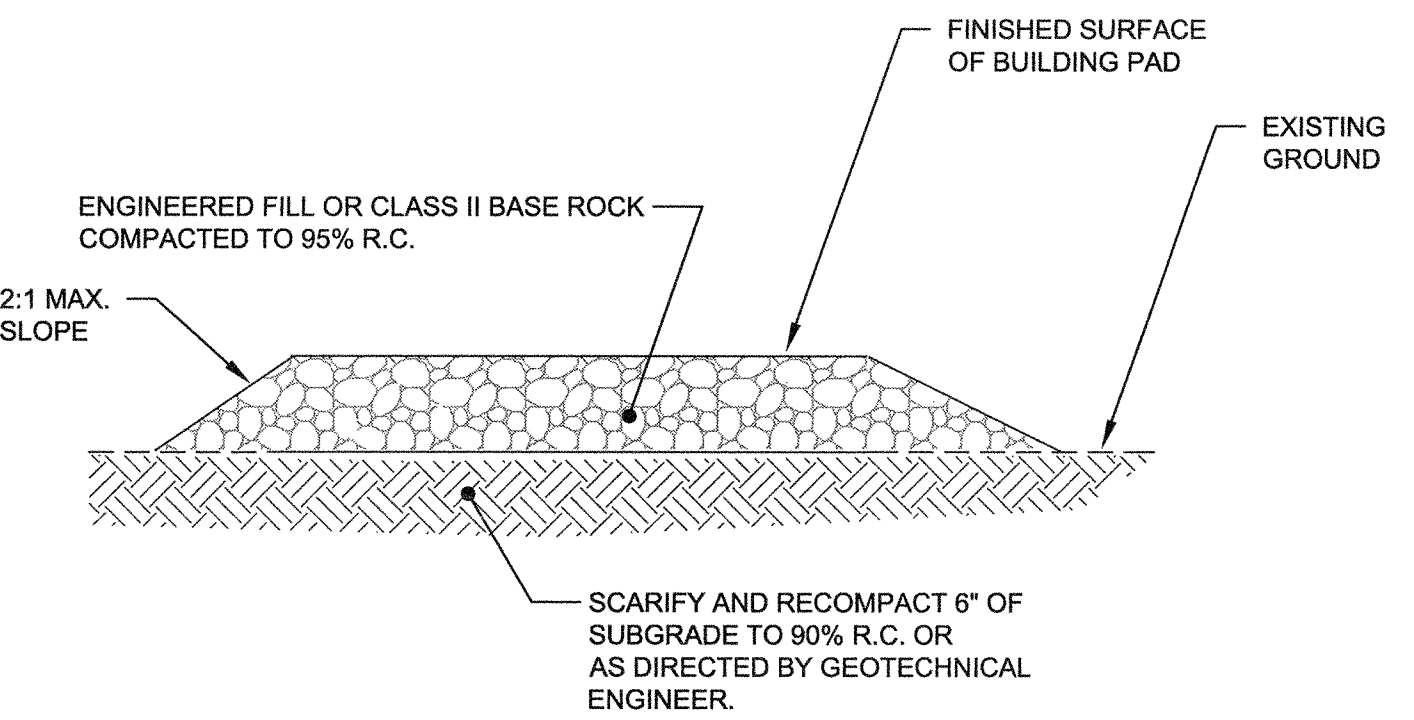
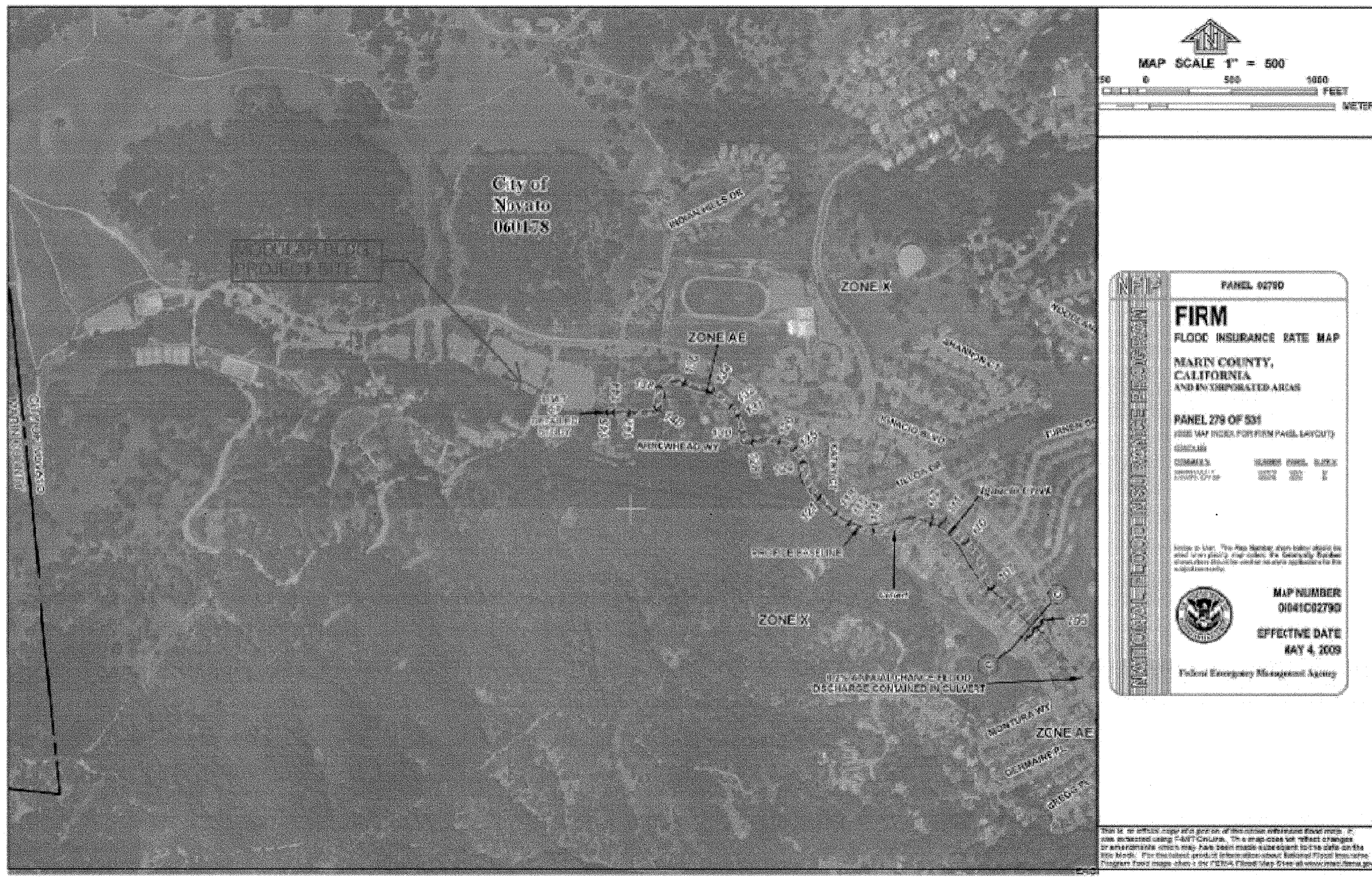
- PROPOSED FINISH GRADE IS DEFINED AS THE FINAL GRADE AS INDICATED ON THE GRADING PLAN.
- THE EARTHWORK QUANTITIES ABOVE HAVE NOT BEEN ADJUSTED TO ACCOUNT FOR:
 - THICKNESS OF THE PAVEMENT SECTION
 - SLABS
 - FOOTINGS
 - TRENCH SPOILS
 - CLEARING AND GRUBBING INCLUDING REMOVAL OF EXISTING PAVEMENT SECTIONS OR UNACCEPTABLE SOILS
 - BULKING OR SHRINKAGE
 - OVER-EXCAVATION AND RE-COMPACTION
 - TOPSOIL
 - CONSTRUCTION METHODS
- THE CONTRACTOR SHALL RELY ON THEIR EARTHWORK ESTIMATES FOR BIDDING PURPOSES.
- THE EARTHWORK QUANTITIES ABOVE ARE FOR PERMIT PURPOSES ONLY.

SURVEY NOTES

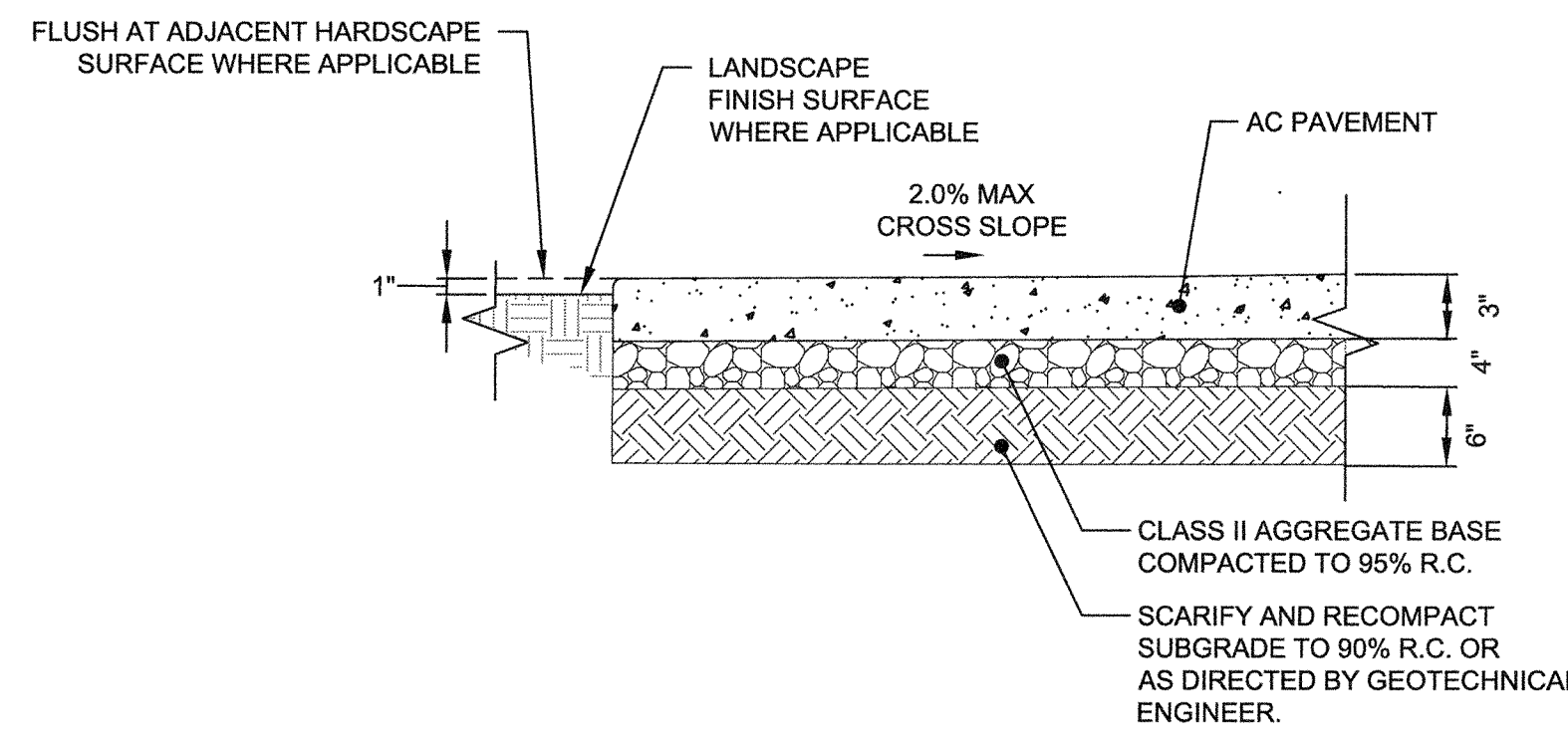
- EXISTING TOPOGRAPHY SHOWN OUTSIDE THE PROJECT AREA WAS TAKEN FROM AN AERIAL SURVEY PROVIDED BY THE DISTRICT AND DATED MAY 2005. EXISTING TOPOGRAPHY AND SPOT ELEVATIONS SHOWN WITHIN THE PROJECT AREA WERE TAKEN FROM THE DESIGN GRADES OF THE "MAIN BUILDING COMPLEX" PROJECT DATED 7/23/08, DSA #01-109314-0. IF THE EXISTING SPOT ELEVATIONS WITHIN THE PROJECT AREA DIFFER FROM ACTUAL ELEVATIONS, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER FOR EVALUATION PRIOR TO GRADING OR FORMWORK.

FEMA NOTES

- THE PROJECT IS LOCATED IN FEMA ZONE X (OUTSIDE 100-YR FLOOD) AS SHOWN ON FEMA MAP NUMBER 06041C0279D, DATED MAY 4, 2009. SEE MAP BELOW



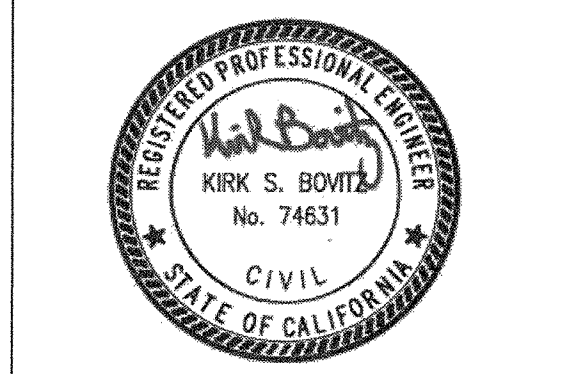
1 BUILDING PAD SECTION
 SCALE: 1" = 1'



2 PEDESTRIAN PATH PAVEMENT SECTION
 SCALE: 1" = 1'



CSW ST2
 CSW/Stuber-Stroh Engineering Group, Inc.
 45 Lombard Court, Novato, CA 94949
 Civil & Structural Engineers, Surveying & Mapping, Environmental Planning, Land Planning, Construction Management



IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 APPL 01-117316
 DATE 11/01/18

DSA SUBMITTAL 01/10/2018

COLLEGE OF MARIN INTERIM HOUSING

Project # 125-35612
 AE Project # 75-18802 date: 01/10/18
 drawn by: checked by:
 scale: 1" = 20'

NOTES AND DETAILS
C3.0

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Specifications for the demolition and removal of structures, including backfilling of resultant excavations and depressions, as indicated.
B. Extent of demolition work shall be as follows:
1. Buildings and structures, foundations, and foundation systems shall be completely removed to the base of the foundation.
2. Utility services to facilities to be removed or demolished shall be disconnected, cut, and capped.
C. Restoration of existing structures and facilities to remain in place which are damaged by demolition and removal operations.

1.02 RELATED SECTIONS

- A. Section 31 10 00 - Site Clearing
B. Section 01 50 00 - Temporary Facilities and Controls

1.03 REFERENCES

- A. American National Standards Institute (ANSI)/ANSI A10.6 Safety Requirements for Demolition Operations
B. California Code of Regulations (CCR)
CCR Title 8, Chapter 4, Subchapter 4 - Construction Safety Orders
CCR Title 24, Part 2, California Building Code, Chapter 33, Section 3303, Protection of Pedestrians during Construction or Demolition

1.04 PERMITS

- A. Obtain all special permits and licenses and give all notices required for performance and completion of the demolition and removal work, hauling, and disposal of debris.

1.05 SUBMITTALS

- A. Demolition Plan
1. Submit a comprehensive demolition plan, describing the proposed sequence, methods, and equipment for demolition, removal, and disposal of structure(s); include salvage if required. Do not proceed with demolition until the designated approval authority has approved the demolition plan.
B. Shop Drawings
1. Include drawings in plan of all structures to be demolished. Indicate stages or phases of the demolition work.
C. Permits
1. Submit copies of demolition, hauling, and debris disposal permits and notices for record purposes. Include description of proposed haul routes.

1.06 WASTE DISPOSAL AND RECYCLING

- A. The District has implemented strict recycling and waste management policies for all waste materials removed from his property as a result of construction and demolition activity. These include:
Asphalt
Concrete, concrete block, concrete masonry units (CMU), slump stone (decorative concrete block), and rocks
Asphalt Concrete
Brick
Paper, including bond, newsprint, cardboard, mixed paper, packing materials, and packaging
Cement Fiber Products, including shingles, panels, siding
Paint
Rigid Foam
Glass
Plastics
Carpet and Pad
Beverage Containers
Insulation
Gypsum Wallboard
Porcelain Plumbing Fixtures
Fluorescent Light Tubes, per local Sanitary Service regulations
Green materials (i.e., tree trimmings and land clearing debris)
Metals including, but not limited to, stud trim, ductwork, piping, reinforcing steel (rebar), roofing, other trim, steel, iron, galvanized sheet steel, stainless steel, aluminum, copper, zinc, lead, brass, and bronze (ferrous and non-ferrous)
Soils
Wood, including clean dimensional wood, pallet wood, plywood, oriented strand board (OSB), particleboard
B. The goal of this program is to earn credits towards "LEED Certification" by meeting or exceeding credit's technical requirements. Regarding Section 02 40 00, the "Material and Resources" section of the LEED Rating System (latest version - US Green Building Council) shall be followed.
C. The successful bidder will be required to account for all waste materials removed from the Project, and to recycle, salvage, or reuse, to the maximum practicable extent, all of the materials listed above. If the successful bidder believes that recycling, salvage, or reuse of any of these materials is impracticable, the bidder must so inform the District before initiation of the Project, and secure District's written authorization for an alternative method of disposal.
D. The successful bidder will be required to develop and maintain a plan which documents procedures to recycle, salvage, or reuse the materials listed above, including separation and recycling procedures and markets for each material recovered. This plan must also address training and communications, recordkeeping, and reporting requirements to assure that all waste materials are accounted for. As the project proceeds, this plan is to be updated with the quantities of each waste that are actually reused, salvaged, recycled, or disposed of, and the markets to which these materials are directed, so that it provides documentation in a single source of waste management performance on the Project.
E. The District retains the right to inspect, and subsequently approve or disapprove any and all recycling end markets, reuse or salvage outlets, and/or waste disposal facilities that are involved in the receipt of recyclables and/or waste materials generated from the Project. Disapproval of such a market or outlet may be based on past or current violations of federal or state environmental, health, or safety laws, improper disposal activities, risk or liability exposure, or any other reason deemed sufficient by the District.
F. The successful bidder shall maintain records for each type of material removed from the job site (including materials that are not recycled), provided the name(s) of specific end destinations for all materials removed (whether recycled or disposed of), and provide weights and measures of all materials removed. Every load of waste material must be weighed and these scale weights must be reported to the District on a monthly basis, retaining material types and net weights. The District retains the right to certify weights of sample loads of materials leaving the project site, and compare these to the weights submitted by the successful bidder. The District retains the right to request copies of original scale tickets for any and all materials removed from the Project up to two (2) years following the project completion.

1.07 SITE CONDITIONS

- A. Erect and maintain temporary bracing, shoring, lights, barricades, signs, and other measures as necessary to protect the public, workers, and adjoining property from damage from demolition work, all in accordance with applicable codes and regulations.
B. Open depressions and excavations occurring as part of this work shall be barricaded and posted with warning lights when accessible through adjacent property or through public access. Operate warning lights during hours from dusk to dawn each day and as otherwise required.
C. Protect utilities, pavements, and facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by demolition operations.
D. Protection of Utilities: Protect active sewer, water, gas, electric, and other utilities; and drainage and irrigation lines indicated or, when not indicated, found or otherwise made known to the Contractor before or during demolition work.
E. Maintain existing utilities and protect from damage as necessary to satisfy the requirements of jurisdictional utility companies and related codes and regulations.
F. Make arrangements with affected utility companies and Districts to provide the information and services necessary to coordinate and complete the work.
G. Do not disconnect or shut down any part of the existing utilities and services, except by permission of authorities having jurisdiction. Submit schedule of estimated shut-down time in order to obtain such permission, and notify all interested parties, neighbors, utilities, and municipal and county authorities, as required.
H. Utilities to be removed shall not be removed until shut-down time can be kept to a minimum. Do not remove an existing utility line or service until the replacement line, crossover, or capping is ready to be performed.
I. Notify the Engineer and utility Districts 72 hours before performing any excavation work. Notify affected utilities by calling Underground Service Alert (USA) at 1-800-227-2900. Contact utility Districts not covered by USA, by calling the affected utility Districts directly.
J. Protect active underground utilities from damage. If underground utilities are damaged in any way, notify the Engineer and affected utilities immediately for corrective action.
K. Noise and Dust Abatement: Comply with requirements specified in Section 01 50 00 - Temporary Facilities and Controls. In addition, provide continuous noise and dust abatement as required to prevent disturbance and nuisance to the public and workers and to the occupants of adjacent premises and surrounding areas. Dampen or cover areas affected by demolition operations as necessary to prevent dust nuisance.
L. The Contract Drawings and related documents may not represent all surface conditions at the site and adjoining areas. The known surface conditions are as indicated, and shall be compared with actual conditions before commencement of work.
M. Existing utilities and drainage systems below grade are located from existing documents and from surface facilities such as manholes, valve boxes, area drains, and other such surface fixtures.

- N. If existing active services encountered are not indicated or otherwise made known to the Contractor and interfere with the permanent facilities under construction, notify the Engineer in writing, requesting instructions on their construction. Take immediate steps to ensure that the service provided is not interrupted, and do not proceed with the work until written instructions are received from the Engineer.
O. Thicknesses of existing pavements are from previous construction documents, and do not imply the actual depth or thickness of the total pavement or base material, or where it occurs. Remove pavement of whatever thickness as required.

PART 2 - PRODUCTS

- A. Furnish all materials, tools, equipment, devices, apparatuses, facilities, and services as required for performing the demolition and removal work.

PART 3 - EXECUTION

3.01 PRESERVATION OF REFERENCE MARKERS

- A. Record the locations and designation of survey markers and monuments prior to their removal. Provide three reference points for each survey marker and monument removed, established by a licensed civil engineer or land surveyor currently registered in the State of California.
B. Store removed markers and monuments during demolition work, and replace them upon completion of the work. Re-establish survey markers and monuments in conformance with the recorded reference points. Forward to the Engineer a letter verifying re-establishment of survey markers and monuments, signed by a licensed civil engineer or land surveyor currently registered in the State of California.

3.02 DEMOLITION

- A. Perform demolition in accordance with the approved Demolition Plan.
B. Operational procedures shall be in accordance with the approved Demolition Plan.
C. Demolish concrete and masonry in small sections. Perform demolition with small tools as much as possible. Blasting will not be permitted.
D. Cap or plug sanitary sewer in accordance with the utility District's standard details and instructions. Cap and plug pipe and other conduits abandoned due to demolition, with approved type caps and plugs as required by the utility Districts.
E. Backfill and compact depressions caused by excavations, demolition, and removal in accordance with the requirements of Section 31 20 00 - Earth Moving.

3.03 RESTORATION OF EXISTING STRUCTURES AND FACILITIES

- A. All damage to existing structures and facilities, including utilities, which are to remain in place, shall be repaired to a condition equal to that existing prior to the beginning of demolition and removal operations. The cost of repairing existing structures and facilities damaged by the Contractor's operations shall be at the Contractor's expense.

3.04 CLEANUP

- A. Provide a clean and orderly site.

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Specifications for the excavation, filling, recompacting, grading and disposal of excess material.

1.02 RELATED SECTIONS

- A. Section 31 23 19 - Dewatering
B. Section 31 23 33 - Trenching and Backfilling
C. Section 32 11 23 - Aggregate Base

1.03 REFERENCES

- A. ASTM C136-84a - Standard Method for Sieve Analysis of Fine and Coarse Aggregate
B. ASTM D1557 - Laboratory Compaction Characteristics of Soil Using Modified Effort
C. ASTM D2922 - Density of Soil and Soil-Aggregate in Place by Nuclear Methods
D. Caltrans - State of California Standard Specifications; latest edition
E. Geotechnical Report - Geotechnical Report prepared by Terracon Consultants is available for review at the District.

1.04 DEFINITIONS

- A. Compaction
1. The degree of compaction is specified as percent compaction. Maximum densities refer to the maximum laboratory dry unit densities obtained at optimum moisture content as determined by ASTM D1557.
2. Percent compaction (relative compaction) is the ratio of the measured field dry density to the laboratory maximum dry density.
B. Excavation Slope: Excavation slope shall be defined as an inclined surface formed by removing material from below existing grade.

1.05 SUBMITTALS

- A. Product Data
1. Fill materials
2. Source of concrete and aggregate for approval
B. Test Reports
1. Gradation (ASTM C136)
2. Density-in-Place (ASTM D2922)

PART 2 - PRODUCTS

2.01 FILL MATERIALS

- A. Class 2 Aggregate Base
1. Class 2 aggregate base for subsequent backfill and/or pavement base to be 3/4 inches maximum Class 2 aggregate base conforming to Caltrans, Section 26
B. Engineered Fill Material: Soil excavated from site.
1. Imported materials should have a plasticity index not less than 5 nor greater than 15, as determined by ASTM D4318; and expansion index not exceeding 20, as determined by UBC Specification 29-2 and a particle size not exceeding 3 inches as determined by ASTM D422.
C. Imported Fill Requirements: Imported fill, where required, shall be non expansive granular soil, free of organic matter and deleterious substances. Imported fill material shall conform to the following requirements:
1. Gradings
U.S. Sieve Size Percentage Passing Sieve
2 1/2 inch 100
No. 8 25-45
No. 200 10-10
D. Finish Grading
1. Finish surfaces shall be smooth, compacted and free from irregularities. The degree of finish shall be that normally obtainable with a blade-grader.
2. Finish grades shall be as specified on the plans, except where a local change in elevation is required to match existing conditions, or to ensure proper drainage.
3. When the work is at an intermediate stage of completion, lines and grades shall be as specified within 0.5 foot or as necessary to provide adequate drainage.

PART 3 - EXECUTION

3.01 CONSTRUCTION

- A. Surplus Material
1. Unless otherwise specified, surplus excavated material shall be disposed of off site in accordance with applicable ordinances and environment requirements at the expense of the Contractor.
B. Hauling
1. When hauling is down over highways or city streets, loads shall be trimmed and the vehicle shelf areas shall be cleaned after each loading.
2. Loads shall be watered after trimming to eliminate dust.
C. Subgrade
1. Unless directed otherwise on the drawings, existing subgrade shall be compacted to 90% RC, 12" in depth, prior to placement of base material.
2. Subgrade shall be inspected for compliance to the soils report by the District/Geotechnical engineer prior to filling or on achieving final cut depth.
D. Finish Grading
1. Finish surfaces shall be smooth, compacted and free from irregularities. The degree of finish shall be that normally obtainable with a blade-grader.
2. Finish grades shall be as specified on the plans, except where a local change in elevation is required to match existing conditions, or to ensure proper drainage.
3. When the work is at an intermediate stage of completion, lines and grades shall be as specified within 0.5 foot or as necessary to provide adequate drainage.

3.02 FIELD QUALITY CONTROL

- A. Fill material shall be placed in horizontal layers and compacted with power operated tampers, rollers, idlers, or vibratory equipment. Material type, maximum layer depth, relative compaction, and general application are specified in Table A, below. Unless otherwise specified, fill classes shall be used where specified in Table A under General Application.

3.03 TESTS

- A. Inspection Trenches
1. District will direct Contractor to construct inspection trenches in compacted or consolidated backfill to determine that Contractor has complied with these Specifications.
B. American Concrete Institute (ACI):
ACI 301 Standard Specifications for Structural Concrete
ACI 318/318R Building Code Requirements for Structural Concrete and Commentary
C. American Society for Testing and Materials (ASTM)
ASTM A63 Specification for Pipe, Steel, Black and Hot-Dipped, Zinc Coated, Welded and Seamless
ASTM A615/615M Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement
ASTM A663/663M Specification for Steel Bars, Carbon, Merchant Quality, Mechanical Properties
ASTM C260 Specification for Air-Entraining Admixtures for Concrete
ASTM C309 Specification for Liquid Membrane-Forming Compounds for Curing Concrete
ASTM C881 Specification for Epoxy-Resin-Base Bonding Systems for Concrete
C. UCS Marin County Uniform Construction Standards, May 2008

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Specifications for furnishing, spreading, and compacting aggregate base course for pavements as indicated.

1.02 REFERENCES

- A. American Society for Testing and Materials (ASTM):
ASTM D2922 Test Methods for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)
ASTM D3017 Test Method for Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth)
B. State of California, Department of Transportation (Caltrans), Standard Specifications:
Section 17 Watering
Section 26 Aggregate Bases
C. State of California, Department of Transportation (Caltrans), Standard Test Methods:
Calif. Test 201 Method of Soil and Aggregate Sample Preparation
Calif. Test 202 Method of Tests for Sieve Analysis of Fine and Coarse Aggregates
Calif. Test 205 Method of Determining Percentage of Crushed Particles
Calif. Test 216 Method of Test for Relative Compaction of Untreated and Treated Soils and Aggregates
Calif. Test 217 Method of Test for Sand Equivalent
Calif. Test 229 Method of Test for Durability Index
Calif. Test 301 Method of Test for Resistance "R" Value of Treated and Untreated Bases, Subbases and Basement Soils by the Stabilometer

1.04 SUBMITTALS

- A. Product Data
Respective manufacturer's product data for manufactured products.

1.05 QUALITY ASSURANCE

- A. Tolerances
1. Construct concrete surfaces within 1/4 inch of the indicated elevation, and deviating not more than 1/8 inch from a 10 foot straightedge placed anywhere on the surface.
2. Slab tolerances shall be as specified in ACI 301
B. Finishes
Slab finishes shall be as specified herein accordance with the requirements of ACI 301.

PART 2 - PRODUCTS

2.01 AGGREGATE BASE MATERIAL

- A. Class 2 aggregate base shall be free of vegetable matter and other deleterious substances. Coarse aggregate, material contained on the No. 4 sieve, shall consist of material of which 25 percent by weight shall be crushed particles as determined by California Test Method No. 205. Class 2 aggregate base shall conform to one of the following gradings, determined in accordance with California Test Method No. 202:
Percentage Passing Sieves for 3/4" maximum

Table with 3 columns: Sieve Sizes, Test Method No., and Requirements. Rows include 2 inch, 1 1/2 inch, 1 inch, 3/4 inch, No. 4, No. 30, No. 200.

2.02 SOURCE QUALITY CONTROL

- A. Submit certificate of compliance for approval prior to installation of material.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Call for an inspection by the Engineer and obtain written acceptance of the prepared subgrade or subbase before proceeding with the placement of aggregate base course.
B. The subgrade or subbase to receive aggregate base course, immediately prior to spreading, shall conform to the compaction and elevation tolerances indicated for the material involved and shall be free of standing water and loose or extraneous material.

3.02 INSTALLATION STANDARDS

- A. Aggregate base course shall be applied over the prepared subgrade or subbase and compacted in accordance with Section 25 of the Caltrans Standard Specifications.
B. Aggregate base course shall be minimum uniform thickness after compaction of dimensions indicated. Where not indicated, compacted thickness shall be six inches for driveways/sidewalks and eight inches for roadways.
C. All compaction expressed in percentages in this section refers to the maximum dry density as determined by California Test Method No. 216.
D. Aggregate base course shall be spread in layers without segregation.

3.03 SPREADING OF MATERIAL

- A. Aggregate for base course shall be delivered as uniform mixture of fine and coarse aggregate and shall be spread in layers without segregation.
B. Aggregate base course material shall be free from pockets of large and fine material. Segregated materials shall be removed until uniform.
C. Aggregate base material shall be moisture-conditioned to near optimum moisture content in accordance with the applicable requirements of Section 17 of the Caltrans Standard Specifications.
D. Aggregate base course six inches and less in thickness may be spread and compacted in one layer. For thicknesses greater than six inches, the base course aggregate shall be spread and compacted in two or more layers of uniform thickness not greater than six inches each.

3.04 COMPACTING

- A. Relative compaction of each layer of compacted aggregate base material shall be not less than 95 percent as determined by California Test Method No. 216.
B. Thickness of finished base course shall not vary more than 3/4 inch from the indicated thickness at any point. Base which does not conform to this requirement shall be reshaped or reworked, watered, and recompacted to achieve compliance with specified requirements.
C. The surface of the finished aggregate base course at any point shall not vary more than 3/4 inch above or below the indicated grade.

3.05 FIELD QUALITY CONTROL

- A. Perform field tests in accordance with ASTM D2922 to determine compliance with specified requirements for density and compaction of aggregate base material, and with ASTM D3017 to determine moisture-content compliance of the installed base course.

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Specifications for providing portland concrete curbs, gutter, sidewalks, driveways, and island paving, as indicated.

1.02 RELATED SECTIONS

- A. Section 03 30 00 - Cast-In-Place Concrete
B. Section 32 11 23 - Aggregate Base

1.03 REFERENCES

- A. American Concrete Institute (ACI):
ACI 301 Standard Specifications for Structural Concrete
ACI 318/318R Building Code Requirements for Structural Concrete and Commentary
B. American Society for Testing and Materials (ASTM)
ASTM A63 Specification for Pipe, Steel, Black and Hot-Dipped, Zinc Coated, Welded and Seamless
ASTM A615/615M Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement
ASTM A663/663M Specification for Steel Bars, Carbon, Merchant Quality, Mechanical Properties
ASTM C260 Specification for Air-Entraining Admixtures for Concrete
ASTM C309 Specification for Liquid Membrane-Forming Compounds for Curing Concrete
ASTM C881 Specification for Epoxy-Resin-Base Bonding Systems for Concrete
C. UCS Marin County Uniform Construction Standards, May 2008

1.04 SUBMITTALS

- A. Product Data
Respective manufacturer's product data for manufactured products.

1.05 QUALITY ASSURANCE

- A. Tolerances
1. Construct concrete surfaces within 1/4 inch of the indicated elevation, and deviating not more than 1/8 inch from a 10 foot straightedge placed anywhere on the surface.
2. Slab tolerances shall be as specified in ACI 301
B. Finishes
Slab finishes shall be as specified herein accordance with the requirements of ACI 301.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Provide Class of Concrete indicated on the Contract Drawings or Construction Drawings.
a. Provide air-entraining of three percent (± one percent) with admixture conforming to ASTM C260.
b. Nominal size of large aggregate shall be 1".
c. Minimum total cement content shall be 520 pounds per cubic yard of concrete.
d. Minimum strength of concrete shall be 3000 psi.
B. Tie Bars
ASTM A615, Grade 60, of type and size indicated.
C. Dowels
Plain round bars meeting requirements of ASTM A615/A615M, Grade 60, of ASTM A663/A663M, Grade 80, epoxy-coated bars, furnished with approved snuffiting ASTM A53 galvanized pipe sleeve. Provide sleeve with one end closed.
D. Weep Holes
ASTM A53 galvanized pipe of size indicated.
E. Concrete Curing Compound
ASTM C309, Type 1.
F. Epoxy Adhesive
ASTM C881, Type V for load bearing concrete, Grade and Class as determined by project conditions and requirements.

PART 3 - EXECUTION

3.01 PREPARATION OF SUBGRADE

- A. Excavate for and prepare the subgrade as specified true to the indicated grade and cross section.
B. Test completed subgrade for correct grade and cross section by means of template supported on side forms.
C. Dampen subgrade and forms just before placing concrete.

3.02 TYPES OF CONSTRUCTION

- A. Provide cast-in-place concrete construction, plain or reinforced as indicated. Curbs, gutters, and walks shall be formed accurately to indicated section profile with template screed.
B. Extruded curbs and gutter, placed by an extrusion machine, may be provided where site conditions are suitable and the extrusion process is appropriate for the purpose.
C. PVC Pipe shall conform to ASTM D-3034, SDR 26, Bell and Spigot rubber joints for pipe sizes 4" through 8".
PVC Perforated Pipe (PVC Perp)
Pipe: PVC Perforated Pipe shall conform to ASTM D-3034, SDR 26, solvent weld joints for pipe sizes 4", 6" and 8". Perforations shall be 2 rows of 3/2 holes or 2" centers, 120" apart.

3.03 JOINTS

- A. Expansion Joints
1. Construct 1/2 inch thick expansion joints in the following locations
a. In curb and combination curb and gutter at the locations of expansion joints in the concrete roadway.
b. In curb or combination curb and gutter, at points where curved and tangent sections join.
c. Between curb or combination curb and gutter, and any drain inlet, or similar structure occurring within the limits of the curb or combination curb and gutter.
d. At corners in sidewalks, following the projections of the building lines from the corner of the building to the curb.
e. Between sidewalks and any permanent structure.
f. Between sidewalk and curb.
2. Construct 1/4 inch thick expansion joints in the following locations:
a. Through sidewalks at intervals not greater than 15 feet.
b. In sidewalks, encircling fixtures more than 12 inches in diameter.
3. Construct expansion joints as specified in UCS, except that load transfer devices will not be required unless indicated. Shape performed filler to cross section of curbs and combination curb and gutter.

3.04 FORM REMOVAL

- A. Remove front curb forms not less than two or more than six hours after placing concrete, but in no case while the concrete is still plastic enough to slump.
B. Remove other forms not less than 12 hours after finishing is completed.

3.05 FINISHING

- A. Curb and Combination Curb and Gutter:
1. Trowel the face of curb smooth to a depth of not less than two inches below the flow line, or the flow line of integral curb and gutter, and finish with a steel trowel, all immediately after removal of front curb forms.
2. Finish all curb edges with a radius of 1/2 inch.
3. Provide a final fine brush finish to both top and face of curb with brush strokes parallel to the line of the curb, so that both top and front face present the same uniform appearance.
4. Keep the curb face wet during above finishing operations.
5. Allow no coarse aggregate to show on the finished curb surface.
B. Sidewalk, Island Paving and Ramps
1. After the concrete has been placed, consolidated, struck off, leveled, grooved and edged as specified herein, and in UCS, do not work the concrete further until ready for floating.
2. Provide "floated finish" or "light broom finish" as indicated in accordance with the requirements of ACI 301.
3. For pedestrian and wheelchair ramps, and all other surfaces where the Contract Drawings require a non-slip finish, provide a "non-slip finish" in combination with a "floated finish" or "broom finish" in accordance with the requirements of ACI 301.
C. Joints and Edges
1. As soon as the condition of the work permits, perform joint work, edging and finishing. Finish all edges with a radius of 1/4 inch.

3.06 CURING AND PROTECTION

- A. Comply with the applicable requirements for curing concrete with liquid membrane-forming curing compound. Do not permit traffic on new concrete pavement until the concrete has cured a minimum period of ten days.
B. Provide damp curing only for concrete slab surfaces indicated to be treated with concrete hardener and dust proof.

3.07 FIELD QUALITY CONTROL

- A. The engineer shall perform inspections and tests. The Contractor shall provide such samples and services to facilitate testing.

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Specifications for site and subdrainage and area runoff collection system and connection to existing storm drainage system as indicated.

1.02 RELATED SECTIONS

- A. Section 31 23 33 - Trenching and Backfilling
B. Section 33 05 00 - Utility Structures

1.03 REFERENCES

- A. American Society of State Highway and Transportation Officials (ASHTO)
AASHTO Specification for Corrugated Polyethylene Pipe
M252M
AASHTO Specification for Corrugated Polyethylene Pipe, 300 1200 mm
M249M
B. American Society for Testing and Materials (ASTM)
ASTM F667 Standard Specification for Large Diameter Corrugated Polyethylene Pipe and Fittings
ASTM F405 Standard Specification for Corrugated Polyethylene Pipe and Fittings
ASTM C76 Specification for Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
C. Marin County Uniform Construction Standards - May 2008
D. Caltrans Standard Specifications - Latest Edition

1.04 SUBMITTALS

- A. Shop Drawings
Detailed drawings that indicate site drainage in plan and section, including relationship to other systems, interfaces, and drainage structures, connections, alignment, grade, bedding and backfill, and other pertinent data.
B. Product Data
Submit manufacturer's product data for pipe and pipe connection materials.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Pipe Connection Requirements
Ends of pipe shall be bell and spigot, except PVC Perp., to assure continuous alignment of pipe and leakproof joints.
B. Concrete Pipe (RCP)
Reinforced Pipe: ASTM C76, Class III; for pipe 15 inches in diameter and larger. "O" ring rubber gasket (ASTM C443)
C. High Density Polyethylene Pipe (HDPE)
Pipe: HDPE pipe conforming to ASTM D3312, or ASTM 1417 for pipe sizes 8 inch - 60 inch (ADS N-12 1B WT pipe or equivalent)
D. PVC Pipe (PVC)
Pipe: PVC Pipe shall conform to ASTM D-3034, SDR 26, Bell and Spigot rubber joints for pipe sizes 4" through 8".
PVC Perforated Pipe (PVC Perp)
Pipe: PVC Perforated Pipe shall conform to ASTM D-3034, SDR 26, solvent weld joints for pipe sizes 4", 6" and 8". Perforations shall be 2 rows of 3/2 holes or 2" centers, 120" apart.

PART 3 - EXECUTION

3.01 INSTALLATION OF PIPE

- A. Laying Pipe
1. Lay pipe to line and grade indicated. Bell and spigot type, lay bells in cross-cuts cut in trench. Lay pipe with the bell or grooved end uphill.
2. Prevent dirt from getting into joint openings.
3. Remove pipe which is cracked, checked, spalled, or damaged from the work.
4. Clean interior of pipe of cement, dirt, and extraneous matter as the work progresses.
B. Pipe Joints
1. Pipe joints shall be made secure and watertight.
2. Employ appropriate equipment to draw the sections of the pipe tightly together.
C. Visual Test Method
1. Slowly pull a television camera through storm drain and inspect for visual leaks, seeped joints and cracks in pipe and manholes. Repair leaks and joints. Replace cracked pipe. Re-inspect pipe. Submit tape of entire length of system to District for approval.

3.02 BACKFILLING

- 1. Piping shall not be covered with backfill material, until inspected, and approved by the Engineer.
2. After making up pipe joints, fill space between pipe and sides of trench with backfill material half-way up the pipe. Both sides shall be filled with backfill material at same time and carefully compacted so as to hold the pipe in its proper position.
3. After pipe has been installed, inspected, and approved, place and compact backfill as specified in Section 31 23 33 - Trenching and Backfilling.



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Civil & Structural Engineers
Surveying & Mapping
Environmental Planning
Landscape Planning
Construction Management





IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP# 01-117316
DATE: 1/10/18

DSA SUBMITTAL 01/10/2018

Sheet # 125-35612
AE Project # 75-18802 date: 01-10-2018
drawn by: PJ checked by: GR
scale: NONE

ELECTRICAL LEGEND

LIGHTING	
SYMBOL	DESCRIPTION
[Symbol]	RECESSED 2X4 LUMINAIRE
[Symbol]	SURFACE MOUNTED 2X4 LUMINAIRE
[Symbol]	RECESSED 1X4 LUMINAIRE
[Symbol]	SURFACE MOUNTED 1X4 LUMINAIRE
[Symbol]	RECESSED 2X2 LUMINAIRE
[Symbol]	SURFACE MOUNTED 2X2 LUMINAIRE
[Symbol]	SHADING OF ANY LUMINAIRE INDICATES CONNECTION TO ALTERNATE POWER SOURCE (EMERGENCY, UPS, STANDBY, ETC.) PER CIRCUITING INDICATED
[Symbol]	SUSPENDED LINEAR LUMINAIRE (SIZE VARIES)
[Symbol]	WALL MOUNTED LINEAR LUMINAIRE (SIZE VARIES)
[Symbol]	SUSPENDED PENDANT LUMINAIRE (SIZE VARIES)
[Symbol]	RECESSED DOWNLIGHT, CEILING MOUNTED
[Symbol]	SURFACE DOWNLIGHT, CEILING MOUNTED
[Symbol]	RECESSED WALLWASH
[Symbol]	SURFACE WALLWASH
[Symbol]	RECESSED LINEAR WALLWASH
[Symbol]	SURFACE LINEAR WALLWASH
[Symbol]	RECESSED WALL MOUNTED LUMINAIRE
[Symbol]	TRACK LIGHTING WITH HEADS AS INDICATED.
[Symbol]	RECESSED CEILING ADJUSTABLE POINT SOURCE
[Symbol]	SURFACE CEILING ADJUSTABLE POINT SOURCE
[Symbol]	WALL MOUNTED LUMINAIRE
[Symbol]	WALL MOUNTED DIRECTIONAL (SIZE VARIES)
[Symbol]	FLUORESCENT STRIPLIGHT - POWER FEED SECTION, FEED THROUGH SECTION, LENGTH AS SHOWN.
[Symbol]	WALL MOUNTED FLUORESCENT STRIPLIGHT
[Symbol]	UNDERCABINET FLUORESCENT STRIPLIGHT
[Symbol]	CONTINUOUS LINEAR SOURCE (LED, COLD CATHODE, NEON, FIBER OPTIC, ETC.)
[Symbol]	BATTERY POWER EMERGENCY UNIT EQUIPMENT (SEE LUMINAIRE SCHEDULE FOR QUANTITY OF HEADS) - WALL, CEILING MOUNTED.
[Symbol]	ILLUMINATED EXIT SIGN, SHADED QUADRANT INDICATES FACES, ARROWS AS SHOWN
[Symbol]	BOLLARD
[Symbol]	POLE MOUNTED LUMINAIRE - SINGLE OR DUAL HEAD
[Symbol]	INDICATES ROTATED OPTICS
[Symbol]	POST TOP MOUNTED LUMINAIRE
[Symbol]	IN-GRADE POINT SOURCE
[Symbol]	GARAGE LIGHTING LUMINAIRE WITH CUTOFF LOUVERS
LUMINAIRE MARKING CONVENTION LEGEND: HA = LUMINAIRE TYPE IDENTIFICATION. SEE LUMINAIRE SCHEDULE. 3c = CIRCUIT NUMBER VIA LOCAL SWITCH (LOWERCASE LETTER) THAT SERVES THE LUMINAIRE. 3A = CIRCUIT NUMBER/UPPERCASE LETTER COMBINATION INDICATES LOW VOLTAGE RELAY OR LIGHTING CONTACTOR THAT SERVES THE LUMINAIRE	

SWITCHING CONTROLS	
SYMBOL	DESCRIPTION
[Symbol]	SINGLE POLE SWITCH (SUPERSCRIPIT DENOTES SIMILARLY MARKED LUMINAIRES CONTROLLED TOGETHER)
[Symbol]	TWO POLE SWITCH
[Symbol]	THREE WAY SWITCH
[Symbol]	FOUR WAY SWITCH
[Symbol]	KEY OPERATED SWITCH
[Symbol]	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD.
[Symbol]	DIMMER SWITCH UNDER SEPARATE COVERPLATE
[Symbol]	SWITCH WITH PILOT LIGHT (PILOT IS "ON" WHEN SWITCH IS "ON").
[Symbol]	SWITCH WITH PILOT LIGHT (PILOT IS "ON" WHEN SWITCH IS "OFF").
[Symbol]	TIMER SWITCH
[Symbol]	LOW VOLTAGE MOMENTARY CONTACT SWITCH, UPPER CASE LETTER SUPERSCRIPIT INDICATES CONNECTION TO LOW VOLTAGE RELAY. CONTROLLING SIMILARLY MARKED LUMINAIRES.
[Symbol]	EXPLOSION PROOF SWITCH
[Symbol]	WEATHERPROOF SWITCH
[Symbol]	LINE VOLTAGE, VARIABLE SPEED FAN CONTROL SWITCH, PROVIDED BY MECHANICAL, INSTALLED BY ELECTRICAL. LOCATE ADJACENT TO ADJACENT TO LIGHT SWITCHES.
[Symbol]	MOTOR-RATED THERMAL OVERLOAD SWITCH
[Symbol]	LIGHTING CONTROL OVERRIDE SWITCH, SEQ. NUMBER
[Symbol]	PHOTOCELL
[Symbol]	EQUIPMENT OPERATOR PUSH BUTTON STATION. PROVIDED WITH EQUIPMENT, INSTALLED AND CONNECTED BY ELECTRICAL, UON.
[Symbol]	PUSHBUTTON OR PUSHBUTTONS, BY ELECTRICAL.
[Symbol]	TIME CLOCK
[Symbol]	OCCUPANCY SENSOR - WALL MOUNTED
[Symbol]	360 DEGREE OCCUPANCY SENSOR - CEILING MTD.
[Symbol]	180 DEGREE OCCUPANCY SENSOR - CEILING MTD. CORRIDOR/AISLE OCCUPANCY SENSOR - CEILING MOUNTED
[Symbol]	COMBINATION OCCUPANCY SENSOR & SWITCH GANGED UNDER A COMMON COVER PLATE. OCCUPANCY SENSOR TO CONTROL ALL LUMINAIRES IN ROOM WITH 1/2 LIGHT REDUCTION CONTROLLED BY SWITCH, DESIGNATED BY LETTER. 2-GANG BOX WITH SINGLE-GANG MOUNTING, UON SPECIFIED
[Symbol]	THERMOSTAT - WALL, CEILING, PROVIDED BY MECHANICAL, INSTALLED AND WIRED BY ELECTRICAL.
[Symbol]	EMERGENCY POWER OFF, HEAVY-DUTY, OIL-TIGHT RED MUSHROOM-HEAD PUSHBUTTON W/ GUARD.
[Symbol]	LIGHTING CONTROL PANEL AND ASSOCIATED COMPONENTS. PROVIDE 120V OR 277V CONTROL POWER AS REQUIRED OR AS INDICATED.
[Symbol]	REMOTE MOUNTED LINE TO LOW-VOLTAGE FUSED TRANSFORMER. CONCEAL FROM VIEW.

DISTRIBUTION & EQUIPMENT	
SYMBOL	DESCRIPTION
[Symbol]	BRANCH CIRCUIT PANELBOARDS, SURFACE AND RECESSED MOUNTED, SOLID, 120/280V. HATCHED = 277/480V. DASHED EQUIP. = FUTURE
[Symbol]	MOTOR CONTROL CENTER W/ CODE CLEARANCES SHOWN, DASHED EQUIP. = FUTURE
[Symbol]	TRANSFORMER WITH CODE CLEARANCES SHOWN
[Symbol]	SERVICE AND/OR DISTRIBUTION EQUIPMENT WITH CODE CLEARANCES SHOWN
[Symbol]	CONNECTION TO MOTOR PROVIDED BY OTHERS
[Symbol]	CONNECTION TO MECHANICAL FURNISHED VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT ELECTRICAL TO INSTALL VFD EQUIPMENT
[Symbol]	DISCONNECT SWITCH, SIZE AS NOTED OR IF NOT SHOWN SIZE PER CONNECTED MOTOR SIZE AND MOTOR DISCONNECT SCHEDULE
[Symbol]	FUSED DISCONNECT SWITCH, SIZE AS NOTED, SIZE FUSE PER MANUFACTURER'S RECOMMENDATIONS
[Symbol]	ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH, TRIP SIZE AS NOTED.
[Symbol]	DISCONNECT W/ MAGNETIC MOTOR STARTER (CONTROLLER) OR CONTACTOR, SIZE PER LOAD SERVED, NEMA SIZE #1 MINIMUM.
[Symbol]	MAGNETIC MOTOR STARTER (CONTROLLER) OR CONTACTOR, SIZE PER LOAD SERVED, NEMA SIZE #1 MINIMUM.
[Symbol]	ELECTRICAL CONNECTION, EQUIPMENT PROVIDED BY OTHERS. SHADED = ON ALT. POWER SOURCE NOTED
[Symbol]	ELECTRICAL CONNECTION TO EQUIPMENT WITH INTEGRAL DISCONNECT THAT IS PROVIDED BY OTHERS. SHADED = ON ALT. POWER SOURCE NOTED
[Symbol]	EQUIPMENT OR TERMINAL ENCLOSURE AS NOTED, SURFACE AND RECESS MOUNTED
[Symbol]	BUILDING GROUND BUS, SEE DETAILS
[Symbol]	DAMPER MOTOR
[Symbol]	BUSWAY RISER
[Symbol]	BUSWAY STAB-IN-TYPE CIRCUIT BREAKER OR FUSE DISCONNECT, SIZE AS NOTED.

DIAGRAMS	
SYMBOL	DESCRIPTION
[Symbol]	TRANSFER SWITCH, AUTOMATIC OR MANUAL AS DESCRIBED ON PLANS.
[Symbol]	SWITCH
[Symbol]	FIELD INSTALLED CONTROL CIRCUIT WIRING TO DESTINATION SHOWN, U.O.N.
[Symbol]	OVERLOADS
[Symbol]	NORMALLY CLOSED CONTACTOR OR RELAY CONTACTS
[Symbol]	NORMALLY OPEN CONTACTOR OR RELAY CONTACTS
[Symbol]	BUS DUCT
[Symbol]	BUS BAR
[Symbol]	BATTERY GENERAL
[Symbol]	RESISTOR
[Symbol]	CONNECTOR, FEMALE AND MALE RESPECTIVELY
[Symbol]	PIPE GROUND
[Symbol]	CONTACTOR COIL
[Symbol]	RELAY COIL
[Symbol]	LIGHTNING SURGE ARRESTOR D= DISTRIBUTION CLASS I = INTERMEDIATE CLASS
[Symbol]	SURGE PROTECTION DEVICE
[Symbol]	CURRENT TRANSFORMER
[Symbol]	POTENTIAL TRANSFORMER
[Symbol]	NORMALLY OPEN PUSH BUTTON
[Symbol]	NORMALLY CLOSED PUSH BUTTON
[Symbol]	FUSED VOLTAGE SENSE LEADS
[Symbol]	METER: POWER FACTOR
[Symbol]	METER: KILOWATT HOUR
[Symbol]	UTILITY CO. APPROVED SOCKET WITH METER INSTALLED. SQUARE = REMOTE MOUNTED
[Symbol]	DIGITAL METER UNIT. REFER TO SPECIFICATIONS.
[Symbol]	CURRENT TRANSFORMER SHORTING TERMINAL BLOCK.
[Symbol]	TERMINAL FOR FIELD CONNECT, SIZE & TYPE SUITABLE FOR CONDUIT INSTALLED.
[Symbol]	LED INDICATOR LIGHT, PUSH TO TEST, R=RED, G=GREEN, B=BLUE, Y=YELLOW, W=WHITE
[Symbol]	DELTA CONNECTION
[Symbol]	GROUNDING WYE CONNECTION
[Symbol]	CONNECTION TO GROUND
[Symbol]	CIRCUIT BREAKER, WITH TRIP & FRAME AMPERE RATING
[Symbol]	FUSED SWITCH, WITH FUSE AND SWITCH AMPERE RATING
[Symbol]	INDIVIDUALLY MOUNTED CIRCUIT BREAKER
[Symbol]	CIRCUIT BREAKER, MEDIUM VOLTAGE, DRAWOUT
[Symbol]	DRAWOUT CIRCUIT BREAKER
[Symbol]	GROUND FAULT TRIP UNIT
[Symbol]	BELL ALARM TRIP MODULE CONTACTS
[Symbol]	SHUNT TRIP UNIT, 120VAC OR VOLTAGE AS NOTED
[Symbol]	MONITORING COMMUNICATION MODULE
[Symbol]	INTEGRAL AMMETER DISPLAY
[Symbol]	KEY INTERLOCK
[Symbol]	MECHANICAL INTERLOCK
[Symbol]	CAPACITOR, POWER FACTOR CORRECTION, SIZE IN KVAR
[Symbol]	GENERATOR
[Symbol]	FUSE, HOLDER & PULLER
[Symbol]	CONNECTION CHILLER
[Symbol]	SOLENOID

POWER DEVICES	
SYMBOL	DESCRIPTION
[Symbol]	SINGLE RECEPTACLE - WALL, CEILING, ON ALT.
[Symbol]	DUPLEX RECEPTACLE - WALL, CEILING, ON ALT.
[Symbol]	DOUBLE DUPLEX RECEPTACLE - WALL, CLG, ON ALT.
[Symbol]	SPECIAL PURPOSE RECEPTACLE - WALL, CEILING ON ALT. POWER; NEMA CONFIGURATION AS NOTED L5-15R
[Symbol]	RECEPTACLE TYPE SHOWN - WALL - ABOVE COUNTER BACKSPLASH. SEE ARCHITECTURAL DRAWINGS.
[Symbol]	"ON ALT."
[Symbol]	SHADED RECEPTACLES NOTED "ON ALT." ABOVE ARE CONNECTED TO ALTERNATE POWER SOURCE (EMERG., STANDBY, UPS, ETC.) PER CIRCUITING INDICATED
[Symbol]	DUPLEX RECEPTACLE - WALL - HALF SWITCHED
[Symbol]	COMBINATION SWITCH/DUPLEX SWITCHED
[Symbol]	DUPLEX RECEPTACLE - WALL - WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER
[Symbol]	RECEPT. TYPE SHOWN W/ WEATHERPROOF COVER AND INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER
[Symbol]	RECEPT. TYPE SHOWN AT SPECIAL HEIGHT
[Symbol]	WALL MOUNTED ELECTRICAL CONNECTION TO ELECTRIFIED FURNITURE. PROVIDE 8 WIRES (4 HOTS, 1 DEDICATED NEUTRAL, 1 COMMON NEUTRAL, 1 ISOLATED GROUND) NEUTRALS TO BE #10 AWG. USE LIQUID-TIGHT FLEX.
[Symbol]	CLOCK HANGER RECEPTACLE
[Symbol]	FLUSH FLOOR BOX DEVICE - DEVICE TYPE PER SYMBOLS ABOVE
[Symbol]	PEDESTAL FLOOR DEVICE - DEVICE TYPE PER SYMBOLS ABOVE
[Symbol]	POKE THRU UNIT WITH DUPLEX RECEPTACLE - FLUSH, PEDESTAL MOUNTED.
[Symbol]	COMBO POKE THRU UNIT WITH DUPLEX RECEPTACLE AND TELEPHONE OUTLET - FLUSH, PEDESTAL MOUNTED.
[Symbol]	MULTI-SERVICE FLOOR BOX CAST IN CONC. OR IN RAISED FLOOR - SEE ARCH DWGS; WITH RECEPTACLES & SIGNAL OUTLETS AS NOTED.
[Symbol]	POKE THRU UNIT WITH JUNCTION BOX. RACEWAY COMPONENTS RC-700 SERIES.
[Symbol]	TELE/POWER POLE, POWER POLE
[Symbol]	TELE/POWER POLE WITH WHIP CONNECTION TO ELECTRIFIED FURNITURE
[Symbol]	TWO-PIECE SURFACE METAL RACEWAY WITH RECEPTACLES AS NOTED, LENGTH AS INDICATED ON THE DRAWINGS AND WITH ALL FITTINGS AS REQUIRED.
[Symbol]	TWO OR THREE COMPARTMENT SURFACE METAL RACEWAY WITH RECEPTACLES AND OUTLETS AS INDICATED, LENGTH AS INDICATED ON THE DRAWINGS. PROVIDE ALL FITTINGS AS REQUIRED.

SIGNAL DEVICES	
SYMBOL	DESCRIPTION
[Symbol]	TERMINAL/MOUNTING BOARD, 8" HIGH X WIDTH AS SHOWN, FIRE TREATED.
[Symbol]	SIGNAL SYSTEM EQUIPMENT ENCLOSURES AS NOTED - SURFACE, RECESSED MOUNTED
[Symbol]	COMBO TELEPHONE/DATA OUTLET - WALL
[Symbol]	TELEPHONE OUTLET - WALL, W = USE HIGHER MOUNTING HEIGHT PER MOUNTING HT. DETAIL
[Symbol]	DATA OUTLET - WALL
[Symbol]	SPEAKER - WALL, CEILING
[Symbol]	VOLUME CONTROL - WALL
[Symbol]	BELL
[Symbol]	BUZZER
[Symbol]	CHIME
[Symbol]	SYSTEM CLOCK - WALL, CEILING
[Symbol]	INTERCOM STATION - WALL, DESK
[Symbol]	M = MASTER STATION
[Symbol]	MICROPHONE JACK - WALL, FLOOR
[Symbol]	PUSHBUTTON OR PUSHBUTTONS
[Symbol]	RF COAX CABLE OUTLET (TV, VCR, ETC.)
[Symbol]	COMBINATION RF COAX CABLE AND DATA OUTLET
[Symbol]	RF COAX CABLE SIGNAL SPLITTER
[Symbol]	RF COAX CABLE DISTRIBUTION AMPLIFIER. PROVIDE 120V POWER AS REQUIRED OR AS INDICATED. SEE RISER DIAGRAM.
[Symbol]	FLUSH FLOOR DEVICE - DEVICE TYPE PER SYMBOLS ABOVE
[Symbol]	PEDESTAL FLOOR DEVICE - DEVICE TYPE PER SYMBOLS ABOVE
[Symbol]	PAGING SYSTEM HORN (OUTDOOR)
[Symbol]	DUAL COIL SPEAKER - SURFACE CEILING, RECESSED CEILING.
[Symbol]	PAGING OR PAGING/SOUND MASKING SPEAKER, MOUNTED ABOVE ACOUSTIC TILE CEILING.
[Symbol]	AV INPUT OUTLET, 1" WITH 3-GANG BOX. CONDUIT STUBBED ABOVE ACCESSIBLE TILE CEILING.
[Symbol]	ASSISTIVE LISTENING INFRARED TRANSMITTER PANEL, 1" WITH 2-GANG BOX. CONDUIT STUBBED ABOVE ACCESSIBLE TILE CEILING.

REFERENCE SYMBOLS	
SYMBOL	DESCRIPTION
[Symbol]	KEYED NOTE REFERENCE
[Symbol]	BRANCH CIRCUIT OR FEEDER NOMINAL AMPACITY & TYPE. REFER TO BRANCH CIRCUIT AND FEEDER SCHEDULES FOR WIRE AND CONDUIT SIZES & QTY.
[Symbol]	REFER TO DETAIL NO. ON DRAWING INDICATED. NOT ALL DETAIL REFERENCES ARE SHOWN. ALL DETAILS APPLY TO ALL APPLICABLE SITUATIONS, UON.
[Symbol]	ELEVATION TAG: REFER TO ELEVATION NUMBER ON DRAWING INDICATED
[Symbol]	SECTION TAG: REFER TO SECTION NUMBER ON DRAWING INDICATED
[Symbol]	KITCHEN EQUIPMENT REFERENCE, REFER TO KITCHEN EQUIPMENT SCHEDULE
[Symbol]	MECHANICAL EQUIPMENT IDENTIFICATION TAG
[Symbol]	EQUIPMENT BY OTHERS IDENTIFICATION TAG

WIRING	
SYMBOL	DESCRIPTION
[Symbol]	WIRING CONCEALED IN CEILING OR WALL. LINE WEIGHT TOP TO BOTTOM = NEW, EXISTING TO REMAIN, FUTURE
[Symbol]	WIRING CONCEALED IN FLOOR OR UNDER GRADE OR ROUTED IN CEILING SPACE OF FLOOR BELOW. LINE WEIGHT TOP TO BOTTOM = NEW, EXISTING TO REMAIN, FUTURE
[Symbol]	EXISTING WIRING TO BE REMOVED
[Symbol]	TELEPHONE SYSTEM CONDUIT
[Symbol]	MEDIUM VOLTAGE CONDUIT
[Symbol]	BARE GROUNDING GRID OR CONDUCTORS, UON.
[Symbol]	GROUNDING CONDUCTOR(S) ROUTED IN CODE SIZED CONDUIT, UON.
[Symbol]	STROKES INDICATE QUANTITY OF #12 AWG. CONDUCTORS, UON. NOTE: WIRING STROKES FOR 20A BRANCH CIRCUITS ARE NOT SHOWN ON DRAWINGS. CONTRACTOR SHALL USE INFORMATION IN PANEL AND BRANCH CIRCUIT SCHEDULES TO PROVIDE REQUIRED CIRCUITING.
[Symbol]	GROUND
[Symbol]	GROUND, ISOLATED
[Symbol]	HOT
[Symbol]	NEUTRAL
[Symbol]	HOME RUN WIRING TO INDICATED DESTINATION, 3/4" MIN. OR AS OTHERWISE NOTED. CONTRACTOR SHALL USE CIRCUIT SIZES NOTED IN RESPECTIVE SCHEDULES AND INFORMATION IN THE FEEDER AND BRANCH CIRCUIT SCHEDULES.
[Symbol]	CONDUIT RUN TURNED UP THROUGH FLOOR OR CEILING, CORE & FIREPROOF AS REQUIRED.
[Symbol]	CONDUIT RUN TURNED DOWN THROUGH FLOOR OR CEILING, CORE & FIREPROOF AS REQUIRED.
[Symbol]	CONDUIT STUBBED OUT AT LOCATION SHOWN. PROVIDE INSULATED BUSHING & PULLROPE.
[Symbol]	TELEPHONE/DATA SLEEVE THROUGH WALL, ABOVE CEILING, EXTEND TO ACCESSIBLE TILE CLG, BOTH SIDES. TERMINATE WITH BUSHINGS, (1) 1.25" CO LON, COORDINATE LOCATIONS WITH CABLE INSTALLER(S) PRIOR TO ROUGH-IN.
[Symbol]	BASKET TYPE CABLE TRAY WITH 90 DEGREE ELBOW SHOWN
[Symbol]	LADDER TYPE CABLE TRAY WITH 90 DEGREE ELBOW SHOWN
[Symbol]	JUNCTION BOXES, WALL, CEILING AND FLUSH FLOOR MOUNTED, 4" SQ. BOX MIN., LARGER IF REQUIRED
[Symbol]	WIRING EXTENSION POINT - CONDUIT TO MC CABLE OR MANUFACTURED WIRING SYSTEM J-BOX ABOVE ACCESSIBLE CEILING AREAS, OR EXTEND CONDUIT & WIRE IN EXPOSED OR "HARDY" CEILING AREAS. SHADED= ON ALT. POWER SOURCE (EMERG,UPS,ETC.)
[Symbol]	PULL BOX, MIN. SIZE PER NEC., UON.
[Symbol]	UNDERFLOOR RACEWAY
[Symbol]	FLEXIBLE CONDUIT CONNECTION
[Symbol]	POWER CONNECTION TO FIRE/SMOKE DAMPER. REFER TO FSD CONNECTION DETAIL IF NOT SHOWN

FIRE ALARM SYSTEM	
SYMBOL	DESCRIPTION
[Symbol]	FIRE ALARM CONTROL PANEL AND ASSOCIATED COMPONENTS. PROVIDE 120V POWER AS REQUIRED OR AS INDICATED.
[Symbol]	FIRE ALARM SYSTEM ANNUNCIATOR
[Symbol]	FIRE ALARM SYSTEM MANUAL PULL STATION, WALL MOUNTED
[Symbol]	ALARM BELL OR GONG
[Symbol]	STROBE LIGHT - WALL, CEILING MOUNTED (# = CANDELA RATING)
[Symbol]	SPEAKER - WALL, CEILING MOUNTED
[Symbol]	COMBINATION SPEAKER/STROBE, WALL MOUNTED (# = CANDELA RATING)
[Symbol]	HORN - CEILING, WALL MOUNTED
[Symbol]	COMBINATION HORN/STROBE - WALL, CEILING MOUNTED (# = CANDELA RATING)
[Symbol]	MINI HORN - WALL, CEILING MOUNTED
[Symbol]	COMBINATION MINI HORN/STROBE - WALL, CEILING MOUNTED (# = CANDELA RATING)
[Symbol]	SPRINKLER VALVE TAMPER SWITCH CONNECTION
[Symbol]	SPRINKLER FLOW SWITCH CONNECTION
[Symbol]	LIGHT BEAM TYPE SMOKE DETECTOR (BR=BEAM RECEIVER, BT=BEAM TRANSMITTER)
[Symbol]	SMOKE DETECTOR, DUCT MOUNTED, WITH FULL WIDTH SAMPLING TUBES. PHOTOELECTRIC TYPE UON.
[Symbol]	SMOKE DETECTOR, LOW AIR VELOCITY IN DUCT MOUNTED PHOTOELECTRIC TYPE U.O.N.
[Symbol]	SMOKE DETECTOR - WALL, CEILING MOUNTED (P=PLENUM MOUNTED, B=W/RELAY BASE, E=ELEVATOR RECALL, C=INTEGRAL TO DOOR CLOSURE)
[Symbol]	SMOKE DETECTOR MOUNTED BELOW RAISED FLOOR
[Symbol]	ELECTROMAGNETIC DOOR HOLDER - WALL, FLOOR, DOOR CLOSURE MOUNTED. VERIFY REQUIREMENTS WITH DOOR SUPPLIER.
[Symbol]	DATA LOOP ISOLATION MODULE
[Symbol]	ADDRESSABLE CONTROL MODULE
[Symbol]	ADDRESSABLE MONITOR MODULE
[Symbol]	END OF LINE RESISTOR (NOT SHOWN ON PLANS)
[Symbol]	FIREMAN'S PHONE JACK, WALL MOUNTED
[Symbol]	FIREMAN'S PHONE HANDSET, WALL MOUNTED
[Symbol]	FIRE/SMOKE DAMPER, WIDTH OF SYMBOL WILL VARY WITH DUCT WIDTH. PROVIDE POWER AND MONITORING AS INDICATED. REFER TO FSD CONNECTION DETAIL.
[Symbol]	FLAME DETECTOR (FLICKER DETECTOR)
[Symbol]	HEAT DETECTOR, CEILING MOUNTED, RATE OF RISE AND FIXED TEMPERATURE TYPE, UON.
[Symbol]	HEAT DETECTOR (R/C=RATE OF COMBUSTION, F=FIXED TEMP. ONLY, R=RATE OF RISE ONLY)
[Symbol]	EARLY WARNING SMOKE DETECTION SYSTEM - INCLUDES ALL PIPING BY ELECTRICAL
[Symbol]	LIGHT (LAMP, SIGNAL LIGHT, INDICATOR LAMP, STROBE)
[Symbol]	FIRE ALARM OUTPUT OR RELEASE ABORT PUSHBUTTON, REFER TO SPECIFICATIONS AND DETAILS.
[Symbol]	AGENT RELEASE INITIATING VALVE
[Symbol]	BELL SILENCE SWITCH
[Symbol]	AGENT DISCHARGE SWITCH

GROUNDING SYSTEM	
SYMBOL	DESCRIPTION
[Symbol]	BARE GROUNDING GRID OR CONDUCTORS, UON.
[Symbol]	GROUNDING CONDUCTOR(S) ROUTED IN CODE SIZED CONDUIT, UON.
[Symbol]	GROUND GRID BOND POINT
[Symbol]	GROUND GRID BOND POINT - MECHANICAL CONNECTION
[Symbol]	GROUND GRID BOND POINT - EXOTHERMIC WELD CONNECTION
[Symbol]	24" GROUND BAR
[Symbol]	60" GROUND BAR
[Symbol]	GROUND ROD LOCATION
[Symbol]	GROUND ROD IN TEST WELL
[Symbol]	LIGHTNING PROTECTION PARAPET MOUNTED AIR TERMINAL
[Symbol]	LIGHTNING PROTECTION MID ROOF MOUNTED AIR TERMINAL
[Symbol]	LIGHTNING PROTECTION AIR TERMINAL
[Symbol]	LIGHTNING PROTECTION CONDUCTOR ROUTED DOWN
[Symbol]	LIGHTNING PROTECTION BOND PLATE
[Symbol]	LIGHTNING PROTECTION BIMETAL CONNECTION

ABBREVIATIONS	
SYMBOL	DESCRIPTION
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE REMOVED
(RL)	EXISTING TO BE RELOCATED
AB	ABOVE COUNTER BACKSPLASH
ACU	AIR CONDITIONING UNIT
AC	ALTERNATING CURRENT
A, AMP	AMPERES (RATED) FUSE OR CB FRAME
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	EQUIPMENT SHORT CIRCUIT INTERRUPT RATING (RMS SYM. AMPS)
AL	ALUMINUM (ALLOY)
ALC	AUTOMATIC LIGHTING CONTROL
AS	AMPERE (RATED) SWITCH
AT	CIRCUIT BRKR TRIP SETTING (AMPS)
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BAT	BATTERY
BG	BELOW GRADE
BRKR	CIRCUIT BREAKER
C	CONDUIT (CIRCULAR RACEWAY)
CAB	CABINET
CB	CIRCUIT BREAKER
CFM	CUBIC FEET PER MINUTE
CKT	CIRCUIT
CLG	CEILING
CO	CONDUIT ONLY
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT
DIA	DIAMETER
DI	DIVISION
DP	DISTRIBUTION PANEL
DPDT	DOUBLE POLE DOUBLE THROW
DPT	DOUBLE POLE SINGLE THROW
DWG	DRAWING
E	EMERGENCY
EEMERG	EMERGENCY
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EO	ELECTRICALLY OPERATED
EOL	END OF LINE
EWC	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FBO	FURNISHED BY OTHERS
FC	FOOT CANDLES
FF</	

ELECTRICAL SPECIFICATIONS

DIVISION 26 - ELECTRICAL
SECTION 26_00_00
BASIC ELECTRICAL REQUIREMENTS

A. NOTES

- DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND ALL OTHER SPECIFICATION SECTIONS, APPLY TO THIS AND THE OTHER SECTIONS OF DIVISION 26.
- THE CONTRACTOR FOR THIS WORK IS REQUIRED TO READ THE SPECIFICATIONS AND REVIEW DRAWINGS FOR ALL DIVISIONS OF WORK AND IS RESPONSIBLE FOR THE COORDINATION OF THIS WORK AND THE WORK OF THIS SUBCONTRACTORS WITH ALL DIVISIONS OF WORK. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO PROVIDE THIS SUBCONTRACTOR WITH A COMPLETE SET OF BID DOCUMENTS.
- THIS CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE COMPLETION OF AND INSPECTION OF THIS WORK AND THE WORK OF THIS SUBCONTRACTORS WORK TO COMPLY WITH THE SCHEDULE AND THE PROJECT COMPLETION DATE.
- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTAL OF BID TO DETERMINE CONDITIONS AFFECTING THE WORK. ANY ITEMS WHICH ARE NOT COVERED IN THE BID DOCUMENTS OR ANY PROPOSED SUBSTITUTIONS SHALL BE LISTED SEPARATELY AND QUALIFIED IN THE CONTRACTOR'S BID. SUBMITTAL OF BID SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN PERFORMANCE OF WORK.

B. GENERAL REQUIREMENTS

- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE COMPLETE ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS, AND AS REQUIRED BY JOB CONDITIONS. FURNISH AND INSTALL EQUIPMENT THAT IS RATED FOR AVAILABLE FAULT CURRENT LEVELS. FURNISH AND INSTALL "CABLE LIMITERS" IF NECESSARY TO LIMIT FAULT CURRENT. FIELD VERIFY THE EXACT TYPE, SIZE, LOCATION, REQUIREMENTS, ETC. OF EXISTING POWER AND TELEPHONE FACILITIES PRIOR TO SUBMISSION OF BID.
- UNLESS SPECIFICALLY NOTED OTHERWISE, MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW, UNDERWRITERS LABORATORIES LISTED AND LABELED AND SIZED IN CONFORMITY WITH REQUIREMENTS OF THE CALIFORNIA ELECTRICAL CODE, OTHER STATE AND LOCAL CODES, WHICHEVER IS MORE STRINGENT.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL OR LABOR CALLED FOR IN ONE SHALL BE PROVIDED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH. ANY MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON THE DRAWINGS NOR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK OR WHICH IS USUALLY INCLUDED IN WORK OF SIMILAR CHARACTER, SHALL BE PROVIDED AS PART OF CONTRACT.
- WHERE THE DRAWINGS OR SPECIFICATIONS CALL FOR ITEMS WHICH EXCEED CODES, THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING THE SYSTEM WITH THE MORE STRINGENT REQUIREMENTS AS DESIGNED AND DESCRIBED ON THESE DRAWINGS, UNLESS NOTED OTHERWISE.

- ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. THIS CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT SERVICE ACCESS TO ALL EQUIPMENT.
- THIS CONTRACTOR SHALL DO ALL CUTTING, CHASING, OR CHANNELING AND PATCHING REQUIRED FOR ANY WORK UNDER THIS DIVISION. CUTTING SHALL HAVE PRIOR APPROVAL BY THE ARCHITECT PATCHING IS TO MATCH SURROUNDING SURFACES.

C. TEMPORARY LIGHT AND POWER

- THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL TEMPORARY WIRING AND RELATED GROUND FAULT INTERRUPTION PROTECTION FOR LIGHT AND POWER OR ALL CONTRACTORS AND IS RESPONSIBLE FOR ITS REMOVAL.

- THE GENERAL CONTRACTOR SHALL PAY FOR ALL ELECTRICITY PRIOR TO BUILDING COMPLETION AND INCLUDE COST IN BID.

D. CODES

- ALL WORK SHALL BE PERFORMED IN A NEAT AND PROFESSIONAL MANNER AND CONFORM TO THE LATEST ADOPTED EDITION OF THE CALIFORNIA ELECTRICAL CODE, OTHER STATE'S, COUNTY'S, CITY'S AND LOCAL CODES AND ORDINANCES, SAFETY AND HEALTH CODES, NFPA CODES, ENERGY CODES, AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. THIS CONTRACTOR SHALL INQUIRE INTO AN COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. THIS CONTRACTOR SHALL INCLUDE ANY CHANGES REQUIRED BY CODES IN THE BID AND IF THESE CHANGES ARE NOT INCLUDED IN THE BID, THEY MUST BE QUALIFIED AS A SEPARATE LINE ITEM IN THE BID.

E. LICENSES, PERMITS, INSPECTIONS AND FEES

- THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, INSPECTIONS, AND FEES REQUIRED OR RELATED TO HIS WORK.

F. TRADE NAMES, MANUFACTURERS AND SHOP DRAWINGS

- WHERE TRADE NAMES AND MANUFACTURERS ARE USED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THE EXACT EQUIPMENT SHALL BE USED AS A MINIMUM FOR THE BASE BID. MANUFACTURERS CONSIDERED AS AN EQUAL OR BETTER IN ALL ASPECTS TO THAT SPECIFIED WILL BE SUBJECT TO APPROVAL IN WRITING, THROUGH SHOP DRAWING SUBMITTAL PROCESS, THE USE OF ANY UNAUTHORIZED EQUIPMENT SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

- THIS CONTRACTOR SHALL SUBMIT ONLY SUBSTITUTION REQUESTS TO ARCHITECT'S PROJECT MANAGER FOR APPROVAL. SUBSTITUTIONS SHALL BE MADE EARLY ENOUGH IN PROJECT TO ALLOW TEN (10) WORKING DAYS FOR ARCHITECT TO REVIEW WITHOUT CAUSING DELAYS OR CONFLICTS TO THE JOB'S PROGRESS. SUBMITTALS SHALL BEAR THE STAMP OF THIS CONTRACTOR AND ANY SUB-COONTRACTORS SHOWING THAT HE HAS REVIEWED AND CONFIRMED THAT THE SUBMITTALS ARE IN CONFORMANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS OR INDICATE WHERE EXCEPTIONS HAVE BEEN TAKEN.

G. GUARANTEE

- THIS CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORK PROVIDED UNDER HIS CONTRACT AND SHALL MAKE GOOD, REPAIR OR REPLACE AT HIS OWN EXPENSE, ANY DEFECTIVE WORK, MATERIAL, OR EQUIPMENT WHICH MAY BE DISCOVERED WITHIN A PERIOD OF 12 MONTHS FROM THE DATE OF ACCEPTANCE (IN WRITING) OF THE INSTALLATION BY ARCHITECT'S PROJECT MANAGER/ENGINEERING MANAGER. EXTENDED WARRANTIES ARE SPECIFIED WITH INDIVIDUAL EQUIPMENT.

H. RECORD DRAWINGS

- THIS CONTRACTOR SHALL MAINTAIN ONE COPY OF DRAWINGS ON THE JOB SITE TO RECORD DEVIATIONS FROM CONTRACT DRAWINGS, SUCH AS:

- LOCATION OF JUNCTION BOXES AND RECEPTACLES.
- REVISIONS, ADDENDUMS, AND CHANGE ORDERS.
- SIGNIFICANT DEVIATIONS MADE NECESSARY BY FIELD CONDITIONS, APPROVED EQUIPMENT SUBSTITUTIONS, AND CONTRACTOR'S COORDINATION WITH OTHER TRADES.

- AT COMPLETION OF PROJECT AND BEFORE FINAL APPROVAL, THE CONTRACTOR SHALL MAKE ANY FINAL CORRECTIONS TO DRAWINGS AND CERTIFY THE ACCURACY OF EACH PRINT BY SIGNATURE THEREON. ONE COPY OF DRAWINGS STAMPED "DO NOT REMOVE" SHALL BE PLACED IN DRAWING TUBE LOCATED NEXT TO THE ELECTRICAL PANELS (SEE ARCHITECTURAL DRAWINGS FOR LOCATION).

I. DISCREPANCIES IN DOCUMENTS

- DRAWINGS (PLANS, SPECIFICATIONS, AND DETAILS) ARE DIAGRAMMATICAL AND INDICATE THE GENERAL LOCATION AND INTENT OF THE ELECTRICAL SYSTEMS. WHERE DRAWINGS, EXISTING SITE CONDITIONS, SPECIFICATIONS OR OTHER TRADES CONFLICT OR ARE UNCLEAR, ADVISE THE GENERAL CONTRACTOR IN WRITING PRIOR TO SUBMITTAL OF BID. THE GENERAL CONTRACTOR IS RESPONSIBLE TO ADVISE THE ARCHITECT IN WRITING OF ANY VARIATIONS TO CONTRACT DOCUMENTS PRIOR TO SUBMISSION OF THE BID. OTHERWISE, ARCHITECT'S INTERPRETATION OF CONTRACT DOCUMENTS OR CONDITIONS SHALL BE FINAL WITH NO ADDITIONAL COMPENSATION PERMITTED.

- THE LOCATION OF OUTLETS AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SCHEMATIC IN NATURE. THE ARCHITECT SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ADDITIONAL COST.

J. HANGERS

- HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS ANGLE IRON, WIRE, UNISTRUT, C-CLAMPS WITH RETAINING CLIPS, CHANNELS, HANGER RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK.

- HANGERS SHALL BE FASTENED TO BUILDING STEEL, CONCRETE OR MASONRY, BUT NOT TO OTHER CONDUIT OR PIPING. HANGERS UPPER ATTACHMENT MUST BE SUPPORTED FROM THE TOP OF THE BAR JOIST. HANGING FROM METAL DECK IS NOT PERMITTED. WHERE INTERFERENCE OCCUR, IN ORDER TO SUPPORT CONDUIT, THE CONTRACTOR MUST INSTALL TRAPPEZ TYPE HANGERS OR SUPPORTS WHICH SHALL BE LOCATED WHERE THEY DO NOT INTERFERE WITH ACCESS TO FIRE DAMPERS, VALVES, JUNCTION BOXES, ACCESS DOORS, OTHER EQUIPMENT SERVICE REQUIREMENTS AND/OR OTHER TRADES.

K. SLEEVES

- THIS CONTRACTOR SHALL PROVIDE SLEEVES TO PROTECT EQUIPMENT OR FACILITIES IN THE INSTALLATION. EACH SLEEVE SHALL EXTEND THROUGH IT'S RESPECTIVE FLOOR, WALL OR PARTITION AND SHALL BE CUT FLUSH WITH EACH SURFACE EXCEPT SLEEVES THAT PENETRATE THE FLOOR, WHICH SHALL EXTEND 4" ABOVE THE FLOOR.

- ALL SLEEVES AND OPENINGS THROUGH FIRE RATED WALLS AND/OR FLOORS SHALL BE FIRE SEALED WITH CALCIUM SILICATE, SILICONE "RTV" FOAM, "3M" FIRE RATED SEALANTS OR EQUAL, SO AS TO RETAIN THEIR FIRE RATING.

- SLEEVES IN BEARING AND MASONRY WALLS, FLOORS AND PARTITIONS SHALL BE STANDARD WEIGHT STEEL PIPE FINISHED WITH SMOOTH EDGES. FOR OTHER THAN MASONRY PARTITIONS, THROUGH SUSPENDED CEILINGS, OR FOR CONCEALED VERTICAL CONDUIT, SLEEVES SHALL BE NO. 22 U.S.G. GALVANIZED STEEL MINIMUM.

BASIC ELECTRICAL MATERIALS AND METHODS

A. SCOPE OF WORK

- THIS CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, AND FACILITIES NECESSARY FOR, REASONABLY IMPLIED AND INCIDENTAL TO, THE FURNISHING, INSTALLATION, COMPLETION AND TESTING OF ALL THE WORK FOR THE ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS, AND AS REQUIRED BY JOB CONDITIONS, TO INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

- A COMPLETE ELECTRICAL DISTRIBUTION SYSTEM INCLUDING THE INSTALLATION OF ALL PANELBOARDS, SAFETY AND DISCONNECT SWITCHES, MOTOR STARTERS, LIGHTING CONTACTORS, LIGHTING AND TRANSFORMERS. CONTRACTOR TO INCLUDE IN BID FOR PROVIDING SERVICE EQUIPMENT NECESSARY FOR TIE-IN TO DISTRIBUTION EQUIPMENT OR TO OBTAIN SERVICE FROM LOCAL UTILITY COMPANY.

- CONTRACTOR MUST ALSO INCLUDE IN BID ALL NECESSARY MATERIALS REQUIRED TO COMPLETE THE SYSTEM INCLUDING, BUT LIMITED TO, FEEDERS, BRANCH CIRCUITS, JUNCTION BOXES, OUTLET BOXES, WIRING DEVICES, COVERPLATES, CONDUITS, ETC.

- THE WIRING OF MECHANICAL EQUIPMENT AS OUTLINED ON THE BID SET DRAWINGS AND IN THE SPECIFICATIONS, WORK SHALL INCLUDE WIRING OF ALL STARTERS, DISCONNECTS, AND POWER WIRING OF MECHANICAL EQUIPMENT EXCEPT AS SPECIFICALLY NOTED OTHERWISE. ALL LOW VOLTAGE (24 VOLT) TEMPERATURE CONTROL WIRING SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR UNLESS NOTED SPECIFICALLY ON DRAWING.

- INSTALLATION OF LIGHT FIXTURES AND LAMPS AS SHOWN ON THE DRAWINGS INCLUDING ALL DEVICES, EQUIPMENT, ETC. REQUIRED FOR MOUNTING.

- A COMPLETE CONDUIT SYSTEM FOR TELEPHONE/DATA INCLUDING TERMINAL BOARD, BRANCH CONDUITS, OUTLET BOXES, PULL WIRES, GROUND CONDUITORS, COVER PLATES, ETC. OR AS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.

- A COMPLETE EMERGENCY AND EXIT LIGHTING SYSTEM AS SHOWN ON THE DRAWINGS.

- TEMPORARY SERVICE AS INDICATED IN THE SPECIFICATIONS, INCLUDING IT'S REMOVAL.

2. WORK NOT INCLUDED

THE FOLLOWING ITEMS OF ELECTRICAL CONSTRUCTION ARE NOT INCLUDED IN THIS CONTRACT:

- 24 VOLT TEMPERATURE CONTROL WIRING UNLESS NOTED OTHERWISE.
- TELEPHONE INSTRUMENTS AND WIRING UNLESS NOTED OTHERWISE.
- DATA LINES WIRING UNLESS NOTED OTHERWISE.

- BEFORE STARTING WORK, THIS CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, STRUCTURAL, FIRE PROTECTION, MECHANICAL AND PLUMBING PLANS, SHOP DRAWINGS AND SPECIFICATIONS TO SEQUENCE, COORDINATE, AND INTEGRATE THE VARIOUS ELEMENTS OF THE ELECTRICAL SYSTEM, MATERIALS AND EQUIPMENT WITH OTHER CONTRACTORS TO AVOID INTERFERENCE AND CONFRONTATIONS.

B. CONDUIT

- THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS SERVING ALL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, LIGHTING, RECEPTACLES, HEATING, AIR CONDITIONING, PLUMBING EQUIPMENT, TELEPHONE, DATA, SPEAKERS, AND ELECTRICAL EQUIPMENT.

- ALL CONDUITS SHALL BE GALVANIZED EMT UNLESS OTHERWISE SPECIFIED IN SPECIFICATIONS OR ON DRAWINGS. ALL CONDUIT IS TO BE UL LABELED. EMT CONNECTORS SHALL BE STEEL COMPRESSION. CONDUIT UNDER SLAB ON GRADE SHALL BE RIGID STEEL, OR SCHEDULE 40 PVC WITH RIGID STEEL ELLS WHERE PERMITTED BY CODE.

- MINIMUM SIZE OF CONDUIT SHALL BE 1/2" FOR INDIVIDUAL LIGHTING FIXTURE CONNECTIONS OR TO INDIVIDUAL LIGHT SWITCHES AND 3/4" FOR ALL OTHER LOCATIONS. IF HVAC CONTROL WIRING IS REQUIRED TO BE RUN IN CONDUIT, IT SHALL BE A MINIMUM OF 3/4" UNLESS NOTED OTHERWISE ON DRAWINGS. ALL IN/UNDER FLOOR CONDUIT SHALL BE OF MINIMUM 3/4" SIZE.

- SUPPORT ALL CONDUIT, INCLUDING SEISMIC AND SWAY BRACING, IN ACCORDANCE WITH THE CEC AND LOCAL CODES.

- GENERALLY, ALL CONDUIT SHALL BE CONCEALED EXCEPT FOR UNFINISHED AREAS, SUCH AS EQUIPMENT ROOMS. EXPOSED CONDUIT SHALL BE ALLOWED ONLY AS NOTED ON PLAN AND AS APPROVED BY THE ARCHITECT. PAINTING OF CONDUITS, NOTED ON DRAWINGS OR SPECIFICATIONS WILL BE BY GENERAL CONTRACTOR.

6. FLEXIBLE METAL CONDUIT

- FLEXIBLE METAL CONDUIT MUST BE THE SAME SIZE AS OR EMT CONDUIT TO WHICH IT IS CONNECTED. BOTH THE FLEXIBLE METAL CONDUIT AND IT'S FITTINGS ARE TO BE LISTED FOR GROUNDING. A GREEN GROUNDING CONDUCTOR SHALL BE INSTALLED. ALL CONNECTORS ARE TO BE OF A NEMA APPROVED TYPE.

- CONNECTION TO OUTDOOR EQUIPMENT MUST BE WEATHERPROOF, I.E. LIQUID TIGHT OR SEALTIGHT.

- PROVIDE PULL-WIRE IN ALL EMPTY CONDUITS EXCEPT AS NOTED HERWISE ON DRAWINGS.

- HOME RUNS AND MAIN CONDUIT RUNS ARE TO BE HELD TIGHT TO STRUCTURE ABOVE OR AS REQUIRED TO ALLOW PROPER SERVICE ACCESS AND OTHER TRADES WORK. CONDUIT MUST BE TRAPEZED TO ALLOW 3 FEET MINIMUM CLEARANCE ABOVE CEILING.

- ALL CONDUITS MUST BE SIZED PER CEC AND OTHER LOCAL CODES.

C. OUTLET BOXES

- ALL OUTLET BOXES TO BE NON-METALLIC AND OF THE STANDARD KNOCKOUT TYPE. CONCEALED BOXES SHALL NOT BE LESS THAN 4" SQUARE AND 1-1/2" DEEP, WITH PLASTER RINGS.

- ALL KNOCKOUT BOXES, UPON WHICH LIGHTING FIXTURES ARE TO BE INSTALLED, SHALL BE EQUIPPED WITH 3/8" FIXTURE STUDS.

- EXTERIOR BOXES SHALL BE CAST RUST-RESISTING METAL WITH GASKETED COVERS.

- INSTALL BOXES RIGIDLY FROM BUILDING STRUCTURE AND SUPPORT INDEPENDENTLY OF THE CONDUIT SYSTEM. ALSO PROVIDE SUITABLE BOX EXTENSIONS TO EXTEND BOXES TO FINISHED FACES OF FLOORS, CEILINGS, WALLS ETC. ALL OUTLET BOXES TO BE PROVIDED WITH CEILING, WALLS ETC. ALL OUTLET BOXES TO BE PROVIDED WITH CADDY "QUICK-MOUNT BOX SUPPORT" TO MINIMIZE THE DEFLECTION THAT OCCURS WHEN PLUGGING/UNPLUGGING INTO THESE DEVICES.

- UNLESS OTHERWISE NOTED ON DRAWINGS OR OTHERWISE REQUIRED BY THE CALIFORNIA ELECTRICAL CODE, HANDICAP CODES OR LOCAL CODES, OUTLET HEIGHTS SHALL BE AS FOLLOWS:

- SWITCH HEIGHT 42" FROM FINISHED FLOOR TO CENTERLINE OF OUTLET.
- CONVENIENCE OUTLETS: SALES AND NON-18" FROM FINISHED FLOOR TO CENTERLINE OF OUTLET.
- TELEPHONE OUTLETS SHALL BE LOCATED AS NOTED ON DRAWINGS.

- JUNCTION AND PULL BOXES

- THE PLANS INDICATE ONLY SCHEMATIC ROUTINGS FOR CONDUIT RUNS. THIS CONTRACTOR SHALL FURNISH AND INSTALL ADDITIONAL BOXES WHERE REQUIRED BY FIELD CONDITIONS OR BY CODE.

- INSTALL BOXES RIGIDLY SUPPORTED FROM THE BUILDING STRUCTURE AND SUPPORTED INDEPENDENT OF THE CONDUIT SYSTEM.

- ARRANGE CIRCUITS TO AVOID THE USE OF JUNCTION BOXES IN INACCESSIBLE LOCATIONS. THE USE OF JUNCTION BOXES ABOVE DRYWALL CEILINGS SHOULD AT LOCATIONS NEAR ACCESS FRAMES USED FOR DIFFUSERS AND RETURN AIR GRILLES OR ACCESS PANELS AS LOCATED ON PLANS.

- JUNCTION AND PULL BOXES MUST BE LABELED WITH CIRCUIT NUMBER IDENTIFICATION AND SYSTEM TYPE ON COVER.

E. WIRING

- CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS SHALL BE COPPER AND THE AWG SIZE AND TYPE AS SHOWN ON DRAWINGS. MINIMUM WIRE SIZE #14. THE CONDUCTORS SHALL BE 600 VOLT INSULATION, TYPE THAW, THNN OR THHN.

- MINIMUM WIRE SIZE - 20 AMP BRANCH CIRCUIT SHALL BE AWG LISTED SIZE PER DISTANCE SHOWN BELOW. DISTANCE SHALL BE MEASURED FROM THE PANELBOARD CIRCUIT BREAKER TO THE FURTHEST OUTLET.

- #12 LESS THAN 100 FEET.
- #10 BETWEEN 100-150 FEET.
- #8 BETWEEN 150-250 FEET.
- #6 OVER 250 FEET.

- ON ALL 20 AMP BRANCH CIRCUITS, CONDUCTORS LARGER THAN #10 AWG SHALL BE REDUCED TO #10 AWG WITHIN 10 FEET OF PANELBOARD AND DEVICE IN JUNCTION BOXES ON RATED TERMINAL STRIPS.

- CONDUCTORS MAY BE STRANDED FOR SIZED #10 AWG AND LARGER. CONDUCTORS SIZE #12 SHALL BE SOLID.

- CONDUCTOR CONNECTION MUST BE PER MANUFACTURER'S REQUIREMENTS. CONTRACTOR MUST ADVISE GENERAL CONTRACTOR AND THE ARCHITECT WHEN USED.

- THE USE OF SHARED NEUTRALS IS REQUIRED FOR LIGHTING CIRCUITS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE AND OTHER LOCAL CODES. ALL OTHER EQUIPMENT REQUIRING A NEUTRAL CONDUCTOR SHALL HAVE A DEDICATED FULL SIZE NEUTRAL.

- WIRE CONNECTORS SHALL BE EQUAL TO "SCOTCH LOCK" FOR #8 AWG WIRE AND SMALLER AND EQUAL TO T & B "LOCKTIGHT" FOR #6 AWG AND LARGER.

- ALL WIRING TO BE COLOR-CODED AS FOLLOWS:
NEUTRAL - WHITE
PHASE A OR L1 - BLACK
PHASE B OR L2 - RED
PHASE C OR L3 - BLUE
GROUND - GREEN

- THE USE OF ROMEX, BX, ETC. IS NOT PERMITTED.

F. WIRING DEVICES

- THIS CONTRACTOR SHALL FURNISH AND INSTALL SWITCHES AND RECEPTACLES, UNLESS NOTED OTHERWISE, AS NECESSARY FOR A COMPLETE INSTALLATION. THE DEVICES SHALL BE BY LEVITON MFG. COMPANY INC. OR PASS & SEYMOUR/LEGRAND OR EQUAL. WEATHERPROOF GFI RECEPTACLES SHALL BE INSTALLED WHERE SHOWN ON DRAWINGS OR AS REQUIRED BY CODE. MATCH TYPE AND COLOR WITH THOSE IN EXISTING FACILITY.

- SAFETY AND DISCONNECT SWITCHES

- SAFETY AND DISCONNECT SWITCHES SHALL BE GENERAL DUTY TYPE, QUICK-MAKE, QUICK-BREAK FUSED OR NON-FUSIBLE WITH RATINGS AND SIZES AS NOTED ON PLANS AND REQUIRED BY CODES.

- SWITCHES SHALL BE WEATHERPROOF IN OUTDOOR LOCATIONS OR AS REQUIRED BY LOCAL CODES. DISCONNECT SWITCHES THAT ARE INSTALLED AT HEATING, VENTILATING AND AIR CONDITIONING (HVAC) EQUIPMENT SHALL BE FUSED IF NOT PROTECTED WITH A "HACR" BREAKER IN ACCORDANCE WITH THE EQUIPMENT'S NAMEPLATE AND MANUFACTURER'S REQUIREMENTS PER THE CALIFORNIA ELECTRICAL CODE, OTHER STATE AND LOCAL CODES.

- AT SERVICE ENTRANCE, DISCONNECT SHALL BEAR THE MANUFACTURER'S LABEL INDICATING THE EQUIPMENT IS UL RATED FOR APPLICATION IN ACCORDANCE WITH ALL CODES.

H. GROUNDING

- FURNISH AND INSTALL COMPLETE WIRED GROUNDING CONDUCTOR SYSTEM, #12 AWG MINIMUM, SIZED AND INSTALLED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE CALIFORNIA ELECTRICAL CODE, OTHER STATE AND LOCAL CODES, AND AS NOTED IN THE SPECIFICATIONS AND AS INDICATED ON THE DRAWINGS.

- ALL CONDUIT, INCLUDING FLEXIBLE CONDUIT, SHALL BE GROUNDED WITH A GREEN GROUNDING CONDUCTOR.

- GROUNDING CONNECTIONS MADE TO THE WATER PIPING SYSTEM SHALL BE COORDINATED WITH THE PLUMBING CONTRACTOR AND BONDING JUMPERS INSTALLED AROUND WATER METER PER CODES AND AS INDICATED ON DRAWINGS.

- ALL DEVICES SHALL BE BONDED TO THE CONDUIT SYSTEM. USE A BONDING JUMPER BETWEEN THE OUTLET BOX AND THE DEVICE GROUNDING TERMINAL. METAL-TO-METAL CONTACT BETWEEN THE DEVICE YOKE AND THE OUTLET BOX IS NOT ACCEPTABLE AS A BOND FOR EITHER SURFACE MOUNTED BOXES OR FLUSH TYPE BOXES. ALL JUNCTION BOXES, OUTLET BOXES, AND PULL BOXES SHALL BE BONDED TO THE CONDUIT SYSTEM.

- RUN A SEPARATE ISOLATED GROUNDING CONDUCTOR, #12 AWG MINIMUM, IN EACH CONDUIT FEEDING THE CASH WRAP, THE SENSOR, HVAC CONTROL PANEL, AND OTHER COMPUTERIZED EQUIPMENT AS SHOWN ON DRAWINGS.

- FOR PANEL FEEDERS, BOND THE GROUNDING CONDUCTOR TO THE CONDUIT, WHERE ENTERING AND LEAVING THE CONDUIT. THE GROUNDING CONDUCTOR SHALL BE COPPER WITH GREEN IDENTIFICATION AND SIZED PER SEC..

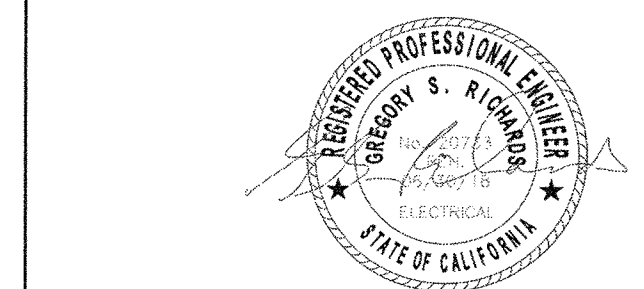
- ALL ENCLOSURES AND NON CARRYING METAL PARTS ARE TO BE GROUNDED. CONDUIT SYSTEM IS TO BE ELECTRICALLY CONTINUOUS. ALL LOCKOUTS MUST CUT THROUGH ENAMELED OR PAINTED SURFACES ON ENCLOSURES. WHERE ENCLOSURES AND NON CARRYING METAL PARTS ARE ISOLATED FROM THE CONDUIT SYSTEM, USE BONDING JUMPERS WITH APPROVED CLAMPS. ALL GROUND CLAMPS SHALL BE "PENN" OR EQUAL, SIMILAR TO "GPI" TYPE.

- PANELBOARDS.

- ALL PANELBOARDS SHALL BE SQUARE D NOOD SERIES OR APPROVED EQUAL.

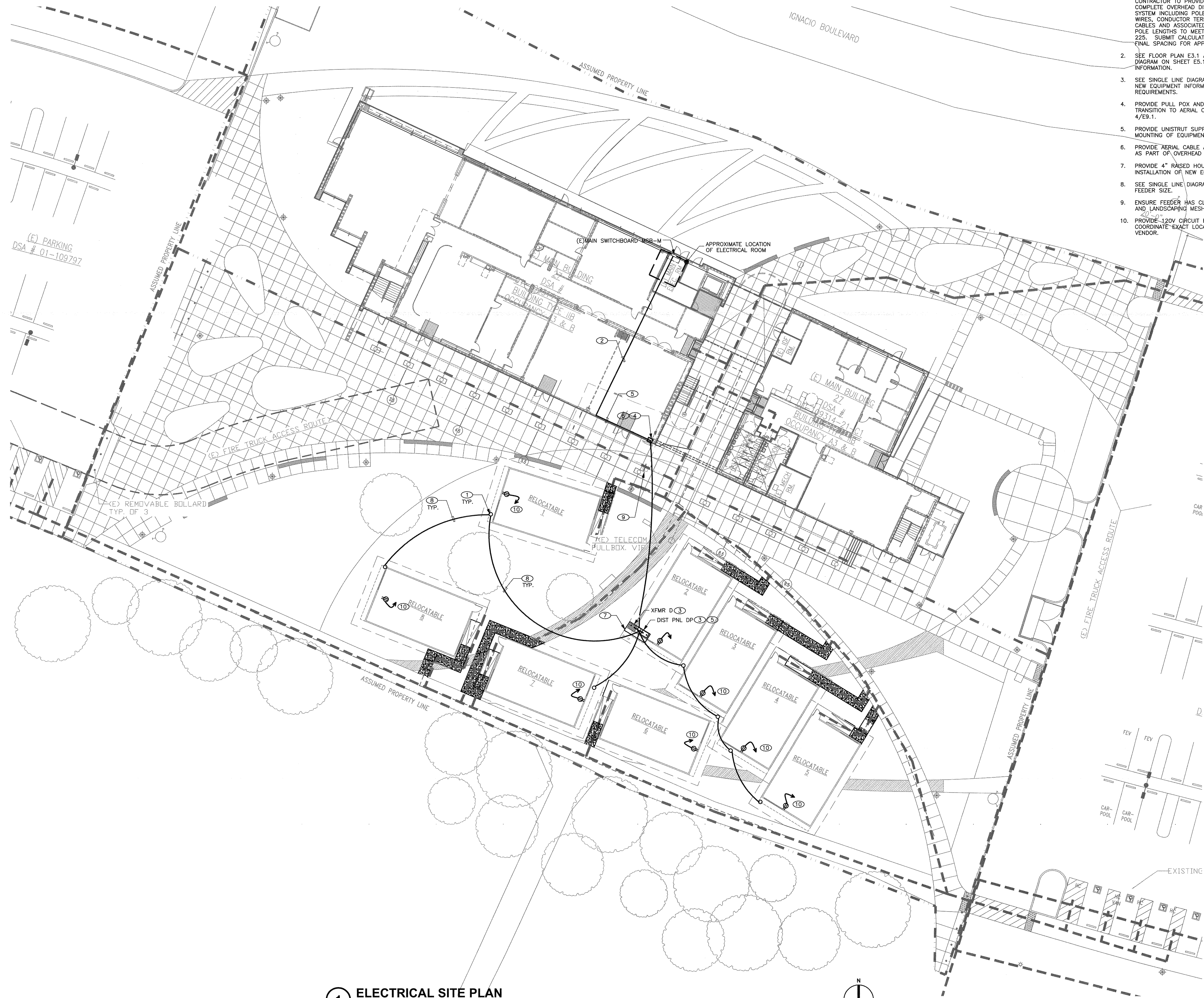
- CONTRACTOR SHALL FURNISH AND INSTALL A TYPEWRITTEN DIRECTORY CARD OF THE CIRCUITS AND PLACE IN PANEL DOOR.

- ALL PANELBOARDS PHASE AMPERAGE SHALL BE BALANCED TO WITHIN 7 PERCENT MAX. TO MIN. REARRANGE NON-LIGHTING BRANCH CIRCUITS AS REQUIRED AND NOTE CHANGES ON RECORD DRAWINGS. LIGHTING PANEL CIRCUIT BREAKERS MUST BE INSTALLED AND WIRED EXACTLY AS SHOWN ON DRAWINGS.



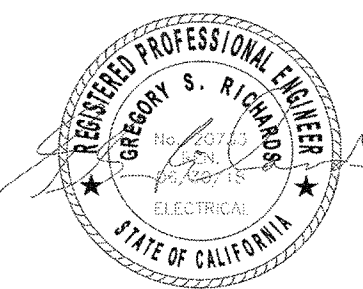
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APPL 01-117316
DATE 8/11/18

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KEYED NOTES

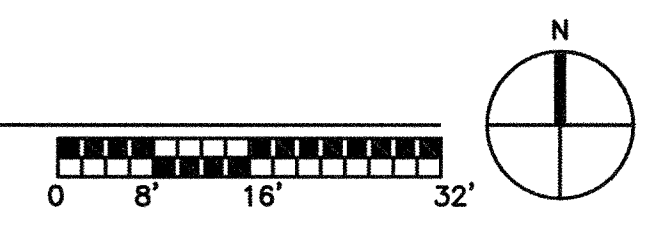
1. POLE MOUNTED TO STRUCTURE FOR TEMPORARY POWER AND COMMUNICATIONS, REFER TO SINGLE LINE DIAGRAMS FOR AERIAL FEEDERS. CONTRACTOR TO PROVIDE AND INSTALL A COMPLETE OVERHEAD DISTRIBUTION AERIAL CABLE SYSTEM INCLUDING POLES, SUPPORTS, GUY WIRES, CONDUCTOR TERMINATIONS, MESSENGER CABLES AND ASSOCIATED HARDWARE. PROVIDE POLE LENGTHS TO MEET CLEARANCES PER CEC 225. SUBMIT CALCULATIONS OF CABLE SAG AND FINAL SPACING FOR APPROVAL.
2. SEE FLOOR PLAN E3.1 AND SINGLE LINE DIAGRAM ON SHEET E5.1 FOR ADDITIONAL INFORMATION.
3. SEE SINGLE LINE DIAGRAM ON SHEET E5.1 FOR NEW EQUIPMENT INFORMATION AND REQUIREMENTS.
4. PROVIDE PULL BOX AND SUPPORTS TO TRANSITION TO AERIAL CABLES. SEE DETAIL 4/ES.1.
5. PROVIDE UNISTRUT SUPPORTS AS REQUIRED FOR MOUNTING OF EQUIPMENT.
6. PROVIDE AERIAL CABLE ATTACHMENT TO BUILDING AS PART OF OVERHEAD DISTRIBUTION DESIGN.
7. PROVIDE 4" RAISED HOUSEKEEPING PAD FOR INSTALLATION OF NEW EQUIPMENT.
8. SEE SINGLE LINE DIAGRAM ON SHEET E5.1 FOR FEEDER SIZE.
9. ENSURE FEEDER HAS CLEARANCE AROUND POLE AND LANDSCAPING MESH.
10. PROVIDE 120V CIRCUIT FOR FIRE ALARM. COORDINATE EXACT LOCATION WITH FIRE ALARM VENDOR.



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1 ELECTRICAL SITE PLAN
SCALE: 1/16"=1'-0"

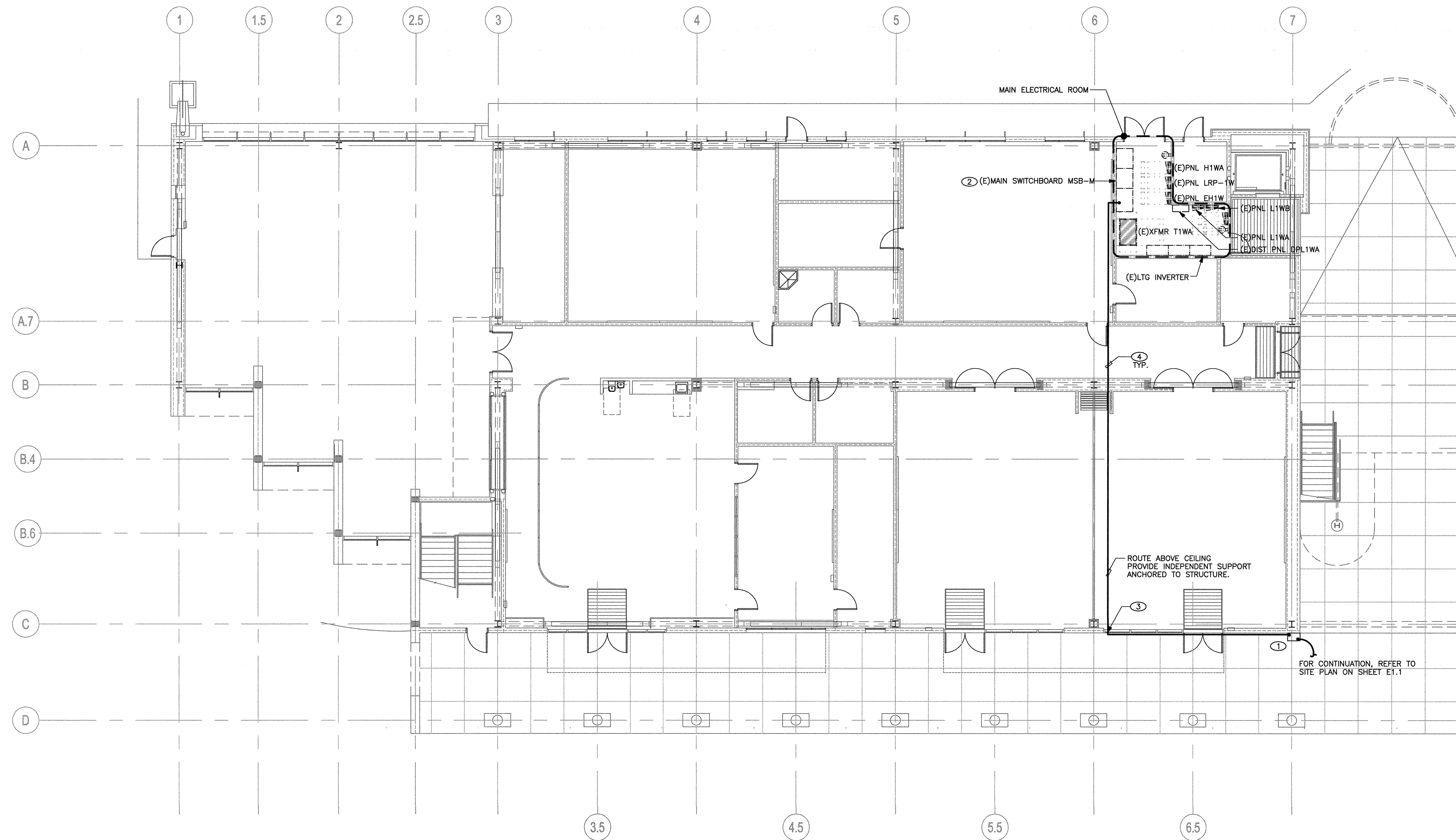


SHEET NOTES

A. REFER TO SINGLE LINE DIAGRAM ON SHEET ES.1 FOR MORE INFORMATION.

KEYED NOTES

1. PROVIDE PULL BOX AND SUPPORTS TO TRANSITION TO AERIAL CABLES.
2. PROVIDE NEW CIRCUIT BREAKER IN MAIN SWITCHBOARD MSB-M TO FEED NEW TRANSFORMER SHOWN ON SITE PLAN E1.1. REFER TO SINGLE LINE DIAGRAM ON SHEET ES.1 FOR MORE INFORMATION.
3. SEAL PENETRATION THROUGH ALL EXTERIOR WALLS. SEE DETAIL 3/ES.1.
4. SEAL ALL FIRE WALL PENETRATIONS. SEE DETAIL 5/ES.1.



1 ELECTRICAL POWER PLAN - WEST

SCALE: 1/8"=1'-0"



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rev. date issue

COLLEGE OF MARIN
 INTERIM HOUSING

Sheet Project # 125-35612

AE Project # 75-18802 date: 01-10-2018

drawn by: PJ checked by: GR

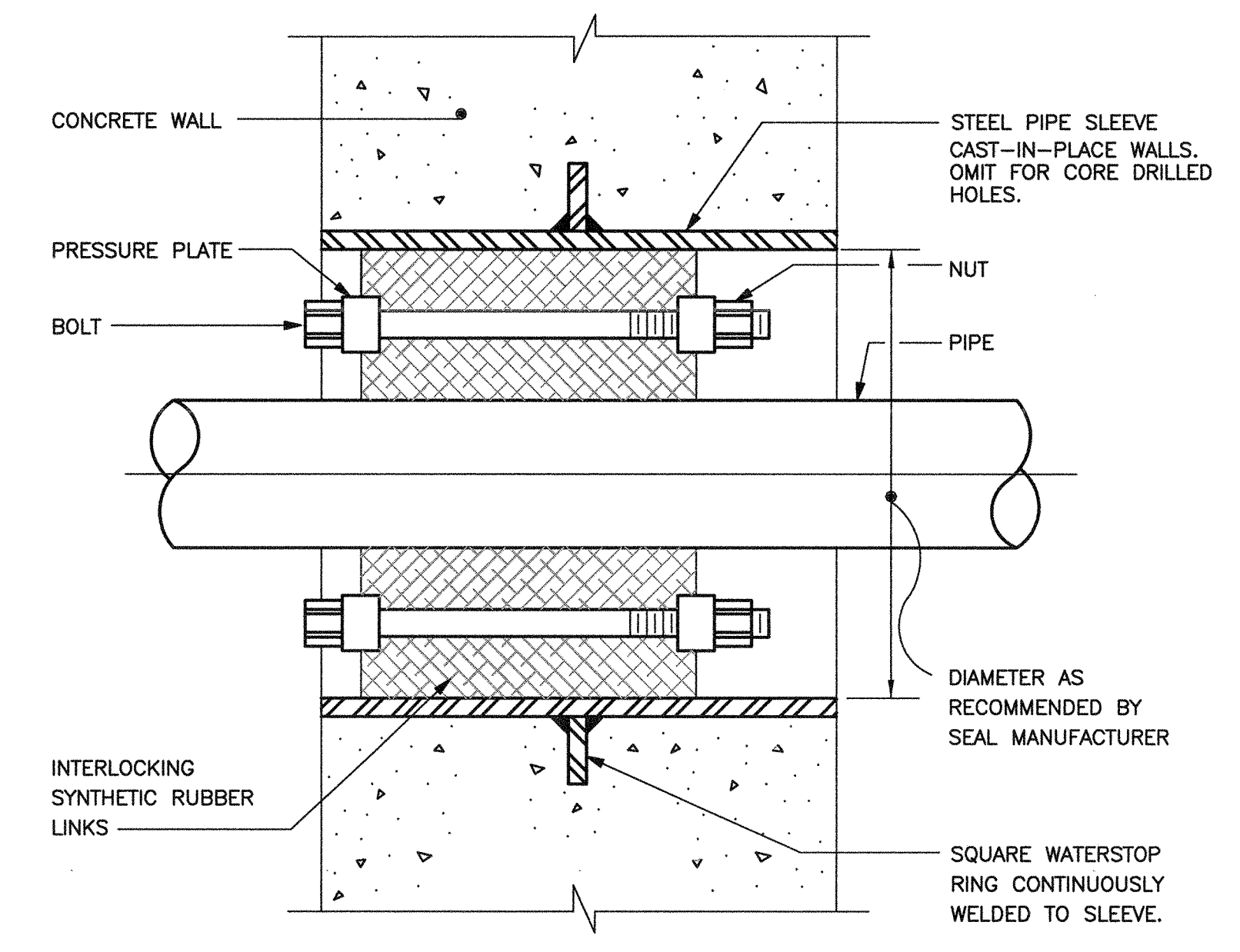
scale: 1/8"=1'-0"

ELECTRICAL
 POWER & SIGNAL PLAN - WEST

E3.1

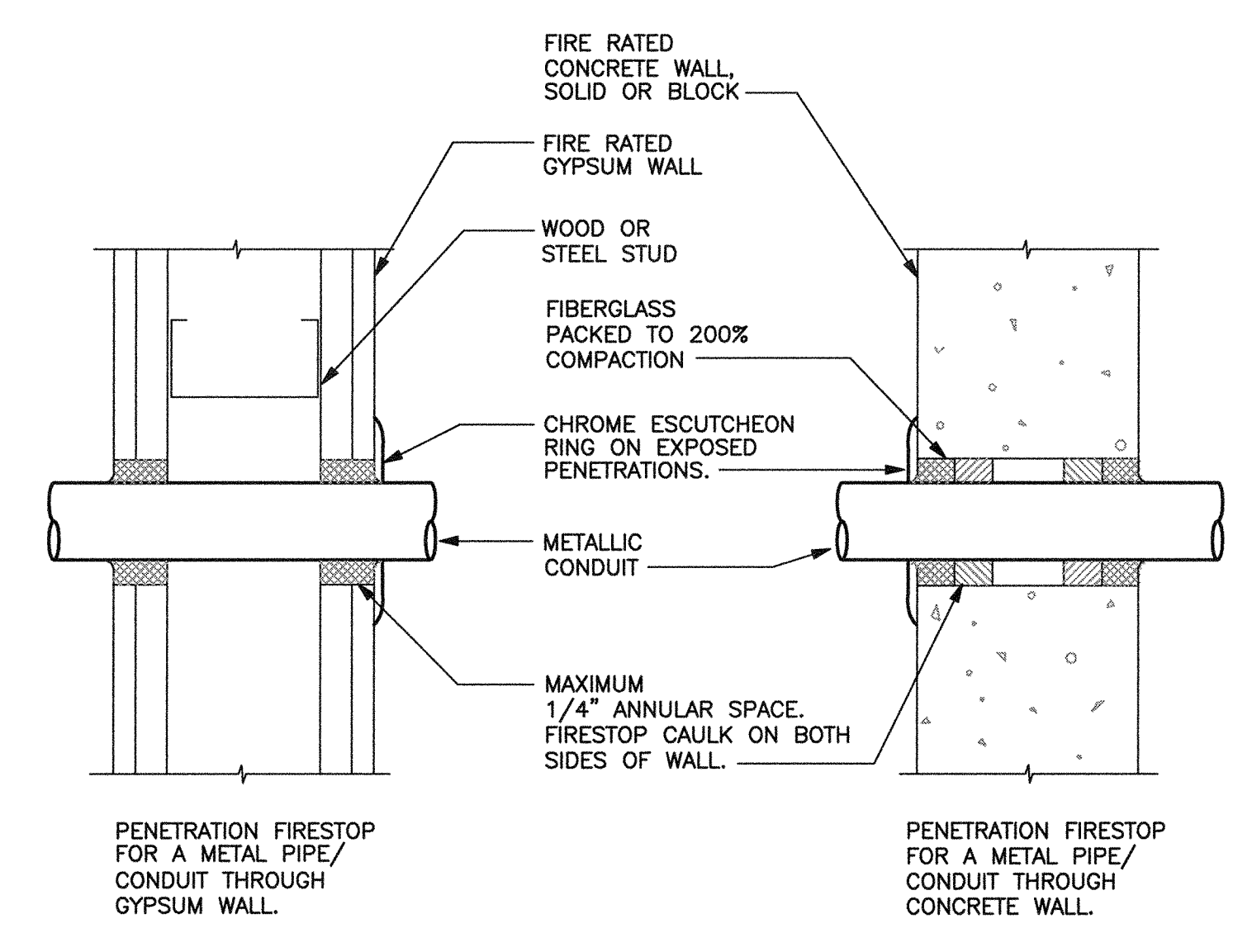


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 DATE 1/10/18



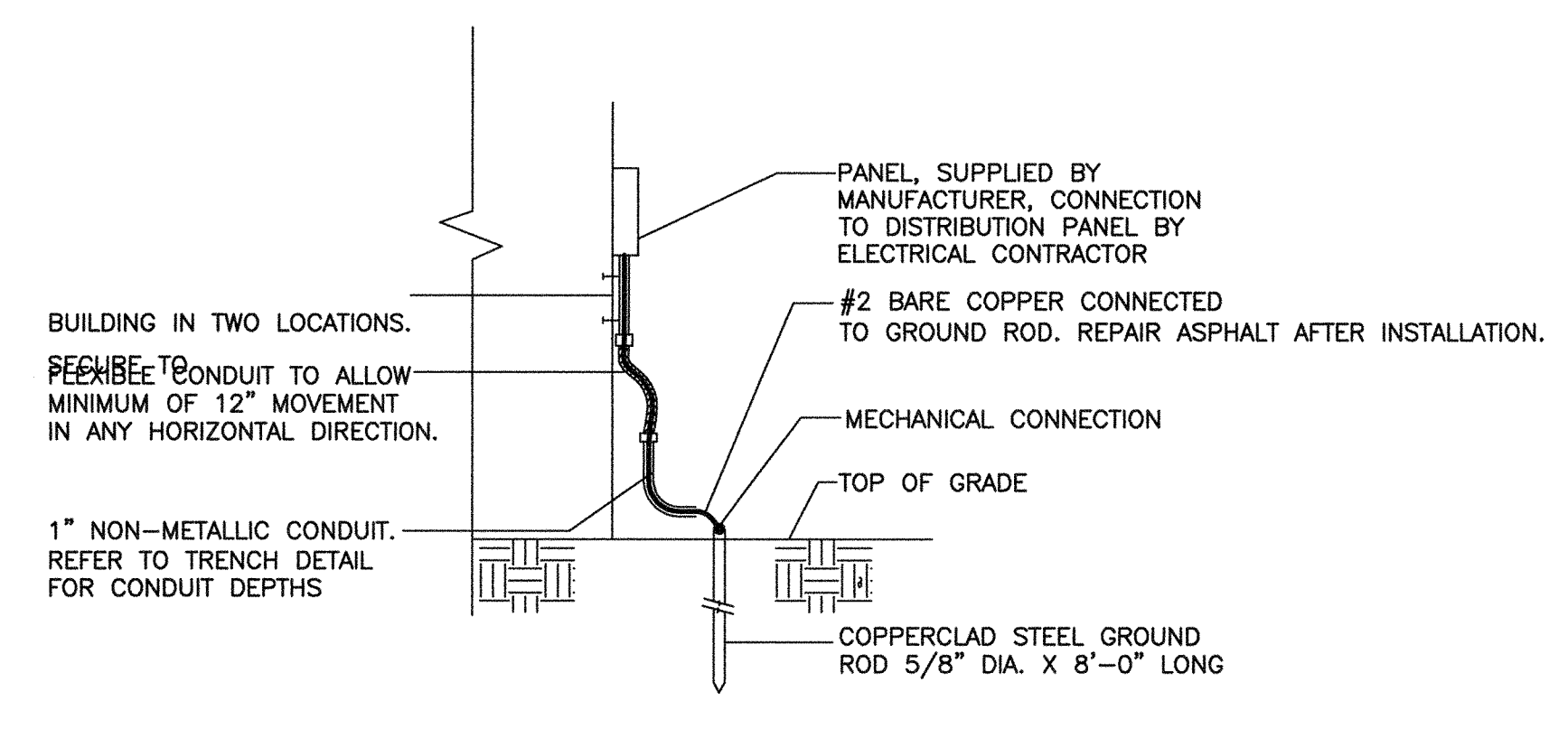
NOTES
 A. FOR SUB GRADE PENETRATIONS DEEPER THAN 5' BELOW ADJACENT FINISH GRADE.

3 EXTERIOR WALL PENETRATION
 SCALE: NONE 16140-20



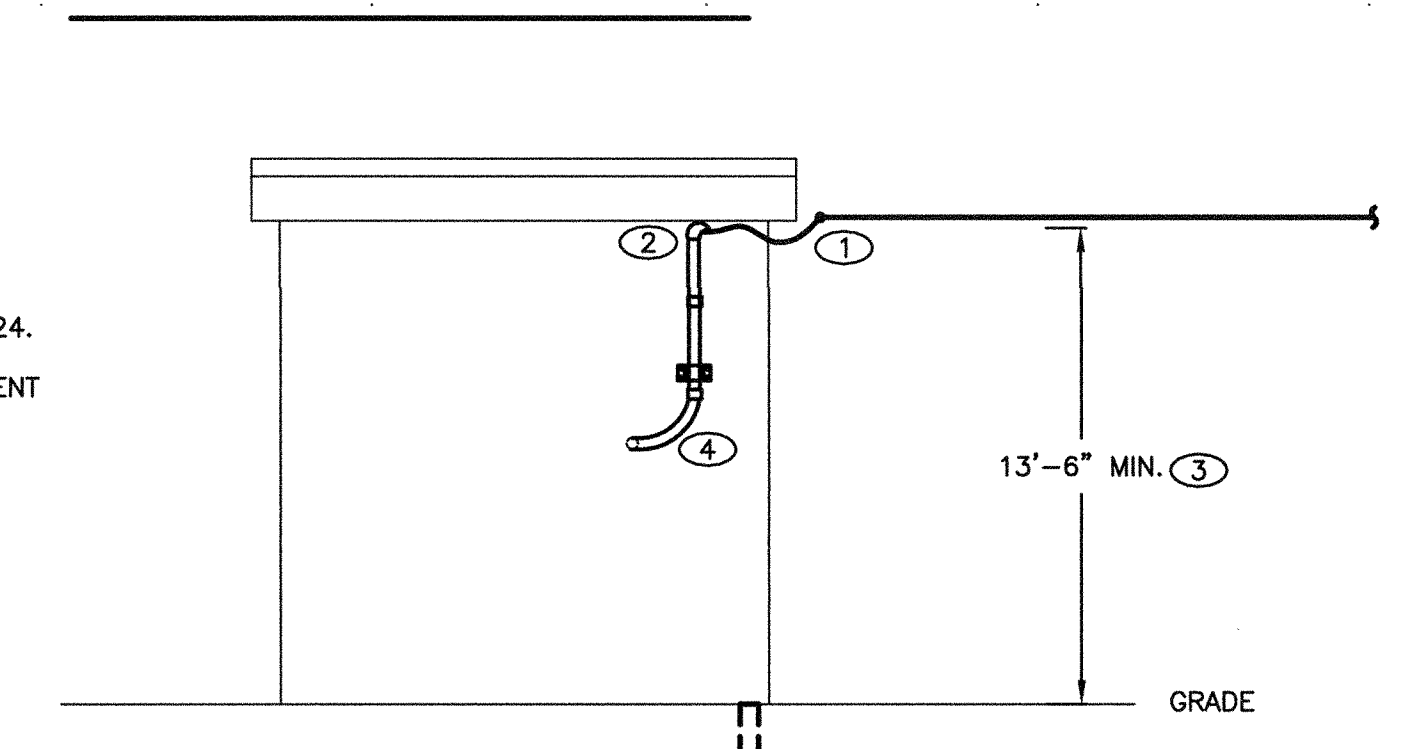
NOTES
 A. INSTALL FIRE STOP SYSTEMS IN STRICT CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS.
 B. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE RATED WALLS AND FLOORS.
 C. VERIFY UL APPROVED DETAIL REQUIRED FOR EACH CONDITION WITH ARCHITECT. SUBMIT FOR APPROVAL COPY OF DETAIL TO BE USED, PRIOR TO INSTALLATION.

4 FIRE RATED WALL CONDUIT PENETRATION
 SCALE: NONE 16140-21

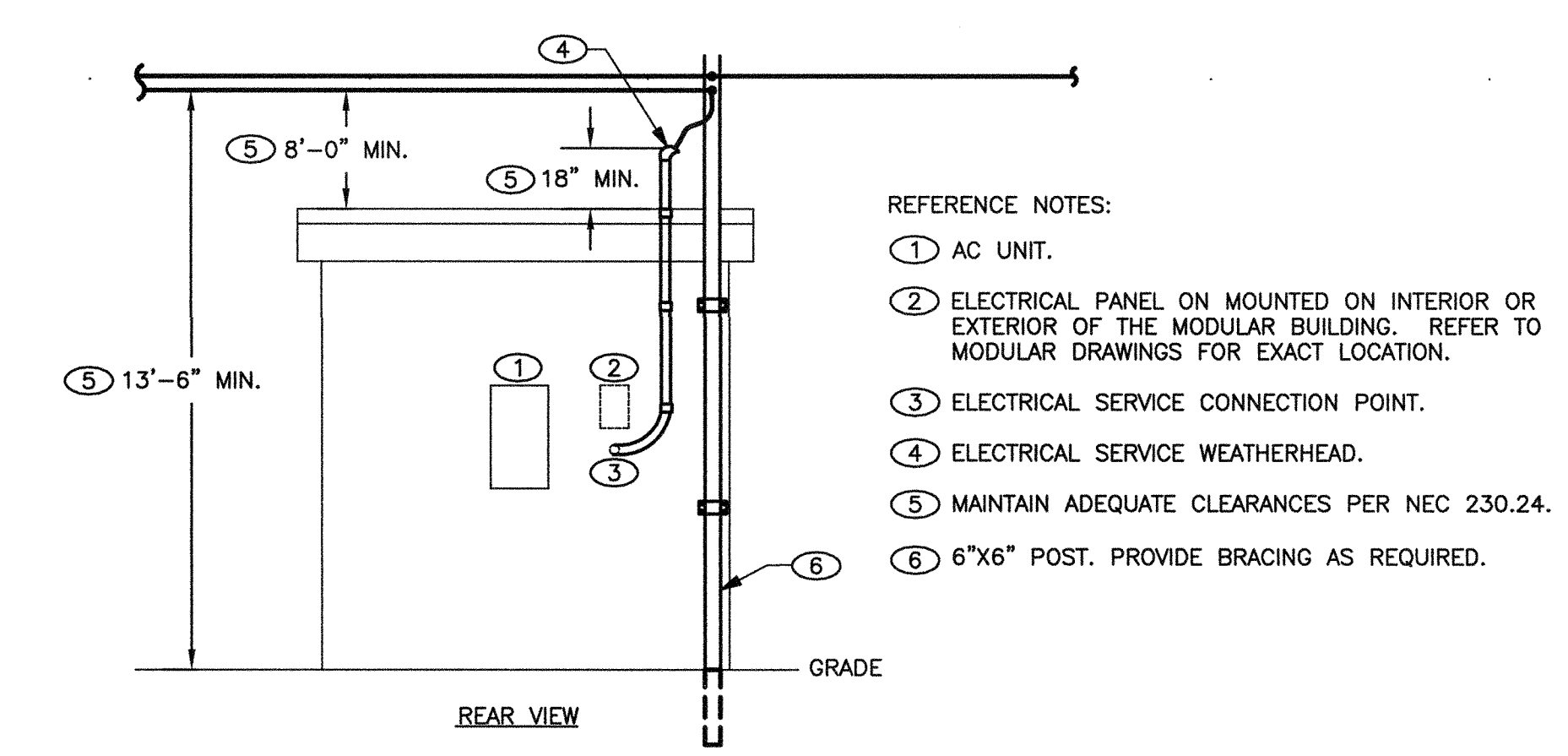


2 MODULAR BUILDING CONNECTION AND GROUNDING DETAIL
 SCALE: NONE

REFERENCE NOTES:
 1 ELECTRICAL CONNECTION POINT.
 2 ELECTRICAL SERVICE WEATHERHEAD.
 3 MAINTAIN ADEQUATE CLEARANCES PER NEC 230.24.
 4 PROVIDE ALL MOUNTING HARDWARE AND EQUIPMENT FOR A COMPLETE INSTALLATION.



4 OVERHEAD CONNECTION FROM EXISTING BUILDING
 SCALE: NONE



REFERENCE NOTES:
 1 AC UNIT.
 2 ELECTRICAL PANEL ON MOUNTED ON INTERIOR OR EXTERIOR OF THE MODULAR BUILDING. REFER TO MODULAR DRAWINGS FOR EXACT LOCATION.
 3 ELECTRICAL SERVICE CONNECTION POINT.
 4 ELECTRICAL SERVICE WEATHERHEAD.
 5 MAINTAIN ADEQUATE CLEARANCES PER NEC 230.24.
 6 6"x6\"/>

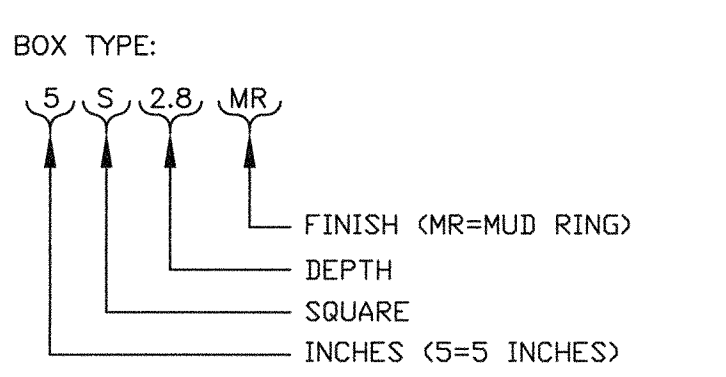
1 MODULAR BLDG. SERVICE CONNECTION
 SCALE: NONE

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NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS ARE APPLICABLE TO THIS PROJECT. REFER TO DETAILS AND NOTES FOR MOUNTING HEIGHTS.

WIRING		SIGNAL DEVICES		ABBREVIATIONS	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
---	NEW WORK	←W→	TERMINAL/MOUNTING BOARD, 8" HIGH, 3/4"x4" WIDTH AS SHOWN, FIRE RETARDANT TREATED PLYWOOD A/C GRADE.	(E)	EXISTING TO REMAIN
---	WIRING CONCEALED IN FLOOR OR UNDER GRADE OR ROUTED IN CEILING SPACE OF FLOOR BELOW.	⬇	SIGNAL SYSTEM EQUIPMENT ENCLOSURES AS NOTED- SURFACE, RECESSED MOUNTED	(F)	FUTURE
(E)	EXISTING WORK TO REMAIN	⬆	DATA OUTLET - WALL, # = QTY CABLES. IF NO NUMBER INDICATED, PROVIDE (3) CAT 6 CABLES. XXX = ROOM NUMBER YY = OUTLET NUMBER. REFERENCE OUTLET SCHEDULE.	(R)	EXISTING TO BE REMOVED
(D)	EXISTING WORK TO BE REMOVED	⬆	ONE PORT TEL. OUTLET - WALL, PROVIDE (1) CAT 6A CABLE. MOUNTING HEIGHT PER ARCH. DRAWINGS ELEVATIONS.	(RL)	EXISTING TO BE RELOCATED
(F)	FUTURE WORK	⬆	TWO PORT MODULAR FURNITURE OUTLET, PROVIDE (2) CAT 6A CABLES TO EACH LOCATION TERMINATED ON A MODULAR RJ-45 JACK AT FURNITURE RACEWAY.	AB	ABOVE COUNTER BACKSLASH
T	TELEPHONE SYSTEM CONDUIT	⬆	TV OUTLET - WALL MOUNTED OR CEILING. PROVIDE (1) CAT 6A CABLE AND (1) RG6 COAX CABLE TV HEIGHT PER ARCHITECTURAL DRAWINGS.	ACU	AIR CONDITIONING UNIT
MV	MEDIUM VOLTAGE CONDUIT	⬆	SPEAKER - WALL, CEILING	AC	ALTERNATING CURRENT
G	BARE GROUNDING GRID OR CONDUCTORS, UON.	⬆	VOLUME CONTROL - WALL, X INDICATES SPEAKER ZONE.	A AMP	AMPERES
GC	GROUNDING CONDUCTOR(S) ROUTED IN CODE SIZED CONDUIT, UON.	⬆	AV INPUT OUTLET, 1" C WITH 3-GANG BOX. CONDUIT STUBBED ABOVE ACCESSIBLE TILE CEILING.	ADJ	ADJACENT
⬆	STROKES INDICATE QUANTITY OF #12 AWG. CONDUCTORS, UON. NOTE: WIRING STROKES FOR 20A BRANCH CIRCUITS ARE NOT SHOWN ON DRAWINGS. CONTRACTOR SHALL USE INFORMATION IN PANEL AND BRANCH CIRCUIT SCHEDULES TO PROVIDE REQUIRED CIRCUITING.	⬆	RF COAX CABLE DISTRIBUTION AMPLIFIER. PROVIDE 120V POWER AS REQUIRED OR AS INDICATED. SEE RISER DIAGRAM.	AF	AMPERE (RATED) FUSE OR CB FRAME
⬆	GROUND	⬆	SHARED FLOOR BOX DEVICE FOR POWER/DATA/AV - FLUSHED TO FINISHED FLOOR. # = QTY CABLES. IF NO NUMBER INDICATED, PROVIDE (2) CAT 6A CABLES.	AFF	ABOVE FINISHED FLOOR
⬆	HOT	⬆	PEDESTAL FLOOR DEVICE - DEVICE TYPE PER SYMBOLS ABOVE	AFG	ABOVE FINISHED GRADE
⬆	NEUTRAL	⬆	SPEAKER - SURFACE CEILING, RECESSED CEILING, # = ZONE	AHJ	AUTHORITY HAVING JURISDICTION
⬆	HOME RUN WIRING TO INDICATED DESTINATION, 3/4" C. MIN. OR AS OTHERWISE NOTED. CONTRACTOR SHALL USE CIRCUIT SIZES NOTED IN RESPECTIVE SCHEDULES AND INFORMATION IN THE FEEDER AND BRANCH CIRCUIT SCHEDULES.	⬆	PAGING OR PAGING/SOUND MASKING SPEAKER, MOUNTED ABOVE ACOUSTIC TILE CEILING.	AIC	EQUIPMENT SHORT CIRCUIT INTERRUPT RATING (RMS SYM. AMPS)
⬆	CONDUIT RUN TURNED UP THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED.	⬆	WIRELESS ACCESS POINT. PROVIDE (2) CAT 6A CABLES.	AL	ALUMINUM (ALLOY)
⬆	CONDUIT RUN TURNED DOWN THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED.	⬆		ALC	AUTOMATIC LIGHTING CONTROL
⬆	CONDUIT STUBBED OUT AT LOCATION SHOWN. PROVIDE INSULATED BUSHING & PULLROPE.	⬆		AS	AMPERE (RATED) SWITCH
⬆	TELEPHONE/DATA SLEEVE THROUGH WALL, ABOVE CEILING. EXTEND TO ACCESSIBLE TILE CLG. BOTH SIDES. TERMINATE WITH BUSHINGS. (1) 1.25" CD UON, COORDINATE LOCATIONS WITH CABLE INSTALLER(S) PRIOR TO ROUGH-IN.	⬆		AT	CIRCUIT BRKR TRIP SETTING (AMPS)
⬆	BASKET TYPE CABLE TRAY WITH 90 DEGREE ELBOW SHOWN	⬆		ATS	AUTOMATIC TRANSFER SWITCH
⬆	LADDER TYPE CABLE TRAY WITH 90 DEGREE ELBOW SHOWN	⬆		AUTO	AUTOMATIC
⬆	JUNCTION BOXES, WALL, CEILING AND FLUSH FLOOR MOUNTED. 4" SQ. BOX MIN., LARGER IF REQUIRED	⬆		AUX	AUXILIARY
⬆	WIRING EXTENSION POINT - CONDUIT TO MC CABLE OR MANUFACTURED WIRING SYSTEM J-BOX ABOVE ACCESSIBLE CEILING AREAS, OR EXTEND CONDUIT & WIRE IN EXPOSED OR "HARD" CEILING AREAS. SHADED ON ALT. POWER SOURCE (EMERG, UPS, ETC.)	⬆		AWG	AMERICAN WIRE GAUGE
⬆	PULL BOX, MIN. SIZE PER NEC., UON.	⬆		BATT	BATTERY
⬆	UNDERFLOOR RACEWAY	⬆		BC	BARE COPPER
⬆	FLEXIBLE CONDUIT CONNECTION	⬆		BG	BELOW GRADE
⬆	POWER CONNECTION TO DIV 15 FIRE/SMOKE DAMPER. REFER TO FSD CONNECTION DETAIL IF NOT SHOWN	⬆		BRKR	CIRCUIT BREAKER

SYMBOL	MOUNTING HEIGHT	BOX TYPE
⬆	+18" AFF UON	5S2.8MR
⬆	ABOVE CEILING	-

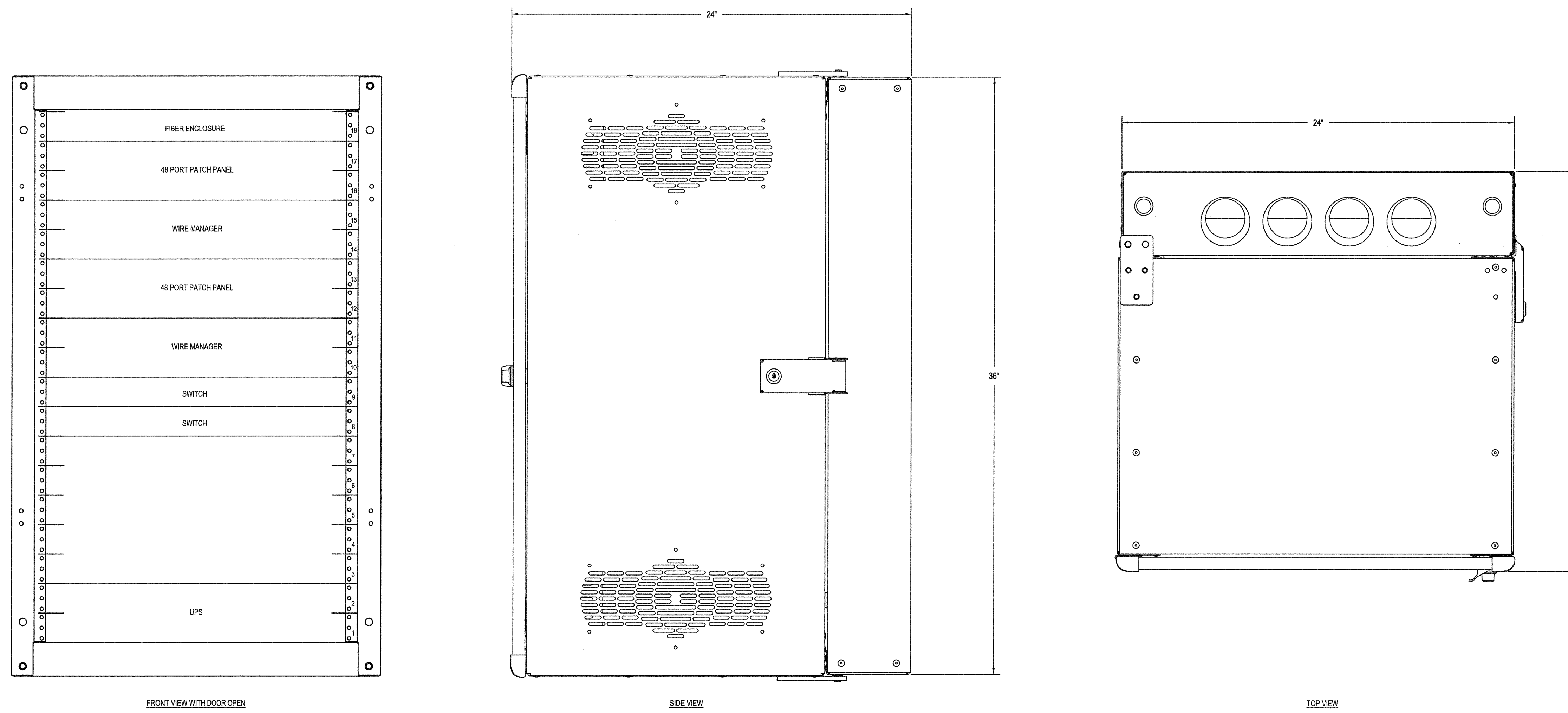


GENERAL NOTES

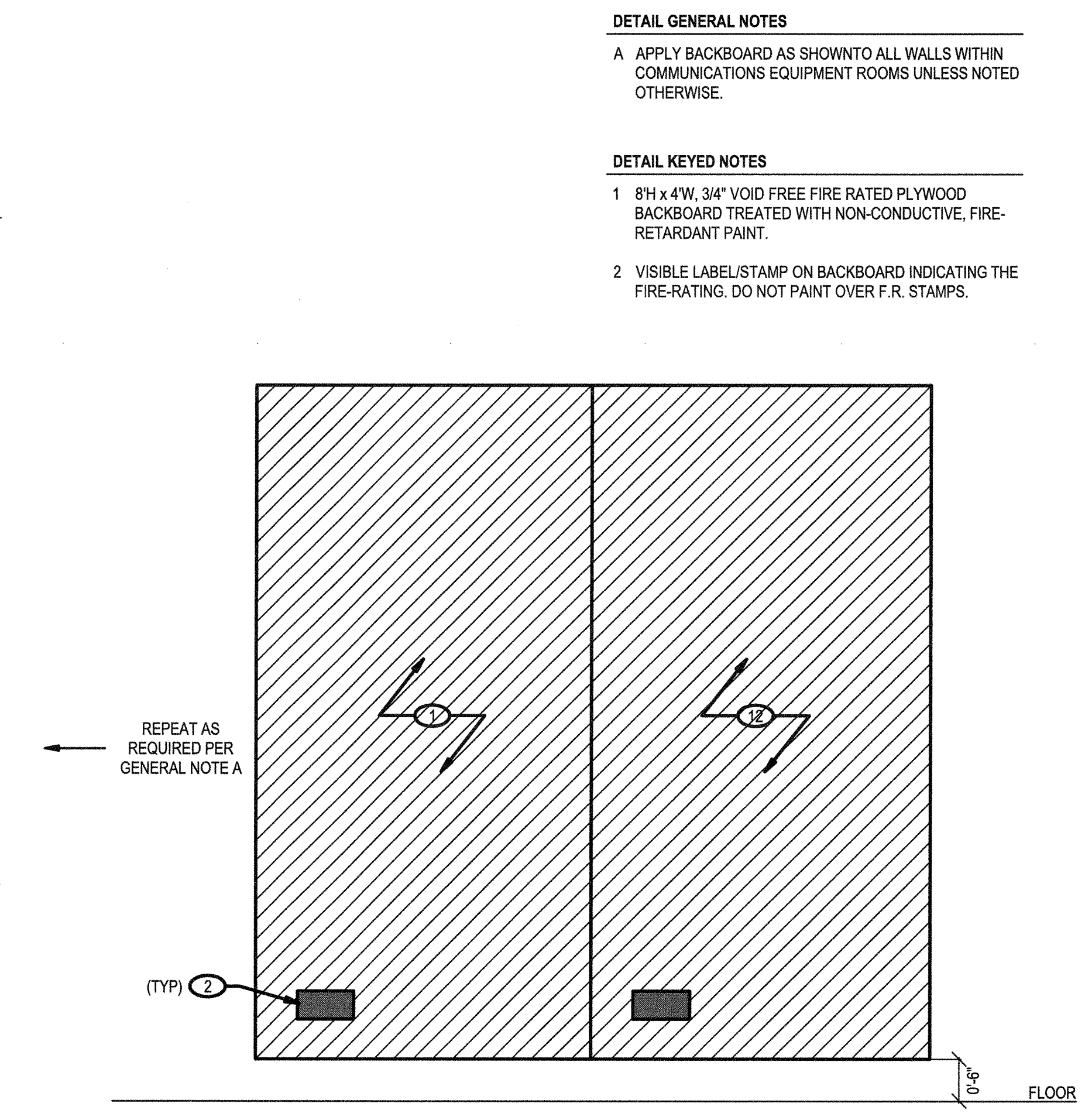
- COMPLY WITH CALIFORNIA ELECTRIC CODE 2016 EDITION, ALONG WITH ALL LOCAL AMENDMENTS.
- NEC ARTICLE 645, INFORMATION TECHNOLOGY EQUIPMENT, SHALL BE APPLIED TO TELECOMMUNICATIONS SPACES OR ROOMS ONLY WHERE DIRECTED BY OWNER.
- COMMUNICATION OUTLETS HEIGHTS SHOWN ARE MEASURED FROM THE FINISH FLOOR TO THE CENTERLINE OF THE OUTLET UNLESS OTHERWISE NOTED.
- LOCATIONS OF TECHNOLOGY DEVICES AND OUTLETS INDICATED ON THE ARCHITECTURAL INTERIOR ELEVATIONS PLANS TAKE PRECEDENCE OVER LOCATIONS INDICATED ON THE TECHNOLOGY DRAWINGS.
- OUTLET CONDUIT SHALL SERVE NO MORE THAN ONE COMMUNICATIONS OUTLET. DAISY CHAINING OF OUTLETS IS NEVER ALLOWED.
- COMMUNICATION OUTLETS SHALL BE PROVIDED WITHIN 12 FEET OF ELECTRICAL OUTLETS AT EQUAL HEIGHT.
- CONDUITS SHALL RUN LEVEL, STRAIGHT AND PARALLEL TO BUILDING WALLS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS TO REFERENCE CONDUIT ROUTING, PENETRATIONS AND CEILING MOUNTED DEVICES EXACT LOCATIONS.
- NO CONDUIT RUN TO EXCEED 100' WITHOUT THE INSTALLATION OF A PULL BOX.
- NO MORE THAN (2) 90 DEGREE BENDS OR 180 DEGREES IN CHANGE OF CONDUIT DIRECTION IS ALLOWED WITHOUT THE INSTALLATION OF A PULL BOX. CONTRACTOR TO SIZE TRADE ACCORDINGLY.
- MAINTAIN MINIMUM BEND RADIUS OF 6 TIMES THE INTERNAL DIAMETER FOR CONDUIT SIZES UP TO 2".
- MAINTAIN MINIMUM BEND RADIUS OF 10 TIMES THE INTERNAL DIAMETER FOR CONDUIT SIZES GREATER THAN 2".
- DO NOT USE A PULL BOX IN LIEU OF A BEND RADIUS FOR ANY CONDUIT. BEND RADIUS MUST ALWAYS BE PRODUCED WITHIN THE CONDUIT.
- ALL CONDUIT ENDS SHALL BE REAMED AND FITTED WITH BUSHINGS TO REDUCE THE AMOUNT OF DAMAGE OF CABLES DUE TO ANY SHARP EDGES.
- CONDUIT SHALL BE SUPPORTED EVERY 10 FEET MINIMUM AND WITHIN 3 FEET OF EACH COMMUNICATION OUTLET BOX. REFER TO THE LATEST NEC CODES FOR ADDITIONAL REQUIREMENTS ON CONDUIT SUPPORT.
- ALL CONDUIT SHALL BE ELECTRICAL METAL TUBING (EMT).
- CONDUITS FOR AV AND DATA CABLES SHALL BE NOT LESS THAN 1" IN DIAMETER AND SIZED AS NOT TO EXCEED 40% FILL. PROVIDE A VISIBLE ID TAG ON AV AND DATA CONDUITS.
- ALL FLOOR BOXES SHALL MAINTAIN SEGREGATION OF LOW VOLTAGE FROM POWER WITH DEDICATED COMPARTMENTS AND CONDUIT RUNS FOR AV, DATA AND POWER.
- A NYLON 118' MINIMUM PULL CORD SHALL BE INSTALLED WITHIN ALL CONDUITS TO ALLOW THE ABILITY TO PULL FUTURE CABLING. ALL CONDUITS SHOULD BE EQUIPPED WITH A PULL CORD HAT HAS A MINIMUM TEST RATING OF 20LBS.
- DO NOT MOUNT MEP EQUIPMENT ABOVE IT RACKS.
- ALL HORIZONTAL COPPER DISTRIBUTION CABLE TO BE PLENUM RATED CABLE.
- ETHERNET STRUCTURED CABLING TO NOT EXCEED 295' PERMANENT LINK OR 330' CHANNEL.
- NOT ALL SYMBOLS, ABBREVIATIONS AND LINE TYPES ON THIS SHEET ARE USED.
- CONDUIT ROUTING IS DIAGRAMMATIC. FIELD COORDINATE WITH OTHER TRADES AND CONFIRM LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.

TECHNOLOGY DRAWING LIST

- T0.0 TECHNOLOGY LEGEND AND ABBREVIATIONS
- T1.1 TECHNOLOGY SITE PLAN AND TYPICAL PORTABLE PLAN.
- T9.1 TECHNOLOGY DETAILS



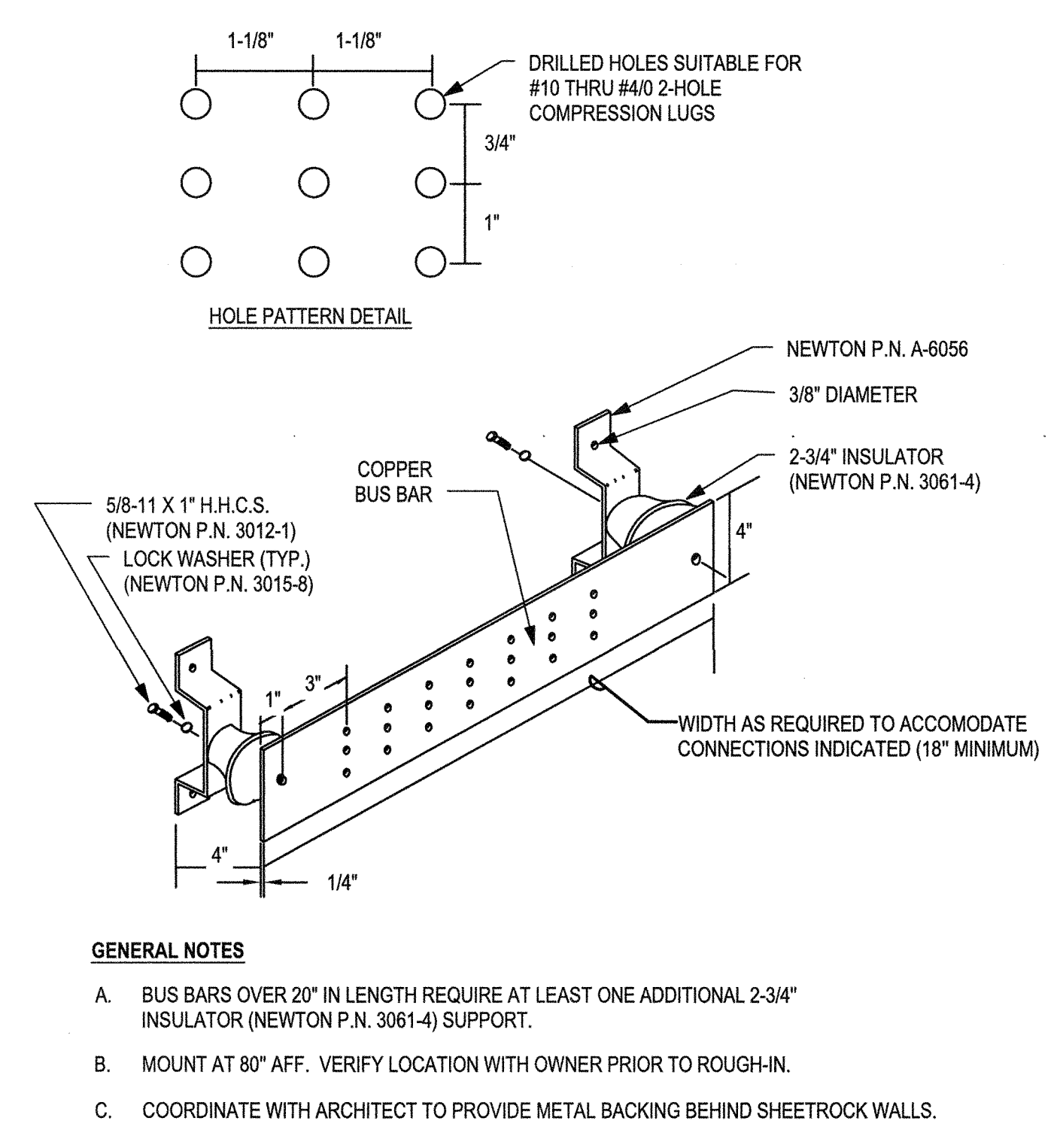
5 WALL MOUNTED CABINET ELEVATION
SCALE: N.T.S.



DETAIL GENERAL NOTES
A APPLY BACKBOARD AS SHOWN TO ALL WALLS WITHIN COMMUNICATIONS EQUIPMENT ROOMS UNLESS NOTED OTHERWISE.

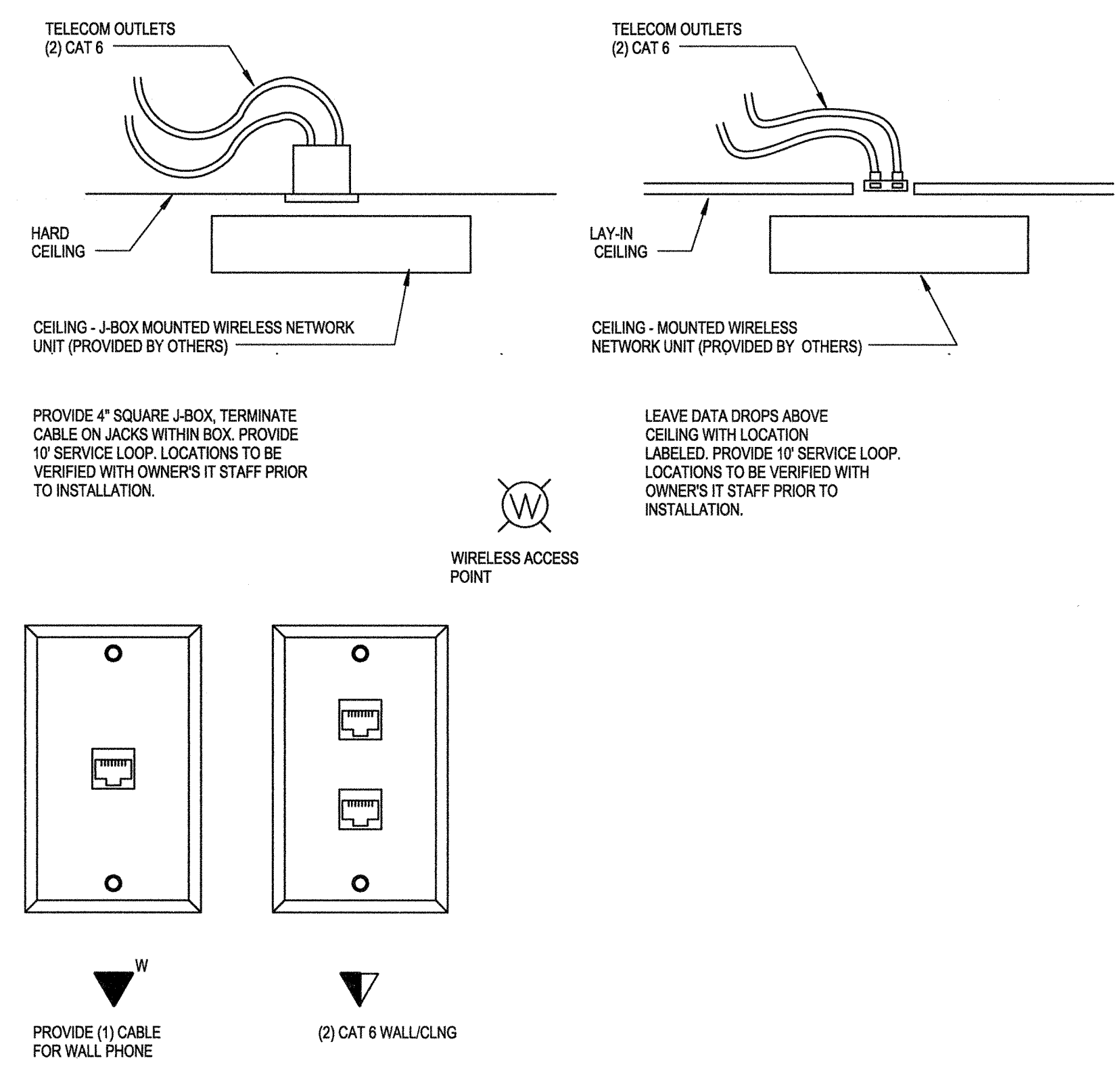
DETAIL KEYED NOTES
1 8 1/4" x 4 1/4" VOID FREE FIRE RATED PLYWOOD BACKBOARD TREATED WITH NON-CONDUCTIVE, FIRE-RETARDANT PAINT.
2 VISIBLE LABEL/STAMP ON BACKBOARD INDICATING THE FIRE-RATING. DO NOT PAINT OVER F.R. STAMPS.

2 TELECOMMUNICATIONS BACKBOARDS
SCALE: N.T.S.

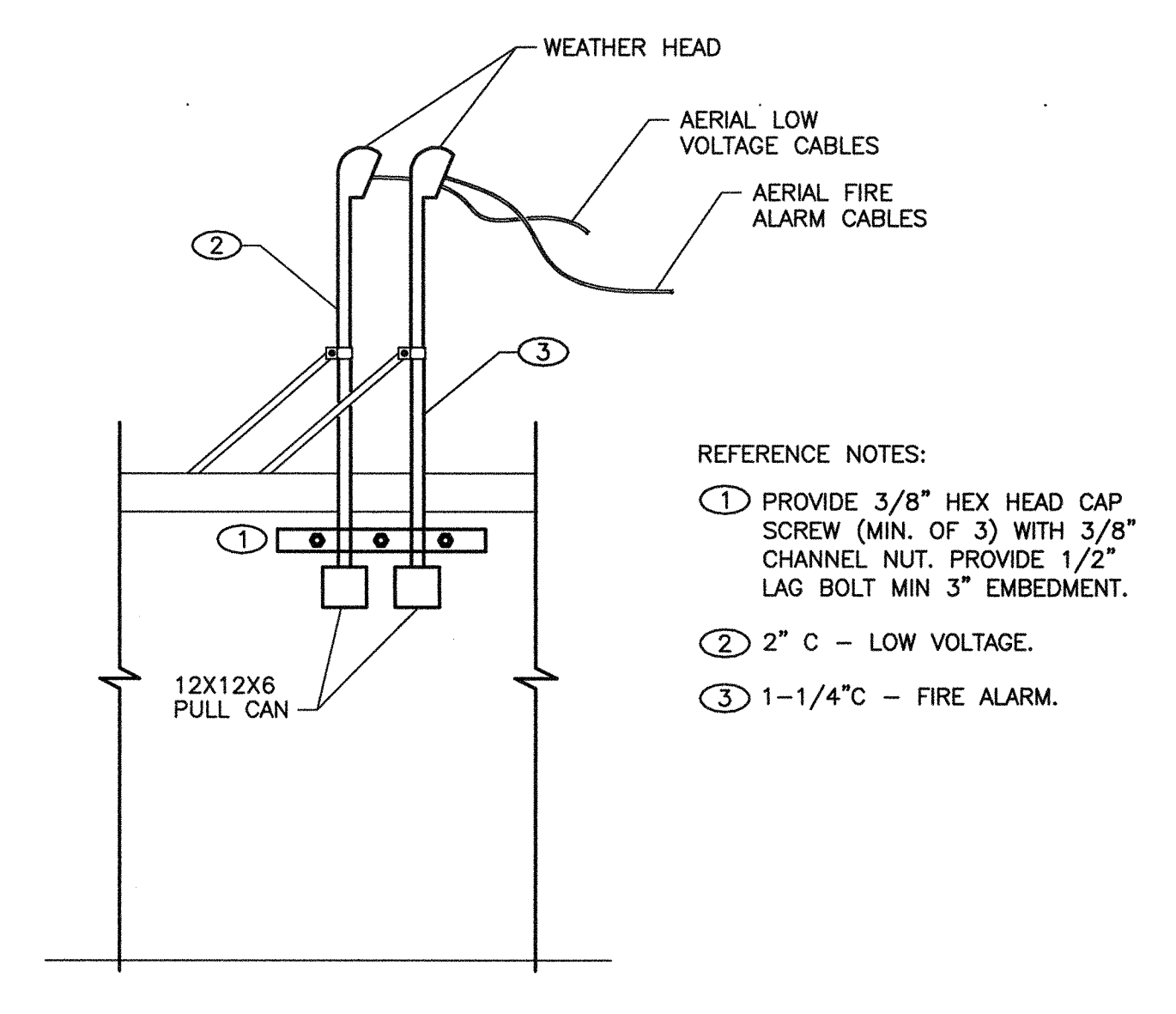


GENERAL NOTES
A. BUS BARS OVER 20" IN LENGTH REQUIRE AT LEAST ONE ADDITIONAL 2-3/4" INSULATOR (NEWTON P.N. 3061-4) SUPPORT.
B. MOUNT AT 80" AFF. VERIFY LOCATION WITH OWNER PRIOR TO ROUGH-IN.
C. COORDINATE WITH ARCHITECT TO PROVIDE METAL BACKING BEHIND SHEETROCK WALLS.

4 TELECOMMUNICATIONS GROUNDING BUS BAR
SCALE: N.T.S.



3 TELECOMMUNICATION OUTLET (TCO)
SCALE: N.T.S.



1 WEATHERHEAD DETAIL
SCALE: NONE

EQUIPMENT LIST			
DEVICES	EQUIPMENT LIST	MODEL NUMBER	CSPM LISTING NUMBER
7202	WIRELESS CONTROL PANEL	CWSI-CP-3600	7165-2013:0114
	CONTROL PANEL 7AH BATTERY	CWSI-BA-12V-7AHS	-
	HIGH GAIN 5DB OMNI ANTENNA	CWSI-OM-3S	-
	KELTRON DIALER	CWSI-KD-1S	7300-0708:0107
	POWER SUPPLY FOR KELTRON DIALER	CWSI-KPS-1S	-
	SDACT TO SERIAL DIALER CABLE	CWSI-CA-SDACT	-
	FIRE TRANSMITTER	CWSI-345	7300-2013:0110
	ETHERNET-NETWORK COMPATIBLE	ETHEDROP	-
7210	AR5 REPEATER	CWSI-AR-5	7300-2013:0110
	HIGH GAIN 5DB OMNI ANTENNA	CWSI-OM-3S	-
	YAGI ANTENNA INCLUDE 100' CABLE	CWSI-YA-100	-
	CONTROL PANEL 4AH BATTERY	CWSI-BA-12V-4AHS	-
7211	SMOKE DETECTOR (NON-AUDIBLE)	CWSI-302	7272-2013:0103
7212	PULL STATION	CWSI-310	7150-2013:0104
7213	HORN/STROBE MC WHITE	GEC24-15/75WR	7125-0569:0114
7214	HORN 24V WALL RED	GEH-24WR	7125-0569:0114
	WEATHERPROOF ENCLOSURE W/BACKBOX RED	GOE-R	-
	BATTERY, 3V, LITHIUM, DURACEL DL123	CWSI-BA-3VL1DS	-

FIRE ALARM LEGEND

REFERENCE SYMBOLS		ABBREVIATIONS	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
(12)	KEYED NOTE REFERENCE	(E)	EXISTING TO REMAIN
(125.4)	BRANCH CIRCUIT OR FEEDER NOMINAL AMPACITY & TYPE; REFER TO BRANCH CIRCUIT AND FEEDER SCHEDULES FOR WIRE AND CONDUIT SIZES & QTY.	(F)	FUTURE
(1)	REFER TO DETAIL NO. ON DRAWING INDICATED	(R)	EXISTING TO BE REMOVED
(E4.1)	NOT ALL DETAIL REFERENCES ARE SHOWN. ALL DETAILS APPLY TO ALL APPLICABLE SITUATIONS, UON.	(RL)	EXISTING TO BE RELOCATED
(2)	ELEVATION TAG: REFER TO ELEVATION NUMBER ON DRAWING INDICATED	AB	ABOVE COUNTER BACKSPASH
(E4.1)	SECTION TAG: REFER TO SECTION NUMBER ON DRAWING INDICATED	ACU	AIR CONDITIONING UNIT
(2)	KITCHEN EQUIPMENT REFERENCE, REFER TO KITCHEN EQUIPMENT SCHEDULE	AC	ALTERNATING CURRENT
(E4.1)	MECHANICAL EQUIPMENT IDENTIFICATION TAG	A, AMP	AMPERES
(K112)	EQUIPMENT BY OTHERS IDENTIFICATION TAG	AF	AMPERE (RATED) FUSE OR CB FRAME
(CH 1)		AFF	ABOVE FINISHED FLOOR
		AFG	ABOVE FINISHED GRADE
		AIC	EQUIPMENT SHORT CIRCUIT INTERRUPT RATING (RMS SYM. AMPS)
		AL	ALUMINUM (ALLOY)
		ALC	AUTOMATIC LIGHTING CONTROL
		AS	AMPERE (RATED) SWITCH
		AT	CIRCUIT BREAKER TRIP SETTING (AMPS)
		ATS	AUTOMATIC TRANSFER SWITCH
		AUTO	AUTOMATIC
		AUX	AUXILIARY
		AWG	AMERICAN WIRE GAUGE
		BAT	BATTERY
		BG	BELOW GRADE
		BRKR	CIRCUIT BREAKER
		C	CONDUIT (CIRCULAR RACEWAY)
		CAB	CABINET
		CSFM	CALIFORNIA STATE FIRE MARSHAL
		CB	CIRCUIT BREAKER
		CFM	CUBIC FEET PER MINUTE
		CKT	CIRCUIT
		CLG	CEILING
		CO	CONDUIT ONLY
		CPT	CONTROL POWER TRANSFORMER
		CT	CURRENT TRANSFORMER
		CU	COPPER
		DC	DIRECT CURRENT
		DISC	DISCONNECT
		DIA	DIAMETER
		DV	DIVISION
		DP	DISTRIBUTION PANEL
		DPST	DOUBLE POLE DOUBLE THROW
		DWG	DRAWING
		E	EMERGENCY
		EF	EXHAUST FAN
		EMT	ELECTRICAL METALLIC TUBING
		ENCL	ENCLOSURE
		EO	ELECTRICALLY OPERATED
		EOL	END OF LINE
		EWC	ELECTRIC WATER COOLER
		EWL	ELECTRIC WATER HEATER
		FA	FIRE ALARM
		FAA	FIRE ALARM ANNUNCIATOR
		FBO	FURNISHED BY OTHERS
		FC	FOOT CANDLES
		FF	FLUSH FLOOR MOUNTED
		FLA	FULL LOAD AMPERES
		FLEX	FLEXIBLE
		FPB	FAN POWERED BOX
		FSD	FIRE/SMOKE DAMPER
		FW	FLUSH WALL MOUNTED
		FU	FUSE
		GEN	GENERATOR
		GFI	GROUND FAULT CIRCUIT INTERRUPTER
		GND	GROUND
		GRAP	GENERATOR REMOTE ANNUNCIATOR PNL
		GRC	GALVANIZED RIGID STEEL CONDUIT
		HLO	HANDLE LOCK-ON(OFF)
		HP	HORSEPOWER
		HPF	HIGH POWER FACTOR
		HTR	HEATER
		HZ	HERTZ (CYCLES PER SECOND)
		IES	ILLUMINATING ENGINEERING SOCIETY
		IBC	INDIVIDUAL BRANCH CIRCUIT
		ID	INSIDE DIAMETER
		IG	ISOLATED GROUND
		IMC	INTERMEDIATE METAL CONDUIT
		KCMIL	THOUSAND CIRCULAR MILS
		KO	KNOCK OUT
		KW	KILOWATTS
		KVA	KILOVOLT-AMPERES
		LTG	LIGHTING
		LCP	LIGHTING CONTROL PANEL
		MAX	MAXIMUM
		MCA	MINIMUM CIRCUIT AMPERES
		MFR	MANUFACTURER
		MIN	MINIMUM
		MISC	MISCELLANEOUS
		MLO	MAIN LUGS ONLY
		MO	MANUAL OPERATOR
		MTD	MOUNTED
		MTR	MOTOR
		-N-	NEUTRAL (GROUNDED CONDUCTOR)
		NAC	NOTIFICATION APPLIANCE CIRCUIT
		NC	NORMALLY CLOSED
		NEC	NATIONAL ELECTRICAL CODE
		-NEG	NEGATIVE
		NEMA	NATIONAL ELECTRICAL MFR'S ASSOC.
		NL	NIGHT LIGHT (UNSWITCHED)
		NO	NORMALLY OPEN
		NTS	NOT TO SCALE
		NP	NAMEPLATE
		OC	ON CENTER
		OD	OUTSIDE DIAMETER
		OFCD	OWNER FURNISHED CONTRACTOR INSTALLED
		OFDI	OWNER FURNISHED, OWNER INSTALLED
		OS	OCCUPANCY SENSOR
		P	POLE
		PB	PUSHBUTTON
		PH	PHASE
		PNL	PANEL
		+POS	POSITIVE
		PRI	PRIMARY
		RNC	RIGID NON-METALLIC CONDUIT (PVC)
		REQD	REQUIRED
		RS	RAPID START
		RST	REMOTE STATION TRANSMITTER
		S.A.D.	SEE ARCHITECTURAL DRAWINGS
		SEC	SECONDARY
		SN	SHEET NOTE
		SOL	SOLENOID
		SPDT	SINGLE POLE DOUBLE THROW
		SPST	SINGLE POLE SINGLE THROW
		SUB	SUBSTATION
		SWBD	SWITCHBOARD
		SWGR	SWITCHGEAR
		TB	TERMINAL BOARD
		TDC	TIME DELAY CLOSING
		TDO	TIME DELAY OPENING
		TEL	TELEPHONE
		TYP	TYPICAL
		UL	UNDERWRITERS LAB
		UON	UNLESS OTHERWISE NOTED
		UPS	UNINTERRUPTIBLE POWER SUPPLY
		UTX	UTILITY TRANSFORMER
		V	VOLTS
		VA	VOLT-AMPERES
		VFD	VARIABLE FREQUENCY DRIVE
		W	WATT
		W/	WITH
		W/O	WITHOUT
		WP	WEATHERPROOF, SEE RECEPT. SYMBOL
		XFR	TRANSFORMER
		XP	EXPLOSION PROOF
		Z	ZONE
		"	INCHES
		'	FEET

FIRE ALARM DESIGN CRITERIA

- CALIFORNIA ELECTRICAL CODE: 2016
- CALIFORNIA BUILDING CODE: 2016
- AMERICANS WITH DISABILITIES ACT, (ADA)
- NFPA 101, LIFE SAFETY CODE: 2014
- DIVISION OF THE STATE ARCHITECT (DSA)

SCOPE OF WORK

THIS PROJECT WILL CONSIST OF PROVIDING A NEW STAND ALONE FIRE ALARM TO NEW PORTABLE CLASSROOM, 'EK-2'.

A. THE FIRE ALARM SYSTEM WILL CONSIST OF A SUITE OF SIMPLEX BRAND DEVICES (SPEAKERS, STROBES, ETC.) NETWORKED TO A NEARBY FIRE CONTROL PANEL.

FIRE ALARM DRAWING LIST

NO.	DESCRIPTION
FA0.0	FIRE ALARM LEGEND AND ABBREVIATIONS
FA0.1	FIRE ALARM SPECIFICATIONS
FA1.1	FIRE ALARM SITE PLAN
FA5.1	FIRE ALARM RISER DIAGRAM AND CALCULATIONS
FA9.1	FIRE ALARM DETAILS

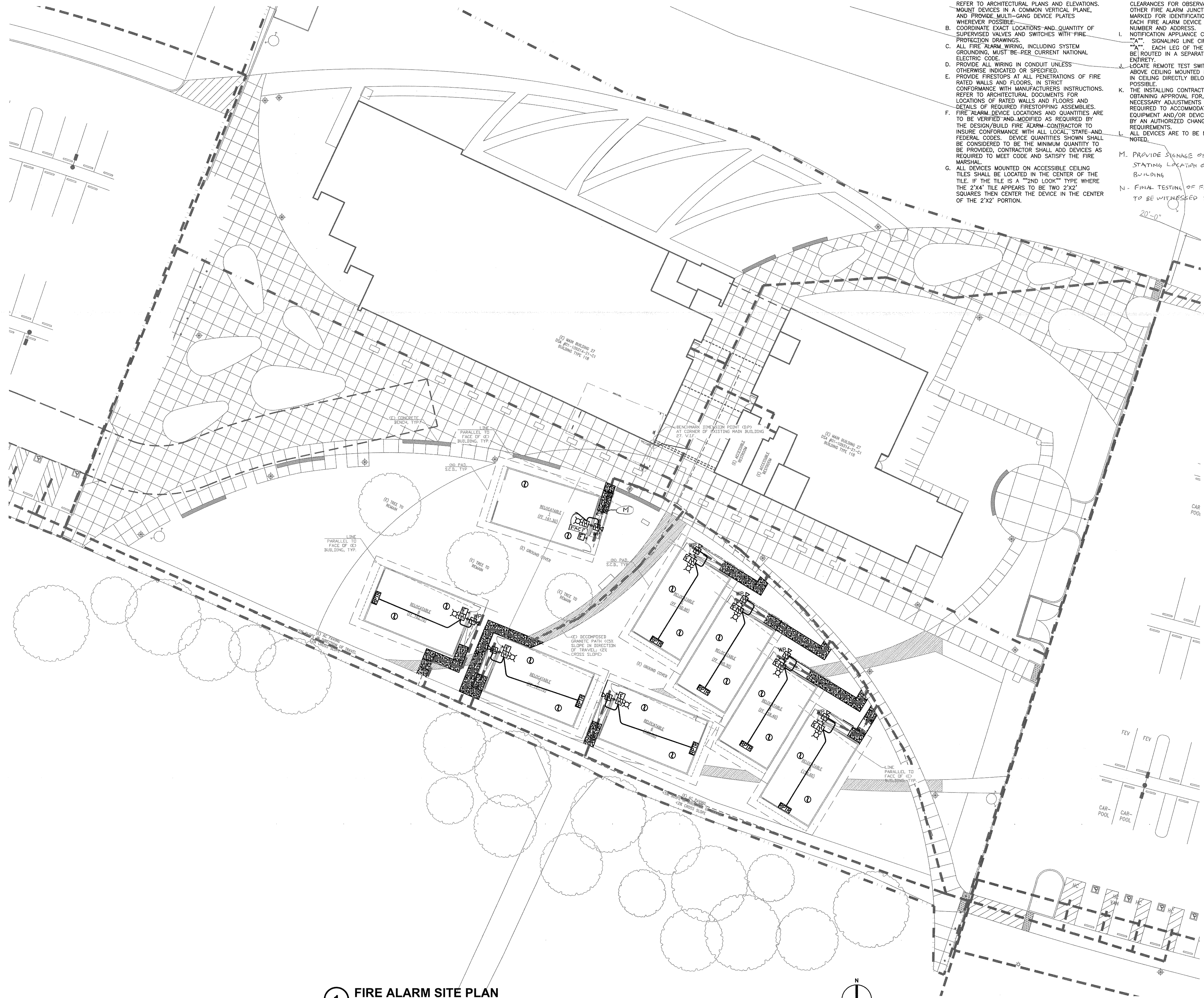


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DIVISION OF THE STATE ARCHITECT

APR 01-117316

ACS 8/1/18
DATE: 8/1/18

DSA SUBMITTAL 01/10/2018



1 FIRE ALARM SITE PLAN
SCALE: 1/16"=1'-0"

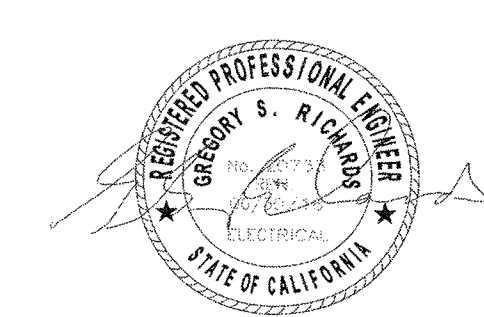
SHEET NOTES

- A. FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES REFER TO ARCHITECTURAL PLANS AND ELEVATIONS. ALL MOUNT DEVICES IN A COMMON VERTICAL PLANE, AND PROVIDE MULTI-GANG DEVICE PLATES WHEREVER POSSIBLE.
- B. COORDINATE EXACT LOCATIONS AND QUANTITY OF SUPERVISED VALVES AND SWITCHES WITH FIRE PROTECTION DRAWINGS.
- C. ALL FIRE ALARM WIRING, INCLUDING SYSTEM GROUNDING, MUST BE PER CURRENT NATIONAL ELECTRIC CODE.
- D. PROVIDE ALL WIRING IN CONDUIT UNLESS OTHERWISE INDICATED OR SPECIFIED.
- E. PROVIDE FIRESTOPS AT ALL PENETRATIONS OF FIRE RATED WALLS AND FLOORS, IN STRICT CONFORMANCE WITH MANUFACTURERS INSTRUCTIONS. REFER TO ARCHITECTURAL DOCUMENTS FOR LOCATIONS OF RATED WALLS AND FLOORS AND DETAILS OF REQUIRED FIRESTOPPING ASSEMBLIES.
- F. FIRE ALARM DEVICE LOCATIONS AND QUANTITIES ARE TO BE VERIFIED AND MODIFIED AS REQUIRED BY THE DESIGN/BUILD FIRE ALARM CONTRACTOR TO INSURE CONFORMANCE WITH ALL LOCAL, STATE AND FEDERAL CODES. DEVICE QUANTITIES SHOWN SHALL BE CONSIDERED TO BE THE MINIMUM QUANTITY TO BE PROVIDED. CONTRACTOR SHALL ADD DEVICES AS REQUIRED TO MEET CODE AND SATISFY THE FIRE MARSHAL.
- G. ALL DEVICES MOUNTED ON ACCESSIBLE CEILING TILES SHALL BE LOCATED IN THE CENTER OF THE TILE. IF THE TILE IS A "2ND LOOK" TYPE WHERE THE 2'x4' TILE APPEARS TO BE TWO 2'x2' SQUARES THEN CENTER THE DEVICE IN THE CENTER OF THE 2'x2' PORTION.
- H. FACP AND OTHER PANELS SHALL BE MOUNTED WITH CLEARANCES FOR OBSERVATION AND TESTING. ALL OTHER FIRE ALARM JUNCTION BOXES SHALL BE MARKED FOR IDENTIFICATION. PROVIDE LABELS AT EACH FIRE ALARM DEVICE INDICATING DEVICE NUMBER AND ADDRESS.
- I. NOTIFICATION APPLIANCE CIRCUITS SHALL BE CLASS "A". SIGNALING LINE CIRCUITS SHALL BE CLASS "A". EACH LEG OF THE CLASS "A" LOOP SHALL BE ROUTED IN A SEPARATE RACEWAY IN ITS ENTIRETY.
- J. LOCATE REMOTE TEST SWITCH AND PILOT LIGHT FOR ABOVE CEILING MOUNTED DUCT DETECTORS, FLUSH IN CEILING DIRECTLY BELOW DETECTOR WHERE POSSIBLE.
- K. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL FOR, AND MAKING ALL NECESSARY ADJUSTMENTS IN CIRCUITING AS REQUIRED TO ACCOMMODATE THE RELOCATION OF EQUIPMENT AND/OR DEVICES WHICH ARE EFFECTED BY AN AUTHORIZED CHANGE OR FIELD INSTALLATION REQUIREMENTS.
- L. ALL DEVICES ARE TO BE NEW UNLESS OTHERWISE NOTED.
- M. PROVIDE SIGNAGE ON EXTERIOR OF BUILDING STATING LOCATION OF FACP WITHIN BUILDING.
- N. FINAL TESTING OF FIRE ALARM SYSTEM TO BE WITNESSED BY LOCAL AHS.



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ACS: [Signature]
DATE: 11/10/18

DSA SUBMITTAL 01/10/2018



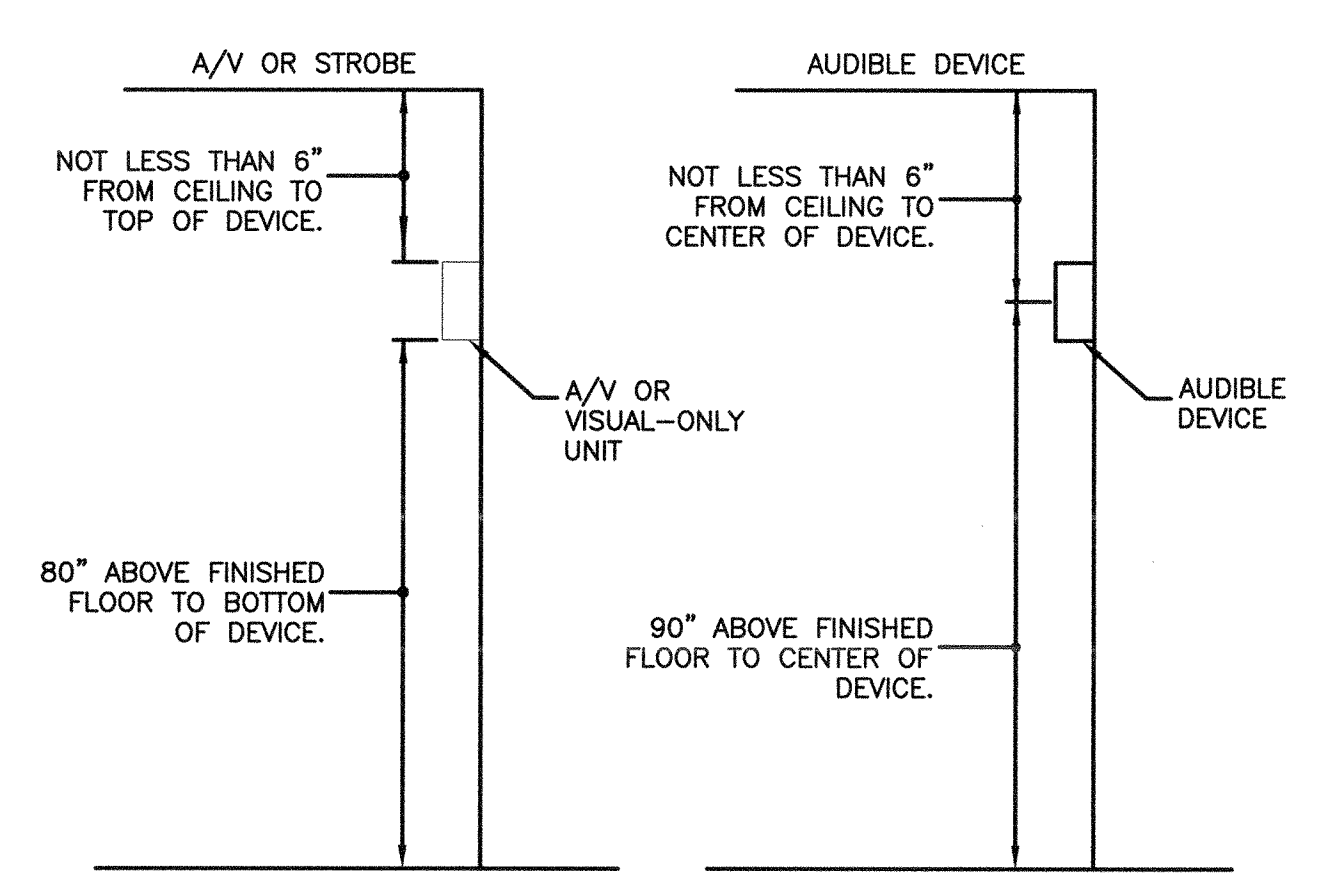
IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 APPL 01-117316
 ACS: [Signature] / SSS: D.M.
 DATE: 1/10/18

DSA SUBMITTAL 01/10/2018

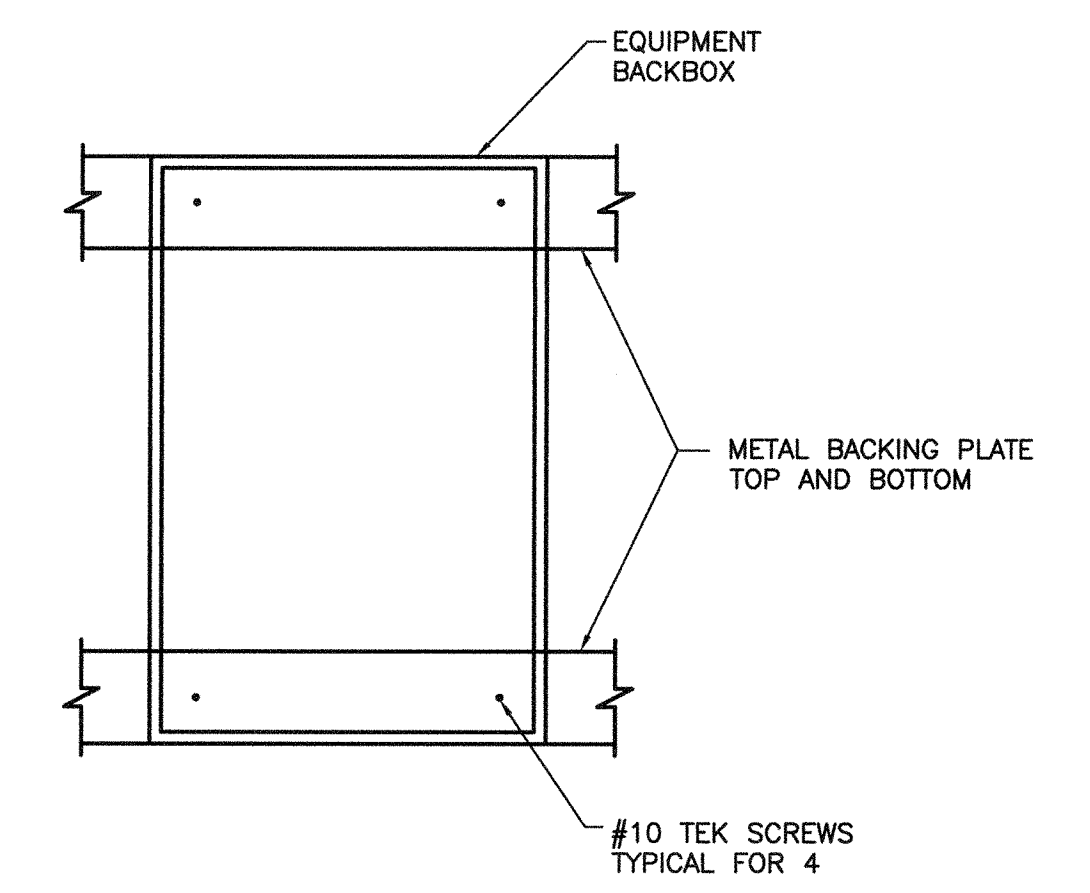
COLLEGE OF MARIN
 INTERIM HOUSING

Detail Project # 125-35612
 AE Project # 75-18802 date 01-10-2018
 drawn by: PJ checked by: DR
 scale: NONE
FIRE ALARM
 DETAILS

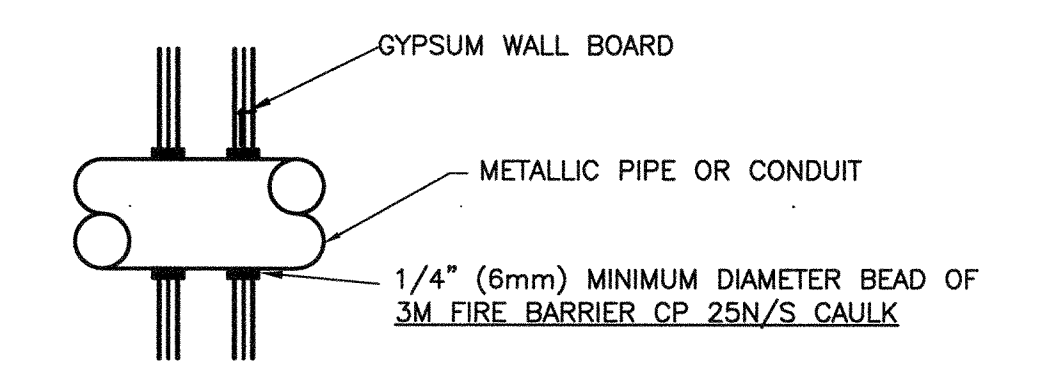
FA9.1



3 TYPICAL NOTIFICATION APPLIANCE ELEVATION DETAIL
 SCALE: NONE

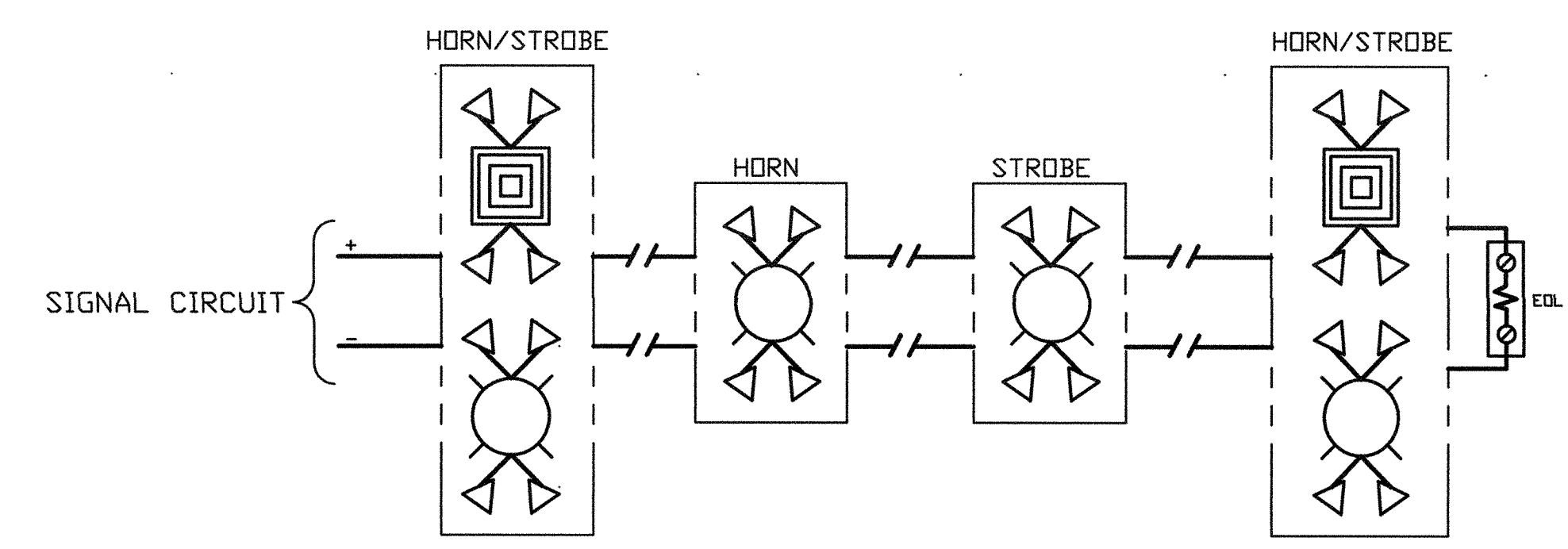


2 PANEL ANCHORAGE DETAIL (FOR EQUIPMENT WEIGHING OVER 20 POUNDS)
 SCALE: NONE



4 PENETRATION DETAIL UL SYSTEM #WL1001
 SCALE: NONE

1. THE CAULK IS TO BE FORCED INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE.
2. FINISH CAULKING WITH A 1/4" (6mm) MINIMUM BEAD OF CP 25N/S CAULK APPLIED TO THE PERIMETER OF THE CONDUIT/PIPE AT ITS EGRESS FROM THE WALL.
3. THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16" (5 mm).
4. INSTALL 3M FIRESTOP ON BOTH SIDES OF THE WALL.
5. THESE RECOMMENDATIONS ARE BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) FIRE TEST AND UL THROUGH-PENETRATION FIRESTOP SYSTEM #WL1001.



1 TYPICAL SIGNAL CIRCUIT WIRING DIAGRAM (STYLE Y)
 SCALE: NONE

SHEET NOTES

- ALL REQUIREMENTS OF CONTRACT SPECIFICATIONS AND DRAWINGS APPLY.
- INSTALLATION SHALL CONFORM TO REQUIREMENTS OF APPLICABLE ELECTRICAL CODES, INCL. U.L., NFPA 72, 2014 EDITION WITH AMENDMENTS.
- WIRING METHODS AND MATERIALS SHALL CONFORM WITH ALL APPLICABLE SECTIONS OF NEC ARTICLE 760.
- SEE SIMPLEX 4020 FIELD WIRING SPECIFICATIONS (841-842) FOR ADDITIONAL INSTALLATION REQUIREMENTS.
- 120VAC 60 Hz INPUT POWER FOR FIRE ALARM CONTROLS SHALL BE A DEDICATED LOCKING BREAKER PROPERLY LABELED.
- ALL WIRING, INCLUDING SHIELDS, MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
- PROVIDE SIMPLEX WITH ONE COPY OF "AS BUILT" DRAWINGS SO THAT ACCURATE DOCUMENTATION CAN BE MAINTAINED.
- 120VAC IS NOT PERMITTED IN SAME CONDUIT WITH OTHER CIRCUITS.
- DO NOT APPLY POWER EXCEPT IN THE PRESENCE OF A FACTORY-TRAINED SIMPLEX TECHNICAL REPRESENTATIVE.
- ANY SMOKE DETECTOR HEAD INSTALLED BEFORE BUILDING IS CLEANED AND ACCEPTED SHALL BE COVERED TO PROTECT FROM DUST. ANY FALSE ALARMS DUE TO DIRT-CONTAMINATED HEADS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- THERE WILL BE NO CONDUIT ENTRY ALLOWED 18" OR LOWER ON THE SIDE PANELS OR THROUGH THE BOTTOM OF ALL CONTROL EQUIPMENT BACKBOXES.
- MANUAL PULL STATIONS SHALL BE MOUNTED AT 48" ABOVE FINISHED FLOOR TO CENTERLINE OF DEVICE.
- LOCAL FIRE AUTHORITY SHALL WITNESS FINAL TEST. FOR EDUCATIONAL BUILDINGS, CALIFORNIA STATE FIRE MARSHALL SHALL WITNESS FINAL TEST.
- ALL WIRE, PANEL AND DEVICE TERMINATIONS, CONDUIT, PHYSICAL MOUNTING, ETC., SHALL BE PROVIDED BY OTHER THAN SIMPLEX.



24 X 40 RELOCATABLE CLASSROOMS MOBILE MODULAR MANAGEMENT CORP.

TEST AND INSPECTION LIST

TESTING LABORATORY: _____ DATE: _____ STATE OF CALIFORNIA
 NAME: _____ DEPT. OF GENERAL SERVICES
 DIVISION-FILE NO. _____ ARCHITECT: _____ DIVISION OF THE
 STATE ARCHITECT
 STRUCTURAL ENGINEER: _____ ORS 103-1 (R 11/85)

The following tests and inspections, as checked, will be required as detailed in applicable specifications.

COMPACTED FILL	CONCRETE	GUNITE	GROUT	MORTAR
<input type="checkbox"/> For compaction, moisture tests	<input type="checkbox"/> Test of samples for min. comp. only			
<input type="checkbox"/> Composition control, continuous	<input type="checkbox"/> Suitability tests of aggregate as specified below			
<input type="checkbox"/> Composition tests only as ordered	<input type="checkbox"/> Min. density			
<input type="checkbox"/> Checks adequacy of compacted fill	<input type="checkbox"/> Continuous basis slump inspection			
<input type="checkbox"/> Reinforcing STEEL	<input type="checkbox"/> Slump			
<input type="checkbox"/> Samples and test steel	<input type="checkbox"/> Compressive tests			
<input type="checkbox"/> Samples and test steel	<input type="checkbox"/> Push up samples of job			
<input checked="" type="checkbox"/> Structural STEEL	<input type="checkbox"/> Samples delivered to laboratory			
<input type="checkbox"/> Samples and test as detailed below	<input type="checkbox"/> Other samples forms to submit			
<input type="checkbox"/> Stop fabrication inspection	<input type="checkbox"/> Samples and test cement			
<input type="checkbox"/> First erection inspection	<input type="checkbox"/> SUITABILITY TESTS			
<input checked="" type="checkbox"/> Inspection of walls - Stop	<input type="checkbox"/> CONCRETE			
<input type="checkbox"/> Inspection of walls - Final	<input type="checkbox"/> GUNITE			
<input type="checkbox"/> Inspection of ceiling or soffit - Stop	<input type="checkbox"/> MORTAR			
<input type="checkbox"/> Inspection of ceiling or soffit - Final	<input type="checkbox"/> GROUT			
<input type="checkbox"/> Samples and test high strength bolts and washers	<input type="checkbox"/> MINIMUM STRENGTH			
<input type="checkbox"/> BRICK AND BLOCK	<input type="checkbox"/> MIX DESIGNS: CONCRETE, GROUT, MORTAR OR GUNITE			
<input type="checkbox"/> Samples and test	<input type="checkbox"/> MATERIAL			
<input type="checkbox"/> Test only	<input type="checkbox"/> MAXIMUM SIZE			
<input type="checkbox"/> Inspection of glazing	<input type="checkbox"/> 28 DAYS			
<input type="checkbox"/> Core and samples	<input type="checkbox"/> COMPRESSIVE STRENGTH, PSI, MINIMUM			
<input type="checkbox"/> GLUED LAMINATED STRUCTURAL LUMBER				
<input type="checkbox"/> Fabrication inspection				
<input type="checkbox"/> Samples and test steel accessories				
<input type="checkbox"/> Inspection fabrication of steel accessories				

Use of structural steel members to be tested: TESTING MAY BE WAIVED IF STEEL HAS BEEN PROPERLY IDENTIFIED BY MFR'S MILL ANALYSIS AND TEST REPORTS PER TITLE 24, C.C.R., SECTION 2212.A.1

3 1/2" x 3 1/2" x 1/4" SO. COL.
 10 ga. & 12 ga. ROOF CEE
 6 3/4"x14 GA. JOISTS
 6 3/8" x 12 ga. JOIST ALT.
 6" x 14 ga. ROOF JOIST
 3 1/2" x 10 ga. ALT. JOIST
 4" x 12ga. ROOF JOIST ALT.
 2"x16 ga. STRAPS

Other Tests and Inspections, together with special instructions:
 GROUNDING TEST

Copies of Reports to:
 DSA/ORS
 AMERICAN MODULAR SYSTEMS, INC.
 SCHOOL DISTRICT
 ARCHITECT

By: _____
 AUTHORIZED REPRESENTATIVE

INDEX

SHEET No. DESCRIPTION

TS-1	TITLE & BUILDING DATA NOTES
N-1	GENERAL NOTES
1	FLOOR PLAN & NOTES
2	EXTERIOR ELEVATIONS
3	CEILING GRID, DETAILS & NOTES
4	INTERIOR ELEVATIONS & OPTIONAL PLANS
S1	FOUNDATION PLAN WOOD, DETAILS & NOTES 50#
S2	FLOOR FRAMING PLANS
S2A	BUILDING SECTIONS & WALL DETAILS
S3	ROOF FRAMING PLAN & DETAILS
S3A	ROOF FRAMING DETAILS
S4	FRAMING ELEVATIONS & DETAILS
S5R	RAMP PLAN, ELEVATION & DETAILS
M1	MECHANICAL PLAN, DETAILS & NOTES
E1	ELECTRICAL PLAN, DETAILS & NOTES

BUILDING DATA

25 CLASSROOMS STOCKPILE

OCCUPANCY	E-1
TYPE OF CONSTRUCTION	V - NON-RATED
WIND LOAD (80 MPH EXPOSURE C)	21 LBS/SQ FT
FLOOR LIVE LOAD	50 LBS/SQ FT
ROOF LIVE LOAD	20 LBS/SQ FT (REDUCIBLE)
RAMP LIVE LOAD	100 LBS/SQ FT
BUILDING AREA	960 SQ FT
FIRE MARSHAL- CALIFORNIA BUILDING CODE (CBC)	TITLE 24, PART 2, CCR (1997 UBC W/ CAL. AMENDS) TITLE 24, PART 3, CCR (1997 NEC W/ CAL. AMENDS) TITLE 24, PART 4, CCR (1997 UMC W/ CAL. AMENDS) TITLE 24, PART 5, CCR (1997 UMC W/ CAL. AMENDS) TITLE 24, PART 9, CCR (1997 UFC W/ CAL. AMENDS) TITLE 24, PART 12, CCR (1997 STD. W/ CAL. AMENDS) TITLE 19
STRUCTURAL - 1998 CALIFORNIA BUILDING CODE (CBC)	TITLES 24 PARTS 1 AND 2
MODULES	MOMENT-RESISTANT
SYSTEM	(2) 12' X 40' MODULES
FOUNDATION	PRESSURE TREATED WOOD
SEISMIC	ZONE 4 SEISMIC SOURCE A DISTANCE FROM SEISMIC SOURCE \leq 2 KM SOIL TYPE S

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 APPL 01-117316
 DATE 5/16/00

FILE NO. 24-117316
 IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 APPL 02 1020 93
 AC. # FLS. 24-117316
 DATE 5/16/00

JOB NO.
 DATE: MARCH 16, 2000
 SHEET NUMBER
 TS-1
 BINDING
 ORDER 1

American Modular Systems
 333 EAST CARNEGIE CT. MANTeca, CALIFORNIA 95337
 PHONE (209) 825-1921 FAX (209) 825-7018

GENERAL NOTES AND SPECIFICATIONS

SECTION 1A GENERAL REQUIREMENTS

- GENERAL
 - THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THIS GENERAL REQUIREMENT APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH TRADE SECTION.
 - NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS WITH THE WRITTEN APPROVAL OF D.S.A. AND THE ARCHITECT.
 - ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLES 19 AND 24 CALIFORNIA CODE OF REGULATIONS. NO CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF D.S.A. AND THE ARCHITECT.
- SCOPE OF WORK
 - THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT AND INSTALLING ON-SITE/MODULAR RELOCATABLE BUILDINGS AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS.
 - ALL REQUIREMENTS OF TITLES 24 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:
 - GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION BY THE ARCHITECT OF RECORD.
 - INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION WELDING, MECHANICAL, AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICTS.
 - ON-SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY INSTALLATION OR CONNECTIONS BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.
 - OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.
 - ADDITIONALS SHALL BE SIGNED BY THE ARCHITECT & APPROVED BY D.S.A.
 - CHANGE ORDERS SHALL BE SIGNED BY THE OWNER & ARCHITECT & APPROVED BY D.S.A.
 - THE TESTING LAB SHALL BE IN THE EMPLOY OF THE OWNER.
 - ALL CONTRACTORS SHALL VERIFY ALL WORK CONDITIONS, DIMENSIONS AND DETAILS AND REPORT ANY OR ALL OMISSIONS AND DISCREPANCIES TO THE DESIGNER/OWNER IMMEDIATELY BEFORE COMMENCING WORK.
 - EACH CONTRACTOR TO BE RESPONSIBLE TO SEE THAT THEIR WORK CONFORMS TO ALL GOVERNMENTAL CODES WHETHER OR NOT SO STATED ON THE DRAWINGS.
 - ALL MATERIALS AND WORKMANSHIP TO CONFORM TO THE LATEST REQUIREMENTS OF THE GOVERNING BUILDING CODES IN EFFECT AT TIME OF DSA APPLICATION.
 - ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED AND DIRECTED PER MANUFACTURER'S DIRECTIONS AND INSTRUCTIONS.
 - SHOP DRAWINGS MAY BE REQUIRED. IF SO, THEY WILL BE ACCURATELY DRAWN TO A LARGE ENOUGH SCALE TO SHOW ALL PERTINENT FEATURES OF THE ITEM AND ITS CONNECTION TO RELATED WORK.
 - THE MANUFACTURER OF BUILDING IS TO PLACE TWO PERMANENT METAL IDENTIFIER LABELS ON EACH MODULE, MECHANICALLY FASTENED TO THE FRAME SEE "GENERAL DESIGN REQUIREMENTS", THIS PAGE.
 - FOR PROJECTS MANUFACTURED OFF-SITE, THE PLANT INSPECTOR IS TO INDICATE THE MANUFACTURER'S NAME AND SERIAL NUMBER OF EACH MODULE ON THE VERIFIED REPORT AND D.S.A. APPR. NUMBER.
 - ALL TESTS AND INSPECTIONS REQUIRED BY DSA SHALL BE COMPLIED WITH. ALL TESTS REQ. BY FIRE AND LIFE SAFETY REGULATIONS SHALL BE BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
- FOUNDATION
 - ASSUMED ALLOWABLE SOIL BEARING: 1000 PSF.
 - FOOTINGS SHALL BE LOCATED ON UNDISTURBED FIRM NATURAL SOIL. APPROVED COMPACTED FILL OR ON AN APPROVED PAVED SURFACE.
 - NOTE: THE FOUNDATION SYSTEM PRESENTED HEREIN COMPLIES WITH INTERPRETATION OF REGULATIONS, 19-18-1, ISSUED BY DIVISION OF THE STATE ARCHITECT FOR TEMPORARY BUILDINGS. THIS FOUNDATION SYSTEM IS NON-COMMERCIAL AND THE STRUCTURAL ENGINEER TAKES NO RESPONSIBILITY FOR ITS CONSTRUCTION OR LONGEVITY.
- WORK NOT INCLUDED
 - ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.
 - ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
 - FIRE ALARM SYSTEM, PROGRAM BELL, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TELEPHONE SYSTEM UNLESS OTHERWISE INDICATED ON THE DRAWINGS, OR MODIFIED BY CHANGE ORDER.
 - WHEELS AND HITCH SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
 - ACCESSIBILITY OF SITE
 - THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF BUILDINGS. REMOVAL OF TREES SHRUBS, FENCING, SPRINKLERS ETC., NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

TRIM/ FINISH NAILING			
DESCRIPTION	SET	SIZE	LENGTH FINISH
SIDING		.131	2 1/4" GALV
CASING, SILL & INT. CORNER TRIM	X	16g	1 1/4" N
2X FASCIA		.131	3" GALV
SOFFIT		.131	2 1/4" GALV
1X EXT. TRIM, WINDOWS, EXT. DOORS, EXT. TRIM		.113	2" GALV

24 X 40
RELOCATABLE
CLASSROOMS

SECTION 6 WORKMANSHIP

- GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC STANDARD SPECIFICATIONS, TITLE 24 OF CALIFORNIA CODE OF REGULATIONS AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OF STEEL STRUCTURAL MEMBERS. A COPY OF TITLE 24 SHALL BE KEPT AT THE JOBSITE AT ALL TIMES.
- WELDING - ALL WELDING DONE BY SHIELDED ELECTRIC-ARC OR FLUX CORED-ARC PROCESS COMPLYING WITH REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY. WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT. WELDING INSPECTION PER TITLE 24, PART 2, C.C.R. SECTION 2212.4.5 WELDING ELECTRODE SHALL BE E70XX.
 - STRUCTURAL STEEL SHALL CONFORM TO A.S.T.M. A-36 & A-570 OR 36.
 - PIPE COLUMNS SHALL CONFORM TO A.S.T.M. A-53 WITH SULFUR CONTENT NOT EXCEEDING 0.05%.
 - STEEL TUBING SHALL CONFORM TO A.S.T.M. A-500 GRADE B OR A.S.T.M. A575 GRADE 50 FOR GAUGE TUBING-TYP. U.N.C.
 - STRUCTURAL WELDS ARE DESIGNED FOR FULL ALLOWABLE STRESS UNLESS OTHERWISE NOTED.
- ERECTOR - STRUCTURE SHALL BE ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNATED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDED AS INDICATED ON THE DRAWINGS.
- NAILS, BOLTS, SCREWS AND NUTS ETC. - FOR EXTERIOR WORK SHALL BE CADMIUM PLATED OR GALVANIZED.
 - BOLTS FOR STRUCTURAL STEEL JOINTS SHALL CONFORM TO A.S.T.M. A-307 UNLESS OTHERWISE NOTED. ALL HOLES FOR MACHINE AND CARRIAGE BOLTS THROUGH STEEL TO BE DRILLED, OR TORCH PILET HOLE AND REAM MIN. 1/16" TO CORRECT SIZE. NELSON STUDS (WELDED TO STEEL) MAY BE SUBSTITUTED FOR BOLTS SAME LENGTH AND DIAMETER EXCEPT AT SIMPSON MT288.
 - HANDRAILS - FABRICATED, AS DETAILED, WELDS GROUND.
- SHOP PAINT
 - EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
 - NON-EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
 - ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS. PRIME ALL EXPOSED STEEL SURFACES AFTER FIELD WELDING.
- TESTS
 - PROVIDE MILL CERTIFICATES OR TEST ALL STEEL MEMBERS PER 1-24 PART 2, C.C.R. SECTION 2212.1.1.

SECTION 6A CARPENTRY

- SCOPE OF WORK
 - CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY.
- MATERIALS
 - LUMBER GRADE MARKED IN ACCORDANCE WITH "STANDARD GRADING AND DRESSING RULE NO. 17 OF WEST COAST LUMBER INSPECTION BUREAU, OR "GRADING RULES FOR LUMBER, 3RD EDITION OF WESTERN WOOD PRODUCTS ASSOCIATION OR W.C.L.P.B. PLYWOOD GRADE MARKED IN ACCORDANCE WITH PRODUCT STANDARD PS 1-95 FOR SOFTWOOD PLYWOOD, OF AMERICAN PLYWOOD ASSOCIATION, COMPLYING WITH CBC EACH SHEET SHALL BEAR THE STAMP OF APA, PITTSBURGH TESTING, OR TECO.
 - JOISTS, PLATES, STUDS-DOUGLAS FIR OR HEM FIR 54S #2 U.N.C. NOTE: MSR 1650 E1.5 MAY BE SUBSTITUTED FOR #2 GRADE IF IT MEETS THE STRUCTURAL REQUIREMENTS FOR FLOOR AND ROOF MEMBERS.
 - HEADERS-DOUGLAS FIR 54S #1.
 - BLOCKING - DOUG FIR #3OR HEM FIR #3OR STD. & BET.
 - SILLS AND LUMBER & SHIM PLATES IN CONTACT WITH CONCRETE, MASSMORY OR EARTH, DOUG FIR #2 PRESSURE TREATED IN ACCORDANCE WITH CBC 1811.7. EACH PIECE SHALL BEAR AMPW STAMP. LP-22 GROUND CONTACT, D.F.#2 ABOVE GROUND.
 - PLYWOOD ROOF DECKING - SEE A/53.
 - PLYWOOD FLOOR DECKING - APA STURD-I-FLOOR 2-4-1 OR UN-FLOOR BY PITTSBURGH TESTING LAB. 1-1/8" THICK. TONGUE AND GROOVE FLOOR SHEATHING, WITH EXTERIOR GLUE.
 - EXTERIOR SIDING/SHEATHING - APA TYPE 303 EXTERIOR.
 - MOISTURE BARRIER - KRAFT WATERPROOF BUILDING PAPER, OR 15 LB. FELT. UBC STANDARD 14-1 FOR KRAFT, 18-1 FOR FELT.
 - STUDS - DOUG FIR #2 OR HEM FIR #2 MOISTURE CONTENT NOT OVER 19%.
 - FASTENERS - NAILS SHALL BE CORROSION RESISTANT PER C.B.C. 2318.3.4. E.g. E-8 Siding and Finish Only.
 - BUILDING TRIM - 2X RESAWN SELECT D.F., H.F., OR CEDAR.
 - DOOR/WINDOW TRIM - 1X4 REWAWN D.F., H.F., OR CEDAR.
 - FRAMING CONNECTORS SHALL BE FROM SIMPSON CATALOG LATEST ED.
 - FIRE BLOCKS SHALL CONFORM TO CBC SECTION 708.
 - ALL NAILS SHALL BE COMMON NAILS UNLESS OTHERWISE NOTED.
 - FOUNDATION LUMBER: ALL CUT ENDS AND HOLES IN PRESSURE TREATED LUMBER SHALL BE TREATED WITH "COPRINOL".
- WORKMANSHIP
 - FRAMING - SECURELY NAILED, BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBLED LEVEL PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.
 - NAILING - IN ACCORDANCE WITH TITLE 24, PART 2, CALIFORNIA BUILDING CODE, TABLE 23A-11-B-1.
 - EXTERIOR WALLS - FACTORY FABRICATED. CAULKING PROVIDED BETWEEN PERIMETER OF WALL AND STRUCTURAL MEMBERS PROVIDING WEATHER-PROOF AND WATER-TIGHT SEAL. NECESSARY CLOSERS, SEALS, AND FLASHINGS PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.
 - MACHINE APPLIED NAILING: USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
 - MOISTURE BARRIER - APPLIED TO STUDS WEATHER-BOARD FASHION, HORIZONTAL JOINTS LAPPED MIN 8" INCLUDING BUILDING CORNERS. SHEATHING APPLIED OVER MOISTURE BARRIER. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING UNLESS TRANSPARENT TYPE.

SECTION 7B SHEET METAL

- SCOPE OF WORK
 - CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.
- MATERIALS
 - SHEET METAL - STEEL SHEETS HOT DIP GALVANIZED WITH 1.25 OZ. PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A528. MINIMUM 28 GA. UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - SOLDER - OF "STAND. GRADE" "A" OF EQUAL PARTS BRAND LEAD AND TIN ASTM B32.
 - FLUX - ZINC SATURATED MURIATIC ACID.
 - GUTTERS: 28 GA. G-90 GALV. STEEL. DOWNSPOUTS: 2"x1" CONVULGATED 30 GA. G-90 GALV. STEEL. GUTTER ENDCAPS: 28 GA. G-90 GALV. STEEL. GUTTER CLIPS: 18 GA. G-90 GALV. STEEL.
- WORKMANSHIP
 - SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR WORK FORMED, FABRICATED AND INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT. ALUMINUM SHALL BE SEPARATED FROM FERROUS METAL BY POLYETHYLENE TAPE OR FLOOD COAT OF ASPHALTIC PAINT.

SECTION 7C METAL ROOFING

- SCOPE OF WORK
 - CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL METAL ROOFING. TEST RESULTS SHOWING THE ROOFING SYSTEM WILL WITHSTAND THE UPLIFT OF A 80 MPH WIND SHALL BE SUBMITTED WITH THE PLANS AND SPECIFICATIONS.
- MATERIALS
 - ROOFING - 3" INCH STANDING SEAM 22-GAUGE G-90 GALV. INTERLOCKING SHEET STL PANELS (990).
 - ROOFING: CLASS B FIRE RATING.

SECTION 7J SEALANT

- SCOPE OF WORK
 - CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND SERVICES TO SEAL BUILDINGS.
- MATERIALS
 - VULKEM SEALANT, POLYURETHANE, MANUFACTURED BY WARECO INTERNATIONAL FOR ROOFS, "REGOCEL" SILICONEZED CHALK, "DUPONT, EAGLESEAL OR DAP FOR ALL OTHER APPLICATIONS OR EQUAL.
- WORKMANSHIP
 - SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO MAKE BUILDING WATER TIGHT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

SECTION CONCRETE CONCRETE (IF USED)

- CONCRETE MORTAR AND RELATED MATERIALS TO CONFORM TO APPLICABLE PROVISIONS OF TITLE 24, EXCEPT AS MODIFIED HEREIN:
 - REINFORCING BARS-ASTM A615 OR ASTM A706 DEFORMED GRADE 40 BILLET STEEL
 - EXPANSION JOINT FILLER: ASTM D994
 - FORM MATERIALS: SIDE FORMS DOUGLAS FIR. CONSTRUCTION GRADE OR BETTER; OR METAL FORMS.
 - PLACING REINFORCEMENT, PLACING CONCRETE SURFACE FINISHES, CURING AND REMOVAL OF FORMS SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF TITLE 24, PART 2.
- EXTERIOR - WOOD SIDING, TRIM AND SKIRTING FLAT OR SEMI-GLOSS LATEX - APPLY ONE COAT OF PRIME AND AT LEAST ONE FINISH COAT. PRIME COAT SHALL BE BRUSHED ON OR SPRAYED AND BACK BRUSHED INTO ALL GROOVES IN THE SIDING. IF NECESSARY, IN THE OPINION OF THE INSPECTOR, AN EXTRA COAT SHALL BE APPLIED TO ALL GROOVES SO THAT THE FINISH COAT WILL HAVE A UNIFORM APPEARANCE. ALLOW PRIME COAT TO DRY ACCORDING TO MANUFACTURER'S RECOMMENDATION. PRIME AND FINISH COATS SHALL BE COMPATIBLE AND MANUFACTURED BY THE SAME COMPANY.
- INTERIOR TRIM - TRIM NOT PRECOATED SHALL BE PAINTED WITH TWO COATS OF SEMI-GLOSS LATEX OVER PRIMER.
- INTERIOR HARDWOOD CABINETS - TWO COATS LOW LUSTER POLYURETHANE FINISH. APPLY FIRST COAT THINNED WITH ONE QUART MINERAL SPIRITS PER GALLON. APPLY SECOND COAT AS RECOMMENDED BY MANUFACTURER.
- METAL - ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALKYL FINISH COAT OVER ZINC CHROMATE OR EQUAL RUST INHIBITING PRIMER.
- RAMP - ONE COAT OF FERROX NON-SKID SURFACING AS MANUFACTURED BY AMERICAN ABRASIVE METALS OR COMPARABLE.
- ALL PAINTS OF THE TYPE INDICATED SHALL BE LISTED ON THE STATE OF CALIFORNIA QUALIFIED PRODUCTS LIST FOR MAINTENANCE PAINTS 801C-910-984 DATED JULY 1989. OR EQUAL.
- SUBMIT ONE SET COLOR SAMPLES TO ARCHITECT FOR EACH PRODUCT TO ASSIST IN SELECTION.

SECTION 8B HOLLOW METAL DOORS AND FRAMES

- SCOPE OF WORK
 - CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS AND FRAMES.
- MATERIALS
 - DOORS - TYPE L FULL FLUSH, MANUFACTURED BY AMWELD MANUFACTURING COMPANY, 18 GA. 1 3/4" THICK PER CS242 MIN. REINFORCE FOR HARDWARE-BOTH FACES FOR CLOSER, SOUND DEADEN INTERIOR.
 - FRAMES - 16 GA. COLD ROLLED, 2" FACES, CS242 MIN. 3 ANCHORS PER JAMB + ADJUSTABLE FLOOR ANCHOR EACH JAMB REINFORCE FOR HARDWARE. PROVIDE STRIKE BOLTS PROVIDE REINFORCE FOR HARDWARE. PROVIDE UNDERCOPING OR INSULATING FILL. SOUND DEADENING: 1/8" UNDERCOPING OR INSULATING FILL.
- WORKMANSHIP
 - ALL WORK FABRICATED IN SHOP TO REQUIRED PROFILES BY FORMING AND WELDING, WITH ARISES AND EDGES STRAIGHT, SHARP FIT FABRICATED ACCURATELY WITH SQUARE CORNERS, HAIRLINE JOINTS AND SURFACES FREE FROM WARP, WAVE, BUCKLE OR OTHER DEFECTS AFTER FABRICATION. DOORS AND FRAMES CLEANED THOROUGHLY, ALL WELDS GROUND SMOOTH AND GIVEN PRIME COAT.

SECTION 8C FINISH HARDWARE

- SCOPE OF WORK
 - CONTRACTOR SHALL SUPPLY AND INSTALL FINISH HARDWARE AS SPECIFIED AND AS REQUIRED.
 - SCHEDULE FOR EXTERIOR DOORS
- SPECIAL REQUIREMENTS
 - EXIT DOORS SHALL BE OPENABLE FROM THE INTERIOR WITHOUT KEY OR SPECIAL KNOWLEDGE OR EFFORT.
 - CLOSERS SHALL BE SET FOR A MAXIMUM OPENING PRESSURE OF 8.5 LBS. PRESSURE.

SECTION 8E PAINTING

- SCOPE OF WORK
 - CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDINGS. ALL EXPOSED SURFACES OF BUILDING AND RAMPS SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES, THRESHOLDS, AND ROOFING.
- MATERIALS
 - FOR EXTERIOR WOOD:

REF. BRAND	DUNN	KELLY	SHERWIN	SINCLAIR
PRIMER	42-9W	1240	Y24W20	289-N
FINISH	00-9X-XX	1240-XXX	B54W2102	GE2-NXX
 - FOR INTERIOR TRIM

REF. BRAND	DUNN	KELLY	SHERWIN	SINCLAIR
PRIMER	43-4	1710	B50N26	15N
FINISH	10-XX	1700-XXX	B54W2102	GE2-NXX
 - FOR METAL

REF. BRAND	DUNN	KELLY	SHERWIN	SINCLAIR
PRIMER	42-9W	1240	Y24W20	289-N
FINISH	00-9X-XX	1240-XXX	B54W2102	GE2-NXX
- WORKMANSHIP
 - ALL EXPOSED SURFACES SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES AND THRESHOLDS. MATERIAL SHALL BE OF THE GRADE SPECIFIED OR EQUAL.
 - EXTERIOR - WOOD SIDING, TRIM AND SKIRTING FLAT OR SEMI-GLOSS LATEX - APPLY ONE COAT OF PRIME AND AT LEAST ONE FINISH COAT. PRIME COAT SHALL BE BRUSHED ON OR SPRAYED AND BACK BRUSHED INTO ALL GROOVES IN THE SIDING. IF NECESSARY, IN THE OPINION OF THE INSPECTOR, AN EXTRA COAT SHALL BE APPLIED TO ALL GROOVES SO THAT THE FINISH COAT WILL HAVE A UNIFORM APPEARANCE. ALLOW PRIME COAT TO DRY ACCORDING TO MANUFACTURER'S RECOMMENDATION. PRIME AND FINISH COATS SHALL BE COMPATIBLE AND MANUFACTURED BY THE SAME COMPANY.
 - INTERIOR TRIM - TRIM NOT PRECOATED SHALL BE PAINTED WITH TWO COATS OF SEMI-GLOSS LATEX OVER PRIMER.
 - INTERIOR HARDWOOD CABINETS - TWO COATS LOW LUSTER POLYURETHANE FINISH. APPLY FIRST COAT THINNED WITH ONE QUART MINERAL SPIRITS PER GALLON. APPLY SECOND COAT AS RECOMMENDED BY MANUFACTURER.
 - METAL - ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALKYL FINISH COAT OVER ZINC CHROMATE OR EQUAL RUST INHIBITING PRIMER.
 - RAMP - ONE COAT OF FERROX NON-SKID SURFACING AS MANUFACTURED BY AMERICAN ABRASIVE METALS OR COMPARABLE.
 - ALL PAINTS OF THE TYPE INDICATED SHALL BE LISTED ON THE STATE OF CALIFORNIA QUALIFIED PRODUCTS LIST FOR MAINTENANCE PAINTS 801C-910-984 DATED JULY 1989. OR EQUAL.
 - SUBMIT ONE SET COLOR SAMPLES TO ARCHITECT FOR EACH PRODUCT TO ASSIST IN SELECTION.

SECTION 13F SITE ASSEMBLY

- SCOPE OF WORK
 - CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE. THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT UNLESS SPECIFICALLY CALLED FOR IN THE CONTRACT, STEPS, RAMPS, OR HANDRAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - ASSEMBLY OF ELEMENTS
 - IN A LOCATION ON THE SITE AS DETERMINED BY THE SCHOOL DISTRICT (APPROVED BY DSA) THE CONTRACTOR SHALL PLACE WOOD LEVELING STRIPS OR OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWINGS.
 - THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSPORTED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING EACH OTHER.
 - CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTION ON THE DRAWINGS. FLASHINGS, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.
- NOTE:
 - WALL FINISH MATERIAL
 - FLAME SPREAD MAX = 200
 - SMOKE DENSITY MAX = 450
 - BUILDING INSULATION
 - FLAME SPREAD MAX = 25
 - SMOKE DENSITY MAX = 450
 - PIPE INSULATION
 - FLAME SPREAD MAX = 25
 - SMOKE DENSITY MAX = 450
 - DUCT INSULATION
 - FLAME SPREAD MAX = 25
 - SMOKE DENSITY MAX = 50

SECTION 15A AIR CONDITIONING

- SCOPE OF WORK (SEE SHEET M-1 FOR HVAC SPEC. AND NOTES)
 - CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL THE AIR CONDITIONING SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS, INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTAT, GRILLS AND POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRUCT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C SYSTEM.
 - EQUIPMENT
 - SEE NOTE ON FLOOR PLAN FOR SIZE AND TYPE.
 - WORKMANSHIP
 - UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

SECTION 16A ELECTRICAL

- SCOPE OF WORK
 - CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES FOR ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES, IN OPERATING CONDITION READY FOR USE. THE WORK INCLUDES: LIGHT AND POWER SYSTEMS, LIGHTING FIXTURES COMPLETE WITH LAMPS, CONNECTIONS AND DISCONNECTS TO A/C EQUIPMENT.
 - MATERIALS
 - ALL NEW COMPLYING WITH REQUIREMENTS OF CALIFORNIA ELECTRICAL CODE AND NATIONAL FIRE PROTECTION ASSOCIATION.
 - ELECTRIC METALLIC TUBING - COUPLING AND FLEX CONDUIT GALVANIZED OR SHERARDIZED, EXTERIOR FLEX- GALV. STEEL W/ FACTORY APPLIED P.V.C. JACKET.
 - PANELBOARDS - FLUSH MOUNTED.
 - CONDUCTORS - COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6, TYPE THW FOR LARGER SIZES. MINIMUM SIZE - #14.
 - RECEPTACLES - AS NOTED. 4-18" A.F.F. MIN.
 - CLOCK RECEPTACLE AS NOTED.
 - SWITCHES - AS NOTED. 4-18" A.F.F. MAX.
 - LIGHTING FIXTURES - AS NOTED ON THE DRAWINGS.
 - WORKMANSHIP
 - MATERIALS AND EQUIPMENT INSTALLED IN A SECURE NEAT WORKMANLIKE MANNER IN ACCORDANCE WITH REQUIREMENTS. PANELBOARD CARDS FILLED OUT. CONDUIT AND CABLE INSTALLED IN WALL AND CEILING SPACES. WORK PIERCING WATERPROOFED AREAS SHALL BE SEALED TO A WATER TIGHT CONDITION.
 - BUILDING CONDUIT/WIRING FROM FACE OF BLDG TO SITE TERMINATION BY SITE CONTRACTOR (N.I.C.), (FLEXIBLE CONDUIT S-BEND SEALTITE)
- INSPECTION
 - INSPECTION OF PREFABRICATED BUILDINGS IS DIVIDED INTO TWO SEPARATE FUNCTIONS.
 - IN-PLANT INSPECTION.
 - ON-SITE INSPECTION.
 - THE CONTRACTOR SHALL ALLOW UP TO SEVEN (7) DAYS FROM THE DATE OF PLAN APPROVAL TO OBTAIN AN IN-PLANT INSPECTOR APPROVED BY D.S.A.

MATERIALS AND WORKMANSHIP

ALL CONTRACTORS SHALL CERTIFY THAT NO ASBESTOS-CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.

ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED UNLESS OTHERWISE SPECIFIED SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED. THE CONTRACTOR SHALL, IF REQUESTED, FURNISH EVIDENCE SATISFACTORY TO THE ARCHITECT THAT SUCH IS THE CASE.

CONTRACTOR'S CREWS ASSIGNED TO ANY WORK PERFORMED UNDER THIS CONTRACT SHALL INCLUDE ONE COMPETENT AND FULLY EXPERIENCED PERSON DESIGNATED AS THE RESPONSIBLE PERSON IN CHARGE. SUCH PERSON MUST BE IDENTIFIED BY NAME TO THE DISTRICT IN ADVANCE OF ANY WORK. UPON REQUEST, THE CONTRACTOR SHALL PROMPTLY FURNISH TO THE DISTRICT INFORMATION RELATING TO THIS EMPLOYEE'S EXPERIENCE.

WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION MANUALS FOR A FINISHED PRODUCT. A QUALITY CONTROL SUPERVISOR, DESIGNATED BY THE MANUFACTURER, SHALL REVIEW ALL WORK IN PROGRESS AND SHALL REVIEW THE FINISHED BUILDING PRIOR TO FINAL INSPECTION TO ASSURE IT IS COMPLETE AND CORRECT. THE QUALITY CONTROL SUPERVISOR SHALL HAVE THE AUTHORITY TO HAVE MATERIALS REPLACED AND WORK REDONE IN ORDER TO CORRECT FAULTY MATERIALS OR WORKMANSHIP.

GENERAL DESIGN REQUIREMENTS:

- (2) APPROXIMATELY 12' X 40' MODULES DESIGNED SO THAT TWO MODULES MAY BE JOINED TOGETHER TO FORM A COMPLETE STRUCTURE TO MAINTAIN A POSITIVE ALIGNMENT OF FLOORS, WALLS, AND ROOF AND TO PERMIT SIMPLE NON-DESTRUCTIVE DETACHMENT FOR FUTURE RELOCATION.
- EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH AN IMPRINTED (STAMPED NOT ENGRAVED) METAL IDENTIFICATION TAG 3X1 - 1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:
 - MANUFACTURER'S BUILDING NUMBER.
 - DESIGN WIND LOAD / EXPOSURE
 - DESIGN FLOOR LIVE LOAD
 - DESIGN FLOOR LIVE LOAD
 - D.S.A. APPLICATION NUMBER.
- TWO TAGS PER MODULE ONE ON EXT. AND ONE ON INTERIOR MODULE BEAM AT FRONT OF BUILDING ABOVE CEILING.

EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION.

(NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION AND RELOCATIONS IS ACCEPTABLE.) WHEN MODULES ARE ASSEMBLED JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER MATERIAL TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF.

EACH 12' X 40' MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE SUPPORTED OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE ARCHITECT OR STRUCTURAL ENGINEER, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.

FINISH AND BASE MATERIALS AT EACH MODULE SHALL TERMINATE AT INTERIOR MODULE JOINTS IN A MANNER TO JOIN FLUSH AND TIGHT WITH SAME MATERIAL IN ADJACENT MODULE SO THE MODULE MAY BE RELOCATED WITH MINIMUM CUTTING AND PATCHING.

DIMENSIONS

THE BUILDINGS SHALL OCCUPY AN AREA OF 668 SQUARE FEET WITH A TOLERANCE OF MINUS 5 SQUARE FEET. THE BUILDINGS SHALL BE 24' X 40'. ALL BUILDINGS SHALL MEET THE SQUARE FOOTAGE REQUIREMENT. LINEAR DIMENSIONS SHALL BE VERTICAL TRIM FINISH LINE TO VERTICAL TRIM FINISH LINE.

FASCIA AND REQUIRED OVERHANGS ARE NOT INCLUDED IN THE CALCULATION OF THE SQUARE FOOTAGE OF THE BUILDING OCCUPIED. THE ENTRANCE WALL SHALL HAVE A 5' MINIMUM ROOF OVERHANG. THE REAR WALL SHALL HAVE A MINIMUM 2' OVERHANG. FULL LENGTH GUTTERS AND DOWNSPOUTS SHALL BE FURNISHED ON THE SIDES OF EACH OVERHANG AND EACH ROOF EDGE WHERE DRAINAGE OCCURS. THE INTERIOR HEIGHT FLOOR TO CEILING SHALL BE 8'-6" U.O.N. THE MODULE SHALL BE CLEAR SPAN TYPE EXCEPT AS PROVIDED FOR IN THE BID SPECIFICATIONS NOTHING SHALL PROTRUDE MORE THAN 1" BELOW THE CEILING LEVEL.

ITEMS NOTED AS N.I.C. (NOT IN CONTRACT) OR "BY OTHERS" IS THE RESPONSIBILITY OF THE SCHOOL DISTRICT DEPENDING ON THE AGREEMENT WITH DISTRICT.

IN THE EVENT OF CONFLICT BETWEEN THESE SPECIFICATIONS AND THE DISTRICT BID SPECIFICATIONS, THE DISTRICT SPECIFICATIONS SHALL PREVAIL.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPL 01-117316

DATE 1/10/18

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

02 101837

DATE JAN 12 2000

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

APPL 01-101488

DATE OCT 19 1999

CUSTOMER:

DATE: 10-19-99
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS					
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

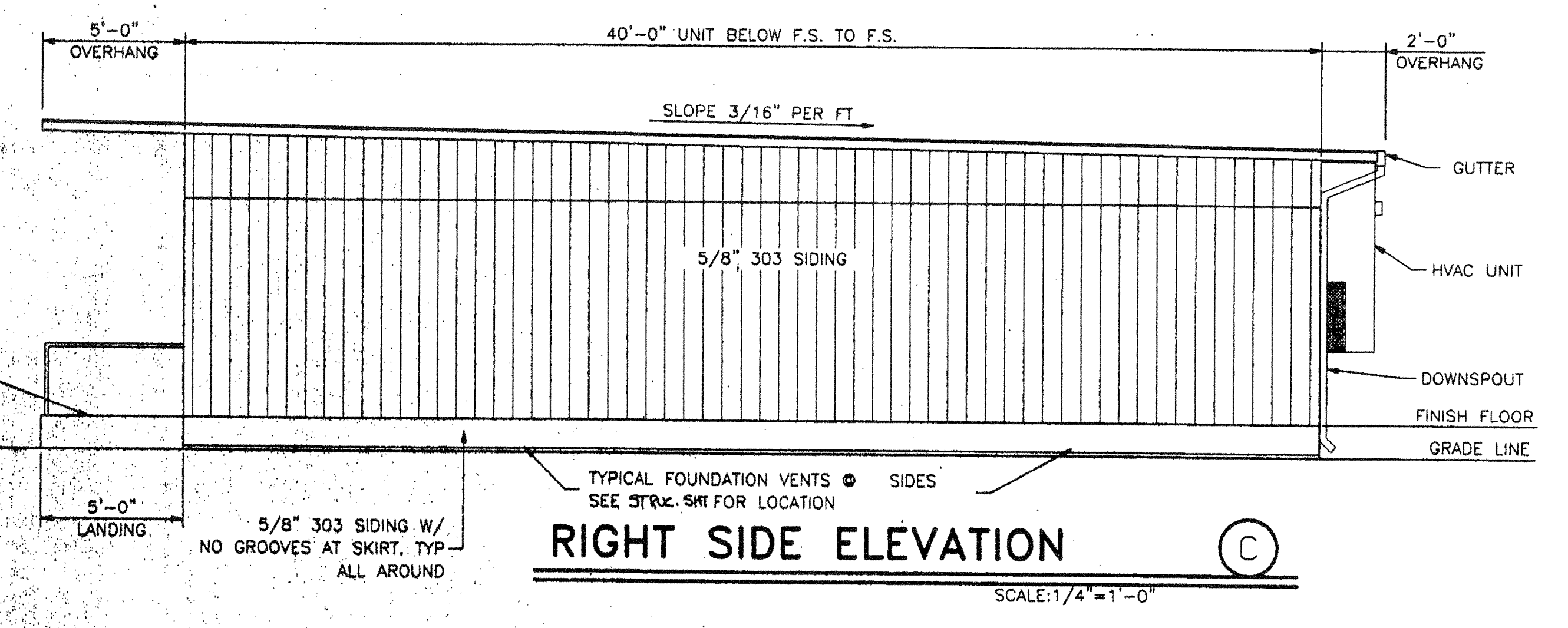
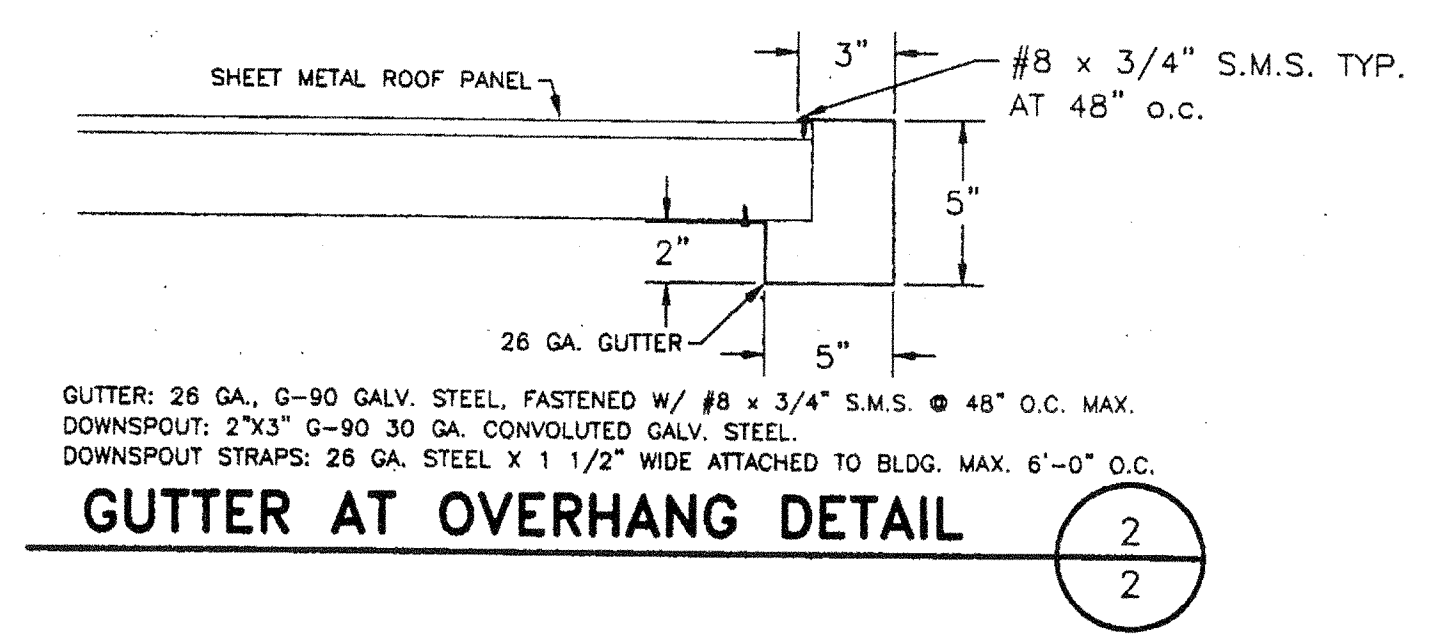
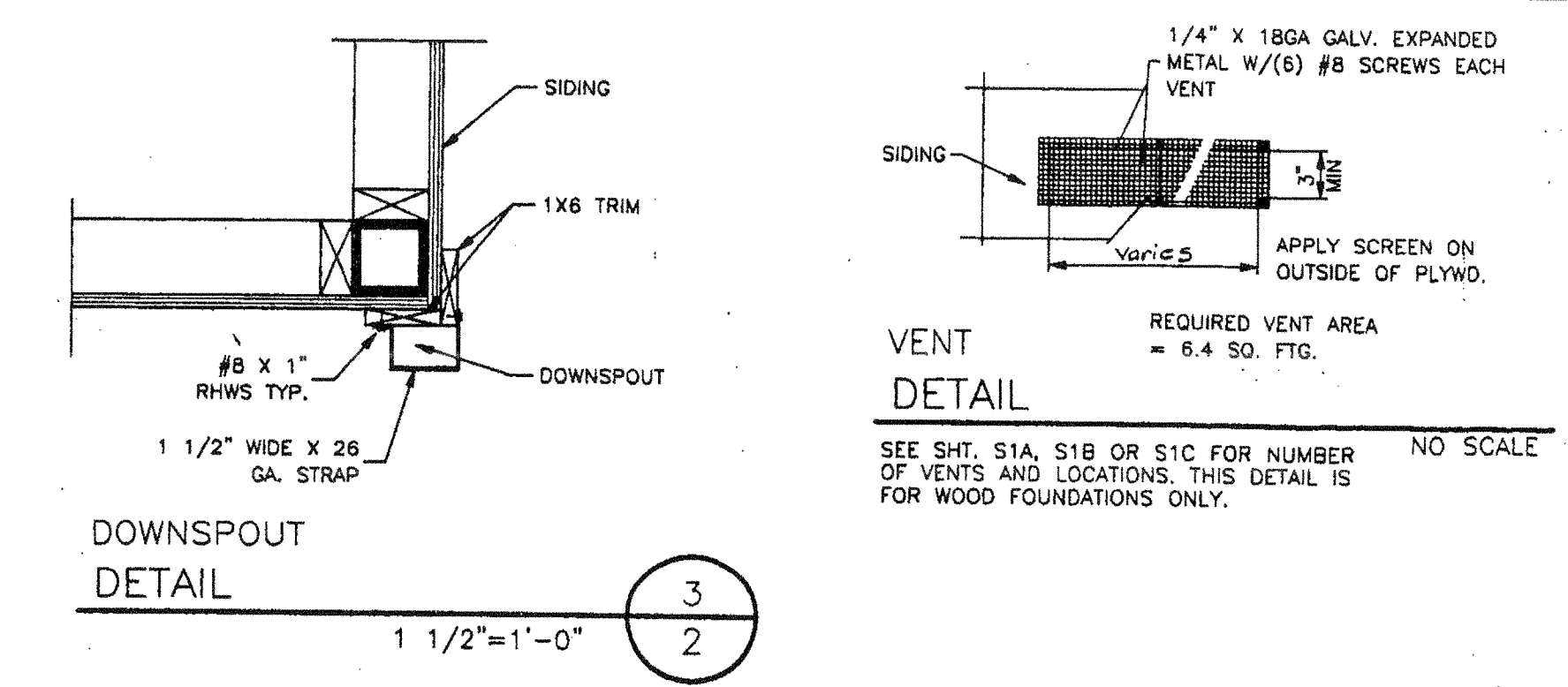
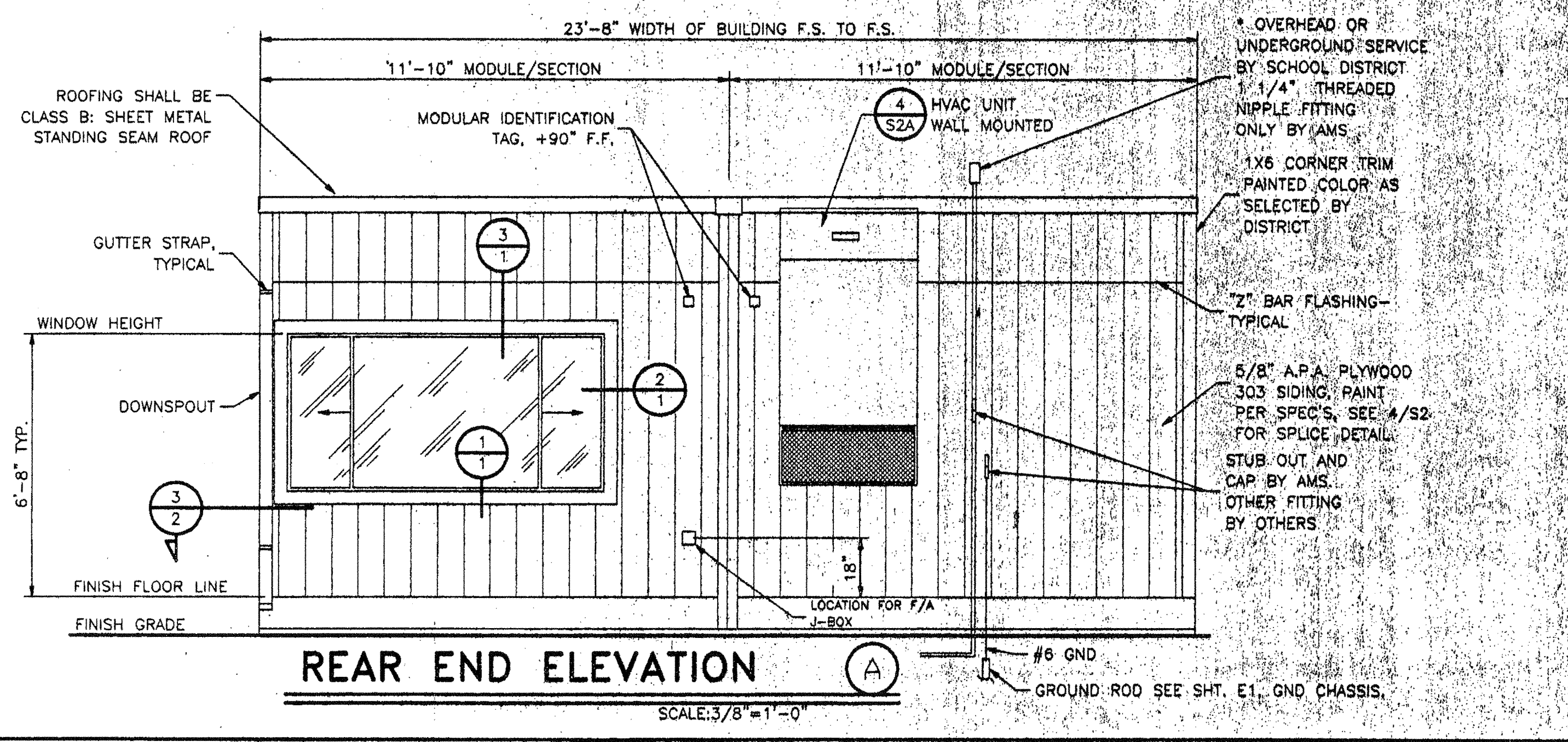
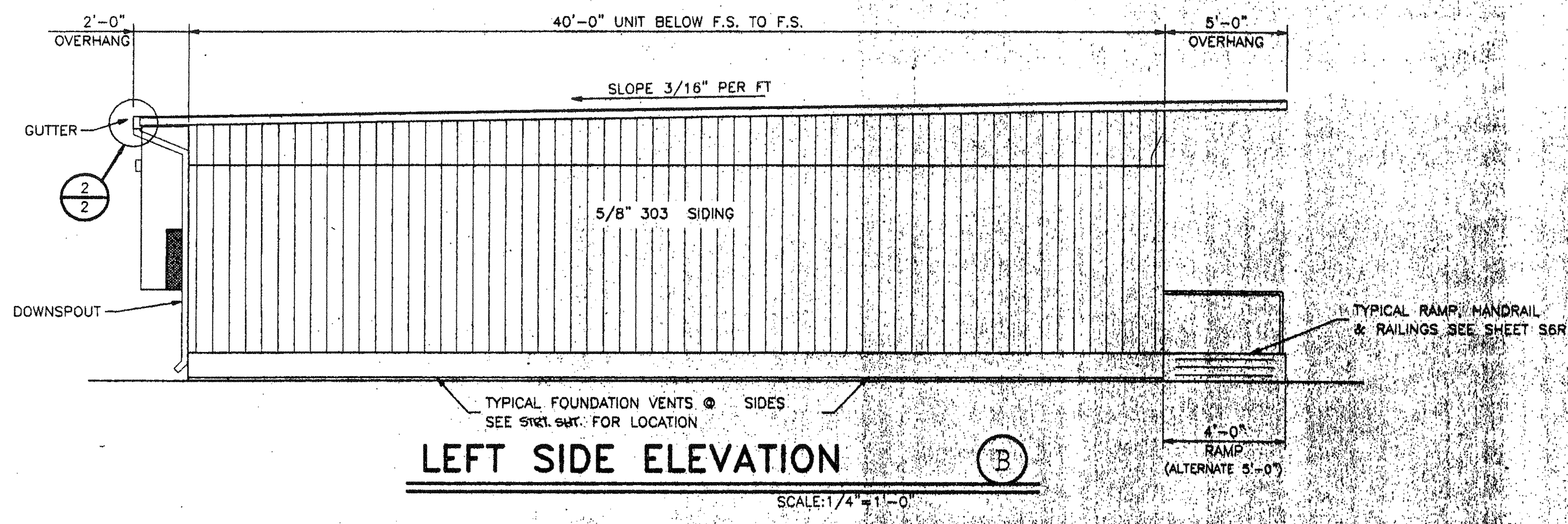
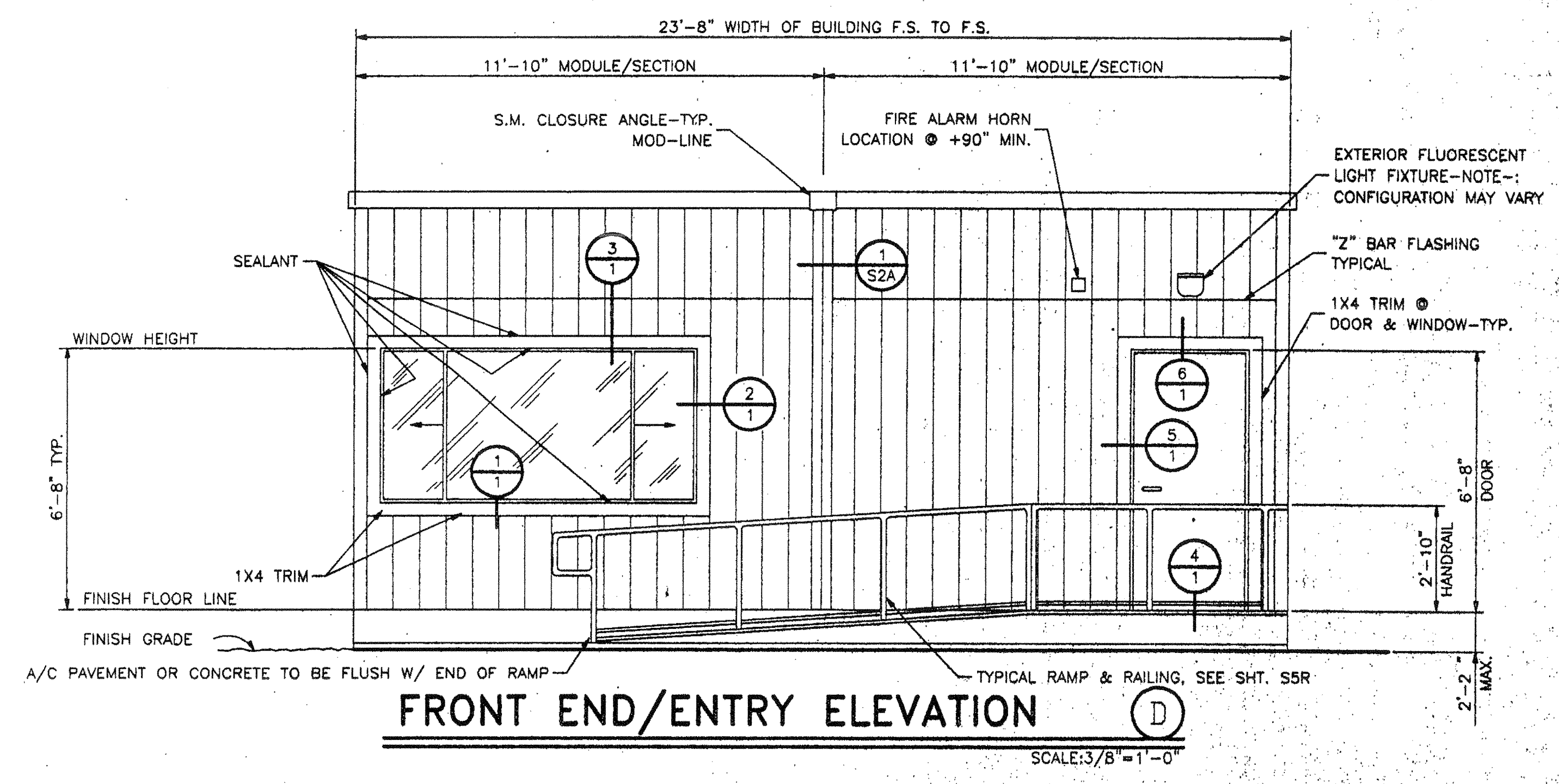
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N-1

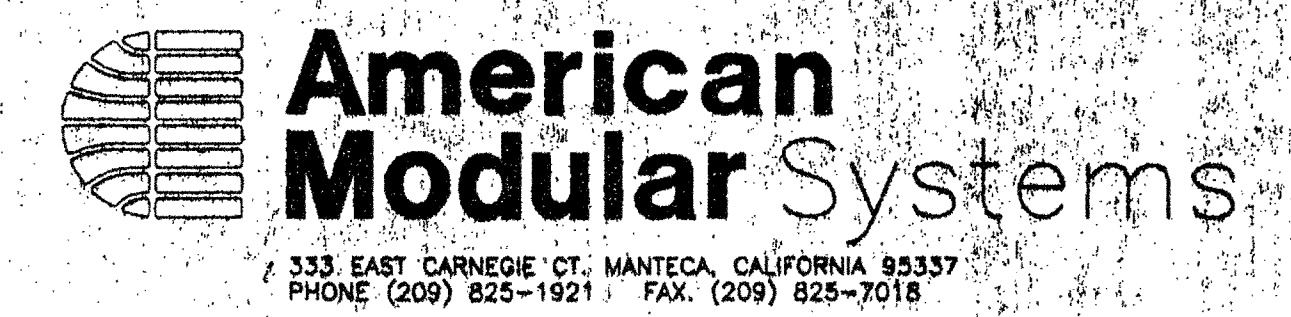


333 EAST CARRIAGE CT. WATFORD, CALIFORNIA 95337
PHONE (209) 825-1921 FAX (209) 825-7018

GENERAL NOTES



24 X 40
RELOCATABLE
CLASSROOMS



CUSTOMER: _____

EXTERIOR ELEVATIONS

DATE: 10-19-99
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS					
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

PROJECT No. _____

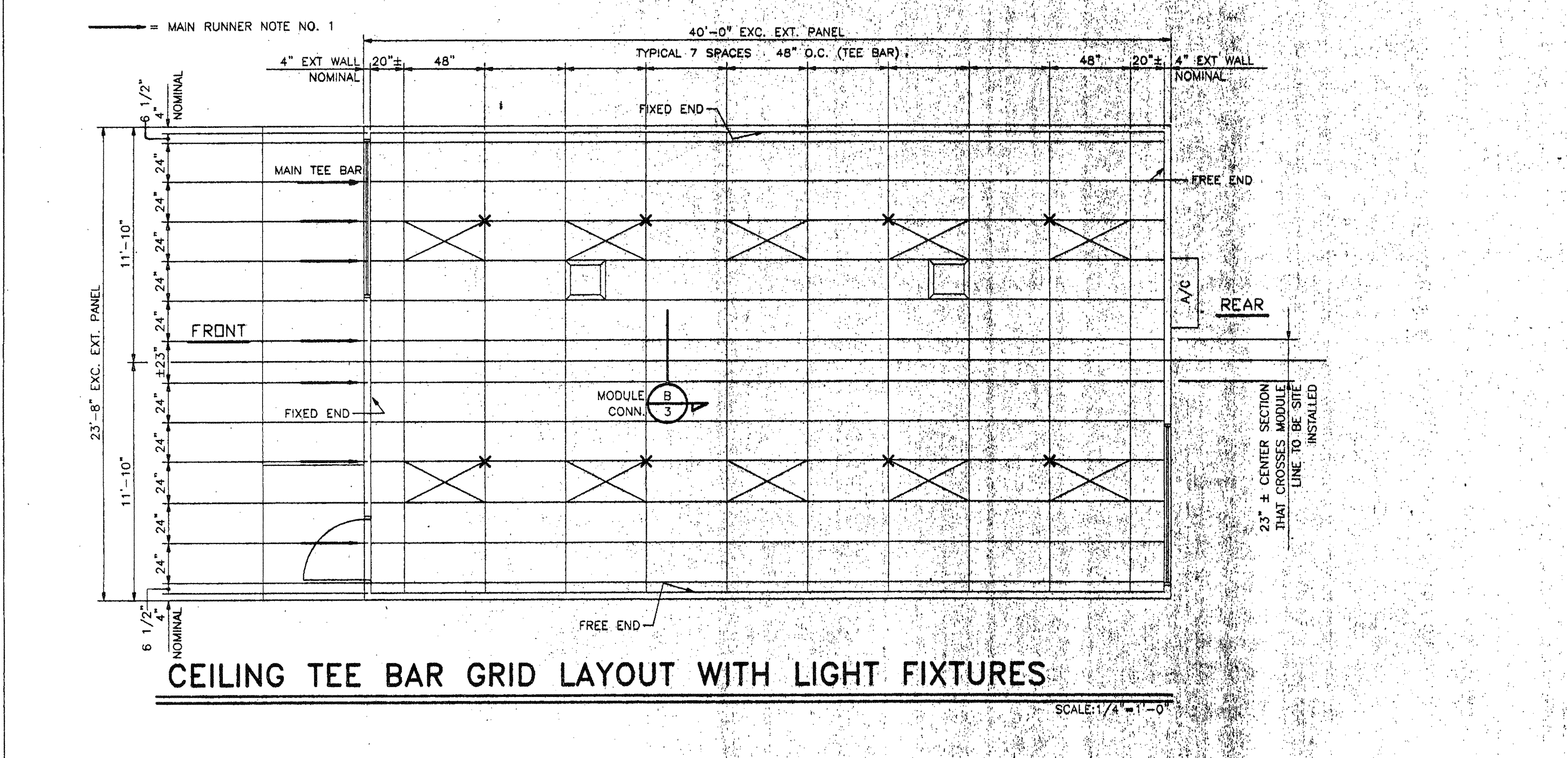
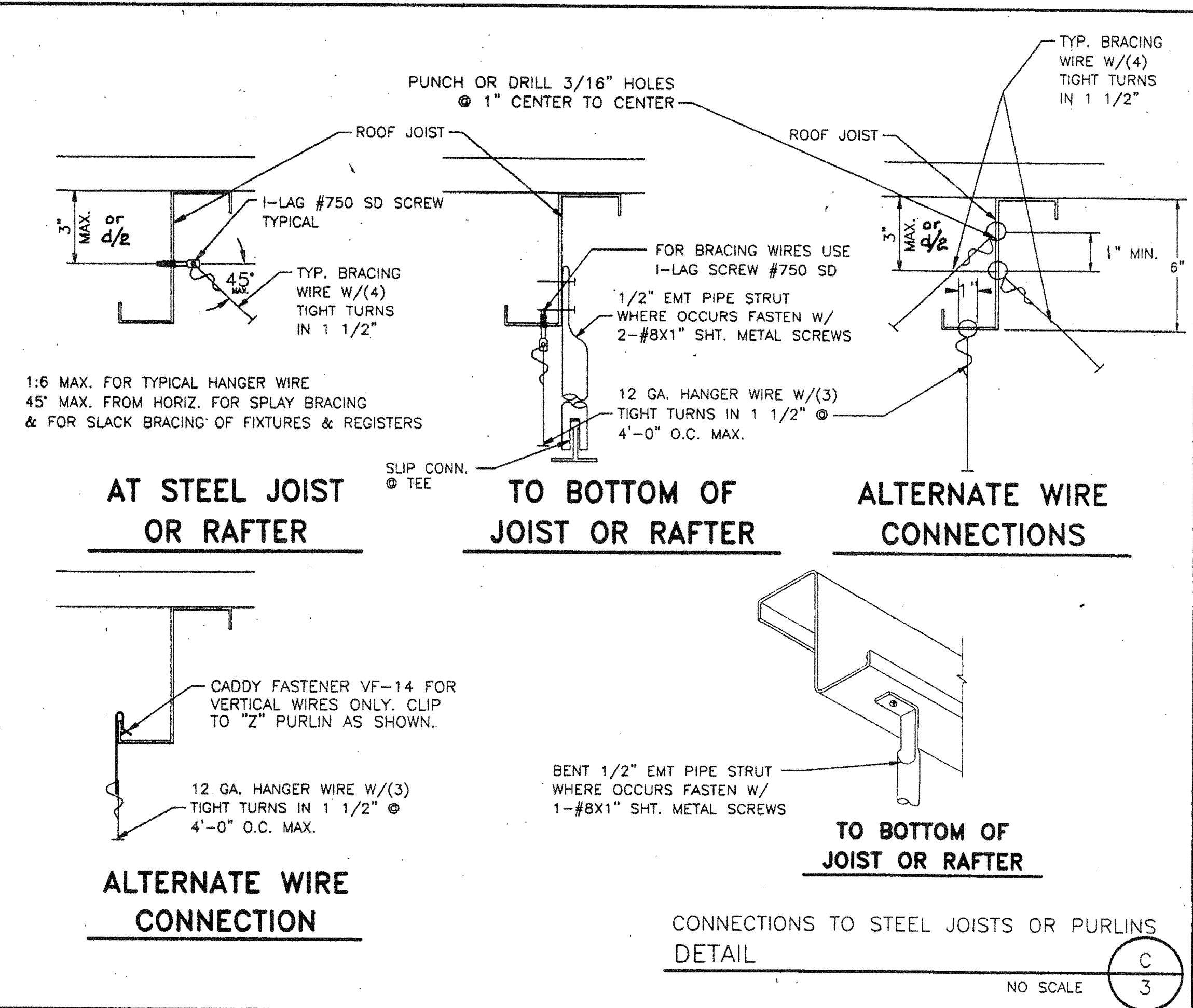
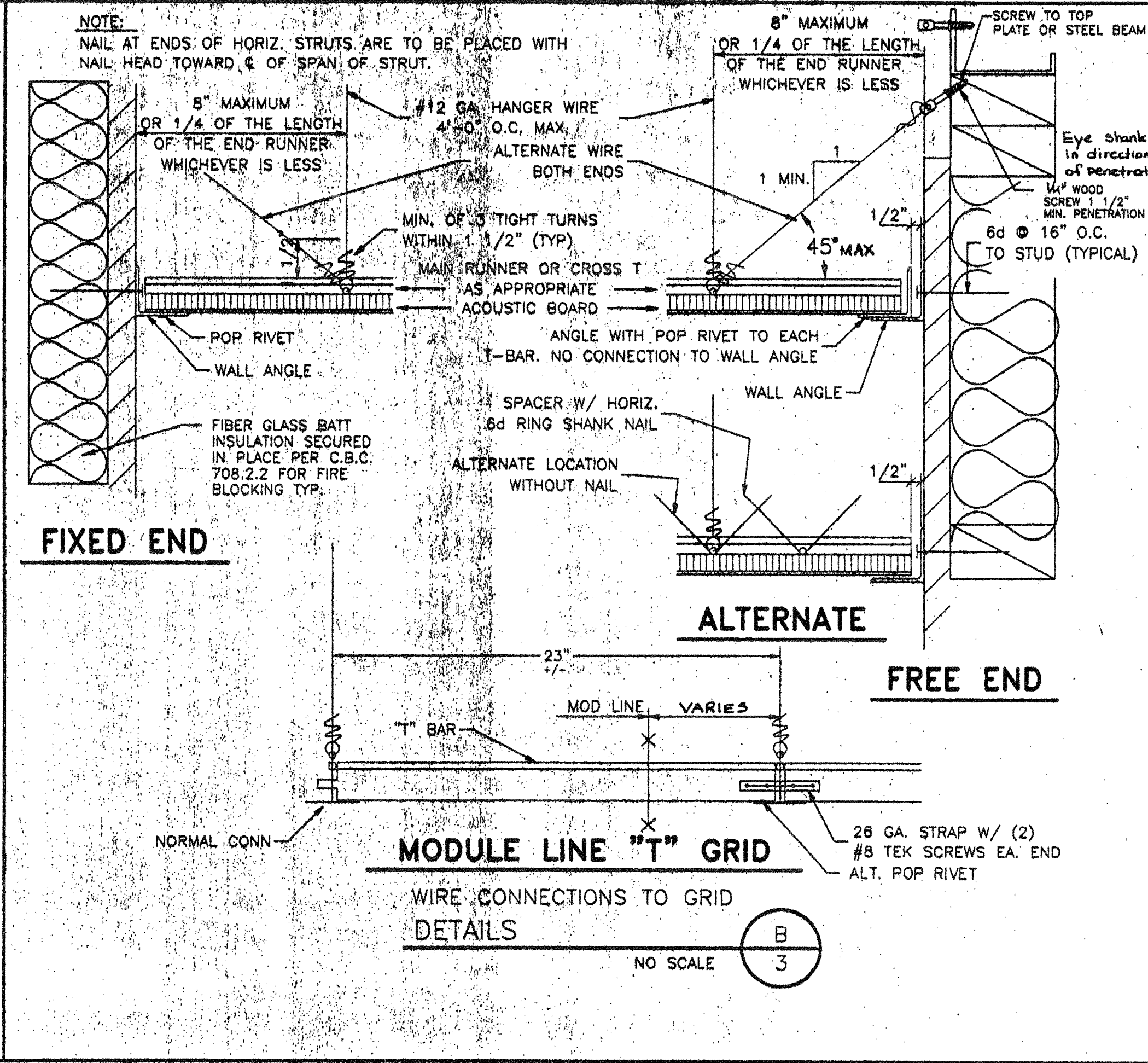
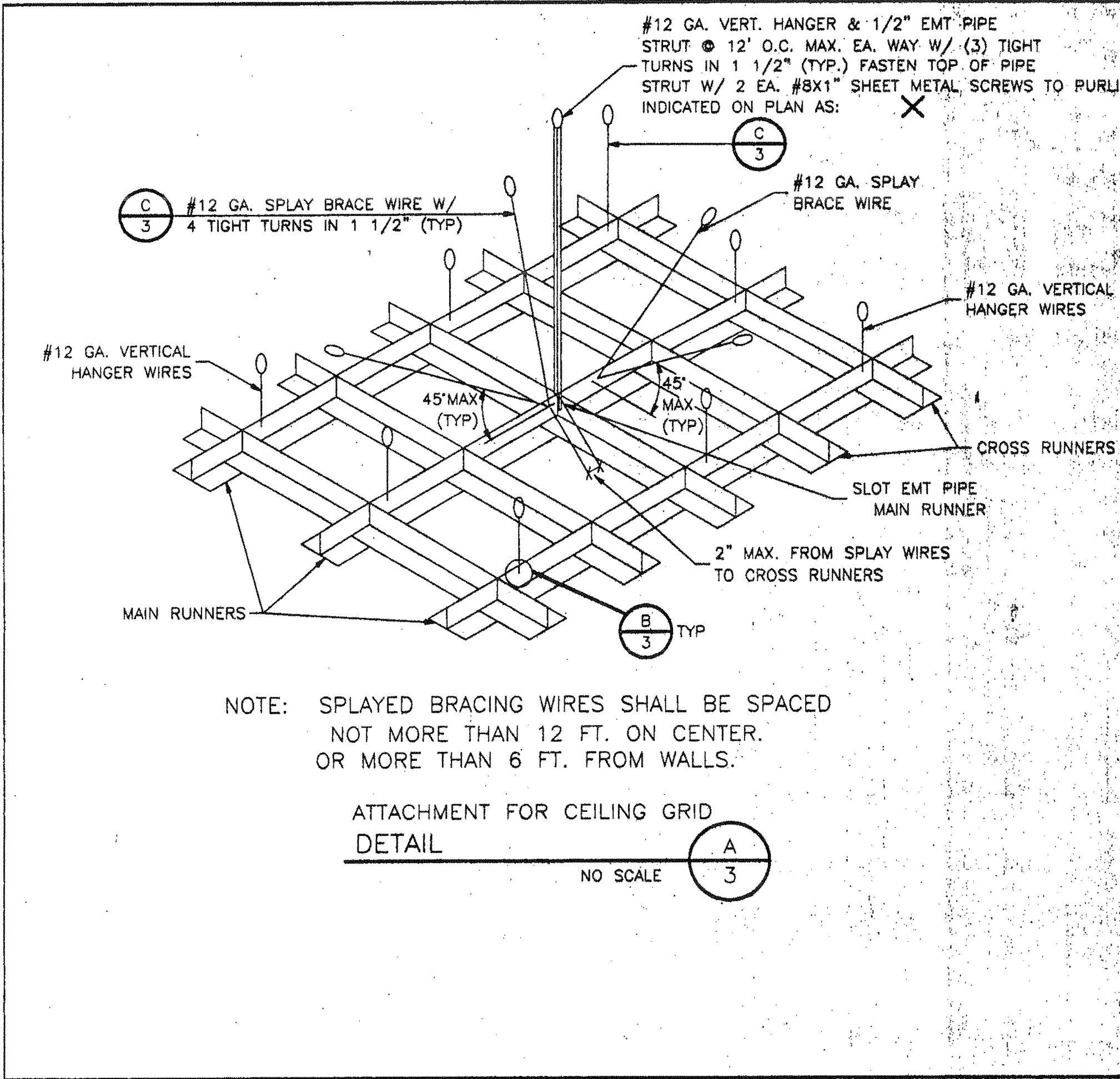
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APPL 01-117316
DATE 1/10/18

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02 101837
AC 2 FLS 102 SS AH
DATE JAN 12 2000

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02 102043
AC 2 FLS 102 SS AH
DATE 10 16 2000

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APPL 01-117316
AC 2 FLS 102 SS AH
DATE OCT 19 1999



- METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING
- 12 GA. (MIN) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0" GRID SPACING, ALONG MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY DSA.
 - PROVIDE 12 GA HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS AT THE PERIMETER OF THE CEILING AREA.
 - PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREA. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTERBRACED WIRES.
 - CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 1/2 INCH FREE OF OTHER WALLS. If walls run diagonally to ceiling grid system runners, one end of main and cross runners should be free and a minimum of 1/2 inch clear of wall.
 - AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED, WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 12" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
 - PROVIDE SETS OF 4-#12 GA SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:
 - (A) FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
 - (B) PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS
 - FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
 - SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC. IT IS ACCEPTABLE TO ATTACH LIGHT-WEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL DIAMETER, TO HANGER WIRES USING CONNECTORS ACCEPTABLE TO DSA.
 - ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES.
 - FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF 2-#12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
 - CLASSIFICATION OF CEILING GRID:
CLASSIFICATION OF CEILING GRID IS "HEAVY DUTY"
PER ASTM C635
MANUFACTURER'S CATALOG NUMBER - MAIN RUNNER HEAVY DUTY
MANUFACTURER'S CATALOG NUMBER - MAIN TEE OR EQUAL PER TABLE A.
MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER PER TABLE A.
MANUFACTURER'S CATALOG NUMBER OF DETAIL FOR RUNNER SPlice N/A.
ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE ASTM FLAME SPREAD CLASS 1, 24" X 48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM. MAXIMUM SMOKE DENSITY NOT TO EXCEED 450.
- NOTE: ALL GRID COMPONENTS SHALL BE BY SAME MANUFACTURER
- | TABLE A HEAVY DUTY GRID COMPONENTS | | | |
|------------------------------------|----------|-------------------|-------------------|
| MANUFACTURER | MAIN TEE | H.D. 4" CROSS TEE | H.D. 2" CROSS TEE |
| DOWN/USA | 04-218 | 04-424 | 04-218 |
| ARMSTRONG | 7301 | 7341 | 7333 |
| CHICAGO MFG. | 200-01 | 1204-01 | 1226-01 |
- NOTE: ALL GRID COMPONENTS SHALL BE BY SAME MANUFACTURER

24 X 40
RELOCATABLE
CLASSROOMS

333 EAST CARNEGIE CT. MANTECA, CALIFORNIA 95337
PHONE (209) 825-1921 FAX (209) 825-7018

CUSTOMER:

DATE: 10-19-99
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

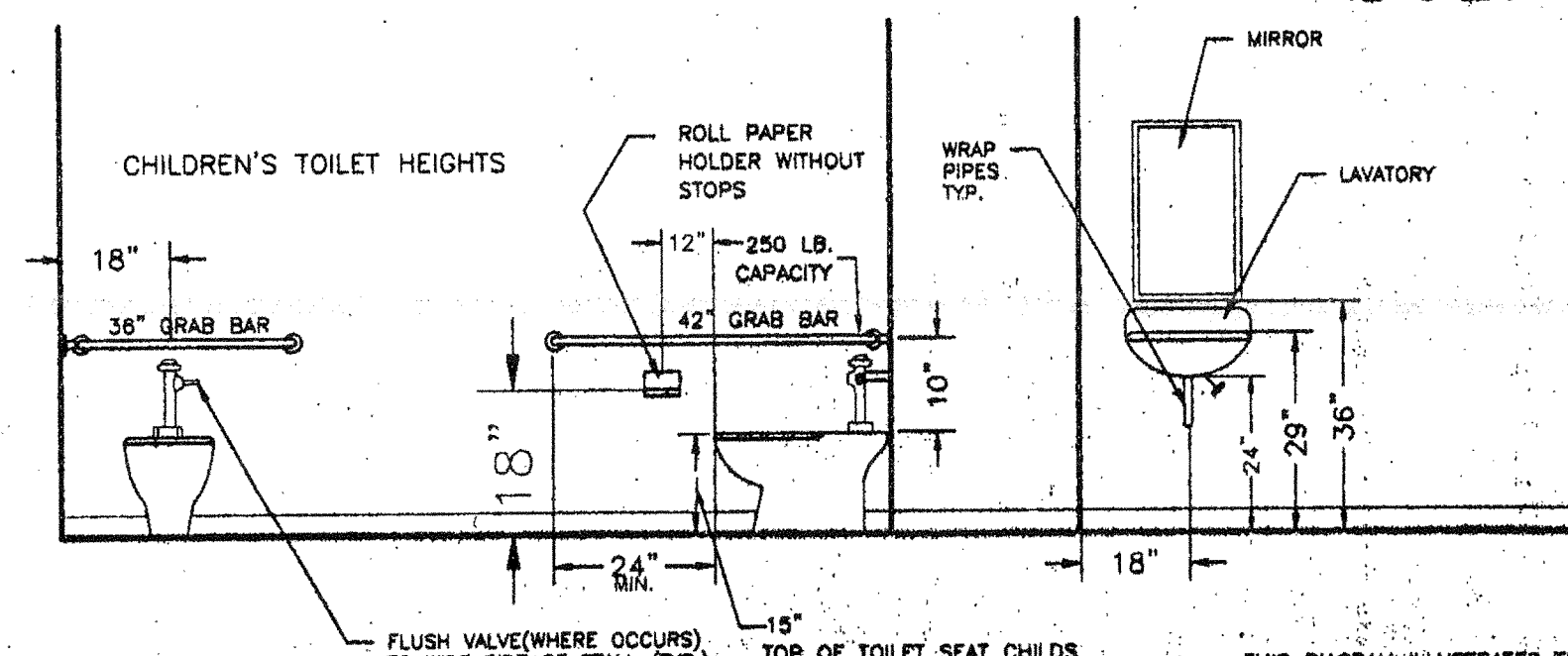
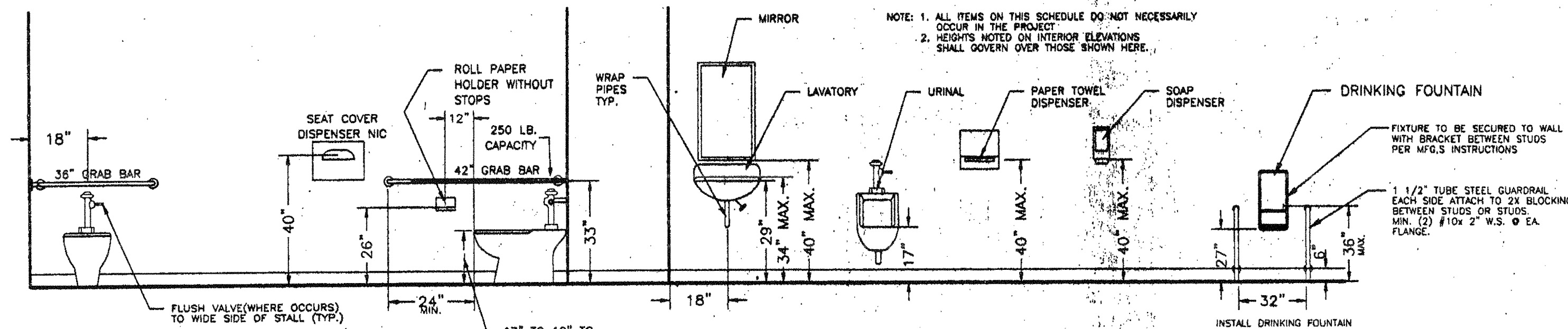
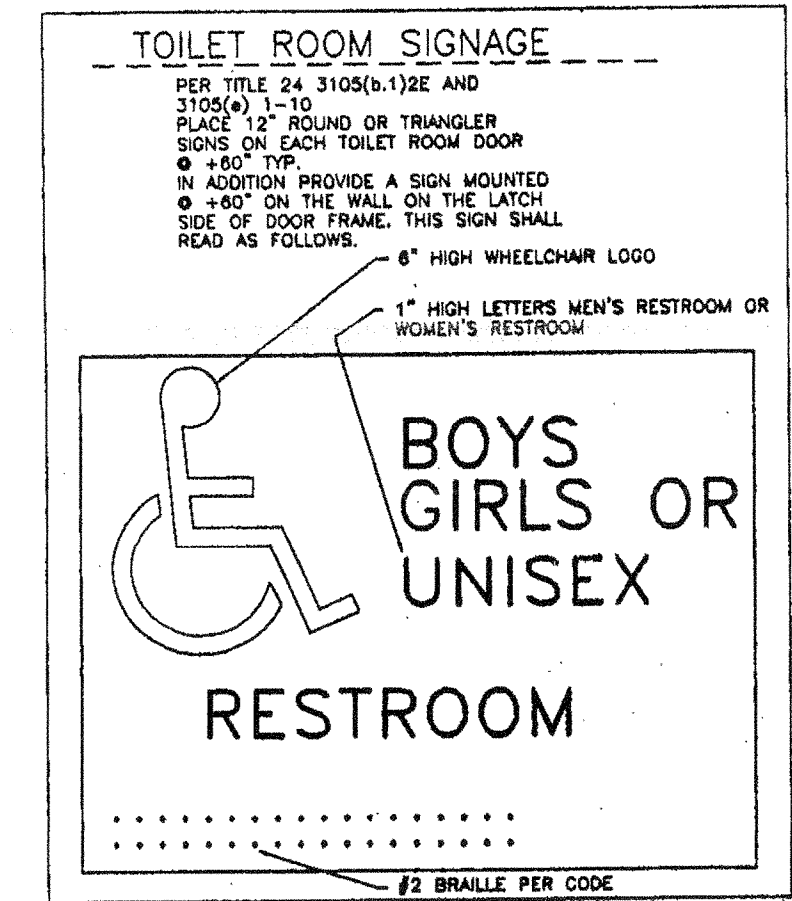
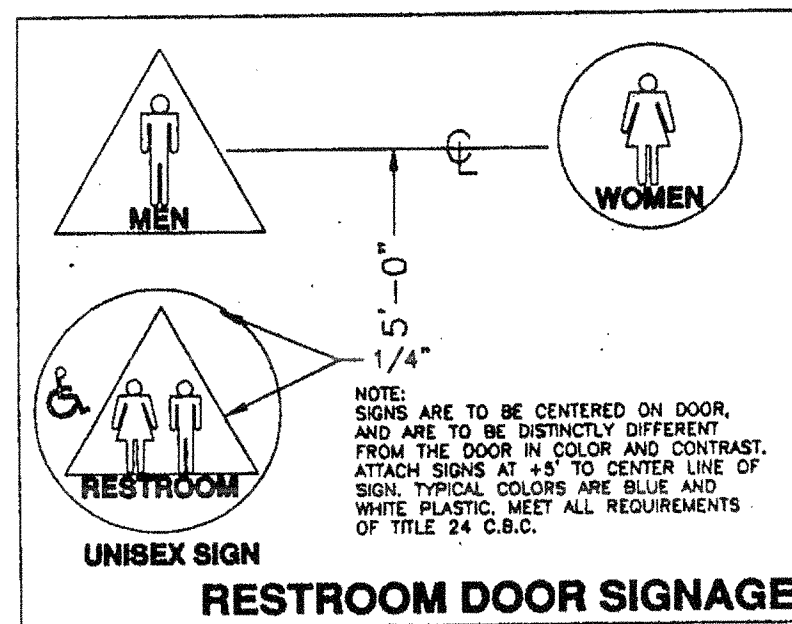
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SHEET No.
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IDENTIFICATION STAMP
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APPL 01-117316
ACS - FLS - 888 P.M.
DATE: 11/10/98

FILE NO.
02 105043

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APPL 02-01488
ACS - FLS - 888 P.M.
DATE: OCT 19 1999



THIS DIAGRAM ILLUSTRATES THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND IS INTENDED ONLY AS AN AID FOR BUILDING AND CONSTRUCTION ACCESSIBLE SANITARY FACILITIES.

DETAIL

NO SCALE

JOIST INSTALLATION

EVERY 48" OF THE SPACER FLASHING END OF THE BUILDING, APPLY MASSIVE SOLIDIFY ALONG THE ENTIRE SPACER FLASH UP. IF THE JOIST END, APPLY SOLIDIFY APPROXIMATELY 2' ABOVE THE END OF THE SPACER FLASH AND TO THE END FLASHING UP. THE SOLIDIFY SHOULD BE APPLIED AS THE ROOF PAIN IS BEING PERFORMED TO AVOID CORROSION.

HOOK THE PANEL OVER THE SPACER FLASHING AND LAY IT INTO POSITION. CLAMP IT DOWNWARD AT THE END FOR SEALING AROUND THE END FLASHING UP. INSTALL 2x4S 1" MIN. CLEARANCE FROM THE END FLASHING UP TO THE END FLASHING UP. THE CLEARANCE SHALL BE MAINTAINED THROUGHOUT THE ENTIRE LENGTH OF THE FLASHING UP AND TO THE END FLASHING UP.

NOTE: KEEP ALL MEMBERS ON THE DIPS AND FLASHING COMPLETELY DRY AND DO NOT USE EXCESSIVE PRESSURE OR OVERSTRESS THE FLASHING UP OR CAUSE DAMAGE TO THE CP.

CONFORM TO THE MANUFACTURERS' WRITING REGARDING SEALANT TO THE FLASHING UP. APPLY SEALANT OF THE SPACER FLASH APPROXIMATELY 2' FROM THE END OF THE FLASHING UP. HOLD THE PANEL OVER THE SPACER FLASH AND LAY THE PANEL INTO POSITION. KEEP THE SPACER FLASH BUTTER TIGHTLY DOWNWARD TO AVOID CORROSION. APPLY PANEL AND SECURE WITH POSSIBLY OF GAPS OCCURRING AT THE JOINT OR INTERSECTIONS OF THE ROOF COVER.

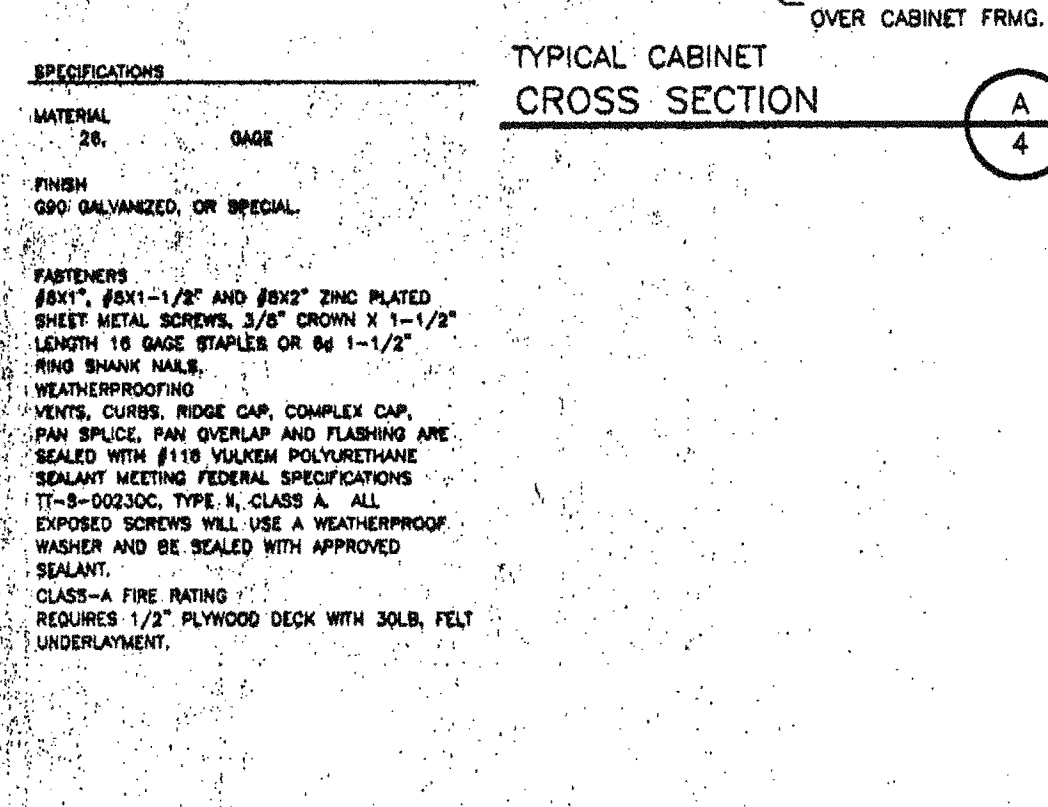
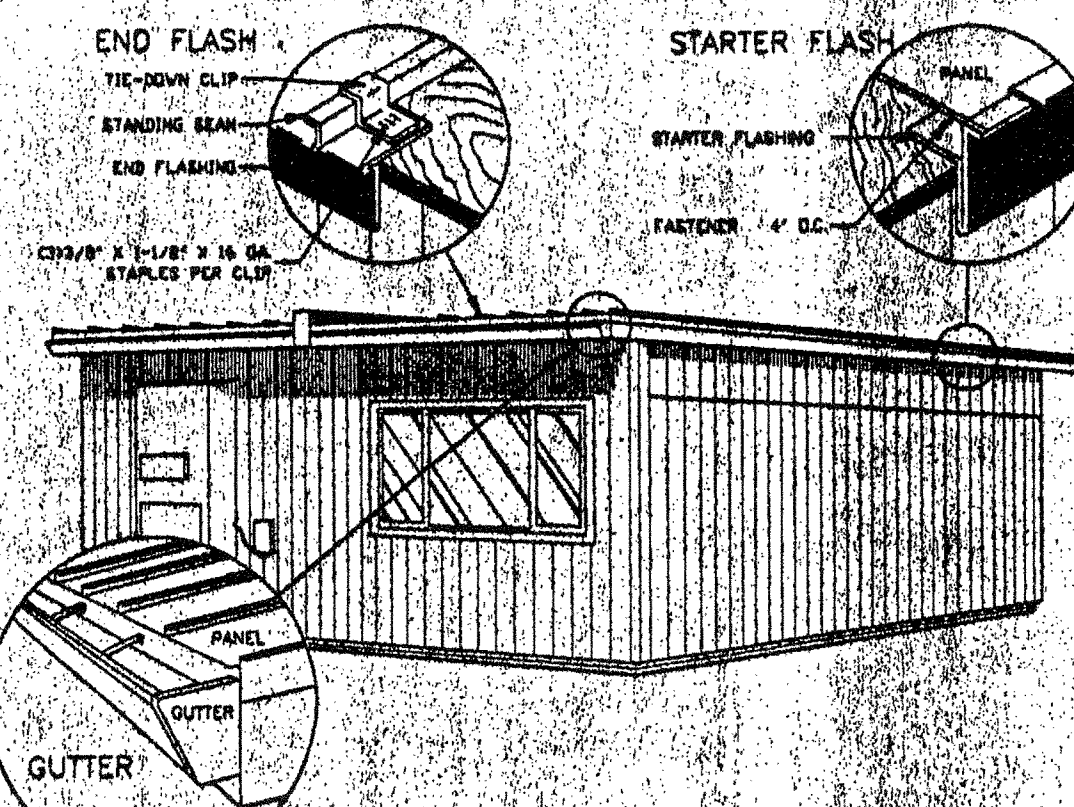
MECHANICALLY CRIMP EACH SPACER FLASH ENDS. MECHANICALLY CRIMP PANEL OVER ALL FLASHING ENDS. OVER THE PANEL TO THE SPACER FLASH. ALLOWING AT FOR FLASHING OVERLAP AND MINIMUM OVERLAP. CRIMP FLASHING ALONG THE FLASHING UP AND OF THE PANEL INTO PLACE. TYP. THE PANEL OVER THE FLASHING UP AND MECHANICALLY CRIMP.

CLOSURE DETAIL

INSTALL THE SPACER FLASHING ON THE END OF THE BUILDING THAT IS TO BE FLASHED. THE FLASHING UP SHALL BE 1/2" LENGTH OVER THE FLASHING UP. THE FLASHING UP SHALL BE 1/2" LENGTH OVER THE FLASHING UP. THE FLASHING UP SHALL BE 1/2" LENGTH OVER THE FLASHING UP. THE FLASHING UP SHALL BE 1/2" LENGTH OVER THE FLASHING UP.

INSTALL THE END FLASHING ALONG THE OPPOSITE END OF THE BUILDING (OR LEAVING ENDS) WHERE THE CORNER AROUND THE CORNER APPROXIMATELY 2' FROM THE END OF THE FLASHING UP. THE FLASHING UP SHALL BE 1/2" LENGTH OVER THE FLASHING UP. THE FLASHING UP SHALL BE 1/2" LENGTH OVER THE FLASHING UP. THE FLASHING UP SHALL BE 1/2" LENGTH OVER THE FLASHING UP.

REQUIRE A MINIMUM OF 30 GA. STEEL ROOF PANELS WITH 18 GA. STEEL ROOF CLIPS AT 12" O.C. SECURED TO THE ROOF JOIST WITH THREE 1/2" CROWN BY 1 1/2" LENGTH 18 GA. STAPLES PER O.C.



RECOMMENDED DIMENSION FOR ACCESSIBILITY IN TOILET FACILITIES FOR CHILDREN

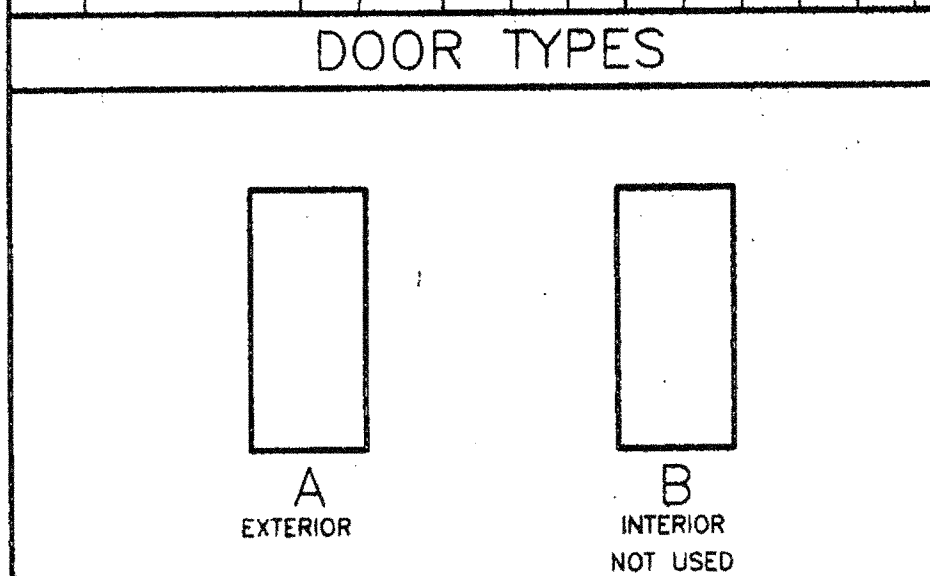
FIXTURE TYPE	ADULT (AGE 12 AND OVER) DIMENSION	ELEMENTARY DIMENSION	HINDERGARTEN & PRE-SCHOOL DIMENSION
TOILET CENTERLINE FROM WALL	18"	18"	12"
TOILET SEAT HEIGHT (TO TOP OF SEAT)	17"-19"	15"	10"-12"
GRAB BAR HEIGHT	33"	33"	10" ABOVE SEAT *
TOILET PAPER IN FRONT OF TOILET	15" MAX.	15" MAX.	8" MAX. **
WAPIN DISPENSER IN FRONT OF TOILET	15" MAX.	N/A	N/A
DISPENSER OR MIRROR HEIGHT	40" MAX.	38" MAX.	32" MAX.
LAVATORY/SINK TOP HEIGHT	34" MAX.	28" MAX.	24" MAX.
LAVATORY/SINK KNEE CLEARANCE	28" MAX.	24" MAX.	22" MIN.
URINAL LP HEIGHT	17" MAX.	15" MAX.	10" MAX.
URINAL FLUSH HANDLE HEIGHT	44" MAX.	38" MAX.	34" MAX.
DRINKING FOUNTAIN NUMBER HEIGHT	38" MAX.	31" MAX.	24" MAX.
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	24" MIN.	22" MIN.
HAND/YEAR HANDRAIL HEIGHT	34"-38"	27"	22"

** = ABOVE SEAT

** = DEVIATES FROM CODE REQUIREMENTS AND REQUIRES A WRITTEN FINDING OF UNREASONABLE HARSHSHIP

DOOR SCHEDULE

DOOR NO.	OPENING SIZE	DOOR TYPE	DOOR		DETAILS		REMARKS
			THK.	MAT'L	SH. 1	SH. 2	
1	3'-0"x6'-8"	A	3/4"	H.M.	H.M.		
2	3'-0"x6'-8"	A	3/4"	H.M.	H.M.		



FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	WALLS				MISC.	CLS. HT.	REMARKS
			BASE	NORTH	EAST	SOUTH			
01	CLASSROOM	F2	B1	W1	W1	W1	C1	N/A	B-6 N/A
02	OPTIONAL RESTROOM	F3	B1	W2	W2	W2	C1	N/A	B-6 N/A

FINISHES

FLOOR FINISHES

F1 VINYL COMPOSITION TILE

F2 CARPETING

F3 SHEET VINYL

BASE FINISHES

B1 RUBBER COVE BASE

WALL FINISHES

W1 1/2" VINYL WAREHOUSE SOUND BOARD OVER 1/2" GYPSUM BD.

W2 1/2" MARBLE OVER 1/2" GYPSUM BOARD

CEILING FINISHES

C1 SUSPENDED LAY-IN ACOUSTIC TILE

MISCELLANEOUS FINISHES

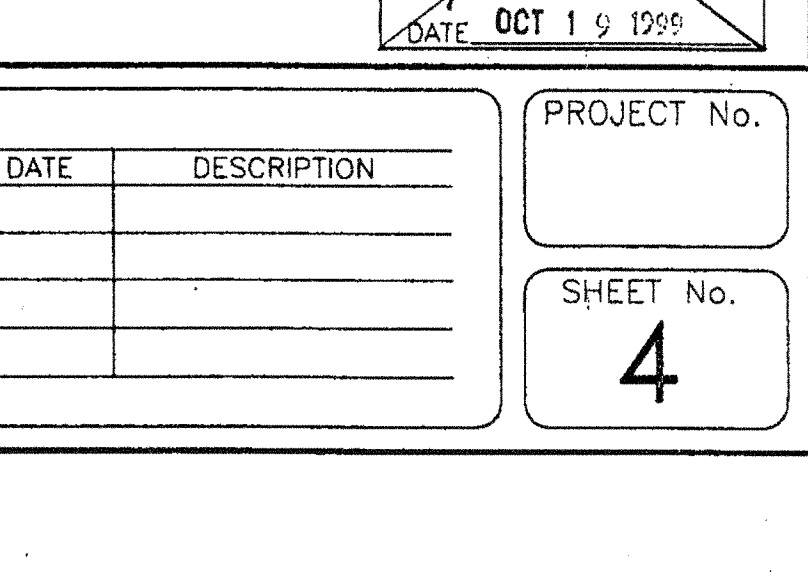
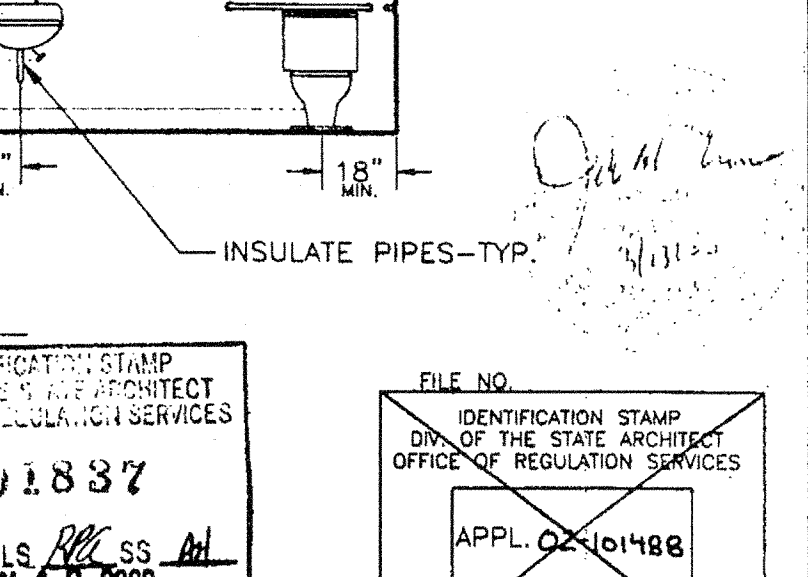
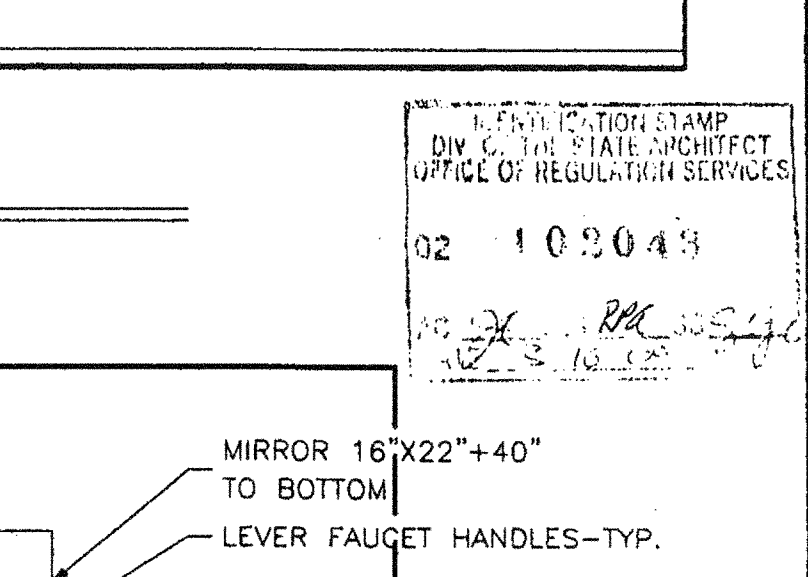
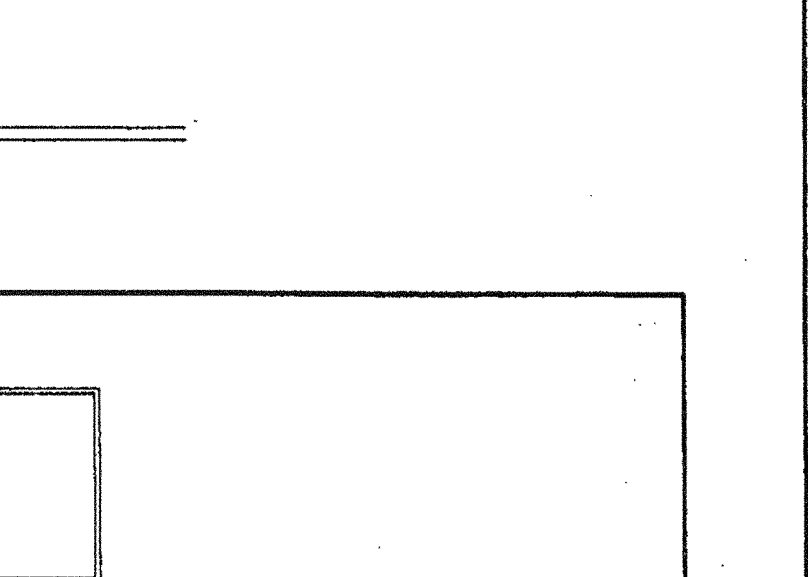
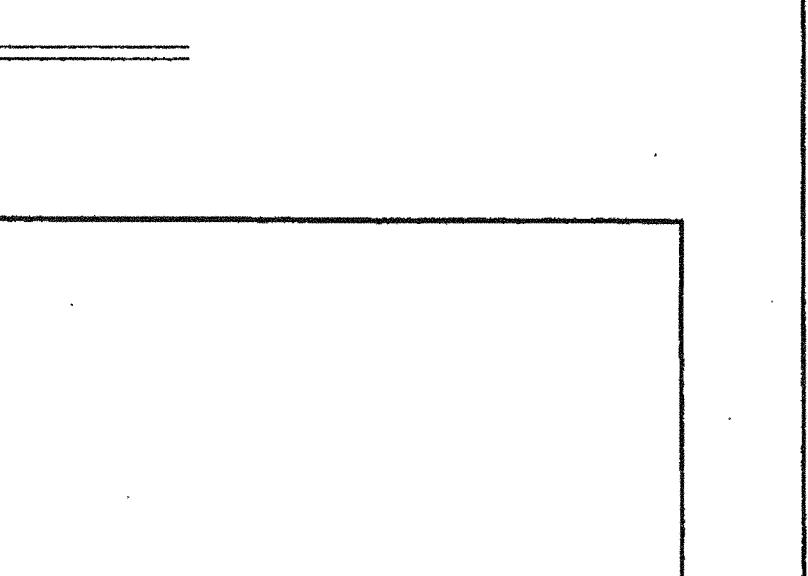
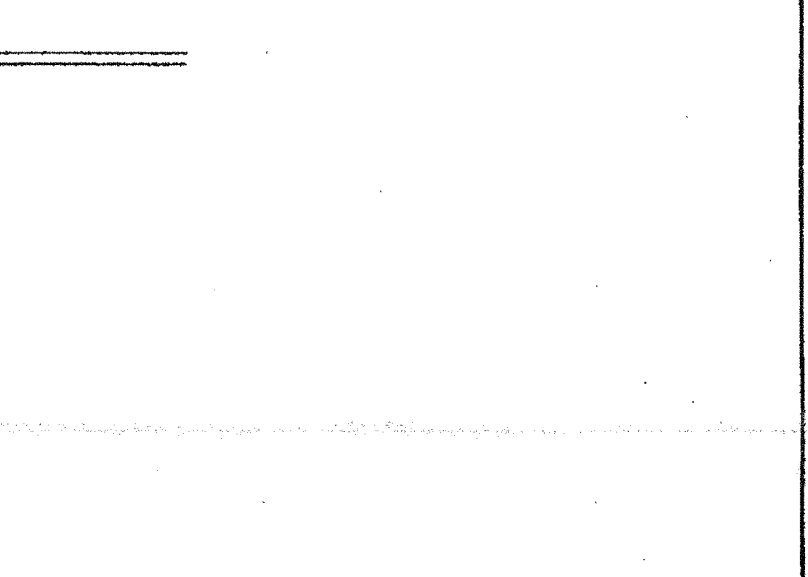
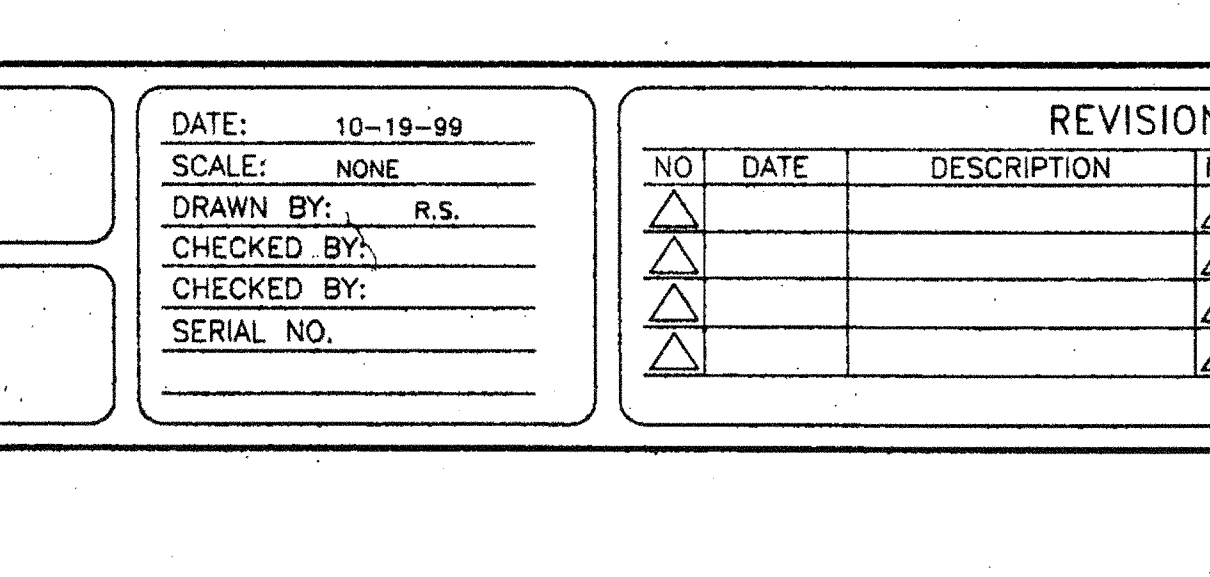
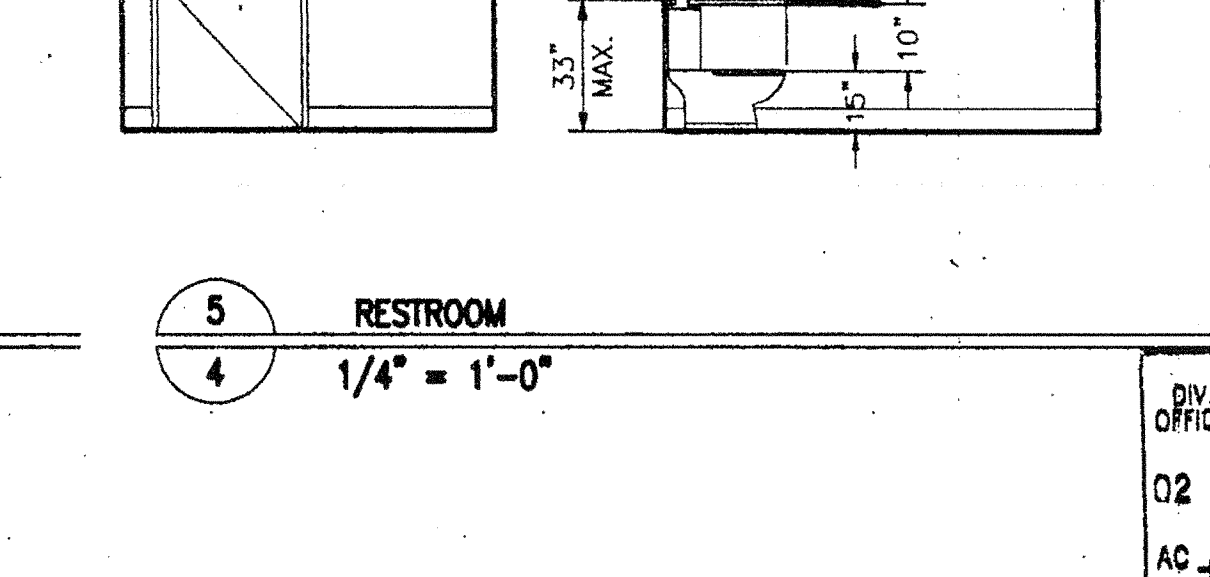
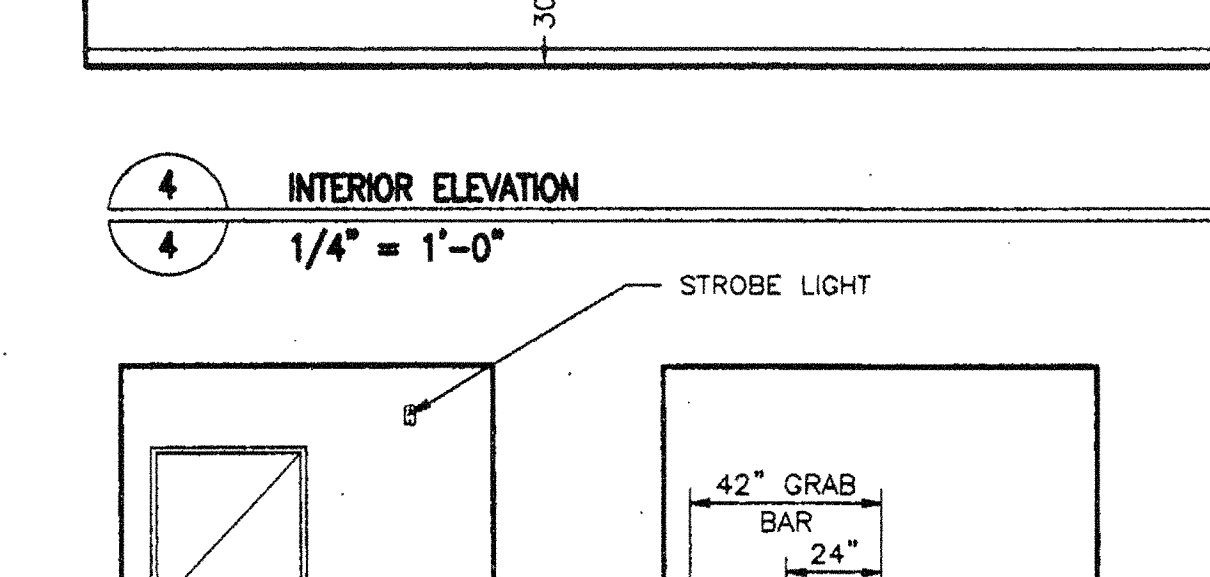
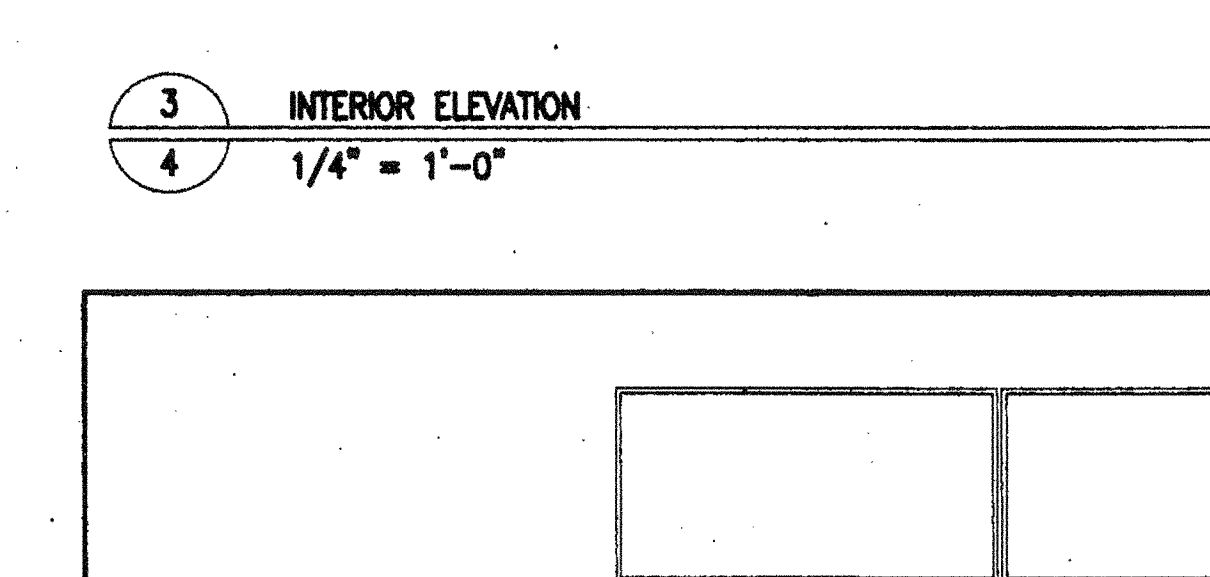
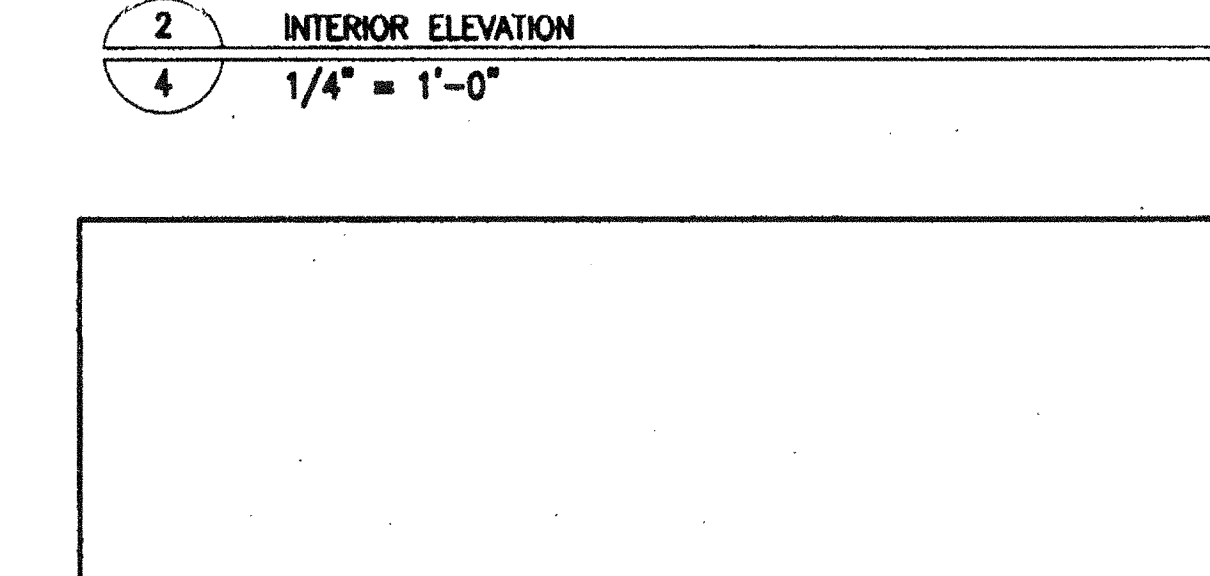
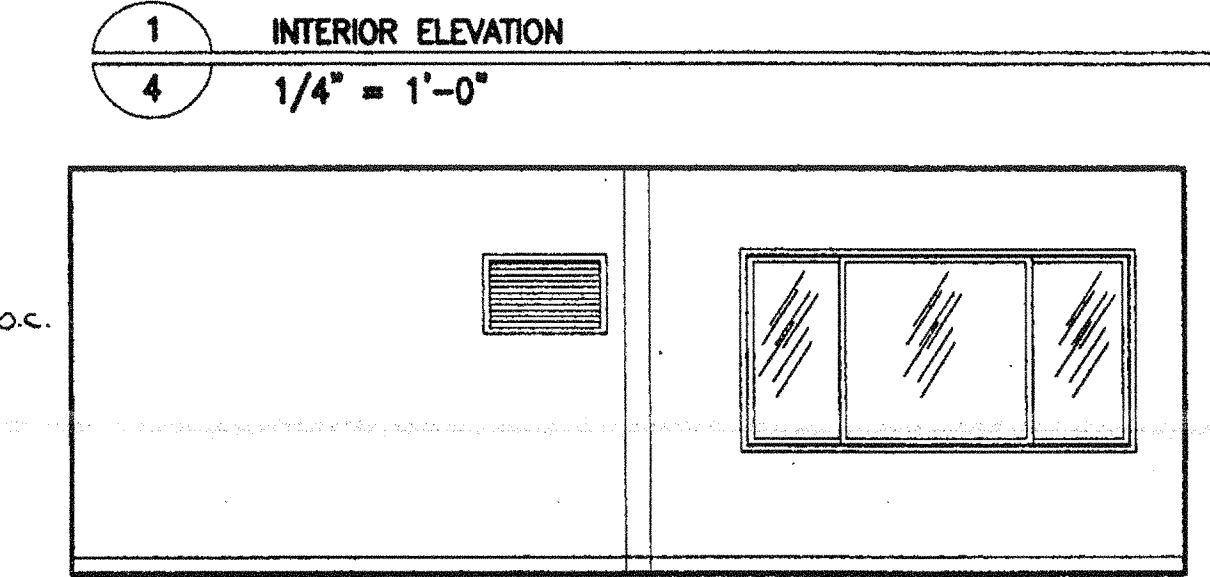
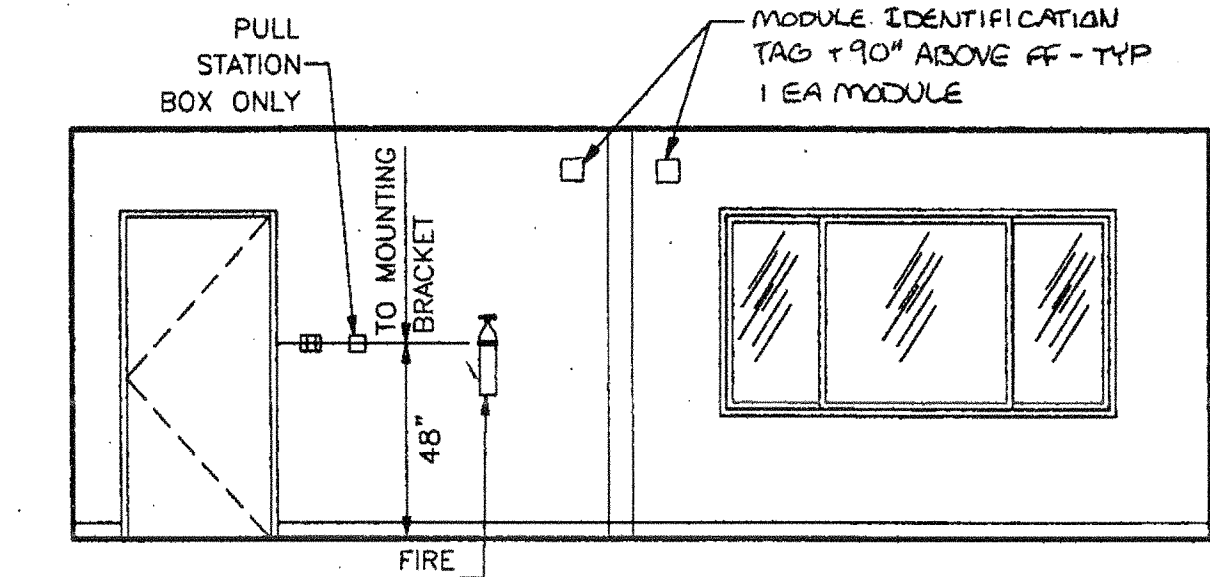
DISABLED ACCESSIBLE CABINET

NOTES:

DOORS NOT SHOWN FOR CLARITY. DOORS ARE TO BE PROVIDED.

MODIFY BASE AS SHOWN FOR WHEELCHAIR ACCESS.

ALL EXTERIOR SURFACES TO BE PLASTIC LAMINATE.



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ACS FLS SS D.M.

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OFFICE OF REGULATION SERVICES

02 100049

APPL 02-101488

ACS FLS SS

DATE JAN 12 2000

IDENTIFICATION STAMP

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OFFICE OF REGULATION SERVICES

02 101837

ACS FLS SS

DATE JAN 12 2000

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OFFICE OF REGULATION SERVICES

APPL 02-101488

ACS FLS SS

DATE OCT 19 1200

24 X 40 PC RELOCATABLE CLASSROOM

American Modular Systems

CUSTOMER:

INTERIOR ELEVATIONS AND OPTIONS

DATE: 10-19-99

SCALE: NONE

DRAWN BY: R.S.

CHECKED BY:

SERIAL NO.

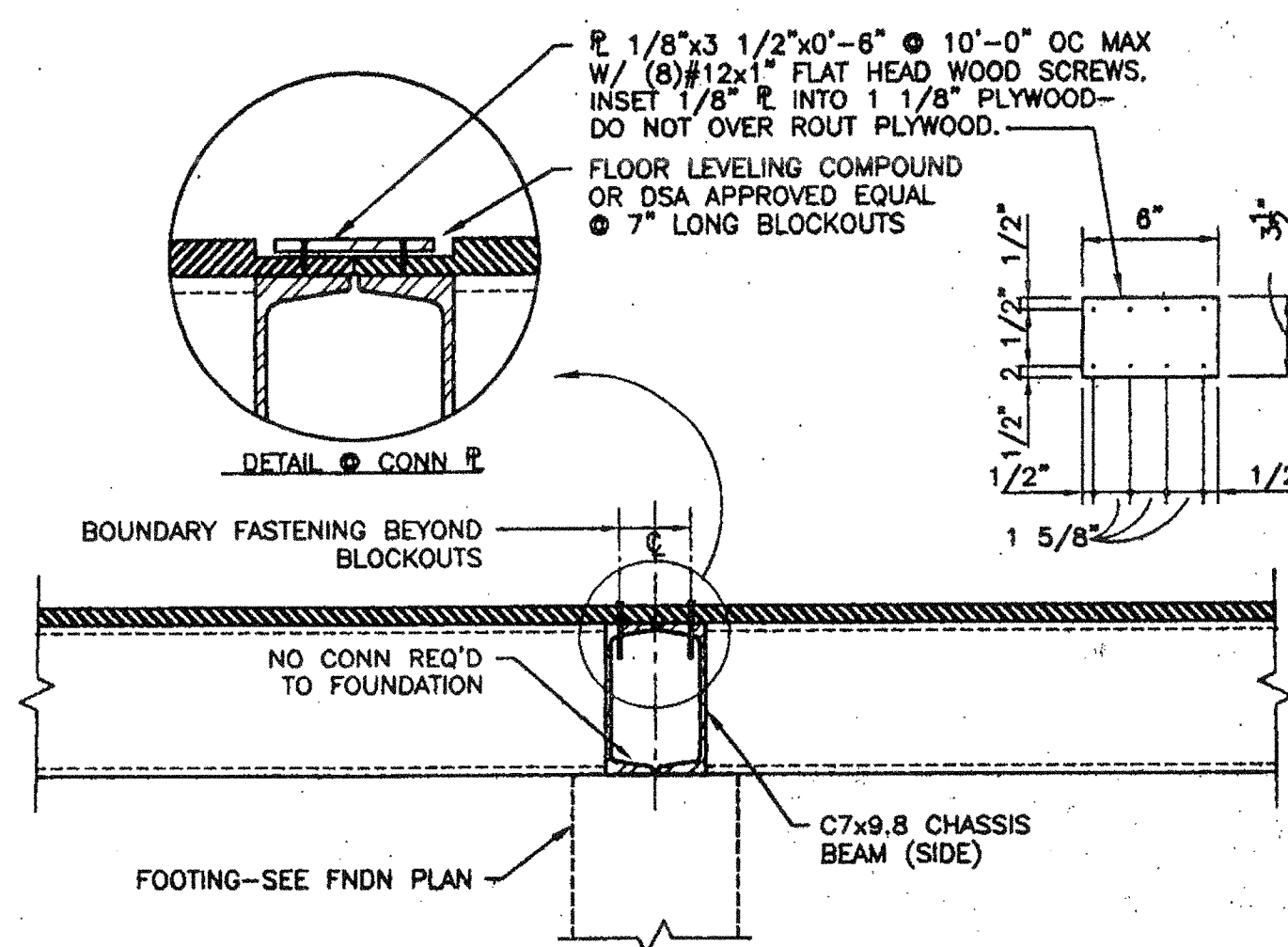
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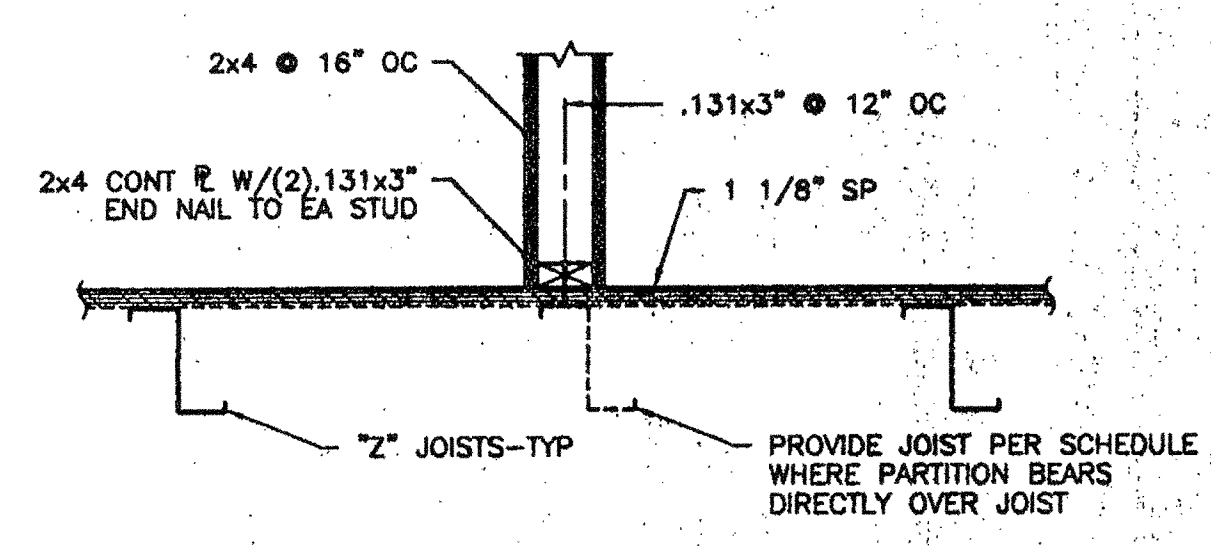
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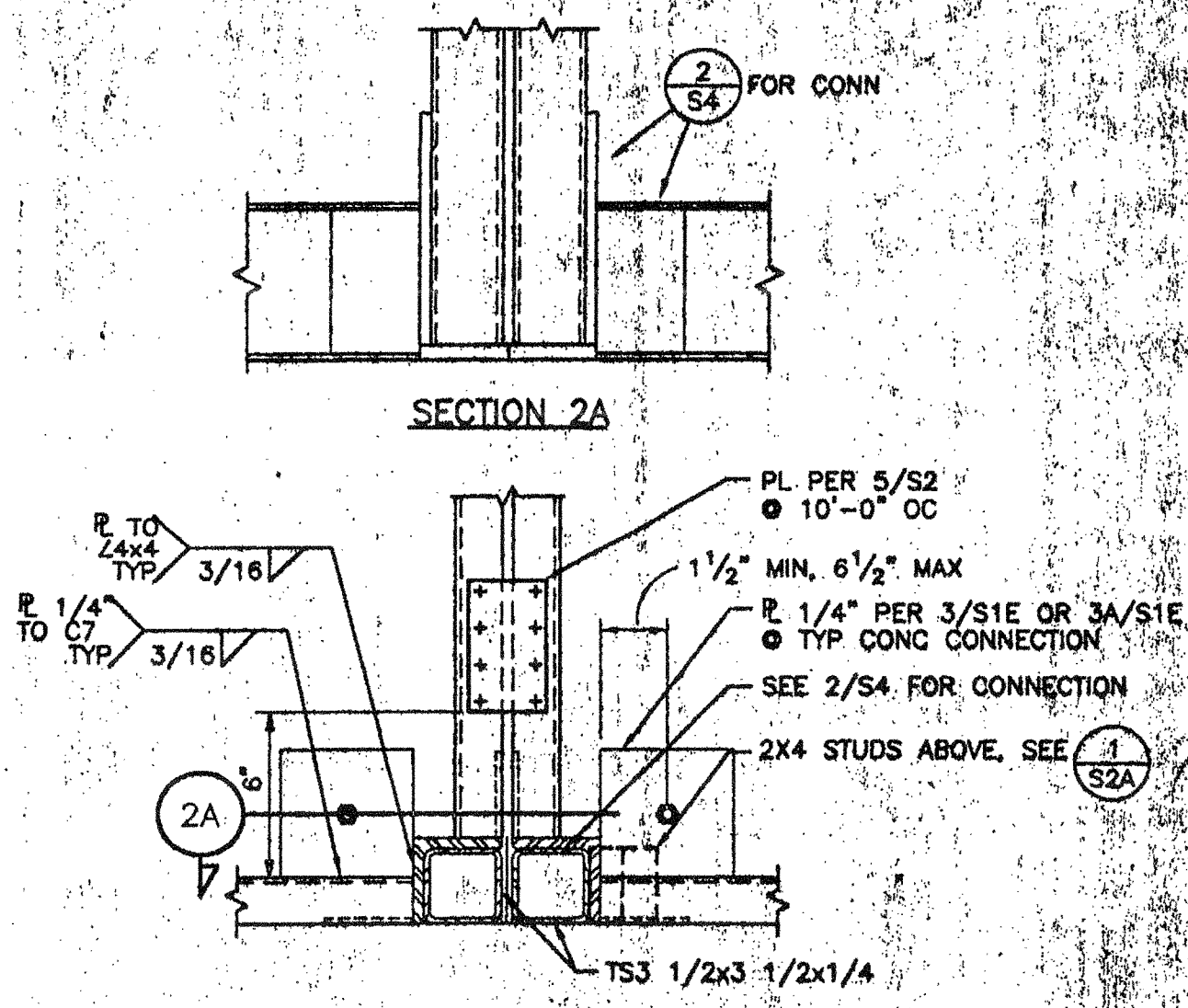
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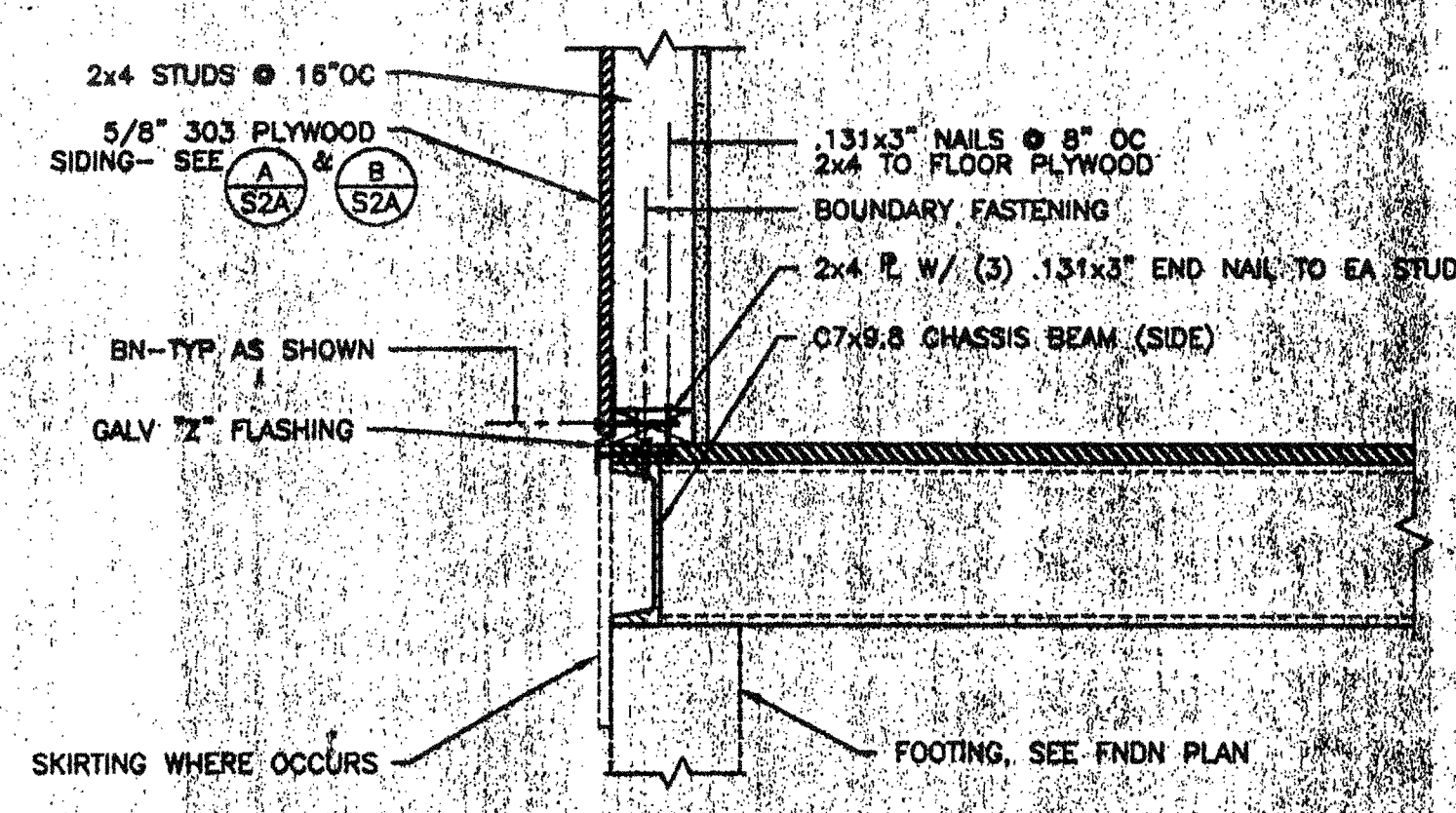
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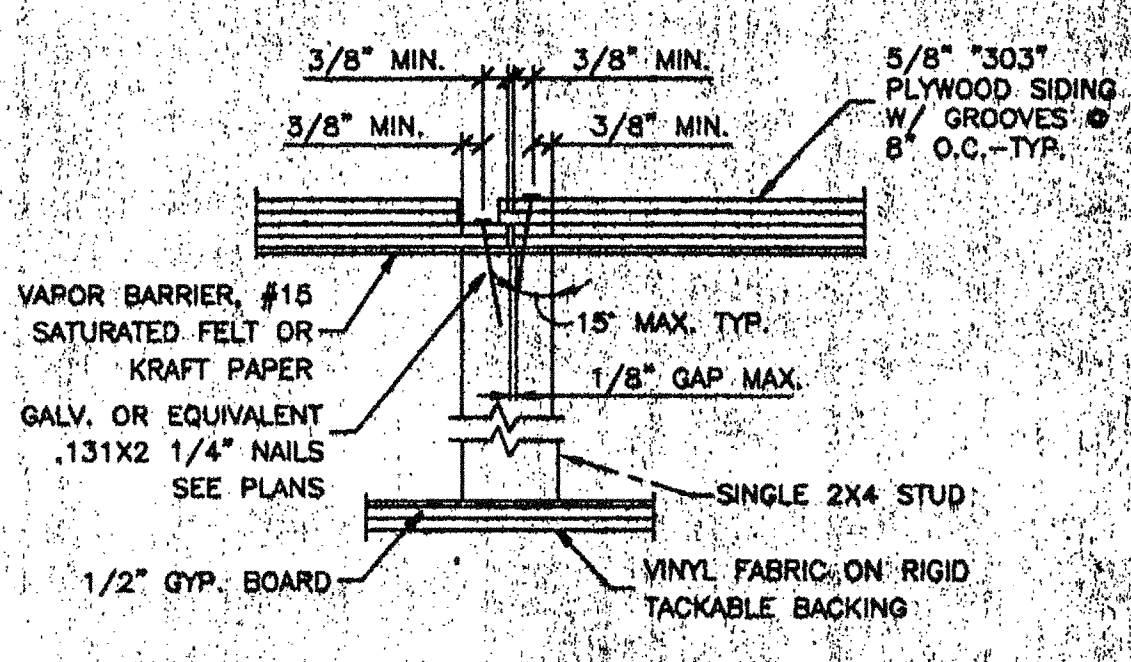
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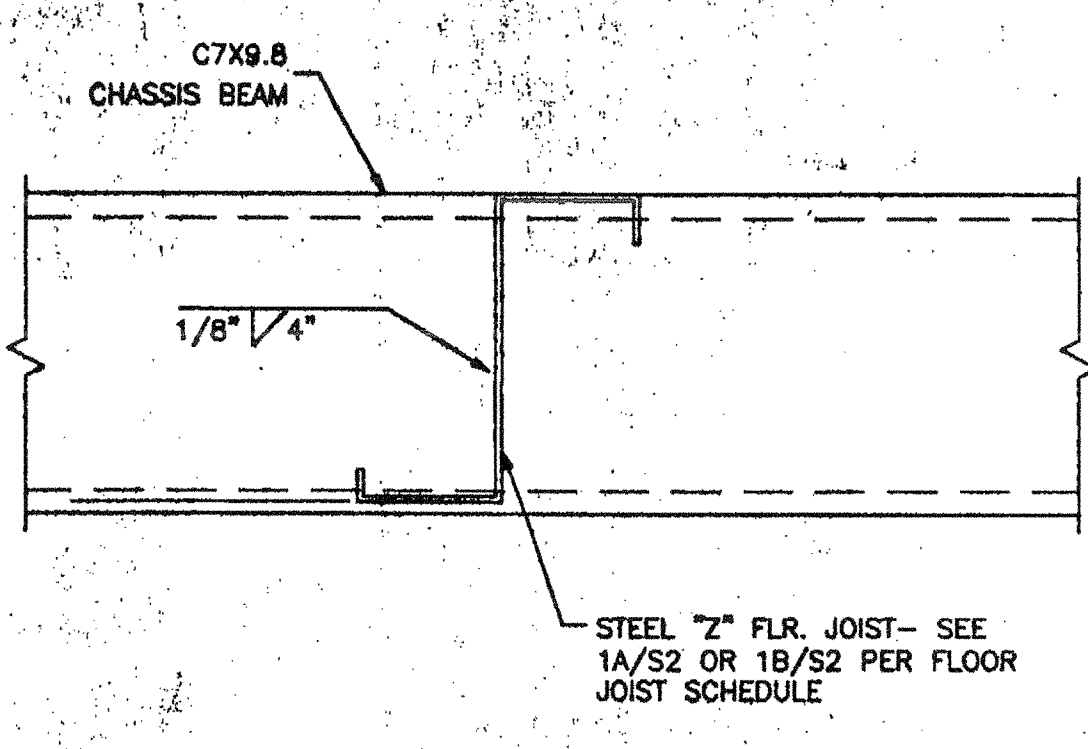
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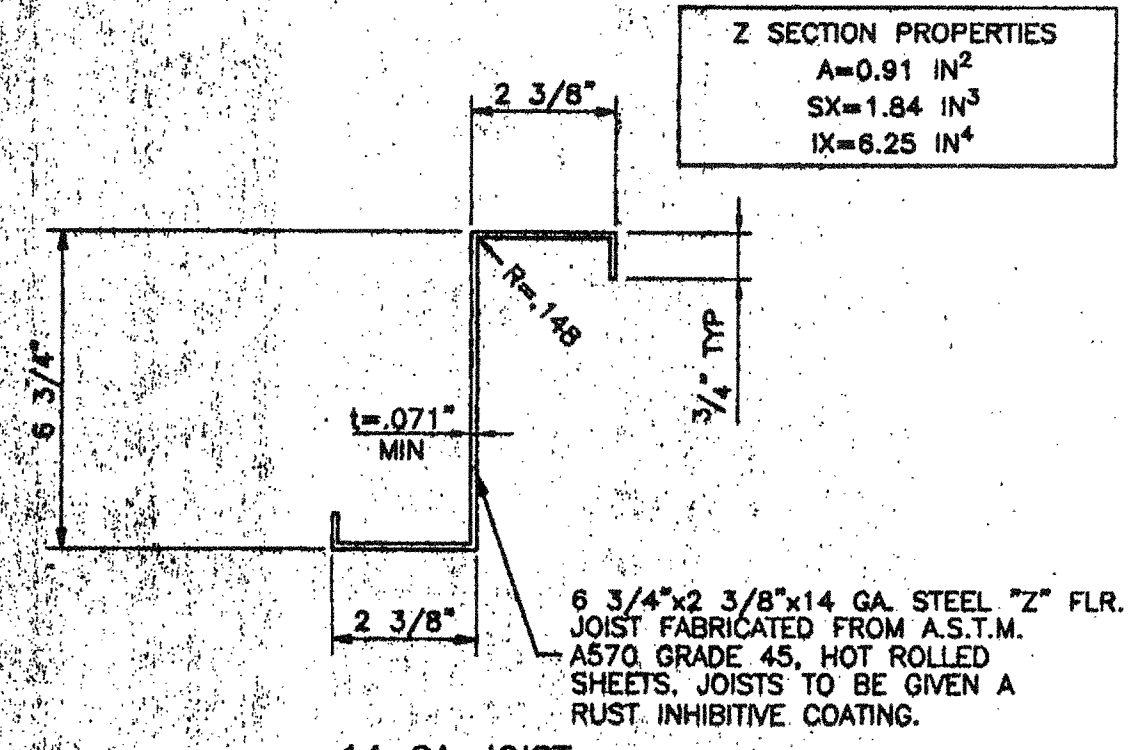
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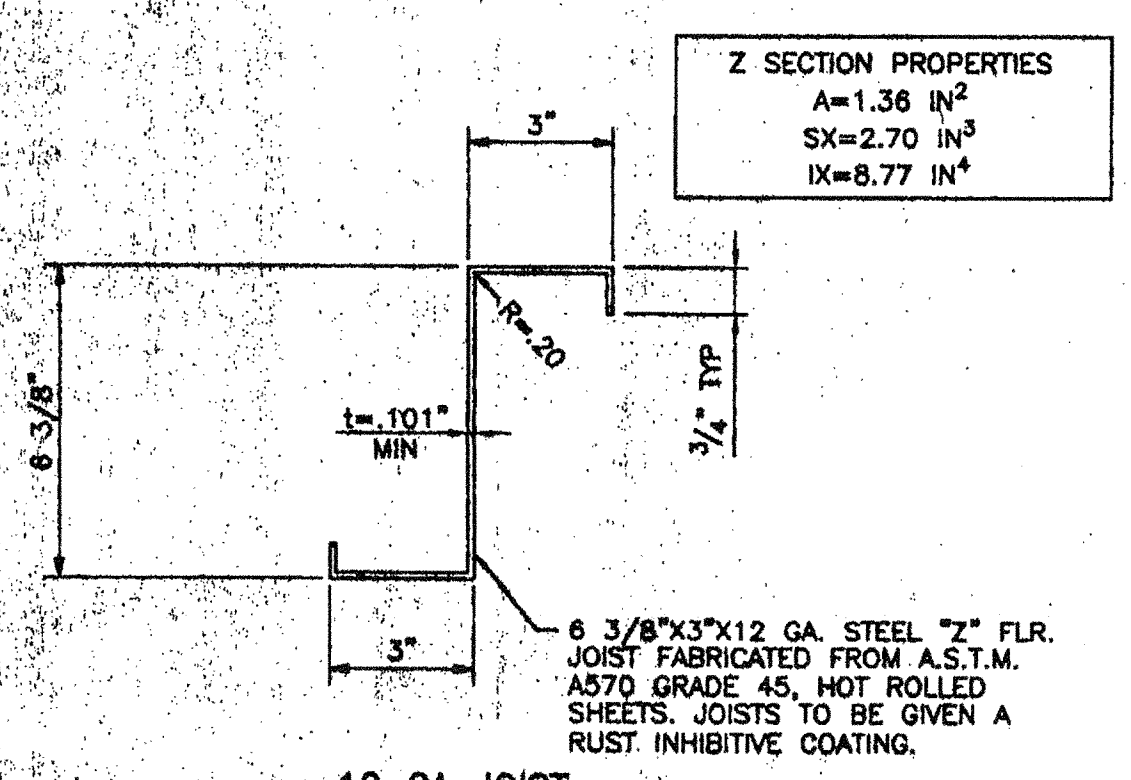
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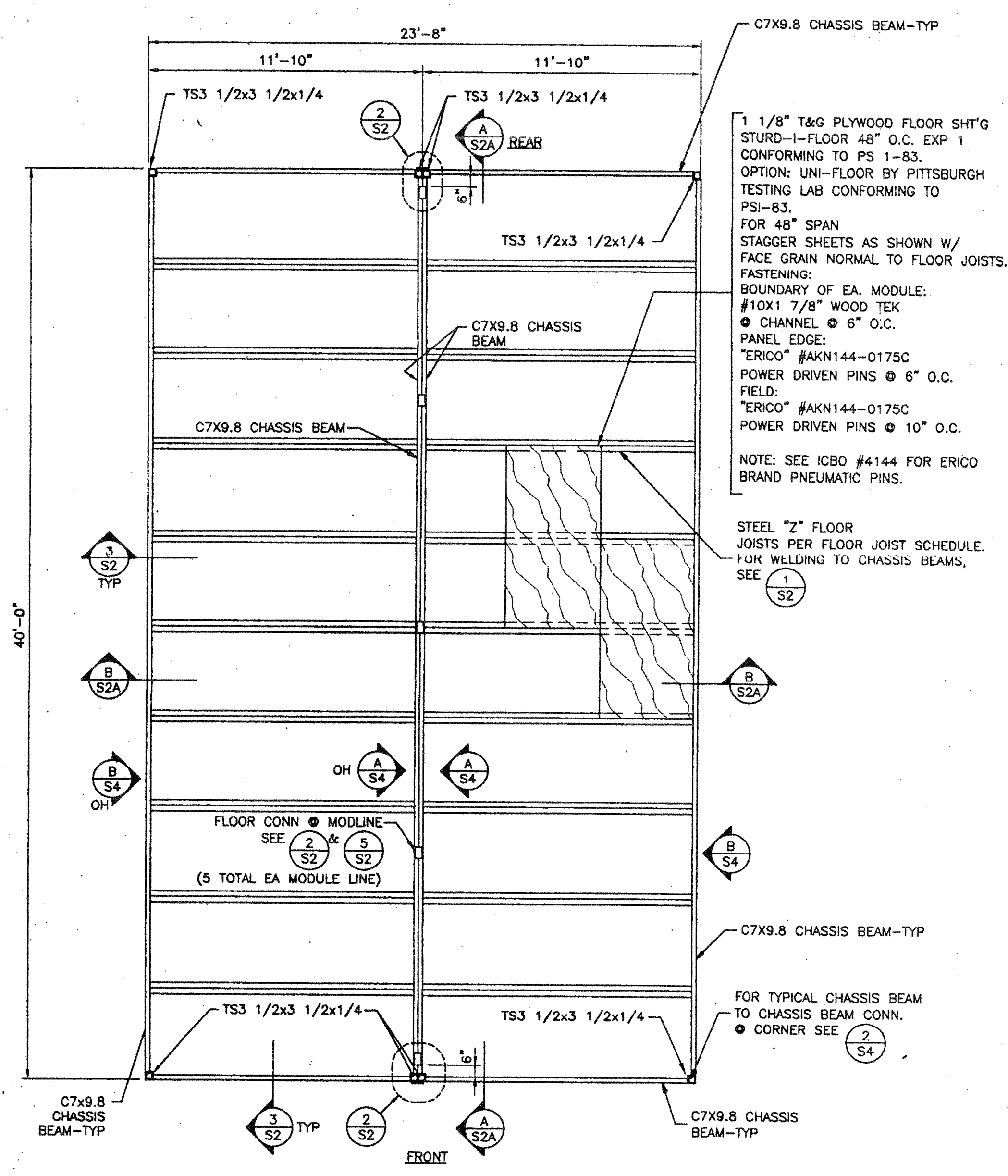
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NO SCALE



DETAIL 1A
NO SCALE



DETAIL 1B
NO SCALE



FLOOR FRAMING PLAN
1/4" = 1'-0"

LIVE LOAD	SPACING	
	14 GA JOIST	12 GA JOIST
50 PSF	48" OC	48" OC
100 PSF	24" OC	24" OC
125 PSF	-	24" OC

NOTES:
1. FOR JOISTS SEE 1A/S2 AND 1B/S2.
2. SPACING IS TO CENTER LINE OF TOP FLANGE.
3. PROVIDE 12 GA JOIST WHERE PARTITION BEARS DIRECTLY OVER JOIST.

1 1/8" T&G PLYWOOD FLOOR SHIT'G STURD-I-FLOOR 48" O.C. EXP 1 CONFORMING TO PS 1-83. OPTION: UNI-FLOOR BY PITTSBURGH TESTING LAB CONFORMING TO PSI-83. FOR 48" SPAN STAGGER SHEETS AS SHOWN W/ FACE GRAIN NORMAL TO FLOOR JOISTS. FASTENING: BOUNDARY OF EA. MODULE: #10X1 7/8" WOOD TEK # CHANNEL @ 6" O.C. PANEL EDGE: "ERICO" #AKN144-0175C POWER DRIVEN PINS @ 6" O.C. FIELD: "ERICO" #AKN144-0175C POWER DRIVEN PINS @ 10" O.C. NOTE: SEE ICBO #4144 FOR ERICO BRAND PNEUMATIC PINS.

STEEL 2" FLOOR JOISTS PER FLOOR JOIST SCHEDULE. FOR WELDING TO CHASSIS BEAMS, SEE 1/S2.

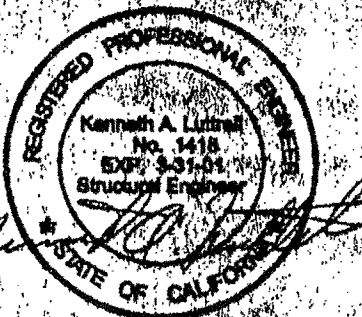
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APPL 01-117316
ACIS: _____ PLS: _____ SSS: _____
DATE: 1/10/18

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OFFICE OF REGULATION SERVICES
10:04

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APPLICATION NO.
02-101 837
AC: _____ PLS: _____ SSS: _____
DATE: JAN 1 2 2000

24 x 40
RELOCATABLE
CLASSROOM

American Modular Systems

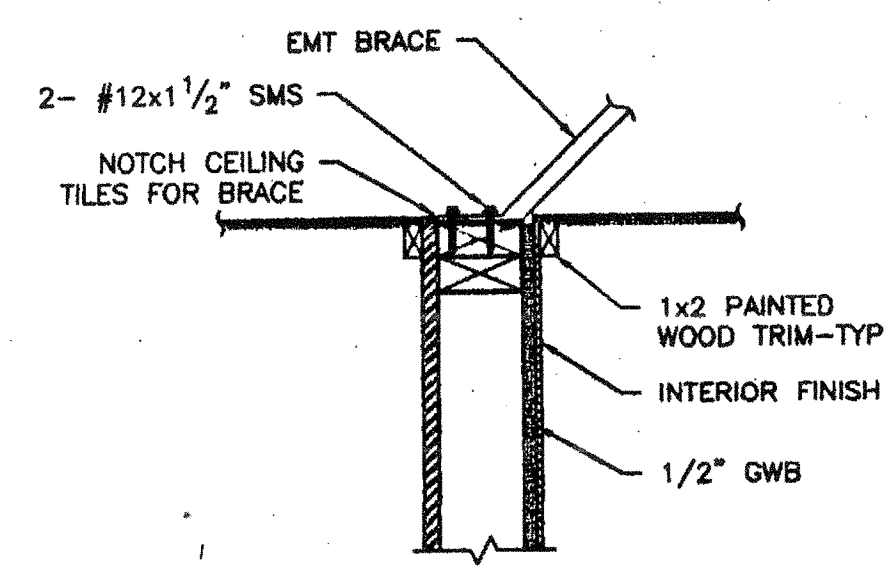


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DESIGNED BY: MDR
CHECKED BY: KAL
SERIAL NO. _____

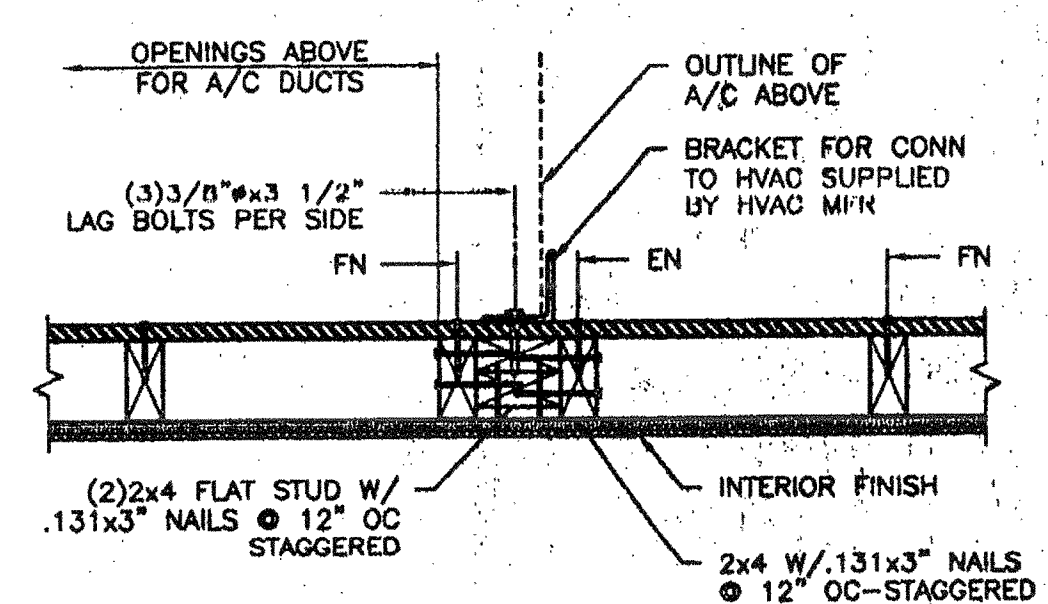
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PROJECT No.
99100
SHEET No.
S2

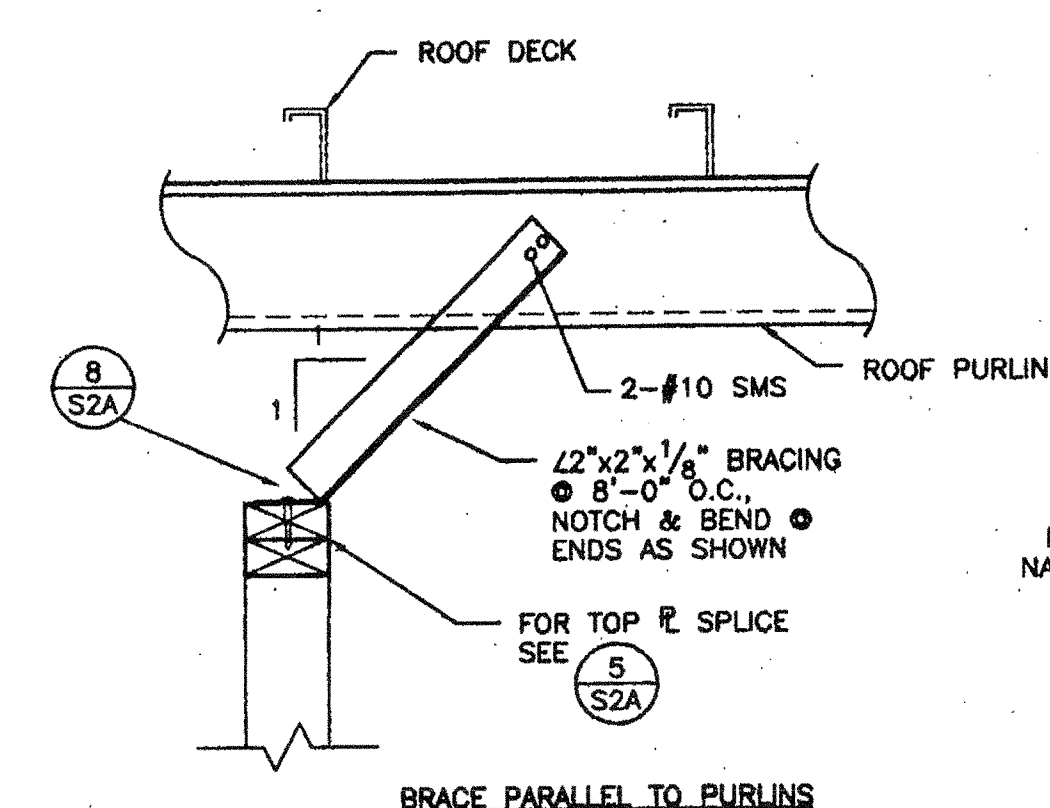
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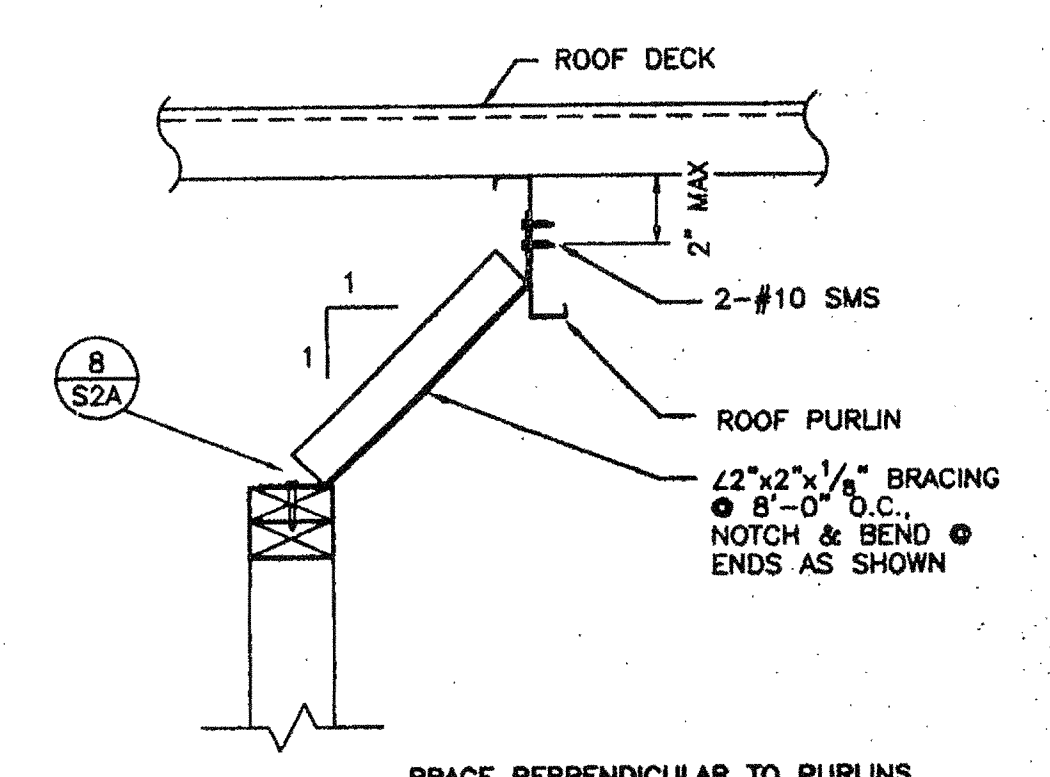
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6 S2A
1 1/2" = 1'-0"



WALL FRAMING PLAN DETAIL
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1 1/2" = 1'-0"

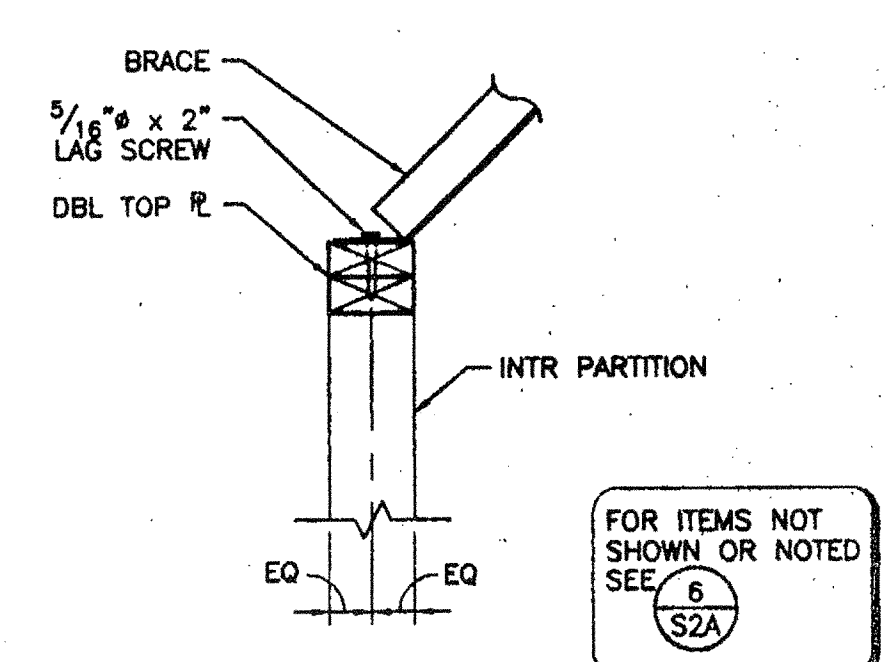


BRACE PARALLEL TO PURLINS
8 S2A

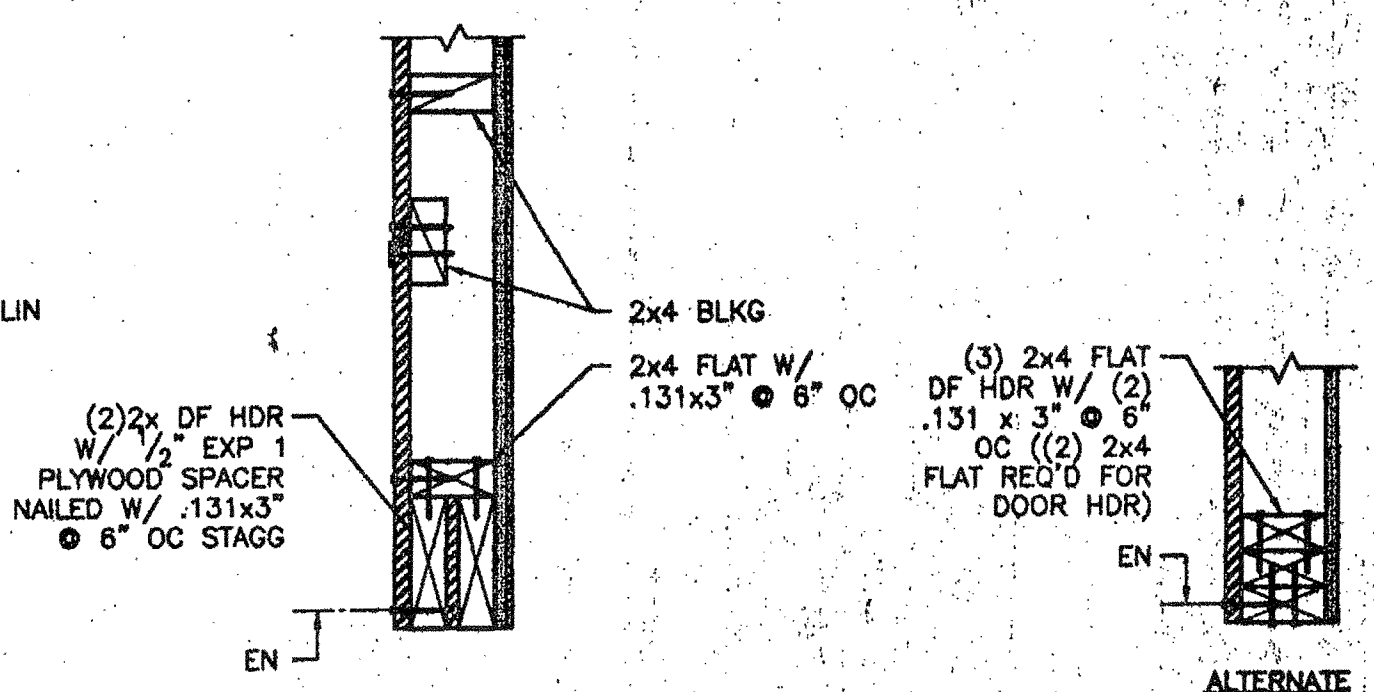


BRACE PERPENDICULAR TO PURLINS
8 S2A

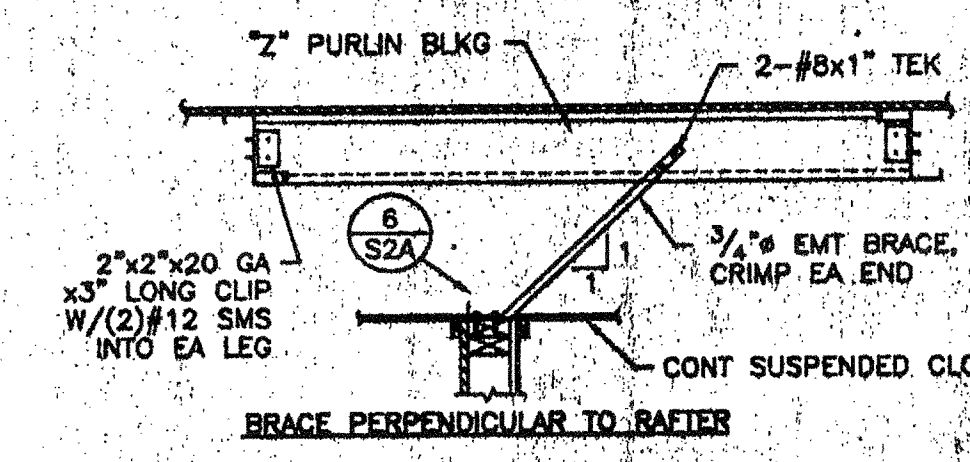
ALT. WALL FRAMING DETAIL
7 S2A
1 1/2" = 1'-0"



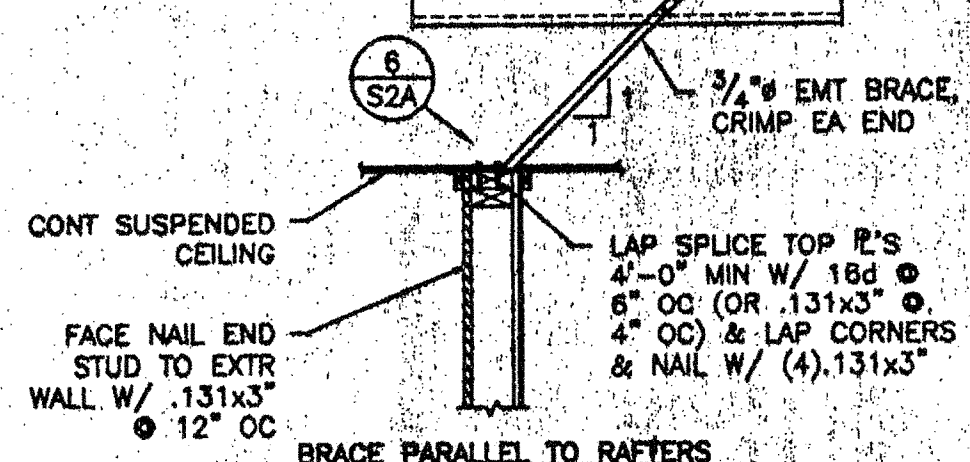
WALL FRAMING DETAIL
8 S2A
1 1/2" = 1'-0"



WALL FRAMING DETAIL
4 S2A
1 1/2" = 1'-0"

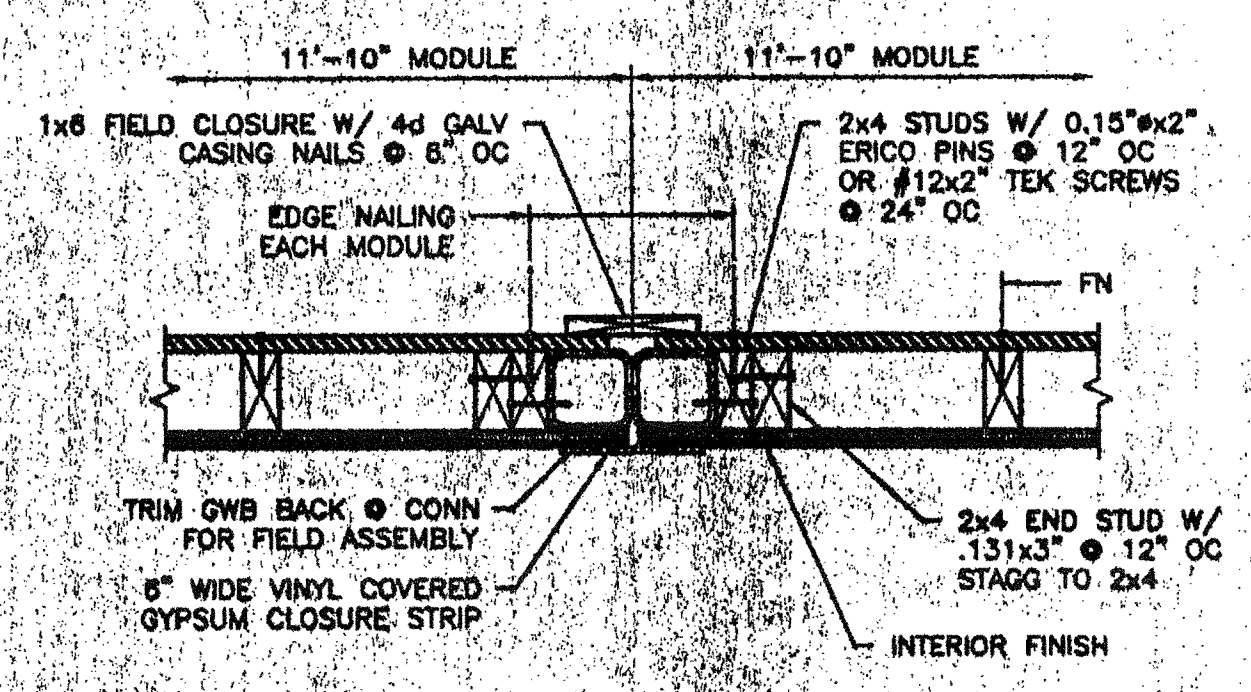


WALL FRAMING DETAIL
5 S2A
NO SCALE

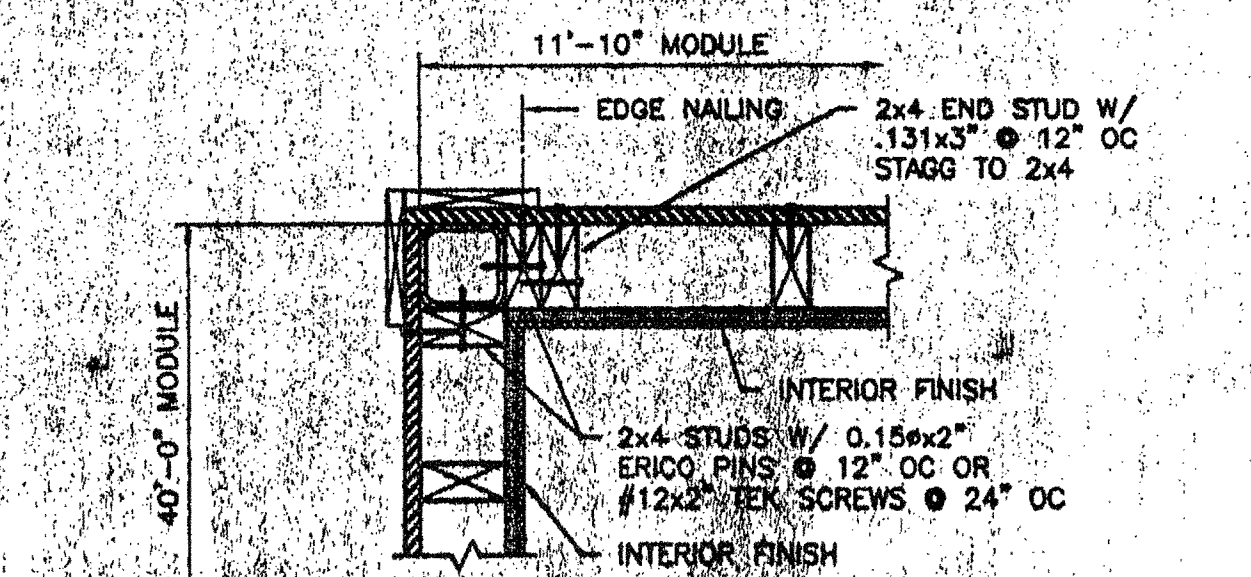


WALL FRAMING DETAIL
9 S2A
NO SCALE

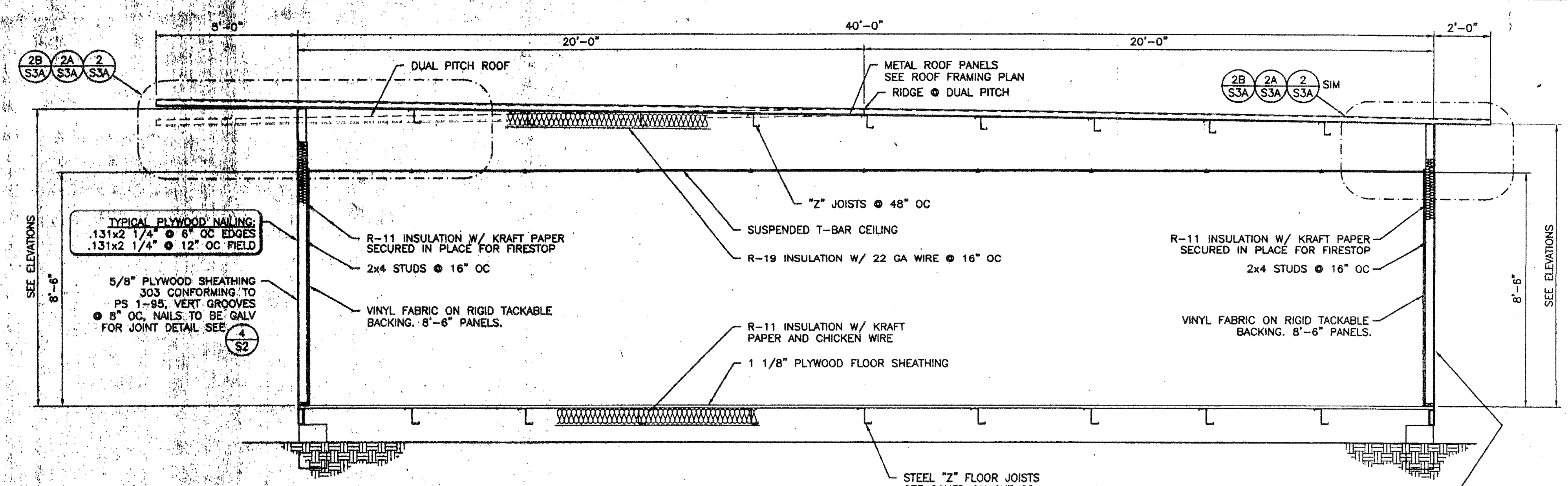
WALL FRAMING DETAIL
5 S2A
NO SCALE



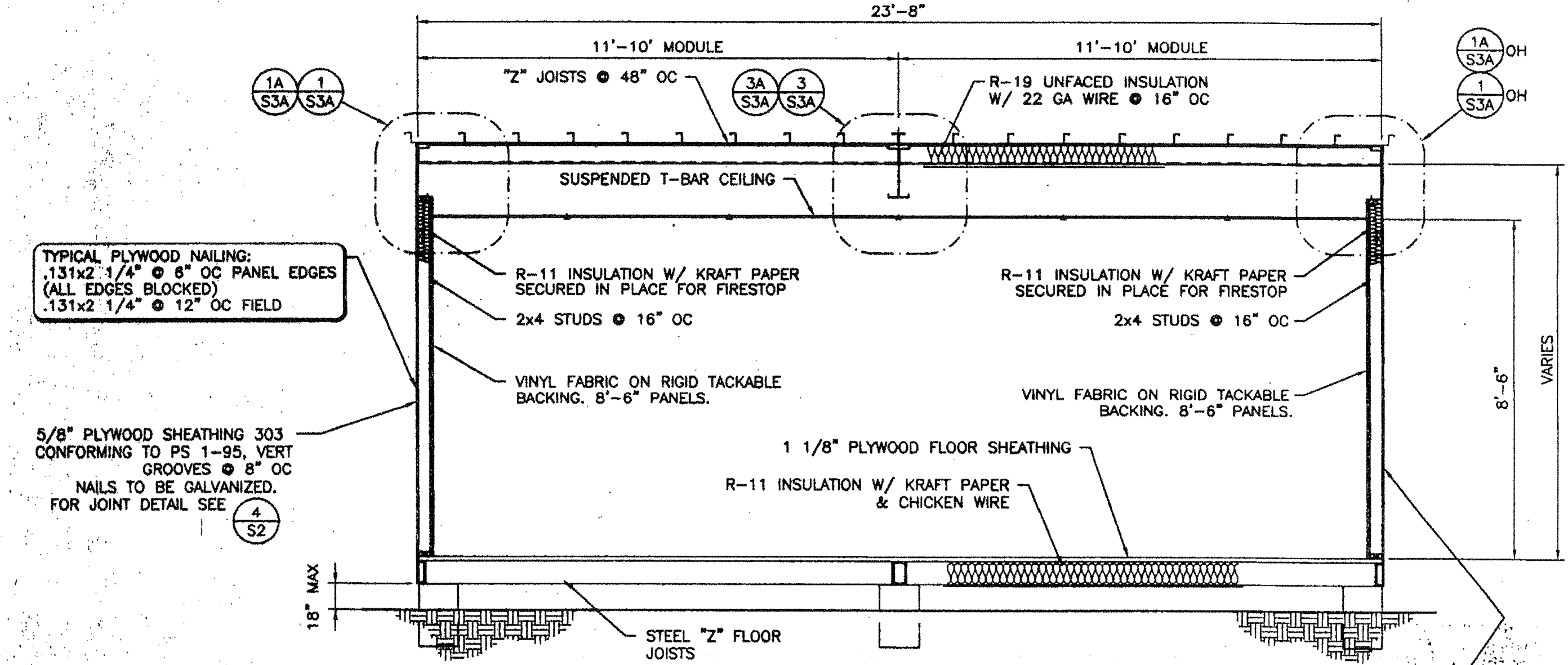
WALL FRAMING PLAN DETAIL
1 S2A
1 1/2" = 1'-0"



WALL FRAMING PLAN DETAIL
2 S2A
1 1/2" = 1'-0"

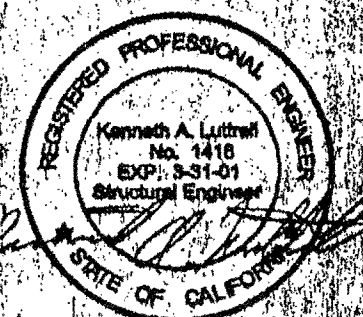


TYPICAL LONGITUDINAL SECTION
A S2A
3/8" = 1'-0"



TYPICAL TRANSVERSE SECTION
B S2A
3/8" = 1'-0"

24 x 40
RELOCATABLE
CLASSROOM



CUSTOMER: _____
BUILDING SECTIONS
AND WALL DETAILS

DATE: 12/27/99
SCALE: AS NOTED
DRAWN BY: PWD
DESIGNED BY: MDR
CHECKED BY: KAL
SERIAL NO. _____

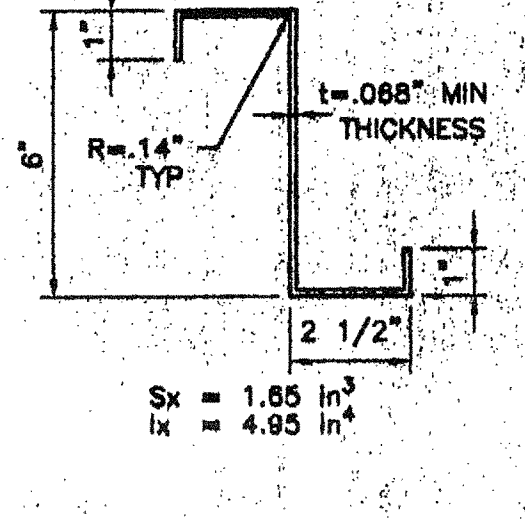
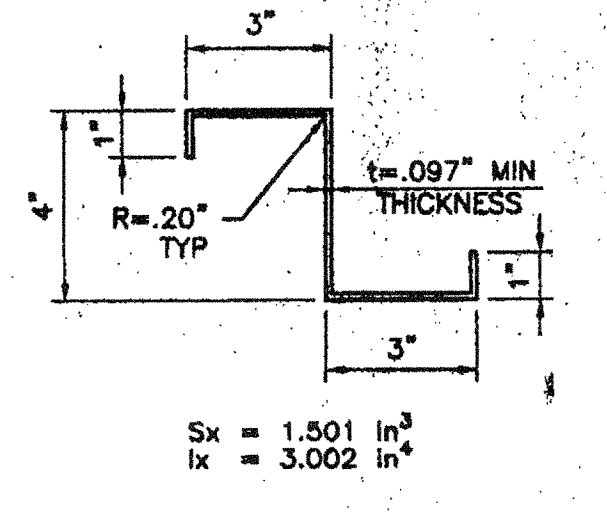
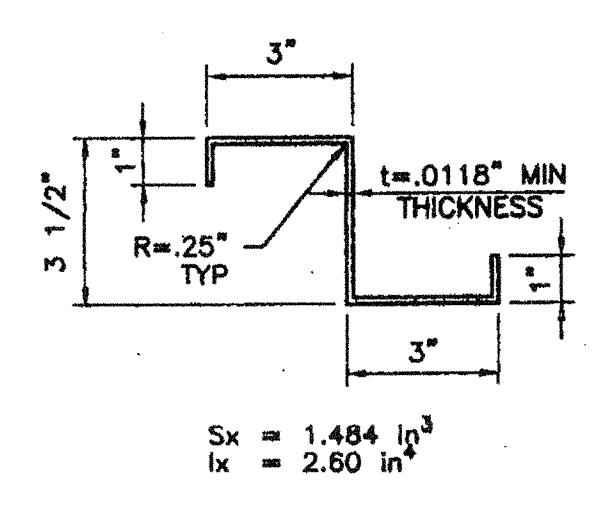
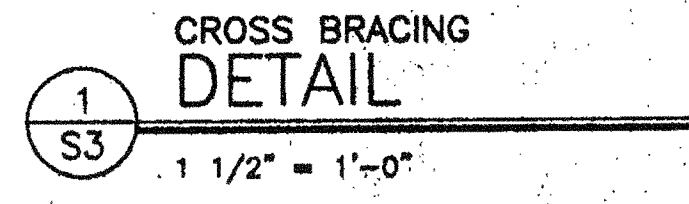
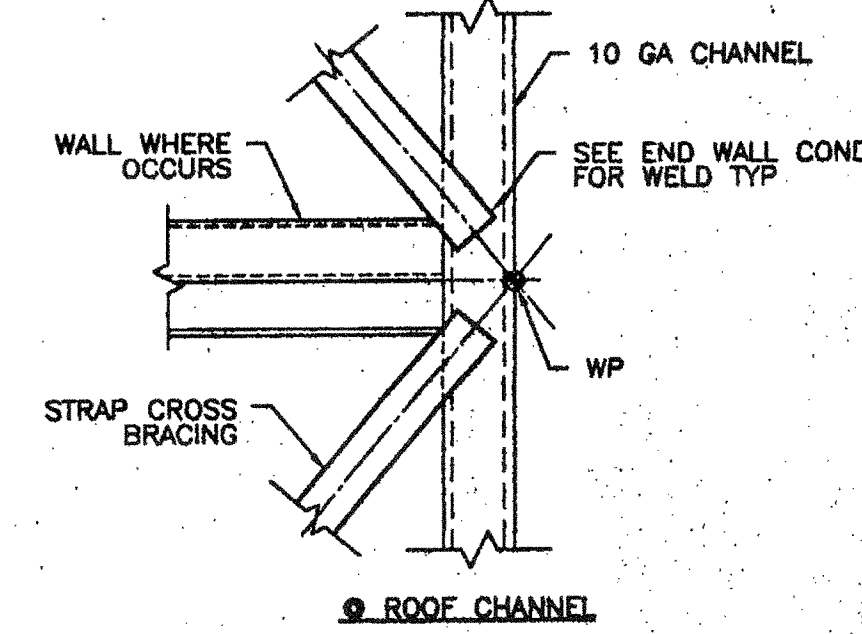
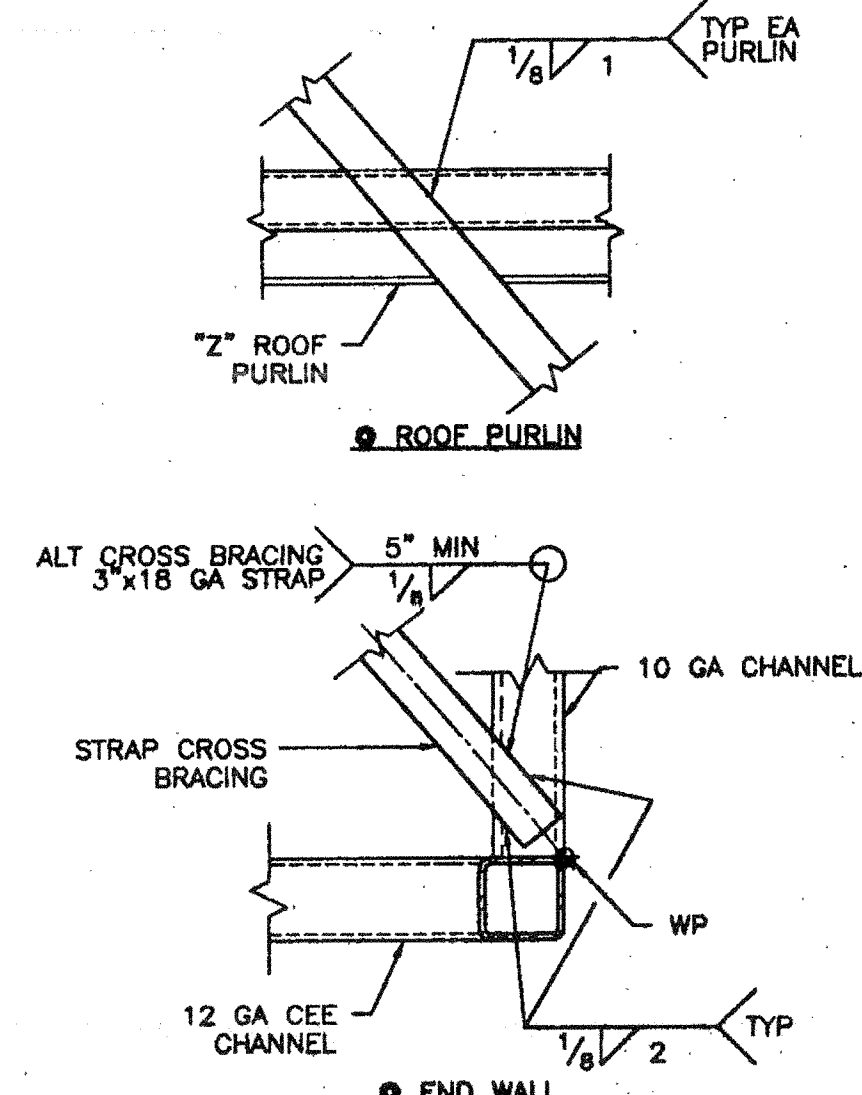
REVISIONS					
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No.
99100
SHEET No.
S2A

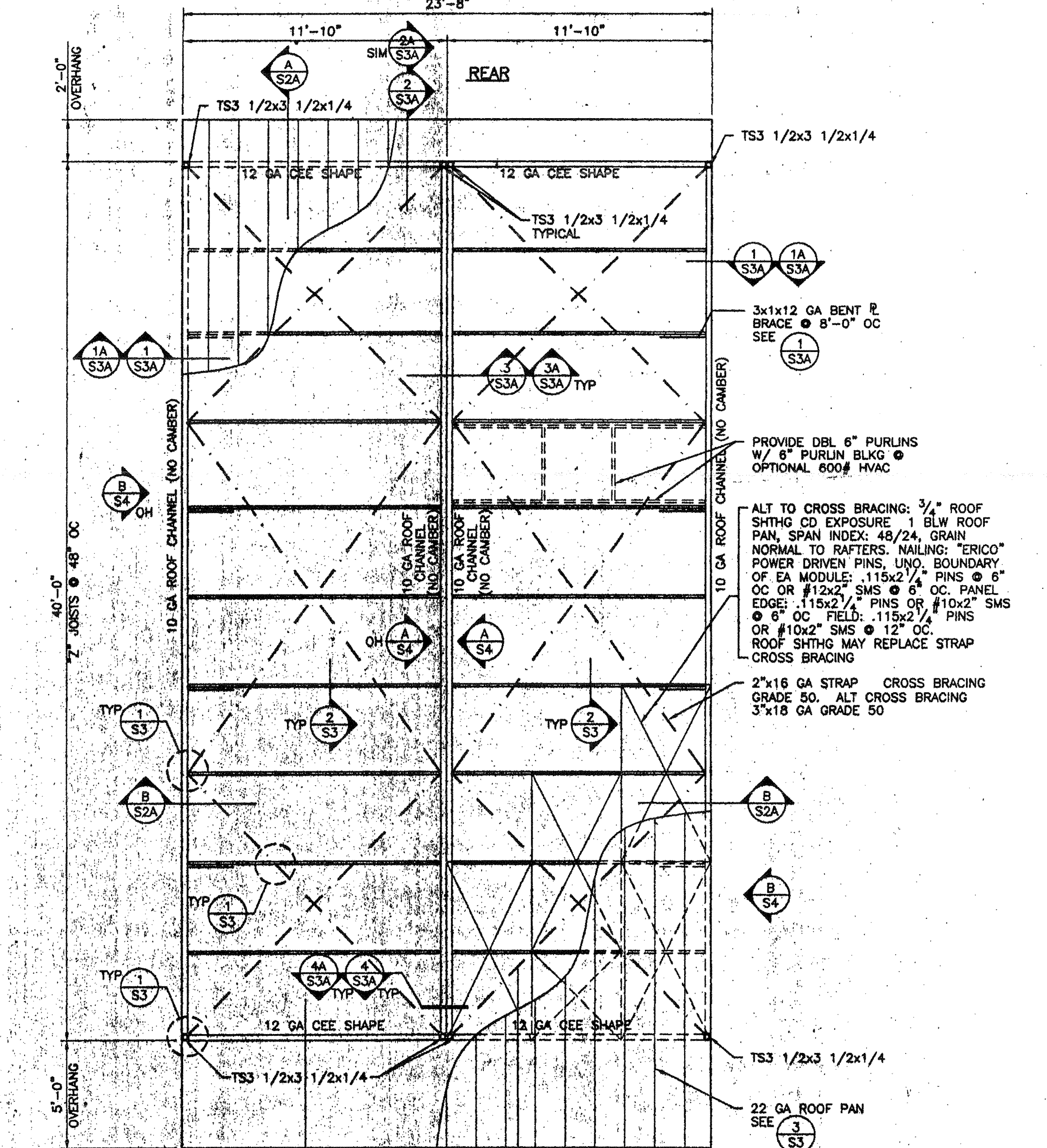
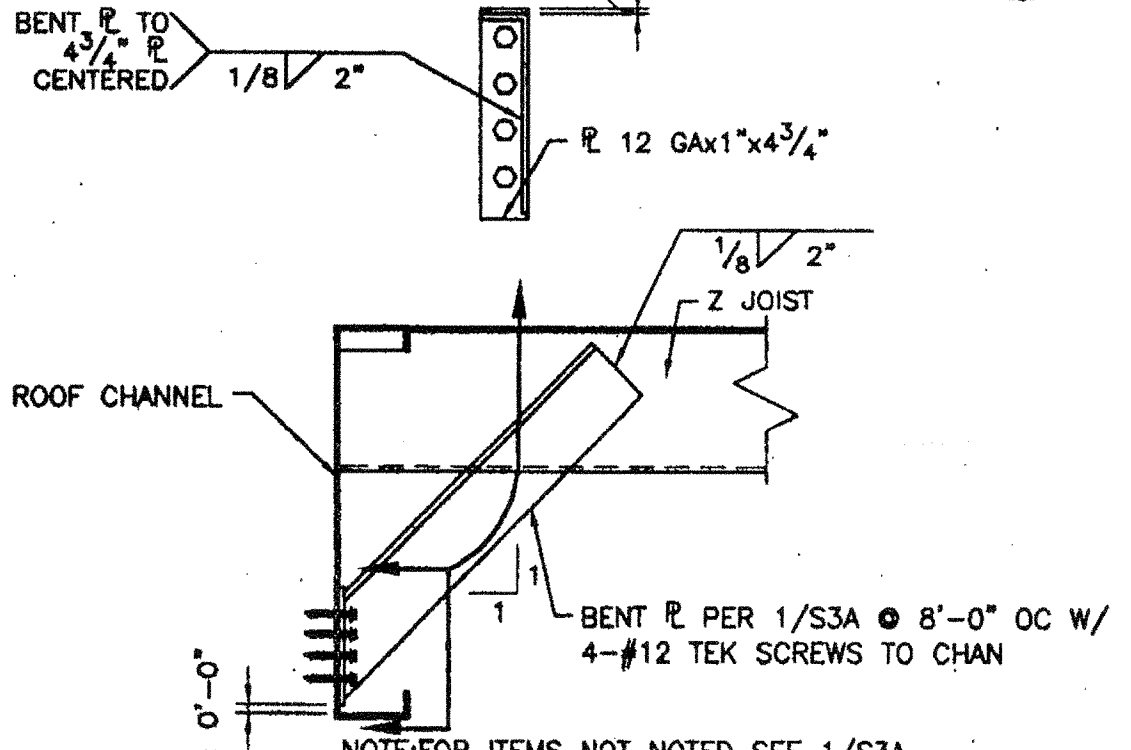
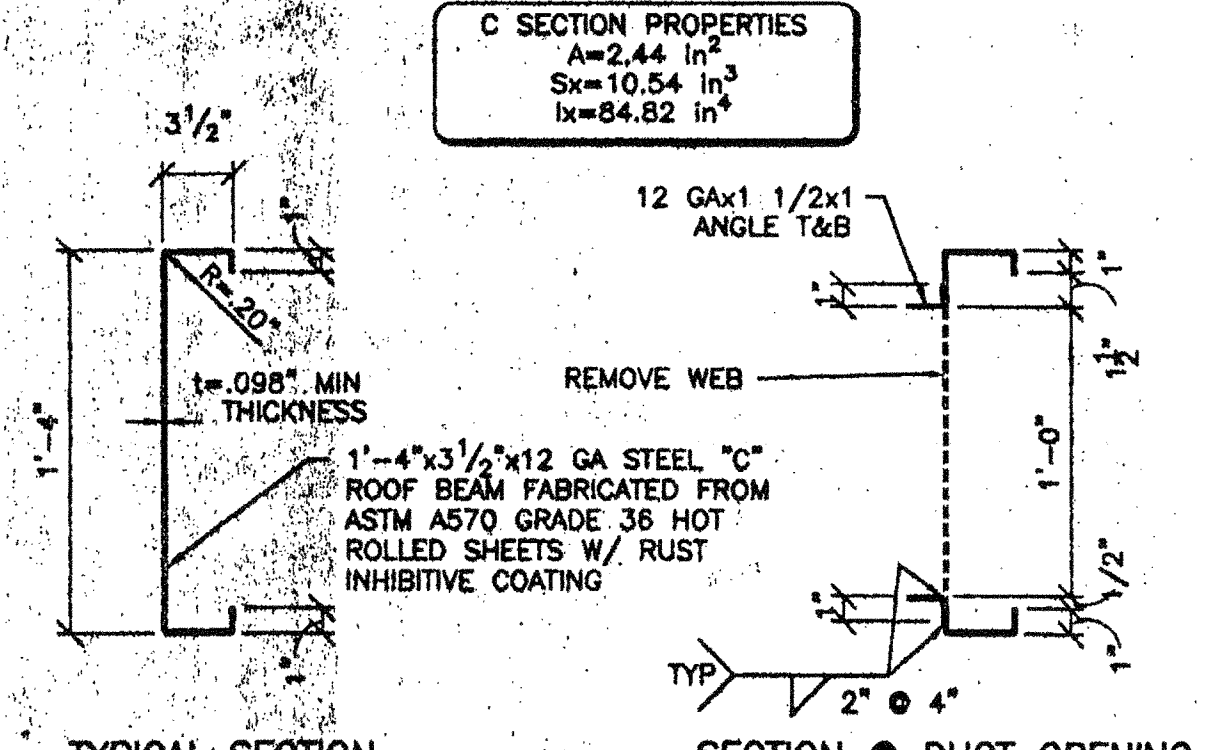
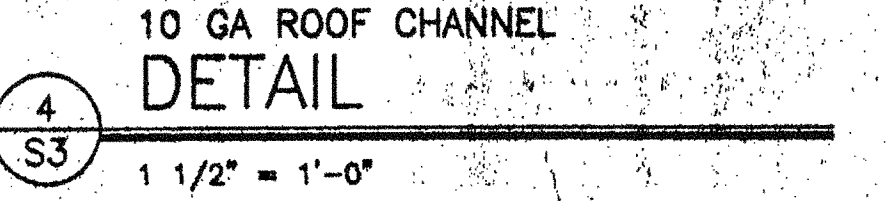
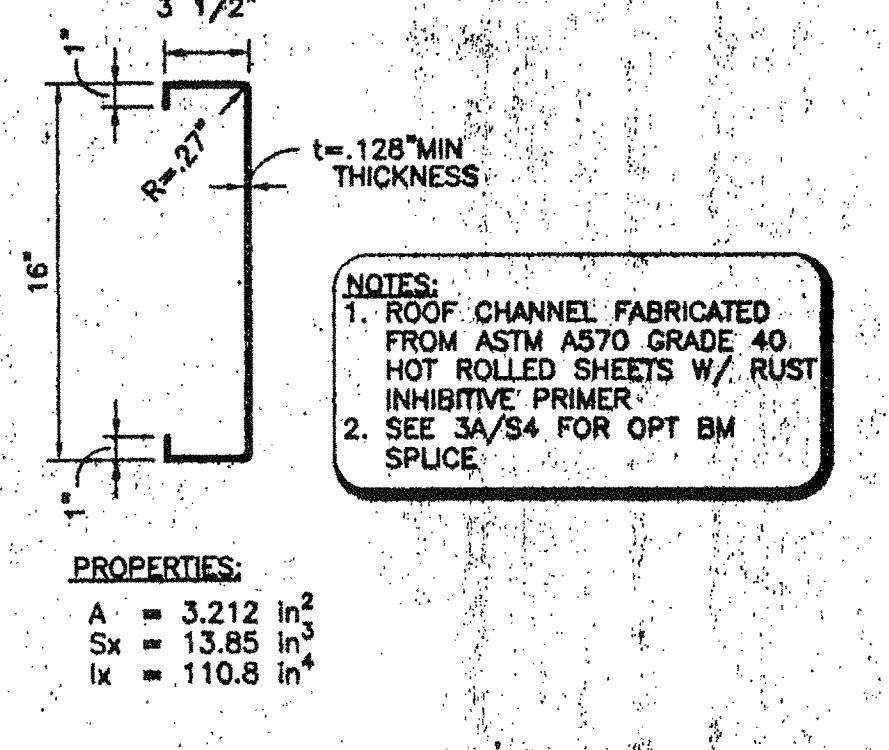
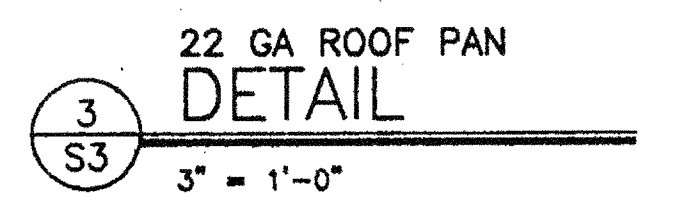
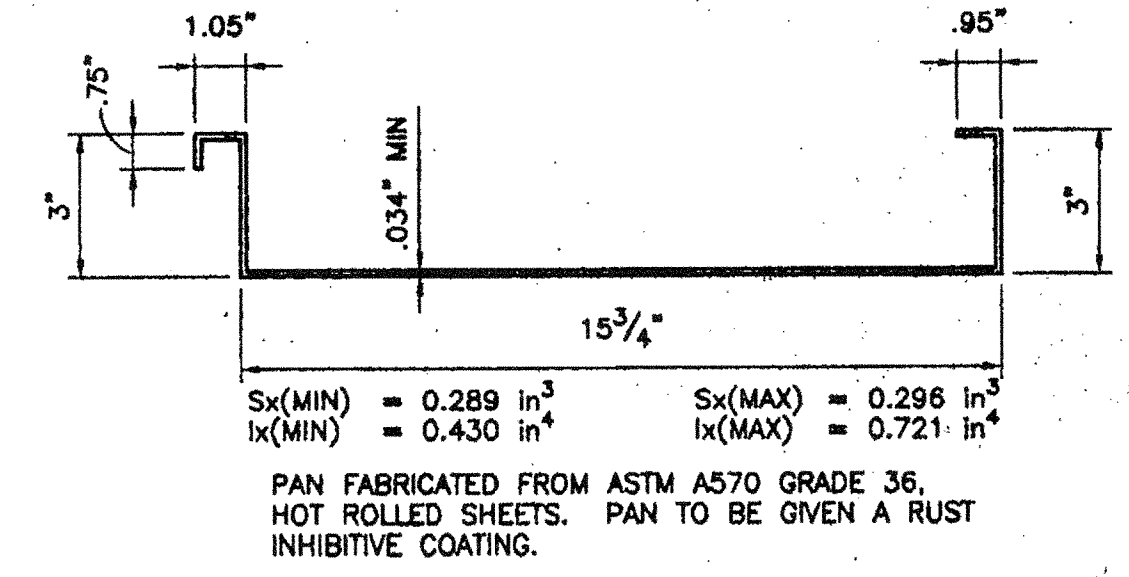
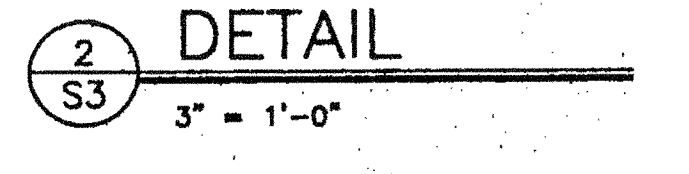
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
ACIS DATE: 1/10/18

FILE NO. PC
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPLICATION NO.
02-101857
DATE: 12 2 2000

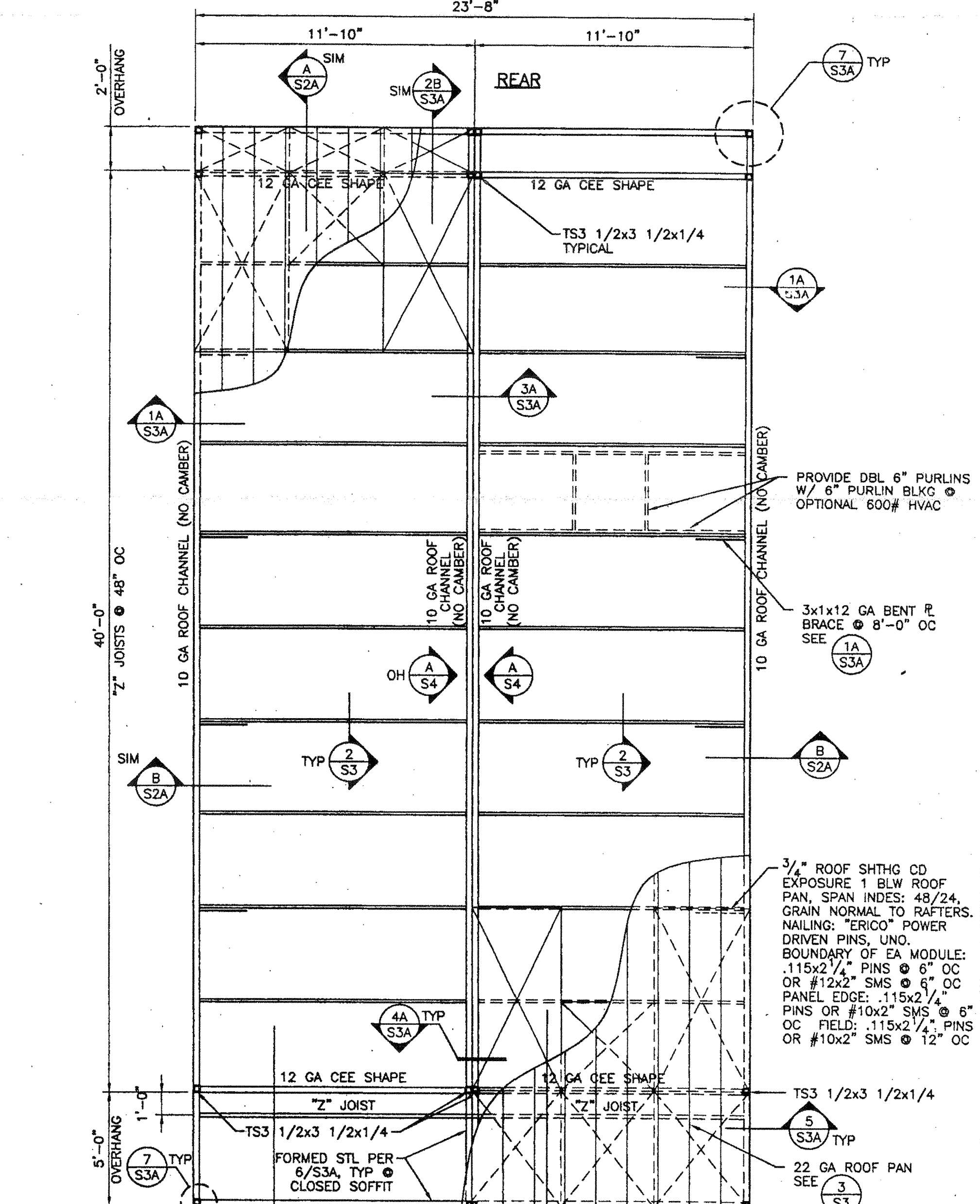
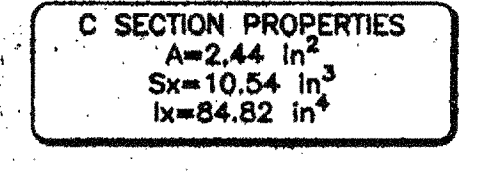
ML99100(ACAD)STRU1 S2A.dwg 10-25-99 3:20:53 pm EST



JOIST FABRICATED FROM ASTM A570 GRADE 36, HOT ROLLED SHEETS. JOISTS TO BE GIVEN A RUST INHIBITIVE COATING.



NOTES:
1. SEE SHEET S4 FOR TYPICAL WALL FRAMING.
2. C12x20.7, ASTM A36 BEAMS MAY BE SUBSTITUTED WHEREVER 10 GA ROOF CHANNELS ARE SHOWN ON ROOF PLAN.



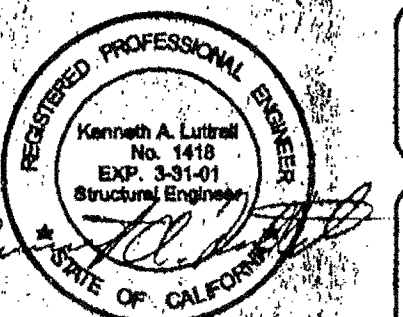
NOTES:
1. SEE SHEET S4 FOR TYPICAL WALL FRAMING.
2. C12x20.7 BEAMS MAY BE SUBSTITUTED WHEREVER 10 GA ROOF CHANNELS ARE SHOWN ON ROOF PLAN.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
DATE: 1/10/18

02 100043

FILE NO. PC
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPLICATION NO. 02-101837
DATE: JAN 12 2000

24 x 40
RELOCATABLE
CLASSROOM

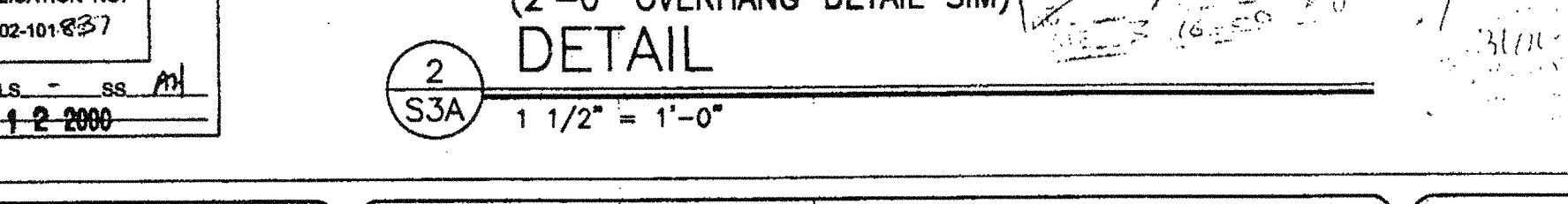
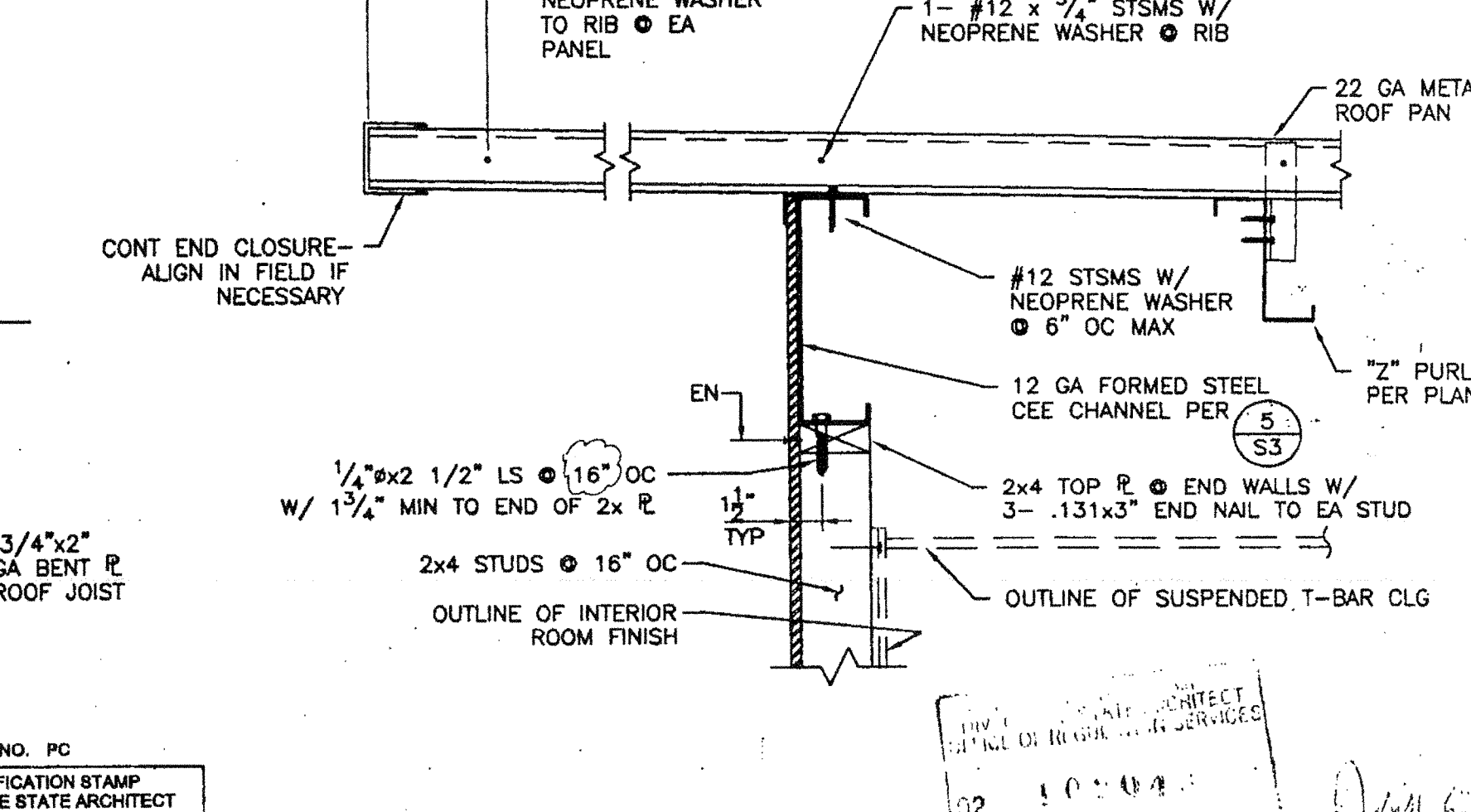
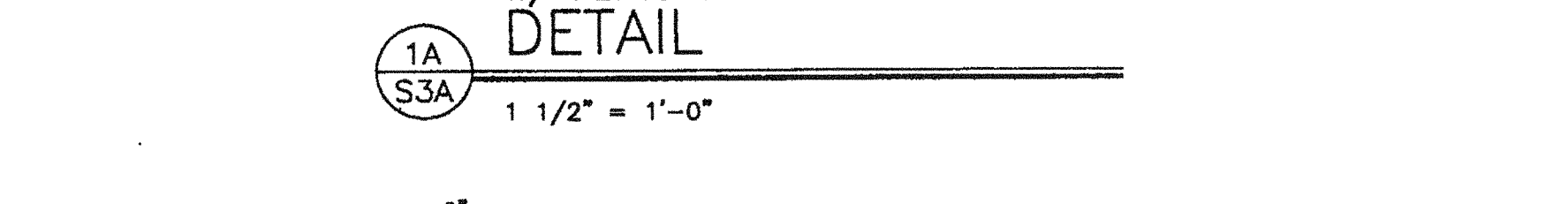
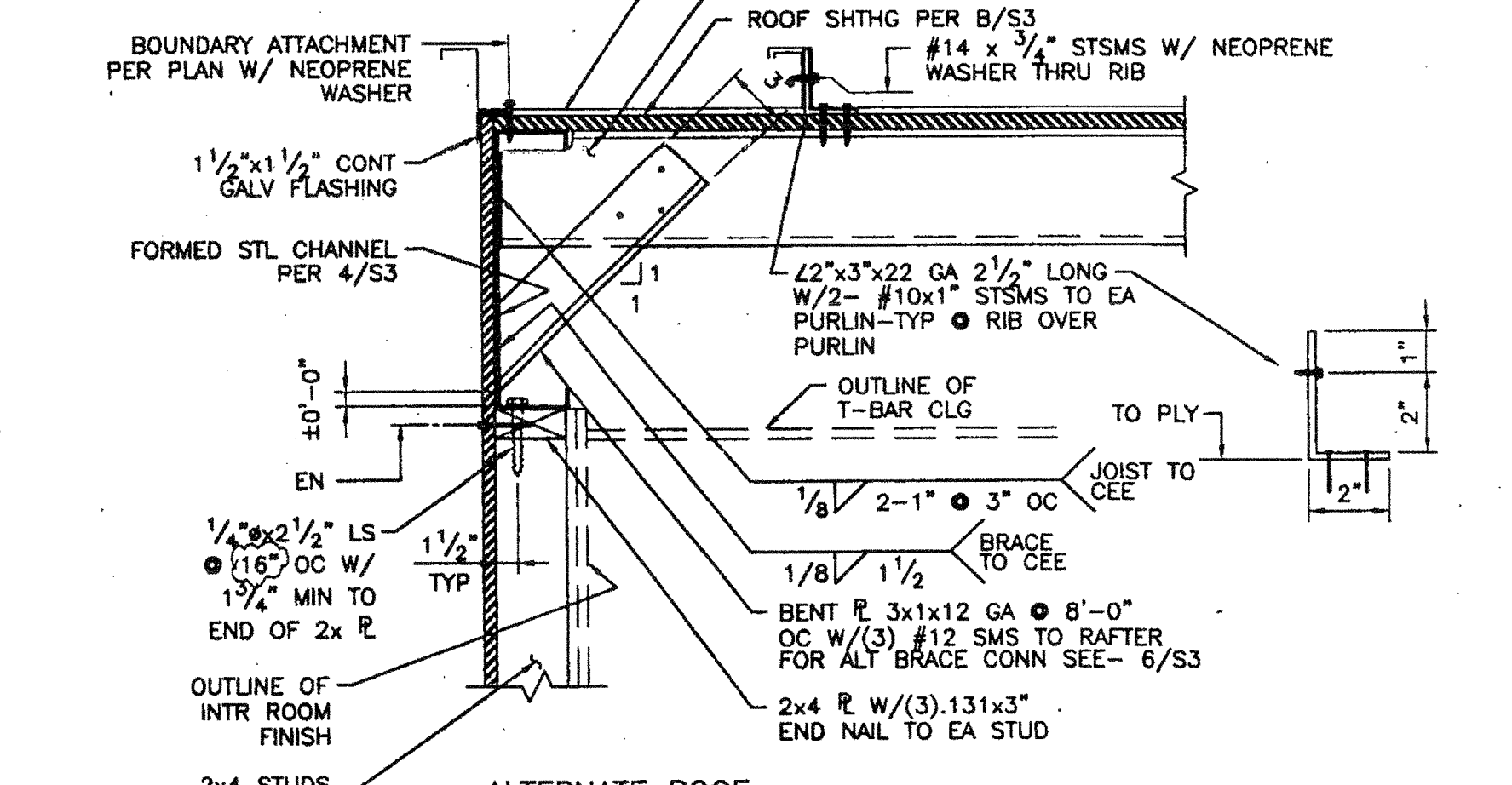
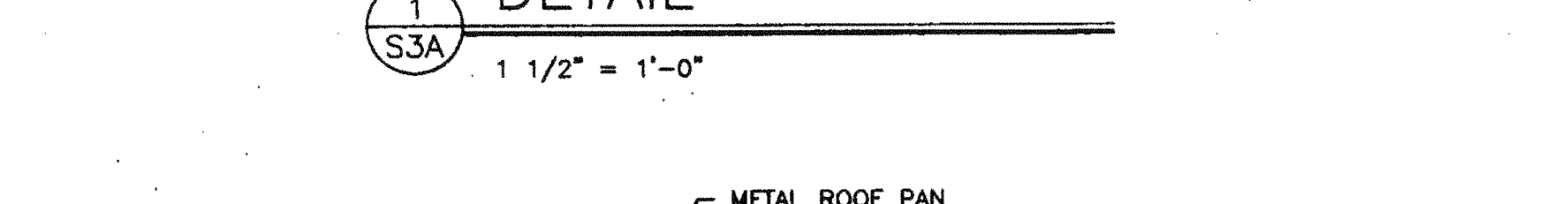
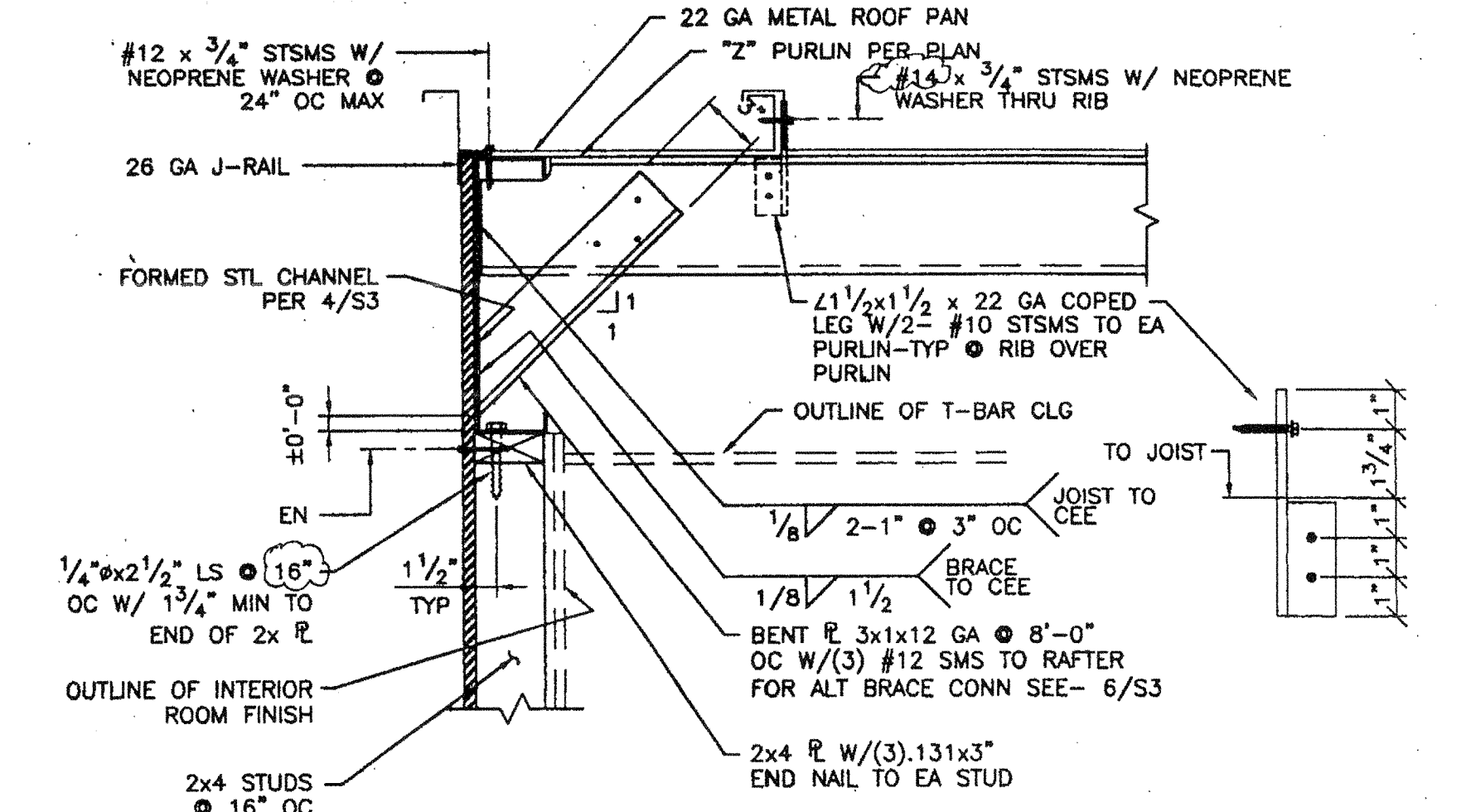
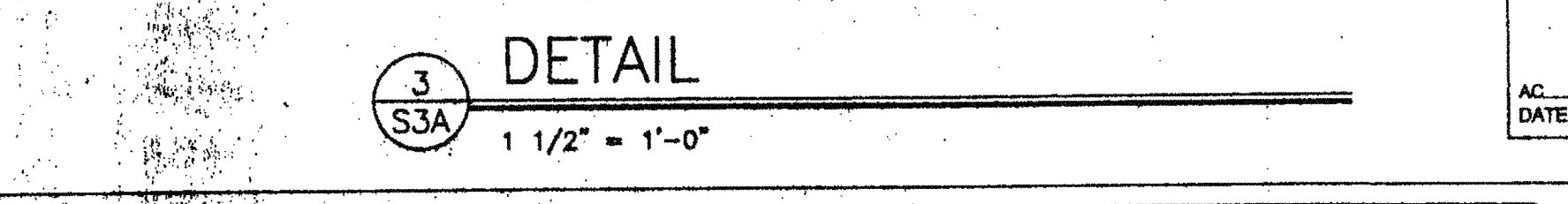
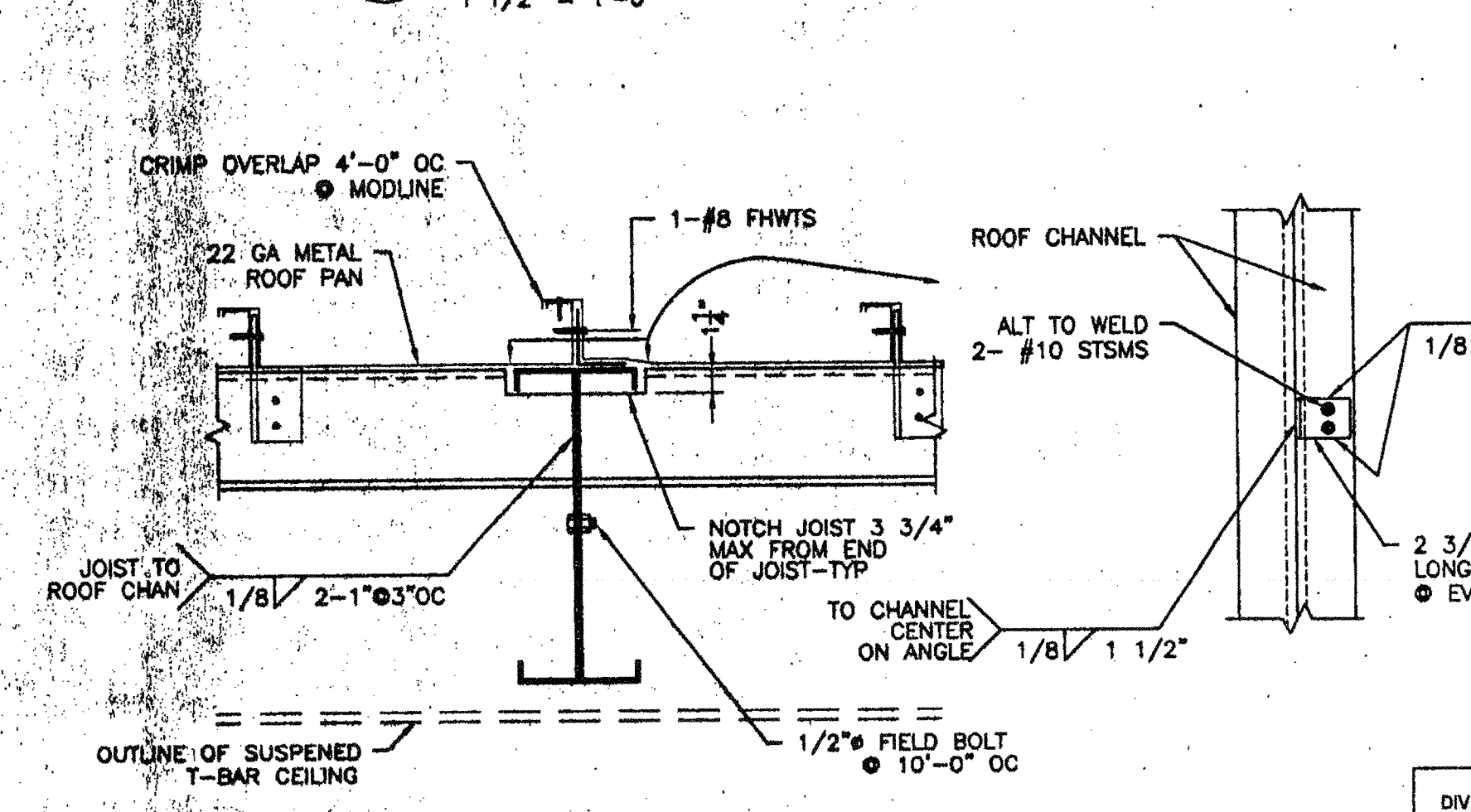
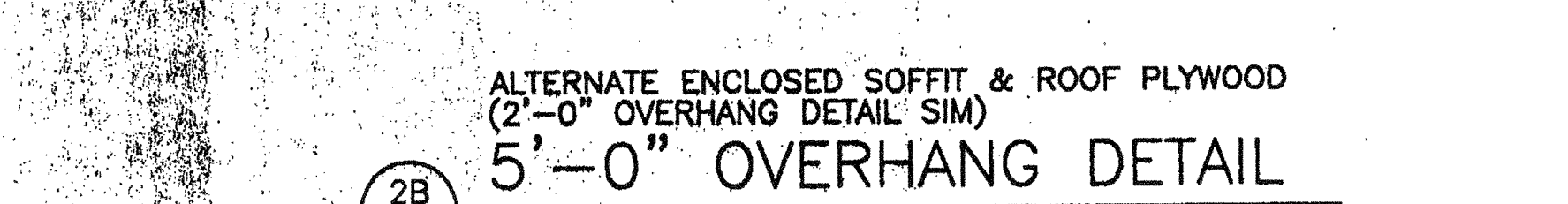
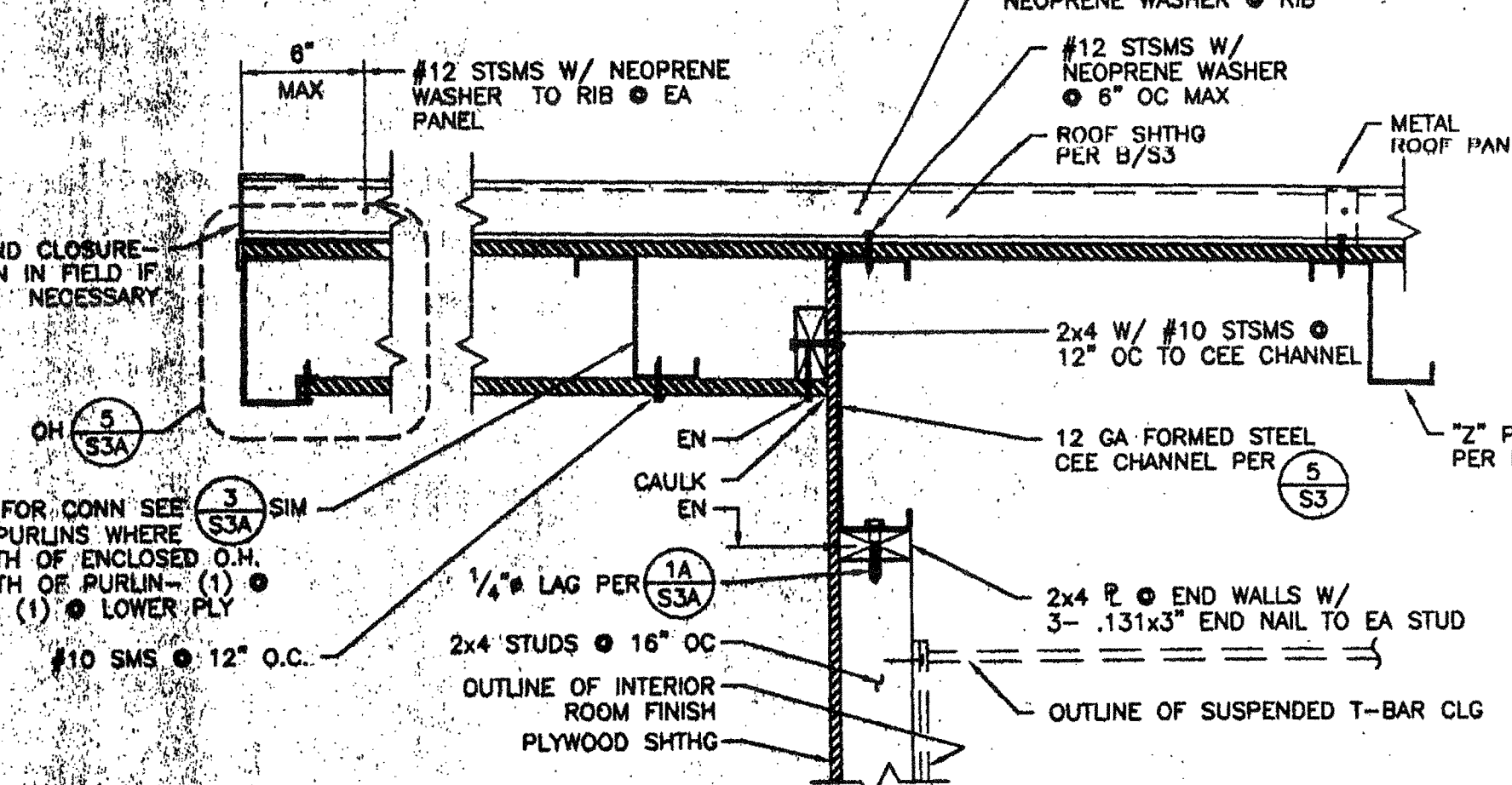
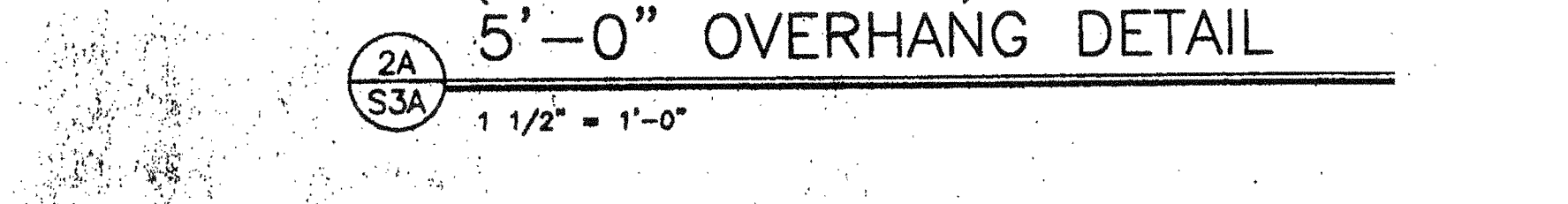
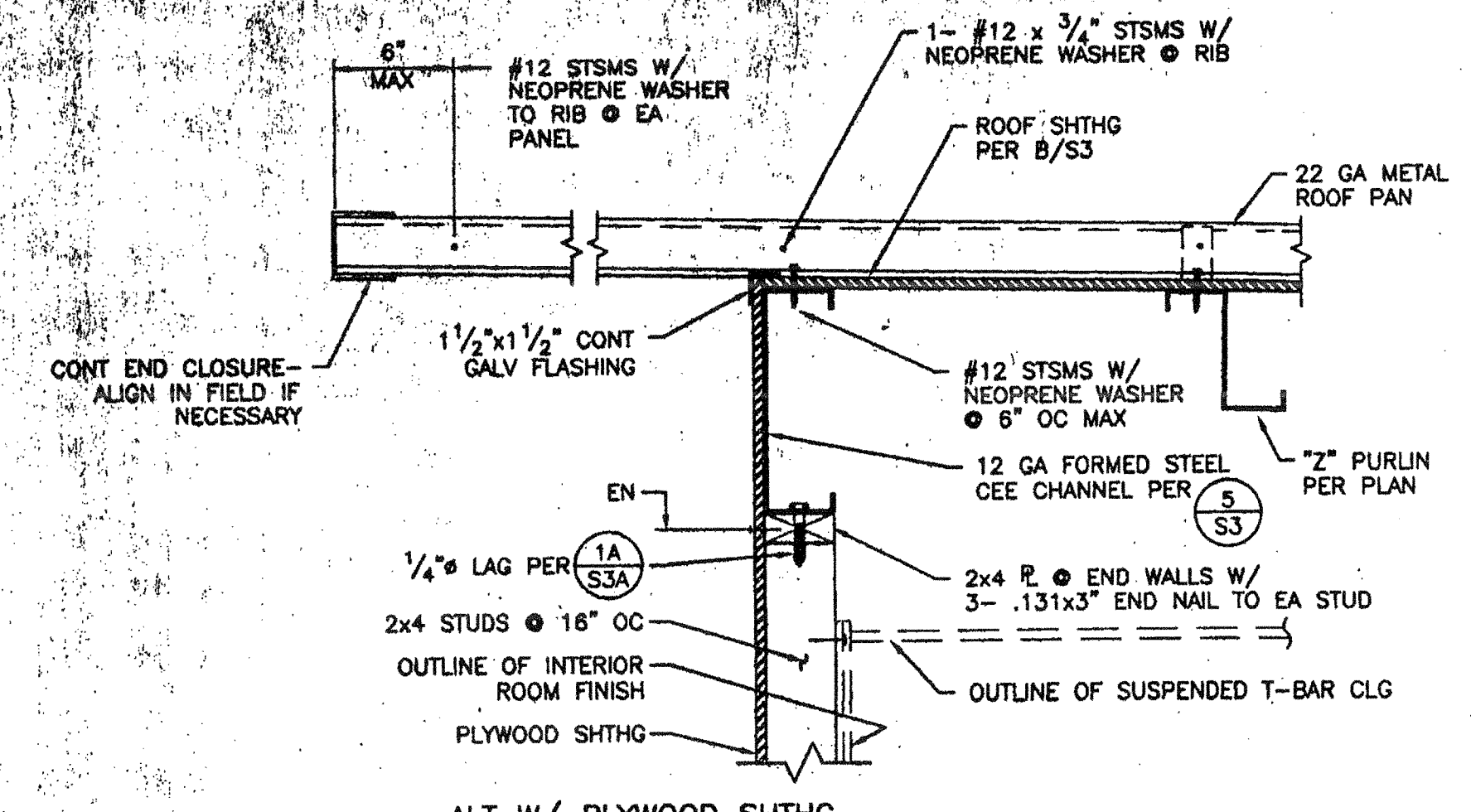
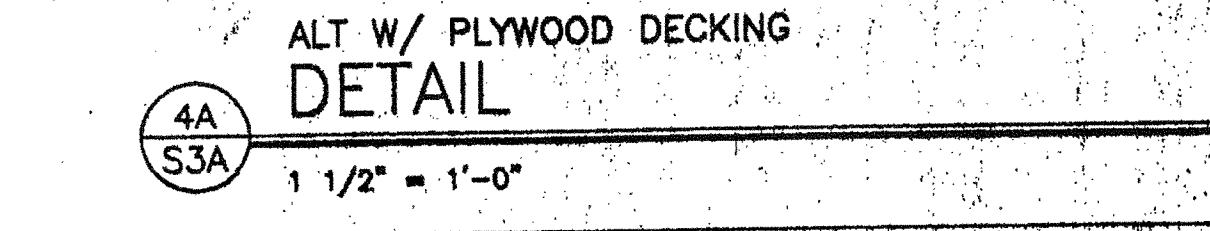
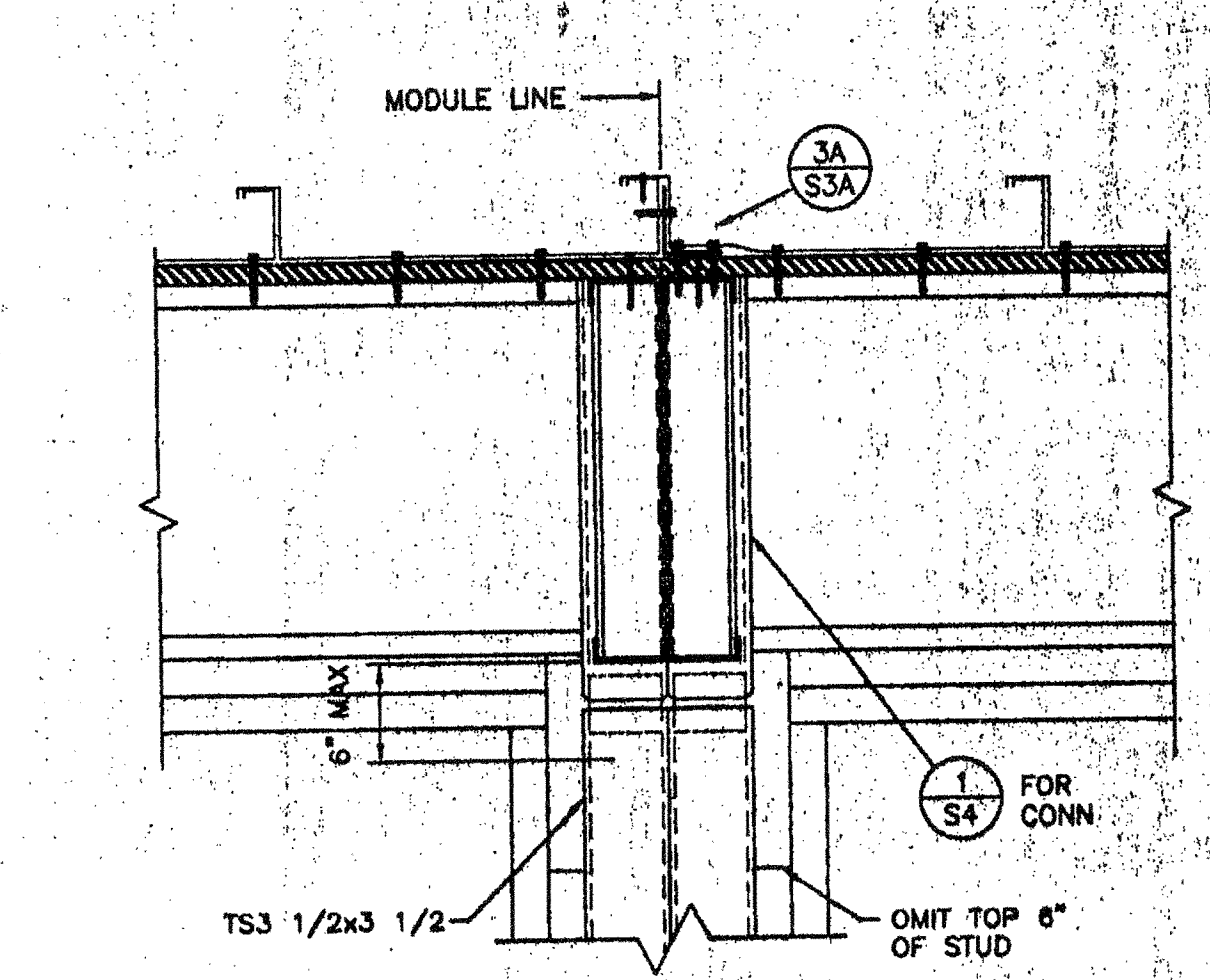
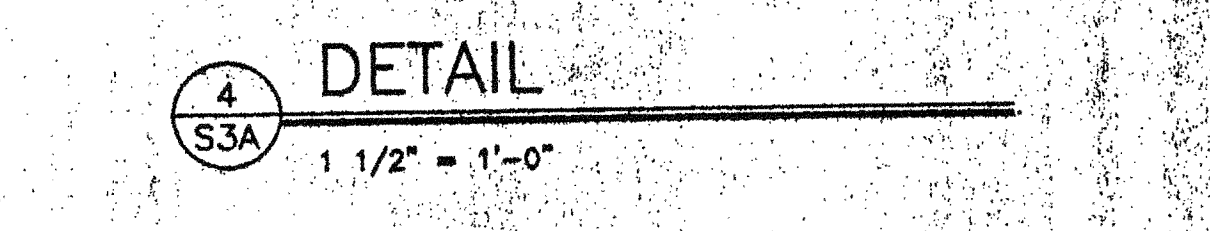
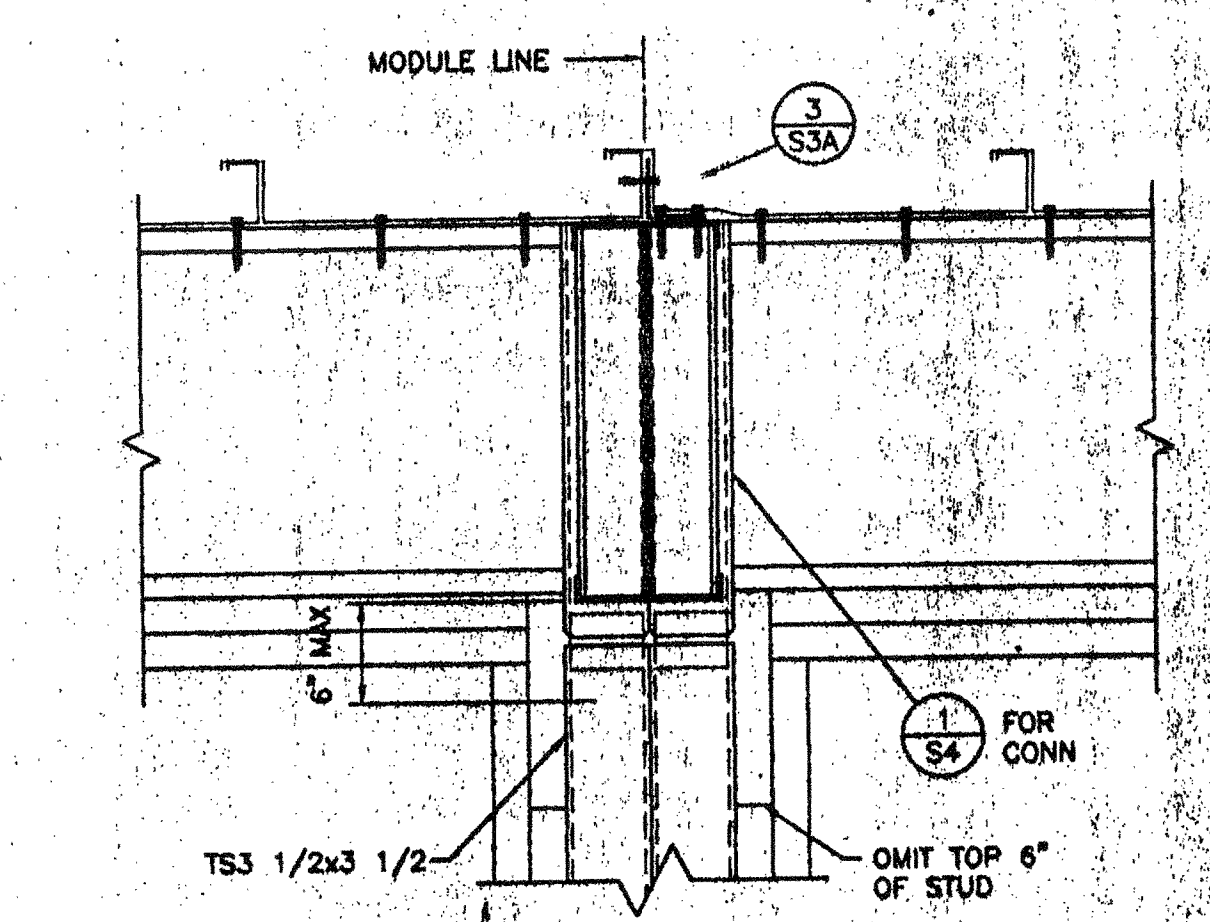
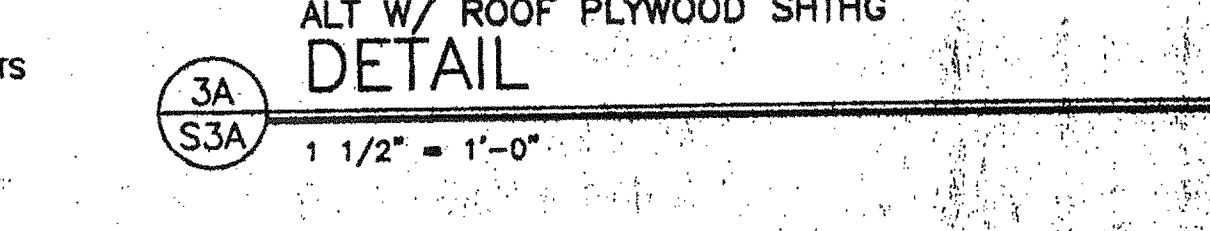
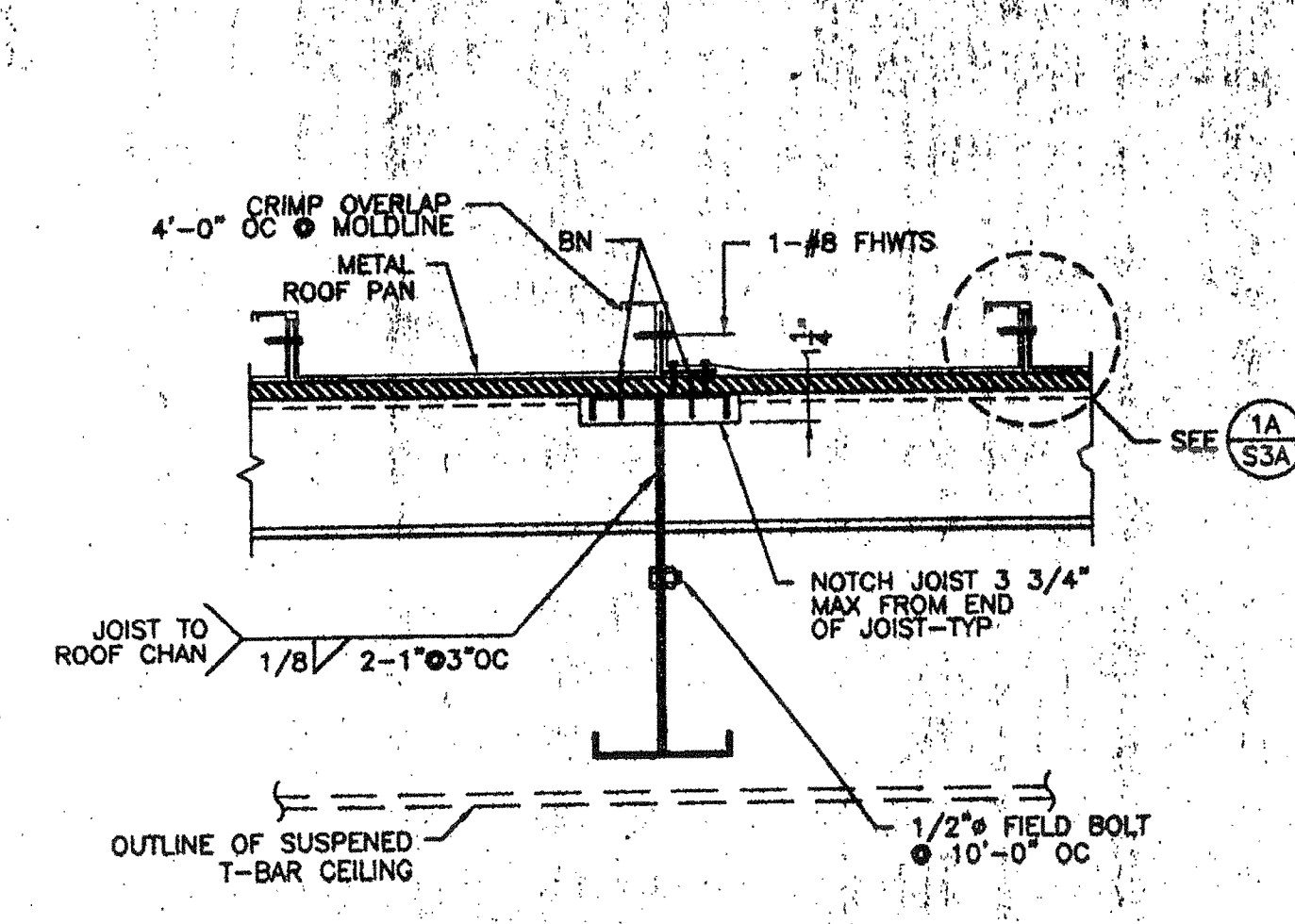
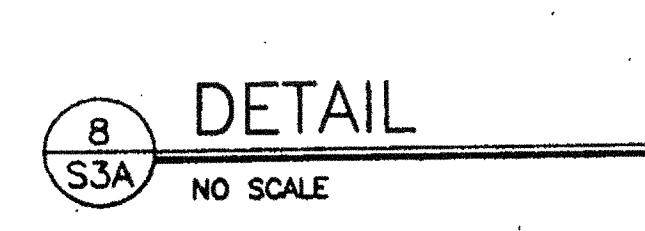
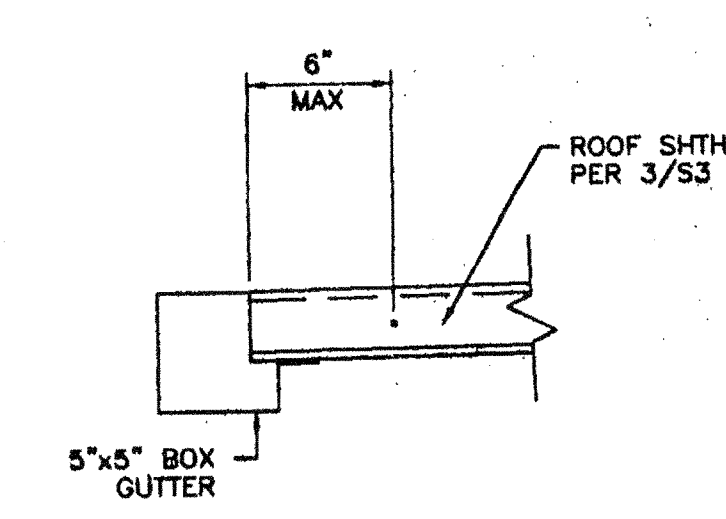
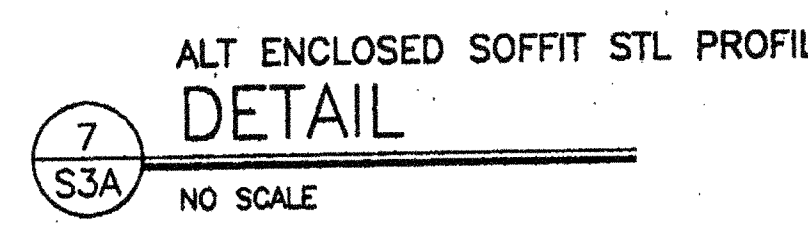
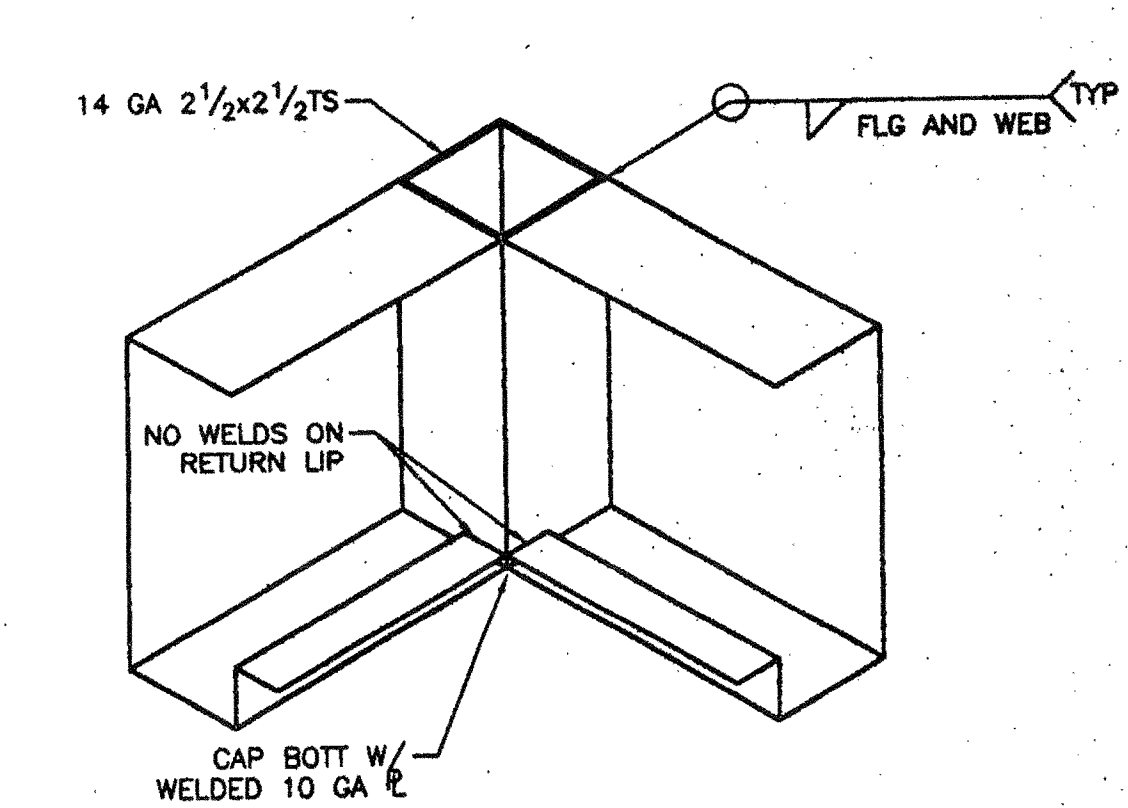
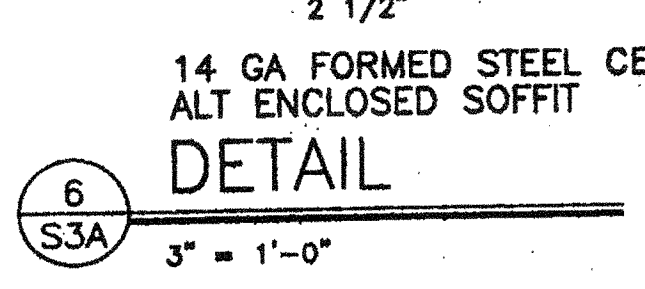
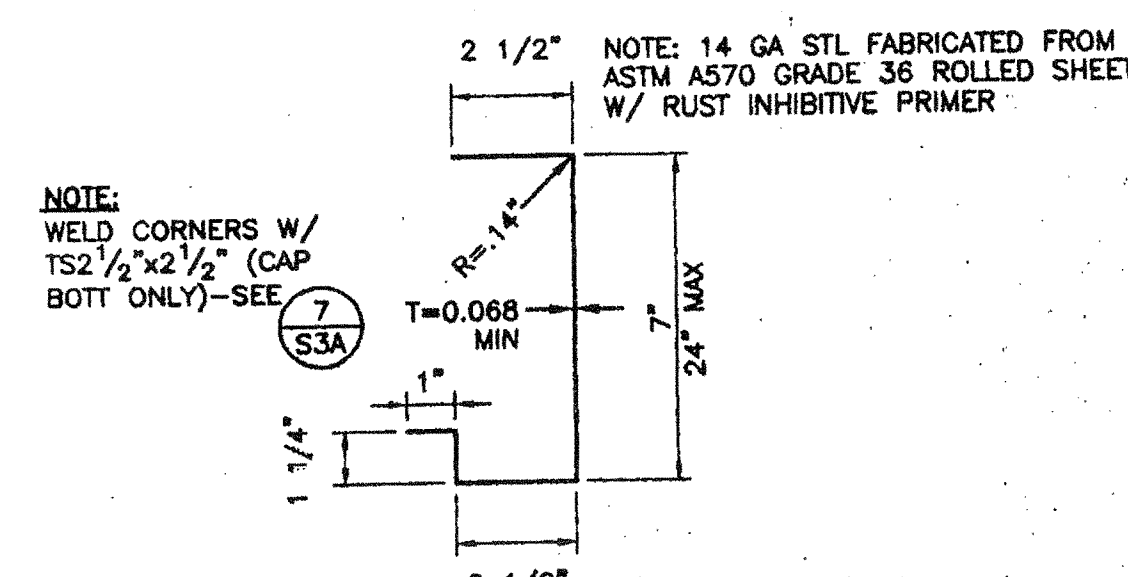
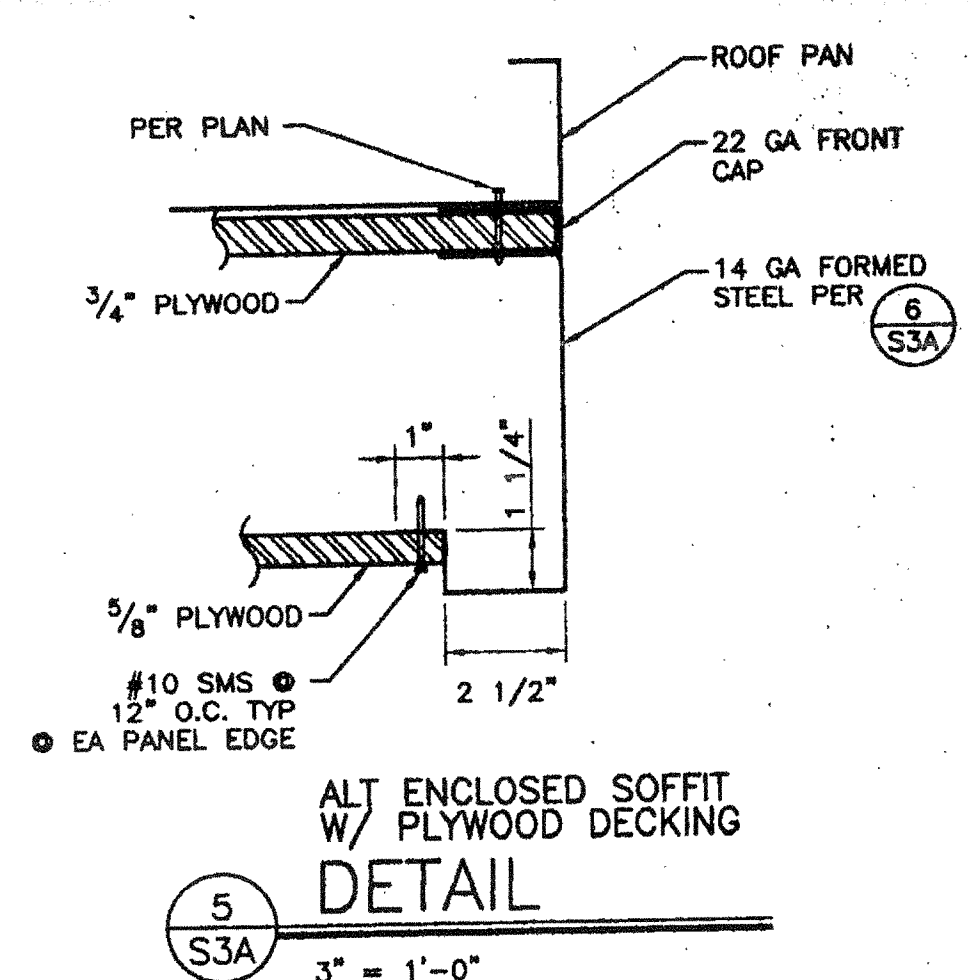


CUSTOMER:
ROOF FRAMING PLANS AND DETAILS

DATE: 12/27/99
SCALE: AS NOTED
DRAWN BY: PWD
DESIGNED BY: MDB
CHECKED BY: KAL
SERIAL NO.

REVISIONS					
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No.
99100
SHEET No.
S3

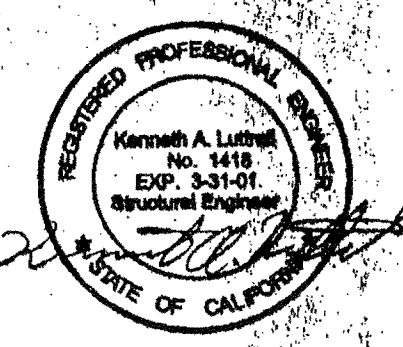


IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
ACS - PLS - SR - PH
DATE: 1/10/99

FILE NO. PC
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPLICATION NO.
02-101027
AC - PLS - SR - PH
DATE: JAN 12 2000

10-10-99
10-10-99
10-10-99

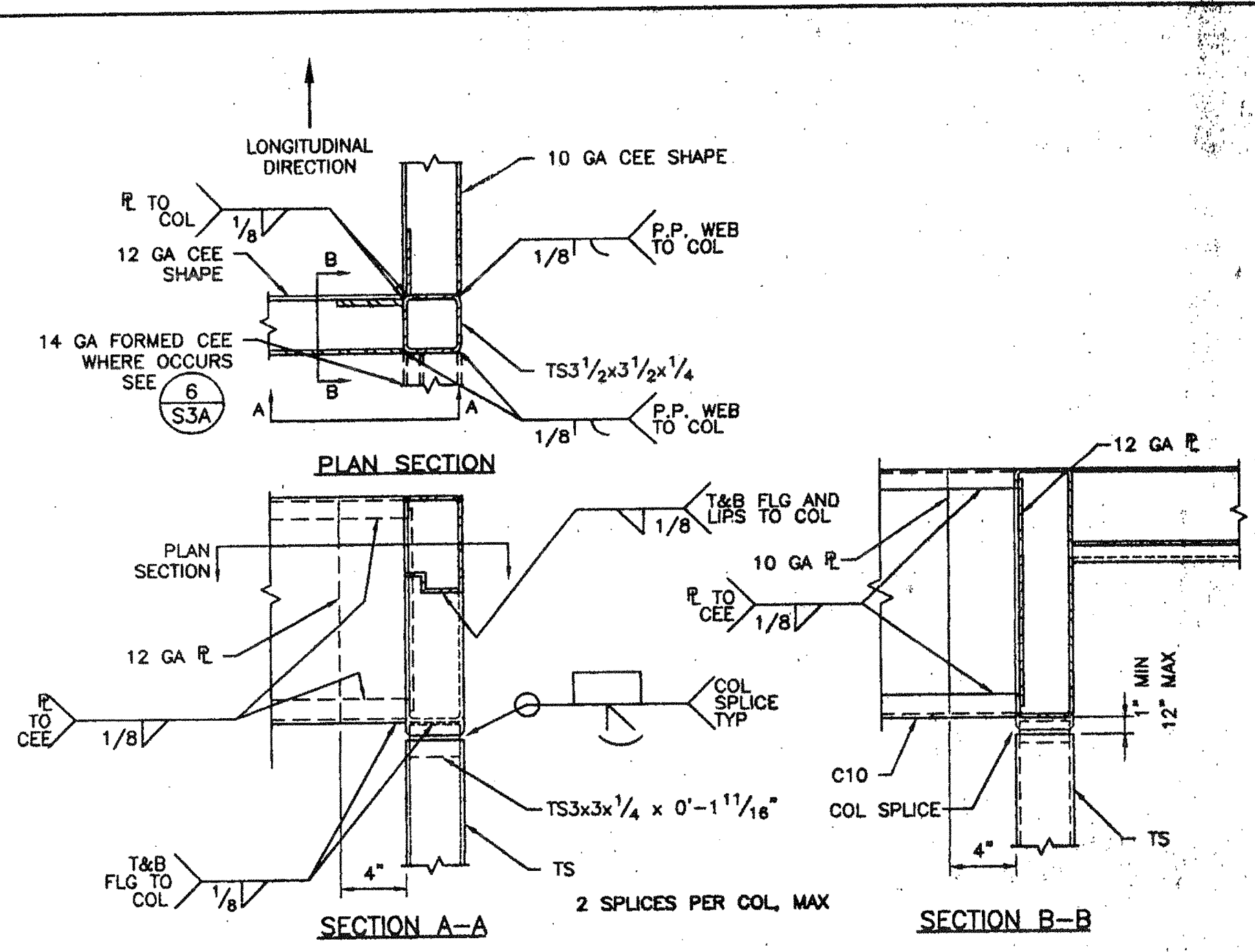
American Modular Systems



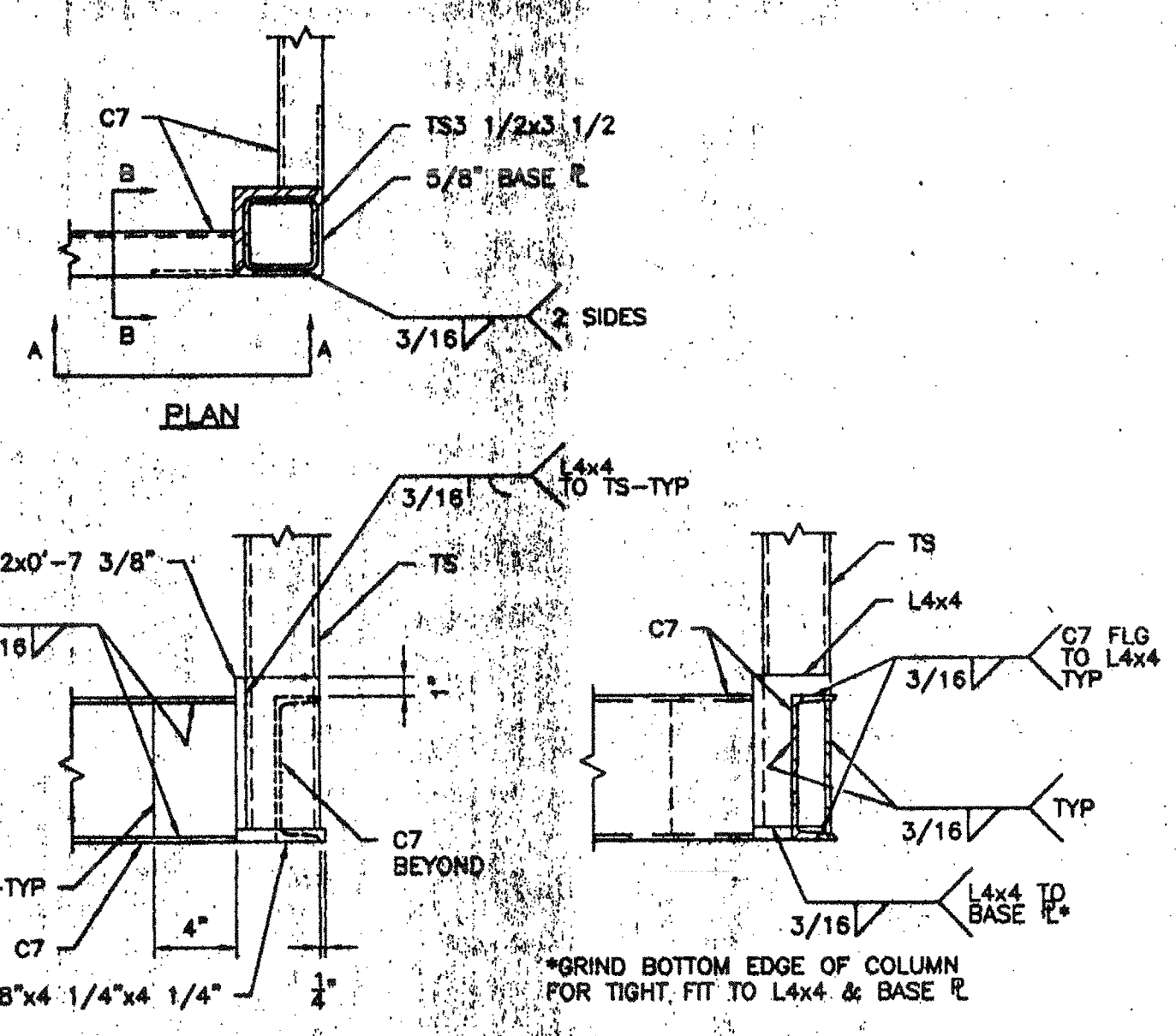
CUSTOMER: _____
DATE: 12/27/99
SCALE: AS NOTED
DRAWN BY: PWD
DESIGNED BY: MDB
CHECKED BY: KAL
SERIAL NO. _____

REVISIONS					
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

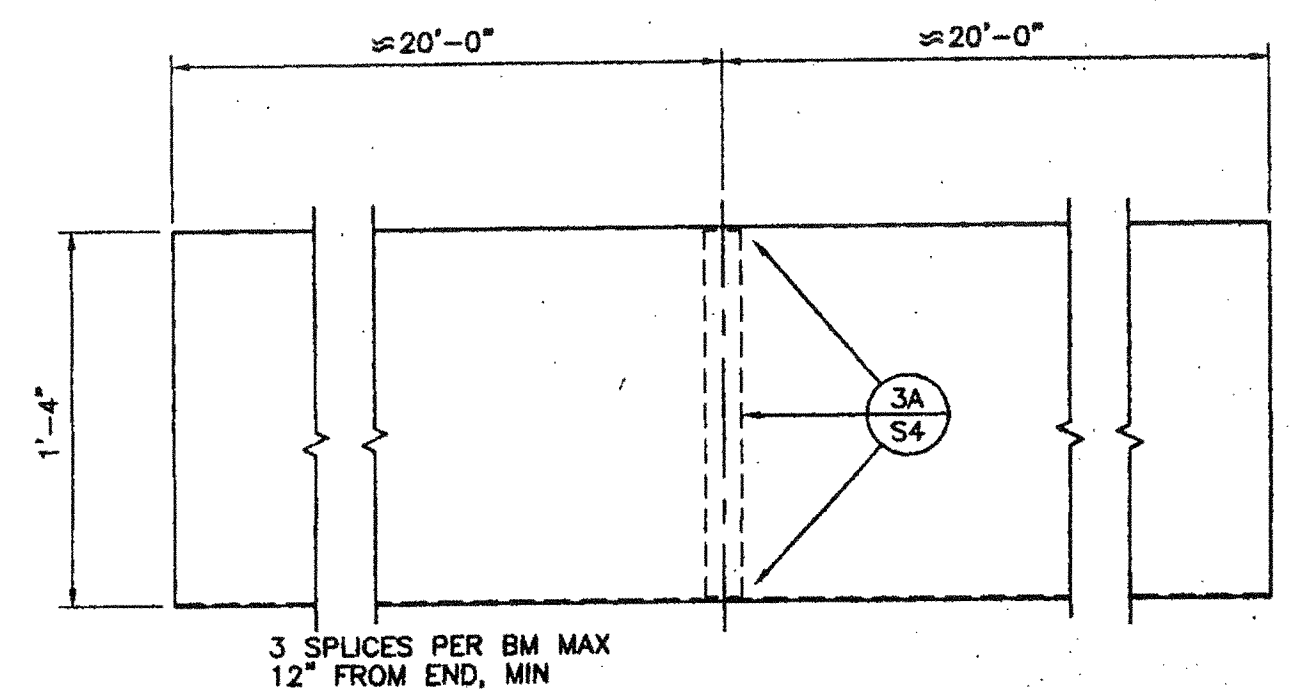
PROJECT No.
99100
SHEET No.
S3A



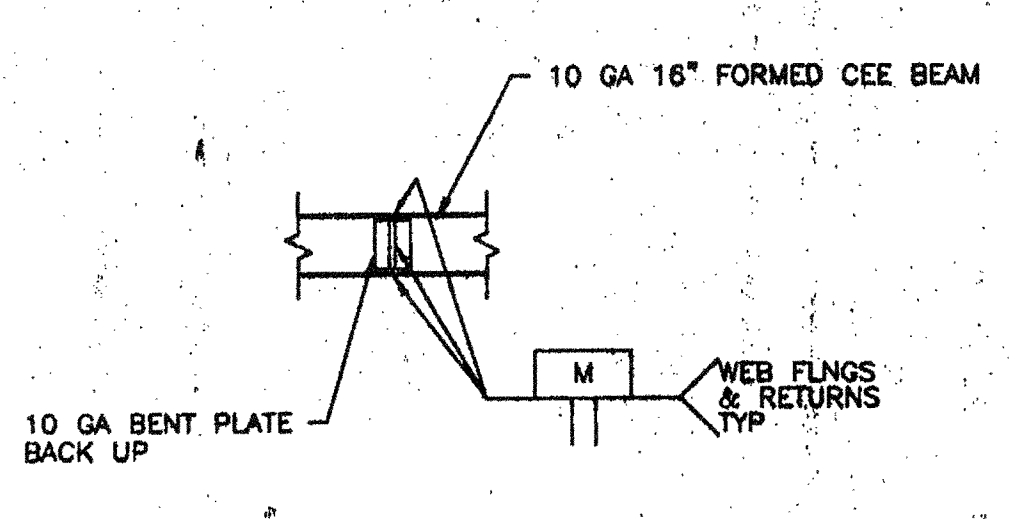
TOP CONNECTION DETAIL
 1
 1/2" = 1'-0"



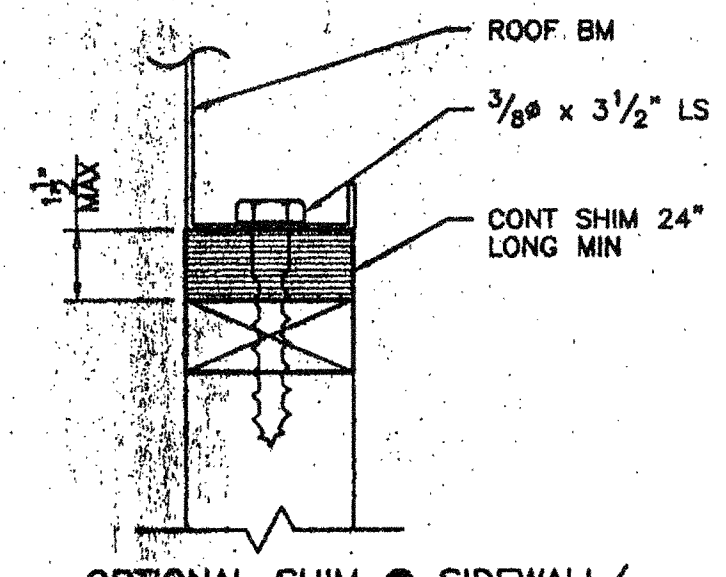
BOTTOM CONNECTION DETAIL
 2
 1/2" = 1'-0"



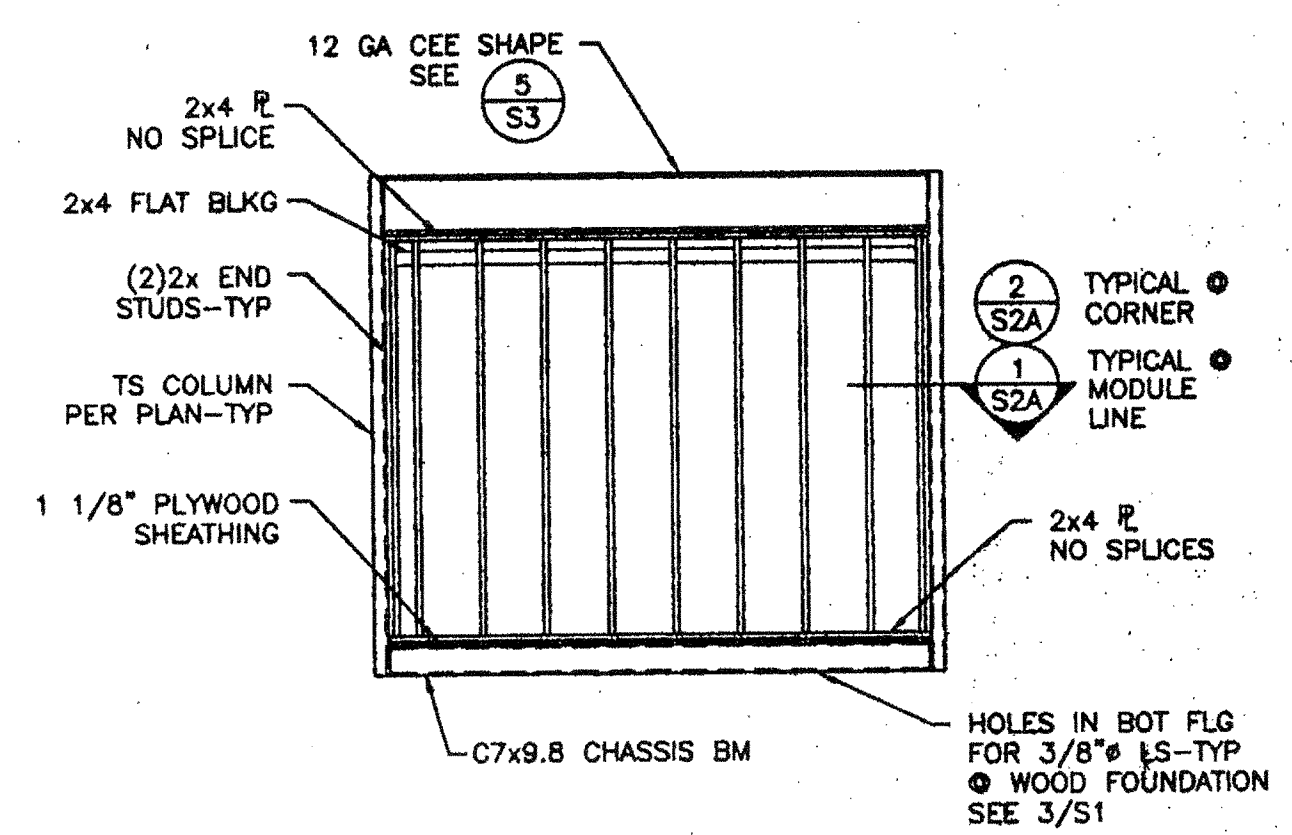
OPTIONAL BEAM SPLICE LOCATION DETAIL
 3
 1/2" = 1'-0"



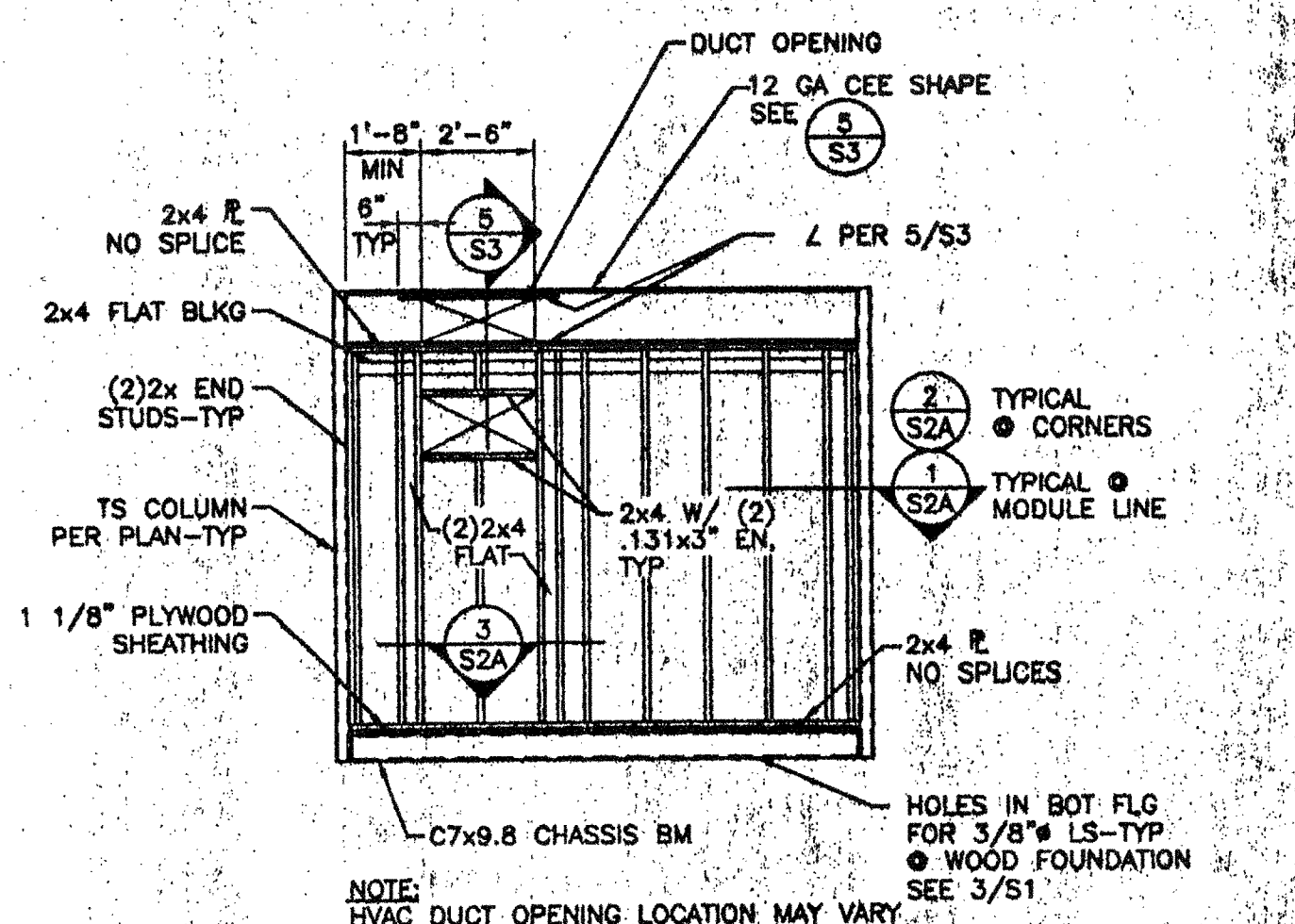
BEAM SPLICE DETAIL
 3A
 1/2" = 1'-0"



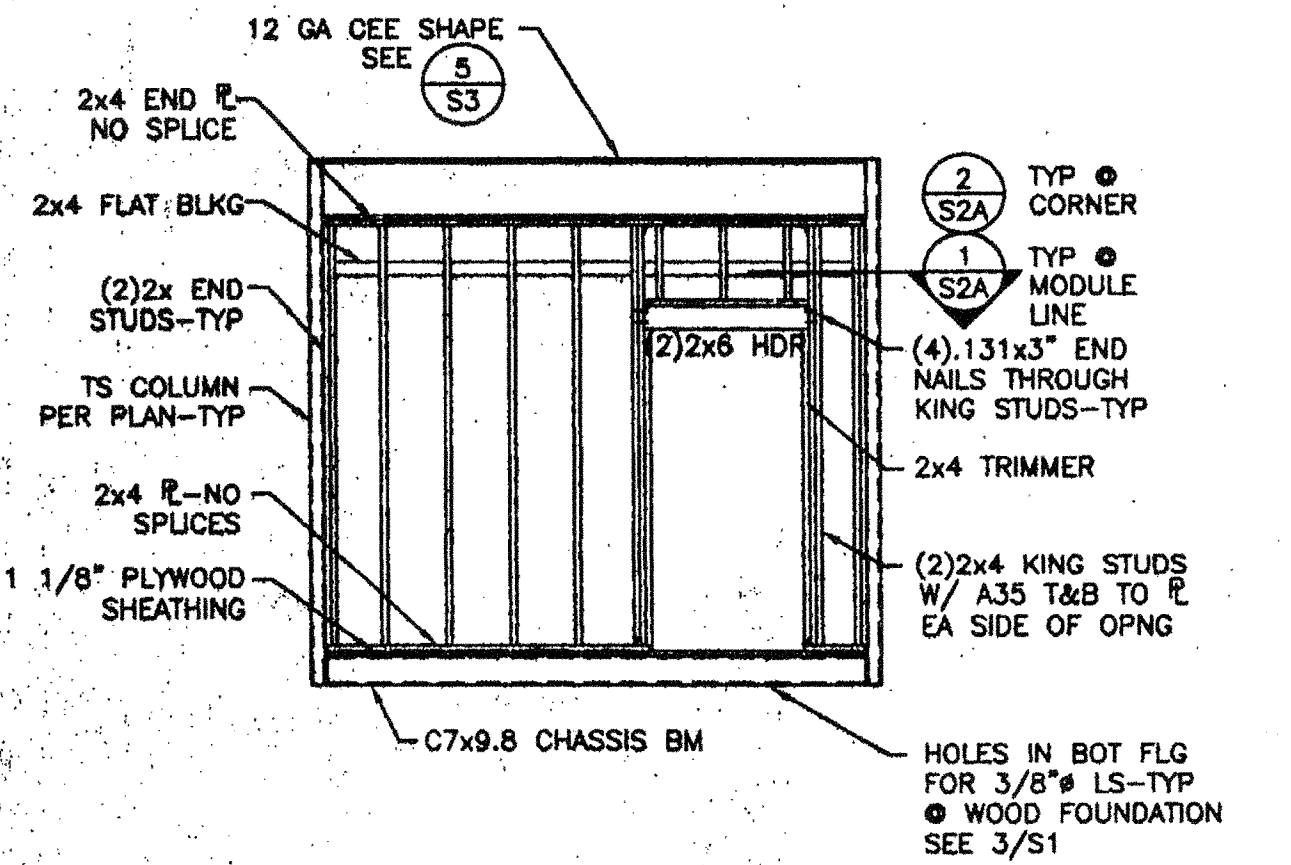
OPTIONAL SHIM & SIDEWALL/ENDWALL SIM DETAIL
 4
 1/2" = 1'-0"



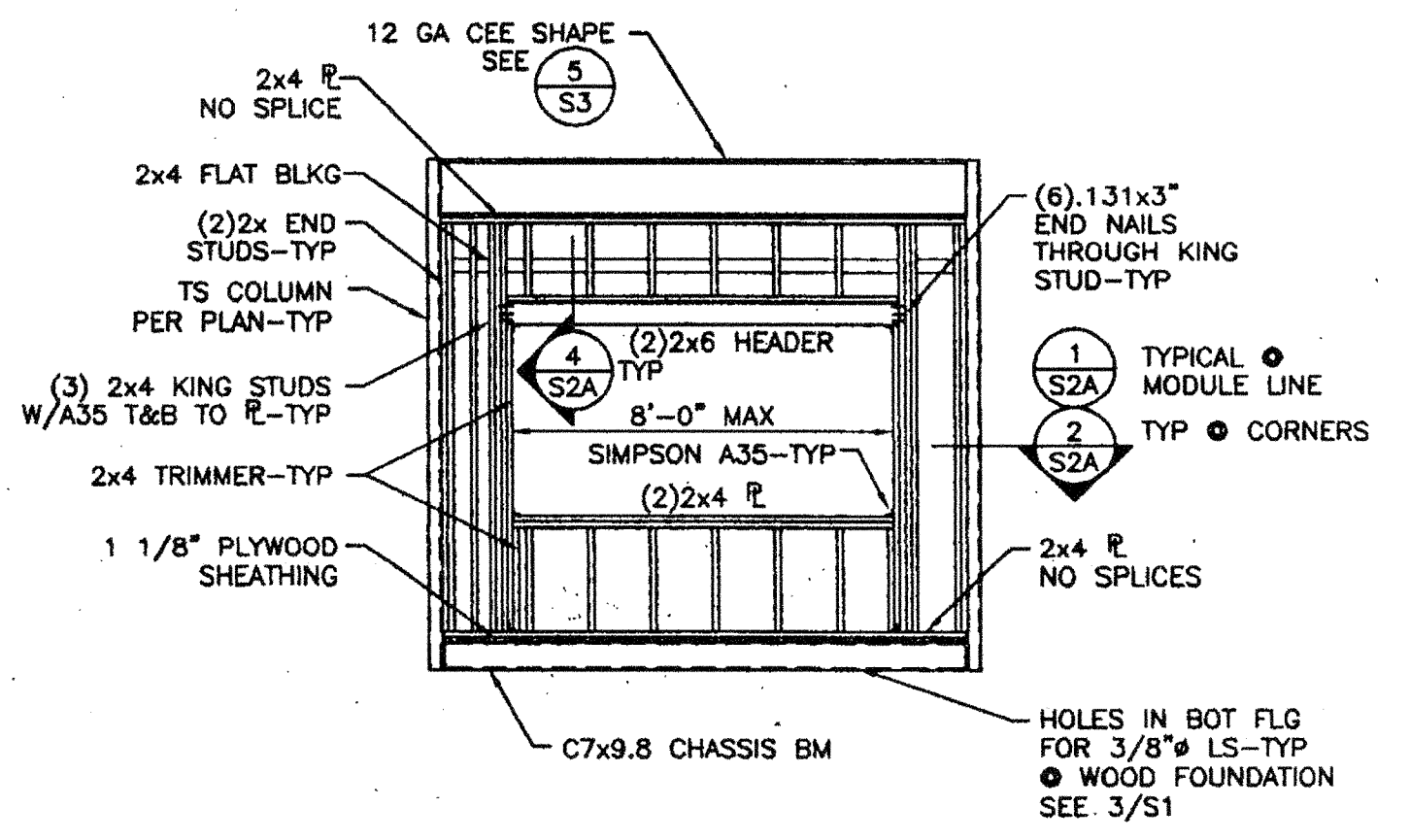
SOLID END WALL ELEVATION
 C
 1/4" = 1'-0"



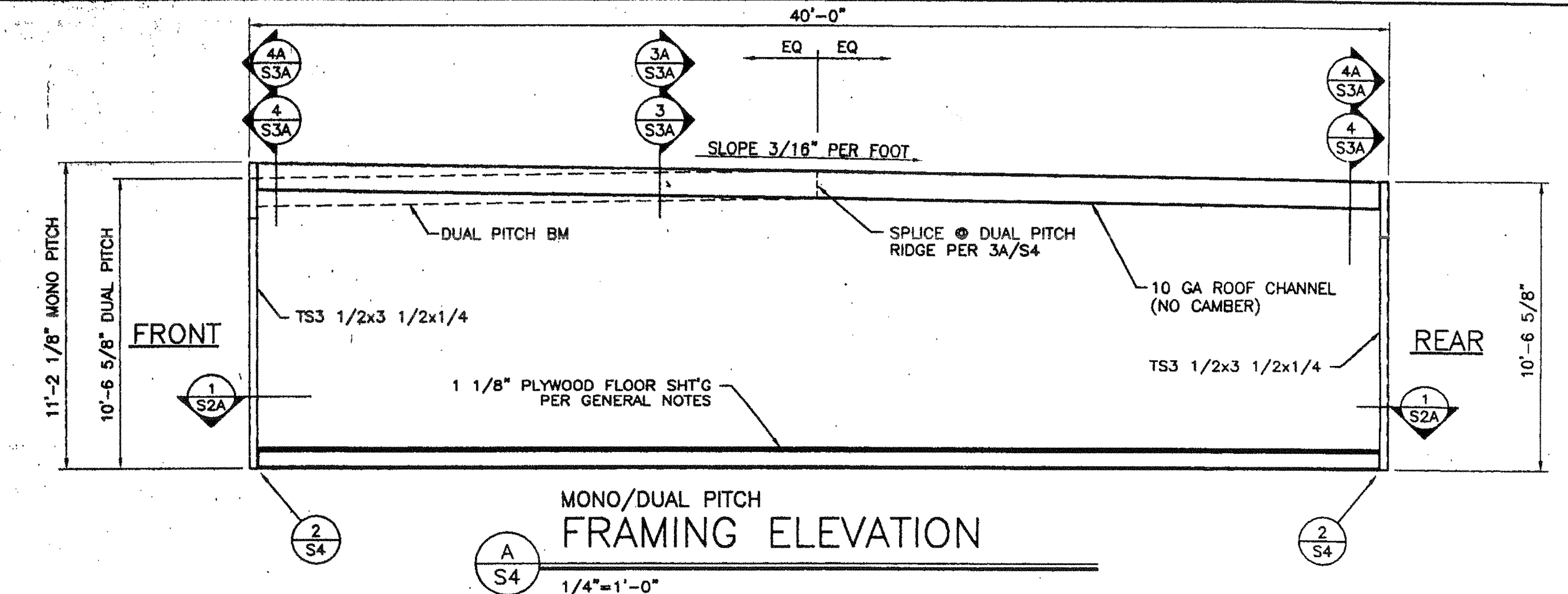
HVAC END WALL ELEVATION
 D
 1/4" = 1'-0"



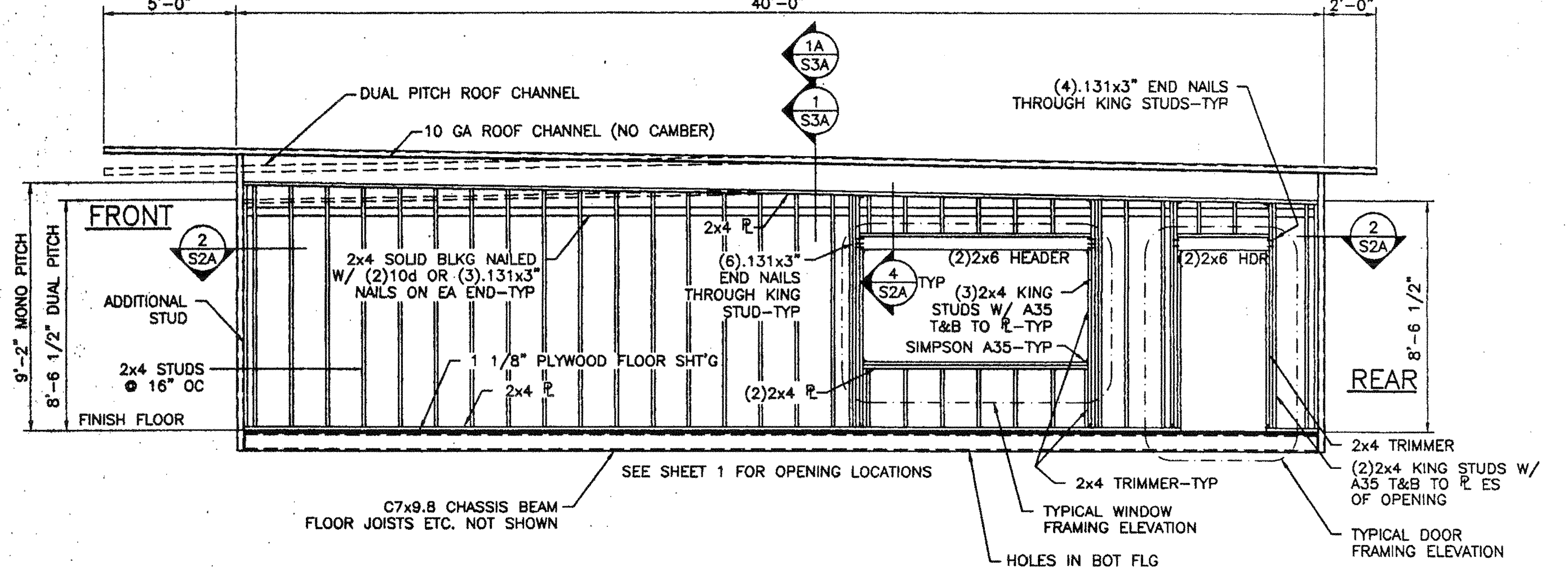
DOOR END WALL ELEVATION
 E
 1/4" = 1'-0"



WINDOW END WALL ELEVATION
 F
 1/2" = 1'-0"



FRONT MONO/DUAL PITCH FRAMING ELEVATION
 A
 1/4" = 1'-0"



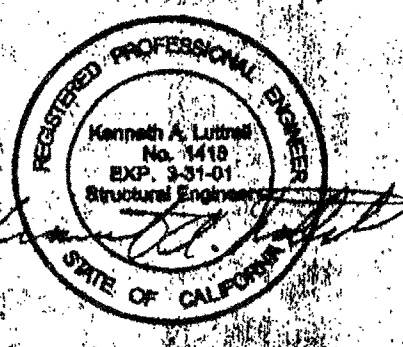
REAR MONO/DUAL PITCH FRAMING ELEVATION
 B
 1/4" = 1'-0"

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 APPL 01-117316
 HCB PLS SSS D.M.
 DATE 1/10/18

STATE ARCHITECT
 DIVISION OF REGULATION SERVICES
 APPLICATION NO. 02-101937
 DATE JAN 12 2000

FILE NO. PC
 IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 APPLICATION NO. 02-101937
 DATE JAN 12 2000

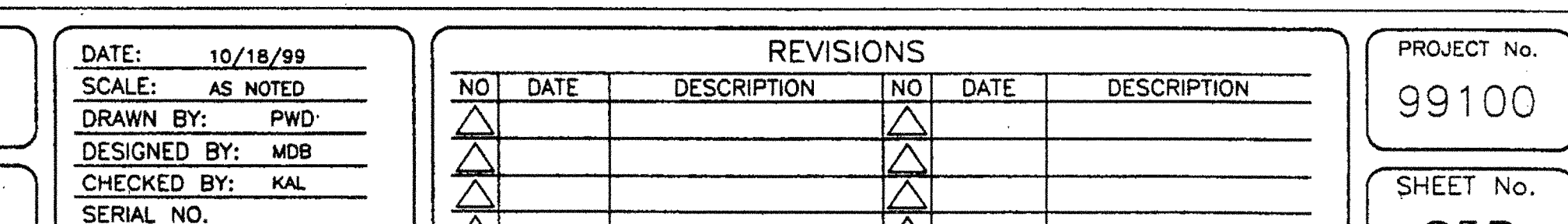
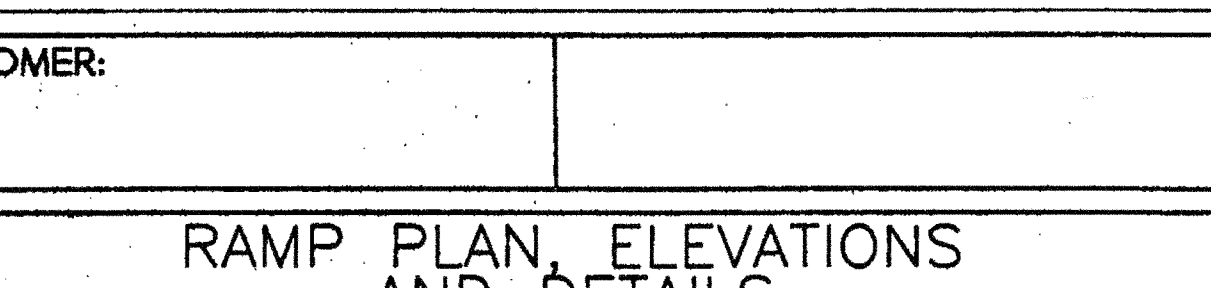
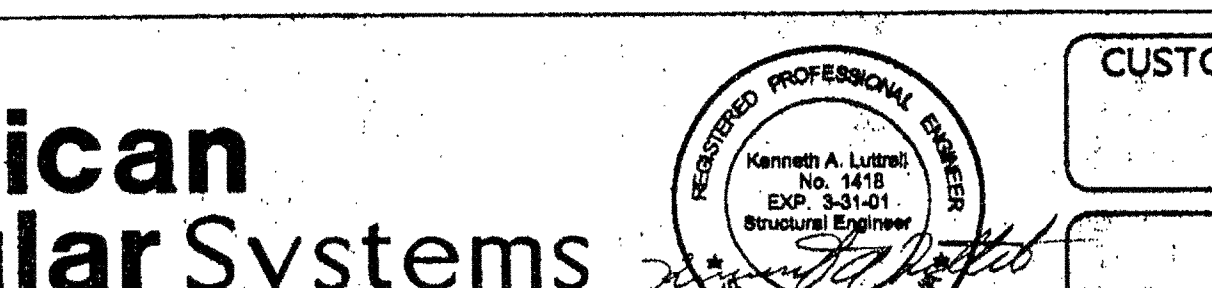
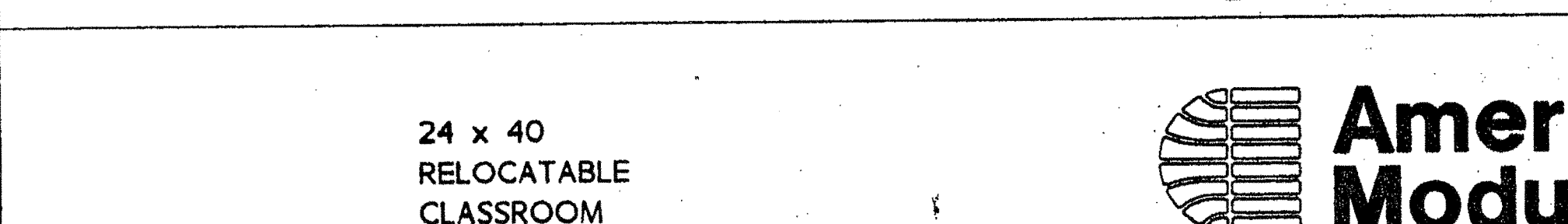
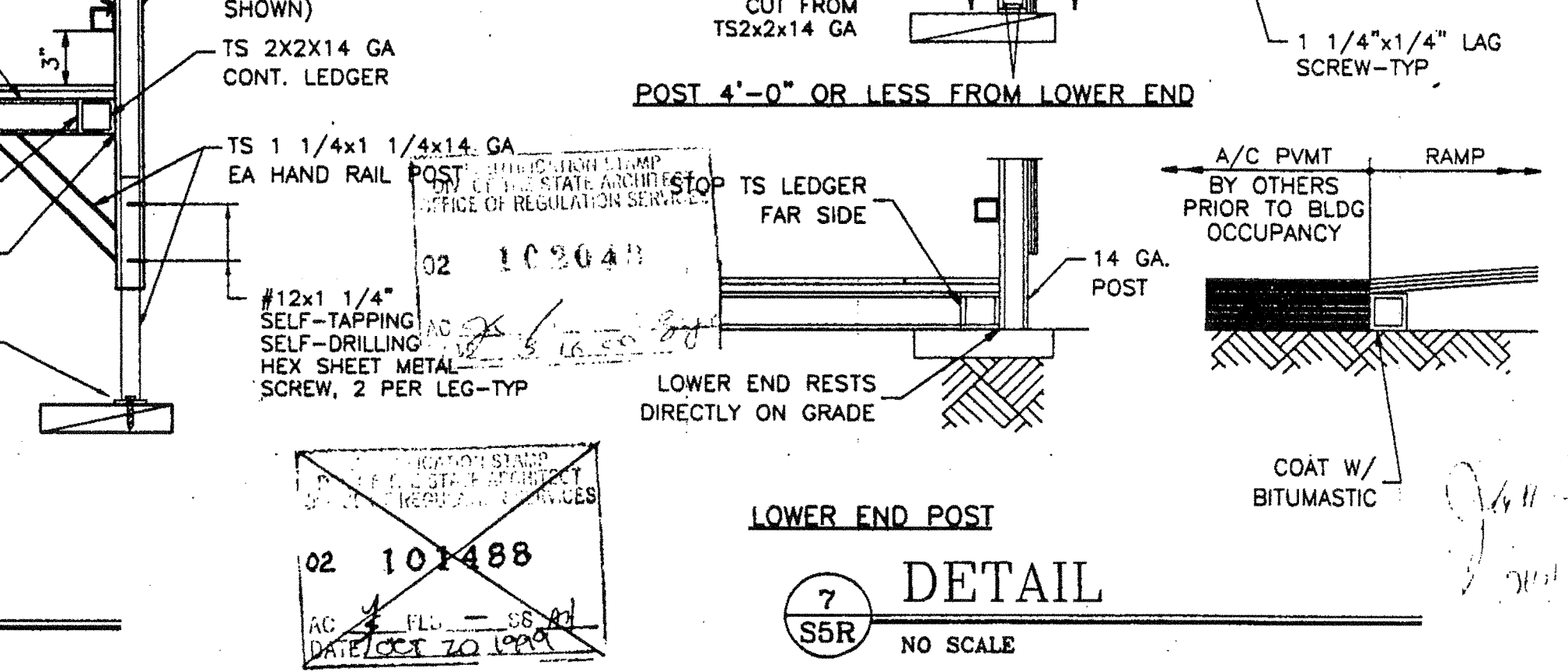
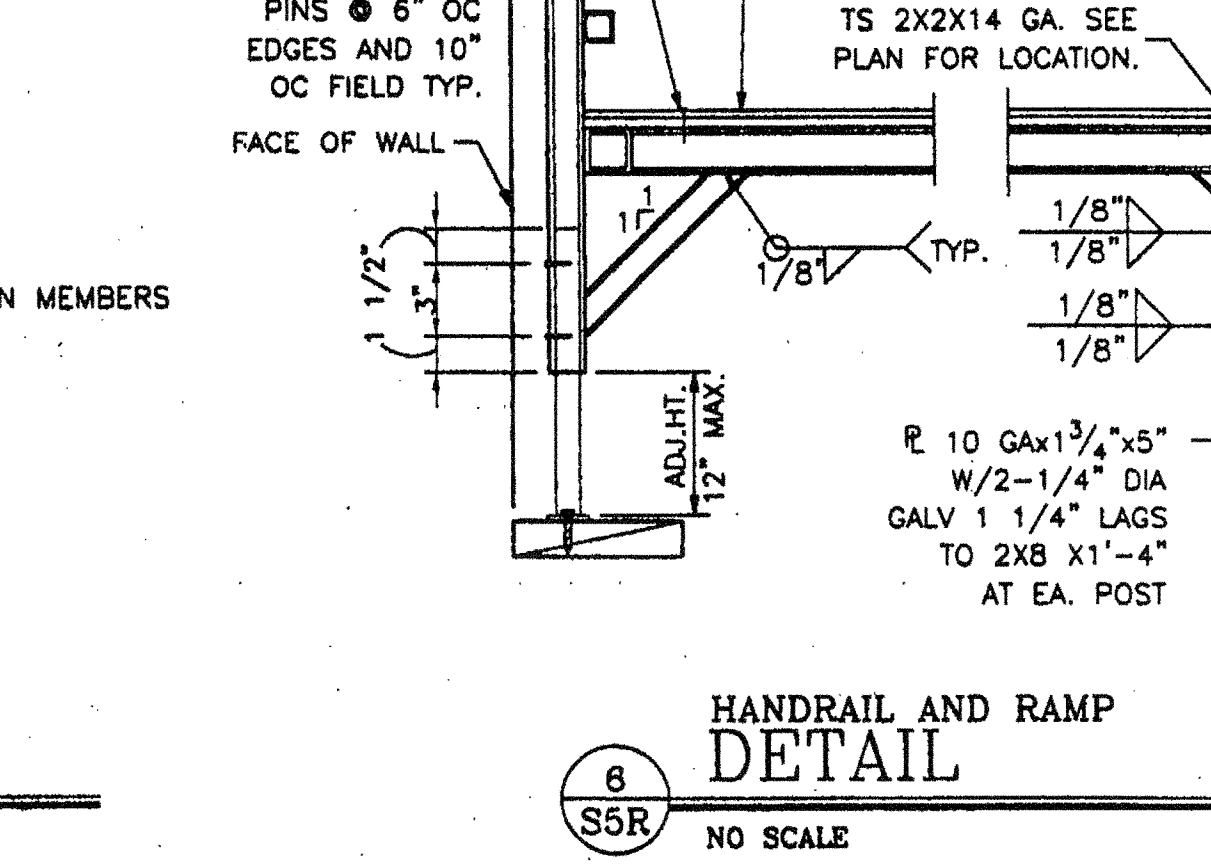
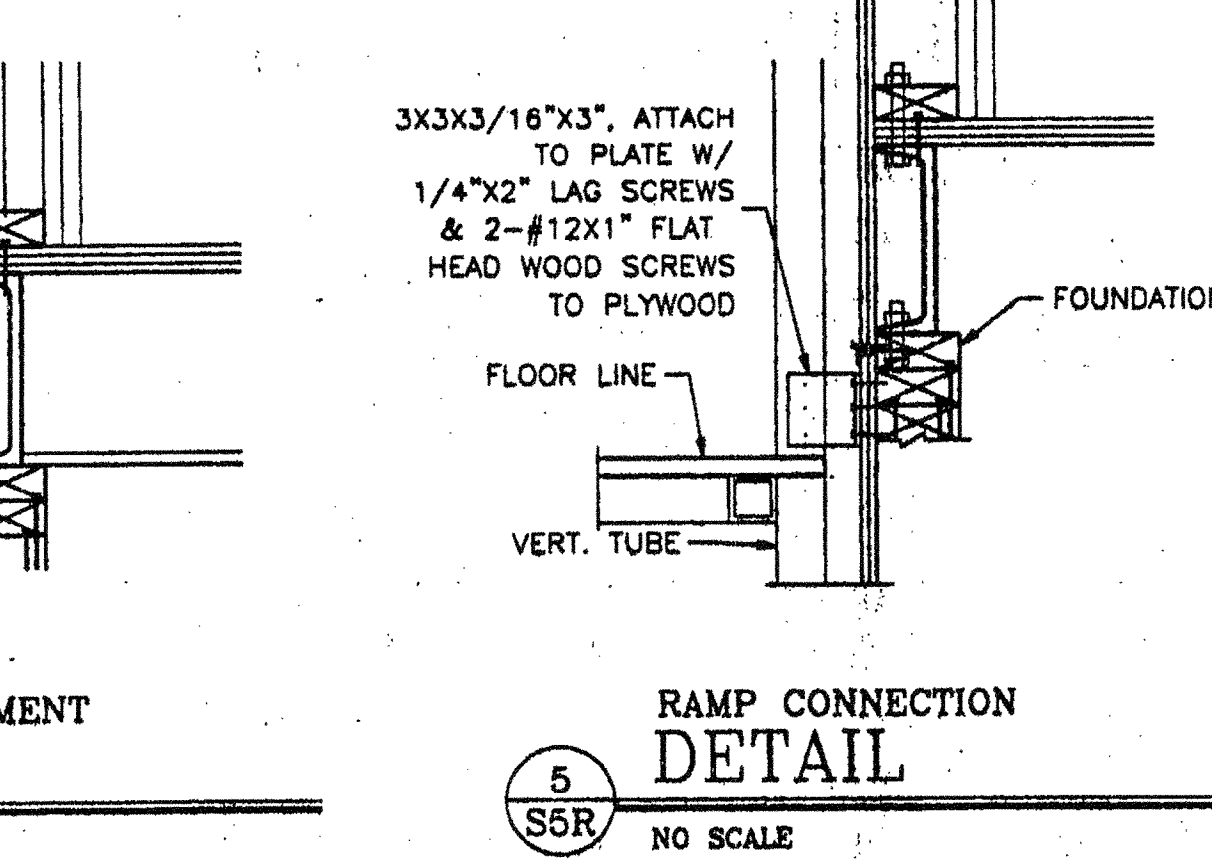
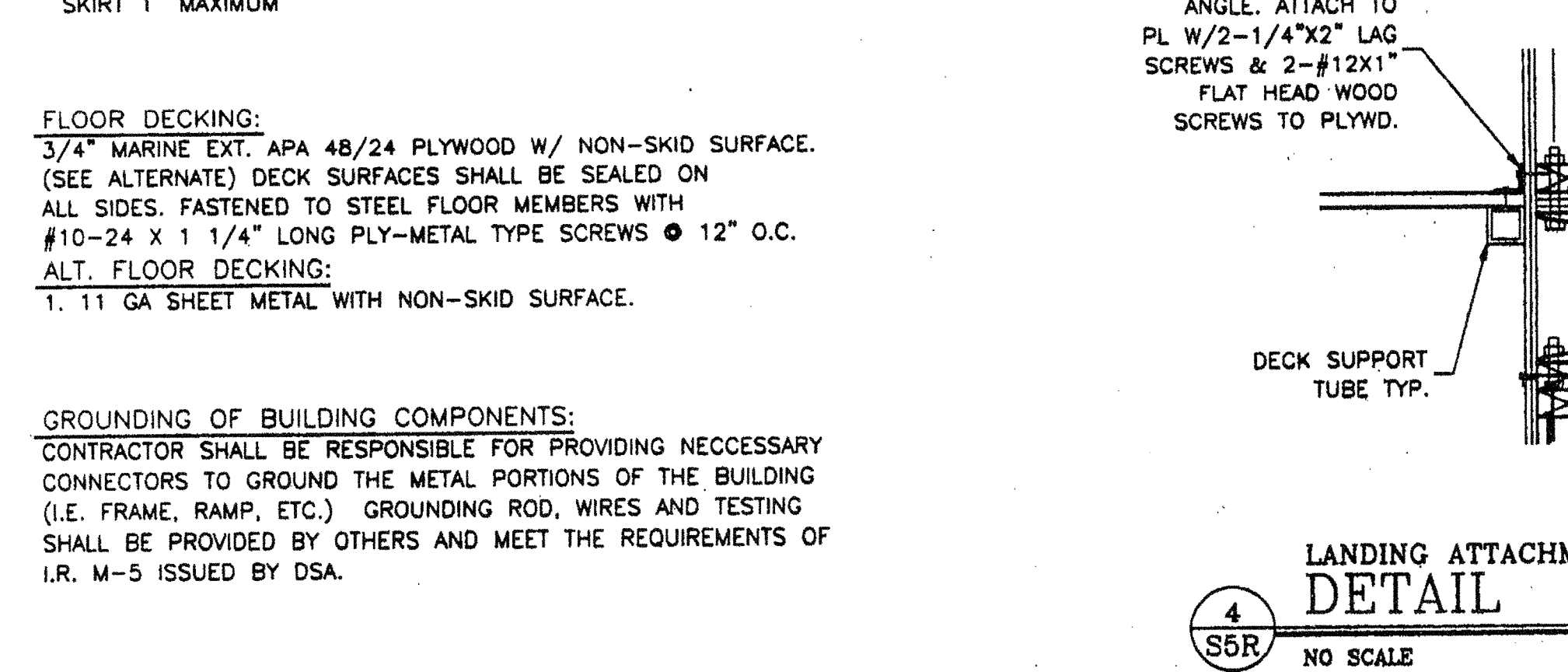
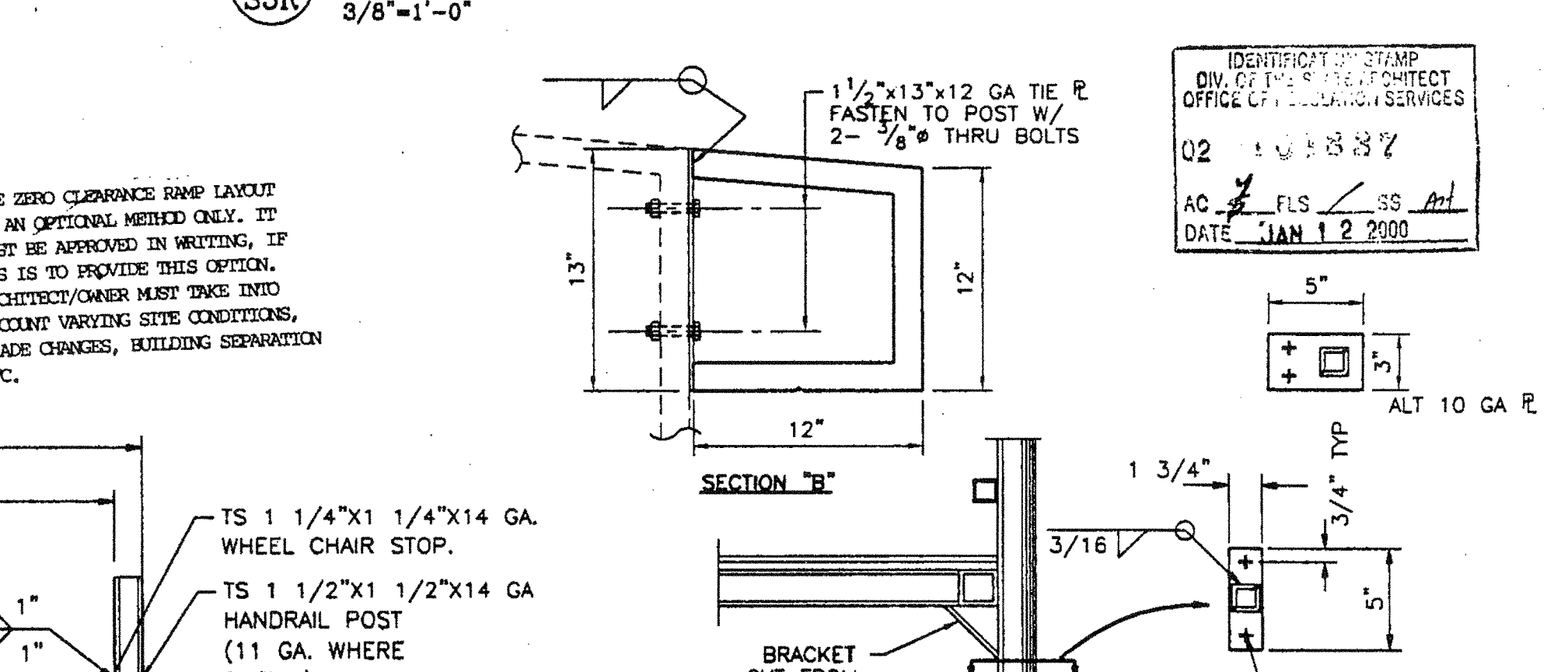
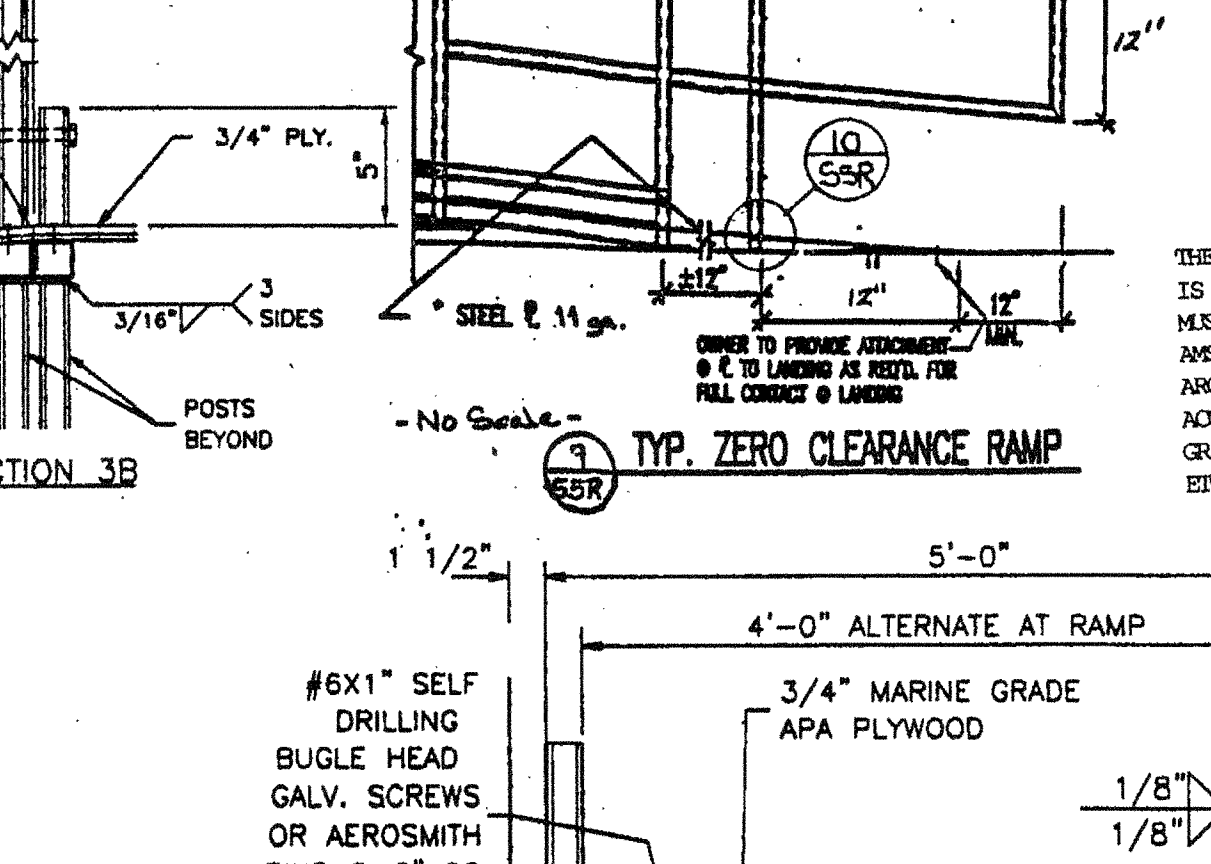
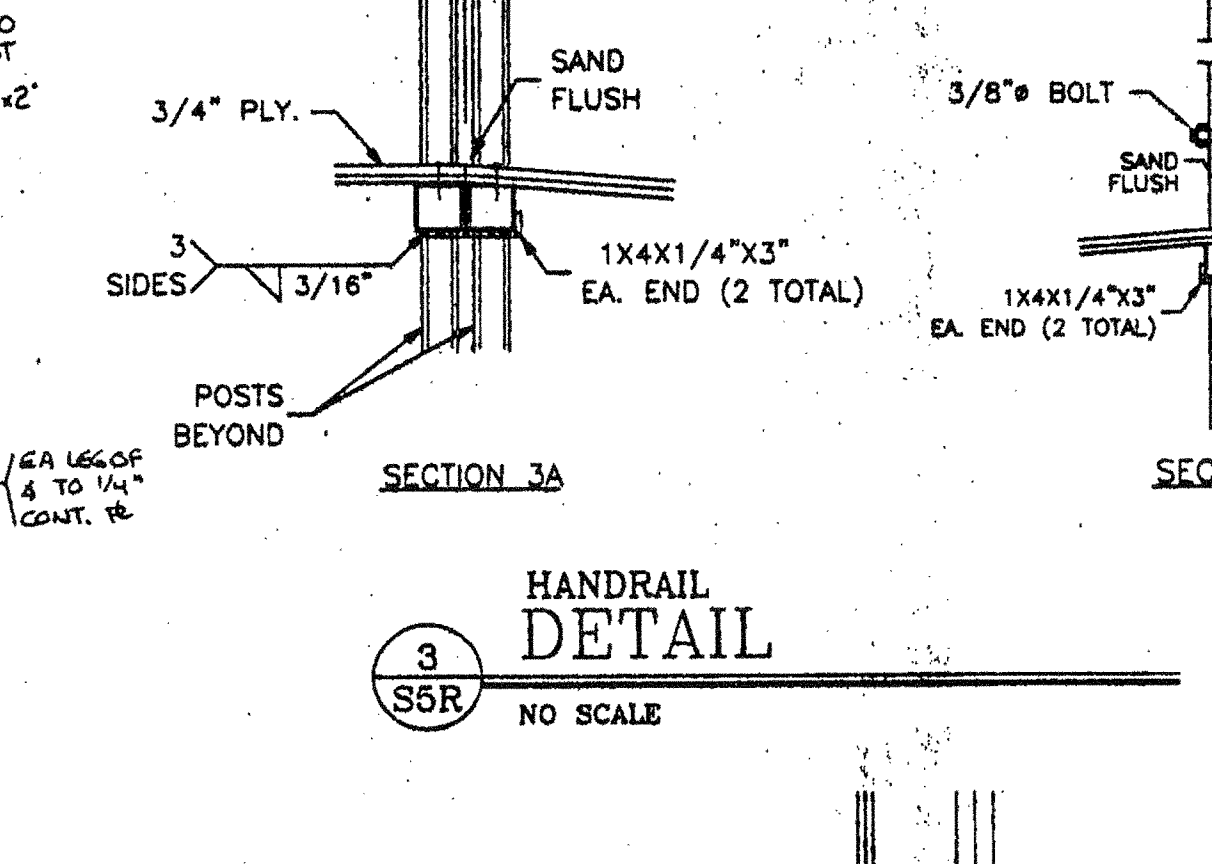
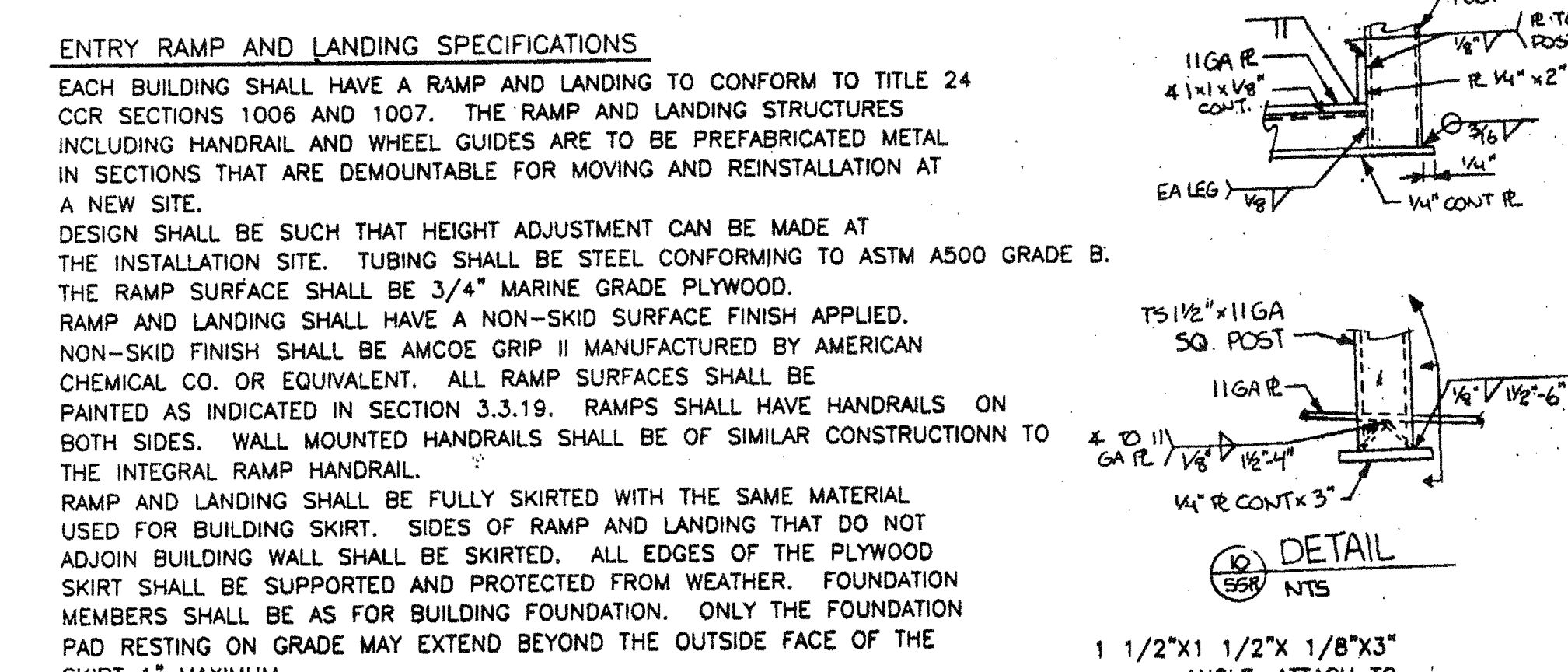
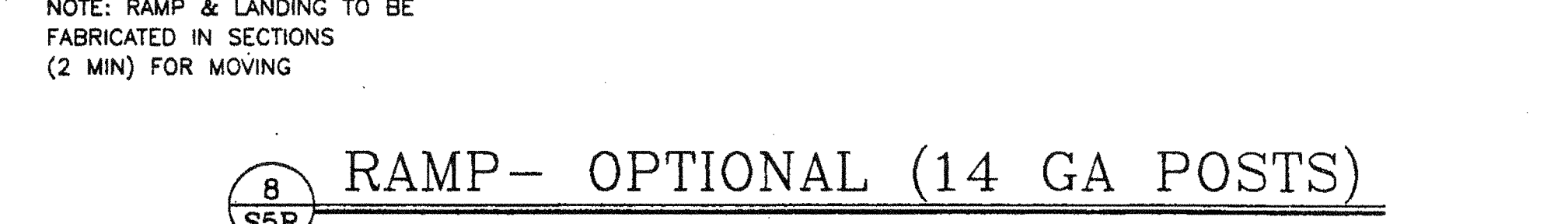
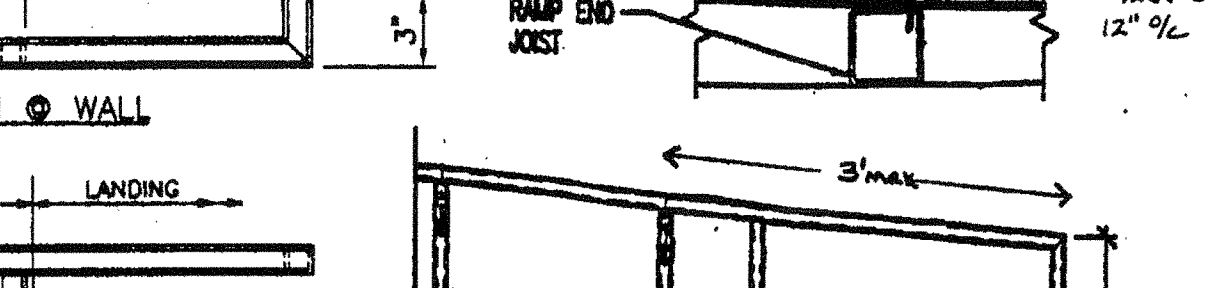
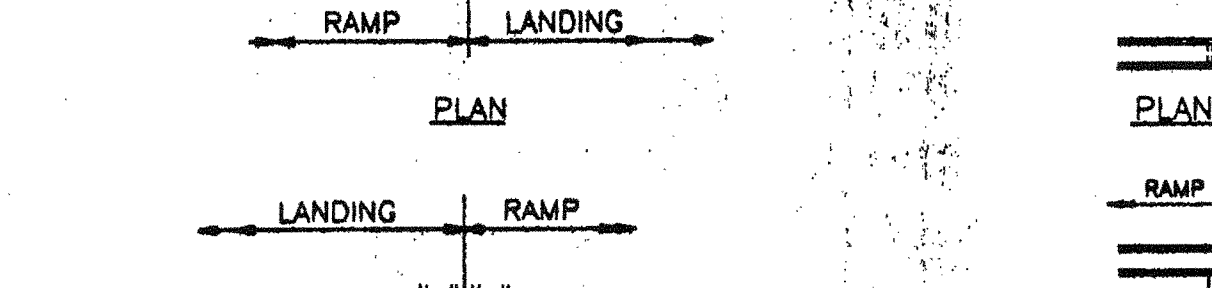
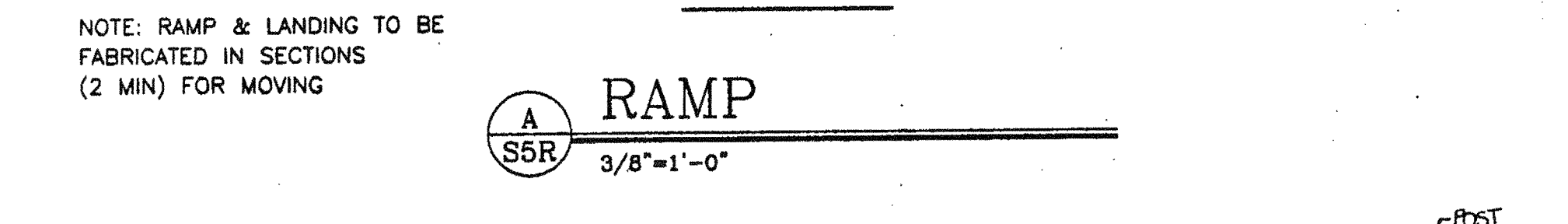
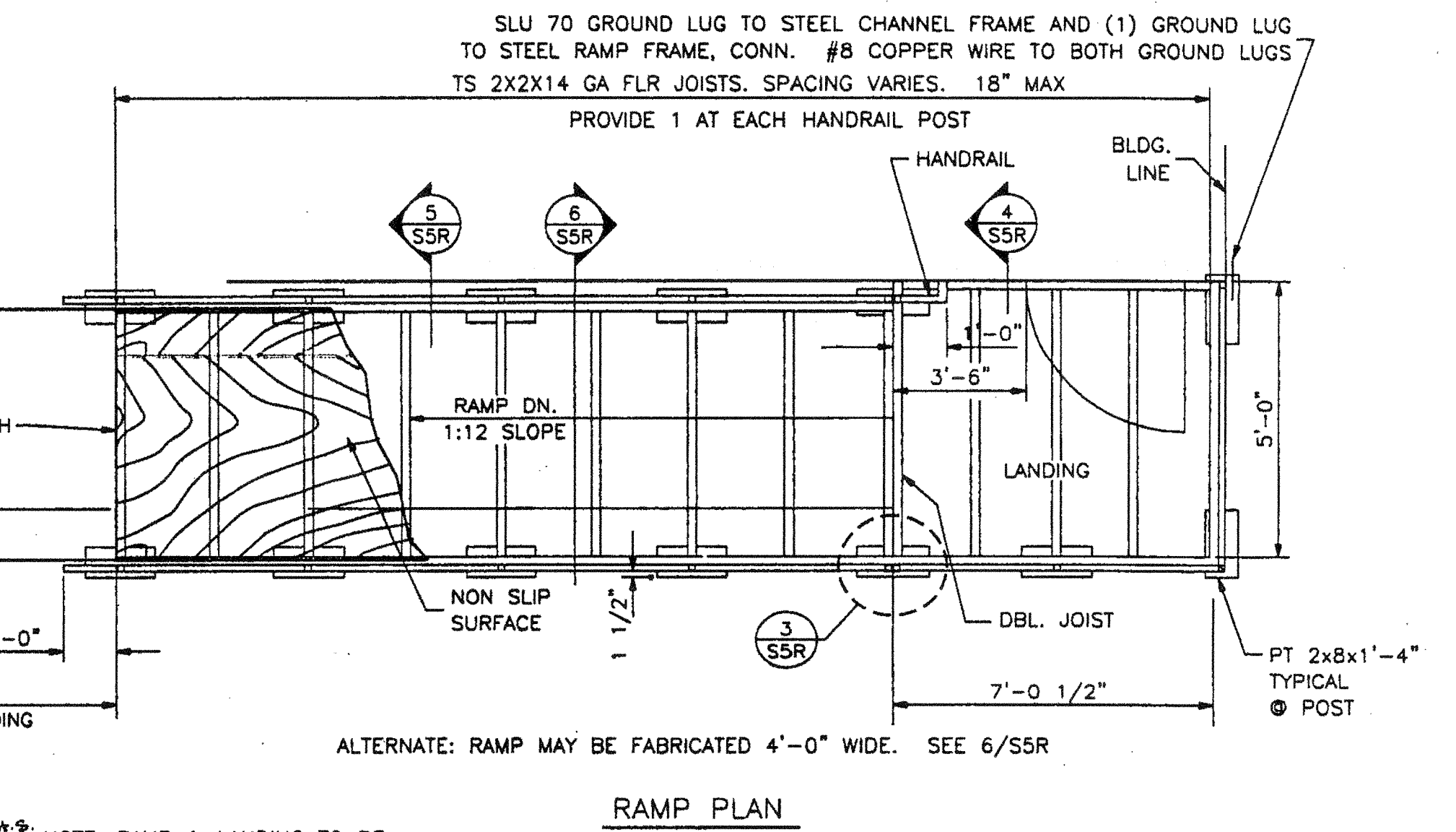
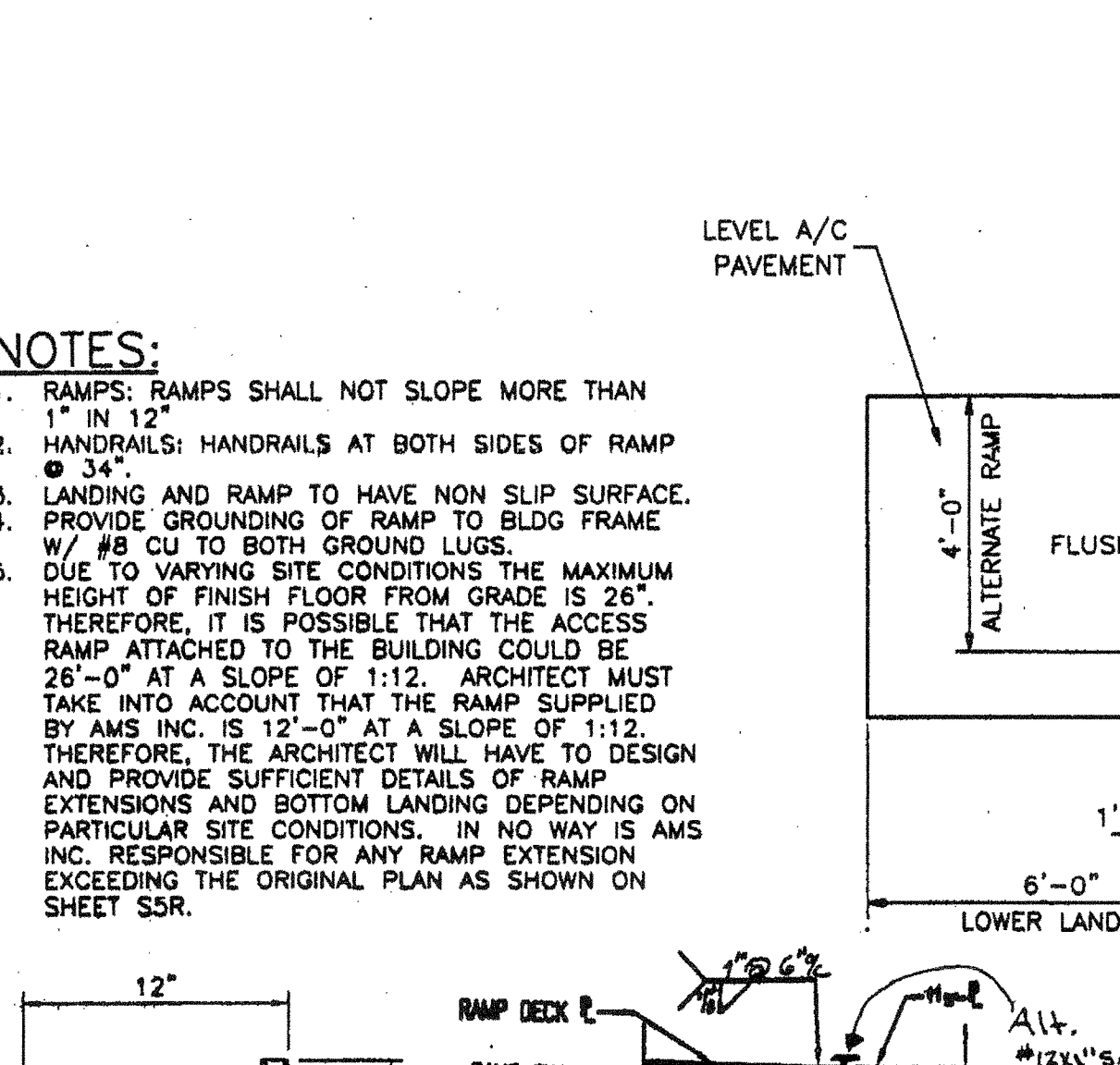
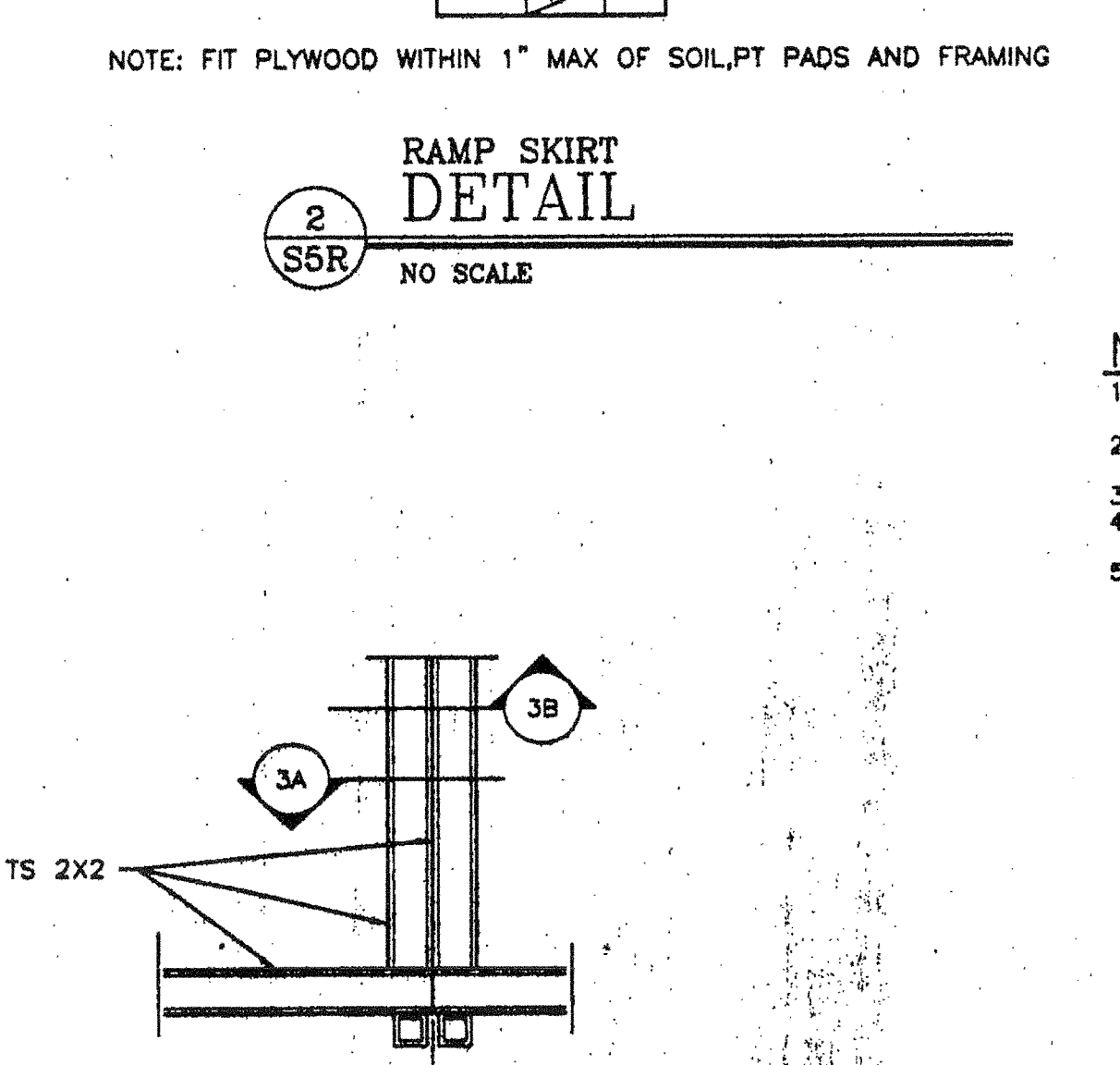
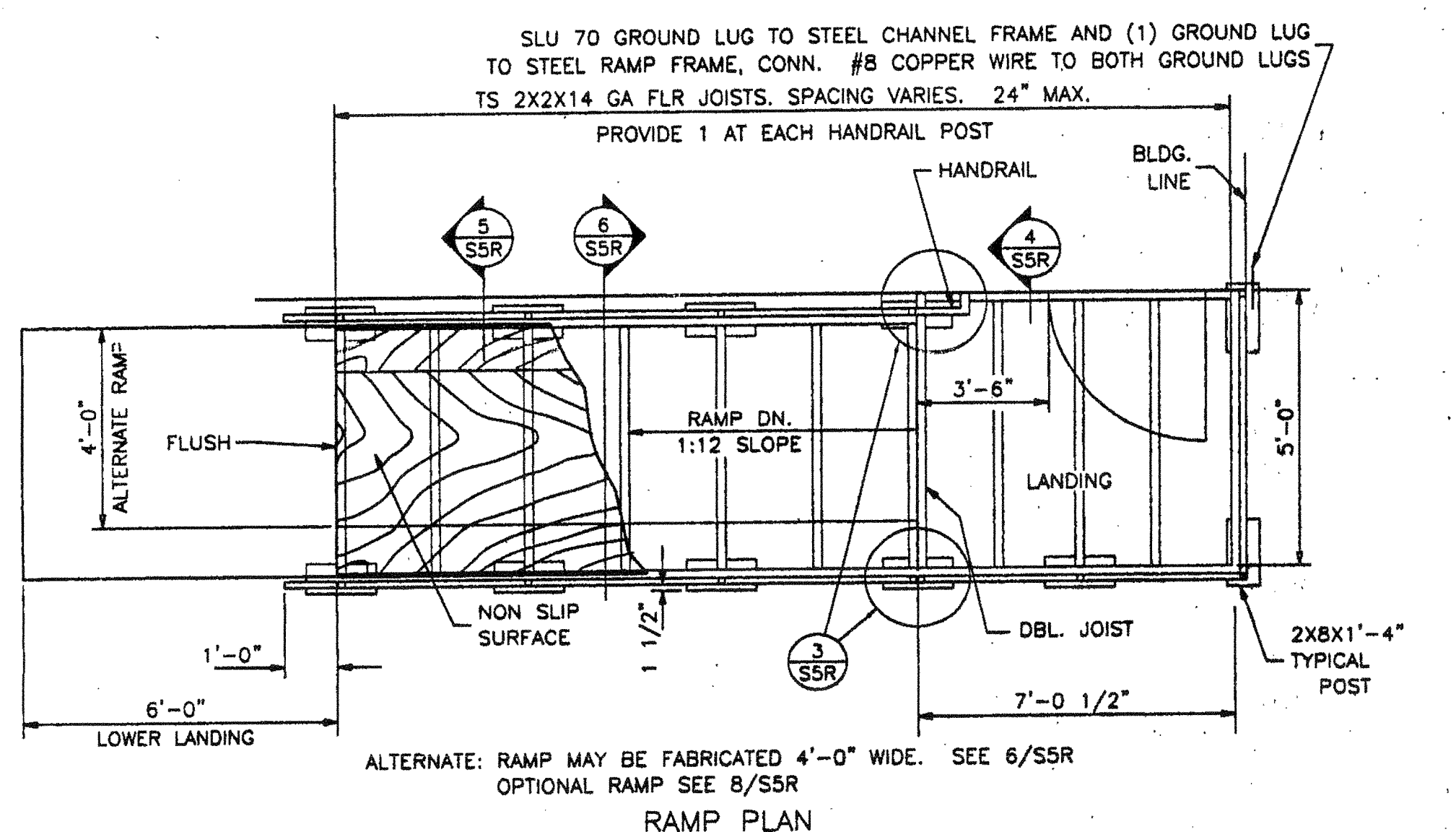
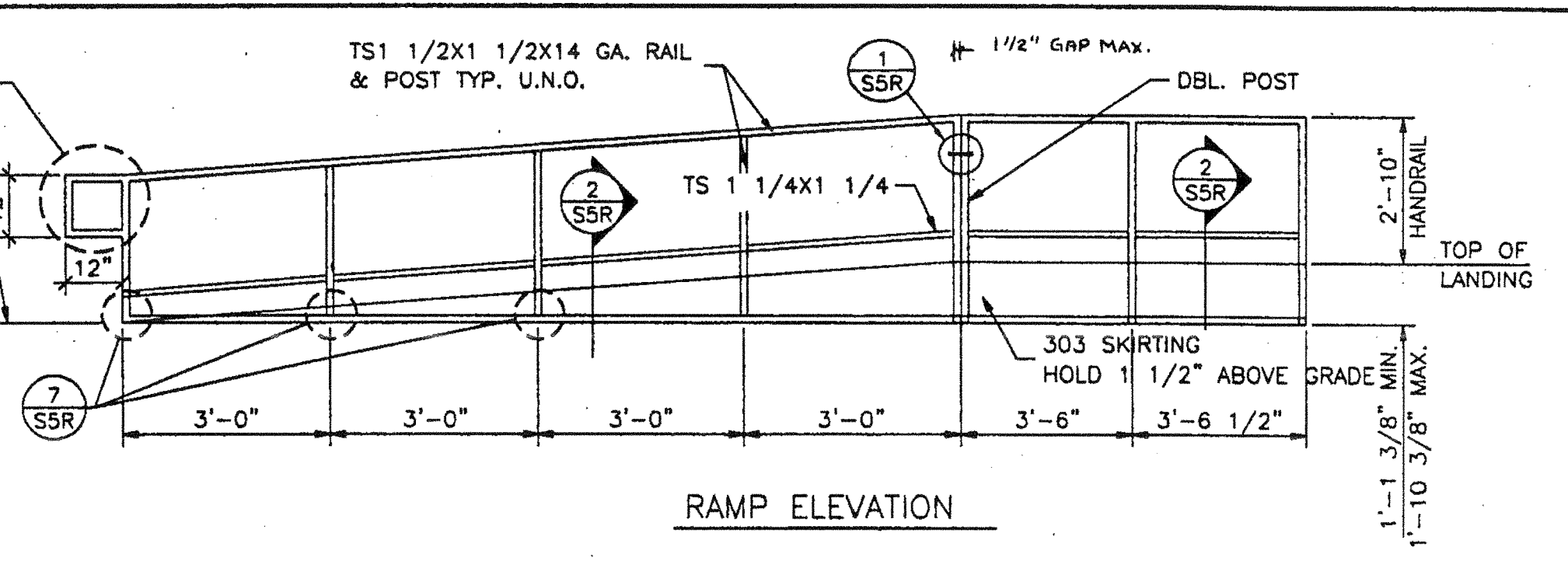
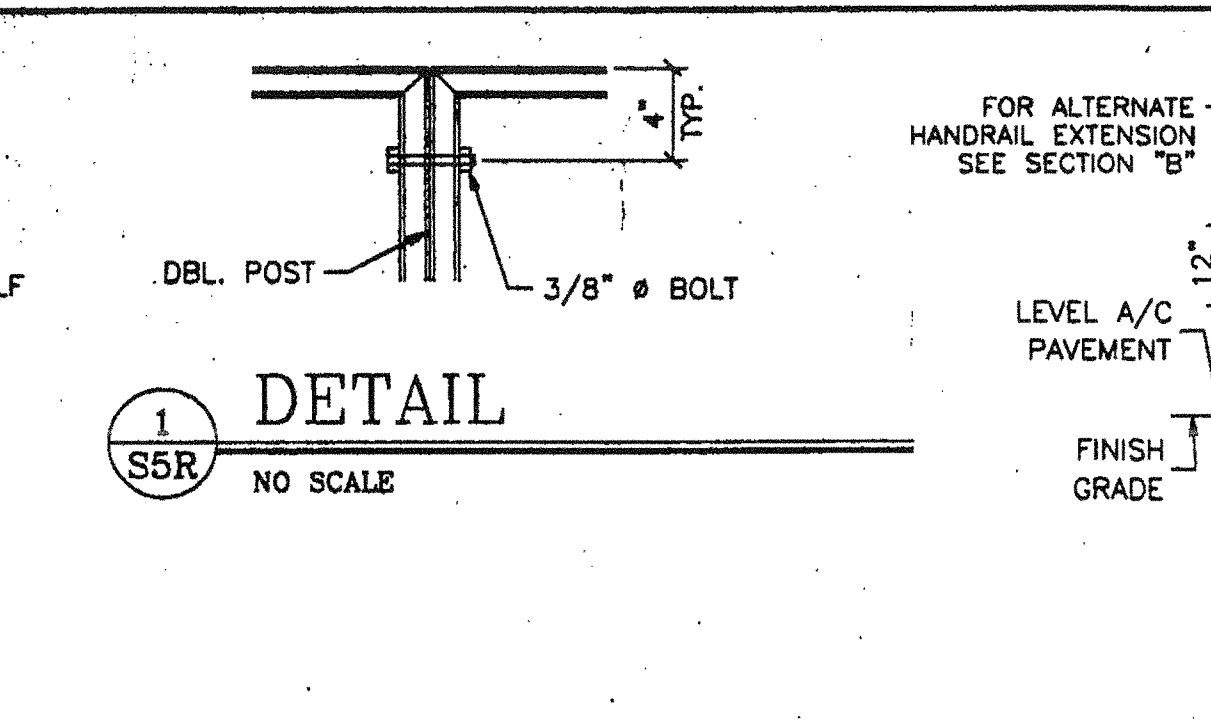
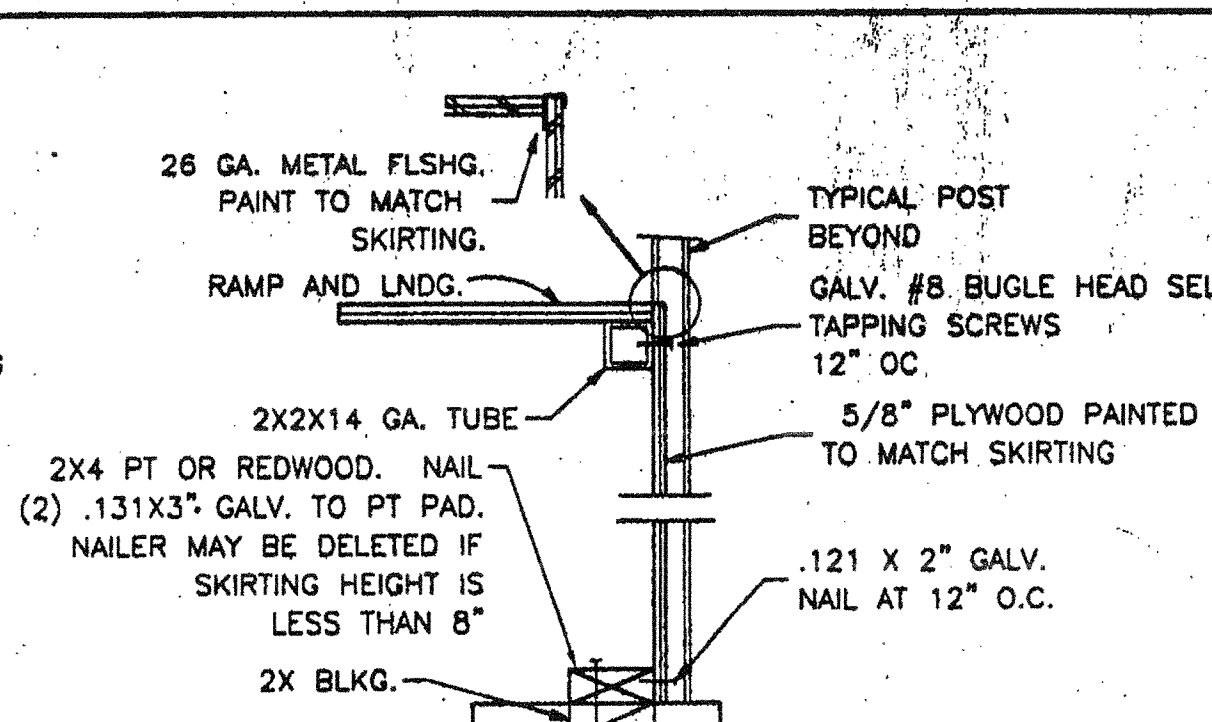
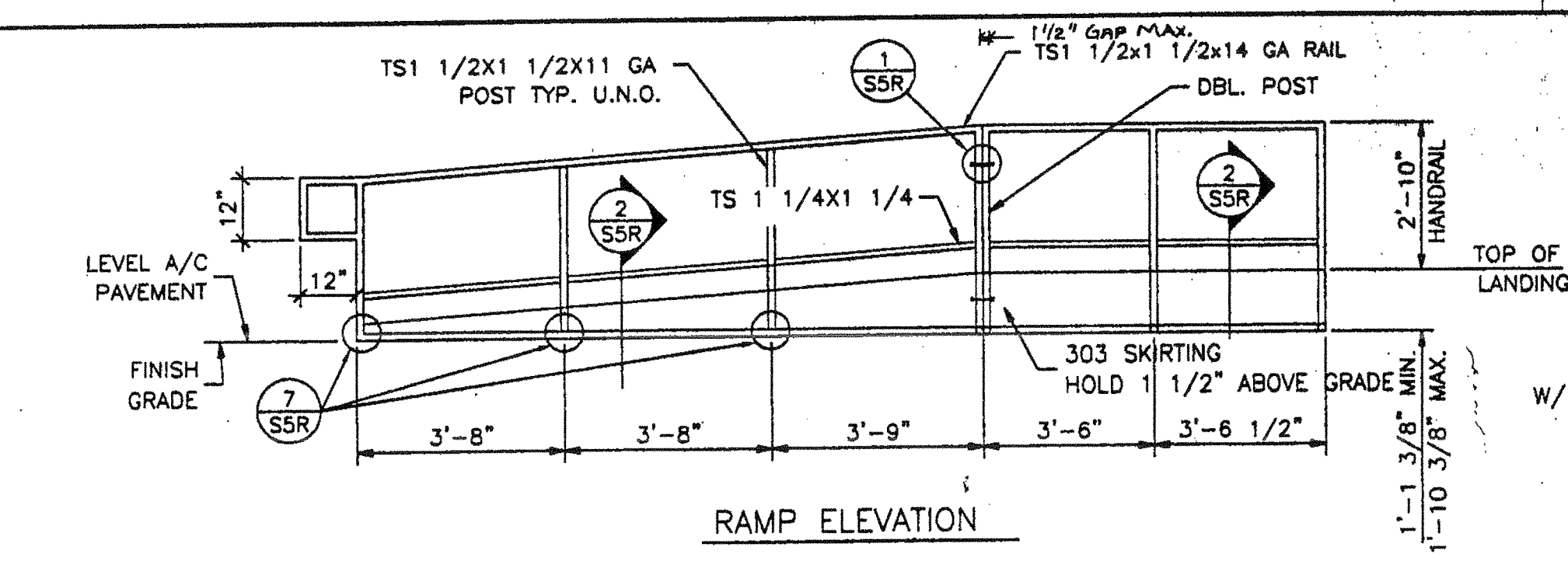
24 x 40
 RELOCATABLE
 CLASSROOM



CUSTOMER: _____
 DATE: 12/27/99
 SCALE: AS NOTED
 DRAWN BY: PWD
 DESIGNED BY: MDB
 CHECKED BY: KAL
 SERIAL NO. _____

REVISIONS					
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No.
 99100
 SHEET No.
 S4



NOTE: RAMP & LANDING TO BE FABRICATED IN SECTIONS (2 MIN) FOR MOVING

ALTERNATE: RAMP MAY BE FABRICATED 4'-0" WIDE. SEE 6/S5R
OPTIONAL RAMP SEE 8/S5R

NOTE: FIT PLYWOOD WITHIN 1" MAX OF SOIL/PT PADS AND FRAMING

NOTES:
1. RAMP: RAMP SHALL NOT SLOPE MORE THAN 1" IN 12"
2. HANDRAILS: HANDRAILS AT BOTH SIDES OF RAMP @ 34"
3. LANDING AND RAMP TO HAVE NON SLIP SURFACE.
4. PROVIDE GROUNDING OF RAMP TO BLDG FRAME W/ #8 CU TO BOTH GROUND LUGS.
5. DUE TO VARYING SITE CONDITIONS THE MAXIMUM HEIGHT OF FINISH FLOOR FROM GRADE IS 26". THEREFORE, IT IS POSSIBLE THAT THE ACCESS RAMP ATTACHED TO THE BUILDING COULD BE 26'-0" AT A SLOPE OF 1:12. ARCHITECT MUST TAKE INTO ACCOUNT THAT THE RAMP SUPPLIED BY AMS INC. IS 12'-0" AT A SLOPE OF 1:12. THEREFORE, THE ARCHITECT WILL HAVE TO DESIGN AND PROVIDE SUFFICIENT DETAILS OF RAMP EXTENSIONS AND BOTTOM LANDING DEPENDING ON PARTICULAR SITE CONDITIONS. IN NO WAY IS AMS INC. RESPONSIBLE FOR ANY RAMP EXTENSION EXCEEDING THE ORIGINAL PLAN AS SHOWN ON SHEET SSR.

NOTE: RAMP & LANDING TO BE FABRICATED IN SECTIONS (2 MIN) FOR MOVING

ALTERNATE: RAMP MAY BE FABRICATED 4'-0" WIDE. SEE 6/S5R

ENTRY RAMP AND LANDING SPECIFICATIONS
EACH BUILDING SHALL HAVE A RAMP AND LANDING TO CONFORM TO TITLE 24 COR SECTIONS 1006 AND 1007. THE RAMP AND LANDING STRUCTURES INCLUDING HANDRAIL AND WHEEL GUIDES ARE TO BE PREFABRICATED METAL IN SECTIONS THAT ARE DEMOUNTABLE FOR MOVING AND REINSTALLATION AT A NEW SITE.
DESIGN SHALL BE SUCH THAT HEIGHT ADJUSTMENT CAN BE MADE AT THE INSTALLATION SITE. TUBING SHALL BE STEEL CONFORMING TO ASTM A500 GRADE B. THE RAMP SURFACE SHALL BE 3/4" MARINE GRADE PLYWOOD.
RAMP AND LANDING SHALL HAVE A NON-SKID SURFACE FINISH APPLIED. NON-SKID FINISH SHALL BE AMCOE GRIP II MANUFACTURED BY AMERICAN CHEMICAL CO. OR EQUIVALENT. ALL RAMP SURFACES SHALL BE PAINTED AS INDICATED IN SECTION 3.3.19. RAMP SHALL HAVE HANDRAILS ON BOTH SIDES. WALL MOUNTED HANDRAILS SHALL BE OF SIMILAR CONSTRUCTION TO THE INTEGRAL RAMP HANDRAIL.
RAMP AND LANDING SHALL BE FULLY SKIRTED WITH THE SAME MATERIAL USED FOR BUILDING SKIRT. SIDES OF RAMP AND LANDING THAT DO NOT ADJOIN BUILDING WALL SHALL BE SKIRTED. ALL EDGES OF THE PLYWOOD SKIRT SHALL BE SUPPORTED AND PROTECTED FROM WEATHER. FOUNDATION MEMBERS SHALL BE AS FOR BUILDING FOUNDATION. ONLY THE FOUNDATION PAD RESTING ON GRADE MAY EXTEND BEYOND THE OUTSIDE FACE OF THE SKIRT 1" MAXIMUM.

FLOOR DECKING:
3/4" MARINE EXT. APA 48/24 PLYWOOD W/ NON-SKID SURFACE. (SEE ALTERNATE) DECK SURFACES SHALL BE SEALED ON ALL SIDES. FASTENED TO STEEL FLOOR MEMBERS WITH #10-24 X 1 1/4" LONG PLY-METAL TYPE SCREWS @ 12" O.C.
ALT. FLOOR DECKING:
1. 11 GA SHEET METAL WITH NON-SKID SURFACE.

GROUNDING OF BUILDING COMPONENTS:
CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING NECESSARY CONNECTORS TO GROUND THE METAL PORTIONS OF THE BUILDING (I.E. FRAME, RAMP, ETC.) GROUNDING ROD, WIRES AND TESTING SHALL BE PROVIDED BY OTHERS AND MEET THE REQUIREMENTS OF I.R. M-5 ISSUED BY DSA.

THIS ZERO CLEARANCE RAMP LAYOUT IS AN OPTIONAL METHOD ONLY. IT MUST BE APPROVED IN WRITING. IF THIS IS TO PROVIDE THIS OPTION, ARCHITECT/OWNER MUST TAKE INTO ACCOUNT VARYING SITE CONDITIONS, GRADE CHANGES, BUILDING SERRATION ETC.

24 x 40 RELOCATABLE CLASSROOM

American Modular Systems

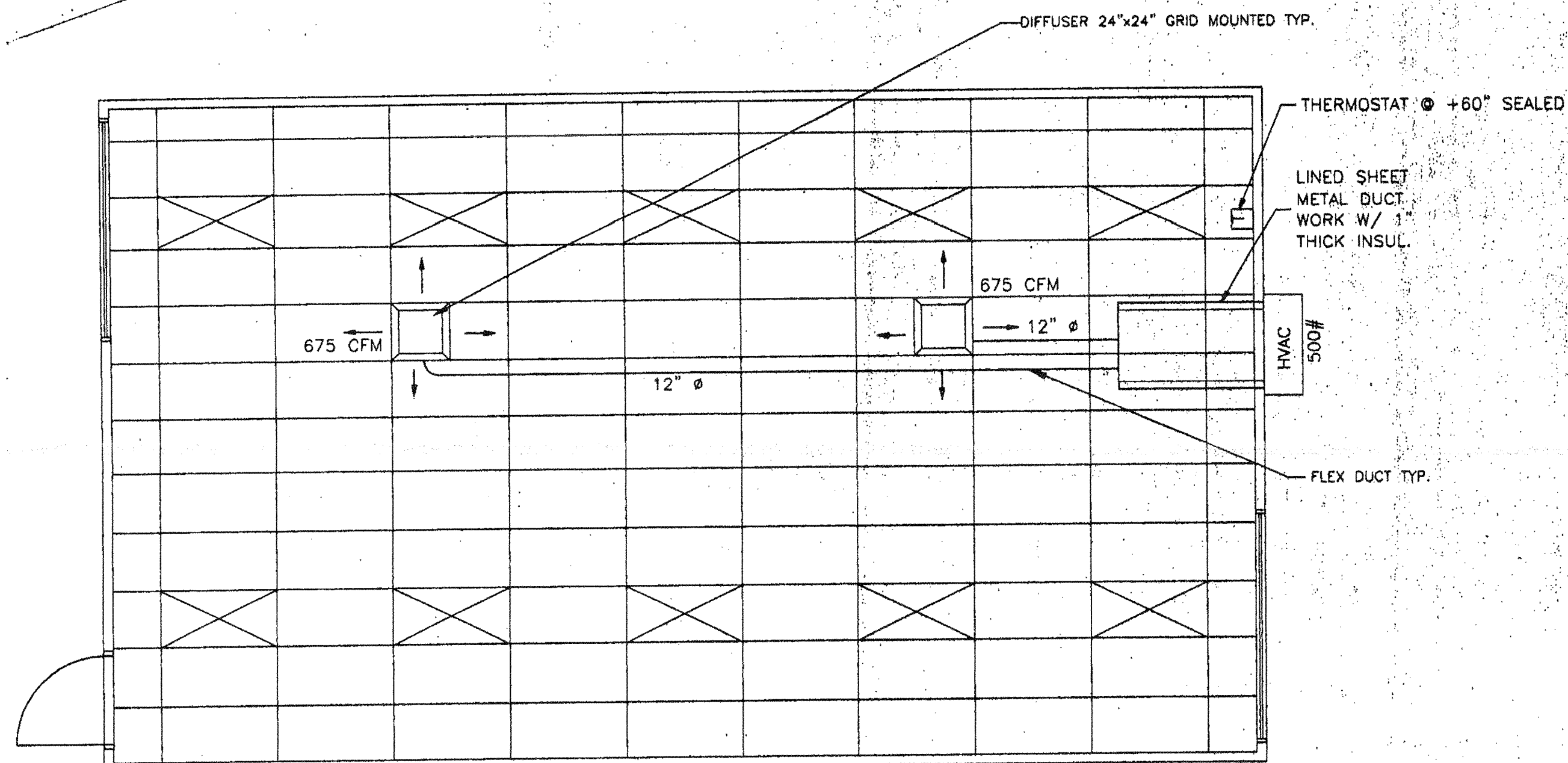
CUSTOMER: _____

DATE: 10/18/99
SCALE: AS NOTED
DRAWN BY: PWD
DESIGNED BY: MCB
CHECKED BY: KAL
SERIAL NO. _____

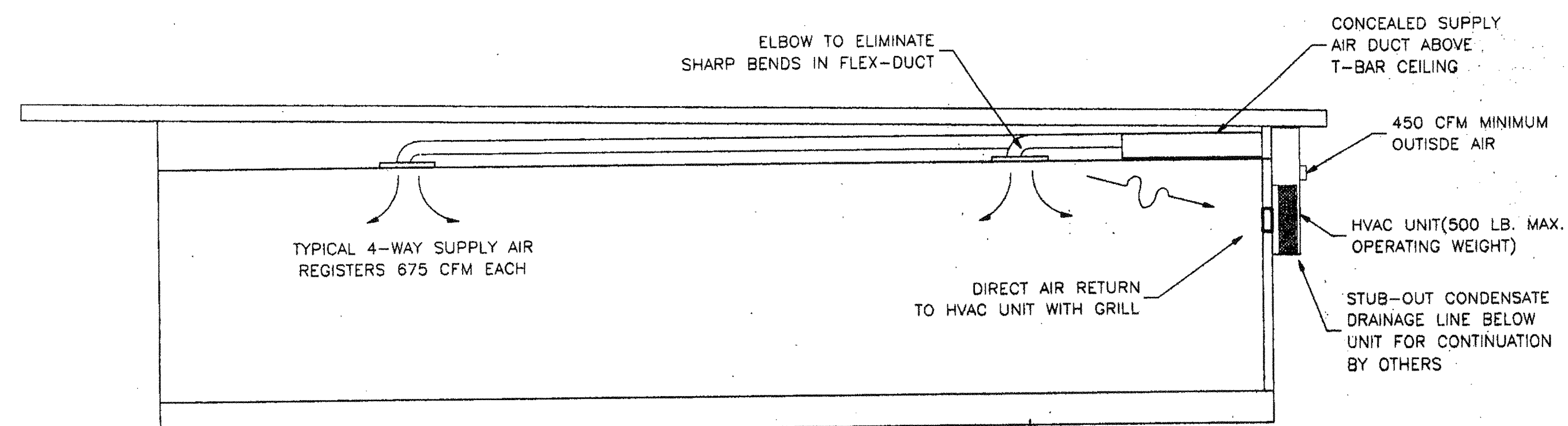
REVISIONS		REVISIONS			
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No. 99100
SHEET No. S5R

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF ARCHITECTURAL SERVICES
02 10 488
DATE: JAN 12 2000
APPL 01-117316
DATE: 1/10/18



HEAT/SUPPLY AIR DUCT LAYOUT
SCALE: 1/4"=1'-0"



HEAT/SUPPLY AIR DUCT CROSS SECTION
SCALE: 1/4"=1'-0"

DUCT SUPPORT
Flex duct to be supported with 1-1/2" wide x 26 ga. galv. strap @ max 6'-0" o.c. Attach to rafter W/2 #8 SMS @ each end.
Supply air plenum to be supported with 1-1/2" wide x 26 ga. galv. straps min. 2 per plenum.
Supply air box and diffusers to be supported with (2) 12 ga. hanger wires to box @ opposite corners.
Supply air box and diffusers to be braced with (2) 12 ga. slack wires to box @ opposite corners. Attach supply air diffusers to ceiling grid to resist a lateral load equal to the weight of the diffuser and supply air box W/2 #8 SMS.

THESE DRAWINGS COMPLY WITH THE ENERGY CONSERVATION REQUIREMENTS OF TITLE 24 OF THE STATE OF CALIFORNIA

GENERAL NOTES
HEATING VENTILATING AND AIR CONDITIONING (HVAC)
1. Heat Pump: Single package wall mounted air to air electric heat pump unit shall be rated in accordance with ARI Standards 240-77.
Reference Brands: BARD WH42A-XXXXXX
MARVAIR AVP 42 HPA-08S

All units shall be 230/208 volt, 1 phase system, UL tested & approved or comparable and meet current energy standards.

- A.) The system shall maintain an automatically controlled indoor classroom temperature of 78 degrees F. When the outdoor dry bulb temperature varies between 100 degrees F. in the summer.
 - B.) The system must maintain the above temperature when the damper is adjusted to use approximately one third fresh air.
2. Ductwork.
- A.) Construct all ductwork of galvanized sheet metal in accordance with C.M.C., Ashrae Guide Equipment volume and Smacna Low Velocity Duct Construction manual latest editions. All ductwork shall be insulated with 1" thick fiberglass duct wrap with vapor barrier. Provide 1" duct attenuation at all ductwork within 2'-0" of HVAC unit.
 - B.) Non-metallic ductwork option: In accessible concealed portions of duct system rigid 1" fiberglass or insulated flex-duct with vapor barrier may be substituted for sheet metal ductwork. All ductwork within 5' of the HVAC unit and all interface connections shall be metal. Ductwork and reinforcement shall be designed for 2" static pressure. Reference Brands: Owens-Corning fiberglass ductboard, 1" thick, and Micro-aire, TYPE 475. Non-metallic ductwork shall conform to NFPA 90-A and SMACNA Class 1 rating.
3. Air duct insulation and linings shall comply with flame spread less than or equal to 25, smoke generation less than or equal to 50.
4. Supply air diffusers shall be 675 CFM max. 15"x15" neck, steel, rigid 1" fiberglass or flexduct ductwork specifically designed to provide air thermal cooling systems. 24"x8"x1" Micro-Aire type #475 Owens-Corning, Knaf, Certainteed, or equal and 90-B UL #131 test, class 1 rating with "SMACNA".
5. Registers and diffusers: Provide three (Min) 4-way throw air diffusers as manufactured Carnes, Titus, Hart and Cooley, Metalaire, Shoemaker, Barber-Coleman or Krueger commercial grade grills and registers.
6. Air conditioning controls.
Thermostat: Provide electronic programmable thermostat. Thermostat shall have the following functions:
A.) 5 and 2 week/day/weekend programming with 4 separate time/temperature setting for 24-hour period.
B.) Key board lock-out switch.
C.) Programmable display.
D.) 2-hour override minimum.
E.) Status Indicated Led's.
F.) Battery back-up.
Provide locking clear thermostat cover with thermostat cover with access hole for program override. White Rodgers IF92 @ +60" SEALED.
7. Thermal insulation
A.) Roof Insulation: R-19 Unfaced.
B.) Walls Insulation: R-11 Kraft Faced.
C.) Floors Insulation: R-11 Kraft Faced.
Flame spread and smoke development shall conform to California Building Code sec. 707.
8. Factory-made air ducts. Factory-made air ducts shall be approved for the use intended or shall conform to the requirements of U.M.C. Standard No. 6-1. Each portion of a factory-made air duct system shall be identified by the manufacturer with a label or other suitable identification indicating compliance with U.M.C. Standard No. 6-1 and its class designation. These ducts shall be listed and shall be installed in accordance with the terms of their listing and the requirements

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DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 01-117316
DATE 11/10/18

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02 102043
AC - FLS R/S SS
DATE 3/16/18

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02 101837
AC - FLS R/S SS
DATE JAN 12 2000

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02 101837
AC - FLS R/S SS
DATE OCT 20 1999

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems
333 EAST CARNEGIE CT. MANTECA, CALIFORNIA 95337
PHONE (209) 825-1921 FAX (209) 825-7018

CUSTOMER: _____

MECHANICAL PLAN & NOTES

DATE: 10-19-99
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
SERIAL NO. _____

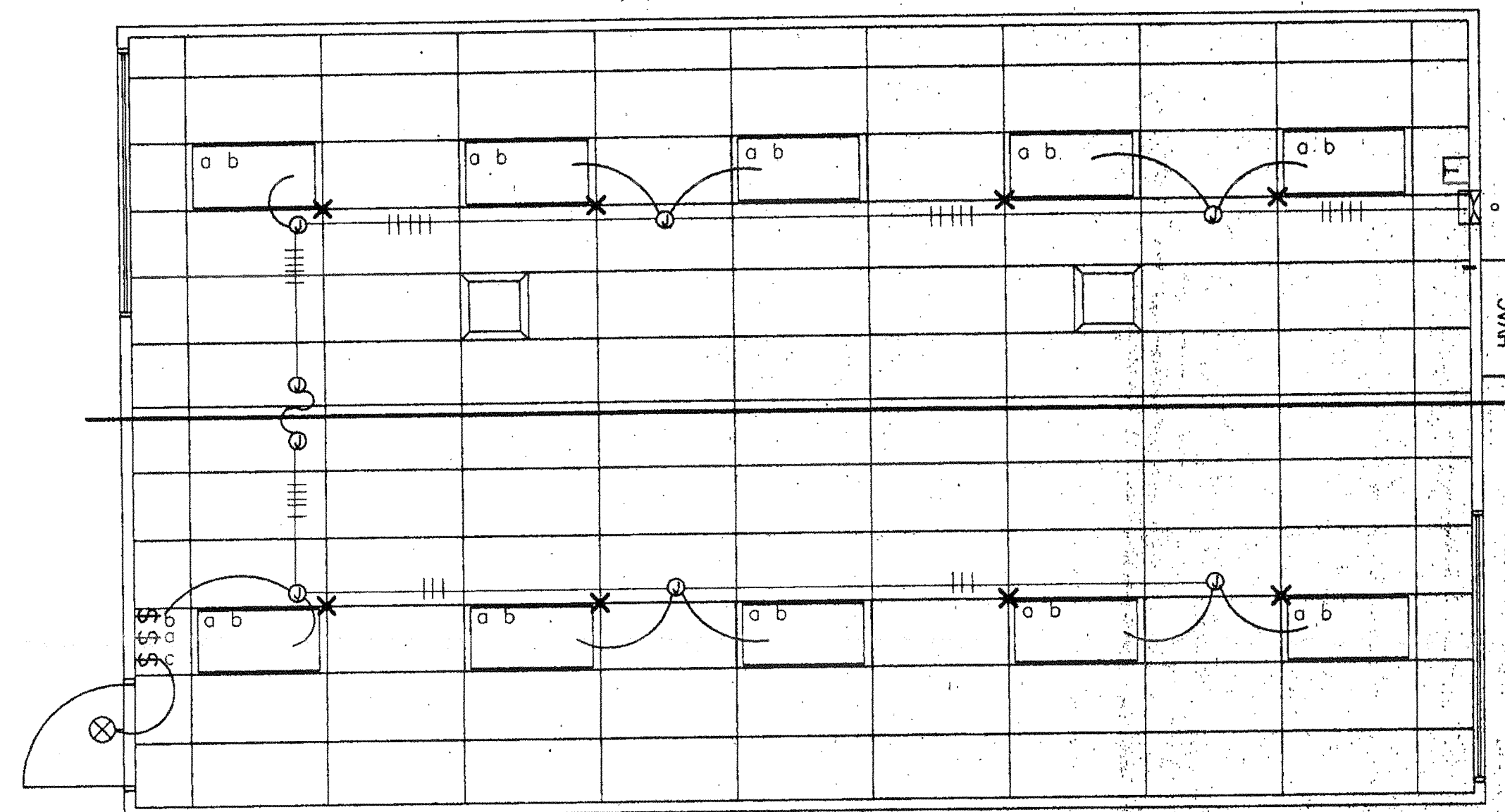
REVISIONS					
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
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PROJECT No. _____

SHEET No. **M 1**

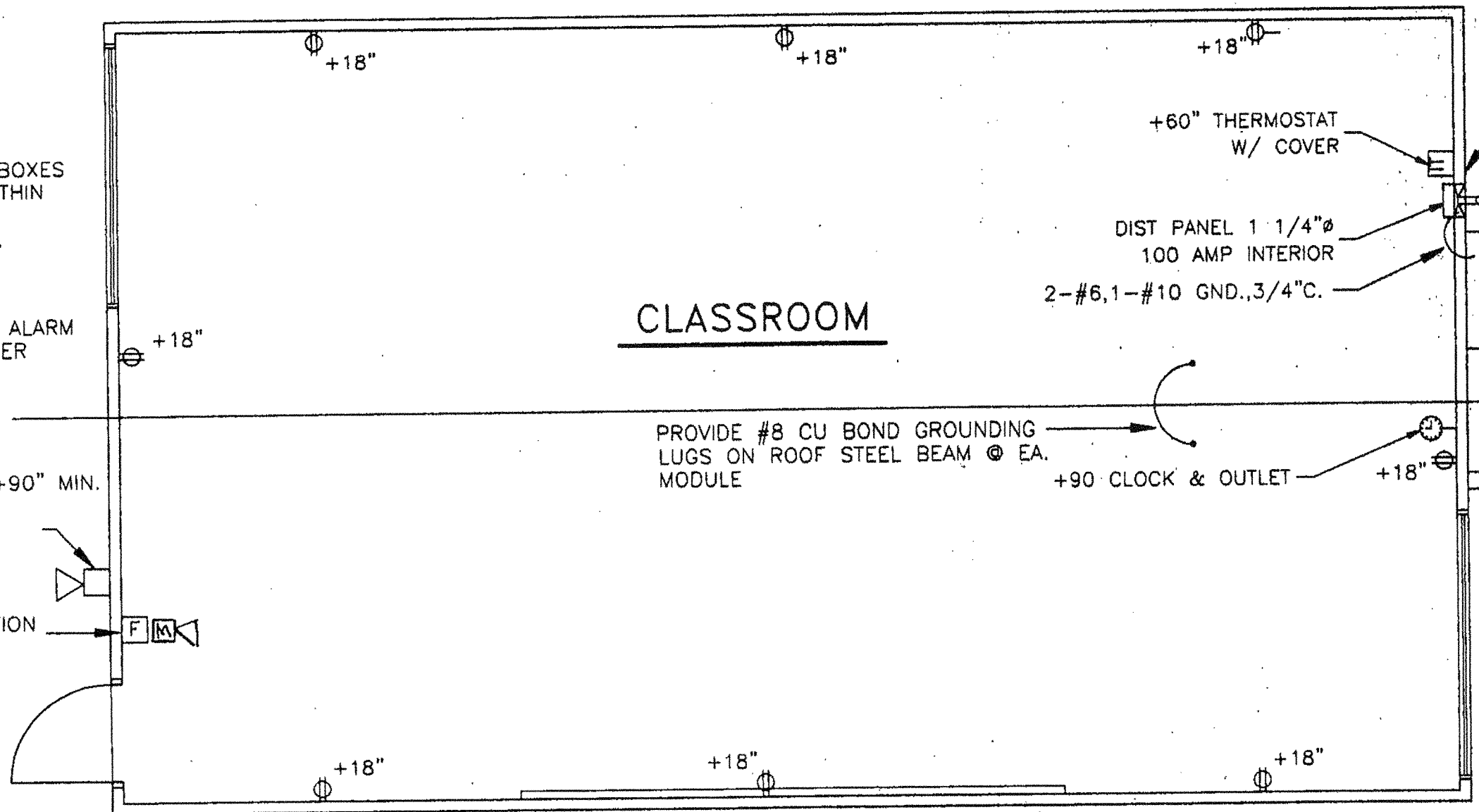
STANDARD ELECTRICAL SYMBOLS

- FLUORESCENT LIGHTING FIXTURE - SURFACE MOUNTED.
- FLUORESCENT LIGHTING FIXTURE - RECESSED.
- FLUORESCENT LIGHTING FIXTURE - WALL MOUNTED (EXTERIOR).
- INCANDESCENT LIGHTING FIXTURE - WALL MOUNTED (INTERIOR).
- DUPLEX WALL CONVENIENCE OUTLETS - 18"
- SINGLE POLE LIGHT SWITCHES - 48" HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- ELECTRICAL CROSSOVER J-BOXES ABOVE T-BAR CEILING #1-4"x1" #22 4"x2"
- WALL CLOCK OUTLET WITH POWER OUTLET - 84"
- SWITCH SUBSCRIPTS - 0=DEVICE CONTROLLED.
- 15 AMP DUPLEX RECEPTACLE - 18"
- JUNCTION BOX - SIZE AND TYPE AS REQUIRED.
- PANELBOARD - SEE SCHEDULE.
- TERMINAL CABINET - SIZE AND TYPE AS NOTED.
- CONDUIT CONCEALED IN CEILING OR WALL.
- CONDUIT CONCEALED BELOW FLOOR OR GRADE.
- HOMERUN TO RESPECTIVE PANEL TO TERMINAL.
- INDICATES 14 (GREEN) GROUND WIRE, OTHER SIZES AS INDICATED.
- BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION IS A 2#14 WIRE CIRCUIT, FOR MORE THAN 2#14 WIRES AS FOLLOWS, #3-#14.
- #14-#14 ETC. FOR OTHER SIZES AS FOLLOWS, #3-#10, #4-#6 ETC.
- NOTE: FIXTURE IDENTIFICATION - LETTER INDICATES TYPE.
- N.I.E.S. ABBREV. FOR NOT IN ELECTRICAL SECTION OF THESE PLANS AND SPEC'S.
- MT ABBREV. FOR EMPTY CONDUIT WITH POLY PULL CORD.
- FUSED DISCONNECT SWITCH SIZE AS REQUIRED, PROVIDE FUSES AS RECOMMENDED BY EQUIPMENT SUPPLIER.
- [W.E.F.] WALL MOUNTED EXHAUST FAN N.I.E.S. CONNECT AS REQUIRED.
- 50 AMP 250 VOLT RANGE RECEPTACLE.
- FIRE ALARM STATION - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +90" CENTERLINE.
- FIRE ALARM HORN - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +90" MIN. AND NOT LESS THAN 6" BELOW FINISHED CEILING.
- FIRE ALARM VISUAL ALARM - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER BOTTOM +80" A.F.F. BUT NO GREATER THAN +96" IF CEILING MOUNTED PER NFPA72 TABLE 6-4.4.1(1).
- SPEAKER - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +84"
- INTERCOM TELEPHONE - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48"
- FIRE ALARM MINI HORN - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +90" MIN. AND NOT LESS THAN 6" BELOW FINISHED CEILING.



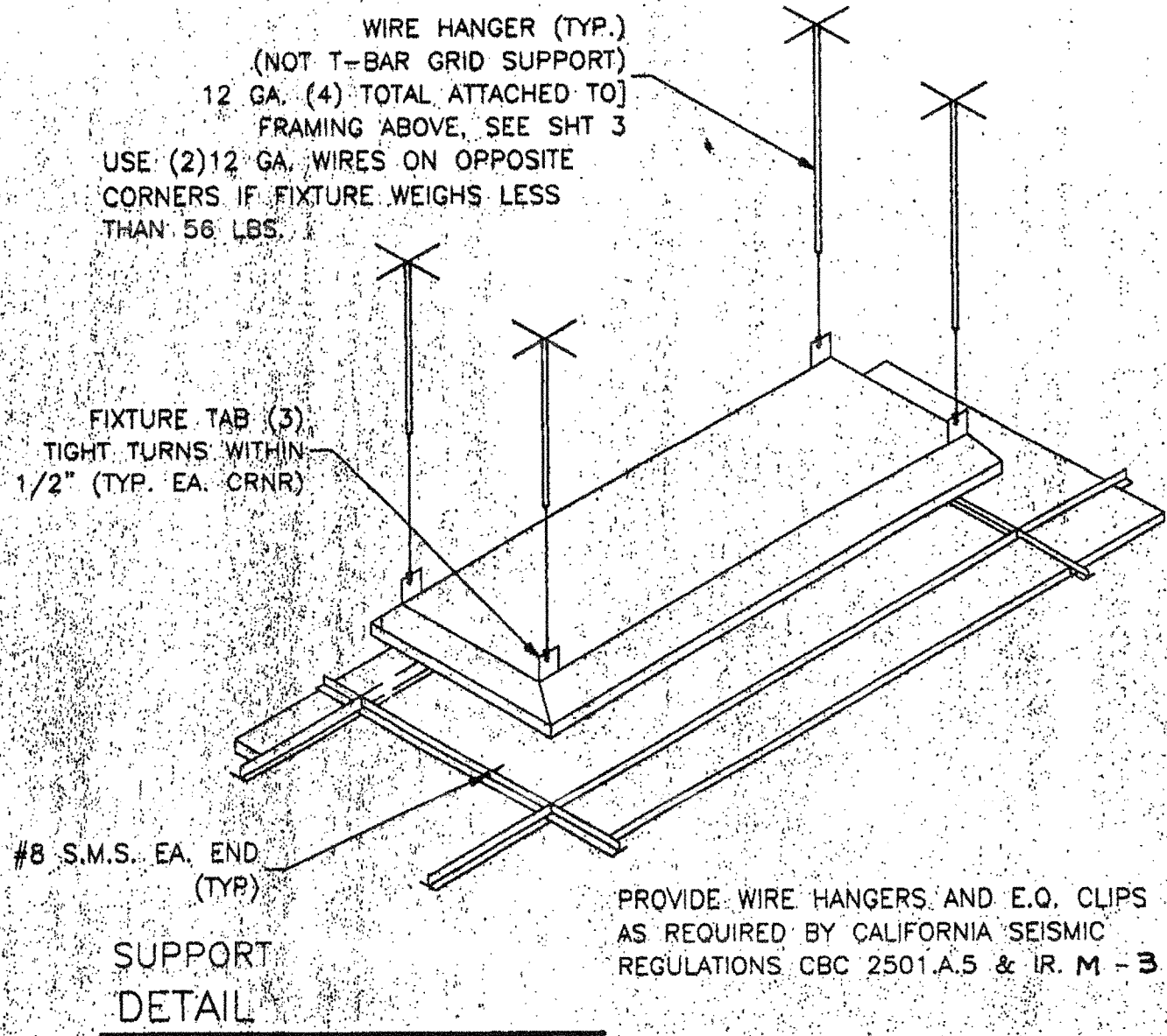
1 LIGHT FIXTURE PLAN
E1 1/4" = 1'-0"

The H.V.A.C. unit feeder circuit - panel circuit breaker, feeder wire, unit disconnect and fuses (where used) - is to be coordinated with the name plate data at the time of manufacture. H.V.A.C. units having kVA ratings larger than that indicated on this panel schedule will not be allowed to be installed on this building. If 60 degrees C. wire is to be used in this installation, calculations demonstrating ampacity be provided on the drawing.



2 ELECTRICAL PLAN
E1 1/4" = 1'-0"

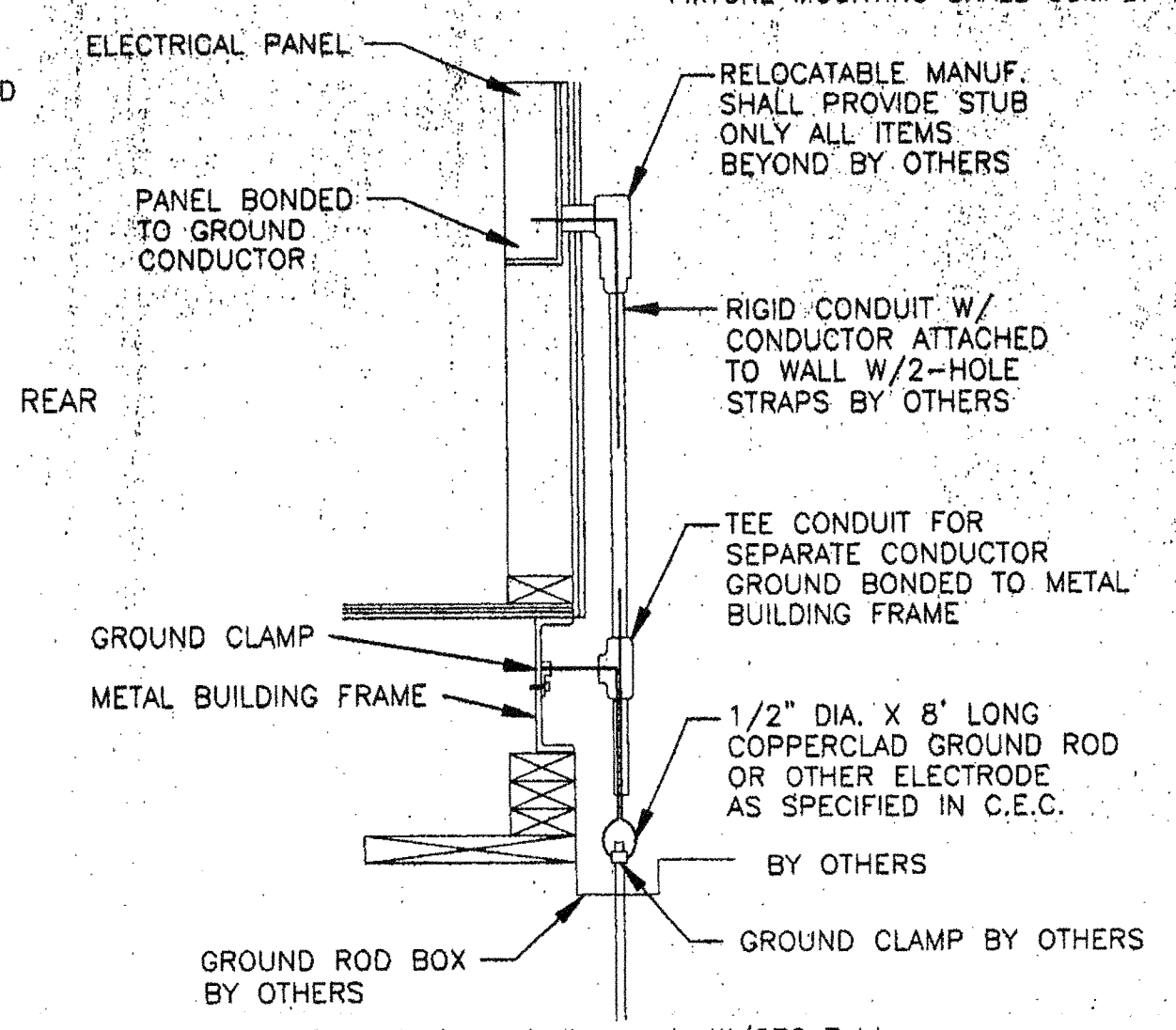
FIRE ALARM Junction boxes - Galvanized sheet metal, square or rectangular with blank covers. Locate one box at rear of building near main electrical panel at +18" above finish floor for future connection. Covers - install gasketed, metal, waterproof, finish covers at exterior locations. Install finish covers at interior locations. If testing results determine fire alarm audibility does not meet 15db over ambient noise levels, additional fire alarm signaling devices may be required by the enforcing agency.



SUPPORT DETAIL

SYMBOL	DESCRIPTION	WATTS	MANUFACTURER
(Symbol)	2"x4" FLUORESCENT DROP IN FIXTURE, ACRYLIC PRISMATIC LENS, ENERGY SAVING BALLAST, (4) 35 WATT TUBES, WT. 27 LBS.	156 W	CRESCENT 24TF440DLA
(Symbol)	FLUORESCENT SURFACE MOUNTED EXTERIOR LIGHT WITH IMPACT RESISTANT ENCLOSURE, 125 THICK CLEAR PRISMATIC ONE PIECE LENS W/ NEOPRENE GASKET & "POSIGRIP" STAINLESS STEEL SCREWS.	(2) 7W TT 2700 K	KENALL 3714 OR LITHONIA 202 2/7PL LP
(Symbol)	INCANDESCENT WALL MOUNTED	150W	PROGRESS P3011x30"

SEE TYPICAL CLASSROOM LAYOUT FOR LOCATIONS OF ALL DEVICES. FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.



A BUILDING GROUND DETAIL
E1 N.T.S.

VOLTS: 120/240 SINGLE PHASE		PANEL: A				FEED: EXTERIOR LB			
MAIN: 100 AMP MAIN BKR.		LOCATION: INTERIOR				MOUNTING: FLUSH			
LOAD	WATTS	BRK.	C	A	B	BRK.	WATTS	LOAD	
LIGHTS, FLUORESCENT	960	15	1	1	1	2	2,60	4476	A/C HVAC UNIT
LIGHTS, FLUORESCENT	960	15	1	3	3	4	2,60	4476	
EXTERIOR LIGHT & CLOCK	100	15	1	5	5	6			SPACE
DUPLEX RECEPT.	720	15	1	7	7	8			
DUPLEX RECEPT.	720	15	1	9	9	10			
SPACE				11	11	12			
SPACE				13	13	14			
SPACE				15	15	16			
SPACE				17	17	18			
PHASE WATTAGE	1880/1680						4476/4476		PHASE WATTAGE
TOTAL WATTS "A"LEG: 6556							TOTAL WATTS A+B=2743		TOTAL WATTS "B" LEG 6156
TOTAL WATTS: 15455							85 AMPS @ 120/240V		SINGLE PHASE 100AMP BUS.

FEEDERS: TO BE RUN BY THE DISTRICT EITHER UNDERGROUND OR OVERHEAD, SEE SITE ELEC. PLAN.

3 ELECTRICAL DISTRIBUTION PLAN
E1 1/4" = 1'-0"

- FIRE ALARM SYSTEM**
- THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, ARTICLE 760 & CALIF. FIRE CODE ART. 10.
 - INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE DIVISION OF THE STATE ARCHITECT.
 - UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.

- GENERAL NOTES**
- GROUNDING ELECTRODE CONDUCTOR SIZED PER NEC 250-94 & 95.
 - ALLOW FOR 12" MOVEMENT IN ANY DIRECTION IF PAD FOUNDATION IS USED.
 - PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
 - PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.

- FIXTURE NOTES:**
- ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
 - LUMINAIRES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE TITLE 24.
 - FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.

- ELECTRICAL**
- Electrical service drop and connections supplied by others.
 - Manufacturer to provide stub-out from back of electrical panel through the exterior wall for receiving either underground or overhead service & fitting for grounding cable.
 - Electrical panel board shall be recess mounted inside the building. Sized to accommodate all connected loads including spaces as shown. Overcurrent protective devices in the panel boards have adequate short circuit interrupting capacity. All buses including bus shall be copper or aluminum.
 - 2x4 Fluorescent fixtures shall be steel frame, lens shall be hinged and locked in place by two locking devices. The lens diffusers shall be KHS, Inc. #KSH-12, Carolite, Inc. #C-12 or Plaskolite, Inc. #PL21A. Minimum lens thickness shall be .125 inch.
 - Fluorescent ballast shall be energy saver while maintaining full light output, class "P" equipped with thermal protectors, guaranteed against failure for (2) years and be replaced from inside the fixture.
 - Clock - 12" dial clock on clock outlet.

- Clock shall be General Electric model 2912 129V 60 cycle
- Clock outlet shall be Bryant #2828 or equal with separable hanging clip & app'd recept.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02 102043
AC - FLS - 888 - 888
DATE - 10/18/00

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 01-117316
AC - FLS - 888 - 888
DATE - 11/01/00

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems
333 EAST CARNEGIE CT. MANTECA, CALIFORNIA 95337
PHONE (209) 825-1921 FAX: (209) 825-7018

CUSTOMER: _____

DATE: 10-19-99

SCALE: NONE

DRAWN BY: R.S.

CHECKED BY: _____

SERIAL NO. _____

ELECTRICAL PLAN & NOTES

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
▲			▲		
▲			▲		
▲			▲		

PROJECT No. _____

SHEET No. **E 1**



American Modular Systems Inc.

4-24 X 40 RELOCATABLE CLASSROOMS MOBILE MODULAR MANAGEMENT

TEST AND INSPECTION LIST

TESTING LABORATORY: _____ DATE: _____ STATE OF CALIFORNIA
 DEPT. OF GENERAL SERVICES
 DIVISION OF THE
 STATE ARCHITECT
 NAME: _____ STRUCTURAL
 TESTS
 AND
 INSPECTIONS
 DISTRICT/OWNER: _____ APPLICATION NO. _____
 ARCHITECT: _____
 STRUCTURAL ENGINEER: _____ CRS 103-1 (R 11/85)

The following tests and inspections, as checked, will be required as detailed in applicable specifications.

COMPACTED FILL	CONCRETE	GROUT	MORTAR	QUINITE
<input type="checkbox"/> Test of strength, absorption, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Inspection of work conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Inspection of work as ordered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Basis, quality of connected fill	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
REINFORCING STEEL				
<input checked="" type="checkbox"/> Sample and test, per spec.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sample and test, each	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Insert plates at job	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
STRUCTURAL STEEL				
<input checked="" type="checkbox"/> Sample and test, as ordered below	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Shop fabrication inspection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Field erection inspection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Inspection of work - Shop	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Inspection of work - Field	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Inspection of rivets or bolting - Shop	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Inspection of rivets or bolting - Field	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sample and test, high strength bolts and washers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BRICK AND BLOCK				
<input type="checkbox"/> Sample and test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Test only	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Inspection of masonry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Core drill samples	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GLUED LAMINATED STRUCTURAL LUMBER				
<input type="checkbox"/> Inspection inspection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sample and test, steel connections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Inspect fabrication of steel connections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>3 1/2" x 3 1/2" x 1/4" SO. CUL. TESTING MAY BE WAIVED IF STEEL HAS BEEN PROPERLY IDENTIFIED BY MFR'S MILL ANALYSIS AND TEST REPORTS PER TITLE 24, C.C.R., SECTION 2231.A.1</p> <p>10 go. & 12 go. ROOF CEE 3 1/2" x 10 go. ALT. ROOF JOIST</p> <p>6 7/8" x 14 GA. FL. JOISTS 6"x14 go. ROOF JOIST 2"x16" go. STRAPS</p> <p>6 7/8" x 12 go. ALT. FL. JOIST 4"x12 go. ALT. ROOF JOIST 3"x18" go. ALT. STRAPS</p> <p>Other Tests and Inspections, together with special instructions:</p> <p>GROUNDING TEST EXPANSION ANCHORS EPOXY ANCHORS</p> <p>Copies of Reports to: DSA/ORS AMERICAN MODULAR SYSTEMS, INC. SCHOOL DISTRICT ARCHITECT</p> <p>By: _____ AUTHORIZED REPRESENTATIVE</p>				

SHEET No.	DESCRIPTION
TS-1	TITLE & BUILDING DATA NOTES
N-1	GENERAL NOTES AND SPECIFICATIONS
1	FLOOR PLAN & NOTES
2	EXTERIOR ELEVATIONS
3	CEILING GRID, DETAILS AND NOTES
4	INTERIOR ELEVATIONS AND OPTIONS
S1B	WOOD FOUNDATION PLAN & DETAILS 125 PSF FLOOR LIVE LOAD
S2	FLOOR FRAMING PLAN AND DETAILS
S2A	BUILDING SECTIONS AND WALL DETAILS
S3	ROOF FRAMING PLANS AND DETAILS
S3A	ROOF SECTIONS & DETAILS
S4	WALL FRAMING ELEVATIONS & FRAME DETAILS
SSR	RAMP PLAN, ELEVATIONS AND DETAILS
M1	MECHANICAL PLAN & NOTES
E1	ELECTRICAL PLAN & NOTES

BUILDING DATA MMM #368 THRU #371

OCCUPANCY	E-1/B	B OCCUPANCY USES TO MEET THE REQUIREMENTS OF CBC TABLE 3-A AND CBC TABLE 5-A
TYPE OF CONSTRUCTION	V - NON-RATED	
WIND LOAD (80 MPH EXPOSURE C)	21 LBS/SQ FT	
FLOOR LIVE LOAD	125 LBS./SQ. FT.	
ROOF LIVE LOAD	20 LBS/SQ FT (REDUCIBLE)	THIS STRUCTURE IS DESIGNED TO SUPPORT A FIRE SPRINKLER SYSTEM
RAMP LIVE LOAD	100 LBS/SQ FT	
BUILDING AREA	960 SQ FT	
CLIMATE ZONES	1-16	

- 2001 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)
- 2001 CALIFORNIA BUILDING CODE, VOLUMES 1, 2 AND 3 (PART 2, TITLE 24, CCR) (1997 EDITION UNIFORM BUILDING CODE WITH 2001 CALIFORNIA AMENDMENTS)
- 2001 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR) (1989 EDITION NATIONAL ELECTRICAL CODE WITH 2001 CALIFORNIA AMENDMENTS)
- 2001 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR) (2000 EDITION IAPMO UNIFORM MECHANICAL CODE WITH 2001 CALIFORNIA AMENDMENTS)
- 2001 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR) (2000 EDITION IAPMO UNIFORM PLUMBING CODE WITH 2001 CALIFORNIA AMENDMENTS)
- 2001 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
- 2001 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR)
- 2001 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
- 2001 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

- NFPA 13, 1999 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED
- NFPA 14, 2000 EDITION, INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS
- NFPA 24, 1995 EDITION, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
- NFPA 72, 1999 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED

MODULES	MOMENT-RESISTANT
SYSTEM	(2) 12' X 40' MODULES
FOUNDATION	PRESSURE TREATED WOOD
SEISMIC	ZONE 4
	SEISMIC SOURCE A DISTANCE FROM SEISMIC SOURCE ≤ 2 KM SOIL TYPE S ₁



American Modular Systems Inc.
787 Soreckola Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
amer@ammodular.com

BASED ON PC 02-104915

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
ACS: [Signature] FLS: [Signature] SS: [Signature] DL: [Signature]
DATE: 1/16/18



CBC 2001

FILE NO. 29-0

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-105665
AC: [Signature] FLS: [Signature] SS: [Signature] DL: [Signature]
DATE: 0-24-2003

JOB NO.

DATE: AUGUST 22, 2003

SHEET NUMBER

TS-1

BINDING ORDER 1

GENERAL NOTES AND SPECIFICATIONS

SECTION 1A GENERAL REQUIREMENTS

1. THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THIS GENERAL REQUIREMENT APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH TRADE SECTION.

2. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS WITH THE WRITTEN APPROVAL OF D.S.A. AND THE ARCHITECT.

3. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLES 19 AND 24 CALIFORNIA CODE OF REGULATIONS. NO CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF D.S.A. AND THE ARCHITECT.

4. THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT AND INSTALLING ON-SITE MODULAR RELOCATABLE BUILDINGS AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS.

5. ALL REQUIREMENTS OF TITLES 19 AND 24 OF THE CALIFORNIA CODE OF REGULATIONS RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:

1. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION BY THE ARCHITECT OF RECORD.
2. INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION INCLUDING MECHANICAL AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICTS.
3. ON-SITE INSPECTION OF THE BUILDING INSTALLATION, ELECTRICAL AND UTILITY INSTALLATION OR CONNECTIONS BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.
4. OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.
5. ADDENDUMS SHALL BE SIGNED BY THE ARCHITECT & APPROVED BY D.S.A.
6. CHANGE ORDERS SHALL BE SIGNED BY THE OWNER & ARCHITECT & APPROVED BY D.S.A.
7. THE TESTING LAB SHALL BE IN THE EMPLOY OF THE OWNER.
8. ALL CONTRACTORS SHALL VERIFY ALL WORK CONDITIONS, DIMENSIONS AND DETAILS AND REPORT ANY OR ALL OMISSIONS AND DISCREPANCIES TO THE DESIGNER/OWNER IMMEDIATELY BEFORE COMMENCING WORK.
9. EACH CONTRACTOR TO BE RESPONSIBLE TO SEE THAT THEIR WORK CONFORMS TO ALL GOVERNMENTAL CODES, WHETHER OR NOT SO STATED ON THE DRAWINGS.
10. ALL MATERIALS AND WORKMANSHIP TO CONFORM TO THE LATEST REQUIREMENTS OF THE GOVERNING BUILDING CODES.
11. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED AND ERECTED PER MANUFACTURER'S DIRECTIONS AND INSTRUCTIONS.
12. SHOP DRAWINGS MAY BE REQUIRED. IF SO, THEY WILL BE ACCURATELY DRAWN TO A LARGE ENOUGH SCALE TO SHOW ALL PERTINENT DETAILS OF THE ITEM AND ITS CONNECTION TO RELATED WORK.
13. THE MANUFACTURER OF BUILDING IS TO PLACE TWO PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE. MECHANICALLY FASTENED TO THE FRAME SEE "GENERAL DESIGN REQUIREMENTS" THIS PAGE.

FOR PROJECTS MANUFACTURED OFF-SITE, THE PLANT INSPECTOR IS TO INDICATE THE MANUFACTURER'S NAME AND SERIAL NUMBER OF EACH MODULE ON THE VERIFIED REPORT AND O.S.A. APP. NUMBER.

ALL TESTS AND INSPECTIONS REQUIRED BY D.S.A. SHALL BE COMPLIED WITH ALL TESTS REQUIRED BY THE LIFE SAFETY REGULATIONS SHALL BE BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

FOUNDATION

1. ASSUMED ALLOWABLE SOIL BEARING: 1000 PSF.
2. FOOTINGS SHALL BE LOCATED ON UNDISTURBED FIRM NATURAL SOIL. APPROVED COMPACTED FILL OR ON AN APPROVED PAVED SURFACE.
- NOTE: THE FOUNDATION SYSTEM PRESENTED HEREIN COULDES WITH INTERPRETATION OF REGULATIONS, IF 16-1, ISSUED BY DIVISION OF THE STATE ARCHITECT FOR TENSORED BUILDINGS. THIS FOUNDATION SYSTEM IS NON-CONVENTIONAL AND THE STRUCTURAL ENGINEER TAKES NO RESPONSIBILITY FOR ITS CONSTRUCTION OR LONGEVITY.
3. WORK NOT INCLUDED:
- A. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.
- B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- C. FIRE ALARM SYSTEM, PROGRAM BELL, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TELEPHONE SYSTEM UNLESS OTHERWISE INDICATED ON THE DRAWINGS, OR MODIFIED BY CHANGE ORDER.
4. WHEELS AND HITCH SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
5. ACCESSIBILITY OF SITE THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF BUILDINGS. REMOVAL OF TREES SHRUBS, FENCING, SPRINKLERS ETC. NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

TRIM / FINISH NAILING			
DESCRIPTION	SET	SIZE	LENGTH / FINISH
SIDING		131	2 1/4" GALV.
CASING, SILL & INT. CORNER TRIM	X	158	1 1/4" N
2X FASCIA		131	3" GALV.
SOFFIT		131	2 1/4" GALV.
1X EXT. TRIM, WINDOWS, EXT. DOORS, EXT. TRIM		113	2" GALV.

SECTION 5 STEEL

GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC STANDARD SPECIFICATIONS, TITLE 24 OF CALIFORNIA CODE OF REGULATIONS AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OF STEEL STRUCTURAL MEMBERS.

1. WELDING - ALL WELDING DONE BY SHELDED ELECTRIC-ARC OR FLOW CORED-ARC PROCESS CONFORMING WITH REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY. WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT.

2. WELDING INSPECTION PER TITLE 24, PART 2, CODE SECTION 22311.5. WELDING ELECTRODE SHALL BE E70XX.

3. STRUCTURAL STEEL SHALL CONFORM TO A.S.T.M. A-36 & A-570 OR A-588 UNLESS OTHERWISE NOTED.

4. PIPE COLUMNS SHALL CONFORM TO A.S.T.M. A-53 WITH SULFUR CONTENT NOT EXCEEDING 0.05%.

5. STEEL TUBING SHALL CONFORM TO A.S.T.M. A-500 GRADE B OR A.S.T.M. A-579 GRADE 50 FOR GAUGE TUBING-TYP. U.A.D.

6. STRUCTURAL WELDS ARE DESIGNED FOR FULL ALLOWABLE STRESS UNLESS OTHERWISE NOTED.

7. CONNECTIONS TO BE ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNATED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDED AS INDICATED ON THE DRAWINGS.

8. UNUSUALS, SCREWS AND NUTS ETC. FOR EXTERIOR WORK SHALL BE CADMIUM PLATED OR GALVANIZED.

9. BOLTS FOR STRUCTURAL STEEL JOINTS SHALL CONFORM TO A.S.T.M. A-307 UNLESS OTHERWISE NOTED. ALL HOLES FOR MACHINE AND CAPSCREW BOLTS THROUGH STEEL TO BE DRILLED OR TORCH PILET HOLE AND REAM MIN. 1/16" TO CORRECT SIZE. NELSON STUDS (WELDED TO STEEL) MAY BE SUBSTITUTED FOR BOLTS SAME LENGTH AND DIAMETER.

10. UNUSUALS - FABRICATED, AS DETAIL. WELDS BOUND SMOOTH.

11. SHOP PAINT

1. EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
2. NON-EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
3. ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS. PRIME ALL EXPOSED STEEL SURFACES AFTER FIELD WELDING.

12. TESTS

1. PROVIDE MILL CERTIFICATES OR TEST ALL STEEL MEMBERS PER 7-24 PART 2, CODE SECTION 22311.1.

SECTION 6A CARPENTRY

GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, PART 2, TITLE 24, CODE SECTION 1103.1.1.

1. SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY.

2. MATERIALS LUMBER GRADE MARKED IN ACCORDANCE WITH "STANDARD GRADING AND DRESSING RULE NO. 17 OF WEST COAST LUMBER INSPECTION BUREAU" OR "GRADING RULES FOR LUMBER" 3RD EDITION OF WESTERN WOOD PRODUCTS ASSOCIATION OR MILLER'S. PLYWOOD GRADE MARKED IN ACCORDANCE WITH PRODUCT STANDARD PS-1-95 FOR SOFTWOOD PLYWOOD OF AMERICAN PLYWOOD ASSOCIATION, COMPLYING WITH CBC. EACH SHEET SHALL BEAR THE STAMP OF APA, PITTSBURGH TESTING, OR TECO.

3. JOISTS, PLATES, STUDS-DOUGLAS FIR OR HEM FIR S4S #2 U.N.O. NOTE: MER 1850 E125 MAY BE SUBSTITUTED FOR #2 GRADE IF IT MEETS THE STRUCTURAL REQUIREMENTS FOR FLOOR AND ROOF MEMBERS.

4. HEADERS, POSTS AND TIMBERS-DOUGLAS FIR S4S #1.

5. BLOCKING - DOUG FIR #3 OR HEM FIR #3 OR STD. & BET. SILLS AND LUMBER & SHIM PLATES IN CONTACT WITH CONCRETE MASONRY OR FATH. DOUG FIR #2 FLOOR TREATED IN ACCORDANCE WITH CBC 1817 - EACH PIECE SHALL BEAR AMPB STAMP. LP-22 GROUND CONTACT, F.#2 ABOVE GROUND.

6. PLYWOOD ROOF CEILING - SEE 5.3.

7. PLYWOOD FLOOR DECKING - APA STURO-1 FLOOR 2-4-1 OR UNI-FLOOR BY PITTSBURGH TESTING LAB. 1-1/8" X 18" X 1/2" TONGUE AND GROOVE FLOOR SHEATHING, WITH EXTERIOR CLIE.

8. EXTERIOR SIDING/SHEATHING - APA TYPED EXTERIOR OR HARDIPANEL FIBER CEMENT SIDING AS MFG. BY JAMES HARDIE BUILDING PRODUCTS NER-405 REPORT.

9. MOISTURE BARRIER - WPAT WATERPROOF BUILDING PAPER, OR 15 LB. FELT. UBC STANDARD 14-1 FOR KRAFT, 1-1/8" FOR FELT.

10. STUDS - DOUG FIR #2 OR HEM FIR #2 MOISTURE CONTENT NOT OVER 19%. FASTENERS - ALL NAILS SHALL BE CORROSION RESISTANT PER CBC 2318.8.4.1. COMMON NAILS FOR EXT. SIDING & TRIM. UNLESS OTHERWISE NOTED.

11. BUILDING TRIM - 2X RESAWN SELECT D.F., J.F. OR CEDAR DOOR/WINDOW TRIM - 1X4 REAWN D.F., J.F. OR CEDAR.

12. FRAMING CONNECTORS SHALL BE FROM SIMPSON CATALOG LATEST ED. FIRE BLOCKS SHALL CONFORM TO CBC SECTION 708.

13. ALL NAILS SHALL BE COMMON NAILS UNLESS OTHERWISE NOTED.

14. FOUNDATION LUMBER: ALL CUT ENDS AND ENDS IN PRESSURE TREATED LUMBER SHALL BE TREATED WITH "CUPROLIN".

15. WORKMANSHIP

16. FRAMING - SECURELY Nailed, BRIDGED AND BLOCKED TO FORM ROBE STRUCTURE. WORK CUT, FITTED AND ASSEMBLED LEVEL PLUMB AND TRUE TO LINE. TRIM, IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.

17. NAILING - IN ACCORDANCE WITH TITLE 24, PART 2, CALIFORNIA BUILDING CODE, TABLE 23A-11-B-1.

18. EXTERIOR WALLS - FACTORY FABRICATED, GALKING PROVIDED BETWEEN PERIMETER OF WALL AND STRUCTURAL MEMBERS PROVIDING WEATHER-PROOF AND WATER-TIGHT SEAL. NECESSARY CLOSERS, SEALS, AND FLASHINGS PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.

19. MACHINE APPLIED NAILING: USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE.

20. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAILS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.

21. MOISTURE BARRIER - APPLIED TO STUDS WATER-BEARD FASHION, HORIZONTAL.

22. JOINTS LAPPED MIN 6" INCLUDING BUILDING CORNERS. SHEATHING APPLIED OVER MOISTURE BARRIER.

23. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING UNLESS STANDARD TYPE.

SECTION 7B SHEET METAL

GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, PART 2, TITLE 24, CODE SECTION 1103.1.1.

1. SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.

2. MATERIALS

A. SHEET METAL - STEEL SHEETS - HOT DIP GALVANIZED WITH 1.25 OZ. PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A526. MINIMUM 26 GA. UNLESS OTHERWISE NOTED ON THE DRAWINGS.

B. SOLDER - OF STAND. GRADE "A" OF EQUAL PARTS BRAND LEAD AND TIN ASTM B32.

C. FLUX - ZINC SATURATED MURIATIC AID.

D. CUTTERS: 26 GA. 0-90 GALV. STEEL

E. DOWNSPOUTS: 2"x1" CONVOLUTION 30 GA. G-90 GALV. STEEL. CUTTER ENDS: 26 GA. 0-90 GALV. STEEL.

F. GUTTER CLIPS: 18 GA. 0-90 GALV. STEEL.

3. WORKMANSHIP SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR WORK FORMED, FABRICATED AND INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT. ALUMINUM SHALL BE SEPARATED FROM FERROUS METAL BY POLYETHYLENE TAPE OR FLOOD COAT OF ASPHALTIC PAINT.

SECTION 7C METAL ROOFING

GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, PART 2, TITLE 24, CODE SECTION 1103.1.1.

1. SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL METAL ROOFING. TEST RESULTS SHOWING THE ROOFING SYSTEM WILL WITHSTAND THE UPLIFT OF A 80 MPH WIND SHALL BE SUBMITTED WITH THE PLANS AND SPECIFICATIONS.

2. MATERIALS

A. ROOFING - 3" INCH STANDING SEAM 22-GAUGE G-90 GALV. INTERLOCKING STEEL PANELS (990).

B. ROOFING: CLASS-B FIRE RATING.

SECTION 7J SEALANT

GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, PART 2, TITLE 24, CODE SECTION 1103.1.1.

1. SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO SEAL BUILDINGS.

2. MATERIALS VULKEM SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL FOR ROOFS, TEOCEL SILICONEZED CAULK, GYFURP, EAGLESEAL OR GYP FOR ALL OTHER APPLICATIONS, OR EQUAL.

3. WORKMANSHIP SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO WEATHER BUILDING WATER/TIGHT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

SECTION CONCRETE CONCRETE (IF USED)

GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, PART 2, TITLE 24, CODE SECTION 1103.1.1.

1. CONCRETE MORTAR AND RELATED MATERIALS TO CONFORM TO APPLICABLE PROVISIONS OF TITLE 24 PART 2, CODE SECTION 1103.1.1.

2. REINFORCING BARS: ASTM A615 OR ASTM A706 DEFORMED GRADE 40 BILLET STEEL.

3. FORMS: ALUMINUM OR STEEL. ASTM D394.

4. FORM MATERIALS: SIDE FORMS: DOUGLAS FIR, CONSTRUCTION GRADE OR BETTER; OR METAL FORMS.

5. PLACING REINFORCEMENT, PLACING CONCRETE SURFACE FINISHES, CURING AND REMOVAL OF FORMS SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF TITLE 24, PART 2.

ACCESSIBILITY STANDARDS

CALIFORNIA BUILDING CODE (PART 2, TITLE 24, CODE SECTION 1103.1.1) BUILDING ACCESSIBILITY: GENERAL. THE 2001 CBC REQUIRES THAT BUILDINGS HAVING 16000 SQUARE FEET OR ANY FLOOR MUST HAVE AN ACCESSIBLE MEANS OF VERTICAL ACCESS VIA RAMP, ELEVATOR, OR LIFT WITHIN 200 FEET OF THE BUILDING. ADA TITLE 28, PART 119.2.1.1 SUGGESTED DIMENSIONS FOR CHILDREN'S USE. THE 2001 CBC REQUIRES A MINIMUM CLEARANCE FOR LAVATORY/SINK CLEARANCE. WHO'S THE DISTANCE FROM THE FINISH FLOOR TO THE UNDERSIDE OF THE LAVATORY/SINK. THE 1998 CBC INCORPORATED A 24" MAXIMUM DIMENSION FOR LAVATORY/SINK CLEARANCE. SECTION 1115B.6.2.1 WATER CLOSET. THE 2001 CBC REQUIRES THAT THE FORCE TO OPERATE A WATER CLOSET (TOILET) FOR AN ACCESSIBLE USER SHALL NOT EXCEED 5 LBS. MAXIMUM FORCE (PULL). THE 1998 CBC: 1003.2.8.1, 1003.2.8.2, 1003.2.8.3, 1003.2.8.4, 1003.2.8.5, 1003.2.8.6, 1003.2.8.7, 1003.2.8.8, 1003.2.8.9, 1003.2.8.10, 1003.2.8.11, 1003.2.8.12, 1003.2.8.13, 1003.2.8.14, 1003.2.8.15, 1003.2.8.16, 1003.2.8.17, 1003.2.8.18, 1003.2.8.19, 1003.2.8.20, 1003.2.8.21, 1003.2.8.22, 1003.2.8.23, 1003.2.8.24, 1003.2.8.25, 1003.2.8.26, 1003.2.8.27, 1003.2.8.28, 1003.2.8.29, 1003.2.8.30, 1003.2.8.31, 1003.2.8.32, 1003.2.8.33, 1003.2.8.34, 1003.2.8.35, 1003.2.8.36, 1003.2.8.37, 1003.2.8.38, 1003.2.8.39, 1003.2.8.40, 1003.2.8.41, 1003.2.8.42, 1003.2.8.43, 1003.2.8.44, 1003.2.8.45, 1003.2.8.46, 1003.2.8.47, 1003.2.8.48, 1003.2.8.49, 1003.2.8.50, 1003.2.8.51, 1003.2.8.52, 1003.2.8.53, 1003.2.8.54, 1003.2.8.55, 1003.2.8.56, 1003.2.8.57, 1003.2.8.58, 1003.2.8.59, 1003.2.8.60, 1003.2.8.61, 1003.2.8.62, 1003.2.8.63, 1003.2.8.64, 1003.2.8.65, 1003.2.8.66, 1003.2.8.67, 1003.2.8.68, 1003.2.8.69, 1003.2.8.70, 1003.2.8.71, 1003.2.8.72, 1003.2.8.73, 1003.2.8.74, 1003.2.8.75, 1003.2.8.76, 1003.2.8.77, 1003.2.8.78, 1003.2.8.79, 1003.2.8.80, 1003.2.8.81, 1003.2.8.82, 1003.2.8.83, 1003.2.8.84, 1003.2.8.85, 1003.2.8.86, 1003.2.8.87, 1003.2.8.88, 1003.2.8.89, 1003.2.8.90, 1003.2.8.91, 1003.2.8.92, 1003.2.8.93, 1003.2.8.94, 1003.2.8.95, 1003.2.8.96, 1003.2.8.97, 1003.2.8.98, 1003.2.8.99, 1003.2.8.100.

SECTION 8B HOLLOW METAL DOORS AND FRAMES

GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, PART 2, TITLE 24, CODE SECTION 1103.1.1.

1. SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS AND FRAMES.

2. MATERIALS

A. DOORS - INSULATED TYPE I FULL FLUSH, MANUFACTURED BY AMWELD MANUFACTURING COMPANY, 18 GA. 1 3/4" THICK PER CS242 MFR. REINFORCE FOR HARDWARE - BOTH FACES FOR CLOSER. SOUND DEADEN INTERIOR.

B. FRAMES - 18 GA. COLD ROLLED, 2" FACES, CS242 MIN 3 ANCHORS PER JAMB + ADJUSTABLE FLOOR ANCHOR EACH JAMB REINFORCE FOR HARDWARE. PROVIDE STRIKE BOX, INSULATING SOUND DEADENING, 1/8" OVER UNDER OR INSULATING FILL.

3. WORKMANSHIP ALL WORK FABRICATED IN SHOP TO REQUIRED PROFILES BY FORMING AND WELDING, WITH ARISES AND EDGES STRAIGHT, SHARP, FIT FABRICATED ACCURATELY WITH SQUARE CORNERS, SQUARE JOINTS AND SURFACES FREE FROM HARM-WAY-BUCKLE OR OTHER DEFECTS AFTER FABRICATION DOORS AND FRAMES CLEANED THOROUGHLY ALL WELDS GRIND SMOOTH AND GIVEN PRIME COAT.

4. FINISH HARDWARE SEE SHEET

SECTION 9E PAINTING

GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, PART 2, TITLE 24, CODE SECTION 1103.1.1.

1. SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDING. ALL EXPOSED SURFACES OF BUILDING AND RAMPS SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES, THRESHOLDS, AND ROOFING.

2. MATERIALS

A. FOR EXTERIOR WOOD:

REF. BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAR
FINISH	00-60-XX	1240-XXX	B54WZ102	GE2-8XX

B. FOR INTERIOR TRIM:

REF. BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAR
FINISH	00-60-XX	1650-XXX	A26W11	40XX

C. FOR METAL:

REF. BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAR
FINISH	43-4	1710	B50N26	15H
FINISH	10-XX	1700-XXX	B54WZ102	GE2-8XX

3. WORKMANSHIP EXPOSED SURFACES SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES AND THRESHOLDS. MATERIAL SHALL BE OF THE GRADE SPECIFIED OR EQUAL.

4. EXTERIOR - WOOD SIDING, TRIM AND SKIRTING FLAT OR SEMI-GLOSS LATEX - APPLY ONE COAT OF PRIME AND AT LEAST ONE FINISH COAT. PRIME COAT SHALL BE BRUSHED ON OR SPRAYED AND BACK BRUSHED INTO ALL GROOVES IN THE SIDING. IF NECESSARY, IN THE OPINION OF THE INSPECTOR, AN EXTRA COAT SHALL BE APPLIED TO ALL GROOVES SO THAT THE FINISH COAT WILL HAVE A UNIFORM APPEARANCE. ALLOW PRIME COAT TO DRY ACCORDING TO MANUFACTURER'S RECOMMENDATION. PRIME AND FINISH COATS SHALL BE COMPATIBLE AND MANUFACTURED BY THE SAME COMPANY.

5. INTERIOR TRIM - TRIM NOT PRECOATED SHALL BE PAINTED WITH TWO COATS OF SEMI-GLOSS LATEX OVER PRIMER.

6. INTERIOR HARDWOOD CABINETS - TWO COATS LOW LUSTER POLYURETHANE FINISH. APPLY FIRST COAT THINLY WITH ONE QUART MINERAL SPIRITS PER GALLON. APPLY SECOND COAT AS RECOMMENDED BY MANUFACTURER.

7. ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALLOY FINISH COAT OVER ZINC CHROME OR EQUAL.

8. RUST INHIBITING PRIMER.

9. RAMP - ONE COAT OF FERROUS NON-SLIP SURFACING AS MANUFACTURED BY AMERICAN ABRASIVE METALS OR COMPARABLE. (0.7 MIN. C.G.F.) ALL PAINTS OF THE TYPE INDICATED SHALL BE LISTED ON THE STATE OF CALIFORNIA QUALIFIED PRODUCTS LIST FOR MAINTENANCE PAINTS 9010-9100-98A DATED JULY 1989. USE EQUAL.

10. SUBMIT ONE SET COLOR SAMPLES TO ARCHITECT FOR EACH PRODUCT TO ASSIST IN SELECTION.

SECTION 13F SITE ASSEMBLY

GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, PART 2, TITLE 24, CODE SECTION 1103.1.1.

1. SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE. THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT UNLESS SPECIFICALLY CALLED FOR IN THIS CONTRACT. STOPS, RAMPS, OR HANDRAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

2. ASSEMBLY OF ELEMENTS IN A LOCATION ON THE SITE AS DETERMINED BY THE SCHOOL DISTRICT (APPROVED BY DSA) THE CONTRACTOR SHALL PLACE WOOD LEVELING STRIPS OR OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWINGS.

3. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING EACH OTHER.

4. CONNECTIONS OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTION ON THE DRAWINGS. FLASHINGS, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

NOTE: WALL FINISH MATERIAL: FLAME SPREAD MAX = 200 SMOKE DENSITY MAX = 450 BUILDING INSULATION: FLAME SPREAD MAX = 25 SMOKE DENSITY MAX = 450 PIPE INSULATION: FLAME SPREAD MAX = 25 SMOKE DENSITY MAX = 450 DUCT INSULATION: FLAME SPREAD MAX = 25 SMOKE DENSITY MAX = 50

SECTION 15A AIR CONDITIONING

GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, PART 2, TITLE 24, CODE SECTION 1103.1.1.

1. SCOPE OF WORK (SEE SHEET #11 FOR HVAC SPEC. AND NOTES) CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL AIR CONDITIONING SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS, INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTAT, GRILLS AND POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRUCT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C SYSTEM.

2. EQUIPMENT SEE NOTE ON FLOOR PLAN FOR SIZE AND TYPE.

3. WORKMANSHIP UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

SECTION 16A ELECTRICAL

GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, PART 2, TITLE 24, CODE SECTION 1103.1.1.

1. SCOPE OF WORK CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES FOR ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES, IN OPERATING CONDITION READY FOR USE. THE WORK INCLUDES: LIGHT AND POWER SYSTEMS, LIGHTING FIXTURES COMPLETE WITH LAMPS, CONNECTIONS AND DISCONNECTS TO A/C EQUIPMENT.

2. MATERIALS ALL NEW COMPLYING WITH REQUIREMENTS OF CALIFORNIA ELECTRICAL CODE AND NATIONAL FIRE PROTECTION ASSOCIATION.

A. ELECTRIC METALLIC TUBING - COUPLING AND FLEX CONDUIT GALVANIZED OR SILVERZINCED, EXTERIOR FLEX - GALV. STEEL W/ FACTORY APPLIED P.V.C. JACKET.

B. PANELBOARDS - FLUSH MOUNTED.

C. CONDUITS - COPPER INSULATED FOR 600 VOLTS, TYPE THHN FOR #14.

D. RECEPTACLES - AS NOTED, 115' A.F.F. MIN.

E. CLOCK RECEPTACLE - AS NOTED.

F. SWITCHES - AS NOTED, #48' A.F.F. MAX.

G. LIGHTING FIXTURES - AS NOTED ON THE DRAWINGS.

3. WORKMANSHIP MATERIALS AND EQUIPMENT INSTALLED IN A SECURE NEAT WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS. PANELBOARD CANNIS FILLED OUT - CONDUIT AND CABLE INSTALLED IN ALL AND CONC SPACES. WORK FACE PLUMB, WATERPROOFED AREAS FLASHED AND SEALED TO A WATER TIGHT CONDITION. BUILDING CONDUIT/WIRING FROM FACE OF BLDG TO SITE TERMINATION BY SITE CONTRACTOR (N.C.). (FLEXIBLE CONDUIT => BEND SEALTIE)

INSPECTION

GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, PART 2, TITLE 24, CODE SECTION 1103.1.1.

1. INSPECTION CONTRACTOR SHALL ALLOW UP TO SEVEN (7) DAYS FROM THE DATE OF PLAN APPROVAL TO OBTAIN AN IN-PLANT INSPECTOR APPROVED BY D.S.A.

2. ON-SITE INSPECTION THE CONTRACTOR SHALL ALLOW UP TO SEVEN (7) DAYS FROM THE DATE OF PLAN APPROVAL TO OBTAIN AN IN-PLANT INSPECTOR APPROVED BY D.S.A.

COORDINATION OF WORK

GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, PART 2, TITLE 24, CODE SECTION 1103.1.1.

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY ARRANGEMENTS WITH THE SCHOOL, DISTRICT AUTHORIZED REPRESENTATIVE FOR ACCESS TO GROUNDS AND REMOVAL OF EQUIPMENT IF NECESSARY.

2. THIS CONTRACT SHALL BE MADE AT LEAST 48 HOURS PRIOR TO DELIVERY OF ANY MODULE.

3. ON-SITE INSPECTION SHALL BE DONE BY THE SITE INSPECTOR. ALL WORK WHICH THE MANUFACTURER OR HIS SUBCONTRACTORS PERFORM AT THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE SITE INSPECTOR. THE MANUFACTURER WILL FURNISH THE SITE INSPECTOR WITH SUCH INFORMATION AS MAY BE NECESSARY TO KEEP HIM FULLY INFORMED AS TO PROGRESS OF WORK AND DATES WHEN SITE WORK WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.

4. THE CONTRACTOR SHALL VERIFY THAT THE DISTRICT'S SITE IS READY TO RECEIVE THE CLASSROOMS PRIOR TO THE DELIVERY OF ANY CLASSROOMS BY VISITING EACH SITE. THIS MAY BE DONE BY THE INSPECTOR.

MATERIALS AND WORKMANSHIP

GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, PART 2, TITLE 24, CODE SECTION 1103.1.1.

1. CONTRACTORS SHALL VERIFY THAT NO ASBESTOS-CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.

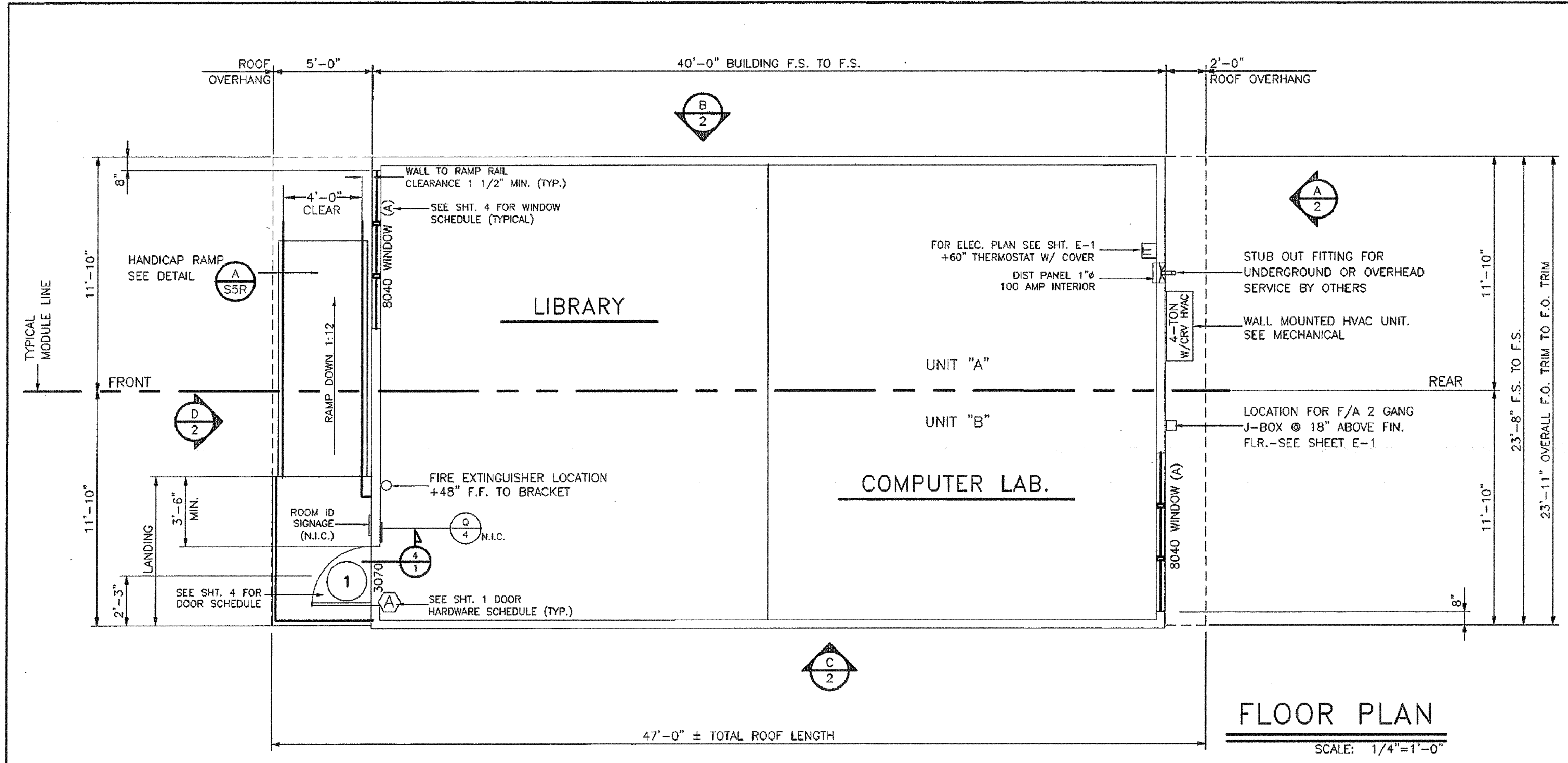
2. ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED UNLESS OTHERWISE SPECIFIED SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED. THE CONTRACTOR SHALL, IF REQUESTED, FURNISH EVIDENCE SATISFACTORY TO THE ARCHITECT THAT SUCH IS THE CASE.

3. CONTRACTOR'S CREWS ASSIGNED TO ANY WORK PERFORMED UNDER THIS CONTRACT SHALL INCLUDE ONE COMPETENT AND FULLY EXPERIENCED PERSON DESIGNATED AS THE RESPONSIBLE PERSON IN CHARGE. SUCH PERSON MUST BE IDENTIFIED BY NAME TO THE DISTRICT IN ADVANCE OF ANY WORK. UPON REQUEST, THE CONTRACTOR SHALL PROMPTLY FURNISH TO THE DISTRICT INFORMATION RELATING TO THIS EMPLOYEE'S EXPERIENCE.

4. WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT. A QUALITY CONTROL SUPERVISOR, DESIGNATED BY THE MANUFACTURER, SHALL REVIEW ALL WORK IN PROGRESS AND SHALL VERIFY THE FINISHED BUILDING PRIOR TO FINAL INSPECTION TO ASSURE IT IS COMPLETE AND CORRECT. THE QUALITY CONTROL SUPERVISOR SHALL HAVE THE AUTHORITY TO CORRECT ANY REPEATED WORK REDONE IN ORDER TO CORRECT FAULTY MATERIALS OR WORKMANSHIP.

GENERAL DESIGN REQUIREMENTS:

1. TWO (2) APPROXIMATELY 12' X 40' MODULES DESIGNED SO THAT TWO MODULES MAY BE JOINED TOGETHER TO FORM A COMPLETE STRUCTURE TO MAINTAIN A POSITIVE ALIGNMENT OF FLOORS, WALLS, AND ROOF, AND TO PERMIT SIMPLE NON-DESTRUCTIVE DETACHMENT FOR FUTURE RELOCATION.
2. EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH AN IMPRINTED (STAMPED NOT ENGRAVED) METAL IDENTIFICATION TAG 3"x1 1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:
 1. MANUFACTURER'S BUILDING NUMBER.
 2. DESIGN WIND LOAD / EXPOSURE
 3. DESIGN ROOF LIVE LOAD
 4. DESIGN FLOOR LIVE LOAD
 5. D.S.A. APPLICATION NUMBER
 6. TAGS PER MODULE ONE ON EXTERIOR AND ONE ON MODULE BEAM AT FRONT OF BUILDING BEARING.
3. EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION AND RELOCATION IS ACCEPTABLE). WHEN MODULES ARE ASSEMBLED JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER METHOD TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF.
4. EACH 12' X 40' MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE. THE MODULE SHALL HAVE LIFT LOGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION IN ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE AGENCY ARCHITECT OR STRUCTURAL ENGINEER, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.
5. INTERIOR MODULE JOINTS IN A MANNER TO JOIN FLASH AND TRIM WITH SAME MATERIAL IN ADJACENT MODULE SO THE MODULE MAY BE RELOCATED WITH MINIMUM CUTTING AND PATCHING.
6. DIMENSIONS THE BUILDINGS SHALL OCCUPY AN AREA OF 960 SQUARE FEET WITH A TOLERANCE OF MINUS 5 SQUARE FEET. THE BUILDINGS SHALL BE 24' X 40'. ALL BUILDINGS SHALL MEET THE SQUARE FOOTAGE REQUIREMENT. LINEAR DIMENSIONS SHALL BE VERTICAL TRIM FINISH LINE TO VERTICAL TRIM FINISH LINE.
7. FASCIA AND REQUIRED OVERHANGS ARE NOT INCLUDED IN THE CALCULATION OF THE SQUARE FOOTAGE. THE BUILDING OVERHANGS, THE ENTRANCE WALL SHALL HAVE A 5' MINIMUM ROOF OVERHANG. THE REAR WALL SHALL HAVE A MINIMUM 2' OVERHANG. FULL LENGTH GUTTERS AND DOWNSPOUTS SHALL BE FURNISHED ON THE SIDES OF EACH OVERHANG AND EACH ROOF EDGE WHERE DRAINAGE OCCURS. THE INTERIOR HEIGHT/FLOOR TO CEILING SHALL BE 8'-8" U.O.M. THE MODULE SHALL



- NOTES**
- INTERIOR**
- Floor: Floor coverings by others.
 - Base: Resilient Cove Base - Best quality, moulded rubber, 1/8" thick, 4" high, moulded top set. Cove: Provide preformed base for square external corners and preformed end stops where base does not abut. Solid color as manufactured by Johnsonite Co., Flexco, or equal. Apply cove to complete perimeter of classroom.
 - Interior walls shall be vinyl covered tackboard U.N.O. applied in one continuous length from floor to ceiling. The tackboard shall be industrial insulation board manufactured specifically as a substitute for vinyl covered wall panels. The board shall be asphalt free, shall have an iron-on coating and shall have a minimum density of 18 lbs. per sq. ft. The vinyl coating shall be made of vinyl vinyl colorated latex color, weighing a minimum of 8 oz. per square yard. The coating backing shall be sheetrock or non-woven fabric. The vinyl coating shall be mechanically laminated, with the long edges wrapped, to the tackboard. Tackboard shall be applied over 1/2" sheetrock or 3/8" plywood sheetrock. The vinyl wall covered panel shall have a Class III flame spread rating. The panel shall be approved for classroom use by The California State Fire Marshal. Reference brand: Vinyl covered tackboard as manufactured by Chaffin-Clark or comparable. Care shall be taken in mounting the tackboard so that the texture of all panels will have the same orientation and color match.
 - Ceiling: Suspend T-Bar System, see sheet 3 for details etc. Materials and installation per CBC 2501.4.5 and IR #4-3 inclusive as applicable to classrooms.
- DOORS & WINDOWS**
- Exterior Doors:** Metal Doors - 3'-0"x7'-0" hollow metal door construction of 1 sheet of 18 ga. steel assembled per CBC242 min and reinforced. (Reinforce both faces for closure) provide flush top on doors. Hardware reinforcement shall be 12 oz. min. for hinges door frame shall be 16 ga. pressed steel from ASTM A36 & C5242. Hardware reinforcement shall be 10 ga. plate. Frames shall be designed with integral stop and trim. Provide (3) anchors per jamb.
- Interior Doors:** 3'-0"x7'-0" Birch clear finish solid core door.
- Exterior Windows:** Provide anodized aluminum frame 5/8" minimum clear glass units, as shown on floor plans. The 5/8" dimension is the minimum thickness for the dual glazed window panel consisting of two lights of glass and the air space. Glazing material shall be:
- Exterior Lite** - 3/16" minimum tempered glass or laminated as - 1 glass of solar gray glass reducing type with a light transmission factor of 45% maximum.
- Interior Lite** - 1/8" minimum clear tempered.
- Minimum air space shall be 1/4".
- Splice - Bent or sealed corner aluminum with desiccant.
- Seal - Butyl primary seal and polysulfide or silicone secondary seal.
- Certification - All glazing to be certified in accordance with ASTM E-773, E-774.
- Header height shall be the same as the door. All operable sash shall have aluminum screens. Windows shall not be mounted to the exterior plywood surface. All windows shall meet the AAMA 50101-88 voluntary spec. For aluminum prime windows and sliding glass (ANSI), commercial grade.

TYPICAL EXTERIOR WINDOW INSTALLATION NOTE:
SEE MANUF. SPECS FOR INSTALLATION
USE .131" X 2 1/2" @ 18" O.C. VERTICALS
USE .131" X 2 1/2" @ 24" O.C. HORIZONTALS

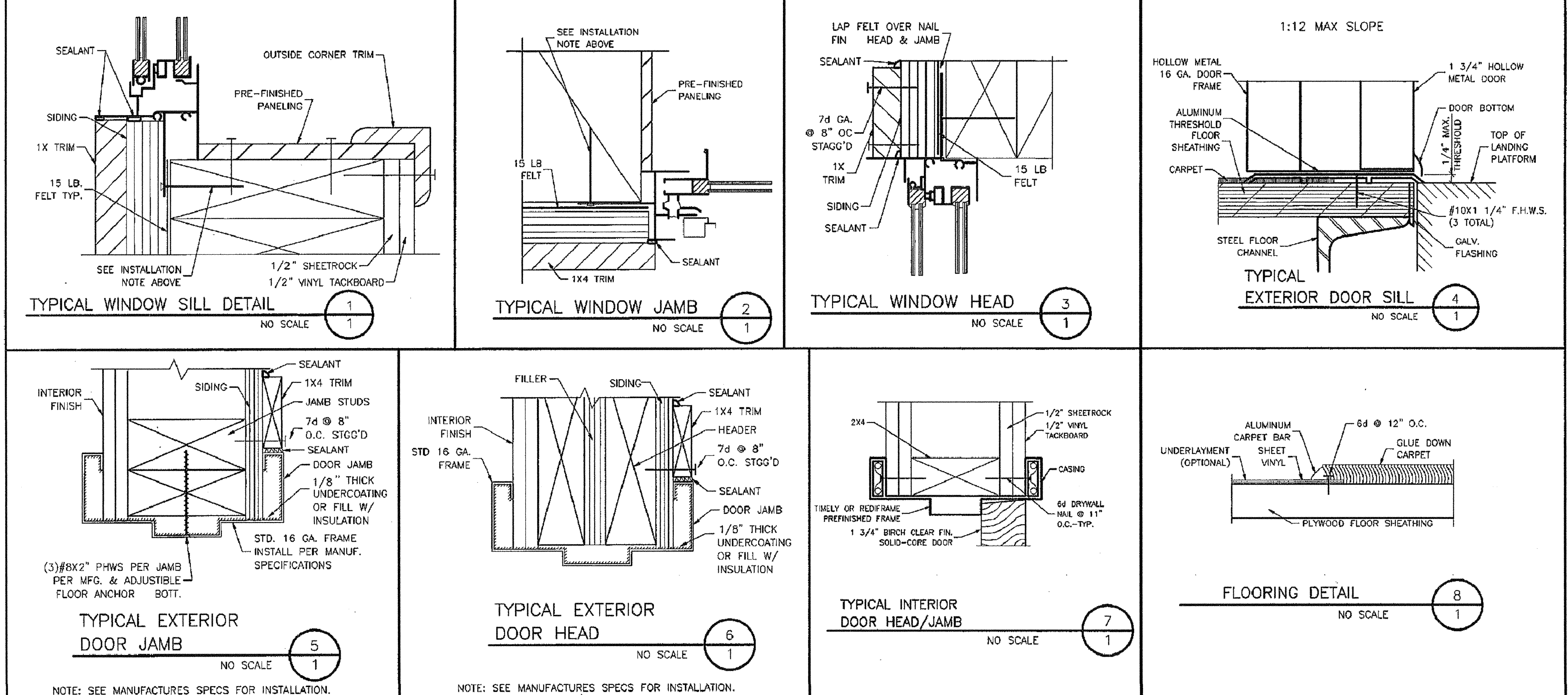
DOOR HARDWARE SCHEDULE

(A)	EXTERIOR DOOR LOCKSET BY LEVER SCHEDULE D73FD
(B)	INTERIOR PASSAGE LOCK SCHEDULE A10 W/ SATURN LEVER
(C)	INTERIOR PRIVACY LATCH SCHEDULE A10S W/ SATURN LEVER

Exterior door:
A) Hinge: Hager 4-1/2x4-1/2" bulb.
B) 1/2" BUSHING 1/2" per each hinge with set screw in bore and 5/8" bearing design.
C) Cover: Hager 5000A or SOGEEI series, LCN 1490
D) Set screw or equal (5 lbs. max. pressure)
E) Manufacturer: All exterior door hardware shall be manufactured with Perko 2000, Wire W0007, at door top and head or equal.

Interior door:
A) Hinge: Hager 2 1/2" x 2 1/2" x 1/2" aluminum with Perko 216 AV Ultra 10x22 door bottom.

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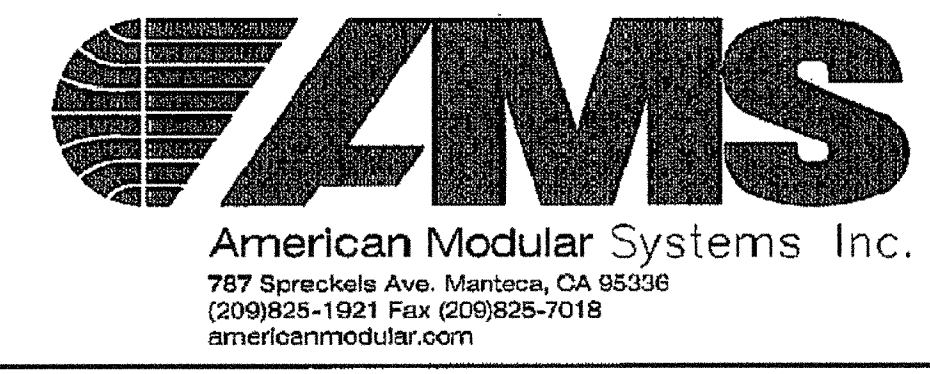
- FIRE EXTINGUISHER**
- Each portable classroom shall be equipped with pressure type fire extinguishers with 2ABC UL rating. To be mounted on the interior wall of the building near the doorway(s) at a height of 4 feet to mounting bracket. Fire extinguishers shall be totally charged and have a dial indicating the state of charge.
- MARKERBOARD SPECIFICATIONS**
- Chalkboards(standard) shall have green facing sheet. Markerboards(extra cost option) Markerboards shall be 5 mil thick melamine facing sheet suitable to accept dry erase felt markers. The facing sheet shall be laminated, using hot melt adhesive, to a medium density particleboard substrate with a minimum density of 45 lb/cu. ft. The panel shall have a full backing. The panels shall have extruded aluminum molding and channel with a minimum of 2-15/16" projection from the face of the panel. A full length map rail shall be provided with cork insert and end stops. The map rail end channel are to incorporate a channel to wrap around the panel. Three (3) map hooks, with clips, per panel shall be provided for each classroom. Each classroom shall be 2 oz. 4x4 panels installed side by side to make a 4x18 panel, centered on one of the long wall. Reference brand: Chaffin-Clark Co. series 500. Attach directly to studs and blocking w/ #8x3" oval head wood screw @ 32" o.c. horizontally and @ 24" o.c. vertically.



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DATE: 8-24-2003

BASED ON PC 02-104915

24 X 40
RELOCATABLE
CLASSROOMS



CUSTOMER:
MOBILE MODULAR MANAGEMENT

MMM #368 THRU #371

FLOOR PLAN & NOTES

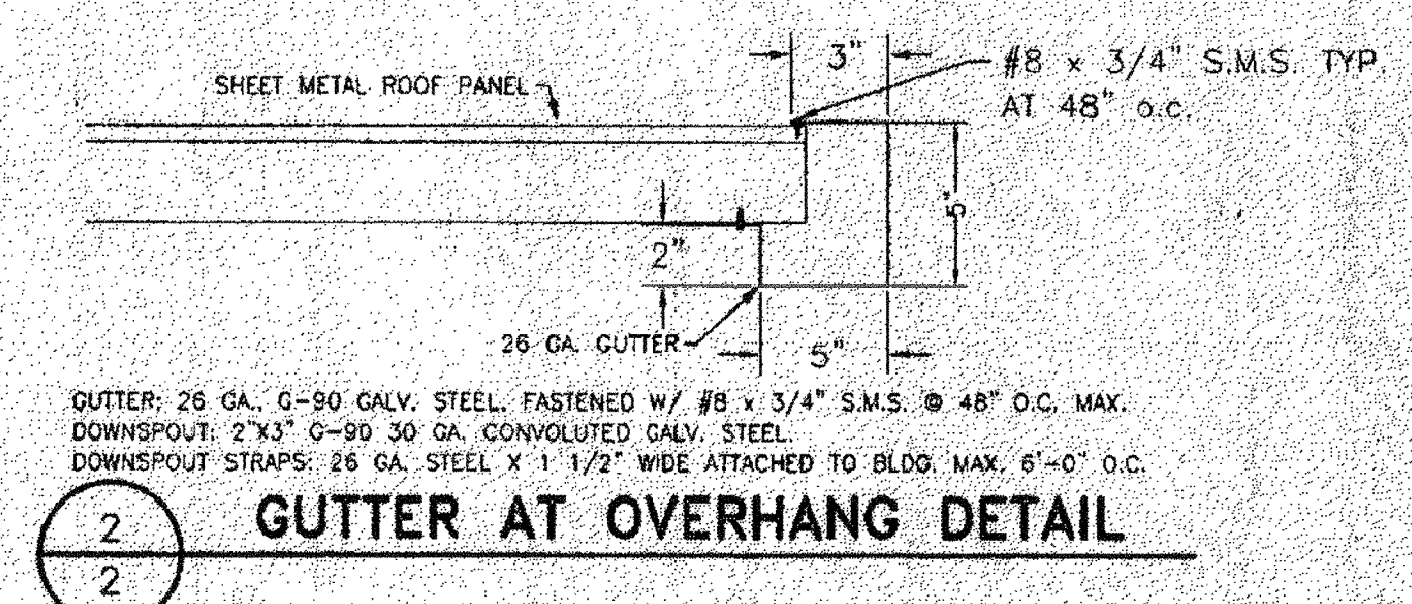
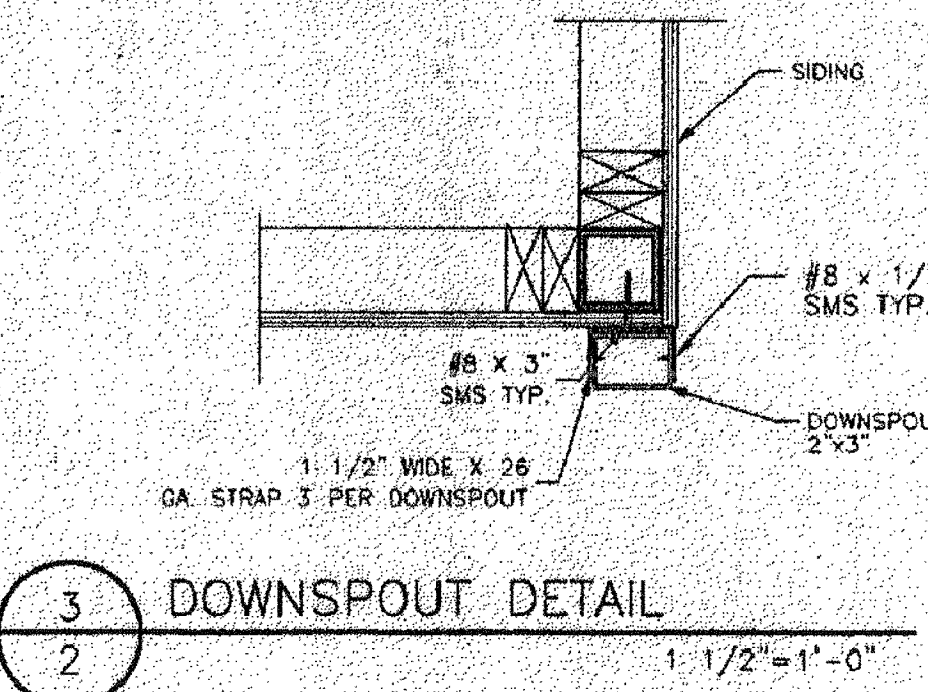
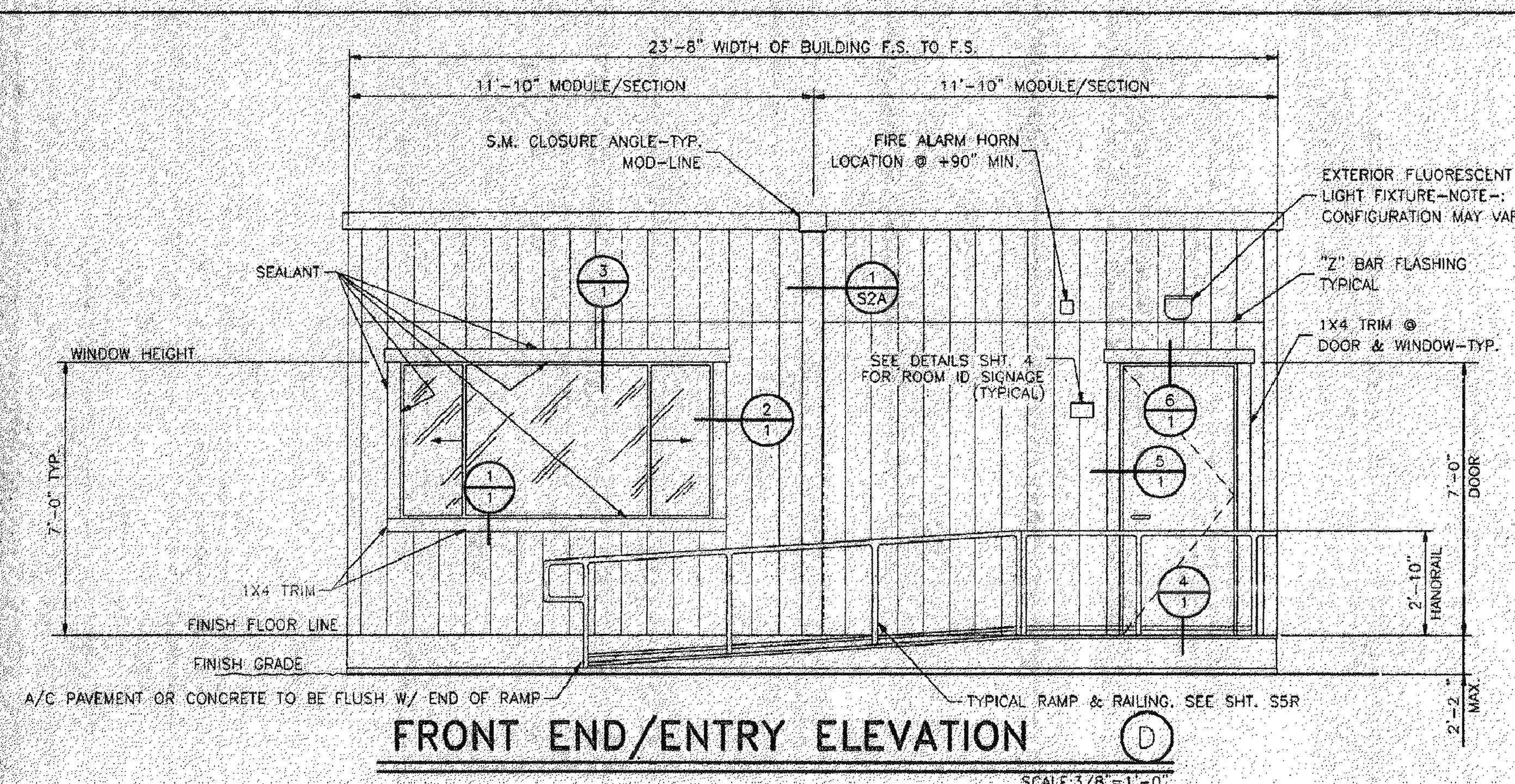
DATE: 08-22-03
SCALE: NONE
DRAWN BY: Y.A.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

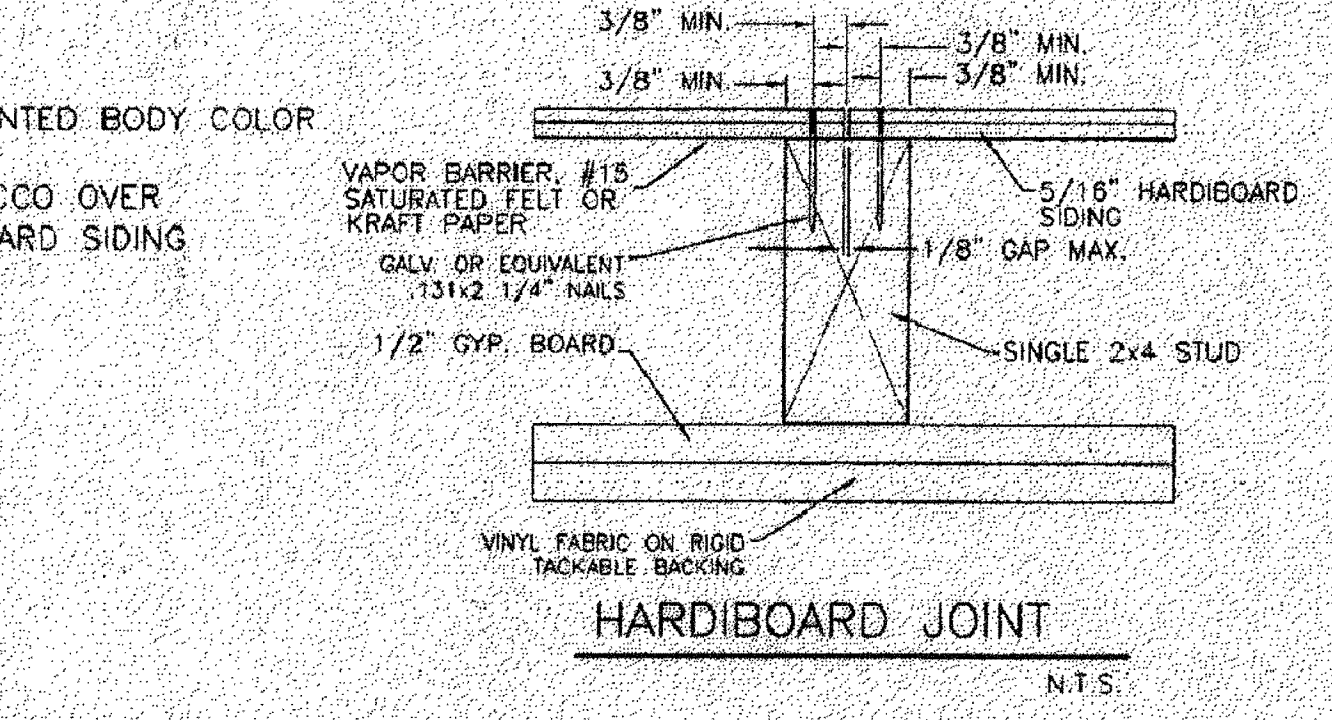
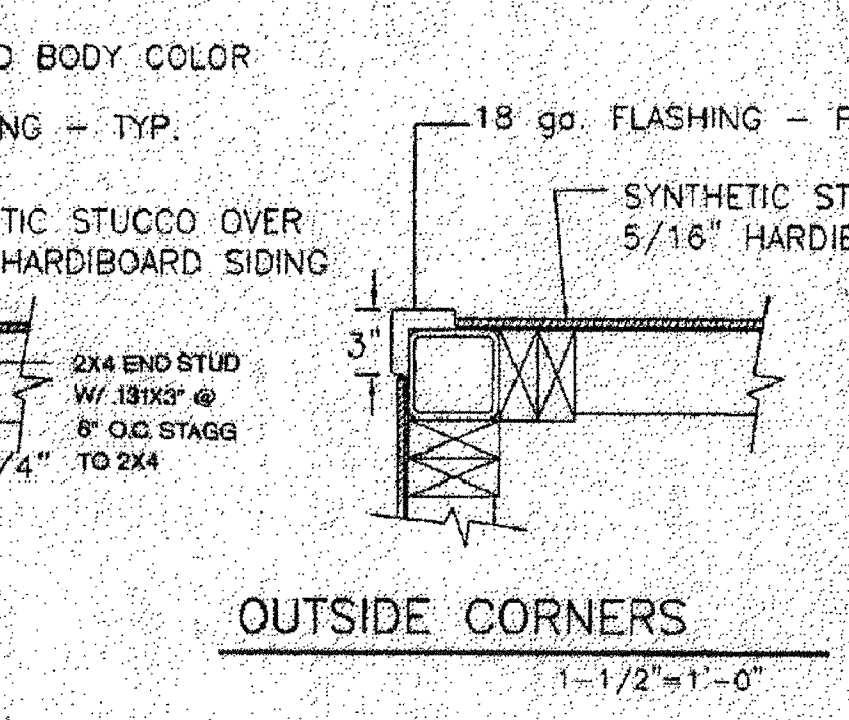
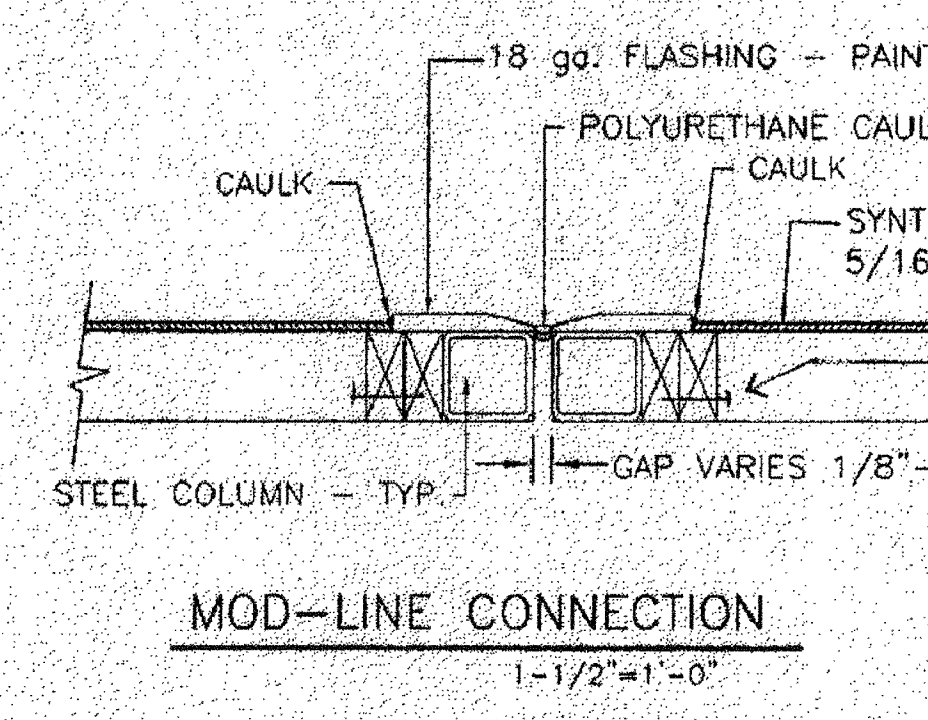
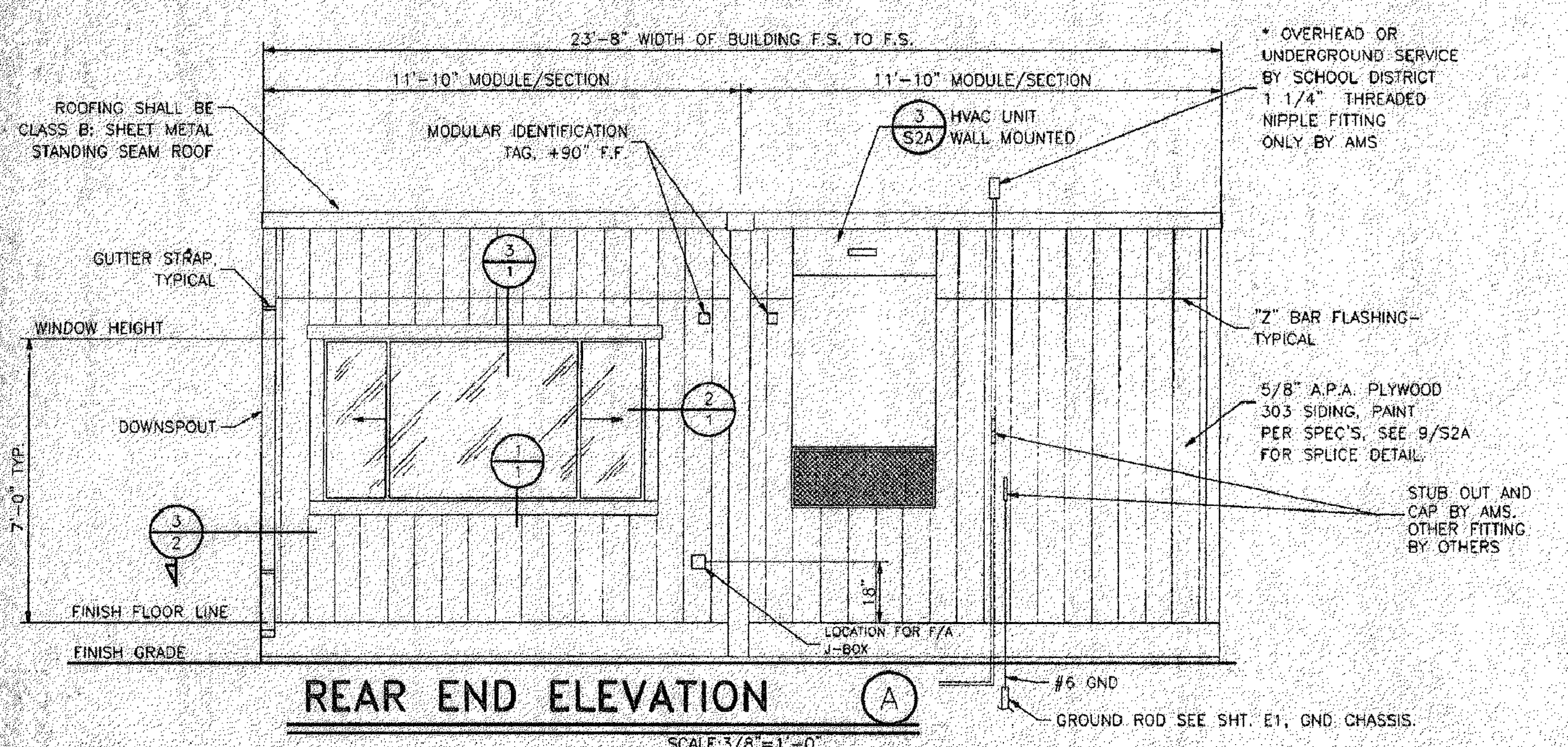
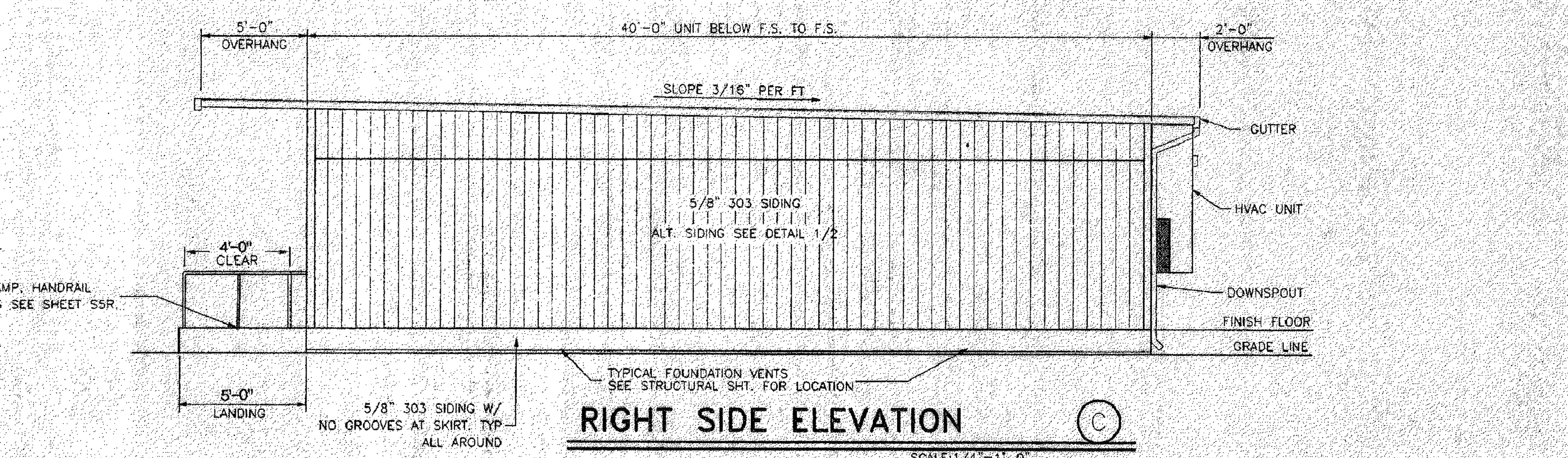
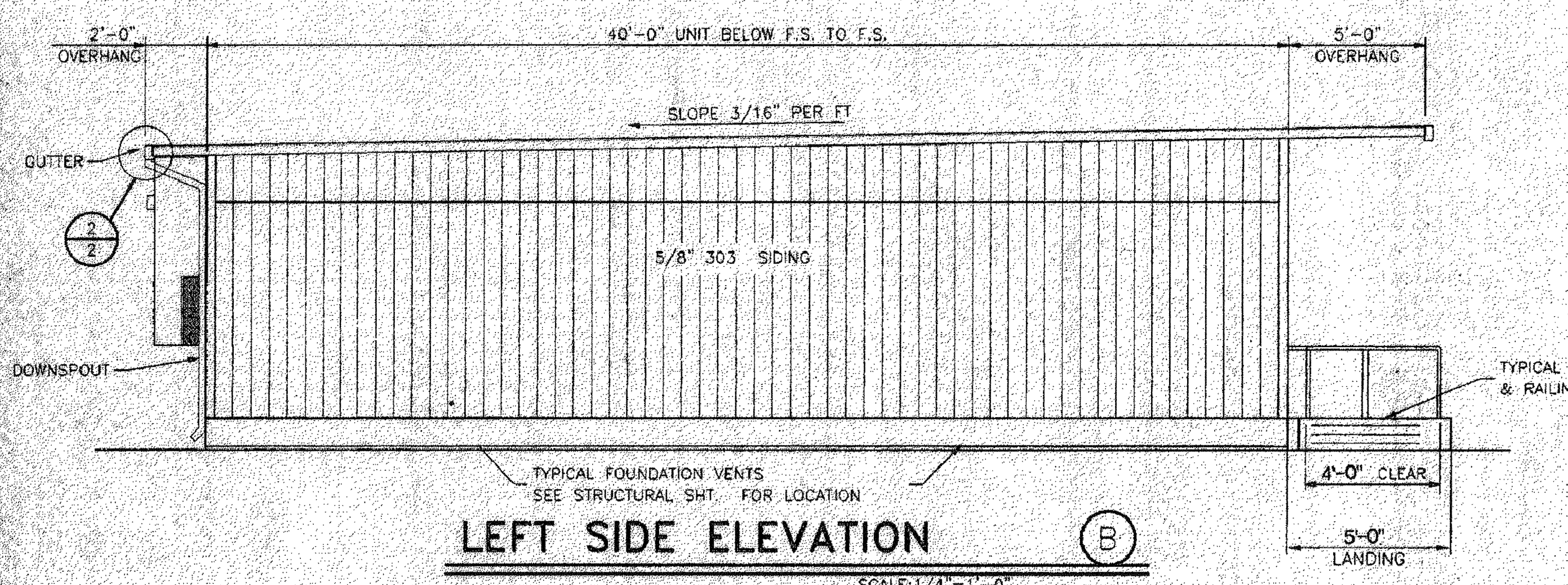
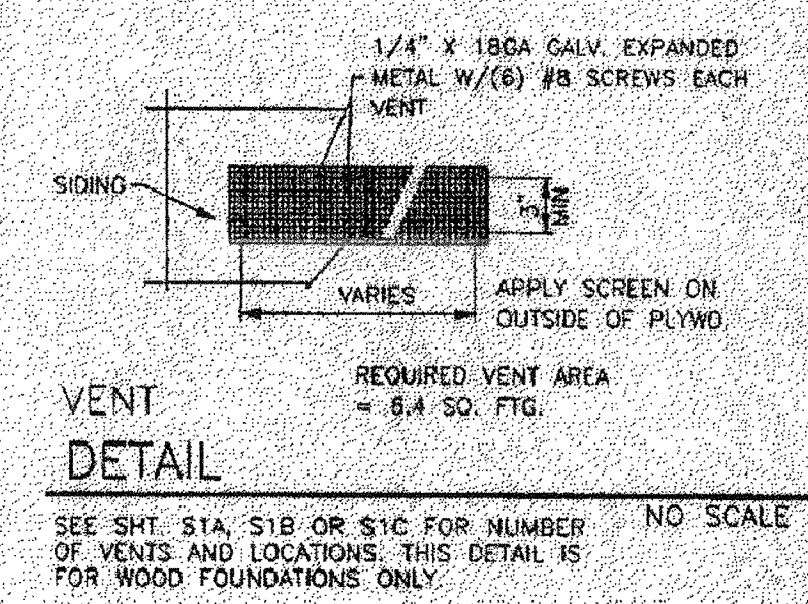
PROJECT No.

SHEET No.
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ROOM ID SIGNAGE SEE SHEET 4 DETAILS E/4 & 1/4
NOT A PART OF THIS CONTRACT (NOT PROVIDED BY A.M.S.)

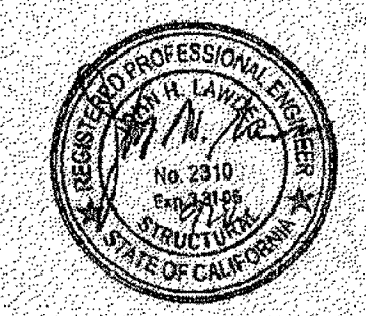
NOTE: WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS OR SPACES, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH THE FOLLOWING: CONTRACTED GRADE 2 BRAILLE SHALL BE USED. DOTS SHALL BE 1/10 INCH ON CENTER IN EACH CELL WITH 2/10 INCH SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM 1/40 INCH ABOVE BACKGROUND. SIGNS SHALL BE INSTALLED ON WALL ADJACENT TO LATCH SIDE OF DOOR, WHERE THERE IS NO SPACE ON THE LATCH SIDE, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISH FLOOR TO THE CENTER OF THE SIGN.



DETAILS FOR ALTERNATE SYNTHETIC STUCCO EXTERIOR (1/2)

TYPICAL HARDIBOARD SIDING NAILING
131" x 2-1/4" @ 6" O.C. PANEL EDGES (ALL EDGES BLOCKED)
131" x 2-1/4" @ 6" O.C. FIELD
MAINTAIN FASTENERS A MIN. OF 2 INCHES FROM CORNERS AND 3/8 INCHES FROM PANEL EDGE.

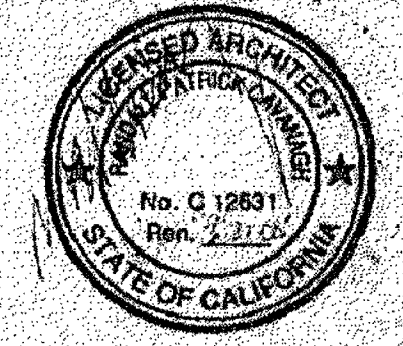
SYNTHETIC STUCCO SHALL BE 100% ACRYLIC ELASTOMERIC EMULSION COATING AS MFG BY MULTI-COAT PRODUCTS OR EQUAL. USE MULTI-TEX STUCCO MIX COATING SYSTEM.



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DATE: 0-26-2005

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OFFICE OF REGULATION SERVICES
PC 02-104916
AC: FLS. 88 100
DATE: JUL 03 2005

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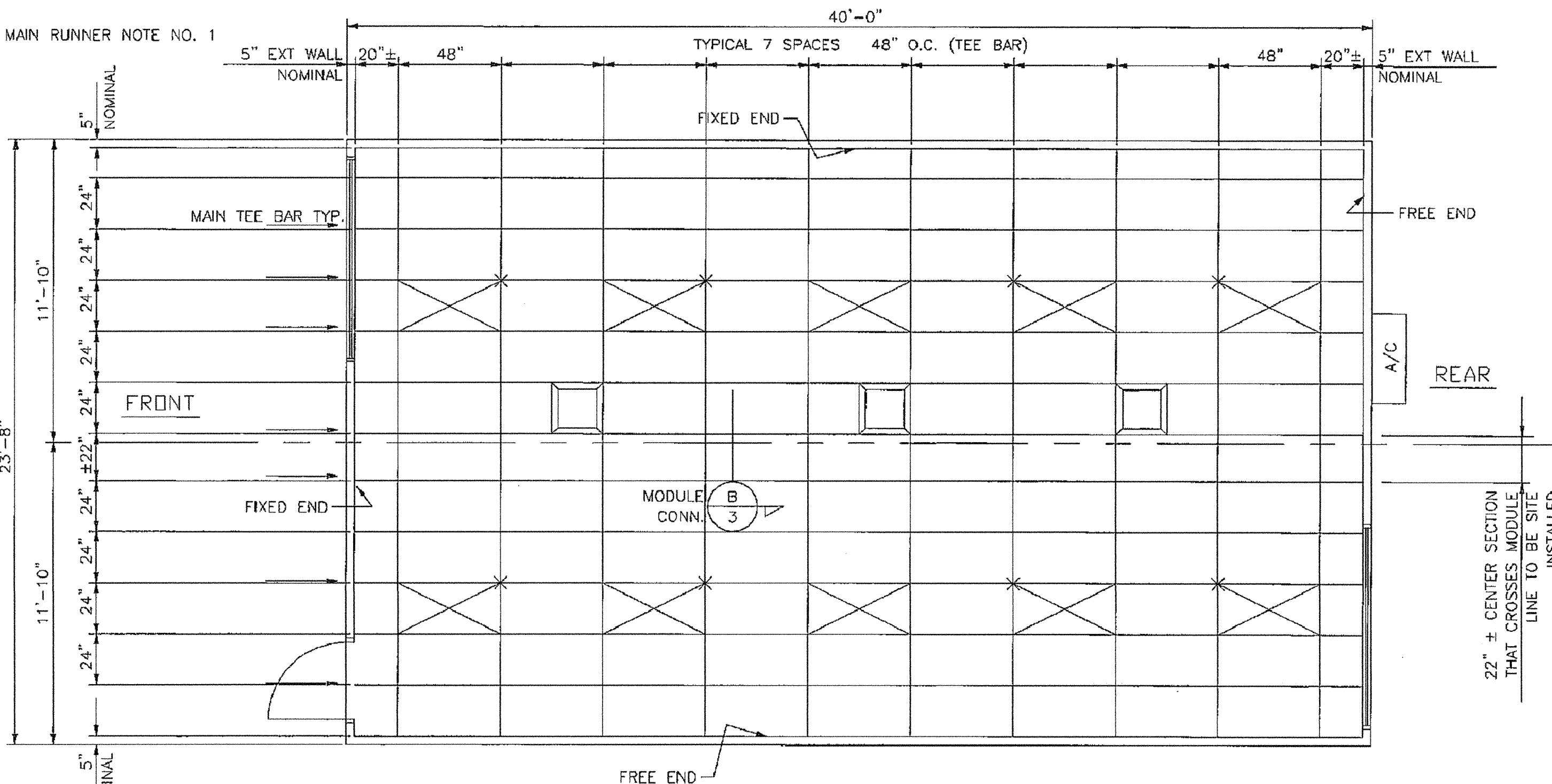
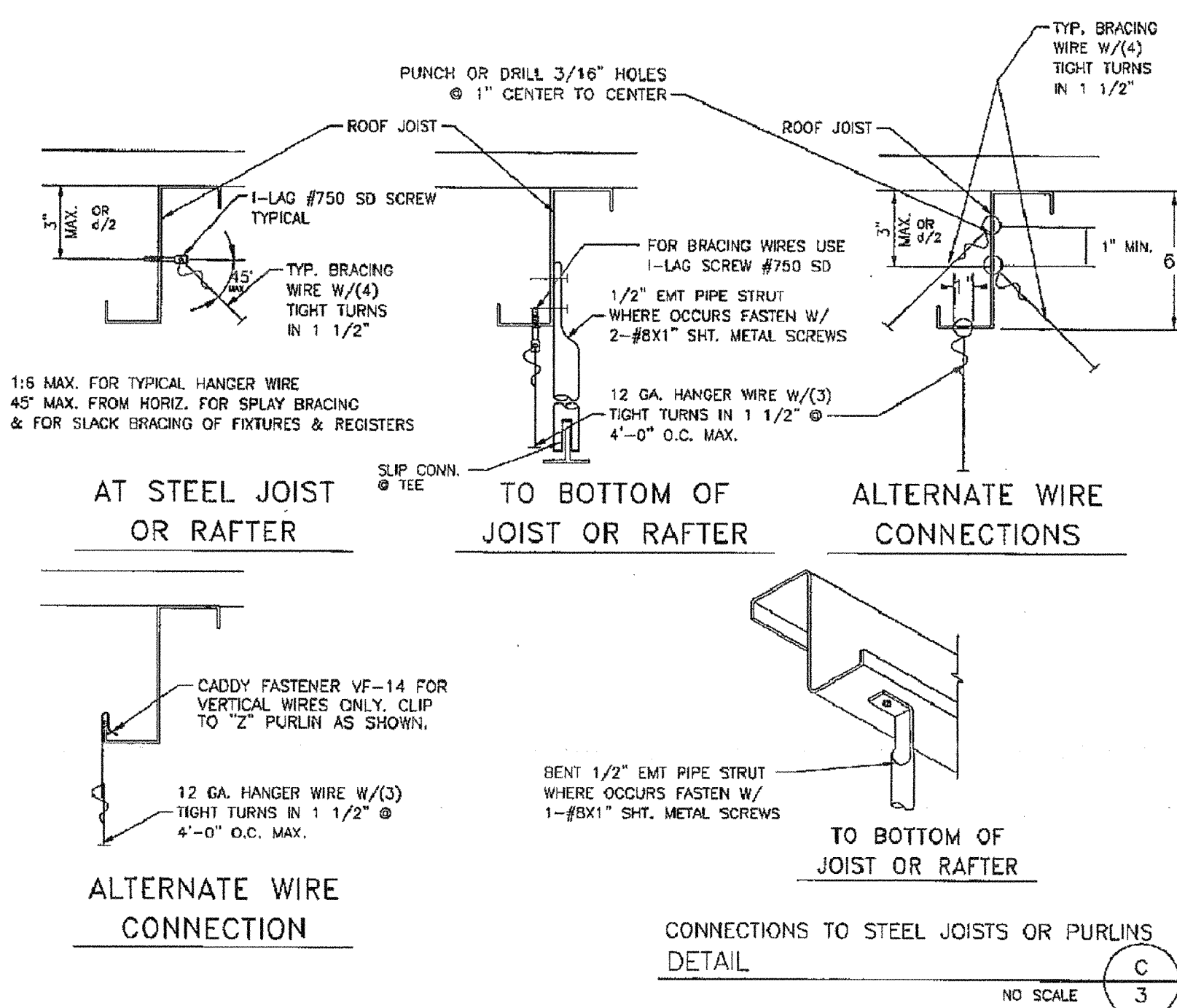
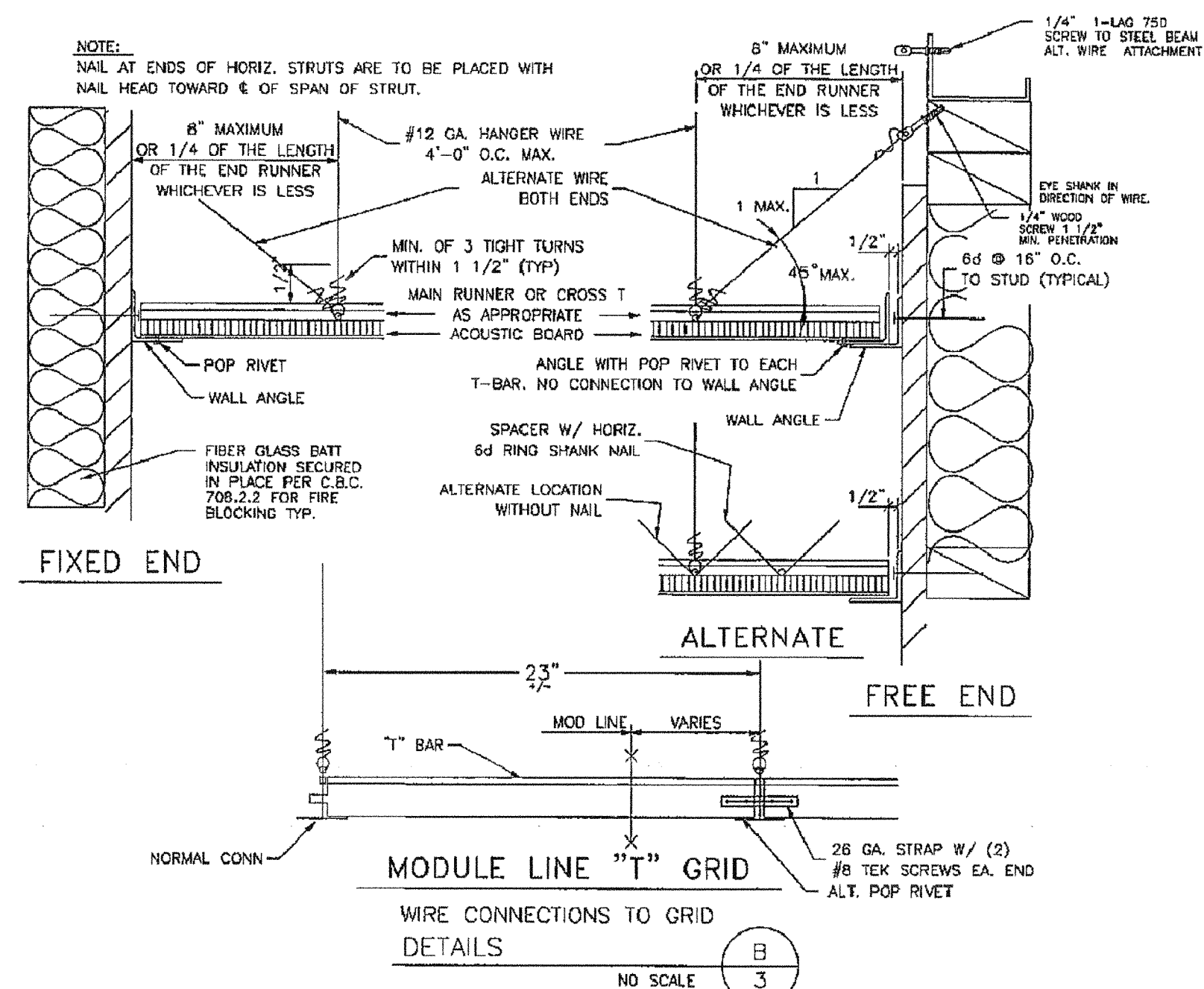
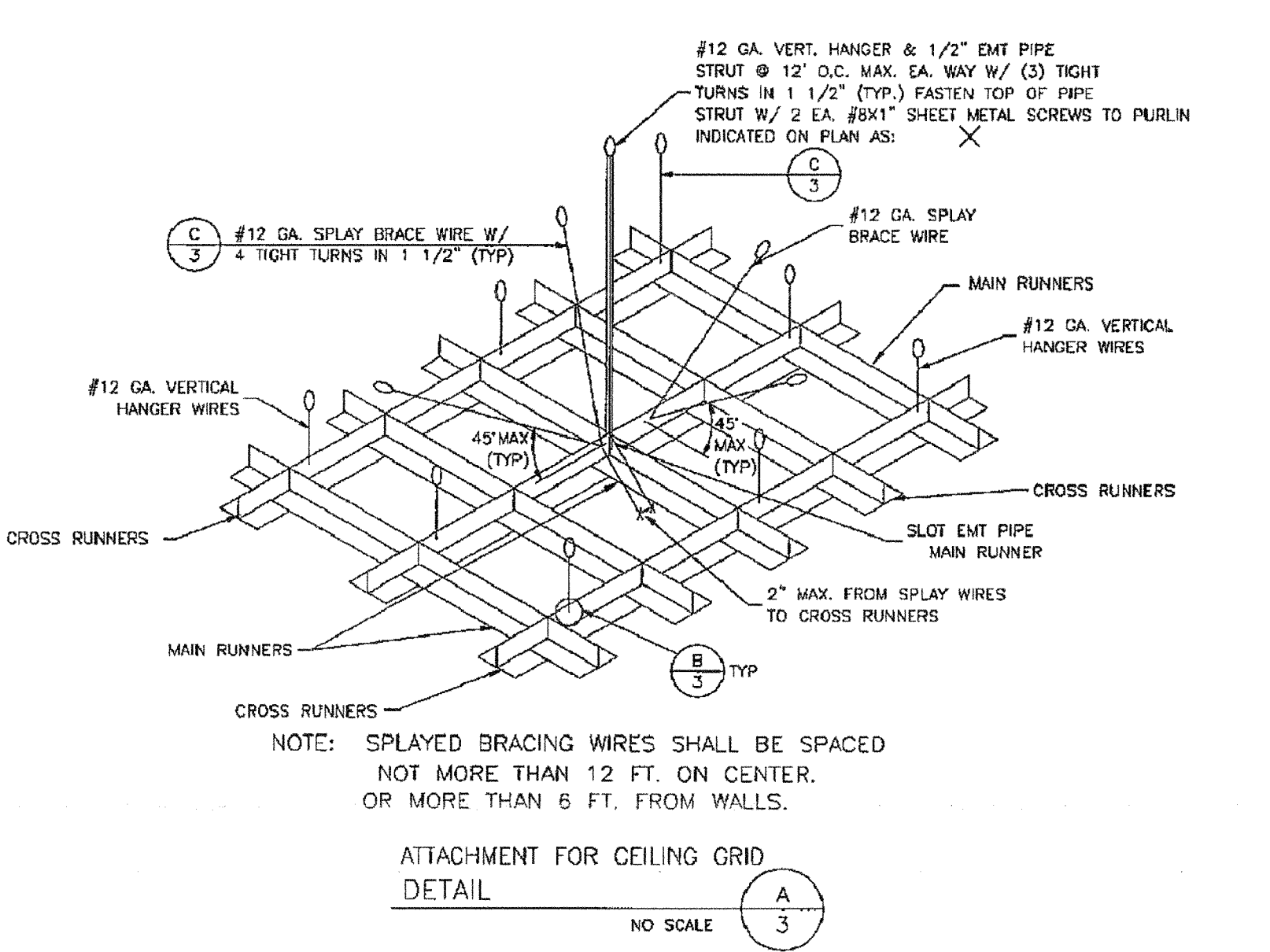
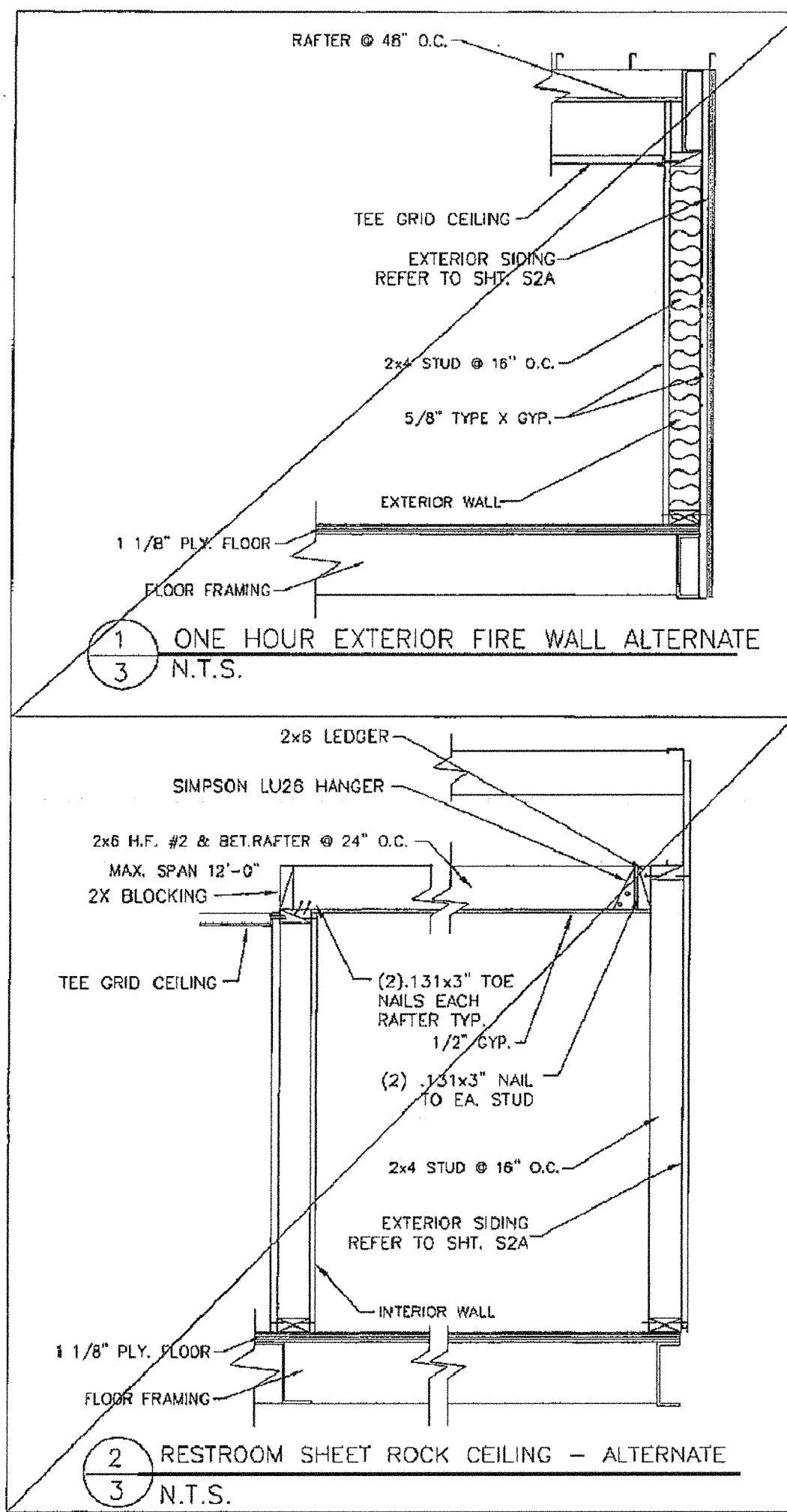
CUSTOMER: _____
EXTERIOR ELEVATIONS

DATE: 04-28-03
SCALE: NONE
DRAWN BY: M.H.
CHECKED BY: _____
SERIAL NO. _____

REVISIONS			
NO.	DATE	DESCRIPTION	DATE

PROJECT NO. _____
SHEET NO. **2**

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
DATE: 11/01/18



CEILING TEE BAR GRID LAYOUT WITH LIGHT FIXTURES

METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING

- 12 GA. (MIN) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0" GRID SPACING, ALONG MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY DSA.
- PROVIDE 12 GA HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS AT THE PERIMETER OF THE CEILING AREA.
- PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREA. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTERBRACED WIRES.
- CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 1/2 INCH FREE OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 1/2 INCH CLEAR OF WALL.
- AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 1/8 GA WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED, WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 12" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
- PROVIDE SETS OF 4-#12 GA. SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:
 - (A) FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
 - (B) PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS.
- FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
- SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC., IT IS ACCEPTABLE TO ATTACH LIGHT-WEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL DIAMETER, TO HANGER WIRES USING CONNECTORS ACCEPTABLE TO DSA.
- ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES.
- FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF 2-#12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
- CLASSIFICATION OF CEILING GRID IS "HEAVY DUTY" PER ASTM C635. MANUFACTURER'S CATALOG NUMBER - MAIN RUNNER HEAVY DUTY MAIN TEE OR EQUAL PER TABLE A. MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER PER TABLE A. MANUFACTURER'S CATALOG NUMBER OF DETAIL FOR RUNNER SPLICE N/A. ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE ASTM FLAME SPREAD CLASS 1, 24" X 48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NOISE REDUCTION COEFFICIENT OF 0.85 MINIMUM. MAXIMUM SMOKE DENSITY NOT TO EXCEED 450.

MANUFACTURER	MAIN TEE	H.D. 4" CROSS TEE	H.D. 2" CROSS TEE
DORNY/USG	DX-76	DX-424	DX-218
ARMSTRONG	7301	7241	7203
CHICAGO MET.	200-01	1204-01	1226-01

NOTE: ALL GRID COMPONENTS SHALL BE BY SAME MANUFACTURER

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

FILE NO. 02 105605

AC / FLS / SS / DATE 8-26-2005

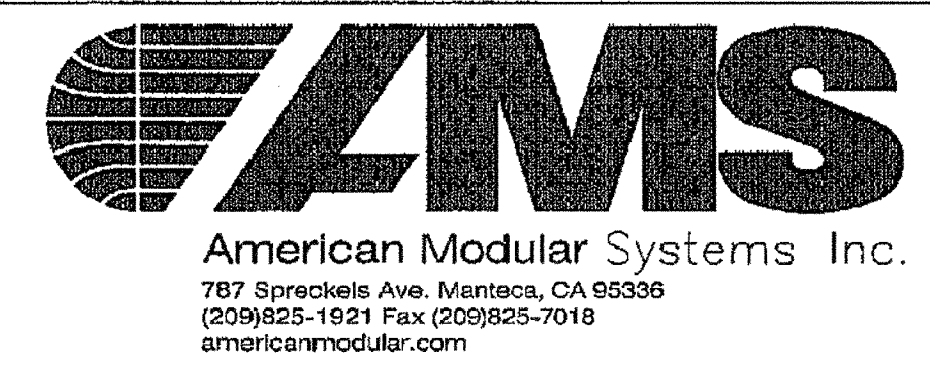
PROFESSIONAL ENGINEER STATE OF CALIFORNIA No 2310

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES

AC / FLS / SS / DATE

BASED ON PC 02-104915

24 X 40 RELOCATABLE CLASSROOMS



CUSTOMER: MOBILE MODULAR MANAGEMENT

MMM #368 THRU #371

CEILING GRID, DETAILS AND NOTES

DATE: 08-25-03

SCALE: NONE

DRAWN BY: Y.A.

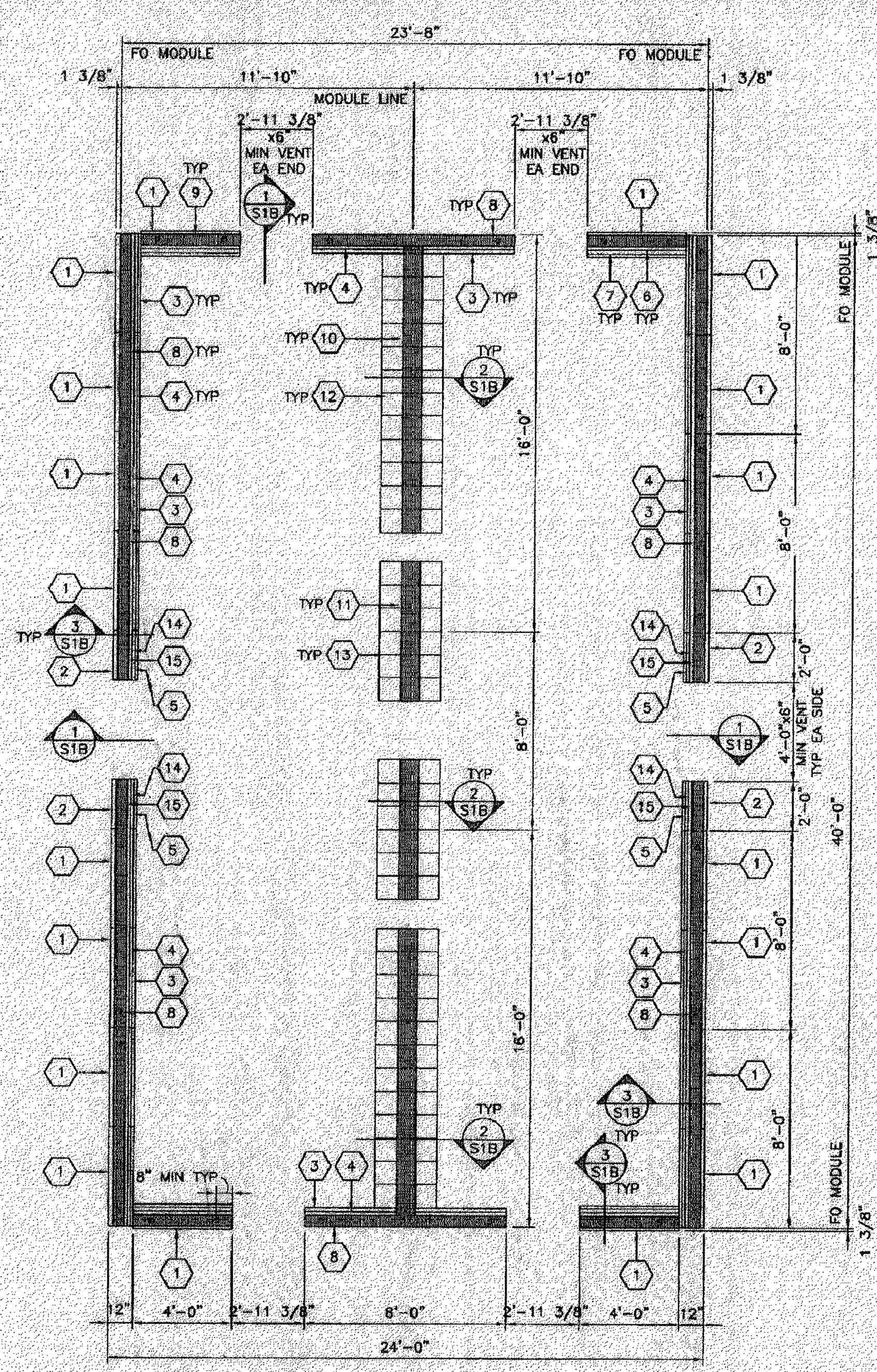
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SERIAL NO.

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No.

SHEET No. 3



FOUNDATION PLAN

- 1/4" = 1'-0"
- LEGEND:**
- 1 1/2"x12" WIDE x 48" LONG, UNO ON PLAN, PT STRUCTURAL PLYWOOD W/ FACE GRAIN IN SHORT DIRECTION (CDX PLYWOOD)
 - 2 1/2"x12" WIDE x 24" LONG, UNO ON PLAN, PT STRUCTURAL PLYWOOD W/ FACE GRAIN IN SHORT DIRECTION (CDX PLYWOOD)
 - 3 2x10x8'-0" LONG, UNO ON PLAN, PT R ALT. 2x10 REDWOOD
 - 4 2x8x8'-0" LONG, UNO ON PLAN, R
 - 5 2x10x2'-0" LONG, UNO ON PLAN, PT R
 - 6 2x8x4'-0" LONG, UNO ON PLAN, R
 - 7 2x10x4'-0" LONG, UNO ON PLAN, R (PT R WHERE PLYWOOD DOES NOT OCCUR)
 - 8 MULTIPLE 2x8x8'-0" LONG, UNO ON PLAN, NAILER AS REQ'D FOR HEIGHT
 - 9 MULTIPLE 2x8x4'-0" LONG, UNO ON PLAN, NAILER AS REQ'D FOR HEIGHT
 - 10 2x10 R
 - 11 2x10 BLKG, SEE 2/S1B
 - 12 2x12x2'-8" PT R OR 2x10x2'-8" PT R OR 2x8x2'-8" PT R, SEE 2/S1B
 - 13 2x12x2'-6" PT R OR 2x10x2'-6" PT R OR 2x8x2'-6" PT R, SEE 2/S1B
 - 14 2x8x2'-0" LONG, UNO ON PLAN, R
 - 15 MULTIPLE 2x8x2'-0" LONG, UNO ON PLAN, NAILER AS REQ'D FOR HEIGHT

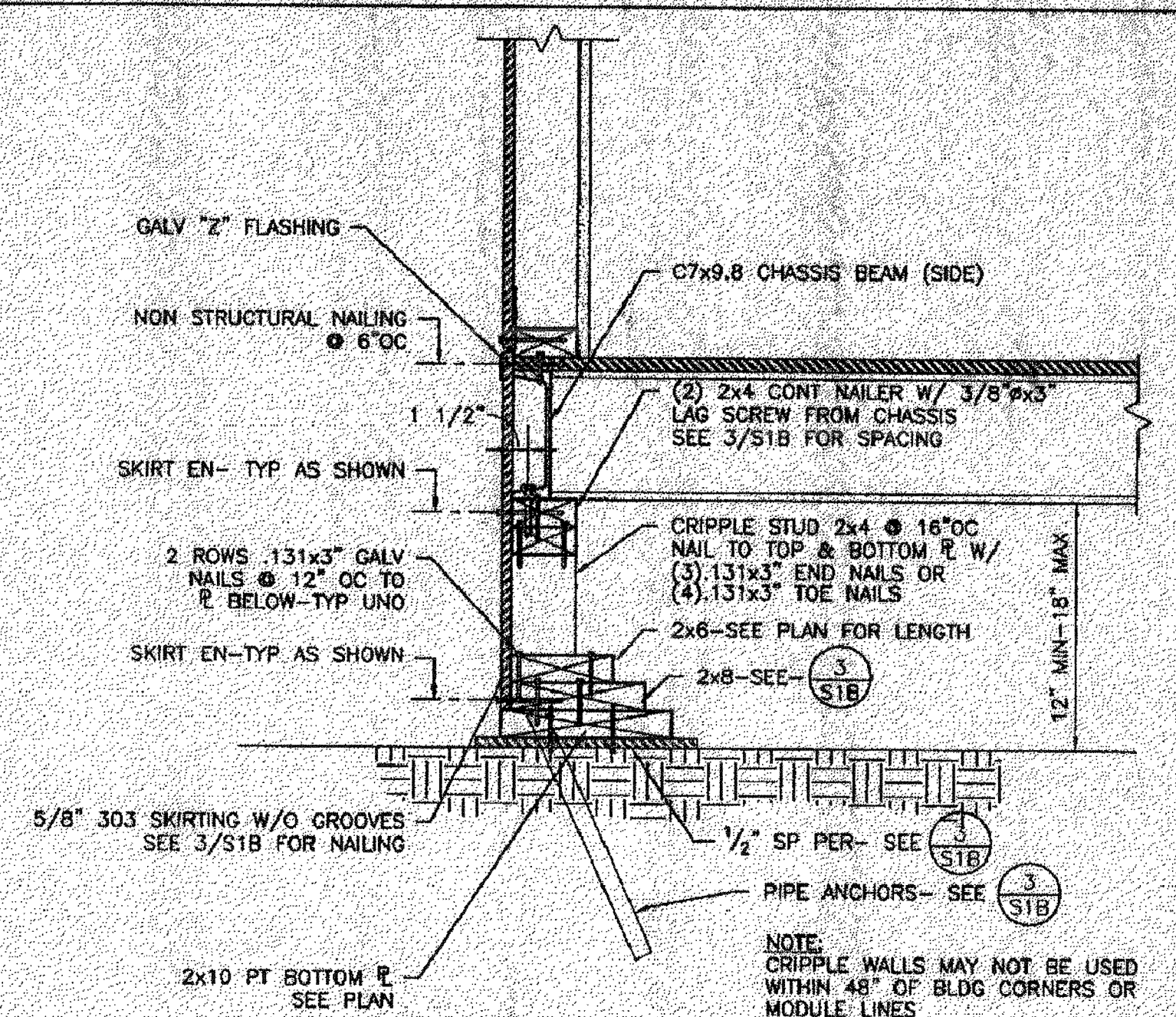
1" GALVANIZED PIPE LOCATIONS-TYPICAL

- NOTES:**
- TOPS OF WOOD PADS TO BE LEVEL.
 - DO NOT INSTALL BUILDINGS IN AREAS OF WATER LINES.
 - SITE TO BE GRADED TO PREVENT WATER PONDING BENEATH THE STRUCTURE.
 - FOUNDATION PLYWOOD TO BE CUT PERPENDICULAR TO THE FACE GRAIN.
 - PER THE CONTRACT OF THIS PROJECT-THE BUILDING PAD MUST BE A MINIMUM OF 30'x30' AND SHALL NOT EXCEED 6" OUT OF LEVEL IN ANY DIRECTION.
 - VENT AREA REQUIRED=(18x8)=6.4 SF VENT AREA PROVIDED=7.0 SF

- SILL RESTRAINT:**
- ON SOIL: 1" HOT DIPPED GALV PIPE W/ 12" MIN PENETRATION BELOW SOIL SURFACE @ 10'-0" OC, MIN 2 EA 2x R. DRILL SILL 1 1/4" MAX. ALT. 60d HOT DIPPED GALV NAILS THRU PREDRILLED SILL @ 32" OC
- ON A/C PAVING: 1" HOT DIPPED GALV PIPE W/ 12" MIN PENETRATION BELOW PAVING SURFACE @ 10'-0" OC, MIN 2 EA 2x R. DRILL SILL 1 1/4" MAX. ALT. 60d HOT DIPPED GALV NAILS THRU PREDRILLED SILL @ 32" OC
- ON CONC PAVING: 1" HOT DIPPED GALV PIPE W/ 12" MIN PENETRATION BELOW PAVING SURFACE @ 10'-0" OC, MIN 2 EA 2x R. DRILL SILL 1 1/4" MAX. ALT. 1/2" HILT/KB'S THRU SILL @ 32" MIN CONC EMBEDMENT @ 5'-0" OC MAX.

FOUNDATIONS:

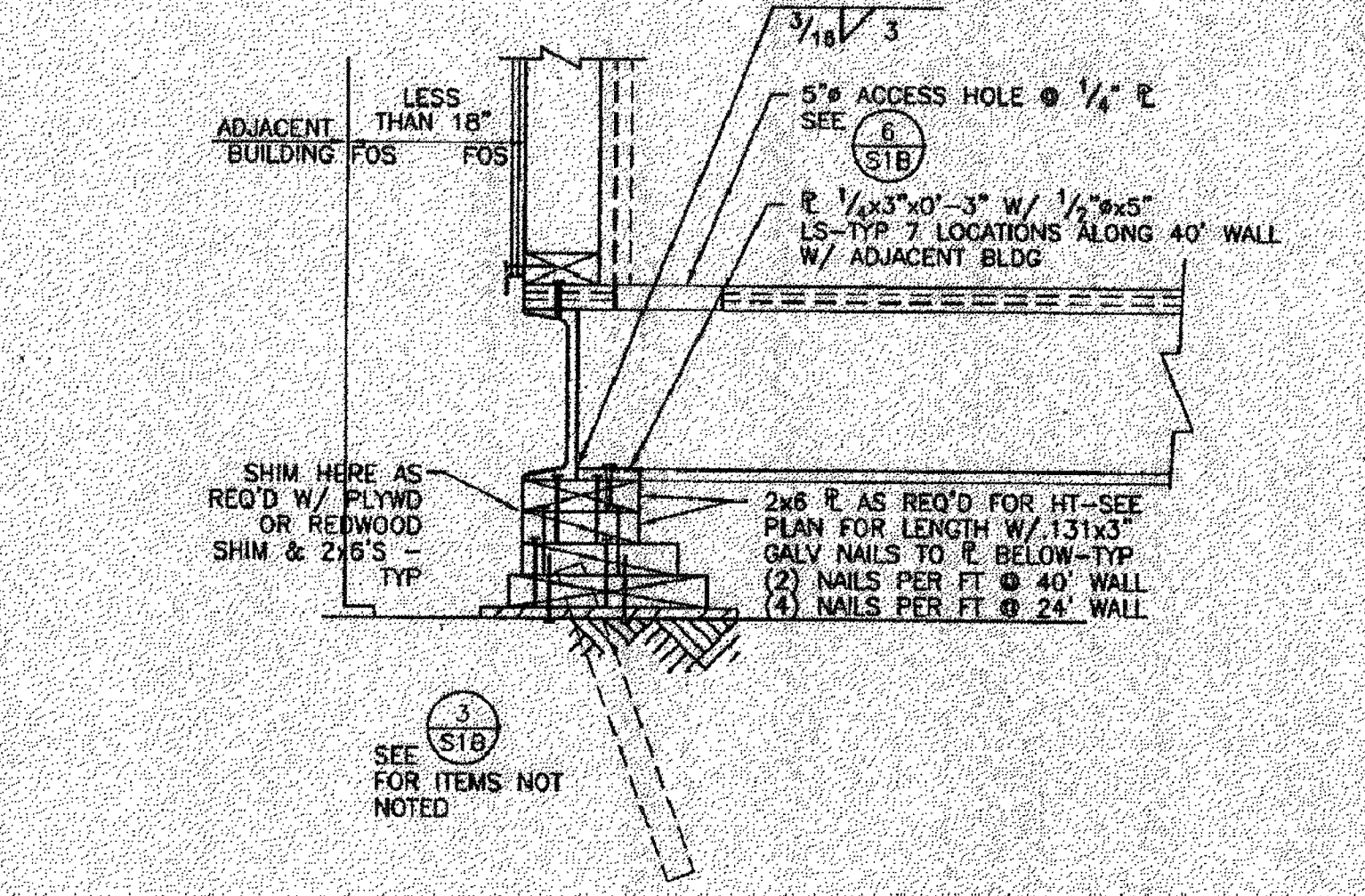
ALL FOUNDATION MATERIALS IN CONTACT WITH THE GROUND SHALL BE PRESSURE TREATED EXCEPT SHIMS MAY BE REDWOOD, HEM FIR OR CEDAR. PRESSURE TREATED DOUGLAS FIR, HEM FIR, PLYWOOD ETC. SHALL BE VERIFIED BY A CERTIFICATE OF TREATMENT STATING THE MATERIAL IN THIS UNIT WAS TREATED PER 2001 CALIFORNIA BUILDING CODE. ALL MATERIAL FOR USE IN GROUND CONTACT SHALL BE STAMPED "FOR GROUND CONTACT" (LP22). ALL MATERIAL NOT USED IN GROUND CONTACT SHALL BE HF#2 OR DF#2 FOR ABOVE GROUND USE. THE IN-PLANT INSPECTOR SHALL VERIFY THAT ALL PRESSURE TREATED FOUNDATION MATERIAL IS CUT FROM AMPB STAMPED STOCK AND THAT ALL CUTS AND HOLES ARE RE-TREATED PER SPECIFICATIONS LP-2 AND LP-22 MATERIAL SHALL BE Banded SEPARATELY FOR SHIPMENT TO THE JOB SITE. THE IN-PLANT INSPECTOR'S VERIFICATION OF EACH Banded UNIT SHALL BE ATTACHED TO THE MATERIAL. CONCRETE OR CONCRETE BLOCK FOUNDATIONS ARE NOT ALLOWED. THE FOOTING DESIGN SHALL PROVIDE FOR SHIMS AND BLOCKS NECESSARY TO PERMIT INSTALLATION ON SITES NOT LEVEL, BUT WITHIN TOLERANCE ALLOWED. INSTALLATION SHALL BE PERMITTED ON EITHER SOIL, CONCRETE OR A/C PAVING, HAVING SUITABLE DESIGN BEARING CAPACITY. THE BUILDINGS SHALL BE SECURELY FASTENED TO THE FOUNDATIONS. THE FOUNDATIONS AND THE METHOD OF FASTENING SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT AND DSA. PADS SHALL BE DESIGNED FOR A MAXIMUM OF 1000 PSF LOAD ON THE SOIL. PADS SHALL NOT BE PLACED ON TURF.



FOUNDATION DETAIL

1 1/2" = 1'-0"

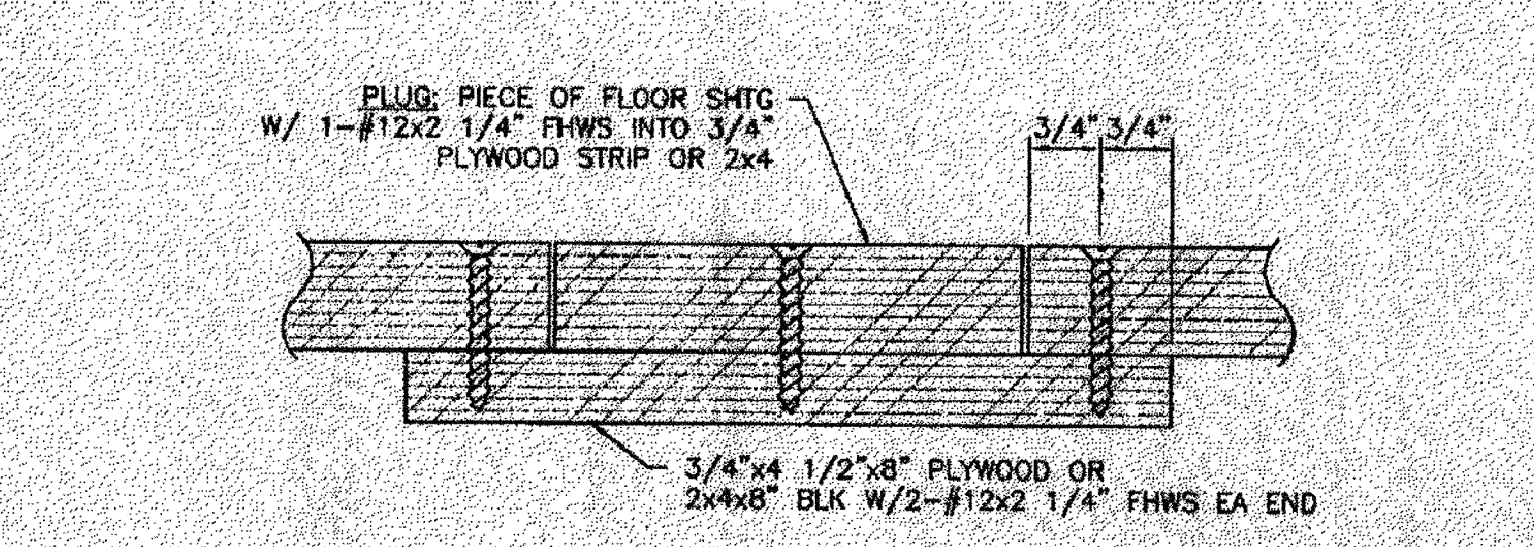
NOTE: CRIPPLE WALLS MAY NOT BE USED WITHIN 48" OF BLDG CORNERS OR MODULE LINES



FOUNDATION DETAIL

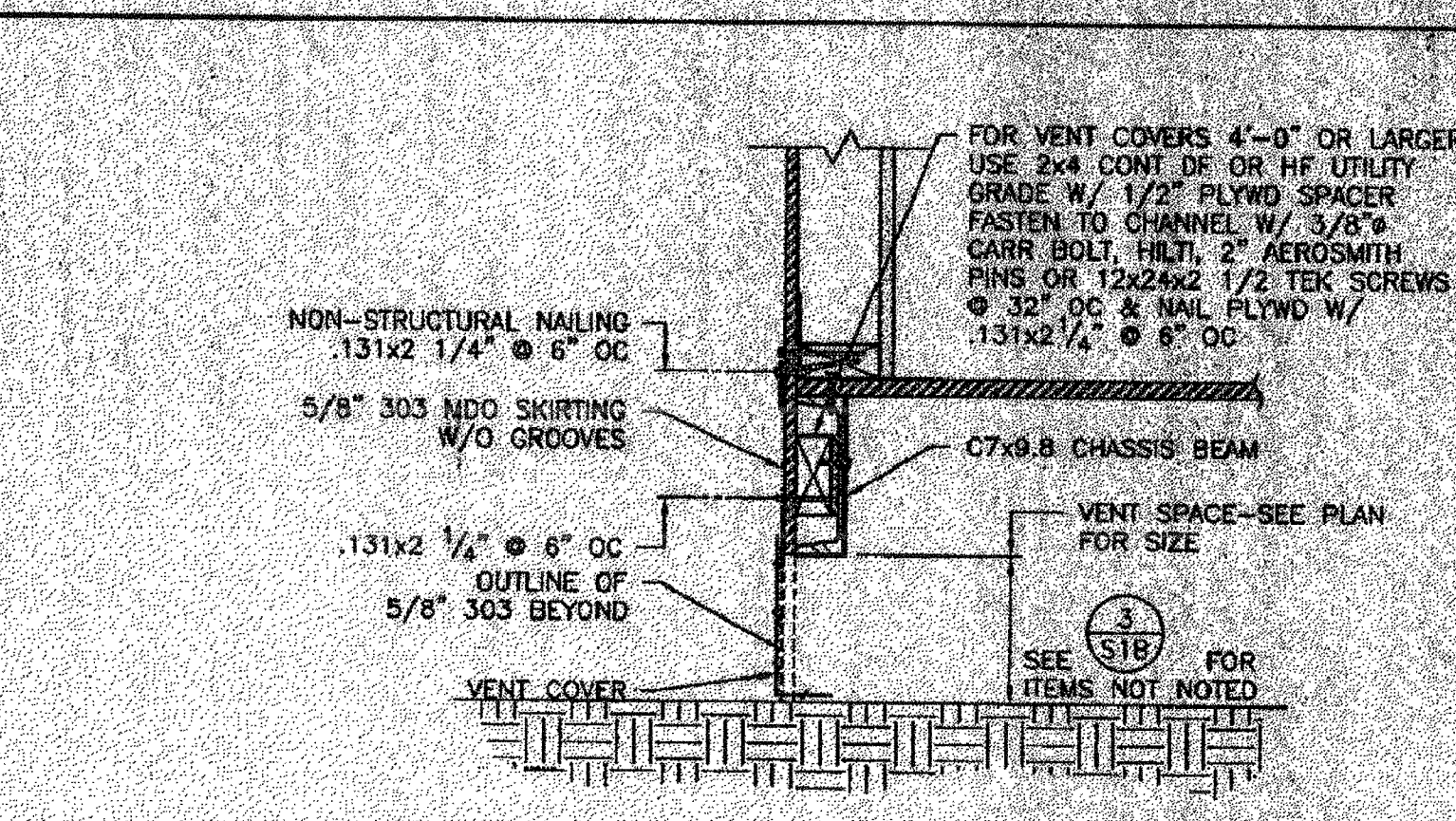
1 1/2" = 1'-0"

OPTIONAL FOR BUILDING PLACES LESS THAN 18" APART



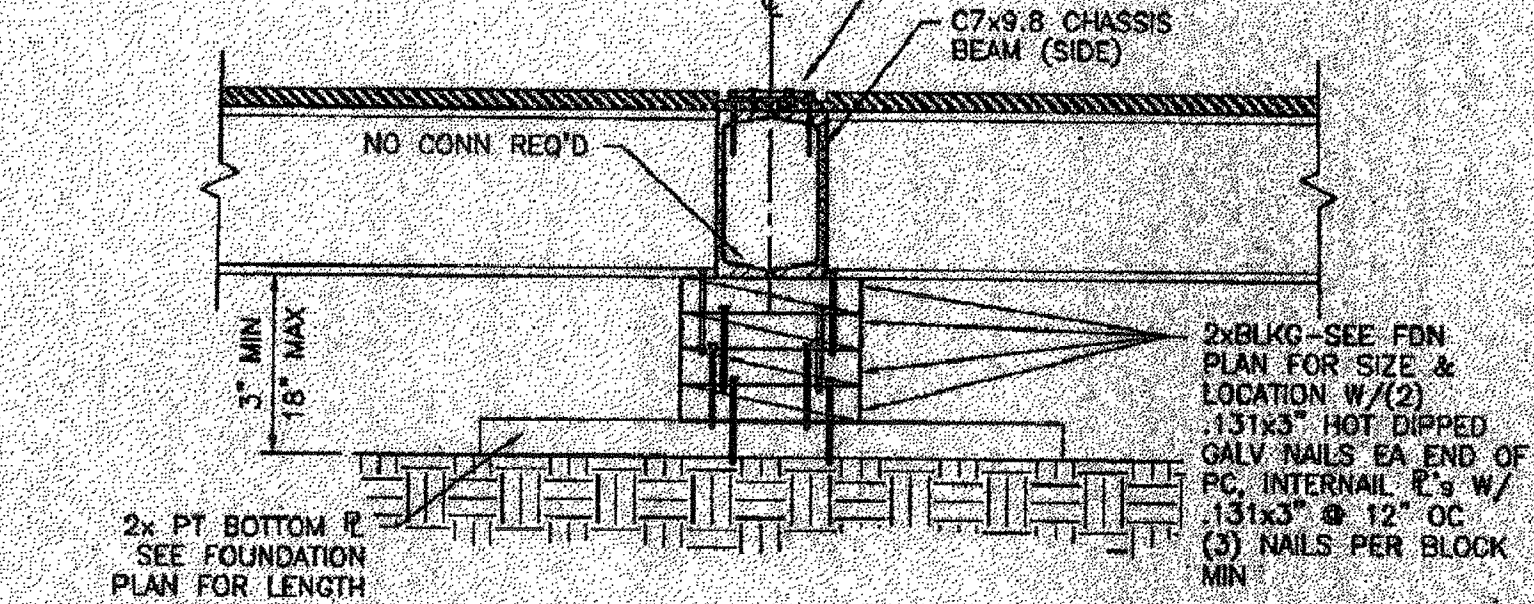
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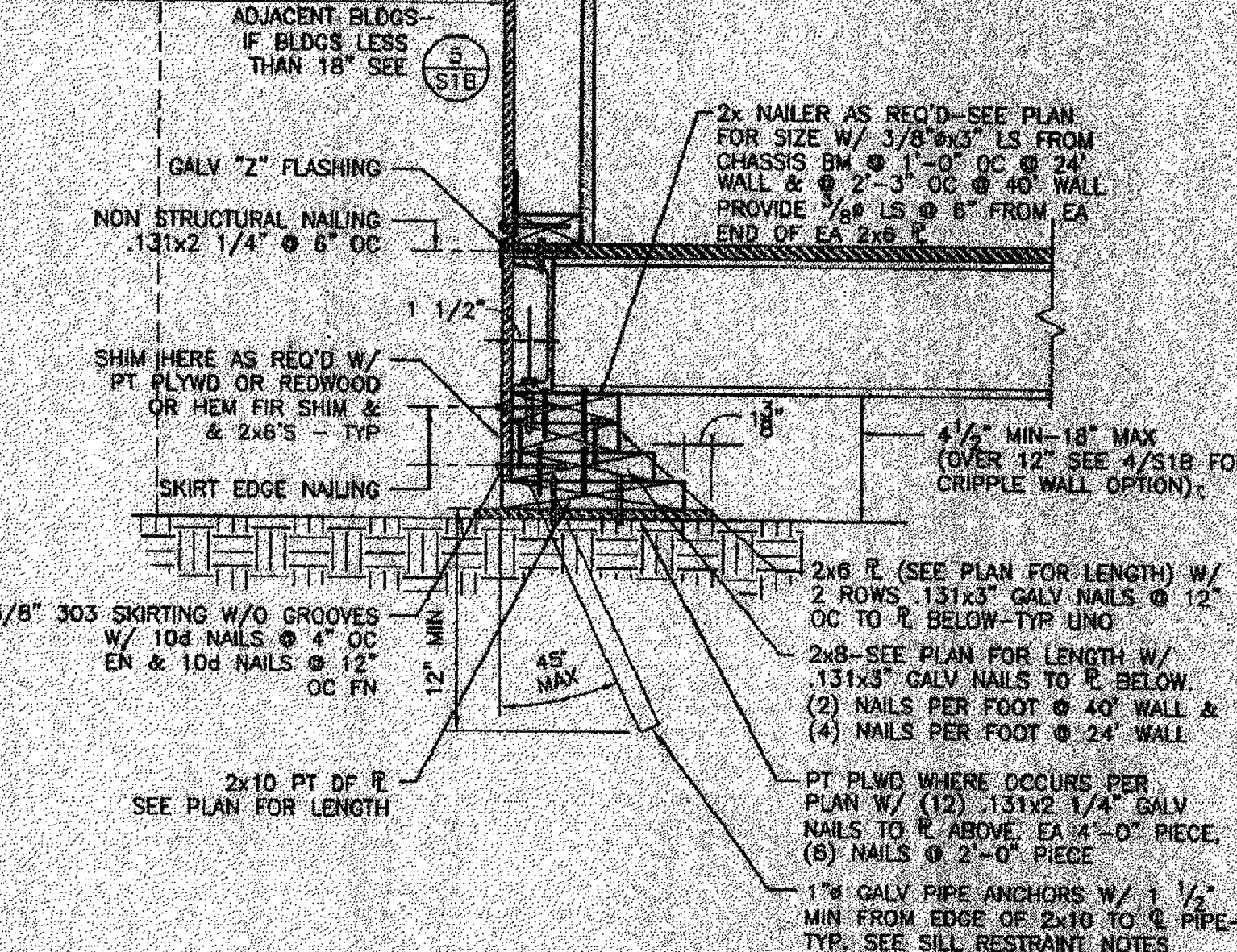
FOUNDATION DETAIL

1 1/2" = 1'-0"



FOUNDATION DETAIL

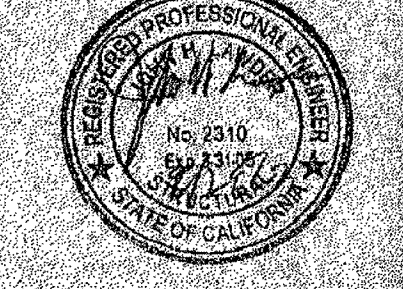
1 1/2" = 1'-0"



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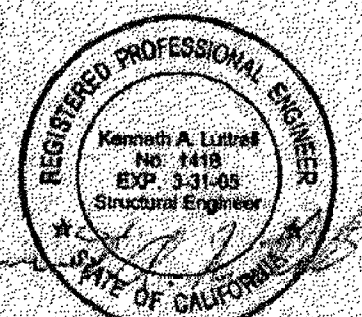
1 1/2" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 105603
DATE 5-26-2003



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATORY SERVICES
APPLICATION NO. 02-105603
DATE 5-26-2003

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RELOCATABLE
CLASSROOM



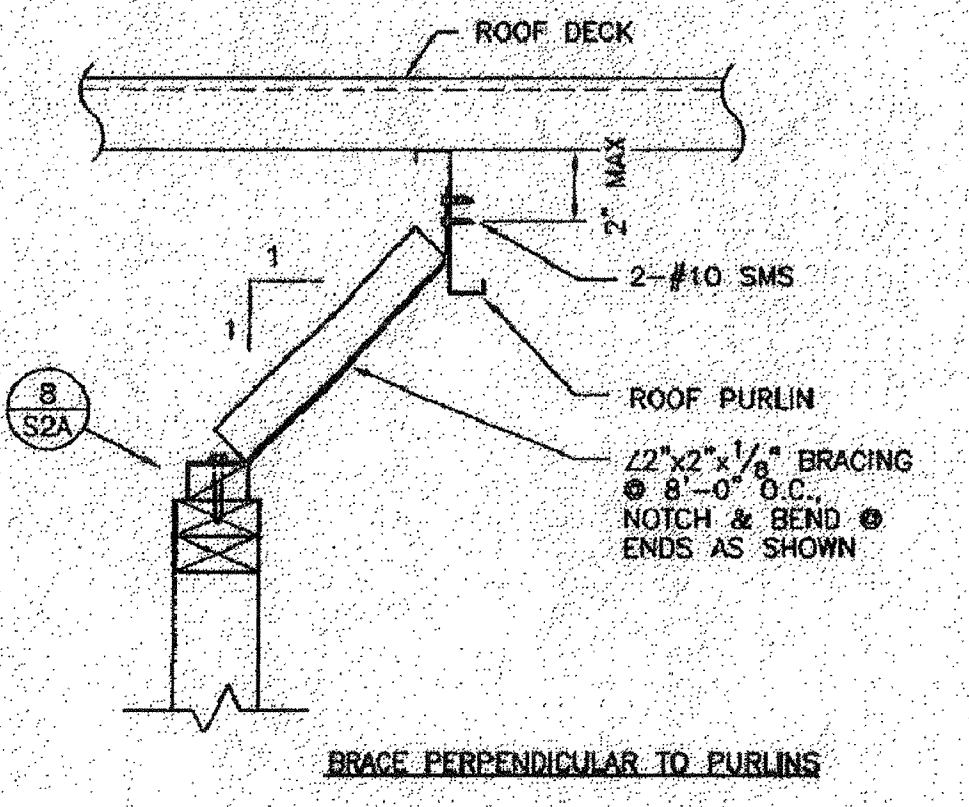
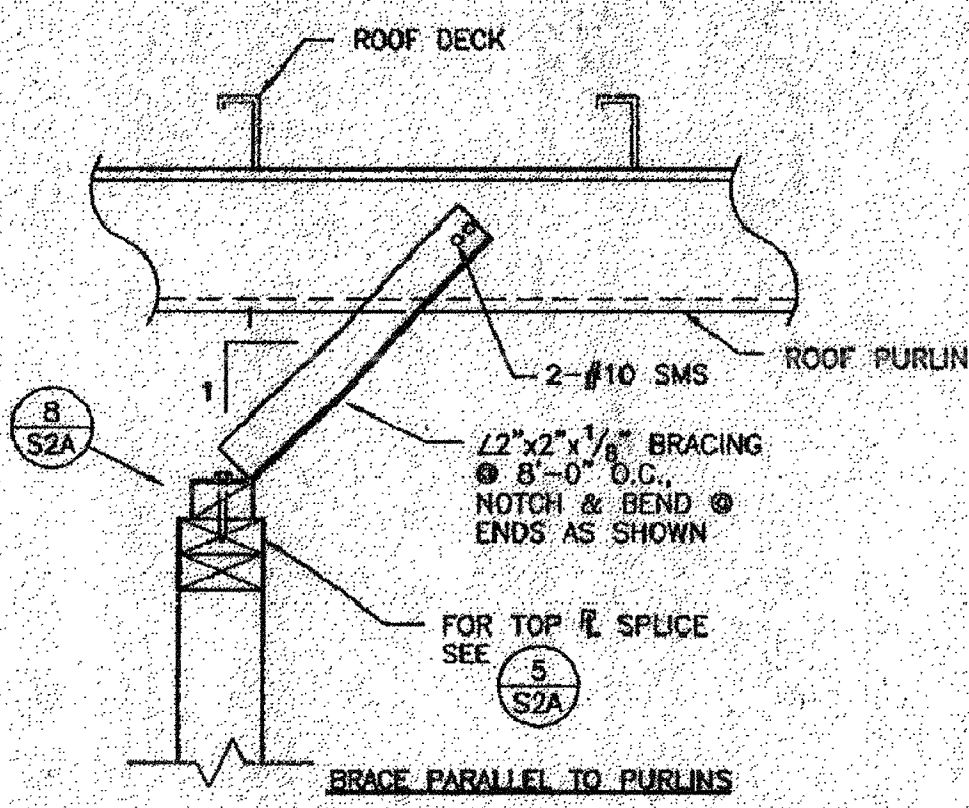
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WOOD FOUNDATION PLAN & DETAILS
125 PSF FLOOR LIVE LOAD

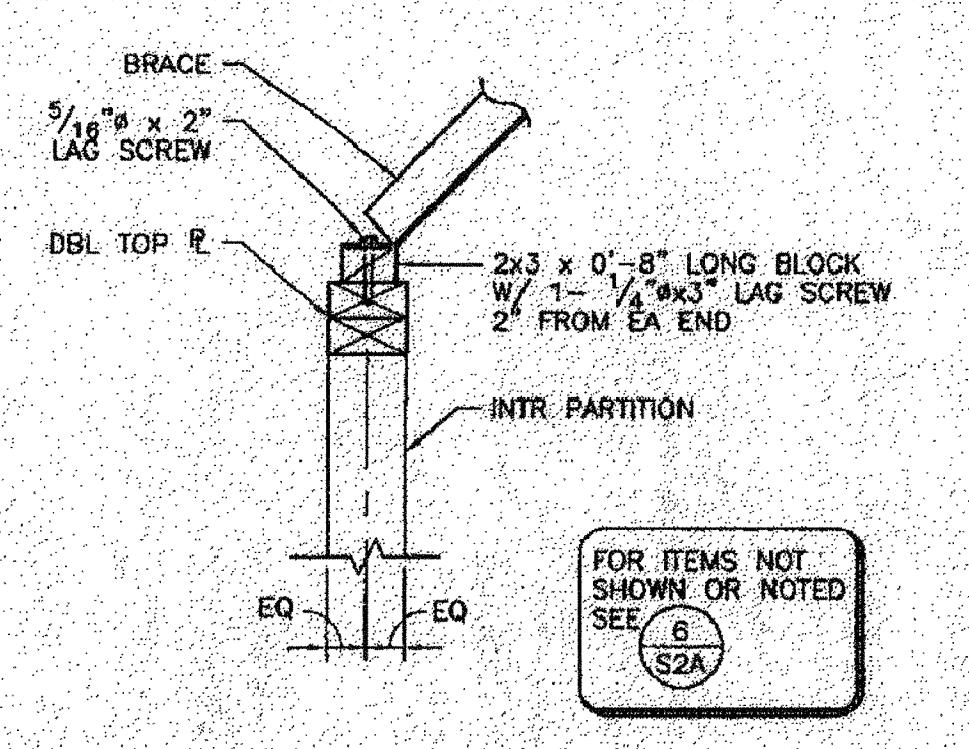
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DESIGNED BY: MOB
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SERIAL NO. _____

REVISIONS					
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

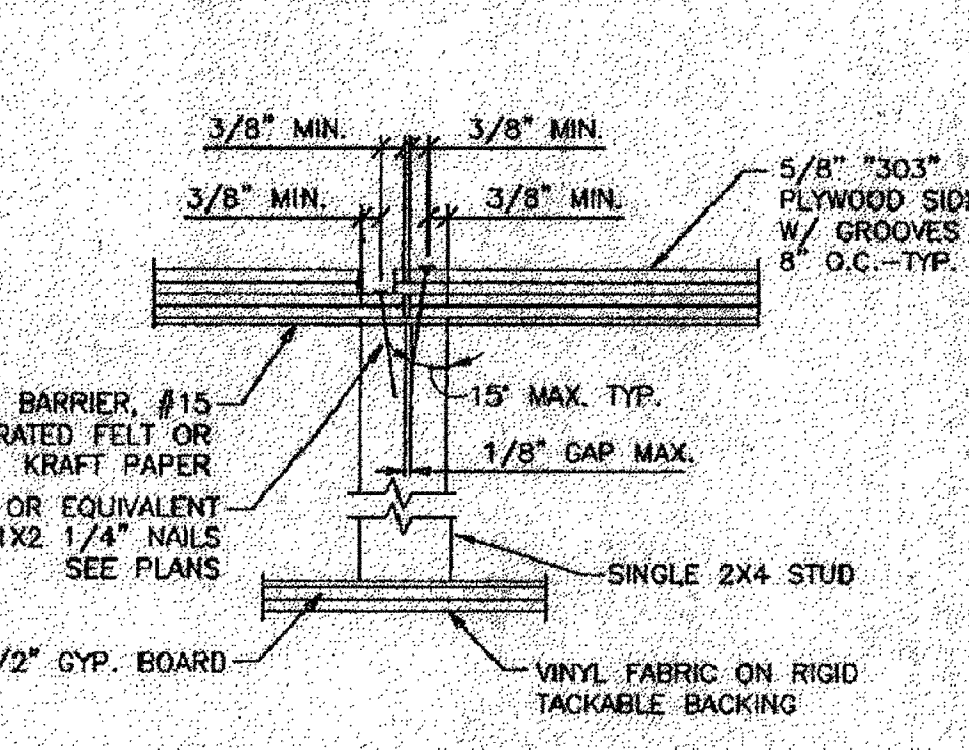
PROJECT No. 02156-01
SHEET No. S1B



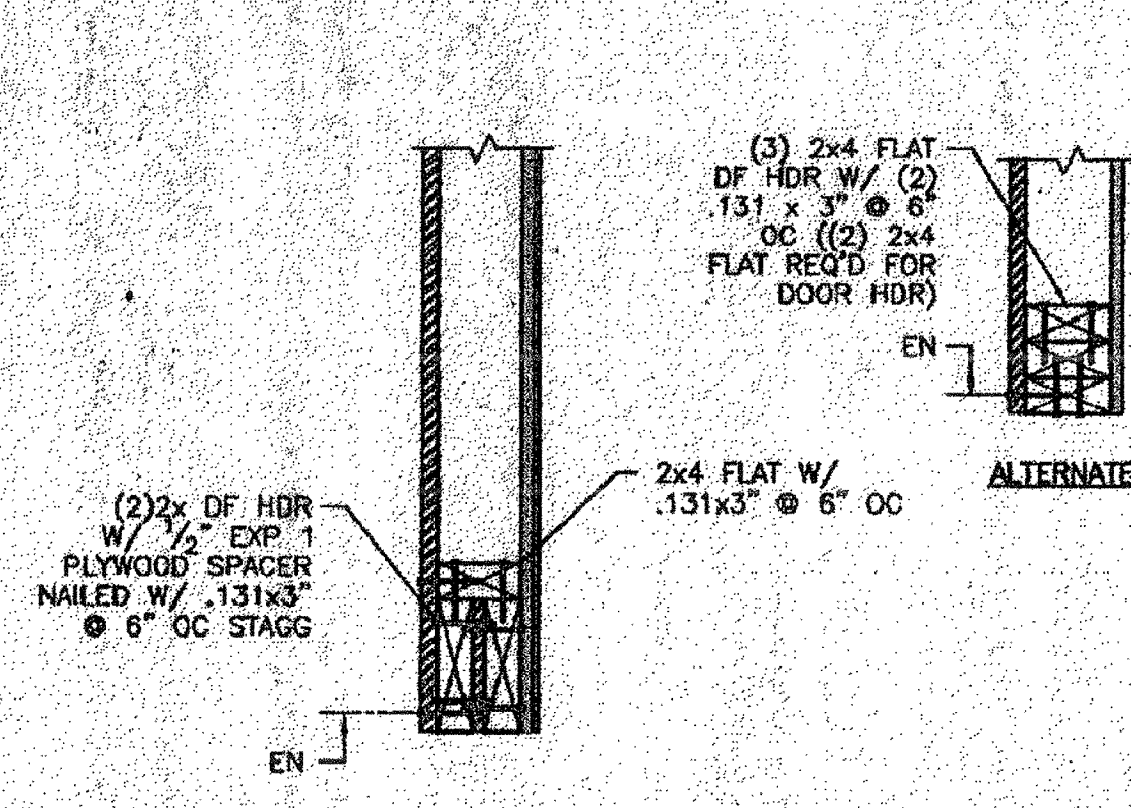
ALT. WALL FRAMING DETAIL
1 1/2" = 1'-0"



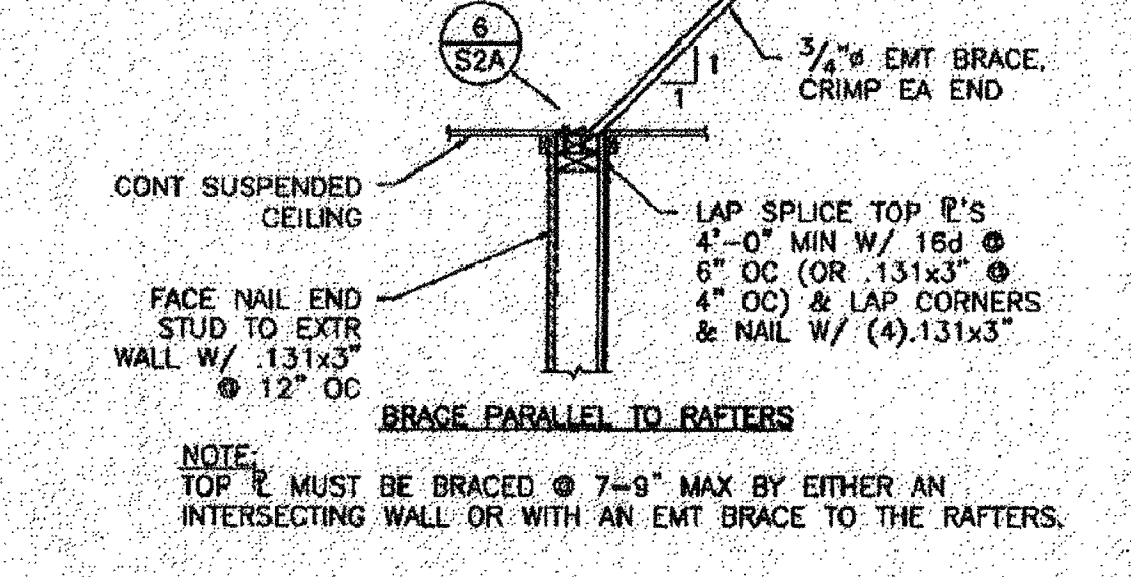
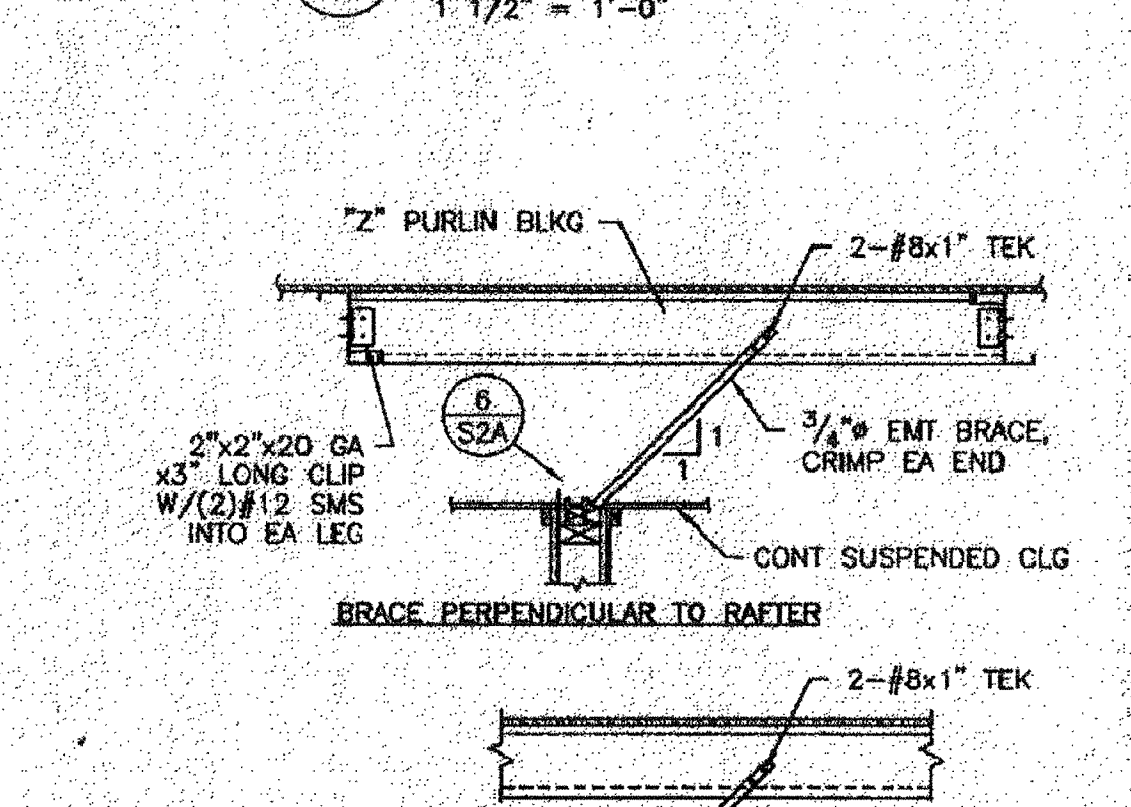
WALL FRAMING DETAIL
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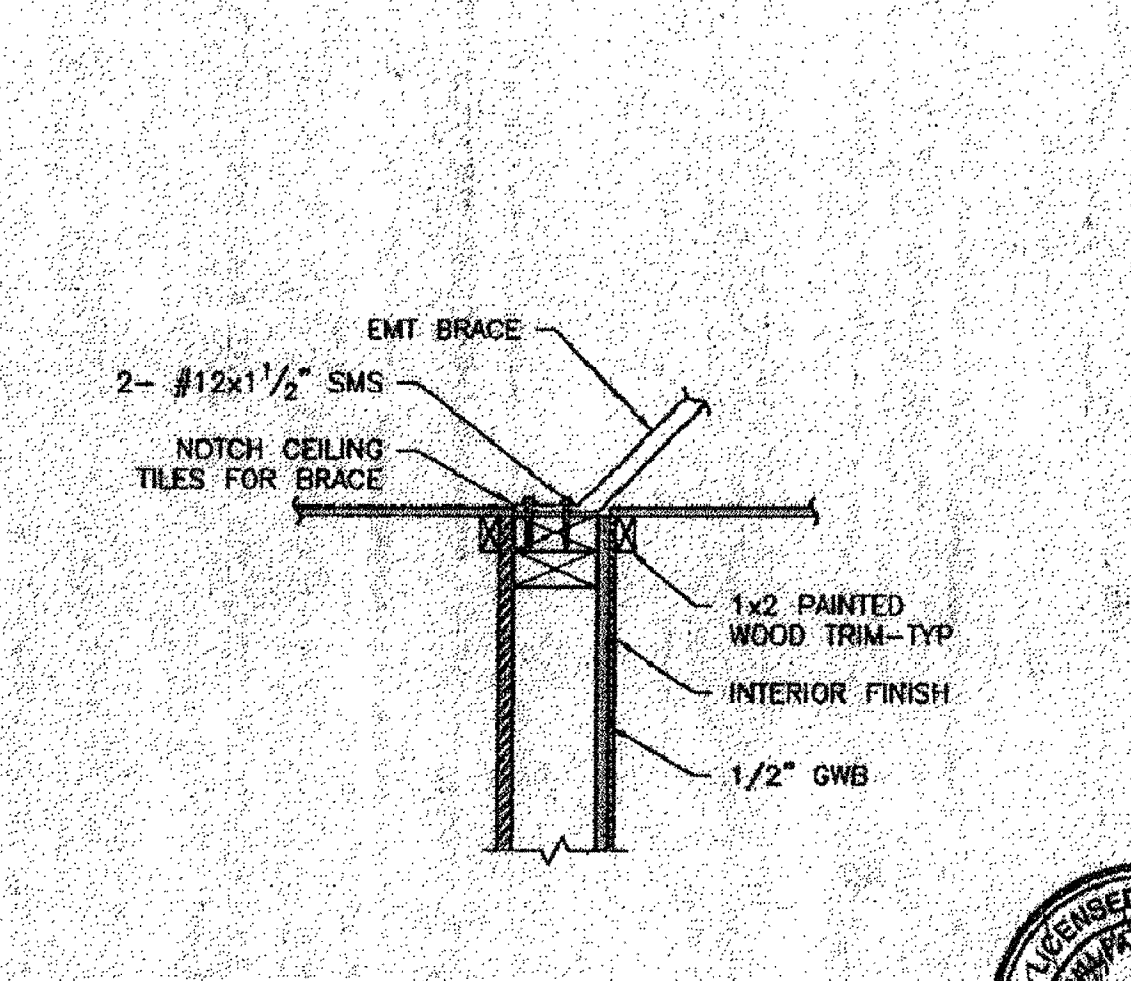
TYPICAL SIDING JOINT DETAIL
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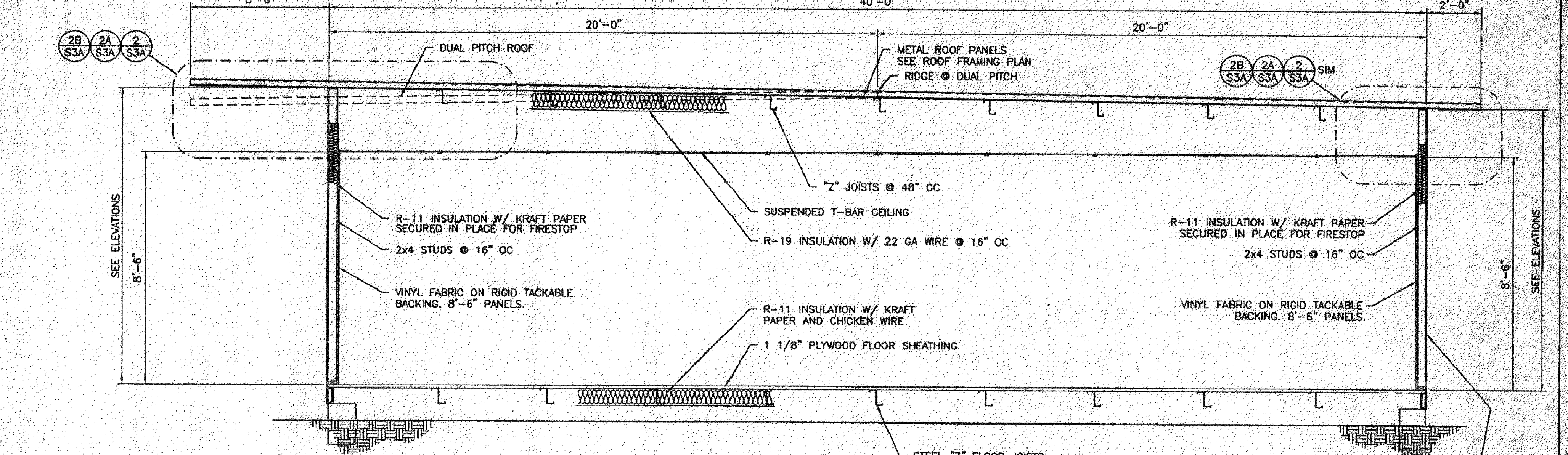
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1 1/2" = 1'-0"



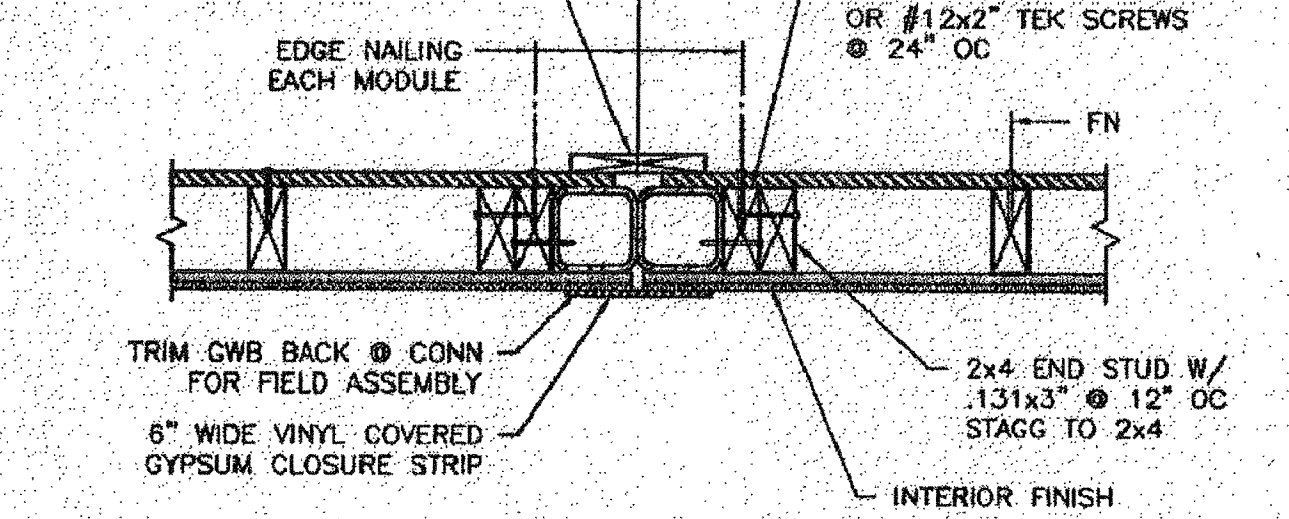
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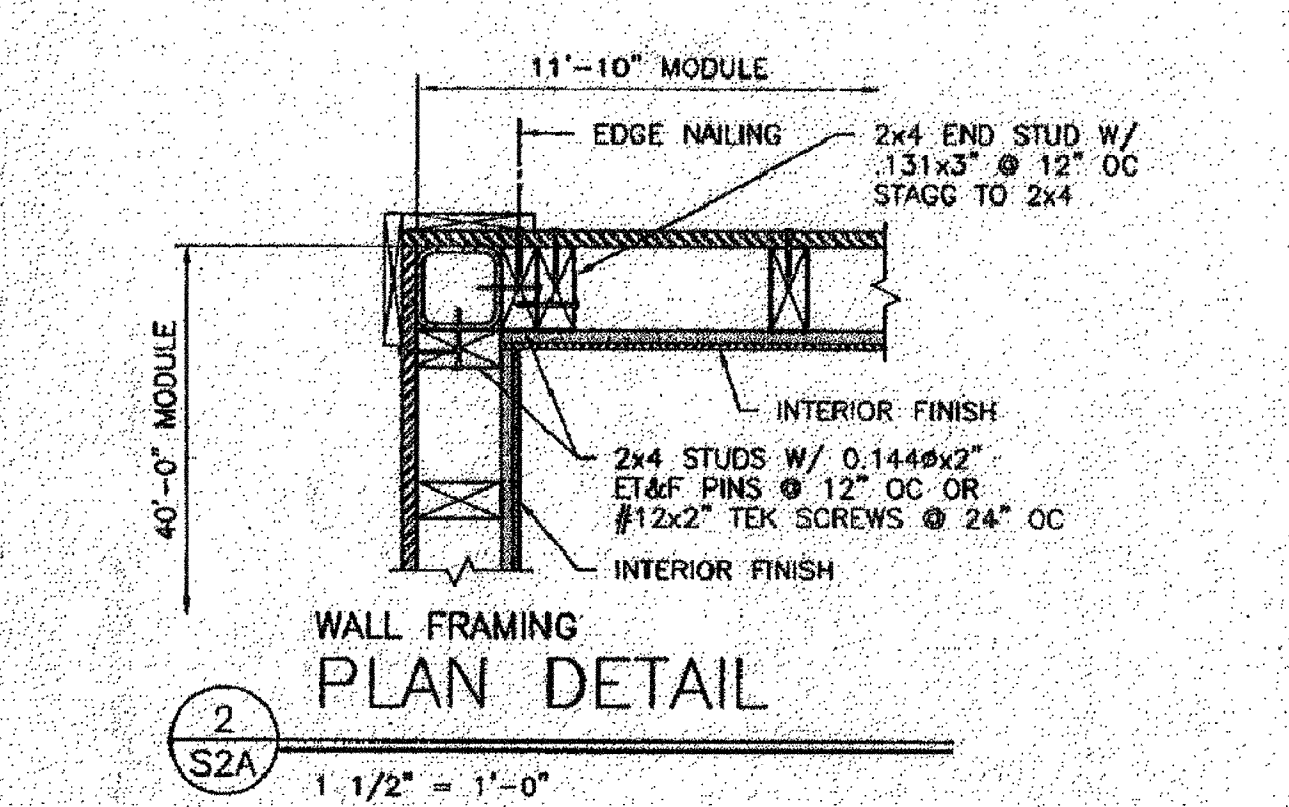
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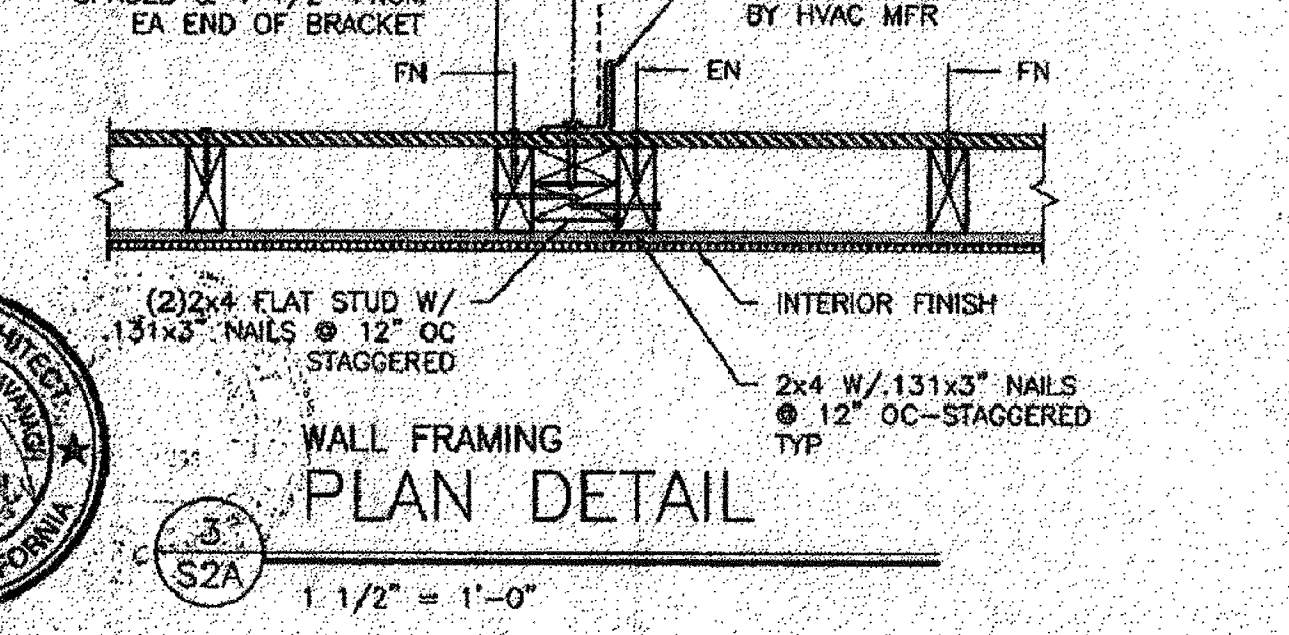
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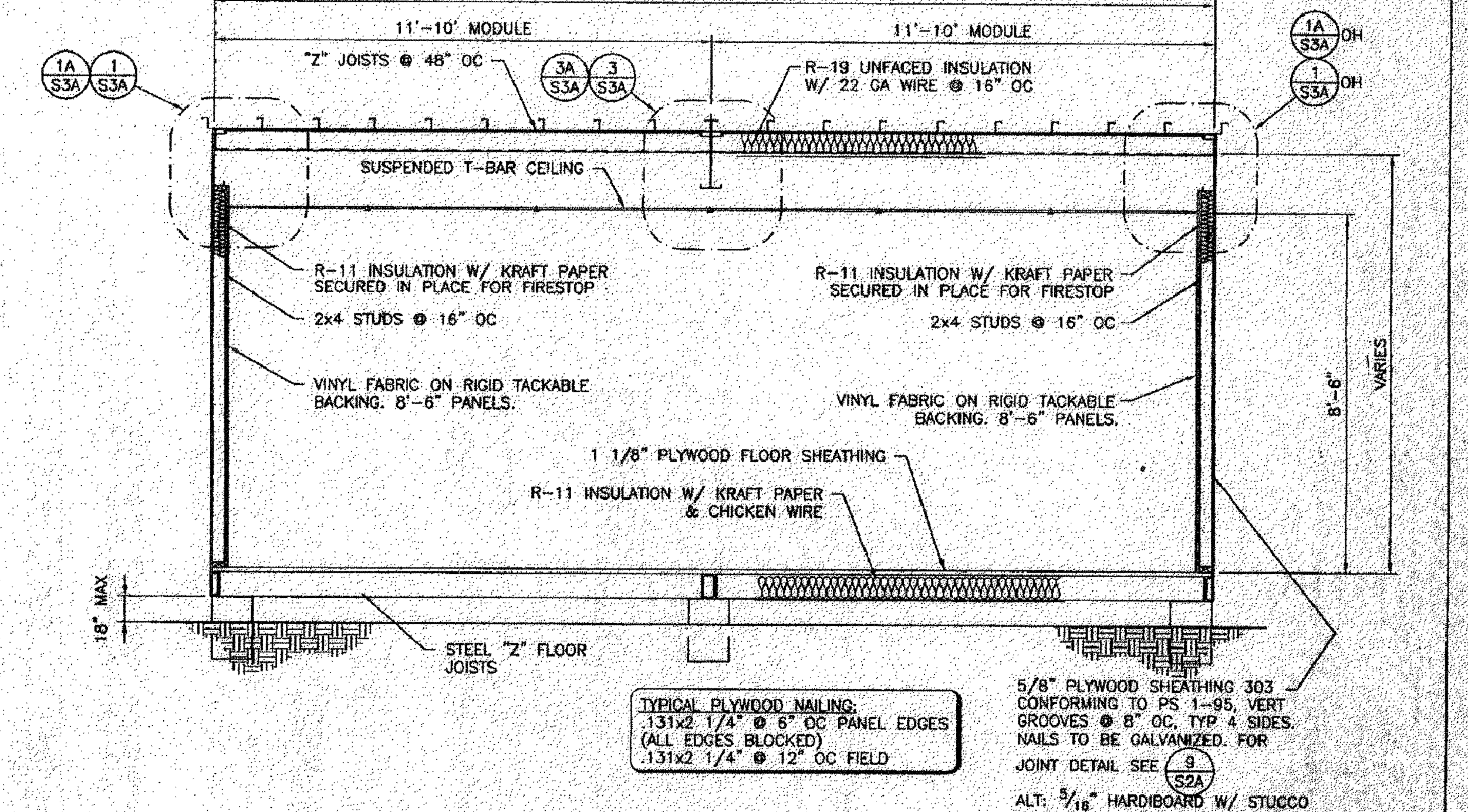
WALL FRAMING PLAN DETAIL
1 1/2" = 1'-0"



WALL FRAMING PLAN DETAIL
1 1/2" = 1'-0"



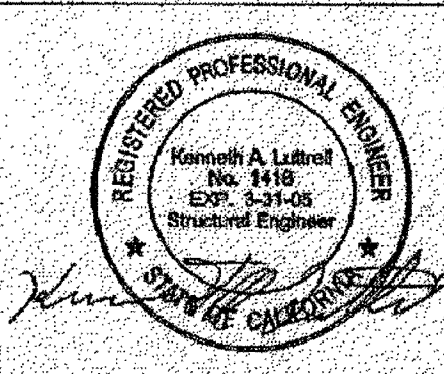
WALL FRAMING PLAN DETAIL
1 1/2" = 1'-0"



TYPICAL TRANSVERSE SECTION
3/8" = 1'-0"

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IDENTIFICATION STAMP
APPL 01-117316
ACS FLS S2A D.M.
DATE 10/18



CUSTOMER: _____
BUILDING SECTIONS AND WALL DETAILS

DATE: 5/30/03
SCALE: AS NOTED
DRAWN BY: REM
DESIGNED BY: MDB
CHECKED BY: KAL
SERIAL NO. _____

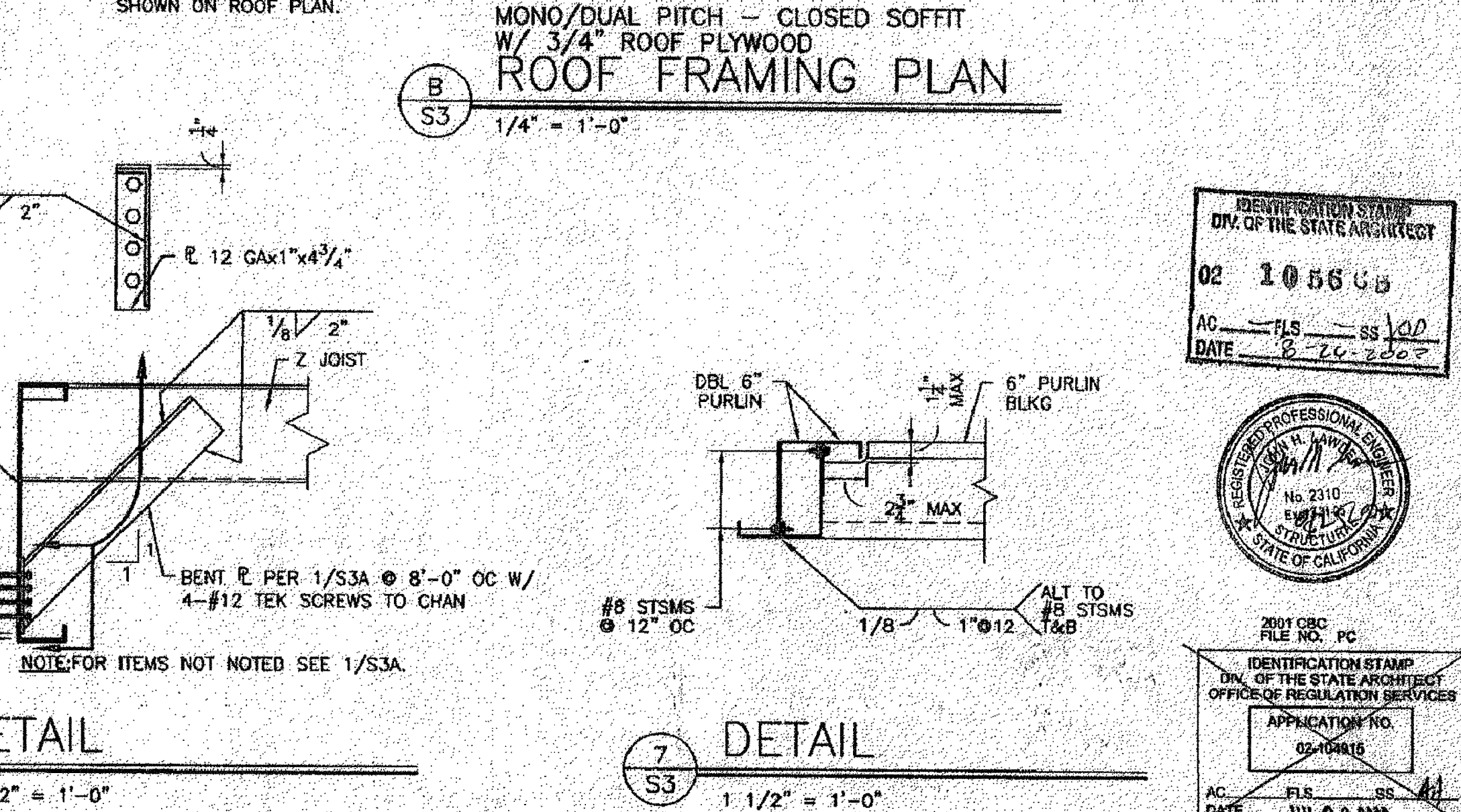
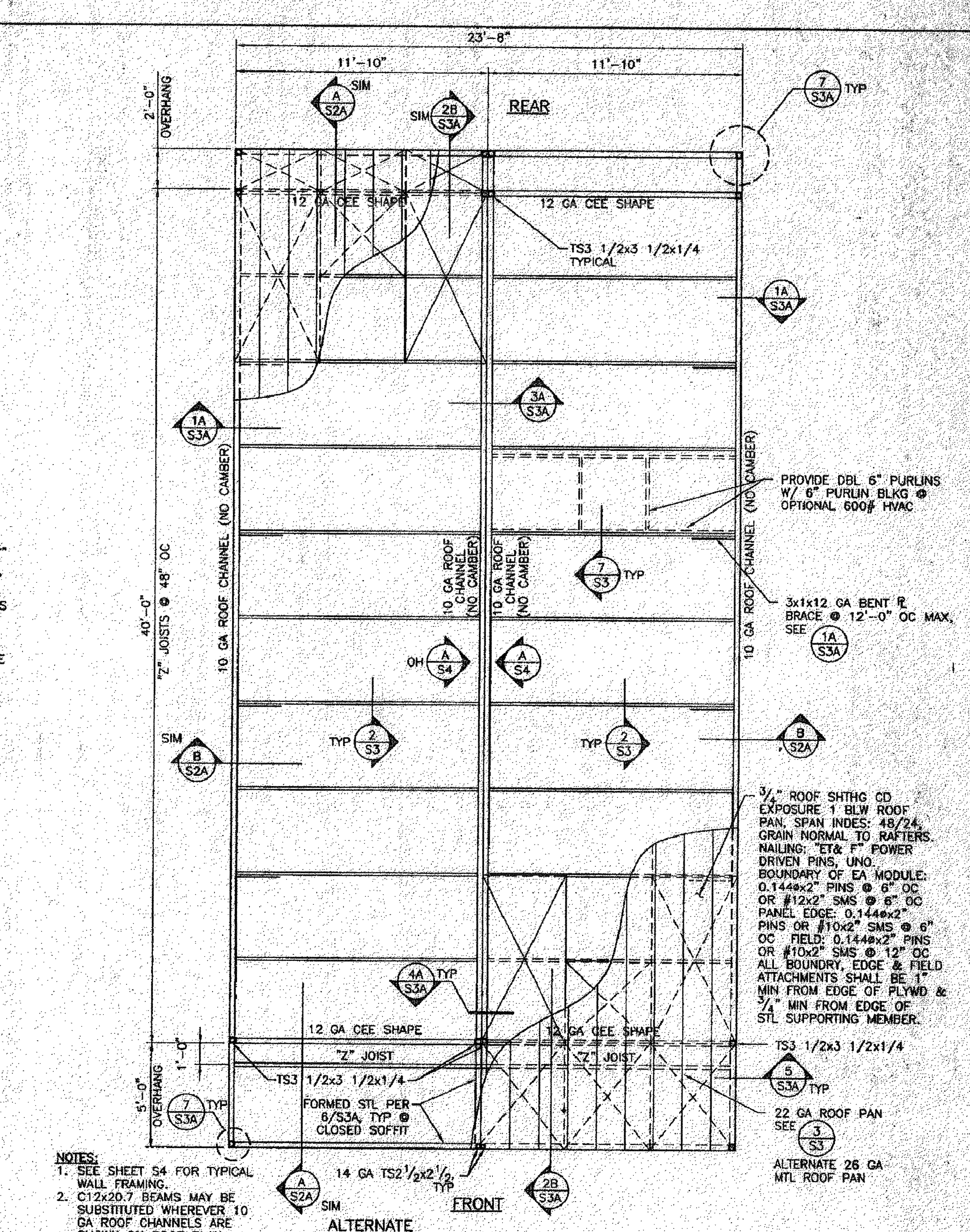
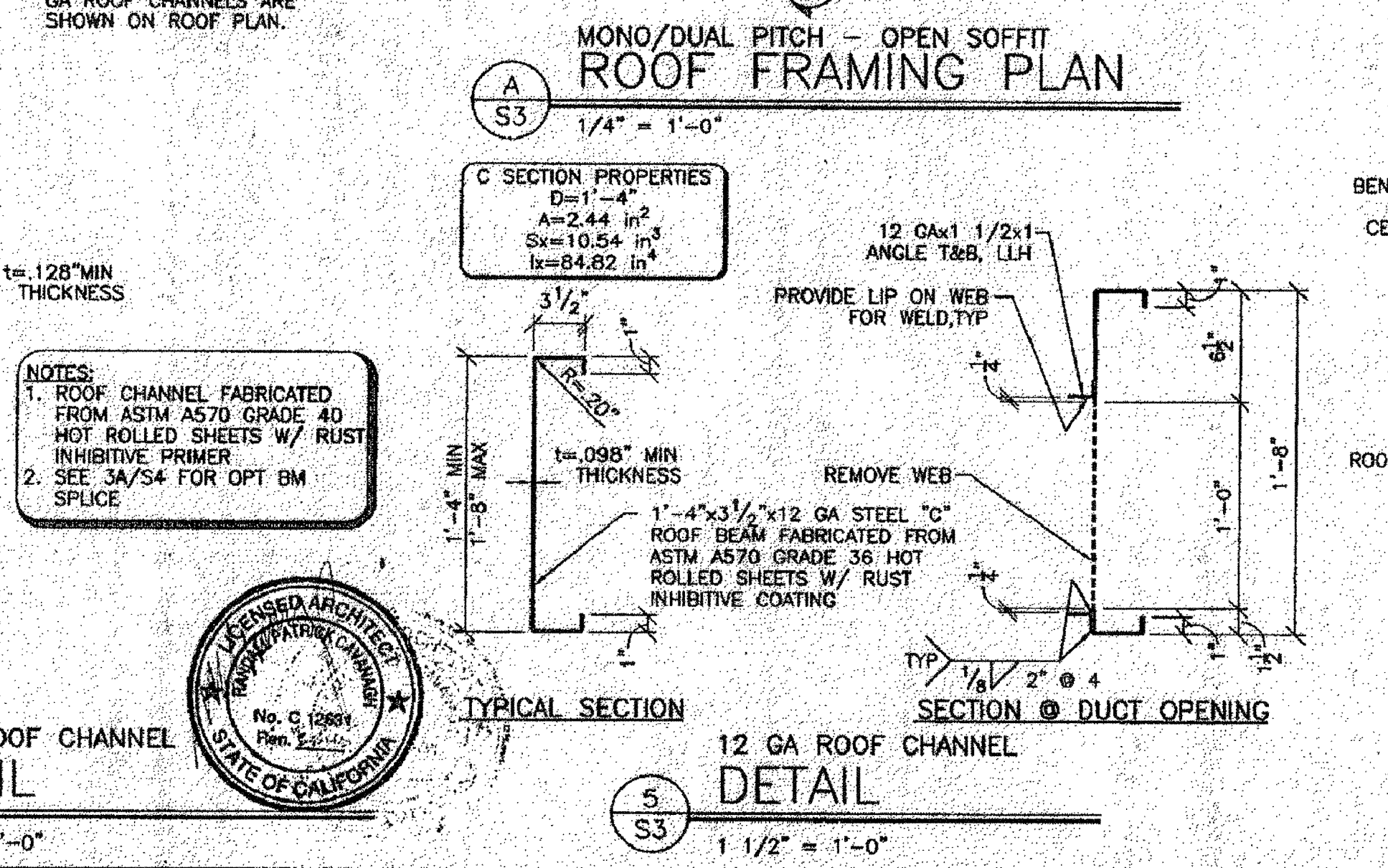
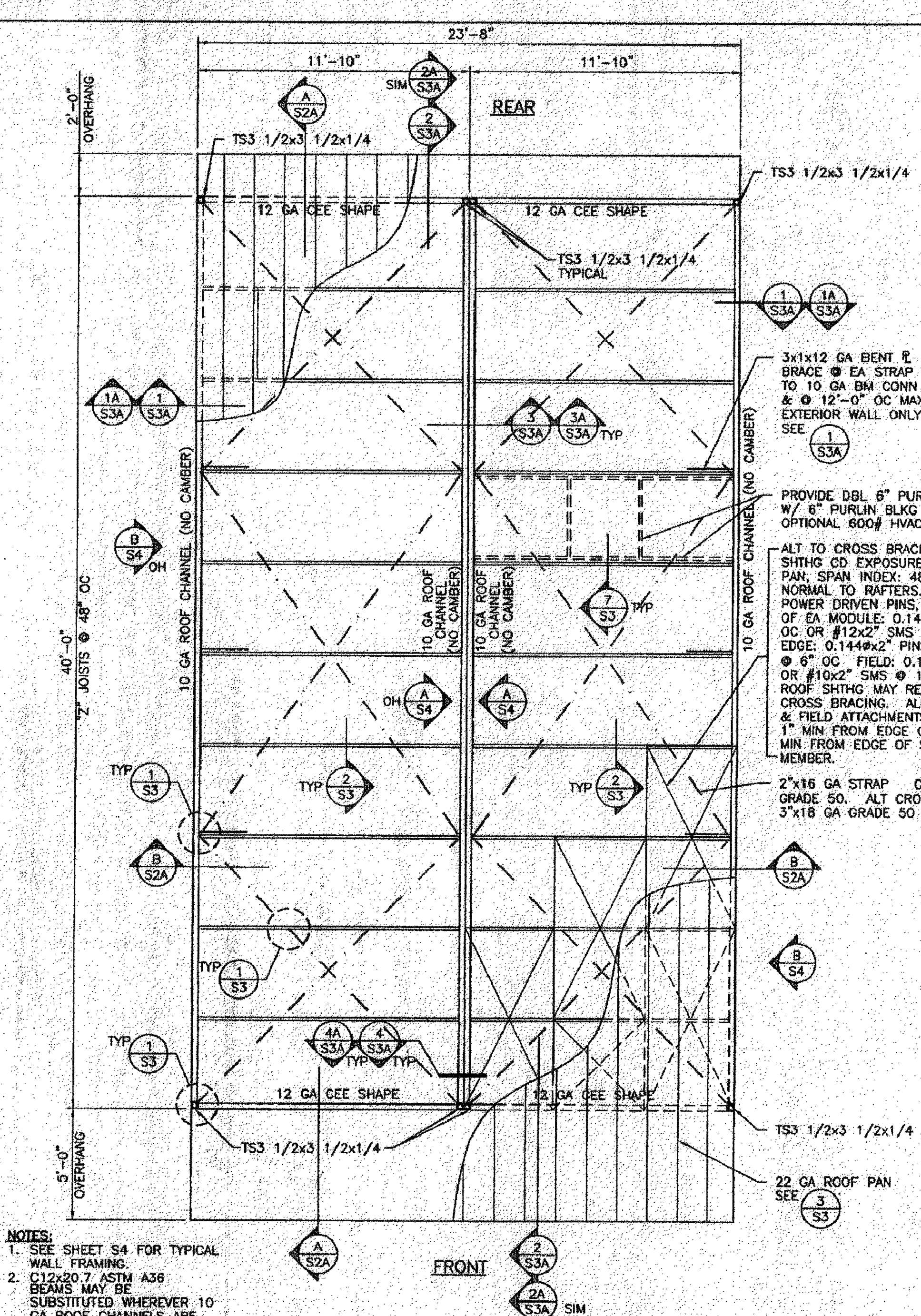
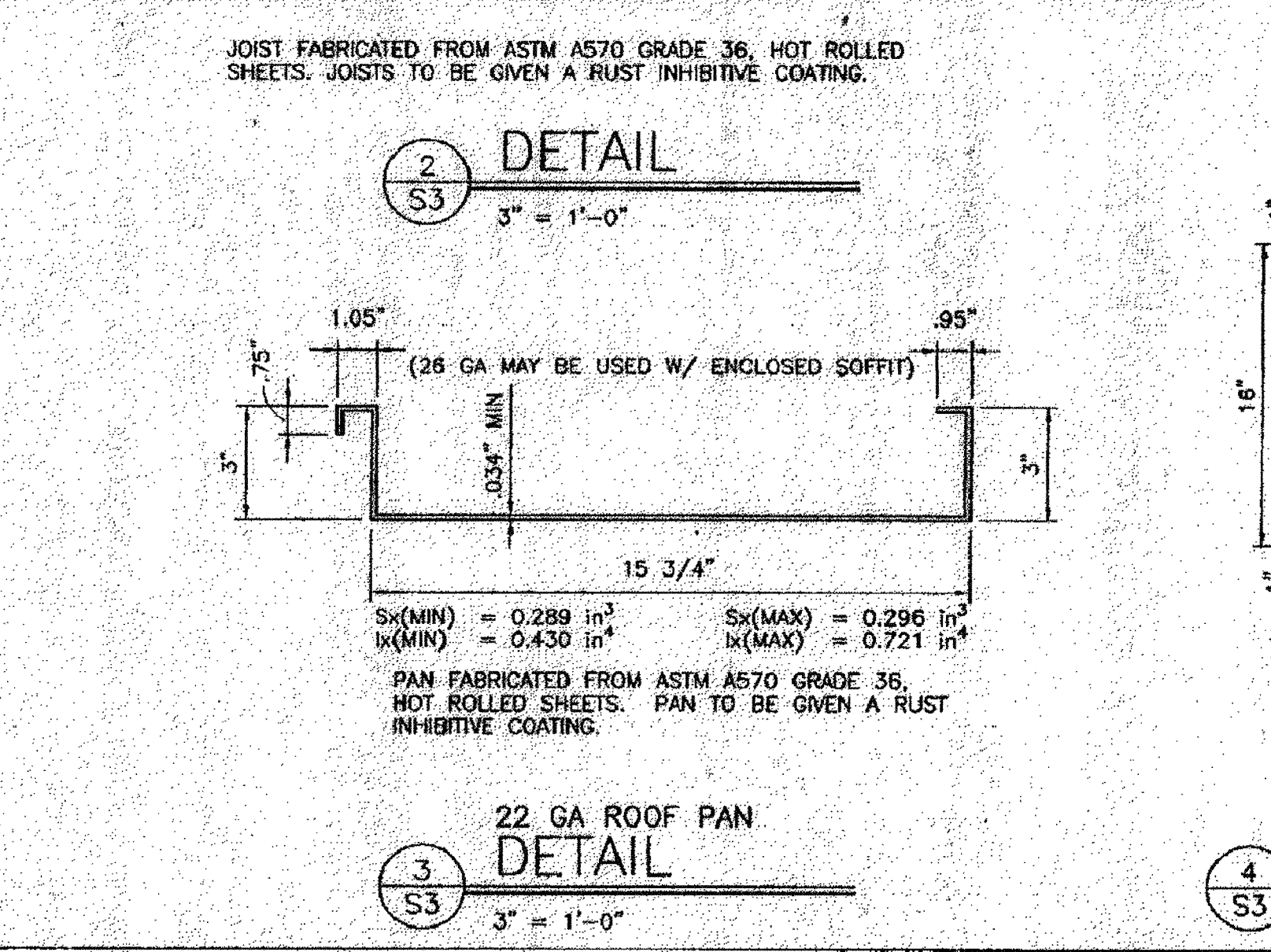
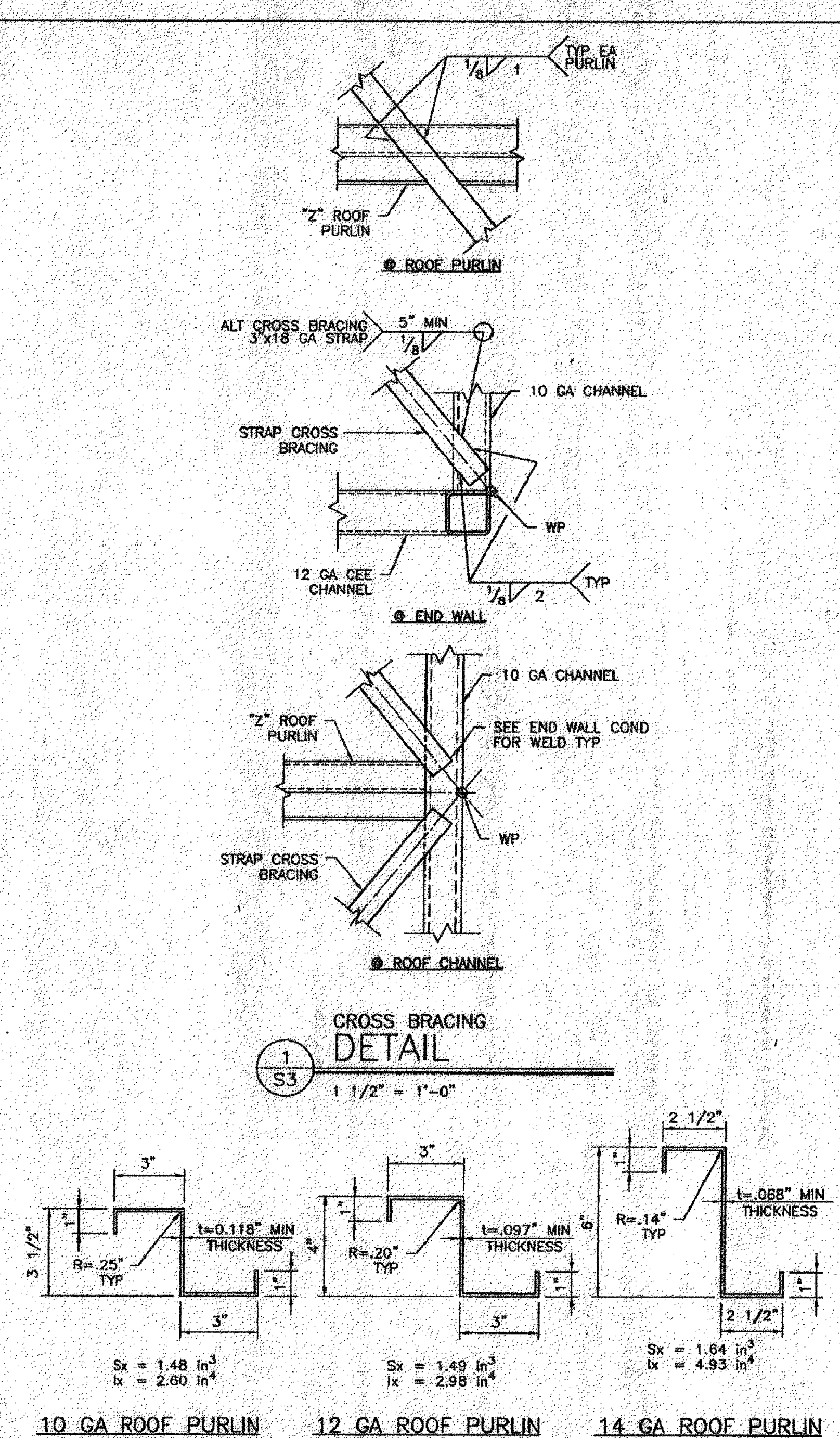
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NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No. 02156-01
SHEET No. S2A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 105603
AC FLS S2A
DATE 5-26-2003

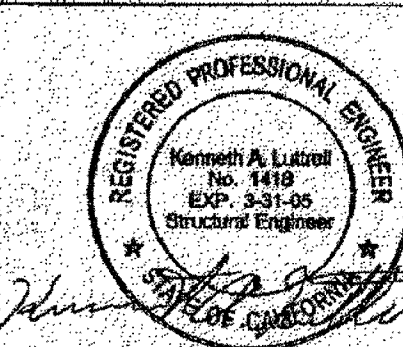


IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPLICATION NO. 0210816
AC FLS S2A
DATE JUL 22 2003



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CLASSROOM



CUSTOMER: _____

ROOF FRAMING PLAN AND DETAILS

DATE: 5/30/03
SCALE: AS NOTED
DRAWN BY: REM
DESIGNED BY: MOB
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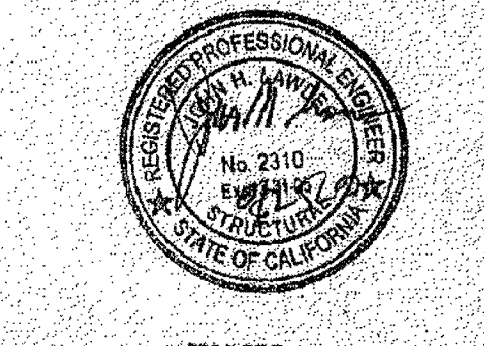
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PROJECT No.
02156-01

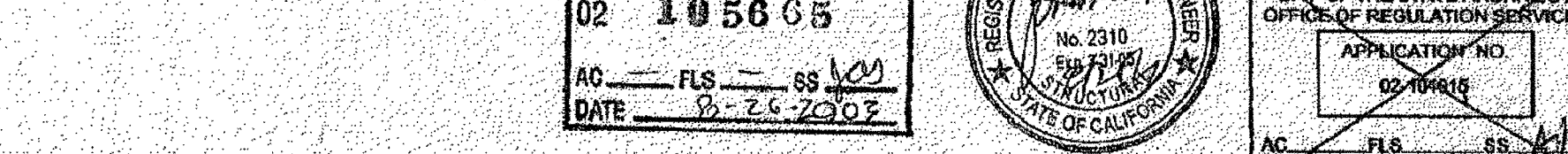
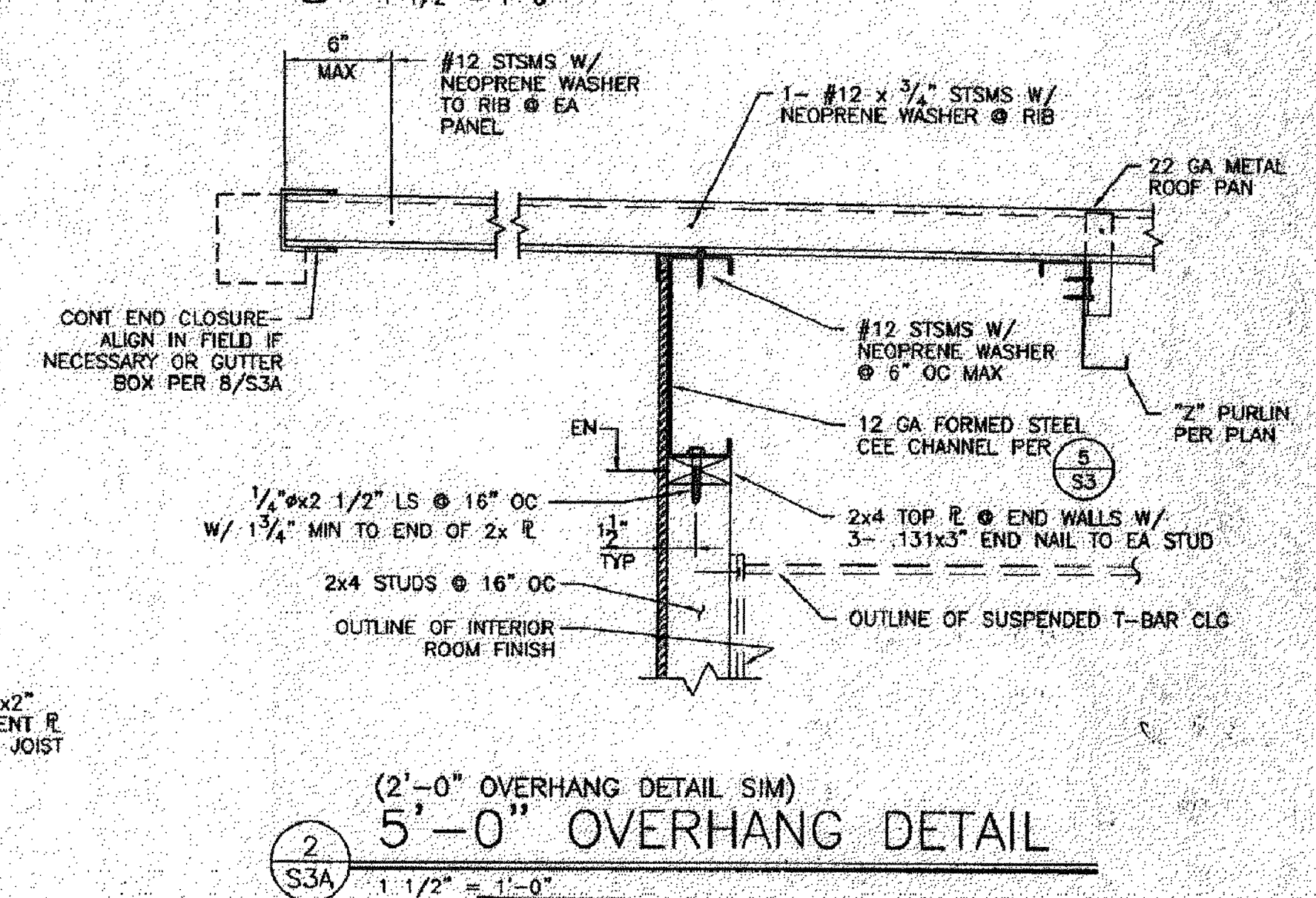
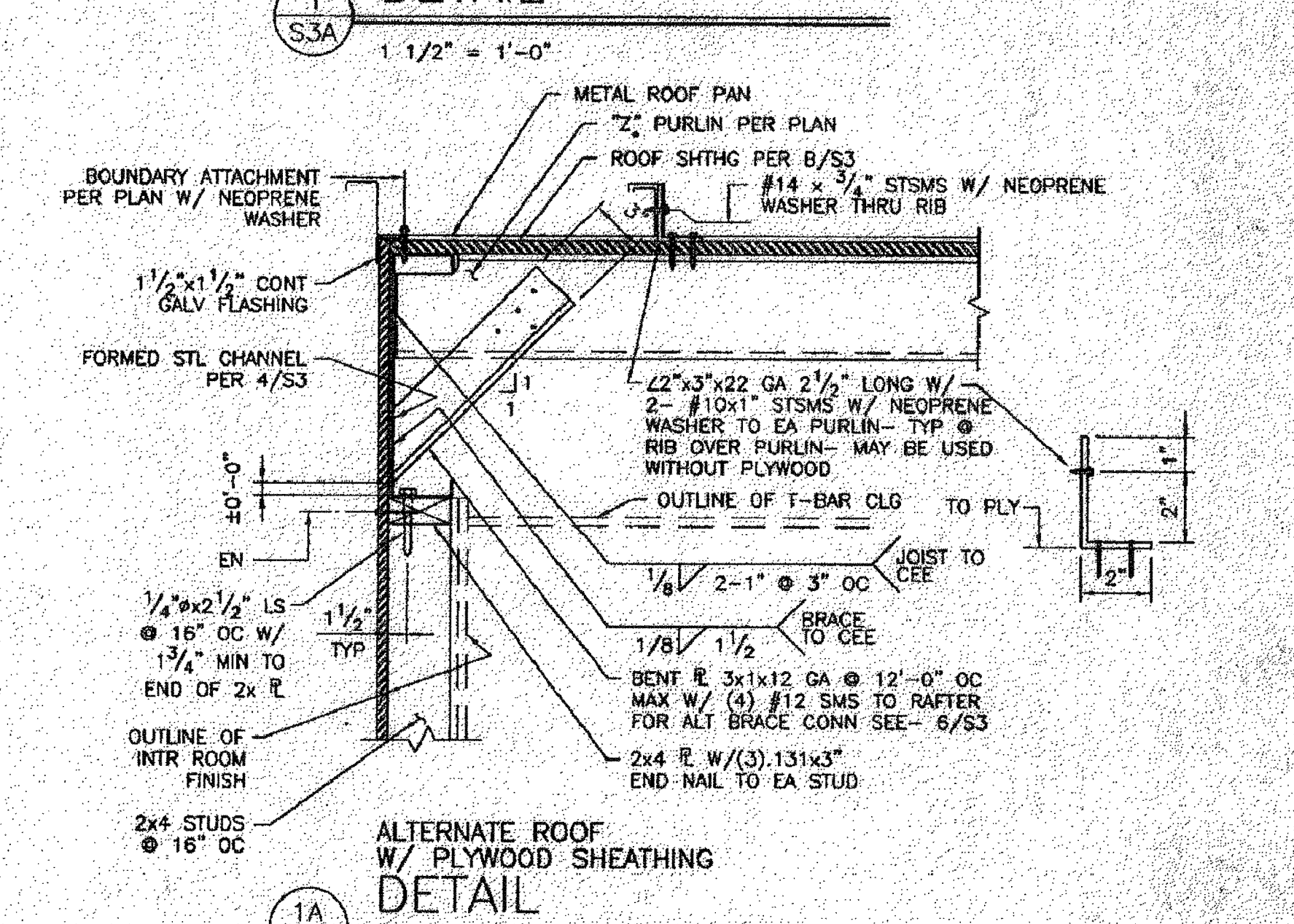
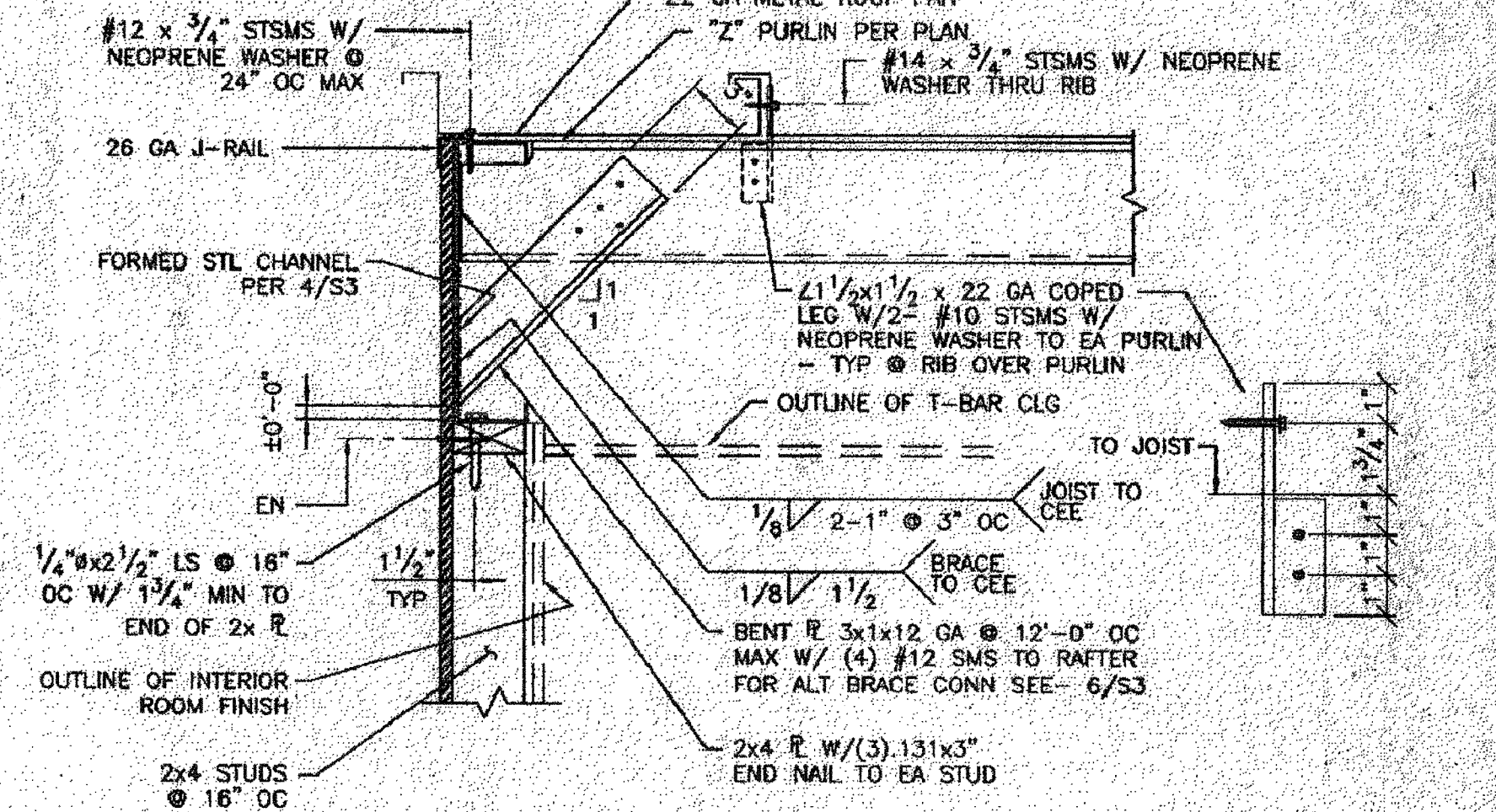
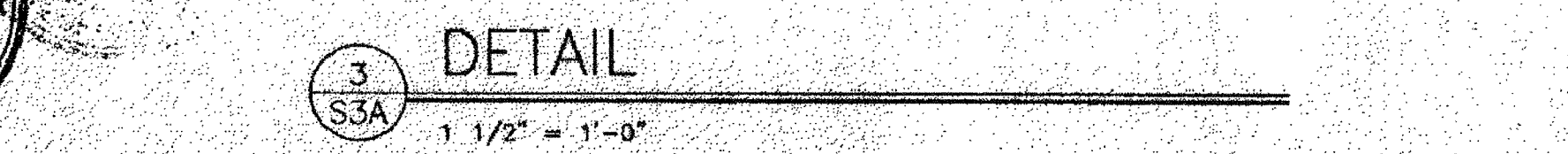
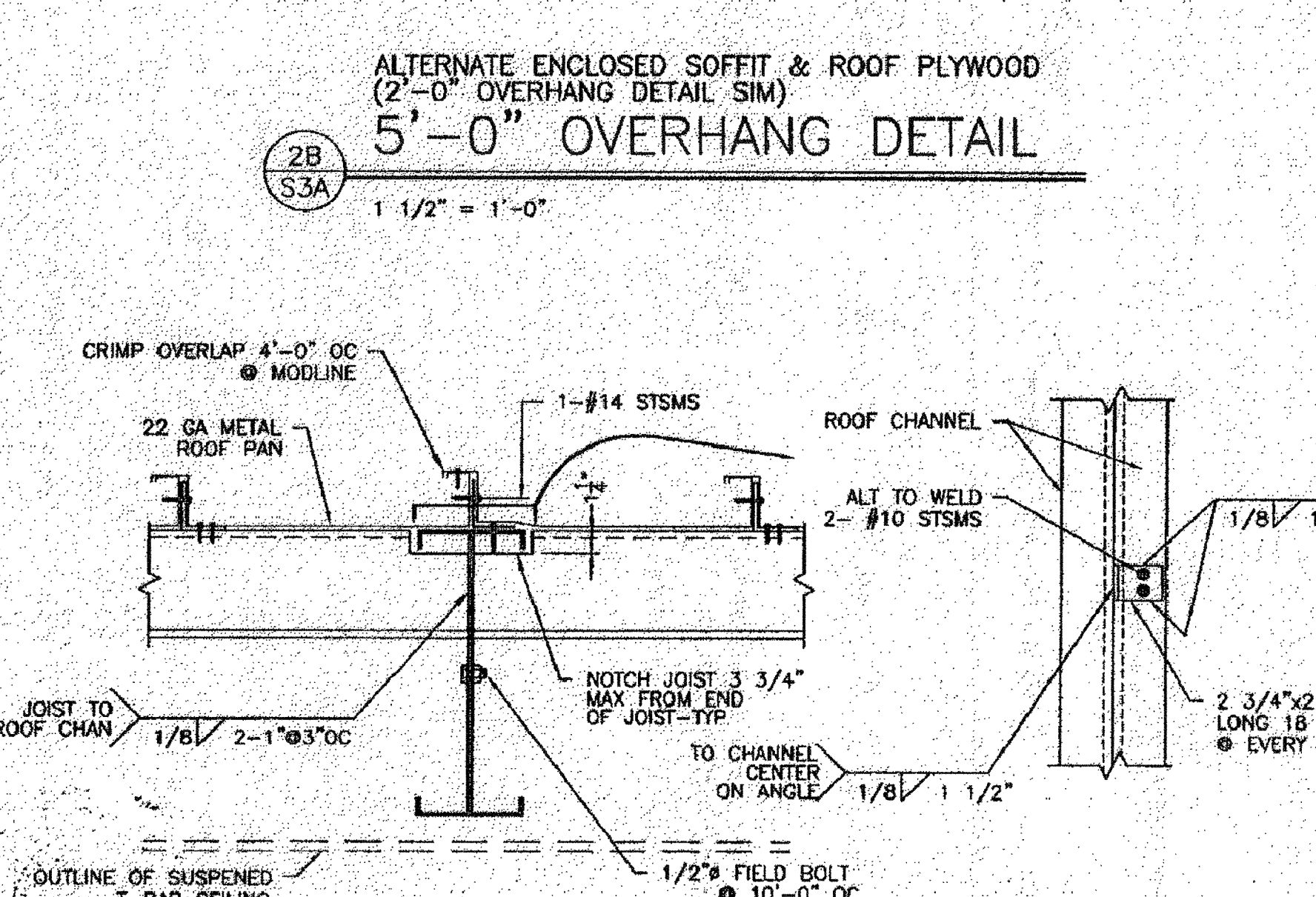
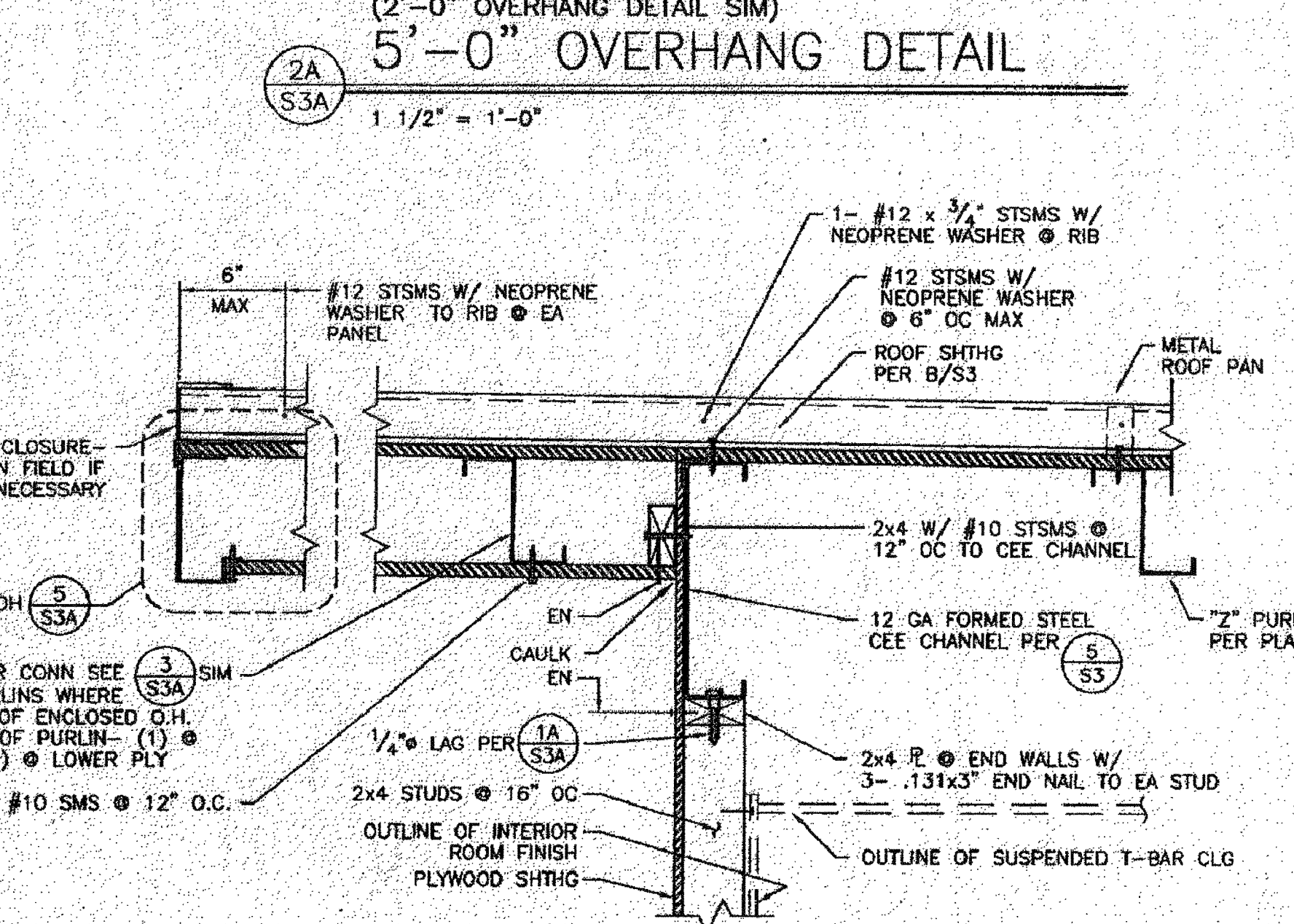
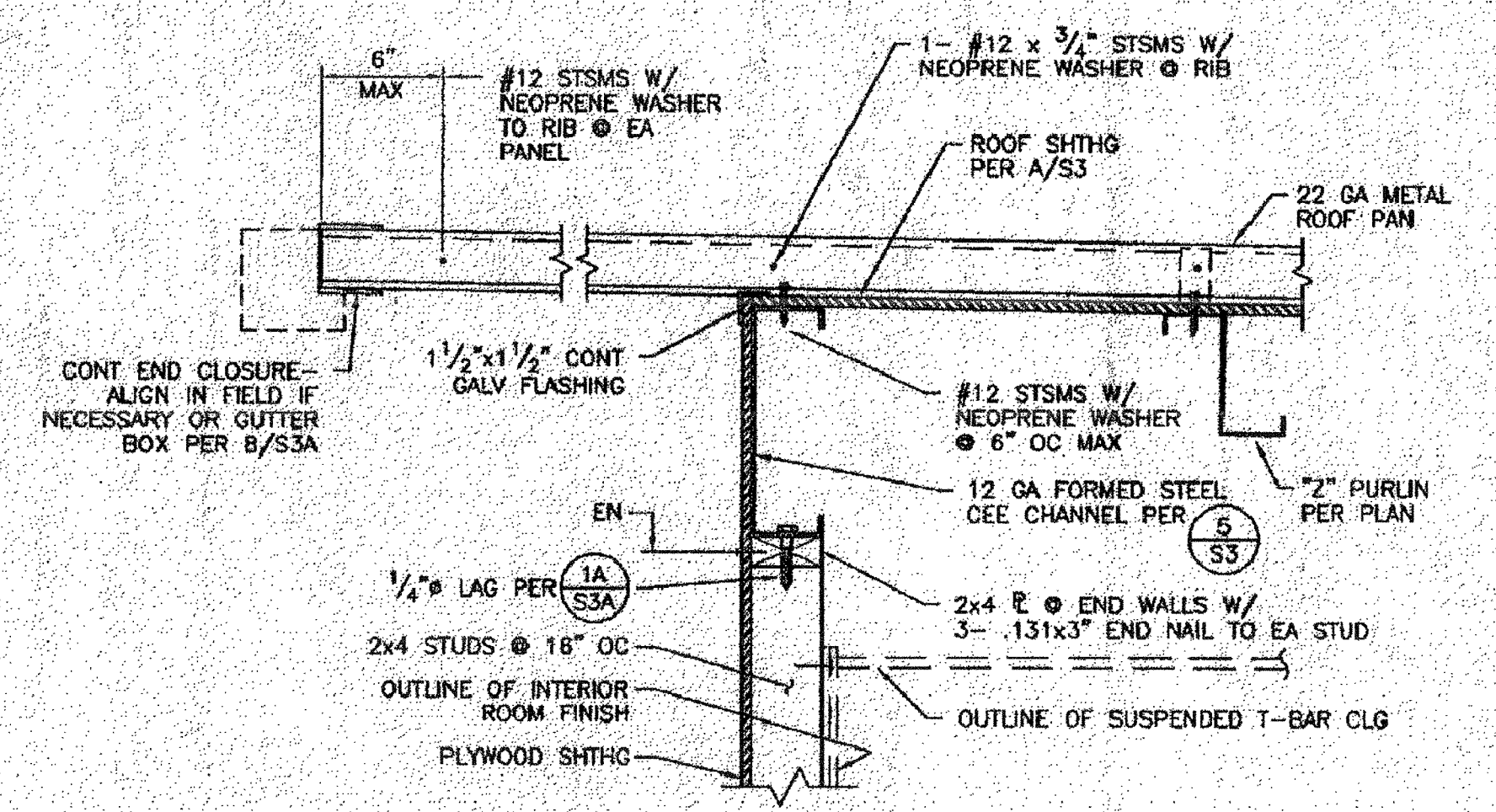
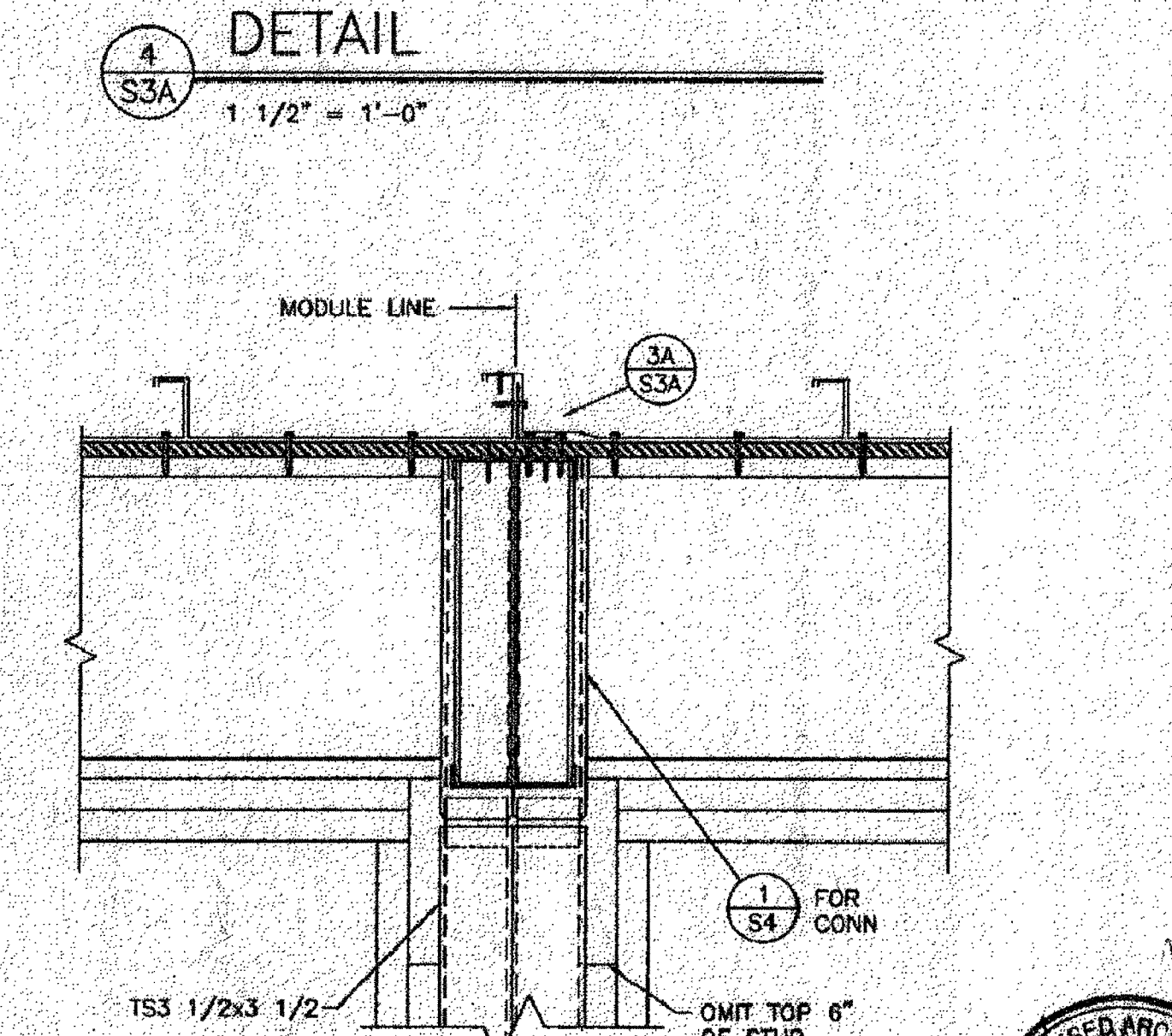
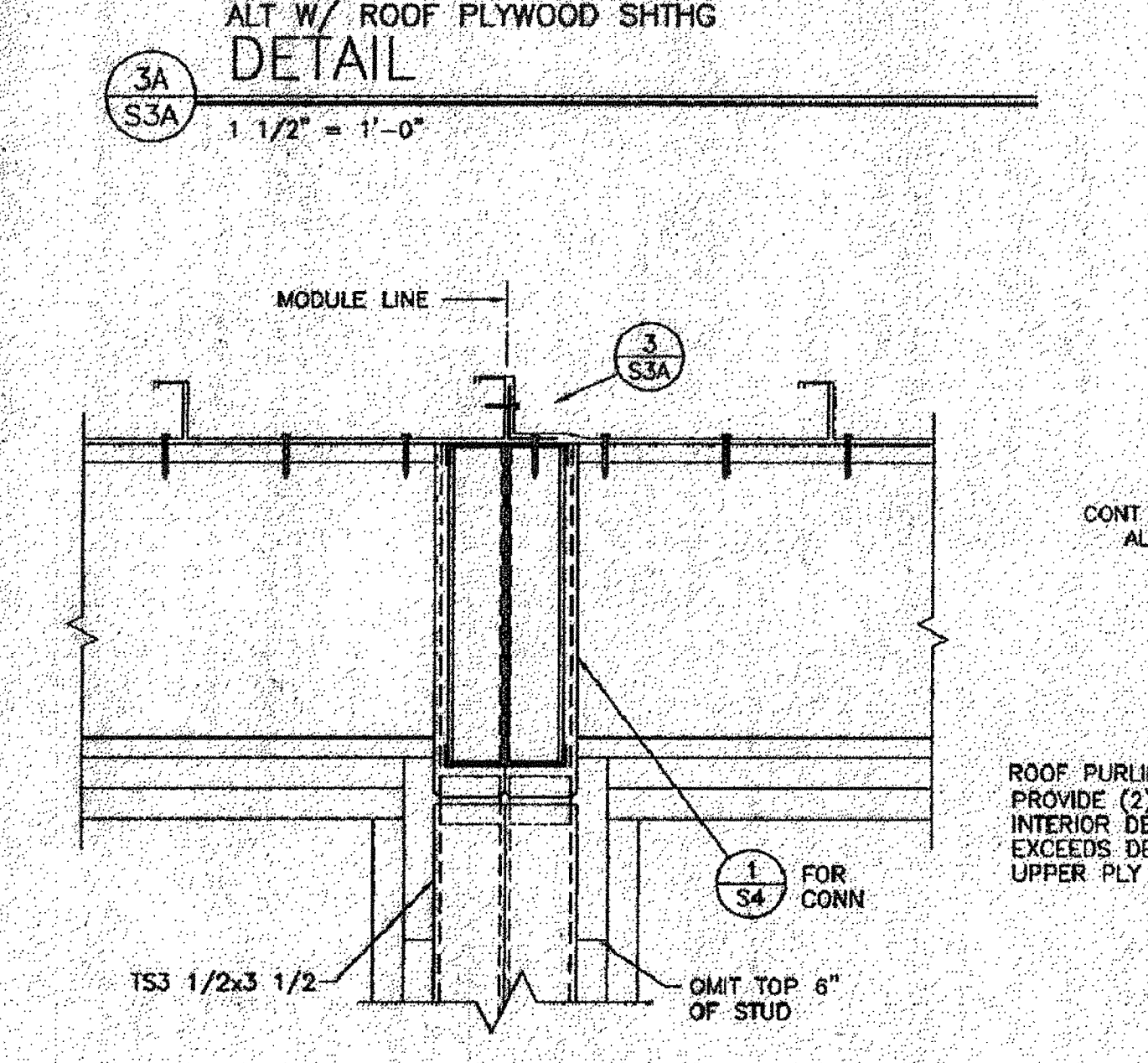
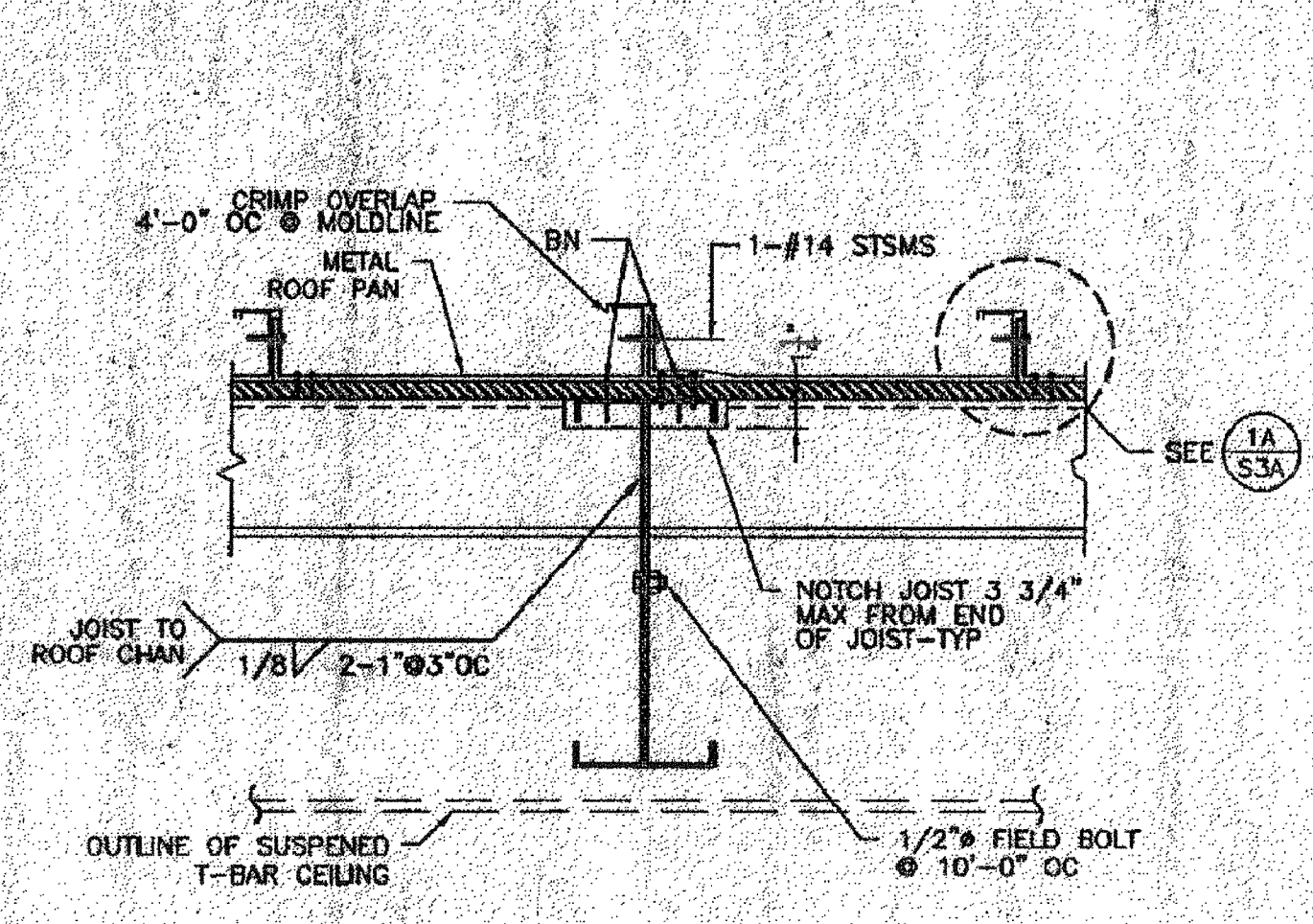
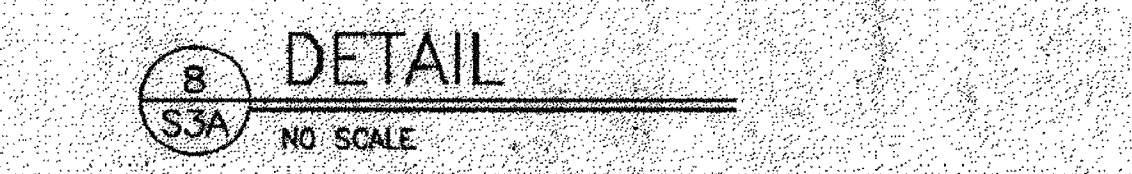
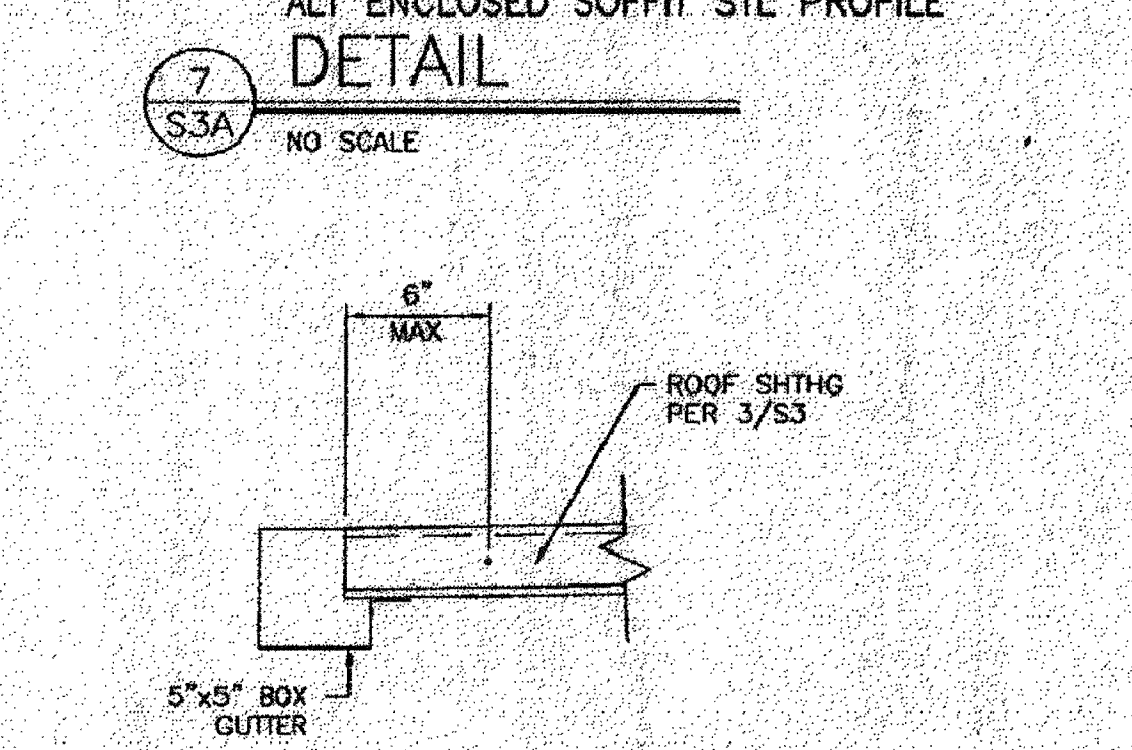
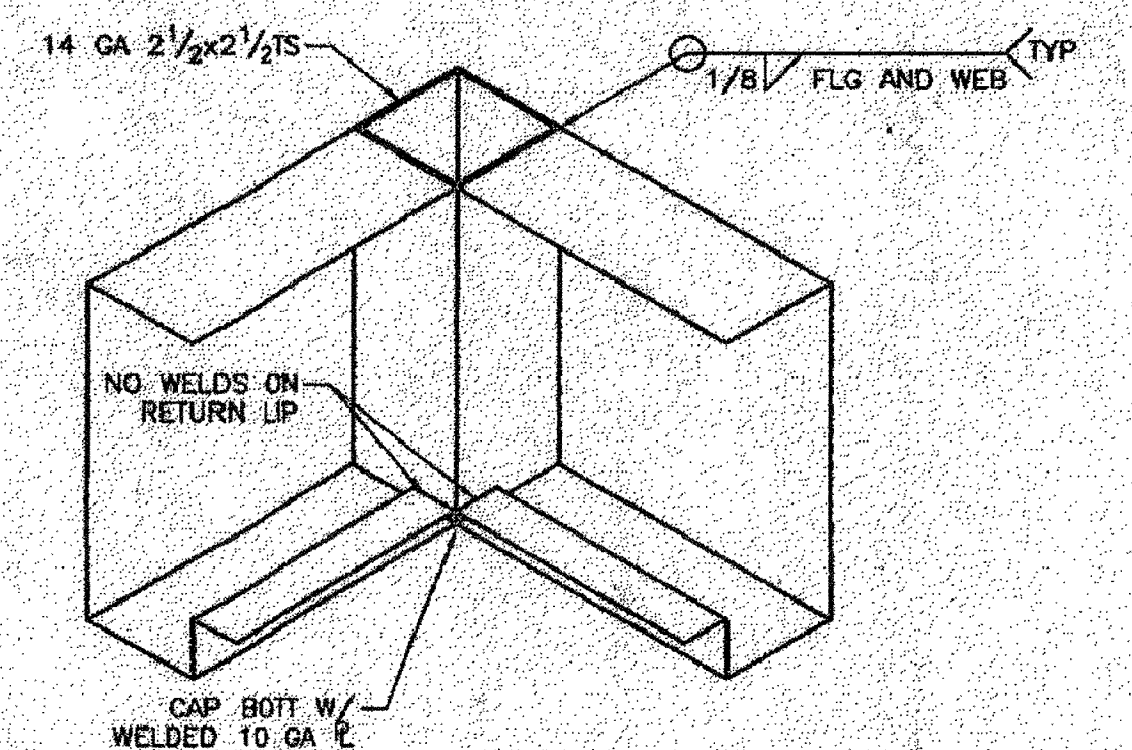
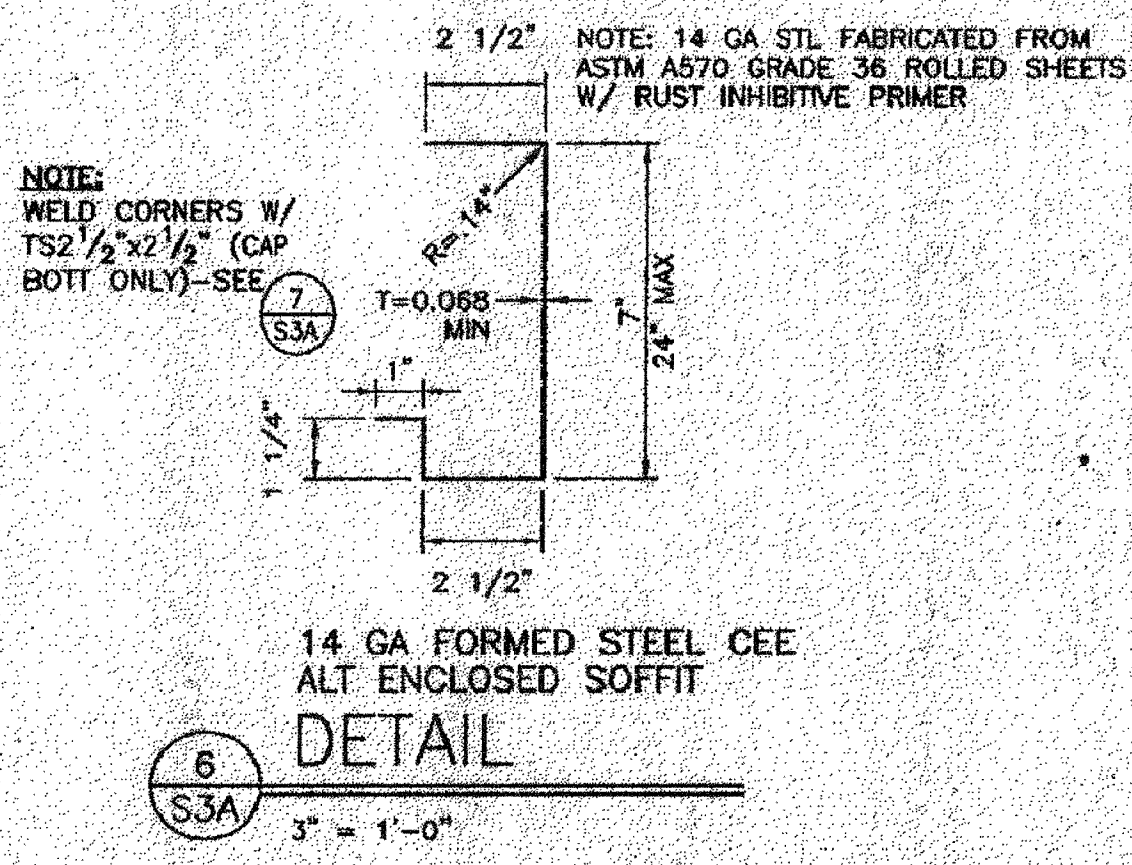
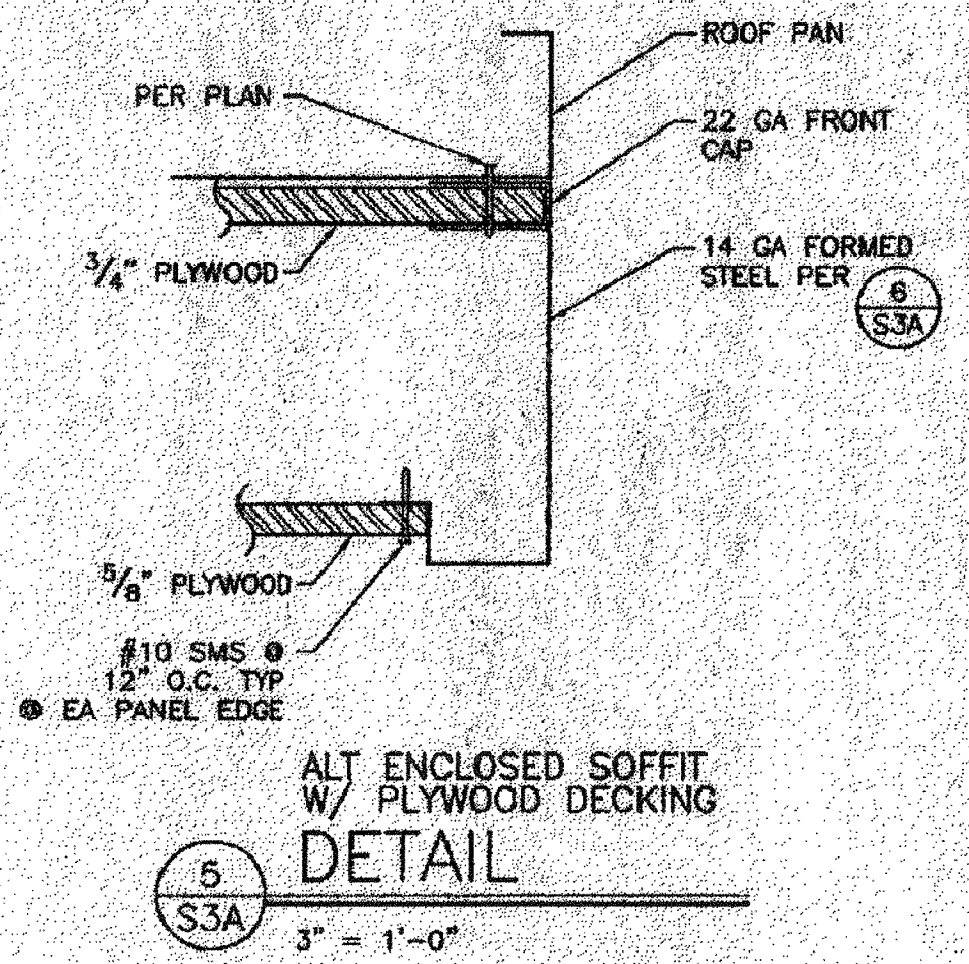
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S3

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
ACS FILE NO. 110118
DATE 8-20-2007

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02 1056 01
ACS FILE NO. 110118
DATE 8-20-2007



IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATORY SERVICES
APPLICATION NO. 02156-01
ACS FILE NO. 110118
DATE 8-20-2007



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24 x 40
RELOCATABLE
CLASSROOM

AMS
American Modular Systems Inc.
787 Sprichole Ave, Marietta, GA 30066
(770) 825-1921 Fax (770) 825-7018
www.amermodular.com

REGISTERED ARCHITECT
No. C 15681
Date: 2/21/03
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
No. 149
Exp. 3/31/05
Professional Engineer
STATE OF CALIFORNIA

CUSTOMER: _____
PROJECT: _____
ROOF SECTIONS AND DETAILS

DATE: 5/30/03
SCALE: AS NOTED
DRAWN BY: REM
DESIGNED BY: MOB
CHECKED BY: KAL
SERIAL NO. _____

REVISIONS					
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

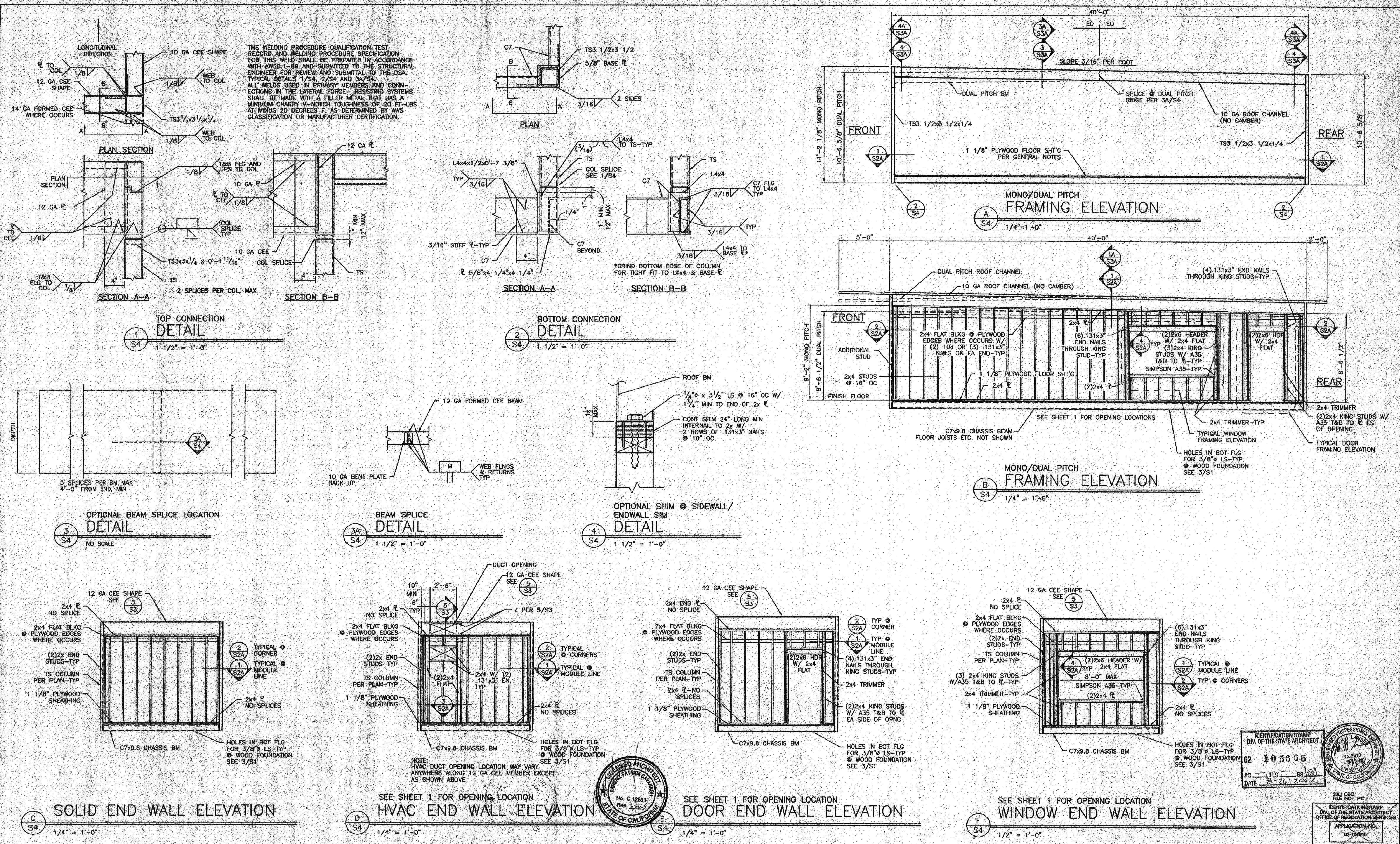
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02156-01
SHEET No.
S3A

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
ACS DATE: 1/10/08

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 105605
AC: FLS 68 100
DATE: 12-26-2002

REGISTERED PROFESSIONAL ENGINEER
No. 2310
Exp. 12/31/04
Professional Engineer
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 01-117316
ACS DATE: JUL 23 2003



THE WELDING PROCEDURE QUALIFICATION TEST RECORD AND WELDING PROCEDURE SPECIFICATION FOR THIS WELD SHALL BE PREPARED IN ACCORDANCE WITH AWS D.1.1-89 AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND SUBMITTAL TO THE USA. TYPICAL DETAILS 1/2\"/>

E:\02156\01\040\3780\3780.dwg, Time: 03/20/03 - 09:45:50m, Log: 03/20/03 09:45:50m, Dimensions: 8.5 L x 11.5 W x 0.25 H

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 APPL 01-117316
 ACS FLS 30-11-18
 DATE 11/10/18

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION & ENFORCEMENT
 No. C 12851
 Ken A. Lumb
 No. 2310
 02 105605
 AC FLS 68
 DATE 8-10-2002

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION & ENFORCEMENT
 APPLICATION NO. 02-105618
 AC FLS 68
 DATE 11-23-02

AMS
 American Modular Systems Inc.
 787 Spruceville Ave., Mariposa, CA 95338
 (209)829-1921 Fax (209)825-7018
 amwinformodular.com

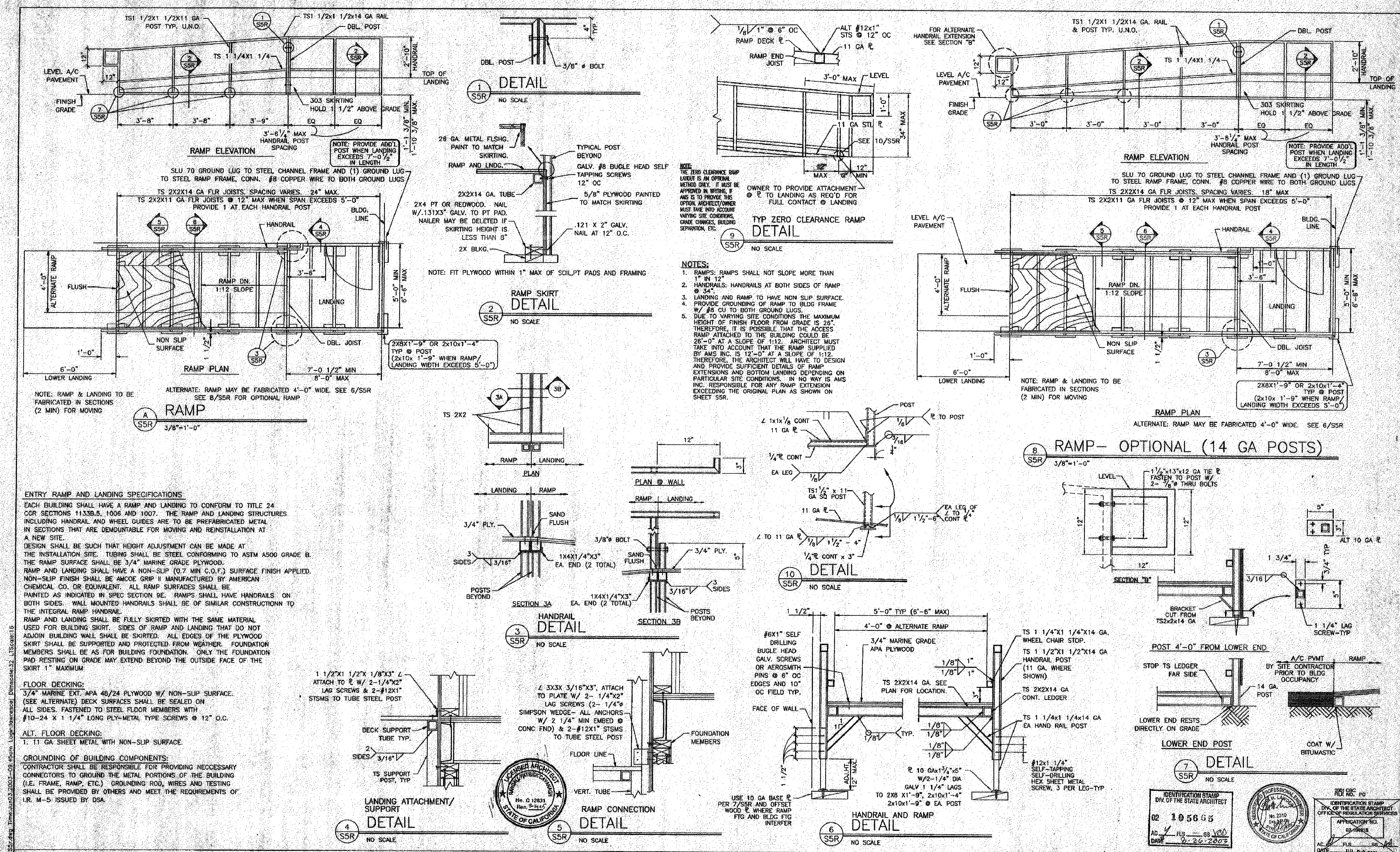
REGISTERED PROFESSIONAL ENGINEER
 Kenneth A. Lumb
 No. 148
 Exp. 3-31-05
 Structural Engineer

CUSTOMER: _____
 WALL FRAMING ELEVATIONS AND FRAME DETAILS

DATE: 5/30/03
 SCALE: AS NOTED
 DRAWN BY: REM
 DESIGNED BY: MGB
 CHECKED BY: KAL
 SERIAL NO. _____

REVISIONS					
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

PROJECT No. 02156-01
 SHEET No. S4



ENTRY RAMP AND LANDING SPECIFICATIONS

EACH BUILDING SHALL HAVE A RAMP AND LANDING TO CONFORM TO TITLE 24 CCR SECTIONS 1133B.5, 1006 AND 1007. THE RAMP AND LANDING STRUCTURES INCLUDING HANDRAIL AND WHEEL GUIDES ARE TO BE PREFABRICATED METAL IN SECTIONS THAT ARE DEMOUNTABLE FOR MOVING AND REINSTALLATION AT A NEW SITE.

DESIGN SHALL BE SUCH THAT HEIGHT ADJUSTMENT CAN BE MADE AT THE INSTALLATION SITE. TUBING SHALL BE STEEL CONFORMING TO ASTM A500 GRADE B. THE RAMP SURFACE SHALL BE 3/4\"/>

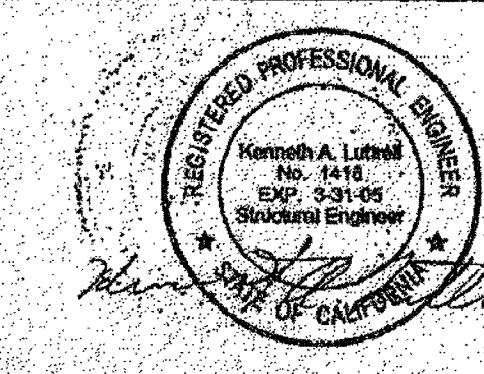
FLOOR DECKING:
3/4\"/>

ALT. FLOOR DECKING:
1. 11\"/>

GROUNDING OF BUILDING COMPONENTS:
CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING NECESSARY CONNECTORS TO GROUND THE METAL PORTIONS OF THE BUILDING (I.E. FRAME, RAMP, ETC.) GROUNDING ROD, WIRES AND TESTING SHALL BE PROVIDED BY OTHERS AND MEET THE REQUIREMENTS OF I.R. M-5 ISSUED BY DSA.

NOTES:

1. RAMP: RAMP SHALL NOT SLOPE MORE THAN 1\"/>
- 2. HANDRAILS: HANDRAILS AT BOTH SIDES OF RAMP @ 34\"/>
- 3. LANDING AND RAMP: TO HAVE NON SLIP SURFACE.
- 4. PROVIDE GROUNDING OF RAMP TO BLDG FRAME W/ #8 CU TO BOTH GROUND LUGS.
- 5. DUE TO VARYING SITE CONDITIONS THE MAXIMUM HEIGHT OF FINISH FLOOR FROM GRADE IS 26\"/>



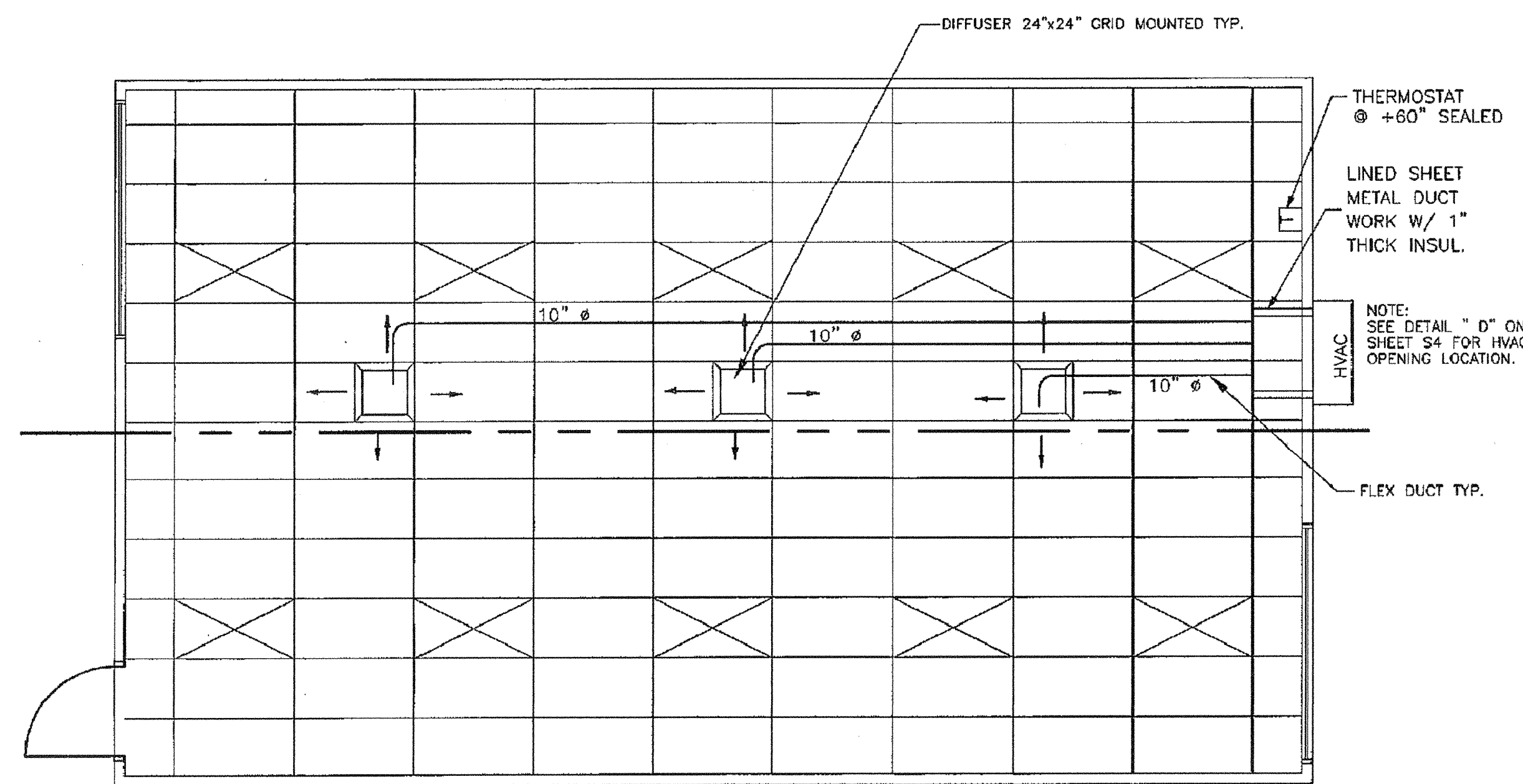
CUSTOMER: _____

DATE: 5/30/03
SCALE: AS NOTED
DRAWN BY: REM
DESIGNED BY: MGB
CHECKED BY: KAL
SERIAL NO. _____

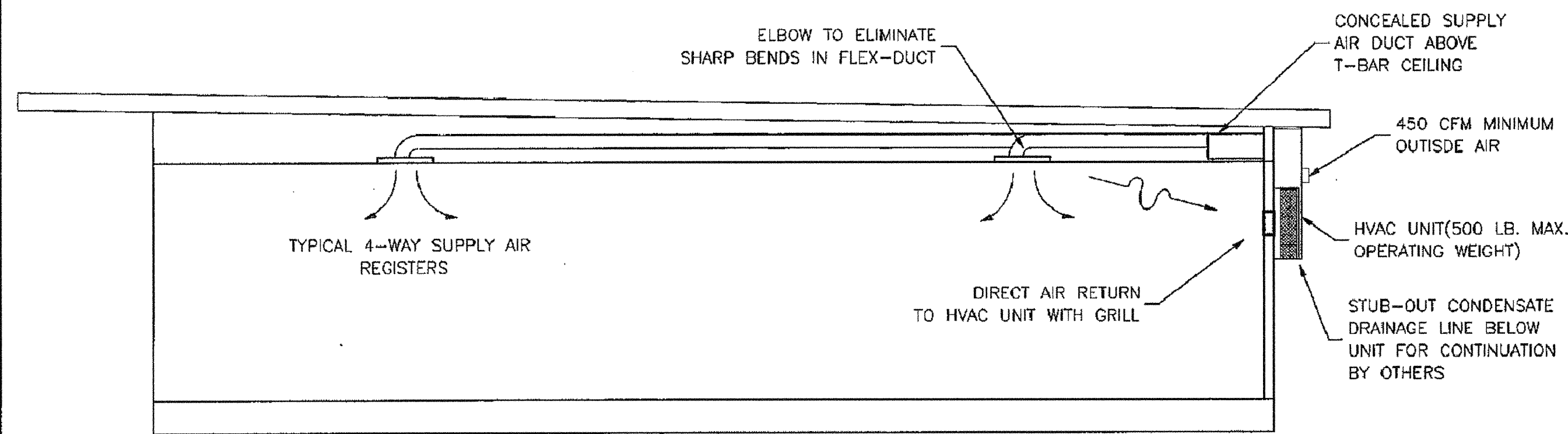
REVISIONS					
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No. 02156-01
SHEET No. S5R

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
DATE 1/10/03



B
M1 HEAT/SUPPLY AIR DUCT LAYOUT
SCALE: 1/4"=1'-0"



A
M1 HEAT/SUPPLY AIR DUCT CROSS SECTION
SCALE: 1/4"=1'-0"

TITLE 24 ENERGY COMPLIANCE SUMMARY

PC # 02-104914 & 02-104915 BUILDING DESCRIPTION: 24x40 Relocatable Building
 Note: See Title 24 Energy Compliance Report Booklet for More Details. Manufacturer: American Modular Systems

Envelope Measures

INSULATION	GLAZING
Roof: R-19 (Bat)	Panes: Dual U-Factor: 0.525
Wall: R-11 (Bat)	Frames: Metal SHGC: 0.45
Floor: R-11 (Bat)	Tinting: Solar Gray Tinting

Lighting Measures

Code	Quantity	Description	Lamp/Ballast	Total Watts
A	10	(2) 48. Incompact TB Elec	330W / Electronic	1,140

Controls for Credit: Occ Sensor > 250 sq ft

Mechanical Measures

Unit	Qty	Type	OSA	Cooling Eff.	Heating Eff.
BARD WH421A	1	Heat Pump	710 cfm	10.50 SEER	7.50 HSPF

HP T-Stat: Electric Heat (KW): 0.0 kw, Duct Location: Conditioned Space
 Economizer: Duct Insulation: R-4.2

HVAC CFM CHART

MODEL NUMBER	DESCRIPTION	MAX. CFM
WH421-A	3-1/2-TON HEAT-PUMP	1400
WH482-A	4-TON HEAT PUMP	1550
WH602-A	5-TON HEAT-PUMP	1700

DUCT SUPPORT
 Flex duct to be supported with 1-1/2" wide x 26 ga. galv. strap @ max 6'-0" o.c. Attach to rafter W/2 #8 SMS @ each end.
 Supply air plenum to be supported with 1-1/2" wide x 26 ga. galv. straps min. 2 per plenum.
 Supply air box and diffusers to be supported with (2) 12 ga. hanger wires to box @ opposite corners.
 Supply air box and diffusers to be braced with (2) 12 ga. slack wires to box @ opposite corners. Attach supply air diffusers to ceiling grid to resist a lateral load equal to the weight of the diffuser and supply air box W/2 #8 SMS.

THESE DRAWINGS COMPLY WITH THE ENERGY CONSERVATION REQUIREMENTS OF TITLE 24 OF THE STATE OF CALIFORNIA

NOTE
 STUB OUT LOCATIONS FOR WATER, WASTE AND GAS ARE DIAGRAMMATICAL ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT THE FACE OF THE BUILDING.

GENERAL NOTES

- HEATING VENTILATING AND AIR CONDITIONING (HVAC)
- Heat Pump: Single package wall mounted air to air electric heat pump unit shall be rated in accordance with ARI Standard 240-77.
 Reference Brands: BARD WH421A-XXXXXX
 BARD WH482A-XXXXXX
 BARD WH60A-XXXXXX
 MAXIMUM AC SIZE FOR THIS BUILDING WILL BE A 5-TON UNIT
 All units shall be 230/208 volt, 1 phase system, UL tested & approved or comparable and meet current energy standards.
 A.) The system shall maintain an automatically controlled indoor classroom temperature of 78 degrees F. When the outdoor dry bulb temperature varies between 100 degrees F. in the summer
 B.) The system must maintain the above temperature when the damper is adjusted to use approximately one third fresh air.
 - Ductwork.
 A.) Construct all ductwork of galvanized sheet metal in accordance with C.M.C., Ashrae Guide Equipment volume and Smacna Low Velocity Duct Construction manual latest editions. All ductwork shall be insulated with 1" thick fiberglass duct wrap with vapor barrier. Provide 1" duct attenuation at all ductwork within 2'-0" of HVAC unit.
 B.) Non-metallic ductwork option: In accessible concealed portions of duct system rigid 1" fiberglass or insulated flex-duct with vapor barrier may be substituted for sheet metal ductwork. All ductwork within 2" of the HVAC unit and all interface connections shall be metal. Ductwork and reinforcement shall be designed for 2" static pressure.
 Reference Brands: Owens-Corning fiberglass ductboard, 1" thick, and Micro-air, TYPE 475. Non-metallic ductwork shall conform to NFPA 90-A and SMACNA Class 1 rating.
 - Air duct insulation and linings shall comply with flame spread less than or equal to 25, smoke generation less than or equal to 50.
 Supply air diffusers shall be 675 CFM max. 12" round. 1" fiberglass or flexduct ductwork specifically designed to provide air thermal cooling systems. 24"x8"x1" Micro-Aire type #475 Owens-Corning, Knaf, Certainteed, or equal and 90-B: UL #131 test, class 1 rating with "SMACNA".
 - Registers and diffusers: Provide three (Min) 4-way throw air diffusers as manufactured Carnes, Titus, Hart and Cooley, Metaloire, Shoemaker, Barber-Coleman or Krueger commercial grade grills and registers Air conditioning controls.
 Thermostat: Provide electronic programmable thermostat. Thermostat shall have the following functions.
 A.) 5 and 2 weekday/weekend programming with 4 separate time/temperature setting for 24-hour period.
 B.) Key board lockout switch.
 C.) Programmable display.
 D.) 2-hour override minimum.
 E.) Status indicated Led's.
 F.) Battery back-up.
 Provide locking clear thermostat cover with thermostat cover with access hole for program override. White Rodgers IF92-371 @ +60" SEALED.
 - Thermal insulation
 A.) Roof Insulation: R-19 Unfaced.
 B.) Walls Insulation: R-11 Kraft Faced.
 C.) Floors Insulation: R-11 Kraft Faced.
 Flame spread and smoke development shall conform to California Building Code sec. 707.
 - Factory-made air ducts. Factory-made air ducts shall be approved for the use intended or shall conform to the requirements of U.M.C. Standard No. 6-1. Each portion of a factory-made air duct system shall be identified by the manufacturer with a label or other suitable identification indicating compliance with U.M.C. Standard No. 6-1 and its class designation. These ducts shall be listed and shall be installed in accordance with the terms of their listing and the requirements of UMC STD. 6-1.

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 APPL 01-117316
 DATE 11/10/18

24 X 40
 RELOCATABLE
 CLASSROOMS



CUSTOMER: MOBILE MODULAR MANAGEMENT
 MMM #368 THRU #371

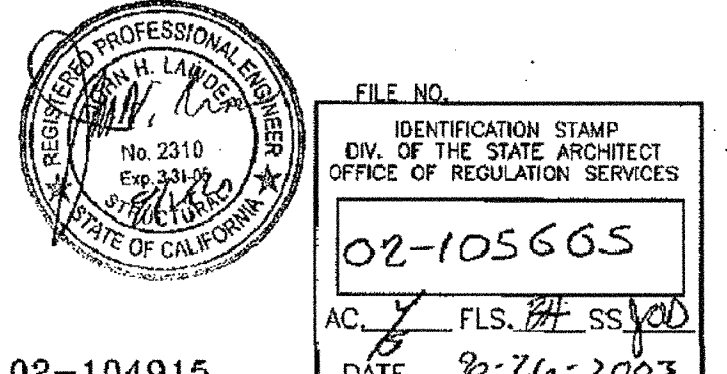
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 DRAWN BY: Y.A.
 CHECKED BY:
 SERIAL NO.

MECHANICAL PLAN & NOTES

BASED ON PC 02-104915

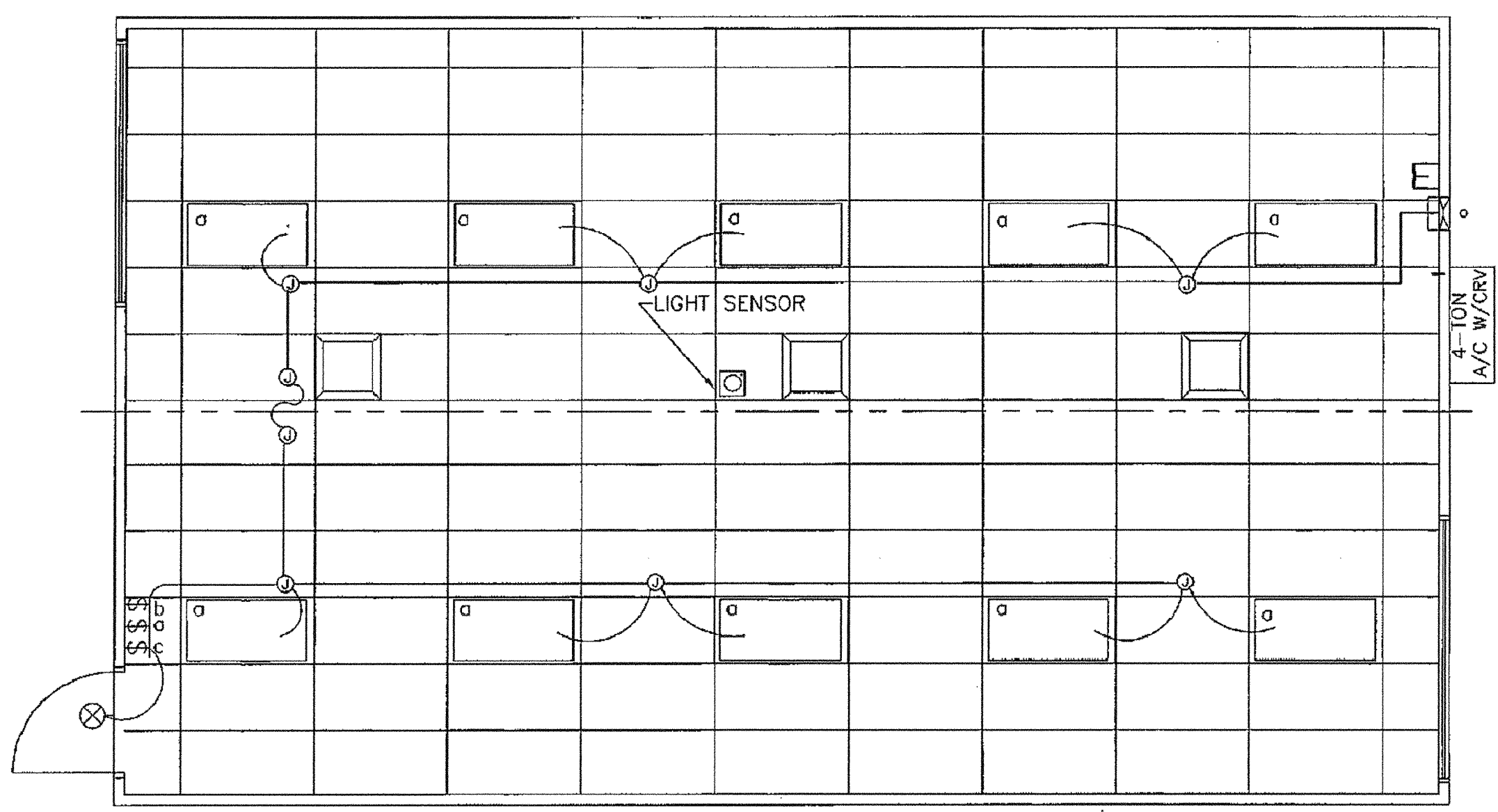
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PROJECT No.
 SHEET No.
M1



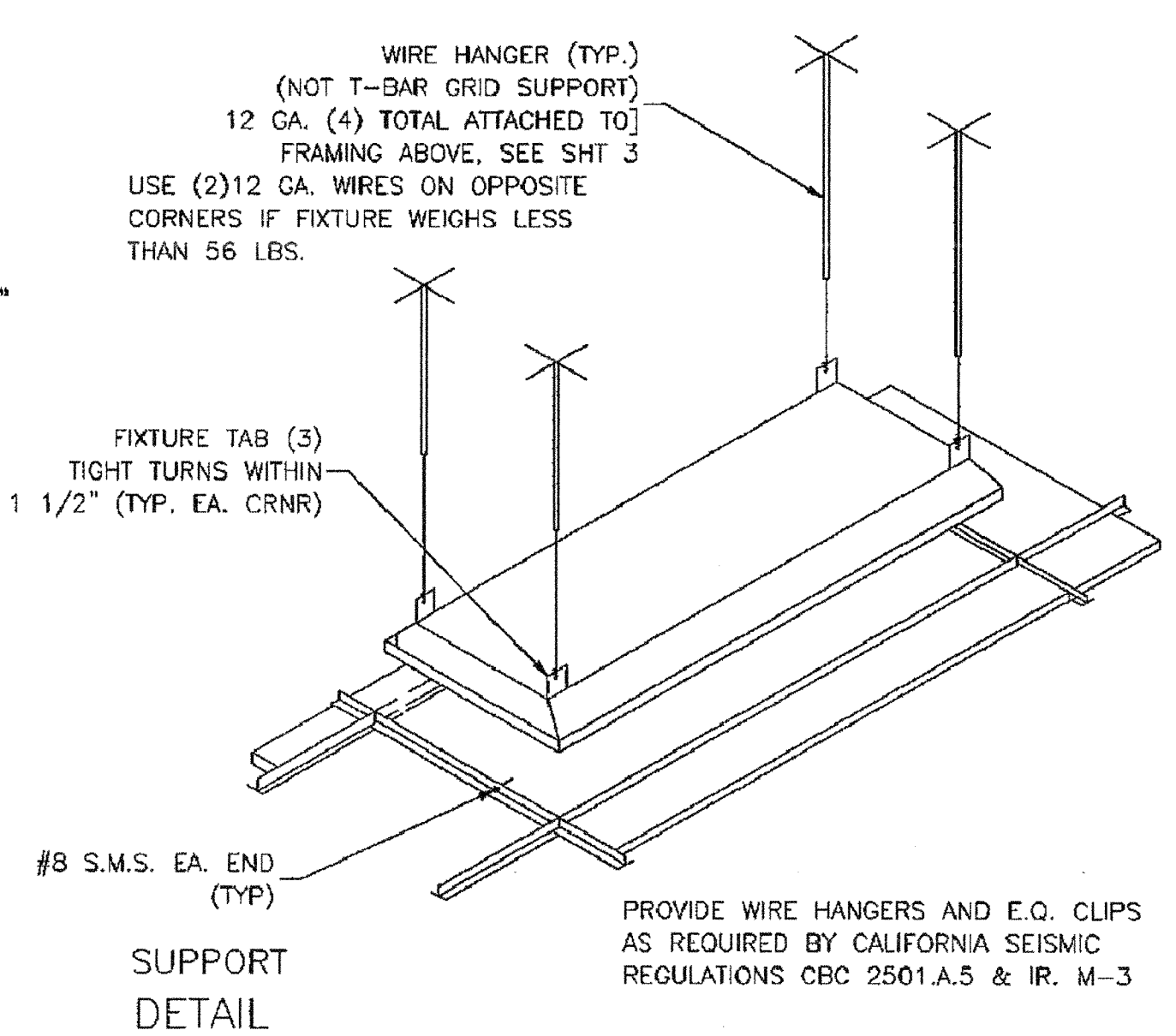
STANDARD ELECTRICAL SYMBOLS

- FLUORESCENT LIGHTING FIXTURE - SURFACE MOUNTED.
- FLUORESCENT LIGHTING FIXTURE - RECESSED.
- FLUORESCENT LIGHTING FIXTURE - WALL MOUNTED (EXTERIOR).
- INCANDESCENT LIGHTING FIXTURE - WALL MOUNTED (INTERIOR).
- DUPLEX WALL CONVENIENCE OUTLETS +18".
- SINGLE POLE LIGHT SWITCHES +48", HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- ELECTRICAL CROSSOVER J-BOXES ABOVE T-BAR CEILING #1-4"x1", #22 4"x2"
- WALL CLOCK OUTLET WITH POWER OUTLET +84".
- SWITCH SUBSCRIPTS - α=DEVICE CONTROLLED.
- 15 AMP DUPLEX RECEPTACLE +18".
- JUNCTION BOX - SIZE AND TYPE AS REQUIRED.
- PANELBOARD - SEE SCHEDULE.
- TERMINAL CABINET - SIZE AND TYPE AS NOTED.
- CONDUIT CONCEALED IN CEILING OR WALL.
- CONDUIT CONCEALED BELOW FLOOR OR GRADE.
- HOMERUN TO RESPECTIVE PANEL TO TERMINAL.
- INDICATES #14 (GREEN) GROUND WIRE, OTHER SIZES AS INDICATED.
- BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION IS A 2#14 WIRE CIRCUIT. FOR MORE THAN 2#14 WIRES AS FOLLOWS, -#-3#14, -#-4#14 ETC. FOR OTHER SIZES AS FOLLOWS, -#-3#10, -#-4#6 ETC.
- NOTE
- FIXTURE IDENTIFICATION - LETTER INDICATES TYPE.
- N.I.E.S. ABBREV. FOR NOT IN ELECTRICAL SECTION OF THESE PLANS AND SPEC'S.
- MT ABBREV. FOR EMPTY CONDUIT WITH POLY PULL CORD.
- FUSED DISCONNECT SWITCH SIZE AS REQUIRED. PROVIDE FUSES AS RECOMMENDED BY EQUIPMENT SUPPLIER.
- (W.E.F.) WALL MOUNTED EXHAUST FAN N.I.E.S. CONNECT AS REQUIRED.
- 50 AMP 250 VOLT RANGE RECEPTACLE.
- FIRE ALARM STATION - OUTLET ONLY. 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48" CENTERLINE
- FIRE ALARM HORN - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +90" MIN. AND NOT LESS THAN 6" BELOW FINISHED CEILING.
- FIRE ALARM VISUAL ALARM - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER BOTTOM +80". A.F.F. BUT NO GREATER THAN +98". IF CEILING MOUNTED PER NFPA72 TABLE 6-4.4.1(b).
- SPEAKER - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +84"
- INTERCOM TELEPHONE - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48"
- FIRE ALARM MINI HORN - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +90" MIN. AND NOT LESS THAN 6" BELOW FINISHED CEILING.



1 LIGHT FIXTURE PLAN
E1 1/4" = 1'-0"

The H.V.A.C. unit feeder circuit - panel circuit breaker, feeder wire, unit disconnect and fuses (where used) - is to be coordinated with the name plate data at the time of manufacture. H.V.A.C. units having KVA ratings larger than that indicated on this panel schedule will not be allowed to be installed on this building. If 80 degrees C. wire is to be used in this installation, calculations demonstrating ampacity be provided on the drawing.



SUPPORT DETAIL

SYMBOL	DESCRIPTION	WATTS	MANUFACTURER
[Symbol]	2'X4' FLUORESCENT DROP IN FIXTURE, ACRYLIC PRISMATIC LENS. T-8 ELECTRONIC BALLASTS (3)35 WATT TUBES, WT. 27 LBS.	SP41 32 W	CRESCENT MASTER 240P332FSA11K0YU1 SLAVE 240P332FSA11XXV6
[Symbol]	FLUORESCENT SURFACE MOUNTED EXTERIOR LIGHT WITH IMPACT RESISTANT ENCLOSURE. 1/25 THICK CLEAR PRISMATIC ONE PIECE LENS W/ NEOPRENE GASKET & "POSGRIP" STAINLESS STEEL SCREWS.	(2) 7W TT 2700 K	KENALL 3714 OR LITHONIA 202 2/7PL LP

SEE TYPICAL CLASSROOM LAYOUT FOR LOCATIONS OF ALL DEVICES. FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS. THE LIGHTS FOR EACH ROOM OVER 250 SQUARE FEET SHALL BE CONTROLLED BY ULTRASONIC OCCUPANCY SENSOR, WATT STOPPER W-500A, W-1000A, OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE. IN CONJUNCTION WITH BI-LEVEL SWITCHING.

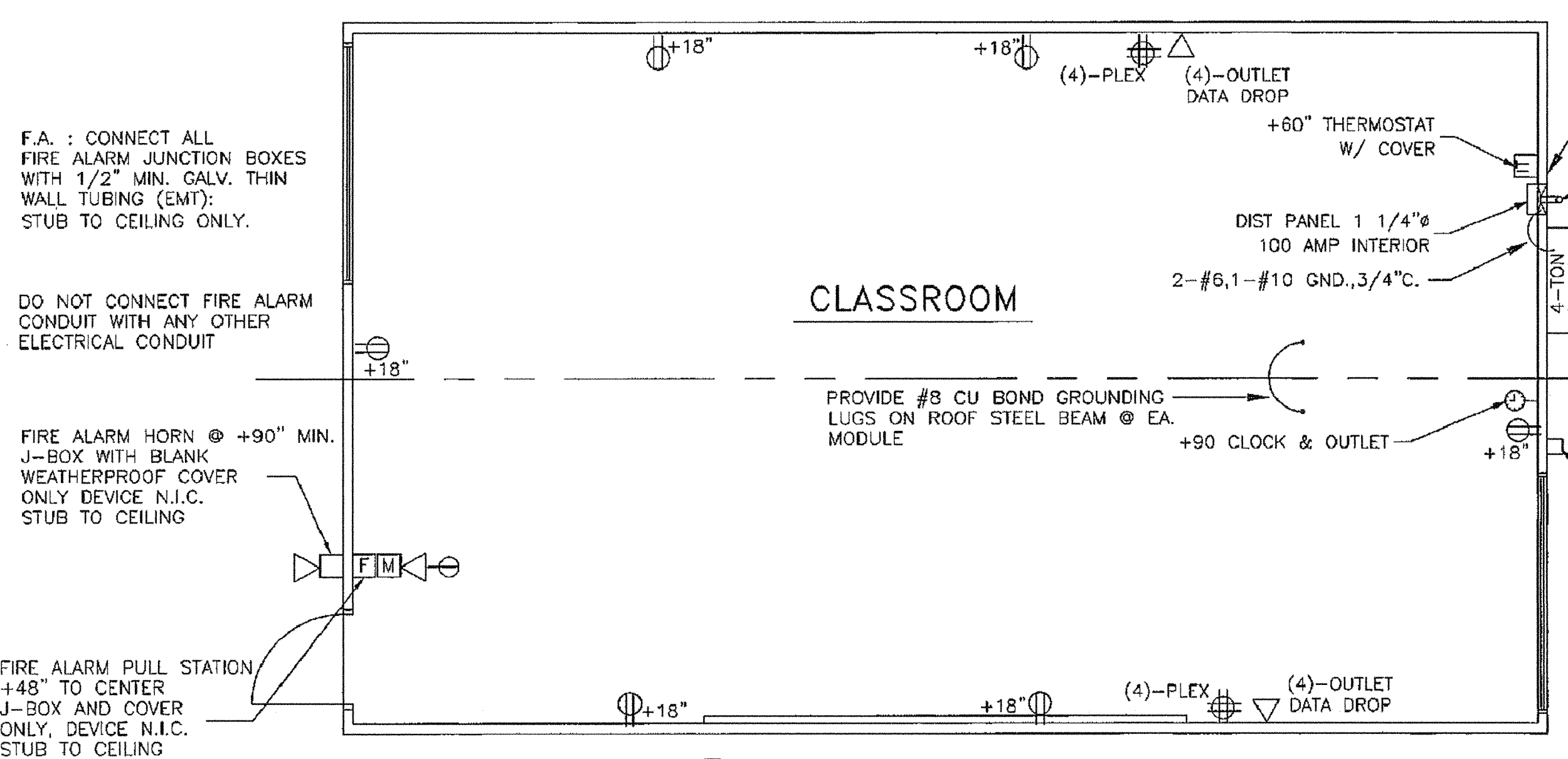
- FIRE ALARM SYSTEM**
- THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE.
 - INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE DIVISION OF THE STATE ARCHITECT.
 - UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.

- GENERAL NOTES**
- GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC
 - ALLOW FOR 12" MOVEMENT IN ANY DIRECTION IF PAD FOUNDATION IS USED.
 - PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
 - PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.

- FIXTURE NOTES:**
- ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
 - LUMINAIRES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE TITLE 24.
 - FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.

- ELECTRICAL**
- Electrical service drop and connections supplied by others.
 - Manufacturer to provide stub-out from back of electrical panel through the exterior wall for receiving either underground or overhead service & fitting for grounding cable.
 - Electrical panel board shall be recess mounted inside the building. Sized to accommodate all connected loads including spaces as shown. Overcurrent protective devices in the panel boards have adequate short circuit interrupting capacity. All buses including bus shall be copper or aluminum.
 - 2'X4' Fluorescent fixtures shall be steel frame, lens shall be hinged and locked in place by two locking devices. The lens diffusers shall be KHS, Inc. #KSH-12, Corolite, Inc. #C-12 or Piaskolite, Inc. #PL21A. Minimum lens thickness shall be .125 inch.
 - Fluorescent ballast shall be energy saver while maintaining full light output, class "P" equipped with thermal protectors, guaranteed against failure for (2) years and be replaced from inside the fixture.
 - Clock - 12" dial clock on clock outlet.
 - Clock shall be General Electric model 2912 129V 60 cycle
 - Clock outlet shall be Bryant #2828 or equal with separable hanging clip & opp'd recept.

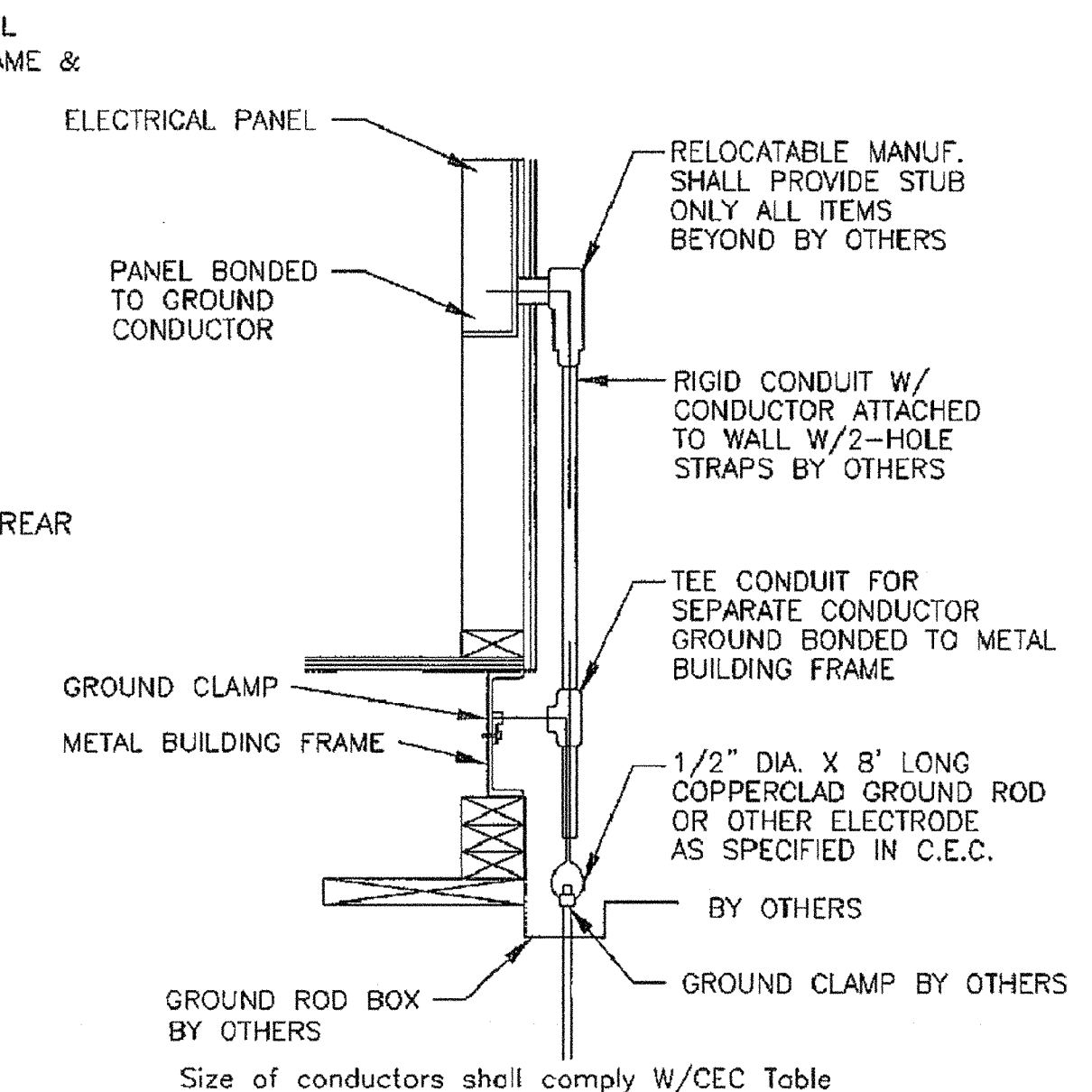
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
AC DATE 11/18



2 ELECTRICAL PLAN
E1 1/4" = 1'-0"

FIRE ALARM
Junction boxes - Galvanized sheet metal, square or rectangular with blank covers. Locate one box at rear of building near main electrical panel at +18" above finish floor for future connection.
Covers - install gasketed, metal, waterproof, finish covers at exterior locations. Install finish covers at interior locations.
If testing results determine fire alarm audibility does not meet 15db over ambient noise levels, additional fire alarm signaling devices may be required by the enforcing agency

NOTE:
THE PROJECT ARCHITECT SHALL BE RESPONSIBLE FOR THE PLACEMENT OF HEAT AND SMOKE DETECTORS WHEN THE SITE SPECIFIC PROJECT IS REQUIRED TO MEET THE PROVISIONS OF SB 575



Size of conductors shall comply W/CEC Table Bond separate conductors from ground rod to electrical panel & metal building frame. In addition to the detail shown above, bond the electrical ground to metal water pipe embedded @ least 10' into the soil if available.
Electrical bond modules together w/#8 CU @ midline. By manufacturer. Check resistance to ground. If resistance exceeds 25 OHMS, install additional ground rods as required. Grounding detail per I-R M-3 INSPECTOR TO WITNESS GROUNDING TEST.

A BUILDING GROUND DETAIL
E1 N.T.S.

120/208 VOLT IS EXCEPTABLE

LOAD	120/240 SINGLE PHASE				PANEL: A				FEED: EXTERIOR LB			
	WATTS		BRK.		C A B		C BRK.		WATTS		LOAD	
LIGHTS, FLUORESCENT	570	15	1	1	2	2	70	6600	A/C HVAC UNIT			
LIGHTS, FLUORESCENT	670	15	1	3	4	2	70	6600	SPACE			
EXTERIOR LIGHT & CLOCK	100	15	1	5	6							
DUPLEX RECEPT.	720	15	1	7	8							
DUPLEX RECEPT.	720	15	1	9	10							
SPACE				11	12							
				13	14							
				15	16							
PHASE WATTAGE	1390	1290	17	18	6600	6600	PHASE WATTAGE					
TOTAL WATTS "A"LEG: 7990	TOTAL WATTS A+B= 15880		TOTAL WATTS "B" LEG 7890									
TOTAL WATTS: 15880	67		AMPS 120/240V SINGLE PHASE		100AMP BUS.							

FEEDERS: TO BE RUN BY THE DISTRICT EITHER UNDERGROUND OR OVERHEAD, SEE SITE ELEC. PLAN.

3 ELECTRICAL DISTRIBUTION PLAN
E1 1/4" = 1'-0"

NOTE
STUB OUT LOCATIONS FOR ELECTRICAL PANEL, FIRE ALARM, AND DATA BOXES. LOCATIONS SHOWN ARE DIAGRAMMATICAL ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT FACE OF BUILDING.

PROFESSIONAL ENGINEER
No. 2310
Exp. 12/31/2003
STATE OF CALIFORNIA
DATE 8-26-2003

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-108665
AC DATE 8-26-2003

24 X 40
RELOCATABLE
CLASSROOMS



CUSTOMER:
MOBILE MODULAR MANAGEMENT #388 THRU #371

DATE: 08-25-03
SCALE: NONE
DRAWN BY: M.H.
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
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▲			▲		

PROJECT No.

SHEET No.
E1

ELECTRICAL PLAN & NOTES



American Modular Systems Inc.

12-24 X 40 RELOCATABLE CLASSROOMS MOBILE MODULAR MANAGEMENT CORP.

TEST AND INSPECTION LIST

TESTING LABORATORY: _____ DATE: _____
 24x40 BUILDINGS SERIAL #05-100-743 THRU #05-100-751
 NAME: #05-100-754 THRU #05-100-756
 DISTRICT/OWNER: MOBILE MODULAR MANAGEMENT CORP.
 DIVISION-FILE NO. 39-0 APPLICATION NO. 02-1071
 ARCHITECT: JOHN H. LAWDER
 STRUCTURAL ENGINEER: _____

STATE OF CALIFORNIA
 DEPT. OF GENERAL SERVICES
 DIVISION OF THE
 STATE ARCHITECT
 STRUCTURAL
 TESTS
 AND
 INSPECTIONS
 ORS 103-1 (R 11/85)

The following tests and inspections, as checked, will be required as detailed in applicable specifications.

COMPACTED FILL	CONCRETE		GROUT		MORTAR	
	TEST	STATUS	TEST	STATUS	TEST	STATUS
Fill material, acceptance tests			Test of aggregates for mix design only			
Compaction control, acceptance			Acceptability tests of aggregates as detailed below			
Composition tests, only as ordered			Mix design			
Bearing capacity of compacted fill			Continuous batch plant inspection			
REINFORCING STEEL			Inspect photos			
Sample and test bar steel			Sample			
Sample and test mesh			Compressive tests			
Inspect posting of job			Pick up samples at job			
STRUCTURAL STEEL			Samples delivered to laboratory			
Sample and test as detailed below			Deliver samples from job site			
Shop fabrication inspection			Sample and test cement			
Field erection inspection						
Inspection of welds - Shop			SUITABILITY TESTS			
Inspection of welds - Field			CONCRETE MATERIALS			
Inspection of welding or bolting - Shop			Sodium sulphate			
Inspection of welding or bolting - Field			Structural strength			
Sample and test high strength bolts and washers			Use Angle girth			
			Use Diameter method			
			Reactivity tests			
			Volume change			
BRICK AND BLOCK			MIX DESIGNS: CONCRETE, GROUT, MORTAR OR GUNITE			
Sample and test						
Test only			MATERIAL	MAXIMUM SIZE	28 DAYS	COMPRESSIVE STRENGTH, PSI, MINIMUM
Inspection of placing						
Core drill samples						
GLUED LAMINATED STRUCTURAL LUMBER						
Shop fabrication inspection						
Sample and test steel accessories						
Inspect fabrication of steel accessories						

List of structural steel members to be tested:
 3 1/2" x 3 1/2" x 1/4" SQ. COL. TESTING MAY BE WAIVED IF STEEL HAS BEEN PROPERLY IDENTIFIED BY MFR'S MILL ANALYSIS AND TEST REPORTS PER TITLE 24, C.C.R., SECTION 2231.A.1
 10 ga. & 12 ga. ROOF CEE
 6 7/8" X 14 GA. FL. JOISTS 6"x14 ga. ROOF JOIST 3 1/2" x 10 ga. ALT. ROOF JOIST
 6 7/8" x 12 ga. ALT. FL. JOIST 4"x12 ga. ALT. ROOF JOIST 2"x18" ga. STRAPS
 3"x18" ga. ALT. STRAPS

Other Tests and Inspections, together with special instructions:
 GROUNDING TEST
 DSA/ORS AMERICAN MODULAR SYSTEMS, INC. SCHOOL DISTRICT ARCHITECT
 By: _____ AUTHORIZED REPRESENTATIVE

INDEX DESCRIPTION

SHEET No.	TITLE & BUILDING DATA NOTES
TS-1	TITLE & BUILDING DATA NOTES
N-1	GENERAL NOTES AND SPECIFICATIONS
1 AND 1A-1B	FLOOR PLAN & NOTES
2 AND 2A	EXTERIOR ELEVATIONS
3 AND 3A-3B	CEILING GRID, DETAILS AND NOTES
4	INTERIOR ELEVATIONS AND OPTIONS
S1	WOOD FOUNDATION PLAN & DETAILS
S1C	50 PSF FLOOR LIVE LOAD
S2	WOOD FOUNDATION 50+20
	FLOOR FRAMING PLAN AND DETAILS
S2A	BUILDING SECTIONS AND WALL DETAILS
S3	ROOF FRAMING PLANS AND DETAILS
S3A	ROOF SECTIONS & DETAILS
S4	WALL FRAMING ELEVATIONS & FRAME DETAILS
S5R	RAMP PLAN, ELEVATIONS AND DETAILS
M1 AND M1A-M1B	MECHANICAL PLAN & NOTES
M2	ENERGY MANDATORY MEASURES
E1 AND E1A-E1B	ELECTRICAL PLAN & NOTES

BUILDING DATA CLASSROOMS

OCCUPANCY	E-1/B	B OCCUPANCY USES TO MEET THE REQUIREMENTS OF CBC TABLE 3-A AND CBC TABLE 5-A
TYPE OF CONSTRUCTION	V - NON-RATED	
WIND LOAD (80 MPH EXPOSURE C)	21 LBS/SQ FT	
FLOOR LIVE LOAD	50 LBS/SQ FT AND 50+20 LBS/SQ.FT.	
ROOF LIVE LOAD	20 LBS/SQ FT (REDUCIBLE)	THIS STRUCTURE IS DESIGNED TO SUPPORT A FIRE SPRINKLER SYSTEM
RAMP LIVE LOAD	100 LBS/SQ FT	
BUILDING AREA	960 SQ FT	
CLIMATE ZONES	1-16	
2001 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR) 2001 CALIFORNIA BUILDING CODE, VOLUMES 1, 2 AND 3 (PART 2, TITLE 24, CCR) (1997 EDITION UNIFORM BUILDING CODE WITH 2001 CALIFORNIA AMENDMENTS) 2001 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR) (1999 EDITION NATIONAL ELECTRICAL CODE WITH 2001 CALIFORNIA AMENDMENTS) 2001 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR) (2000 EDITION IAPMO UNIFORM MECHANICAL CODE WITH 2001 CALIFORNIA AMENDMENTS) 2001 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR) (2000 EDITION IAPMO UNIFORM PLUMBING CODE WITH 2001 CALIFORNIA AMENDMENTS) 2001 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR) 2001 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR) 2001 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR) 2001 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR) NFPA 13, 1999 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED NFPA 14, 2000 EDITION, INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS NFPA 24, 1995 EDITION, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES NFPA 72, 1999 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED		
MODULES	MOMENT-RESISTANT	
SYSTEM	(2) 12' X 40' MODULES	
FOUNDATION	PRESSURE TREATED WOOD	
SEISMIC	ZONE 4	SEISMIC SOURCE A DISTANCE FROM SEISMIC SOURCE ≤ 2 KM SOL TYPE S ₂

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 APP# 01-117316
 ACS FILE # 11/10/18
 DATE 11/10/18



American Modular Systems Inc.
 787 Sorensen Ave. Manteca, CA 95336
 (209)825-1921 Fax (209)825-7018
 americanmodular.com



CBC 2001
 FILE NO. 39-0
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 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 02/107162
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 DATE 4/28/03
 JOB NO.
 DATE: APRIL 28, 2003
 SHEET NUMBER
 TS-1
 BINDING ORDER 1

BASED ON PC# 02-104915

GENERAL NOTES AND SPECIFICATIONS

SECTION 1A GENERAL REQUIREMENTS

1. GENERAL

A. THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THIS GENERAL REQUIREMENT APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH TRADE SECTION.

B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS WITH THE WRITTEN APPROVAL OF D.S.A. AND THE ARCHITECT.

C. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLES 19 AND 24 CALIFORNIA CODE OF REGULATIONS. NO CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF D.S.A. AND THE ARCHITECT.

2. SCOPE OF WORK

A. THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT AND INSTALLING ON-SITE/MODULAR RELOCATABLE BUILDINGS AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS.

B. REQUIREMENTS OF TITLES 24 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:

- GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION BY THE ARCHITECT OF RECORD.
- INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION, WELDING, MECHANICAL, AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICTS.
- ON-SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY INSTALLATION OR CONNECTIONS BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.
- OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.
- ADDENDUMS SHALL BE SIGNED BY THE ARCHITECT & APPROVED BY D.S.A.
- CHANGE ORDERS SHALL BE SIGNED BY THE OWNER & ARCHITECT & APPROVED BY D.S.A.
- THE TESTING LAB SHALL BE IN THE EMPLOY OF THE OWNER.
- ALL CONTRACTORS SHALL VERIFY ALL WORK CONDITIONS, DIMENSIONS AND DETAILS AND REPORT ANY OF ALL OMISSIONS AND DISCREPANCIES TO THE DESIGNER/OWNER IMMEDIATELY BEFORE COMMENCING WORK.
- EACH CONTRACTOR TO BE RESPONSIBLE TO SEE THAT THEIR WORK CONFORMS TO ALL GOVERNMENTAL CODES WHETHER OR NOT SO STATED ON THE DRAWINGS.
- ALL MATERIALS AND WORKMANSHIP TO CONFORM TO THE LATEST REQUIREMENTS OF THE GOVERNING BUILDING CODES IN EFFECT AT THE DATE OF APPLICATION.
- ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED AND ERICATED PER MANUFACTURER'S DIRECTIONS AND INSTRUCTIONS.
- SHOP DRAWINGS MAY BE REQUIRED. IF SO, THEY WILL BE ACCURATELY DRAWN TO A LARGE ENOUGH SCALE TO SHOW ALL PERTINENT FEATURES OF THE ITEM AND ITS CONNECTION TO RELATED WORK.
- THE MANUFACTURER OF BUILDING IS TO PLACE TWO PERMANENT METAL IDENTIFICATION LABEL ON EACH MODULE, MECHANICALLY FASTENED TO THE FRAME SEE "GENERAL DESIGN REQUIREMENTS", THIS PAGE.

FOR PROJECTS MANUFACTURED OFF-SITE, THE PLANT INSPECTOR IS TO INDICATE THE MANUFACTURER'S NAME AND SERIAL NUMBER OF EACH MODULE ON THE VERIFIED REPORT AND D.S.A. APP. NUMBER.

14. ALL TESTS AND INSPECTIONS REQUIRED BY DSA SHALL BE COMPLIED WITH, ALL TESTS REQUIRED BY FIRE AND LIFE SAFETY REGULATIONS SHALL BE BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

FOUNDATION

- DESIGNED ALLOWABLE SOIL BEARING: 1000 PSF.
- FOOTINGS SHALL BE LOCATED ON UNDISTURBED FIRM NATURAL SOIL, APPROVED COMPACTED FILL OR ON AN APPROVED PAVED SURFACE.

NOTE: THE FOUNDATION SYSTEM PRESENTED HEREIN COMPLIES WITH INTERPRETATION OF REGULATIONS, IR 16-1, ISSUED BY DIVISION OF THE STATE ARCHITECT FOR TEMPORARY BUILDINGS. THIS FOUNDATION SYSTEM IS NON-CONVENTIONAL AND THE STRUCTURAL ENGINEER TAKES NO RESPONSIBILITY FOR ITS CONSTRUCTION OR LONGEVITY.

3. WORK NOT INCLUDED

- ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.
- ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- FIRE ALARM SYSTEM, PROGRAM BELL, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TELEPHONE SYSTEM UNLESS OTHERWISE INDICATED ON THE DRAWINGS, OR MODIFIED BY CHANGE ORDER.
- WHEELS AND HITCH
- SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

5. ACCESSIBILITY OF SITE

THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF BUILDINGS. REMOVAL OF TREES SHRUBS, FENCING, SPRINKLERS ETC. NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

TRIM / FINISH NAILING				
DESCRIPTION	SET	SIZE	LENGTH	FINISH
SIDING, SILL & INT. CORNER TRIM	X	16d	1 1/4"	N
2X FASCIA		.131	3"	GALV
SOFFIT		.131	1 1/4"	GALV
1X EXT. TRIM, WINDOWS, EXT. DOORS, EXT. TRIM		.113	2"	GALV

24 X 40
RELOCATABLE
CLASSROOMS

SECTION 5 STEEL

GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC STANDARD SPECIFICATIONS, TITLE 24 OF CALIFORNIA CODE OF REGULATIONS AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OF STEEL STRUCTURAL MEMBERS.

B. CBC SECT. 22134.4.1 SEE 1/54

WELDING - ALL WELDING DONE BY SHIELDED ELECTRIC-ARC OR FLUX CORE-ARC PROCESS COMPLYING WITH REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY. WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT. WELDING INSPECTION PER TITLE 24, PART 2, DCR, SECTION 2231.A.5 WELDING ELECTRODE SHALL BE E70XX.

- STRUCTURAL STEEL SHALL CONFORM TO A.S.T.M. A-36 & A-572 GR. 50 UNLESS OTHERWISE NOTED.
- PIPE COLUMNS SHALL CONFORM TO A.S.T.M. A-53 WITH SULFUR CONTENT NOT EXCEEDING 0.05%.
- STEEL TUBING SHALL CONFORM TO A.S.T.M. A-500 GRADE B OR A.S.T.M. A575 GRADE 80 FOR GALVE TUBING-TYP. U.L.O.
- STRUCTURAL WELDS ARE DESIGNED FOR FULL ALLOWABLE STRESS UNLESS OTHERWISE NOTED.

C. ERECTION - STRUCTURAL STEEL ERICATED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNATED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDED AS INDICATED ON THE DRAWINGS.

D. NAILS, BOLTS, SCREWS AND NUTS ETC. - FOR EXTERIOR WORK SHALL BE CADMIUM PLATED OR GALVANIZED.

- BOLTS FOR STRUCTURAL STEEL JOINTS SHALL CONFORM TO A.S.T.M. A-307 UNLESS OTHERWISE NOTED. ALL HOLES FOR MACHINE AND CARRIAGE BOLTS THROUGH STEEL TO BE DRILLED, OR TORCH PILOT HOLE AND REAM MIN. 1/16" TO CORRECT SIZE.
- NELSON STUDS (WELDED TO STEEL) MAY BE SUBSTITUTED FOR BOLTS SAME LENGTH AND DIAMETER.
- HANDRAILS - FABRICATED, AS DETAILED, WELDS GROUND SMOOTH.

E. SHOP PAINT

- EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
- NON-EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
- ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COAT PRIMER. ALL EXPOSED STEEL SURFACES AFTER FIELD WELDING.

G. TESTS

- PROVIDE MILL CERTIFICATES OR TEST ALL STEEL MEMBERS PER 1-24 PART 2, DCR SECTION 2231.A.1.

SECTION 6 CARPENTRY

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY.

2. MATERIALS

LUMBER GRADE MARKED IN ACCORDANCE WITH "STANDARD GRADING AND DRESSING RULE NO. 17 OF WEST COAST LUMBER INSPECTION BUREAU, OR "GRADING RULES FOR LUMBER" 3RD EDITION AND WESTERN PRODUCTS ASSOCIATION OR W.C.L.I.B. PLYWOOD GRADE MARKED IN ACCORDANCE WITH PRODUCT STANDARD PS 1-36 FOR SOFTWOOD PLYWOOD OF AMERICAN PLYWOOD ASSOCIATION TO BE COATED WITH CBC EACH SHEET SHALL BEAR THE STAMP OF:

A. APA PITTSBURGH TESTING, OR TCC

JOISTS, PLATES, STUDS-DOUGLAS FIR OR HEM FIR S4S #2 U.N.O. NOTE: MSR 1850 E1.5 MAY BE SUBSTITUTED FOR #2 GRADE IF IT MEETS THE STRUCTURAL REQUIREMENTS FOR FLOOR AND ROOF MEMBERS.

4. HEADERS, POSTS AND TIMBERS-DOUGLAS FIR S4S #1

BLOCKING - DOUG FIR FOR #2 OR #1 STD. & BET.

5. SILLS AND LUMBER & SHIM PLATES IN CONTACT WITH CONCRETE, MASONRY OR EARTH, DOUG FIR #2 PRESSURE TREATED IN ACCORDANCE WITH CBC BEAT #1 EACH PIECE SHALL BEAR AWFS STAMP, LP-22, GROUND CONTACT, D.#2 ABOVE GROUND.

E. PLYWOOD ROOF DECKING - SEE S3

F. PLYWOOD FLOOR DECKING - APA STURD-I-FLOOR 2-4-1 OR LVI-FLOOR BY PITTSBURGH TESTING, OR TCC

TONGUE AND GROOVE FLOOR SHEATHING, WITH EXTERIOR GLUE.

EXTERIOR SIDING/SHEATHING - APA TYPE 303 EXTERIOR.

AMERICAN PANEL FIBER CEMENT AS MFG. BY JAMES HARDIE BUILDING PRODUCTS NER-40S REPORT

H. MOISTURE BARRIER - KRAFT WATERPROOF BUILDING PAPER, OR 15 LB. FELT, UBC STANDARD 14-1 FOR KRAFT, 15-1 FOR FELT.

J. STUDS - DOUG FIR #2 OR HEM FIR #2 MOISTURE CONTENT NOT OVER 18%.

K. FASTENERS - ALL NAILS SHALL BE CORROSION RESISTANT PER C.B.C. 2318A.3.4 COMMON NAILS FOR EXT. SIDING & FINISH ONLY.

L. BUILDING TRIM - 2X RESAWN SELECT D.F., H.F., OR CEDAR

M. DOOR/WINDOW TRIM - 1X4 RESAWN D.F., H.F., OR CEDAR

N. FRAMING CONNECTORS SHALL BE FROM SIMPSON CATALOG LATEST ED. FIRE BOLTS SHALL CONFORM TO CBC SECTION 708.

O. ALL NAILS SHALL BE COMMON NAILS UNLESS OTHERWISE NOTED.

FOUNDATION LUMBER: ALL CUT ENDS AND HOLES IN PRESSURE TREATED LUMBER SHALL BE TREATED WITH "CUPROLIN".

3. WORKMANSHIP

FRAMING - SECURELY Nailed, Bridged and Bolted to FORM RIGID STRUCTURE. WORK OUT, FITTED AND ASSEMBLED LEVEL, PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.

C. EXTERIOR WALLS - FACTORY FABRICATED. CALLKING PROVIDED BETWEEN PERIMETER OF WALL AND STRUCTURAL MEMBERS PROVIDING WEATHER-PROOF AND WATER-TIGHT SEAL. NECESSARY GLASSER, SEALS, AND FLASHINGS PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.

D. MACHINE APPLIED NAILING:

USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE.

MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.

MOISTURE BARRIER - APPLIED TO STUDS WEATHER-BOARD FASHION, HORIZONTAL.

JOINTS LAPPED MIN 6" INCLUDING BUILDING CORNERS. SHEATHING APPLIED OVER MOISTURE BARRIER.

F. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING UNLESS TRANSPARENT TYPE.

SECTION 7B SHEET METAL

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.

2. MATERIALS

A. SHEET METAL - STEEL SHEETS HOT DIP GALVANIZED WITH 1.25 OZ. PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A526. MINIMUM 26 GA. UNLESS OTHERWISE NOTED ON THE DRAWINGS.

B. SOLDER - OF STAND-GRADE "A" OF EQUAL PARTS BRAND LEAD AND TIN ASTM B32.

C. FLUX - ZINC SATURATED MURIATIC ACID.

D. CUTTERS: 26 GA. G-90 GALV. STEEL
DOWNSPUTS: 2"X3" CONVULGATED 30 GA. G-90 GALV. STEEL
GUTTER ENDCAPS: 26 GA. G-90 GALV. STEEL
CUTTER CLIPS: 18 GA. G-90 GALV. STEEL

3. WORKMANSHIP

SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR WORK FORMED, FABRICATED AND INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT. ALUMINUM SHALL BE SEPARATED FROM FERROUS METAL BY POLYETHYLENE TAPE OR FLUX COAT OF ASPHALTIC PAINT.

SECTION 7C METAL ROOFING

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL METAL ROOFING. TEST RESULTS SHOWING THE ROOFING SYSTEM WILL WITHSTAND THE UPLIFT OF A 80 MPH WIND SHALL BE SUBMITTED WITH THE PLANS AND SPECIFICATIONS.

2. MATERIALS

A. ROOFING - 3" INCH STANDING SEAM 22-GAUGE G-90 GALV. INTERLOCKING CLASS STL. PANELS (909).

B. ROOFING: SHEET B FIRE RATING

SECTION 7J SEALANT

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO SEAL BUILDINGS.

2. MATERIALS

VULKEM SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL FOR ROOFS. "GEOLC" SILICONEIZED CAULK, GE. DURONT, ENKLESEAL, OR DUP FOR ALL OTHER APPLICATIONS, OR EQUAL.

3. WORKMANSHIP

SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DRAWINGS AND AS NEEDED TO MAKE BUILDING WATER TIGHT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

SECTION CONCRETE CONCRETE (IF USED)

1. CONCRETE MORTAR AND RELATED MATERIALS TO CONFORM TO APPLICABLE PROVISIONS OF TITLE 24 EXCEPT AS MODIFIED HEREIN.

2. REINFORCING BARS-ASTM A615 OR ASTM A706

AMERICAN PLYWOOD ASSOCIATION TO BE COATED WITH CBC EACH SHEET SHALL BEAR THE STAMP OF:

A. APA PITTSBURGH TESTING, OR TCC

JOISTS, PLATES, STUDS-DOUGLAS FIR OR HEM FIR S4S #2 U.N.O. NOTE: MSR 1850 E1.5 MAY BE SUBSTITUTED FOR #2 GRADE IF IT MEETS THE STRUCTURAL REQUIREMENTS FOR FLOOR AND ROOF MEMBERS.

4. HEADERS, POSTS AND TIMBERS-DOUGLAS FIR S4S #1

BLOCKING - DOUG FIR FOR #2 OR #1 STD. & BET.

5. SILLS AND LUMBER & SHIM PLATES IN CONTACT WITH CONCRETE, MASONRY OR EARTH, DOUG FIR #2 PRESSURE TREATED IN ACCORDANCE WITH CBC BEAT #1 EACH PIECE SHALL BEAR AWFS STAMP, LP-22, GROUND CONTACT, D.#2 ABOVE GROUND.

E. PLYWOOD ROOF DECKING - SEE S3

F. PLYWOOD FLOOR DECKING - APA STURD-I-FLOOR 2-4-1 OR LVI-FLOOR BY PITTSBURGH TESTING, OR TCC

TONGUE AND GROOVE FLOOR SHEATHING, WITH EXTERIOR GLUE.

EXTERIOR SIDING/SHEATHING - APA TYPE 303 EXTERIOR.

AMERICAN PANEL FIBER CEMENT AS MFG. BY JAMES HARDIE BUILDING PRODUCTS NER-40S REPORT

H. MOISTURE BARRIER - KRAFT WATERPROOF BUILDING PAPER, OR 15 LB. FELT, UBC STANDARD 14-1 FOR KRAFT, 15-1 FOR FELT.

J. STUDS - DOUG FIR #2 OR HEM FIR #2 MOISTURE CONTENT NOT OVER 18%.

K. FASTENERS - ALL NAILS SHALL BE CORROSION RESISTANT PER C.B.C. 2318A.3.4 COMMON NAILS FOR EXT. SIDING & FINISH ONLY.

L. BUILDING TRIM - 2X RESAWN SELECT D.F., H.F., OR CEDAR

M. DOOR/WINDOW TRIM - 1X4 RESAWN D.F., H.F., OR CEDAR

N. FRAMING CONNECTORS SHALL BE FROM SIMPSON CATALOG LATEST ED. FIRE BOLTS SHALL CONFORM TO CBC SECTION 708.

O. ALL NAILS SHALL BE COMMON NAILS UNLESS OTHERWISE NOTED.

FOUNDATION LUMBER: ALL CUT ENDS AND HOLES IN PRESSURE TREATED LUMBER SHALL BE TREATED WITH "CUPROLIN".

3. WORKMANSHIP

FRAMING - SECURELY Nailed, Bridged and Bolted to FORM RIGID STRUCTURE. WORK OUT, FITTED AND ASSEMBLED LEVEL, PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.

C. EXTERIOR WALLS - FACTORY FABRICATED. CALLKING PROVIDED BETWEEN PERIMETER OF WALL AND STRUCTURAL MEMBERS PROVIDING WEATHER-PROOF AND WATER-TIGHT SEAL. NECESSARY GLASSER, SEALS, AND FLASHINGS PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.

D. MACHINE APPLIED NAILING:

USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE.

MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.

MOISTURE BARRIER - APPLIED TO STUDS WEATHER-BOARD FASHION, HORIZONTAL.

JOINTS LAPPED MIN 6" INCLUDING BUILDING CORNERS. SHEATHING APPLIED OVER MOISTURE BARRIER.

F. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING UNLESS TRANSPARENT TYPE.

SECTION 8B HOLLOW METAL DOORS AND FRAMES

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS AND FRAMES.

2. MATERIALS

A. DOORS - INSULATED TYPE I FULL FLUSH, MANUFACTURED BY AMELD MANUFACTURING COMPANY, 18 GA. 1 3/4" THICK PER CS242 MIN. REINFORCE FOR HARDWARE-BOTH FACES FOR CLOSER, SOUND DEADEN INTERIOR.

B. FRAMES - 16 GA COLD ROLLED 2" FACES, CS242 MIN.3 ANCHORS PER JAMB + ADJUSTABLE FLOOR ANCHOR EACH JAMB REINFORCE FOR HARDWARE. PROVIDE STRIKE BOX/PROVIDE SOUND DEADENING: 1/8" UNDERCUTTING OR INSULATING JAMB.

3. WORKMANSHIP

ALL WORK FABRICATED IN SHOP TO REQUIRED PROFILES BY FORMING AND WELDING. WITH ARSES AND EDGES STRAIGHT, SHARP FIT FABRICATED ACCURATELY WITH SQUARE CORNERS, HARLINE JOINTS AND SURFACES FREE FROM WARP, WAVE, BUCKLE OR OTHER DEFECTS AFTER FABRICATION. DOORS AND FRAMES CLEANED THOROUGHLY, ALL WELDS GROUND SMOOTH AND GIVEN PRIME COAT.

FINISH HARDWARE

SEE SHEET 1

SECTION 9E PAINTING

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDING. ALL EXPOSED SURFACES OF BUILDING AND RAMPS SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES, THRESHOLDS, AND ROOFING.

2. MATERIALS

A. FOR EXTERIOR WOOD:

PRIMER	EDWARDS	KELLY	SHERWIN	SINCLAIR
FINISH	42-9M	1240	124W20	289-N
	00-60-XX	1240-XXX	B54W2102	GE2-NXX

B. FOR INTERIOR TRIM:

PRIMER	DUNN	KELLY	SHERWIN	SINCLAIR
FINISH	EDWARDS	MOORE	WILLIAMS	ASBWI1
	43-4	1710	B50N26	15N
	10-XX	1700-XXX	B54W2102	GE2-NXX

C. FOR METAL:

PRIMER	DUNN	KELLY	SHERWIN	SINCLAIR
FINISH	EDWARDS	MOORE	WILLIAMS	ASBWI1
	43-4	1710	B50N26	15N
	10-XX	1700-XXX	B54W2102	GE2-NXX

3. WORKMANSHIP

ALL EXPOSED SURFACES SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES AND THRESHOLDS. MATERIAL SHALL BE OF THE GRADE SPECIFIED OR EQUAL.

A. EXTERIOR - WOOD SIDING, TRIM AND SKIRTING FLAT OR SEMI-GLOSS LATEX - APPLY ONE COAT OF PRIME AND AT LEAST ONE BACK COAT. PRIME COAT SHALL BE BRUSHED ON OR SPRAYED AND APPLIED TO ALL GROOVES IN THE SIDING. IF NECESSARY, IN THE OPINION OF THE INSPECTOR, AN EXTRA COAT SHALL BE BACK TO ALL GROOVES SO THAT THE FINISH COAT WILL HAVE A UNIFORM APPEARANCE. ALLOW PRIME COAT TO DRY ACCORDING TO MANUFACTURER'S RECOMMENDATION. PRIME AND FINISH COATS SHALL BE COMPATIBLE AND MANUFACTURED BY THE SAME COMPANY.

B. INTERIOR TRIM - TRIM NOT PRECOATED SHALL BE PAINTED WITH TWO COATS OF SEMI-GLOSS LATEX OVER PRIMER.

C. INTERIOR HARDWOOD CABINETS - TWO COATS LUSTRE POLYURETHANE FINISH. APPLY FIRST COAT THINNED WITH QUARTZ MINERAL SPIRITS PER GALLON. APPLY SECOND COAT AS RECOMMENDED BY MANUFACTURER.

D. METAL - ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALLOY FINISH COAT OVER ZINC CHROMATE OR EQUAL RUST INHIBITING PRIMER.

E. RAMP - ONE COAT OF FERROX NON-SLIP SURFACING AS MANUFACTURED BY AMERICAN ABRASIVE METALS OR COMPARABLE. (0.7 MIN. CO.F.) ALL PAINTS OF THE TYPE INDICATED SHALL BE LISTED ON THE STATE OF CALIFORNIA QUALIFIED PRODUCTS LIST FOR MAINTENANCE. SUBMIT 8010-910-98A DATED JULY 1989, OR EQUAL.

F. PAINTS ONE SET COLOR SAMPLES TO ARCHITECT FOR EACH PRODUCT TO ASSIST IN SELECTION.

SECTION 13F SITE ASSEMBLY

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE. THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT UNLESS SPECIFICALLY CALLED FOR IN THE CONTRACT, STEPS, RAMPS, OR HANDRAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

2. ASSEMBLY OF ELEMENTS

IN A LOCATION ON THE SITE AS DETERMINED BY THE SCHOOL DISTRICT, (APPROVED BY DSA) THE CONTRACTOR SHALL PLACE WOOD LEVELING STRIPS OR OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWINGS.

3. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING EACH OTHER.

CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTION ON THE DRAWINGS. FLASHINGS, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

NOTE:

WALL FINISH MATERIAL

FLAME SPREAD MAX = 200

SMOKE DENSITY MAX = 450

BUILDING INSULATION

FLAME SPREAD MAX = 25

SMOKE DENSITY MAX = 450

PIPE INSULATION

FLAME SPREAD MAX = 25

SMOKE DENSITY MAX = 450

DUCT INSULATION

FLAME SPREAD MAX = 25

SMOKE DENSITY MAX = 50

SECTION 15A AIR CONDITIONING

1. SCOPE OF WORK (SEE SHEET M-1 FOR HVAC SPEC. AND NOTES)

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL THE AIR CONDITIONING SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS, INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTAT, GRILLS AND POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRUCT OPERATOR'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C SYSTEM.

2. EQUIPMENT

SEE NOTE ON FLOOR PLAN FOR SIZE AND TYPE.

3. WORKMANSHIP

UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

SECTION 16A ELECTRICAL

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES FOR ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES, IN OPERATING CONDITION READY FOR USE. THE WORK INCLUDES: LIGHT AND POWER SYSTEMS, LIGHTING FIXTURES COMPLETE WITH LAMPS, CONNECTIONS AND DISCONNECTS TO A/C EQUIPMENT.

2. MATERIALS

A. ALL NEW COMPLYING WITH REQUIREMENTS OF CALIFORNIA ELECTRICAL CODE AND NATIONAL FIRE PROTECTION ASSOCIATION.

B. ELECTRIC METALLIC TUBING - COUPLING AND FLEX CONDUIT GALVANIZED OR SHEARZOD, EXTERIOR FLEX - GALV. STEEL W/ FACTORY APPLIED P.V.C. JACKET.

C. PANELBOARDS - FLUSH MOUNTED.

D. CONDUCTORS - COPPER/INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6, TYPE THW FOR LARGER SIZES. MINIMUM SIZE - #14.

E. RECEPTACLES - AS NOTED, +18" A.F.F. MIN.

F. CLOCK RECEPTACLES - AS NOTED, +18" A.F.F. MAX.

G. SWITCHES - AS NOTED, +48" A.F.F. MAX.

H. LIGHTING FIXTURES - AS NOTED ON THE DRAWINGS.

3. WORKMANSHIP

MATERIALS AND EQUIPMENT INSTALLED IN A SECURE MANNER WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS. PANELBOARD CARDS FILLED OUT, CONDUIT AND CABLE INSTALLED IN CONDUIT AND CLEARED SPACES. THE CONDUIT SHALL BE FLASHED AND SEALED TO A WATER TIGHT CONDITION. BUILDING CONDUIT/WIRING FROM FACE OF BLDG TO SITE TERMINATION BY SITE CONTRACTOR (N.I.C.) (FLEXIBLE CONDUIT - S-BEND SEALANTE).

INSPECTION

INSPECTION OF PREFABRICATED BUILDINGS IS DIVIDED INTO TWO SEPARATE FUNCTIONS.

- IN-PLANT INSPECTION.
- ON-SITE INSPECTION.

THE CONTRACTOR SHALL ALLOW UP TO SEVEN (7) DAYS FROM THE DATE OF PLAN APPROVAL TO OBTAIN AN IN-PLANT INSPECTION APPROVED BY D.S.A.

IN-PLANT INSPECTION AND MATERIAL TESTING SHALL BE ACCOMPLISHED UNDER THE SUPERVISION OF THE DISTRICT ARCHITECT. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ARCHITECT, DSA, AND THE DESIGNATED INSPECTOR/INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. THE MANUFACTURER SHALL PROVIDE THE INSPECTOR WITH FULL ACCESS TO ALL PLANT OPERATIONS INVOLVING WORK UNDER THIS CONTRACT AND SHALL ADVISE THE INSPECTOR IN ADVANCE OF THE TIME AND PLACE WHEN OPERATIONS THAT THE INSPECTOR WANTS TO OBSERVE TAKE PLACE. BEFORE THE BUILDING(S) ARE REMOVED FROM THE PLANT FOR DELIVERY TO THE STORAGE FACILITY OR FROM THE STORAGE FACILITY TO THE SITE THE INSPECTOR SHALL DETERMINE THAT THEY ARE ACCEPTABLE AND ISSUE A WRITTEN RELEASE WHICH SHALL BE IN THE FORM OF A VERIFIED REPORT (FORM SSS-B). A COPY OF THE INSPECTOR'S VERIFIED REPORT SHALL ACCOMPANY EACH BUILDING TO STORAGE OR TO THE SITE. THE INSPECTOR SHALL PUT ONE COPY IN EACH BUILDING.

COORDINATION OF WORK

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY ARRANGEMENTS WITH THE SCHOOL DISTRICT AUTHORIZED REPRESENTATIVE FOR ACCESS TO GROUNDS AND REMOVAL OF EQUIPMENT, IF NECESSARY.

THIS CONTACT SHALL BE MADE AT LEAST 48 HOURS PRIOR TO DELIVERY OF AN MODULE.

ON-SITE INSPECTION SHALL BE DONE BY THE SITE INSPECTOR. ALL WORK WHICH THE MANUFACTURER OR HIS SUBCONTRACTORS PERFORM AT THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE SITE INSPECTOR. THE MANUFACTURER WILL FURNISH THE SITE INSPECTOR WITH SUCH INFORMATION AS MAY BE NECESSARY TO KEEP HIM FULLY INFORMED AS TO PROGRESS OF WORK AND DATES WHEN SITE WORK WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL VERIFY THAT THE DISTRICT'S SITE IS READY TO RECEIVE THE CLASSROOM(S) PRIOR TO THE DELIVERY OF ANY CLASSROOM(S) BY VISITING EACH SITE (THIS MAY BE DONE BY THE INSPECTOR).

MATERIALS AND WORKMANSHIP

ALL CONTRACTORS SHALL CERTIFY THAT NO ASBESTOS-CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.

ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS UNLESS OTHERWISE SPECIFIED, SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED. THE CONTRACTOR SHALL, IF REQUESTED, FURNISH EVIDENCE SATISFACTORY TO THE ARCHITECT THAT SUCH IS THE CASE.

CONTRACTOR'S CREWS ASSIGNED TO ANY WORK PERFORMED UNDER THIS CONTRACT SHALL INCLUDE ONE COMPETENT AND FULLY EXPERIENCED PERSON DESIGNATED AS THE RESPONSIBLE PERSON IN CHARGE. SUCH PERSON MUST BE IDENTIFIED BY NAME TO THE DISTRICT IN ADVANCE OF ANY WORK. UPON REQUEST, THE CONTRACTOR SHALL PROMPTLY FURNISH TO THE DISTRICT INFORMATION RELATING TO THIS EMPLOYEE'S EXPERIENCE.

WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT. A QUALITY CONTROL SUPERVISOR, DESIGNATED BY THE MANUFACTURER, SHALL REVIEW ALL WORK IN PROGRESS AND SHALL REVIEW THE FINISHED BUILDING PRIOR TO FINAL INSPECTION TO ASSURE IT IS COMPLETE AND CORRECT. THE QUALITY CONTROL SUPERVISOR SHALL HAVE THE AUTHORITY TO HAVE MATERIAL REPLACED AND WORK REDONE IN ORDER TO CORRECT FAULTY MATERIALS OR WORKMANSHIP.

GENERAL DESIGN REQUIREMENTS:

TWO (2) APPROXIMATELY 12' X 40' MODULES DESIGNED SO THAT TWO MODULES MAY BE JOINED TOGETHER TO FORM A COMPLETE STRUCTURE TO MAINTAIN A POSITIVE ALIGNMENT OF FLOORS, WALLS, AND ROOF AND TO PERMIT SIMPLE NON-DESTRUCTIVE DETACHMENT FOR RELOCATION.

EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH AN IMPRINTED (STAMPED NOT ENGRAVED) METAL IDENTIFICATION TAG 3"x1" - 1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:

- MANUFACTURER'S BUILDING NUMBER.
- DESIGN ROOF LIVE LOAD
- DESIGN FLOOR LIVE LOAD
- D.S.A. APPLICATION NUMBER.
- TAGS PER MODULE ONE ON EXTERIOR AND ONE ON MODULE BEAM AT FRONT OF BUILDING ABOVE CEILING.

EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION AND RELOCATIONS IS ACCEPTABLE) WHEN MODULES ARE ASSEMBLED JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER METHOD TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF.

EACH 12' X 40' MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION IN ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE AGENCY ARCHITECT OR STRUCTURAL ENGINEER, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.

FINISH AND BASE MATERIALS AT EACH MODULE SHALL TERMINATE AT INTERIOR MODULE JOINTS IN A MANNER TO JOIN FLUSH AND TOGETHER SAME MATERIAL IN ADJACENT MODULE SO THE MODULE MAY BE RELOCATED WITH MINIMUM CUTTING AND PATCHING.

DIMENSIONS

THE BUILDINGS SHALL OCCUPY AN AREA OF 960 SQUARE FEET WITH A TOLERANCE OF MINUS 5 SQUARE FEET. THE BUILDINGS SHALL BE 24' X 40'. ALL BUILDINGS SHALL MEET THE SQUARE FOOTAGE REQUIREMENT. LINEAR DIMENSIONS SHALL BE VERTICAL TRIM FINISH LINE TO VERTICAL TRIM FINISH LINE.

FASCIA AND REQUIRED OVERHANGS ARE NOT INCLUDED IN THE CALCULATION OF THE SQUARE FOOTAGE THE BUILDING OCCUPIES. THE ENTRANCE WALL SHALL HAVE A 5' MINIMUM ROOF OVERHANG. THE REAR WALL SHALL HAVE A MINIMUM 2' OVERHANG. FULL LENGTH GUTTERS AND DOWNSPOUTS SHALL BE FURNISHED ON THE SIDES OF EACH OVERHANG AND EACH ROOF EDGE WHERE FINISHING OCCURS. THE INTERIOR HEIGHT, FLOOR TO CEILING SHALL BE 8'-6" U.O.N. THE MODULE SHALL BE CLEAR SPAN TYPE EXCEPT AS PROVIDED FOR IN THE BID SPECIFICATIONS NOTHING SHALL PROTRUDE MORE THAN 1" BELOW THE CEILING LEVEL.

ITEMS NOTED AS N.I.C. (NOT IN CONTRACT) OR "BY OTHERS" IS THE RESPONSIBILITY OF THE SCHOOL DISTRICT DEPENDING ON THE AGREEMENT WITH DISTRICT.

IN THE EVENT OF CONFLICT BETWEEN THESE SPECIFICATIONS AND THE DISTRICT BID SPECIFICATIONS, THE DISTRICT SPECIFICATIONS SHALL PREVAIL.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPL 01-117316

ACS DATE: 11/10/88

FILE NO. PC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

PC 02-104915

AC: 02
FLS: 02
SS: 04
DATE: JUL 22 2000

DATE: 04-28-03

SCALE: NONE

DRAWN BY: M.H.

CHECKED BY:

CHECKED BY:

SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
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PROJECT No.

SHEET No.

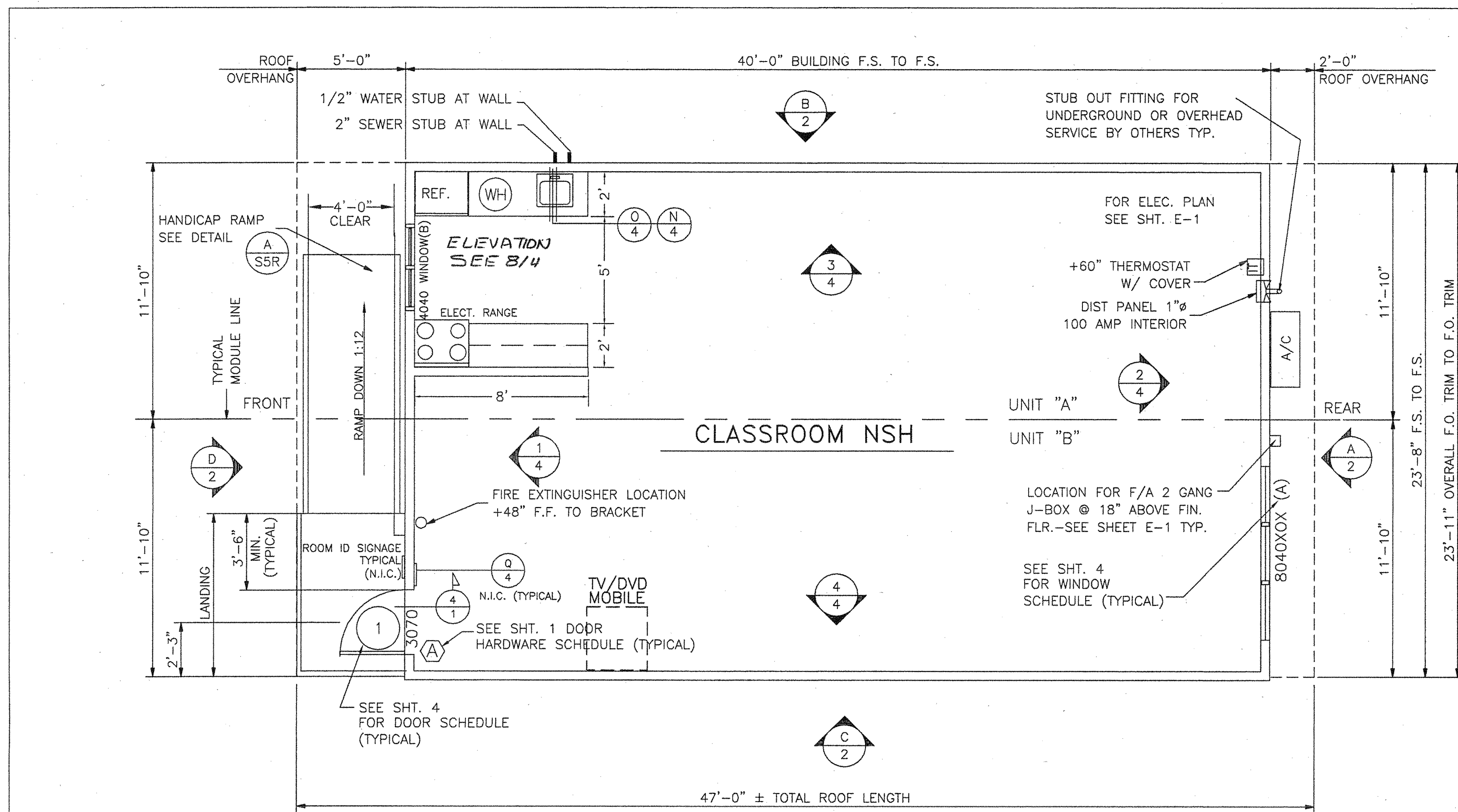
N-1



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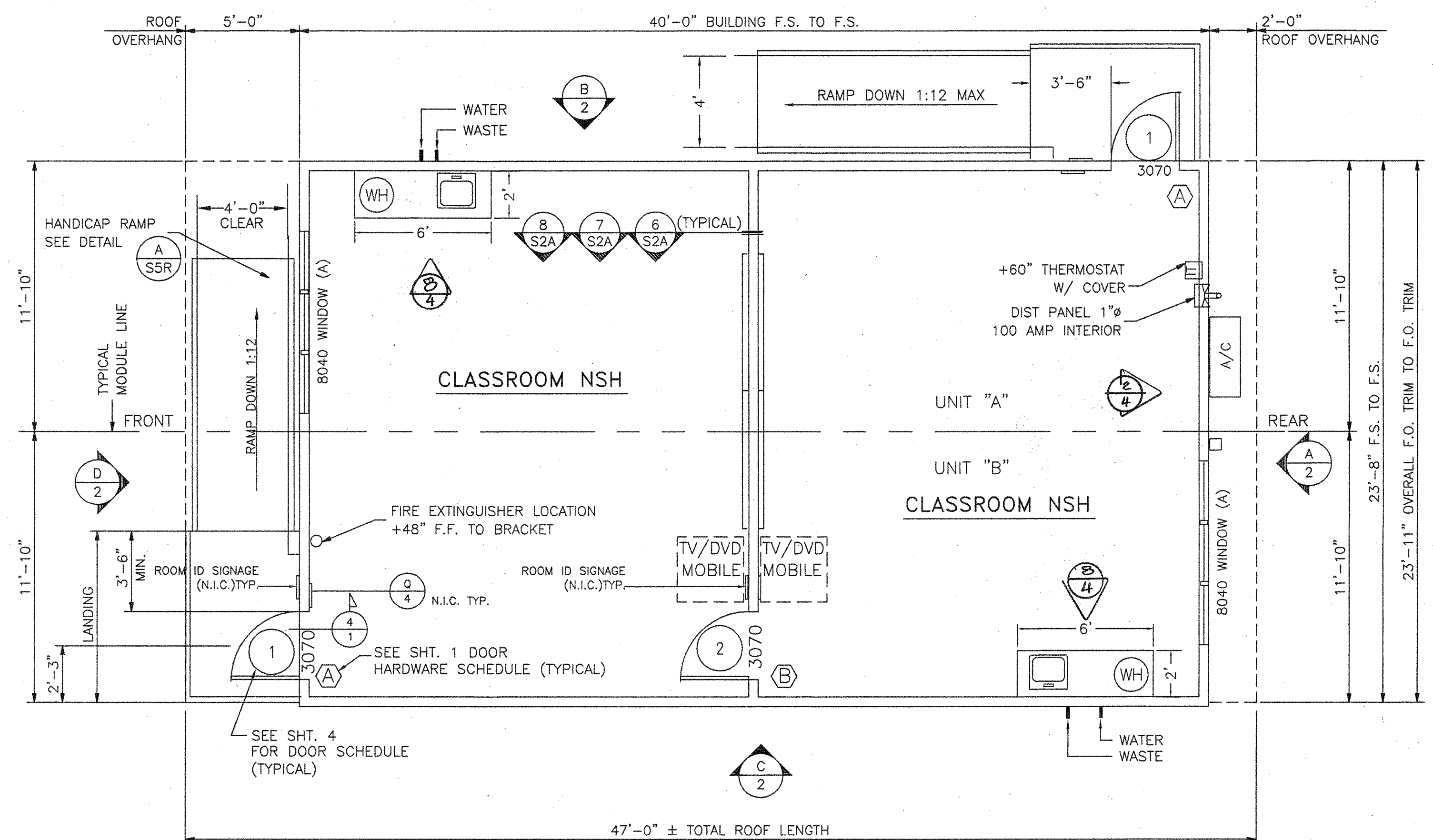
GENERAL NOTES AND SPECIFICATIONS

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CHECKED BY:	
CHECKED BY:	
SERIAL NO.	



FLOOR PLAN A5

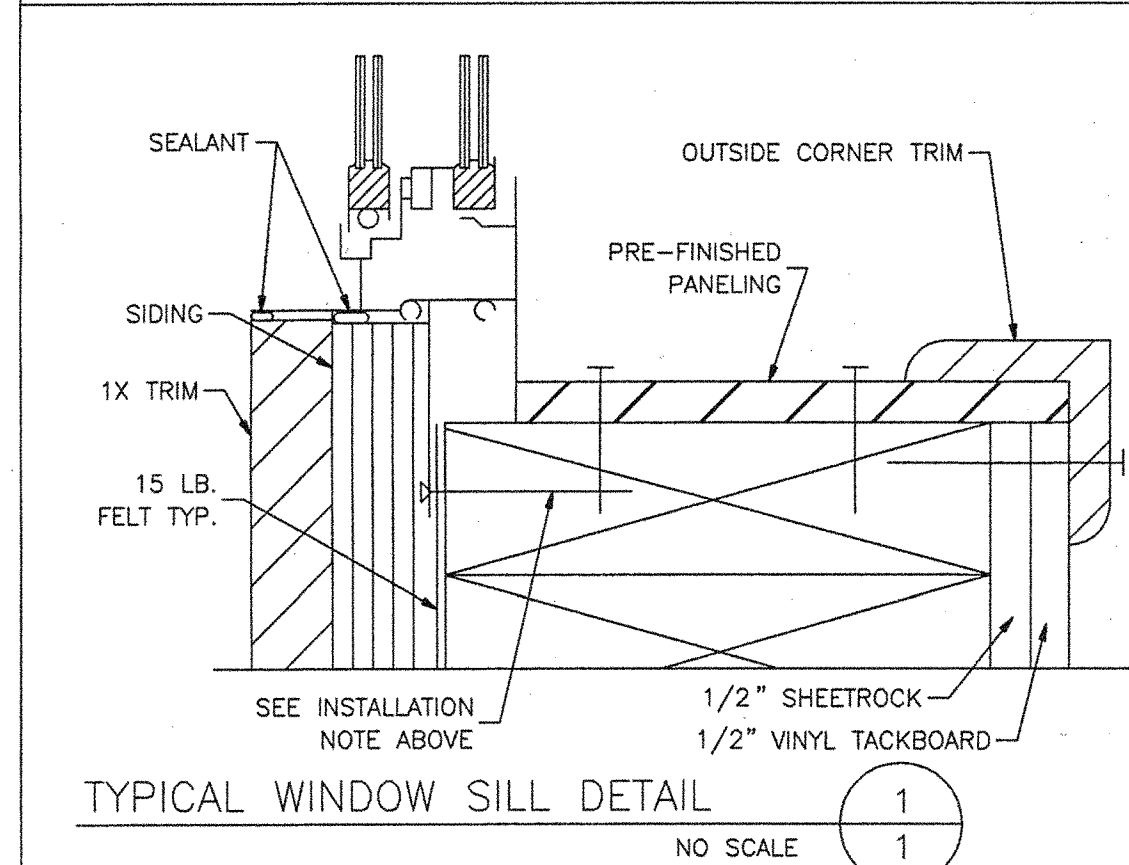
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 # 05-100-744
 # 05-100-749
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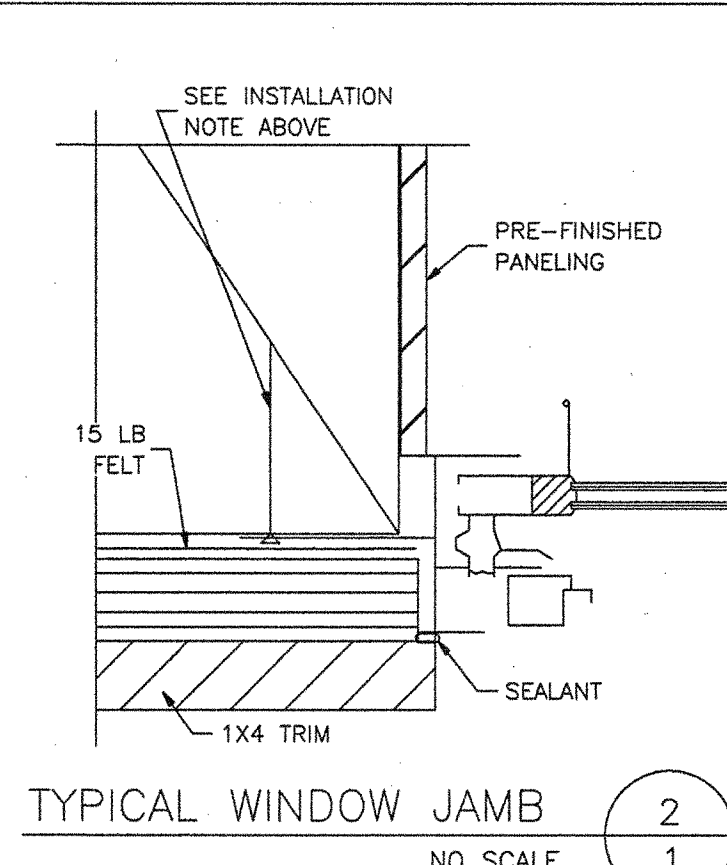
FLOOR PLAN A5.1

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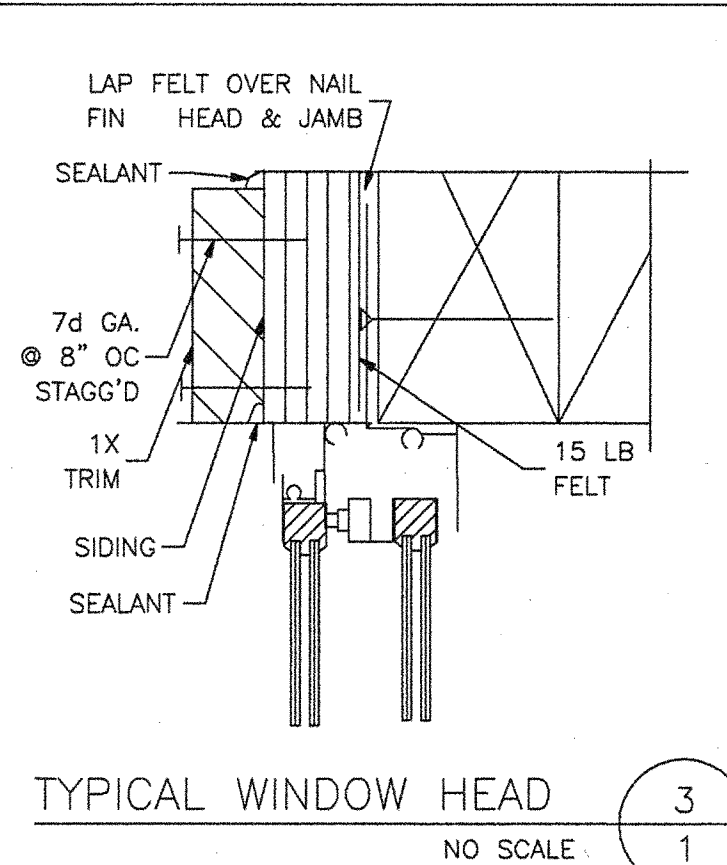
TYPICAL EXTERIOR WINDOW INSTALLATION NOTE:
 SEE MANUF. SPECS FOR INSTALLATION
 USE .131" X 2 1/2" @ 16" O.C. VERTICALS
 USE .131" X 2 1/2" @ 24" O.C. HORIZONTALS



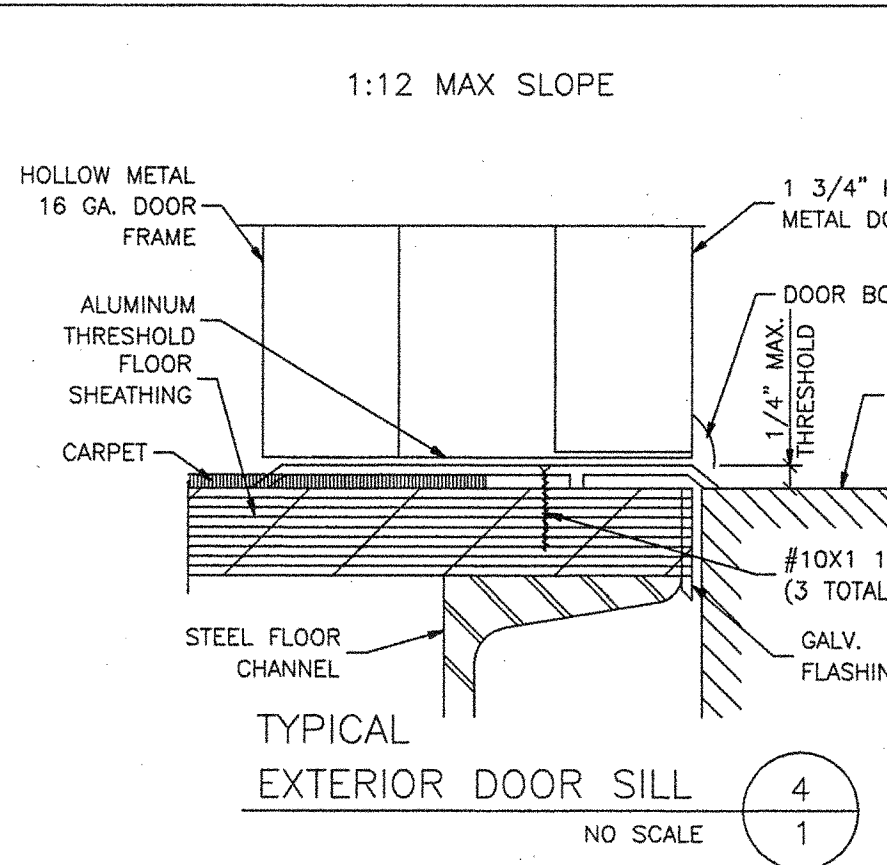
TYPICAL WINDOW SILL DETAIL
 NO SCALE 1



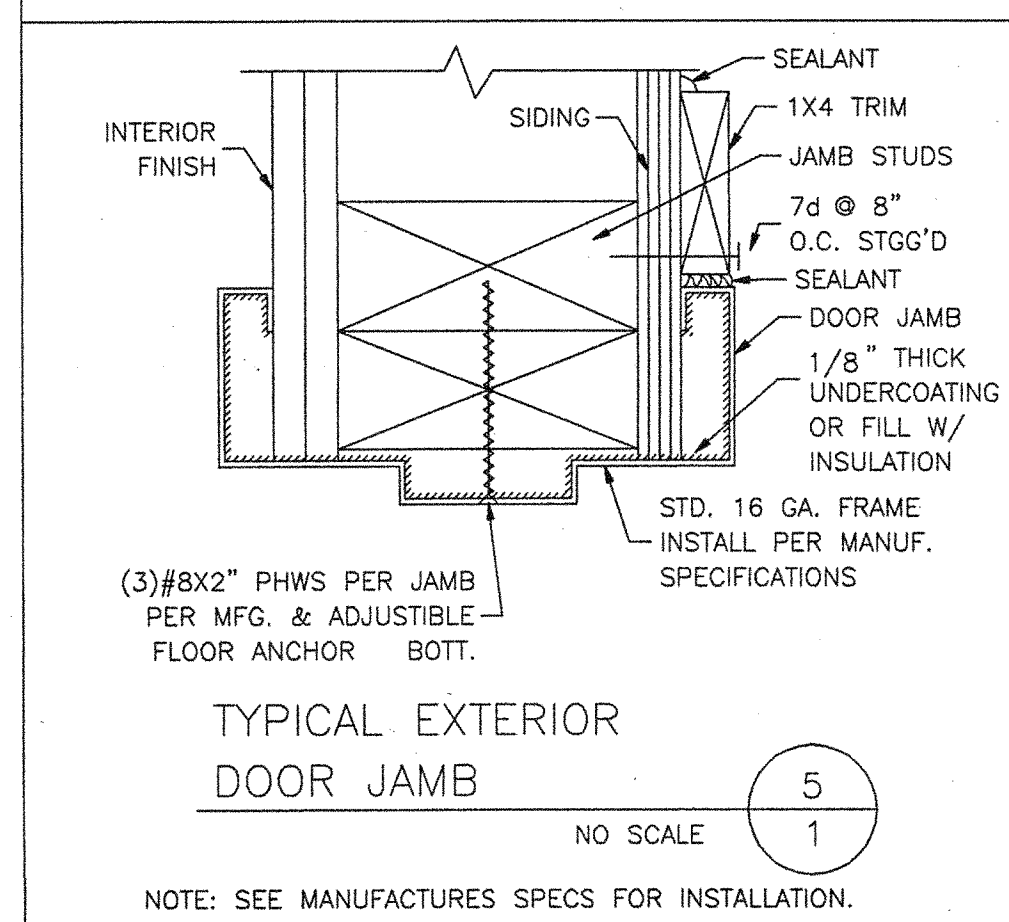
TYPICAL WINDOW JAMB
 NO SCALE 1



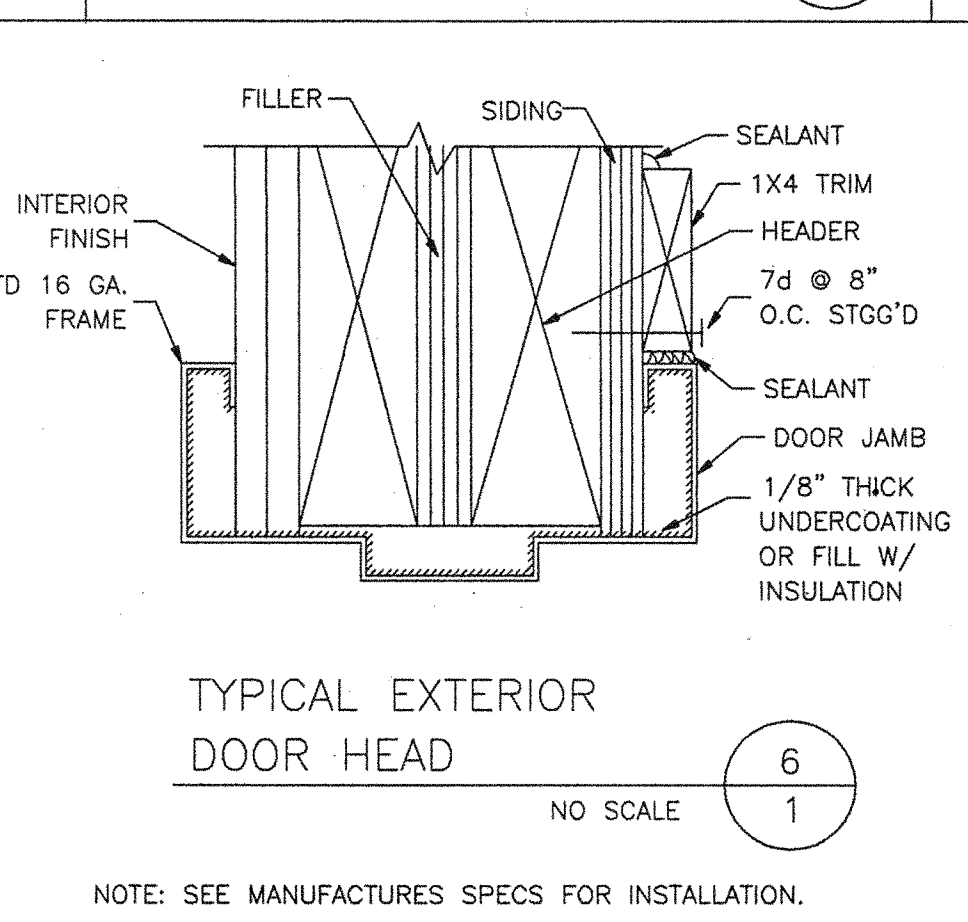
TYPICAL WINDOW HEAD
 NO SCALE 1



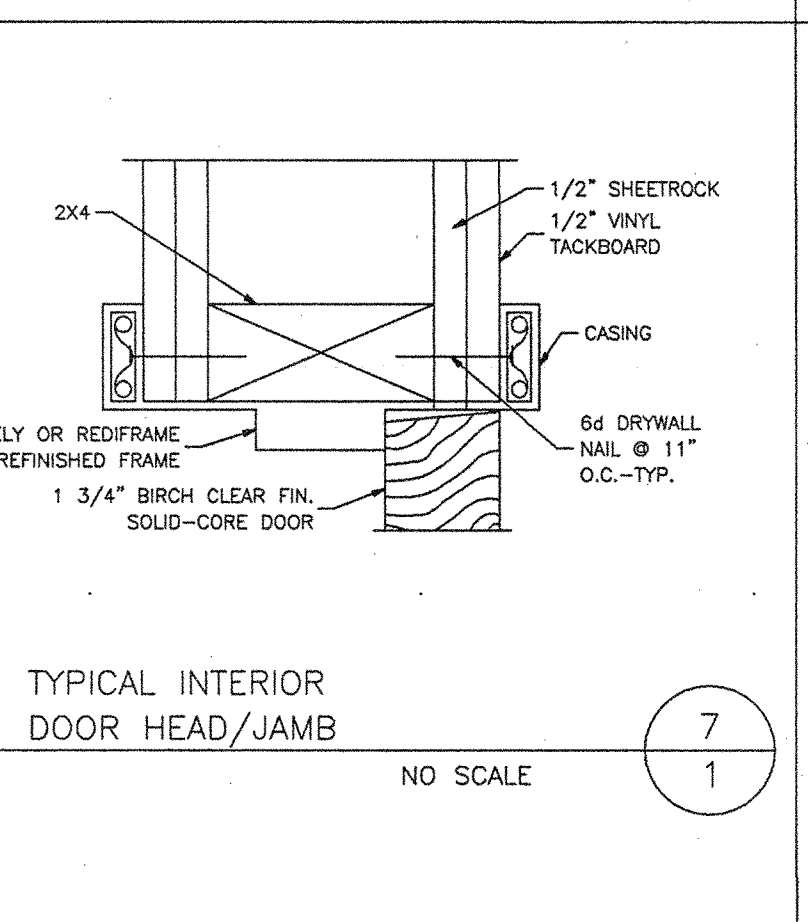
TYPICAL EXTERIOR DOOR SILL
 NO SCALE 1



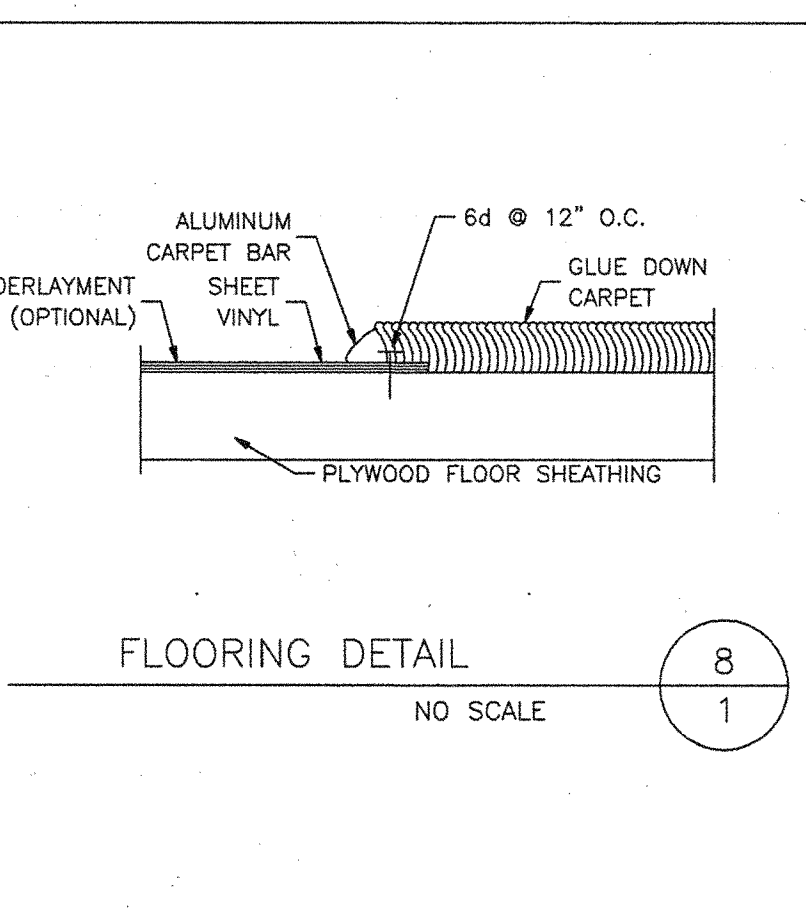
TYPICAL EXTERIOR DOOR JAMB
 NO SCALE 1



TYPICAL EXTERIOR DOOR HEAD
 NO SCALE 1



TYPICAL INTERIOR DOOR HEAD/JAMB
 NO SCALE 1



FLOORING DETAIL
 NO SCALE 1

NOTES

- Floor: Carpets - Units shall be carpeted as indicated on floor plan with direct glue down type per State of California Specification 7220-XXX-01, Group 1, Type A, Class 26. Color will be selected by District after award of bid. The carpet density shall be 4600 minimum. File yarn shall be bonded nylon. No cross seams shall be allowed.
 - Base: Resilient Cove Base - Best quality, moulded rubber, 1/8" thick, 4" high, moulded top set. Provide preformed base for square external corners and preformed end stops where base does not abut. Solid color as manufactured by Johnsonite Co., Flexco, or equal. Apply cove to complete perimeter of classroom.
 - Interior walls shall be vinyl covered lockboard U.N.O. applied in one continuous length from floor to ceiling. The lockboard shall be industrial insulation board manufactured specifically as a substitute for vinyl covered wall panels. The board shall be asphalt free, shall have an iron-on coating and shall have a minimum density of 18 lbs. per sq. ft. The vinyl coating shall be made of virgin vinyl condensed base color, weighing a minimum of 8 oz. per square yard. The vinyl coating shall be mechanically laminated, with the long edges wrapped, to the lockboard. Lockboard shall be applied over 1/2" sheetrock or 3/8" plywood sheathing. The vinyl wall covered panel shall have a Class III flame spread rating. The panel shall be approved for classroom use by the California State Fire Marshal. Reference brand: Vinyl covered lockboard as manufactured by Chatfield-Clarke or comparable. Care shall be taken in mounting the lockboard so that the texture of oil panels will have the same orientation and color match.
 - Ceiling: Suspend T-Bar System, see sheet 3 for details etc. Materials and installation per CBC 2501.5 and IR #M-3 inclusive as applicable to classrooms.
- DOORS & WINDOWS
- Exterior Doors: Metal Doors - 3'-0"x7'-0" hollow metal door construction of 1 sheet of 18 ga. steel assembled per CS242 min and reinforced. (Reinforce both faces for closure) provide flush top on doors. Hardware reinforcement shall be 10 ga. min. for hinges, door frame shall be 16 ga. pressed steel frame ASTM A36 & CS242. Hardware reinforcement shall be 10 ga. plate. Frames shall be designed with integral stop and trim. Provide (3) anchors per jamb.
- Interior Doors: 3'-0"x7'-0" Birch clear finish solid core door.
- Exterior Windows: Provide anodized aluminum frame 5/8" minimum dual pane window units, as shown on floor plans. The 5/8" dimension is the minimum thickness for the dual glazed window panel consisting of two lights of glass and the air space. Glazing material shall be:
- Exterior Lite - 3/16" minimum tempered glass or laminated as - 1 glass of solar gray glaze reducing type with a light transmission factor of 40% maximum.
- Interior Lite - 1/8" minimum clear tempered.
- Minimum air space shall be 1/4".
- Space - Bent or sealed corner aluminum with desiccant Sealer - Butyl primary seal and polysulfide of silicone secondary seal.
- Certification - All glazing to be certified in accordance with ASTM E-773, E-774.
- Header height shall be the same as the door. All operable sash shall have aluminum screens. Windows shall not be mounted to the exterior gypwall surface. All windows shall meet the AAMA GS101-88 voluntary spec. for aluminum frame windows and sliding glass (ANSI), commercial grade.

DOOR HARDWARE SCHEDULE

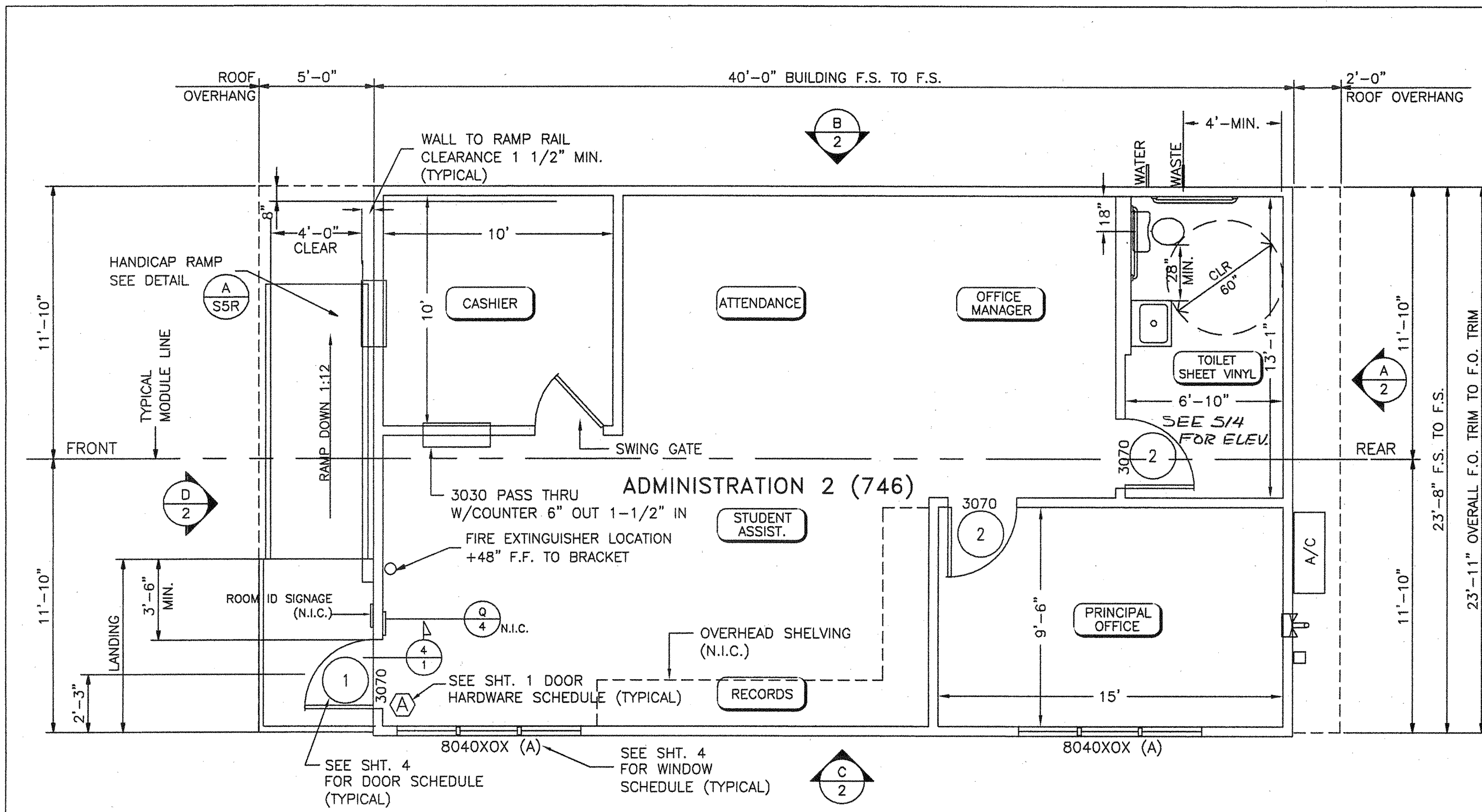
(A)	EXTERIOR DOOR LOCKSET W/ INTERIOR BRIDGE
(B)	SCHLAGE EXPOSD
(C)	INTERIOR PASSAGE LOCK SCHLAGE ALTO W/ SATURN LEVER
(D)	INTERIOR PRIVACY LATCH SCHLAGE A405 W/ SATURN LEVER

Exterior Door: All Hinges: Heger 4-1/2" x 1-1/2" bolts BR224 UD224-1/2" pair each door with set screw in barrel and ball bearing design.

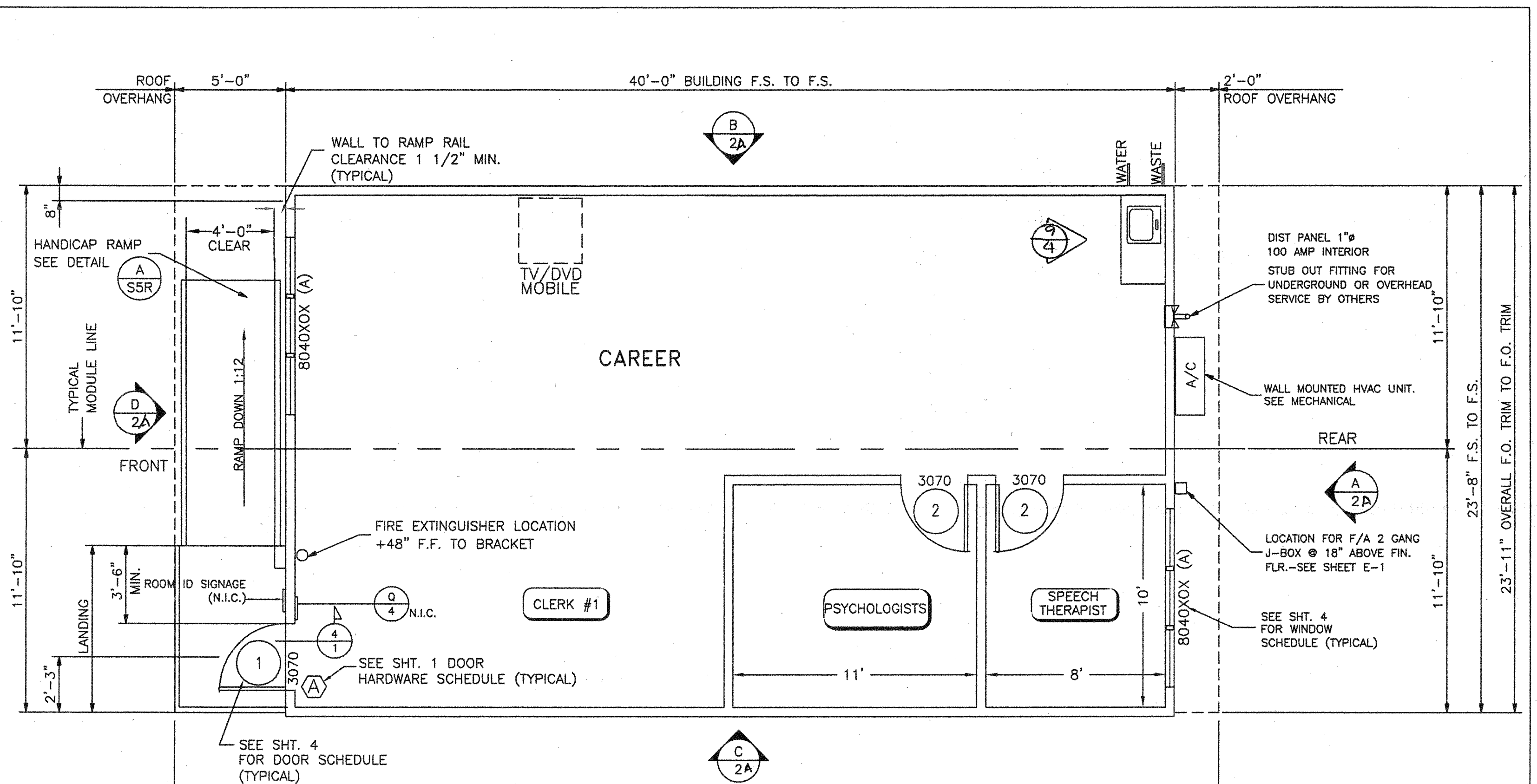
Doors: Heger B200A or B200B series, LCN 1440

Doors or equal (5 lbs. max. pressure)

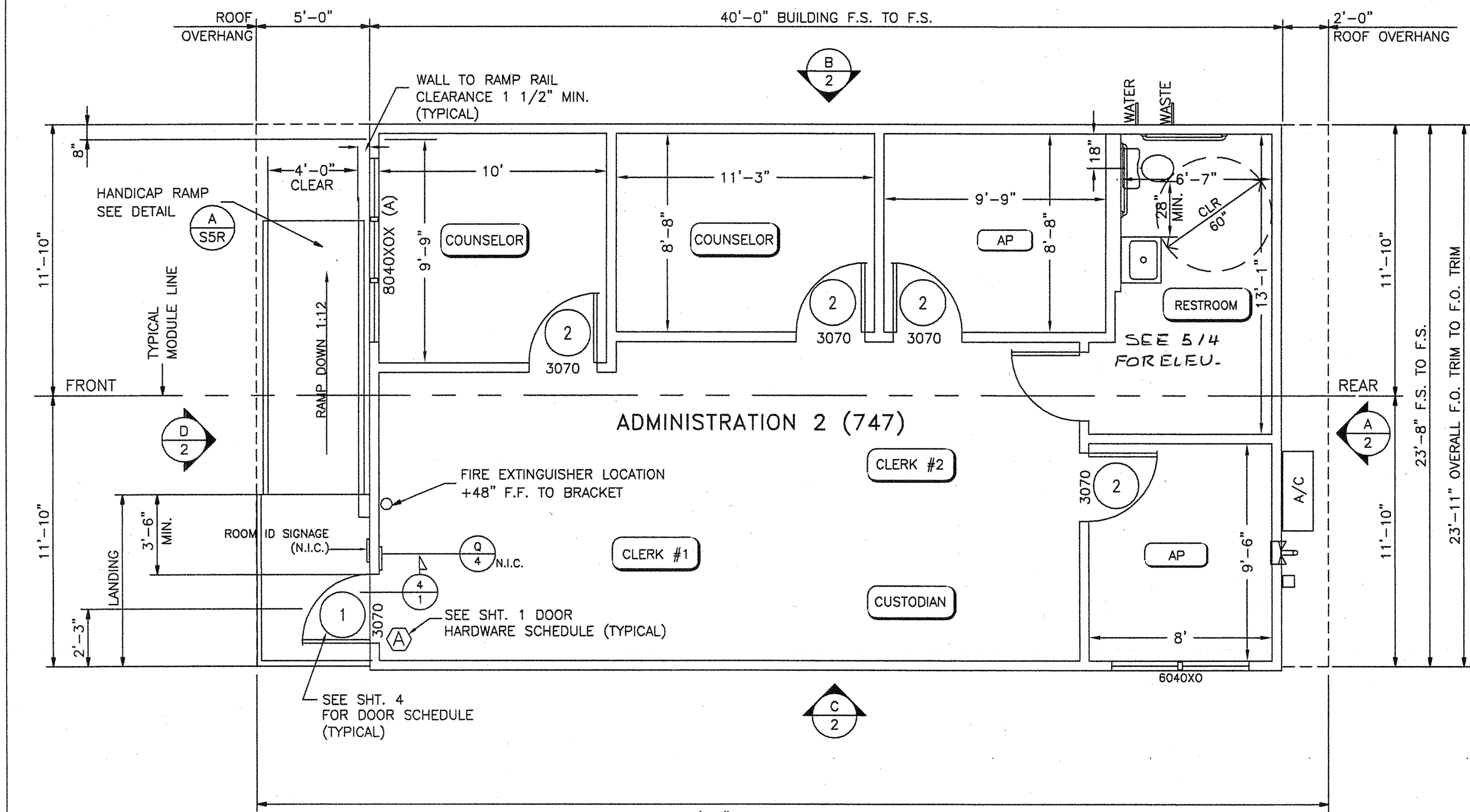
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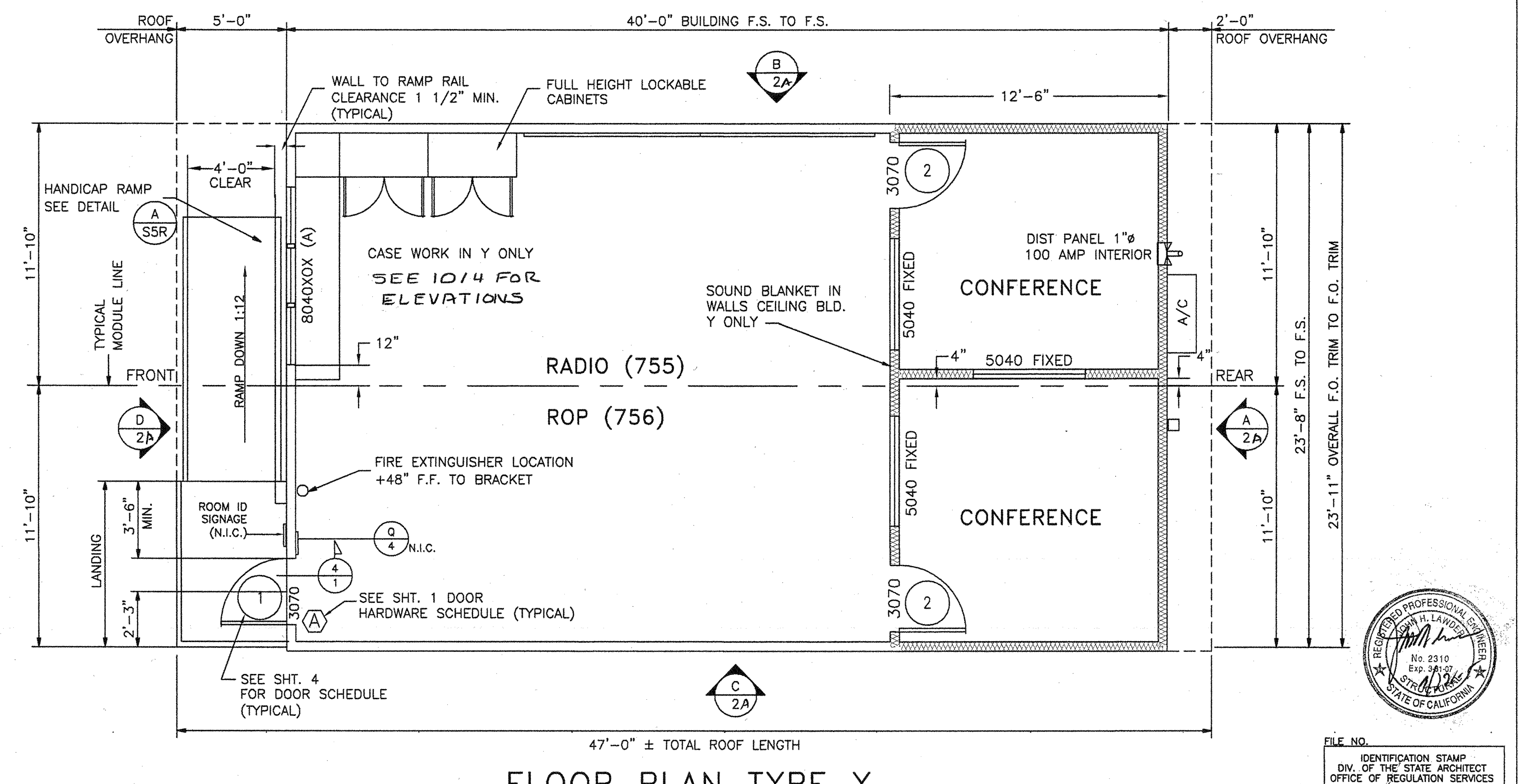
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 70# FLOOR LOAD



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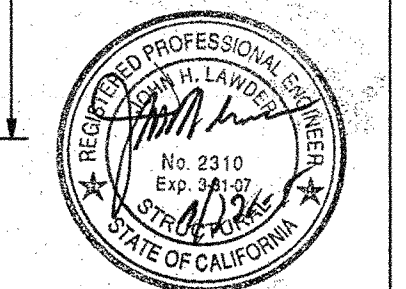


FLOOR PLAN TYPE C
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 70# FLOOR LOAD



FLOOR PLAN TYPE Y
 SERIAL # 05-100-755 SCALE: 1/4"=1'-0"

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 APPL 01-117316
 ACS FLS SS D.M.
 DATE 1/10/18



FILE NO.
 IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 02/07/18
 ACS FLS SS D.M.
 DATE 4/28/05

24 X 40
 RELOCATABLE
 CLASSROOMS



CUSTOMER:
 MOBILE MODULAR MANAGEMENT CORP.

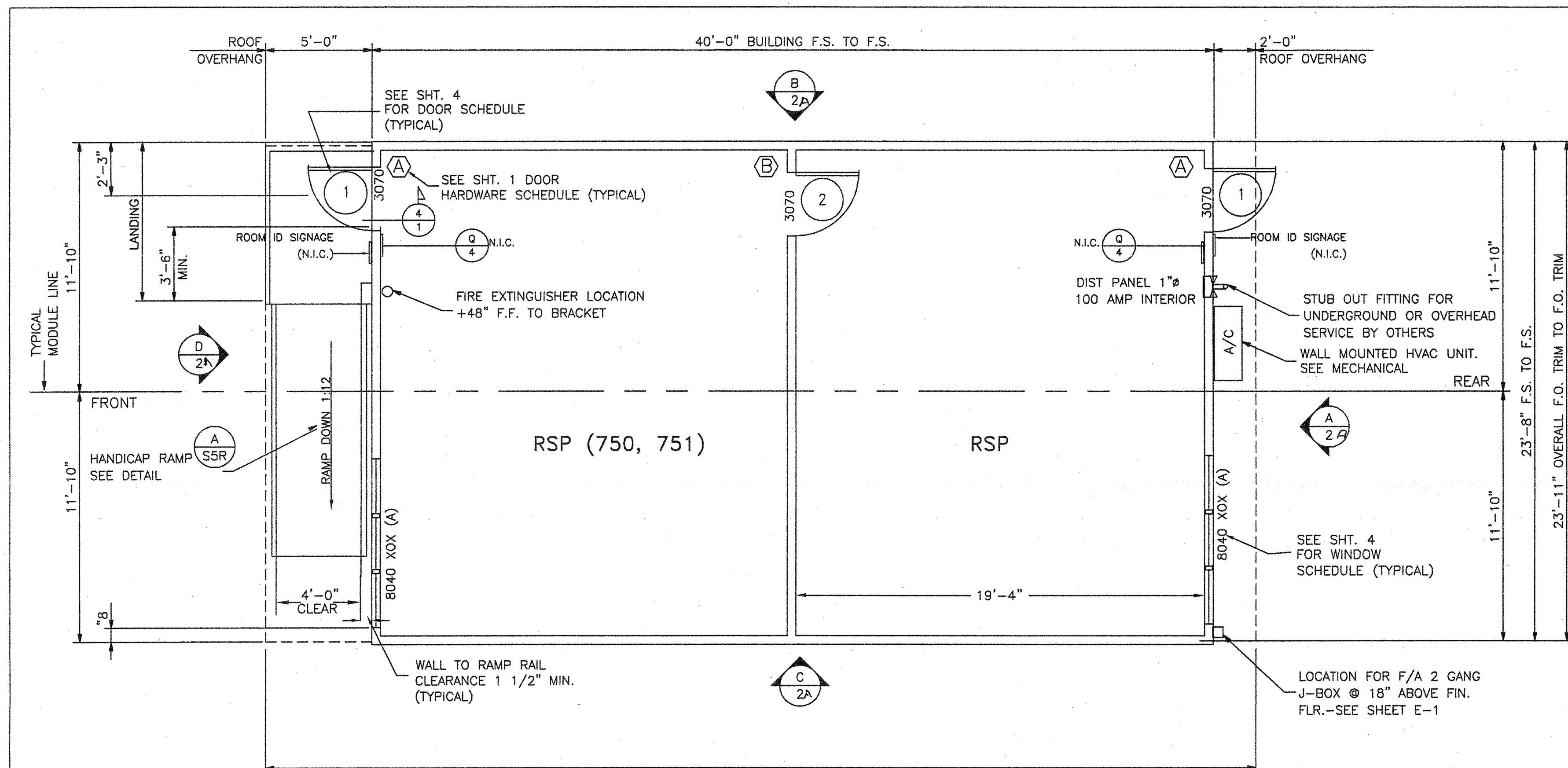
FLOOR PLAN & NOTES

DATE: 04/20/05
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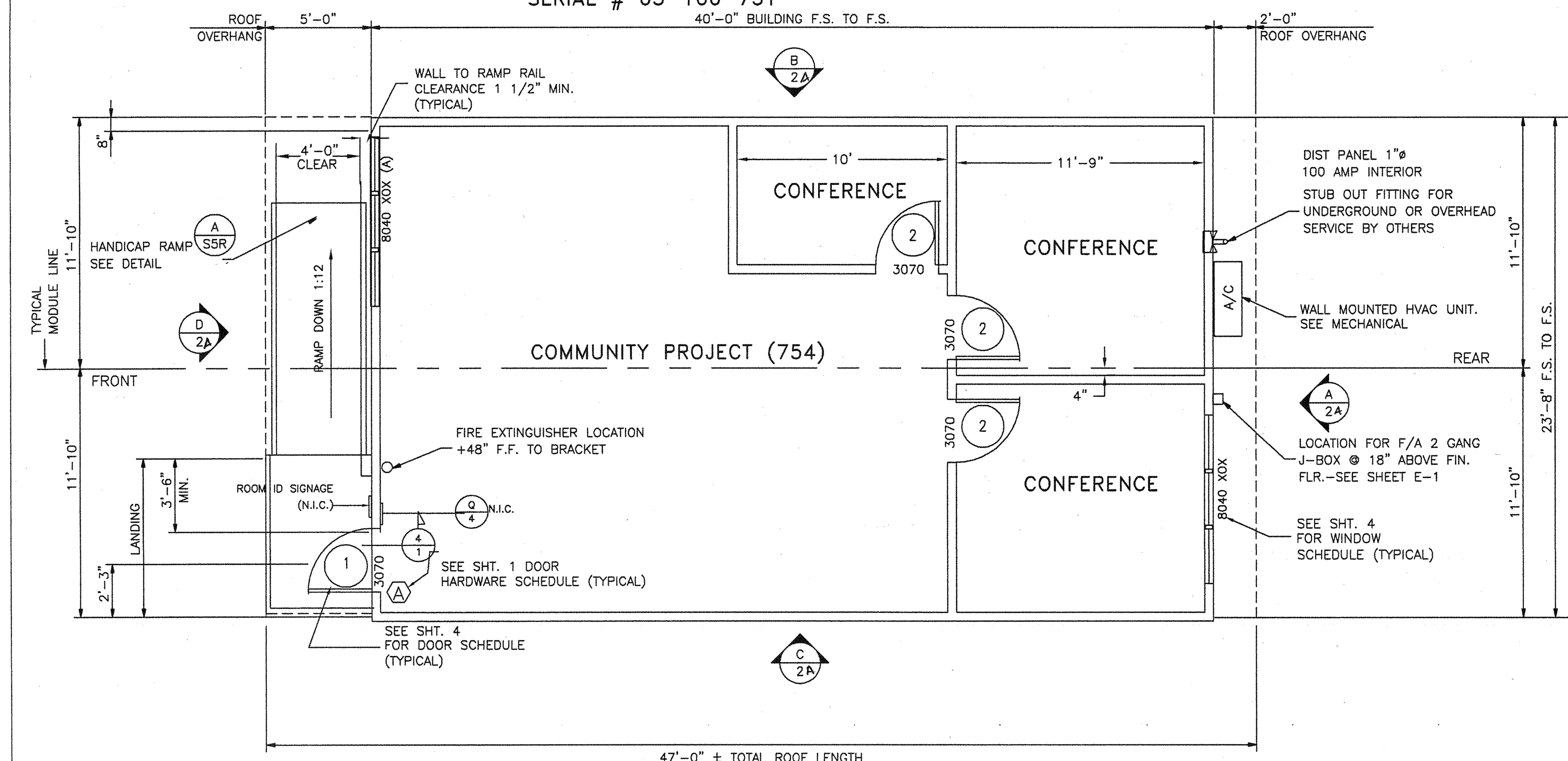
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PROJECT No.
 SHEET No.
 1A

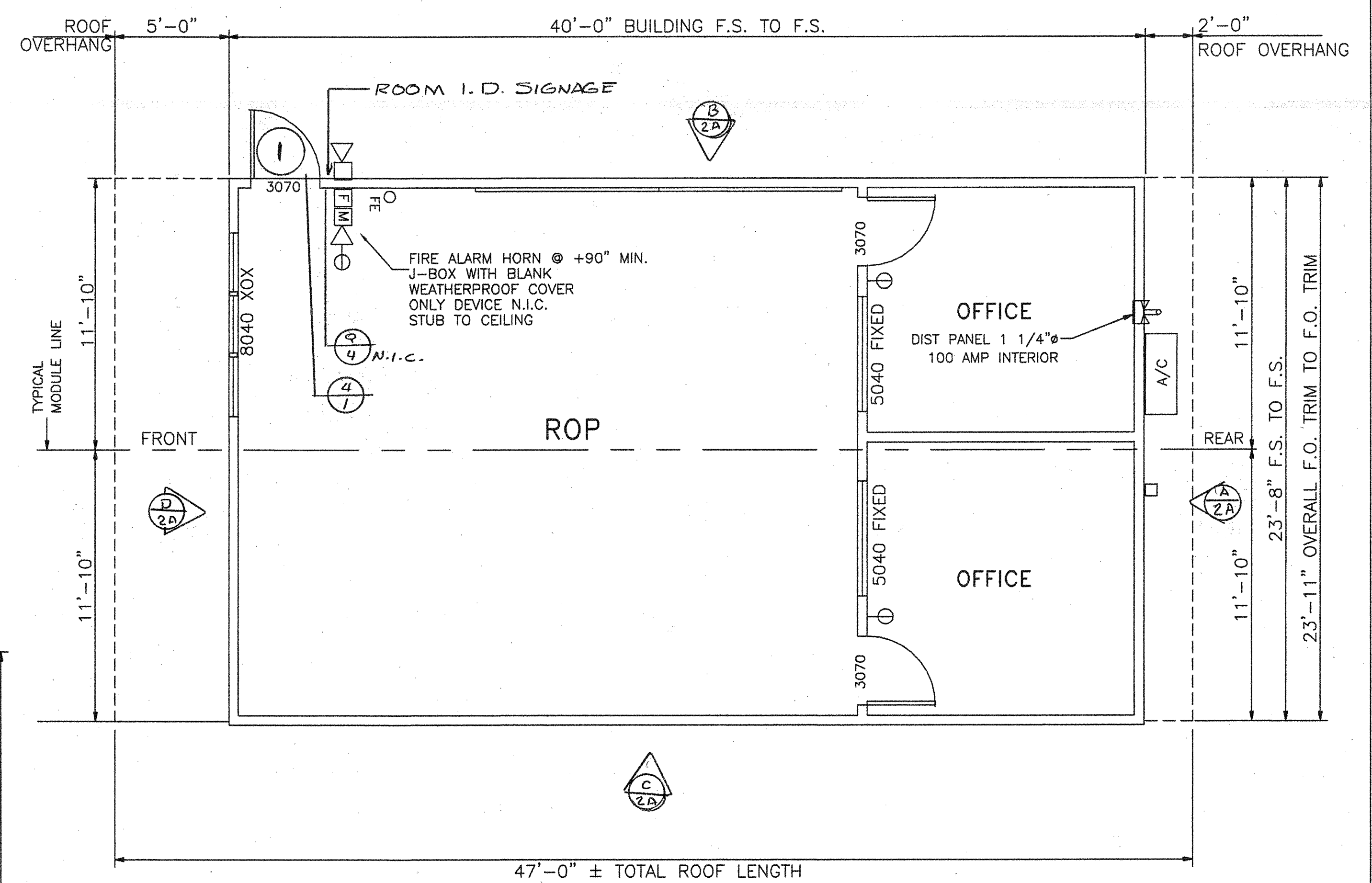
BASED ON PC 02-104915



FLOOR PLAN TYPE K
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 SERIAL # 05-100-751

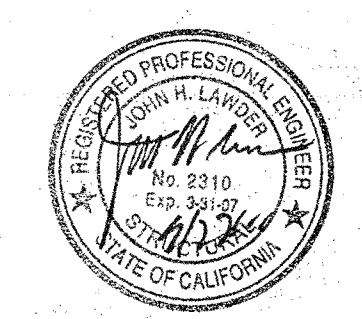


FLOOR PLAN TYPE U
 SERIAL # 05-100-754 SCALE: 1/4"=1'-0"



FLOOR PLAN TYPE Y1
 SERIAL # 05-100-756 SCALE: 1/4"=1'-0"
 70# FLOOR LOAD

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 APPL 01-117316
 ACS FLS SSS D.M.
 DATE 4/10/18



FILE NO.
 IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 02-107162
 ACS FLS SSS
 DATE 4/23/05

BASED ON PC 02-104915

24 X 40
 RELOCATABLE
 CLASSROOMS



CUSTOMER:
 MOBILE MODULAR MANAGEMENT CORP.

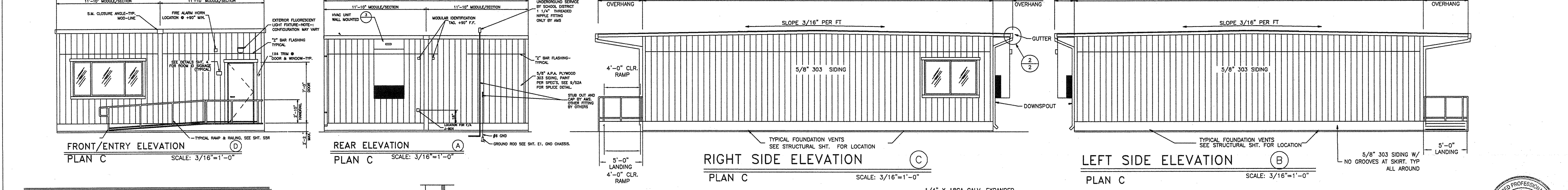
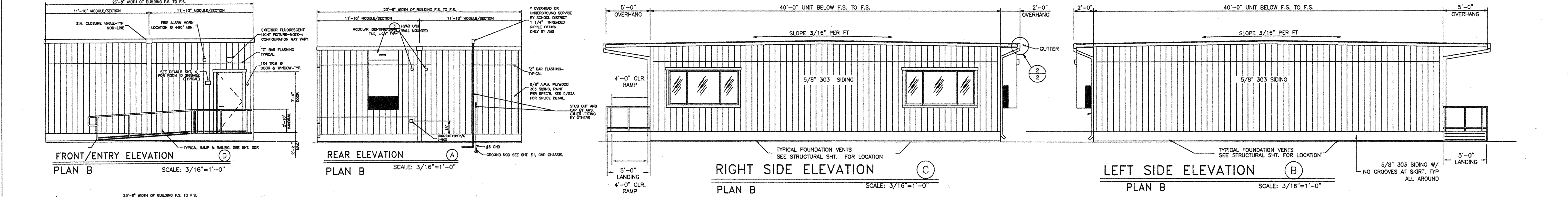
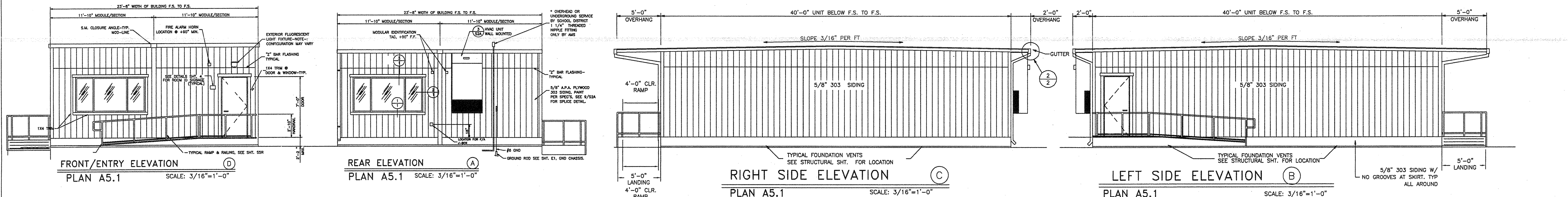
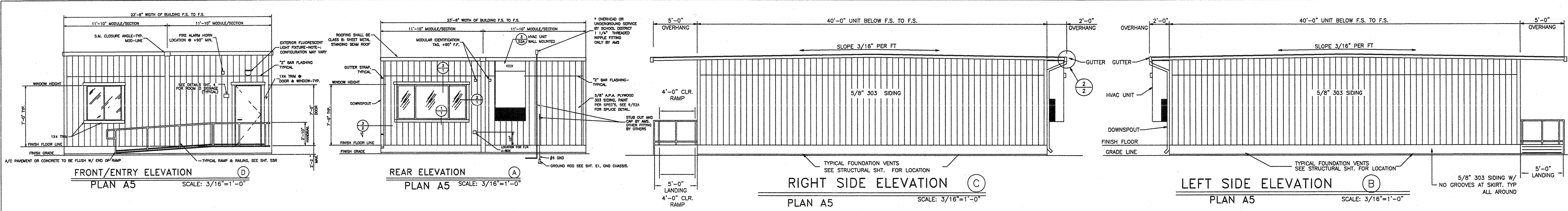
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 CHECKED BY:
 CHECKED BY:
 SERIAL NO.

REVISIONS					
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PROJECT No.

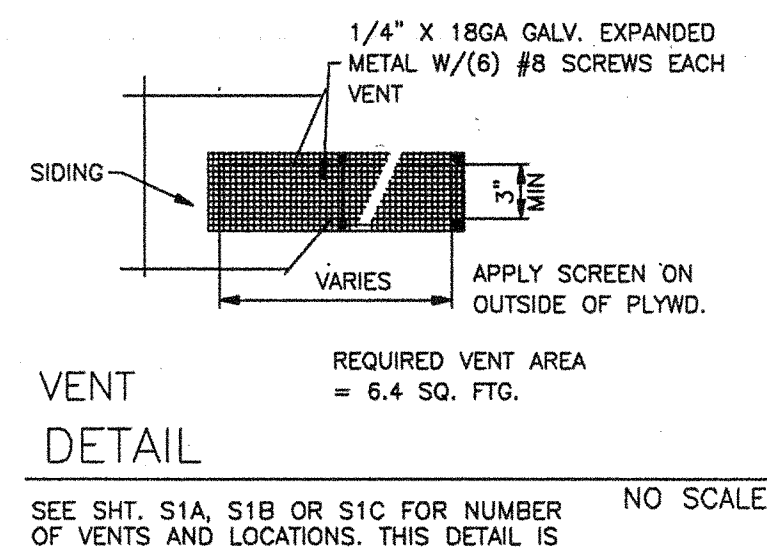
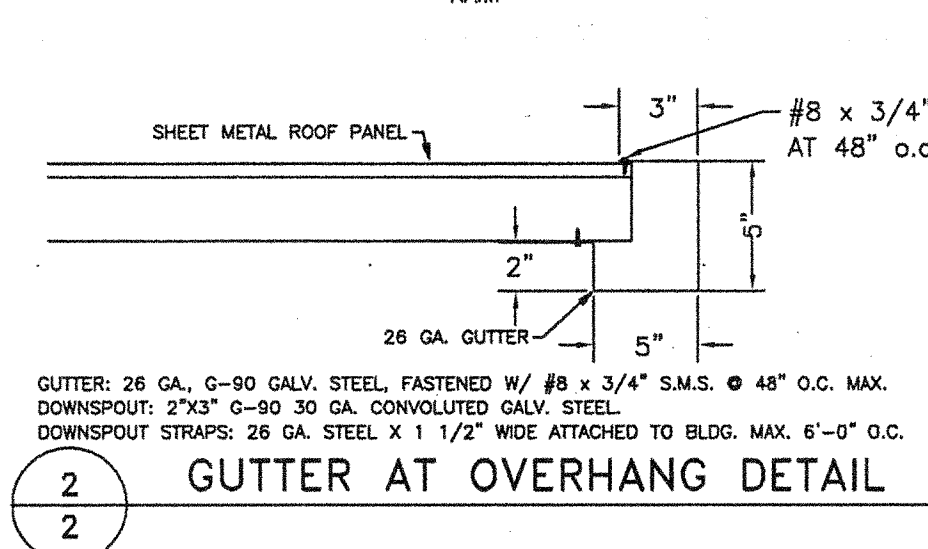
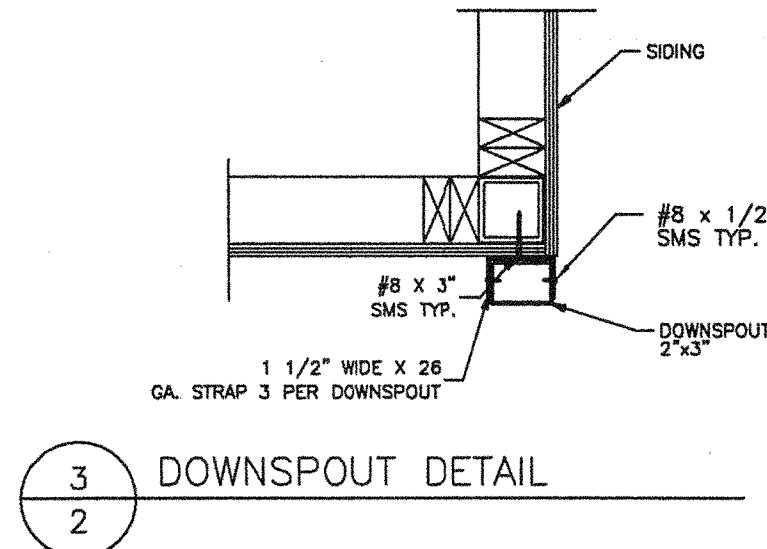
SHEET No.
 1B

FLOOR PLAN & NOTES



ROOM ID SIGNAGE SEE SHEET 4
DETAILS E/4 & 1/4
NOT A PART OF THIS CONTRACT (NOT PROVIDED BY A.M.S.)

NOTE: WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS OR SPACES, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH THE FOLLOWING: CONTRACTED GRADE 2 BRAILLE SHALL BE USED. DOTS SHALL BE 1/10 INCH ON CENTER IN EACH CELL WITH 2/10 INCH SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM 1/40 INCH ABOVE BACKGROUND. SIGNS SHALL BE INSTALLED ON WALL ADJACENT TO LATCH OUTSIDE OF DOOR. WHERE THERE IS NO SPACE ON THE LATCH SIDE, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISH FLOOR TO THE CENTER OF THE SIGN.



IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
ACS FILE NO. 110118
DATE 1/10/18



FILE NO. 02/107162
DATE 4/28/05

BASED ON PC# 02-104915

24 X 40
RELOCATABLE
CLASSROOMS



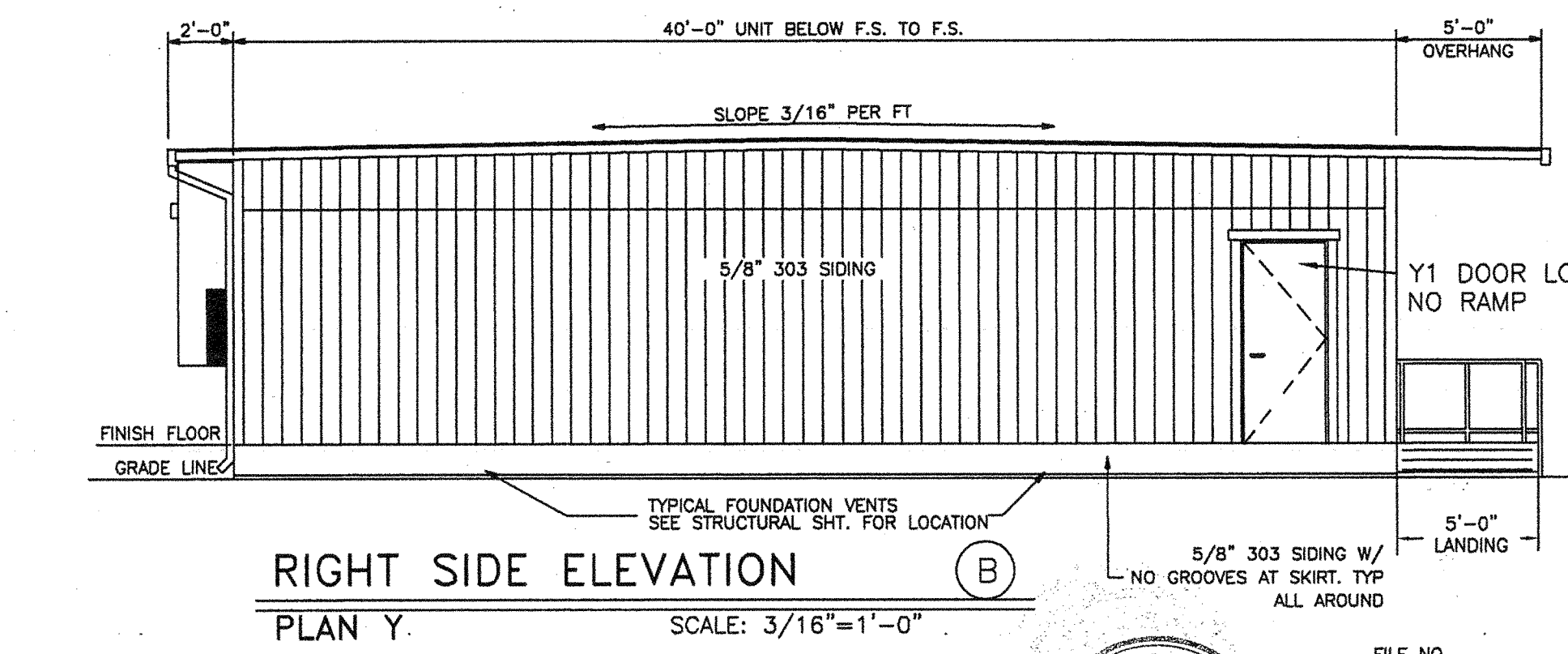
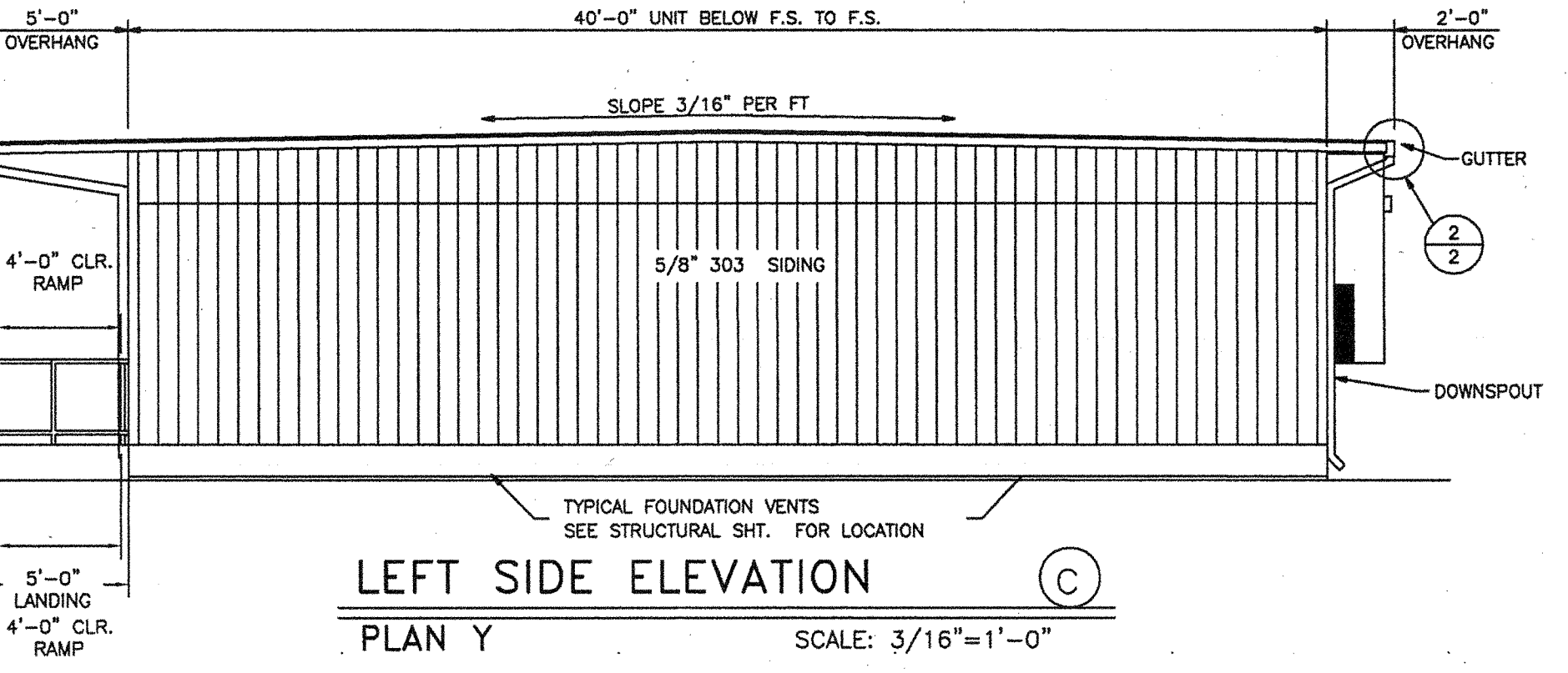
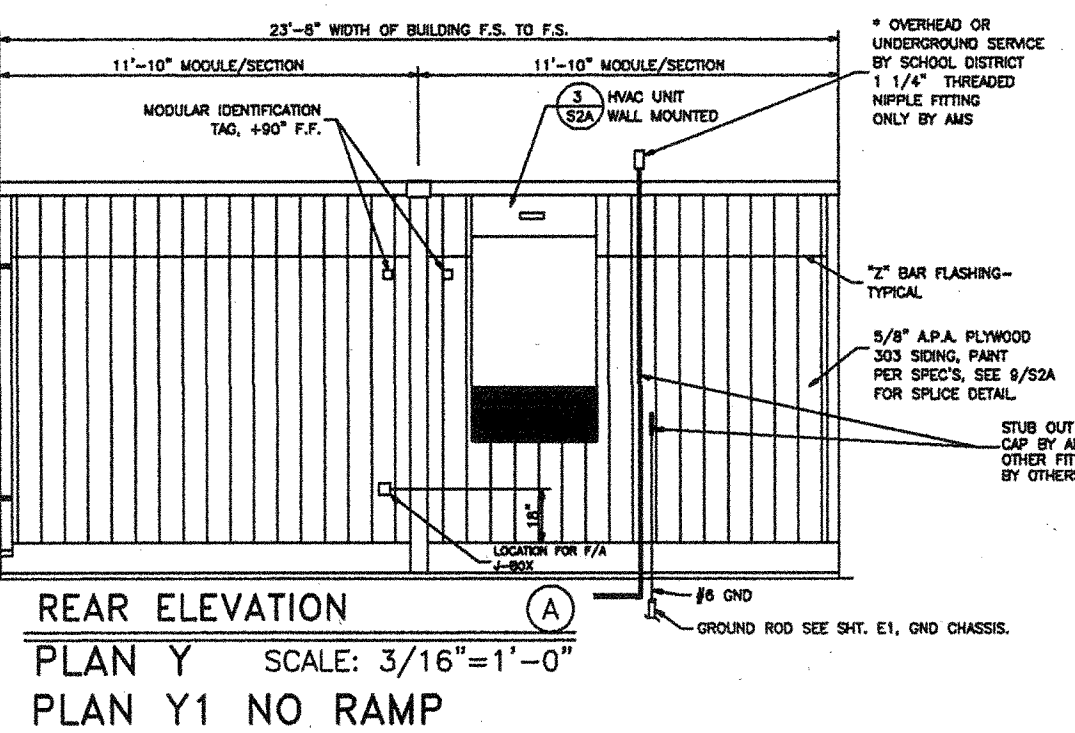
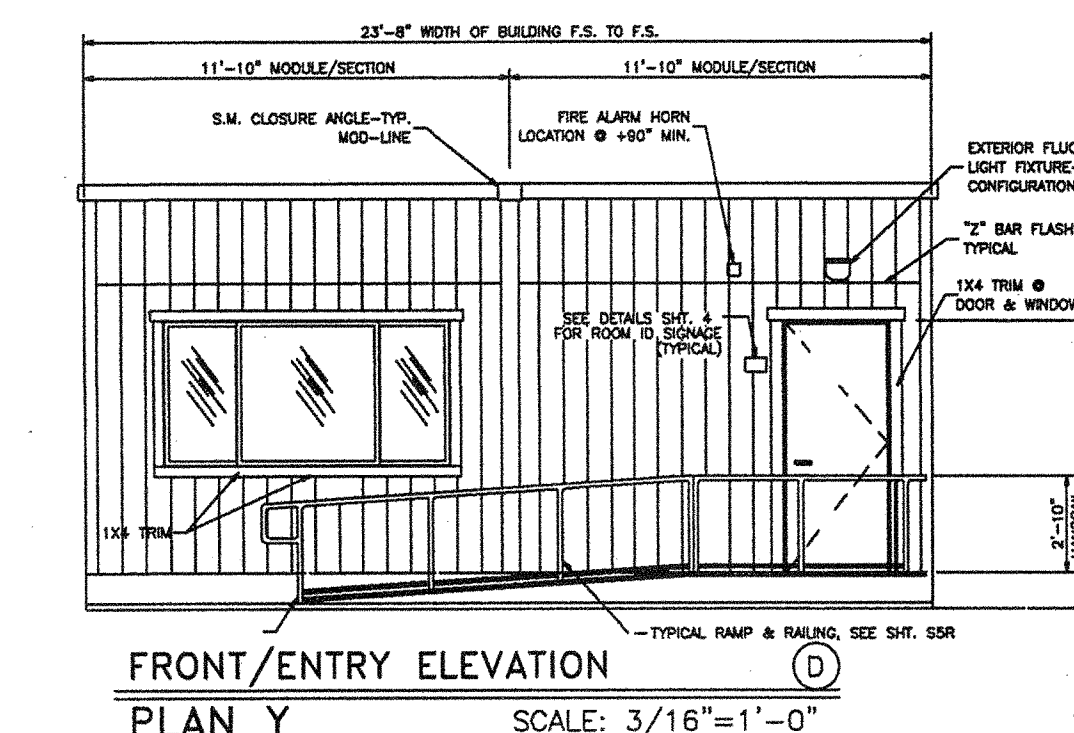
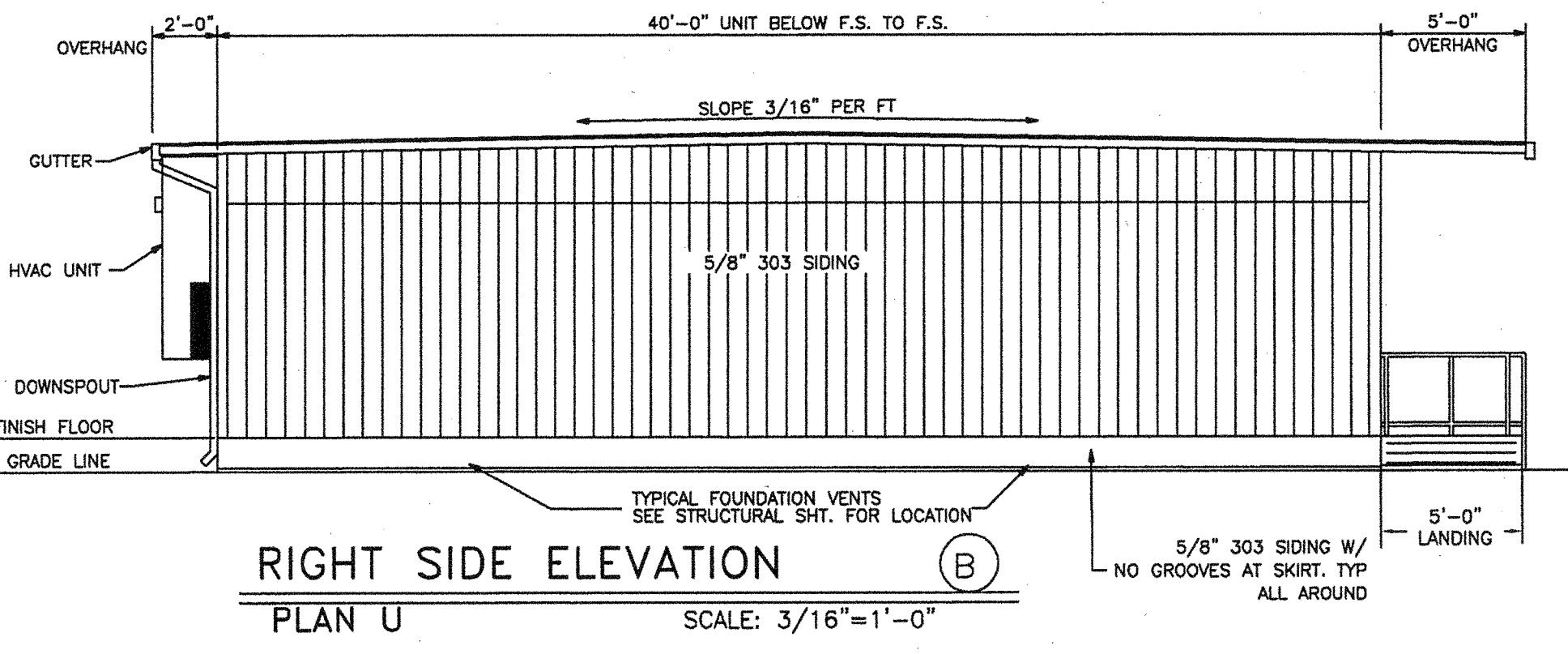
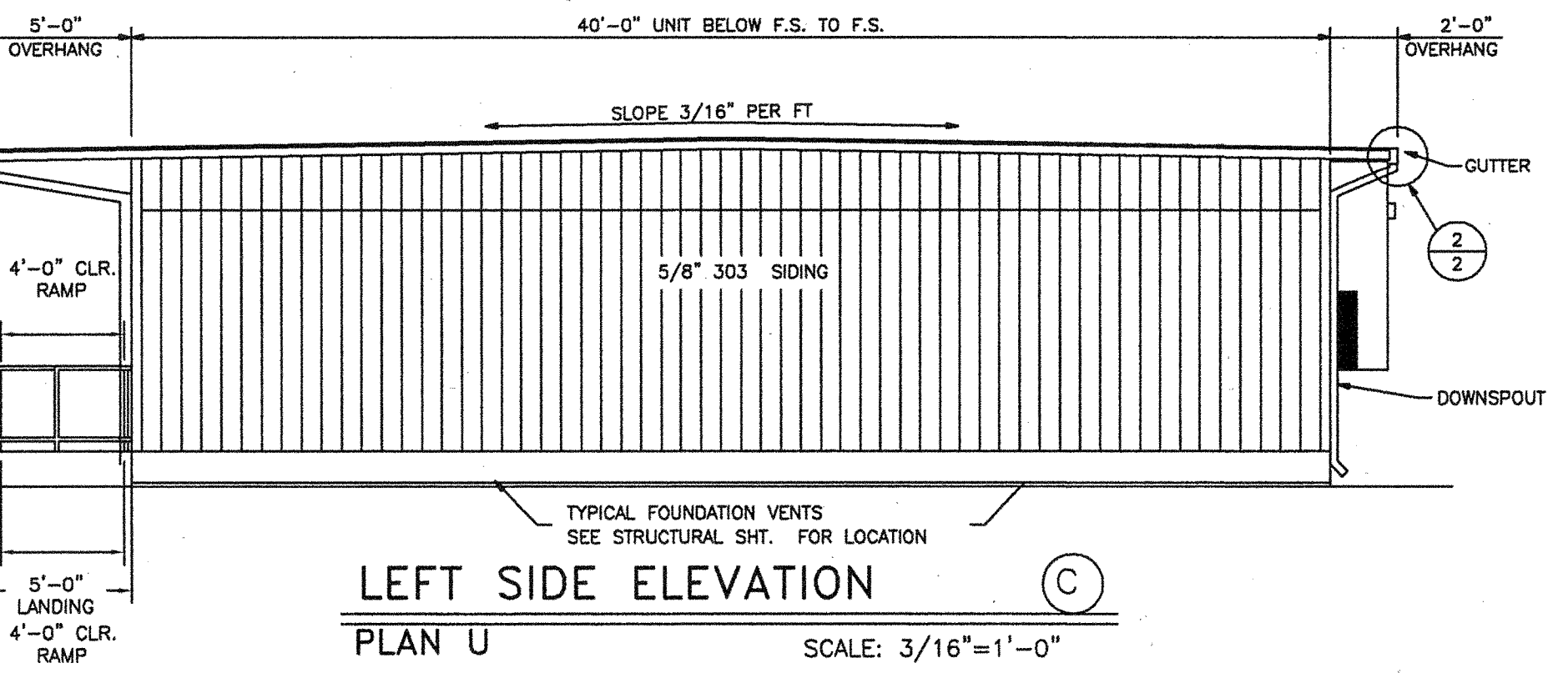
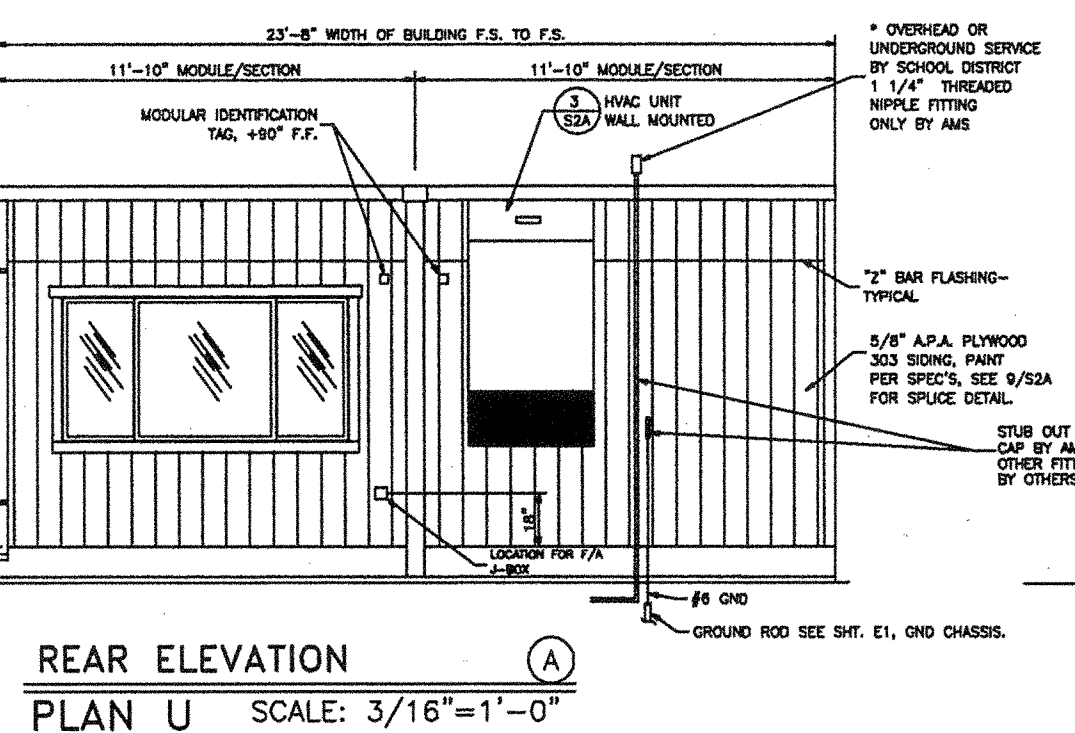
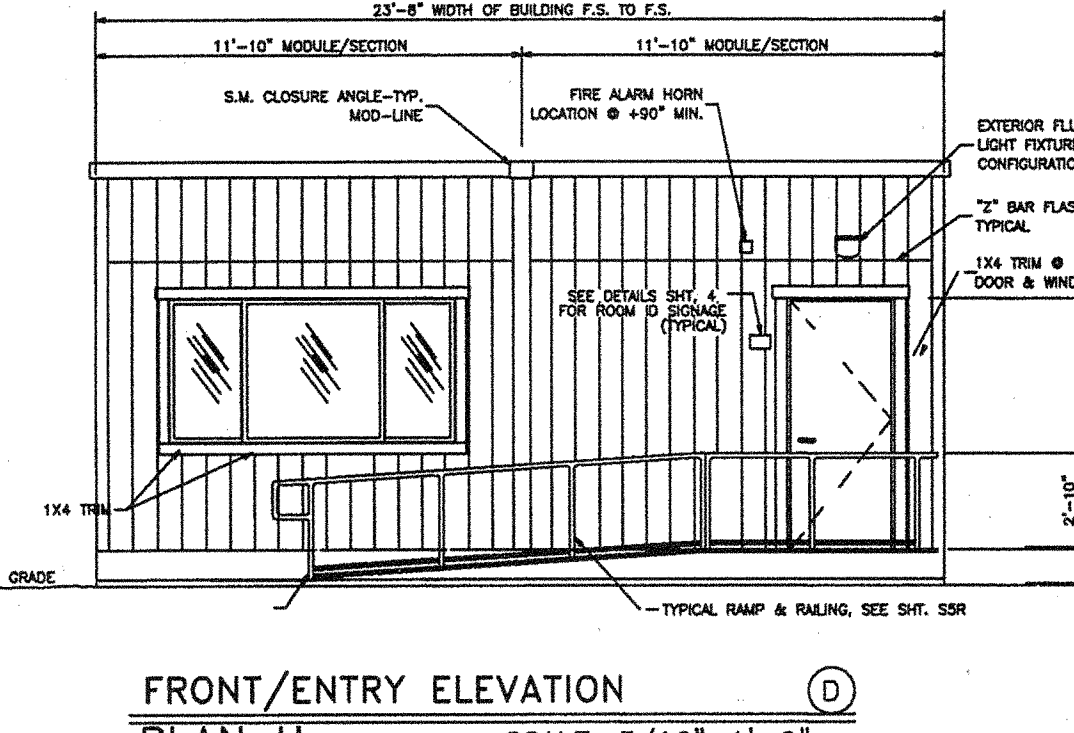
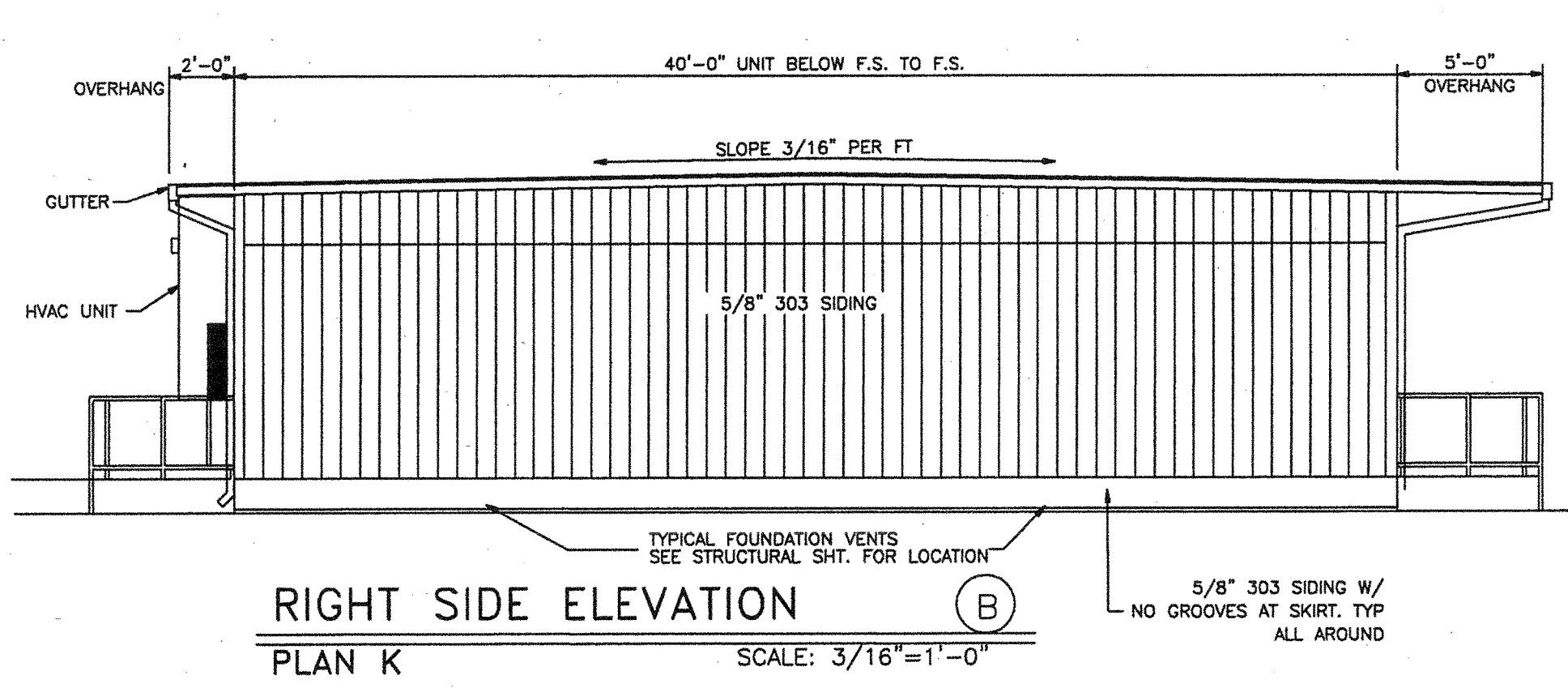
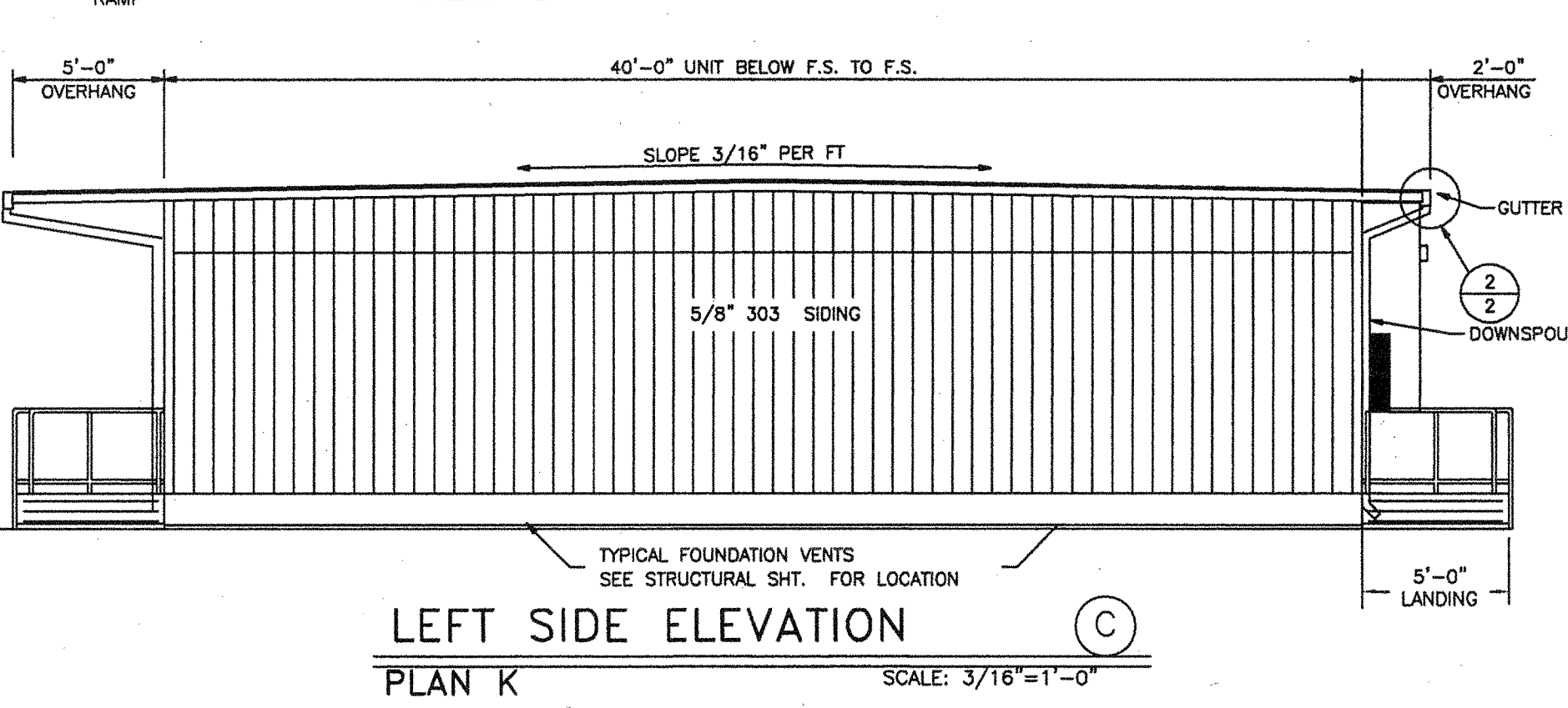
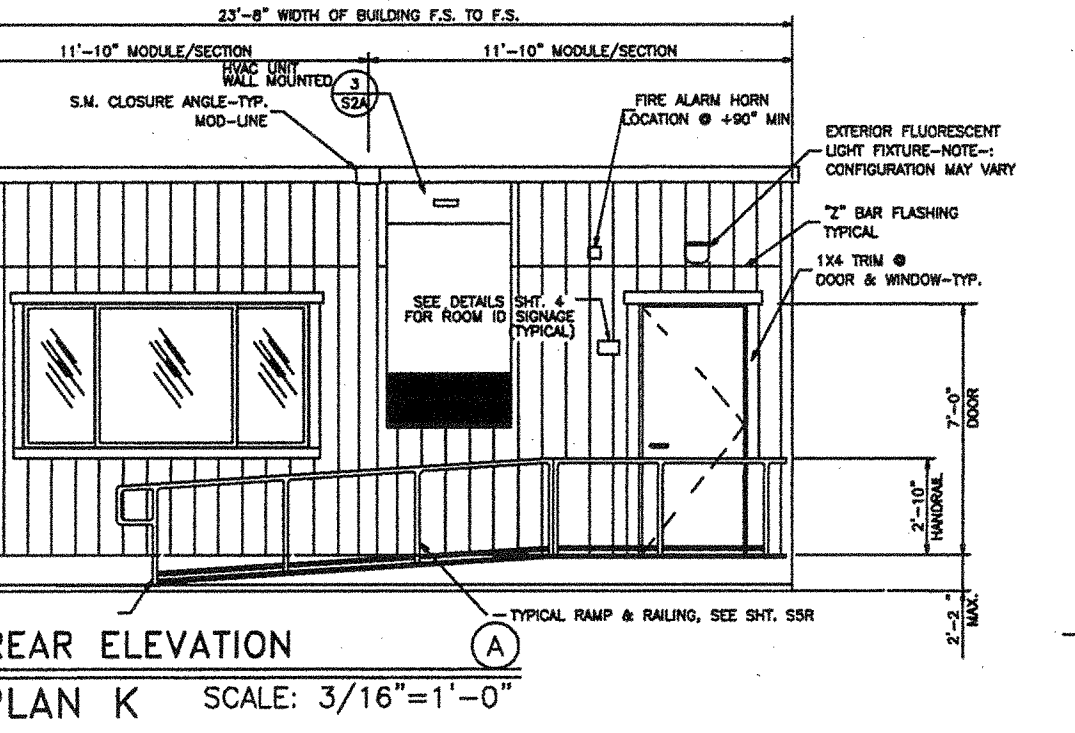
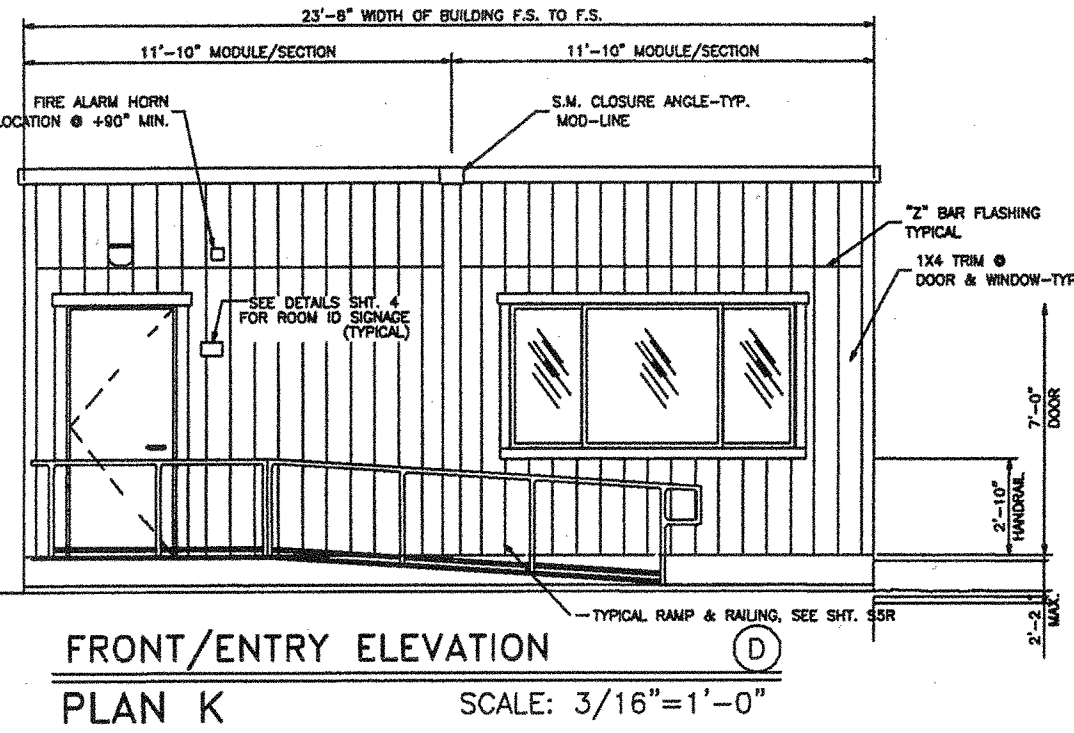
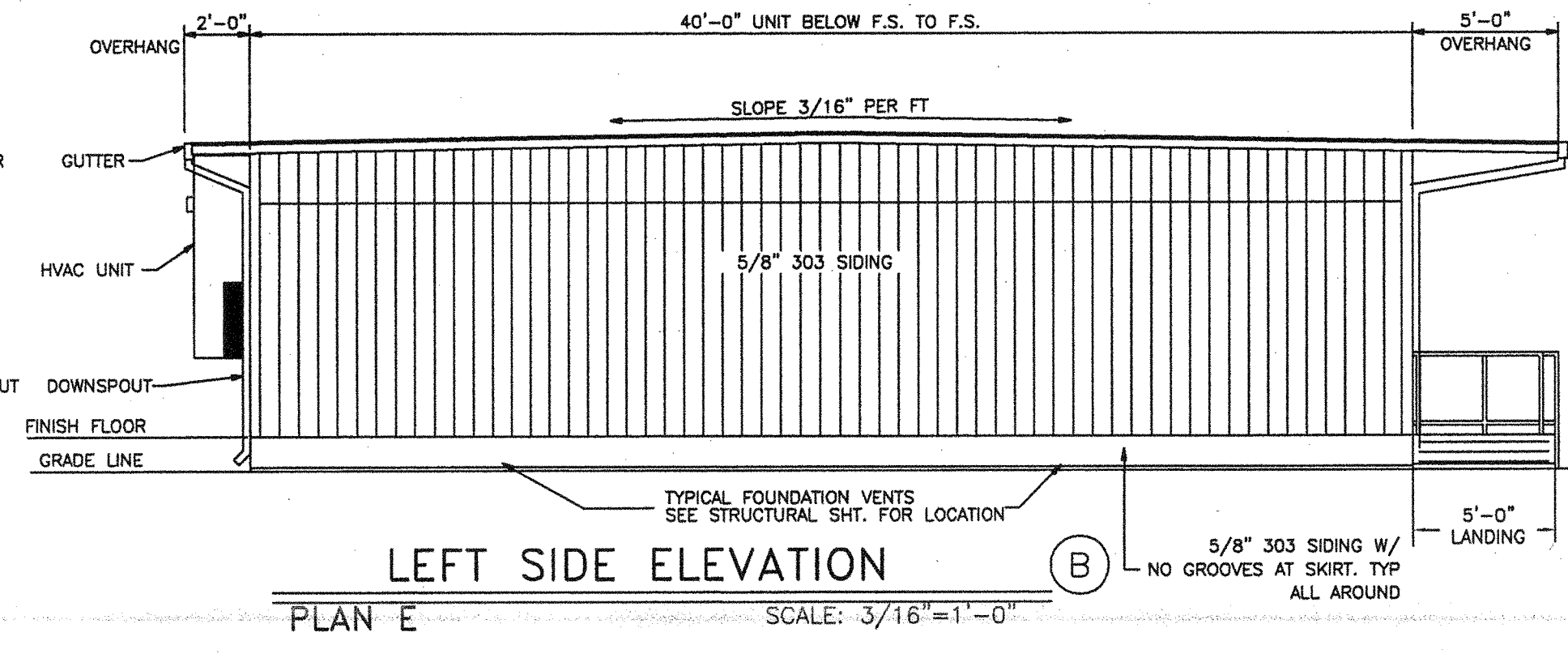
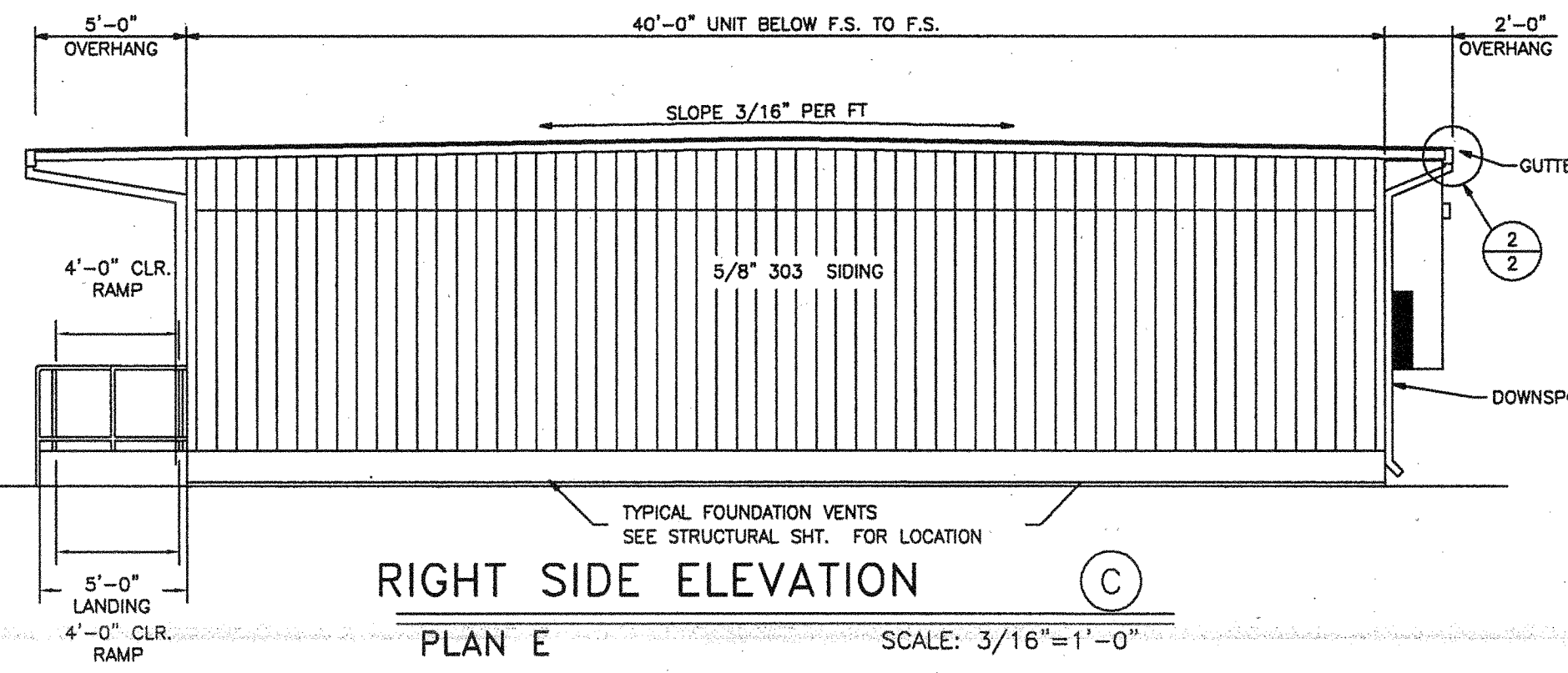
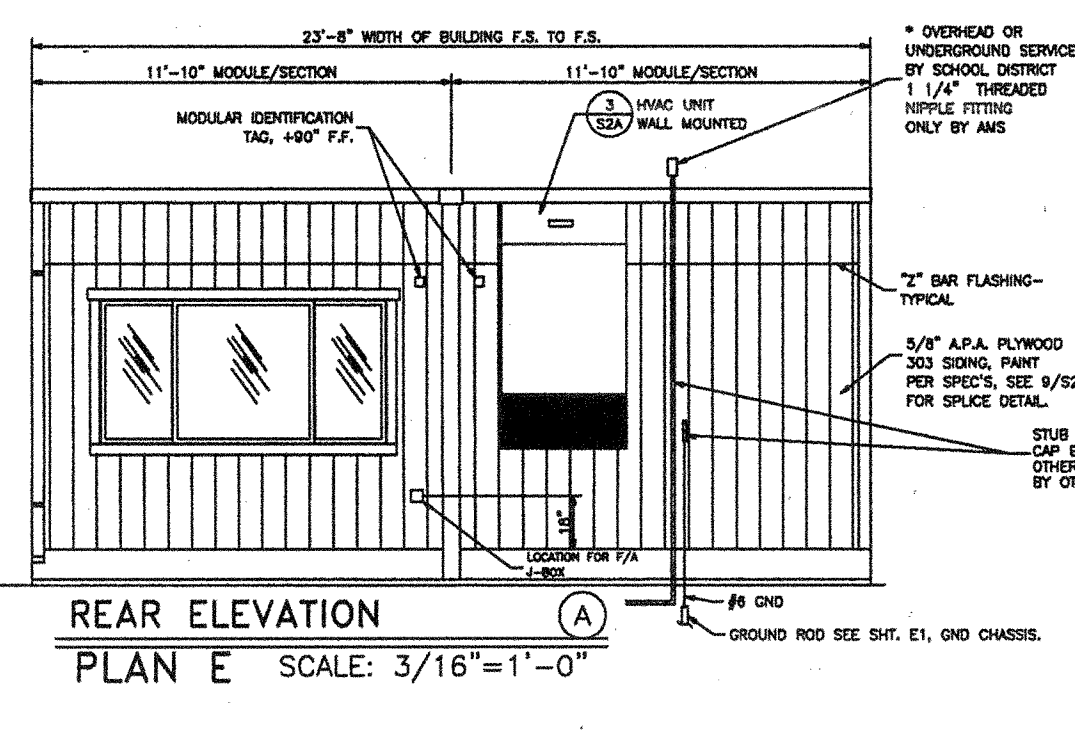
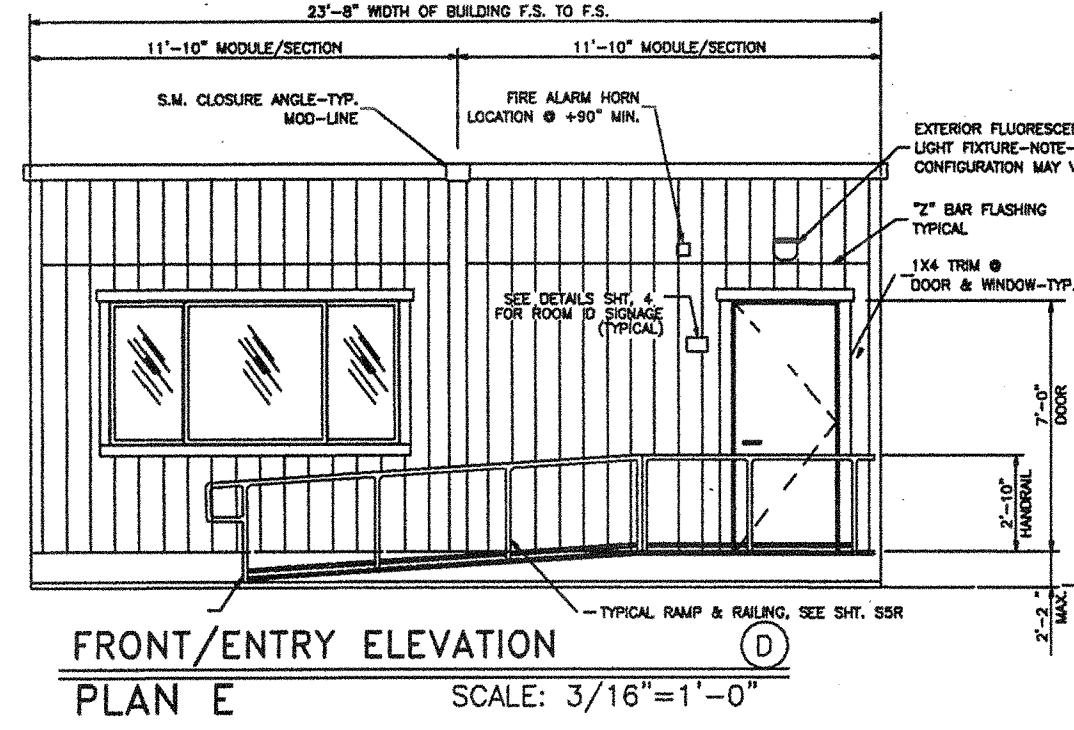
CUSTOMER:
MOBILE MODULAR MANAGEMENT

EXTERIOR ELEVATIONS

DATE: 04-26-05
SCALE: NONE
DRAWN BY: MP
CHECKED BY:
SERIAL NO.

REVISIONS					
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No.
SHEET No.
2



IDENTIFICATION STAMP
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APPL 01-117316
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24 X 40
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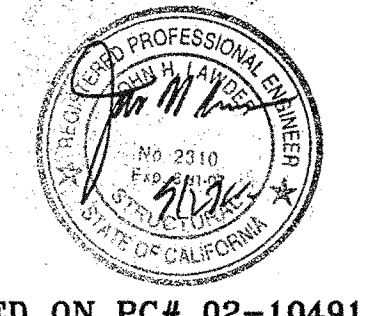
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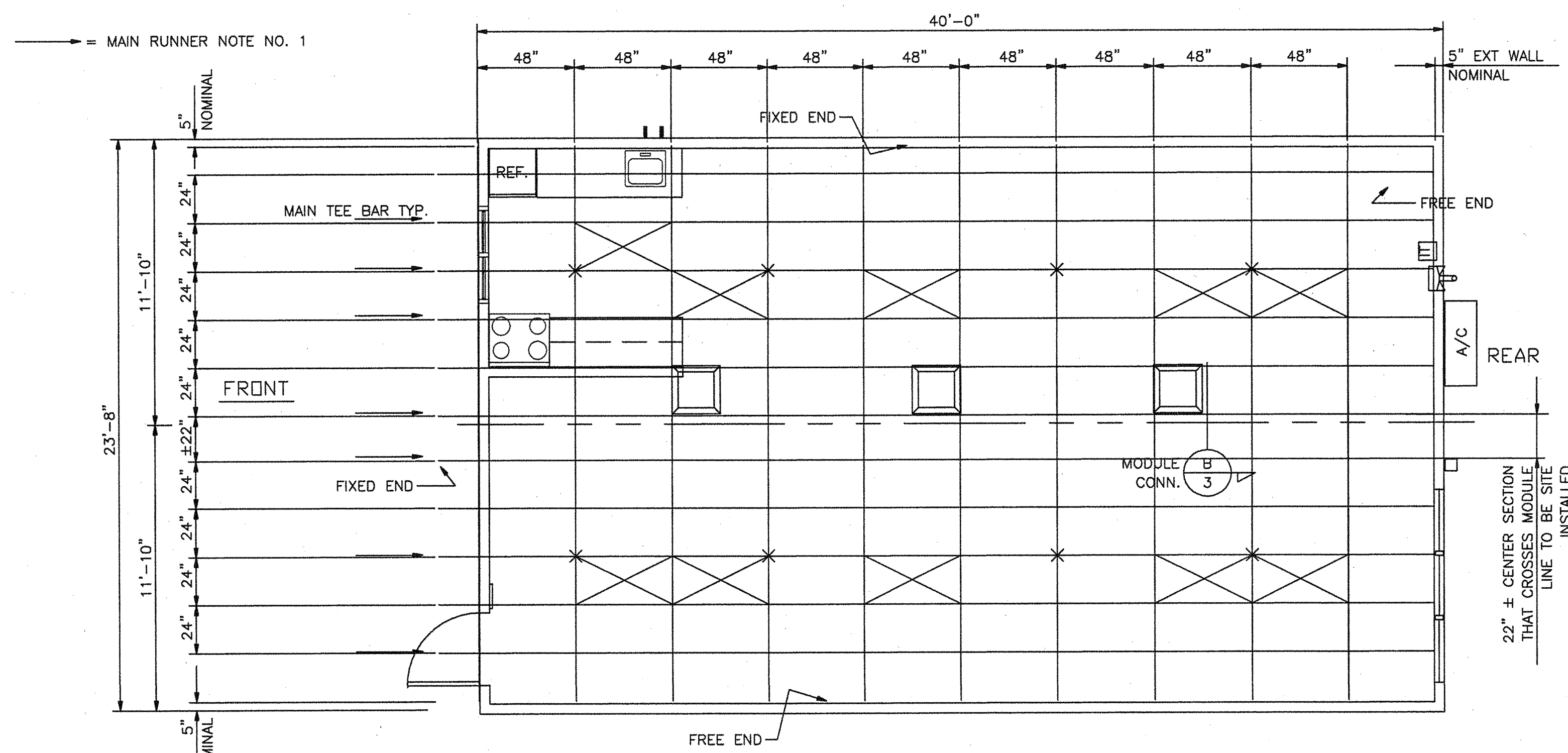
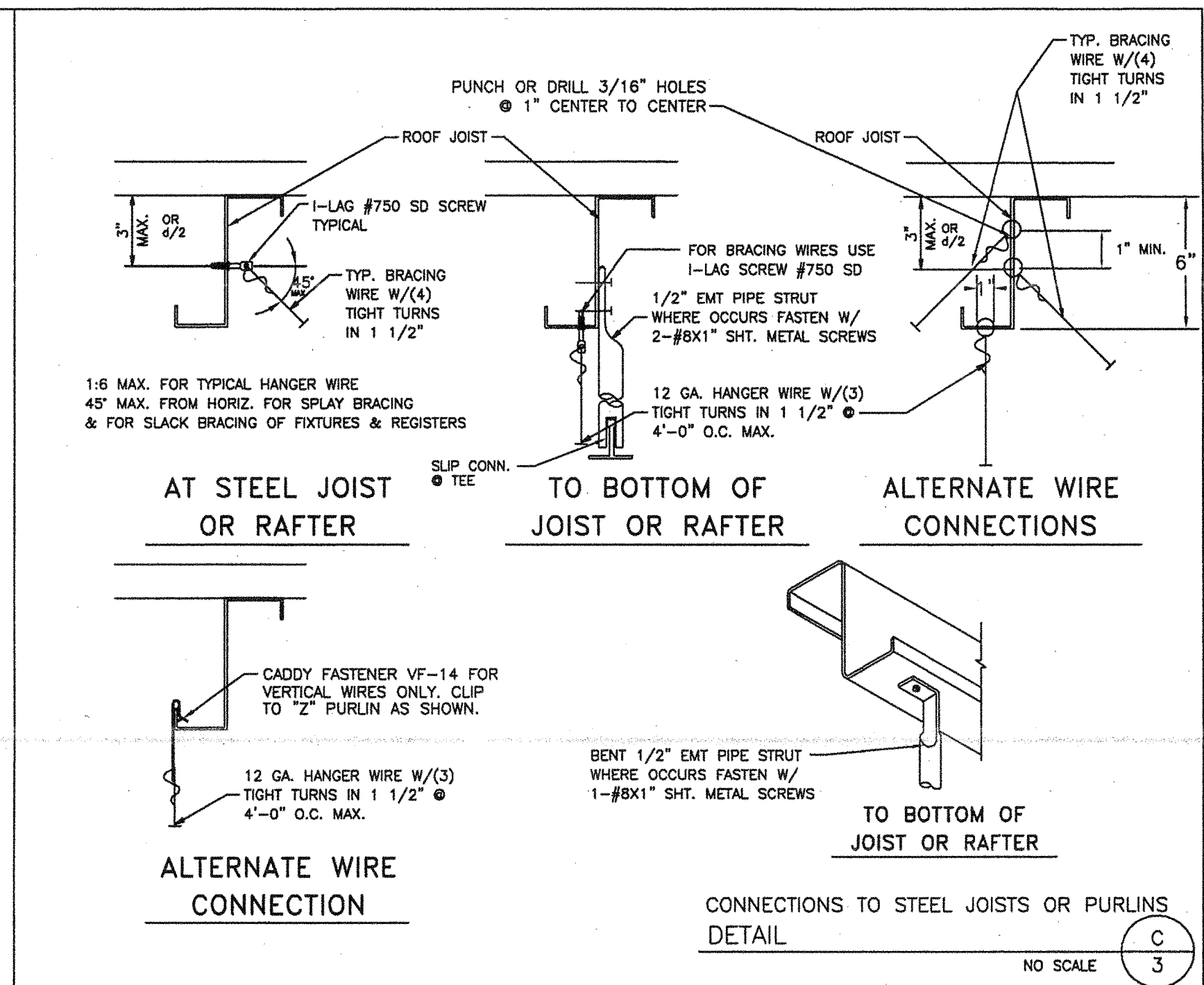
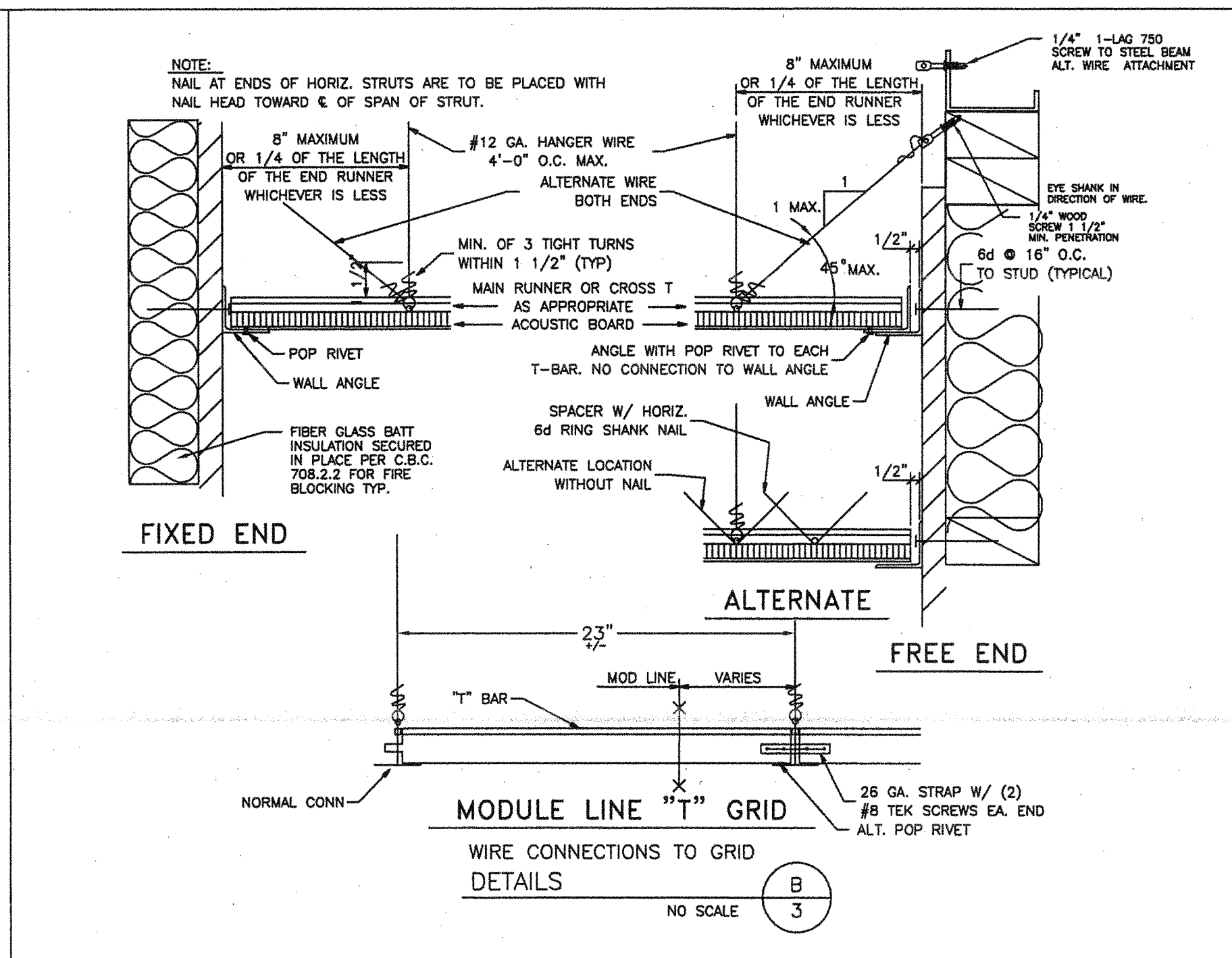
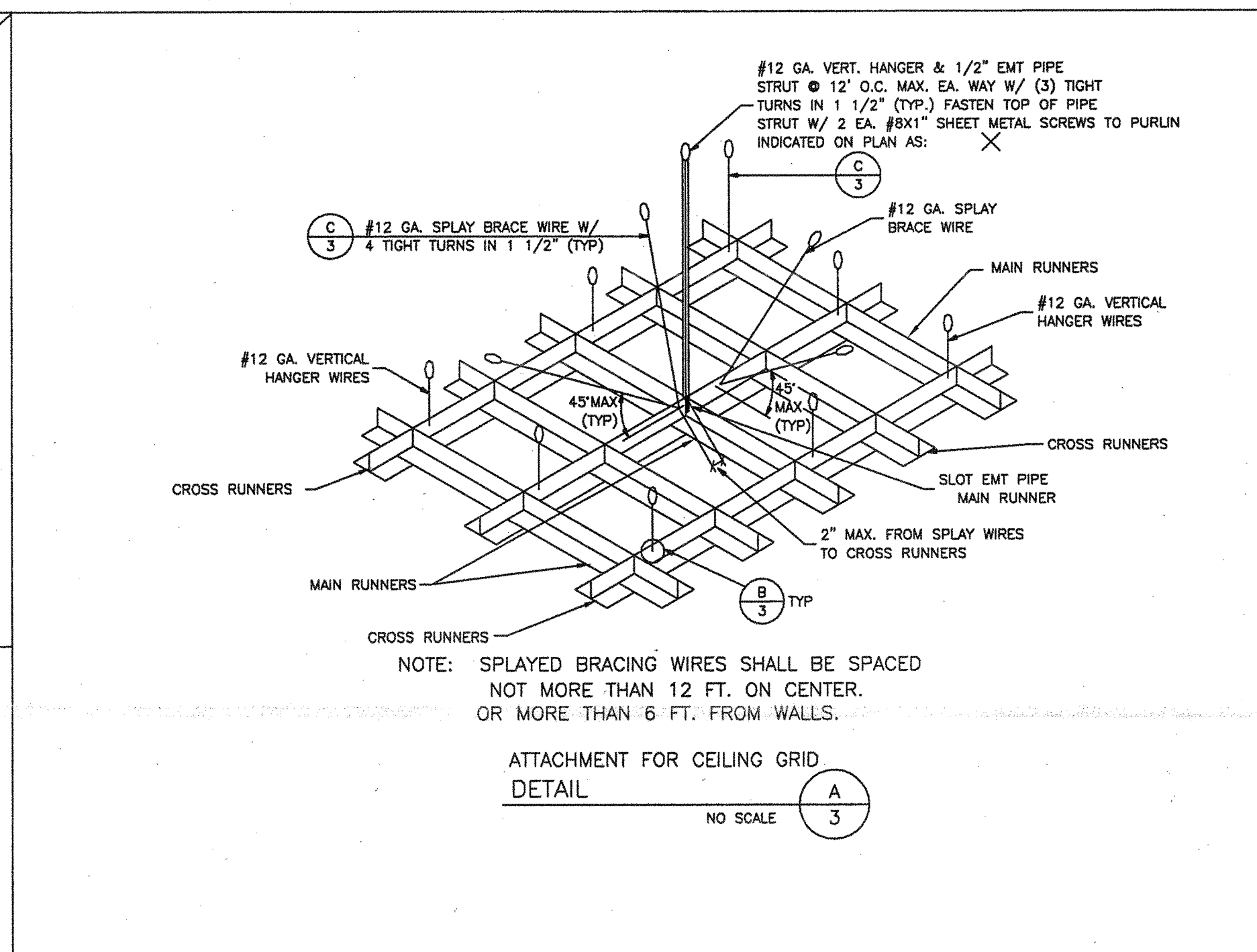
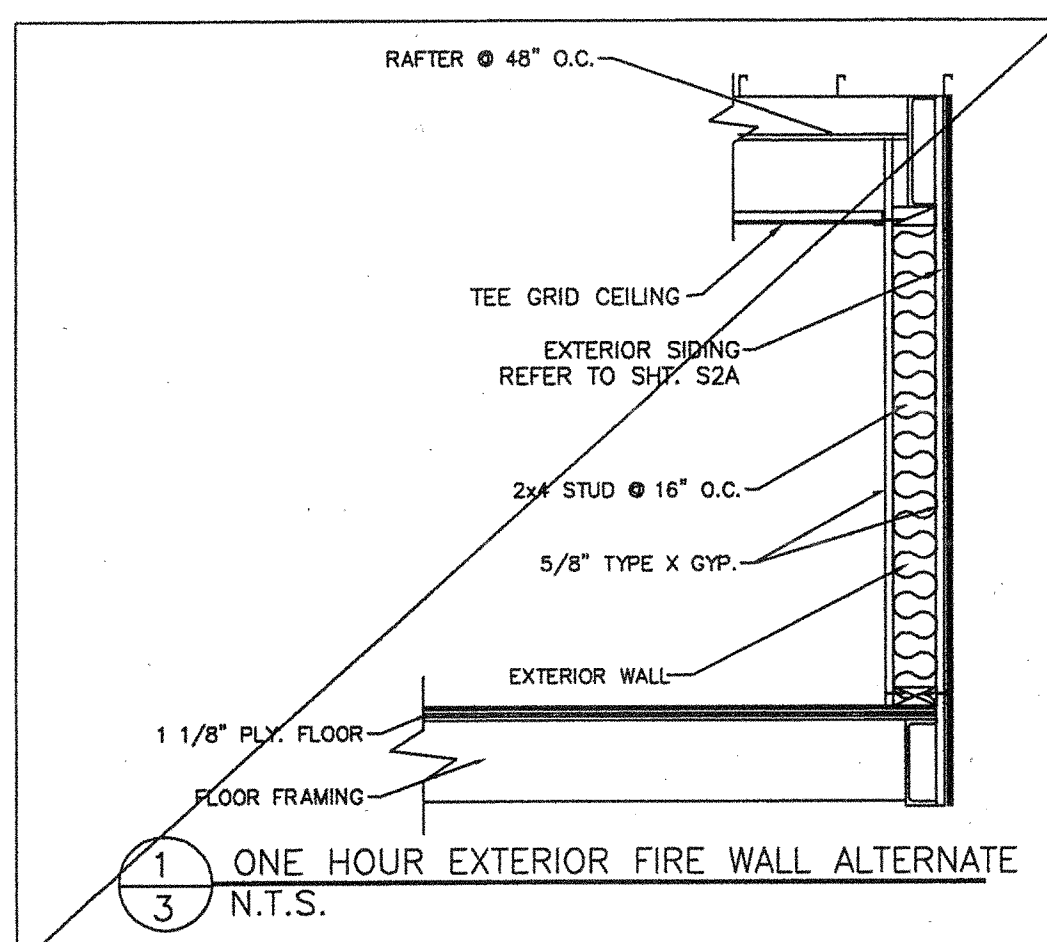
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PROJECT No.
SHEET No.
2A



FILE NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02/107162
ACS DATE 4/28/05

BASED ON PC# 02-104915



CEILING TEE BAR GRID LAYOUT WITH LIGHT FIXTURES A5
 SERIAL # 05-100-743
 # 05-100-744
 # 05-100-749
 SCALE: 1/4"=1'-0"

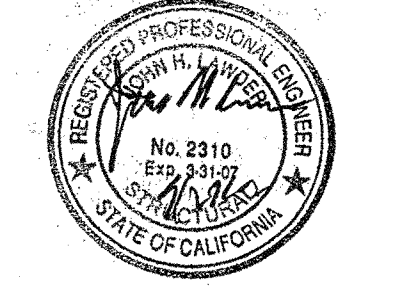
METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING

- 12 GA. (MIN) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0" GRID SPACING, ALONG MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY DSA.
- PROVIDE 12 GA HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS AT THE PERIMETER OF THE CEILING AREA.
- PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREA. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTERBRACED WIRES.
- CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 1/2 INCH FREE OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 1/2 INCH CLEAR OF WALL.
- AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 12" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
- PROVIDE SETS OF 4-#12 GA. SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACINGS:
 - (A) FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
 - (B) PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS
- FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
- SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC., IT IS ACCEPTABLE TO ATTACH LIGHT-WEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL DIAMETER, TO HANGER WIRES USING CONNECTORS ACCEPTABLE TO DSA.
- ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES.
- FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF 2-#12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
- CLASSIFICATION OF CEILING GRID: CLASSIFICATION OF CEILING GRID IS "HEAVY DUTY" PER ASTM C635
 MANUFACTURER'S CATALOG NUMBER - MAIN RUNNER HEAVY DUTY MAIN TEE OR EQUAL PER TABLE A.
 MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER PER TABLE A.
 MANUFACTURER'S CATALOG NUMBER OF DETAIL FOR RUNNER SPLICE N/A.
 ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE ASTM FLAME SPREAD CLASS 1, 24" X 48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM. MAXIMUM SMOKE DENSITY NOT TO EXCEED 450.

TABLE A HEAVY DUTY GRID COMPONENTS

MANUFACTURER	MAIN TEE	H.D. 4" CROSS TEE	H.D. 2" CROSS TEE
DONN/USG	DX-28	DX-424	DX-218
ARMSTRONG	7301	7341	7323
CHICAGO MET.	200-01	1204-01	1228-01

NOTE: ALL GRID COMPONENTS SHALL BE BY SAME MANUFACTURER



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 CLASSROOMS



CUSTOMER:
 MOBILE MODULAR MANAGEMENT CORP.

CEILING GRID, DETAILS AND NOTES

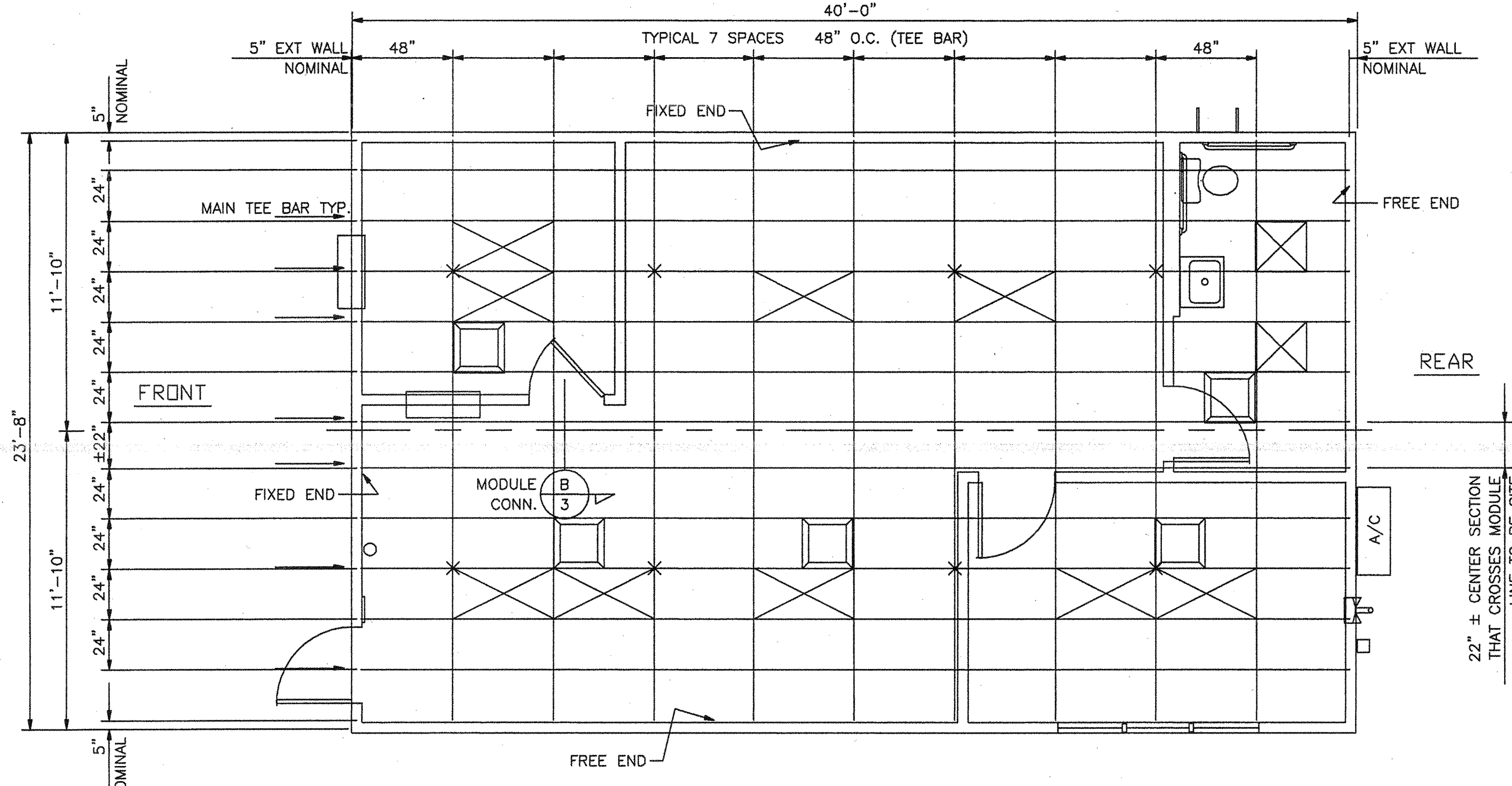
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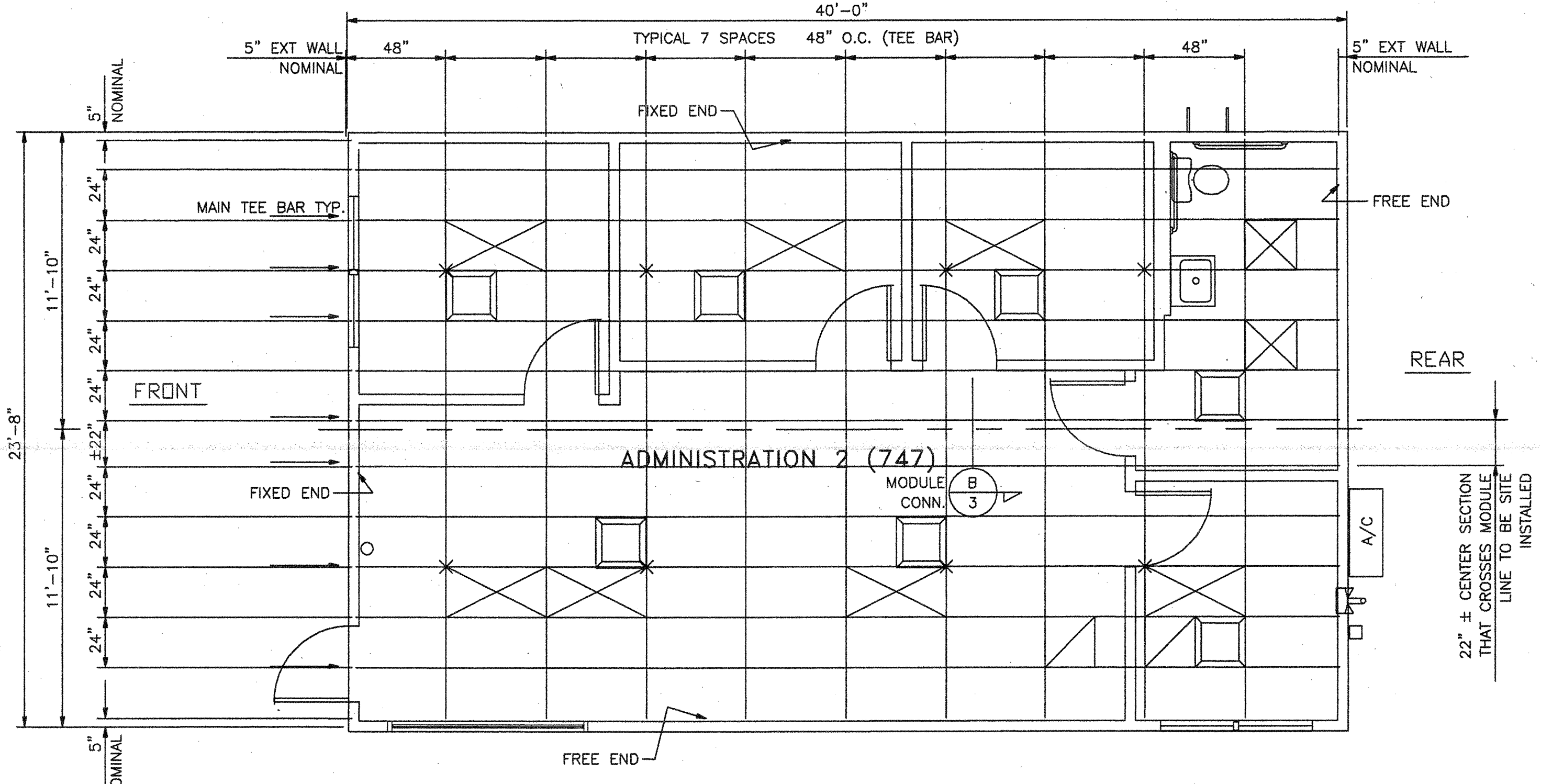
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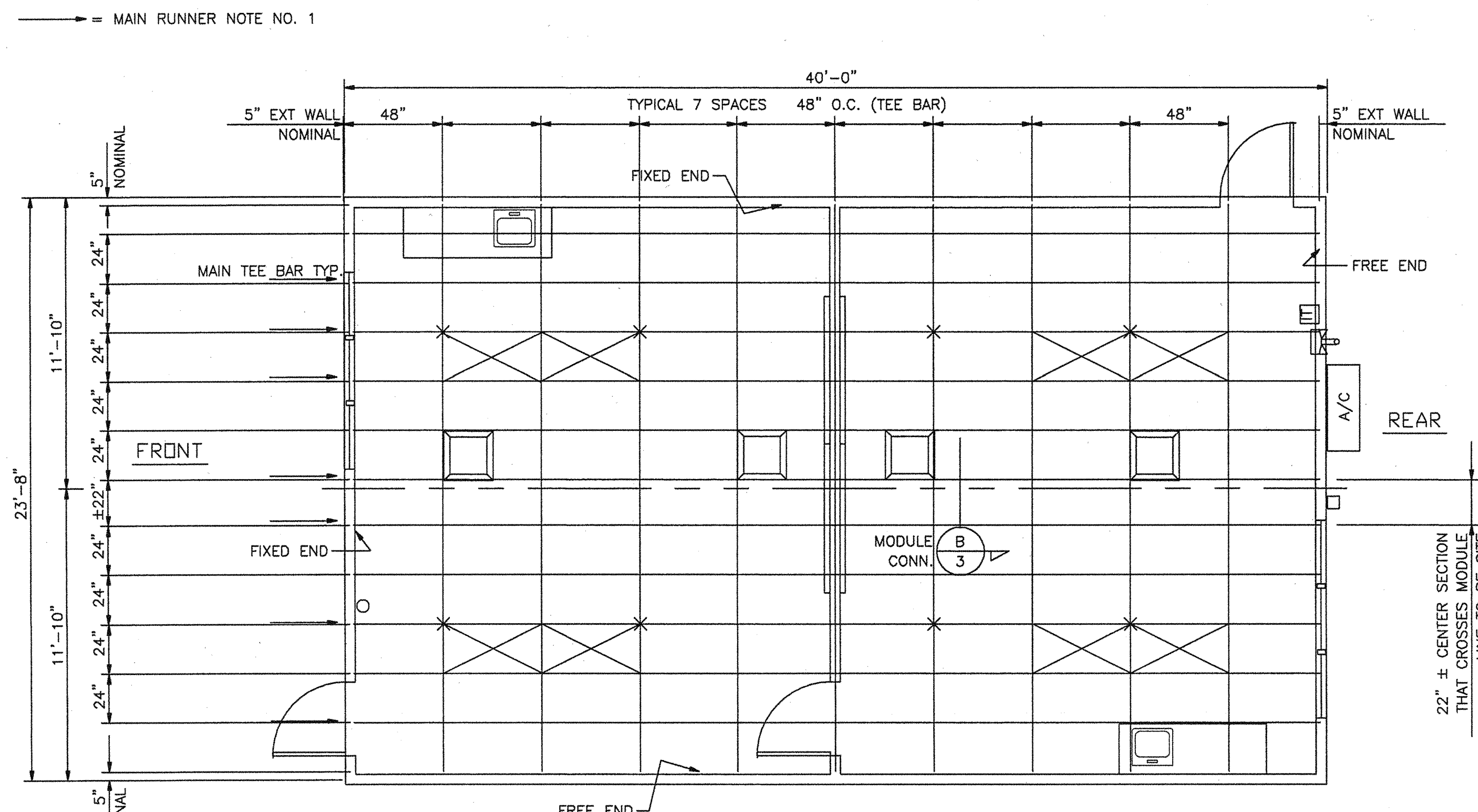
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 APPL 01-117316
 ACS DATE 4/28/05



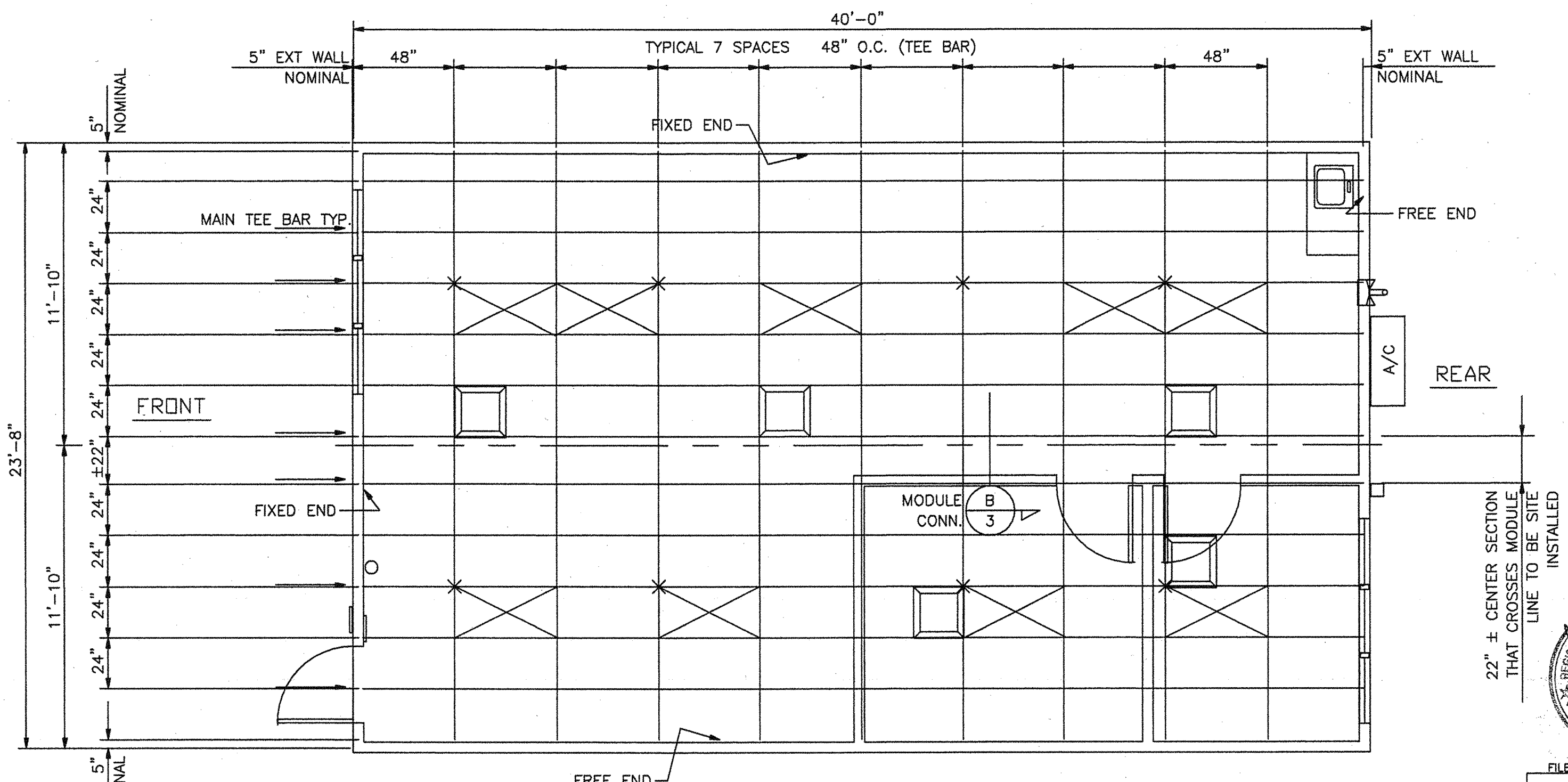
CEILING TEE BAR GRID LAYOUT WITH LIGHT FIXTURES B
 SERIAL # 05-100-746 SCALE: 1/4"=1'-0"



CEILING TEE BAR GRID LAYOUT WITH LIGHT FIXTURES C
 SERIAL # 05-100-747 SCALE: 1/4"=1'-0"



CEILING TEE BAR GRID LAYOUT WITH LIGHT FIXTURES A5.1
 SERIAL # 05-100-745 SCALE: 1/4"=1'-0"



CEILING TEE BAR GRID LAYOUT WITH LIGHT FIXTURES E
 SERIAL # 05-100-748 SCALE: 1/4"=1'-0"

MAIN RUNNER NOTE NO. 1

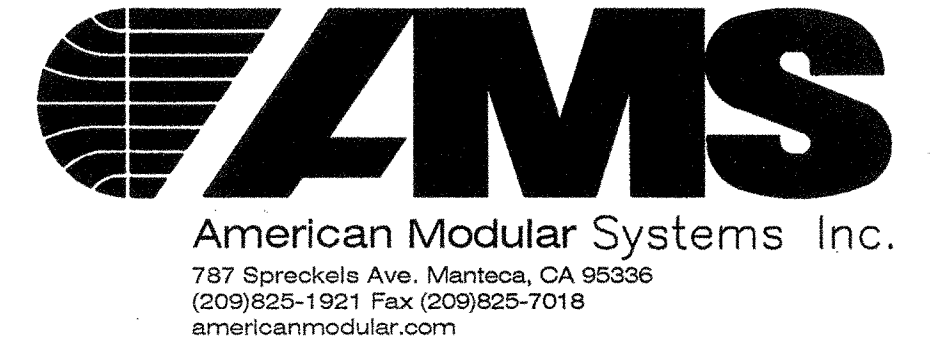
IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 APPL 01-117316
 FCS DATE 1/10/18



FILE NO.
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 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 02-107162
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BASED ON PC 02-104915

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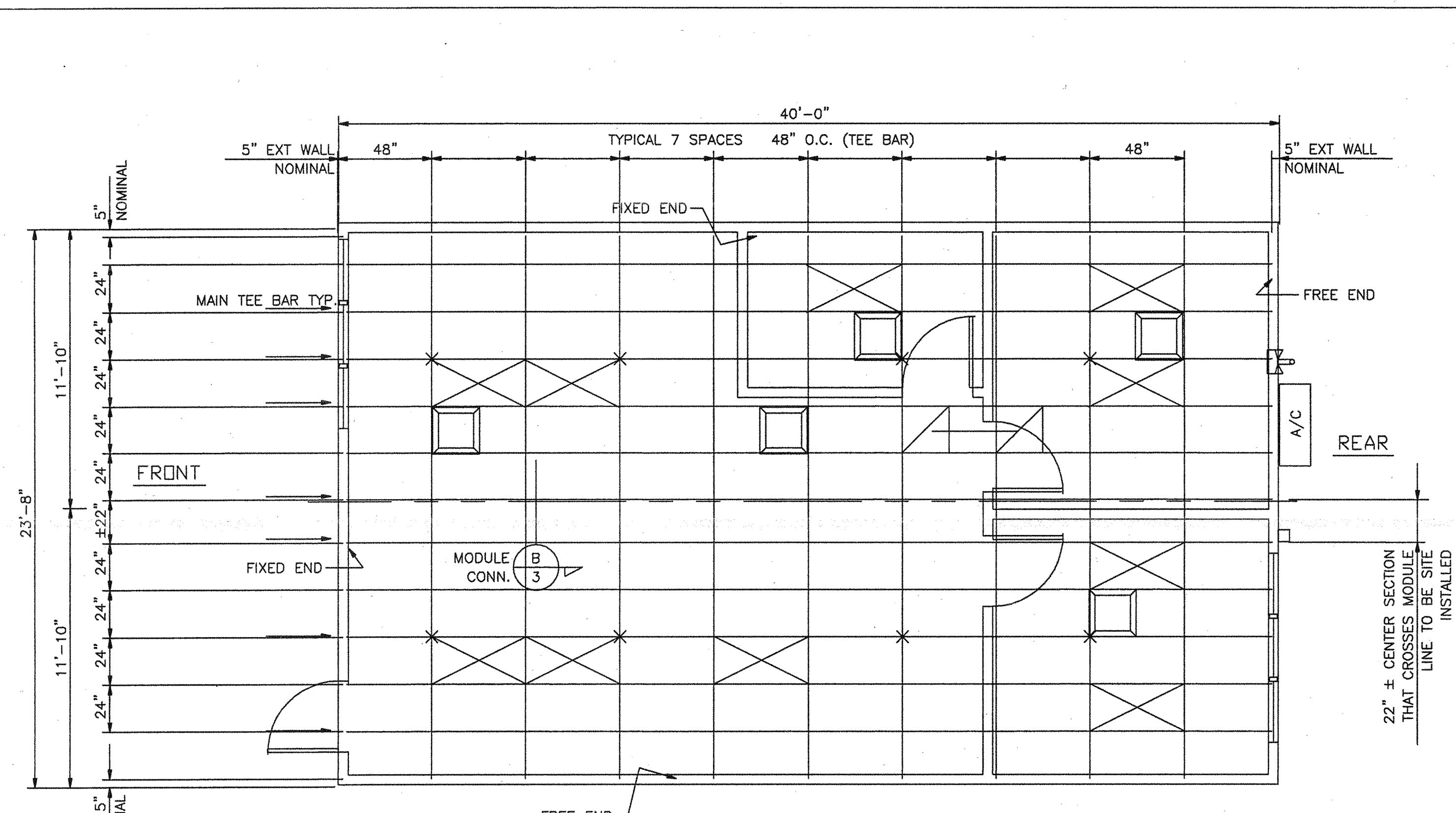
CUSTOMER:
 MOBILE MODULAR MANAGEMENT CORP.

CEILING GRID, DETAILS AND NOTES

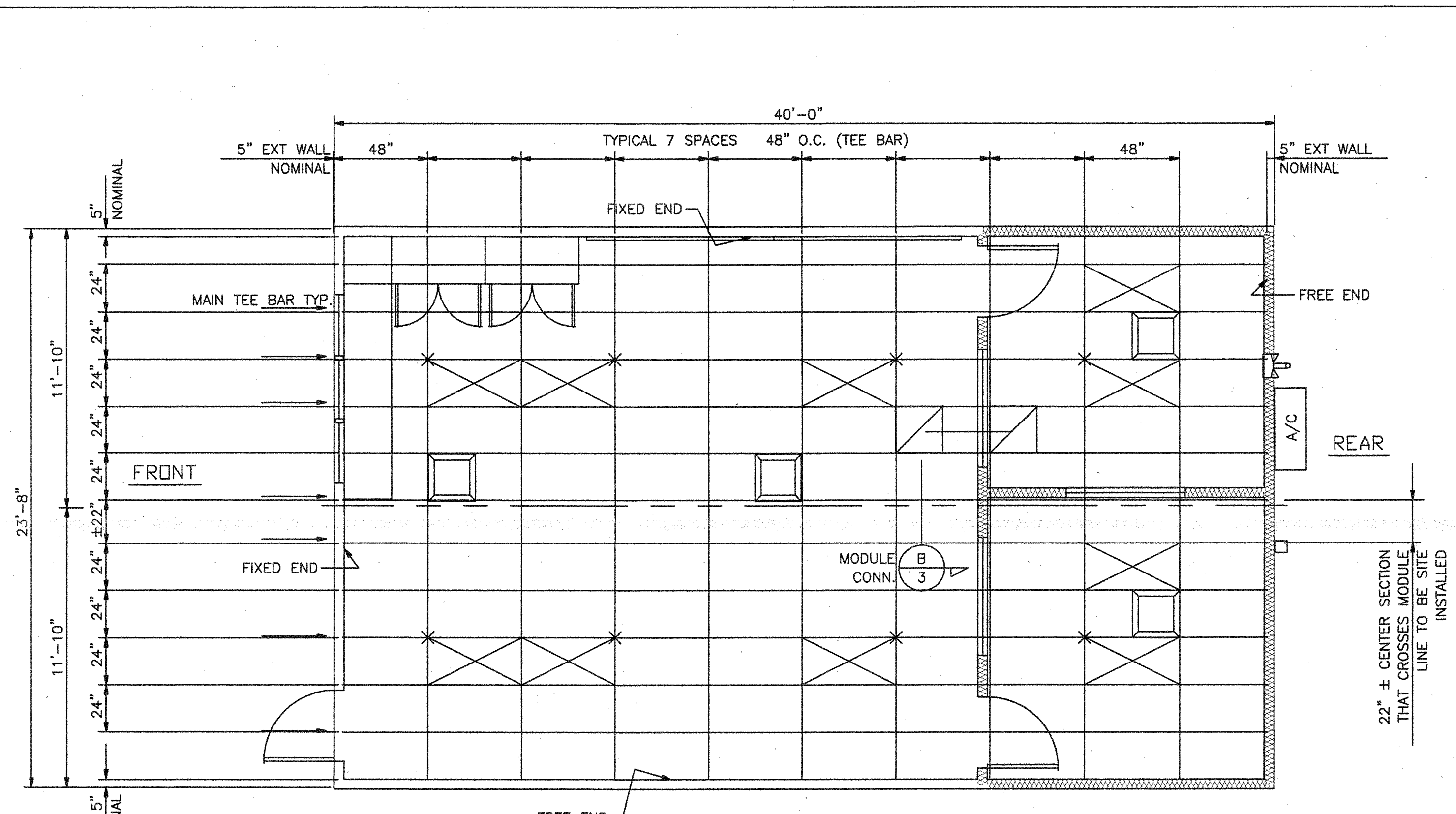
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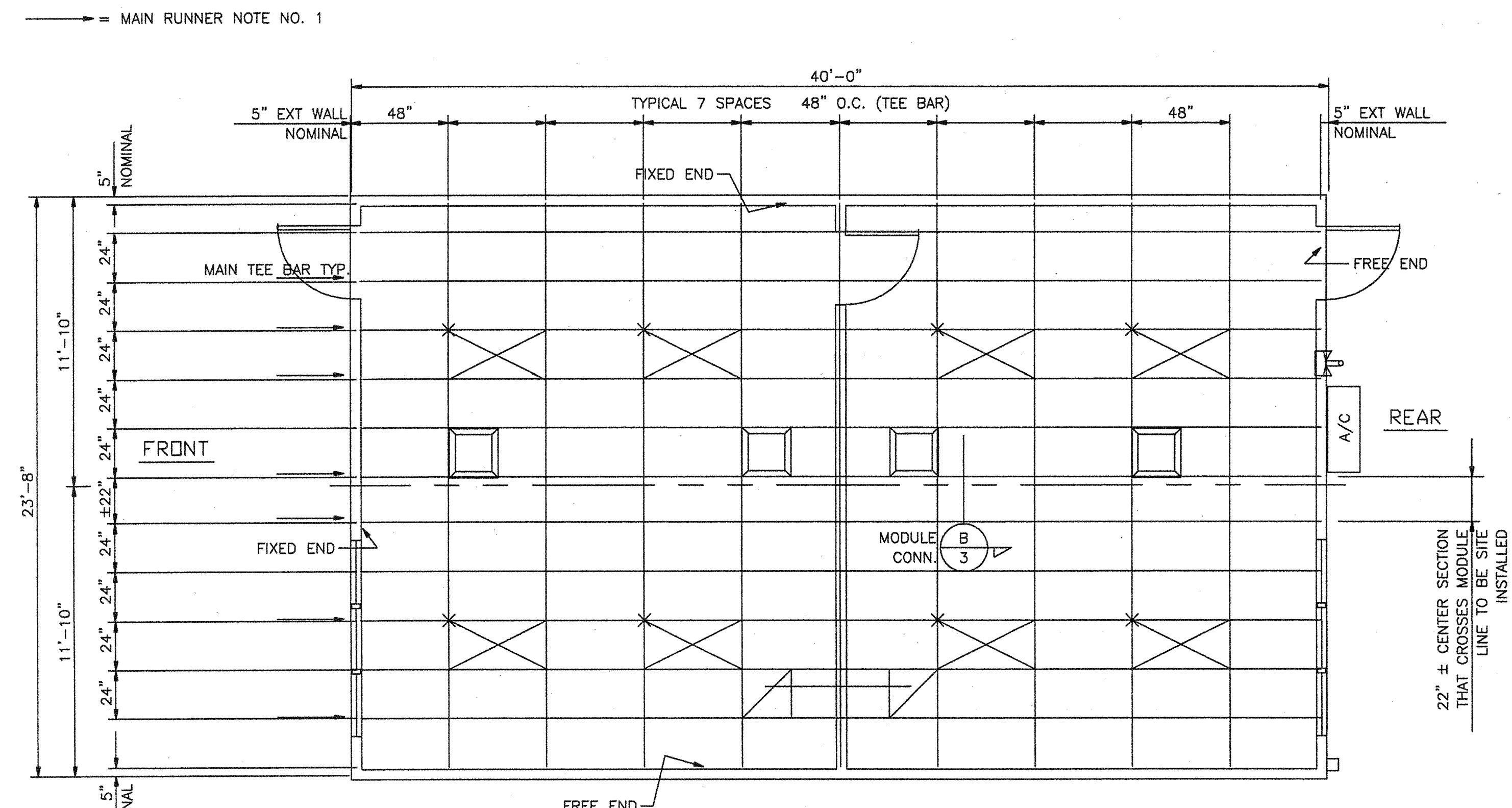
PROJECT No.
 SHEET No.
 3A



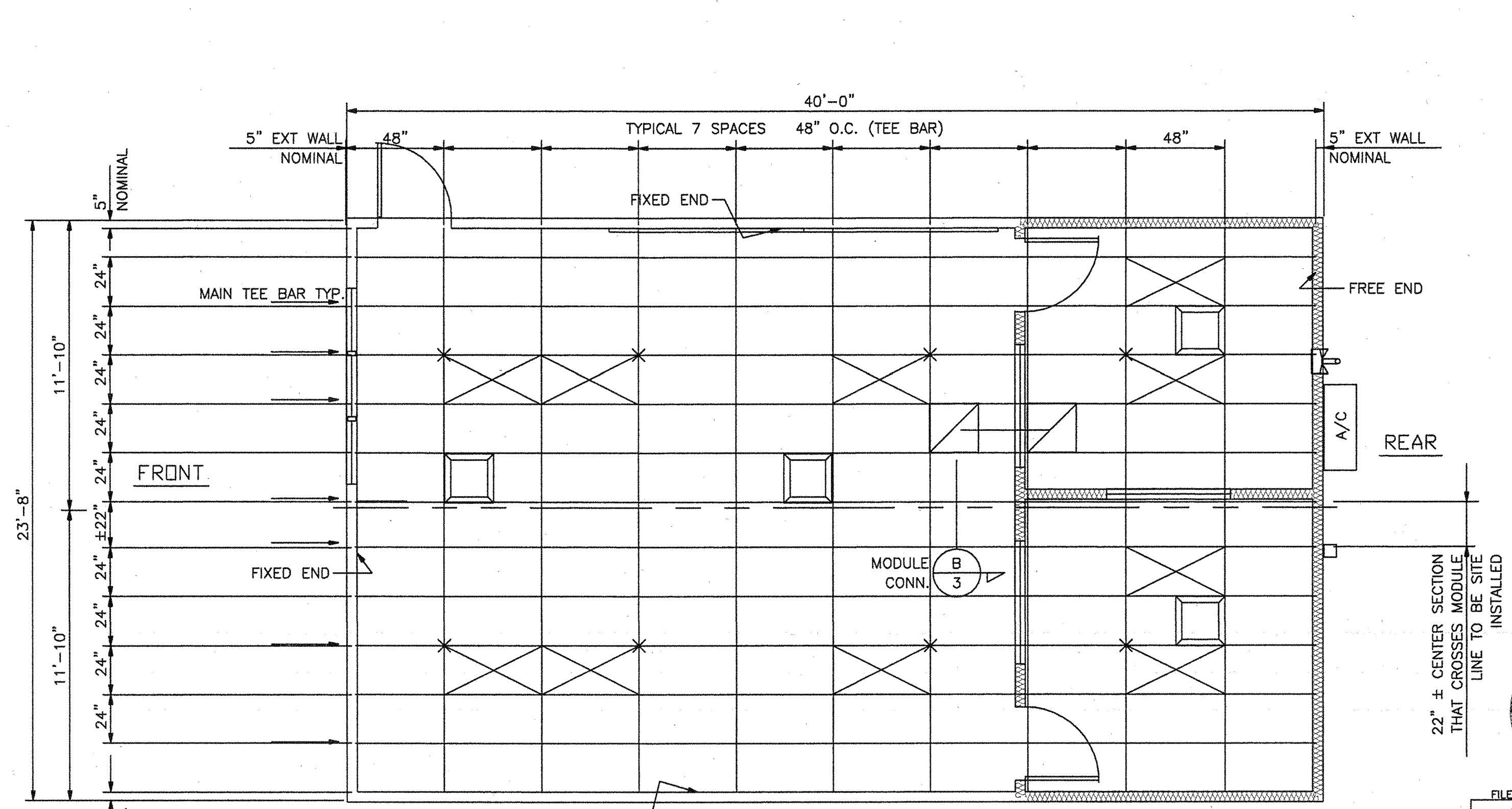
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 SERIAL # 05-100-754
 SCALE: 1/4"=1'-0"



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 SCALE: 1/4"=1'-0"

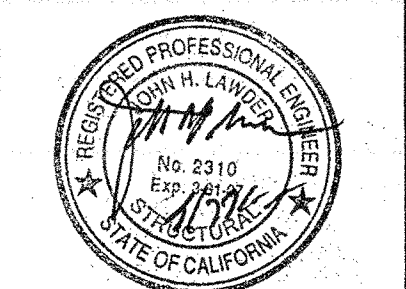


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 SERIAL # 05-100-750
 SERIAL # 05-100-751
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CEILING TEE BAR GRID LAYOUT WITH LIGHT FIXTURES Y1
 SERIAL # 05-100-756
 SCALE: 1/4"=1'-0"

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 APPL 01-117316
 DATE 1/10/18



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 AC. FLS. SS. 4/28/05
 DATE 4/28/05

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 CLASSROOMS



CUSTOMER:
 MOBILE MODULAR MANAGEMENT CORP.

CEILING GRID, DETAILS AND NOTES

DATE: 04/20/05
 SCALE: NONE
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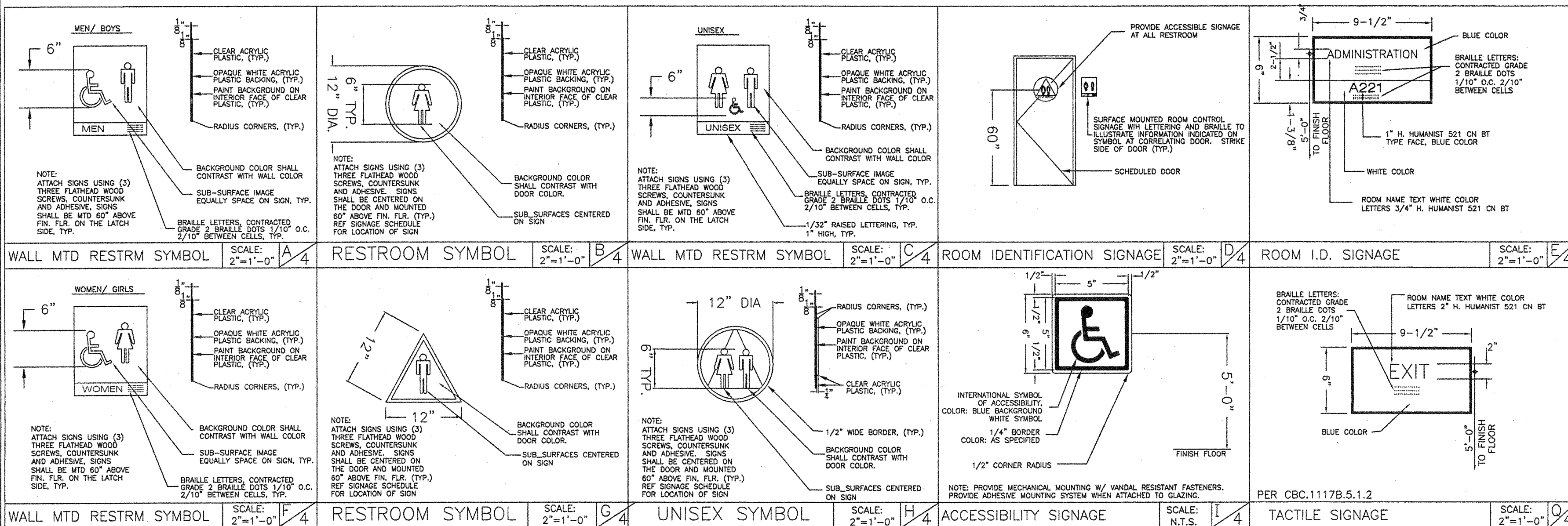
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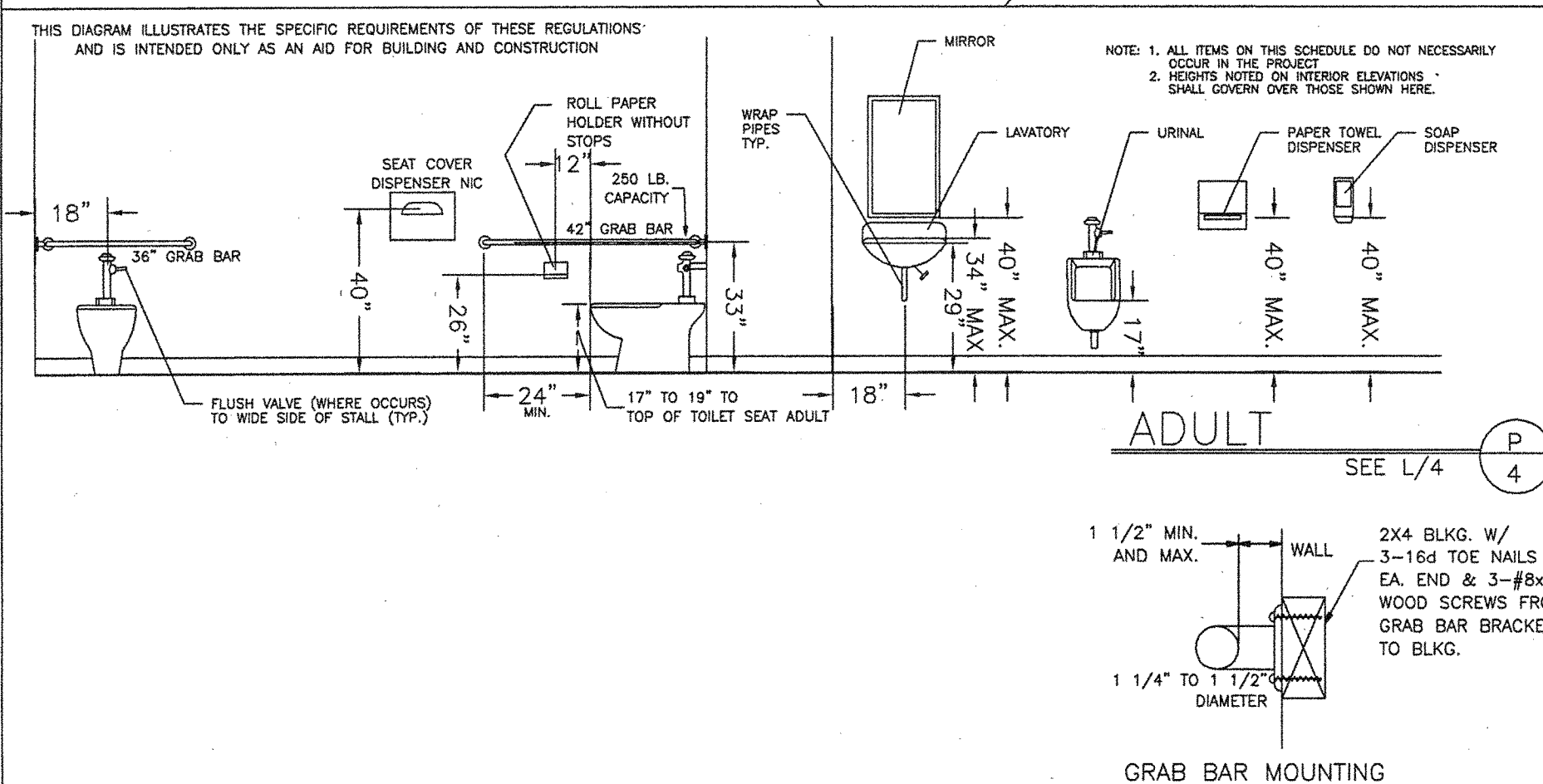
BASED ON PC 02-104915

ACCESSIBILITY SIGNAGE (AS REQUIRED-BY DISTRICT)

NOTE: PER CBC 1115.B.5 1-10 PLACE 12" ROUND OR TRIANGULAR SIGNS ON EACH TOILET ROOM DOOR @ ±80" ON THE WALL ON THE LATCH SIDE OF DOOR FRAME. THIS SIGN SHALL READ AS FOLLOWS.



ACCESSIBLE SANITARY FACILITIES (DETAILS)



DIMENSIONS FOR ACCESSIBILITY IN TOILET FACILITIES

FIXTURE TYPE	ADULT (AGE 12 AND OVER) DIMENSION	ELEMENTARY & PRE-SCHOOL DIMENSION	KINDERGARTEN & PRE-SCHOOL DIMENSION
TOILET CENTERLINE FROM WALL	18"	15"	12"
TOILET SEAT HEIGHT (TO TOP OF SEAT)	17"-19"	15"	10"-12"
GRAB BAR HEIGHT	33"	33"	10" ABOVE SEAT
TOILET PAPER IN FRONT OF TOILET	12" MAX.	12" MAX.	6" MAX.
DISPENSER OR MIRROR HEIGHT	40" MAX.	36" MAX.	32" MAX.
LAUNDRY/SINK TOP HEIGHT	34" MAX.	29" MAX.	24" MAX.
LAUNDRY/SINK KNEE CLEARANCE	27" MIN.	24" MIN.	22" MIN.
URINAL LIP HEIGHT	17" MAX.	15" MAX.	10" MAX.
URINAL FLUSH HANDLE HEIGHT	44" MAX.	38" MAX.	28" MAX.
DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX.	31" MAX.	24" MAX.
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	24" MIN.	22" MIN.
RAMP/STAIR HANDRAIL HEIGHT	34"-38"	27"	22"

ROOM FINISHES SCHEDULE

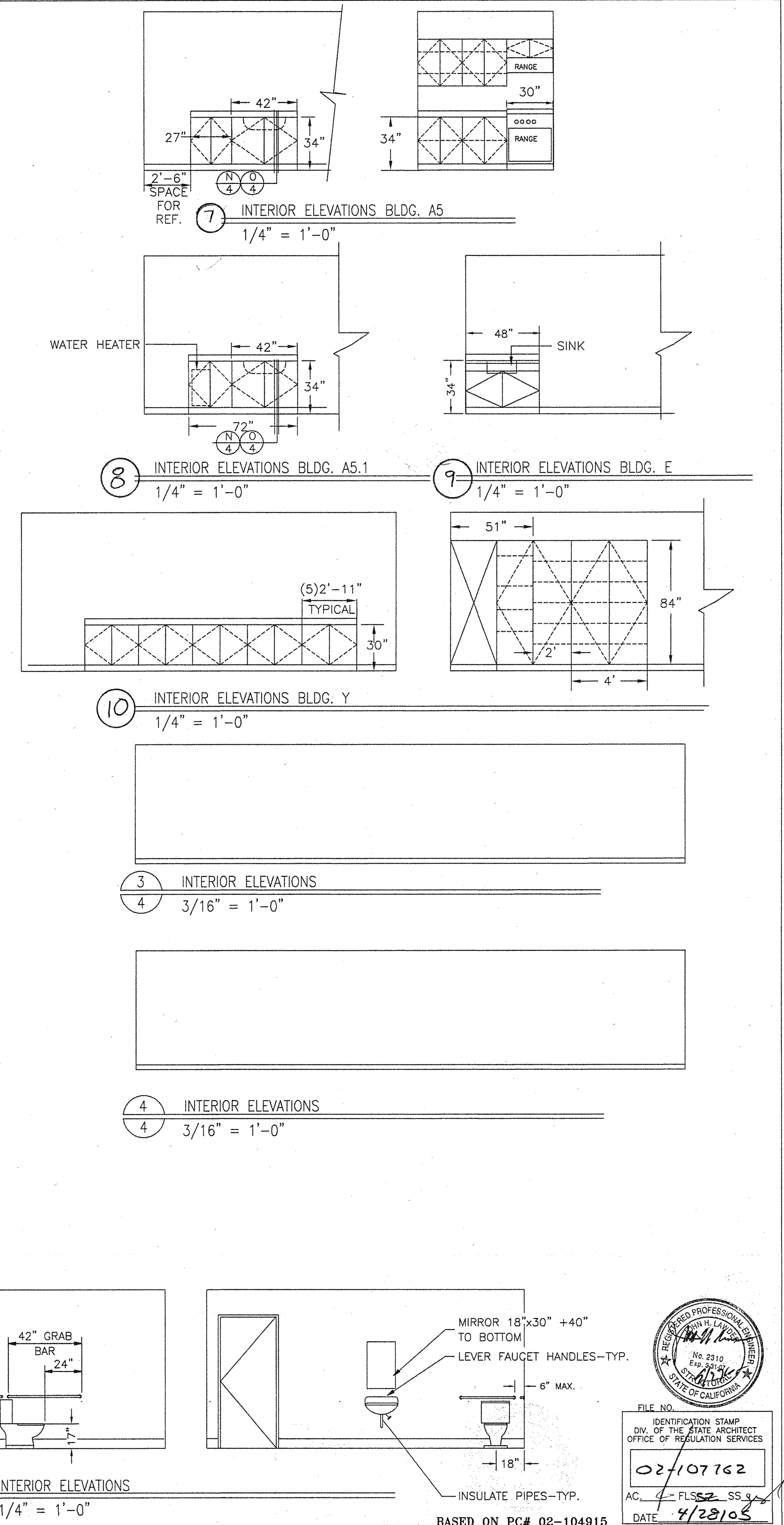
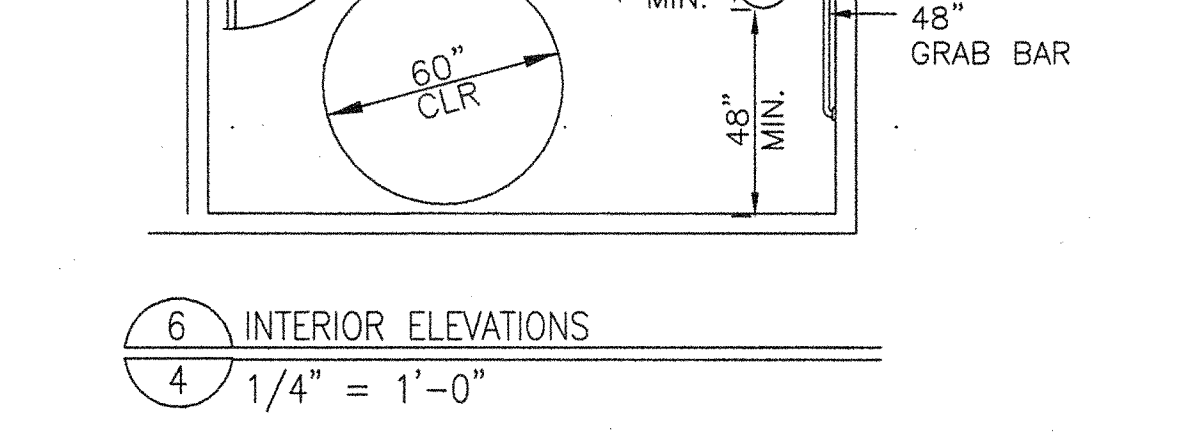
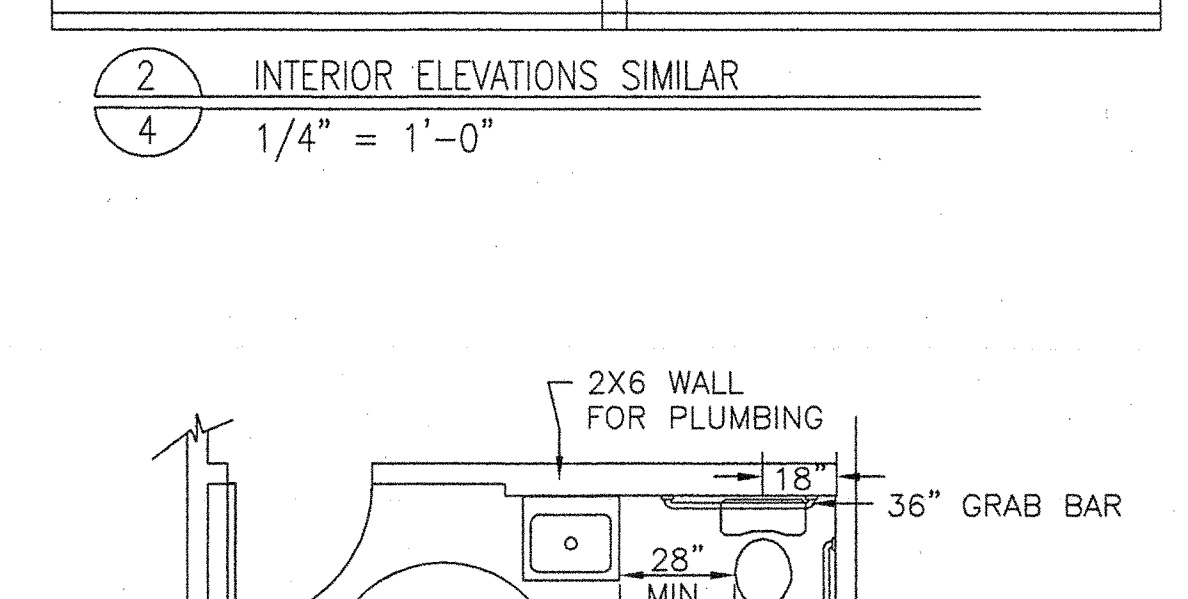
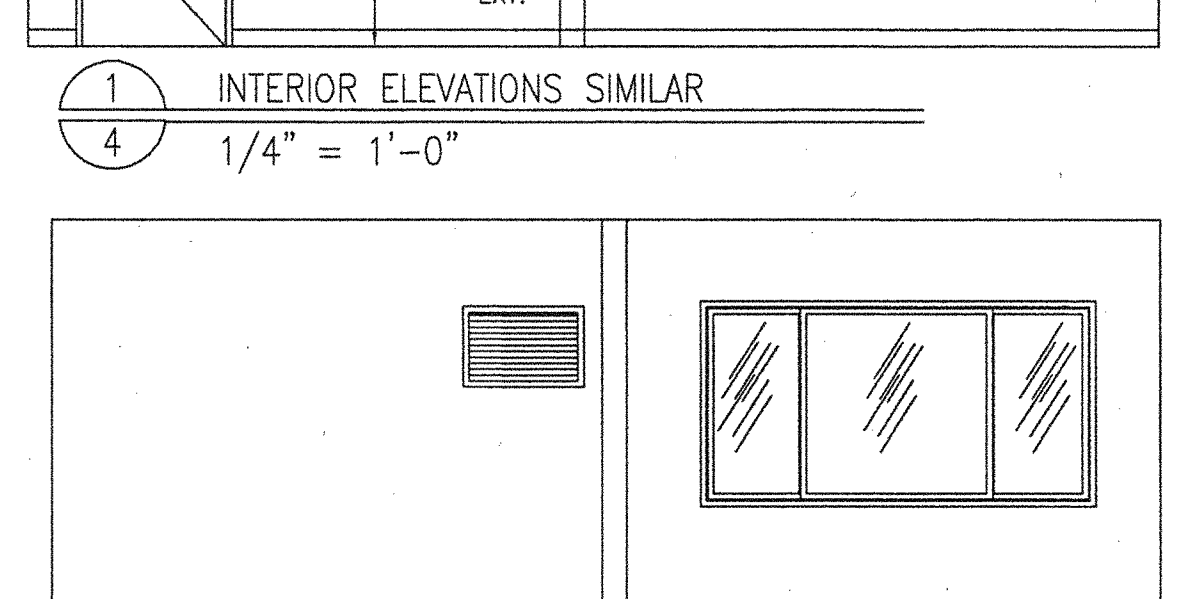
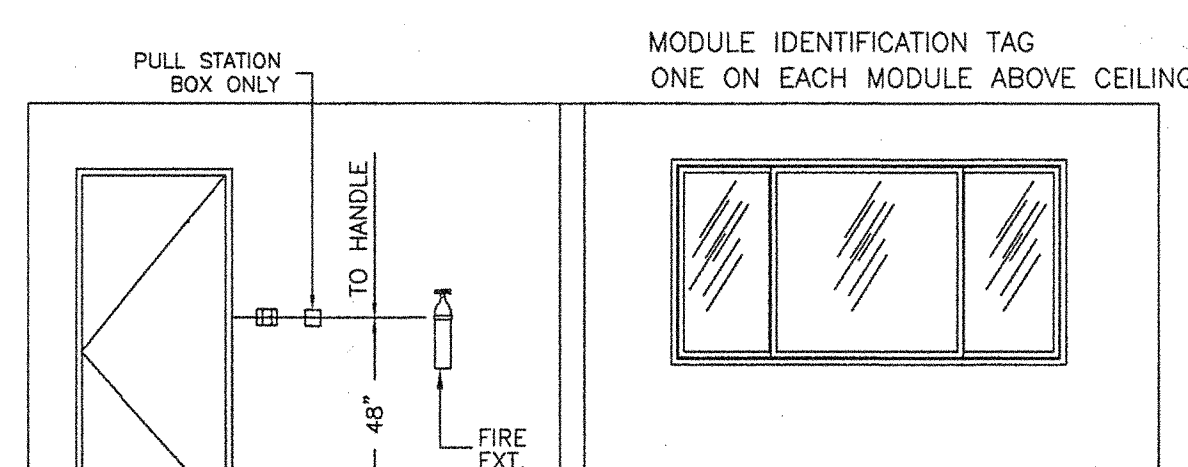
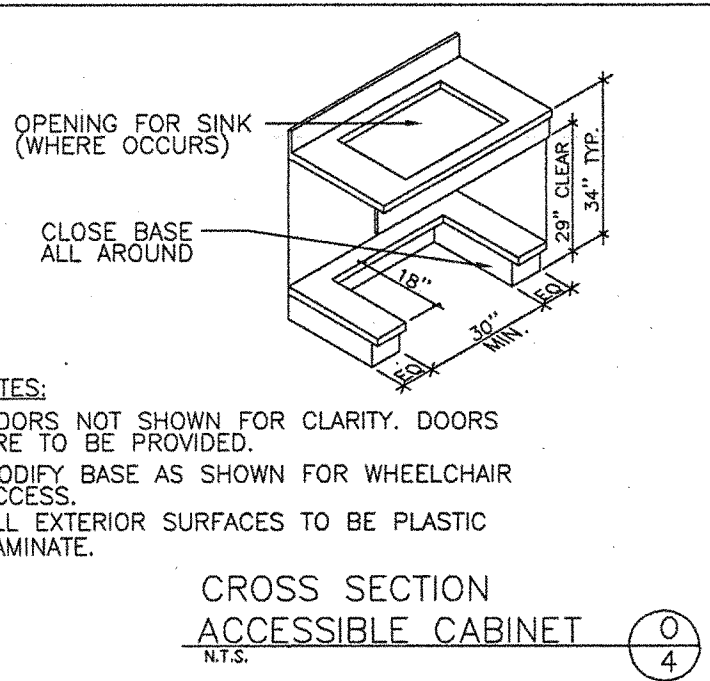
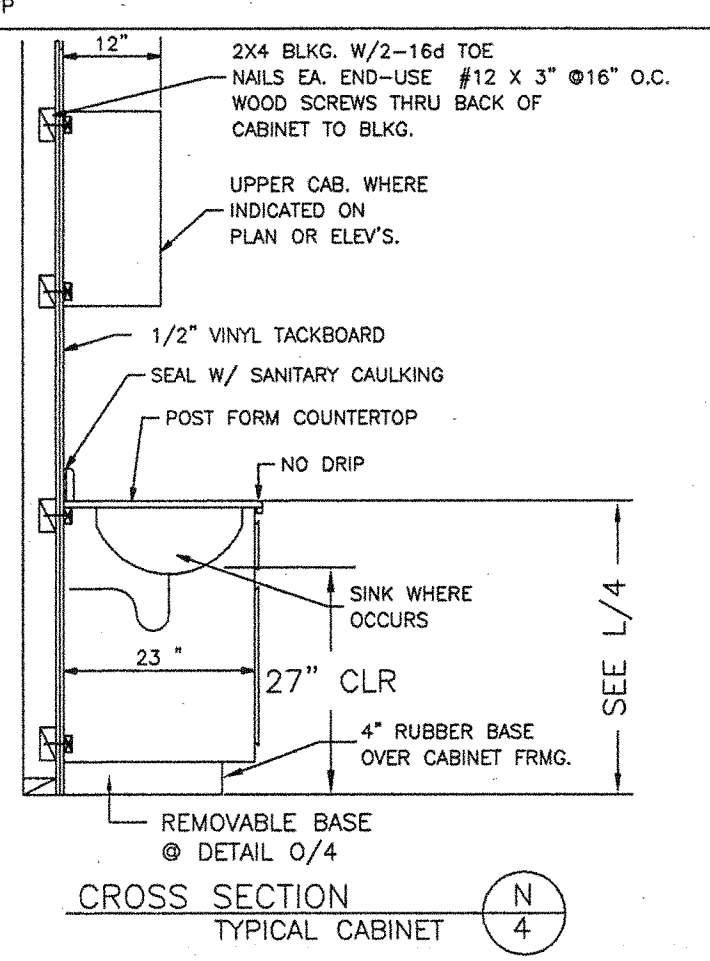
ROOM NUMBER	ROOM NAME	FLOOR	BASE	FRONT	REAR	RIGHT	LEFT	CEILING	CEILING HEIGHT	REMARKS
1	CLASSROOM	D	F	F	F	F	F	J	8'-6"	
2	TOILET RM.	B	E	I	I	I	I	J	8'-6"	

DOOR SCHEDULE SEE SHT. 1 FOR LOCATION

DOOR NO.	FRAME OPENING SIZE	MATERIAL	TYPE	RANKING	HARDWARE SET NO.	QUANTITY	MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	JAMB THROAT	NOTE NO.
1	3'-0" x 7'-0"	H.M.	N/A	A	1	H.M.	6/1	6/1	4/1	5/1		
2	3'-0" x 7'-0"	S.C.	N/A	C	1	H.M.	7/1	7/1				

WINDOW SCHEDULE SEE SHT. 1 FOR LOCATION

WINDOW NO.	AMT.	TYPE	WIDTH	HEIGHT	FINISH	GLASS TYPE
(A)	2	SLD.	8'-0"	4'-0"	BRONZE	SOLAR GREY
(B)	2	SLD.	6'-0"	4'-0"	BRONZE	SOLAR GREY
(C)	1	SLD.	4'-0"	4'-0"	BRONZE	SOLAR GREY
(D)	1	FIXED	5'-0"	4'-0"	BRONZE	SOLAR GREY



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CUSTOMER:
MOBILE MODULAR MANAGEMENT

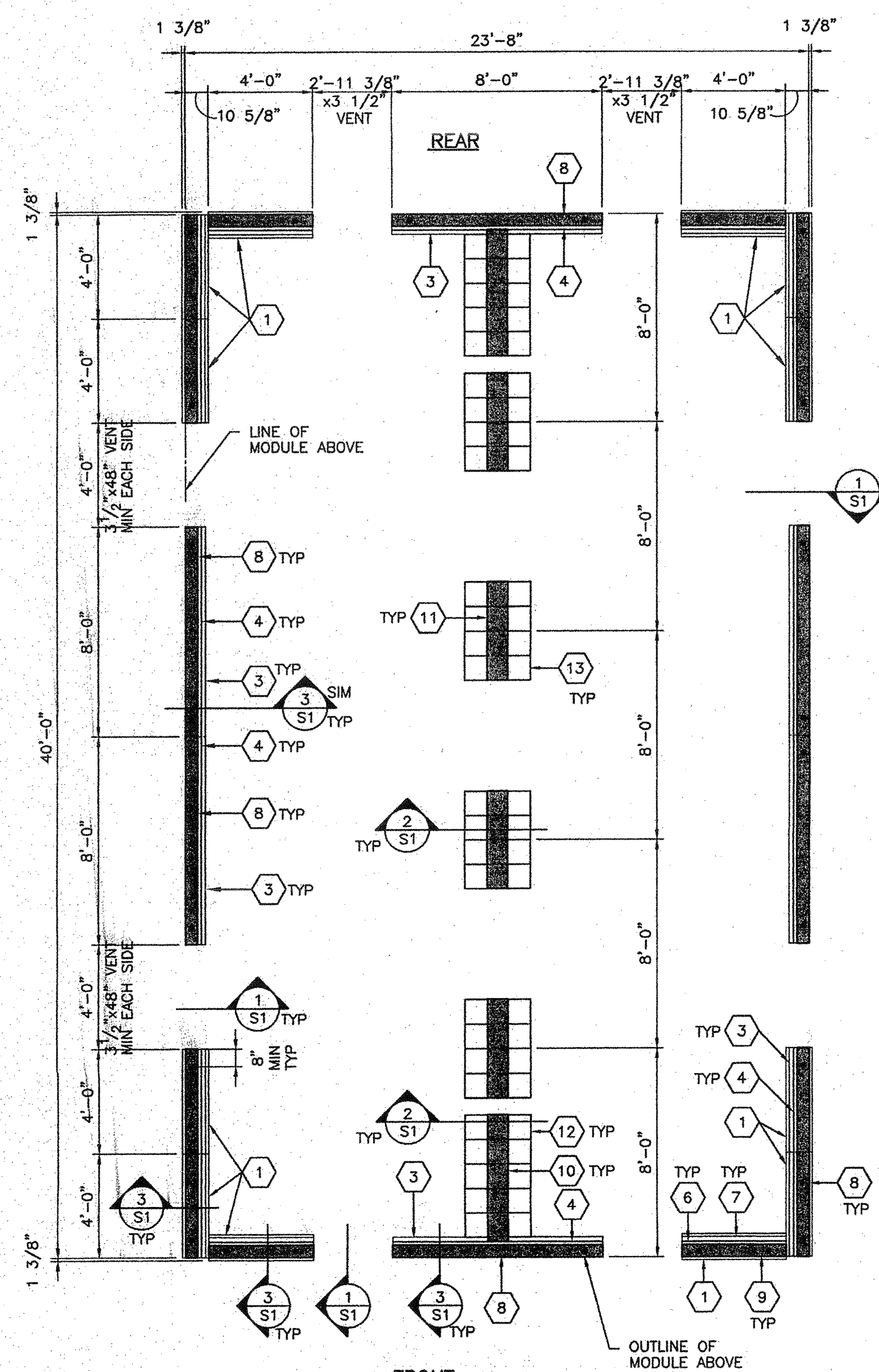
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INTERIOR ELEVATIONS AND OPTIONS



FOUNDATION PLAN
1/4" = 1'-0"

- LEGEND**
- 1 1/2"x12" WIDE x 48" LONG, UNO ON PLAN, PT STRUCTURAL PLYWOOD W/ FACE GRAIN IN SHORT DIRECTION (CDX PLYWOOD)
 - 2 NOT USED
 - 3 2x10x8'-0" LONG, UNO ON PLAN, PT R, ALT. 2x10 REDWOOD
 - 4 2x8x8'-0" LONG, UNO ON PLAN, R
 - 5 NOT USED
 - 6 2x8x4'-0" LONG, UNO ON PLAN, R
 - 7 2x10x4'-0" LONG, UNO ON PLAN, R (PT R WHERE PLYWOOD DOES NOT OCCUR)
 - 8 MULTIPLE 2x6x8'-0" LONG, UNO ON PLAN, AS REQ'D FOR HEIGHT
 - 9 MULTIPLE 2x6x4'-0" LONG, UNO ON PLAN, AS REQ'D FOR HEIGHT
 - 10 2x10 R W/ SHIM, SEE 2/S1
 - 11 2x10 BLKG, SEE 2/S1
 - 12 (4) 2x12x2'-0" PT R OR (3) 2x10x2'-0" PT R OR (6) 2x8x2'-0" PT R, SEE 2/S1
 - 13 (4) 2x12x2'-0" PT R OR (4) 2x10x2'-0" PT R OR (5) 2x8x2'-0" PT R, SEE 2/S1
 - 1" Ø GALV. PIPE LOCATIONS-TYPICAL

- NOTES:**
- TOP OF WOOD PADS TO BE LEVEL
 - DO NOT INSTALL BUILDINGS IN AREAS OF WATER LINES.
 - SITE TO BE GRADED TO PREVENT WATER PONDING BENEATH THE STRUCTURE.
 - FOUNDATION PLYWOOD TO BE CUT PERPENDICULAR TO THE FACE GRAIN.
 - PER THE CONTRACT OF THIS PROJECT-THE BUILDING PAD MUST BE A MINIMUM OF 30'x50' AND SHALL NOT EXCEED 6" OUT OF LEVEL IN ANY DIRECTION.
 - VENT AREA REQUIRED=($\frac{600}{100}$)=6.4 SF VENT AREA PROVIDED=6.4 SF

- SILL RESTRAINT:**
- ON SOIL: 1" Ø HOT DIPPED GALV PIPE W/ 12" MIN PENETRATION BELOW SOIL SURFACE @ 10'-0" OC, MIN 2 EA 2x R. DRILL SILL 1 1/4" MAX. PIPE MAY BE DRIVEN MAX 45° ANGLE TO VERTICAL.
- ON A/C PAVING: 1" Ø HOT DIPPED GALV PIPE W/ 12" MIN PENETRATION BELOW PAVING SURFACE @ 10'-0" OC, MIN 2 EA 2x R. DRILL SILL 1 1/4" MAX. ALT. 804 HOT DIPPED GALV NAILS THRU PREDRILLED SILL R @ 32" OC.
- ON CONC PAVING: 1" Ø HOT DIPPED GALV PIPE W/ 12" MIN PENETRATION BELOW PAVING SURFACE @ 10'-0" OC, MIN 2 EA 2x R. DRILL SILL 1 1/4" MAX. ALT. 1/2" HILT. KBT'S THRU SILL R W/ 3/2" MIN CONC EMBEDMENT @ 5'-0" OC MAX.

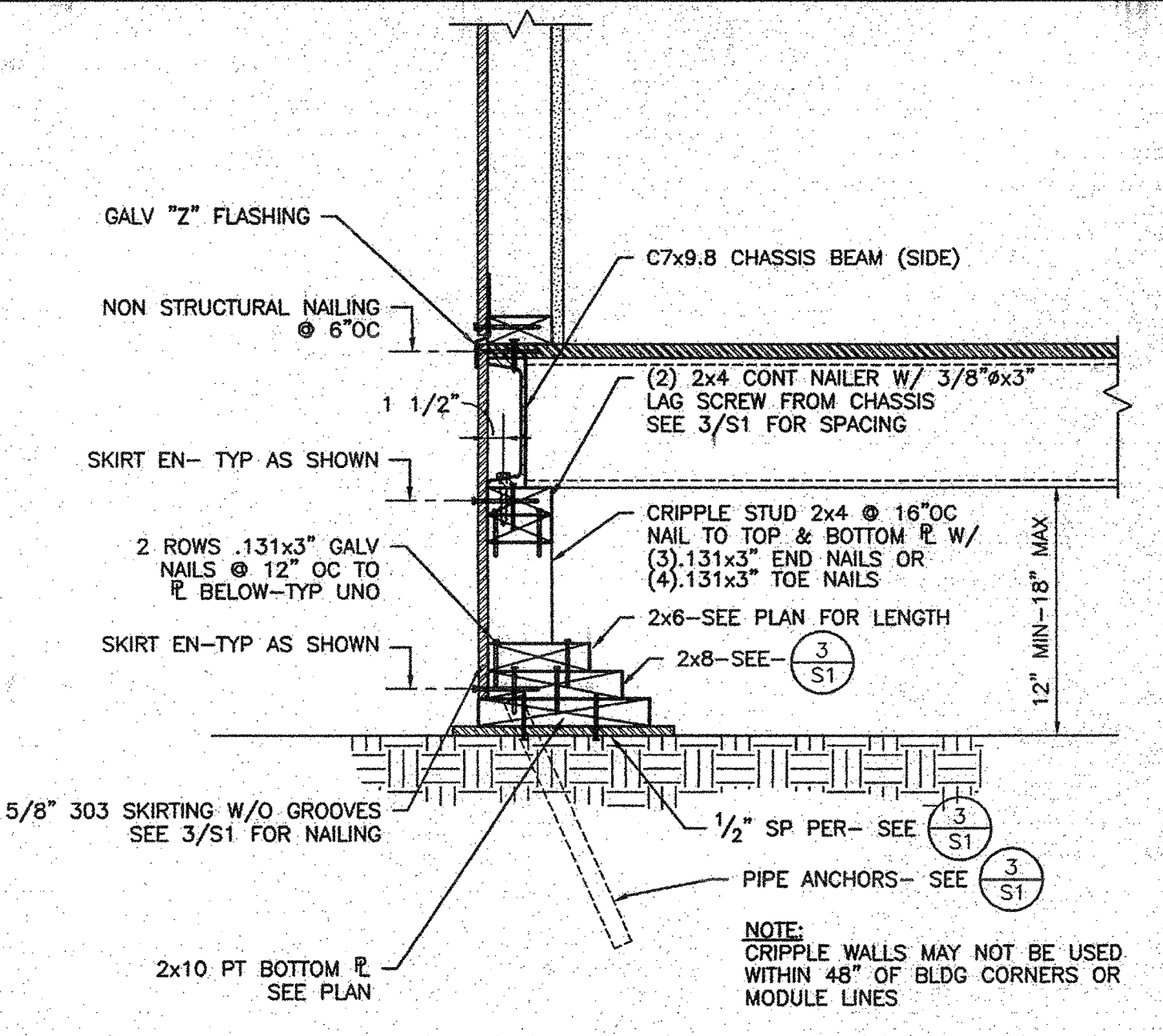
FOUNDATIONS:

ALL FOUNDATION MATERIALS IN CONTACT WITH THE GROUND SHALL BE PRESSURE TREATED EXCEPT SHIMS MAY BE REDWOOD, HEM FIR OR CEDAR. PRESSURE TREATED DOUGLAS FIR, HEM FIR, PLYWOOD ETC. SHALL BE VERIFIED BY A CERTIFICATE OF TREATMENT STATING: "THE MATERIAL IN THIS UNIT WAS TREATED PER 2001 CALIFORNIA BUILDING CODE. ALL MATERIAL FOR USE IN GROUND CONTACT SHALL BE STAMPED "FOR GROUND CONTACT" (LP22). ALL MATERIAL NOT USED IN GROUND CONTACT SHALL BE HPF2 OR DF2 "FOR ABOVE GROUND USE." THE IN-PLANT INSPECTOR SHALL VERIFY THAT ALL PRESSURE TREATED FOUNDATION MATERIAL IS CUT FROM AWPB STAMPED STOCK AND THAT ALL CUTS AND HOLES ARE RE-TREATED PER SPECIFICATIONS. LP-2 AND LP-22 MATERIAL SHALL BE Banded SEPARATELY FOR SHIPMENT TO THE JOB SITE. THE IN-PLANT INSPECTOR'S VERIFICATION OF EACH Banded UNIT SHALL BE ATTACHED TO THE MATERIAL. CONCRETE OR CONCRETE BLOCK FOUNDATIONS ARE NOT ALLOWED. THE FOOTING DESIGN SHALL PROVIDE FOR SHIMS AND BLOCKS NECESSARY TO PERMIT INSTALLATION ON SITES NOT LEVEL, BUT WITHIN TOLERANCE ALLOWED. INSTALLATION SHALL BE PERMITTED ON EITHER SOIL, CONCRETE OR A/C PAVING, HAVING SUITABLE DESIGN BEARING CAPACITY. THE BUILDINGS SHALL BE SECURELY FASTENED TO THE FOUNDATIONS. THE FOUNDATIONS AND THE METHOD OF FASTENING SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT AND DCA. PADS SHALL BE DESIGNED FOR A MAXIMUM OF 1000 PSF LOAD ON THE SOIL. PADS SHALL NOT BE PLACED ON TURF.

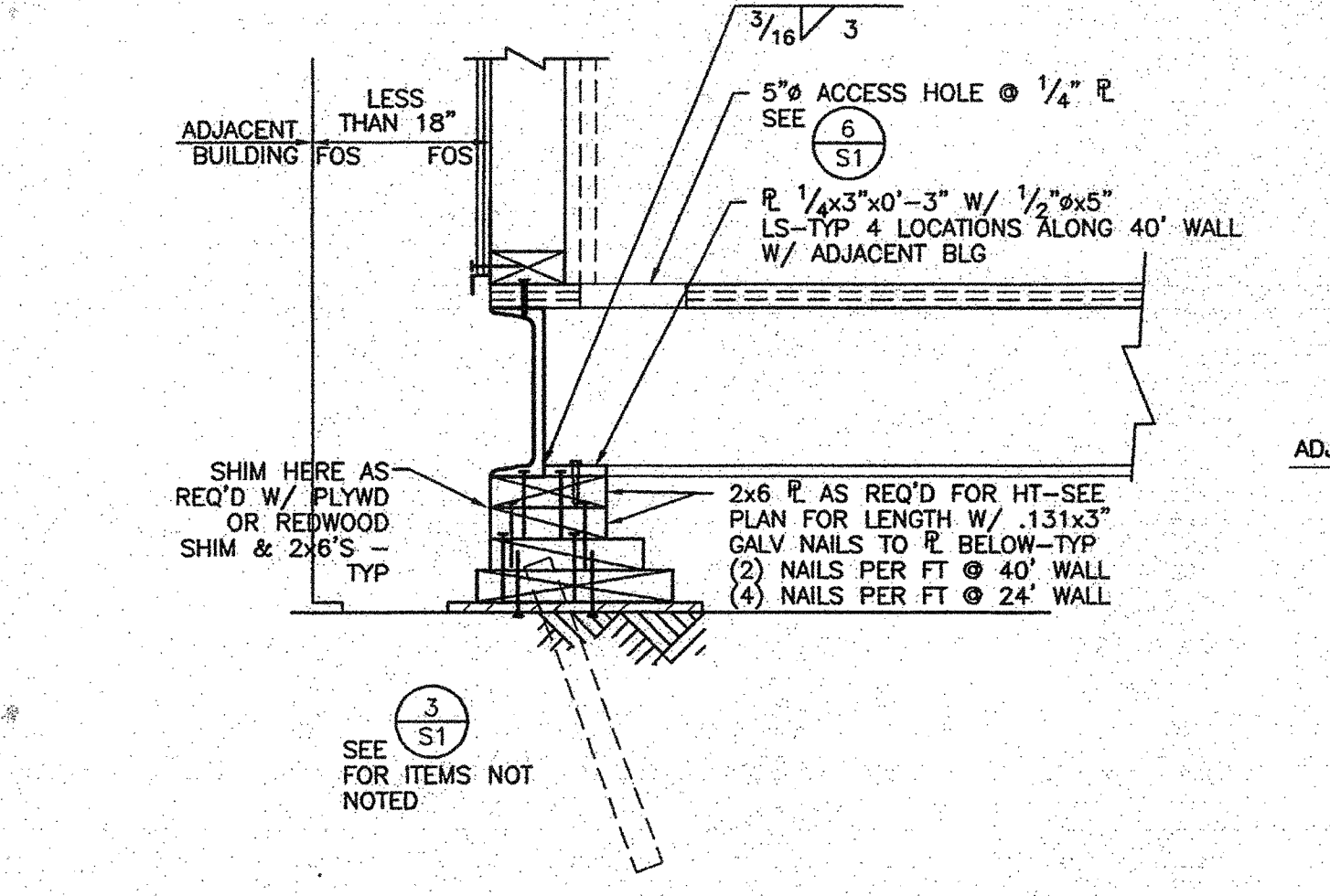
24 x 40
RELOCATABLE
CLASSROOM

CUSTOMER: _____

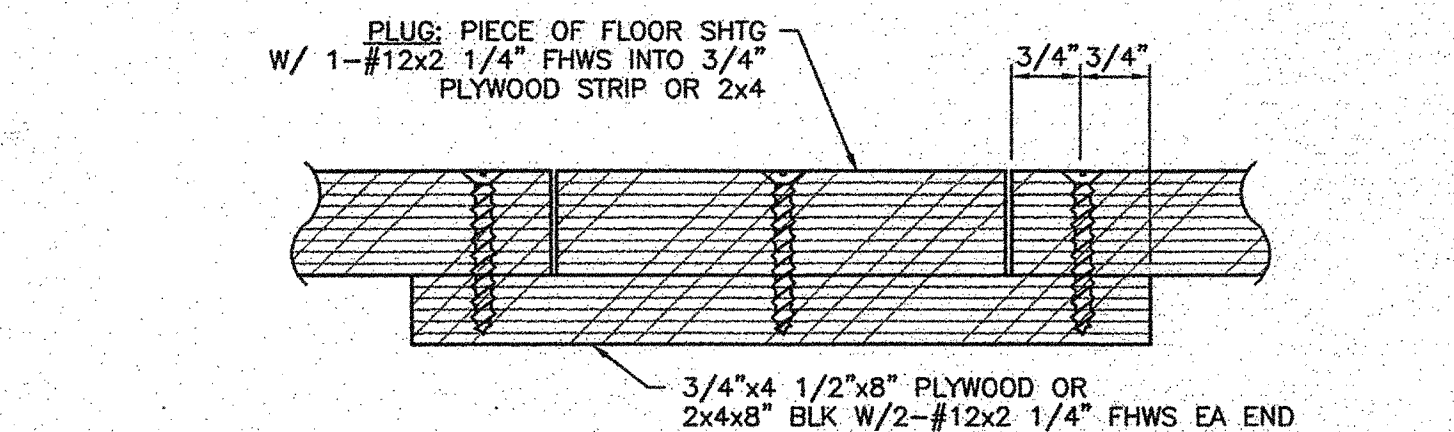
WOOD FOUNDATION PLAN & DETAILS
50 PSF FLOOR LIVE LOAD



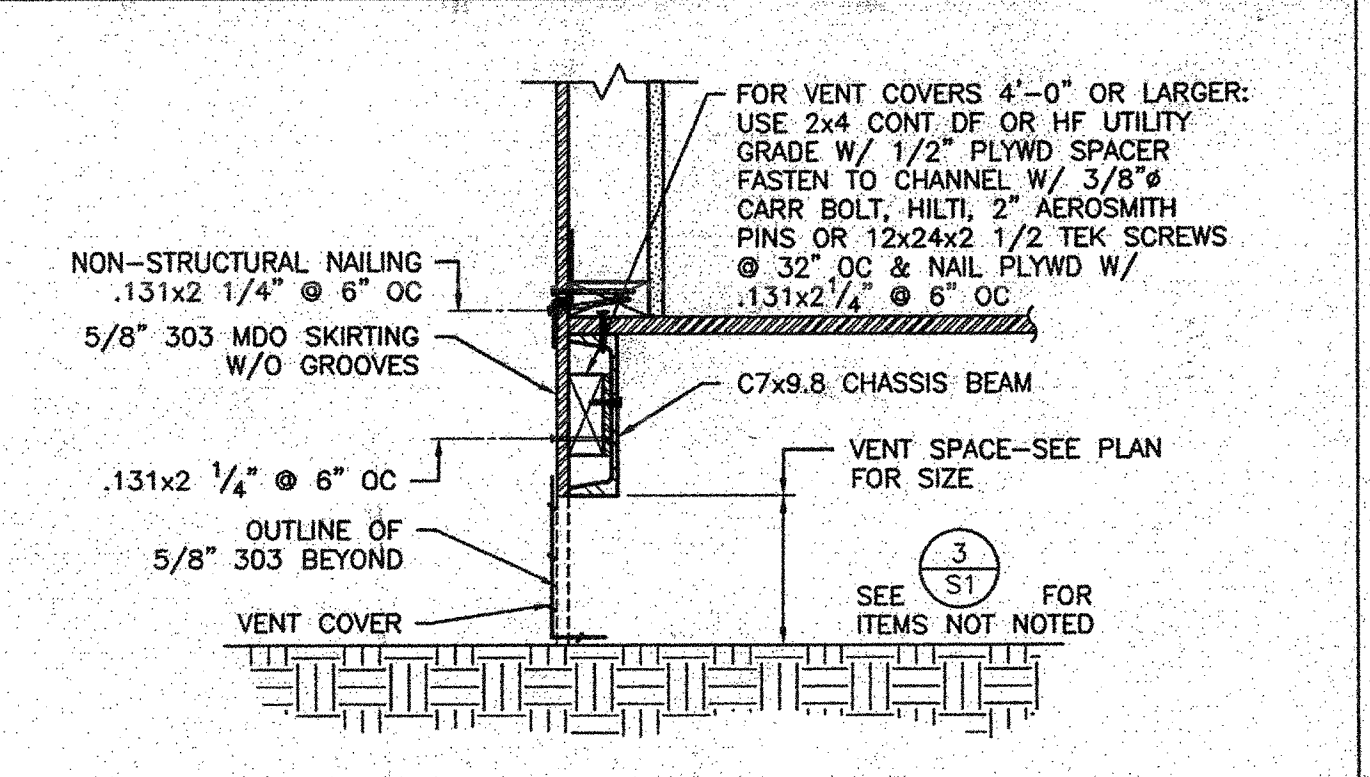
FOUNDATION DETAIL
1 1/2" = 1'-0"



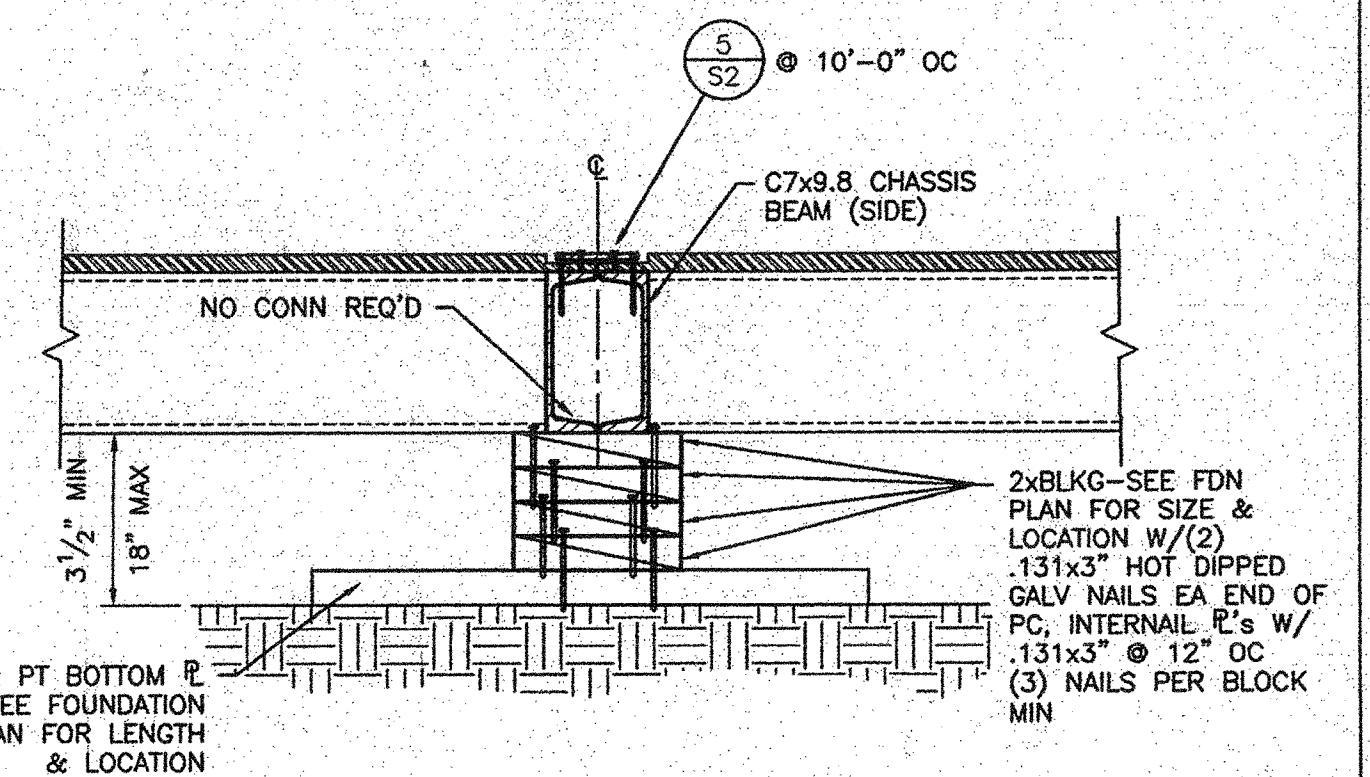
FOUNDATION DETAIL
1 1/2" = 1'-0"



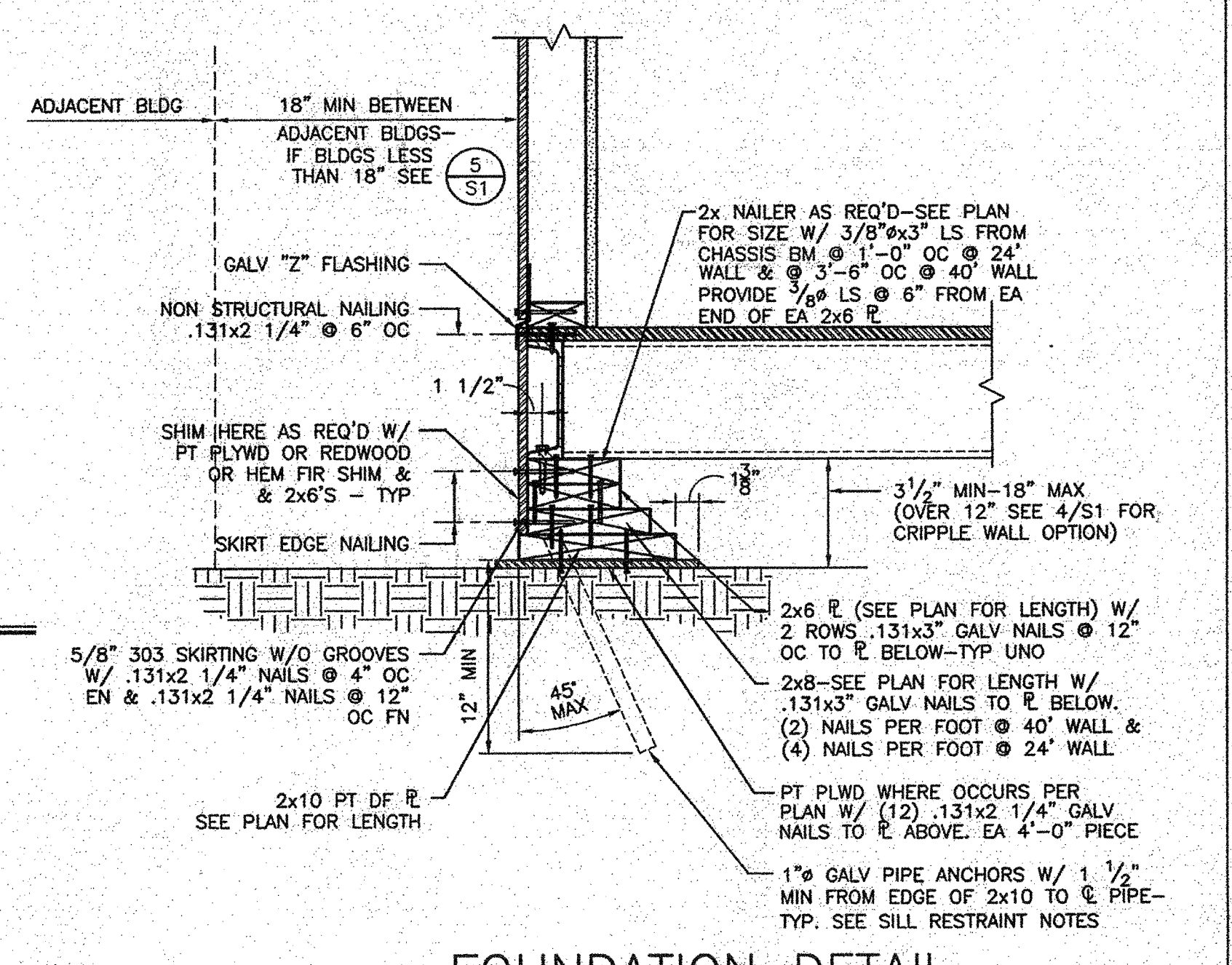
DETAIL
NO SCALE



FOUNDATION DETAIL
1 1/2" = 1'-0"



DETAIL
1 1/2" = 1'-0"



FOUNDATION DETAIL
1 1/2" = 1'-0"

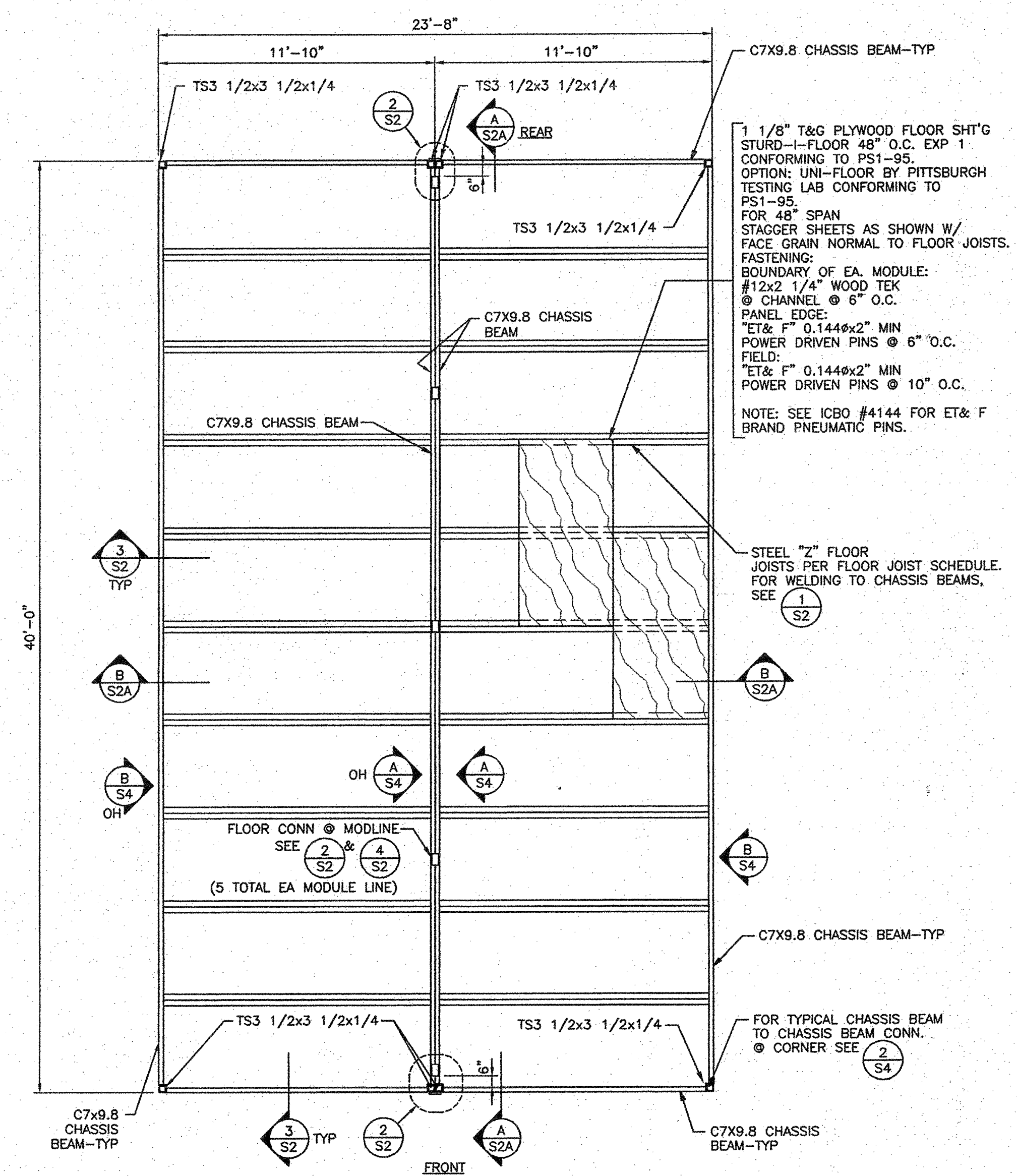
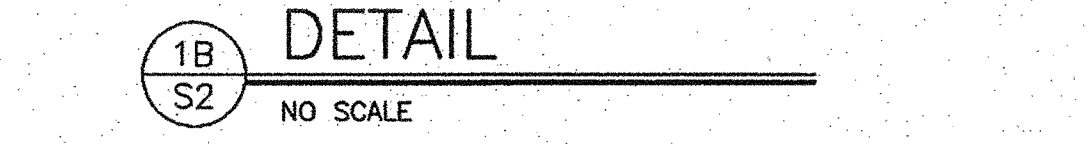
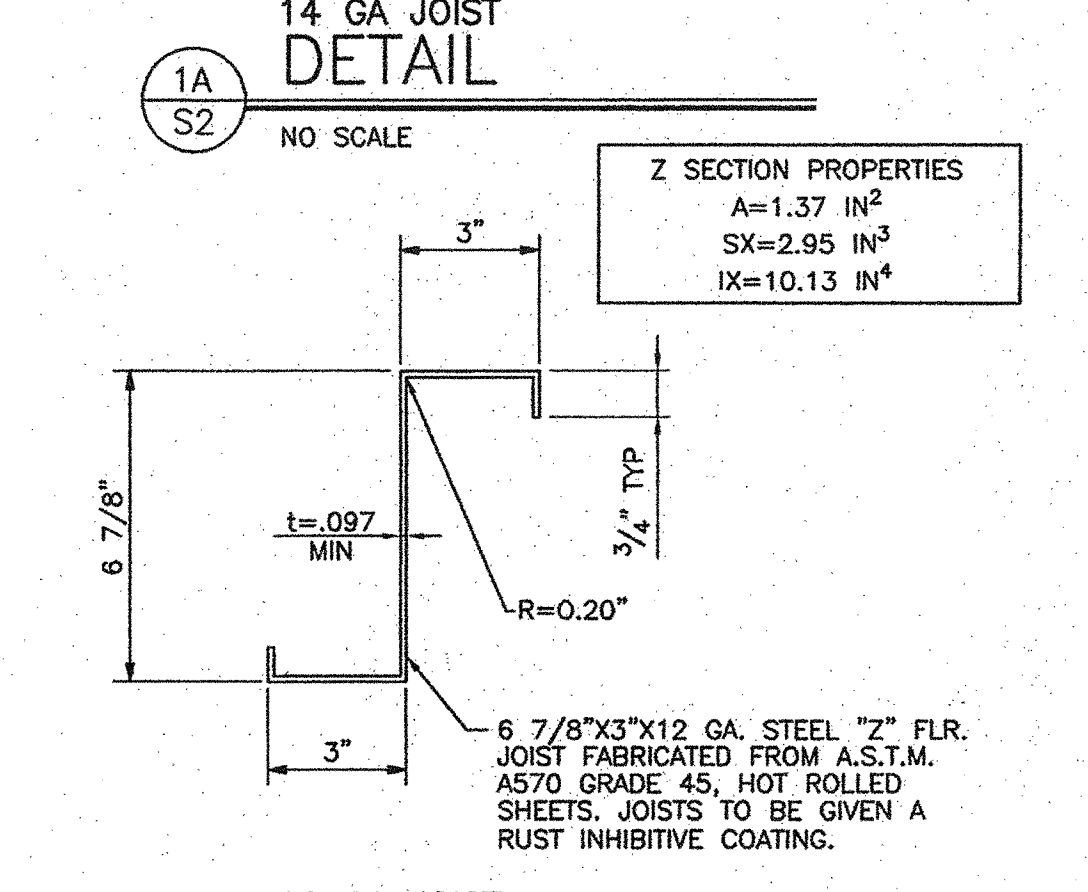
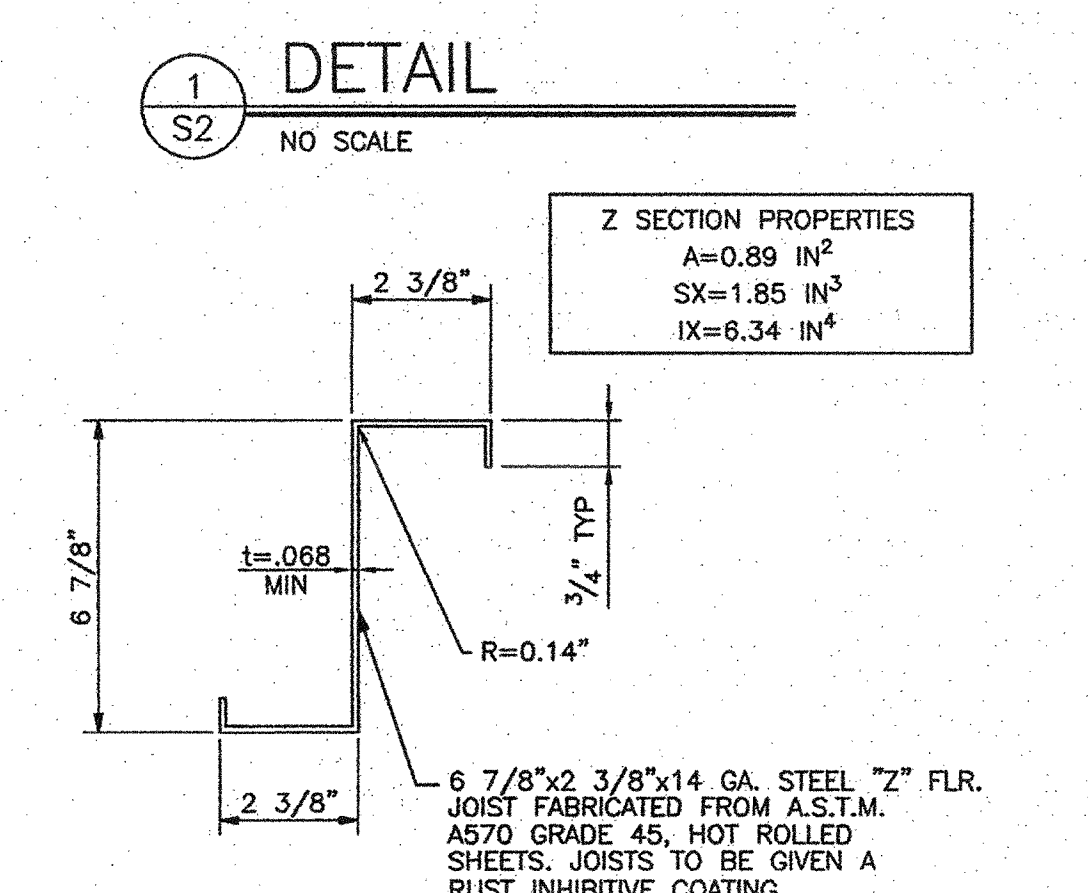
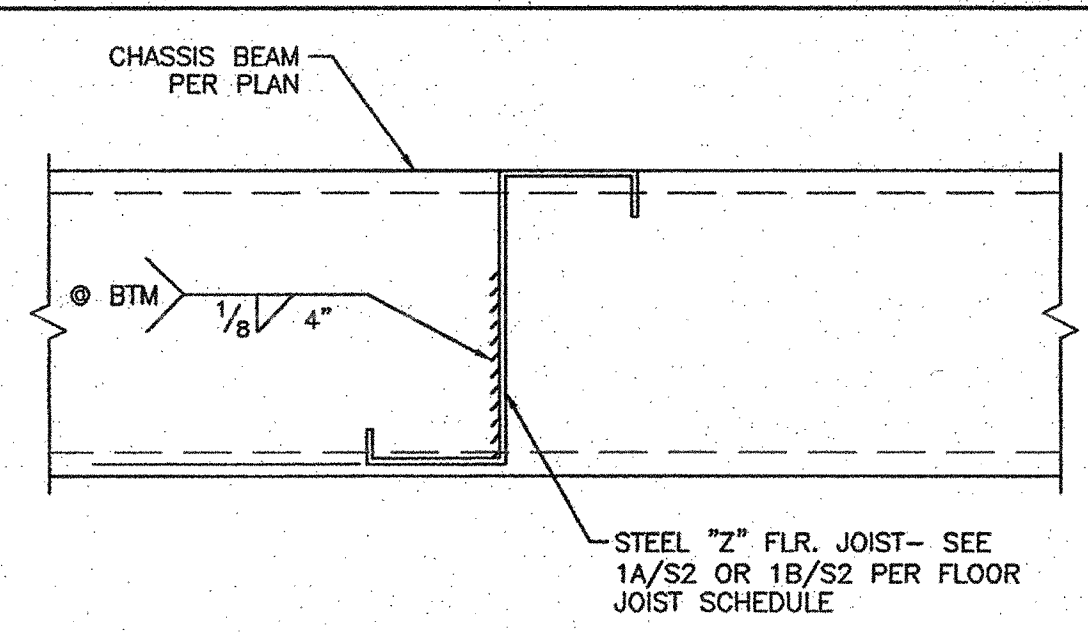
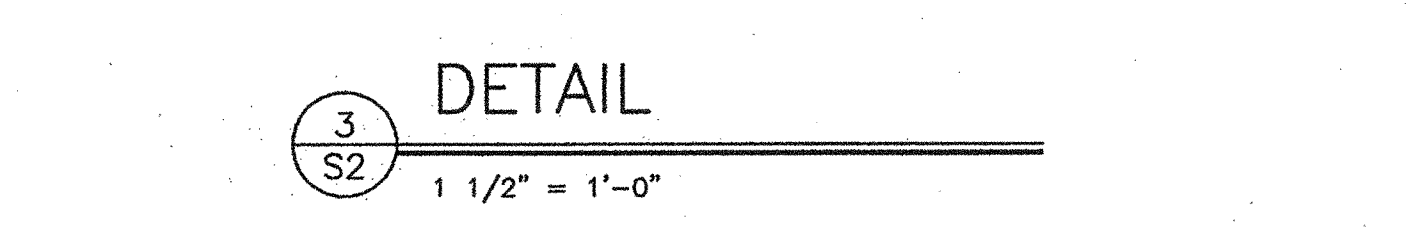
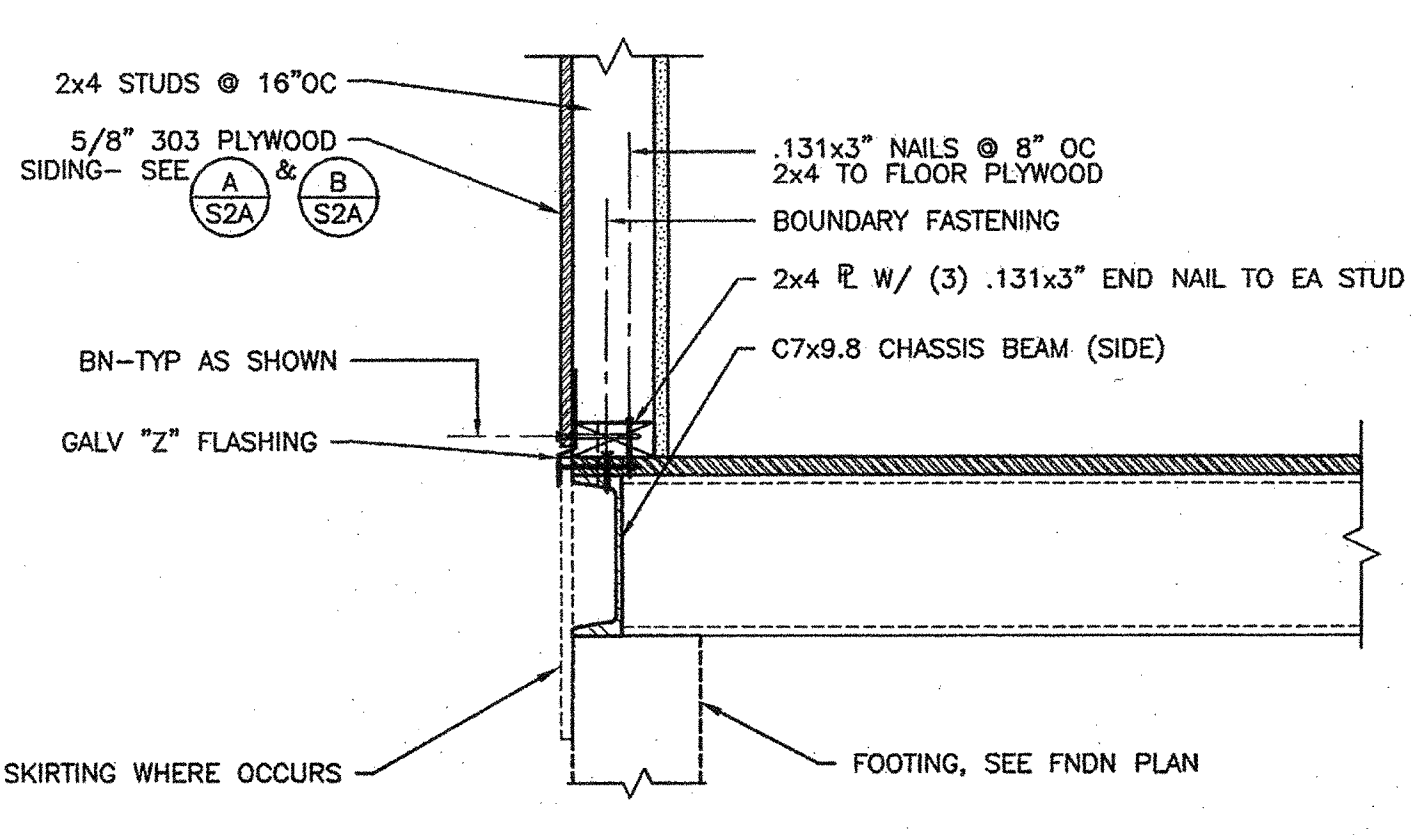
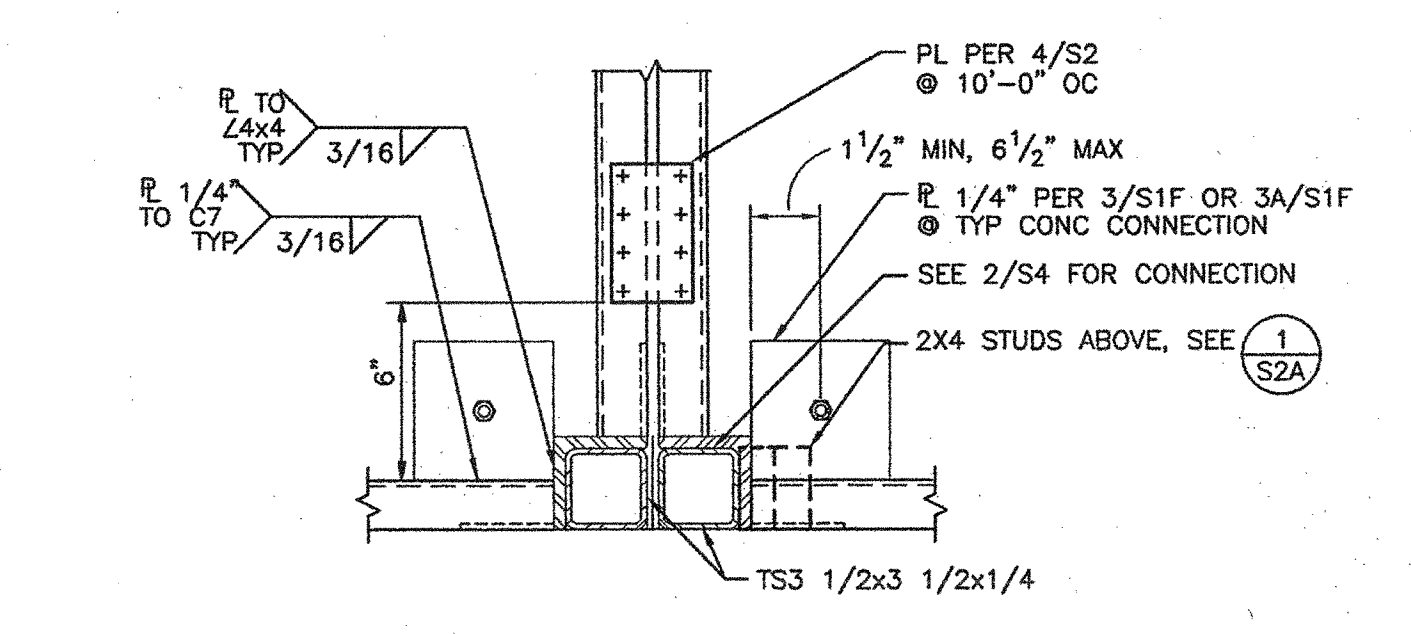
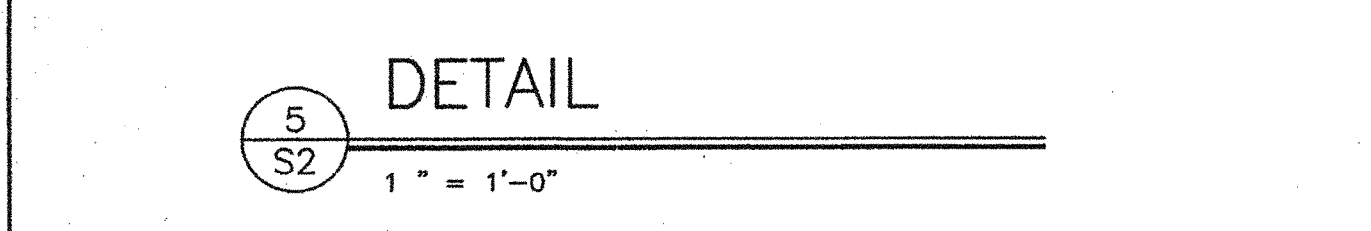
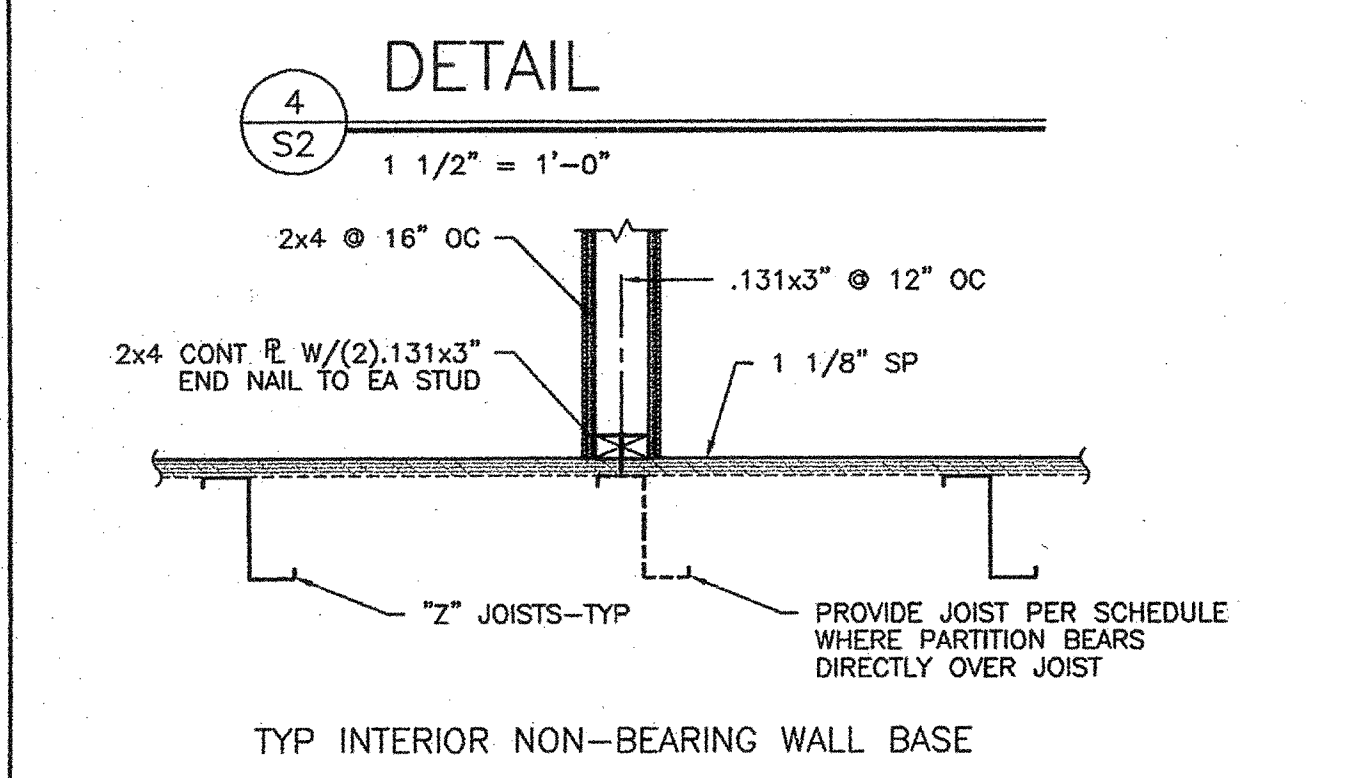
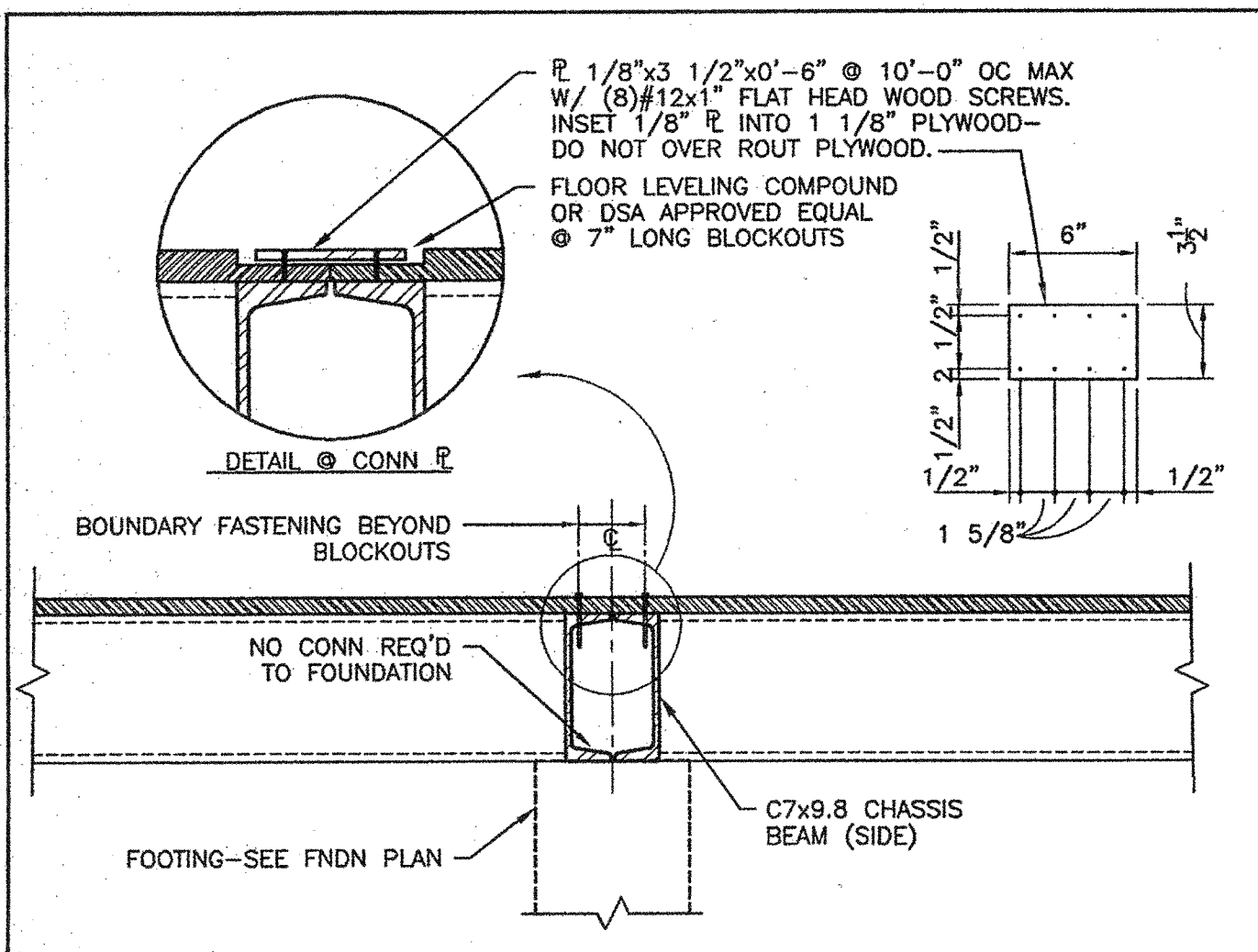
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DIVISION OF THE STATE ARCHITECT
APPL 01-117316
ACS FILE NO. 1110118
DATE 4/28/05

2001 CBC FILE NO. PC
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPLICATION NO. 02-104615
DATE 4/28/05

DATE: 5/30/03
SCALE: AS NOTED
DRAWN BY: REM
DESIGNED BY: MDB
CHECKED BY: KAL
SERIAL NO. _____

REVISIONS	
NO	DESCRIPTION

PROJECT No.
02156-01
SHEET No.
S1



NOTES:
1. SEE SHEET S4 FOR TYPICAL WALL FRAMING.

FLOOR FRAMING PLAN
1/4" = 1'-0"

LIVE LOAD	SPACING	
	14 GA JOIST	12 GA JOIST
50 PSF	48" OC	48" OC
50+20 PSF	24" OC	48" OC
100 PSF	24" OC	24" OC
125 PSF	24" OC	24" OC

NOTES:
1. FOR JOISTS SEE 1A/S2 AND 1B/S2.
2. SPACING IS TO CENTER LINE OF TOP FLANGE.
3. PROVIDE 12 GA JOIST WHERE PARTITION BEARS DIRECTLY OVER JOIST.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
DATE 1/10/18

P:\021561\01\040\STRUC\S2.dwg Time: 1/10/18 10:52:03 AM Logon: janderson1 Dim: 361 L1 Scale: 24

24 x 40
RELOCATABLE
CLASSROOM

CUSTOMER: _____

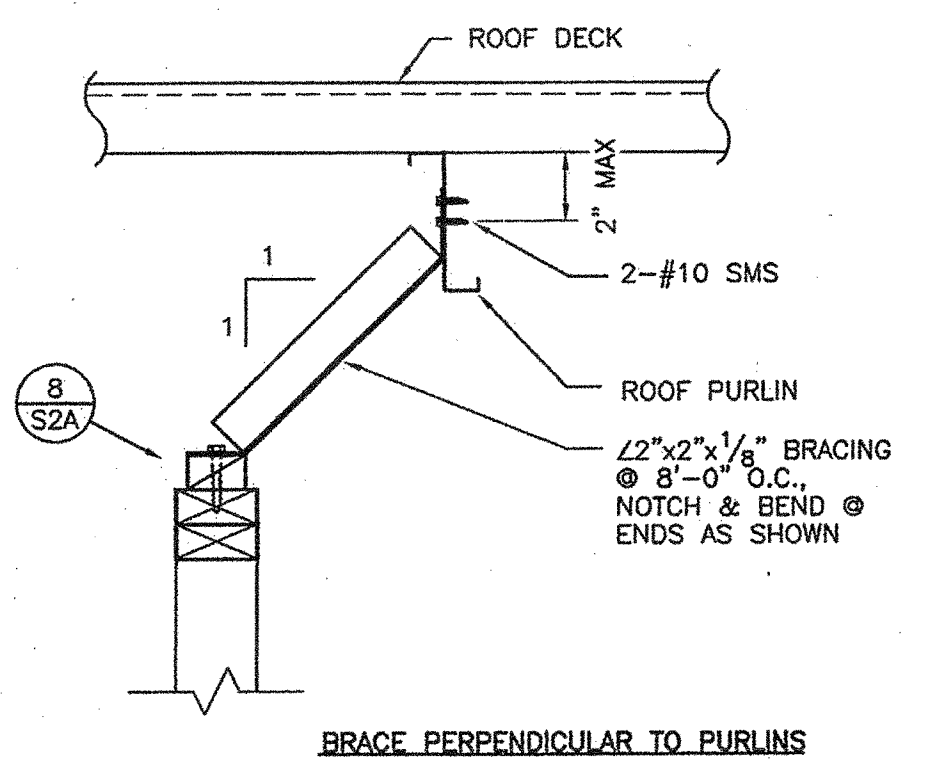
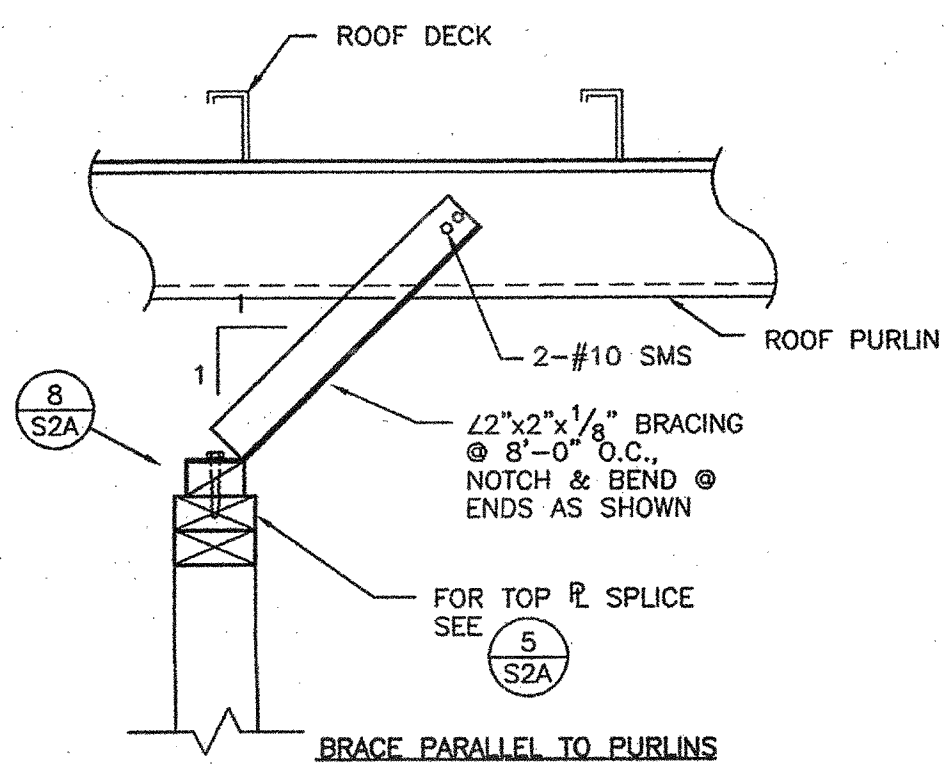
FLOOR FRAMING PLAN AND DETAILS

DATE: 9/30/03
SCALE: AS NOTED
DRAWN BY: REM
DESIGNED BY: MDB
CHECKED BY: KAL
SERIAL NO. _____

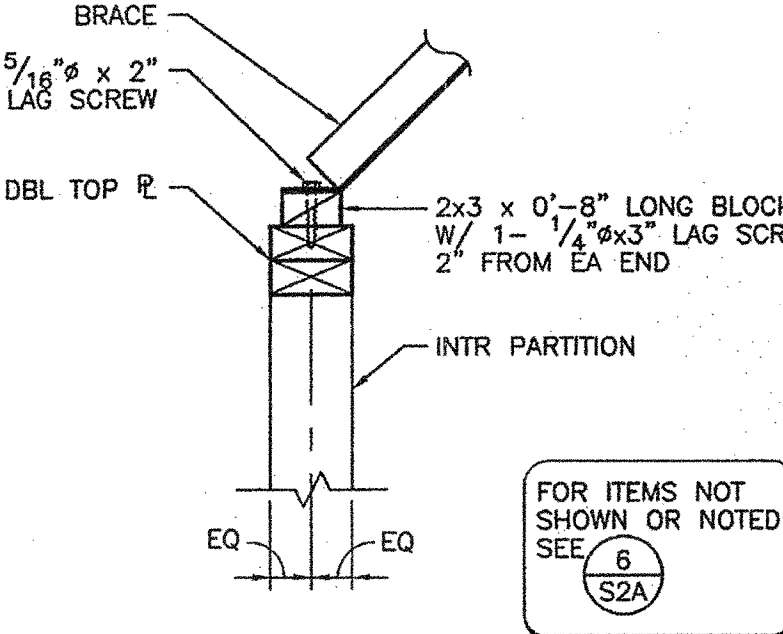
REVISIONS					
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No.
02156-01

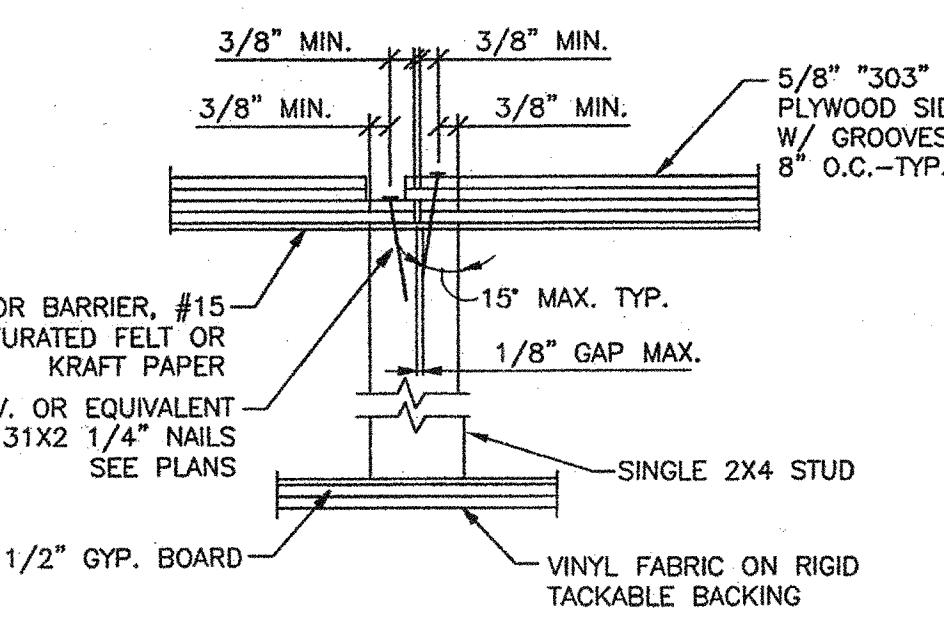
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S2



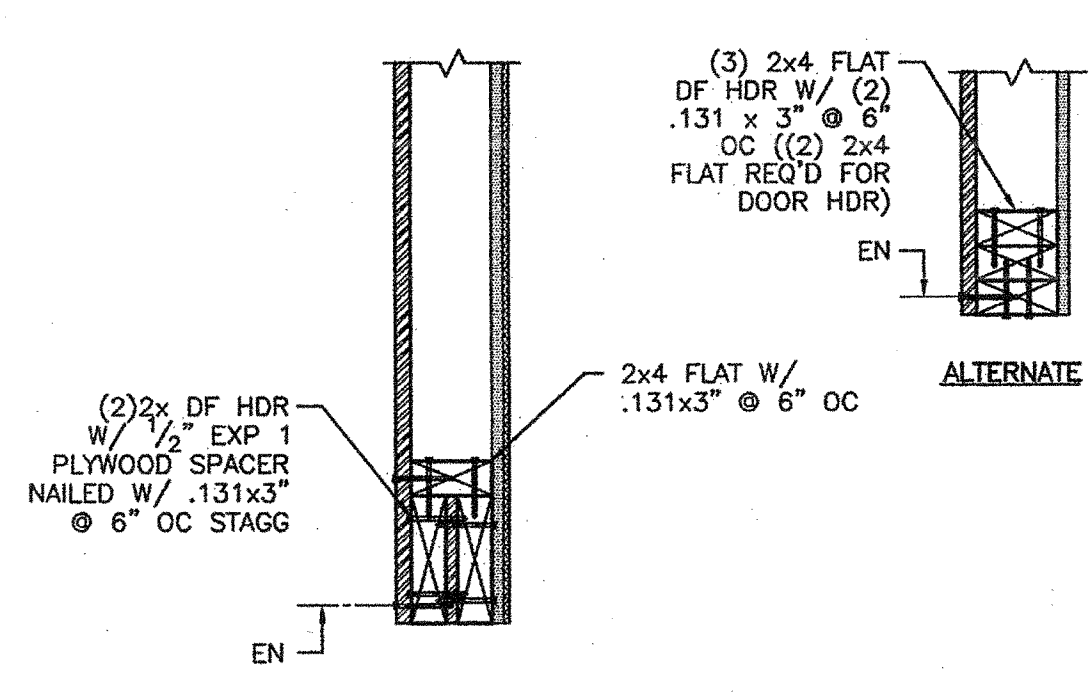
ALT. WALL FRAMING DETAIL
7 S2A
1 1/2" = 1'-0"



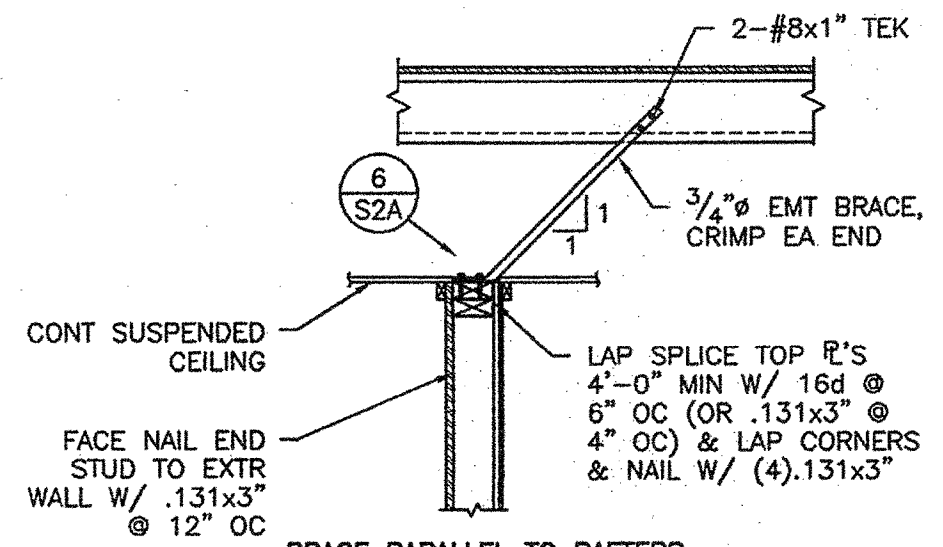
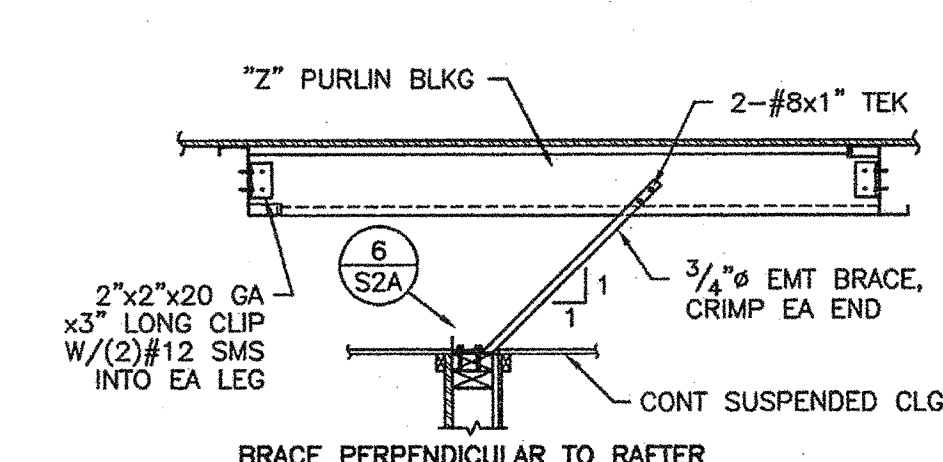
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1 1/2" = 1'-0"



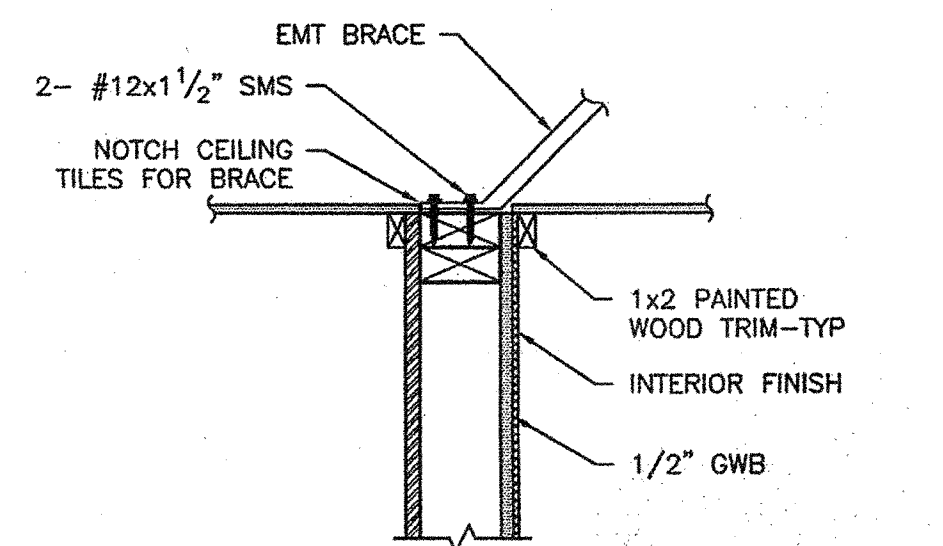
TYPICAL SIDING JOINT DETAIL
9 S2A
NO SCALE



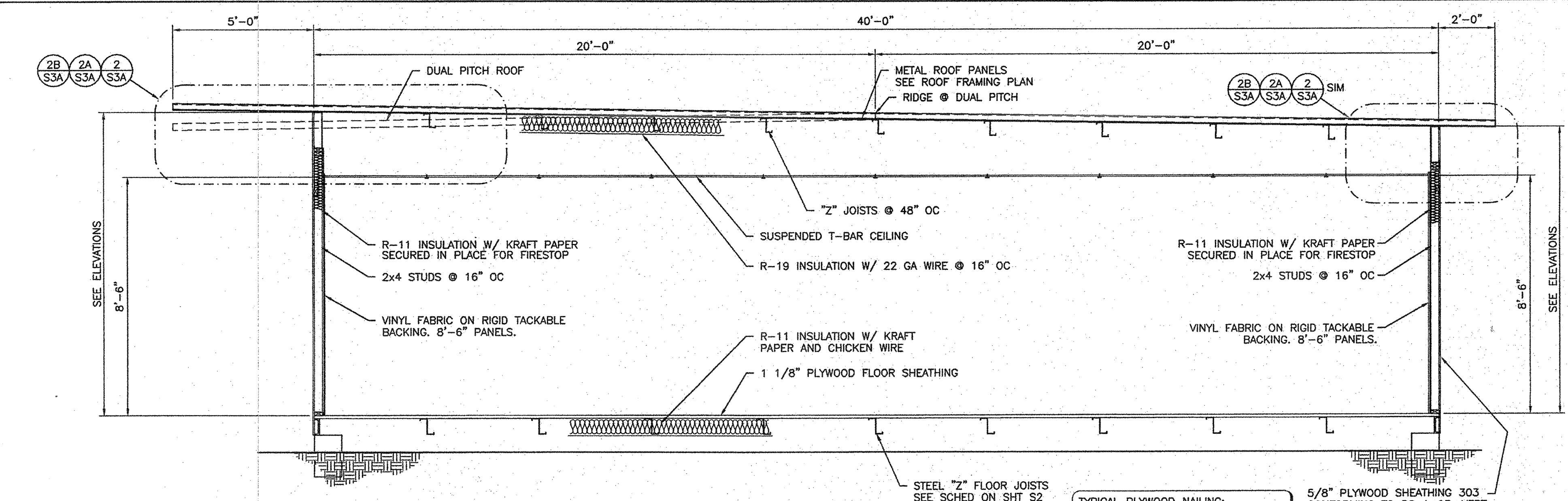
WALL FRAMING DETAIL
4 S2A
1 1/2" = 1'-0"



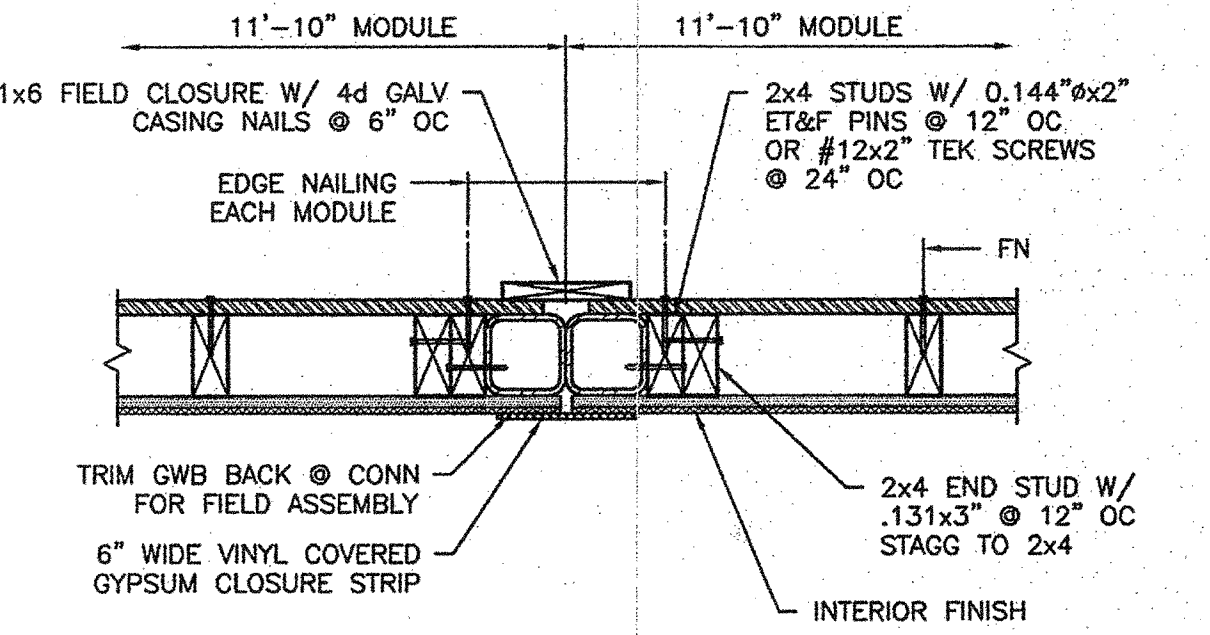
WALL FRAMING DETAIL
5 S2A
NO SCALE



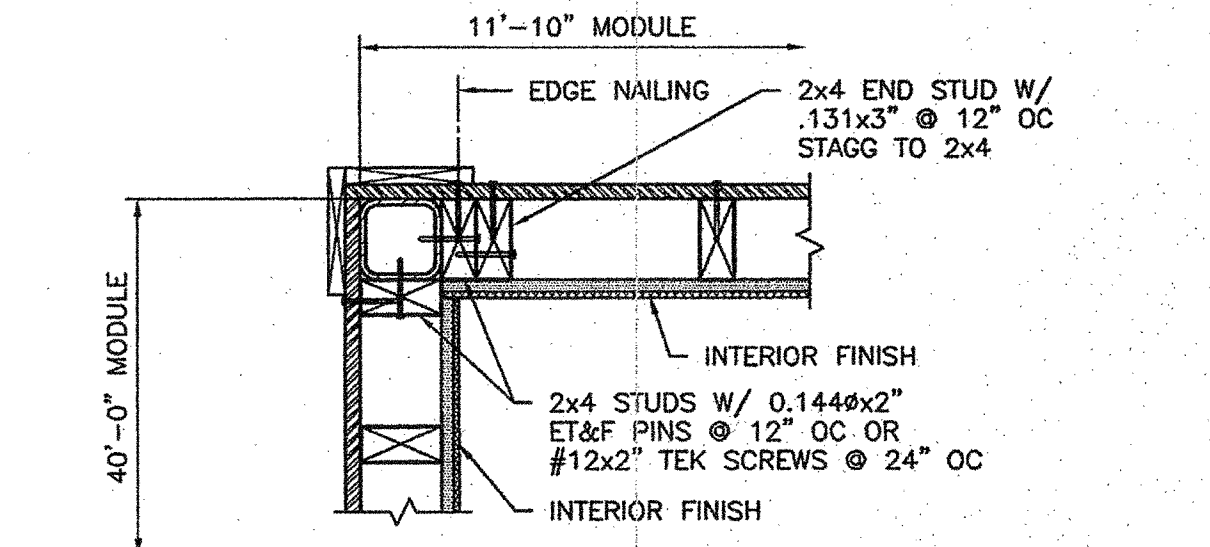
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6 S2A
1 1/2" = 1'-0"



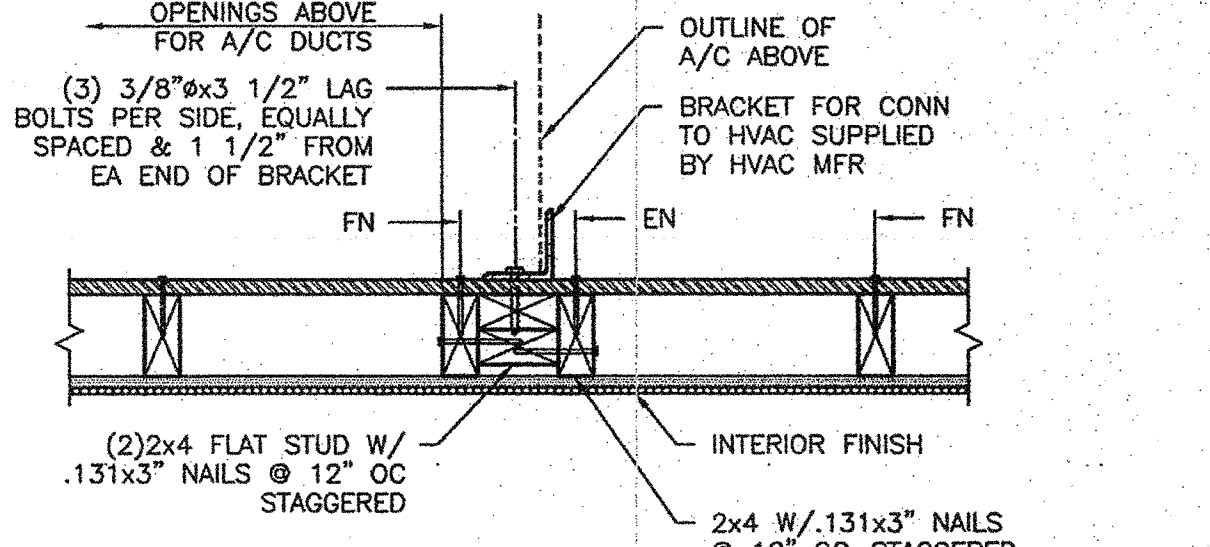
TYPICAL LONGITUDINAL SECTION
A S2A
3/8" = 1'-0"



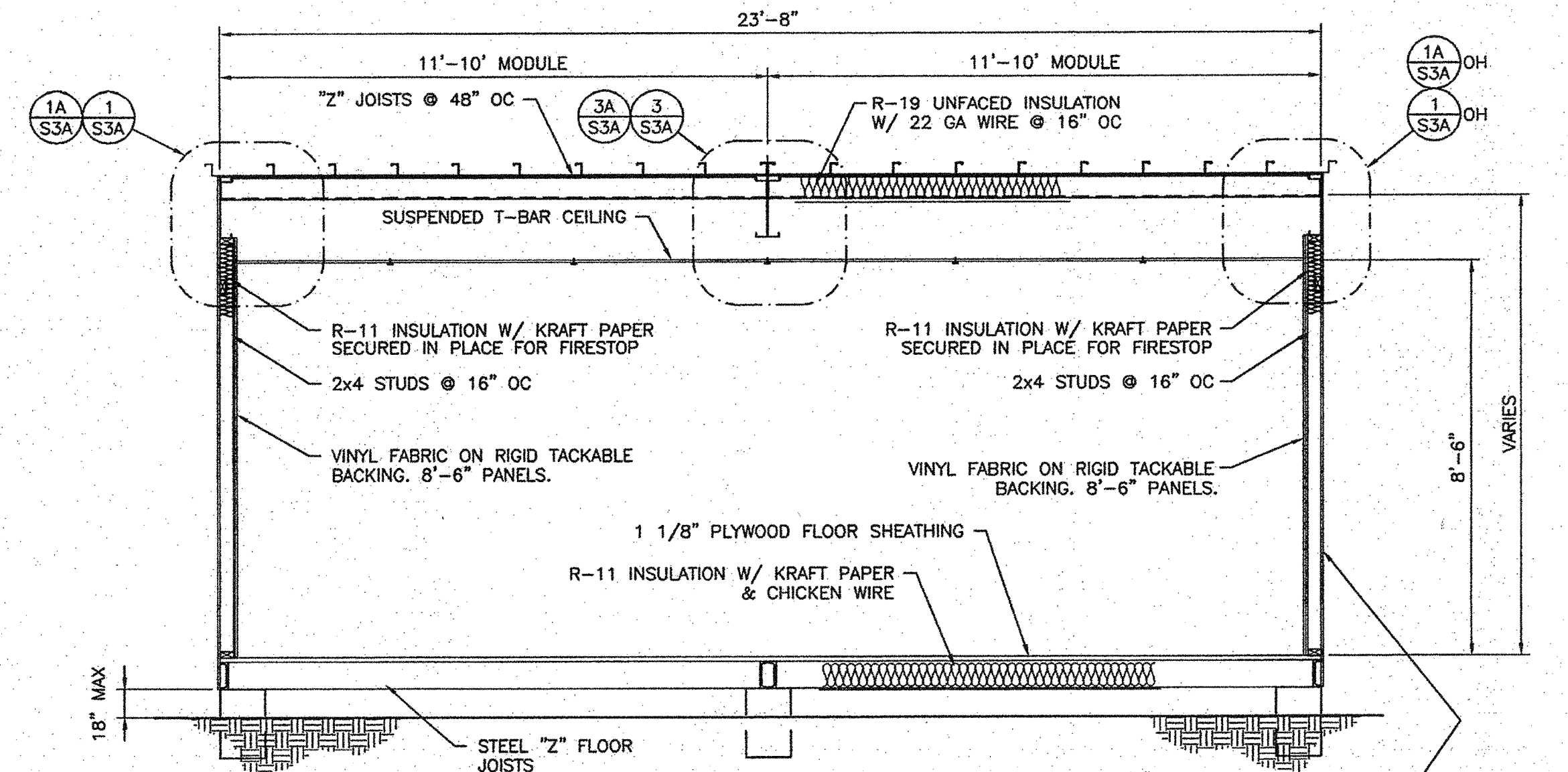
WALL FRAMING PLAN DETAIL
1 S2A
1 1/2" = 1'-0"



WALL FRAMING PLAN DETAIL
2 S2A
1 1/2" = 1'-0"



WALL FRAMING PLAN DETAIL
3 S2A
1 1/2" = 1'-0"



TYPICAL TRANSVERSE SECTION
B S2A
3/8" = 1'-0"

P:\02156\01\ACAD\STRAU\S2A.dwg Time: 4/23/03 2:03:03 PM Scale: 1/8" = 1'-0"

24 x 40
RELOCATABLE
CLASSROOM

AMS
American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(909)256-1021 Fax: (909)256-7018
americanmodular.com

REGISTERED ARCHITECT
No. C 19831
Ren. 5/2/02
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
Kenneth A. Lerner
No. 4418
Exp. 3/31/05
Structural Engineer
STATE OF CALIFORNIA

CUSTOMER: _____

DATE: 5/30/03
SCALE: AS NOTED
DRAWN BY: REM
DESIGNED BY: MDB
CHECKED BY: KAL
SERIAL NO. _____

NO	DATE	DESCRIPTION

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No.
02156-01

SHEET No.
S2A

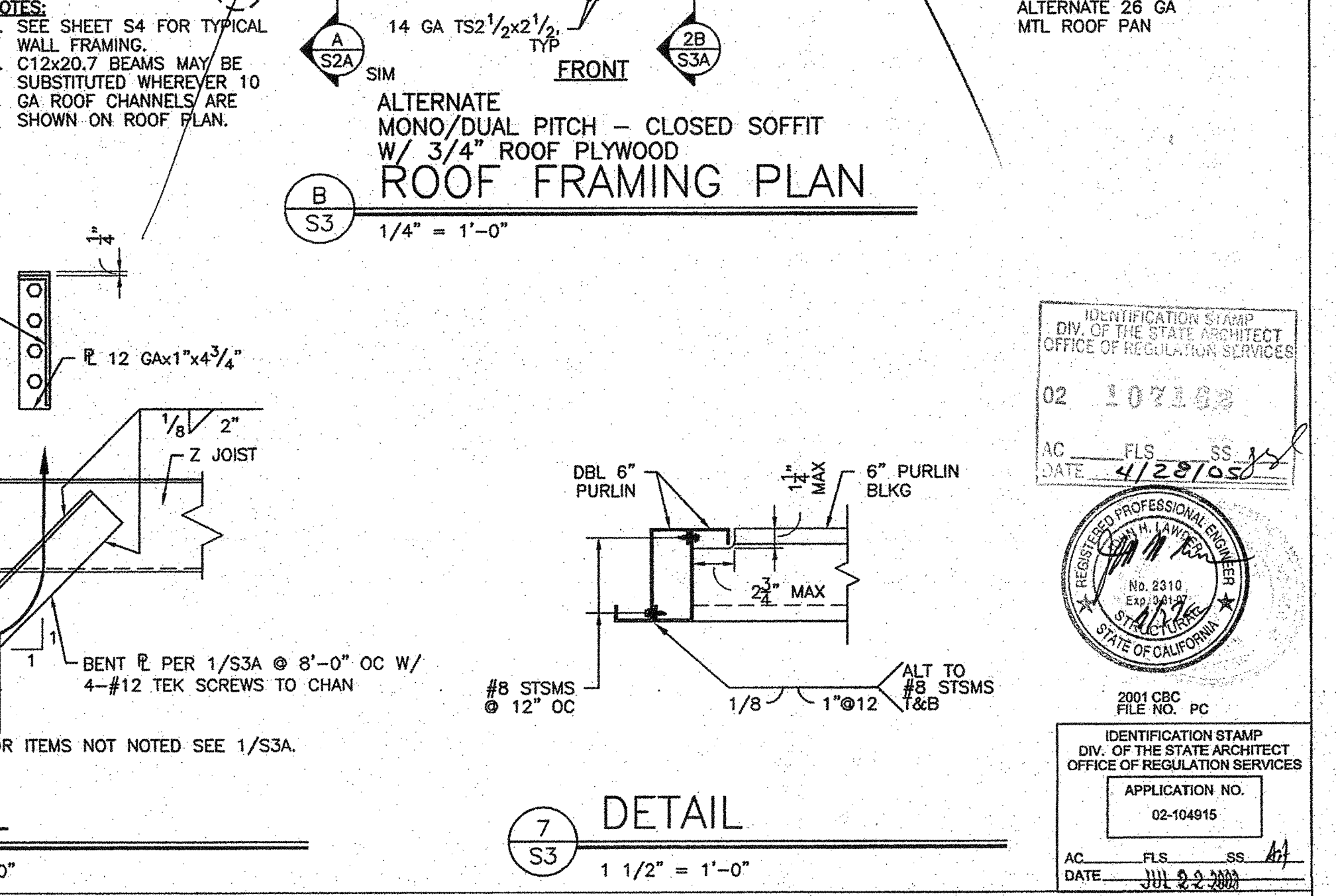
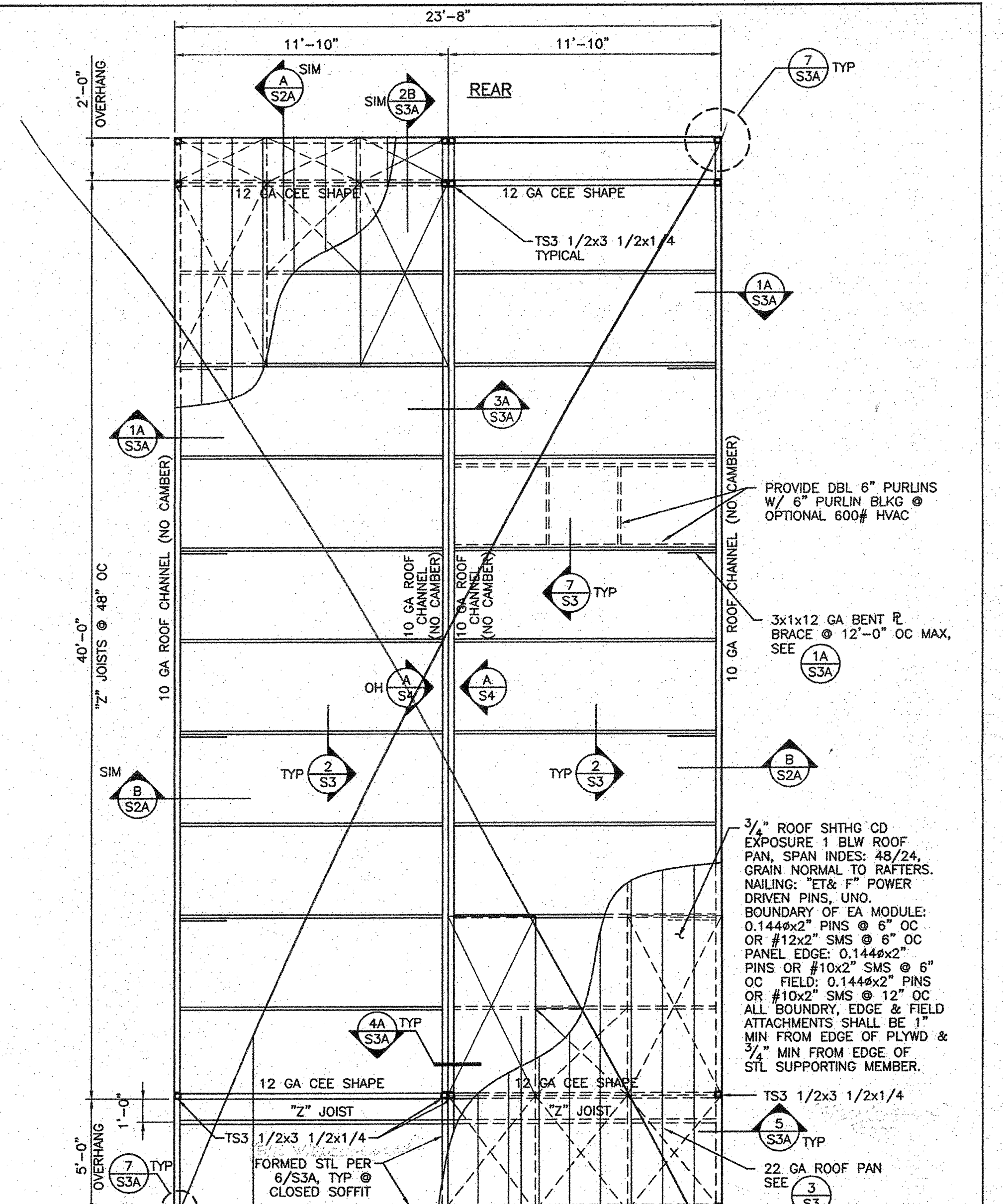
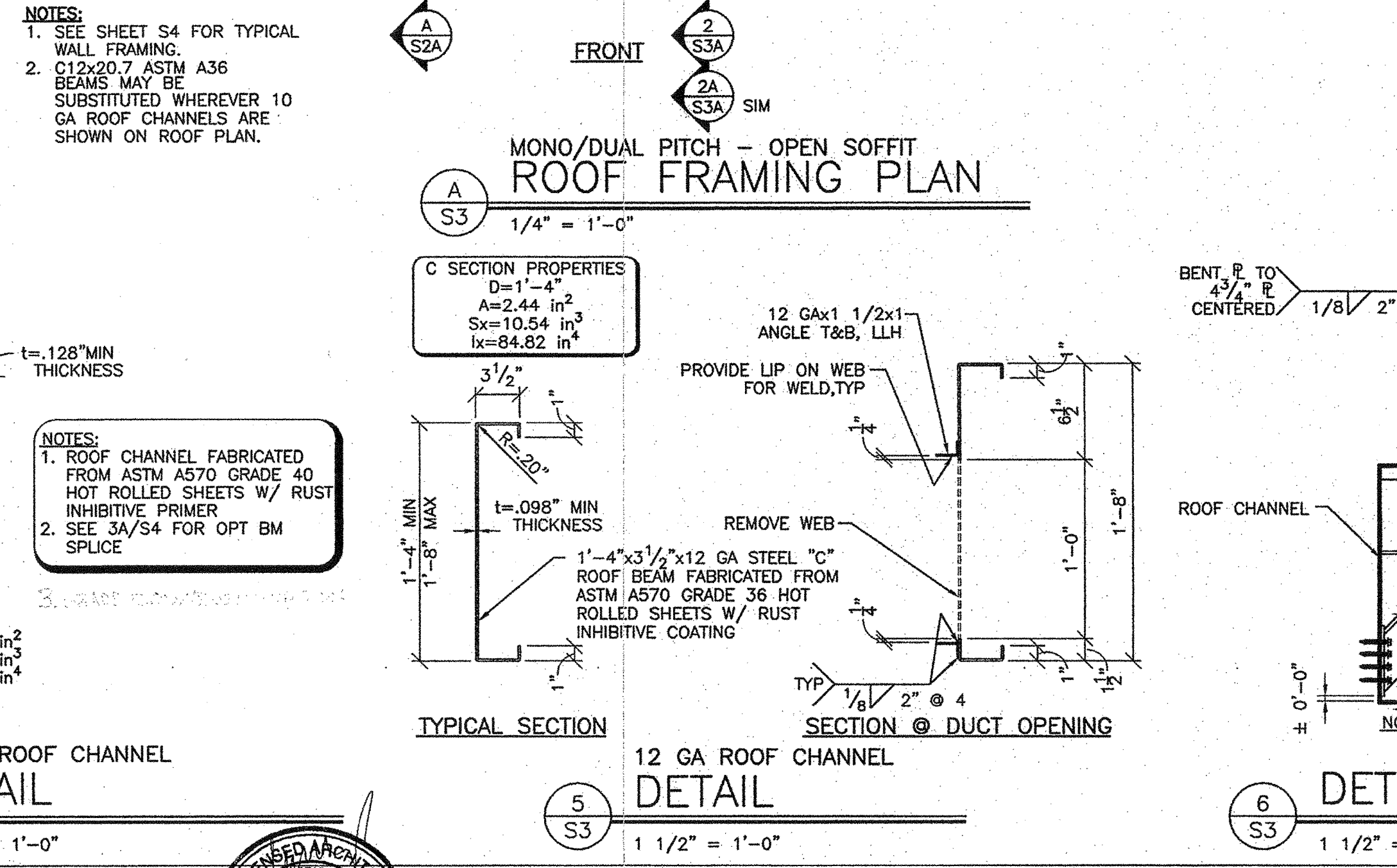
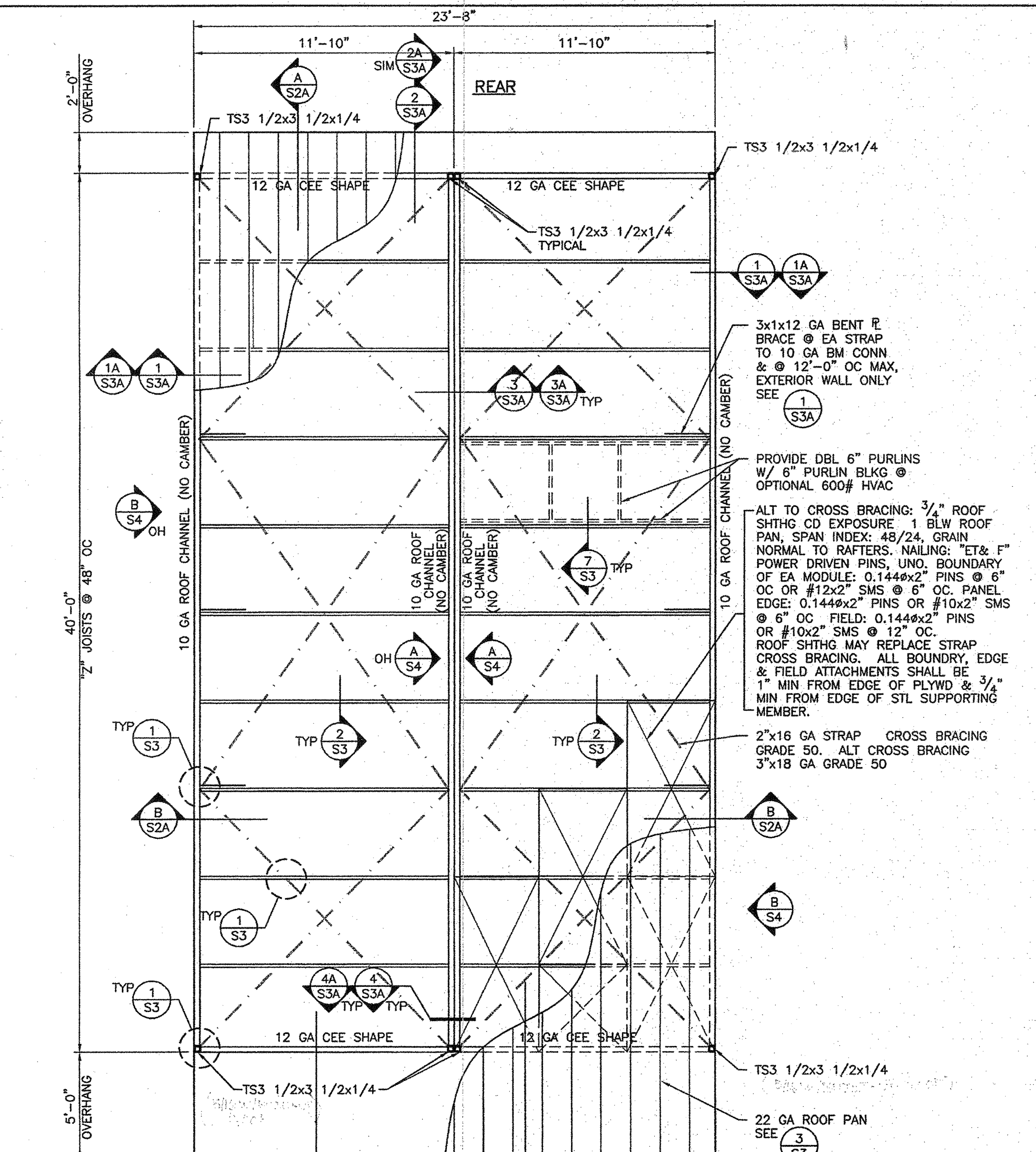
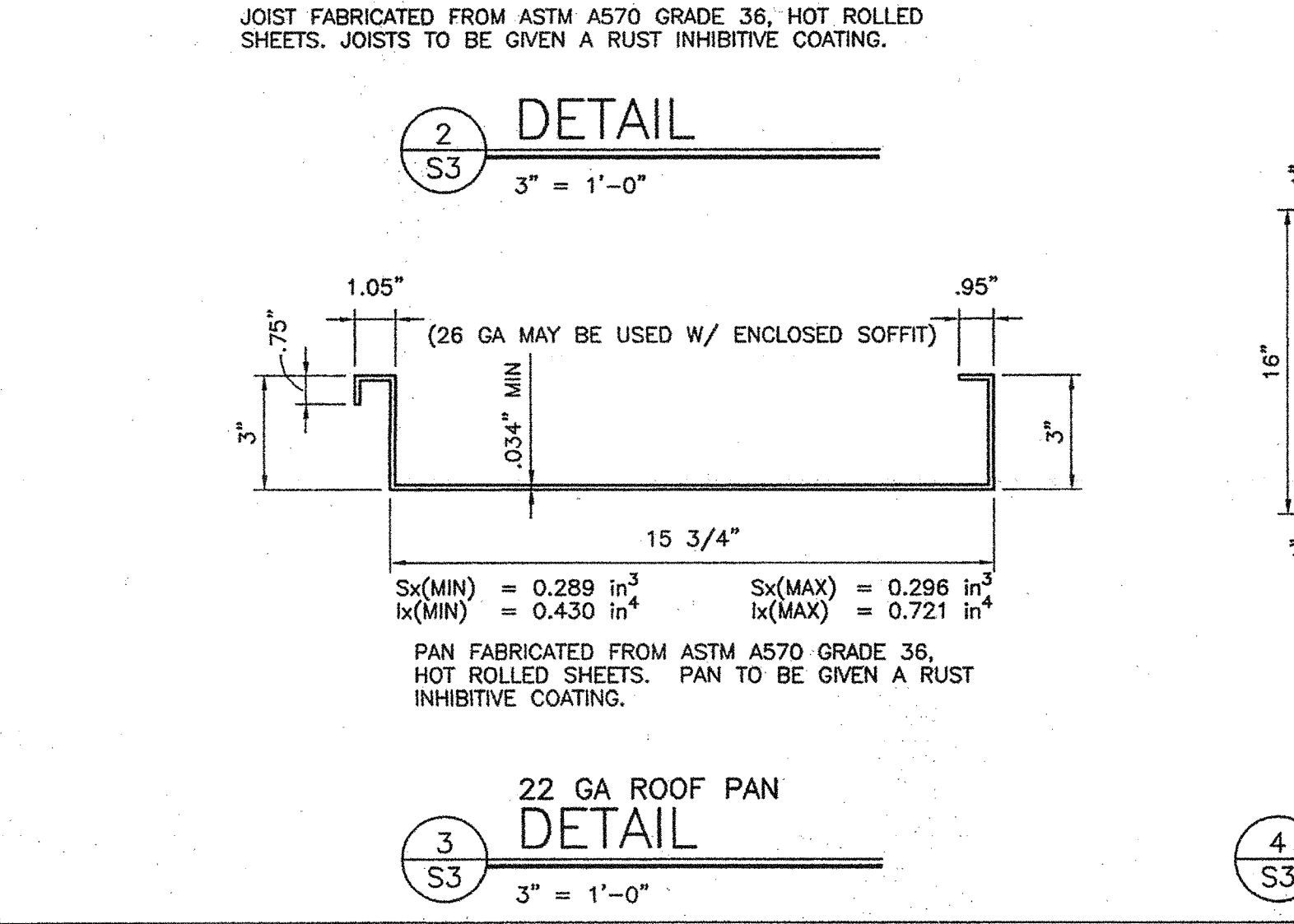
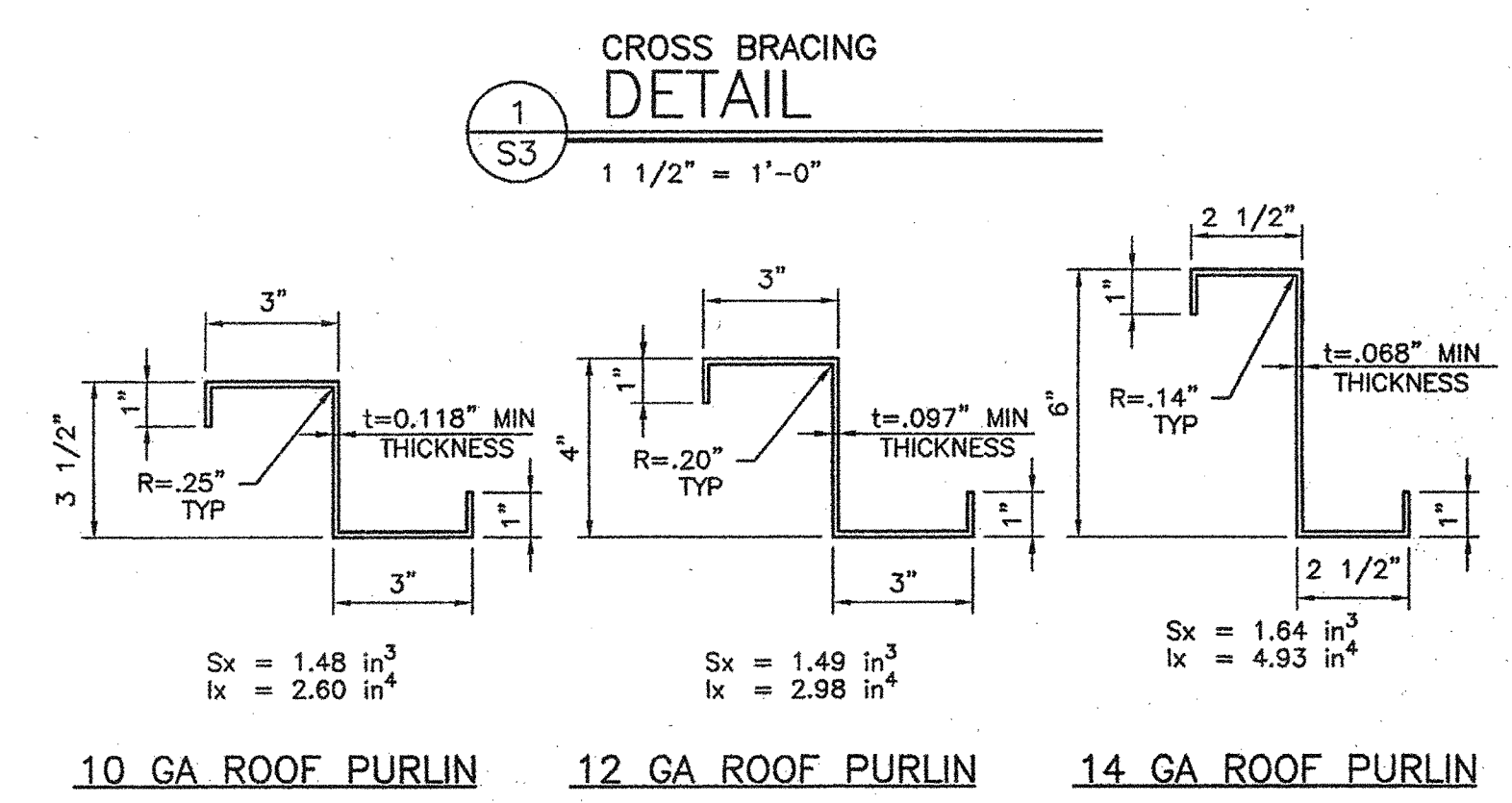
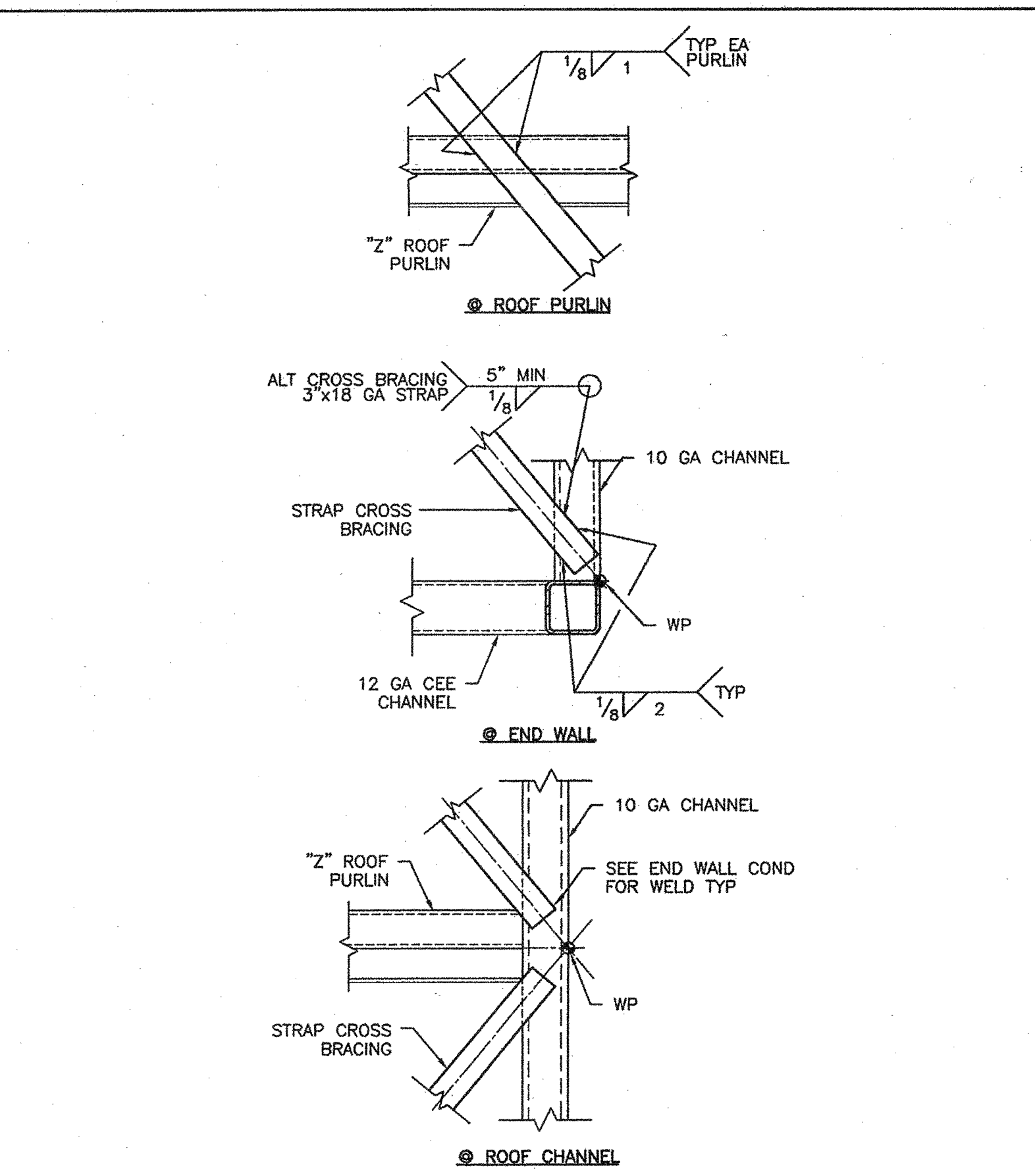
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
ACS FILE: 333 D.M.
DATE: 4/23/03

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPLICATION NO. 02-104916
AC FILE: 333 D.M.
DATE: 4/23/03

2001 CBC FILE NO. PC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPLICATION NO. 02-104916
AC FILE: 333 D.M.
DATE: 4/23/03

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AMS
American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

REGISTERED ARCHITECT
No. C 12881
Keneth A. Lutz
Lic. 418
Exp. 3-31-05
Professional Engineer

CUSTOMER: _____

DATE: 5/30/03
SCALE: AS NOTED
DRAWN BY: REM
DESIGNED BY: MOB
CHECKED BY: KAL
SERIAL NO. _____

ROOF FRAMING PLAN AND DETAILS

REVISIONS					
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

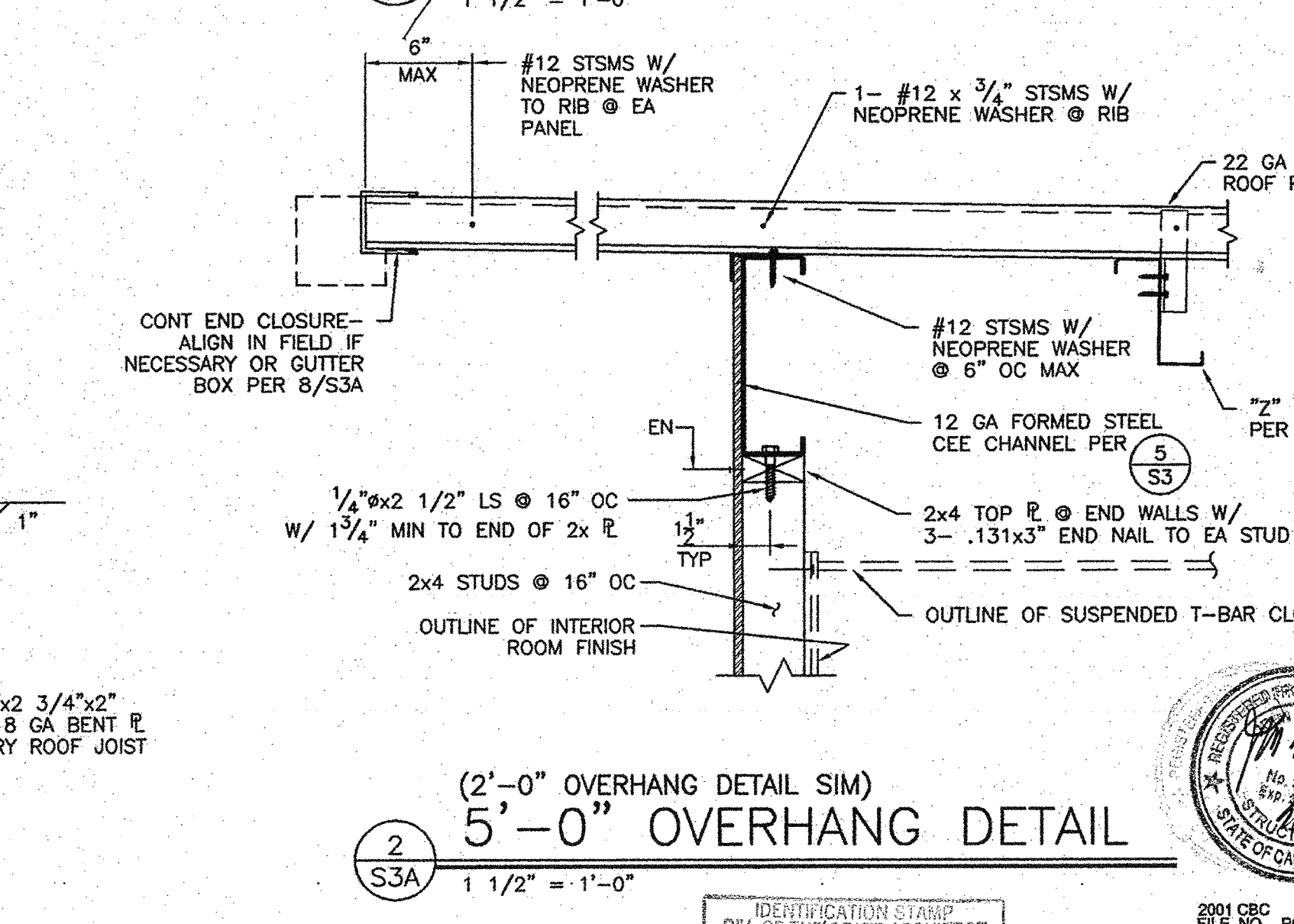
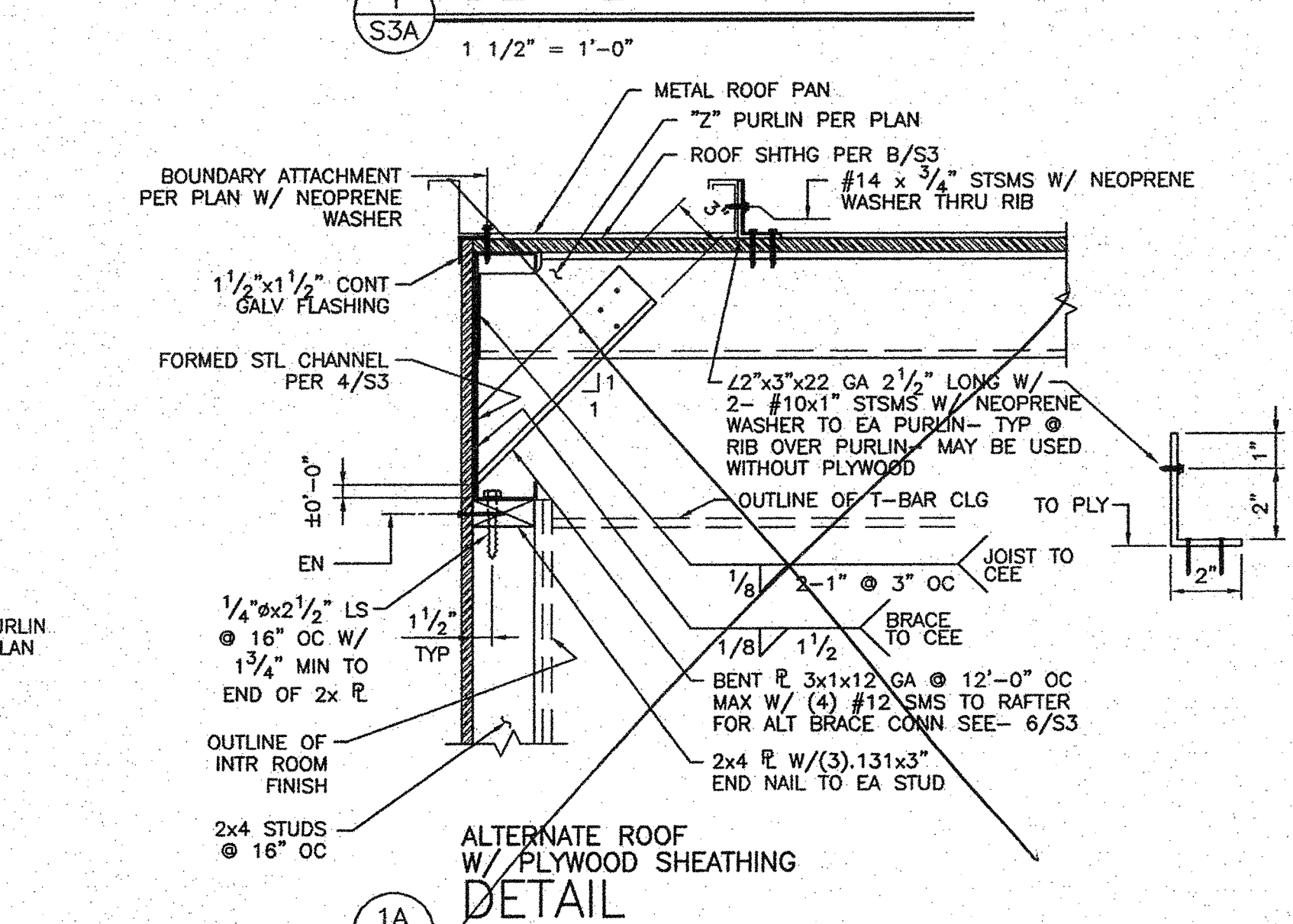
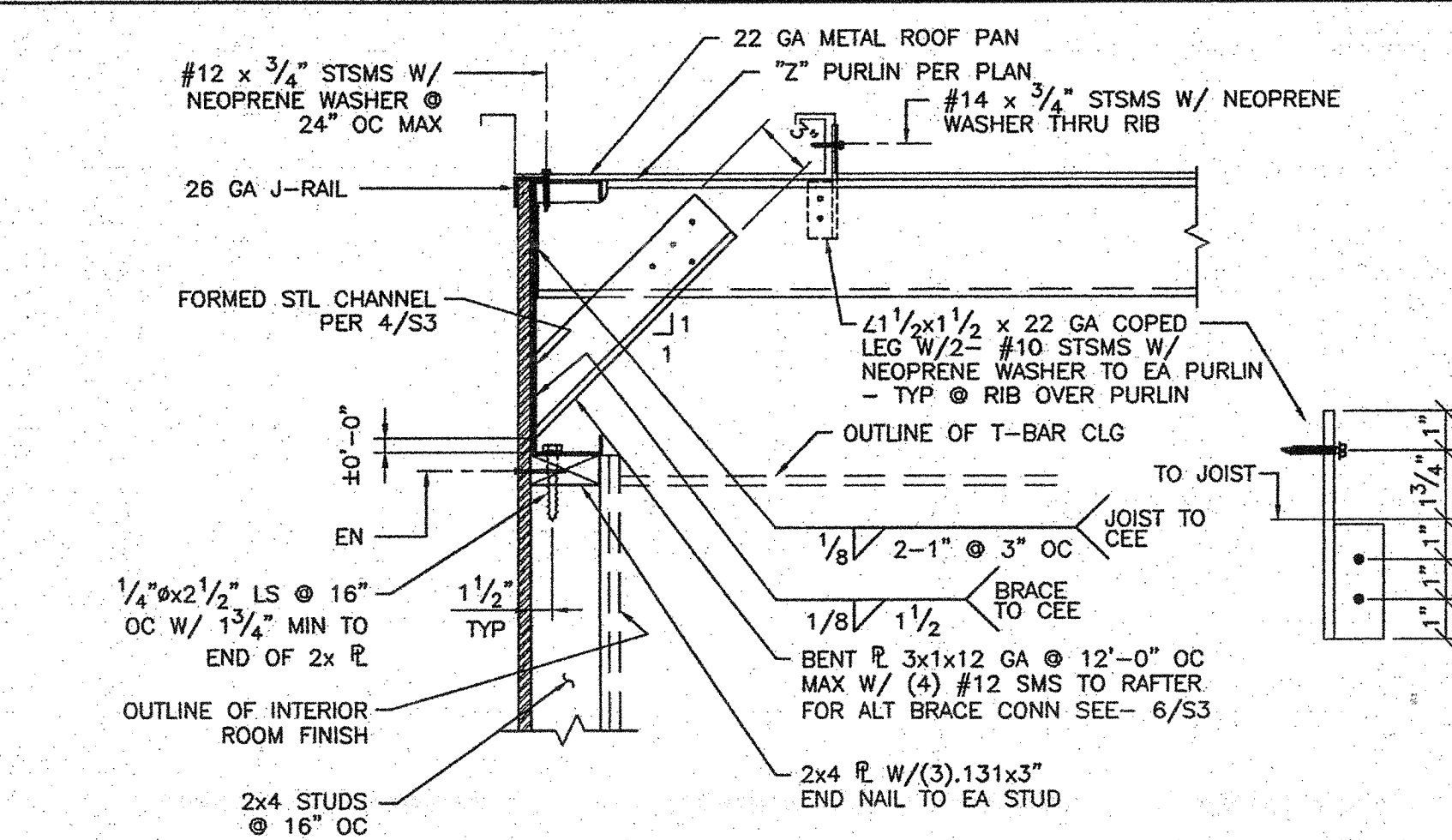
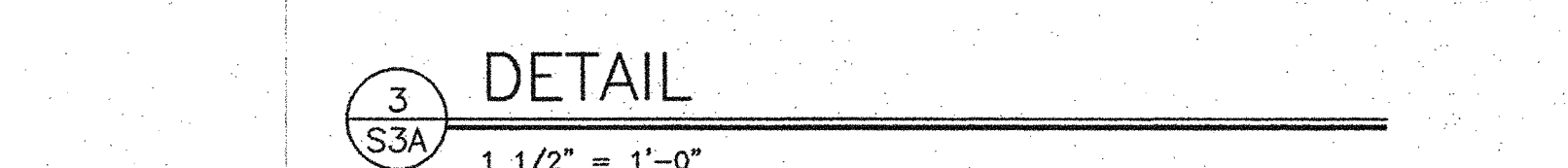
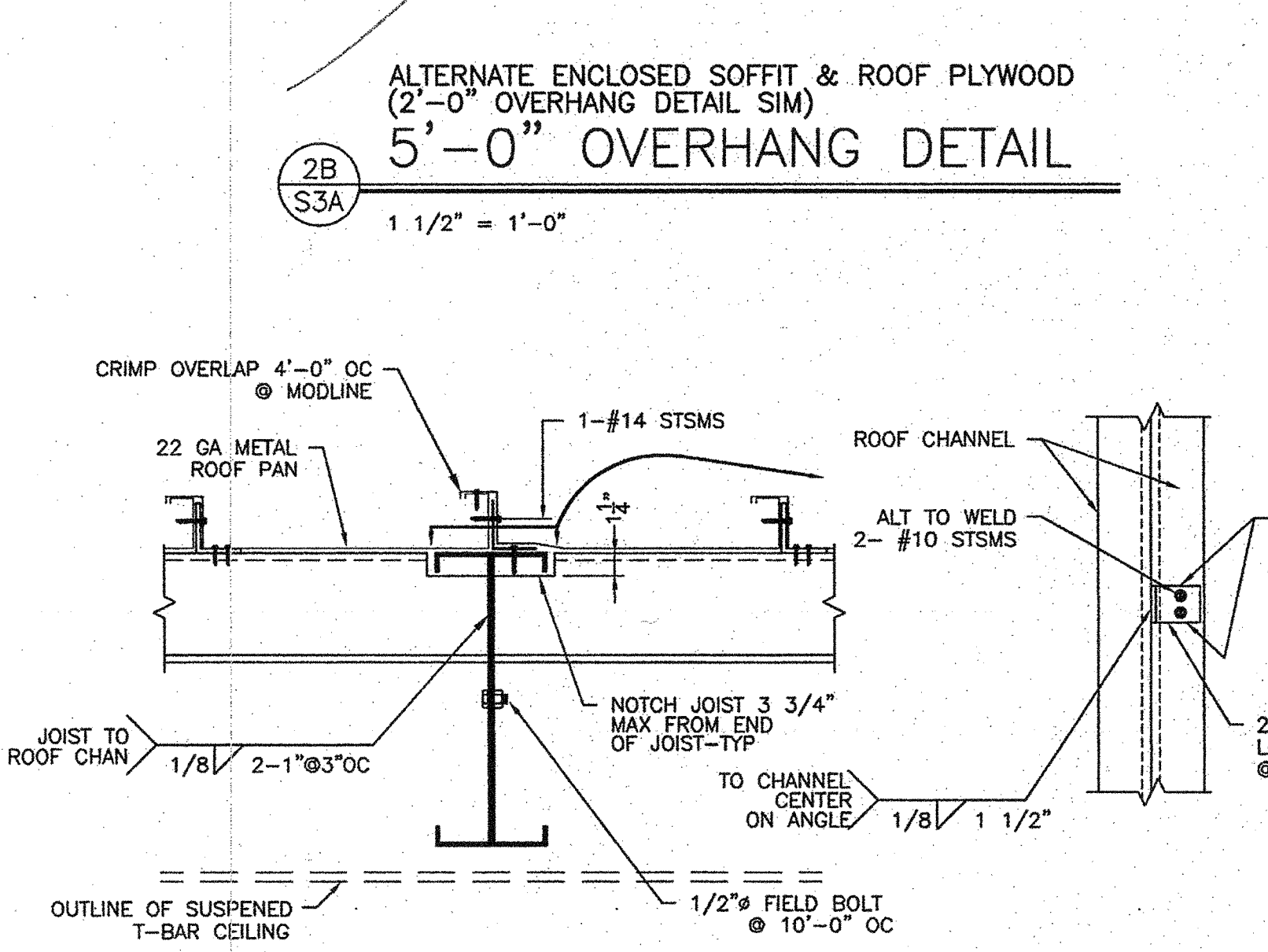
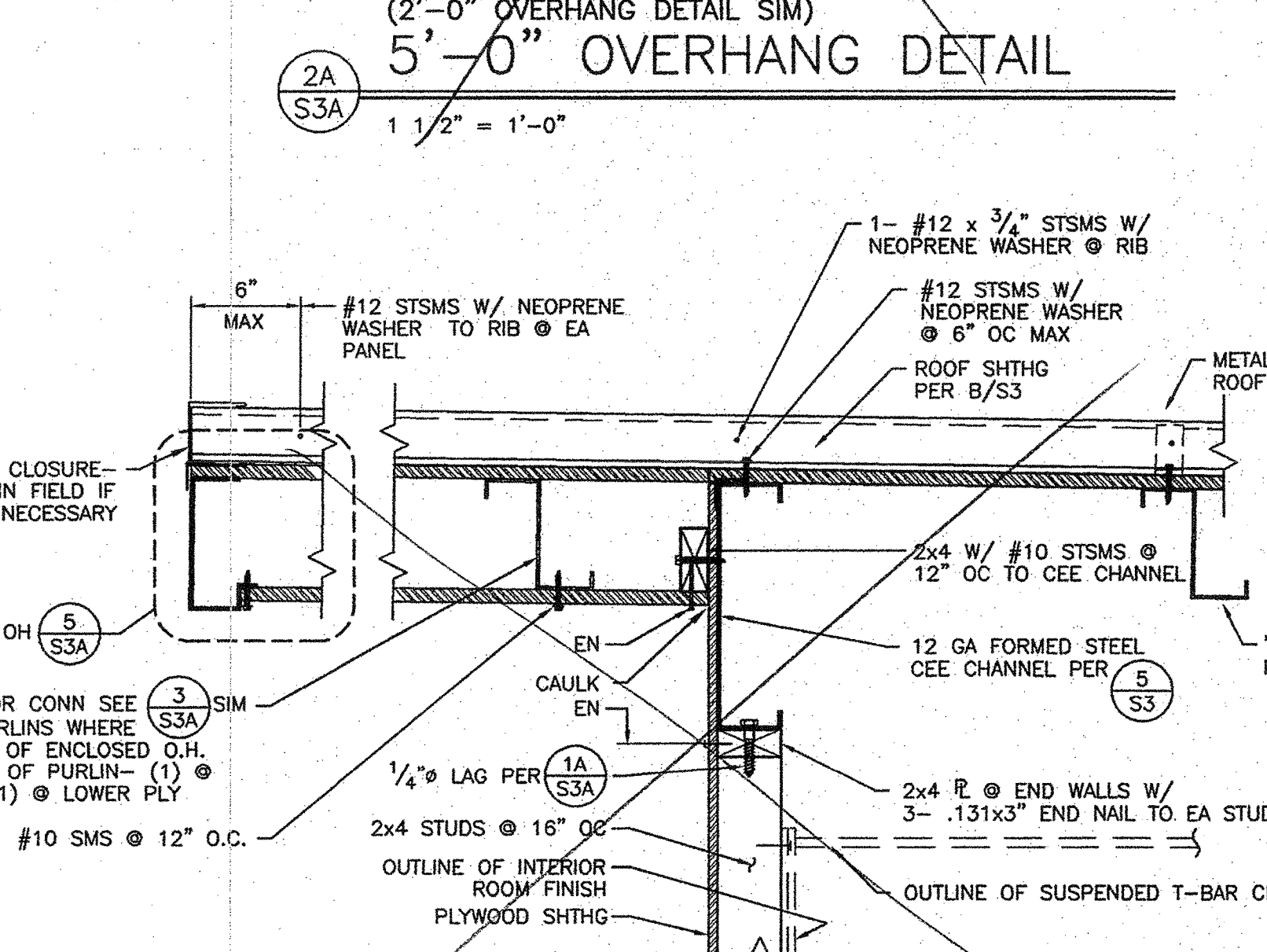
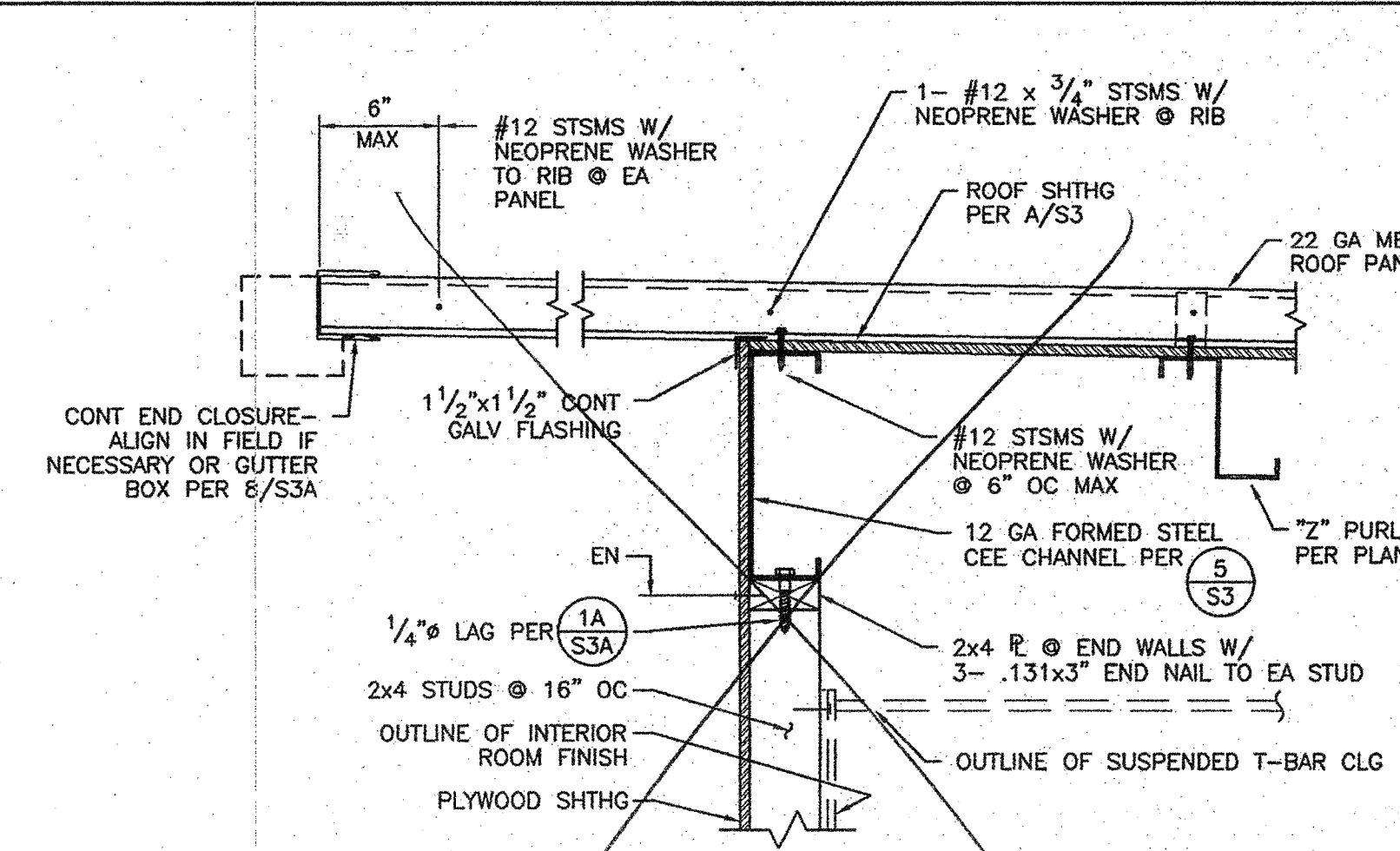
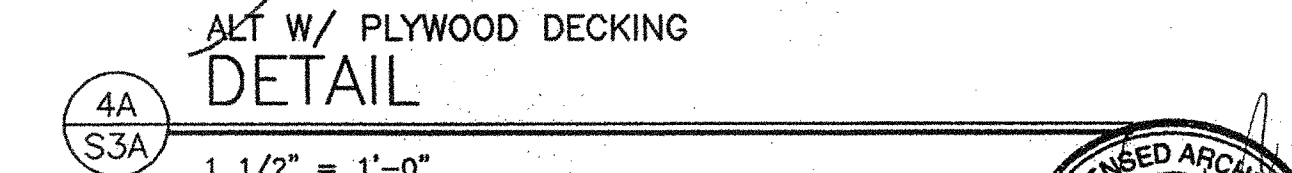
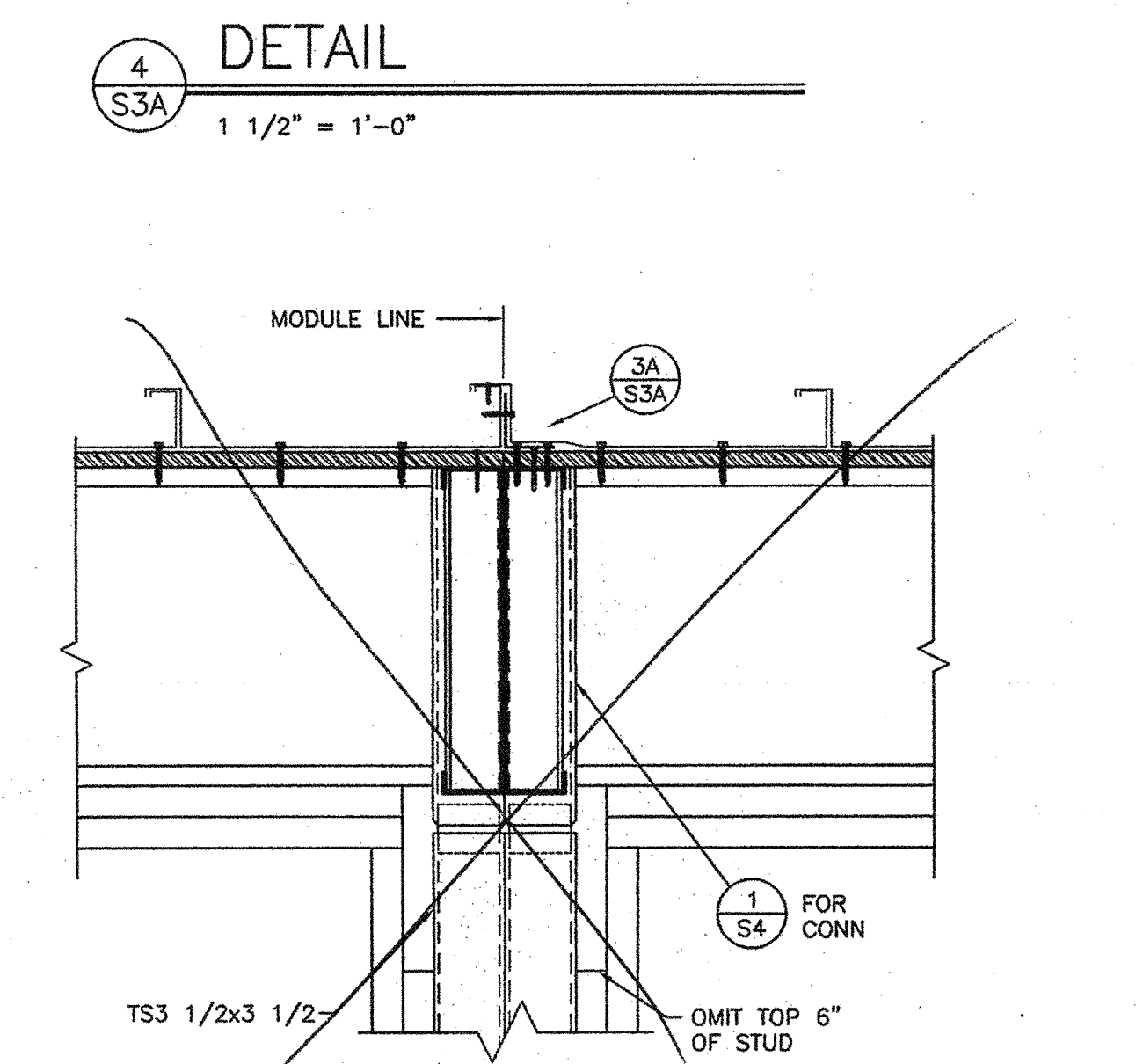
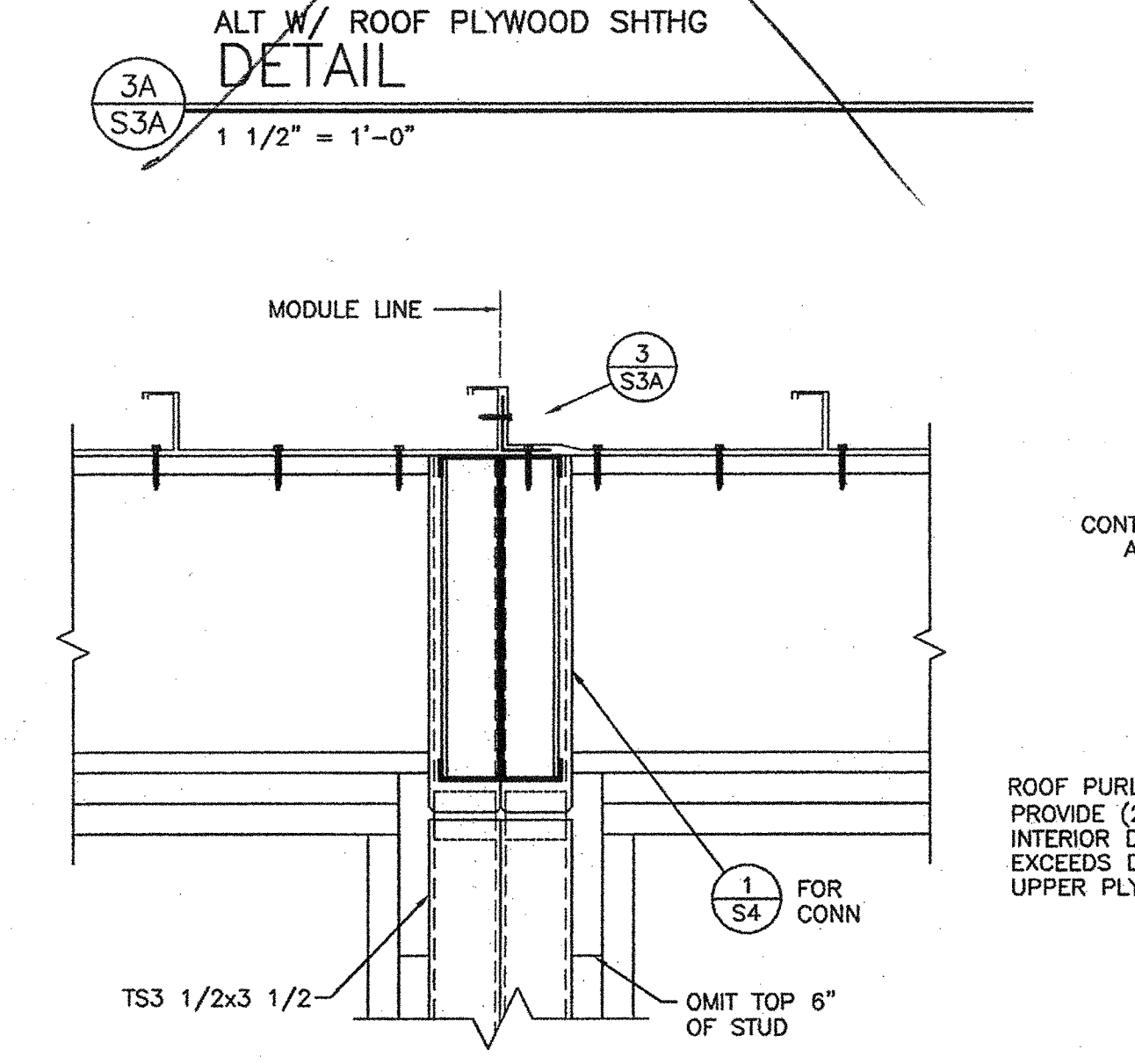
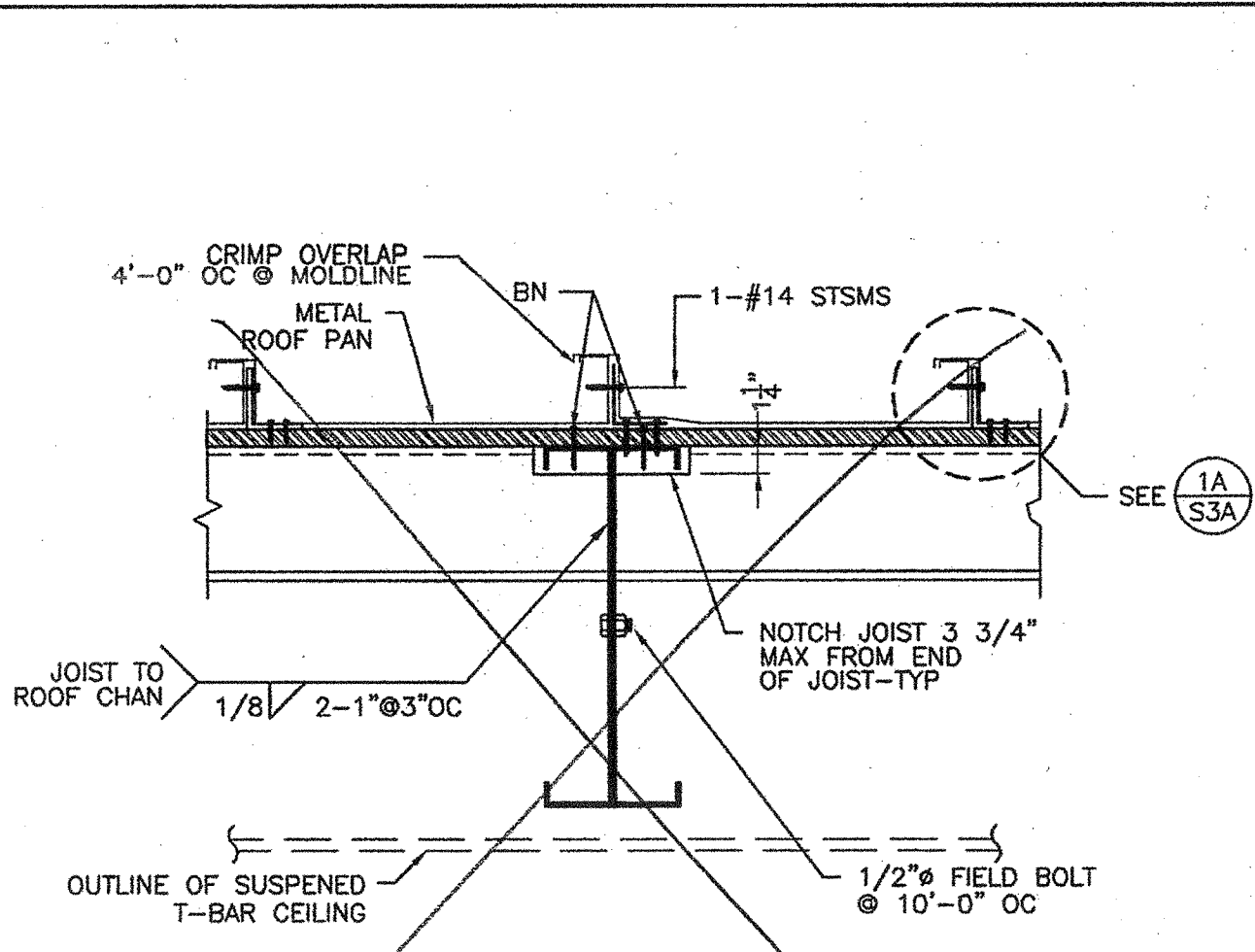
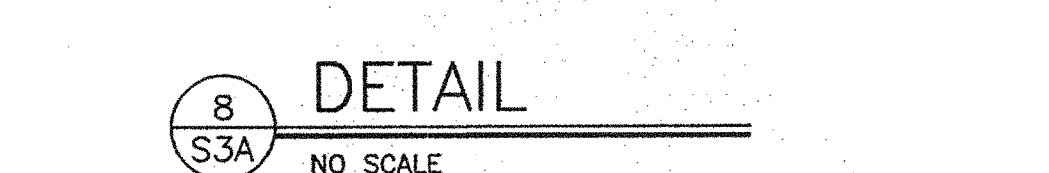
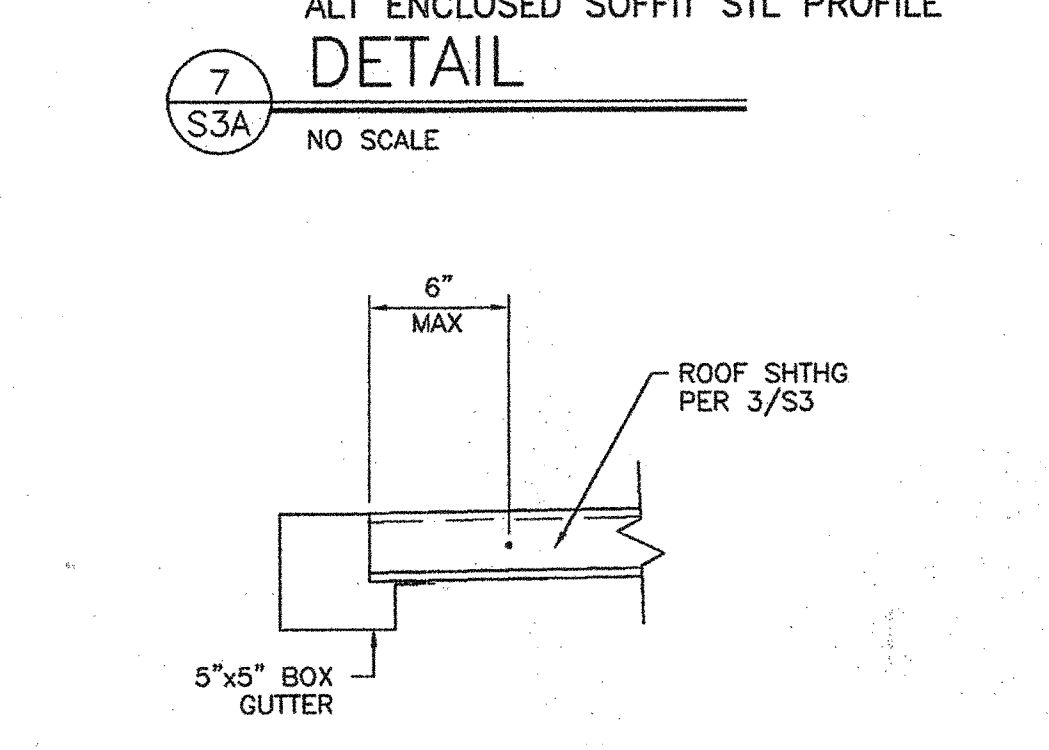
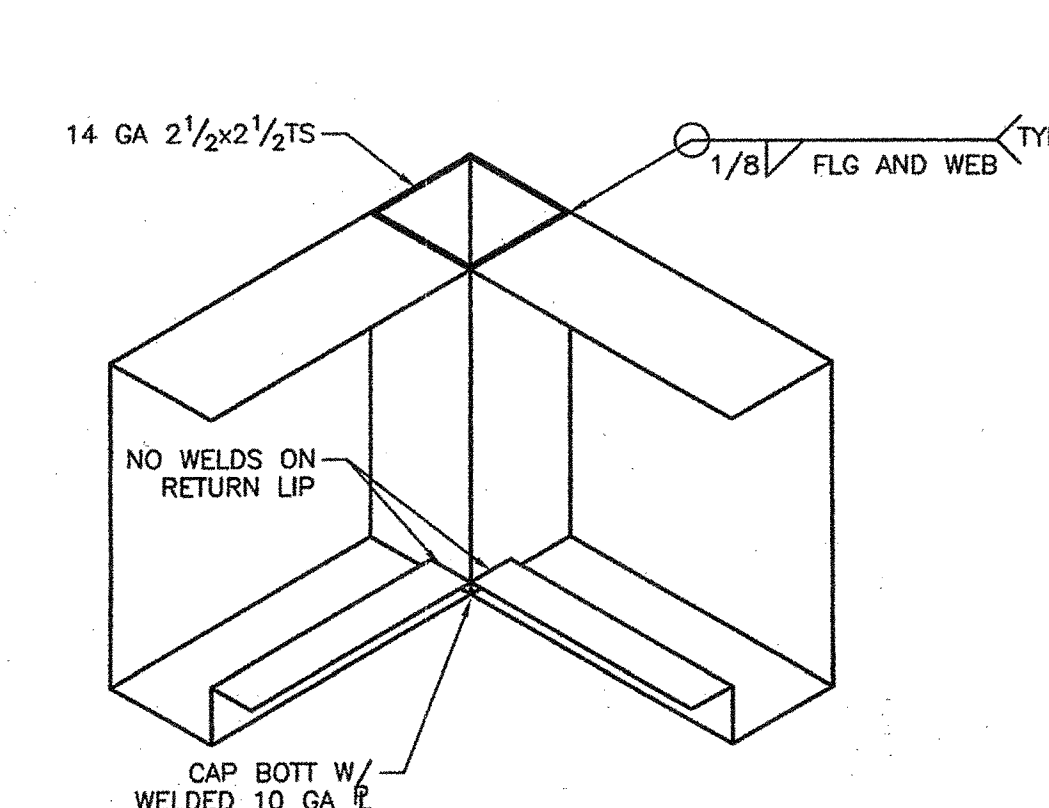
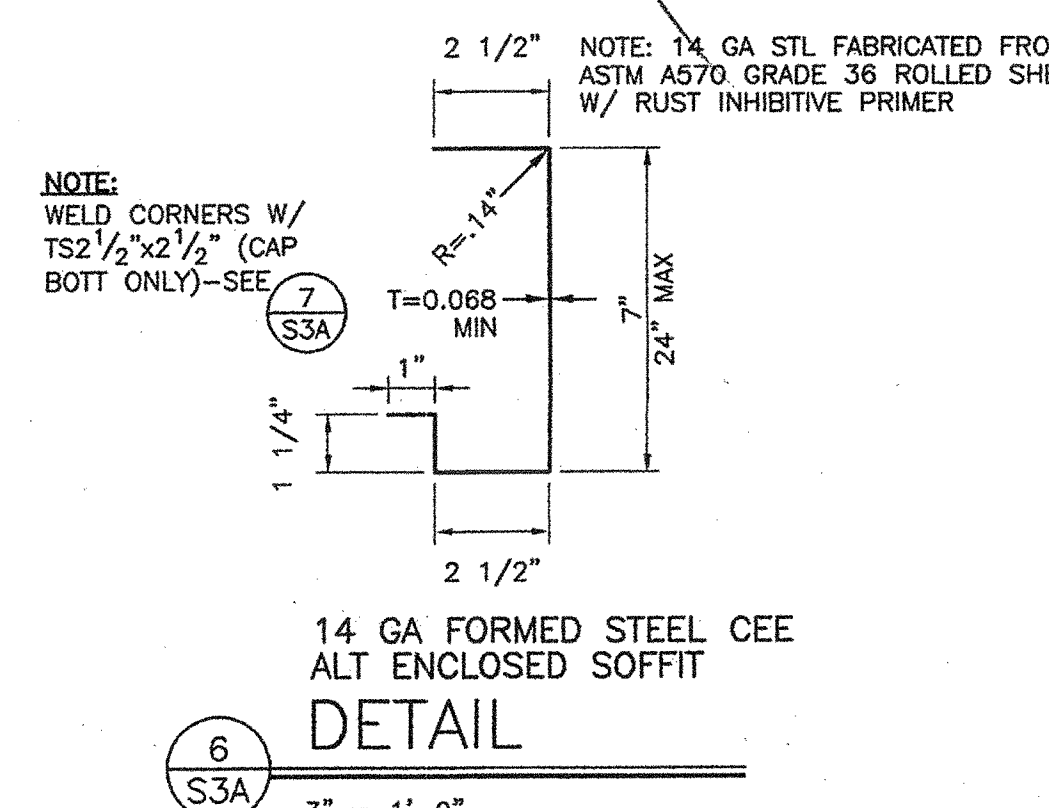
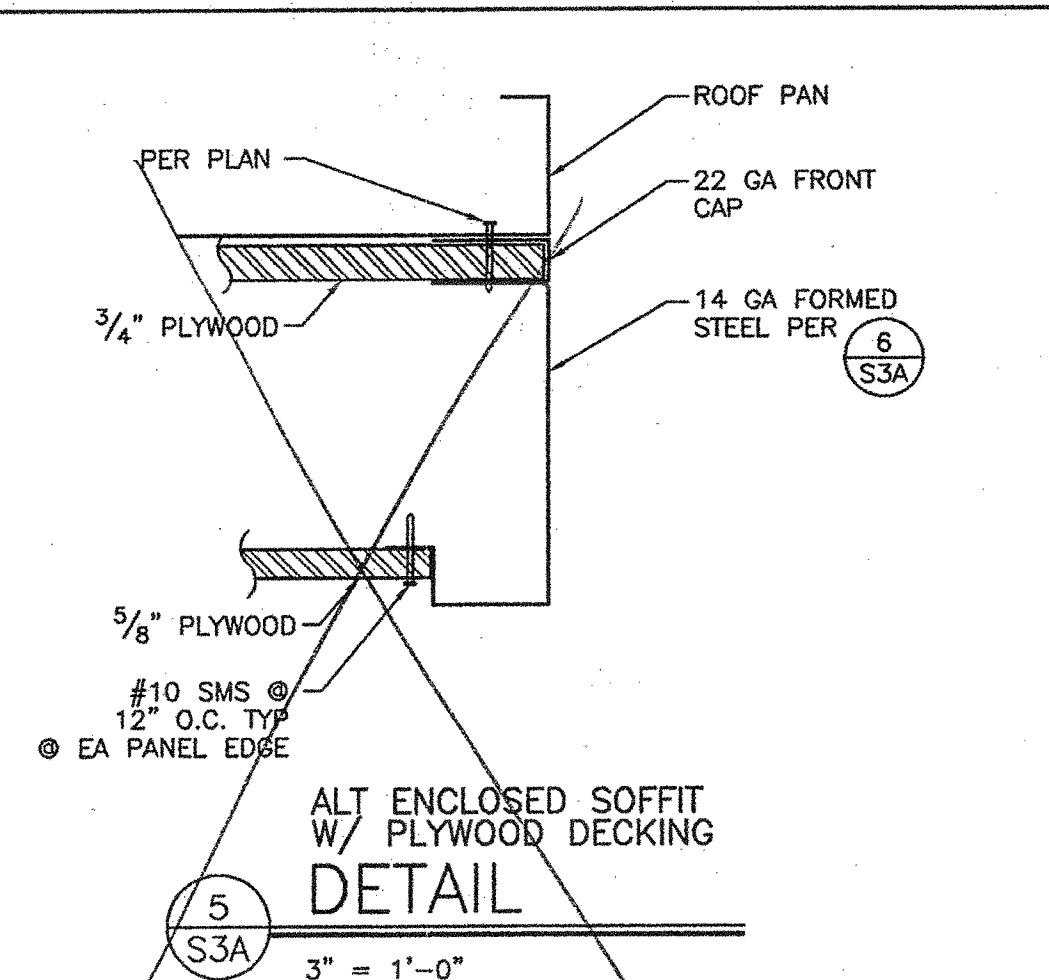
PROJECT No.
02156-01

SHEET No.
S3

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APR 01-117316
DATE: 4/27/03

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02 107316
AC: FLS SS J
DATE: 4/27/03

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPLICATION NO.
02-104815
AC: FLS SS J
DATE: 4/27/03



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24 x 40
RELOCATABLE
CLASSROOM

AMS
American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
(209)865-1921 Fax (209)865-7018
americanmodular.com

REGISTERED ARCHITECT
STATE OF CALIFORNIA
No. C 12891
Ren. 5-3-02
PROFESSIONAL ENGINEER
No. 4418
Exp. 12-31-05
Structural Engineer

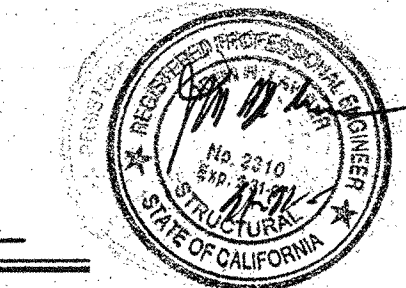
CUSTOMER: _____
ROOF SECTIONS AND DETAILS

DATE: 5/30/03
SCALE: AS NOTED
DRAWN BY: REM
DESIGNED BY: MDB
CHECKED BY: KAL
SERIAL NO. _____

REVISIONS					
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

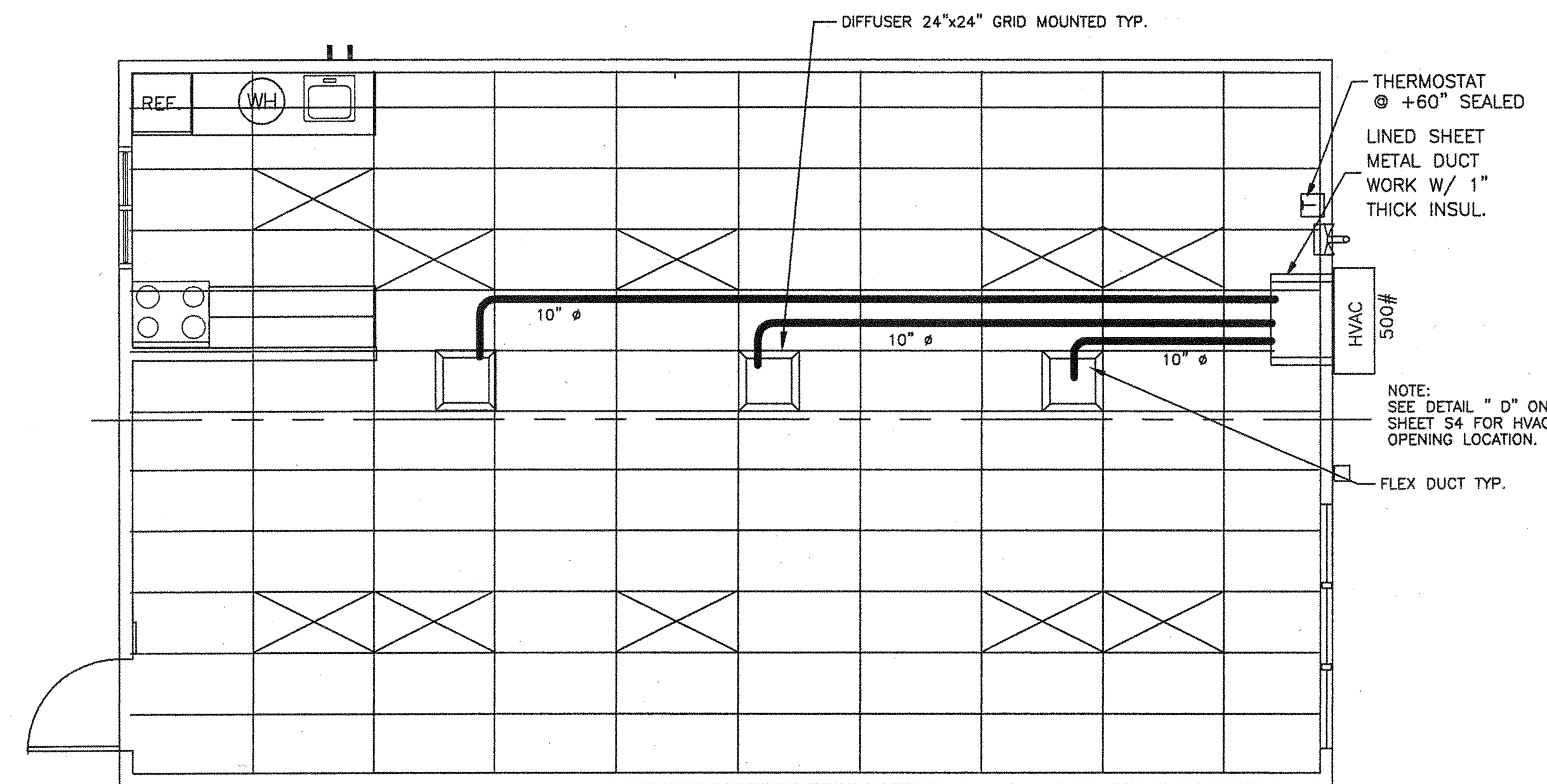
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02156-01
SHEET No.
S3A

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
ACS: _____ FLS: _____ SS: D.M.
DATE: 4/28/03

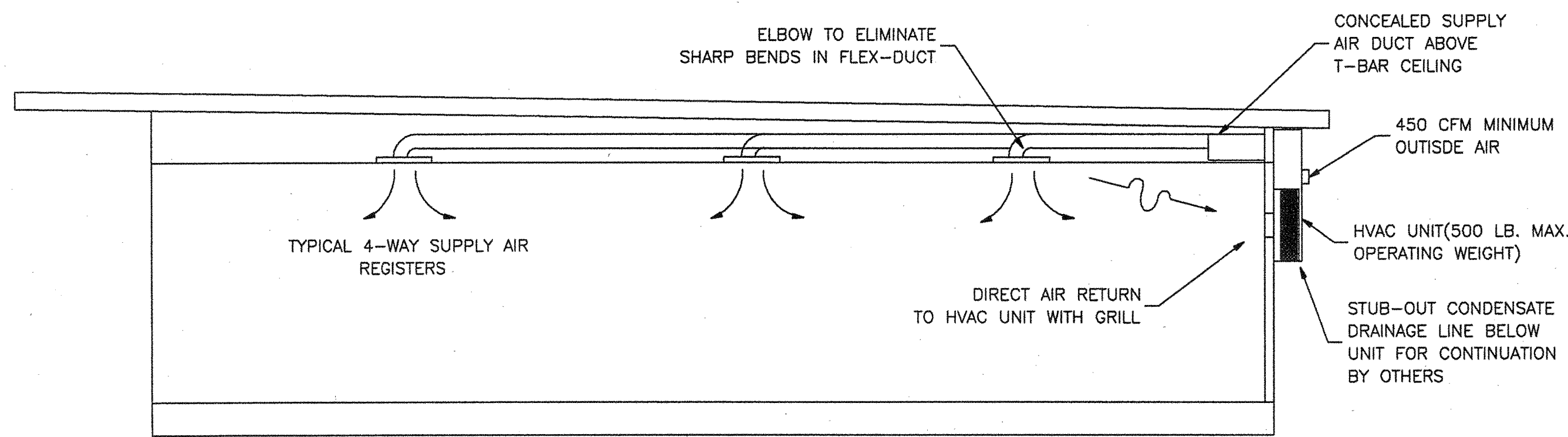


IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02 102363
AC: _____ FLS: _____ SS: _____
DATE: 4/28/03

2001 CRC
FILE NO. PC
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPLICATION NO.
03-104915
AC: _____ FLS: _____ SS: _____
DATE: JUL 22 2003



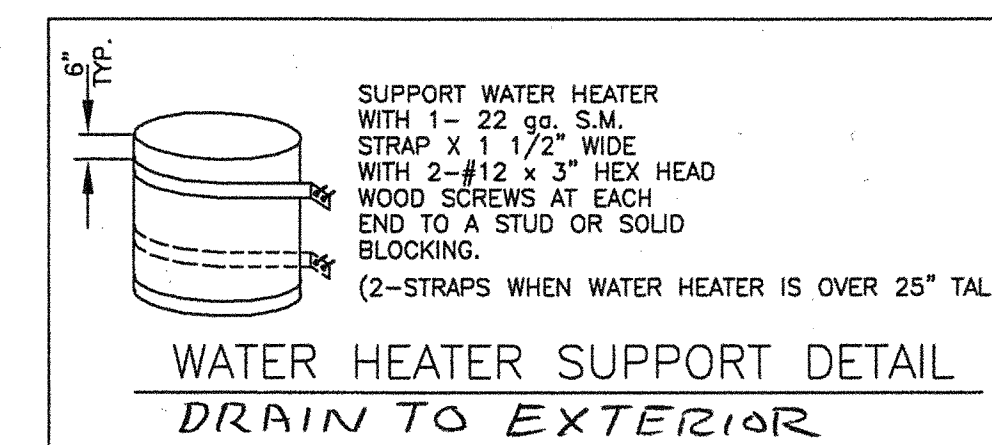
B
M1
HEAT/SUPPLY AIR DUCT LAYOUT
BUILDING TYPE A5
SERIAL # 05-100-743
05-100-744
05-100-749
SCALE: 1/4"=1'-0"



A
M1
HEAT/SUPPLY AIR DUCT CROSS SECTION
SCALE: 1/4"=1'-0"

TITLE 24 ENERGY COMPLIANCE SUMMARY			
PC # 02-104915	BUILDING DESCRIPTION: 24X40 Relocatable Building		
Note: See Title 24 Energy Compliance Report Booklet for More Details.	Manufacturer:	American Modular Systems	
	Zones:	14, 15 & 16	
Envelope Measures			
INSULATION		GLAZING	
Roof: R-19 (Batt)	Panes:	Dual U-Factor: 0.65	
Wall: R-11 (Batt)	Frames:	Metal SHGC: 0.34	
Floor: R-11 (Batt)	Tinting:	Solarban 60	
Lighting Measures			
Code:	Quantity:	Lamp/Ballast:	Total Watts:
A	8	(3) 4ft fluorescent TB Elec Tandem F32TB / Electronic	704
B	2	(3) 4ft fluorescent TB Elec	226
Controls for Credit: Occ Sensor > 250 sq ft			
Mechanical Measures			
Modular:	Type:	Qty:	OSA: Cooling Eff.: Heating Eff.:
24x40	BARD WH602-A	1	710 10.20 SEER 7.00 HSPF
HP T-Stat: <input type="checkbox"/> Electric Heat (KW): 0.0 kw. Duct Location: Conditioned Space			
Economizer: <input type="checkbox"/> Duct Insulation: R-4.2			

EXHAUST FAN					
MARK	DESCRIPTION	CFM	WATTS	S.P.	VOLT/PH
EF-1	EXHAUST FAN	110	1050	.10"	115-1#
NUTONE 672 CEILING MOUNTED 180W INPUT					



HVAC CFM CHART		
MODEL NUMBER	DISCRPTION	MAX. CFM
WH421-A	3 1/2 TON HEAT PUMP	1400
WH482-A	4 TON HEAT PUMP	1550
WH602-A	5 TON HEAT PUMP	1700

DUCT SUPPORT
Flex duct to be supported with 1-1/2" wide x 26 ga. galv. strap @ max 6'-0" o.c. Attach to rafter W/2 #8 SMS @ each end.
Supply air plenum to be supported with 1-1/2" wide x 26 ga. galv. straps min. 2 per plenum.
Supply air box and diffusers to be supported with (2) 12 ga. hanger wires to box @ opposite corners.
Supply air box and diffusers to be braced with (2) 12 ga. slack wires to box @ opposite corners. Attach supply air diffusers to ceiling grid to resist a lateral load equal to the weight of the diffuser and supply air box W/2 #8 SMS.

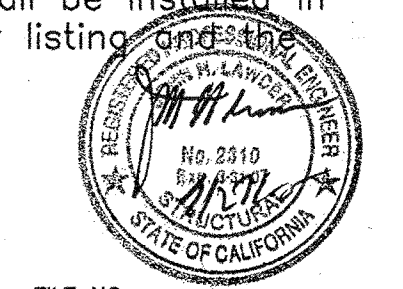
THESE DRAWINGS COMPLY WITH THE ENERGY CONSERVATION REQUIREMENTS OF TITLE 24 OF THE STATE OF CALIFORNIA

NOTE
STUB OUT LOCATIONS FOR WATER, WASTE AND GAS ARE DIAGRAMMATIC ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT THE FACE OF THE BUILDING.

GENERAL NOTES
HEATING VENTILATING AND AIR CONDITIONING (HVAC)
1. Heat Pump: Single package wall mounted air to air electric heat pump unit shall be rated in accordance with ARI Standard 240-77.
Reference Brands: BARD WH421A-XXXXXX
BARD WH482A-XXXXXX
BARD WH60A-XXXXXX
MAXIMUM AC SIZE FOR THIS BUILDING WILL BE A 5-TON UNIT
All units shall be 230/208 volt, 1 phase system, UL tested & approved or comparable and meet current energy standards.

- A.) The system shall maintain an automatically controlled indoor classroom temperature of 78 degrees F. When the outdoor dry bulb temperature varies between 100 degrees F. in the summer
- B.) The system must maintain the above temperature when the damper is adjusted to use approximately one third fresh air.
2. Ductwork.
A.) Construct all ductwork of galvanized sheet metal in accordance with C.M.C., Ashrae Guide Equipment volume and Smacna Low Velocity Duct Construction manual latest editions. All ductwork shall be insulated with 1" thick fiberglass duct wrap with vapor barrier. Provide 1" duct attenuation at all ductwork within 2'-0" of HVAC unit.
B.) Non-metallic ductwork option: In accessible concealed portions of duct system rigid 1" fiberglass or insulated flex-duct with vapor barrier may be substituted for sheet metal ductwork. All ductwork within 2' of the HVAC unit and all interface connections shall be metal. Ductwork and reinforcement shall be designed for 2" static pressure. Reference Brands: Owens-Corning fiberglass ductboard, 1" thick, and Micro-aire, TYPE 475. Non-metallic ductwork shall conform to NFPA 90-A and SMACNA Class 1 rating.
3. Air duct insulation and linings shall comply with flame spread less than or equal to 25, smoke generation less than or equal to 50.
4. Supply air diffusers shall be 675 CFM max. 12" round. 1" fiberglass or flexduct
ductwork specifically designed to provide air thermal cooling systems. 24"x8"x1" Micro-Aire type #475 Owens-Corning, Knaf, Certainteed, or equal and 90- B: UL #131 test, class 1 rating with "SMACNA".
Registers and diffusers: Provide three (Min) 4-way throw air diffusers as manufactured Cornes, Titus, Hart and Cooley, Metalair, Shoemaker, Barber-Coleman or Krueger commercial grade grills and registers
Air conditioning controls.
Thermostat: Provide electronic programmable thermostat. Thermostat shall have the following functions.
A.) 5 and 2 weekday/weekend programming with 4 separate time/temperature setting for 24-hour period.
B.) Key board lockout switch.
C.) Programmable display.
D.) 2-hour override minimum.
E.) Status Indicated Led's.
F.) Battery back-up.
Provide locking clear thermostat cover with thermostat cover with access hole for program override. White Rodgers IF92-371 @ +60° SEALED.
Thermal insulation
A.) Roof Insulation: R-19 Unfaced.
B.) Walls Insulation: R-11 Kraft Faced.
C.) Floors Insulation: R-11 Kraft Faced.
Flame spread and smoke development shall conform to California Building Code sec. 707.
5. Factory-made air ducts. Factory-made air ducts shall be approved for the use intended or shall conform to the requirements of U.M.C. Standard No. 6-1. Each portion of a factory-made air duct system shall be identified by the manufacturer with a label or other suitable identification indicating compliance with U.M.C. Standard No. 6-1 and its class designation. These ducts shall be listed and shall be installed in accordance with the terms of their listing and the requirements of UMC STD. 6-1.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
ACS DATE: 4/28/05



BASED ON PC 02-104915

24 X 40
RELOCATABLE
CLASSROOMS



CUSTOMER:
MOBILE MODULAR MANAGEMENT CORP.

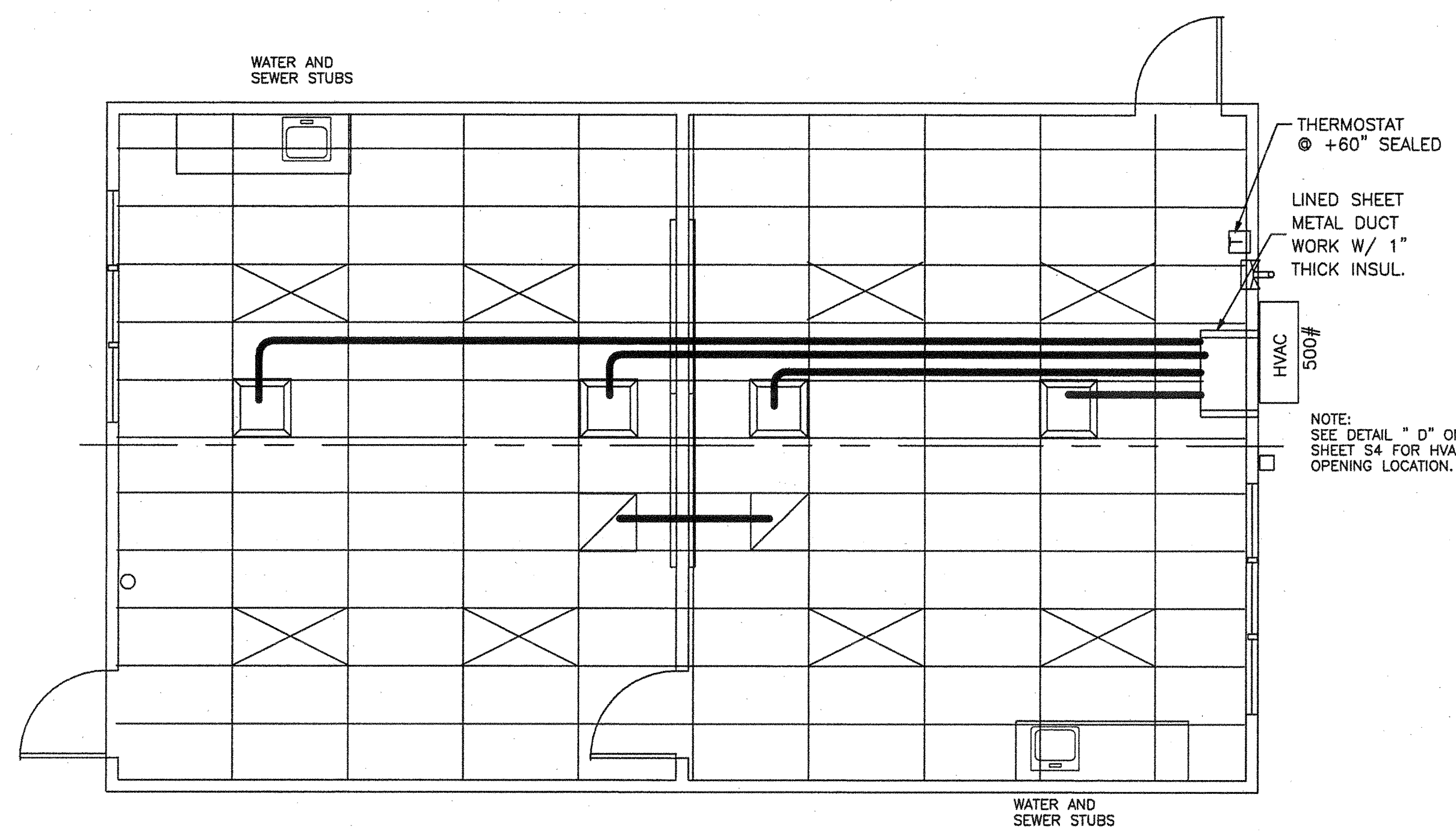
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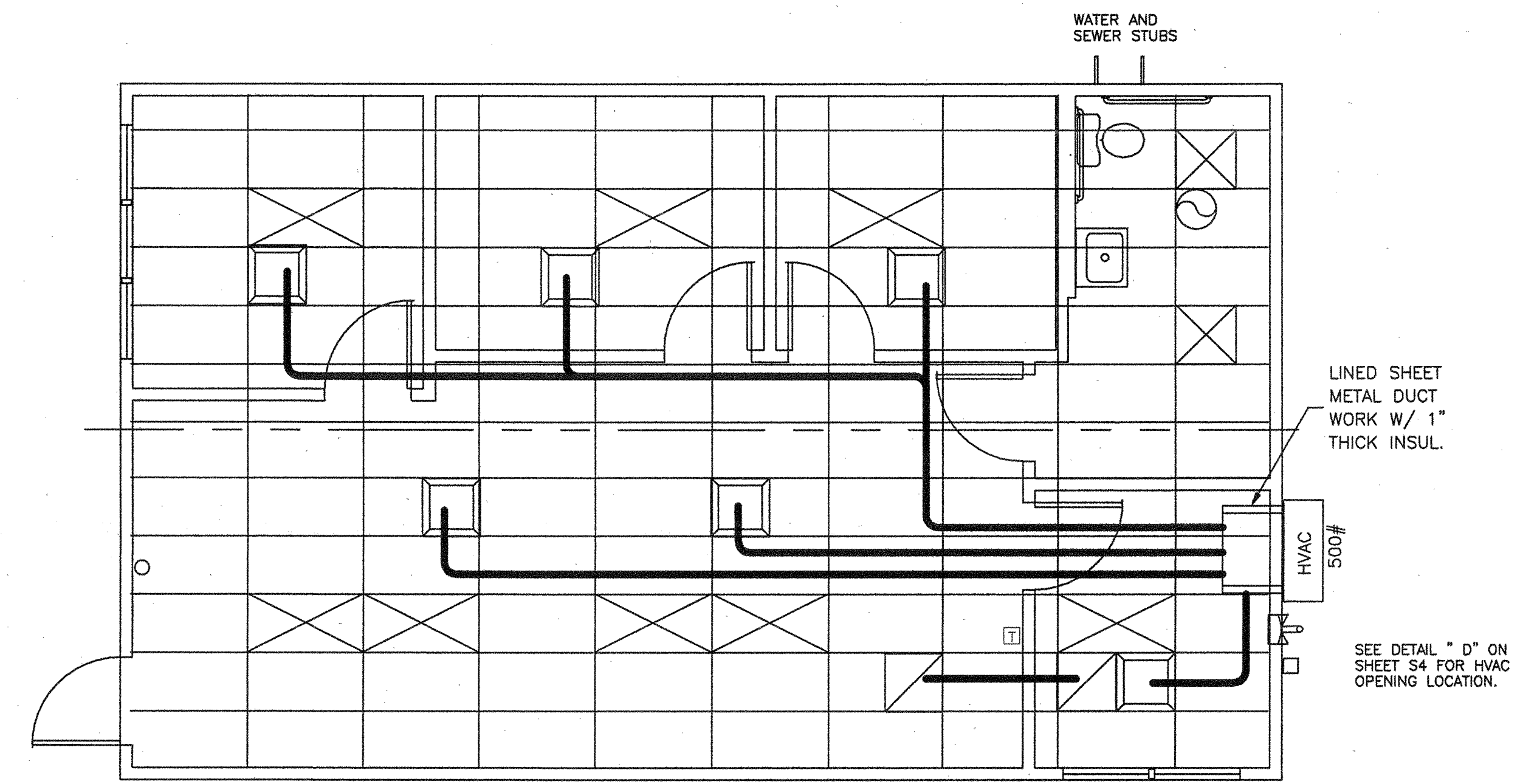
PROJECT No.

MECHANICAL PLAN & NOTES

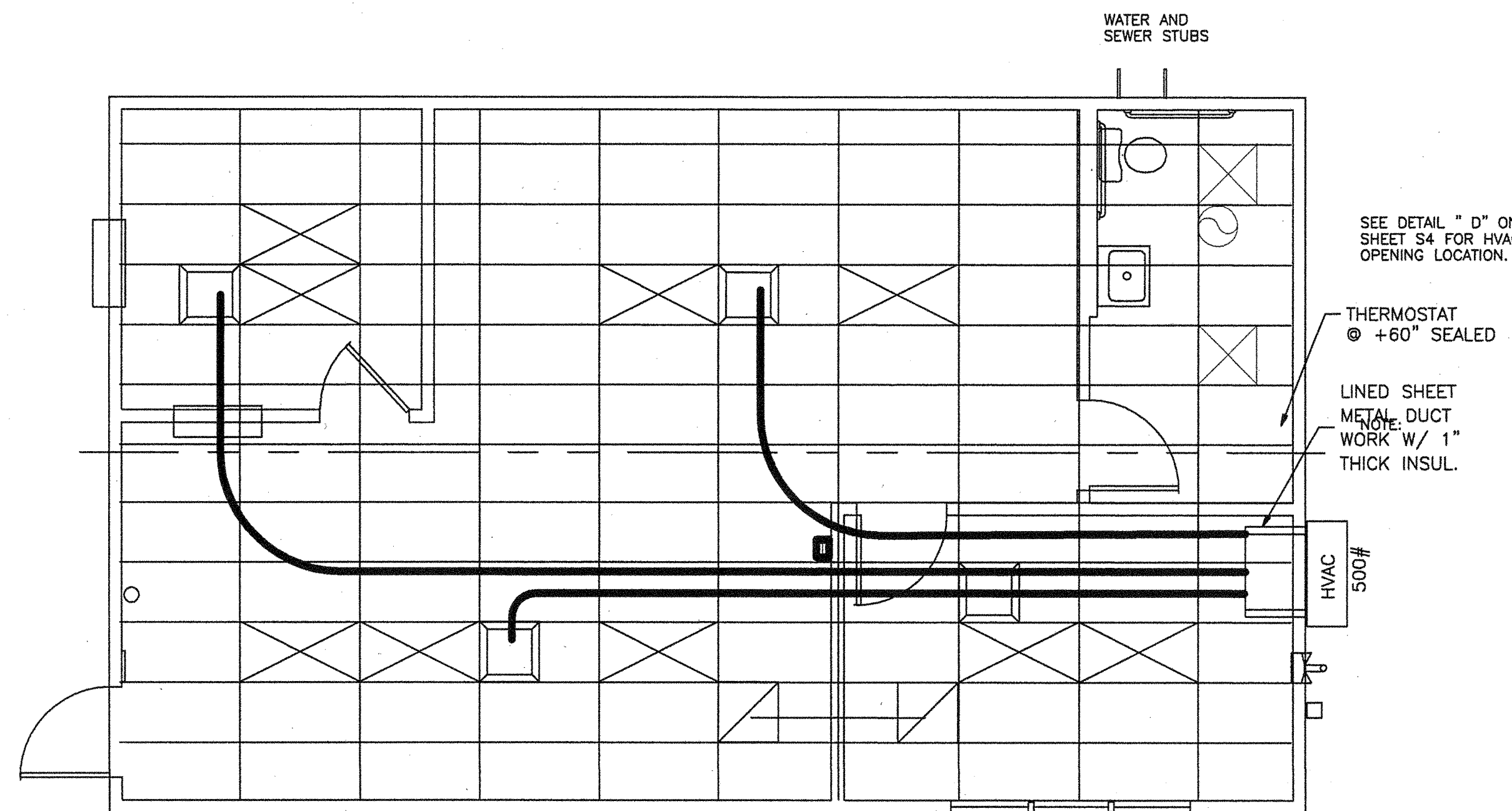
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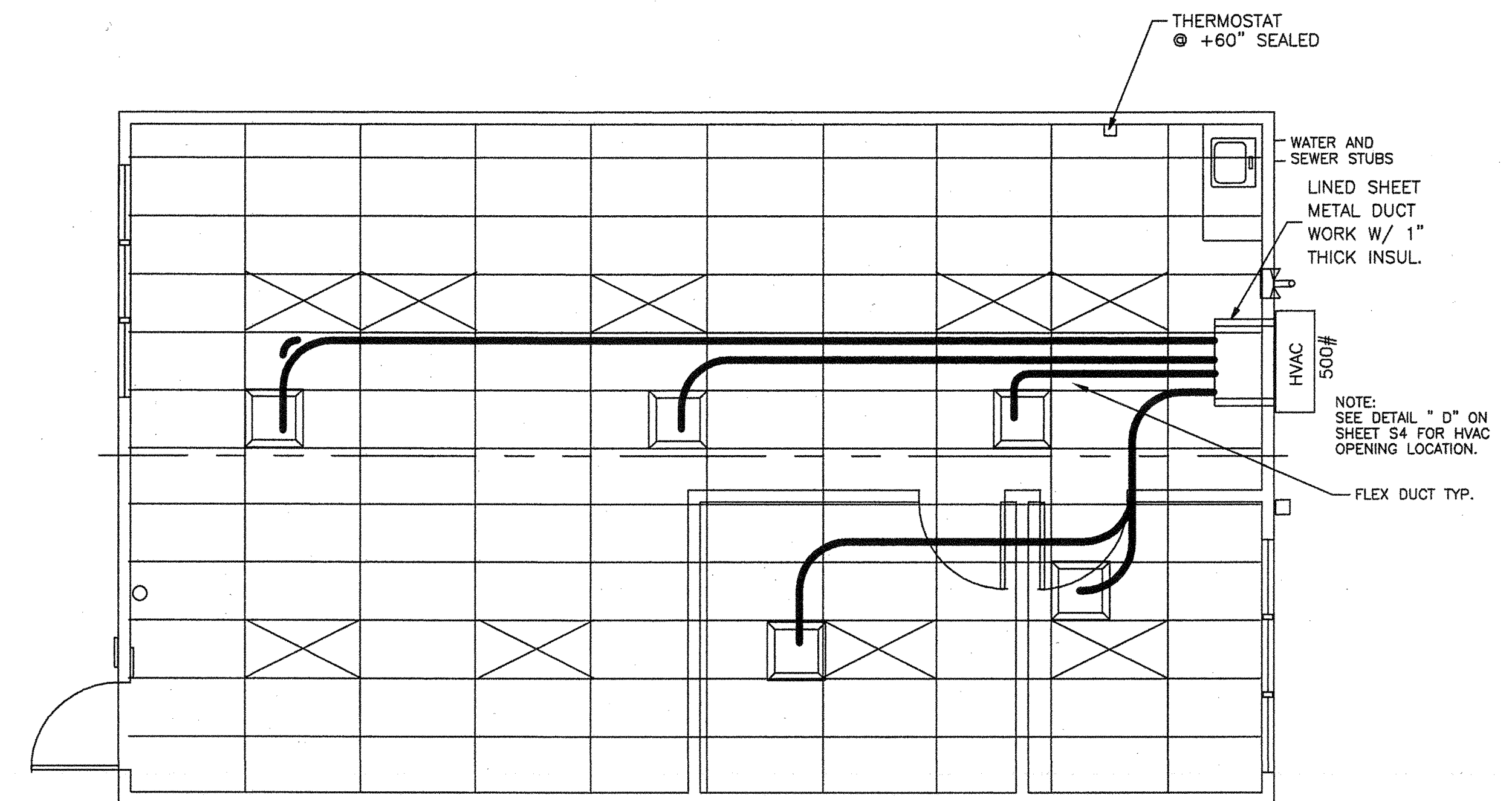
A
M1B HEAT/SUPPLY AIR DUCT LAYOUT
BUILDING TYPE A 5.1
SERIAL # 05-100-745
SCALE: 1/4"=1'-0"



C
M1B HEAT/SUPPLY AIR DUCT LAYOUT
BUILDING TYPE C
SERIAL # 05-100-747
SCALE: 1/4"=1'-0"



B
M1B HEAT/SUPPLY AIR DUCT LAYOUT
BUILDING TYPE B
SERIAL # 05-100-746
SCALE: 1/4"=1'-0"



D
M1B HEAT/SUPPLY AIR DUCT LAYOUT
BUILDING TYPE E
SERIAL # 05-100-748
SCALE: 1/4"=1'-0"

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APPL 01-117316
ACS _____ FLS _____ SSS D.M.
DATE 1/10/18



FILE NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-07162
ACS _____ FLS _____ SSS S.S.
DATE 4/28/05

BASED ON PC 02-104915

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RELOCATABLE
CLASSROOMS



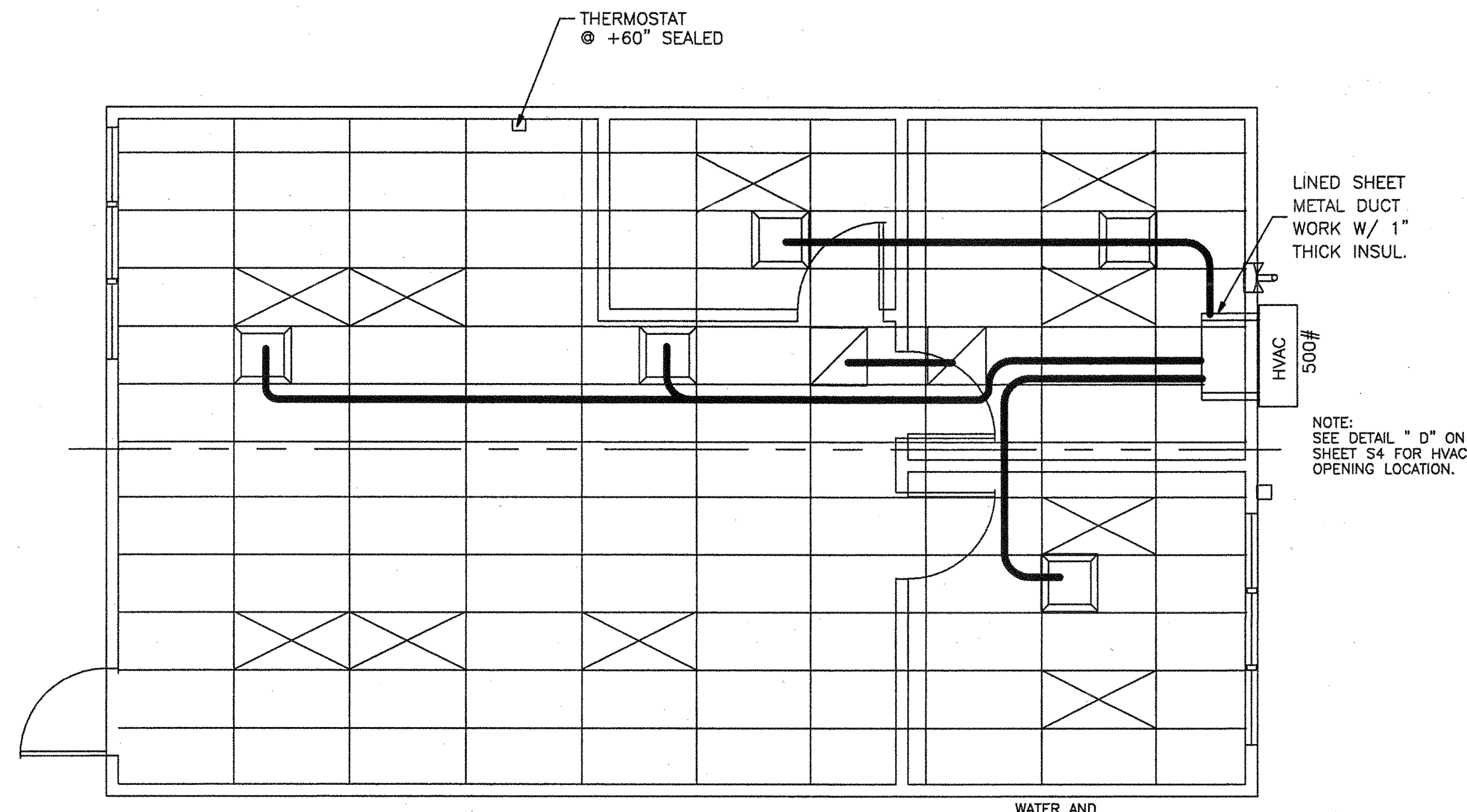
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MOBILE MODULAR MANAGEMENT CORP.

DATE: 04/25/05
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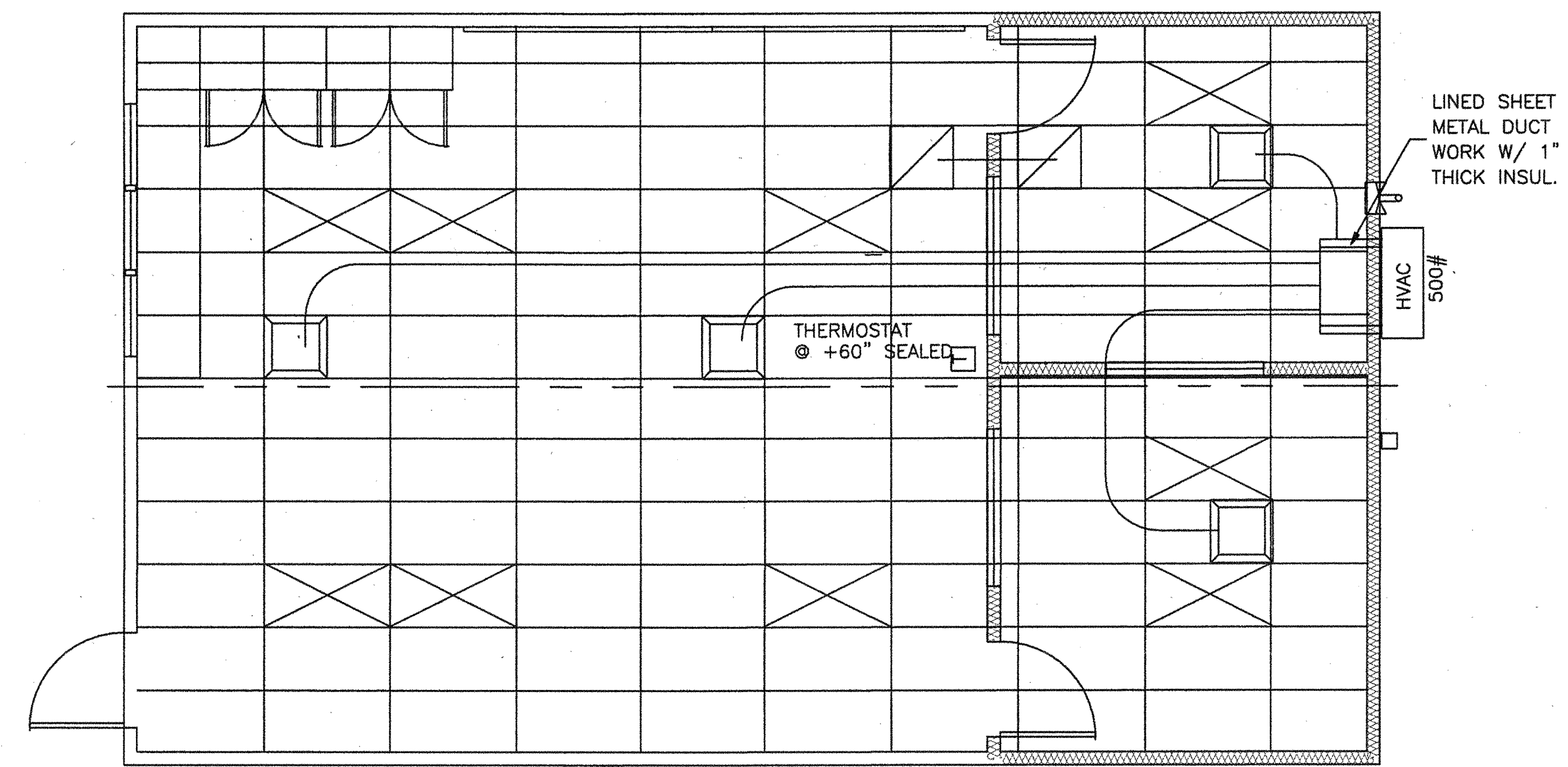
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PROJECT No.
SHEET No.
M1A

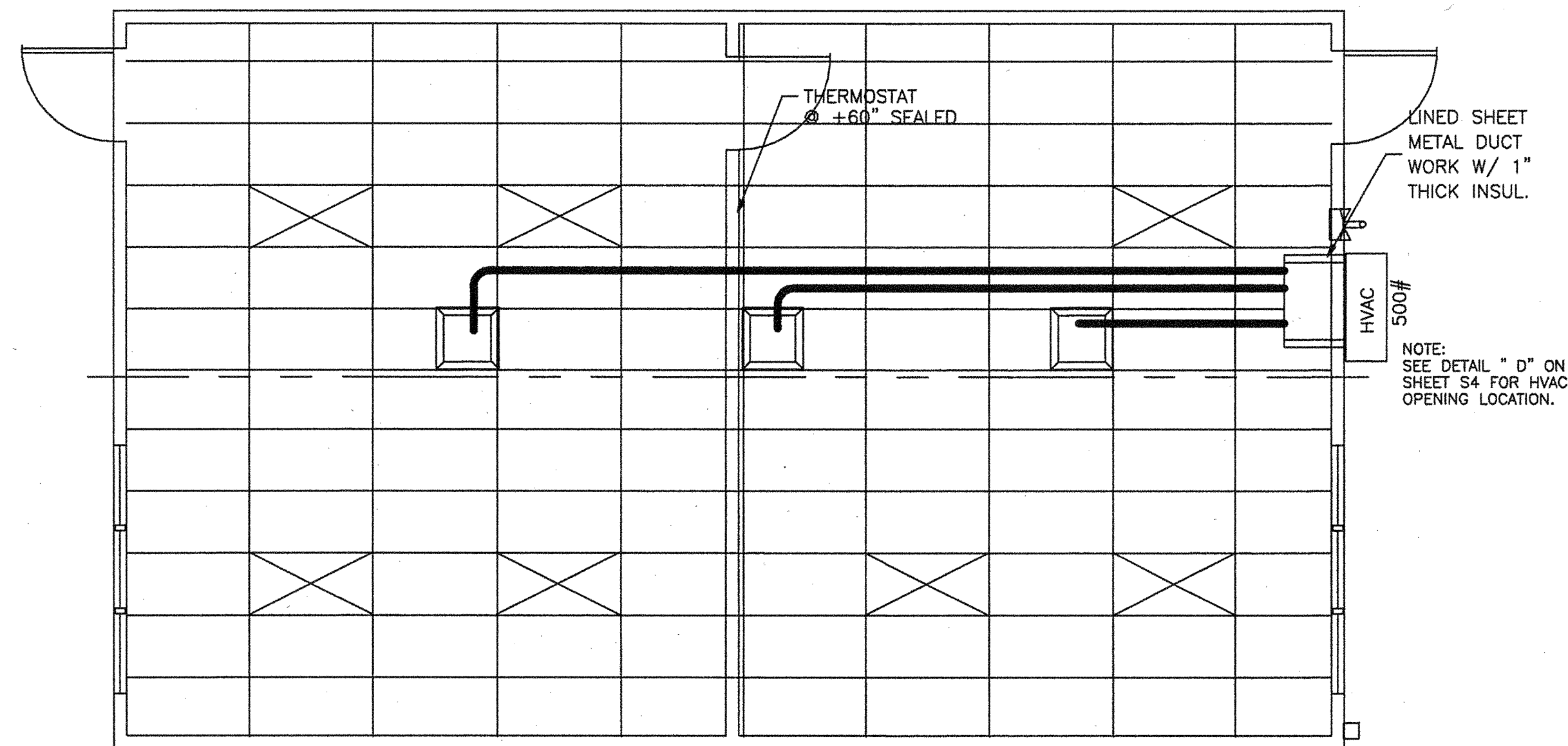
MECHANICAL PLAN & NOTES



A
M1B HEAT/SUPPLY AIR DUCT LAYOUT
BUILDING TYPE U SCALE: 1/4"=1'-0"



C
M1B HEAT/SUPPLY AIR DUCT LAYOUT
BUILDING TYPE Y & Y1 SCALE: 1/4"=1'-0"



B
M1B HEAT/SUPPLY AIR DUCT LAYOUT
BUILDING TYPE K SCALE: 1/4"=1'-0"

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
ADS — FILE — SSS — D.M.
DATE 4/28/05



FILE NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02/107162
AC. 1 FL 52 SS 74
DATE 4/28/05

BASED ON PC 02-104915

24 X 40
RELOCATABLE
CLASSROOMS



CUSTOMER:
MOBILE MODULAR MANAGEMENT CORP.

DATE: 04/20/05
SCALE: NONE
DRAWN BY: RS
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SERIAL NO.

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MECHANICAL PLAN & NOTES

Mechanical Mandatory Measures

- Equipment and Systems Efficiency**
- §111 Any appliance for which there is a California standard established in the Appliance Efficiency Regulations with comply with the applicable standard.
 - §115(a) Fan type central furnaces shall not have pilot lights.
 - §123 Piping, except that conveying fluids at temperatures between 60 and 105 degrees Fahrenheit, or within HVAC equipment, shall be insulated in accordance with Standards Section 123.
 - §124 Air handling duct systems shall be installed and insulated in compliance with Sections 601, 603 and 604 of the Uniform Mechanical Code.
- Controls**
- §122(e) Each space conditioning system shall installed with one of the following:
 - §122(E) Each space conditioning system serving building types such as offices and manufacturing facilities (and all others not explicitly exempt from the requirements of section 122(d)) shall be installed with an automatic time switch with an accessible manual override that allows operation of the system during off-hours for up to 4 hours. The time switch shall be capable of programming different schedules for weekdays and weekends; incorporate an automatic holiday "shut off" feature that turns off all loads for at least 24 hours, then resumes the normally scheduled operation; and has program backup capabilities that prevent the loss of the device's program and time settings for at least 10 hours if power is interrupted; or
 - §122(a) An occupancy sensor to control the operating period of the systems; or
 - §113(b) A 4-hour timer that can be manually operated to control the operating period of the system.
 - §122(e) Each space conditioning system shall be installed with controls that temporarily restart and temporarily operate the system as required to maintain a setback heating and/or a setup cooling thermostat setpoint.
 - §122(g) Each space conditioning system serving multiple zones with combined conditioned floor area more than 25,000 square feet shall be provided with isolation zones. Each zone: shall not exceed 25,000 square feet; shall be provided with devices, such as valves or dampers, that allow supply of heating or cooling to be setback or shut off independently of other isolation areas; and shall be controlled by a time control device as described above.
 - §122 (A&B) Each space conditioning zone shall be controlled by an individual thermostat control that responds to temperature within the zone. Where used to control heating, the control shall be adjustable down to 55 degF or lower. For cooling, the control shall be adjustable up to 85 degF or higher. Where used to control both heating and cooling, the control shall be capable of providing a dead band of at least 5F within which the supply of heating and cooling is shut-off or reduced to a minimum.
 - §122(c) Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint stops accessible only to authorized personnel.
 - §122(b) Heat Pumps shall be installed with controls to prevent electric resistance supplementary heater operation when the heating load can be met by the heat pump alone.

- Ventilation**
- §121(e) Controls shall be provided to allow outside air dampers or devices to be operated at the ventilation rates as specified in these plans.
 - §122(f) Gravity or automatic dampers interlocked and closed on fan shutdown shall be provided on the outside air intakes and discharges of all space conditioning and exhaust systems.
 - §122(f) All gravity ventilating systems shall be provided with automatic or readily accessible manually operated dampers in all openings to the outside, except for combustion air openings.
 - §121(f) Air Balancing: The system shall be balanced in accordance with the National Environmental Balancing Bureau (NEBB) Procedural Standards (1983), or Associated Air Balance Council (AABC) National Standards (1986); or
 - §121(f) Outside Air Certification: The system shall provide the minimum outside air as shown on the mechanical drawings, and shall be measured and certified by the installing licensed C-20 Mechanical contractor and certified by (1) the design mechanical engineer, (2) the installing licensed C-20 mechanical contractor, or (3) the person with overall responsibility for the design of the ventilation system; or
 - §121(f) Outside Air Measurement: The System shall be equipped with a calibrated local or remote device capable of measuring the quantity of outside air on a continuous basis and displaying that quantity on a ready accessible display; or
 - §121(f) Another method approved by the Commission.
- Envelope Mandatory Measures**
- §118(a) Installed Insulating Material shall have been certified by the manufacturer to comply with California Quality Standards for insulating material, Title 20
 - §118(c) All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of the Title 24, Part 2
 - §117(a) All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.
 - §116(b) Site Constructed Doors, Windows, and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).
 - §116(a) Manufactured Doors and Windows installed shall have air infiltration rates not exceeding those shown in Table Number 1-E of standards. manufactured fenestration products must be labeled for U-value according to NFRC procedures.
 - §118(e) Demising Walls in Nonresidential Buildings: The Opaque portions of rates not exceeding those shown in framed demising walls in nonresidential buildings shall have insulation with an installed R-value of no less than R-11 between framing members.

Mechanical Mandatory Measures - Cont.

- Service Water Heating Systems**
- §113(b) If a circulating hot water system is installed, it shall have a control capable of automatically turning off the circulating pump(s) when hot water is not required.
 - §113(b) Laboratories in restrooms of public facilities shall be equipped with controls to limit the outlet temperature to 110°F.
 - §113(b) Laboratories in restrooms of public facilities shall be equipped within of the following:
 - §113(b) Outlet devices that limit the flow of hot water to a maximum of 0.5 gallons per minute
 - Foot actuated control valves, and outlet devices that limit the flow of hot water to a maximum of 0.75 gallons per minute.
 - Proximity sensors actuated control valves, and outlet devices that limit the flow of hot water to a maximum of 0.75 gallons per minute
 - Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 0.25 gallons/cycle (circulating system).
 - Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 0.50 gallons/cycle (non-circulating system)
 - Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 0.75 gallons per minute, and 0.75 gallons/cycle (foot switches and proximity sensor controls).
- Pools and Spas**
- Pool and/or spa heating systems or equipment shall be installed only if the manufacturer has certified that the system or equipment meets the requirements of *114 and *115 of the Energy Efficiency Standards. Equipment shall not have a pilot light. All such systems shall be installed with at least 36" of pipe between the filter and the heater to allow for the future addition of solar heating equipment.
 - A cover shall be provided for outdoor pools.
 - A cover shall be provided for outdoor spas.
 - Pools shall be installed with directional inlets that adequately mix the pool water.
 - Pool circulation pump(s) shall be provided with a time switch that allows the pump to be set to run in the off-peak electrical demand period, and for the minimum time necessary to maintain the water in the conditions required by applicable public health standards.

Lighting Mandatory Measures

- §131(d) For every floor, all interior lighting systems shall be equipped with a separate automatic control to shut off the lighting. This automatic control shall meet the requirements of Section 119 and may be an occupancy sensor, automatic time switch, or other device capable of automatically shutting off the lighting.
- §131(d)2 Override for Building Lighting Shut-Off The automatic building shut-off system is provided with a manual, accessible override switch in sight of the lights. The area of override is not to exceed 5,000 square feet.
- §119(h) Automatic control Devices Certified All automatic devices specified are certified, all alternate equipment shall be certified and installed as directed by the manufacturer.
- §113(b) Fluorescent Ballast and Luminaries Certified All fluorescent fixtures specified for the project are certified and listed in the Directory. All installed fixtures shall be certified.
- §132 Tandem Wiring for One and Three Lamp Fluorescent Fixtures: All one and three lamp fluorescents fixtures are tandem wired with two lamp ballasts were required by Standards Section 132; or all three lamp fluorescents fixtures are specified with electronic high-frequency ballasts and are exempt from tandem wiring requirements.
- §131(a) Individual Room/Area Controls: Each room and area in this building is equipped with a separate switch or occupancy sensor device for each area with floor-to-ceiling walls.
- §131(b) Uniform Reduction for Individual Rooms All rooms and areas greater than 100 square feet and more than 0.8 watts per square foot of lighting shall be controlled with Bi-level switching for uniform reduction of lighting within the room.
- §131(c) Daylight Area Control All rooms with windows and skylights, that are greater than 250 square feet, and that allow for the effective use of daylight in the area shall have 50% of the lamps in each daylight area controlled by a separate switch; or the effective use of daylight cannot be accomplished because the windows are continuously shaded by a building on the adjacent lot. Diagram of shading during different times of year is included on plans.
- §131(f) Control of Exterior Lights Exterior mounted fixtures and served from the electrical panel inside the building are controlled with a directional photo cell control on the roof and a corresponding relay in the electrical panel.
- §131(e) Display Lighting: Display lighting Exterior mounted fixtures and served shall be separately switched on circuits that are 20 amps or less.

24 X 40
RELOCATABLE
CLASSROOMS



CUSTOMER: _____

ENERGY MANDATORY MEASURES

DATE: 08-12-03
SCALE: NONE
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CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS			
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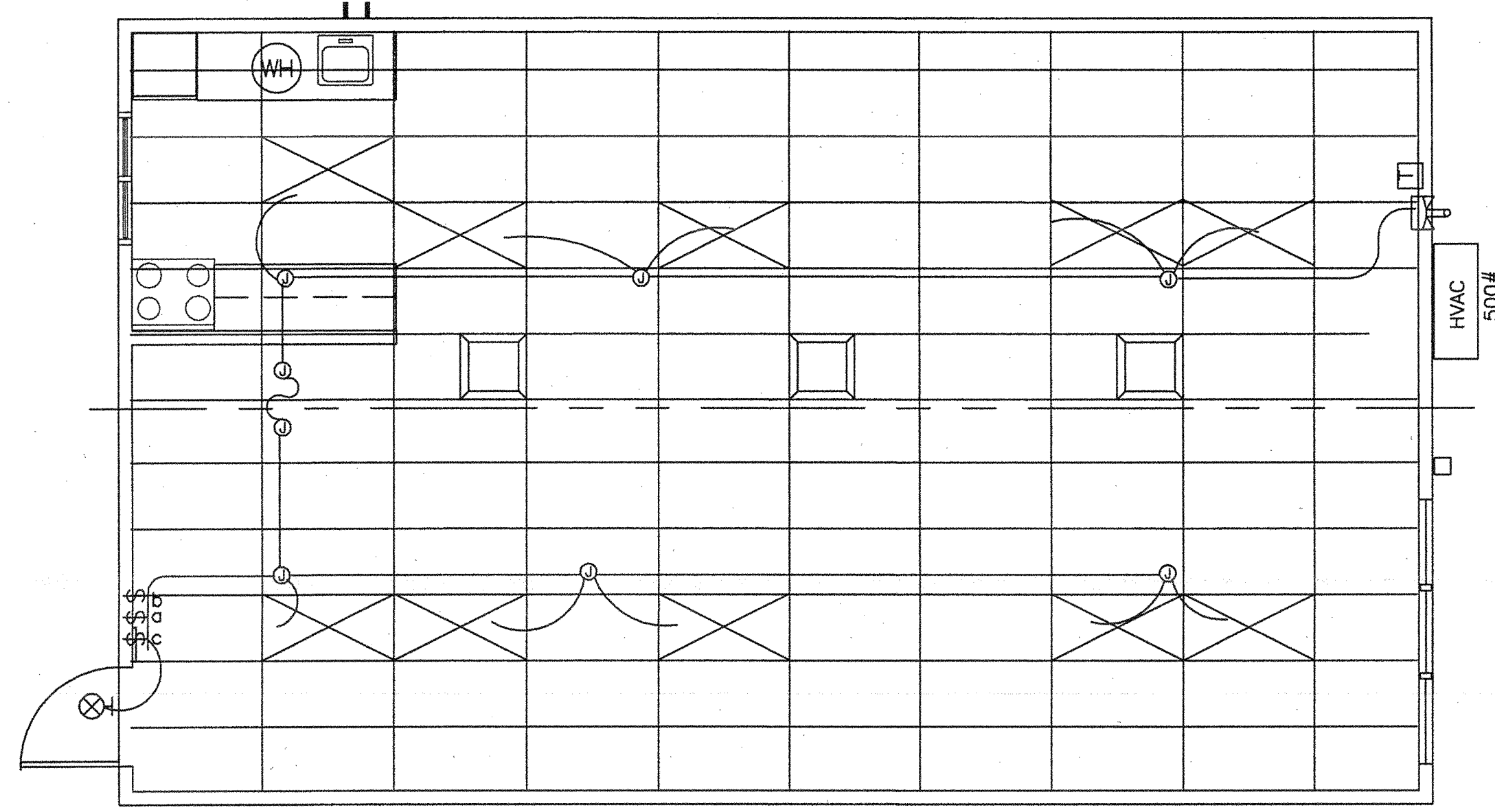
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DATE 1/10/18



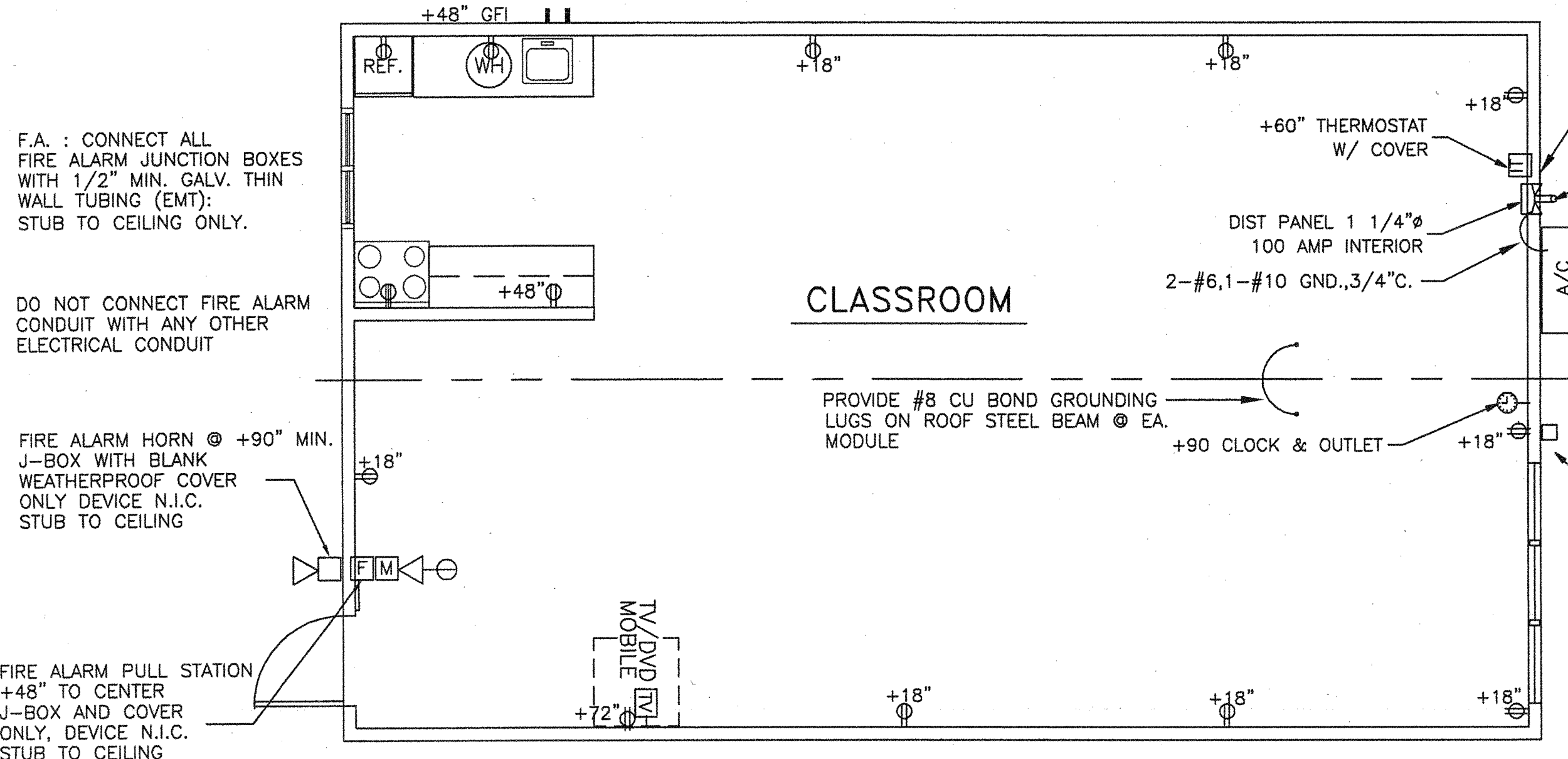
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OFFICE OF REGULATION SERVICES
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DATE 1/10/18

FILE NO. PC
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OFFICE OF REGULATION SERVICES
PC 02-104915
AC FLS SSS
DATE



1 LIGHT FIXTURE PLAN
 1/4" = 1'-0"
 BUILDING TYPE A5
 SERIAL # 05-100-743
 # 05-100-744
 # 05-100-749

The H.V.A.C. unit feeder circuit - panel circuit breaker, feeder wire, unit disconnect and fuses (where used) - is to be coordinated with the name plate data at the time of manufacture. H.V.A.C. units having KVA ratings larger than that indicated on this panel schedule will not be allowed to be installed on this building. If 60 degrees C. wire is to be used in this installation, calculations demonstrating ampacity be provided on the drawing.

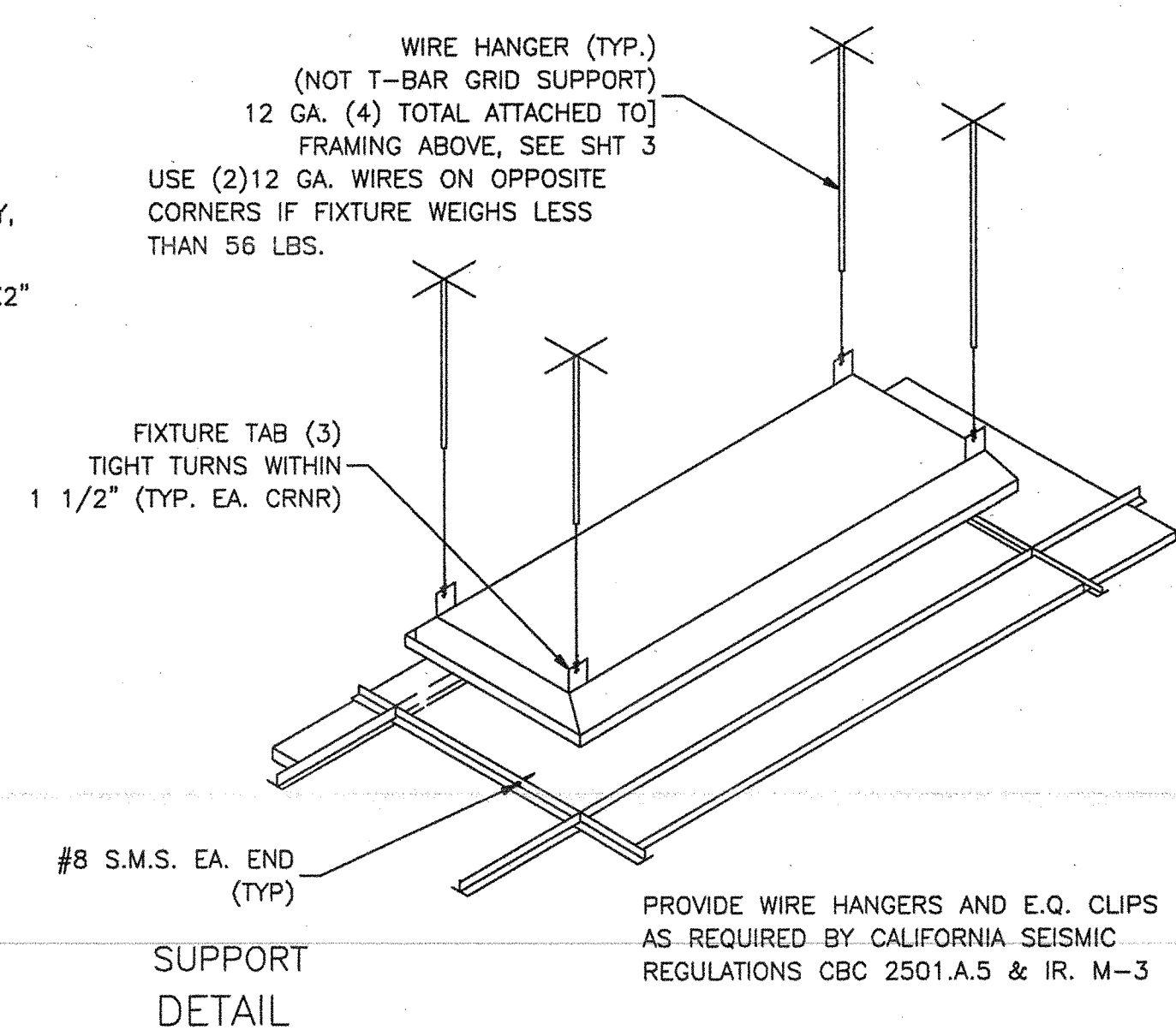


2 ELECTRICAL PLAN
 1/4" = 1'-0"
 BUILDING TYPE A5
 SERIAL # 05-100-743
 # 05-100-744
 # 05-100-749

FIRE ALARM
 Junction boxes - Galvanized sheet metal, square or rectangular with blank covers. Locate one box at rear of building near main electrical panel at +18" above finish floor for future connection.
 Covers - Install gasketed, metal, waterproof, finish covers at exterior locations. Install finish covers at interior locations.
 If testing results determine fire alarm audibility does not meet 15db over ambient noise levels, additional fire alarm signaling devices may be required by the enforcing agency

STANDARD ELECTRICAL SYMBOLS

- ☐ FLUORESCENT LIGHTING FIXTURE - SURFACE MOUNTED.
- ☐ FLUORESCENT LIGHTING FIXTURE - RECESSED.
- ☐ FLUORESCENT LIGHTING FIXTURE - WALL MOUNTED (EXTERIOR)
- ☐ INCANDESCENT LIGHTING FIXTURE - WALL MOUNTED (INTERIOR).
- ☐ DUPLEX WALL CONVENIENCE OUTLETS +18".
- ☐ SINGLE POLE LIGHT SWITCHES +48", HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- ☐ ELECTRICAL CROSSOVER J-BOXES ABOVE T-BAR CEILING #1-4"x1", #22 4"x2"
- ☐ WALL CLOCK OUTLET WITH POWER OUTLET +84".
- ☐ SWITCH SUBSCRIPTS - α-DEVICE CONTROLLED.
- ☐ 15 AMP DUPLEX RECEPTACLE +18".
- ☐ JUNCTION BOX - SIZE AND TYPE AS REQUIRED.
- ☐ PANELBOARD - SEE SCHEDULE.
- ☐ TERMINAL CABINET - SIZE AND TYPE AS NOTED.
- ☐ CONDUIT CONCEALED IN CEILING OR WALL.
- ☐ CONDUIT CONCEALED BELOW FLOOR OR GRADE.
- ☐ HOMERUN TO RESPECTIVE PANEL TO TERMINAL.
- ☐ INDICATES 1#14 (GREEN) GROUND WIRE, OTHER SIZES AS INDICATED.
- ☐ BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION IS A 2#14 WIRE CIRCUIT. FOR MORE THAN 2#14 WIRES AS FOLLOWS, -III- 3#14, -IIII- 4#14 ETC. FOR OTHER SIZES AS FOLLOWS, -III- 3#10, -IIII- 4#6 ETC.
- Ⓐ FIXTURE IDENTIFICATION - LETTER INDICATES TYPE.
- N.I.E.S. ABBREV. FOR NOT IN ELECTRICAL SECTION OF THESE PLANS AND SPEC'S.
- MT ABBREV. FOR EMPTY CONDUIT WITH POLY PULL CORD.
- ☐ FUSED DISCONNECT SWITCH SIZE AS REQUIRED. PROVIDE FUSES AS RECOMMENDED BY EQUIPMENT SUPPLIER.
- [W.E.F.] WALL MOUNTED EXHAUST FAN N.I.E.S. CONNECT AS REQUIRED.
- 50 AMP 250 VOLT RANGE RECEPTACLE.
- ☐ FIRE ALARM STATION - OUTLET ONLY, 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48" CENTERLINE
- ☐ FIRE ALARM HORN - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +90" MIN. AND NOT LESS THAN 6" BELOW FINISHED CEILING.
- ☐ FIRE ALARM VISUAL ALARM - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER BOTTOM +80". A.F.F. BUT NO GREATER THAN +98". IF CEILING MOUNTED PER NFPA72 TABLE 6-4.4.1(b).
- ☐ SPEAKER - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +84"
- ☐ INTERCOM TELEPHONE - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48"
- ☐ FIRE ALARM MINI HORN - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +90" MIN. AND NOT LESS THAN 6" BELOW FINISHED CEILING.



SYMBOL	DESCRIPTION	WATTS	MANUFACTURER
☐	2'x4" FLUORESCENT DROP IN FIXTURE, ACRYLIC PRISMATIC LENS. T-8 ELECTRONIC BALLASTS (3)35 WATT TUBES, WT. 27 LBS.	32 W	CRESCENT MASTER 24GP332FSA11K0YU1 SLAVE 24GP332FSA11XXV6
☐	FLUORESCENT SURFACE MOUNTED EXTERIOR LIGHT WITH IMPACT RESISTANT ENCLOSURE .125 THICK CLEAR PRISMATIC ONE PIECE LENS W/ NEOPRENE GASKET & "POSGRIP" STAINLESS STEEL SCREWS.	(2) 7W TT 2700 K	KENALL 3714 OR LITHONIA 202 2/7PL LP

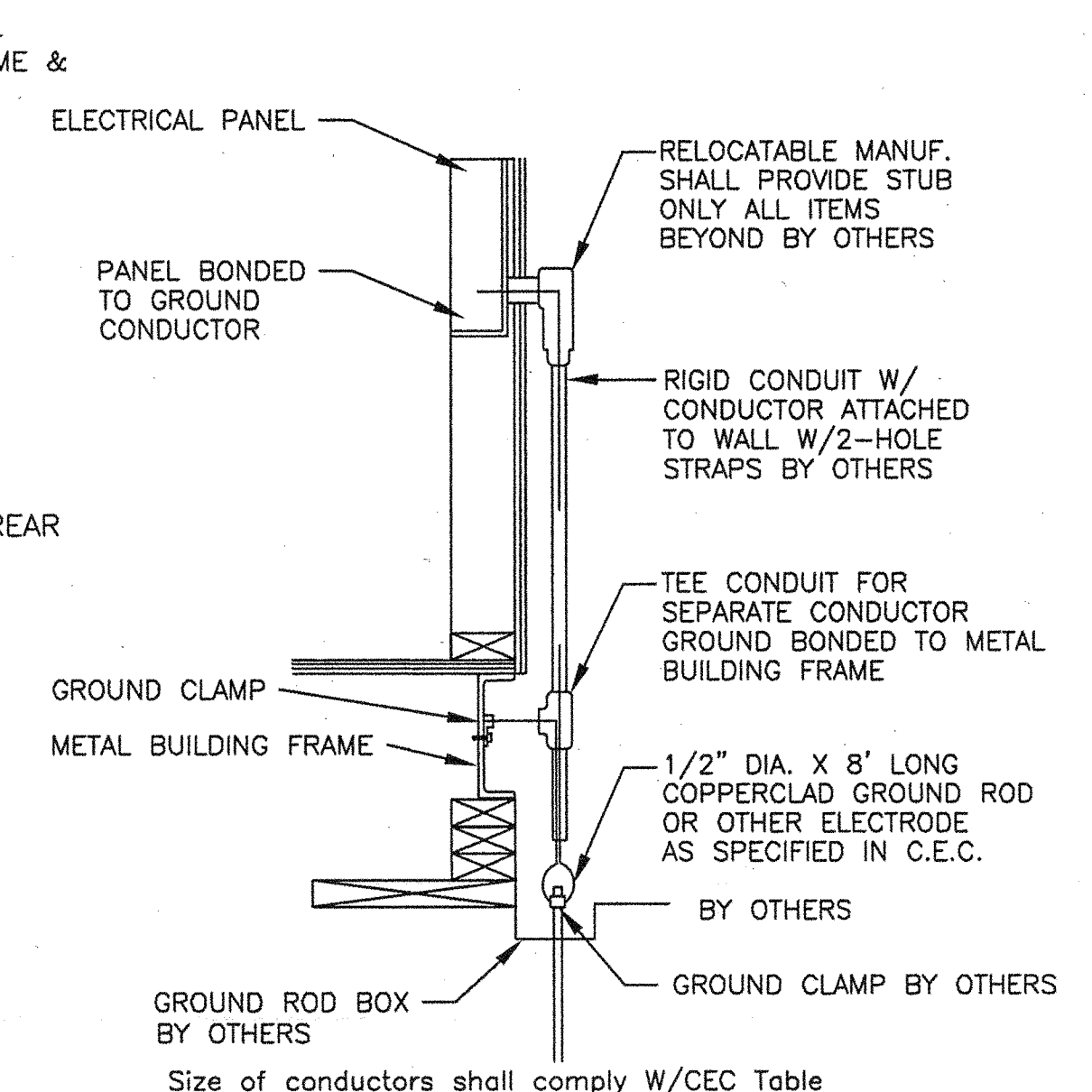
SEE TYPICAL CLASSROOM LAYOUT FOR LOCATIONS OF ALL DEVICES.
 FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.
 THE LIGHTS FOR EACH ROOM OVER 250 SQUARE FEET SHALL BE CONTROLLED BY ULTRASONIC OCCUPANCY SENSOR, WATT STOPPER W-500A, W-1000A, OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE. IN CONJUNCTION WITH BI-LEVEL SWITCHING.

- FIRE ALARM SYSTEM**
- THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE
 - INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE DIVISION OF THE STATE ARCHITECT. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.

- GENERAL NOTES**
- GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC FOUNDATION IS USED.
 - ALLOW FOR 12" MOVEMENT IN ANY DIRECTION IF PAD FOUNDATION IS USED.
 - PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
 - PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.

- FIXTURE NOTES:**
- ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
 - LUMINAIRE/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE TITLE 24.
 - FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.

- ELECTRICAL**
- Electrical service drop and connections supplied by others.
 - Manufacturer to provide stub-out from back of electrical panel through the exterior wall for receiving either underground or overhead service & fitting for grounding cable.
 - Electrical panel board shall be recessed mounted inside the building. Sized to accommodate all connected loads including spaces as shown. Overcurrent protective devices in the panel boards have adequate short circuit interrupting capacity. All buses including bus shall be copper or aluminum.
 - 2x4 fluorescent fixtures shall be steel frame, lens shall be hinged and locked in place by two locking devices. The lens diffusers shall be KHS, Inc. #KSH-12, Corlite, Inc. #C-12 or Plaskolite, Inc. #PL21A. Minimum lens thickness shall be .125 inch.
 - Fluorescent ballast shall be energy saver while maintaining full light output, class "P" equipped with thermal protectors, guaranteed against failure for (2) years and be replaced from inside the fixture.
 - Clock - 12" dial clock on clock outlet.
 - A) Clock shall be General Electric model 2912 129V 60 cycle
 - B) Clock outlet shall be Bryant #2828 or equal with separable hanging clip & app'd recept.



Size of conductors shall comply W/CEC Table Bond separate conductors from ground rod to electrical panel & metal building frame. In addition to the detail shown above, bond the electrical ground to metal water pipe embedded @ least 10' into the soil if available.
 Electrical bond modules together W/#8 CU @ midline. By manufacturer. Check resistance to ground. If resistance exceeds 25 OHMS, install additional ground rods as required. Grounding detail per I-R M-3 INSPECTOR TO WITNESS GROUNDING TEST.

120/208 VOLT IS EXCEPTABLE

LOAD	120/240 SINGLE PHASE PANEL: A				FEED: EXTERIOR LB MOUNTING: FLUSH				
	A	B	AMP	BRK	A	B	AMP	BRK	
LIGHTS, FLUORESCENT	570	15	1	1	2	2	70	6600	
LIGHTS, FLUORESCENT	570	15	1	3	4	2	70	6600	
EXTERIOR LIGHT & CLOCK	100	15	1	5	6				
DUPLEX RECEPT.	720	15	1	7	8				
DUPLEX RECEPT.	720	15	1	9	10				
SPACE				11	12				
SPACE				13	14				
SPACE				15	16				
PHASE WATTAGE	1390	1290	17	18	6600	6600		PHASE WATTAGE	
TOTAL WATTS "A" LEG: 7990					TOTAL WATTS A+B=15880	TOTAL WATTS "B" LEG 7890			
TOTAL WATTS: 15880	67 AMPS 120/240V SINGLE PHASE				100AMP BUS.				

FEEDERS: TO BE RUN BY THE DISTRICT EITHER UNDERGROUND OR OVERHEAD, SEE SITE ELEC. PLAN.

3 ELECTRICAL DISTRIBUTION PLAN
 1/4" = 1'-0"

NOTE
 STUB OUT LOCATIONS FOR ELECTRICAL PANEL, FIRE ALARM, AND DATA BOXES. LOCATIONS SHOWN ARE DIAGRAMMATICAL ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT FACE OF BUILDING.

24 X 40
 RELOCATABLE
 CLASSROOMS



CUSTOMER:
 MOBILE MODULAR MANAGEMENT

DATE: 04-26-05
 SCALE: NONE
 DRAWN BY: MP
 CHECKED BY:
 CHECKED BY:
 SERIAL NO.

ELECTRICAL PLAN & NOTES

REVISIONS					
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

IDENTIFICATION STAMP
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APPL 01-117316

ACS DATE 11/18

FILE NO. 02-07162

AC 4 FLS. 8 SSS 24

DATE 4/23/05

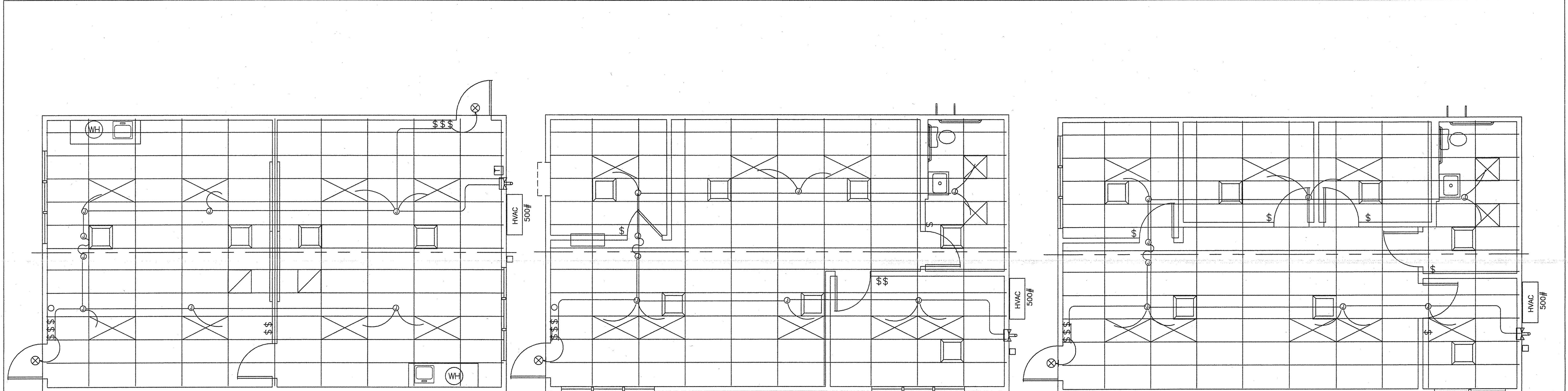
BASED ON PC# 02-104915

PROJECT NO.
 SHEET No.
 E1

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 DIVISION OF THE STATE ARCHITECT

APPL 01-117316

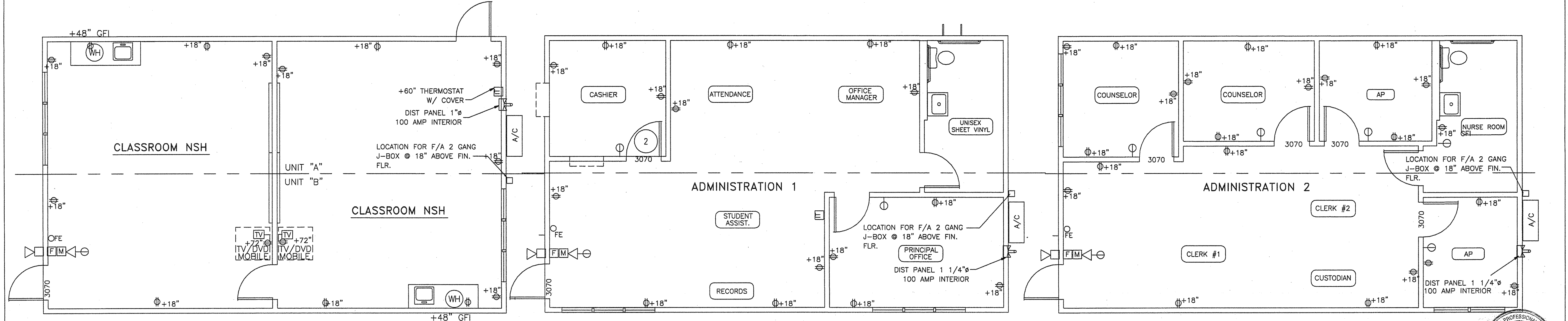
ACS DATE 11/18



1 LIGHT FIXTURE PLAN A5.1
E1A 1/4" = 1'-0" SERIAL # 05-100-745

3 LIGHT FIXTURE PLAN B
E1A 1/4" = 1'-0" SERIAL # 05-100-746

2 LIGHT FIXTURE PLAN C
E1A 1/4" = 1'-0" SERIAL # 05-100-747

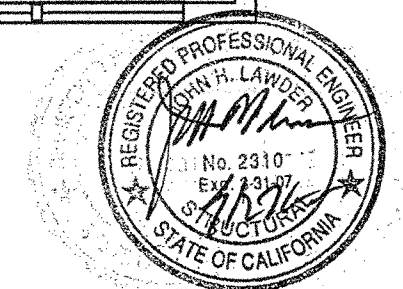


1 ELECTRICAL PLAN A5.1
E1A 1/4" = 1'-0" SERIAL # 05-100-745

3 LIGHT FIXTURE PLAN B
E1A 1/4" = 1'-0" SERIAL # 05-100-746

2 ELECTRICAL PLAN C
E1A 1/4" = 1'-0" SERIAL # 05-100-747

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APPL 01-117316
ACS _____ FLS _____ SSS D.M.
DATE 4/28/05



FILE NO.
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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-107162
AC 1 FLS 2 SSS 52
DATE 4/28/05

BASED ON PC# 02-104915

24 X 40
RELOCATABLE
CLASSROOMS



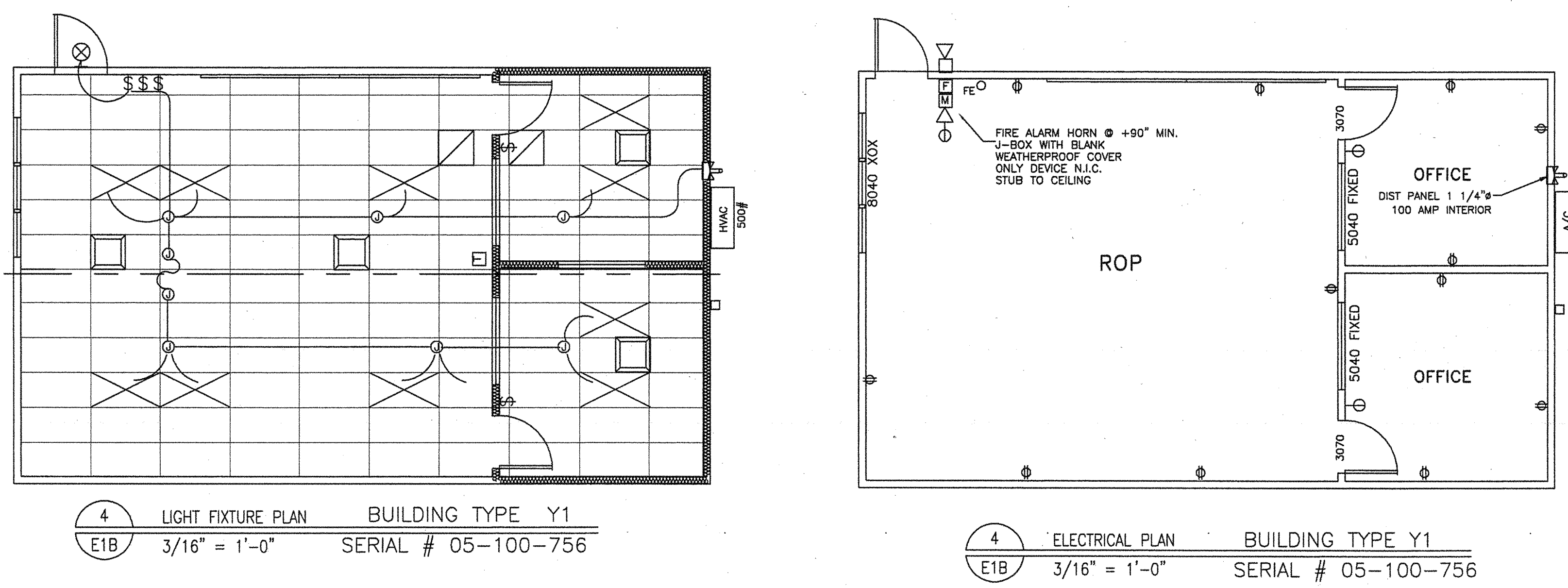
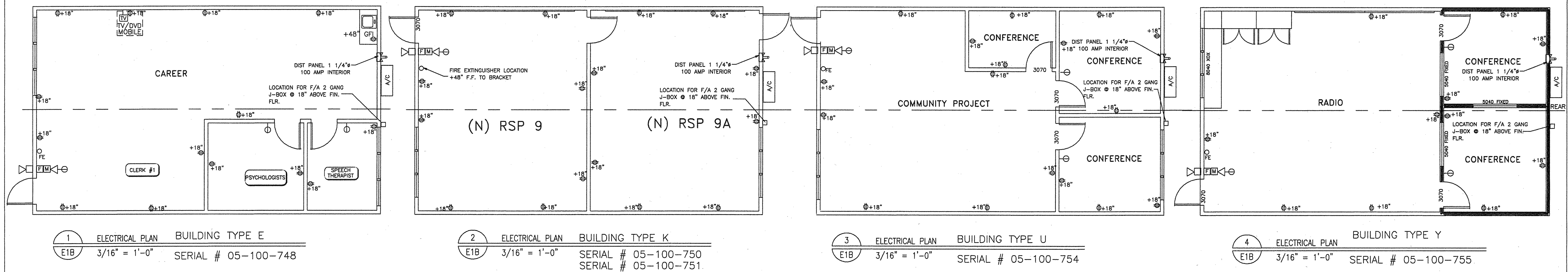
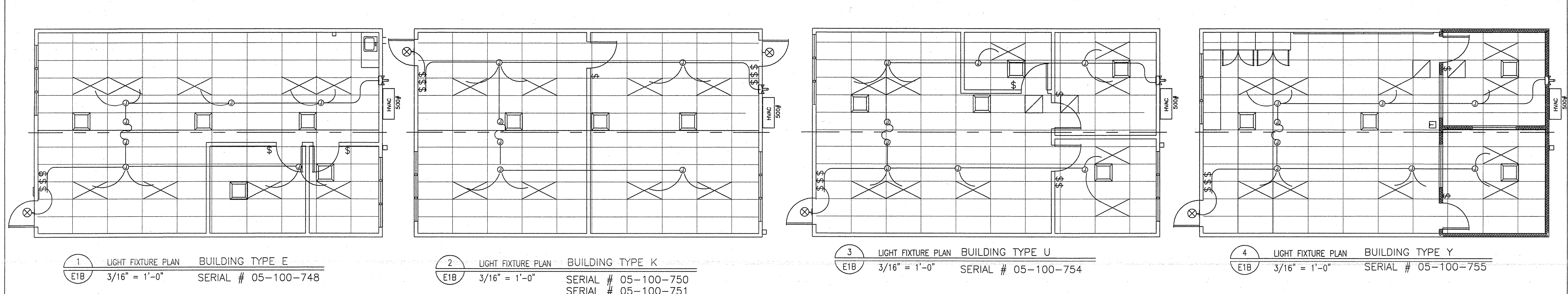
CUSTOMER:
MOBILE MODULAR MANAGEMENT

ELECTRICAL PLAN & NOTES

DATE: 04-28-05
SCALE: NONE
DRAWN BY: NP
CHECKED BY:
SERIAL NO.

REVISIONS					
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
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PROJECT No.
SHEET No.
E1A



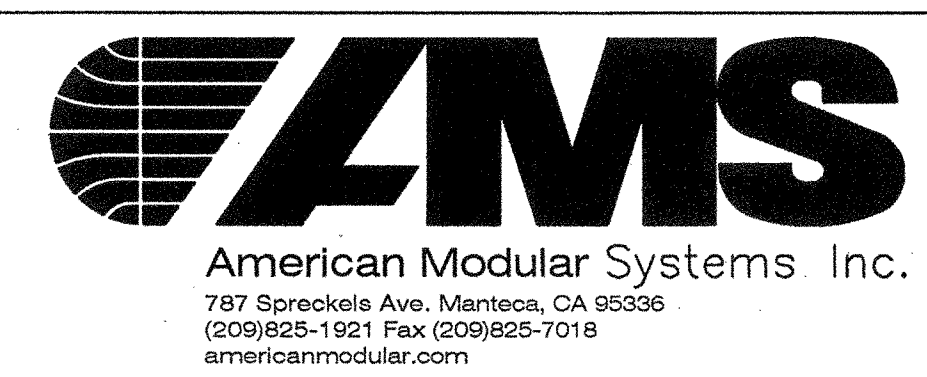
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
DATE 4/10/18



FILE NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-107162
AC. FLS. SS. 34
DATE 4/23/05

BASED ON PC# 02-104915

24 X 40
RELOCATABLE
CLASSROOMS



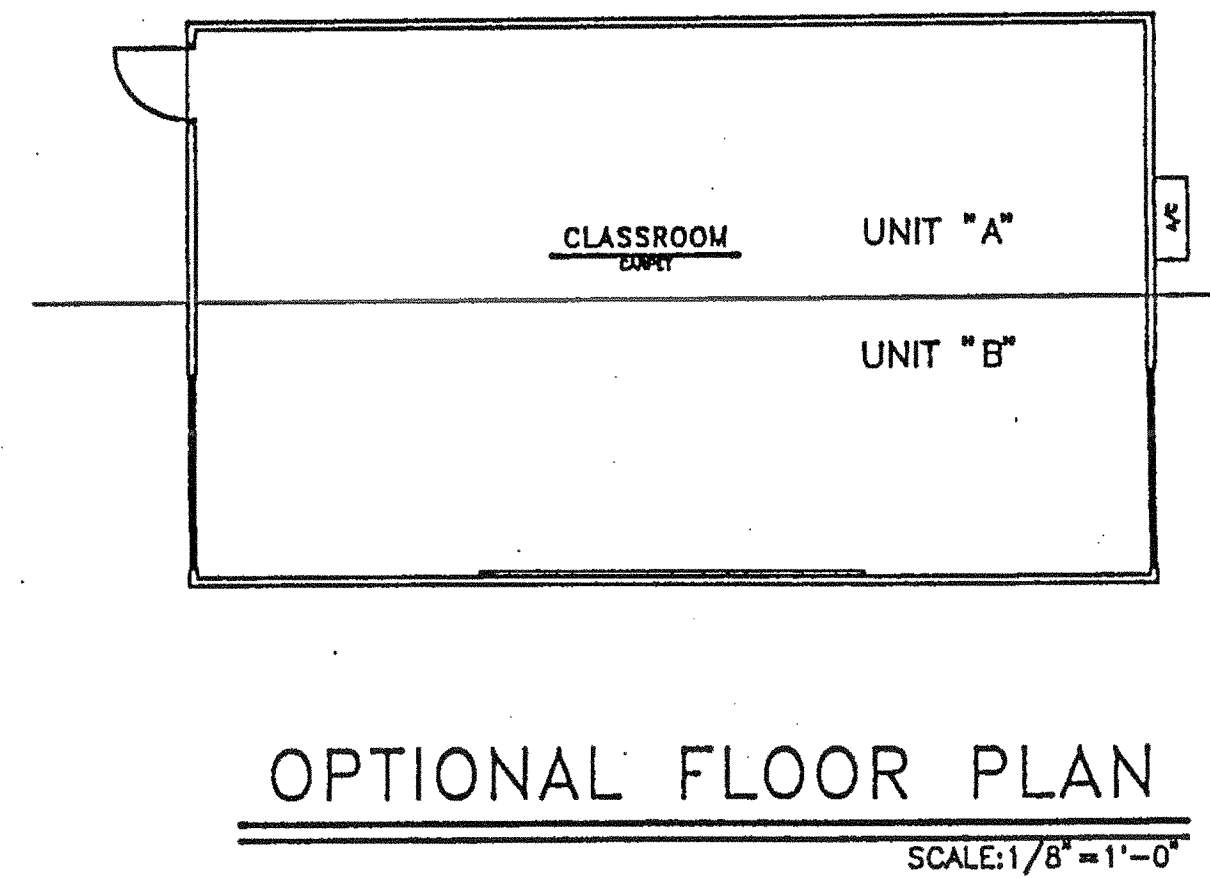
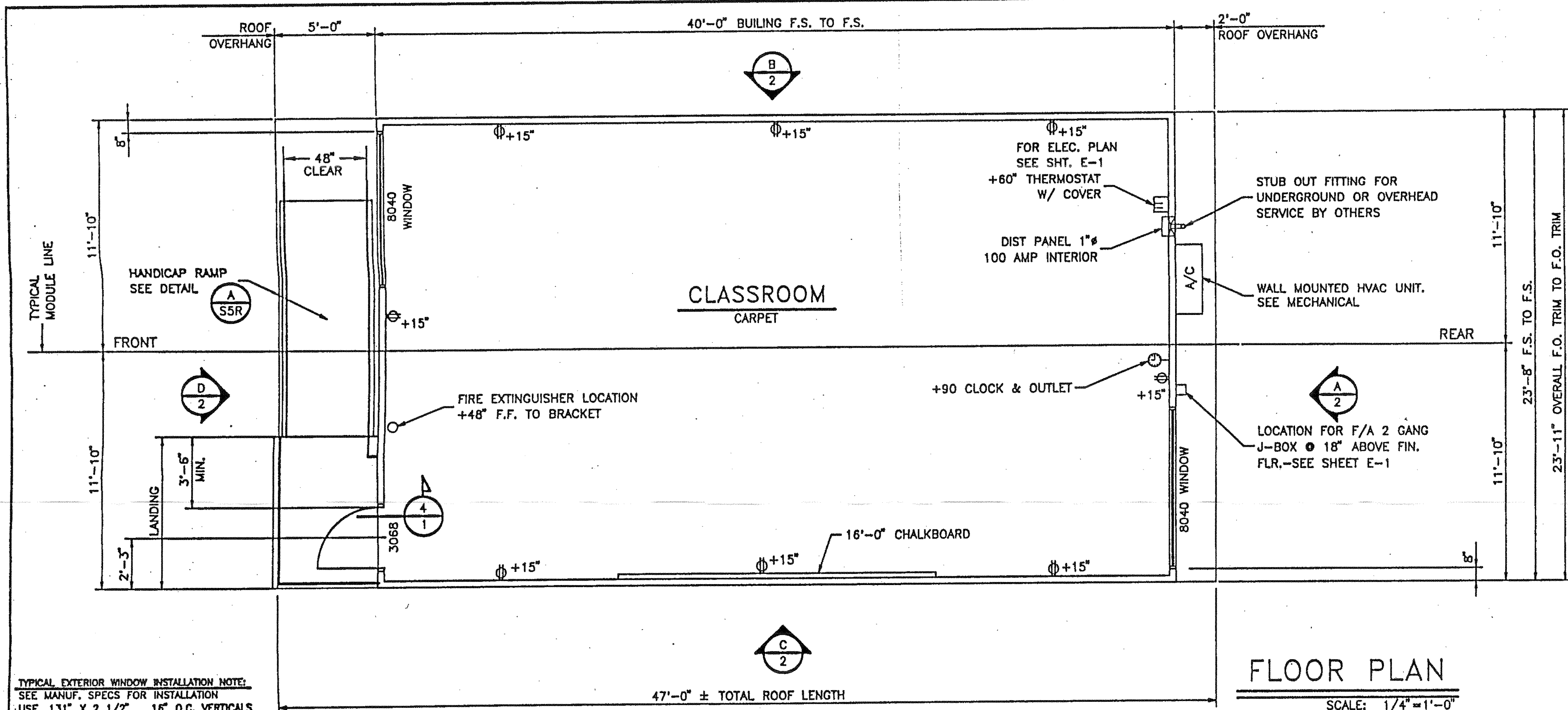
CUSTOMER:
MOBILE MODULAR MANAGEMENT

ELECTRICAL PLAN & NOTES

DATE: 04-26-05
SCALE: NONE
DRAWN BY: MP
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS					
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
1			1		
2			2		
3			3		

PROJECT No.
SHEET No.
E1B



NOTES

INTERIOR

- Floor: Carpets - Units shall be carpeted as indicated on floor plan with direct glue down type per State of California Specification 7220-XXX-01, Group 1, Type A, Class 26. Color will be selected by District after award of bid. The carpet density shall be 4600 minimum. Pile yarn shall be branded nylon. No cross seams shall be allowed.
- Base: Resilient Cove Base - Best quality, moulded rubber, 1/8" thick, 4" high, moulded top set. Provide preformed base for square external corners and preformed end stops where base does not abut. Solid color as manufactured by Johnsonite Co., Itasca, or equal. Apply cove to complete perimeter of classroom.
- Interior walls shall be vinyl covered lockboard U.N.O. applied in one continuous length from floor to ceiling. The lockboard shall be industrial insulation board manufactured specifically as a substrate for vinyl covered wall panels. The board shall be opholt free, shall have an inorganic coating and shall have a minimum density of 18 lbs. per ft. The vinyl coating shall be made of virgin vinyl colorized base color, weighing a minimum of 8 oz. per square yard. The coating backing shall be sheathing or non-woven fabric. The vinyl coating shall be mechanically laminated, with the long edges wrapped, to the lockboard. Lockboard shall be applied over 1/2" sheetrock or 3/8" plywood sheathing. The vinyl wall covered panels shall have a Class B flame spread rating. The panel shall be approved for classroom use by the California State Fire Marshal. Reference brand: Vinyl covered lockboard as manufactured by Chalfield-Corke or comparable. Care shall be taken in mounting the lockboard so that the texture of all panels will have the same orientation and color match.
- Ceiling: Suspend T-Bar System, see sheet 3 for details etc. Materials and installation per CCR 2501A.5 and 2501A.4 include as applicable to classrooms.

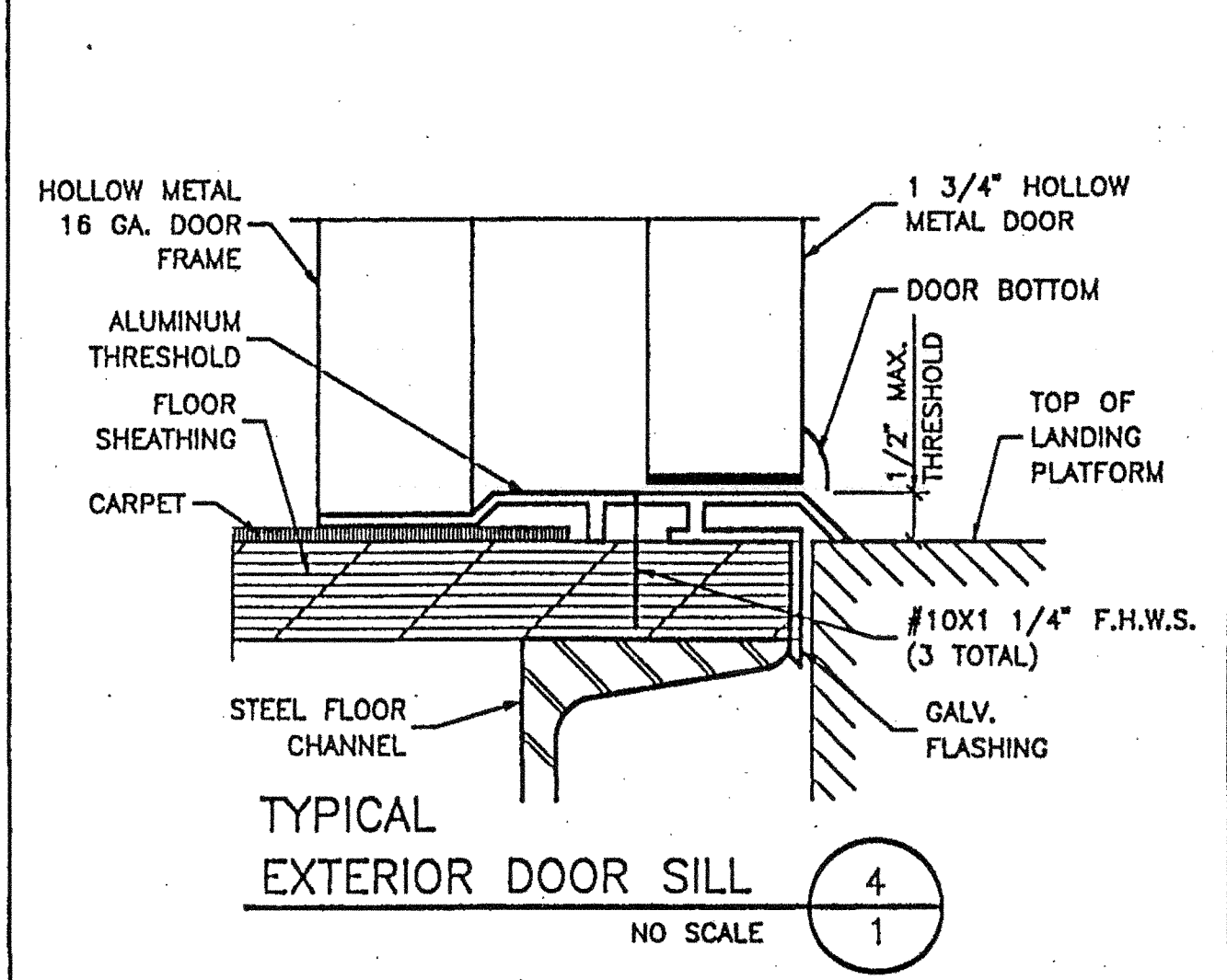
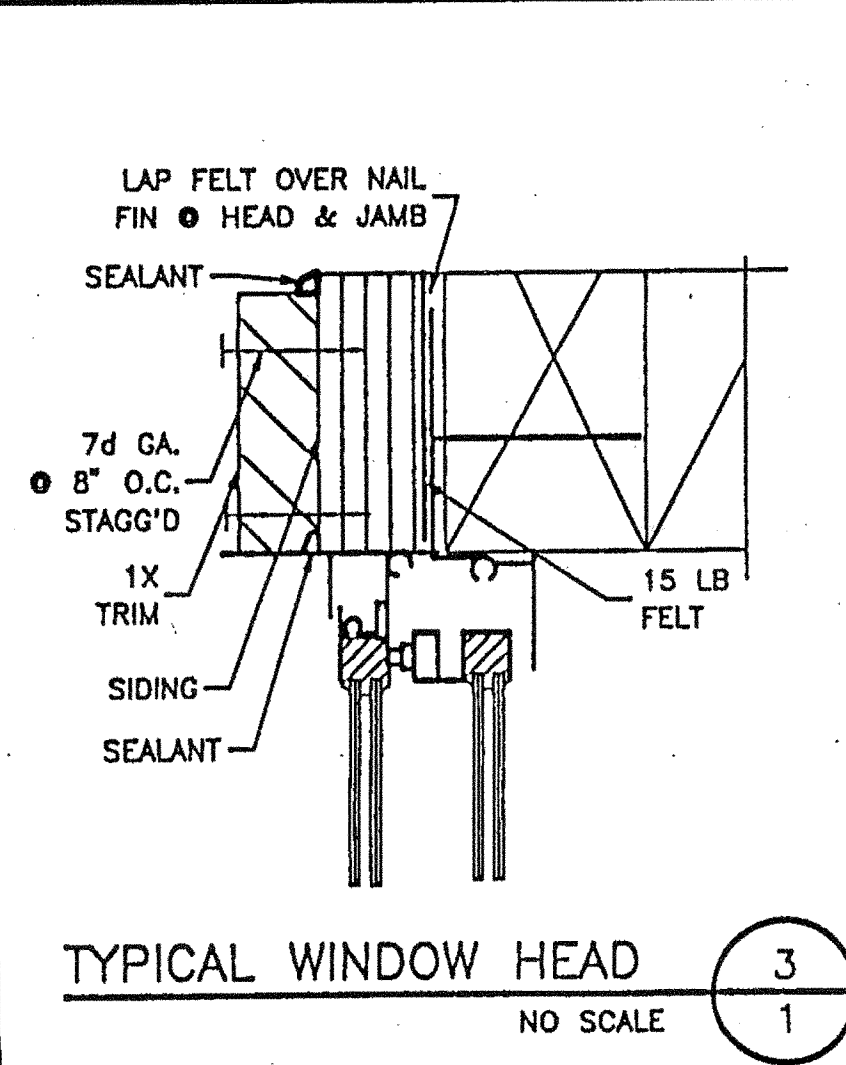
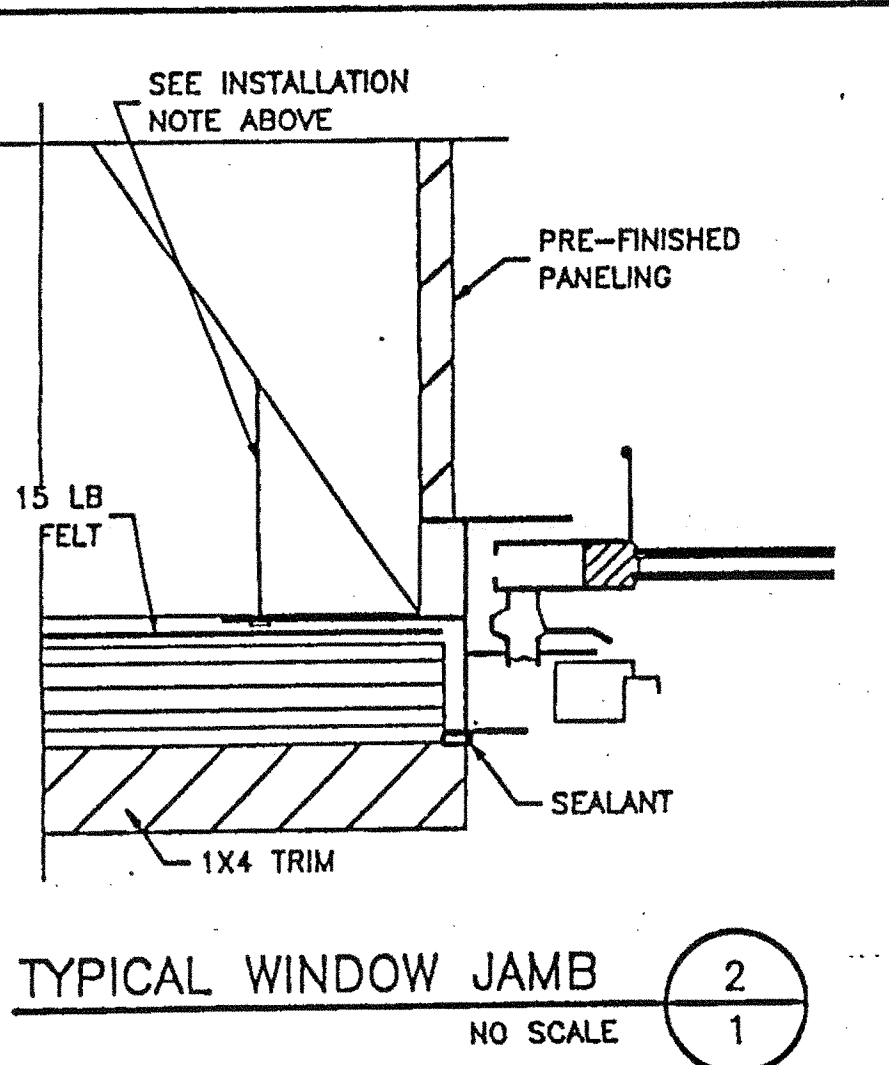
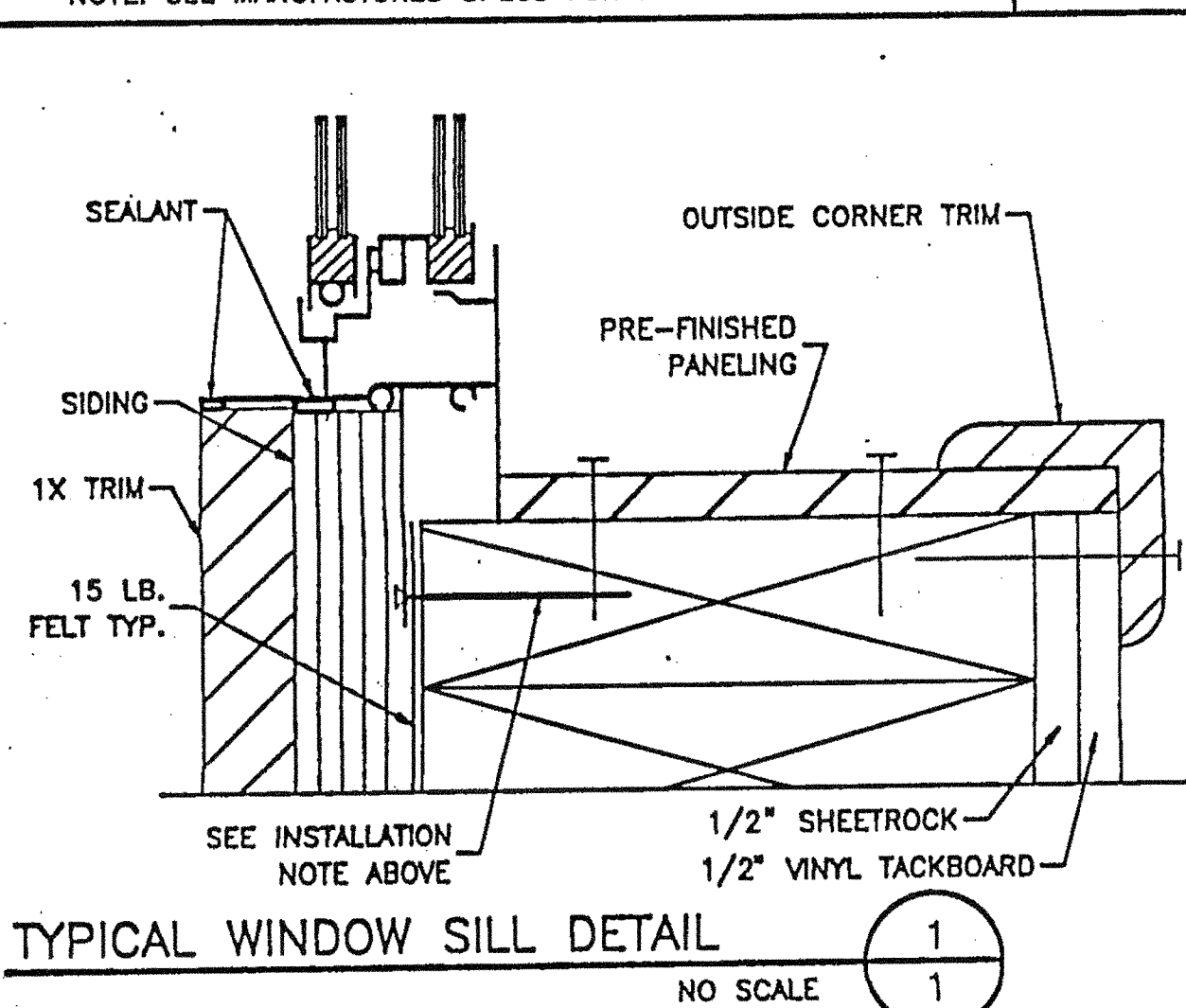
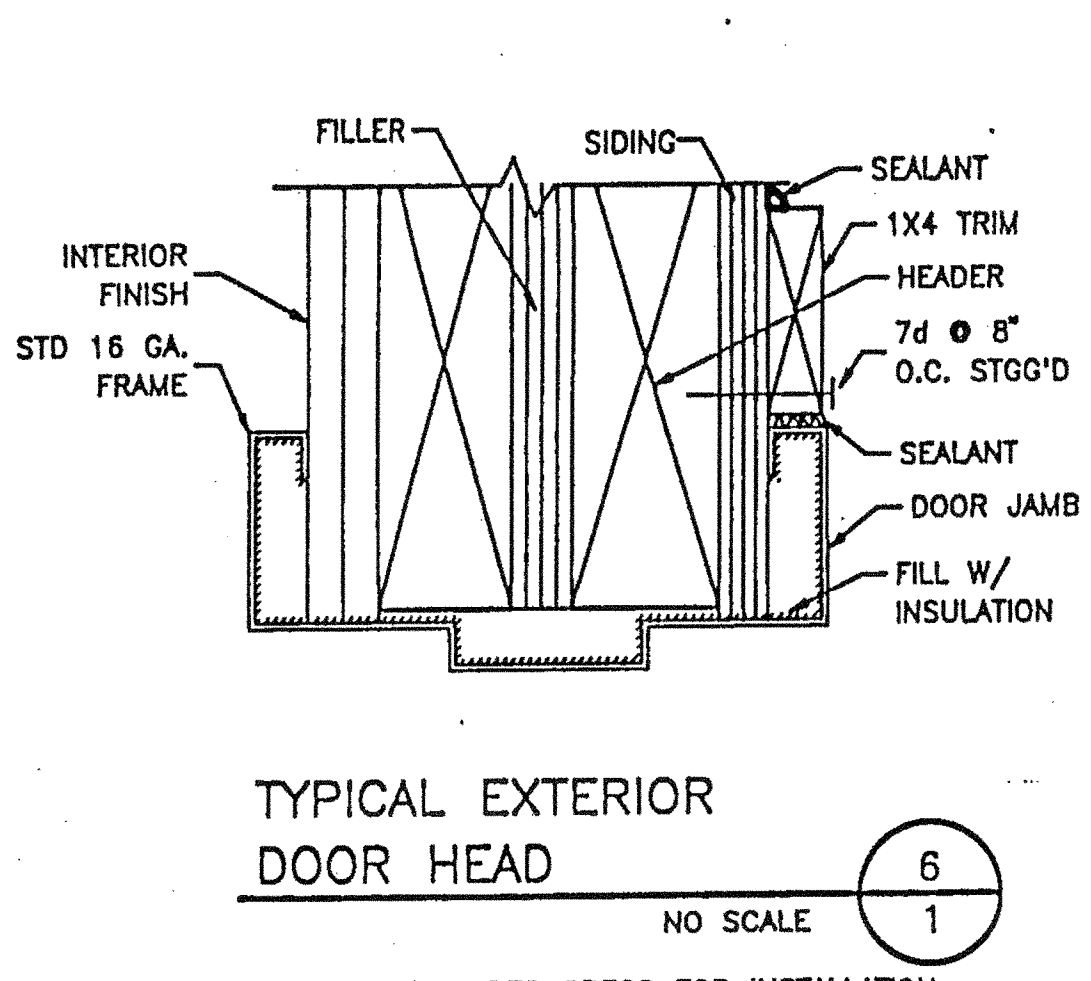
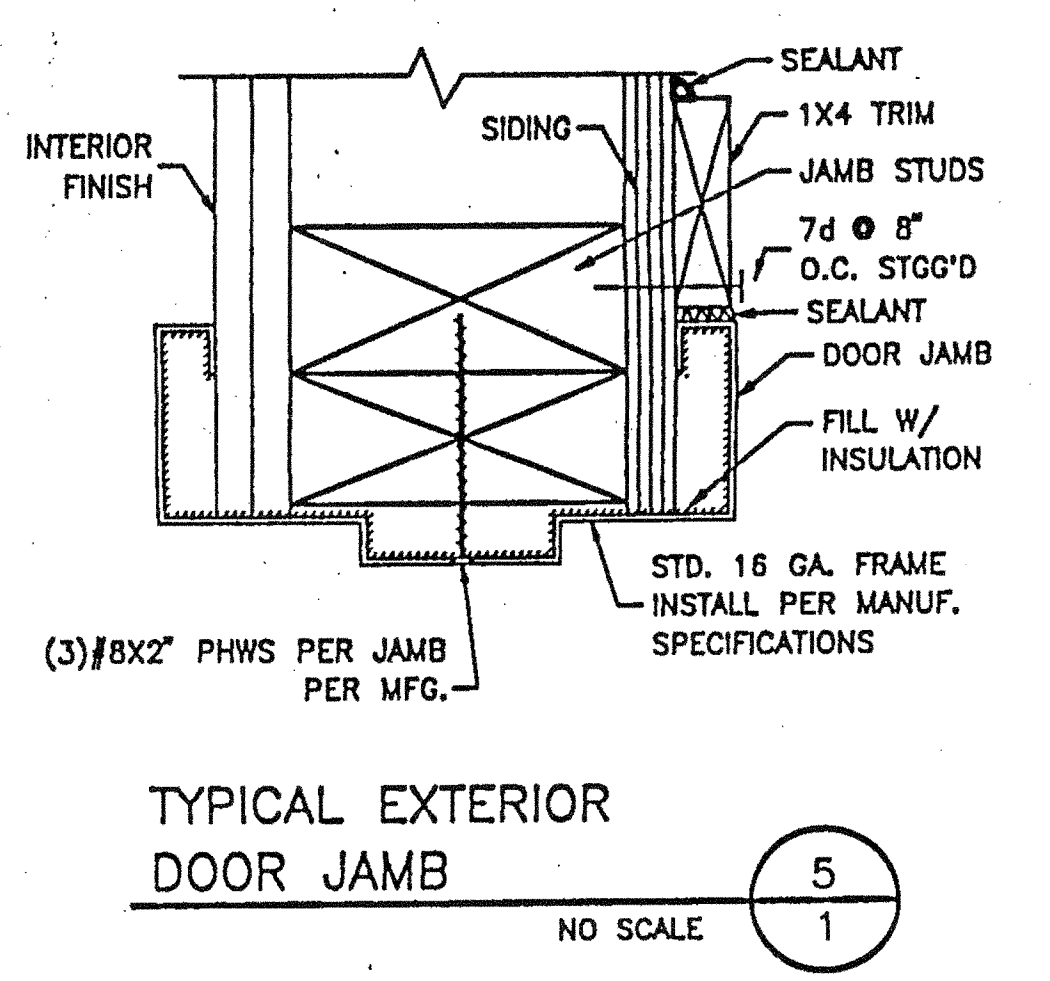
DOORS & WINDOWS

Exterior Doors: Metal Doors - 3'0" x 8'6" hollow metal door construction of 1 sheet of 18 ga. steel assembled per CS242 min and reinforced with 20 ga. min. continuous vertical steel stiffeners spaced @ 6" O.C. Fill space between stiffeners with mineral wool or other insulation. (Reinforce with braces for closure) provide flush top on doors. Hardware reinforcement shall be 10 ga. min for hinges, door frames shall be 18 ga. pressed steel frame ASTM A36 & CS242. Hardware reinforcement shall be 10 ga. min. Frames shall be designed with integral stop and turn. Provide (3) anchors per jamb.

Exterior Windows: Provide BRONZE aluminum frame minimum pane window units, as shown on floor plans.

Exterior Lite - 3/16" minimum tempered glass or laminated as - 1 glass of BRONZE

TYPICAL EXTERIOR WINDOW INSTALLATION NOTE:
SEE MANUF. SPECS FOR INSTALLATION
USE .131" X 2 1/2" 16" O.C. VERTICALS
USE .131" X 2 1/2" 24" O.C. HORIZONTALS



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DATE 8/19/97

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OFFICE OF REGULATION SERVICES
APPL PC 328
DATE 4/19/97

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APPL 01-117316
DATE 1/10/98

CERTIFICATION - All glazing to be certified in accordance with ASTM E-773, E-774.

Header height shall be the same as the door. All operable sash shall have aluminum screens. Windows shall not be mounted to the exterior parged surface. All windows shall meet the AAMA GS101-88 voluntary spec. For aluminum prime windows and siding glass (ANSI), commercial grade.

HARDWARE

Exterior Door
A) Hinges: HAGER 4-1/2" x 1/2" butts, BS1725 US240, 1-1/2" butt each door with set screw in bore and ball bearing design, or approved equal.
B) Lockset: Classroom lever handle lockset, mortise or cylindrical type, Schlage D70PD (Rodes) or equal. US240 finish.
C) Closer: Horton 8500DA or 8500BF series, LCN 1460 Del series or equal.
D) Weatherstripping: All exterior doors shall be weatherstripped with Pemko 299D, Ultra WS007, at door jamb and head or equal.
E) Threshold: Threshold shall be Pemko 271 AV 5" aluminum with Pemko 216 AV Ultra TH042 door bottom.
F) Doorstops: Quality #44, or equal.

FIRE EXTINGUISHER

1. Each portable classroom shall be equipped with pressure type fire extinguishers with 2A0BC lb rating. To be mounted on the interior wall of the building near the door(s) at a height of 4 feet to mounting bracket. Fire extinguishers shall be totally charged and have a dial indicating the state of charge.

CHALKBOARD SPECIFICATIONS

Chalkboards (standard) shall have green facing sheet. Markerboards (extra cost option) Markerboards shall be 3 mil thick melamine facing sheet suitable to accept dry erase felt markers. The facing sheet shall be laminated, using hot melt adhesive, to a medium density particleboard substrate with a minimum density of 45 lb/cu. ft. The panel shall have a foil backing. The panels shall have extruded aluminum molding and channel with a minimum of 2-1/2" projection from the face of the panel. A full length map roll shall be provided with core insert and end stops. The map roll and chalkboard are to incorporate a channel to wrap around the panel. Three (3) map hooks, with caps, per panel shall be provided. One fog holder, 1/2" dia., shall be provided for each classroom. Each classroom shall be 2 sq. feet panels installed side by side to make a 4' x 4' panel centered on one of the long walls. Reference brand: Chalfield-Corke Co. series 500. Attach directly to studs and blocking w/1/2" x 2" wood screw @ 32" o.c. horizontally and @ 24" o.c. vertically.

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems

CUSTOMER: _____

DATE: 4-8-97
SCALE: NONE
DRAWN BY: R.S.
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SERIAL NO. _____

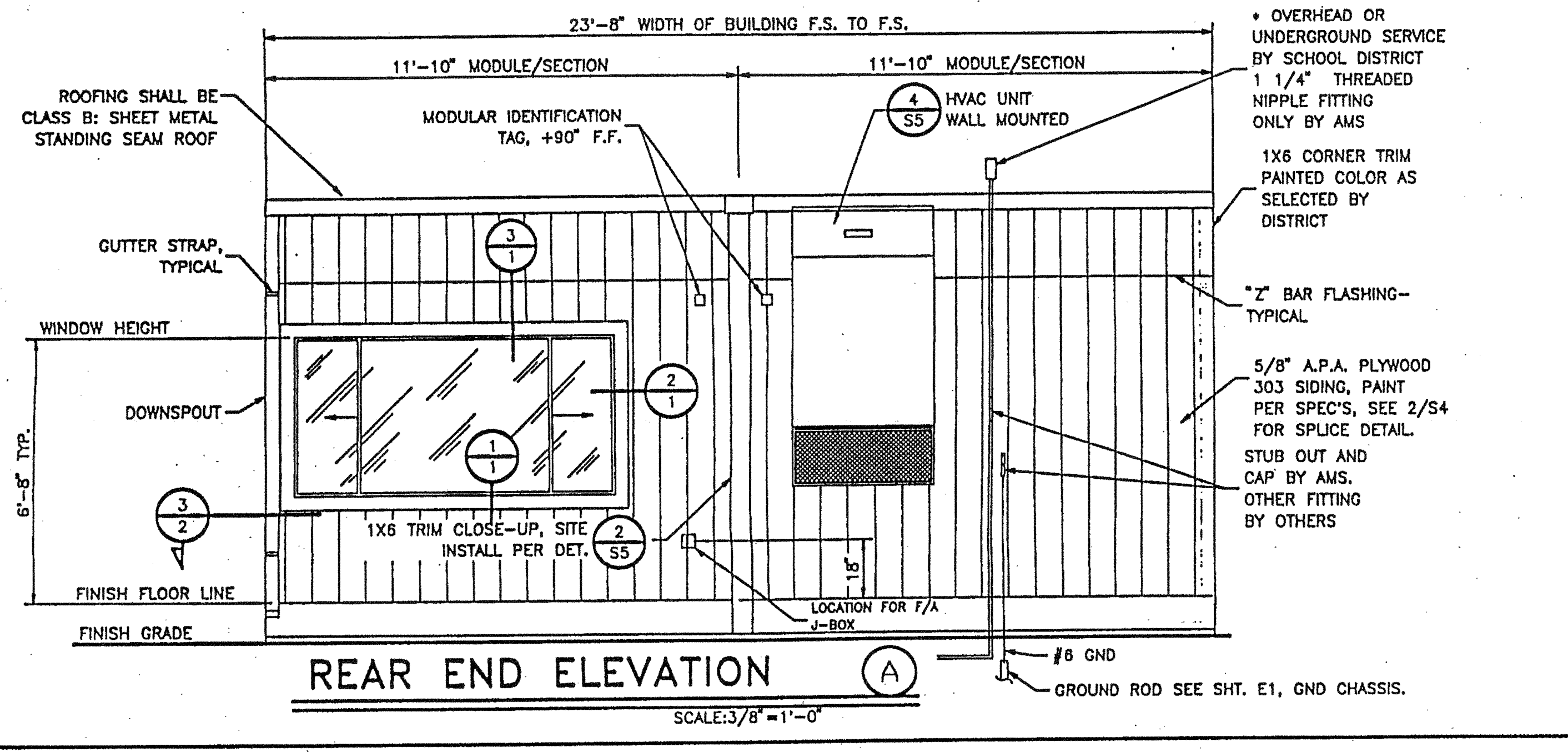
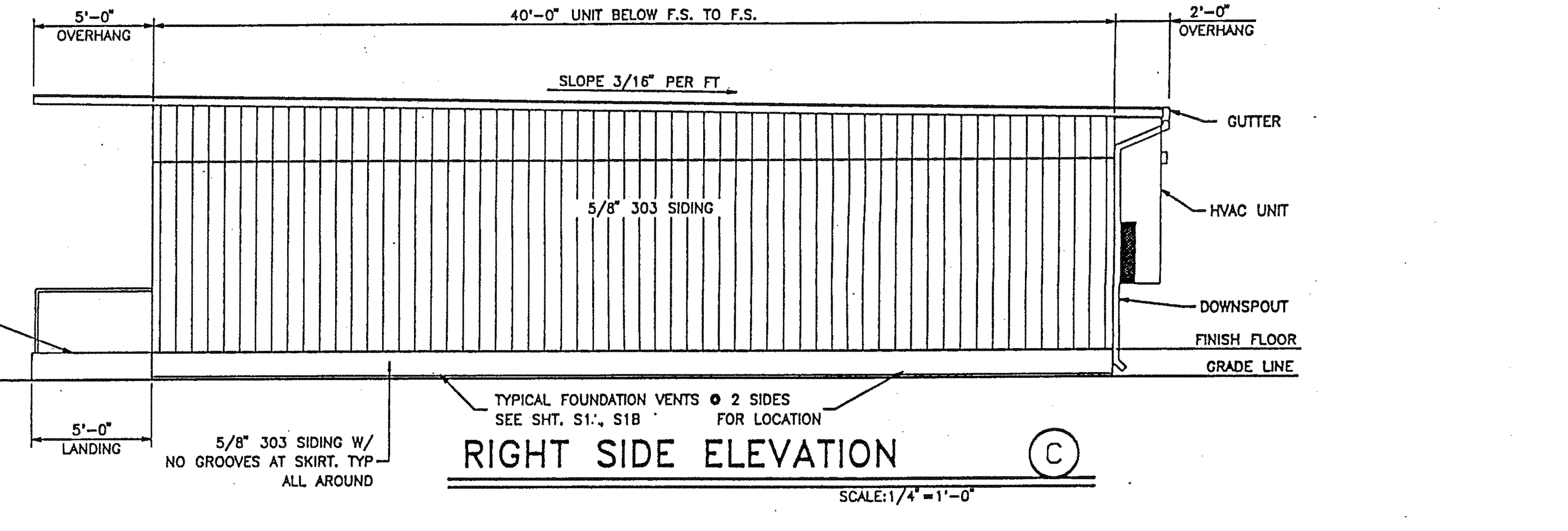
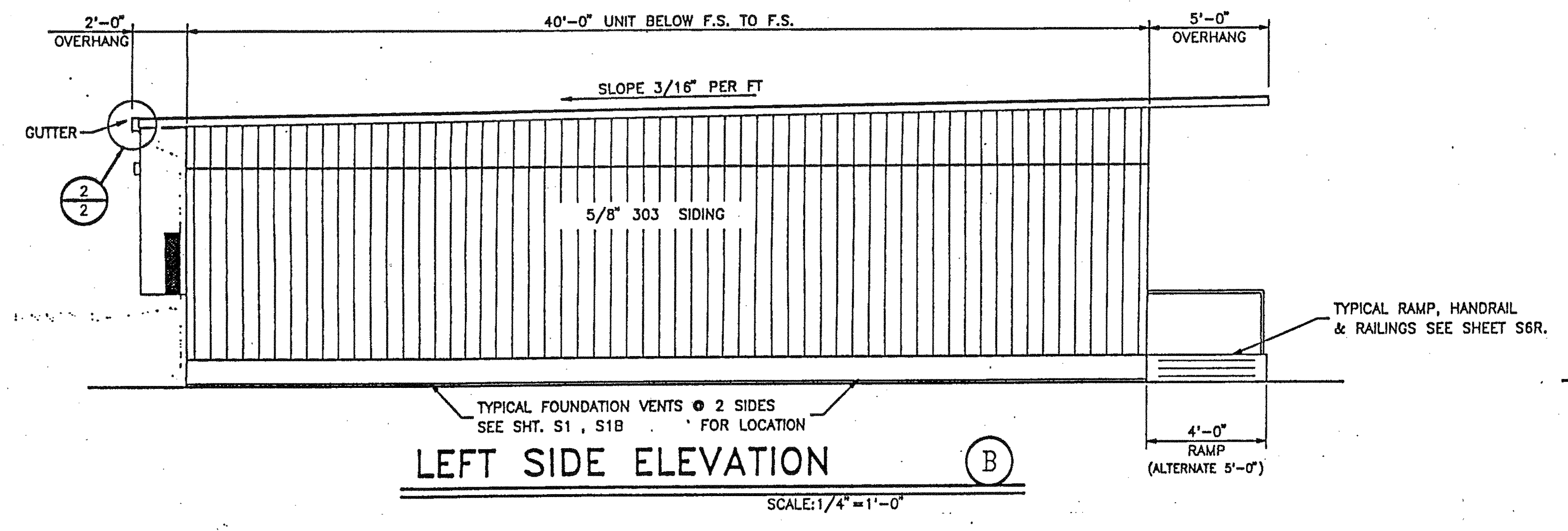
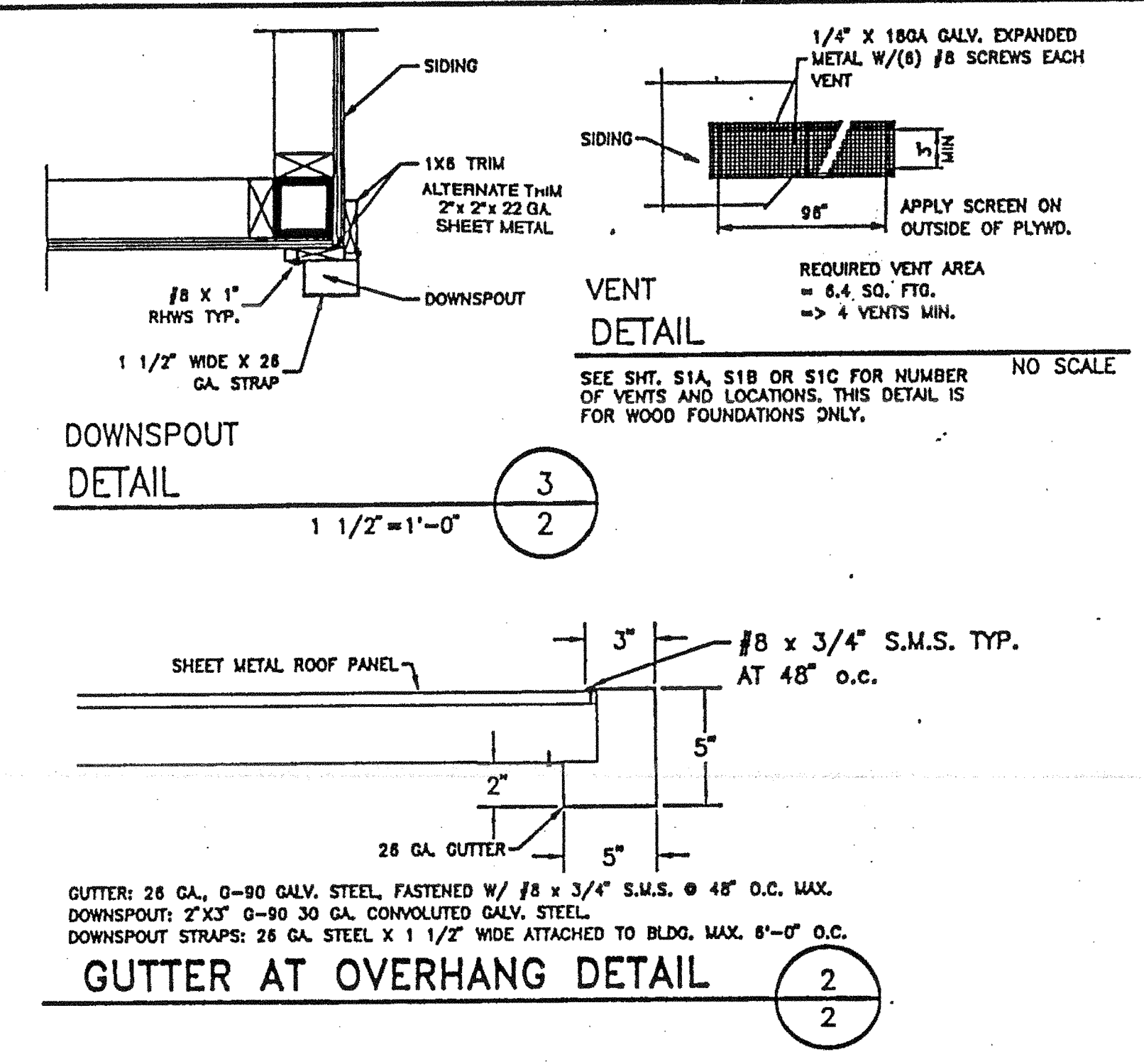
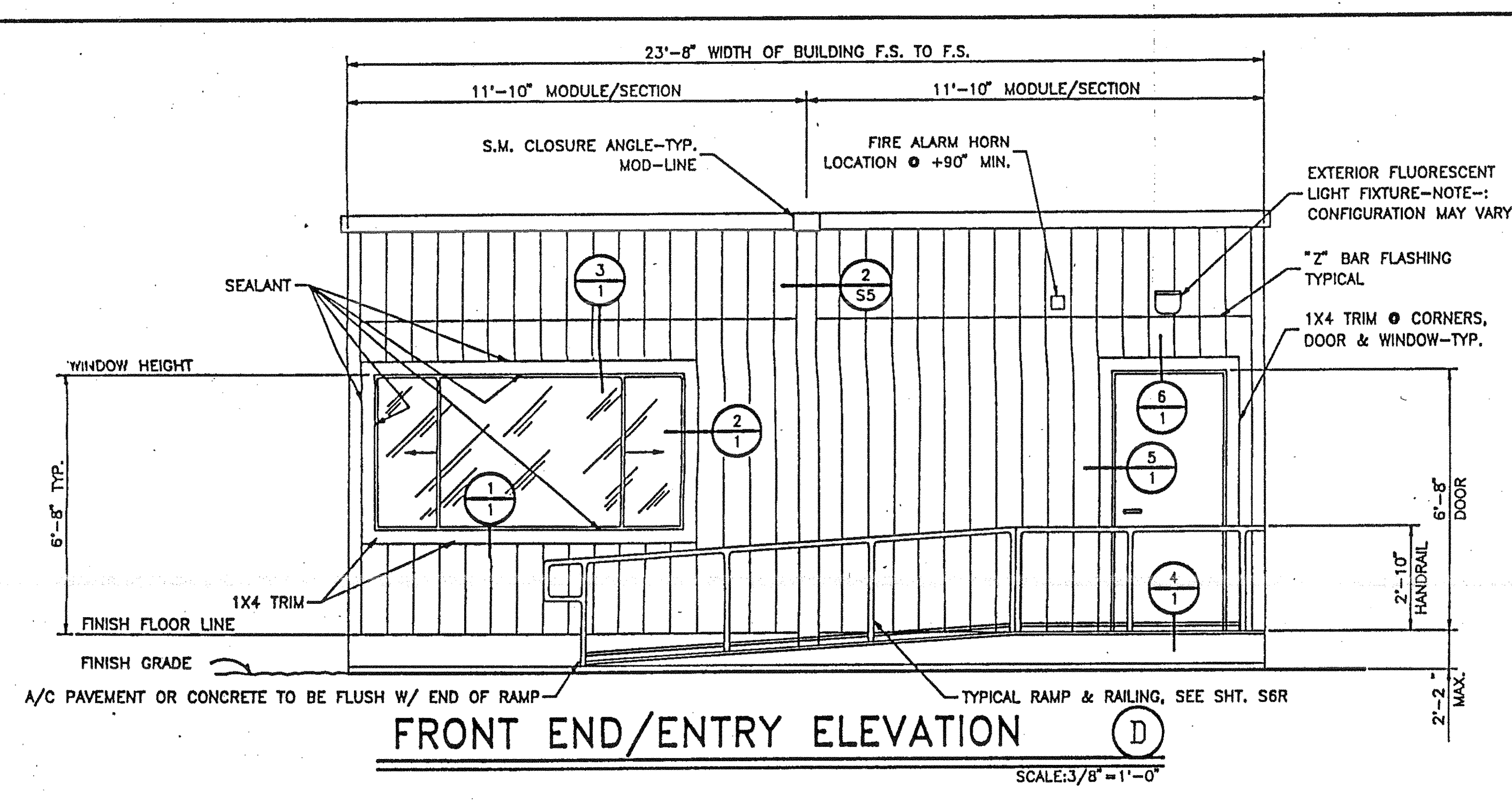
FLOOR PLAN & NOTES

3" STANDING SEAM ROOF

REVISIONS					
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No. _____

SHEET No. **1**



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Exp 3-31-01
DATE 4/1/97

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APPL PC 328
ACS DATE 4/1/97

24 X 40
RELOCATABLE
CLASSROOMS

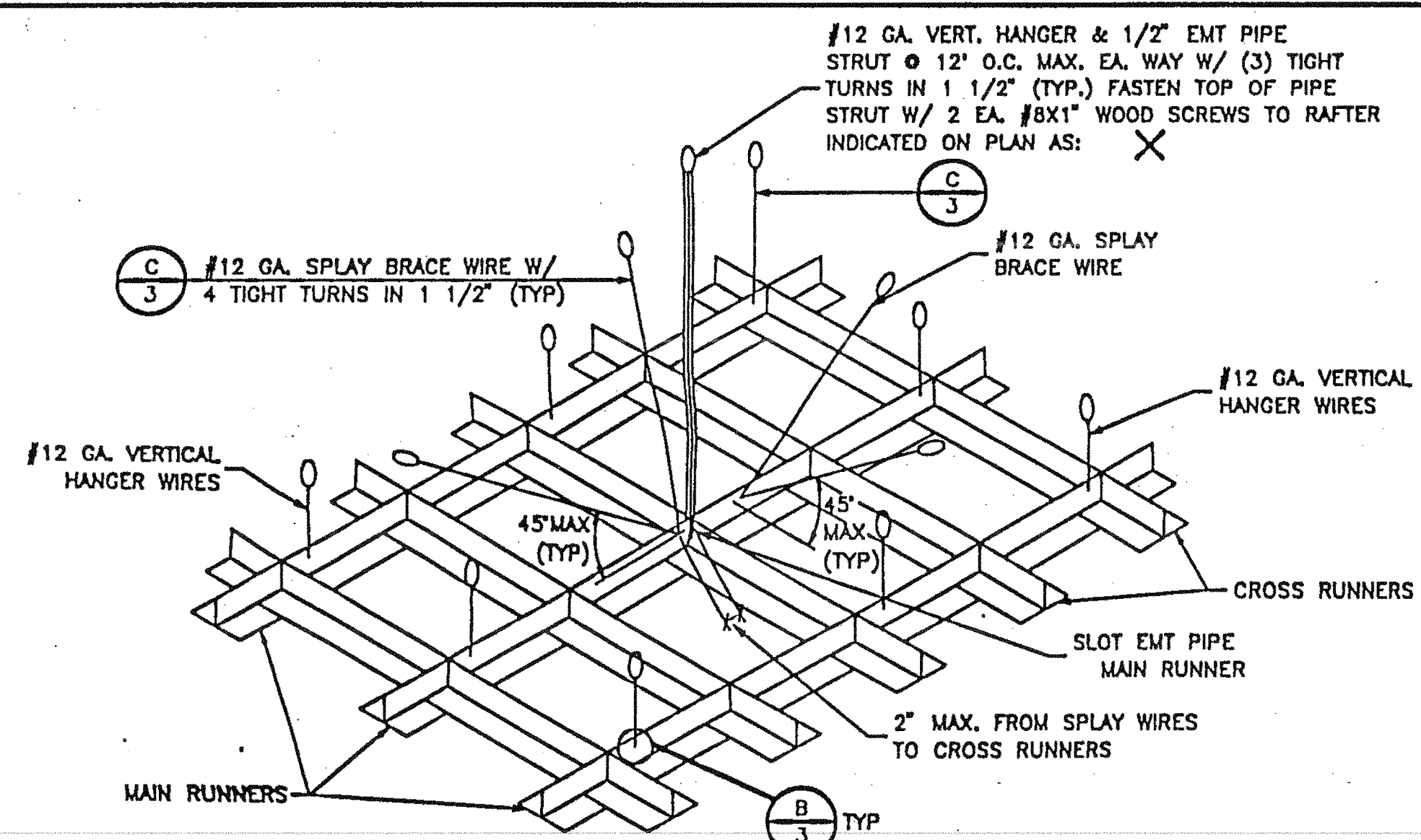


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EXTERIOR ELEVATIONS

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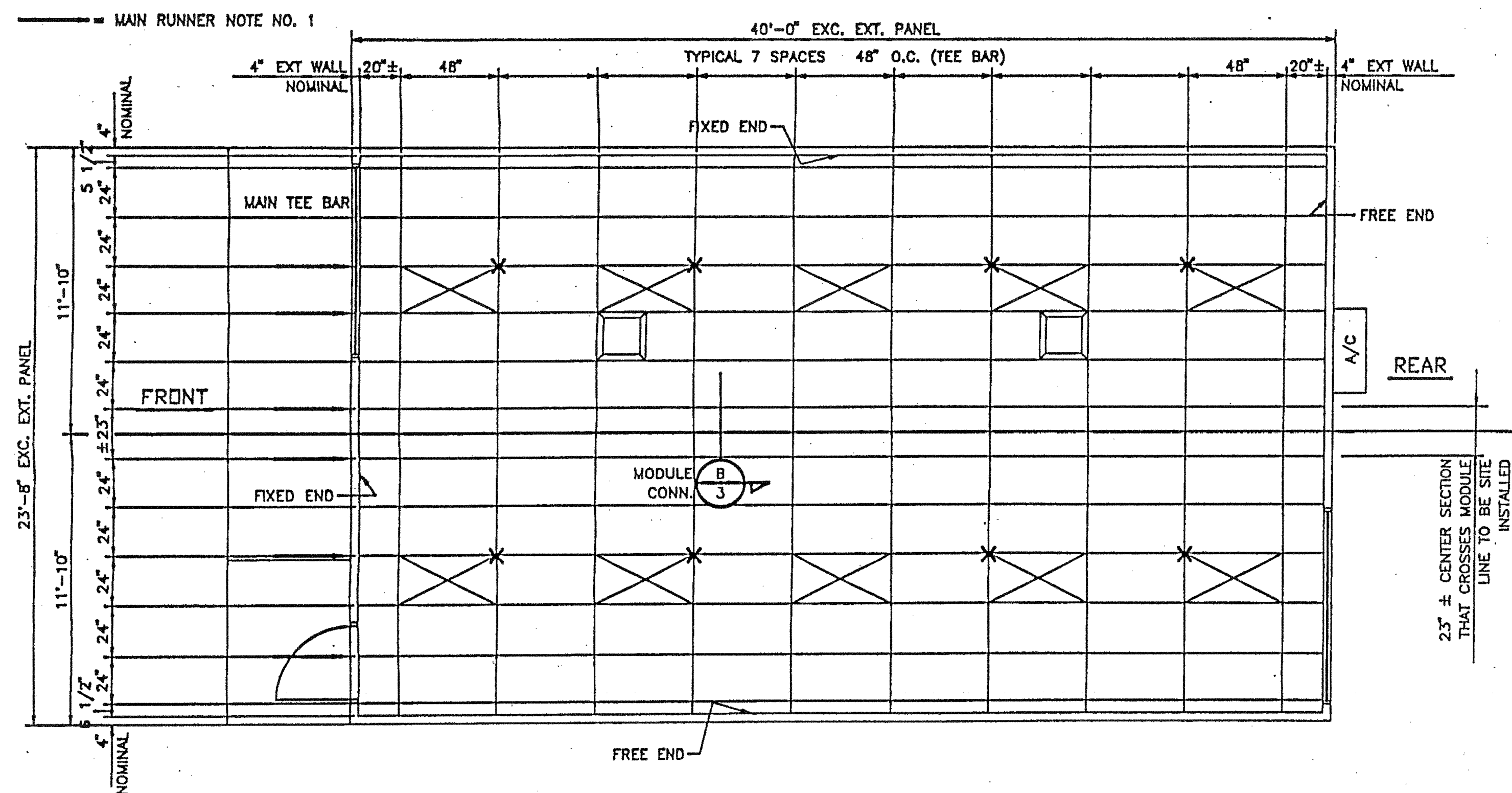
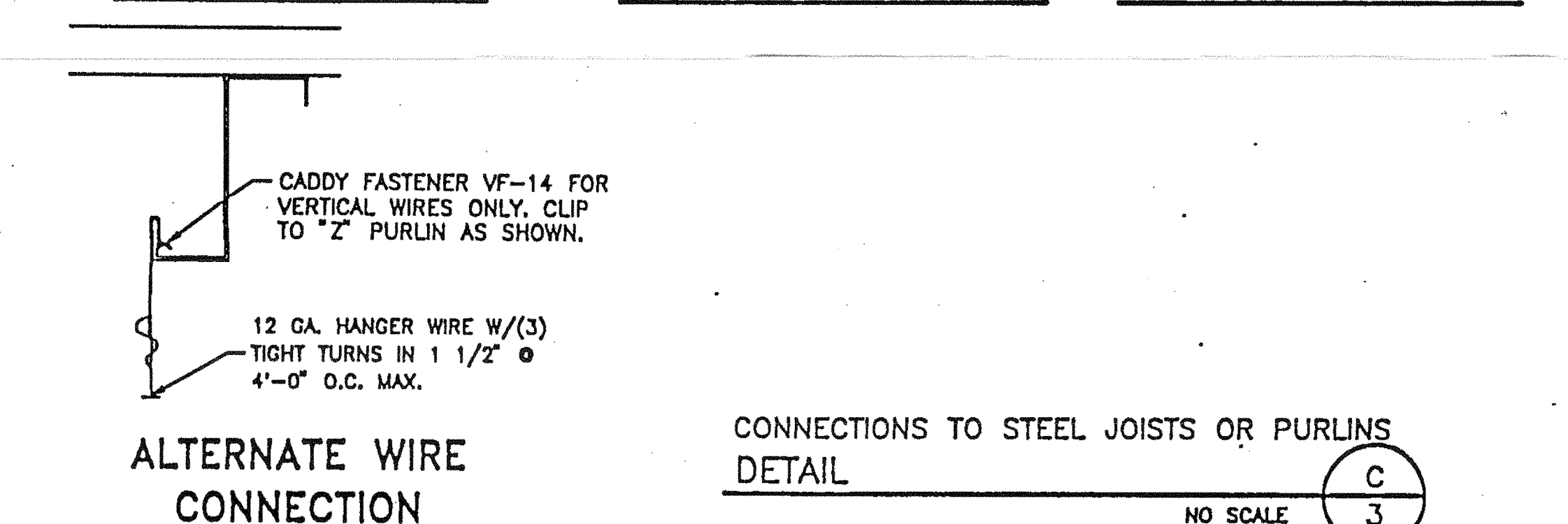
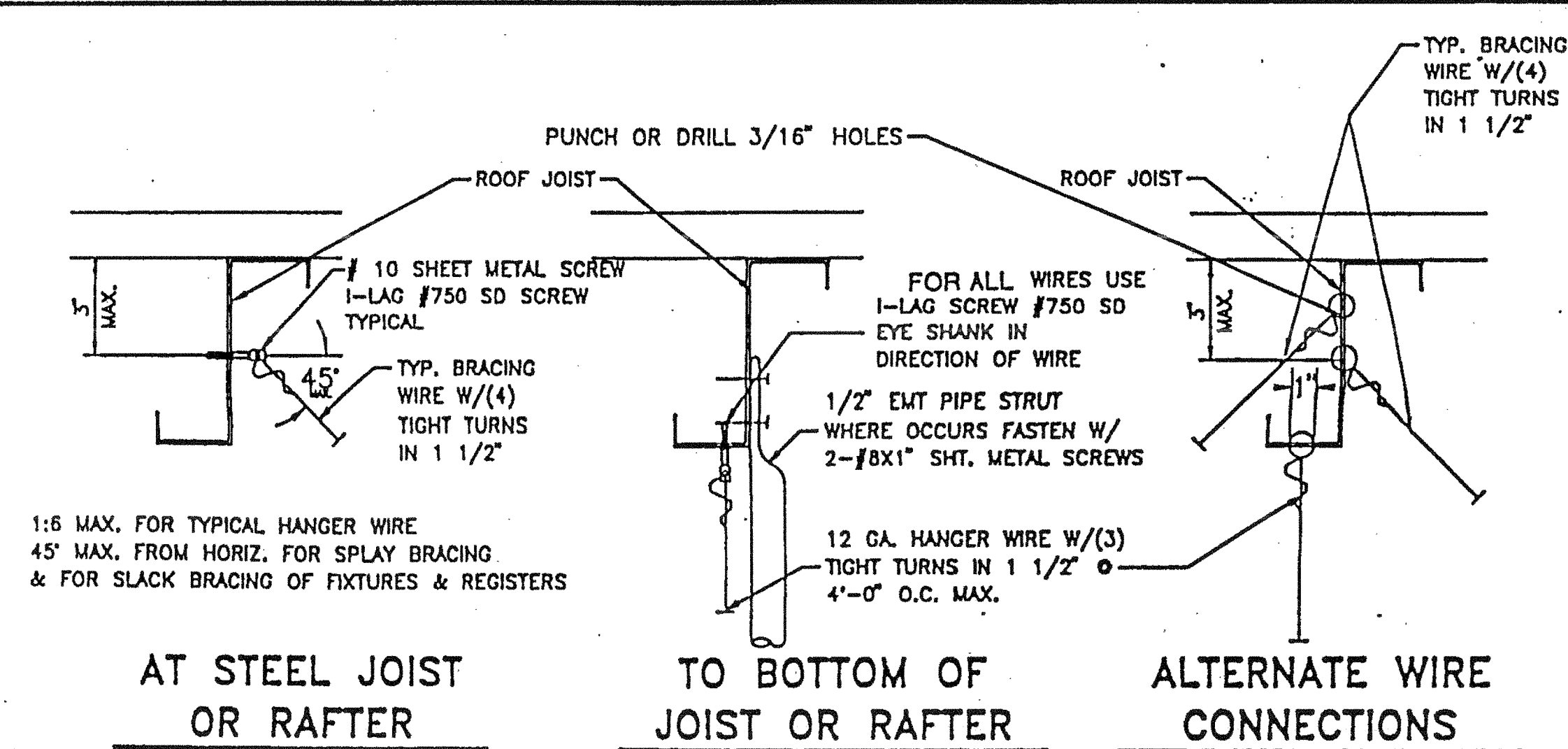
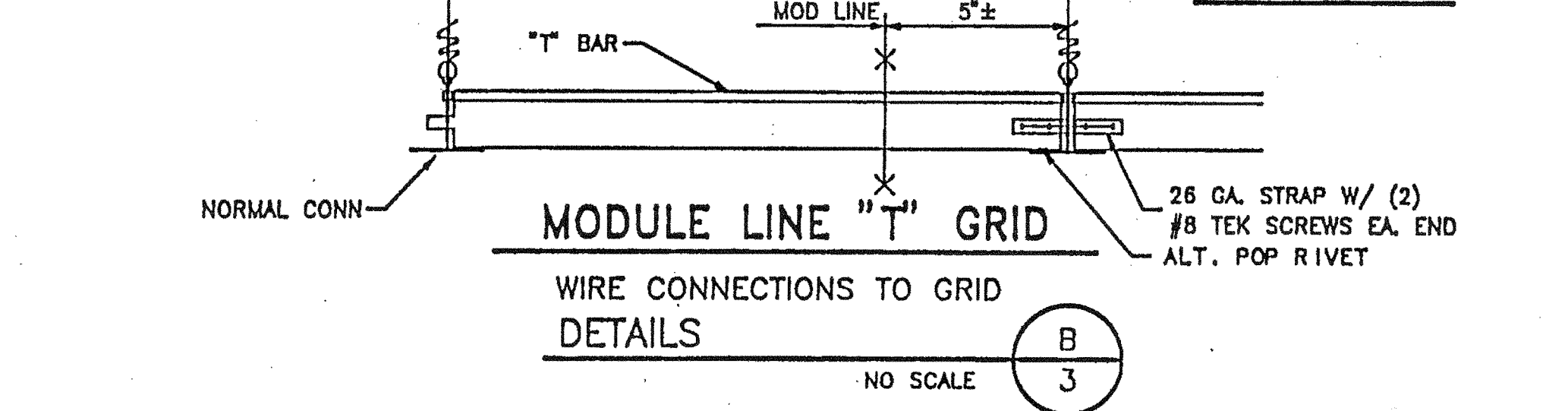
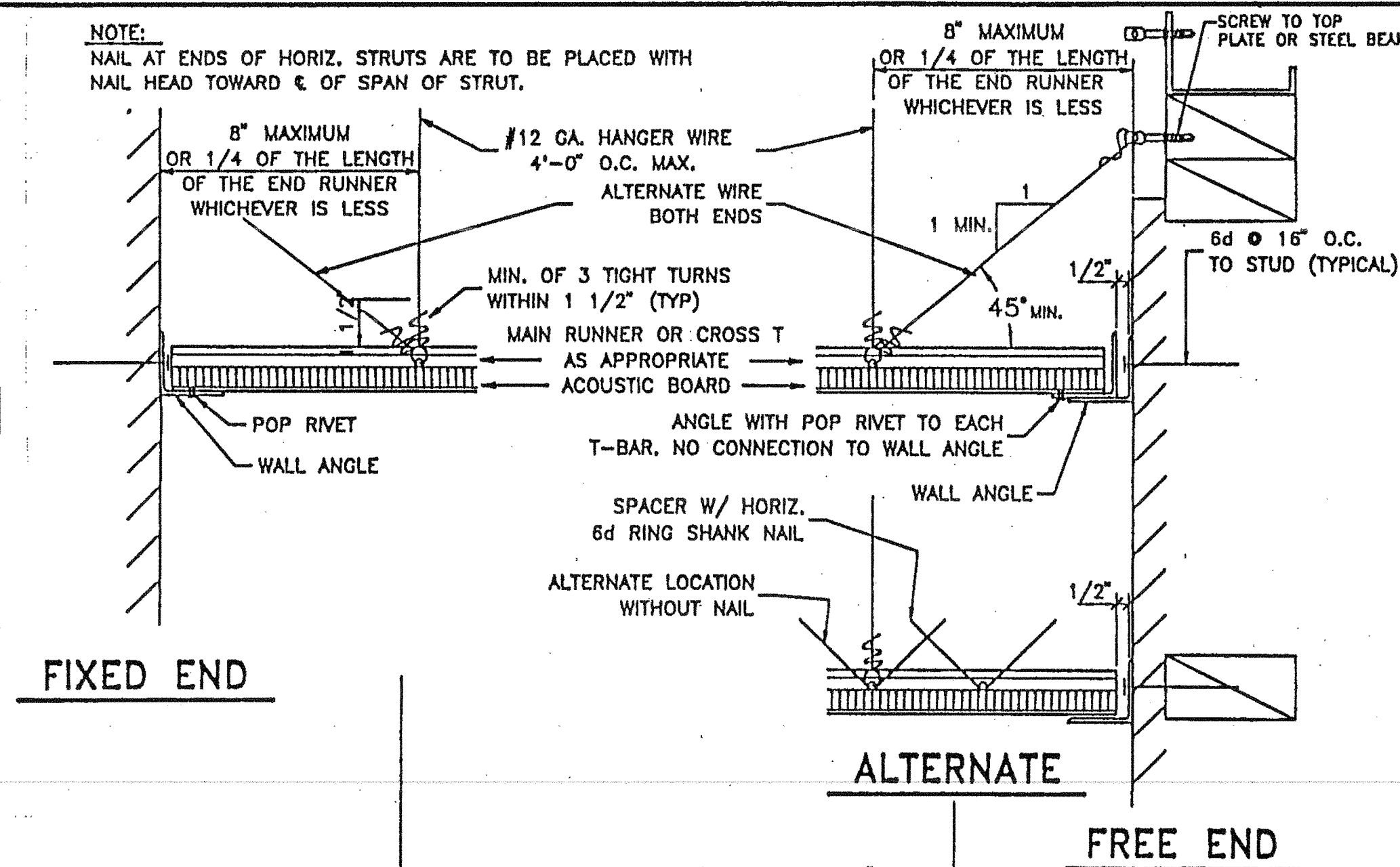
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SHEET No. 2



NOTE: SPLOYED BRACING WIRES SHALL BE SPACED NOT MORE THAN 12 FT. ON CENTER.

ATTACHMENT FOR CEILING GRID
DETAIL
NO SCALE (A/3)



CEILING TEE BAR GRID LAYOUT WITH LIGHT FIXTURES

SCALE: 1/4" = 1'-0"

METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING

- 12 GA. (MIN) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0" GRID SPACING, ALONG MAIN RUNNERS. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY DSA/ORS.
- PROVIDE 12 GA HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS AT THE PERIMETER OF THE CEILING AREA.
- PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREA. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTERBRACED WIRES.
- CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 1/2 INCH FREE OF OTHER WALLS. RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM BE FREE AND A MINIMUM OF 1/2 INCH CLEAR OF WALL.
- AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED, WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 12" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
- PROVIDE SETS OF 4-#12 GA. SPLOYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:
 - FOR SCHOOL BUILDINGS, PLACE SETS OF SPLOY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
 - PROVIDE SPLOY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS

THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL DSA/ORS APPROVAL.

- FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS. FASTEN SPLOY WIRES WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
- SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED LIGHTS, PIPES, CONDUIT ETC., IT IS ACCEPTABLE TO ATTACH LIGHT-WEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL DIAMETER, TO HANGER WIRES USING CONNECTORS ACCEPTABLE TO DSA/ORS.
- ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES.
- FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING LESS THAN 50 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF 2-#12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
- CLASSIFICATION OF CEILING GRID IS "HEAVY DUTY" PER ASTM C635
 MANUFACTURER'S CATALOG NUMBER - MAIN RUNNER HEAVY DUTY 2-20-97
 MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER PER TABLE A.
 MANUFACTURER'S CATALOG NUMBER OF DETAIL FOR RUNNER SPlice N/A.
 ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE ASTM FLAME SPREAD CLASS 1, 24" x 48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM. MAXIMUM SMOKE DENSITY NOT TO EXCEED 450.

TABLE A HEAVY DUTY GRID COMPONENTS			
MANUFACTURER	MAIN TEE	H.D. CROSS TEE	H.D. T CROSS TEE
DOWN/USG	DX-28	DX-174	DX-218
ARMSTRONG	7301	7341	7373
CHICAGO MET.	200-01	1204-01	1228-01

NOTE: ALL GRID COMPONENTS SHALL BE BY SAME MANUFACTURER

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PROFESSIONAL ENGINEER
No. 2310
Exp. 3-31-01
DATE 4/9/97

PROFESSIONAL ENGINEER
No. 2310
Exp. 3-31-01
DATE 4/9/97

APPL-PC 328
DATE 4/9/97

24 X 40
RELOCATABLE
CLASSROOMS



CUSTOMER: _____

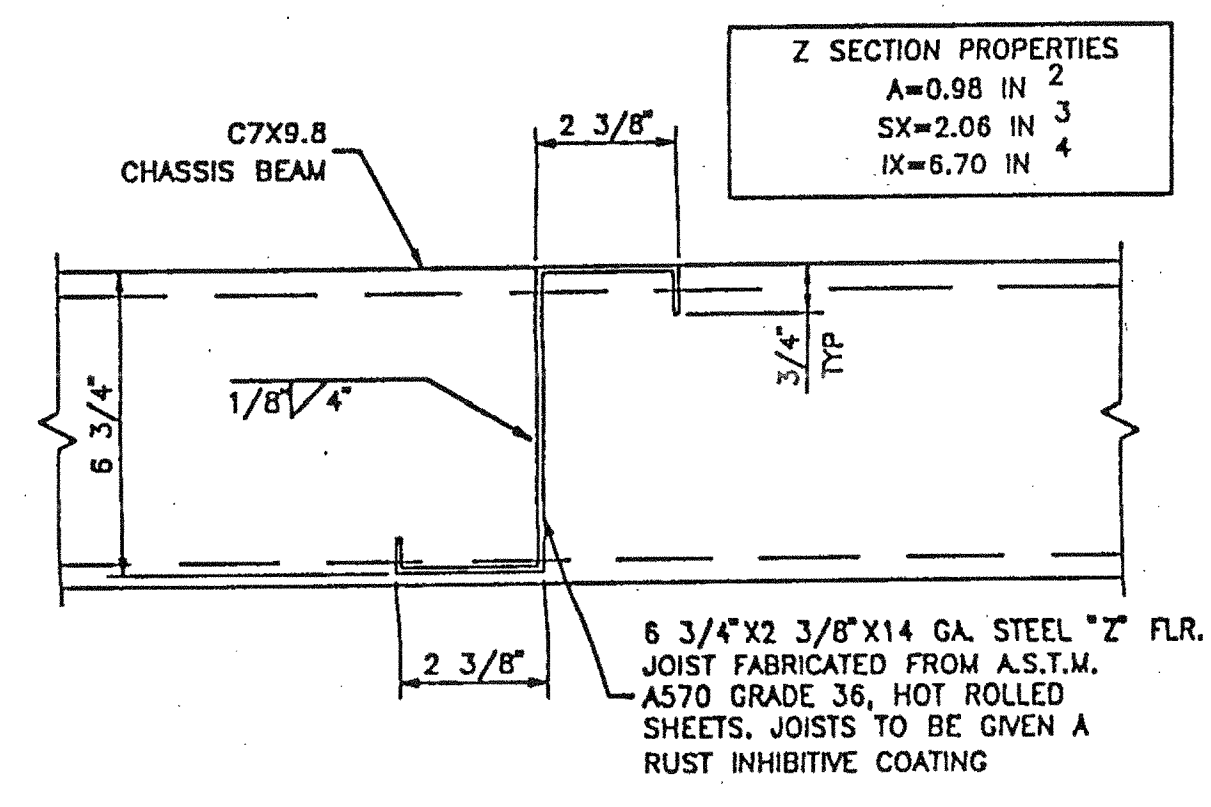
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SCALE: NONE
DRAWN BY: R.S.
CHECKED BY: _____
SERIAL NO. _____

CEILING GRID, DETAILS AND NOTES

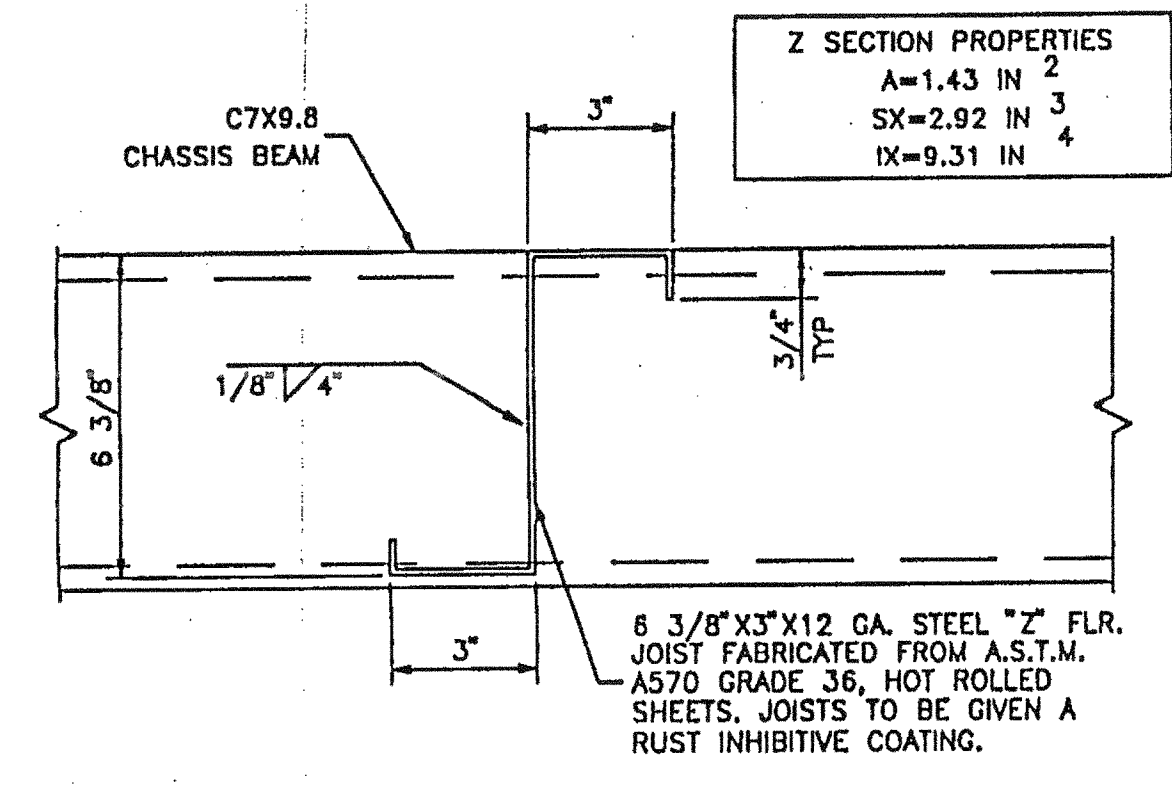
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PROJECT No. _____

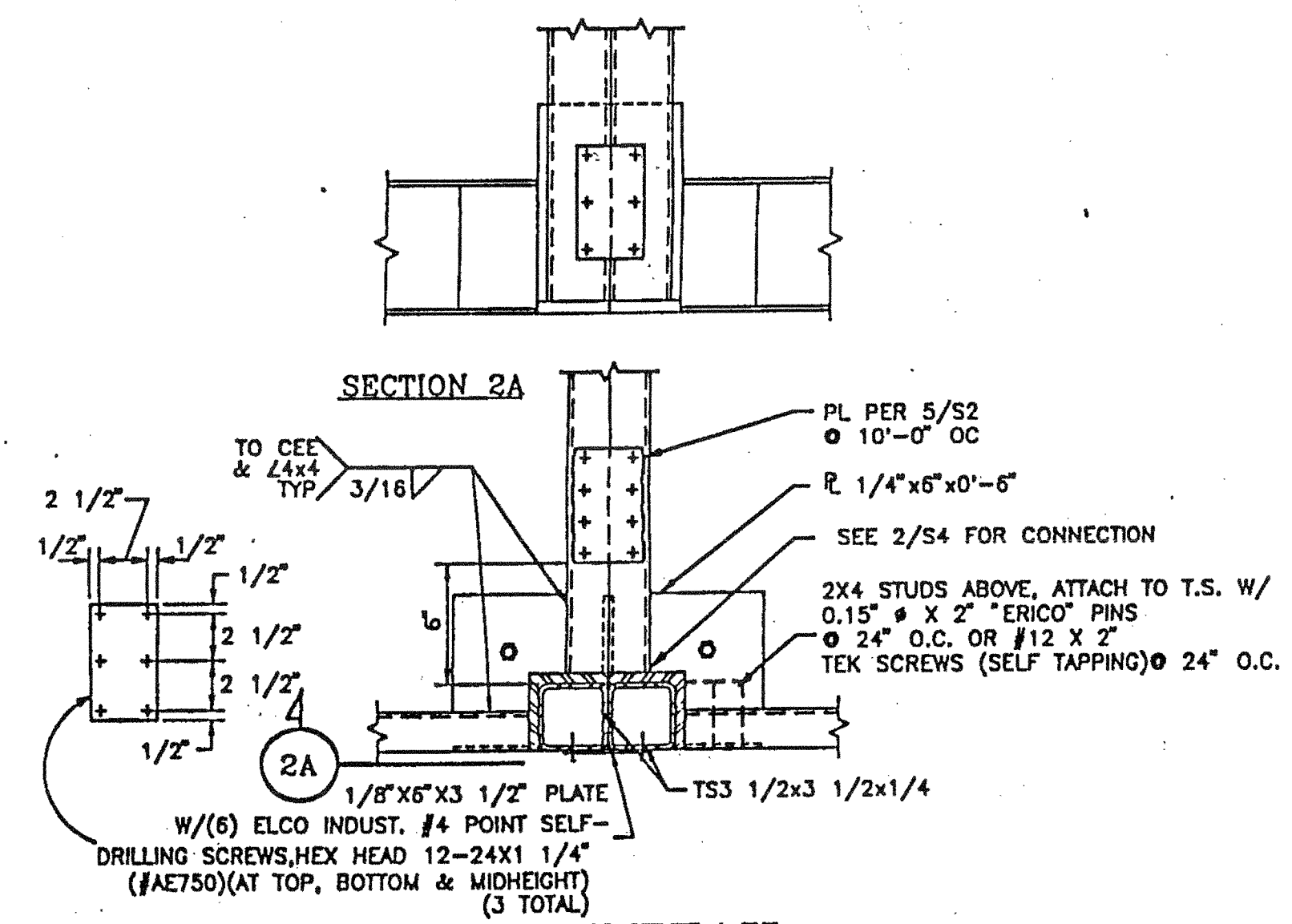
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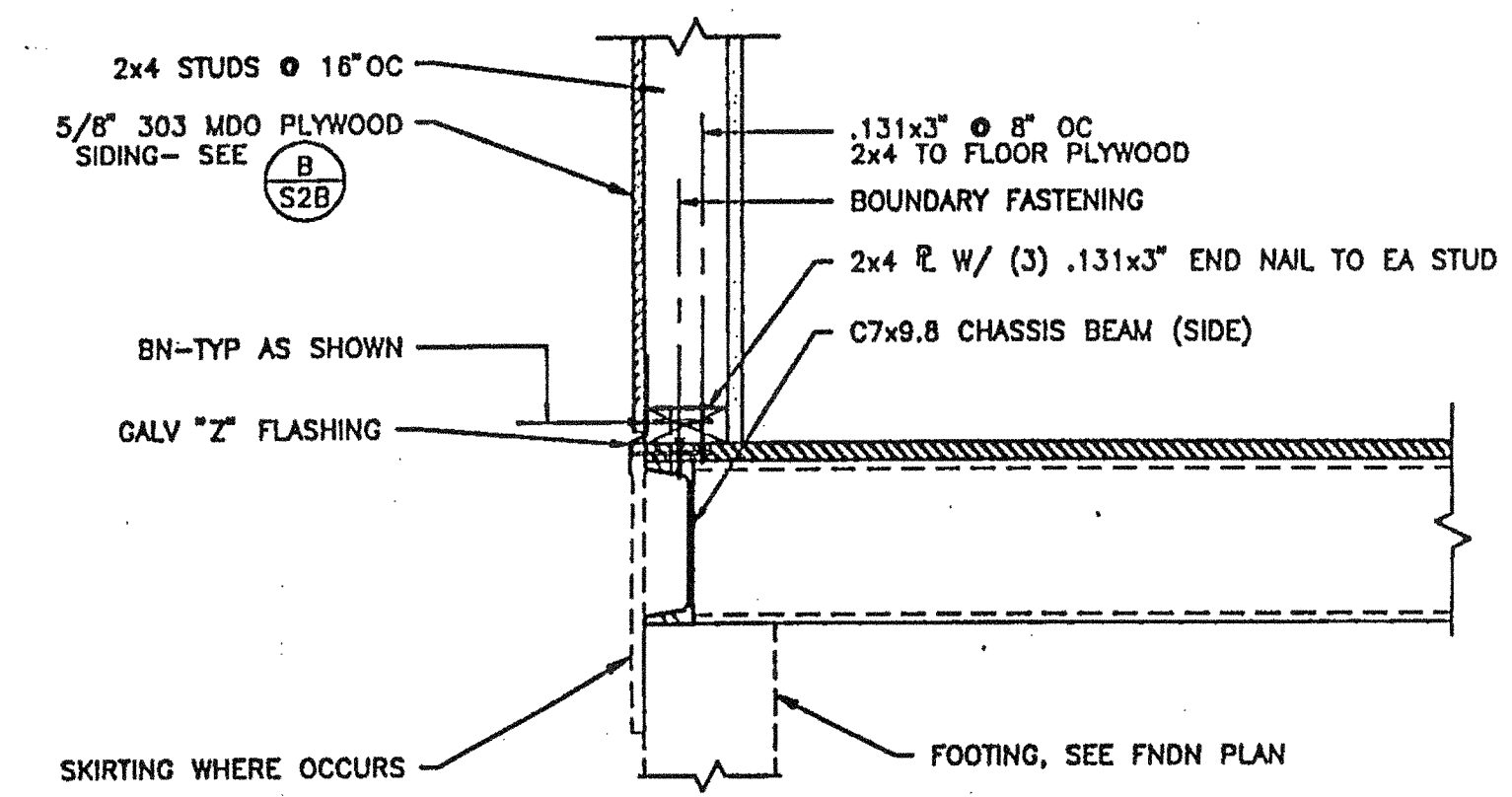
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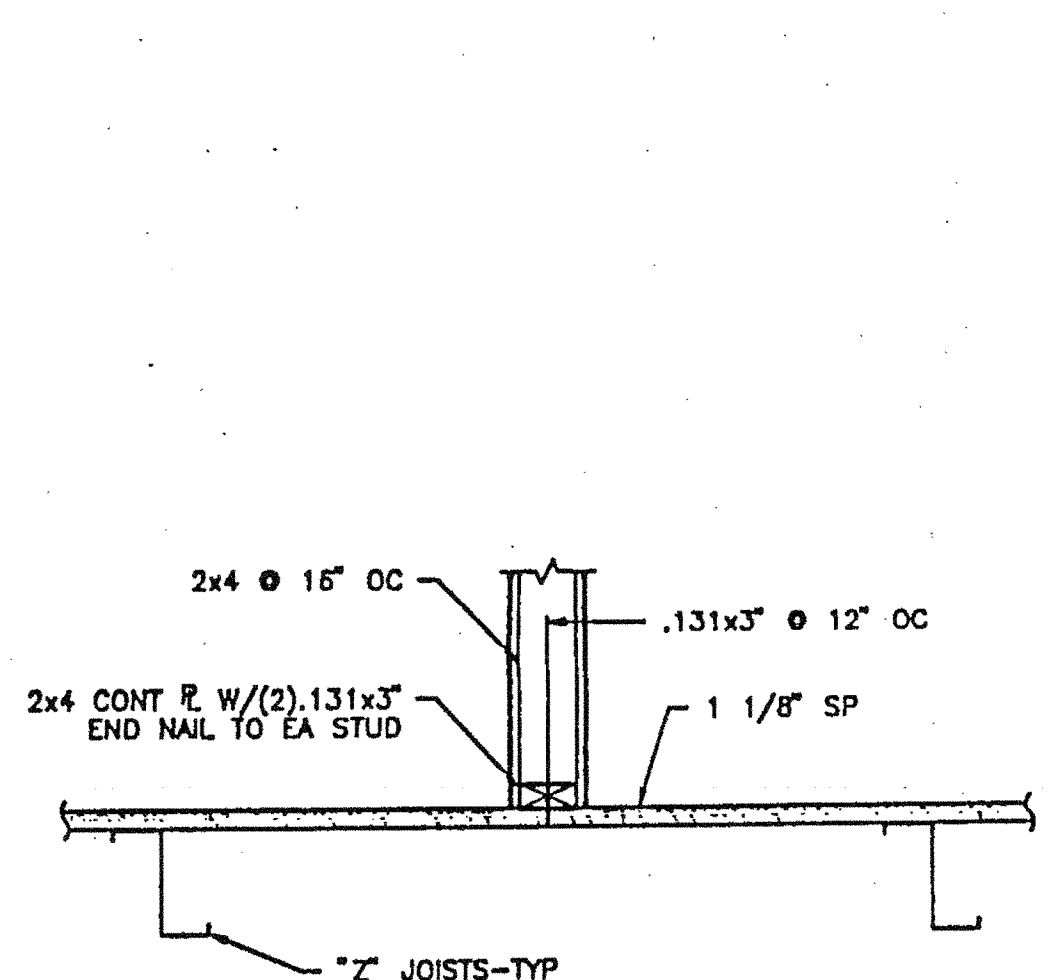
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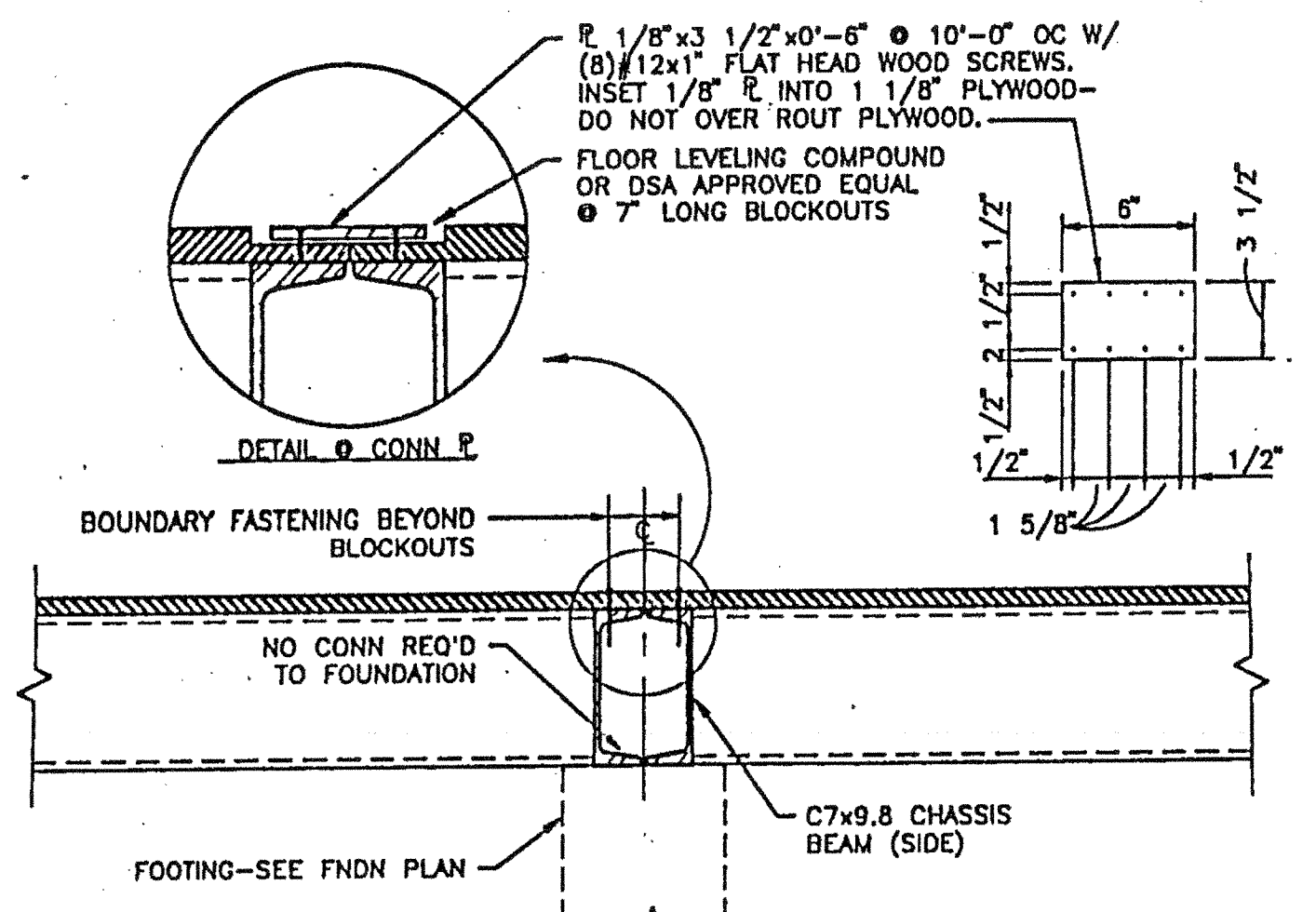
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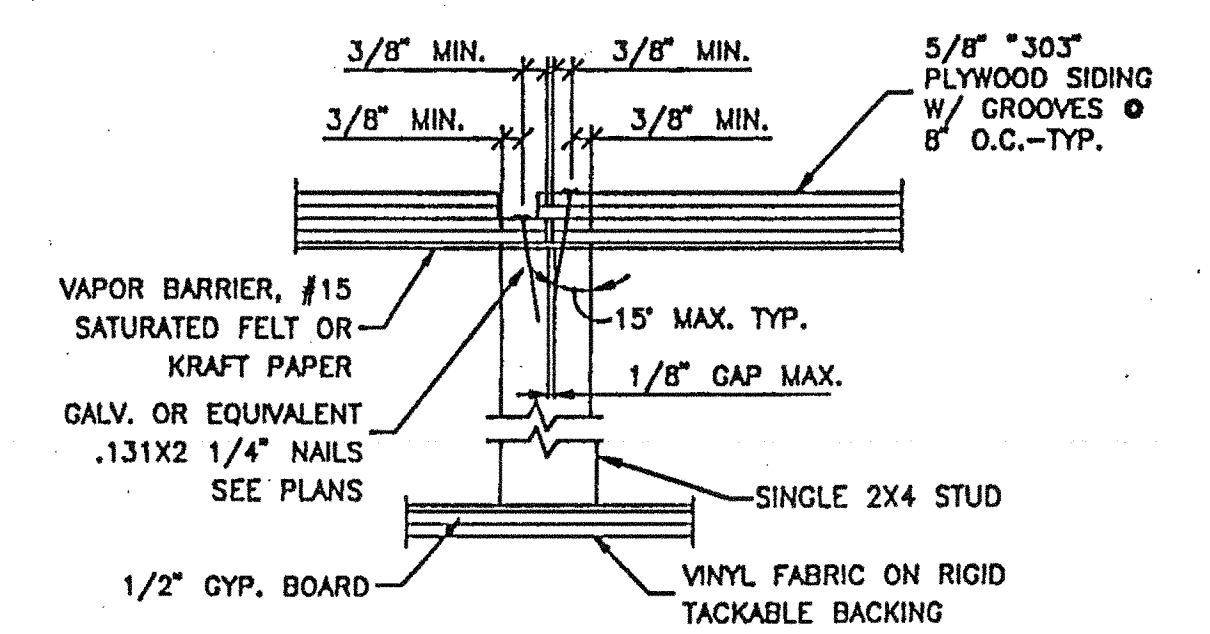
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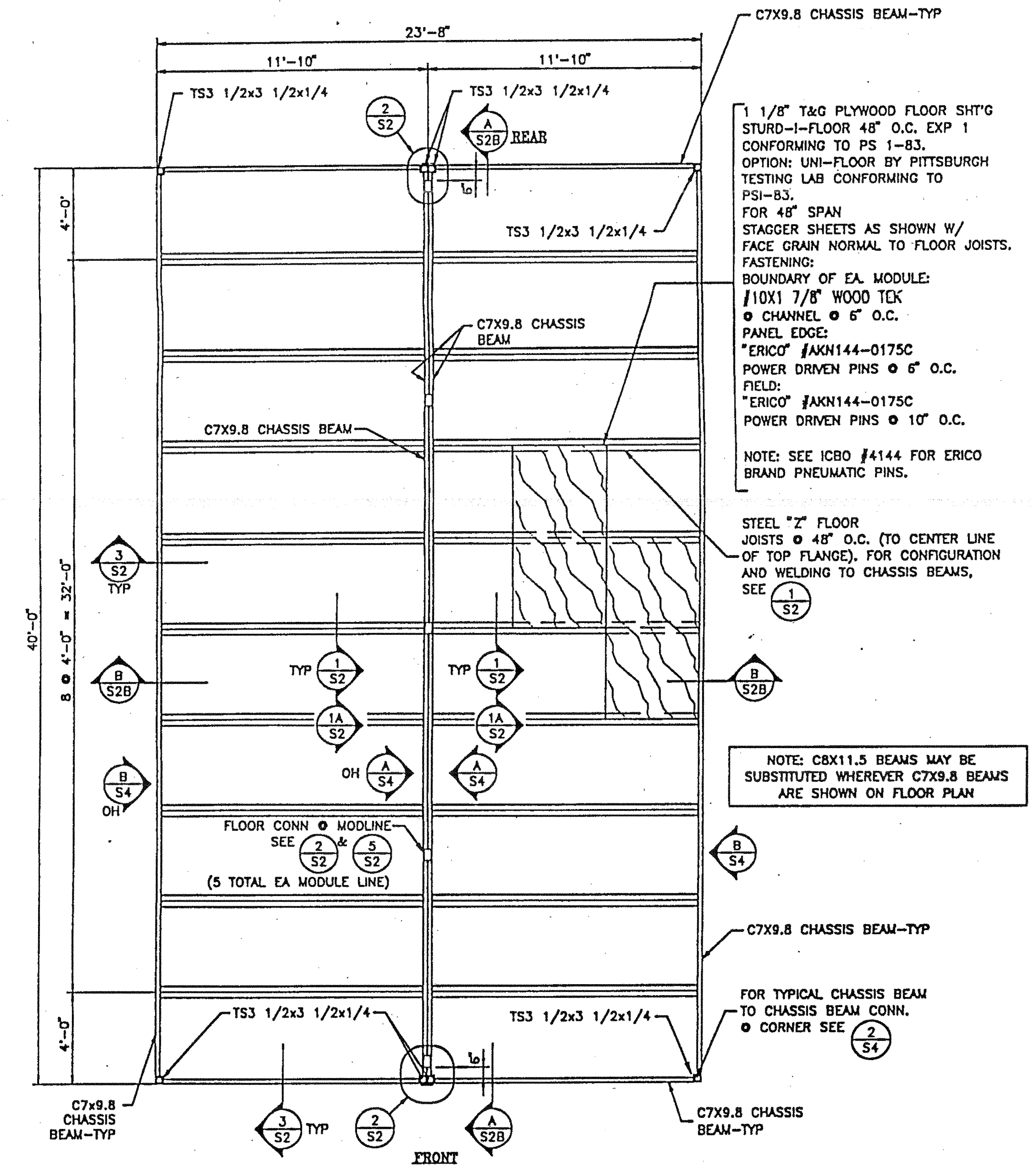
6 DETAIL
S2 1\"/>



5 DETAIL
S2 1 1/2\"/>



4 DETAIL
S2 NO SCALE



FLOOR FRAMING PLAN
S2 1/4\"/>

1 1/8\"/>

STEEL \"Z\" FLOOR JOISTS @ 48\" O.C. (TO CENTER LINE OF TOP FLANGE) FOR CONFIGURATION AND WELDING TO CHASSIS BEAMS, SEE 1 S2

NOTE: CBX11.5 BEAMS MAY BE SUBSTITUTED WHEREVER C7X9.8 BEAMS ARE SHOWN ON FLOOR PLAN

FOR TYPICAL CHASSIS BEAM TO CHASSIS BEAM CONN. @ CORNER SEE 2 S4

NOTES:
1. SEE SHEET S4 FOR TYPICAL WALL FRAMING.

PROFESSIONAL SEAL
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
DATE 4/9/97

PROFESSIONAL SEAL
DATE 8-20-97

PROFESSIONAL SEAL
DATE 8-20-97

50 PSF FLOOR LIVE LOAD

24 x 40 RELOCATABLE CLASSROOM

American Modular Systems

PROFESSIONAL SEAL
DATE 8-20-97

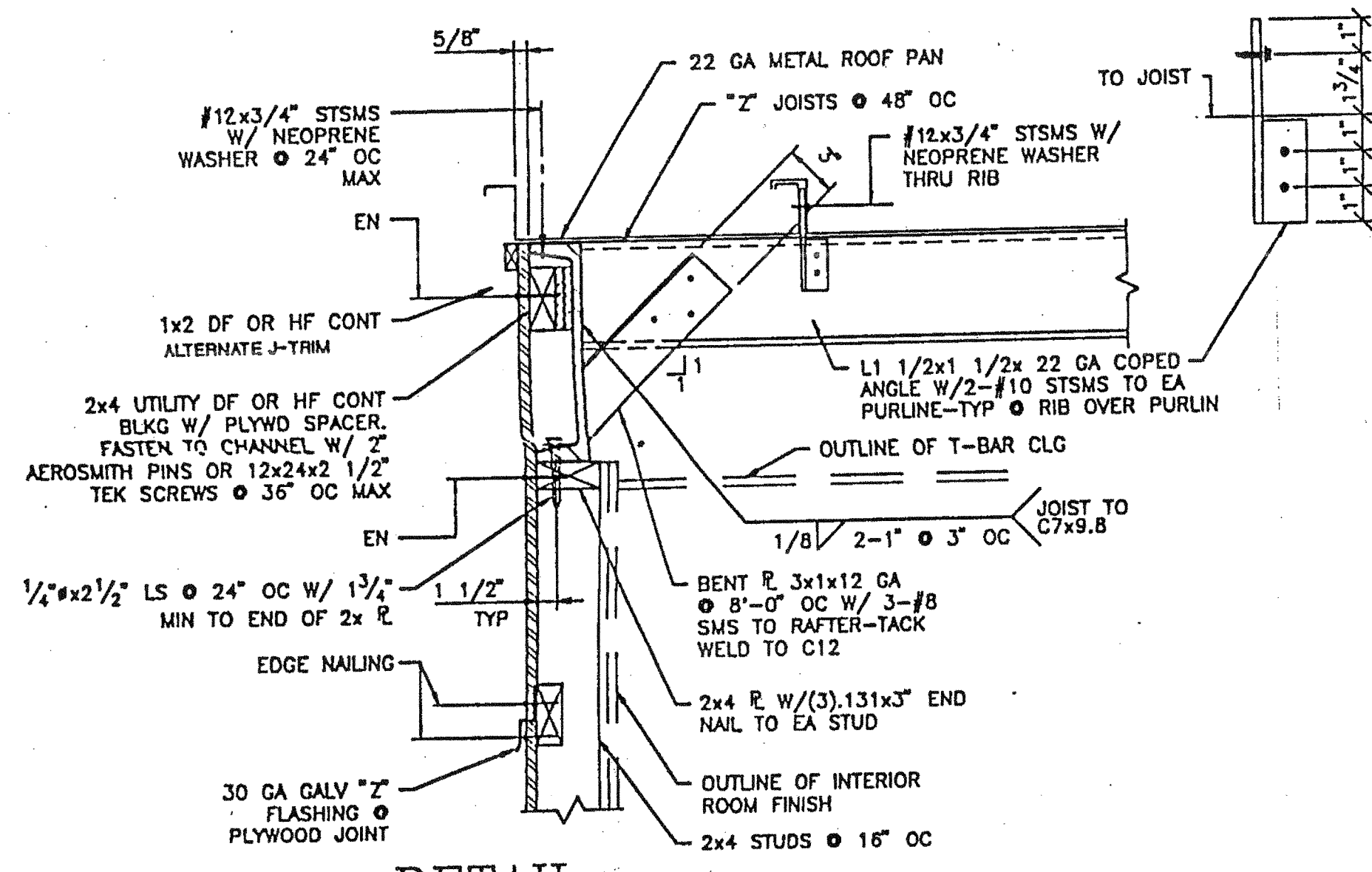
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DATE: MARCH 3, 1997
SCALE: AS NOTED
DRAWN BY: KDT
DESIGNED BY: MDB
CHECKED BY: BUR
SERIAL NO. _____

FLOOR FRAMING PLAN AND DETAILS
50 PSF FLOOR LOAD

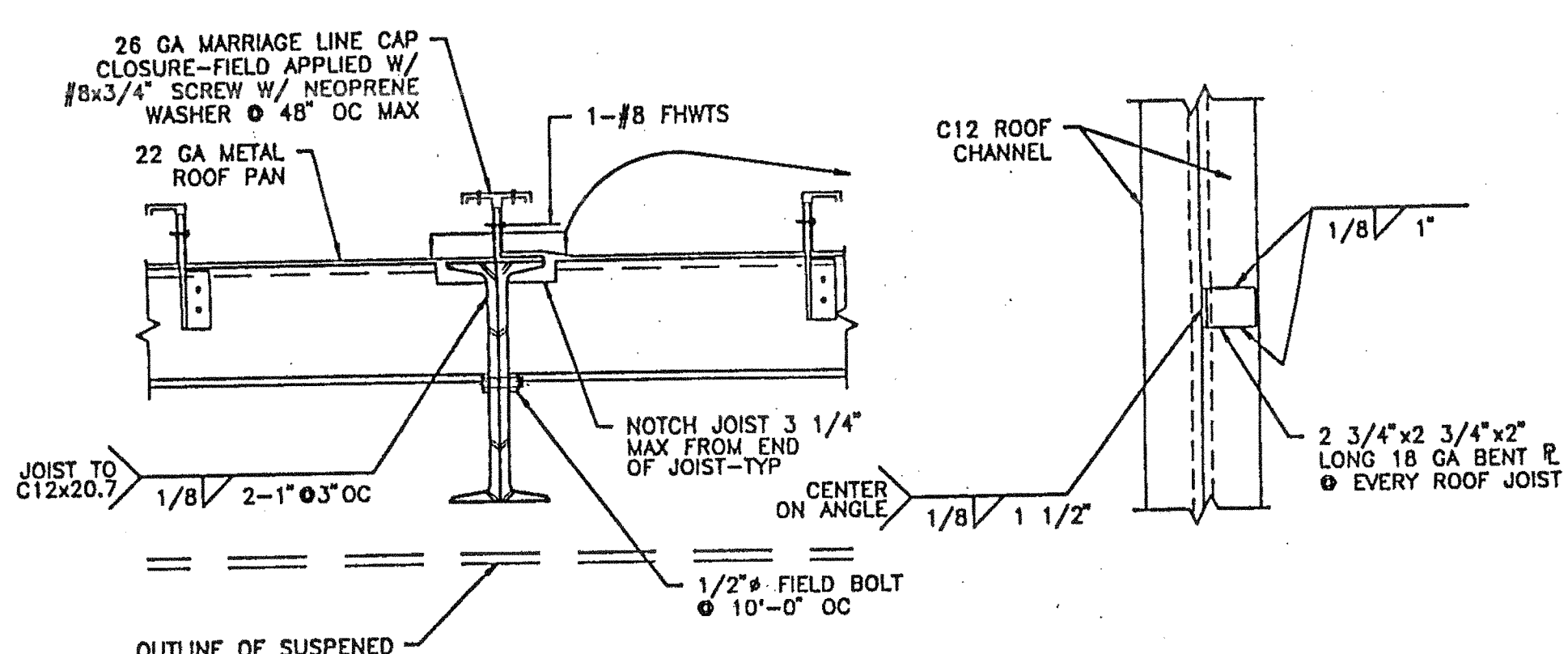
REVISIONS					
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No. 97023
SHEET No. S2

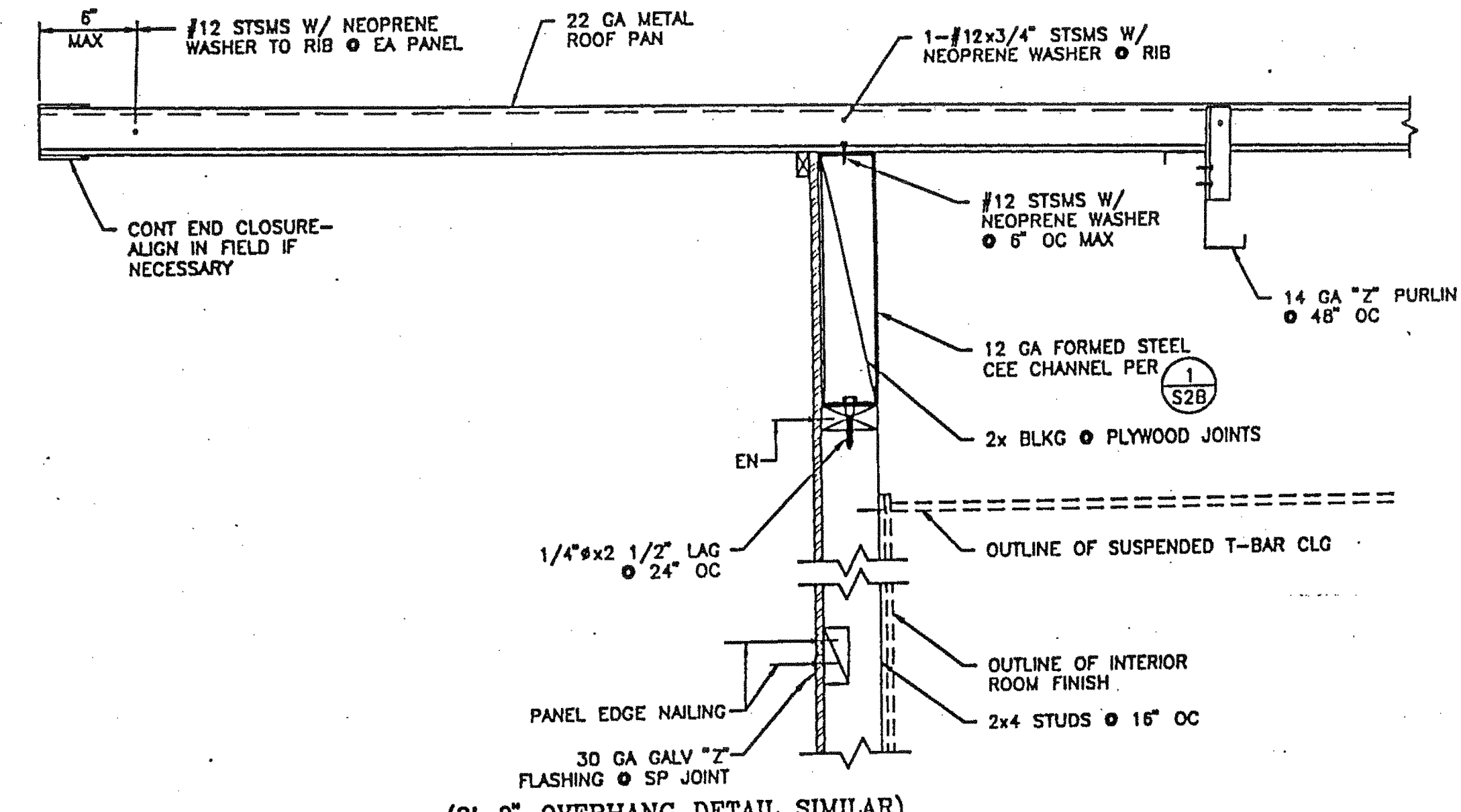
KA 97023 (REV) S2 2-10-97 3:21:18 pm EST



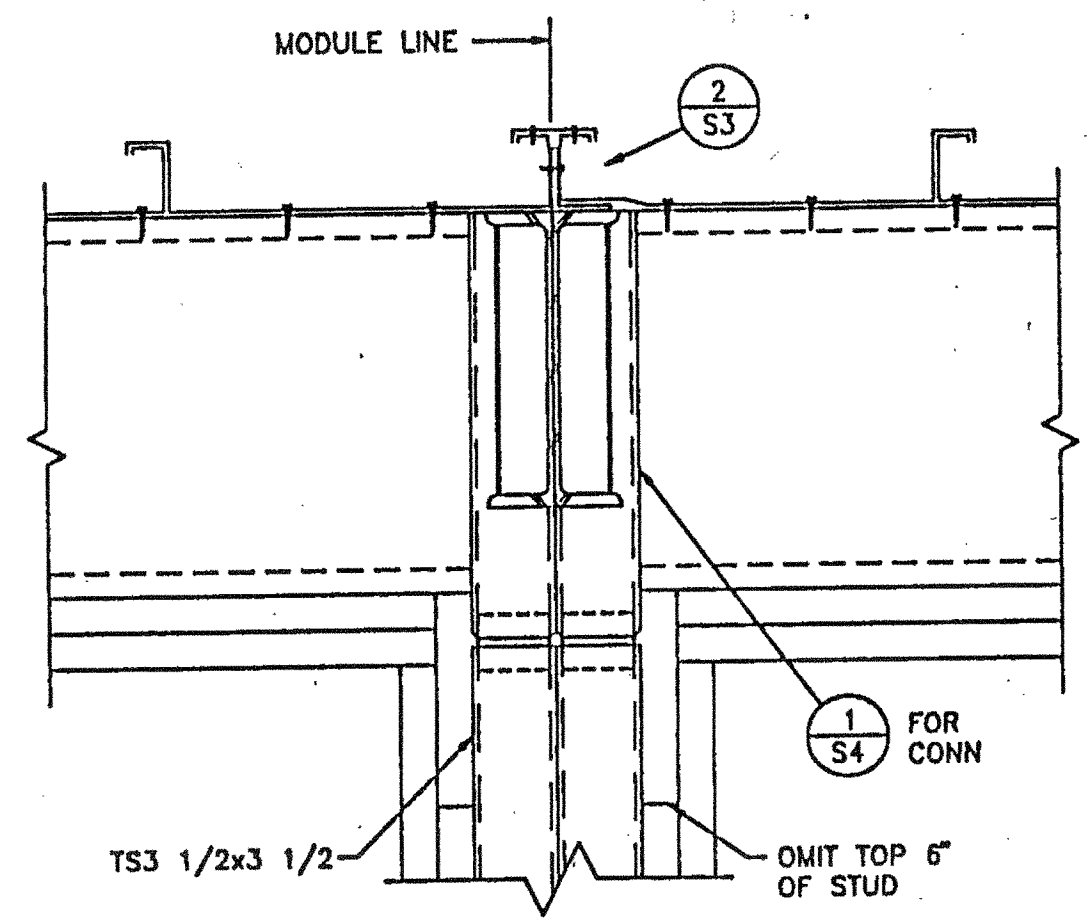
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S3
DETAIL
NO SCALE



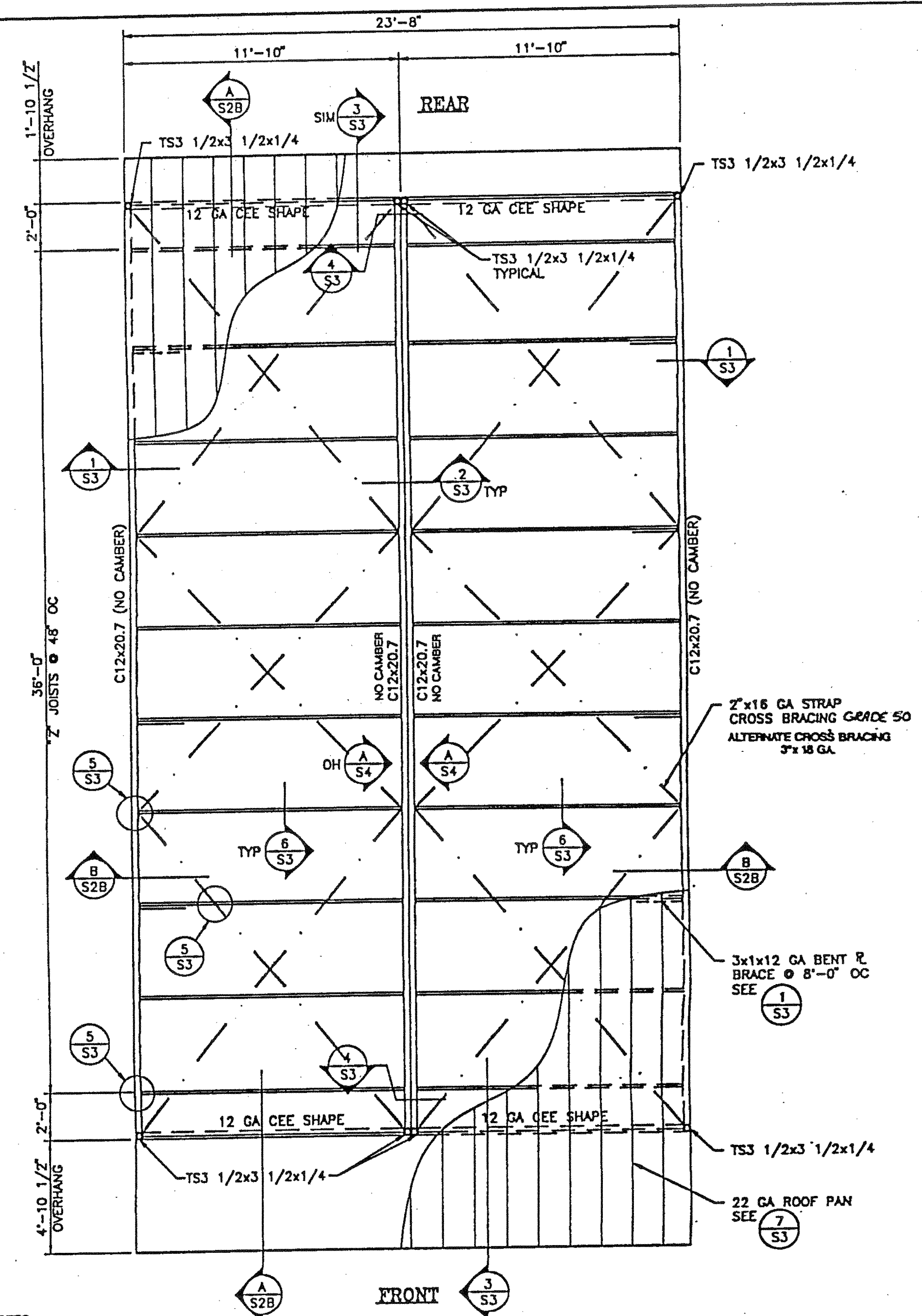
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DETAIL
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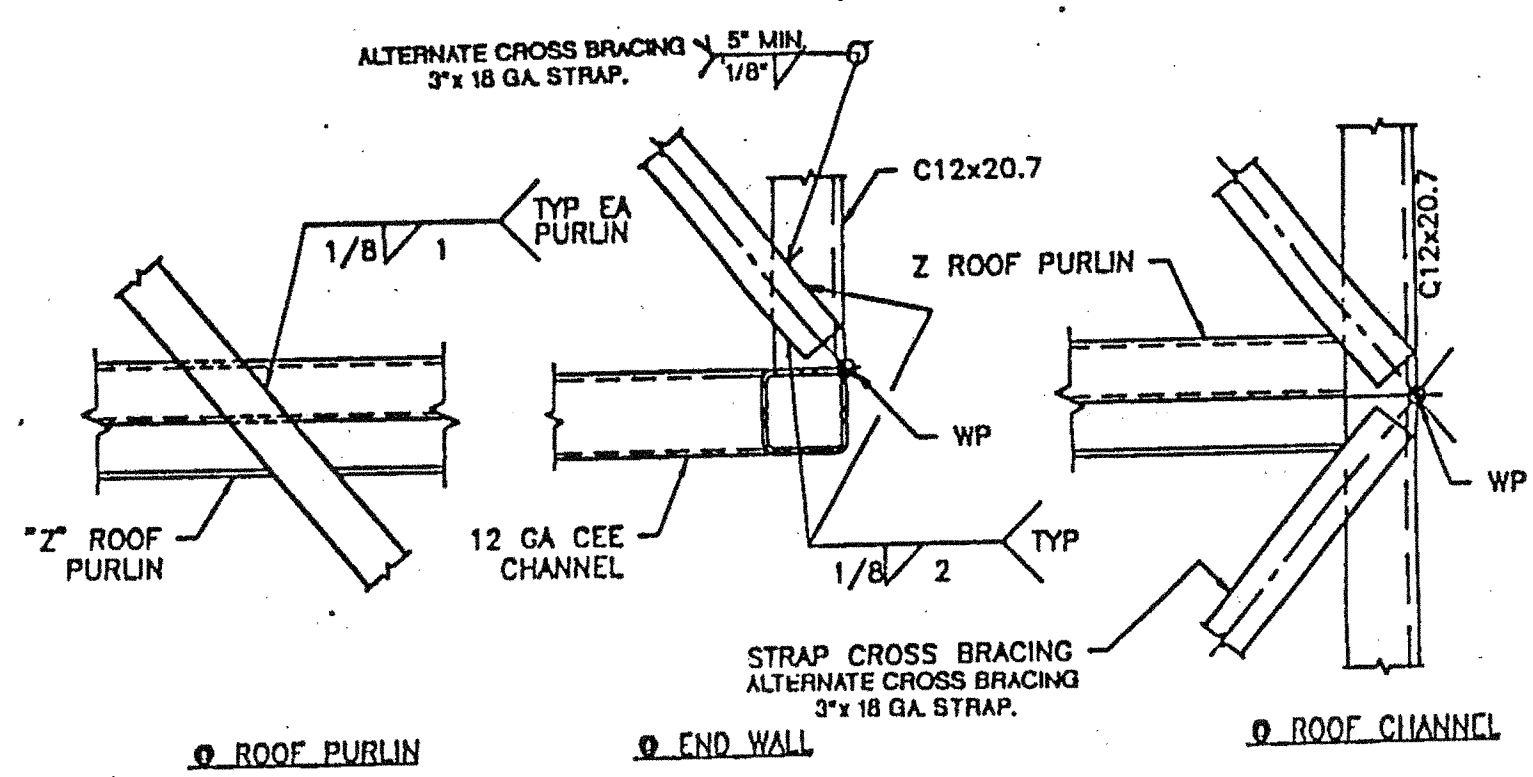
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S3
2'-0\"/>



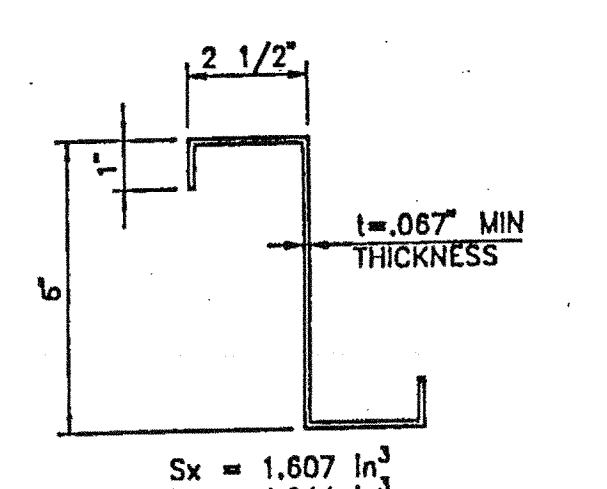
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S3
DETAIL
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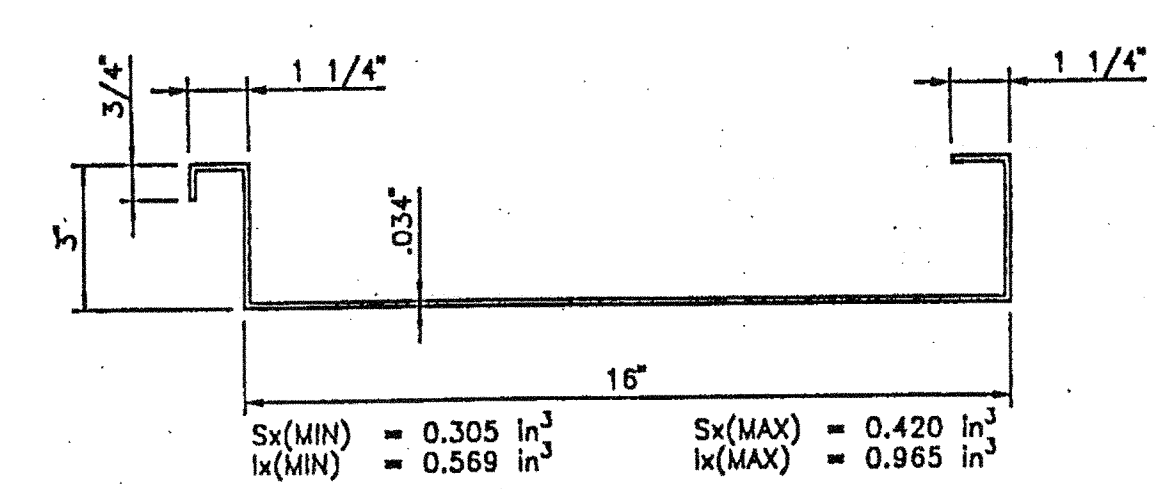
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S3
ROOF FRAMING PLAN
1/4\"/>



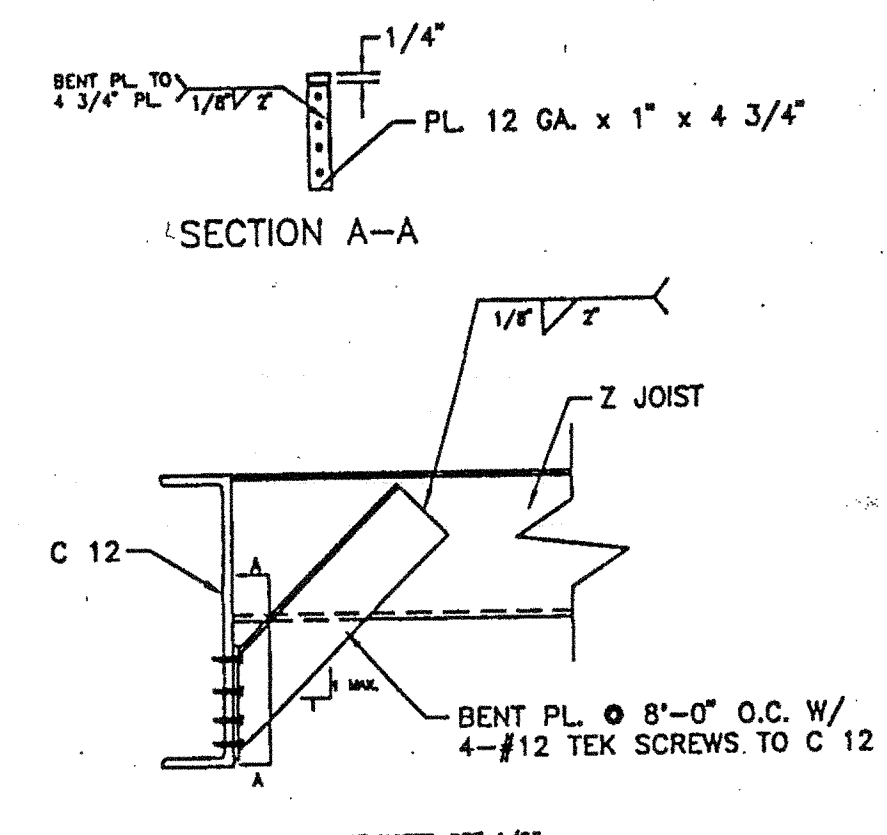
5
S3
CROSS BRACING
DETAIL
1 1/2\"/>



6
S3
14 GA ROOF PURLIN
DETAIL
3\"/>



7
S3
22 GA ROOF PAN
DETAIL
3\"/>



8
S3
ALT. BRACE CONNECTION
DETAIL
N.T.S.

NOTES:
1. SEE SHEET S4 FOR TYPICAL WALL FRAMING.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
DATE 1/10/18

PC 328
DATE 4/1/97

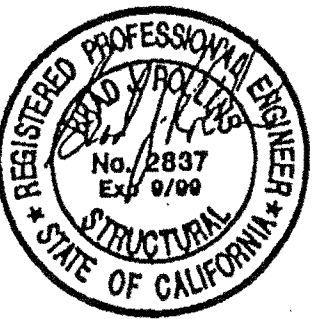
APPL 01-117316
DATE 8-20-97

PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

S3 2-27-97 9:41:11 am EST

24 x 40
RELOCATABLE
CLASSROOM

American
Modular Systems



CUSTOMER: _____

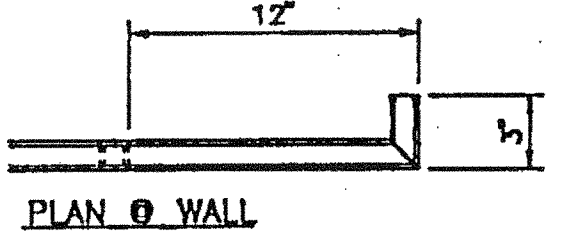
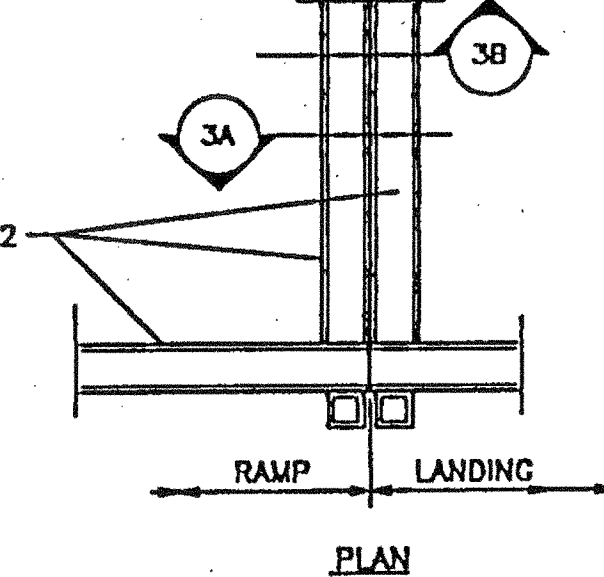
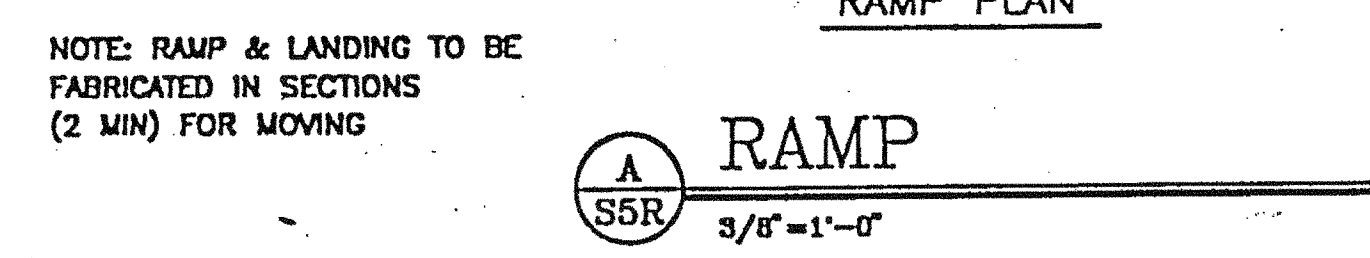
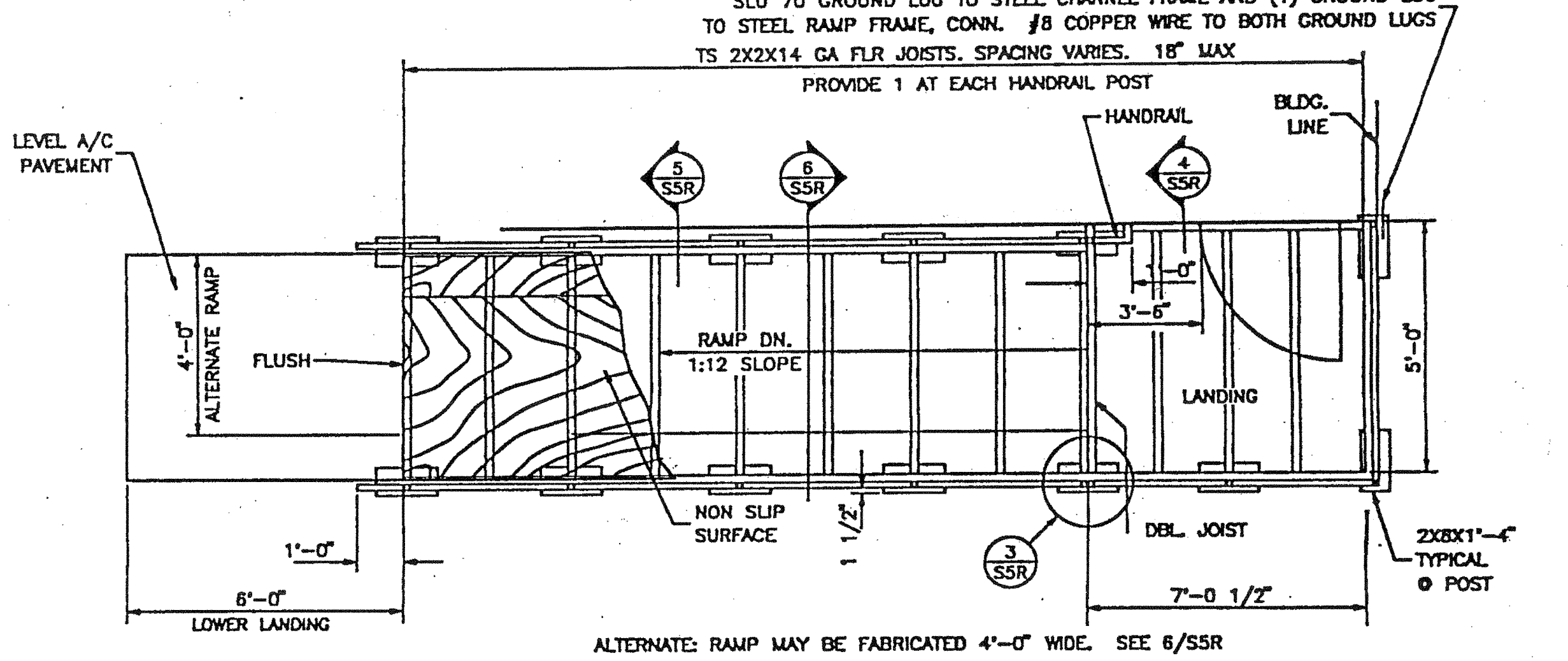
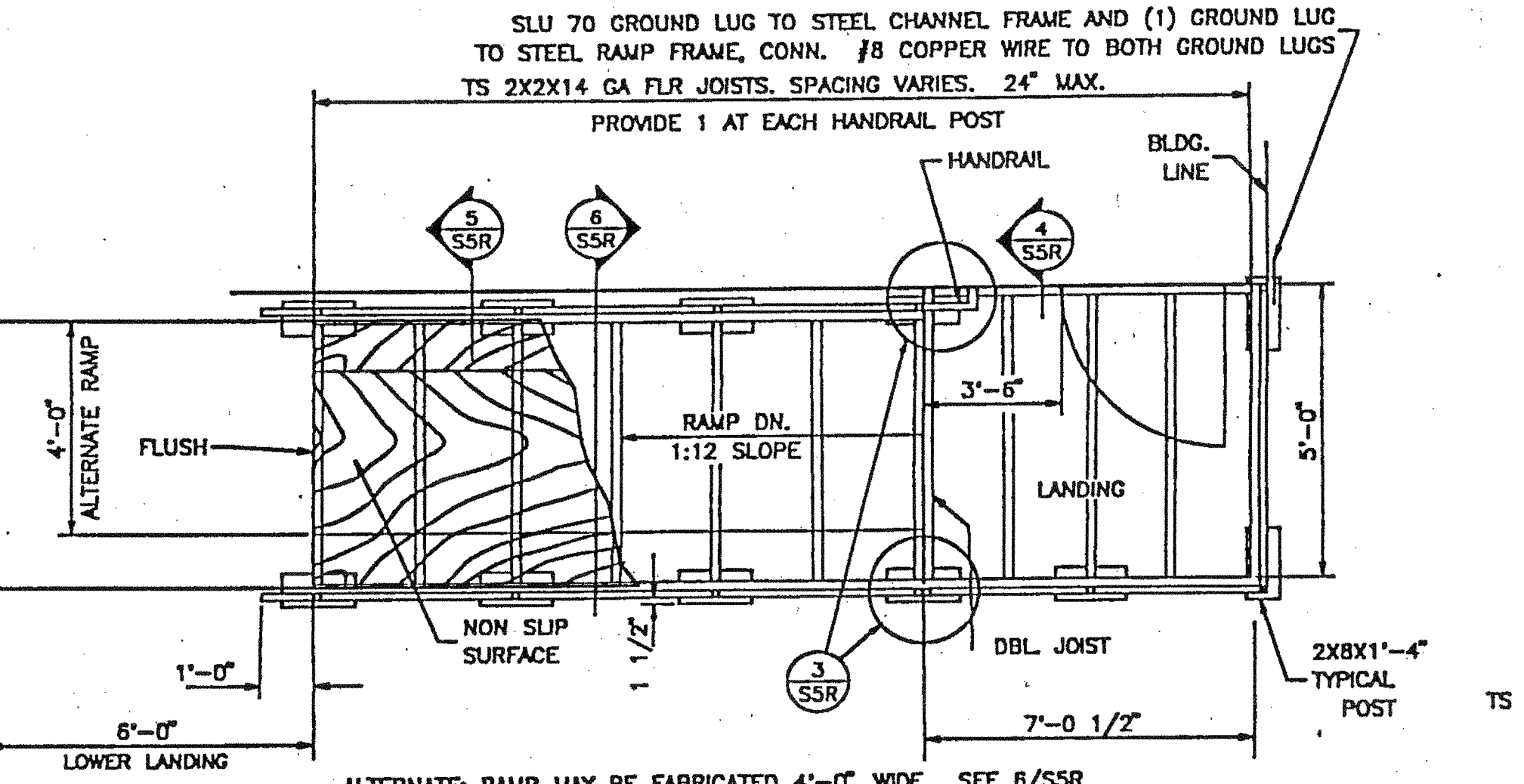
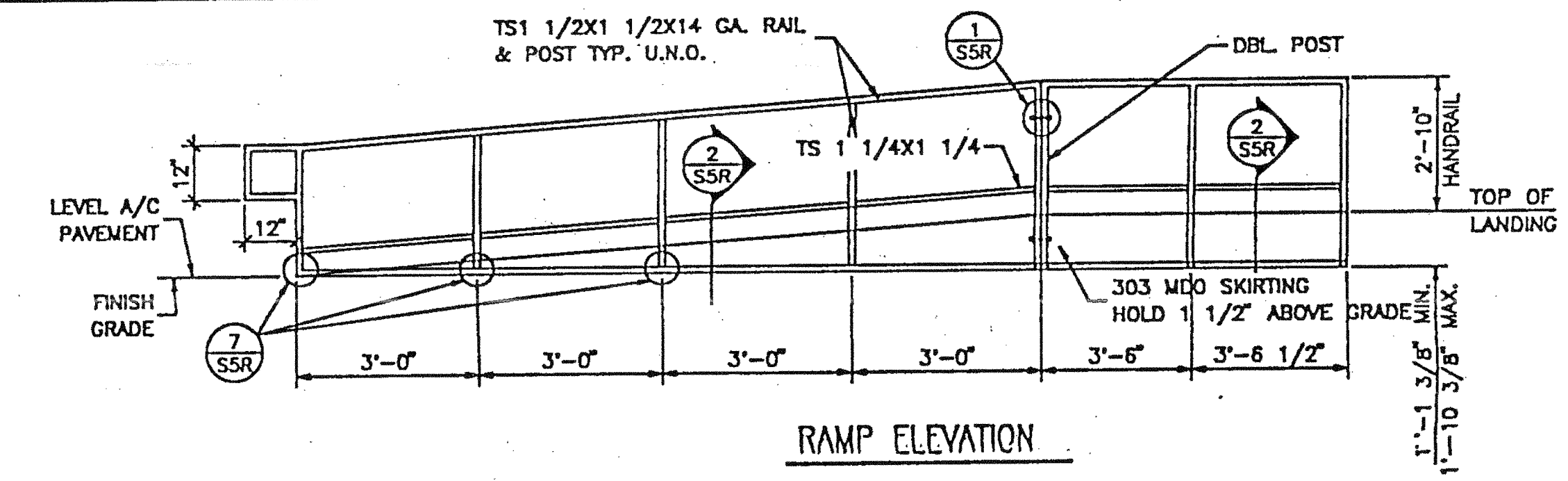
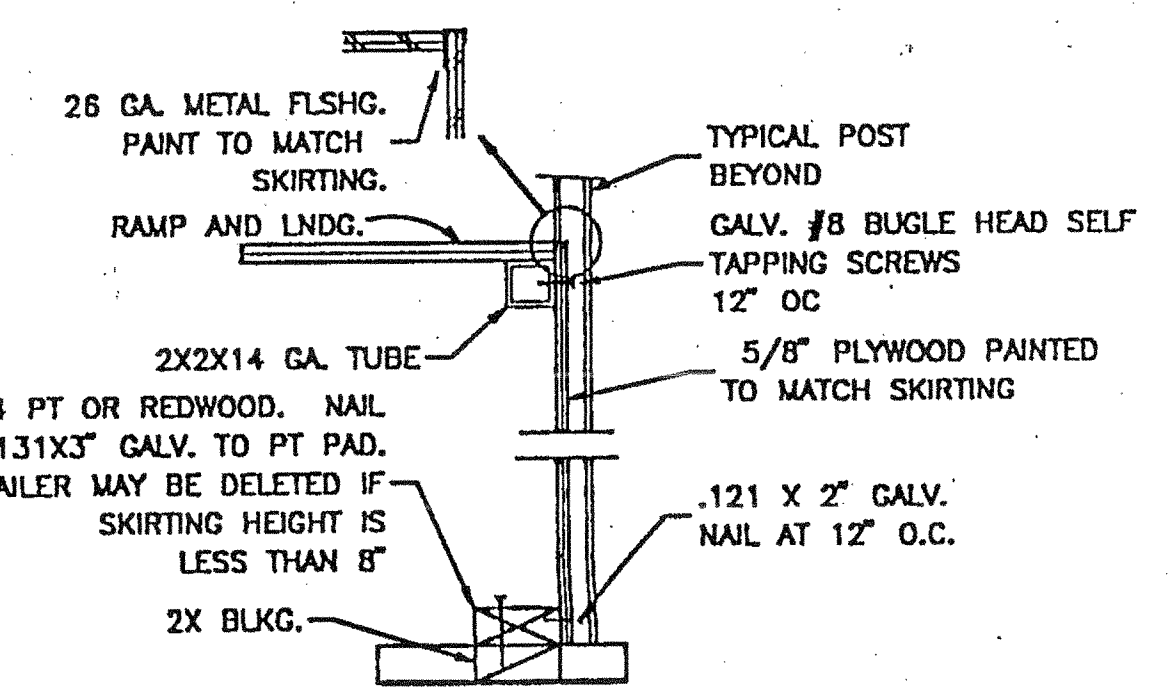
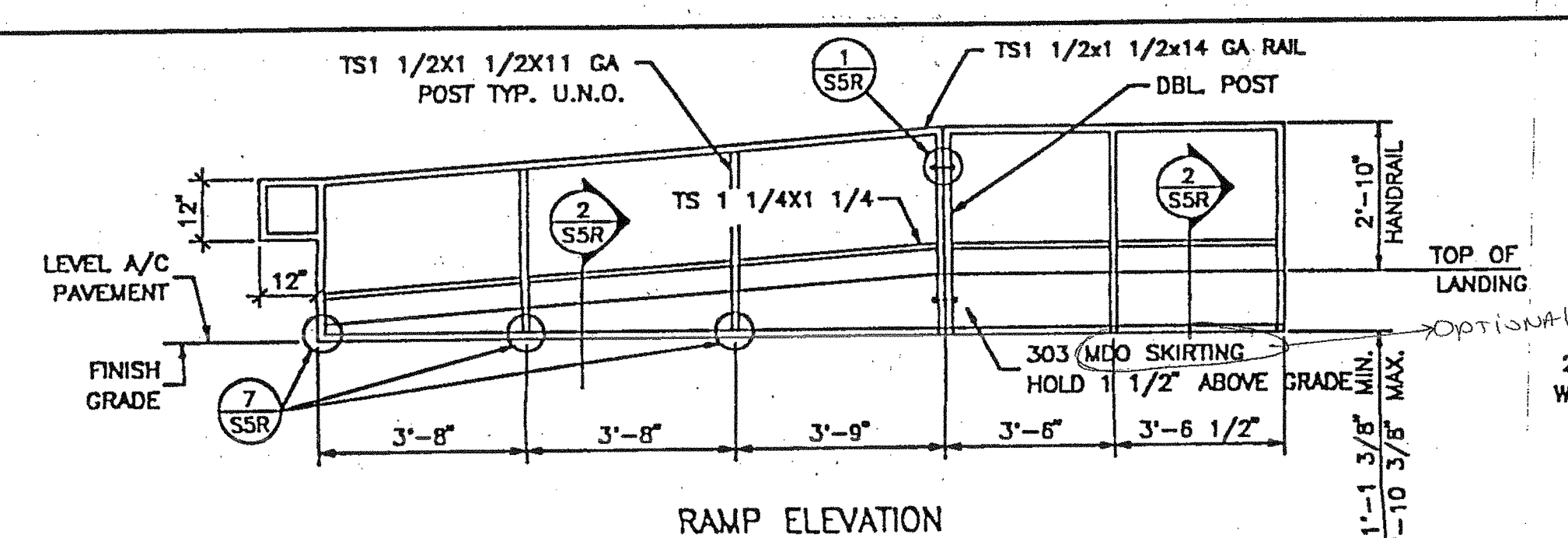
ROOF FRAMING PLAN AND DETAILS

DATE: MARCH 3, 1997
SCALE: AS NOTED
DRAWN BY: KDT
DESIGNED BY: MDB
CHECKED BY: BJR
SERIAL NO. _____

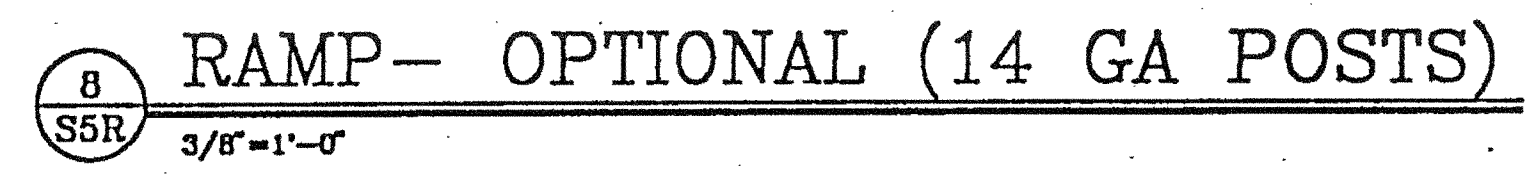
REVISIONS					
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No.
97023

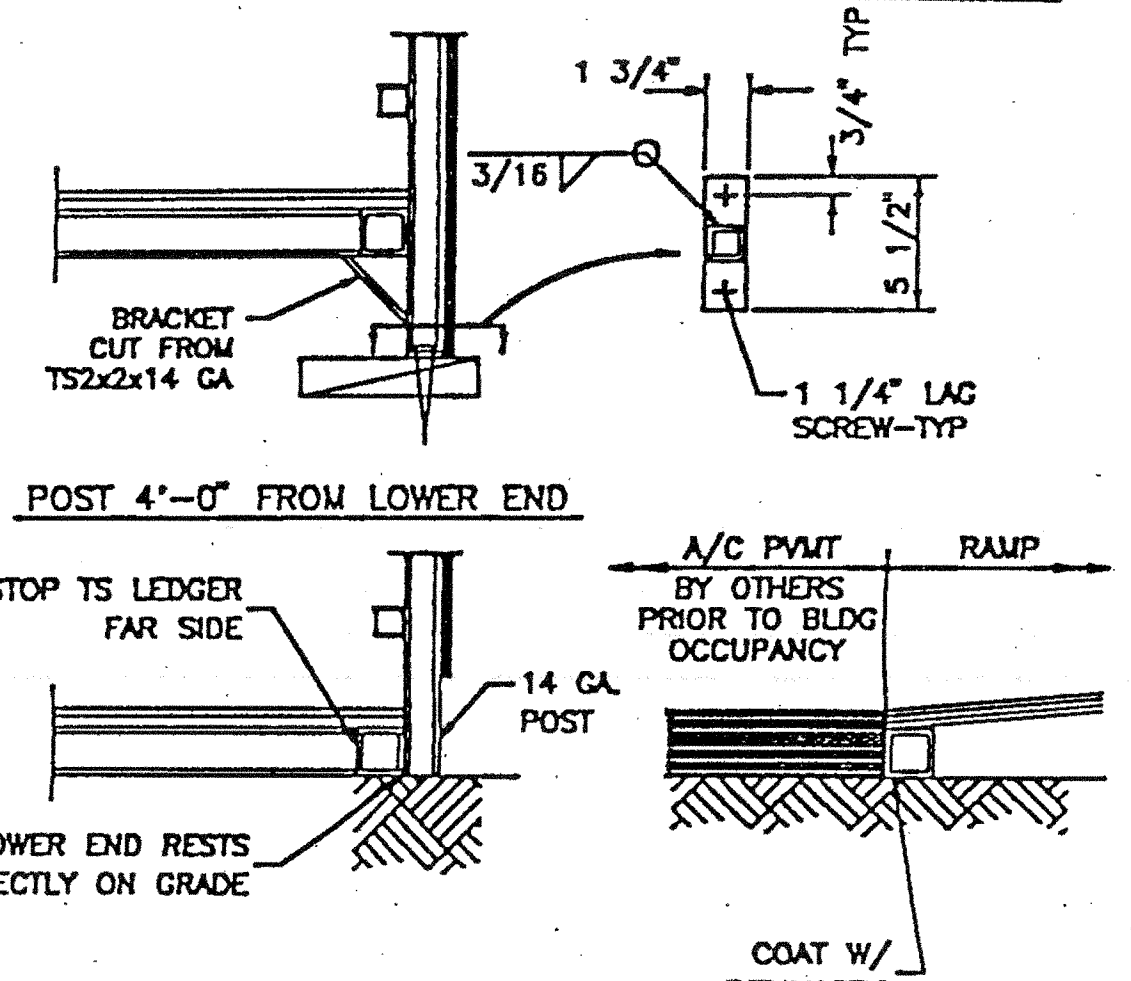
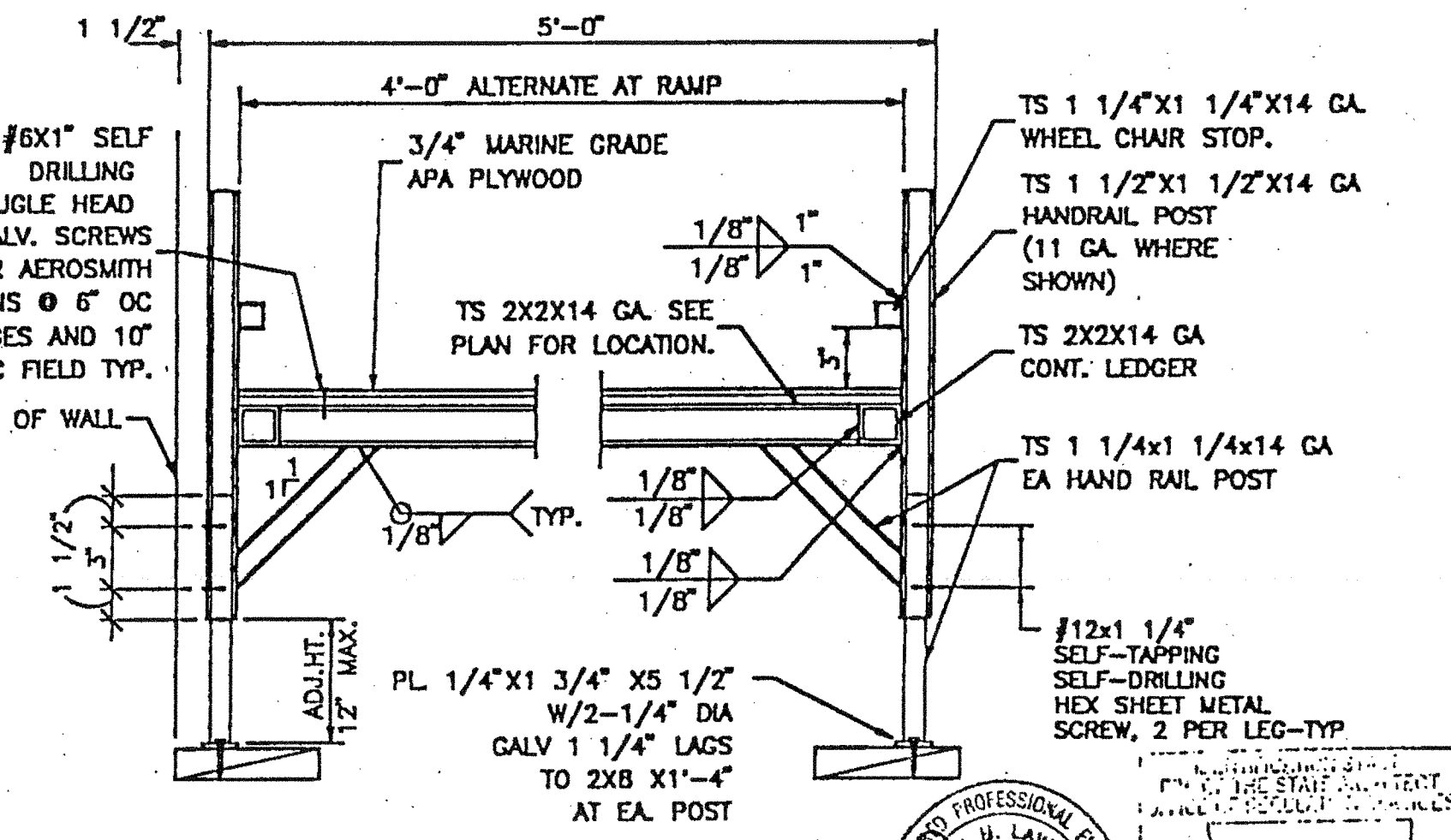
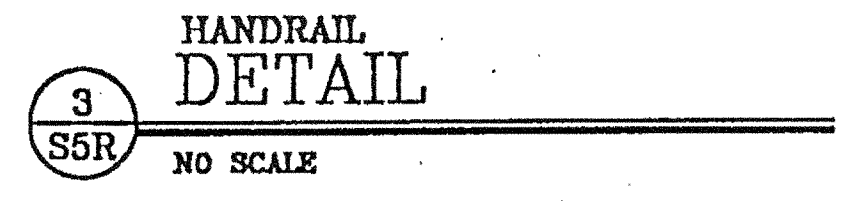
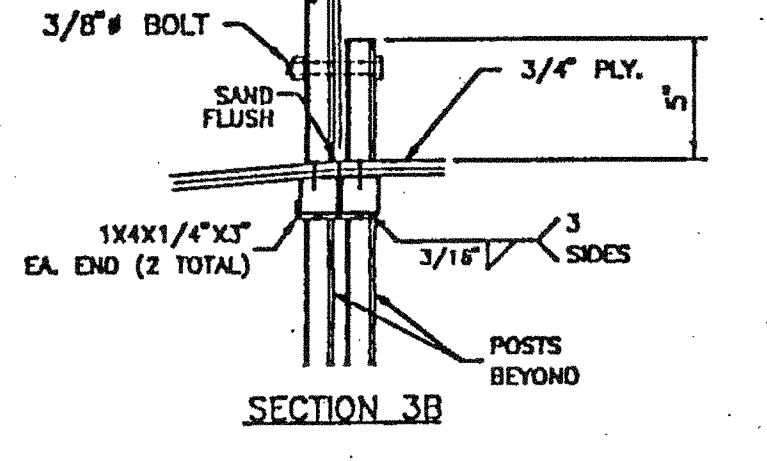
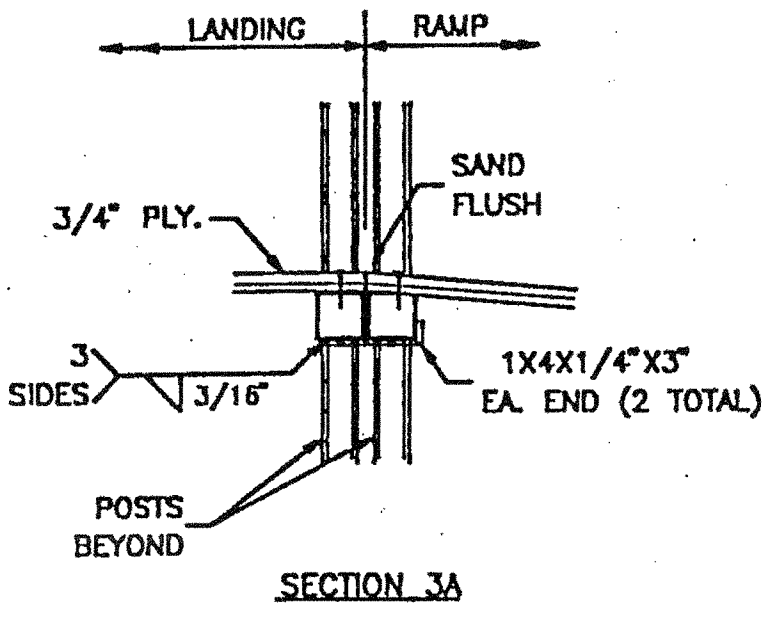
SHEET No.
S3



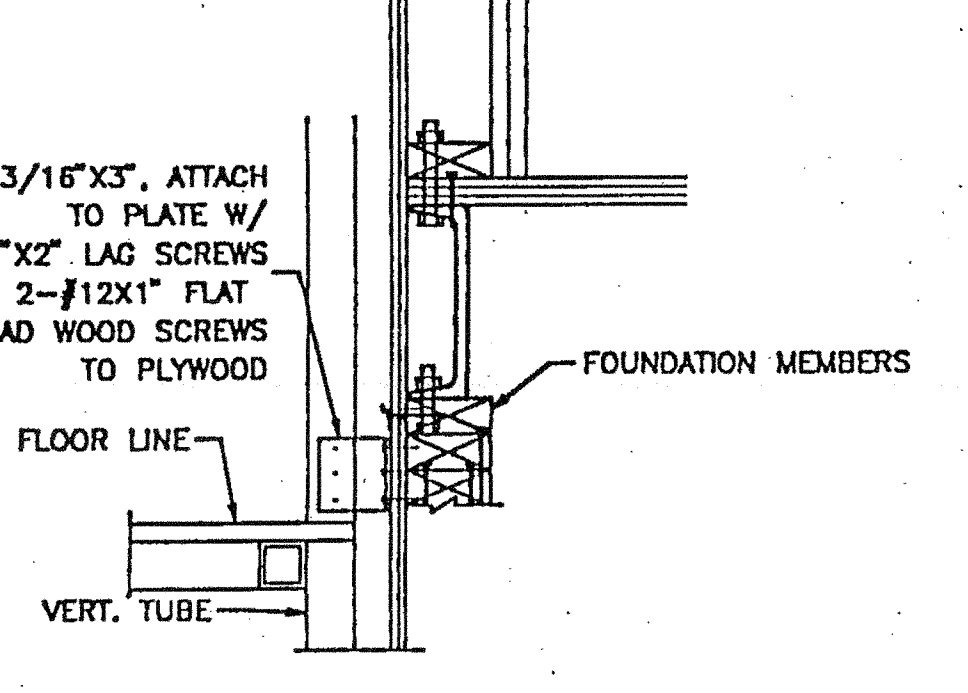
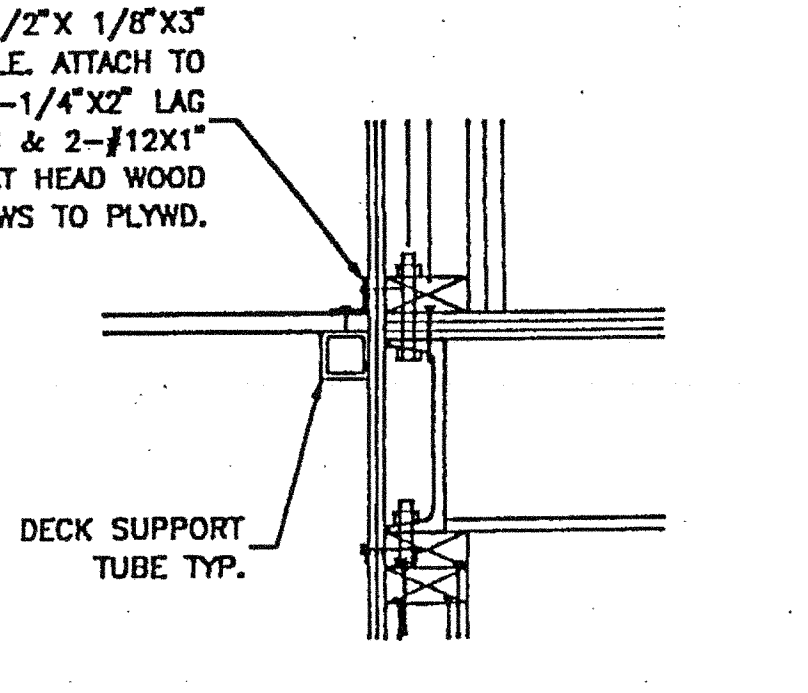
NOTE: RAMP & LANDING TO BE FABRICATED IN SECTIONS (2 MIN) FOR MOVING



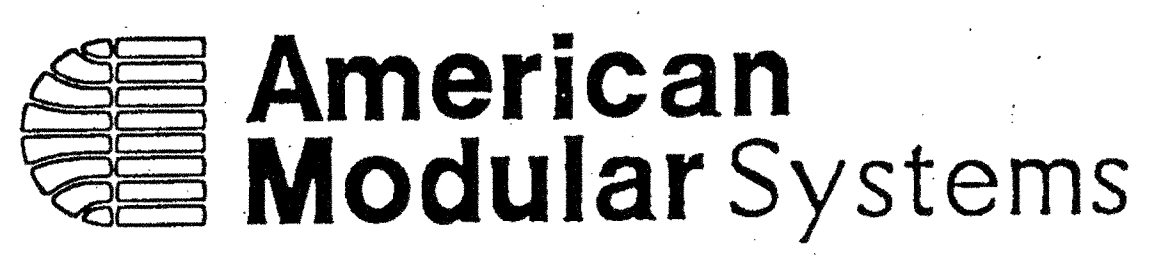
ENTRY RAMP AND LANDING SPECIFICATIONS
 EACH BUILDING SHALL HAVE A RAMP AND LANDING TO CONFORM TO TITLE 24 CCR SECTIONS 1006 AND 1007. THE RAMP AND LANDING STRUCTURES INCLUDING HANDRAIL AND WHEEL GUIDES ARE TO BE PREFABRICATED METAL IN SECTIONS THAT ARE DEMOUNTABLE FOR MOVING AND REINSTALLATION AT A NEW SITE. DESIGN SHALL BE SUCH THAT HEIGHT ADJUSTMENT CAN BE MADE AT THE INSTALLATION SITE. TUBING SHALL BE STEEL CONFORMING TO ASTM A500 GRADE B. THE RAMP SURFACE SHALL BE 3/4\"/>



FLOOR DECKING:
 3/4\"/>



GROUNDING OF BUILDING COMPONENTS:
 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING NECESSARY CONNECTORS TO GROUND THE METAL PORTIONS OF THE BUILDING (I.E. FRAME, RAMP, ETC.). GROUNDING ROD, WIRES AND TESTING SHALL BE PROVIDED BY OTHERS AND MEET THE REQUIREMENTS OF I.R. #8-1 ISSUED BY DSA.



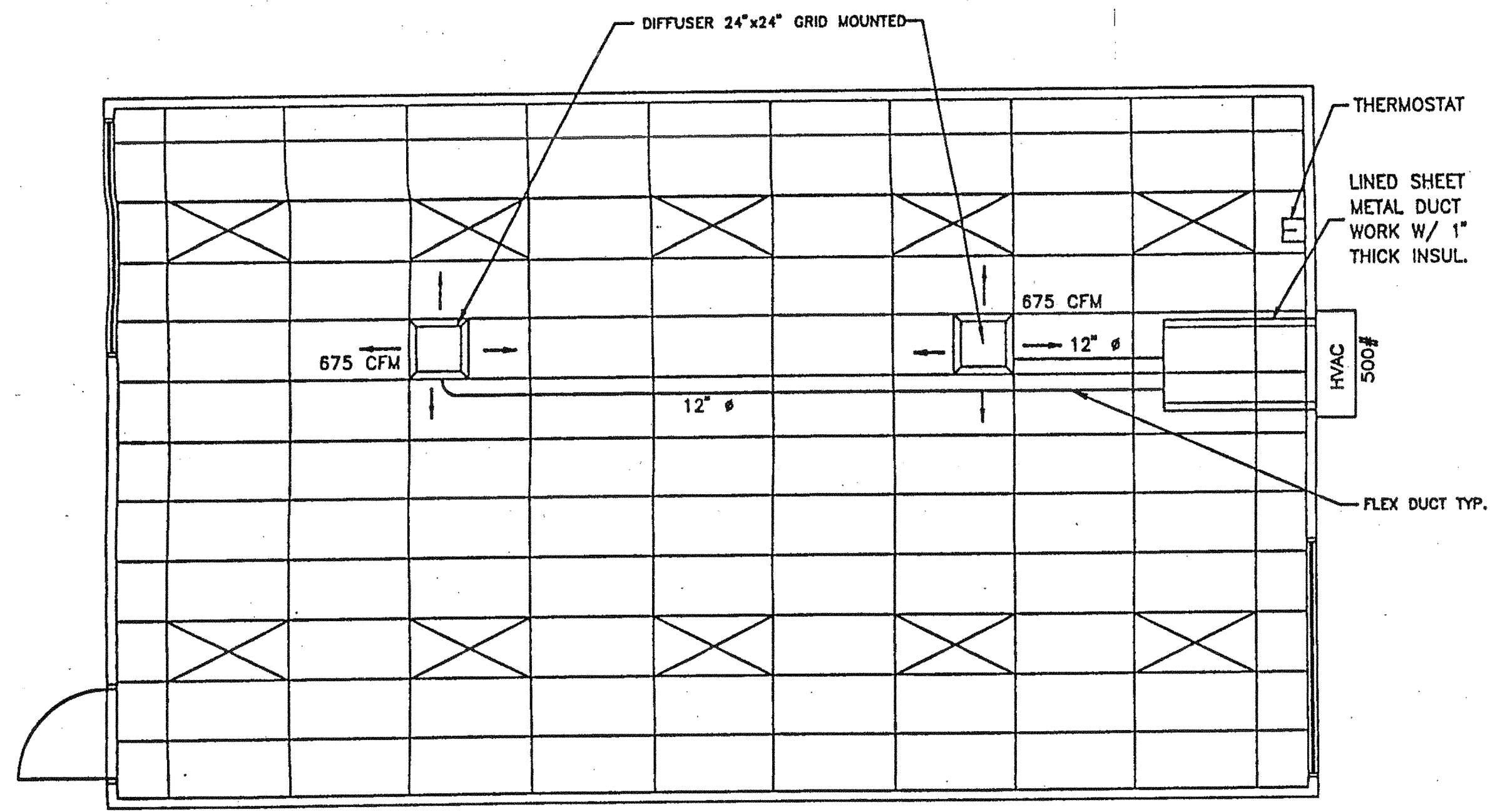
CUSTOMER: _____
 RAMP PLAN, ELEVATIONS AND DETAILS

DATE: MARCH 3, 1997
 SCALE: AS NOTED
 DRAWN BY: KOT
 DESIGNED BY: MCB
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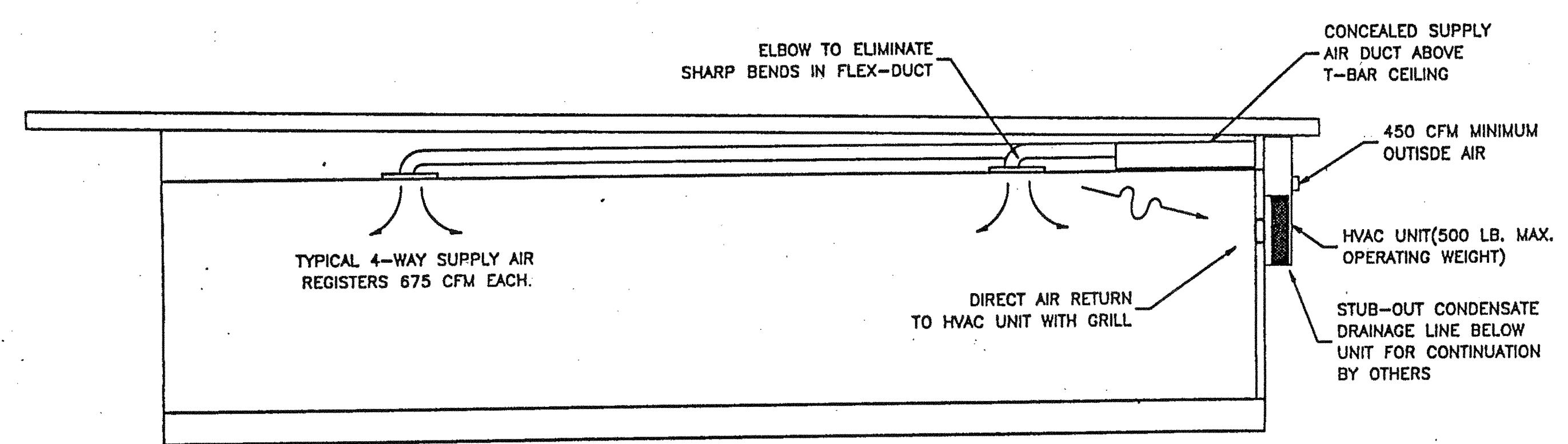
REVISIONS					
NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No. 97023
 SHEET No. S5R

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 APPL 01-117316
 ACS DATE: 1/10/18



HEAT/SUPPLY AIR DUCT LAYOUT
SCALE: 1/4"=1'-0"



HEAT/SUPPLY AIR DUCT CROSS SECTION
SCALE: 1/4"=1'-0"

DUCT SUPPORT
Flex duct to be supported with 1-1/2" wide x 26 ga. galv. strap @ max 6'-0" o.c. Attach to rafter W/2 #8 SMS @ each end.
Supply air plenum to be supported with 1-1/2" wide x 26 ga. galv. straps min. 2 per plenum.
Supply air box and diffusers to be supported with (2) 12 ga. hanger wires to box @ opposite corners.
Supply air box and diffusers to be braced with (2) 12 ga. slack wires to box @ opposite corners. Attach supply air diffusers to ceiling grid to resist a lateral load equal to the weight of the diffuser and supply air box W/2 #8 SMS.

THESE DRAWINGS COMPLY WITH THE ENERGY CONSERVATION REQUIREMENTS OF TITLE 24 OF THE STATE OF CALIFORNIA

GENERAL NOTES
HEATING VENTILATING AND AIR CONDITIONING (HVAC)
1. Heat Pump: Single package wall mounted air to air electric heat pump unit shall be rated in accordance with ARI Standard 240-77.
Reference Brands: BARD WH42A-XXXXXX
MARVAIR AVP 42 HPA-08S

All units shall be 230/208 volt, 1 phase system, UL tested & approved or comparable and meet current energy standards.

A.) The system shall maintain an automatically controlled indoor classroom temperature of 78 degrees F. When the outdoor dry bulb temperature varies between 100 degrees F. in the summer
B.) The system must maintain the above temperature when the damper is adjusted to use approximately one third fresh air.

2. Ductwork.
A.) Construct all ductwork of galvanized sheet metal in accordance with U.M.C., Ashrae Guide Equipment volume and Smacna Low Velocity Duct Construction manual latest editions. All ductwork shall be insulated with 1" thick fiberglass duct wrap with vapor barrier. Provide 1" duct attenuation at all ductwork within 5'0" of HVAC unit.
B.) Non-metallic ductwork option: In accessible concealed portions of duct system rigid 1" fiberglass or insulated flex-duct with vapor barrier may be substituted for sheet metal ductwork. All ductwork within 5' of the HVAC unit and all interface connections shall be metal. Ductwork and reinforcement shall be designed for 2" static pressure. Reference Brands: Owens-Corning fiberglass ductboard, 1" thick, and Micro-air, TYPE 475. Non-metallic ductwork shall conform to NFPA 90-A and SMACNA Class 1 rating.

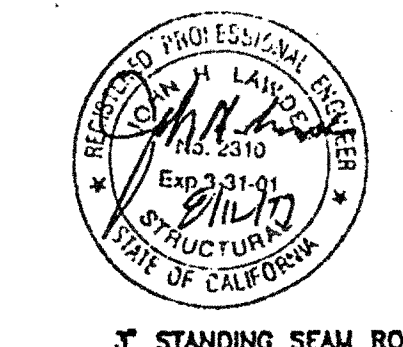
3. Air duct insulation and linings shall comply with flame spread less than or equal to 25, smoke generation less than or equal to 50.
4. Supply air diffusers shall be 675 CFM max. 15"x15" neck, steel, rigid 1" fiberglass or flexduct ductwork specifically designed to provide air thermal cooling systems. 24"x8"x1" Micro-Air type #475 Owens-Corning, Knaf, Certainteed, or equal and 90-B: UL #131 test, class 1 rating with "SMACNA".

5. Registers and diffusers: Provide three (Min) 4-way throw air diffusers as manufactured Carnes, Titus, Hart and Cooley, Metalaire, Shoemaker, Barber-Coleman or Krueger commercial grade grills and registers
6. Air conditioning controls.
Thermostat: Provide electronic programmable thermostat. Thermostat shall have the following functions:
A.) 5 and 2 weekday/weekend programming with 4 separate time/temperature setting for 24-hour period.
B.) Key board lockout switch.
C.) Programmable display.
D.) 2-hour override minimum.
E.) Status Indicated Led's.
F.) Battery back-up.
Provide locking clear thermostat cover with thermostat cover with access hole for program override. White Rodgers IF92.

7. Thermal Insulation
A.) Roof Insulation: R-19 Unfaced.
B.) Walls Insulation: R-11 Kraft Faced.
C.) Floors Insulation: R-11 Kraft Faced.
Flame spread and smoke development shall conform to California Building Code sec. 707.
8. Factory-made air ducts. Factory-made air ducts shall be approved for the use intended or shall conform to the requirements of U.M.C. Standard No. 6-1. Each portion of a factory-made air duct system shall be identified by the manufacturer with a label or other suitable identification indicating compliance with U.M.C. Standard No. 6-1 and its class designation. These ducts shall be listed and shall be installed in accordance with the terms of their listing and the requirements of UMC STD. 6-1.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 01-117316
ACS FLS SSS D.M.
DATE 1/10/98

DATE 6 9 2 1 7
DATE 8-20-97



FILE NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL/PC 328
FLS SSS D.M.
DATE 4/9/97

24 X 40
RELOCATABLE
CLASSROOMS



CUSTOMER: _____
MECHANICAL PLAN & NOTES

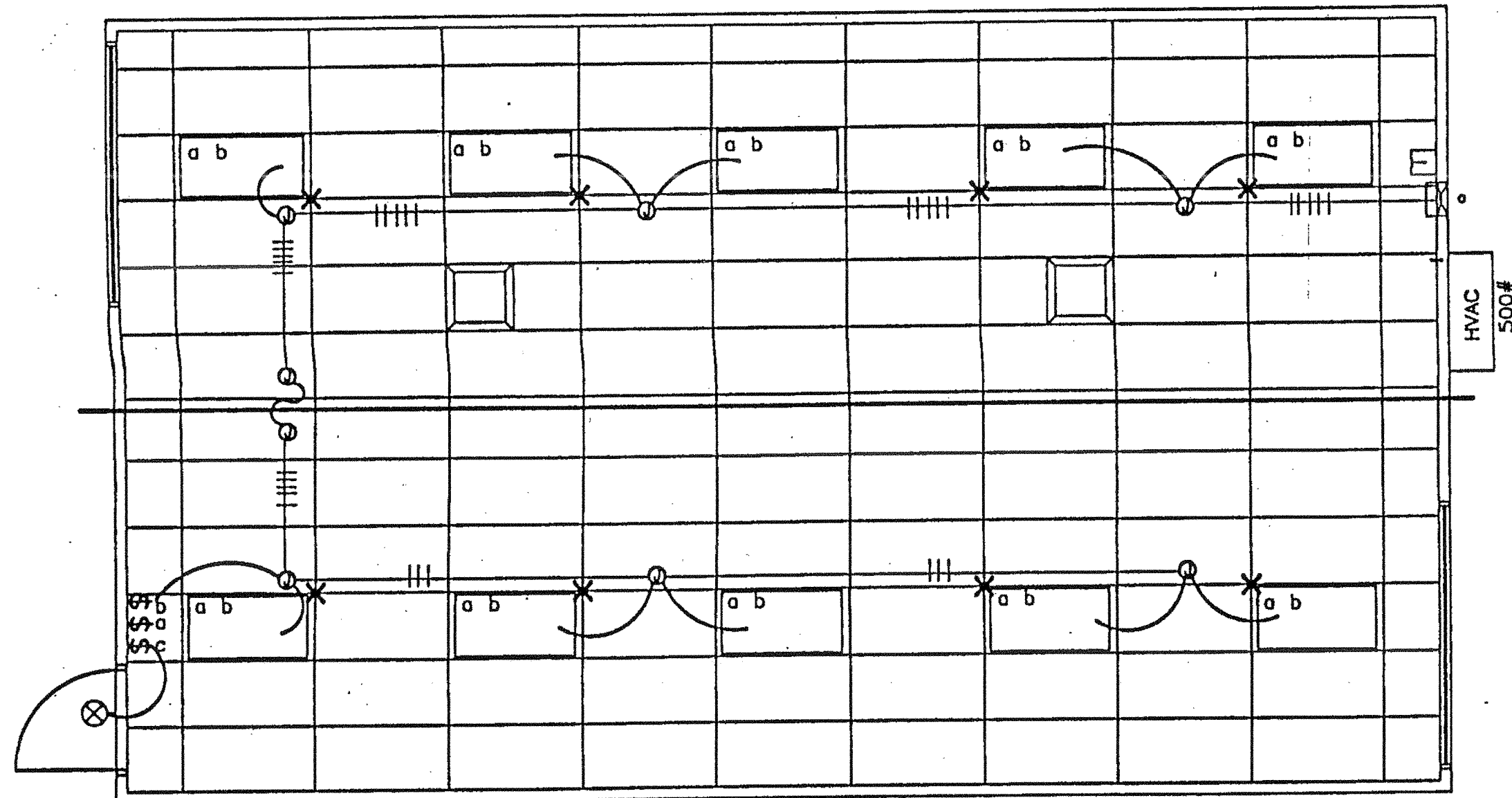
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CHECKED BY:
SERIAL NO.

REVISIONS					
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PROJECT No. _____
SHEET No. M 1

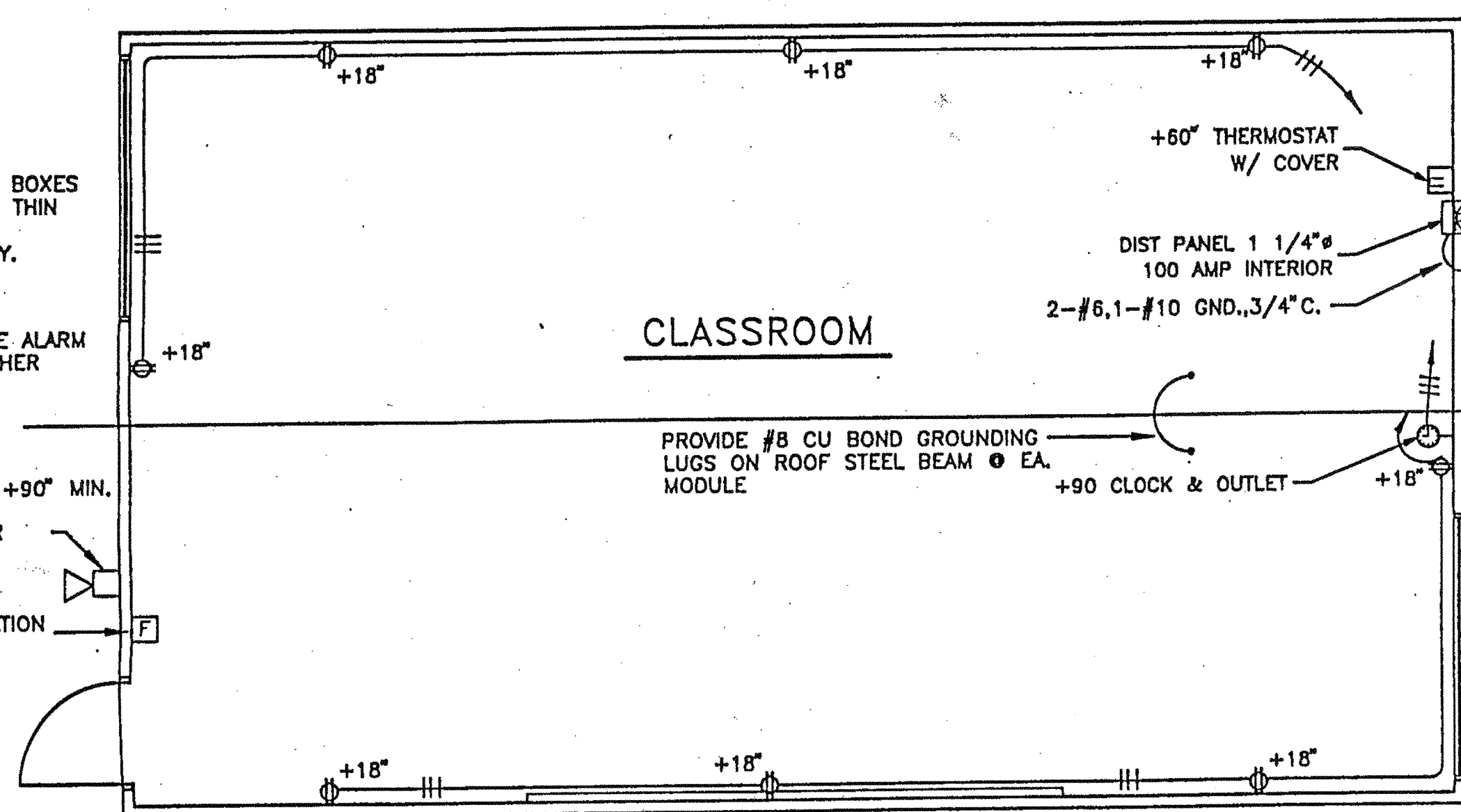
STANDARD ELECTRICAL SYMBOLS

- FLUORESCENT LIGHTING FIXTURE - SURFACE MOUNTED.
- FLUORESCENT LIGHTING FIXTURE - RECESSED.
- FLUORESCENT LIGHTING FIXTURE - WALL MOUNTED (EXTERIOR).
- INCANDESCENT LIGHTING FIXTURE - WALL MOUNTED (INTERIOR).
- DUPLEX WALL CONVENIENCE OUTLETS +18".
- SINGLE POLE LIGHT SWITCHES +48", HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- ELECTRICAL CROSSOVER J-BOXES ABOVE T-BAR CEILING #1-4"x1", #22 4"x2"
- WALL CLOCK OUTLET WITH POWER OUTLET +84".
- 15 AMP DUPLEX RECEPTACLE +18", HOSPITAL GRADE.
- JUNCTION BOX - SIZE AND TYPE AS REQUIRED.
- PANELBOARD - SEE SCHEDULE.
- TERMINAL CABINET - SIZE AND TYPE AS NOTED.
- CONDUIT CONCEALED IN CEILING OR WALL.
- CONDUIT CONCEALED BELOW FLOOR OR GRADE.
- HOMERUN TO RESPECTIVE PANEL TO TERMINAL.
- INDICATES 1/14 (GREEN) GROUND WIRE, OTHER SIZES AS INDICATED.
- BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION IS A 2#14 WIRE CIRCUIT, FOR MORE THAN 2#14 WIRES AS FOLLOWS, -#11-3#14, -#11-4#14 ETC. FOR OTHER SIZES AS FOLLOWS, -#11-3#10, -#11-4#6 ETC.
- NOTE: FIXTURE IDENTIFICATION - LETTER INDICATES TYPE.
- N.I.E.S. ABBREV. FOR NOT IN ELECTRICAL SECTION OF THESE PLANS AND SPECS.
- ET ABBREV. FOR EMPTY CONDUIT WITH POLY PULL CORD.
- FUSED DISCONNECT SWITCH SIZE AS REQUIRED, PROVIDE FUSES AS RECOMMENDED BY EQUIPMENT SUPPLIER.
- [W.E.F.] WALL MOUNTED EXHAUST FAN N.I.E.S. CONNECT AS REQUIRED.
- 50 AMP 250 VOLT RANGE RECEPTACLE.
- FIRE ALARM STATION - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48" CENTERLINE
- FIRE ALARM HORN - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +90" MIN. AND NOT LESS THAN 6" BELOW FINISHED CEILING.
- FIRE ALARM VISUAL ALARM - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER BOTTOM +80", A.F.F. BUT NO GREATER THAN +90", IF CEILING MOUNTED PER NFPA72 TABLE 8-4.4.1(b).
- SPEAKER - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +84"
- INTERCOM TELEPHONE - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48"
- FIRE ALARM MINI HORN - OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +90" MIN. AND NOT LESS THAN 6" BELOW FINISHED CEILING.



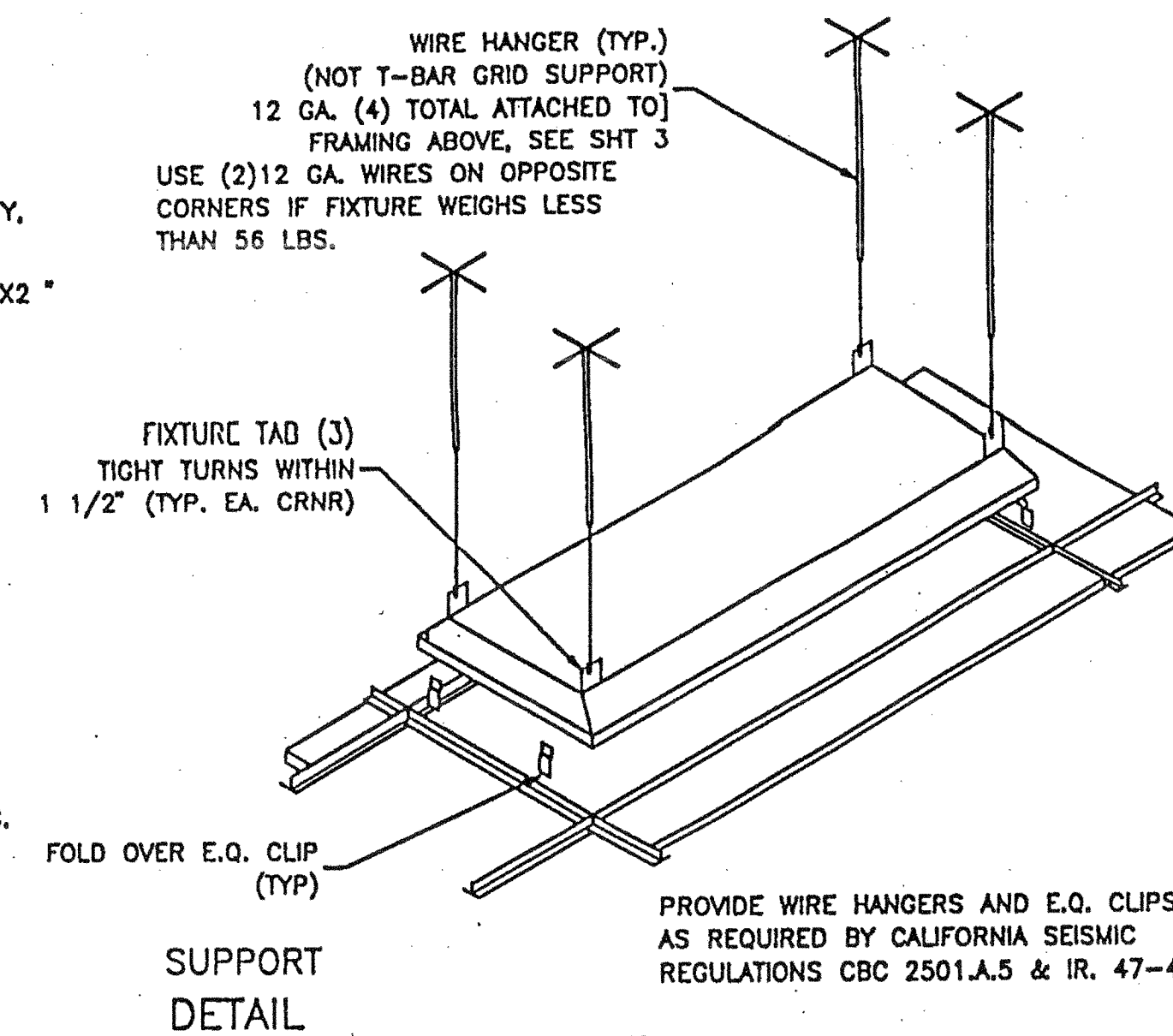
1 LIGHT FIXTURE PLAN
E1 1/4" = 1'-0"

The H.V.A.C. unit feeder circuit - panel circuit breaker, unit disconnect and fuses (where used) - is to be coordinated with the name plate data at the time of manufacture. H.V.A.C. units having KVA ratings larger than that indicated on this panel schedule will not be allowed to be installed on this building. If 80 degree C. wire is to be used in this installation, calculations demonstrating ampacity be provided on the drawing.



2 ELECTRICAL PLAN
E1 1/4" = 1'-0"

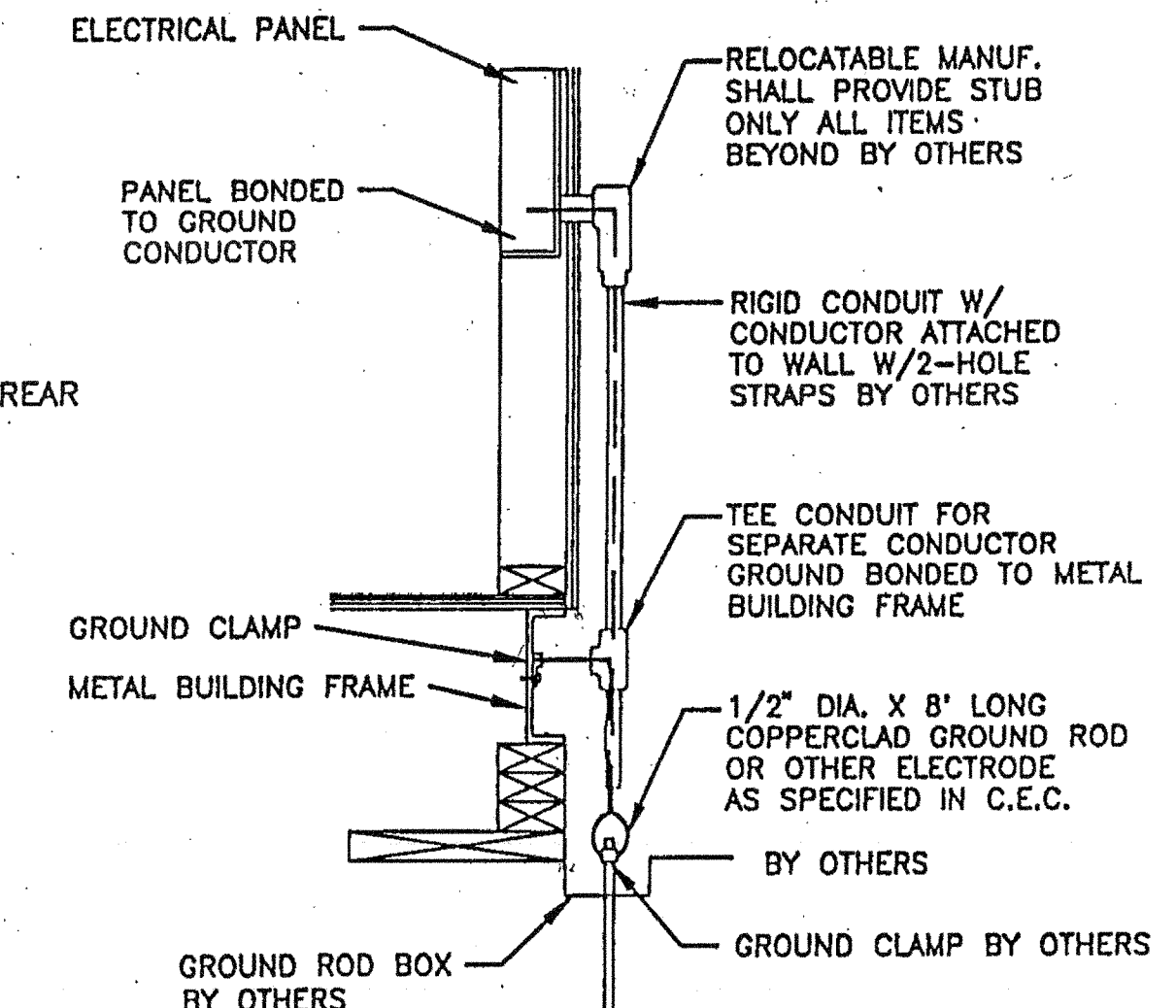
FIRE ALARM Junction boxes - Galvanized sheet metal, square or rectangular with blank covers. Locate one box at rear of building near main electrical panel at +18" above finish floor for future connection. Covers - install gasketed, metal, waterproof, finish covers at exterior locations. Install finish covers at interior locations. If testing results determine fire alarm audibility does not meet 15db over ambient noise levels, additional fire alarm signaling devices may be required by the enforcing agency



SUPPORT DETAIL
PROVIDE WIRE HANGERS AND E.O. CLIPS AS REQUIRED BY CALIFORNIA SEISMIC REGULATIONS CBC 2501.A.5 & I.R. 47-4

SYMBOL	DESCRIPTION	WATTS	MANUFACTURER
[Symbol]	2"x4" FLOURESCENT DROP IN FIXTURE, ACRYLIC PRISMATIC LENS, ENERGY SAVING BALLAST, (4)35 WATT TUBES, WT. 27 LBS.	156 W	CRESCENT 24TF440DLA
[Symbol]	FLOURESCENT SURFACE MOUNTED EXTERIOR LIGHT WITH IMPACT RESISTANT ENCLOSURE, .125 THICK CLEAR PRISMATIC ONE PIECE LENS W/ NEOPRENE GASKET & "POSDIGRIP" STAINLESS STEEL SCREWS.	(2) 7W 2700 K	KENALL 3714 OR LITHONIA 202 2/7PL LP
[Symbol]	INCANDESCENT WALL MOUNTED	150W	PROGRESS P3011x30"

SEE TYPICAL CLASSROOM LAYOUT FOR LOCATIONS OF ALL DEVICES. FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.



Size of conductors shall comply W/CEC Table Bond separate conductors from ground rod to electrical panel & metal building fram. In addition to the detail shown above, bond the electrical ground to metal water pipe embedded @ least 10' into the soil if available. Electrical bond modules together W/#8 CU @ modline. By manufacturer. Check resistance to ground. If resistance exceeds 25 OHMS, install additional ground rods as required. Grounding detail per I-R 8-1.

A BUILDING GROUND DETAIL
E1 N.T.S.

FIRE ALARM SYSTEM
1. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, ARTICLE 760 & C.A. FIRE CODE ART. 10.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE DIVISION OF THE STATE ARCHITECT.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.

GENERAL NOTES
1. GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC 250-94 & 95.
2. ALLOW FOR 12" MOVEMENT IN ANY DIRECTION IF PAD FOUNDATION IS USED.
3. PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
4. PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.

FIXTURE NOTES:
1. ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
2. LUMINATES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE TITLE 24.
3. FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.

ELECTRICAL
1. Electrical service drop and connections supplied by others.
2. Manufacturer to provide stub-out from back of electrical panel through the exterior wall for receiving either underground or overhead service & fitting for grounding cable.
3. Electrical panel board shall be recess mounted inside the building. Sized to accommodate all connected loads including spaces as shown. Overcurrent protective devices in the panel boards have adequate short circuit interrupting capacity. All buses including bus shall be copper or aluminum.
4. 2"x4" Fluorescent fixtures shall be steel frame, lens shall be hinged and locked in place by two locking devices. The lens diffusers shall be KHS, Inc. #KSH-12, Corollite, Inc. #C-12 or Plaskolite, Inc. #PL21A. Minimum lens thickness shall be .125 inch.
5. Fluorescent ballast shall be energy saver while maintaining full light output, class "P" failure for (2) years and be replaced from inside the fixture.
6. Clock - 12" dial clock on clock outlet.
A) Clock shall be General Electric model 2912 129V 60 cycle
B) Clock outlet shall be Bryant #2828 or equal with separable hanging clip & app'd recept.

VOLTS: 120/240 SINGLE PHASE		PANEL: A		FEED: EXTERIOR LB	
MAIN: 100 AMP MAIN BKR.		LOCATION: INTERIOR		MOUNTING: FLUSH	
LOAD		WATTS	BRK.	WATTS	LOAD
LIGHTS, FLUORESCENT	960	15	1	2	250 4476 A/C HVAC UNIT
LIGHTS, FLUORESCENT	960	15	1	4	250 4476
EXTERIOR LIGHT & CLOCK	100	15	1	6	4476
DUPLEX RECEPT.	720	15	1	8	SPACE
DUPLEX RECEPT.	720	15	1	10	SPACE
SPACE				12	
				14	
				16	
PHASE WATTAGE	1880/1680	17	18	4476/4476	PHASE WATTAGE
TOTAL WATTS "A" LEG: 6556				TOTAL WATTS "A+B": 2743	TOTAL WATTS "B" LEG 6156
TOTAL WATTS: 15455	65	AMPS	120/240V	SINGLE PHASE	100AMP BUS.

FEEDERS: TO BE RUN BY THE DISTRICT EITHER UNDERGROUND OR OVERHEAD, SEE SITE ELEC. PLAN.

3 ELECTRICAL DISTRIBUTION PLAN
E1 1/4" = 1'-0"

Professional Engineer Seal: State of California, License No. 2310, Date 8-20-97.

Professional Engineer Seal: State of California, License No. 11018, Date 4/9/97.

IDENTIFICATION STAMP: DIVISION OF THE STATE ARCHITECT, APPL PC 328, DATE 4/9/97.

24 X 40 RELOCATABLE CLASSROOMS



CUSTOMER: _____

DATE: 4-8-97
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY: _____
SERIAL NO. _____

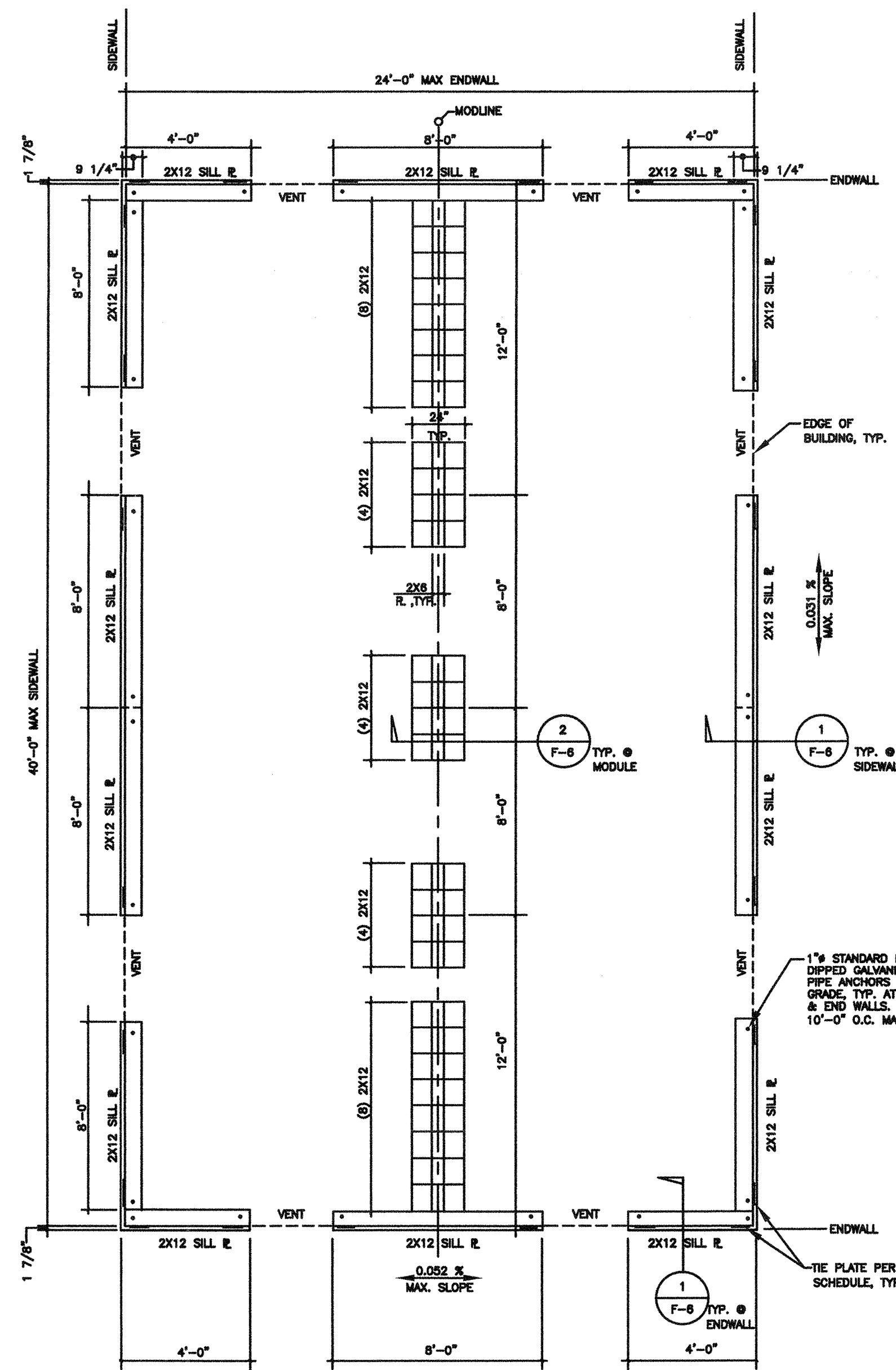
ELECTRICAL PLAN & NOTES

REVISIONS	
NO	DESCRIPTION

PROJECT No. _____

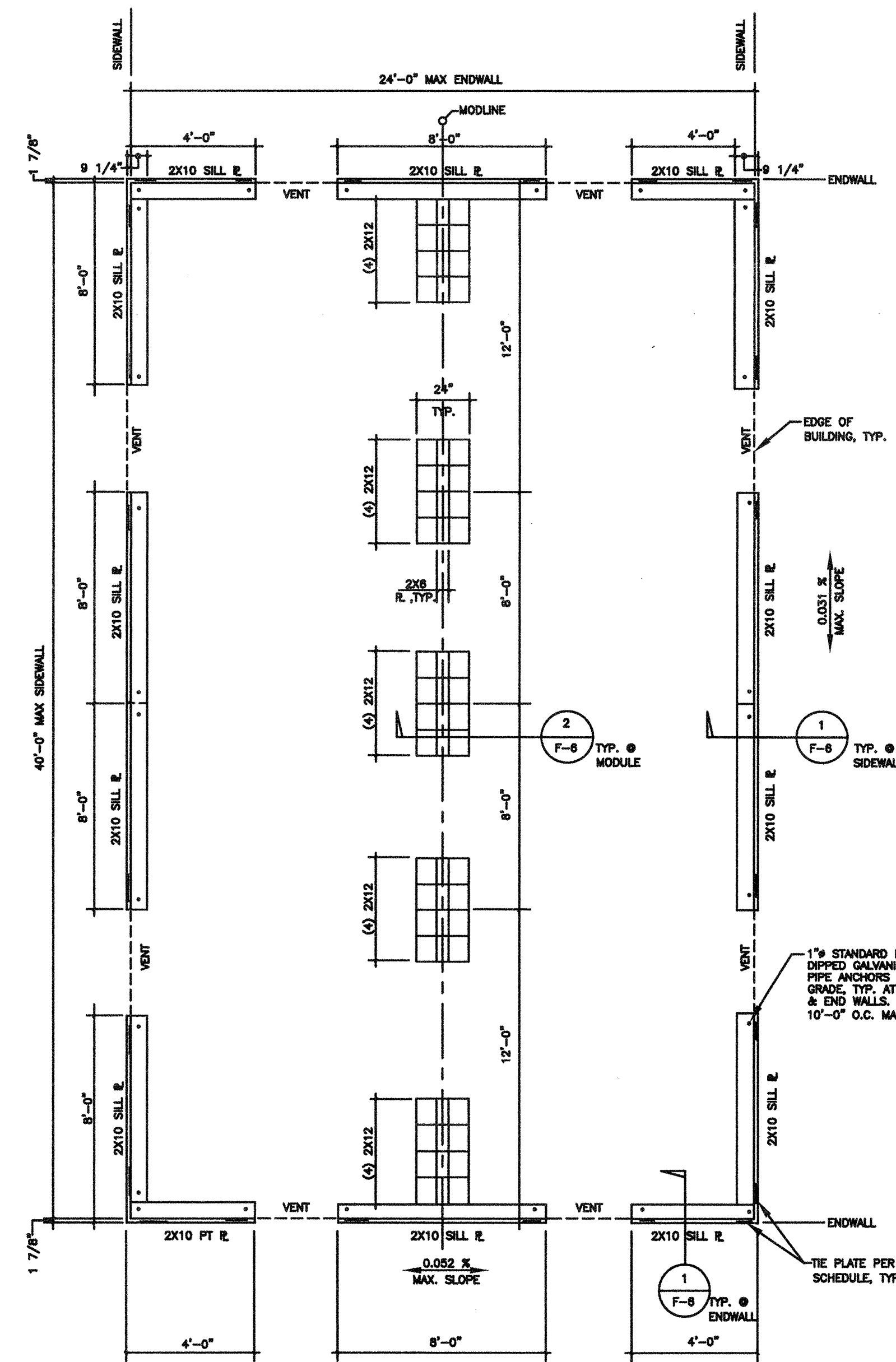
SHEET No. **E 1**

$S_s = 2.183$ (MAPPED VALUE)



FOUNDATION PLAN - 50 PSF FLOOR LIVE LOAD + 20 PSF PARTITIONS

1/4" = 1'-0"



FOUNDATION PLAN - 50 PSF FLOOR LIVE LOAD

1/4" = 1'-0"

NOTES:

- SEE SHEET F-1 FOR GENERAL NOTES.
- SEE SHEET F-7 FOR TYPICAL NOTES.
- UNDER FLOOR VENTILATION: (24'x40' BLDG.)*
REQUIRED VENT. AREA = $24' \times 40' / 150 = 6.4$ SQ. FT.
MIN. VENT. AREA PROVIDED = $0.25' \times (4 \times 4 + 4 \times 3.385) = 7.38$ SQ. FT. (OK)
- UNDER FLOOR VENTILATION: (36'x40' BLDG.)*
REQUIRED VENT. AREA = $36' \times 40' / 150 = 9.6$ SQ. FT.
MIN. VENT. AREA PROVIDED = $0.375' \times (6 \times 4 + 4 \times 3.387) = 14.08$ SQ. FT. (OK)
- UNDER FLOOR VENTILATION: (48'x40' BLDG.)*
REQUIRED VENT. AREA = $48' \times 40' / 150 = 12.8$ SQ. FT.
MIN. VENT. AREA PROVIDED = $0.375' \times (8 \times 4 + 4 \times 3.385) = 17.08$ SQ. FT. (OK)
- PROVIDE 2-2X PLATES OR BLOCKS @ 24'x40' BUILDING (MIN. HEIGHT = 3')
- PROVIDE 3-2X PLATES OR BLOCKS @ 36' & 48'x40' BUILDINGS (MIN. HEIGHT = 4 1/2')
- ALLOWABLE SOIL BEARING = 1000 PSF, PER DSA I.R.16-1.
- ALL NAILS FOR PLATE TO PLATE NAILING SHALL BE 16d GALV. BOX. ALL FOUNDATION NAILS SHALL BE HOT DIPPED GALVANIZED WITH A MIN. OF 1 OZ. OF ZINC PER SQ. FT.
- UNDER FLOOR DRAINAGE SHALL BE PROVIDED TO PREVENT WATER FROM PONDING BENEATH THE STRUCTURE. UNDER FLOOR DRAINAGE SHALL BE NOTED AND DETAILED ON THE PROJECT SPECIFIC SITE PLANS.
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- NOTE: UNDER FLOOR VENTILATION CALCULATION BASED ON 3" OR 4 1/2" HIGH VENTS. CALCULATIONS CAN VARY BASED ON ACTUAL SITE GRADE ELEVATIONS AND VENT HEIGHTS. MIN. VENT HEIGHT = 1 1/2" AND MAX. VENT HEIGHT = 18 1/2". PROVIDE NOTED REQUIRED VENT. AREA FOR EACH SIZE BUILDING.

TIE PLATE SCHEDULE: (1)(2)(3)

BUILDING SIZE	NUMBER OF TIE R'S PER ENDWALL	NUMBER OF TIE R'S PER SIDEWALL
24'x40'	6	6
36'x40'	8	8
48'x40'	13	12

- SEE DETAIL 7/F-6 FOR TYPICAL TIE R.
- USE TIE R'S FOR ALL MODULAR BUILDING MANUFACTURERS EXCEPT AMERICAN MODULAR SYSTEMS, INC.
- SEE DETAIL 8/F-6 FOR THE PLATE APPLICABLE TO AMERICAN MODULAR SYSTEMS, INC.

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APPROVALS

DATE: JUN. 15, 2017

PRE-CHECK (PC) DOCUMENT CODE: 2016 CSC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-116149
AC: PLS DE: SS DS: PLS
DATE: SEP 19 2017

REVISIONS	BY

MEMBER
STRUCTURAL ENGINEERS, INC.
AMERICAN CONCRETE INSTITUTE
1000 915-3024
FLOOR 915-3028

STRUCTURAL ENGINEERS, INC.
4201 MADRIDE DRIVE, SUITE 114
CERRITOS, CALIFORNIA 94710

FOUNDATION PLANS
PC 04-116149
MOBILE MODULAR
11450 MISSION BLVD.
MIRA LOMA, CA 91752

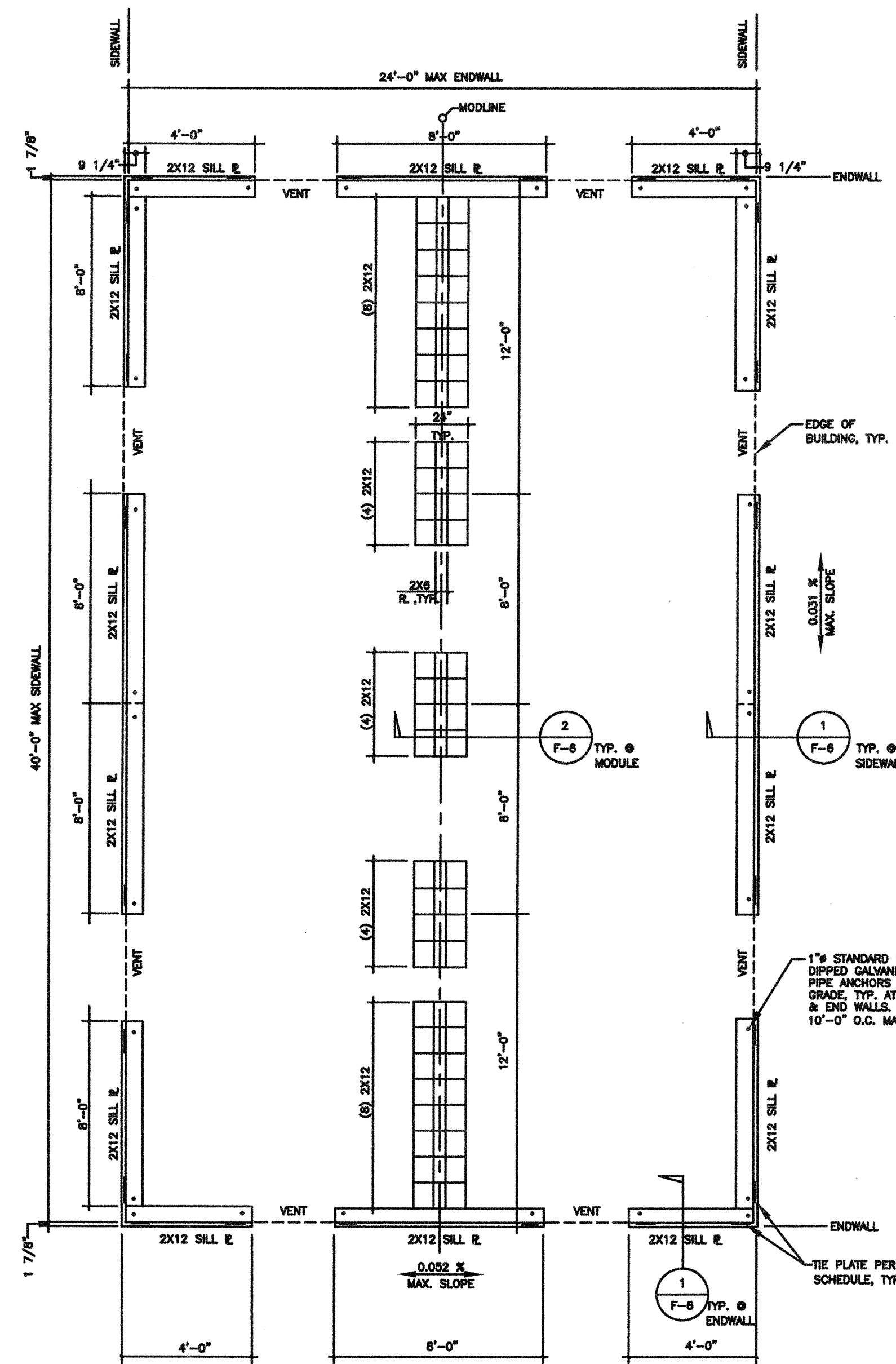
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DIVISION OF THE STATE ARCHITECT
APPL 01-117316
ACB: PLS DE: SS DS: PLS
DATE: 11018

SITE:

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CHECKED
DATE: JUN. 15, 2017
SCALE
JOB NO.
F - 3
OF 12 SHEETS

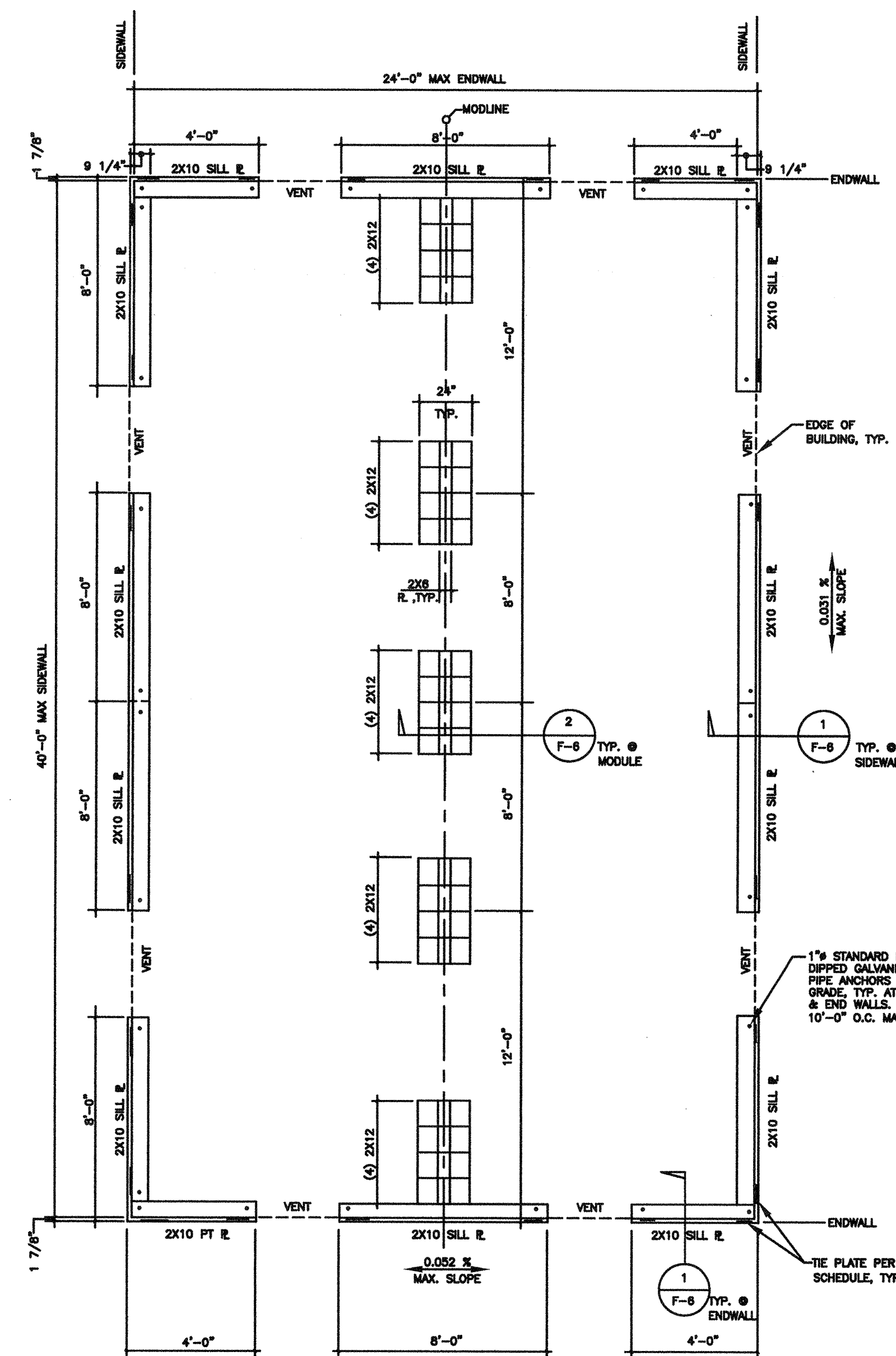
MOBILE MODULAR MAN. CORP. 11145 MISSION BLVD. CERRITOS, CA 94710

$S_g = 3.08$ (MAPPED VALUE)



FOUNDATION PLAN - 50 PSF FLOOR LIVE LOAD + 20 PSF PARTITIONS

1/4" = 1'-0"



FOUNDATION PLAN - 50 PSF FLOOR LIVE LOAD

1/4" = 1'-0"

NOTES:

- SEE SHEET F-1 FOR GENERAL NOTES.
- SEE SHEET F-7 FOR TYPICAL NOTES.
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MIN. VENT. AREA PROVIDED = $0.375' \times (6 \times 4 + 4 \times 3.387) = 14.08$ SQ. FT. (OK)
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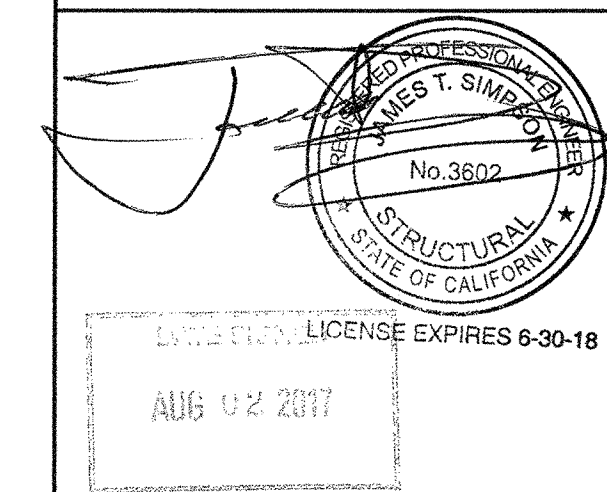
TIE PLATE SCHEDULE: (1)(2)(3)

BUILDING SIZE	NUMBER OF TIE PLATES PER ENDWALL	NUMBER OF TIE PLATES PER SIDEWALL
24'x40'	6	6
36'x40'	8	8
48'x40'	13	12

- SEE DETAIL 7/F-6 FOR TYPICAL TIE PLATE.
- USE TIE PLATES FOR ALL MODULAR BUILDING MANUFACTURERS EXCEPT AMERICAN MODULAR SYSTEMS, INC.
- SEE DETAIL 8/F-6 FOR TIE PLATE APPLICABLE TO AMERICAN MODULAR SYSTEMS, INC.

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APPROVALS



REVISIONS	BY

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INSTITUTE
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FAX (909) 812-0258

STRUCTURAL ENGINEERS, INC.
4281 WINDSOR AVENUE, SUITE 114
CANA, CALIFORNIA 95710

FOUNDATION PLANS
PC 04-116149

MOBILE MODULAR
11450 MISSION BLVD.
MIRA LOMA, CA 91752

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
ACS - FLB - SS - DM
DATE 1/10/18

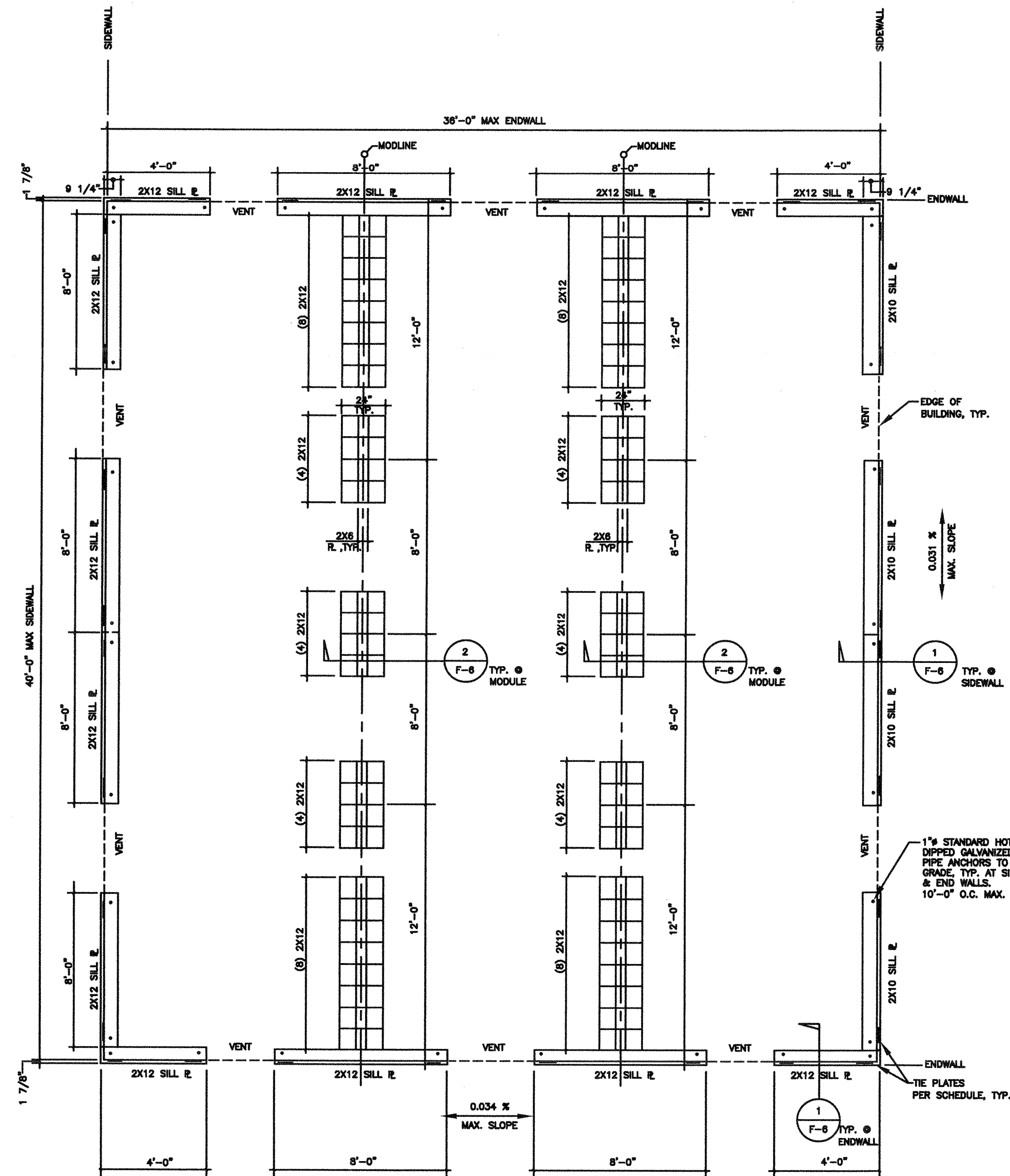
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DATE	JUN. 15, 2017
SCALE	
JOB NO.	
	F-3A
OF 12 SHEETS	

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CSC
A SEPARATE PROJECT APPLICATION FOR
CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-116149
AC - FLB - SS - DM
DATE: SEP 19 2017

S_s = 2.183 (MAPPED VALUE)

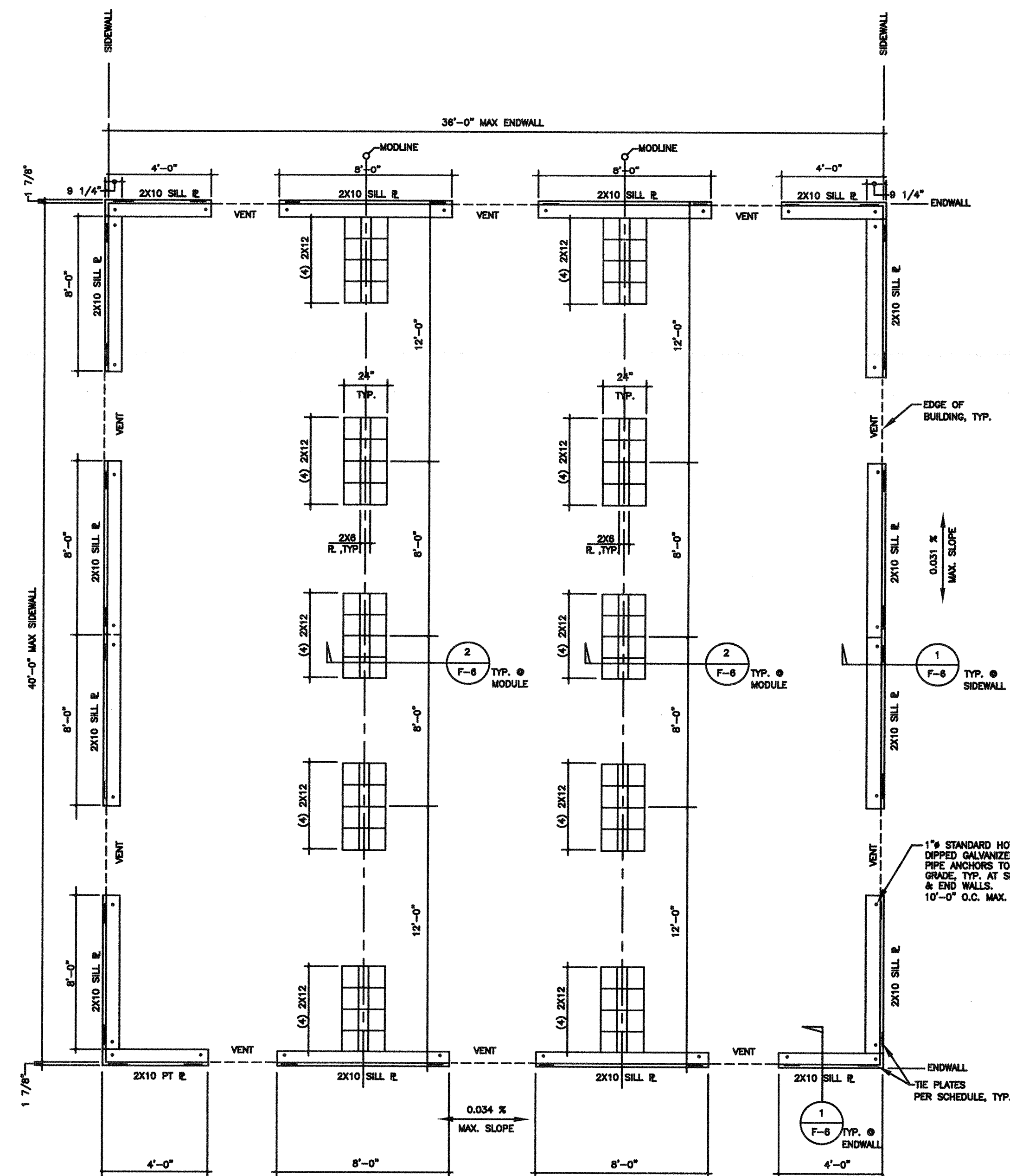


FOUNDATION PLAN - 50 PSF FLOOR LIVE LOAD + 20 PSF PARTITIONS

1/4" = 1'-0"

NOTES:

- SEE SHEET F-1 FOR GENERAL NOTES.
- SEE SHEET F-7 FOR TYPICAL NOTES.
- UNDER FLOOR VENTILATION: (24'x40' BLDG.)
REQUIRED VENT. AREA = 24' X 40'/150 = 6.4 SQ. FT.
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- UNDER FLOOR VENTILATION: (36'x40' BLDG.)
REQUIRED VENT. AREA = 36'x40'/150 = 9.6 SQ. FT.
MIN. VENT. AREA PROVIDED = 0.375' X (6X4 + 4X3.387) = 14.08 SQ. FT. (OK)
- UNDER FLOOR VENTILATION: (48'x40' BLDG.)
REQUIRED VENT. AREA = 48'x40'/150 = 12.8 SQ. FT.
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- ALLOWABLE SOIL BEARING = 1000 PSF, PER DSA LR.16-1.
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- NOTE: UNDER FLOOR VENTILATION CALCULATION BASED ON 3" OR 4 1/2" HIGH VENTS. CALCULATIONS CAN VARY BASED ON ACTUAL SITE GRADE ELEVATIONS AND VENT HEIGHTS. MIN. VENT HEIGHT = 1 1/2" AND MAX. VENT HEIGHT = 16 1/2". PROVIDE NOTED REQUIRED VENT. AREA FOR EACH SIZE BUILDING.



FOUNDATION PLAN - 50 PSF FLOOR LIVE LOAD

1/4" = 1'-0"

TIE PLATE SCHEDULE: (1)(2)(3)

BUILDING SIZE	NUMBER OF TIE R'S PER ENDWALL	NUMBER OF TIE R'S PER SIDEWALL
24'x40'	6	6
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- SEE DETAIL 7/F-6 FOR TYPICAL TIE R.
- USE TIE R'S FOR ALL MODULAR BUILDING MANUFACTURERS EXCEPT AMERICAN MODULAR SYSTEMS, INC.
- SEE DETAIL 8/F-6 FOR THE PLATE APPLICABLE TO AMERICAN MODULAR SYSTEMS, INC.

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APPROVALS

DATE: AUG 12 2017

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

PC 04-116149
AC: [Signature]
DATE: SEP 13 2017

REVISIONS	BY

MEMBER
STRUCTURAL ENGINEERS
ASSOCIATION OF CALIFORNIA
AMERICAN CONCRETE
INSTITUTE

STRUCTURAL ENGINEERS, INC.
655 MARSHALL AVE. SUITE 114
MIRAMONTE, CALIFORNIA 91752
(909) 612-0241
FAX (909) 612-0228

FOUNDATION PLANS
PC 04-116149
MOBILE MODULAR
11450 MISSION BLVD.
MIRA LOMA, CA 91752

SITE:

DRAWN

CHECKED

DATE: JUN. 15, 2017

SCALE

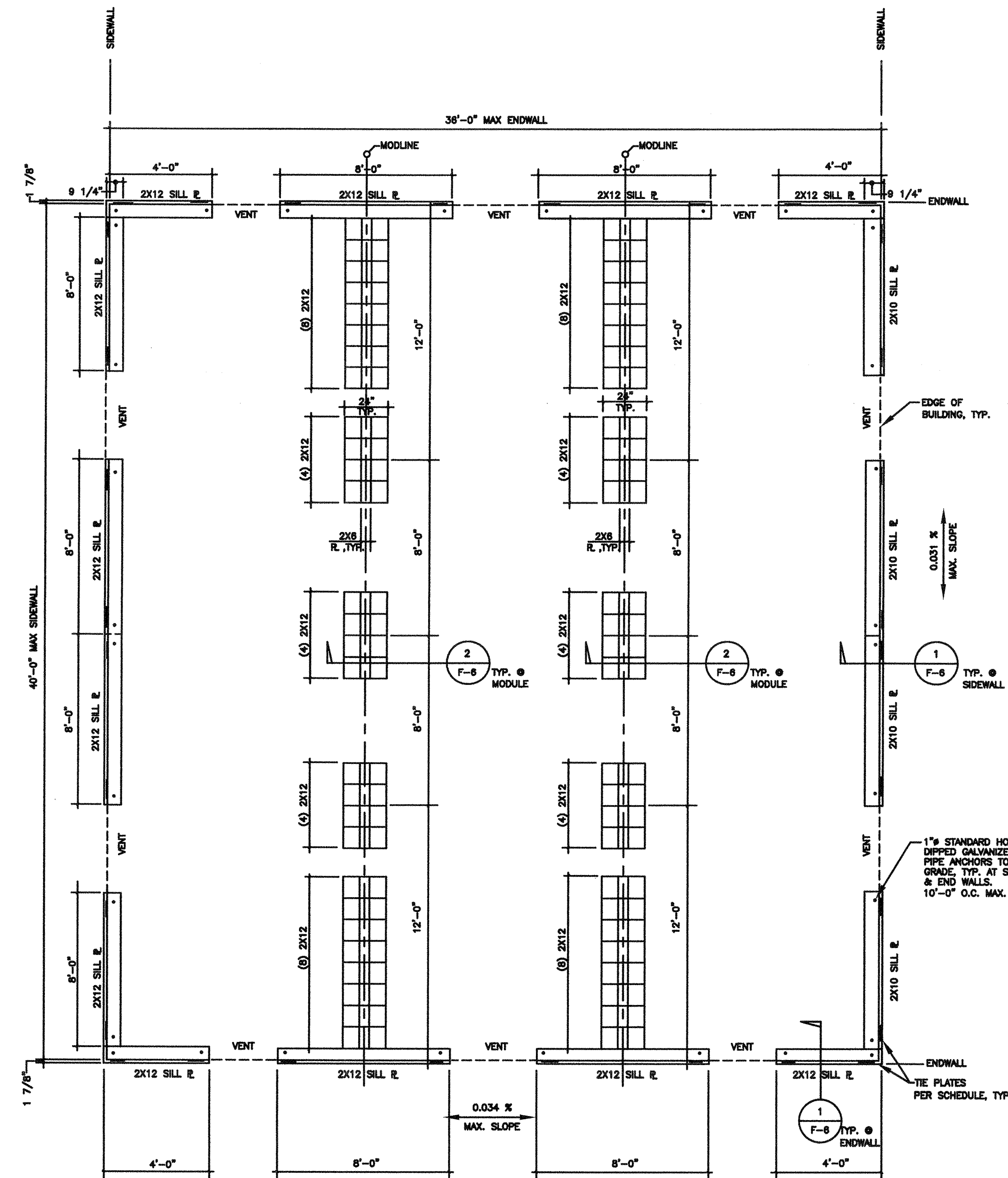
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F - 4

OF 12 SHEETS

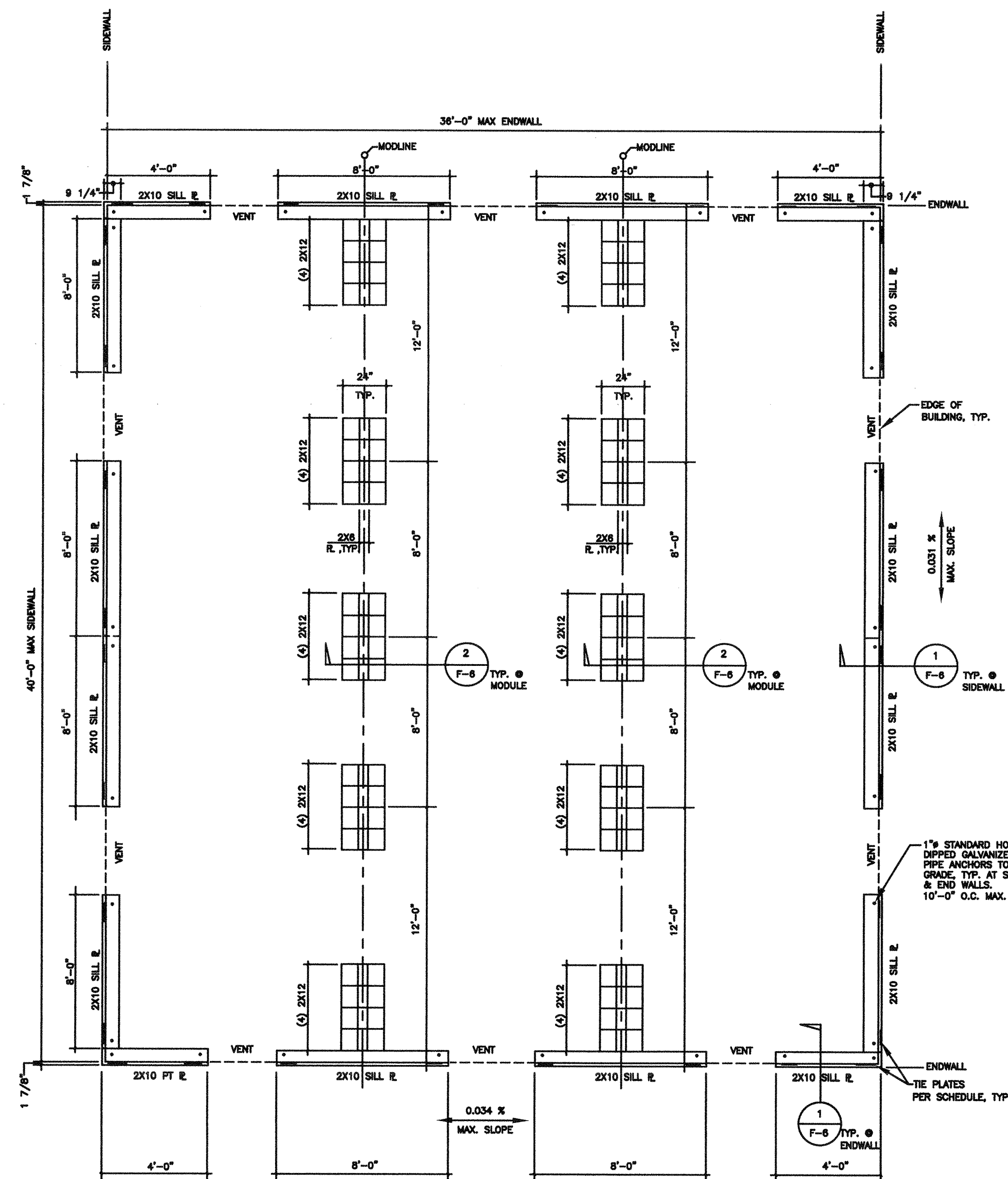
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APPL 01-117316
DATE: 11/01/18

$S_s = 3.08$ (MAPPED VALUE)



FOUNDATION PLAN - 50 PSF FLOOR LIVE LOAD + 20 PSF PARTITIONS

1/4" = 1'-0"



FOUNDATION PLAN - 50 PSF FLOOR LIVE LOAD

1/4" = 1'-0"

NOTES:

- SEE SHEET F-1 FOR GENERAL NOTES.
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- UNDER FLOOR VENTILATION: (Ø24"X40' BLDG.)
REQUIRED VENT. AREA = 24' X 40'/150 = 6.4 SQ. FT.
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- UNDER FLOOR VENTILATION: (Ø48"X40' BLDG.)
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- PROVIDE 2-2X PLATES OR BLOCKS Ø 24"X40' BUILDING (MIN. HEIGHT = 3")
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- ALLOWABLE SOIL BEARING = 1000 PSF, PER DSA I.R.16-1.
- ALL NAILS FOR PLATE TO PLATE NAILING SHALL BE 16d GALV. BOX.
ALL NAILS FOR PLYWOOD SKIRTING SHALL BE 8d GALV. BOX.
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TIE PLATE SCHEDULE: (1)(2)(3)

BUILDING SIZE	NUMBER OF TIE R'S PER ENDWALL	NUMBER OF TIE R'S PER SIDEWALL
24'X40'	6	6
36'X40'	8	8
48'X40'	13	12

- SEE DETAIL 7/F-6 FOR TYPICAL TIE R.
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- SEE DETAIL 8/F-6 FOR TIE PLATE APPLICABLE TO AMERICAN MODULAR SYSTEMS, INC.

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APPROVALS

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CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR
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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-116149
AC: [Signature] FLS: [Signature] SS: [Signature]
DATE: SEP 19 2017

REVISIONS	BY

STRUCTURAL ENGINEERS, INC.
4201 WATSON DRIVE, SUITE 114
MIRA LOMA, CA 91752
PHONE 916-454-1100
FACSIMILE 916-454-1108

FOUNDATION PLANS
PC 04-116149
MOBILE MODULAR
11450 MISSION BLVD.
MIRA LOMA, CA 91752

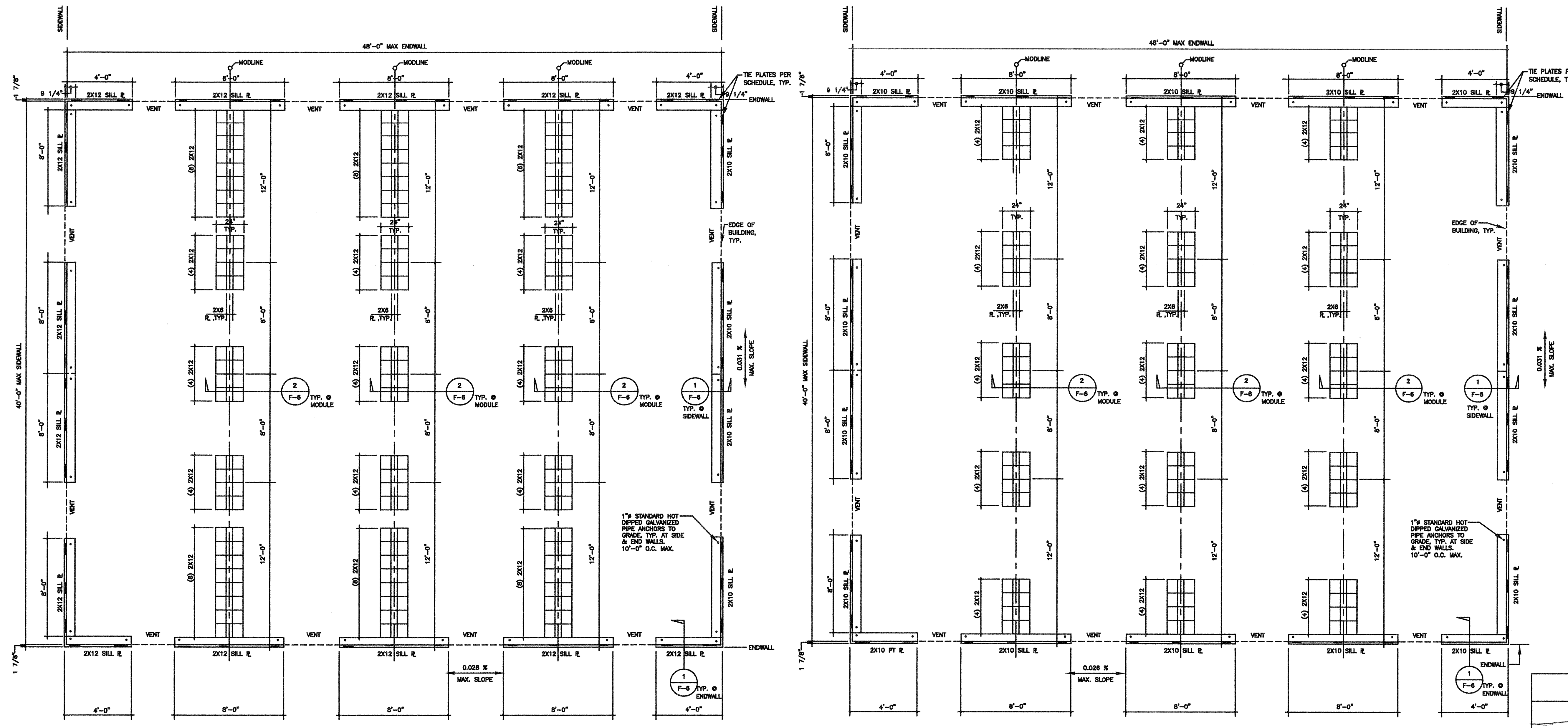
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JUN. 15, 2017
SCALE
JOB NO.
F-4A
OF 12 SHEETS

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
ACS: [Signature] FLS: [Signature] SS: [Signature]
DATE: 11/01/18

MOBILE MODULAR MANAGEMENT PC 115163 SHEET F-4A

$S_s = 2.183$ (MAPPED VALUE)



FOUNDATION PLAN - 50 PSF FLOOR LIVE LOAD + 20 PSF PARTITIONS

FOUNDATION PLAN - 50 PSF FLOOR LIVE LOAD

NOTES:

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APPROVALS

AUG 12 2017

REVISIONS	BY

NUMBER: 114
 DIVISION: STRUCTURAL ENGINEERING
 AMERICAN MODULAR SYSTEMS, INC.
 11450 MISSION BLVD.
 MIRA LOMA, CA 91752
 (909) 914-5004
 FAX: (909) 914-5008

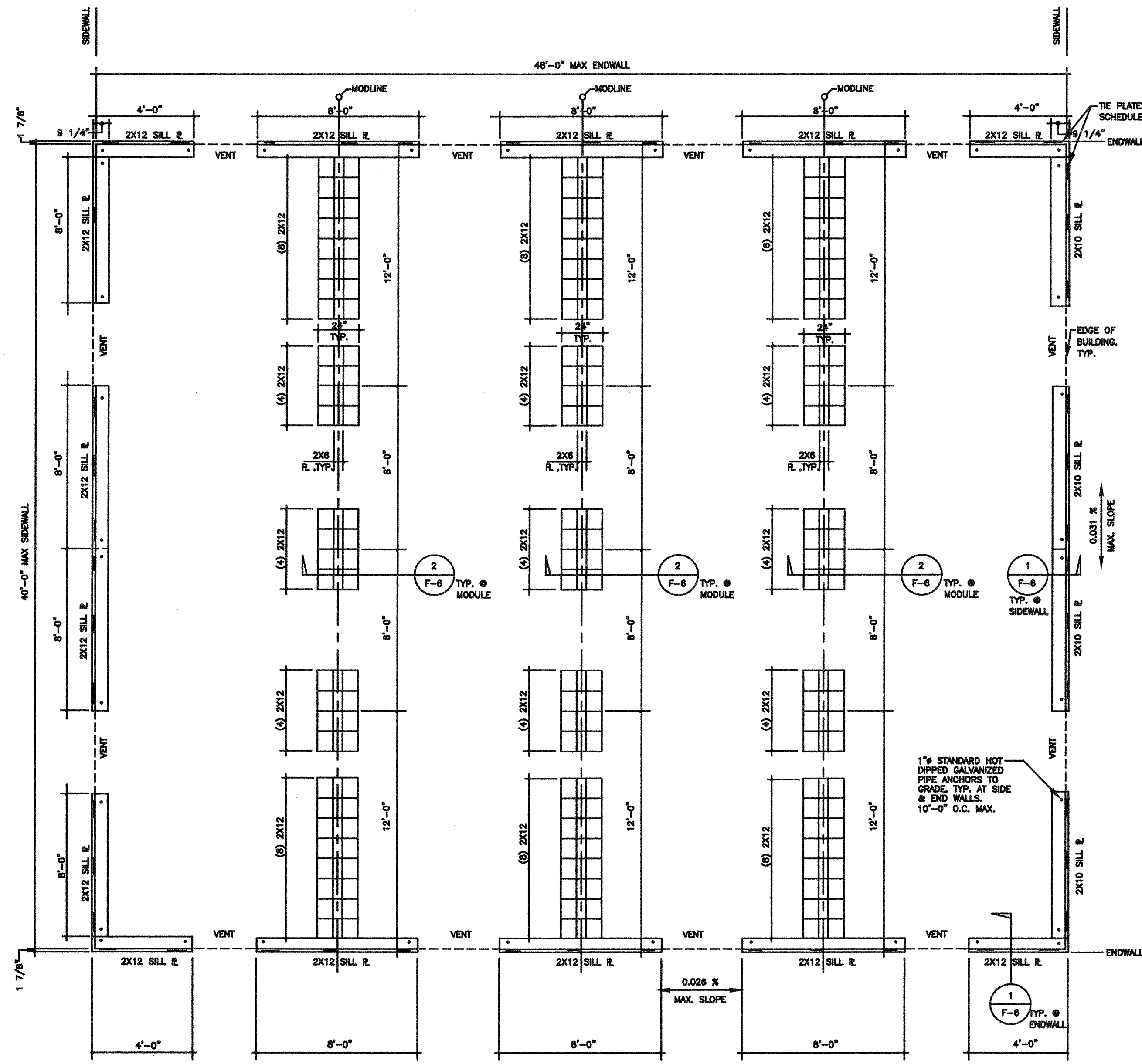
FOUNDATION PLANS
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 MOBILE MODULAR
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 MIRA LOMA, CA 91752

SITE:

DRAWN
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 SCALE
 JOB NO.
 F-5
 OF 12 SHEETS

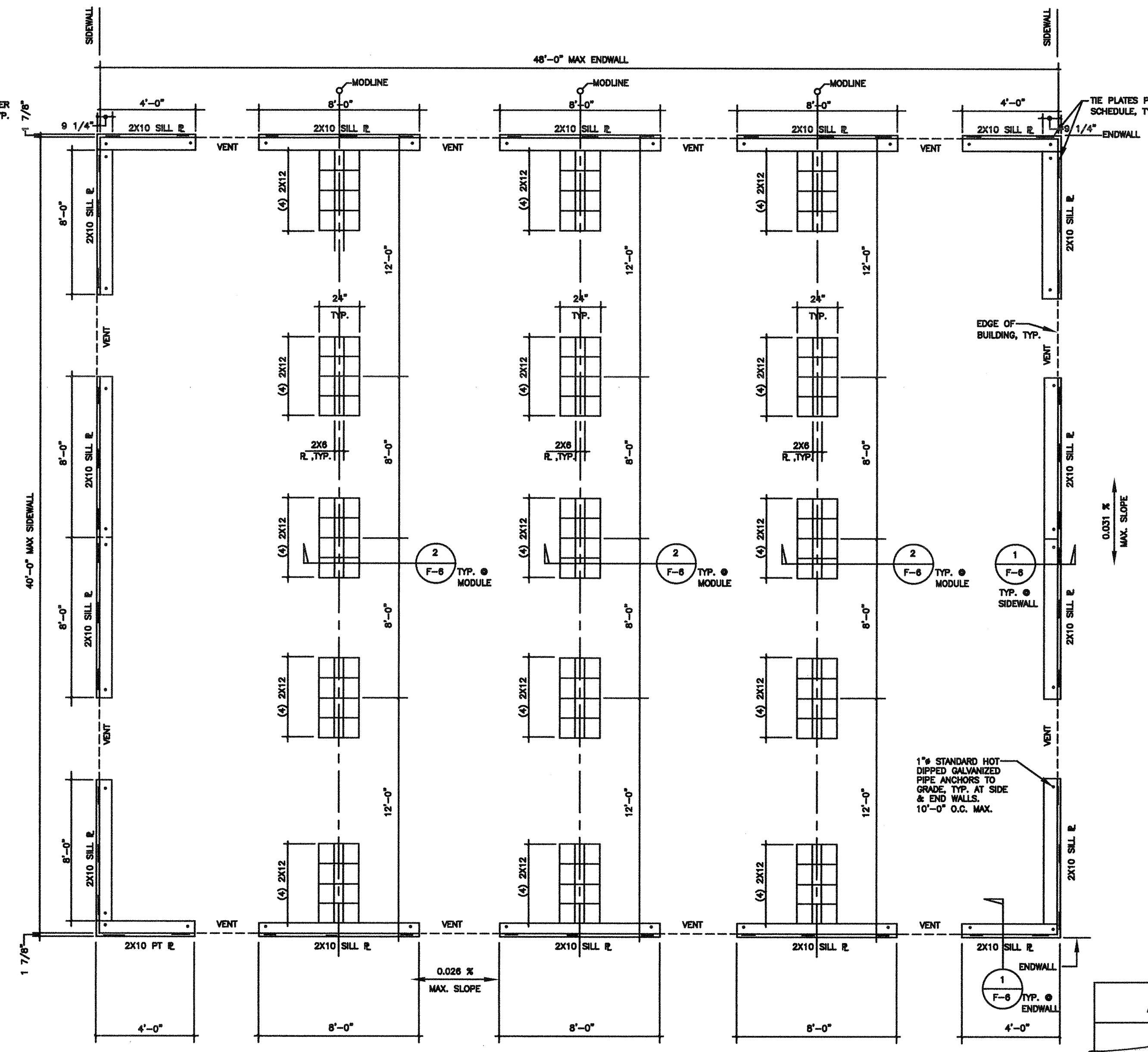
IDENTIFICATION STAMP
 APPL 01-117316
 DATE: 11/10/18

$S_s = 3.08$ (MAPPED VALUE)



FOUNDATION PLAN - 50 PSF FLOOR LIVE LOAD + 20 PSF PARTITIONS

1/4" = 1'-0"



FOUNDATION PLAN - 50 PSF FLOOR LIVE LOAD

1/4" = 1'-0"

NOTES:

- SEE SHEET F-1 FOR GENERAL NOTES.
- SEE SHEET F-7 FOR TYPICAL NOTES.
- UNDER FLOOR VENTILATION: (24'X40' BLDG.)*
REQUIRED VENT. AREA = 24' X 40'/150 = 6.4 SQ. FT.
MIN. VENT. AREA PROVIDED = 0.25' X (4X4 + 4X 3.385) = 7.38 SQ. FT. (OK)
- UNDER FLOOR VENTILATION: (36'X40' BLDG.)*
REQUIRED VENT. AREA = 36'X40'/150 = 9.6 SQ. FT.
MIN. VENT. AREA PROVIDED = 0.375' X (6X4 + 4X3.387) = 14.08 SQ. FT. (OK)
- UNDER FLOOR VENTILATION: (48'X40' BLDG.)*
REQUIRED VENT. AREA = 48'X40'/150 = 12.8 SQ. FT.
MIN. VENT. AREA PROVIDED = 0.375' X (8X4 + 4X3.385) = 17.08 SQ. FT. (OK)
- PROVIDE 2-2X PLATES OR BLOCKS @ 24"X40" BUILDING (MIN. HEIGHT = 3") PROVIDE 3-2X PLATES OR BLOCKS @ 36" X 48"X40" BUILDINGS (MIN. HEIGHT = 4 1/2")
- ALLOWABLE SOIL BEARING = 1000 PSF, PER DSA I.R.16-1.
- ALL NAILS FOR PLATE TO PLATE NAILING SHALL BE 16d GALV. BOX. ALL NAILS FOR PLYWOOD SKIRTING SHALL BE 8d GALV. BOX. ALL FOUNDATION NAILS SHALL BE HOT DIPPED GALVANIZED WITH A MIN. OF 1 OZ. OF ZINC PER SQ. FT.
- UNDER FLOOR DRAINAGE SHALL BE PROVIDED TO PREVENT WATER FROM PONDING BENEATH THE STRUCTURE. UNDER FLOOR DRAINAGE SHALL BE NOTED AND DETAILED ON THE PROJECT SPECIFIC SITE PLANS.
- HEIGHT OF BUILT UP PLATES WITH SILL PLATE IS NOT TO EXCEED 18" MAX.
- ALL 2X PLATES AT EXTERIOR FOUNDATIONS AND 2X6 PLATES AT MODULINES TO BE 4' OR 8' LONG WITH NO SPLICES. IF SHORTER PIECES OF 2X PLATES ARE TO BE USED, SPLICE PLATES PER DETAIL 9/F-6.
- NOTE: UNDER FLOOR VENTILATION CALCULATION BASED ON 3" OR 4 1/2" HIGH VENTS. CALCULATIONS CAN VARY BASED ON ACTUAL SITE GRADE ELEVATIONS AND VENT HEIGHTS. MIN. VENT HEIGHT = 1 1/2" AND MAX. VENT HEIGHT = 16 1/2". PROVIDE NOTED REQUIRED VENT. AREA FOR EACH SIZE BUILDING.

TIE PLATE SCHEDULE: (1)(2)(3)

BUILDING SIZE	NUMBER OF TIE E'S PER ENDWALL	NUMBER OF TIE E'S PER SIDEWALL
24'X40'	6	6
36'X40'	8	8
48'X40'	13	12

- SEE DETAIL 7/F-6 FOR TYPICAL TIE E.
- USE THE E'S FOR ALL MODULAR BUILDING MANUFACTURERS EXCEPT AMERICAN MODULAR SYSTEMS, INC.
- SEE DETAIL 8/F-6 FOR TIE PLATE APPLICABLE TO AMERICAN MODULAR SYSTEMS, INC.

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APPROVALS

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 04-116149
AC D, FLS D, SS 2, 2
DATE: SEP 19 2017

REVISIONS	BY

MEMBER
STRUCTURAL ENGINEERS, INC.
AMERICAN SOCIETY OF CIVIL ENGINEERS
AMERICAN INSTITUTE OF STEEL CONSTRUCTION
11450 MISSION BLVD., SUITE 114
MIRA LOMA, CA 91752
(909) 941-5004
FAX (909) 941-5005

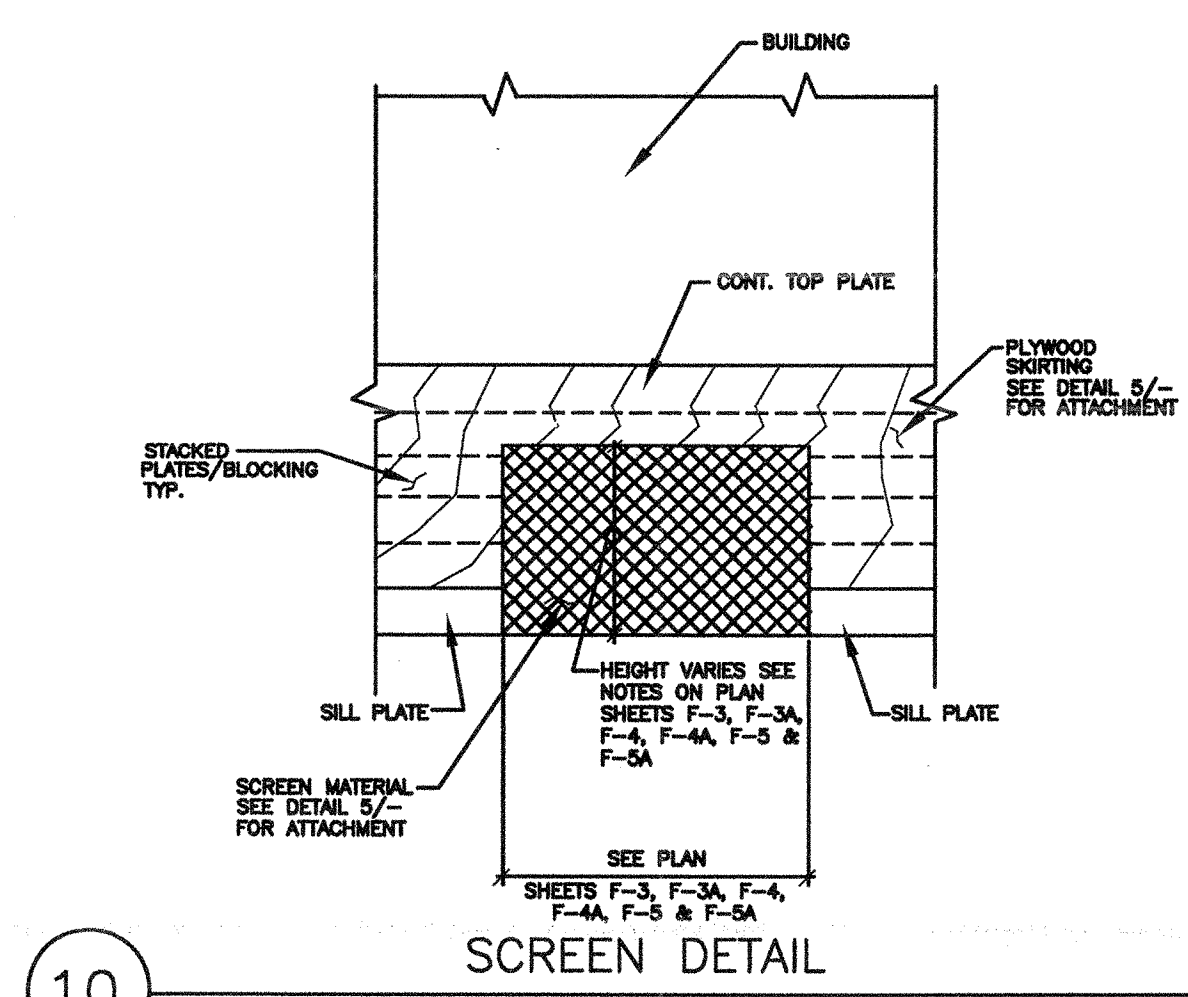
FOUNDATION PLANS
PC 04-116149
MOBILE MODULAR
11450 MISSION BLVD.
MIRA LOMA, CA 91752

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01-117316
ACS FLS SS D.M.
DATE: 11/01/18

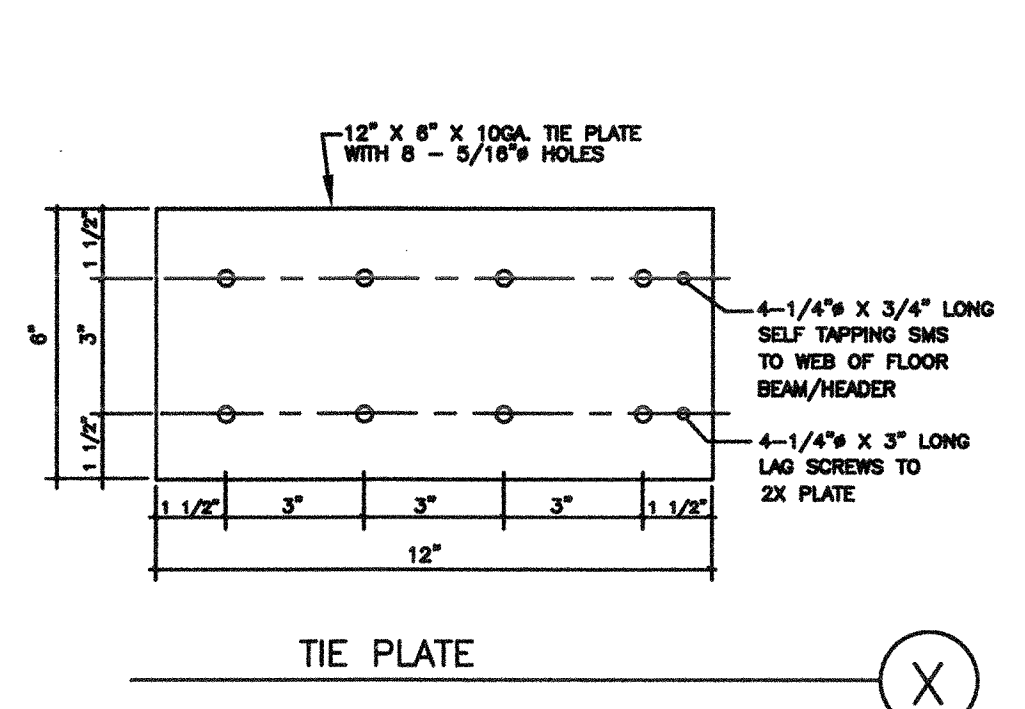
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CHECKED
DATE
JUN. 15, 2017
SCALE
JOB NO.
F-5A
OF 12 SHEETS

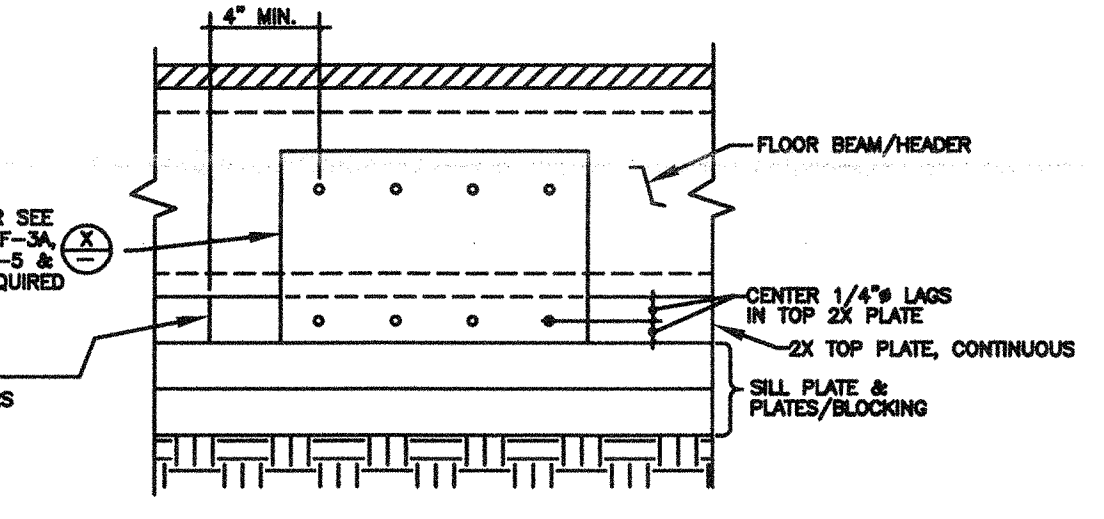
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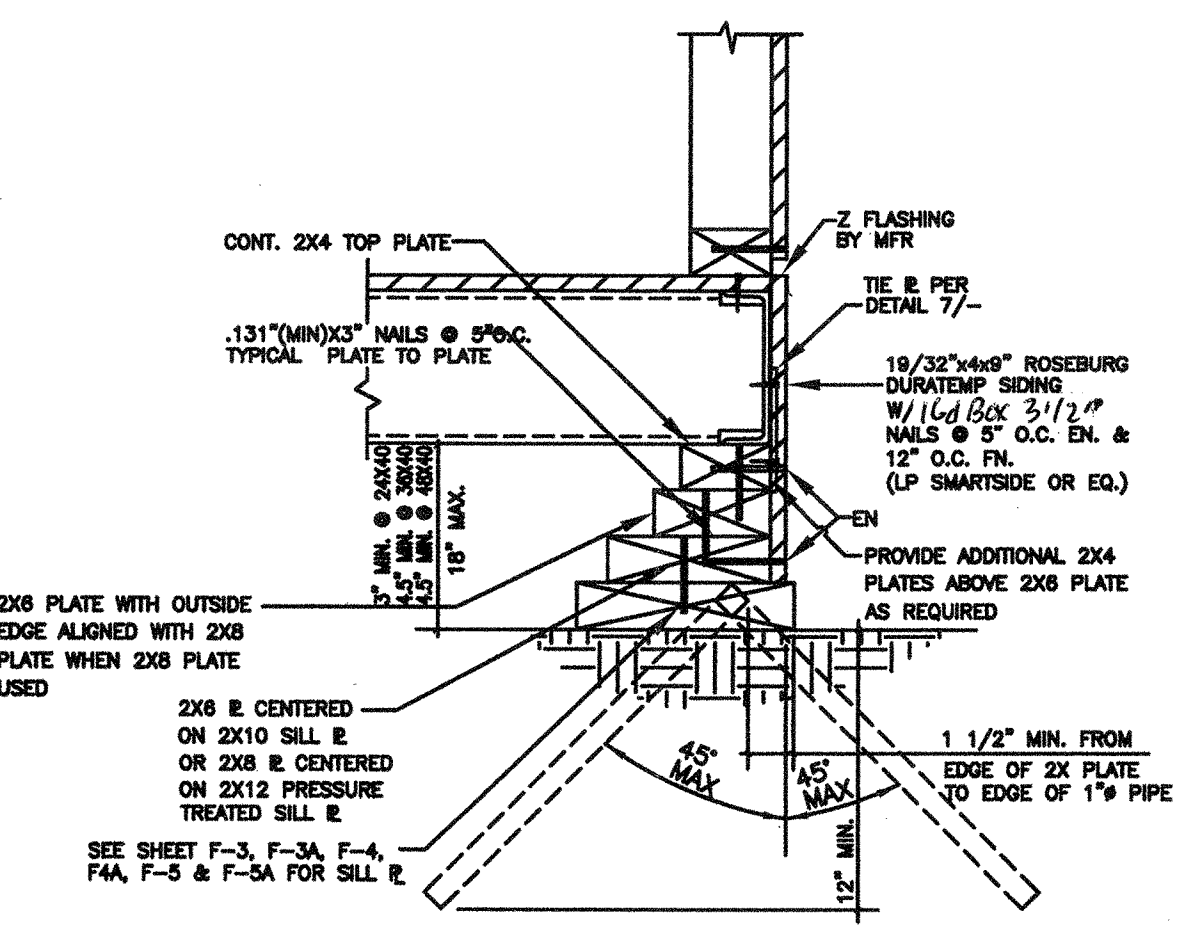
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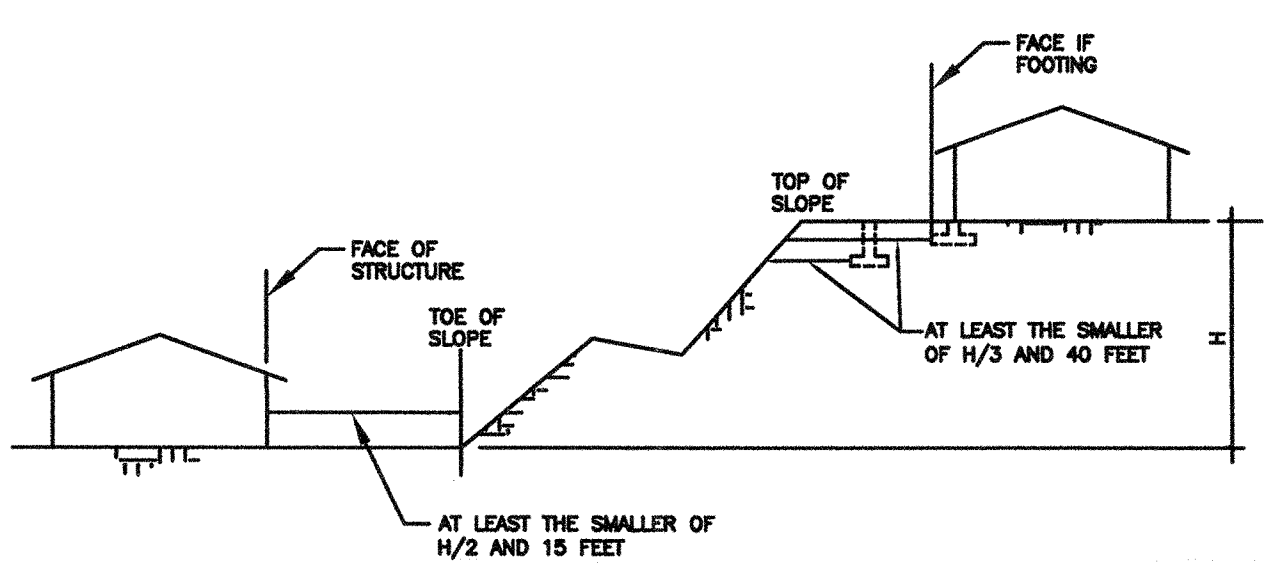


7 TYPICAL FOUNDATION TIE PLATES

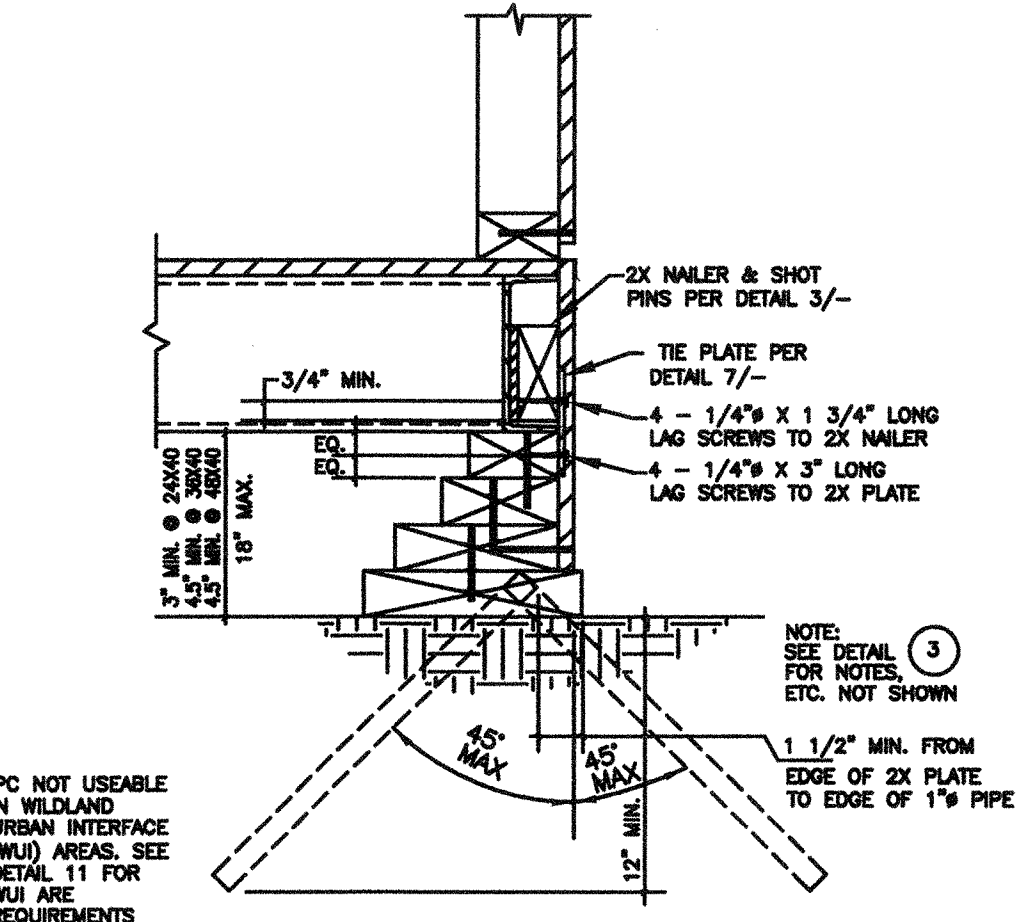


11 END WALL & SIDEWALL SILL R'S @ WILDLAND URBAN INTERFACE (WUI) 1 1/2" = 1'-0"

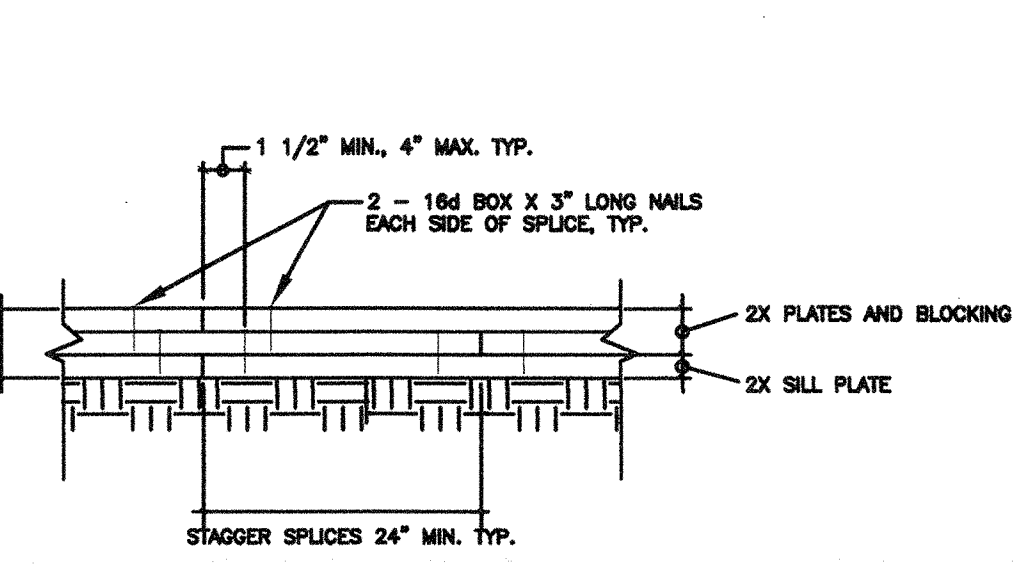
NOTES:
 1. EXTERIOR SKIRTING VENTS
 - PROTECTED BY CORROSION-RESISTANT, NONCOMBUSTIBLE WIRE MESH WITH OPENING 1/16" TO 1/8"
 - MEETS CBC CHAPTER 7A-705A.2 REQUIREMENTS VENTS - REQUIREMENTS #1 & #2
 - CAL-FIRE LISTING NUMBER #1160-2162(1100) #165-2214(5100) #165-2252(2050) OR EQUIVALENT
 2. EXTERIOR SKIRTING (FLOOR LINE TO GRADE)
 - 19/32" x 1/4" ROSEBURG DURATEMP SLIDING (UN-GROOVED OR GROOVED @ 8" O.C.)
 - MEETS AIA 303 SPECIFICATIONS FOR PLYWOOD SLIDING
 - COMPLIES WITH SFM 12-7A-7
 - CAL-FIRE LISTING NUMBER #140-2021(004)
 - MEETS CBC CHAPTER 7A-707A.3.1 "EXTENT OF EXTERIOR WALL COVERING"
 - MATERIAL USED SAME AS EXTERIOR SIDING TO MEET WUI REQUIREMENTS
 - VERTICAL USED SAME AS EXTERIOR SIDING TO MEET WUI REQUIREMENTS



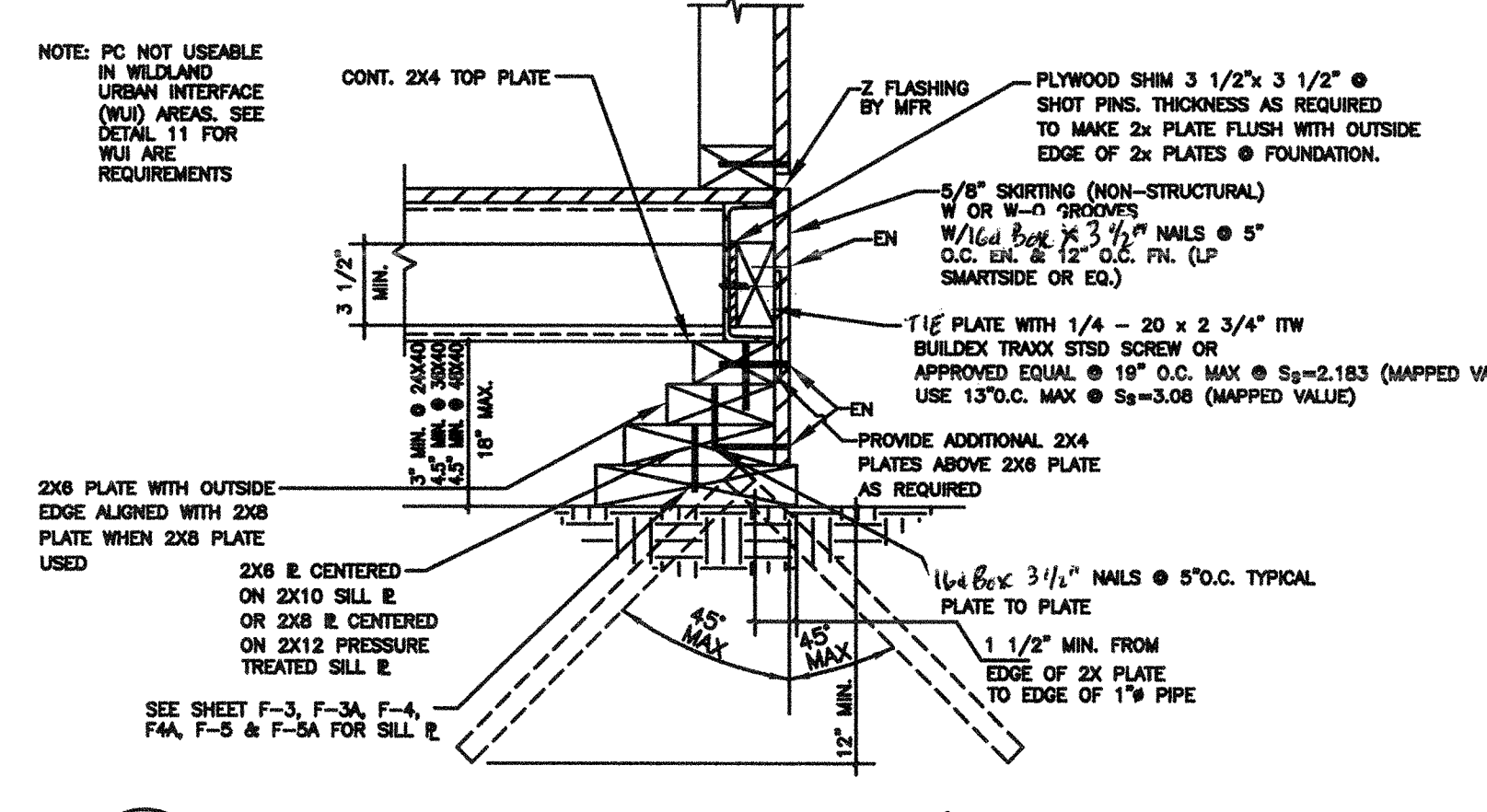
12 FOUNDATION CLEARANCES FROM SLOPES 2016 CBC 1808A.7



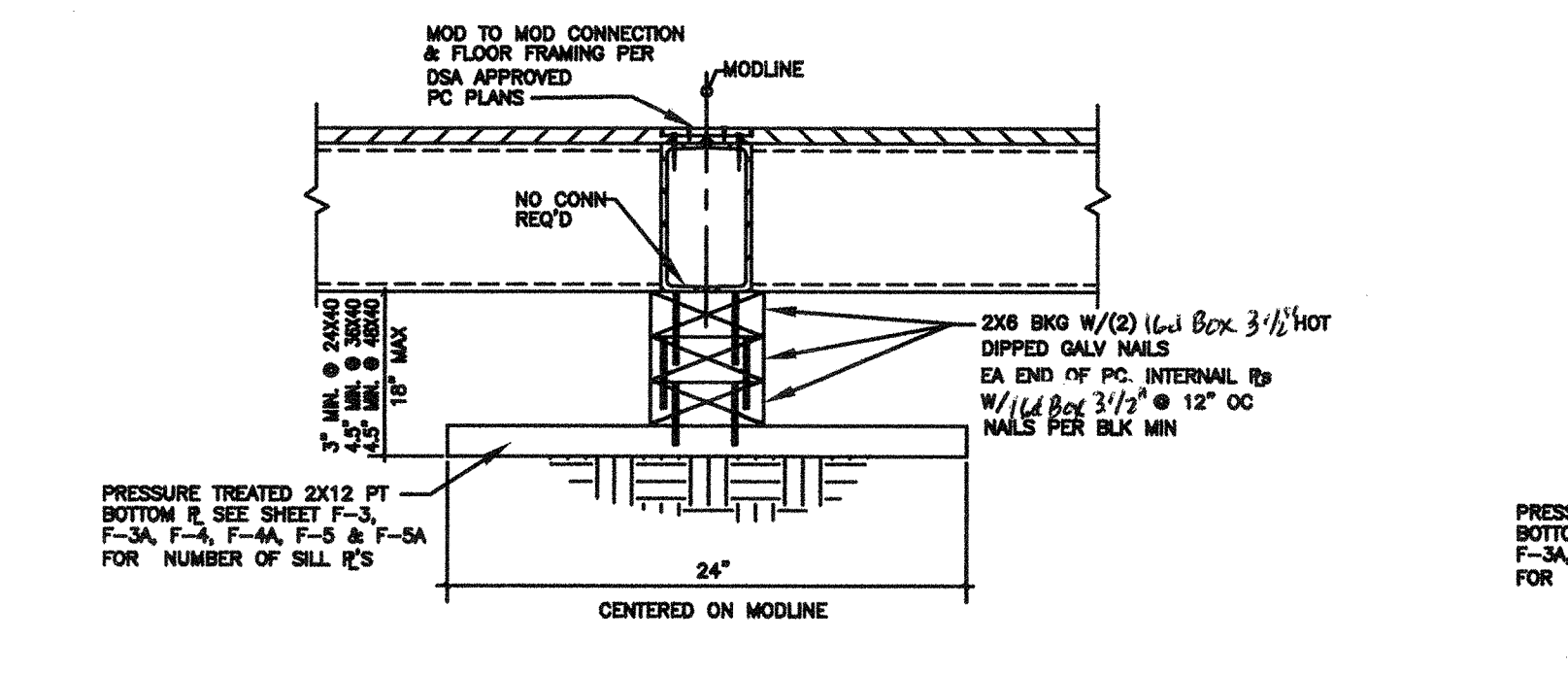
8 END WALL & SIDEWALL SILL R'S @ AMERICAN MODULAR SYSTEMS BUILDINGS 1 1/2" = 1'-0"



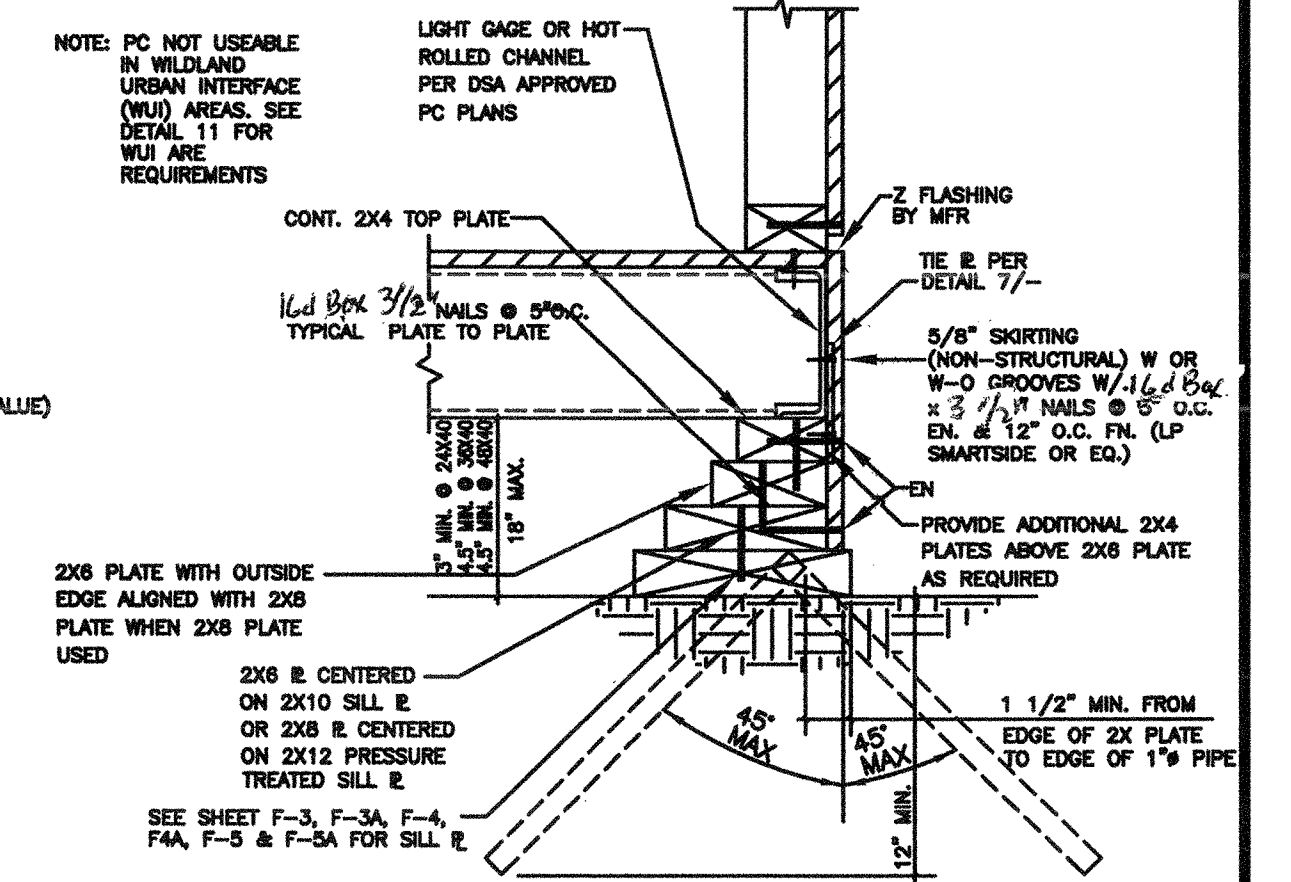
9 TYPICAL 2X PLATE SPICE NTS



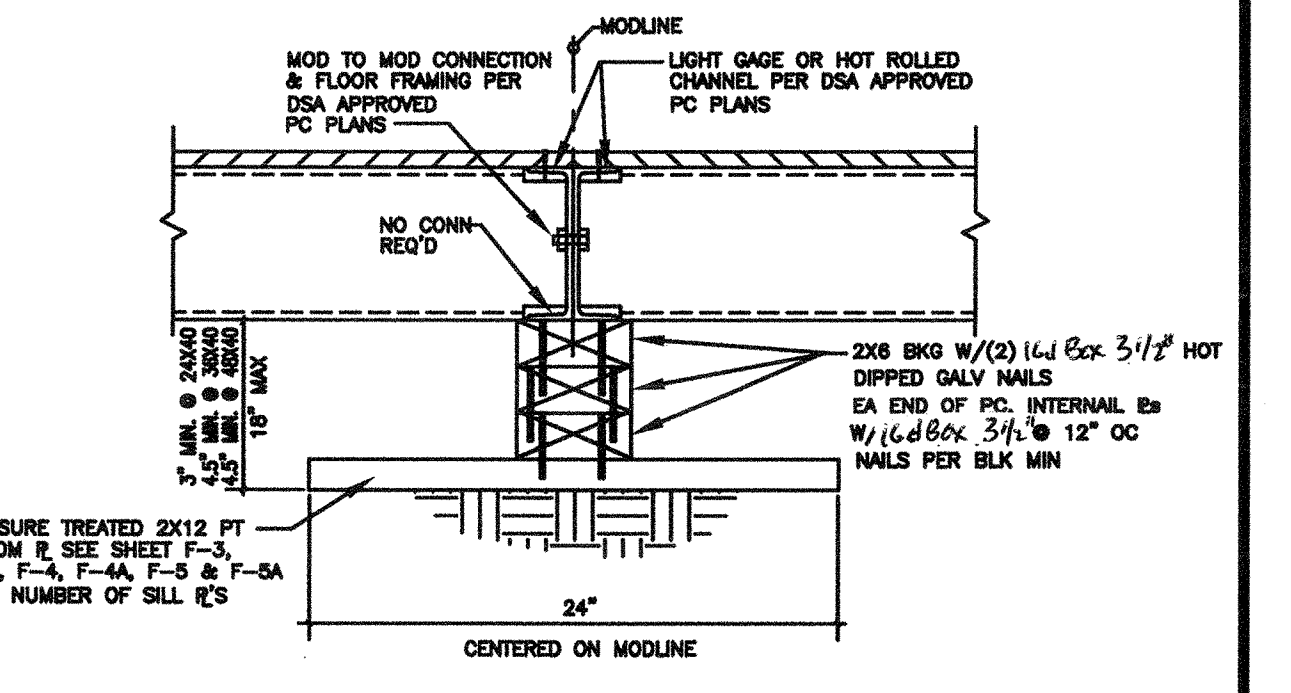
3 END WALL & SIDEWALL SILL R'S @ AMERICAN MODULAR SYSTEMS BUILDINGS 1 1/2" = 1'-0"



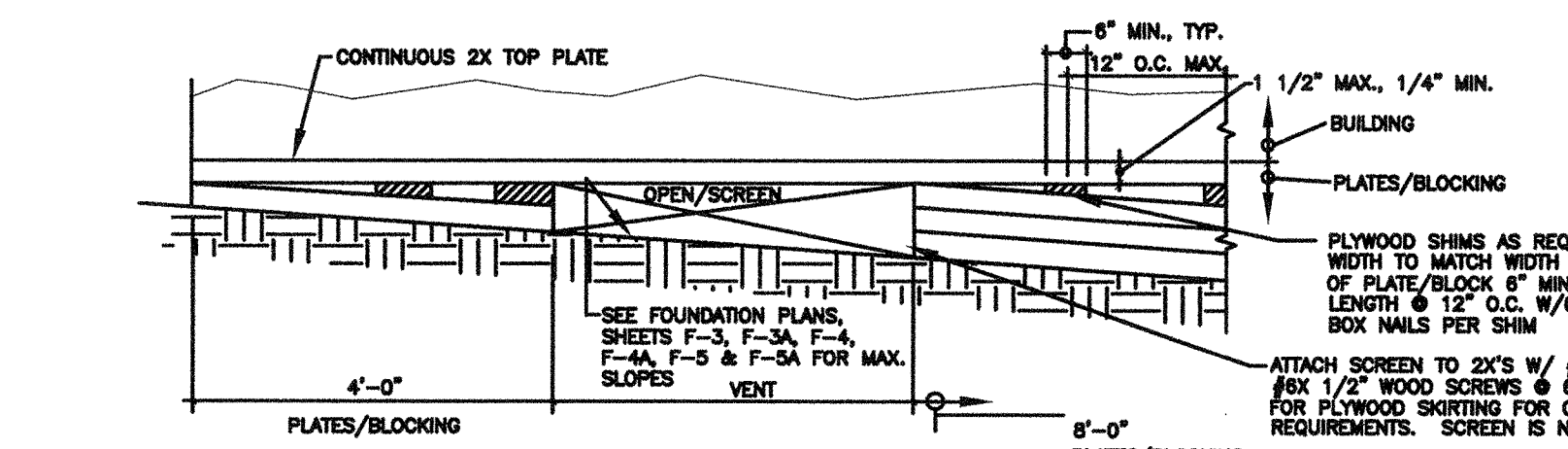
4 MODLINE FOOTING @ AMERICAN MODULAR SYSTEMS BUILDINGS 1 1/2" = 1'-0"



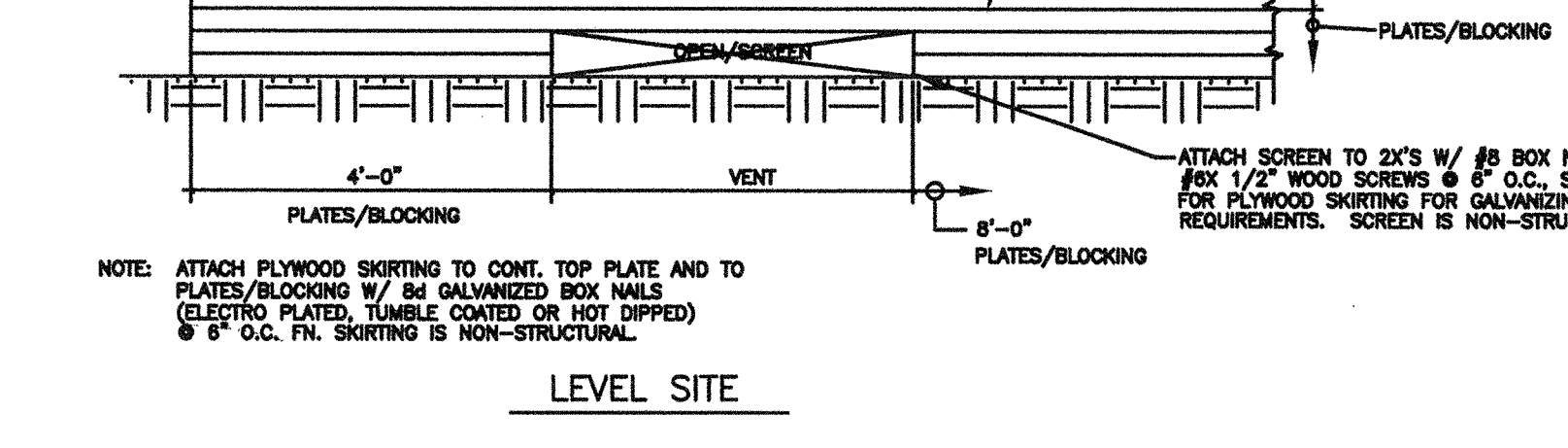
1 END WALL & SIDEWALL SILL R'S 1 1/2" = 1'-0"



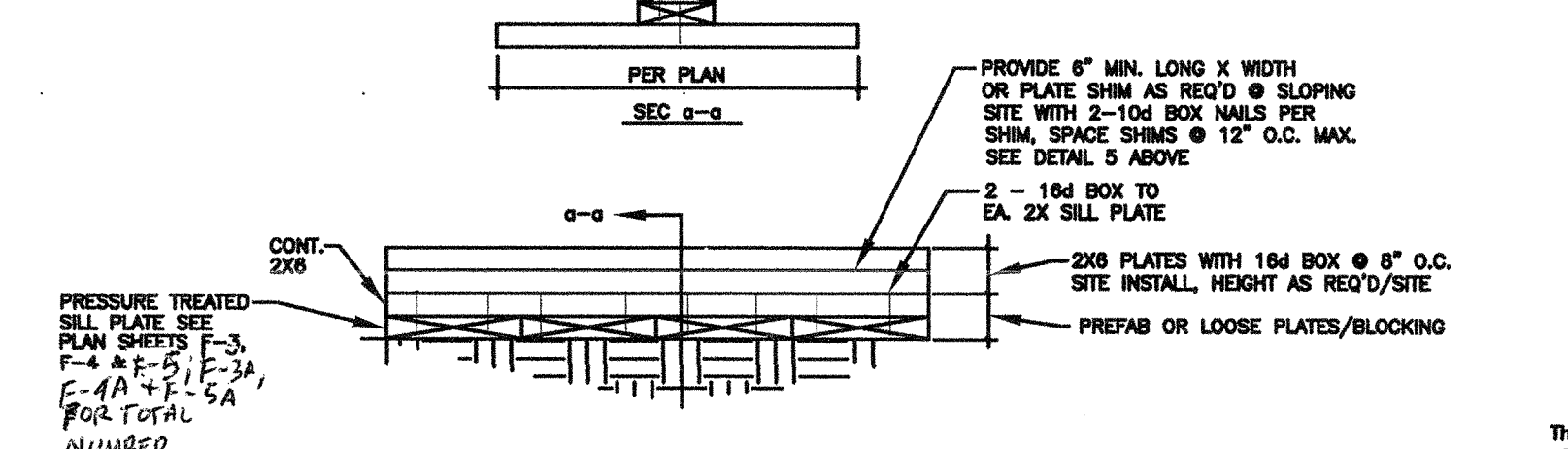
2 MODLINE FOOTING 1 1/2" = 1'-0"



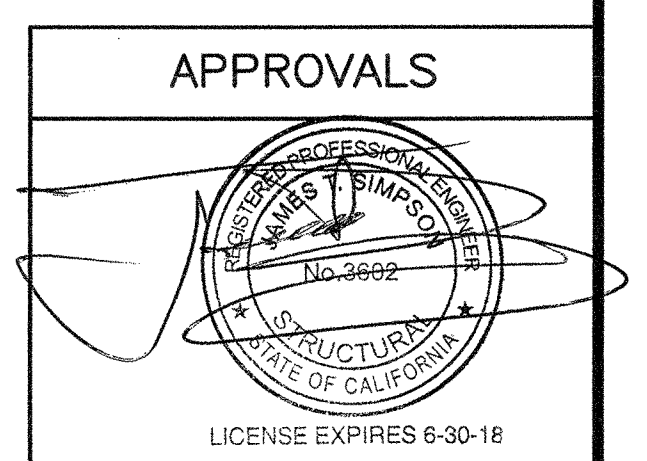
5 PLATE LAYUP @ PERIMETER FTG'S NTS



5 PLATE LAYUP @ PERIMETER FTG'S NTS



6 PLATE LAYUP @ MODLINE FTG'S NTS



PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 PC 04-116149
 AC FL 15 SS 22
 DATE: SEP 19 2017

REVISIONS	BY

STRUCTURAL ENGINEERS, INC.
 11450 MISSION BLVD.
 MIRA LOMA, CA 91752
 (949) 852-2000
 FAX (949) 852-2008
 CAL. LICENSE NUMBER 47114

DETAILS
 PC 04-116149
 MOBILE MODULAR
 11450 MISSION BLVD.
 MIRA LOMA, CA 91752

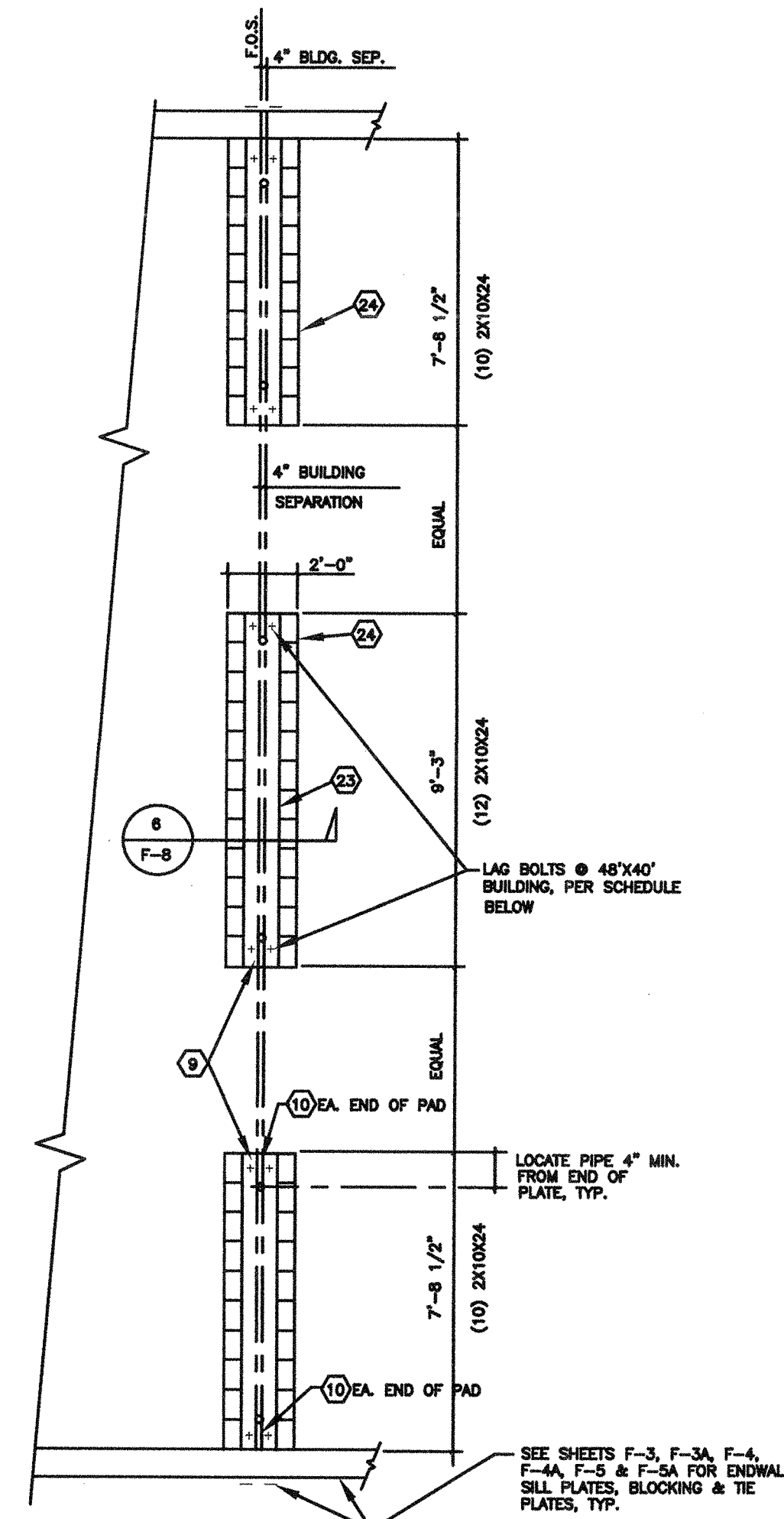
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 APPL 01-117316
 ACS FL 15 SS 22
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SITE:

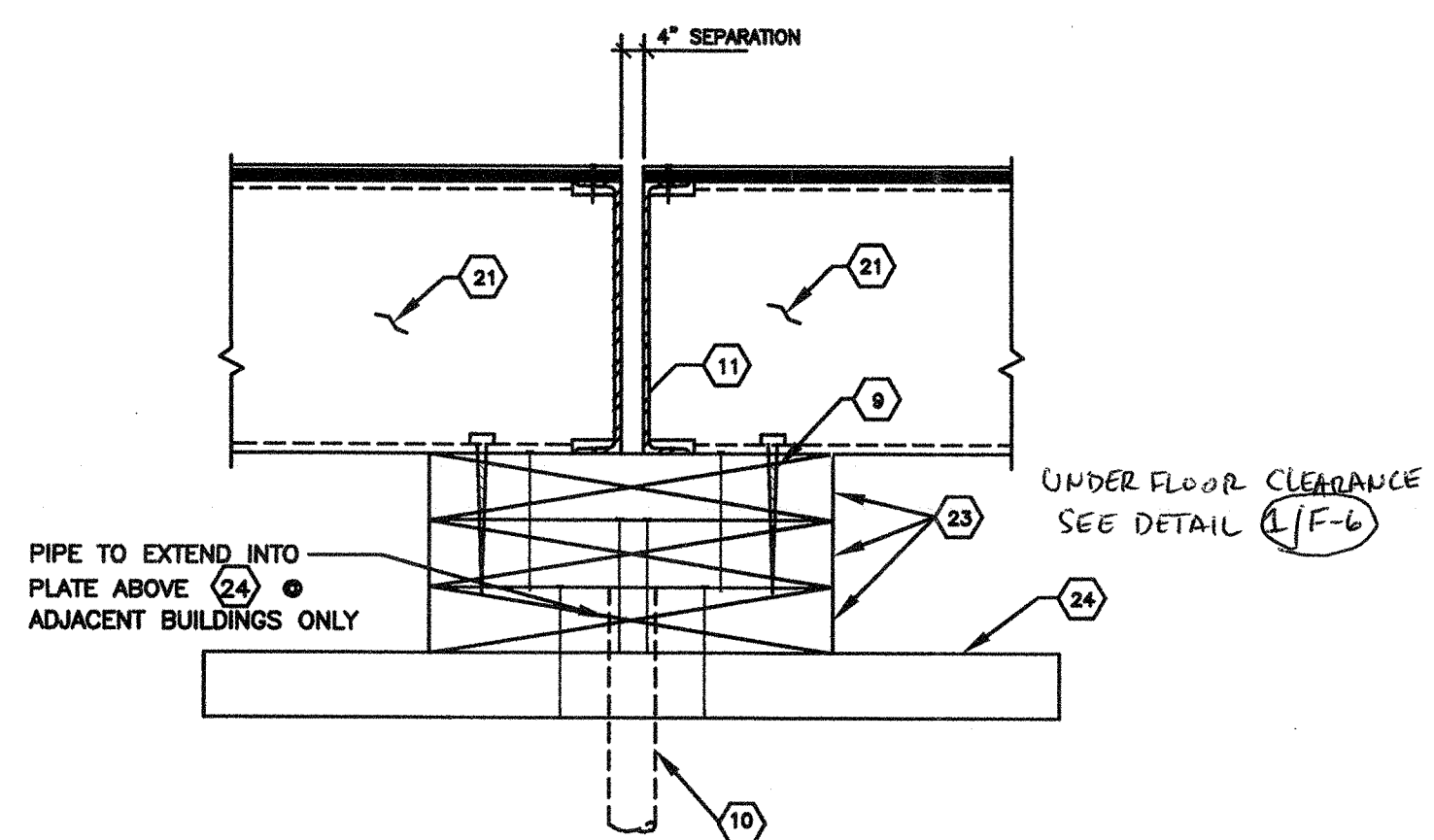
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 CHECKED
 DATE JUN. 15, 2017
 SCALE
 JOB NO.
 F-6
 OF 12 SHEETS

MOBILE MODULAR MANAGEMENT PC 113103 SHEET F-6

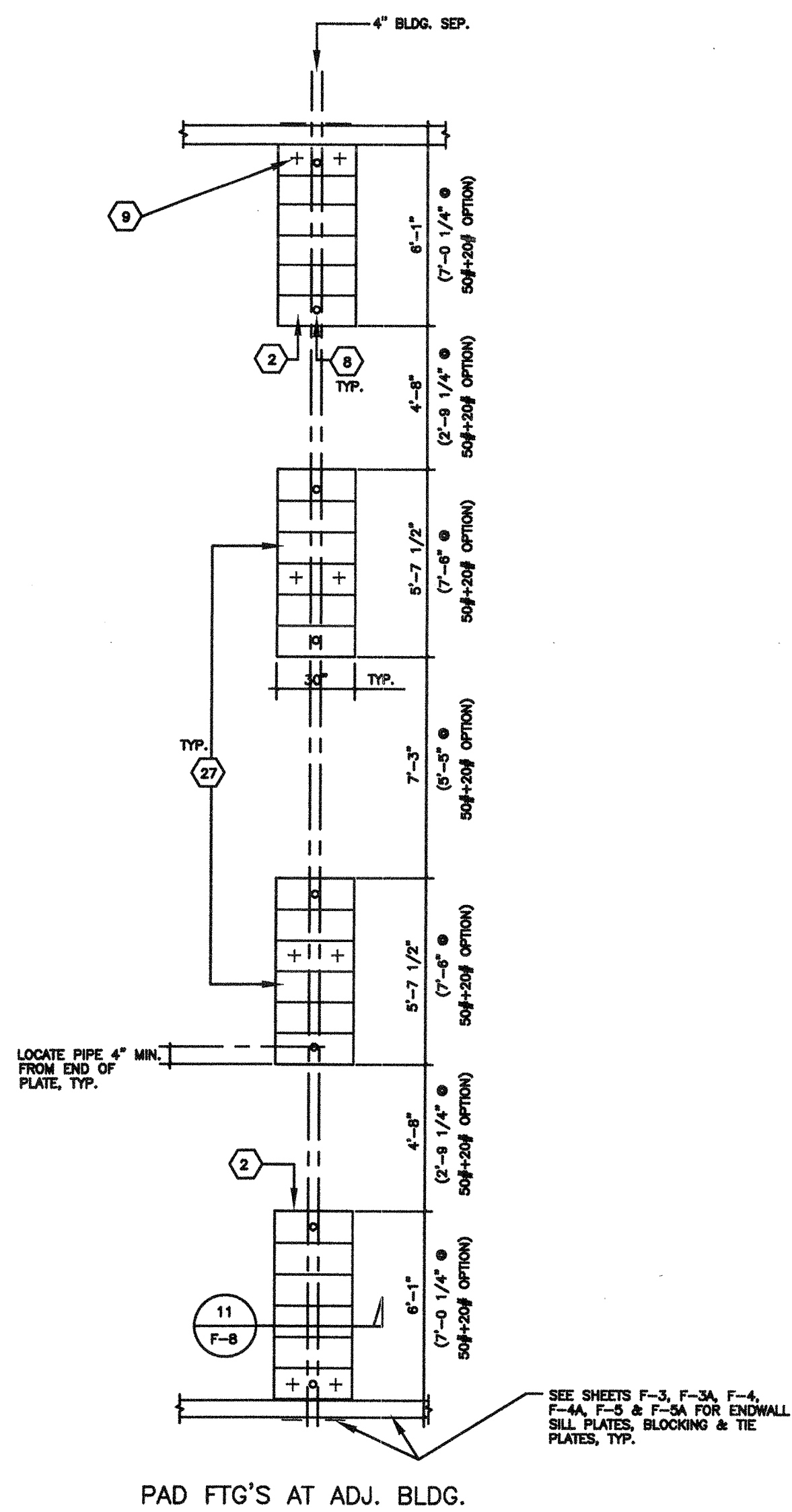
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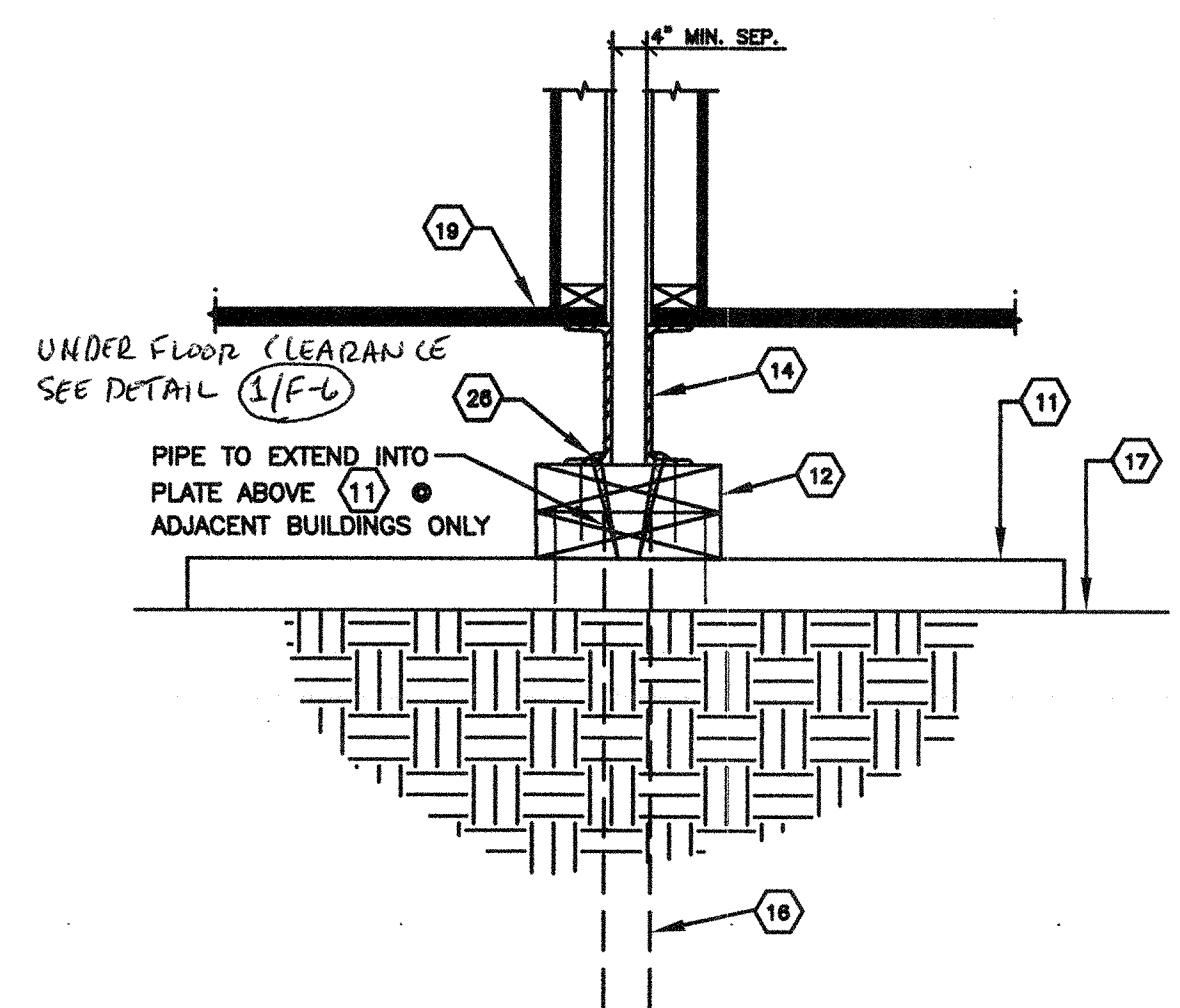
9. LAG BOLT AND HOLE PER LAG SCHEDULE TABLE
10. DRIVE 1" DIA. X 15" G.I. PIPE @ 10'-0" O.C. MAX. DRILL SILL PLATE 1-1/4" MAX. PIPE MAY BE DRIVEN AT MAX. 45 ANGLE TO VERTICAL
11. 7" X 9.8# STEEL FLOOR CHANNEL
21. FLOOR JOIST OR BLOCK BETWEEN FLOOR JOIST.
23. CONTINUOUS 2X12(SEE PLAN). NAIL(2) 16d AT EACH END AND 5" O.C.
24. 2X10X24" LONG SILL PADS. P.T.H.F. (SEE PLAN FOR QUANTITY 10 AT ENDS & 12 AT INTERIOR)



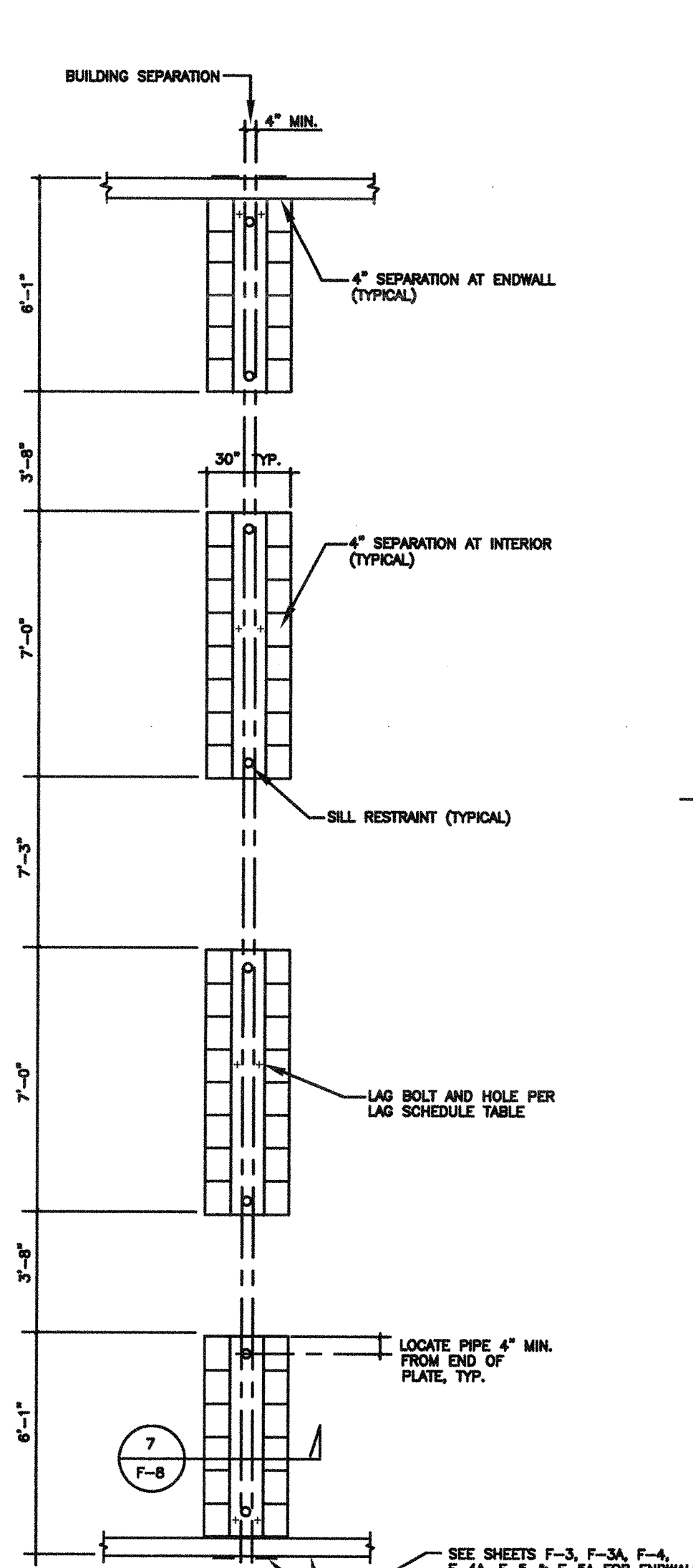
MODULAR STRUCTURES INTERNATIONAL, INC. (MS) **6**
 ADJACENT BUILDING FOUNDATIONS
 SEE SHEET F-2 FOR DSA APPLICATION NUMBERS.
 NOTE: ADJACENT BUILDING PLAN DETAILS ARE PER EXISTING APPROVED DSA STOCKPILE PLANS



PAD FTG'S AT ADJ. BLDG.

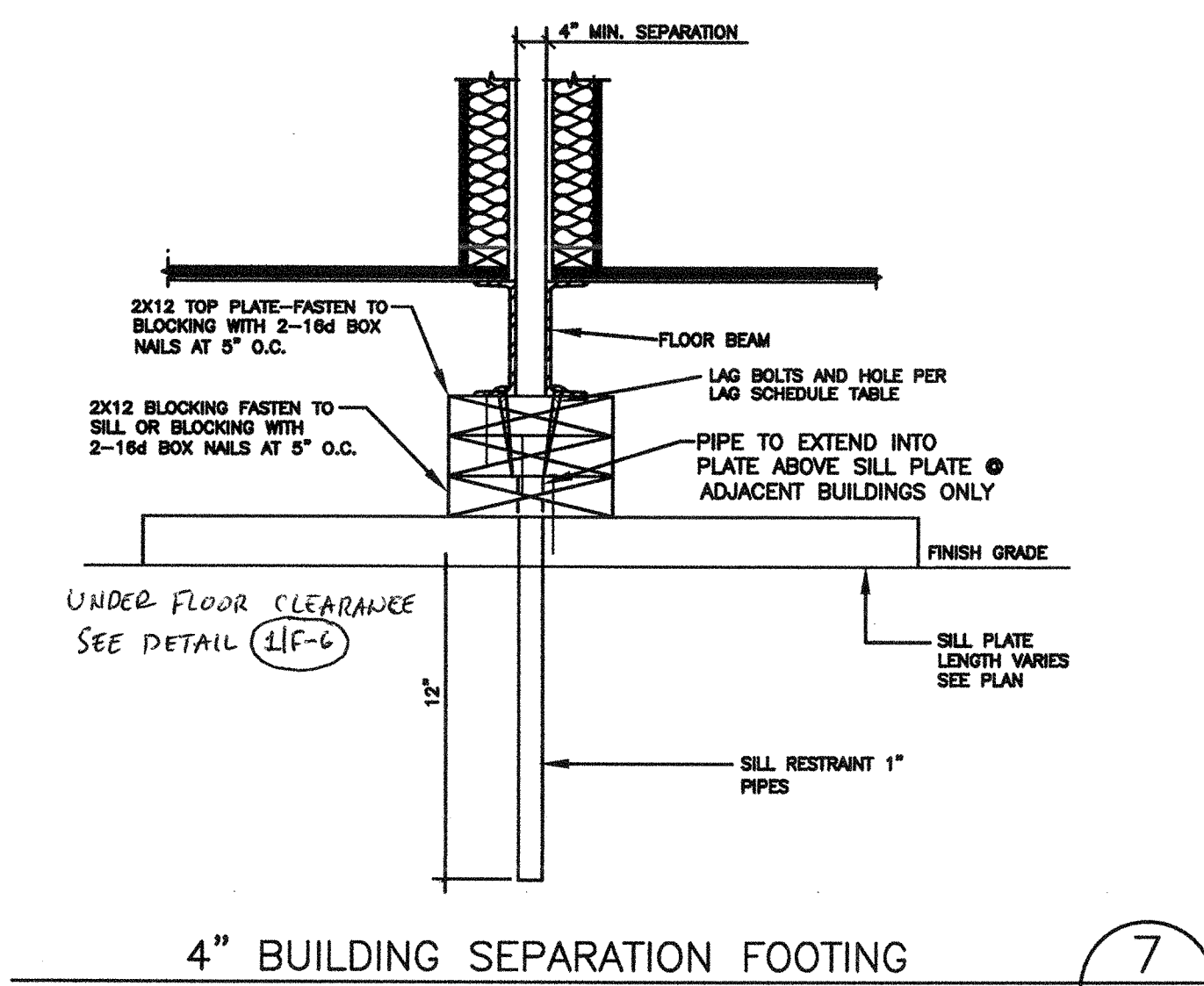


MODTECH, INC. (MT) **11**
 ADJACENT BUILDING FOUNDATIONS
 SEE SHEET F-2 FOR DSA APPLICATION NUMBERS.
 NOTE: ADJACENT BUILDING PLAN DETAILS ARE PER EXISTING APPROVED DSA STOCKPILE PLANS



FOOTINGS AT ADJACENT BUILDING SEPARATION (4" SEPARATION)

PLAN **10X**
F-8



4" BUILDING SEPARATION FOOTING **7**
F-8

WALDEN STRUCTURES & CONSTRUCTION (WS)
 ADJACENT BUILDING FOUNDATIONS

SEE SHEET F-2 FOR DSA APPLICATION NUMBERS.
 NOTE: ADJACENT BUILDING PLAN DETAILS ARE PER EXISTING APPROVED DSA STOCKPILE PLANS

BUILDING SIZE	NUMBER OF LAGS PER BUILDING AT ADJACENT BUILDING LINES			
	5/8" x 4"	1/2" x 3 1/2"	1/2" x 3 1/2"	1/2" x 3 1/2"
24' X 40'	4	5	5	7
36' X 40'	5	7	8	11
48' X 40'	7	10	10	14

APPROVALS

DATE: AUG 02 2017

PRE-CHECK (PC) DOCUMENT
 CODE: 2016 CBC
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES

PC 04-116149
 AC: [Signature] FLS: [Signature] SS: [Signature]
 DATE: SEP 19 2017

REVISIONS	BY

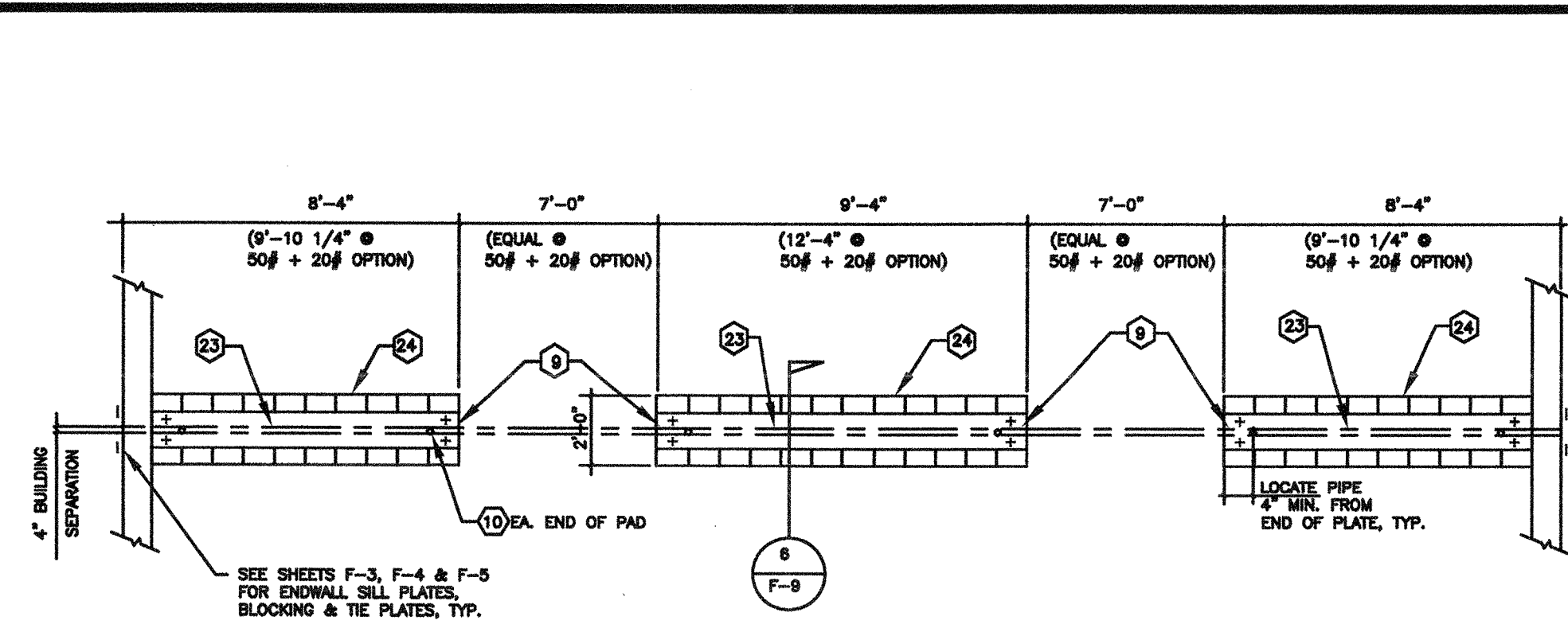
NUMBER: 111111
 ASSOCIATION & CATEGORY: STRUCTURAL ENGINEERS, INC.
 AMERICAN CONCRETE INSTITUTE
 3501 A PARDNER AVE, SUITE 114
 COSTA MESA, CA 92626
 PHONE: 949-441-2222

ADJACENT BLDGS
 PC 04-116149
 MOBILE MODULAR
 11450 MISSION BLVD.
 MIRA LOMA, CA 91752

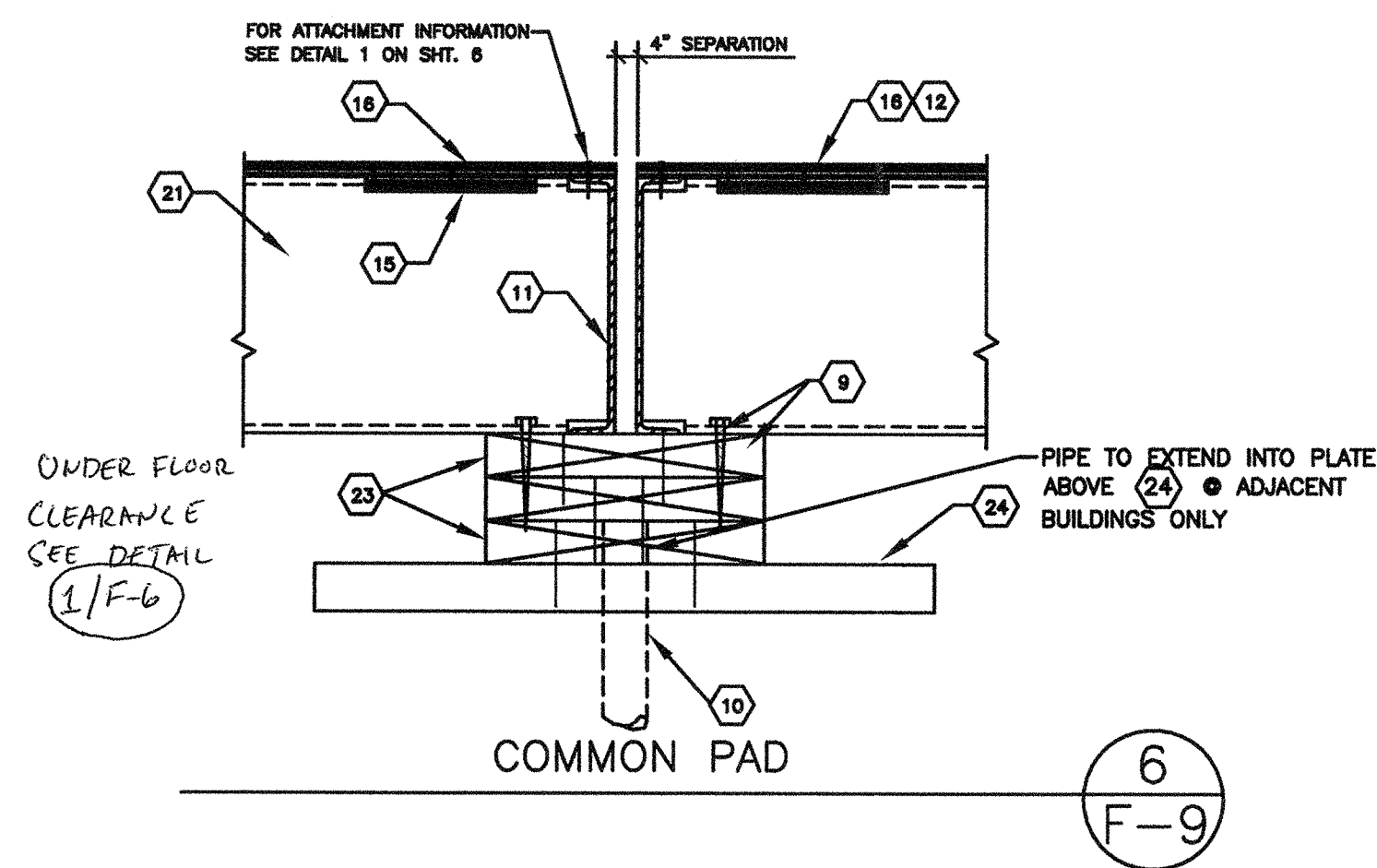
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 SCALE:
 JOB NO.:
F-8
 OF 12 SHEETS

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 APPL 01-117316
 ACS: [Signature] FLS: [Signature] SS: [Signature] D.M.
 DATE: 11/18

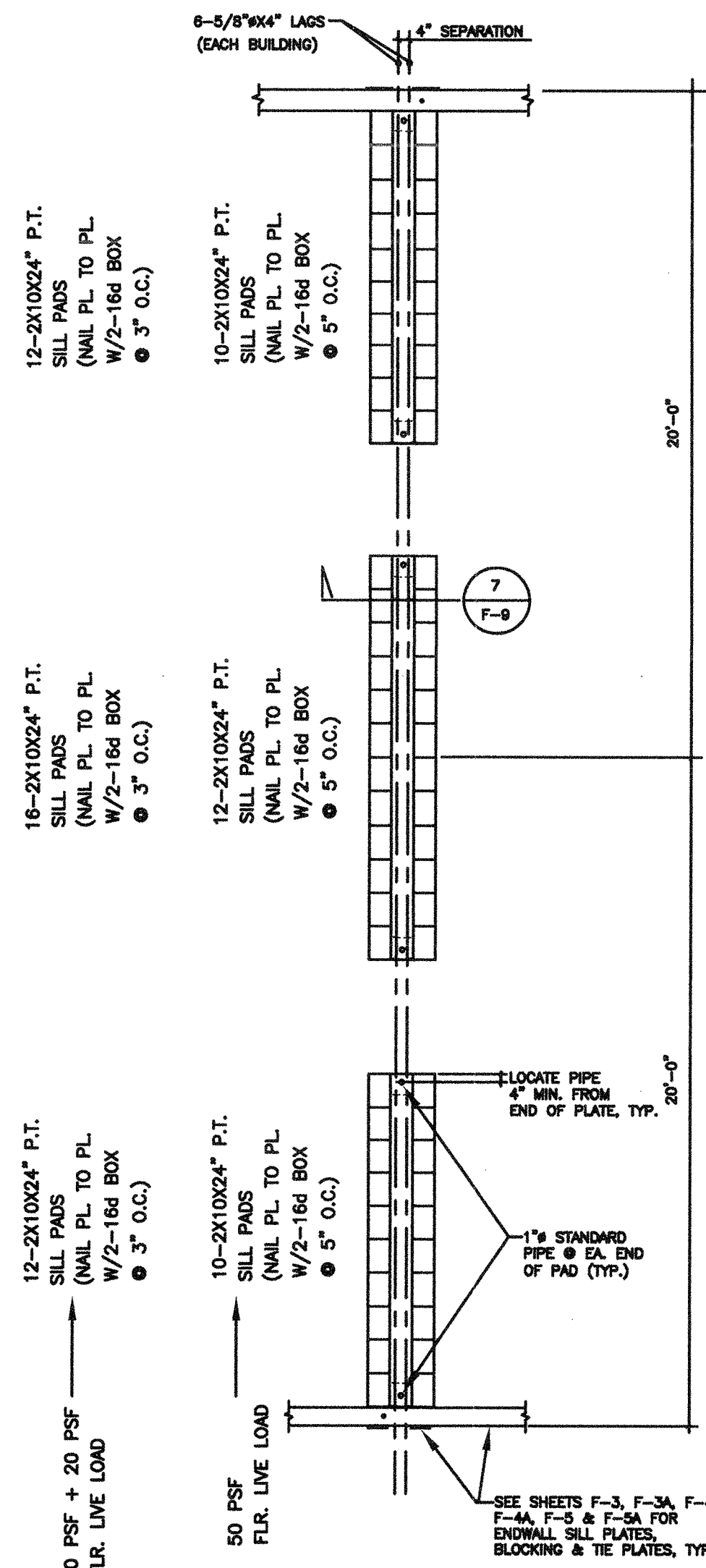


9. LAG BOLT AND HOLE PER LAG SCHEDULE TABLE
10. DRIVE 1" STANDARD DIA. X 15" G.I. PIPE @ 10'-0" O.C. MAX. DRILL SILL PLATE 1-1/4" MAX. PIPE MAY BE DRIVEN AT MAX. 45 ANGLE TO VERTICAL.
11. STEEL FLOOR CHANNEL
12. 5" DIA. ACCESS HOLE AT MODULE CONNECTION BOLT LOCATIONS.
15. PLYWOOD STRIP - 3/4" X 3" X 8" PIECE W/2) #12X 2-1/4" FLAT HEAD WOOD SCREWS EACH END.
16. PLUG - 5" DIA. PIECE OF FLOOR SHEATHING W/2) #12X 2-1/4" FLAT HEAD WOOD SCREWS EA. END.
21. FLOOR JOIST OR BLOCK BETWEEN FLOOR JOIST.
23. CONTINUOUS 2X12(SEE PLAN). NAIL(2) 16d AT EACH END AND 5" O.C.
24. 2X10X24" LONG SILL PADS, P.T.H.F. (SEE PLAN FOR QUANTITY 10 AT ENDS AND 12 AT INTERIOR @ 50# FLOOR LOAD, PROVIDE 12 AT ENDS AND 16 AT INTERIOR @ 50# + 20# FLOOR LOAD OPTION)

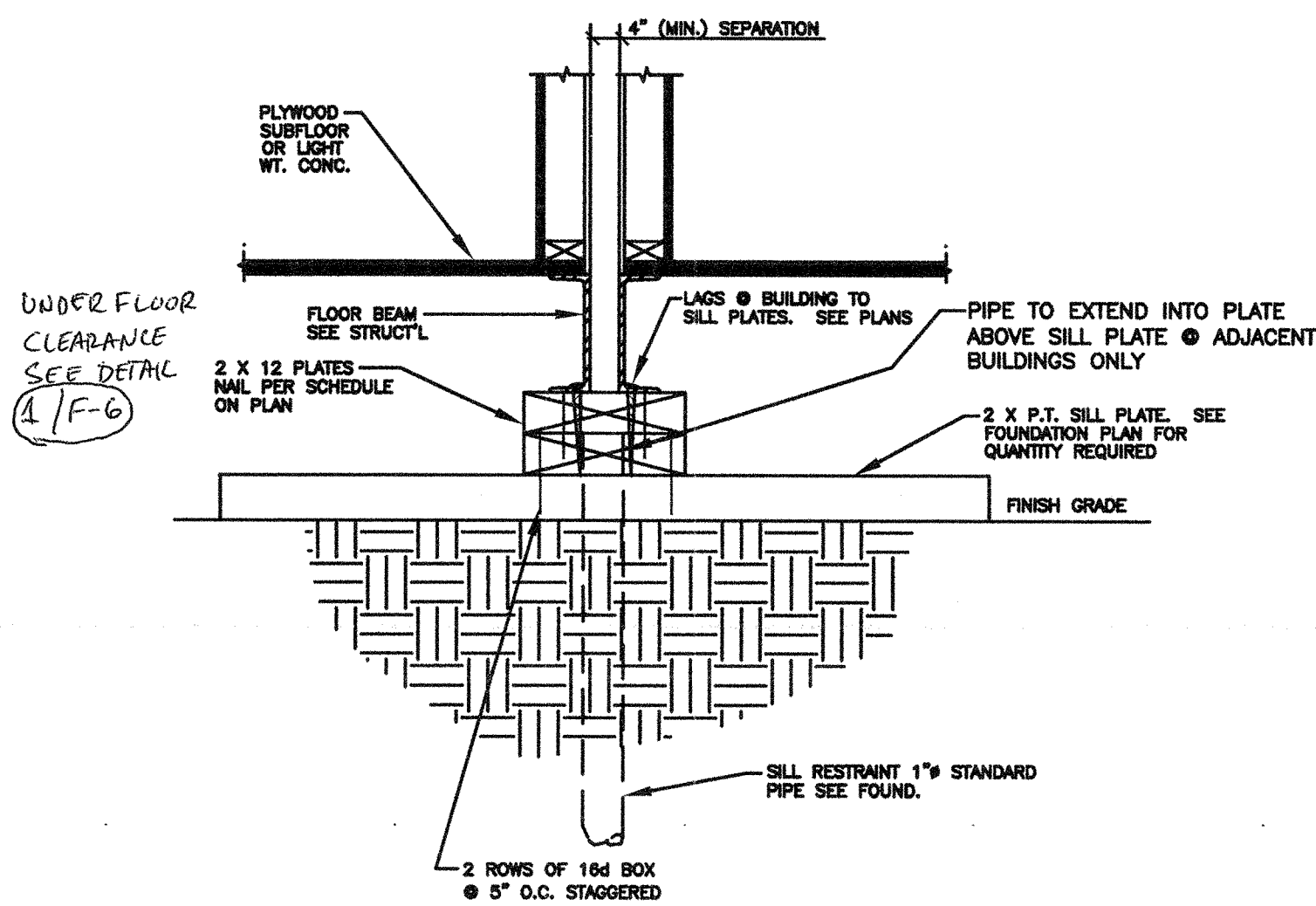


AURORA MODULAR INDUSTRIES, INC. (AU)
 ADJACENT BUILDING FOUNDATIONS

SEE SHEET F-2 FOR DSA APPLICATION NUMBERS.
 NOTE: ADJACENT BUILDING PLAN DETAILS ARE PER EXISTING APPROVED DSA STOCKPILE PLANS



PARTIAL PLAN @ BLDG. SEPARATION
 (SEPARATION APPLIES WHEN BUILDINGS ARE SET AS TWO INDIVIDUAL UNITS)



SILVER CREEK INDUSTRIES, INC. (SI)
 ADJACENT BUILDING FOUNDATIONS

SEE SHEET F-2 FOR DSA APPLICATION NUMBERS.
 NOTE: ADJACENT BUILDING PLAN DETAILS ARE PER EXISTING APPROVED DSA STOCKPILE PLANS

APPROVALS

DATE: 02-2017

EXPIRES: 6-30-18

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 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES

PC 04-116149
 AC: [initials] FLS: [initials] SS: [initials]
 DATE: SEP 18 2017

REVISIONS	BY

REGISTERED PROFESSIONAL ENGINEER
 AMERICAN CONCRETE INSTITUTE
 (000) 912-2024
 (000) 912-2028

STRUCTURAL ENGINEERS, INC.
 4501 WATSON DRIVE, SUITE 114
 GARDEN GROVE, CALIFORNIA 92710

ADJACENT BLDGS
 PC 04-116149

MOBILE MODULAR
 11450 MISSION BLVD.
 MIRA LOMA, CA 91752

SITE:

DRAWN

CHECKED

DATE
 JUN. 15, 2017

SCALE

JOB NO.

F - 9

OF 12 SHEETS

IDENTIFICATION STAMP
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 APPL 01-117316
 ACS: [initials] FLS: [initials] SS: [initials]
 DATE: 11/10/17

END OF PROJECT MANUAL