



REQUEST FOR PROPOSALS

FOR

WAREHOUSE IV MEMBRANE REPLACEMENT AT THE TIOGA MARINE TERMINAL

Key Dates:

MANDATORY PRE-PROPOSAL MEETING: PhilaPort will host a **mandatory** pre-proposal meeting on **Thursday, May 25, 2023, at 10:00 A.M.** The meeting will be held at the Tioga Marine Terminal, near the employee parking lot, immediately upon entering the main gate. Tioga Marine Terminal is located at 3601 North Delaware Avenue, Philadelphia, PA 19134. Attendees should RSVP to the pre-proposal meeting by emailing procurement@philaport.com with the name of attendees. All attendees must wear a high-visibility safety vest.

QUESTIONS: Questions must be in writing and should be sent to the attention of the Procurement Department at e-mail address procurement@philaport.com. Email should list the project name and number in the subject line. Questions must be received by **Thursday, June 8, 2023, by 12:00 P.M. (Noon)**. Questions received after the deadline will be answered at the sole discretion of PhilaPort.

PROPOSAL SUBMISSION DEADLINE: Proposals will be submitted electronically per the directions in Section III. E, by **Thursday, June 29, 2023, by 2:00 P.M.**

NO LATE PROPOSALS. NO FAXED OR EMAILED PROPOSALS.

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I. INTRODUCTION

A. PURPOSE

This request for proposals (RFP) provides information to enable Offerors to prepare and submit proposals for the Philadelphia Regional Port Authority's ("PhilaPort") consideration.

The information contained in and provided for this RFP is provided for background purposes only. While every effort has been made to ensure the accuracy of the information contained in this RFP, it is not, and shall not be construed as and shall not constitute, a representation, warranty or guaranty by PhilaPort regarding the content, completeness, or accuracy of such information, or the qualifications or expertise of the individual(s) or firm(s) providing or preparing such information. Each entity responding to this RFP ("Offeror") shall rely solely on its own inspections, investigation, confirmation and analysis of (1) the circumstances that will affect the performance of the "Services", as defined in the General Conditions, (2) the information contained in or delivered pursuant to this RFP and (3) all other information that such Offeror deems necessary or prudent in evaluating and analyzing the "Project," as defined in the General Conditions.

This RFP is not a legally binding document, but an invitation to submit proposals on the terms and conditions of this RFP. In no event shall PhilaPort be responsible for any costs, expenses or fees incurred by or on behalf of the Offeror in connection with this RFP. The Offeror shall be solely responsible for all such costs, expenses and fees.

PhilaPort reserves the right at any time prior to award, to modify the schedule and scope of this solicitation process, to terminate the RFP process, and to reject or not consider all or any part of any proposal submitted in response to this RFP for any reason or no reason. Further, after review of the proposals, PhilaPort reserves the right to request additional or clarifying information from any or all parties that submit proposals in response to this RFP.

B. ABOUT PHILAPORT

PhilaPort is an independent agency of the Commonwealth of Pennsylvania, responsible for the management, maintenance, promotion, and development of port facilities along the Delaware River.

PhilaPort's principal goals are to enhance waterborne commerce, promote economic growth, and create jobs. PhilaPort was created for the purpose of acquiring, holding, developing, constructing, improving, maintaining, managing, operating, financing, equipping, repairing, leasing or subleasing, and owning port facilities and port-related projects within the Pennsylvania, Delaware River Port district. The port district includes the area along Delaware River in Philadelphia, Bucks and Delaware Counties.

Over 3,000 ships load and offload at the Port of Philadelphia each year - making it one of the busiest ports on the North Atlantic range. The Port of Philadelphia handles more than one-quarter

of the entire North Atlantic District's annual tonnage, and is the fourth largest port in the U.S. for the handling of imported goods.

The Port of Philadelphia is strategically located at the center of the Northeast corridor, the country's largest and richest marketplace. The port has direct access to more major cities by rail and truck than any other port in the country; ensuring deliveries are made in a timely and cost-effective manner.

PhilaPort's facilities are highly diversified and handle containers, break-bulk, project cargo, and liquid bulk. The port includes specialized facilities for forest products and for perishable cargo.

C. PROJECT DESCRIPTION

The intent of this RFP is to procure a contractor to provide a full turnkey replacement of the fabric membrane on the Tioga IV Warehouse. This warehouse, constructed in 2003, is a double barrel fabric membrane structure, approximately 487.5'Lx110'Wx23'H. Appendix E contains submittal drawings from the original structure construction. PhilaPort does not possess the original as built drawings for this building, and these submittals are being provided FOR REFERENCE ONLY. It is the Contractor's SOLE responsibility to accurately measure, order, and install the replacement membrane and all associated fasteners and hardware that is the subject of the RFP.

The Contractor shall be solely responsible to develop any and all documents, applications, specifications, etc. required to obtain required permits to replace the membrane structure. The critical design criteria for the replacement membrane are as follows:

1. Design and Performance Requirements - PVC Coated Membrane Cladding System
 - a. Continuous, Weather Tight Membrane: The structure membrane shall form a continuous, uninterrupted weather tight shell over the framework. In order to provide for a good, finished appearance and to ensure weather tightness, the gable wall PVC cladding shall be manufactured so as to be connected in one piece to the adjacent side wall and roof cladding without the use of catenary cables.
 - b. Cladding Section Joints: Adjacent PVC cladding sections shall either lace together with a minimum 1/4" white polyester braided rope or be provided with a mechanical tensioning system so as to maintain PVC tension along the length of the building. Proper gaps shall be maintained between sections so as to allow sufficient distance to enable full tensioning of the material.
 - c. Overlap Seams: The membrane system shall be designed such that the PVC cladding panels can be supplied with optional overlap joints to allow adjacent panels to be field heat sealed together.

- d. Base Tensioning System: The PVC cladding will be provided with a mechanical tensioning system that allows the PVC to be fully tensioned around the structure perimeter. The system will be designed such that the membrane can be tightly and neatly secured over the structural frame and such that the system has remaining range of adjustment.
- e. Membrane Seal at Openings and Base: The structure supplier will provide all materials and methods necessary to fully tension and seal the membrane material around all door, ventilation and other openings as well as around the structure perimeter below the main tensioning system. This seal shall provide a neat and finished appearance and eliminate any loose PVC cladding that could otherwise be damaged by flapping or abrasion. When a PVC base skirt is required, this shall be supplied separately from the main PVC cladding and attached at the base perimeter so as to allow a reasonable seal against vermin, and air and water intrusion.
- f. Design Safety Factor: The PVC attachment and tensioning system shall be designed such that the completed system allows a factor of safety at design loads of at least three (3) times the theoretical design strength of the PVC material.
- g. The structure membrane shall be designed to function as a structural member such that, should any damage to or penetrations of the membrane occur, the integrity of the overall structural framework shall not be affected.
- h. The structure shall be capable of being assembled, operated and dismantled in all ambient temperatures between -20°F and 120°F.
- i. The fabric material shall be designed to withstand a maximum temperature of 150°F when stored in packing containers.

Below are the target minimum performance specifications of the membrane fabric:

Finished Coated Weight	28 oz/yd ²
Trapezoid Tear, per ASTM D751	80/80 lb
Strip Tensile per ASTM D751 B	500/500 lb/in
Adhesion per ASTM D751	10 lb/in
Seam Strength per ASTM D751, dead load	250 lb@ 70°F, 130 lb @ 155°F
Low Temp Per ASTM D2136	Pass @ -40 °F
Flame Resistance	Meets or Exceeds NFPA 701 and ASTM E84 Class A

Once under contract, all documents developed to support any permit applications shall be submitted to PhilaPort's project manager in draft form for review and approval prior to being submitted to the applicable permitting agency. Submittals and shop drawings for the membrane

replacement materials, including but not limited to removal and replacement methods, tensioning and Sealing Hardware, and membrane fabric specifications must be approved by PhilaPort's Engineer prior to commencing orders and installations.

The Contractor, by submitting a response to this RFP, acknowledges that they understand that this work is to be performed in an operating facility, that space is at a premium, and that the contractor must at all times minimize impacts to operations while executing the replacement activities. Only one side of the double-barrel structure will be empty at one time. Contractor must not impact cargo stored in the other area, and must also fully complete the fabric replacement on the one side to the point of being weather tight, so that product can be moved and the other side can be made empty for the second half of the installation. Contractor is also required to remove and reinstall all attached fixtures, hardware, electric, lighting, signage, etc.

By submitting a response to this RFP, Contractor acknowledges he will have sufficient workforce that possess Transportation Worker Identification Credentials (TWIC) to gain access and properly perform the Work by the date of Notice to Proceed with the Work. Information on obtaining a TWIC card can be found at <https://www.tsa.gov/for-industry/twic>.

Note: This project is subject to Prevailing Wage Rates – Attached as Appendix B.

D. TYPE OF CONTRACT

If PhilaPort enters into a contract as a result of this RFP, it will be a firm-fixed price contract and will contain the Contract Terms and Conditions attached to this RFP (Appendix B).

E. REJECTION OF PROPOSALS

PhilaPort reserves the right, in its sole and complete discretion, to reject any proposal received as a result of this RFP. The Proposals of any Offeror or Offerors that engage in collusion shall be rejected. Any Offeror who submits more than one Proposal in such manner as to make it appear that the Proposals submitted are on a competitive basis from different parties shall be considered a collusive Offeror. PhilaPort may reject the Proposals of any collusive Offeror upon Proposal openings. Nothing in this Section shall prevent an Offeror from superseding a Proposal by a subsequent Proposal delivered prior to the opening of Proposals which expressly revokes the previous Proposal.

F. INCURRING COSTS

PhilaPort is not liable for any costs the Offeror incurs in preparation and submission of its proposal, in participating in the RFP process or in anticipation of award of the contract.

G. QUESTIONS & ANSWERS

Questions must be in writing and should be sent to the attention of the Procurement Department at e-mail address procurement@philaport.com. The project name and number should be indicated

in the subject line. **Questions must be received by Thursday, June 8, 2023, at 12:00 PM (Noon).** Questions must be submitted by the posted deadline. All questions and responses are considered an addendum to and part of this RFP. PhilaPort shall not be bound by any verbal information, nor shall it be bound by any written information that is not either contained within the RFP or formally issued by PhilaPort. PhilaPort does not consider questions to be a protest of the specifications or the solicitation. Questions received after the deadline will be answered at the sole discretion of PhilaPort.

H. PRE-PROPOSAL CONFERENCE

PhilaPort will host a mandatory pre-proposal meeting on **Thursday, May 25, 2023 at 10:00 A.M.** The meeting will be held at the Tioga Marine Terminal, near the employee parking lot, immediately upon entering the main gate. Tioga Marine Terminal is located at 3601 North Delaware Avenue, Philadelphia, PA 19134. Attendees should RSVP to the pre-proposal meeting by emailing procurement@philaport.com with the name of attendees. All attendees must wear a high-visibility safety

I. ADDENDA TO THE RFP

Any revisions to this RFP will be made via addenda and will be posted to PhilaPort's website – www.philaport.com/procurement. Copies of the addenda acknowledgements are to be submitted with Proposals.

J. RESPONSE DATE

To be considered for selection, proposals must be submitted on or before the time and date specified. PhilaPort will reject any late proposals.

K. PROPOSAL SUBMISSION

To be considered, Offerors must submit a complete response to this RFP by the due date and time from an official authorized to bind the Offeror to its provisions.

L. PROPOSAL FORMAT

To be considered, the proposal must respond to all proposal requirements. Each proposal consists of four (4) submittal components: Proposal Certification and Legal Disclosures, Technical, Cost, and Diversity and Inclusion (HUB) Participation. In addition, any proposal security required by this RFP must be timely received by PhilaPort. PhilaPort reserves the right to request additional information which, in PhilaPort's opinion, is necessary to assure that the Offeror's competence, number of qualified employees, business organization, and financial resources are adequate to perform according to the RFP. PhilaPort may make investigations as deemed necessary to

determine the ability of the Offeror to perform the Project, and the Offeror shall furnish to PhilaPort all requested information and data.

M. DISCUSSIONS FOR CLARIFICATION

Offerors may be required to make an oral and/or written clarification of their proposals to PhilaPort to ensure thorough mutual understanding and responsiveness to the solicitation requirements. PhilaPort will initiate any requests for clarification. Clarifications may occur at any stage of the evaluation and selection process prior to contract execution.

N. PRIME CONTRACTOR RESPONSIBILITIES

The selected Offeror must perform a minimum of 20% of the cost of the direct labor required to perform the contract (not including the cost of materials, equipment, supplies, administrative or overhead costs) with their own employees. Nevertheless, the contract will require the selected Offeror to assume responsibility for all services offered in its proposal whether it produces them itself or by subcontract. Further, PhilaPort will consider the selected Offeror to be the sole point of contact with regard to all contractual matters, including warranty work.

O. PROPOSAL CONTENTS

1. Confidential Information. PhilaPort is not requesting confidential proprietary information or trade secrets to be included as part of Offerors' submissions. Accordingly, except as provided herein, Offerors should not label proposal submissions as confidential or proprietary or trade secret protected. Any Offeror who determines that it must divulge such information as part of its proposal must submit the signed written statement described in Subsection C. below. After contract award, the selected Offeror must additionally provide a redacted version of its proposal, which removes only the confidential proprietary information and trade secrets, for required public disclosure purposes.

B. PhilaPort Use. All material submitted with the proposal shall be considered the property of PhilaPort. PhilaPort has the right to use any or all ideas not protected by intellectual property rights that are presented in any proposal regardless of whether the proposal becomes part of a contract. Notwithstanding any Offeror copyright designations contained in proposals, PhilaPort shall have the right to make copies and distribute proposals internally and to comply with public record or other disclosure requirements under the provisions of any Commonwealth or United States statute or regulation, or rule or order of any court of competent jurisdiction.

C. Public Disclosure. After the award of a contract pursuant to this RFP, all proposal submissions are subject to disclosure in response to a request for public records made under the Pennsylvania Right-to-Know-Law, 65 P.S. § 67.101, et seq. If a proposal submission contains confidential proprietary information or trade secrets, a signed written statement to this effect must be provided with the submission in accordance with 65 P.S. § 67.707(b) for the information to be considered

exempt under 65 P.S. § 67.708(b)(11) from public records requests. If financial capability information is submitted, such financial capability information is exempt from public records disclosure under 65 P.S. § 67.708(b)(26).

P. MODIFICATION OF PROPOSALS

Proposals may be modified via written notice from an Offeror by its authorized representative prior to the exact hour and date set for the submission of Proposals. If an authorized representative submits a modified Proposal on behalf of an Offeror, written documentation substantiating that the authorized representative is authorized to make the modified Proposal and that the modified Proposal is submitted on the Offeror's behalf must be provided with the modified Proposal. A modification of the Proposal shall also state that it is in compliance with this RFP.

Q. WITHDRAWAL OF PROPOSALS

An Offeror may withdraw the Proposal by its authorized representative after receipt by PhilaPort, provided that the Offeror makes a request therefore in writing and the request is received by PhilaPort prior to the time fixed for the submission of Proposals.

R. BEST AND FINAL OFFERS (BAFO)

PhilaPort reserves the right to conduct discussions with Offerors for the purpose of obtaining "best and final offers" in one or more of the following ways, in any combination and order: schedule oral presentations, request revised proposals, and enter into pre-selection negotiations. The following Offerors will not be invited by PhilaPort to submit a Best and Final Offer: those Offerors which PhilaPort has determined to be not responsible or whose proposals PhilaPort has determined to be not responsive; those Offerors which PhilaPort has determined in accordance with the Offeror Responsibility subsection from the submitted and gathered financial and other information, do not possess the financial capability, experience or qualifications to assure good faith performance of the contract; and those Offerors whose score for their technical submittal of the proposal is less than 75% of the total amount of technical points allotted to the technical criterion. PhilaPort may further limit participation in the best and final offers process to those remaining responsible Offerors which PhilaPort has determined to be within the top competitive range of responsive proposals. The Evaluation Criteria shall also be used to evaluate the Best and Final offers.

S. NOTIFICATION OF SELECTION FOR CONTRACT NEGOTIATIONS

PhilaPort will notify all Offerors in writing of the Offeror selected for contract negotiations after PhilaPort has determined, taking into consideration all of the evaluation factors, the proposal that is the most advantageous to PhilaPort.

If appropriate to the nature of the Services being offered, PhilaPort will provide Offerors participating in negotiations with a list of entities which could pose a conflict of interest to the

extent that an Offeror has an on-going financial, or analogous relationship. Offeror shall identify any such relationships during those negotiations by supplementing its Part I proposal submittal.

T. NOTIFICATION OF AWARD

Offerors whose proposals are not selected will be notified when contract negotiations have been successfully completed, and PhilaPort has received the final negotiated contract signed by the selected Offeror.

U. DEBRIEFING CONFERENCES

Upon notification of award, Offerors whose proposals were not selected will be given the opportunity to be debriefed. PhilaPort will schedule the debriefing at a mutually agreeable time. The debriefing will not compare the Offeror with other Offerors, other than the position of the Offeror's proposal in relation to all other Offeror proposals. An Offeror's exercise of the opportunity to be debriefed does not constitute nor toll the time for filing a protest.

V. NEWS RELEASES

Offerors shall not issue news releases, Internet postings, advertisements or any other public communications pertaining to this Project without prior written approval of PhilaPort, and then only in coordination with PhilaPort.

W. RFP PROTEST PROCEDURE

Protests asserted in connection with the solicitation or award of a contract by PhilaPort are governed by the provisions of the Commonwealth Procurement Code, 62 Pa.C.S. §1711.1.

- (a) An actual or prospective Offeror who is aggrieved in the connection with the solicitation or award of a contract must file a protest with the Executive Director of PhilaPort in writing within seven days after the protesting Offeror knew or should have known of the facts giving rise to the protest, but in no event may an Offeror file a protest later than seven days after the date of PhilaPort's notice of award of the contract.
- (b) Upon receipt of a timely protest and until the time has elapsed for the Offeror to file an action in Commonwealth Court, PhilaPort shall not proceed further with the solicitation or with the award of the Contract unless and until the appropriate official within PhilaPort makes a written determination that the protest is clearly without merit or that award of the Contract without delay is necessary to protect substantial interests of PhilaPort.
- (c) If the protest is not resolved by mutual agreement, the appropriate official within PhilaPort shall promptly, but in no event later than sixty (60) calendar days from the filing of the protest, issue a decision in writing stating the reason for the action

taken and notifying the Offeror of their right to file an action in the Commonwealth Court within fourteen (15) calendar days from the mailing date of the decision.

- (d) No action may be commenced in Commonwealth Court in connection with the solicitation or award of a Contract unless the Offeror has exhausted the remedies set forth in this section.

X. ATTACHMENTS TO THE RFP

The following attachments are incorporated into and made part of the RFP.

Appendix A: Form for Submission of Proposal

Appendix B: Form of Agreement & General Conditions & Prevailing Wage Rates

Appendix C: Form for Price Proposal

Appendix D: Form for Submission of Diversity and Inclusion Participation

Appendix E: Reference Drawings

II. EVALUATION CRITERIA AND BASIS FOR AWARD

The following criteria will be used in evaluating each proposal:

A. OFFEROR RESPONSIBILITY

To be responsible, an Offeror must submit a responsive proposal and possess the capability to fully perform the contract requirements in all respects and the integrity and reliability to assure good faith performance of the contract. In order for an Offeror to be considered responsible for this RFP and therefore eligible for selection for best and final offers or selection for contract negotiations: The total score for the technical submittal of the Offeror's proposal must be greater than or equal to 75% of the available technical points and the Offeror must submit the required proposal security executed by a bank or surety company authorized to do business in the Commonwealth. The cost of the required performance security will be the sole responsibility of the Offeror and cannot increase the Offeror's cost proposal or the contract cost to PhilaPort.

B. PROPOSAL RESPONSIVENESS

A proposal being timely submitted and signed by the Offeror are the two (2) mandatory responsiveness requirements and are nonwaivable. PhilaPort reserves the right, in its sole discretion, to (1) waive any other technical or immaterial nonconformities in an Offeror's proposal, or (2) consider the nonconformity in the scoring of the Offeror's proposal.

The proposal must remain valid for 120 days from submission or until a contract is fully executed, whichever is later. If PhilaPort selects the Offeror's proposal for award, the contents of the selected Offeror's proposal will become, except to the extent the contents are changed through Best and Final Offers or negotiations, contractual obligations.

C. EVALUATION CRITERIA

- 1. Diversity Commitment:** PhilaPort has established the weight for the Diversity Commitment criterion for this RFP as 10% of the total points. PhilaPort will be evaluating diversity commitments of every Offeror's submission. Each Offeror's diversity commitment will be calculated using a ratio method. The Offeror with the highest amount of diversity commitment achieved will receive the full allotment of points for diversity. Proposals must include a plan for utilizing diverse subcontractors (HUBs), certified in the categories of inclusion listed in Appendix D, in providing the Services. Offeror's that do not propose a Diversity Commitment will not be considered for award unless they demonstrate they have made a good faith effort to solicit from a diverse pool of contractors and suppliers. Submit commitments for participation and good faith efforts in the format set forth in **Appendix D**.
- 2. Technical:** PhilaPort has established the weight for the technical criterion for this RFP as 40% of the total points. Evaluation will be based upon two subfactors: (i) Understanding, Methodology, Team Experience, and (ii) Project Execution

Schedule. An offeror proposing the shortest realistic duration, in calendar days, for the project will receive maximum points for the evaluation of the Project Execution Schedule subfactor.

Technical Proposal should include, at a minimum, all the elements listed in Section III, B. of this RFP.

3. **Price:** PhilaPort has established the weight for the price criterion for this RFP as 50% of the total points. The price criterion is rated by giving the proposal with the lowest total Price the maximum number of price points available.

The Offerors will be ranked in accordance with the criteria identified above.

D. FINAL RANKING AND AWARD

After any best and final offer process is conducted, PhilaPort will combine the evaluation committee's final technical scores and the final price scores of responsive proposals submitted by responsible Offerors. PhilaPort will rank responsible Offerors according to the total overall score assigned to each in descending order. PhilaPort must select for contract negotiations the Offeror with the highest overall score. PhilaPort has the discretion to reject all proposals or cancel the request for proposals at any time prior to the time a contract is fully executed when it is in the best interests of the Commonwealth. The reasons for the rejection or cancellation shall be made part of the contract file.

If negotiations fail to proceed to an award of a contract, the negotiations will be terminated and PhilaPort will then begin negotiations with the next highest ranked responsive firm. This process will continue. PhilaPort reserves the right to reject all proposals that are submitted, cancel the project, and or rebid for the Services.

E. EXECUTION OF THE AGREEMENT

Promptly after the completion of negotiations, a contract may be awarded by PhilaPort, and the Contract shall be executed by PhilaPort and the successful Offeror. As PhilaPort is an independent agency of the Commonwealth, for the purposes and within the meaning of the Act of October 15, 1980 (P.L. 950, No. 164), known as the Commonwealth Attorneys Act, all Contracts must be approved as to form and legality by the Office of the Attorney General.

Any Offeror not lawfully released from the submitted Proposal, and which refuses to execute a contract in accordance with the submitted Proposal shall be liable to PhilaPort for its damages, and, if security has been deposited with the Proposal, the amount of the security as liquidated damages.

By executing the Contract, the Offeror represents that the Offeror has (i) reviewed the RFP thoroughly, (ii) if appropriate, visited the Site to become familiar with local conditions that may in any manner affect the price, progress or performance of the Services, (iii) become familiar with applicable Federal, Commonwealth and City laws, ordinances, rules and regulations that may in

any manner effect cost, progress or performance of the Project, (iv) studied and carefully reviewed the Contract Documents, (v) received all information and documents necessary to allow the Offeror to perform the Services required under the Contract Documents, and (vi) reviewed and hereby acknowledges the provisions of the Philadelphia Regional Port Authority Act (55 Pa. C.S.A., § 697.1 *et seq.*) relevant to the performance of Services. The Offeror shall not at any time after the execution of the Contract make any claims whatsoever alleging insufficient data or incorrectly assumed conditions, nor shall the Offeror claim any misunderstanding with regard to the nature, conditions, or character of the work to be done under the Project.

III. PROPOSALS

For Proposals to be considered for award Offerors must obtain a Vendor Management Unit Number. To register for the Vendor Management Unit Number visit <https://pasupplierportal.state.pa.us/> or call 717-346-2676.

Offerors are to provide sufficient information for PhilaPort to evaluate the proposals to determine responsiveness and ability to meet the specifications for the Project. Offeror is to use the Form for Submission of Proposal (Appendix A) in addition to the following: Technical Proposal, Price Proposal (Appendix C), and Diversity and Inclusion (HUB) Commitments (Appendix D).

The Technical Proposal is limited to **sixteen (16) pages**, resumes and project execution schedule excluded.

Proposals shall be clearly marked identifying each section.

References to financial terms in the Part II Technical Proposal shall be grounds for rejection of the proposal as being non-responsive.

Finally, submit copies of the addenda acknowledgements.

At a minimum, the Proposals should include the following:

A. PART I: PROPOSAL CERTIFICATION, ADDENDA, AND LEGAL DISCLOSURES

The Form for Submission of Proposal, appearing as **Appendix A** shall be completely filled and executed. Offeror should include signed Addenda Acknowledgements, as well as Legal Disclosures in this Part.

B. PART II: TECHNICAL PROPOSAL

1. Understanding, Methodology, Team Experience Narrative:

- a. The Offeror shall demonstrate it has a clear understanding of the Services required as set forth in Section I., C. of this RFP. This Part should not exceed four (4) pages.

- b. The Offeror shall demonstrate the ability of their team to provide the Services to PhilaPort on a prompt and efficient basis. The Offeror shall present a clear methodology and work plan to achieve the goals of the project. This Part should not exceed four (4) pages.
- c. Describe the relevant experience of the firm, any proposed subcontractors, individual professionals or key contractor representatives on the firm/team with respect to the required areas of expertise experience with similar projects. This Part should not exceed eight (8) pages.
 - i. List similar assignments, matters, or projects completed in terms of their nature, size and scope and the individual professionals or other contractor representatives who are part of the proposed team, using the following format for each project.
 - ii. Provide references for similar projects. Include project name and description, contact name, email address, phone number.
 - iii. Contractor shall submit with their proposal a schematic of the work area, showing required exclusionary work limits, including a narrative describing proposed storage area needs and work hours.
- d. Offeror shall also submit with their proposal a specification sheet for the fabric to be utilized for the replacement membrane, showing at a minimum the performance criteria items listed in Section I, C. of the RFP document.

2. Project Execution Schedule

The schedule shall contain all pertinent milestones and shall be developed with a start milestone of “Notice to Proceed Issued” and timeframes referenced generically (i.e. days, weeks, months, thereafter). The project schedule shall contain sufficient detail to demonstrate that the Offeror understands the scope of services and required activities, including but not limited to, permitting, mobilization, securing the work perimeter, preparation activities, submittals and shop drawings, procurement and delivery of key components, installation, clean-up and demobilization. Milestones and durations in the project execution schedule shall become part of the successful Offerors contract and shall be the basis for the assessment of liquidated damages.

C. PART III: PRICE PROPOSAL

Submit a Price Proposal defined as the information sufficient for PhilaPort to price with an appropriate degree of accuracy the costs that will be incurred for the Services. Use the Form for Price Proposal attached as **Appendix C**.

D. PART IV: DIVERSITY

PhilaPort requires legally binding commitments to, and utilization of certified Minority, Women, LGBT, Veteran, and Service Disabled (collectively, “Historically Underutilized Business” or “HUB”) in the Proposals received in response to this RFP. Submit commitments for HUB participation in the format set forth in **Appendix D**.

E. SUBMISSION OF PROPOSALS

PhilaPort will be utilizing an e-Sourcing platform called Bonfire. Offerors must register with Bonfire to submit an electronic proposal with PhilaPort. Instructions and video tutorial can be found at:

- <https://support.gobonfire.com/hc/en-us/articles/360011135513-Vendor-Registration>.

and

- <https://support.gobonfire.com/hc/en-us/articles/203903356-Vendor-Registration-and-Submission>

Proposals must be submitted through the online Bonfire Portal at:

<https://PHILAPORT.bonfirehub.com>

Be sure to register well in advance of the proposal submission date and time. Submissions by other methods will not be accepted.

Offerors must use Internet Explorer 11, Microsoft Edge, Google Chrome, or Mozilla Firefox. JavaScript must be enabled. Browser cookies must be enabled. Ensure pop-up blockers are turned off to avoid any issues.

Respondents should contact Bonfire at Support@GoBonfire.com for technical questions related to submissions or visit Bonfire’s help forum at <https://bonfirehub.zendesk.com/hc>.

Submission materials should be prepared in the file formats listed under Requested Information for this opportunity in the Bonfire Portal. The maximum upload file size is 1000 MB. Documents should not be embedded within uploaded files, as the embedded files will not be accessible or evaluated.

The entire proposal submission should be uploaded into Bonfire. This includes:

Part I (Form for Submission of Proposal - Appendix A)

Part II (Technical Proposal)

Part III (Form for Price Proposal - Appendix C)

Part IV (Form for Submission of Diversity and Inclusion Participation- Appendix D)

Within one (1) business day of the proposal submission date, the original Form for Submission of Proposal (Appendix A), along with proposal security shall be delivered to:

Kate Bailey
PhilaPort
3460 North Delaware Avenue
2nd Floor
Philadelphia, PA 19134

F. PROPOSAL SECURITY

All proposals shall be accompanied by a certified bank treasurer's or cashier's check drawn in favor of the "Philadelphia Regional Port Authority" or "PhilaPort" in an amount equal to **ten percent (10%) of the gross amount of the Price Proposal**. A bid bond from a surety company authorized to do business in the Commonwealth is also acceptable.

G. CONTRACT SURETY

Within three (3) business days after receipt of the Contract, the successful Offeror, must:

1. Sign and return the Contract to Kate Bailey, PhilaPort, 3460 N. Delaware Avenue, Philadelphia, PA 19134; and
2. Sign and return payment and performance bonds, on a form acceptable to PhilaPort executed by a surety company or companies qualified to do business in Pennsylvania:
 - a. A performance bond at 100 percent of the contract amount, conditioned upon the faithful performance of the contract in accordance with the plans, specifications and conditions of the contract. Such bond shall be solely for the protection of PhilaPort. The performance bond shall remain in effect for at least twelve (12) months following the date of final acceptance of the Work.
 - b. A payment bond at 100 percent of the contract amount. Such bond shall be solely for the protection of claimants supplying labor or materials to the prime contractor to whom the contract was awarded, or to any of his subcontractors, in the prompt payment of all such material furnished or labor supplied or performed in the prosecution of the work. "Labor or materials" include public utility services and reasonable rentals of equipment, but only for the periods when the equipment rented is actually used at the site.; and

Sign and return all insurance certificates required by the General and/or Special Conditions to the Contract.

H. ADDITIONAL INSUREDS

The contractor selected for award shall be responsible for all claims, losses, causes of action, damages (including, but not limited to, damages to vehicles of Tenants or Subtenants customers stored/parked on the Premises), injury (including death). caused by and/or arising out of the membrane replacement activities at the Tioga Marine Terminal sustained by Tenants or Subtenants from the actions or omissions of the contractor in connection with the work being performed at the Tioga Marine Terminal, except for such claims, losses, causes of action, damages or injuries caused by the actions or omissions of Tenants or Subtenants.

Upon contract award, the contractor shall provide a certificate of insurance to PhilaPort, naming PhilaPort, the Commonwealth of Pennsylvania, and the tenants of any facilities affected by the Work as additional insureds, with limits consistent with the General Conditions as follows. The awarded contractor's insurance shall be primary to any other coverage available to PhilaPort, the Commonwealth of Pennsylvania, and their tenants. Any insurance maintained by PhilaPort will be excess and non-contributory.

Include in the description section of the certificate:

This COI is for all contracts entered into with the certificate holder. PhilaPort, Philadelphia Regional Port Authority, PRPA, the Commonwealth of Pennsylvania, and the tenants of any facilities affected by the Work their officers, employees, and agents are to be named as additional insureds on the General Liability insurance policy of the Contractor. In addition, an endorsement to the insurance policy shall be required stating that the coverage afforded PhilaPort, Philadelphia Regional Port Authority, PRPA, the Commonwealth of Pennsylvania, and the tenants of any facilities affected by the Work, and their officers, employees and agents as additional insureds will be primary and non-contributory to any coverage available to the Contractor.

Project # 23-059.1
RFP for Warehouse IV Membrane
Replacement at the Tioga Marine Terminal

Appendix A

Form for Submission of Proposal



**PROPOSAL FOR WAREHOUSE IV MEMBRANE REPLACEMENT AT THE TIOGA
MARINE TERMINAL**

The undersigned, _____ (“Offeror”), having familiarized itself and its team with the Services being requested in PhilaPort’s Request for Proposal (“RFP”) dated _____, 20__, hereby proposes to provide the requested Services in accordance with the standards applicable to its profession or occupation. Offeror hereby incorporates the terms set forth in Parts I through IV herein as part of its Proposal.

I. Offeror Responsiveness Section:

A. The Offeror certifies by its representative below that to the best of the representative’s knowledge, information and belief:

- i. Neither the Offeror nor the members of its team are under suspension or debarment by the Commonwealth or any governmental entity, instrumentality, or authority and, if this representation cannot be made, that Offeror agrees to submit, along with its Proposal, a written explanation of why such certification cannot be made and why the Contract should nonetheless be awarded to Offeror.
- ii. That as of the date of its execution of this Proposal, the Offeror has no tax liabilities or other Commonwealth obligations, or has filed a timely administrative or judicial appeal if such liabilities or obligations exist, or is subject to a duly approved deferred payment plan if such liabilities exist.
- iii. That the Offeror’s team possesses all required business, professional contracting and trade licenses required to provide the Services.
- iv. That the Offeror’s team possesses all the technical qualifications and resources, including equipment, personnel and financial resources, to provide the Services.

- v. (1) That the Bidder (and the labor force) participates at the time of bid submission in an approved Apprenticeship Program as defined in the General Conditions for each craft or trade of the labor force contemplated to perform the work, (2) that such Program is currently registered with the Pennsylvania Apprenticeship and Training Council and (3) that such Program has apprentices and trainees currently participating.
- vi. That the information provided in Offeror's Part IV in connection with PhilaPort's Diversity Inclusion Plan Forms is accurate and complete.

II. Offeror Responsibility Section:

A. The Offeror certifies by its representative below that to the best of the representative's knowledge, information and belief:

- i. Offeror's team has a satisfactory record of past contract performance and past compliance with applicable law that demonstrates a solid history of both technical competency and business integrity sufficient to justify receiving a Port PhilaPort contract.
- ii. Offeror's team possesses all qualifications, skills, resources, equipment personnel, financial resources and other required performance capabilities needed to successfully complete the prospective contract it is seeking to perform.
- iii. Offeror's team will comply with all relevant security requirements.
- iv. If applicable, Offeror's team will have sufficient personnel that possess Transportation Worker Identification Credentials to gain access and properly perform the Services.
- v. He will utilize labor enrolled in approved Apprenticeship Programs as defined in the General Conditions for the full duration of the contract Work.

B. The Offeror certifies by its representative below that the following responses to the questions posed to assist PhilaPort in its determination of Offeror Responsibility are true and correct:

1. Has the Offeror or any member of its team been suspended and/or debarred or voluntarily agreed not to submit a proposal in response to the RFP as a result of an action by any federal, state or local government agency or authority in the past three years?

Yes No

2. Has any officer, director, owner or managerial employee of the Offeror or any member of its team been convicted of a felony relating to construction, maintenance, service or repair contracting industries?

Yes No

3. Has the Offeror or any member of its team defaulted on any project in the past three years?

Yes No

4. Has the Offeror or any member of its team had any type of business, contracting or trade license revoked or suspended by any government agency or authority in the past three (3) years?

Yes No

5. Has the Offeror or any member of its team been found in violation of any other law relating to its contracting business, including, but not limited to antitrust laws, licensing laws, tax laws, wage or hour laws, environmental or safety* laws, by a final decision of a court or government agency authority in the past three (3) years?

Yes No

*For purposes of this question, violations of safety laws may be limited to serious or willful safety violations.

6. Has the Offeror or any member of its team been the subject of voluntary or involuntary bankruptcy proceedings at any time in the past three years?

Yes No

C. Offeror's Vendor Data Management Unit Number is: _____.

III. Offeror's Point of Contact Section:

Contact Information for the Offeror on this project (for purposes of affirming pricing, or providing information in response to inquiries, insurance information, diversity information, and the like):

Name: _____

Title: _____

Phone: _____

Email: _____

IV. Acknowledgment and Disclaimers Section:

Offeror should include in Part I, an acknowledgement of any addenda issued by PhilaPort.

It is understood that the right is reserved by PhilaPort to reject any or all proposals and to waive any informalities in the Proposal.

Submission of false or misleading information or statements in connection with this Certification shall render the Offeror ineligible to provide Services to PhilaPort and/or shall be considered a material breach of any contract entered and entitle PhilaPort to all applicable remedies available at law or in equity.

Failure to submit or fully complete the certifications required by this Proposal Form shall render the Offeror ineligible for the prospective contract.

Further, in the event Contractor fails to gain entry or cannot perform Work due to noncompliance, the Authority reserves the right to provide escorts to be billed to the Contractor with no increase in cost under the contract or terminate the contract for failure to perform.

V. Representation and Authorization Section:

By making this Proposal, Offeror and its representative understand, represent, acknowledge and certify:

- a) That the foregoing representations regarding the past performance and present qualifications of the undersigned Offeror and its team are true and correct;
- b) The Offeror by its representative has read and understands the terms and conditions of the RFP and this Proposal is made in accordance with those terms and conditions;
- c) The price(s) and amount of the Proposal have been arrived at independently and without consultation, communication, or agreement with any other contractor, Offeror or potential Offeror;
- d) Neither the price(s) contained in nor the total amount of the Proposal, nor the approximate price(s) or total amount, have been disclosed to any other firm or person who is a Offeror or potential Offeror, and they will not be disclosed prior to the deadline for submitting proposals;
- e) No attempt has been made or will be made to induce any firm or person to refrain from proposing in response to the RFP, or to submit a proposal higher than the Proposal, or to submit an intentionally high or noncompetitive proposal or other form of complementary proposal;

Project # 23-059.1
RFP for Warehouse IV Membrane
Replacement at the Tioga Marine Terminal

- f) The Proposal is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person;
- g) This Proposal has been completed by an authorized representative of the Offeror that the sufficient knowledge and information to address all matter addressed herein;
- h) If an award is made to the Offeror, the Offeror agrees that it intends to be legally bound to the contract that is formed between PhilaPort and the Offeror; and
- i) If an award is made to the Offeror, the Offeror will enter into and execute a contract based upon this Proposal, without delay, upon notice of award of contract.

[Signature pages to follow; select the page that is appropriate to Offeror's form of business organization.]

Project 23-059.1
[SIGNATURE PAGE FOR INDIVIDUAL OFFEROR]

Name of Offeror (Printed)

Signature of Individual

Trading and doing business as:

Business Address:

Tax Identification Number:

**If fictitious or trade name is employed in conduct of business, complete, by deletion as appropriate, the following statement:*

[Foregoing fictitious or trade name (has) (has not) been registered by the individual proprietorship under Pennsylvania Law.]

Project 23-059.1
[SIGNATURE PAGE FOR PARTNERSHIP OFFEROR]

Name of Partnership

Name of General Partner (Printed)

By: _____
(Signature of General Partner)

Witness: _____

Business Address:

Tax Identification Number:

The partners constituting the partnership herein named are:

Partner: _____

Address: _____

Partner: _____

Address: _____

Add additional lines for the names and addresses of additional Partners, if there are more than four Partners in the Partnership, by attaching an additional page or pages to this Proposal.

*If fictitious or trade name is employed by the partnership in conduct of its business, insert name here:

Next, complete, by deletion as appropriate, the following statement:

[Foregoing fictitious or trade name (has) (has not) been registered by the partnership under Pennsylvania Law.

Project 23-059.1
[SIGNATURE PAGE FOR CORPORATE OFFEROR]

Name of Corporation

Attest:

Signature of Secretary, Assistant Secretary
Treasurer, Assistant Treasurer or
other authorized representative**

By:

Signature of President, Vice President or
other authorized representative*

(Print Name of Representative)

(Print Name of Representative)

** If a representative other than the President or a Vice President of the Corporation signs this Proposal on its behalf, then attach a valid corporate resolution or other appropriate proof, dated prior to or as of the date of the Proposal, evidencing authority to execute this Proposal on behalf of the Corporation.*

*** If a representative other than the Secretary, an Assistant Secretary, the Treasurer or an Assistant Treasurer attests to the signature of the corporate representative, then attach a valid corporate resolution or other appropriate proof, dated prior to or as of the date of the Proposal, evidencing authority to attest to the execution of this Proposal on behalf of the Corporation.*

Business Address:

Tax Identification Number:

(1) Complete the following statement: The Corporation has been organized and is existing under laws of the State/Commonwealth of: _____.

(2) *If Corporation has been organized under laws of a State other than those of the Commonwealth of Pennsylvania, complete, by deletion as appropriate, the following statement:*
[The Corporation (has) (has not) been granted a certificate of authority to do business in the Commonwealth of Pennsylvania under applicable laws.]

(3) *If Corporation has been organized under laws other than those of the Commonwealth of Pennsylvania and has NOT been granted a certificate of authority, complete, by deletion as appropriate, the following statement:*

Project 23-059.1
[SIGNATURE PAGE FOR CORPORATE OFFEROR]

[The Corporation (has) (has not) applied for a certificate of authority to do business in the Commonwealth of Pennsylvania and (has) (has not) attached a copy of the pending application to this Proposal.]

Project 23-059.1
[SIGNATURE PAGE FOR LIMITED LIABILITY OFFEROR]

Name of Limited Liability Company

Attest:

By:

Signature of an Authorized Representative*

Signature of Authorized Representative**

(Print Name of Representative)

(Print Name of Representative)

** The individual attesting verifies and represents that the person whose signature is affixed to this Proposal on behalf of the Limited Liability Company (LLC) is duly authorized in accordance with the representations hereafter set forth.*

*** Check the box which applies to this Proposal:*

_____ *The Certificate of Organization provides that LLC is to be managed by managers, and this Proposal has been executed by a Manager fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Proposal or can be provided upon request within three (3) working days.*

_____ *The Certificate of Organization does not provide that LLC is to be managed by managers, and this Proposal has been executed by a Member fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Proposal or can be provided upon request within three (3) working days.*

_____ *This Proposal has been executed by a representative of the LLC who is not a Manager or a Member of the LLC, and instead who holds the office of _____ (insert title), and the execution of this Proposal is fully authorized by the Certificate, by the Operating Agreement and by Resolutions of the LLC. Copies of the relevant documents are provided with the Proposal or can be provided upon request within three (3) working days. The Offeror and the individuals signing and attesting to the execution of this document further represent that (1) execution of the Proposal is carrying on business in the usual way; (2) the LLC authorizes the execution of this Proposal even if execution and submission of this Proposal is not carrying on business in the usual way for the LLC; and (3) to the best of the individuals' information and belief, the Owner has no knowledge of the Member's or the Manager's lack of actual authority, or of any applicable and relevant restriction on his or her authority.*

Business Address:

Tax Identification Number:

Project 23-059.1
[SIGNATURE PAGE FOR LIMITED LIABILITY OFFEROR]

(1) Complete the following statement: The LLC has been organized and is existing under laws of the State/Commonwealth of _____.

(2) If the LLC has been organized under laws of a State other than those of the Commonwealth of Pennsylvania, complete, by deletion as appropriate, the following statement:

[The LLC (has) (has not) been granted a certificate of authority to do business in the Commonwealth of Pennsylvania under applicable laws.]

(3) If the LLC has been organized under laws other than those of the Commonwealth of Pennsylvania and has NOT been granted a certificate of authority, complete, by deletion as appropriate, the following statement:

[The LLC (has) (has not) applied for a certificate of authority to do business in the Commonwealth of Pennsylvania and (has) (has not) attached a copy of the pending application to this Proposal.]

Appendix B

Form of Agreement, General Conditions, and Prevailing Wage Rates

Form of Agreement



CONSTRUCTION AGREEMENT

DATE:

PROJECT #:

FUNDING SOURCE:

CONTRACT #:

PHILADELPHIA REGIONAL PORT AUTHORITY

3460 N. Delaware Avenue, 2nd Floor
Philadelphia Pennsylvania 19134

Attn: _____

("PhilaPort"), a body corporate and politic and an independent agency of the Commonwealth of Pennsylvania,

And

Attn: _____

(the "Contractor"), a _____ organized under the laws of the _____.

Article I. Project Description: _____ . This description of the Work to be performed is for informational purposes only and in all respects is subject to the Contract Documents.

Article II. The Work: The Work required to be performed by the Contractor under the Contract Documents is more specifically described in the Plans and Specifications set forth in Exhibit "A" and the Proposal or Bid set forth in Exhibit "B", which are attached and incorporated by reference as though fully set forth herein.

Article III. Contract Amount: The payment from PhilaPort for the services provided by the Contractor hereunder, inclusive of all expenses, is the sum of _____ Dollars (\$ _____) for the Work, including Alternates _____ awarded to the Contractor, and subject to adjustment for Unit Price quantities, for Change Orders and for other reasons as provided in the General Conditions. The Contractor guarantees Unit Prices as described in Exhibit "B" for the term of the Contract and warranty period.

Article IV. Term of Contract: This Contract shall have a term starting from the date of execution of this Contract by all parties and ending upon final completion of the Work. Liquidated damages as set forth in this Contract will accrue after _____ (____) consecutive calendar days from the date of the notice to proceed if substantial completion has not occurred. The Contractor agrees time is of the essence.

Article V. Terms and Conditions: The General Conditions set forth in Exhibit "A" are attached and incorporated by reference as though fully set forth herein.

Article VI. Contract Documents: The Contract Documents, attached as exhibits hereto, constitute a part of the Contract, and together with the Contract, constitute the entire agreement between the Authority and

the Contractor. The Contract documents, except any modifications issued after execution, are enumerated in order of precedence as follows: the Bidding Documents, attached hereto as Exhibit “A”, and any amendments thereto; the Proposal or Bid, attached hereto as Exhibit “B”, and any amendments thereto; the performance bond, attached hereto as Exhibit “C”, and any amendments thereto; and the payment bond, attached hereto as Exhibit “D”, and any amendments thereto, and documents required to be submitted with the Bid or during construction in connection with the Diversity Inclusion Plan. All of the documents identified in this Article are attached and incorporated in this Agreement though fully set forth herein.

[signature pages follow]

IN WITNESS WHEREOF, PhilaPort and Contractor have caused this Agreement to be executed the day and year first above written.

Contractor

PHILADELPHIA REGIONAL PORT
AUTHORITY (“PHILAPORT”)

By: _____
Name:
Title:
Date: _____

By: _____
Name: Jeff Theobald
Title: CEO & Executive Director
Date: _____

Approved as to Legality and Form:

Approved as to Budgetary Appropriateness &
Fiscal
Responsibility:

PHILADELPHIA REGIONAL PORT
AUTHORITY

PHILADELPHIA REGIONAL PORT
AUTHORITY

By: _____
Name: Colette A. Pete
Title: Chief Counsel
Date: _____

By: _____
Name: George Hutchinson
Title: Director of Finance
Date: _____

OFFICE OF ATTORNEY GENERAL

OFFICE OF THE BUDGET

By: _____
Name:
Title: Chief Deputy Attorney General
Date: _____

By: _____
Name:
Title: Comptroller
Date: _____

Exhibit A

Exhibit B

Exhibit C

Exhibit D

General Conditions

**GENERAL CONDITIONS OF
PHILADELPHIA REGIONAL PORT AUTHORITY
CONTRACTS
(Revised as of July 2, 2019)**

**INDEX TO THE GENERAL CONDITIONS OF
PHILADELPHIA REGIONAL PORT AUTHORITY CONTRACTS**

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**GENERAL CONDITIONS OF
PHILADELPHIA REGIONAL PORT AUTHORITY
CONSTRUCTION CONTRACTS**

I. Definitions:

A. The following terms and expressions used in the Contract Documents shall be defined and understood as follows:

“Agreement” shall mean the document executed by PhilaPort and the Contractor that incorporates the additional Contract Documents.

“City” shall mean the City of Philadelphia.

“Claim Settlement Conference” shall mean the dispute resolution process, as more particularly described in Article X.

“Commonwealth” shall mean the Commonwealth of Pennsylvania.

“Contract” shall mean the complete contractual understanding between PhilaPort and the Contractor. The Contract may also be referred to as the “Agreement.”

“Contract Documents” shall mean the documents described in Article VI of the Contract and otherwise identified in these General Conditions.

“Contractor” shall mean the party of the second part to the Contract.

“Contract Sum” shall mean the amount stated in Article III of the Contract for the payment to the Contractor.

“Contracting Officer” The Contracting Officer shall be the Procurement Director prior to the issuance of the notice to proceed. Subsequently, the Contracting Officer shall be the Chief Engineer of PhilaPort.

“Date of Completion” shall mean the date determined in accordance with the provisions of Article IV of the Agreement for the substantial completion of the Work.

“Day(s),” whether or not capitalized, shall mean the number of days, excluding the first and including the last day of such period. Whenever the last day of any such period shall fall on a Saturday or Sunday or on any day made a legal holiday by the laws of the Commonwealth or the United States, such day shall be omitted from the computation.

“Dispute Designee” shall mean the Chief Counsel of PhilaPort, or any deputy or substitute who may be so designated in writing by the Executive Director.

“Engineer” shall mean either the Chief Engineer of PhilaPort, or any successor or successors duly appointed in writing by the Chief Engineer, or any deputy or substitute who may be so designated, in writing, by the Executive Director or through a duly authorized representative within the scope of the particular duties assigned such representative. PhilaPort may also designate an outside design professional as the Professional to perform duties on behalf of the Engineer.

“Executive Director” shall mean the Executive Director of PhilaPort, or any deputy or substitute who may be so designated in writing by the Executive Director.

“FDR Meeting” shall mean a Field Dispute Review Meeting, as more particularly described in Article X.

“Inspector” shall mean the representative of the Engineer assigned to the inspection of the Work under the Contract.

“PhilaPort” shall mean the Philadelphia Regional Port Authority, also referred to as, “Owner” and “PRPA.”

“Plans” shall mean the general plans and designs accompanying the Specifications and such supplementary drawings as may be furnished from time to time.

“Professional” shall mean the Engineer unless designated otherwise.

“Project” shall mean the total of the Work to be performed under the Contract and any other separate prime contracts as so designated by PhilaPort.

“Samples” are physical examples furnished by the Contractor to illustrate materials, equipment or workmanship, and to establish standards by which the Work will be judged.

“Shop drawings” are drawings, diagrams, illustrations, schedules, performance charts, brochures, catalog data, and other data which are prepared by the Contractor or any Subcontractor, manufacturer, supplier or distributor, and which illustrate some portion of the Work.

“Site” shall mean the location where the construction or services will be performed or where the materials or equipment will be used pursuant to the Contract.

“Special Conditions” shall mean those special conditions which modify the General Conditions.

“Specifications” shall mean the written documentation accompanying the Plans, which set forth the Work to be performed and the methods to be used to perform the Work.

“Subcontractor” shall mean persons, firms, or corporations having a direct contract with the Contractor to perform a portion of the Work or to furnish materials or equipment.

“Substantial Completion” or “Substantially Complete” shall mean The time at which the Work

(or a specified part thereof) has progressed to the point where, in the opinion of Engineer, the Work (or a specified part thereof) is sufficiently complete, in accordance with the Contract Documents, so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended.

“Work” shall mean the subject matter of the Contract, i.e., the labor or service to be performed and/or the material and/or equipment to be supplied, delivered and/or installed as stated in Article II of the Contract or otherwise as described in the Contract Documents.

“Working Day” shall mean a calendar day except Saturday, Sunday, and any day made a legal holiday by the laws of the Commonwealth or the United States.

B. Wherever in the Specifications or the Plans the words “directed”, “required”, “permitted”, “ordered”, “designated”, “prescribed”, or words of similar meaning are used, it shall be understood that the direction, requirement, permission, order, designation, or prescription of the Engineer is intended, and similarly the words “approved”, “acceptable”, “satisfactory”, or words of similar meaning, shall mean approved by, or acceptable to, or satisfactory to the Engineer, subject in each case to the final determination of the Executive Director.

II. Contract Award & Contractor Responsibility:

A. PhilaPort’s Right to Award Separate Contracts:

PhilaPort reserves the right to award other contracts in connection with other portions of the Project under these or similar conditions of the Contract. When separate prime contracts are awarded for different portions of the Project, the “Contractor” in the Contract Documents in each case shall be the contractor who signs a separate prime contract.

B. Mutual Responsibility of Contractors:

1. If any part of the Contractor’s Work depends for proper execution or results upon the work of any other prime contractors or their subcontractors, the Contractor shall inspect and promptly report in writing to the Engineer and PhilaPort any apparent discrepancies or defects in such work that render it unsuitable for such proper execution and results. Failure of the Contractor to so inspect and report shall constitute an acceptance of the other prime contractors’ or their subcontractors’ work as fit and proper to receive the Contractor’s Work, except as to defects which may develop in the other prime contractors’ or their subcontractors’ work after the execution of the Contractor’s Work.
2. The Work shall be conducted so as not to interfere with the work of other contractors. If any part of the Contractor’s Work depends for proper execution or results upon work being done by other prime contractors or their subcontractors not under contract with the Contractor, the Contractor shall inspect and promptly report in writing to the Engineer and PhilaPort any interference, defects, or delays in the work done or being done by the other prime contractors or their subcontractors. In the event that any prime contractor shall not complete the various portions of the Project in general harmony, and another

prime contractor shall be caused damage or injury by the failure to so act in harmony, the prime contractor damaged or injured shall have the right to settle by agreement or arbitration such claim or disputes in accordance with the provisions of Section XI herein. PhilaPort, however, shall not be liable to any prime contractor for any increased costs or damages resulting from the defective work, interference, or delays of other prime contractors.

C. Cooperation with Other Contractors:

1. The Contractor shall cooperate with any other contractors on concurrent work that may be on or adjacent to the Contractor's Work, and shall afford reasonable facilities and access to them. Except as provided in Section XI, herein, the Engineer will decide any matters in dispute as to the performance of the Work, including access to the Site and priority of performance on either side of the division line between contiguous Contract sections.
2. The Contractor shall afford other prime contractors and their subcontractors reasonable opportunity for the introduction and storage of their materials and equipment and the execution of their work, and shall properly connect and coordinate the Contractor's Work with the work awarded by PhilaPort to other contractors.
3. Where any portion of the Work is done in combination with or affects in any way the progress of the work of other contractors, the Contractor shall cooperate with such contractors and shall perform the details of the Contract at such time and in such a manner that the Work and all other work may proceed without interruption. Where electrical, plumbing, heating, or mechanical equipment is installed under separate contracts, concurrently with construction contracts, the equipment contractors shall keep in close touch with the construction work; and the contractor for the main construction shall give the equipment contractors at least twenty-four (24) hours' notice, excepting Saturdays, Sundays, and those days made a legal holiday by the laws of the Commonwealth or the United States, of any intention to place concrete, do backfilling, or perform similar work affecting the installation of such equipment. The equipment contractors shall thereupon promptly furnish and install their equipment as required. Should the equipment contractors fail to do such work within a reasonable time after having been so notified, and the progress of the Work is thereby delayed, the Engineer shall have the right to order the installation work performed by another contractor and to deduct the cost thereof from any monies due under the equipment contract.

D. Execution of the Contract Documents:

By executing the Contract, the Contractor represents that the Contractor has visited the Site and by careful personal examination is satisfied as to the Contract Documents and the physical condition of the location where the Work is to be performed, and that the Contractor has correlated these personal observations with the requirements of the Contract Documents. The Contractor shall assume all risks resulting from the Contractor's reliance upon test data provided for reference only by PhilaPort as provided in Section 3.C of the Instructions to

Bidders, and the Contractor shall assume all risks resulting from any changes in the conditions of the Site which may occur during the progress of the Work except as provided in Section VIII.E herein.

E. Subcontracts:

1. The Contractor shall not assign the Contract or any part thereof, and the Contractor shall not assign any right to any monies to be paid to the Contractor under the Contract without the prior written consent of PhilaPort. The Contract as a whole shall not be sublet. No portion of the Work shall be sublet without the approval of the Engineer, and no Subcontractor shall be employed unless in the opinion of the Engineer the Subcontractor is reliable, responsible, and competent to perform the Work in compliance with the Contract Documents. All entities so employed shall be bound by the terms and provisions of the Contract, and neither the Contractor nor the Contractor's sureties will be relieved from the terms and conditions of the Contract or their duties or responsibilities under the same by reason of such employment.
2. The Contractor shall perform at least twenty percent (20%) of the total amount of the Work with the Contractor's own organization based upon the Contract Sum.
3. All Work performed for the Contractor by a Subcontractor shall be pursuant to an appropriate agreement between the Contractor and the Subcontractor (and, where appropriate, between Subcontractors and sub-subcontractors). All agreements between the Contractor and Subcontractors and between Subcontractors and sub-subcontractors for Work performed under the Contract shall be forwarded to PhilaPort for approval prior to the commencement of any Work by a Subcontractor or a sub-subcontractor and shall contain provisions, acceptable to PhilaPort, that:
 - a. preserve and protect the rights of PhilaPort, and the Engineer with respect to the Work to be performed under the subcontract so that the subcontracting thereof will not prejudice any such rights;
 - b. require that such Work be performed in accordance with the Contract Documents;
 - c. require submission to the Contractor of applications for payment under each subcontract to which the Contractor is a party, in reasonable time to enable the Contractor to apply for payment in accordance with Section XIV, herein;
 - d. require that all claims for additional costs, extensions of time or otherwise with respect to subcontracted portions of the Work shall be submitted to the Contractor (via any Subcontractor or sub-subcontractor where appropriate) in the time and manner provided in the Contract Documents for like claims by the Contractor against PhilaPort;
 - e. require that each Subcontractor to fully warrant and guarantee for the benefit of PhilaPort the effectiveness, fitness for the purpose intended, quality and

merchantability of any item provided and/or installed by such Subcontractor;

- f. require that the Subcontractor is without privity of contract to PhilaPort and that the Subcontractor agrees by signing the subcontract that the Subcontractor neither acquires nor intends to acquire any rights against PhilaPort pursuant to a third party beneficiary theory or any other theory; and
- g. obligate each Subcontractor (and sub-subcontractor) to specifically consent to all provisions of this Section II.E.

F. Contractor's Obligations:

The Work to be done under the Contract is indicated in detail in the Contract Documents. The Contractor shall furnish all labor, materials, plans, tools, and appliances necessary to complete the Work to the satisfaction of the Engineer in the manner and within the time required in the Contract Documents at the prices bid, agreed upon, and fixed therefore. If, at any time, the Contractor's methods, force, or equipment appear to the Engineer to be unsafe, insufficient, or inadequate for the proper performance of the provisions of the Contract, the Engineer may order the Contractor to make such changes as the Engineer may deem necessary, and the Contractor shall comply with such orders, but the failure of the Engineer to make such demands shall not relieve the Contractor of its obligations under the Contract Documents. The Contractor shall maintain an office where orders and instructions may be delivered, and shall give personal attention to the faithful performance of the Work. The Contractor shall employ a competent representative or superintendent who shall have full authority to receive and execute orders, and to supply such labor, tools, and materials as may be required for the proper performance of the Work. The Contractor shall be responsible to the Engineer and to PhilaPort and to all other Contractors for the acts and/or omissions of the Contractor's employees and Subcontractors, their agents and employees, and all other persons performing any of the Work under a contract with the Contractor. The Contractor, its agents and employees, shall act in an independent capacity and shall not act or be deemed to act as employees, officers, or agents of PhilaPort or the Commonwealth.

G. Supervision and Procedures:

1. The Contractor shall be solely responsible for all means, techniques, and portions of the Work to be performed under the Contract, whether by the Contractor, a Subcontractor or otherwise.
2. The Contractor shall provide continuous supervision of the Work by a duly authorized and competent superintendent. At the time that PhilaPort, or the Engineer acting on behalf of PhilaPort, issues the notice to proceed with the Work, the Contractor shall submit to PhilaPort the name and qualifications of a superintendent acceptable to PhilaPort. The Contractor shall not change the superintendent without the prior written approval of PhilaPort, and the Contractor must submit to PhilaPort, in writing, the justification for any such change, along with the name and qualifications of the individual whom the Contractor proposes to be the new superintendent.

3. PhilaPort may demand of the Contractor the dismissal of any person employed by the Contractor who, in the sole opinion of PhilaPort, is incompetent or guilty of misconduct.
4. PhilaPort may withhold any payments which are or may become due the Contractor or PhilaPort may suspend the Work at the expense of the Contractor, if the Contractor fails to comply with the provisions of this Section II.G.

H. Contractor Integrity:

1. The following terms used in this Section II.H shall be defined and understood as follows:
 - a. “Confidential” means information that is not public knowledge, or available to the public on request, disclosure of which would give an unfair, unethical, or illegal advantage to another desiring to contract with PhilaPort.
 - b. “Consent” means written permission by a duly authorized member or employee of PhilaPort, provided that where the material facts have been disclosed, in writing, by prequalification or contractual terms, PhilaPort shall be deemed to have consented by virtue of execution of the Contract.
 - c. “Financial Interest” means ownership of more than a five percent (5%) interest in any business; or holding a position as an officer, director, trustee, partner, employee, or the like, or holding any position of management.
 - d. “Gratuity” means any payment of more than nominal monetary value in the form of cash, travel, entertainment, gifts, meals, lodging, loans, subscriptions, advances, deposits of money, services, employment or contracts of any kind.
2. The Contractor shall maintain the highest standards of integrity in the performance of the Contract and shall take no action in violation of Federal or Commonwealth laws, regulations, or other requirements that govern contracting with the Commonwealth or PhilaPort.
3. The Contractor shall not disclose to others any confidential information gained by virtue of the Contract.
4. The Contractor shall not, in connection with the Contract or any other contract with PhilaPort or the Commonwealth, directly or indirectly, offer, confer, or agree to confer any pecuniary benefit on anyone as consideration for the decision, opinion, recommendation, vote, other exercise of discretion, or violation of a known legal duty by any member or employee of PhilaPort or the Commonwealth.
5. The Contractor shall not, in connection with the Contract or any other contract with PhilaPort or the Commonwealth, directly or indirectly, offer, give, or agree or promise to give to anyone any gratuity for the benefit of or at the direction or request of any member

or employee of PhilaPort or the Commonwealth.

6. Except with the consent of PhilaPort or the Commonwealth, neither the Contractor nor anyone in privity with the Contractor shall accept or agree to accept from, or give or agree to give to, any person, any gratuity from any person in connection with the performance of the Work under the Contract except as provided therein.
7. Except with the consent of PhilaPort, the Contractor shall not have a financial interest in any other contractor, Subcontractor providing services, labor, or materials for the Work.
8. The Contractor, upon being informed that any violation of this Section II.H has occurred or may occur, shall immediately notify PhilaPort in writing.
9. The Contractor, by execution of the Contract and by the submission of any bills or invoices for payment pursuant thereto, certifies and represents that the Contractor has not violated any of these provisions.
10. The Contractor shall, upon request of PhilaPort or the Office of State Inspector General, reasonably and promptly make available to PhilaPort and that office and its representatives, for inspection and copying, all business and financial records of the Contractor of, concerning, and referring to the Contract or which are otherwise relevant to the enforcement of this Section II.H
11. For a violation of this Section II.H, PhilaPort may terminate the Contract and any other contract with the Contractor, claim liquidated damages in an amount equal to the value of anything received in breach of this Section II.H, claim damages for all expenses incurred in obtaining another contractor to complete performance under the Contract, and debar and suspend the Contractor from doing business with PhilaPort. These rights and remedies are cumulative, and the use or nonuse of any one shall not preclude the use of all or any other. These rights and remedies are in addition to those PhilaPort and/or the Commonwealth may have under law, statute, regulation or otherwise.

I. Offset of Tax Liability:

1. By executing the Contract, the Contractor:
 - a. Certifies that the Contractor has no outstanding tax liability to the Commonwealth;
 - b. Authorizes the Department of Revenue of the Commonwealth to release information related to its tax liability to PhilaPort and the Commonwealth's Department of General Services; and
 - c. Authorizes the Commonwealth and PhilaPort to set off any state and local tax liabilities of the Contractor or any of its subsidiaries, as well as any other amount

due to the Commonwealth from the Contractor, against any payment due to the Contractor under the Contract.

2. The certification of no outstanding tax liability is a material representation of fact upon which reliance is placed by PhilaPort in entering into the Contract. If it is later determined that the Contractor knowingly rendered an erroneous certification, PhilaPort may find the Contractor in default and terminate the Contract. Erroneous certification may also be grounds for the initiation of civil or criminal proceedings.

J. Commonwealth Audit:

1. The funds for the Contract are subject to audit by PhilaPort and other agencies and representatives of the Commonwealth in accordance with applicable laws and regulations. PhilaPort reserves the right to perform additional audits of a financial/compliance, economy/efficiency or program results nature, if deemed necessary.
2. The Contractor will submit to PhilaPort copies of any audit conducted by or at the request of the Contractor that involves the funds for the Contract.

K. Contractor Responsibility Provision:

1. By executing the Contract, the Contractor certifies that it is not currently under suspension or debarment by the Commonwealth, any other state or the federal government. The Contractor also acknowledges that if it is currently under suspension or debarment, its bid, in most instances, will not be accepted or considered.
2. If the Contractor enters into any subcontracts under the Contract with subcontractors who are currently suspended or debarred by the Commonwealth during the term of the Contract or any extensions or renewals thereof, PhilaPort shall have the right to require the Contractor to terminate such contracts.

L. Professional Services:

If the Professional is one other than the Engineer, at the time of execution of the agreement between PhilaPort and the Professional, PhilaPort may at PhilaPort's sole discretion require the Professional to give security for the full and faithful performance of such agreement by the Professional. Nothing herein creates any rights on the part of the Contractor or any other party.

M. Status and PhilaPort of the Engineer:

Unless otherwise delegated to the Professional, the Engineer shall have the status and authority as provided in this Section II.M. The Engineer shall have responsibility for the general supervision and direction of the Work, the interpretation of the Plans and Specifications, the ordering of additions to or deductions from the Work, and the

determination of procedure. The Engineer shall give all orders and directions contemplated under the Contract Documents. The actions of the Engineer shall in no way alter the status of the Contractor as an independent contractor, and no action of the Engineer shall be interpreted as making the Contractor an agent of PhilaPort. The Engineer shall in all cases determine the amount, quality, acceptability, and fitness of the Work to be paid for under the Contract, and shall have the authority to reject all Work which does not conform to the Contract Documents. The Engineer shall determine all other questions that may arise in relation to the execution of the Work. The Engineer shall adjust and decide any differences or conflicts that may arise between the Contractor and other contractors for concurrent work.

N. Third-party Actions

1. The Agreement between PhilaPort and the Contractor and the other Contract Documents, and information supplied to the Contractor in connection with this Project, including any deficiency, inconsistency or misrepresentation therein, shall not create any cause of action in favor of or against any third party, whether such action may be for breach of contract, breach of warranty, negligence, misrepresentation or other tort, or otherwise including claims against the architect and its consultants, and their employees, officers and representatives.
2. Except when Contractor is required to pursue a claim directly against another contractor or a Subcontractor as directed elsewhere in the Contract Documents, Contractor agrees that any and all claims, disputes or legal actions filed or pursued by the Contractor in connection with this Contract, the Contract Documents or the Project, shall be filed or pursued only against PhilaPort under the claims procedures set forth in the General Conditions and that no claims or legal actions will be filed or pursued against PhilaPort's design professionals, administrators, officers, directors, their employees, representatives, or consultants, or their employees or representatives. Contractor agrees that this paragraph shall survive termination of this agreement. Contractor also agrees that this paragraph shall be binding whether or not it claims prior breach of this contract and that this paragraph shall apply to any and all claims including breach of contract, breach of warranty, negligence, misrepresentation or other tort, or otherwise.
3. If any portion of the Contract Documents shall be in conflict with any other portion after the application of the rules of interpretation set forth elsewhere in these General Conditions, the various documents comprising the Contract Documents shall govern in this order and sequence, with the document listed first controlling over the document listed thereafter:
 - a. Amendments and other Modifications issued subsequent to the execution of this Agreement
 - b. Agreement or Contract between PhilaPort and the Contractor

- c. Addenda issued prior to execution of the Contract
- d. General Conditions, as amended and modified
- e. Notice or Notices to Proceed
- f. General or Special Requirements
- g. Plans and Specifications
- h. Instructions to Bidders
- i. Performance and Payment Bonds
- j. Other documents referenced in the Contract Documents or attached to another Contract Document and not specifically excluded as a Contract Document

Where two documents are of equal precedence, the document with the later date of execution shall control.

III. General Legal Compliance:

A. Laws and Ordinances:

The Contractor shall give all notices and comply with all applicable laws, ordinances, regulations, rules, and orders of any public authority bearing on the Work, as may be amended from time to time (“Applicable Laws”). If the Contractor observes that any of the Contract Documents are in conflict with any Applicable Laws in any respect, the Contractor shall promptly notify the Engineer in writing. If the Contractor performs any Work knowing it to be contrary to Applicable Laws, with or without such written notice to the Engineer, the Contractor shall assume full responsibility therefor and shall bear all costs attributable thereto.

B. Hours and Conditions of Employment:

The Contractor agrees to abide and be bound by the laws of the Commonwealth relating to and regulating the hours and conditions of employment by Acts of Assembly in such case made and provided.

C. Americans with Disabilities Act:

1. Pursuant to federal regulations promulgated under the authority of the Americans With Disabilities Act, 28 C.F.R. § 35.101 et seq., the Contractor understands and agrees that no individual with a disability shall, on the basis of the disability, be excluded from participation in the Contract or from activities provided for under the Contract. As a condition of accepting and executing the Contract, the Contractor agrees to comply with the “General Prohibitions Against Discrimination,” 28 C.F.R. § 35.130, and all other regulations promulgated under Title II of the Americans With Disabilities Act which are applicable to the benefits, services, programs, and activities provided by the Commonwealth through contracts with outside contractors.

2. The Contractor shall be responsible for and agrees to indemnify and hold harmless the Commonwealth and PhilaPort from all losses, damages, expenses, claims, demands, suits, and actions brought by any party against the Commonwealth or PhilaPort as a result of the Contractor's failure to comply with the provisions of this Section III.C.

D. Equal Employment Opportunities:

1. In accordance with Pa. Stat. Ann. tit. 55, § 697.16, the nondiscrimination and contract compliance plans used by PhilaPort are required to be the same as those used by the Commonwealth's Department of General Services.
2. During the term of the Contract, the Contractor agrees to comply with the following "nondiscrimination clause":
 - a. The Contractor shall not discriminate against any employee, applicant for employment, independent contractor, or any other person because of race, color, religious creed, ancestry, national origin, age, or sex. The Contractor shall take affirmative action to ensure that applicants are employed, and that employees or agents are treated during employment, without regard to their race, color, religious creed, ancestry, national origin, age, or sex. Such affirmative action shall include, but is not limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training. The Contractor shall post in conspicuous places, available to employees, agents, applicants for employment and other persons, a notice setting forth the provisions of this nondiscrimination clause.
 - b. The Contractor shall in advertisements or requests for employment placed by it or on its behalf state that all qualified applicants will receive consideration for employment without regard to race, color, religious creed, ancestry, national origin, age, or sex.
 - c. The Contractor shall send each labor union or workers' representative with which it has a collective bargaining agreement or other contract or understanding, a notice advising said labor union or workers' representative of its commitment to this nondiscrimination clause. Similar notice shall be sent to every other source of recruitment regularly utilized by the Contractor.
 - d. It shall be no defense to a finding of noncompliance with the Contract Compliance Regulations (the "Contract Compliance Regulations", 16 Pa. Code Chapter 49) issued by the Pennsylvania Human Relations Commission (the "Commission") or with the terms and provisions of this nondiscrimination clause that the Contractor had delegated some of its employment practices to any union, training program, or other source of recruitment which prevents it from meeting its obligations. However, if the evidence indicates that the Contractor was not on

notice of the third-party discrimination or made a good faith effort to correct such discrimination, such factor shall be considered in mitigation in determining appropriate sanctions.

- e. Where the practices of a union or any training program or other source of recruitment will result in the exclusion of minority group persons, so that the Contractor will be unable to meet its obligations under the Contract Compliance Regulations or pursuant to the terms and provisions of this nondiscrimination clause, the Contractor shall then employ and fill vacancies through other nondiscriminatory employment procedures.
- f. The Contractor shall comply with the Contract Compliance Regulations, which are incorporated herein by reference as if fully set forth herein, and with all laws prohibiting discrimination in hiring or employment opportunities. In the event of the Contractor's noncompliance with the terms and provisions of this nondiscrimination clause or with any such laws, the Contractor may, after hearing and adjudication, be terminated or suspended, in whole or in part, and the Contractor may be declared temporarily ineligible for other contracts with agencies of the Commonwealth, and such other sanctions may be imposed and remedies invoked as provided by the Contract Compliance Regulations.
- g. The Contractor shall furnish to PhilaPort and the Commission, all necessary employment documents and records and shall permit access by PhilaPort and the Commission to the Contractor's books, records, and accounts, for purposes of investigation to ascertain compliance with the provisions of the Contract Compliance Regulations. If the Contractor does not possess documents or records reflecting the necessary information requested, it shall furnish such information on reporting forms supplied by PhilaPort or the Commission.
- h. The Contractor shall actively recruit minority Subcontractors and Subcontractors with substantial minority representation among their employees. The Contractor shall comply with its obligations under the Diversity Inclusion Plan, including specifically the periodic submittal of forms and reports.
- i. The Contractor shall include the provisions of this nondiscrimination clause in every subcontract, so that such provisions will be binding upon each Subcontractor.
- j. The terms used in this nondiscrimination clause shall have the same meanings as used in the Contract Compliance Regulations.
- k. The Contractor's obligations under this nondiscrimination clause are limited to the Contractor's facilities within the Commonwealth, or, where the Contract is for the purchase of goods manufactured outside of the Commonwealth, the facilities at which such goods are actually produced.

3. It is hereby agreed that any failure to comply with the foregoing nondiscrimination clause shall constitute a substantial breach of the Contract. It is further agreed that in the event PhilaPort, or the Commission if the Commission assumes sole responsibility for the determination of the compliance status of the Contractor, determines after a hearing and adjudication that the Contractor or any Subcontractor or any person acting on behalf of the Contractor or of any Subcontractor hereunder, has failed to comply with any of the provisions of the foregoing nondiscrimination clause, PhilaPort or the Commission may provide for the fixed-period suspension of the remaining obligations under the Contract pending compliance by the Contractor with the Contract Compliance Regulations; provided that the failure of the Contractor to comply with the adjudication within the fixed-period stated in the order, but not fewer than thirty (30) days, shall be considered a material breach and shall give the Commonwealth the right to bring an action against the Contractor and the surety on the Contractor's bond to recover expenses incurred in re-letting the Contract, delay in performance, or other verifiable damages.

E. Prevailing Wages:

1. The Contractor and all Subcontractors are subject to the provisions, duties, obligations, remedies, and penalties of the Pennsylvania Prevailing Wage Act, Pa. Stat. Ann. tit. 43, §165-1 et seq., which is incorporated herein by reference as if fully set forth herein. Not less than the prevailing minimum wages as determined by the Secretary of Labor and Industry of the Commonwealth shall be paid to all workers employed by the Contractor and all Subcontractors.
2. The Contractor and all Subcontractors of whatever tier agree to employ or utilize labor that participates in an approved Apprenticeship Program as defined herein for each craft or trade of the labor force performing the Work. An approved Apprenticeship Program is one that is registered at the time the Contract is executed with the Pennsylvania Apprenticeship and Training Council. Apprentices employed on the Project shall be those participating in the approved Apprenticeship Program and whose training and employment are in full compliance with the provisions of the Act dated July 14, 1961 (P.L. 604), as amended, known as "The Apprenticeship and Training Act" and the rules and regulations issued pursuant thereto. Any employee using the tools of a craft who does not qualify as an apprentice within the provisions shall be paid the minimum wage predetermined for journeymen in that particular craft and/or classification
3. Should the Contract Documents include information on Davis-Bacon wage rates, Contractor shall pay the higher of the Pennsylvania Prevailing Wage rate and the Davis-Bacon wage rate.

F. Preferential Hiring of Veterans:

The Contractor, Subcontractor(s) or any person in either of their behalf, shall carry out the provisions of Section 1 of the Act of August 1, 1975 (P.L. 233, No. 92), 51 Pa. C.S.A. §7106, which concerns the giving of preferences to honorably discharged persons who have served in the armed forces of the U.S. during any war or armed conflict, in determining who shall be

employed on public works, which act in part provides:

Whenever the Commonwealth issues specifications for the construction, alteration or repair of any public works, such specifications shall include a provision under which the contractors and subcontractors shall agree to give a preferential rating similar to that given by the Commonwealth to any soldier making application for employment upon such public works.

G. Environmental Laws:

1. The Contractor shall be required to comply strictly with the provisions of all Federal, Commonwealth, multi-state, local, county, municipal or any other governmental law, directive, statute, ordinance, rule, regulation, or standard, common law or any judgment, order, writ, notice, decree, permit, license, approval, consent or injunction, relating to any environmental, health or safety matters or conditions, hazardous materials, pollution or protection of the environment, as amended, including, but not limited to: the Act to Prevent Pollution from Ships, 33 U.S.C. § 1901 et seq.; the Clean Air Act, 42 U.S.C. § 7401 et seq.; the Coastal Zone Management Act of 1972, 16 U.S.C. § 1451 et seq.; the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 42 U.S.C. § 9601 et seq.; the Emergency Planning and Community Right-To-Know Act of 1986, 42 U.S.C. § 11001 et seq.; the Federal Water Pollution Control Act, 33 U.S.C. § 1251 et seq.; the Noise Control Act of 1972, 42 U.S.C. § 4901 et seq.; the Ocean Dumping Ban Act of 1988, 33 U.S.C. §§ 1414b, 1414c; the Public Health Service Act, 42 U.S.C. §§ 300f - 300j-26; the Toxic Substances Control Act, 15 U.S.C. § 2601 et seq.; the Air Pollution Control Act, 35 P.S. § 4001 et seq.; the Boiler and Unfired Pressure Vessel Law, 35, P.S. § 1331 et seq.; the Building Energy Conservation Act, 35 P.S. § 7201 et seq.; the Clean Streams Law, 35 P.S. § 691.1 et seq.; the Dam Safety Act, 32 P.S. § 693.1 et seq.; the Fire and Panic Act, 35 P.S. § 1221 et seq.; the Hazardous Sites Cleanup Act, 35 P.S. § 6020.101 et seq.; the Municipal Waste Planning, Recycling and Waste Reduction Act, 53 P.S. § 4000.101 et seq.; the Pennsylvania State Police Code (Fire Marshal Code), 37 Pa. Code Chapters 11, 13; the Storage Tank and Spill Prevention Act, 35 P.S. § 6021 et seq.; the Pennsylvania Sewage Facilities Act, 35 P.S. § 750.1 et seq.; the Storm Water Management Act, 32 P.S. § 680.1 et seq.; the Worker and Community Right to Know Act 35 P.S. § 7301 et seq.; and the Air Management Code, Philadelphia, Pa., Code § 3-101 et seq. and applicable provisions of local fire codes.
2. If the Contractor must undertake additional Work due to the enactment of new or the amendment of existing statutes, rules or regulations occurring after the submission of the Contractor's bid, PhilaPort shall issue a change order setting forth the additional Work that must be undertaken, which shall not invalidate the Contract. The cost of such a change order shall be determined in accordance with Section VIII.E herein, provided, however, that such additional costs to undertake Work not specified in the invitation for bids shall not be approved unless written authorization is given the Contractor prior to the undertaking of such additional Work.

3. PhilaPort shall not be responsible for any asbestos, PCBs, petroleum, hazardous waste, radioactive materials, or other toxic materials uncovered or revealed at the Site which were brought to the Site by the Contractor, any Subcontractor, anyone else for whom the Contractor is responsible, or any other person.

H. Taxes:

The Contractor shall pay all sales, mercantile, consumer, use, service, and other similar taxes which are required by Applicable Laws for the Work or portions thereof provided by the Contractor. The Contractor is required to pay Pennsylvania Sales and Use Taxes and may claim an exemption only for some construction materials. The Contractor shall pay all Federal Excise Taxes if due.

I. Permits and Licenses:

The Contractor shall obtain all permits and licenses required by Federal, State, and local laws, ordinances, and regulations which are applicable to the Contractor and the Work, unless otherwise specifically directed; and the Contractor shall pay all necessary fees, costs, or expenses incurred in obtaining such permits and licenses including, but not limited to, building permits, water permits, air permits and certificates of occupancy. In addition, the Contractor will be required to pay the fee where a service is rendered or materials, supplies, or equipment is provided.

J. Maintenance of Waterways:

1. In and around navigable waterways, the Work shall be carried on in full compliance with applicable requirements of the United States Department of Defense, Coast Guard, the Philadelphia Department of Commerce, and any other governmental agency having jurisdiction. Movement of boats and vessels of all kinds shall be maintained unless interference is permitted otherwise by the United States Department of Defense and the Navigation Commission for the Delaware River and its Navigable Tributaries, and any other governmental agency having jurisdiction, and then only within the limits and times specified. Should the Contractor, during the progress of the Work, sink or lose any material, plant, machinery, etc., which may be dangerous to or obstruct navigation, the Contractor shall forthwith recover and remove the same. The Contractor shall give immediate notice to the proper authorities of such obstruction, and, if required, shall, under the directions of said authorities, mark or buoy such obstructions until the same are removed.
2. Upon the completion of the Work affecting waterways of any character, all equipment shall be removed, and material deposited in such waterways shall also be removed unless otherwise ordered or permitted, so as to leave an unobstructed channel of not less than the

same width and depth and with the banks, retaining structures, or wharves in a condition at least equal to that existing before the beginning of the Work.

IV. Specific Legal Requirements:

A. Assignment of Antitrust Claims:

The Contractor and PhilaPort recognize that in actual economic practice, overcharges by the Contractor's Subcontractors resulting from violations of State or Federal antitrust laws are in fact borne by PhilaPort. As part of the consideration for the award of the Contract, and intending to be legally bound, the Contractor assigns to PhilaPort all right, title and interest in and to any claims the Contractor now has or may hereafter acquire under State or Federal antitrust laws relating to the goods or services which are provided under the Contract.

B. Accidents:

The Contractor shall be deemed and considered an independent contractor with respect to the Work, and shall assume all risks and responsibility for casualties of every description in connection with the Work. The Contractor shall have charge of the Work until completion and acceptance, and shall alone be liable and responsible for any accidents to persons and any loss or damage to property, buildings, or adjacent work that may occur as a consequence of or during the progress of the Work, whether such damage or accident is due to the negligence of the Contractor's servants, agents, employees, or whether such damage or accident is due to the inherent nature of the Work. It is not the intention of this Section IV.B or of anything herein provided to confer a third party beneficiary right of action upon any person whatsoever and nothing hereinbefore or hereinafter set forth shall be construed so as to confer upon any person other than PhilaPort a right of action either under the Contract or in any manner whatsoever.

C. Indemnification:

The Contractor shall indemnify, defend, and hold harmless PhilaPort, the agent of PhilaPort acting as Construction Manager, the Commonwealth, and the tenants of any facilities affected by the Work, and their officers, employees, and agents, from and against any and all losses, costs (including litigation costs and counsel fees), claims, suits, actions, damages, liability, and expenses in connection with loss of life, bodily injury, personal injury, or damage to tangible property to the extent occasioned wholly or in part by the Contractor's act or omission or the act or omission of the Contractor's agents, contractors (including subcontractors and suppliers), officers, employees, or servants pursuant to the Contract.

D. Intellectual Property:

As part of the consideration for the award of the Contract, the Contractor agrees to assign to PhilaPort all of its rights, title, and interest in its inventions, patents, patent applications, copyrights, ideas, improvements, trade secrets, know-how, technical data, drawings and manufacturing information (the "Intellectual Property") which arise out of or relate to the Work, Plans, or Specifications, but only insofar as such have been prepared for the purposes of the Project. The Contractor shall promptly disclose the Intellectual Property to PhilaPort, and shall keep confidential the Intellectual Property which is not publicly known. Upon request by PhilaPort, the Contractor shall take all actions, including execution of documents, to assist PhilaPort in documenting, recording, registering, perfecting, or otherwise securing, maintaining, and enforcing the Intellectual Property rights, title and interest. Upon request by PhilaPort, the Contractor shall promptly deliver to PhilaPort all documents or other tangible materials which comprise or embody the Intellectual Property.

E. Patented Appliances, Products or Processes:

To the fullest extent permitted by law, the Contractor agrees to indemnify, defend, and hold harmless PhilaPort, all its members, officers, and employees from all suits and actions of every name, nature, and description brought against them, or any of them, for or on account of the use of patented appliances, products, processes, constructions, designs, or methods, or the infringement of any patent, trademark, or copyright, and the Contractor shall pay all royalties, charges, and penalties which may become due or payable by reason of such use or infringement. Prior to the issuance of the final estimate, upon request by the Engineer, the Contractor shall submit evidence of the full payment of such royalties, charges, and penalties, or in lieu thereof the Contractor shall give such security, approved by PhilaPort's legal counsel, as may in the opinion of the Engineer be necessary to indemnify and hold harmless PhilaPort, all its members, officers, and employees as aforesaid.

F. No Estoppel or Waiver of Legal Rights:

Neither PhilaPort nor the Engineer shall be precluded or estopped by the approved applications for payment or payments made or given by any of them or by any of their agents or employees, under any provision or provisions herein, at any time, either before or after the completion and acceptance of the Work and payment thereof, from showing the true and correct amount and character of the Work performed by the Contractor; nor from showing at any time, that any such approved applications for payment or payments are untrue or incorrectly made in any particular; or that the Work or any part thereof does not conform to the Contract Documents. PhilaPort shall have the right to reject the whole or any part of the aforesaid Work should the said approved applications for payment or payments be found or be known to be inconsistent with the terms of the Contract Documents, or otherwise improperly given; and PhilaPort shall not be precluded or estopped, notwithstanding any such approved applications for payment or payments, from demanding and recovering from the Contractor or the surety or both such damages as PhilaPort may sustain by reason of the failure to comply with the terms of the Contract Documents, or on account of any overpayments made. Neither the acceptance by PhilaPort or the Engineer or any of their

agents or employees, nor any certificate approved for payment of money, nor any payments for, nor acceptance of the whole or any part of the Work by PhilaPort, nor any extension of time, nor any position taken by PhilaPort or its employees, shall operate as a waiver of any portion of the Contract or any power herein reserved by PhilaPort or any right to damages; nor shall any waiver of any breach of the Contract be held to be a waiver of any other subsequent breach.

G. Legal Relations and Responsibilities:

1. The Contract is not to be construed as being made for the benefit of any person or political subdivision not a party to the Contract, nor shall the Contract be construed to authorize any person or political subdivision not a party to the Contract to maintain any lawsuit hereunder, nor shall the Contract be construed to constitute the basis for the maintenance of any lawsuit by any person, other than as provided in Section IV(B) herein, or political subdivision not a party hereto.
2. The Contractor acknowledges that PhilaPort, as an agency of the Commonwealth, enjoys sovereign immunity as provided in Section 18 of the Philadelphia Regional Port Authority Act, 55 P.S. §697.18.

H. Unauthorized Acts:

Any act of an PhilaPort representative, official, agent, or employee, that is not within the scope of that person's authority or employment as delineated in the Contract Documents, shall not be binding on PhilaPort nor shall it be deemed to be a defense by the Contractor for the breach of any of the conditions and provisions of the Contract.

I. Successors and Assigns:

The Contract shall be binding on the parties hereto, their heirs, executors, administrators, successors, and assigns, but it may not be assigned by the Contractor without the prior written consent of PhilaPort.

J. Governing Law:

The Contract shall be governed by and construed and enforced in accordance with the laws of the Commonwealth of Pennsylvania, without giving effect to the principles of conflicts of law thereof.

V. Standards of Review & Project Compliance:

A. Sketch Drawings:

If the Contractor requires sleeves and openings for the Work in any deck, concrete slab or wall, the Contractor shall furnish to PhilaPort and all other prime contractors involved a complete set of location sketch drawings in triplicate showing size and shape of openings. Each prime contractor shall be responsible for reviewing the drawings in order that there will be no interference and/or conflict in their respective portions of the Work. When this review is finalized, the Contractor shall submit these drawings to PhilaPort and the Engineer in a final workable form.

B. Chases and Openings:

1. The contractor for general construction will construct or have built into building walls, partitions, and floors all such chases and openings as are required. Each prime contractor will be responsible to see that the chases and openings affecting their work are installed in accordance with the Plans submitted to the contractor for general construction.
2. All construction pertaining to the cutting of chases and openings shall be done to the entire satisfaction of PhilaPort and the Engineer. Should the cutting of such chases and openings be required after construction of walls, partitions, floors or other work are completed, PhilaPort may require such work to be performed in a manner so as to result in unmarred work even to the extent of requiring the removal and rebuilding of walls, partitions, and other work, all of which shall be at the sole cost and expense of the responsible prime contractor.

C. Shop Drawings and Samples:

1. The Contractor shall submit all necessary shop drawings or catalog data to the Engineer in accordance with a priority schedule established by the Engineer.
2. When drafting is required, transparent reproductions of shop drawings (one of each drawing) shall be submitted by the Contractor during the checking period prior to the required submittal and within the time period which is established in the Contract Documents, in order to enable the Engineer to make corrections in pencil, reproduce them for the Engineer's records, and return for correction the original shop drawing tracings. The Contractor shall include in the Contractor's submittal one line print of each transparency for the Engineer to keep as a record. Until shop drawings have received the Engineer's approval as being in compliance with the Contract Documents, the Contractor shall resubmit them in the manner last marked for correction. When shop drawings are noted "Approved" for compliance with the Contract Documents by the Engineer, the Contractor shall have ten (10) sets of final shop drawings or catalog data printed and furnished to the Engineer. Where no special drafting is involved, such as cuts of standard equipment, catalog cuts, and other matter so printed in quantity, the printed matter may be submitted instead of the transparencies.
3. The Contractor shall review, stamp with approval and submit, with reasonable promptness in an orderly sequence so as to cause no delay in the Work or in the work of

any other contractor, all shop drawings and samples required by the Contract Documents or required subsequently by the Engineer for modifications. Shop drawings and samples shall be properly identified as specified, or in such manner as the Engineer may require. If the shop drawings show variations from the Contract Documents because of standard shop practice or other reason, the Contractor shall make specific mention of such variations on the shop drawings and in the Contractor's letter of submission, in order that, if accepted, suitable action may be taken for proper adjustment by way of increase or decrease in the Contract Sum; otherwise, the Contractor will not be relieved of the responsibility for executing the Work in complete conformity with the Contract even though the shop drawings, samples or catalog data have been approved.

4. By approving and submitting shop drawings and samples, the Contractor thereby represents that the Contractor has determined and verified all applicable field measurements, field construction criteria, materials, catalog numbers and similar data, or will do so, and that the Contractor has checked and coordinated each shop drawing and sample with the requirements of the Work and the Contract Documents.
5. The Engineer will review and approve shop drawings and samples with reasonable promptness, but the Engineer's review and approval is only for conformance with the design concept of the Project and with the information given in the Contract Documents. The Engineer's approval of a separate item shall not indicate approval of an assembly in which the item functions.
6. The Contractor shall make any corrections required by the Engineer and shall resubmit the required number of corrected copies of shop drawings or new samples until approved, which resubmission shall be acted upon by the Engineer with reasonable promptness. When resubmitting shop drawings, the Contractor shall direct specific attention to any revisions made, other than the corrections requested by the Engineer on previous submissions, by noting such revisions on the resubmitted shop drawings.
7. The Engineer's approval of shop drawings or samples shall not relieve the Contractor of responsibility for any deviation from the requirements of the Contract Documents, unless the Contractor has informed the Engineer in writing of such deviation at the time of submission, has noted the deviation on the shop drawings, and the Engineer and PhilaPort have given written approval of the specific deviation; nor shall the Engineer's approval relieve the Contractor from responsibility for errors or omissions in the shop drawings or samples.
8. No portion of the Work requiring a shop drawing or sample submission shall be commenced until the submission has been approved by the Engineer. Any Work commenced by the Contractor prior to final approval of the shop drawings and/or samples by the Engineer shall be performed by the Contractor at the Contractor's own risk.

D. Plans and Specifications:

1. The Plans, with all notes thereon, and the Specifications are intended to be correlative and of equal force and effect. However, if a discrepancy arises between them, the more stringent standard shall apply. The Plans give general dimensions and sizes, and such details as are required to cover special features. Figures shall have preference over scale in reading dimensions. The Plans and Specifications are intended to provide a standard of quality and quantity. The Contractor is required to field verify all dimensions, sizes, quantities, etc. prior to beginning Work.
2. The organization of the Specifications into divisions, sections and articles, and the arrangement of drawings shall not control the Contractor in dividing the Work among any Subcontractors or in establishing the extent of the Work to be performed by any trade. The thorough and complete coordination of all aspects of the Project is the responsibility of the Contractor.
3. Where the Work is shown in complete detail on only a portion of a drawing, or there is an indication of continuation the remainder being shown in outline, the Work drawn out in detail shall be understood to apply to other like portions of the Work. On all Work of a remodeling nature or installation within present buildings, the actual situation at the Site controls any information given which may affect the quantity, size and quality of materials required for a satisfactorily completed Contract, whether or not such information is indicated on the Plans or within the Specifications.
4. The Contractor shall maintain at the Site for PhilaPort and the use of the Engineer one (1) copy of all Plans, Specifications, bulletins, addenda, approved shop drawings, catalog data, manufacturers' operating and maintenance instructions, certificates, warranties, guarantees and other operating and maintenance data, change orders, and other modifications, including as-built drawings (to be printed on mylar), in good order and marked daily by the Contractor to record all approved changes made during the Work. These shall be turned over to the Engineer by the Contractor at the time of the Substantial Completion of the Contract for the purpose of assembling and correlating said material for use by PhilaPort.

E. Copies Furnished and Ownership of the Contract Documents:

1. Unless otherwise provided in the Contract Documents, the Contractor will be furnished, free of charge by PhilaPort (or the Engineer acting on behalf of PhilaPort), one (1) complete set of Plans and Specifications if such are needed for the Work. If additional sets are required, PhilaPort (or the Engineer, at the direction of PhilaPort) shall be reimbursed by the Contractor for the cost of providing the additional sets.
2. All Plans, Specifications and copies thereof furnished by PhilaPort or the Engineer are and shall remain the property of PhilaPort. They are not to be used on any other project, and with the exception of one (1) set for each party to the Contract, are to be returned at the completion of the Work to PhilaPort within thirty (30) days of PhilaPort's request for such documents.

3. The Contractor expressly agrees and acknowledges that the Engineer and PhilaPort will not be responsible for the acts or omissions of any contractor under the Project, or any Subcontractor, or any of their agents or employees, or any other persons performing any of the Work under the Project.
4. If corrective work or drawings are required of the Engineer due to defective or nonconforming work by the Contractor, the cost for additional professional services shall be borne by the Contractor, provided that the Engineer submits those costs to PhilaPort and the Contractor within thirty (30) days after the completion of said additional services. PhilaPort shall review for approval the corrective work and/or drawings which are prepared by the Engineer in order to determine that the corrective work and/or drawings fall within the original scope of the Contract.

F. Standards of Quality:

1. Where trade names, catalog numbers and manufacturers of material or equipment are specified in the Contract Documents, except where specific requirements are noted, they are mentioned therein for the purpose of establishing a standard of quality, performance, and appearance, and for establishing a standard of competitive bidding. Should the Contractor desire to deliver or install material or equipment other than that which is specified, the Contractor shall certify that the proposed substitute material or the equipment is equal in quality, performance and appearance to that identified in the Specifications, and the Contractor shall submit to the Engineer and PhilaPort, subsequent to the award of the Contract, a request to deliver or install such material or equipment. The Contractor's request shall include a comprehensive description of the proposed substituted material or equipment, including engineering, construction, dimension and performance data, along with a statement of cost involved. Within thirty (30) days after receipt of the Contractor's request, the Engineer, with the approval of PhilaPort, shall render a written determination to the Contractor which shall be final and conclusive. If the Contractor shall refuse or fail to proceed as directed by PhilaPort, PhilaPort may declare the Contractor in default.
2. The Contractor shall be responsible for any and all costs incurred as a result of any substitution. If the cost of the substituted item is less than the specified item, PhilaPort is entitled to a credit for the difference between the cost of the substituted item and the cost of the item specified.

G. Quantities are Approximate:

When quantities of the various classes of the Work to be done and materials to be furnished under the Contract are stated, they are estimated and approximate. When stated in the Proposal they are given only for the purpose of comparing the bids on a uniform basis. PhilaPort does not guarantee that the amount stated will correspond to the actual amounts that are eventually comprised in the Work, and no claim for damages, for anticipated profit, or for loss of profit, will be allowed the Contractor in the event of a disagreement with the final estimate of the Work completed. PhilaPort reserves the right to increase or decrease the

quantities or to entirely omit any of the items as contained in the Proposal, to the extent found necessary by the Engineer.

H. Methods to be Approved:

Before commencing the Work, the Contractor shall, when required by the Engineer, submit for approval the proposed methods of performing the Work, including maintaining travel, underpinning, bulkheading, shoring, sinking foundations, handling spoils, lighting, maintaining structures, street surfaces, and drainage, and all other branches of operations. Such approval is reserved in order to safeguard PhilaPort's interest, but it will in no way relieve the Contractor of the obligation or responsibility for the safe and proper conduct of the Work.

I. Completeness of Data:

The term "structures" as used in the Contract shall apply to all surface, subsurface and overhead structures of whatever character within the zone of influence of the Work, including buildings situated in or adjacent to the excavation. Where these structures are shown or indicated on the Plans, the information given is in accordance with the best information in the possession of PhilaPort, but is approximate only. The data is not warranted to be either complete or correct, and the Contractor shall assume all risks resulting from the conditions differing from the approximations shown.

J. Lines and Grades; City Datum:

Vertical dimensions are given in United States standard feet and fractions thereof. Unless otherwise stated, elevations preceded by a plus ("+") or a minus ("-") sign refer respectively to distances above or below the established City Datum, which is two and one quarter (2.25) feet above mean high water on the Delaware River at Chestnut Street, Philadelphia. Dimensions locating buildings and structures shall be verified and checked in the field by the Contractor before proceeding with construction details affected thereby. Any of the Work improperly done without lines, levels or instructions shall be removed and replaced by the Contractor at the Contractor's own expense. Failure to do so in the sole judgment of the Engineer may be considered by PhilaPort as a violation of the Contract.

K. As-Built Documents:

At the time of Substantial Completion, as such term is defined in Section XVI herein, the Contractor shall provide to the Engineer one set of all as-built drawings, and six copies of each shop drawing, catalog data, manufacturers' operating and maintenance instructions, certificates, warranties, written guarantees and related documents required by the Contract Documents. In addition, the Contractor shall supply electronic copies of each as-built drawings in Auto Cad latest version and .PDF.

If any portion of the Work is designed by the Contractor (for example, sprinkler calculations) the engineer of record performing such work shall issue a letter of certification indicating that

the work as installed meets the design intent, is in compliance with applicable codes and that it is approved by said engineer.

VI. Insurance:

A. Contractor's Insurance:

1. The Contractor shall, at its sole cost and expense, procure and maintain in full force and effect, covering the performance of the Work, the types of insurance specified in this Section VI.A. The insurance shall be procured from reputable insurers, acceptable to PhilaPort and authorized to do business in the Commonwealth. The insurance required, except the Professional Liability Insurance, shall be written on an "occurrence" basis and not a "claims-made" basis. In no event shall Work be performed pursuant to the Contract until the required evidence of insurance has been furnished and approved to PhilaPort. If the Contractor fails to obtain or maintain the required insurance, PhilaPort shall have the right to treat such failure as a material breach of the Contract and to exercise all appropriate rights and remedies. The Contractor shall provide for at least thirty (30) days' prior written notice to be given to PhilaPort in the event coverage is materially changed, cancelled or non-renewed.
2. PhilaPort, the Commonwealth, and the tenants of any facilities affected by the Work, their officers, employees, and agents are to be named as additional insureds on the General Liability Insurance policy of the Contractor. In addition, an endorsement to the insurance policy is required stating that the coverage afforded PhilaPort, the Commonwealth, and the tenants of any facilities affected by the Work, and their officers, employees, and agents as additional insureds will be primary to any coverage available to the Contractor.
3. The amount of insurance required by this Section VI.A is as follows:
 - a) Workers Compensation and Employers Liability and/or Harbor Worker's Compensation Act, the Jones Act or other Maritime Employer's Liability Act:
 1. Workers Compensation: Statutory limits.
 2. Employers Liability: \$500,000 each accident - bodily injury by accident; \$500,000 each employee - bodily injury by disease; and \$500,000 policy limit - bodily injury by disease.
 3. Other States' coverage and Pennsylvania endorsement.
 - b) General Liability Insurance:
 1. Limit of Liability: \$1,000,000 per occurrence combined single limit for bodily injury and property damage; \$1,000,000 personal and advertising injury; and \$2,000,000 general aggregate.

2. Coverage: Premises operations; blanket contractual liability; personal injury liability (employee exclusion deleted); products and completed operations; independent contractors; employees and volunteers as additional insureds; cross liability; and broad form property damage (including completed operations)

c) Automobile Liability:

1. Limit of Liability: \$1,000,000 per occurrence combined single limit for bodily injury and property damage liability.
2. Coverage: Owner, non-owned and hired vehicles.

d) Professional Liability Insurance (if required):

1. Professional Liability Insurance for projects that involve design services, including, but not limited to, design/build contracts.
2. Limit of Liability: \$1,000,000 with a deductible not to exceed \$25,000.
3. Coverage: Errors and omissions.
4. Coverage for occurrences happening during the performance of the Work shall be maintained in full force and effect under the insurance policy or “tail” coverage for a period of at least two (2) years after completion of the Work.

e) Pollution Liability Insurance at a minimum of \$1,000,000 per occurrence with an aggregate of \$2,000,000.

4. Certificates of insurance evidencing the required coverages shall be submitted to PhilaPort’s Insurance Department at least ten (10) days before work on site is begun. This ten (10) day requirement for advance documentation of coverage may be waived in situations where such waiver will benefit PhilaPort, but under no circumstances shall the Contractor actually begin Work without providing the required evidence of insurance. PhilaPort reserves the right to require the Contractor to furnish certified copies of the original policies of all insurance required under the Contract Documents at any time upon ten (10) days’ prior written notice to the Contractor.
5. It is expressly understood and agreed that the furnishing of insurance pursuant to this Section VI.A shall in no way limit the liability or responsibilities and obligations of the Contractor as provided in the Contract Documents.
6. Where applicable, all insurance shall provide coverage for work being performed within fifty (50) feet of a railroad.

B. Contractor's Liability Insurance:

1. The Contractor's certificate of insurance for general liability shall contain the following statement: "The risks covered in this policy include all risks inherent in performing demolition work, including but not limited to the following: explosion, collapse, and underground hazards."
2. The Contractor's certificate of insurance for workmen's compensation shall contain the following statement: "All workers performing demolition work under this contract are covered under the classification for demolition workers."
3. The Contractor's and the Subcontractors' liability insurance shall include adequate protection against the special hazard of blasting in the amount of at least three hundred thousand dollars (\$300,000).

VII. Safety:

A. Safety of Persons and Property:

1. The Contractor shall take all necessary precautions for the safety of, and shall provide all reasonable protection to prevent damage, injury or loss to:
 - a. all employees on the Site, and all other persons who may be affected by the Work;
 - b. the Work, whether in storage on or off the Site, under the care, custody or control of the Contractor or any Subcontractors or sub-subcontractors; and
 - c. other property at the Site or adjacent thereto which may be affected by the Work, including trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of the Work.
2. All damages or loss to any property referred to in Sections VII.A.1.b and c caused in whole or in part by the Contractor, any Subcontractor, any sub-subcontractor, or anyone directly or indirectly employed by any of them or by anyone for whose acts any of them may be liable, shall be remedied by the Contractor, except damage or loss attributable to faulty Plans or Specifications or to the acts or omissions of PhilaPort or Engineer or anyone employed by either of them or for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor.
3. The Contractor is responsible for safety. The Contractor shall submit a site specific safety plan. The Contractor shall comply with all applicable, laws, ordinances, rules, regulations and orders of any public authority having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss. The Contractor shall erect

and maintain as required by existing conditions and progress of the Work, until the acceptance of the completion of the Contractor's portion of the Project, all reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations and notifying owners and users of adjacent utilities.

4. If and when the use of explosives and other hazardous materials or equipment is necessary for the prosecution of the Work, the Contractor shall observe the utmost care, performing such Work with experienced workers and in accordance with all Federal, Commonwealth, City and institutional regulations, so as not to endanger life or property. Rock encountered within a minimum of five (5) feet of pipe lines or buildings shall be removed without blasting. All explosives shall be stored in a secure and safe manner, in strict conformity with all Commonwealth and City regulations and all such storage shall be marked clearly, "Dangerous-Explosives" and shall be in the care of competent watch people at all times.
5. Prior to the initiation of any work on site, the Contractor shall designate a responsible member of the Contractor's organization at the Site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated in writing by the Contractor to PhilaPort and the Professional.
6. The Contractor shall not load or permit any part of the Work to be loaded so as to endanger the safety of the Work.

B. Safety Precautions and Programs:

The Contractor shall be responsible for initiating, maintaining and supervising all Federal, Commonwealth and City safety precautions and programs required on the Site during the term of the Contract.

C. Emergencies:

In any emergency affecting the safety of persons or property, the Contractor shall act, at the Contractor's discretion, to prevent threatened damage, injury or loss. Any additional compensation or extension of time claimed by the Contractor on account of emergency work shall be determined as provided in Sections VIII.E through I herein.

D. Access to Fire Hydrants and Fire Alarm Boxes:

The Contractor must comply with all applicable fire codes and regulations. Fire hydrants shall be left at all times clear of obstructions and readily accessible for fire apparatus and no material or other obstructions shall be placed within fifteen (15) feet of a fire hydrant. Fire alarm boxes shall be supported and protected and maintained so as to be readily accessible and open to view. Excavations shall be decked or bridged, where necessary, to permit the safe passage of fire apparatus and to give access to fire hydrants and to adjacent buildings for the extinguishing of fires. Where necessary, branch pipes shall be extended from the nozzles

of the fire hydrants for convenient attachment to the fire engines. The pipes connecting the fire hydrants to the mains shall be protected from freezing, and the fire hydrants (particularly the high pressure type) shall, where necessary, be braced or tied to the connecting pipes to prevent movement under water pressure.

E. Safety and Sanitary Provisions:

The Contractor shall provide means and appliances and shall enforce suitable rules for the safe performance of the Work and for the safety and health of workers. The completed portions of the Work shall be kept clean and in a sanitary condition. The Contractor shall provide and maintain properly secluded sanitary facilities, in accordance with existing Federal, Commonwealth and City regulations, for the exclusive use of workers. When directed by PhilaPort, the Contractor shall dismantle and remove these facilities.

F. Danger Signals:

The Contractor, at the Contractor's own expense, shall erect and maintain all necessary warning buoys, barricades, red lanterns, and danger signals as required by the applicable laws and regulations. The lights shall be kept burning from sunset until sunrise, and necessary watchpersons shall be provided for the safety of the public. The Contractor shall observe such rules relative to signals and safeguards as the police regulations, harbor and other regulations, laws, and ordinances require.

VIII. Contract Time and Change Orders:

A. Contract Time:

1. Time is an essential element and of the essence of the Contract. Unless otherwise specifically provided in the Contract Documents, or authorized in writing by PhilaPort or the Engineer, the Contractor shall begin the Work within ten (10) Working Days from the date of notice to proceed, and shall complete all of the Work under the Contract on or before the date determined in accordance with the Agreement.
2. The Contractor will not be required to proceed with the Work, if, for any reason for which the Contractor is not responsible, the Work cannot be commenced within three (3) months from the date of execution of the Contract, and in such case, at the request of the Contractor, the Contract shall be declared null and void. This shall not apply to contracts, the beginning of which is dependent upon the progress of other contracts, where this condition is plainly indicated by PhilaPort in the Contract Documents or in another order written by PhilaPort.
3. Should PhilaPort cause any delay in the completion of the Contract, by failure to give possession of the Site, by changes in the Plans and Specifications, or by requiring for any cause the suspension of the Work, the Contractor will be entitled to a reasonable extension of the time specified for the completion of the Work. Any claim arising from

such delay must be made in writing to the Engineer immediately upon the occurrence of the delay, and the Engineer will determine what allowance, if any, shall be made, but no additional compensation for consequential damages arising from such delay will be allowed. The time allowed for any delay will be added to and will correspondingly extend the Date of Completion.

4. For a contract whose Date of Completion is on or before a specified number of calendar days, no allowance will be made for non-Working Days or delays due to unfavorable weather, to the removal, relocation or fulfillment of other requirements by utilities, or to the failure to obtain material and equipment.
5. For a contract whose Date of Completion is on or before a specified number of Working Days, allowances will be made for days or portions of days, in increments of one-quarter day, for conditions entirely beyond the control of the Contractor. An allowance shall be made for unsuitable weather necessitating a suspension of the Work or other unfavorable conditions when the operation which controls the progress of the Work is suspended. A record of the Working Days shall be kept by PhilaPort; and this record shall be available to the Contractor on request. The Contract time shall start with the first Working Day after the date of the notice to proceed and the scheduled Date of Completion shall be that established by the specified number of Working Days plus the allowances.
6. Notwithstanding the above provisions of this Section VIII, the Contractor will not be liable or responsible for delays or damage to the Work caused by acts of God, acts of public enemy, acts of Government, quarantine restrictions, general strikes throughout the trade, or freight embargoes not caused or participated in by the Contractor.

B. Liquidated Damages:

1. **Delay in completion of the Work.** The Contractor acknowledges and agrees that PhilaPort will incur substantial damages if the Work is not performed in accordance with the requirements of this Agreement. The parties agree that it would be extremely difficult and impractical under the presently known and anticipated facts and circumstances to ascertain and fix actual damages that PhilaPort would incur under these circumstances, and, accordingly, the parties agree that PhilaPort's remedy shall be to recover from the Contractor as liquidated damages, and not as a penalty the Contract Sum multiplied by 0.005 for each and every calendar day that the Work remains incomplete. The liquidated damages identified in this Section relate solely to the Contractor's delay in completing the Work in accordance with the requirements of this Agreement and not to other breaches, actions or omissions of the Contractor. The liquidated damages identified in this Section shall not limit PhilaPort's remedies for other breaches, actions, or omissions of the Contractor, including termination for failure to complete the Work.
2. **Failure to meet Diversity Inclusion participation levels.** The Contractor acknowledges that the diversity and inclusion commitments submitted as part of its bid were an integral part of its bid and contracting requirements. The Contractor and agrees that PhilaPort will incur substantial damages to its efforts to promote diversity and inclusion if the

commitment levels for the Work are not achieved in accordance with the requirements of this Agreement. The parties agree that it would be extremely difficult and impractical under the presently known and anticipated facts and circumstances to ascertain and fix actual damages that PhilaPort would incur under these circumstances, and, accordingly, the parties agree that PhilaPort's remedy shall be to recover from the Contractor as liquidated damages, and not as a penalty the dollar value of the participation committed multiplied by 0.10. The liquidated damages identified in this Section relate solely to the Contractor's failure to meet its commitment of diversity and inclusion in accordance with the requirements of this Agreement and not to other breaches, actions or omissions of the Contractor. The liquidated damages identified in this Section shall not limit PhilaPort's remedies for other breaches, actions, or omissions of the Contractor, including termination for failure to complete the Work.

C. Progress Schedule:

1. Immediately upon receipt of notice of the award of the Contract, the contractor for general construction on the Project shall furnish to each separate prime contractor within seven (7) days a schedule for the proposed prosecution of the Work under the Contract. Thereafter, each separate prime contractor shall submit to the contractor for general construction within fourteen (14) days after receipt of notice of the award of the Contract, a schedule for the proposed prosecution of the Work under their respective contracts. The contractor for general construction shall then submit to the Engineer and PhilaPort within twenty-one (21) days after receipt of notice of the award of the Contract, a complete set of progress schedule signed by all prime contractors indicating their approval, and showing in detail to the satisfaction of the Engineer and PhilaPort, the proposed coordinated dates for the performance of each phase of work under each contract on the Project. The date of notice from the Engineer to proceed with the Work will be the actual start date of the Contract. The time period from the date of the notice from the Engineer to proceed with the Work to the commencement of on-site Work is part of the time period of the Contract, and is for the purpose of performing all off-site Work including the preparation by the Contractor of all documents required by PhilaPort. No extensions of time will be granted to the Contractor for the time period commencing with the notice from the Engineer to proceed with the Work and ending with the commencement of on-site Work. In the event that PhilaPort, for any period after the commencement of on-site Work, grants an extension of time for sixty (60) days or more to the Contractor, the Contractor shall prepare a revised progress schedule and obtain the signatures of all prime contractors indicating their approval, and shall forward the revised progress schedule to the Engineer within twenty (20) days from the approval of the extension. In no event will the granting of an extension of time to any contractor under the Project automatically entitle any other prime contractor to an extension of time. In the event that the Contractor is the only contractor under the Project, the Contractor shall submit a progress schedule to the Engineer and PhilaPort within ten (10) days of receipt of notice of the award of the Contract.
2. The Contractor is to routinely update the schedule to accurately reflect the work that has

been performed as well as keep the future tasks on schedule with the completion date. The project schedule should be submitted to PhilaPort at least on a monthly basis.

3. The Contractor shall complete portions of the Work in such order of time as may be stated in the Specifications or as required in the progress charts as approved by all prime contractors and PhilaPort. PhilaPort may require the Contractor, at no additional cost to PhilaPort, to supply additional forces, equipment, tools and materials and/or provide for an increase in working hours, and/or increase the number of Working days per week in order to keep up with the progress chart. If the Contractor shall refuse or fail to proceed as directed by PhilaPort, PhilaPort may find the Contractor in breach of the Contract and/or declare the Contractor in default.
4. PhilaPort shall have the right to use or occupy any completed or partially completed portions of the Work, whether or not the time may have expired for completing the entire Work or said portions of the Work, but such use or occupancy shall not be deemed an acceptance of the Work so taken or used, or any portion thereof. Prior, however, to such use or occupancy, PhilaPort shall inspect the Work to be occupied to determine if it is in conformity with the Contract, and any subsequent damage thereto due solely to the use and occupancy of the completed portion, will not be the responsibility of the Contractor.

D. Progress Meetings:

Progress meetings may be held as often as required by the Engineer and must be attended by the Contractor and his representatives who are authorized to make decisions and representations affecting the progress of the Work on the Project. The dates and time of progress meetings will be given to all concerned parties and these conferences shall be attended whether or not a particular contractor may be affected. A failure to attend shall be construed to be a violation of the contract.

E. Change Orders:

1. If changes in the design of any portion of the Work or the requirements of the Specifications are deemed necessary by the Engineer in order to carry out and complete more fully the Work agreed to be performed under the Contract, the Engineer may order alterations to or changes in the Work covered by the Contract Documents, and the Contractor shall comply with such orders. All such changes in the Work shall be authorized by change order. If such changes increase the cost of the Work to the Contractor, additional compensation will be allowed by PhilaPort. If such changes diminish the cost of the Work to the Contractor, the amount of such diminution shall be deducted by PhilaPort in its sole discretion. No consequential loss of profit on account of changes or of the Work not executed will be allowed the Contractor, but the Contractor may be entitled to an extension of time on this account.
2. A change order is a written order to the Contractor, signed by PhilaPort and issued after the execution of the Contract, authorizing a change in the Work or an adjustment in the Contract Sum or the Date of Completion. The Contract Sum and the Date of Completion

may be changed only by a change order.

3. The cost or credit to PhilaPort resulting from a change in the Work shall be determined in one or more of the following ways in accordance with the current administrative procedures of PhilaPort, at the option of PhilaPort:
 - a. by unit prices stated in the Proposal, Specifications, or from prices agreed upon in the breakdown sheet;
 - b. by a detailed cost breakdown properly itemized, the breakdown shall include size, quantity, type, etc. and may include a maximum of fifteen percent (15%) markup to labor costs for overhead and profit and a maximum of ten percent (10%) markup to material costs for overhead and profit; or
 - c. if neither method set forth in Sections VIII.E.3.a and b are utilized after good faith negotiations, PhilaPort may direct the Contractor to proceed with the Work involved on a force account basis for which payment shall be made as provided in Section VIII.I herein.
4. If unit prices are stated in the Contract Documents or subsequently agreed upon, and if the quantities originally contemplated are so changed in a proposed change order that application of the agreed unit price to the quantities of Work proposed will create a hardship on PhilaPort or the Contractor, the applicable unit prices shall be equitably adjusted by a change order to prevent such hardship.
5. If the Contractor claims that additional cost or time is involved because of:
 - a. any written interpretation issued;
 - b. any order issued by the Engineer to stop the Work, provided that the Contractor was not at fault; or
 - c. any written order for a minor change in the Work;

then, pursuant to Section VIII.F herein, the Contractor shall make such claims for additional cost or time and PhilaPort shall determine if such claims are appropriate.

6. Upon the issuance of a change order, the Contractor shall proceed to perform the Work in accordance with the Contract Documents, even if the amount of additional payment or credit or adjustment in the Contract Sum or the extent of any change in the Date of Completion, if any, resulting from such Work has not yet been determined and even if there is a disagreement between PhilaPort and the Contractor as to whether the Contractor is entitled to additional payment or an extension of time for performing such Work.

7. Should concealed conditions be encountered which are unascertainable from the Contract Documents, visits to the Site and reasonable investigation, and which are at variance with the conditions indicated by the Contract Documents; or should there be encountered unknown physical conditions below the surface of the ground of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract; the Contract Sum shall be equitably adjusted by a change order upon claim by either party made within seven (7) Working Days after the first observance of the conditions. No adjustment shall be made to the Contract Sum, however, for concealed conditions encountered during the cutting and patching of the Work.

F. Claims for Additional Cost or Time:

1. If the Contractor wishes to make a claim for an increase in the Contract Sum or an extension in the Date of Completion, the Contractor shall give PhilaPort written notice thereof in accordance with the requirements of Section X.A herein, but in no case more than thirty (30) days after the occurrence of the event giving rise to such claim. This notice shall be given by the Contractor before proceeding to execute the Work, except in an emergency endangering life or property, in which case the Contractor shall proceed in accordance with Section VII.C herein. No such claim shall be valid unless so made. If PhilaPort and the Contractor cannot agree on the amount of the adjustment in the Contract Sum or the Date of Completion, it shall be determined by PhilaPort. Any determination to change the Contract Sum or Date of Completion resulting from such claim, shall be authorized by a change order.
2. No claims for increased costs, charges, expenses, or damages of any kind, unless otherwise provided herein, shall be made by the Contractor against PhilaPort for any delays or hindrances from any cause whatsoever, including but not limited to strikes, walkouts or work stoppages during the progress of any portion of the Work; provided, however, that PhilaPort, in its discretion, may compensate the Contractor for any such delays by extending the Date of Completion, which extension shall constitute the exclusive remedy between the parties.

G. Minor Changes in the Work:

PhilaPort may order minor changes in the Work not involving an adjustment in the Contract Sum or an extension of the Date of Completion and not inconsistent with the intent of the Contract Documents. Such changes may be effected by written field order as provided in Section VIII.H herein or by other written order. Such changes shall be binding on PhilaPort and the Contractor.

H. Field Orders:

After an interpretation of the Contract Documents by the Engineer, PhilaPort may issue

written field orders consistent with the Contract Documents without changing the Contract Sum or Date of Completion. The Contractor shall carry out such field orders promptly.

I. Force Account:

1. Payment under Force Account will be for the actual and necessary direct cost of the Work in accordance with the orders of the Engineer, and in addition thereto the percentage of such cost hereafter stated. "Actual and necessary direct cost" shall be deemed to include the following:
 - a. For contracts for Goods and Materials only, the actual and necessary direct cost of the work done under Force Account as noted above, ten percent (10%) will be added to the actual expenditure in Work.
 - b. For Service contracts and Construction contracts, the actual and necessary direct cost shall be:
 1. The actual expenditure for labor for the time actually engaged in the Work, including the distributed cost of foremen in direct charge of such labor, insurance, taxes, and other payments applicable to such labor.
 2. The actual expenditure for materials used by or incorporated in the Work.
 3. A reasonable hourly, weekly or monthly rental as applicable, as determined by the Engineer, for use of motor trucks and special equipment such as power-operated shovels, cranes, drills, paving breakers, etc. (but not including small hand tools or company provided vehicles), at a rate not to exceed the current local rate charged for the type of equipment used, for the time that such equipment is required on the Site for the performance of Force Account work exclusively. The rental price shall be for the equipment provided on the Site and shall include transportation to and from the Site, fuel, power, lubricants, operating tools, repairs, insurance, depreciation, replacements, and the sharpening of drills and other tools required to keep them in the best working condition.
2. To the actual and necessary direct cost of the Work done under Force Account as noted above, fifteen percent (15%) will be added to the expenditure for labor as set forth in Section VIII.I.1.b.1 above and ten percent (10%) will be added to the expenditure for materials as set forth in Section VIII.I.1.b.2 above. No additions will be allowed to the rental of trucks and special equipment as set forth in Section VIII.I.1.b.3 above. These percentages, and the rental price for equipment furnished, shall be deemed to cover the cost of heat, light, use and upkeep of small hand tools, administration, engineering, superintendence, all loss, damage, risk, and expenses incidental to the Work and profit. The Contractor shall have no claim in excess of the above, such payments being in full compensation for the performance of the Work and the furnishing of such materials and for all expenses in connection therewith and incidental thereto.

3. Should the Contractor sublet any portion of the Work to be executed under Force Account with the approval of PhilaPort, payment for that portion will be computed as the actual and necessary direct cost as defined above, exclusive of any profit to the Subcontractor, plus the percentages allowed, plus five percent (5%) of the total paid to the Subcontractor.
4. The Contractor shall submit daily a statement in duplicate of the Work done on a Force Account basis within twenty-four (24) hours of the time the Work is done, and representatives of PhilaPort and the Contractor shall make daily comparison of the actual and necessary direct costs incurred, as given therein. After correction, if necessary, this comparison shall be signed by each and filed with the Engineer and the Contractor. The Contractor shall submit to the Engineer monthly, prior to each current estimate, four (4) copies of an itemized statement of the amount and value of labor and/or materials furnished, accompanied by the original receipted bills for commodities purchased or for the Work performed under a subcontract, and by an affidavit certifying the correctness of the said statement. The Engineer shall have access to any books, vouchers, records, and memoranda showing the labor employed and/or the materials actually used on the specific operation and the actual net cost thereof.
5. Work done under Force Account shall be subject to all of the requirements of the Contract Documents. It shall be performed in an orderly and economical way, and the prices paid for labor and/or materials and the method of performing the Work shall be subject to the approval of the Engineer. No Work will be paid for under Force Account unless it is ordered as such in writing.

IX. Acceptance of Work:

A. Tests:

1. If the Contract Documents, laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction hereof require any of the Work to be inspected, tested or approved, the Contractor shall give PhilaPort timely notice of its readiness and of the date arranged so that the Engineer may observe such inspection, testing, or approval.

The Contractor shall bear all costs of such inspections, tests and approvals unless otherwise provided. With regard to samples:

- a. All expenses incurred in the collection, packing, and delivering of samples or materials or equipment to the testing site shall be paid for by the Contractor.
- b. The Contractor shall pay the costs of transporting samples to the laboratory and the testing of same, except where otherwise noted in the General Conditions, Specifications, or called for in the Contract Documents.

- c. Approved samples to be incorporated in the Work shall be returned to the Contractor by the testing laboratory under the supervision of the Contractor.
2. If after the commencement of the Work, PhilaPort determines that any portion of the Work requires special inspection, testing, or approval, PhilaPort will, by written authorization, instruct the Contractor to order such special inspection, testing, or approval, and the Contractor shall give notice as provided for in this Section IX.A. If such special inspection or testing reveals a failure of the Work to comply with the requirements of the Contract Documents or with respect to the performance of the Work, with laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction hereof, the Contractor shall bear all costs thereof, including the Engineer's additional services made necessary by such failure; otherwise, PhilaPort shall bear such costs, and an appropriate change order shall be issued.
3. Required certificates of inspection, testing, or approval shall be obtained by the Contractor and promptly delivered by the Contractor to the Engineer and PhilaPort.
4. If the Engineer wishes to observe the inspections, tests, or approvals required by this Section IX, the Engineer shall do so promptly and, where practicable, at the source of supply.
5. Neither the observations of the Engineer in the administration of the Contract, nor inspections, tests, or approvals by persons other than the Contractor shall relieve the Contractor from obligations to perform the Work in accordance with the Contract Documents.

B. Uncovering the Work:

1. If any Work should be covered contrary to the request of PhilaPort or Engineer, it must, if required by PhilaPort or Engineer, be uncovered for its observation and replaced, at the Contractor's expense.
2. If any other Work has been covered which PhilaPort or Engineer has not specifically requested to observe prior to being covered, PhilaPort or Engineer may request to see such Work and it shall be uncovered by the Contractor. If such Work is found to be in accordance with the Contract Documents, the cost of uncovering and replacement shall, by an appropriate change order, be charged to PhilaPort. If such Work is found not in accordance with the Contract Documents, the Contractor shall pay such costs unless it is found that this condition was caused by another prime contractor, and in that event PhilaPort shall pay the Contractor for such costs and require reimbursement of such costs from the responsible prime contractor.

C. Correction of the Work:

1. The Contractor shall promptly correct all Work rejected by PhilaPort or Engineer as defective or nonconforming or as failing to conform to the Contract Documents, whether observed before or after the Date of Substantial Completion and whether or not fabricated, installed or completed. The Contractor shall bear all costs of correcting such rejected Work, including the cost of the Engineer's additional services thereby made necessary and any additional cost incurred by PhilaPort.
2. If, within one (1) year after the date of final acceptance of all Work required under the Contract Documents, or within such other period of time as may be prescribed by law or by the terms of any applicable special guarantee required by the Contract Documents, any of the Work is found by PhilaPort to be defective or not in accordance with the Contract Documents, the Contractor shall correct it promptly after receipt of a written notice from PhilaPort to do so, unless PhilaPort has previously given the Contractor a written acceptance of such specific condition. PhilaPort shall give such notice promptly after discovery of the condition. The performance bond required shall provide a guarantee in the sum of one hundred percent (100%) of the total Contract Sum for the correction and remedy of such defect. Should the Contractor or the Contractor's surety fail to comply with the orders of the Engineer to replace or repair defective material, workmanship, or equipment within ten (10) days from the date of notice thereof, PhilaPort shall have the right to declare the Contractor and/or the Contractor's surety in default, and to proceed with the correction of the defect.
3. All such defective or nonconforming Work under Sections IX.C.1 and 2 shall be promptly removed from the Site by the Contractor, and the Work shall be corrected to comply with the Contract Documents without cost to PhilaPort.
4. The Contractor shall bear the cost of making good all work of other prime contractors or Subcontractors destroyed or damaged by such removal or correction.
5. If the Contractor does not remove such defective or nonconforming Work within the time fixed by written notice from PhilaPort, PhilaPort may remove it and may store the materials and/or equipment at the expense of the Contractor. If the Contractor does not pay the cost of such removal and storage within ten (10) days thereafter, PhilaPort may upon ten (10) additional days' written notice sell such Work at auction or at private sale and shall account for the net proceeds thereof, after deducting all the costs that should have been borne by the Contractor pursuant to the provisions of this Section IX.C. If such proceeds of sale do not cover all costs which the Contractor should have borne, the difference shall be charged to the Contractor and an appropriate change order shall be issued. If the payments then or thereafter due the Contractor are not sufficient to cover such amount, the Contractor and/or the Contractor's surety shall pay the difference to PhilaPort.
6. If the Contractor fails to correct such defective or nonconforming Work, PhilaPort may correct the Work at the Contractor's expense.
7. The obligations of the Contractor under this Section IX.C shall be in addition to and not

in limitation of any obligations imposed upon the Contractor by special guarantees required by the Contract Documents or otherwise prescribed by law.

D. Acceptance of Nonconforming Work:

If PhilaPort elects to accept nonconforming Work, it may do so instead of requiring its removal and correction, in which case a change order shall be issued to reflect an appropriate reduction in the Contract Sum or, if the amount is determined after final payment, it shall be paid by the Contractor and/or the Contractor's surety.

E. Materials and Workmanship:

Where no requirements are specified for materials or for the methods of testing materials or equipment, they shall at least be equal to the latest standard or tentative specifications of nationally recognized standardizing agencies, including, but not limited to, the American Society for Testing and Materials, the American Water Works Association, the American Society of Mechanical Engineers, the latest codes of the National Board of Fire Underwriters or, as they may be applicable, the regulations of the pertinent Departments of the City and the Commonwealth.

The materials used in the Work shall conform to the requirements of the Specifications and shall be those best adapted for the kind of service required. The workmanship shall be equal to the best standard practice. Work of reconstruction and restoration of Commonwealth, City, PhilaPort, or privately owned structures shall be in accordance with the rules and regulations of the owners thereof. No materials shall be used on the Work until accepted and approved by the Engineer.

F. Inspection:

All of the Work shall be subject to supervision and inspection by the Engineer, and the Contractor shall cooperate and afford every facility for the inspection of the Work. Authorized representatives of PhilaPort shall be permitted access at all reasonable times to all portions of the Work, and to such portions of the place of manufacture of fabricated materials as may be necessary for complete inspection. Before beginning the Work, the Contractor shall notify the Engineer of the type and source of supply of the principal materials which the Contractor proposes to furnish, and, as soon as possible thereafter, shall furnish samples of materials, fixtures, and appliances offered for approval. Before beginning the fabrication of materials, or before shipping materials of a specified type, the Contractor shall notify the Engineer in ample time to permit inspection at the place of manufacture, should the Engineer so desire. Such materials shall be delivered to the Site or other location as designated in the Contract Documents properly marked for identification and shall be subject to re-inspection and final acceptance or rejection. Materials shall be delivered in sufficient time to allow for proper sampling and testing. All materials rejected by the Engineer as unsuitable or not in conformity with the Plans or Specifications shall be immediately removed. Unless otherwise specifically provided for, the cost of inspection and testing will be borne by the Contractor. Work shall be done only during regular working hours unless specifically authorized or

directed otherwise by the Engineer. The presence of the Inspector shall not lessen the obligation of the Contractor in accordance with the Contract Documents, or be deemed a defense on the part of the Contractor for infraction thereof. The Inspector is not authorized to revoke, alter, enlarge, relax, or release any of the requirements of the Contract Documents.

G. Investigation of the Work:

Should the Engineer at any time have reason to suspect that defective Work has been done, the Engineer may order an investigation made, and the Contractor shall furnish the necessary labor, appliances, Plans, Specifications, and all other material which PhilaPort finds relevant to the investigation. If any part of the Work is thus found to be defective, the Contractor shall reconstruct it to the satisfaction of the Engineer, and the cost thereof and of the investigation shall be at the sole expense of the Contractor. If the Work is found to be in accordance with the Contract Documents, the Contractor will be reimbursed for the expense incurred because of the examination.

H. Defective Work:

The Contractor shall remove, at the Contractor's own expense, any Work determined by the Engineer to be defective and not in accordance with the Contract Documents, and shall rebuild and replace the same without additional compensation. Failure to do so shall be deemed a violation of the Contract and subject to the procedures established in Section XI.A herein. Any omission or failure on the part of the Engineer to disapprove or reject any Work shall not be construed to be an acceptance of any such defective Work.

I. Restoration of Prior Conditions:

1. The Contractor shall remove promptly from the Site all rubbish and all unused materials and tools, and as the Work progresses the Site shall be carefully cleaned and kept clean from such rubbish and refuse. Before the Work will be considered as having been completed, the Site and places affected by the Work shall be thoroughly cleared and left clean by the Contractor; free from debris, construction plant, buildings, and materials; fit for travel or other proper use; and in as good of a condition as existed before the Work was begun. Grass plots disturbed shall be resodded or planted anew and shrubbery destroyed shall be replaced. Structures shall be broom clean, free from stains, spots or other blemishes, and ready for use, and all glass shall be washed. The restoration work shall be governed by the record of existing conditions made and filed in the office of the Engineer prior to the commencement of the Work.
2. If the Contractor fails to comply with this Section IX.I, PhilaPort may assign the Work to another contractor and the cost thereof shall be charged to the Contractor.
3. If a dispute arises between the Contractor and any other prime contractor as to their respective responsibilities under this Section IX.I, PhilaPort may authorize another contractor to perform the maintenance duties hereunder and charge the cost thereof to the several contractors as PhilaPort shall determine to be just.

X. X. Disputes & Contract Violations between the Contractor and PhilaPort:

A. Three-Step Resolution Process

1. The Contractor and PhilaPort agree that any and all disputes arising out of this Contract, which total more than five thousand dollars (\$5,000.00) in value, are subject to a three-step resolution process described in this Article X. The Contractor and PhilaPort agree that participation in each preceding step is a condition precedent to the Contractor's right to pursue any and all unresolved disputes to the next step. The Contractor expressly agrees that it shall carry on the Work during any proceedings under this Article X unless otherwise agreed by the Contractor and PhilaPort in writing.

B. Step One: FDR Meeting

1. The FDR Meeting is the initial step in identifying and attempting to reach a timely and equitable resolution of the variety of issues that arise on any construction project. The nature and structure of each FDR Meeting shall be flexible and consist of an informal, good-faith discussion of the current status of the Project, and identification of potential and actual disputes.
2. Project Intervals: A FDR Meeting will be scheduled by the Engineer to discuss issues arising as of the following intervals of the Project:
 - a. At any time an issue or dispute arises and more than 3% of the Contract Sum has been expensed by the Contractor and the Contractor provides written notice to the Engineer of such issue or dispute; and
 - b. 50% of the Contract duration has elapsed; and
 - c. 75% of the Contract duration has elapsed; and
 - d. 100% of the Contract duration has elapsed; or
 - e. At any time deemed necessary by PhilaPort.
3. Location: PhilaPort will schedule a mutually convenient date and time for each FDR Meeting. If possible, the FDR Meeting should be convened at the Project site.
4. Attendees: All prime contractors and the Engineer shall attend each FDR Meeting. The Engineer will chair the Meeting.
5. Procedure: As the Project progresses and the time for a FDR Meeting approaches, PhilaPort should establish the date for the meeting during Progress Meetings.
6. The Contractor must fill out a FDR Meeting form, a copy of which can be provided by PhilaPort. This form should be submitted to PhilaPort and provided to the other prime contractors approximately one (1) week prior to the FDR meeting. The information on this form should provide sufficient information to allow attendees to research potential

disputes, review the Contract Documents, review the project schedule and examine site conditions prior to the FDR Meeting. In all cases of misunderstanding and disputes, allegations that verbal instruction was given will not be considered. The Contractor must produce written documentation in support of its contentions and shall advance no claim in the absence of such written documentation, or use or attempt to use any conversation with any parties against the Engineer or PhilaPort, or in prosecuting any claim against the Engineer or PhilaPort.

7. PhilaPort shall convene the FDR Meeting and, if necessary, ensure that attendees are introduced to each other.
8. The FDR Meeting shall not be subject to 2 Pa.C.S. (relating to administrative law and procedure).
9. Neither audio recording nor videotaping will be allowed during the FDR Meeting.
10. No transcripts will be taken but attendees are free to take their own notes.
11. The FDR Meeting may be moved out to the field for visual inspection of the condition if necessary to understand and resolve the issue.
12. PhilaPort will allow all parties a reasonable time to present and discuss the disputes raised in the prime contractors' FDR Meeting forms.
13. A representative of the Contractor (an employee in the field familiar with the day-to-day work on this Contract) shall present a description of:
 - a. The Work performed since the last FDR Meeting; and
 - b. The Work to be performed in the near future; and
 - c. The status of disputes raised at the previous FDR Meeting; and
 - d. New disputes that have arisen since the previous FDR Meeting. For each new dispute, the representative shall:
 - i. Set forth the schedule impacts, which may only be presented using the current project schedule; and
 - ii. Set forth a proposed solution to the dispute, including:
 1. Days needed in any extension of time; and/or
 2. Damages attributed to the dispute; and
 3. Identification of the party the Contractor believes is responsible for

creating the dispute.

14. A representative of PhilaPort (and/or another prime contractor if so identified in above) shall present a description of:
 - a. Their understanding of the Work performed since the last FDR Meetings; and
 - b. The Work to be performed in the near future; and
 - c. The status of disputes raised at the previous FDR Meeting; and
 - d. A response to the new dispute(s) raised by the Contractor, including:
 - i. PhilaPort's and/or the Contractor's view of the schedule impact, which may only be presented using the current project schedule; and
 - ii. PhilaPort's and/or the Contractor's response to the original Contractor's proposed solution; and
 - iii. The identity of the party PhilaPort and or the Contractor believes is responsible for creating the dispute.
15. Within two weeks of the FDR Meeting, PhilaPort will render a written decision on the issues raised during the FDR Meeting. The decision will be issued to all attendees. The decision is not binding upon any party. PhilaPort will include in the decision the name of the employee or other representative who will serve as the Dispute Designee.
16. If any party is dissatisfied with the decision reached at the FDR Meeting, they may appeal the decision to the second step in the dispute process.
17. ANY ISSUE OR DISPUTE ARISING ON THE PROJECT MUST BE PRESENTED AT THE FIRST FDR MEETING AFTER THE DISPUTE AROSE. IF A CONTRACTOR FAILS TO RAISE AN ISSUE AT THE APPROPRIATE FDR MEETING THEN THE CONTRACTOR IS DEEMED TO HAVE WAIVED THE ISSUE.
18. ONLY CLAIMS RAISED DURING AN FDR MEETING MAY BE APPEALED TO THE CLAIM SETTLEMENT CONFERENCE STAGE.

C. Step Two: Claim Settlement Conference

1. The second step in the dispute resolution process is a Claim Settlement Conference, which is a more formal step in the process and is described in general in §1712.1 of the Commonwealth Procurement Code.
2. Time to File A Claim: Under this second step of the process, a Contractor may appeal the FDR Meeting decision by submitting a written claim to the Dispute Designee.

- a. ANY ISSUE OR DISPUTE ARISING ON THE PROJECT THAT IS NOT MUTUALLY RESOLVED AT THE FDR MEETING STAGE MAY ONLY BE APPEALED TO THE CLAIM SETTLEMENT CONFERENCE STAGE. IF THE CONTRACTOR FAILS TO PURSUE ANY UNRESOLVED FDR MEETING ISSUE TO A CLAIM SETTLEMENT CONFERENCE WITHIN THE 6-MONTH TIME FRAME SET FORTH BELOW, THEN THE CONTRACTOR IS DEEMED TO HAVE WAIVED THE ISSUE.
 - b. A CLAIM ACCRUES UPON THE DATE OF THE AUTHORITY'S WRITTEN DECISION IN STEP ONE. IF THE CONTRACTOR DECIDES TO APPEAL THE DECISION REACHED AT THE FDR MEETING, THE CONTRACTOR MUST FILE AN APPEAL OF THE DECISION TO THE DISPUTE DESIGNEE WITHIN SIX MONTHS OF THE DATE OF THE AUTHORITY'S WRITTEN DECISION. IF THE CONTRACTOR FAILS TO FILE A WRITTEN REQUEST WITHIN THIS TIME PERIOD, THE CONTRACTOR IS DEEMED TO HAVE WAIVED ITS RIGHT TO ASSERT THE CLAIM IN ANY FORUM. THE DISPUTE DESIGNEE WILL DISREGARD UNTIMELY CLAIMS.
3. Contents of the Claim: The claim filed by the Contractor with the Dispute Designee shall state ALL GROUNDS upon which the Contractor asserts a controversy exists. The claim must contain, at a minimum:
 - a. A Claim Settlement Conference Request Form, a copy of which can be provided by PhilaPort
 - b. The documentation submitted by the Contractor to PhilaPort during the FDR Meeting to substantiate the Contractor's view of the issue; and
 - c. PhilaPort's decision.
4. Date of the Claim Settlement Conference: The Dispute Designee will schedule a mutually convenient date and time for the Claim Settlement Conference.
5. Attendees: All parties identified in the claim packet or deemed necessary by PhilaPort shall attend the Claim Settlement Conference. At a minimum, the Contractor and the Engineer shall attend the Claim Settlement Conference.
6. Procedure: The Dispute Designee will convene the Claim Settlement Conference.
 - a. The Claim Settlement Conference shall not be subject to 2 Pa.C.S. (relating to administrative law and procedure).
 - b. Neither audio recording nor videotaping will be allowed during the Claim Settlement Conference.

- c. No transcripts will be taken but attendees are free to take their own notes.
 - d. The Dispute Designee will allow all parties a reasonable time to present and discuss the issues.
 - e. A representative of the Contractor shall present a description of the issue, including:
 - i. The factual background of the issue;
 - ii. The schedule impacts, which may only be presented using the current project schedule; and
 - iii. The proposed solution to the dispute, including:
 - 1. Days needed in any extension of time; and/or
 - 2. Damages attributed to the dispute; and
 - 3. Identification of the party the Contractor believes is responsible for creating the dispute.
 - f. A representative of PhilaPort (or other prime contractor if so identified above) shall present a description of, including
 - i. A response to the dispute(s) raised by the Contractor; and
 - ii. PhilaPort's and/or the Contractor's view of the schedule impact, which may only be presented using the current project schedule; and
 - iii. PhilaPort's and/or the Contractor's-response to the Contractor's proposed solution; and
 - iv. Identification of the party PhilaPort and/or the Contractor believes is responsible for creating the dispute.
7. The Dispute Designee will render a final determination on the issue(s) raised during the Claim Settlement Conference within 120 days of the receipt of the claim by the Dispute Designee. The parties may, during the 120-day period, mutually agree to extend the 120-day deadline. If extended, PhilaPort will issue written confirmation of the extension. If no decision is rendered within the 120 days, the claim is deemed to be denied on the 120th day. The determination of the Dispute Designee shall be the final order of PhilaPort with regard to the issue(s).

D. Step Three: Filing a Claim at the Board of Claims

1. The third step in the dispute resolution process is filing a Statement of Claim with the Board of Claims, which is a more formal step in the process and is described in general in §1712.1 and §1721 et seq. of the Commonwealth Procurement Code.
2. Time to File a Statement of Claim: Within fifteen (15) days of:
 - a. The mailing date of the Dispute Designee's final determination denying a claim;
or
 - b. Within 135 days of the date the Contractor files a claim with the Dispute Designee, if no final determination has been rendered and no extension has been agreed to, whichever occurs first, the Contractor may proceed to the third stage of the dispute resolution process by filing a claim with the Board of Claims in Harrisburg.
3. ONLY CLAIMS THAT WERE RAISED ON A TIMELY BASIS DURING A CLAIM SETTLEMENT CONFERENCE MAY PROCEED TO THE BOARD OF CLAIMS.

XI. Disputes Between Contractors:

A. Damage; Injury; Delay

1. Should the Contractor, personally or by any Subcontractor or their respective agents, servants, or employees, cause damage or injury to the property or work of any prime contractor or contractors, or by failing to perform the Work hereunder with due diligence (including the Work of the Subcontractors), delay any prime contractor or contractors who shall suffer additional expense or damage thereby, the parties involved in such dispute shall settle by agreement or arbitrate said claim, dispute or disputes by referring same to the American Arbitration Association. Said dispute or disputes shall be determined pursuant to the applicable arbitration rules of the American Arbitration Association then in effect. PhilaPort shall not be a party to disputes or actions between prime contractors or subcontractors concerning such additional expense or damage, and such disputes shall not be subject to the Board of Claims proceedings provided for in Section X.A.1 herein. It is agreed by all parties that disputes or actions between contractors concerning the additional expense or damage hereinbefore mentioned shall not delay completion of the Work which shall be continued by the parties, subject to the rights hereinbefore provided. It is agreed by the parties to the Contract (PhilaPort as promisee and the Contractor as promisor) that the intent of this Section XI.A.1 is to benefit the other prime contractors on the Project or related projects and to serve as an indication of the mutual intent of PhilaPort and the Contractor that this Section XI.A.1 raise such other prime contractors to the status of third party beneficiaries only as to the terms and conditions of Sections II.A and B and XI herein. The Contractor agrees that these Sections as a benefit to the Contractor and that they specifically exclude claims against PhilaPort for delay or other damages resulting from the actions and omissions of other contractors and subcontractors.

B. Breach

1. The Contractor agrees that all claims, disputes and other matters in question between prime contractors, which arise out of, or are related to the Contract or the breach thereof, shall be settled by agreement or resolved by arbitration in accordance with the applicable arbitration rules of the American Arbitration Association then in effect, unless the parties mutually agree otherwise. The agreement to arbitrate shall be in consideration of the fact that all other prime contractors agree to the same arbitration provision as provided in each separate prime contract required for the Project, and shall be specifically enforceable under the prevailing arbitration law. The award rendered by the arbitrators shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof. PhilaPort shall not be a party to the arbitration nor shall such claim or dispute be subject to the Board of Claims proceedings provided for in Section X.A.1 herein.

C. Demand for Arbitration

1. Notice of the demand for arbitration shall be filed in writing with the other prime contractors and with the Philadelphia Regional Office of the American Arbitration Association or such other location as the American Arbitration Association may request, and a copy shall be filed with the Engineer and PhilaPort. The demand for arbitration shall be made within a reasonable time after the claim, dispute or other matter in question has arisen. PhilaPort shall not be a party to the claim, dispute or other matter in question, but shall be a witness in any arbitration at the request of any party to the arbitration.

XII. Contract Violations:

A Violations of the Contract:

1. If the Contractor shall abandon the Work, or, in the sole opinion of the Engineer neglect or fail to perform the Work with promptness and diligence, or unreasonably delay the Work so that it may not be completed within the time specified in the Contract, or if the Contractor shall neglect or refuse to furnish on a timely basis suitable materials in place of any which may be rejected by the Engineer as unsuitable, or shall refuse or neglect to furnish and supply on a timely basis a sufficiency of properly skilled workers and necessary equipment or either, or if the Contractor shall execute any of the Work improperly, carelessly, or in bad faith, and refuse to remove on a timely basis any of the Work which, in the opinion of the Engineer, is defective and unsuitable, and to replace it on a timely basis in accordance with the Contract Documents, or if the Contractor shall default in the performance of any of the terms, conditions, and provisions of the Contract Documents, then and in that event the Executive Director may provide written notice to the Contractor and the Contractor's surety to remedy the neglect or default, and require the Contractor to comply with the terms, conditions, and provisions of the Contract which are being violated. If the said notification is without effect forty-eight (48) hours after the delivery thereof, or twenty-four (24) hours when, in the opinion of the Executive Director, immediate action is necessary to safeguard life or property, the Executive

Director shall have the right to declare the Contractor in default, and to notify the Contractor to discontinue the Work or any part thereof under the Contract, and to call upon the surety to complete the same through contractors which meet the approval of the Executive Director and, in the opinion of the Executive Director, have qualifications at least equal to those required of the original Contractor. If the surety fails to begin to fully and completely perform the Work by means of such approved contractors within ten (10) days, or within twenty-four (24) hours when, in the opinion of the Executive Director, immediate action is necessary to safeguard life or property, the Executive Director shall have the right to declare the surety in default and, at the Executive Director's option:

- a. to determine the Work which needs to be completed to maintain conditions; to obtain bids, if circumstances will allow, for all or any portion of the Work; and to enter into a new contract to complete the Work of the original Contractor; or
 - b. in the case of an emergency, including but not limited to danger to life or property, or serious interference with traffic or the movement of cargo, to terminate the Work, and to then and there secure in the open market, from any person or party, at the then-current market prices, the materials of the quality and quantity required, the necessary workers and mechanics, and the required equipment to continue the Work and complete the Contract.
2. Upon default by the Contractor as hereinabove set forth, all monies due the Contractor upon estimates, retained percentage or otherwise, materials delivered, materials built into the Work, and the Contractor's plant (including, but without limitation, tools, appliances, materials, and equipment on the Site), shall upon such default become the property of PhilaPort for use in the completion of the Work, and resort shall be had thereto by PhilaPort to the extent necessary to maintain and complete the Work and reimburse PhilaPort for its outlays and expenditures.
 3. In case of such default by the Contractor, the remedies herein provided shall be in addition to, and not in substitution of, the rights and remedies which would otherwise be vested in PhilaPort, all of which rights and remedies are specifically reserved to PhilaPort. The failure of PhilaPort to exercise any of the remedies herein provided shall not preclude PhilaPort from seeking any other appropriate remedy or remedies.
 4. The use of specific remedies herein provided shall not prevent subsequent or concurrent resort to any other remedy which by law or equity would be vested in PhilaPort for the recovery of damages or otherwise, in the event of default by the Contractor.
 5. The Contractor and the Contractor's surety shall pay to PhilaPort on demand, all loss, expense, cost, or damage suffered or incurred by PhilaPort by reason of any default.

XIII. Suspension of Work:

A. Suspension of the Work Due to Unfavorable Conditions:

1. If, in the judgment of PhilaPort, the Contractor is taking undue risk of damage by proceeding with the Work during unfavorable weather or other conditions, which is not for the joint benefit of PhilaPort and the Contractor, or for the sole benefit of PhilaPort, then PhilaPort may suspend the Work temporarily, either wholly or in part for such periods as may be necessary on account of unsuitable weather or other conditions unfavorable to the safe and proper prosecution of the Work. In the case of such suspension, a proper extension of time will be allowed as provided herein, but no allowance will be made to the Contractor for any expenses or damages resulting therefrom. It shall be clearly understood that the failure of PhilaPort to suspend the Work shall not relieve the Contractor of the Contractor's responsibility to perform the Work in accordance with the Contract Documents.
2. PhilaPort has the right to require a suspension of the Work if in its opinion unforeseen conditions warrant such a suspension. When PhilaPort directs resumption of the Work, the Contractor shall resume full operations within a period of ten (10) days after receipt of written notice to do so. PhilaPort shall not be held liable for any damage or anticipated profits on account of the Work being suspended. Any Work done by the Contractor during the period of suspension shall be the Contractor's responsibility and the Contractor shall receive no payment therefor unless the Work is subsequently resumed and the Work done during the interval of suspension can be utilized in the resumed Work. Suspensions of Work as outlined above shall not in themselves operate to extend the Date of Completion. Requests for extensions of time must be submitted in writing by the Contractor setting forth the Contractor's reasons for such an extension.

B. Suspension of the Work for the Convenience of PhilaPort:

1. PhilaPort may, in writing, order the Contractor to suspend all or any part of the Work for such period of time as it may determine to be appropriate for the convenience of PhilaPort, except that this Section XIII.B shall not apply under the conditions enumerated in Section XII.A herein.
2. If the performance of all or any part of the Work is, for an unreasonable period of time, suspended by PhilaPort, an adjustment shall be made for any increase in the cost of performance of the Contract (excluding anticipated profit) necessarily caused by such unreasonable suspension, and the Contract shall be modified in writing accordingly. However, no adjustment shall be made under this Section XIII.B for any suspension to the extent:
 - a. that performance would have been so suspended by any other cause, including the fault or negligence of the Contractor; or
 - b. for which an equitable adjustment is provided for or excluded under any other provision of the Contract.

3. No claim under this Section XIII.B shall be allowed unless the claim, in an amount stated, is asserted in writing as soon as practicable after the termination of such suspension, but not later than the date of final inspection under the Contract.

C. Suspension of the Work and Fault of the Contractor:

Should the Contractor fail to comply with the orders of PhilaPort relative to any particular part of the Work, PhilaPort may suspend the Work on any or all parts until its orders respecting the particular parts are complied with. In the case of such a suspension, which shall be considered due to the fault of the Contractor, no extension of time shall be given and no allowance will be made for the expenses incurred by the Contractor during the period of such suspension.

XIV. Termination:

A. Termination by the Contractor:

If the Work is stopped for a period of thirty (30) days or more under an order of any court or other public authority having jurisdiction thereof, through no act or fault of the Contractor or any Subcontractor or their agents or employees or any other persons performing any of the Work, including other prime contractors, or if the Work should be stopped for a period of thirty (30) days or more by the Contractor for PhilaPort's or the Commonwealth's failure to make payment pursuant to Section XV.F herein, then the Contractor may, upon seven (7) days' written notice to PhilaPort, terminate the Contract and recover payment for all Work performed as provided in Section XV.E herein.

B. Termination by PhilaPort:

1. PhilaPort shall have the right at any time and for any reason, to terminate the Contract. In such case, the Contractor shall be paid (and shall accept payment) for that portion of the entire Contract actually performed to the date of termination, excluding, however, any loss of anticipated profits. Disputes as to the sum then payable to the Contractor shall be settled in accordance with the provisions of Section X.A herein.
2. Such termination shall be effective in the manner and at the time specified in the notice of termination and shall be without prejudice to any claims which PhilaPort may have against the Contractor. Upon receipt of such notice from PhilaPort, the Contractor shall immediately discontinue all Work and the placing of all orders for materials and equipment, facilities and supplies in connection with the performance of the Work, and shall proceed to cancel promptly all existing orders and terminate Work under all subcontracts so far as such orders and Work are chargeable to the Contract; provided, however, that the Contractor shall take such measures for the protection of the property of PhilaPort as may be directed by PhilaPort. Upon termination of the Contract, full and complete adjustment and payment of all amounts due the Contractor arising out of the Contract as determined by an audit conducted by or for PhilaPort, shall as soon as practicable after such termination be made as follows:

- a. the Contractor shall be reimbursed for all costs incurred to the date of termination, including reasonable overhead and expenses directly applicable to the Project, made in the performance of the Contract less amounts previously paid;
- b. the Contractor shall be reimbursed for all costs to which the Contractor has been subjected to or which the Contractor is legally liable for by reason of the termination of the Contract, including reasonable costs relating to cancellation of orders, termination of subcontracts, and other similar charges to the extent the Contractor is liable therefor;
- c. the Contractor shall be reimbursed for the reasonable cost of providing protection of the property of PhilaPort as directed by the notice of termination;
- d. the sum total of the payments made under this Section XIII.B shall not exceed the authorized total amount of the Contract less payments previously made;
- e. title to all property accruing to PhilaPort by reason of the termination of the Contract shall immediately vest in PhilaPort and the Contractor shall execute and deliver to PhilaPort all papers necessary to transfer title;
- f. coincident with the making of final payment, the Contractor shall furnish PhilaPort with a final release; and
- g. PhilaPort or its representatives shall be afforded full access to all books, correspondence and papers of the Contractor relating to the Contract in order to determine the amount due thereunder.

XV. Payments:

A. Scope of Payments:

Payment for the cost of all labor, materials, and services required to be done or furnished to complete the Work, as specified in the Contract Documents (except where payment is otherwise specifically provided), will be made at the price(s) specified in the bid. If the Work includes the supply and/or installation of materials, the prices bid shall each cover the supply and/or installation, in a good, sound, substantial, and workmanlike manner, of everything required for and incidental to the full completion of the Work of that item as called for by the Plans and/or as specified, including its proportionate share of the expense of all plant, tools, and equipment required; the cost of all bonds, fees, and permits; of all administration, superintendence, and insurance; and of any loss or damage arising out of the nature of the Work, from the action of the elements, from any unforeseen difficulties encountered in the performance of the Work, and from risks of all kinds connected with the Work.

B. Mobilization:

The Contractor may include in the Contractor's breakdown a line item for mobilization in an amount of 1.5 percent of the contract award up to a maximum of \$90,000. Mobilization costs shall be limited to the cost of the Contractor's field office and the cost of heat, lights and telephone for the field office.

C. Payment to Subcontractors:

In accordance with 55 P.S. § 697.11(a), and 62 P.S.C.A § 3933, the Contractor will pay for all materials furnished and services rendered for the performance of the Contract, and any Subcontractor furnishing such materials or rendering such services may maintain an action to recover for the same against the Contractor, as though the Subcontractor was named in the Contract, provided that the action is brought within one (1) year after the time the cause of action accrued, and without prejudice to any other rights or remedies available pursuant to contract, statute or law.

D. Progress Payments:

1. Unless otherwise provided in the Contract Documents, during the progress of the Work, the Contractor shall prepare periodic current estimates of the value of the Work performed and shall submit to PhilaPort itemized applications for payment to the Accounts Payable Department of PhilaPort on the form provided by PhilaPort. The applications shall be supported by data substantiating the Contractor's right to payment, as PhilaPort may require. The Engineer and PhilaPort will review the applications for validity.
2. Prime Contractor shall submit monthly HUB reports. Specifically, Prime Contractor shall submit the Prime Contractor HUB Monthly Reporting Form Summarizing Payments (see Exhibit 2 of PhilaPort's Diversity & Inclusion Policy) made for each project as well as proof of payment in the form of invoices from subcontractors. Both form and proof of payment to subcontractors should be submitted to the Finance Department along with the Prime Contractor's monthly invoicing. PhilaPort reserves the right to reject the monthly progress payment request if the HUB monthly reporting is not deemed sufficient.
3. Unless otherwise provided in the Contract Documents, and as provided in Section XV.E herein, upon the determination of PhilaPort as to reasonableness, payments may be made to the Contractor on account of materials or equipment especially fabricated for the Work, which materials or equipment are delivered and suitably stored at the Site or on PhilaPort property. However, such payments shall be conditioned upon submission by the Contractor of bill of sale forms provided by or otherwise acceptable to, PhilaPort to establish PhilaPort's title to such materials or equipment. The Contractor shall remain responsible for all losses of materials and equipment which remain under the Contractor's custody and control regardless of the exclusions in the insurance policies as required under PhilaPort's bill of sale form or the location of such, whether on or off of the Site.

4. Unless otherwise provided in the Contract Documents, the Contractor warrants and guarantees that title to all materials and equipment covered by an application for payment, whether incorporated in the Project or not, will pass to PhilaPort upon the receipt of such payment by the Contractor, free and clear of all liens, claims, security interests or encumbrances; and that no materials or equipment covered by an application for payment will have been acquired by the Contractor, or by any other person performing the Work at the Site or furnishing materials and equipment for the Project, subject to an agreement under which an interest therein or an encumbrance thereon is retained by the seller or otherwise imposed by the Contractor or such other person.

E. Application for Payment:

1. If the Contractor has made an application for payment, and subject to the schedule for payment provided in Section XIV.D herein, the Engineer will, within seven (7) days after the receipt of the application, unless otherwise provided in the Contract Documents, process the application for payment to PhilaPort, with a copy to the Contractor, for such amount as the Engineer determines to be properly due, or state in writing the Engineer's reasons for withholding the application.
2. By approving an application for payment, the Engineer shall not thereby be deemed to represent that the Engineer has made exhaustive or continuous inspections to check the quality or quantity of the Work, or that the Engineer has reviewed the Contractor's means, methods, techniques, sequences or procedures, or that the Engineer has made any examination to ascertain how or for what purpose the Contractor has used the moneys previously paid on account of the Contract Sum.
3. In the case of projects funded by Commonwealth capital funds, after the Engineer and PhilaPort have approved the application for payment, PhilaPort shall forward the application for payment to the Commonwealth and the Commonwealth shall make payment directly to the Contractor in the manner provided in the Contract Documents. In the case of projects funded by PhilaPort operating funds, payment shall be made to the Contractor by PhilaPort in the manner provided in the Contract Documents. In the absence of good and sufficient reasons, within twenty (20) days of the receipt of payment by the Contractor, the Contractor shall pay all Subcontractors, with whom the Contractor has contracted, their earned share of the payment the Contractor received.
4. No application for a progress payment, nor any progress payment, nor any partial or entire use or occupancy of the Project shall constitute an acceptance of any Work not in accordance with the Contract Documents, nor shall any payment constitute a waiver by PhilaPort of its right to assert a claim with respect to any matter arising under or relating to the Contract or the services provided thereunder.
5. Progress payments on contracts other than equipment contracts, will be reduced by ten percent (10%) until the Substantial Completion of the Work, as such term is defined in Section XV.A herein; provided, however, that when the amount of the progress payments reaches fifty percent (50%) of the Contract Sum, and all of the requirements of the

Contract, including its satisfactory progress, have been complied with, no additional percentage will be retained on succeeding payments during the continuation of such satisfactory performance of the Work. Progress payments will be the amount of the payment as thus reduced less the sum of all previous payments. When the Contract is fifty percent (50%) completed, one-half of the amount retained by PhilaPort shall be returned to the Contractor; provided, that the Engineer approves the application for payment; and provided further, that the Contractor is making satisfactory progress and there is no specific cause for greater withholding. The sum or sums withheld by PhilaPort from the Contractor after the Contract is fifty percent (50%) completed shall not exceed five percent (5%) of the value of completed Work based on monthly progress payment requests; provided, however, that in the event a dispute arises between PhilaPort and any contractor, which dispute is based upon increased costs claimed by one contractor occasioned by delays or other actions of another contractor, additional retainage in the sum of one and one-half (1½) times the amount of any possible liability may be withheld until such time as a final resolution is agreed to by all parties directly or indirectly involved, unless the Contractor causing the additional claim furnishes a bond satisfactory to PhilaPort to indemnify PhilaPort against the claim. However, all such monies retained by PhilaPort may be withheld from the Contractor until Substantial Completion of the Contract.

6. Progress payments on contracts for furnishing and/or installing electrical, mechanical, plumbing, heating, and other equipment subject to test, will include an allowance of fifty percent (50%) of the price bid for the units especially fabricated therefor (or the apportioned value thereof), when such equipment is delivered on the Site or on PhilaPort property. A further allowance of twenty-five percent (25%) will be made when the equipment is installed and ready for test.
7. This Section XIV.E shall apply unless otherwise provided in the Contract Documents.

F. Failure of Payment:

If PhilaPort or the Commonwealth should fail to make payment to the Contractor as provided in Section XV.E herein within sixty (60) days after receipt of an application for payment that was approved by PhilaPort for payment, such failure shall afford the Contractor the right to an immediate Claim Settlement Conference before a Dispute Designee as provided in Section X.A herein. The Contractor shall not be entitled to stop Work in any event unless PhilaPort exercises its right to suspend the Work as provided in Sections XIII.A and B herein. Under this Section XV.F, after a decision has been rendered by the Dispute Designee, the Contractor may file a claim with the Board of Claims as provided in Section X.A herein.

G. Substantial Completion Inspection:

1. When the Contractor requests a substantial completion inspection of the Work or a designated portion thereof, the Engineer and PhilaPort shall make a substantial completion inspection within thirty (30) calendar days of the request. At any time during the progress of the Work, however, PhilaPort may schedule a substantial completion

inspection. During the substantial completion inspection, a punch list will be compiled by the Engineer listing the items to be completed or corrected to achieve Final Completion. The failure to include any items on such list shall not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents. If the Engineer and PhilaPort, on the basis of a substantial completion inspection, determine that the Work is Substantially Complete, then the Engineer will issue a certificate of substantial completion, which shall establish the date of Substantial Completion, shall state the responsibilities of the Contractor for maintenance, heat and utilities and other items, if applicable, and shall fix the time within which the Contractor shall complete the items listed therein, said time to be before the Date of Completion or any extension thereof. The substantial completion certificate of completion shall be submitted by the Engineer to PhilaPort and the Contractor for their written acceptance of the responsibilities assigned to them in such certificate.

2. Following the substantial completion inspection, if there are items to be completed and/or corrected, PhilaPort and the Engineer will determine the dollar value to be withheld by PhilaPort. The Contractor shall complete all items to be corrected and/or completed within thirty (30) days after the date of substantial completion inspection or show just cause to the satisfaction of the Engineer and PhilaPort why they cannot be completed. If the Contractor does not complete the items to be corrected and/or completed within thirty (30) days, or show just cause to the satisfaction of the Engineer and PhilaPort why they cannot be completed, PhilaPort will have the right to correct those items at the Contractor's expense.
3. At no time after the date of substantial completion inspection shall the Contractor be permitted to file any claim, arising under the Contract, against PhilaPort; provided, however, that this shall not preclude the Contractor from filing claims against PhilaPort which arise subsequent to the date of substantial completion inspection and prior to acceptance by the Contractor of final payment.

H. Final Payment:

1. Final payment, constituting the entire unpaid balance of the Contract Sum, shall be paid to the Contractor as provided in Section XV herein forty-five (45) days after the issuance of the certificate of final completion and the final application for payment; provided that the Work has then been fully completed and accepted by PhilaPort, and Final Completion has occurred.
2. If, after Substantial Completion of the Work, Final Completion is materially delayed through no fault of the Contractor, and the Engineer and PhilaPort so confirm, then upon certification by the Engineer, and without terminating the Contract, payment of the balance due for that portion of the Work fully completed and accepted shall be made to the Contractor as provided in Section XV herein. If the remaining balance of the Work not fully completed or corrected is less than the retainage stipulated in Section XIV herein, and if the appropriate bonds have been furnished, the written consent of the surety to the payment of the balance due for that portion of the Work fully completed and

accepted shall be submitted by the Contractor to PhilaPort prior to certification of such payment. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of any of the claims of PhilaPort against the Contractor.

3. The making of final payment shall constitute a waiver of all claims by PhilaPort except those arising from:
 - a. unsettled claims;
 - b. faulty or defective Work;
 - c. failure of the Work to comply with the requirements of the Contract Documents;
or
 - d. terms of any special guarantees required by the Contract Documents.
4. Acceptance of the Final Payment shall constitute a waiver of all claims by the Contractor.

I. Interest on Final Payment:

In accordance with Pa. Stat. Ann. tit. 62, § 3941(b), the final payment due the Contractor after Substantial Completion of the Contract shall bear interest at a rate of ten percent (10%) per annum, such interest to begin after the date that such payment shall become due and payable to the Contractor; provided, that where PhilaPort has issued bonds to finance the Project, interest shall be payable to the Contractor at the rate of interest of the bond issue or at the rate of ten percent (10%) per annum, whichever is less. The acceptance of the final payment shall constitute a waiver of all claims and liens by the Contractor not filed prior to such acceptance.

XVI. Completion:

A. Substantial Completion:

The date of Substantial Completion of the Work, or designated portion thereof, is the date on which the Engineer certifies, and PhilaPort approves, that the Work is sufficiently complete, in accordance with the Contract Documents, so that the Work, or designated portion thereof, is available for the use for which it is intended, excepting only minor punch list items in non-completion of which does not interfere with the Work's intended use. Upon Substantial Completion, PhilaPort shall accept the Work or designated portion thereof, which acceptance shall not unreasonably be withheld. Upon substantial completion, Contractor will provide all documents referenced in Sections V.E and K.

B. Final Completion:

1. The date of Final Completion of the Work is the date when all of the items set forth

below are achieved:

- a. All of the Work has been completed and accepted by PhilaPort, including but not limited to all items on the punch list;
- b. The Contract is fully performed as provided in the Contract Documents; and
- c. The following have been provided to PhilaPort;
 - i. an affidavit that all payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which PhilaPort might in any way be responsible, have been paid or otherwise satisfied;
 - ii. statements of the surety and the Contractor which are satisfactory to PhilaPort as to the Contractor's payment of all claims for labor and materials; and
 - iii. if required by PhilaPort, other data establishing payment or satisfaction of all such obligations, such as receipts, releases and waivers of liens arising out of the Contract, to the extent and in such form as may be designated by PhilaPort. Such information includes, but is not limited to, proof of actual MBE/WBE Participation.
 - iv. all documentation referenced in Sections V.E and K.
2. If any Subcontractor refuses to furnish a release or waiver required by PhilaPort, the Contractor may furnish a bond satisfactory to PhilaPort to indemnify PhilaPort against any such potential or actual lien. If any such lien remains unsatisfied after all payments are made, the Contractor shall refund to PhilaPort all moneys that the latter may be compelled to pay in discharging such lien, including all costs and reasonable attorney's fees.
3. Neither the final payment nor any remaining retained percentage shall become due until the Contractor submits to PhilaPort the items set forth in Section XVI.B.1.c above.

XVII. Warranty:

A. Maintenance After Completion and the Contractor's Guarantee:

1. The Contractor shall guarantee the Work against defects of material and workmanship for a period of one (1) year from the date of final acceptance by PhilaPort, unless another period is specified in the Contract Documents, and shall guarantee all equipment to perform the duty specified. PhilaPort shall have the benefit of all guaranties and warranties, including all equipment and material guaranties and warranties. When individual items of the Contract are accepted and used by PhilaPort prior to the Date of Completion, the period of guarantee for said items shall begin from the date of

acceptance of such items. If, within the said period of guarantee, any of the Work shall prove to be defective either in material or workmanship, or if damage occurs by settlement of any backfill placed under the Contract, or if any part or parts of equipment furnished shall prove to be inadequate, insufficient, or defective either in design, material, or workmanship, the Contractor shall, immediately upon demand from the Engineer (whose decision as to such inadequacy, insufficiency, or defectiveness shall be binding and conclusive upon the parties hereto), repair and replace the same, and shall repair and replace any consequential damage to other parts or structures, at the Contractor's own cost and expense, without cost or expense to PhilaPort, and to the approval and satisfaction of the Engineer.

2. Should the Contractor or the Contractor's sureties fail to comply with the orders of the Engineer to replace or repair defective material, workmanship, or equipment within ten (10) days from the date of such notice, PhilaPort shall have the right to declare the Contractor and/or the Contractor's surety in default, and to proceed with the correction of the defect in accordance with the provisions of these General Conditions.

XVIII. Work Site Conditions:

A. Performance of the Work:

The method of procedure shall be subject to approval as best adapted for the safe, efficient, and expeditious performance of the Work, with a minimum of interference with public traffic or convenience, or the movement of vehicular traffic or cargo on the Site. The Work shall be performed at such times and at such places as may be ordered or approved by the Engineer.

B. Maintenance of Traffic and Access to Property:

Traffic of all kinds shall be maintained continuously and access to buildings shall be provided for at all times, except where otherwise specifically permitted by the Contract Documents, or where temporary interference is authorized by the Engineer, in which case it shall be interrupted only for such time as is necessary to provide temporary substitutes for surfaces disturbed by the Work and to restore street and sidewalk surfaces after the completion of the Work. Where partial occupation of the street is allowed, materials and equipment shall be so placed as to insure a minimum of interference with traffic. No materials shall be placed on the sidewalk within one (1) foot of the curb line, and a clear sidewalk passage not less than four (4) feet in width shall be maintained at all times. The flow in gutters and inlets shall be maintained.

C. Temporary Buildings:

Buildings, fences, and equipment erected by the Contractor shall be neat in appearance, shall be approved by the Engineer, and shall be painted a medium blue or other color as designated by the Engineer. No advertising matter, other than Contract information and the name and address of the Contractor, shall be displayed on the Work.

D. Temporary Ventilation:

The Contractor shall provide temporary ventilation to remove from the structure any excessive humidity in enclosed portions of the Work resulting from the Work so that the Work may be performed without interruption and under correct conditions including required dryness for installation of the various materials. Any dangerous or noxious fumes or particles suspended in the air shall be the responsibility of the contractor whose work caused those conditions to exist. Temporary equipment used shall produce no hazard to the Work or to any person in or near the Work. The Contractor shall furnish all such equipment, pay all costs for it and for its operation, including fuel and power supplies during operation both in and out of normal working hours, and the Contractor shall remove it when no longer required.

E. Detour Signs:

When permission is given to close a highway during Contract operations and to divert the traffic therefrom, the Contractor, at the Contractor's own expense, shall erect and maintain highway barricades. Detour signs shall be placed by the Department of Streets of the City and/or the Pennsylvania Department of Transportation, as applicable. The Contractor will be required to notify PhilaPort seven (7) Working Days prior to the date of starting the Work and one (1) Working Day prior to the Date of Completion. Copies of these notices shall be sent to the Traffic Engineer of the Department of Streets and the Pennsylvania Department of Transportation.

F. Contract Identification Signs:

When so directed by the Engineer in writing, the Contractor shall, at the Contractor's own expense, erect and maintain in a prominent position upon the Work a suitable sign, plainly lettered with the name and address of the Contractor, the character of the Work and the name of PhilaPort. No advertising matter other than the signs above noted shall be displayed on the Work.

G. Storage Space:

Buildings, yards, or sidings that may be required for the delivery or storage of materials shall be provided by and at the cost of the Contractor. The use of streets for storing materials will not be permitted, unless specifically authorized in writing by the Engineer.

H. Night Work:

Work during the night shall be carried on with due regard to the comfort of nearby residents, and the method of performance shall be subject to the approval of the Engineer, who may, if conditions so require, order that no night work be done in specific localities. Workers shall refrain from loud noises, calls, or whistles; and the operation of air compressors, rock drills, and blasting is prohibited between the hours of 7:00 p.m. and 7:00 a.m. unless specifically

permitted by the Engineer.

I. Power and Light:

The Contractor shall use either electric, compressed air or internal combustion engine power, unless conditions are such that use of steam power is not objectionable and its use is approved by the Engineer. When compressed air or internal combustion engines are used the exhaust shall be muffled. Only electric lights shall be used in or under buildings or anywhere on the Site below the surface of the street.

J. Use of Water:

The Contractor shall make all necessary arrangements and obtain all permits for the use of water from the City or otherwise, and Contractor shall pay for all water used and permits required.

K. Prevention of Dust and Smoke:

The Contractor shall keep the surface of the sidewalks and streets affected by the Work, including, but without limitation, decking and temporary paving, in a clean and neat condition. The Contractor shall sprinkle with water or otherwise treat the surface sufficiently to keep the dust laid during the progress of the Work. Piles of dirt or other material shall not be left on the surface. The above mentioned requirements are not intended to take the place of the usual duties of the Department of Streets or the Pennsylvania Department of Transportation, as applicable, but to supplement them. No fires of any kind or burning of debris on the Site or adjacent to it will be permitted; debris shall not be disposed of on the Site.

L. Explosives:

If any blasting is involved in the performance of the Contract, the Contractor must obtain a blasting permit from the Department of Licenses and Inspections of the City and all such other licenses or permits as shall be required. Permits will be issued only upon approval of the appropriate governmental agency or official, and posting of a bond or delivery of a certificate of insurance covering personal injuries and property damage. Blasting may be done only by licensed blasters duly licensed by the City. The Contractor must also obtain all necessary licenses or permits for the storage of explosives and the transportation of explosives to the Site, which are issued by the Department of Licenses and Inspections of the City subject to prior approval of the appropriate governmental agency or official.

M. Work in Freezing Weather:

Masonry of all kinds, pointing, grouting, plastering, and other Work subject to the action of frost shall not be done when exposed to freezing weather, except under conditions where the Engineer may specifically direct or permit such Work, subject to the heating of materials, the

protection of finished Work, and such other measures as may be deemed necessary. The Contractor's work should take into account the possibility of normal weather conditions and the Engineer is not required to authorize additional time or money for the completion of the Work. If operations are suspended on account of freezing weather, the Work shall be properly protected until the resumption of Work is permitted. If a suspension of the Work on account of freezing weather or from any other cause is necessary, the Site shall be cleaned up and left in good order during the period of such suspension.

N. Cooperation with Public Utility Companies:

Notice shall be given by the Contractor to all individuals, companies, and the proper City officials owning or having charge of structures along any part of the Work, of the Contractor's intention to commence operations along such part of the route, at least seven (7) days in advance, and a copy of such notice shall be filed with the Engineer. The Contractor shall cooperate with other contractors and with the employees, officers, and agents of the City, Commonwealth and Federal departments and of the various companies which own, operate, or have supervision over the structures encountered, and shall conform to the reasonable requirements of the owners of such structures with regard to their safe maintenance. The Contractor shall give to authorized representatives of said departments and companies free access at all times to the excavation and to the Site to inspect the condition and support of their structures. Suitable arrangements shall be provided to facilitate access to valves and manholes. Ventilation openings shall be provided where gas is likely to accumulate. Where structures are to be constructed under the facilities of any public utility company, the Contractor shall arrange with the public utility company for the removal or support and maintenance of such facilities.

O. Gas Pipes:

The performance of any necessary alterations to the gas mains and gas service pipes, including temporary or permanent relocations thereof, are the responsibility of the Contractor and shall be performed by the Contractor or the Philadelphia Gas Works. The mains and services that have been removed may be replaced in their permanent position after the backfilling has been sufficiently compacted.

P. Traffic Control Apparatus:

The Contractor shall support and maintain in their present locations, or in approved temporary locations, any existing traffic signs or traffic control masts, signals, signs, apparatuses, and their connecting cables, in the proper condition to permit the uninterrupted functioning of the signals during the progress of the Work, on temporary poles if necessary, and in a manner satisfactory to the City's Department of Streets and/or the Pennsylvania Department of Transportation, as applicable. If the existing signal apparatus is supported on poles and these poles are moved to a temporary location during the progress of the Work, the Contractor shall either erect temporary signal poles in the approximate locations of the original poles and erect the signals thereon, or shall extend the electrical connection to the poles as relocated, as may be ordered by the Engineer. Upon the restoration of surface conditions, the Contractor shall restore the equipment, including cables and electrical connections, to its original position and condition. The Contractor's obligations under this Section XVII (P) shall be done without additional compensation.

Q. Interruption of Existing Services:

Whenever it becomes necessary to interrupt existing services in use, such as sewer, water, gas and steam lines, and electric service, the Work shall continue on a twenty-four (24) hour basis until it is completed and the service restored, or at such alternate time required by PhilaPort.

R. Support and Protection:

All structures unless specifically designated by the Engineer to be abandoned or relocated, shall be supported and protected at all times from injury, including damage from freezing, and maintained continuously in service. Should any injury occur while the Work is in progress and the structures are under the protection of the Contractor, the Contractor shall fully restore such structures to as good a condition as existed before the injury was done. The above, including also such changes of structures as are for the Contractor's own convenience in executing the Work, shall be done without additional compensation, unless otherwise specifically provided for in the Contract Documents.

S. Structures Interfering with Construction:

If, in the course of the Work, it is found that any of the existing structures occupy space required by any other structure or appurtenances thereto to be constructed under the Contract, or that they are so situated as to render it impracticable, in the opinion of the Engineer, to do the Work called for under the Contract in the manner specified, the Contractor shall excavate and uncover the portions of the structures within the pavement lines for excavating under the Contract and shall maintain such structures in service and shall notify the Engineer, who will arrange for the relocation, changing, or removal of the interfering pipes or structures within a reasonable time. The Contractor shall not move nor disturb the structures in any way without consultation with the owners and the approval of the Engineer. Structures belonging to public utility companies, which are ordered by the Engineer to be removed or relocated, will

be so removed or relocated and permanent supports placed. The Contractor, however, shall support and protect them up to the time of their removal, shall cooperate with their owners during the process of relocation, and shall maintain and protect them if and when they are relocated within the zone of influence of the Work. This Work shall be done by the Contractor without additional compensation from PhilaPort. Sewers, water pipes, electrical conduits, and other structures shall be constructed, relocated, or reconstructed as shown on the Plans or as may be ordered in the course of the Work. Payment for this Work will be made at the applicable prices in the Contract Documents unless otherwise specifically provided. If approval is given by the Engineer to a request by the Contractor to effect a temporary or permanent relocation of structures, for the Contractor's own convenience, and satisfactory arrangements can be made with the owners thereof, this Work will be done at the expense of the Contractor.

T. Abandonment of Structures:

In the case of structures, the service of which is permanently abandoned, the Engineer will designate which of the materials are to be salvaged and which are to be abandoned in the trench or otherwise disposed of. The Contractor shall remove and deliver to a designated point of storage materials ordered to be salvaged, and payment therefore will be made at the appropriate prices of the Contract, unless otherwise specifically provided. The Contractor shall allow owners of privately owned structures reasonable facilities for salvaging their property.

U. Insulation for Construction Projects:

All Insulation incorporated into the Project **must** contain the minimum percentage of postconsumer recovered paper or recovered material a shown below for the applicant product.

Material Type:	Percent by Weight:
Cellulose loose – fill and spray on	75% postconsumer recovered paper
Perlite Composite Board	23% postconsumer recovered paper
Plastic rigid foam, polyisocyanurate/polyurethane	
Rigid Foam	9% recovered material
Foam-in-Place	5% recovered material
Glass Rigid Foam	6% recovered material
Phenolic Rigid Foam	5% recovered material
Rock Wool	50% recovered material

Postconsumer recovered paper is defined as “Any paper, paperboard and fibrous wastes from retail stores, office buildings, homes and so forth, after they have been passed through their end-usage as a consumer item including; used corrugated boxes, old newspapers, old magazines, mixed waste paper, tabulating cards and used cordage, as well as all paper, paperboard, and fibrous wastes that enter and are collected from municipal solid waste.”

Recovered materials are defined as “waste material and byproducts which have been recovered or diverted from solid waste, but such term does not include those materials and byproducts generated from, and commonly reused within, an original manufacturing process.”

The Contractor may be required to provide PhilaPort with documentary evidence that the insulation provided for the Project was produced with the required minimum percentage of postconsumer recovered paper or recovered material.

Prevailing Wage Rates

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project Name:	Replacement of Fabric Membrane at Tioga IV Warehouse
Awarding Agency:	Philadelphia Regional Port Authority
Contract Award Date:	7/21/2023
Serial Number:	23-04744
Project Classification:	Building
Determination Date:	5/18/2023
Assigned Field Office:	Philadelphia
Field Office Phone Number:	(215)560-1858
Toll Free Phone Number:	
Project County:	Philadelphia County

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 23-04744 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Asbestos & Insulation Workers	5/1/2021		\$54.35	\$39.95	\$94.30
Asbestos & Insulation Workers	6/1/2023		\$57.84	\$43.36	\$101.20
Boilermaker (Commercial, Institutional, and Minor Repair Work)	1/1/2019		\$29.26	\$18.48	\$47.74
Boilermakers	1/1/2022		\$50.17	\$35.30	\$85.47
Boilermakers	1/1/2023		\$51.27	\$35.30	\$86.57
Bricklayer	5/1/2021		\$45.45	\$30.76	\$76.21
Bricklayer	5/1/2022		\$46.45	\$31.21	\$77.66
Carpenter - Chief of Party (Surveying & Layout)	5/1/2022		\$58.36	\$28.96	\$87.32
Carpenter - Chief of Party (Surveying & Layout)	5/1/2023		\$60.54	\$29.27	\$89.81
Carpenter - Chief of Party (Surveying & Layout)	5/1/2024		\$62.83	\$29.27	\$92.10
Carpenter - Chief of Party (Surveying & Layout)	5/1/2025		\$65.14	\$29.27	\$94.41
Carpenter - Instrument Person (Surveying & Layout)	5/1/2021		\$49.50	\$28.96	\$78.46
Carpenter - Instrument Person (Surveying & Layout)	5/1/2022		\$50.75	\$28.96	\$79.71
Carpenter - Instrument Person (Surveying & Layout)	5/1/2023		\$52.64	\$29.27	\$81.91
Carpenter - Instrument Person (Surveying & Layout)	5/1/2024		\$54.64	\$29.27	\$83.91
Carpenter - Instrument Person (Surveying & Layout)	5/1/2025		\$56.64	\$29.27	\$85.91
Carpenter - Rodman (Surveying & Layout)	5/1/2021		\$24.75	\$20.56	\$45.31
Carpenter - Rodman (Surveying & Layout)	5/1/2022		\$25.38	\$20.56	\$45.94
Carpenter - Rodman (Surveying & Layout)	5/1/2023		\$26.32	\$20.87	\$47.19
Carpenter - Rodman (Surveying & Layout)	5/1/2024		\$27.32	\$20.87	\$48.19
Carpenter - Rodman (Surveying & Layout)	5/1/2025		\$28.32	\$20.87	\$49.19
Carpenters	5/1/2022		\$50.75	\$28.96	\$79.71
Carpenters	5/1/2023		\$52.64	\$29.27	\$81.91
Carpenters	5/1/2024		\$54.64	\$29.27	\$83.91
Carpenters	5/1/2025		\$56.64	\$29.27	\$85.91
Cement Finishers & Plasterers	5/1/2022		\$41.97	\$32.40	\$74.37
Cement Masons	5/1/2022		\$42.05	\$33.46	\$75.51
Cement Masons	5/1/2023		\$44.20	\$32.96	\$77.16
Dockbuilder, Pile Drivers	5/1/2023		\$50.48	\$37.99	\$88.47
Dockbuilder, Pile Drivers	5/1/2024		\$52.98	\$37.99	\$90.97
Dockbuilder, Pile Drivers	5/1/2025		\$55.23	\$37.99	\$93.22
Dockbuilder, Pile Drivers	5/1/2026		\$56.98	\$37.99	\$94.97
Dockbuilder/ Pile driver diver	5/1/2023		\$63.10	\$37.99	\$101.09
Dockbuilder/ Pile driver diver	5/1/2024		\$66.25	\$37.99	\$104.24
Dockbuilder/ Pile driver diver	5/1/2025		\$69.04	\$37.99	\$107.03
Dockbuilder/ Pile driver diver	5/1/2026		\$71.23	\$37.99	\$109.22
Dockbuilder/pile driver tender	5/1/2023		\$50.48	\$37.99	\$88.47
Dockbuilder/pile driver tender	5/1/2024		\$52.98	\$37.99	\$90.97
Dockbuilder/pile driver tender	5/1/2025		\$55.23	\$37.99	\$93.22
Dockbuilder/pile driver tender	5/1/2026		\$56.98	\$37.99	\$94.97
Drywall Finisher	5/1/2022		\$41.56	\$30.60	\$72.16
Drywall Finisher	5/1/2023		\$41.80	\$31.76	\$73.56
Electricians	5/3/2021		\$64.03	\$41.71	\$105.74
Electricians	5/2/2022		\$65.76	\$43.48	\$109.24

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 23-04744 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Electricians	5/1/2023		\$68.18	\$42.97	\$111.15
Electricians-Telecommunications Senior Technician	4/29/2019		\$57.78	\$27.22	\$85.00
Elevator Constructor	1/1/2021		\$61.43	\$36.36	\$97.79
Elevator Constructor	1/1/2023		\$66.21	\$43.64	\$109.85
Floor Coverer	5/1/2022		\$52.49	\$29.46	\$81.95
Floor Coverer	5/1/2023		\$54.74	\$29.46	\$84.20
Floor Coverer	5/1/2024		\$56.94	\$29.46	\$86.40
Glazier	5/1/2022		\$46.09	\$35.61	\$81.70
Glazier	5/1/2023		\$46.68	\$36.62	\$83.30
Interior Finish	5/1/2019		\$31.65	\$26.62	\$58.27
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2022		\$49.70	\$39.51	\$89.21
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	1/1/2023		\$50.70	\$39.51	\$90.21
Iron Workers (Riggers)	7/1/2017		\$41.78	\$27.92	\$69.70
Ironworker (Rodman)	7/1/2020		\$47.41	\$31.60	\$79.01
Laborer (Mason Tenders, Brick)	5/1/2017		\$29.77	\$26.00	\$55.77
Laborers (Class 01 - See notes)	5/1/2020		\$33.65	\$26.07	\$59.72
Laborers (Class 01 - See notes)	5/1/2022		\$35.20	\$26.82	\$62.02
Laborers (Class 02 - See notes)	5/1/2020		\$35.15	\$26.15	\$61.30
Laborers (Class 02 - See notes)	5/1/2022		\$36.70	\$27.00	\$63.70
Laborers (Class 03 - See notes)	5/1/2020		\$34.07	\$26.50	\$60.57
Laborers (Class 03 - See notes)	5/1/2022		\$35.62	\$27.05	\$62.67
Laborers (Class 04 - See notes)	5/1/2020		\$34.07	\$26.50	\$60.57
Laborers (Class 04 - See notes)	5/1/2022		\$35.62	\$27.05	\$62.67
Laborers (Class 05 - See notes)	5/1/2020		\$33.65	\$26.07	\$59.72
Laborers (Class 05 - See notes)	5/1/2022		\$35.20	\$26.82	\$62.02
Landscape Laborer	5/1/2020		\$26.55	\$23.13	\$49.68
Marble Finisher	5/1/2022		\$38.27	\$29.15	\$67.42
Marble Mason	5/1/2022		\$45.90	\$31.20	\$77.10
Mason Tender, Cement	5/1/2019		\$32.07	\$26.85	\$58.92
Millwright	5/1/2021		\$48.60	\$33.19	\$81.79
Millwright	5/1/2022		\$49.83	\$34.53	\$84.36
Operators (Building, Class 01 - See Notes)	5/1/2021		\$49.50	\$31.51	\$81.01
Operators (Building, Class 01 - See Notes)	5/1/2022		\$51.04	\$31.97	\$83.01
Operators (Building, Class 01 - See Notes)	5/1/2023		\$52.20	\$32.81	\$85.01
Operators (Building, Class 01A - See Notes)	5/1/2021		\$52.51	\$32.39	\$84.90
Operators (Building, Class 01A - See Notes)	5/1/2022		\$54.05	\$32.85	\$86.90
Operators (Building, Class 01A - See Notes)	5/1/2023		\$55.20	\$33.70	\$88.90
Operators (Building, Class 02 - See Notes)	5/1/2021		\$49.25	\$31.44	\$80.69
Operators (Building, Class 02 - See Notes)	5/1/2022		\$50.79	\$31.90	\$82.69
Operators (Building, Class 02 - See Notes)	5/1/2023		\$51.95	\$32.74	\$84.69
Operators (Building, Class 02A - See Notes)	5/1/2021		\$52.26	\$32.32	\$84.58
Operators (Building, Class 02A - See Notes)	5/1/2022		\$53.81	\$32.77	\$86.58
Operators (Building, Class 02A - See Notes)	5/1/2023		\$54.97	\$33.61	\$88.58

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 23-04744 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Building, Class 03 - See Notes)	5/1/2021		\$45.16	\$30.24	\$75.40
Operators (Building, Class 03 - See Notes)	5/1/2022		\$46.71	\$30.69	\$77.40
Operators (Building, Class 03 - See Notes)	5/1/2023		\$47.87	\$31.53	\$79.40
Operators (Building, Class 04 - See Notes)	5/1/2021		\$44.87	\$30.14	\$75.01
Operators (Building, Class 04 - See Notes)	5/1/2022		\$46.41	\$30.60	\$77.01
Operators (Building, Class 04 - See Notes)	5/1/2023		\$47.57	\$31.44	\$79.01
Operators (Building, Class 05 - See Notes)	5/1/2021		\$43.14	\$29.64	\$72.78
Operators (Building, Class 05 - See Notes)	5/1/2022		\$44.69	\$30.09	\$74.78
Operators (Building, Class 05 - See Notes)	5/1/2023		\$45.85	\$30.93	\$76.78
Operators (Building, Class 06 - See Notes)	5/1/2021		\$42.16	\$29.34	\$71.50
Operators (Building, Class 06 - See Notes)	5/1/2022		\$43.70	\$29.80	\$73.50
Operators (Building, Class 06 - See Notes)	5/1/2023		\$44.85	\$30.65	\$75.50
Operators (Building, Class 07A- See Notes)	5/1/2021		\$60.00	\$36.21	\$96.21
Operators (Building, Class 07A- See Notes)	5/1/2022		\$61.86	\$36.75	\$98.61
Operators (Building, Class 07A- See Notes)	5/1/2023		\$63.33	\$37.68	\$101.01
Operators (Building, Class 07B- See Notes)	5/1/2021		\$59.72	\$36.11	\$95.83
Operators (Building, Class 07B- See Notes)	5/1/2022		\$61.57	\$36.66	\$98.23
Operators (Building, Class 07B- See Notes)	5/1/2023		\$63.04	\$37.59	\$100.63
Painters Class 1 (see notes)	2/1/2022		\$41.77	\$31.61	\$73.38
Painters Class 1 (see notes)	5/1/2023		\$42.32	\$32.91	\$75.23
Painters Class 4 (see notes)	5/1/2022		\$41.77	\$31.61	\$73.38
Painters Class 4 (see notes)	5/1/2023		\$44.41	\$32.91	\$77.32
Plasterers	5/1/2021		\$41.52	\$31.85	\$73.37
Plumbers	5/1/2022		\$62.73	\$36.61	\$99.34
Plumbers	5/1/2023		\$64.73	\$37.61	\$102.34
Pointers, Caulkers, Cleaners	5/1/2021		\$46.75	\$29.50	\$76.25
Pointers, Caulkers, Cleaners	5/1/2022		\$47.64	\$30.06	\$77.70
Roofers (Composition)	5/1/2021		\$40.33	\$33.12	\$73.45
Roofers (Composition)	5/1/2022		\$41.48	\$33.87	\$75.35
Roofers (Composition)	5/1/2023		\$42.63	\$34.62	\$77.25
Roofers (Shingle)	5/1/2021		\$30.50	\$21.55	\$52.05
Roofers (Slate & Tile)	5/1/2021		\$33.50	\$21.55	\$55.05
Sheet Metal Workers	5/1/2021		\$53.84	\$45.94	\$99.78
Sheet Metal Workers	5/1/2022		\$55.75	\$47.28	\$103.03
Sign Makers and Hangars	7/17/2021		\$29.49	\$23.90	\$53.39
Sign Makers and Hangars	7/15/2022		\$30.54	\$24.35	\$54.89
Sprinklerfitters	5/1/2022		\$62.79	\$31.43	\$94.22
Sprinklerfitters	1/1/2023		\$62.23	\$31.99	\$94.22
Steamfitters	5/1/2021		\$60.47	\$40.89	\$101.36
Steamfitters	5/1/2022		\$64.57	\$40.59	\$105.16
Steamfitters	5/1/2023		\$67.37	\$41.99	\$109.36
Stone Masons	5/1/2021		\$44.90	\$30.75	\$75.65
Stone Masons	5/1/2022		\$45.90	\$31.20	\$77.10
Terrazzo Finisher	5/1/2022		\$42.44	\$27.71	\$70.15

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 23-04744 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Terrazzo Grinder	5/1/2022		\$42.71	\$27.71	\$70.42
Terrazzo Mechanics	5/1/2021		\$48.01	\$28.81	\$76.82
Terrazzo Mechanics	5/1/2022		\$48.81	\$29.46	\$78.27
Tile Finisher	5/1/2022		\$38.27	\$29.15	\$67.42
Tile Setter	5/1/2022		\$48.81	\$29.46	\$78.27
Truckdriver class 1(see notes)	5/1/2021		\$36.48	\$17.96	\$54.44
Truckdriver class 1(see notes)	5/1/2022		\$35.60	\$20.74	\$56.34
Truckdriver class 2 (see notes)	5/1/2021		\$36.58	\$17.96	\$54.54
Truckdriver class 2 (see notes)	5/1/2022		\$35.70	\$20.74	\$56.44
Truckdriver class 3 (see notes)	5/1/2021		\$36.83	\$17.96	\$54.79
Truckdriver class 3 (see notes)	5/1/2022		\$35.95	\$20.74	\$56.69
Window Film / Tint Installer	6/1/2019		\$24.52	\$12.08	\$36.60

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 23-04744 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Carpenter - Chief of Party (Surveying & Layout)	5/1/2022		\$60.71	\$29.06	\$89.77
Carpenter - Chief of Party (Surveying & Layout)	5/1/2023		\$63.24	\$29.06	\$92.30
Carpenter - Chief of Party (Surveying & Layout)	5/1/2024		\$65.19	\$29.06	\$94.25
Carpenter - Chief of Party (Surveying & Layout)	5/1/2025		\$67.15	\$29.06	\$96.21
Carpenter - Chief of Party (Surveying & Layout)	5/1/2026		\$69.10	\$29.06	\$98.16
Carpenter - Instrument Person (Surveying & Layout)	5/1/2022		\$52.79	\$29.06	\$81.85
Carpenter - Instrument Person (Surveying & Layout)	5/1/2023		\$54.99	\$29.06	\$84.05
Carpenter - Instrument Person (Surveying & Layout)	5/1/2024		\$56.69	\$29.06	\$85.75
Carpenter - Instrument Person (Surveying & Layout)	5/1/2025		\$58.39	\$29.06	\$87.45
Carpenter - Instrument Person (Surveying & Layout)	5/1/2026		\$60.09	\$29.06	\$89.15
Carpenter - Rodman (Surveying & Layout)	5/1/2022		\$42.23	\$22.41	\$64.64
Carpenter - Rodman (Surveying & Layout)	5/1/2023		\$43.99	\$22.41	\$66.40
Carpenter - Rodman (Surveying & Layout)	5/1/2024		\$45.35	\$22.41	\$67.76
Carpenter - Rodman (Surveying & Layout)	5/1/2025		\$46.71	\$22.41	\$69.12
Carpenter - Rodman (Surveying & Layout)	5/1/2026		\$48.07	\$22.41	\$70.48
Carpenter	5/1/2022		\$52.79	\$29.06	\$81.85
Carpenter	5/1/2023		\$54.99	\$29.06	\$84.05
Carpenter	5/1/2024		\$56.69	\$29.06	\$85.75
Carpenter	5/1/2025		\$58.49	\$29.06	\$87.55
Carpenter	5/1/2026		\$60.19	\$29.06	\$89.25
Cement Masons	5/1/2021		\$39.65	\$33.41	\$73.06
Cement Masons	5/1/2022		\$41.15	\$33.41	\$74.56
Cement Masons	5/1/2023		\$43.20	\$32.91	\$76.11
Dockbuilder, Pile Drivers	5/1/2023		\$50.48	\$37.99	\$88.47
Dockbuilder, Pile Drivers	5/1/2024		\$52.98	\$37.99	\$90.97
Dockbuilder, Pile Drivers	5/1/2025		\$55.23	\$37.99	\$93.22
Dockbuilder, Pile Drivers	5/1/2026		\$56.98	\$37.99	\$94.97
Dockbuilder/ Pile driver diver	5/1/2023		\$63.10	\$37.99	\$101.09
Dockbuilder/ Pile driver diver	5/1/2024		\$66.25	\$37.99	\$104.24
Dockbuilder/ Pile driver diver	5/1/2025		\$69.04	\$37.99	\$107.03
Dockbuilder/ Pile driver diver	5/1/2026		\$71.23	\$37.99	\$109.22
Dockbuilder/pile driver tender	5/1/2023		\$50.48	\$37.99	\$88.47
Dockbuilder/pile driver tender	5/1/2024		\$52.98	\$37.99	\$90.97
Dockbuilder/pile driver tender	5/1/2025		\$55.23	\$37.99	\$93.22
Dockbuilder/pile driver tender	5/1/2026		\$56.98	\$37.99	\$94.97
Electric Lineman	5/30/2022		\$59.17	\$31.48	\$90.65
Electric Lineman	5/29/2023		\$60.48	\$32.77	\$93.25
Electric Lineman	6/3/2024		\$62.07	\$33.96	\$96.03
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2022		\$49.70	\$39.51	\$89.21
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	1/1/2023		\$50.70	\$39.51	\$90.21
Ironworker (Rodman)	7/1/2020		\$47.41	\$31.60	\$79.01
Laborers (Class 01 - See notes)	5/1/2021		\$36.20	\$25.65	\$61.85
Laborers (Class 01 - See notes)	5/1/2022		\$36.30	\$27.20	\$63.50

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 23-04744 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Laborers (Class 02 - See notes)	5/1/2021		\$36.40	\$25.65	\$62.05
Laborers (Class 02 - See notes)	5/1/2022		\$36.50	\$27.20	\$63.70
Laborers (Class 03 - See notes)	5/1/2021		\$36.40	\$25.65	\$62.05
Laborers (Class 03 - See notes)	5/1/2022		\$36.50	\$27.20	\$63.70
Laborers (Class 04 - See notes)	5/1/2021		\$31.00	\$25.65	\$56.65
Laborers (Class 04 - See notes)	5/1/2022		\$31.10	\$27.20	\$58.30
Laborers (Class 05 - See notes)	5/1/2021		\$37.05	\$25.65	\$62.70
Laborers (Class 05 - See notes)	5/1/2022		\$37.15	\$27.20	\$64.35
Laborers (Class 06 - See notes)	5/1/2021		\$37.10	\$25.65	\$62.75
Laborers (Class 06 - See notes)	5/1/2022		\$37.20	\$27.20	\$64.40
Laborers (Class 07 - See notes)	5/1/2021		\$36.95	\$25.65	\$62.60
Laborers (Class 07 - See notes)	5/1/2022		\$37.05	\$27.20	\$64.25
Laborers (Class 08 - See notes)	5/1/2021		\$36.70	\$25.65	\$62.35
Laborers (Class 08 - See notes)	5/1/2022		\$36.80	\$27.20	\$64.00
Laborers (Class 09 - See notes)	5/1/2021		\$36.55	\$25.65	\$62.20
Laborers (Class 09 - See notes)	5/1/2022		\$36.65	\$27.20	\$63.85
Laborers (Class 10- See notes)	5/1/2021		\$36.70	\$25.65	\$62.35
Laborers (Class 10- See notes)	5/1/2022		\$36.80	\$27.20	\$64.00
Laborers (Class 11 -See Notes)	5/1/2021		\$36.50	\$25.65	\$62.15
Laborers (Class 11 -See Notes)	5/1/2022		\$36.70	\$27.20	\$63.90
Laborers (Class 12 -See Notes)	5/1/2021		\$37.40	\$25.65	\$63.05
Laborers (Class 12 -See Notes)	5/1/2022		\$38.40	\$27.20	\$65.60
Laborers (Class 13 -See Notes)	5/1/2021		\$40.33	\$25.65	\$65.98
Laborers (Class 13 -See Notes)	5/1/2022		\$40.43	\$27.20	\$67.63
Laborers (Class 14 -See Notes)	5/1/2021		\$36.45	\$25.65	\$62.10
Laborers (Class 14 -See Notes)	5/1/2022		\$36.55	\$27.20	\$63.75
Laborers Utility (PGW ONLY) (Flagperson)	5/1/2017		\$23.52	\$17.58	\$41.10
Laborers Utility (PGW ONLY) (Flagperson)	5/1/2022		\$30.17	\$19.18	\$49.35
Laborers Utility (PGW ONLY)	5/1/2022		\$37.20	\$19.18	\$56.38
Landscape Laborer	5/1/2020		\$26.13	\$22.95	\$49.08
Landscape Laborer	5/1/2022		\$27.73	\$23.65	\$51.38
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2021		\$49.50	\$31.51	\$81.01
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2022		\$51.04	\$31.97	\$83.01
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2023		\$52.20	\$32.81	\$85.01
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2024		\$53.36	\$33.65	\$87.01
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2025		\$54.52	\$34.49	\$89.01
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2026		\$55.67	\$35.34	\$91.01
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2021		\$52.51	\$32.39	\$84.90
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2022		\$54.05	\$32.85	\$86.90

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 23-04744 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2023		\$55.20	\$33.70	\$88.90
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2024		\$56.37	\$34.53	\$90.90
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2025		\$57.52	\$35.38	\$92.90
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2026		\$58.68	\$36.22	\$94.90
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2021		\$49.25	\$31.44	\$80.69
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2022		\$50.79	\$31.90	\$82.69
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2023		\$51.95	\$32.74	\$84.69
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2024		\$53.11	\$33.58	\$86.69
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2025		\$54.27	\$34.42	\$88.69
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2026		\$55.43	\$35.26	\$90.69
Operators Class 02a - See Notes (Building, Heavy, Highway)	5/1/2021		\$52.27	\$32.31	\$84.58
Operators Class 02a - See Notes (Building, Heavy, Highway)	5/1/2022		\$53.81	\$32.77	\$86.58
Operators Class 02a - See Notes (Building, Heavy, Highway)	5/1/2023		\$54.97	\$33.61	\$88.58
Operators Class 02a - See Notes (Building, Heavy, Highway)	5/1/2024		\$56.13	\$34.45	\$90.58
Operators Class 02a - See Notes (Building, Heavy, Highway)	5/1/2025		\$57.29	\$35.29	\$92.58
Operators Class 02a - See Notes (Building, Heavy, Highway)	5/1/2026		\$58.44	\$36.14	\$94.58
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2021		\$45.16	\$30.24	\$75.40
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2022		\$46.71	\$30.69	\$77.40
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2023		\$47.87	\$31.53	\$79.40
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2024		\$49.03	\$32.37	\$81.40
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2025		\$50.18	\$33.22	\$83.40
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2026		\$51.34	\$34.06	\$85.40
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2021		\$44.86	\$30.15	\$75.01
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2022		\$46.41	\$30.60	\$77.01
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2023		\$47.57	\$31.44	\$79.01
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2024		\$48.73	\$32.28	\$81.01
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2025		\$49.88	\$33.13	\$83.01

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 23-04744 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2026		\$51.04	\$33.97	\$85.01
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2021		\$43.14	\$29.64	\$72.78
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2022		\$44.69	\$30.09	\$74.78
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2023		\$45.85	\$30.93	\$76.78
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2024		\$47.00	\$31.78	\$78.78
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2025		\$48.16	\$32.62	\$80.78
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2026		\$49.32	\$33.46	\$82.78
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2021		\$42.16	\$29.34	\$71.50
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2022		\$43.70	\$29.80	\$73.50
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2023		\$44.85	\$30.65	\$75.50
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2024		\$46.02	\$31.48	\$77.50
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2025		\$47.17	\$32.33	\$79.50
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2026		\$48.34	\$33.16	\$81.50
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2021		\$60.00	\$36.21	\$96.21
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2022		\$61.86	\$36.75	\$98.61
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2023		\$63.33	\$37.68	\$101.01
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2024		\$64.80	\$38.61	\$103.41
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2025		\$66.26	\$39.55	\$105.81
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2026		\$67.73	\$40.48	\$108.21
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2021		\$59.72	\$36.11	\$95.83
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2022		\$61.57	\$36.66	\$98.23
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2023		\$63.04	\$37.59	\$100.63
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2024		\$64.50	\$38.53	\$103.03
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2025		\$65.97	\$39.46	\$105.43
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2026		\$67.44	\$40.39	\$107.83
Painters Class 2 (see notes)	2/1/2022		\$48.62	\$30.29	\$78.91
Painters Class 2 (see notes)	2/1/2023		\$48.82	\$32.09	\$80.91
Painters Class 3 (see notes)	2/1/2022		\$59.58	\$30.33	\$89.91

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 23-04744 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Painters Class 3 (see notes)	2/1/2023		\$59.78	\$32.13	\$91.91
Steamfitters (Heavy and Highway - Gas Distribution)	5/1/2022		\$64.57	\$40.28	\$104.85
Truckdriver class 1(see notes)	5/1/2021		\$36.33	\$17.96	\$54.29
Truckdriver class 1(see notes)	5/1/2022		\$35.45	\$20.74	\$56.19
Truckdriver class 2 (see notes)	5/1/2021		\$36.43	\$17.96	\$54.39
Truckdriver class 2 (see notes)	5/1/2022		\$35.55	\$20.74	\$56.29
Truckdriver class 3 (see notes)	5/1/2021		\$36.68	\$17.96	\$54.64
Truckdriver class 3 (see notes)	5/1/2022		\$35.80	\$20.74	\$56.54

APPENDIX C

Appendix C

Form For Submission of Price Proposal

I. MONETARY SECTION.

The undersigned, _____ (“Offeror”), having familiarized himself with the local conditions affecting the cost of the Work (as defined within the General Conditions) and with the RFP and Contract Documents, including all Appendices, hereby proposes to perform the Work, and to provide and furnish all labor, material, necessary tools, equipment, and all utility and transportation services necessary to perform and complete in a workmanlike manner all of the Work required to be performed for the following price:

Total Lumpsum Bid Price:

\$ _____
Total Lumpsum Bid Price in Figures

\$ _____
Total Lumpsum Bid Price in Words

II. SELF-PERFORMANCE:

The Offeror acknowledges by submission of this Proposal, that the Offeror shall perform a minimum of 20% of the cost of the direct labor required to perform the contract (not including the cost of materials, equipment, supplies, administrative or overhead costs) with their own employees. The bidder shall submit with his bid a complete description of the direct labor that will be performed (e.g., earthwork, paving, brickwork, roofing, etc.), the percentage of the total direct labor this represents, and the estimated dollar value thereof, as set forth below:

The Offeror shall self-perform the following Work:

Percentage of Work to be self-performed by Offeror: _____ %

Estimate cost of Work to be self-performed by Offeror: \$ _____

Appendix D

Form For Submission of Diversity and Inclusion Participation

APPENDIX D

DIVERSITY AND INCLUSION PLAN FOR PROJECT 23-059.1

The Prime Contractor shall submit the Diversity Solicitation and Commitment Statement attached as Exhibit 1 to this Appendix with its bid, showing efforts made to solicit diverse Subcontractors, and written confirmations of the intent to use the identified Subcontractors if awarded the prime contract. Prime Contractor's Diversity Contact/Solicitation and Commitment Statement shall include the names of all companies and individuals contacted or solicited for participation in the project, the type of work, material, supplies or equipment involved in the solicitation, the total dollar amount of each quote received, the date of solicitation, and, where applicable, the total dollar amount of each subcontract that would be awarded.

Offerors must demonstrate they have made a good faith effort to solicit from a diverse pool of contractors and suppliers. If the Prime Contractor's efforts have resulted in a failure to obtain diversity in contracting, the Prime Contractor shall document why it was not feasible by submitting evidence that failure to achieve diversity participation was not motivated by consideration of race or gender, or other disadvantaged status; that diverse contractors were not treated less favorably than others; that solicitation and commitment decisions were not based upon policies which disparately affect diverse firms. Justification for not achieving any diversity in contracting may include impediments encountered despite actions taken.

PhilaPort has the responsibility to comply with the requirements under this Plan and ensure non-discrimination in the selection of Subcontractors, and in the administration of the project.

Prime Contractor has the responsibility to meet its commitments made during bidding by utilizing each Subcontractor it selected to the full extent of the subcontract value. The failure to meet minimum participation levels at the completion of the project will result in the imposition of liquidated damages in the amount of 10% of the dollar amount of the shortfall in the commitment to compensate PhilaPort for the administrative costs of addressing the deficiency and not as a penalty.

PhilaPort will evaluate diversity commitments of every Offeror's submission. Each Offeror's diversity commitment will be calculated using a ratio method. The Offeror with the highest amount of diversity commitment achieved will receive the full allotment of points for diversity.

PhilaPort will consider a business to be a Historically Underutilized Business (HUB) if they are certified in any of the following categories of inclusion:

1. a Minority owned Business Enterprise (MBE)
2. a Women owned Business Enterprise (WBE)
3. a Veteran or Service-Disabled owned Business Enterprise (VOSB or SDVOSB)
4. a LGBT owned Business Enterprise (LGBTBE)

PhilaPort accepts approved third-party certifications from any of the following entities:

- Woman's Business Enterprise National Council (WBENC)
- National Minority Supplier Development Council (NMSDC)
- United States Small Business Administration (SBA) 8(a) Program *
- Vets First Verification Program at vetbiz.gov
- US Business Leadership Network (USBLN)
- National Gay & Lesbian Chamber of Commerce (NGLCC)

Exhibit 1

Diversity Solicitation and Commitment Statement

EXHIBIT 1
DIVERSITY SOLICITATION AND COMMITMENT STATEMENT
Instructions and Explanation of Columns

Project owners and all prime bidders will complete this form to document all businesses solicited and all businesses that provided solicited or unsolicited quotes for project-related contracts.

1. Provide your company name, address, telephone number.
2. Provide the project name, project number, bid opening date, contract award date, and a contact person's name.
3. For each business solicited and each quote/bid received, enter the firm name, Employer Identification Number (EIN) or Social Security Number (SSN) for a sole proprietorship, telephone number with area code, and e-mail address. Only the company's name is a mandatory item.
4. Indicate whether or not the firm is an MBE, a WBE, Veteran or Service-Disabled Veteran Business Enterprise, or LGBT Business Enterprise. Place a check mark in only one of the appropriate MBE, WBE, Veteran or Service-Disabled Veteran Business Enterprise or LGBT Business Enterprise, add the identity of the certifying entity and the company's certification number.
5. Indicate the type of work to be performed and/or material to be supplied.
6. Enter whether a quote was supplied by subcontractor or supplier. If quote received, enter the total dollar amount of the quote received.
7. Enter the total dollar (\$) amount of the commitment which you have made to the MBE, WBE, Veteran or Service-Disabled Veteran Business Enterprise or LGBT Business Enterprise. If no amount is provided in this space, it will be presumed that your firm made no commitment to the MBE, WBE, Veteran or Service-Disabled Veteran Business Enterprise or LGBT Business Enterprise.
8. NOTE: You must include information on both solicited and unsolicited quotes. Failure to include a firm providing solicited or unsolicited quotes may result in the rejection of the bid or a determination that you are not a responsible contractor. Adequate time equivalent to that provided to other Subcontractor proposers must be provided for Diverse Subcontractors and suppliers to respond to bids.
9. Indicate the name, telephone number and e-mail address of the person(s) who prepared the form.

**EXHIBIT 1
DIVERSITY SOLICITATION AND COMMITMENT STATEMENT**

OWNER / PRIME BIDDER'S FIRM NAME (1)						PROJECT NAME (2)				
ADDRESS						BID OPENING DATE			CONTRACT AWARD DATE	
TELEPHONE NUMBER						CONTACT PERSON				
*(3)	(4)	(4)	(4)	(4)	(4)	(4)	(5)	(6)	(6)	*(7)
Company Name EIN/SSN Telephone Number	Date of Sub Solicitation	MBE	WBE	Veteran/ Service- Disabled Veteran	LGBT	Certification Program and Number	Type Of Work to Be Performed And/or Material To Be Supplied	Quote Received (Yes/No)	Total Dollar Amount of Quote Received	Total Commitment to Sub Dollar Amount
(8) Note: List those certified Diverse Subcontractors from which you solicited quotes, or which contacted you and gave you quotes in regard to this invitation to bid. Contact with Diverse Subcontractors should be at least equivalent to the notice given to other subcontractor proposers.										
(9) PREPARED BY (please print)						TELEPHONE NUMBER			E-MAIL	

*Use additional sheets, if necessary.

Exhibit 2

Prime Contractor's Diversity Monthly Reporting Form Summarizing Payments Made

EXHIBIT 2

Mandatory S. Submit Monthly

(Page 1 of 2)

Prime Contractor's Monthly HUB Payment Report

Name of Project _____

Contract No.: _____

Prime Original Contract Value: _____

Report for the Month of: _____

Change Orders (Overall Add/Deduct): _____

Notice to Proceed Date: _____

Total Contract Amount to Date: _____

Project Mgr. Name: _____

Total Payments Issued from _____ to _____ (date)

Assigned HUB Goal %: _____

Name of HUB Subcontractor	Work Task Performed	Original Contract Amount (\$)	Change Order Amount \$ (+/-)	Amount of Invoice Received this Month	Date of Invoice Received in this Month	Payments Made to HUB in this Month (\$)	Date(s) Payments Made this Month	Total HUB Payments Made to Date in \$	% Overall Work Finished	Final Payment (Y/N)
	Total(s) →	\$	\$	\$	Total(s)	\$	Total(s)	\$		

Itemize payments/invoices and dates if paid/received more than one payment/invoice between the 1st and 31st of this Month.

Prime Contractor Information:

Prime Firm Name: _____

Project Director Name: _____

Address: _____

Project Director Signature: _____

Telephone No.: _____ Date: _____

EIN # / TIN # _____

Prime's Past Due Invoice Information: List any invoice more than _____ days past due from the date **submitted** to _____ at the time you complete this form.

Invoice #	Invoice Date	Invoice Amount (\$)	No. of Days Past Due	Comments

Prime Contractor's Monthly HUB Payment Report

1. Have all HUB Subcontractors with executed subcontracts been paid amounts due from previous progress payments?

If Yes, skip the next section and go to Number 3.

If No, please complete fields in box below (use additional paper, if necessary)

Subcontractor Name	Amount Withheld from Invoice (\$)	Total of Invoice Amount (\$)	Invoice No.	Invoice Date	Specific Reason for Withholding

2. Have you notified the HUB Subcontractor(s) that you are withholding payment and the reason(s) why?

If Yes, provide a copy of written notification to the HUB Subcontractor with this form, indicating the date of notification.

If No, lack of prior written notification to the HUB(s) that you are withholding payment may violate the prompt payment clause guidelines.

Please contact the HUB immediately, and provide a copy of written notification to the Subcontractor with this form.

3. By signing this form, I certify that all of the above represent true and accurate information.

Project Director Name (Print)

Project Director (Signature)

____/____/____
Date

Additional Reasons/Comments for Withholding Payment:

DO NOT WRITE BELOW

This Form is Due on the ____ of each Month.

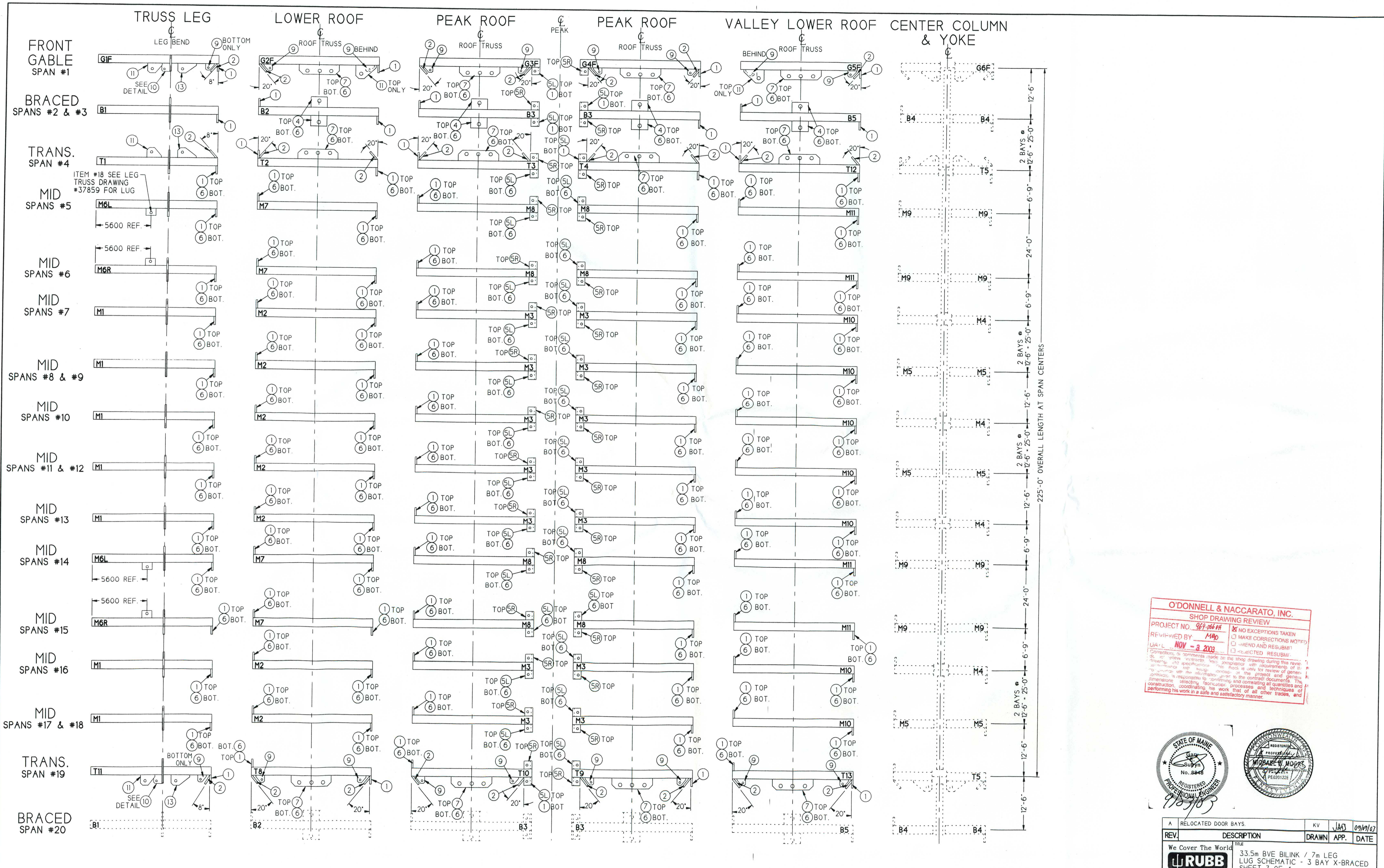
Please forward to: _____

Approved

Denied

Appendix E

Reference Drawings



FRONT GABLE SPAN #1
 BRACED SPANS #2 & #3
 TRANS. SPAN #4
 MID SPANS #5
 MID SPANS #6
 MID SPANS #7
 MID SPANS #8 & #9
 MID SPANS #10
 MID SPANS #11 & #12
 MID SPANS #13
 MID SPANS #14
 MID SPANS #15
 MID SPANS #16
 MID SPANS #17 & #18
 TRANS. SPAN #19
 BRACED SPAN #20

ITEM #18 SEE LEG TRUSS DRAWING #37859 FOR LUG

SHOP NOTES:
 1.) ITEM #1 & ITEM #9 TOP & BOTTOM UNLESS NOTED OTHERWISE.
 2.) CENTER GIRDERS SHOWN REPRESENTATIVELY, FOR REFERENCE ONLY.

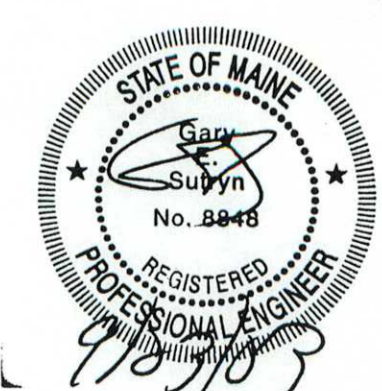
SCHEMATIC PLAN VIEW

RIVER SIDE
 SOUTHEAST QUADRANT
 NOT TO SCALE



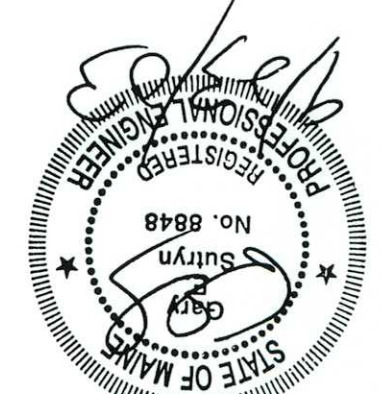
- NOTES:
 1.) SEE DRAWINGS 37857, 37858, 37860 & 37861 FOR ROOF TRUSS DETAILS.
 2.) SEE DRAWING 37856 & 37859 FOR LEG TRUSS DETAILS.
 3.) SEE DRAWING 11006 FOR GENERAL WELDING NOTES.
 4.) SEE DRAWING 37885 FOR LUG AND WELDING DETAILS.
 5.) BREAK SHARP CORNERS FOR PVC.

O'DONNELL & NACCARATO, INC.
 SHOP DRAWING REVIEW
 PROJECT NO. 887.06.04
 REVIEWED BY: MAB
 DATE: NOV - 3 2003
 NO EXCEPTIONS TAKEN
 MAKE CORRECTIONS NOTED
 RE-SEND AND RESUBMIT
 REJECTED RESUBMIT



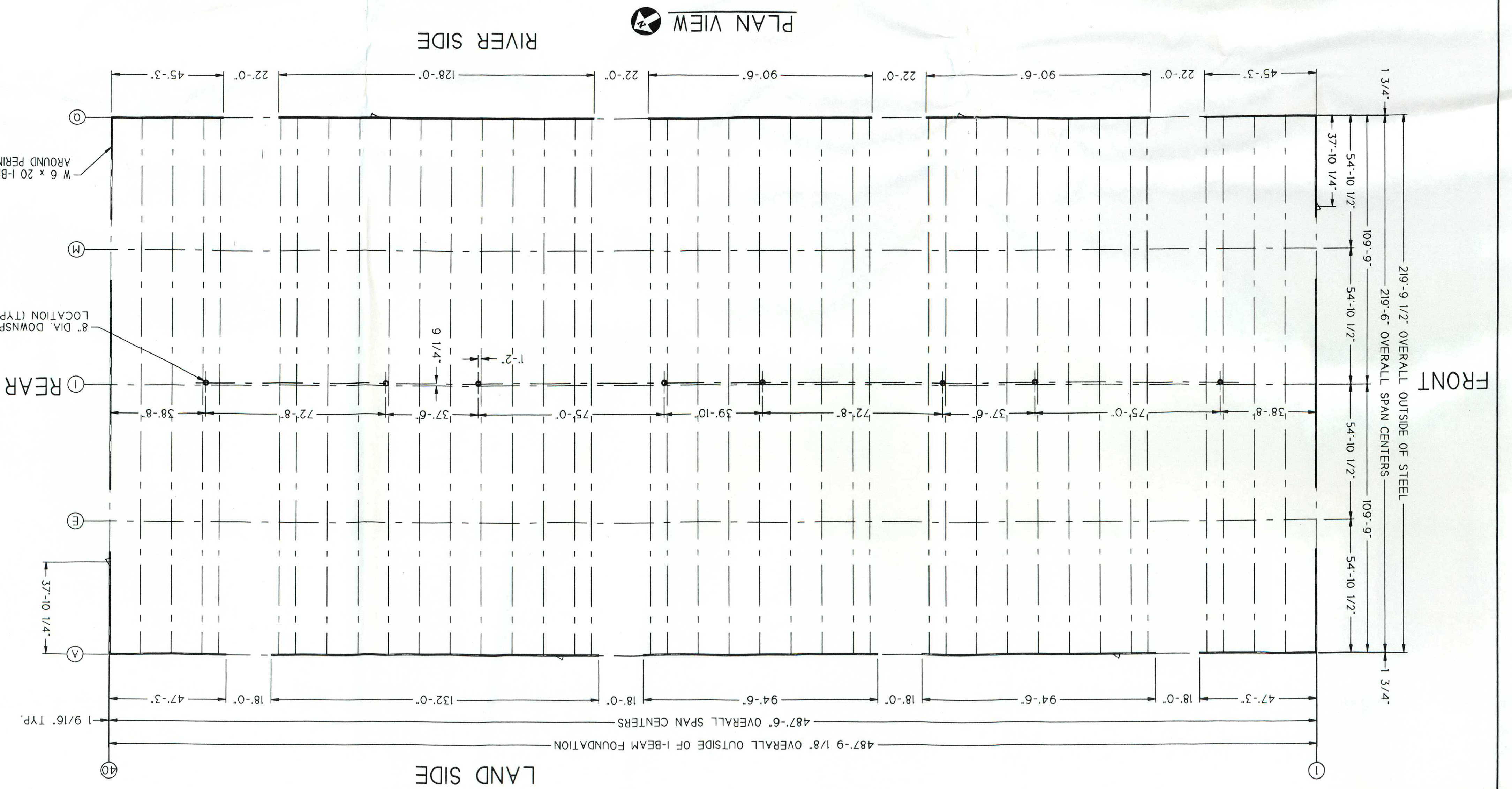
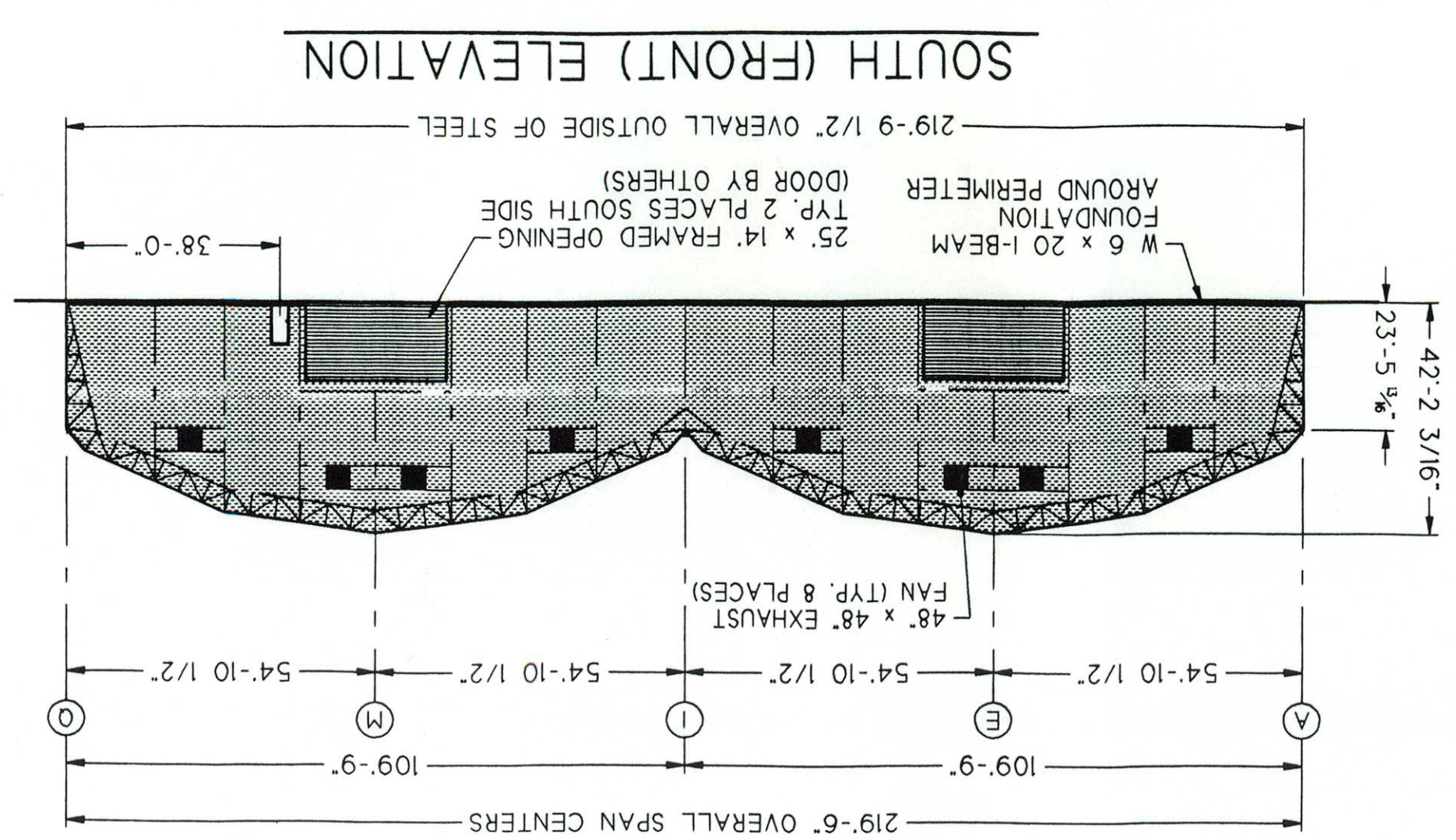
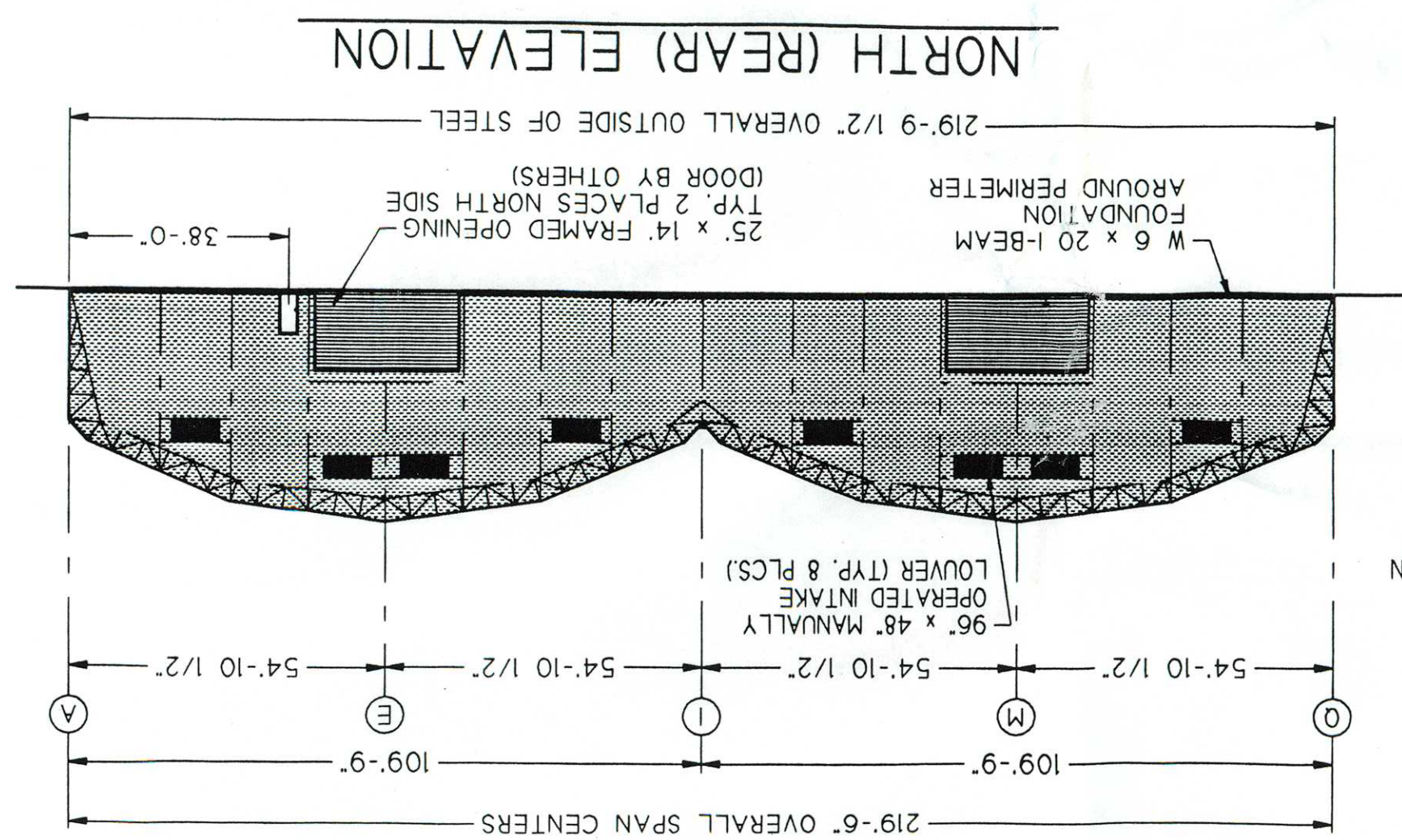
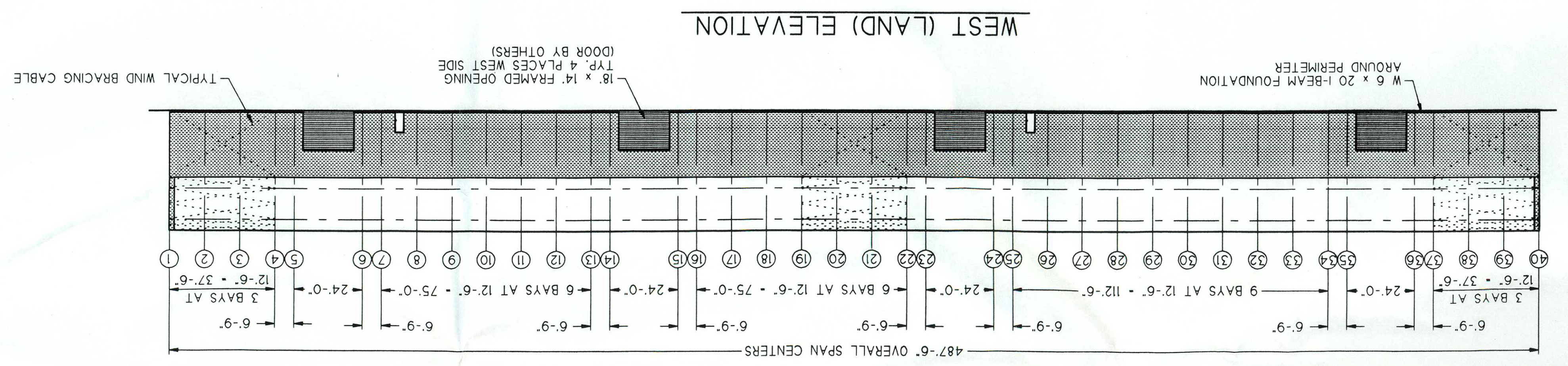
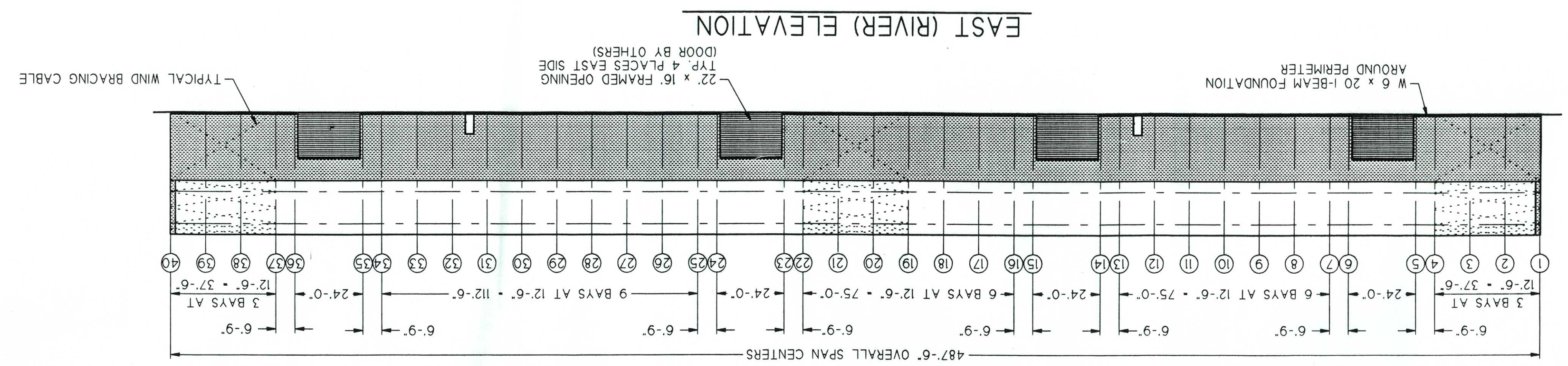
REV.	DESCRIPTION	DRAWN	APP.	DATE
A	RELOCATED DOOR BAYS.	KV	JMS	09/10/07
<p>RUBB BUILDING SYSTEMS</p> <p>We Cover The World</p> <p>33.5m BVE BILINK / 7m LEG LUG SCHEMATIC - 3 BAY X-BRACED SHEET 3 OF 4</p>				
DRAWN	SCALE	This drawing is the property of Rubb, Inc. and may not be reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.		
APP.	JOB #	03088		
DATE	JOB NAME	JMG		
<p>RUBB, INC. SANFORD MAINE 04073 TEL: 207-324-2877 FAX 207-324-2347</p>				
				37930

37854	RUBB, INC. SANFORD MAINE 04073 TEL. 207-324-2877 FAX 207-324-2347	
DRAWING NO.	DATE	BY
37854	JMG	JMG
SCALE	APP.	DATE
1:325	AR	8-8-03
BUILDING SYSTEMS		
PLAN VIEW AND ELEVATIONS		
33.5m BVE BLINK / 7m LEG		
We Cover The World		
REV	DESCRIPTION	DATE
B	REVISED QUANTITY OF FANS AND LOUVERS	9-1-03
A	REVISED DOOR LOCATIONS PER CUSTOMER REQUEST	9-9-03
	DRAWN	DATE
	MJG	9-9-03



NOTES:
 1) COVERING MATERIAL IS A PVC IMPREGNATED POLYESTER WEAVE FABRIC SELF EXTINGUISHING TO FEDERAL TEST STANDARD 191 METHOD 5903 AND COMPLES WITH NFPA STANDARD 701, UBC 55-1 AND CALIFORNIA STATE FIRE MARSHALL'S OFFICE.
 2) STRUCTURAL FRAMEWORK IS GALVANIZED TUBULAR STEEL TRUSS FRAMES INTERCONNECTED WITH GALVANIZED TUBULAR STEEL PURLINS. STEEL PLATE AND SHAPES ARE A36. STEEL TUBING IS A500.
 3) SEE DRAWING 37867 FOR I-BEAM FOUNDATION LAYOUT.
 4) SEE DRAWING 37894 FOR GROUND ANCHOR LAYOUT.
 5) SEE DRAWING 38006 FOR CONCRETE FOUNDATION DETAILS.
 6) EACH FAN IS RATED AT 22500 CFM. ASSUMING AN EMPTY BUILDING QUANTITY OF FANS AND LOUVERS AS SHOWN WILL RESULT IN APPROXIMATELY 2.5 AIR EXCHANGES PER HOUR.

SHOP DRAWING REVIEW
 PROJECT NO. 96406
 NO EXCEPTIONS TAKEN
 REVIEWED BY: MJO
 DATE: NOV - 3 2003
 MAKE CORRECTIONS
 NO EXEMPTIONS TAKEN
 O'DONNELL & MACCARATO, INC.



INDEX OF DRAWINGS

DRAWING	REV.	DESCRIPTION	SIZE
37854	B	PLAN VIEW & ELEVATIONS	D
37856	D	LEG TRUSS - 12'-6" BAYS	D
37857	-	LOWER ROOF TRUSS - 12'-6" BAYS	D
37858	A	UPPER ROOF TRUSS - 12'-6" BAYS	D
37859	B	LEG TRUSS - 24' 0" BAYS	D
37860	B	LOWER ROOF TRUSS - 24'-0" BAYS	D
37861	A	UPPER ROOF TRUSS - 24'-0" BAYS	D
37862	-	FRONT GABLE STEEL LAYOUT - SOUTHEAST	D
37867	C	I-BEAM FOUNDATION LAYOUT	D
37878	-	SINGLE YOKE ASSEMBLY - 12'-6" BAYS	D
37879	-	DOUBLE YOKE ASSEMBLY - 12'-6" BAYS	D
37880	-	SINGLE YOKE ASSEMBLY - 24'-0" BAYS	D
37882	-	37'-6" CENTRAL GIRDER - 12'-6" BAYS w/ CABLE LUG	D
37883	-	37'-6" CENTRAL GIRDER - 24'-0" & 6'-9" BAYS	D
37884	A	LUG SCHEMATIC - SOUTHWEST QUADRANT	D
37885	A	LUG SCHEMATIC DETAILS	D
37886	B	STEEL LAYOUT	D
37894	-	GROUND ANCHOR LAYOUT	D
37901	B	PVC SCHEMATIC	D
37905	-	LOWER CENTER COLUMNS	C
37910	-	PEAK AXIAL STEEL - 12'-6" BAYS	D
37911	B	NON PEAK AXIAL STEEL - 12'-6" BAYS	D
37912	A	AXIAL STEEL - 6'-9" BAYS	D
37913	A	VALLEY AXIAL STEEL - 12'-6" BAYS	D
37914	-	NON PEAK AXIAL STEEL - 24'-0" BAYS	D
37915	-	PEAK AXIAL STEEL - 24'-0" BAYS	D
37916	-	AXIAL STEEL FITUP AND BOLTING - 1 OF 3	D
37917	-	AXIAL STEEL FITUP AND BOLTING - 2 OF 3	D
37918	-	AXIAL STEEL FITUP AND BOLTING - 3 OF 3	D
37929	A	LUG SCHEMATIC - NORTHWEST QUADRANT	D
37930	A	LUG SCHEMATIC - SOUTHEAST QUADRANT	D
37931	A	LUG SCHEMATIC - NORTHEAST QUADRANT	D
37941	-	37'-6" CENTRAL GIRDER - 12'-6" BAYS - WITHOUT CABLE LUGS	D
37942	-	VALLEY LOWER ROOF TRUSS - 12'-6" BAYS	D
37950	A	VALLEY LOWER ROOF TRUSS - 24'-0" BAYS	D
37952	-	WIND BRACING CABLE ISOMETRIC	D
37953	-	NODE RESTRAINT ISOMETRIC - 1 OF 2	D
37955	-	WIND BRACING CABLES - SINGLE CABLES	A
37956	-	WIND BRACING CABLES - DOUBLE CABLES	A
37957	-	NODE RESTRAINT ISOMETRIC - 2 OF 2	D
37960	-	NODE RESTRAINT CABLES - DOUBLE CABLES	A
37976	-	PURLIN PROFILE - 1 OF 4	D
37977	-	NODE RESTRAINT CABLES - SINGLE CABLES	A
37984	-	TENSIONING & SEALING DETAILS	D
37985	-	22' x 16' SIDE ROLLER SHUTTER DOOR STEEL	D
37986	-	18' x 14' SIDE ROLLER SHUTTER DOOR STEEL	D
37987	-	PURLIN PROFILE - 2 OF 4	D
37988	-	PURLIN PROFILE - 3 OF 4	D
37989	-	PURLIN PROFILE - 4 OF 4	D
38006	-	CONCRETE FOUNDATION LAYOUT	D
38009	-	CABLE PLATE	B
38011	-	GABLE DOUBLE YOKE ASSEMBLY	D
38018	-	CONCRETE FOUNDATION DETAILS	D
38026	-	VALLEY NON-PEAK AXIAL FRAME - 12'-6" BAY	D
38033	-	COVER SHEET	D
38036	-	VALLEY NON-PEAK AXIAL FRAME - 24'-0" BAY	D

JMG EXCAVATING & CONSTRUCTION

TIOGA MARINE TERMINAL

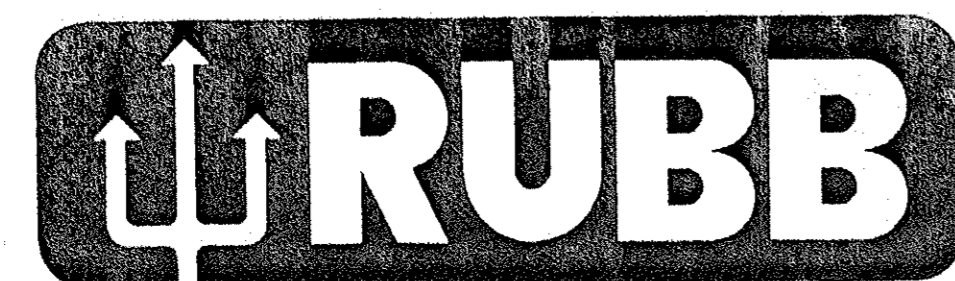
PHILADELPHIA, PA.

219'-6" BVE BILINK / 7m LEG x 487'-6" LONG

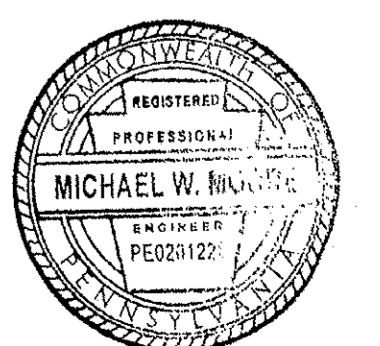
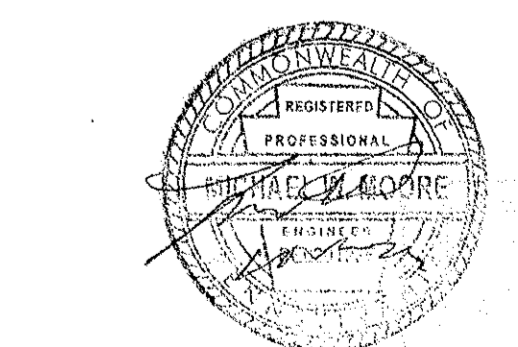
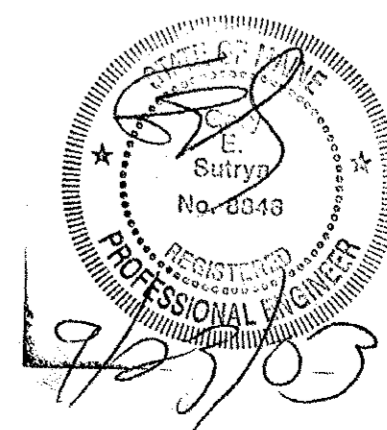
Rubb Job #03088

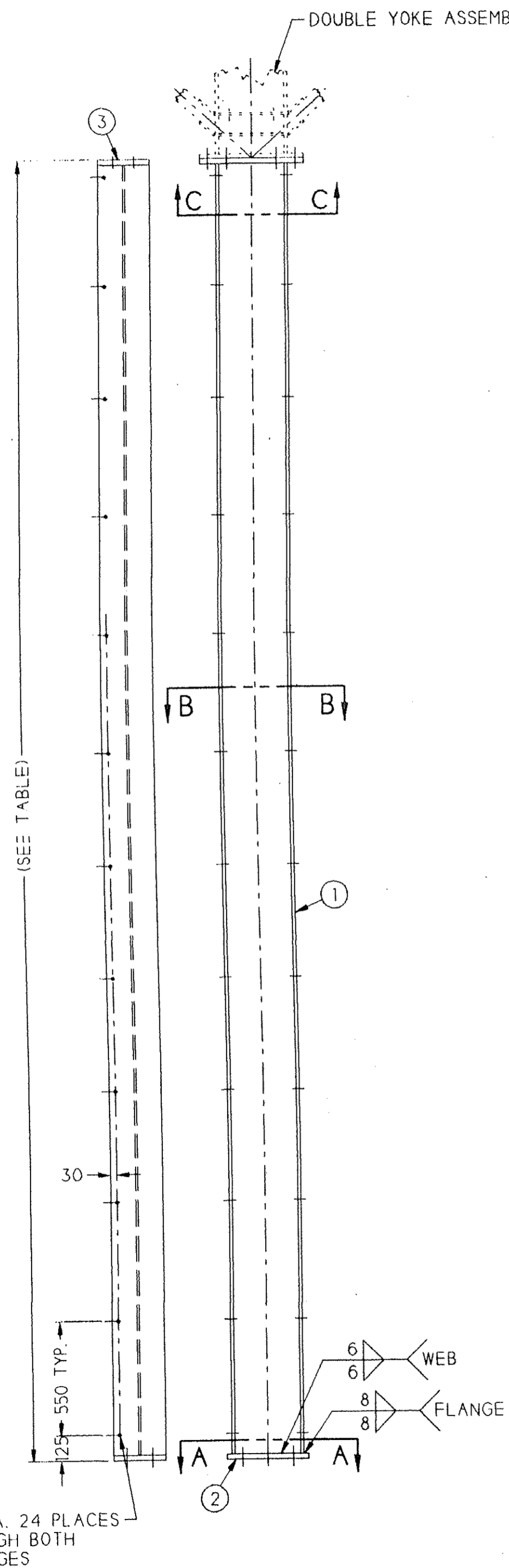
Design Loads
 90 mph WIND EXPOSURE 'C', ASCE 7-93
 25 psf GROUND SNOW,
 PHILADELPHIA BLDG. CODE

L+I APPROVED COPY

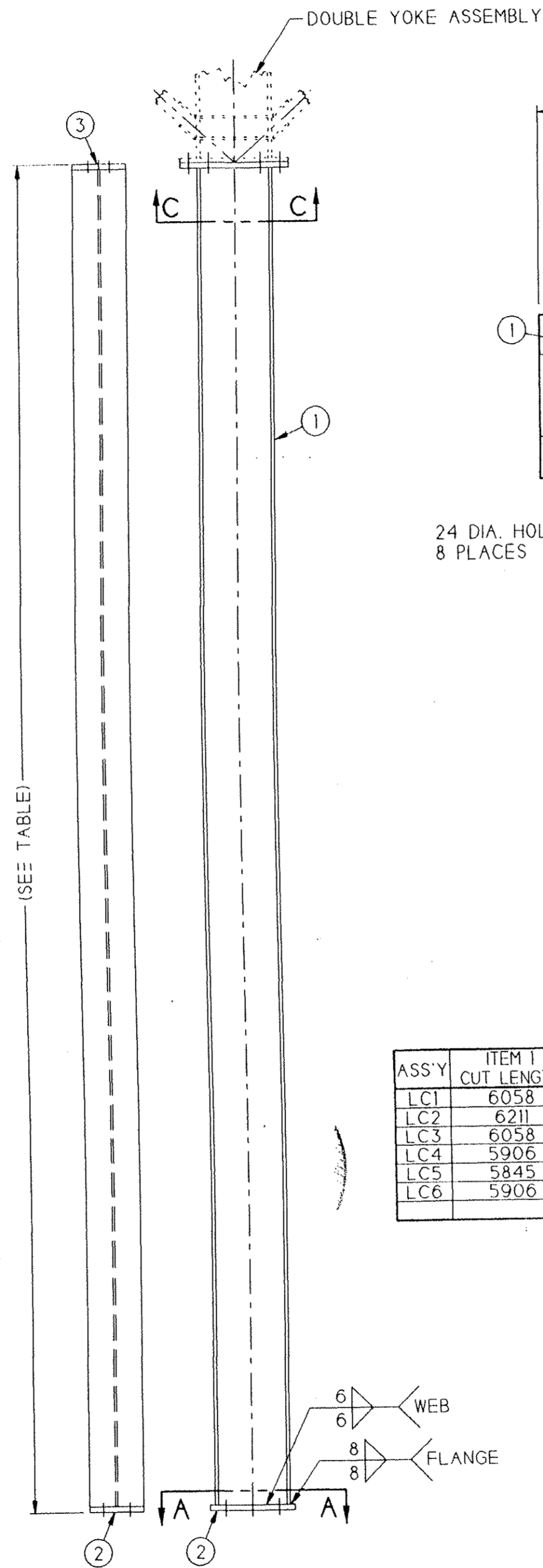


BUILDING SYSTEMS

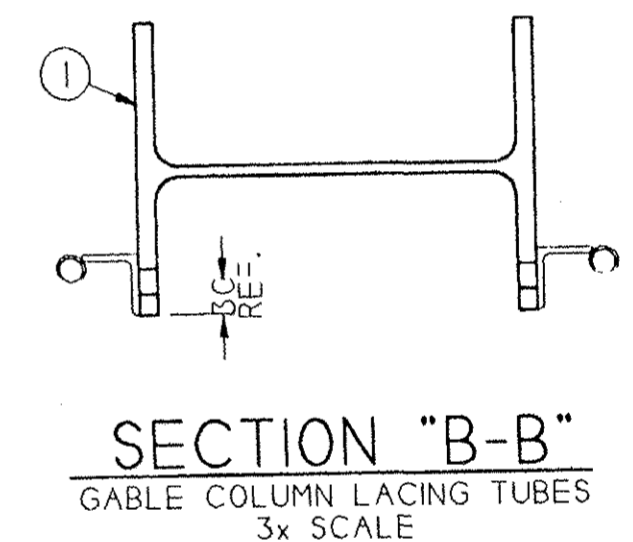
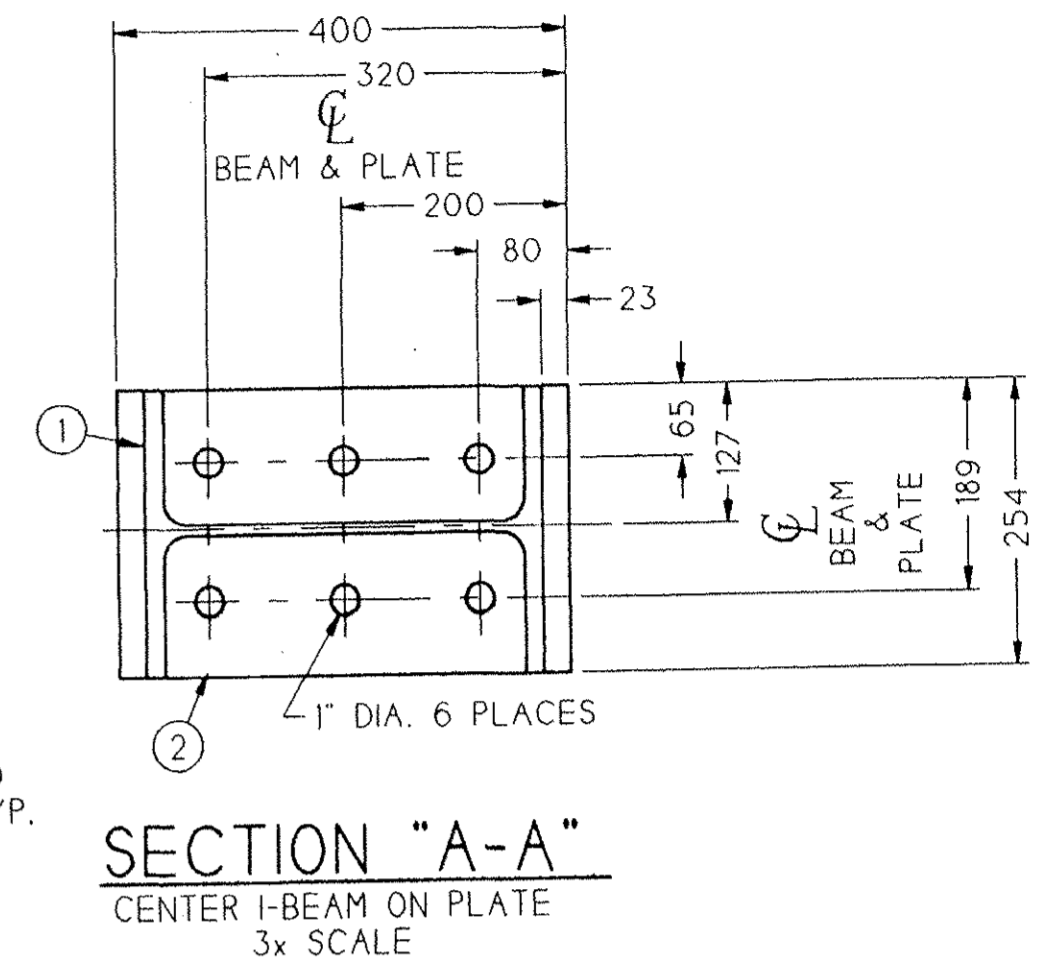
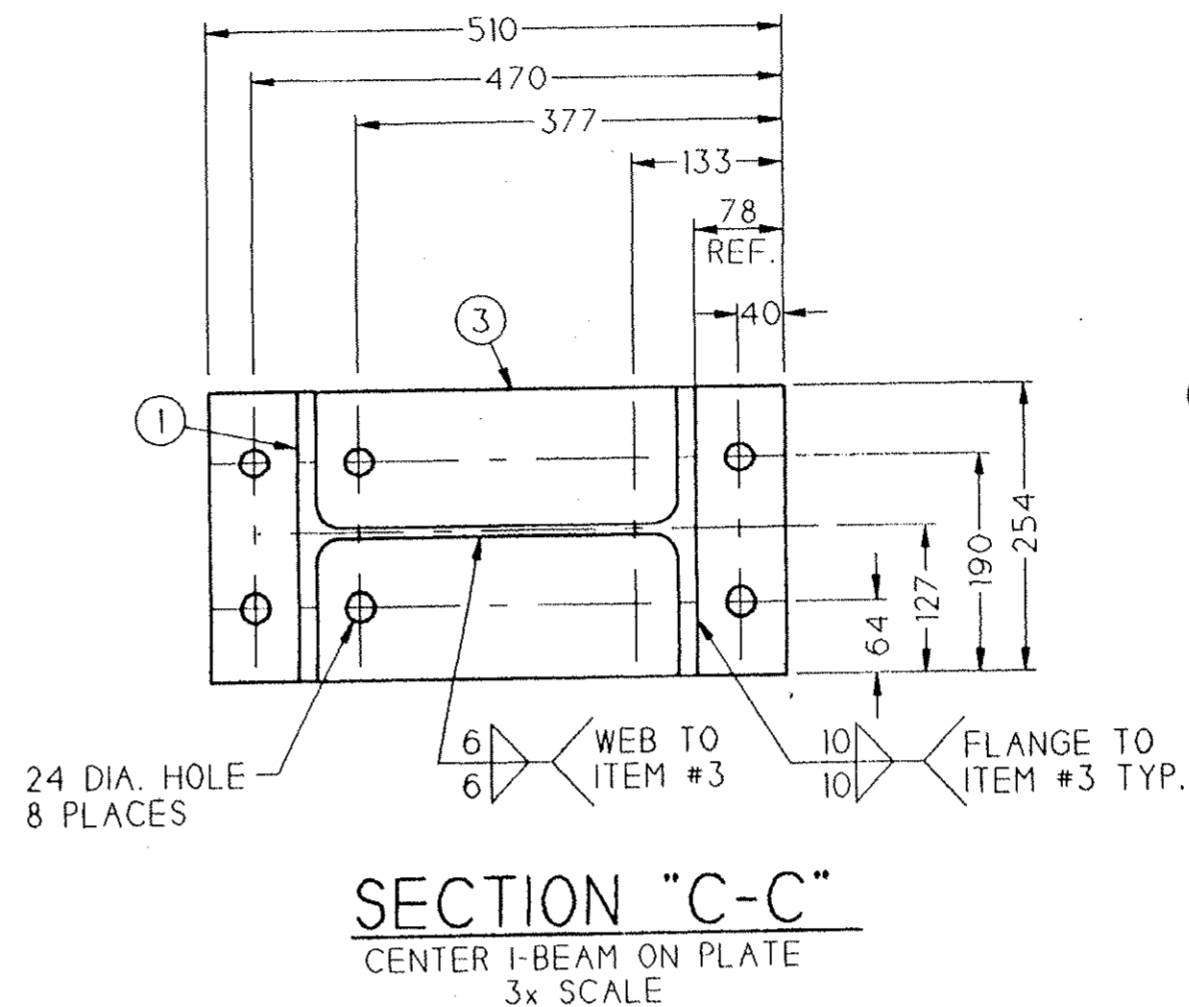




GABLE SPAN ASS'Y LC1 & LC6



NON GABLE SPAN ASS'Y LC2, LC3, LC4, & LC5

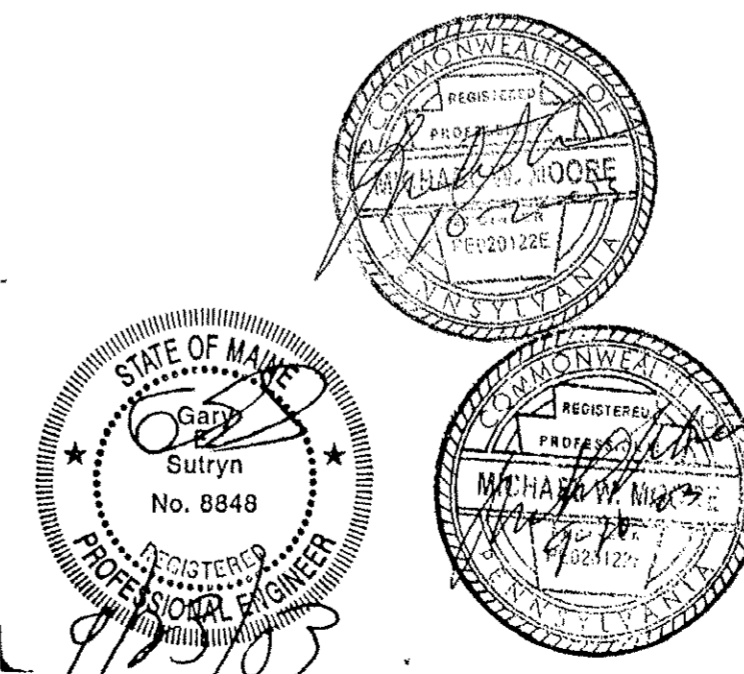


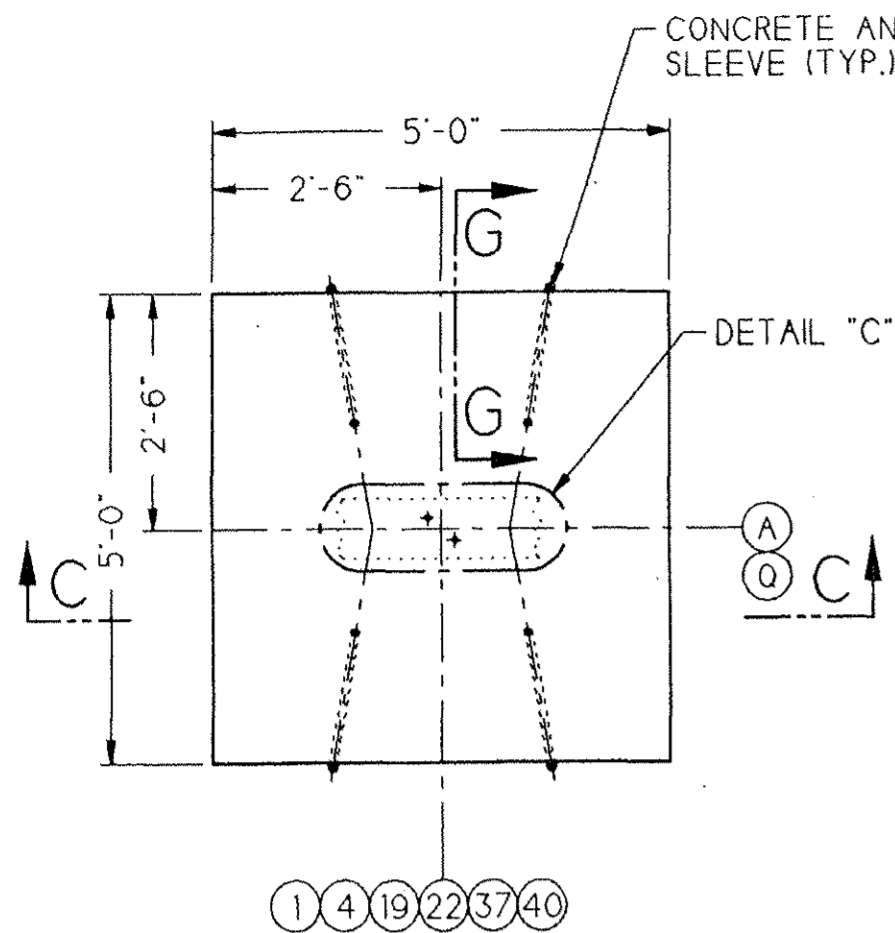
ASS'Y	ITEM 1 CUT LENGTH	OVERALL LENGTH	QTY
LC1	6058	6109	1
LC2	6211	6262	5
LC3	6058	6109	2
LC4	5906	5957	3
LC5	5845	5896	2
LC6	5906	5957	1

- NOTES:
- 1.) BREAK SHARP CORNERS FOR PVC.
 - 2.) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
 - 3.) BILL OF MATERIAL IS FOR ONE ASSEMBLY OF EACH.
 - 4.) SEE APPLICABLE DRAWING FOR LOCATION.

ITEM	QTY.	DESCRIPTION	SPEC.	F _y MIN.
1	2	W 14 x 61 x (SEE TABLE)	A572	50 ksi
2	2	FLAT 10" x 1" x 400	A36	36 ksi
3	2	FLAT 10" x 1" x 510	A36	36 ksi

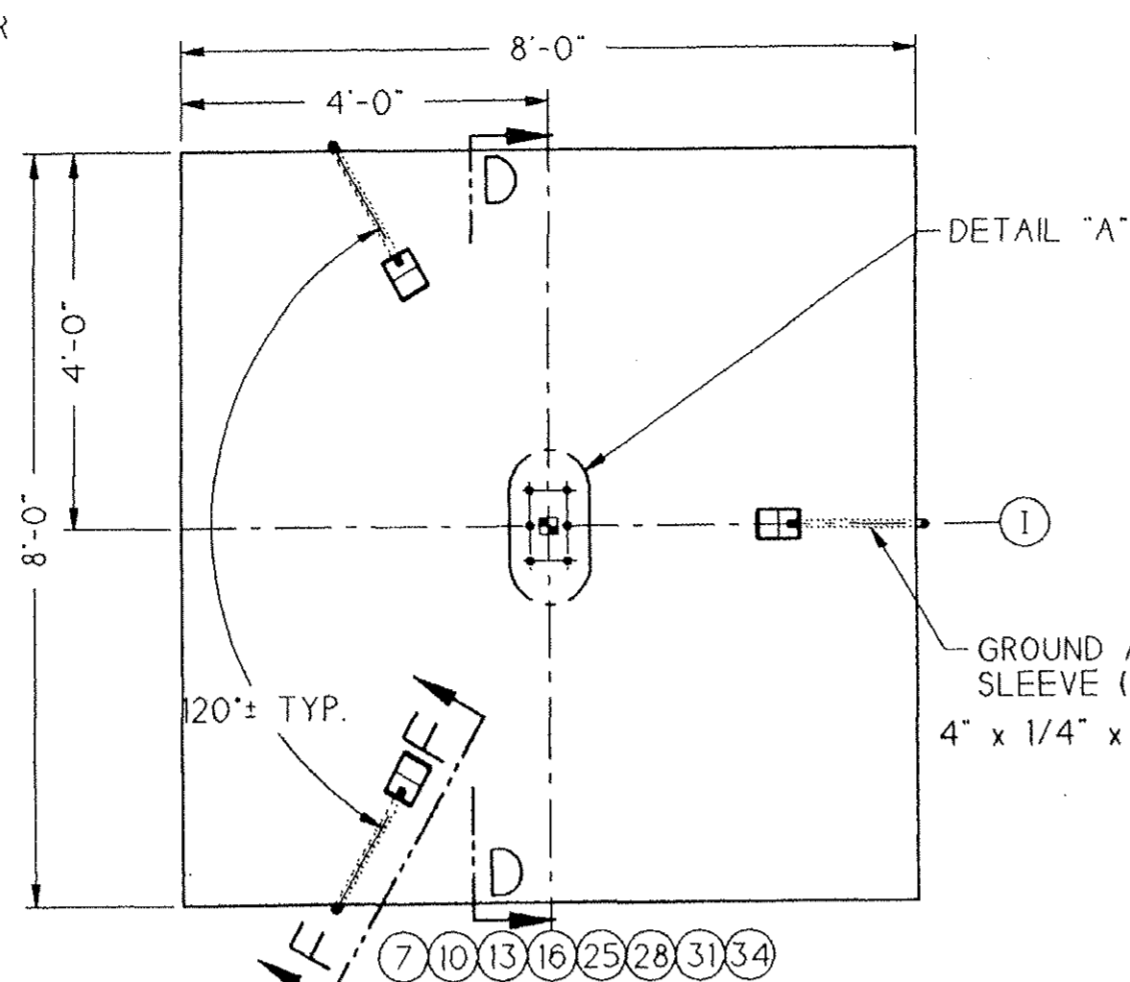
B	ADDED TABLE FOR VARIOUS LENGTHS REQUIRED.	MJG	9/17/03	
A	CHANGED ITEMS #1, #2 & #3	MRB		
REV.	DESCRIPTION	DRAWN	APP.	DATE
We Cover The World RUBB BUILDING SYSTEMS TITLE: 33.5m BVE BILINK / 7m LEG LOWER CENTER COLUMN				
DRAWN	AR 8-13-03	SCALE	1:20	This drawing is the property of Rubb, Inc. and may not be reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.
APP.		JOB #	03088	
DATE		JOB NAME	JMG	
RUBB, INC. SANFORD MAINE 04073 TEL: 207-324-2877 FAX 207-324-2347				DRAWING NO. 37905





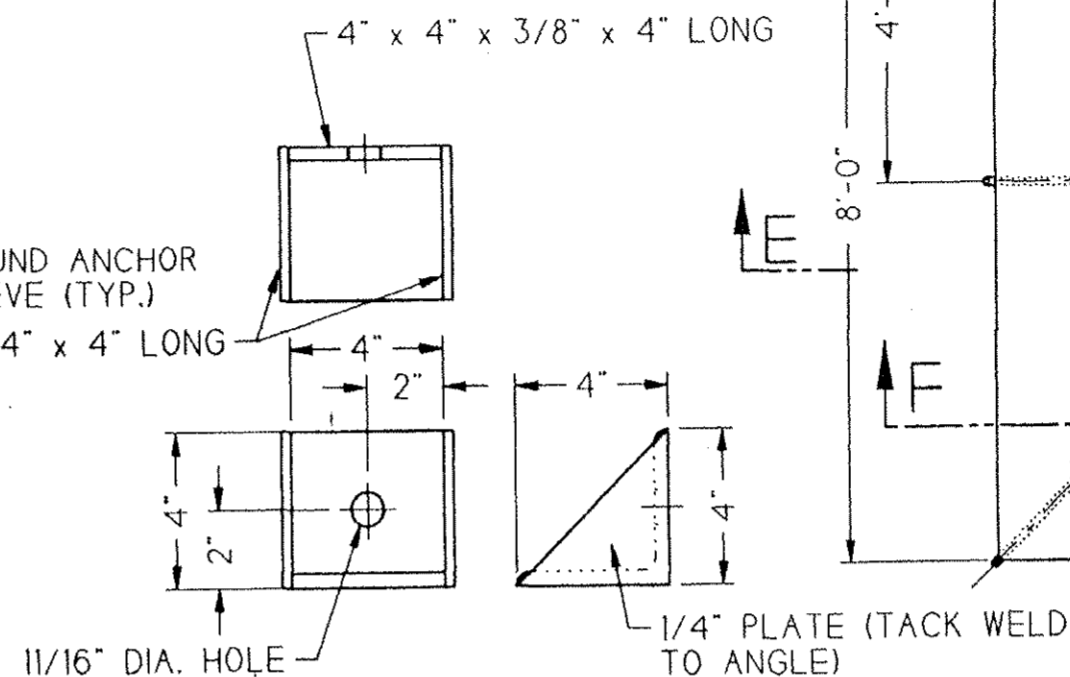
DETAIL "P1"

10x SCALE
CORNER CONFIGURATION
DIFFERS. SEE DWG. #37894



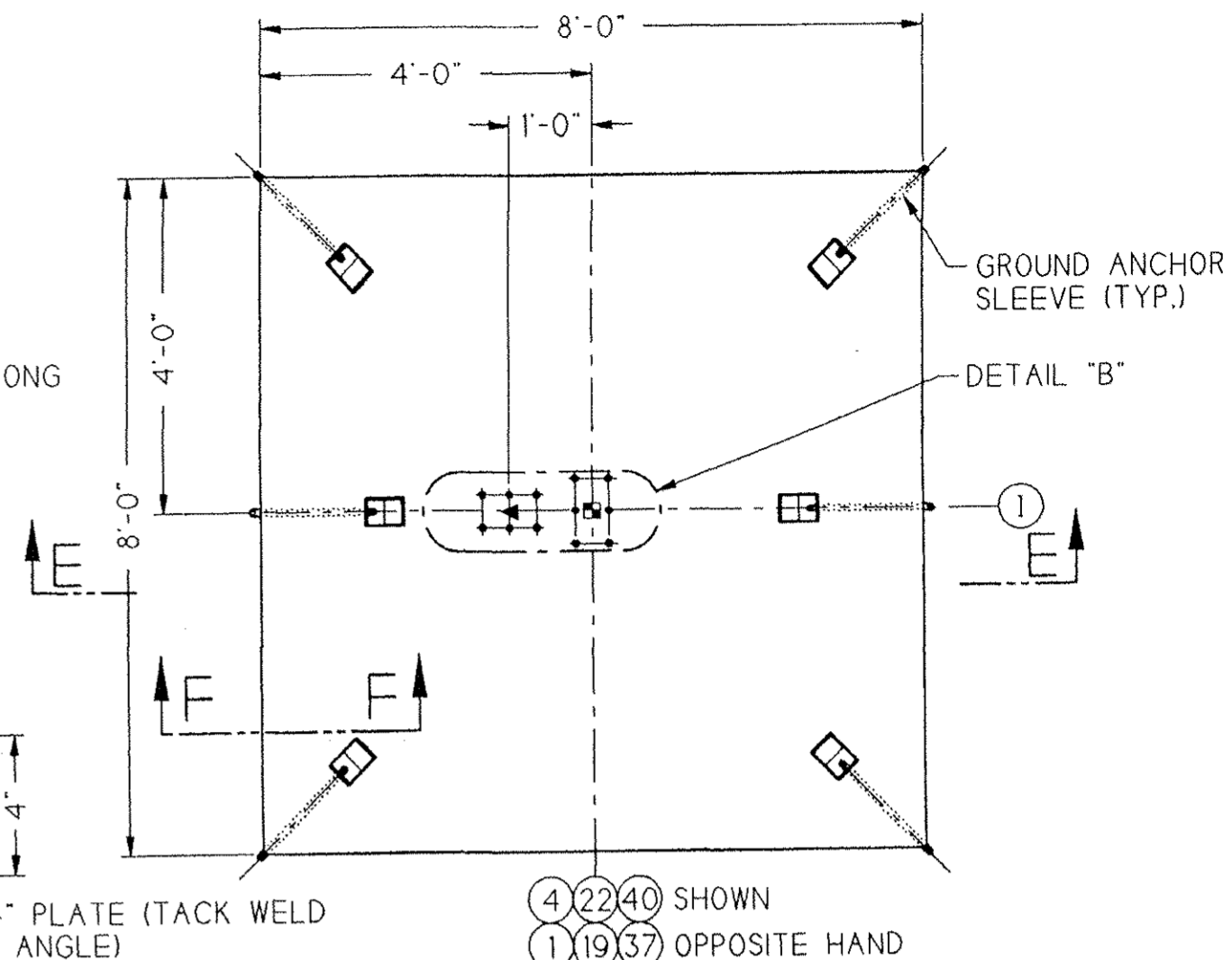
DETAIL "P2"

10x SCALE



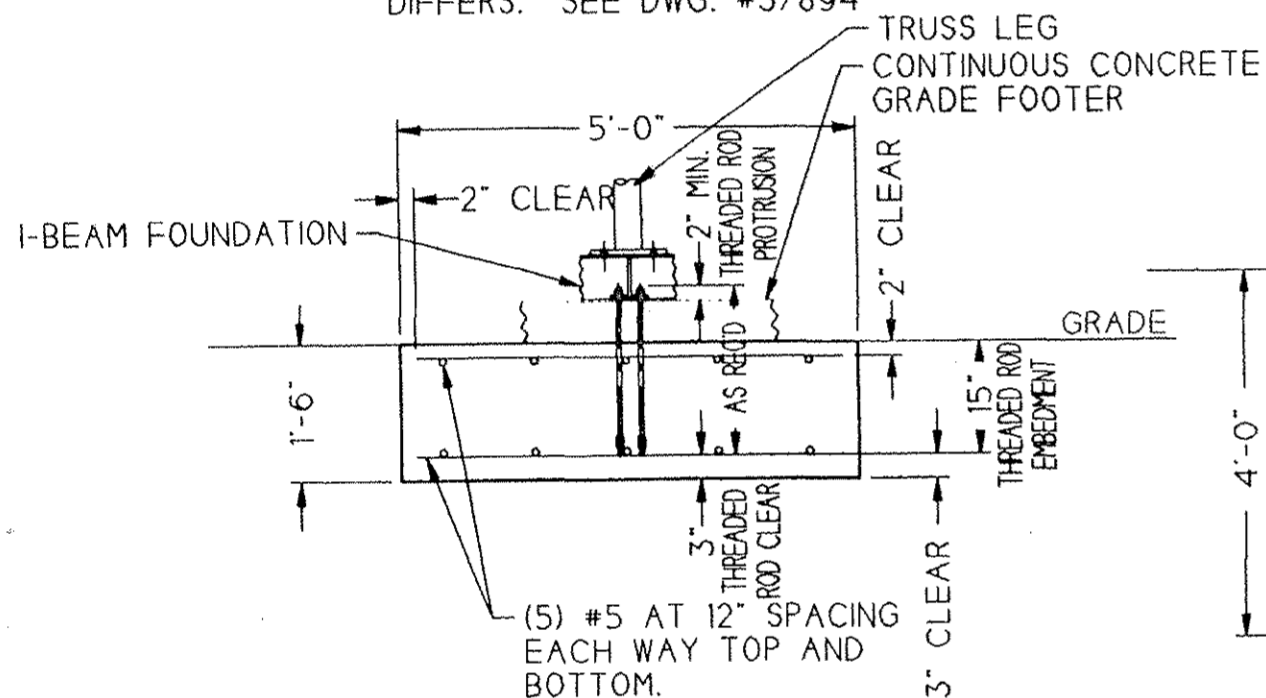
GROUND ANCHOR SEATING ANGLE

50x SCALE



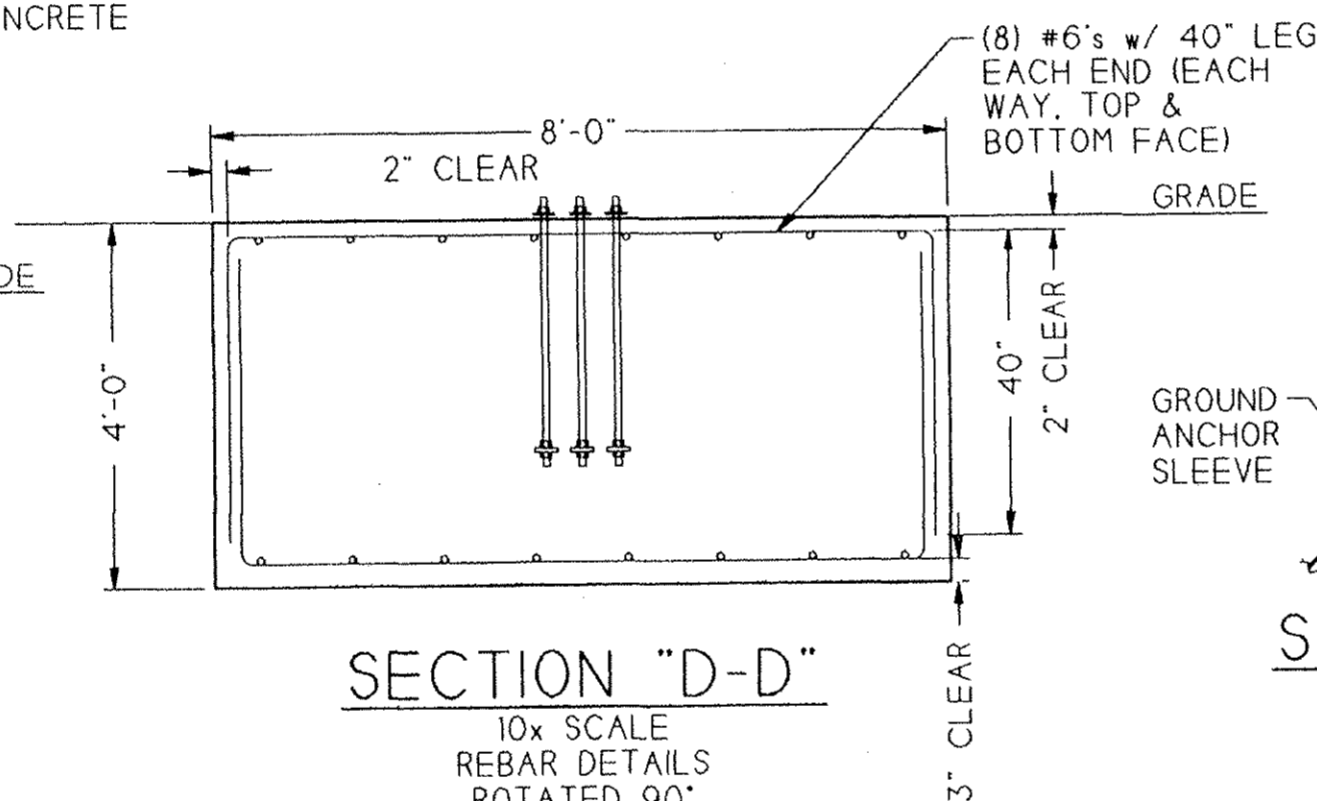
DETAIL "P3"

10x SCALE
LEFT HAND SHOWN
RIGHT HAND OPPOSITE



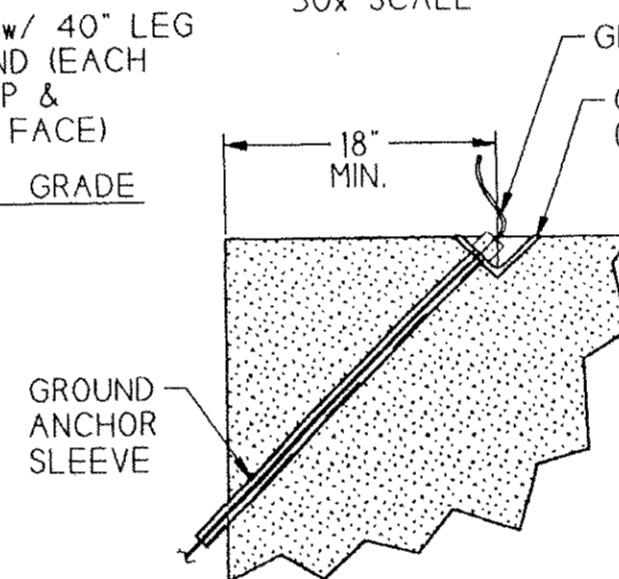
SECTION "C-C"

10x SCALE
REBAR DETAILS



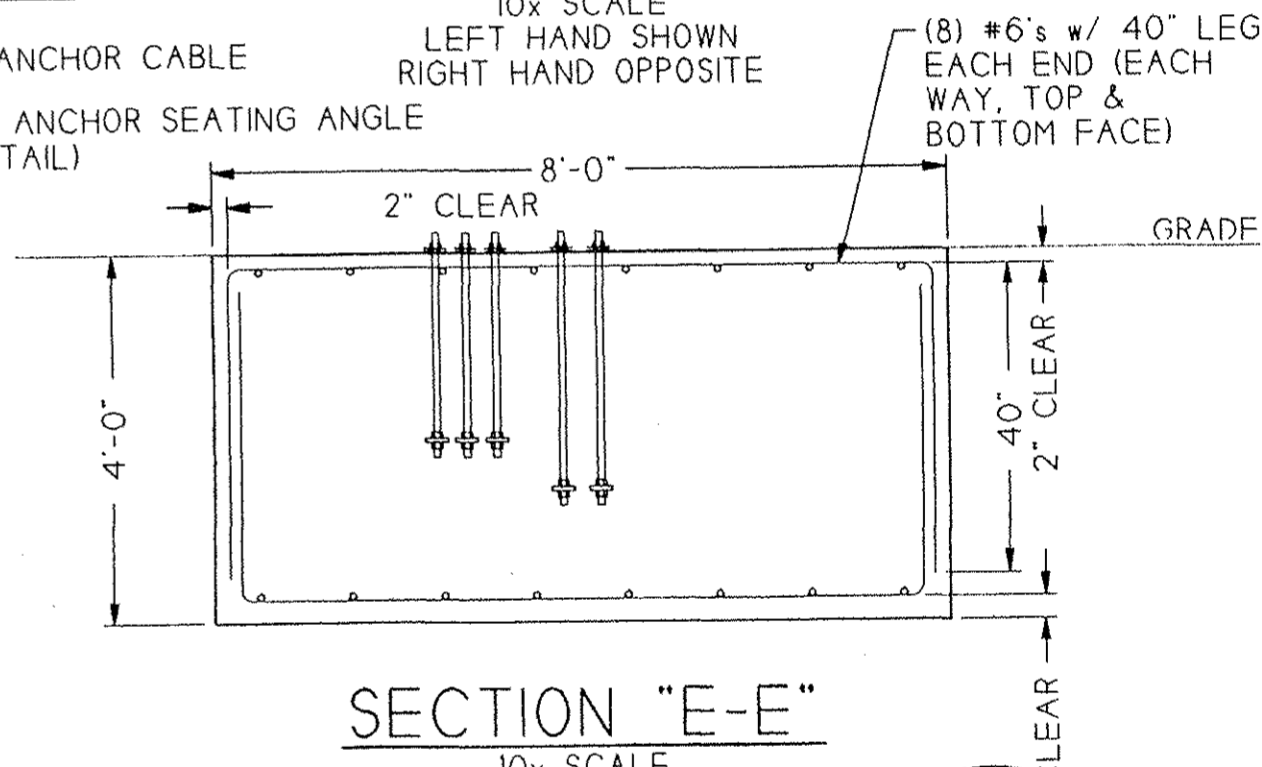
SECTION "D-D"

10x SCALE
REBAR DETAILS
ROTATED 90°



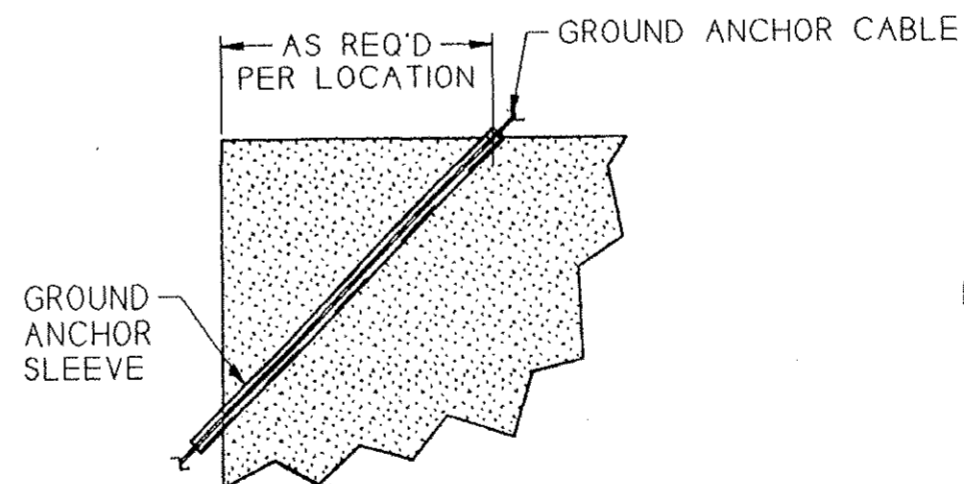
SECTION "F-F"

20x SCALE



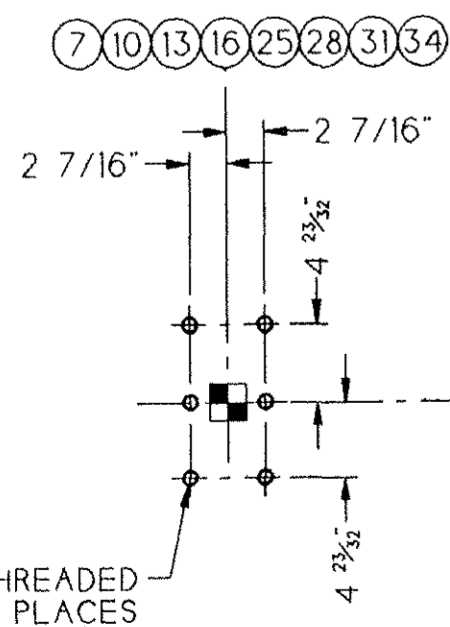
SECTION "E-E"

10x SCALE
REBAR DETAILS



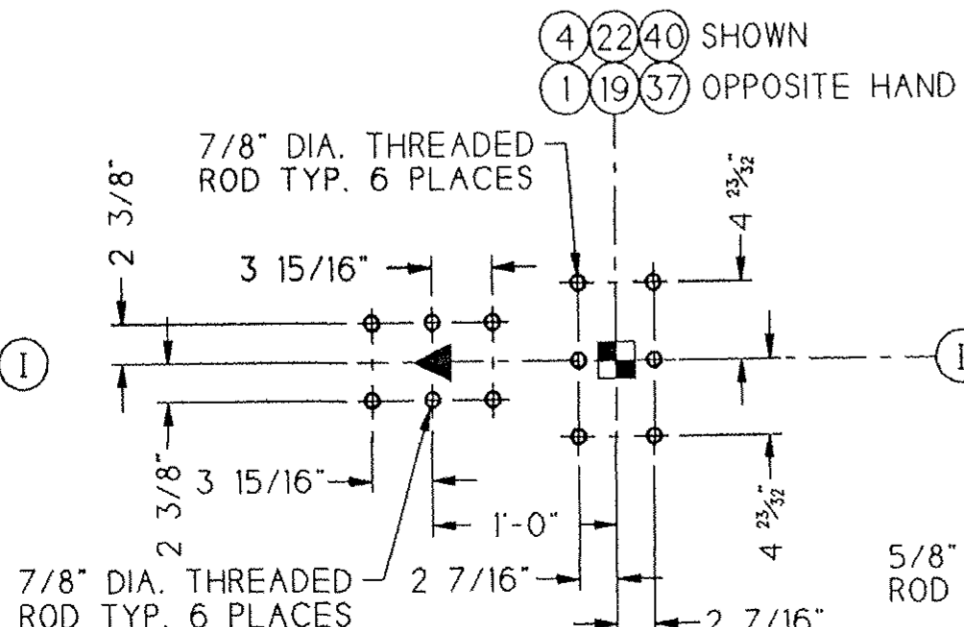
SECTION "G-G"

20x SCALE



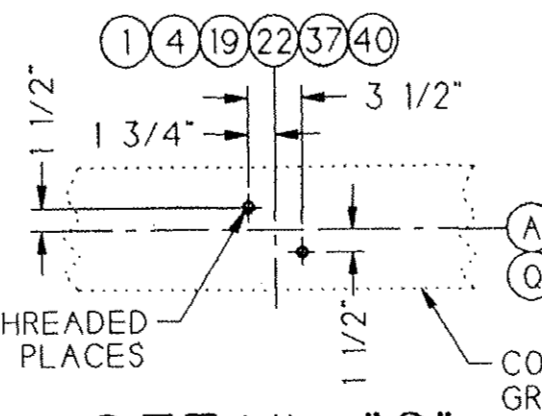
DETAIL "A"

20x SCALE



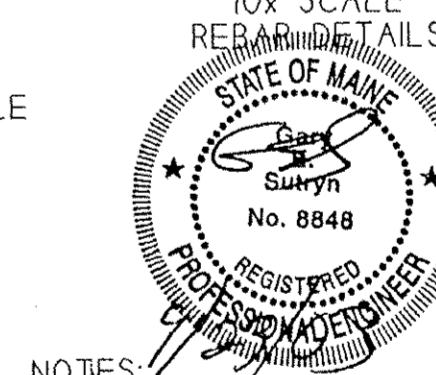
DETAIL "B"

20x SCALE



DETAIL "C"

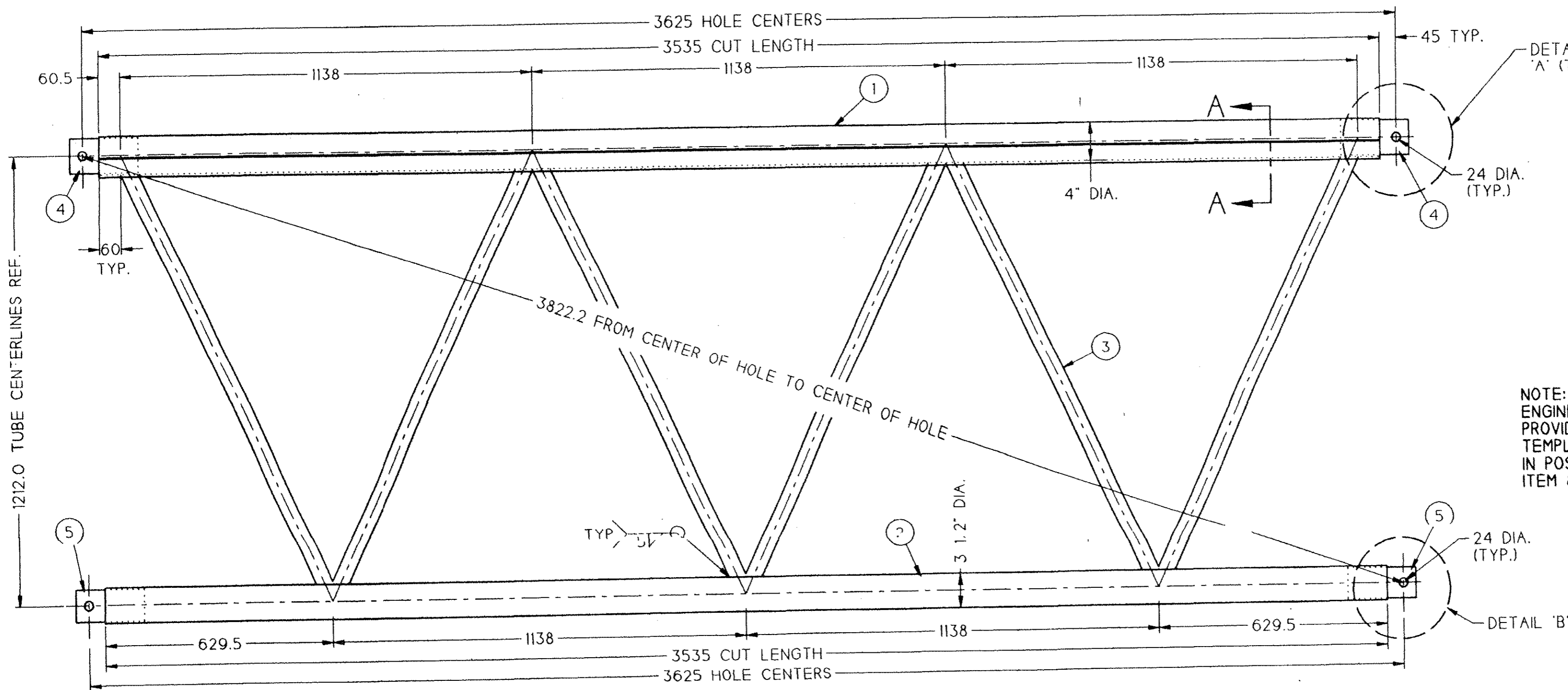
20x SCALE



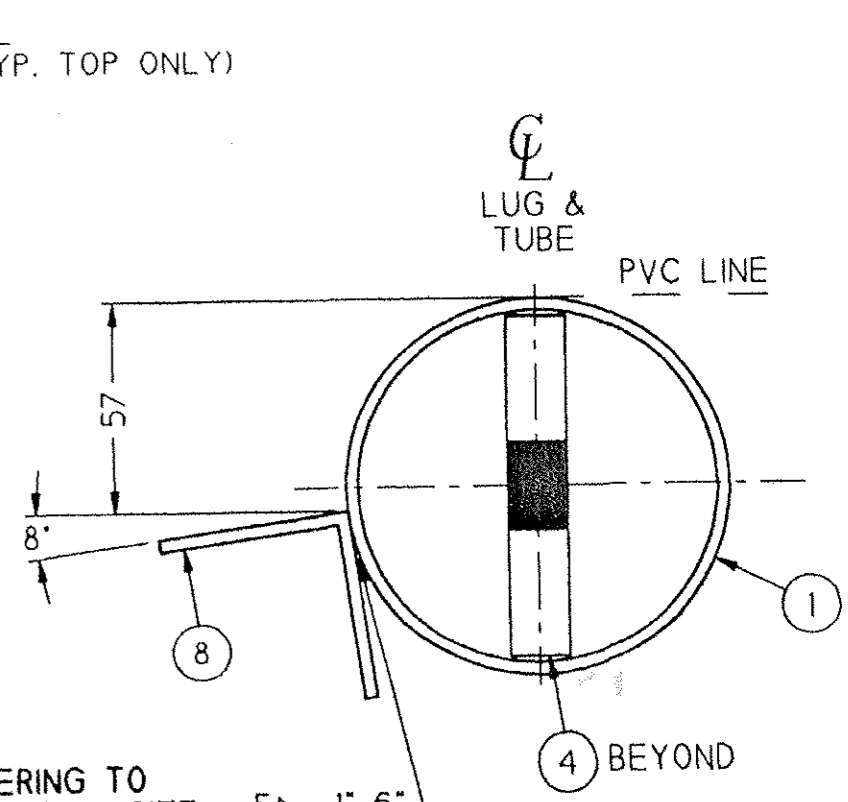
NOTES:
1.) SEE DRAWING #38006 FOR CONCRETE FOUNDATION LAYOUT.

B	REVISED SECTION 'D-D' & SECTION REFERENCES ON PAD P2.	MJG	9/16/03	
A	REVISED P2 PAD & ANCHOR PATTERN CONFIGURATION.	MJG		
REV.	DESCRIPTION	DRAWN	APP.	DATE
We Cover The World RUBB BUILDING SYSTEMS		TITLE 33.5m BVE BILINK / 7m LEG CONCRETE FOUNDATION DETAILS		
DRAWN	MJG 9-16-03	SCALE	1 : 250	
APP.		JOB #	03088	
DATE		JOB NAME	JMG	
RUBB, INC. SANFORD MAINE 04073 TEL: 207-324-2877 FAX 207-324-2347				DRAWING NO. 38018



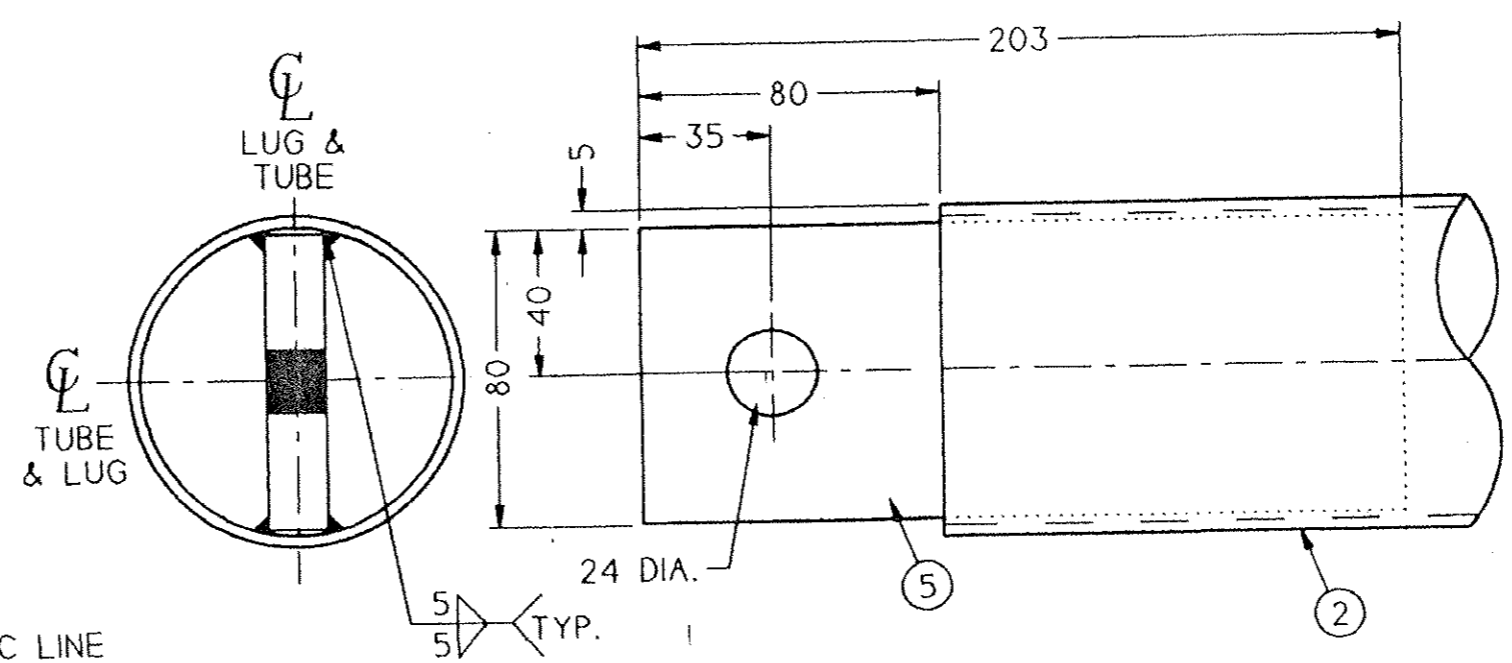


A27 - VALLEY NON-PEAK AXIAL FRAME

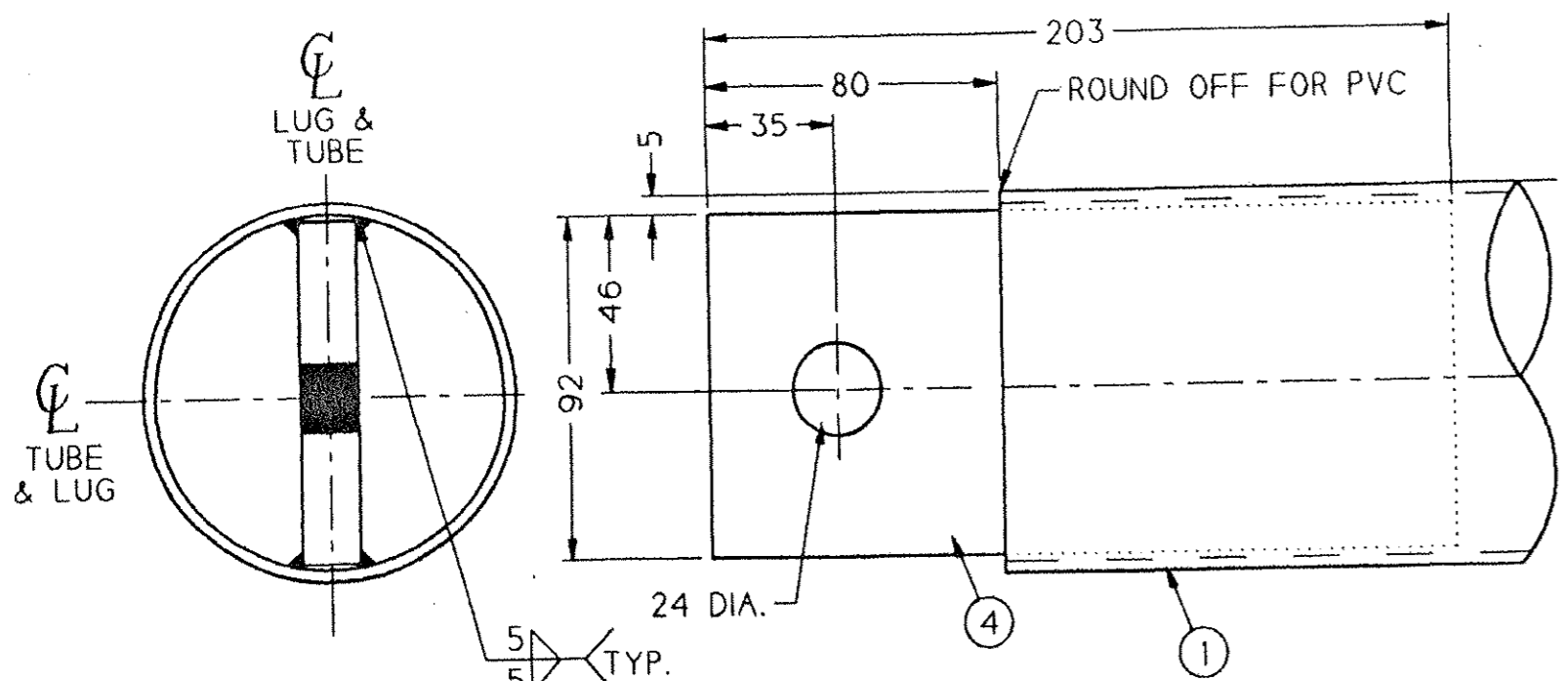


NOTE:
ENGINEERING TO
PROVIDE FULL SIZE
TEMPLATE TO AID
IN POSITIONING OF
ITEM 8

SECTION 'A-A'
5x SCALL

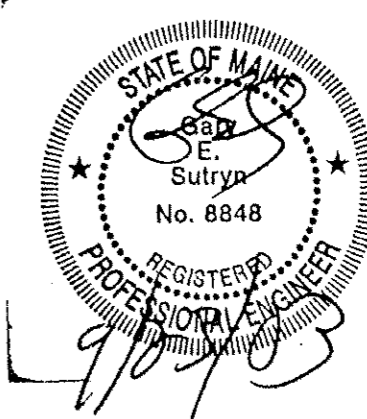


DETAIL "B"
WELDING DETAILS
5x SCALE



DETAIL "A"
WELDING DETAILS
ITEM 8 NOT SHOWN
5x SCALE

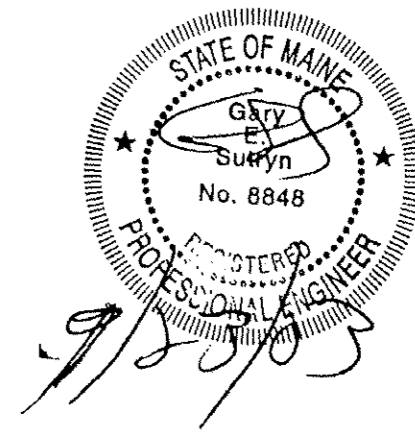
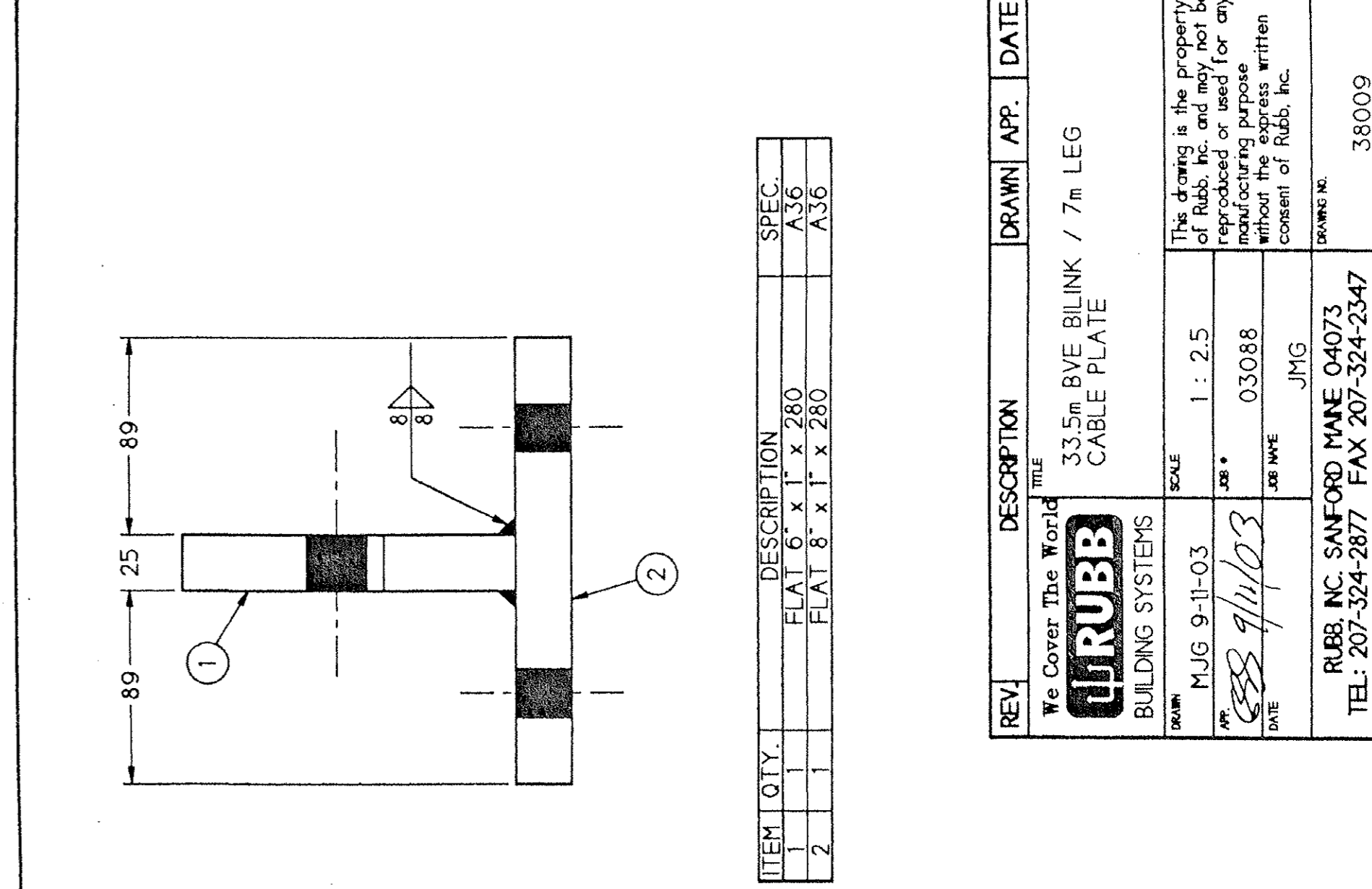
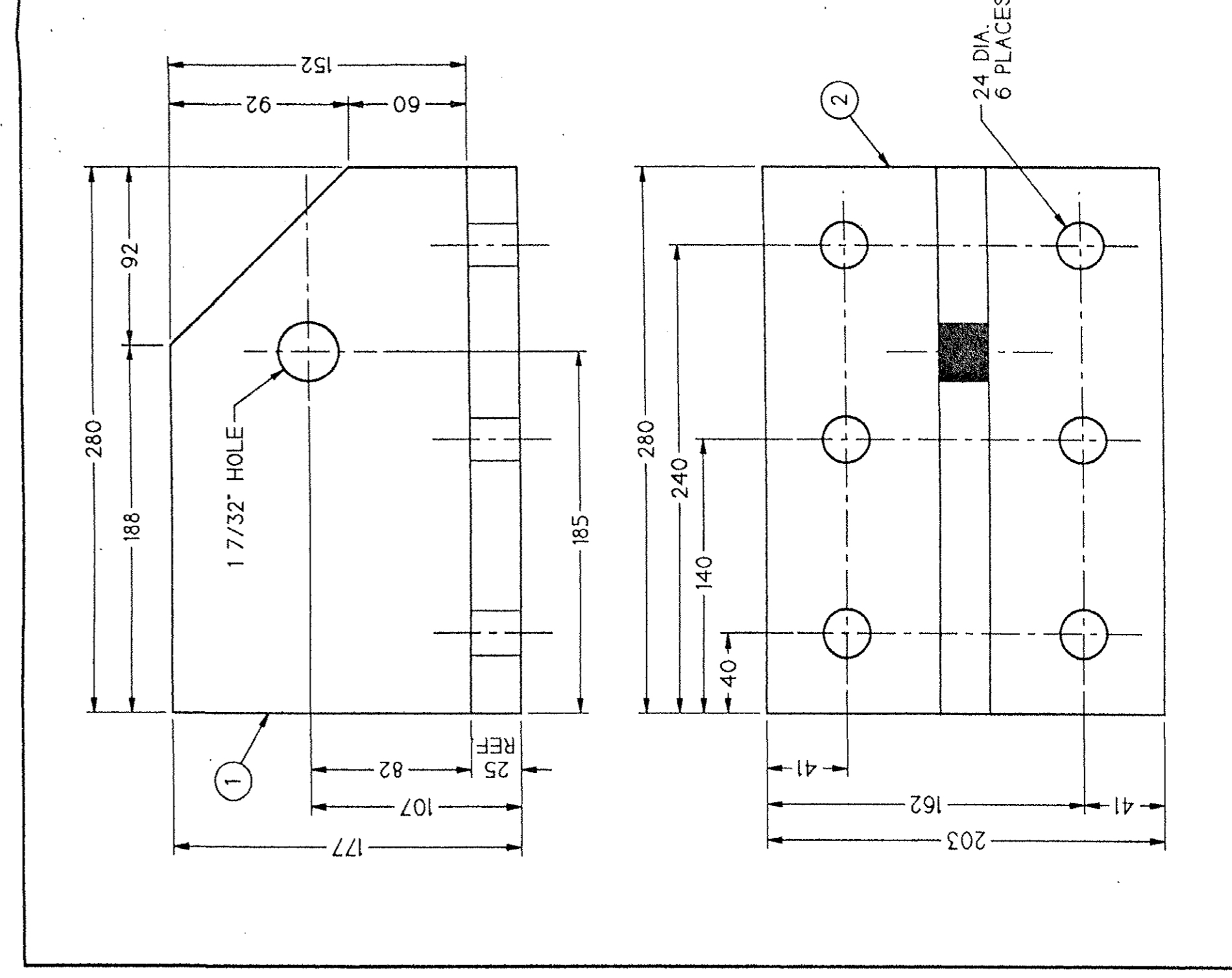
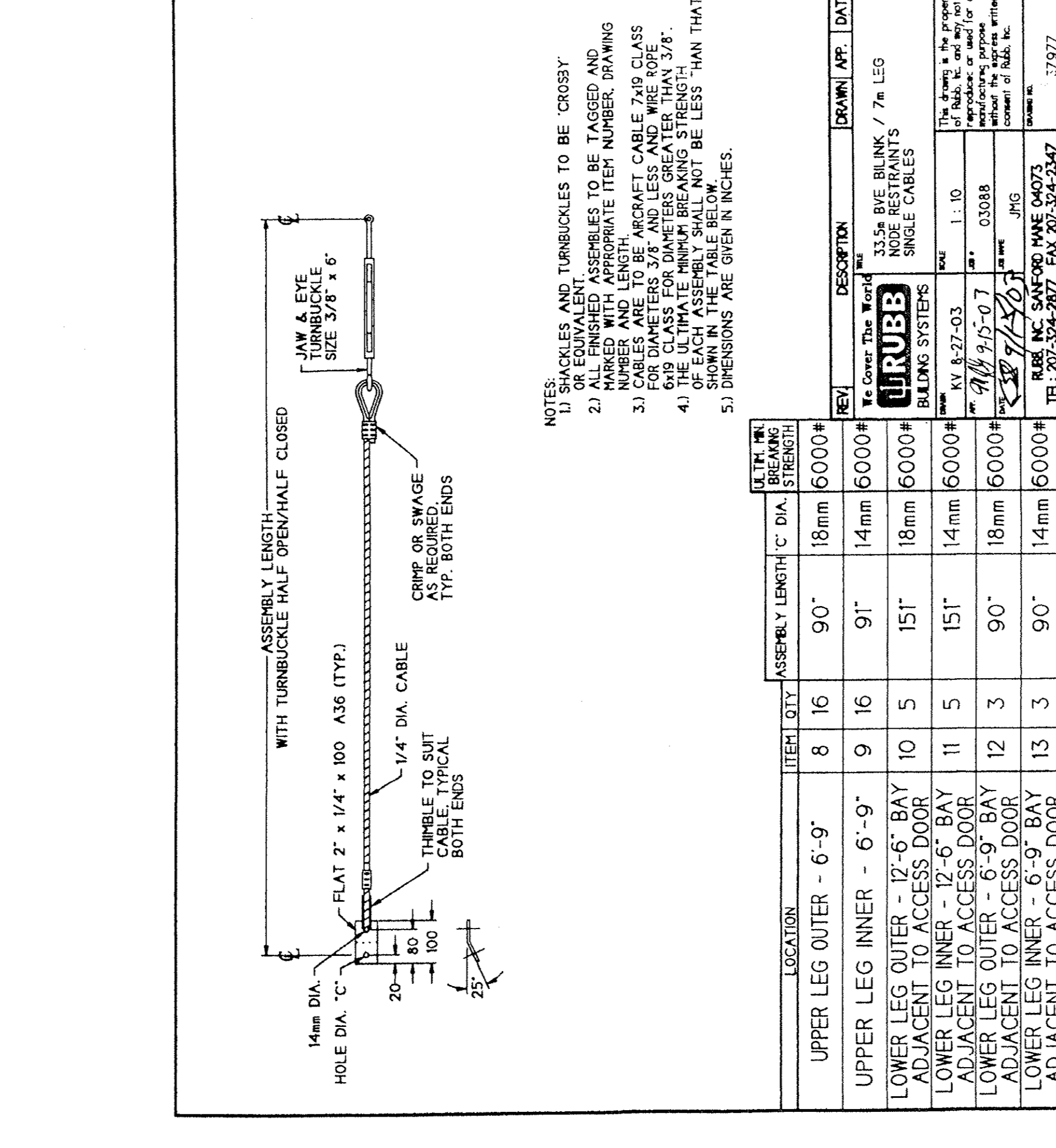
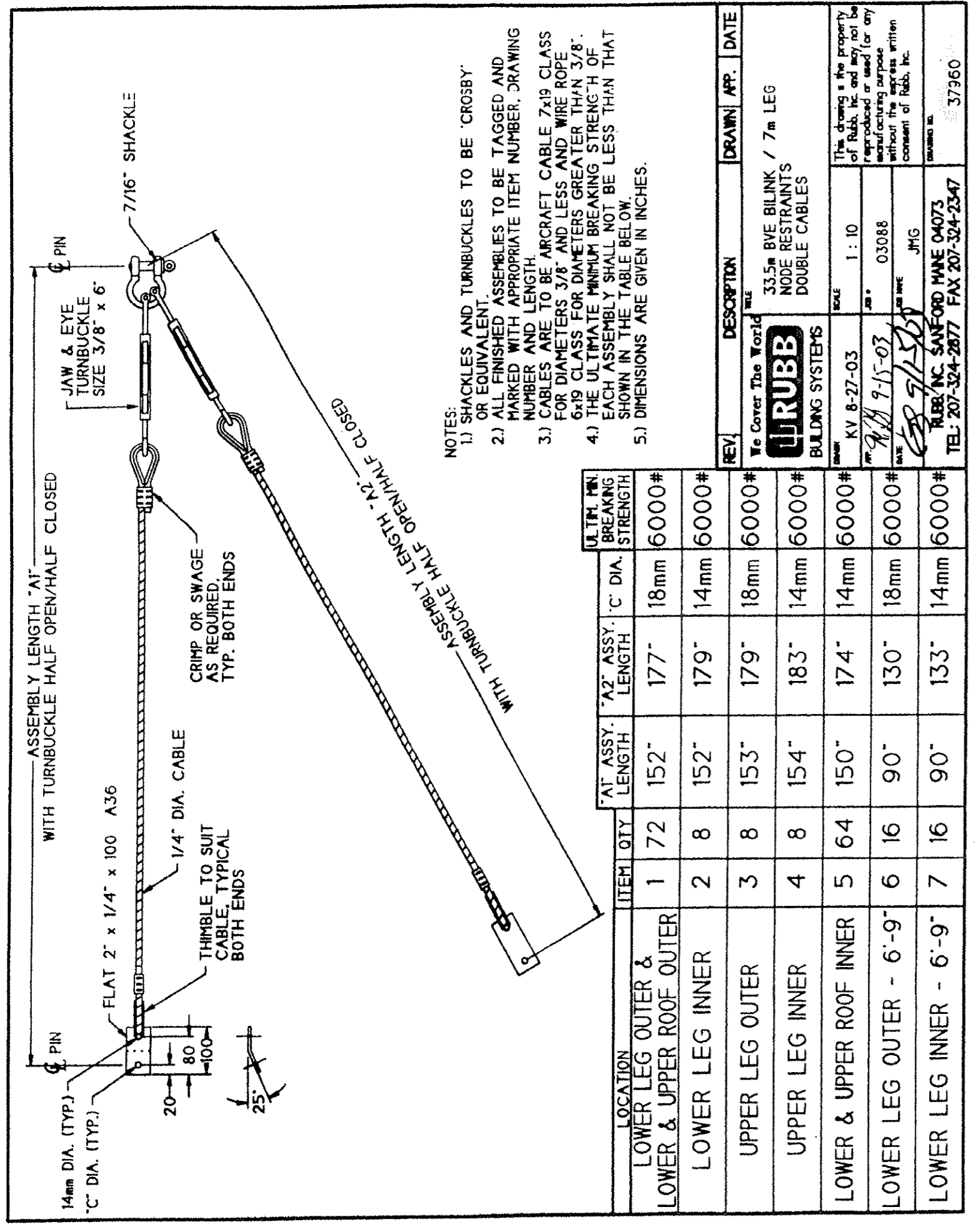
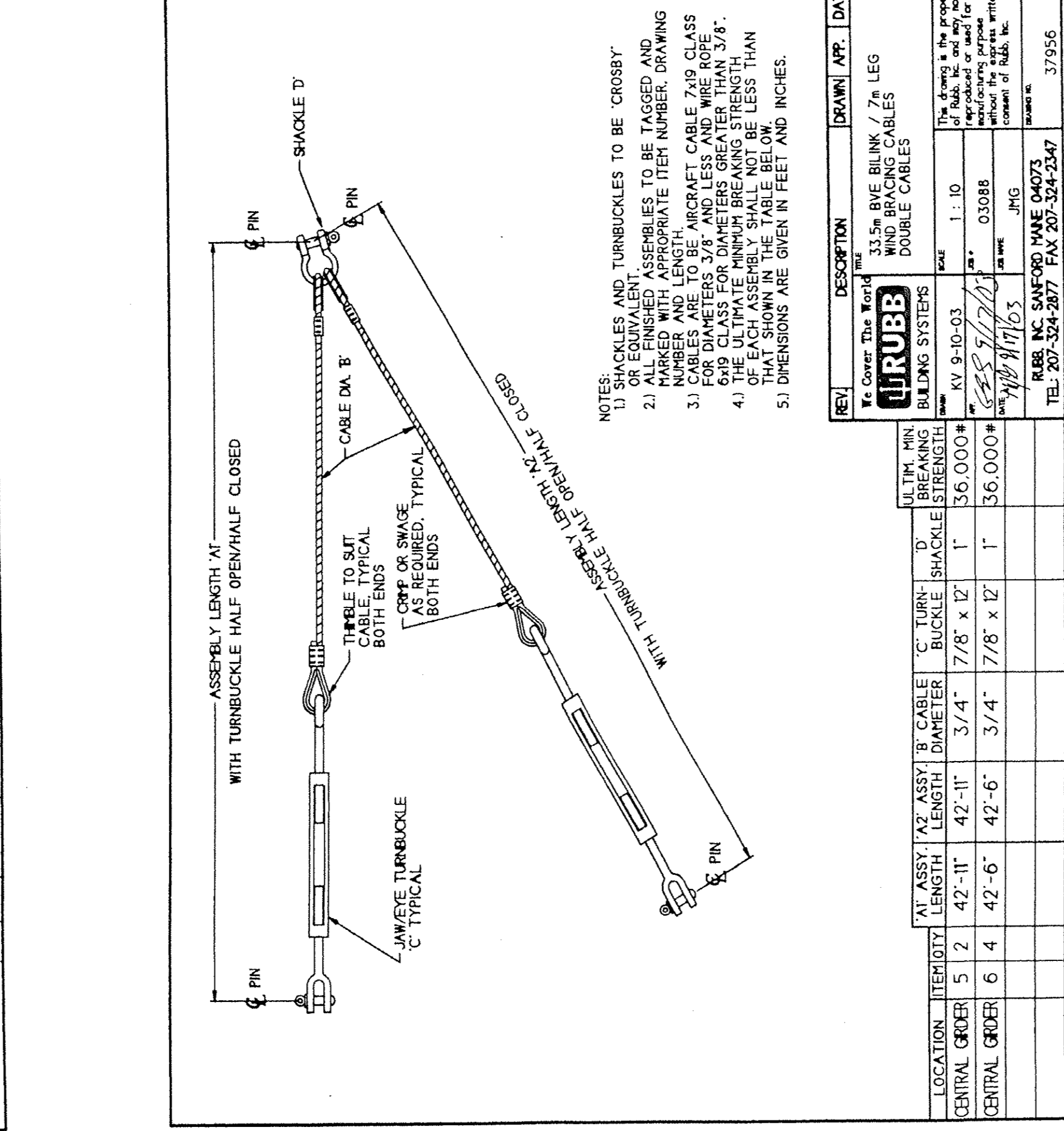
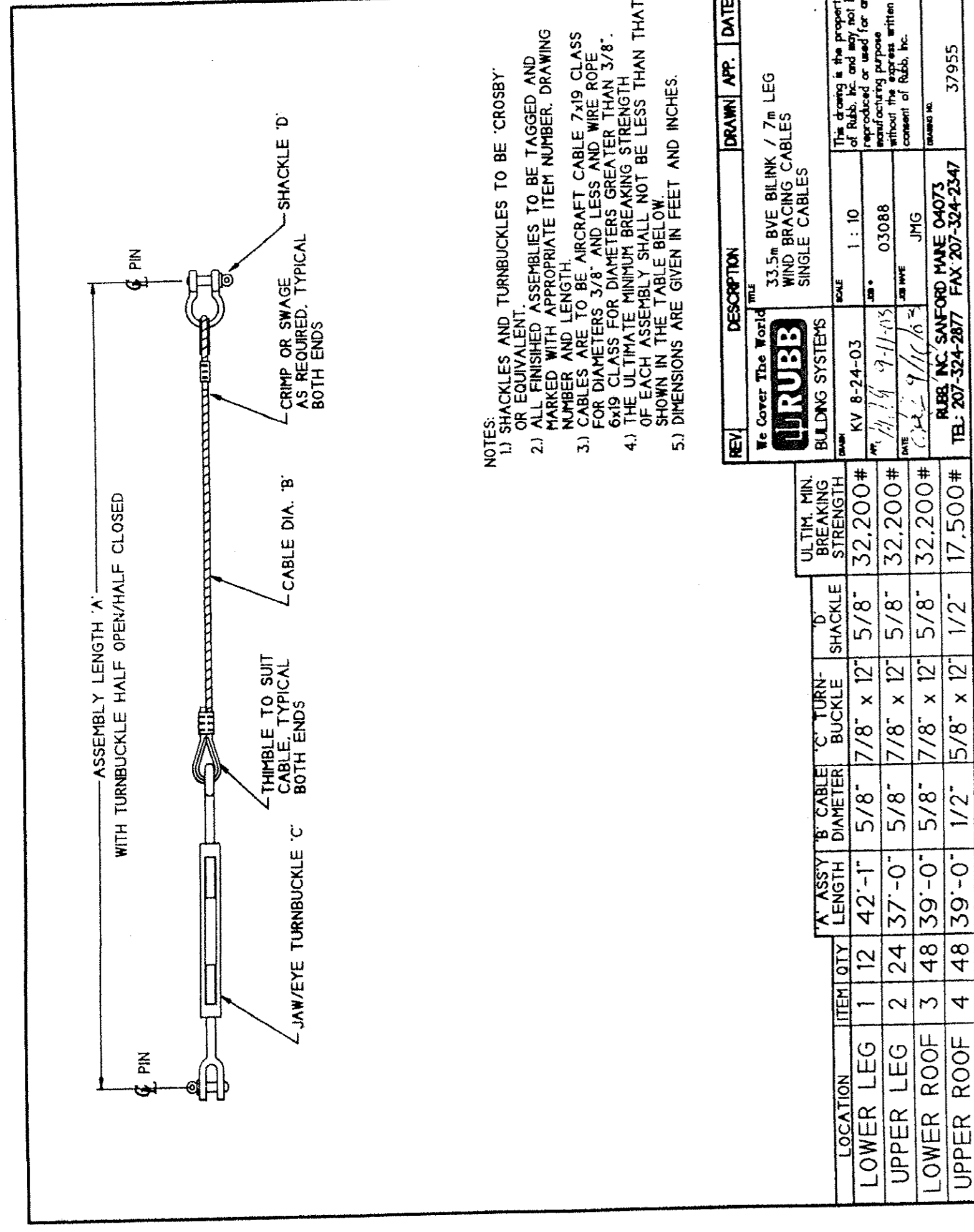
- NOTES:
- 1.) BREAK SHARP CORNERS FOR PVC.
 - 2.) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
 - 3.) BILL OF MATERIAL IS FOR ONE ASSEMBLY OF EACH.
 - 4.) SEE PURLIN PROFILES FOR LOCATION.
 - 5.) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.
 - 6.) VENT ALL TUBES AS REQUIRED FOR GALVANIZING.
 - 7.) ALL A500 MATERIAL TO BE Fy - 50 ksi MINIMUM.



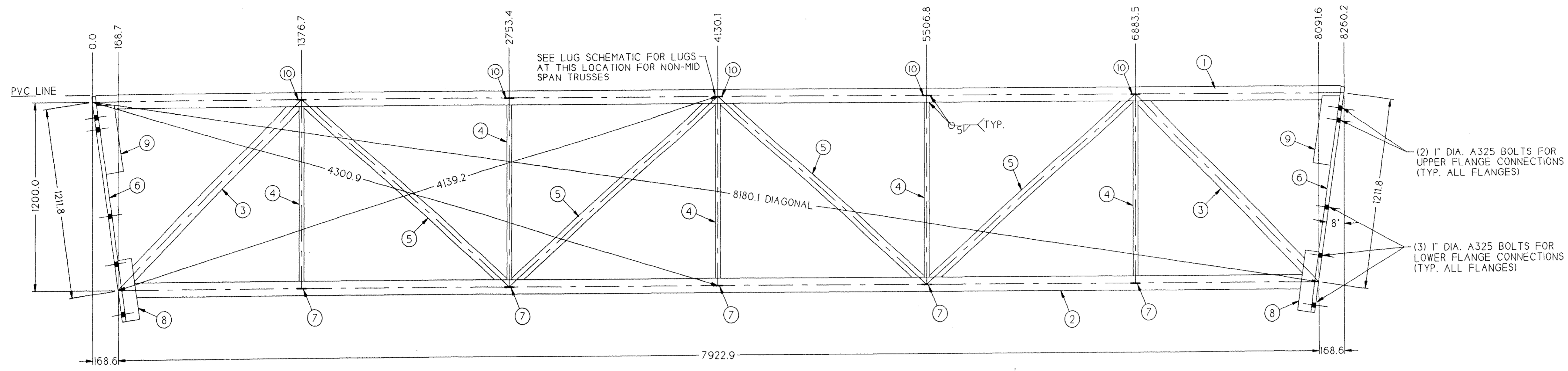
ITEM	QTY.	DESCRIPTION	SPEC.
1	1	TUBE 4" DIA. x 0.125" x 3535	A500
2	1	TUBE 3 1/2" DIA. x 0.120" x 3535	A500
3	6	TUBE 1 3/4" DIA. x 0.095	A500
4	2	FLAT 8" x 5/8" x 92	A36
5	2	FLAT 8" x 5/8" x 80	A36
6	-	-	-
7	-	-	-
8	1	ANGLE 2" x 2" x 1/8" x 3535	A36
9	-	-	-
10	-	-	-

REV.	DESCRIPTION	DRAWN	APP.	DATE
	33.5m BVE BILINK / 7m LEG MISCELLANEOUS AXIAL STEEL 12'-6" BAYS			
	SCALE 1 : 10			
	JOB # 03088			
	JOB NAME JMG			
RUBB, INC. SANFORD MAINE 04073 TEL: 207-324-2877 FAX 207-324-2347				DRAWING NO. 38026

This drawing is the property of Rubb, Inc. and may not be reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.

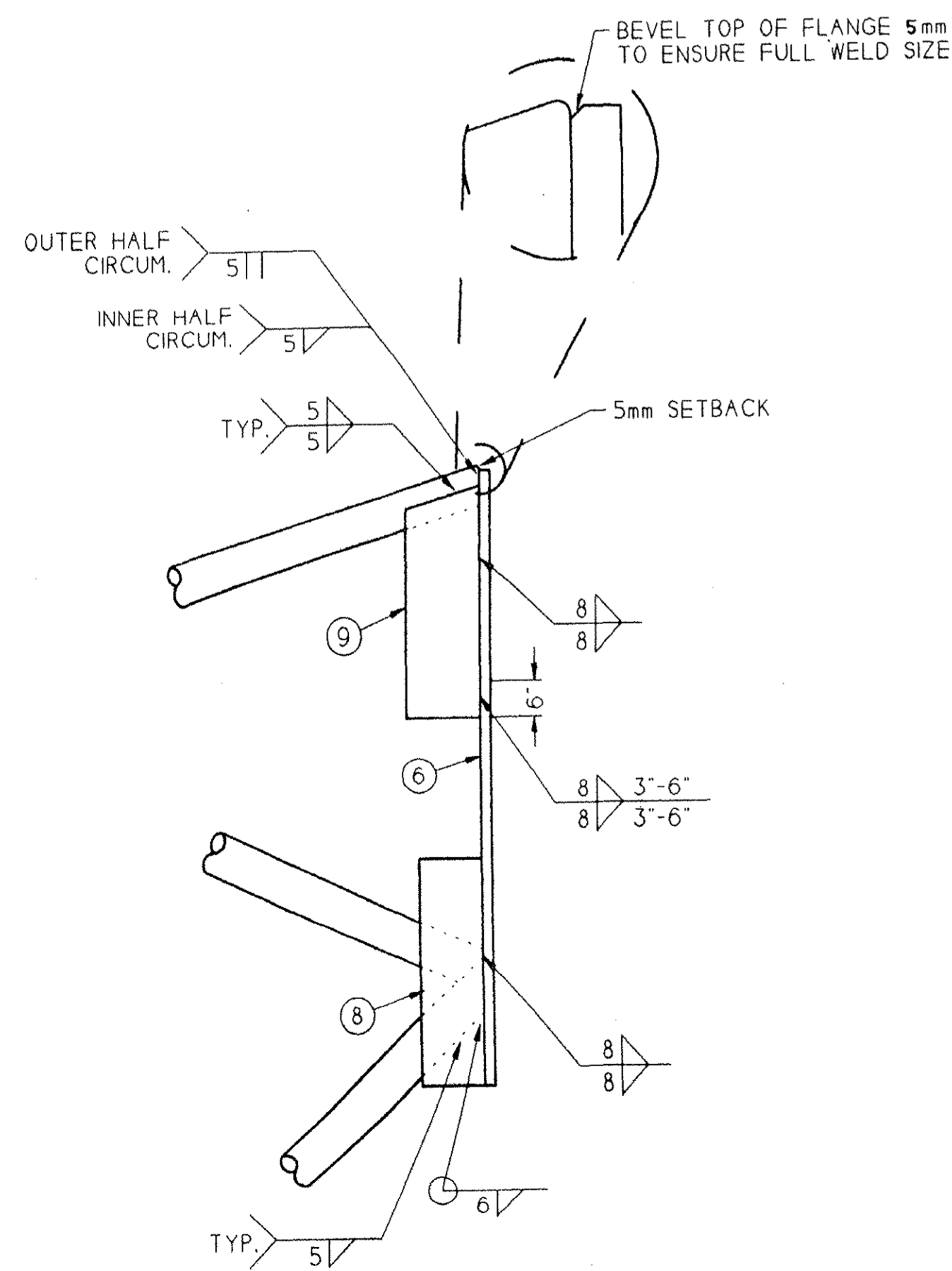


Handwritten signature and date: 9/15/03

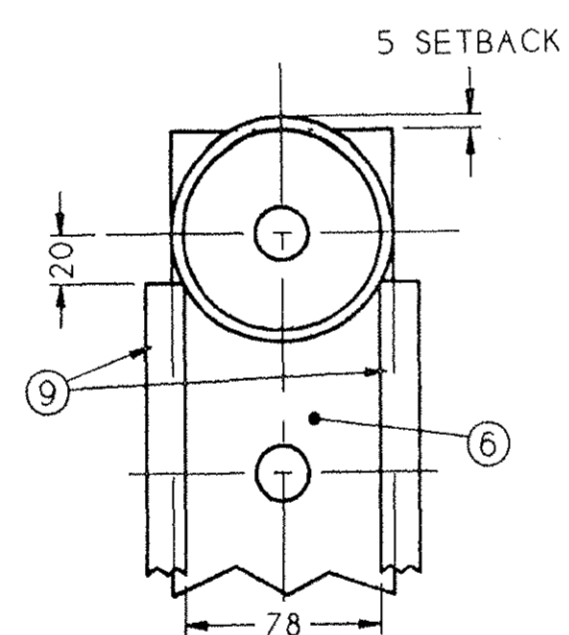


LOWER ROOF TRUSS
MID SPAN TRUSS SHOWN

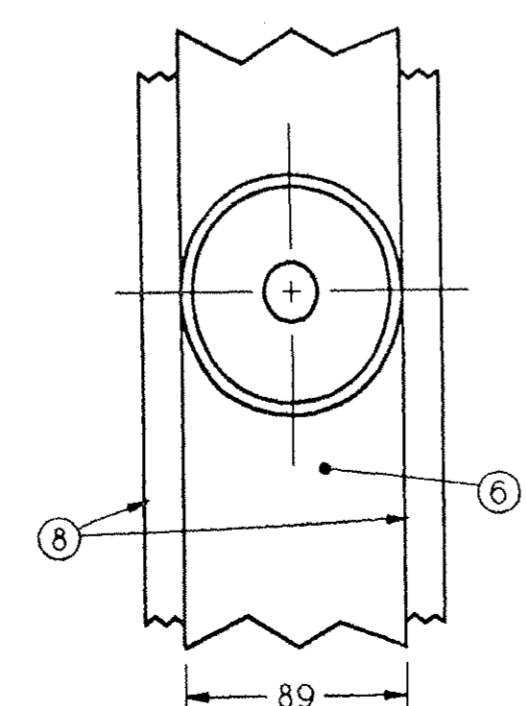
(2) 1" DIA. A325 BOLTS FOR UPPER FLANGE CONNECTIONS (TYP. ALL FLANGES)
(3) 1" DIA. A325 BOLTS FOR LOWER FLANGE CONNECTIONS (TYP. ALL FLANGES)



FLANGE & STIFFENER WELD DETAILS
NOT TO SCALE

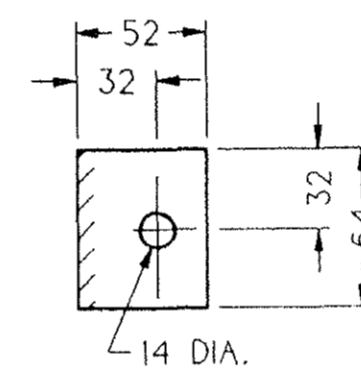


SECTION "A-A"
5x SCALE

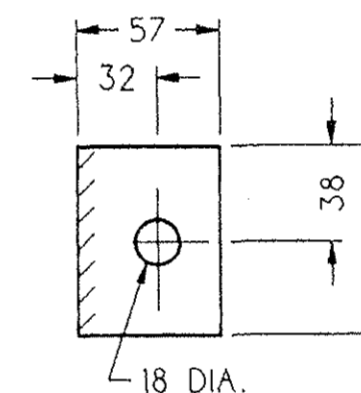


SECTION "B-B"
5x SCALE

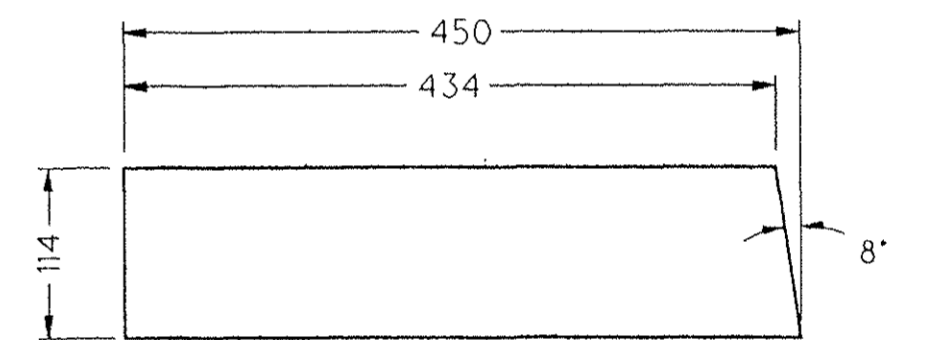
SHOP NOTE:
CHECK THAT SOCKET FOR 1" BOLT FITS BETWEEN STIFFENER WELDS.



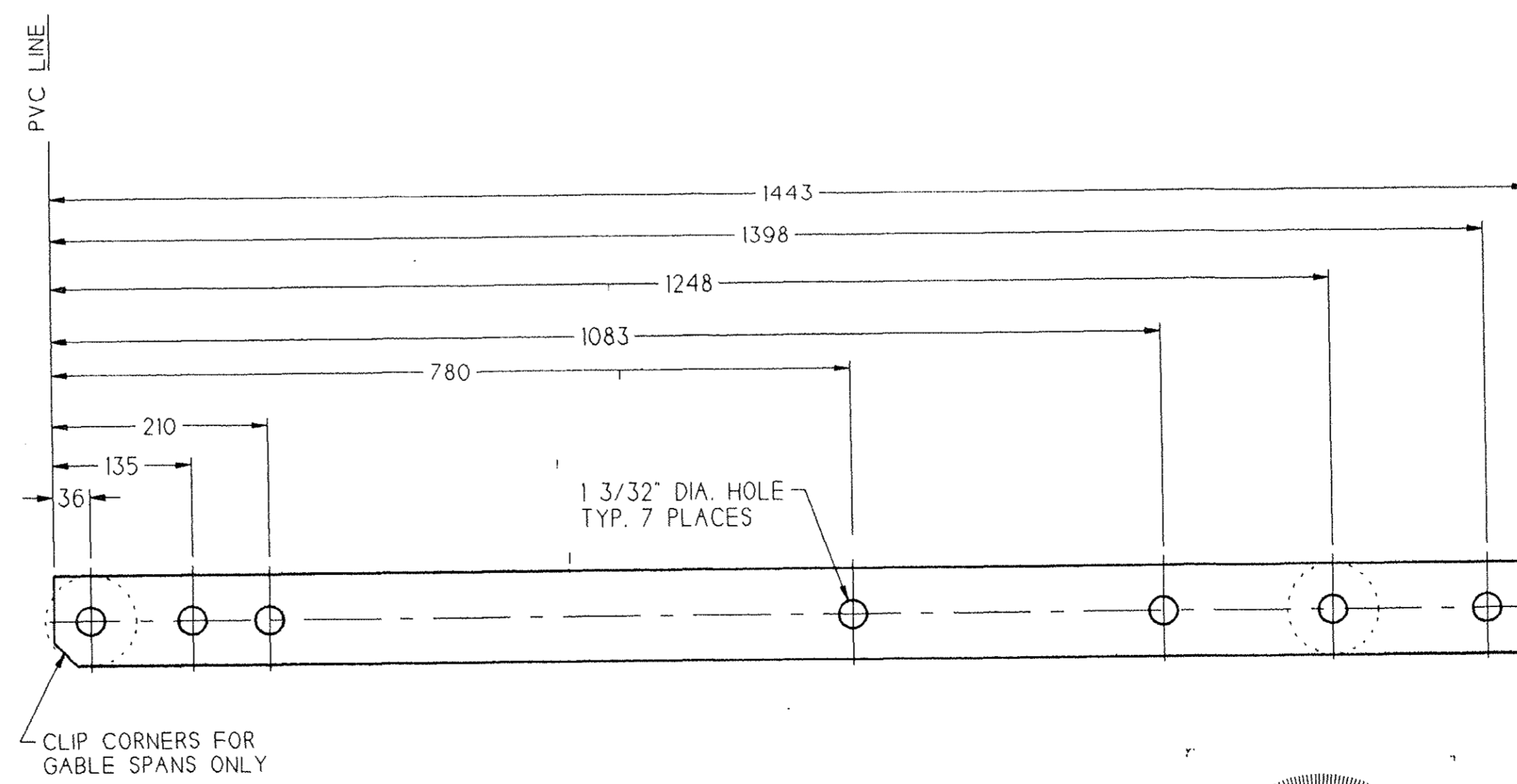
DETAIL ITEM 7
5x SCALE



DETAIL ITEM 10
5x SCALE



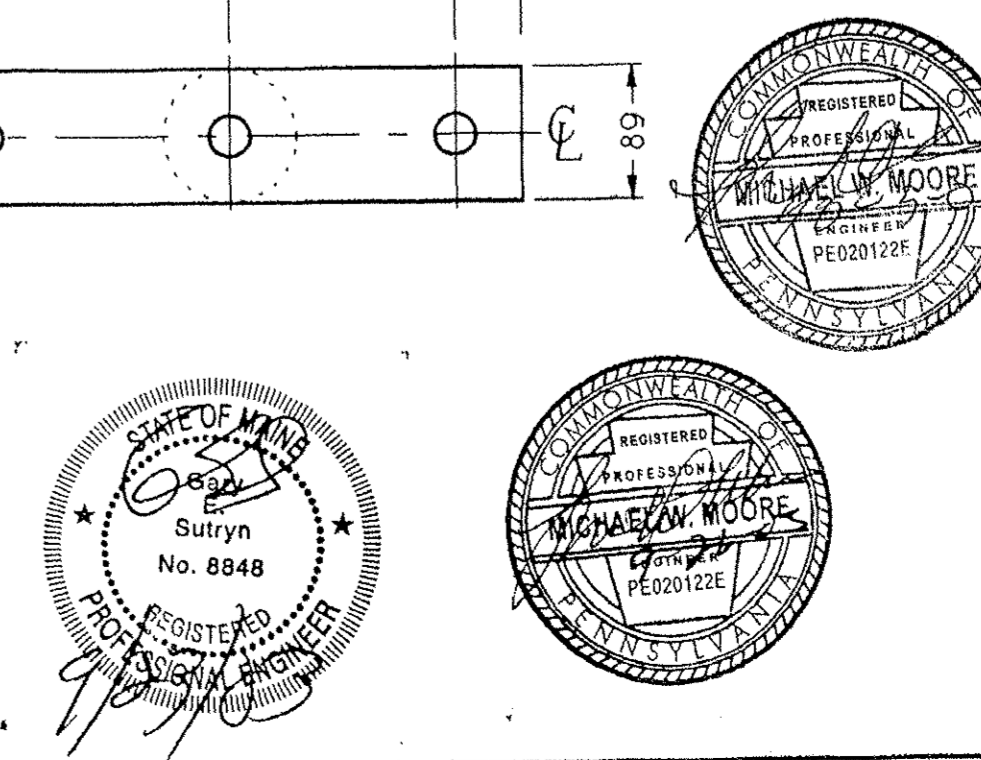
DETAIL ITEM 9
3x SCALE



DETAIL ITEM 6
3x SCALE

ITEM	QTY	DESCRIPTION	SPEC	MIN YIELD
1	1	TUBE 3 1/2" DIA. x .188"	A500	50 ksi
2	1	TUBE 3 1/2" DIA. x .188"	A500	50 ksi
3	2	TUBE 3" DIA. x .120"	A500	50 ksi
4	5	TUBE 1 1/4" DIA. x 0.095"	A500	50 ksi
5	4	TUBE 2 3/8" DIA. x .120"	A500	50 ksi
6	2	FLAT 3 1/2" x 1" x 1443	-	42 ksi
7	5/10	FLAT 2 1/2" x 1/4" x 52	A36	36 ksi
8	4	FLAT 3 1/2" x 3/8" x 380	-	42 ksi
9	4	FLAT 4 1/2" x 1/2" x 450	-	42 ksi
10	5/10	FLAT 3" x 3/8" x 57	A36	36 ksi

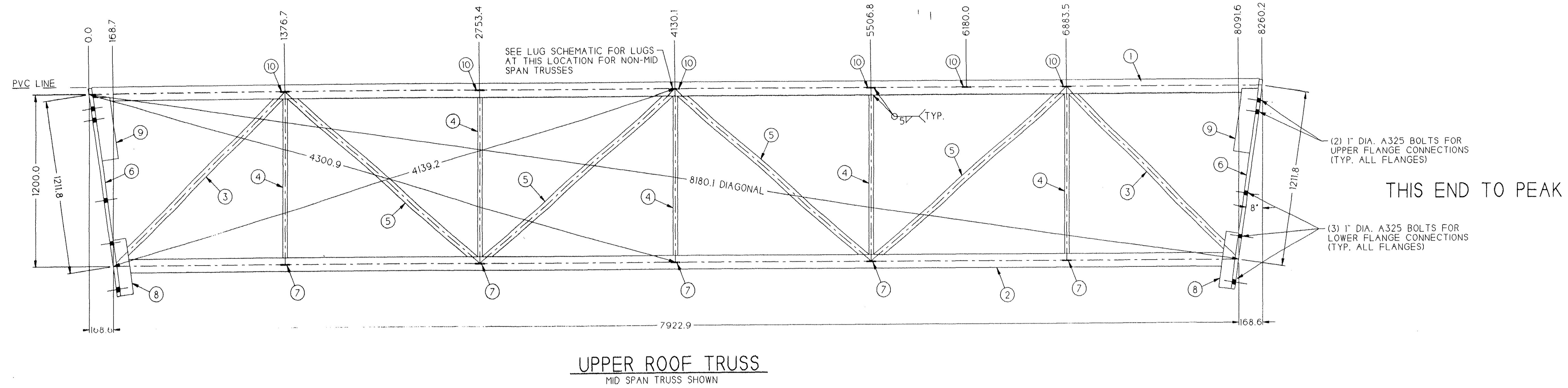
NOTES:
1.) BREAK SHARP CORNERS FOR PVC.
2.) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
3.) BILL OF MATERIAL IS FOR ONE ASSEMBLY.
4.) SEE LUG SCHEMATIC FOR ADDITIONAL LUG DETAILS.
5.) VENT ALL TUBES FOR GALVANIZING.
6.) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.



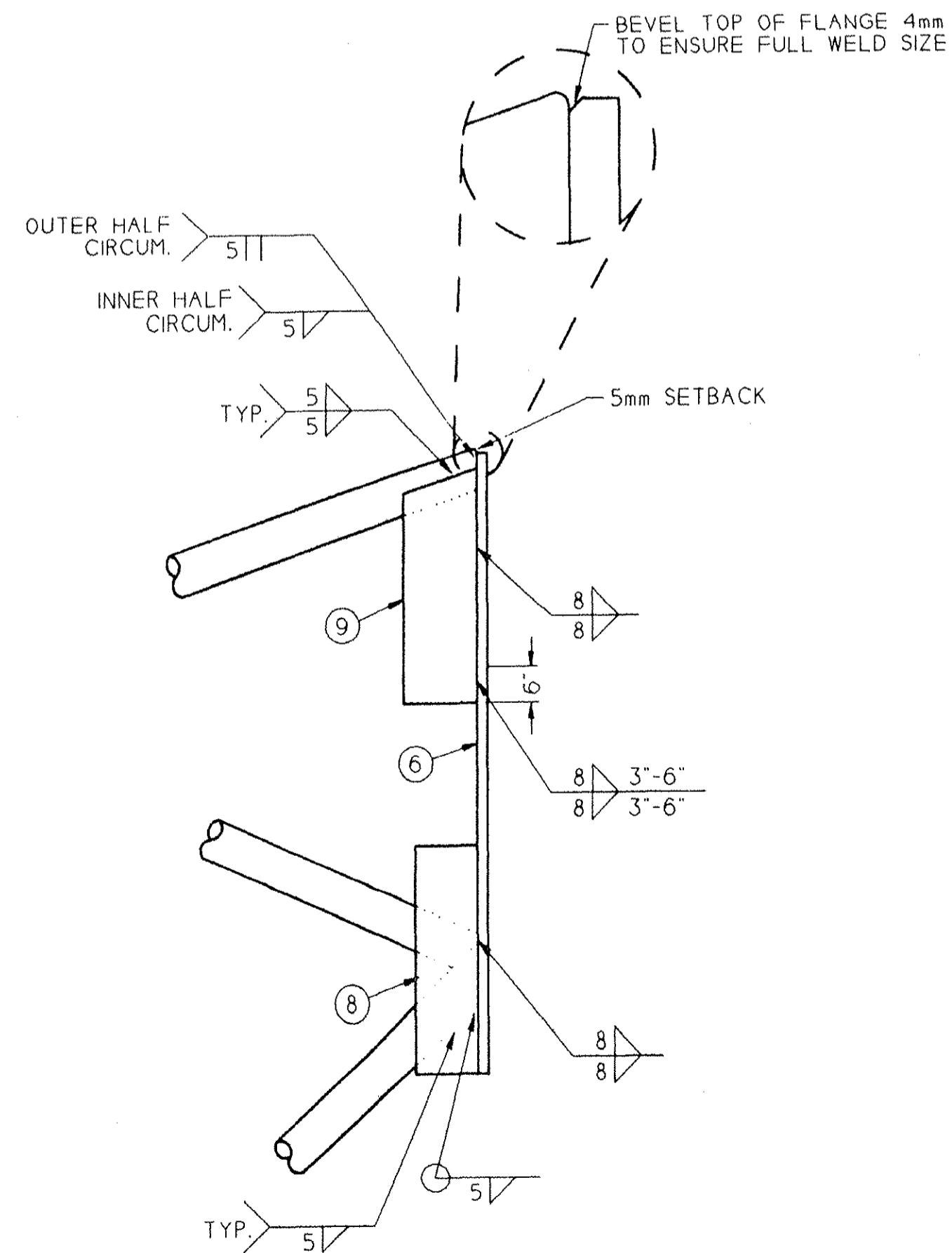
REV.	DESCRIPTION	DRAWN	APP.	DATE
AR 8-9-03	33.5m BVE BILINK / 7m LEG LOWER ROOF TRUSS - 12'-6" BAYS 1200 TRUSS DEPTH	JMG		8/12/03

RUBB
 BUILDING SYSTEMS
 We Cover The World
 RUBB, INC. SANFORD MAINE 04073
 TEL: 207-324-2877 FAX 207-324-2347

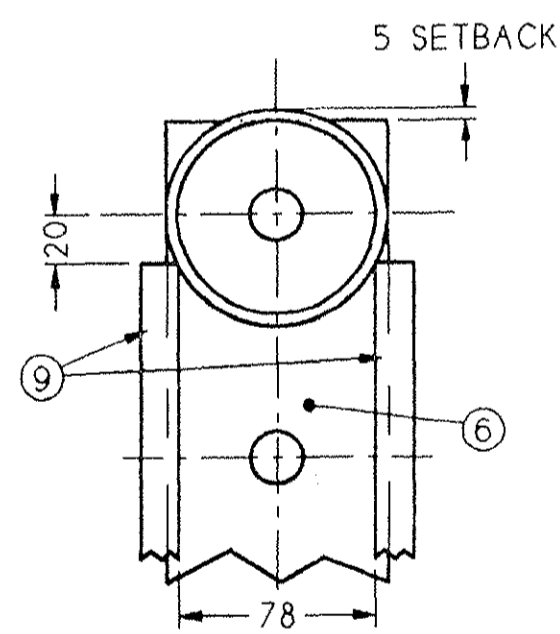
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 DRAWING NO. 37857



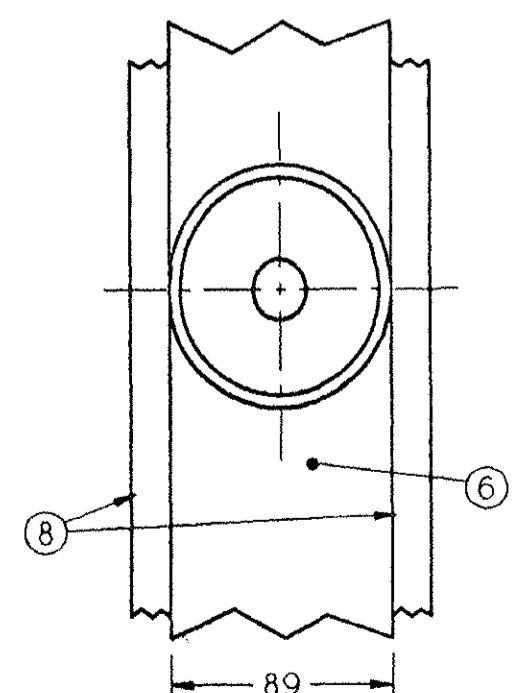
UPPER ROOF TRUSS
MID SPAN TRUSS SHOWN



FLANGE & STIFFENER
WELD DETAILS

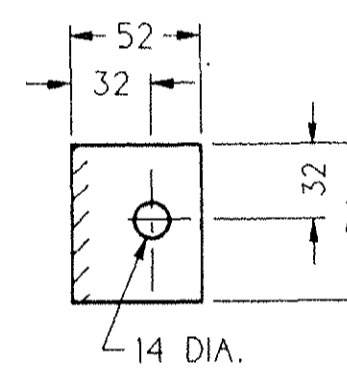


SECTION "A-A"
5x SCALE

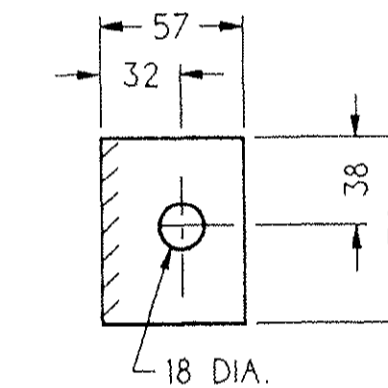


SECTION "B-B"
5x SCALE

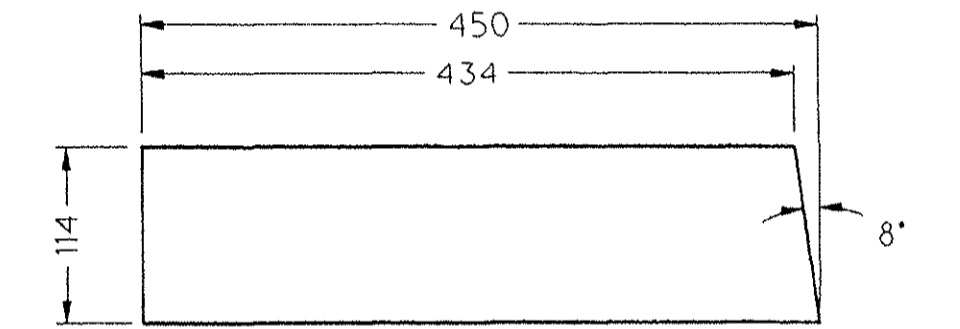
SHOP NOTE:
CHECK THAT SOCKET FOR
1" BOLT FITS BETWEEN
STIFFENER WELDS.



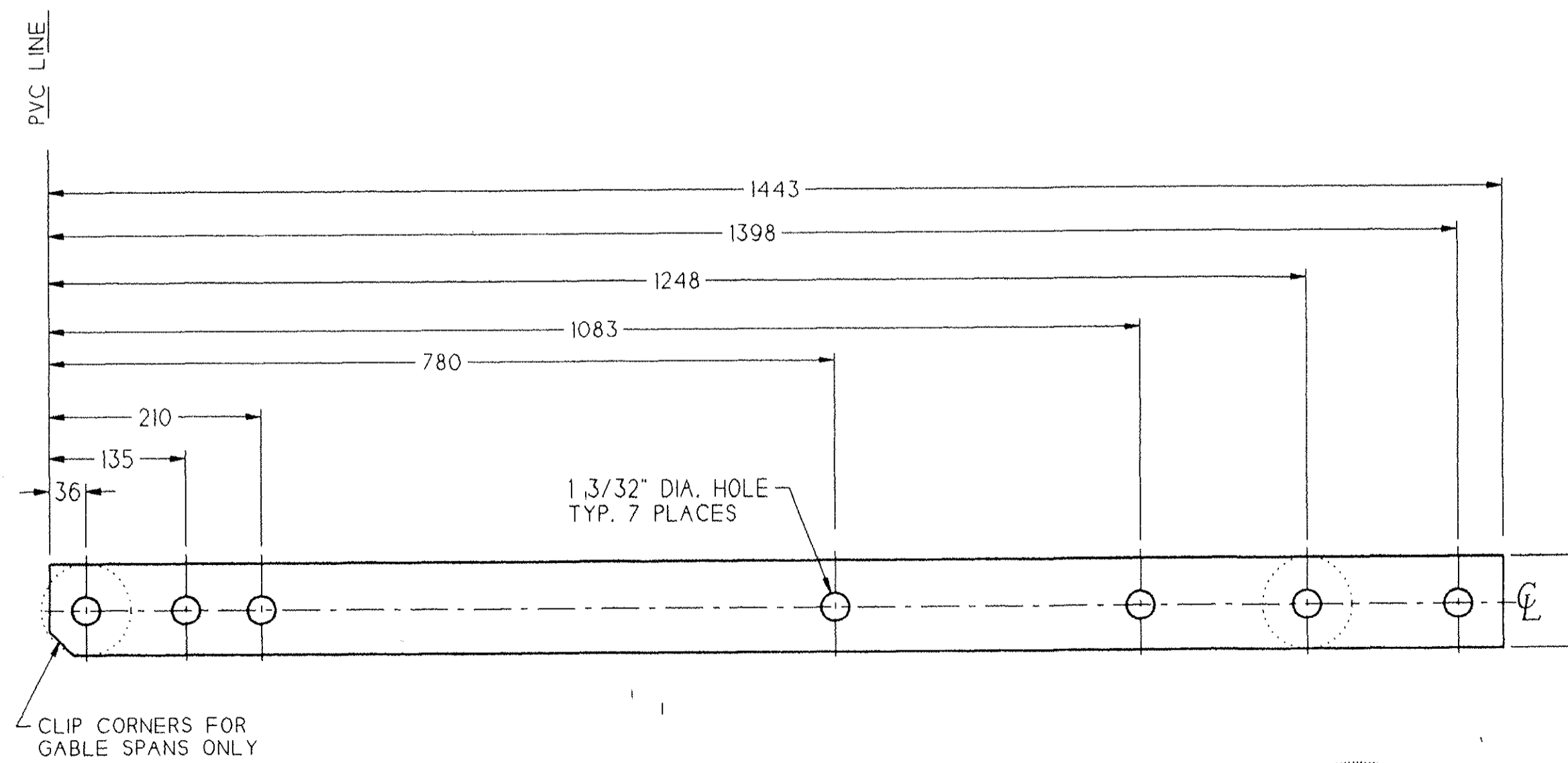
DETAIL ITEM 7
5x SCALE



DETAIL ITEM 10
5x SCALE



DETAIL ITEM 9
3x SCALE

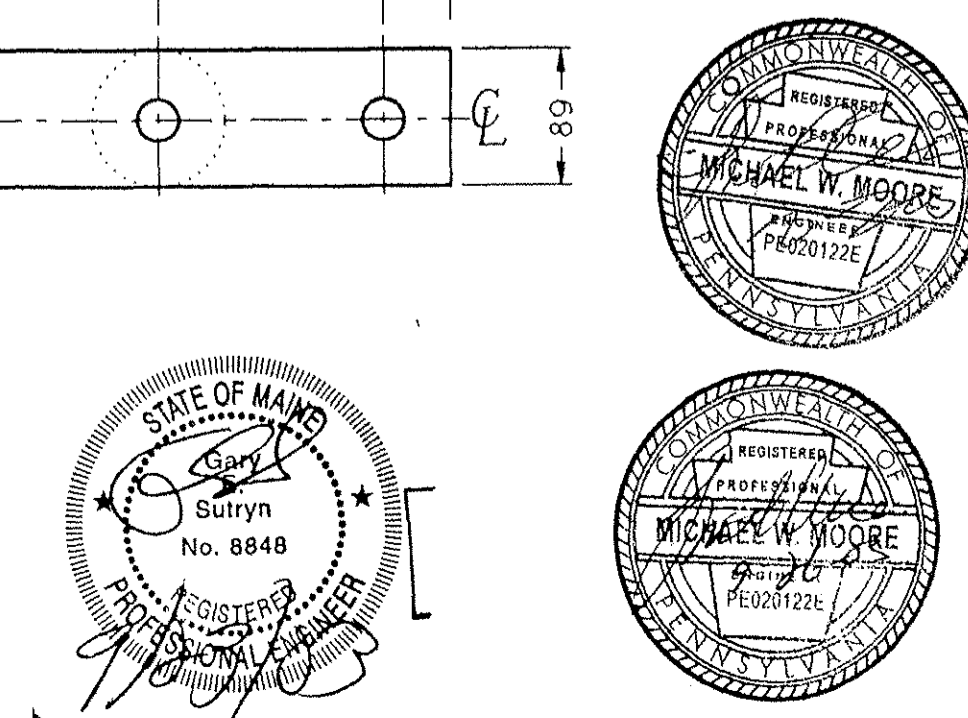


DETAIL ITEM 6
3x SCALE

ITEM	QTY.	DESCRIPTION	SPEC.	MIN. YIELD
1	1	TUBE 3 1/2" DIA. x .120"	A500	50 ksi
2	1	TUBE 3 1/2" DIA. x .120"	A500	50 ksi
3	2	TUBE 1 9/8" DIA. x .109"	A500	59 ksi
4	5	TUBE 1 1/4" DIA. x 0.095"	A500	50 ksi
5	4	TUBE 1 9/8" DIA. x .109"	A500	50 ksi
6	2	FLAT 3 1/2" x 1" x 1443	-	42 ksi
7	5/10	FLAT 2 1/2" x 1/4" x 52	A36	36 ksi
8	4	FLAT 3 1/2" x 3/8" x 380	-	42 ksi
9	4	FLAT 4 1/2" x 1/2" x 450	-	42 ksi
10	6/12	FLAT 3" x 3/8" x 57	A36	36 ksi

- NOTES:
 1.) BREAK SHARP CORNERS FOR PVC.
 2.) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
 3.) BILL OF MATERIAL IS FOR ONE ASSEMBLY.
 4.) SEE LUG SCHEMATIC FOR ADDITIONAL LUG DETAILS.
 5.) VENT ALL TUBES FOR GALVANIZING.
 6.) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.

JIG #217



REV.	DESCRIPTION	DATE	APP.	DATE
A	CHANGED ITEM #3 MINIMUM YIELD	MWB	GES	8/12/03

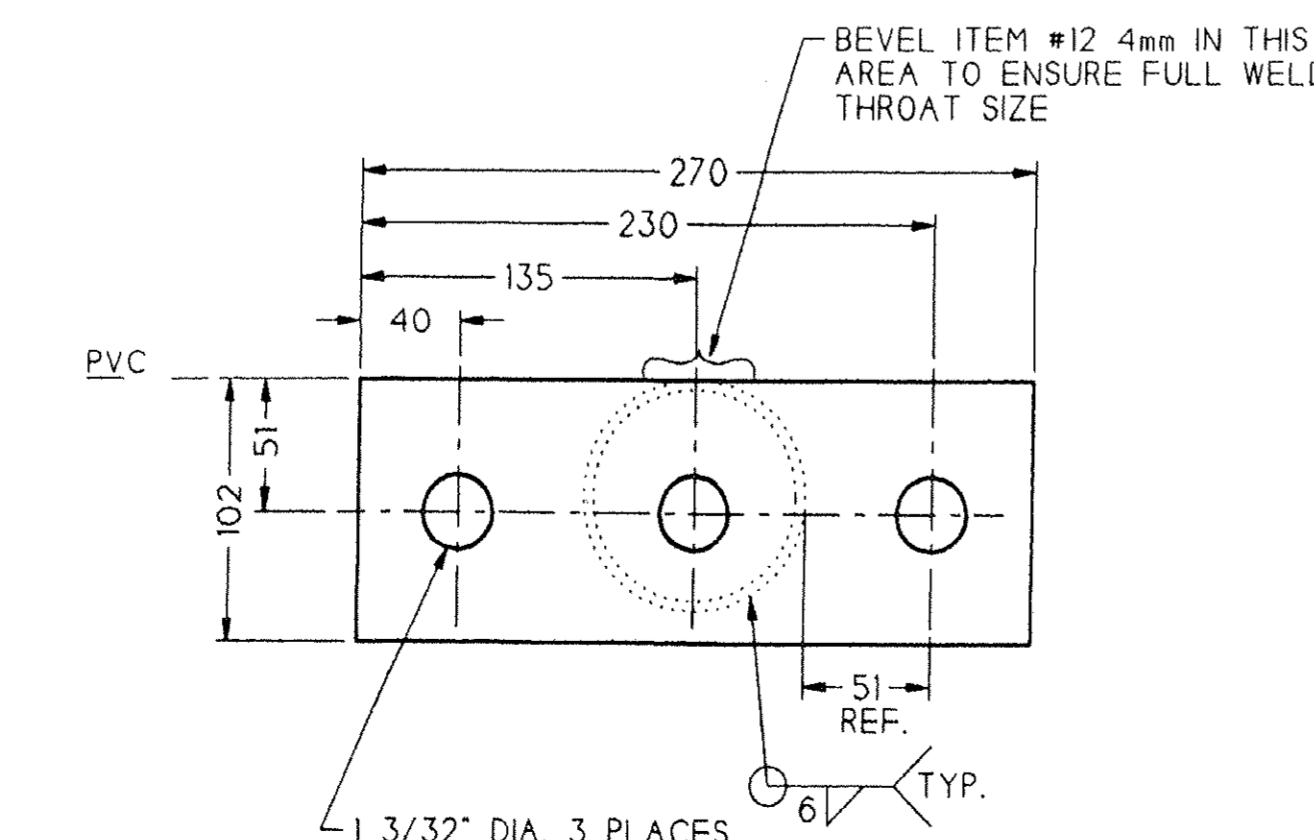
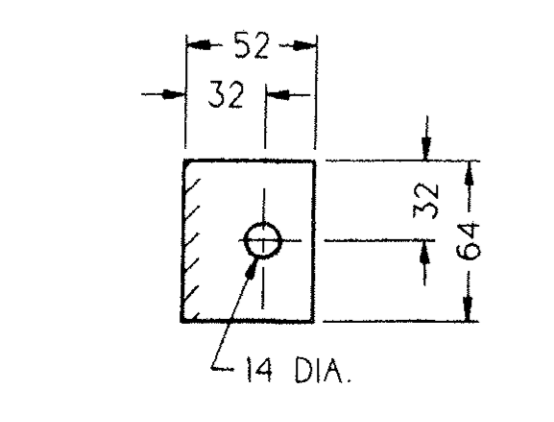
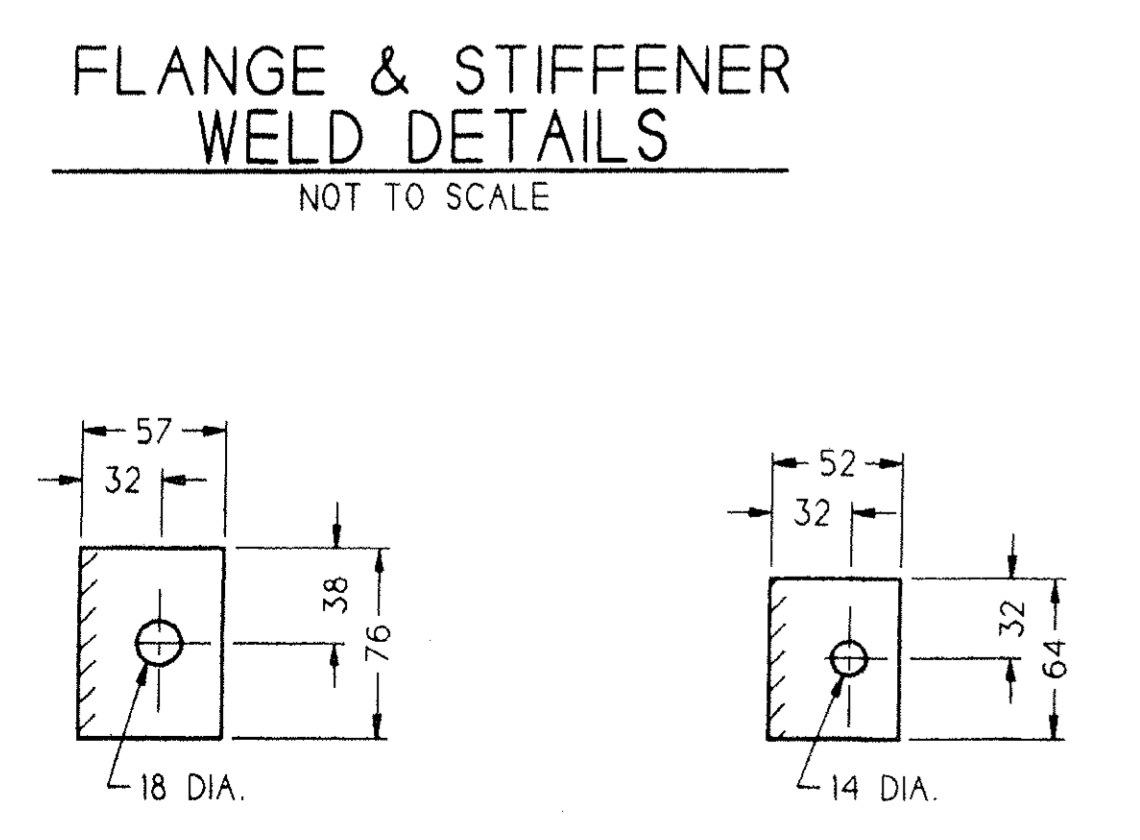
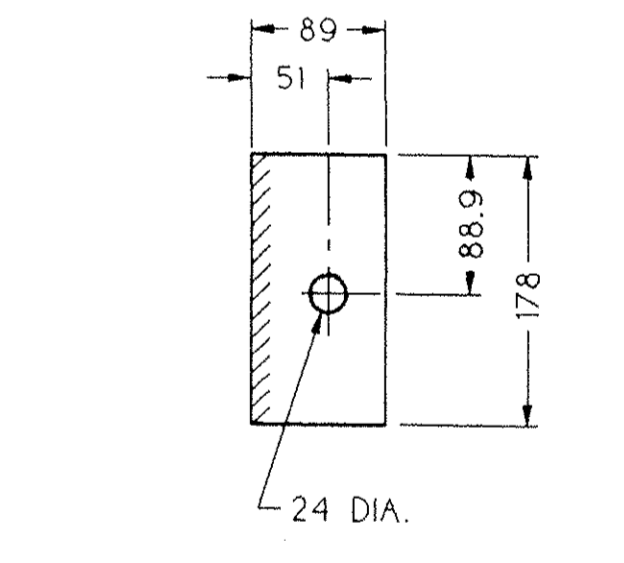
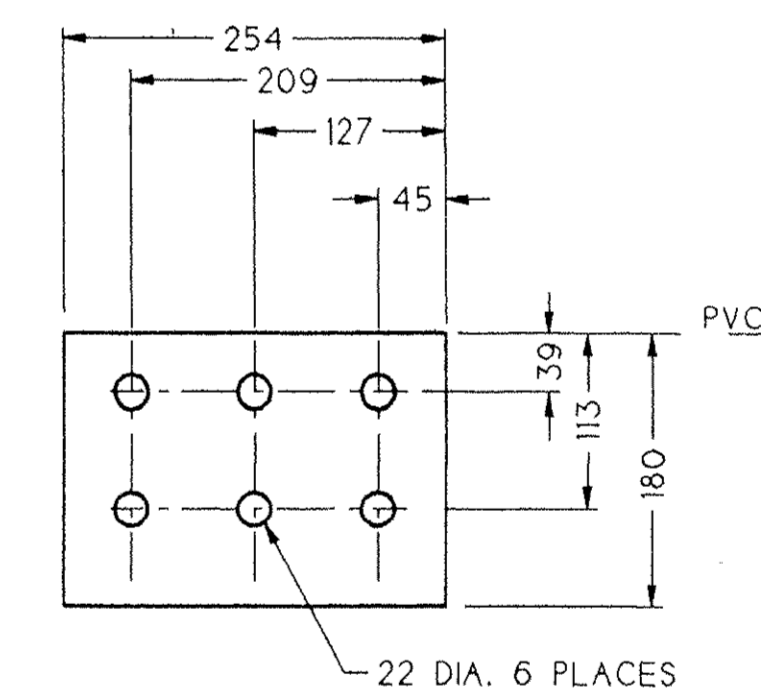
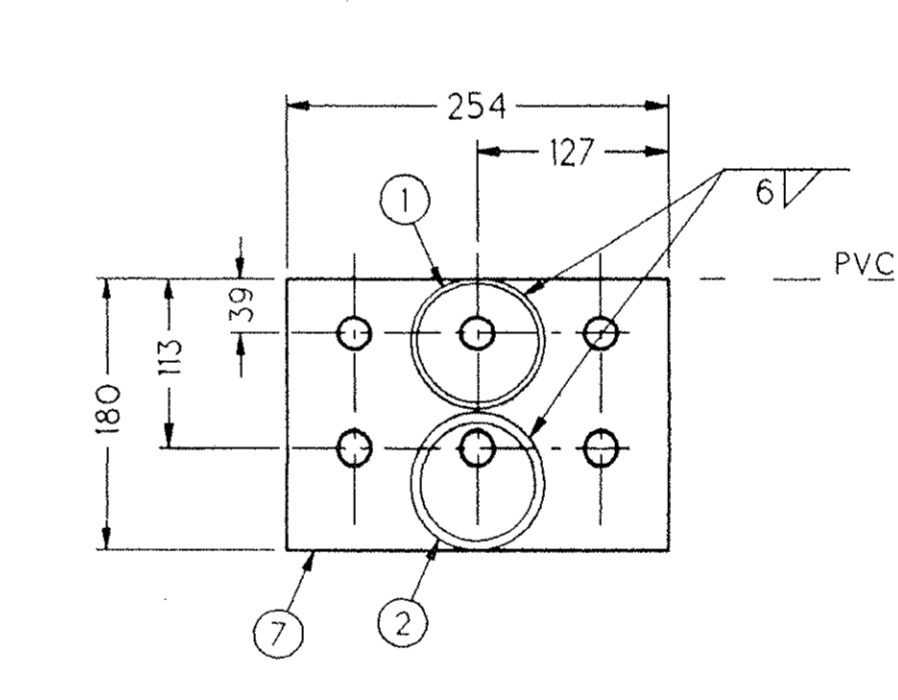
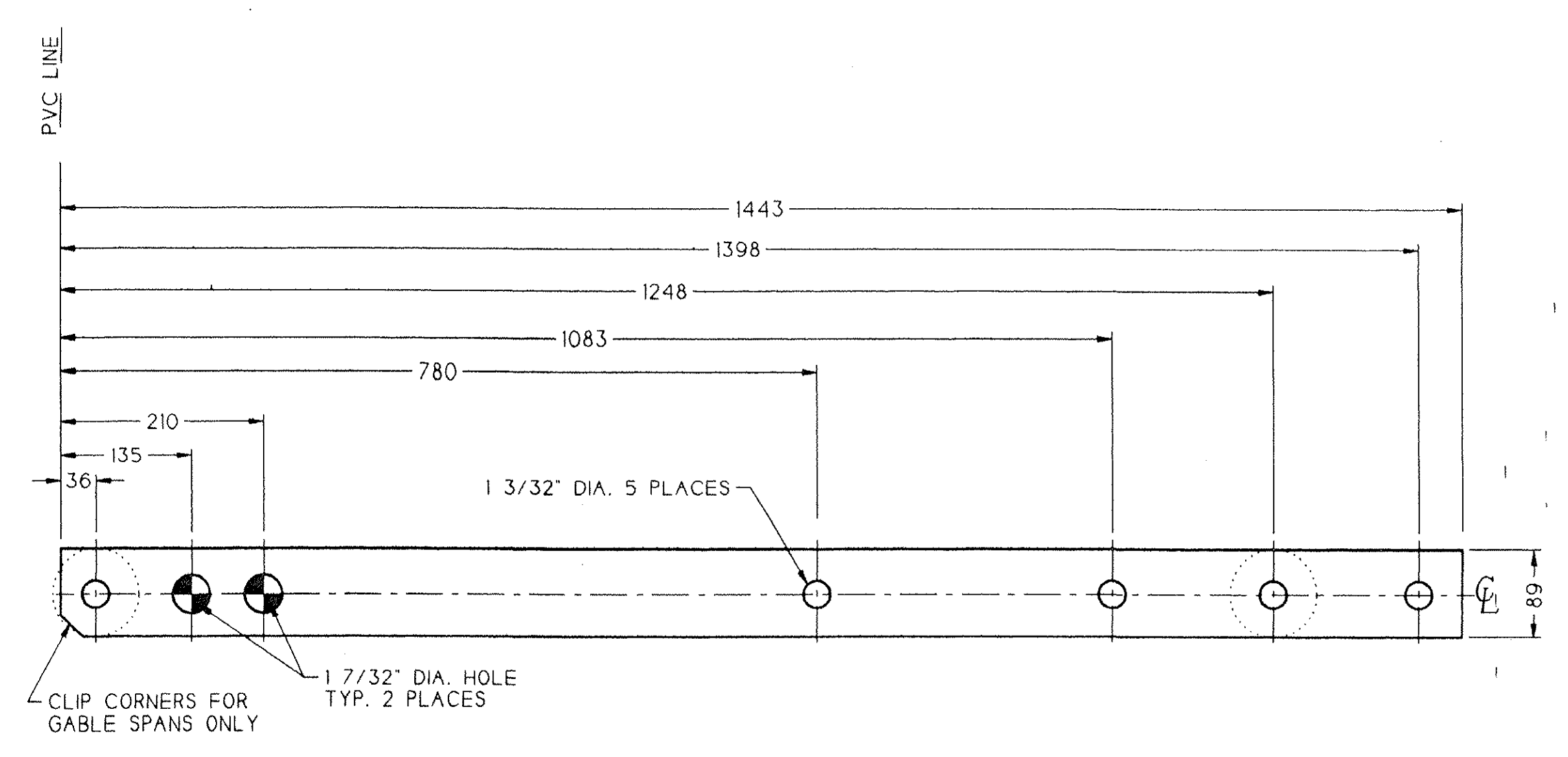
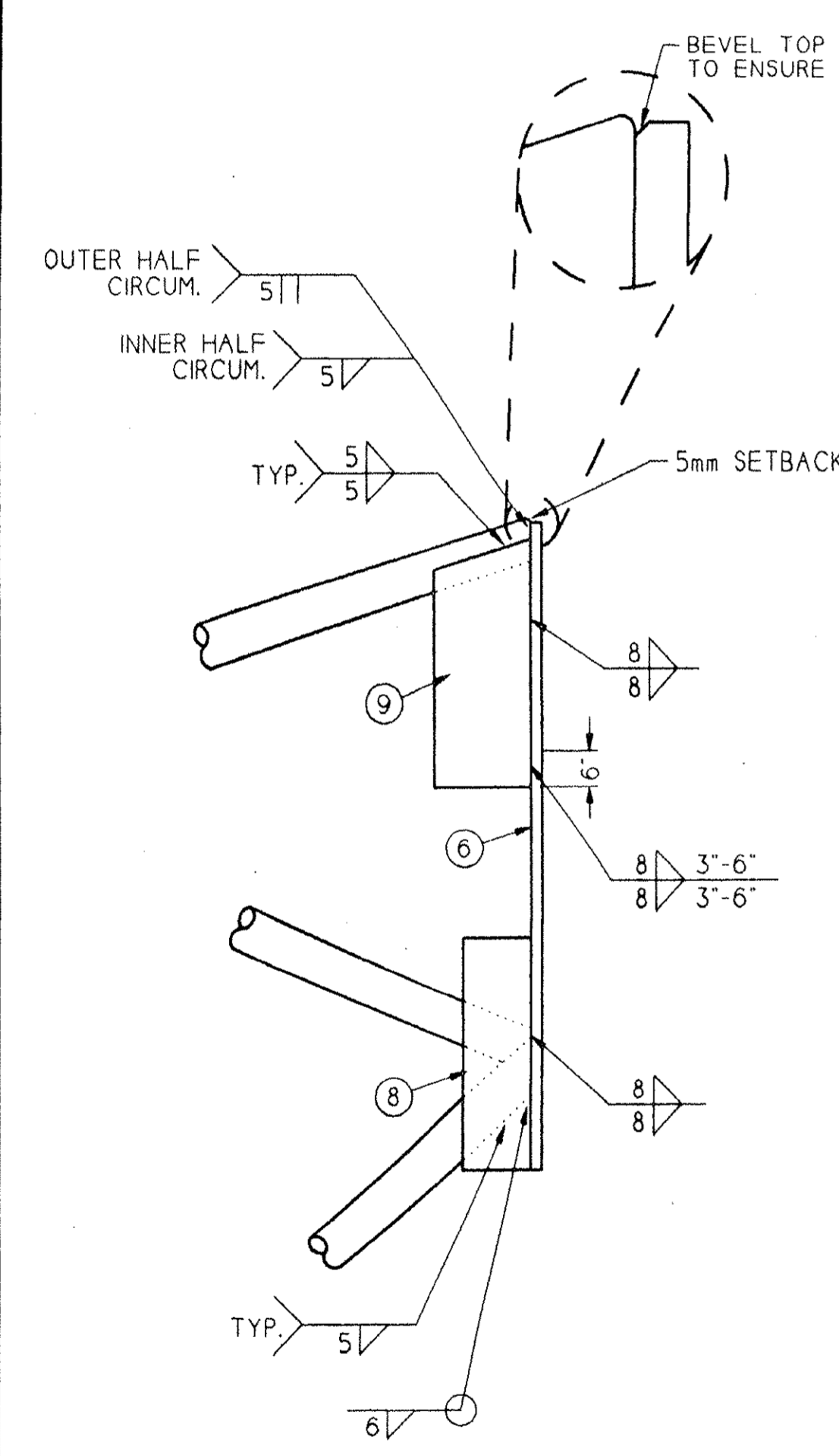
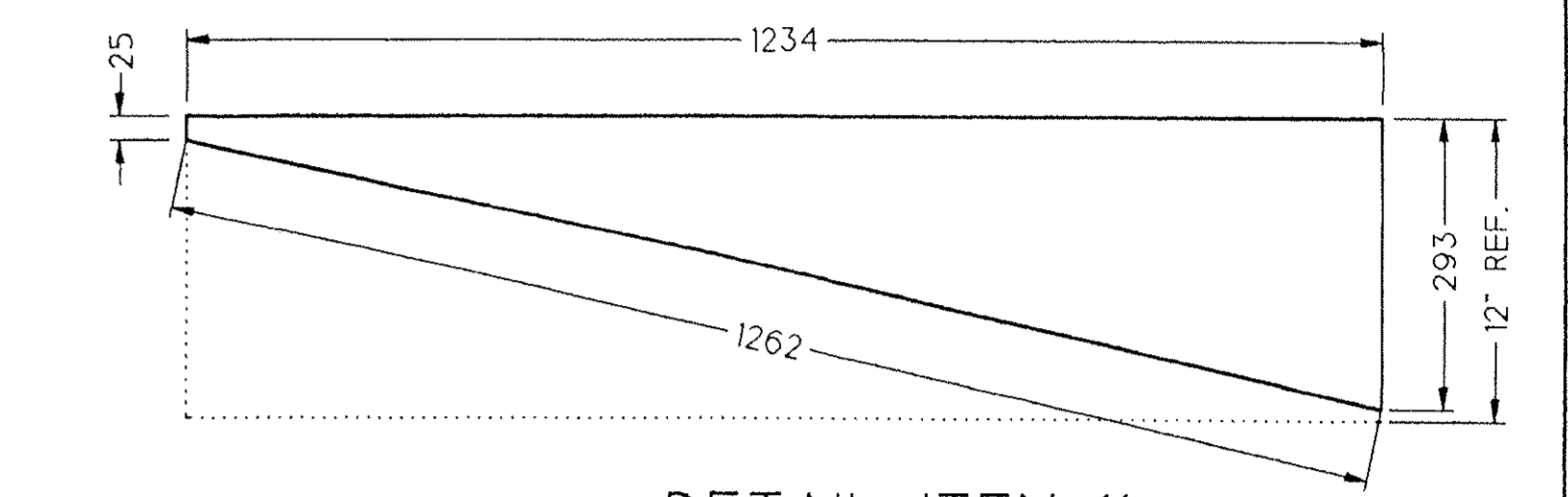
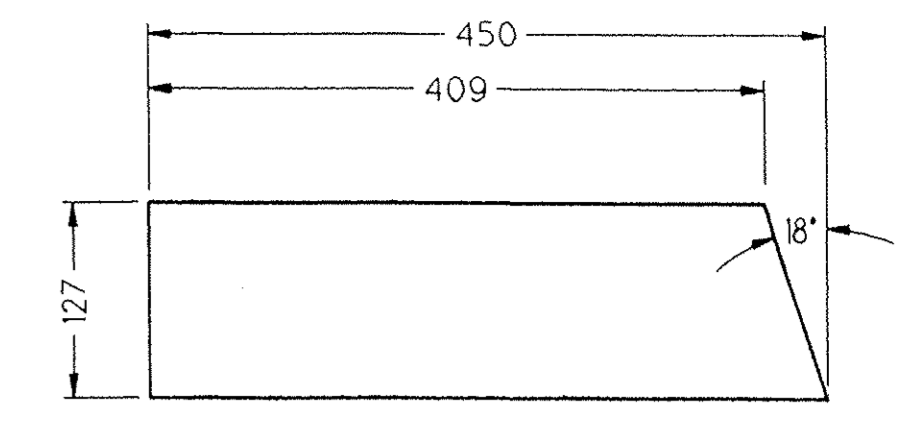
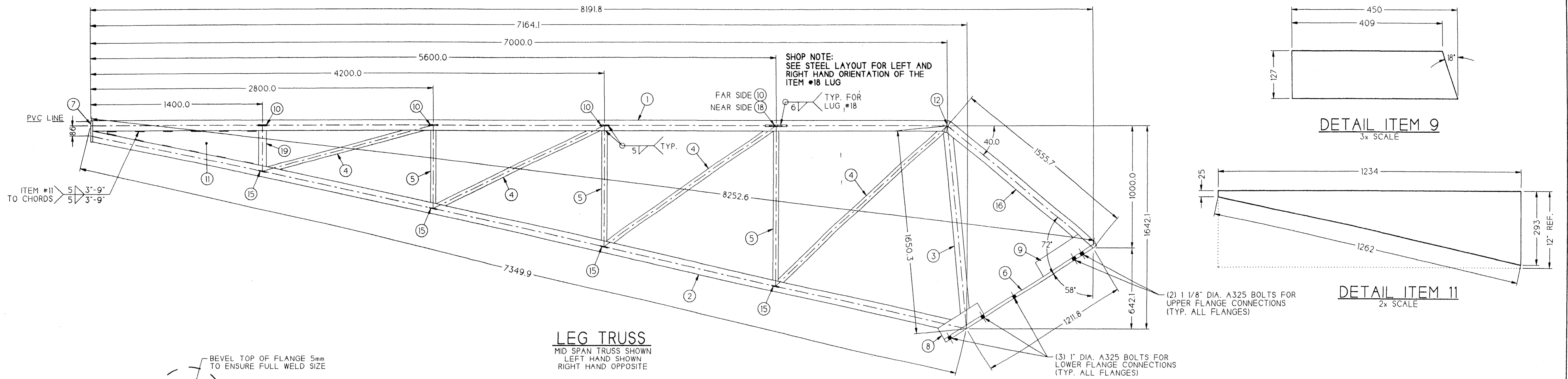
We Cover The World
RUBB
 BUILDING SYSTEMS

33.5m BVE BILINK / 7m LEG
 UPPER ROOF TRUSS - 12'-6" BAYS
 1200 TRUSS DEPTH

SCALE 1:15
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RUBB, INC. SANFORD MAINE 04073
 TEL: 207-324-2877 FAX 207-324-2347

37858



NOTES:
1.) BREAK SHARP CORNERS FOR PVC.
2.) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
3.) BILL OF MATERIAL IS FOR ONE ASSEMBLY.
4.) SEE LUG SCHEMATIC FOR ADDITIONAL LUG DETAILS.
5.) VENT ALL TUBES FOR GALVANIZING.
6.) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.

ITEM	QTY.	DESCRIPTION	SPEC.	MIN. YIELD
1	1	TUBE 3 1/2" DIA. x 0.188"	A500	50 ksi
2	1	TUBE 3 1/2" DIA. x 0.25"	A500	59 ksi
3	1	TUBE 3" DIA. x 0.188"	A500	50 ksi
4	4	TUBE 1 9/8" DIA. x 0.109"	A500	50 ksi
5	3	TUBE 1 7/8" DIA. x 0.095"	A500	50 ksi
6	1	FLAT 3 1/2" x 1" x 1443	A500	50 ksi
7	1	FLAT 10" x 5/8" x 180	A36	42 ksi
8	2	FLAT 4" x 3/8" x 380	A36	36 ksi
9	2	FLAT 5" x 5/8" x 450	A36	42 ksi
10	7	FLAT 3" x 3/8" x 57	A36	36 ksi
11	1	FLAT 12" x 3/16" x 1234	A36	36 ksi
12	1	FLAT 4" x 5/8" x 270	A36	36 ksi
13	-	-	-	-
14	-	-	-	-
15	8	FLAT 2 1/2" x 1/4" x 52	A36	36 ksi
16	1	TUBE 3 1/2" DIA. x 0.156"	A500	50 ksi
17	-	-	-	-
18	1	FLAT 3 1/2" x 5/8" x 178	A36	36 ksi
19	1	FLAT 2 1/2" x 1/2"	A36	36 ksi

Professional Engineer Seal: MICHAEL W. MOORE, ENGINEER, PE000122E

Professional Engineer Seal: MICHAEL W. MOORE, ENGINEER, PE000122E

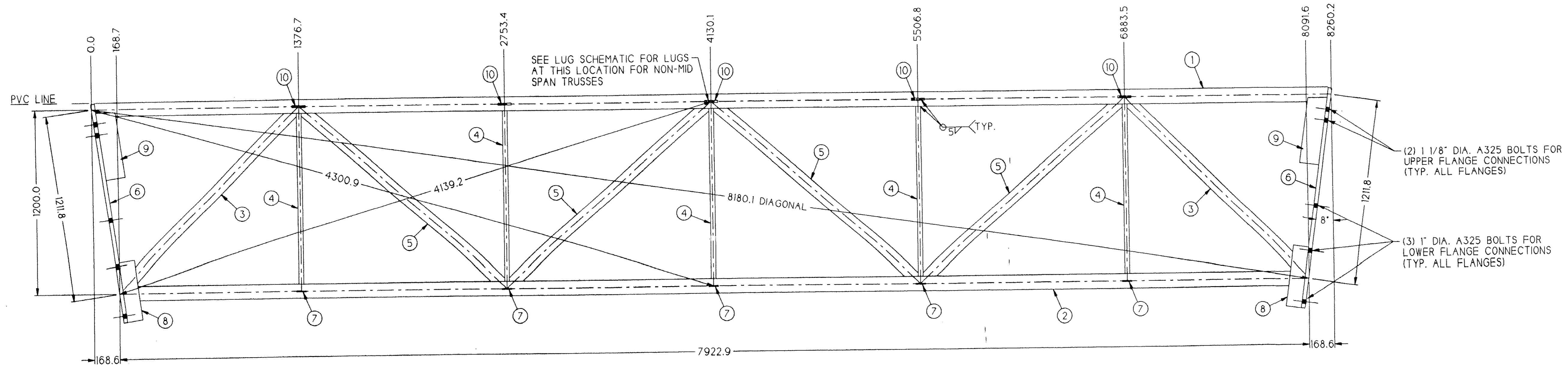
Professional Engineer Seal: MICHAEL W. MOORE, ENGINEER, PE000122E

B	CHANGED ITEMS #1, #2, #3, #6 & #9	MRB	8/26/03
A	CHANGED ITEM #12	AR	GES 8/26/03

REV.	DESCRIPTION	DRAWN	APP.	DATE
1	We Cover The World	JMG		
2	RUBB BUILDING SYSTEMS	JMG		
3	33.5m BVE BILINK / 7m LEG TRUSS - 24'-0" BAYS	JMG		

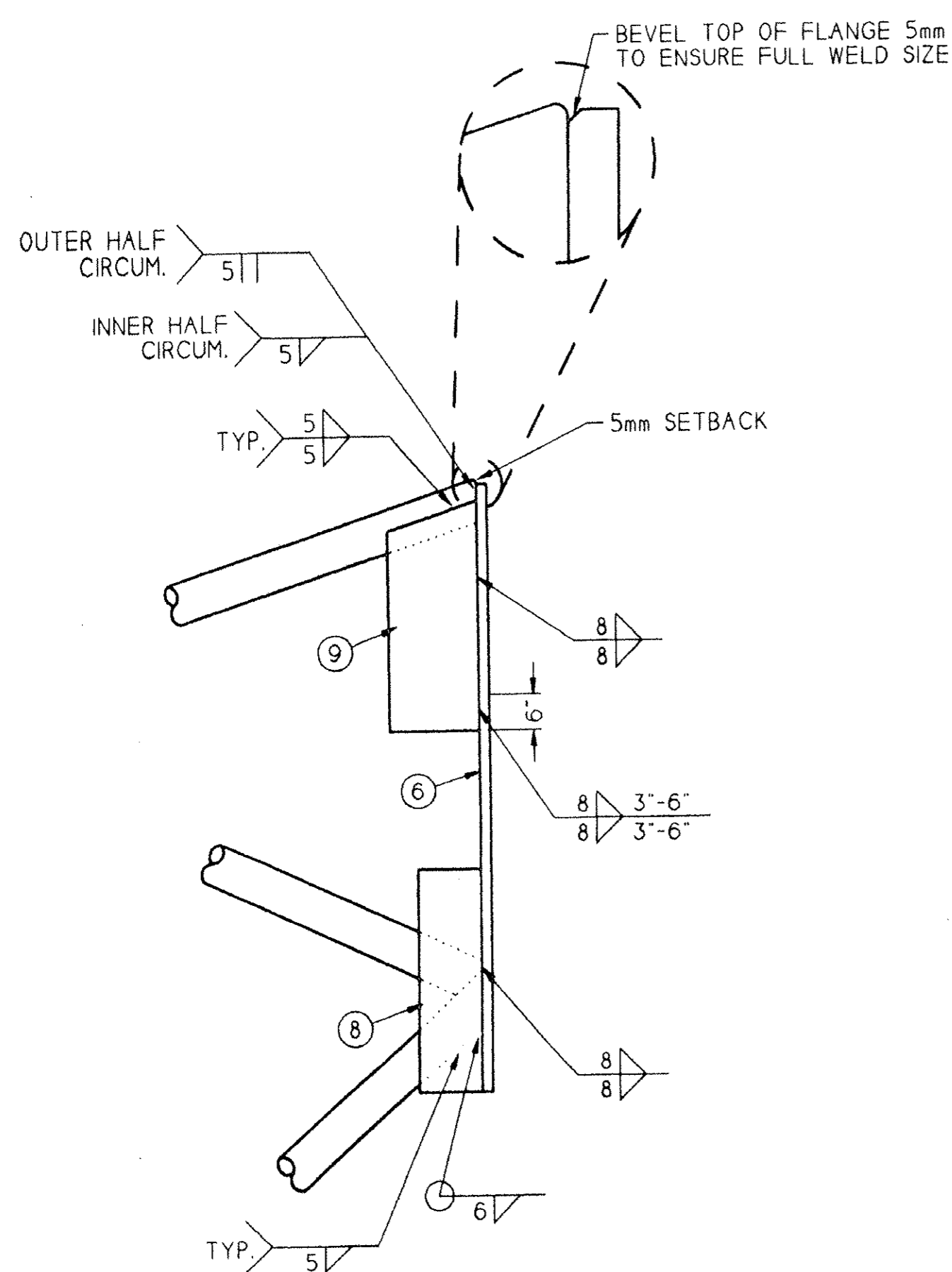
DRWN: AR 8-11-03 SCALE: 1 : 15
APP: GES 8-16-03 JOB #: 03088
DATE: 8/26/03 JOB NAME: JMG

RUBB, INC. SANFORD MAINE 04073
TEL: 207-324-2877 FAX 207-324-2347
DRAWING NO: 37859

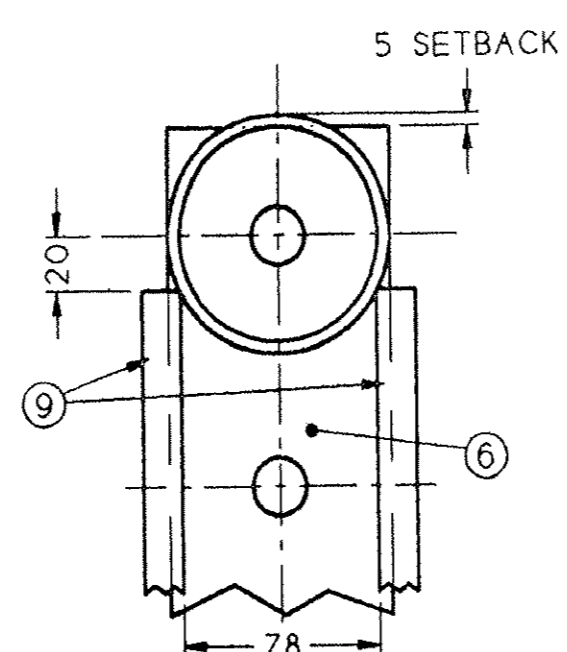


LOWER ROOF TRUSS
MID SPAN TRUSS SHOWN

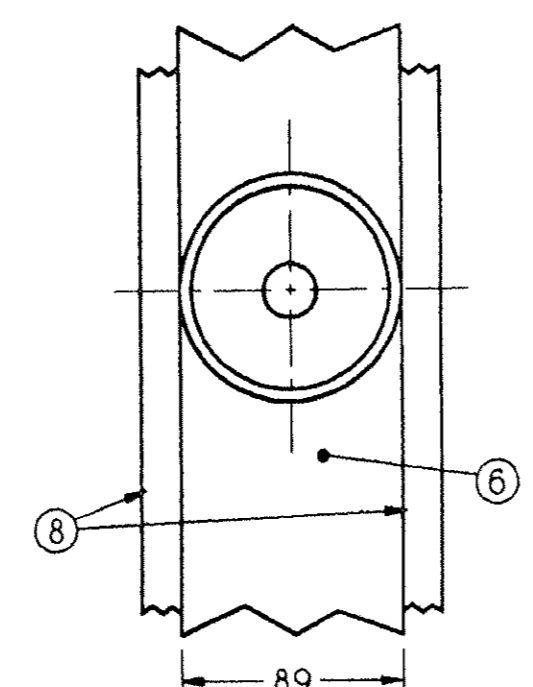
(2) 1 1/8" DIA. A325 BOLTS FOR UPPER FLANGE CONNECTIONS (TYP. ALL FLANGES)
(3) 1" DIA. A325 BOLTS FOR LOWER FLANGE CONNECTIONS (TYP. ALL FLANGES)



FLANGE & STIFFENER WELD DETAILS
NOT TO SCALE

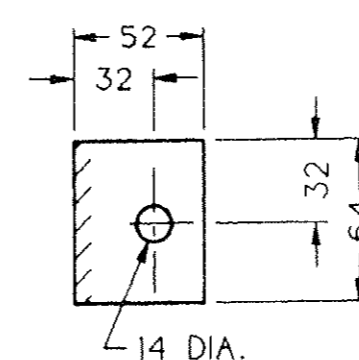


SECTION "A-A"
5x SCALE

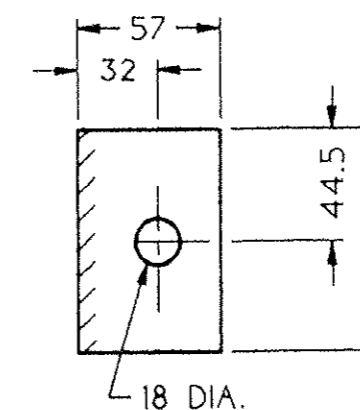


SECTION "B-B"
5x SCALE

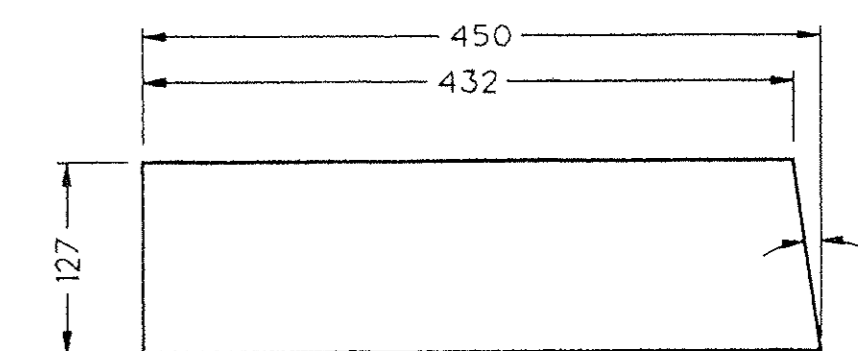
SHOP NOTE:
CHECK THAT SOCKET FOR 1" BOLT FITS BETWEEN STIFFENER WELDS.



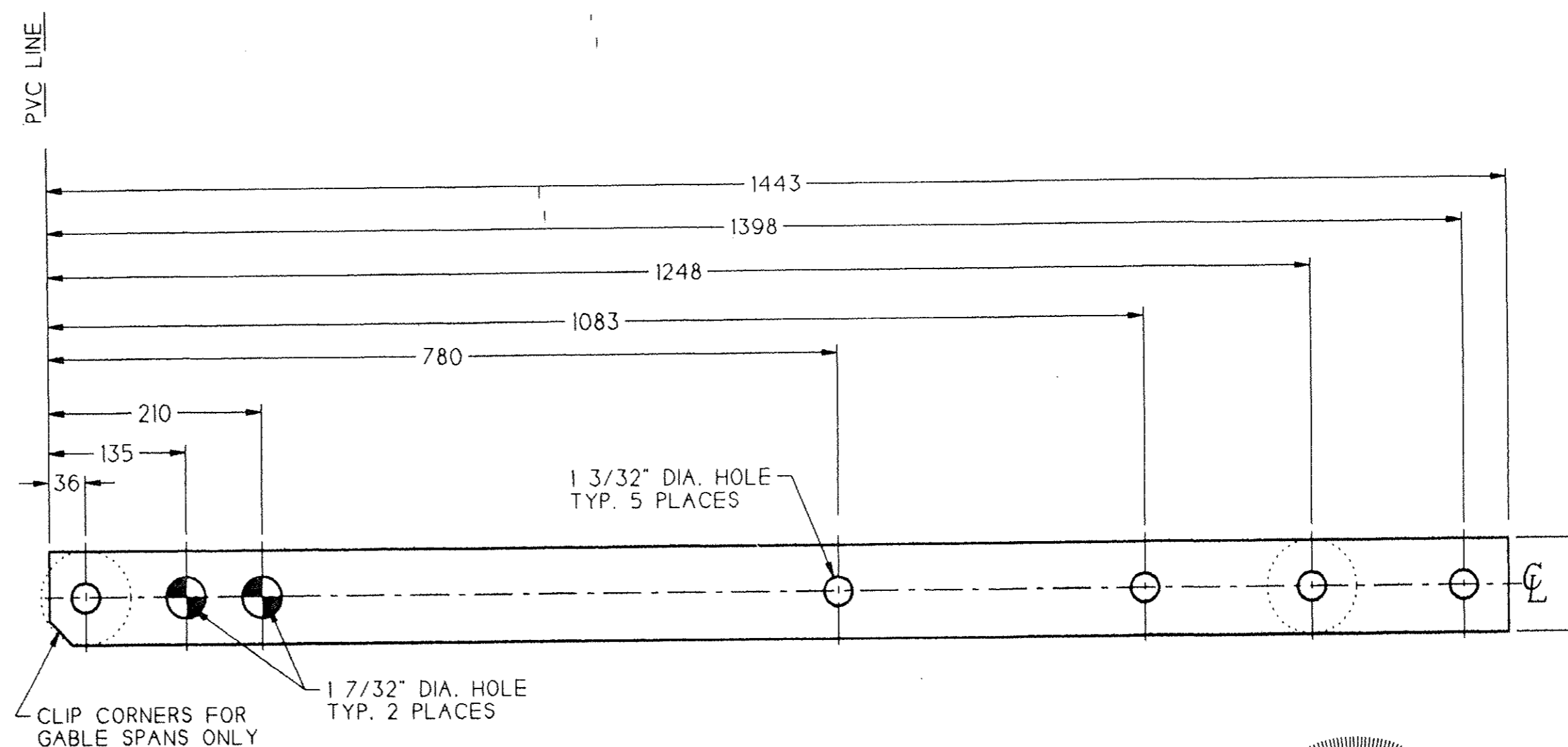
DETAIL ITEM 7
5x SCALE



DETAIL ITEM 10
5x SCALE



DETAIL ITEM 9
3x SCALE



DETAIL ITEM 6
3x SCALE

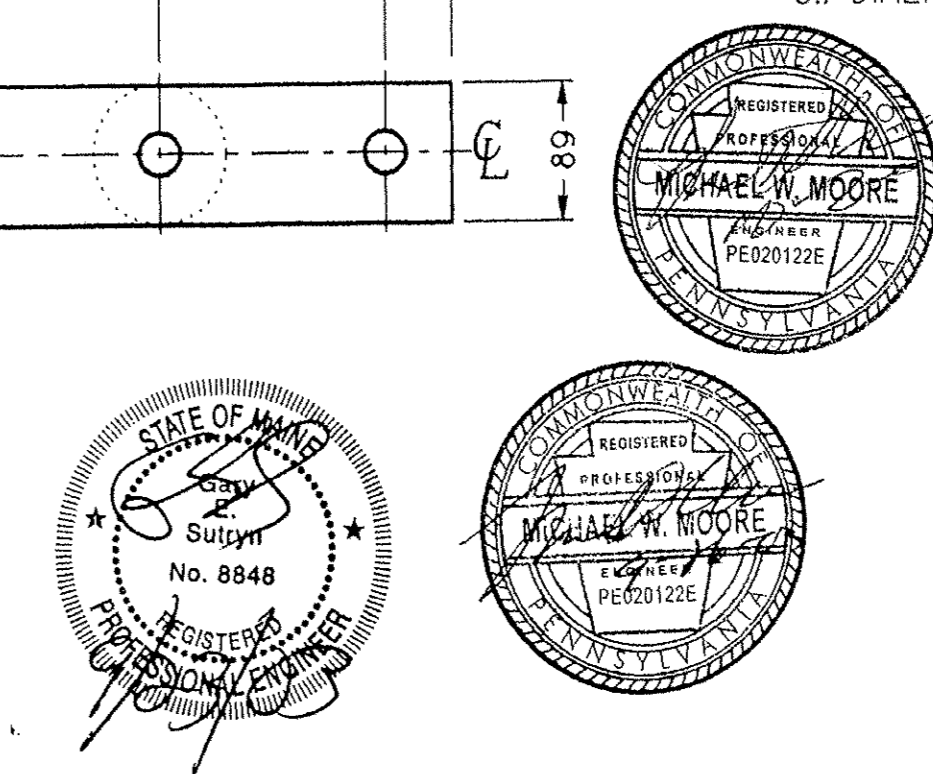
ITEM	QTY	DESCRIPTION	SPEC.	MIN. YIELD
1	1	TUBE 3 1/2" DIA. x .188"	A500	50 ksi
2	1	TUBE 3 1/2" DIA. x .25"	A500	50 ksi
3	2	TUBE 3" DIA. x .120"	A500	56 ksi
4	5	TUBE 1 1/4" DIA. x 0.095"	A500	50 ksi
5	4	TUBE 3" DIA. x .120"	A500	50 ksi
6	2	FLAT 3 1/2" x 1" x 1443	-	42 ksi
7	5/10	FLAT 2 1/2" x 1/4" x 52	A36	36 ksi
8	4	FLAT 4" x 3/8" x 380	-	42 ksi
9	4	FLAT 5" x 5/8" x 450	-	42 ksi
10	5/10	FLAT 3 1/2" x 1/2" x 57	A36	36 ksi

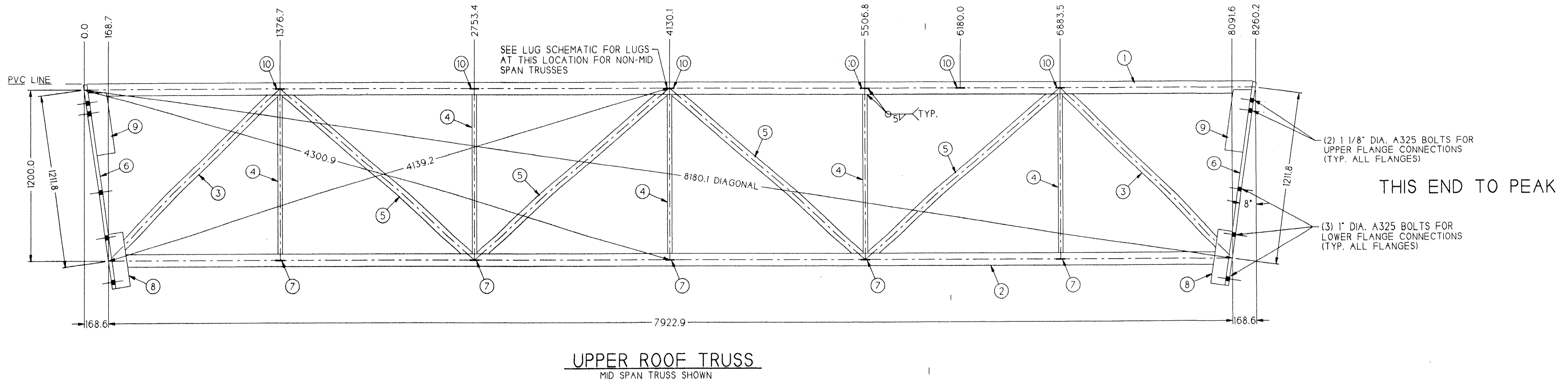
NOTES:
1.) BREAK SHARP CORNERS FOR PVC.
2.) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
3.) BILL OF MATERIAL IS FOR ONE ASSEMBLY.
4.) SEE LUG SCHEMATIC FOR ADDITIONAL LUG DETAILS.
5.) VENT ALL TUBES FOR GALVANIZING.
6.) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.

JIG #217

B	CHANGED ITEMS #6 & #9	MRB	GES	9/16/03
A	CHANGED ITEM #2	AR	GES	8/16/03

REV	DESCRIPTION	DRAWN	APP.	DATE
1	We Cover The World RUBB BUILDING SYSTEMS			
2	33.5m BVE BILINK / 7m LEG LOWER ROOF TRUSS - 24'-0" BAYS 1200 TRUSS DEPTH			
DRAWN	AR 8-11-03	SCALE	1 : 15	This drawing is the property of Rubb, Inc. and may not be reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.
APP.	GES 8-13-03	JOB #	03088	
DATE		JOB NAME	JMG	
RUBB, INC. SANFORD MAINE 04073 TEL: 207-324-2877 FAX 207-324-2347				DRAWING NO. 37860



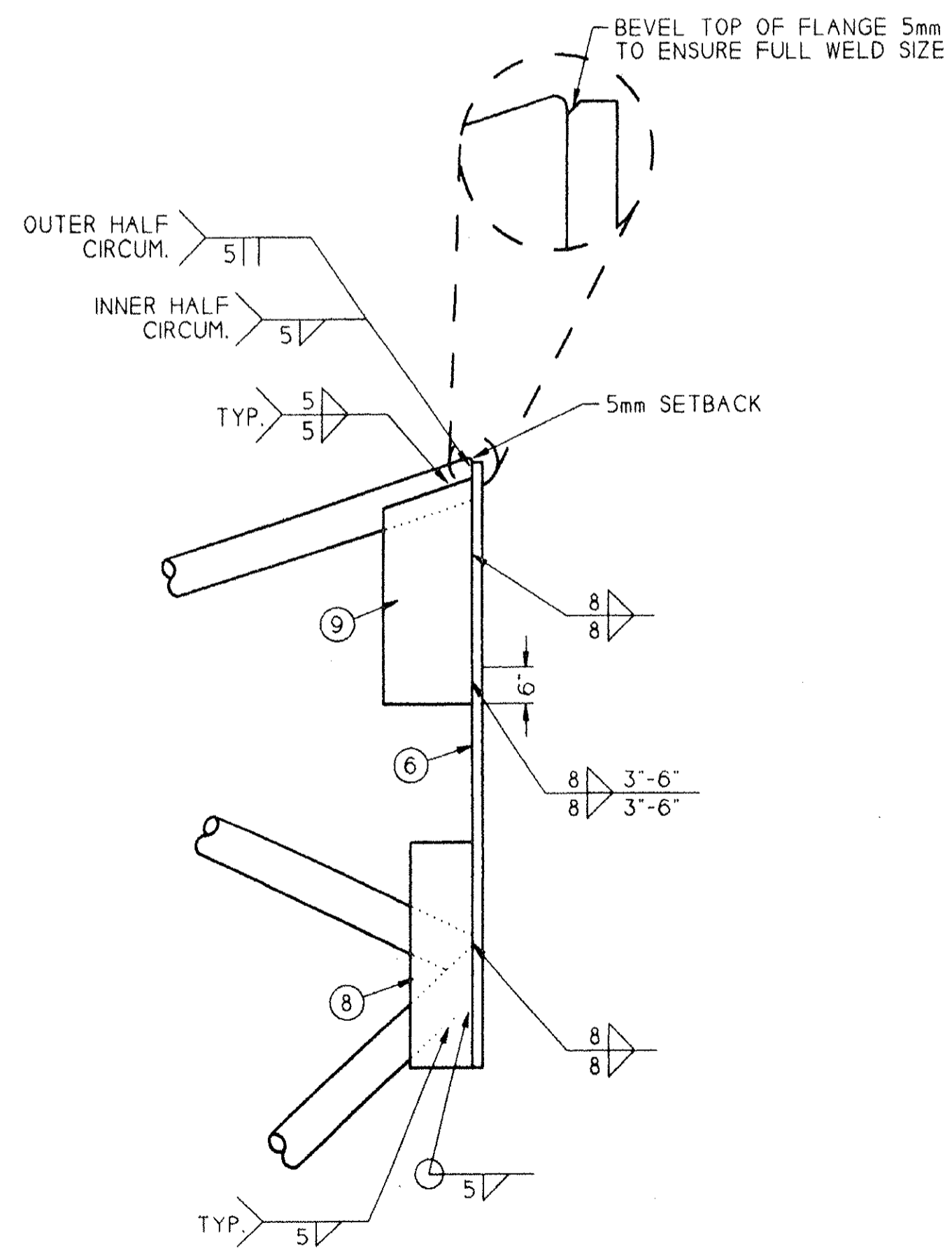


UPPER ROOF TRUSS
MID SPAN TRUSS SHOWN

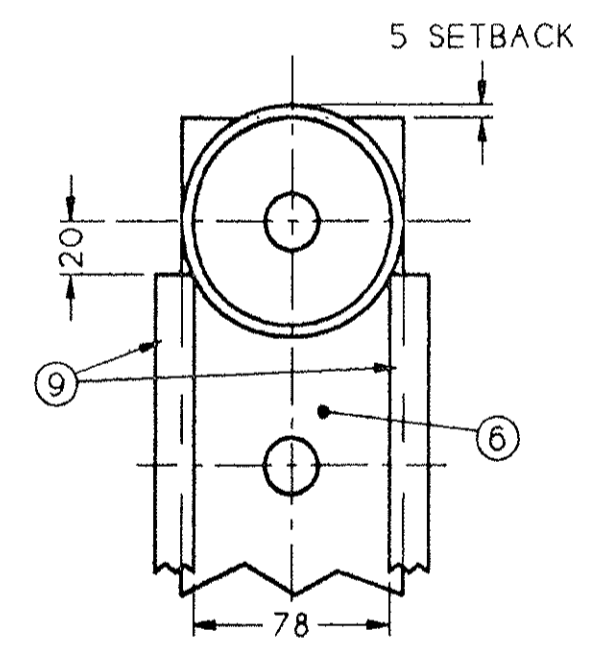
(2) 1 1/8" DIA. A325 BOLTS FOR UPPER FLANGE CONNECTIONS (TYP. ALL FLANGES)

(3) 1" DIA. A325 BOLTS FOR LOWER FLANGE CONNECTIONS (TYP. ALL FLANGES)

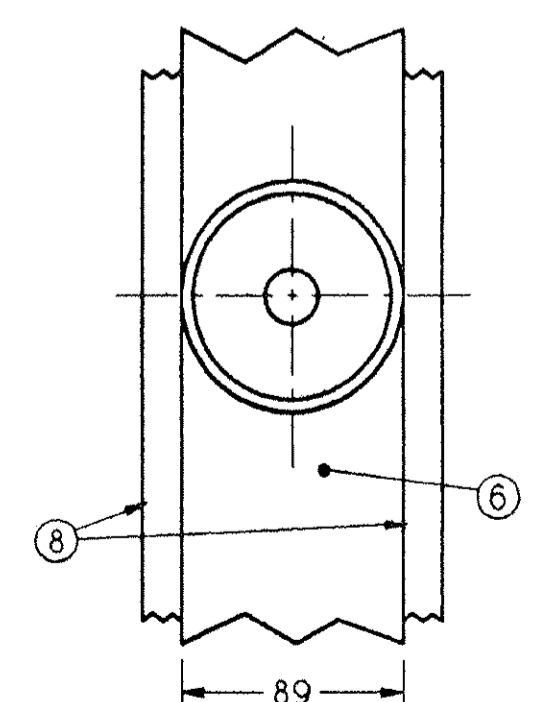
THIS END TO PEAK



FLANGE & STIFFENER WELD DETAILS

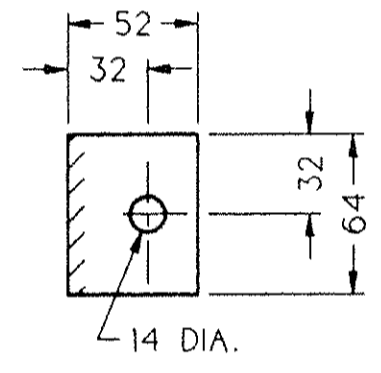


SECTION "A-A"
5x SCALE

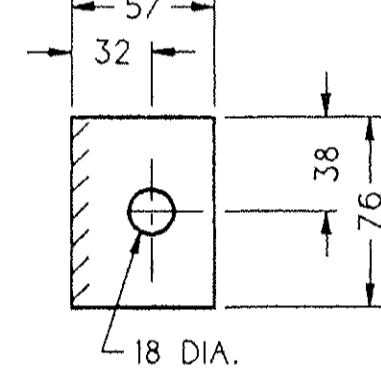


SECTION "B-B"
5x SCALE

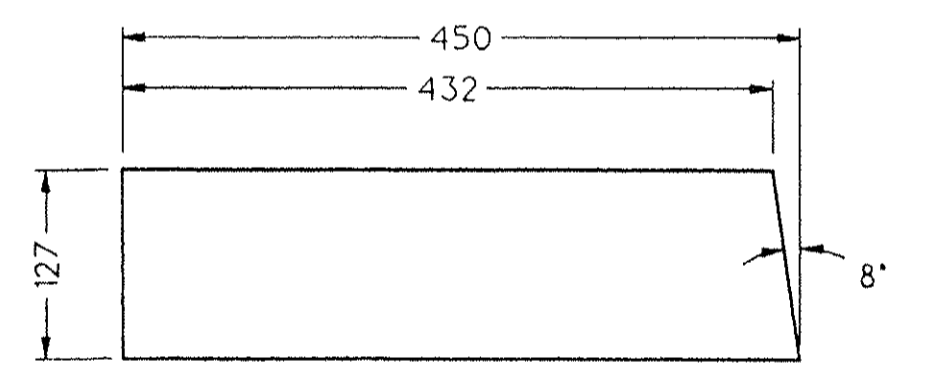
SHOP NOTE:
CHECK THAT SOCKET FOR 1" BOLT FITS BETWEEN STIFFENER WELDS.



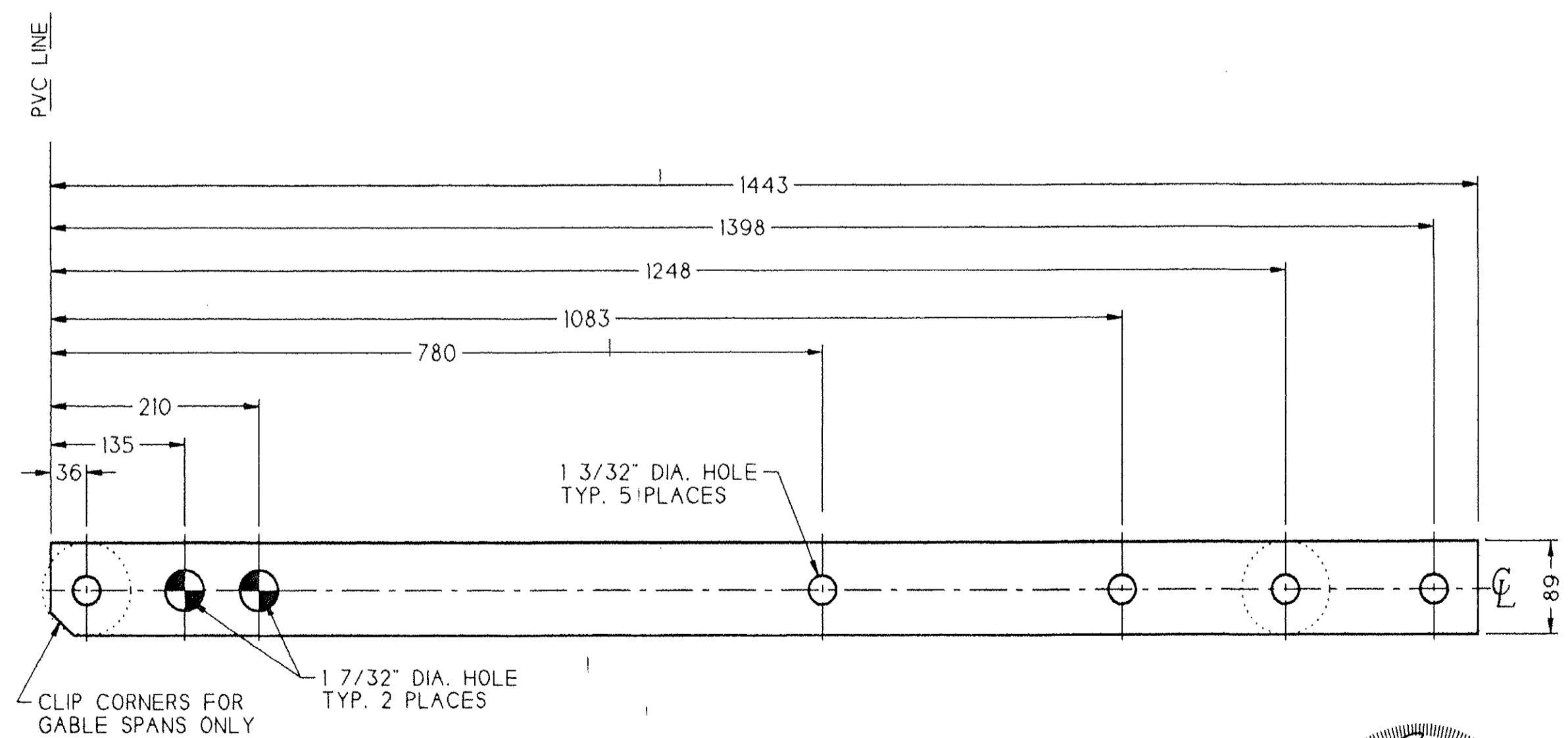
DETAIL ITEM 7
5x SCALE



DETAIL ITEM 10
5x SCALE



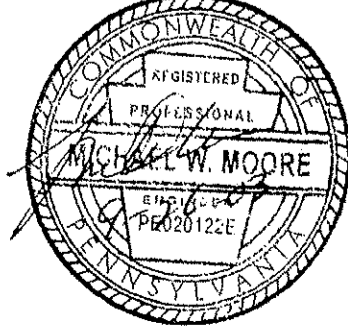
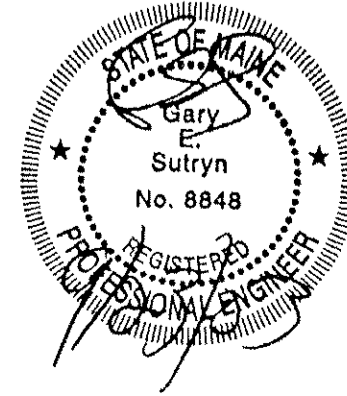
DETAIL ITEM 9
3x SCALE



DETAIL ITEM 6
3x SCALE

ITEM	QTY.	DESCRIPTION	SPEC.	MIN. YIELD
1	1	TUBE 3 1/2" DIA. x .188"	A500	50 ksi
2	1	TUBE 3 1/2" DIA. x .120"	A500	50 ksi
3	2	TUBE 2 3/8" DIA. x .120"	A500	50 ksi
4	5	TUBE 1 1/4" DIA. x 0.095"	A500	50 ksi
5	4	TUBE 2 3/8" DIA. x 0.120"	A500	50 ksi
6	2	FLAT 3 1/2" x 1" x 1443	-	42 ksi
7	5/10	FLAT 2 1/2" x 1/4" x 52	A36	36 ksi
8	4	FLAT 4" x 3/8" x 380	-	42 ksi
9	4	FLAT 5" x 5/8" x 450	-	42 ksi
10	6/12	FLAT 3" x 3/8" x 57	A36	36 ksi

- NOTES:
 1) BREAK SHARP CORNERS FOR PVC.
 2) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
 3) BILL OF MATERIAL IS FOR ONE ASSEMBLY.
 4) SEE LUG SCHEMATIC FOR ADDITIONAL LUG DETAILS.
 5) VENT ALL TUBES FOR GALVANIZING.
 6) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.



JIG #217

REV.	DESCRIPTION	DATE	APP.
A	CHANGED ITEMS #1, #5 & #9	MRB	8/13/03

RUBB
BUILDING SYSTEMS

33.5m BVE BILINK / 7m LEG
UPPER ROOF TRUSS - 24'-0" BAYS
1200 TRUSS DEPTH

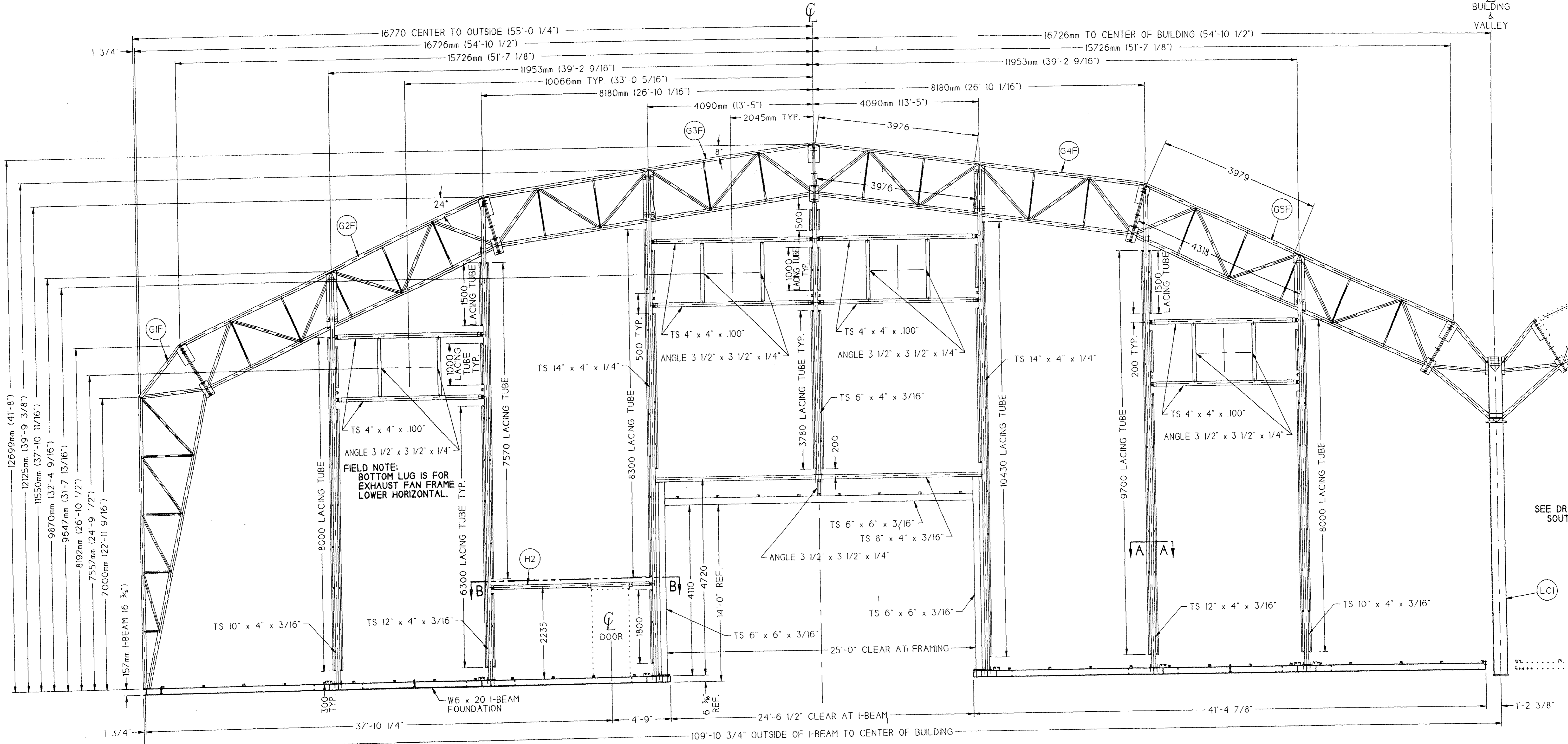
SCALE: 1 : 15

DATE: 8/13/03

JMG

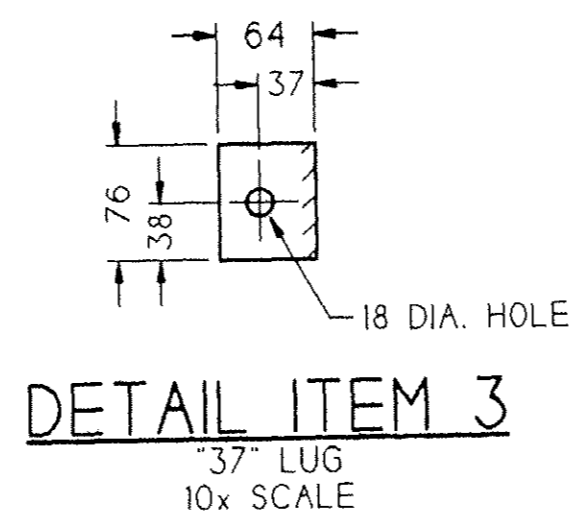
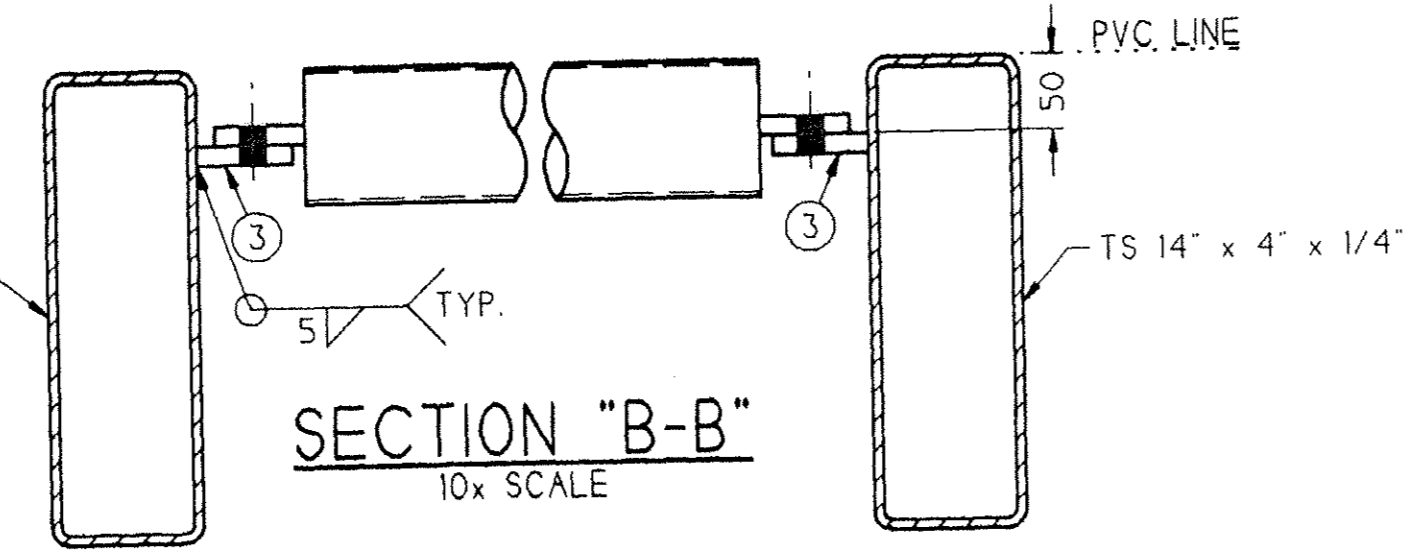
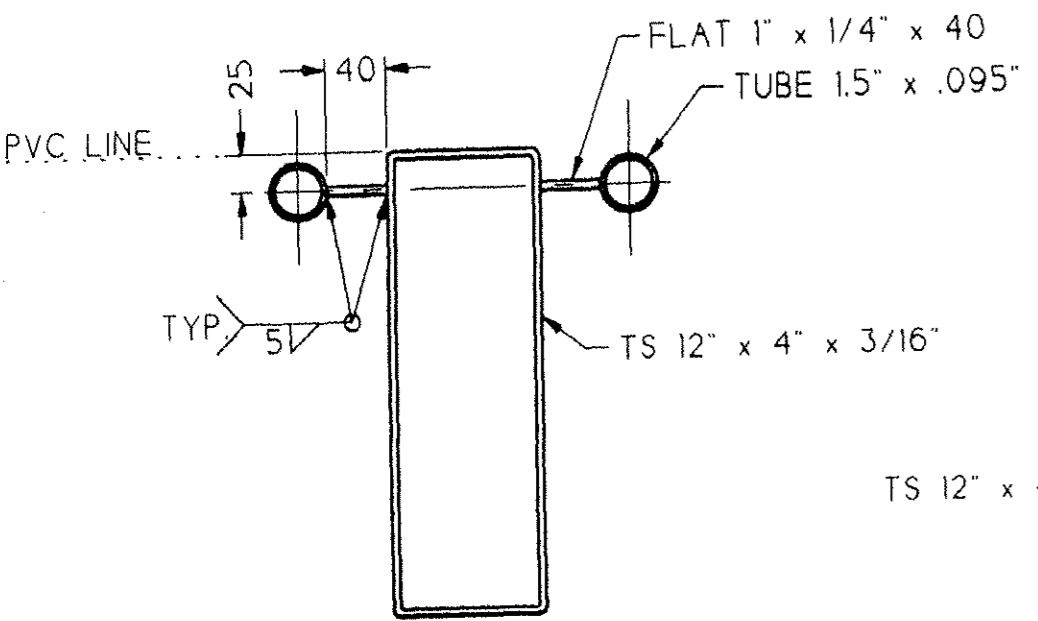
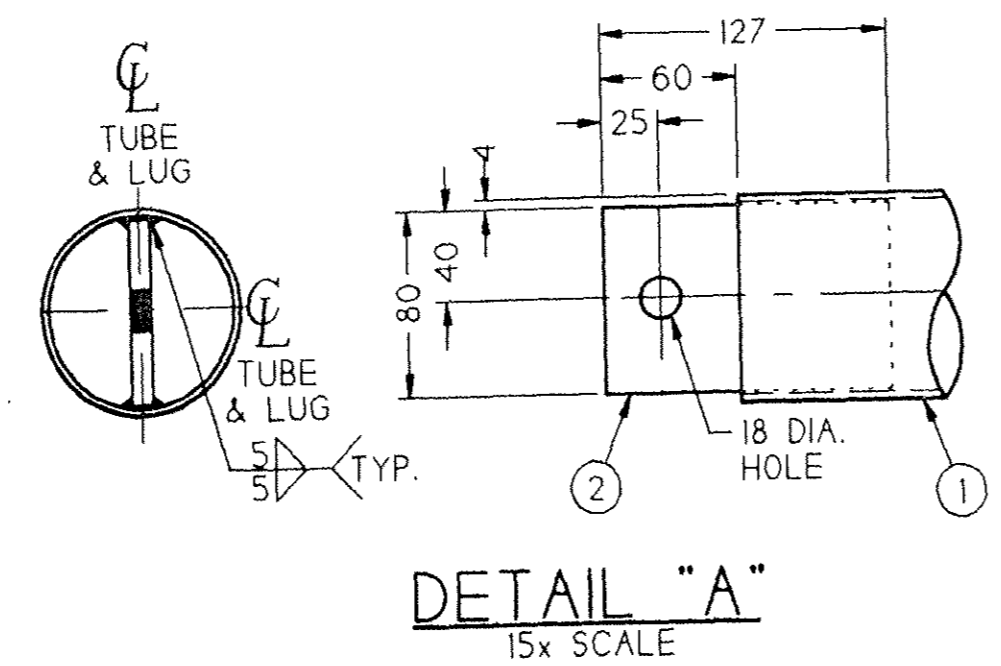
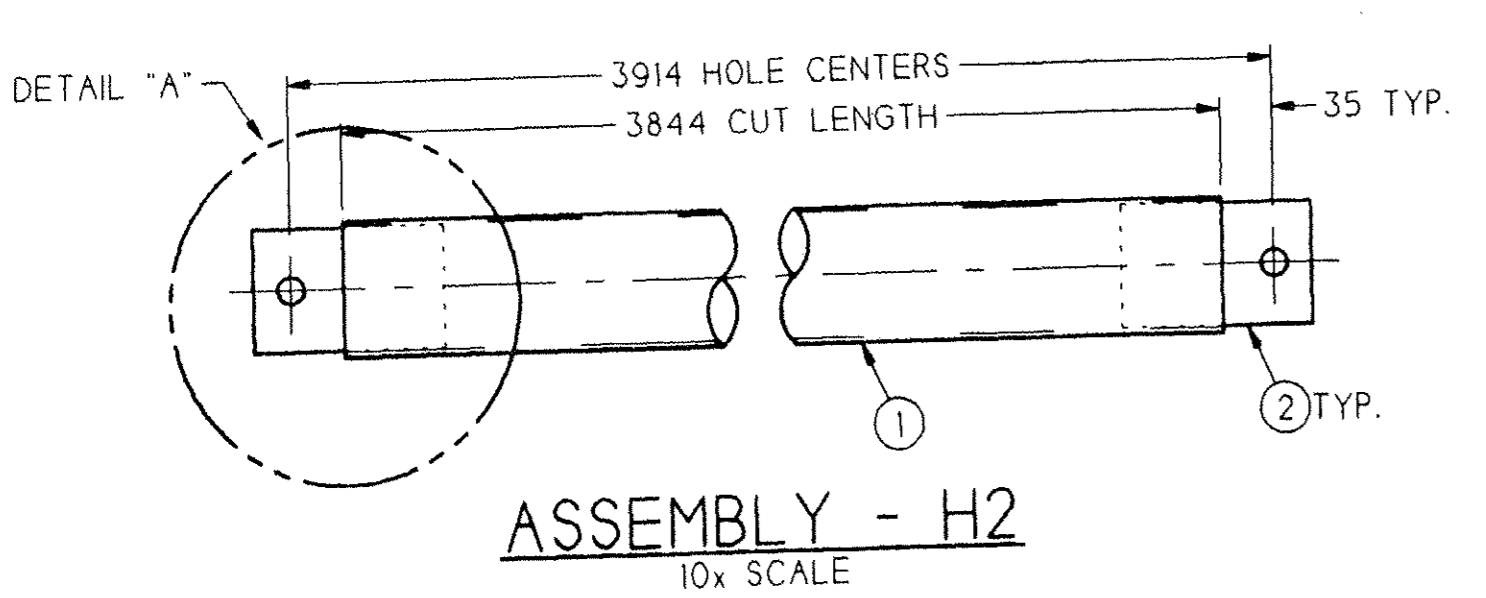
RUBB, INC. SANFORD MAINE 04073
TEL: 207-324-2877 FAX: 207-324-2347

37861



FRONT GABLE STEEL (SOUTHEAST)
VIEW ON INSIDE

SEE DRAWING 37994 FOR SOUTHWEST CORNER

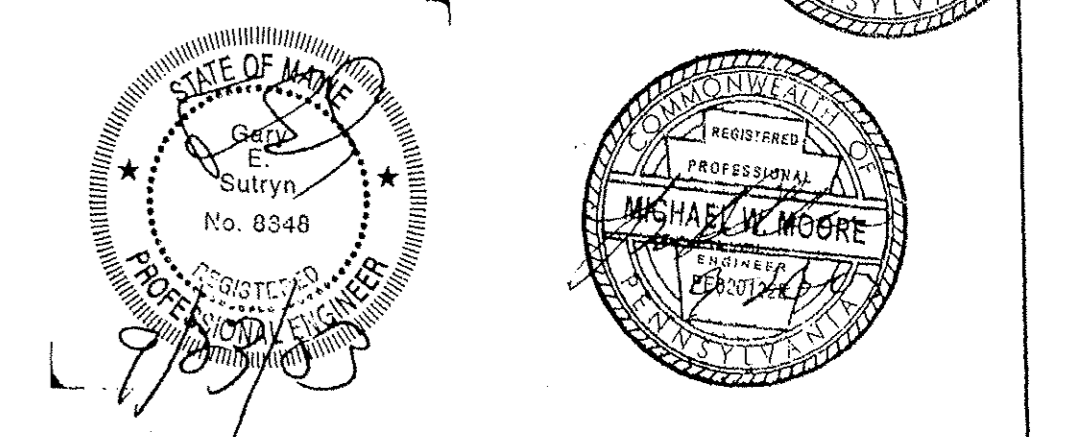


ITEM	QTY	DESCRIPTION	SPEC
1	1	TUBE 3 1/2\"/>	

ASSY	QTY	DESCRIPTION	DRAWING
G1F	1	FRONT GABLE LEG TRUSS	37856
G2F	1	FRONT GABLE LOWER ROOF TRUSS	37857
G3F	1	FRONT GABLE UPPER ROOF TRUSS	37858
G4F	1	FRONT GABLE UPPER ROOF TRUSS	37858
G5F	1	FRONT GABLE VALLEY ROOF TRUSS	37949
G6F	1	FRONT GABLE UPPER CENTER COLUMN	37879

REV	DESCRIPTION	DRAWN	APP.	DATE
H2	1	ACCESS DOOR HEADER		THIS DWG.
LC1	1	LOWER CENTER COLUMN		37905

- NOTES:
- 1.) BREAK SHARP CORNERS FOR PVC.
 - 2.) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
 - 3.) BILL OF MATERIAL IS FOR THIS QUARTER GABLE ONLY.
 - 4.) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.
 - 5.) VENT ALL TUBES AS REQUIRED FOR GALVANIZING.
 - 6.) ALL A500 MATERIAL TO BE Fy = 50 KSI MINIMUM.



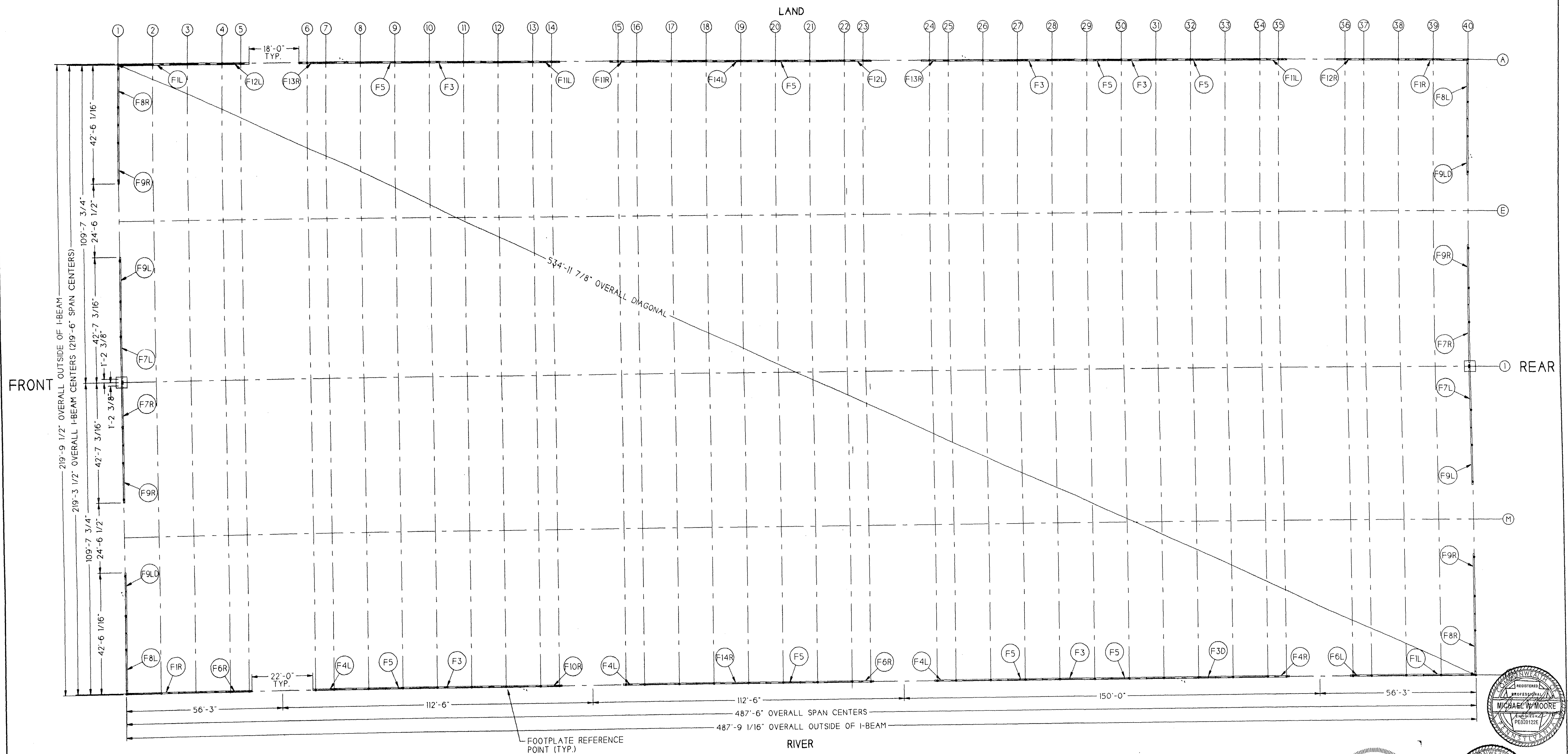
RUBB
BUILDING SYSTEMS

33.53m BVE BILINK / 7m LEG
FRONT GABLE STEEL (SOUTHEAST)
25' x 14' DOOR OPENING

DATE: 9.22.03
JOB NO: 03088
JOB NAME: JMG

RUBB, INC. SANFORD MAINE 04073
TEL: 207-324-2877 FAX 207-324-2347

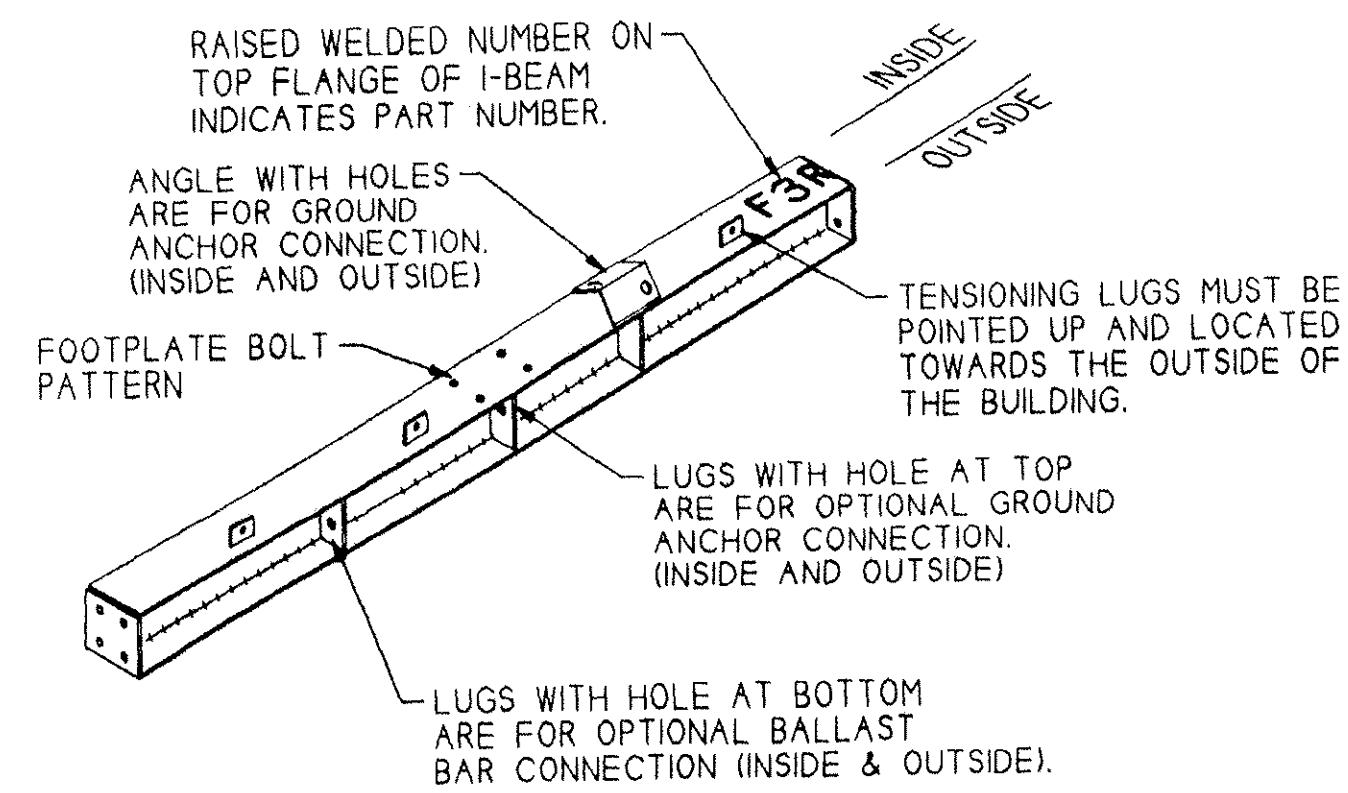
37862



FRONT

REAR

PLAN VIEW



I-BEAM ORIENTATION DETAIL
NOT TO SCALE

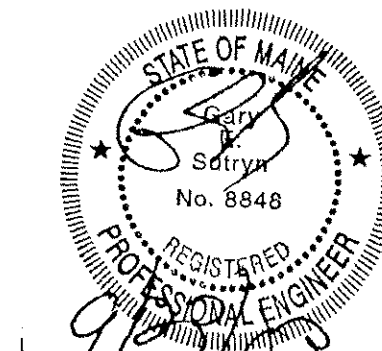
CORRECT
SQUARE, CONSISTENT
WIDTH AND STRAIGHT

INCORRECT
SQUARE, BUT WIDTH
NOT CONSISTENT

INCORRECT
NOT SQUARE

INCORRECT
SQUARE AND CONSISTENT
WIDTH BUT SIDES NOT STRAIGHT

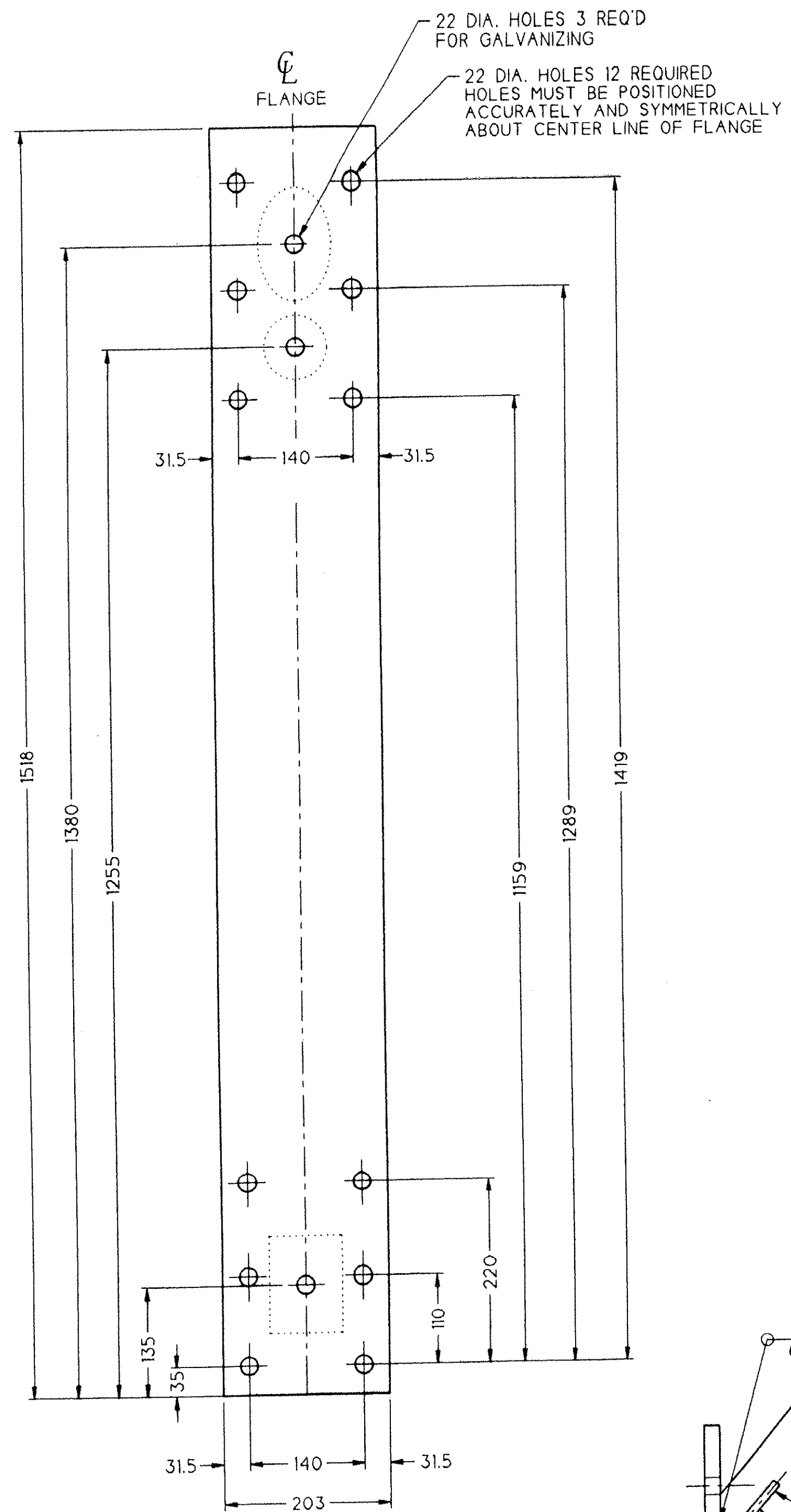
ITEM	QTY	DESCRIPTION	DRAWING
F1	2R/2L	18'-10 1/2" CORNER SECTION	37875
F2	-	25'-0" SIDE SECTION	37877
F3	5	25'-0" SIDE SECTION WITH A. DOOR	37877
F3D	1	25'-0" SIDE SECTION • FRAMED OPENING	37887
F4	1R/3L	26'-6" SIDE SECTION • FRAMED OPENING	37888
F5	8	12'-6" SIDE SECTION	37888
F6	2R/1L	26'-6" SIDE SECTION • FRAMED OPENING w/ CABLE LUG	37889
F7	2R/2L	20'-7 3/4" CENTER GABLE SECTION	37890
F8	2R/2L	20'-6 11/16" GABLE SECTION	37891
F9	4R/2L	20'-9 1/16" GABLE SECTION w/ FRAMED OPENING	37892
F9LD	2	20'-9 1/16" GABLE SECTION w/ F. OPENING & A. DOOR	37892
F10	1R	26'-6" SIDE SECTION • FRAMED OPENING w/ A. DOOR	37893
F11	1R/2L	28'-6" SIDE SECTION • FRAMED OPENING	37906
F12	1R/2L	28'-6" SIDE SECTION • FRAMED OPENING w/ CABLE LUG	37907
F13	2R	28'-6" SIDE SECTION • FRAMED OPENING w/ A. DOOR	37908
F14	1R/1L	25'-0" SIDE SECTION WITH CABLE LUG	37876



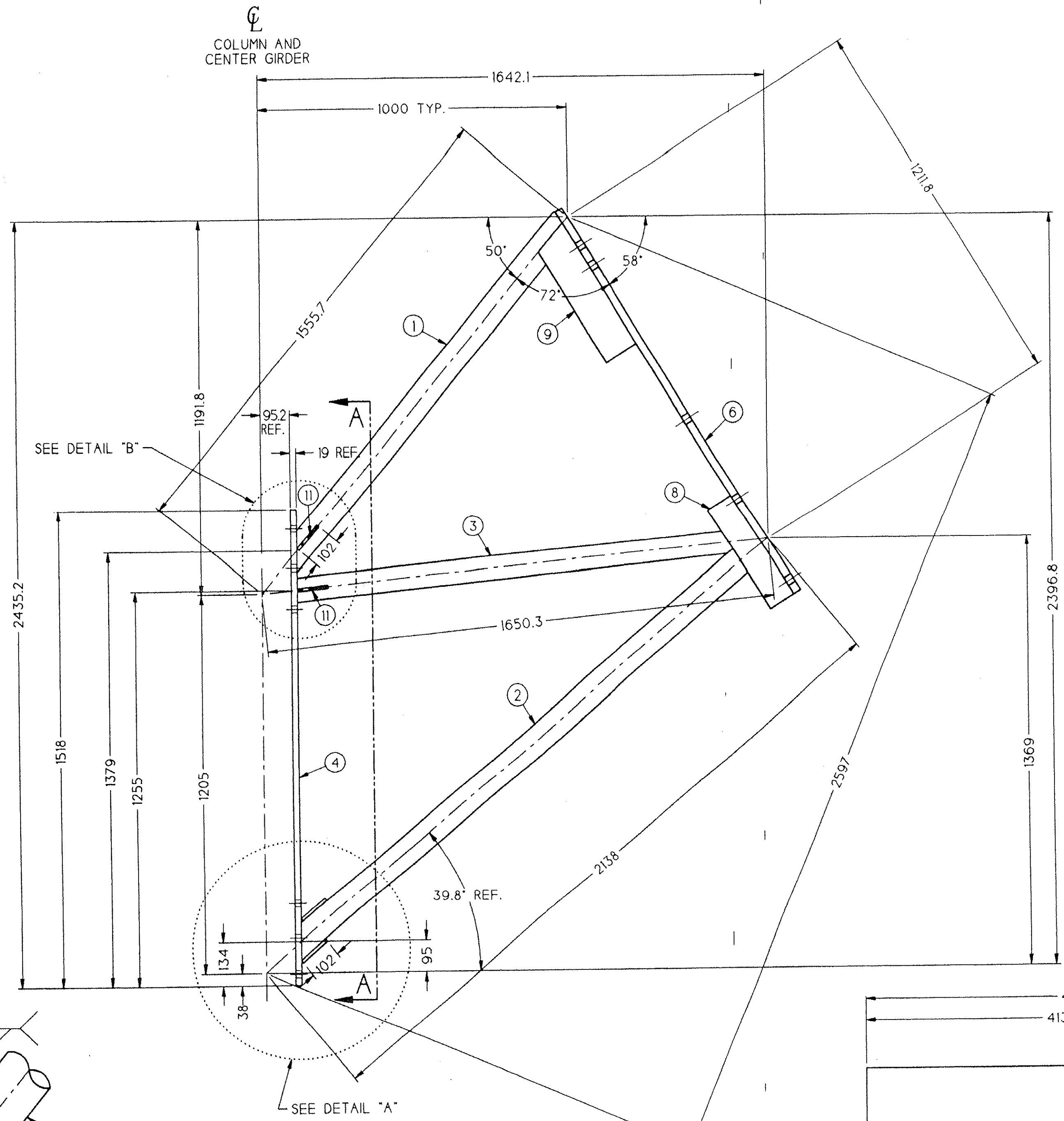
SEE DRAWING 37894 FOR GROUND ANCHOR LAYOUT.

REV.	DESCRIPTION	DRAWN	APP.	DATE
C	REVISED DOOR LOCATIONS.	MJG	ML	8-27-03
B	CORRECTED ACCESS DOOR LOCATIONS AND QUANTITIES IN BILL OF MATERIAL.	MJG	JAB	8-27-03
A	REVISED LENGTH OF ASSY F7.	MJG	JAB	8-19-03

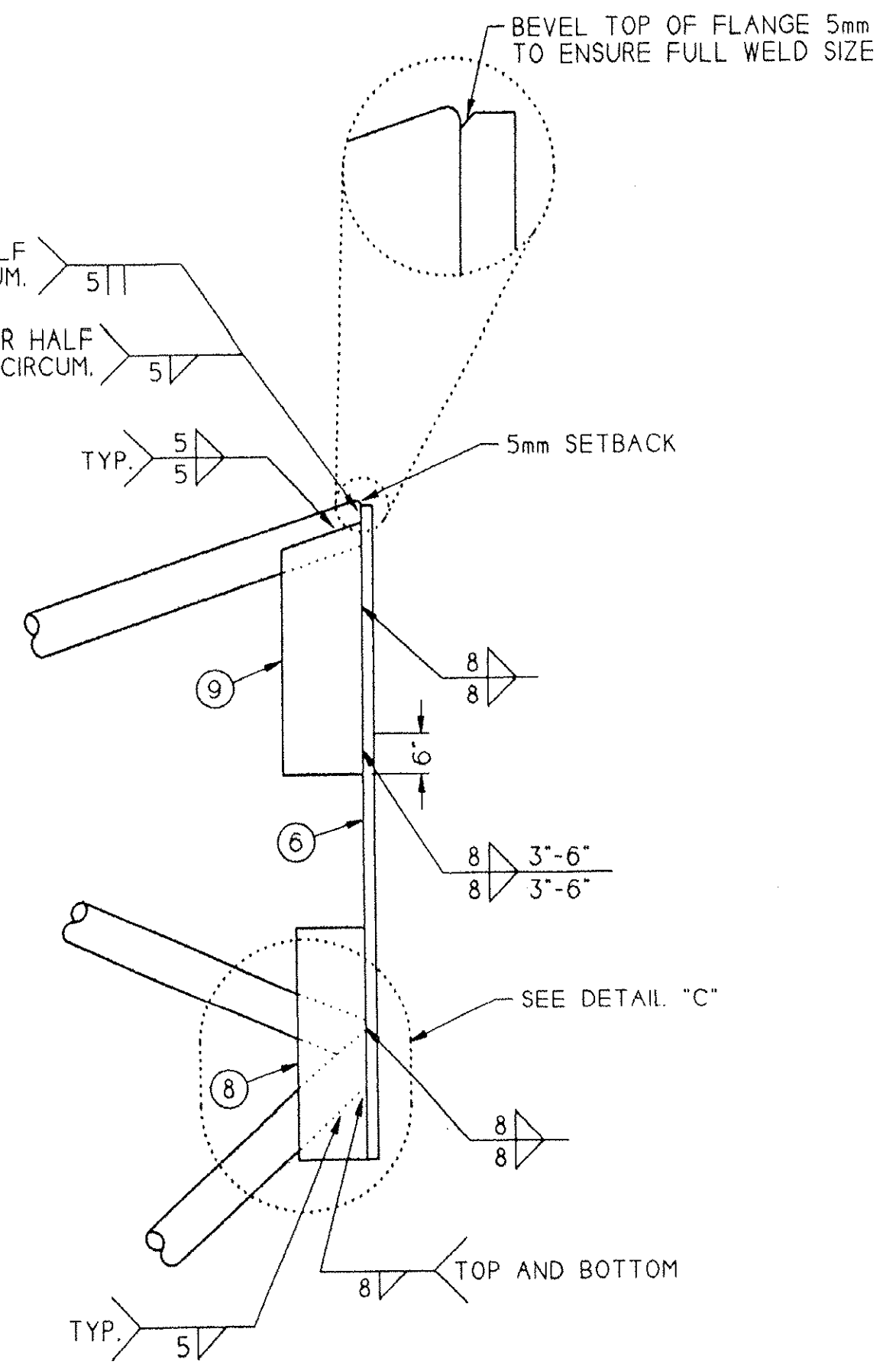
We Cover The World RUBB BUILDING SYSTEMS	TITLE 33.5m BVE BILINK / 7m LEG I-BEAM FOUNDATION LAYOUT
DRAWN MJG 8-10-03	SCALE 1 : 200
APP. JAB 8-15-03	JOB # 03088
DATE DATE	JOB NAME JMG
RUBB, INC. SANFORD MAINE 04073 TEL: 207-324-2877 FAX 207-324-2347	
DRAWN NO. 37867	



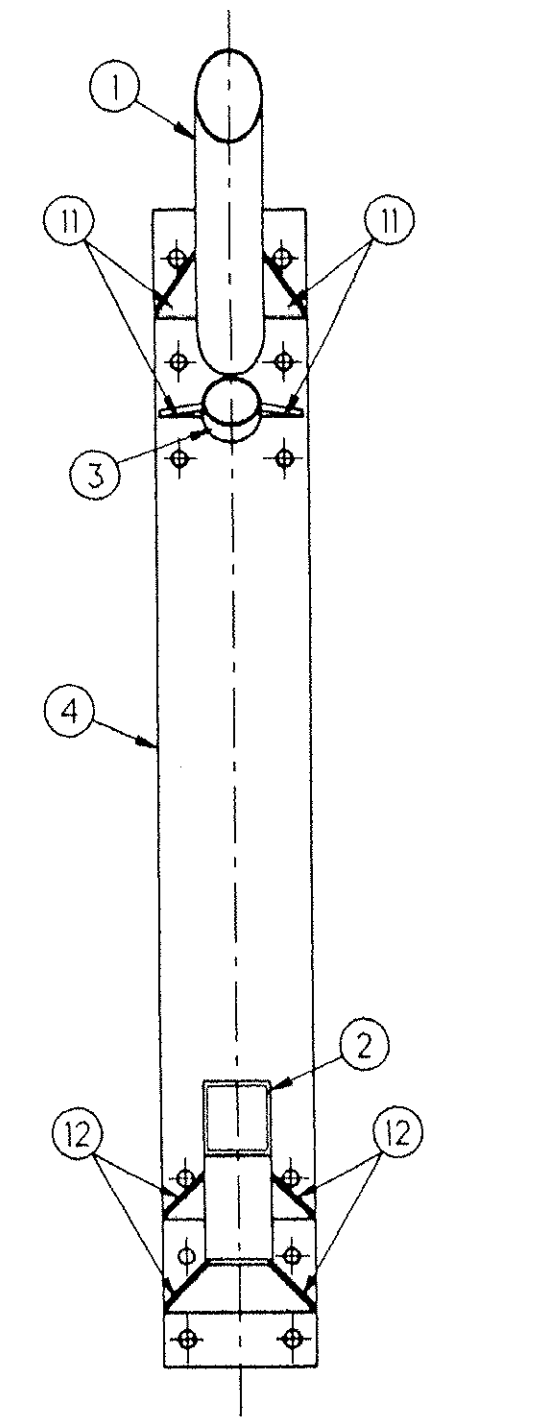
DETAIL ITEM #4
2X SCALE



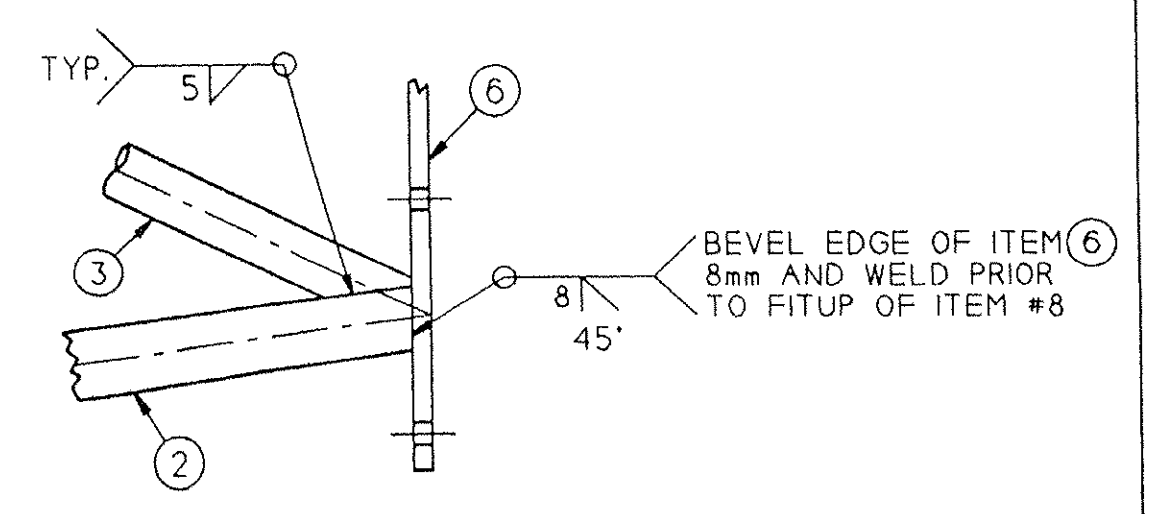
SINGLE YOKE ASSEMBLY
MID ASSEMBLY FOR 12'-6" BAYS SHOWN
SEE LUG SCHEMATIC FOR ADDITIONAL LUGS NOT SHOWN



FLANGE & STIFFENER WELD DETAILS
NOT TO SCALE

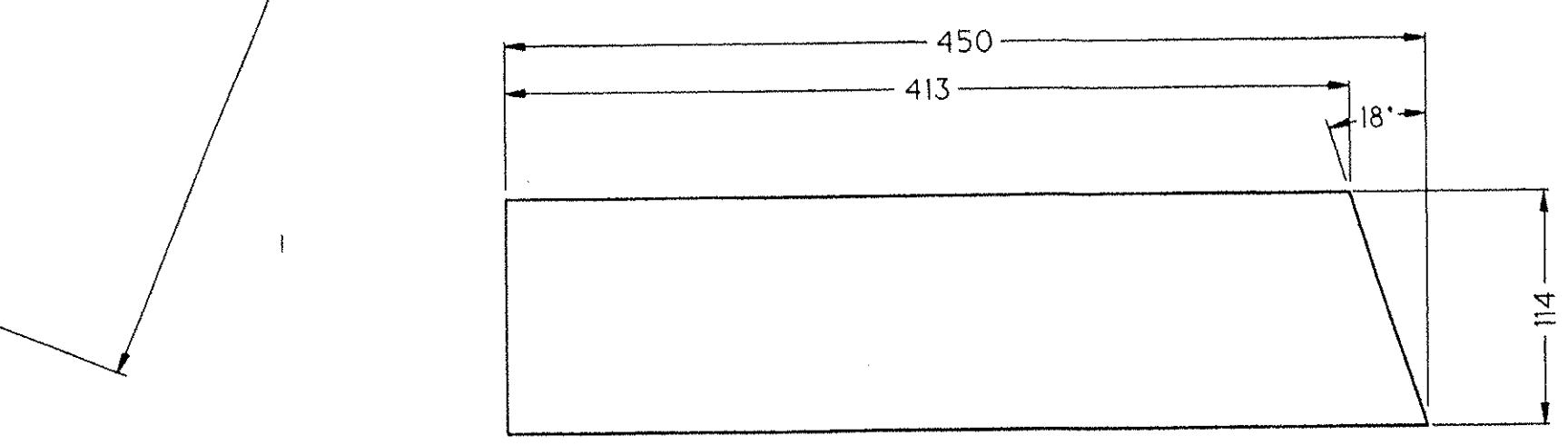


SECTION "A-A"

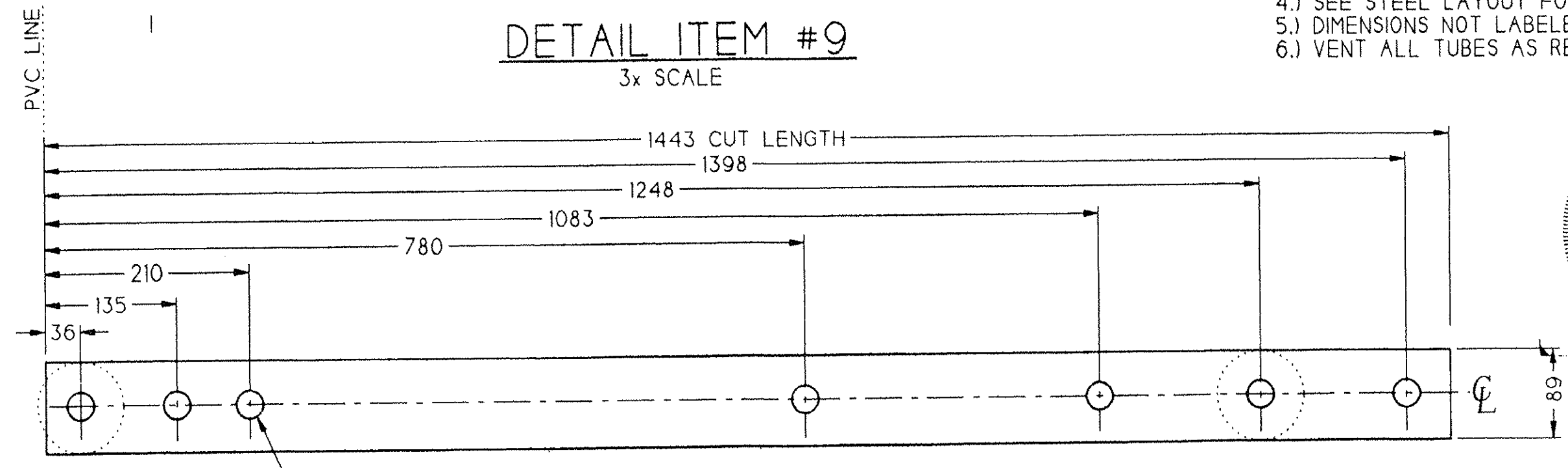


DETAIL "C"

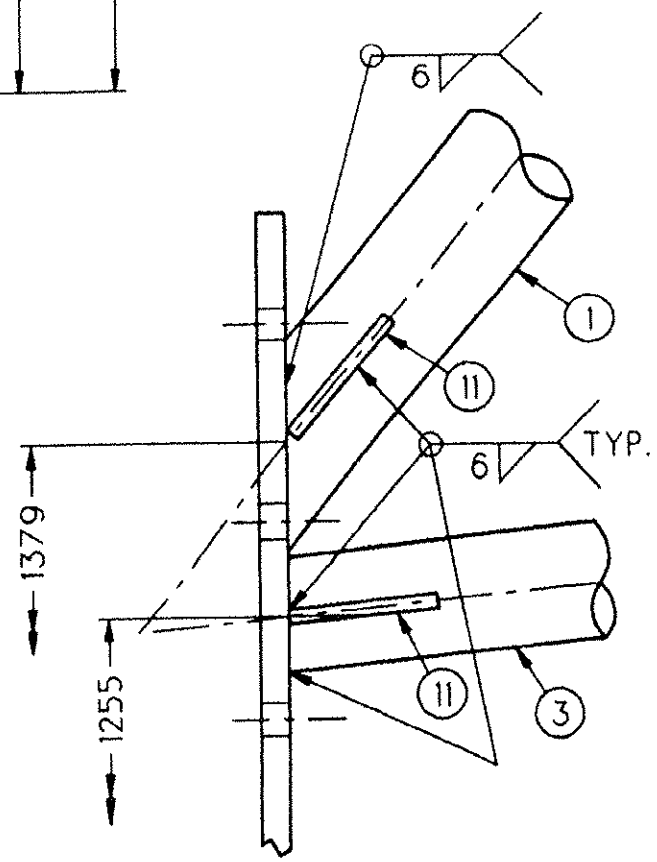
- NOTES:
- 1) BREAK SHARP CORNERS FOR PVC.
 - 2) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
 - 3) BILL OF MATERIAL IS FOR ONE ASSEMBLY.
 - 4) SEE STEEL LAYOUT FOR LOCATION.
 - 5) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.
 - 6) VENT ALL TUBES AS REQUIRED FOR GALVANIZING.



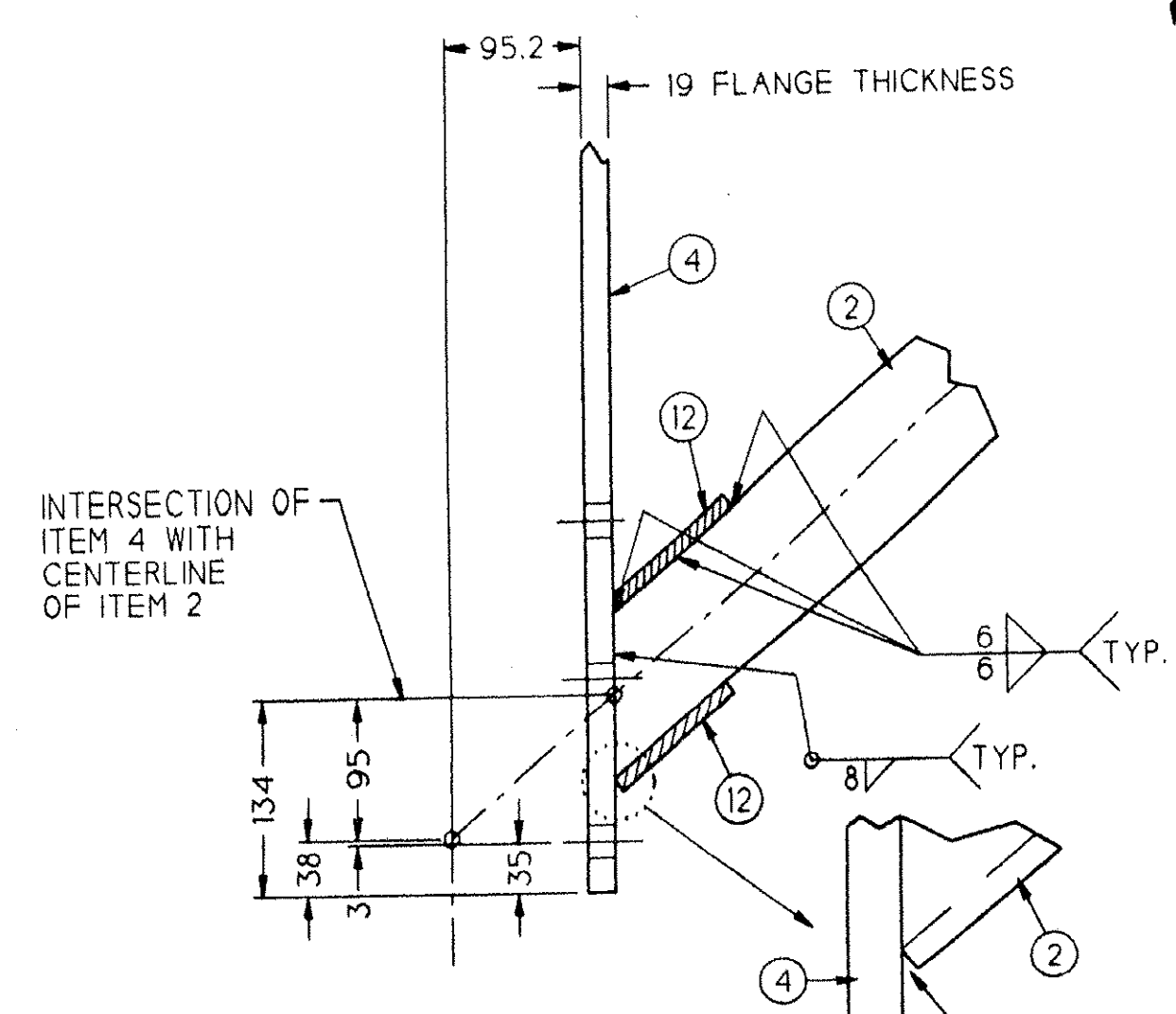
DETAIL ITEM #9
3x SCALE



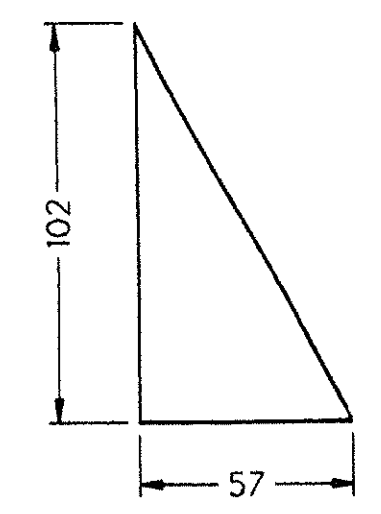
DETAIL ITEM #6
2x SCALE



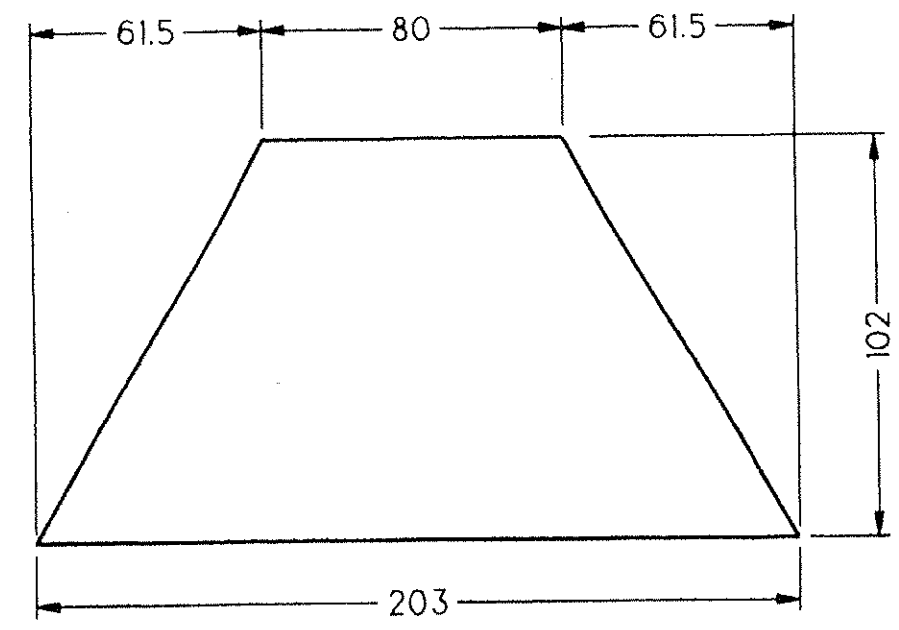
DETAIL "B"
2X SCALE



DETAIL "A"
2X SCALE

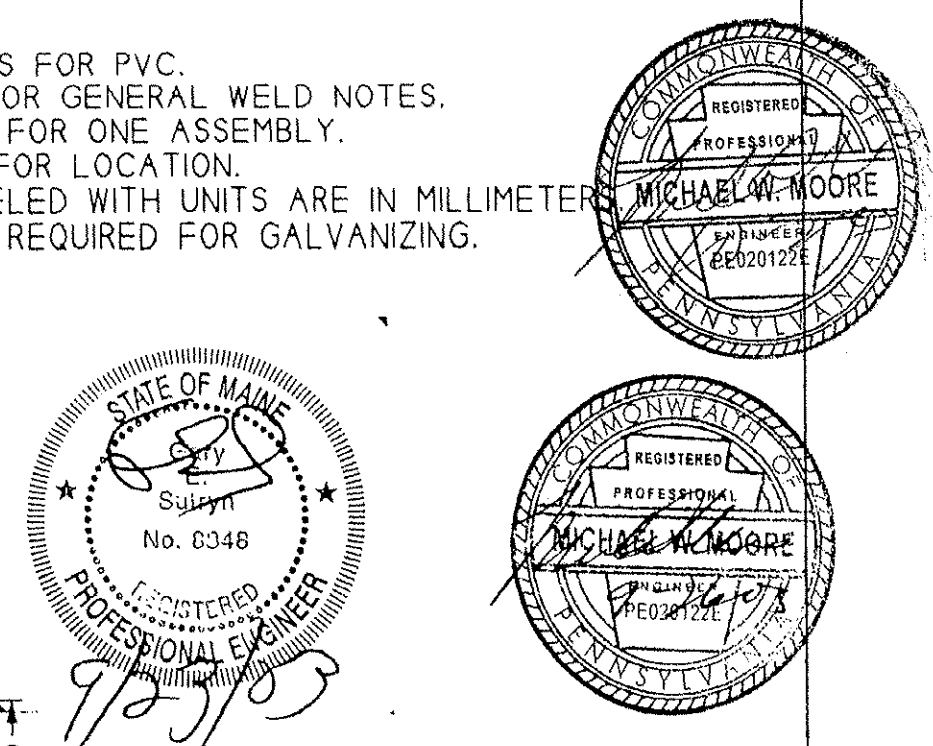


DETAIL ITEM #11
5x SCALE



DETAIL ITEM #12
5x SCALE

ITEM	QTY	DESCRIPTION	SPEC.	MIN. YIELD
1	1	TUBE 3 1/2" DIA. x 0.188"	A500	50 ksi
2	1	TS 3 1/2" x 3 1/2" x 3/8"	A500	50 ksi
3	1	TUBE 3" DIA. x 0.188"	A500	50 ksi
4	1	FLAT 8" x 3/4" x 1518	A36	36 ksi
5	-	-	-	-
6	1	FLAT 3 1/2" x 1" x 1443	-	42 ksi
7	-	-	-	-
8	2	FLAT 3 1/2" x 3/8" x 380	-	42 ksi
9	2	FLAT 4 1/2" x 1/2" x 450	-	42 ksi
10	-	-	-	-
11	4	FLAT 4" x 3/8" x 57	A36	36 ksi
12	2	FLAT 4" x 3/8" x 203	A36	36 ksi



REV.	DESCRIPTION	DRAWN	APP.	DATE
A	REVISED FOR FABRICATION	MRB		

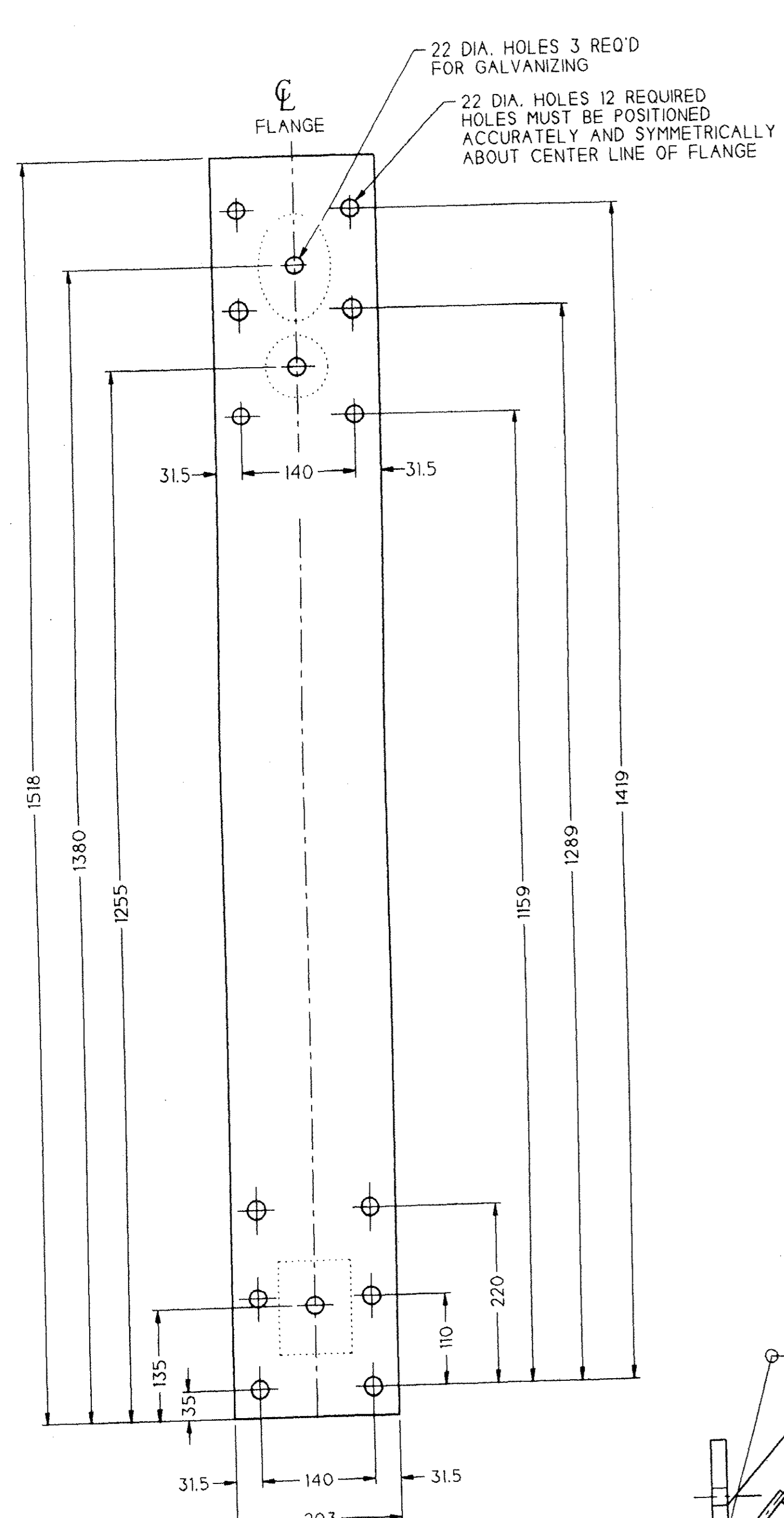
We Cover The World
RUBB
BUILDING SYSTEMS

33.5m BVE BILINK / 7m LEG
SINGLE YOKE ASSEMBLY - 12'-6" BAYS

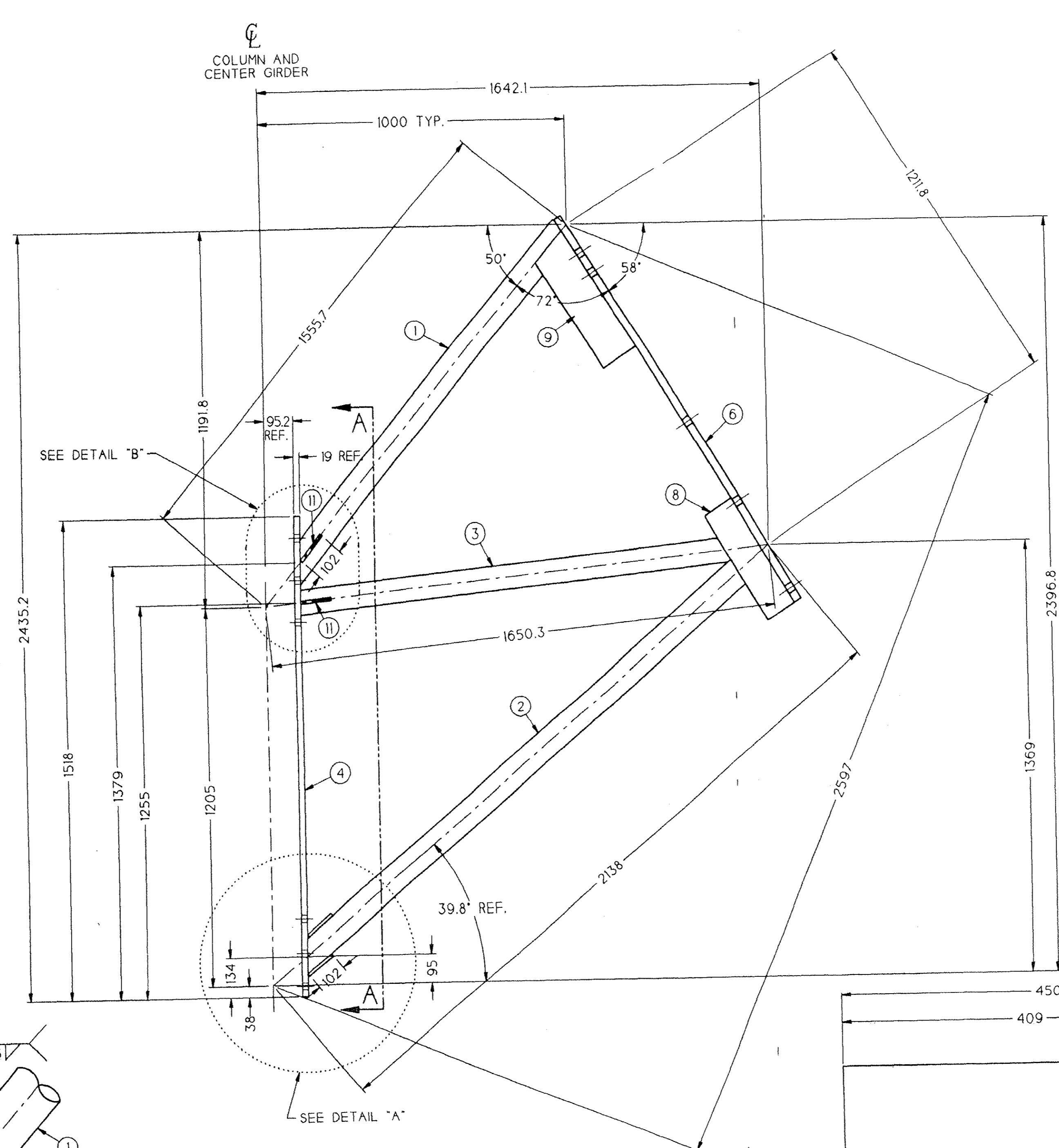
DATE: AR 8-11-03
APP: GES 8-16-03
DATE: 8-16-03

RUBB, INC. SANFORD MAINE 04073
TEL: 207-324-2877 FAX 207-324-2347

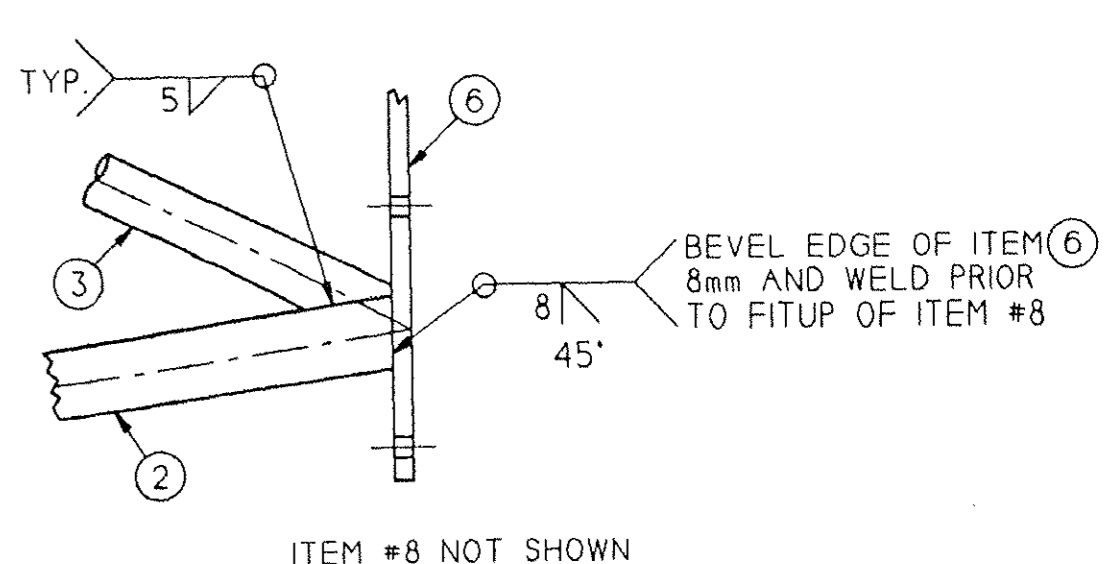
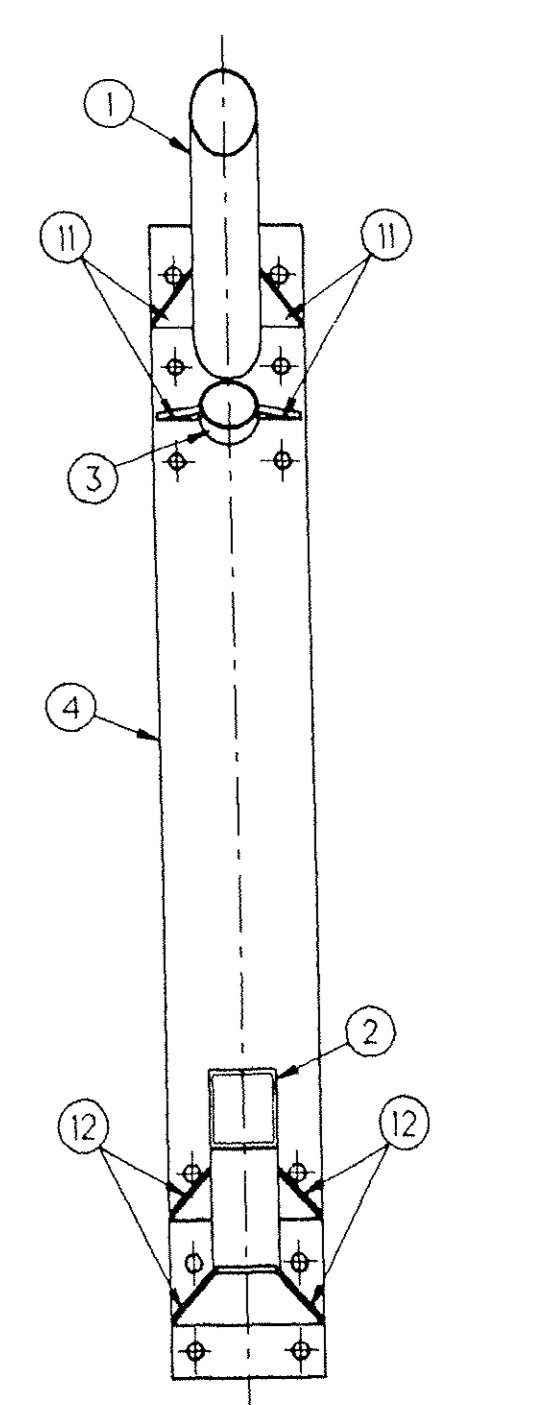
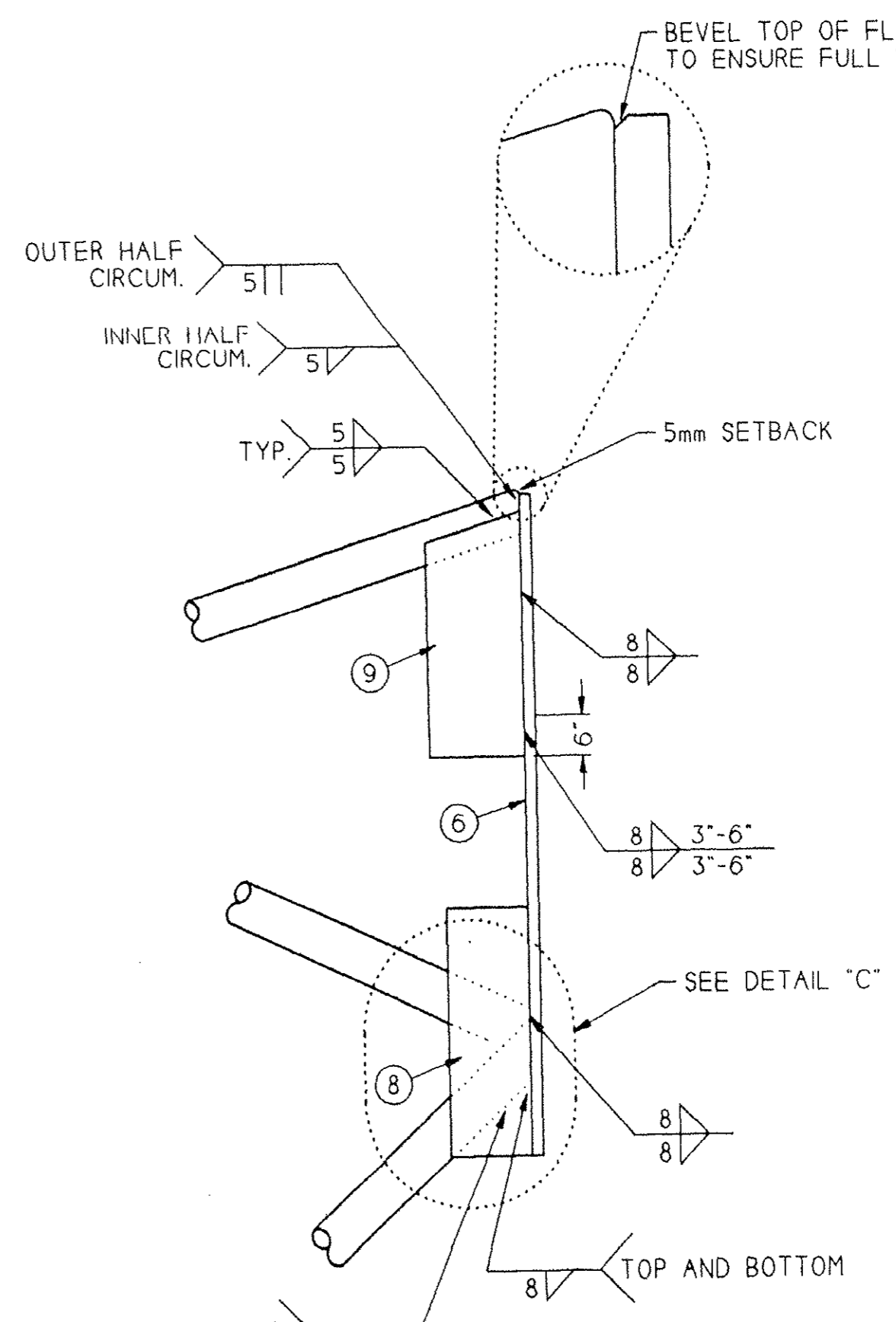
37878



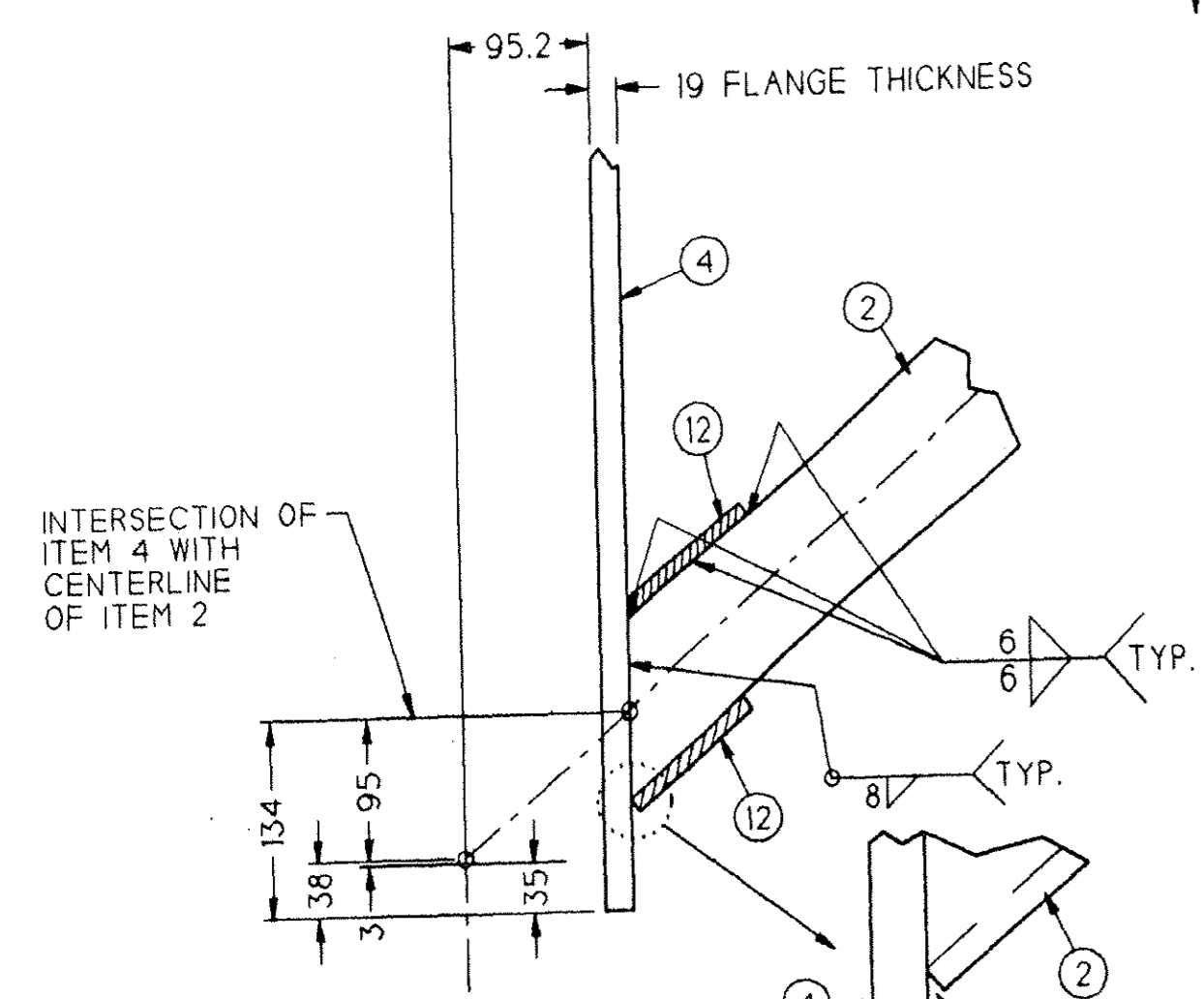
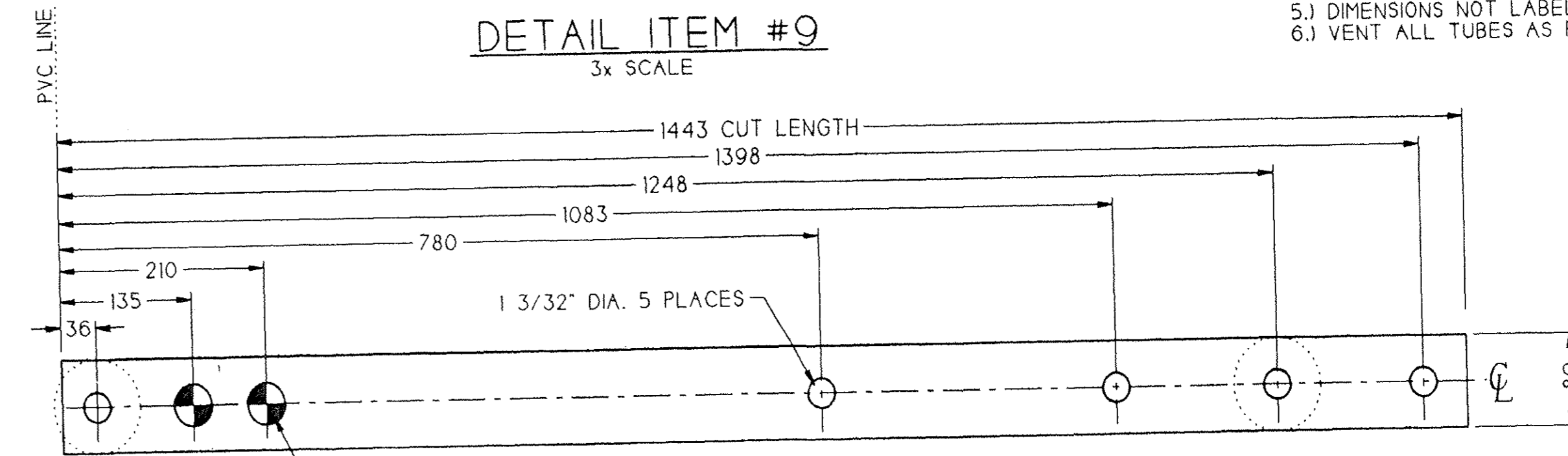
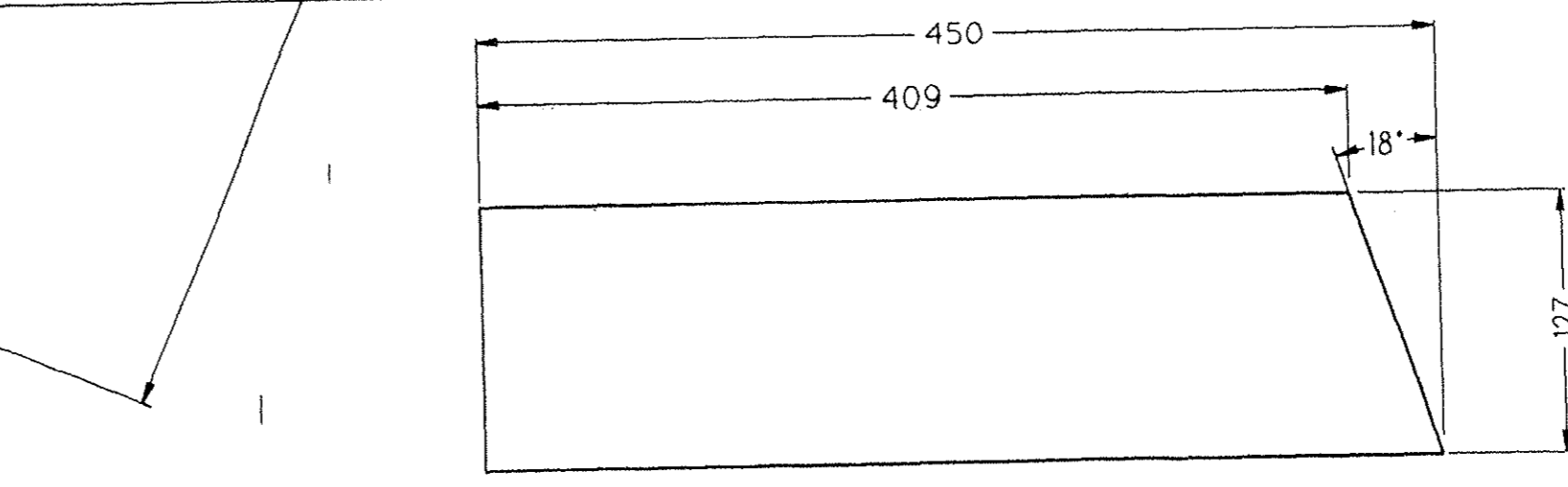
DETAIL ITEM #4
2X SCALE



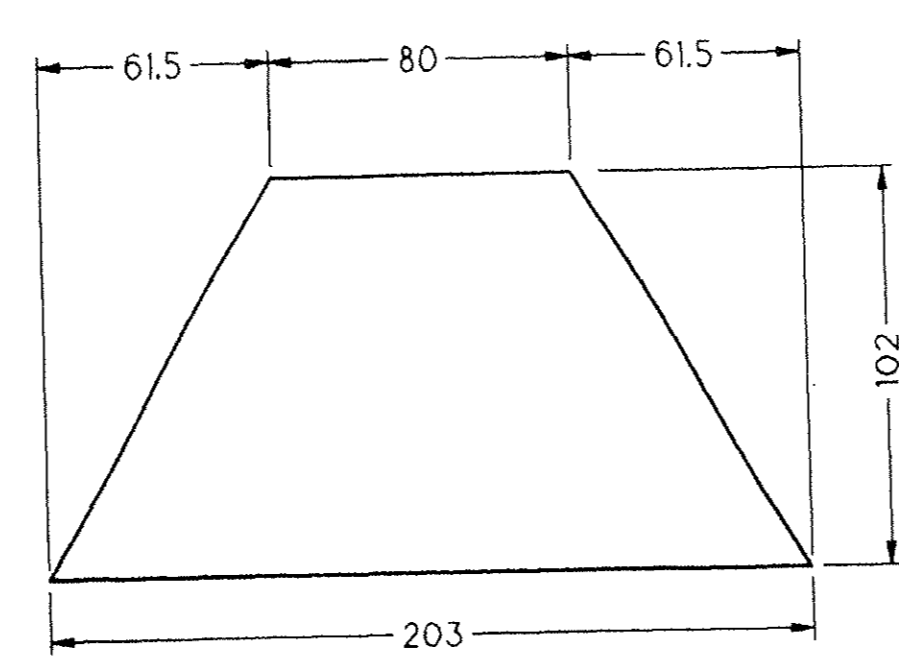
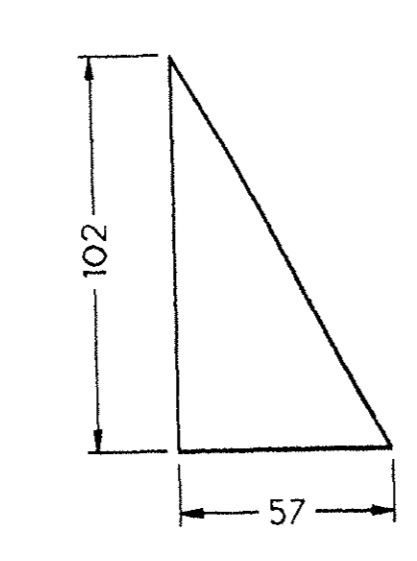
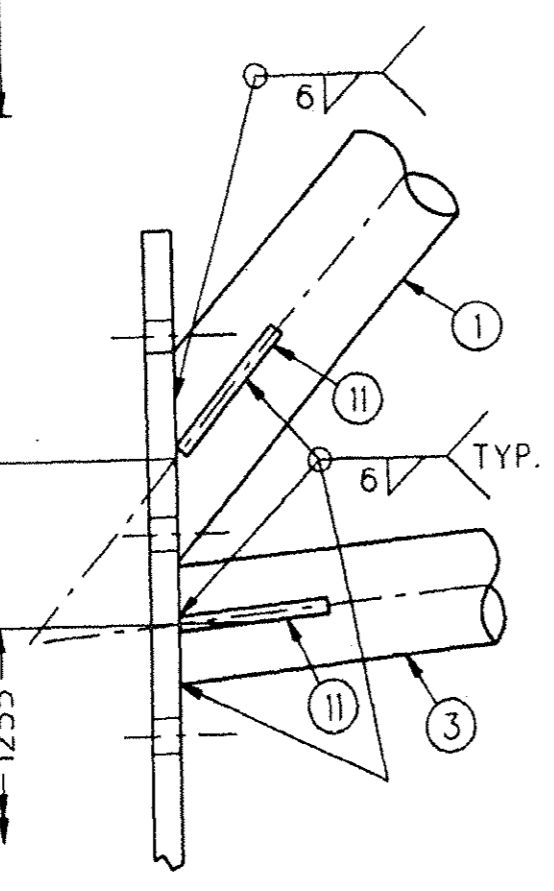
SINGLE YOKE ASSEMBLY
MID ASSEMBLY FOR 12'-6" BAYS SHOWN
SEE LUG SCHEMATIC FOR ADDITIONAL LUGS NOT SHOWN



- NOTES:
- 1) BREAK SHARP CORNERS FOR PVC.
 - 2) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
 - 3) BILL OF MATERIAL IS FOR ONE ASSEMBLY.
 - 4) SEE STEEL LAYOUT FOR LOCATION.
 - 5) DIMENSIONS NOT LABELED WITH UNITS ARE IN MIL.
 - 6) VENT ALL TUBES AS REQUIRED FOR GALVANIZING.



NOTE: ITEM 12 NOT SHOWN FOR CLARITY



ITEM	QTY.	DESCRIPTION	SPEC.	MIN. YIELD
1	1	TUBE 3 1/2" DIA. x 0.188"	A500	50 ksi
2	1	TS 3 1/2" x 3 1/2" x 3/8"	A500	50 ksi
3	1	TUBE 3" DIA. x 0.188"	A500	50 ksi
4	1	FLAT 8" x 3/4" x 1518	A36	36 ksi
5	-	-	-	-
6	1	FLAT 3 1/2" x 1" x 1443	-	42 ksi
7	-	-	-	-
8	2	FLAT 4" x 3/8" x 380	-	42 ksi
9	2	FLAT 5" x 5/8" x 450	-	42 ksi
10	-	-	-	-
11	4	FLAT 4" x 3/8" x 57	A36	36 ksi
12	2	FLAT 4" x 3/8" x 203	A36	36 ksi

REV.	DESCRIPTION	DATE	APP.
A	REVISED FOR FABRICATION		MRB

We Cover The World
RUBB
 BUILDING SYSTEMS

33.5m BVE BILINK / 7m LEG
 SINGLE YOKE ASSEMBLY - 24'-0" BAYS

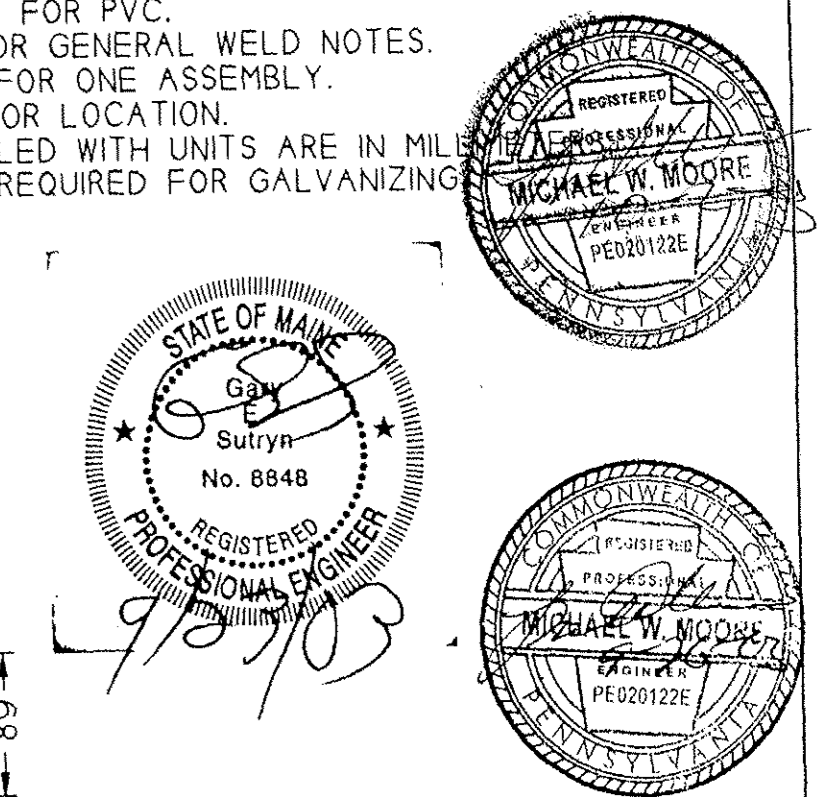
DRAWN: AR 8-13-03
 APP: GES 8-16-03
 DATE:

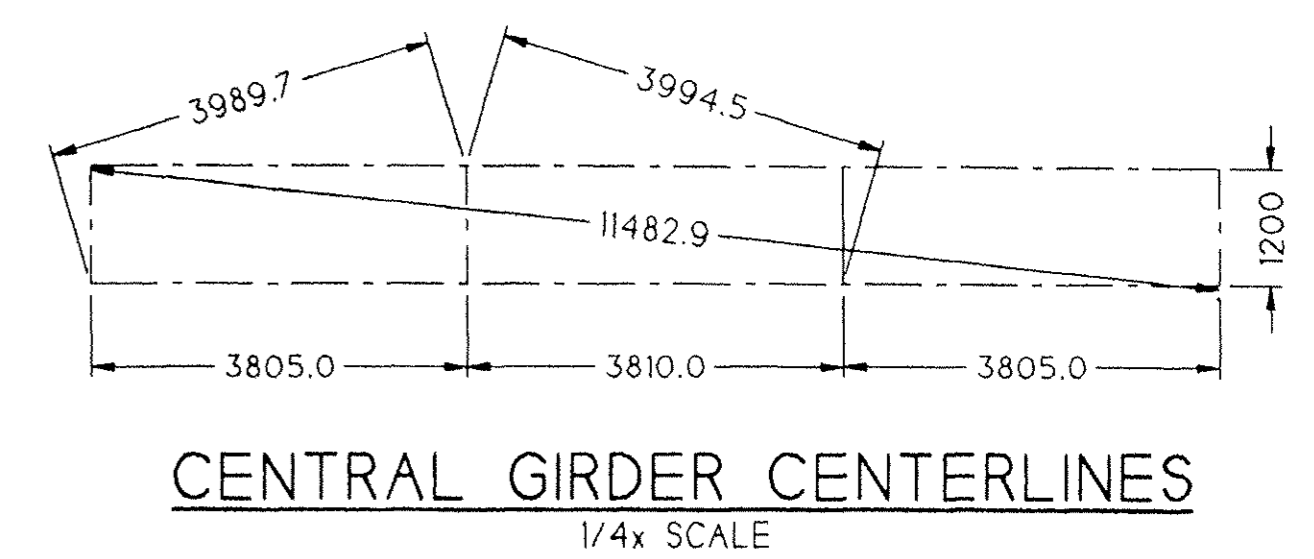
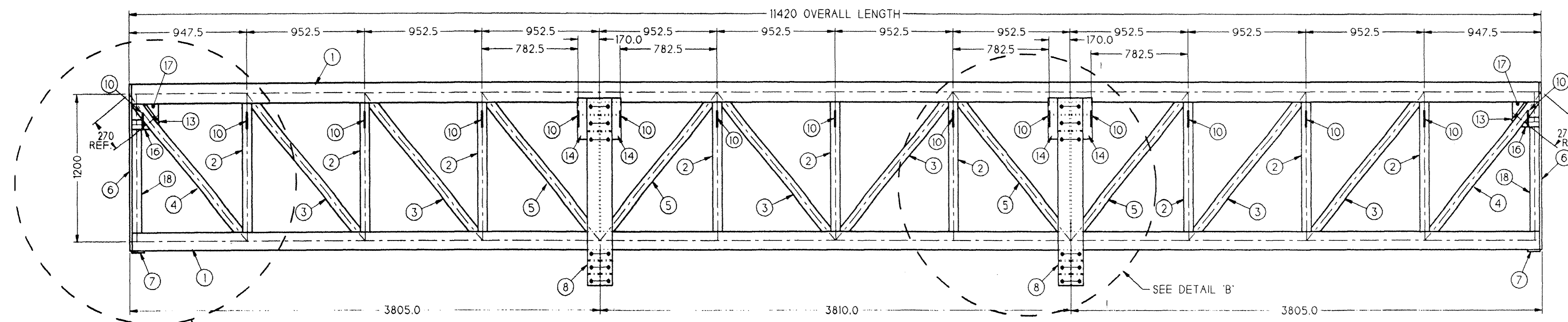
SCALE: 1:10
 JOB #: 03088
 JOB NAME: JMG

RUBB, INC. SANFORD MAINE 04073
 TEL: 207-324-2877 FAX 207-324-2347

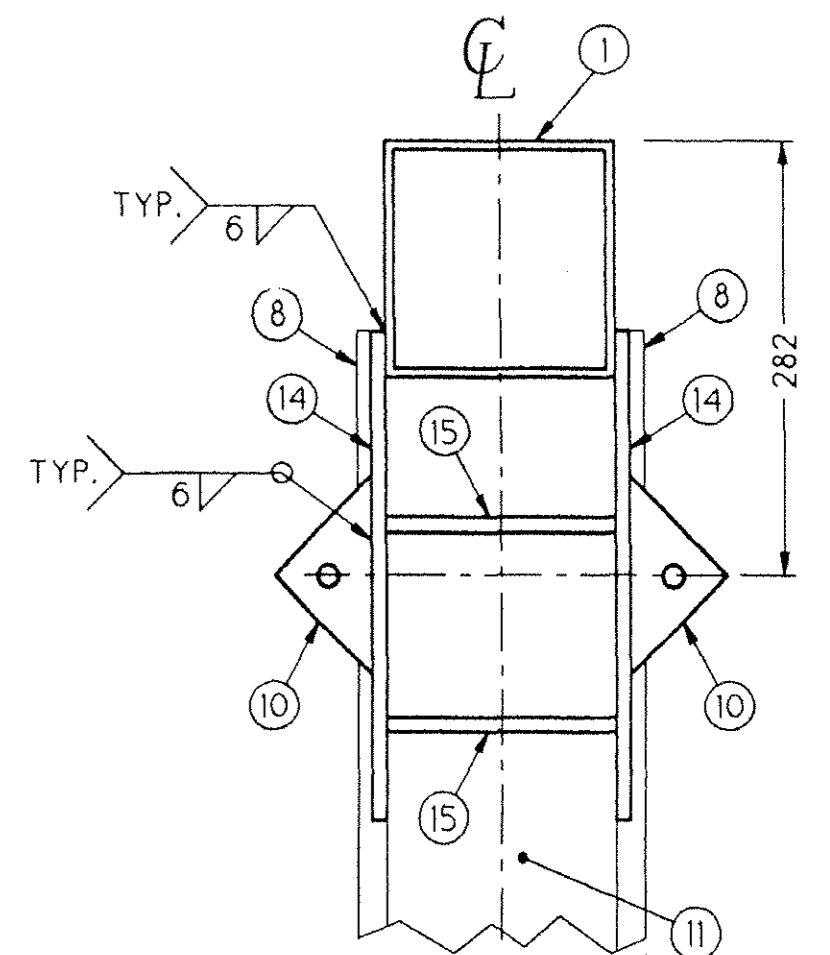
This drawing is the property of Rubb, Inc. and may not be reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.

DRAWING NO. 37880

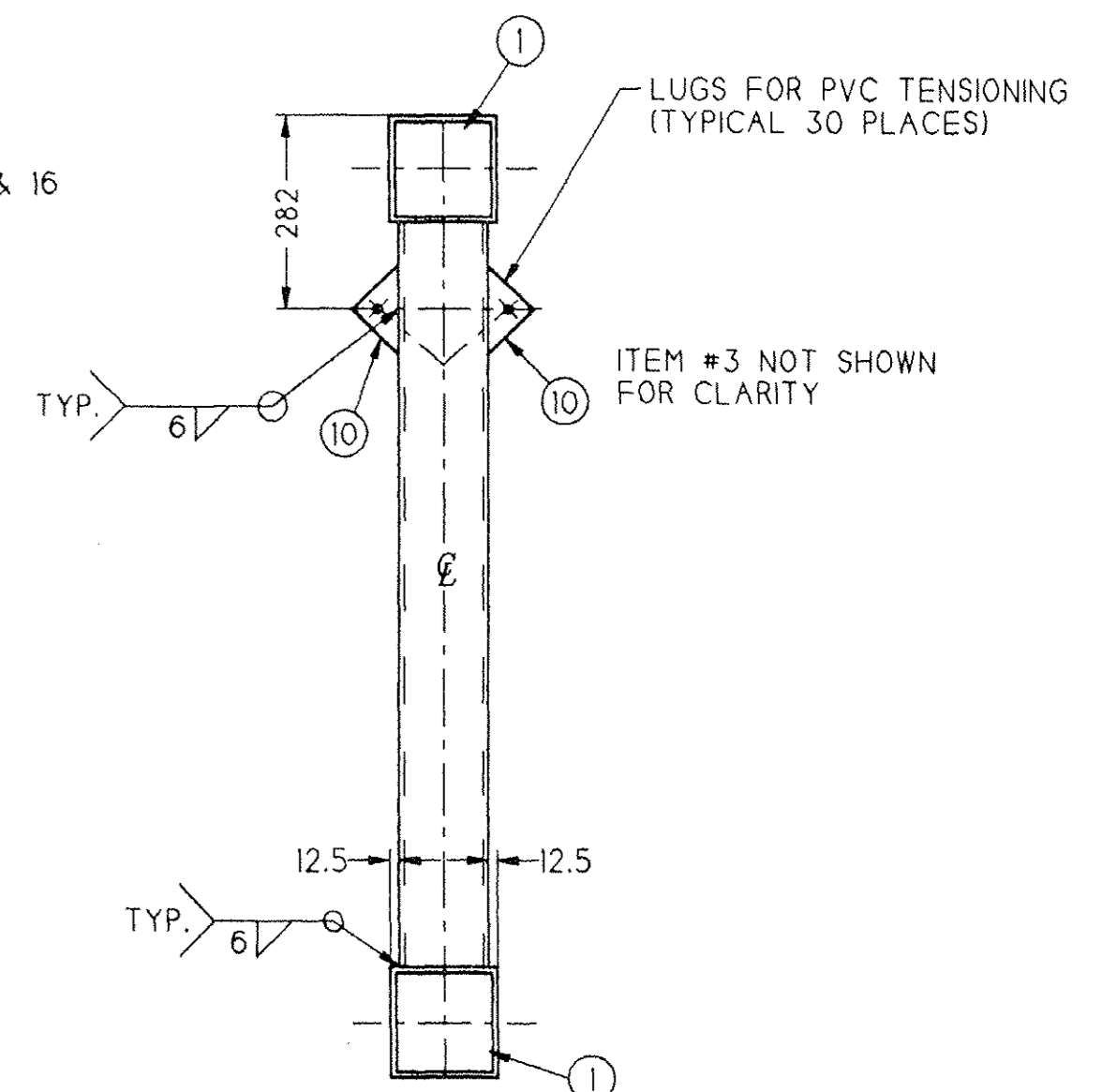




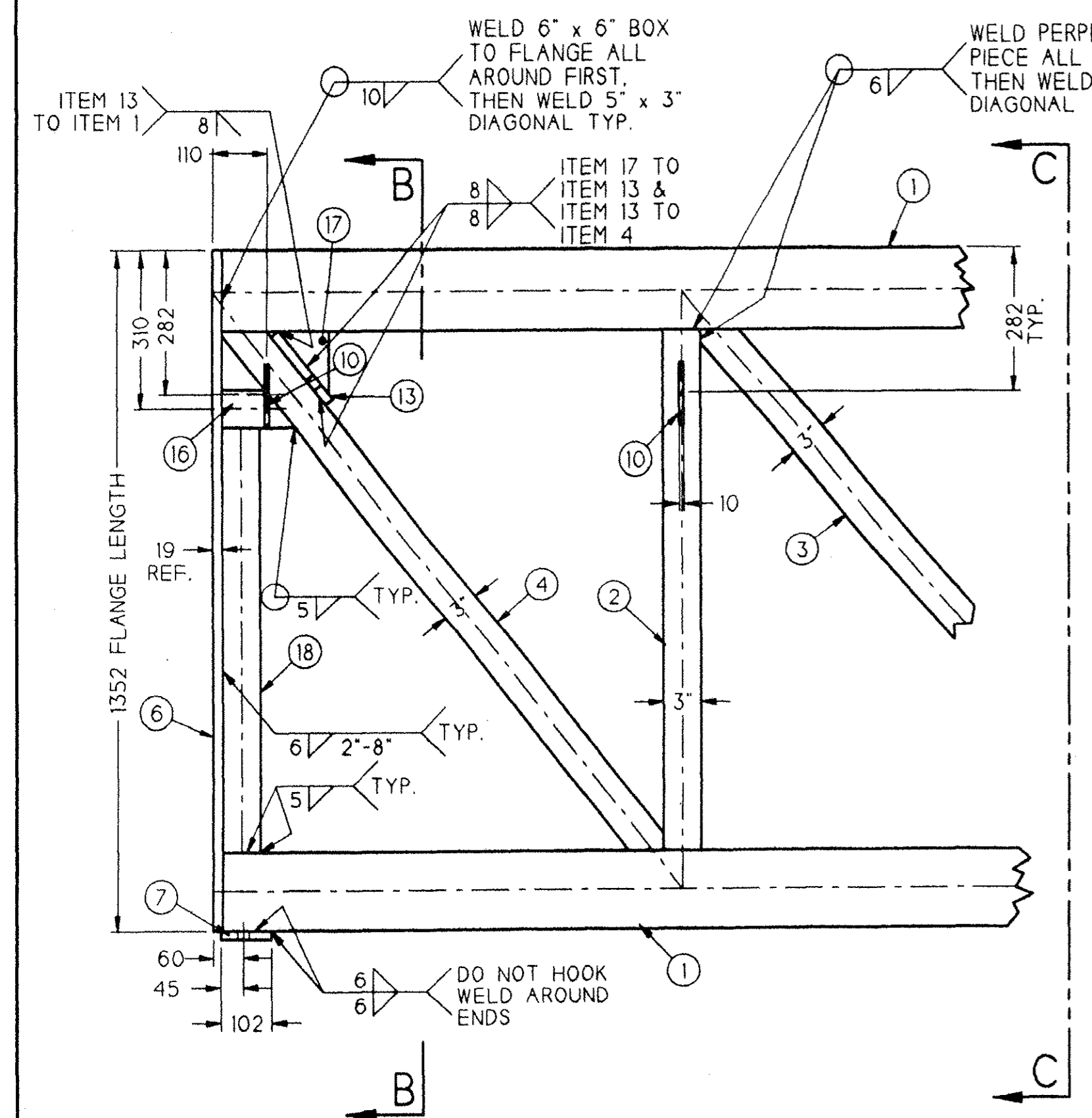
ASSEMBLY CG-1



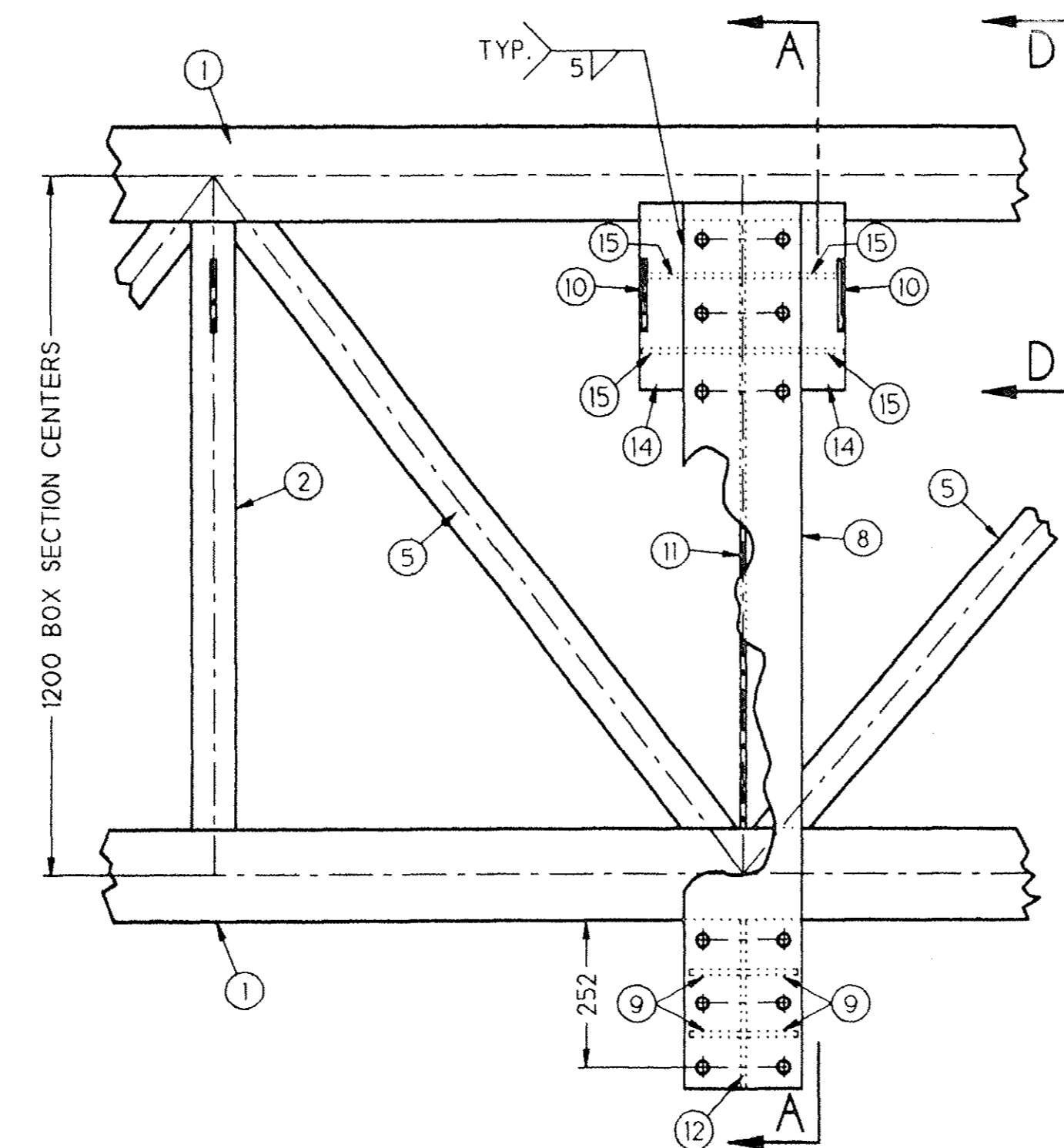
SECTION "D-D"
4x SCALE



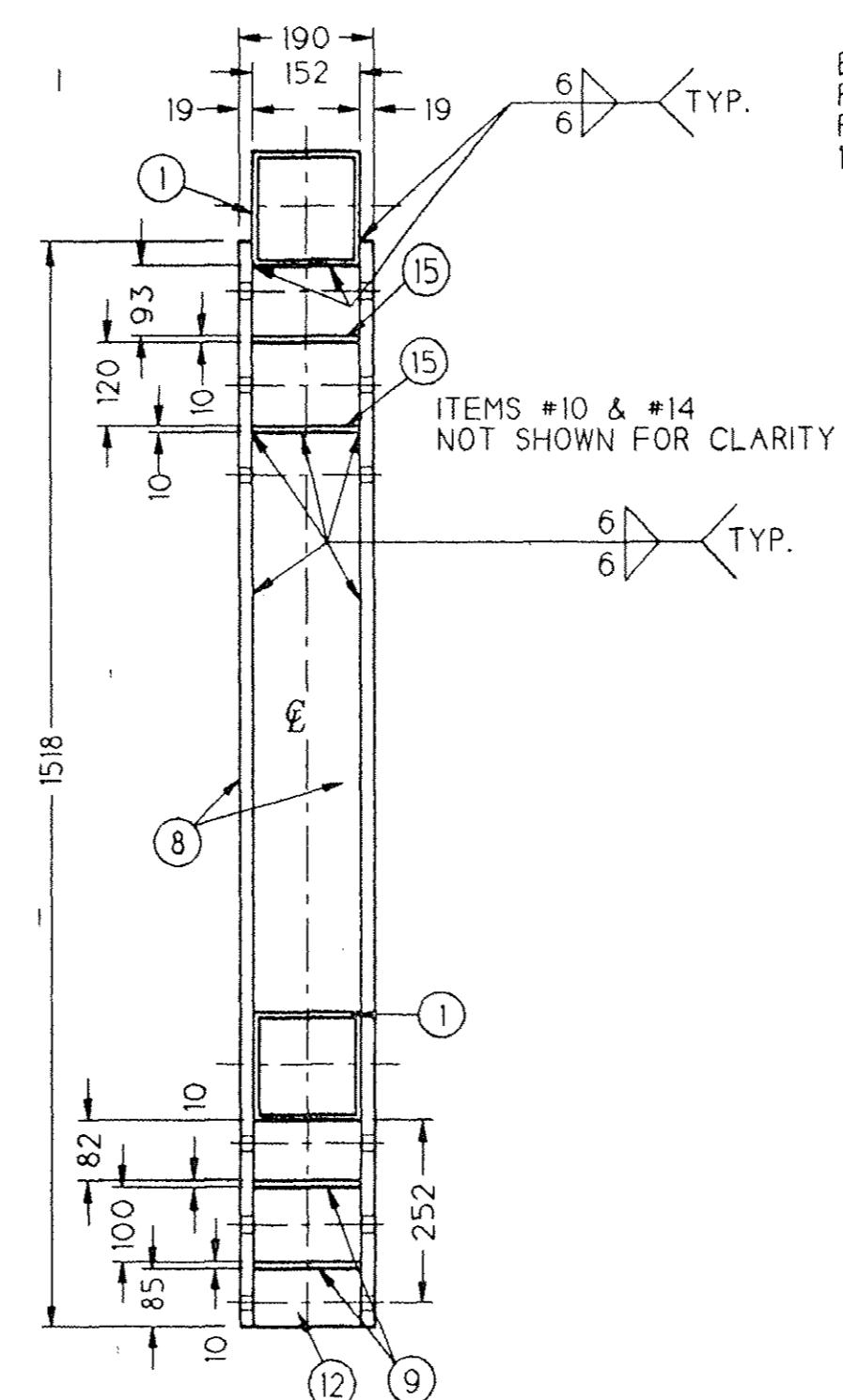
SECTION "C-C"
2x SCALE



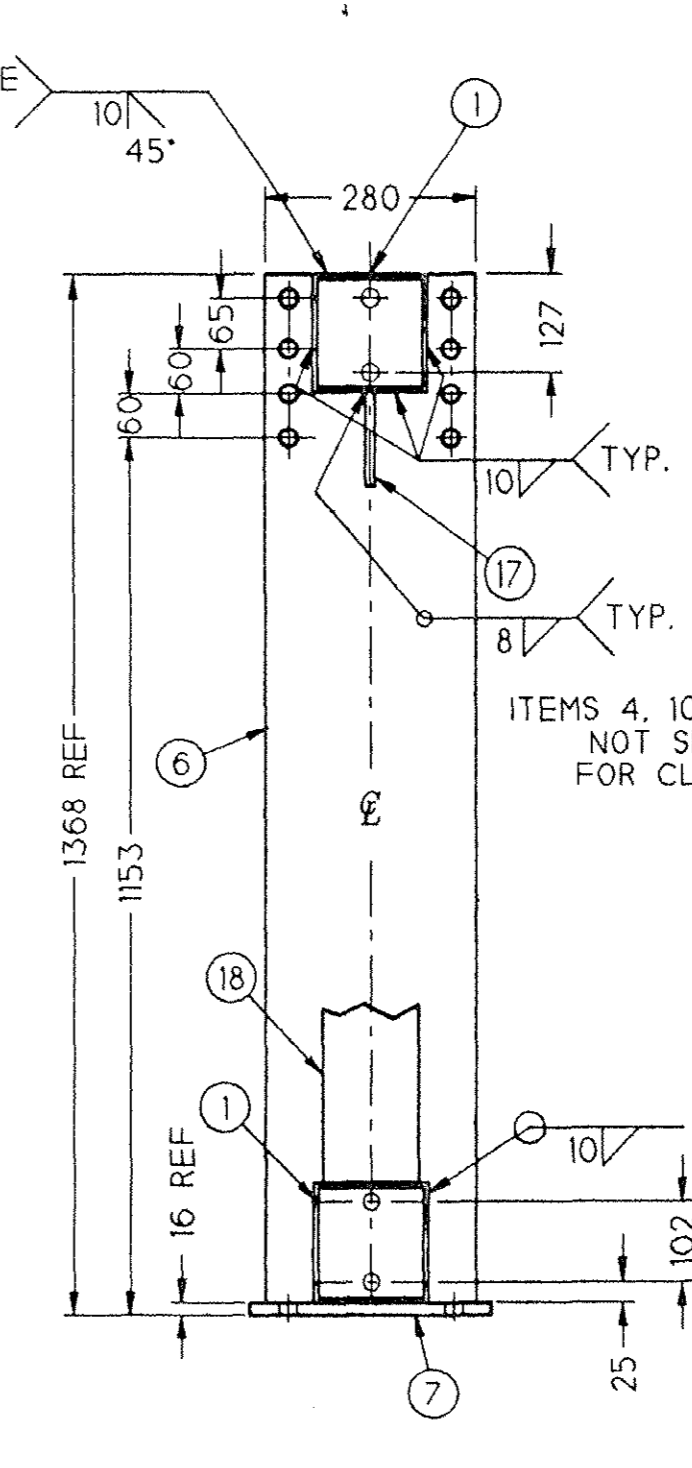
DETAIL "A"
2x SCALE



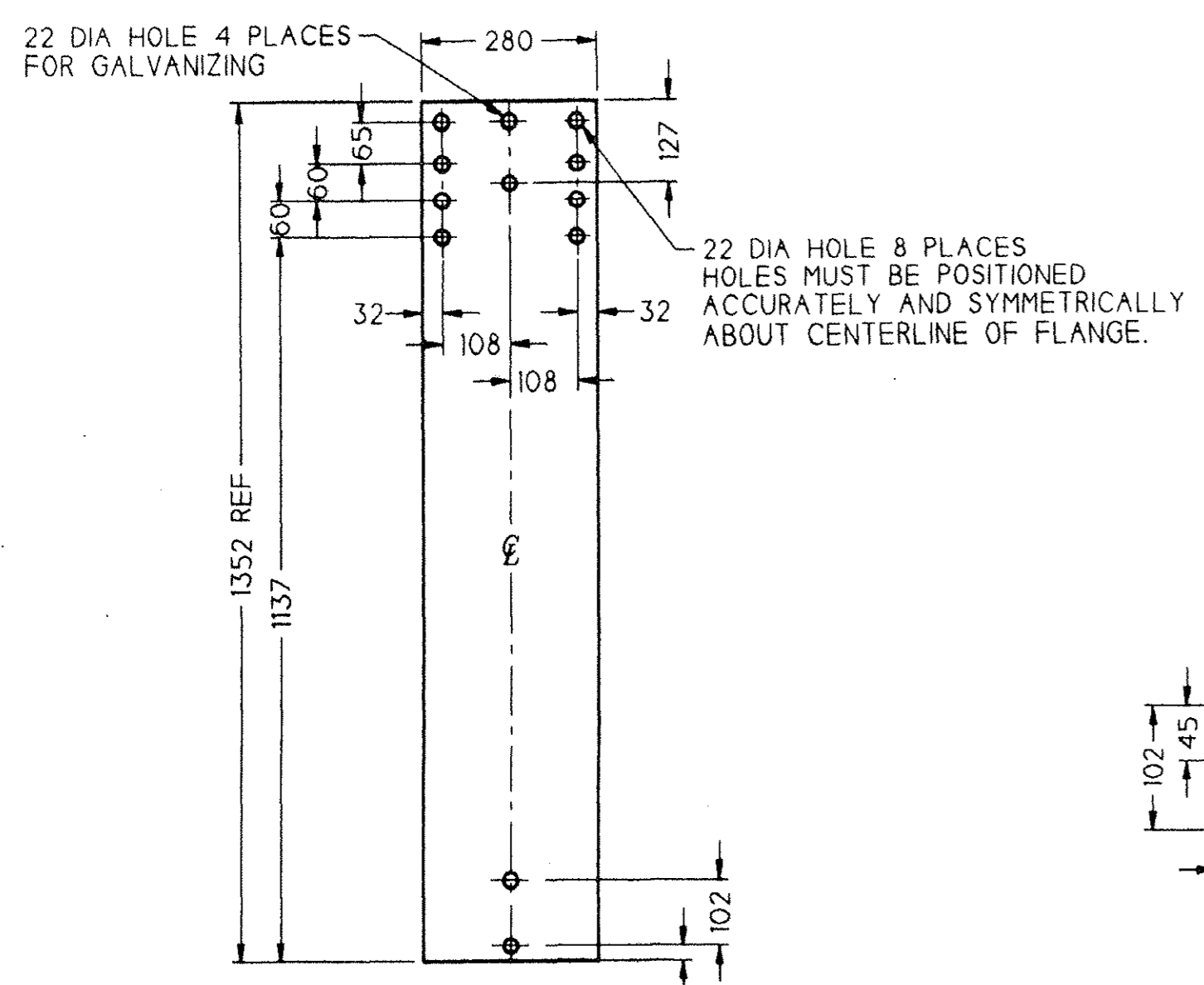
DETAIL "B"
2x SCALE



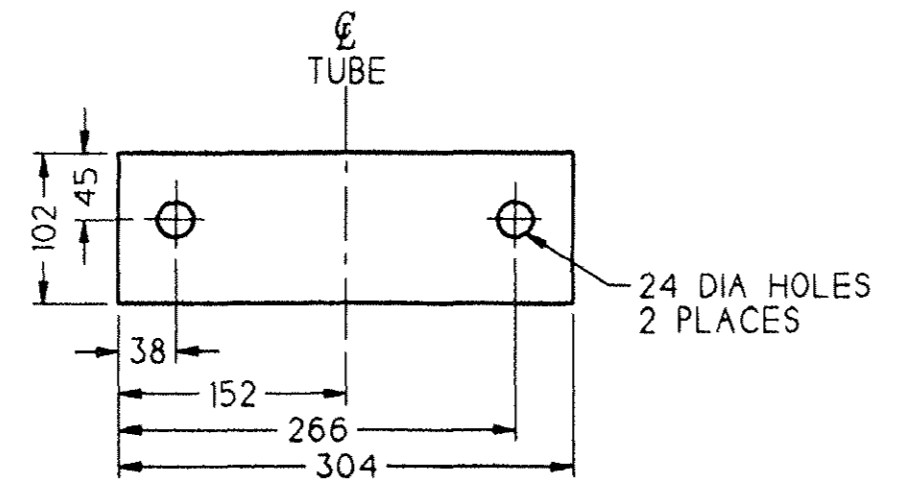
SECTION "A-A"
2x SCALE



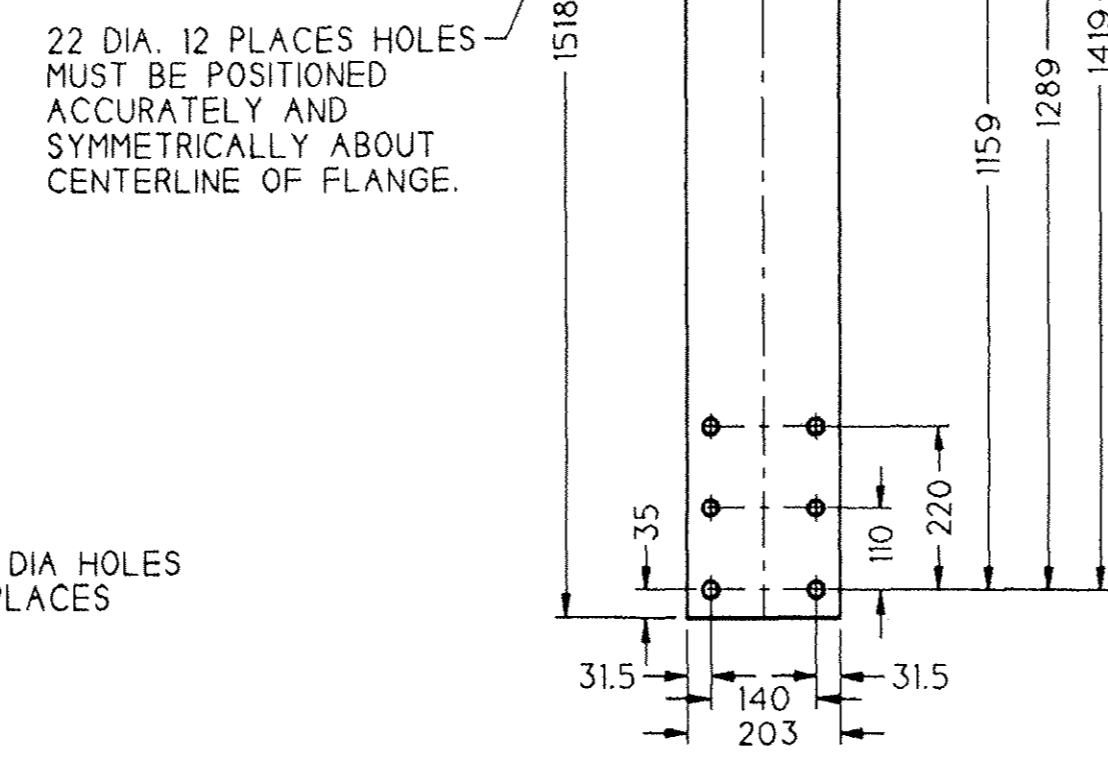
SECTION "B-B"
2x SCALE



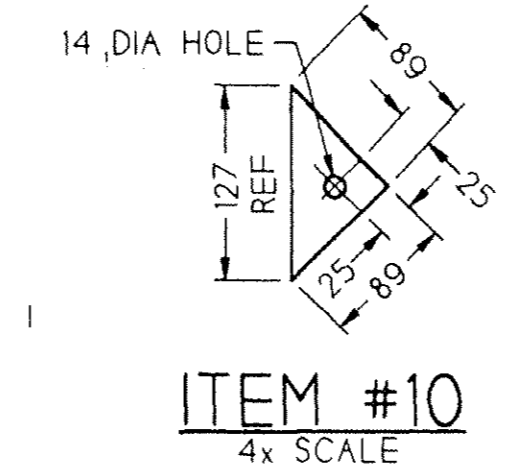
ITEM #6
2x SCALE



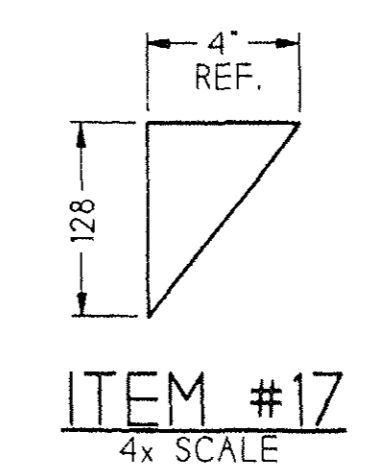
ITEM #7
4x SCALE



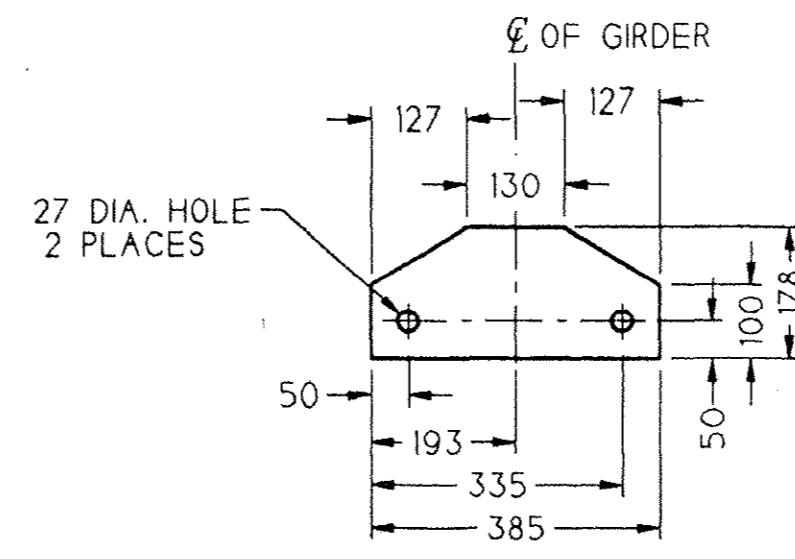
ITEM #8
2x SCALE



ITEM #10
4x SCALE

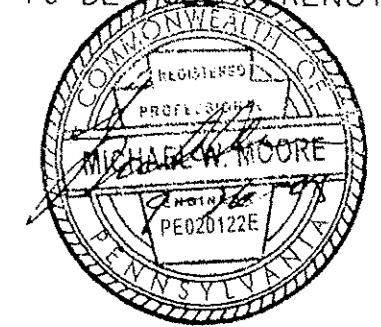
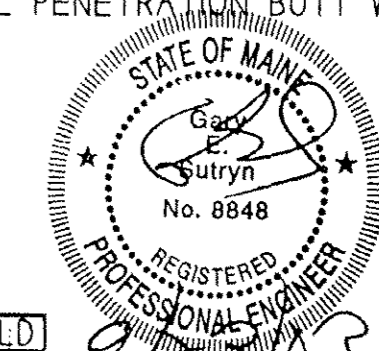
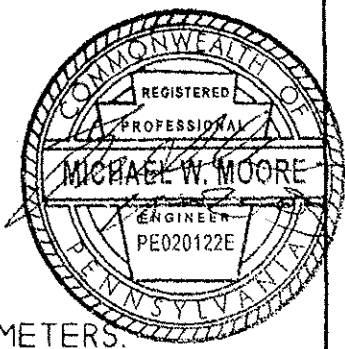


ITEM #17
4x SCALE



ITEM #13
2x SCALE

- NOTES:
- 1.) BREAK SHARP CORNERS FOR PVC.
 - 2.) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
 - 3.) BILL OF MATERIAL IS FOR ONE ASSEMBLY.
 - 4.) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.
 - 5.) VENT ALL TUBES AS REQUIRED FOR GALVANIZING.
 - 6.) ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS UNLESS NOTED OTHERWISE. ALL BUTT WELDS TO BE FULL STRENGTH. FULL PENETRATION BUTT WELDS.



ITEM	QTY	DESCRIPTION	SPEC.	MIN. YIELD
1	2	TS 6" x 6" x 3/8" x 11382	A500	50 ksi
2	9	TS 5" x 3" x 3/16"	A500	50 ksi
3	6	TS 5" x 3" x 3/16"	A500	50 ksi
4	2	TS 5" x 3" x 1/4"	A500	50 ksi
5	4	TS 5" x 3" x 3/16"	A500	50 ksi
6	2	FLAT 3/4" x 280" x 1352	A36	36 ksi
7	2	FLAT 5/8" x 4" x 304	A36	36 ksi
8	4	FLAT 3/4" x 8" x 1518	A36	36 ksi
9	8	FLAT 3/8" x 3 1/2" x 152	A36	36 ksi
10	30	FLAT 3/8" x 3 1/2" x 89	A36	36 ksi
11	2	FLAT 3/8" x 6" x 1048	A36	36 ksi
12	2	FLAT 3/8" x 6" x 287	A36	36 ksi
13	2	FLAT 3/4" x 7" x 385	A36	36 ksi
14	8	FLAT 3" x 3/8" x 321	A36	36 ksi
15	8	FLAT 3/8" x 6" x 170	A36	36 ksi
16	2	TS 5" x 3" x 3/16"	A500	50 ksi
17	2	FLAT 4" x 1/2" x 128	A36	36 ksi
18	2	TS 5" x 3" x 3/16"	A500	50 ksi

STATE OF MAINE
Michael W. Moore
No. 8848
REGISTERED PROFESSIONAL ENGINEER

STATE OF MAINE
Michael W. Moore
No. 8848
REGISTERED PROFESSIONAL ENGINEER

STATE OF MAINE
Michael W. Moore
No. 8848
REGISTERED PROFESSIONAL ENGINEER

REVISED FOR FABRICATION

REV.	DESCRIPTION	DRAWN	APP.	DATE
A	REVISED FOR FABRICATION			

We Cover The World
RUBB
BUILDING SYSTEMS

33.5m BVE BILINK / 7m LEG
37.5' CENTRAL GIRDER
BRACED BAYS

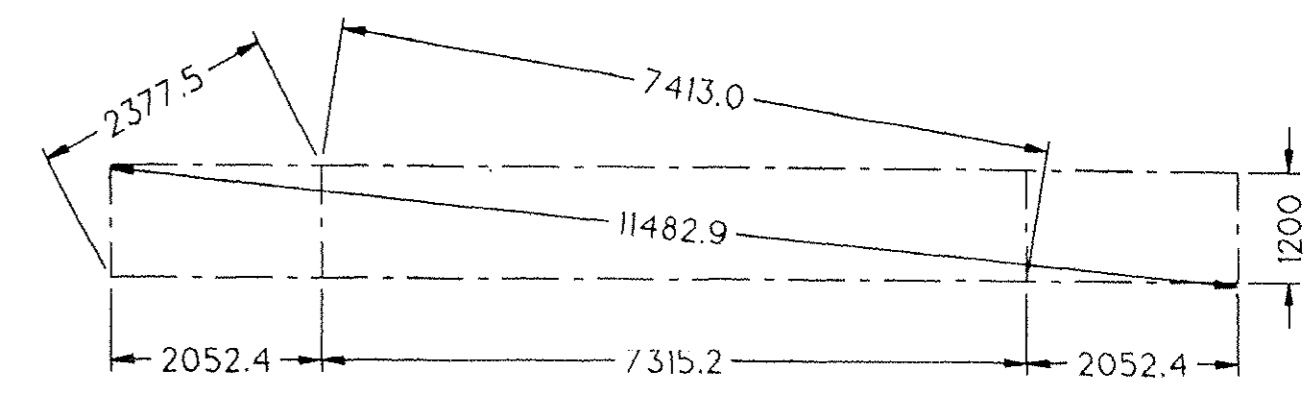
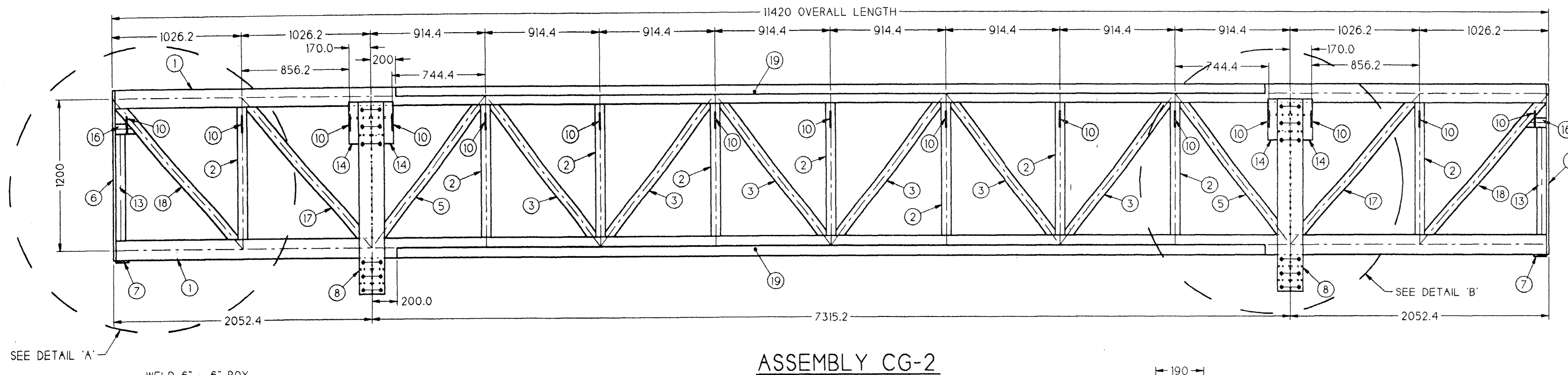
SCALE: 1:20

DATE: AR 8-13-03
DATE: GES 8-16-03
JOB NO: 03088

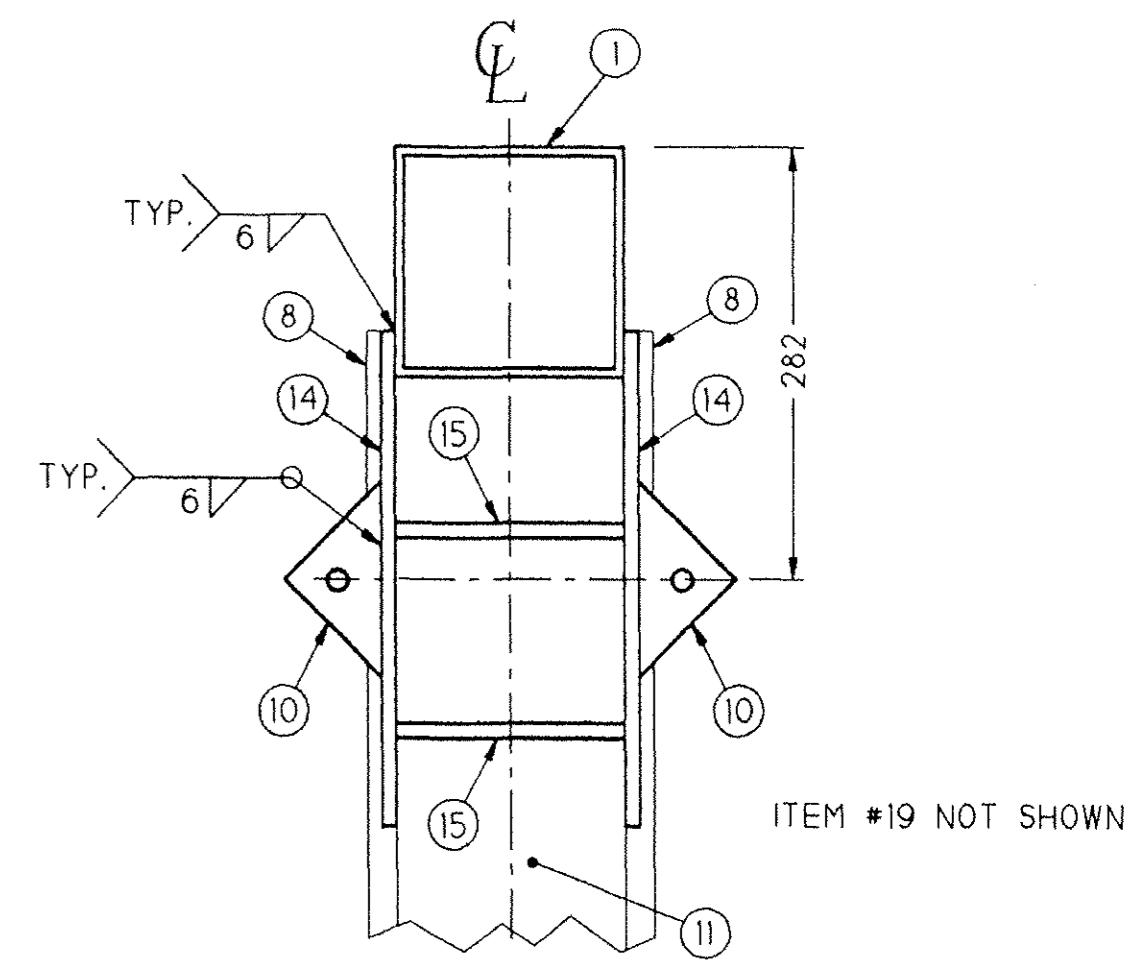
This drawing is the property of Rubb, Inc. and may not be reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.

RUBB, INC. SANFORD MAINE 04073
TEL: 207-324-2877 FAX 207-324-2347

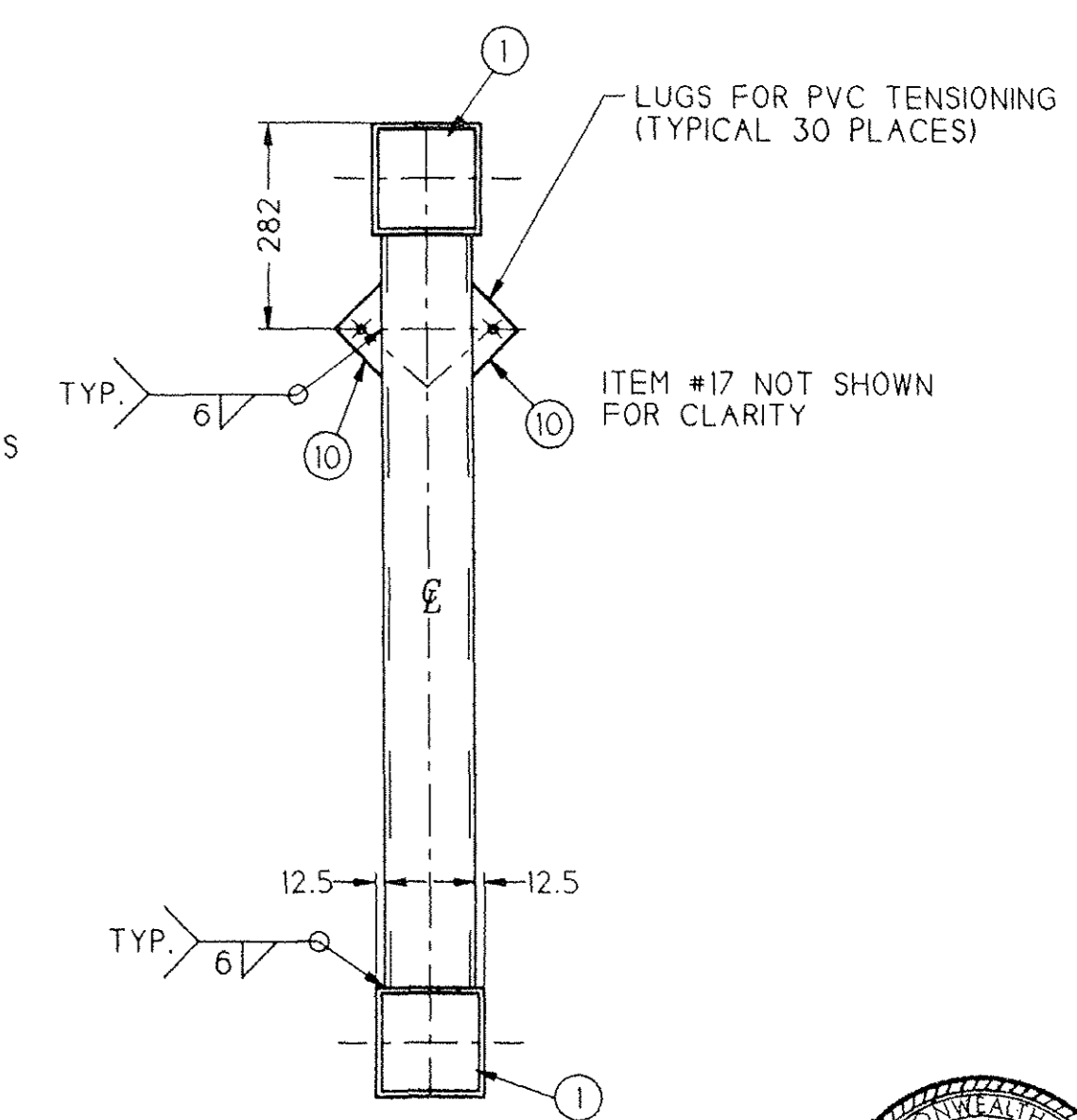
37882



CENTRAL GIRDER CENTERLINES
1/4x SCALE

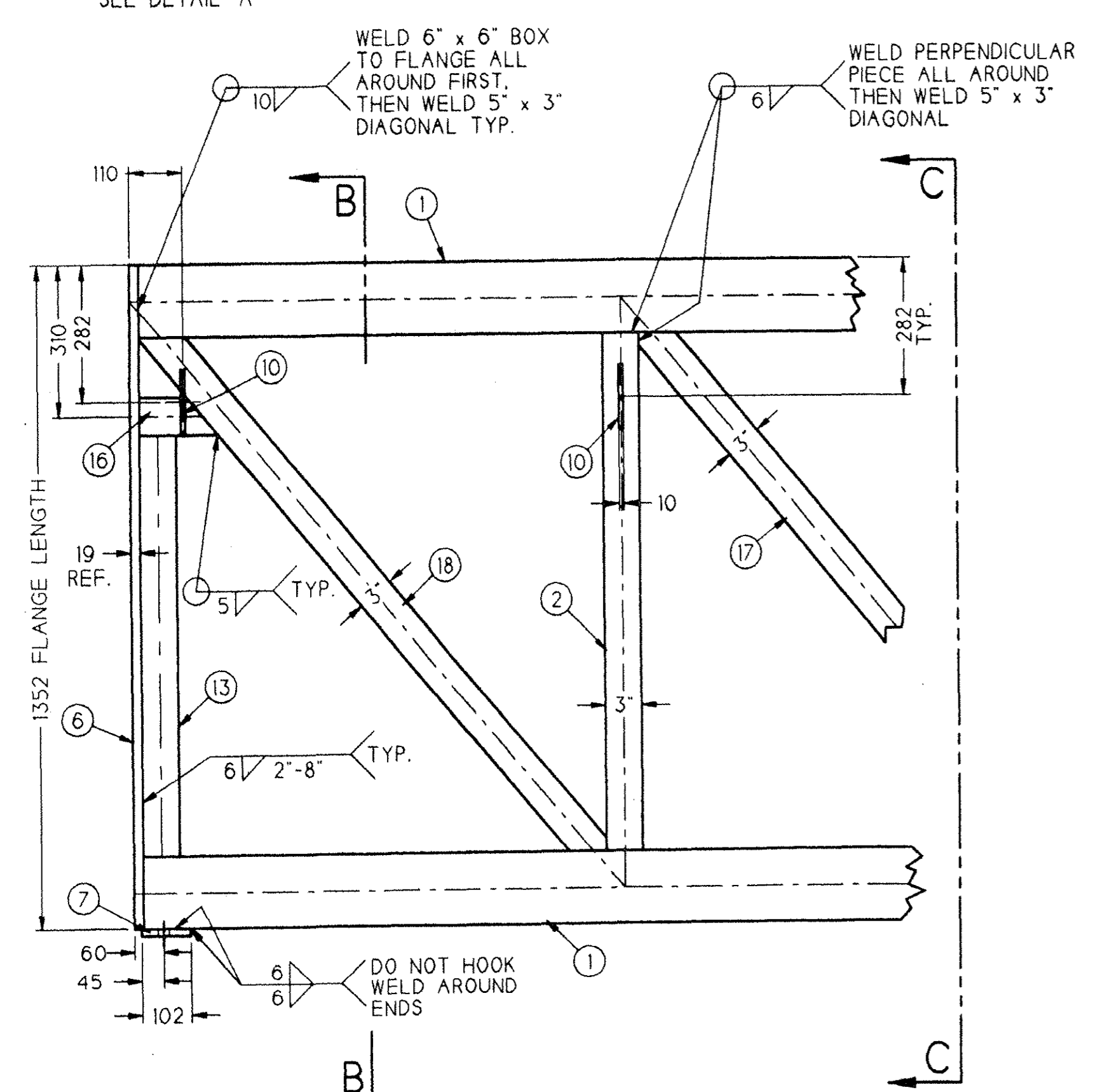


SECTION "D-D"
4x SCALE

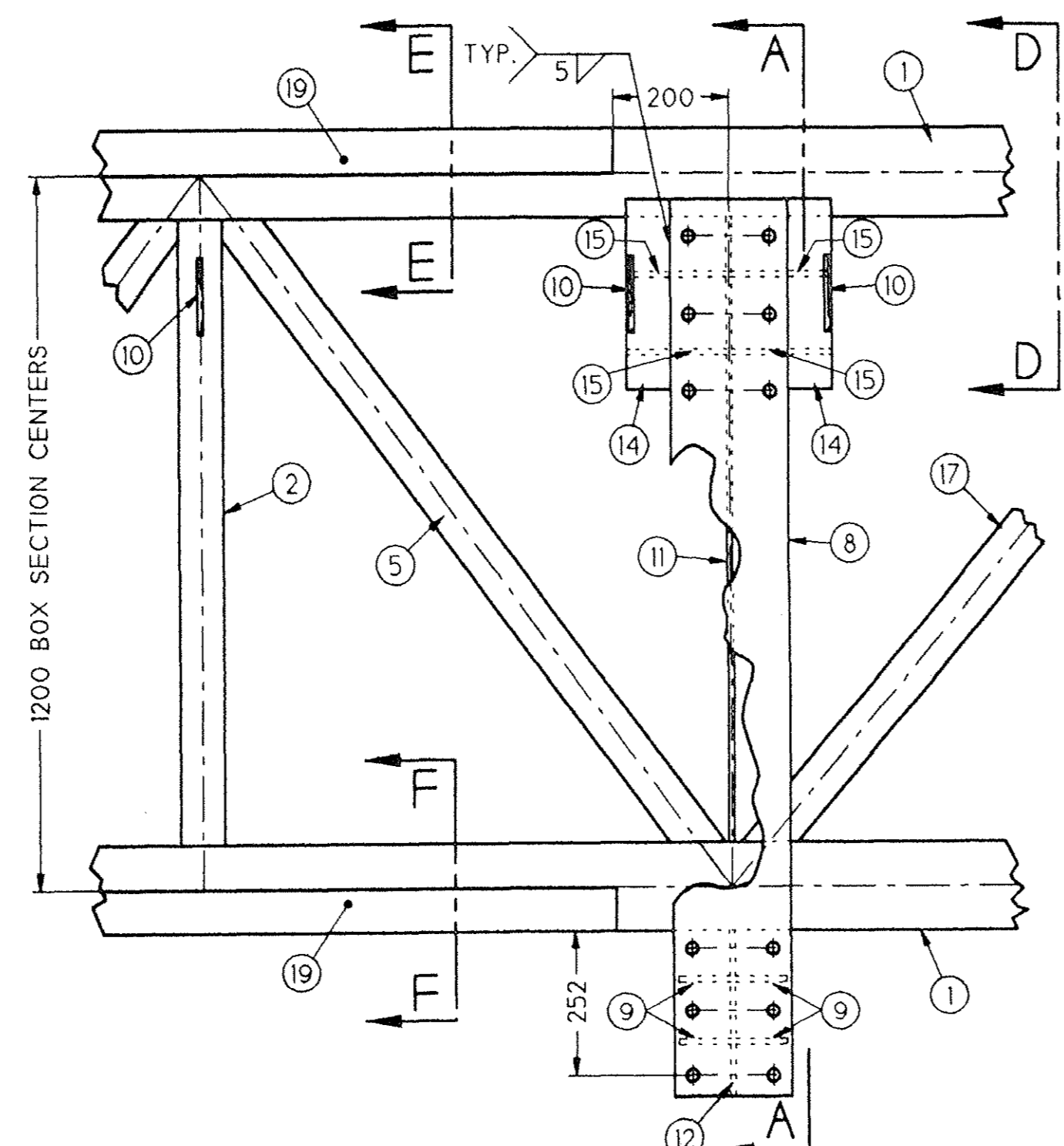


SECTION "C-C"
2x SCALE

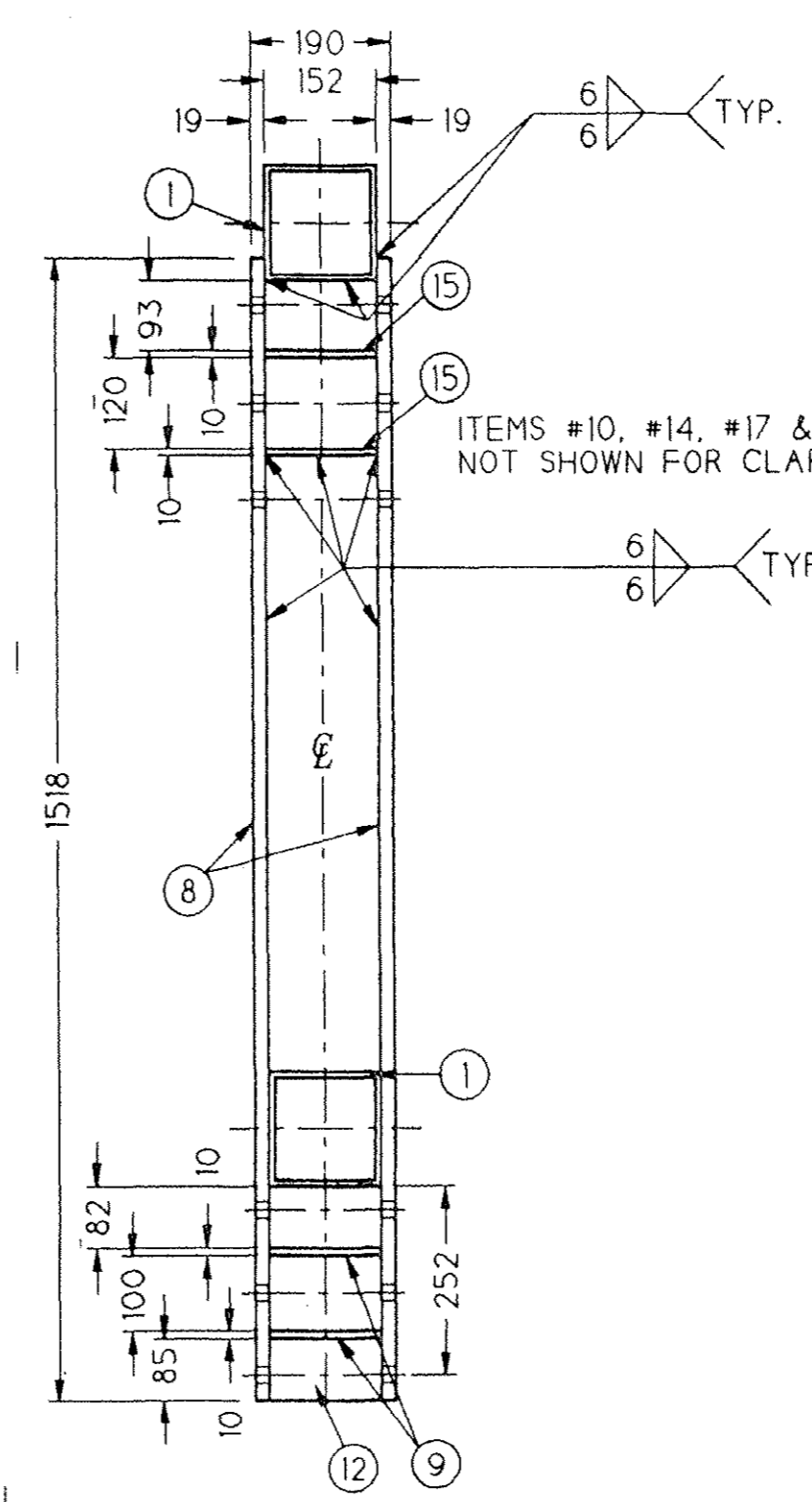
ASSEMBLY CG-2



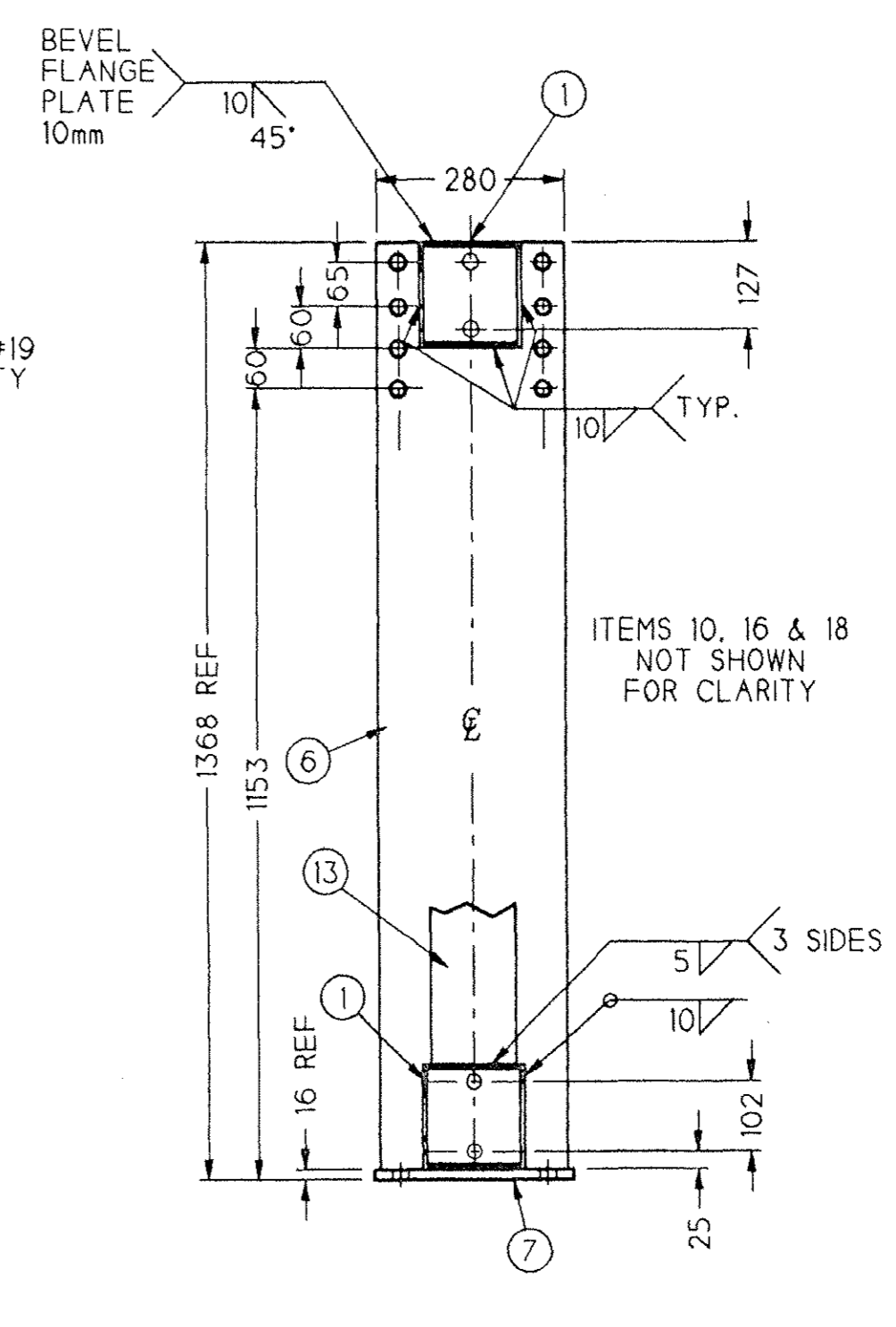
DETAIL A
2x SCALE



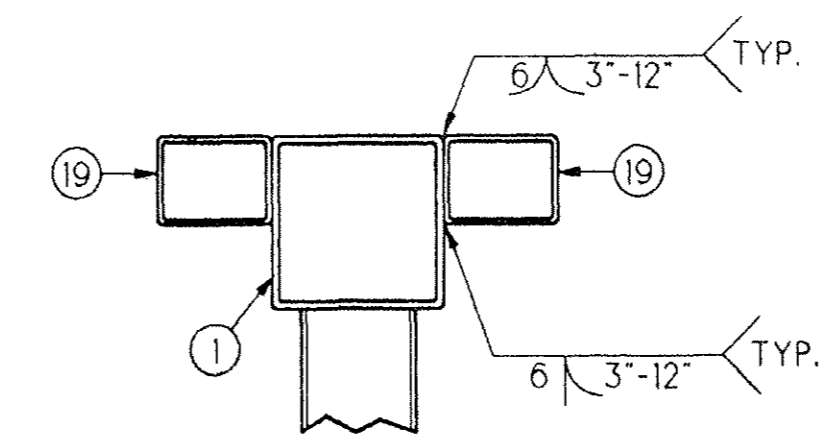
DETAIL B
2x SCALE



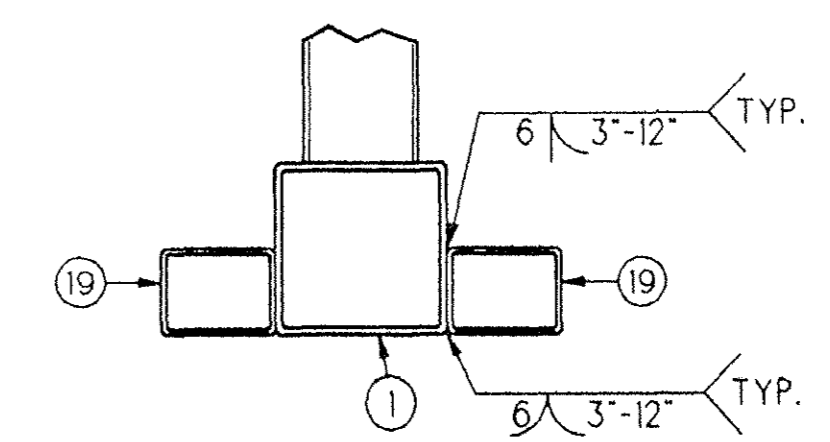
SECTION "A-A"
2x SCALE



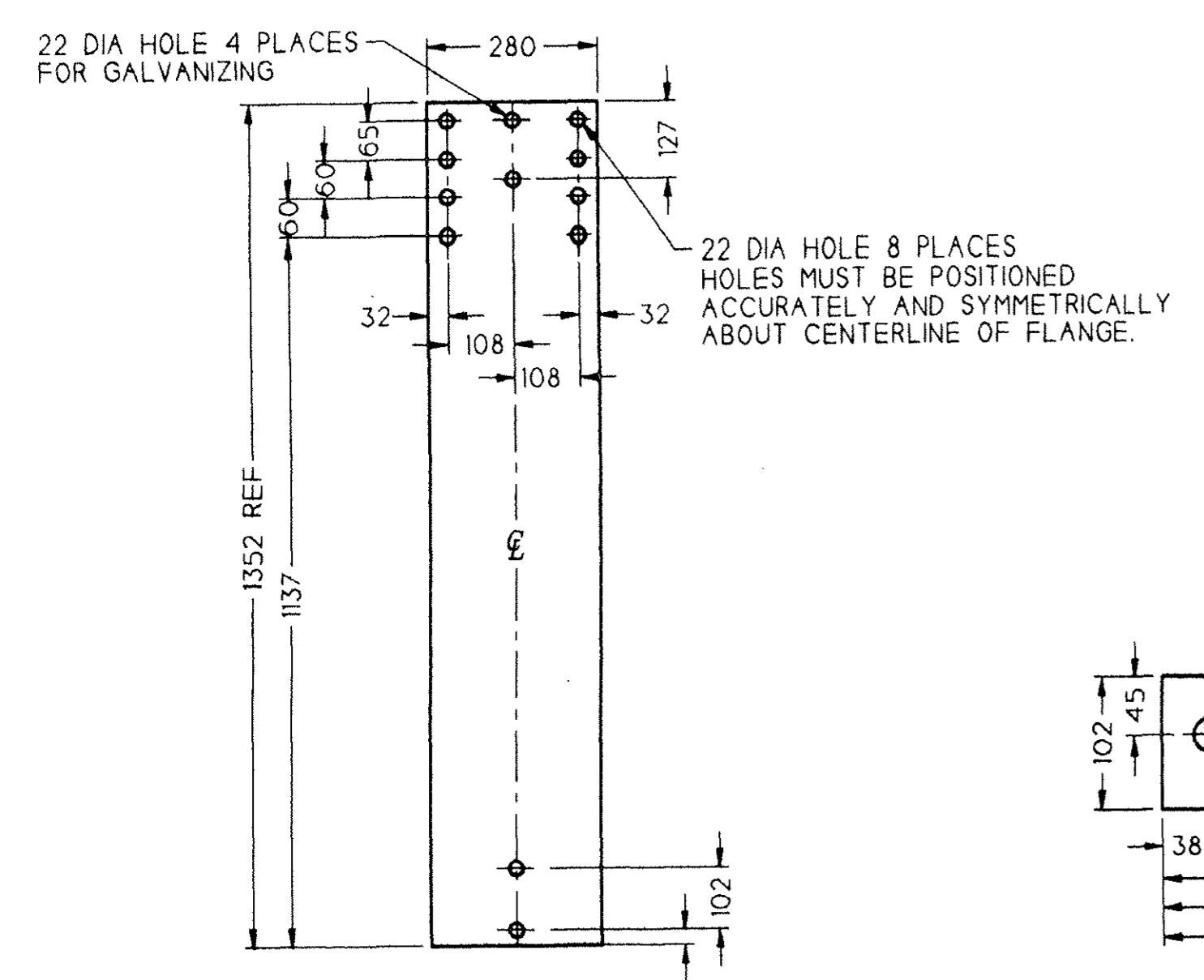
SECTION "B-B"
2x SCALE



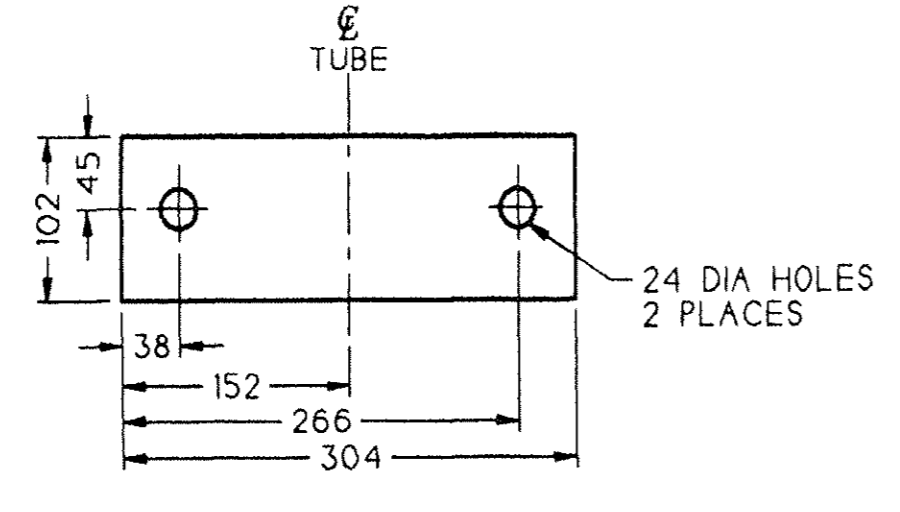
SECTION "E-E"
3x SCALE
TOP SURFACES FLUSH



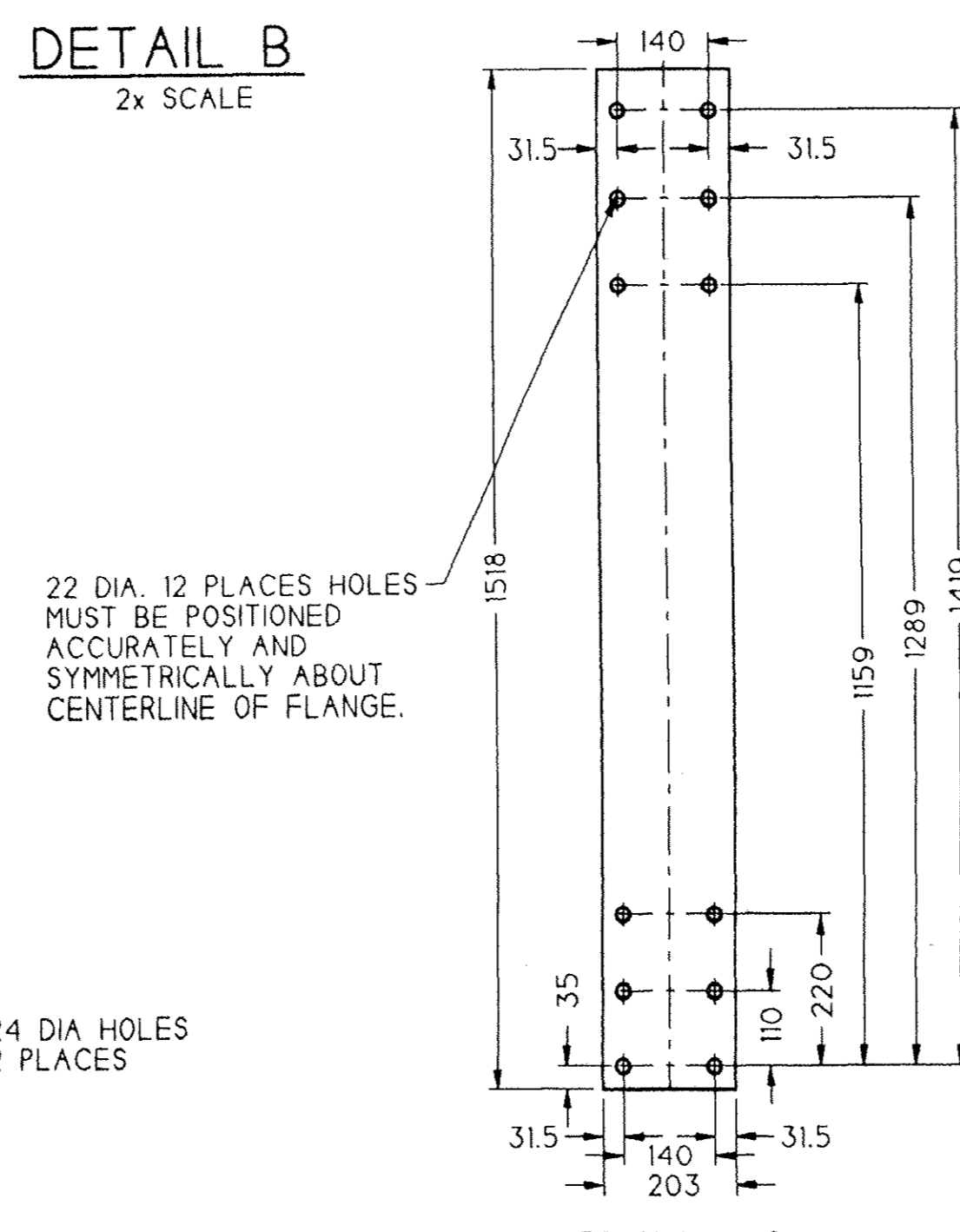
SECTION "F-F"
3x SCALE
BOTTOM SURFACES FLUSH



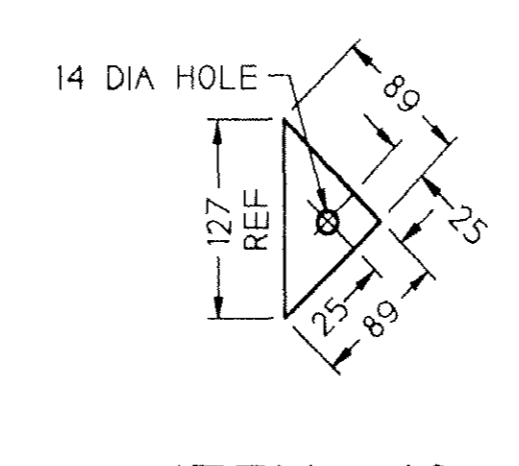
ITEM #6
2x SCALE



ITEM #7
4x SCALE



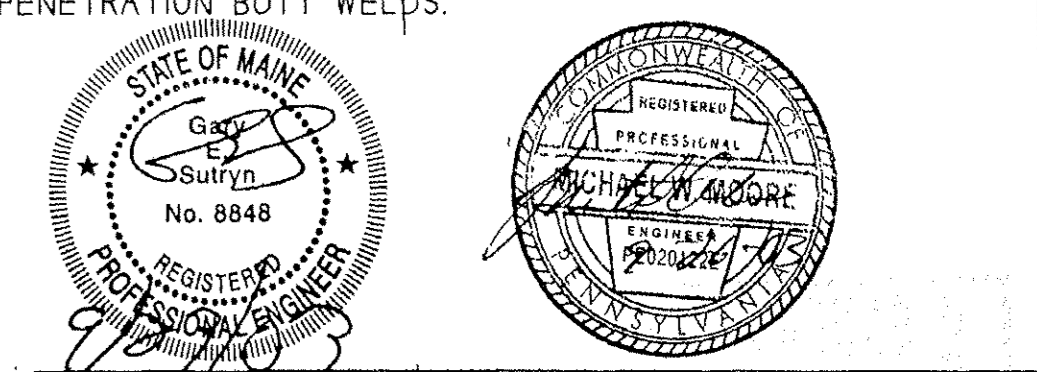
ITEM #8
2x SCALE



ITEM #10
4x SCALE

- NOTES:**
- 1) BREAK SHARP CORNERS FOR PVC.
 - 2) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
 - 3) BILL OF MATERIAL IS FOR ONE ASSEMBLY.
 - 4) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.
 - 5) VENT ALL TUBES AS REQUIRED FOR GALVANIZING.
 - 6) ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS UNLESS NOTED OTHERWISE. ALL BUTT WELDS TO BE FULL STRENGTH, FULL PENETRATION BUTT WELDS.

ITEM	QTY	DESCRIPTION	SPEC.	MIN. YIELD
1	2	TS 6" x 6" x 3/8 x 11382	A500	50 ksi
2	9	TS 5" x 3" x 1/4"	A500	50 ksi
3	6	TS 5" x 3" x 3/16"	A500	50 ksi
4	-	-	-	-
5	2	TS 5" x 3" x 3/16"	A500	50 ksi
6	2	FLAT 3/4" x 280 x 1352	A36	36 ksi
7	2	FLAT 5/8" x 4" x 304	A36	36 ksi
8	4	FLAT 3/4" x 8" x 1518	A36	36 ksi
9	8	FLAT 3/8" x 3 1/2" x 152	A36	36 ksi
10	30	FLAT 3/8" x 3 1/2" x 89	A36	36 ksi
11	2	FLAT 3/8" x 6" x 1048	A36	36 ksi
12	2	FLAT 3/8" x 6" x 287	A36	36 ksi
13	2	TS 5" x 3" x 3/16"	A500	50 ksi
14	8	FLAT 3" x 3/8" x 321	A36	36 ksi
15	8	FLAT 3/8" x 6" x 170	A36	36 ksi
16	2	TS 5" x 3" x 3/16"	A500	50 ksi
17	2	TS 5" x 3" x 1/4"	A500	50 ksi
18	2	TS 5" x 3" x 1/4"	A500	50 ksi
19	4	TS 4" x 3" x 3/16" x 6915	A500	50 ksi



REVISIONS FOR FABRICATION

REV	DESCRIPTION	MRB	DATE
A			

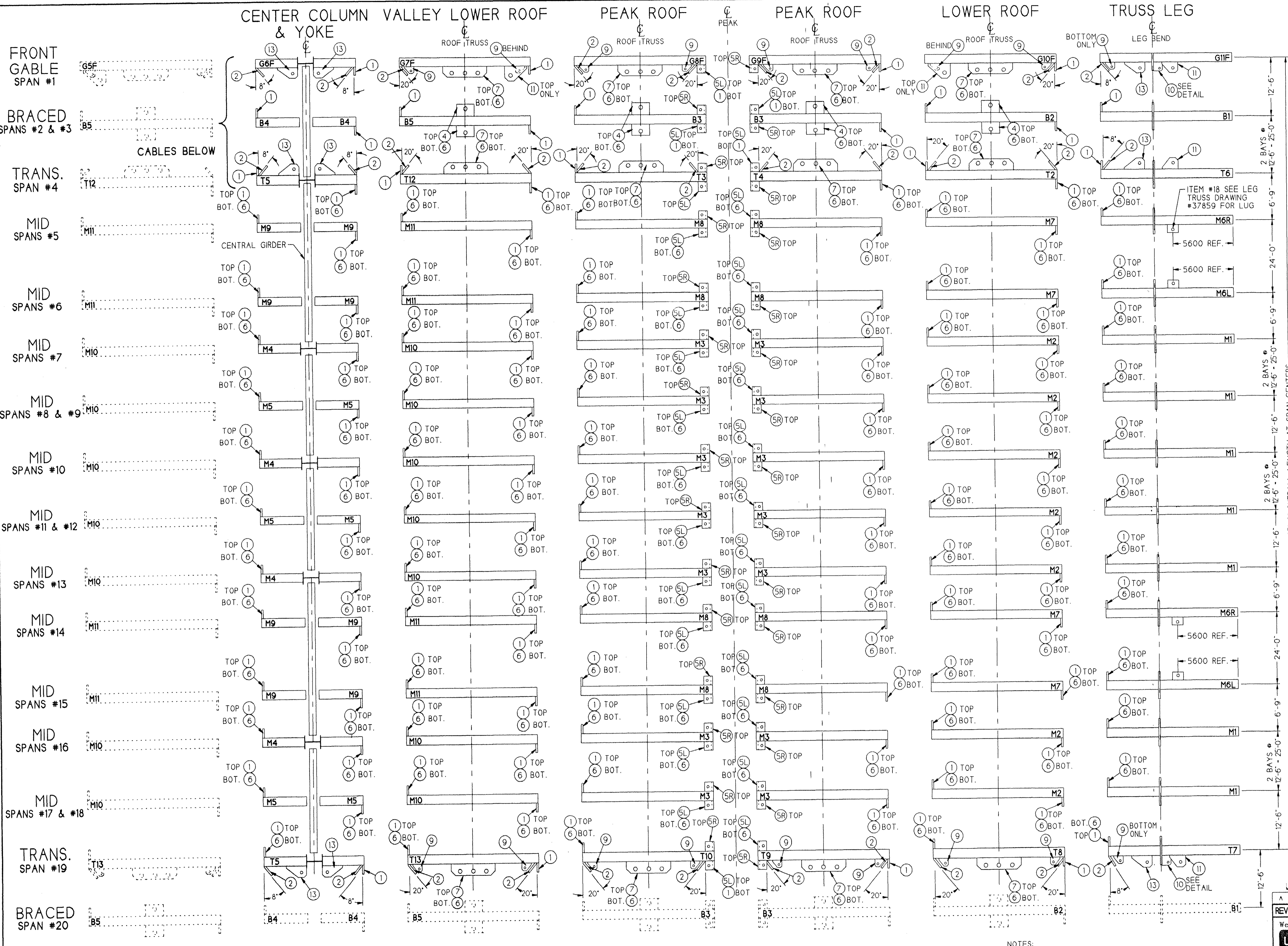
RUBB BUILDING SYSTEMS

33.5m BVE BILINK / 7m LEG
37.5' CENTRAL GIRDER
24'-0" BAYS

AR 8-14-03
GES 8-26-03

RUBB, INC. SANFORD MAINE 04073
TEL: 207-324-2877 FAX 207-324-2347

37883



FRONT GABLE SPAN #1

BRACED SPANS #2 & #3

TRANS. SPAN #4

MID SPANS #5

MID SPANS #6

MID SPANS #7

MID SPANS #8 & #9

MID SPANS #10

MID SPANS #11 & #12

MID SPANS #13

MID SPANS #14

MID SPANS #15

MID SPANS #16

MID SPANS #17 & #18

TRANS. SPAN #19

BRACED SPAN #20

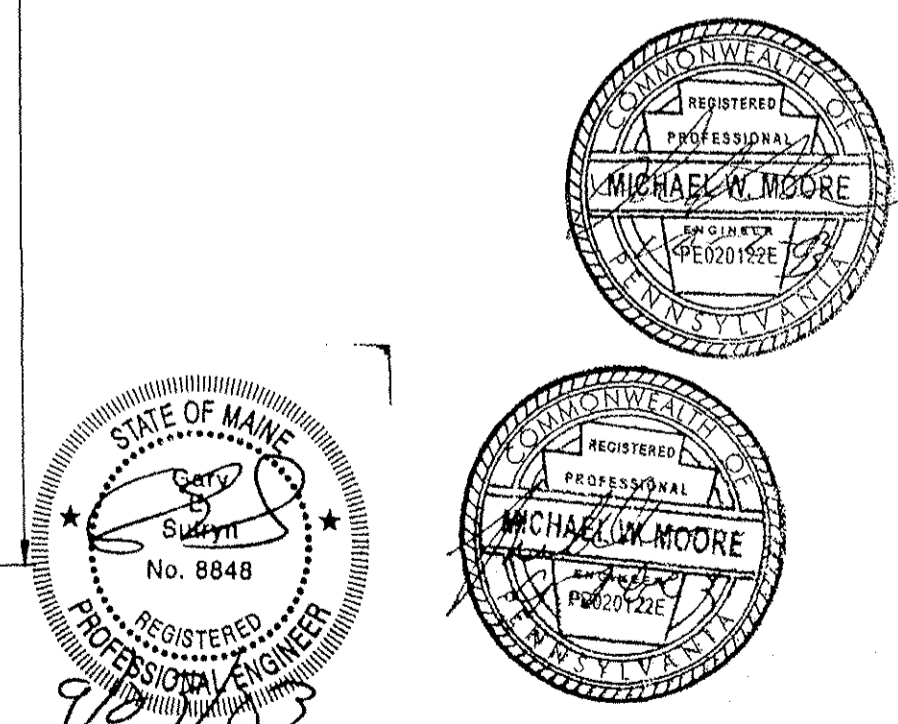
225'-0" OVERALL LENGTH AT SPAN CENTERS

SCHEMATIC PLAN VIEW

LAND SIDE
SOUTHWEST QUADRANT
NOT TO SCALE



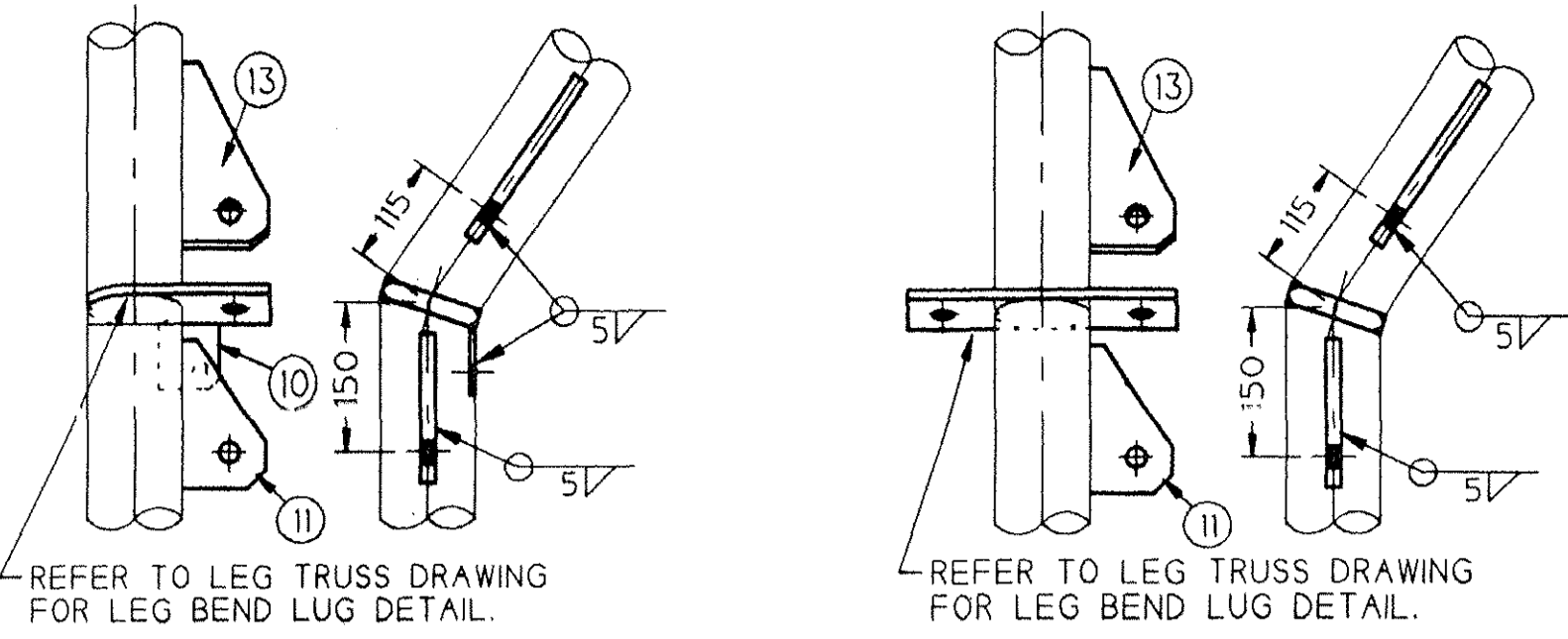
- NOTES:
- 1.) SEE DRAWINGS 37857, 37858, 37860 & 37861 FOR ROOF TRUSS DETAILS.
 - 2.) SEE DRAWING 37856 & 37859 FOR LEG TRUSS DETAILS.
 - 3.) SEE DRAWING 11006 FOR GENERAL WELDING NOTES.
 - 4.) SEE DRAWING 37885 FOR LUG AND WELDING DETAILS.
 - 5.) BREAK SHARP CORNERS FOR PVC.
 - 6.) SEE DRAWING 37879 FOR LOCATION DETAILS FOR ITEM 13 ON DOUBLE YOKE ASSEMBLIES G6F, T5 & G6R. COPE LUG AROUND STIFFENER AS REQUIRED.



REV.	DESCRIPTION	DATE	DRAWN	APP.	DATE
A	RELOCATED DOOR BAYS.	KV	JMG		09/10/13
<p>We Cover The World</p> <p>RUBB BUILDING SYSTEMS</p> <p>33.5m BVE BILINK / 7m LEG LUG SCHEMATIC - 3 BAY X-BRACED SHEET 1 OF 4</p>					
DRAWN	KV 08-15-03	SCALE	1 : 2	This drawing is the property of Rubb, Inc. and may not be reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.	
APP.	GES 8-25-03	JOB #	03088		
DATE		JOB NAME	JMG		
RUBB, INC. SANFORD MAINE 04073				DRAWING NO.	
TEL: 207-324-2877 FAX 207-324-2347				37884	

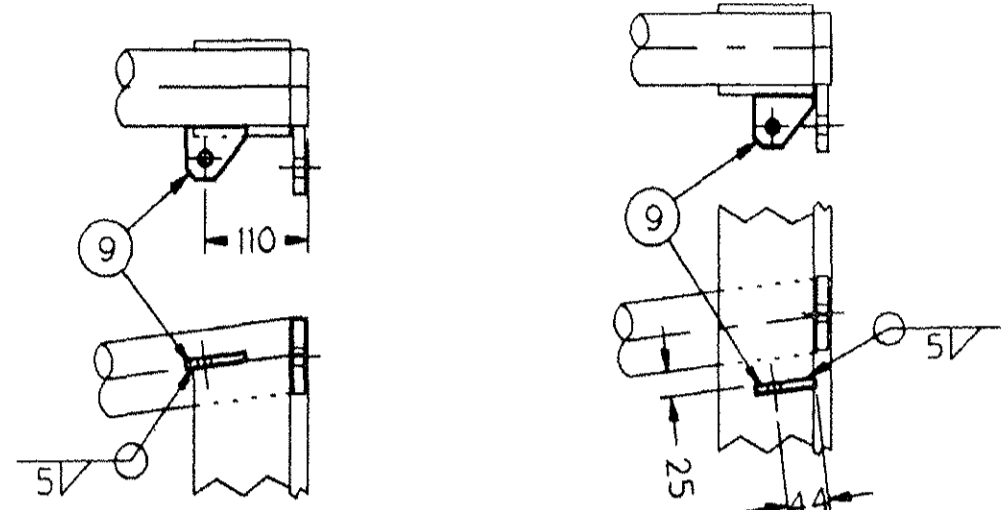
SHOP NOTES:

- 1.) ITEM #1 & ITEM #9 TOP & BOTTOM UNLESS NOTED OTHERWISE.
- 2.) CENTER GIRDERS SHOWN REPRESENTATIVELY, FOR REFERENCE ONLY.



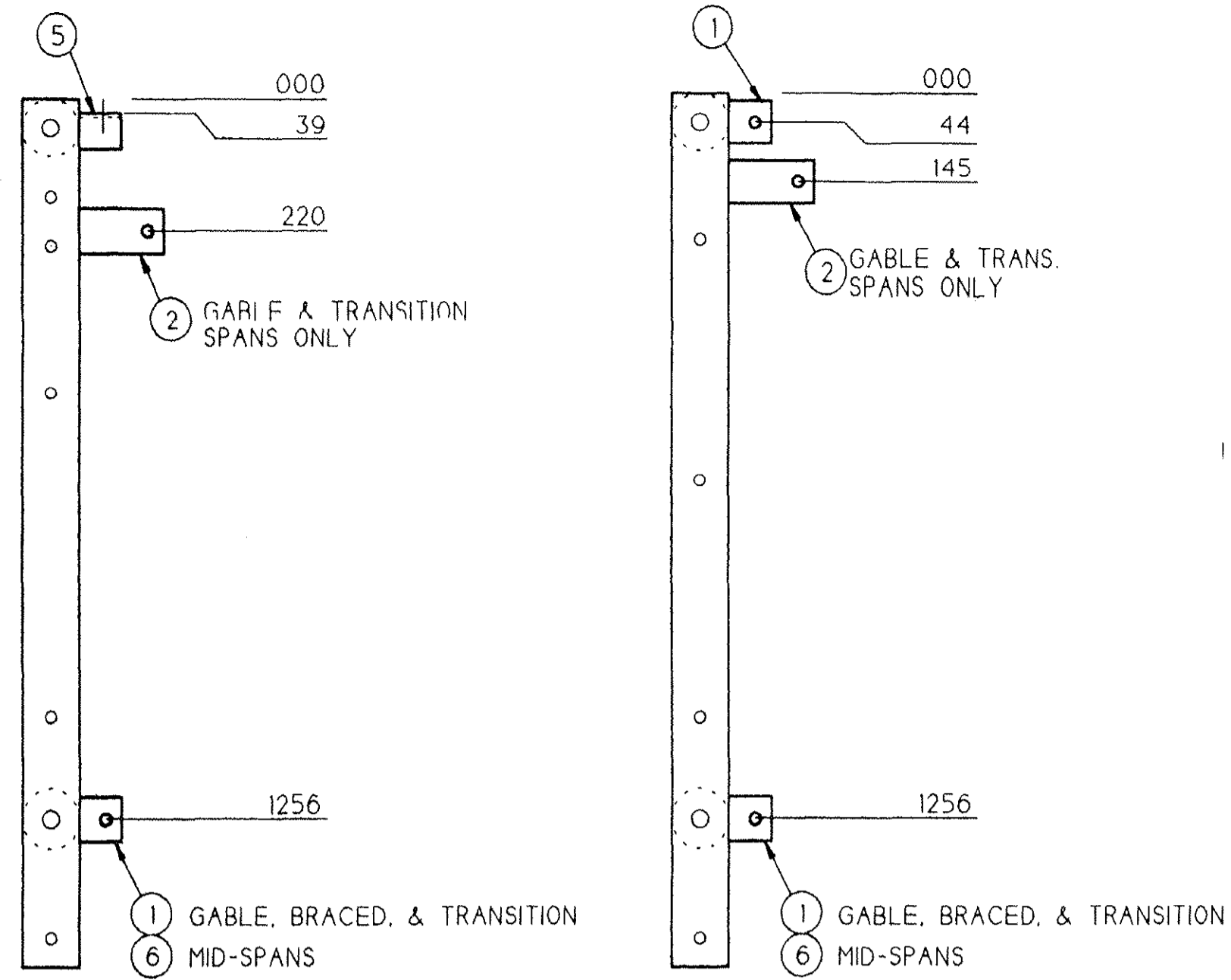
LEG BEND - TYP. GABLE LEG BEND - TYP. TRANS.

POSITION OF LUGS 1/4x SCALE POSITION OF LUGS 1/4x SCALE



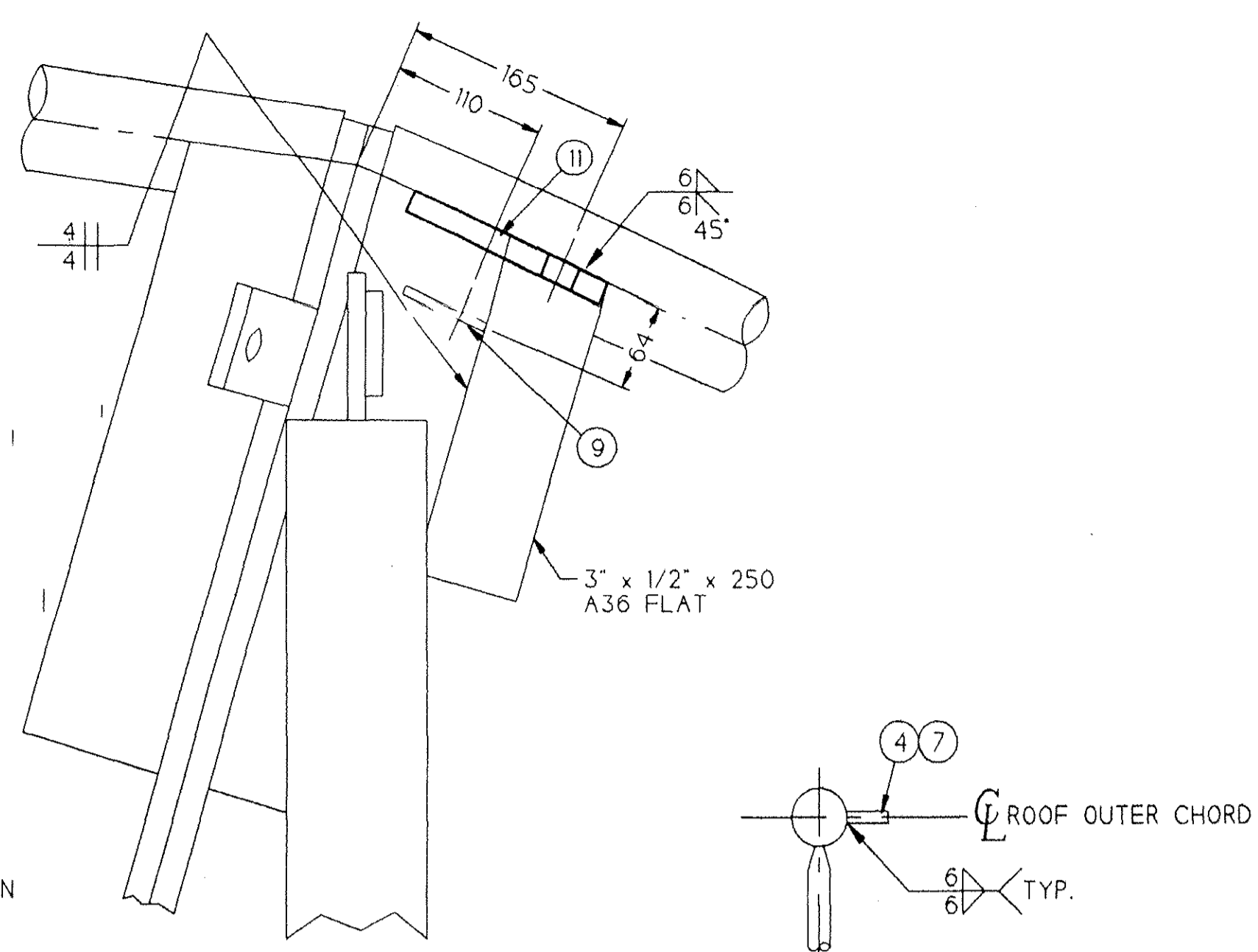
FLANGE TOP FLANGE BOTTOM

POSITION OF LUG #9 TYPICAL INTERMEDIATE APEX FLANGES ON GABLE ROOF 1/4x SCALE POSITION OF LUG #9 TYPICAL PEAK FLANGES ON GABLE ROOF 1/4x SCALE



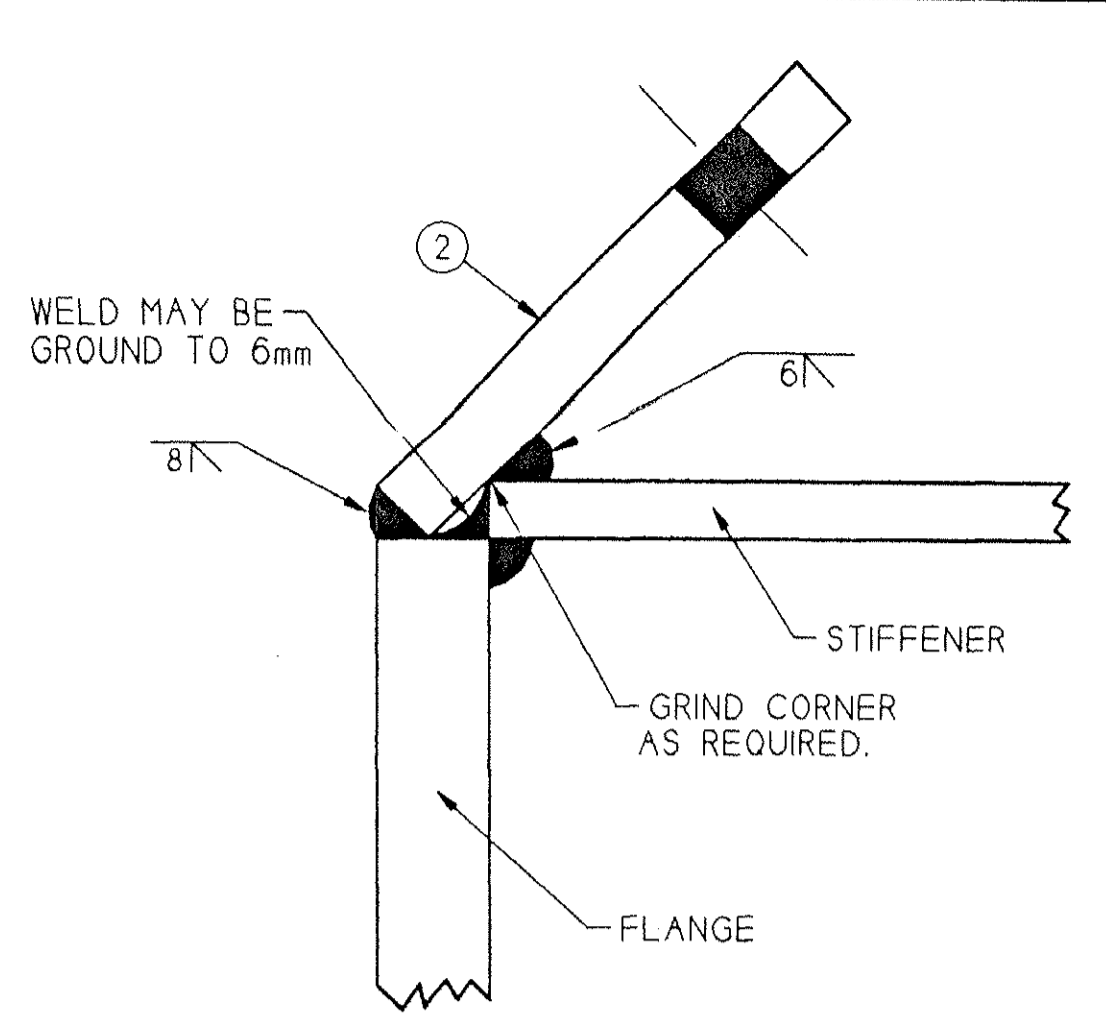
PEAK FLANGE LUGS FLANGE LUGS

NOT TO SCALE NOT TO SCALE



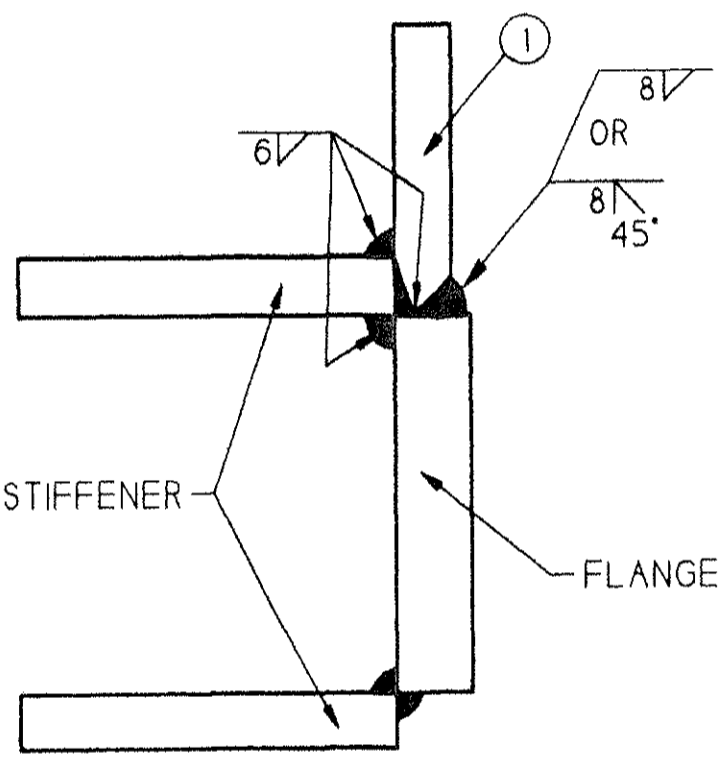
FLANGE TOP ROOF LUG LOCATION

POSITION OF LUGS 9 & 11 LOWER INTERMEDIATE APEX FLANGES ON GABLE ROOF 1/2x SCALE



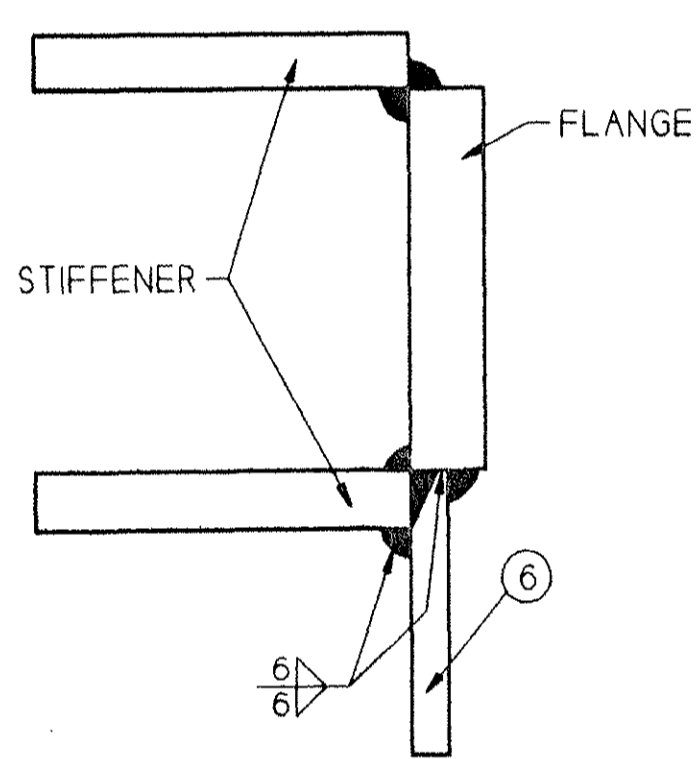
FLANGE CABLE LUG

SEE LAYOUT FOR ANGLES (NOT TO SCALE)



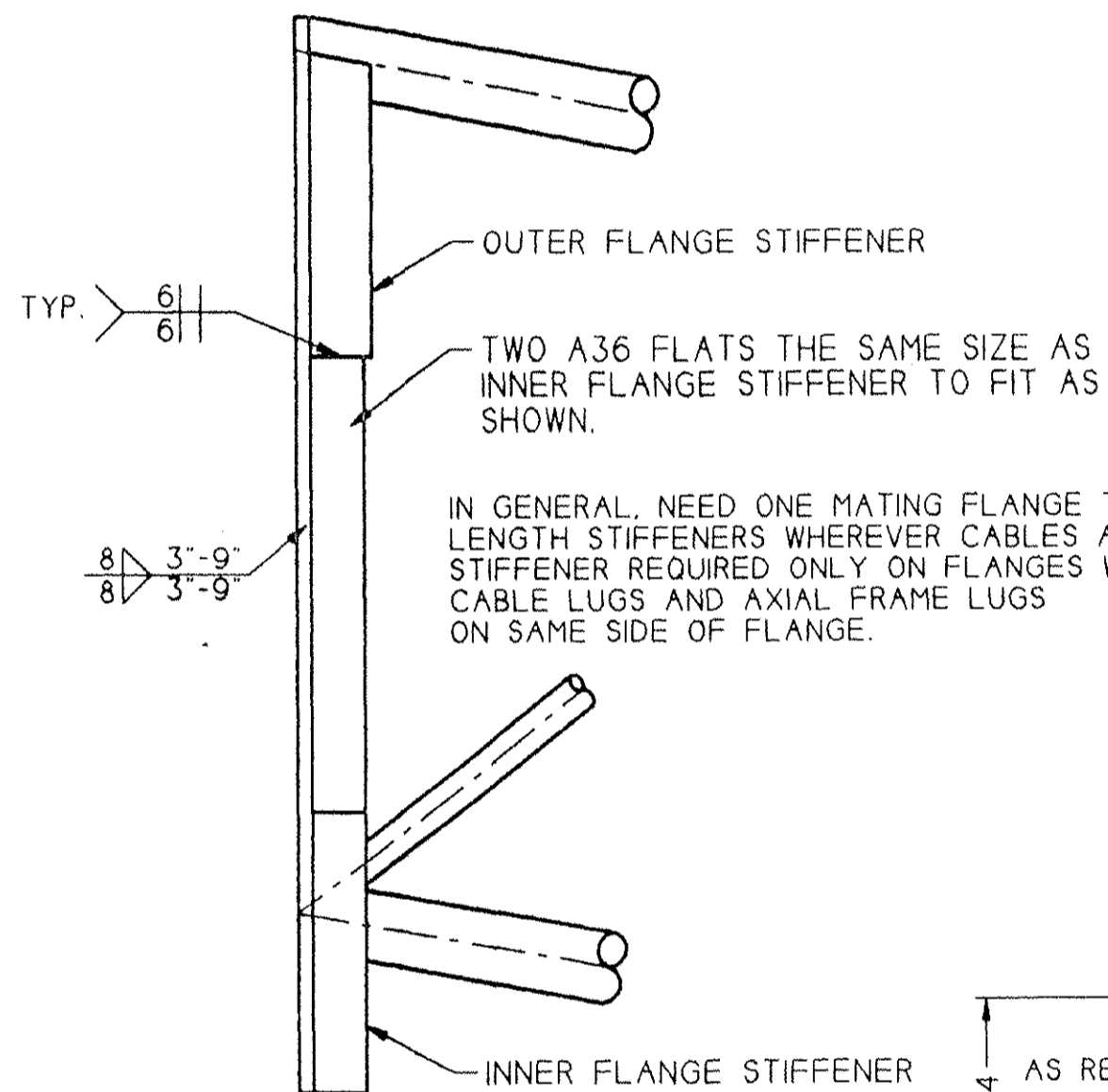
FLANGE LUG WELDING DETAIL

(NOT TO SCALE)



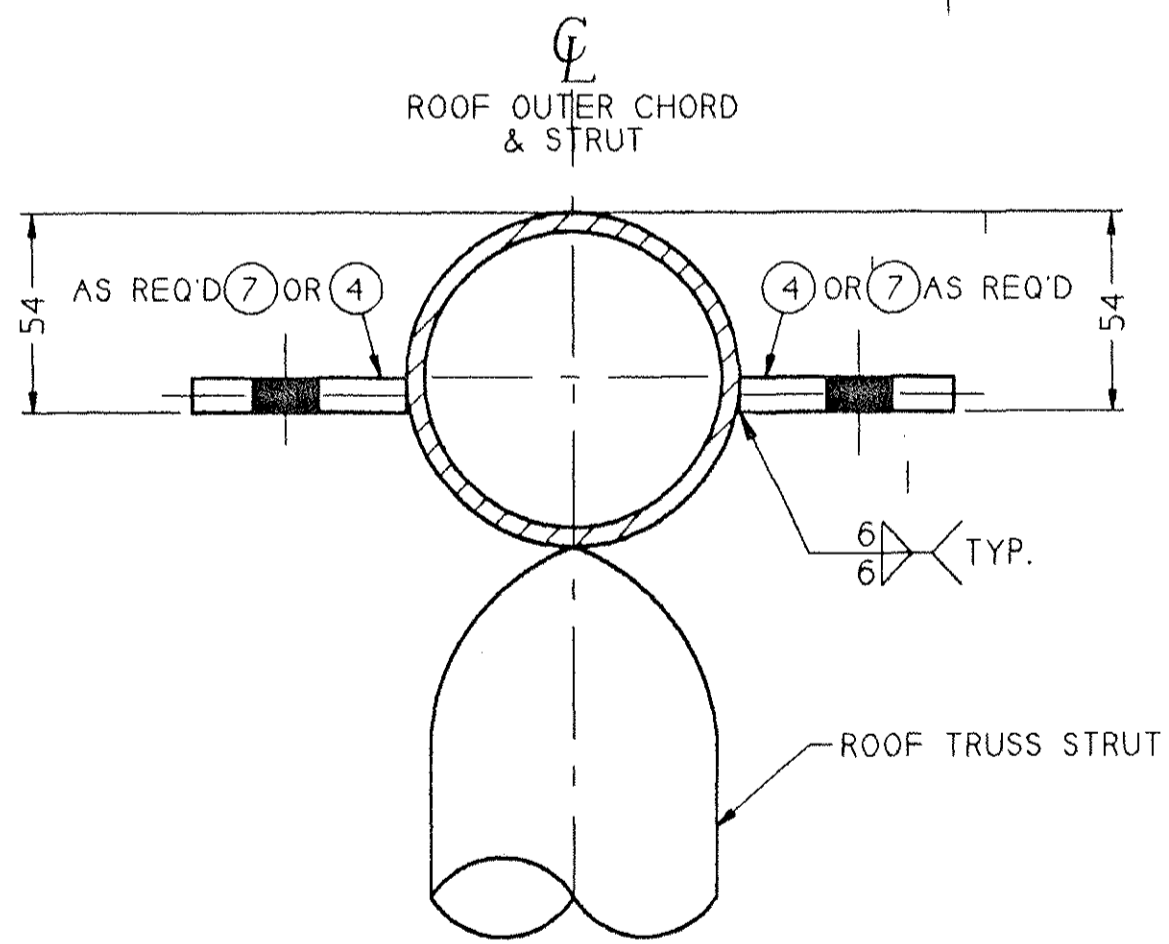
FLANGE LUG WELDING DETAIL

(NOT TO SCALE)



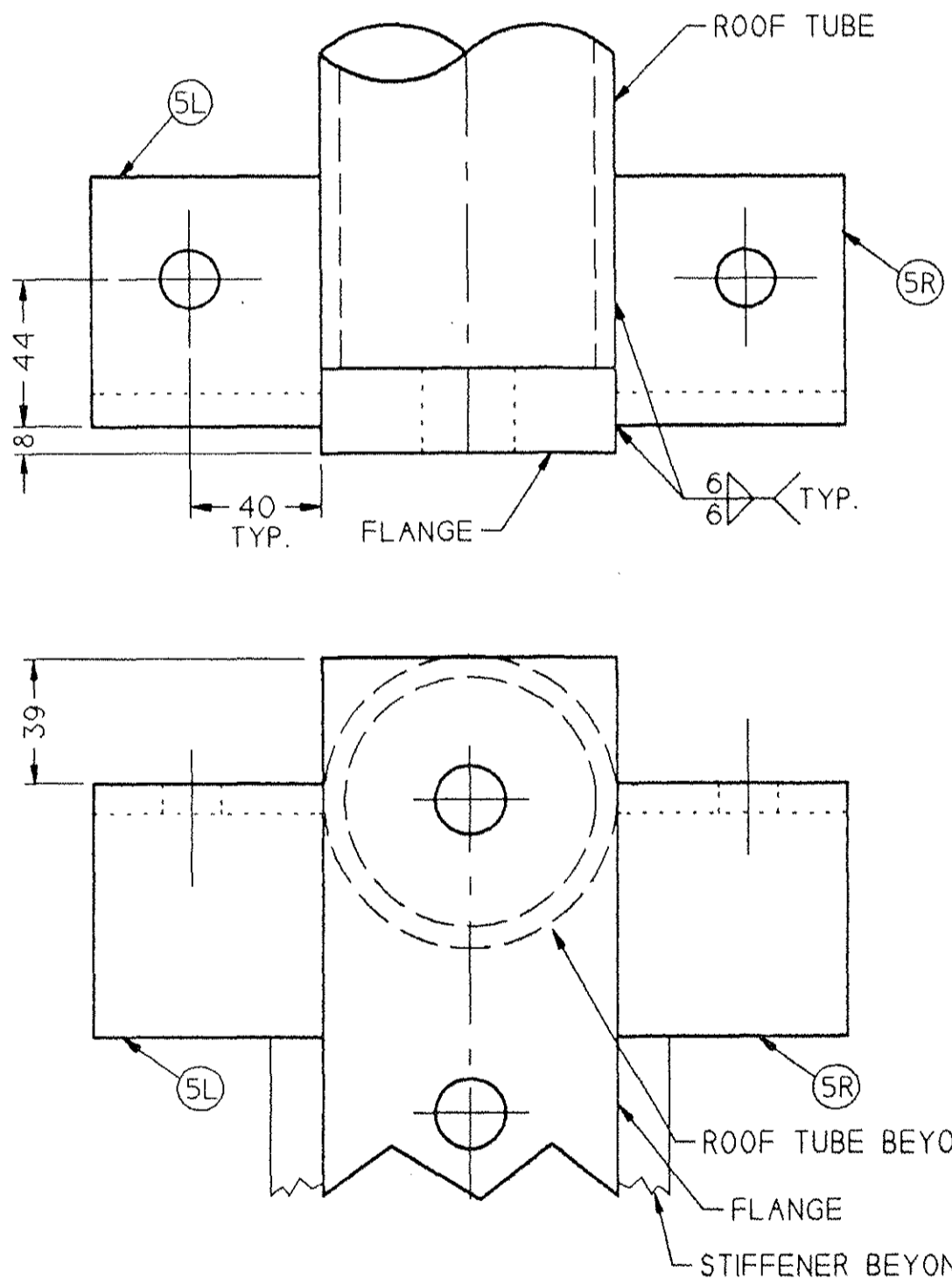
FLANGE STIFFENER

NOT TO SCALE



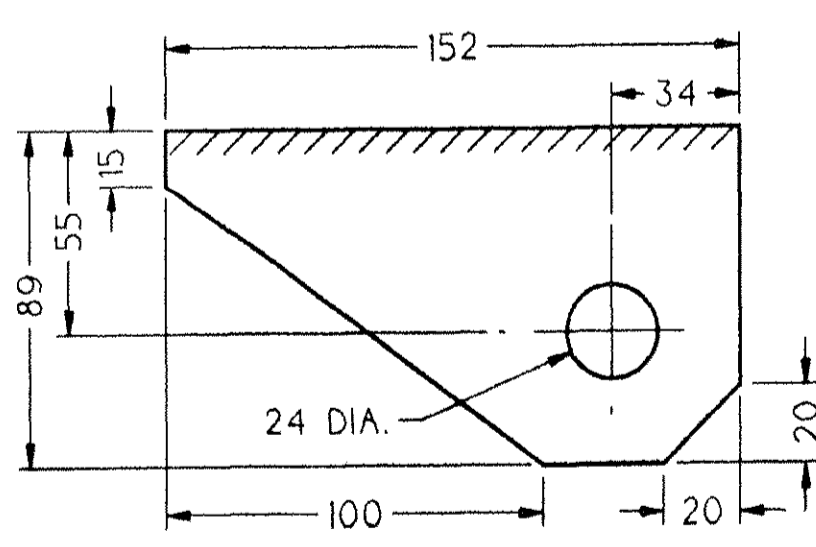
VALLEY LOWER ROOF

SPECIAL LUG LOCATION FOR ASSEMBLIES G5F, G5R, G7F, G7R, B5, T12 & T13 ONLY.



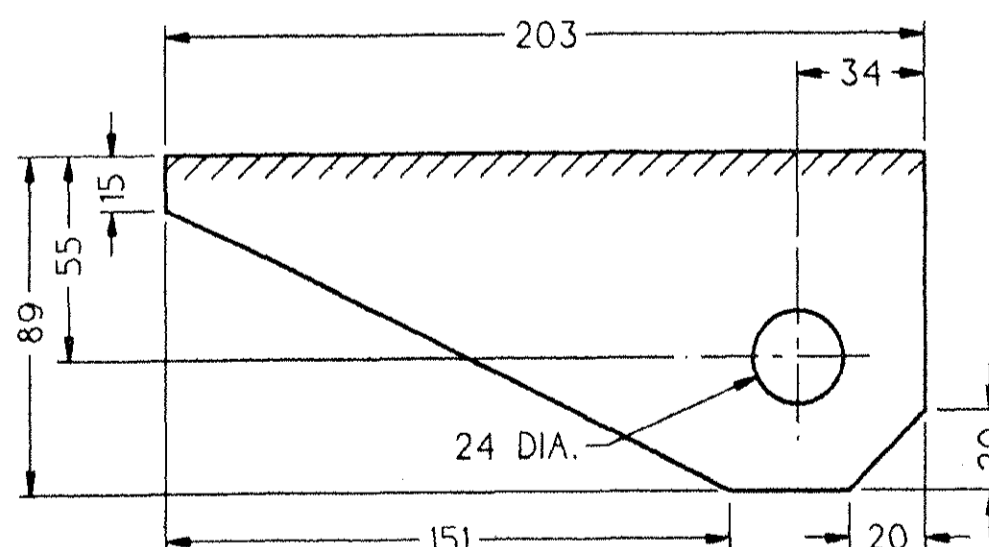
PEAK FLANGE LUG WELDING DETAIL

TOP OF FLANGE



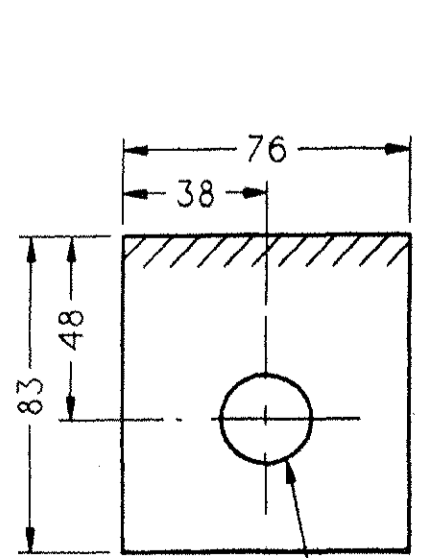
ITEM #11 CABLE LUG (LEG BEND)

5/8" THICK



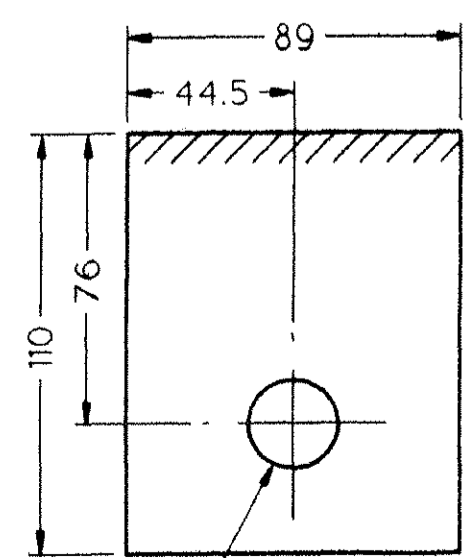
ITEM #13 CABLE LUG (LEG BEND)

5/8" THICK



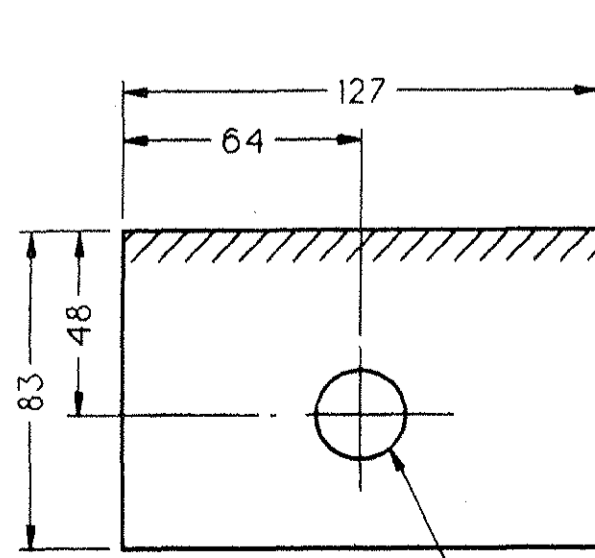
ITEM #1 AX. FR. & TUBE (FLANGE)

5/8" THICK



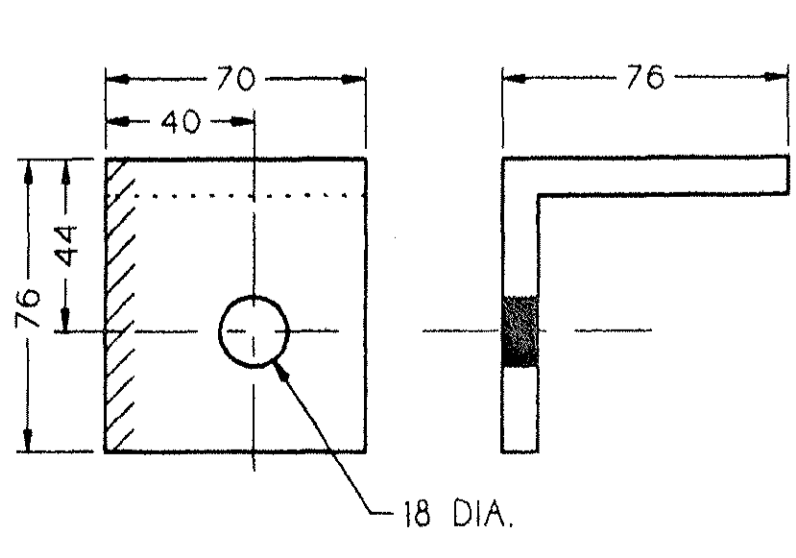
ITEM #2 CABLE LUG (FLANGE)

5/8" THICK



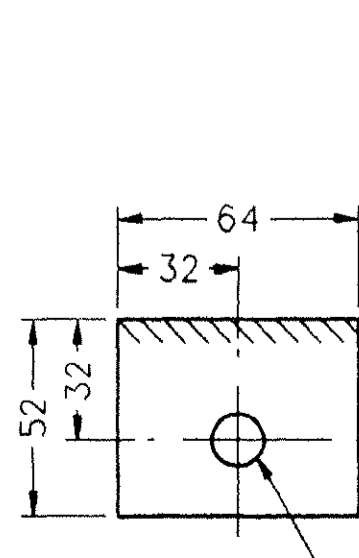
ITEM #4 NON-APEX COMP. TUBE

5/8" THICK



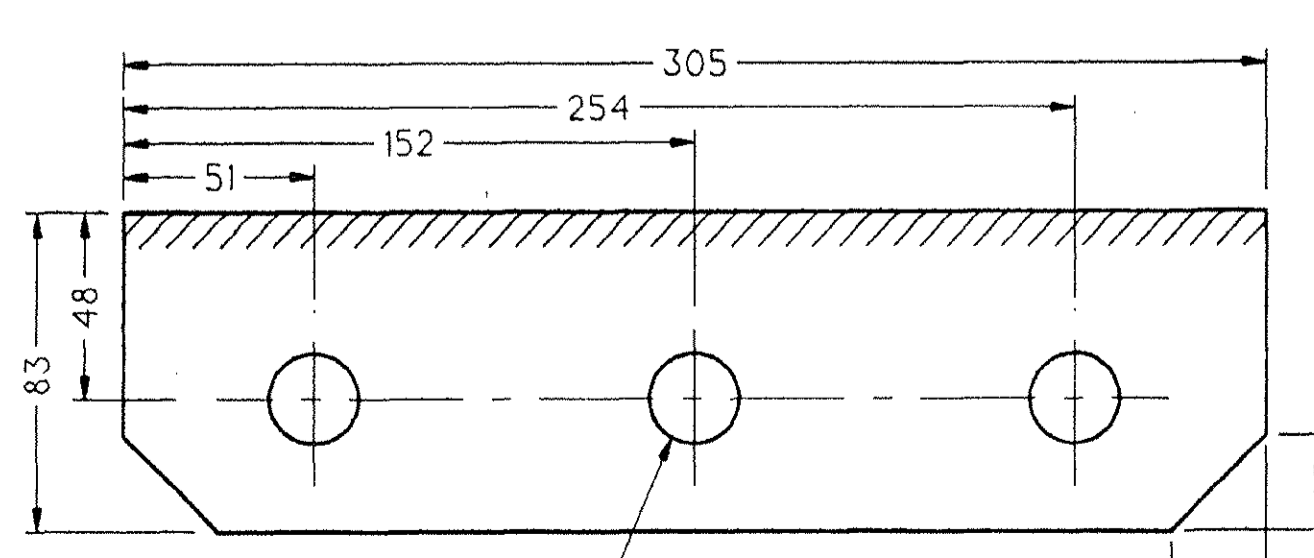
ITEM #5 LEFT HAND SHOWN RIGHT HAND OPPOSITE PEAK AX. FRAME (FLANGE)

3/8" THICK



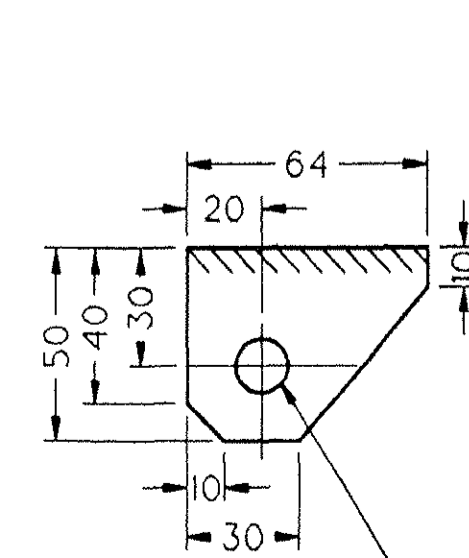
ITEM #6 UNDERGIRT (FLANGE)

1/4" THICK



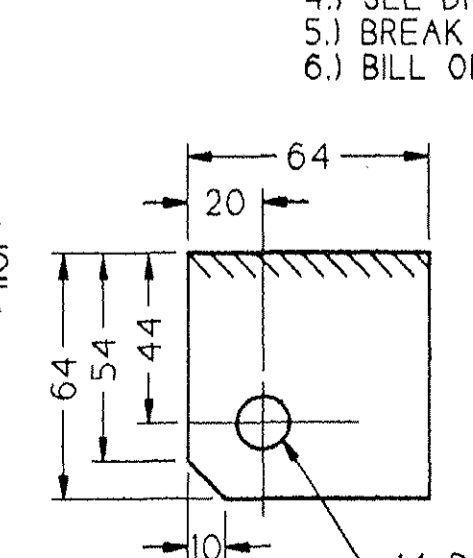
ITEM #7 MID-ROOF (NON-APEX) CABLE LUG

5/8" THICK



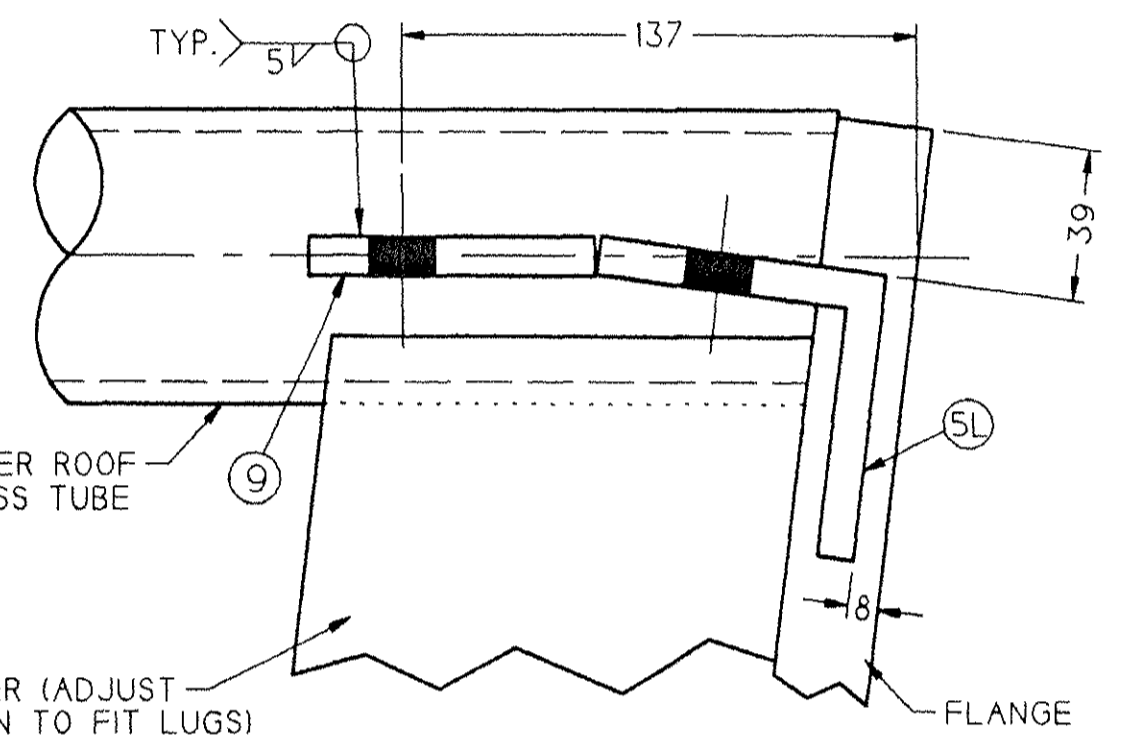
ITEM #9 NODE RESTRAINT (ROOF)

3/8" THICK

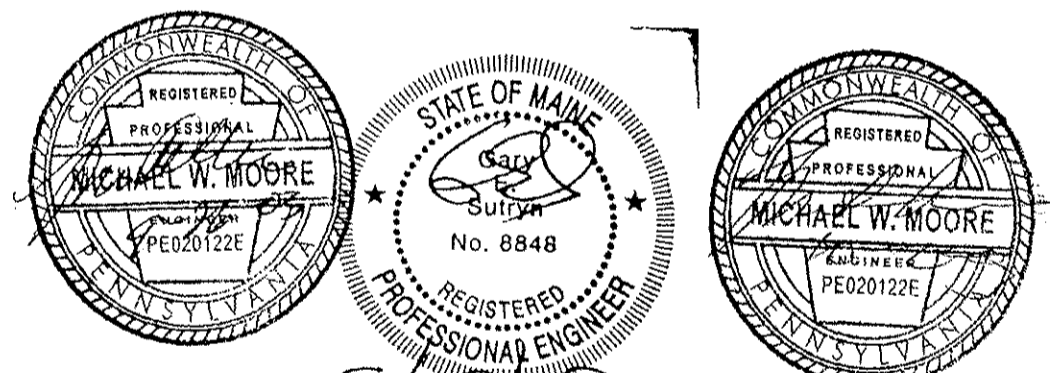


ITEM #10 NODE RESTRAINT

3/8" THICK



DETAIL "A" NODE RESTRAINT LUG AND PEAK AXIAL FRAME LUG LOCATION FROM APEX



ITEM	QTY.	LOCATION	DESCRIPTION	SPEC.
1	*	FLANGE TOP & BOT. UNLESS NOTED	FLAT 3" x 5/8" x 83	A36
2	110	FLANGE TOP ONLY	FLAT 3 1/2" x 5/8" x 110	A36
3				
4	96	ROOF TUBE TOP	FLAT 5" x 5/8" x 83	A36
5	*	PEAK ROOF FLANGE TOP ONLY	ANGLE 3" x 3" x 3/8" x 70	A36
6	*	FLANGE BOT. & ROOF TUBE BOT.	FLAT 2 1/2" x 1/4" x 52	A36
7	48	ROOF TUBE TOP	FLAT 12" x 5/8" x 83	A36
8				
9	136	TUBE TOP & BOT. UNLESS NOTED	FLAT 2 1/2" x 3/8" x 50	A36
10	8	LEG BEND	FLAT 2 1/2" x 3/8" x 64	A36
11	20	LEG BEND	FLAT 3 1/2" x 5/8" x 152	A36
12				
13	12	LEG BEND	FLAT 3 1/2" x 5/8" x 203	A36

* DETERMINED BY BUILDING LENGTH

- NOTES:
- SEE DRAWINGS 37857, 37858, 37860 & 37861 FOR ROOF TRUSS DETAILS.
 - SEE DRAWING 37856 & 37859 FOR LEG TRUSS DETAILS.
 - SEE DRAWING 11006 FOR GENERAL WELDING NOTES.
 - SEE DRAWING 37884 FOR LUG SCHEMATICS.
 - BREAK SHARP CORNERS FOR PVC.
 - BILL OF MATERIALS IS FOR TOTAL QUANTITY REQUIRED.

REV.	DESCRIPTION	DRAWN	APP.	DATE
A	ADDED VALLEY LOWER ROOF SPECIAL LUG LOCATION DETAIL	KV	GES	8/23/03

WE COVER THE WORLD
RUBB BUILDING SYSTEMS

33.5m BVE BILINK / 7m LEG LUG SCHEMATIC DETAILS

SCALE: 1 : 2

DATE: 8-18-03 JOB #: 03088

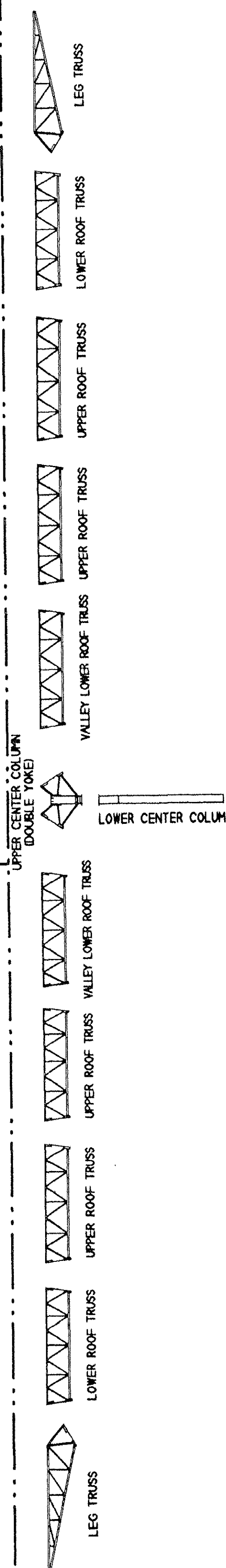
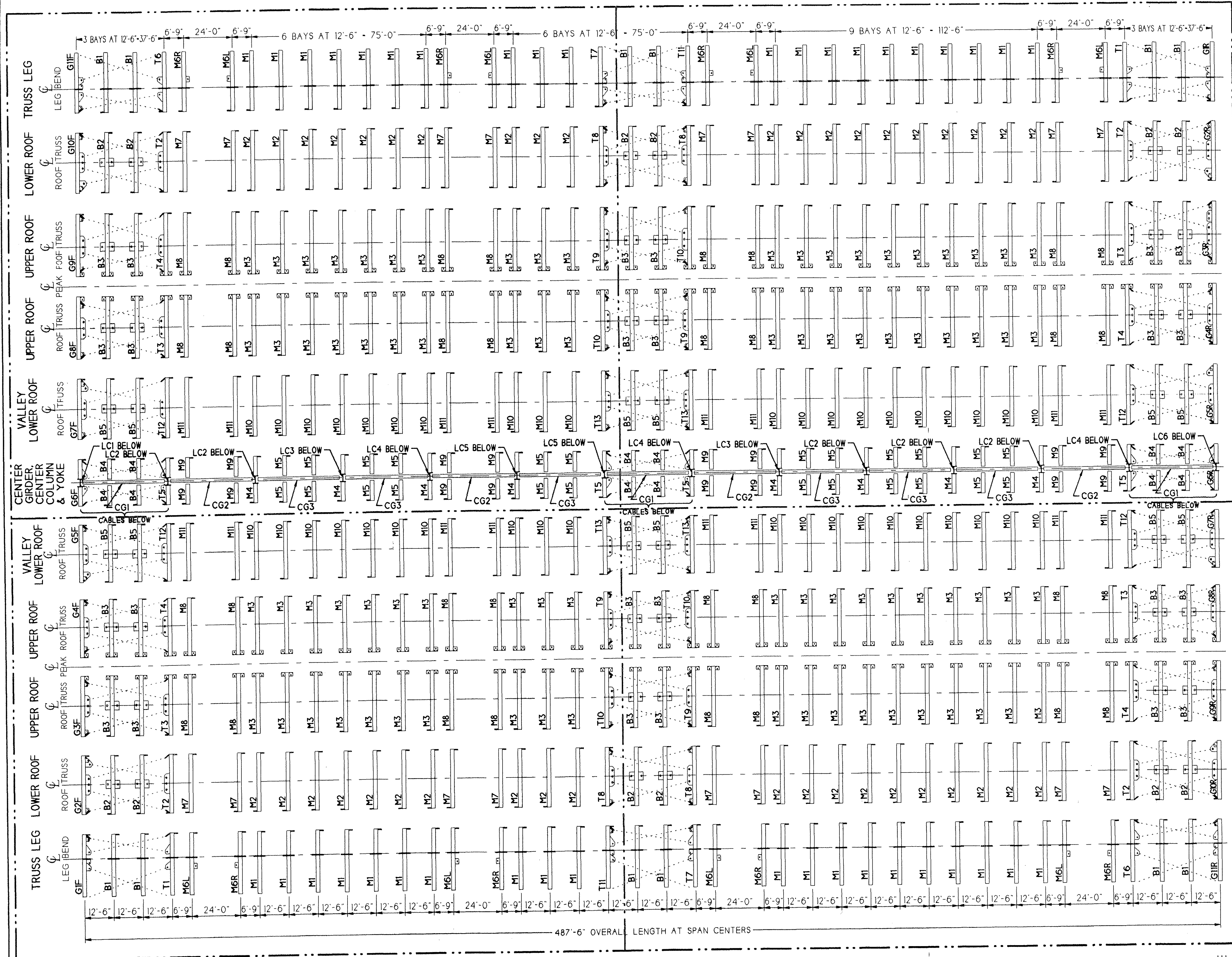
RUBB, INC. SANFORD MAINE 04073
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37885

SOUTHWEST LUG SCHEMATIC
DRAWING 37884

LAND SIDE

NORTHWEST LUG SCHEMATIC
DRAWING 37929



ITEM	QTY.	DESCRIPTION	DRAWING
G1F	1	FRONT GABLE LEG TRUSS	37856
G2F	1	FRONT GABLE LOWER ROOF TRUSS	37857
G3F	1	FRONT GABLE UPPER ROOF TRUSS	37858
G4F	1	FRONT GABLE UPPER ROOF TRUSS	37858
G5F	1	FRONT GABLE LOWER VALLEY ROOF TRUSS	37949
G6F	1	FRONT GABLE UPPER CENTER COLUMN	37879
G7F	1	FRONT GABLE LOWER VALLEY ROOF TRUSS	37949
G8F	1	FRONT GABLE UPPER ROOF TRUSS	37858
G9F	1	FRONT GABLE UPPER ROOF TRUSS	37858
G10F	1	FRONT GABLE LOWER ROOF TRUSS	37857
G11F	1	FRONT GABLE LEG TRUSS	37856
B1	12	BRACED LEG TRUSS	37856
B2	12	BRACED LOWER ROOF TRUSS	37857
B3	24	BRACED UPPER ROOF TRUSS	37858
B4	12	BRACED SINGLE YOKE	37878
B5	12	BRACED LOWER VALLEY ROOF TRUSS	37949
T1	2	TRANSITION LEG TRUSS	37856
T2	4	TRANSITION LOWER ROOF TRUSS	37857
T3	4	TRANSITION UPPER ROOF TRUSS	37858
T4	4	TRANSITION UPPER ROOF TRUSS	37858
T5	4	TRANSITION UPPER CENTER COLUMN	37879
T6	2	TRANSITION LEG TRUSS	37856
T7	2	TRANS. LEG TRUSS WITH NODE LUGS	37856
T8	4	TRANSITION LOWER ROOF WITH NODE LUGS	37857
T9	4	TRANSITION UPPER ROOF WITH NODE LUGS	37858
T10	4	TRANSITION UPPER ROOF WITH NODE LUGS	37858
T11	2	TRANS. LEG TRUSS WITH NODE LUGS	37856
T12	4	TRANSITION LOWER VALLEY ROOF	37949
T13	4	TRANSITION LOWER VALLEY ROOF w/ NODE LUGS	37949
M1	40	MID LEG TRUSS	37856
M2	40	MID LOWER ROOF TRUSS	37857
M3	80	MID UPPER ROOF TRUSS	37858
M4	8	MID UPPER CENTER COLUMN	37879
M5	24	MID SINGLE YOKE	37878
M6	8L/8R	MID LEG TRUSS - 24'-0" BAY	37859
M7	16	MID LOWER ROOF TRUSS - 24'-0" BAY	37860
M8	32	MID UPPER ROOF TRUSS - 24'-0" BAYS	37861
M9	16	MID SINGLE YOKE - 24'-0" BAY	37862
M10	40	MID LOWER VALLEY ROOF TRUSS	37949
M11	16	MID LOWER VALLEY ROOF TRUSS - 24'-0" BAYS	37950
G1R	1	REAR GABLE LOWER ROOF TRUSS	37857
G3R	1	REAR GABLE UPPER ROOF TRUSS	37858
G4R	1	REAR GABLE UPPER ROOF TRUSS	37858
G5R	1	REAR GABLE LOWER VALLEY ROOF TRUSS	37949
G6R	1	REAR GABLE UPPER CENTER COLUMN	37879
G7R	1	REAR GABLE LOWER VALLEY ROOF TRUSS	37949
G8R	1	REAR GABLE UPPER ROOF TRUSS	37858
G9R	1	REAR GABLE UPPER ROOF TRUSS	37858
G10R	1	REAR GABLE LOWER ROOF TRUSS	37857
G11R	1	REAR GABLE LEG TRUSS	37856
LC1	1	FRONT GABLE LOWER CENTER COL. - SPAN #1	37905
LC2	5	NON-GABLE LOWER CENT. COL. - #4,7,28,31,34	37905
LC3	2	NON-GABLE LOWER CENTER COL. - #10 & 25	37905
LC4	3	NON-GABLE LOWER CENTER COL. - #13, 22, 37	37905
LC5	2	NON-GABLE LOWER CENTER COL. - #16 & 19	37905
LC6	1	REAR GABLE LOWER CENTER COL. - SPAN #40	37905
CG1	3	37'-6" BRACED CENTER GIRDER	37883
CG2	4	37'-6" MID CENTER GIRDER - 24'-0" BAYS	37883
CG3	6	37'-6" MID CENTER GIRDER	37947

FRONT GABLE SPAN #1
BRACED SPAN #2
BRACED SPAN #3
TRANS. SPAN #4
MID SPAN #5
MID SPAN #6
MID SPAN #7
MID SPAN #8
MID SPAN #9
MID SPAN #10
MID SPAN #11
MID SPAN #12
MID SPAN #13
MID SPAN #14
MID SPAN #15
MID SPAN #16
MID SPAN #17
MID SPAN #18
TRANS. SPAN #19
BRACED SPAN #20
BRACED SPAN #21
TRANS. SPAN #22
MID SPAN #23
MID SPAN #24
MID SPAN #25
MID SPAN #26
MID SPAN #27
MID SPAN #28
MID SPAN #29
MID SPAN #30
MID SPAN #31
MID SPAN #32
MID SPAN #33
MID SPAN #34
MID SPAN #35
MID SPAN #36
TRANS. SPAN #37
BRACED SPAN #38
BRACED SPAN #39
REAR GABLE SPAN #40

SOUTHEAST LUG SCHEMATIC
DRAWING 37930

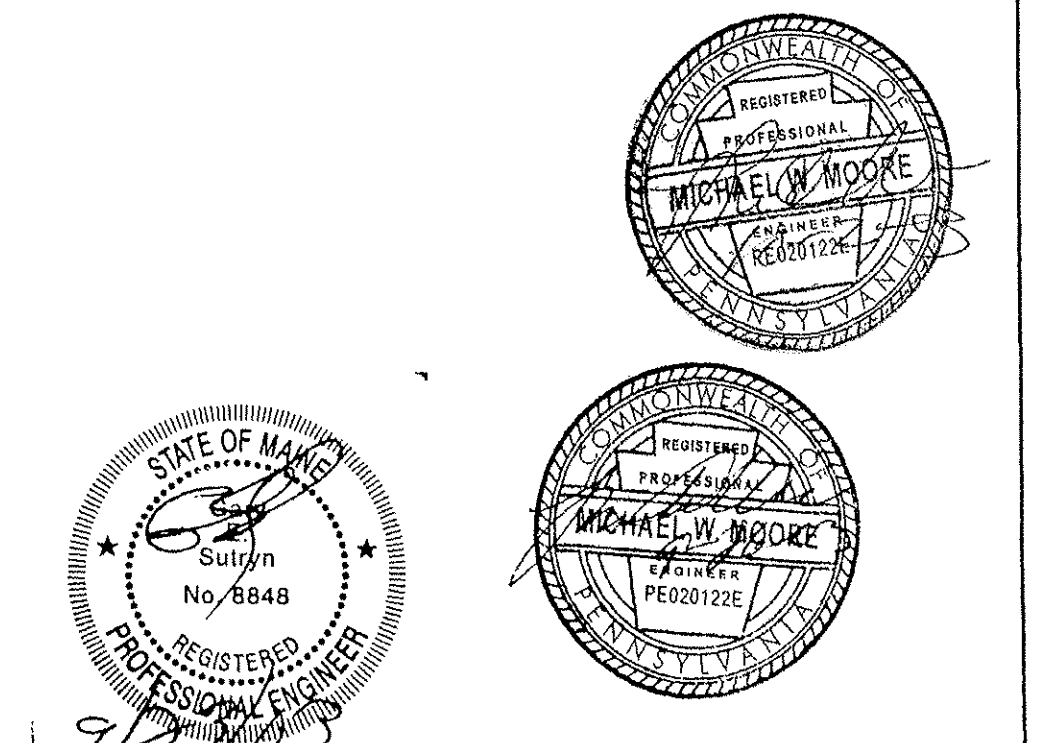
RIVER SIDE

NORTHEAST LUG SCHEMATIC
DRAWING 37931

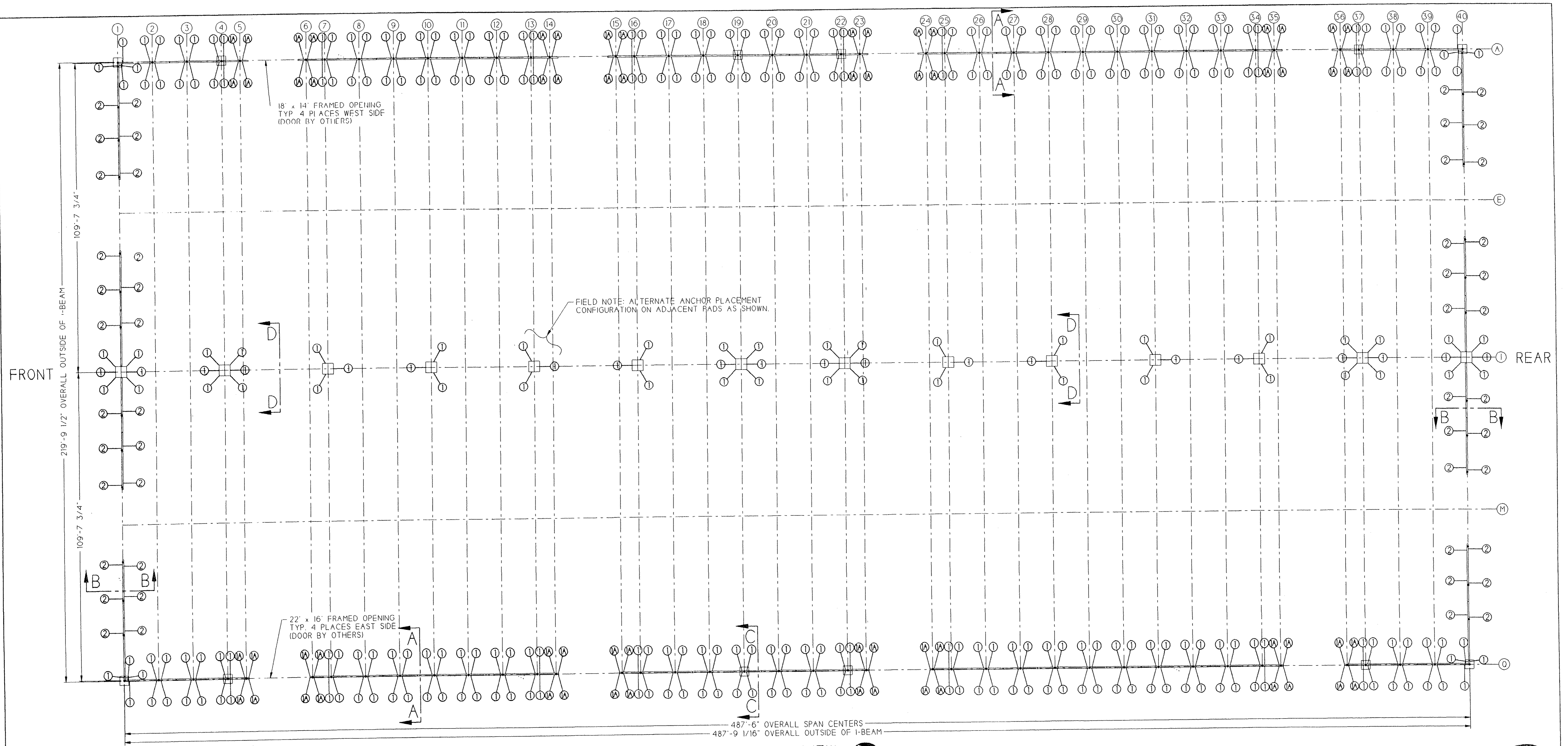
SCHEMATIC PLAN VIEW
NOT TO SCALE



- NOTES:
1.) BILL OF MATERIAL IS FOR TOTAL QUANTITY REQUIRED.
2.) SEE DRAWING 37885 FOR LUG SCHEMATIC DETAILS.
3.) SEE DRAWING 37952 FOR WIND BRACING CABLE ISOMETRIC.
4.) SEE DRAWING 37953 FOR NODE RESTRAINT ISOMETRIC.



B	CHANGED QTY. OF LC1 & LC2 AND ADDED LC3 - LC6	AR	9/17/03	
A	RELOCATED DOOR BAYS	KV	6-9-03	
REV	DESCRIPTION	DRAWN	APP.	DATE
We Cover The World		33.5m BVE BILINK / 7m LEG STEEL LAYOUT		
RUBB		BUILDING SYSTEMS		
DRAWN	KV 8-17-03	SCALE	1 : 5	
APP.	GES 8-25-03	JOB #	03088	
DATE	JMG	JOB NAME		
RUBB, INC. SANFORD MAINE 04073				37886
TEL: 207-324-2877 FAX 207-324-2347				



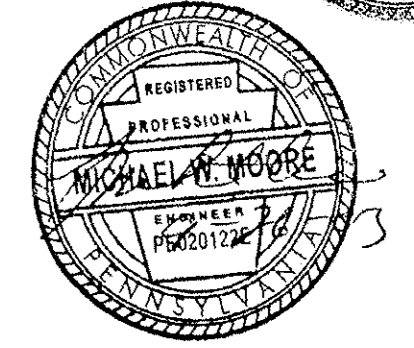
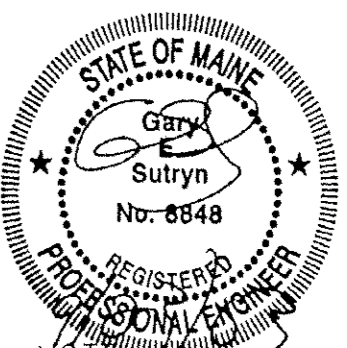
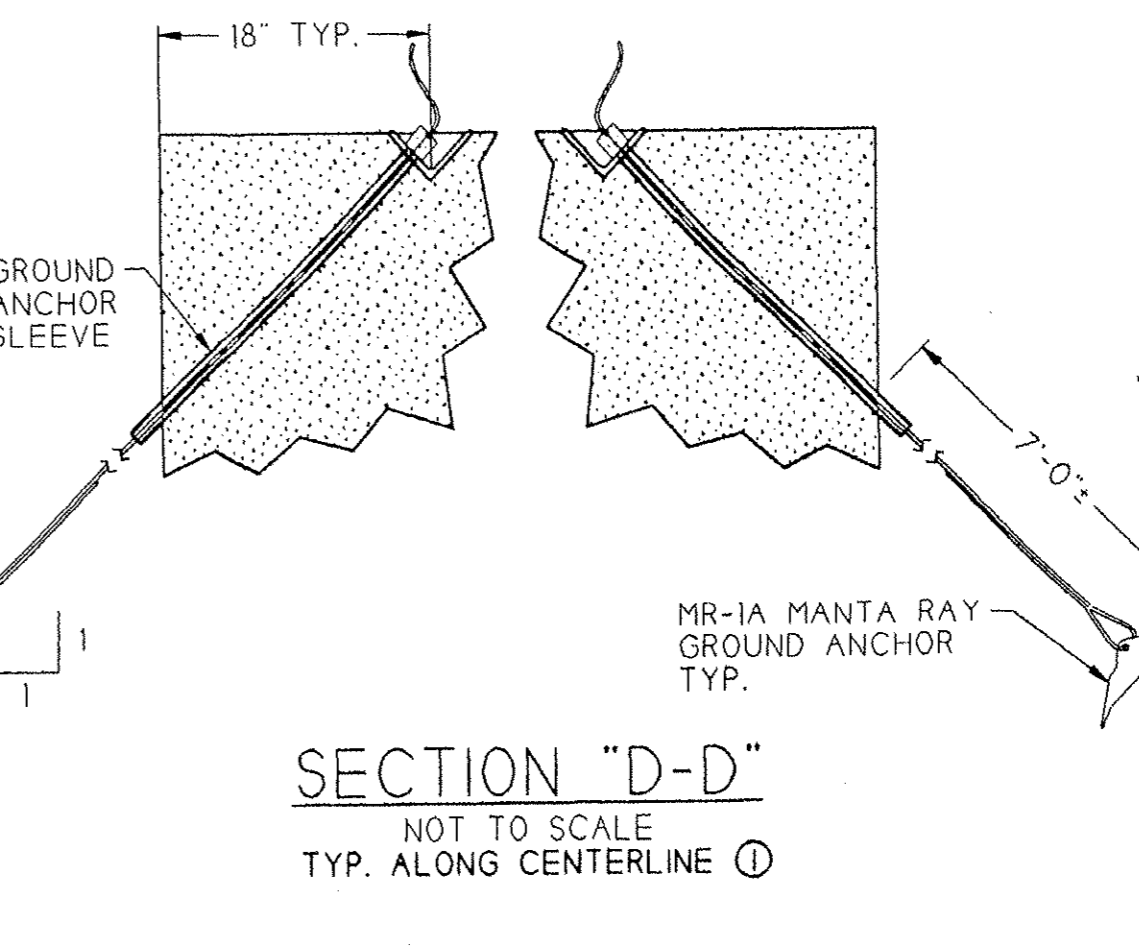
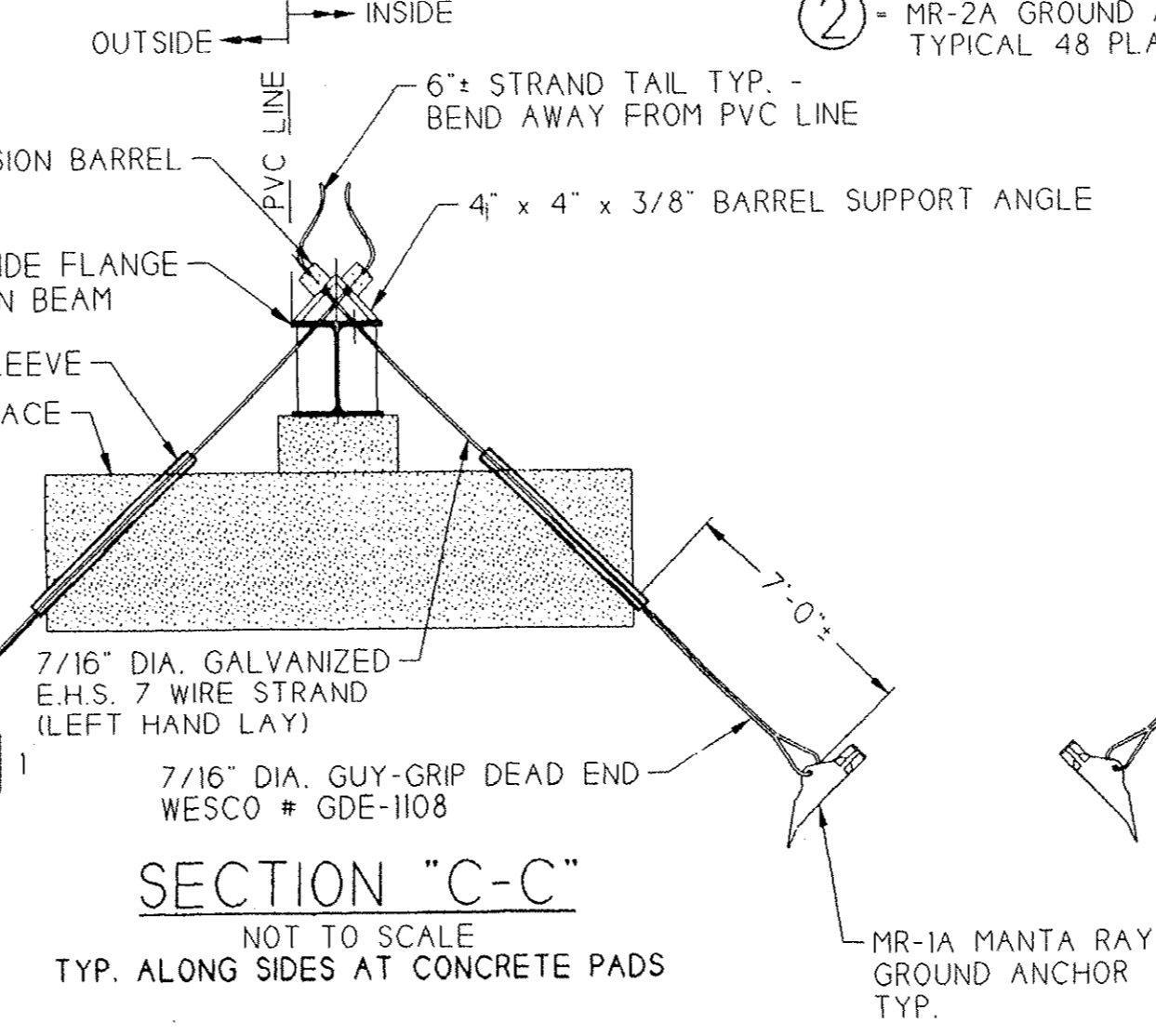
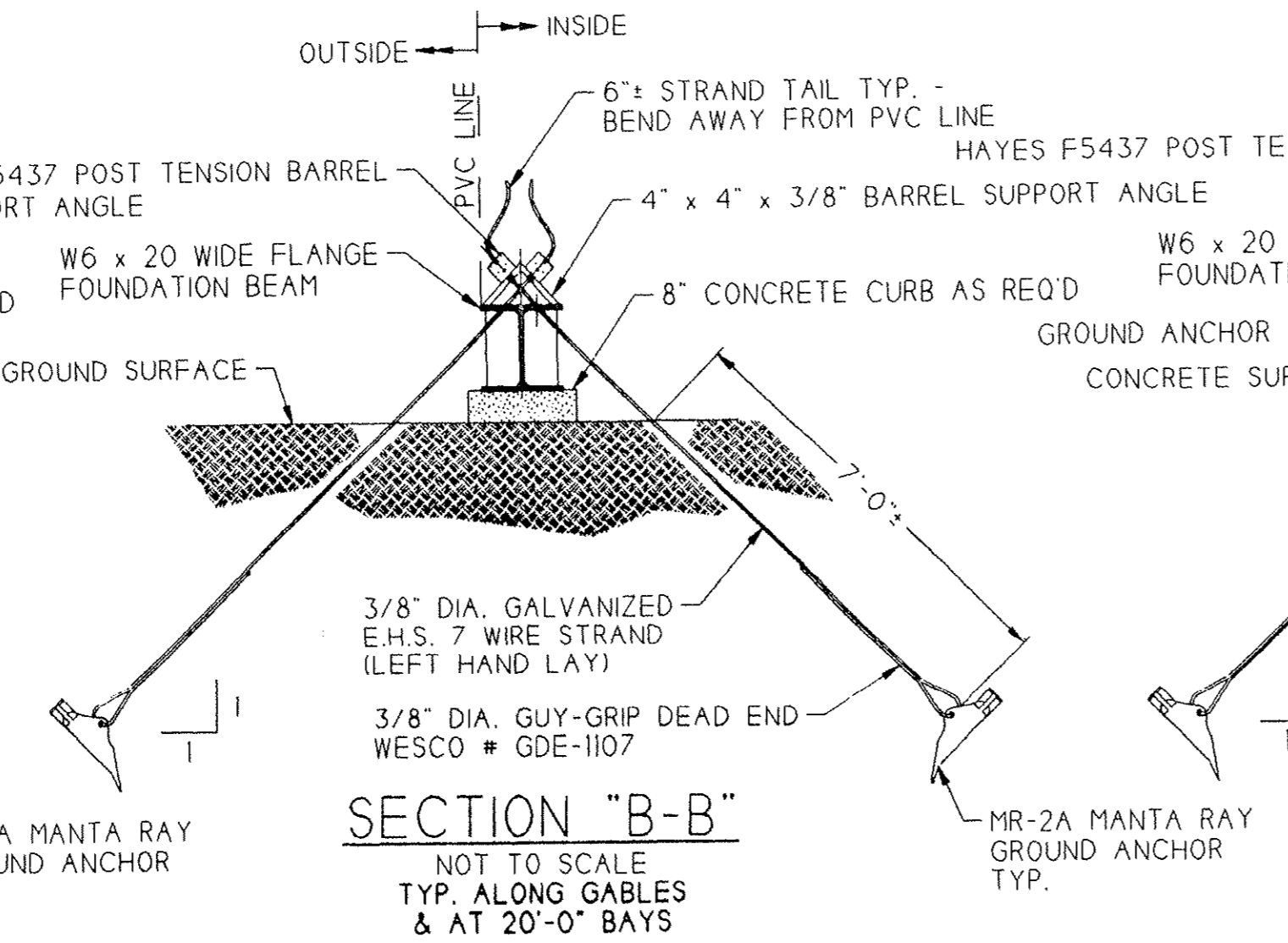
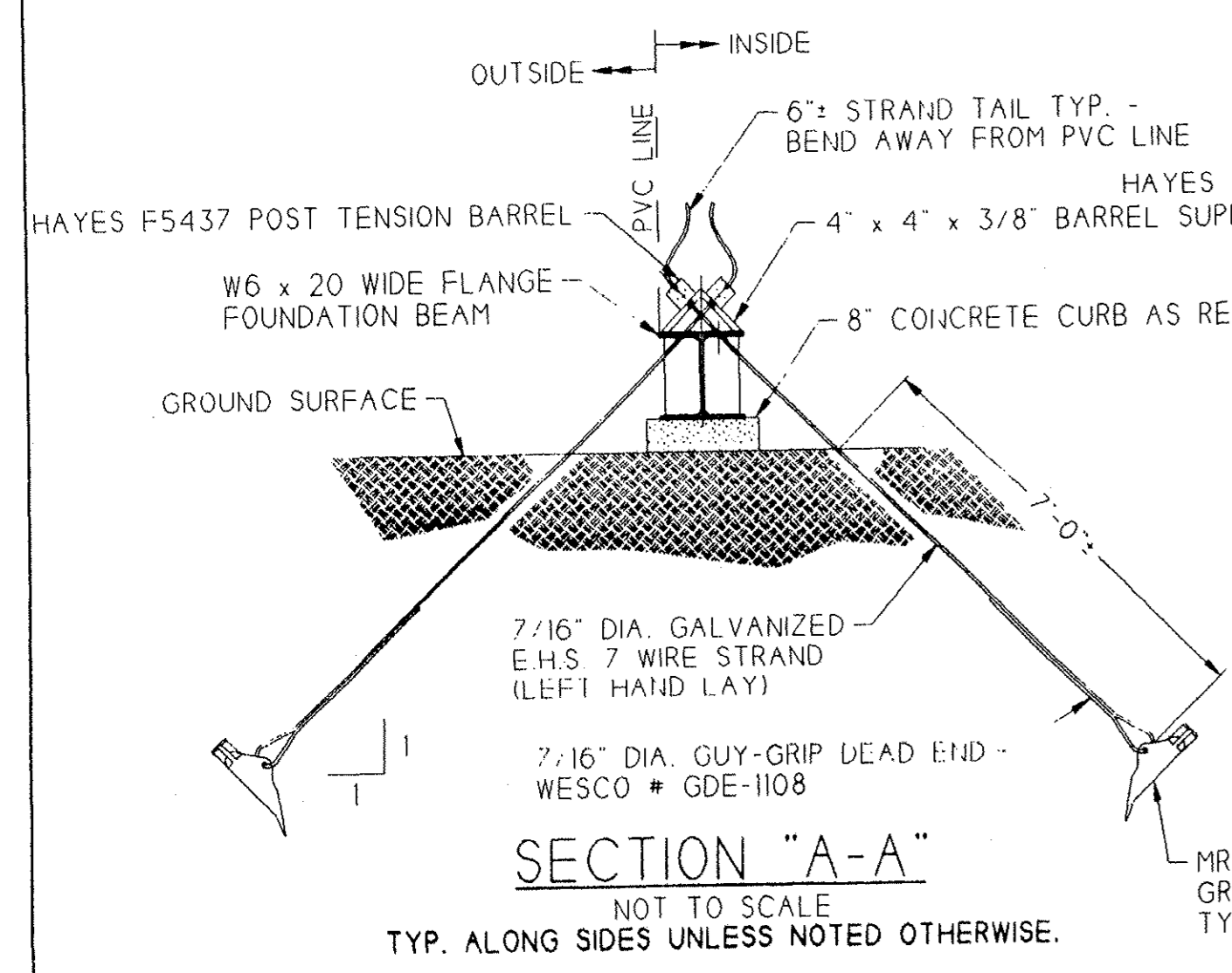
PLAN VIEW

① & ①A - MR-1A GROUND ANCHOR ASSEMBLY
TYPICAL 380 PLACES

② - MR-2A GROUND ANCHOR ASSEMBLY
TYPICAL 48 PLACES

GROUND ANCHOR PULLOUT REQUIREMENTS

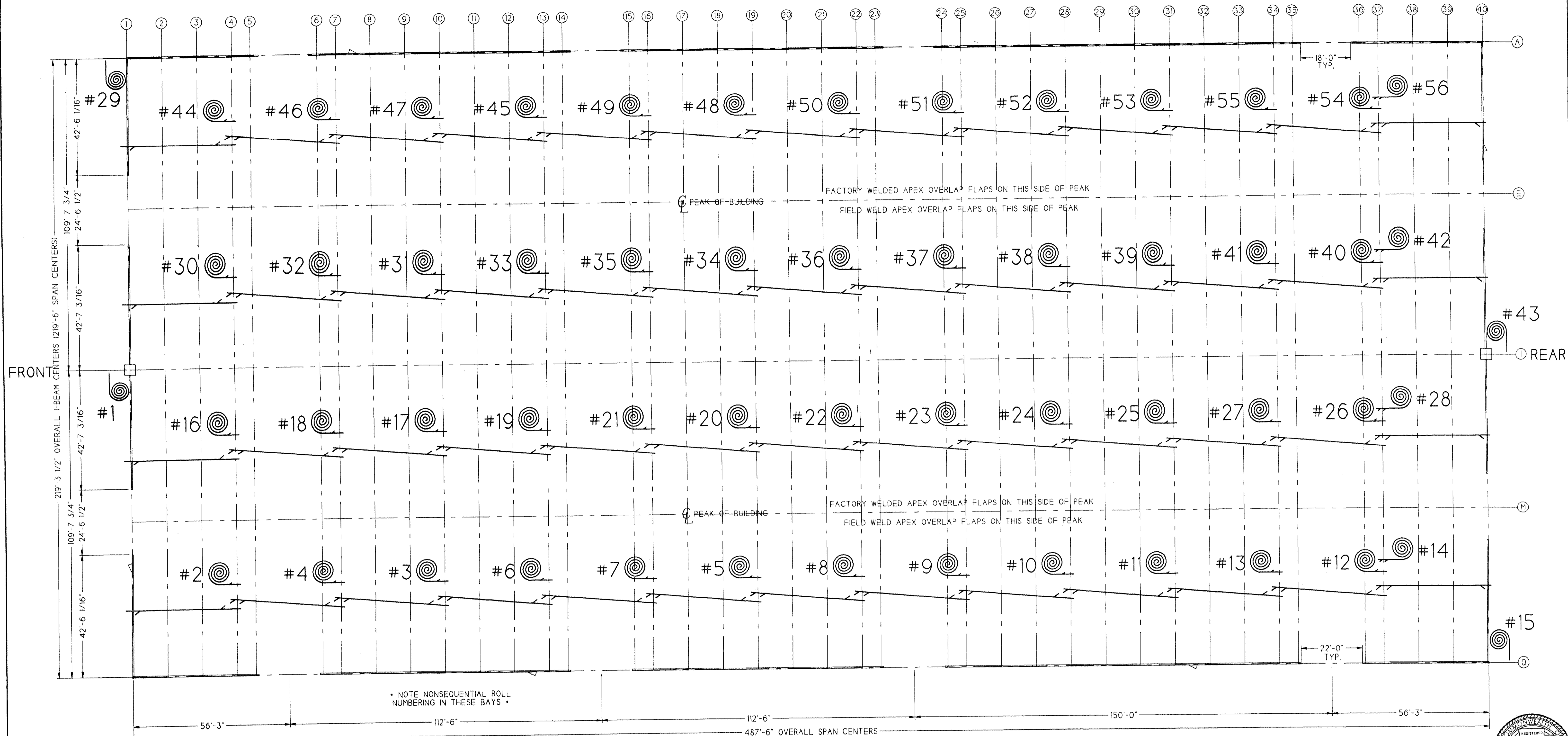
LOCATION	REQUIRED PULLOUT VALUE
①	13,000 lbs
①A	16,000 lbs
②	10,300 lbs



NOTE: SEE DRAWING 37867 FOR I-BEAM FOUNDATION LAYOUT.

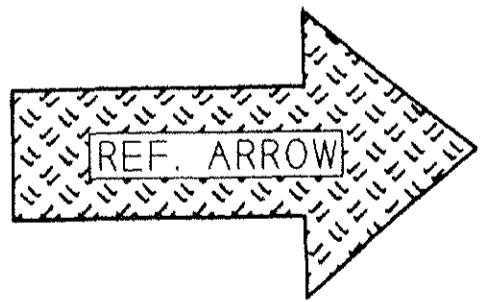
REV	DESCRIPTION	DRAWN	APP.	DATE
A	REMOVED SOME GROUND ANCHOR & ADDED SECTIONS	MJG		20 9/20/03

We Cover The World		3.3.5m BVE BILLIK 7m LEG	
RUBB		GROUND ANCHOR LAYOUT	
BUILDING SYSTEMS	SCALE	1 : 200	
DRAWN	KV 8-14-03	JOB #	03088
APP.	GES 9-09-03	JOB NAME	JMG
DATE			
RUBB, INC. SANFORD MAINE 04073			DRAWING NO.
TEL: 207-324-2877 FAX 207-324-2347			37894

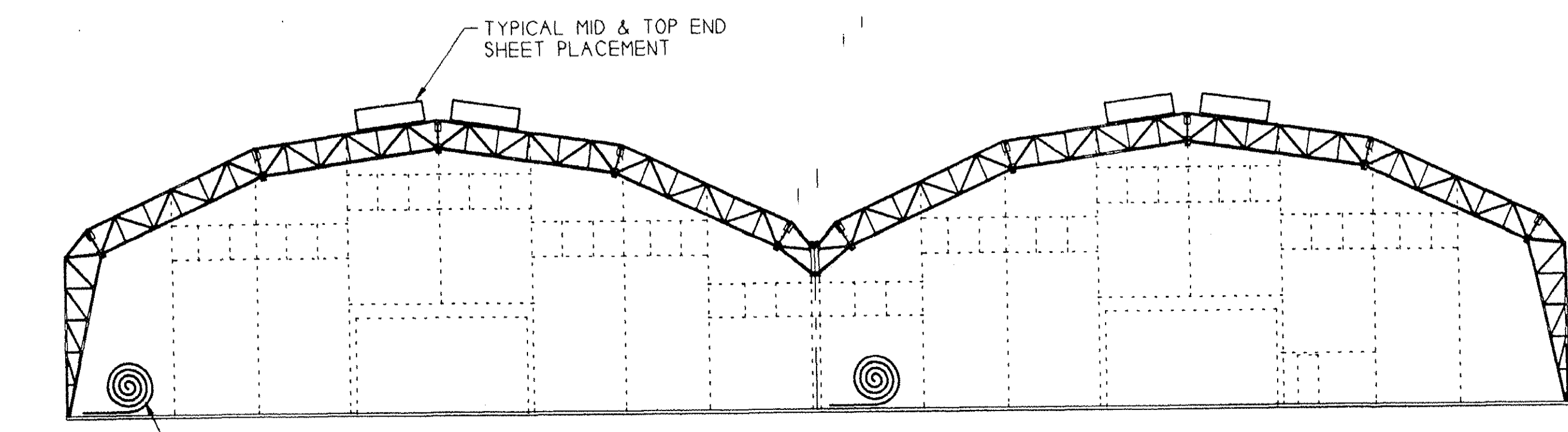


* NOTE NONSEQUENTIAL ROLL NUMBERING IN THESE BAYS *

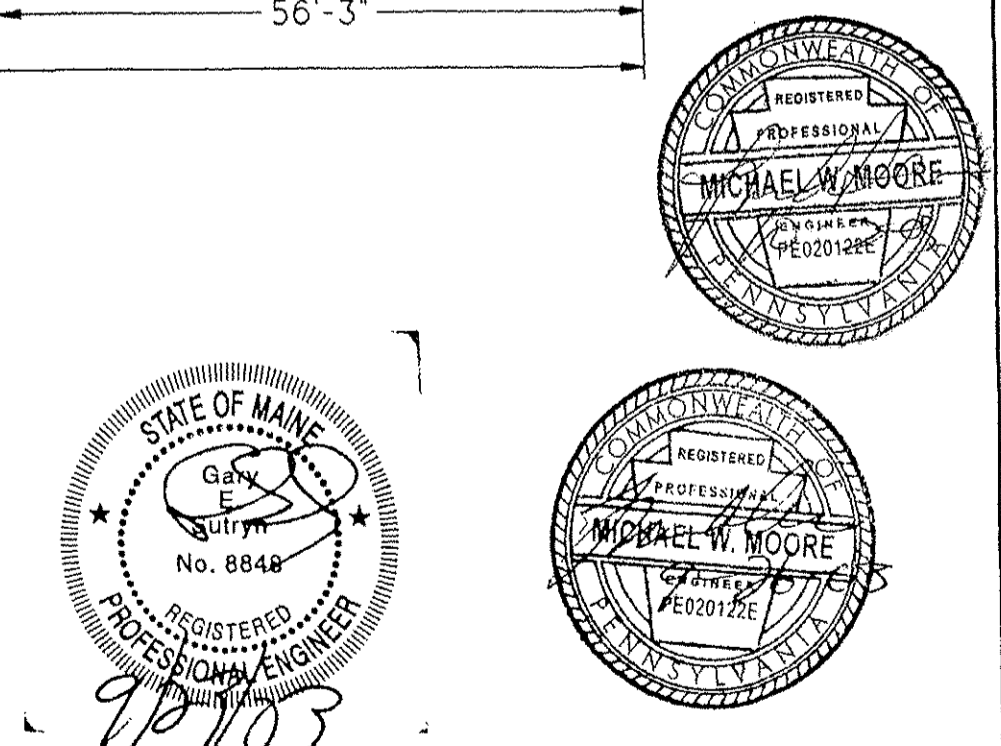
SHEET	QTY.	DESCRIPTION	DRAWING
1	1	FRONT EAST GABLE	37978
2	1	37.5' TOP END POCKET UP	37941
3, 5, 8, 10, 11	5	37.5' MID SECTION PVC	37919
4, 7, 9, 12	4	37.5' MID SECTION PVC - w/ 22' DOOR	37979
6	1	37.5' MID SECTION PVC - w/ P. DOOR	37980
13	1	37.5' MID SECTION PVC - w/ P. DOOR	37981
14	1	37.5' TOP END POCKET DOWN	37944
15	1	REAR EAST GABLE	37951
16	1	37.5' TOP END POCKET UP - APEX FLAP	37923
17, 19, 20, 22, 24, 25, 27	7	37.5' MID SECTION PVC - APEX FLAP	37909
18, 21, 23, 26	4	37.5' MID SECTION PVC - 24' BAY - APEX FLAP	37922
28	1	37.5' TOP END POCKET DOWN - APEX FLAP	37933
29	1	FRONT WEST GABLE	37951
30	1	37.5' TOP END POCKET UP	37937
31, 33, 34, 36, 38, 39, 41	7	37.5' MID SECTION PVC	37904
32, 35, 37, 40	4	37.5' MID SECTION PVC - 24' BAY	37921
42	1	37.5' TOP END POCKET DOWN	37940
43	1	REAR WEST GABLE	37978
44	1	37.5' TOP END POCKET UP - APEX FLAP	37942
45, 48, 50, 53, 55	5	37.5' MID SECTION PVC - APEX FLAP	37920
46, 49, 51, 54	4	37.5' MID SECTION PVC w/ 18' DOOR - APEX FLAP	37982
47, 52	2	37.5' MID SECTION PVC w/ P. DOOR - APEX FLAP	37983
56	1	37.5' TOP END POCKET DOWN - APEX FLAP	37945



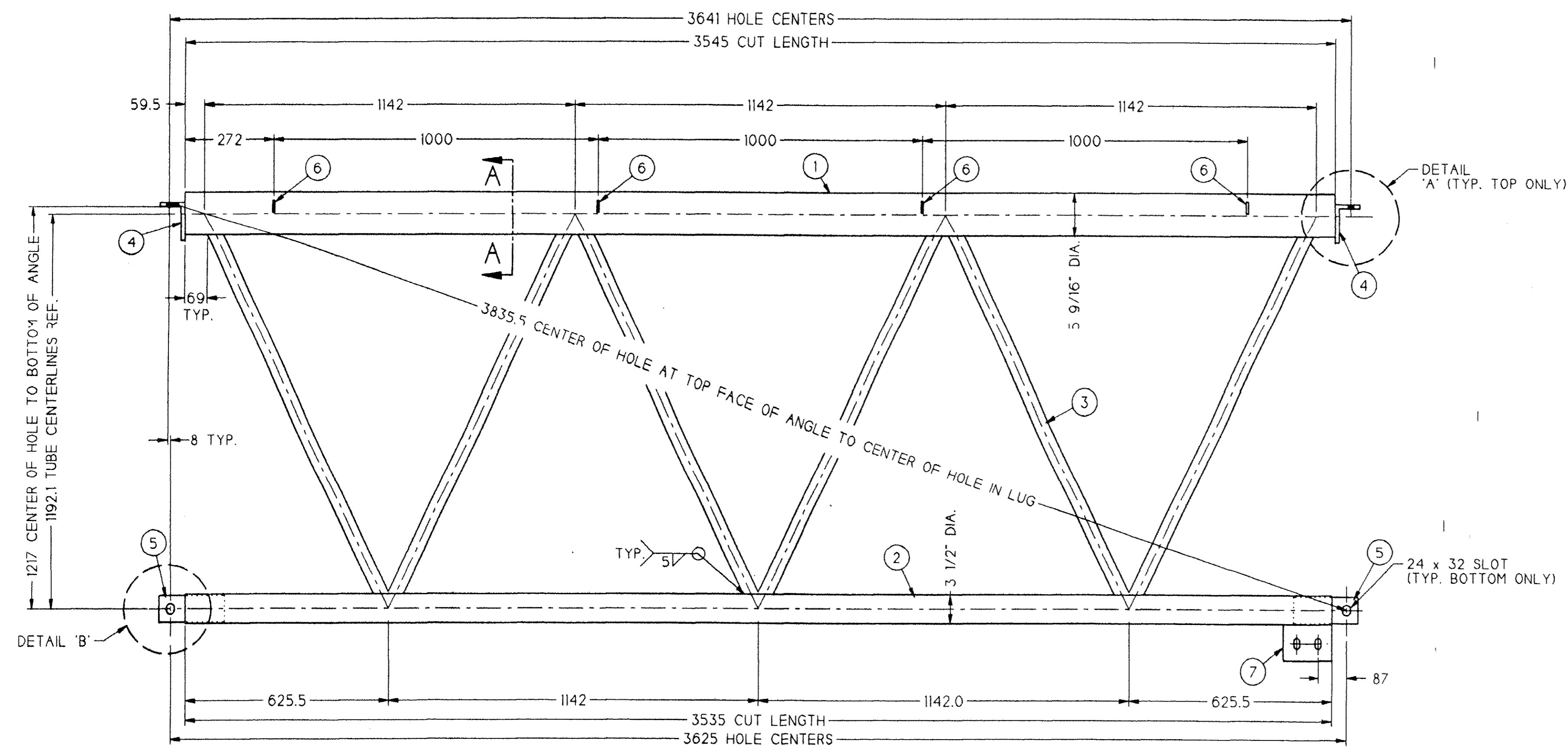
PLAN VIEW



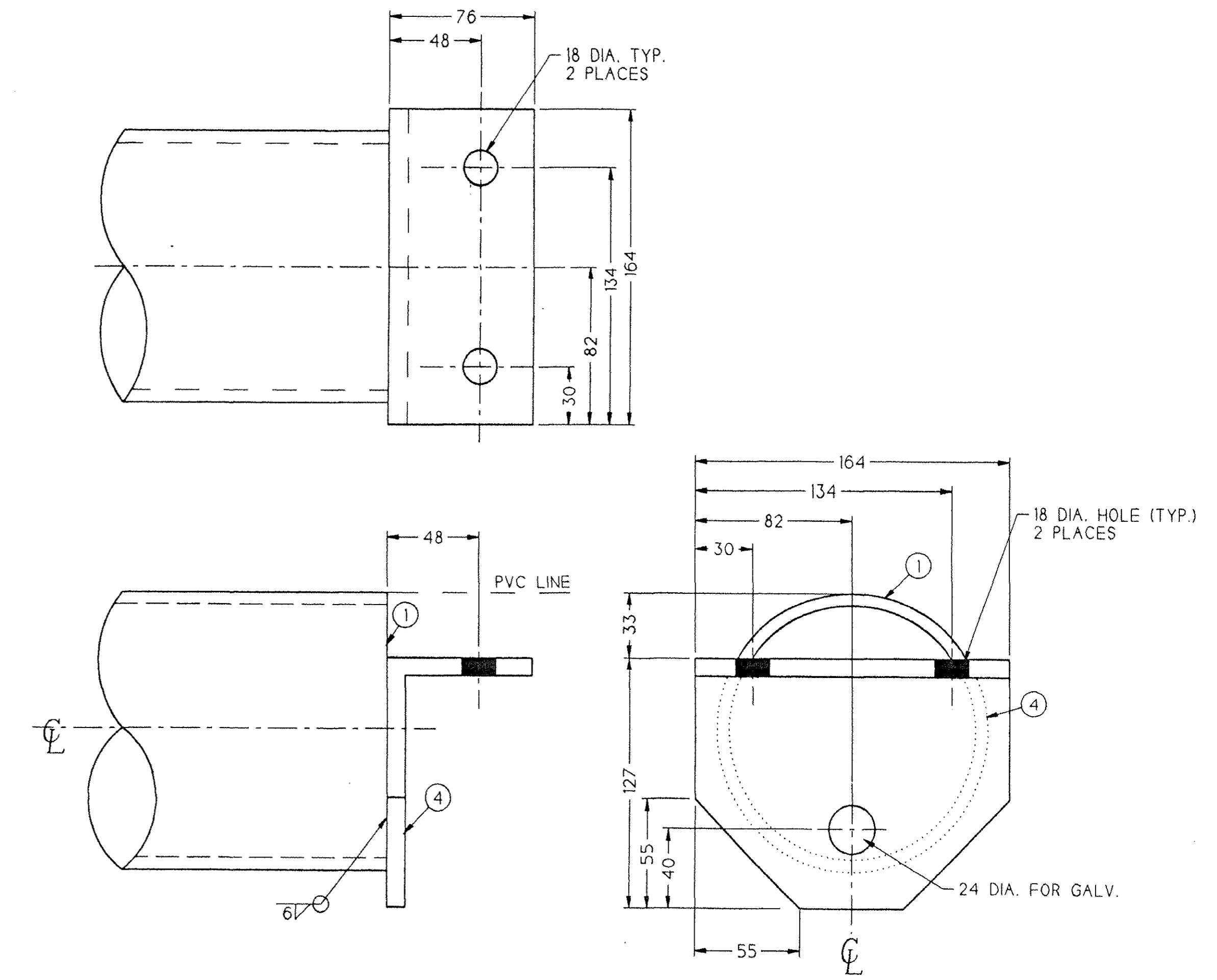
SECTION/ELEVATION VIEW



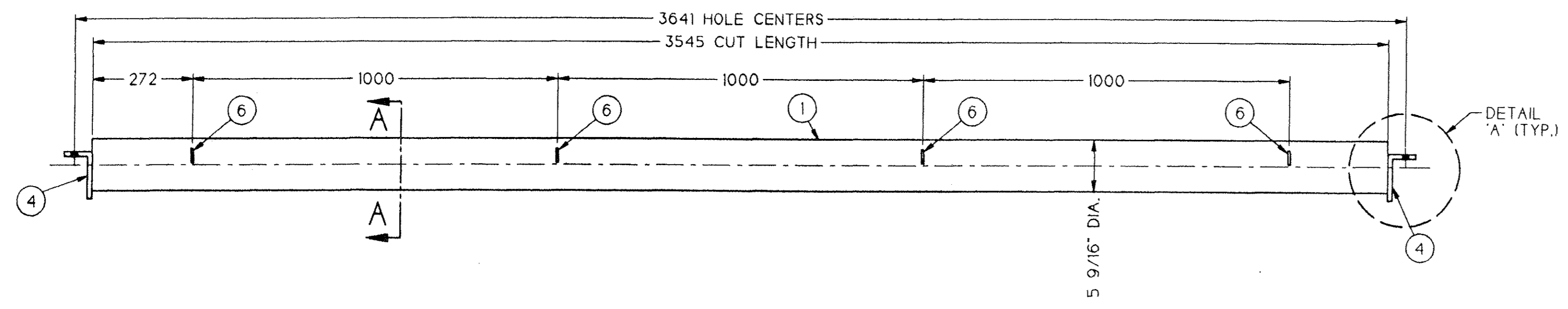
B	CORRECTED SHEET NUMBERING	AR	JAG	09/11/07
A	REVISED DOOR LAYOUT AND SHEET NUMBERS	GLJ	JAB	9-9-03
REV.	DESCRIPTION	DRAWN	APP.	DATE
We Cover The World		33.5m BVE BILINK / 7m LEG PVC SCHEMATIC		
RUBB				
BUILDING SYSTEMS				
DRAWN	GLJ 8-13-03	SCALE	1 : 200	
APP.	JAB	JOB #	03088	
DATE	JMG	JOB NAME	JMG	
RUBB, INC. SANFORD MAINE 04073		DRAWING NO.	37901	
TEL: 207-324-2877 FAX 207-324-2347				



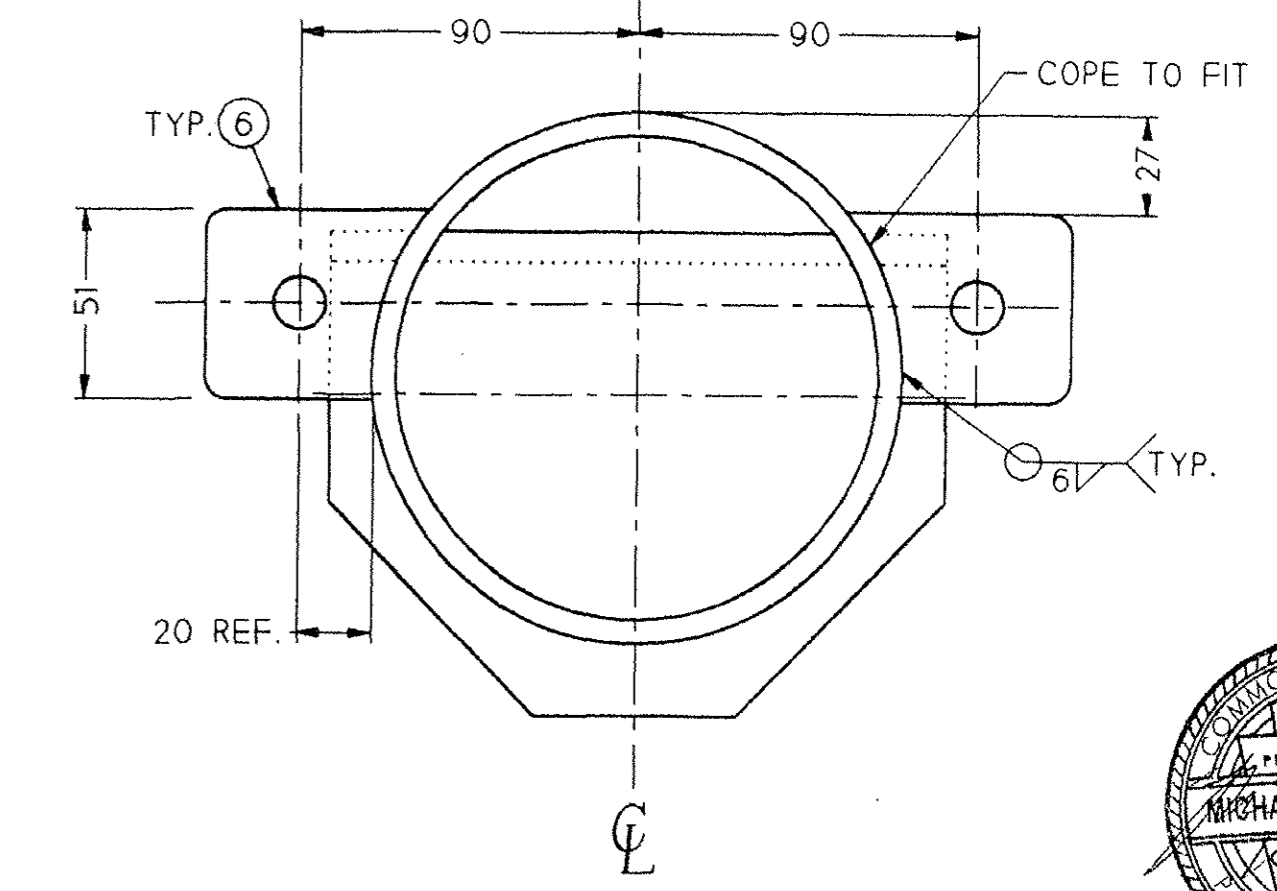
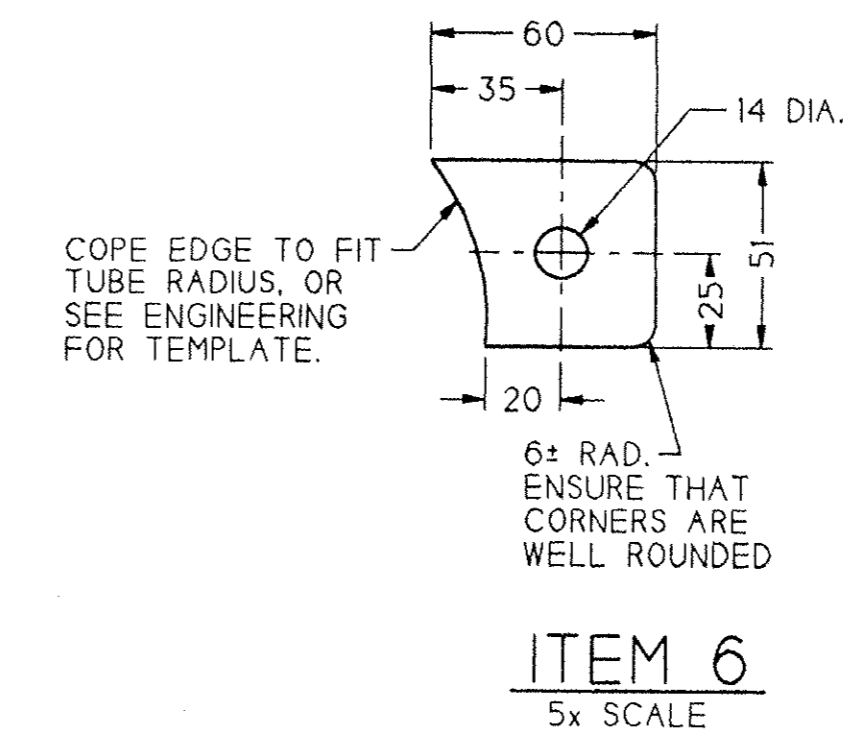
GABLE PEAK AXIAL FRAME - A1
 PEAK AXIAL FRAME - A2
 (OMIT ITEM #7 FOR A2)



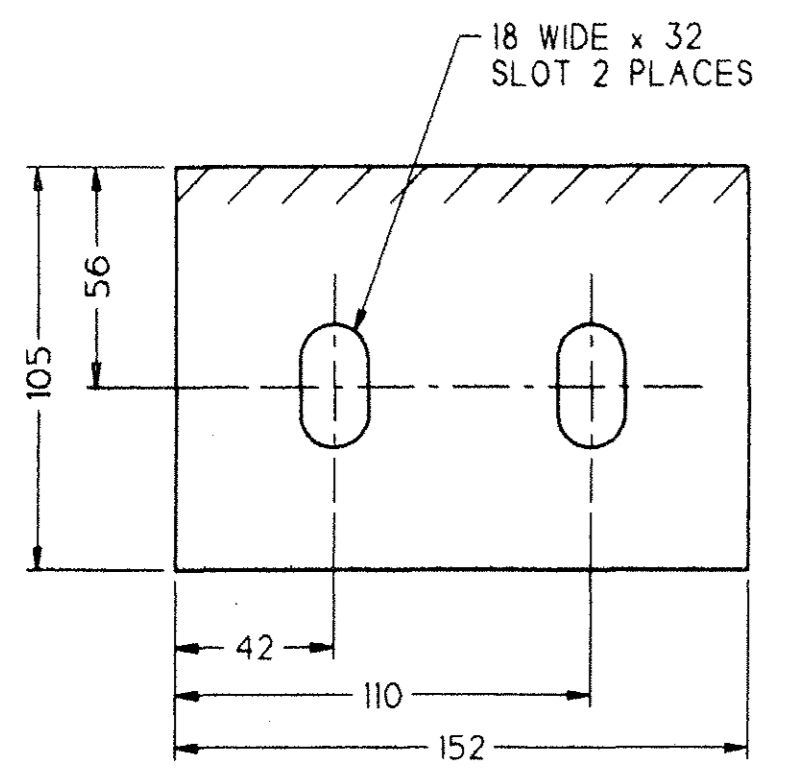
DETAIL 'A'
 5x SCALE



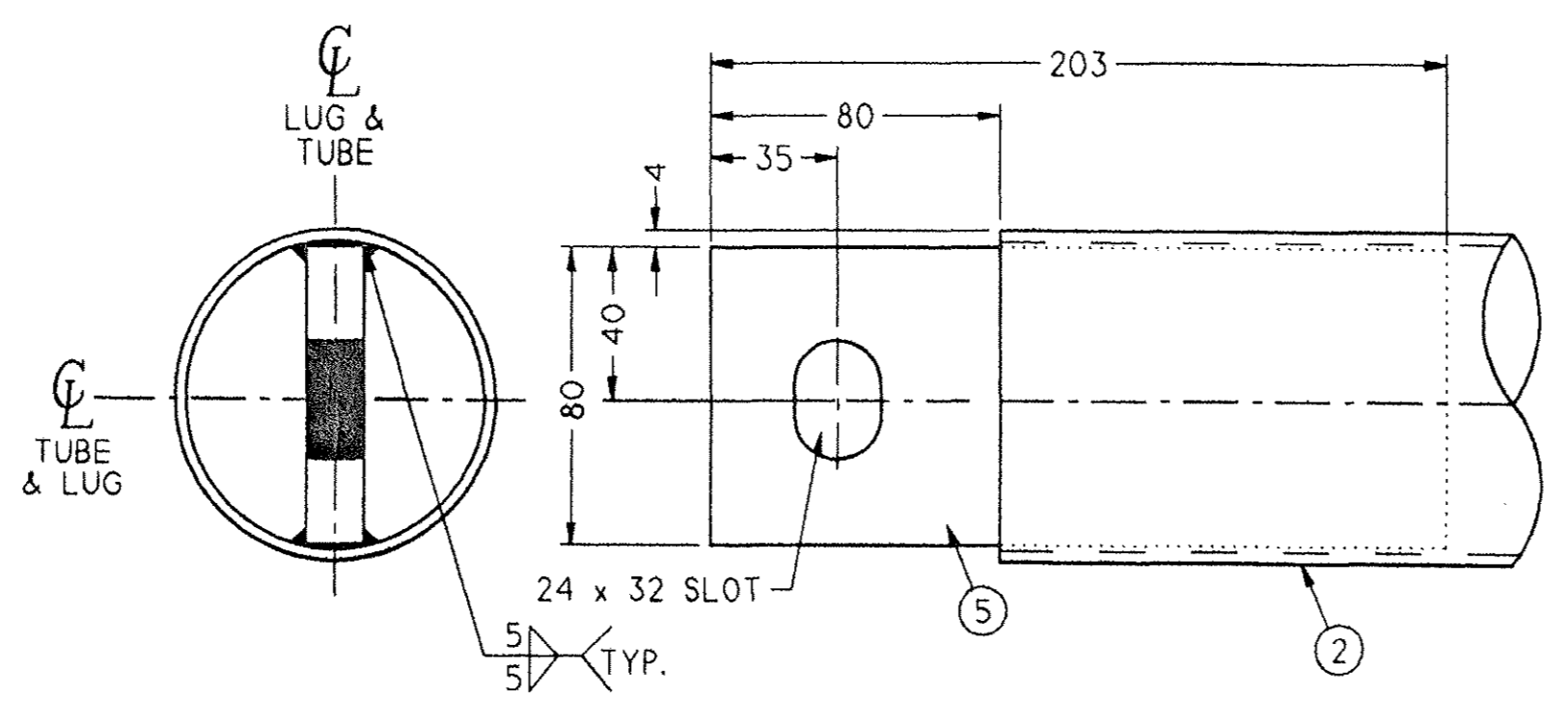
PEAK AXIAL TUBE - A3



SECTION 'A'
 5x SCALE



ITEM 7
 5x SCALE



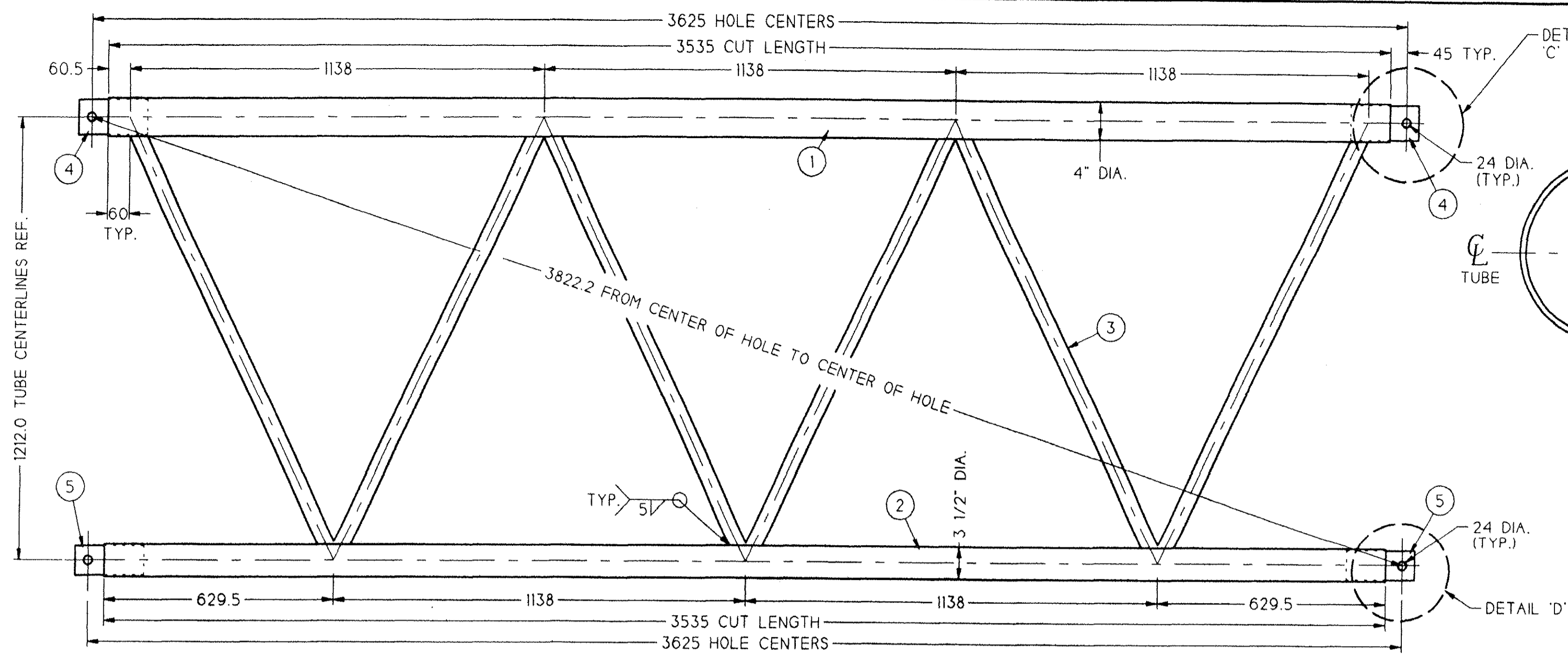
DETAIL 'B'
 WELDING DETAILS
 5x SCALE

- NOTES:
- 1.) BREAK SHARP CORNERS FOR PVC.
 - 2.) SEE DRAWING 1006 FOR GENERAL WELD NOTES.
 - 3.) BILL OF MATERIAL IS FOR ONE ASSEMBLY OF EACH.
 - 4.) SEE PURLIN PROFILES FOR LOCATION.
 - 5.) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.
 - 6.) VENT ALL TUBES AS REQUIRED FOR GALVANIZING.
 - 7.) ALL A500 MATERIAL TO BE Fy = 50 ksi MINIMUM.

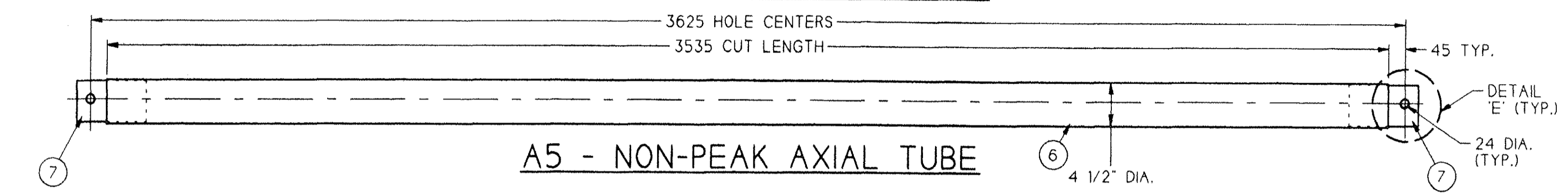
ITEM	QTY.	DESCRIPTION	SPEC.
1	2	TUBE 5 9/16" DIA. x 0.25" x 3545	A500
2	1	TUBE 3 1/2" DIA. x 0.120" x 3535	A500
3	6	TUBE 1 3/4" DIA. x 0.095"	A500
4	4	ANGLE 3" x 5" x 3/8" x 164	A36
5	2	FLAT 8" x 5/8" x 80	A36
6	16	FLAT 2" x 1/4" x 60	A36
7	1	FLAT 6" x 1/2" x 105	A36
8	-	-	-
9	-	-	-

REV.	DESCRIPTION	DRAWN	APP.	DATE
1	We Cover The World			
2	33.5m BVE BILLINK / 7m LEG PEAK AXIAL STEEL 12'-6" BAYS			
3	MRB 8/14/03	JMG		8/21/03
4				
5				
6				
7				
8				
9				

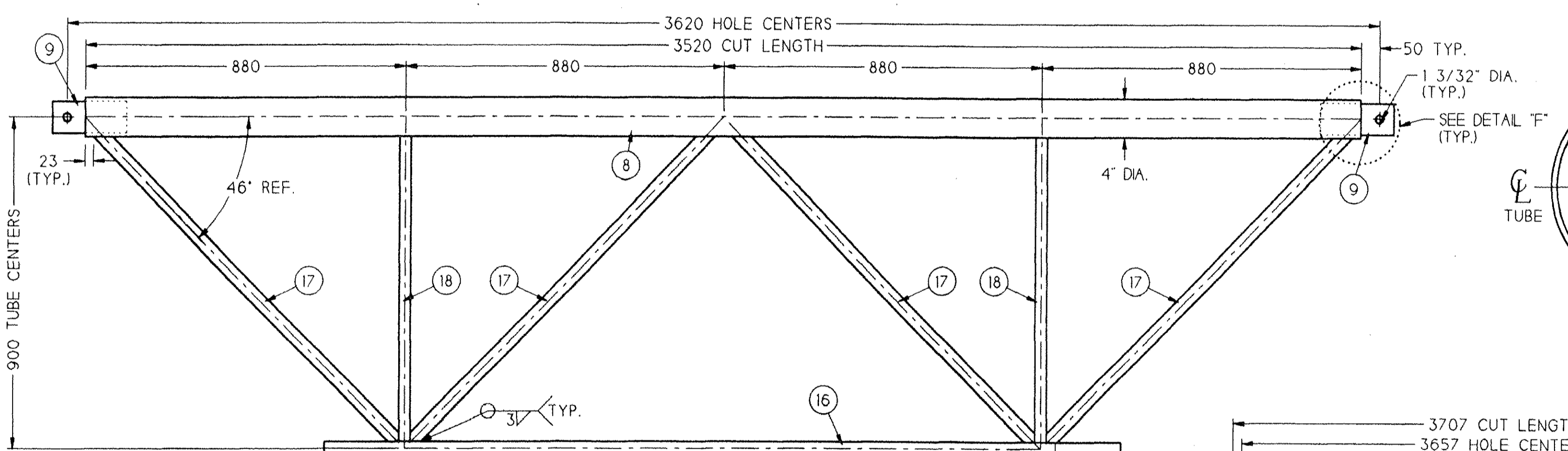
RUBB, INC. SANFORD MAINE 04073
 TEL: 207-324-2877 FAX 207-324-2347
 37910



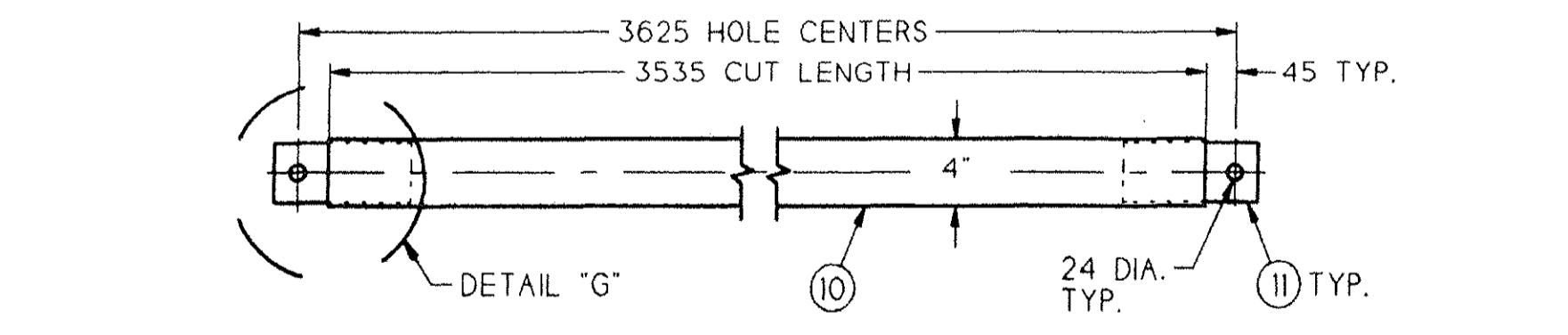
A4 - NON-PEAK AXIAL FRAME



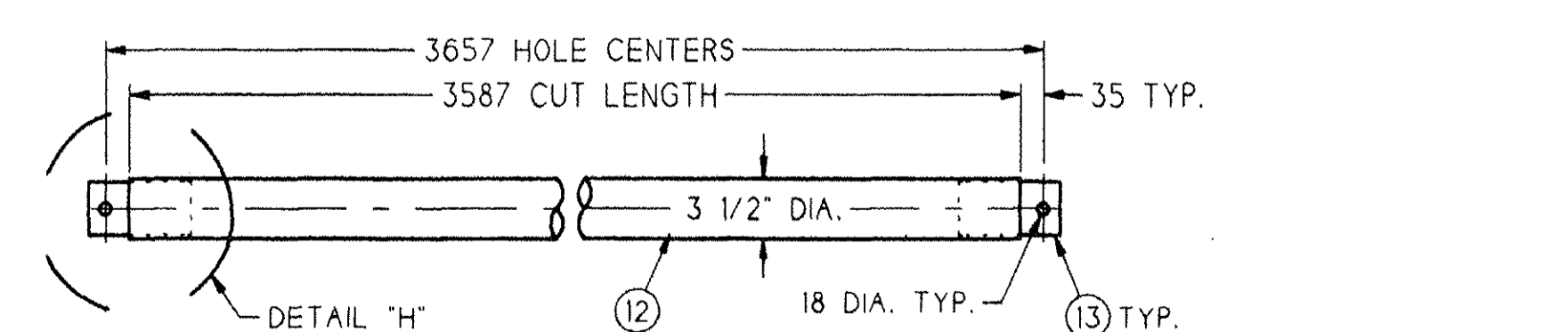
A5 - NON-PEAK AXIAL TUBE



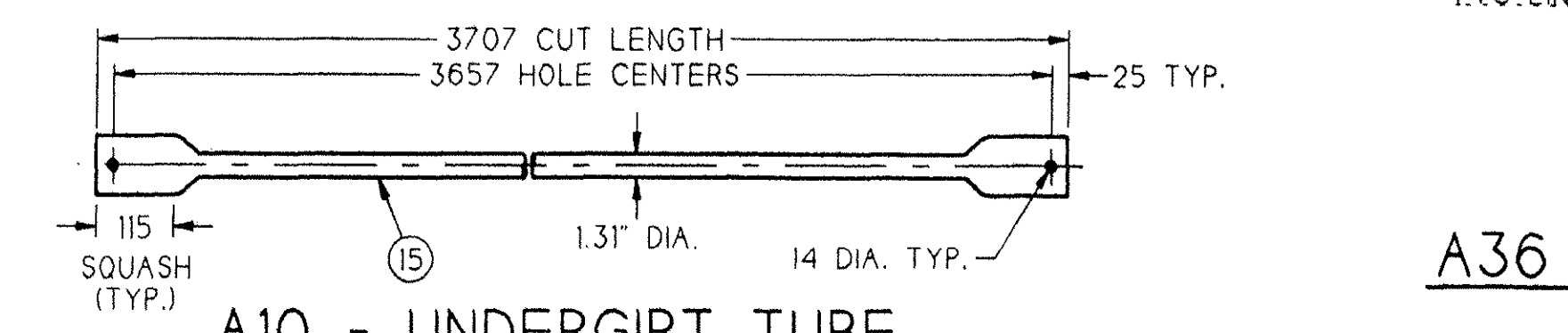
A6 - LEG BEND AXIAL D-FRAME



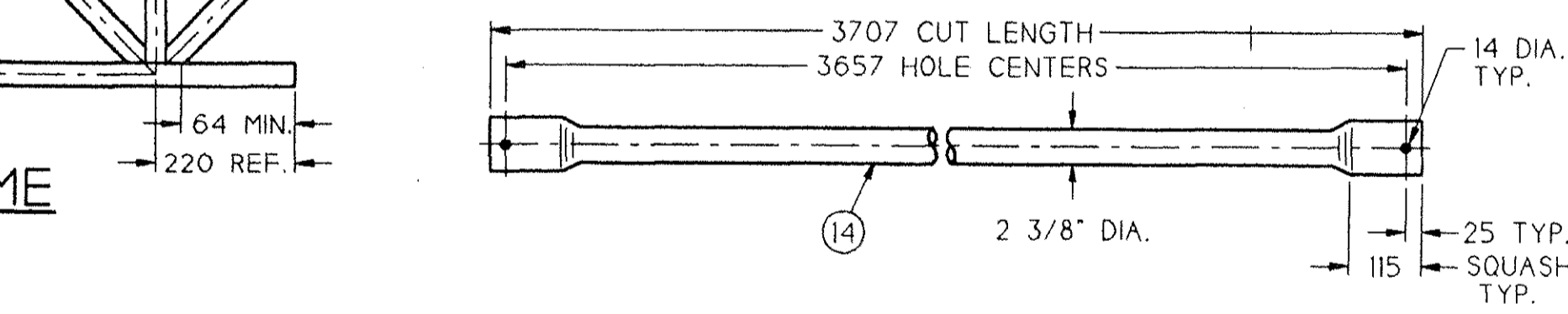
A7 - NON-APEX COMPRESSION TUBE - NON-VALLEY



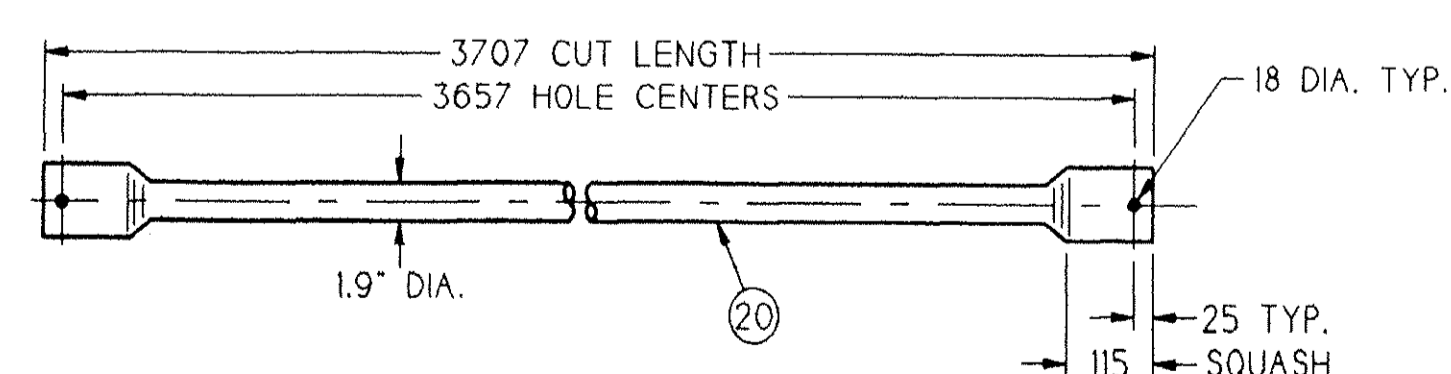
A8 - 8° ROOF LONGITUDINAL TUBE
ALSO LEG OUTER NODE RESTRAINT & LEG LONGITUDINAL TUBE



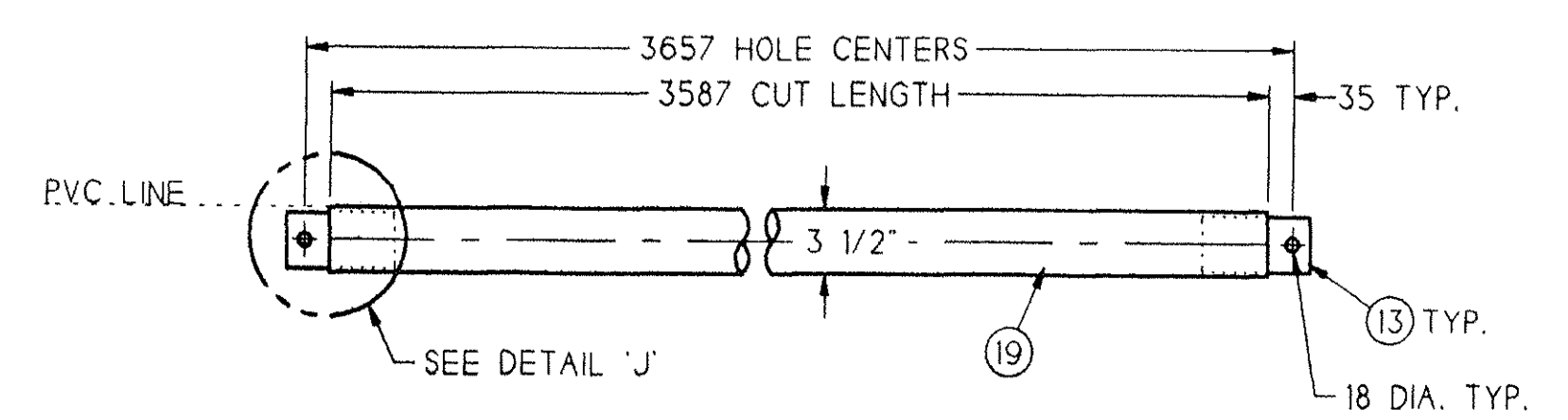
A10 - UNDERGIRT TUBE



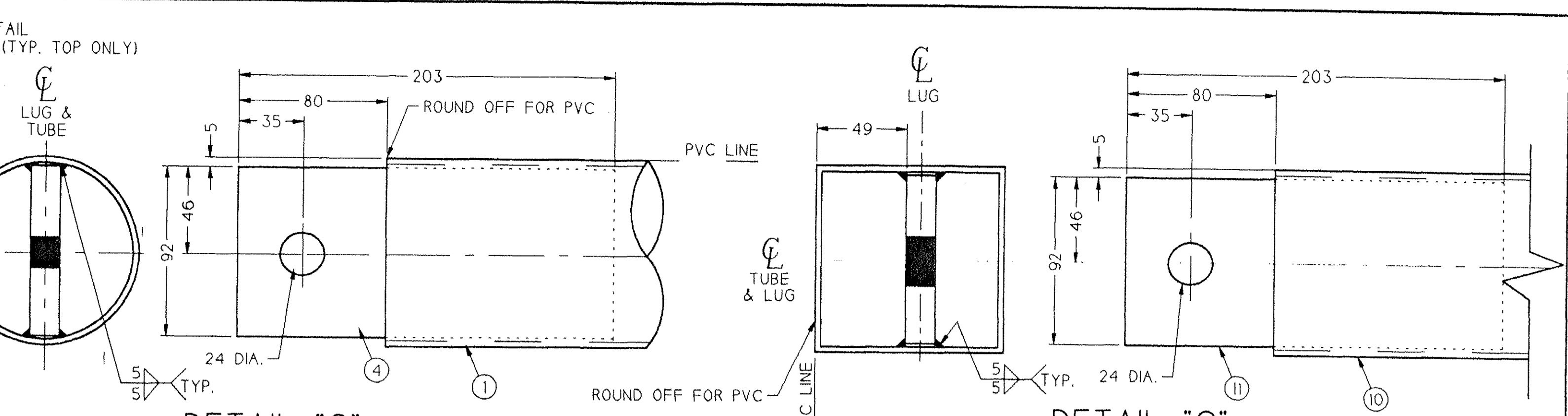
A9 - INNER NODE RESTRAINT TUBE



A28 - PVC UNROLLING TUBE

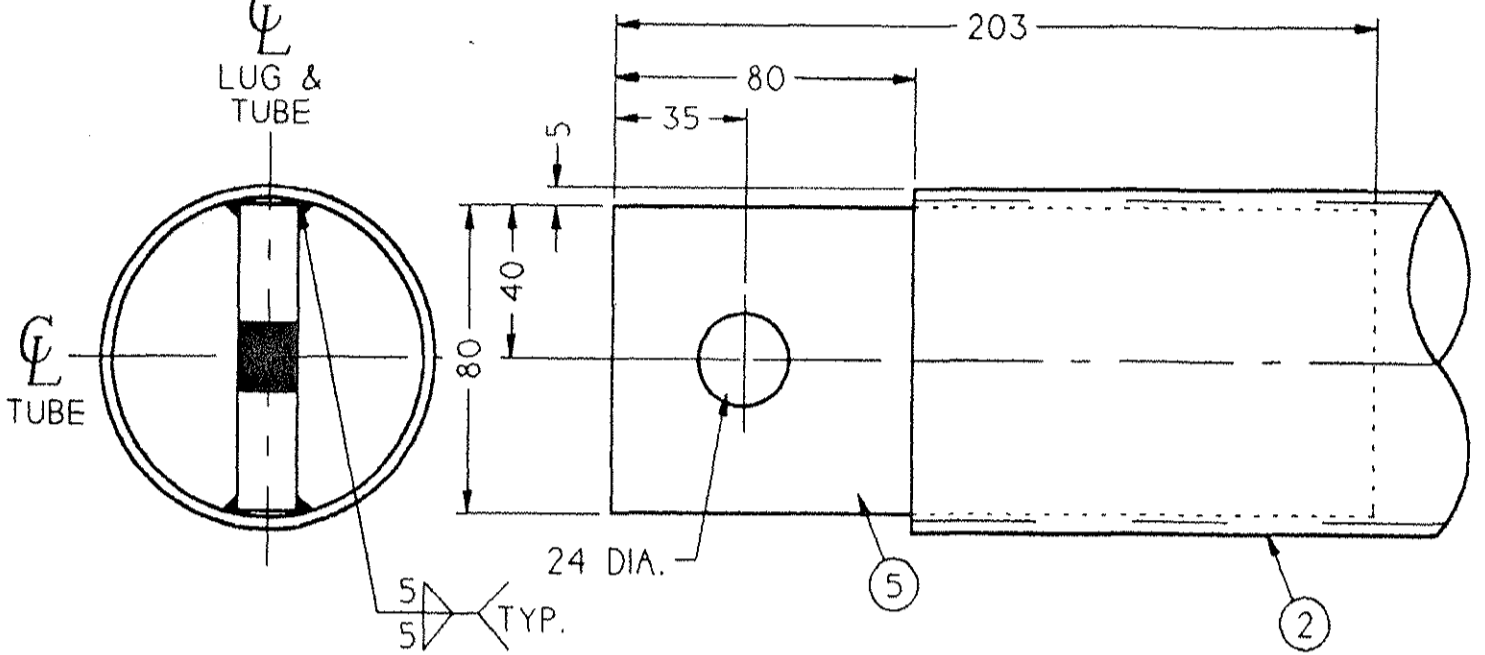


A36 - 24° NON-VALLEY ROOF LONGITUDINAL TUBE
ALSO ROOF OUTER NODE RESTRAINT



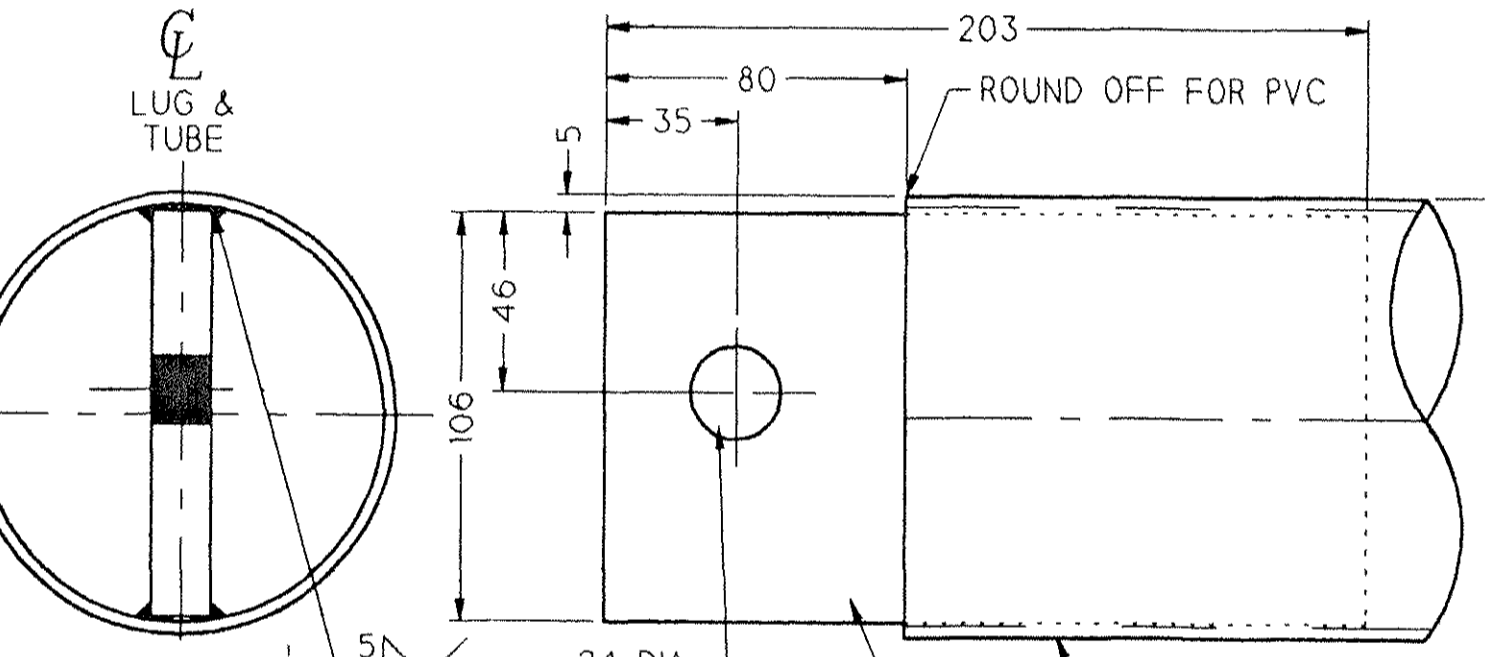
DETAIL "C"
WELDING DETAILS
5x SCALE

DETAIL "G"
WELDING DETAILS
5x SCALE



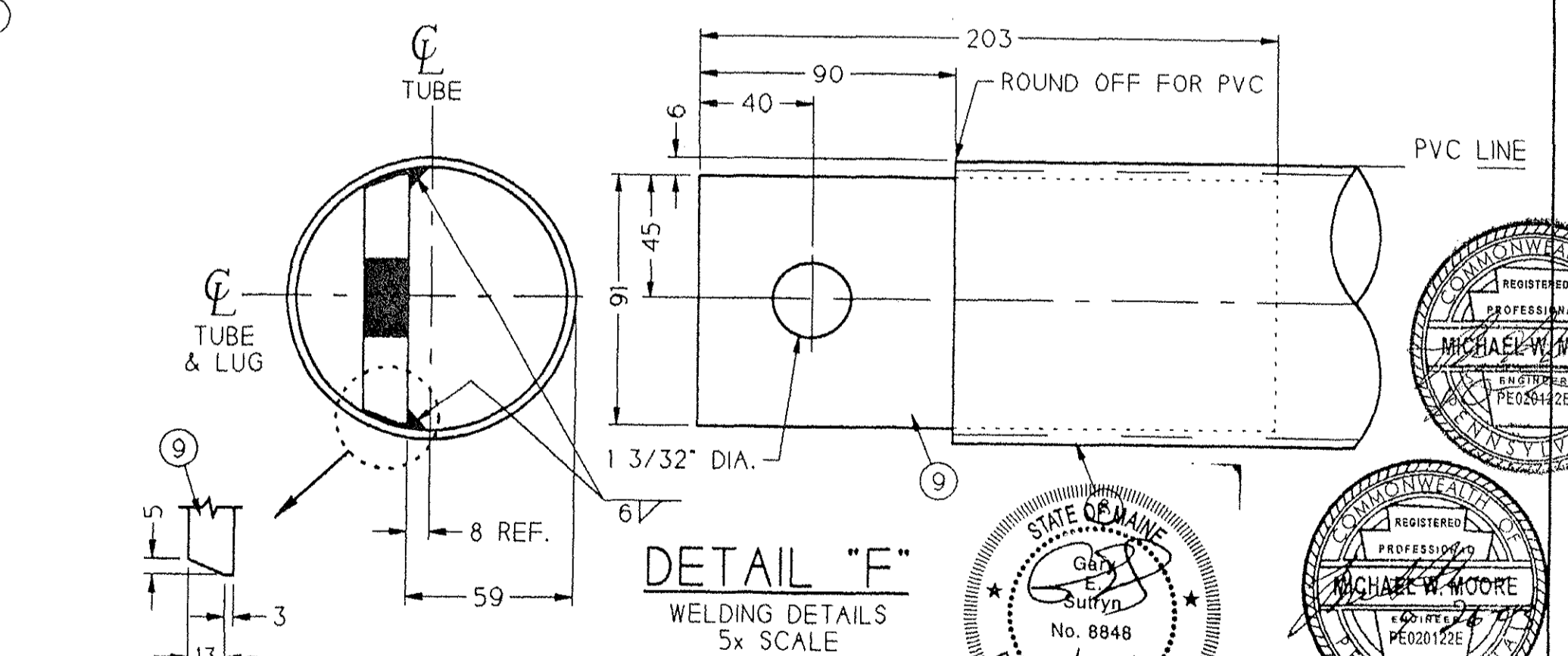
DETAIL "D"
WELDING DETAILS
5x SCALE

DETAIL "H"
WELDING DETAILS
5x SCALE



DETAIL "E"
WELDING DETAILS
5x SCALE

DETAIL "J"
WELDING DETAILS
5x SCALE

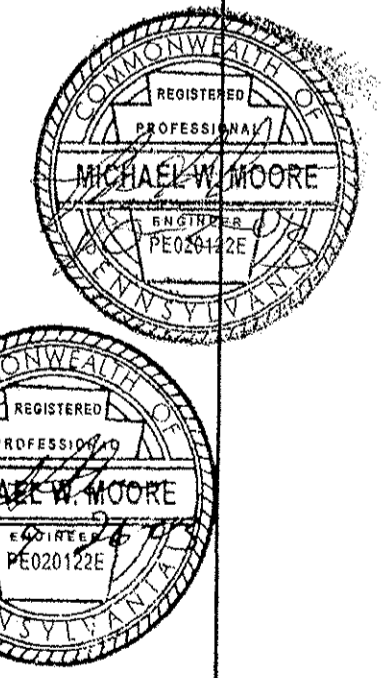


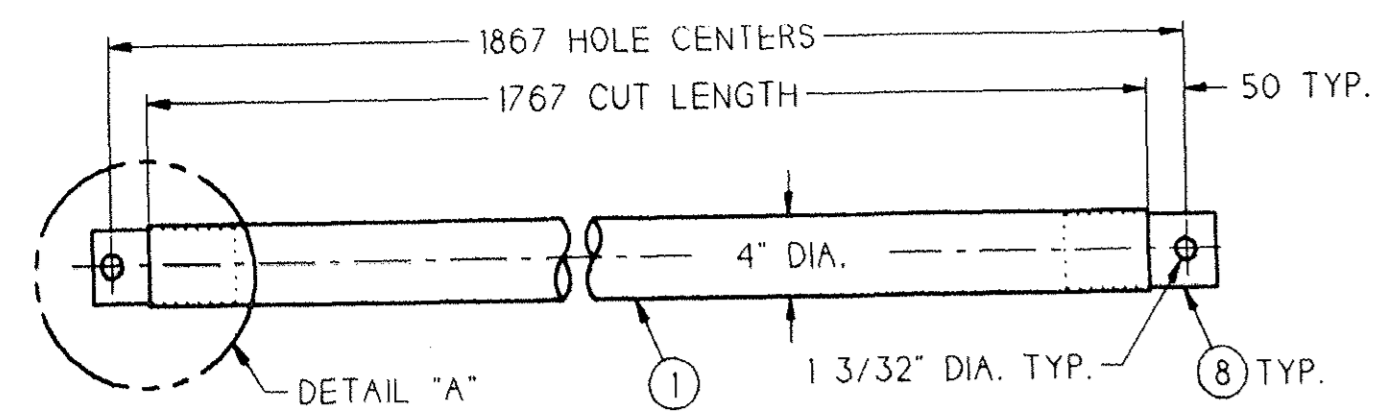
BEVEL DETAIL

ITEM	QTY.	DESCRIPTION	SPEC
1	1	TUBE 4" DIA. x 0.125" x 3535	A500
2	1	TUBE 3 1/2" DIA. x 0.120" x 3535	A500
3	6	TUBE 1 3/4" DIA. x 0.095"	A500
4	2	FLAT 8" x 5/8" x 92	A36
5	2	FLAT 8" x 5/8" x 80	A36
6	1	TUBE 4 1/2" DIA. x 0.125" x 3535	A500
7	2	FLAT 8" x 5/8" x 106	A36
8	1	TUBE 4" DIA. x 0.125" x 3520	A500
9	2	FLAT 8" x 5/8" x 91	A36
10	1	TS 4" x 4" x 1/8" x 3535	A500
11	2	FLAT 8" x 5/8" x 92	A36
12	1	TUBE 3 1/2" DIA. x 0.120" x 3587	A500
13	4	FLAT 3" x 3/8" x 152	A36
14	1	TUBE 2 3/8" DIA. x 0.120" x 3707	A500
15	1	TUBE 1 3/8" DIA. x 0.083" x 3707	A500
16	1	TUBE 1 1/2" DIA. x 0.095"	A500
17	1	TUBE 1 1/2" DIA. x 0.095"	A500
18	1	TUBE 1 1/2" DIA. x 0.095"	A500
19	1	TUBE 3 1/2" DIA. x 188" x 3587	A500
20	1	TUBE 1.9" DIA. x 0.109" x 3707	A500

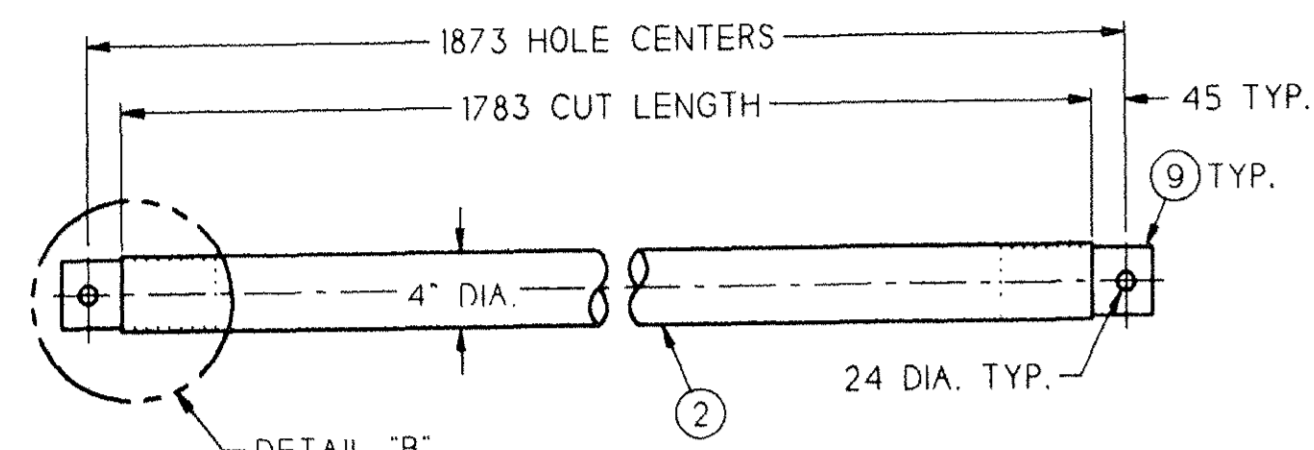
- NOTES:
 1) BREAK SHARP CORNERS FOR PVC.
 2) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
 3) BILL OF MATERIAL IS FOR ONE ASSEMBLY OF EACH.
 4) SEE PURLIN PROFILES FOR LOCATION.
 5) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.
 6) VENT ALL TUBES AS REQUIRED FOR GALVANIZING.
 7.) ALL A500 MATERIAL TO BE Fy = 50 KSI MINIMUM.

REV. B	REVISED ASSEMBLY A36, CHANGED ITEM NUMBER ON ASSY A28.	MJG	GES	9/17/03
REV. A	ADDED ASSEMBLY A36	MRB	GES	9-17-03
REV.	DESCRIPTION	DRAWN	APP.	DATE
We Cover The World				
RUBB		33.5m BVE BILINK / 7m LEG AXIAL STEEL 12'-6" BAYS		
DRAWN	MRB 8/14/03	SCALE	1 : 10	
APP.	GES 8/26/03	JOB #	03088	
DATE		JOB NAME	JMG	
RUBB, INC. SANFORD MAINE 04073 TEL: 207-324-2877 FAX 207-324-2347				
				DRAWING NO. 37911

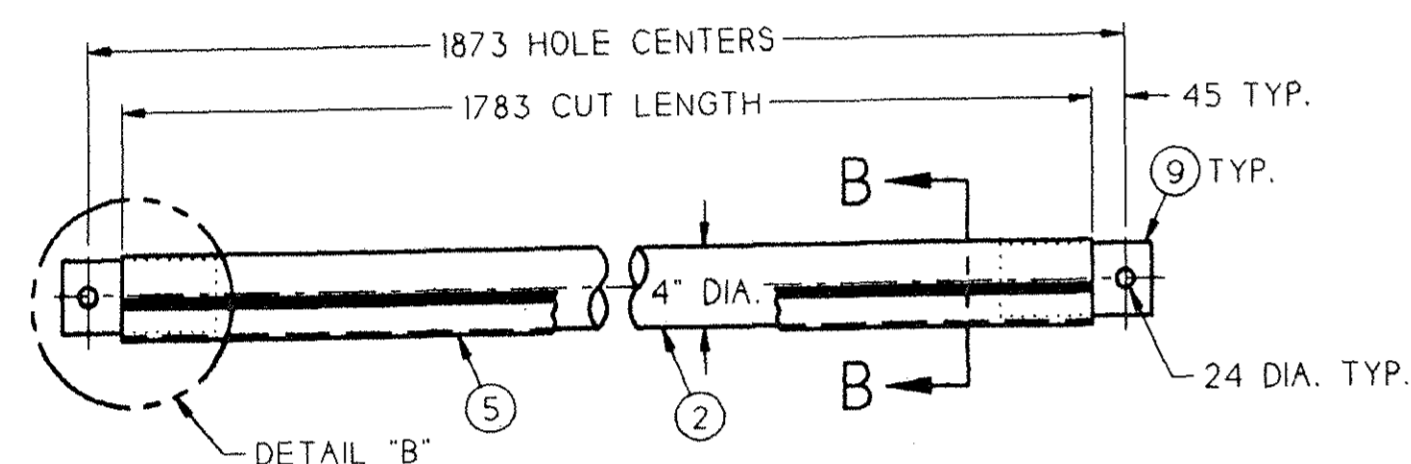




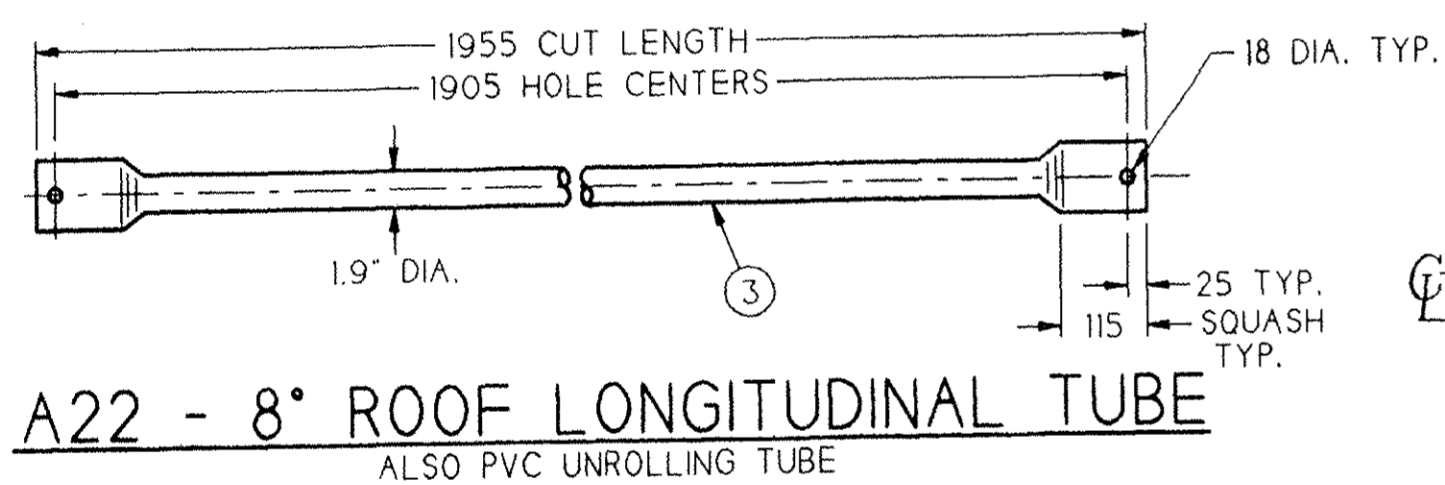
A19 - LEG BEND AXIAL TUBE



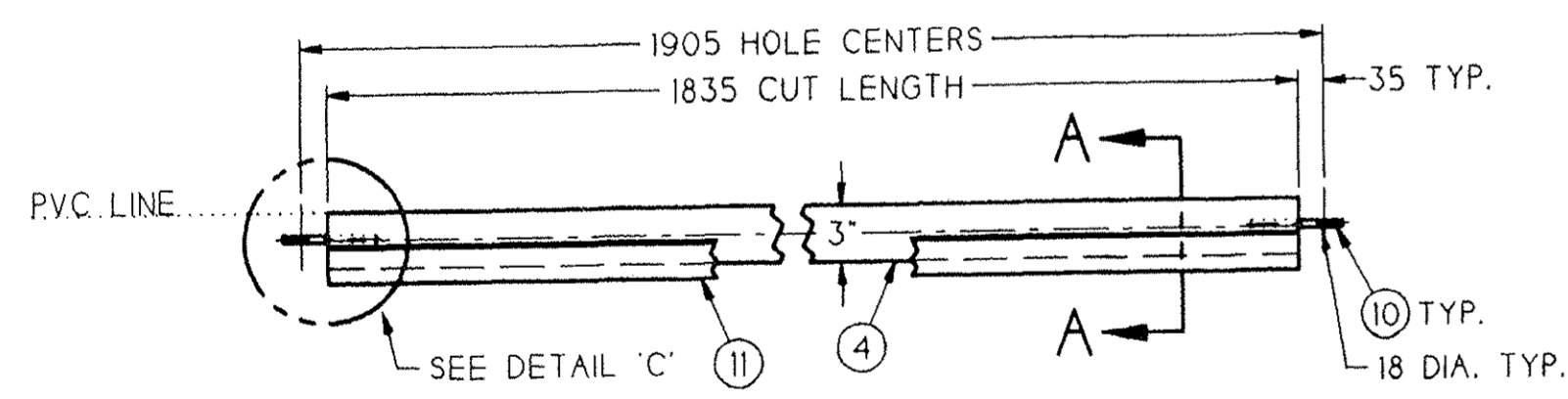
A20 - NON PEAK AXIAL TUBE



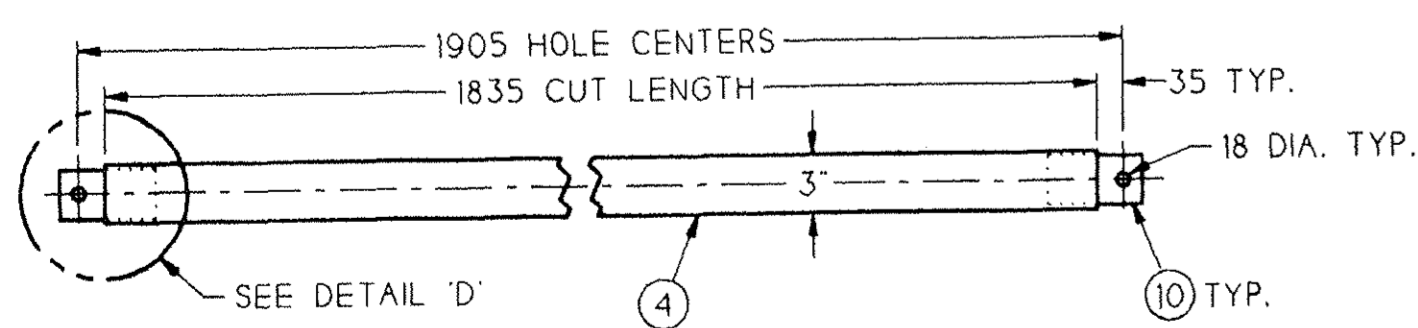
A21 - VALLEY NON PEAK AXIAL TUBE
STEEL CLADDING ATTACHMENT



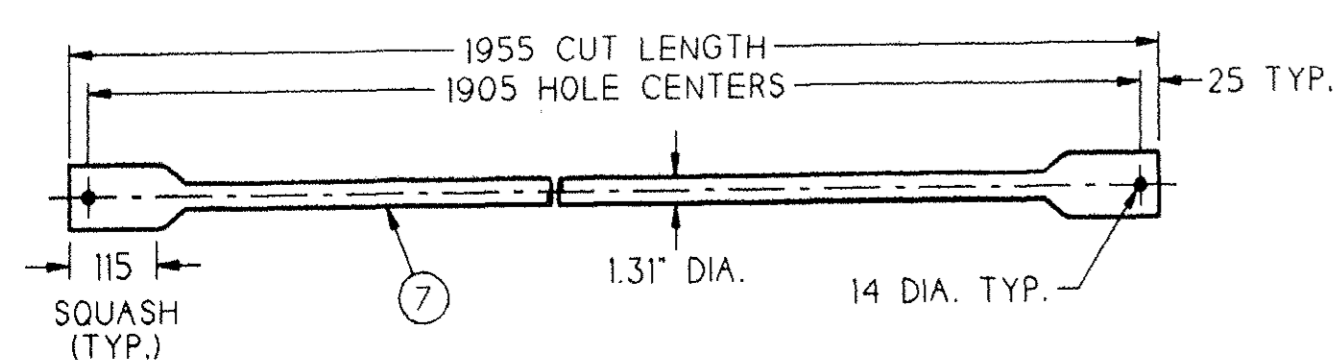
A22 - 8° ROOF LONGITUDINAL TUBE
ALSO PVC UNROLLING TUBE



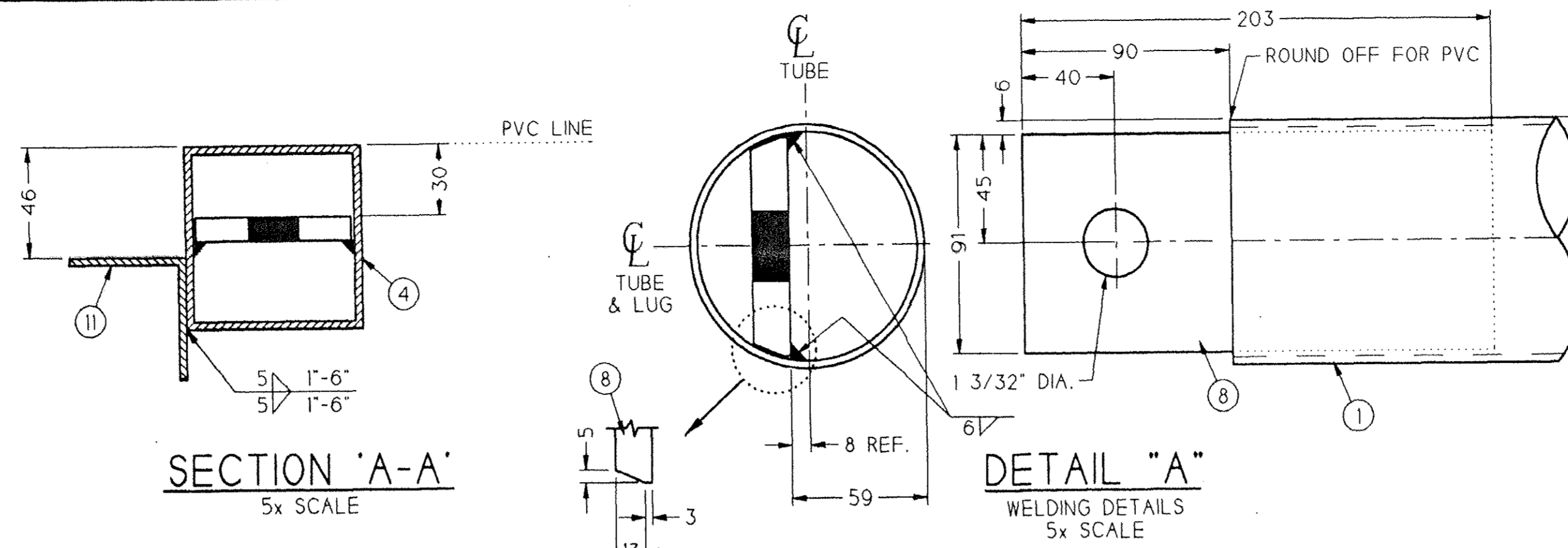
A23 - VALLEY ROOF LONGITUDINAL
w/ CLADDING ANGLE
STEEL CLADDING ATTACHMENT



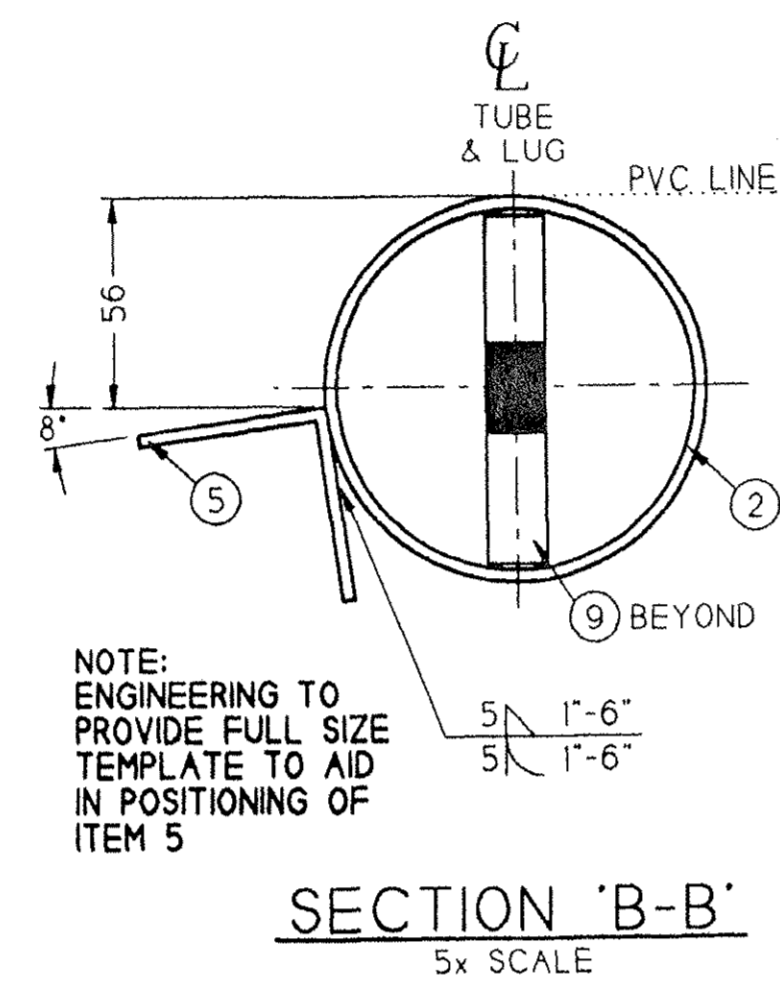
A24 - VALLEY ROOF LONGITUDINAL



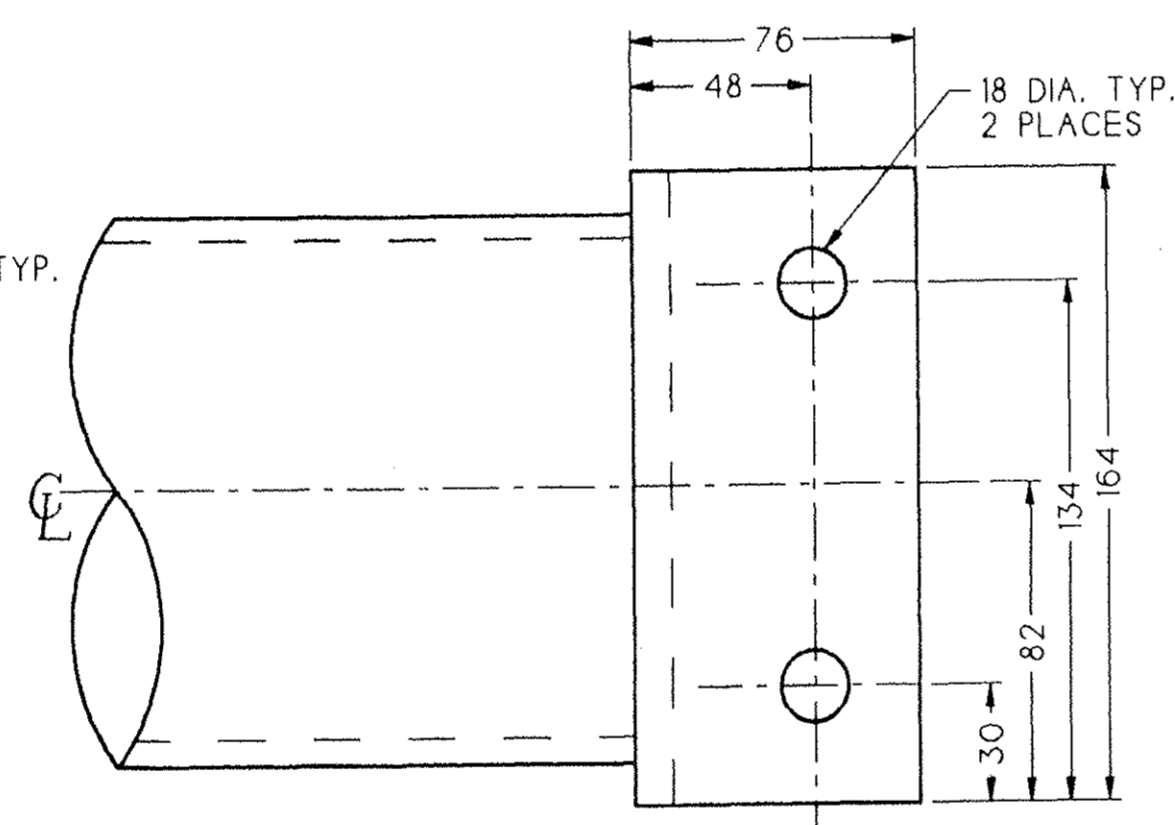
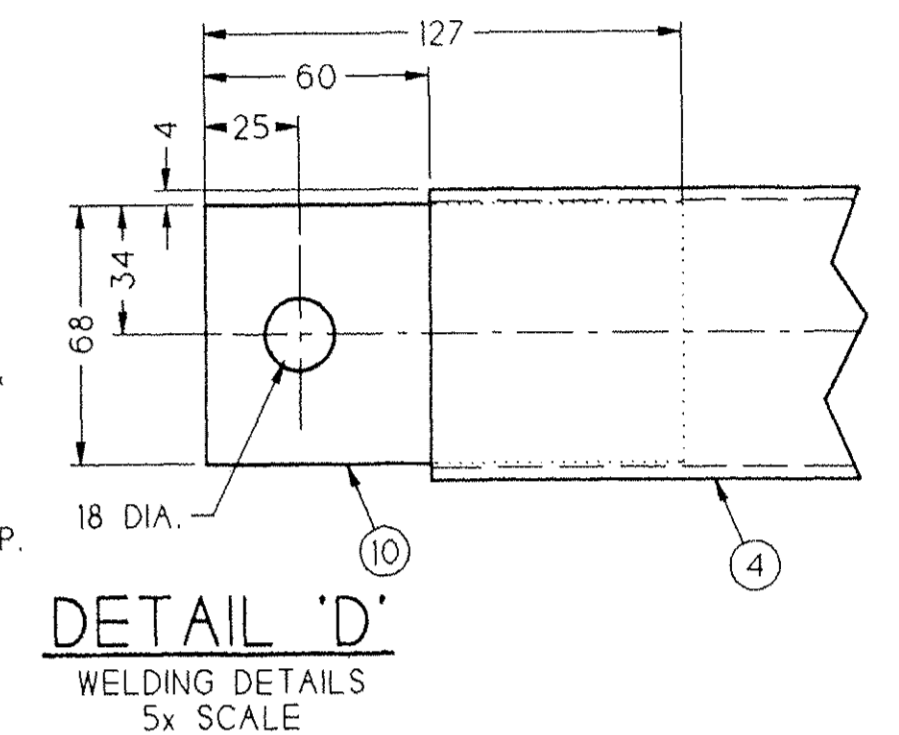
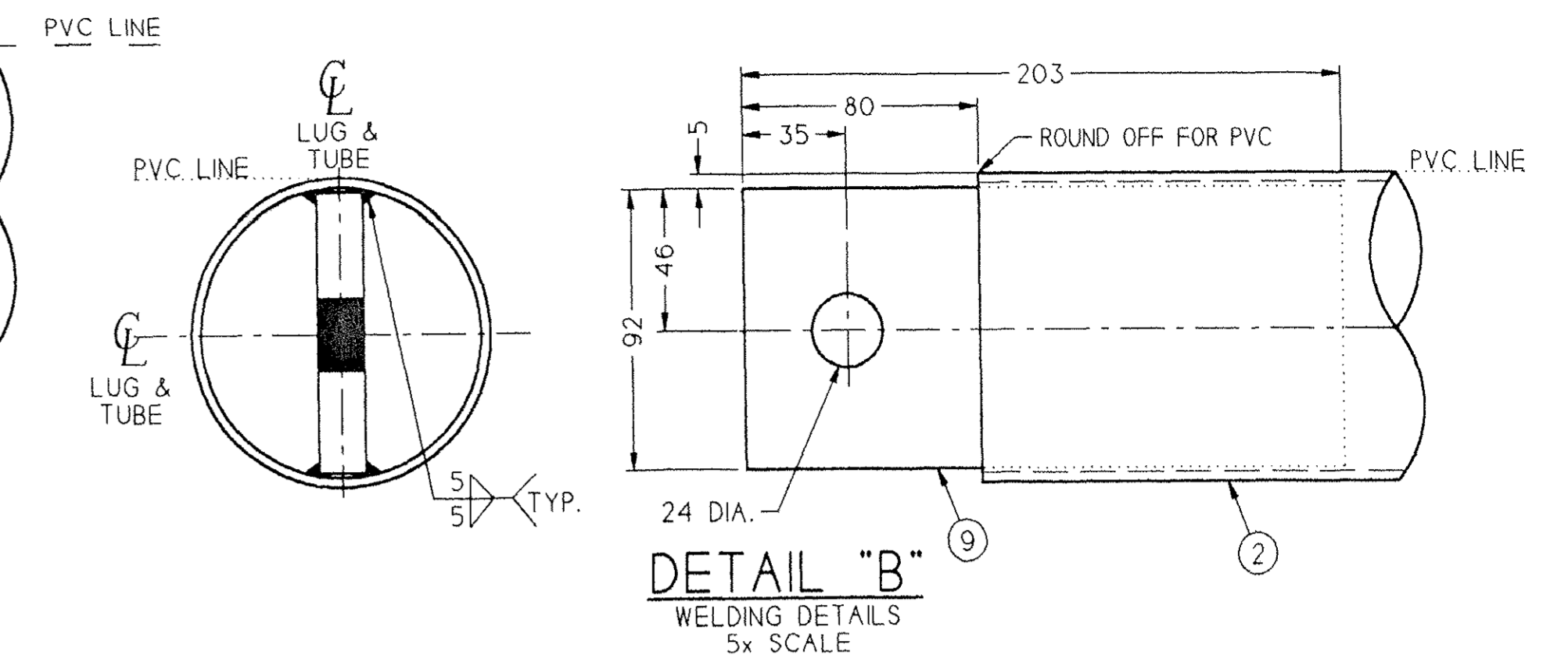
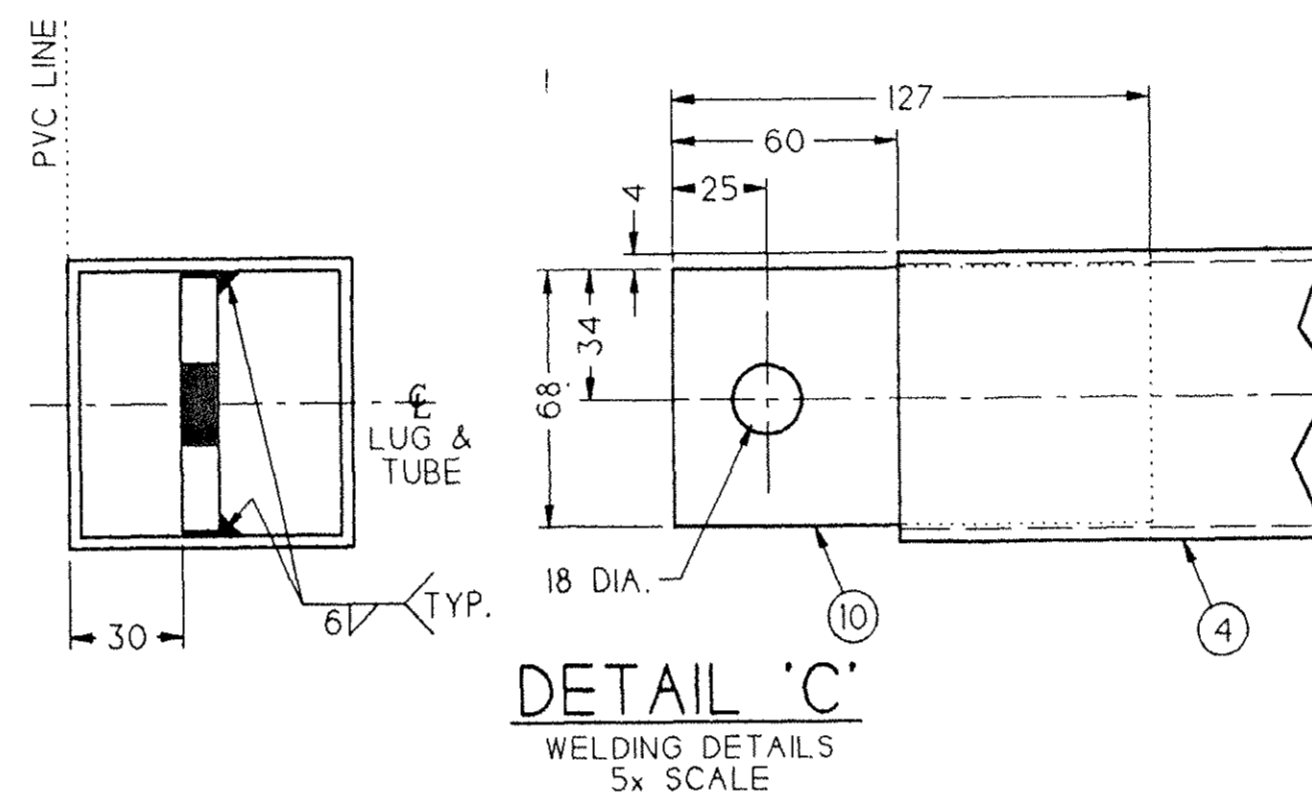
A25 - UNDERGIRT TUBE



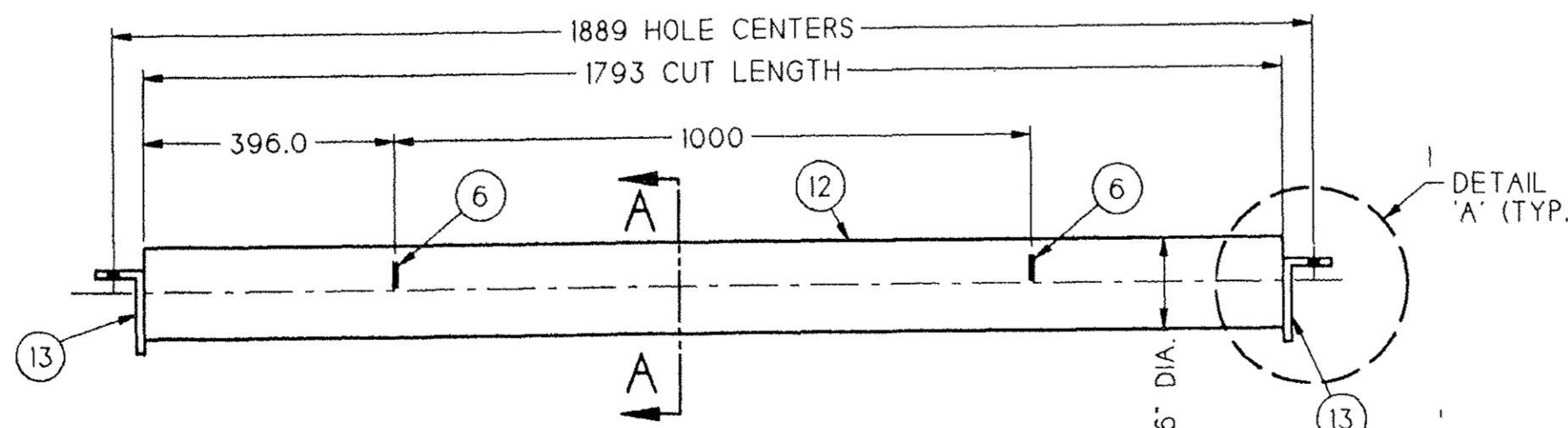
BEVEL DETAIL



NOTE:
ENGINEERING TO
PROVIDE FULL SIZE
TEMPLATE TO AID
IN POSITIONING OF
ITEM 5

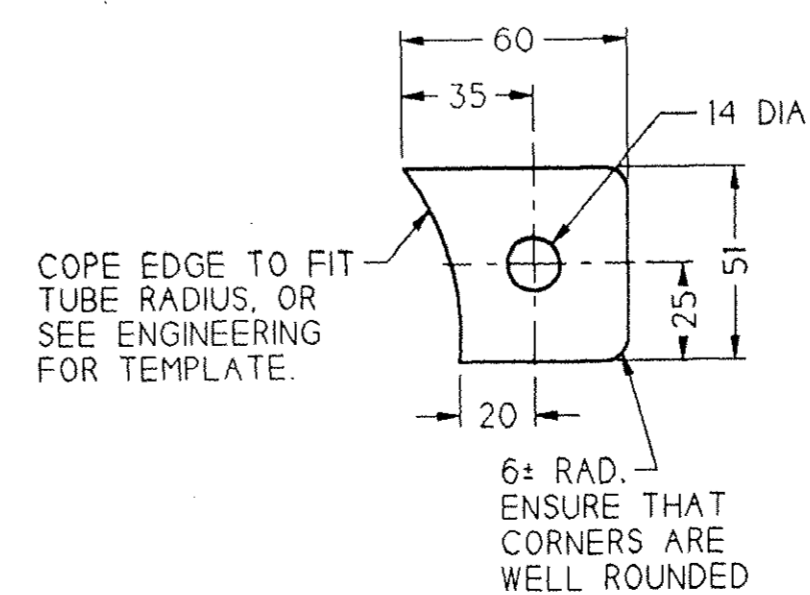
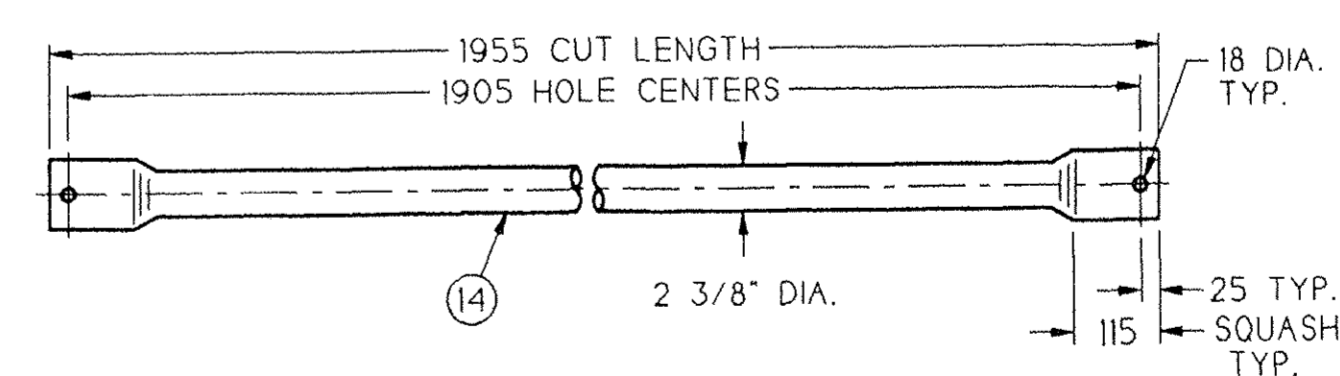


A26 - PEAK AXIAL TUBE



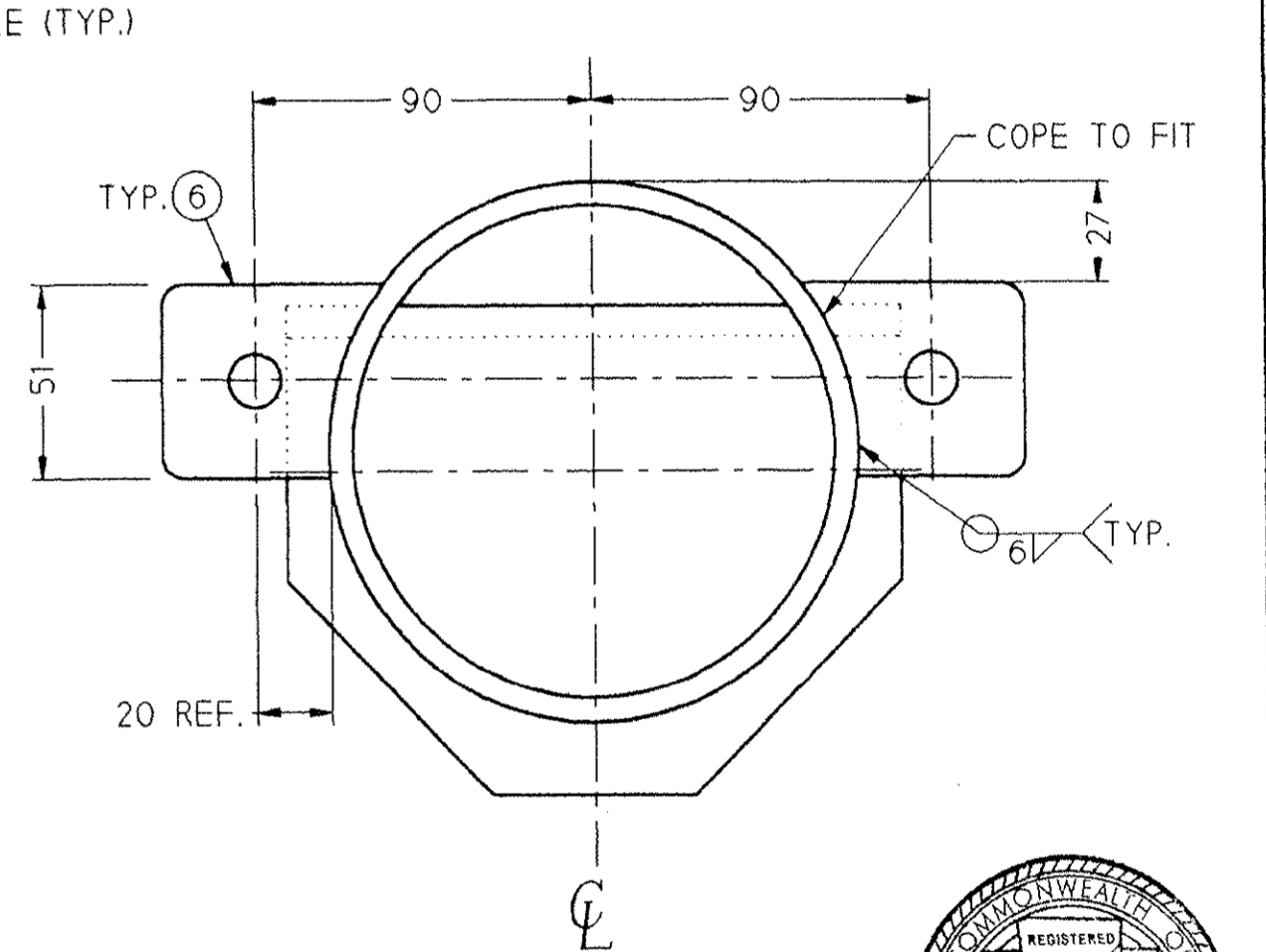
A27 - 24° NON-VALLEY ROOF LONGITUDINAL
ALSO OUTER NODE TUBES

DETAIL 'A'
5x SCALE



ITEM 6
5x SCALE

ITEM	QTY.	DESCRIPTION	SPEC.
1	1	TUBE 4" DIA. x .125" x 1767	A500
2	2	TUBE 4" DIA. x .125" x 1783	A500
3	2	TUBE 1.9" DIA. x .109" x 1955	A500
4	2	TS 3" x 3" x 1/8" x 1835	A36
5	1	ANGLE 2" x 2" x 1/8" x 1783	A36
6	4	FLAT 2" x 1/4" x 60	A36
7	1	TUBE 1.31" x 0.083" x 1955	A500
8	2	FLAT 8" x 5/8" x 91	A36
9	4	FLAT 8" x 5/8" x 92	A36
10	4	FLAT 5" x 3/8" x 68	A36
11	1	ANGLE 2" x 2" x 1/8" x 1835	A36
12	1	TUBE 5 9/16" x 0.188" x 1293	A500
13	2	ANGLE 3" x 5" x 3/8" x 164	A36
14	1	TUBE 2 3/8" DIA. x .120" x 1955	A500
15	-	-	-
16	-	-	-
17	-	-	-
18	-	-	-
19	-	-	-



SECTION 'A-A'
5x SCALE

- NOTES:
- 1) BREAK SHARP CORNERS FOR PVC.
 - 2) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
 - 3) BILL OF MATERIAL IS FOR ONE ASSEMBLY OF EACH.
 - 4) SEE PURLIN PROFILES FOR LOCATION.
 - 5) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.
 - 6) VENT ALL TUBES AS REQUIRED FOR GALVANIZING.
 - 7) ALL A500 MATERIAL TO BE F_y = 50 KSI MINIMUM.

REV.	ADDED ITEM #37	DESCRIPTION	MRB	DATE
1				

COVER THE WORLD
RUBB
BUILDING SYSTEMS

33.5m BVE BILINK / 7m LEG
AXIAL STEEL
6'-9" BAYS

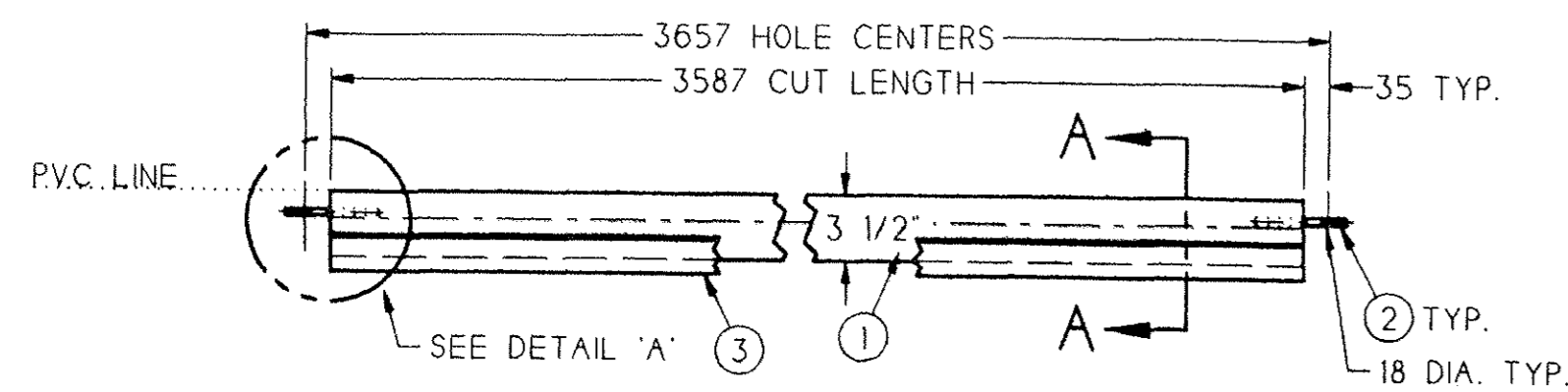
SCALE: 1 : 10

DATE: 8/28/03

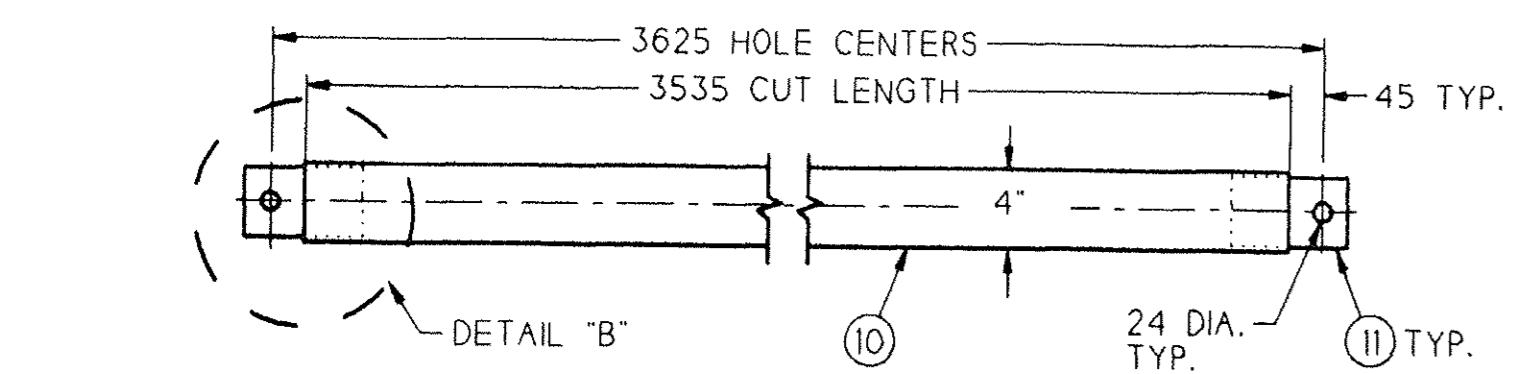
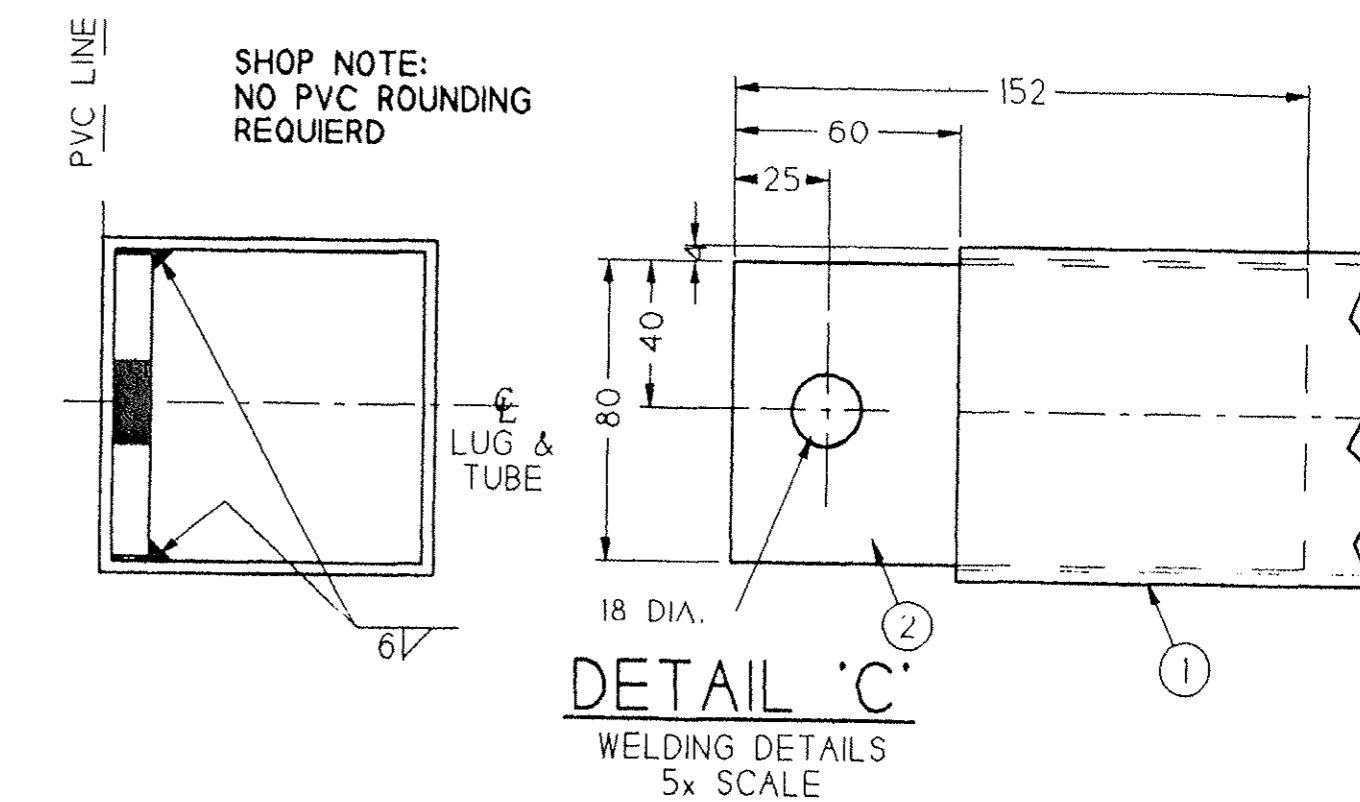
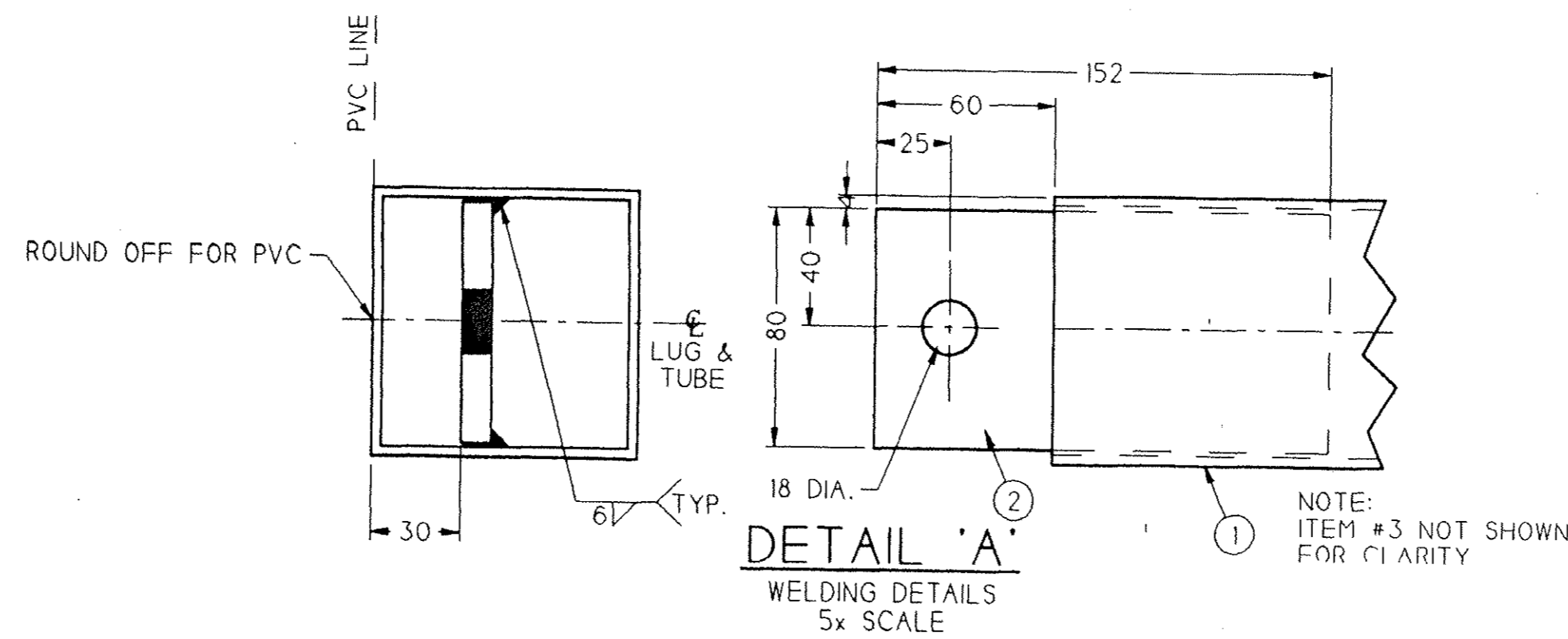
APP: JMG

RUBB, INC. SANFORD MAINE 04073
TEL: 207-324-2877 FAX 207-324-2347

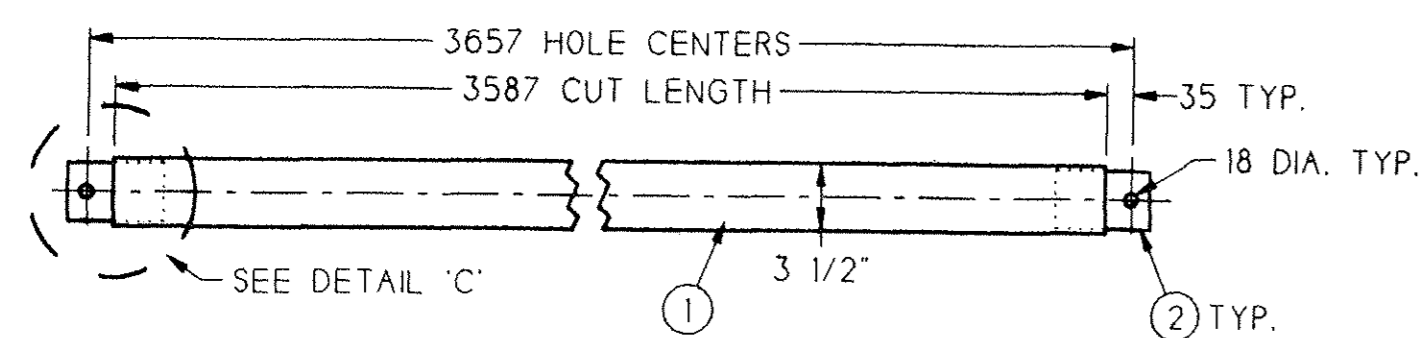
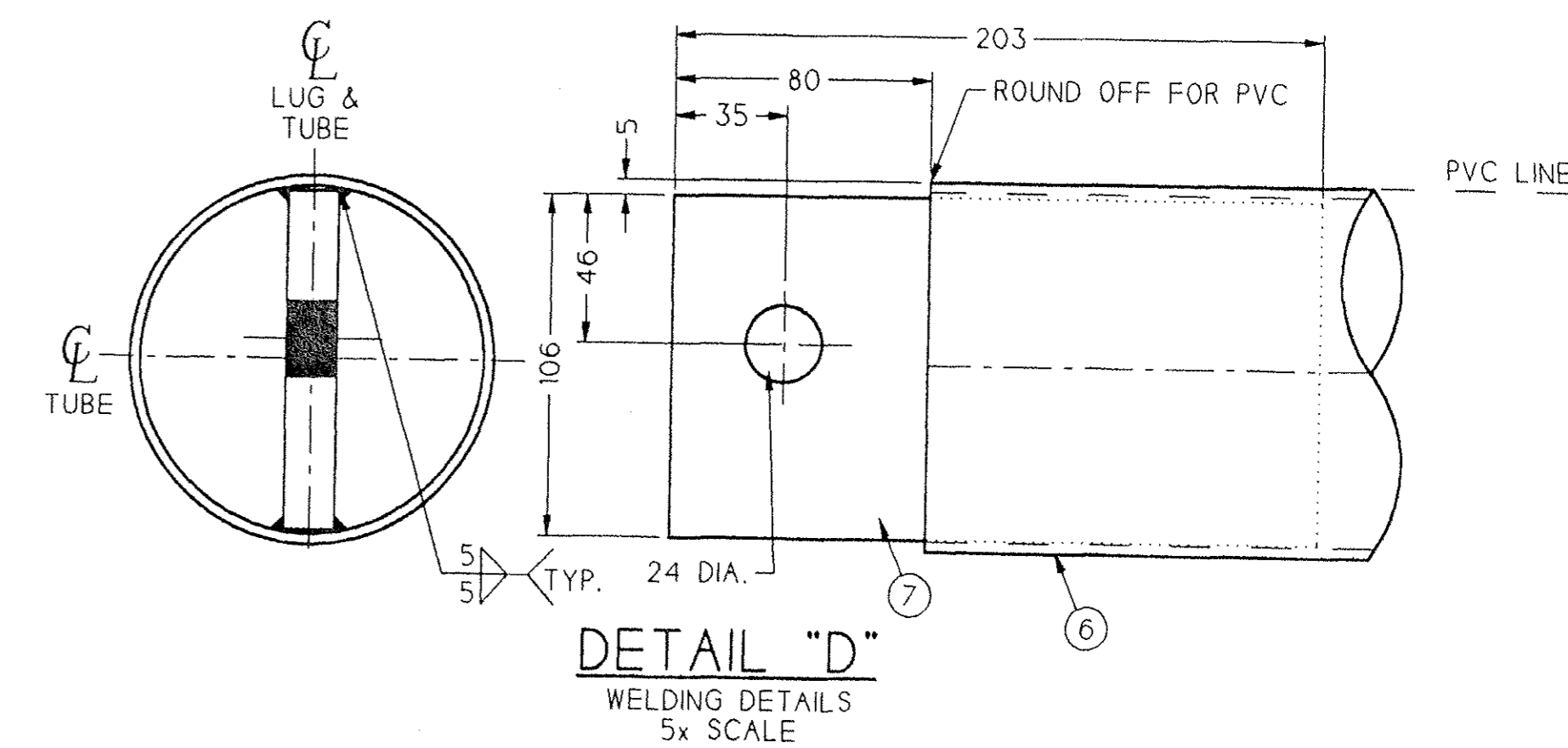
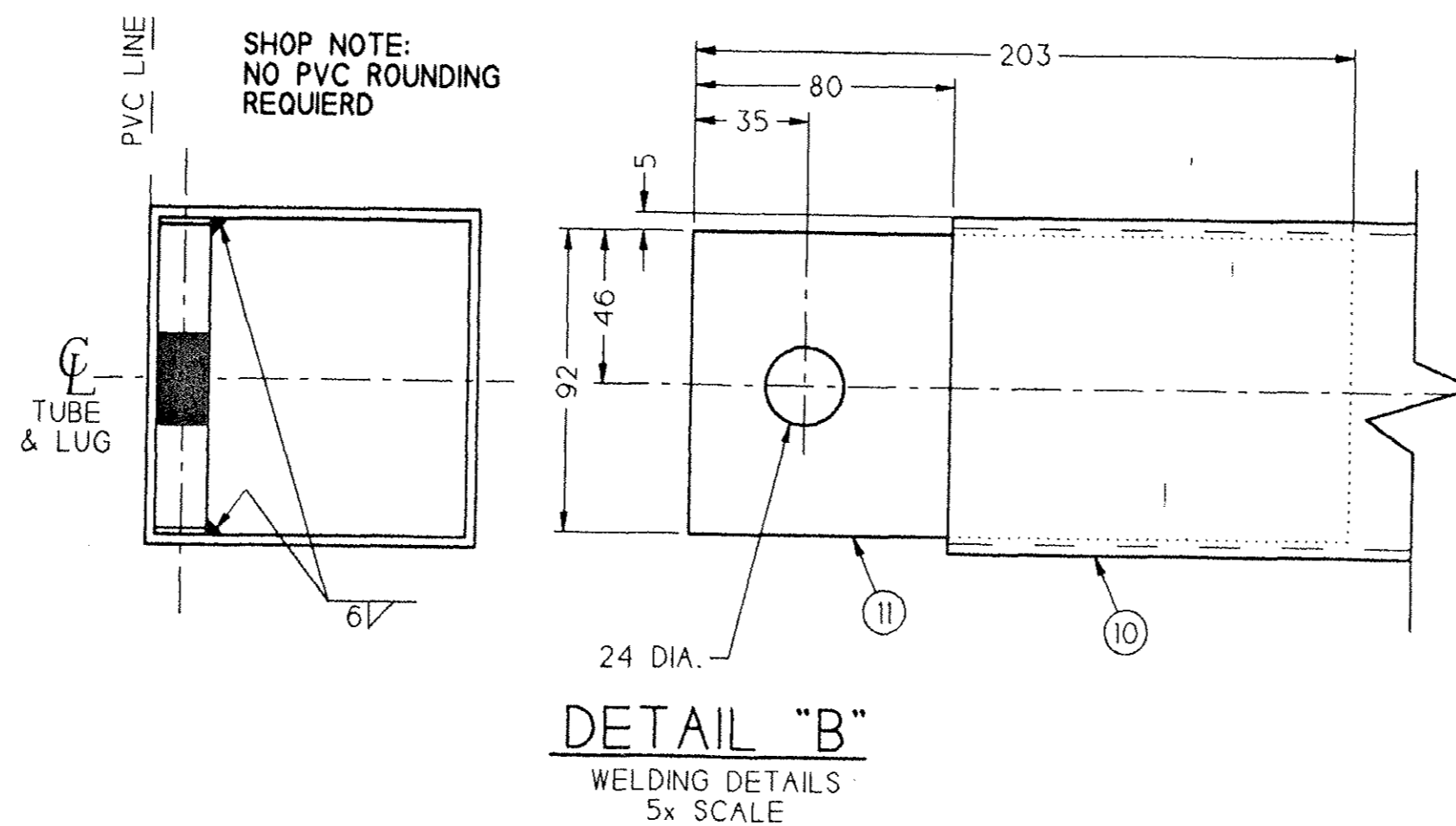
37912



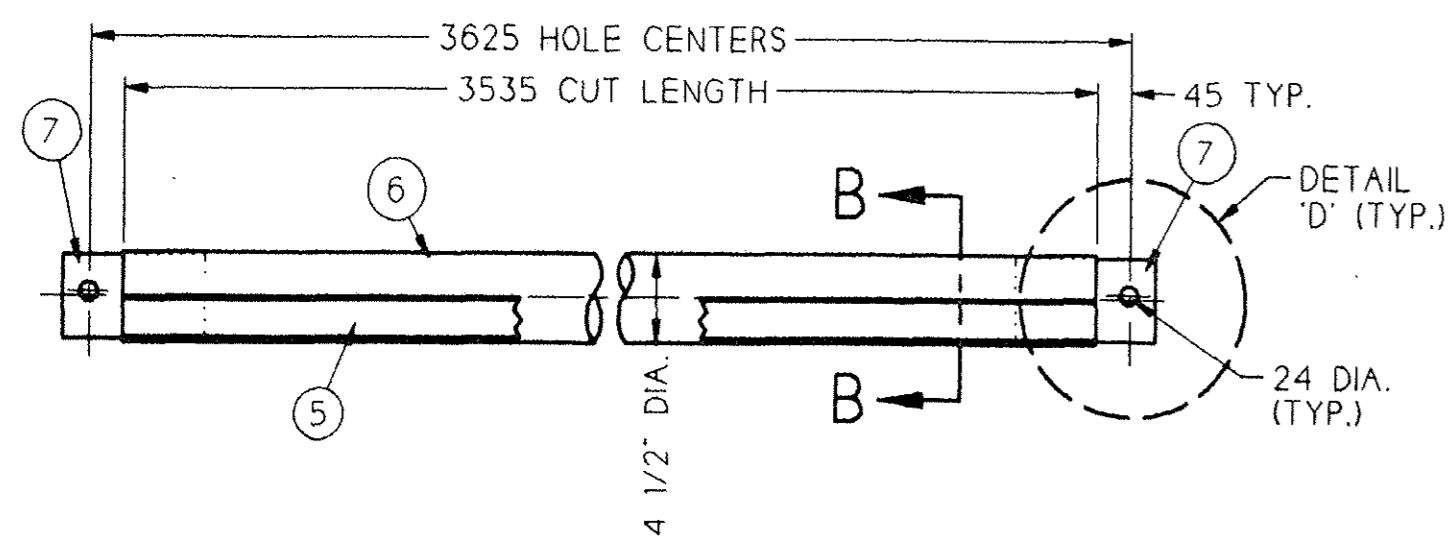
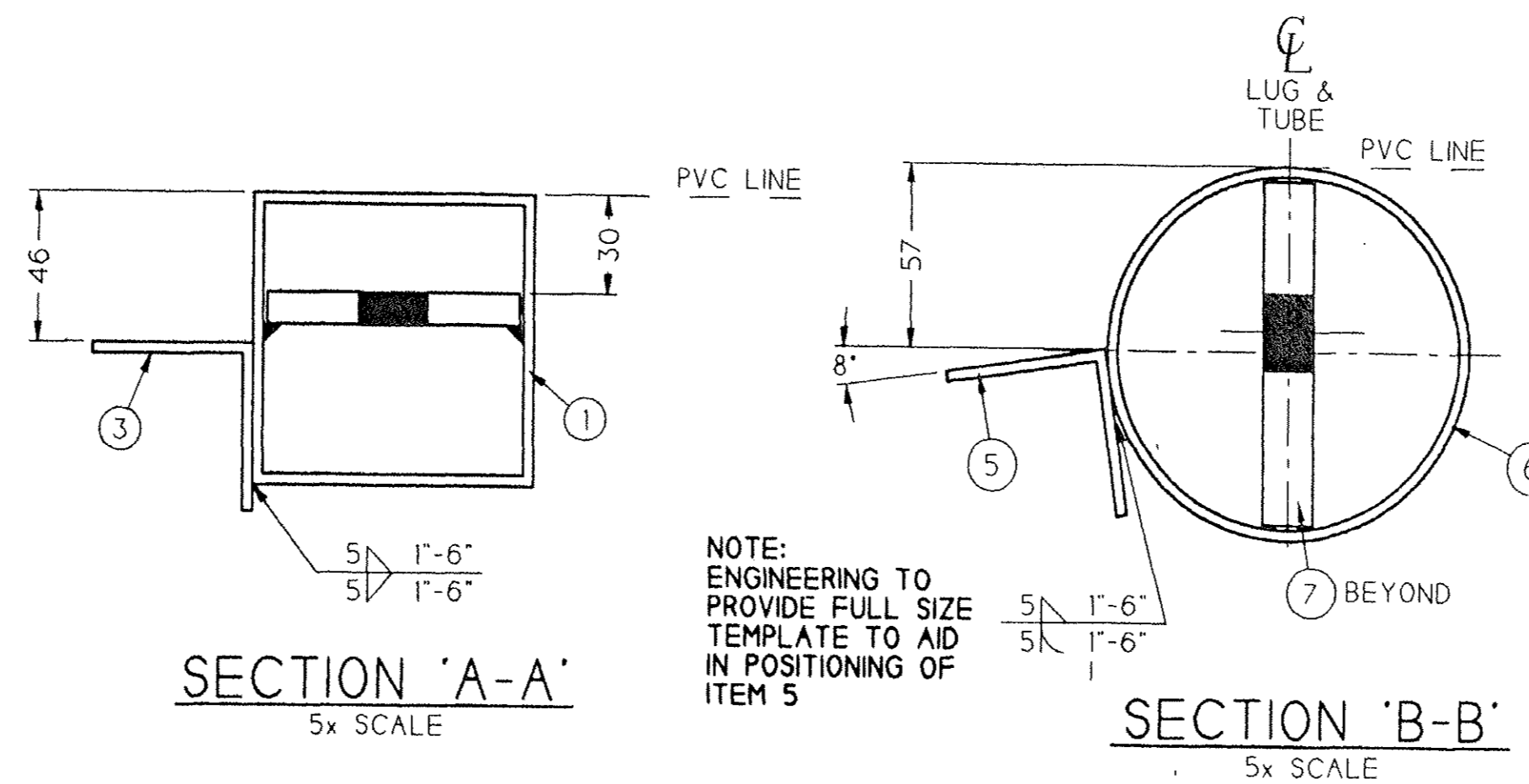
A11 - VALLEY ROOF LONGITUDINAL
w/ CLADDING ANGLE
STEEL CLADDING ATTACHMENT



A12 - VALLEY NON-APEX COMPRESSION TUBE

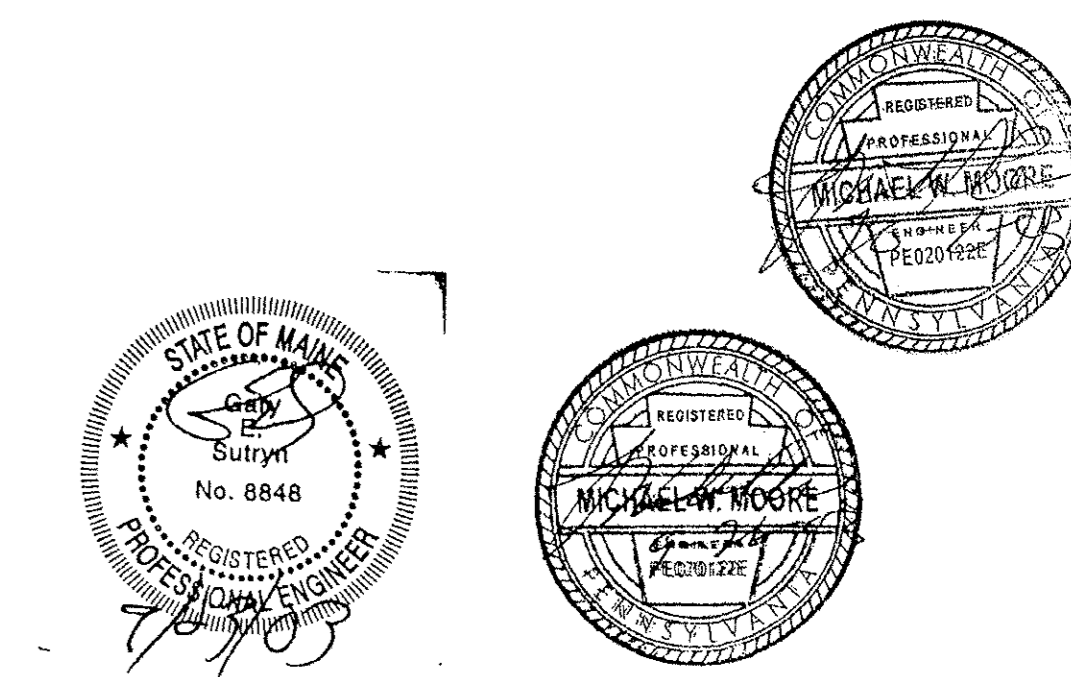


A13 - VALLEY ROOF LONGITUDINAL



A14 - VALLEY NON-PEAK AXIAL TUBE
w/ CLADDING ANGLE
STEEL CLADDING ATTACHMENT

ITEM	QTY.	DESCRIPTION	SPEC.
1	2	TS 3 1/2" x 3 1/2" x 1/8" x 3587	A500
2	4	FLAT 6" x 3/8" x 80	A36
3	1	ANGLE 2" x 2" x 1/8" x 3587	A36
4	-	-	-
5	-	ANGLE 2" x 2" x 1/8" x 3535	A36
6	1	TUBE 4 1/2" DIA. x 0.125" x 3535	A500
7	2	FLAT 8" x 5/8" x 106	A36
8	-	-	-
9	-	-	-
10	1	TS 4" x 4" x 1/8" x 3535	A500
11	2	FLAT 8" x 5/8" x 92	A36
12	-	-	-
13	-	-	-
14	-	-	-
15	-	-	-
16	-	-	-
17	-	-	-
18	-	-	-
19	-	-	-



- NOTES:
- 1.) BREAK SHARP CORNERS FOR PVC.
 - 2.) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
 - 3.) BILL OF MATERIAL IS FOR ONE ASSEMBLY OF EACH.
 - 4.) SEE PURLIN PROFILES FOR LOCATION.
 - 5.) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.
 - 6.) VENT ALL TUBES AS REQUIRED FOR GALVANIZING.
 - 7.) ALL A500 MATERIAL TO BE F_y - 50 ksi MINIMUM.

REV.	DESCRIPTION	MRB	APP.	DATE
A	REMOVED LUG DIMENSION ON A11	MRB	APP.	8/27/03

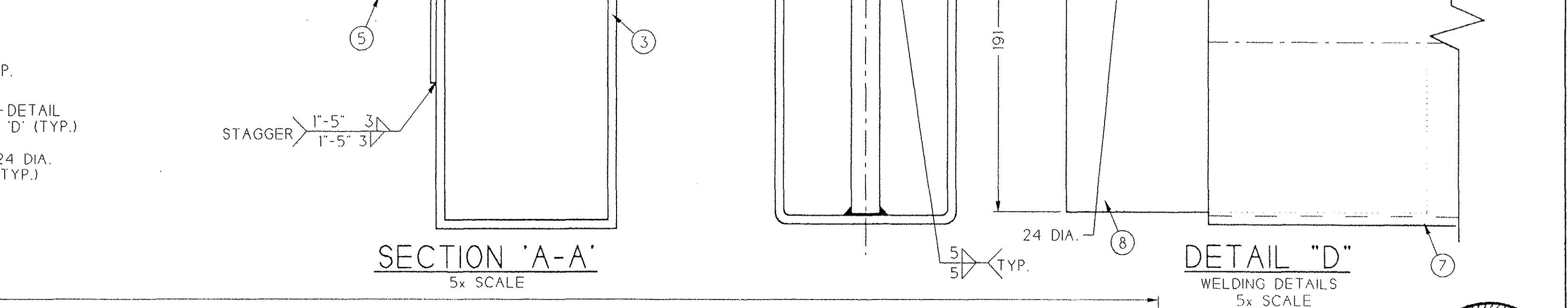
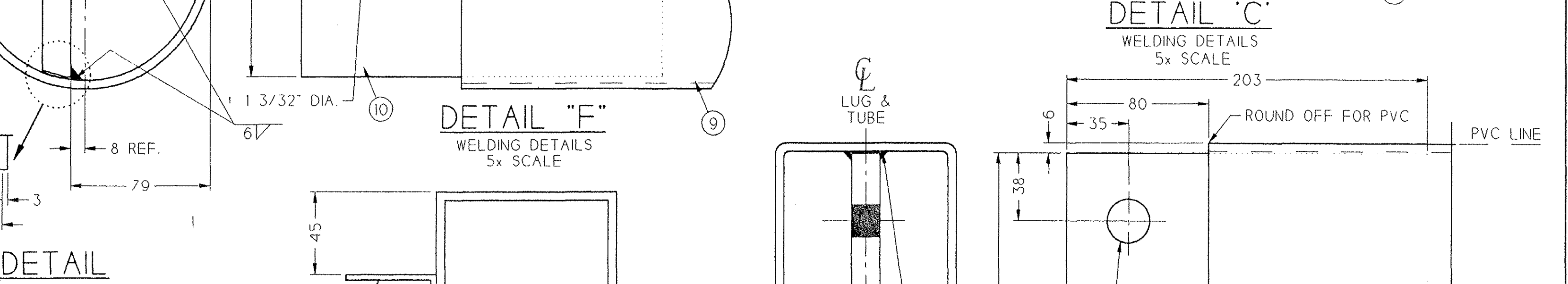
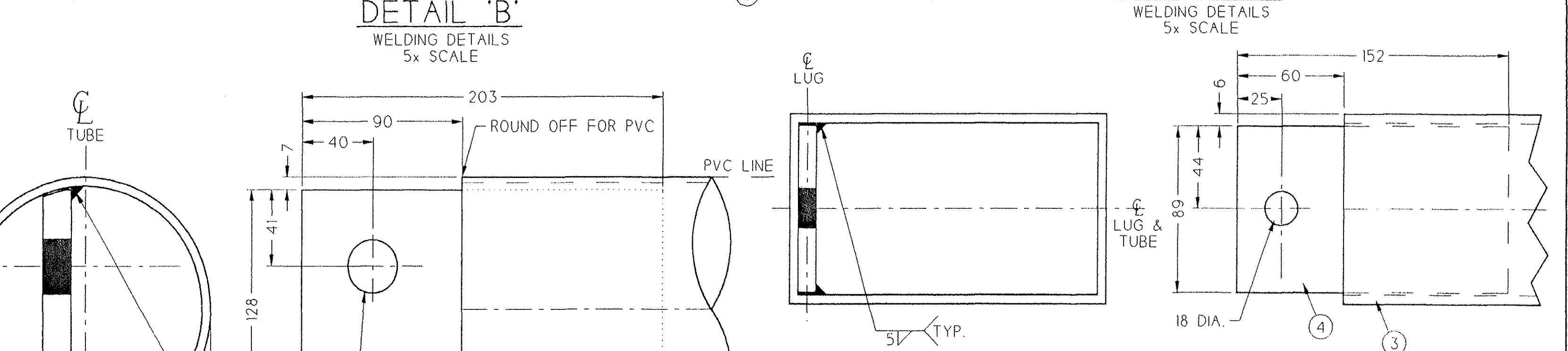
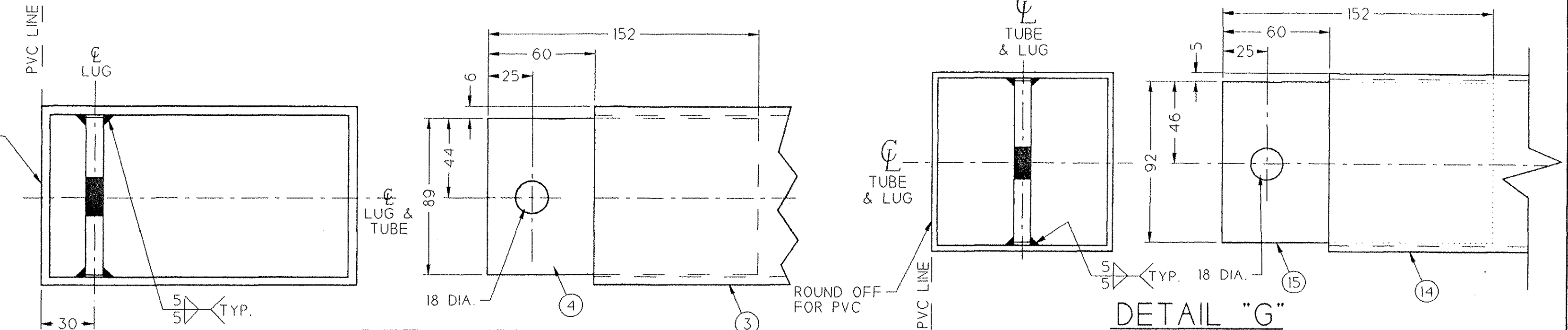
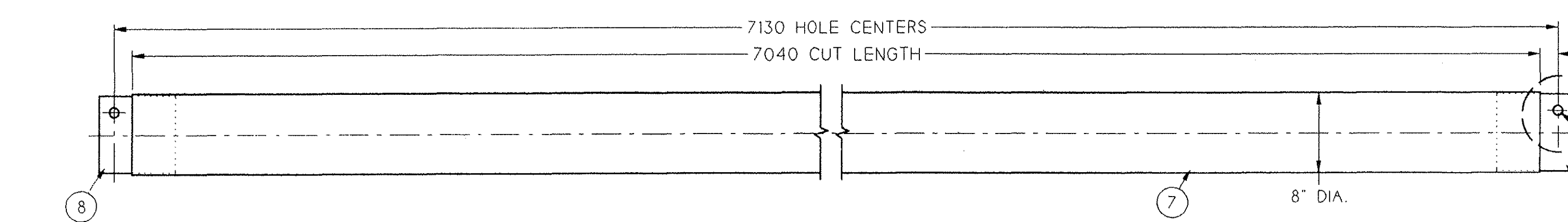
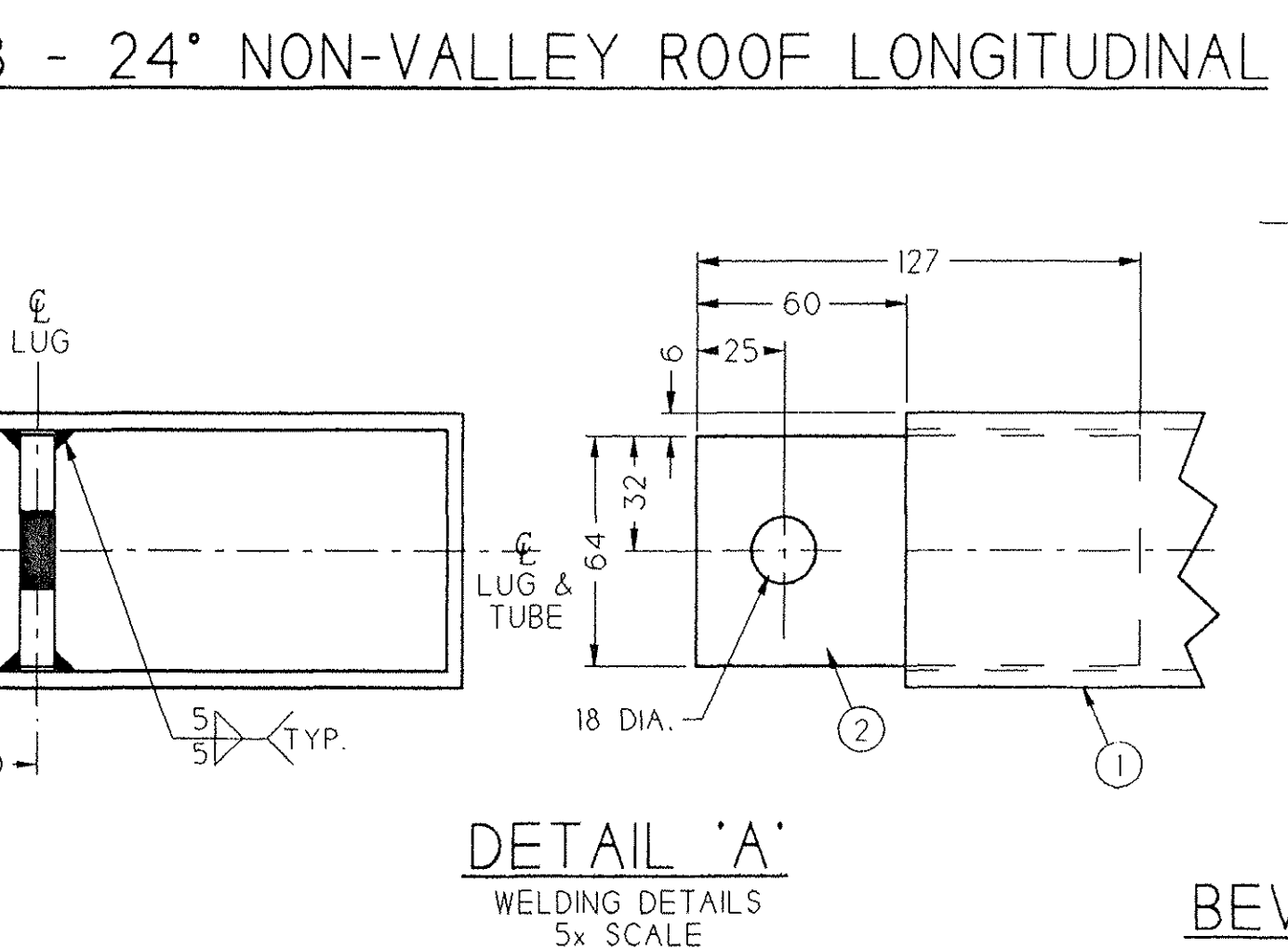
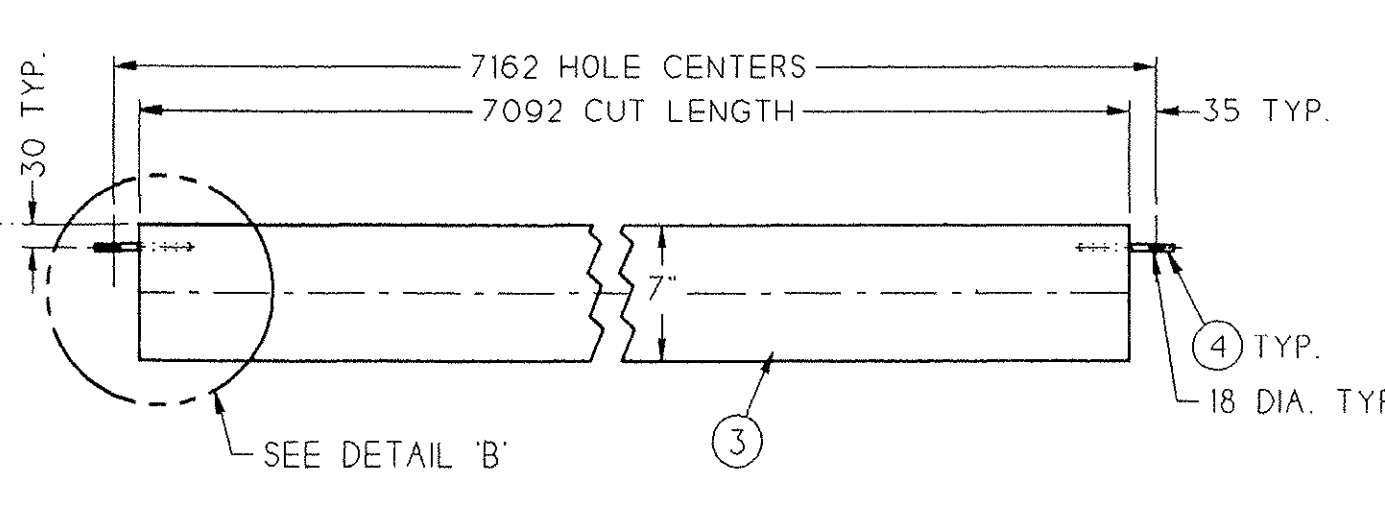
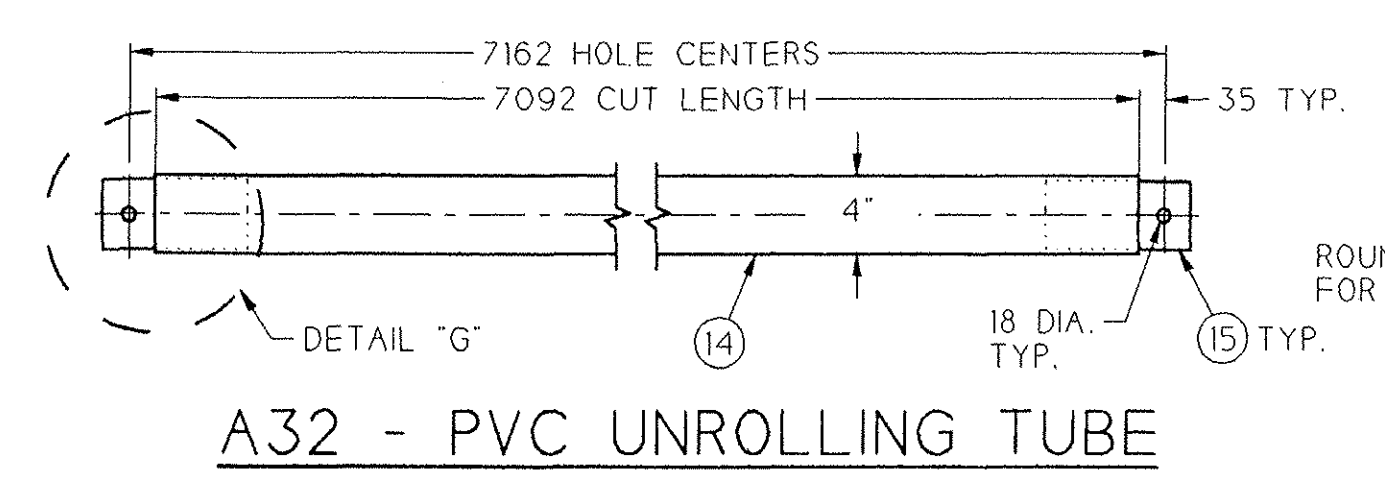
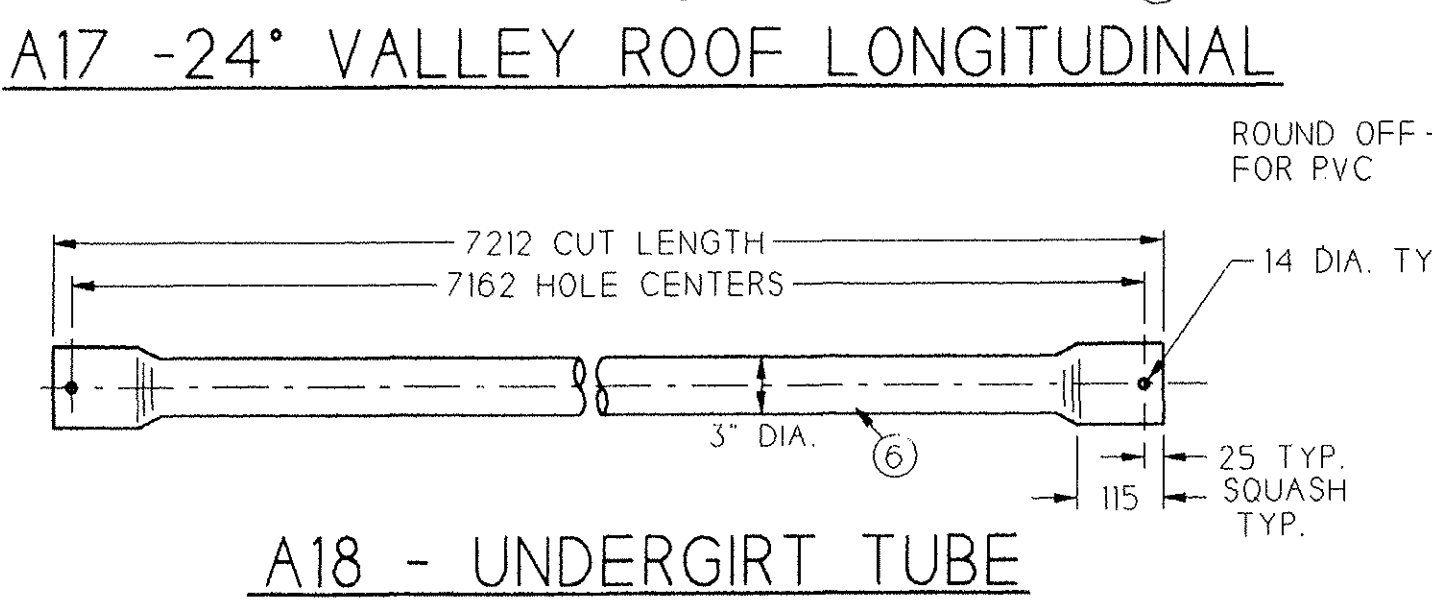
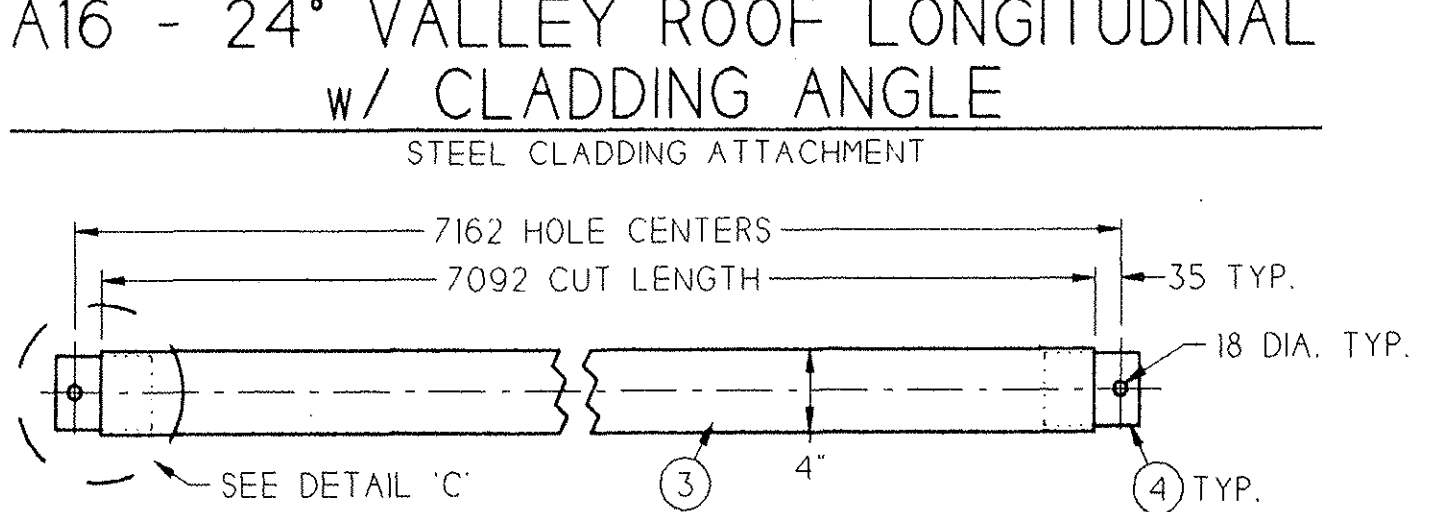
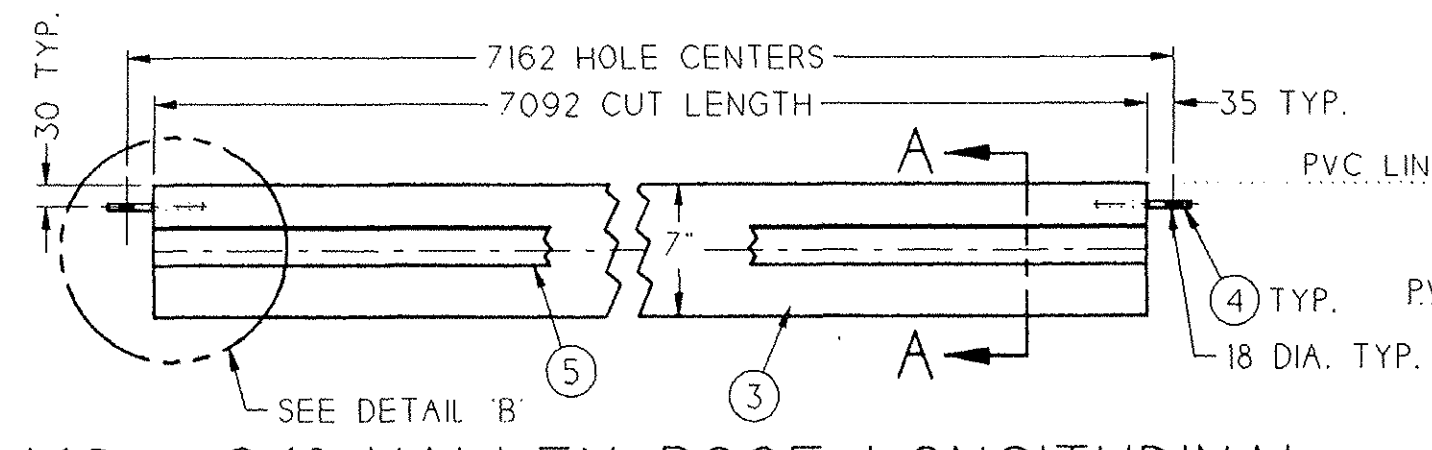
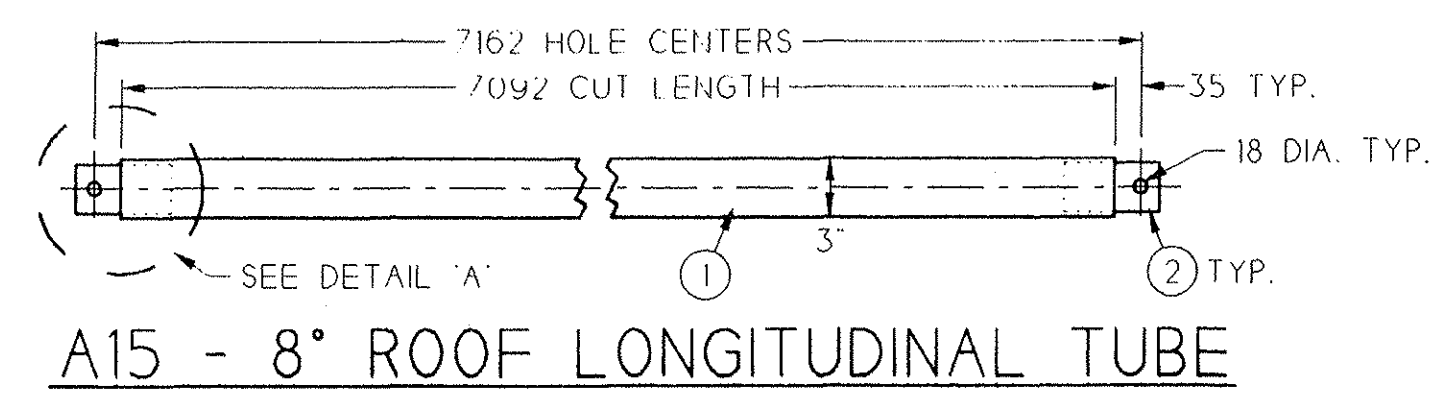
We Cover The World
RUBB
BUILDING SYSTEMS

33.5m BVE BILINK / 7m LEG
VALLEY AXIAL STEEL
12'-6" BAYS

MRB 8/19/03 SCALE 1 : 10
APP. Ges 8,26,03 JOB # 03088
DATE DATE JOB NOVE JMG

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RUBB, INC. SANFORD MAINE 04073
TEL: 207-324-2877 FAX 207-324-2347



- NOTES:
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 - 3) BILL OF MATERIAL IS FOR ONE ASSEMBLY OF EACH.
 - 4) SEE PURLIN PROFILES FOR LOCATION.
 - 5) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.
 - 6) VENT ALL TUBES AS REQUIRED FOR GALVANIZING.
 - 7) ALL A500 MATERIAL TO BE F_y = 50 ksi MINIMUM.

ITEM	QTY.	DESCRIPTION	SPEC.
1	1	TS 6" x 3" x 3/16" x 7092	A500
2	2	FLAT 5" x 3/8" x 64	A36
3	3	TS 7" x 4" x 3/16" x 7092	A500
4	6	FLAT 6" x 3/8" x 89	A36
5	1	ANGLE 2" x 2" x 1/8" x 7092	A36
6	1	TUBE 3" DIA. x 0.120" x 7212	A500
7	1	TS 8" x 4" x 3/16" x 7040	A500
8	2	FLAT 8" x 5/8" x 191	A36
9	1	TUBE 5 9/16" DIA. x 188" x 7025	A500
10	2	FLAT 8" x 5/8" x 128	A36
11	1	TUBE 1 9/16" DIA. x .109" x 109	A500
12	2	TUBE 1 9/16" DIA. x .109" x 109	A500
13	4	TUBE 1 9/16" DIA. x .109" x 109	A500
14	1	TS 4" x 4" x 1/8" x 7092	A500
15	2	FLAT 6" x 3/8" x 92	A36
16	-	-	-

REV. DESCRIPTION DRAWN APP. DATE

We Cover The World

RUBB BUILDING SYSTEMS

33.5m BVE BILINK / 7m LEG NON-PEAK & VALLEY AXIAL STEEL 24'-0" BAYS

SCALE: 1 : 10

DATE: 8/19/03

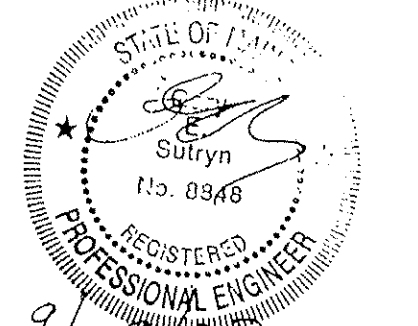
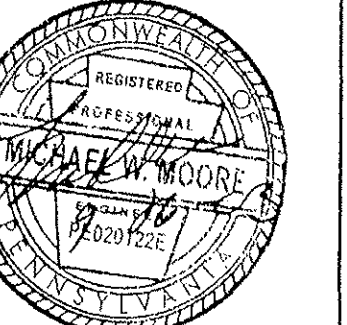
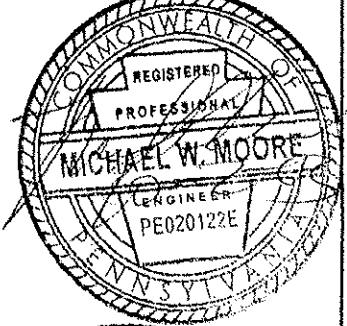
JOB NO: 03088

JOB NAME: JMG

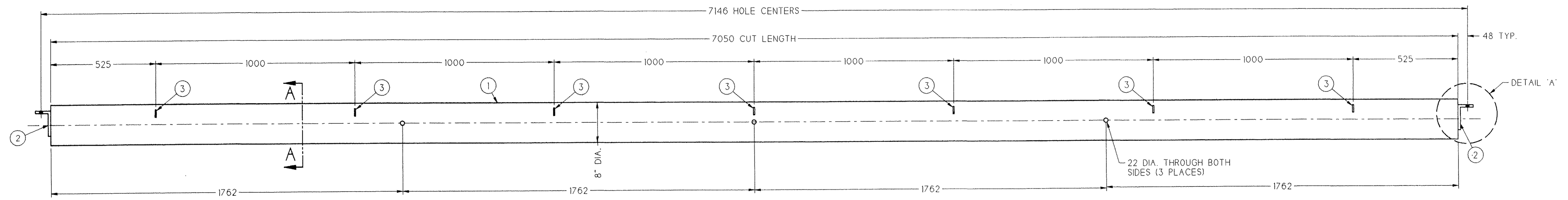
RUBB, INC. SANFORD MAINE 04073
TEL: 207-324-2877 FAX 207-324-2347

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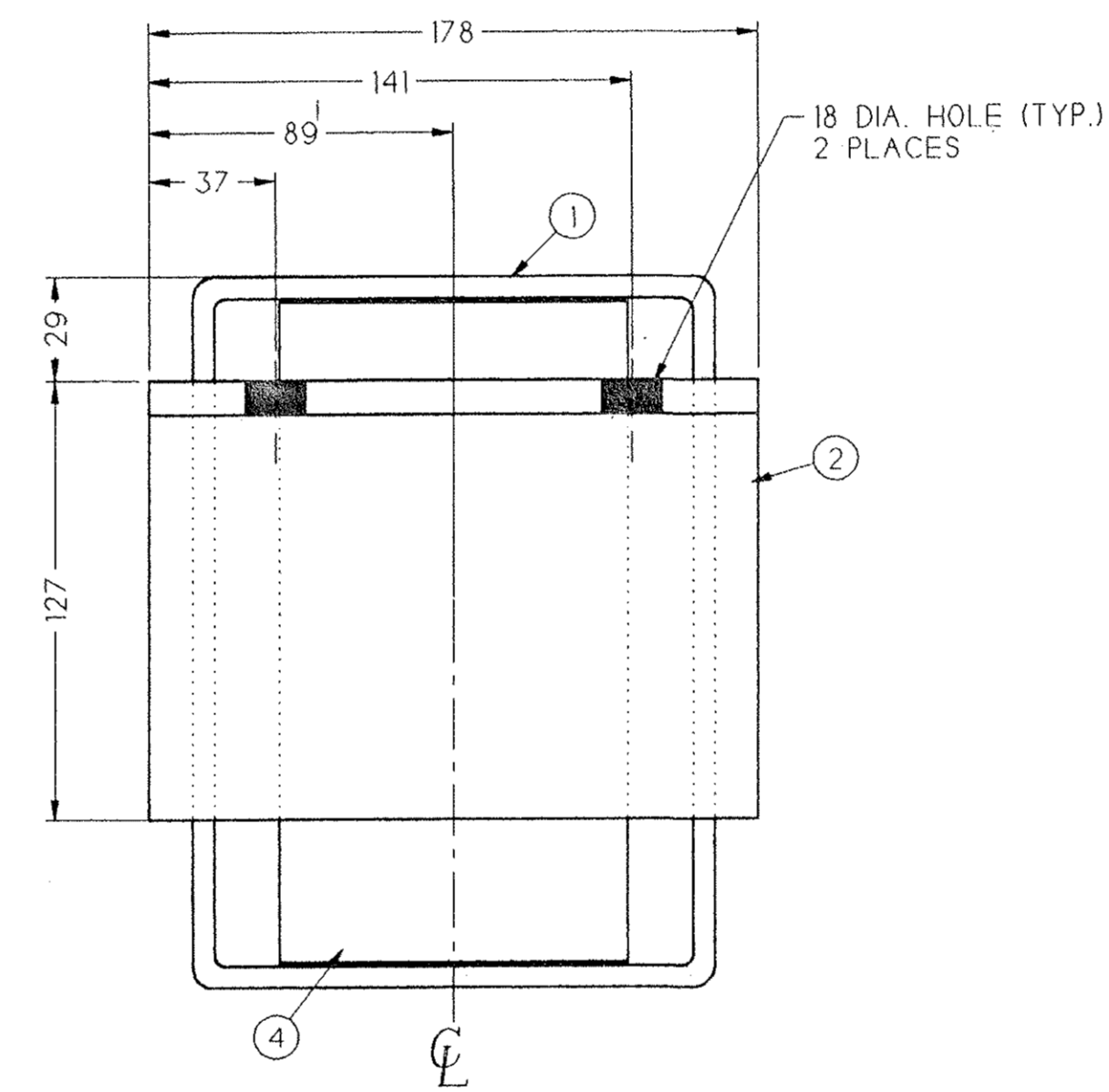
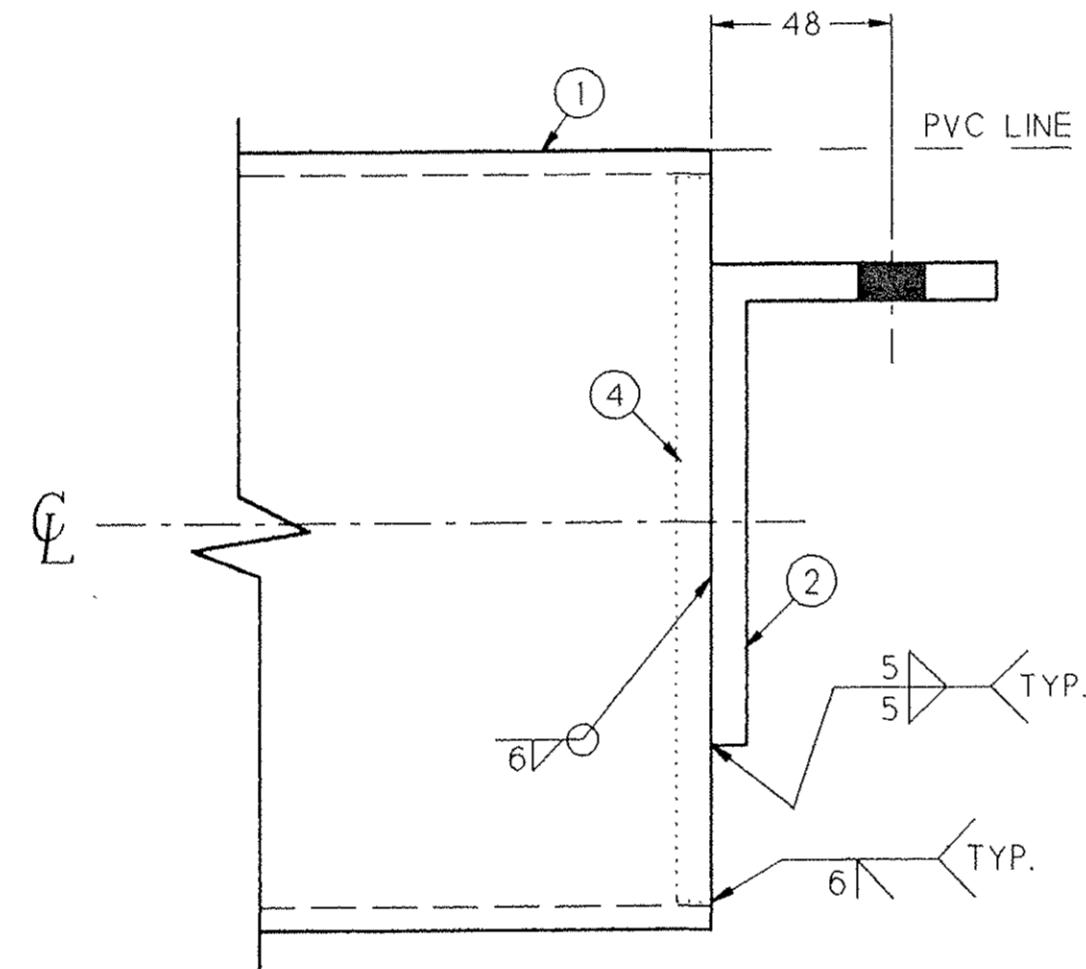
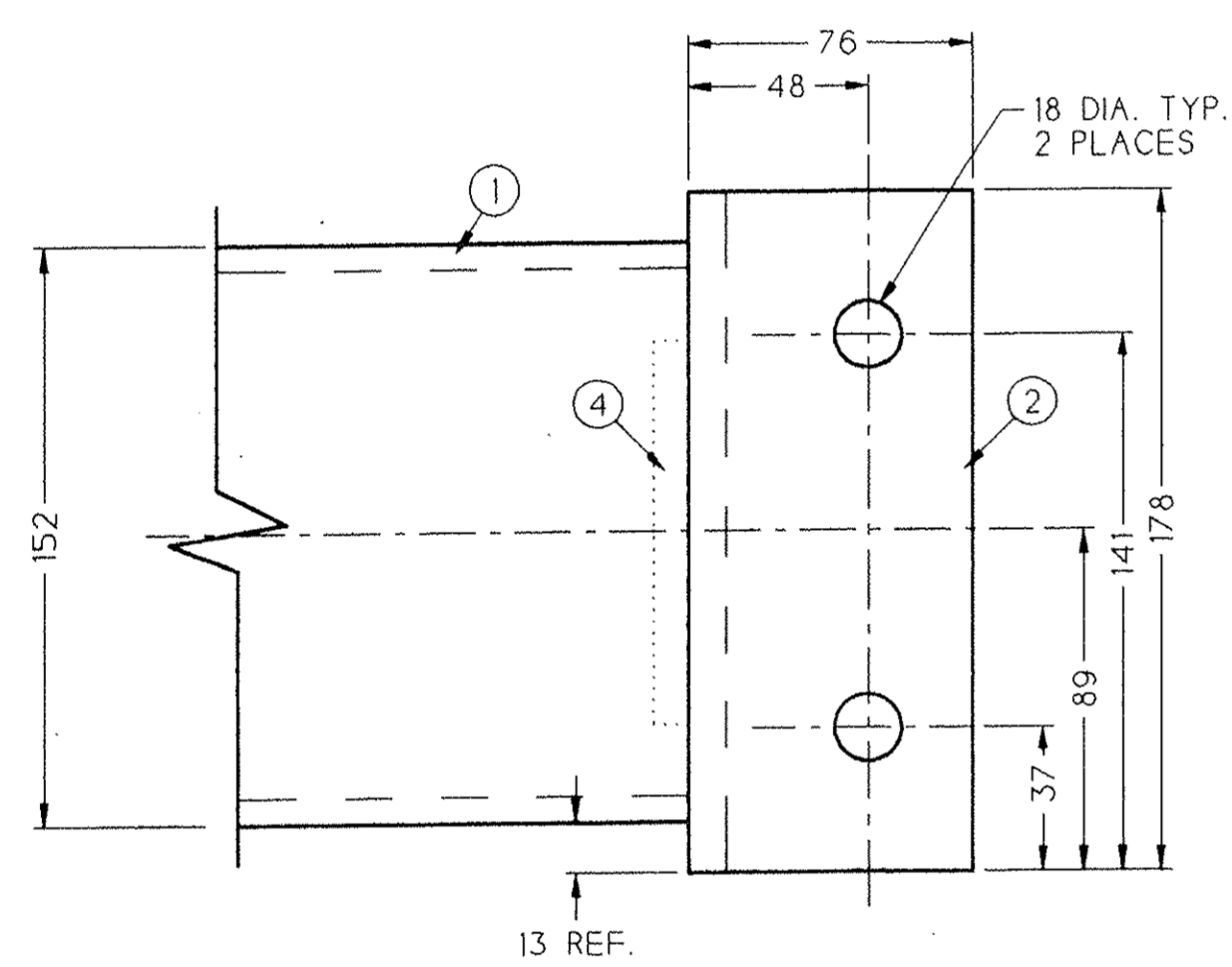
DRAWING NO: 37914



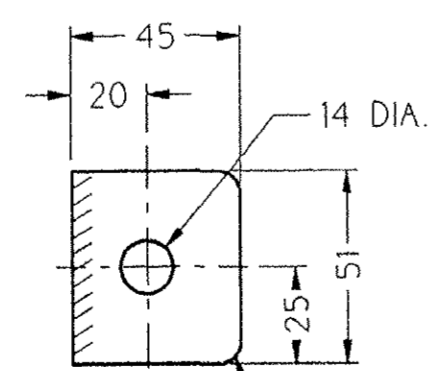
9/23/03



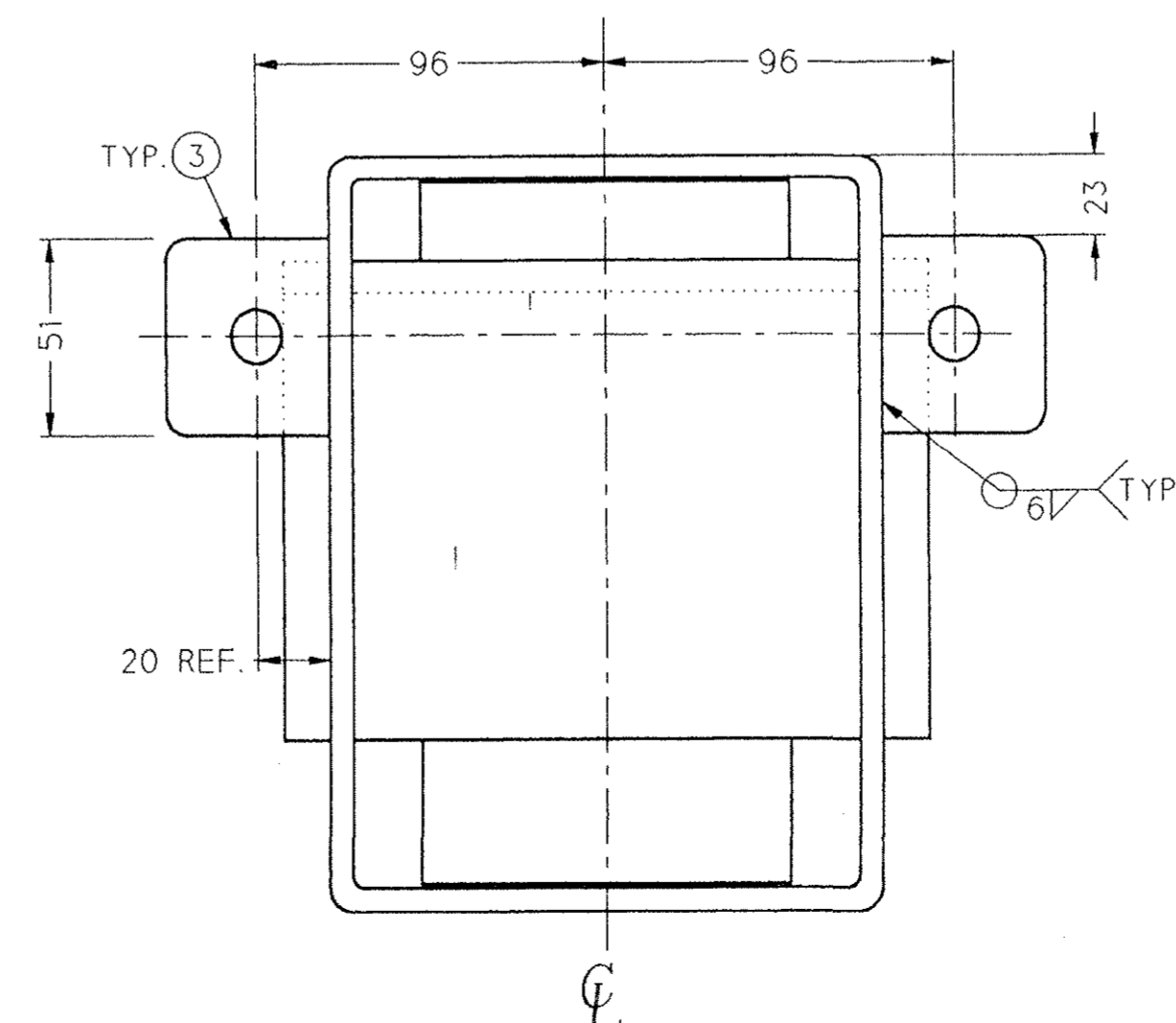
PEAK AXIAL TUBE - A29



DETAIL 'A'
5x SCALE



ITEM 3
5x SCALE



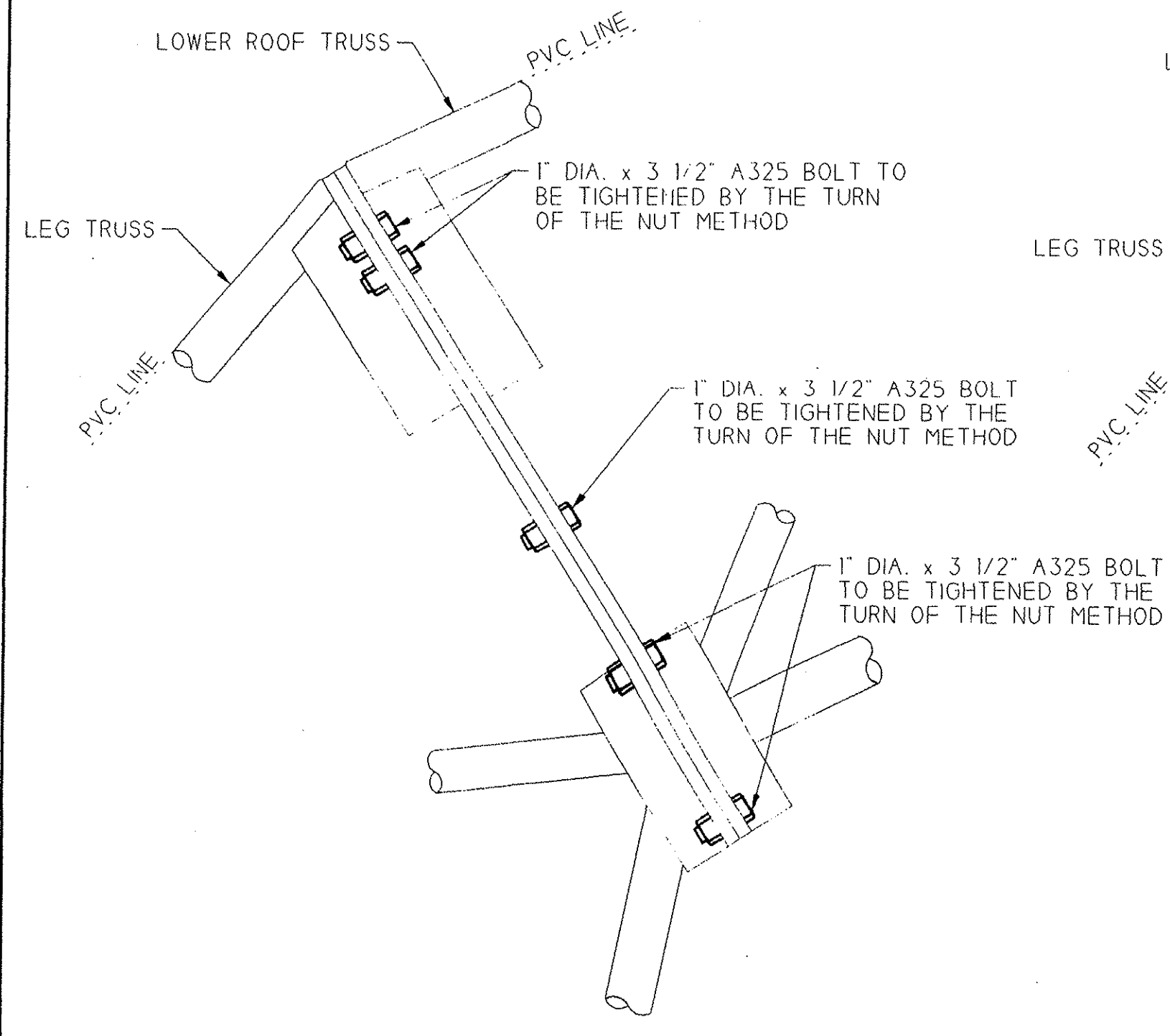
SECTION 'A-A'
5x SCALE



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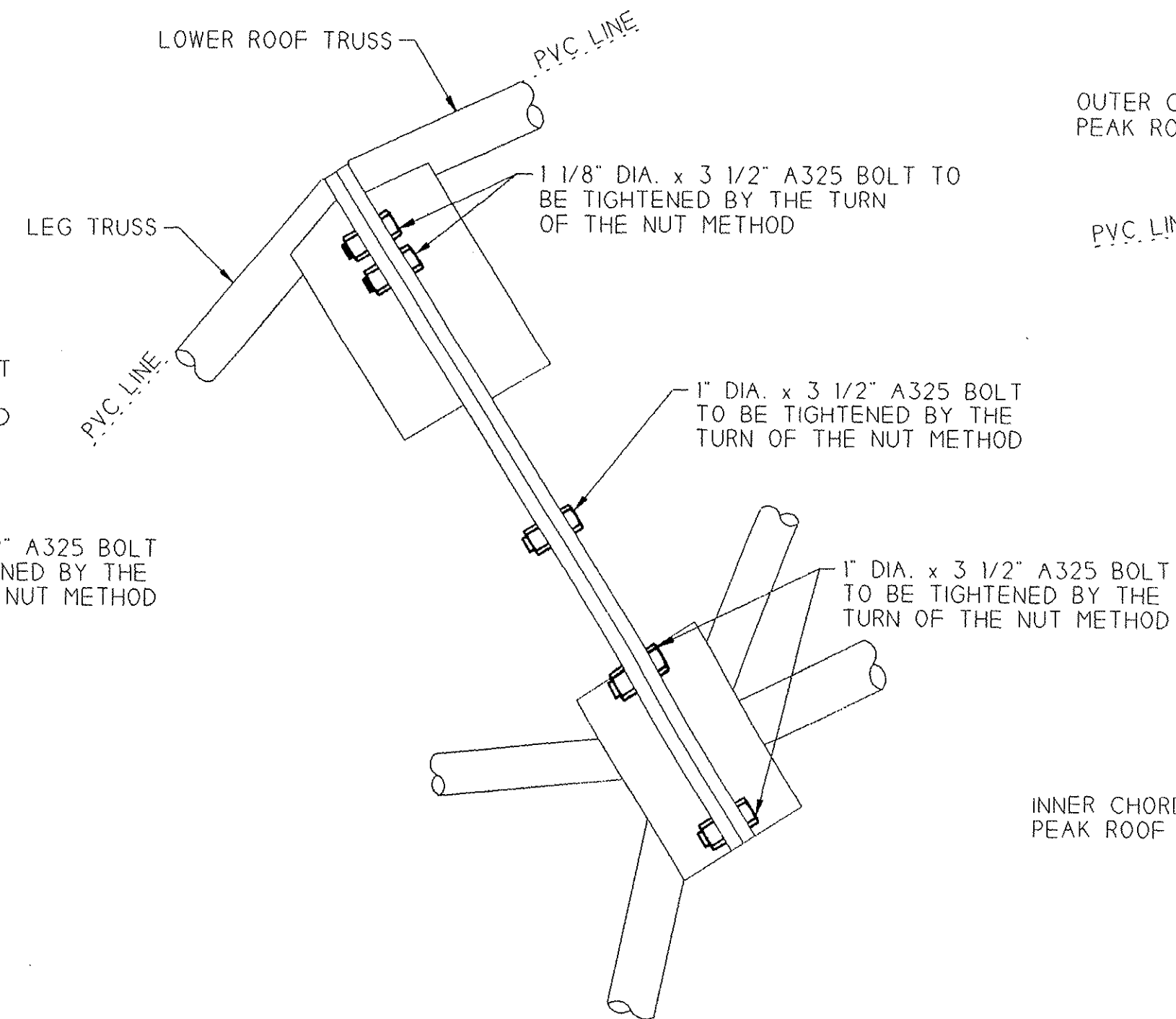
ITEM	QTY.	DESCRIPTION	SPEC.
1	1	TS 8 x 6 x 0.25" x 7050	A500
2	2	ANGLE 3" x 5" x 3/8" x 178	A36
3	14	FLAT 2" x 1/4" x 45	A36
4	2	FLAT 4" x 3/8" x 188	A36
5	-	-	-

REV.	DESCRIPTION	DRAWN	APP.	DATE
1	We Cover The World RUBB BUILDING SYSTEMS			
TITLE 33.5m BVE BILINK / 7m LEG PEAK AXIAL STEEL 24'-0" BAYS		SCALE 1 : 10		
DRAWN MRB 8/14/03		JOB # 03088		This drawing is the property of Rubb, Inc. and may not be reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.
DATE 8/29/03		JOB NAME JMG		
RUBB, INC. SANFORD MAINE 04073 TEL: 207-324-2877 FAX 207-324-2347				DRAWING NO. 37915



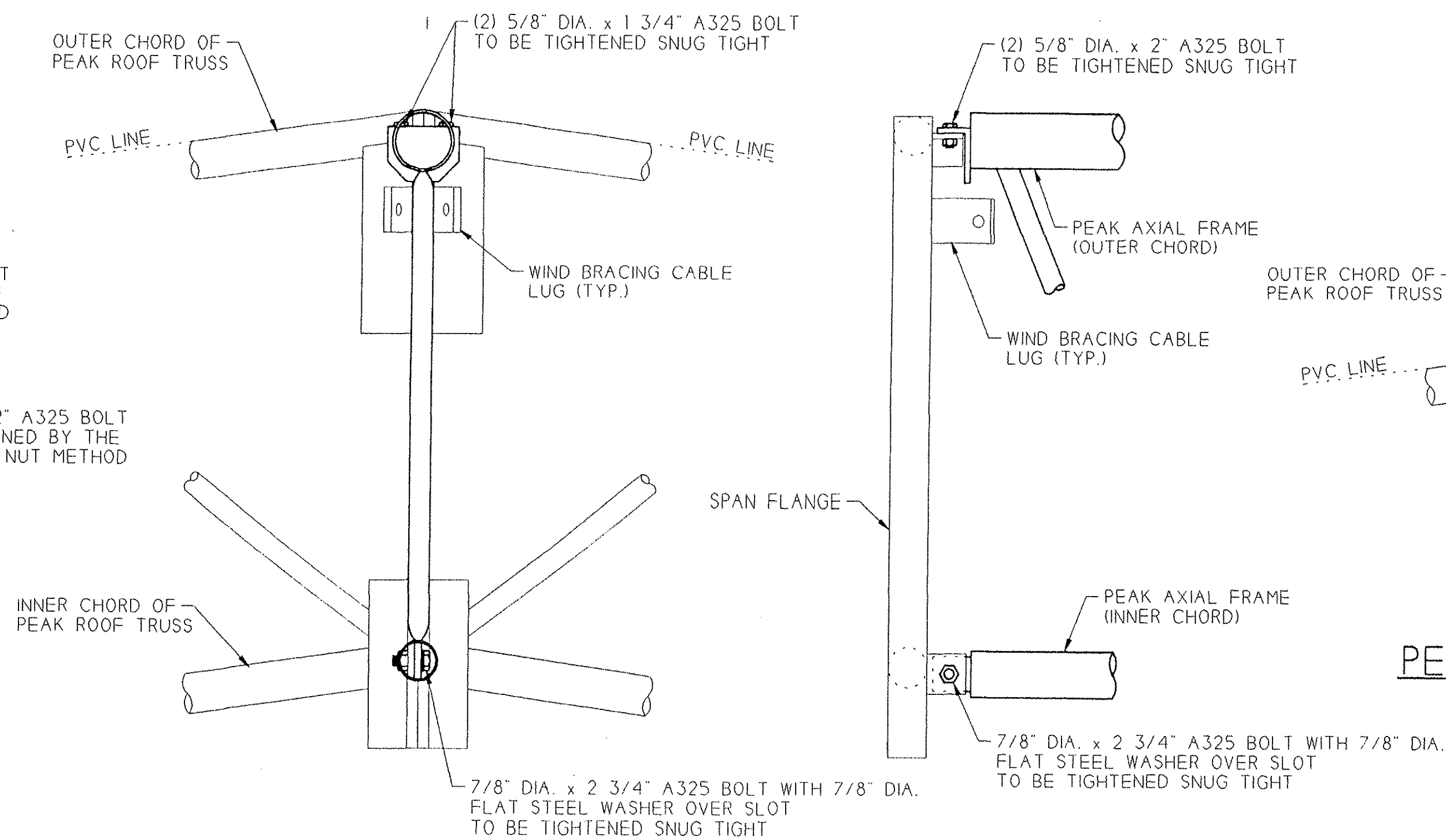
**FLANGE CONNECTIONS FOR
12'-6" & 6'-9" SPAN TRUSS SECTIONS**

CONNECTION OF LEG TRUSS TO LOWER ROOF TRUSS SHOWN
CONNECTION OF LOWER ROOF TRUSS TO UPPER ROOF TRUSS SIMILAR
LOWER ROOF TO YOKE ALSO SIMILAR



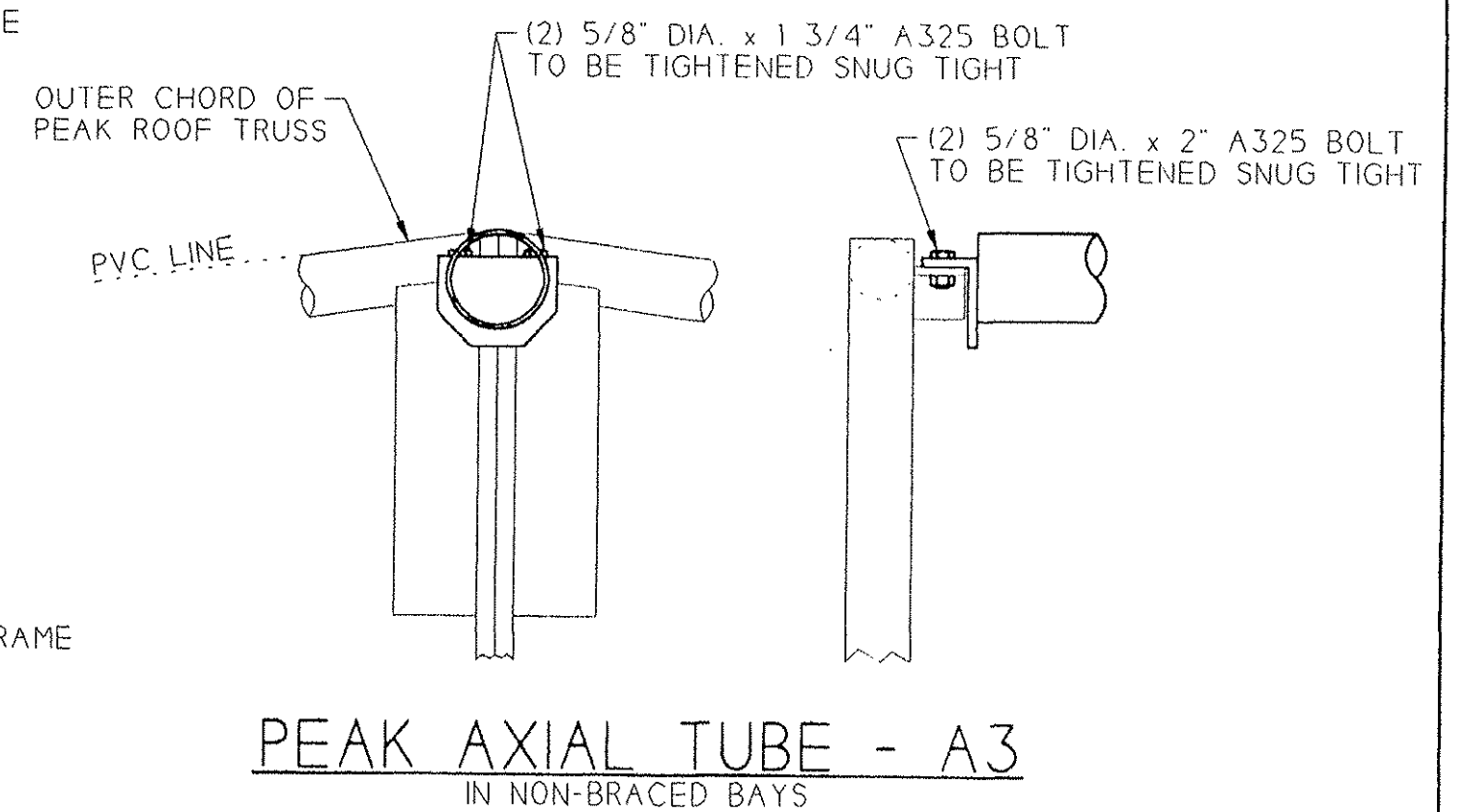
**FLANGE CONNECTIONS FOR
24'-0" SPAN TRUSS SECTIONS**

CONNECTION OF LEG TRUSS TO LOWER ROOF TRUSS SHOWN
CONNECTION OF LOWER ROOF TRUSS TO UPPER ROOF TRUSS SIMILAR
LOWER ROOF TO YOKE ALSO SIMILAR

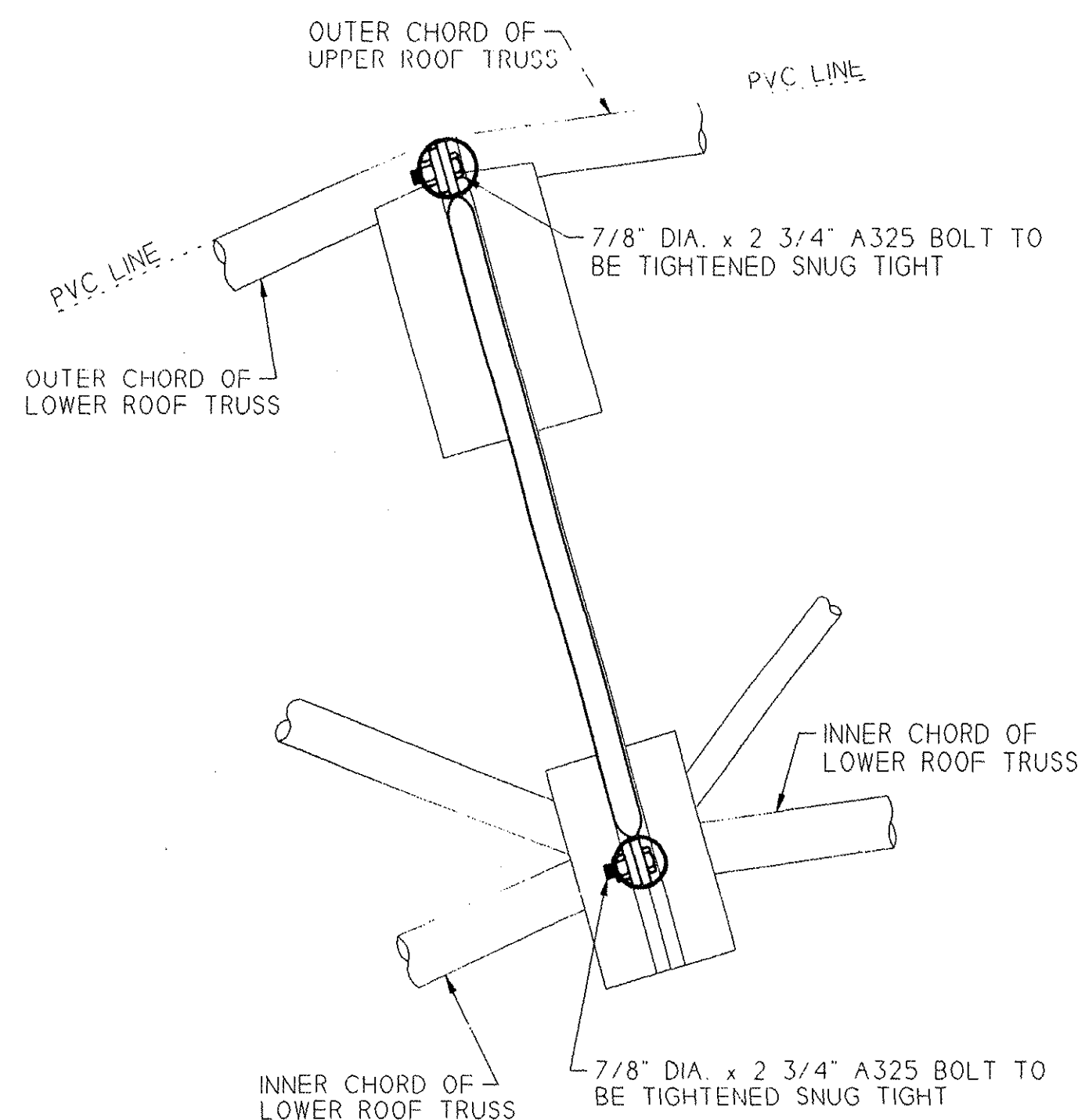


PEAK AXIAL FRAME - A2

NON END BRACED BAY SHOWN
END BRACED BAY SAME EXCEPT USE A1

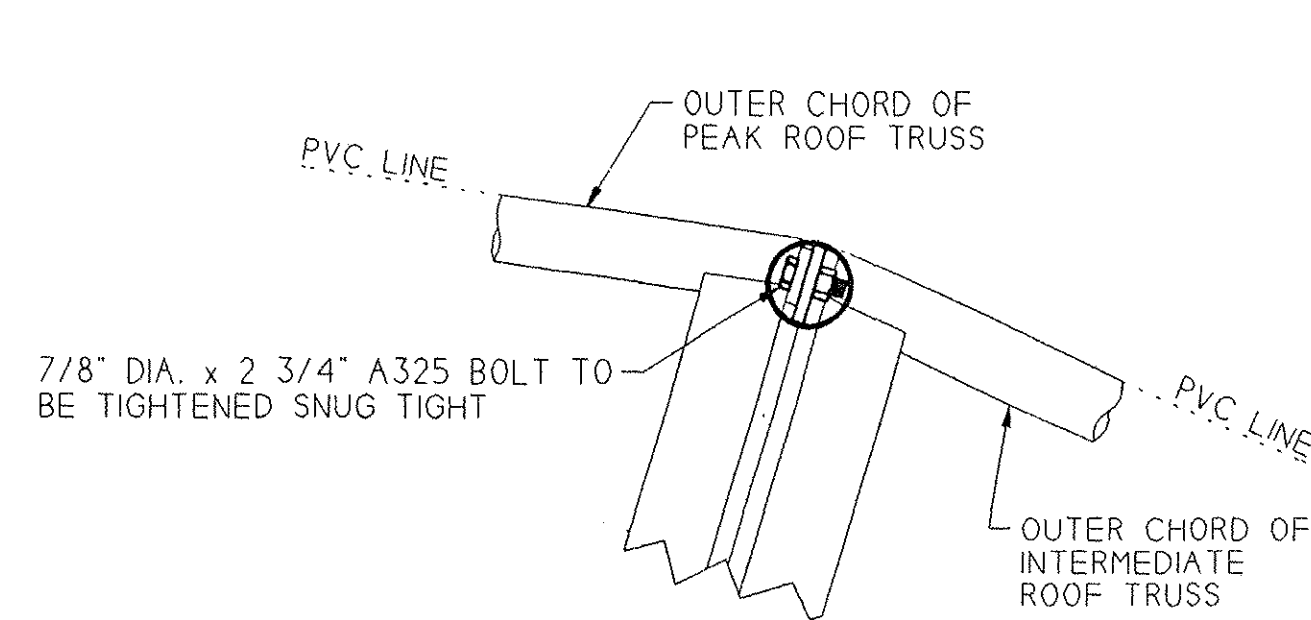


**PEAK AXIAL TUBE - A3
IN NON-BRACED BAYS**



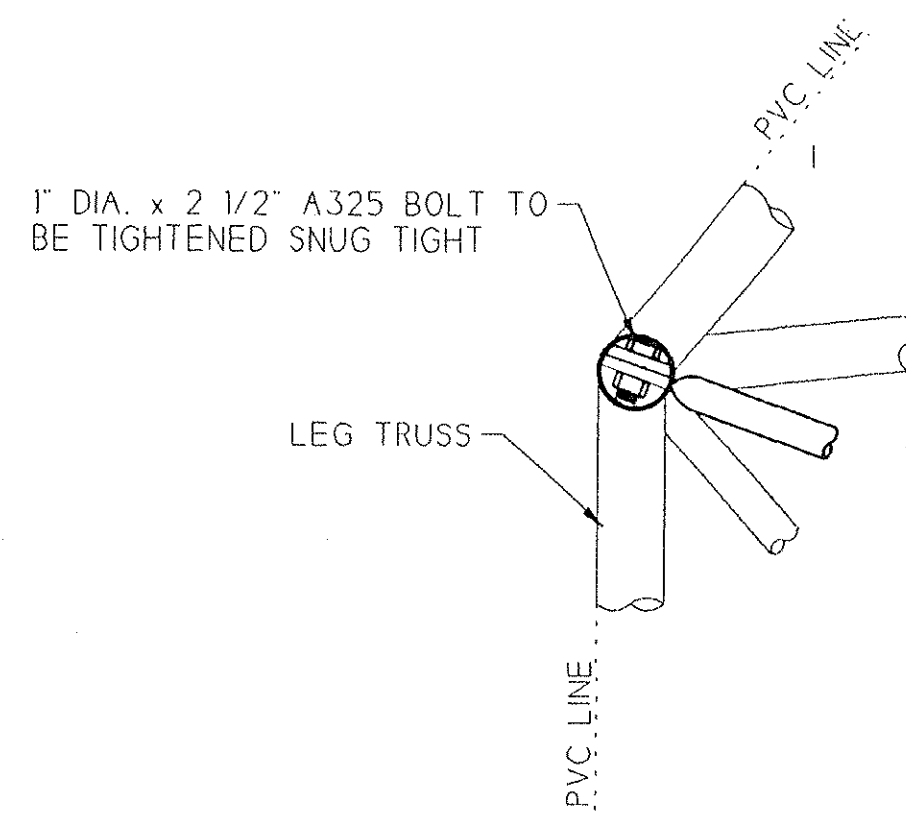
NON PEAK AXIAL FRAME - A4

LOWER ROOF / UPPER ROOF POSITION SHOWN
LEG TRUSS / LOWER ROOF POSITION SIMILAR
LOWER ROOF / YOKE POSITION SIMILAR
12'-6" BAY



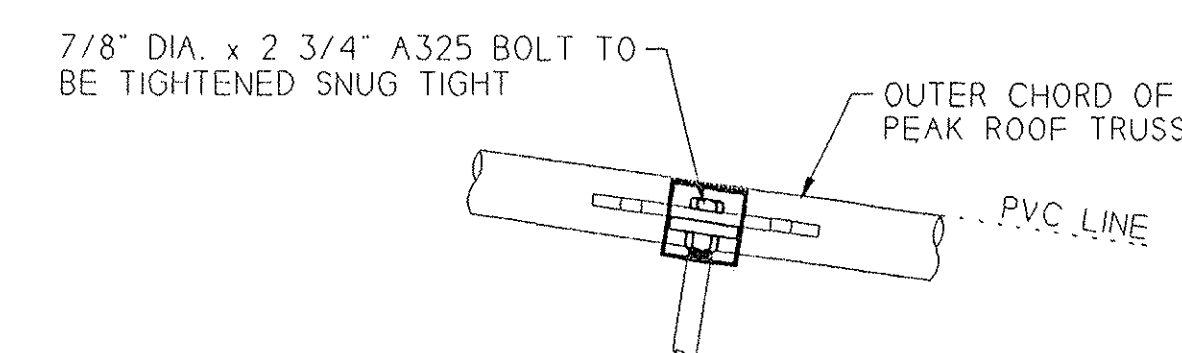
NON PEAK AXIAL TUBE - A5

LOWER ROOF / UPPER ROOF POSITION SHOWN
LEG BEND / LOWER ROOF POSITION SIMILAR
LOWER ROOF / YOKE POSITION SIMILAR
12'-6" BAY



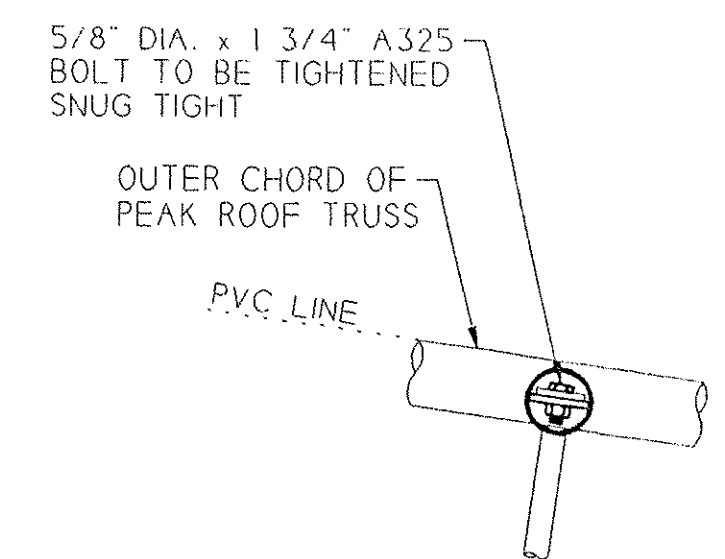
LEG BEND AXIAL D-FRAME - A6

12'-6" BAY TRUSS LEG SHOWN



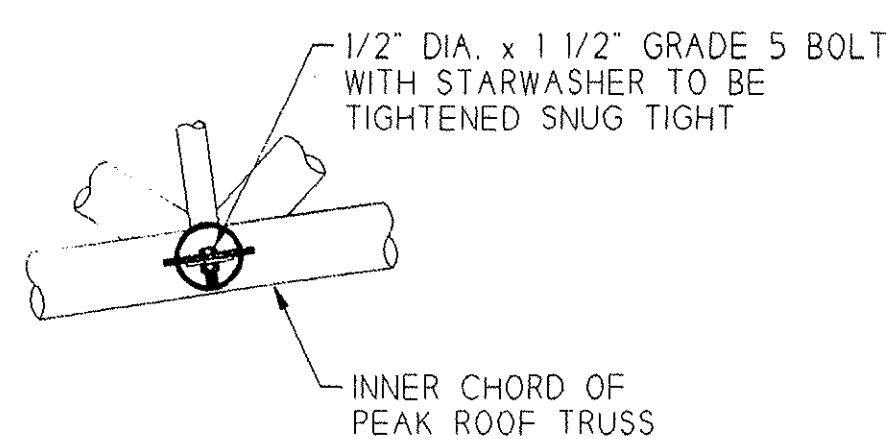
NON APEX COMPRESSION TUBE - A7

UPPER ROOF POSITION SHOWN
LOWER ROOF POSITION SIMILAR
12'-6" BAY



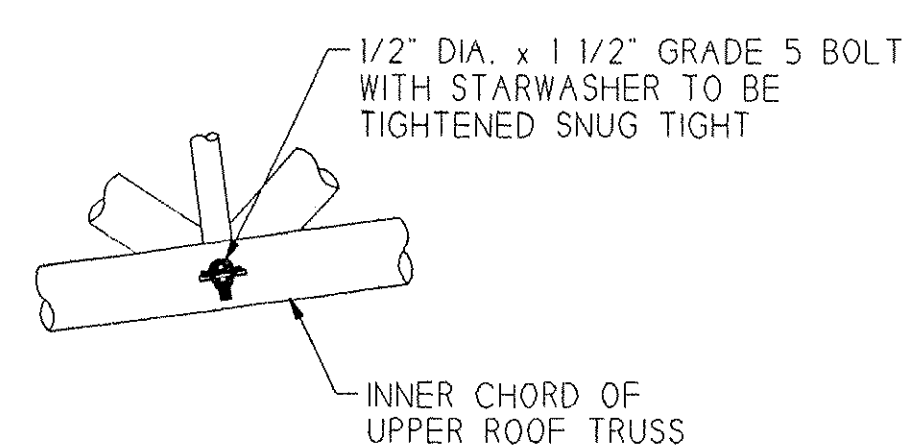
8" ROOF LONGITUDINAL - A8

UPPER ROOF POSITION SHOWN
LOWER ROOF POSITION SIMILAR
ALSO NON-VALLEY OUTER NODE RESTRAINT
& LEG LONGITUDINAL 12'-6" BAY



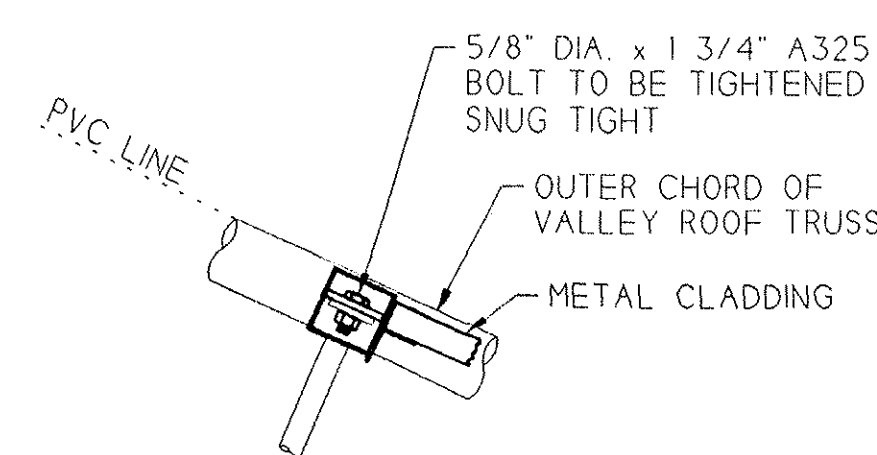
INNER NODE RESTRAINT TUBE - A9

UPPER ROOF POSITION SHOWN
LOWER ROOF AND LEG POSITIONS SIMILAR
12'-6" BAY



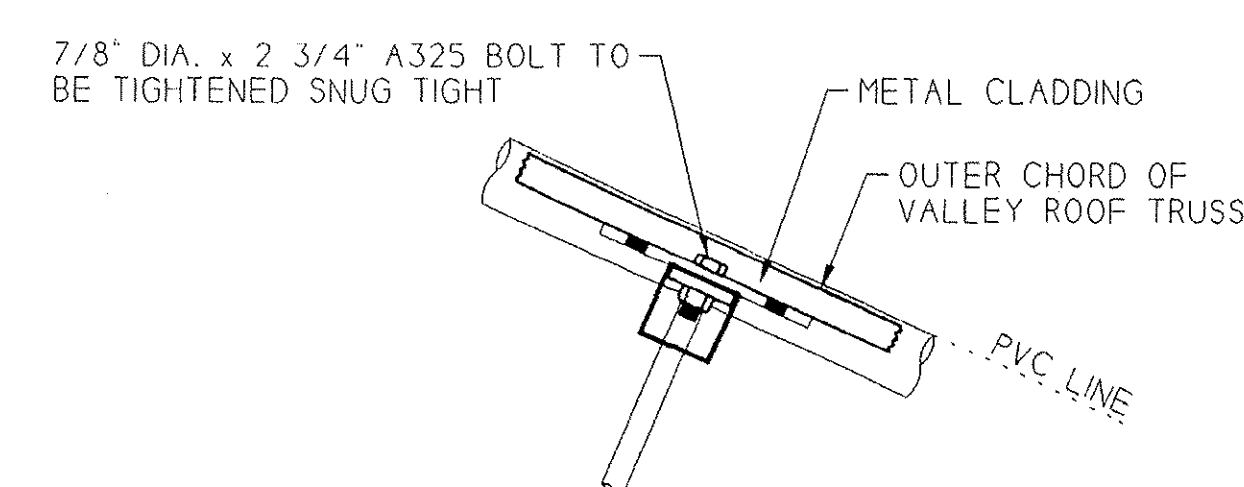
UNDERGIRT TUBE - A10

UPPER ROOF POSITION SHOWN
LOWER ROOF AND LEG POSITIONS SIMILAR
12'-6" BAY



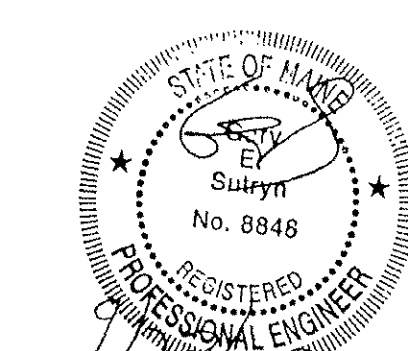
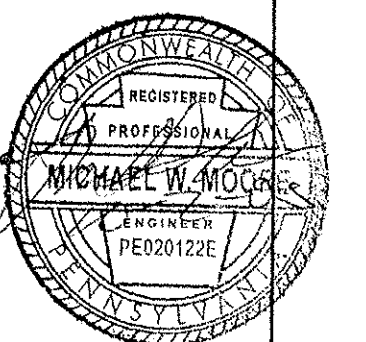
VALLEY ROOF LONGITUDINAL - A11

WITH CLADDING ANGLE
12'-6" BAY



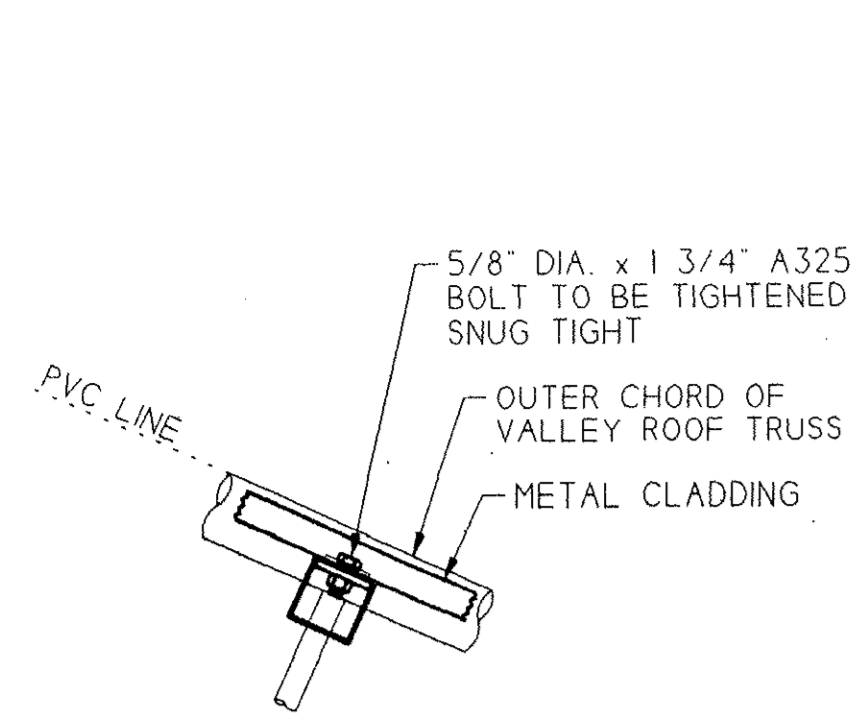
VALLEY NON APEX COMPRESSION TUBE - A12

12'-6" BAY

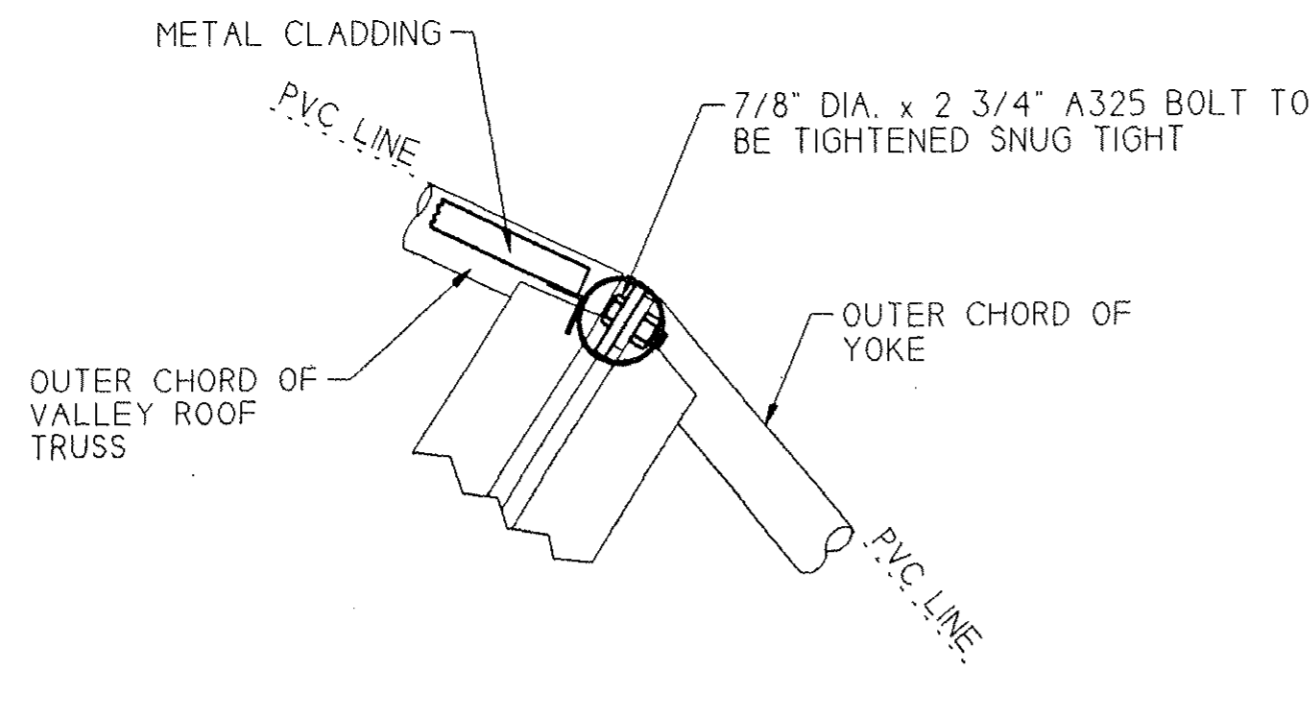


FIELD NOTE:
ALL METHODS FOR TIGHTENING NUTS ARE AS
DEFINED IN THE AISC STEEL MANUAL (9TH EDITION)

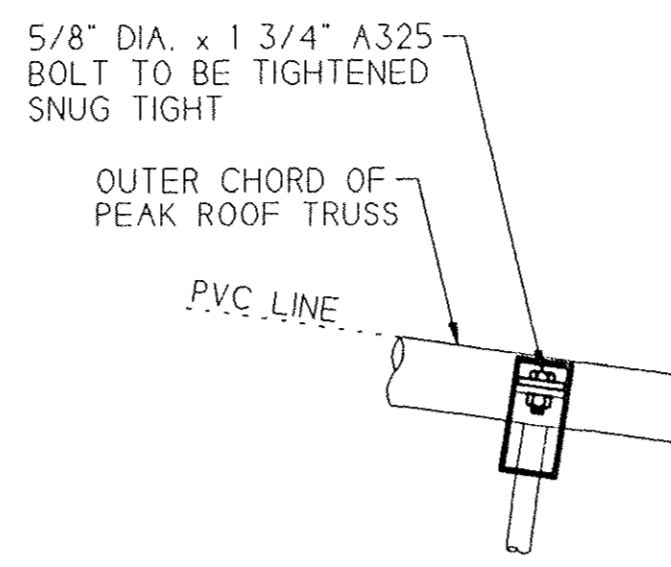
REV	DESCRIPTION	DRAWN	APP.	DATE
	We Cover The World RUBB BUILDING SYSTEMS			
	33.5m BVE BILINK / 7m LEG AXIAL STEEL FITUP AND BOLTING INSTRUCTIONS SHEET 1 OF 3			
DRAWN	KV 9-23-03	SCALE	1 : 10	This drawing is the property of Rubb, Inc. and may not be reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.
APP.		JOB #	03088	
DATE		JOB NAME	JMG	
RUBB, INC. SANFORD MAINE 04073 TEL: 207-324-2877 FAX 207-324-2347				DRAWING NO. 37916



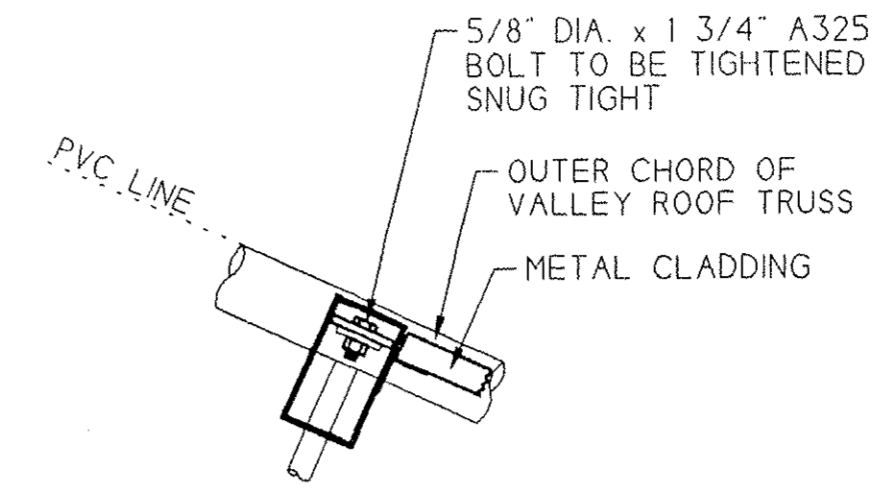
VALLEY ROOF LONGITUDINAL - A13
12'-6" BAY



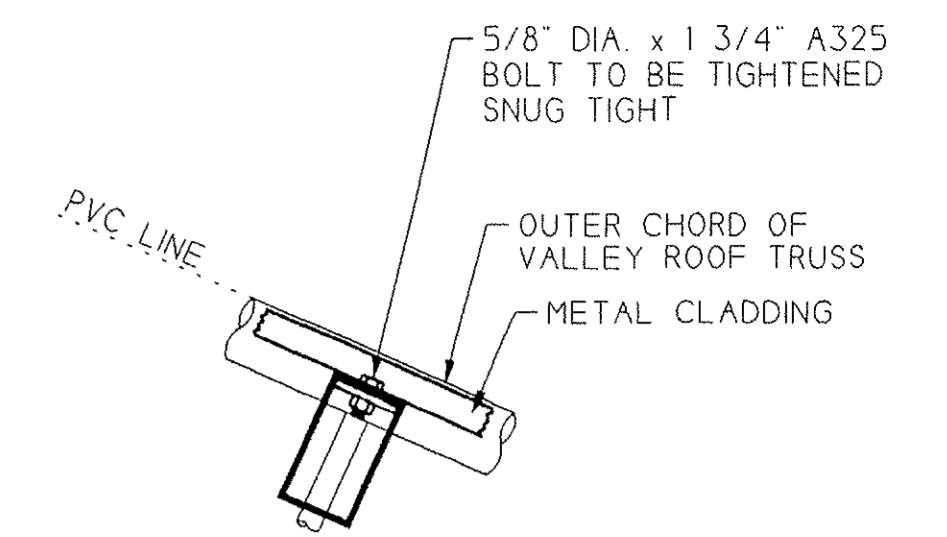
VALLEY NON PEAK AXIAL TUBE - A14
WITH CLADDING ANGLE
12'-6" BAY



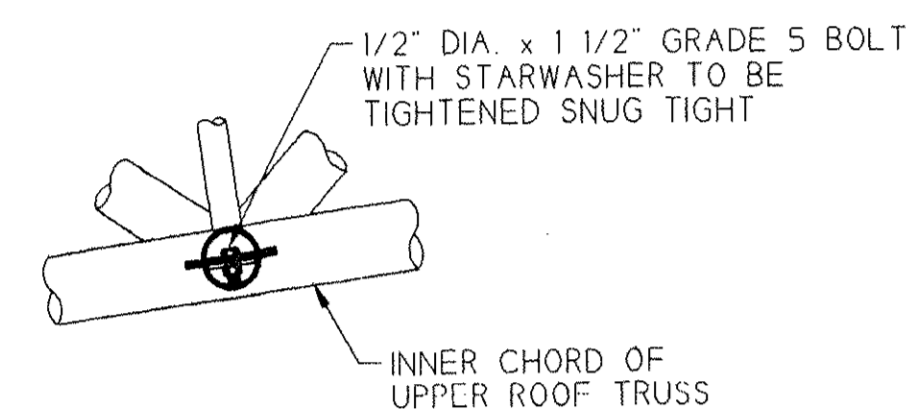
LEG & ROOF LONGITUDINAL - A15
UPPER ROOF POSITION SHOWN
LOWER ROOF POSITION SIMILAR
24'-0" BAYS



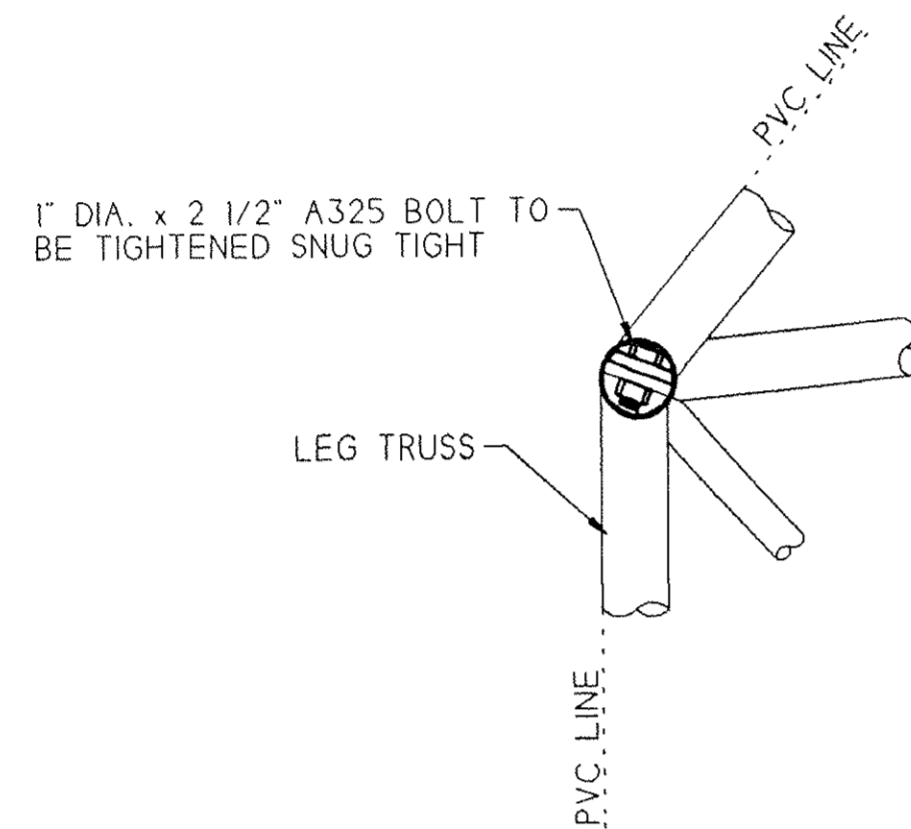
VALLEY ROOF LONGITUDINAL - A16
WITH CLADDING ANGLE
24'-0" BAY



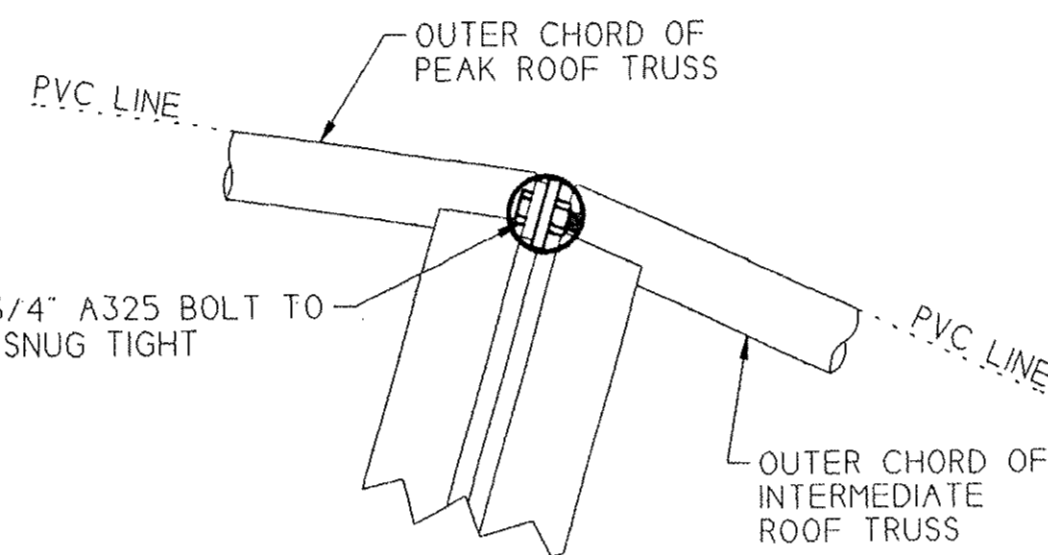
VALLEY ROOF LONGITUDINAL - A17
24'-0" BAY



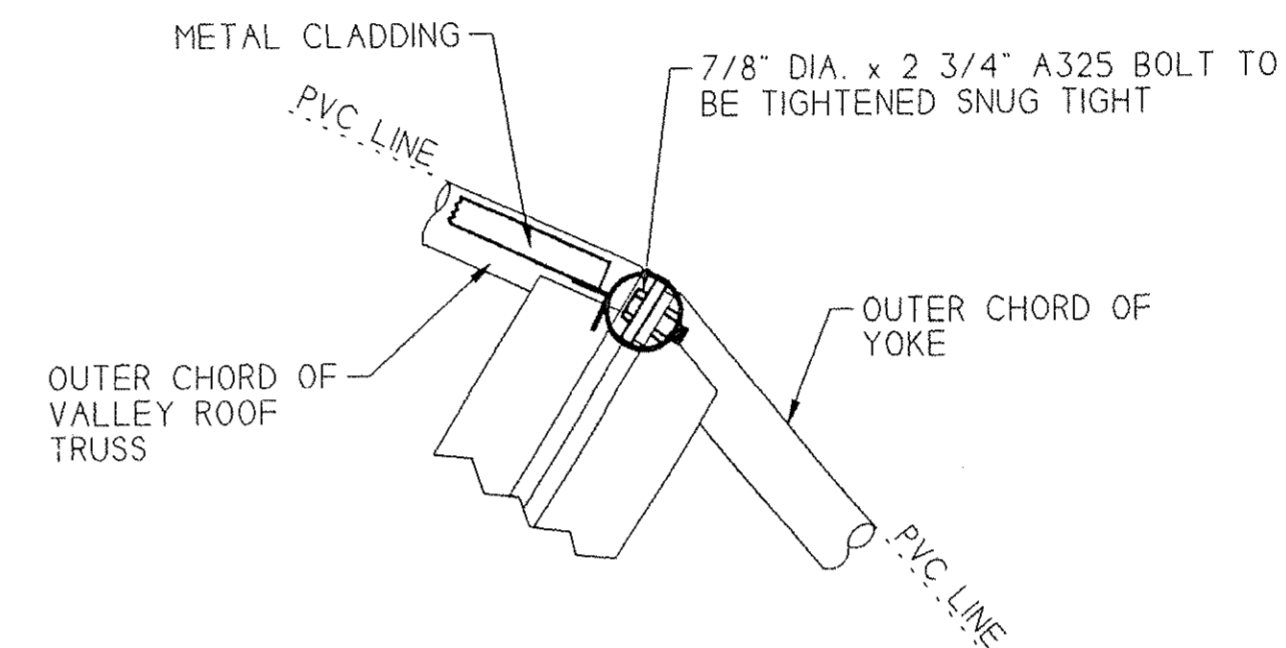
UNDERGIRT TUBE - A18
UPPER ROOF POSITION SHOWN
LOWER ROOF AND LEG POSITIONS SIMILAR
24'-0" BAY



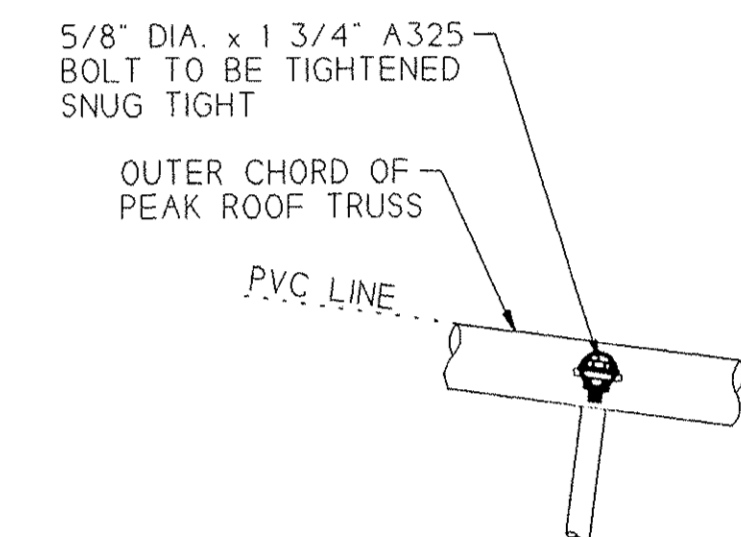
LEG BEND AXIAL TUBE - A19
6'-9" BAY TRUSS LEG SHOWN



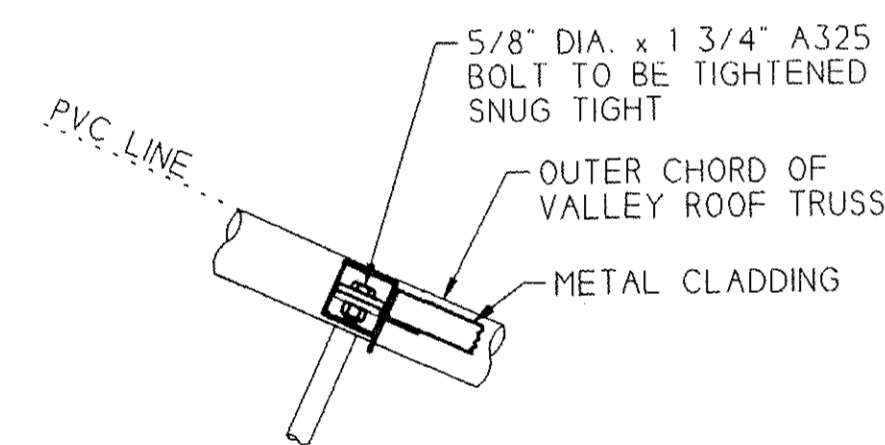
NON PEAK AXIAL TUBE - A20
LOWER ROOF / UPPER ROOF POSITION SHOWN
LEG BEND / LOWER ROOF POSITION SIMILAR
6'-9" BAY



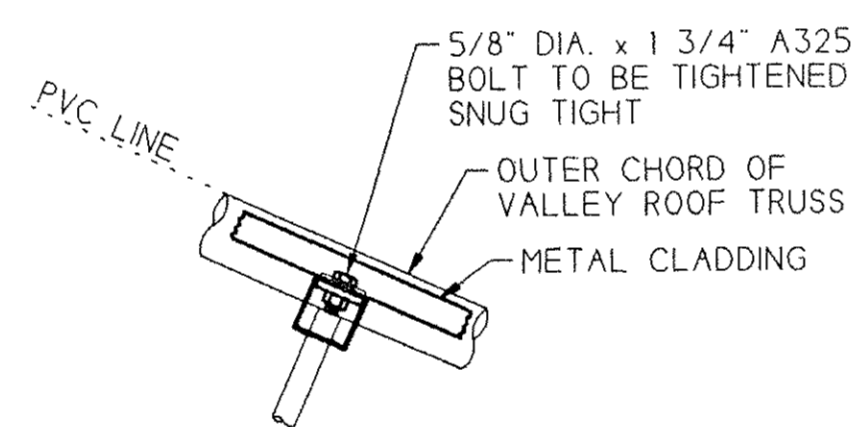
VALLEY NON PEAK AXIAL TUBE - A21
WITH CLADDING ANGLE
6'-9" BAY



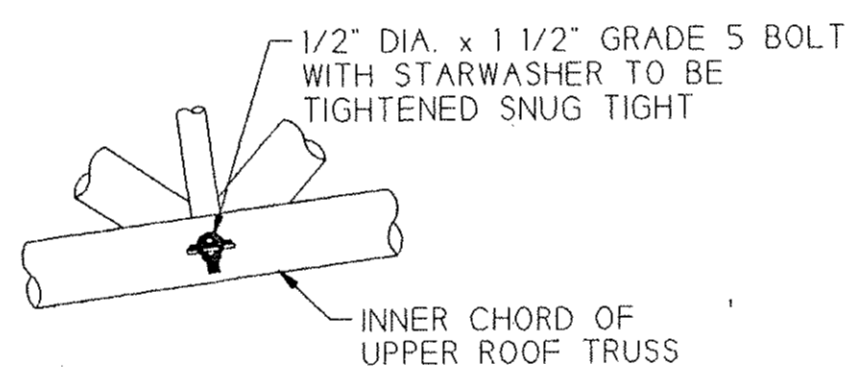
8° ROOF LONGITUDINAL - A22
ALSO PVC UNROLLING TUBE - 6'-9" BAY



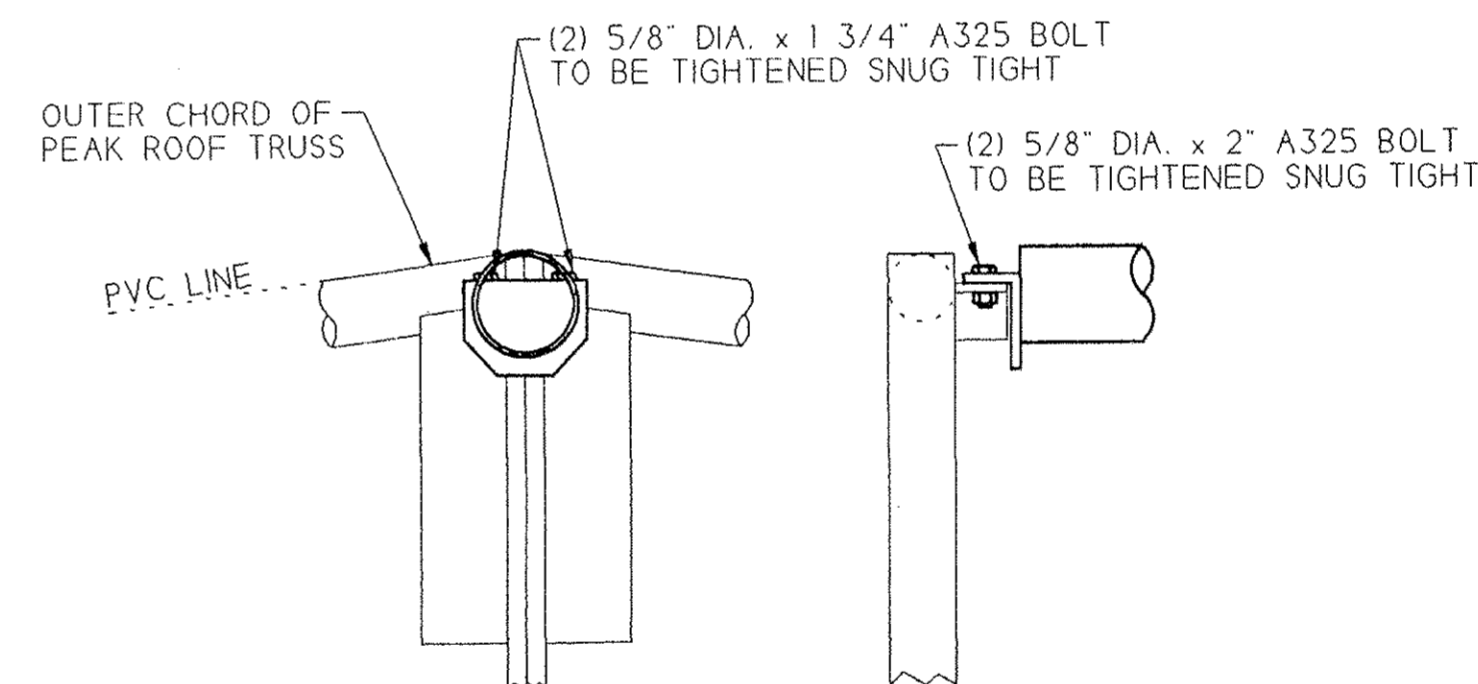
VALLEY ROOF LONGITUDINAL - A23
WITH CLADDING ANGLE
6'-9" BAY



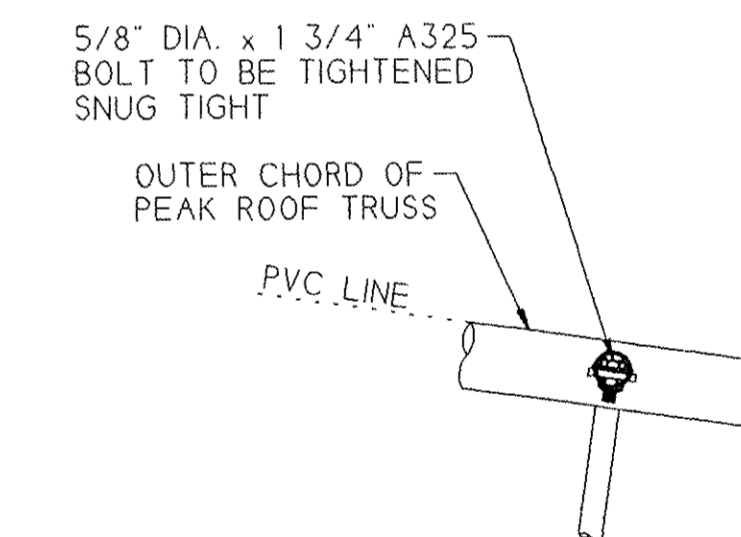
VALLEY ROOF LONGITUDINAL - A24
6'-9" BAY



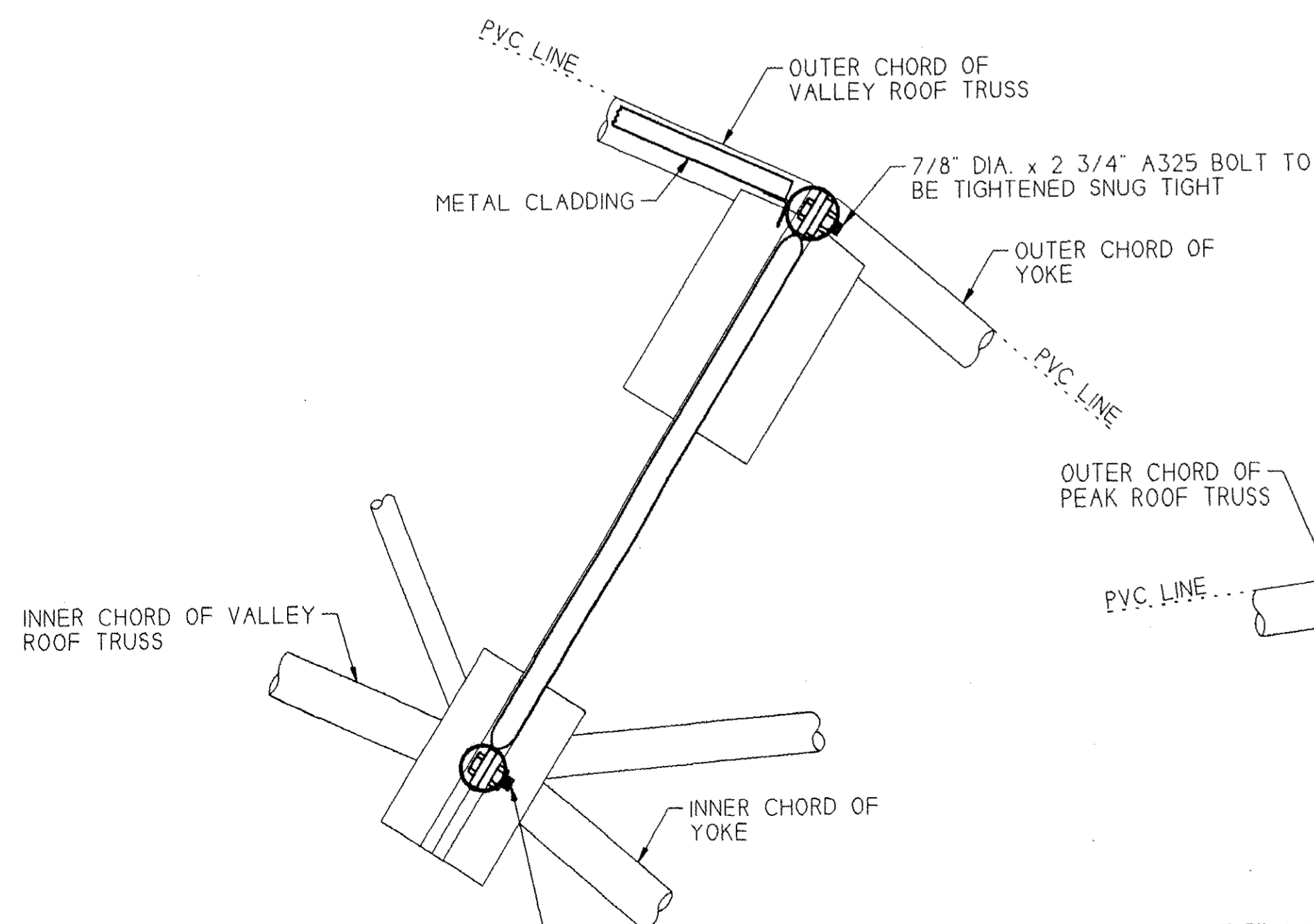
UNDERGIRT TUBE - A25
UPPER ROOF POSITION SHOWN
LOWER ROOF AND LEG POSITIONS SIMILAR
6'-9" BAY



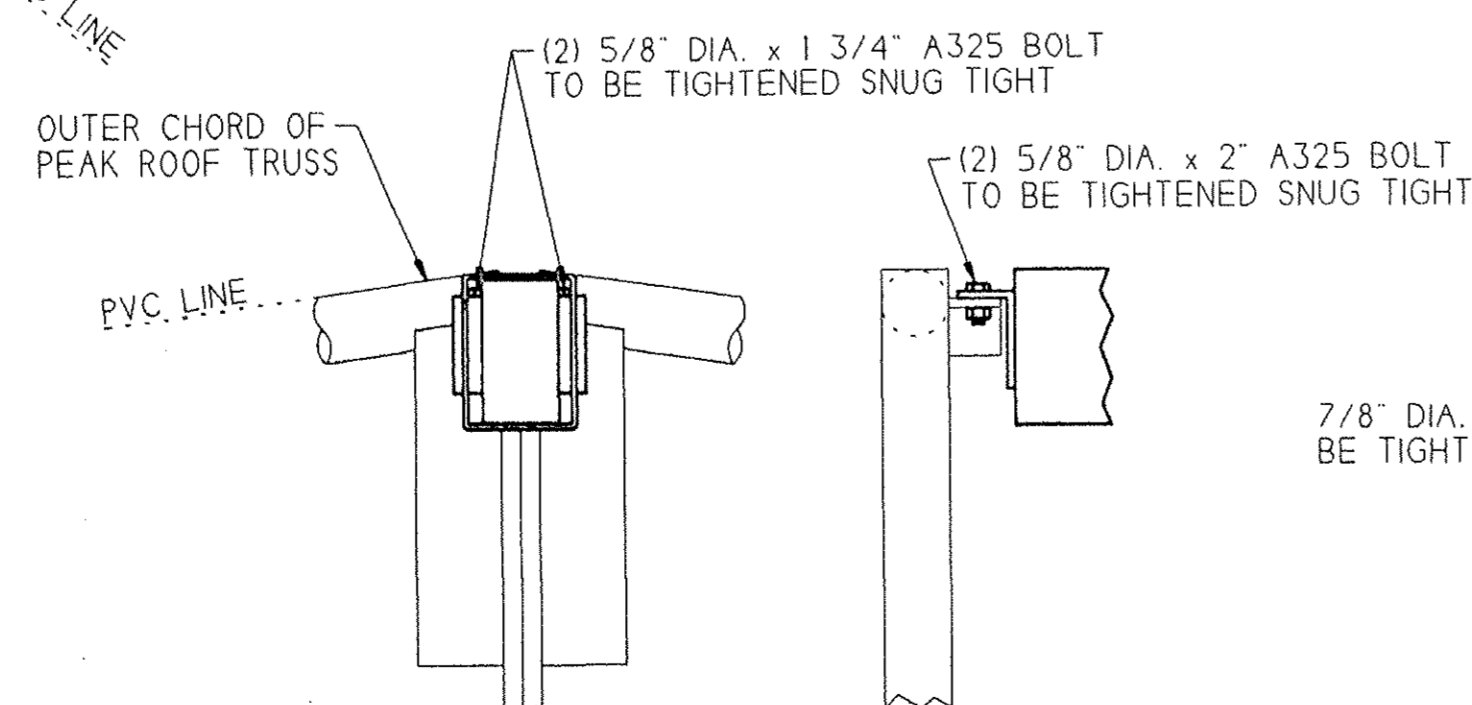
PEAK AXIAL TUBE - A26
6'-9" BAY



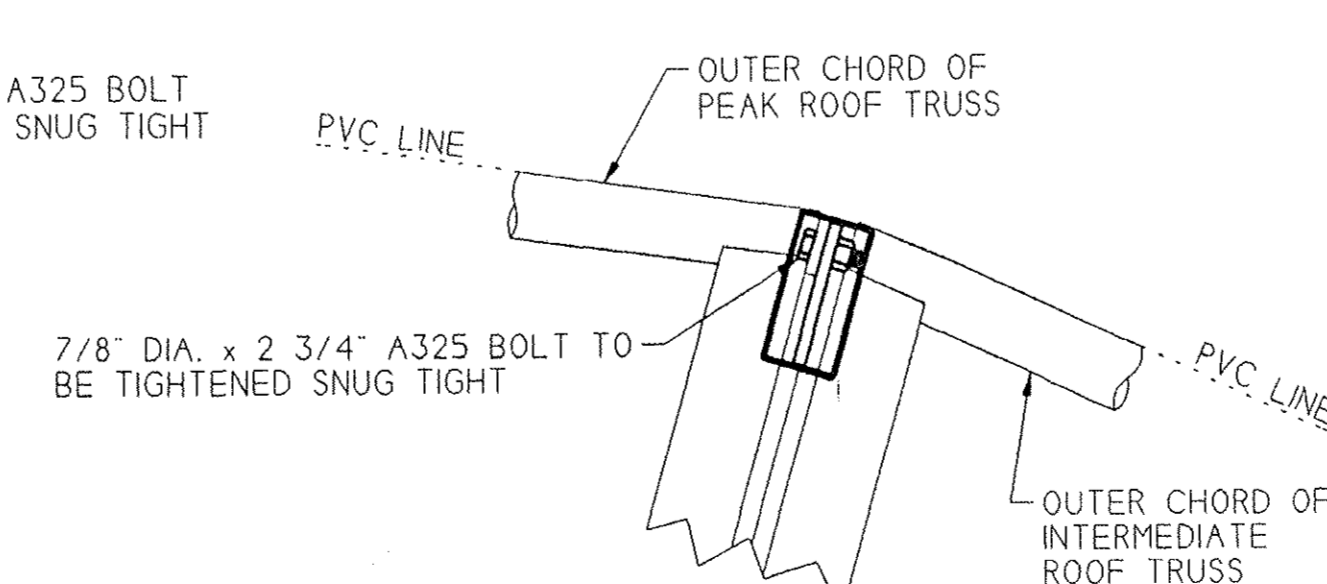
PVC UNROLLING TUBE - A28
12'-6" BAYS



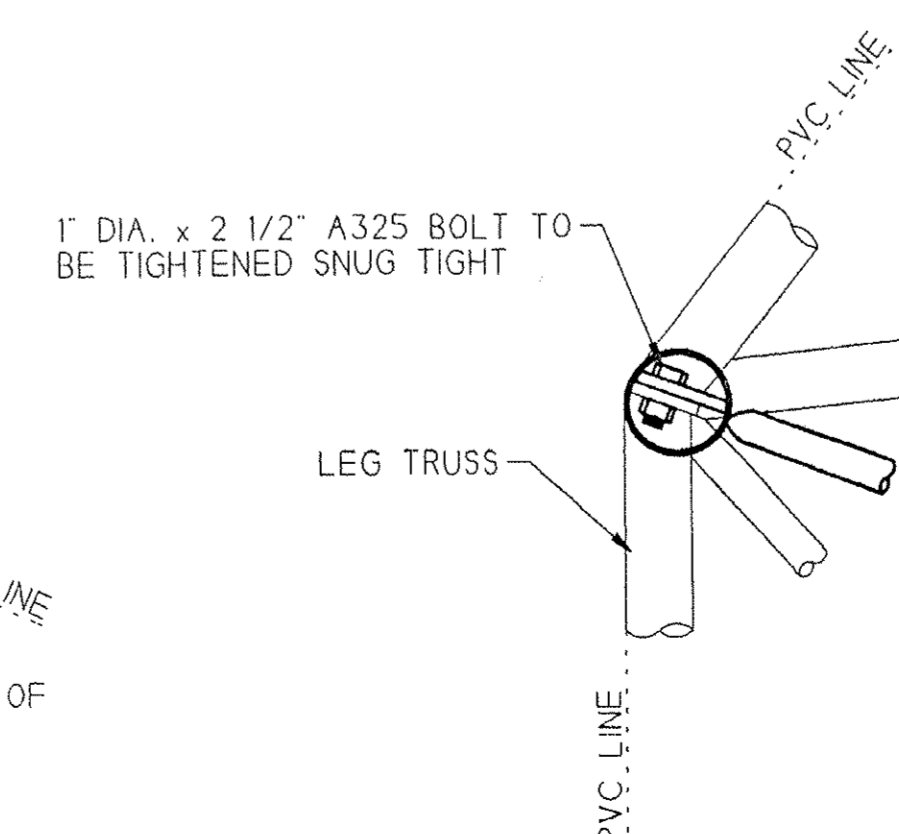
VALLEY NON PEAK AXIAL FRAME - A27
WITH CLADDING ANGLE
12'-6" BAY



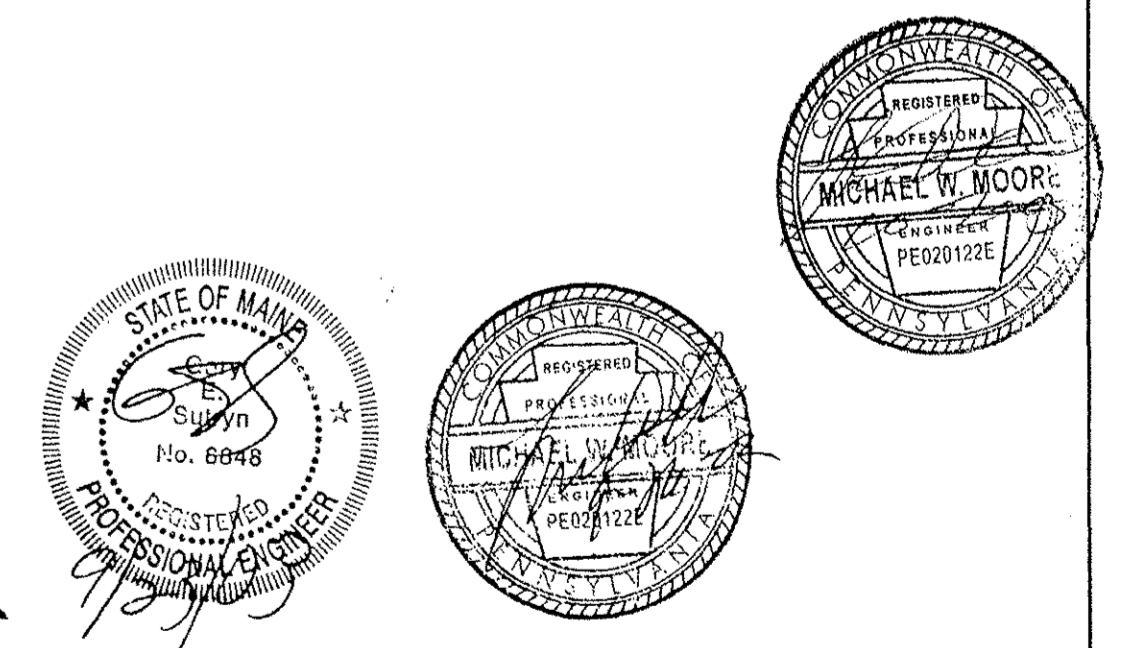
PEAK AXIAL TUBE - A29
24'-0" BAY



NON PEAK AXIAL TUBE - A30
LOWER ROOF / UPPER ROOF POSITION SHOWN
LEG BEND / LOWER ROOF POSITION SIMILAR
LOWER ROOF / YOKE POSITION SIMILAR
24'-0" BAY

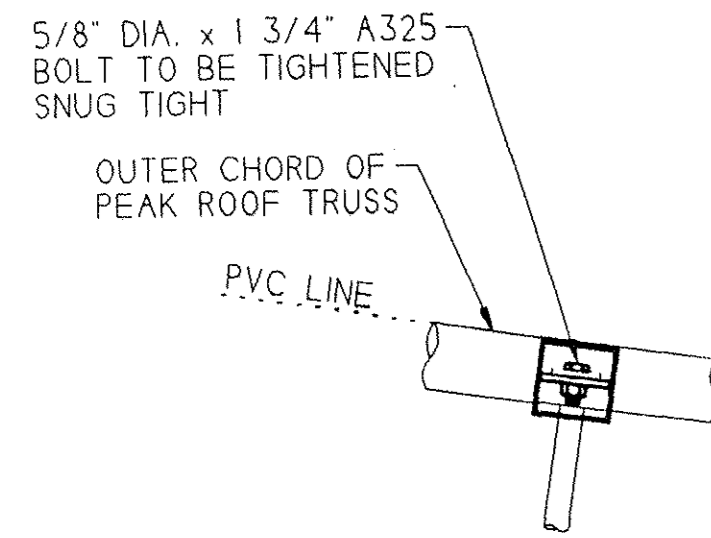


LEG BEND AXIAL D-FRAME - A31
24'-0" BAY TRUSS LEG SHOWN

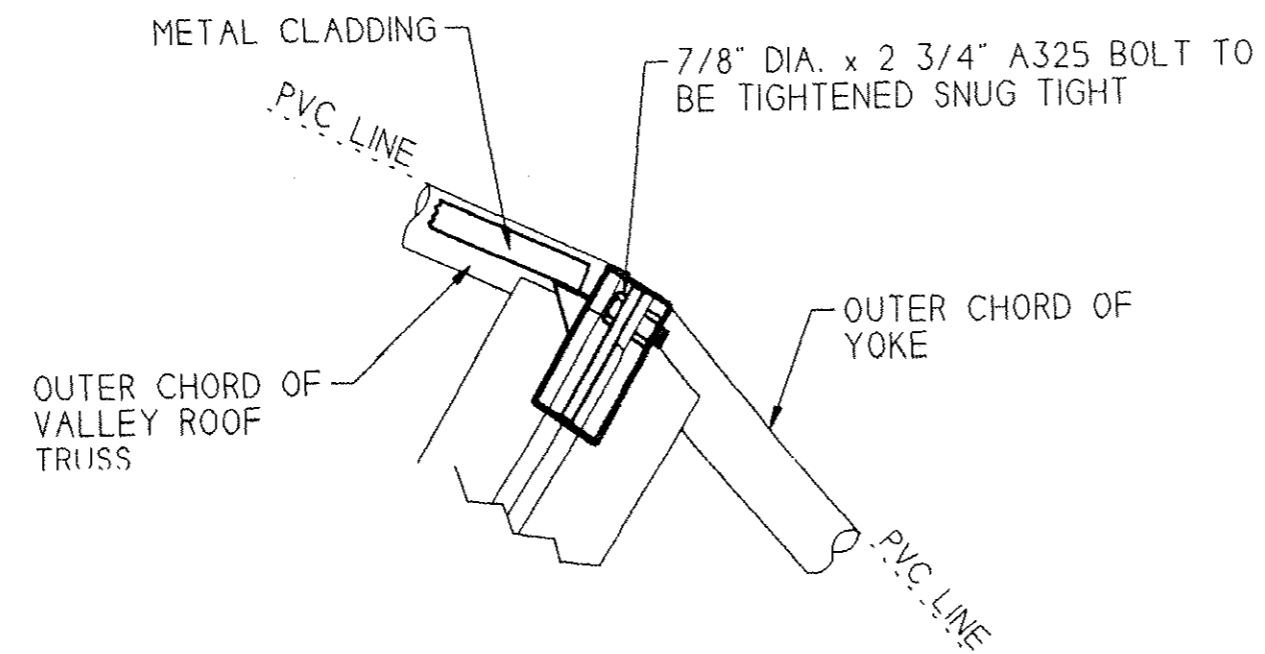


FIELD NOTE:
ALL METHODS FOR TIGHTENING NUTS ARE AS
DEFINED IN THE AISC STEEL MANUAL (9TH EDITION)

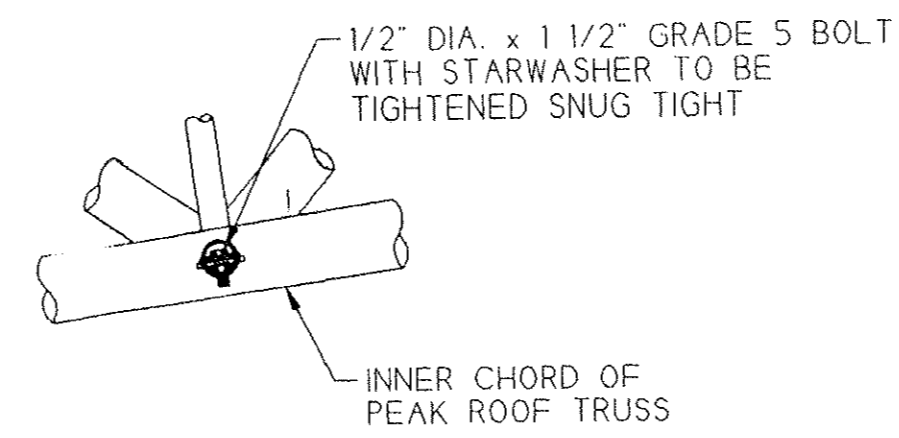
REV.	DESCRIPTION	DRAWN	APP.	DATE
	33.5m BVE BILINK / 7m LEG AXIAL STEEL FITUP AND BOLTING INSTRUCTIONS SHEET 2 OF 3			
	DRWN: KV 9-23-03			
	SCALE: 1 : 10			
	APP: 6/29/07			
	DATE: 6/29/07			
	JOB #: 03088			
	JOB NAME: JMG			
	RUBB, INC. SANFORD MAINE 04073			
	TEL: 207-324-2877 FAX 207-324-2347			
				37917



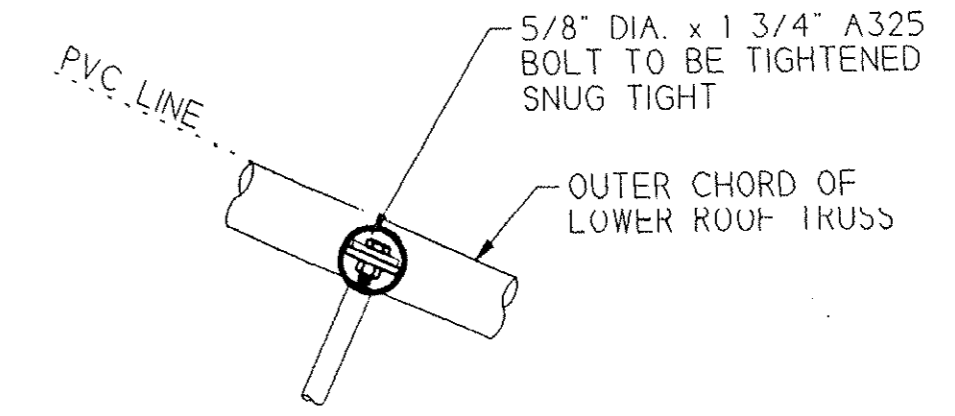
PVC UNROLLING TUBE - A32
24'-0" BAYS



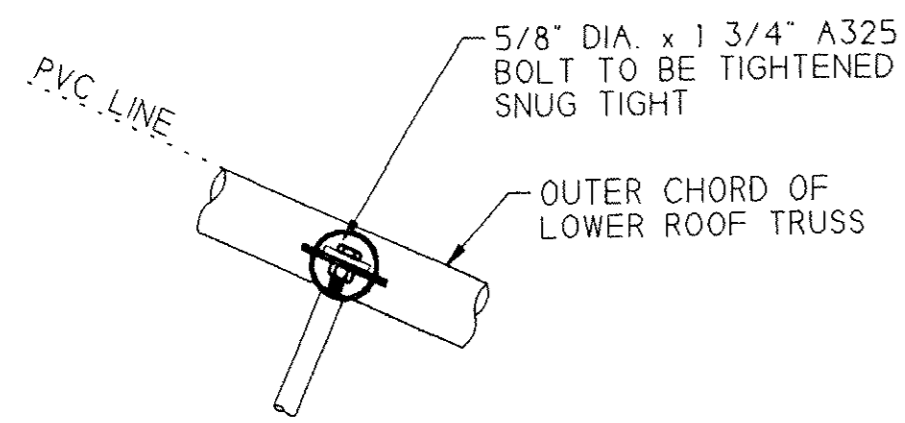
VALLEY NON PEAK AXIAL TUBE - A33
WITH CLADDING ANGLE
24'-0" BAY



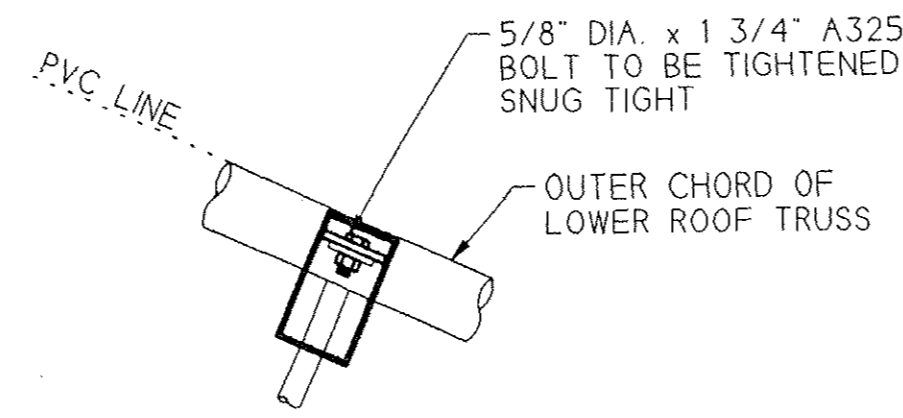
INNER NODE RESTRAINT TUBE - A34
UPPER ROOF POSITION SHOWN
LOWER ROOF AND LEG POSITIONS SIMILAR
6'-9" BAY



NON-VALLEY 24° ROOF LONGITUDINAL - A36
ALSO ROOF OUTER NODE RESTRAINT
12'-6" BAYS



NON-VALLEY 24° ROOF LONGITUDINAL - A37
ALSO ROOF OUTER NODE RESTRAINT
6'-9" BAYS

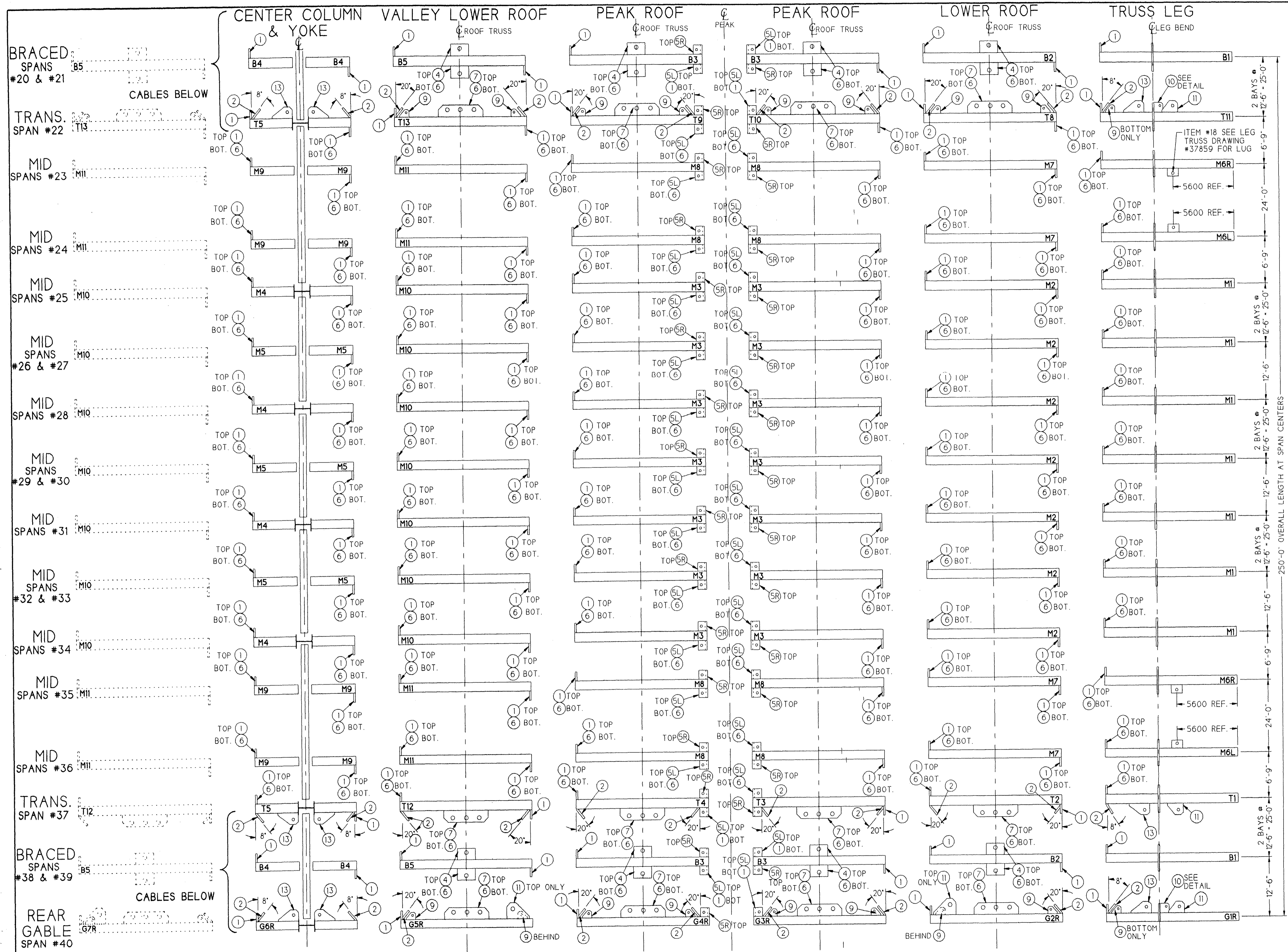


NON-VALLEY 24° ROOF LONGITUDINAL - A38
24'-0" BAYS



FIELD NOTE:
ALL METHODS FOR TIGHTENING NUTS ARE AS
DEFINED IN THE AISC STEEL MANUAL (9TH EDITION)

REV.	DESCRIPTION	DRAWN	APP.	DATE
	RUBB BUILDING SYSTEMS We Cover The World TITLE: 33.5m BVE BILINK / 7m LEG AXIAL STEEL FITUP AND BOLTING INSTRUCTIONS SHEET 3 OF 3			
	SCALE: 1 : 10 JOB #: 03088 DATE: 9/23/05 JOB NAME: JMG			This drawing is the property of Rubb, Inc. and may not be reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.
RUBB, INC. SANFORD MAINE 04073 TEL: 207-324-2877 FAX 207-324-2347				DRAWING NO. 37918



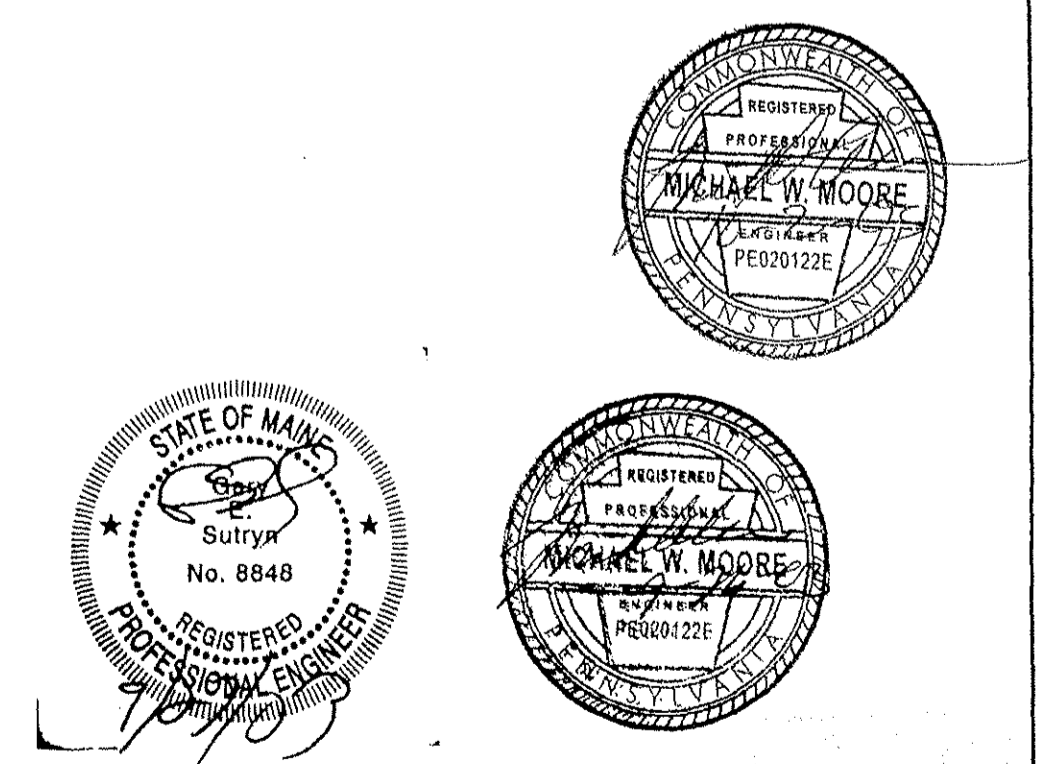
BRACED SPANS #20 & #21
 TRANS. SPAN #22
 MID SPANS #23
 MID SPANS #24
 MID SPANS #25
 MID SPANS #26 & #27
 MID SPANS #28
 MID SPANS #29 & #30
 MID SPANS #31
 MID SPANS #32 & #33
 MID SPANS #34
 MID SPANS #35
 MID SPANS #36
 TRANS. SPAN #37
 BRACED SPANS #38 & #39
 REAR GABLE SPAN #40

250'-0" OVERALL LENGTH AT SPAN CENTERS

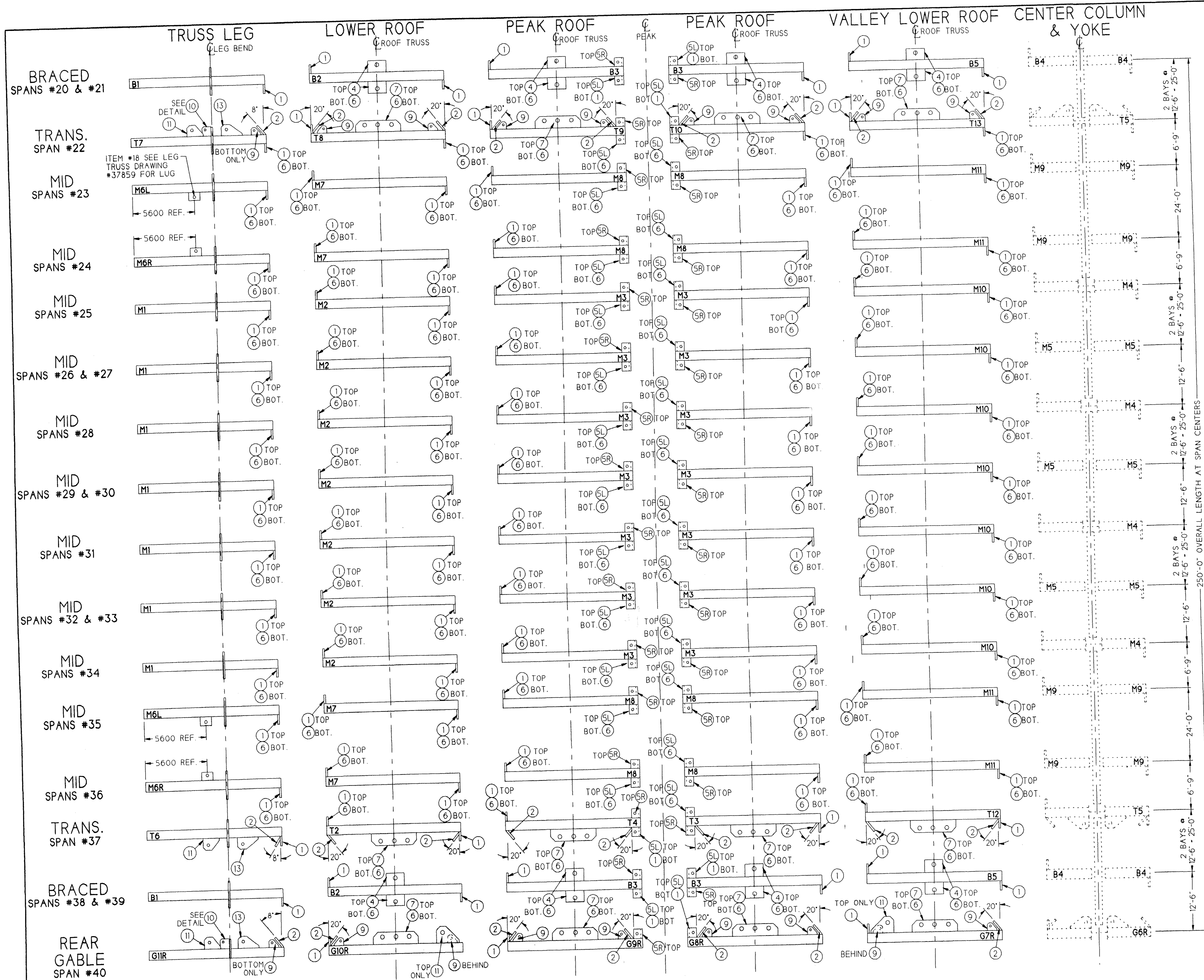
SCHEMATIC PLAN VIEW
 LAND SIDE NORTHWEST QUADRANT NOT TO SCALE
 PROJECT NORTH

SHOP NOTES:
 1.) ITEM #1 & ITEM #9 TOP & BOTTOM UNLESS NOTED OTHERWISE.
 2.) CENTER GIRDERS SHOWN REPRESENTATIVELY, FOR REFERENCE ONLY.

NOTES:
 1.) SEE DRAWINGS 37857, 37858, 37860 & 37861 FOR ROOF TRUSS DETAILS.
 2.) SEE DRAWING 37856 & 37859 FOR LEG TRUSS DETAILS.
 3.) SEE DRAWING 11006 FOR GENERAL WELDING NOTES.
 4.) SEE DRAWING 37885 FOR LUG AND WELDING DETAILS.
 5.) BREAK SHARP CORNERS FOR PVC.
 6.) SEE DRAWING 37879 FOR LOCATION DETAILS FOR ITEM 13 ON DOUBLE YOKE ASSEMBLIES G6F, T5 & G6R. COPE LUG AROUND STIFFENER AS REQUIRED.



A	RELOCATED DOOR BAYS.	KV	JMG	09/16/17
REV.	DESCRIPTION	DATE	APP.	DATE
1	We Cover The World			
RUBB BUILDING SYSTEMS		33.5m BVE BILINK / 7m LEG LUG SCHEMATIC - 3 BAY X-BRACED SHEET 2 OF 4		
DRAWN	KV 08-19-03	SCALE	1 : 2	This drawing is the property of Rubb, Inc. and may not be reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.
APP.	GES 8-25-03	JOB NO.	03088	
DATE		JOB NAME	JMG	
RUBB, INC. SANFORD MAINE 04073 TEL: 207-324-2877 FAX 207-324-2347			DRAWING NO.	37929



BRACED SPANS #20 & #21

TRANS. SPAN #22

MID SPANS #23

MID SPANS #24

MID SPANS #25

MID SPANS #26 & #27

MID SPANS #28

MID SPANS #29 & #30

MID SPANS #31

MID SPANS #32 & #33

MID SPANS #34

MID SPANS #35

MID SPANS #36

TRANS. SPAN #37

BRACED SPANS #38 & #39

REAR GABLE SPAN #40

250'-0" OVERALL LENGTH AT SPAN CENTERS

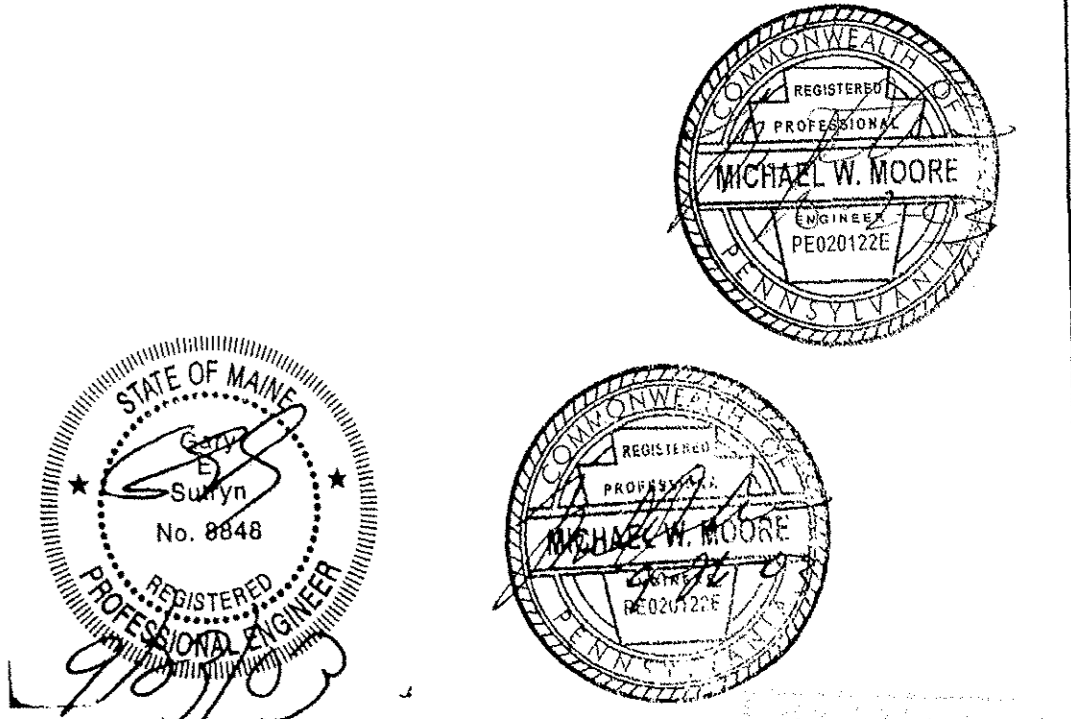
SCHEMATIC PLAN VIEW

RIVER SIDE
NORTHEAST QUADRANT
NOT TO SCALE

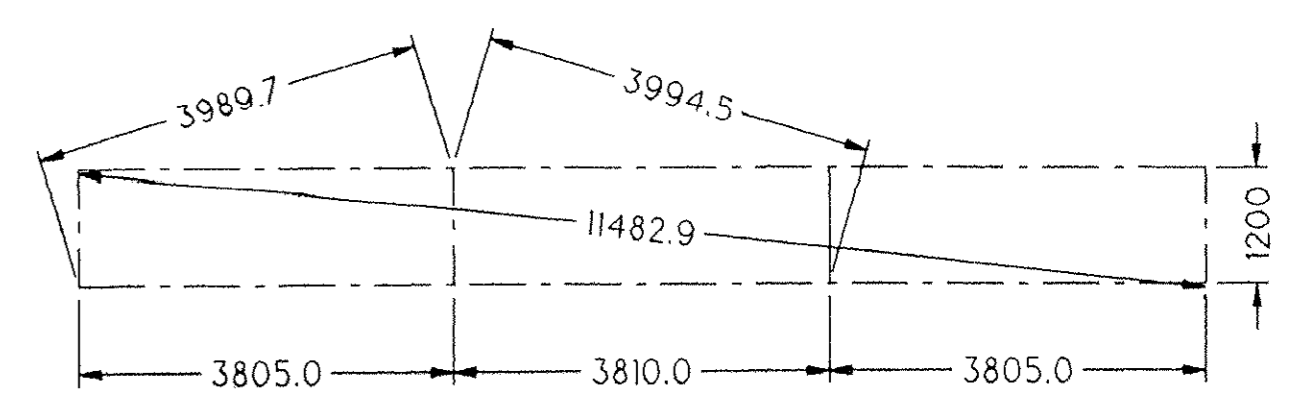
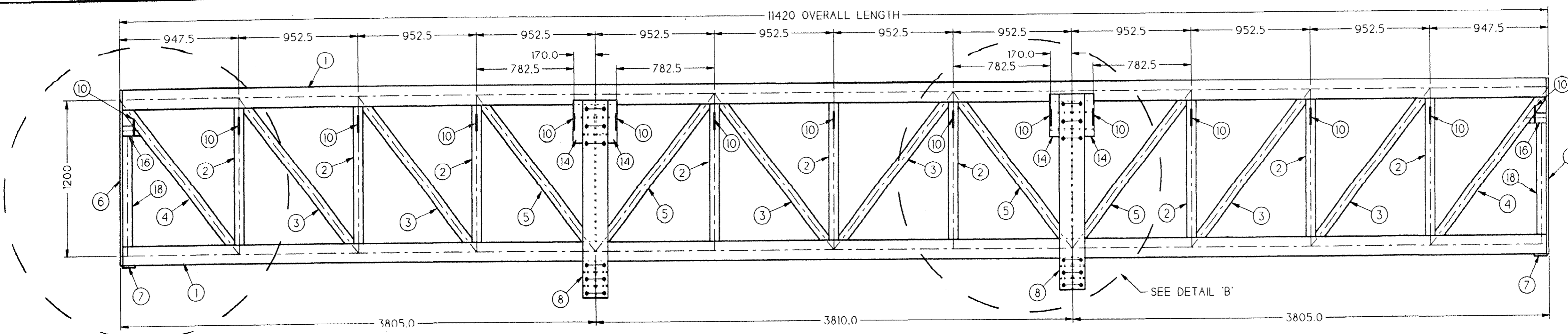


SHOP NOTES:
1.) ITEM #1 & ITEM #9 TOP & BOTTOM UNLESS NOTED OTHERWISE.
2.) CENTER GIRDERS SHOWN REPRESENTATIVELY, FOR REFERENCE ONLY.

- NOTES:
1.) SEE DRAWINGS 37857, 37858, 37860 & 37861 FOR ROOF TRUSS DETAILS.
2.) SEE DRAWING 37856 & 37859 FOR LEG TRUSS DETAILS.
3.) SEE DRAWING 11006 FOR GENERAL WELDING NOTES.
4.) SEE DRAWING 37885 FOR LUG AND WELDING DETAILS.
5.) BREAK SHARP CORNERS FOR PVC.

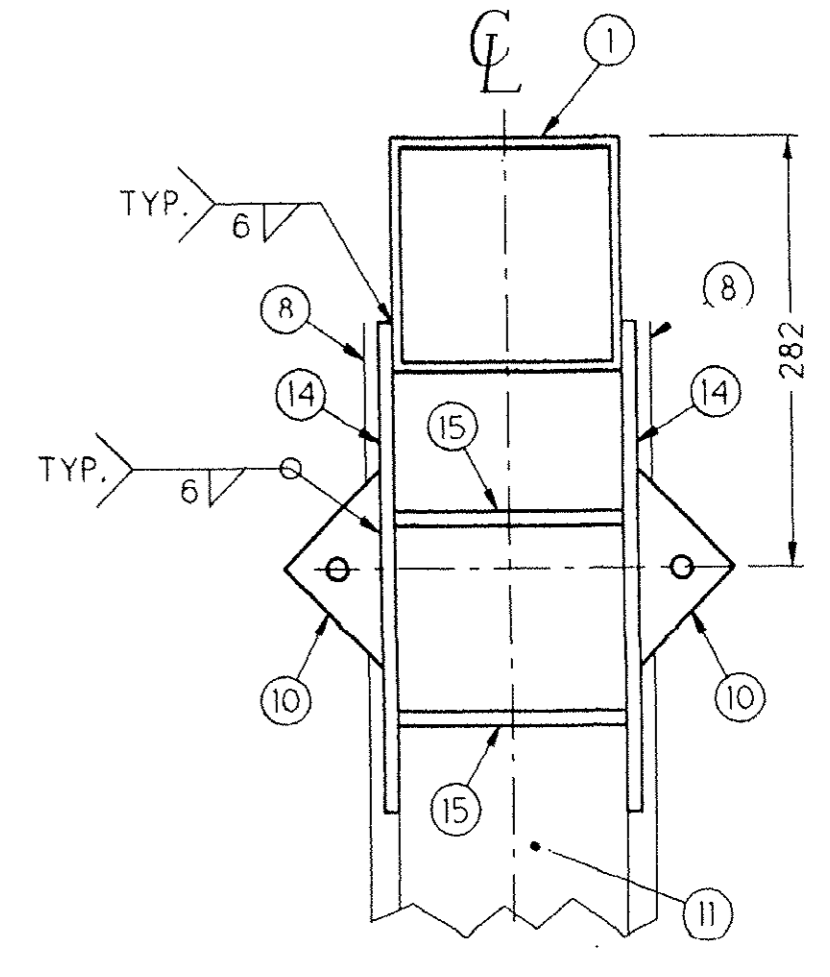


REV.	DESCRIPTION	KV	JMG	02/26/2
A	RELOCATED DOOR BAYS.			
We Cover The World		TITLE		
RUBB		33.5m BVE BILINK / 7m LEG LUG SCHEMATIC - 3 BAY X-BRACED SHEET 4 OF 4		
BUILDING SYSTEMS				
DATE	JOB NAME	SCALE	This drawing is the property of Rubb, Inc. and may not be reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.	
08-25-03	JMG	1:2		
RUBB, INC. SANFORD MAINE 04073		DRIVING NO.	37931	
TEL: 207-324-2877 FAX 207-324-2347				

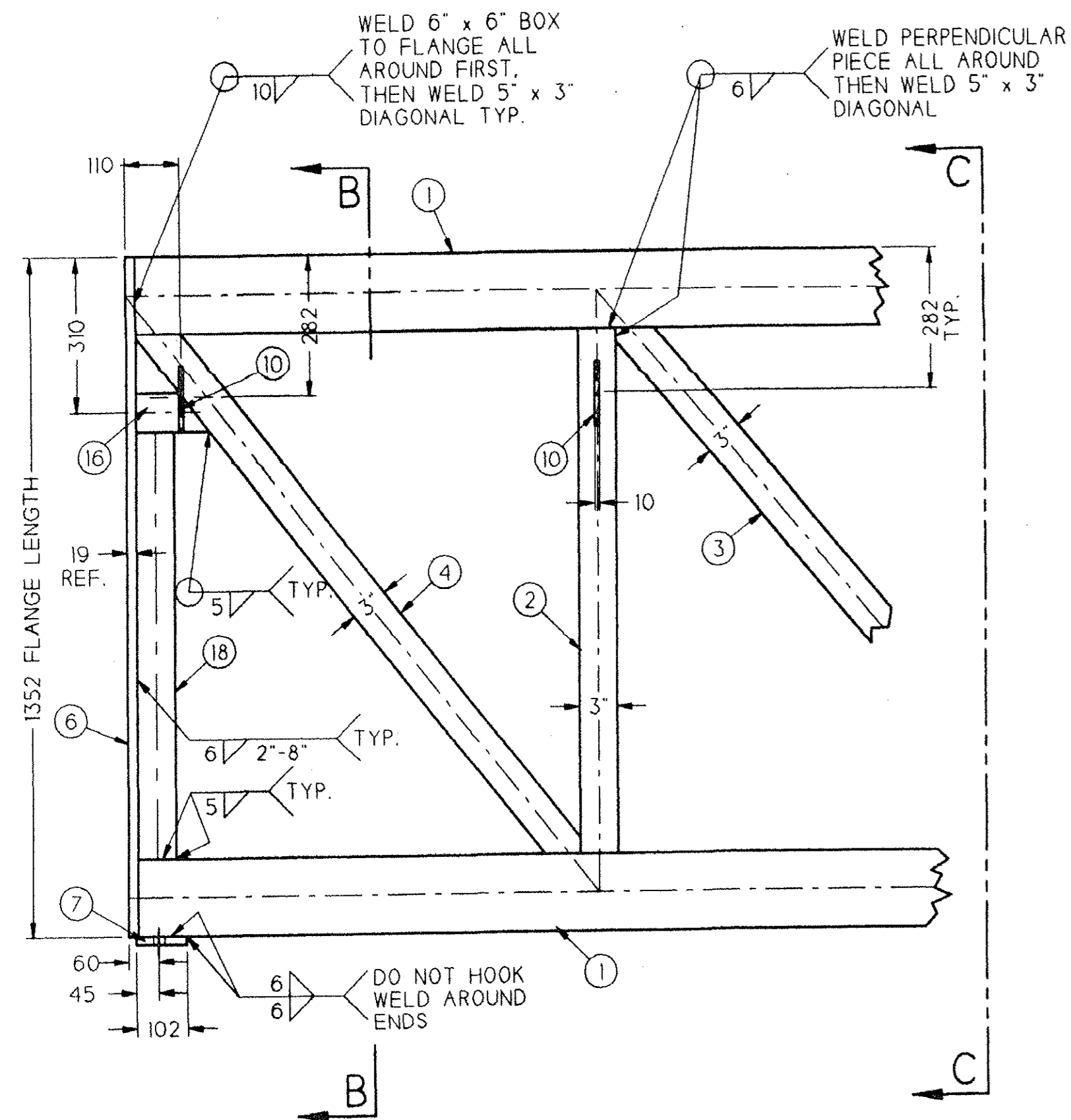


ASSEMBLY CG-3

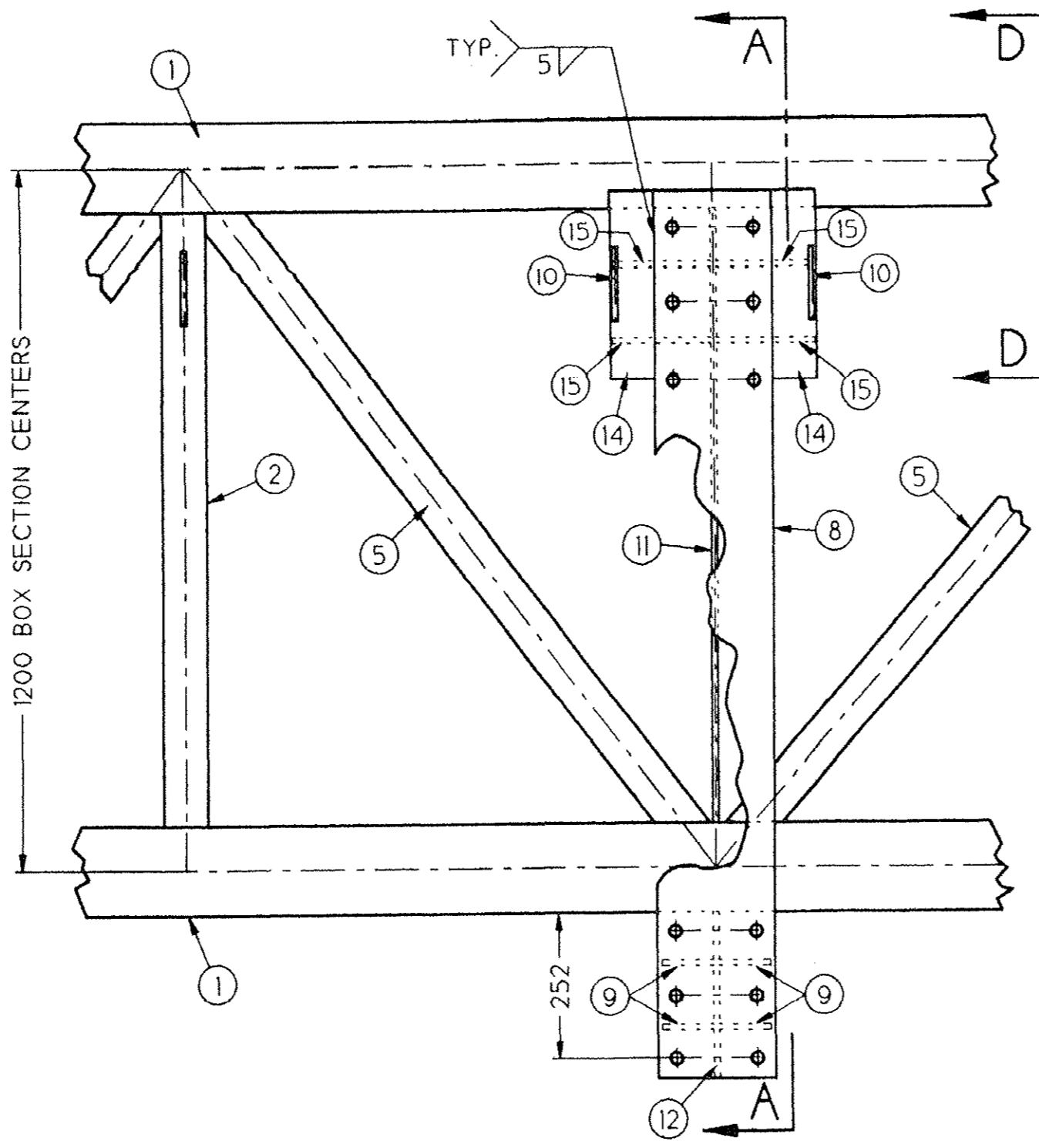
CENTRAL GIRDER CENTERLINES
1/4x SCALE



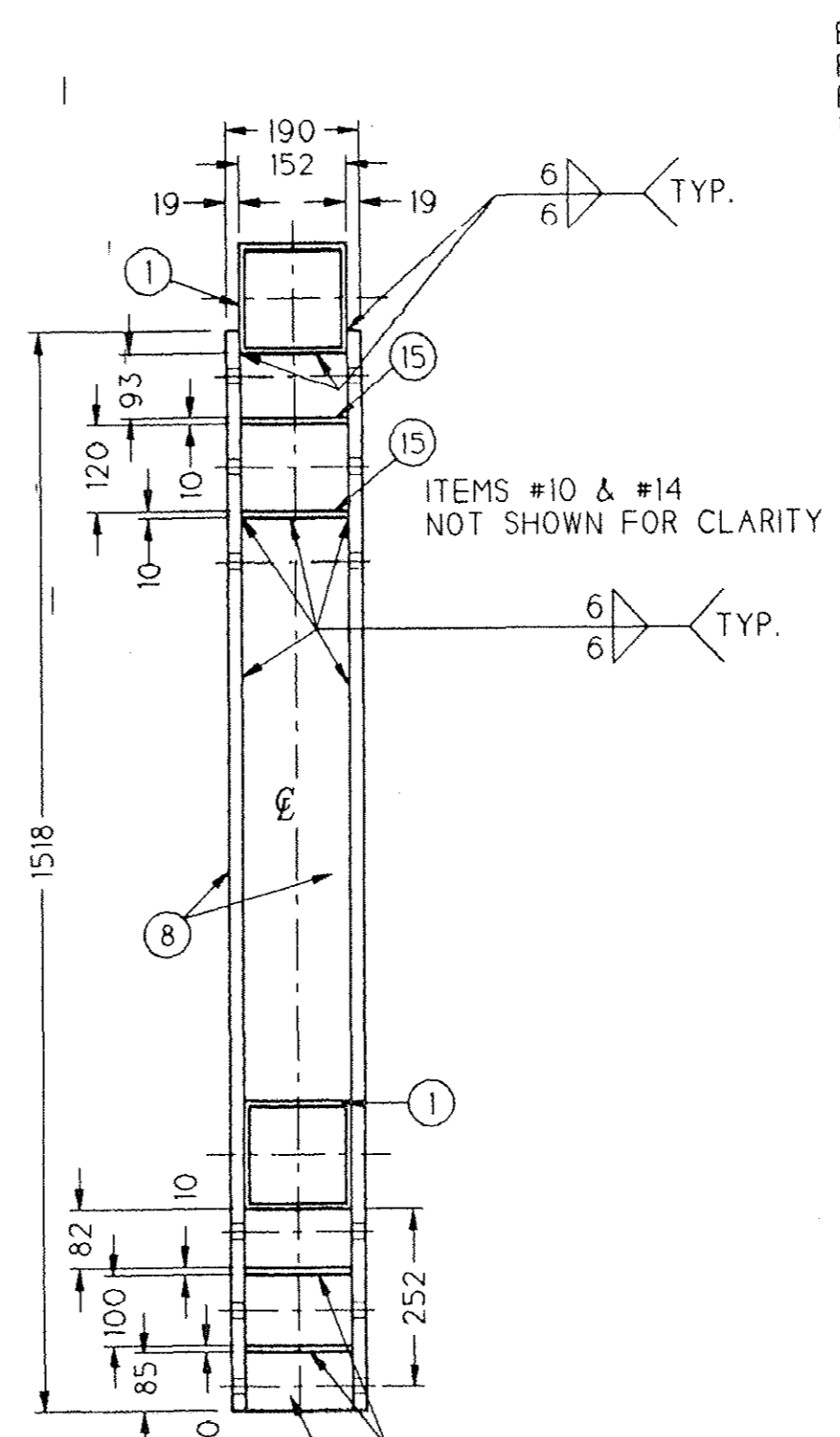
SECTION "D-D"
4x SCALE



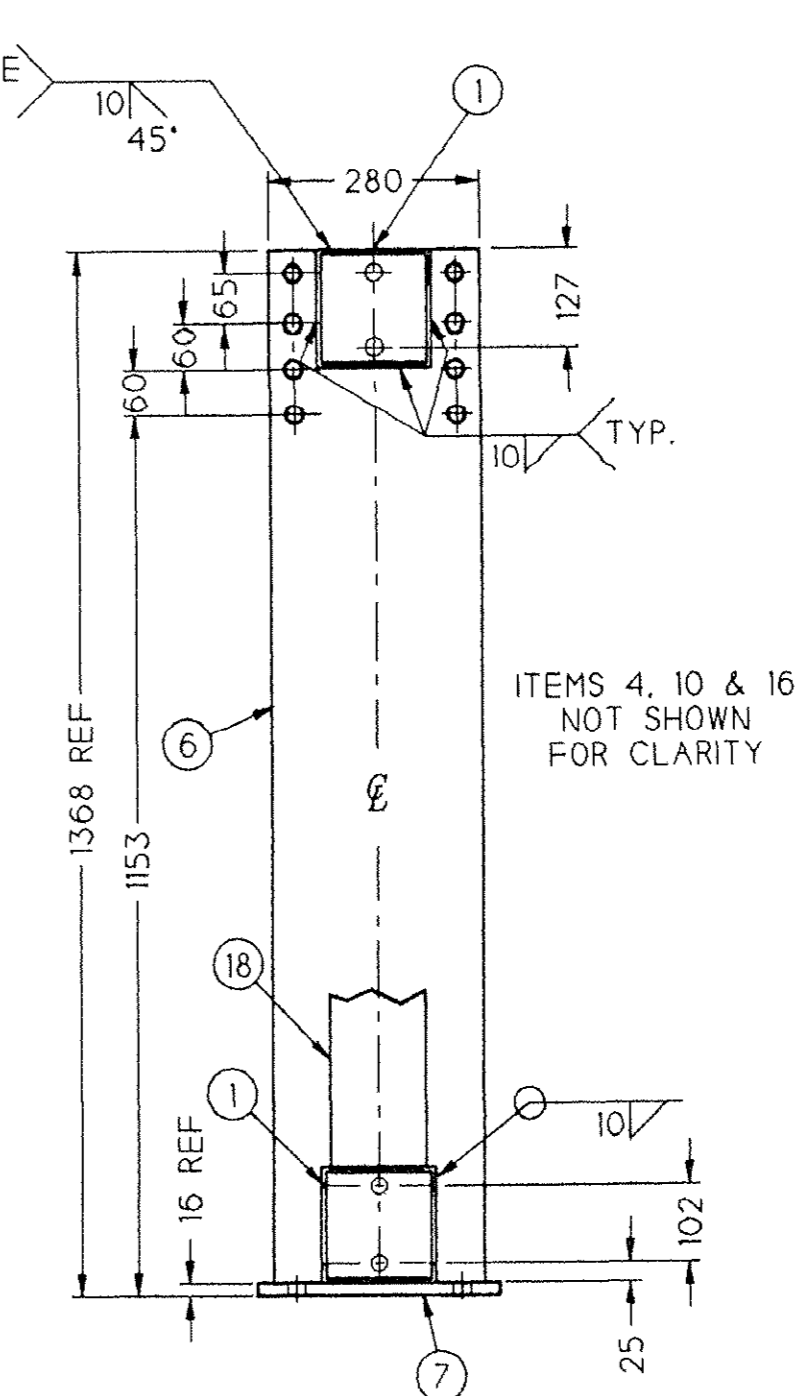
DETAIL "A"
2x SCALE



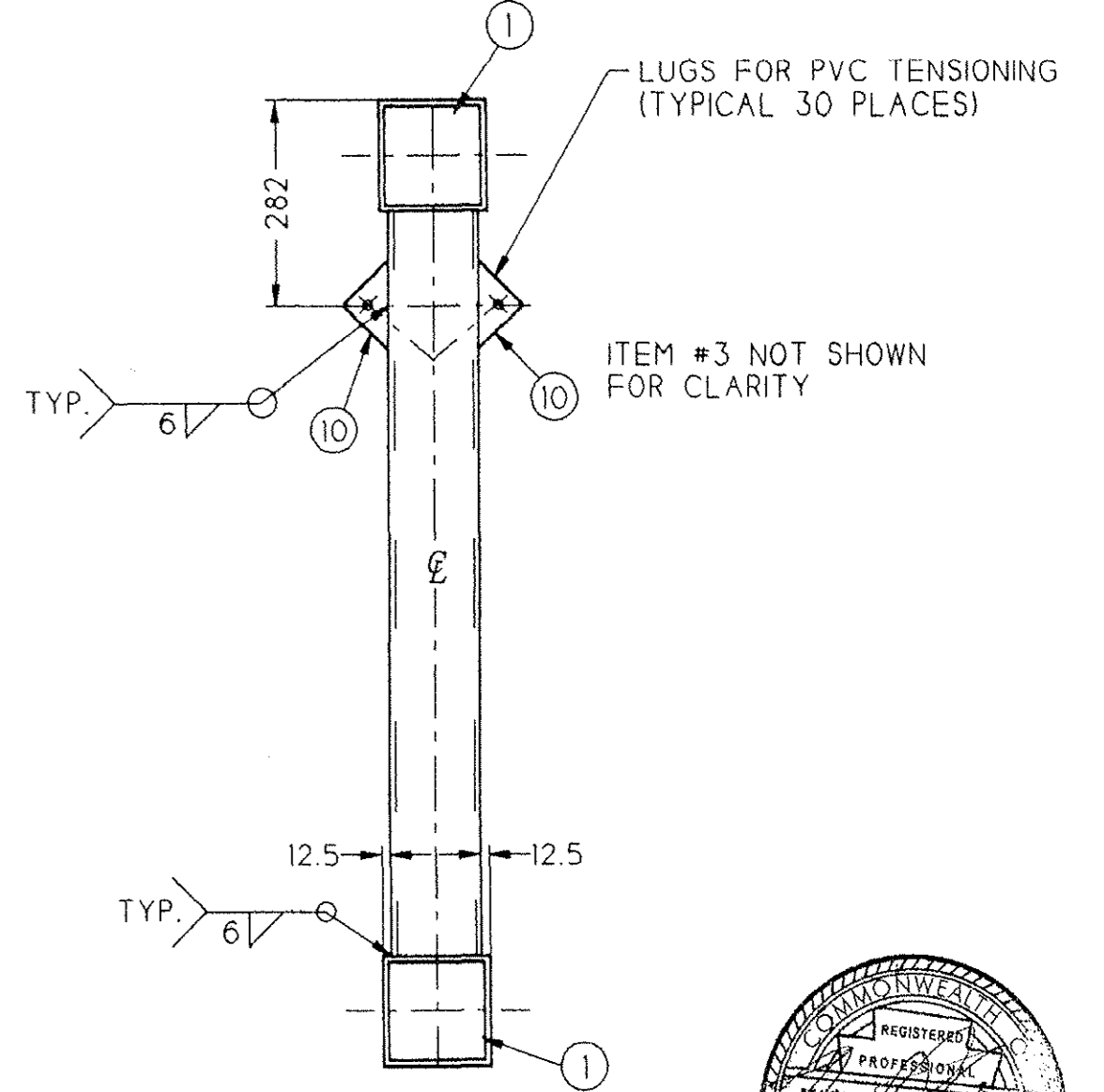
DETAIL "B"
2x SCALE



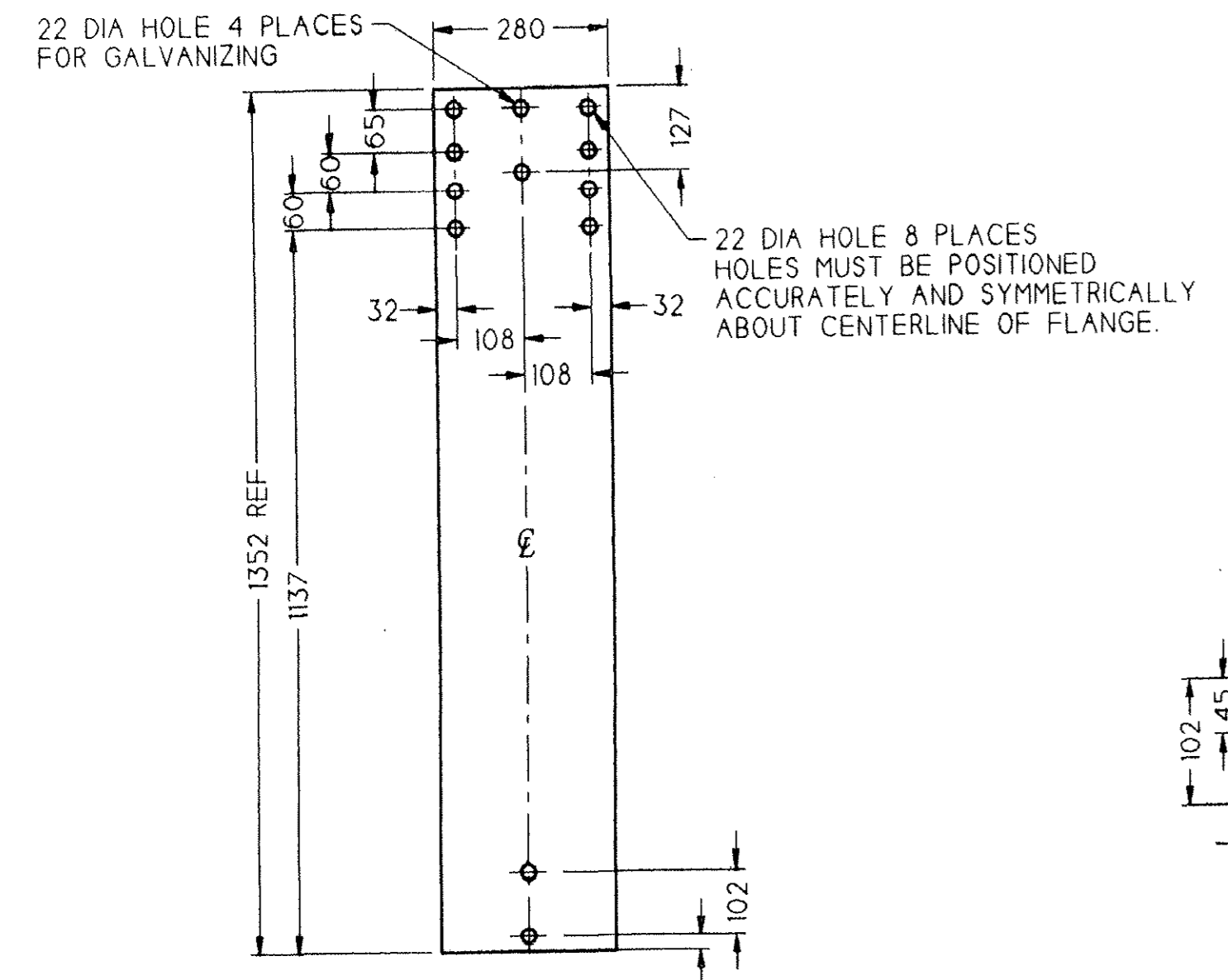
SECTION "A-A"
2x SCALE



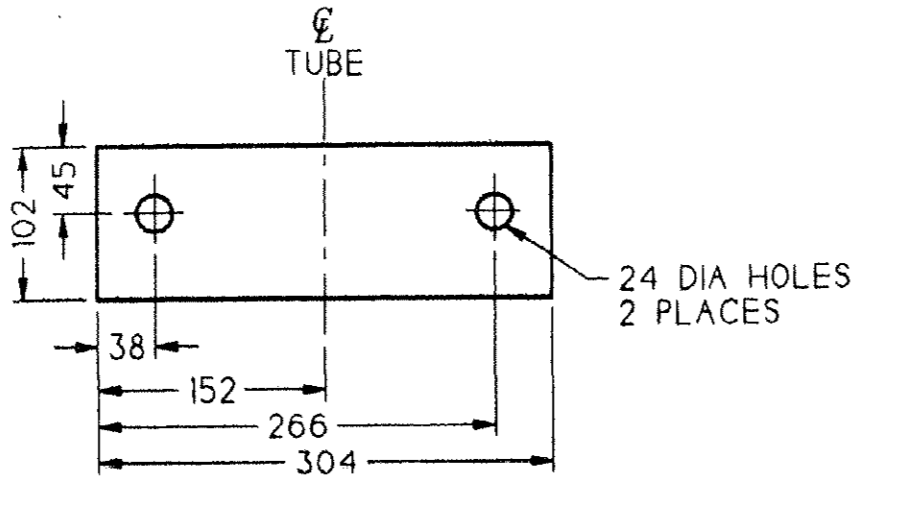
SECTION "B-B"
2x SCALE



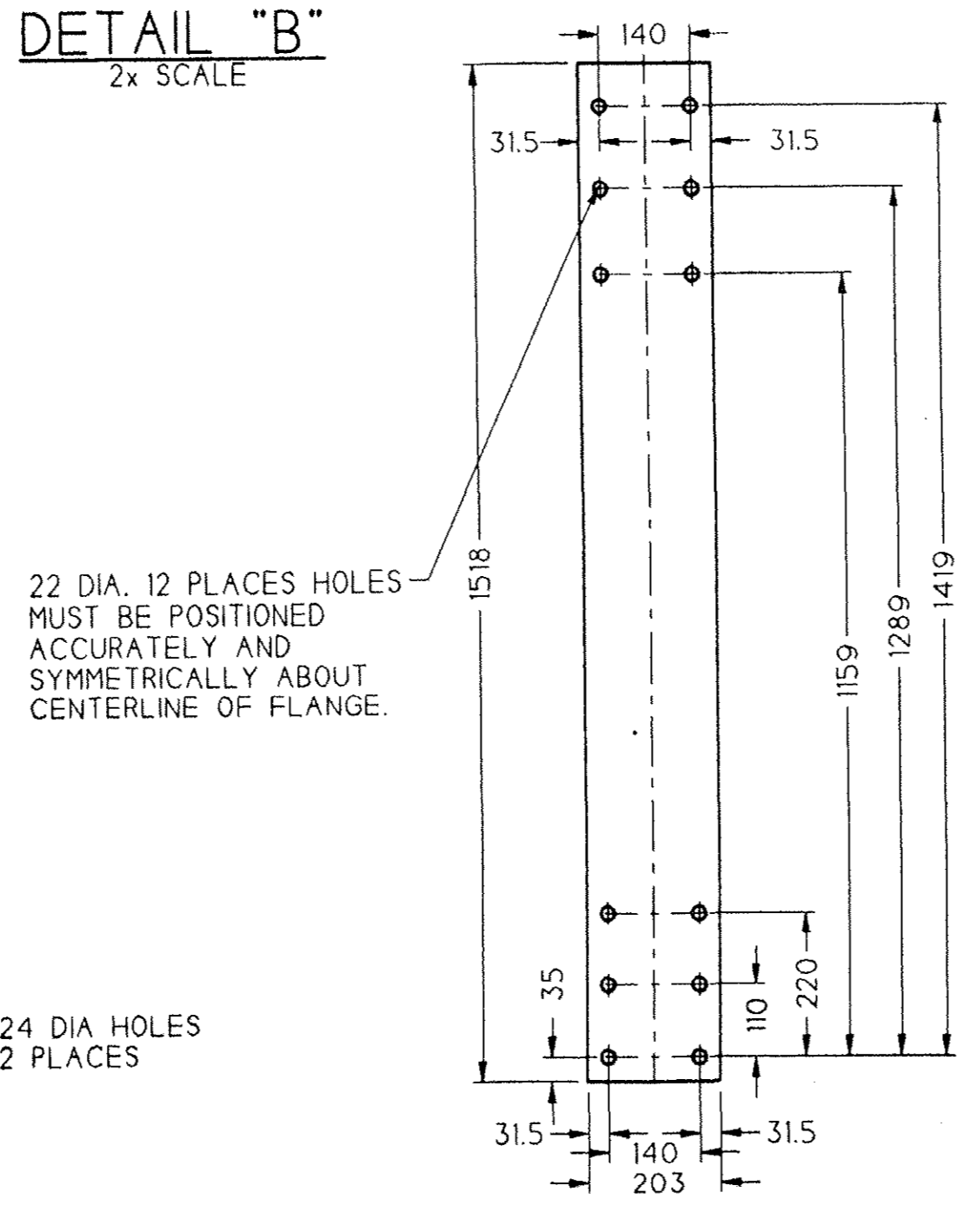
SECTION "C-C"
2x SCALE



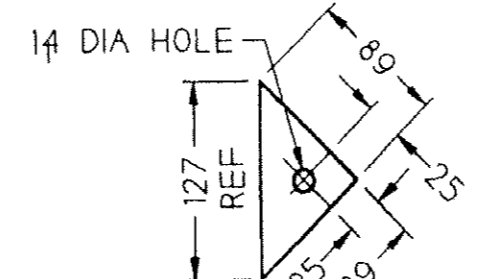
ITEM #6
2x SCALE



ITEM #7
4x SCALE

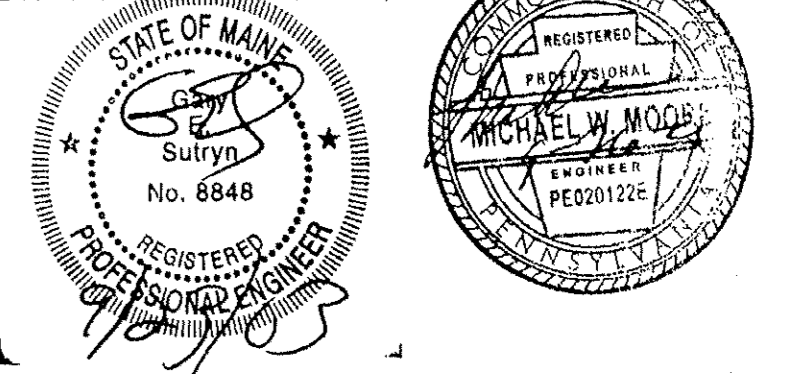


ITEM #8
2x SCALE



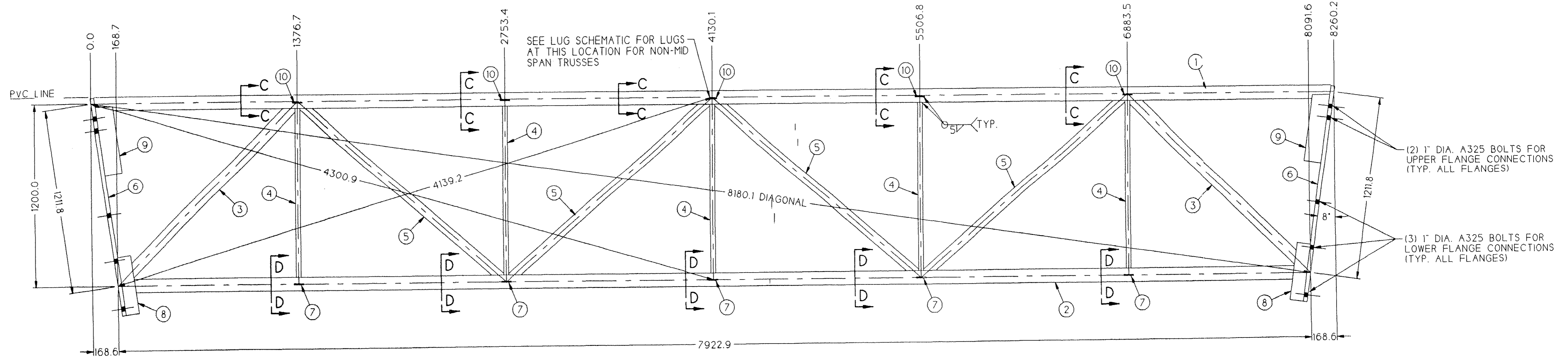
ITEM #10
4x SCALE

- NOTES:
- 1) BREAK SHARP CORNERS FOR PVC.
 - 2) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
 - 3) BILL OF MATERIAL IS FOR ONE ASSEMBLY.
 - 4) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.
 - 5) VENT ALL TUBES AS REQUIRED FOR GALVANIZING.
 - 6) ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS UNLESS NOTED OTHERWISE. ALL BUTT-WELDS TO BE FULL STRENGTH. FULL PENETRATION BUTT WELDS.

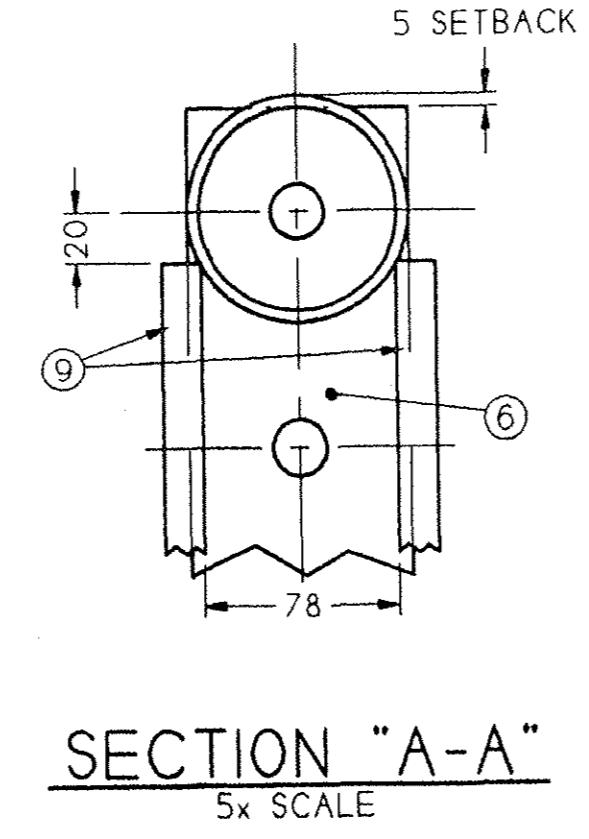
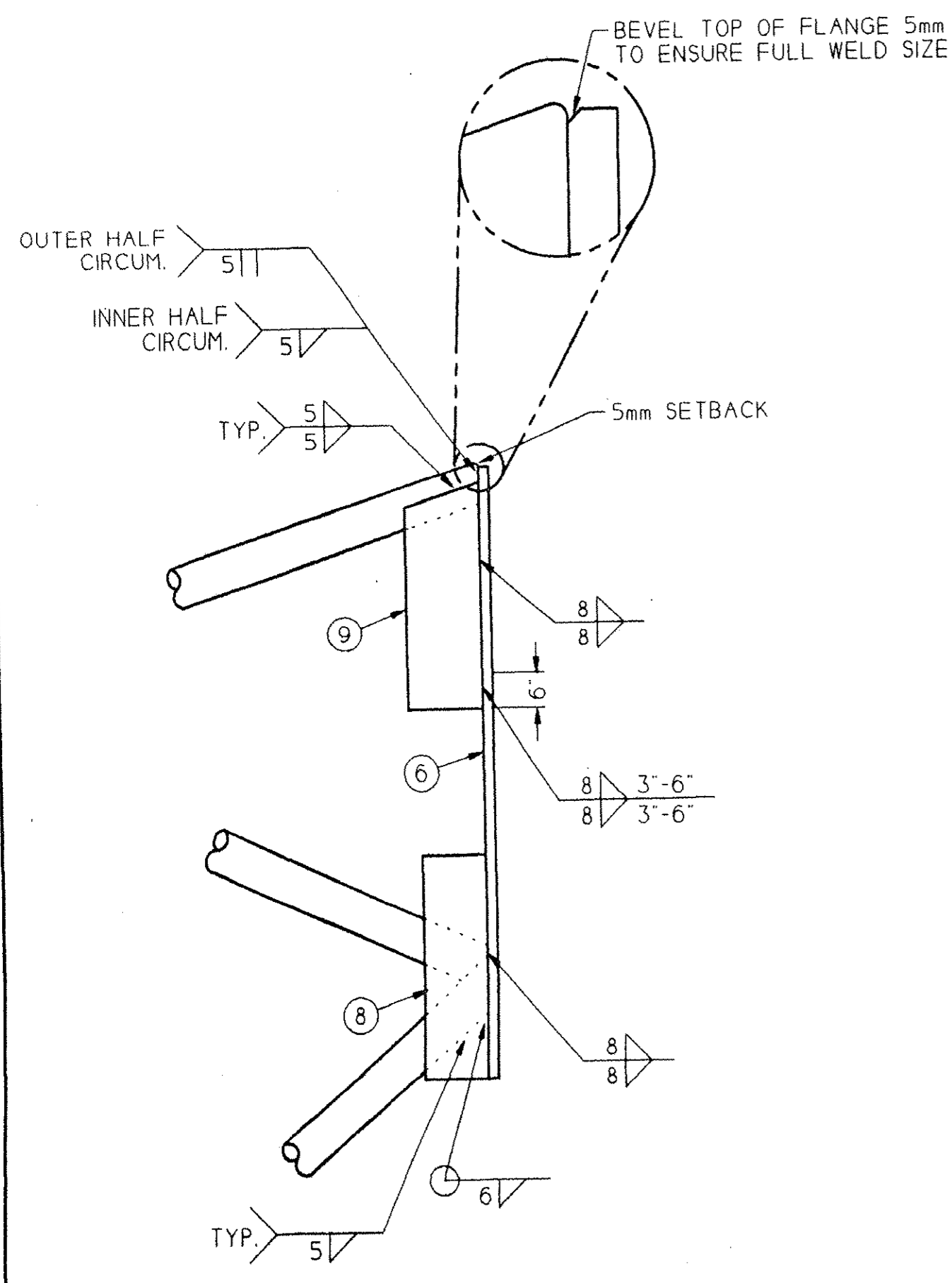
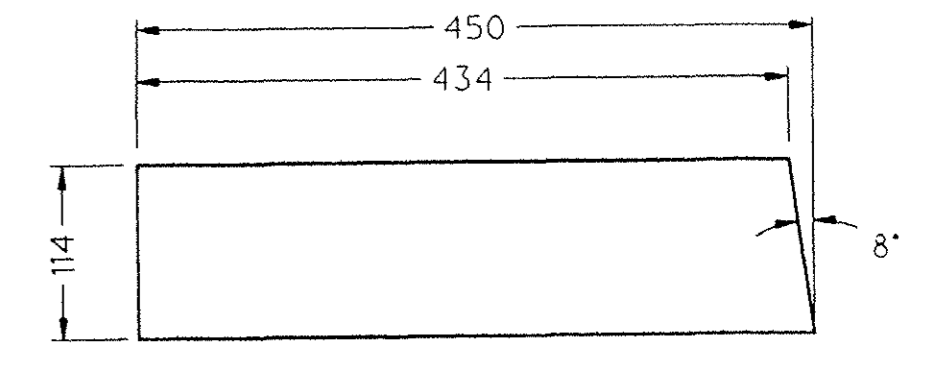
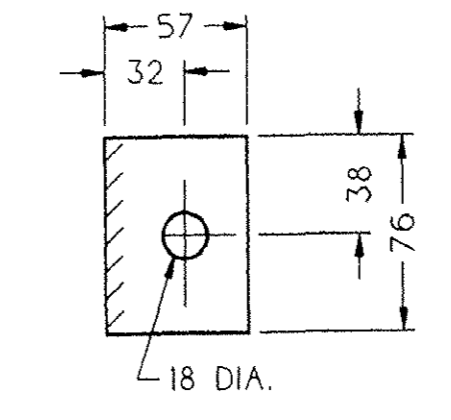
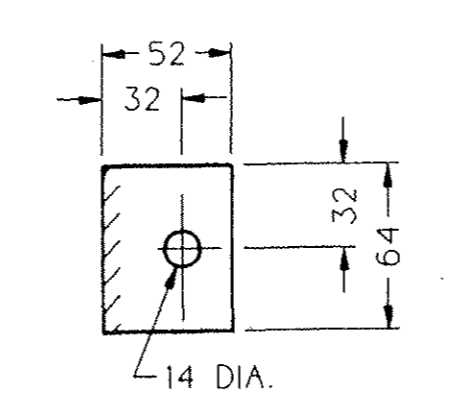
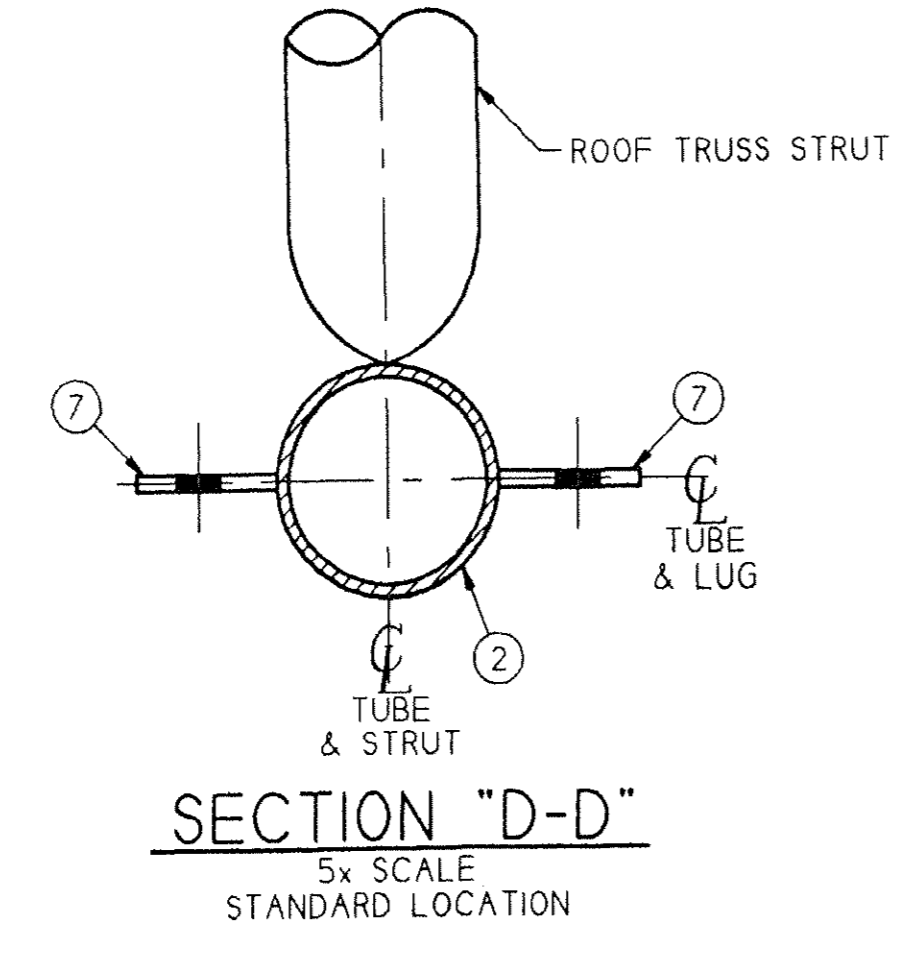
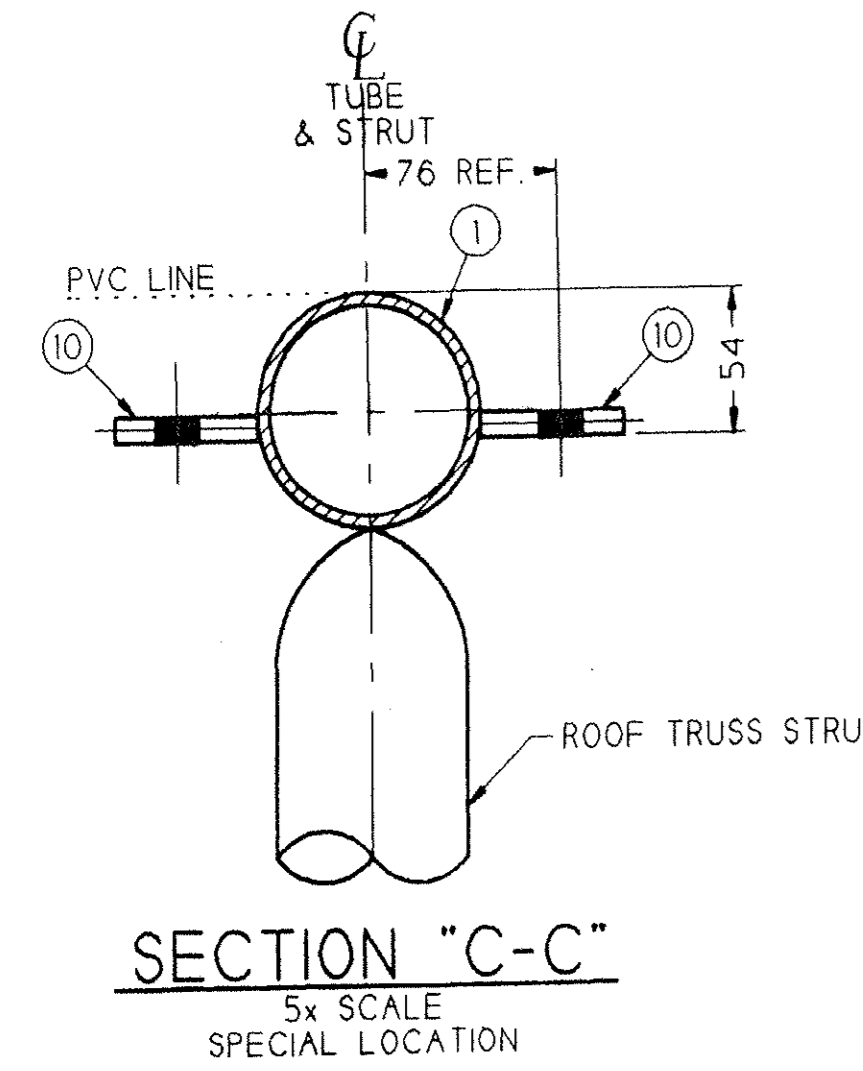


ITEM	QTY	DESCRIPTION	SPEC.	MIN. YIELD
1	2	TS 6" x 6" x 3/8" x 11382	A500	50 ksi
2	9	TS 5" x 3" x 3/16"	A500	50 ksi
3	6	TS 5" x 3" x 3/16"	A500	50 ksi
4	2	TS 5" x 3" x 3/16"	A500	50 ksi
5	4	TS 5" x 3" x 3/16"	A500	50 ksi
6	2	FLAT 3/4" x 280 x 1352	A36	36 ksi
7	2	FLAT 5/8" x 4" x 304	A36	36 ksi
8	4	FLAT 3/4" x 8" x 1518	A36	36 ksi
9	8	FLAT 3/8" x 3 1/2" x 152	A36	36 ksi
10	30	FLAT 3/8" x 3 1/2" x 89	A36	36 ksi
11	2	FLAT 3/8" x 6" x 1048	A36	36 ksi
12	2	FLAT 3/8" x 6" x 287	A36	36 ksi
13	-	-	-	-
14	8	FLAT 3" x 3/8" x 321	A36	36 ksi
15	8	FLAT 3/8" x 6" x 170	A36	36 ksi
16	2	TS 5" x 3" x 3/16"	A500	50 ksi
17	-	-	-	-
18	2	TS 5" x 3" x 3/16"	A500	50 ksi

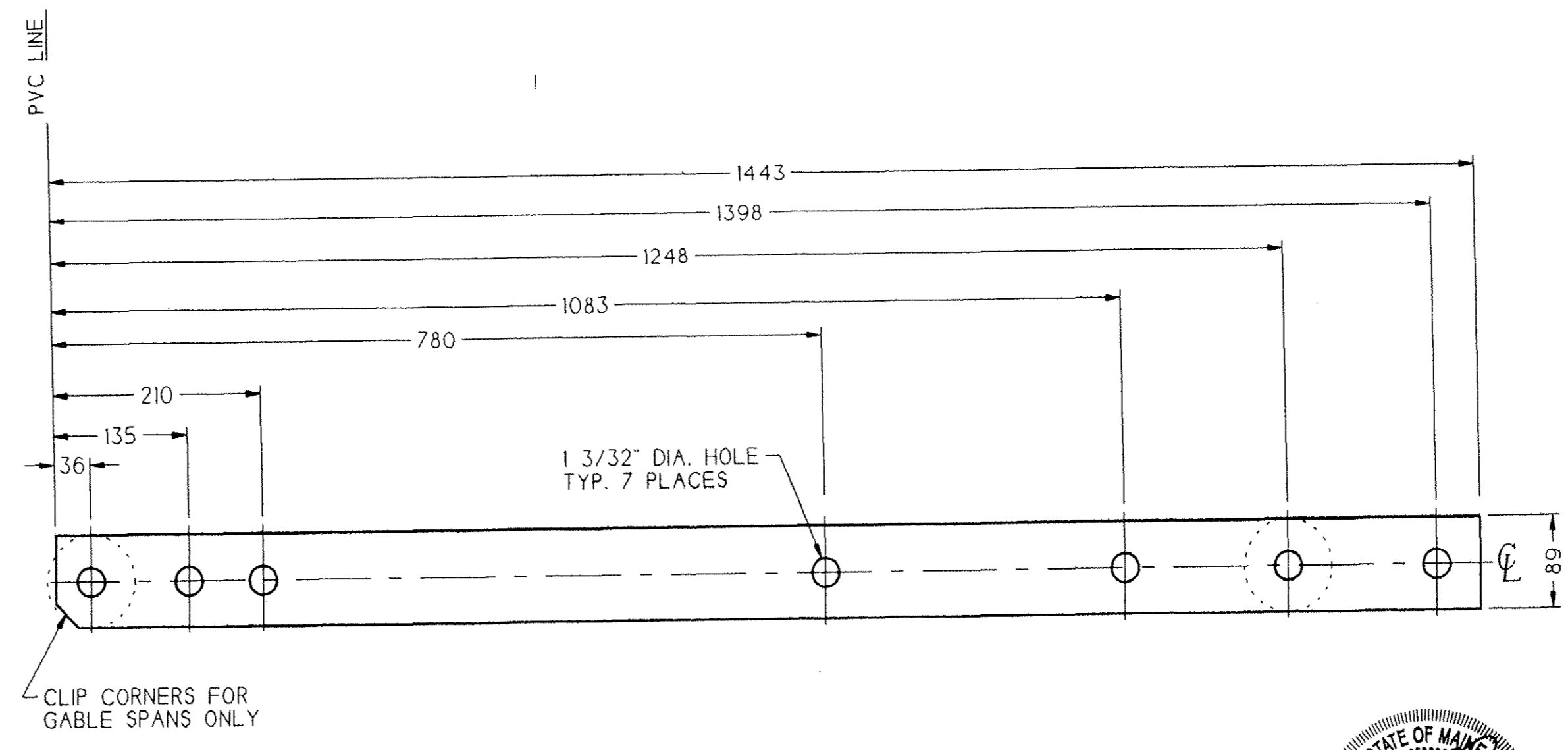
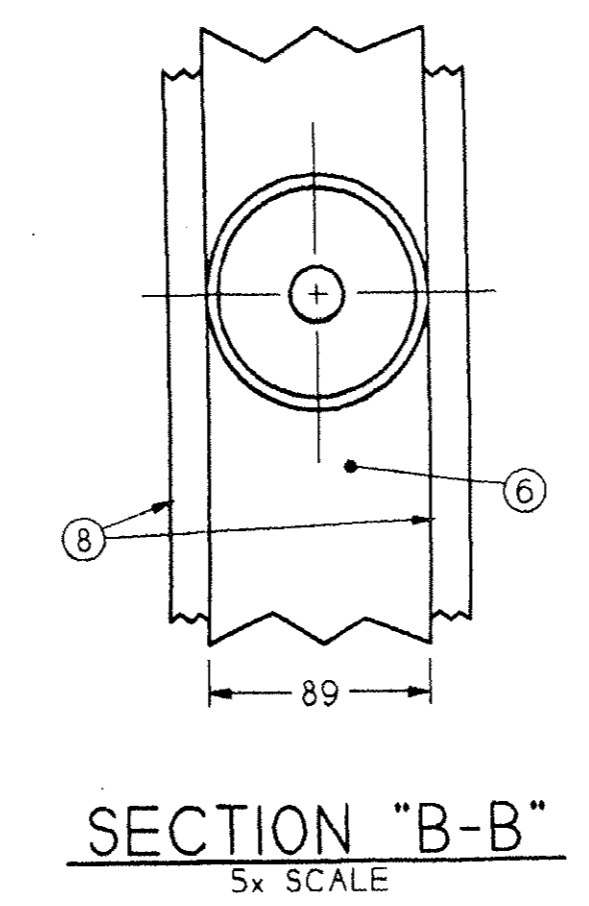
REV	DESCRIPTION	DATE	APP.
A	REVISED FOR FABRICATION.		
We Cover The World		33.5m BVE BLINK / 7m LEG	
RUBB BUILDING SYSTEMS		37.5' CENTRAL GIRDER MID BAYS	
DATE	SCALE	This drawing is the property of Rubb, Inc. and may not be reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.	
APP. KV 8-25-03	1 : 20		
DATE GES 8-25-03	JOB NO. 03088		
	JOB NAME		
	JMG		
RUBB, INC. SANFORD MAINE 04073		DRAWING NO. 37947	
TEL: 207-324-2877 FAX 207-324-2347			



VALLEY LOWER ROOF TRUSS
MID SPAN TRUSS SHOWN

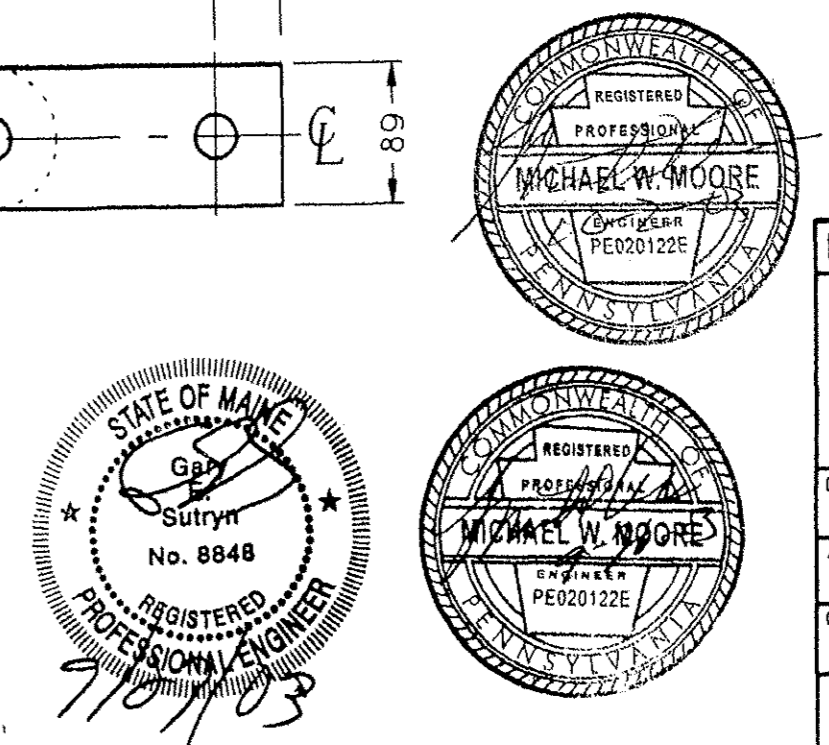


SHOP NOTE:
CHECK THAT SOCKET FOR
1" BOLT FITS BETWEEN
STIFFENER WELDS.



ITEM	QTY	DESCRIPTION	SPEC	MIN YIELD
1	1	TUBE 3 1/2" DIA. x 188"	A500	50 ksi
2	1	TUBE 3 1/2" DIA. x 188"	A500	50 ksi
3	2	TUBE 3" DIA. x 120"	A500	50 ksi
4	5	TUBE 1 1/4" DIA. x 0.095"	A500	50 ksi
5	4	TUBE 2 3/8" DIA. x 120"	A500	50 ksi
6	2	FLAT 3 1/2" x 1" x 1443"	-	42 ksi
7	5/10	FLAT 2 1/2" x 1/4" x 52"	A36	36 ksi
8	4	FLAT 3 1/2" x 3/8" x 380"	-	42 ksi
9	4	FLAT 4 1/2" x 1/2" x 450"	-	42 ksi
10	5/10	FLAT 3" x 3/8" x 57"	A36	36 ksi

- NOTES:
 1) BREAK SHARP CORNERS FOR PVC.
 2) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
 3) BILL OF MATERIAL IS FOR ONE ASSEMBLY.
 4) SEE LUG SCHEMATIC FOR ADDITIONAL LUG DETAILS.
 5) VENT ALL TUBES FOR GALVANIZING.
 6) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.



JIG #217

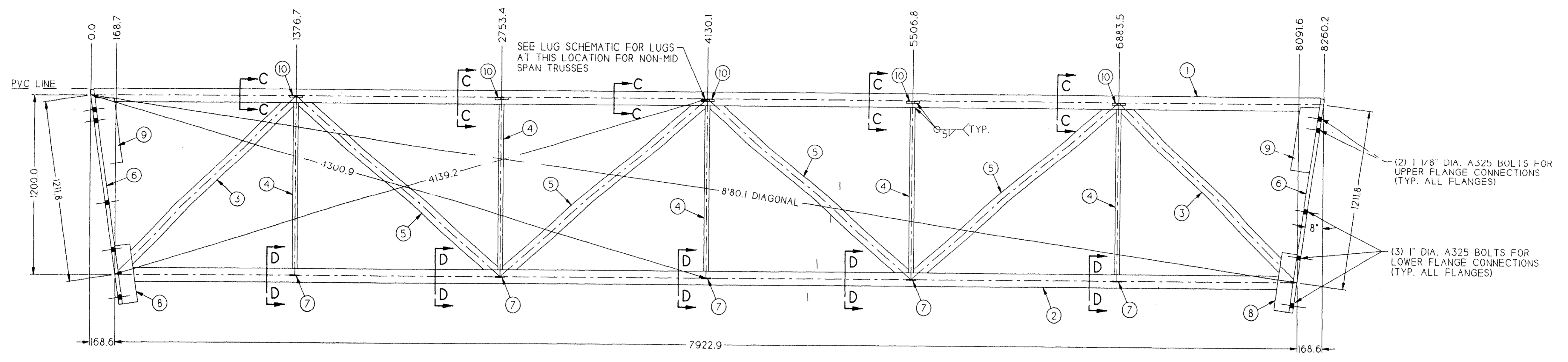
REV	DESCRIPTION	DRAWN	APP.	DATE
1	33.5m BVE BILINK / 7m LEG VALLEY LOWER ROOF TRUSS - 12'-6" BAYS 1200 TRUSS DEPTH			

We Cover The World
RUBB
 BUILDING SYSTEMS

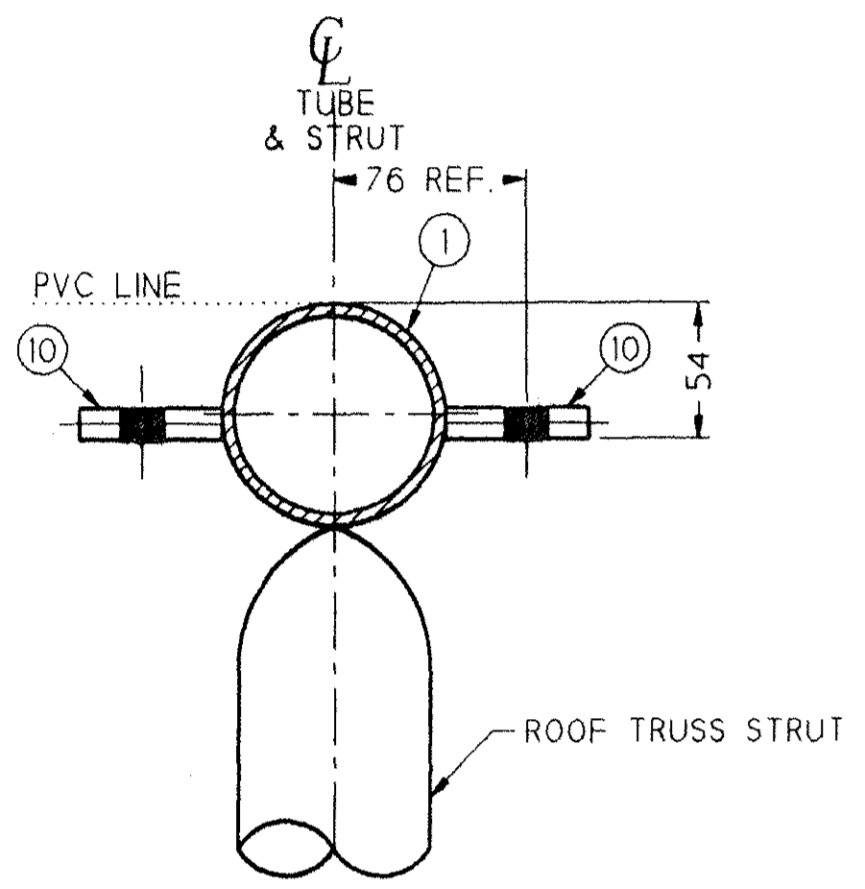
DATE: 8/21/03
 JOB #: 03088
 JOB NAME: JMG

RUBB, INC. SANFORD MAINE 04073
 TEL: 207-324-2877 FAX 207-324-2347

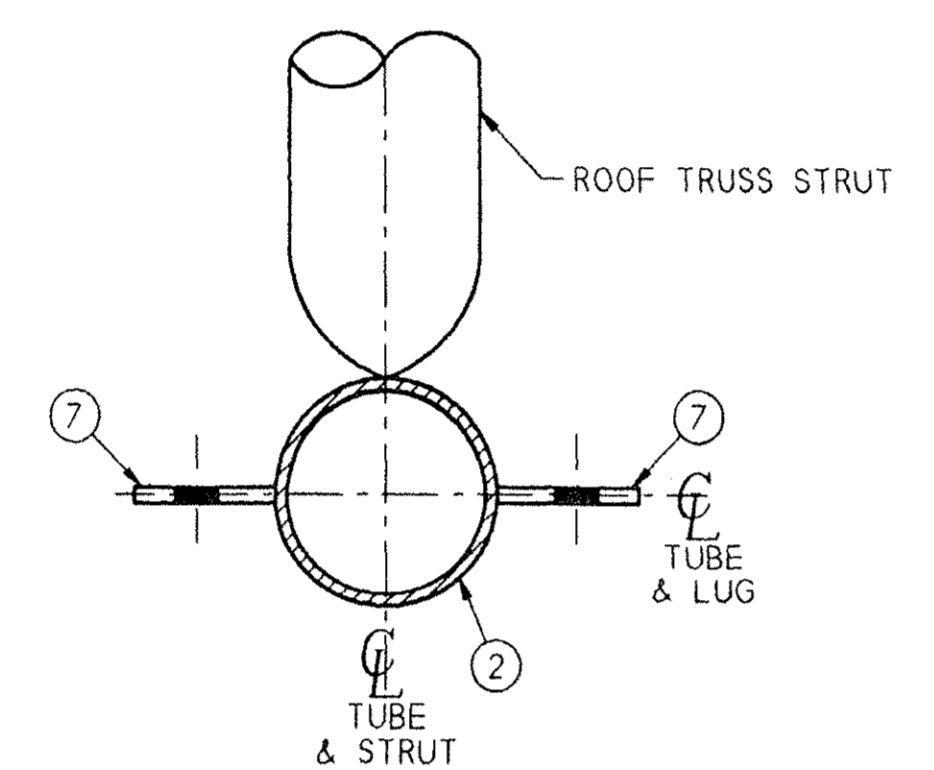
37949



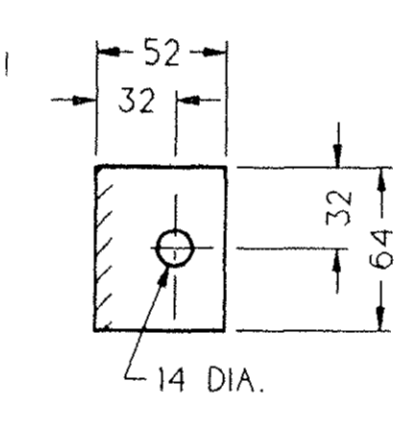
VALLEY LOWER ROOF TRUSS
MID SPAN TRUSS SHOWN



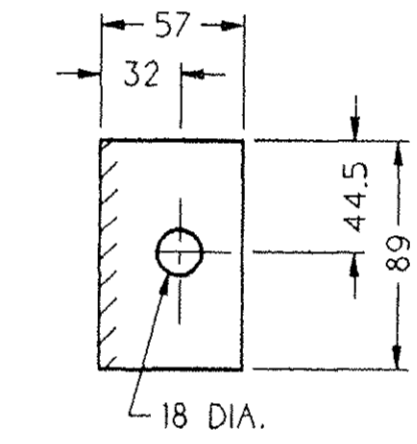
SECTION "C-C"
5x SCALE
SPECIAL LOCATION



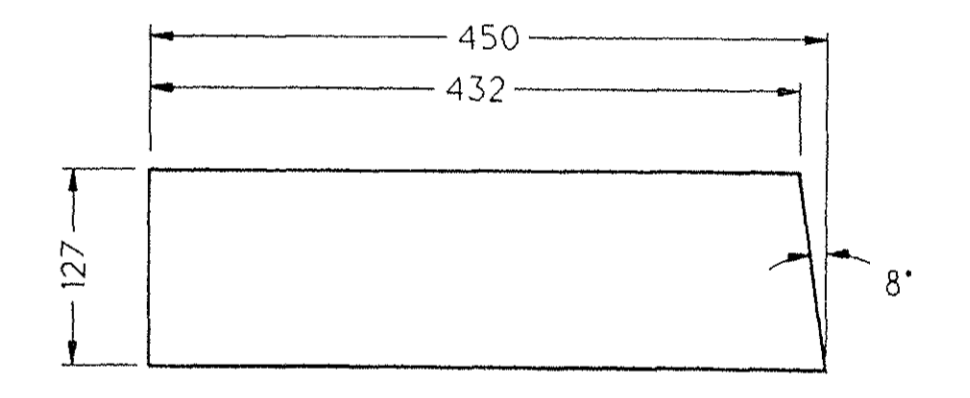
SECTION "D-D"
5x SCALE
STANDARD LOCATION



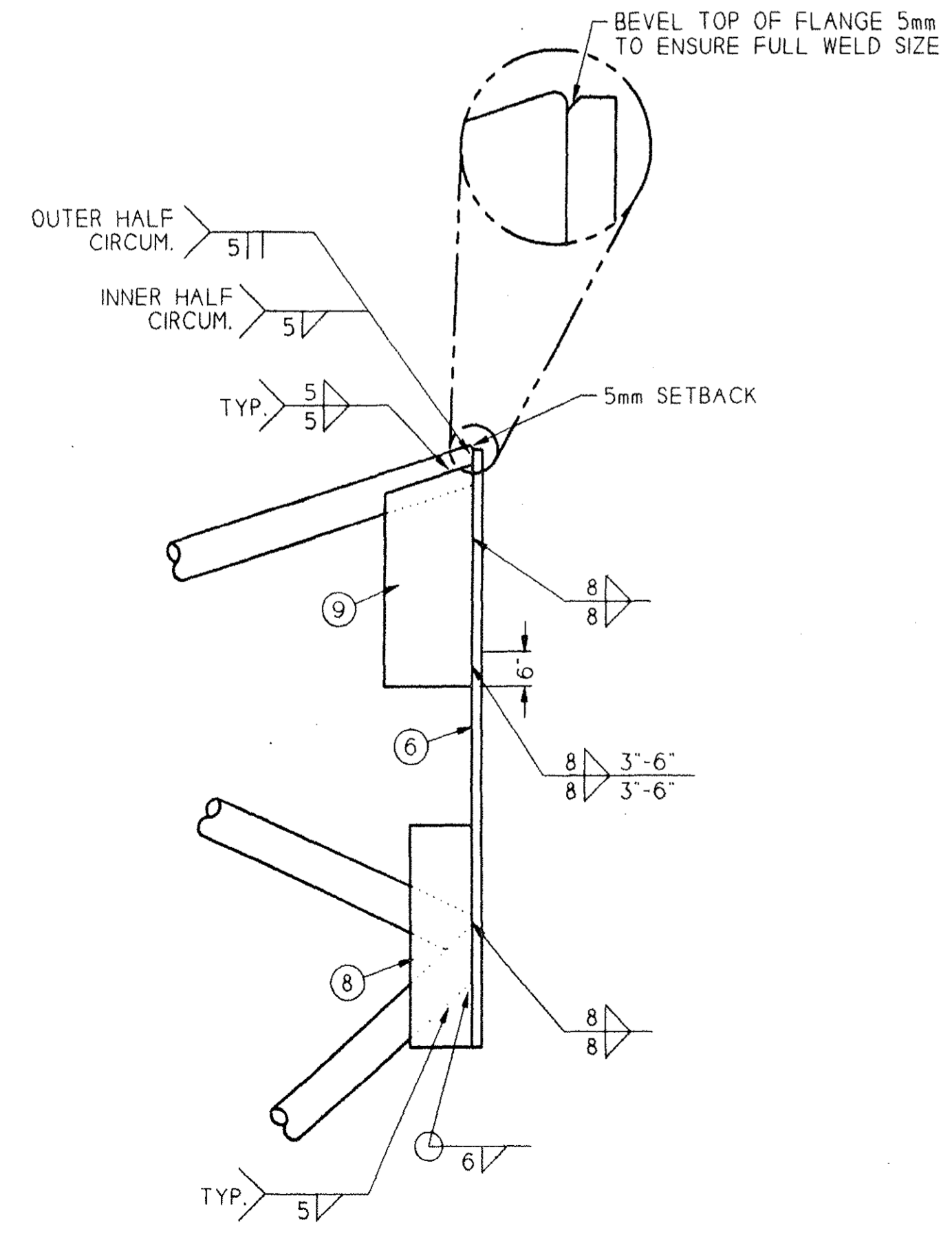
DETAIL ITEM 7
5x SCALE



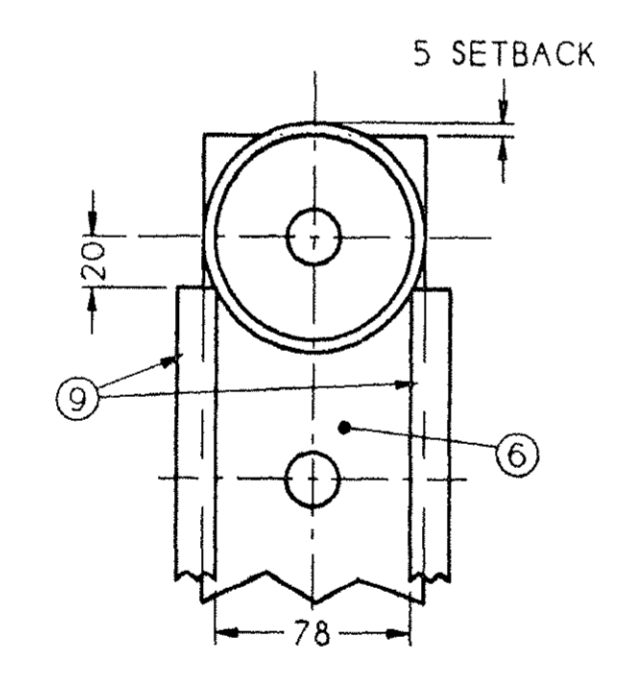
DETAIL ITEM 10
5x SCALE



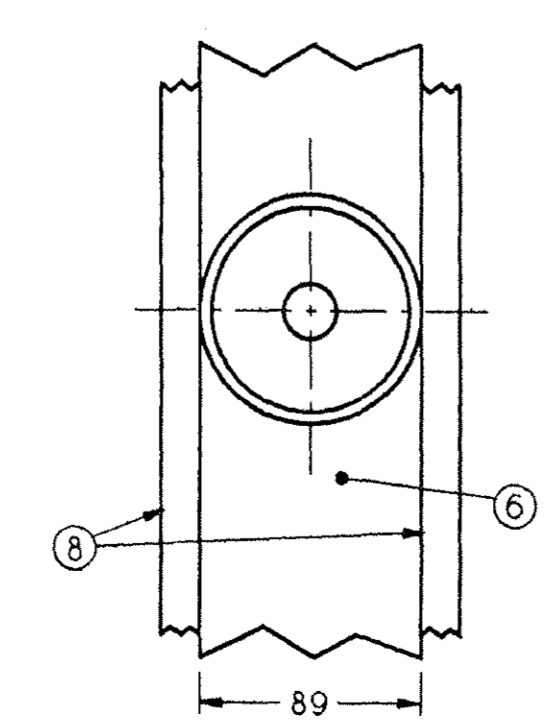
DETAIL ITEM 9
3x SCALE



FLANGE & STIFFENER WELD DETAILS
NOT TO SCALE

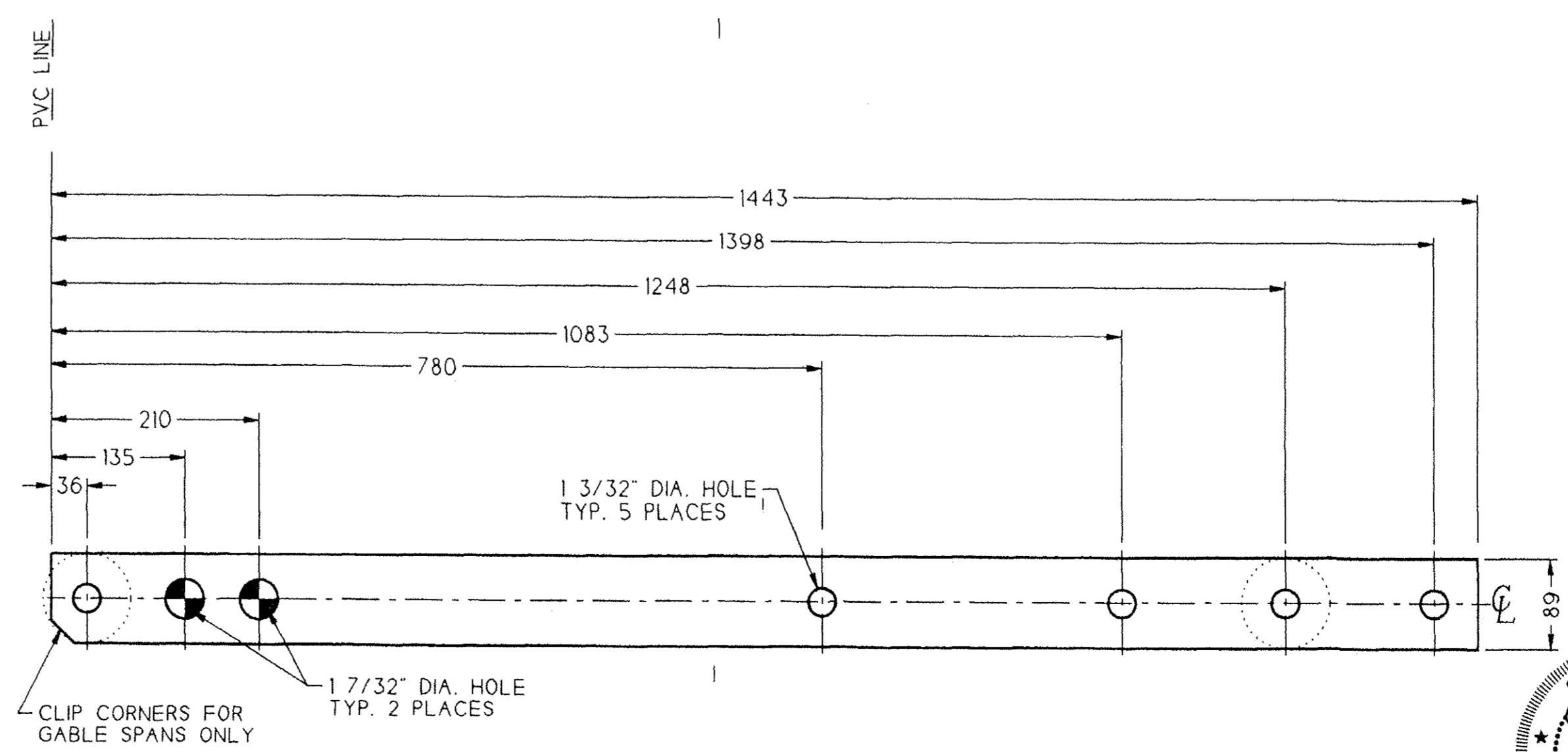


SECTION "A-A"
5x SCALE



SECTION "B-B"
5x SCALE

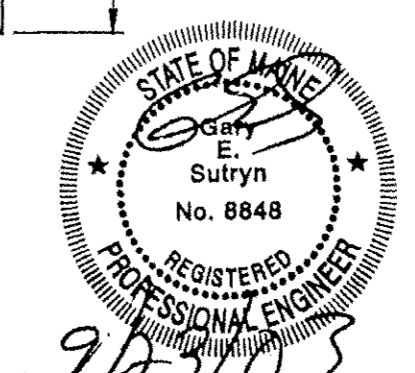
SHOP NOTE:
CHECK THAT SOCKET FOR
1" BOLT FITS BETWEEN
STIFFENER WELDS.



DETAIL ITEM 6
3x SCALE

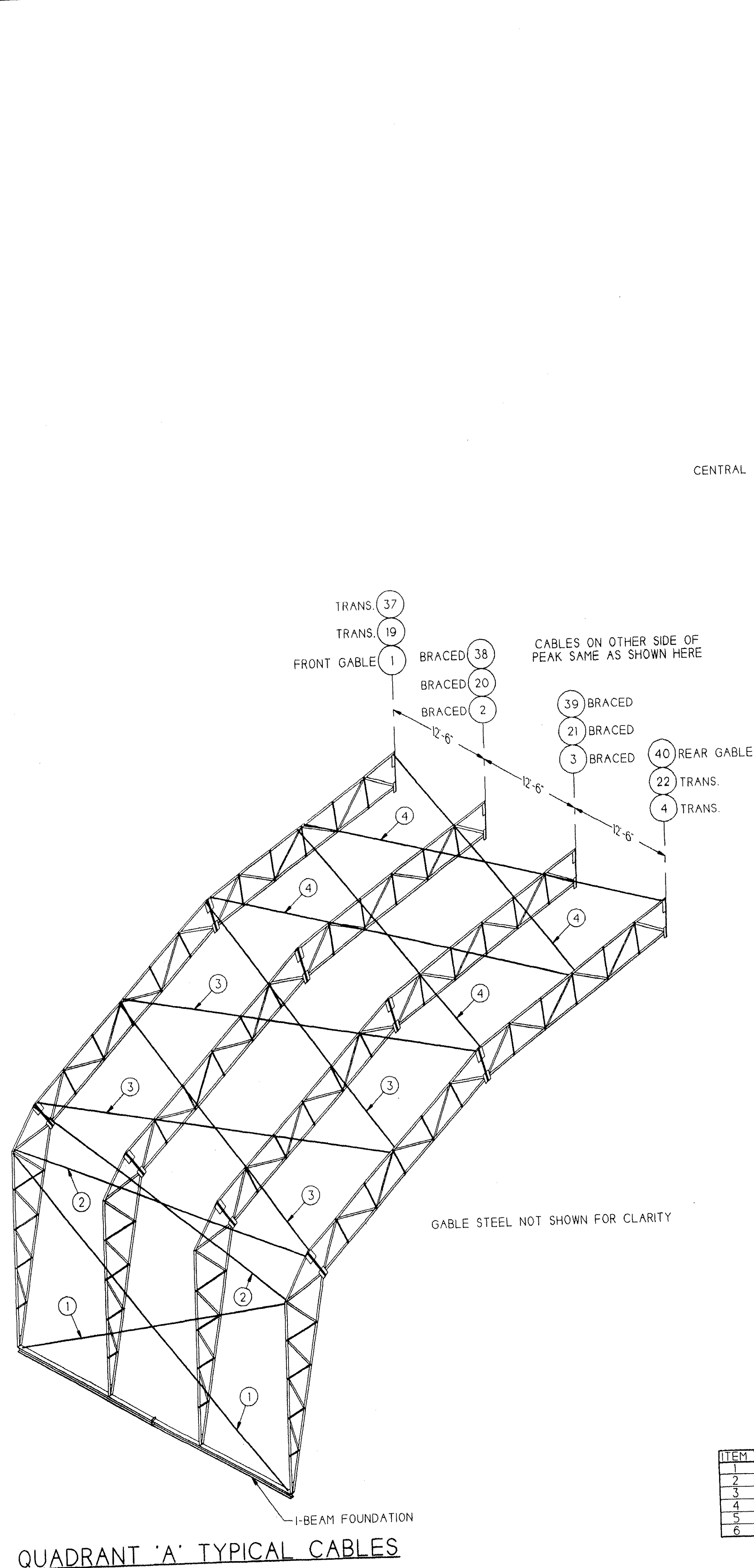
ITEM	QTY.	DESCRIPTION	SPEC.	MIN. YIELD
1	1	TUBE 3 1/2" DIA. x .188"	A500	50 ksi
2	1	TUBE 3 1/2" DIA. x .25"	A500	50 ksi
3	2	TUBE 3" DIA. x .120"	A500	56 ksi
4	5	TUBE 1 1/4" DIA. x 0.095"	A500	50 ksi
5	4	TUBE 3" DIA. x .120"	A500	50 ksi
6	2	FLAT 3 1/2" x 1" x 14.43	-	42 ksi
7	10	FLAT 2 1/2" x 1/4" x 52	A36	36 ksi
8	4	FLAT 4" x 3/8" x 380	-	42 ksi
9	4	FLAT 5" x 5/8" x 450	-	42 ksi
10	10	FLAT 3 1/2" x 1/2" x 57	A36	36 ksi

- NOTES:
 1) BREAK SHARP CORNERS FOR PVC.
 2) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
 3) BILL OF MATERIAL IS FOR ONE ASSEMBLY.
 4) SEE LUG SCHEMATIC FOR ADDITIONAL LUG DETAILS.
 5) VENT ALL TUBES FOR GALVANIZING.
 6) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.

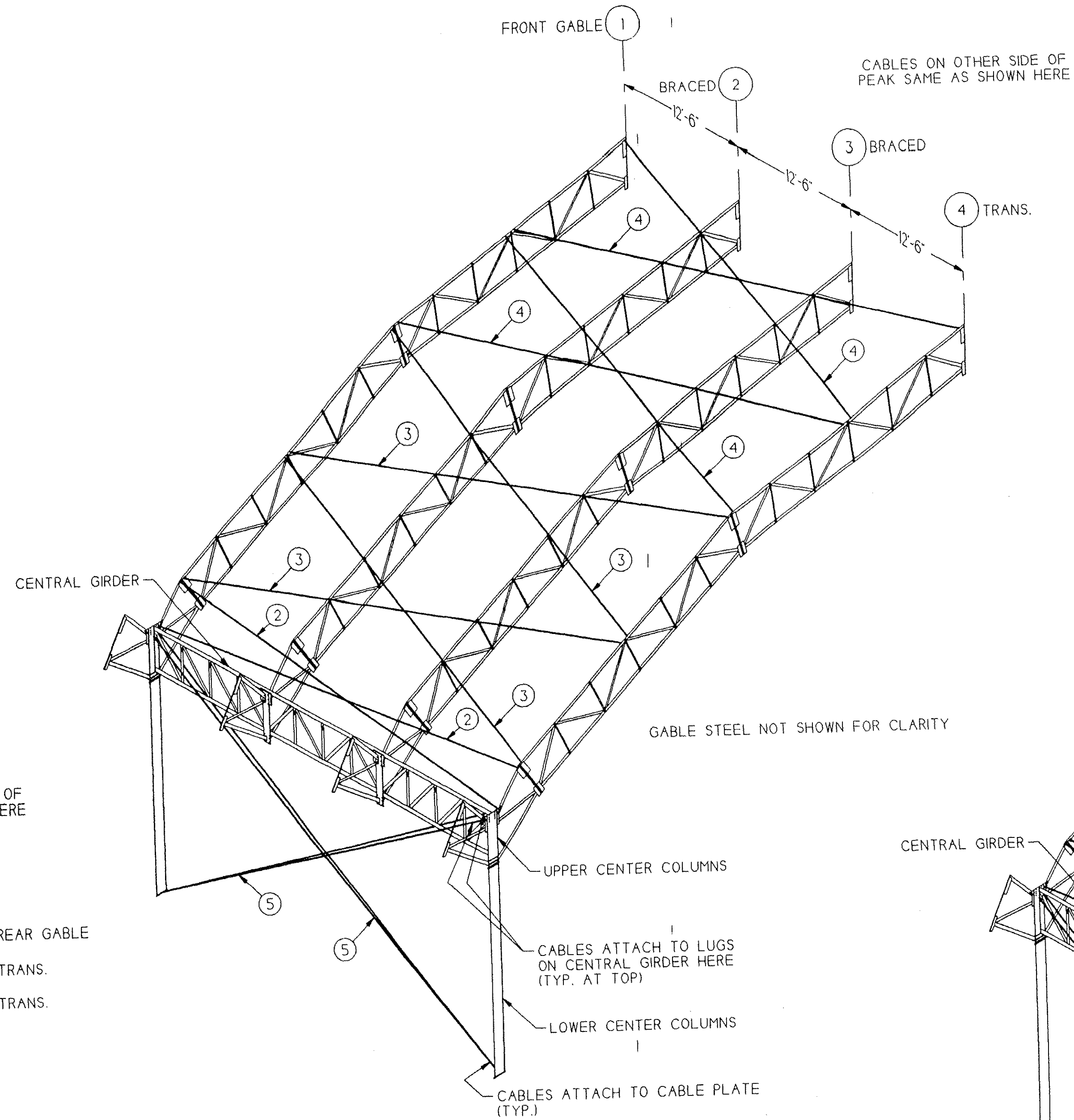


JIG #217

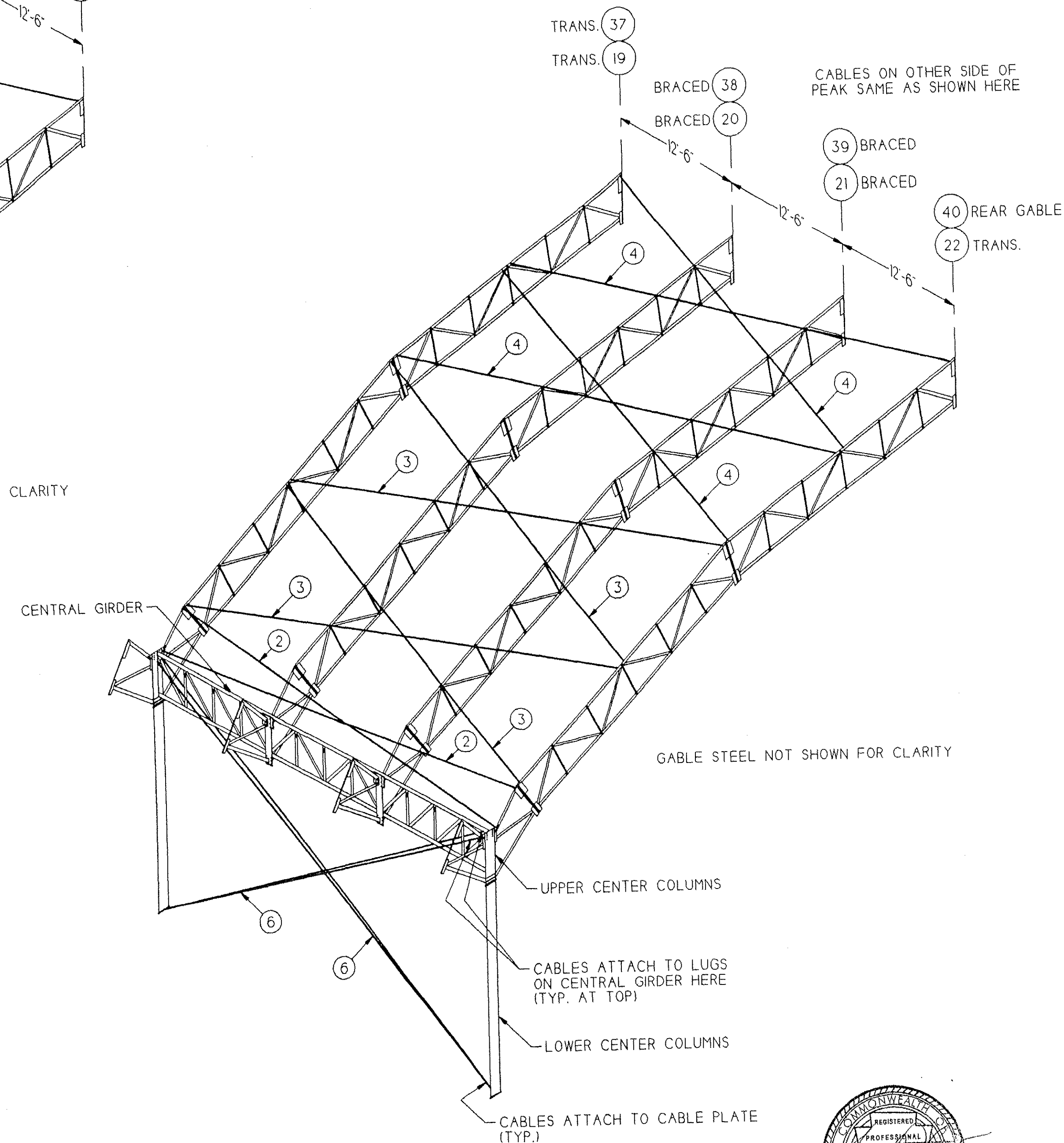
A	CHANGED ITEMS #6 & #9	MRB	AS	9/10/03
REV.	DESCRIPTION	DRAWN	APP.	DATE
We Cover The World		TITLE		
RUBB BUILDING SYSTEMS		33.5m BVE BILINK / 7m LEG VALLEY LOWER ROOF TRUSS - 24'-0" BAYS 1200 TRUSS DEPTH		
DRAWN	KV 8-20-03	SCALE	1 : 15	This drawing is the property of Rubb, Inc. and may not be reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.
APP.	GES 8/21/03	JOB #	03088	
DATE		JOB NAME	JMG	
RUBB, INC. SANFORD MAINE 04073 TEL: 207-324-2877 FAX 207-324-2347				DRAWING NO. 37950



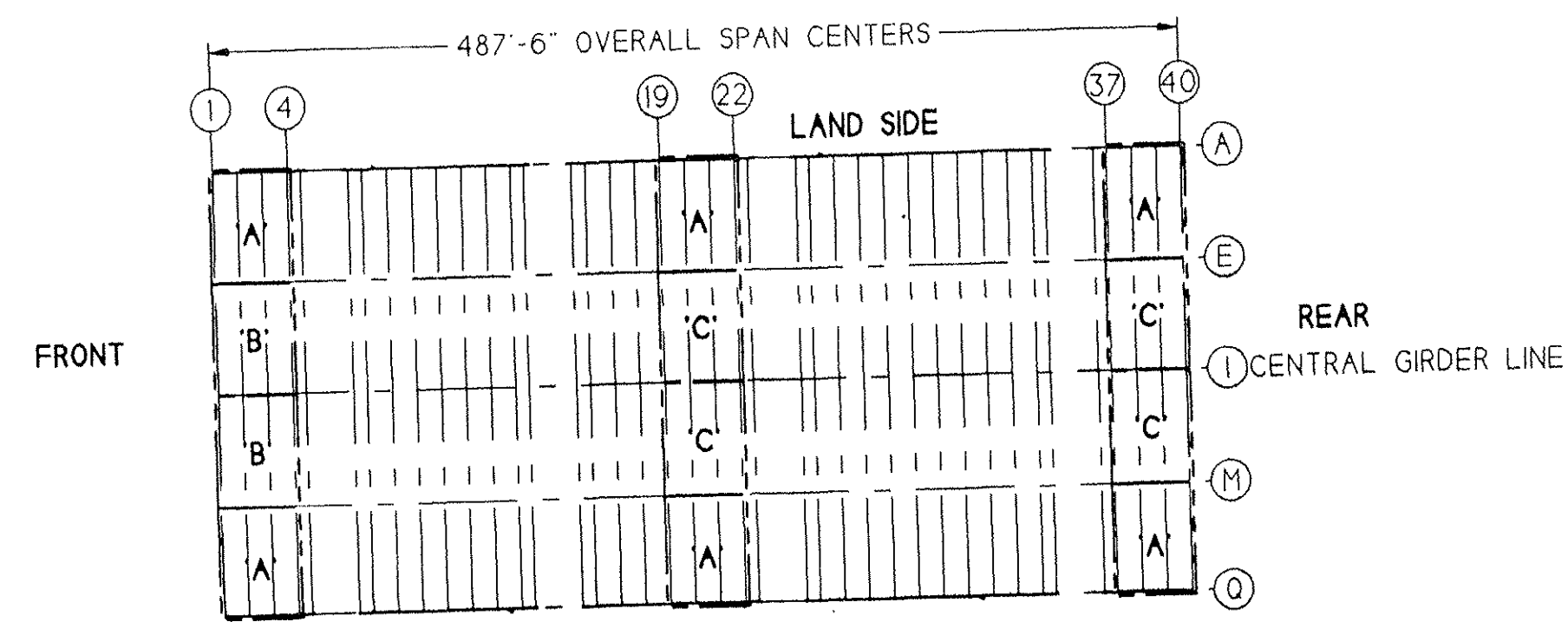
QUADRANT 'A' TYPICAL CABLES



QUADRANT 'B' TYPICAL CABLES

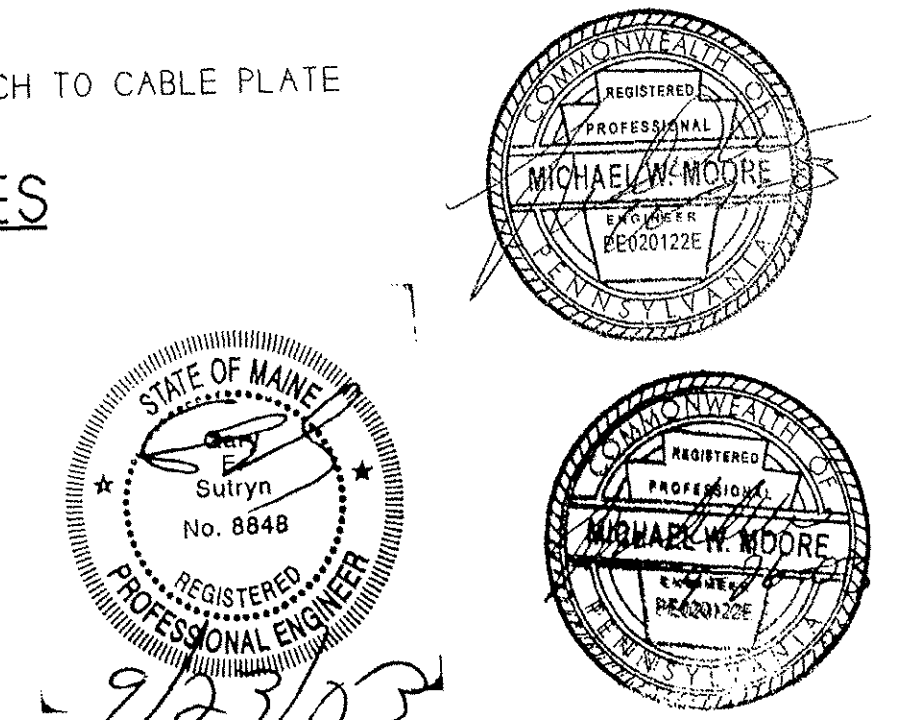


QUADRANT 'C' TYPICAL CABLES

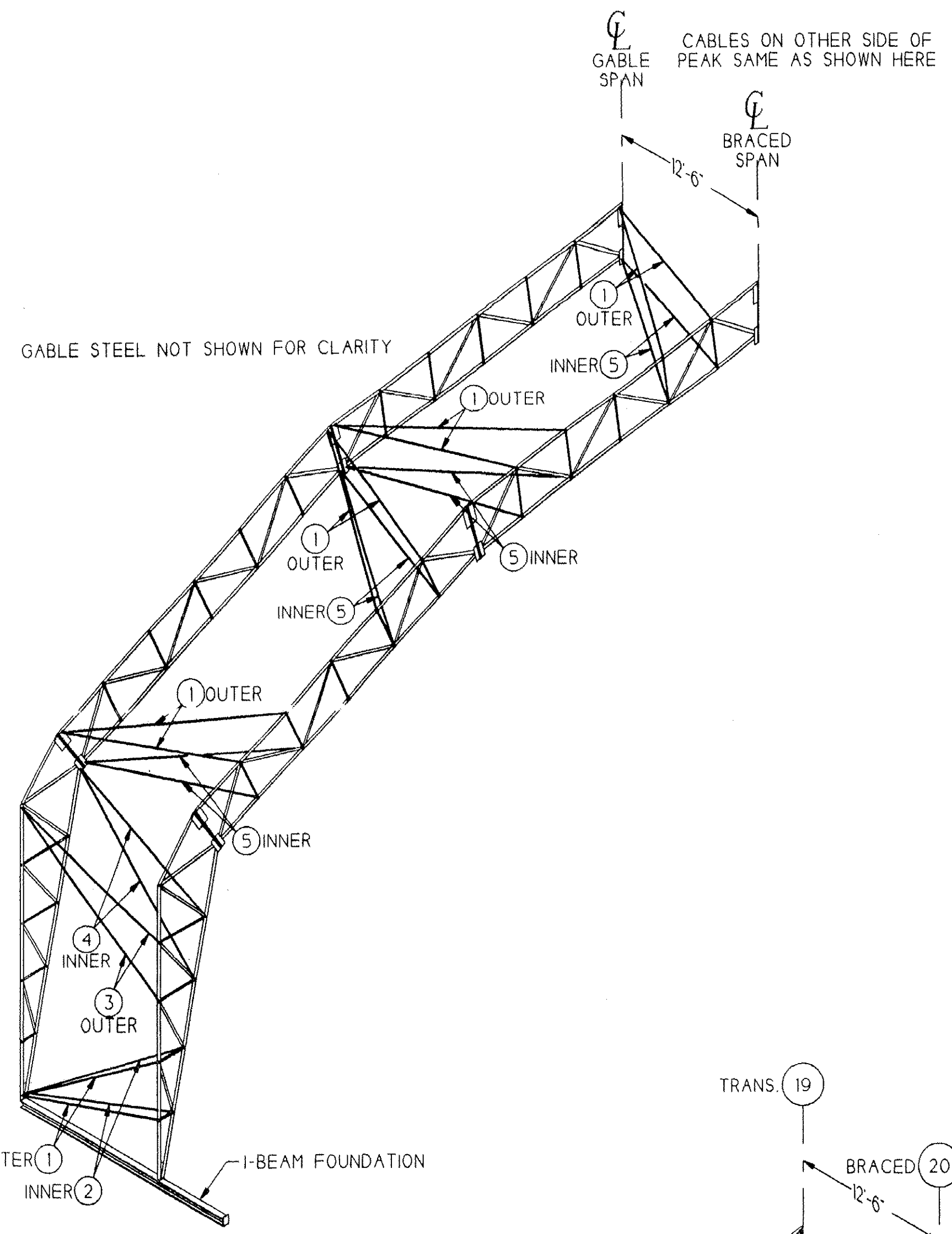


KEY PLAN
1/10x SCALE PROJECT NORTH

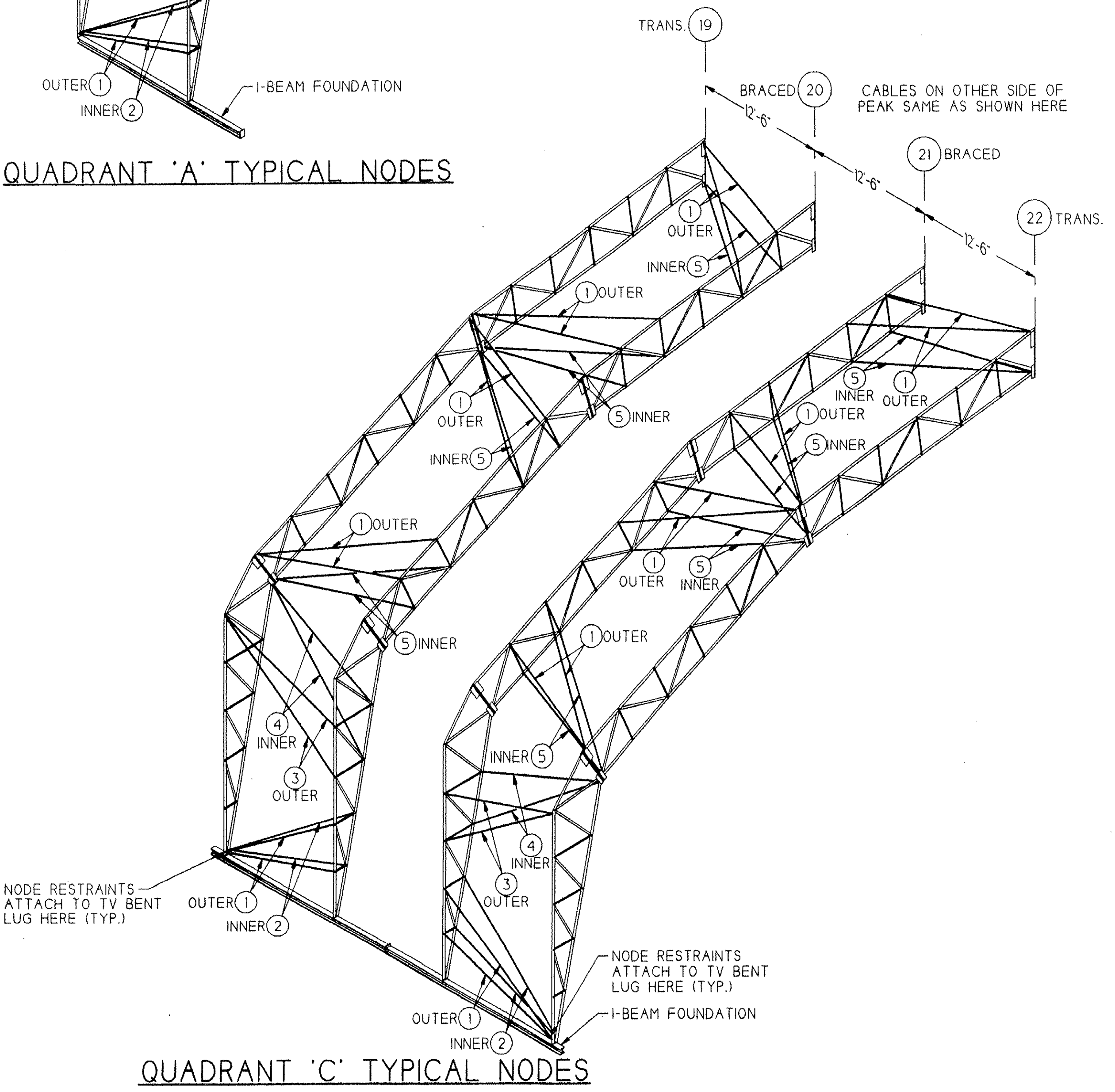
ITEM	QTY.	DESCRIPTION	DRAWING
1	12	LOWER LEG	37955
2	24	UPPER LEG	37955
3	48	LOWER ROOF	37955
4	48	PEAK ROOF	37955
5	2	CENTRAL GIRDER (DOUBLE)	37956
6	4	CENTRAL GIRDER (DOUBLE)	37956



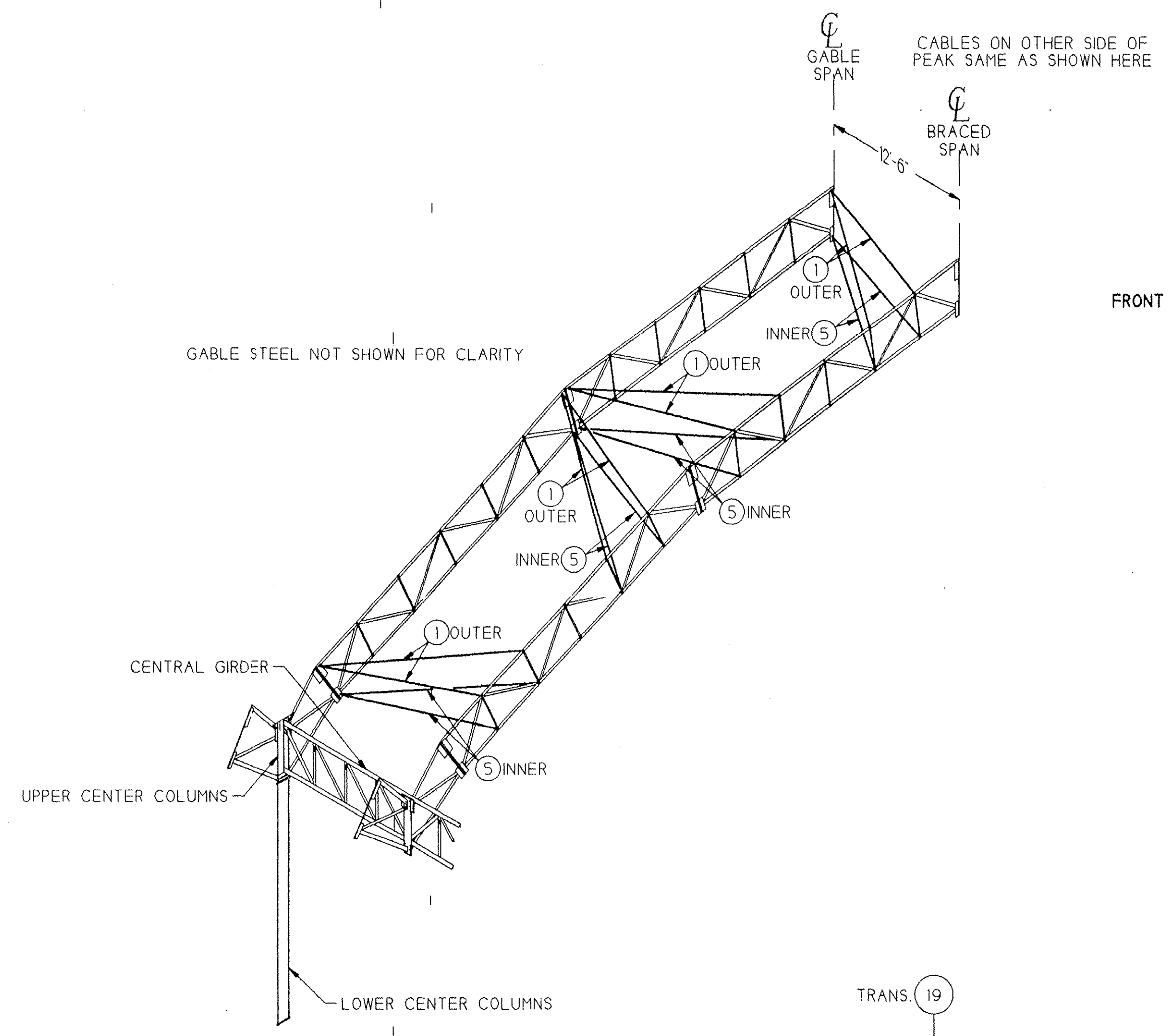
REV.	DESCRIPTION	DRAWN	APP.	DATE
	33.5m BVE BILINK / 7m LEG WIND BRACING CABLE ISOMETRIC			
	1 : 100			
	03088			
	JMG			
	RUBB, INC. SANFORD MAINE 04073			37952
	TEL: 207-324-2877 FAX 207-324-2347			



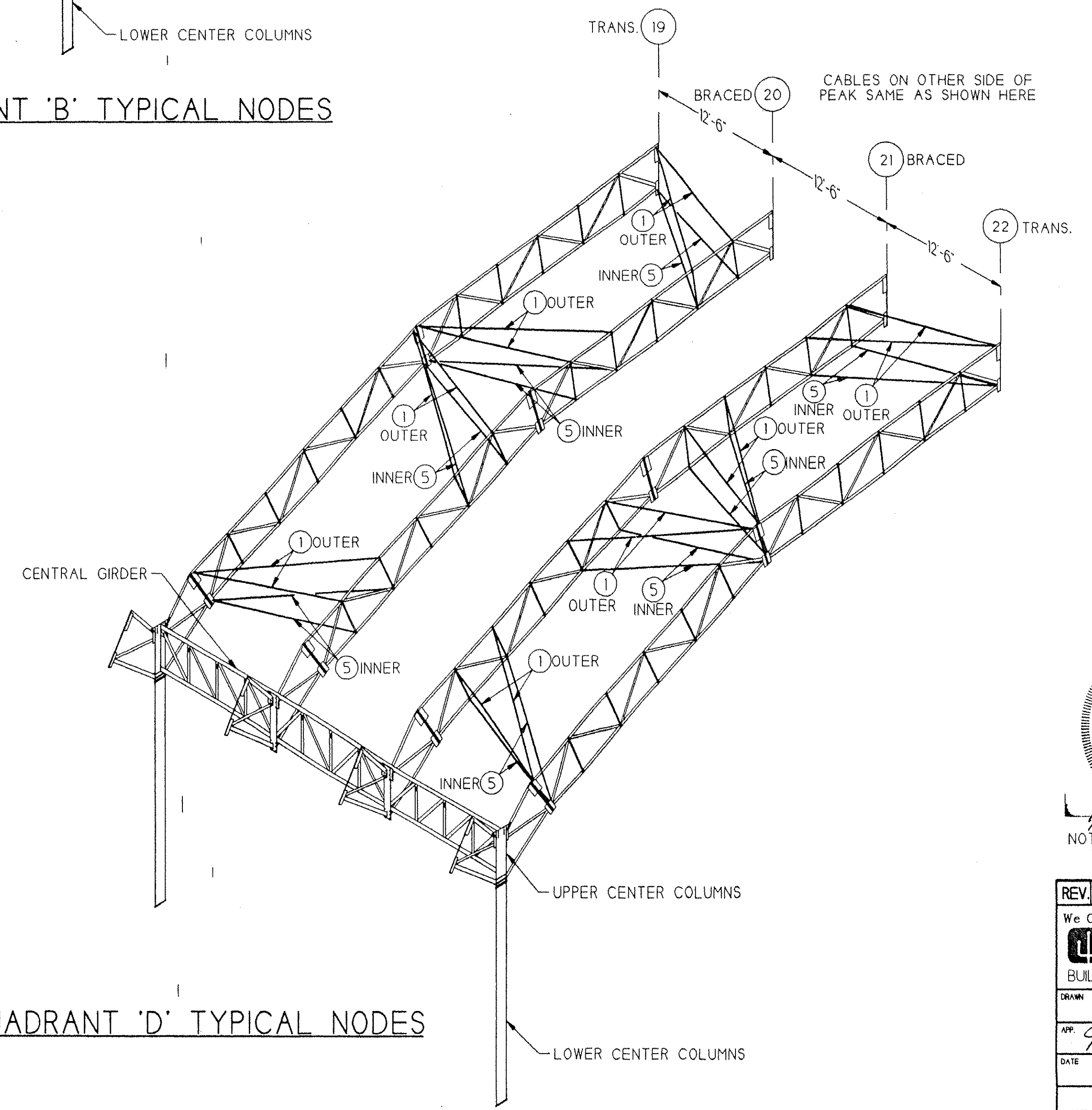
QUADRANT 'A' TYPICAL NODES



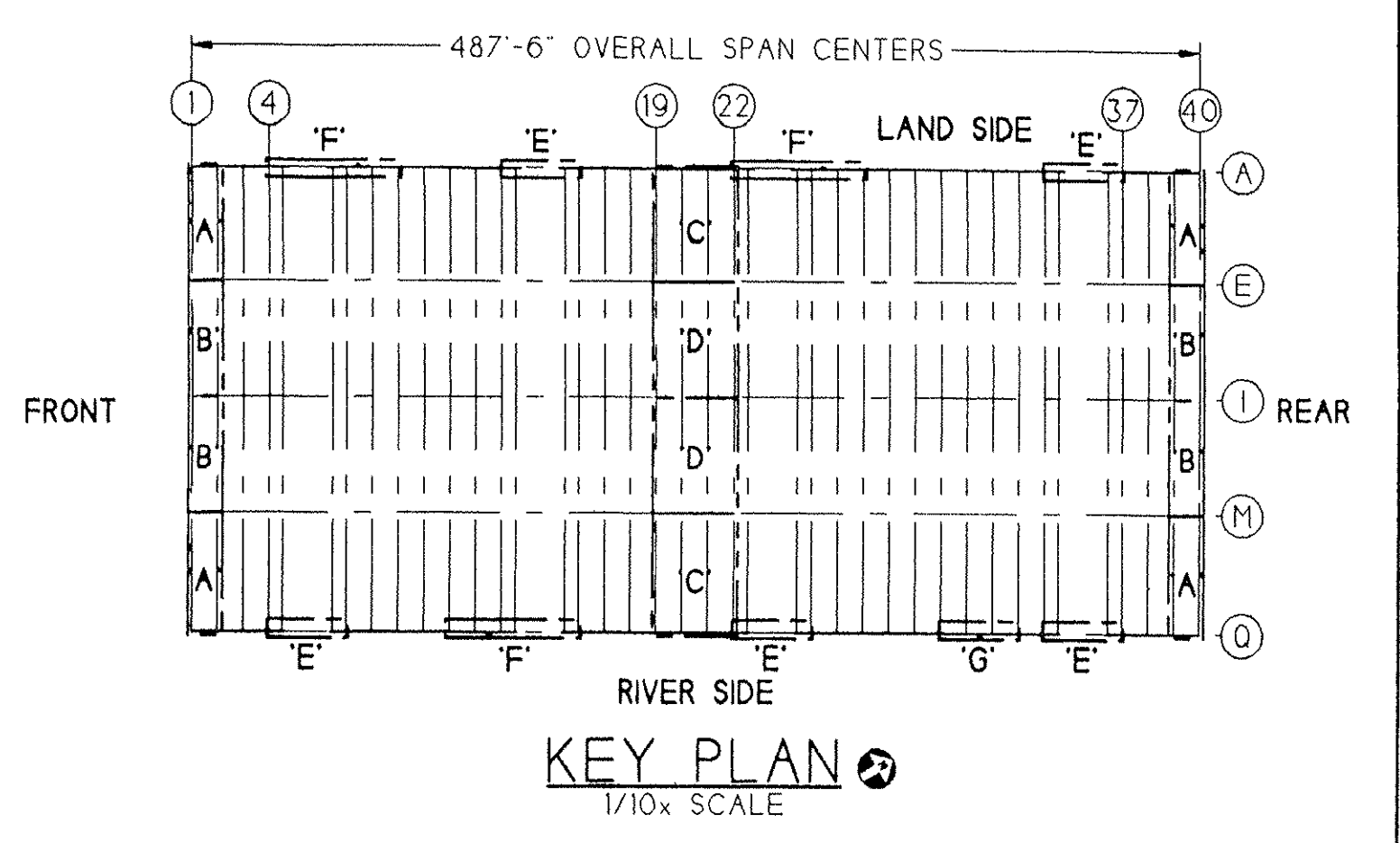
QUADRANT 'C' TYPICAL NODES



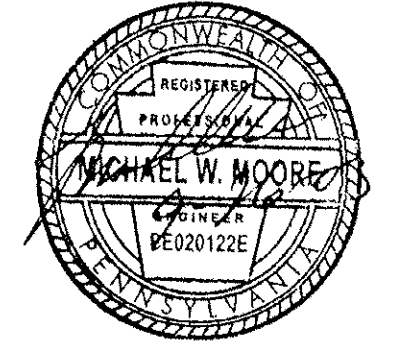
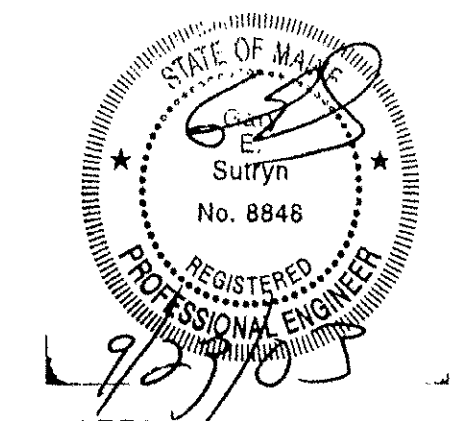
QUADRANT 'B' TYPICAL NODES



QUADRANT 'D' TYPICAL NODES

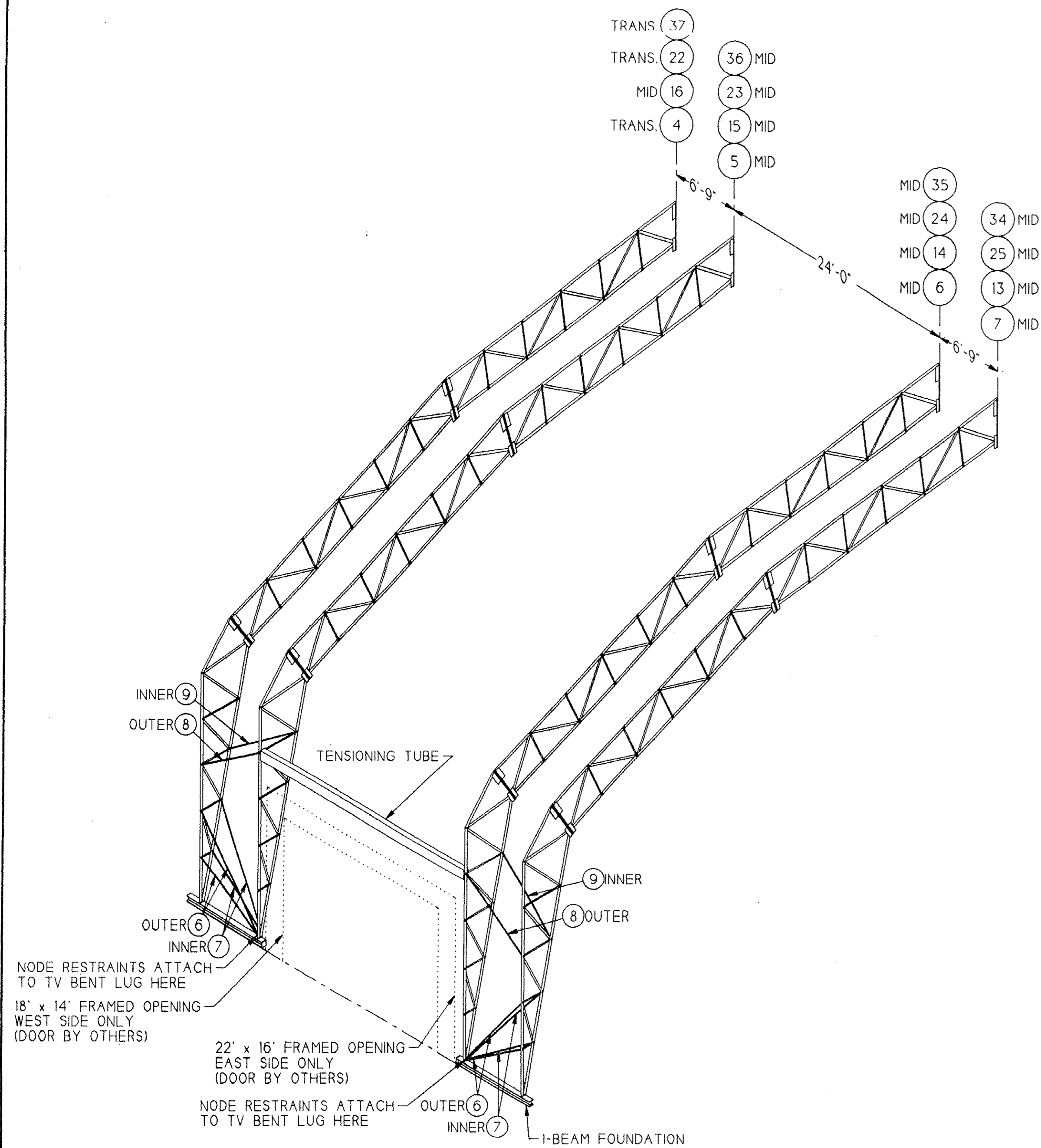


ITEM	QTY.	DESCRIPTION	DRAWING
1	72	LLO, LRO & URO	37960
2	8	LOWER LEG INNER	37960
3	8	UPPER LEG OUTER	37960
4	8	UPPER LEG INNER	37960
5	64	LOWER & UPPER ROOF INNER	37960

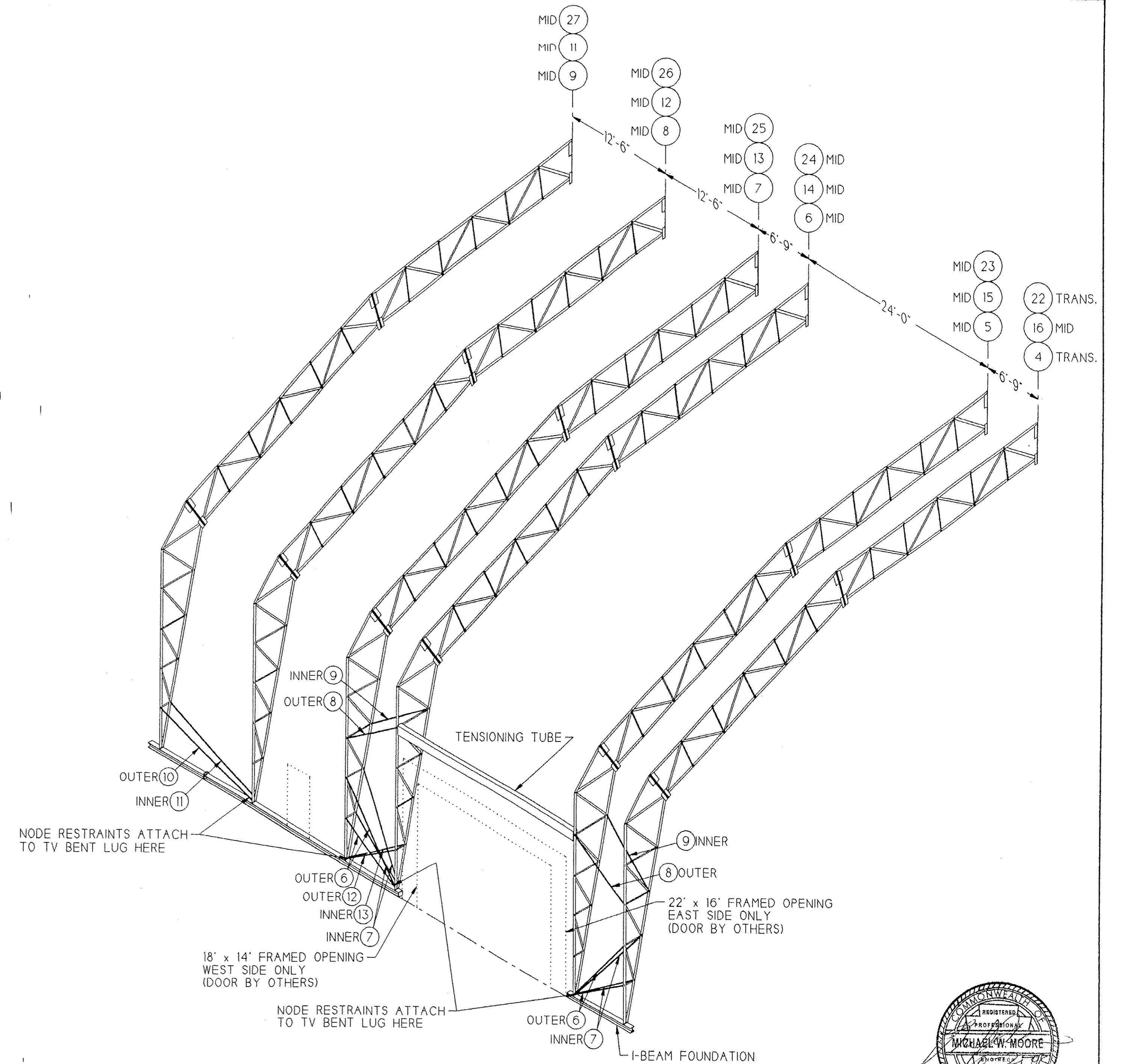


NOTES:
1) SEE DRAWING 37957 FOR QUADRANT'S 'E' - 'G'.

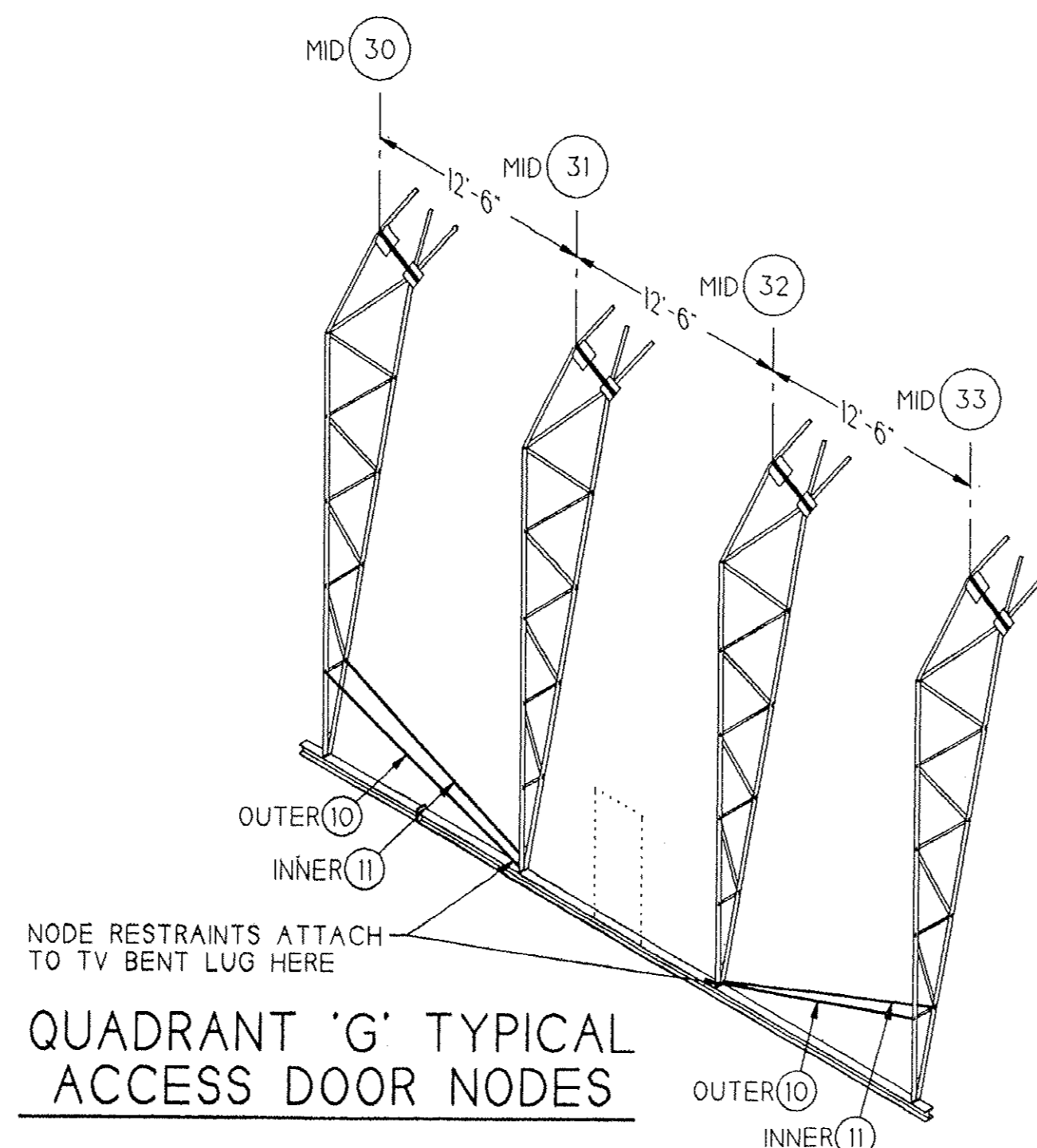
REV.	DESCRIPTION	DRAWN	APP.	DATE
1	We Cover The World			
	RUBB			
	BUILDING SYSTEMS			
	33.5m BVE BILINK / 7m LEG			
	NODE RESTRAINT ISOMETRIC			
	SHEET 1 OF 2			
DRAWN	KV 8-22-03	SCALE	1 : 100	
APP.	9/18 8-15-03	JOB #	03088	
DATE		JOB NAME	JMG	
RUBB, INC. SANFORD MAINE 04073				DRAWING NO.
TEL: 207-324-2877 FAX 207-324-2347				37953



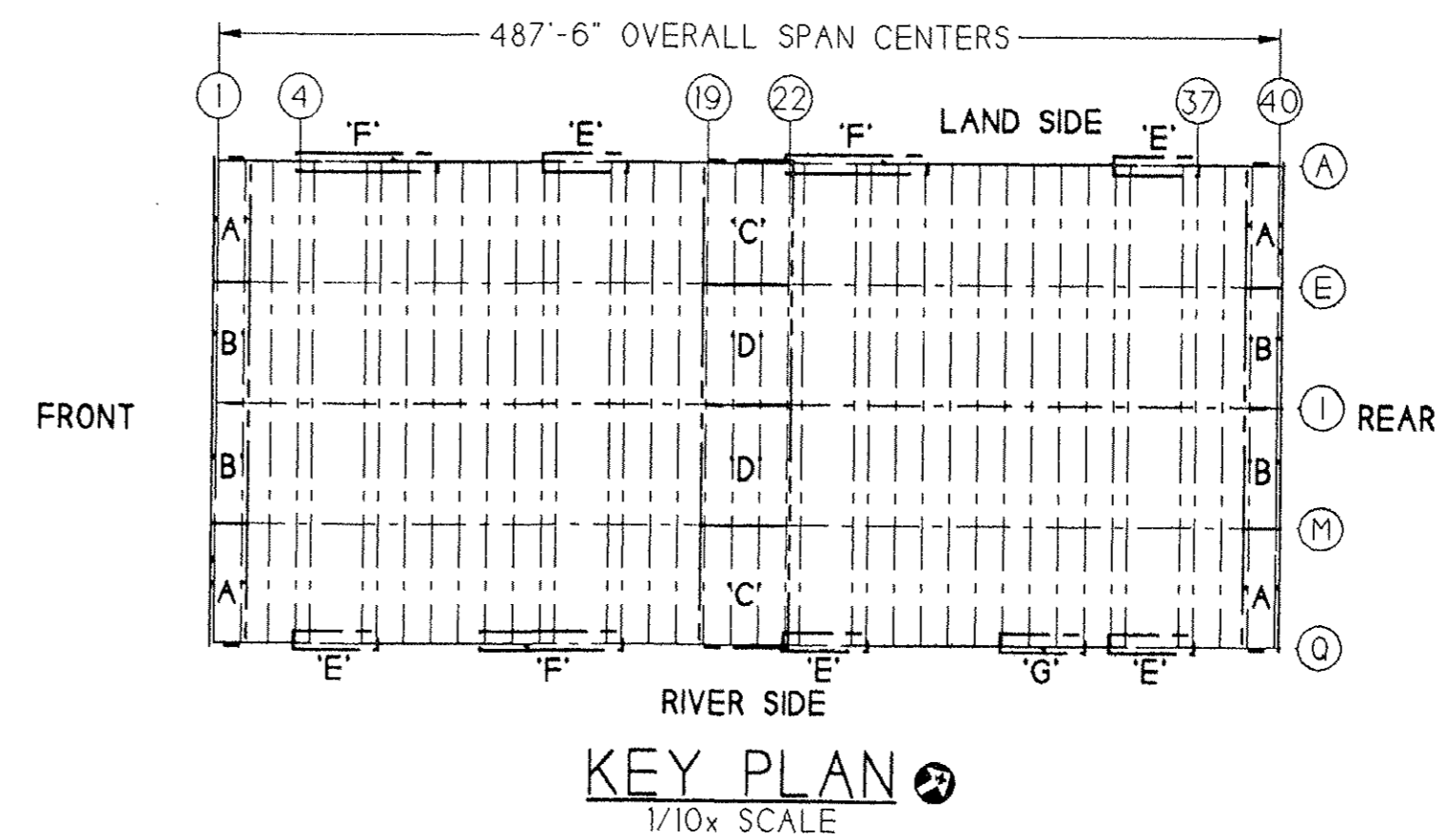
QUADRANT 'E' TYPICAL DOOR OPENING NODES



QUADRANT 'F' TYPICAL DOOR OPENING WITH ACCESS DOOR NODES



QUADRANT 'G' TYPICAL ACCESS DOOR NODES



KEY PLAN
1/10x SCALE

ITEM	QTY.	DESCRIPTION	DRAWING
6	16	LOWER LEG OUTER (6'-9" BAY)	37960
7	16	LOWER LEG INNER (6'-9" BAY)	37960
8	16	UPPER LEG OUTER (6'-9" BAY)	37977
9	16	UPPER LEG INNER (6'-9" BAY)	37977
10	5	LL.O. (12'-6" BAY ADJACENT TO ACCESS DOOR)	37977
11	5	LL.I. (12'-6" BAY ADJACENT TO ACCESS DOOR)	37977
12	3	LL.O. (6'-9" BAY ADJACENT TO ACCESS DOOR)	37977
13	3	LL.I. (6'-9" BAY ADJACENT TO ACCESS DOOR)	37977

NOTES:
1) SEE DRAWING 37953 FOR QUADRANT'S 'A' - 'D'.

REV.	DESCRIPTION	DRAWN	APP.	DATE

We Cover The World
RUBB
BUILDING SYSTEMS

TITLE: 33.5m BVE BILINK / 7m LEG NODE RESTRAINT ISOMETRIC SHEET 2 OF 2

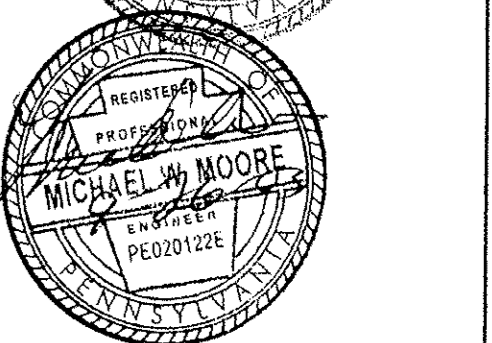
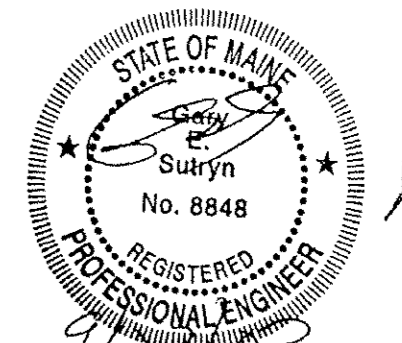
DRAWN: KV 8-22-03 SCALE: 1 : 100

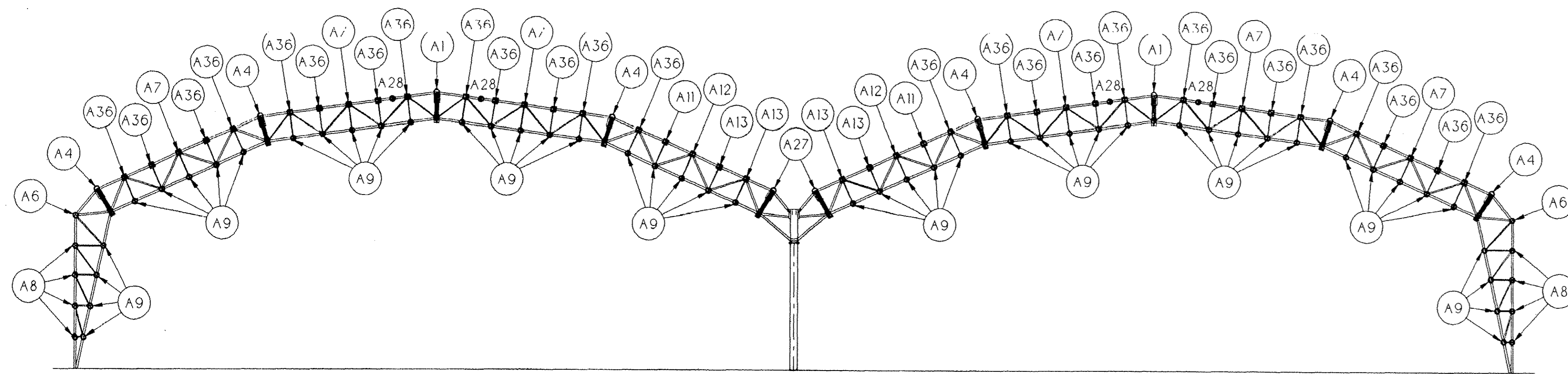
APP: [Signature] JOB #: 03088

DATE: 8/23/03 JOB NAME: JMG

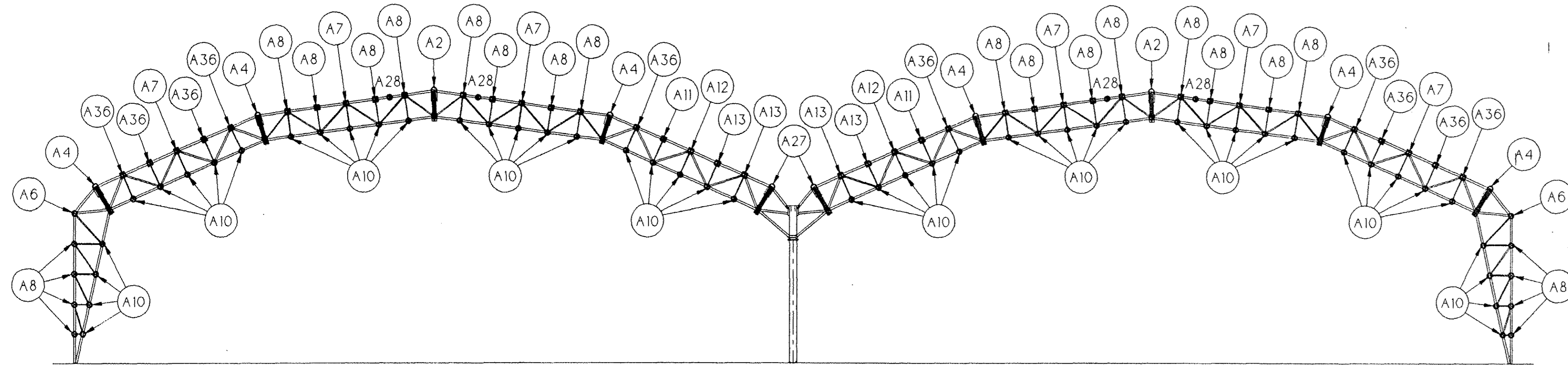
RUBB, INC. SANFORD MAINE 04073
TEL: 207-324-2877 FAX 207-324-2347

DRAWING NO. 37957

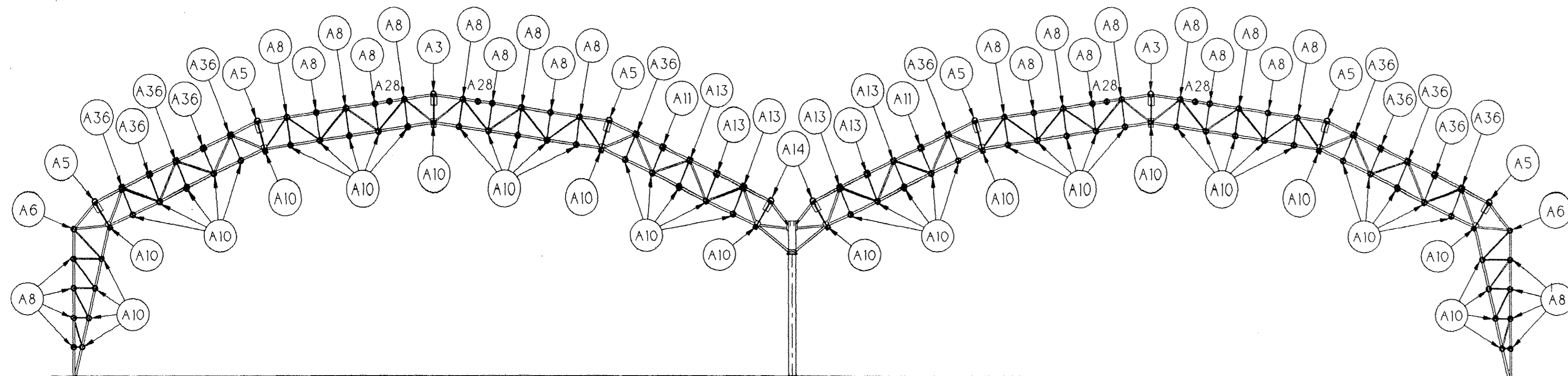




BAY A
VIEW FACING NORTH
12'-6" BAY
2 REQUIRED



BAY B
VIEW FACING NORTH
12'-6" BAY
5 REQUIRED

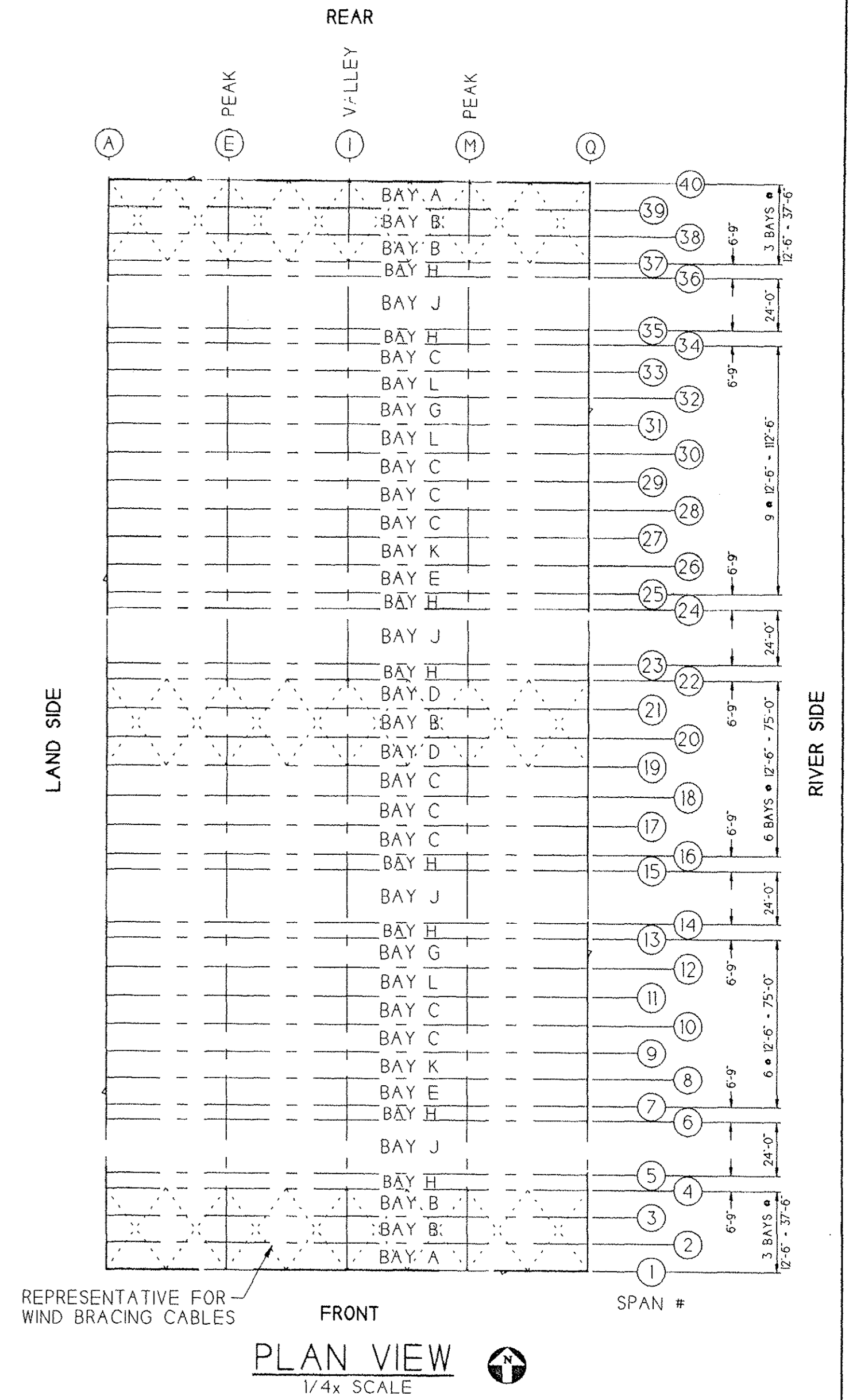


BAY C
VIEW FACING NORTH
12'-6" BAY
9 REQUIRED

ASSEMBLY	QTY.	DESCRIPTION	DRAWING
A1	2	GABLE PEAK AXIAL FRAME	37910
A2	0	PEAK AXIAL FRAME	37910
A3	0	5 9/16" PEAK AXIAL TUBE	37910
A4	6	NON-PEAK AXIAL FRAME	37911
A5	0	4 1/2" DIA. NON-PEAK AXIAL TUBE	37911
A6	2	LEG BEND AXIAL D-FRAME	37911
A7	6	4" x 4" NON-APEX COMPRESSION TUBE	37911
A8	8	3 1/2" DIA. ROOF LONGITUDINAL	37911
A9	4	2 3/8" DIA. INNER NODE RESTRAINT	37911
A10	0	1.31" DIA. UNDERGIRT TUBE	37911
A11	2	3 1/2" SQ. VALLEY ROOF LONGITUDINAL	37913
A12	2	4" SQ. VALLEY NON-APEX COMP. TUBE	37913
A13	4	3 1/2" SQ. VALLEY ROOF LONGITUDINAL	37913
A14	0	4 1/2" DIA. VALLEY NP. AXIAL TUBE	37913
A15	0	6" x 3" LEG & ROOF LONGITUDINAL TUBE	37914
A16	0	7" x 4" VALLEY ROOF LONGITUDINAL TUBE	37914
A17	0	7" x 4" VALLEY ROOF LONGITUDINAL TUBE	37914
A18	0	3" DIA. UNDERGIRT	37914
A19	0	4" DIA. LEG BEND AXIAL TUBE	37912
A20	0	4" DIA. NON-PEAK AXIAL TUBE	37912
A21	0	4" DIA. VALLEY NON-PEAK AXIAL TUBE	37912
A22	0	1.9" DIA. ROOF LONGITUDINAL	37912
A23	0	3" x 3" VALLEY ROOF LONGITUDINAL	37912
A24	0	3" x 3" VALLEY ROOF LONGITUDINAL	37912
A25	0	1.31" DIA. UNDERGIRT TUBE	37912
A26	0	5 9/16" DIA. PEAK AXIAL TUBE	37912
A27	2	VALLEY NON-PEAK AXIAL FRAME	38026
A28	4	PVC UNROLLING TUBE	37911
A29	0	PEAK AXIAL TUBE 24 BAYS	37914
A30	0	NON-PEAK AXIAL TUBE 24 BAYS	37914
A31	0	LEG BEND AXIAL TUBE 24 BAYS	37914
A32	0	PVC UNROLLING TUBE 24 BAYS	37914
A33	0	VALLEY NON-PEAK AXIAL TUBE 24 BAYS	38036
A34	0	1.9" DIA. INNER NODE RESTRAINT TUBE	37912
A35	-	-	-
A36	26	3 1/2" SQ. ROOF LONGITUDINAL TUBE	37911
A37	0	2 3/8" DIA. ROOF LONGITUDINAL	37912
A38	0	7" x 4" N.V. ROOF LONGITUDINAL	37914
H3	0	TS 12" x 6" OVERHEAD DOOR HEADER	37985
H4	0	TS 12" x 6" OVERHEAD DOOR HEADER	37986

ASSEMBLY	QTY.	DESCRIPTION	DRAWING
A1	0	GABLE PEAK AXIAL FRAME	37910
A2	2	PEAK AXIAL FRAME	37910
A3	0	5 9/16" PEAK AXIAL TUBE	37910
A4	6	NON-PEAK AXIAL FRAME	37911
A5	0	4 1/2" DIA. NON-PEAK AXIAL TUBE	37911
A6	2	LEG BEND AXIAL D-FRAME	37911
A7	6	4" x 4" NON-APEX COMPRESSION TUBE	37911
A8	24	3 1/2" DIA. ROOF LONGITUDINAL	37911
A9	0	2 3/8" DIA. INNER NODE RESTRAINT	37911
A10	48	1.31" DIA. UNDERGIRT TUBE	37911
A11	2	3 1/2" SQ. VALLEY ROOF LONGITUDINAL	37913
A12	2	4" SQ. VALLEY NON-APEX COMP. TUBE	37913
A13	4	3 1/2" SQ. VALLEY ROOF LONGITUDINAL	37913
A14	0	4 1/2" DIA. VALLEY NP. AXIAL TUBE	37913
A15	0	6" x 3" LEG & ROOF LONGITUDINAL TUBE	37914
A16	0	7" x 4" VALLEY ROOF LONGITUDINAL TUBE	37914
A17	0	7" x 4" VALLEY ROOF LONGITUDINAL TUBE	37914
A18	0	3" DIA. UNDERGIRT	37914
A19	0	4" DIA. LEG BEND AXIAL TUBE	37912
A20	0	4" DIA. NON-PEAK AXIAL TUBE	37912
A21	0	4" DIA. VALLEY NON-PEAK AXIAL TUBE	37912
A22	0	1.9" DIA. ROOF LONGITUDINAL	37912
A23	0	3" x 3" VALLEY ROOF LONGITUDINAL	37912
A24	0	3" x 3" VALLEY ROOF LONGITUDINAL	37912
A25	0	1.31" DIA. UNDERGIRT TUBE	37912
A26	0	5 9/16" DIA. PEAK AXIAL TUBE	37912
A27	2	VALLEY NON-PEAK AXIAL FRAME	38026
A28	4	PVC UNROLLING TUBE	37911
A29	0	PEAK AXIAL TUBE 24 BAYS	37914
A30	0	NON-PEAK AXIAL TUBE 24 BAYS	37914
A31	0	LEG BEND AXIAL TUBE 24 BAYS	37914
A32	0	PVC UNROLLING TUBE 24 BAYS	37914
A33	0	VALLEY NON-PEAK AXIAL TUBE 24 BAYS	38036
A34	0	1.9" DIA. INNER NODE RESTRAINT TUBE	37912
A35	-	-	-
A36	10	3 1/2" SQ. ROOF LONGITUDINAL TUBE	37911
A37	0	2 3/8" DIA. ROOF LONGITUDINAL	37912
A38	0	7" x 4" N.V. ROOF LONGITUDINAL	37914
H3	0	TS 12" x 6" OVERHEAD DOOR HEADER	37985
H4	0	TS 12" x 6" OVERHEAD DOOR HEADER	37986

ASSEMBLY	QTY.	DESCRIPTION	DRAWING
A1	0	GABLE PEAK AXIAL FRAME	37910
A2	0	PEAK AXIAL FRAME	37910
A3	2	5 9/16" PEAK AXIAL TUBE	37910
A4	0	NON-PEAK AXIAL FRAME	37911
A5	6	4 1/2" DIA. NON-PEAK AXIAL TUBE	37911
A6	2	LEG BEND AXIAL D-FRAME	37911
A7	0	4" x 4" NON-APEX COMPRESSION TUBE	37911
A8	28	3 1/2" DIA. ROOF LONGITUDINAL	37911
A9	0	2 3/8" DIA. INNER NODE RESTRAINT	37911
A10	58	1.31" DIA. UNDERGIRT TUBE	37911
A11	2	3 1/2" SQ. VALLEY ROOF LONGITUDINAL	37913
A12	0	4" SQ. VALLEY NON-APEX COMP. TUBE	37913
A13	6	3 1/2" SQ. VALLEY ROOF LONGITUDINAL	37913
A14	2	4 1/2" DIA. VALLEY NP. AXIAL TUBE	37913
A15	0	6" x 3" LEG & ROOF LONGITUDINAL TUBE	37914
A16	0	7" x 4" VALLEY ROOF LONGITUDINAL TUBE	37914
A17	0	7" x 4" VALLEY ROOF LONGITUDINAL TUBE	37914
A18	0	3" DIA. UNDERGIRT	37914
A19	0	4" DIA. LEG BEND AXIAL TUBE	37912
A20	0	4" DIA. NON-PEAK AXIAL TUBE	37912
A21	0	4" DIA. VALLEY NON-PEAK AXIAL TUBE	37912
A22	0	1.9" DIA. ROOF LONGITUDINAL	37912
A23	0	3" x 3" VALLEY ROOF LONGITUDINAL	37912
A24	0	3" x 3" VALLEY ROOF LONGITUDINAL	37912
A25	0	1.31" DIA. UNDERGIRT TUBE	37912
A26	0	5 9/16" DIA. PEAK AXIAL TUBE	37912
A27	0	VALLEY NON-PEAK AXIAL FRAME	38026
A28	4	PVC UNROLLING TUBE	37911
A29	0	PEAK AXIAL TUBE 24 BAYS	37914
A30	0	NON-PEAK AXIAL TUBE 24 BAYS	37914
A31	0	LEG BEND AXIAL TUBE 24 BAYS	37914
A32	0	PVC UNROLLING TUBE 24 BAYS	37914
A33	0	VALLEY NON-PEAK AXIAL TUBE 24 BAYS	38036
A34	0	1.9" DIA. INNER NODE RESTRAINT TUBE	37912
A35	-	-	-
A36	12	3 1/2" SQ. ROOF LONGITUDINAL TUBE	37911
A37	0	2 3/8" DIA. ROOF LONGITUDINAL	37912
A38	0	7" x 4" N.V. ROOF LONGITUDINAL	37914
H3	0	TS 12" x 6" OVERHEAD DOOR HEADER	37985
H4	0	TS 12" x 6" OVERHEAD DOOR HEADER	37986

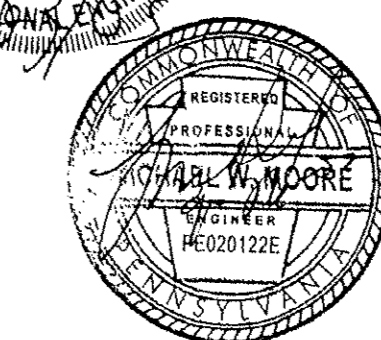
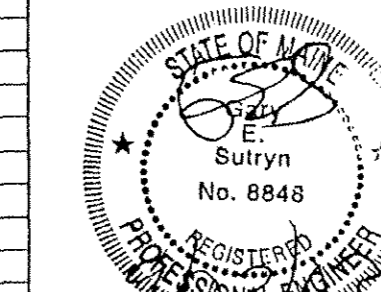


PLAN VIEW
1/4" SCALE

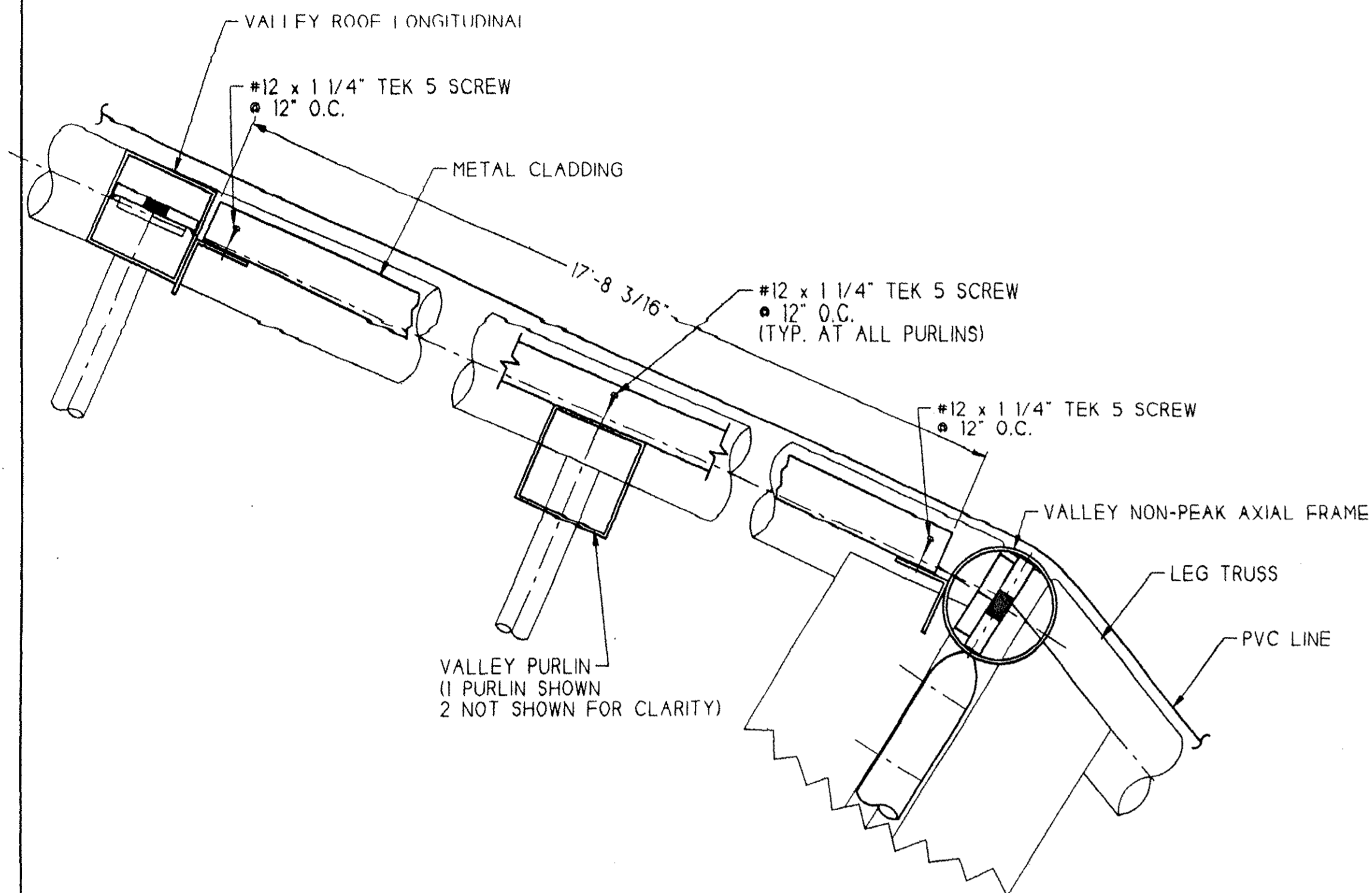
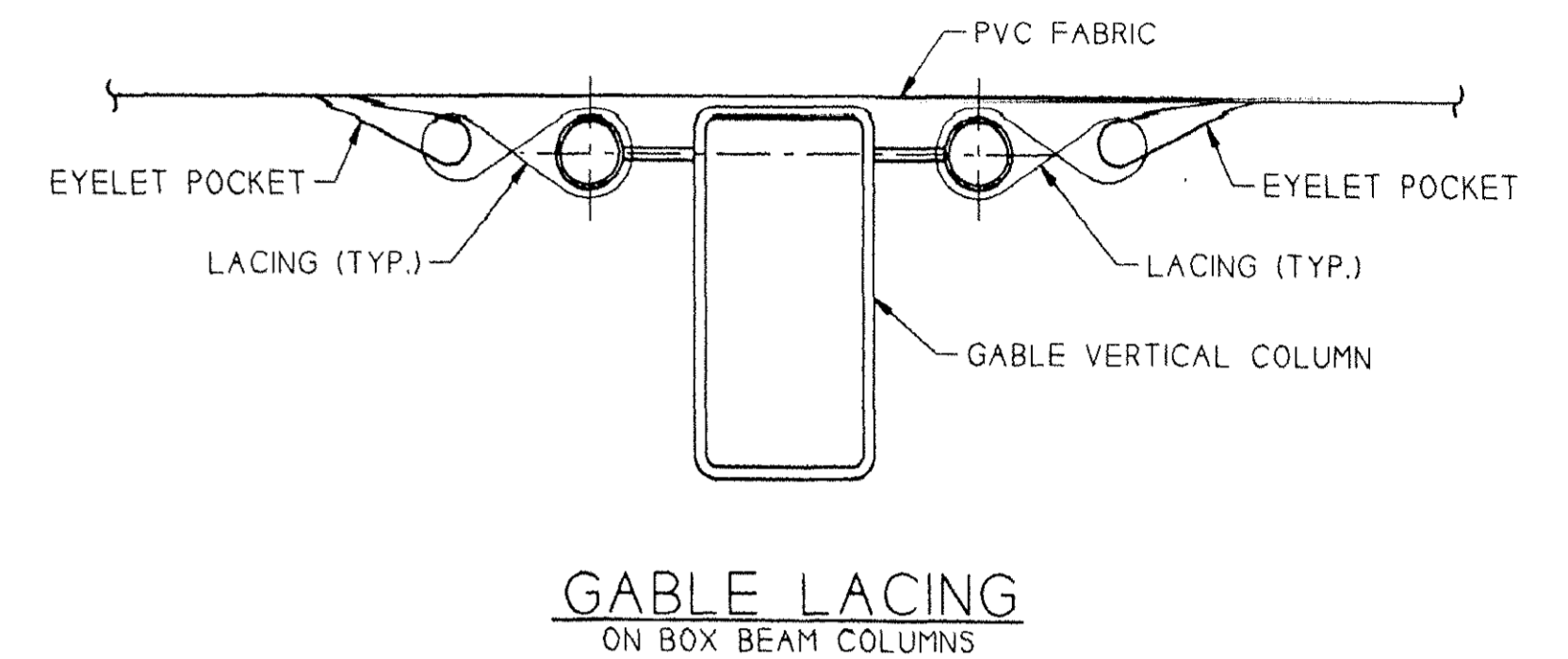
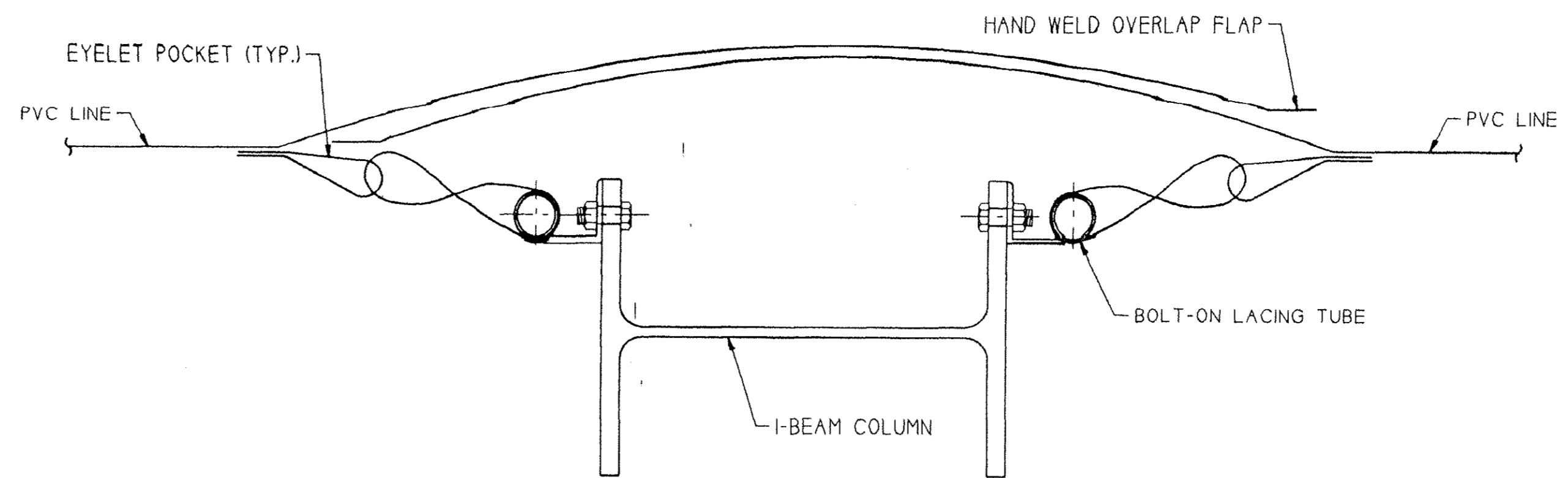
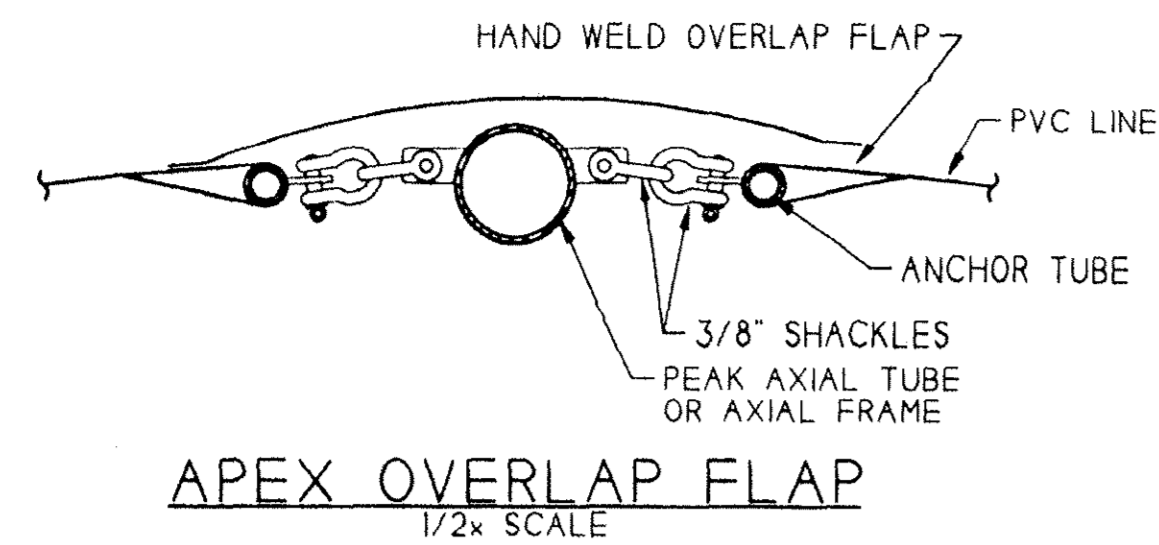
BOLT SCHEDULE

ASSEMBLY	DESCRIPTION	BOLT	SPEC.	BOLT TIGHTNESS
A1, A2, A3, A26 & A29	PEAK AXIAL FRAME / TOP & PEAK AXIAL TUBE	5/8" x 1 3/4"	A325	SNUG TIGHT
A1 & A2	PEAK AXIAL FRAME / BOTTOM	7/8" x 2 3/4"	A325	SNUG TIGHT
A4, A5, A14, A20	NON-PEAK AXIAL FRAMES & TUBES	7/8" x 2 3/4"	A325	SNUG TIGHT
A6, A19 & A31	LEG BEND AXIAL D FRAME & TUBE	1" x 2 1/2"	A325	SNUG TIGHT
A7 & A12	NON-APEX COMPRESSION TUBE	7/8" x 2 3/4"	A325	SNUG TIGHT
A8, A11, A13, A15, A16	ROOF LONGITUDINAL TUBE	5/8" x 1 3/4"	A325	SNUG TIGHT
A17, A22, A23, A24, A36, A37 & A38	UNDERGIRTS / INNER NODE RESTRAINT TUBE	1/2" x 1 1/2"	GRADE 5	SNUG TIGHT
A9, A10, A18, A25 & A34	PVC UNROLLING TUBES	5/8" x 1 3/4"	A325	SNUG TIGHT
A28 & A32	OVERHEAD DOOR HEADER	7/8" x 2 3/4"	A325	SNUG TIGHT
H3 & H4				

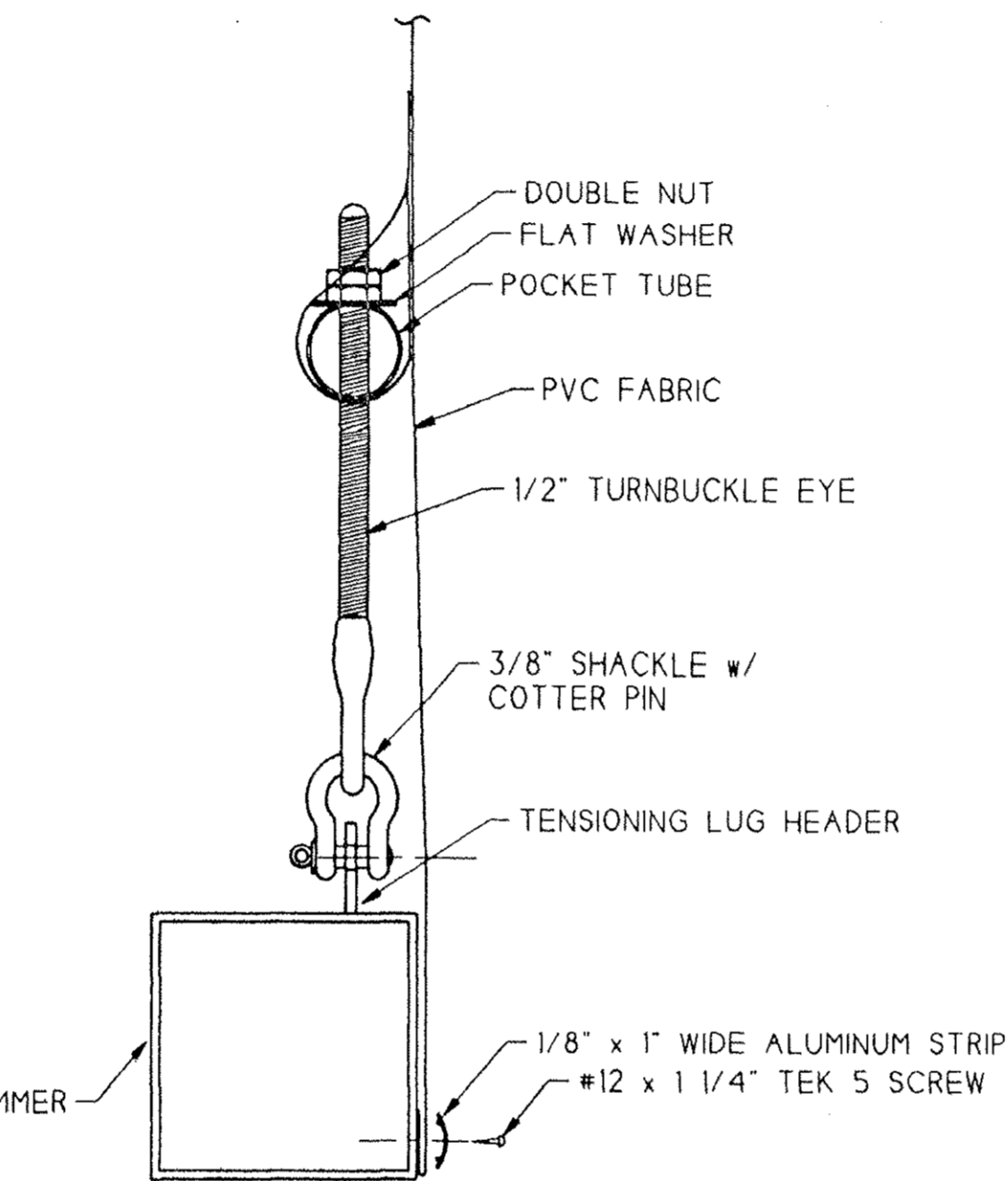
GENERAL NOTES:
1) SEE STEEL LAYOUT DRAWING 37886 FOR CENTRAL GIRDS AND CENTRAL COLUMNS.
2) SEE DRAWINGS 37987, 37988 AND 37989 FOR BAYS NOT SHOWN HERE.
3) BOLT TIGHTNESS TO BE SNUG TIGHT AS DEFINED IN THE AISC STEEL MANUAL (9th EDITION).



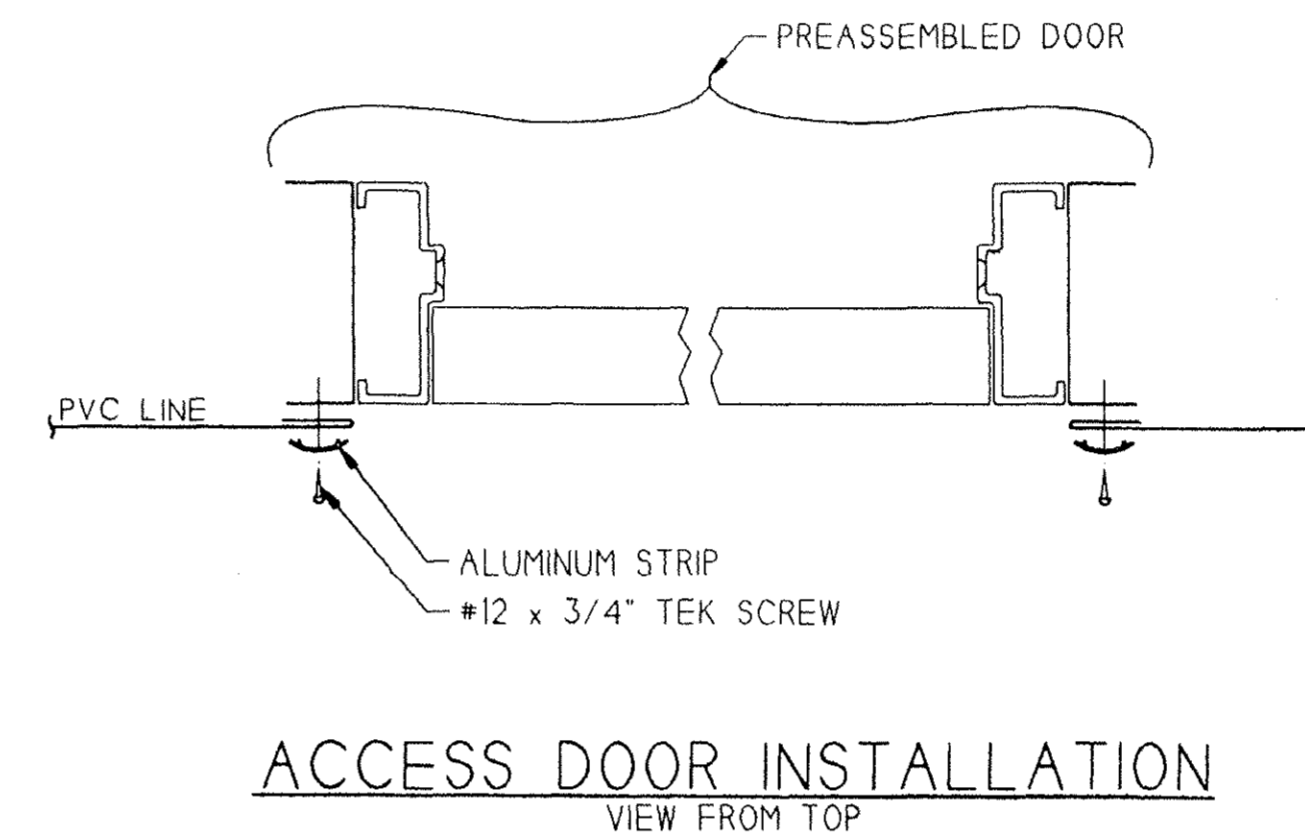
REV.	DESCRIPTION	DRAWN	APP.	DATE
	We Cover The World			
	RUBB			
	BUILDING SYSTEMS			
DRAWN	MRB 8/26/03	SCALE	1:150	This drawing is the property of Rubb, Inc. and may not be reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.
DATE	8/29/03	JOB #	03088	
		JOB NAME	JMG	
		RUBB, INC. SANFORD MAINE 04073		
		TEL: 207-324-2877 FAX 207-324-2347		
			DRAWING NO.	37976



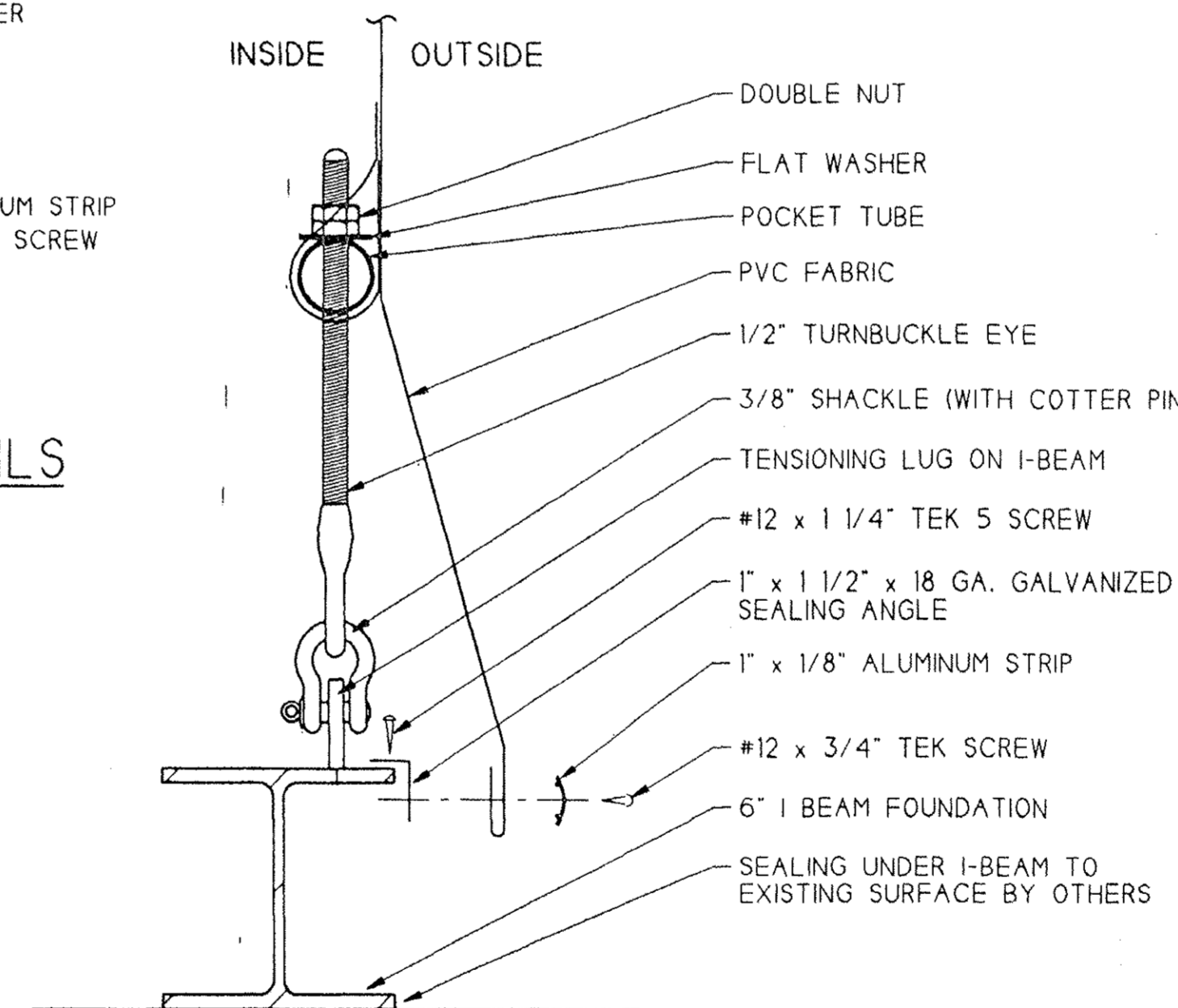
DETAIL 'A'
12'-6\"/>



SIDE & GABLE OPENING SEALING DETAILS
ALONG TOP OF OPENING

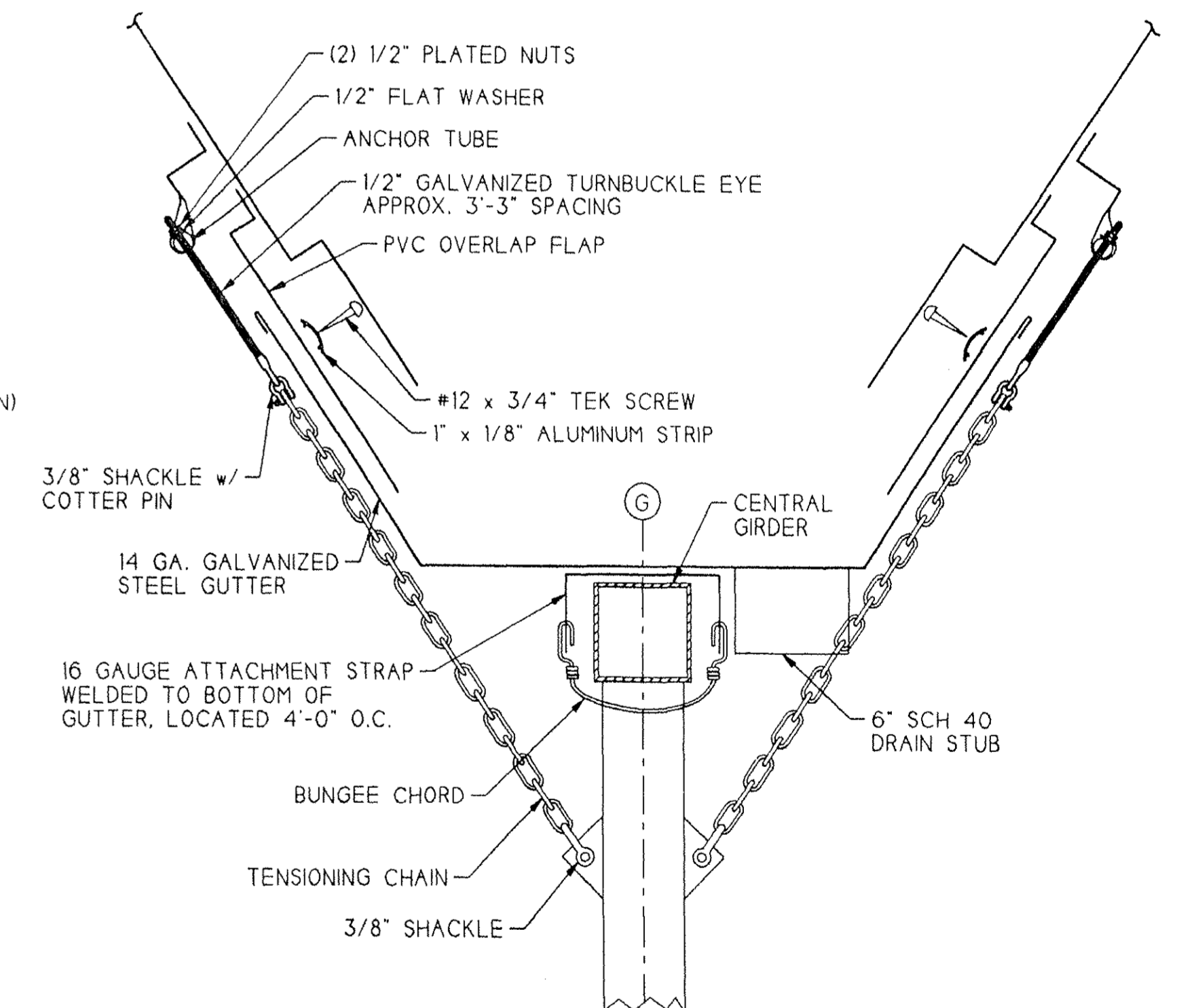


ACCESS DOOR INSTALLATION
VIEW FROM TOP

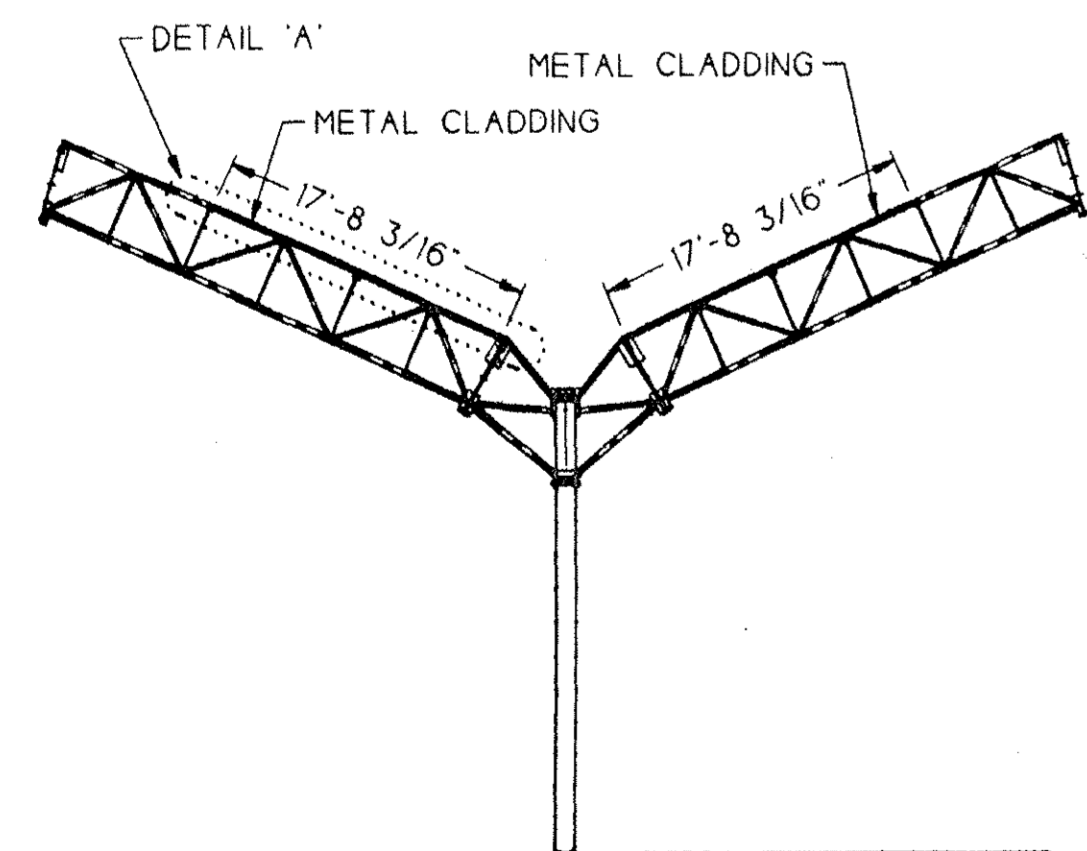


BASE SEALING

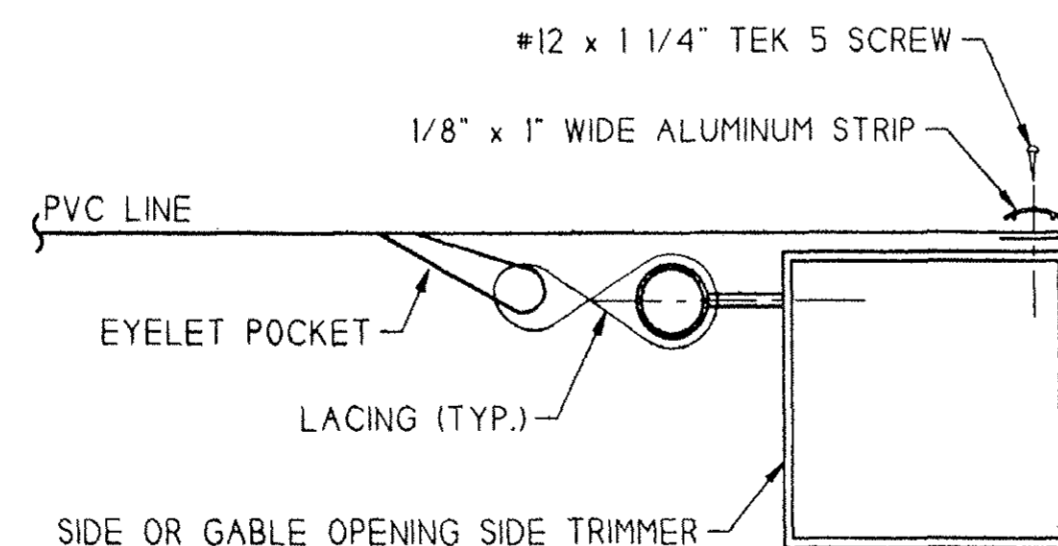
GROUND ANCHORS NOT SHOWN FOR CLARITY - SEE GROUND ANCHOR LAYOUT FOR DETAILS.



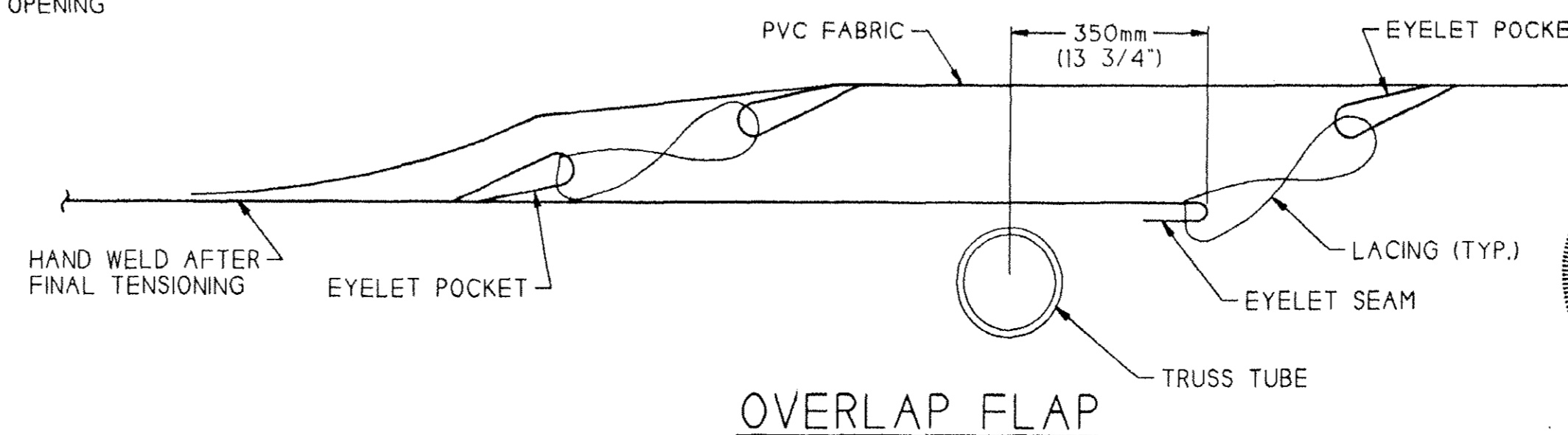
CENTRAL GUTTER TENSIONING AND SEALING DETAILS
1/2x SCALE



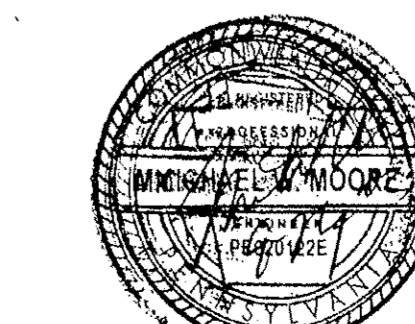
VALLEY METAL SIDING
12'-6\"/>



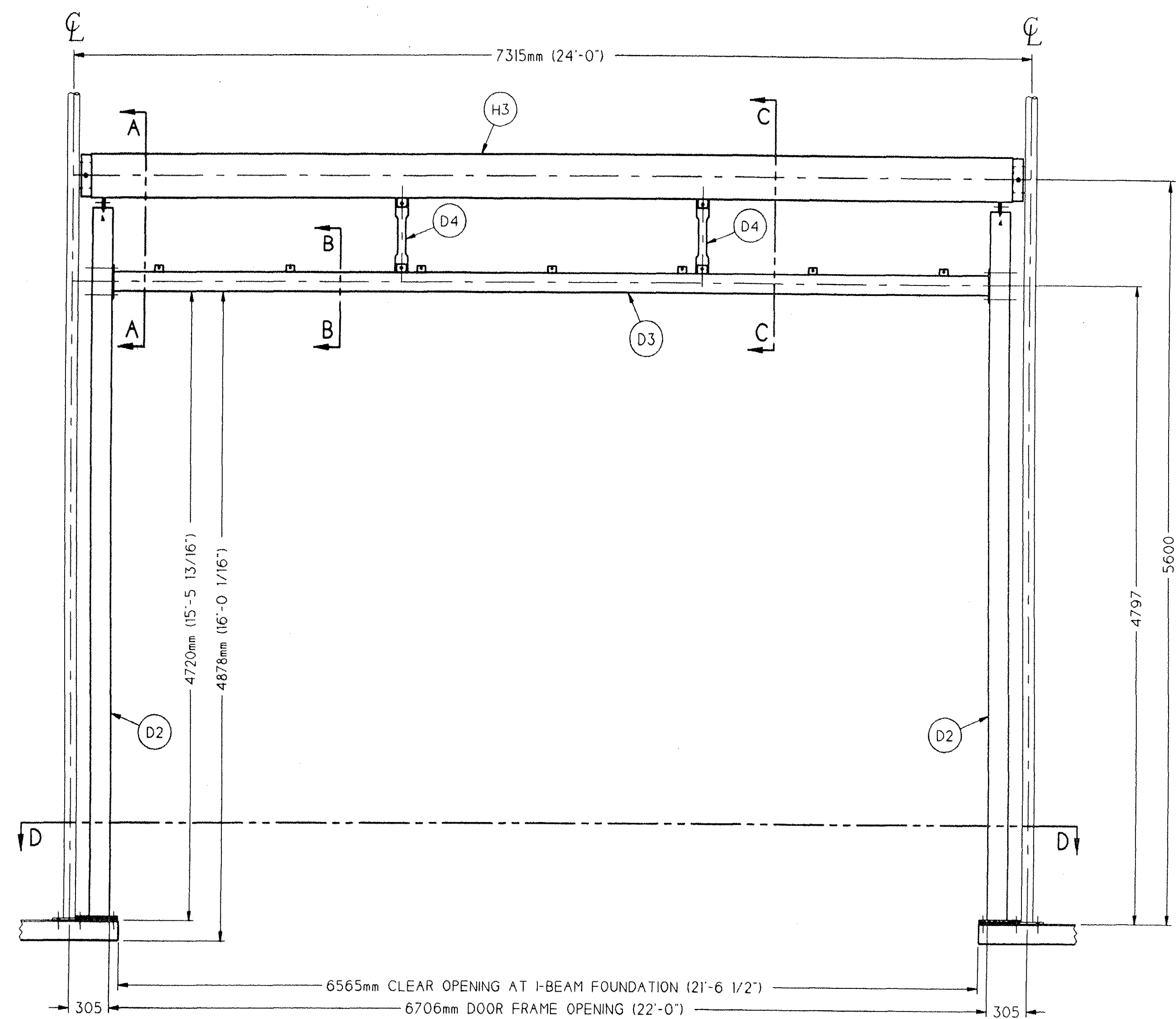
SIDE & GABLE OPENING SEALING DETAILS
ALONG SIDE OF OPENING



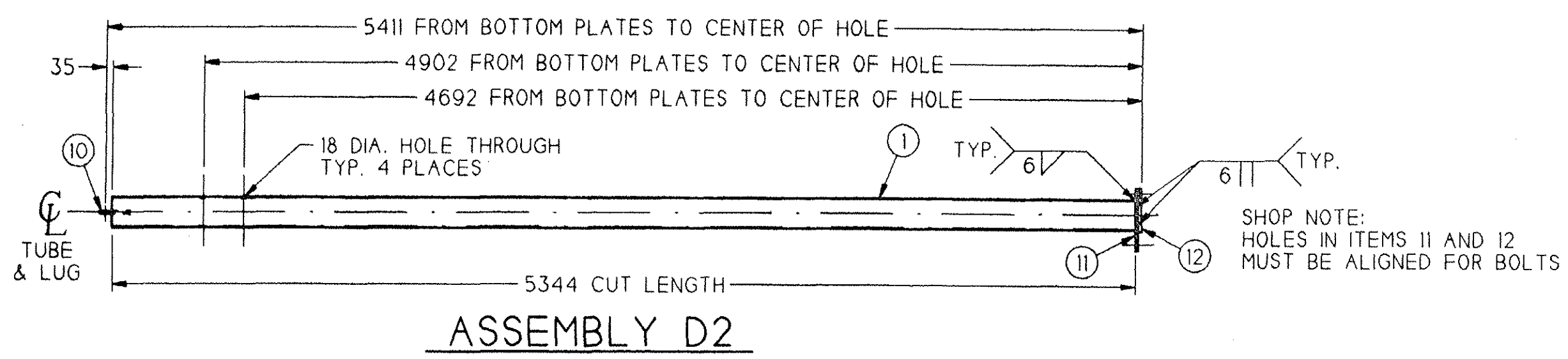
OVERLAP FLAP



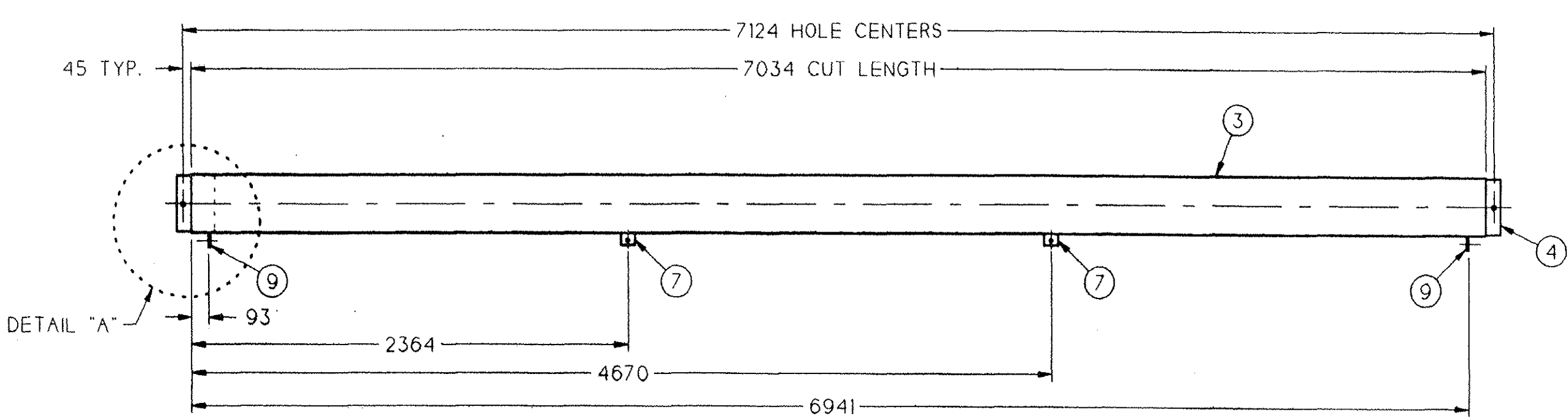
REV.	DESCRIPTION	DRAWN	APP.	DATE	
1	33.5m BVE BILINK / 7m LEG TENSIONING AND SEALING DETAILS				
REVUBB BUILDING SYSTEMS We Cover The World					
DRAWN	MJG 8-27-03	SCALE	1 : 4	This drawing is the property of Rubb, Inc. and may not be reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.	
APP.	9/29/03	JOB #	03088		
DATE		JOB NAME	JMG		
RUBB, INC. SANFORD MAINE 04073 TEL: 207-324-2877 FAX 207-324-2347				DRAWING NO.	37984



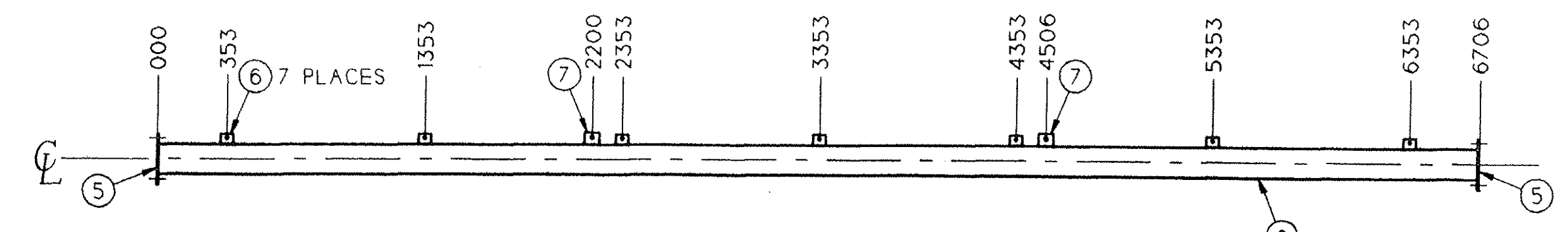
VIEW ON INSIDE



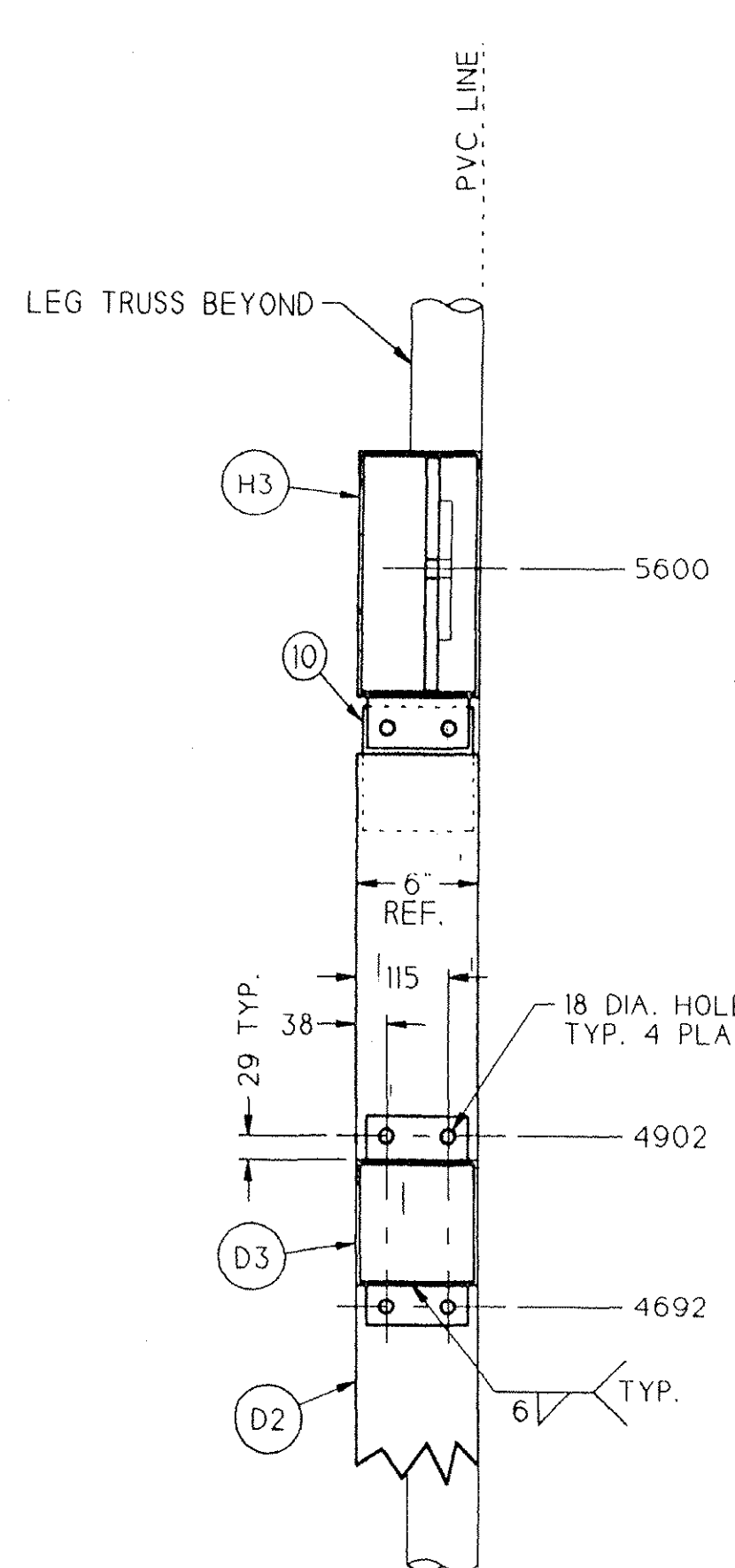
ASSEMBLY D2



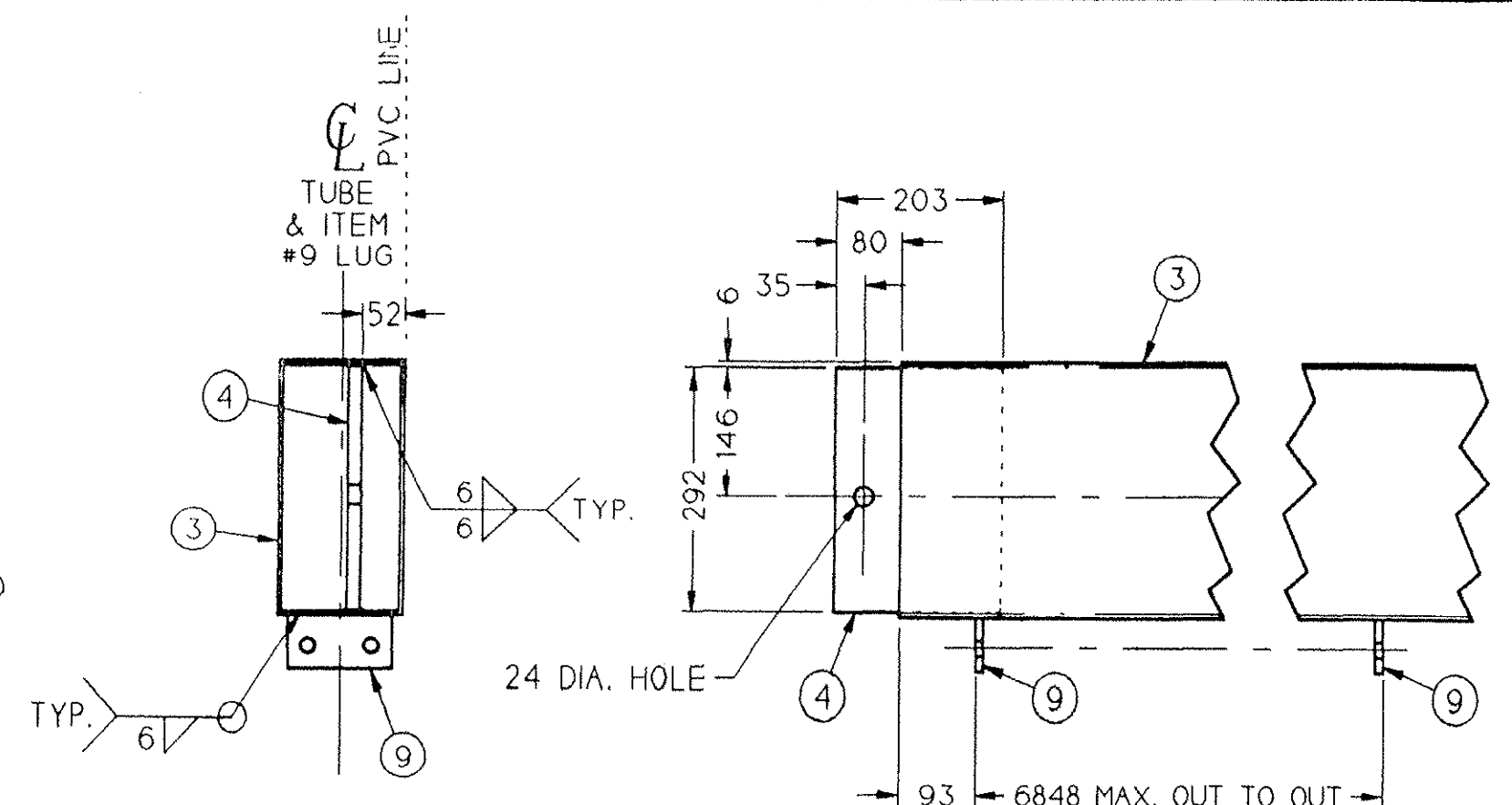
ASSEMBLY H3



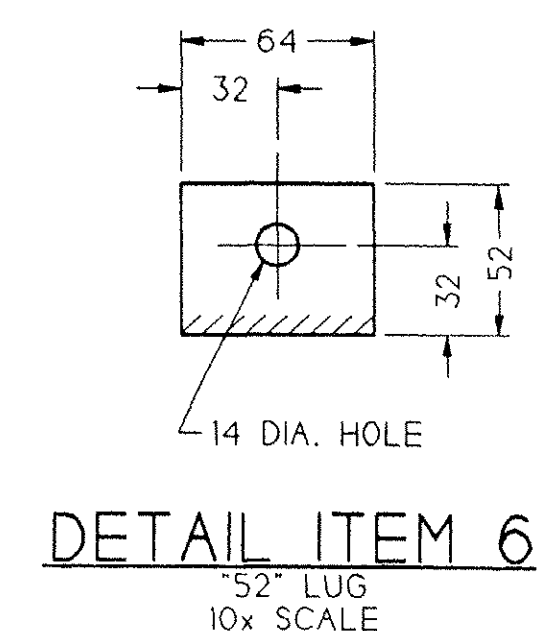
ASSEMBLY D3



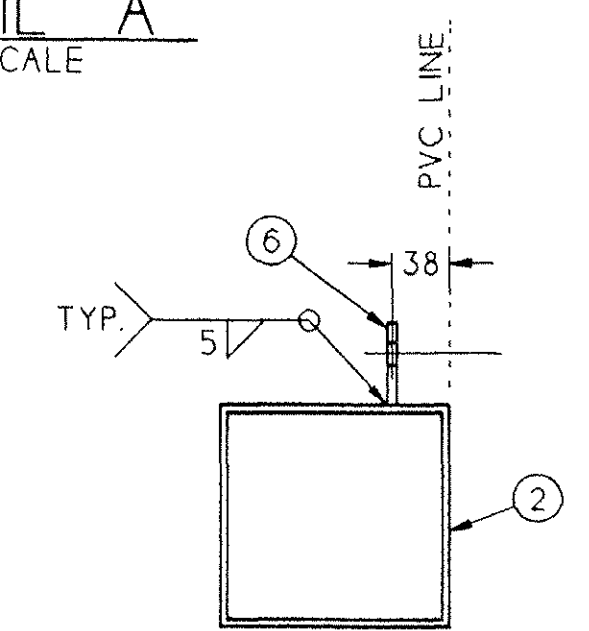
SECTION "A-A"
3x SCALE



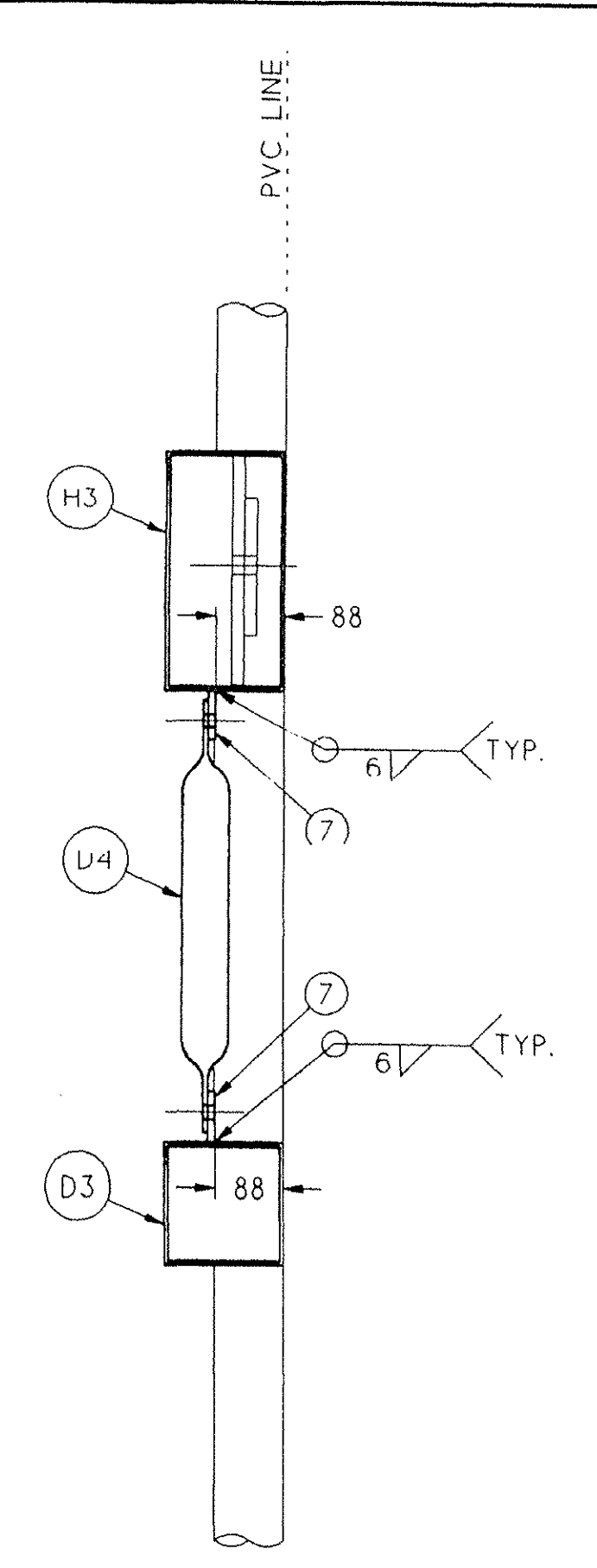
DETAIL "A"
3x SCALE



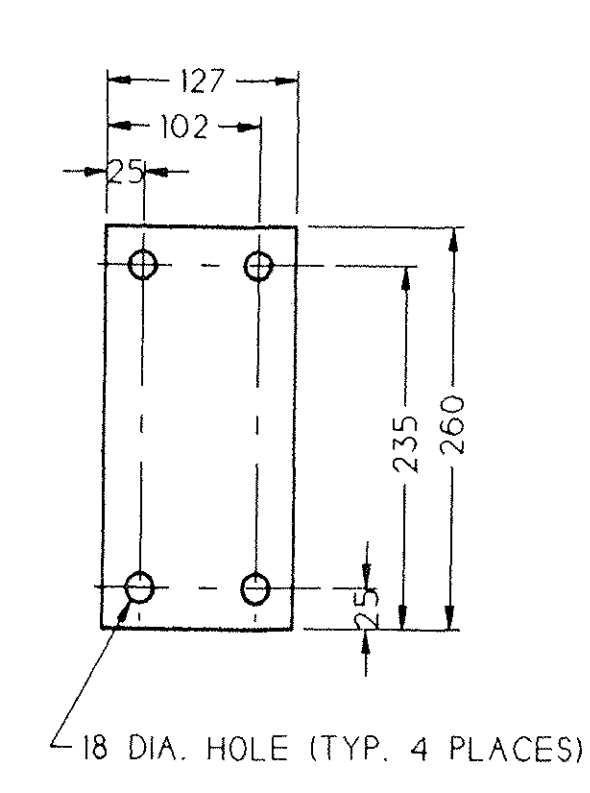
DETAIL ITEM 6
52" LUG
10x SCALE



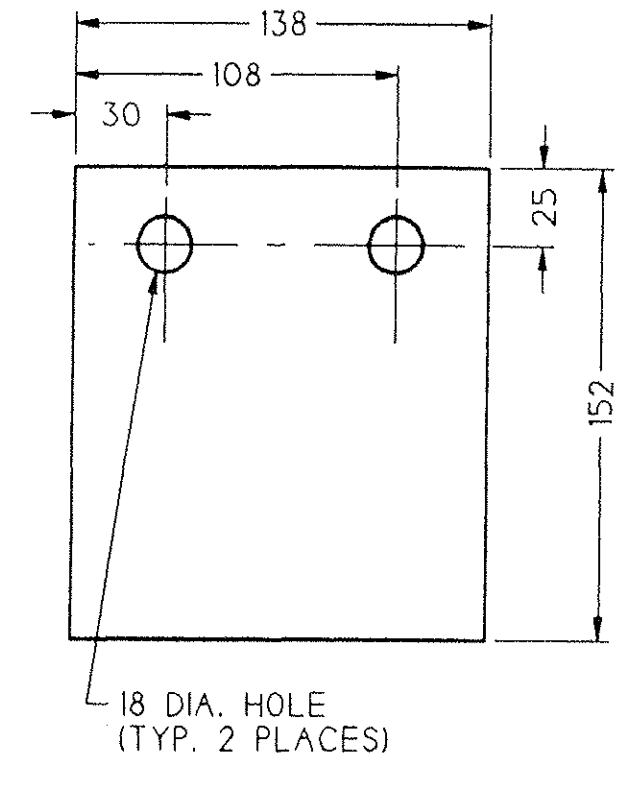
SECTION "B-B"
5x SCALE



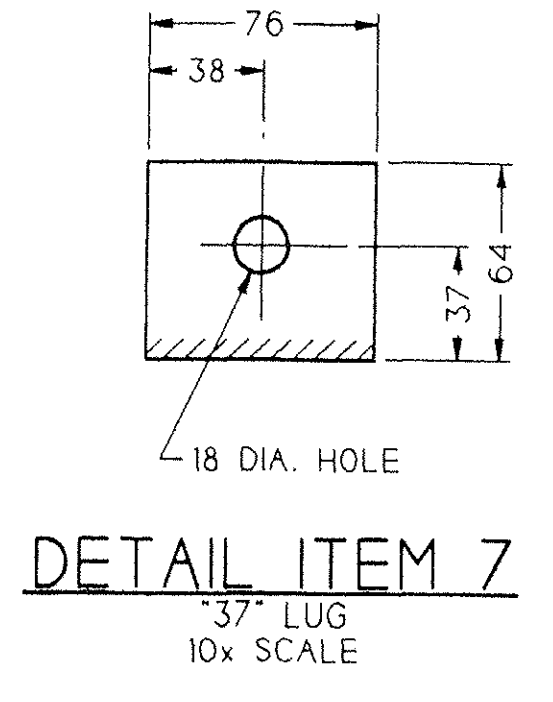
SECTION "C-C"
3x SCALE



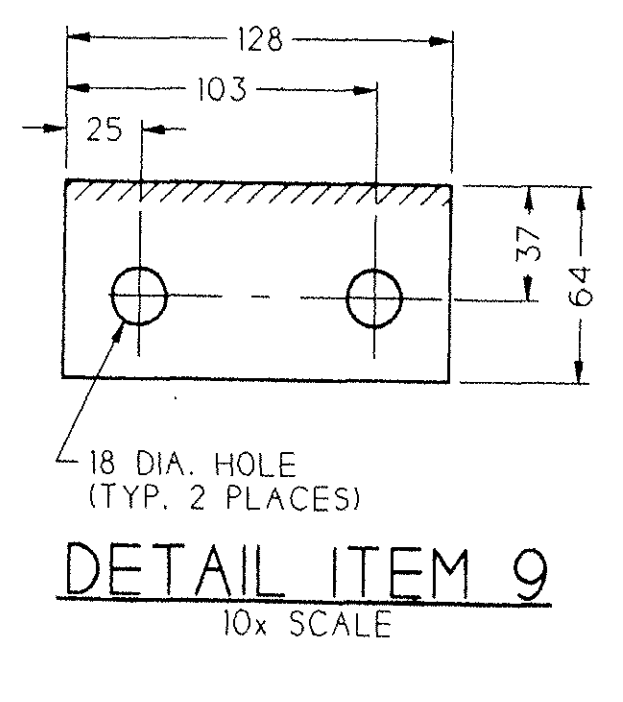
DETAIL ITEM 5
5x SCALE



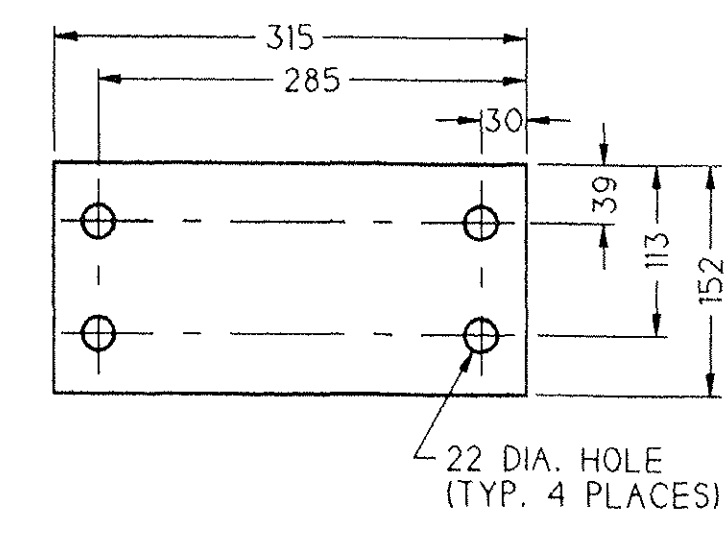
DETAIL ITEM 10
10x SCALE



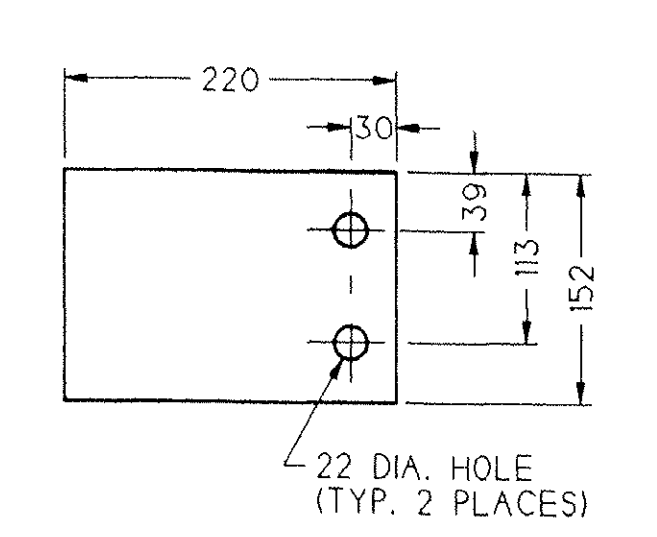
DETAIL ITEM 7
37" LUG
10x SCALE



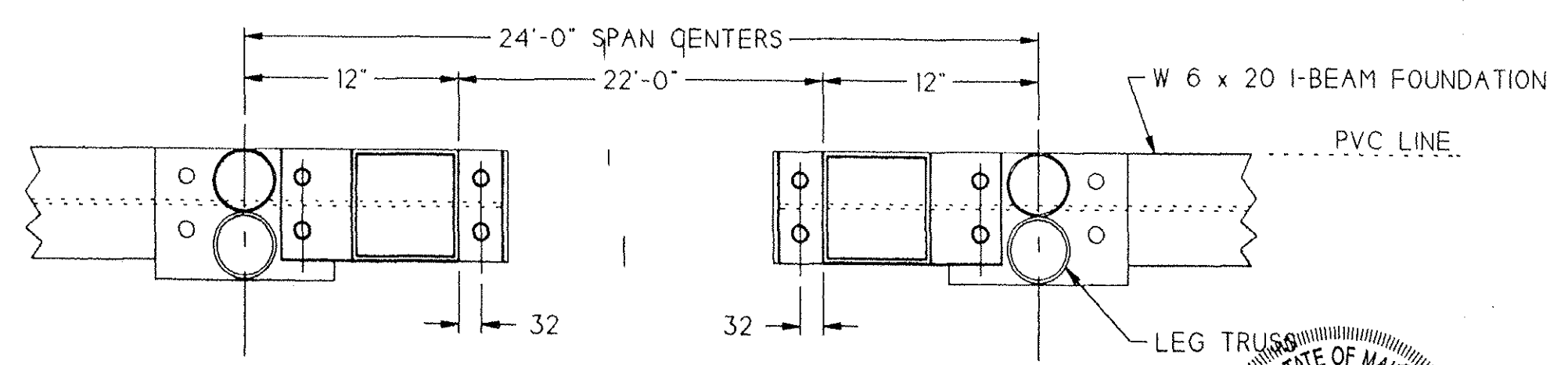
DETAIL ITEM 9
10x SCALE



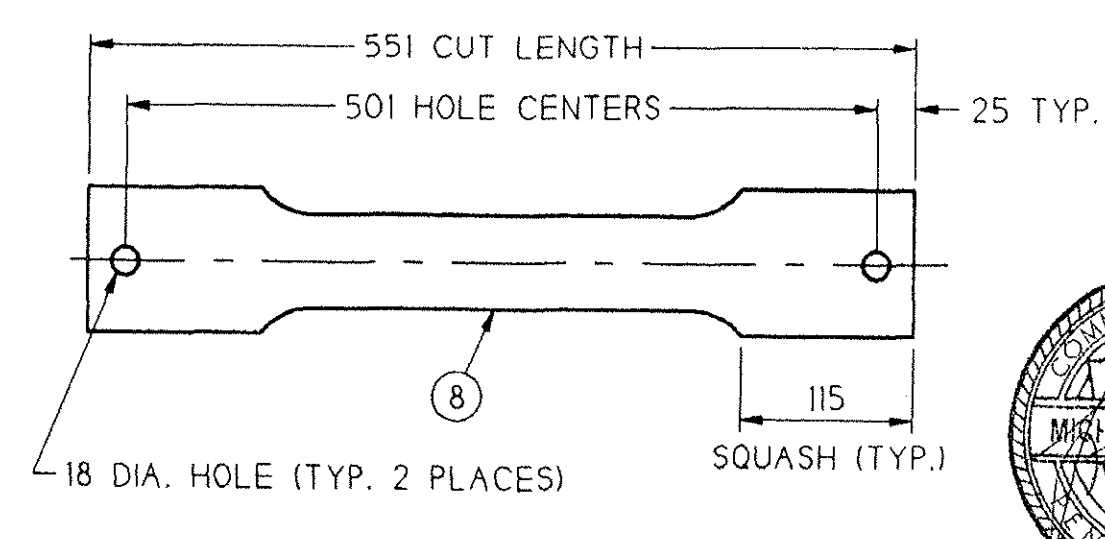
DETAIL ITEM 11
5x SCALE



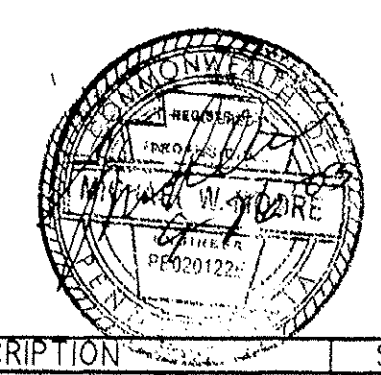
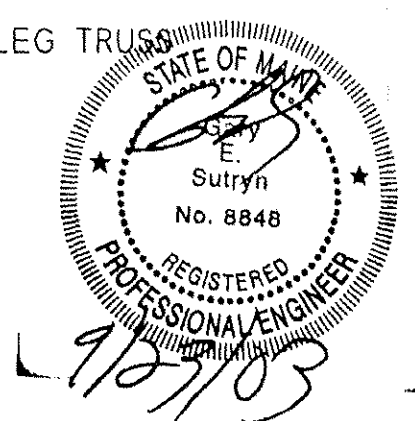
DETAIL ITEM 12
5x SCALE



SECTION "D-D"
3x SCALE



ASSEMBLY D4
5x SCALE



ITEM	QTY.	DESCRIPTION	SPEC.
1	2	TS 6" x 6" x 1/4" x 5344	A500
2	1	TS 6" x 6" x 3/16" x 6686	A500
3	1	TS 12" x 6" x 3/16" x 7034	A500
4	2	FLAT 8" x 5/8" x 292	A36
5	2	FLAT 5" x 3/8" x 260	A36
6	7	FLAT 2 1/2" x 1/4" x 52	A36
7	4	FLAT 2 1/2" x 3/8" x 76	A36
8	2	TUBE 2 3/8" DIA. x 120" x 551	A500
9	2	FLAT 2 1/2" x 3/8" x 128	A36
10	2	FLAT 6" x 3/8" x 138	A36
11	2	FLAT 6" x 5/8" x 315	A36
12	2	FLAT 6" x 5/8" x 220	A36

- NOTES:
- 1) BREAK SHARP CORNERS FOR PVC.
 - 2) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
 - 3) BILL OF MATERIAL IS FOR ONE DOOR ASSEMBLY.
 - 4) SEE PLAN VIEW AND ELEVATIONS FOR LOCATION.
 - 5) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.
 - 6) VENT ALL TUBES AS REQUIRED FOR GALVANIZING.
 - 7) ALL A500 MATERIAL TO BE F_y = 50 ksi MINIMUM.

REV.	DESCRIPTION	DRAWN	APP.	DATE
AR 9-9-03	SCALE 1:25			
JAB 02/11/07	JOB # 03088			
022 9/1/03	JOB NAME JMG			

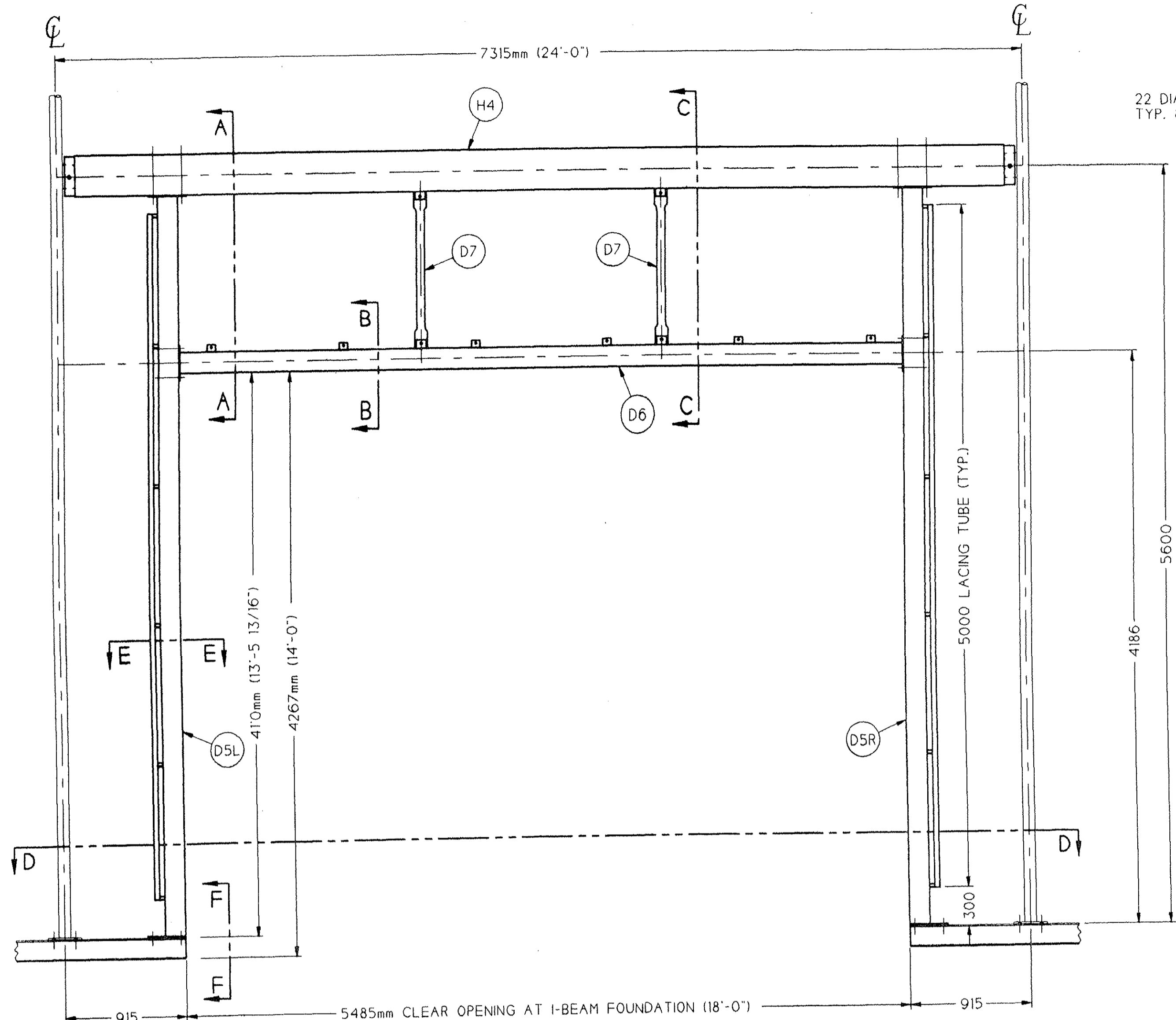
RUBB, INC. SANFORD MAINE 04073
TEL: 207-324-2877 FAX 207-324-2347

We Cover The World
RUBB
BUILDING SYSTEMS

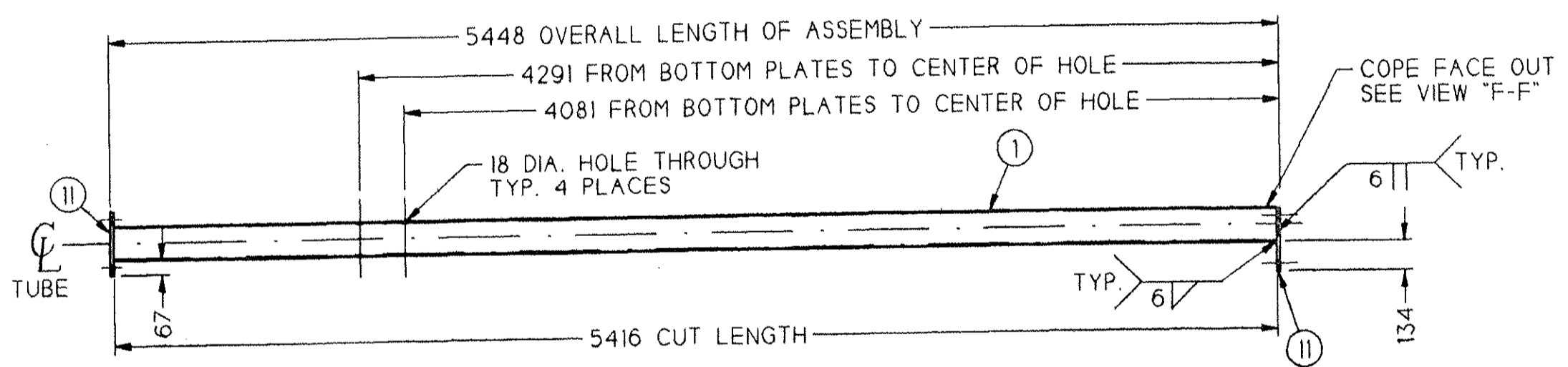
33.53m BVE BILINK / 7m LEG
22' x 16' SIDE R. S. DOOR STEEL

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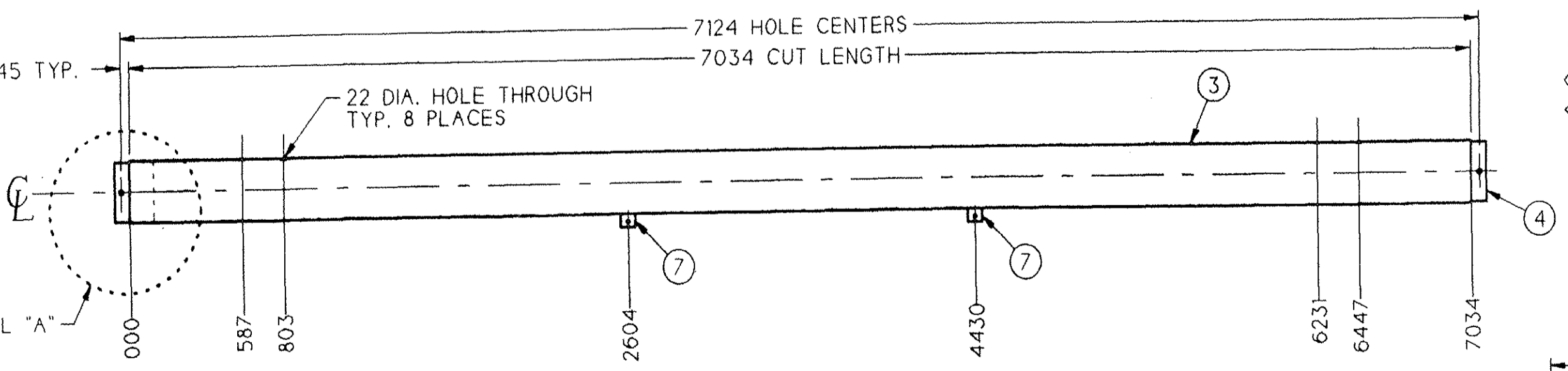
DRAWING NO. 37985



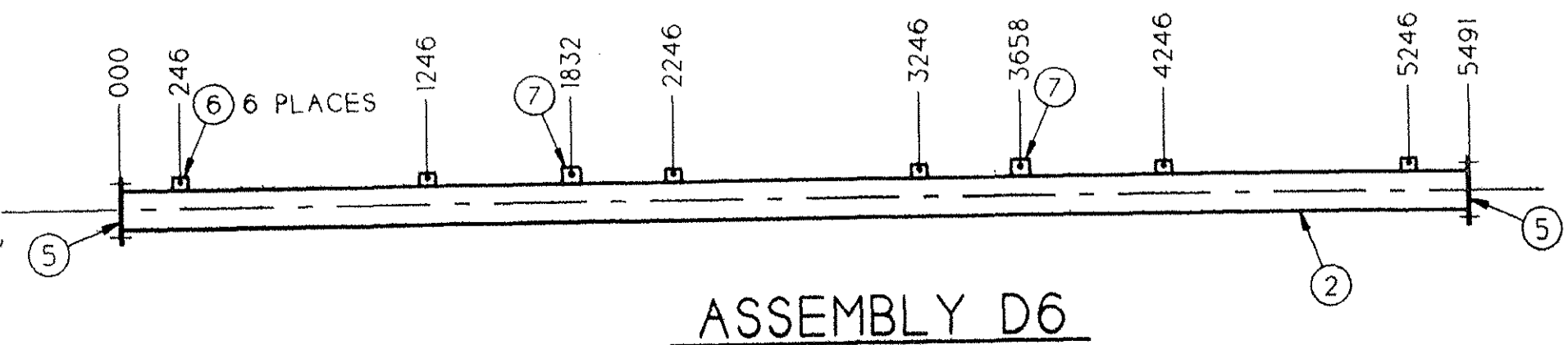
VIEW ON INSIDE



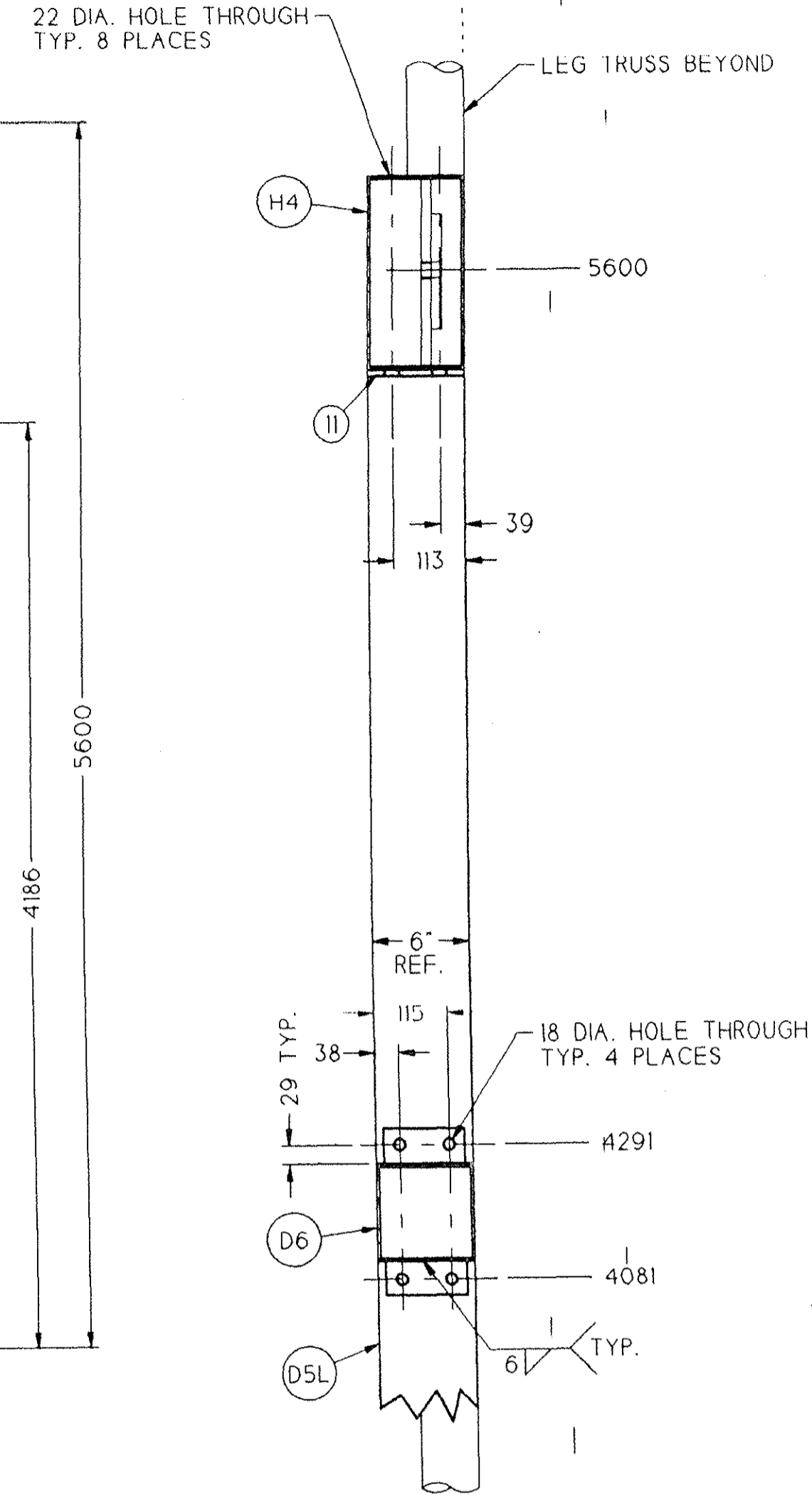
ASSEMBLY D5



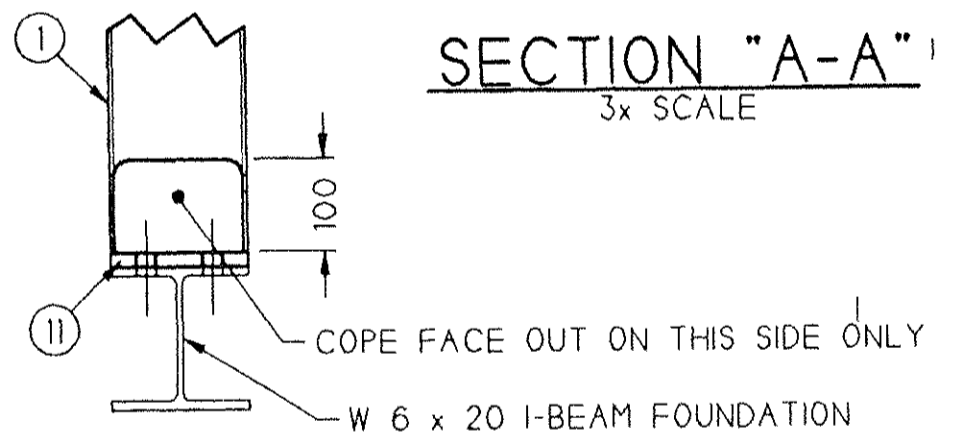
ASSEMBLY H4



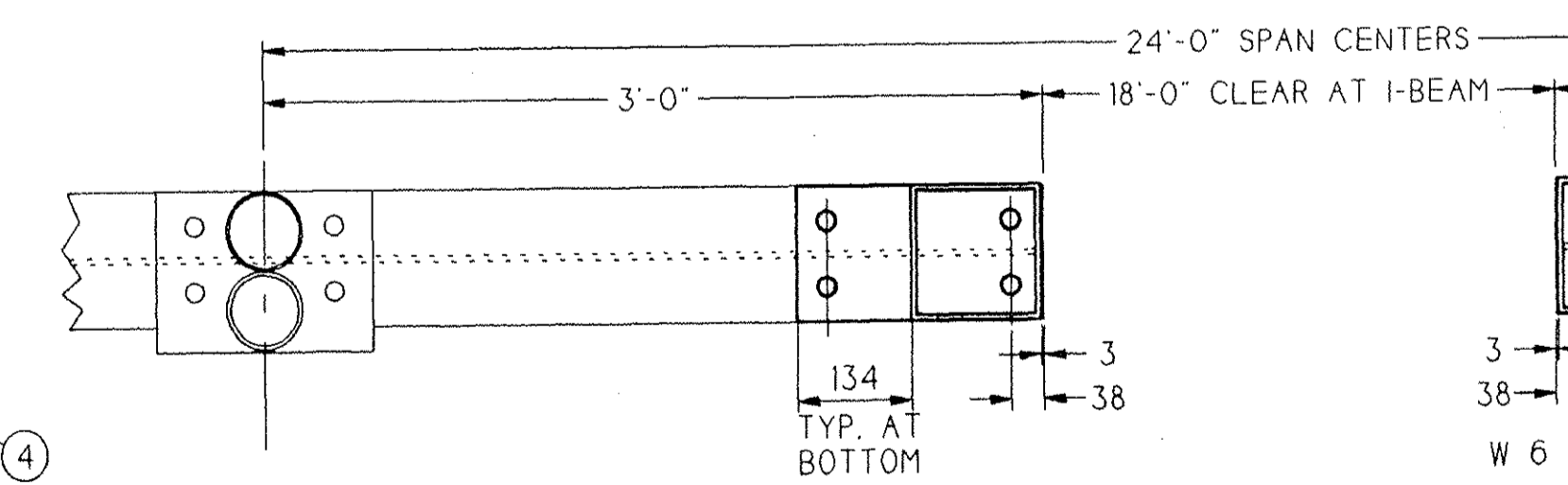
ASSEMBLY D6



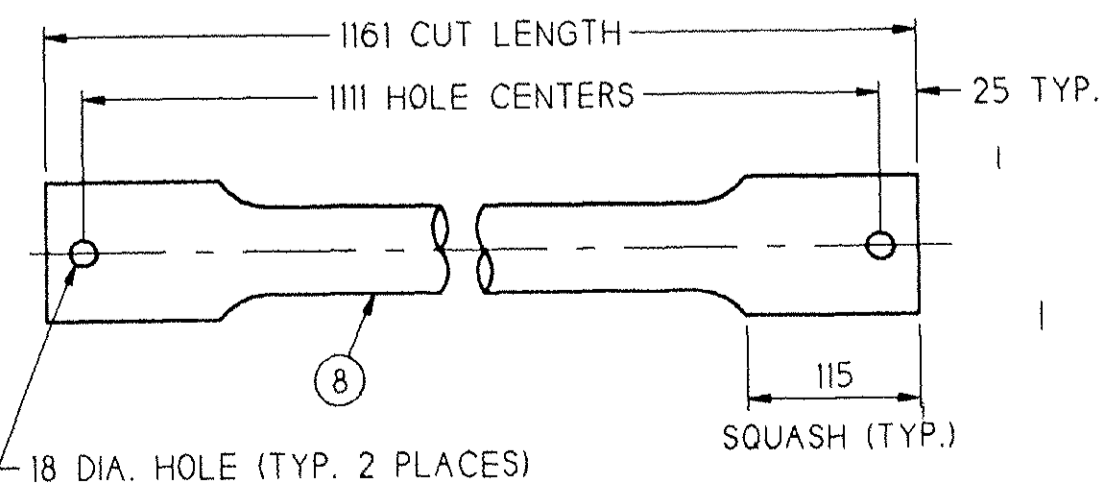
SECTION "A-A"



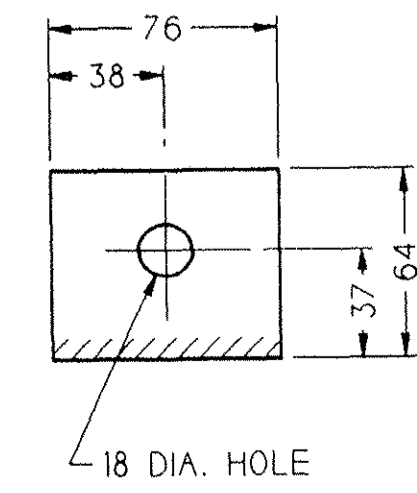
VIEW "F-F"



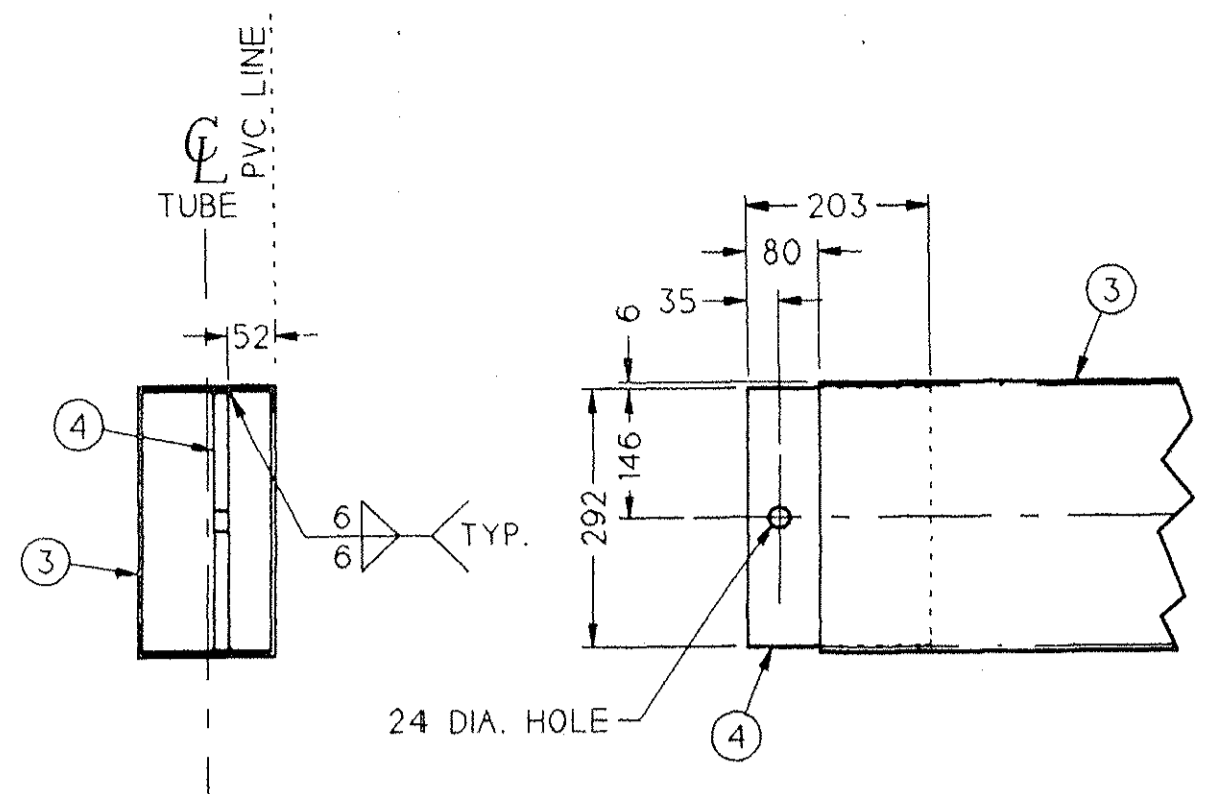
SECTION "D-D"



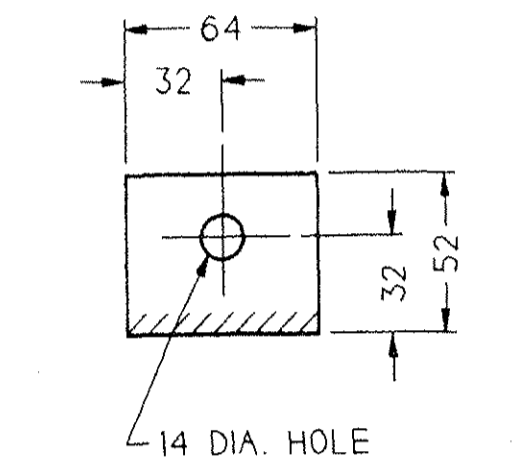
ASSEMBLY D7



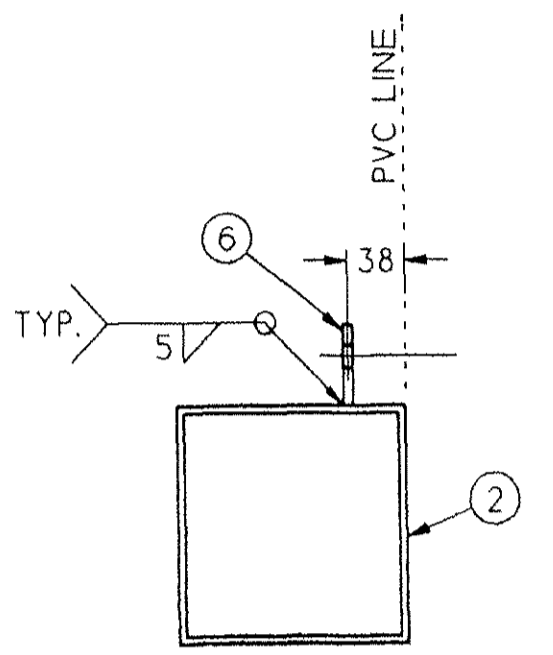
DETAIL ITEM 7



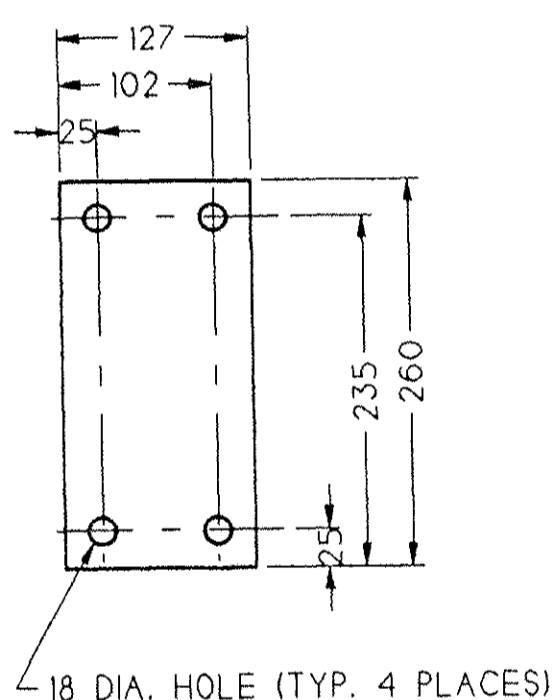
DETAIL "A"



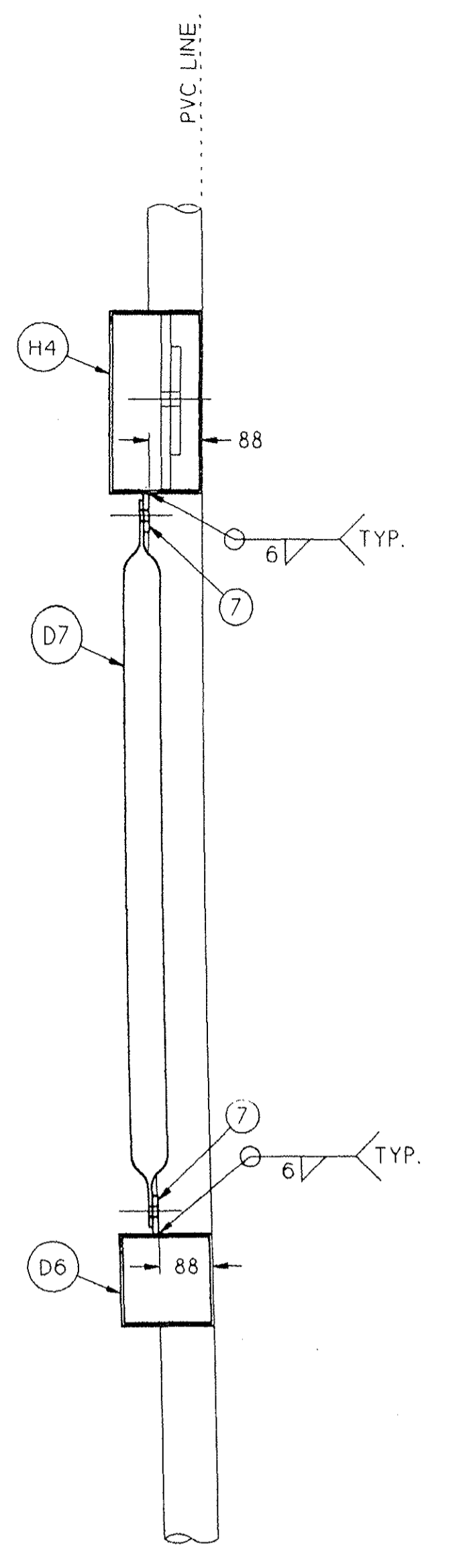
DETAIL ITEM 6



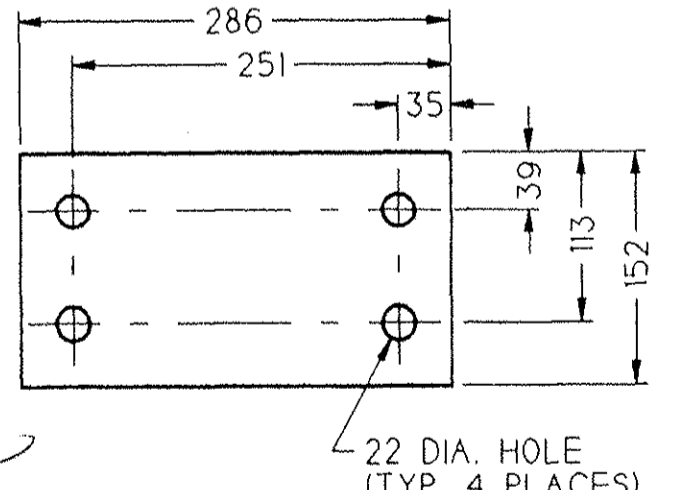
SECTION "B-B"



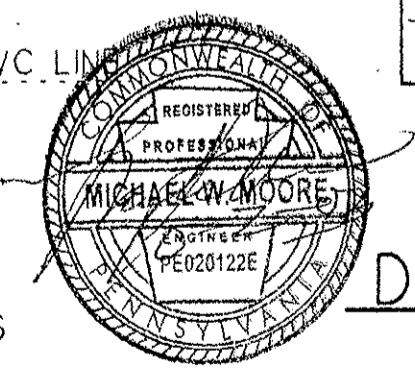
DETAIL ITEM 5



SECTION "C-C"



DETAIL ITEM 11

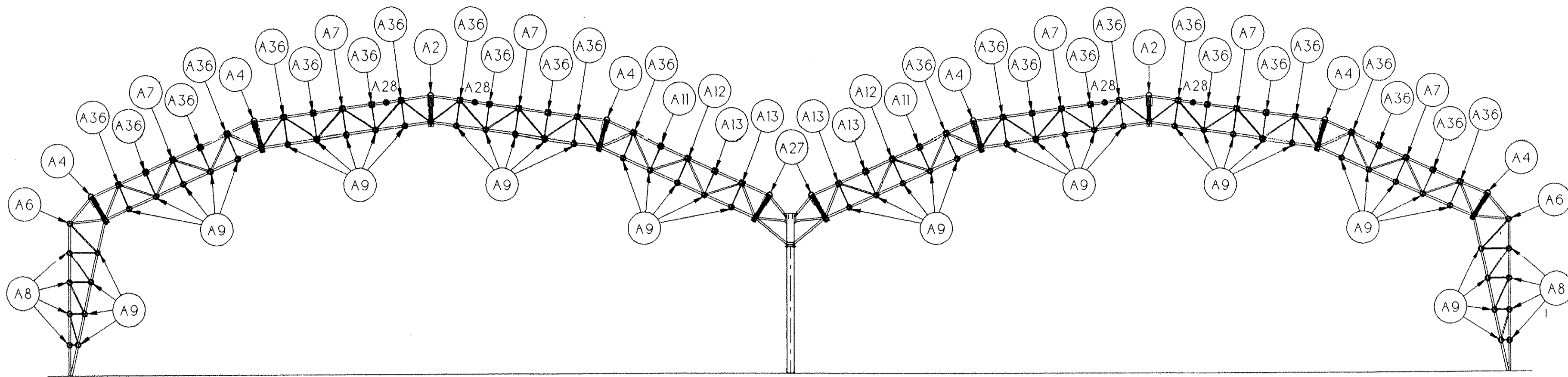


NOTES:
 1.) BREAK SHARP CORNERS FOR PVC.
 2.) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
 3.) BILL OF MATERIAL IS FOR ONE DOOR ASSEMBLY.
 4.) SEE PLAN VIEW AND ELEVATIONS FOR LOCATION.
 5.) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.
 6.) VENT ALL TUBES AS REQUIRED FOR GALVANIZING.
 7.) ALL A500 MATERIAL TO BE Fy = 50 KSI MINIMUM.

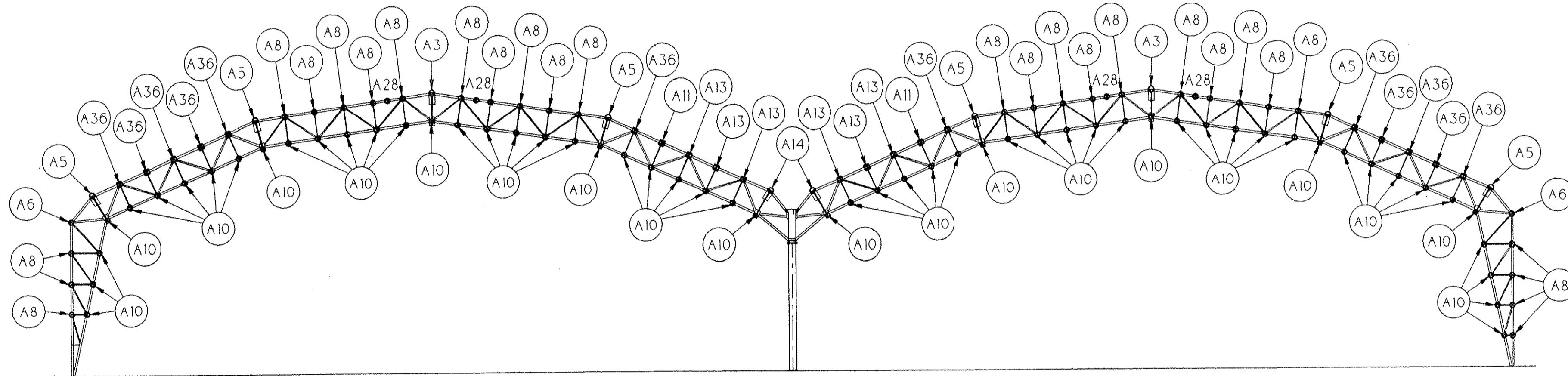
ITEM	QTY	DESCRIPTION	SPEC
1	2	TS 6" x 6" x 3/16" x 5416	A500
2	1	TS 6" x 6" x 3/16" x 5471	A500
3	1	TS 12" x 6" x 3/16" x 7034	A500
4	2	FLAT 8" x 5/8" x 292	A36
5	2	FLAT 5" x 3/8" x 260	A36
6	6	FLAT 2 1/2" x 1/4" x 76	A36
7	4	FLAT 2 1/2" x 3/8" x 76	A36
8	2	TUBE 2 3/8" DIA. x .120" x 1161	A500
9	-	-	-
10	-	-	-
11	4	FLAT 6" x 5/8" x 286	A36
12	-	-	-

REV.	DESCRIPTION	DRAWN	APP.	DATE
1	33.53m BVE BILINK / 7m LEG 18" x 14" SIDE R. S. DOOR STEEL			

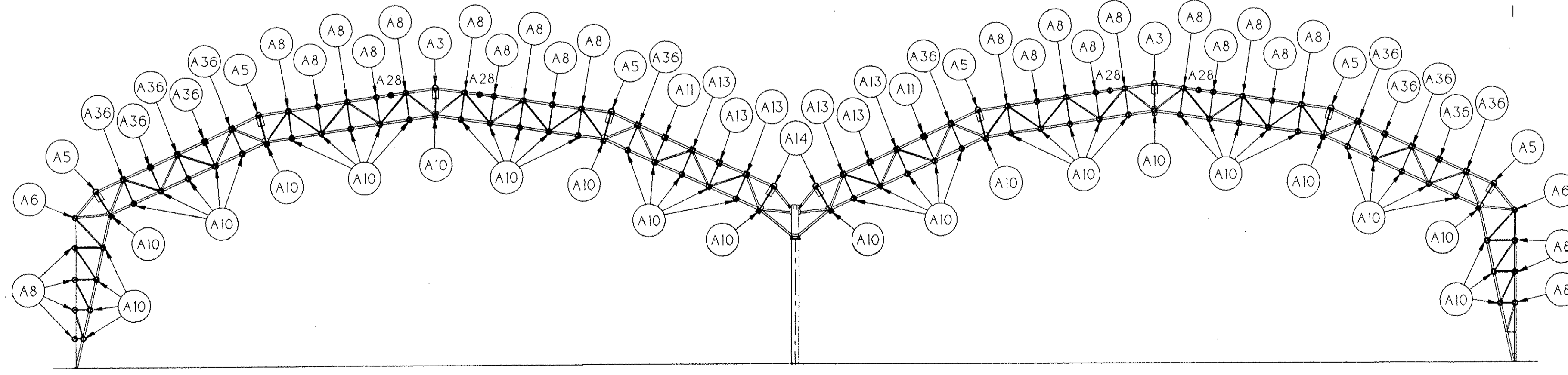
We Cover The World
RUBB
 BUILDING SYSTEMS
 DRAWN: AR 9-10-03
 APP: JMS 09/11/07
 DATE: 09/11/07
 RUBB, INC. SANFORD MAINE 04073
 TEL: 207-324-2877 FAX 207-324-2347



BAY D
VIEW FACING NORTH
12'-6" BAY
2 REQUIRED



BAY E
VIEW FACING NORTH
12'-6" BAY
2 REQUIRED

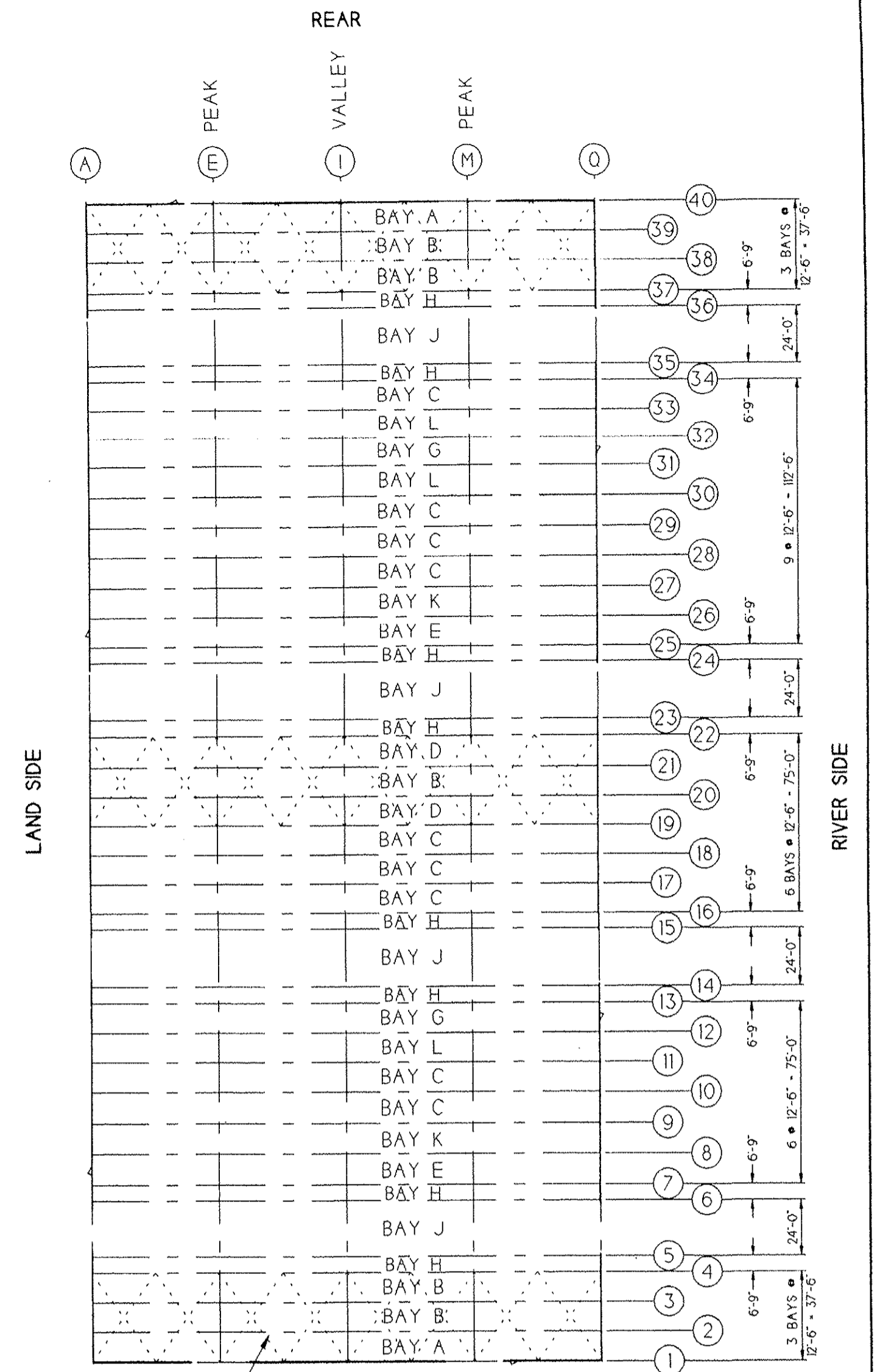


BAY G
VIEW FACING NORTH
12'-6" BAY
2 REQUIRED

ASSEMBLY	QTY	DESCRIPTION	DRAWING
A1	0	GABLE PEAK AXIAL FRAME	37910
A2	2	PEAK AXIAL FRAME	37910
A3	0	5 9/16" PEAK AXIAL TUBE	37910
A4	6	NON-PEAK AXIAL FRAME	37911
A5	0	4 1/2" DIA. NON-PEAK AXIAL TUBE	37911
A6	2	LEG BEND AXIAL D-FRAME	37911
A7	6	4" x 4" NON-APEX COMPRESSION TUBE	37911
A8	8	3 1/2" DIA. ROOF LONGITUDINAL	37911
A9	48	2 3/8" DIA. INNER NODE RESTRAINT	37911
A10	0	1.31" DIA. UNDERGIRT TUBE	37911
A11	2	3 1/2" SQ. VALLEY ROOF LONGITUDINAL	37913
A12	2	4" SQ. VALLEY NON-APEX COMP. TUBE	37913
A13	4	3 1/2" SQ. VALLEY ROOF LONGITUDINAL	37913
A14	0	4 1/2" DIA. VALLEY NP. AXIAL TUBE	37913
A15	0	6" x 3" LEG & ROOF LONGITUDINAL TUBE	37914
A16	0	7" x 4" VALLEY ROOF LONGITUDINAL TUBE	37914
A17	0	7" x 4" VALLEY ROOF LONGITUDINAL TUBE	37914
A18	0	3" DIA. UNDERGIRT	37914
A19	0	4" DIA. LEG BEND AXIAL TUBE	37912
A20	0	4" DIA. NON-PEAK AXIAL TUBE	37912
A21	0	4" DIA. VALLEY NON-PEAK AXIAL TUBE	37912
A22	0	1.9" DIA. ROOF LONGITUDINAL	37912
A23	0	3" x 3" VALLEY ROOF LONGITUDINAL	37912
A24	0	3" x 3" VALLEY ROOF LONGITUDINAL	37912
A25	0	1.31" DIA. UNDERGIRT TUBE	37912
A26	0	5 9/16" DIA. PEAK AXIAL TUBE	37912
A27	2	VALLEY NON-PEAK AXIAL FRAME	38026
A28	4	PVC UNROLLING TUBE	37911
A29	0	PEAK AXIAL TUBE 24' BAYS	37914
A30	0	NON-PEAK AXIAL TUBE 24' BAYS	37914
A31	0	LEG BEND AXIAL TUBE 24' BAYS	37914
A32	0	PVC UNROLLING TUBE 24' BAYS	37914
A33	0	VALLEY NON-PEAK AXIAL TUBE 24' BAYS	38036
A34	0	1.9" DIA. INNER NODE RESTRAINT TUBE	37912
A35	-	-	-
A36	26	3 1/2" SQ. ROOF LONGITUDINAL TUBE	37911
A37	0	2 3/8" DIA. ROOF LONGITUDINAL	37912
A38	0	7" x 4" N.V. ROOF LONGITUDINAL	37914
H3	0	TS 12" x 6" OVERHEAD DOOR HEADER	37985
H4	0	TS 12" x 6" OVERHEAD DOOR HEADER	37986

ASSEMBLY	QTY	DESCRIPTION	DRAWING
A1	0	GABLE PEAK AXIAL FRAME	37910
A2	0	PEAK AXIAL FRAME	37910
A3	2	5 9/16" PEAK AXIAL TUBE	37910
A4	0	NON-PEAK AXIAL FRAME	37911
A5	6	4 1/2" DIA. NON-PEAK AXIAL TUBE	37911
A6	2	LEG BEND AXIAL D-FRAME	37911
A7	0	4" x 4" NON-APEX COMPRESSION TUBE	37911
A8	27	3 1/2" DIA. ROOF LONGITUDINAL	37911
A9	0	2 3/8" DIA. INNER NODE RESTRAINT	37911
A10	57	1.31" DIA. UNDERGIRT TUBE	37911
A11	2	3 1/2" SQ. VALLEY ROOF LONGITUDINAL	37913
A12	0	4" SQ. VALLEY NON-APEX COMP. TUBE	37913
A13	6	3 1/2" SQ. VALLEY ROOF LONGITUDINAL	37913
A14	2	4 1/2" DIA. VALLEY NP. AXIAL TUBE	37913
A15	0	6" x 3" LEG & ROOF LONGITUDINAL TUBE	37914
A16	0	7" x 4" VALLEY ROOF LONGITUDINAL TUBE	37914
A17	0	7" x 4" VALLEY ROOF LONGITUDINAL TUBE	37914
A18	0	3" DIA. UNDERGIRT	37914
A19	0	4" DIA. LEG BEND AXIAL TUBE	37912
A20	0	4" DIA. NON-PEAK AXIAL TUBE	37912
A21	0	4" DIA. VALLEY NON-PEAK AXIAL TUBE	37912
A22	0	1.9" DIA. ROOF LONGITUDINAL	37912
A23	0	3" x 3" VALLEY ROOF LONGITUDINAL	37912
A24	0	3" x 3" VALLEY ROOF LONGITUDINAL	37912
A25	0	1.31" DIA. UNDERGIRT TUBE	37912
A26	0	5 9/16" DIA. PEAK AXIAL TUBE	37912
A27	0	VALLEY NON-PEAK AXIAL FRAME	38026
A28	4	PVC UNROLLING TUBE	37911
A29	0	PEAK AXIAL TUBE 24' BAYS	37914
A30	0	NON-PEAK AXIAL TUBE 24' BAYS	37914
A31	0	LEG BEND AXIAL TUBE 24' BAYS	37914
A32	0	PVC UNROLLING TUBE 24' BAYS	37914
A33	0	VALLEY NON-PEAK AXIAL TUBE 24' BAYS	38036
A34	0	1.9" DIA. INNER NODE RESTRAINT TUBE	37912
A35	-	-	-
A36	12	3 1/2" SQ. ROOF LONGITUDINAL TUBE	37911
A37	0	2 3/8" DIA. ROOF LONGITUDINAL	37912
A38	0	7" x 4" N.V. ROOF LONGITUDINAL	37914
H3	0	TS 12" x 6" OVERHEAD DOOR HEADER	37985
H4	0	TS 12" x 6" OVERHEAD DOOR HEADER	37986

ASSEMBLY	QTY	DESCRIPTION	DRAWING
A1	0	GABLE PEAK AXIAL FRAME	37910
A2	0	PEAK AXIAL FRAME	37910
A3	2	5 9/16" PEAK AXIAL TUBE	37910
A4	0	NON-PEAK AXIAL FRAME	37911
A5	6	4 1/2" DIA. NON-PEAK AXIAL TUBE	37911
A6	2	LEG BEND AXIAL D-FRAME	37911
A7	0	4" x 4" NON-APEX COMPRESSION TUBE	37911
A8	27	3 1/2" DIA. ROOF LONGITUDINAL	37911
A9	0	2 3/8" DIA. INNER NODE RESTRAINT	37911
A10	57	1.31" DIA. UNDERGIRT TUBE	37911
A11	2	3 1/2" SQ. VALLEY ROOF LONGITUDINAL	37913
A12	0	4" SQ. VALLEY NON-APEX COMP. TUBE	37913
A13	6	3 1/2" SQ. VALLEY ROOF LONGITUDINAL	37913
A14	2	4 1/2" DIA. VALLEY NP. AXIAL TUBE	37913
A15	0	6" x 3" LEG & ROOF LONGITUDINAL TUBE	37914
A16	0	7" x 4" VALLEY ROOF LONGITUDINAL TUBE	37914
A17	0	7" x 4" VALLEY ROOF LONGITUDINAL TUBE	37914
A18	0	3" DIA. UNDERGIRT	37914
A19	0	4" DIA. LEG BEND AXIAL TUBE	37912
A20	0	4" DIA. NON-PEAK AXIAL TUBE	37912
A21	0	4" DIA. VALLEY NON-PEAK AXIAL TUBE	37912
A22	0	1.9" DIA. ROOF LONGITUDINAL	37912
A23	0	3" x 3" VALLEY ROOF LONGITUDINAL	37912
A24	0	3" x 3" VALLEY ROOF LONGITUDINAL	37912
A25	0	1.31" DIA. UNDERGIRT TUBE	37912
A26	0	5 9/16" DIA. PEAK AXIAL TUBE	37912
A27	0	VALLEY NON-PEAK AXIAL FRAME	38026
A28	4	PVC UNROLLING TUBE	37911
A29	0	PEAK AXIAL TUBE 24' BAYS	37914
A30	0	NON-PEAK AXIAL TUBE 24' BAYS	37914
A31	0	LEG BEND AXIAL TUBE 24' BAYS	37914
A32	0	PVC UNROLLING TUBE 24' BAYS	37914
A33	0	VALLEY NON-PEAK AXIAL TUBE 24' BAYS	38036
A34	0	1.9" DIA. INNER NODE RESTRAINT TUBE	37912
A35	-	-	-
A36	12	3 1/2" SQ. ROOF LONGITUDINAL TUBE	37911
A37	0	2 3/8" DIA. ROOF LONGITUDINAL	37912
A38	0	7" x 4" N.V. ROOF LONGITUDINAL	37914
H3	0	TS 12" x 6" OVERHEAD DOOR HEADER	37985
H4	0	TS 12" x 6" OVERHEAD DOOR HEADER	37986



REPRESENTATIVE FOR WIND BRACING CABLES

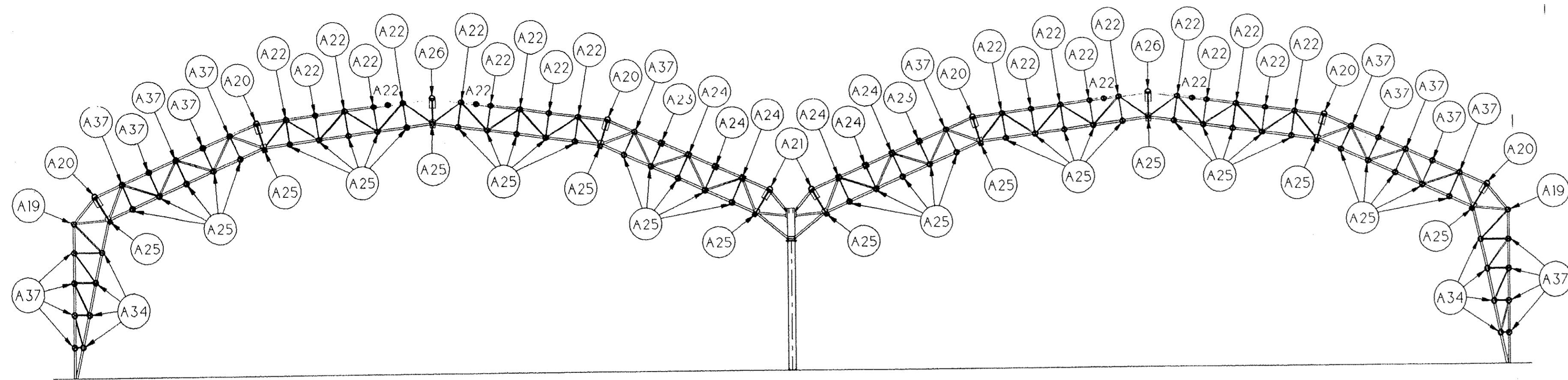
PLAN VIEW
1/4" SCALE

BOLT SCHEDULE

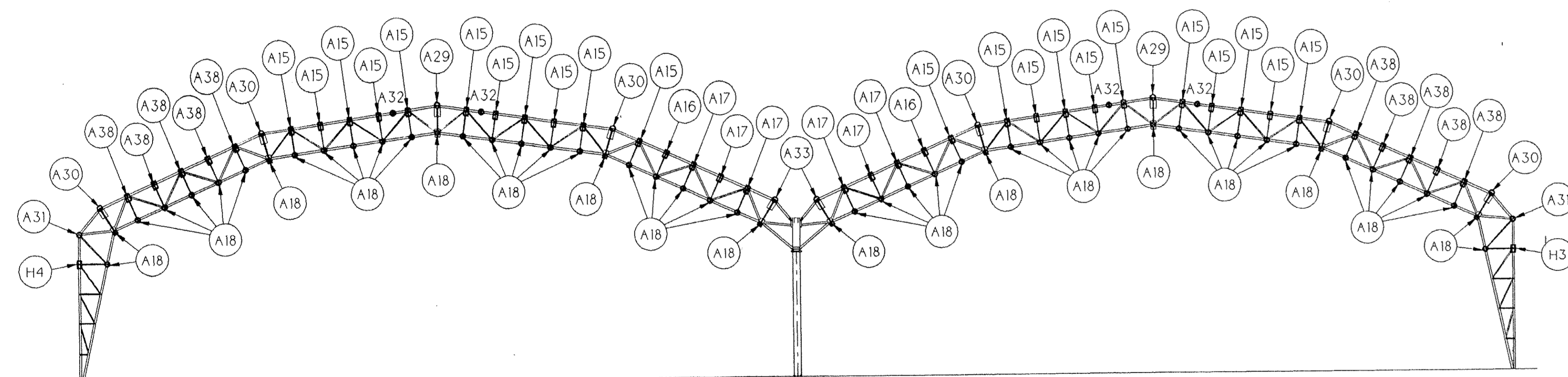
ASSEMBLY	DESCRIPTION	BOLT	SPEC.	BOLT TIGHTNESS
A1, A2, A3, A26 & A29	PEAK AXIAL FRAME / TOP & PEAK AXIAL TUBE	5/8" x 1 3/4"	A325	SNUG TIGHT
A1 & A2	PEAK AXIAL FRAME / BOTTOM	7/8" x 2 3/4"	A325	SNUG TIGHT
A4, A5, A14, A20, A21, A27, A30 & A33	NON-PEAK AXIAL FRAMES & TUBES	7/8" x 2 3/4"	A325	SNUG TIGHT
A6, A19 & A31	LEG BEND AXIAL D-FRAME & TUBE	1" x 2 1/2"	A325	SNUG TIGHT
A7 & A12	NON-APEX COMPRESSION TUBE	7/8" x 2 3/4"	A325	SNUG TIGHT
A8, A11, A13, A15, A16, A17, A22, A23, A24, A36, A37 & A38	ROOF LONGITUDINAL TUBE	5/8" x 1 3/4"	A325	SNUG TIGHT
A9, A10, A18, A25 & A34	UNDERGIRTS / INNER NODE RESTRAINT TUBE	1/2" x 1 1/2"	GRADE 5	SNUG TIGHT
A28 & A32	PVC UNROLLING TUBES	5/8" x 1 3/4"	A325	SNUG TIGHT
H3 & H4	OVERHEAD DOOR HEADER	7/8" x 2 3/4"	A325	SNUG TIGHT

- GENERAL NOTES:
 1.) SEE STEEL LAYOUT DRAWING 37886 FOR CENTRAL GIRDERS AND CENTRAL COLUMNS.
 2.) SEE DRAWINGS 37976, 37988 AND 37989 FOR BAYS NOT SHOWN HERE.
 3.) BOLT TIGHTNESS TO BE AS DEFINED IN THE AISC STEEL MANUAL (9th EDITION).

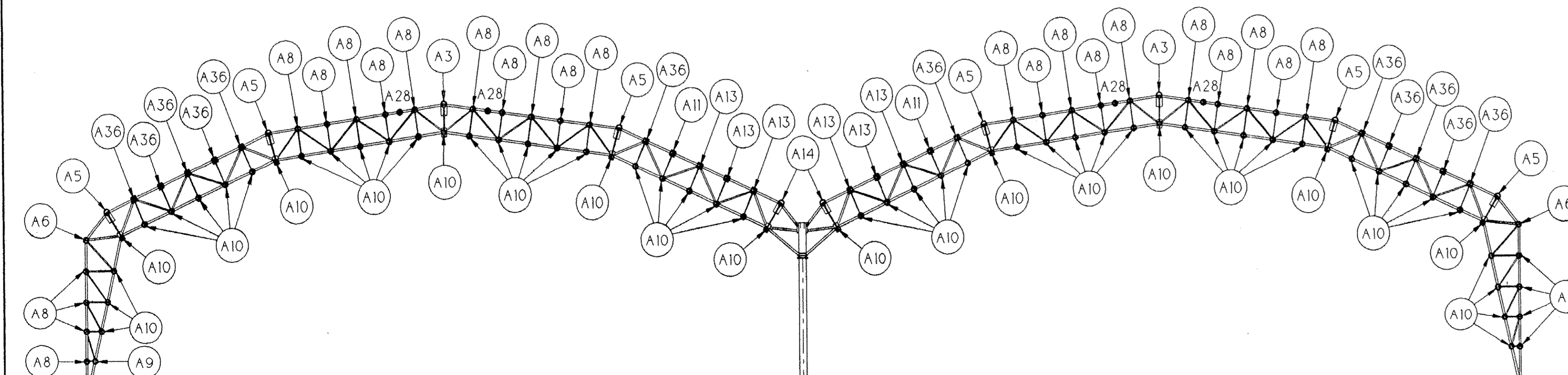
	DESCRIPTION	DRAWN	APP.	DATE
	COVER THE WORLD RUBB BUILDING SYSTEMS 33.5m BVE BILINK / 7m LEG PURLIN PROFILE 2 OF 4 DRAWINGS			
DRAWN APP. DATE	MRB 8/26/03 8/28/03	SCALE 1 : 150	JOB # 03088	This drawing is the property of Rubb, Inc. and may not be reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.
RUBB, INC. SANFORD MAINE 04073 TEL: 207-324-2877 FAX 207-324-2347				DRAWING NO. 37987

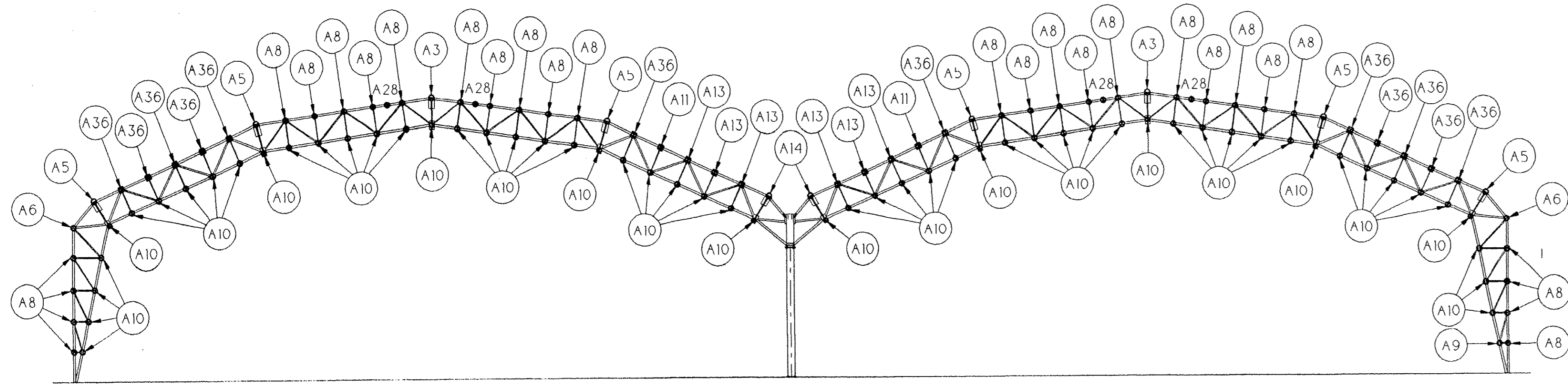


BAY H
VIEW FACING NORTH
6'-9" BAY
8 REQUIRED



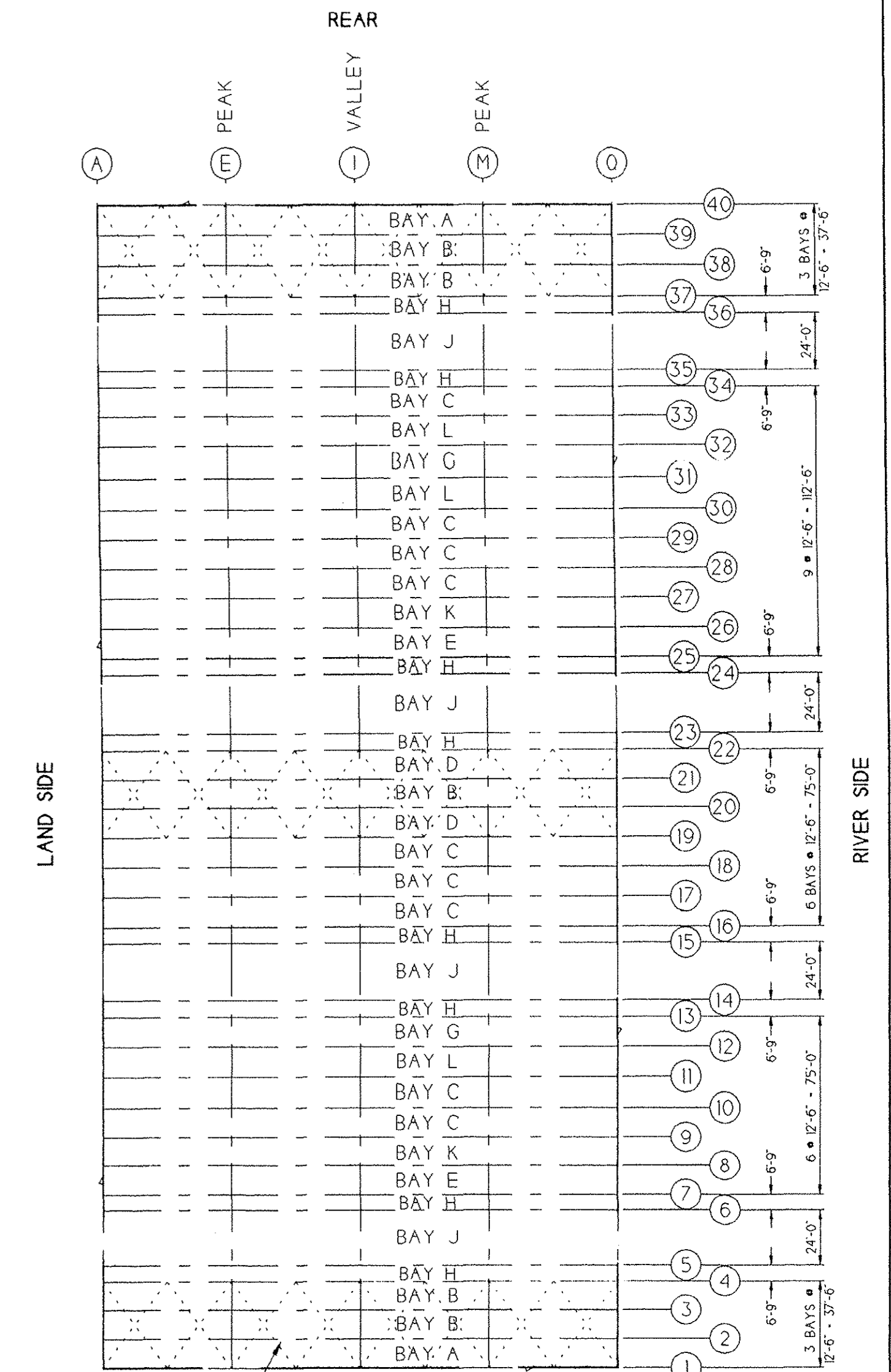
BAY J
VIEW FACING NORTH
24'-0" BAY
4 REQUIRED



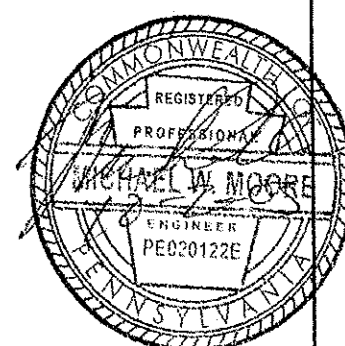


BAY L
VIEW FACING NORTH
12'-6" BAY
3 REQUIRED

ASSEMBLY	QTY.	DESCRIPTION	DRAWING
A1	0	GABLE PEAK AXIAL FRAME	37910
A2	0	PEAK AXIAL FRAME	37910
A3	2	5 9/16" PEAK AXIAL TUBE	37910
A4	0	NON-PEAK AXIAL FRAME	37911
A5	6	4 1/2" DIA. NON-PEAK AXIAL TUBE	37911
A6	2	LEG BEND AXIAL D-FRAME	37911
A7	0	4" x 4" NON-APEX COMPRESSION TUBE	37911
A8	28	3 1/2" DIA. ROOF LONGITUDINAL	37911
A9	1	2 3/8" DIA. INNER NODE RESTRAINT	37911
A10	57	1.31" DIA. UNDERGIRT TUBE	37911
A11	2	3 1/2" SO. VALLEY ROOF LONGITUDINAL	37913
A12	0	4" SO. VALLEY NON-APEX COMP. TUBE	37913
A13	6	3 1/2" SO. VALLEY ROOF LONGITUDINAL	37913
A14	2	4 1/2" DIA. VALLEY NP. AXIAL TUBE	37913
A15	0	6" x 3" LEG & ROOF LONGITUDINAL TUBE	37914
A16	0	7" x 4" VALLEY ROOF LONGITUDINAL TUBE	37914
A17	0	7" x 4" VALLEY ROOF LONGITUDINAL TUBE	37914
A18	0	3" DIA. UNDERGIRT	37914
A19	0	4" DIA. LEG BEND AXIAL TUBE	37912
A20	0	4" DIA. NON-PEAK AXIAL TUBE	37912
A21	0	4" DIA. VALLEY NON-PEAK AXIAL TUBE	37912
A22	0	1.9" DIA. ROOF LONGITUDINAL	37912
A23	0	3" x 3" VALLEY ROOF LONGITUDINAL	37912
A24	0	3" x 3" VALLEY ROOF LONGITUDINAL	37912
A25	0	1.31" DIA. UNDERGIRT TUBE	37912
A26	0	5 9/16" DIA. PEAK AXIAL TUBE	37912
A27	0	VALLEY NON-PEAK AXIAL FRAME	38026
A28	4	PVC UNROLLING TUBE	37911
A29	0	PEAK AXIAL TUBE 24' BAYS	37914
A30	0	NON-PEAK AXIAL TUBE 24' BAYS	37914
A31	0	LEG BEND AXIAL TUBE 24' BAYS	37914
A32	0	PVC UNROLLING TUBE 24' BAYS	37914
A33	0	VALLEY NON-PEAK AXIAL TUBE 24' BAYS	38036
A34	0	1.9" DIA. INNER NODE RESTRAINT TUBE	37912
A35	-	-	-
A36	12	3 1/2" SO. ROOF LONGITUDINAL TUBE	37911
A37	0	2 3/8" DIA. ROOF LONGITUDINAL	37912
A38	0	7" x 4" N.V. ROOF LONGITUDINAL	37914
H3	0	TS 12" x 6" OVERHEAD DOOR HEADER	37985
H4	0	TS 12" x 6" OVERHEAD DOOR HEADER	37986



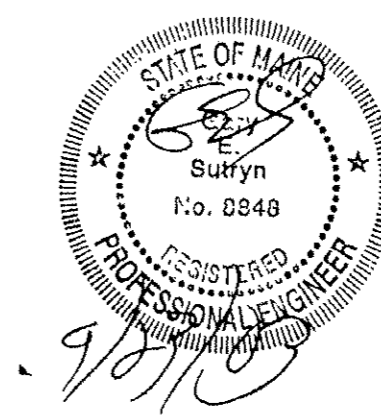
REPRESENTATIVE FOR WIND BRACING CABLES
FRONT
PLAN VIEW
1/4" SCALE



BOLT SCHEDULE

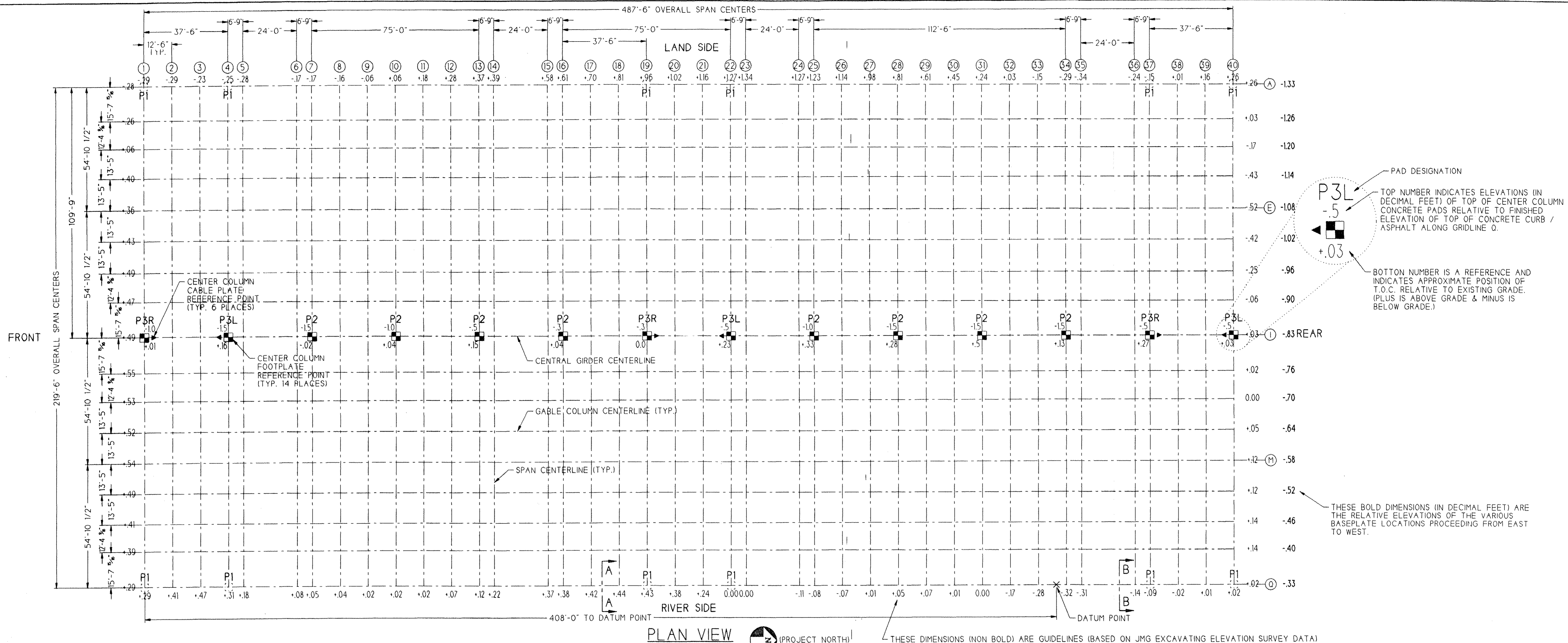
ASSEMBLY	DESCRIPTION	BOLT	SPEC.	BOLT TIGHTNESS
A1, A2, A3, A26 & A29	PEAK AXIAL FRAME / TOP & PEAK AXIAL TUBE	5/8" x 1 3/4"	A325	SNUG TIGHT
A1 & A2	PEAK AXIAL FRAME / BOTTOM	7/8" x 2 3/4"	A325	SNUG TIGHT
A4, A5, A14, A20, A21, A22, A30 & A33	NON-PEAK AXIAL FRAMES & TUBES	7/8" x 2 3/4"	A325	SNUG TIGHT
A6, A19 & A31	LEG BEND AXIAL D FRAME & TUBE	1" x 2 1/2"	A325	SNUG TIGHT
A7 & A12	NON-APEX COMPRESSION TUBE	7/8" x 2 3/4"	A325	SNUG TIGHT
A8, A11, A13, A15, A16, A17, A22, A23, A24, A36, A37 & A38	ROOF LONGITUDINAL TUBE	5/8" x 1 3/4"	A325	SNUG TIGHT
A9, A10, A18, A25 & A34	UNDERGRITS / INNER NODE RESTRAINT TUBE	1/2" x 1 1/2"	GRADE 5	SNUG TIGHT
A28 & A32	PVC UNROLLING TUBES	5/8" x 1 3/4"	A325	SNUG TIGHT
H3 & H4	OVERHEAD DOOR HEADER	7/8" x 2 3/4"	A325	SNUG TIGHT

GENERAL NOTES:
1.) SEE STEEL LAYOUT DRAWING 37886 FOR CENTRAL GIRDERS AND CENTRAL COLUMNS.
2.) SEE DRAWINGS 37976, 37987 AND 37988 FOR BAYS NOT SHOWN HERE.
3.) BOLT TIGHTNESS TO BE SNUG TIGHT AS DEFINED IN THE AISC STEEL MANUAL (9th EDITION).



REV.	DESCRIPTION	DRAWN	APP.	DATE
1	33.5m BVE BILINK / 7m LEG PURLIN PROFILE 4 OF 4 DRAWINGS	JMG		8/26/03

RUBB
 BUILDING SYSTEMS
 We Cover The World
 SCALE: 1 : 150
 JOB #: 03088
 DATE: 8/26/03
 JOB NAME: JMG
 RUBB, INC. SANFORD MAINE 04073
 TEL: 207-324-2877 FAX 207-324-2347
 DRAWING NO: 37989



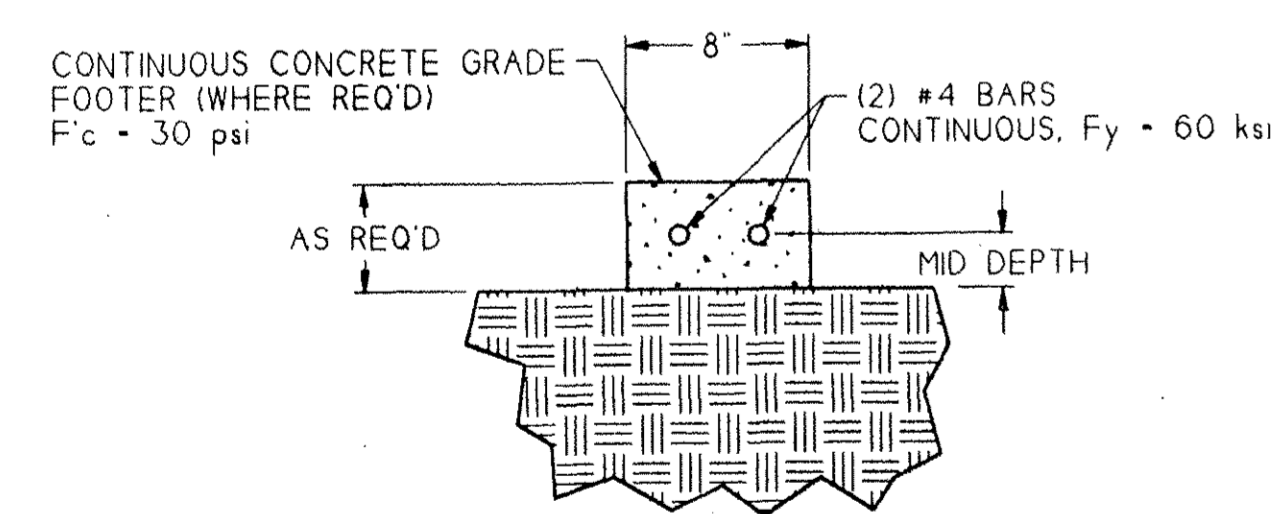
PAD DESIGNATION

TOP NUMBER INDICATES ELEVATIONS (IN DECIMAL FEET) OF TOP OF CENTER COLUMN CONCRETE PADS RELATIVE TO FINISHED ELEVATION OF TOP OF CONCRETE CURB / ASPHALT ALONG GRIDLINE 0.

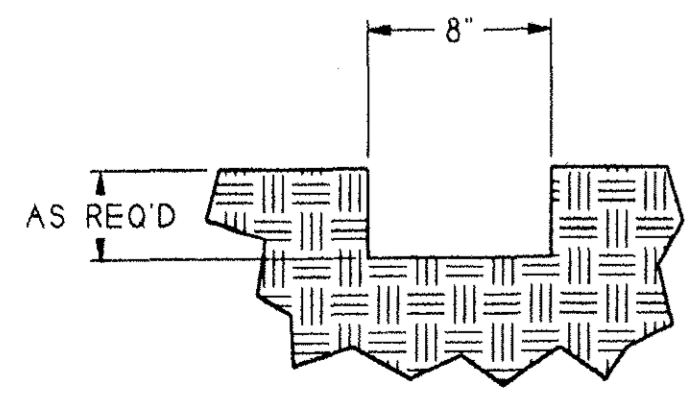
BOTTOM NUMBER IS A REFERENCE AND INDICATES APPROXIMATE POSITION OF T.O.C. RELATIVE TO EXISTING GRADE. (PLUS IS ABOVE GRADE & MINUS IS BELOW GRADE.)

THESE BOLD DIMENSIONS (IN DECIMAL FEET) ARE THE RELATIVE ELEVATIONS OF THE VARIOUS BASEPLATE LOCATIONS PROCEEDING FROM EAST TO WEST.

THESE DIMENSIONS (NON BOLD) ARE GUIDELINES (BASED ON JMG EXCAVATING ELEVATION SURVEY DATA) TO INDICATE AMOUNT OF MATERIAL (IN DECIMAL FEET) TO ADD OR REMOVE AT EACH BASEPLATE LOCATION TO INDICATE LOCATIONS SHOULD ALL BE AT THE SAME ELEVATION. GRIDLINE 0 LOCATIONS SHOULD ALSO BE AT THE SAME ELEVATION, BUT 1'-0" LOWER THAN GRIDLINE A. GRIDLINE I ELEVATIONS HAVE BEEN ADJUSTED TO OPTIMIZE CONCRETE INSTALLATION AND ARE NOT ALL AT THE SAME LEVEL. DIMENSIONS ALONG GRIDLINES I & 40 BASEPLATE LOCATIONS REFLECT A STRAIGHT-LINE SLOPE FROM GRID LINE A TO GRIDLINE 0.



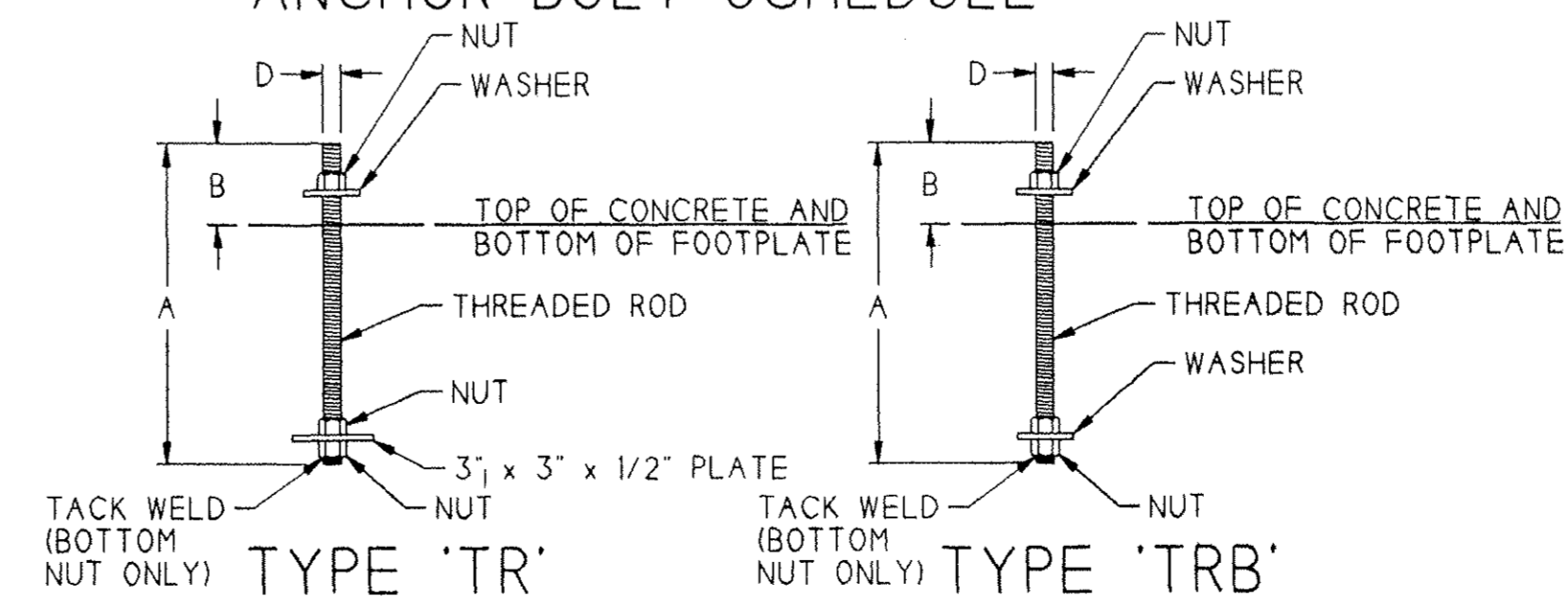
SECTION 'A-A'
TYPICAL ABOVE GRADE CONDITION
30x SCALE
(ROTATED 90°)



SECTION 'B-B'
TYPICAL BELOW GRADE CONDITION
30x SCALE
(ROTATED 90°)

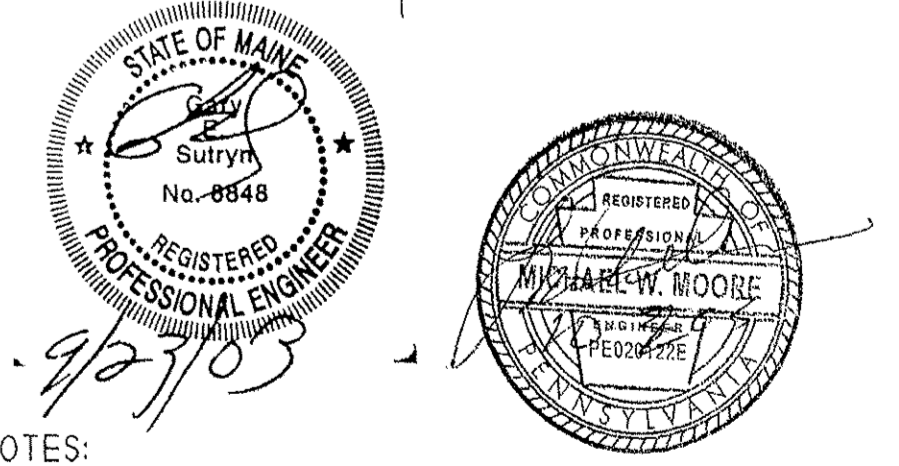
IMPORTANT NOTE:
125 SQUARE FEET (6' x 2'-6") MIN. FOUNDATION CONTINUOUS BEARING AREA UNDER I-BEAM AT EACH SIDEWALL LEG IN GRIDLINES A AND O.
.75 SQUARE FEET (6' x 1'-6") MIN. FOUNDATION CONTINUOUS BEARING AREA UNDER I-BEAM AT EACH ENDWALL COLUMN IN GRIDLINES 1 AND 40.

ANCHOR BOLT SCHEDULE



ANCHOR BOLTS BY OTHERS

MARK	TYPE	BOLT DIA.	'D'	'A'	'B'	'C'	MIN. THREAD 'T'	MAT'L	FINISH	QTY.
7/8"	TR	7/8"	36"	3"	-	-	ALL	A36	PLATED	84
7/8"	TR	7/8"	30"	3"	-	-	ALL	A36	PLATED	36
5/8"	TRB	5/8"	AS REQ'D	3"	-	-	ALL	A36	PLATED	24

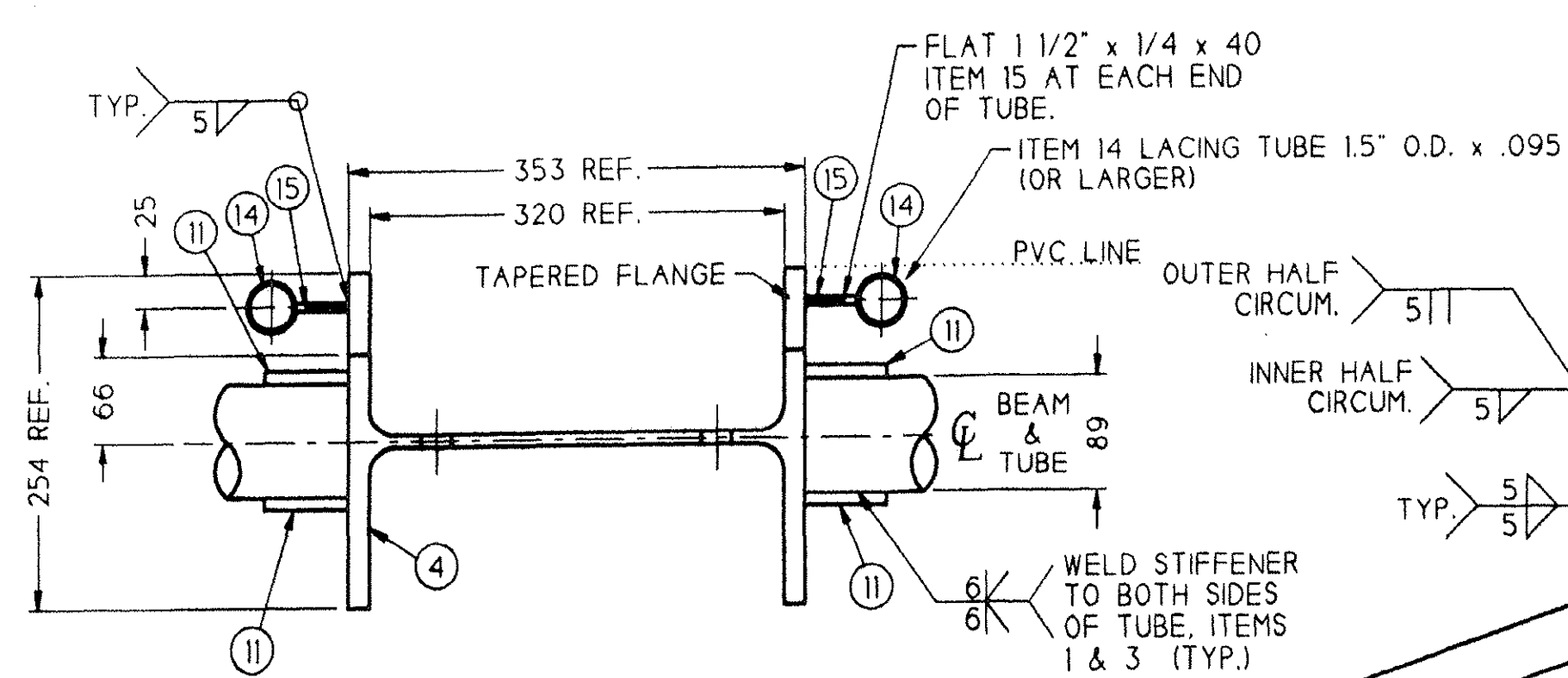


NOTES:
1.) SEE DRAWING #38018 FOR DETAILS NOT SHOWN.
2.) ANCHOR BOLTS, REBAR, GROUND ANCHOR SLEEVES, EMBEDDED ANGLES, PLATES, NUTS, & WASHERS PROVIDED BY JMG.
3.) CONCRETE: f'c = 3000 psi; REBAR: fy = 60000 psi.

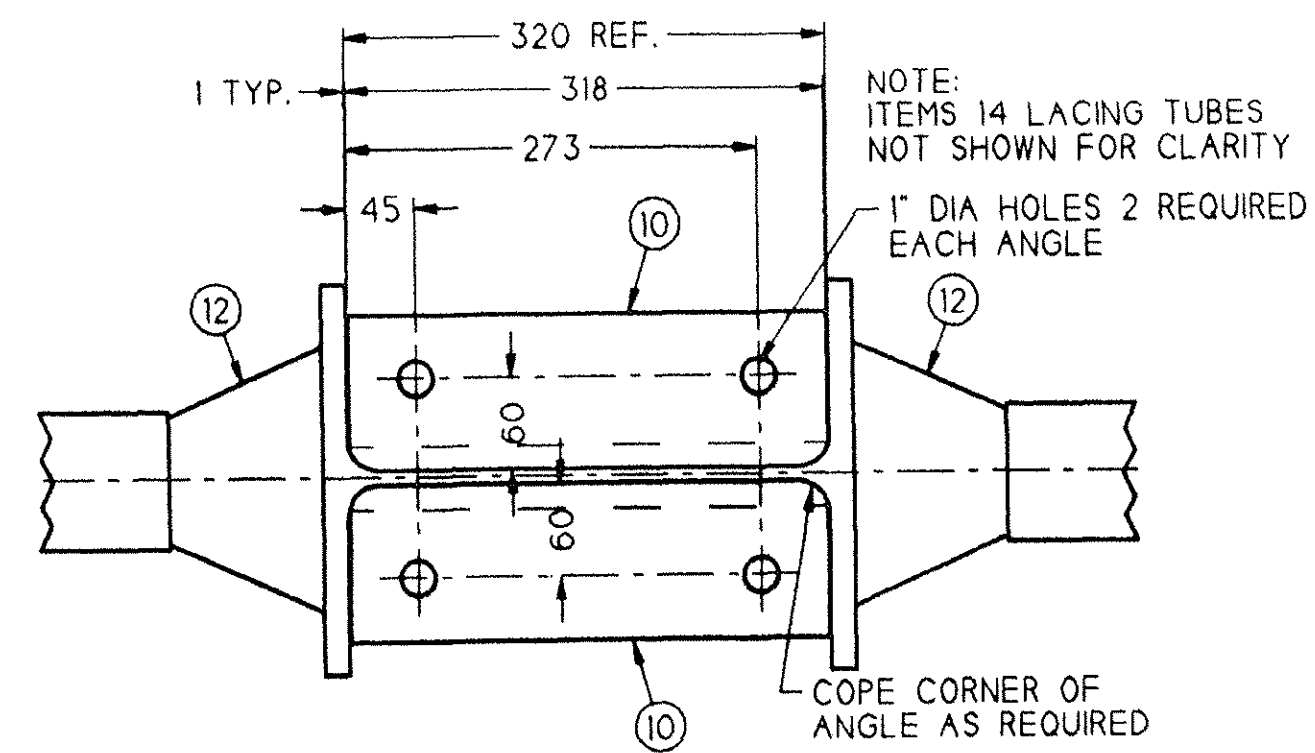
REV.	DESCRIPTION	M/JG	APP.	DATE
A	REVISED FOR CONSTRUCTION	M/JG	GES	9/1/03

We Cover The World
RUBB
 BUILDING SYSTEMS

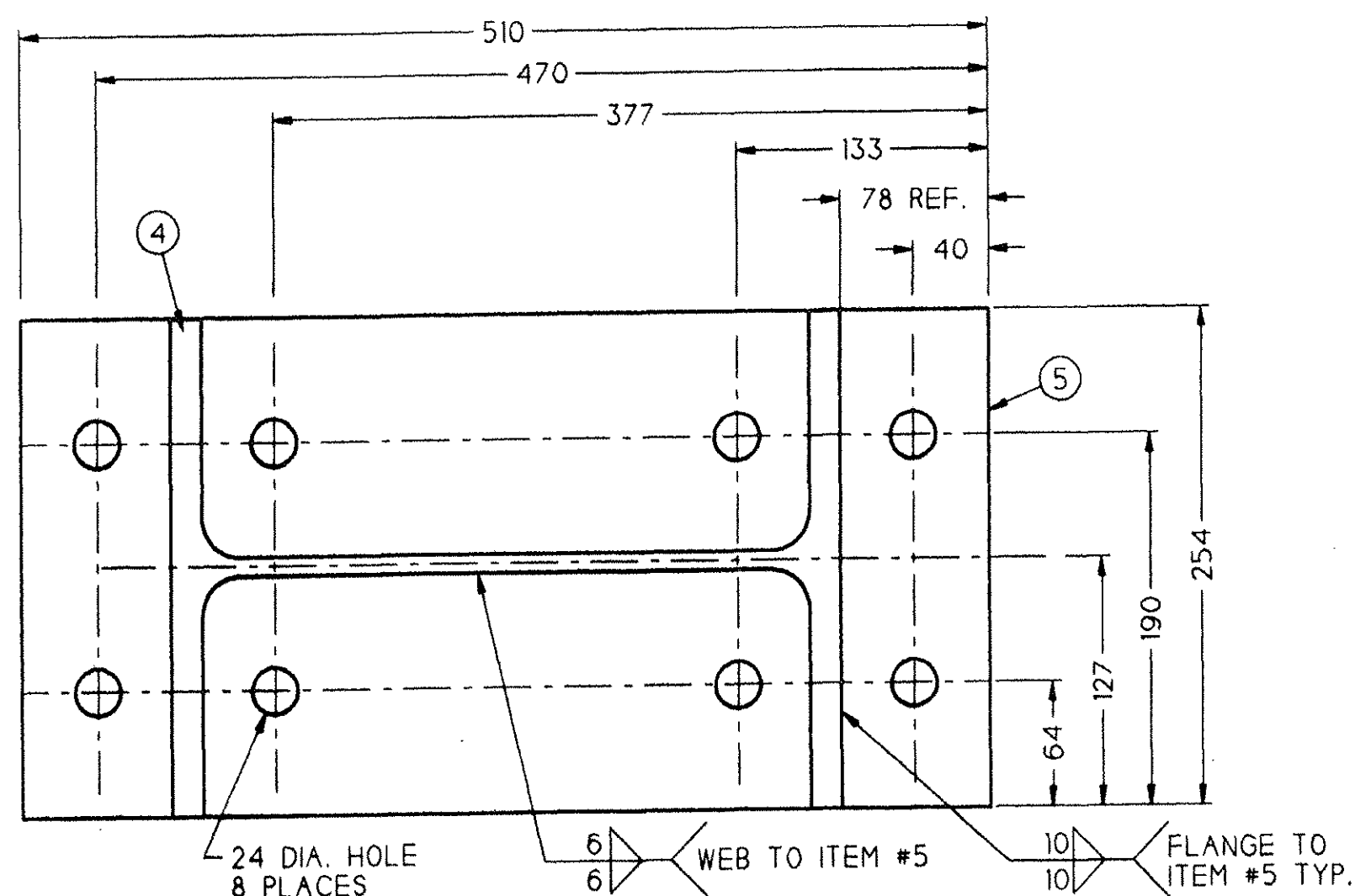
TITLE: 33.5m BVE BILINK / 7m LEG CONCRETE FOUNDATION LAYOUT
 DRAWN: M/JG 9-05-03 SCALE: 1 : 250
 APP: GES 9-09-03 JOB #: 03088
 DATE: JMG
 RUBB, INC. SANFORD MAINE 04073
 TEL: 207-324-2877 FAX 207-324-2347
 DRAWING NO: 38006



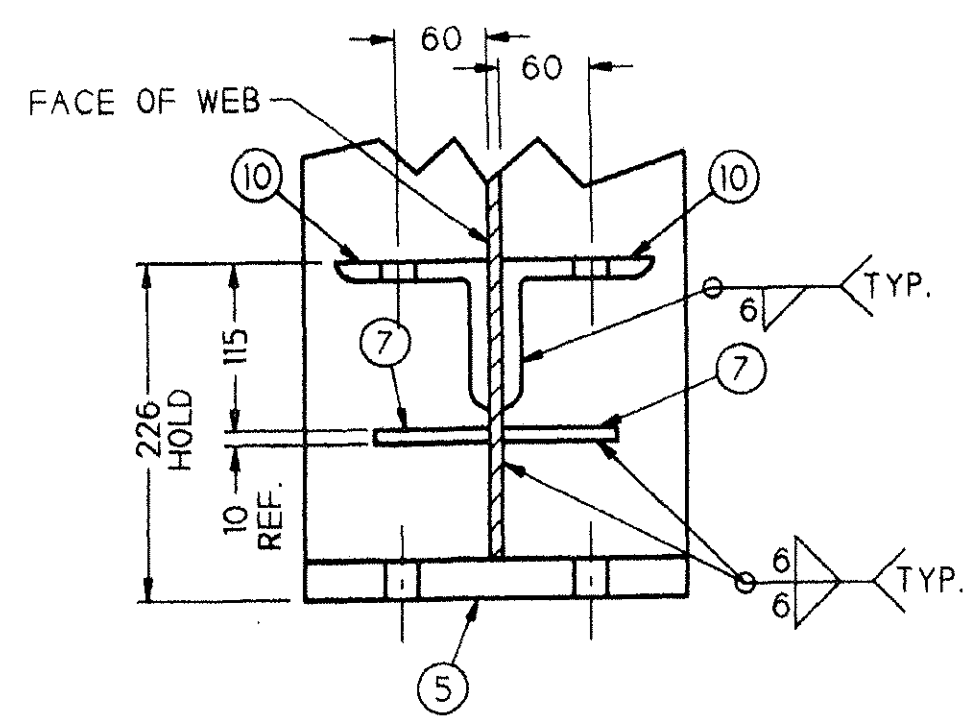
VIEW "C-C"
2X SCALE
CABLE LUGS NOT SHOWN FOR CLARITY



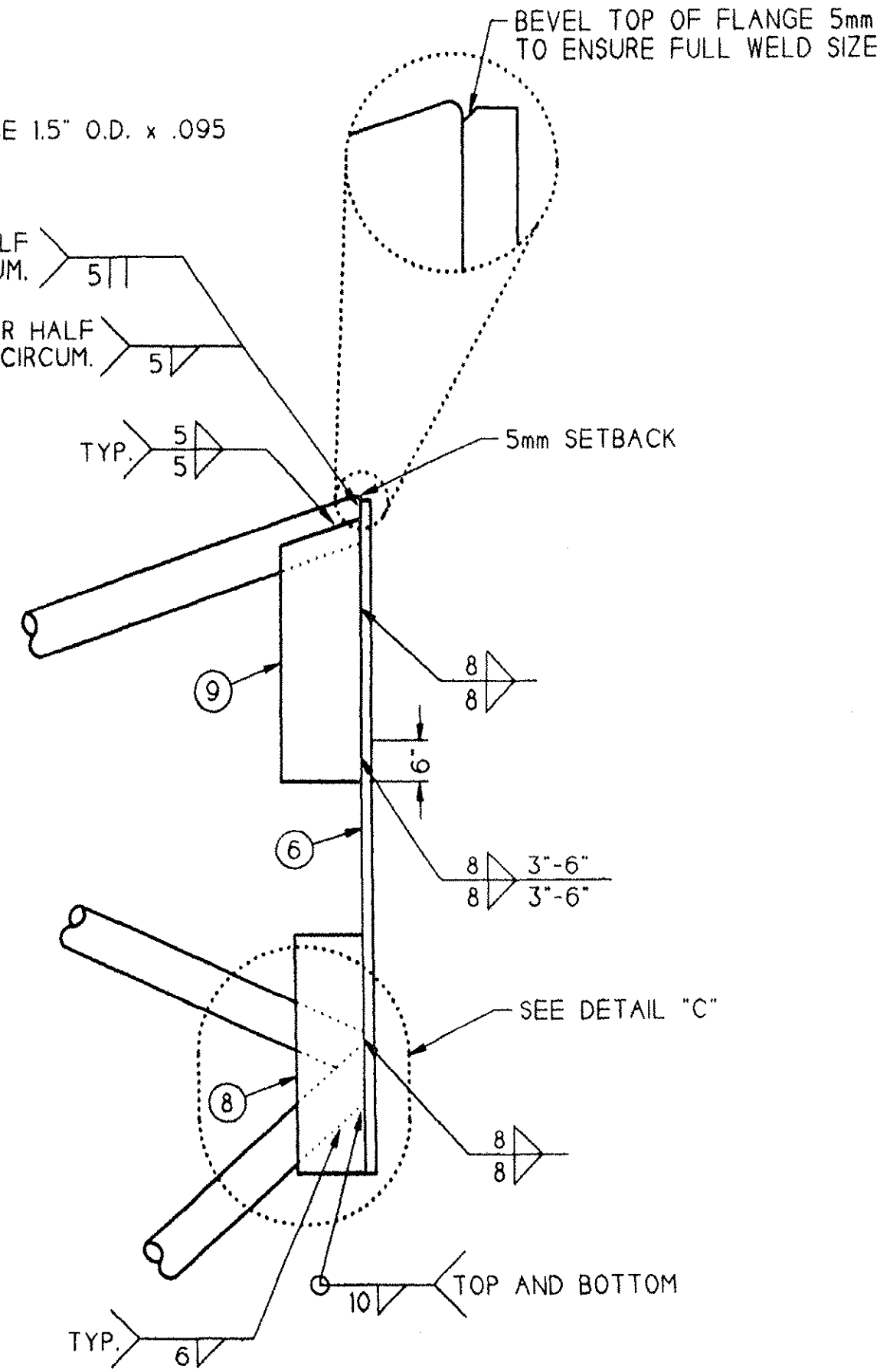
SECTION "A-A"
2X SCALE



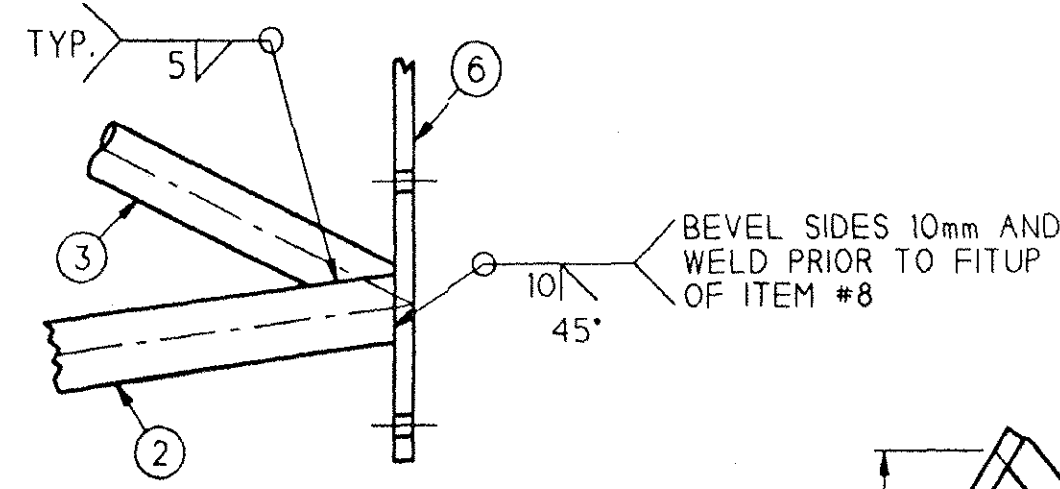
SECTION "D-D"
3x SCALE
CENTER I-BEAM ON PLATE



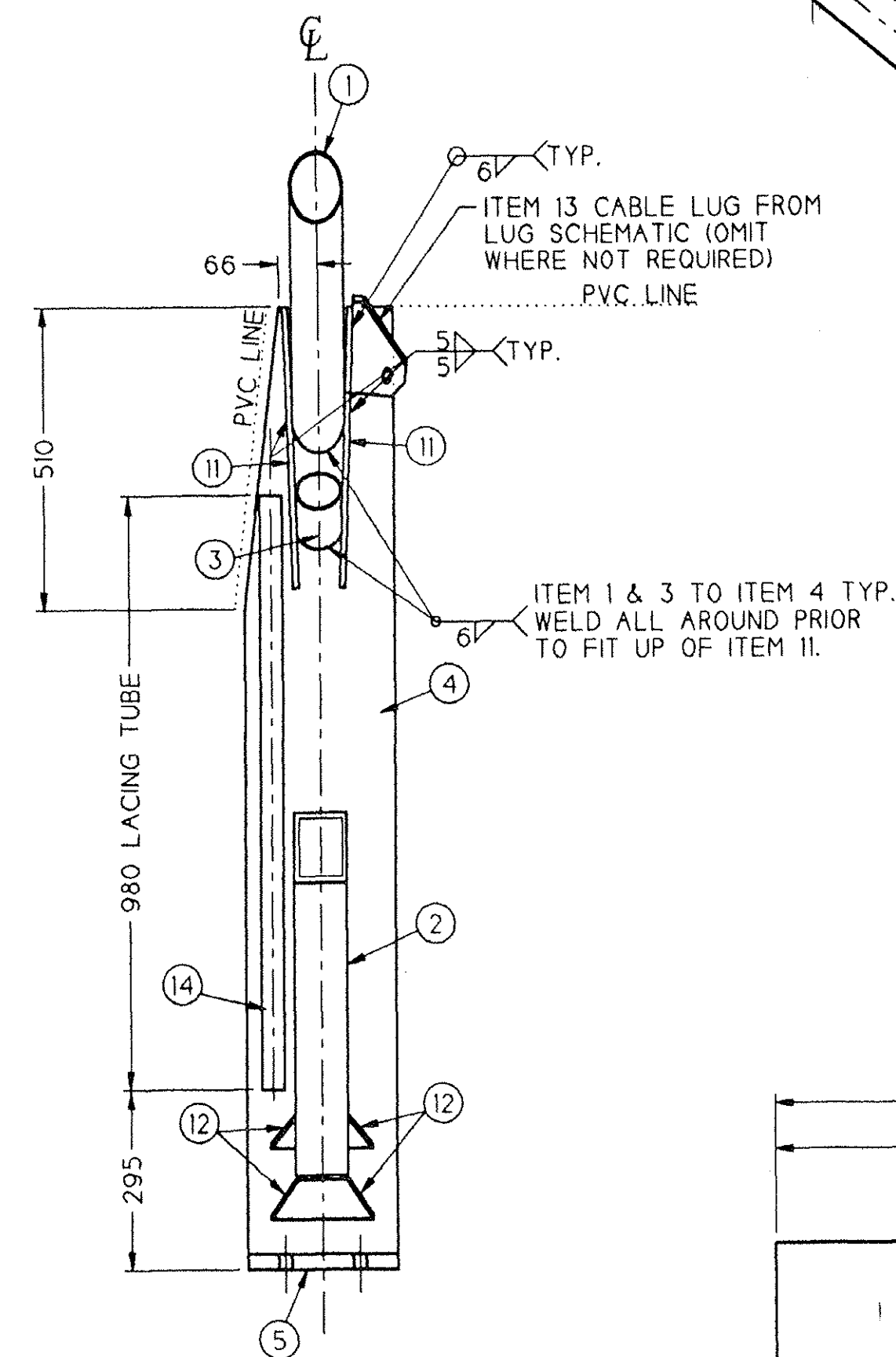
SECTION "B-B"
2x SCALE



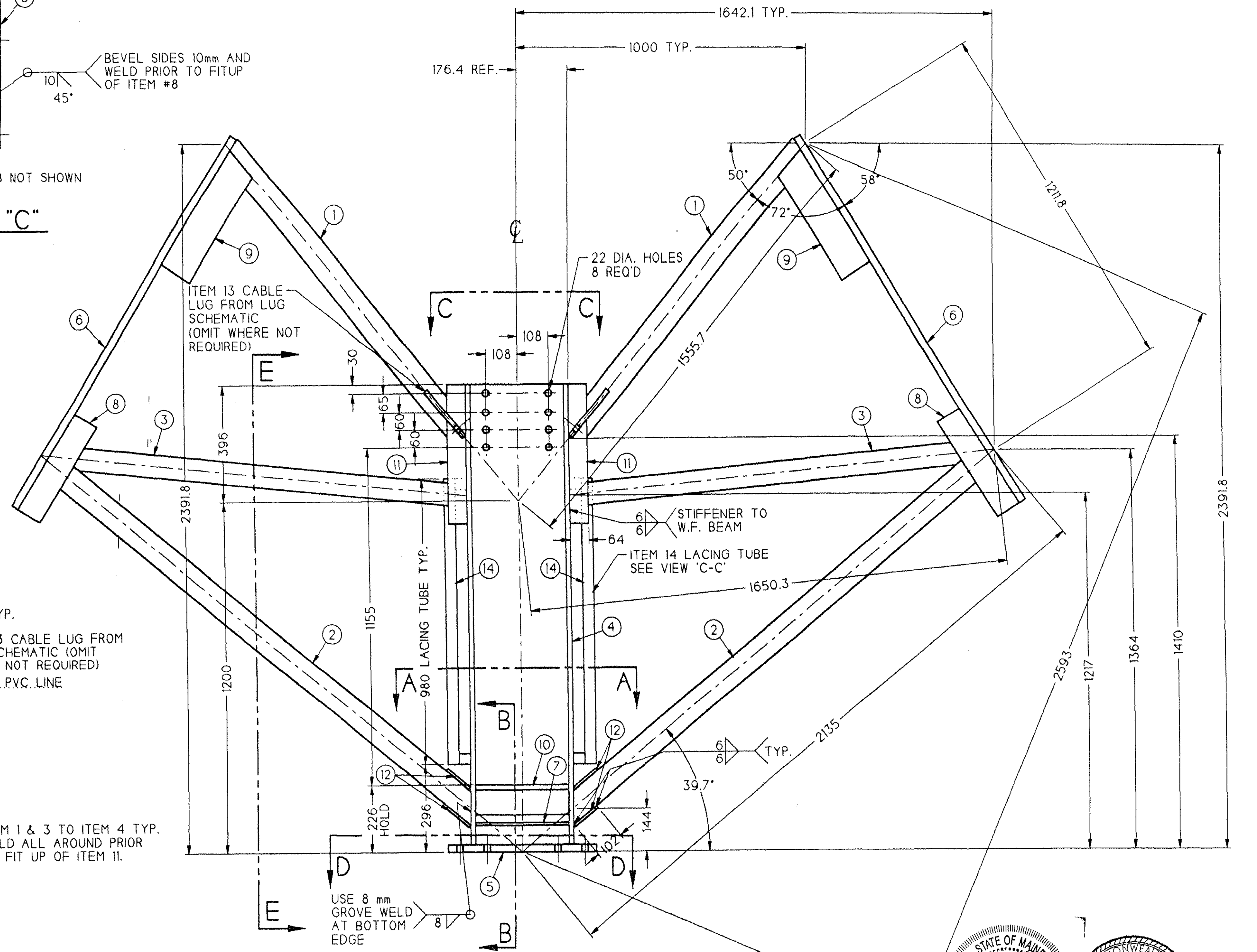
FLANGE & STIFFENER
WELD DETAILS
NOT TO SCALE



DETAIL "C"

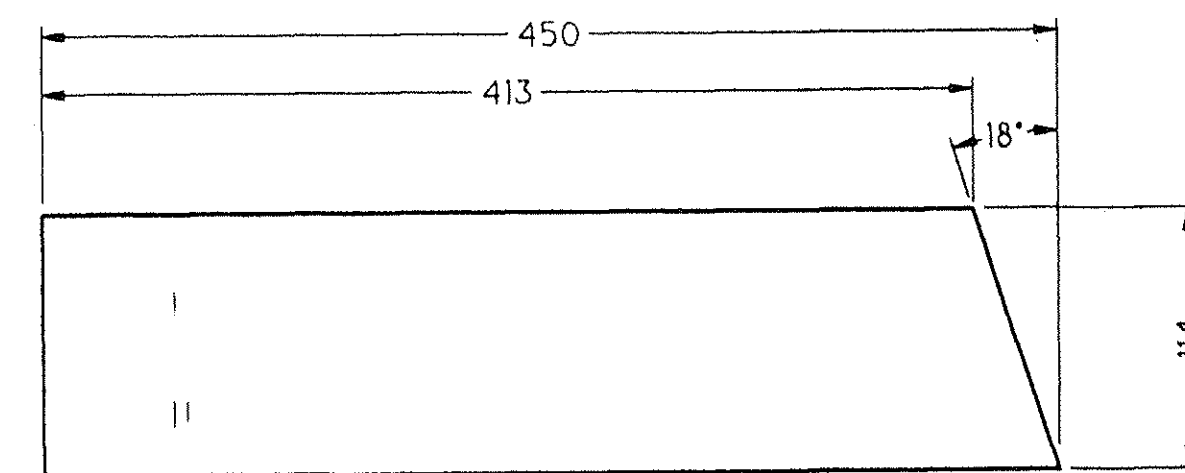


SECTION "E-E"

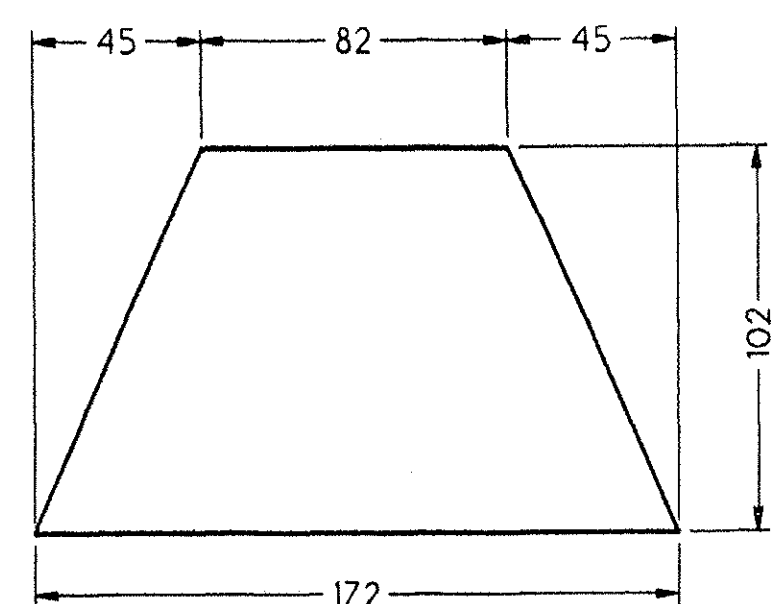


GABLE DOUBLE YOKE ASSEMBLY

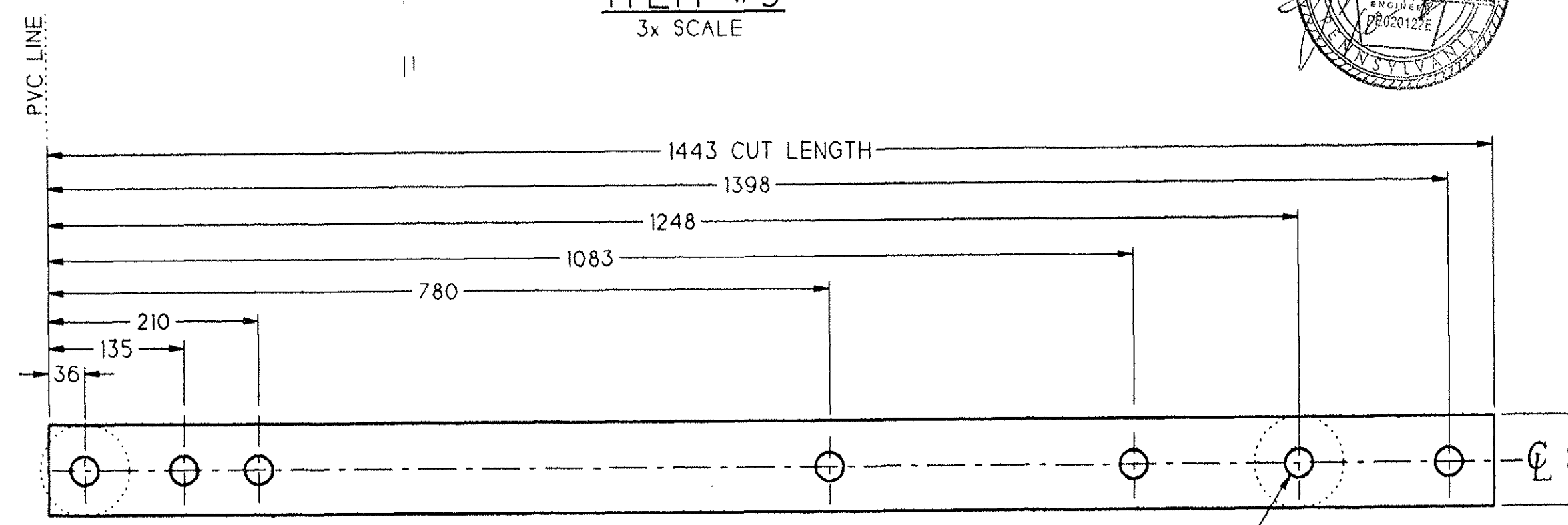
VIEW ON INSIDE
ASSY G6F SHOWN (1 REQ'D)
ASSY G6R IDENTICAL (1 REQ'D)
SEE LUG SCHEMATIC FOR ADDITIONAL LUGS NOT SHOWN



ITEM #9
3x SCALE



ITEM #12
5x SCALE

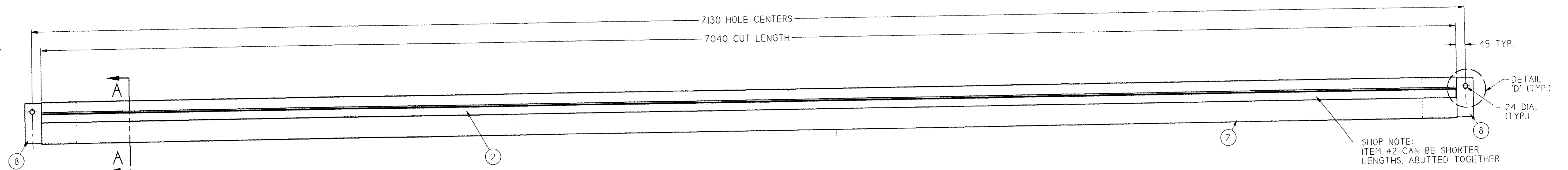


ITEM #6
2x SCALE

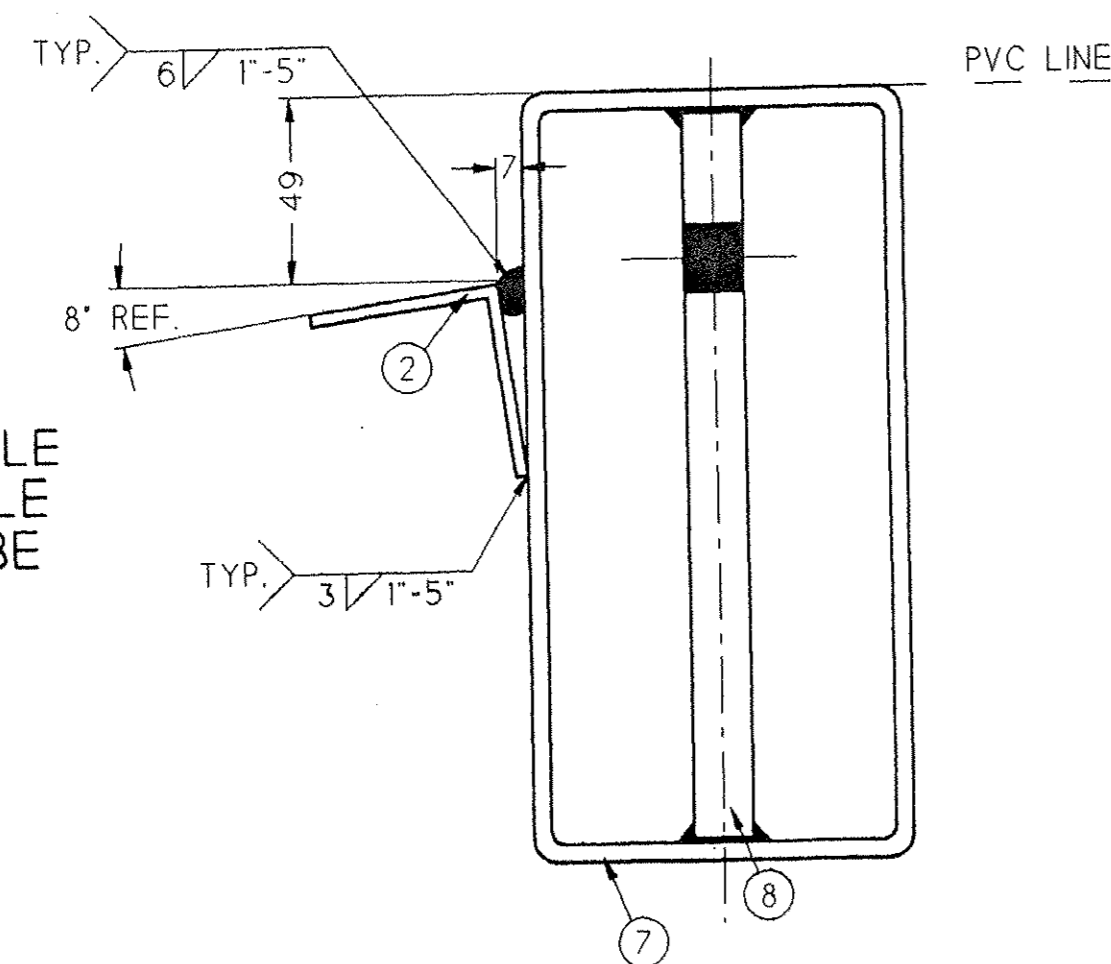
ITEM	QTY.	DESCRIPTION	SPEC.	MIN. YIELD
1	2	TUBE 3 1/2" DIA. x 0.188"	A500	50 ksi
2	2	TS 3 1/2" x 3 1/2" x 3/8"	A500	50 ksi
3	2	TUBE 3" DIA. x 0.188"	A500	50 ksi
4	1	W 14 x 61 x 1570	A572	50 ksi
5	1	FLAT 10" x 1" x 510	A36	36 ksi
6	2	FLAT 3 1/2" x 1" x 1443	-	42 ksi
7	2	FLAT 3" x 3/8" x 318	A36	36 ksi
8	4	FLAT 3 1/2" x 3/8" x 380	-	42 ksi
9	4	FLAT 4 1/2" x 1/2" x 450	-	42 ksi
10	2	ANGLE 4" x 4" x 5/8" x 318	A36	36 ksi
11	4	FLAT 2 1/2" x 3/8" x 475	A36	36 ksi
12	4	FLAT 4" x 3/8" x 172	A36	36 ksi
13	-			
14	2	TUBE 1.5" O.D. x .095 x 850	A500	50 ksi
15	4	FLAT 1 1/2" x 1/4" x 40	A36	36 ksi

- NOTES:
- BREAK SHARP CORNERS FOR PVC.
 - SEE DRAWING 11006 FOR GENERAL WELD NOTES.
 - BILL OF MATERIAL IS FOR ONE ASSEMBLY.
 - SEE STEEL LAYOUT FOR LOCATION.
 - DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.
 - VENT ALL TUBES AS REQUIRED FOR GALVANIZING.
 - SEE DRAWING #37879 FOR MID & TRANSITION UPPER CENTER COLUMNS.

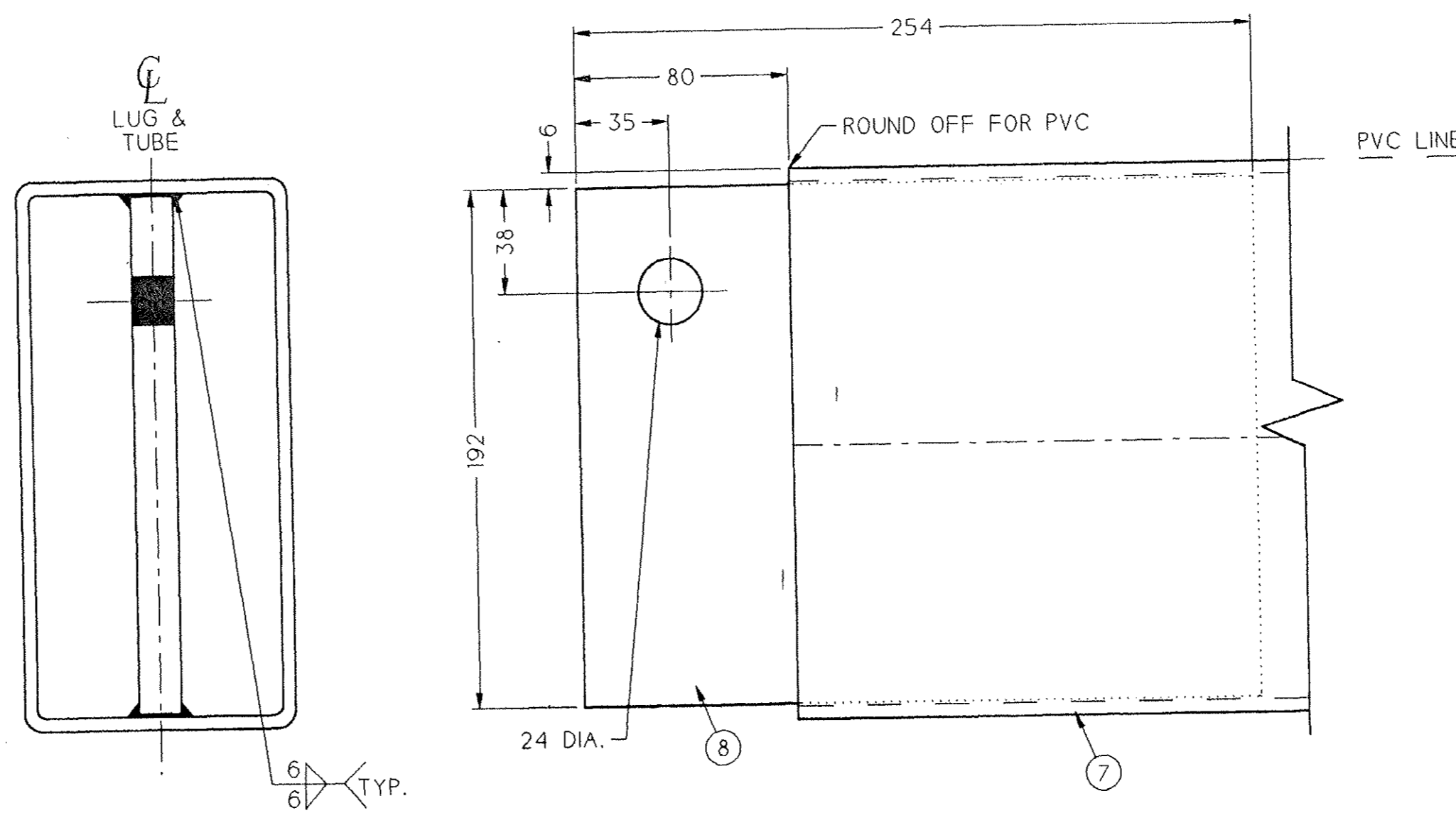
REV.	DESCRIPTION	DRAWN	APP.	DATE
	W RUBB BUILDING SYSTEMS			
	33.5m BVE BILINK / 7m LEG GABLE DOUBLE YOKE ASSEMBLY			
	MRB 9/11/03		1 : 10	
	APP: BES 9/11/03		03088	
	DATE	JMG		
RUBB, INC. SANFORD MAINE 04073 TEL: 207-324-2877 FAX: 207-324-2347				DRAWING NO. 38011



A33 - 24° VALLEY ROOF LONGITUDINAL
W/ STEEL CLADDING ATTACHMENT



SECTION "A-A"
WELDING DETAILS
5x SCALE



DETAIL "D"
WELDING DETAILS
5x SCALE



- NOTES:
- 1.) BREAK SHARP CORNERS FOR PVC.
 - 2.) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
 - 3.) BILL OF MATERIAL IS FOR ONE ASSEMBLY OF EACH.
 - 4.) SEE PURLIN PROFILES FOR LOCATION.
 - 5.) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.
 - 6.) VENT ALL TUBES AS REQUIRED FOR GALVANIZING.
 - 7.) ALL A500 MATERIAL TO BE F_y - 50 KSI MINIMUM.

ITEM	QTY.	DESCRIPTION	SPEC.
1	-	-	-
2	1	ANGLE 2" x 2" x 1/8" x 7040	A36
3	-	-	-
4	-	-	-
5	-	-	-
6	-	-	-
7	1	TS 8" x 4" x 3/16" x 7040	A500
8	2	FLAT 10" x 5/8" x 192	A36

REV.	DESCRIPTION	DRAWN	APP.	DATE
1	We Cover The World			
2	RUBB BUILDING SYSTEMS			
3	MRB 8/19/03			
4	9/23/03			
5				
6				
7				
8				

33.5m BVE BILINK / 7m LEG VALLEY ROOF LONGITUDINAL 24'-0" BAYS

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RUBB, INC. SANFORD MAINE 04073
TEL: 207-324-2877 FAX 207-324-2347

DRAWING NO. 38036

BEFORE WELDING:

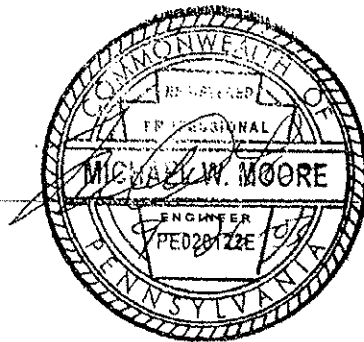
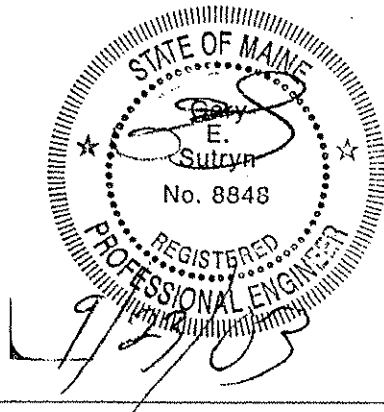
- A) CLEAN AREAS TO BE WELDED OF EXCESSIVE DIRT, GREASE AND MILL SCALE WITH SOLVENT, WIRE BRUSH OR GRINDER.
- B) INSPECT FIT UPS FOR TIGHTNESS AND CORRECT DIMENSIONS.

AFTER WELDING:

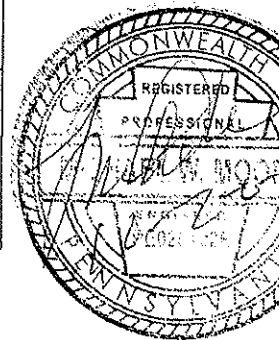
- A) REMOVE SLAG.
- B) VISUALLY INSPECT FOR SOUNDNESS, EXCESSIVE SPATTER AND POROSITY.
- C) CHECK WELD SIZE WITH WELD GAGE.

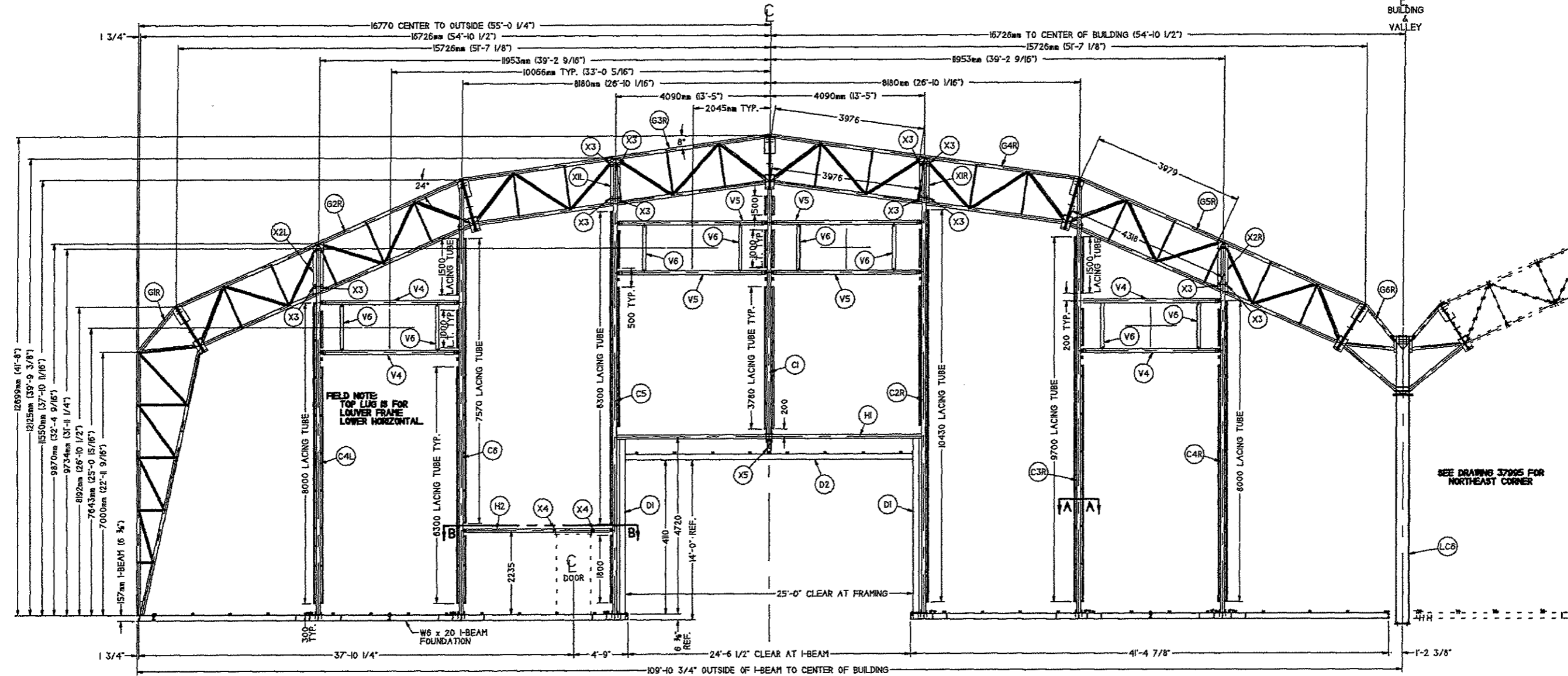
WELD ELECTRODE:

- A) USE LINDE 85 OR LINCOLN WELD L-54.



REV.	DESCRIPTION	DRAWN	APP.	DATE
	We Cover The World RUBB BUILDING SYSTEMS	TITLE GENERAL WELDING NOTES		
DRAWN GES 7-1-94	SCALE NONE	This drawing is the property of Rubb, Inc. and may not be reproduced or used for any manufacturing purpose without the express written consent of Rubb, Inc.		
APP.	JOB # STANDARD			
DATE	JOB NAME STANDARD			
RUBB, INC. SANFORD MAINE 04073 TEL: 207-324-2877 FAX 207-324-2347		DRAWING NO. 11006		



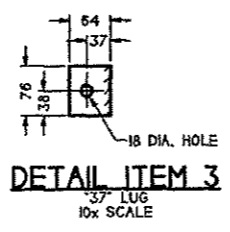
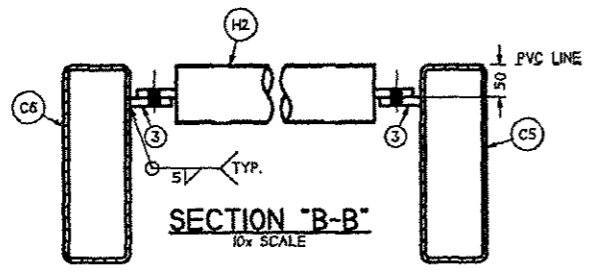
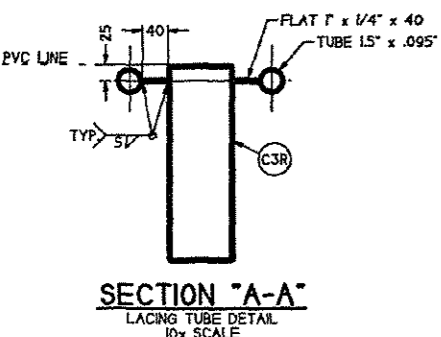


REAR GABLE STEEL (NORTHWEST)

VIEW ON INSIDE

UNCONTROLLED

- NOTES:
- 1) BREAK SHARP CORNERS FOR PVC.
 - 2) SEE DRAWING 1006 FOR GENERAL WELD NOTES.
 - 3) BILL OF MATERIAL IS FOR THIS QUARTER GABLE ONLY.
 - 4) DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.
 - 5) VENT ALL TUBES AS REQUIRED FOR GALVANIZING.
 - 6) ALL A500 MATERIAL TO BE Fy = 50 ksi MINIMUM.



ITEM	QTY.	DESCRIPTION	SPEC.
1	1		
2	1		
3	2	FLAT 2 1/2\" x 3/8\" x 76	A36
4			
5			
6			
7			
8			

ASSY.	QTY.	DESCRIPTION	DRAWING
G1R	1	REAR GABLE LEG TRUSS	37856
G2R	1	REAR GABLE LOWER ROOF TRUSS	37857
G3R	1	REAR GABLE UPPER ROOF TRUSS	37858
G4R	1	REAR GABLE UPPER ROOF TRUSS	37858
G5R	1	REAR GABLE VALLEY ROOF TRUSS	37949
G6R	1	REAR GABLE UPPER CENTER COLUMN	37981
C1	1	CENTER COLUMN	37981
C2	1	INNER MID-ROOF COLUMN w/ ACCESS DOOR	37982
C3	1	INTERMEDIATE APEX COLUMN	37983
C4	1	OUTER MID-ROOF COLUMN	37984
C5	1	INNER MID-ROOF COLUMN w/ ACCESS DOOR	37988
C6	1	INTERMEDIATE APEX COLUMN w/ ACCESS DOOR	38023
D1	2	ROLLER SHUTTER DOOR SIDE TRIMMER	37985
D2	1	ROLLER SHUTTER DOOR TOP TRIMMER	37985
H1	1	ROLLER SHUTTER DOOR HEADER	37985
H2	1	ACCESS DOOR HEADER	37882
L1	1	LOWER CENTER COLUMN	37905
X1	1	INNER MID-ROOF CONNECTION PLATE	38013
X2	1	OUTER MID-ROOF CONNECTION PLATE	38013
X3	1	MID-ROOF CONNECTION ANGLE	38013
X4	2	ACCESS DOOR HEADER CLAMP	38024
X5	1	ROLLER SHUTTER DOOR TOP TRIMMER BRACE	37985
V4	4	OUTER LOUVER HORIZONTAL	37972
V5	4	INNER LOUVER HORIZONTAL	37972
V6	8	LOUVER VERTICAL	37972

REV.	DESCRIPTION	DRAWN	APP.	DATE
A	REVISED TO FIX G6R DWG. #			

We Cover The World
RUBB
 BUILDING SYSTEMS

33.53m RVE BLNK / 7m LEG
 REAR GABLE STEEL (NORTHWEST)
 25' x 14' DOOR OPENING

M/JG 9-20-03
 AR 9-22-03
 JMG

RIBB, INC. SANFORD HANE 04073
 TEL: 207-324-2577 FAX 207-324-2347

37863