



**SPOKANE TRANSIT
1230 W. BOONE AVENUE
SPOKANE, WA 99201**

**SPECIFICATIONS
SPRAGUE LINE HPT - PHASE 2
PROJECT #2025-11062**

ISSUE DATE: March 14th, 2025



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END OF SECTION 00

SECTION 001100 – ADVERTISEMENT FOR BIDS

ADVERTISEMENT FOR BIDS

Sealed bids will be accepted for the following project:

Project No.: 2025-11062
Project Title: Sprague Line – Phase 2
Agency: Spokane Transit Authority (STA)
1230 W Boone Ave.
Spokane, WA 99201
Project Manager: Ryan Brodwater
Capital Projects Manager
rbrodwater@spokanetransit.com
(509) 343-1693
Public Bid Opening: 11:00 AM, April 15, 2025
Spokane Transit Authority
1230 W. Boone Avenue, Spokane, WA 99201
Pre-Bid Walk-through: 11:00 AM, March 25, 2025
Spokane Transit Authority
1230 W. Boone Avenue, Spokane, WA 99201
Project Summary: This local and state funded public works project consists of street and sidewalk improvements for new and existing bus stops and amenity installation at Valley Transit Center. Work for this project includes traffic control, demolition, grading, concrete footings and flatwork, reinforced concrete platforms, electrical, landscaping, signage, and stop amenities installation.

Please direct all questions regarding this project to the Project Manager stated above.

Bidders may obtain electronic copies of plans and specifications from the Project Manager. Plans and specifications may be also be viewed at several local and regional plan centers.

State of Washington prevailing wage rates are applicable for this public works project located in Spokane County. Bidders are responsible to verify and use the most recent prevailing wage rates. The “Effective Date” for this project is the Bid Form due date above. The applicable prevailing wage rates may be found on the Department of Labor & Industries website located at:

<https://fortress.wa.gov/lni/wagelookup/prvWagelookup.aspx>.

No Bidder may withdraw their bid after the bid due date and time unless contract award is delayed for a period exceeding ninety (90) days.

The Agency reserves the right to accept or reject any or all bids and to waive informalities in the solicitation process.

Use of Minority and Women's Business Enterprise (MWBE) contractors and suppliers is encouraged, but not mandatory. Bidders may contact the Office of Minority and Women's Business Enterprise at <http://OMWBE.wa.gov/> to obtain information on certified firms. Bidders may also utilize Veteran-owned Businesses at <http://www.dva.wa.gov/program/certified-veteran-and-servicemember-owned-businesses>.

Spokane Transit Authority is an Equal Employment Opportunity (EEO) organization which does not discriminate on the basis of race, color, creed, national origin, sex, sexual orientation, gender identity, or presence of any sensory, mental or physical disability in the consideration of contract award. The successful Bidder will be required to comply with all federal, state and local EEO laws and regulations.

Spokane Transit Authority assures nondiscrimination in accordance with Title VI of the Civil Rights Act of 1964. For more information, visit www.spokanetransit.com.

Upon request, alternative formats of this information will be produced for individuals with disabilities. The public bid opening facility is accessible for individuals using wheelchairs. For other accommodations, please call (509) 325-6094 (TTY WA Relay 711) at least forty-eight (48) hours in advance.

END OF SECTION 001100

SECTION 002100 – INSTRUCTIONS TO BIDDERS

DEFINITIONS

- A. **Addenda** are written or graphic instruments, approved and issued by the Owner prior to the time designated for opening of bids, which amend, modify or interpret the solicitation documents by identifying additions, deletions, clarifications or corrections.
- B. **Alternate** or **Alternate Bid** is the amount stated in the Bid to be added or deducted from the amount of the Base Bid if the corresponding change in project scope or materials or methods of construction described in the solicitation documents is accepted.
- C. **Architect, Engineer** or **A/E** means a person or entity lawfully entitled to practice architecture or engineering, representing Owner within the limits of its delegated authority.
- D. **Base Bid** is the sum stated in the Bid for which the Bidder offers to perform the work described as the Base, to which work may be added or deducted from sums stated in Alternate Bids (if any).
- E. **Bid** is the submission of a complete and properly signed Bid Proposal Form together with a bid guarantee, when applicable, and the certifications and representations required to comply with this solicitation.
- F. **Bidder** is one who submits a Bid for a Contract with the Owner for the Work described in the construction documents.
- G. **Bid Proposal Form** is the form provided in Section 004213 of this solicitation.
- H. **Contract** is the formal written executed agreement between Owner and Contractor authorizing Contractor to perform the Work in accordance with the Contract Documents.
- I. **Contractor** is the Bidder who has been awarded a Contract to perform the Work in accordance with the Contract Documents.
- J. **Contract Documents** means the Advertisement for Bids, Instructions to Bidders, executed Bid Proposal Form and Bidder certifications, Contract, General Conditions, Modifications to the General Conditions, Supplemental Conditions, Federal Terms & Conditions, Drawings, Specifications, any addenda and/or modifications thereof, any or all supporting documentation required by the above, special forms, or as requested by Owner.
- K. **Federal Assistance** means project funding provided, in whole or in part, by the US Department of Transportation, Federal Transit Administration (“FTA”).
- L. **Non-responsive Bid** means any Bid which fails to conform in all respects to the material requirements of this solicitation, imposes conditions which would modify requirements of this solicitation, or would limit a Bidder's liability to the Owner so as to give the Bidder an advantage over other Bidders as determined by the Owner.
- M. **Owner** means the Spokane Transit Authority, “STA” or its authorized representative with the authority to enter into, administer and/or terminate the Work in accordance with the Contract Documents, and make related determinations and findings.
- N. **Responsible Bidder** means a contractor who meets the criteria listed in RCW 39.04.350.
- O. **Unit Price** is an amount stated in the Bid as a price per unit of measurement or materials or services as described in the construction documents as defined in the General Conditions of the Contract.

PART 1 - GENERAL

1.1 INTRODUCTION

- A. Scope of Work. The general description and scope of work for the project can be found in Section 003100 of this solicitation.
- B. Schedule. Work may begin when the Contractor receives a formal “Notice to Proceed.” Contractor shall proceed with promptness and dispatch and shall complete the project within **150** calendar days beginning on the day of commencement as stated in a Notice to Proceed.
- C. Public Records. Materials submitted in response to this competitive procurement shall become the property of Spokane Transit Authority. All received Bids shall be deemed public records as defined in Chapter 42.56 RCW *Public Records Act*. Any information in the Bid that the Bidder desires to claim as confidential and exempt from disclosure under the provisions of state law shall be clearly designated as “Confidential”. Each page claimed to be exempt from disclosure must be clearly identified by the word “Confidential” printed on it. Marking the entire Bid exempt from disclosure will not be honored. STA will consider a Bidder’s request for exemption from disclosure; however, STA will make a decision predicated upon state law and regulations. If any information is marked as Confidential in the Bid, it will not be made available until the affected Bidder has been given a reasonable opportunity to seek a court injunction against the requested disclosure. STA assumes no liability for disclosure of Confidential material submitted by Bidders. Bid submittals shall be considered public documents under applicable Washington state law and shall be available for inspection and copying by the public, except to the extent portions of the submittals are otherwise protected under applicable law. Each Bidder will be responsible for protecting any disclosure of its submittal under applicable law.
- D. Request for Information. Any prospective Bidder desiring an explanation or interpretation of this solicitation, drawings, specifications, etc., must submit a request in writing to the A/E seven (7) calendar days before the bid due date. Oral explanations or instructions given before the award of Contract will not be binding. Any information given a prospective Bidder concerning a solicitation will be furnished promptly to all other prospective Bidders by addendum to the solicitation, if that information is necessary in submitting bids or if the lack of it would be prejudicial to other prospective Bidders.
- E. Disadvantaged Business Enterprise. STA is committed to ensuring that all firms regardless of race, color, sex or national origin have equal opportunity to participate in STA contracts. Therefore, STA has established an annual agency goal for Disadvantaged Business Enterprise (DBE) participation in its contracting opportunities. In accordance with the legislative findings and policies set forth in Chapter 39.19 RCW, STA encourages participation in all of its contracts by Minority Business Enterprises (MBE), Women Owned Business Enterprise (WBE), and Minority Women Owned Business Enterprise (MWBE) firms certified by the Office of Minority and Women’s Business Enterprises (OMWBE). Participation may be either on a direct basis in response to this solicitation or as a subcontractor to a contractor submitting bids. However, unless required by federal statutes, regulations, grants or contract terms referenced in the Contract Documents, no preference will be included in the evaluation of Bids, no minimum level of DBE/MBE/WBE/MWBE participation shall be required as a condition for receiving an award, and Bids will not be rejected or considered non-responsive on that basis. Any affirmative action requirements set forth in federal regulations or statutes included or referenced in the Contract Documents will apply.

1.2 PREPARATION OF BIDS – CONSTRUCTION

- A. Bids must be: (1) submitted on the Bid Proposal Form, or copies thereof, furnished by Owner or Owner's agent, and (2) signed in ink. The person signing a Bid must initial each change appearing on any Bid Proposal Form. If the Bid is made by a corporation, it shall be signed by the corporation's authorized designee. The address of the Bidder shall be typed or printed on the bid form in the space provided.
- B. The Bid Proposal Form may require Bidders to submit bid prices for one or more items on a varying basis, including: (1) lump sum base bid; (2) lump sum bid alternate prices; (3) unit prices; or (4) any combination of items 1 through 3 above.
- C. If the solicitation includes alternate bid items, failure to provide a price on any Alternates may disqualify the Bid. If bidding on all items is not required, Bidders should insert the words "No Bid" in the space provided for any item on which no price is submitted.
- D. Substitute bid proposals will not be considered unless this solicitation authorizes their submission.

1.3 BID PRICES

- A. The bid prices shown for each item on the Bid Proposal Form shall include all labor, material, equipment, overhead and compensation to complete all of the work for that item.
- B. The actual cost of building permit (only) and the public utility hookup fees will be a direct reimbursement to the Contractor or paid directly to the permitting agency by the Owner. Fees for these permits should not be included by the Bidder in the bid amount.
- C. The Bidder agrees to hold all Bid prices for ninety (90) days from date of bid opening.

1.4 ADDITIVE OR DEDUCTIVE BID ITEMS

- A. The low Bidder, for purposes of award, shall be the responsive Bidder offering the low aggregate amount for the Base Bid, plus Alternates selected by the Owner, and within funds available for the project.
- B. The Bidder agrees to hold all Alternate prices for ninety (90) days from date of bid opening.

1.5 TAXES

- A. Bid prices shall include Washington State Sales Tax ("WSST"). However, all other taxes imposed by law shall be included in Bid prices. The Contractor shall remit applicable WSST to the Department of Revenue and shall furnish proof of remittance to the Owner if requested.
- B. NOTE: Contractor must bond for total contract amount including WSST.

1.6 BID GUARANTEE

- A. When the sum of the Base Bid plus all Alternates is \$35,000.00 or less, a bid guarantee is not required. When the sum of the Base Bid plus all Alternates is greater than \$35,000.00, a bid guarantee in the amount of five percent (5%) of the Base Bid amount is required. Failure of the Bidder to provide a bid guarantee when required shall render the Bid non-responsive.

- B. Acceptable forms of bid guarantee are: A bid bond, U. S. postal money order, or certified check or cashier's check made payable to Spokane Transit Authority. The Owner will return bid guarantees (other than bid bond) to unsuccessful Bidders as soon as practicable, but not sooner than the execution of a contract with the successful Bidder. The bid guarantee of the successful Bidder will be returned to the successful Bidder with its official notice to proceed with the Work.
- C. The Bidder will allow ninety (90) days from the bid opening date for acceptance of its Bid by the Owner. The Bidder will return to Owner a signed Contract, insurance certificate and requisite bond(s) or bond waiver within fifteen (15) days after receipt of the Contract. If the apparent successful Bidder fails to sign all contract documents, provide the bond and insurance as required, or return the documents within fifteen (15) days after receipt of the Contract, the Owner may terminate the award of the Contract.
- D. In the event a Bidder discovers an error in its Bid following the bid opening, the Bidder may request to withdraw its Bid under the following conditions:
 - 1. Written notification is received by the Owner within twenty-four (24) hours following bid opening.
 - 2. The Bidder provides written documentation of the claimed error to the satisfaction of the Owner within seventy-two (72) hours following the bid opening.

The Owner will approve or disapprove the request for withdrawal of the Bid in writing. If the Bidder's request for withdrawal of its Bid is approved, the Bidder will be released from further obligation to the Owner without penalty. If it is disapproved, the Owner may retain the Bidder's bid guarantee.

1.7 ACKNOWLEDGEMENT OF ADDENDA

Bidders shall acknowledge receipt of all addenda to this solicitation by identifying the addenda numbers in the space provided for this purpose on the Bid Proposal Form. Failure to do so may result in the bid being declared non-responsive.

1.8 SITE INVESTIGATION AND CONDITIONS AFFECTING THE WORK

- A. The Bidder acknowledges that it has taken steps necessary to ascertain the nature and location of the work, and that it has investigated and satisfied itself as to the general and local conditions which can affect the work or its cost, including but not limited to (1) conditions bearing upon transportation, disposal, handling and storage of materials; (2) the availability of labor, water, electric power and road; (3) uncertainties of weather, river stages, tides or similar physical conditions at the site; (4) the conformation and conditions of the ground; and (5) the character of equipment and facilities needed preliminary to and during the work. The Bidder also acknowledges that it has satisfied itself as to character, quality and quantity of surface and subsurface materials or obstacles to be encountered insofar as this information is reasonably ascertainable from an inspection of the site, including exploratory work done by the Owner, as well as from the drawings and specifications made a part of this solicitation. Any failure of the Bidder to take the actions described and acknowledged in this paragraph will not relieve the Bidder from responsibility for estimating properly the difficulty and cost of successfully performing the work.
- B. If Bidder is unable to attend the scheduled pre-bid meeting, please contact STA to arrange a separate site visit. **Bids submitted by Bidders that have not either attended a pre-bid meeting or inspected the sites in the presence of STA staff may be considered non-responsive.**

1.9 PREVAILING WAGE

- A. The Work for this project constitutes a public work under RCW 39.04 *Public Works*. In accordance with RCW 39.12 *Prevailing Wages on Public Works*, the Contractor shall pay the highest prevailing wage rate by trade or occupation as specified by the State of Washington, Department of Labor and Industries.
- B. If this Project is subject to Federal Assistance, the Contractor shall pay the *greater* of prevailing wages paid in accordance with the Davis Bacon and Related Acts or RCW 39.12 *Prevailing Wages on Public Works*. See Section 007200.1 *Public Works General Conditions*.

1.10 SUBMISSION OF BIDS

- A. Bids must be submitted on or before the time specified in the Advertisement for Bids or as extended by written addenda to this solicitation.
- B. Bids shall be submitted in a sealed envelope addressed to the office specified in the Advertisement for Bids. Oral, telephonic, electronic or facsimile bids are invalid and will not receive consideration. The envelope shall have printed on the outside:
 - 1. The project number and description.
 - 2. The name and address of the Bidder.
 - 3. Identification as Bid Proposal.
- C. Prior to the bid opening, the Owner's representative will designate the official bid clock. Any part of the Bid or Bid modification not received prior to the times specified, per the designated bid clock, will not be considered and the Bid will be returned to the Bidder unopened.
- D. A Bid may be withdrawn in person by the authorized representative of the Bidder before bid opening. The representative of the Bidder will be required to show ID and sign the bid summary sheet before the Bid will be released to Bidder.
- E. Individuals with disabilities who wish to request special accommodation, (e.g., sign language interpreters, Braille, etc.) need to contact the Owner ten (10) working days prior to the scheduled bid opening.

1.11 CONSIDERATION OF BIDS

- A. Owner shall have the right to reject any or all Bids, to reject Bids considered non-responsive, including but not limited to, Bids not accompanied by any required bid guarantee, Bidder certifications or data required by the solicitation, or a Bid not signed by the Bidder's authorized representative.
- B. The Owner shall have the right to waive any informality or irregularity in any Bid received.
- C. In the event that a single Bid is received, Owner will conduct a cost/price analysis of the Bid. This analysis will compare the price and quality of the proposed equipment with that involved in recent similar purchases with similar specifications made by this or other governmental agencies in an attempt to determine the competitive integrity of the submitted Bid.

1.12 BID RESULTS

After the bid opening, Bidders may obtain bid results from the Owner.

1.13 RESPONSIBLE BIDDER

- A. To be considered a “Responsible Bidder”, at the time of Bid submittal, Bidders must meet all requirements specified in Section 004512 *Bidder Responsibility Criteria*.
- B. Supplemental Responsibility Criteria: In addition to the mandatory Bidder responsibility criteria, the Owner may adopt relevant supplemental criteria for determining Bidder responsibility applicable to a project which the Bidder must meet. Where applicable, such supplemental criteria shall be attached to this solicitation.
 - 1. At least seven (7) days prior to the bid submittal deadline, a potential Bidder may request the Owner modify the supplemental responsibility criteria. The Owner will evaluate the information submitted by the potential Bidder and respond before the Bid submittal deadline. If the evaluation results in a change of the supplemental responsibility criteria, the Owner will issue an addendum to this solicitation identifying the new and/or modified criteria.
 - 2. Upon Owner’s request, the apparent low Bidder must supply the requested responsibility information within two (2) business days of request by Owner. Withholding information or failure to submit all the information requested within the time provided may render the Bid non-responsive.
 - 3. Upon request of the Owner, a Bidder whose Bid is under consideration for award of Contract shall submit promptly satisfactory evidence of his/her financial resources, experience, organization, and equipment available for performance of the Contract on AIA Form A305 “Contractor’s Qualification Statement” or similar form approved by the Owner.
- C. Not-responsible Bidder Notification.
 - 1. If the Owner determines that the apparent low Bidder is not responsible, the Owner will notify the Bidder of its preliminary determination in writing.
 - 2. Within three (3) days after receipt of the preliminary determination, the Bidder may withdraw its Bid or request a hearing where the Bidder may appeal the preliminary determination and present additional information to the Owner.
 - 3. The Owner will schedule a hearing within three (3) working days of receipt of the Bidder’s request. The hearing members will include a STA Executive or their designee, and Project Manager.
 - 4. The Owner will issue a final determination after reviewing information presented at the hearing.
 - 5. If the Owner determines a Bidder to be not responsible, the Owner will provide, in writing, the reasons for the determination. If the final determination affirms that the Bidder is not responsible, the Owner will not execute a Contract with any other responsible Bidder until two (2) business days following submittal of the final determination to the not responsible Bidder.
 - 6. The Owner’s final determination is specific to this project and will have no effect on other or future projects.

1.14 CONTRACT AWARD

- A. The Owner will evaluate Bid responsiveness and responsibility.

1. A Bid will be considered responsive if it meets the following requirements:
 - a. It is received at the proper time and place.
 - b. It meets the stated requirements of this solicitation.
 - c. It is accompanied by a bid guarantee, when required.
2. A Bid will be considered responsible if it meets the following requirements:
 - a. It is submitted by a licensed/registered contractor within the state of Washington at the time of bid opening and is not banned from bidding on Public Works projects as determined by the Department of Labor and Industries; and
 - b. It meets the mandatory responsibility criteria established in RCW 39.04.350 for prime contractors and subcontractors and an overall accounting of the supplemental responsibility criteria established for the project.
- B. The Owner reserves the right to accept or reject any or all Bids and to waive informalities.
- C. The Owner may negotiate Bid price adjustments with the low responsive Bidder, including changes in the Contract Documents, to bring the Bid within the available funding per RCW 39.04.015.
- D. The apparent low Bidder, for purpose of award, shall be the responsive and responsible Bidder offering the low aggregate amount for the Base Bid plus selected Alternates and meeting all other bid submittal requirements.
- E. The Contract will only become effective when signed by the Owner. Prior to the Owner's signature, any and all costs incurred shall be the sole responsibility of the Bidder.
- F. The Contractor must purchase and maintain insurance coverages as stated in Section 007200.1 *General Conditions*.
- G. Note: AIA Payment Bond and Performance Bond forms (A312) are required. These forms will not be provided by the Owner.

1.15 CONTRACT DOCUMENTS

- A. The Contract Documents under which it is proposed to execute this work consists of all material bound herein, plus any addenda incorporated into the documents.
- B. The Contract Documents are intended to be mutually cooperative and to provide all details reasonably required for the execution of the Work. Any person contemplating the submission of a Bid shall have thoroughly examined all of the various parts of the Contract Documents, and should there be any doubt as to the meaning or intent of the Contract Documents, the Bidder should request in writing to the A/E at least seven (7) working days prior to bid opening, an interpretation thereof. Any interpretation or change in the Contract Documents will be made only in writing, in the form of an addendum to the Contract Documents and will be furnished to all prospective Bidders receiving a set of documents, who shall indicate receipt of same in the space provided on the Bid Proposal Form. The Owner will not be responsible for any other explanation or interpretation of said documents.

1.16 DISCREPANCIES & CONTRACT DOCUMENT REVIEW

- A. The intent of Spokane Transit Authority and Federal Funded Project Contract Documents is to describe a complete Project. These Contract Documents are complimentary. What is required by one part of the Contract Documents shall be binding as if required by all.

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- B. In the event of a discrepancy between Spokane Transit Authority and Federal Funded Project Contract Documents, the Contractor will use the Contract Document that imparts the highest cost to their Bid and/or longest delay in their schedule. It is the responsibility of the Contractor to bring these discrepancies to the attention of the Architect as soon as they are discovered.

1.17 PROTEST PROCEDURES

STA maintains a set of protest procedures. If any Bidder desires this information, it may be obtained by calling STA's Senior Procurement Manager, at (509) 325-6032.

PART 2 - PRODUCTS (Not used)

PART 3 - EXECUTION (Not used)

END OF SECTION 002100

SECTION 003100 – PROJECT DESCRIPTION AND SCOPE OF WORK

PROJECT DESCRIPTION

This local and state funded public works project consists of street and sidewalk improvements for new and existing bus stops and entry improvements to Valley Transit Center. Work for this project includes traffic

control, demolition, grading, concrete footings and flatwork, reinforced concrete platforms, electrical, landscaping, signage, and stop amenities installation.

PROJECT LOCATION

Multiple locations along the Sprague Avenue corridor within City of Spokane and City of Spokane Valley.

PROJECT SCHEDULE

Substantial completion no later than ONE HUNDRED FIFTY (150) DAYS from receipt of the Notice to Proceed.

PROJECT EXCLUSIONS

- ☐ Furnish & installation of bus stop shelter structure and benches
- ☐ Furnish of benches, leaning rails, and trash and recycling containers

- ☐ Furnish and installation of bus stop flag

PROJECT GENERAL SCOPE OF WORK

The project shall generally consist of:

1. Obtain and pay for building and obstruction permits and fees as required for the scope of work. These permit fees will be reimbursable paid to the contractor by STA with no markup, refer to Section 002100 – Instruction Bidders -1.3b
2. All other permits are the responsibility of the contractor, refer to Section 007200.1 – General Conditions – 5.02
3. Perform and coordinate thorough public utility locates to complete the scope of work
4. Generate and submit a Submittal Register for review and approval by STA
5. Furnish, setup, and maintenance of approved traffic control
6. Demolition and grading per plans and specifications
7. Furnish and install bus stop sign posts per plans and specifications
8. Placement of concrete for roadway, sidewalks, and bus stops per plans and specifications
9. Installation of owner-furnished bus stop amenities including but not limited to HPT markers, light poles, leaning rails, and garbage/recycle bins per plans and specifications
10. Remediation of adjacent irrigation and landscaping as required by the scope of work
11. All other work as shown and specified in the contract plans and specifications
12. Contractor responsible for ensuring the safety and security of project work sites as necessary during construction
13. Contractor is responsible for any and all necessary erosion control measures required to complete the scope
14. Contractor responsible for reviewing all plans and specifications applicability to each base bid item of work

PROJECT-SPECIFIC NOTES

- All work shall meet or exceed all applicable codes, utility locating, rules and regulations, as set forth by the City of Spokane, Spokane County and the State of Washington.
- Contractor is responsible for the supply of all equipment, materials and labor, and otherwise do all things necessary for or incidental to completion of the Project.
- Contractor is responsible for making arrangements for staging of materials and equipment, if necessary.
- Contractor shall be responsible for the removal of all trash and waste materials from this project. All items that are disposed of shall be approved by the Project Manager and/or designee. Damages resulting from Contractor negligence shall be repaired immediately at no cost to STA. The Contractor shall take all precautions necessary to protect private property and the public during the construction period.
- All work will be subject to inspection and acceptance by STA's project manager or their designee prior to payment.
- STA reserves the right to increase or decrease the amount of related services listed in the scope of work for a fairly negotiated price.

END OF SECTION 003100

SECTION 004200 – BID SUBMITTAL CHECKLIST

This checklist ***must be completed in its entirety, executed and included*** with the submittal of your signed Bid Proposal Form. By executing below, the Bidder attests all referenced forms are accurate, complete and fully executed. Failure by Bidder to properly complete, execute and include this checklist and all referenced forms with its Bid Proposal Form shall render the Bid non-responsive and shall be grounds for rejection of the Bid.

CHECKLIST

- ☐ Section 004200 Bid Submittal Checklist
- ☐ Section 004213 Bid Proposal Form
- ☐ Section 004215 Bid Response Form
- ☐ Section 004512 Bidder Responsibility Criteria
- ☐ Section 004546.E Certificate of Wage Compliance
- ☐ Bid Guarantee See subsection 1.6 of Section 002100 Instructions to Bidders.
- ☐ Bid submitted in a sealed envelope identifying the following on the front of the envelope:

- Project Name: Sprague Line – Phase 2
- Contract Number: 2025-11062
- Bidder Name: _____
- Bidder Address: _____

If Bid is submitted via mail, the sealed envelope required above shall be in addition to the envelope used for mailing.

STATEMENT OF COMPLIANCE

The undersigned has reviewed and fully understands the required Bid Documents and this Bid Submittal Checklist and certifies that all required documents, as marked herein and required by the specifications, are included in its Bid Proposal.

Authorized Signature: _____ Date: _____

Name: _____ Title: _____

Bidder Name: _____

END OF SECTION 004200

SECTION 004213 – BID PROPOSAL FORM

Bidder Name: _____

Each Bid item below shall constitute an offer to STA as outlined herein. By executing below and submitted its Bid, Bidder acknowledges no Bidder may withdraw its Bid after the hour and date set for the bid opening except as permitted by Section 002100, Instructions to Bidders.

STA reserves the right to accept or reject any or all Bids within ninety (90) days of the Bid Due Date. Bidder understands and agrees any additional taxes, permits, bonds, business licenses, contractor registrations, prevailing wages, certifications and fees, and any other ancillary charges, as applicable, have been included in the respective Bid item.

Basis of Award. The “Lowest Bid” shall be lowest sum of the Base Bids and selected Bid Options, if any. Award of Contract, if any, shall be to the responsive and responsible Bidder submitting the Lowest Bid.

In compliance with the Contract Documents, the following Bid Proposal is submitted:

BASE BID A: City of Spokane Locations	
Bid Item #A1: Sprague @ Sherman Eastbound	\$ _____
Bid Item #A2: Sprague @ Haven Westbound	\$ _____
Bid Item #A3: Sprague @ Haven Eastbound	\$ _____
Bid Item #A4: Sprague @ Freya Eastbound	\$ _____
BASE BID A TOTAL (BID ITEMS # A1-A4)	
(Please print dollar amount in space above)	INCLUDE Washington State Sales Tax
TRENCH EXCAVATION SAFETY PROVISIONS	\$ _____
If the bid amount contains any work which requires trenching excavation exceeding a depth of four (4) feet, all costs for trench safety shall be included in the Base Bid for adequate trench safety systems in compliance with Chapters 39.04 RCW & 49.17 RCW and WAC 296-155-650.	\$ amount included in Base Bid \$ above.

BASE BID B: City of Spokane Valley Locations

Bid Item #B1: Sprague @ Havana Eastbound	\$ _____
Bid Item #B2: Sprague @ Custer Eastbound	\$ _____
Bid Item #B3: Sprague @ Carnahan Westbound	\$ _____
Bid Item #B4: Sprague @ Thierman Westbound	\$ _____
Bid Item #B5: Appleway @ Park Eastbound	\$ _____
Bid Item #B6: Appleway @ Dartmouth Eastbound	\$ _____
Bid Item #B7: Valley Transit Center	\$ _____

BASE BID B TOTAL (BID ITEMS # B1-B7)

(Please print dollar amount in space above)

INCLUDE
Washington State Sales Tax

TRENCH EXCAVATION SAFETY PROVISIONS

\$ _____

If the bid amount contains any work which requires trenching excavation exceeding a depth of four (4) feet, all costs for trench safety shall be included in the Base Bid for adequate trench safety systems in compliance with Chapters 39.04 RCW & 49.17 RCW and WAC 296-155-650.

\$ amount included in Base Bid
\$ above.

BID OPTION 1 (Additive): Sprague @ Sherman Westbound

(Please print dollar amount in space above)

\$ _____

INCLUDE
Washington State Sales Tax

BID OPTION 2 (Additive): Sprague @ Freya Westbound

(Please print dollar amount in space above)

\$ _____

INCLUDE
Washington State Sales Tax

The undersigned agrees to perform the Work in accordance with the Contract Documents as bid herein.

Signature: _____

Date: _____

Name: _____

END OF SECTION 004213

SECTION 004215 – BID RESPONSE FORM

Bidder Name: _____

The Bid shall constitute an offer to STA as outlined herein and in the Bid Proposal Form. No Bidder may withdraw its Bid following the Bid Due Date, except as allowed under Section 002100 – Instructions to Bidders.

1. EXAMINATION OF DOCUMENTS

A. Having carefully examined all Contract Documents, **as well as the site and local conditions affecting the Work**, the undersigned proposes to perform all Work in accordance with the Contract Documents for compensation to be computed from prices submitted on the Bid Proposal Form.

B. By executing this form, the Bidder acknowledges receipt of the following Addenda:

Addendum No. _____ Addendum Date: _____

Addendum No. _____ Addendum Date: _____

Addendum No. _____ Addendum Date: _____

Addendum No. _____ Addendum Date: _____

Addendum No. _____ Addendum Date: _____

C. STA reserves the right to reject any or all Bids, portions or parts thereof, and to waive minor informalities in the Bid process.

2. TIME FOR COMPLETION

The Bidder agrees to coordinate the completion of all Work within 150 Days of receipt of the Notice to Proceed.

3. FREIGHT

Bid prices shall include all freight costs to each project site and shall be FOB Destination.

4. ANTI-KICKBACK

No officer or employee of STA, having the power or duty to perform an official act or action related to this Bid, shall have or acquire any interest in this submittal, or have solicited, accepted or granted a present or future gift, favor, service or other thing of value from or to any person involved in this Bid.

5. FEDERAL DEBARMENT

The undersigned represents that the Bidder and all offices with any controlling interest herein are not currently, and have not previously, been on any debarred bidders list maintained by the United States Government.

6. UBI CERTIFICATION

I CERTIFY that no final determination of violation of RCW 50.12.070(1)(b) or 82.32.070(1)(b) has been made by the Washington State Departments of Employment Security, Labor and Industries or Revenue respectively dated within two (2) years of the Bid Due Date. I understand further that no Bid may be submitted, considered or contract awarded for a public work to any person or entity that has a determination of violation of the above reference statutes within two (2) years from the date that a violation is finally determined and the Bid Due Date.

7. AWARD OF CONTRACT

- A. If written notice of acceptance of all or part of this Bid is mailed, sent electronically or delivered to the undersigned within ninety (90) Days after the Bid Due Date, the undersigned will, within **fifteen (15) Days** after date of such notice, execute and deliver to Owner the Contract as specified and furnish all requisite documentation including, but not limited to, Certificates of Insurance (send to coi@spokanetransit.com) and Payment and Performance Bonds, as required. Payment & Performance Bonds must be submitted in their original form. Electronic copies will not be accepted.
- B. If the undersigned fails to complete the above requirements, the Bidder's Guarantee shall be forfeited to the Owner.

I CERTIFY, to the best of my knowledge, the information contained in this Bid is accurate and complete and that I have the legal authority to commit this firm to a contractual agreement. I realize the final funding for any service is based upon budget levels and the approval of the Spokane Transit Authority's Board of Directors.

Bidder Name: _____
(as registered with the State of Washington)

Authorized Signature: _____ Date: _____

Printed Name and Title: _____

1. BIDDER ADMINISTRATIVE INFORMATION

Company Name: _____
(as registered with the State of Washington)

Physical Address: _____

Mailing Address: _____

Telephone: _____ Fax: _____

Primary Contact: _____

Phone: _____ Email: _____

Washington Contractor License No.: _____

Washington UBI No.: _____

Washington Industrial Insurance Account No.: _____

Federal Tax Identification No.: _____

2. BIDDER INSURANCE COMPANY

Agency Name: _____

Mailing Address: _____

Telephone: _____ Fax: _____

Primary Contact: _____

Phone: _____ Email: _____

3. BIDDER SURETY

Surety Name: _____

Mailing Address: _____

Telephone: _____ Fax: _____

Primary Contact: _____

Phone: _____ Email: _____

I certify the information above is true and correct:

Authorized Signature: _____ Date: _____

Printed Name and Title: _____

BIDDER QUALIFICATION STATEMENT

The following statements of experience, personnel, equipment, and general qualifications of the Bidder are submitted with the assurance that the Owner can rely on its accuracy and truthfulness. If more space is required for your answers, please attach a continuation sheet(s) to the corresponding bid response page referencing the item number.

1. The Company has been in business continually since _____ (month & year).
2. The Company has experience equivalent to that required under this Invitation for Bid:
 - a. As a prime contractor for _____ years.
 - b. As a subcontractor for _____ years.
3. List below work previously completed that is equal to or greater than the scope and complexity of that required under this Invitation to for Bid.

Year	Project Name	Project Location	Contract \$	Project Owner & contact info

4. List supervisory personnel and/or project manager(s) currently employed by the Bidder that will be responsible for the Work on this project. Attach a brief (1 page maximum) resume for each individual listed.

Name	Title	Experience (years)

5. List all projects and/or contracts the Bidder has undertaken in the previous five (5) years which have resulted in:

a. Arbitration or litigation:

Year	Project Name	Project Location	Project Owner & contact info

b. Claims and/or violations filed by the Federal Government and/or the State of Washington Department of Labor & Industries, Department of Revenue or Employment Security Department:

Year	Project Name	Project Location	Project Owner & contact info

c. Liens filed by suppliers and/or subcontractors:

Year	Project Name	Project Location	Project Owner & contact info

I certify the information above is true and correct:

Authorized Signature: _____ Date: _____

Printed Name and Title: _____

SUBCONTRACTOR LIST

The Owner requests the Bidder list subcontractors and consultants, if applicable, of each work discipline applicable to the performance of Work. If no subcontractors and/or consultants are listed, it will be considered the Bidder's affirmation that it does not intend to use any subcontractors and/or consultants in its performance of the Work.

For projects that are estimated to exceed \$1 million dollars, in accordance with RCW 39.30.060, Bidders may submit (1) within one (1) hour after the Bid Due Date, the names of subcontractors with whom the Bidder, if awarded a Contract, will subcontract with for the performance of HVAC (heating, ventilation, and air conditioning), plumbing as described in RCW 18.106, and electrical as described in RCW 19.28, or to name itself for the work; and (2) within forty-eight (48) hours after the Bid Due Date, the names of subcontractors with whom the Bidder, if awarded a Contract, will subcontract with for the performance of structural steel installation and rebar installation.

For additional consultants and/or subcontractors, attach copies of the second page of this Subcontractor List.

Type of work: _____	
Company Name: _____ (as registered with the State of Washington)	
Physical Address: _____	
Mailing Address: _____	
Telephone: _____	Fax: _____
Primary Contact: _____	
Phone: _____	Email: _____
WA Contractor License No.: _____	WA UBI No.: _____
WA Industrial Insurance Account No.: _____	Federal Tax Id No.: _____

Type of work: _____	
Company Name: _____ (as registered with the State of Washington)	
Physical Address: _____	
Mailing Address: _____	
Telephone: _____	Fax: _____
Primary Contact: _____	
Phone: _____	Email: _____
WA Contractor License No.: _____	WA UBI No.: _____
WA Industrial Insurance Account No.: _____	Federal Tax Id No.: _____

Type of work: _____	
Company Name: _____ (as registered with the State of Washington)	
Physical Address: _____	
Mailing Address: _____	
Telephone: _____	Fax: _____
Primary Contact: _____	
Phone: _____	Email: _____
WA Contractor License No.: _____	WA UBI No.: _____
WA Industrial Insurance Account No.: _____	Federal Tax Id No.: _____

Type of work: _____	
Company Name: _____ (as registered with the State of Washington)	
Physical Address: _____	
Mailing Address: _____	
Telephone: _____	Fax: _____
Primary Contact: _____	
Phone: _____	Email: _____
WA Contractor License No.: _____	WA UBI No.: _____
WA Industrial Insurance Account No.: _____	Federal Tax Id No.: _____

Type of work: _____	
Company Name: _____ (as registered with the State of Washington)	
Physical Address: _____	
Mailing Address: _____	
Telephone: _____	Fax: _____
Primary Contact: _____	
Phone: _____	Email: _____
WA Contractor License No.: _____	WA UBI No.: _____
WA Industrial Insurance Account No.: _____	Federal Tax Id No.: _____

Authorized Signature: _____ Date: _____

Printed Name and Title: _____

CONSTRUCTION WORK PLAN

Upon receipt of a Notice to Proceed for construction, Contractor shall:

[illegible]

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Printed Name and Title: _____

V 030223

SECTION 004512 – BIDDER RESPONSIBILITY CRITERIA

In accordance with RCW 39.04.350, a Bidder must meet the following responsibility criteria to be considered a responsible bidder and qualified to be awarded a public works project. The Bidder must at the time of bid submittal:

1. Have a certificate of registration in compliance with chapter 18.27 RCW;
2. Have a current state unified business identifier (UBI) number;
3. If applicable, have industrial insurance coverage for the Bidder's employees working in Washington as required in Title 51 RCW; an employment security department number as required in Title 50 RCW; and a state excise tax registration number as required in Title 82 RCW;
4. Have received training on the requirements related to public works and prevailing wage under this chapter and chapter [39.12](#) RCW. The training must be provided by the Department of Labor and Industries or by a training provider whose curriculum is approved by the Department. Bidders that have completed three (3) or more public works projects, have had a valid business license in Washington for three (3) or more years, and are listed on the Department of Labor and Industries exemption list are exempt from this training requirement;
5. Within the three (3) year period immediately preceding the date of the bid solicitation, not have been determined by a final and binding citation and notice of assessment issued by the Department of Labor and Industries, or through a civil judgment entered by a court of limited or general jurisdiction, to have willfully violated, as defined in RCW [49.48.082](#), any provision of chapter [49.46](#), 49.48, or [49.52](#) RCW; and
6. Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3).

In accordance with RCW 39.06, a public works contractor must verify responsibility criteria for each first-tier subcontractor, and a subcontractor of any tier that hires other subcontractors must verify responsibility criteria for each of its subcontractors. Verification shall include that each subcontractor, at the time of subcontract execution, meets the responsibility criteria and possesses an electrical contractor license, if required by RCW 19.28, or an elevator contractor license, if required by RCW 70.87. This verification requirement, as well as the responsibility criteria, must be included in every public works contract and subcontract of every tier.

Providing the following information is **MANDATORY** in order to meet "Responsible Bidder" requirements. Failure to provide this information may disqualify your bid as being "**Non-Responsive**". *If your business is not required to have one of the following numbers, provide an explanation.*

1. State of Washington Contractor Registration No. _____
2. State of Washington Unified Business Identifier No. _____
3. Employment Security Department No. _____
4. State Excise Tax Registration No. _____
5. Is the payment of Worker's Comp (Industrial Insurance) Premiums current? If your business does not have a Worker's Comp account with the WA State Dept of L&I, please explain why.
☐ Yes
☐ No (If No, you are not eligible to bid on this project)
☐ No Account – Explain why: _____
6. Are you disqualified from bidding on public works projects in the State of Washington?
☐ Yes (If Yes, you are not eligible to bid on this project)
☐ No

END OF SECTION 004512

SECTION 004546.E – CERTIFICATION OF COMPLIANCE WITH WAGE PAYMENT STATUTES

The Bidder hereby certifies that within the three-year period immediately preceding the Bid Due Date, the Bidder is not a “willful” violator, as defined in RCW 49.48.082, of any provision of Chapters 49.46, 49.48 or 49.52 RCW, as determined by a final and binding citation and notice of assessment issued by the State of Washington, Department of Labor and Industries or through a civil judgement entered by a court of limited or general jurisdiction.

I certify under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct:

Bidder Name: _____

Authorized Signature¹: _____ Date: _____

Printed Name and Title: _____

City & State: _____

Company Type: ☐ Sole Proprietor ☐ Partnership² ☐ Joint Venture ☐ Corporation

State of Incorporation or formation: _____

¹ If a Corporation, the Bid must be executed in the corporate name by the president, vice-president, or any other corporate officer accompanied by evidence of authority to execute. If a Partnership, the Bid must be executed by a Partner.

² If a Partnership, provide name of firm under which business is transacted: _____

END OF SECTION 04546.E

SPOKANE TRANSIT AUTHORITY PUBLIC WORKS CONSTRUCTION CONTRACT 2025-11062

This Contract is made by and between **XXX** (“Contractor”) and the **Spokane Transit Authority** (“Owner”) as of the last date of execution.

Contractor	Owner
Name Address City, State, Zip Contractor License #: UBI #: XXX-XXX-XXX FEIN #: XX-XXXXXXX	Spokane Transit Authority 1230 W Boone Ave Spokane, WA 99201

The Contractor and Owner agree as follows:

Project: (project name, location, and description)

Design Professional: (architect or engineer)
Address
City, St, Zip
Contact
Email
Phone

Contract Sum: \$ XXX,XXX.XX Base Bid
\$ XXX,XXX.XX Alternate 1
\$ XXX,XXX.XX Alternate 2
\$ XXX,XXX.XX **TOTAL**

Unit prices:	<u>Item</u>	<u>Units/limits</u>	<u>Unit Price</u>
	XXX	XXX	XXX
	XXX	XXX	XXX
	XXX	XXX	XXX

Allowances in Contract Sum:	<u>Item</u>	<u>Units/Limits</u>	<u>Price</u>
	XXX	XXX	XXX
	XXX	XXX	XXX
	XXX	XXX	XXX

CONTRACT DOCUMENTS

Contract Documents include, but are not limited to:

- A. This Contract executed by the Contractor and Owner;
- B. Advertisement for Bid and all Bid documents;
- C. General Conditions;
- D. Modifications to General Conditions;
- E. Federal Terms & Conditions;
- F. Supplemental Conditions;
- G. Drawings prepared by the Design Professional:
 - List the drawing number range from page 1 to XXX and the date(s).
- H. Technical Specifications;
 - List the specifications number range from page 1 to XXX and the date(s).
- I. Invitation for Bid (IFB)
- J. Addenda: (list any/all addenda by number, date and quantity of pages)

<u>Number</u>	<u>Issue Date</u>	<u># of pages</u>
XXX	XXX	XXX
XXX	XXX	XXX
XXX	XXX	XXX

- K. Other documents identified as follows:

<u>Description</u>	<u>Date</u>	<u># of pages</u>
XXX	XXX	XXX
XXX	XXX	XXX

PROJECT MANAGERS & COMMUNICATIONS

Any administrative or operational communications required under this Contract shall be directed to the Parties' representatives set forth below:

Contractor	Spokane Transit Authority
Contact Title Company Address City, ST ZIP E: email@ P: (XXX) XXX-XXXX	Name Capital Projects Manager Spokane Transit Authority 1230 W Boone Ave Spokane, WA 99201 E: @spokanetransit.com P: (509) XXX-XXXX

Communications to be given hereunder shall be deemed sufficient if given (1) in person; (2) by mail, postage prepaid; or (3) by email, addressed to the Parties' representative set forth above, or as may be revised by written notice in accordance with the Notices Section of this Contract.

NOTICES

All notices, requests, claims, demands and related communications shall be in writing and shall be signed by a person duly authorized to provide such notice. Notices permitted or requested to be given hereunder shall be deemed sufficient if given (1) in person; (2) by regular mail, postage prepaid; (3) by registered or certified mail, postage prepaid, return receipt requested; or (4) by email, addressed to the Parties' representative set forth below, or as may be revised by like notice from time to time.

All notices shall be deemed to have been duly received (1) when delivered in person; (2) three (3) business days after the date of mailing by regular mail, postage prepaid; (3) upon receipt after dispatch by registered or certified mail, postage prepaid; or (4) upon confirmation of a read receipt when transmitted by email.

Contractor	Owner
Contact Title Company Address City, ST ZIP E: email@	Spokane Transit Authority Attn: Contracts 1230 W Boone Ave Spokane, WA 99201 E: contracts@spokanetransit.com

[signatures on the following page]

SIGNATURES

The Parties affirm the individuals signing this Contract have been granted the authority to do so and by their signature affirm the Parties will comply with the terms and conditions of this Contract.

XXX

Spokane Transit Authority

By: _____
Title: _____

Date: _____

By: STA
Title: Chief Executive Officer

Date: _____

Attest:

By: Dana Infalt
Title: Clerk of the Authority

Date: _____

The following Public Works General Conditions (“GC”) are incorporated into the contract to which they are attached. Although these GC are organized consistent with the General Conditions for Washington State Facility Construction, the provisions herein are not identical. Please review these GC carefully.

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Public Works General Conditions

PART 1: GENERAL PROVISIONS

1.01 DEFINITIONS

Capitalized terms included in these GC which are not defined herein shall have the same meaning as defined in the document(s) to which these GC are attached.

- A. **Application for Payment** means a written request submitted by Contractor to Owner or, if applicable, A/E for payment of Work completed in accordance with the Contract Documents and approved Schedule of Values, supported by such substantiating data as Owner or, if applicable, A/E may require.
- B. **Architect, Engineer** or A/E means a person or entity lawfully entitled to practice architecture or engineering, representing Owner within the limits of its delegated authority.
- C. **Award** means the formal decision by the Owner notifying a responsible Bidder with the lowest responsive Bid of the Owner's acceptance of the Bid and intent to enter into a contract with the Bidder.
- D. **Bidder** means an individual, partnership, firm, corporation or joint venture submitting a Bid with the intent to enter into a contract with Owner for the completion of the Work.
- E. **Business Day** means Monday through Friday, commencing at 12:00 AM and ending at 11:59 PM, unless noted otherwise.
- F. **Change Order** means a written instrument signed by Owner and Contractor stating their agreement upon all of the following: (1) a change in the Work; (2) the amount of the adjustment in the Contract Sum, if any, and (3) the extent of the adjustment in the Contract Time, if any.
- G. **Claim** means Contractor's exclusive remedy for resolving disputes with Owner regarding the terms of a Change Order or a request for equitable adjustment, as more fully set forth in Part 8.
- H. **Contract Award Amount** is the sum of the Base Bid and any accepted Alternates.
- I. **Contract Documents** means the Advertisement for Bids, Instructions for Bidders, executed Bid Proposal Form and Bidder certifications, Contract, GC, Modifications to the GC, Federal Terms & Conditions, Drawings, Specifications, all addenda and modifications thereof, all supporting documentation required by any of the above, or as requested by the Owner.

- J. **Contract Sum** is the total amount payable by Owner to Contractor for performance of the Work in accordance with the Contract Documents. Except as described below, the Contract Sum includes all taxes imposed by law and properly chargeable to the Work. The Contract Sum does not include Washington State sales tax.
- K. **Contract Time** is the number of Days allotted in the Contract Documents for achieving Substantial Completion of the Work.
- L. **Contractor** means the person or entity who has agreed with Owner to perform the Work in accordance with the Contract Documents. Contractor's duties and obligations flow down and become duties and obligations of Subcontractors.
- M. **Day(s)** shall mean a calendar day, commencing at 12:00 AM and ending at 11:59 PM, unless noted otherwise.
- N. **Drawings** are the graphic and pictorial portions of the Contract Documents showing the design, location, and dimensions of the Work, and may include plans, elevations, sections, details, schedules and diagrams.
- O. **Final Acceptance** means the written acceptance issued to Contractor by Owner after Contractor has completed the requirements of the Contract Documents, as more fully set forth in Section 6.09E.
- P. **Final Completion** means that the Work is fully and finally complete in accordance with the Contract Documents, as more fully set forth in Section 6.09D.
- Q. **Force Majeure** means those acts entitling Contractor to request an equitable adjustment in the Contract Time, as more fully set forth in Section 3.05A.
- R. **L&I** means the State of Washington Department of Labor and Industries.
- S. **Notice** means a written notice which has been delivered to the individual or a member of the firm or entity or to an officer of the corporation for which it was intended or, if delivered or sent by registered or certified mail, to the last business address known to the party giving notice.
- T. **Notice to Proceed** means a written notice from Owner to Contractor that defines the date on which the Contract Time begins to run.

Public Works General Conditions

- U. **Owner** means the Spokane Transit Authority, STA or its authorized representative with the authority to enter into, administer and/or terminate the Work in accordance with the Contract Documents and make related determinations and findings.
- V. **Person** means a corporation, partnership, business association of any kind, trust, company or individual.
- W. **Prior Occupancy** means Owner's use of all or parts of the Project before Substantial Completion, as more fully set forth in Section 6.08A.
- X. **Progress Schedule** means a schedule of the Work, in a form satisfactory to Owner, as further set forth in Section 3.02B.
- Y. **Project** means the total construction of which the Work performed in accordance with the Contract Documents may be the whole or a part and which may include construction by Owner or by separate contractors.
- Z. **Project Manual** means the volume usually assembled for the Work which may include the bidding requirements, sample forms, and other Contract Documents.
- AA. **Project Record** means the separate set of Drawings and Specifications as further set forth in Section 4.02A.
- BB. **Schedule of Values** means a written breakdown allocating the total Contract Sum to each principal category of Work, in such detail as requested by Owner.
- CC. **Specifications** are that portion of the Contract Documents consisting of the written requirements for materials, equipment, construction systems, standards and workmanship for the Work, and performance of related services.
- DD. **Subcontract** means a contract entered into by Subcontractor for the purpose of obtaining supplies, materials, equipment or services of any kind for or in connection with the Work.
- EE. **Subcontractor** means any person, other than Contractor, who agrees to furnish or furnishes any supplies, materials, equipment or services of any kind in connection with the Work.
- FF. **Substantial Completion** means that stage in the progress of the Work when the construction is sufficiently complete, as more fully set forth in Section 6.07A.

- GG. **Work** means the construction and services required by the Contract Documents, and includes, but is not limited to, labor, materials, supplies, equipment, services, permits and the manufacture and fabrication of components, performed, furnished or provided in accordance with the Contract Documents.

1.02 ORDER OF PRECEDENCE

- A. Any conflict or consistency in the Contract Documents shall be resolved by giving the documents precedence in the following order:
1. Federal Terms & Conditions, if applicable.
 2. Executed Change Order(s), in descending order.
 3. Executed Form of Contract.
 4. Supplemental Conditions, if applicable.
 5. Modifications to the GC, if applicable.
 6. GC.
 7. Specifications. Provisions in Division 1 shall take precedence over provisions of any other Division.
 8. Drawings. In case of conflict within the Drawings, large scale drawings shall take precedence over small scale drawings.
 9. Signed and Completed Bid Form.
 10. Instructions to Bidders.
 11. Advertisement for Bids.

1.03 EXECUTION AND INTENT

Contractor makes the following representations to Owner:

- A. **Contract Sum Reasonable.** The Contract Sum is reasonable compensation for the Work and the Contract Time is adequate for the performance of the Work, as represented by the Contract Documents;
- B. **Contractor Familiar with Project.** Contractor has carefully reviewed the Bid Documents, Contract Documents, visited and examined the Project site, become familiar with the local conditions in which the Work is to be performed, and satisfied itself as to the nature, location, character, quality and quantity of the Work, the labor, materials, equipment, goods, supplies, work, services and other items to be furnished and all other requirements of the Contract Documents,

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- as well as the surface and subsurface conditions and other matters that may be encountered at the Project site or affect performance of the Work or the cost or difficulty thereof;
- C. **Contractor Financially Capable.** Contractor is financially solvent, able to pay its debts as they mature, and possesses sufficient working capital to complete the Work and perform Contractor's obligations required by the Contract Documents; and
- D. **Contractor Can Complete Work.** Contractor is able to furnish the plant, tools, materials, supplies, equipment and labor required to complete the Work and perform the obligations required by the Contract Documents and has sufficient experience and competence to do so.
- C. **Deductible.** The Contractor is responsible for declaring to the Owner and paying any deductible or self-insured retention that is required by any of the Contractor's insurance. If the Owner is required to contribute to the deductible or self-insured retention under any of the Contractor's insurance policies, the Contractor shall reimburse the Owner the full amount of the deductible or self-insured retention.
- D. **Self-insured Retention.** Any Contractor self-insured retentions must be declared to and approved in writing by Owner prior to execution of a Contract. Owner reserves the right to require that self-insured retentions be eliminated, lowered or replaced by a deductible. Self-insurance or self-insured retentions will not be considered to comply with these insurance requirements unless specifically approved in writing by Owner.

PART 2: INSURANCE AND BONDS

2.01 GENERAL INSURANCE REQUIREMENTS

- At the Contractor's own expense, the Contractor shall procure and maintain for the duration of the Contract commercial insurance against claims for injuries to persons or damages to property that may arise from or in connection with the Contractor's own work, including the work of the Contractor's agents, representatives, employees, and Subcontractors of any tier. Contractor shall include in its Bid the cost of all insurance and bond costs required to complete the base Bid work and accepted alternates.
- A. **Evidence of Insurance.** Within ten (10) Days of execution of a contract or prior to commencement of the Work, whichever occurs earlier, Contractor shall submit a Certificate of Insurance evidencing the minimum insurance coverages and limits specified hereunder to Owner at coi@spokanetransit.com. If the Contractor maintains higher limits than those specified herein, the Owner shall be entitled to the higher limits maintained by the Contractor. Owner reserves the right to receive a certified and complete copy of all of the Contractor's insurance policies and the Contractor shall furnish such copies within ten (10) Days of request by Owner. All insurance certificates shall name Owner's Contract number, Project number and Project title.
- B. **Insurer Minimum Requirements.** All insurance policies shall be written with insurance companies licensed to provide insurance in the State of Washington and shall have a rating of not less than A:VII according to the A.M. Best Company.
- E. **Owner as Additional Insured.** Owner shall be named as an additional insured on the Contractor's commercial general liability and automobile liability policies and shall contain, or be endorsed to contain, that the Owner, its officers, officials, employees and volunteers, are to be covered as insureds with respect to liability arising out of automobiles owned, leased, hired or borrowed by or on behalf of the Contractor, and with respect to liability arising out of work or operations performed by or on behalf of the Contractor including material, parts or equipment furnished in connection with such work or operations. The Owner shall be endorsed as a loss payee on the Contractor's builders' risk and boiler and machinery policies.
- F. **Primary and Non-contributory.** It is the intent of the Contract for the Contractor's insurance to be considered primary in the event of a loss, damage or suit. The Owner's own comprehensive general liability policy will be considered excess coverage in respect to the Owner, its officers, officials, employees, and volunteers, and shall not contribute to the Contractor. Additionally, the Contractor's commercial general liability policy must provide cross-liability coverage as would be achieved under a standard ISO separation of insureds clause.
- G. **Notification.** The Contractor shall require from its insurer modification of the ACORD certificates to include language that written notification will be given to the Owner for any cancellation, suspension or material change in the

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- Contractor's coverages at least thirty (30) Days in advance of such cancellation, suspension or material change.
- H. **Term of Insurance Coverage.** Contractor shall maintain insurance coverages herein during the Work and for two (2) years after Final Acceptance. Contractor shall also maintain such insurance coverage during the performance of any corrective Work required by Section 5.16.
- I. **Subcontractor Coverage.** Contractor shall require and verify all Subcontractors maintain insurance meeting all of the requirements stated herein.
- J. **Waiver of Subrogation Rights.** Owner and Contractor waive all subrogation rights against each other, any Subcontractors, A/E, A/E's subconsultants, separate contractors, if any, and any of their subcontractors, for damages caused by fire or other perils to the extent covered by property insurance obtained pursuant to this Section or other property insurance applicable to the Work, except such rights as they have to proceeds of such insurance held by Owner as fiduciary. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged.
- 2.02 MINIMUM INSURANCE COVERAGES
- A. **General Liability Insurance.** Commercial General Liability (CGL) insurance on a project-occurrence basis, with coverage at least as broad as ISO form CG 00 01 with minimum limits of \$2,000,000 per occurrence and \$4,000,000 in the aggregate. Coverage shall include, but not be limited to:
1. Premise/operations;
 2. Contractual liability;
 3. Products & completed operations;
 4. Independent contractors
 5. Property damage; and
 6. Personal injury/advertising injury
- B. **Automobile Liability Insurance.** Commercial automobile liability insurance on a Combined Single Limit basis at least as broad as ISO form
- CA 00 01 with minimum limits of \$2,000,000 per occurrence.
- C. **Industrial Insurance.** Contractor shall comply with the Washington State Industrial Insurance Act and, if applicable, the Federal Longshoremen's and Harbor Workers' Act and the Jones Act.
- D. **Builder's Risk.** Builder's Risk coverage on a replacement-cost basis, at an amount equal to the initial Contract Sum and any subsequent Change Orders, plus twenty-five percent (25%) for additional architectural and engineering services. This property insurance shall cover, at a minimum, malicious mischief, false work, temporary buildings, debris removal including demolition occasioned by enforcement of any applicable legal requirements, reasonable compensation for Owner's and, if applicable, A/E's services and expenses required as a result of an insured loss, perils insured under the ISO special cause of loss form CP 10 30 and shall be endorsed to provide full coverage for loss or damage from collapse, including collapse resulting from design error. The policy shall cover reasonable compensation for architects' and/or engineers' services and expenses made necessary by an insured loss. Insured property shall include portions of the Work located away from the work site, but intended for use at the work site, and shall cover portions of the Work in transit. The policy shall cover the cost of removing debris, including demolition as may be legally necessary by any law, ordinance or regulation.
- The builders risk policy shall be maintained in effect, unless otherwise provided for in the Contract Documents, until the earliest of the following dates: (a) the date on which all persons and organizations who are insureds on the policy agree it shall be terminated; (b) the date on which final payment has been made; (c) the date on which the insurable interests in the property of all insureds other than the Owner have ceased.
- E. For projects not involving construction of a new building, an "Installation Floater" is an acceptable substitute for Builder's Risk Insurance. The Installation Floater shall cover all interests of the Owner, Contractor and any Subcontractors, as their interests may appear, for the duration of the Project.

- F. **Boiler & Machinery.** When applicable, Contractor shall purchase and maintain boiler and machinery coverage covering insured objects during installation and until Final Acceptance by Owner. This insurance shall name as insureds the Owner, Contractor, and all Subcontractors of any tier.

2.03 PAYMENT AND PERFORMANCE BONDS

- A. Payment and performance bonds for one hundred percent (100%) of the Contract Award Amount plus state sales tax, shall be furnished for the Work, using the Payment Bond and Performance Bond form published by and available from the American Institute of Architects (AIA) – form A312 (or current version of the same). Prior to execution of a Change Order that, cumulatively with previous Change Orders, increases the Contract Award Amount by fifteen percent (15%) or more, the Contractor shall provide either new payment and performance bonds for the revised Contract Sum, or riders to the existing payment and performance bonds increasing the amount of the bonds. The Contractor shall likewise provide additional bonds or riders when subsequent Change Orders increase the Contract Sum by fifteen percent (15%) or more.
- B. No payment or performance bond is required if the Contract Sum is \$150,000 (one-hundred fifty thousand dollars) or less and Contractor agrees in writing that Owner may, in lieu of the bond, retain ten percent (10%) of the Contract Sum for the period allowed by RCW 39.08.010.
- C. **Alternative Surety.** Contractor shall promptly furnish payment and performance bonds from an alternative surety as required to protect Owner and persons supplying labor or materials required by the Contract Documents if:
1. Owner has a reasonable objection to the surety; or
 2. Any surety fails to furnish reports on its financial condition if requested by Owner.

PART 3: TIME AND SCHEDULE

3.01 PROGRESS AND COMPLETION

Contractor shall diligently execute the Work, with adequate forces, achieve Substantial Completion within the Contract Time, and achieve Final Completion within a reasonable period thereafter.

3.02 CONSTRUCTION SCHEDULE

- A. **Preliminary Progress Schedule.** Unless otherwise provided in the Contract, Supplemental Conditions, or Modifications to GC, Contractor shall, within fourteen (14) Days after issuance of the Notice to Proceed, submit a preliminary Progress Schedule. The Progress Schedule shall show the sequence in which Contractor proposes to perform the Work, and the dates on which Contractor plans to start and finish major portions of the Work, including dates for shop drawings and other submittals, and for acquiring materials and equipment.
- B. **Form of Progress Schedule.** The Progress Schedule shall be created, maintained and edited using MS Project software or similar software identified and agreed to by and between the parties. The scheduling of construction is the responsibility of the Contractor and is included in the Contract to assure adequate planning and execution of the Work. The schedule will be used to evaluate progress of the Work for payment based on the Schedule of Values. The schedule shall show the Contractor's planned order and interdependence of activities, and sequence of work. At a minimum, the schedule shall include:
- Date of Notice to Proceed;
 - Activities (resources, durations, individual responsible for activity, early starts, late starts, early finishes, late finishes, etc.);
 - Utility Shutdowns;
 - Interrelationships and dependence of activities;
 - Planned vs. actual status for each activity;
 - Substantial Completion;
 - Punch list;
 - Final inspection;
 - Final Completion, and
 - Float time.

The Schedule Duration shall be based on the Contract Time of Completion listed on the Bid Proposal Form. The Owner shall not be obligated to accept any Early Completion Schedule suggested by the Contractor. The Contract Time for Completion shall establish the Schedule Completion Date.

- If the Contractor feels that the Work can be completed in less than the specified Contract Time, then the surplus time shall be considered Project Float. This Project Float time shall be shown on the Project Schedule. It shall be available to accommodate changes in the Work and unforeseen conditions.
- Neither the Contractor nor the Owner have exclusive right to this Float Time. It belongs to the Project.
- C. **Owner Comments on Progress Schedule.** Owner shall return comments on the preliminary Progress Schedule to Contractor within fourteen (14) Days of receipt. Review by Owner of Contractor's schedule does not constitute an approval or acceptance of Contractor's construction means, methods or sequencing, or its ability to complete the Work within the Contract Time. Contractor shall revise and resubmit its schedule, as necessary. Owner may withhold a portion of progress payments until a Progress Schedule has been submitted which meets the requirements of this Section.
- D. **Monthly Updates and Compliance with Progress Schedule.** Contractor shall utilize and comply with the Progress Schedule. On a monthly basis, or as otherwise directed by Owner, Contractor shall submit an updated Progress Schedule at its own expense to Owner indicating actual progress. If, in the opinion of Owner, Contractor is not in conformance with the Progress Schedule for reasons other than acts of Force Majeure as identified in Section 3.05A, Contractor shall take such steps as are necessary to bring the actual completion dates of its work activities into conformance with the Progress Schedule, and if directed by Owner, Contractor shall submit a corrective action plan or revise the Progress Schedule to reconcile with the actual progress of the Work.
- E. **Contractor to Notify Owner of Delays.** Contractor shall promptly notify Owner in writing of any actual or anticipated event which is delaying or could delay achievement of any milestone or performance of any critical path activity of the Work. Contractor shall indicate the expected duration of the delay, the anticipated effect of the delay on the Progress Schedule, and the action being or to be taken to correct the problem. Provision of such notice does not relieve Contractor of its obligation to complete the Work within the Contract Time.
- 3.03 **OWNER'S RIGHT TO SUSPEND THE WORK FOR CONVENIENCE**
- A. **Owner May Suspend Work.** Owner may, at its sole discretion, order Contractor, in writing, to suspend all or any part of the Work for up to ninety (90) Days, or for such longer period as mutually agreed.
- B. **Compliance with Suspension; Owner's Options.** Upon receipt of a written notice suspending the Work, Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of cost of performance directly attributable to such suspension. Within a period up to ninety (90) Days after the notice is delivered to Contractor, or within any extension of that period to which the parties shall have agreed, Owner shall either:
1. Cancel the written notice suspending the Work; or
 2. Terminate the Work covered by the notice as provided in the termination provisions of Part 9.
- C. **Resumption of Work.** If a written notice suspending the Work is cancelled or the period of the notice or any extension thereof expires, Contractor shall resume Work.
- D. **Equitable Adjustment for Suspensions.** Contractor shall be entitled to an equitable adjustment in the Contract Time, or Contract Sum, or both, for increases in the time or cost of performance directly attributable to such suspension, provided Contractor complies with all requirements set forth in Part 7.
- 3.04 **OWNER'S RIGHT TO STOP THE WORK FOR CAUSE**
- A. **Owner May Stop Work for Contractor's Failure to Perform.** If Contractor fails or refuses to perform its obligations in accordance with the Contract Documents, Owner may order Contractor, in writing, to stop the Work, or any portion thereof, until satisfactory corrective action has been taken.
- B. **No Equitable Adjustment for Contractor's Failure to Perform.** Contractor shall not be entitled to an equitable adjustment in the Contract Time or Contract Sum for any increased cost or time of performance attributable to Contractor's failure or refusal to perform or from any reasonable remedial action taken by Owner based upon such failure.

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- C. **Opportunity to Cure.** Owner, in its sole discretion, may, in the case of termination for breach or default, allow the Contractor an appropriate period of time, as determined by Owner, in which to cure the defect of goods or service. In such case, the notice of termination will state the nature of the breach or default, the time period in which cure is permitted and other appropriate conditions. If the Contractor fails to remedy to Owner's satisfaction the breach or default of any of the terms, covenants or conditions of the Contract Documents within the stated period of time for remedy, Owner shall have the right to terminate the Contract without any further obligation to the Contractor. Any such termination for default shall not in any way operate to preclude Owner from also pursuing all available legal remedies against the Contractor and its sureties for said breach or default.
- D. **Waiver of Remedies for Any Breach.** In the event that Owner elects to waive its remedies for any breach by the Contractor of any covenant, term or condition of this Contract, such waiver by Owner shall not limit Owner's legal remedies for any succeeding breach of that or of any other term, covenant, or condition of this contract.
- 3.05 DELAY
- A. **Force Majeure Actions Not A Default; Force Majeure Defined.** Any delay in or failure of performance by Owner or Contractor, other than the payment of money, shall not constitute a default hereunder if and to the extent the cause for such delay or failure of performance was unforeseeable and beyond the control of the party ("Force Majeure"). Acts of Force Majeure include, but are not limited to:
1. Acts of God or the public enemy;
 2. Acts or omissions of any government entity;
 3. Fire or other casualty for which Contractor is not responsible;
 4. Quarantine or epidemic;
 5. Strike or defensive lockout;
 6. Unusually severe weather, in excess of weather conditions experienced within the area any time in the preceding ten (10) years:
 - a. Monthly rainfall in excess of the highest monthly rainfall experienced for the same month.
 - b. Annual rainfall in excess of the highest annual rainfall experienced.
 - c. Monthly snowfall in excess of the highest monthly snowfall experienced for the same month.
 - d. Annual snowfall in excess of the highest annual snowfall experienced.
 - e. Average high temperatures, for the summer months, in excess of the highest temperatures experienced.
 - f. Average low temperatures for the winter months, lower than the lowest average temperatures experienced.
7. Unusual delay in receipt of supplies or products which were ordered and expedited and for which no substitute reasonably acceptable to Owner was available.
- B. **Contract Time Adjustment For Force Majeure.** Contractor shall be entitled to an equitable adjustment in the Contract Time for changes in the time of performance directly attributable to an act of Force Majeure, provided it makes a request for equitable adjustment according to Section 7.03. Contractor shall not be entitled to an adjustment in the Contract Sum resulting from an act of Force Majeure.
- C. **Contract Time or Contract Sum Adjustment If Owner at Fault.** Contractor shall be entitled to an equitable adjustment in Contract Time, and may be entitled to an equitable adjustment in Contract Sum, if the cost or time of Contractor's performance is changed due to the fault or negligence of Owner, provided the Contractor makes a request according to Sections 7.02 and 7.03.
- D. **No Contract Time or Contract Sum Adjustment If Contractor at Fault.** Contractor shall not be entitled to an adjustment in Contract Time or in the Contract Sum for any delay or failure of performance to the extent such delay or failure was caused by Contractor or anyone for whose acts Contractor is responsible.
- E. **Contract Time Adjustment Only for Concurrent Fault.** To the extent any delay or failure of performance was concurrently caused by the Owner and Contractor, Contractor shall be entitled to an adjustment in the Contract Time for that portion of the delay or failure of performance that was concurrently caused, provided it makes a request for equitable adjustment according to

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- Section 7.03, but shall not be entitled to an adjustment in Contract Sum.
- F. **Contractor to Mitigate Delay Impacts.** Contractor shall make all reasonable efforts to prevent and mitigate the effects of any delay, whether occasioned by an act of Force Majeure or otherwise.

3.06 NOTICE TO OWNER OF LABOR DISPUTES

- A. **Contractor to Notify Owner of Labor Disputes.** If Contractor has knowledge that any actual or potential labor dispute is delaying or threatens to delay timely performance in accordance with the Contract Documents, Contractor shall immediately give notice, including all relevant information, to Owner.
- B. **Pass Through Notification Provisions to Subcontractors.** Contractor agrees to insert a provision in its Subcontracts and to require insertion in all Subcontractor subcontracts, that in the event timely performance of any such contract is delayed or threatened by delay by any actual or potential labor dispute, the Subcontractor or its subcontractors shall immediately notify the next higher tier Subcontractor or Contractor, as the case may be, of all relevant information concerning the dispute.

3.07 DAMAGES FOR FAILURE TO ACHIEVE TIMELY COMPLETION

- A. **Liquidated Damages**
1. **Reason for Liquidated Damages.** Timely performance and completion of the Work is essential to Owner and time limits stated in the Contract Documents are of the essence. Owner will incur serious and substantial damages if Substantial Completion of the Work does not occur within the Contract Time. However, it would be difficult if not impossible to determine the exact amount of such damages. Consequently, provisions for liquidated damages are included in the Contract Documents.
 2. **Calculation of Liquidated Damages Amount.** The liquidated damage amounts set forth in the Contract Documents will be assessed not as a penalty, but as liquidated damages for breach of the Contract Documents. This amount is fixed and agreed upon by and between the Contractor and Owner because of the impracticability and

extreme difficulty of fixing and ascertaining the actual damages the Owner would in such event sustain. This amount shall be construed as the actual amount of damages sustained by the Owner and may be retained by the Owner and deducted from periodic payments to the Contractor.

3. **Contractor Responsible Even If Liquidated Damages Assessed.** Assessment of liquidated damages shall not release Contractor from any further obligations or liabilities pursuant to the Contract Documents.

B. **Actual Damages**

1. **Calculation of Actual Damages.** Actual damages will be assessed for failure to achieve Final Completion within the time provided. Actual damages will be calculated on the basis of direct architectural, administrative, and other related costs attributable to the Project from the date when Final Completion should have been achieved, based on the date Substantial Completion is actually achieved, to the date Final Completion is actually achieved. Owner may offset these costs against any payment due Contractor.

PART 4: SPECIFICATIONS, DRAWINGS, AND OTHER DOCUMENTS

4.01 DISCREPANCIES AND CONTRACT DOCUMENT REVIEW

- A. **Specifications and Drawings Are Basis of The Work.** The intent of the Specifications and Drawings is to describe a complete Project to be constructed in accordance with the Contract Documents. Contractor shall furnish all labor, materials, equipment, tools, transportation, permits and supplies, and perform the Work required in accordance with the Drawings, Specifications and other provisions of the Contract Documents.
- B. **Parts of The Contract Documents Are Complementary.** The Contract Documents are complementary. What is required by one part of the Contract Documents shall be binding as if required by all. Anything mentioned in the Specifications and not shown on the Drawings or shown on the Drawings and not mentioned in the Specifications, shall be of like effect as if shown or mentioned in both.

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- C. **Contractor to Report Discrepancies in Contract Documents.** Contractor shall carefully study and compare the Contract Documents with each other and with information furnished by Owner. If, during the performance of the Work, Contractor finds a conflict, error, inconsistency or omission in the Contract Documents, it shall promptly, and before proceeding with the Work affected thereby, report such conflict, error, inconsistency or omission to Owner and, if applicable, A/E in writing.
- D. **Contractor Knowledge of Discrepancy in Documents – Responsibility.** Contractor shall do no Work without applicable Drawings, Specifications or written modifications, or Shop Drawings where required, unless instructed to do so in writing by Owner. If Contractor performs any construction activity and it knows or reasonably should have known that any of the Contract Documents contain a conflict, error, inconsistency or omission, Contractor shall be responsible for the performance and shall bear the cost for its correction.
- E. **Contractor to Perform Work Implied by Contract Documents.** Contractor shall provide any work or materials the provision of which is clearly implied and is within the scope of the Contract Documents even if the Contract Documents do not mention them specifically.
- F. **Interpretation Questions Referred to Owner.** Questions regarding interpretation of the requirements of the Contract Documents shall be referred to the Owner and, if applicable, the A/E.

4.02 PROJECT RECORD

- A. **Contractor to Maintain Project Record Drawings and Specifications.** Contractor shall legibly mark in ink on a separate set of the Drawings and Specifications all actual construction which differ from the project Drawings and Specifications, including, but not limited to, depths of foundations, horizontal and vertical locations of internal and underground utilities and appurtenances referenced to permanent visible and accessible surface improvements, field changes with dimensions and details, actual suppliers, manufacturers and trade names, models of installed equipment, and Change Order Proposals (“COP”). This separate set of Drawings and Specifications shall be the “Project Record”.

- B. **Update Project Record Weekly and Keep on Site.** The Project Record shall be maintained on the Project site throughout the construction and shall be clearly labeled “PROJECT RECORD”. The Project Record shall be updated at least weekly noting all changes and shall be available to Owner at all times.
- C. **Final Project Record to Owner Before Final Acceptance.** Contractor shall submit the completed and finalized Project Record to Owner prior to Final Acceptance.

4.03 SHOP DRAWINGS

- A. **Definition of Shop Drawings.** “Shop Drawings” means documents and other information required to be submitted to Owner and by Contractor pursuant to the Contract Documents, showing in detail: the proposed fabrication and assembly of structural elements; and the installation (i.e., form, fit, and attachment details) of materials and equipment. Shop Drawings include, but are not limited to, drawings, diagrams, layouts, schematics, descriptive literature, illustrations, schedules, performance and test data, samples and similar materials furnished by Contractor to explain in detail specific portions of the Work required by the Contract Documents. For materials and equipment to be incorporated into the Work, Contractor submittal shall include the name of the manufacturer, the model number, and other information concerning the performance, capacity, nature and rating of the item. When directed, Contractor shall submit all samples at its own expense. Owner may duplicate, use and disclose Shop Drawings provided in accordance with the Contract Documents.
- B. **Approval of Shop Drawings by Contractor and Owner.** Contractor shall coordinate all Shop Drawings and review them for accuracy, completeness and compliance with the Contract Documents, and shall indicate its approval thereon as evidence of such coordination and review. Where required by law, Shop Drawings shall be stamped by an appropriate professional licensed by the state of Washington. Shop Drawings submitted to Owner without evidence of Contractor’s approval shall be returned for resubmission. Contractor shall review, approve and submit Shop Drawings with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of Owner or separate contractors. Contractor’s submittal schedule shall allow a reasonable time for Owner and, if applicable, A/E review. Owner and, if

- applicable, A/E, will review, approve or take other appropriate action on the Shop Drawings. Contractor shall perform no portion of the Work requiring submittal and review of Shop Drawings until the respective submittal has been reviewed and the Owner and, if applicable, A/E, has approved or taken other appropriate action. Owner and, if applicable, A/E, shall respond to Shop Drawing submittals with reasonable promptness. Any Work by Contractor shall be in accordance with reviewed Shop Drawings. Submittals made by Contractor which are not required by the Contract Documents may be returned without action.
- C. **Contractor Not Relieved of Responsibility When Shop Drawings Approved.** Approval, or other appropriate action with regard to Shop Drawings, by Owner and, if applicable, A/E, shall not relieve Contractor of responsibility for any errors or omissions in such Shop Drawings, nor from responsibility for compliance with the requirements of the Contract Documents. Unless specified in the Contract Documents, review by Owner and, if applicable, A/E, shall not constitute an approval of the safety precautions employed by Contractor during construction, or constitute an approval of Contractor's means or methods of construction. If Contractor fails to obtain approval before installation, and the item or work is subsequently rejected, Contractor shall be responsible for all costs of correction.
- D. **Variations Between Shop Drawings and Contract Drawings.** If Shop Drawings show variations from the requirements of the Contract Documents, Contractor shall describe such variations in writing, separate from the Shop Drawings, at the time it submits the Shop Drawings containing such variations. If Owner and, if applicable, A/E, approves any such variation, an appropriate Change Order will be issued. If the variation is minor and does not involve an adjustment in the Contract Sum or Contract Time, a Change Order need not be issued; however, the modification shall be recorded upon the Project Record.
- E. **Contractor to Submit Shop Drawings.** Unless otherwise provided in Division 1, Contractor shall submit to Owner and, if applicable, A/E, for approval three (3) original paper copies and an electronic copy in PDF format of all Shop Drawings. Unless otherwise indicated, one (1) original copy of all Shop Drawings shall be retained by Owner; one (1) original copy shall be retained by A/E; and one (1) original copy shall be returned to Contractor.
- 4.04 ORGANIZATION OF SPECIFICATIONS
- A. **Specification Organization by Trade.** Specifications are prepared in sections which conform generally with trade practices. These sections are for Owner and Contractor convenience and shall not control Contractor in dividing the Work among the Subcontractors or in establishing the extent of the Work to be performed by any trade.
- 4.05 OWNERSHIP AND USE OF DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS
- A. **Owner Or, If Applicable, A/E, Not Contractor, Owns Copyright of Drawings and Specifications.** The Drawings, Specifications and other documents prepared by Owner or, if applicable, A/E, (the "Preparer") are instruments of Preparer's service through which the Work to be executed by Contractor is described. Neither Contractor nor any Subcontractor shall own or claim a copyright in the Drawings, Specifications and other documents prepared by Preparer, and Preparer shall be deemed the author of them and will, along with any rights of Owner, retain all common law, statutory and other reserved rights, in addition to the copyright. All copies of these documents, except Contractor's set, shall be returned or suitably accounted for to Owner or, if applicable, A/E, on request, upon completion of the Work.
- B. **Drawings and Specifications to Be Used Only for This Project.** The Drawings, Specifications and other documents prepared by the Owner or, if applicable, A/E, and copies thereof furnished to Contractor, are for use solely with respect to this Project. They are not to be used by Contractor or any Subcontractor on other projects or for additions to this Project outside the scope of the Work without the specific written consent of Owner and, if applicable, A/E. Contractor and Subcontractors are granted a limited license to use and reproduce applicable portions of the Drawings, Specifications and other documents prepared by Owner or, if applicable, A/E, appropriate to and for use in the execution of their Work.
- C. **Shop Drawing License Granted to Owner.** Contractor and all Subcontractors grant a non-exclusive license to Owner, without additional

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cost or royalty, to use for its own purposes (including reproduction) all Shop Drawings, together with the information and diagrams contained therein, prepared by Contractor or any Subcontractor. In providing Shop Drawings, Contractor and all Subcontractors warrant that they have authority to grant to Owner a license to use the Shop Drawings, and that such license is not in violation of any copyright or other intellectual property right. Contractor agrees to defend and indemnify Owner pursuant to the indemnity provisions in Sections 5.03A and 5.22 from any violations of copyright or other intellectual property rights arising out of Owner's use of the Shop Drawings hereunder, or to secure for Owner, at Contractor's own cost, licenses in conformity with this Section.

- D. **Shop Drawings to Be Used Only for This Project.** The Shop Drawings and other submittals prepared by Contractor, Subcontractors of any tier, or its or their equipment or material suppliers, and copies thereof furnished to Contractor, are for use solely with respect to this Project. They are not to be used by Contractor or any Subcontractor of any tier, or material or equipment supplier, on other projects or for additions to this Project outside the scope of the Work without the specific written consent of Owner. The Contractor, Subcontractors of any tier, and material or equipment suppliers are granted a limited license to use and reproduce applicable portions of the Shop Drawings and other submittals appropriate to and for use in the execution of their Work under the Contract Documents.

PART 5: PERFORMANCE

5.01 CONTRACTOR CONTROL AND SUPERVISION

- A. **Contractor Responsible for Means and Methods of Construction.** Contractor shall supervise and direct the Work, using its best skill and attention, and shall perform the Work in a skillful manner. Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences, and procedures and for coordinating all portions of the Work, unless the Contract Documents give other specific instructions concerning these matters. Contractor shall disclose its means and methods of construction when requested by Owner.
- B. **Competent Superintendence Required.** Performance of the Work shall be directly supervised by a competent superintendent who

has authority to act for Contractor. The superintendent must be satisfactory to the Owner and shall not be changed without the prior written consent of Owner. Owner may require Contractor to remove the superintendent from the Work or Project site, if Owner reasonably deems the superintendent incompetent, careless or otherwise objectionable, provided Owner has first notified Contractor in writing and allowed a reasonable period for transition.

- C. **Contractor Responsible for Acts and Omissions of Self and Agents.** Contractor shall be responsible to Owner for acts and omissions of Contractor, Subcontractors and their employees and agents.
- D. **Contractor to Employ Competent and Disciplined Workforce.** Contractor shall enforce strict discipline and good order among all of the Contractor's employees and other persons performing the Work. Contractor shall not permit employment of persons not skilled in tasks assigned to them. Contractor's employees shall at all times conduct business in a manner which assures fair, equal and nondiscriminatory treatment of all persons. Owner may, by written notice, request Contractor to remove from the Work or Project site any employee Owner reasonably deems incompetent, careless or otherwise objectionable.
- E. **Contractor to Keep Project Documents on Site.** Contractor shall keep on the Project site a copy of the Drawings, Specifications, addenda, reviewed Shop Drawings and permits, permit drawings and life safety plans as may be required by federal, state and local agencies.
- F. **Contractor to Comply with Ethical Standards.** Contractor shall ensure that its owner(s) and employees, and those of its Subcontractors, comply with the Ethics in Public Service Act, RCW 42.52, which, among other things, prohibits state employees from having an economic interest in any public works contract that was made by, or supervised by, that employee. Contractor shall remove, at its sole cost and expense, any of its, or its Subcontractors' employees if they are in violation of this act.

5.02 PERMITS, FEES, AND NOTICES

- A. **Contractor to Obtain and Pay for Permits.** Unless otherwise provided in the Contract Documents, Contractor shall pay for and obtain all permits, licenses and inspections necessary for proper execution and completion of the Work.

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Upon issuance of a permit or license, a copy shall be provided to the Owner. Prior to Final Acceptance, the original approved and signed permits shall be delivered to Owner.

- B. **Allowances for Permit Fees.** If allowances for permits or utility fees are called for in the Contract Documents and set forth in Contractor's Bid, and the actual costs of those permits or fees differ from the allowances in the Contract Documents, the difference shall be adjusted by Change Order.
- C. **Contractor to Comply with All Applicable Laws.** Contractor shall comply with and give notices required by all federal, state and local laws, ordinances, rules, regulations and lawful orders of public authorities applicable to performance of the Work.

5.03 PATENTS AND ROYALTIES

- A. **Payment, Indemnification and Notice.** Contractor is responsible for and shall pay all royalties and license fees. Contractor shall defend, indemnify and hold Owner harmless from any costs, expenses and liabilities arising out of the infringement by Contractor and/or its Subcontractors, of any tier, of any patent, copyright or other intellectual property right used in the Work; however, provided that Contractor gives prompt notice, Contractor shall not be responsible for such defense or indemnity when a particular design, process or product of a particular manufacturer or manufacturers is required by the Contract Documents. If Contractor has reason to believe that use of the required design, process or product constitutes an infringement of a patent or copyright, it shall promptly notify Owner of such potential infringement in writing.

5.04 PREVAILING WAGES

- A. **Contractor to Pay Prevailing Wages.** Contractor and Subcontractors of any tier shall pay the prevailing rate of wages to all workers, laborers or mechanics employed in the performance of any part of the Work in accordance with RCW 39.12 *Prevailing Wages on Public Works*, the rules and regulations of L&I, and where applicable, the Davis-Bacon and Related Acts. The schedule of prevailing wage rates for the locality or localities of the Work is determined by the Industrial Statistician of L&I. Such schedule is located at: <https://secure.lni.wa.gov/wagelookup>. Contractor shall use the Bid Due Date as the

effective date and Spokane County as the locality of work when determining applicable prevailing wage rates. A copy of applicable prevailing wage rates is available for viewing upon request at Spokane Transit Authority, 1230 W. Boone Ave., Spokane, WA 99201. It is the Contractor's responsibility to verify the applicable state and federal prevailing wage rates for all job classifications.

- B. **Statement of Intent to Pay Prevailing Wage.** Before payment is made by the Owner to the Contractor for any work performed by the Contractor and subcontractors whose work is included in the Application for Payment, the Contractor shall submit, or shall have previously submitted to the Owner for the Project, a Statement of Intent to Pay Prevailing Wages ("Intent"), approved by L&I, certifying the rate of hourly wage to be paid to each classification of laborers, workers or mechanics employed upon the Work by Contractor and Subcontractors of any tier. Such rates of hourly wage shall not be less than the prevailing wage rate.
- C. **Affidavit of Wages Paid.** Prior to release of retainage or, where applicable, bond, the Contractor shall submit to the Owner an Affidavit of Wages Paid ("Affidavit"), approved by L&I, for the Contractor and every subcontractor, of any tier, which performed work on the Project.
- D. **Statement with Pay Application.** Each Application for Payment submitted by Contractor shall state that prevailing wages have been paid in accordance with the pre-filed and approved Intent.
- E. **Post Statements of Intent at Job Site.** Copies of the approved Intent(s) shall be posted on the job site with the address and telephone number of the Industrial Statistician of L&I where a complaint or inquiry concerning prevailing wages may be made.
- F. **Contractor to Pay for Statements of Intent and Affidavits.** In compliance with chapter 296-127 WAC, Contractor and Subcontractors of any tier shall pay to L&I the currently established fee(s) for each Intent and/or Affidavit submitted to L&I for certification.
- G. **Certified Payrolls.** Consistent with RCW 39.12.120 and WAC 296-127-320, the Contractor and Subcontractors of any tier shall keep accurate payroll records for three (3) years from the date of Final Acceptance of the Project and submit certified payroll records using L&I's online

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system at least once per month. If L&I's online system is not used, Contractor and Subcontractors of any tier shall file a copy of its certified payroll records directly with L&I in a format approved by L&I at least once per month. A Contractor's and/or Subcontractor's noncompliance with this Section constitutes a violation of RCW 39.12.050.

- H. **Dispute Resolution.** Any dispute regarding prevailing wage rates that cannot be resolved between the parties shall be referred to the Director of L&I and such decision of the Director of L&I shall be final and conclusive and binding on the parties.
- I. **Compliance with Federal Funding Requirements.** When the Project is subject to Federal Assistance, Contractor and Subcontractors of any tier shall comply with all requirements of the Davis Bacon and Related Acts. In the event the Project is subject to both State of Washington Prevailing Wages and Davis Bacon and Related Acts, the greater of the two prevailing wage rates shall be paid on a classification-by-classification basis.

5.05 HOURS OF LABOR

- A. **Overtime.** Contractor shall comply with all applicable provisions of RCW 49.28, which are incorporated herein by reference. Pursuant to that statute, no laborer, worker or mechanic employed by Contractor, any Subcontractor, or any other person performing or contracting to do the whole or any part of the Work, shall be permitted or required to work more than eight (8) hours in any one (1) calendar day, provided, that in cases of extraordinary emergency, such as danger to life or property, the hours of work may be extended, but in such cases the rate of pay for time employed in excess of eight (8) hours of each calendar day shall be not less than one and one-half (1-1/2) times the rate allowed for this same amount of time during eight (8) hours of service.
- B. **4-10 Agreements.** Notwithstanding the preceding Section, RCW 49.28 permits a contractor or subcontractor in any public works contract subject to those provisions, to enter into an agreement with its employees in which the employees work up to ten (10) hours in a calendar day. No such agreement may provide that the employees work ten (10) hour days for more than four (4) calendar days a week. Any such agreement is subject to approval by the employees. The overtime provisions of RCW 49.28 shall not apply to the hours, up to forty (40)

hours per week, worked pursuant to any such agreement.

5.06 NONDISCRIMINATION

- A. **Discrimination Prohibited by Applicable Laws.** Discrimination in all phases of employment is prohibited by, among other laws and regulations, Title VI of the Civil Rights Act, Title VII of the Civil Rights Act of 1964, the Vietnam Era Veterans Readjustment Act of 1974, Sections 503 and 504 of the Vocational Rehabilitation Act of 1973, the Equal Employment Act of 1972, the Age Discrimination Act of 1975, Section 202 of the Americans with Disabilities Act of 1990, the Civil Rights Act of 1991, Presidential Executive Order 11246, Executive Order 11375, Executive Order 13672, Federal Transit law at 49 U.S.C. § 5332, the Washington State Law Against Discrimination, RCW 49.60, and Gubernatorial Executive Order 85-09. These laws and regulations establish minimum requirements for affirmative action and fair employment practices which Contractor and Subcontractors must meet.

B. **During performance of the Work:**

1. **Protected Classes.** Contractor shall not discriminate against any employee or applicant for employment because of race, creed, religion, color, national origin, sex, age, marital status, sexual orientation, gender identity, or the presence of any physical, sensory or mental disability, Vietnam era veteran status, or disabled veteran status, nor commit any other unfair practices as defined in RCW 49.60 and prohibited under state and federal law.
2. **Advertisements to State Nondiscrimination.** Contractor shall, in all solicitations or advertisements for employees placed by or for it, state that all qualified applicants will be considered for employment, without regard to race, creed, religion, color, national origin, sex, age, marital status, sexual orientation, gender identity, or the presence of any physical, sensory, or mental disability.
3. **Contractor to Notify Unions and Others of Nondiscrimination.** Contractor shall send to each labor union, employment agency, or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice advising the labor union, employment agency, or

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workers' representative of Contractor's obligations according to the Contract Documents, RCW 49.60, and state and federal prohibitions against discrimination.

4. **Owner and Government Access to Contractor Records.** Contractor shall permit access to its books, records and accounts, and to its premises by Owner, the Equal Employment Opportunity Commission, and the Washington State Human Rights Commission, for the purpose of investigation to ascertain compliance with this Section of the Contract Documents.
5. **Pass Through Provisions to Subcontractors.** Contractor shall include the provisions of this Section in every Subcontract and shall require Subcontractors to include the provisions of this Section in all contracts for the Project.

5.07 SAFETY PRECAUTIONS

- A. **Contractor Responsible for Safety.** Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the performance of the Work.
- B. **Contractor Safety Responsibilities.** In carrying out its responsibilities according to the Contract Documents, Contractor shall protect the lives and health of employees performing the Work and other persons who may be affected by the Work; prevent damage to materials, supplies and equipment whether on site or stored off-site; and prevent damage to other property at the site or adjacent thereto. Contractor shall comply with all applicable laws, ordinances, rules, regulations and orders of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss; shall erect and maintain all necessary safeguards for such safety and protection; and shall notify owners of adjacent property and utilities when prosecution of the Work may affect them.
- C. **Contractor to Maintain Safety Records.** Contractor shall maintain an accurate record of exposure data on all incidents relating to the Work resulting in death, traumatic injury, occupational disease or damage to property, materials, supplies or equipment. Contractor shall immediately report any such incident to Owner. Owner shall, at all times, have a right of access to all records of exposure.

D. **Contractor to Provide Hazmat Information and Training.** Contractor shall provide all persons working on the Project site with information and training on hazardous chemicals in their work at the time of their initial assignment, and whenever a new hazard is introduced into their work area.

1. **Information.** At a minimum, Contractor shall inform persons working on the Project site of:
 - a. **WAC Requirements.** The requirements of chapter 296-62 WAC, General Occupational Health Standards;
 - b. **Presence of Hazardous Chemicals.** Any operations in their work area where hazardous chemicals are present; and
 - c. **Hazard Communications Program.** The location and availability of written hazard communication programs, including the required list(s) of hazardous chemicals and material safety data sheets required by chapter 296-62 WAC.
2. **Training.** At a minimum, Contractor shall provide training for persons working on the Project site which includes, but is not limited to:
 - a. **Detecting Hazardous Chemicals.** Methods and observations that may be used to detect the presence or release of a hazardous chemical in the work area (such as monitoring conducted by the employer, continuous monitoring devices, visual appearance or odor of hazardous chemicals when being released, etc.);
 - b. **Hazards of Chemicals.** The physical and health hazards of the chemicals in the work area;
 - c. **Protection from Hazards.** The measures such persons can take to protect themselves from these hazards, including specific procedures Contractor, its Subcontractors or others have implemented to protect those on the Project site from exposure to hazardous chemicals, such as appropriate work practices, emergency procedures and personal protective equipment to be used; and

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- d. **Hazard Communications Program.** The details of the hazard communications program developed by Contractor, or its Subcontractors, including an explanation of the labeling system and the material safety data sheet, and how employees can obtain and use the appropriate hazard information.
- E. **Hazardous, Toxic or Harmful Substances.** Contractor's responsibility for hazardous, toxic or harmful substances shall include the following duties:
1. **Illegal Use of Dangerous Substances.** Contractor shall not keep, use, dispose, transport, generate or sell on or about the Project site, any substances now or hereafter designated as, or which are subject to regulation as, hazardous, toxic, dangerous or harmful by any federal, state or local law, regulation, statute or ordinance (hereinafter collectively referred to as "hazardous substances") in violation of any such law, regulation, statute or ordinance, but in no case shall any such hazardous substance be stored more than ninety (90) Days on the Project site.
 2. **Contractor Notifications of Spills, Failures, Inspections, Citations and Fines.** Contractor shall promptly notify Owner of all spills or releases of any hazardous substances which are otherwise required to be reported to any regulatory agency and pay the cost of cleanup. Contractor shall promptly notify Owner of all failures to comply with any federal, state or local law, regulation or ordinance; all inspections of the Project site by any regulatory entity concerning the same; any citation; all regulatory orders or fines; and all responses or interim cleanup actions taken by or proposed to be taken by any government entity or private party on the Project site.
- F. **Public Safety and Traffic.** All Work shall be performed with due regard for the safety of the public. Contractor shall perform the Work so as to cause a minimum of interruption of vehicular traffic or inconvenience to pedestrians. All arrangements to care for such traffic shall be Contractor's responsibility. All expenses involved in the maintenance of traffic by way of detours shall be borne by Contractor.
- G. **Contractor to Act in an Emergency.** In an emergency affecting the safety of life or the Work or of adjoining property, Contractor is permitted to act, at its discretion, to prevent such threatened loss or injury, and Contractor shall so act if so authorized or instructed.
- H. **No Duty of Safety by Owner or A/E.** Nothing provided in this Section shall be construed as imposing any duty upon Owner and, if applicable, A/E, with regard to, or as constituting any express or implied assumption of control or responsibility over, Project site safety, or over any other safety conditions relating to employees or agents of Contractor or any of its Subcontractors, or the public.
- 5.08 **OPERATIONS, MATERIAL HANDLING, AND STORAGE AREAS**
- A. **Limited Storage Areas.** Contractor shall confine all operations, including storage of materials, to Owner-approved areas.
 - B. **Temporary Buildings and Utilities at Contractor Expense.** Temporary buildings (e.g., storage sheds, shops, offices) and utilities may be provided by Contractor only with the consent of Owner and without expense to Owner. The temporary buildings and utilities shall be removed by Contractor at its expense upon completion of the Work.
 - C. **Roads and Vehicle Loads.** Contractor shall use only established roadways or temporary roadways authorized by Owner. When materials are transported in prosecuting the Work, vehicles shall not be loaded beyond the loading capacity recommended by the manufacturer of the vehicle or prescribed by federal, state or local law or regulation.
 - D. **Ownership and Reporting by Contractor of Demolished Materials.** Ownership and control of all materials or facility components to be demolished or removed from the Project site by Contractor shall immediately vest in Contractor upon severance of the component from the facility or severance of the material from the Project site. Contractor shall be responsible for compliance with all laws governing the storage and ultimate disposal. Contractor shall provide Owner with a copy of all manifests and receipts evidencing proper disposal when required by Owner or applicable law.

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E. **Contractor Responsible for Care of Materials and Equipment On-Site.** Contractor shall be responsible for the proper care and protection of its materials and equipment delivered to the Project site. Materials and equipment may be stored on the premises subject to approval of Owner. When Contractor uses any portion of the Project site as a shop, Contractor shall be responsible for any repairs, patching or cleaning arising from such use.

F. **Contractor Responsible for Loss of Materials and Equipment.** Contractor shall protect and be responsible for any damage or loss to the Work, or to the materials or equipment until the date of Substantial Completion, and shall repair or replace without cost to Owner any damage or loss that may occur, except damages or loss caused by the acts or omissions of Owner. Contractor shall also protect and be responsible for any damage or loss to the Work, or to the materials or equipment, after the date of Substantial Completion, and shall repair or replace without cost to Owner any such damage or loss that might occur, to the extent such damages or loss are caused by the acts or omissions of Contractor, or any Subcontractor.

5.09 PRIOR NOTICE OF EXCAVATION

A. **Excavation Defined.** “Excavation” means an operation in which earth, rock, or other material on or below the ground is moved or otherwise displaced by any means, except the tilling of soil less than twelve (12) inches in depth for agricultural purposes, or road ditch maintenance that does not change the original road grade or ditch flow line.

B. **Use of Locator Services.** Before commencing any excavation, Contractor shall provide notice of the scheduled commencement of excavation to all owners of underground facilities or utilities, through locator services.

5.10 UNFORESEEN PHYSICAL CONDITIONS

A. **Notice Requirement for Concealed or Unknown Conditions.** If Contractor encounters conditions at the site which are subsurface or otherwise concealed physical conditions which differ materially from those indicated in the Contract Documents, or unknown physical conditions of an unusual nature which differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided

for in the Contract Documents, then Contractor shall give written notice to Owner promptly and in no event later than seven (7) Days after the first observance of the conditions. Conditions shall not be disturbed prior to such notice.

B. **Adjustment in Contract Time and Contract Sum.** If such conditions differ materially and cause a change in Contractor’s cost of, or time required for, performance of any part of the Work, the Contractor may be entitled to an equitable adjustment in the Contract Time or Contract Sum, or both, provided it makes a request therefore as provided in Part 7.

5.11 PROTECTION OF EXISTING STRUCTURES, EQUIPMENT, VEGETATION, UTILITIES, AND IMPROVEMENTS

A. **Contractor to Protect and Repair Property.** Contractor shall protect from damage all existing structures, equipment, improvements, utilities and vegetation at or near the Project site; and on adjacent property of a third party, the locations of which are made known to or should be known by Contractor. Contractor shall repair any damage, including that to the property of a third party, resulting from failure to comply with the requirements of the Contract Documents or failure to exercise reasonable care in performing the Work. If Contractor fails or refuses to repair the damage promptly, Owner may have the necessary work performed and charge the cost to Contractor.

B. **Tree and Vegetation Protection.** Contractor shall only remove trees when specifically authorized to do so and shall protect vegetation that will remain in place.

5.12 LAYOUT OF WORK

A. **Advanced Planning of The Work.** Contractor shall plan and lay out the Work in advance of operations so as to coordinate all work without delay or revision.

B. **Layout Responsibilities.** Contractor shall lay out the Work from Owner-established baselines and benchmarks indicated on the Drawings and shall be responsible for all field measurements in connection with the layout. Contractor shall furnish, at its own expense, all stakes, templates, platforms, equipment, tools, materials and labor required to lay out any part of the Work. Contractor shall be responsible for executing the

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Work to the lines and grades that may be established. Contractor shall be responsible for maintaining or restoring all stakes and other marks established.

5.13 MATERIAL AND EQUIPMENT

- A. **Contractor to Provide New and Equivalent Equipment and Materials.** All equipment, material and articles incorporated into the Work shall be new and of the most suitable grade for the purpose intended, unless otherwise specifically provided in the Contract Documents. References in the Specifications to equipment, material, articles or patented processes by trade name, make or catalog number, shall be regarded as establishing a standard quality and shall not be construed as limiting competition. Contractor may, at its option, use any equipment, material, article or process that, in the judgment of A/E, is equal to that named in the specifications, unless otherwise specifically provided in the Contract Documents.
- B. **Contractor Responsible for Fitting Parts Together.** Contractor shall do all cutting, fitting or patching that may be required to make its several parts fit together properly or receive or be received by work of others set forth in, or reasonably implied by, the Contract Documents. Contractor shall not endanger any work by cutting, excavating or otherwise altering the Work and shall not cut or alter the work of any other contractor unless approved in advance by Owner.
- C. **Owner May Reject Defective Work.** Should any of the Work be found defective, or in any way not in accordance with the Contract Documents, the Work, in whatever stage of completion, may be rejected by Owner.

5.14 AVAILABILITY AND USE OF PREMISES AND UTILITY SERVICES

- A. **Use of Premises.** Contractor's use of Owner's premises is limited to Project activities within the areas identified.
- B. **Owner's Occupation of Site.** The Owner may occupy the site and existing building(s) during the entire work period. Contractor agrees to cooperate with Owner during operation to minimize conflicts and facilitate Owner usage. Contractor agrees to perform the work so as not to interfere with the Owner's operations.
- C. **Contractor Must Allow Owner Access.** Contractor must at all times provide for and allow

Owner access. Contractor shall not store or stage vehicles or materials on driveways or at entrances and must keep these access points serving the premises clear and available to the Owner at all times.

- D. **Owner to Provide and Charge for Utilities.** Owner shall make all reasonable utilities available to Contractor from existing outlets and supplies, as specified in the Contract Documents. Unless otherwise provided in the Contract Documents, the utility service consumed shall be charged to or paid for by Contractor at prevailing rates charged to Owner or, where the utility is produced by Owner, at reasonable rates determined by Owner. Contractor will carefully conserve any utilities furnished.
- E. **Contractor to Install Temporary Connections and Meters.** Contractor shall, at its expense and in a skillful manner satisfactory to Owner, install and maintain all necessary temporary connections and distribution lines, together with appropriate protective devices, and all meters required to measure the amount of each utility used for the purpose of determining charges. Prior to the date of Final Acceptance, Contractor shall remove all temporary connections, distribution lines, meters and associated equipment and materials.

5.15 TESTS AND INSPECTION

- A. **Owner to Provide for All Testing and Inspection of Work.** Owner shall maintain an adequate testing and inspection program and perform such tests and inspections as are necessary or required to ensure that the Work conforms to the requirements of the Contract Documents. Contractor shall be responsible for quality surveillance of all its Work and all Work performed by any Subcontractor. Unless otherwise provided, Owner shall make arrangements for such tests, inspections and approvals with an independent testing laboratory or entity acceptable to Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections and approvals. Contractor shall give Owner timely notice of when and where tests and inspections are to be made. Contractor shall maintain complete inspection records and make them available to Owner.
- B. **Owner May Conduct Tests and Inspections.** Owner may, at any reasonable time, conduct such inspections and tests as it deems necessary to ensure that the Work is in accordance with the

- Contract Documents. Owner shall promptly notify Contractor if an inspection or test reveals that the Work is not in accordance with the Contract Documents. Unless the subject items are expressly accepted by Owner, such Owner inspection and tests are for the sole benefit of Owner and do not:
1. Constitute or imply acceptance;
 2. Relieve Contractor of responsibility for providing adequate quality control measures;
 3. Relieve Contractor of responsibility for risk of loss or damage to the Work, materials or equipment;
 4. Relieve Contractor of its responsibility to comply with the requirements of the Contract Documents; or
 5. Impair Owner's right to reject defective or nonconforming items, or to avail itself of any other remedy to which it may be entitled.
- C. **Inspections or Inspectors Do Not Modify Contract Documents.** Neither observations by an inspector retained by Owner, the presence or absence of such inspector on the site, nor inspections, tests or approvals by others, shall relieve Contractor from any requirement of the Contract Documents, nor is any such inspector authorized to change any term or condition of the Contract Documents.
- D. **Contractor Responsibilities on Inspections.** Contractor shall promptly furnish, without additional charge, all facilities, labor, material and equipment reasonably needed for performing such safe and convenient inspections and tests as may be required by Owner. Owner may charge Contractor any additional cost of inspection or testing when Work is not ready at the time specified by Contractor for inspection or testing, or when prior rejection makes reinspection or retest necessary. Owner shall perform its inspections and tests in a manner that will cause no undue delay in the Work.
- 5.16 **CORRECTION OF NONCONFORMING WORK**
- A. **Work Covered by Contractor Without Inspection.** If a portion of the Work is covered contrary to the requirements in the Contract Documents, it must, if required in writing by Owner, be uncovered for Owner's observation and be replaced at the Contractor's expense and without change in the Contract Time.
- B. **Payment Provisions for Uncovering Covered Work.** If, at any time prior to Final Completion, Owner desires to examine the Work, or any portion of it, which has been covered, Owner may request to see such Work and it shall be uncovered by Contractor. If such Work is in accordance with the Contract Documents, the Contractor shall be entitled to an adjustment in the Contract Sum for the costs of uncovering and replacement, and, if completion of the Work is thereby delayed, an adjustment in the Contract Time, provided it makes such a request as provided in Part 7. If such Work is not in accordance with the Contract Documents, the Contractor shall pay the costs of examination and reconstruction.
- C. **Contractor to Correct and Pay for Non-Conforming Work.** Contractor shall promptly correct Work found by Owner not to conform to the requirements of the Contract Documents, whether observed before or after Substantial Completion and whether or not fabricated, installed or completed. Contractor shall bear all costs of correcting such nonconforming Work, including additional testing and inspections.
- D. **Contractor's Compliance with Warranty Provisions.** If, within one (1) year after the date of Substantial Completion of the Work or designated portion thereof, or within one (1) year after the date for commencement of any system warranties established under Sections 5.16D, 5.21, 6.08B, or within the terms of any applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, Contractor shall correct it promptly after receipt of written notice from Owner to do so. Owner shall give such notice promptly after discovery of the condition. This period of one (1) year shall be extended, with respect to portions of Work first performed after Substantial Completion, by the period of time between Substantial Completion and the actual performance of the Work. Contractor's duty to correct with respect to Work repaired or replaced shall run for one (1) year from the date of repair or replacement. Obligations under this Section shall survive Final Acceptance.
- E. **Contractor to Remove Non-Conforming Work.** Contractor shall remove from the Project site portions of the Work which are not in accordance with the requirements of the Contract Documents and are neither corrected by Contractor nor accepted by Owner.

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F. **Owner May Charge Contractor for Non-Conforming Work.** If Contractor fails to correct nonconforming Work within a reasonable time after written notice to do so, Owner may replace, correct or remove the nonconforming Work and charge the cost thereof to the Contractor.

G. **Contractor to Pay for Damaged Work During Correction.** Contractor shall bear the cost of correcting destroyed or damaged Work, whether completed or partially completed, caused by Contractor's correction or removal of Work which is not in accordance with the requirements of the Contract Documents.

H. **No Period of Limitation on Other Requirements.** Nothing contained in this Section shall be construed to establish a period of limitation with respect to other obligations which Contractor might have according to the Contract Documents. Establishment of the time period of one (1) year as described in Section 5.16D relates only to the specific obligation of Contractor to correct the Work, and has no relationship to the time within which the Contractor's obligation to comply with the Contract Documents may be sought to be enforced, including the time within which such proceedings may be commenced.

I. **Owner May Accept Non-Conforming Work and Charge Contractor.** If Owner prefers to accept Work which is not in accordance with the requirements of the Contract Documents, Owner may do so instead of requiring its removal and correction, in which case the Contract Sum may be reduced as appropriate and equitable.

5.17 CLEAN UP

A. **Contractor to Keep Site Clean and Leave It Clean.** Contractor shall at all times keep the Project site, including hauling routes, infrastructures, utilities and storage areas, free from accumulations of waste materials. Before completing the Work, Contractor shall remove from the premises its rubbish, tools, scaffolding, equipment and materials. Upon completing the Work, Contractor shall leave the Project site in a clean, neat and orderly condition satisfactory to Owner. If Contractor fails to clean up as provided herein, and after reasonable notice from Owner, Owner may do so, and the cost thereof shall be charged to Contractor. Contractor further agrees:

1. To comply with regulations of authorities having jurisdiction and safety standards for cleaning;

2. To not burn waste materials;
3. To not bury debris or excess materials on the Owner's property;
4. To not discharge volatile, harmful or dangerous materials into drainage systems; and
5. To remove waste materials from the site and dispose of in a lawful manner.
6. Where extra materials of value remaining after completion of associated work have become the Owner's property, arrange for disposition of these materials as directed.

5.18 ACCESS TO WORK AND COMMUNICATIONS REGARDING PROJECT STATUS

A. **Owner and A/E Access to Work Site.** Contractor shall provide Owner and, if applicable, A/E, access to the Work in progress wherever located.

B. **Pre-Project Conference.** Owner shall conduct a pre-project conference after execution of the Contract and prior to commencement of Contractor's performance. The parties to the Agreement shall review their respective responsibilities and personnel assignments.

1. **Attendees.** The Owner, the Contractor and its superintendent, subcontractors, suppliers, manufacturers and other concerned parties shall be represented by persons authorized to conclude matters relating to the Work.
2. **Agenda.** Discuss significant items that could affect progress, including the tentative project progress schedule, critical sequencing, use of the premises and procedures for processing Change Orders and equipment deliveries.
3. Minutes of the meeting shall be taken by the Owner. The Owner shall promptly distribute the meeting minutes to everyone concerned. Contractor is required to distribute the meeting minutes to affected subcontractors and prime suppliers.

C. **Progress Meetings at Regular Intervals.** Contractor should attempt to coordinate meeting dates with preparation of payment requests.

1. **Agenda.** Review minutes of the previous progress meeting. Review significant items that could affect progress. Include topics

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appropriate to the current status of the Project.

2. **Review Project Progress Schedule Since the Last Meeting.** Determine where each activity is in relation to the schedule, and whether on time, ahead of, or behind the schedule. Determine how areas that are behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether revisions are required to ensure that current and subsequent activities will be completed within the Contract time.

- D. **Reporting.** No later than three (3) Days after each meeting, distribute copies of minutes of the meeting to each party present and to parties who should have been present. Include a summary, in narrative form, of progress since the previous meeting.

5.19 OTHER CONTRACTS

Owner may undertake or award other contracts for additional work at or near the Project site. Contractor shall reasonably cooperate with the other contractors and with Owner's employees and shall carefully adapt scheduling and perform the Work in accordance with these Contract Documents to reasonably accommodate the other work.

5.20 SUBCONTRACTORS AND SUPPLIERS

- A. **Subcontractor Responsibilities.** The Contractor shall include the language of this Section in each of its first-tier Subcontracts and shall require each of its Subcontractors to include the same language of this Section in each of their subcontracts, adjusting only as necessary the terms used for the contracting parties. Upon request of the Owner, the Contractor shall promptly provide documentation to the Owner demonstrating that the Subcontractor meets the subcontractor responsibility criteria below. The requirements of this Section apply to all subcontractors regardless of tier. At the time of subcontract execution, the Contractor shall verify that each of its first-tier subcontracts meet the following bidder responsibility criteria:

1. Have a current certificate of registration as a contractor in compliance with chapter 18.27 RCW, which must have been in effect at the time of subcontract bid submittal;
2. Have a current Washington Unified Business Identifier (UBI) number;

3. Have a Washington Employment Security Department number, as required in Title 50 RCW;
4. Have a Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;
5. Maintain Industrial Insurance (workers' compensation coverage) for the subcontractor's employees working in Washington, as required in Title 51 RCW;
6. Have received training on the requirements related to public works and prevailing wage under this chapter and chapter 39.12 RCW. The training must be provided by L&I or by a training provider whose curriculum is approved by L&I. Contractors that have completed three (3) or more public works projects, have had a valid business license in Washington for three (3) or more years, and are listed on the L&I exemption list are exempt from this training requirement;
7. Within the three (3) year period immediately preceding the date of the bid solicitation, not have been determined by a final and binding citation and notice of assessment issued by L&I, or through a civil judgment entered by a court of limited or general jurisdiction, to have willfully violated, as defined in RCW [49.48.082](#), any provision of chapter [49.46](#), 49.48, or [49.52](#) RCW;
8. Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3); and
9. If applicable, have:
 - a. An electrical contractor license, if required by Chapter 19.28 RCW; and/or
 - b. An elevator contractor license, if required by Chapter 19.28, RCW.

- B. **Provide Names of Subcontractors and Use Qualified Firms.** Before submitting the first Application for Payment, Contractor shall furnish in writing to Owner the names, addresses and telephone numbers of all Subcontractors, as well as suppliers providing materials in excess of \$2,500 (two thousand five-hundred dollars). Contractor shall utilize Subcontractors and suppliers which are experienced and qualified, and meet the requirements of the Contract Documents, if any. Contractor shall not utilize any Subcontractor or supplier to whom the Owner has a reasonable objection and shall obtain

- Owner's written consent before making any substitutions or additions.
- C. **Subcontracts in Writing and Pass-Through Provision.** All Subcontracts must be in writing. By appropriate written agreement, Contractor shall require each Subcontractor, so far as applicable to the Work to be performed by the Subcontractor, to be bound to Contractor by terms of the Contract Documents, and to assume toward Contractor all the obligations and responsibilities which Contractor assumes toward Owner in accordance with the Contract Documents. Each Subcontract shall preserve and protect the rights of Owner in accordance with the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights. Where appropriate, Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. However, nothing in this Section shall be construed to alter the contractual relations between Contractor and its Subcontractors with respect to insurance or bonds.
- D. **Coordination of Subcontractors; Contractor Responsible for Work.** Contractor shall schedule, supervise, and coordinate the operations of all Subcontractors. No Subcontracting of any of the Work shall relieve Contractor from its responsibility for the performance of the Work in accordance with the Contract Documents or any other obligations of the Contract Documents.
- E. **Automatic Assignment of Subcontracts.** Each subcontract agreement for a portion of the Work is hereby assigned by Contractor to Owner provided that:
1. **Effective Only After Termination and Owner Approval.** The assignment is effective only after termination by Owner for cause pursuant to Section 9.01 and only for those Subcontracts which Owner accepts by notifying the Subcontractor in writing; and
 2. **Owner Assumes Contractor's Responsibilities.** After the assignment is effective, Owner will assume all future duties and obligations toward the Subcontractor which Contractor assumed in the Subcontract.
 3. **Impact of Bond.** The assignment is subject to the prior rights of the surety, if any, obligated under any bond provided in accordance with the Contract Documents.
- 5.21 **WARRANTY OF CONSTRUCTION**
- A. **Contractor Warranty of Work.** In addition to any special warranties provided elsewhere in the Contract Documents, Contractor warrants that all Work conforms to the requirements of the Contract Documents and is free of any defect in equipment, material, or design furnished, or workmanship performed by Contractor.
- B. **Contractor Responsibilities.** With respect to all warranties, express or implied, for Work performed or materials furnished according to the Contract Documents, Contractor shall:
1. **Obtain Warranties.** Obtain all warranties that would be given in normal commercial practice;
 2. **Warranties for Benefit of Owner.** Require all warranties to be executed, in writing, for the benefit of Owner;
 3. **Enforcement of Warranties.** Enforce all warranties for the benefit of Owner, if directed by Owner; and
 4. **Contractor Responsibility for Subcontractor Warranties.** Be responsible to enforce any subcontractor's, manufacturer's, or supplier's warranties should they extend beyond the period specified in the Contract Documents.
- C. **Warranties Beyond Final Acceptance.** The obligations under this Section shall survive Final Acceptance.
- 5.22 **INDEMNIFICATION**
- A. In performing work and services hereunder, the Contractor, its employees, agents and representatives, shall be acting as independent contractors, and shall not be deemed or construed to be employees or agents of STA in any manner whatsoever. The Contractor shall not hold itself out as, nor claim to be, an officer or employee of STA by reason hereof, and will not make any claim, demand or application to or for any right or privilege applicable to an officer or employee of STA. The Contractor shall be solely responsible for any claims for wages or compensation by the Contractor's employees, agents and representatives, and shall save and hold STA harmless therefrom.
- B. To the maximum extent permitted by law, the Contractor shall indemnify and hold harmless STA and all of STA's officers, employees, and agents from and against all claims, demands,

suits, penalties and liability of any kind, including injuries to persons or damages to property, which arise out of or are due to any acts, errors, or omissions of the Contractor, or the Contractor's employees, agents, and representatives in performing work and services under this Agreement. In the event that any claims, investigations, demands, suits, actions, and lawsuits arise out of any of the aforesaid acts, errors, or omissions, the Contractor shall assume all costs of defending such claims, suits, actions, or lawsuits, including legal fees incurred by STA, any penalties imposed on STA or the Contractor, and all judgments that may be obtained against STA, or any of its officers, agents, or employees in such suits. Further, the Contractor waives immunity under the Industrial Insurance Act and assumes all liability for actions brought by him or his employees against STA for injuries in the performance of this Agreement. The Contractor represents this provision has been negotiated with STA.

- C. To the maximum extent permitted by law, STA shall indemnify and hold harmless the Contractor and all of Contractor's officers, employees, and agents from and against all claims, demands, suits, penalties and liability of any kind, including injuries to persons or damages to property, which arise out of or are due to any acts, errors, or omissions of STA, or STA's employees, agents, and representatives while engaged in the business of public transportation and with respect to its duties and obligations as fee owner of the real property which Contractor has been engaged to manage. In the event that any claims, investigations, demands, suits, actions, and lawsuits arise out of any of the aforesaid acts, errors, or omissions, STA shall assume all costs of defending such claims, suits, actions, or lawsuits, including legal fees incurred by Contractor, any penalties imposed on Contractor or STA, and all judgments that may be obtained against Contractor, or any of its officers, agents, or employees in such suits. STA represents this provision has been negotiated with Contractor.

PART 6: PAYMENTS AND COMPLETION

6.01 CONTRACT SUM

- A. **Owner Shall Pay Contract Sum.** Owner shall pay Contractor the Contract Sum plus state sales tax for performance of the Work, in accordance with the Contract Documents.

6.02 SCHEDULE OF VALUES

- A. **Contractor to Submit Schedule of Values.** Before submitting its first Application for Payment, Contractor shall submit to Owner for approval a Schedule of Values. The Schedule of Values shall include appropriate amounts for mobilization and demobilization, record drawings, Operations & Maintenance manuals, and any other requirements for Project closeout, and shall be approved and used by Owner as the basis for progress payments. Project closeout costs should be scheduled independent of any retainage amount. Payment for Work shall be made only for and in accordance with those items included in the Schedule of Values.

6.03 APPLICATION FOR PAYMENT

- A. **Statement of Intent to Pay Prevailing Wages.** The Statement of Intent to Pay Prevailing Wages for the Contractor and each Subcontractor must be on file with the Owner before commencement of work and before the first payment can be made.
- B. **Monthly Application for Payment with Substantiation.** At monthly intervals, unless determined otherwise by Owner, Contractor shall submit to Owner an itemized Application for Payment for Work completed in accordance with the Contract Documents and the approved Schedule of Values.
1. Each Application for Payment must include a statement that prevailing wages have been paid by the contractor in accordance with the pre-filed statement or statements of Intent to Pay prevailing wages on file.
 2. If federally funded, certified weekly payrolls must be submitted with Application for Payment.
 3. Each Application for Payment shall be consistent with previous applications and payments as certified and paid for by the Owner.
 4. **Payment Application Times.** Progress payments will be made only for actual work performed or materials delivered.
 5. **Payment Application Forms.** Use the Form for Applications for Payment included in the addenda or preapproved format.
 6. Include amounts of Change Orders and Construction Change Directives issued prior to the last Day of the construction period covered by the application.

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7. **Transmittal.** Submit one (1) executed copy of each Application for Payment to the Owner by means ensuring receipt within twenty-four (24) hours; one (1) copy shall be complete, including waivers of lien and similar attachments, when required.
 8. Transmit each copy with a transmittal form listing attachment(s), and recording appropriate information related to the application in a manner acceptable to the Owner.
 9. **Waivers of Mechanics Lien.** With each Application for Payment, submit waivers of lien from every entity who may lawfully be entitled to file a lien arising out of the Contract, and related to the work covered by the payment.
 10. The Contractor shall be paid, upon the submission of proper applications for payment, within thirty (30) Days after STA's approval of the Contractor's application.
- C. **Contractor Certifies Subcontractors Paid.** By submitting an Application for Payment, Contractor is certifying that all Subcontractors have been paid, less earned retainage in accordance with RCW 60.28.011, as their interests appeared in the last preceding certificate of payment. By submitting an Application for Payment, Contractor is recertifying that the representations set forth in Section 1.03 are true and correct, to the best of Contractor's knowledge, as of the date of the Application for Payment.
- D. **Reconciliation of Work with Progress Schedule.** At the time it submits an Application for Payment, Contractor shall analyze and reconcile, to the satisfaction of Owner, the actual progress of the Work with the Progress Schedule.
- E. **Payment for Material Delivered to Site or Stored Off-Site.** If authorized by Owner, the Application for Payment may include request for payment for material delivered to the Project site and suitably stored, or for completed preparatory work. Payment may similarly be requested for material stored off the Project site, provided Contractor complies with or furnishes satisfactory evidence of the following:
1. **Suitable Facility or Location.** The material will be placed in a facility or location that is structurally sound, dry, lighted and suitable for the materials to be stored;
 2. **Facility or Location Within 10 Miles of Project.** The facility or location is located within a ten (10) mile radius of the Project. Other locations may be utilized, if approved in writing, by Owner;
 3. **Facility or Location Exclusive to Project's Materials.** Only materials for the Project are stored within the facility or location (or a secure portion of a facility or location set aside for the Project);
 4. **Insurance Provided on Materials in Facility or Location.** Contractor furnishes Owner a certificate of insurance extending Contractor's insurance coverage for damage, fire, and theft to cover the full value of all materials stored, or in transit;
 5. **Facility or Location Locked and Secure.** The facility or location (or secure portion thereof) is continuously under lock and key, and only Contractor's authorized personnel shall have access;
 6. **Owner Right of Access to Facility or Location.** Owner shall at all times have the right of access in company of Contractor;
 7. **Contractor Assumes Total Responsibility for Stored Materials.** Contractor and its surety assume total responsibility for the stored materials; and
 8. **Contractor Provides Documentation and Notice When Materials Moved to Site.** Contractor furnishes to Owner certified lists of materials stored, bills of lading, invoices, and other information as may be required, and shall also furnish Notice to Owner when materials are moved from storage to the Project site.
- 6.04 PROGRESS PAYMENTS
- A. **Owner to Pay Within Thirty (30) Days.** Owner shall make progress payments, in such amounts as Owner determines are properly due, within thirty (30) Days after receipt of a properly executed and complete Application for Payment. Owner shall notify Contractor in accordance with chapter 39.76 RCW if the Application for Payment does not comply with the requirements of the Contract Documents.
- B. **Withholding Retainage; Options for Retainage.** When allowed by law, Owner shall retain five percent (5%) of the amount of each progress payment until forty-five (45) Days after

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Final Acceptance and receipt of all documents required by law or the Contract Documents, including, at Owner's request, consent of surety to release of the retainage. In accordance with chapter 60.28 RCW, Contractor may request that monies reserved be retained in a fund by Owner, deposited by Owner in a bank or savings and loan, or placed in escrow with a bank or trust company to be converted into bonds and securities to be held in escrow with interest to be paid to Contractor. Owner may permit Contractor to provide an appropriate bond in lieu of the retained funds.

1. When the Project is subject to Federal Assistance, the Owner shall rely upon the Contractor's Payment and Performance Bonds to satisfy (i) The claims of any person or persons arising under the contract to the extent such claims are provided for in RCW [39.08.010](#); and (ii) the state with respect to taxes, increases, and penalties incurred on the public improvement project under Titles [50](#), [51](#), and [82](#) RCW which may be due. The contract bond must remain in full force and effect until, at a minimum, all claims filed in compliance with chapter [39.08](#) RCW are resolved.

- C. **Title Passes to Owner Upon Payment.** Title to all Work and materials covered by a progress payment shall pass to Owner at the time of such payment free and clear of all liens, claims, security interests, and encumbrances. Passage of title shall not, however, relieve Contractor from any of its duties and responsibilities for the Work or materials, or waive any rights of Owner to insist on full compliance by Contractor with the Contract Documents.
- D. **Interest on Unpaid Balances.** Payments due and unpaid in accordance with the Contract Documents may bear interest as specified in Chapter 39.76 RCW.

6.05 PAYMENTS WITHHELD

- A. **Owner's Right to Withhold Payment.** Owner may withhold or, on account of subsequently discovered evidence, nullify the whole or part of any payment to such extent as may be necessary to protect Owner from loss or damage for reasons including but not limited to:
 1. **Non-Compliant Work.** Work not in accordance with the Contract Documents;

2. **Remaining Work to Cost More Than Unpaid Balance.** Reasonable evidence that the Work required by the Contract Documents cannot be completed for the unpaid balance of the Contract Sum;
3. **Owner Correction or Completion Work.** Work by Owner to correct defective Work or complete the Work in accordance with Section 5.16;
4. **Contractor's Failure to Perform.** Contractor's failure to perform in accordance with the Contract Documents; or
5. **Contractor's Negligent Acts or Omissions.** Cost or liability that may occur to Owner as the result of Contractor's fault or negligent acts or omissions.

- B. **Owner to Notify Contractor of Withholding for Unsatisfactory Performance.** In any case where part or all of a payment is going to be withheld for unsatisfactory performance, Owner shall notify Contractor in accordance with Chapter 39.76 RCW.

6.06 RETAINAGE AND BOND CLAIM RIGHTS

- A. **Chapters 39.08 RCW and 60.28 RCW Incorporated by Reference.** Chapters 39.08 and 60.28 RCW, concerning the rights and responsibilities of Contractor and Owner with regard to the performance and payment bonds and retainage, are made a part of the Contract Documents by reference as though fully set forth herein.

6.07 SUBSTANTIAL COMPLETION

- A. **Substantial Completion Defined.** Substantial Completion is the stage in the progress of the Work (or portion thereof designated and approved by Owner) when the construction is sufficiently complete, in accordance with the Contract Documents, so Owner has full and unrestricted use and benefit of the facilities (or portion thereof designated and approved by Owner) for the use for which it is intended. All Work other than incidental corrective or punch list work shall be completed. Substantial Completion shall not have been achieved if all systems and parts are not functional, if utilities are not connected and operating normally, if all required occupancy permits have not been issued, or if the Work is not accessible by normal vehicular and pedestrian traffic routes. The date Substantial Completion is

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achieved shall be established in writing by Owner. Contractor may request an early date of Substantial Completion which must be approved by Change Order. Owner's occupancy of the Work or designated portion thereof does not necessarily indicate that Substantial Completion has been achieved.

6.08 PRIOR OCCUPANCY

- A. **Prior Occupancy Defined; Restrictions.** Owner may, upon written notice thereof to Contractor, take possession of or use any completed or partially completed portion of the Work ("Prior Occupancy") at any time prior to Substantial Completion. Unless otherwise agreed in writing, Prior Occupancy shall not: be deemed an acceptance of any portion of the Work; accelerate the time for any payment to Contractor; prejudice any rights of Owner provided by any insurance, bond, guaranty, or the Contract Documents; relieve Contractor of the risk of loss or any of the obligations established by the Contract Documents; establish a date for termination or partial termination of the assessment of liquidated damages; or constitute a waiver of claims.
- B. **Damage; Duty to Repair and Warranties.** Notwithstanding anything in the preceding Section, Owner shall be responsible for loss of or damage to the Work resulting from Prior Occupancy. Contractor's one (1) year duty to repair any system warranties shall begin on building systems activated and used by Owner as agreed in writing by Owner and Contractor.

6.09 FINAL INSPECTION, FINAL COMPLETION, ACCEPTANCE, AND PAYMENT (PROJECT CLOSE-OUT)

- A. **Final Inspection.** On receipt of a request for inspection, the Owner will either proceed with inspection or advise the Contractor of unfilled requirements. The Owner will prepare the Certificate of Substantial Completion following inspection or advise the Contractor of construction that must be completed or corrected before the certificate will be issued.
- B. The Owner will repeat the inspection once when requested and assured that the work has been substantially completed. Subsequent inspections necessary to assure that the work has been substantially completed will be charged at the Owner representative's normal billing rate and a Construction Change Directive will be prepared

to deduct the representative's charges from the Contract Sum.

1. The Owner will reinspect the work upon receipt of notice that the work, including inspection list items from earlier inspections, has been completed, except items whose completion has been delayed because of circumstances acceptable to the Owner.
 2. Upon completion of reinspection, the Owner will prepare a certificate of Final Acceptance, or advise the Contractor of work that is incomplete or of obligations that have not been fulfilled but are required for Final Acceptance.
- C. Before requesting final inspection for certification of Final Acceptance and final payment, Contractor must complete the following:
1. Submit the final payment request with releases and supporting documentation not previously submitted and accepted. Include certificates of insurance for products and completed operations where required.
 2. Submit an updated final statement, accounting for final additional changes, if applicable, to the Contract Sum.
 3. Submit a certified copy of the Owner's final inspection list of items to be completed or corrected, stating that each item has been completed or otherwise resolved for acceptance and the list has been endorsed and dated by the Owner.
 4. Submit a consent of surety to final payment.
 5. Submit a final liquidated damages settlement statement, if applicable.
 6. Submit evidence of final, continuing insurance coverage complying with insurance requirements.
 7. Closeout and final payment of this project may be contingent upon completion and resolution of a Davis-Bacon Prevailing Wage audit.
 8. Remove temporary protection and facilities installed for protection of the work during construction.
 9. Assurance that unsettled claims will be settled.
 10. Assurance that Work not complete and accepted will be completed without undue delay.

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11. Transmittal of required project construction records to Owner.
 12. Proof that taxes, fees, and similar obligations have been paid.
 13. Removal of surplus materials (not belonging to STA), rubbish and similar elements.
 14. Affidavit of Wages Paid certification.
 15. If federally funded, submit final certified weekly payrolls.
 16. All required warranties have been written and submitted.
- D. **Final Completion Defined.** Final Completion shall be achieved when the Work is fully complete in accordance with the Contract Documents. The date Final Completion is achieved shall be established by Owner in writing, but in no case shall constitute Final Acceptance which is a subsequent, separate, and distinct action.
- E. **Final Acceptance Defined.** Final Acceptance shall be achieved when the Contractor has completed the requirements of the Contract Documents. The date Final Acceptance is achieved shall be established by Owner in writing. Prior to Final Acceptance, Contractor shall, in addition to all other requirements in the Contract Documents, submit to Owner a written notice of any outstanding disputes or claims between Contractor and any of its Subcontractors, including the amounts and other details thereof. Neither Final Acceptance, nor final payment, shall release Contractor or its sureties from any obligations of these Contract Documents or the payment and performance, or constitute a waiver of any claims by Owner arising from Contractor's failure to perform the Work in accordance with the Contract Documents.
1. Final payment (retainage or release of bond where applicable) cannot be made until Release of Lien Notices have been received from the Washington State Department of Revenue, Employment Security Department, and L&I, if applicable.
- F. **Final Payment Waives Claim Rights.** Acceptance of final payment by Contractor, or any Subcontractor, shall constitute a waiver and release to Owner of all claims by Contractor, or any such Subcontractor, for an increase in the Contract Sum or the Contract Time, and for every act or omission of Owner relating to or arising out of the Work, except for those Claims made in

accordance with the procedures, including the time limits identified in the Contract Documents.

- G. **Prior to and/or contemporaneous with, Final Acceptance the following must be complete:**
1. Contractor must submit specific warranties, workmanship bonds, maintenance agreements, final certifications, and similar documents;
 2. Contractor must obtain and submit releases enabling the Owner unrestricted use of the work and access to services and utilities; include occupancy permits, operating certificates, and similar releases as applicable;
 3. Contractor must complete final clean up requirements; and
 4. Contractor must arrange for each installer of equipment that requires regular maintenance to meet with the Owner's personnel to provide instruction in proper operation and maintenance. If installers are not experienced in procedures, provide instruction by manufacturer's representatives.

PART 7: CHANGES

7.01 CHANGE IN THE WORK

- A. **Changes in Work, Contract Sum, And Contract Time by Change Order.** Owner may, at any time and without notice to Contractor's surety, order additions, deletions, revisions, or other changes in the Work. These changes in the Work shall be incorporated into the Contract Documents through the execution of Change Orders. If any change in the Work ordered by Owner causes an increase or decrease in the Contract Sum or the Contract Time, an equitable adjustment shall be made as provided in Section 7.02 or 7.03, respectively, and such adjustment(s) shall be incorporated into a Change Order.
- B. **Owner May Request COP from Contractor.** If Owner desires to order a change in the Work, it may request a written Change Order Proposal (COP) from Contractor. Contractor shall submit a Change Order Proposal within fourteen (14) Days of the request from Owner, or within such other period as mutually agreed. Contractor's Change Order Proposal shall be full compensation for implementing the proposed change in the Work, including any adjustment in the Contract Sum or Contract Time, and including

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compensation for all delays in connection with such change in the Work and for any expense or inconvenience, disruption of schedule, or loss of efficiency or productivity occasioned by the change in the Work.

- C. **COP Negotiations.** Upon receipt of the Change Order Proposal, or a request for equitable adjustment in the Contract Sum or Contract Time, or both, as provided in Sections 7.02 and 7.03, Owner may accept or reject the proposal, request further documentation, or negotiate acceptable terms with Contractor. Pending agreement on the terms of the Change Order, Owner may direct Contractor to proceed immediately with the Change Order Work. Contractor shall not proceed with any change in the Work until it has obtained Owner's approval. All Work done pursuant to any Owner-directed change in the Work shall be executed in accordance with the Contract Documents.
- D. **Change Order as Full Payment and Final Settlement.** If Owner and Contractor reach agreement on the terms of any change in the Work, including any adjustment in the Contract Sum or Contract Time, such agreement shall be incorporated in a Change Order. The Change Order shall constitute full payment and final settlement of all claims for time and for direct, indirect, and consequential costs, including costs of delays, inconvenience, disruption of schedule, or loss of efficiency or productivity, related to any Work either covered or affected by the Change Order, or related to the events giving rise to the request for equitable adjustment.
- E. **Failure to Agree Upon Terms of Change Order; Final Offer and Claims.** If Owner and Contractor are unable to reach agreement on the terms of any change in the Work, including any adjustment in the Contract Sum or Contract Time, Contractor may at any time in writing, request a final offer from Owner. Owner shall provide Contractor with its written response within thirty (30) Days of Contractor's request. Owner may also provide Contractor with a final offer at any time. If Contractor rejects Owner's final offer, or the parties are otherwise unable to reach agreement, Contractor's only remedy shall be to file a Claim as provided in Part 8.
- F. **Field Authorizations.** The Owner may direct the Contractor to proceed with a change in the Work through a written "Field Authorization" (also referred to as a "Field Order") when the time

required to price and execute a Change Order would impact the Project.

The Field Authorization shall describe and include the following:

1. The Scope of change to the Work;
2. An estimated amount to perform the scope of the change to the Work;
3. Any estimated change to the Contract Time; and
4. The method of final cost determination in accordance with the requirements of Section 7.02A.3 of the GC; and

Upon satisfactory submittal by the Contractor and approval by the Owner of supporting cost data a Change Order will be executed. The Owner will not make payment to the Contractor for Field Authorization Work until that work has been incorporated into an executed Change Order.

7.02 CHANGE IN THE CONTRACT SUM

A. General Application

1. **Contract Sum Changes Only by Change Order.** The Contract Sum shall only be changed by a Change Order. Contractor shall include any request for a change in the Contract Sum in its Change Order Proposal.
2. **Owner Fault or Negligence as Basis for Change in Contract Sum.** If the cost of Contractor's performance is changed due to the fault or negligence of Owner, or anyone for whose acts Owner is responsible, Contractor shall be entitled to make a request for an equitable adjustment in the Contract Sum in accordance with the following procedure. No change in the Contract Sum shall be allowed to the extent: Contractor's changed cost of performance is due to the fault or negligence of Contractor, or anyone for whose acts Contractor is responsible; the change is concurrently caused by Contractor and Owner; or the change is caused by an act of Force Majeure as defined in Section 3.05A.
 - a. **Notice and Record Keeping for Equitable Adjustment.** A request for an equitable adjustment in the Contract Sum shall be based on written notice delivered to Owner within seven (7) Days of the occurrence of the event giving rise to the request. For purposes

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of this part, “occurrence” means when Contractor knew, or in its diligent prosecution of the Work should have known, of the event giving rise to the request. If Contractor believes it is entitled to an adjustment in the Contract Sum, Contractor shall immediately notify Owner and begin to keep and maintain complete, accurate, and specific daily records. Contractor shall give Owner access to any such records and, if requested shall promptly furnish copies of such records to Owner.

b. **Content of Notice for Equitable Adjustment; Failure to Comply.**

Contractor shall not be entitled to any adjustment in the Contract Sum for any occurrence of events or costs that occurred more than seven (7) Days before Contractor’s written notice to Owner. The written notice shall set forth, at a minimum, a description of: the event giving rise to the request for an equitable adjustment in the Contract Sum; the nature of the impacts to Contractor and its Subcontractors of any tier, if any; and to the extent possible the amount of the adjustment in Contract Sum requested. Failure to properly give such written notice shall, to the extent Owner’s interests are prejudiced, constitute a waiver of Contractor’s right to an equitable adjustment.

c. **Contractor to Provide Supplemental Information.**

Within thirty (30) Days of the occurrence of the event giving rise to the request, unless Owner agrees in writing to allow an additional period of time to ascertain more accurate data, Contractor shall supplement the written notice provided in accordance with Section 7.02A.2.a above with additional supporting data. Such additional data shall include, at a minimum: the amount of compensation requested, itemized in accordance with the procedure set forth herein; specific facts, circumstances, and analysis that confirms not only that Contractor suffered the damages claimed, but that the damages claimed were actually a result of the act, event, or condition complained of and that the Contract Documents provide entitlement to an equitable adjustment to Contractor for such act, event, or condition; and

documentation sufficiently detailed to permit an informed analysis of the request by Owner. When the request for compensation relates to a delay, or other change in Contract Time, Contractor shall demonstrate the impact on the critical path, in accordance with Section 7.03C. Failure to provide such additional information and documentation within the time allowed or within the format required shall, to the extent Owner’s interests are-prejudiced, constitute a waiver of Contractor’s right to an equitable adjustment.

d. **Contractor to Proceed with Work as Directed.**

Pending final resolution of any request made in accordance with this paragraph, unless otherwise agreed in writing, Contractor shall proceed diligently with performance of the Work.

e. **Contractor to Combine Requests for Same Event Together.**

Any requests by Contractor for an equitable adjustment in the Contract Sum and in the Contract Time that arise out of the same event(s) shall be submitted together.

3. **Methods for Calculating Change Order Amount.**

The value of any Work covered by a Change Order, or of any request for an equitable adjustment in the Contract Sum, shall be determined by one of the following methods:

a. **Fixed Price.** On the basis of a fixed price as determined in Section 7.02B.

b. **Unit Prices.** By application of unit prices to the quantities of the items involved as determined in Section 7.02C.

c. **Time and Materials.** On the basis of time and material as determined in Section 7.02D.

d. **Fixed Price Method Is Default; Owner May Direct Otherwise.**

When Owner has requested Contractor to submit a Change Order Proposal, Owner may direct Contractor as to which method in Section 7.02A.3 to use when submitting its proposal. Otherwise, Contractor shall determine the value of the Work, or of a request for an equitable adjustment, on the basis of the fixed price method.

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B. **Change Order Pricing -- Fixed Price**

Procedures. When the fixed price method is used to determine the value of any Work covered by a Change Order, or of a request for an equitable adjustment in the Contract Sum, the following procedures shall apply:

1. **Breakdown and Itemization of Details on COP.** Contractor's Change Order Proposal, or request for adjustment in the Contract Sum, shall be accompanied by a complete itemization of the costs, including labor, material, subcontractor costs, and overhead and profit. The costs shall be itemized in the manner set forth below and shall be submitted on breakdown sheets in a form approved by Owner.
2. **Use of Industry Standards in Calculating Costs.** All costs shall be calculated based upon appropriate industry standard methods of calculating labor, material quantities, and equipment costs.
3. **Costs Contingent on Owner's Actions.** If any of the Contractor's pricing assumptions are contingent upon anticipated actions of Owner, Contractor shall clearly state them in the proposal or request for an equitable adjustment.
4. **Markups on Additive and Deductive Work.** The cost of any additive or deductive changes in the Work shall be calculated as set forth below, except that overhead and profit shall not be included on deductive changes in the Work. Where a change in the Work involves additive and deductive work by the same Contractor or Subcontractor, small tools, overhead, profit, bond and insurance markups will apply to the net difference.
5. **Breakdown Not Required If Change Less Than \$1,000.** If the total cost of the change in the Work or request for equitable adjustment does not exceed \$1,000, Contractor shall not be required to submit a breakdown if the description of the change in the Work or request for equitable adjustment is sufficiently definitive for Owner to determine fair value.
6. **Breakdown Required If Change Between \$1,000 And \$2,500.** If the total cost of the change in the Work or request for equitable adjustment is between \$1,000 and \$2,500, Contractor may submit a breakdown in the following level of detail if the description of

the change in the Work or if the request for equitable adjustment is sufficiently definitive to permit the Owner to determine fair value:

- a. lump sum labor;
 - b. lump sum material;
 - c. lump sum equipment usage;
 - d. overhead in accordance with Section 7.02B.7.f;
 - e. profit in accordance with Section 7.02B.7.g; and
 - f. insurance and bond costs in accordance with Section 7.02B.7.h.
7. **Components of Increased Cost.** Any request for adjustment of Contract Sum based upon the fixed price method over \$2,500 shall include only the following items:
- a. **Craft Labor Costs.** These are the labor costs determined by multiplying the estimated or actual additional number of craft hours needed to perform the change in the Work by the hourly labor costs. Craft hours should cover direct labor, as well as indirect labor due to trade inefficiencies. The hourly costs shall be based on the following:
 - (1) **Basic Wages and Benefits.** Hourly rates and benefits as stated on the L&I approved Intent or Davis-Bacon prevailing wages, or a higher amount if approved by the Owner. Direct supervision shall be a reasonable percentage not to exceed fifteen percent (15%) of the cost of direct labor. No supervision markup shall be allowed for a working supervisor's hours.
 - (2) **Worker's Compensation Insurance.** Direct contributions to the state of Washington for industrial insurance; medical aid; and supplemental pension, by the class and rates established by L&I.
 - (3) **Federal Insurance.** Direct contributions required by the Federal Insurance Compensation Act; Federal Unemployment Tax Act; and the State Unemployment Compensation Act.

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- (4) **Travel Allowance.** Travel allowance and/or subsistence, if applicable, shall be consistent with Owner's policy allowing reimbursement or allotment of amounts actual, reasonable, and necessary. Owner's full policy regarding Travel is available on request.
- (5) **Safety.** Cost incurred due to the Washington Industrial Safety and Health Act, which shall be a reasonable percentage not to exceed two percent (2%) of the sum of the amounts calculated in (1), (2), and (3) above.
- b. **Material Costs.** This is an itemization of the quantity and cost of materials needed to perform the change in the Work. Material costs shall be developed first from actual known costs, second from supplier quotations or if these are not available, from standard industry pricing guides. Material costs shall consider all available discounts. Freight costs, express charges, or special delivery charges shall be itemized.
- c. **Equipment Costs.** This is an itemization of the type of equipment and the estimated or actual length of time the construction equipment appropriate for the Work is or will be used on the change in the Work. Costs will be allowed for construction equipment only if used solely for the changed Work, or for additional rental costs actually incurred by the Contractor. Equipment charges shall be computed on the basis of actual invoice costs or if owned, from the current edition of one of the following sources:
- (1) Associated General Contractors - Washington State Department of Transportation ("AGC WSDOT") Equipment Rental Agreement current edition, on the Contract execution date.
- (2) The state of Washington Utilities and Transportation Commission for trucks used on highways.
- (3) The National Electrical Contractors Association for equipment used on electrical work.
- (4) The Mechanical Contractors Association of America for equipment used on mechanical work.
- (5) The EquipmentWatch Rental Rate (Blue Book) shall be used as a basis for establishing rental rates of equipment not listed in the above sources. The maximum rate for standby equipment shall not exceed that shown in the AGC WSDOT Equipment Rental Agreement, current edition on the Contract execution date.
- d. **Allowance for Small Tools, Expendables & Consumable Supplies.** Small tools consist of tools which cost \$250 or less and are normally furnished by the performing contractor. The maximum rate for small tools shall not exceed the following:
- (1) **3% For Contractor.** For Contractor, three percent (3%) of direct labor costs.
- (2) **5% For Subcontractors.** For Subcontractors, five percent (5%) of direct labor costs.
- Expendables and consumable supplies directly associated with the change in Work must be itemized.
- e. **Subcontractor Costs.** This is defined as payments Contractor makes to Subcontractors for changed Work performed by Subcontractors of any tier. The Subcontractors' cost of Work shall be calculated and itemized in the same manner as prescribed herein for Contractor.
- f. **Allowance for Overhead.** This is defined as costs of any kind attributable to direct and indirect delay, acceleration, or impact, added to the total cost to Owner of any change in the Contract Sum. If the Contractor is compensated under Section 7.03D, the amount of such compensation shall be reduced by the amount Contractor is otherwise entitled to under this Section. This allowance

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shall compensate Contractor for all non-craft labor, temporary construction facilities, field engineering, schedule updating, as-built drawings, home office cost, B&O taxes, office engineering, estimating costs, additional overhead because of extended time, and any other cost incidental to the change in the Work. It shall be strictly limited in all cases to a reasonable amount, mutually acceptable, or if none can be agreed upon to an amount not to exceed the rates below:

(1) **Projects Less Than \$3 Million.**

For projects where the Contract Award Amount is under \$3 million, the following shall apply:

- (a) **Contractor Markup on Contractor Work.** For Contractor, for any Work actually performed by Contractor's own forces, shall not exceed sixteen percent (16%) of the first \$50,000 of the cost, and four percent (4%) of the remaining cost, if any.
- (b) **Subcontractor Markup for Subcontractor Work.** For each Subcontractor (including lower tier subcontractors), for any Work actually performed by its own forces, shall not exceed sixteen percent (16%) of the first \$50,000 of the cost, and four percent (4%) of the remaining cost, if any.
- (c) **Contractor Markup for Subcontractor Work.** For Contractor, for any work performed by its Subcontractor(s), shall not exceed six percent (6%) of the first \$50,000 of the amount due each Subcontractor, and four percent (4%) of the remaining amount if any.

- (d) **Subcontractor Markup for Lower Tier Subcontractor Work.** For each Subcontractor, for any Work performed by its Subcontractor(s) of any lower tier, shall not exceed four percent (4%) of the first \$50,000 of the amount due the sub-Subcontractor, and two percent (2%) of the remaining amount if any.

- (e) **Basis of Cost Applicable for Markup.** The cost to which overhead is to be applied shall be developed in accordance with Sections 7.02B.7.a through 7.02B.7.e.

(2) **Projects More Than \$3 Million.** for projects where the Contract Award Amount is equal to or exceeds \$3 million, the following shall apply:

- (a) **Contractor Markup on Contractor Work.** For Contractor, for any Work actually performed by Contractor's own forces, shall not exceed twelve percent (12%) of the first \$50,000 of the cost, and four percent (4%) of the remaining cost, if any.
- (b) **Subcontractor Markup for Subcontractor Work.** For each Subcontractor (including lower tier subcontractors), for any Work actually performed by its own forces, shall not exceed twelve percent (12%) of the first \$50,000 of the cost, and four percent (4%) of the remaining cost, if any.
- (c) **Contractor Markup for Subcontractor Work.** For Contractor, for any Work performed by its Subcontractor(s), shall not exceed four percent (4%) of the first \$50,000 of the amount due each Subcontractor, and two percent (2%) of the remaining amount if any.

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- (d) **Subcontractor Markup for Lower Tier Subcontractor Work.** For each Subcontractor, for any Work performed by its Subcontractor(s) of any lower tier, shall not exceed four percent (4%) of the first \$50,000 of the amount due the sub-Subcontractor, and two percent (2%) of the remaining amount if any.
- (e) **Basis of Cost Applicable for Markup.** The cost to which overhead is to be applied shall be developed in accordance with Sections 7.02B.7.a through 7.02B.7.e.
- g. **Allowance for Profit.** This allowance for profit is an amount to be added to the cost of any change in contract sum, but not to the cost of change in Contract Time for which contractor has been compensated pursuant to the conditions set forth in Section 7.03. It shall be limited to a reasonable amount, mutually acceptable, or if none can be agreed upon, to an amount not to exceed the rates below:
- (1) **Contractor/Subcontractor Markup for Self-Performed Work.** For Contractor or Subcontractor of any tier for work performed by their forces, six percent (6%) of the cost developed in accordance with Sections 7.02B.7.a through 7.02B.7.e.
- (2) **Contractor/Subcontractor Markup for Work Performed at Lower Tier.** For Contractor or Subcontractor of any tier for work performed by a subcontractor of a lower tier, shall not exceed four percent (4%) of the subcontract cost developed in accordance with Sections 7.02B.7.a through 7.02B.7.h.
- h. **Insurance and Bond Premiums.** Cost of change in insurance or bond premium. This is defined as:
- (1) **Contractor's Liability Insurance.** The cost of any changes in Contractor's liability insurance arising directly from execution of the Change Order; and
- (2) **Payment and Performance Bond.** The cost of the additional premium for Contractor's bond arising directly from the changed Work.
- The cost of any change in insurance or bond premium shall be added after overhead and allowance for profit are calculated in accordance with Sections 7.02B.7.f and 7.02B.7.g.
- C. **Change Order Pricing -- Unit Prices**
1. **Content of Owner authorization.** Whenever Owner authorizes Contractor to perform Work on a unit-price basis, Owner's authorization shall clearly state:
- a. **Scope.** Scope of work to be performed;
- b. **Reimbursement Basis.** Type of reimbursement including pre-agreed rates for material quantities; and
- c. **Reimbursement Limit.** Cost limit of reimbursement.
2. **Contractor Responsibilities.** Contractor shall:
- a. Cooperate with owner and assist in monitoring the work being performed. As requested by Owner, Contractor shall identify workers assigned to the Change Order Work and areas in which they are working;
- b. Leave access as appropriate for quantity measurement; and
- c. Not exceed any cost limit(s) without Owner's prior written approval.
3. **Cost Breakdown Consistent with Fixed Price Requirements.** Contractor shall submit costs in accordance with Section 7.02B and satisfy the following requirements:
- a. **Unit Prices Must Include Overhead, Profit, Bond and Insurance Premiums.** Unit prices shall include reimbursement for all direct and indirect costs of the Work, including overhead, profit, bond, and insurance costs; and
- b. **Owner Verification of Quantities.** Quantities must be supported by field

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- measurement statements approved by Owner.
- D. **Change Order Pricing -- Time-and-Material Prices**
1. **Content of Owner Authorization.** Whenever Owner authorizes Contractor to perform Work on a time-and-material basis, Owner's authorization shall clearly state:
 - a. **Scope.** Scope of Work to be performed;
 - b. **Reimbursement Basis.** Type of reimbursement including pre-agreed rates, if any, for material quantities or labor; and
 - c. **Reimbursement Limit.** Cost limit of reimbursement.
 2. **Contractor responsibilities.** Contractor shall:
 - a. **Identify Workers Assigned.** Cooperate with Owner and assist in monitoring the Work being performed. As requested by Owner, identify workers assigned to the Change Order Work and areas in which they are working;
 - b. **Provide Daily Timesheets.** Identify on daily time sheets all labor performed in accordance with this authorization. Submit copies of daily time sheets within two (2) business days for Owner's review;
 - c. **Allow Owner to Measure Quantities.** Leave access as appropriate for quantity measurement;
 - d. **Perform Work Efficiently.** Perform all Work in accordance with this Section as efficiently as possible; and
 - e. **Not Exceed Owner's Cost Limit.** Not exceed any cost limit(s) without Owner's prior written approval.
 3. **Cost Breakdown Consistent with Fixed Price Requirements.** Contractor shall submit costs in accordance with Section 7.02B and additional verification supported by:
 - a. **Timesheets.** Labor detailed on daily time sheets; and
 - b. **Invoices.** Invoices for material.
- A. **COP Requests for Contract Time.** The Contract Time shall only be changed by a Change Order. Contractor shall include any request for a change in the Contract Time in its Change Order Proposal.
- B. **Time Extension Permitted If Not Contractor's Fault.** If the time of Contractor's performance is changed due to an act of Force Majeure, or due to the fault or negligence of Owner or anyone for whose acts Owner is responsible, Contractor shall be entitled to make a request for an equitable adjustment in the Contract Time in accordance with the following procedure. No adjustment in the Contract Time shall be allowed to the extent Contractor's changed time of performance is due to the fault or negligence of Contractor, or anyone for whose acts Contractor is responsible.
1. **Notice and Record Keeping for Contract Time Request.** A request for an equitable adjustment in the Contract Time shall be based on written notice delivered within seven (7) Days of the occurrence of the event giving rise to the request. If Contractor believes it is entitled to adjustment of Contract Time, Contractor shall immediately notify Owner and begin to keep and maintain complete, accurate, and specific daily records. Contractor shall give Owner access to any such record and if requested, shall promptly furnish copies of such record to Owner.
 2. **Timing and Content of Contractor's Notice.** Contractor shall not be entitled to an adjustment in the Contract Time for any events that occurred more than seven (7) Days before Contractor's written notice to Owner. The written notice shall set forth, at a minimum, a description of: the event giving rise to the request for an equitable adjustment in the Contract Time; the nature of the impacts to Contractor and its Subcontractors of any tier, if any; and to the extent possible the amount of the adjustment in Contract Time requested. Failure to properly give such written notice shall, to the extent Owner's interests are prejudiced, constitute a waiver of Contractor's right to an equitable adjustment.
 3. **Contractor to Provide Supplemental Information.** Within thirty (30) Days of the occurrence of the event giving rise to the request, unless Owner agrees in writing to allow an additional period of time to ascertain

7.03 CHANGE IN THE CONTRACT TIME

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- more accurate data, Contractor shall supplement the written notice provided in accordance with Section 7.03B.2 with additional supporting data. Such additional data shall include, at a minimum: the amount of delay claimed, itemized in accordance with the procedure set forth herein; specific facts, circumstances, and analysis that confirms not only that Contractor suffered the delay claimed, but that the delay claimed was actually a result of the act, event, or condition complained of, and that the Contract Documents provide entitlement to an equitable adjustment in Contract Time for such act, event, or condition; and supporting documentation sufficiently detailed to permit an informed analysis of the request by Owner. Failure to provide such additional information and documentation within the time allowed or within the format required shall, to the extent Owner's interests are prejudiced, constitute a waiver of Contractor's right to an equitable adjustment.
4. **Contractor to Proceed with Work as Directed.** Pending final resolution of any request in accordance with this Section, unless otherwise agreed in writing, Contractor shall proceed diligently with performance of the Work.
- C. **Contractor to Demonstrate Impact on Critical Path of Schedule.** Any change in the Contract Time covered by a Change Order or based on a request for an equitable adjustment in the Contract Time, shall be limited to the change in the critical path of Contractor's schedule attributable to the change of Work or event(s) giving rise to the request for equitable adjustment. Any Change Order Proposal or request for an adjustment in the Contract Time shall demonstrate the impact on the critical path of the schedule. Contractor shall be responsible for showing clearly on the Progress Schedule that the change or event: had a specific impact on the critical path, and except in case of concurrent delay, was the sole cause of such impact; and could not have been avoided by resequencing of the Work or other reasonable alternatives.
- D. **Cost of Change in Contract Time.** Contractor may request compensation for the cost of a change in Contract Time in accordance with this Section, 7.03.D, subject to the following conditions:
1. **Must Be Solely Fault of Owner Or A/E.** The change in Contract Time shall solely be caused by the fault or negligence of Owner or A/E;
 2. **Procedures.** Contractor shall follow the procedure set forth in Section 7.03B;
 3. **Demonstrate Impact on Critical Path.** Contractor shall establish the extent of the change in Contract Time in accordance with Section 7.03C; and
 4. **Limitations on Daily Costs.** The daily cost of any change in Contract Time shall be limited to the items below, less the amount of any change in the Contract Sum the Contractor may otherwise be entitled to pursuant to Section 7.02B.7.f for any change in the Work that contributed to this change in Contract Time:
 - a. **Non-Productive Supervision of Labor.** Cost of nonproductive field supervision or labor extended because of the delay;
 - b. **Weekly Meetings and Indirect Activities.** Cost of weekly meetings or similar indirect activities extended because of the delay;
 - c. **Temporary Facilities or Equipment Rental.** Cost of temporary facilities or equipment rental extended because of the delay;
 - d. **Insurance Premiums.** Cost of insurance extended because of the delay;
 - e. **Overhead.** General and administrative overhead in an amount to be agreed upon, but not to exceed three percent (3%) of the Contract Award Amount divided by the originally specified Contract Time for each Day of the delay.
- PART 8: CLAIMS AND DISPUTE RESOLUTION
- 8.01 CLAIMS
- A. **A Claim is Contractor's Remedy.** If the parties fail to reach agreement on the terms of any Change Order for Owner-directed Work as provided in Section 7.01, on the resolution of any request for an equitable adjustment in the Contract Sum as provided in Section 7.02, the Contract Time as provided in Section 7.03, or any dispute interpretation of the parties respective obligations and duties under the Contract documents Contractor's only remedy shall be to

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- file a Claim with Owner as provided in this Section.
- B. **Claim Filing Deadline for Contractor.** Contractor shall file its Claim within one-hundred-twenty (120) Days from Owner's final offer made in accordance with Section 7.01E or by the date of Final Acceptance, whichever occurs first.
- C. **Claim Must Cover All Costs and Be Documented.** The Claim shall be deemed to cover all changes in cost and time (including direct, indirect, impact, and consequential) to which Contractor may be entitled. It shall be fully substantiated and documented. At a minimum, the Claim shall contain the following information:
1. **Factual Statement of Claim.** A detailed factual statement of the Claim for additional compensation and time, if any, providing all necessary dates, locations, and items of Work affected by the Claim;
 2. **Dates.** The date on which facts arose that gave rise to the claim;
 3. **Owner and A/E Employee's Knowledgeable About Claim.** The name of each employee of Owner or A/E knowledgeable about the Claim;
 4. **Support from Contract Documents.** The specific provisions of the Contract Documents which support the Claim;
 5. **Identification of Other Supporting Information.** The identification of any documents and the substance of any oral communications that support the Claim;
 6. **Copies of Supporting Documentation.** Copies of any identified documents, other than the Contract Documents, which support the Claim;
 7. **Details on Claim for Contract Time.** If an adjustment in the Contract Time is sought: the specific days and dates for which it is sought; the specific reasons Contractor believes an extension in the Contract Time should be granted; and Contractor's analysis of its Progress Schedule to demonstrate the reason for the extension in Contract Time;
8. **Details on Claim.** for adjustment of Contract Sum: If an adjustment in the Contract Sum is sought, the exact amount sought and a breakdown of that amount into the categories set forth in, and in the detail as required by Section 7.02; and
9. **Statement Certifying Claim.** A statement certifying, under penalty of perjury, that the Claim is made in good faith, that the supporting cost and pricing data are true and accurate to the best of Contractor's knowledge and belief, that the Claim is fully supported by the accompanying data, and that the amount requested accurately reflects the adjustment in the Contract Sum or Contract Time for which Contractor believes Owner is liable.
- D. **Response to Claim Filed.** After Contractor has submitted a fully documented Claim that complies with all applicable provisions of Parts 7 and 8, Owner's Contract Compliance Specialist ("CCS"), or their designee, shall respond, in writing, to Contractor as follows:
1. **Response Time for Claim Less Than \$50,000.** If the Claim amount is less than \$50,000, with a decision within sixty (60) Days from the date the Claim is received; or
 2. **Response Time for Claim Of \$50,000 Or More.** If the Claim amount is \$50,000 or more, with a decision within sixty (60) Days from the date the Claim is received, or with notice to Contractor of the date by which it will render its decision. Owner will then respond with a written decision in such additional time.
- E. **Review of Claim and Finality of Decision.** To assist in the review of Contractor's Claim, Owner's CCS, or their designee, may visit the Project site, or request additional information, in order to fully evaluate the issues raised by the Claim. Contractor shall proceed with performance of the Work pending final resolution of any Claim. Owner's CCS' written decision as set forth above shall be final and conclusive as to all matters set forth in the Claim, unless Contractor follows the procedure set forth in Section 8.02.
- F. **Waiver of Contractor Rights for Failure to Comply with This Section.** Any Claim of the Contractor against the Owner for damages, additional compensation, or additional time, shall be conclusively deemed to have been waived by

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- the Contractor unless made in accordance with the requirements of this Section.
- G. **Finality of Decision.** The CCS' decision shall be final and conclusive unless within ten (10) Days from the date of receipt of its copy, the Contractor mails or otherwise furnishes a written appeal to the Chief Executive Officer ("CEO") of STA. STA's CEO review of the Contracting Officer's decision is limited to a review and decision issued on the same record presented to the Contracting Officer.
- H. **Appeal Procedure.** In connection with appeal to CEO, the Contractor shall be afforded an opportunity to be heard and to offer evidence in support of its position. Pending final decision of a dispute hereunder, the Contractor shall proceed diligently with the performance of this Contract while matters in dispute are being resolved. The final decision of the CEO shall be binding upon the Contractor and the Contractor shall abide by the decision. The only available review is by an arbitrator as provided below and the applicable standard of review is whether the CEO's decision was arbitrary and capricious.
- ### 8.02 ARBITRATION
- A. **Timing of Contractor's Demand for Review of CEO's Decision by Third-Party Neutral (Arbitration).** If Contractor disagrees with CEO's decision rendered in accordance with Section 8.01H, Contractor shall provide Owner with a written demand for review by a third-party neutral (arbitration). No demand for arbitration of any such Claim shall be made later than thirty (30) Days after the date of the CEO's decision on such Claim. Failure to demand arbitration within said thirty (30) Day period shall result in the CEO's decision being final and binding upon Contractor and its Subcontractors.
- B. **Selection of The Third-Party Neutral (Arbitrator).** The parties shall mutually select a third-party neutral to review the parties' claims within the confines of the decision issued by the CEO. If the parties are unable to mutually select a third-party neutral, they shall each appoint a neutral and the two appointed neutrals shall agree to the appointment of the third-party neutral who will preside over the matter.
- C. **Standard of Review.** The arbitrator's review shall be limited to determining whether the CEO acted arbitrarily and capriciously in issuing its decision. Decisions issued under the Administrative Procedures Act may guide the arbitrator in determining whether the CEO acted arbitrarily and capriciously.
- D. **Costs of Arbitration.** The costs of arbitration will be borne by the party against whom judgment is issued. To the extent neither party substantially prevails at arbitration, the parties will split equally the costs associated with the arbitration.
- E. **Arbitration is Forum for Resolving Claims Other Than Those Identified Under Part 8 Above.** All Claims arising out of the Work shall be resolved by arbitration. The judgment upon the arbitration award may be entered, or review of the award may occur, in the superior court having jurisdiction thereof. No independent legal action relating to or arising from the Work shall be maintained.
- F. **Owner May Combine Claims into Same Arbitration.** Claims between Owner and Contractor, Contractor and its Subcontractors, Contractor and A/E, and Owner and A/E shall, upon demand by Owner, be submitted in the same arbitration or mediation.
- G. **Settlement Outside of Arbitration to Be Documented in Change Order.** If the parties resolve the Claim prior to arbitration judgment, the terms of the resolution shall be incorporated in a Change Order. The Change Order shall constitute full payment and final settlement of the Claim, including all claims for time and for direct, indirect, or consequential costs, including costs of delays, inconvenience, disruption of schedule, or loss of efficiency or productivity.
- ### 8.03 CLAIMS AUDITS
- A. **Owner May Audit Claims.** All Claims filed against Owner shall be subject to audit at any time following the filing of the Claim. Failure of Contractor, or Subcontractors of any tier, to maintain and retain sufficient records to allow Owner to verify all or a portion of the Claim or to permit Owner access to the books and records of Contractor, or Subcontractors of any tier, shall constitute a waiver of the Claim and shall bar any recovery.
- B. **Contractor to Make Documents Available.** In support of Owner audit of any Claim, Contractor

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shall, upon request, promptly make available to Owner the following documents:

1. Daily time sheets and supervisor's daily reports;
2. Collective bargaining agreements;
3. Insurance, welfare, and benefits records;
4. Payroll registers;
5. Earnings records;
6. Payroll tax forms;
7. Material invoices, requisitions, and delivery confirmations;
8. Material cost distribution worksheet;
9. Equipment records (list of company equipment, rates, etc.);
10. Vendors', rental agencies', Subcontractors', and agents' invoices;
11. Contracts between Contractor and each of its Subcontractors, and all lower-tier Subcontractor contracts and supplier contracts;
12. Subcontractors' and agents' payment certificates;
13. Cancelled checks (payroll and vendors);
14. Job cost report, including monthly totals;
15. Job payroll ledger;
16. Planned resource loading schedules and summaries;
17. General ledger;
18. Cash disbursements journal;
19. Financial statements for all years reflecting the operations on the Work. In addition, the Owner may require, if it deems it appropriate, additional financial statements for 3 years preceding execution of the Work;
20. Depreciation records on all company equipment whether these records are maintained by the company involved, its accountant, or others;
21. If a source other than depreciation records is used to develop costs for Contractor's internal purposes in establishing the actual cost of owning and operating equipment, all such other source documents;

22. All nonprivileged documents which relate to each and every Claim together with all documents which support the amount of any adjustment in Contract Sum or Contract Time sought by each Claim;

23. Work sheets or software used to prepare the Claim establishing the cost components for items of the Claim including but not limited to labor, benefits and insurance, materials, equipment, Subcontractors, all documents which establish the time periods, individuals involved, the hours for the individuals, and the rates for the individuals; and

24. Work sheets, software, and all other documents used by Contractor to prepare its Bid.

- C. **Contractor to Provide Facilities for Audit and Shall Cooperate.** The audit may be performed by employees of Owner or a representative of Owner. Contractor, and its Subcontractors, shall provide adequate facilities acceptable to Owner, for the audit during normal business hours. Contractor, and all Subcontractors, shall make a good faith effort to cooperate with Owner's auditors.

PART 9: TERMINATION OF THE WORK

9.01 TERMINATION BY OWNER FOR CAUSE

- A. **Seven (7) Day Notice to Terminate for Cause.** Owner may, upon seven (7) Days written notice to Contractor and to its surety, terminate (without prejudice to any right or remedy of Owner) the Work, or any part of it, for cause upon the occurrence of any one or more of the following events:

1. **Contractor Fails to Prosecute Work.** Contractor fails to prosecute the Work or any portion thereof with sufficient diligence to ensure Substantial Completion of the Work within the Contract Time;
2. **Contractor Bankrupt.** Contractor is adjudged bankrupt, makes a general assignment for the benefit of its creditors, or a receiver is appointed on account of its insolvency;
3. **Contractor Fails to Correct Work.** Contractor fails in a material way to replace or correct Work not in conformance with the Contract Documents;

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4. **Contractor Fails to Supply Workers or Materials.** Contractor repeatedly fails to supply skilled workers or proper materials or equipment;
 5. **Contractor Failure to Pay Subcontractors or Labor.** Contractor repeatedly fails to make prompt payment due to Subcontractors or for labor;
 6. **Contractor Violates Laws.** Contractor materially disregards or fails to comply with laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction; or
 7. **Contractor in Material Breach of Contract.** Contractor is otherwise in material breach of any provision of the Contract Documents.
- B. **Owner's Actions Upon Termination.** Upon termination, Owner may at its option:
1. **Take Possession of Project Site.** Take possession of the Project site and take possession of or use all materials, equipment, tools, and construction equipment and machinery thereon owned by Contractor to maintain the orderly progress of, and to finish, the Work;
 2. **Accept Assignment of Subcontracts.** Accept assignment of subcontracts pursuant to Section 5.20; and
 3. **Finish the Work.** Finish the Work by whatever other reasonable method it deems expedient.
- C. **Surety's Role.** Owner's rights and duties upon termination are subject to the prior rights and duties of the surety, if any, obligated under any bond provided in accordance with the Contract Documents.
- D. **Contractor's Required Actions.** When Owner terminates the Work in accordance with this Section, Contractor shall take the actions set forth in Section 9.02B and shall not be entitled to receive further payment until the Work is accepted.
- E. **Contractor to Pay for Unfinished Work.** If the unpaid balance of the Contract Sum exceeds the cost of finishing the Work, including compensation for A/E's services and expenses made necessary thereby and any other extra costs or damages incurred by Owner in completing the Work, or as a result of Contractor's actions, such excess shall be paid to Contractor. If such costs exceed the unpaid balance, Contractor shall pay the difference to Owner. These obligations for payment shall survive termination.
- F. **Contractor and Surety Still Responsible for Work Performed.** Termination of the Work in accordance with this Section shall not relieve Contractor or its surety of any responsibilities for Work performed.
- G. **Conversion Of "Termination for Cause" To "Termination for Convenience".** If Owner terminates Contractor for cause, and it is later determined that none of the circumstances set forth in Section 9.01A exist, then such termination shall be deemed a termination for convenience pursuant to Section 9.02.
- 9.02 **TERMINATION BY OWNER FOR CONVENIENCE**
- A. **Owner Notice of Termination for Convenience.** Owner may, upon written notice, terminate (without prejudice to any right or remedy of Owner) the Work, or any part of it, for the convenience of Owner.
- B. **Contractor Response to Termination Notice.** Unless Owner directs otherwise, after receipt of a written notice of termination for either cause or convenience, Contractor shall promptly:
1. **Cease Work.** Stop performing Work on the date and as specified in the notice of termination;
 2. **No Further Orders or Subcontracts.** Place no further orders or subcontracts for materials, equipment, services or facilities, except as may be necessary for completion of such portion of the Work as is not terminated;
 3. **Cancel Orders and Subcontracts.** Cancel all orders and subcontracts, upon terms acceptable to Owner, to the extent that they relate to the performance of Work terminated;
 4. **Assign Orders and Subcontracts to Owner.** Assign to Owner all of the right, title, and interest of Contractor in all orders and subcontracts;
 5. **Take Action to Protect the Work.** Take such action as may be necessary or as directed by Owner to preserve and protect the Work, Project site, and any other property related to this Project in the possession of Contractor in which Owner has an interest; and

Public Works General Conditions

6. **Continue Performance Not Terminated.** Continue performance only to the extent not terminated.
 7. **Owner's Property.** If the Contractor has any property in its possession belonging to STA, the Contractor will account for the same, and return it to STA or dispose of it in the manner STA directs.
- C. **Terms of Adjustment in Contract Sum If Contract Terminated.** If Owner terminates the Work or any portion thereof for convenience, Contractor shall be entitled to make a request for an equitable adjustment for its reasonable direct costs incurred prior to the effective date of the termination, plus a reasonable allowance for overhead and profit on Work performed prior to termination, plus the reasonable administrative costs of the termination, but shall not be entitled to any other costs or damages, whatsoever, provided however, the total sum payable upon termination shall not exceed the Contract Sum reduced by prior payments. Contractor shall be required to make its request in accordance with the provisions of Part 7.
- D. **Owner to Determine Whether to Adjust Contract Time.** If Owner terminates the Work or any portion thereof for convenience, the Contract Time shall be adjusted as determined by Owner.

PART 10: MISCELLANEOUS PROVISIONS

10.01 GOVERNING LAW & VENUE

The Contract Documents and the rights of the parties herein shall be governed by the laws of the state of Washington. Venue shall be in the Superior Court of Spokane County, Washington.

10.02 COMPLIANCE WITH LAWS

Each Party to this Agreement shall comply with all applicable federal, state and local laws and regulations.

10.03 SUCCESSORS AND ASSIGNS

Owner and Contractor respectively bind themselves, their partners, successors, assigns and legal representatives to the other party hereto and to partners, successors, assigns and legal representatives of such other party in respect to covenants, agreements and obligations contained in the Contract Documents. Neither party shall assign the Work without written

consent of the other. If either party attempts to make such an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations set forth in the Contract Documents.

10.04 MEANING OF WORDS

Unless otherwise stated in the Contract Documents, words which have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings. Reference to standard specifications, manuals, or codes of any technical society, organization, or association, or to the code of any governmental authority, whether such reference be specific or by implication, shall be to the latest standard specification, manual, or code in effect on the date for submission of bids, except as may be otherwise specifically stated. Wherever in these Drawings and Specifications an article, device, or piece of equipment is referred to in the singular manner, such reference shall apply to as many such articles as are shown on the drawings or required to complete the installation.

10.05 EMPLOYEE SOLICITATION

Contractor, without the written consent of Owner, shall not directly or indirectly solicit, influence, entice or hire or attempt to solicit, influence, entice or hire any employee of Owner to: (a) cease employment with Owner; or (b) do business related to a business connected with the Contractor's business during this Agreement and for a period of three (3) years from the date on which the Agreement terminates, or the Work is accepted by Owner, whichever is earlier. Owner's employees shall be deemed to be related to or connected with a Contractor if such Owner employee becomes (a) a partner in a general or limited partnership or employee of a partnership; or (b) a shareholder, officer, employee or director of a corporation, member, consultant or agent for the Contractor or any of Contractor's affiliates, subsidiaries or connected business. This Section shall survive the termination of the Contract. This Contract is not restricted to any geographical area.

Contractor recognizes and acknowledges that Owner's employees may receive training and other benefits from its contractual relationship with Owner because of Owner's assignment of employees to work in connection with the Contract. Contractor agrees the restrictions on soliciting,

influencing, enticing or hiring Owner employees are reasonable.

10.06 RIGHTS AND REMEDIES

No action or failure to act by Owner or A/E shall constitute a waiver of a right or duty afforded them under the Contract Documents, nor shall action or failure to act constitute approval or an acquiescence in a breach therein, except as may be specifically agreed in writing.

10.07 CONTRACTOR REGISTRATION

Pursuant to RCW 39.06, Contractor shall be registered or licensed as required by the laws of the State of Washington, including but not limited to RCW 18.27.

10.08 TIME COMPUTATIONS

When computing any period of time, the day of the event from which the period of time begins shall not be counted. The last day is counted unless it falls on a weekend or legal holiday, in which event the period runs until the end of the next day that is not a weekend or holiday.

10.09 PUBLIC RECORDS ACT

Each Party to the Contract understands and acknowledges the Owner is a municipal corporation of the State of Washington subject to the “Public Records Act”, RCW 42.56 *et seq.*

Contractor understands and agrees that the records it obtains or produces under this Agreement may be public records under the Public Records Act, or its successor act. The Contractor shall cooperate in a timely manner with Owner in responding to a public records request (“PRR”) related to this Agreement or the goods/services provided under this Agreement. Such cooperation shall include searching all records regarding the Work and producing all records that are potentially responsive to a PRR to Owner. Contractor shall mark and segregate all materials in its possession that may be protected by the Public Records Act to protect against inadvertent disclosure of such documents and to facilitate Owner’s application of allowable Public Records Act exemptions. Contractor shall not charge Owner for the time spent gathering and producing records pursuant to a PRR.

10.10 RECORDS RETENTION

The wage, payroll and cost records of Contractor, and its Subcontractors created or used for the Project, shall be retained for a period of not less than six (6) years after the date of Final Acceptance.

10.11 THIRD-PARTY AGREEMENTS

The Contract Documents shall not be construed to create a contractual relationship of any kind between: A/E and Contractor; Owner and any Subcontractor, or any persons other than Owner and Contractor.

10.12 HEADINGS AND CAPTIONS

All headings and captions used in these GC are only for convenience of reference and shall not be used in any way in connection with the meaning, effect, interpretation, construction or enforcement of the GC, and do not define the limit or describe the scope or intent of any provision of these GC.

10.13 ANTITRUST ASSIGNMENT

Owner and Contractor recognize that in actual economic practice, overcharges resulting from antitrust violations are in fact usually borne by the purchaser. Therefore, Contractor hereby assigns to Owner any and all claims for such overcharges as to goods, materials and equipment purchased in connection with the Work performed in accordance with the Contract Documents, except as to overcharges which result from antitrust violations commencing after the Contract Sum is established and which are not passed on to Owner under a Change Order. Contractor shall put a similar clause in its Subcontracts, and require a similar clause in its sub-Subcontracts, such that all claims for such overcharges on the Work are passed to Owner by Contractor.

10.14 CONFLICT OF INTEREST

No employee, officer or agent of Owner shall participate in the selection, award or administration of the Contract if a conflict of interest, real or apparent, would be involved. Such conflict would arise when:

- A. The employee, officer or agent;
- B. any member of his or her immediate family;
- C. his or her partner; or
- D. an organization which employs, or is about to employ, an employee, officer or agent of STA

has a financial interest in the firm, Contractor or Subcontractors, of any tier, selected for Award.

10.15 COUNTERPARTS

The Contract may be executed in one or more counterparts, each of which shall constitute an original Contract, but all of which together shall constitute one and the same instrument.

10.16 ELECTRONIC SIGNATURES

A signed copy of this Agreement or any other ancillary agreement transmitted by facsimile, email or other means of electronic transmission shall be deemed to have the same legal effect as delivery of any original executed copy of this Agreement or such other ancillary agreement for all purposes.

END OF SECTION 007200

SECTION 007300 - Supplemental Conditions

1. FEDERAL ASSISTANCE

This Project is NOT funded, in whole or in part, by Federal Assistance.

2. LIQUIDATED DAMAGES

The Contractor agrees to pay to STA liquidated damages in the amount of \$224.00 for each Day the Contractor fails to provide services or respond to an STA request for services hereinafter provided. These liquidated damages are for the purpose of any delay or impact caused to STA by virtue of the Contractor's acts or omissions and do not cover any other actual or consequential damages other than delay. STA and the Contractor agree that such damages cannot be reasonably determined at this time. Such damages are very difficult to accurately estimate because of numerous factors, including, but not limited to inconvenience to STA. Further, the Parties agree this is a reasonable forecast of all factors now known and available for consideration relating to the delay caused by Contractor's failure to perform. Liquidated damages shall be deducted from the Contract by Change Order.

3. RULE 171 – WAC 458-20-171

This Project qualifies as "public road construction" as described in WAC 458-20-171 ("Rule 171"), and therefore only materials used or consumed by the Contractor are subject to sales tax.

The Contractor shall pay all taxes, including sales tax, for the work or portions thereof provided by the Contractor and such taxes shall be included in the Contract amount.

State of Washington sales tax is payable on the "selling price" or "gross proceeds of sale" of the "tangible personal property" as these terms are defined in WAC 458-20-107 (Rule 107), except as excluded by WAC 458-20-171.

Contractors are advised that they are considered the end consumers of all material, including prefabricated and pre-cast items, equipment and supplies used or consumed by them in performing the Work, and must pay any applicable retail sales tax/use tax to their material men and suppliers. In order to maximize the sales tax exemption, Contractors are encouraged to have all material delivered to the job site for consumption. If the Contractor has questions about the application of Rule 171, the Contractor is advised to contact the Washington State Department of Revenue. However, any such communications must be communicated to STA's Director of Finance, prior to making contact with the Department of Revenue.

The Contract Amount must include labor, overhead, profit and applicable sales tax on material, pursuant to Rule 171. Contractors are cautioned against paying sales tax more than once on materials used or consumed, such as by paying sales tax to material men or suppliers, and again remitting sales tax to the state on total costs.

All applicable taxes which the Contractors are required to pay, including retail sales/use tax as specified above, shall be included by them in the Bid prices for the Work covered by their Bid. No adjustment will be made in the amount to be paid by STA under the Contract because of any misunderstanding by, or lack of knowledge of, the Bidder as to their liability for, or the amount of, any taxes or because of any increases in tax rates imposed by any federal, state or local government.

END OF SECTION 007300

Date

007300-1

V 120619

SECTION 007346.1 – WA PREVAILING WAGE RATES – SPOKANE COUNTY

In the preparation of its Bid, based on these specifications, the Bidder is solely responsible to:

1. Use the prevailing wage schedule in effect for the Bid Due Date; and
2. Determine the appropriate labor classification(s); and
3. Utilize the appropriate and correct prevailing wage and benefit rate(s).

The State of Washington, Department of Labor and Industries issues revised wage schedules twice per year (every 6 months) which become effective approximately the first of March and the last of August. The wage schedule that will apply to this solicitation will be the schedule in effect as of the Bid Due Date. Therefore, the Bidder is cautioned to be mindful that Addenda changing the Bid Due Date could make the enclosed schedule obsolete. The Bidder is solely responsible to determine what schedule is applicable to this solicitation and to use that schedule in the preparation of its Bid.

The Prevailing Wage Documents for Public Works from the Washington State Department of Labor and Industries for Spokane County may be found on the Department of Labor and Industries website located at: <https://secure.lni.wa.gov/wagelookup>. Printed copies of the current prevailing wage schedules and forms are available by contacting STA in accordance with subsection 3 of Section 002100 – Instructions to Bidders.

Questions regarding prevailing wages should be directed to the State of Washington, Department of Labor & Industries, located at 901 N. Monroe St., Suite 100, Spokane, Washington, (509) 324-2600; or to PO Box 44540, Olympia WA 98504-4540; (360) 902-5335.

END OF SECTION 007346.1

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INTRODUCTION

This Contract shall be constructed in accordance with the 2024 Standard Specifications for Road, Bridge, and Municipal Construction.

SPECIAL PROVISIONS

Several types of Special Provisions are included in this contract; General, Region, Bridges and Structures, and Project Specific. Special Provisions types are differentiated as follows:

(date)	General Special Provision
(*****)	Notes a revision to a General Special Provision and also notes a Project Specific Special Provision.
(Regions ¹ date)	Region Special Provision

General Special Provisions are similar to Standard Specifications in that they typically apply to many projects, usually in more than one Region. Usually, the only difference from one project to another is the inclusion of variable project data, inserted as a “fill-in”.

Region Special Provisions are commonly applicable within the designated Region. Region designations are as follows:

<u>Regions¹</u>	
ER	Eastern Region
NCR	North Central Region
NWR	Northwest Region
OR	Olympic Region
SCR	South Central Region
SWR	Southwest Region
WSF	Washington State Ferries Division

Project Specific Special Provisions normally appear only in the contract for which they were developed.

Division 1
General Requirements

Control of Work
Conformity with and Deviations from Plans and Stakes

Section 1-05.4 is supplemented with the following:

(January 13, 2021)
Contractor Surveying - Roadway
The Contracting Agency has provided primary survey control in the Plans.

1 The Contractor shall be responsible for setting, maintaining, and resetting all alignment
2 stakes, slope stakes, and grades necessary for the construction of the roadbed, drainage,
3 surfacing, paving, channelization and pavement marking, illumination and signals,
4 guardrails and barriers, and signing. Except for the survey control data to be furnished
5 by the Contracting Agency, calculations, surveying, and measuring required for setting
6 and maintaining the necessary lines and grades shall be the Contractor's responsibility.

7
8 The Contractor shall inform the Engineer when monuments are discovered that were not
9 identified in the Plans and construction activity may disturb or damage the monuments.
10 All monuments noted on the plans "DO NOT DISTURB" shall be protected throughout the
11 length of the project or be replaced at the Contractors expense.

12
13 Detailed survey records shall be maintained, including a description of the work
14 performed on each shift, the methods utilized, and the control points used. The record
15 shall be adequate to allow the survey to be reproduced. A copy of each day's record shall
16 be provided to the Engineer within three working days after the end of the shift.

17
18 The meaning of words and terms used in this provision shall be as listed in "Definitions of
19 Surveying and Associated Terms" current edition, published by the American Congress
20 on Surveying and Mapping and the American Society of Civil Engineers.

21
22 The survey work shall include but not be limited to the following:

- 23
24 1. Verify the primary horizontal and vertical control furnished by the Contracting
25 Agency, and expand into secondary control by adding stakes and hubs as well
26 as additional survey control needed for the project. Provide descriptions of
27 secondary control to the Contracting Agency. The description shall include
28 coordinates and elevations of all secondary control points.
- 29
30 2. Establish, the centerlines of all alignments, by placing hubs, stakes, or marks on
31 centerline or on offsets to centerline at all curve points (PCs, PTs, and PIs) and
32 at points on the alignments spaced no further than 50 feet.
- 33
34 3. Establish clearing limits, placing stakes at all angle points and at intermediate
35 points not more than 50 feet apart. The clearing and grubbing limits shall be 5
36 feet beyond the toe of a fill and 10 feet beyond the top of a cut unless otherwise
37 shown in the Plans.
- 38
39 4. Establish grading limits, placing slope stakes at centerline increments not more
40 than 50 feet apart. Establish offset reference to all slope stakes. If Global
41 Positioning Satellite (GPS) Machine Controls are used to provide grade control,
42 then slope stakes may be omitted at the discretion of the Contractor
- 43
44 5. Establish the horizontal and vertical location of all drainage features, placing
45 offset stakes to all drainage structures and to pipes at a horizontal interval not
46 greater than 25 feet.
- 47
48 6. Establish roadbed and surfacing elevations by placing stakes at the top of
49 subgrade and at the top of each course of surfacing. Subgrade and surfacing
50 stakes shall be set at horizontal intervals not greater than 50 feet in tangent
51 sections, 25 feet in curve sections with a radius less than 300 feet, and at 10-

- 1 foot intervals in intersection radii with a radius less than 10 feet. Transversely,
- 2 stakes shall be placed at all locations where the roadway slope changes and at
- 3 additional points such that the transverse spacing of stakes is not more than 12
- 4 feet. If GPS Machine Controls are used to provide grade control, then roadbed
- 5 and surfacing stakes may be omitted at the discretion of the Contractor.
- 6
- 7 7. Establish intermediate elevation benchmarks as needed to check work
- 8 throughout the project.
- 9
- 10 8. Provide references for paving pins at 25-foot intervals or provide simultaneous
- 11 surveying to establish location and elevation of paving pins as they are being
- 12 placed.
- 13
- 14 9. For all other types of construction included in this provision, (including but not
- 15 limited to channelization and pavement marking, illumination and signals,
- 16 guardrails and barriers, and signing) provide staking and layout as necessary to
- 17 adequately locate, construct, and check the specific construction activity.
- 18
- 19 10. Contractor shall determine if changes are needed to the profiles or roadway
- 20 sections shown in the Contract Plans in order to achieve proper smoothness
- 21 and drainage where matching into existing features, such as a smooth transition
- 22 from new pavement to existing pavement. The Contractor shall submit these
- 23 changes to the Engineer for review and approval 10 days prior to the beginning
- 24 of work.
- 25

26 The Contractor shall provide the Contracting Agency copies of any calculations and

27 staking data when requested by the Engineer.

28

29 The Contractor shall ensure a surveying accuracy within the following tolerances:

30

	<u>Vertical</u>	<u>Horizontal</u>
31 Slope stakes	±0.10 feet	±0.10 feet
32 Subgrade grade stakes set		
33 0.04 feet below grade	±0.01 feet	±0.5 feet
34		(parallel to alignment)
35		±0.1 feet
36		(normal to alignment)
37		
38		
39 Stationing on roadway	N/A	±0.1 feet
40 Alignment on roadway	N/A	±0.04 feet
41 Surfacing grade stakes	±0.01 feet	±0.5 feet
42		(parallel to alignment)
43		±0.1 feet
44		(normal to alignment)
45		
46 Roadway paving pins for		
47 surfacing or paving	±0.01 feet	±0.2 feet
48		(parallel to alignment)
49		±0.1 feet
50		(normal to alignment)
51		

1 The Contracting Agency may spot-check the Contractor's surveying. These spot-checks
2 will not change the requirements for normal checking by the Contractor.

3
4 When staking roadway alignment and stationing, the Contractor shall perform
5 independent checks from different secondary control to ensure that the points staked are
6 within the specified survey accuracy tolerances.

7
8 The Contractor shall calculate coordinates for the alignment. The Contracting Agency will
9 verify these coordinates prior to issuing approval to the Contractor for commencing with
10 the work. The Contracting Agency will require up to seven calendar days from the date
11 the data is received.

12
13 Contract work to be performed using contractor-provided stakes shall not begin until the
14 stakes are approved by the Contracting Agency. Such approval shall not relieve the
15 Contractor of responsibility for the accuracy of the stakes.

16
17 Stakes shall be marked in accordance with Standard Plan A10.10. When stakes are
18 needed that are not described in the Plans, then those stakes shall be marked, at no
19 additional cost to the Contracting Agency as ordered by the Engineer.

20 21 **Payment**

22 Payment will be made for the following bid item when included in the proposal:

23
24 "Roadway Surveying", lump sum.

25
26 The lump sum contract price for "Roadway Surveying" shall be full pay for all labor,
27 equipment, materials, and supervision utilized to perform the Work specified, including
28 any resurveying, checking, correction of errors, replacement of missing or damaged
29 stakes, and coordination efforts.

30
31 **(March 9, 2023)**

32 **Contractor Surveying – ADA Features**

33 **ADA Feature Staking Requirements**

34 The Contractor shall be responsible for setting, maintaining, and resetting all
35 alignment stakes, and grades necessary for the construction of the ADA features.
36 Calculations, surveying, and measuring required for setting and maintaining the
37 necessary lines and grades shall be the Contractor's responsibility. The Contractor
38 shall build the ADA features within the specifications in the Standard Plans and
39 contract documents.

40 41 **ADA Feature Contract Compliance**

42 The Contractor shall be responsible for completing measurements to verify all ADA
43 features comply with the Contract in the presence of the Engineer.

44 45 **ADA Feature As-Built Measurements**

46 The Contractor shall be responsible for providing the latitude and longitude of each
47 ADA feature as indicated on the ADA Inspection Form(s) (WSDOT Form 224-020).

48
49 The completed ADA Inspection Form(s) (WSDOT Form 224-020) shall be submitted
50 as a Type 3 Working Drawing and transmitted to the Engineer within 30 calendar

1 days of completing the ADA feature. After acceptance, the Contracting Agency will
2 submit the final form(s) to the WSDOT ADA Steward.
3
4

5 ***Payment***

6 Payment will be made for the following bid item that is included in the Proposal:
7

8 "ADA Features Surveying", lump sum.
9

10 The lump sum Contract price for "ADA Features Surveying" shall be full pay for all the
11 Work as specified.
12

13 In the instance where an ADA feature does not meet accessibility requirements, all work
14 to replace non-compliant work and then to measure, record the as-built measurements,
15 and transmit the electronic forms to the Engineer shall be completed at no additional cost
16 to the Contracting Agency.
17

18 **Approval of Materials Prior to Use**

19
20 Section 1-06.1 is supplemented with the following:
21

22 (April 3, 2017)

23 For each proposed material that is required to be submitted for approval using either the
24 QPL or RAM process the Contractor will be allowed to submit for approval two material
25 sources or manufacturers per material type at no cost. Additional material sources or
26 manufacturers may be submitted for approval and will be processed at a cost of \$125.00
27 per material source or manufacturer submitted by QPL submittal and \$400.00 per material
28 submitted by RAM. All costs for processing additional material sources or manufacturers
29 will be deducted from monies due or that may come due to the Contractor. Subject to a
30 request by the Contractor and a determination by the Engineer the costs for processing
31 may be waived.
32

33 **Legal Relations and Responsibilities to the Public**

34 **Protection and Restoration of Property**

35 ***Private/Public Property***

36 **Private Property**

37
38
39 Section 1-07.16(1)C is supplemented with the following:
40
41

42 (October 3, 2022)

43 The Contractor shall not access the worksite from adjacent properties without
44 permission from the Engineer. The Contractor shall submit a Type 2 Working
45 Drawing to the Engineer in accordance with Section 1-05.3 prior to accessing
46 the project site from adjacent properties. The Working Drawing shall include the
47 methods, materials, equipment, and restoration measures used to access the
48 worksite.
49
50

1 ***Vegetation Protection and Restoration***

2
3 Section 1-07.16(2) is supplemented with the following:

4
5 (August 2, 2010)

6 Vegetation and soil protection zones for trees shall extend out from the trunk to a
7 distance of 1 foot radius for each inch of trunk diameter at breast height.

8
9 Vegetation and soil protection zones for shrubs shall extend out from the stems at
10 ground level to twice the radius of the shrub.

11
12 Vegetation and soil protection zones for herbaceous vegetation shall extend to
13 encompass the diameter of the plant as measured from the outer edge of the plant.

14
15 **Measurement and Payment**

16
17 **Weighing Equipment**

18
19 ***General Requirements for Weighing Equipment***

20
21 **Electronic Delivery Management System (E-Ticketing)**

22
23 **Equipment**

24
25 Item number 1 in the first paragraph of Section 1-09.2(1)A1 is revised to read:

26
27 (March 9, 2023)

- 28 1. The ETS shall generate an E-ticket in PDF format meeting the requirements
29 of 1-09.2(1)A2. The information shall be immediately uploaded to a
30 designated site so the information can be accessed by the Inspector located
31 at the material delivery site.

32
33 **Temporary Traffic Control**

34
35 **Traffic Control Management**

36
37 Section 1-10.2 is supplemented with the following:

38
39 ***(November 2, 2022)***

40 ***Work Zone Safety Contingency***

41 Enhancements to improve the effectiveness of the accepted traffic control plans to
42 increase the safety of the work zones shall be discussed on a weekly basis between the
43 Contractor and the Contracting Agency. Enhancements shall be mutually agreed upon by
44 the Contractor and Engineer prior to performing any Work to implement the enhancement.

45
46 Enhancements do not include the use of Uniformed Police Officers or WSP, address
47 changes to the allowed work hour restrictions, or changes to the staging plans in the
48 Contract (if applicable). If allowed by the Engineer, these items will be addressed in
49 accordance with Section 1-04.4.

1 The Contractor shall be solely responsible for submitting any traffic control plan revision
2 to implement the enhancement in accordance with Section 1-10.2(2).
3

4 **General**

5
6 Section 1-10.2(1) is supplemented with the following:
7

8 (October 3, 2022)

9 The Traffic Control Supervisor shall be certified by one of the following:

10
11 The Northwest Laborers-Employers Training Trust
12 27055 Ohio Ave.
13 Kingston, WA 98346
14 (360) 297-3035
15 <https://www.nwlett.edu>
16

17 Evergreen Safety Council
18 12545 135th Ave. NE
19 Kirkland, WA 98034-8709
20 1-800-521-0778
21 <https://www.esc.org>
22

23 The American Traffic Safety Services Association
24 15 Riverside Parkway, Suite 100
25 Fredericksburg, Virginia 22406-1022
26 Training Dept. Toll Free (877) 642-4637
27 Phone: (540) 368-1701
28 <https://atssa.com/training>
29

30 Integrity Safety
31 13912 NE 20th Ave.
32 Vancouver, WA 98686
33 (360) 574-6071
34 <https://www.integritysafety.com>
35

36 US Safety Alliance
37 (904) 705-5660
38 <https://www.ussafetyalliance.com>
39

40 K&D Services Inc.
41 2719 Rockefeller Ave.
42 Everett, WA 98201
43 (800) 343-4049
44 <https://www.kndservices.nethttps://www.ussafetyalliance.com/>
45

46 (January 5, 2015)

47 The primary TCS shall have a minimum of 500 hours of experience providing traffic
48 control as a TCS or traffic control labor on multilane highways with a speed limit of
49 55 mph or greater. The Contractor shall submit a certification of the TCS's
50 experience with the TCS designation. Documentation of experience shall be
51 available upon request by the Engineer.

1
2 **Traffic Control Devices**

3
4 **Sequential Arrow Signs (Arrow Boards)**

5
6 **Sequential Arrow Signs**

7 Section 9-35.4 is supplemented with the following:

8
9 **(October 3, 2022)**

10 **GPS and Remote Communications Requirements**

11 Sequential Arrow Signs (Arrow Boards) on this project shall also have the
12 following communication abilities:

- 13
14 1. Provide electronic Work Zone Data Exchange (WZDx) Specification
15 compliant data feeds to Contracting Agency from the arrow board or
16 the Arrow Boards central server.
17
18 2. Arrow Boards used on this project shall have the ability to transmit its
19 GPS coordinates (latitude and longitude) with an accuracy of 30-foot
20 diameter of its actual location.
21
22 3. Arrow Boards shall transmit its GPS coordinates and mode of operation
23 data to a compatible publicly accessible mapping app service.
24
25 4. Arrow Boards shall transmit status and location as follows:
26
27 a. Mode change within 2 minutes.
28
29 b. Location (if moved more than 500 feet) within 2 minutes.
30
31 c. Health checks every 30 minutes.
32
33 d. Current "indication" posted on Board (e.g., left or right chevron,
34 arrow direction, four corner flash, etc.).
35

36 If Arrow Board repairs are required, the Contractor shall control traffic with Arrow
37 Board without GPS and remote communication abilities, and the Arrow Board
38 needing repairs shall be repaired or replaced within 48 hours.

39
40 Arrow Boards shall be deactivated immediately when the unit is not in use in
41 accordance with the accepted traffic control plan.

42
43 Any data service costs for communications will be included in the unit cost per
44 hour for Sequential Arrow Sign.
45

46 **Measurement**

47
48 **Item Bids With Lump Sum for Incidentals**

49
50 Section 1-10.4(2) is supplemented with the following:
51

1 (August 2, 2004)

2 The bid proposal does not contain the item "Project Temporary Traffic Control," lump
3 sum. The provisions of Section 1-10.4(2) shall apply.

4 5 **Payment**

6 7 ***Item Bids with Lump Sum for Incidentals***

8
9 Section 1-10.5(2) is supplemented with the following:

10
11 (November 2, 2022)

12 "Work Zone Safety Contingency", by force account.

13
14 All costs as authorized by the Engineer will be paid for by force account as specified
15 in Section 1-09.6.

16
17 For purpose of providing a common proposal for all bidders, the Contracting Agency
18 has entered an amount for the item "Work Zone Safety Contingency" in the Proposal
19 to become a part of the Contractor's total bid.

20
21 The Engineer may choose to use existing bid items for the implementation of the
22 agreed upon enhancement.

23 24 **Division 2** 25 **Earthwork**

26 27 **Clearing, Grubbing, and Roadside Cleanup**

28 29 **Description**

30
31 Section 2-01.1 is supplemented with the following:

32
33 (March 13, 1995)

34 Clearing and grubbing on this project shall be performed within the following limits:

35
36 *** The limits as provided within the contract documents. ***

37 38 **Construction Requirements**

39 40 ***Clearing***

41
42 Item number 1 of Section 2-01.3(1) is revised to read:

43
44 (April 2, 2018)

- 45 1. Trees identified for removal shall be felled into the Contracting Agency right of
46 way or areas that will be cleared of vegetation.

47 48 **Removal of Structures and Obstructions**

Description

Section 2-02.1 is supplemented with the following:

(March 13, 1995)

This work shall consist of removing miscellaneous traffic items.

Construction Requirements

Section 2-02.3 is supplemented with the following:

(September 7, 2021)

Removal of Obstructions

The following miscellaneous Obstructions shall be removed and disposed of and/or reinstalled:

*** Measurement for Removal Of Structures And Obstructions is to include the removal the following items:

Station		Removed Item
4E	2849	--
4W	3007	--
8E	2859	--
8W	2865	BOLLARDS TO BE RESET IN NEW CONCRETE CURB
9E	2862	--
9W	2993	--
10W	2991	CHAINLINK FENCE
11W	2989	--
21E	2865	--
21W	2865	COSV SIGN, POST
22E	2867	STA BENCH
22W	2987	CABLE FENCE POLES (9)
23W	2985	--
24W	2982	--
25W	2980	POST-CABLE FENCE
26E	2878	WOOD FENCE
29E	2885	STA BENCH, STA SIGN, POLE
VTC		LOW CONCRETE STRUCTURE, TRASH CAN, *SHELTER EXTENSION, STA SIGN STRUCTURE

1 **SHELTER EXTENSION is to be removed and stored for reinstallation. Concrete below*
2 *structure is to be removed and replaced as shown in plans. Steel shelter extension is assumed*
3 *to need to be cut off with a grinder for concrete work. Steel shelter components are to be*
4 *reinstalled to original state, including welding and rust resistant white paint.*

5
6
7 ***

8
9 ***Removal of Pavement, Sidewalks, Curbs, and Gutters***

10
11 (September 8, 1997)

12 The approximate thickness of the *** existing sidewalk *** is *** 4 inches ***.

13
14 (*****)

15 ***Salvage of Removed Structure Items***

16 All *** Bus stop station structures *** of the existing bus stops being removed shall remain
17 the property of the Contracting Agency.

18 The Contractor shall transport the specified salvaged items to the following location as
19 identified by owner's representative.

20 The Contractor shall stack the material where directed by the Engineer. The Contractor
21 shall contact the Engineer at least five working days prior to scheduled delivery of the
22 items to confirm delivery arrangements.

23
24
25
26 **Subgrade Preparation**

27
28 **Construction Requirements**

29
30 ***Subgrade For Surfacing***

31
32 Section 2-06.3(1) is supplemented with the following:

33
34 (March 13, 1995)

35 The subgrade shall be trimmed with an automatically controlled machine.

36
37 **Division 5**
38 **Surface Treatments and Pavements**

39
40 **Crack and Joint Sealing**

41
42 **Construction Materials**

43
44 ***Sealing Bituminous Pavement***

45
46 **Longitudinal Joint Seal**

47
48 Section 5-03.3(2)B is revised to read:

49
50 (November 2, 2022)

When HMA is placed adjacent to cement concrete pavement, the Contractor shall construct longitudinal joints between the HMA and the cement concrete pavement. The joint shall be sawed to the dimensions shown on Standard Plan A-40.10 and filled with joint sealant meeting the requirements of Section 9-04.2(1)A.

Sealing Cement Concrete Pavement

Sealing Sawed Contraction Joints

Section 5-03.3(3)C is revised to read:

(February 6, 2023)

Sawed contraction joints shall be filled with a joint sealant conforming to the requirements of Section 9-04.2(1)A1. Sealant shall be a poured rubber joint sealer conforming to Section 9-04.2(2) when the Plans show a closed cell backer rod. The joint sealant shall be applied in two or more layers, if necessary. The joint sealant shall be applied under sufficient pressure to fill the groove from bottom to top and the cured joint sealant shall be between $\frac{1}{4}$ and $\frac{5}{8}$ inch below the top surface of the concrete.

Hot Mix Asphalt

Materials

How to Get an HMA Mix Design on the QPL

Mix Designs Containing RAP and/or RAS

High RAP/Any RAS – Mix Design Submittals for Placement on QPL

Section 5-04.2(1)A2 is revised to read:

(April 27, 2022)

For High RAP/Any RAS mix designs, comply with the following additional requirements:

1. All RAS will be manufactured waste RAS only.
2. For mix designs with any RAS, test the RAS stockpile (and RAP stockpile if any RAP is in the mix design) in accordance with Table 3.
3. For High RAP mix designs with no RAS, test the RAP stockpile in accordance with Table 3.
4. For mix designs with High RAP/Any RAS, construct a single stockpile for RAP and a single stockpile for RAS and isolate (sequester) these stockpiles from further stockpiling before beginning development of the mix design. Test the RAP and RAS during stockpile construction as required by item 1 and 2 above.

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Use the test data in developing the mix design and report the test data to the Contracting Agency on WSDOT Form 350-042 as part of the mix design submittal for approval on the QPL. Account for the reduction in asphalt binder contributed from RAP in accordance with AASHTO PP 78. Do not add RAP or RAS to the sequestered stockpiles after starting the mix design process, unless measures have been taken:

- a. Test samples of the RAP or RAS to be added to the sequestered stockpile in accordance with Table 3. A minimum of 5 tests of the RAP or RAS will be required each time additional material is added to the sequestered stockpiles.
- b. Evaluate and compare the test results from Section 4a to the results from the original sequestered stockpile properties from the mix design. Develop a written plan defining how the RAP/RAS will be incorporated into the sequestered stockpile without materially changing the binder grade or aggregate gradation properties of the sequestered stockpile. Submit the test results and incorporation plan to the Engineer for approval.

Table 3 Test Frequency of RAP/RAS During RAP/RAS Stockpile Construction for Approving a High RAP/Any RAS Mix Design for Placement on the QPL		
Test Frequency¹	Test for	Test Method
1/1000 tons of RAP (minimum of 10 per mix design) and 1/100 tons of RAS (minimum of 10 per mix design)	Asphalt Binder Content and Sieve Analysis of Fine and Coarse Aggregate	FOP for AASHTO T 308 and FOP for AASHTO T 30
1/400 tons of RAS (minimum of 5 per mix design)	Asbestos content <0.1%	PLM Test Method EPA/600/R-93/116 (1000 Point Count) See Section 9-03.21(1)A
1/200 tons of RAS (minimum of 5 per mix design)	Asbestos Containing Material (ACM) <1.0%	PLM Test Method EPA/600/R-93/116 See Section 9-03.21(1)A
¹ "tons", in this table, refers to tons of the reclaimed material before being incorporated into HMA.		

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5. Limit the amount of RAP and/or RAS used in a High RAP/Any RAS mix design by the amount of binder contributed by the RAP and/or RAS, in accordance with Table 4.

Table 4	Maximum Amount of RAP and/or RAS in HMA Mixture	
Maximum Amount of Binder Contributed from:		
RAP		RAS
40% ¹ minus contribution of binder from RAS		20% ²
¹ Calculated as the weight of asphalt binder contributed from the RAP as a percentage of the total weight of asphalt binder in the mixture.		
² Calculated as the weight of asphalt binder contributed from the RAS as a percentage of the total weight of asphalt binder in the mixture.		

6. Develop the mix design including RAP, RAS, recycling agent, and new binder.
7. Extract, recover, and test the asphalt residue from the RAP and RAS stockpiles to determine the percent of recycling agent and/or grade of new asphalt binder needed to meet but not exceed the performance grade (PG) of asphalt binder required by the Contract.
- a. Perform the asphalt extraction in accordance with AASHTO T 164 or ASTM D 2172 using reagent grade solvent.
 - b. Perform the asphalt recovery in accordance with AASHTO R 59 or ASTM D 1856.
 - c. Test the recovered asphalt residue in accordance with AASHTO R 29 to determine the asphalt binder grade in accordance with Section 9-02.1(4).
 - d. After determining the recovered asphalt binder grade, determine the percent of recycling agent and/or grade of new asphalt binder in accordance with ASTM D 4887.
 - e. Test the final blend of recycling agent, binder recovered from the RAP and RAS, and new asphalt binder in accordance with AASHTO R 29. The final blended binder shall meet but not exceed the performance grade of asphalt binder required by the Contract and comply with the requirements of Section 9-02.1(4).
8. Include the following test data with the mix design submittal:
- a. All test data from RAP and RAS stockpile construction.

- 1 b. A Safety Data Sheet (SDS) and documentation that no
- 2 asbestos has been added during production of the
- 3 manufactured waste shingles as detailed in Section 9-
- 4 03.21(1).
- 5
- 6 c. All data from testing the recovered and blended asphalt
- 7 binder.
- 8
- 9 9. Include representative samples of the following with the mix
- 10 design submittal:
- 11
- 12 a. RAP and RAS.
- 13
- 14 b. 150 grams of recovered asphalt residue from the RAP and
- 15 RAS that are to be used in the HMA production.
- 16

17 ***HMA Tolerances, Specification Limits and Adjustments***

18 The second paragraph of item number 1 of Section 9-03.8(7) is revised to read:

19
20 (September 8, 2020)

21 These tolerance and specification limits constitute the allowable limits as described
22 in Section 1-06.2. The tolerance limit for aggregate shall not exceed the limits of the
23 control points, except the No. 8 tolerance is $\pm 4\%$ from the JMF, the No. 200 tolerance
24 is $\pm 2.0\%$ from the JMF with a minimum of 2% and a maximum of 8.0% passing the
25 No. 200 sieve, other tolerance limits for sieves designated as 100 percent passing
26 will be 99-100.

27 28 ***Reclaimed Asphalt Shingles***

29 Section 9-03.21(1)A, including title, is revised to read:

30
31 (April 27, 2022)

32 ***Recycled Asphalt Shingles***

33 Recycled asphalt shingles shall be manufactured waste shingles and shall be non-
34 asbestos containing material (ACM) as defined in 40 CFR 61 Subpart M and tested
35 in accordance with 40 CFR part 763, subpart E, appendix E, Section 1, Polarized
36 Light Microscopy (PLM) Test Method EPA/600/R-93/116 by a certified testing
37 laboratory. The PLM Test Method to determine ACM content will be the standard PLM
38 Test Method to determine ACM less than 1.0%. Additionally, the PLM 1000 Point
39 Count Test Method to determine asbestos less than 0.1% is required. At a minimum,
40 the laboratory testing for asbestos content will be certified by one or more the
41 following: National Voluntary Laboratory Accreditation Program (NVLAP), American
42 Industrial Hygiene Association IH Laboratory Accreditation, or Washington State
43 Department of Ecology for analysis of asbestos in bulk material. The Contractor shall
44 keep all ACM and asbestos test results on file and provide copies to the Engineer
45 when submitting a HMA mix design for approval in accordance with Section 5-04.
46 The Contractor shall provide the testing and certification for toxicity characteristics in
47 accordance with Section 9-03.21(1) prior to delivery and placement of the recycled
48 asphalt shingles and use of the RAS in HMA. The Contractor shall also provide a
49 Safety Data Sheet (SDS) of the RAS specifically detailing all ingredients of the
50 manufactured waste shingles. The ingredients list needs to include the amount of
51 asbestos as well as all types of fibrous materials.

Construction Requirements

Weather Limitations

The first sentence of Section 5-04.3(1) is revised to read:

(August 3, 2009)

HMA for wearing course shall not be placed on any travelled way from *** October 15th *** and through March 31st of the following year without written approval from the Engineer.

Equipment

Mixing Plant

In the first paragraph of Section 5-04.3(3)A, item number 5 is revised to read:

(November 2, 2022)

5. Provide HMA sampling equipment that complies with FOP for AASHTO R97:

- Use a mechanical sampling device accepted by the Engineer, or
- Platforms or devices to enable sampling from the truck transport without entering the truck transport for sampling HMA.

HMA Compaction Acceptance

The column in Table 14 of Section 5-04.3(10), titled "Statistical Evaluation of HMA Compaction is Required for", is supplemented with the following:

(April 3, 2017)

- Any HMA for which the specified course thickness is greater than 0.10 feet and the HMA is placed in the shoulder.

Joints

Section 5-04.3(12) is supplemented with the following:

(January 5, 2004)

The HMA overlay shall be feathered to produce a smooth riding connection to the existing pavement.

HMA utilized in the construction of the feathered connections shall be modified by eliminating the coarse aggregate from the mix at the Contractor's plant or the commercial source or by raking the joint on the roadway, to the satisfaction of the Engineer.

1 **Division 8**
2 **Miscellaneous Construction**

3
4 **Erosion Control and Water Pollution Control**

5
6 **Construction Requirements**

7
8 **Erosion and Sediment Control (ESC) Lead**
9

10 Item number 3 and 4 in the second paragraph of Section 8-01.3(1)B are revised to
11 read:

12
13 (October 3, 2022)

14 3. Submit to the Engineer no later than the end of the next working day
15 following the inspection a TESC Inspection Report that includes:

- 16
17 a. When, where, and how BMPs were installed, maintained, modified, and
18 removed.
19
20 b. Observations of BMP effectiveness and proper placement.
21
22 c. Recommendations for improving future BMP performance with
23 upgraded or replacement BMPs when inspections reveal TESC BMP
24 deficiencies.
25
26 d. Identify for each discharge point location whether there is compliance
27 with state water quality standards in WAC 173-201A for turbidity and
28 pH.
29

30 ***Temporary Seeding and Mulching***

31
32 **Temporary Seeding**
33

34 Section 8-01.3(2)B is supplemented with the following:

35
36 (September 3, 2019)

37 Grass seed shall be a commercially prepared mix, made up of low growing
38 species which will grow without irrigation at the project location, and approved
39 by the Engineer. The application rate shall be two pounds per 1000 square feet.
40 Fertilizer shall be a commercially prepared mix of 10-20-20 and shall be applied
41 at the rate of 10 pounds per 1000 square feet.
42

43 **SECTION 8-04 CURBS, GUTTERS AND SPILLWAYS**

44 **8-04.1 Description**

45 **(January 23, 2013 COS GSP)**
46

47 **Supplement** this Section with the following:
48

1 *Work shall also comply with the COS Standard Plans and these Special Provisions.*

2 **8-04.2 Materials**
3 **(August 1, 2008 COS GSP)**

5 *The first paragraph is supplemented with the following:*

7	<i>Crushed surfacing top course for traffic island fill</i>	<i>Section 9-03.9(3)</i>
8	<i>Admixture for Concrete</i>	<i>Section 9-23.6</i>

9 8-04.3 Construction Requirements

10 **8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways**
11 **(*****)**

13 ***Replace the first paragraph of this Section in its entirety with the following:***

15 Cement concrete curb, curb and gutter, gutter, curb transition, curb and gutter transition, and
16 spillway shall be constructed with air entrained 6 sack commercial concrete conforming to the
17 requirements of Section 6-02 and in accordance with COS Standard Plans. Roundabout truck
18 apron cement concrete curb and gutter, roundabout truck apron cement concrete curb and
19 gutter modified, roundabout central island cement concrete curb, roundabout cement concrete
20 curb and gutter, and roundabout splitter island nosing curb shall be constructed with air
21 entrained concrete Class 4000 conforming to the requirements of Section 6-02.

23 *Replace the first sentence of the fourth paragraph with the following:*

25 Expansion joints in the curb or curb and gutter shall be spaced as shown in the COS Standard
26 Plans and placed at the beginning and ends of curb returns, drainage structures, bridges, and
27 cold joints with existing curbs and gutters.

29 **Add** the following after the last paragraph:

31 Concrete not meeting the entrained air requirements in Section 6-02.3 will be rejected. The
32 Contractor shall immediately make the changes necessary to comply with the entrained air
33 requirements. The Contractor shall remove and replace the defective work at no cost to the
34 Contracting Agency.

36 The finished curb, curb and gutter, curb transition, curb and gutter transition, and gutter shall
37 not deviate from the established line and elevation in excess of plus or minus 0.02-foot. The
38 surface of the top, face, and gutter pan of the finished curb, curb and gutter, and/or gutter shall
39 be planar and shall not vary greater than 1/8-inch when measured with a 10-foot straight edge.
40 The cross-section dimensions of finished curb, curb and gutter, curb transition, curb and gutter
41 transition, and gutter shall not vary greater than 1/4-inch from the cross-section dimensions
42 published in the COS Standard Plans.

44 *Finished concrete out of specification for line and elevation, surface planarity, or cross-*
45 *sectional dimension shall be removed and replaced at no cost to the Contracting Agency.*

47 *The Contractor shall shape cement concrete curb and gutter to conform to drainage structure*
48 *requirements.*

The Contractor shall reuse, salvage, or disposal of the granite curbs as shown in the Plans or as directed by the Engineer.

Curb removal shall meet the requirements of Section 2-02.3(3).

Gutters shall be removed in accordance with Section 2-02.

8-04.3(1)A Extruded Cement Concrete Curb

Delete the 2nd sentence of the 2nd paragraph regarding anchoring curbs to existing pavement.

Supplement with the following:

Concrete curb within landscape shall be flush with finish grade of landscape. Curb to be 6"x6", flat-topped curb with ½" bullnose along all exposed edges and use 3500 psi concrete. Curb shall have a light broom finish.

Concrete curb shall be used in all landscape areas to separate lawn and shrub beds, as well as between lawn and street trees using a 5' inside diameter.

8-04.3(1)W Pedestrian Curb

*(*****)*

Pedestrian curbs shown on the COS Standard Plans for curb ramps and in the Plans for bike ramps which are located behind, in front, or which enter the ramp area from the street; shall be payable under bid item, "Cement Concrete Curb", in accordance with the provisions of this section. The pedestrian curb shall be constructed per the requirements of the COS Standard Plans.

8-04.3(2) Extruded Asphalt Concrete Curbs and Gutters

(January 23, 2013 COS GSP)

Add the following after the last paragraph:

The newly laid curb shall be protected from traffic by barricade or other suitable means until the heat of the asphalt concrete mixture has been dissipated and the mixture has attained its proper degree of hardness.

SECTION 8-14 CEMENT CONCRETE SIDEWALKS

8-14.1 Description

*(*****)*

Replace this Section in its entirety with the following:

1 This work shall consist of constructing cement concrete sidewalks, cement concrete
2 sidewalks thickened edge, curb ramps, bike ramps, cement conc. platform, and
3 pedestrian access routes within driveways in accordance with the COS Standard Plans,
4 details shown in the Plans, the Standard Specifications, and these Special Provisions and
5 in conformity to the lines and grades shown in the Plans or established by the Engineer.
6

7 This work shall include of sawcutting trip hazards from existing sidewalk panels as shown
8 on the Plans.

9 **8-14.2 Materials**

10 **(*****)**

11
12 **Replace** the last paragraph with the following:

13
14 *EJIW Duralast DWS “white”, ADA Solutions Tactile “white”, and Armor-tile “pearl white”*
15 *have been pre-approved by the City of Spokane. The Contractor shall use these products,*
16 *or an equivalent product approved by Engineering Services prior to installation. The*
17 *detectable warning pattern surface shall have the truncated dome shape shown on the*
18 *plans and be a minimum of 2-foot-wide. The Contractor shall install the products*
19 *according to the manufacturer’s recommended installation procedure.*

20
21 *For platforms, use EJIW Duralast DWS “yellow”, ADA Solutions Tactile “yellow”, and*
22 *Armor-tile “federal yellow”.*

23
24 *The crushed base shall consist of crushed surfacing top course meeting the requirements*
25 *of Section 9-03.9(3).*
26

27 **8-14.3 Construction Requirements**

28 **(January 23, 2013 COS GSP)**

29
30 **Replace** “concrete Class 3000” with “6 sack commercial concrete” in the first paragraph.

31
32 **Add** the following:

33
34 *Concrete not meeting the entrained air requirements in Section 6-02.3 will be rejected.*
35 *The Contractor shall immediately make the changes necessary to comply with the*
36 *entrained air requirements. The Contractor shall remove and replace the defective work*
37 *at no cost to the Contracting Agency.*

38
39 *Sidewalks, curb ramps, and bike ramps shall be placed on 2-inches of compacted*
40 *crushed surfacing base course. The Contractor may substitute 2-inches of concrete in*
41 *lieu of the crushed surfacing base course, but no additional payment will be made for*
42 *such substitution. Exception: CSBC thickness shall be in accordance with Section 8-06*
43 *for sidewalks located within driveway entrances.*

44
45 *Survey monuments and reference points may be located on existing curbs and sidewalks*
46 *or within the limits of proposed new curbs, sidewalks, or curb ramps. The Contractor shall*
47 *coordinate with the Engineer prior to demolition of the existing survey monuments and*
48 *reference points to allow perpetuation of these survey points. In the event that*
49 *monuments and/or reference points are destroyed by the Contractor without employing*

1 *perpetuation measures, the Contractor shall reestablish said monuments and reference*
2 *points at no cost to the Contracting Agency.*

3
4 *Restoration of disturbed areas behind sidewalks shall meet the requirements of Section*
5 *8-02.*

6 **8-14.3(1) Excavation**
7 **(August 1, 2008 COS GSP)**

8
9 ***Add the following before the first paragraph:***

10
11 *Excavation shall be in accordance with Section 2-03.3(3).*

12 **8-14.3(3) Placing and Finishing Concrete**
13 **(January 23, 2013 COS GSP)**

14
15 ***Replace the second paragraph with the following:***

16
17 *After troweling and before jointing or edging, the surface of the walk shall be lightly brushed*
18 *perpendicular to the direction of pedestrian travel with a stiff bristled broom.*

19
20 ***Add the following to the third paragraph:***

21
22 *Joints and edges shall be tooled with a ½-inch radius edger. Contraction joints shall be*
23 *tooled 1-inch deep, for the full width of the sidewalk.*

24
25 *Curb ramps and bike ramps shall be separated from abutting cement concrete slabs or*
26 *structures by using 3/8-inch thick pre-molded joint filler.*

27
28 ***Supplement this Section with the following:***

29
30 *The finished sidewalks, curb ramps and bike ramps shall not deviate from the established*
31 *line and elevation in excess of plus or minus 0.02-foot. The surface of the flatwork shall*
32 *be planar and shall not vary greater than ¼-inch when measured with a 10-foot straight*
33 *edge placed longitudinally nor vary greater than 1/8-inch when measured with a 4-foot*
34 *straight edge placed transversely. The cross-section dimensions of finished sidewalk,*
35 *curb ramps, and bike ramps shall not vary greater than ¼-inch from the cross-section*
36 *dimensions published in the COS Standard Plans.*

37
38 *Where sidewalks are adjacent to existing improvements such as but not limited to*
39 *buildings, walls or fences the Contractor shall protect the improvement from damage*
40 *during their work. Prior to placing concrete adjacent to existing improvement the*
41 *Contractor shall protect the improvement from concrete spatter. In the case that concrete*
42 *splatter does reach the improvement it shall be removed as soon as possible without*
43 *damaging the sidewalk.*

44
45 *Finished concrete out of specification for line and elevation, surface planarity, or cross-*
46 *sectional dimension shall be removed and replaced at no cost to the Contracting Agency.*

47
48 ***Add the following new Section:***

1 **8-14.3(3)W Pedestrian Circulation Paths**

2 **(January 23, 2013 COS GSP)**

3
4 *Pedestrian Circulation Paths (PCPs) are exterior or interior ways of passage provided for*
5 *pedestrian travel. All PCPs are required to contain a continuous Pedestrian Access Route*
6 *that connects to all adjacent pedestrian facilities. Pedestrian Access Routes (PARs)*
7 *consist of one or more of the following pedestrian facilities: sidewalks, curb ramps*
8 *(excluding flares), driveways (excluding flares and drops), landings, crosswalks, access*
9 *ramps, pedestrian overpasses/underpasses, elevators, and platform lifts.*

10 **8-14.3(3)W1 General Accessibility Requirements for PARs**

11 **(January 23, 2013 COS GSP)**

12
13 *The minimum continuous and unobstructed clear width of a PAR shall be 4-feet excluding*
14 *the width of the curb. PARs that are less than 5-feet excluding the width of the curb shall*
15 *provide passing spaces at intervals no further apart than 200-feet. Passing spaces shall*
16 *be 5-feet wide by 5-feet long minimum.*

17
18 *The cross slope of a PAR shall be 2.0% maximum. The grade of a PAR contained within*
19 *the right of way shall not exceed the general grade established for the adjacent roadway.*

20 **8-14.3(3)W2 Cross Slope and Grade Requirements for Sidewalks**

21 **(January 23, 2013 COS GSP)**

22
23 *Sidewalks shall be sloped toward the roadway, contain a continuous Pedestrian Access*
24 *Route, and be constructed in accordance with the COS Standard Plans. The minimum*
25 *cross slope of PARs shall be 1.2% and the maximum cross slope of PARs shall be 2.0%*
26 *when measured with a 4-foot smart level perpendicular to the direction of pedestrian*
27 *travel. Exception: In the vicinity of curb ramps it may be impossible to comply with the*
28 *minimum cross slope requirements. At these locations the Contractor shall notify the*
29 *Engineer and request a deviation. If in agreement, the Engineer will provide a written*
30 *deviation for each location establishing a new minimum cross slope, for extreme cases*
31 *the deviation may allow reverse cross slopes. The 2% maximum cross slope shall not be*
32 *exceeded in either direction.*

33
34 *Construction tolerances for PARs are established by the minimum and maximum cross*
35 *slope requirements described above and as shown on the COS Standard Plans. Finished*
36 *sidewalks containing PARs with cross slopes outside the minimum and maximum*
37 *allowable cross slopes will be rejected. The Contractor is advised to target a cross slope*
38 *between the minimum and maximum cross slope during construction.*

39
40 *Sidewalks shall not exceed the general grade established by the roadway. Exception: In*
41 *the vicinity of curb ramps the grade of the sidewalk may be increased to match curb ramp*
42 *elevations and described in the next Section.*

43
44 *Finished sidewalks not meeting cross slope and grade requirements shall be removed*
45 *and replaced at no cost to the Contracting Agency. No allowances will be made for non-*
46 *compliance.*

8-14.3(3)W3 Slope Requirements for Curb Ramps

(*****)

Curb ramps are constructed using the following components: Ramps, landings, flares, and detectable warning pattern surfaces. The surfaces of these components shall be firm, stable, slip resistant, planar, and utility free. The minimum clear width of ramps and landings shall be 4-feet. Grade breaks shall be perpendicular to the direction of pedestrian travel.

Ramps

The maximum running slope for ramps is 8.3% when measured with a 4-foot smart level in the direction of pedestrian travel. Exception: On steep roadway grades, the maximum ramp running slope shall not require the ramp length to exceed 15-feet. The ramp shall be 15-feet in length at the slope required to meet the sidewalk elevation.

The maximum cross slope for ramps is 2.0% when measured with a 4-foot smart level perpendicular to the direction of pedestrian travel. Exception: When the bottom of the ramp intersects the back of a curb on an existing roadway that has a grade greater than 2.0%, the cross slope at the bottom of the ramp may exceed the 2.0% maximum. The ramp shall transition to the 2.0% maximum cross slope as near to the bottom of the ramp as possible and before the ramp reaches the landing.

Finished ramps exceeding the maximum running slope and cross slope requirements shall be removed and replaced at no cost to the Contracting Agency. No allowances will be made for exceeding these maximum slopes.

Landings

The maximum running slope for landings is 2.0% when measured with a 4-foot smart level in the direction of pedestrian travel. The maximum cross slope for landings is 2.0% when measured with a 4-foot smart level perpendicular to the direction of pedestrian travel. Exception: The cross slope for landings (running slope for the sidewalk) on midblock curb ramps may match the roadway grade.

Landings shall be constructed with a minimum length of 4-feet and a minimum width of 4-feet.

Finished landings exceeding the maximum running slope and cross slope requirements or landings that do not meet the minimum size requirements shall be removed and replaced at no cost to the Contracting Agency. No allowances will be made for exceeding these maximum slopes or for not meeting the minimum size requirements.

Flares

The maximum slope for flares is 10.0% when measured with a 4-foot smart level parallel to the back of curb. Exception: Slopes may exceed 10.0% when flares that are not within the PCPs.

Finished flares exceeding the maximum slope requirements shall be removed and replaced at no cost to the Contracting Agency. No allowances will be made for exceeding the maximum slope.

1 **8-14.3(3)W4 Slope Requirements for PARs at Driveways**
2 **(January 23, 2013 COS GSP)**
3

4 *All driveways installed within PCPs shall be constructed with a continuous and*
5 *unobstructed PAR. PARs at driveways are constructed using the following components:*
6

7 *Sidewalks*

8 *Sidewalks at driveway entrances shall be sloped toward the roadway and contain a*
9 *continuous Pedestrian Access Route with a minimum width of 4-feet excluding the width*
10 *of the curb. The minimum cross slope of the PAR shall be 1.2% and the maximum cross*
11 *slope of the PAR shall be 2.0% when measured with a 4-foot smart level perpendicular*
12 *to the direction of pedestrian travel. Sidewalk grades at driveway entrances shall not*
13 *exceed the general grade established by the roadway.*
14

15 *Construction tolerances for PARs are established by the minimum and maximum cross*
16 *slope requirements described above and as shown on the COS Standard Plans. Finished*
17 *driveways containing PARs with cross slopes outside the minimum and maximum*
18 *allowable cross slopes will be rejected. The Contractor is advised to target a cross slope*
19 *between the minimum and maximum cross slope during construction.*
20

21 *Finished PARs at driveway entrances not meeting width, cross slope, and grade*
22 *requirements shall be removed and replaced at no cost to the Contracting Agency. No*
23 *allowances will be made for non-compliance.*
24

25 *Ramps*

26 *The maximum running slope for ramps at driveway entrances is 8.3% when measured*
27 *with a 4-foot smart level in the direction of pedestrian travel. Exception: On steep*
28 *roadway grades, the maximum ramp running slope shall not require the ramp length to*
29 *exceed 15-feet. The ramp shall be 15-feet in length at the slope required to meet the*
30 *sidewalk elevation.*
31

32 *Maximum and minimum cross slope requirements and minimum width requirements for*
33 *ramps at driveway entrances are identical to the requirements described in this Section*
34 *for sidewalks.*
35

36 *Finished ramps at driveway entrances not meeting width, running slope, and cross slope*
37 *requirements shall be removed and replaced at no cost to the Contracting Agency. No*
38 *allowances will be made for non-compliance.*

39 **8-14.3(3)W5 Cement Conc. Platform**
40 **(*****)**
41

42 *Cement Conc. Platform shall be constructed as shown in the plans. The concrete*
43 *requirements for this item shall be the same of that of Cement Conc. Sidewalk, with a*
44 *CSBC subgrade and not CSTC. This item shall be inclusive of all work required for*
45 *construction, including but not limited to rebar, forming work and Styrofoam board.*
46

47 **8-14.3(4) Curing**
48 **(January 23, 2013 COS GSP)**

Add the following:

If methods of construction cannot exclude pedestrian or vehicular traffic, the Contractor shall use a high-early strength concrete with the prior approval of the Engineer. In this case, the sidewalk or driveway shall remain closed until the concrete reaches a minimum of 2500 PSI compressive strength.

The Contractor shall have readily available sufficient protective covering, such as waterproof paper or plastic membrane, to cover the pour of an entire day in event of rain or other inclement weather.

8-14.3(100) Repair of Vertically Displaced Sidewalk Panels
(April 1, 2008 COS GSP)

Sidewalk panels shall be identified via a 'walk-through' inspection of the work areas by the Engineer and the Contractor. It is up to the Engineer to decide if sawcutting will be utilized within the neighborhood. If panels are not repaired by sawcutting, then raised panels may be identified by the Engineer for removal and replacement.

Existing vertically displaced sidewalk panels identified in the Plans or by the Engineer shall be repaired by sawcutting/milling according to these Specifications. The maximum allowable vertically displacement shall be no more than 1 ½-inches in height. Panels that exceed this limit shall be removed and reconstructed as new cement concrete sidewalk panels. In no case, shall the panel have more than 50 percent of the panel's depth removed by sawcutting. If the sidewalk panel is determined by the Engineer to be compromised after the sawcutting repair, then the panel will be removed and replaced as a new sidewalk panel.

The trip hazards marked for sawcutting shall be sawcut in accordance with the current requirements of the Americans with Disability Act. When vertical displacements are greater than ¼-inch, but less than ½-inch; the displacement shall be beveled to a 2:1 maximum slope. When vertical displacements are greater than ½-inch; the displacement shall be tapered to a 12:1 maximum slope. Completed work shall have a smooth and uniform appearance and texture.

The sawcutting shall be taken to the zero point of differential settlement and to both edges of the sidewalk, as required, to eliminate trip hazards for the full-width of the sidewalk.

Equipment used shall consist of a dust collection device utilizing a shield/shroud attached to the cutting device. Protective covers such as plastic tarps, etc. may be utilized in order to protect the area but care shall be exercised so as not to damage property of the homeowners. Repair, reimbursement, or replacement of damaged property caused by the sawcutting operations will be the sole responsibility of the Contractor.

Site Restoration: Immediately following the repair, the Contractor shall return the area adjacent to the work to its previous condition. Dust and debris shall be cleaned, removed, and disposed of in a legal manner from the work site and surrounding areas; including but not limited to, hand-rails, sidewalks, driveway approaches and their transitions, landscaping, vehicles, etc. Should the Contractor fail to complete the site restoration to

1 *the Engineer's satisfaction within the allotted time specified by the Engineer, the City shall*
2 *contract with other parties to complete the work. The costs, including administrative*
3 *costs, shall be deducted from the contract payment amount due the original Contractor.*

4
5 *The Contractor shall be required to close the sidewalk to pedestrian traffic during the*
6 *repair in order to insure the safety of pedestrians and animals.*
7

8
9
10
11 **(January 7, 2019)**

12 ***Layout and Conformance to Grades***

13 Using the information provided in the Contract documents, the Contractor shall lay out,
14 grade, and form each new curb ramp, sidewalk, and curb and gutter.
15

16 **Division 9**
17 **Materials**
18

19 **(January 9, 2023)**

20 **Standard Plans**

21 The State of Washington Standard Plans for Road, Bridge and Municipal Construction M21-
22 01, effective September 30, 2022, is made a part of this contract.
23

24 The Standard Plans are revised as follows:
25

26 A-10.30

27 RISER RING detail (Including SECTION view and RISER RING DIMENSIONS table):
28 The RISER RING detail is deleted from the plan.
29

30 INSTALLATION detail, SECTION A: The "1/4" callout is revised to read "+/- 1/4" (SEE
31 CONTRACT ~ Note: The + 1/4" installation is shown in the Section A view)"
32

33 B-90.40

34 Valve Detail – DELETED
35

36 C-8

37 DELETED
38

39 C-8A

40 DELETED
41

42 C-20.42

43 Plan View (Case 22A-31), callout, was; "BEAM GUARDRAIL ANCHOR TYPE 10 PAY
44 LIMIT" is revised to read; "BEAM GUARDRAIL ANCHOR TYPE 11 PAY LIMIT"
45

46 C-23.60

47 DELETED
48

49 C-23.70

1 Sheet 1, Detail A, callout, was – “EIGHT 5/8” x 1/2” (IN) BOLTS W/ HEX NUTS AND
2 WASHERS (SEE NOTE 5)”is revised to read: “EIGHT 5/8” x 1-1/2” (IN) BOLTS W/ HEX
3 NUTS AND WASHERS (SEE NOTE 5)”.
4 Sheet 2, ANCHOR RAIL ELEMENT DETAIL and associated Enlarged Detail, 3/4”
5 Diameter hole pattern (8 holes), callout, “3/4” DIAMETER HOLE (TYP.)” is revised to read:
6 “29/32” x 1 1/8” (IN) SLOT (TYP.)”
7
8 D-2.04
9 DELETED
10
11 D-2.06
12 DELETED
13
14 D-2.08
15 DELETED
16
17 D-2.32
18 DELETED
19
20 D-2.34
21 DELETED
22
23 D-2.60
24 DELETED
25
26 D-2.62
27 DELETED
28
29 D-2.64
30 DELETED
31
32 D-2.66
33 DELETED
34
35 D-2.68
36 DELETED
37
38 D-2.80
39 DELETED
40
41 D-2.88
42 DELETED
43
44 D-3.15
45 DELETED
46
47 D-3.16
48 DELETED
49
50 D-3.17
51 DELETED

1
2 D-3.10
3 Sheet 1, Typical Section, callout – “FOR WALLS WITH SINGLE SLOPE TRAFFIC
4 BARRIER. USE THE DETAILS ABOVE THE MATCH LINE ON STANDARD PLAN D-
5 3.15” is revised to read; “FOR WALLS WITH SINGLE SLOPE TRAFFIC BARRIER, SEE
6 CONTRACT PLANS”
7 Sheet 1, Typical Section, callout – “FOR WALLS WITH F-SHAPE TRAFFIC BARRIER.
8 USE THE DETAILS ABOVE THE MATCH LINE ON STANDARD PLAN D-3.16” is revised
9 to read; “FOR WALLS WITH F-SHAPE TRAFFIC BARRIER, SEE CONTRACT PLANS”
10
11 D-3.11
12 Sheet 1, Typical Section, callout – ““B” BRIDGE APPROACH SLAB (SEE BRIDGE
13 PLANS) OR PERMANENT GEOSYNTHETIC WALL BARRIER ~ SEE STANDARD
14 PLANS D-3.15 OR D-3.16” is revised to read; “B” BRIDGE APPROACH SLAB OR
15 MOMENT SLAB (SEE CONTRACT PLANS)
16 Sheet 1, Typical Section, callout – “TYPICAL BARRIER ON BRIDGE APPROACH SLAB
17 (SEE BRIDGE PLANS) OR PERMANENT GEOSYNTHETIC WALL BARRIER ~ SEE
18 STANDARD PLANS D-3.15 OR D-3.16” is revised to read; “TYPICAL BARRIER ON
19 BRIDGE APPROACH SLAB OR MOMENT SLAB (SEE CONTRACT PLANS)
20
21 D-10.10
22 Wall Type 1 may be used if no traffic barrier is attached on top of the wall. Walls with traffic
23 barriers attached on top of the wall are considered non-standard and shall be designed
24 in accordance with the current WSDOT Bridge Design Manual (BDM) and the revisions
25 stated in the 11/3/15 Bridge Design memorandum.
26
27 D-10.15
28 Wall Type 2 may be used if no traffic barrier is attached on top of the wall. Walls with traffic
29 barriers attached on top of the wall are considered non-standard and shall be designed
30 in accordance with the current WSDOT BDM and the revisions stated in the 11/3/15
31 Bridge Design memorandum.
32
33 D-10.30
34 Wall Type 5 may be used in all cases.
35
36 D-10.35
37 Wall Type 6 may be used in all cases.
38
39 D-10.40
40 Wall Type 7 may be used if no traffic barrier is attached on top of the wall. Walls with traffic
41 barriers attached on top of the wall are considered non-standard and shall be designed
42 in accordance with the current WSDOT BDM and the revisions stated in the 11/3/15
43 Bridge Design memorandum.
44
45 D-10.45
46 Wall Type 8 may be used if no traffic barrier is attached on top of the wall. Walls with traffic
47 barriers attached on top of the wall are considered non-standard and shall be designed
48 in accordance with the current WSDOT BDM and the revisions stated in the revisions
49 stated in the 11/3/15 Bridge Design memorandum.
50
51 D-15.10

STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls" are withdrawn. Special designs in accordance with the current WSDOT BDM are required in place of these STD Plans.

D-15.20

STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls" are withdrawn. Special designs in accordance with the current WSDOT BDM are required in place of these STD Plans.

D-15.30

STD Plans D-15 series "Traffic Barrier Details for Reinforced Concrete Retaining Walls" are withdrawn. Special designs in accordance with the current WSDOT BDM are required in place of these STD Plans.

F-10.18

Note 2, "Region Traffic engineer approval is needed to install a truck apron lower than 3'." - DELETED

J-10.10

Sheet 4 of 6, "Foundation Size Reference Table", PAD WIDTH column, Type 33xD=6' – 3" is revised to read: 7' – 3". Type 342LX / NEMA P44=5' – 10" is revised to read: 6' – 10"
Sheet 5 of 6, Plan View, "FOR EXAMPLE PAD SHOWN HERE:, "first bullet" item, "SPACE BETWEEN TYPE B MOD. CABINET AND 33x CABINET IS 6" (IN)" IS REVISED TO READ: "SPACE BETWEEN TYPE B MOD. CABINET (BACK OF ALL CHANNEL STEEL) AND 33x CABINET IS 6" (IN) (CHANNEL STEEL ADDS ABOUT 5" (IN))"

J-10.16

Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14

J-10.17

Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14

J-10.18

Key Note 1, Standard Plan J-10.30 revised to Standard Plan J-10.14

J-20.10

Elevation View, horizontal dimension to edge of sidewalk 10" (IN) OR LESS DESIRABLE ~ 18" (IN) MAXIMUM is revised to read: "10" (IN) MAXIMUM"

J-20.26

Add Note 1, "1. One accessible pedestrian pushbutton station per pedestrian pushbutton post."

J-20.16

View A, callout, was – LOCK NIPPLE, is revised to read; CHASE NIPPLE

J-21.10

Sheet 1, Elevation View, Round Concrete Foundation Detail, callout – "ANCHOR BOLTS ~ 3/4" (IN) x 30" (IN) FULL THREAD ~ THREE REQ'D. PER ASSEMBLY" IS REVISED TO READ: "ANCHOR BOLTS ~ 3/4" (IN) x 30" (IN) FULL THREAD ~ FOUR REQ'D. PER ASSEMBLY"

1 Sheet 1 of 2, Elevation view (Round), add dimension depicting the distance from the top
2 of the foundation to find 2 #4 reinforcing bar shown, to read; 3" CLR.. Delete "(TYP.)" from
3 the 2 ½" CLR. dimension, depicting the distance from the bottom of the foundation to find
4 2 # 4 reinf. Bar.
5 Sheet 1 of 2, Elevation view (Square), add dimension depicting the distance from the top
6 of the foundation to find 1 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from
7 the 2 ½" CLR. dimension, depicting the distance from the bottom of the foundation to find
8 1 # 4 reinf. Bar.
9 Sheet 2 of 2, Elevation view (Round), add dimension depicting the distance from the top
10 of the foundation to find 2 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from
11 the 2 ½" CLR. dimension, depicting the distance from the bottom of the foundation to find
12 2 # 4 reinf. Bar.
13 Sheet 2 of 2, Elevation view (Square), add dimension depicting the distance from the top
14 of the foundation to find 1 #4 reinforcing bar shown, to read; 3" CLR. Delete "(TYP.)" from
15 the 2 ½" CLR. dimension, depicting the distance from the bottom of the foundation to find
16 1 # 4 reinf. Bar.
17 Detail F, callout, "Heavy Hex Clamping Bolt (TYP.) ~ 3/4" (IN) Diam. Torque Clamping
18 Bolts (see Note 3)" is revised to read; "Heavy Hex Clamping Bolt (TYP.) ~ 3/4" (IN) Diam.
19 Torque Clamping Bolts (see Note 1)"
20 Detail F, callout, "3/4" (IN) x 2' – 6" Anchor Bolt (TYP.) ~ Four Required (See Note 4)" is
21 revised to read; "3/4" (IN) x 2' – 6" Anchor Bolt (TYP.) ~ Three Required (See Note 2)"
22
23 J-21.15
24 Partial View, callout, was – LOCK NIPPLE ~ 1 ½" DIAM., is revised to read; CHASE
25 NIPPLE ~ 1 ½" (IN) DIAM.
26
27 J-21.16
28 Detail A, callout, was – LOCKNIPPLE, is revised to read; CHASE NIPPLE
29
30 J-22.15
31 Ramp Meter Signal Standard, elevation, dimension 4' - 6" is revised to read; 6'-0"
32 (2x) Detail A, callout, was – LOCK NIPPLE ~ 1 ½" DIAM. is revised to read; CHASE
33 NIPPLE ~ 1 ½" (IN) DIAM.
34
35 J-40.10
36 Sheet 2 of 2, Detail F, callout, "12 – 13 x 1 ½" S.S. PENTA HEAD BOLT AND 12" S. S.
37 FLAT WASHER" is revised to read; "12 – 13 x 1 ½" S.S. PENTA HEAD BOLT AND 1/2"
38 (IN) S. S. FLAT WASHER"
39
40 J-40.36
41 Note 1, second sentence; "Finish shall be # 2B for backbox and # 4 for the cover." Is
42 revised to read; "Finish shall be # 2B for barrier box and HRAP (Hot Rolled Annealed and
43 Pickled) for the cover."
44
45 J-40.37
46 Note 1, second sentence; "Finish shall be # 2B for backbox and # 4 for the cover." Is
47 revised to read; "Finish shall be # 2B for barrier box and HRAP (Hot Rolled Annealed and
48 Pickled) for the cover."
49
50 J-75.20

1 Key Notes, note 16, second bullet point, was: "1/2" (IN) x 0.45" (IN) Stainless Steel
2 Bands", add the following to the end of the note: "Alternate: Stainless steel cable with
3 stainless steel ends, nuts, bolts, and washers may be used in place of stainless steel
4 bands and associated hardware."
5

6 J-75.41
7 DELETED
8

9 J-75.55
10 Notes, Note A1, Revise reference, was – G-90.29, should be – G-90.20.
11

12 K-80.20
13 DELETED
14

15 L-5.10
16 Sheet 2, Typical Elevation, callout - "2' – 0" MIN. LAP SPLICE BETWEEN (mark) A #3
17 BAR AND WALL REINFORCEMENT ~ TYPICAL" is revised to read: "2' – 0" MIN. LAP
18 SPLICE BETWEEN (MARK) A #4 BAR AND WALL REINFORCEMENT ~ TYPICAL"
19 Section C, callout; "(mark) A #3" is revised to read: "(mark) A #4", callout - "(mark) B #3"
20 is revised to read: "(mark) B #4", callout - "(mark) C #3 TIE" is revised to read: "(mark) C
21 #4 TIE"
22 Reinforcing Steel Bending Diagram, (mark) B detail, callout – "128 deg." is revised to
23 read: "123 deg.", callout – "51 deg." is revised to read: "57 deg."
24

25 The following are the Standard Plan numbers applicable at the time this project was
26 advertised. The date shown with each plan number is the publication approval date
27 shown in the lower right-hand corner of that plan. Standard Plans showing different dates
28 shall not be used in this contract.
29

30
A-10.10-00.....8/7/07 A-30.35-00.....10/12/07 A-50.10-01.....8/17/21
A-10.20-00.....10/5/07 A-40.00-01.....7/6/22 A-50.40-01.....8/17/21
A-10.30-00.....10/5/07 A-40.10-04.....7/31/19 A-60.10-03.....12/23/14
A-20.10-00.....8/31/07 A-40.15-00.....8/11/09 A-60.20-03.....12/23/14
A-30.10-00.....11/8/07 A-40.20-04.....1/18/17 A-60.30-01.....6/28/18
A-30.30-01.....6/16/11 A-40.50-02.....12/23/14 A-60.40-00.....8/31/07

B-5.20-03.....9/9/20 B-30.50-03.....2/27/18 B-75.20-03.....8/17/21
B-5.40-02.....1/26/17 B-30.60-00.....9/9/20 B-75.50-02.....3/15/22
B-5.60-02.....1/26/17 B-30.70-04.....2/27/18 B-75.60-00.....6/8/06
B-10.20-02.....3/2/18 B-30.80-01.....2/27/18 B-80.20-00.....6/8/06
B-10.40-02.....8/17/21 B-30.90-02.....1/26/17 B-80.40-00.....6/1/06
B-10.70-02.....8/17/21 B-35.20-00.....6/8/06 B-85.10-01.....6/10/08
B-15.20-01.....2/7/12 B-35.40-00.....6/8/06 B-85.20-00.....6/1/06
B-15.40-01.....2/7/12 B-40.20-00.....6/1/06 B-85.30-00.....6/1/06
B-15.60-02.....1/26/17 B-40.40-02.....1/26/17 B-85.40-00.....6/8/06
B-20.20-02.....3/16/12 B-45.20-01.....7/11/17 B-85.50-01.....6/10/08
B-20.40-04.....2/27/18 B-45.40-01.....7/21/17 B-90.10-00.....6/8/06
B-20.60-03.....3/15/12 B-50.20-00.....6/1/06 B-90.20-00.....6/8/06
B-25.20-02.....2/27/18 B-55.20-03.....8/17/21 B-90.30-00.....6/8/06
B-25.60-02.....2/27/18 B-60.20-02.....9/9/20 B-90.40-01.....1/26/17
B-30.05-00.....9/9/20 B-60.40-01.....2/27/18 B-90.50-00.....6/8/06

	B-30.10-03.....2/27/18	B-65.20-01.....4/26/12	B-95.20-02.....8/17/21
	B-30.15-00.....2/27/18	B-65.40-00.....6/1/06	B-95.40-01.....6/28/18
	B-30.20-04.....2/27/18	B-70.20-01.....3/15/22	
	B-30.30-03.....2/27/18	B-70.60-01.....1/26/17	
	B-30.40-03.....2/27/18		
1	C-1.....9/8/22	C-22.40-09.....9/8/22	C-60.70-01.....9/8/22
	C-1b.....9/8/22	C-22.45-06.....9/8/22	C-60.80-01.....9/8/22
	C-1d.....10/31/03	C-23.70-00.....8/22/22	C-70.15-00.....8/17/21
	C-2c.....8/12/19	C-24.10-03.....7/24/22	C-70.10-03.....8/20/21
	C-4f.....8/12/19	C-24.15-00.....3/15/22	C-75.10-02.....9/16/20
	C-6a.....9/8/22	C-25.20-07.....8/20/21	C-75.20-03.....8/20/21
	C-7.....9/8/22	C-25.22-06.....8/20/21	C-75.30-03.....8/20/21
	C-7a.....9/8/22	C-25.26-05.....8/20/21	C-80.10-02.....9/16/20
	C-20.10-08.....9/8/22	C-25.30-01.....8/20/21	C-80.20-01.....6/11/14
	C-20.14-05.....9/8/22	C-25.80-05.....8/12/19	C-80.30-02.....8/20/21
	C-20.15-02.....6/11/14	C-60.10-02.....9/8/22	C-80.40-01.....6/11/14
	C-20.18-04.....9/8/22	C-60.15-00.....8/17/21	C-85.10-00.....4/8/12
	C-20.40-09.....9/8/22	C-60.20-01.....9/8/22	C-85.11-01.....9/16/20
	C-20.41-04.....8/22/22	C-60.30-01.....8/17/21	C-85.15-02.....8/27/21
	C-20.42-05.....7/14/15	C-60.40-00.....8/17/21	C-85-18-03.....9/8/22
	C-20.43-00.....8/22/22	C-60.45-00.....8/17/21	
	C-20.45-03.....9/8/22	C-60.50-00.....8/17/21	
	C-22.16-07.....9/16/20	C-60.60-00.....8/17/21	
2	D-2.36-03.....6/11/14	D-4.....12/11/98	D-10.35-00.....7/8/08
	D-2.46-02.....8/13/21	D-6.....6/19/98	D-10.40-01.....12/2/08
	D-2.84-00.....11/10/05	D-10.10-01.....12/2/08	D-10.45-01.....12/2/08
	D-2.92-01.....4/26/22	D-10.15-01.....12/2/08	
	D-3.09-00.....5/17/12	D-10.20-01.....8/7/19	
	D-3.10-01.....5/29/13	D-10.25-01.....8/7/19	
	D-3.11-03.....6/11/14	D-10.30-00.....7/8/08	
3	E-1.....2/21/07	E-4.....8/27/03	
	E-2.....5/29/98	E-4a.....8/27/03	
4	F-10.12-04.....9/24/20	F-10.62-02.....4/22/14	F-40.15-04.....9/25/20
	F-10.16-00.....12/20/06	F-10.64-03.....4/22/14	F-40.16-03.....6/29/16
	F-10.18-03.....3/28/22	F-30.10-04.....9/25/20	F-45.10-03.....8/13/21
	F-10.40-04.....9/24/20	F-40.12-03.....6/29/16	F-80.10-04.....7/15/16
	F-10.42-00.....1/23/07	F-40.14-03.....6/29/16	
5	G-10.10-00.....9/20/07	G-26.10-00.....7/31/19	
	G-20.10-03.....8/20/21	G-30.10-04.....6/23/15	
	G-22.10-04.....6/28/18	G-50.10-03.....6/28/18	
	G-24.10-00.....11/8/07	G-90.10-03.....7/11/17	
	G-24.20-01.....2/7/12	G-90.20-05.....7/11/17	
	G-24.30-02.....6/28/18	G-90.30-04.....7/11/17	
	G-24.40-07.....6/28/18	G-95.10-02.....6/28/18	
	G-24.50-05.....8/7/19	G-95.20-03.....6/28/18	
	G-24.60-05.....6/28/18	G-95.30-03.....6/28/18	

1	G-25.10-05.....9/16/20		
	H-10.10-00.....7/3/08	H-32.10-00.....9/20/07	H-70.10-02.....8/17/21
	H-10.15-00.....7/3/08	H-60.10-01.....7/3/08	H-70.20-02.....8/17/21
	H-30.10-00.....10/12/07	H-60.20-01.....7/3/08	
2			
	I-10.10-01.....8/11/09	I-30.20-00.....9/20/07	I-40.20-00.....9/20/07
	I-30.10-02.....3/22/13	I-30.30-02.....6/12/19	I-50.20-02.....7/6/22
	I-30.15-02.....3/22/13	I-30.40-02.....6/12/19	I-60.10-01.....6/10/13
	I-30.16-01.....7/11/19	I-30.60-02.....6/12/19	I-60.20-01.....6/10/13
	I-30.17-01.....6/12/19	I-40.10-00.....9/20/07	I-80.10-02.....7/15/16
3			
	J-05.50-00.....8/30/22	J-28.10-02.....8/7/19	J-50.25-00.....6/3/11
	J-10.....7/18/97	J-28.22-00.....8/07/07	J-50.30-00.....6/3/11
	J-10.10-04.....9/16/20	J-28.24-02.....9/16/20	J-60.05-01.....7/21/16
	J-10.12-00.....9/16/20	J-28.26-01.....12/02/08	J-60.11-00.....5/20/13
	J-10.14-00.....9/16/20	J-28.30-03.....6/11/14	J-60.12-00.....5/20/13
	J-10.15-01.....6/11/14	J-28.40-02.....6/11/14	J-60.13-00.....6/16/10
	J-10.16-02.....8/18/21	J-28.42-01.....6/11/14	J-60.14-01.....7/31/19
	J-10.17-02.....8/18/21	J-28.43-01.....6/28/18	J-75.10-02.....7/10/15
	J-10.18-02.....8/18/21	J-28.45-03.....7/21/16	J-75.20-01.....7/10/15
	J-10.20-04.....8/18/21	J-28.50-03.....7/21/16	J-75.30-02.....7/10/15
	J-10.21-02.....8/18/21	J-28.60-03.....8/27/21	J-75.50-00.....8/30/22
	J-10.22-02.....8/18/21	J-28.70-04.....8/30/22	J-75.55-00.....8/30/22
	J-10.25-00.....7/11/17	J-29.10-02.....8/26/22	J-80.05-00.....8/30/22
	J-10.26-00.....8/30/22	J-29.15-01.....7/21/16	J-80.10-01.....8/18/21
	J-12.15-00.....6/28/18	J-29.16-02.....7/21/16	J-80.12-00.....8/18/21
	J-12.16-00.....6/28/18	J-30.10-01.....8/26/22	J-80.15-00.....6/28/18
	J-15.10-01.....6/11/14	J-40.01-00.....8/30/22	J-81.10-02.....8/18/21
	J-15.15-02.....7/10/15	J-40.05-00.....7/21/16	J-81.12-00.....9/3/21
	J-20.01-00.....8/30/22	J-40.10-04.....4/28/16	J-84.05-00.....8/30/22
	J-20.10-04.....7/31/19	J-40.20-03.....4/28/16	J-86.10-00.....6/28/18
	J-20.11-03.....7/31/19	J-40.30-04.....4/28/16	J-90.10-03.....6/28/18
	J-20.15-03.....6/30/14	J-40.35-01.....5/29/13	J-90.20-03.....6/28/18
	J-20.16-02.....6/30/14	J-40.36-02.....7/21/17	J-90.21-02.....6/28/18
	J-20.20-02.....5/20/13	J-40.37-02.....7/21/17	J-90.50-00.....6/28/18
	J-20.26-01.....7/12/12	J-40.38-01.....5/20/13	
	J-21.10-04.....6/30/14	J-40.39-00.....5/20/13	
	J-21.15-01.....6/10/13	J-40.40-02.....7/31/19	
	J-21.16-01.....6/10/13	J-45.36-00.....7/21/17	
	J-21.17-01.....6/10/13	J-50.05-00.....7/21/17	
	J-21.20-01.....6/10/13	J-50.10-01.....7/31/19	
	J-22.15-02.....7/10/15	J-50.11-02.....7/31/19	
	J-22.16-03.....7/10/15	J-50.12-02.....8/7/19	
	J-26.10-03.....7/21/16	J-50.13-01.....8/30/22	
	J-26.15-01.....5/17/12	J-50.15-01.....7/21/17	
	J-26.20-01.....6/28/18	J-50.16-01.....3/22/13	
	J-27.10-01.....7/21/16	J-50.18-00.....8/7/19	
	J-27.15-00.....3/15/12	J-50.19-00.....8/7/19	
	J-28.01-00.....8/30/22	J-50.20-00.....6/3/11	
4			

1	K-70.20-01.....6/1/16	K-80.32-00.....8/17/21	K-80.35-01.....9/16/20
	K-80.10-02.....9/25/20	K-80.34-00.....8/17/21	K-80.37-01.....9/16/20
	L-5.10-00.....9/19/22	L-20.10-03.....7/14/15	L-40.20-02.....6/21/12
2	L-5.15-00.....9/19/22	L-30.10-02.....6/11/14	L-70.10-01.....5/21/08
	L-10.10-02.....6/21/12	L-40.15-01.....6/16/11	L-70.20-01.....5/21/08
	M-1.20-04.....9/25/20	M-11.10-04.....8/2/22	M-40.20-00.....10/12/07
	M-1.40-03.....9/25/20	M-12.10-03.....8/2/22	M-40.30-01.....7/11/17
	M-1.60-03.....9/25/20	M-15.10-01.....2/6/07	M-40.40-00.....9/20/07
	M-1.80-03.....6/3/11	M-17.10-02.....7/3/08	M-40.50-00.....9/20/07
	M-2.20-03.....7/10/15	M-20.10-04.....8/2/22	M-40.60-00.....9/20/07
	M-2.21-00.....7/10/15	M-20.20-02.....4/20/15	M-60.10-01.....6/3/11
	M-3.10-04.....9/25/20	M-20.30-04.....2/29/16	M-60.20-03.....8/17/21
	M-3.20-04.....8/2/22	M-20.40-03.....6/24/14	M-65.10-03.....8/17/21
	M-3.30-04.....9/25/20	M-20.50-02.....6/3/11	M-80.10-01.....6/3/11
	M-3.40-04.....9/25/20	M-24.20-02.....4/20/15	M-80.20-00.....6/10/08
	M-3.50-03.....9/25/20	M-24.40-02.....4/20/15	M-80.30-00.....6/10/08
	M-5.10-03.....9/25/20	M-24.60-04.....6/24/14	
	M-7.50-01.....1/30/07	M-24.65-00.....7/11/17	
3	M-9.50-02.....6/24/14	M-24.66-00.....7/11/17	
	M-9.60-00.....2/10/09	M-40.10-03.....6/24/14	
4			
5			

SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

1. Project information.
2. Work covered by Contract Documents.
3. Phased construction.
4. Work performed by Owner.
5. Multiple Work Packages.
6. Work under Owner's separate contracts.
7. Future work not part of this Project.
8. Owner-furnished/Contractor-installed (OFCI) products.
9. Owner-furnished/Owner-installed (OFOI) products.
10. Contractor-furnished/Contractor-installed (CFCI) products.
11. Contractor's use of site and premises.
12. Coordination with occupants.
13. Work restrictions.
14. Specification and Drawing conventions.

1.3 DEFINITIONS

- A. Work Package: A group of specifications, drawings, and schedules prepared by the design team to describe a portion of the Project Work for pricing, permitting, and construction.

1.4 PROJECT INFORMATION

- A. Project Identification: Sprague Line HPT – Phase 2.
 1. Project Location: Spokane County, WA
- B. Owner: Spokane Transit Authority, W. 1230 Boone Ave. Spokane, WA 99201
 1. Owner's Representative: Ryan Brodwater, Capital Projects Manager (rbrodwater@spokanetransit.com)
- C. Architect and Engineer: Arcadis IBI Group; Civil Engineer: Jacobs

1. Representative: Lee Ann Mangin (lamangin@arcadis.com)
Craig Rothenburger (craig.rothenburger@arcadis.com)

D. Project Coordinator for Multiple Contracts: Owner shall serve as Project coordinator.

1.5 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of Project is defined by the Contract Documents and includes, but is not limited to, the following:
1. Demolition of concrete, asphalt and indicated site components,
 2. Erection of steel structures,
 3. Loading, unloading and transportation of HPT amenity components and technology components from Owner storage facility to installation sites,
 4. Installation of HPT amenity components,
 5. Furnishing and installing of luminaires for markers, and light poles,
 6. Furnishing and installing of any necessary cabling/wiring, mounting, or accessories to install a complete-in-place system,
 7. Installation and basic testing of technology components, including wiring from power and communications cabinets to each component,
 8. Electrical coordination with Avista and Modern Electric for energizing the power meters for each installation location,
 9. Site civil work, including but not limited to cap, concrete work, sidewalk restoration, and
 10. Other Work indicated in the Contract Documents.
 11. Removal of indicated existing amenities at the Valley Transit Center and transportation to Owner storage facility
 12. Multiple scenarios of temporary measures to ensure public and contractor safety

1.6 PHASED CONSTRUCTION

- A. Refer to Section 003100 Project Description & Scope of Work.
- B. Before commencing Work for each Package, submit an updated copy of Contractor's construction schedule, showing the sequence, commencement and completion dates for all phases of the Work.

1.7 WORK PERFORMED BY OWNER

- A. Cooperate fully with Owner, so work may be carried out smoothly, without interfering with or delaying Work under this Contract or work by Owner. Coordinate the Work of this Contract with work performed by Owner.
 - 1. All amenities and technology components shall be delivered prior to the commencement of work under this contract. The Contractor is expected to coordinate with STA and its fabricator(s) on delivery schedules and pick-up of components.
 - a. Fabrication: Future Systems, Inc. for fabrication of the marker and pedestrian light pole components to be assembled and installed as part of this contract.
 - b. Bench and Leaning Rail Fabrication: Custom Fabrication, Inc. for fabrication of the benches and leaning rails to be installed as part of this contract.
 - c. Waste and Recycling Bin Fabrication: Correctional Industries for fabrication of the waste and recycling bins to be installed as part of this contract.
 - d. Free-Standing Kiosk: Tolar, Inc. for fabrication of the free-standing information kiosks to be installed as part of this contract.
 - 2. CCTV Camera Installation: Aronson Security Group for procurement and installation of CCTV cameras at the Valley Transit Center indicated in the Drawings.
 - a. Closed-circuit television (CCTV) camera installation shall occur concurrently with this contract.
- B. Work with Separate Contractors: Cooperate fully with Owner's separate contractors, so work on those contracts may be carried out smoothly, without interfering with or delaying Work under this Contract or other contracts. Coordinate the Work of this Contract with work performed under Owner's separate contracts.

1.8 OWNER-FURNISHED/CONTRACTOR-INSTALLED (OFCI) PRODUCTS

- A. Owner's Responsibilities: Owner will furnish products indicated and perform the following, as applicable:
 - 1. Provide to Contractor Owner-reviewed Product Data, Shop Drawings, and Samples.
 - 2. Upon delivery, inspect, with Contractor present, delivered items.
 - a. If Owner-furnished products are damaged, defective, or missing, arrange for replacement.
 - 3. Obtain manufacturer's inspections, service, and warranties.
 - 4. Inform Contractor of earliest available delivery date for Owner-furnished products.
- B. Contractor's Responsibilities: The Work includes the following, as applicable:
 - 1. Designate pickup dates of Owner-furnished products in Contractor's construction schedule, utilizing Owner-furnished earliest available delivery dates.

2. In coordination with Owner, develop and submit an Owner Furnished Product Plan that includes procedures and checklists for scheduling pickups, inspections, transportation, storage, etc.
3. Review Owner-reviewed Product Data, Shop Drawings, and Samples, noting discrepancies and other issues in providing for Owner-furnished products in the Work.
4. Pickup, unload, handle, store, protect, and install Owner-furnished products.
 - a. Products will be picked up from STA's storage facility at 608 E Holland, Spokane, WA, 99218.
5. Protect Owner-furnished products from damage during storage, handling, and installation and prior to Substantial Completion.
6. Repair or replace Owner-furnished products damaged following pick up.

C. Owner-Furnished/Contractor-Installed (OFCI) Products:

1. Cellular equipment: Telecommunications equipment to be installed in the communications cabinets at the locations indicated in the Drawings.
2. HPT Markers, Light Poles: Bus stop amenities to be installed at the locations indicated in the Drawings.
3. Seating Benches and Leaning Rails: Bus stop seating to be installed at the locations indicated in the Drawings. Note that this does not include benches included as part of the Tolar shelters.
4. Waste and Recycling Bins: To be installed at the locations indicated in the Drawings.
5. Tolar Free-Standing Kiosks: To be installed at the locations indicated in the Drawings.

1.9 OWNER-FURNISHED/OWNER-INSTALLED (OFOI) PRODUCTS

A. The Owner will furnish and install products indicated.

B. Owner-Furnished/Owner-Installed (OFOI) Products:

1. Tolar Shelters and benches inside the shelters.
2. Bus Signs: Signage indicating where the bus shall load and unload passengers; these will be installed at all bus stops as indicated in the Drawings.
3. CCTV Cameras.

1.10 CONTRACTOR-FURNISHED/CONTRACTOR-INSTALLED (CFCI) PRODUCTS

A. The Contractor shall furnish and install products as indicated in the Drawings and Specifications.

B. Contractor-Furnished/Contractor-Installed (CFCI) Products (including but not limited to):

1. Marker luminaires: Light fixtures, cabling, and mounting accessories required to install a complete marker lighting system. See Section 265619 "Exterior Lighting".

2. Pedestrian light pole luminaires: Light fixtures, cabling, mounting accessories, and dimming accessories required to install a complete pedestrian lighting system. See Section 265619 “Exterior Lighting”.
3. Communications Surge Protector: To be installed in the communications cabinets as indicated in the Drawings. See Section 271550 “Communications Cabling and Surge Protection.”
4. Bus Flag post and detectable warning surface where indicated in the drawings.
5. All work not otherwise noted. All work is new unless noted otherwise.

1.11 CONTRACTOR'S USE OF SITE AND PREMISES

- A. Restricted Use of Site: Contractor shall have limited use of Project site for construction operations as indicated on Drawings by the Contract limits and as indicated by requirements of the contract documents.

Limits on Use of Site: Limit use of Project site to Work in areas indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated. Owner will not provide a laydown or assembly area for this project.

- B.
 1. Driveways, Walkways and Entrances: Keep driveways, loading areas, and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or for storage of materials.
 - a. Schedule deliveries to minimize use of driveways and entrances by construction operations.
 - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
- C. Condition of Existing Building: Maintain portions of existing building affected by construction operations in a weathertight condition throughout construction period. Repair damage caused by construction operations.
- D. Condition of Existing Grounds: Maintain portions of existing grounds, landscaping, and hardscaping affected by construction operations throughout construction period. Repair damage caused by construction operations.

1.12 COORDINATION WITH OCCUPANTS

- A. Private Property Owner Occupancy: Project sites are located adjacent to private property.
 1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and authorities having jurisdiction.
 2. Provide not less than 72 hours' notice to Owner of activities that will affect Owner's operations.

- B. Partial Owner Occupancy: Owner will occupy the premises during entire construction period, with the exception of areas under construction. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's operations. Maintain existing exits unless otherwise indicated.
1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and authorities having jurisdiction.
 2. Provide not less than 72 hours' notice to Owner of activities that will affect Owner's operations.

1.13 WORK RESTRICTIONS

- A. Comply with restrictions on construction operations.
1. Comply with limitations on use of public streets, work on public streets, rights of way, and other requirements of authorities having jurisdiction.
- B. Hours of Work: Limit work to between 7:00 a.m. to 6:00 p.m., Monday through Friday, unless otherwise indicated. Work hours may be modified to meet Project requirements if approved by Owner and authorities having jurisdiction. Written permission from Owner and Jurisdictional Authority is required if a Contractor desires to perform work outside of the hours listed above. Written permission is also required if a Contractor desires to perform work on holidays or Weekend day. The Contractor shall apply in writing to the Owner and authority for such permission no later than noon on the working day prior to the day for which the Contractor is requesting permission to work.

Permission to work between the hours of 10:00 p.m. and 7:00 a.m during weekdays and between the hours of 10:00 p.m. and 9:00 a.m. on weekends or holidays may also be subject to noise control requirements. Approval to continue work during these hours may be revoked at any time the Contractor exceeds the Owner or jurisdictional authority's control regulations or complaints are received from the public or adjoining property owners regarding noise from the Contractor's operations. The Contractor shall have no claim for damages or delays should such permission be revoked for these reasons.

Permission to work Saturdays, Sundays, holidays, or other than the agreed upon normal straight time working hours Monday through Friday may be given subject to certain conditions set forth by the Owner. These conditions may include but are not limited to:

- The Owner may require designated representatives to be present during the work. Representatives who may be deemed necessary include but are not limited to: survey crews, personnel from the Owner's material testing lab, inspectors and other employees or representatives when in the opinion of the Owner, such work necessitates their presence.
- Considering the work performed on Saturdays, Sundays, and holidays as working days with respect to the contract time.

- Considering multiple work shifts as multiple working days with respect to contract time, even though the multiple shifts occur in a single 24-hour period.

1.14 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
 2. Text Color: Text used in the Specifications, including units of measure, manufacturer and product names, and other text may appear in multiple colors or underlined as part of a hyperlink; no emphasis is implied by text with these characteristics.
 3. Hypertext: Text used in the Specifications may contain hyperlinks. Hyperlinks may allow for access to linked information that is not residing in the Specifications. Unless otherwise indicated, linked information is not part of the Contract Documents.
 4. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
- B. Division 00 Contracting Requirements: General provisions of the Contract, including General and Supplementary Conditions, apply to all Sections of the Specifications.
- C. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
- D. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:
1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
 2. Abbreviations: Materials and products are identified by abbreviations scheduled on Drawings.
 3. Keynoting: Materials and products are identified by reference keynotes referencing Specification Section numbers found in this Project Manual.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 011000

SECTION 012100 - ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements governing allowances.
 - 1. Certain items are specified in the Contract Documents by allowance. Allowances have been established to track actual time and materials. If necessary, additional requirements will be issued by Change Order.
- B. Types of allowances include the following:
 - 1. Time and Material allowance.

1.3 INFORMATIONAL SUBMITTALS

- A. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.
- B. Submit time sheets and other documentation to show labor time and costs for the allowance.
- C. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.4 COORDINATION

- A. Coordinate allowance items with other portions of the Work.

1.5 TIME AND MATERIAL ALLOWANCES

- A. Contractor's overhead, profit, and related costs for allowance are included in the allowance and are not part of the Contract Sum. These costs include delivery, installation, taxes, insurance, equipment rental, and similar costs. See 007200.1 Public works General Conditions, Part 7 for additional information.

- B. At Project closeout, credit unused amounts remaining in the allowance to Owner by Change Order.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALLOWANCES

- A. Allowance No. 1 – Site Irrigation: Include an allowance of \$10,000.
 - 1. This allowance includes time and material costs for irrigation impacts caused by tree removals.
- B. Allowance No. 2 – Landscaping: Include an allowance of \$20,000.
 - 1. This allowance includes time and material costs for Landscaping impacts caused by tree removals and construction activities.
- C. Allowance No. 3 – Utility Conflict Allowance: Include an allowance of \$20,000.
 - 1. This allowance includes time and material costs for items for impacts caused by potential utility conflicts.
- D. Allowance No. 4 – Additional Conduit Allowance VTC: Include an allowance of \$10,000.
 - 1. This allowance includes time and material costs for any additional conduit needs if the existing conduits at Valley Transit Center cannot be used for pulling conductors through.
- E. Allowance No. 5 - Construction Quality Control Plan (CQCP) Development and Implementation Allowance: Include an allowance of \$20,000.
 - 1. This allowance includes time and material costs for development, obtaining approval of, and implementing the CQCP for the duration of the project.

END OF SECTION 012100

SECTION 013300 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Submittal schedule requirements.
 - 2. Administrative and procedural requirements for submittals.
- B. Related Requirements:
 - 1. Section 014000 "Quality Requirements" for submitting test and inspection reports, and schedule of tests and inspections.
 - 2. Section 017823 "Operation and Maintenance Data" for submitting operation and maintenance manuals.
 - 3. Section 017839 "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data.

1.3 DEFINITIONS

- A. Action Submittals: Written and graphic information and physical samples that require Engineer's and Construction Manager's responsive action. Action submittals are those submittals indicated in individual Specification Sections as "action submittals."
- B. Informational Submittals: Written and graphic information and physical samples that do not require Engineer's and Construction Manager's responsive action. Submittals may be rejected for not complying with requirements. Informational submittals are those submittals indicated in individual Specification Sections as "informational submittals."

1.4 SUBMITTAL SCHEDULE

- A. Submittal Schedule: Submit, as an action submittal, a list of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by Engineer and Construction Manager and additional time for handling and reviewing submittals required by those corrections.
 - 1. Coordinate submittal schedule with list of subcontracts, the schedule of values, and Contractor's construction schedule.

2. Initial Submittal Schedule: Submit concurrently with the preliminary progress schedule. Include submittals required during the first 60 days of construction. List those submittals required to maintain orderly progress of the Work and those required early because of long lead time for manufacture or fabrication.
3. Final Submittal Schedule: Submit concurrently with the first complete submittal of Contractor's construction schedule.
 - a. Submit revised submittal schedule as required to reflect changes in current status and timing for submittals.
4. Format: Arrange the following information in a tabular format:
 - a. Scheduled date for first submittal.
 - b. Specification Section number and title.
 - c. Submittal Category: Action; informational.
 - d. Name of subcontractor.
 - e. Description of the Work covered.
 - f. Scheduled date for Engineer's **and** Construction Manager's final release or approval.

1.5 SUBMITTAL FORMATS

- A. Submittal Information: Owner will provide a transmittal cover sheet template for use with all submittals. Include the following information in each submittal:
 1. Project name.
 2. Date.
 3. Name of Architect/Engineer.
 4. Name of Construction Manager.
 5. Name of Contractor.
 6. Name of firm or entity that prepared submittal.
 7. Names of subcontractor, manufacturer, and supplier.
 8. Unique submittal number, including revision identifier. Include Specification Section number with sequential alphanumeric identifier and alphanumeric suffix for resubmittals.
 9. Submittal purpose and description.
 10. Number and title of Specification Section, with paragraph number and generic name for each of multiple items.
 11. Drawing number and detail references, as appropriate.
 12. Indication of full or partial submittal.
 13. Location(s) where product is to be installed, as appropriate.
 14. Other necessary identification.
 15. Remarks.
 16. Signature of transmitter.
- B. Options: Identify options requiring selection by Owner.
- C. Deviations and Additional Information: On each submittal, clearly indicate deviations from requirements in the Contract Documents, including minor variations and limitations; include relevant additional information and revisions, other than those requested by Architect/Engineer

on previous submittals. Indicate by highlighting on each submittal or noting on attached separate sheet.

- D. Electronic Submittals: Prepare submittals as PDF package, incorporating complete information into each PDF file. Name PDF file with submittal number.
- E. Submittals Utilizing Web-Based Project Software: Prepare submittals as PDF files or other format indicated by Project management software.

1.6 SUBMITTAL PROCEDURES

- A. Prepare and submit submittals required by individual Specification Sections. Types of submittals are indicated in individual Specification Sections.
 - 1. Email: Prepare submittals as PDF package and transmit to Architect/Engineer by sending via email. Include PDF transmittal form. Include information in email subject line as requested by Architect.
 - a. Architect/Engineer, through Construction Manager, will return annotated file. Annotate and retain one copy of file as a digital Project Record Document file.
 - 2. Web-Based Project Management Software: Prepare submittals in PDF form, and upload to web-based Project management software website. Enter required data in web-based software site to fully identify submittal.
- B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
 - 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 - 2. Submit all submittal items required for each Specification Section concurrently unless partial submittals for portions of the Work are indicated on approved submittal schedule.
 - 3. Submit action submittals and informational submittals required by the same Specification Section as separate packages under separate transmittals.
 - 4. Coordinate transmittal of submittals for related parts of the Work specified in different Sections, so processing will not be delayed because of need to review submittals concurrently for coordination.
 - a. Architect/engineer reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- C. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's/Engineer's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
 - 1. Initial Review: Allow 15 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Construction Manager will advise Contractor when a submittal being processed must be delayed for coordination.

2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
 3. Resubmittal Review: Allow 15 days for review of each resubmittal.
 4. Sequential Review: Where sequential review of submittals by Architect's consultants, Owner, or other parties is indicated, allow 21 days for initial review of each submittal.
 5. Concurrent Consultant Review: Where the Contract Documents indicate that submittals may be transmitted simultaneously to Architect/Engineer and to Architect/Engineer's consultants, allow 15 days for review of each submittal. Submittal will be returned to Construction Manager, through Architect, before being returned to Contractor.
- D. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.
1. Note date and content of previous submittal.
 2. Note date and content of revision in label or title block, and clearly indicate extent of revision.
 3. Resubmit submittals until they are marked with approval notation from Architect/Engineer's action stamp.
- E. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.
- F. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Architect/Engineer's action stamp.

1.7 SUBMITTAL REQUIREMENTS

- A. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
1. If information must be specially prepared for submittal because standard published data are unsuitable for use, submit as Shop Drawings, not as Product Data.
 2. Mark each copy of each submittal to show which products and options are applicable.
 3. Include the following information, as applicable:
 - a. Manufacturer's catalog cuts.
 - b. Manufacturer's product specifications.
 - c. Standard color charts.
 - d. Statement of compliance with specified referenced standards.
 - e. Testing by recognized testing agency.
 - f. Application of testing agency labels and seals.
 - g. Notation of coordination requirements.
 - h. Availability and delivery time information.
 4. For equipment, include the following in addition to the above, as applicable:
 - a. Wiring diagrams that show factory-installed wiring.
 - b. Printed performance curves.
 - c. Operational range diagrams.

- d. Clearances required to other construction, if not indicated on accompanying Shop Drawings.
 5. Submit Product Data before Shop Drawings, and before or concurrently with Samples.
- B. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data unless submittal based on Architect's digital data drawing files is otherwise permitted.
 1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
 - a. Identification of products.
 - b. Schedules.
 - c. Compliance with specified standards.
 - d. Notation of coordination requirements.
 - e. Notation of dimensions established by field measurement.
 - f. Relationship and attachment to adjoining construction clearly indicated.
 - g. Seal and signature of professional engineer if specified.
- C. Samples: Submit Samples for review of type, color, pattern, and texture for a check of these characteristics with other materials.
 1. Transmit Samples that contain multiple, related components, such as accessories together in one submittal package.
 2. Identification: Permanently attach label on unexposed side of Samples that includes the following:
 - a. Project name and submittal number.
 - b. Generic description of Sample.
 - c. Product name and name of manufacturer.
 - d. Sample source.
 - e. Number and title of applicable Specification Section.
 - f. Specification paragraph number and generic name of each item.
 3. Email Transmittal: Provide PDF transmittal. Include digital image file illustrating Sample characteristics and identification information for record.
 4. Web-Based Project Management Software: Prepare submittals in PDF form, and upload to web-based Project software website. Enter required data in web-based software site to fully identify submittal.
 5. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
 - a. Samples not incorporated into the Work, or otherwise designated as Owner's property, are the property of Contractor.
- D. Product Schedule: As required in individual Specification Sections, prepare a written summary indicating types of products required for the Work and their intended location. Include the following information in tabular form:

1. Type of product. Include unique identifier for each product indicated in the Contract Documents or assigned by Contractor if none is indicated.
 2. Manufacturer and product name, and model number if applicable.
 3. Number and name of room or space.
 4. Location within room or space.
- E. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.
- F. Design Data: Prepare and submit written and graphic information indicating compliance with indicated performance and design criteria in individual Specification Sections. Include list of assumptions and summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations. Number each page of submittal.
- G. Certificates:
1. Certificates and Certifications Submittals: Submit a statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity. Provide a notarized signature where indicated.
 2. Installer Certificates: Submit written statements on manufacturer's letterhead, certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.
 3. Manufacturer Certificates: Submit written statements on manufacturer's letterhead, certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.
 4. Material Certificates: Submit written statements on manufacturer's letterhead, certifying that material complies with requirements in the Contract Documents.
 5. Product Certificates: Submit written statements on manufacturer's letterhead, certifying that product complies with requirements in the Contract Documents.
 6. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents. Submit record of AWS B2.1/B2.1M on AWS forms. Include names of firms and personnel certified.
- H. Test and Research Reports:
1. Compatibility Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of compatibility tests performed before installation of product. Include written recommendations for substrate preparation and primers required.
 2. Field Test Reports: Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.
 3. Material Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.
 4. Preconstruction Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of tests performed before installation of product, for compliance with performance requirements in the Contract Documents.

5. Product Test Reports: Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.
6. Research Reports: Submit written evidence, from a model code organization acceptable to authorities having jurisdiction, that product complies with building code in effect for Project. Include the following information:
 - a. Name of evaluation organization.
 - b. Date of evaluation.
 - c. Time period when report is in effect.
 - d. Product and manufacturers' names.
 - e. Description of product.
 - f. Test procedures and results.
 - g. Limitations of use.

1.8 CONTRACTOR'S REVIEW

- A. Action Submittals and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect/Engineer and Construction Manager.
- B. Contractor's Approval: Indicate Contractor's approval for each submittal with indication in web-based Project management software. Include name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.
 1. Architect/Engineer will not review submittals received from Contractor that do not have Contractor's review and approval.

1.9 ARCHITECT/ENGINEER'S REVIEW

- A. Action Submittals: Architect/Engineer will review each submittal, indicate corrections or revisions required, and return.
 1. PDF Submittals: Architect/Engineer will indicate, via markup on each submittal, the appropriate action.
- B. Informational Submittals: Architect/Engineer and Construction Manager will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect/Engineer and Construction Manager will forward each submittal to appropriate party.
- C. Partial submittals prepared for a portion of the Work will be reviewed when use of partial submittals has received prior approval from Architect/Engineer and Construction Manager.
- D. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.

- E. Architect/Engineer will return without review submittals received from sources other than Contractor.
- F. Submittals not required by the Contract Documents will be returned by Architect without action.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 013300

SECTION 014000 - QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for quality assurance and quality control.
- B. Testing and inspection services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
 - 1. Specific quality-assurance and quality-control requirements for individual work results are specified in their respective Specification Sections. Requirements in individual Sections may also cover production of standard products.
 - 2. Specified tests, inspections, and related actions do not limit Contractor's other quality-assurance and quality-control procedures that facilitate compliance with the Contract Document requirements.
 - 3. Requirements for Contractor to provide quality-assurance and quality-control services required by Owner, or authorities having jurisdiction are not limited by provisions of this Section.
 - 4. For each work package and in addition to the Schedule requirements discussed in Division 0, the Contractor shall provide an installation schedule in advance for approval by STA.
- C. Related Requirements:
 - 1. Section 276000 "Technology Component Installation and Testing" for installation responsibilities and testing expectations for Owner-Furnished Contractor-Installed technology components.

1.3 DEFINITIONS

- A. Experienced: When used with an entity or individual, "experienced," unless otherwise further described, means having successfully completed a minimum of five previous projects similar in nature, size, and extent to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.
- B. Field Quality-Control Tests and Inspections: Tests and inspections that are performed on-site for installation of the Work and for completed Work.

- C. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, subcontractor, or sub-subcontractor, to perform a particular construction operation, including installation, erection, application, assembly, and similar operations.
 - 1. Use of trade-specific terminology in referring to a Work result does not require that certain construction activities specified apply exclusively to specific trade(s).
- D. Preconstruction Testing: Tests and inspections performed specifically for Project before products and materials are incorporated into the Work, to verify performance or compliance with specified criteria. Unless otherwise indicated, copies of reports of tests or inspections performed for other than the Project do not meet this definition.
- E. Product Tests: Tests and inspections that are performed by a nationally recognized testing laboratory (NRTL) according to 29 CFR 1910.7, by a testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program (NVLAP), or by a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with specified requirements.
- F. Source Quality-Control Tests and Inspections: Tests and inspections that are performed at the source (e.g., plant, mill, factory, or shop).
- G. Testing Agency: An entity engaged to perform specific tests, inspections, or both. The term "testing laboratory" has the same meaning as the term "testing agency."
- H. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work, to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
- I. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work, to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Contractor's quality-control services do not include contract administration activities performed by Owner.

1.4 CONFLICTING REQUIREMENTS

- A. Conflicting Standards and Other Requirements: If compliance with two or more standards or requirements is specified and the standards or requirements establish different or conflicting requirements for minimum quantities or quality levels, inform the Owner regarding the conflict and obtain clarification prior to proceeding with the Work. Refer conflicting requirements that are different, but apparently equal, to Owner for clarification before proceeding.
- B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified is the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Owner for a decision before proceeding.

1.5 INFORMATIONAL SUBMITTALS

- A. Contractor's Quality-Control Plan: Refer to the requirements in Section 007300 Supplemental Conditions.
- B. Bus Arrival Beacon Acceptance Testing Plan: For testing procedures used to verify functionality of Bus Arrival Beacon System.
- C. Installation Design Documentation: For documenting Contractor's intended installation plan for all technology components.
- D. Installation Design Documentation (IDD):
 - 1. The Contractor shall submit Installation Design Documentation for the Bus Arrival Beacon System.
 - 2. The Contractor shall submit Installation Design Documentation for any system that deviates from the manufacturer's installation manual.
 - 3. All Installation Design Documentation shall be submitted to Owner for approval before undertaking any installations.
 - a. Contractor shall install all equipment per the approved IDD.
 - 1) The IDD shall provide adequately detailed text, drawings, illustrations, and images to allow a technician's quality installation without further training or installation instructions from the vendors of the individual equipment components.
 - b. As applicable, the IDD shall include details on:
 - 1) Equipment installation locations/mounting;
 - 2) Routing, conductors, color-coding, labeling, and connectors for power, communications, and vehicle ground circuits;
 - 3) Connections with, any required modifications to, and restoration of existing infrastructure;
 - 4) Any deviations from off-the-shelf component installation instructions;
 - 5) Work area and equipment storage requirements;
 - 6) Pre- and post-installation checklists for tests that the installers shall perform; and
 - 7) Supervision and quality assurance procedures.
- E. Reports: Prepare and submit certified written reports and documents as specified.
- F. Permits, Licenses, and Certificates: For Owner's record, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents established for compliance with standards and regulations bearing on performance of the Work.

1.6 REPORTS AND DOCUMENTS

- A. Test and Inspection Reports: Prepare and submit certified written reports specified in other Sections. Include the following:
 - 1. Date of issue.
 - 2. Project title and number.
 - 3. Name, address, telephone number, and email address of testing agency.

4. Dates and locations of samples and tests or inspections.
5. Names of individuals making tests and inspections.
6. Description of the Work and test and inspection method.
7. Identification of product and Specification Section.
8. Complete test or inspection data.
9. Test and inspection results and an interpretation of test results.
10. Record of temperature and weather conditions at time of sample-taking and testing and inspection.
11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
12. Name and signature of laboratory inspector.
13. Recommendations on retesting and reinspecting.

B. Manufacturer's Technical Representative's Field Reports: Prepare written information documenting manufacturer's technical representative's tests and inspections specified in other Sections. Include the following:

1. Name, address, telephone number, and email address of technical representative making report.
2. Statement on condition of substrates and their acceptability for installation of product.
3. Statement that products at Project site comply with requirements.
4. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.
5. Results of operational and other tests and a statement of whether observed performance complies with requirements.
6. Statement of whether conditions, products, and installation will affect warranty.
7. Other required items indicated in individual Specification Sections.

1.7 QUALITY ASSURANCE

- A. Qualifications paragraphs in this article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.
- B. Installer Qualifications: A firm or individual experienced in installing, erecting, applying, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
- C. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or product that is similar in material, design, and extent to those indicated for this Project.

1.8 QUALITY CONTROL

- A. Retesting/Reinspecting: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for construction that replaced Work that failed to comply with the Contract Documents.

- B. Contractor's Associated Requirements and Services: Cooperate with agencies and representatives performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
1. Access to the Work.
 2. Incidental labor and facilities necessary to facilitate tests and inspections.
 3. Adequate quantities of representative samples of materials that require testing and inspection. Assist agency in obtaining samples.
 4. Facilities for storage and field curing of test samples.
 5. Preliminary design mix proposed for use for material mixes that require control by testing agency.
 6. Security and protection for samples and for testing and inspection equipment at Project site.
- C. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and quality-control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspection.
1. Schedule times for tests, inspections, obtaining samples, and similar activities.
- D. Schedule of Tests and Inspections: Prepare a schedule of tests, inspections, and similar quality-control services required by the Contract Documents as a component of Contractor's quality-control plan. Coordinate and submit concurrently with Contractor's Construction Schedule. Update and submit with each Application for Payment.
1. Schedule Contents: Include tests, inspections, and quality-control services, including Contractor- and Owner-retained services, commissioning activities, and other Project-required services paid for by other entities.
 2. Distribution: Distribute schedule to Owner, Architect, Construction Manager, testing agencies, and each party involved in performance of portions of the Work where tests and inspections are required.

1.9 SPECIAL TESTS AND INSPECTIONS

- A. Special Tests and Inspections: Owner will engage a qualified special inspector to conduct special tests and inspections required by authorities having jurisdiction as the responsibility of Owner and as follows:
1. Notifying Owner, Construction Manager, and Contractor promptly of irregularities and deficiencies observed in the Work during performance of its services.
 2. Submitting a certified written report of each test, inspection, and similar quality-control service to Owner, through Construction Manager, with copy to Contractor and to authorities having jurisdiction.
 3. Submitting a final report of special tests and inspections at Substantial Completion, which includes a list of unresolved deficiencies.
 4. Interpreting tests and inspections, and stating in each report whether tested and inspected Work complies with or deviates from the Contract Documents.
 5. Retesting and reinspecting corrected Work.

PART 3 - EXECUTION

3.1 TEST AND INSPECTION LOG

- A. Test and Inspection Log: Prepare a record of tests and inspections. Include the following:
 - 1. Date test or inspection was conducted.
 - 2. Description of the Work tested or inspected.
 - 3. Date test or inspection results were transmitted to Owner.
 - 4. Identification of testing agency or special inspector conducting test or inspection.
- B. Quality Control Checklists: For each installation site, the Contractor shall develop a Checklist that includes verification of the following:
 - 1. Power-up/power-down tests,
 - 2. Log-on/log-off tests, if applicable,
 - 3. Verification of major functions, and
 - 4. Verification of operational interfaces to other devices, if applicable.
- C. STA may authorize the Contractor to proceed to the next station/installation site with Minor Impact deficiencies not yet resolved.
 - 1. Operational readiness shall only be entered after all deficiencies, regardless of classification, are resolved and fully demonstrated by the Contractor to the agency's satisfaction.
- D. Maintain log at Project site. Post changes and revisions as they occur. Provide access to test and inspection log for Owner's, Construction Manager's, and authorities' having jurisdiction reference during normal working hours.
 - 1. Submit log at Project closeout as part of Project Record Documents.

3.2 REPAIR AND PROTECTION

- A. General: On completion of testing, inspection, sample-taking, and similar services, repair damaged construction and restore substrates and finishes.
 - 1. Provide materials and comply with installation requirements specified in other Specification Sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible.
- B. Protect construction exposed by or for quality-control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION 014000

SECTION 015526 – TRAFFIC CONTROL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. The Contractor shall provide temporary traffic control at all installation sites.
- B. The Contractor shall develop Temporary Traffic Control Plans that define the labor, procedures, and equipment needed for all temporary traffic control required for the Work.
- C. Related Requirements:
 - 1. Section 011000 "Summary" for work restrictions and limitations on utility interruptions.

1.3 ACTION SUBMITTALS

- A. Temporary Traffic Control Plan: Comply with all traffic control requirements of authorities having jurisdiction.
 - 1. Submit Temporary Traffic Control Plans for each Work Package.
- B. Project Identification and Temporary Signs: Show fabrication and installation details, including plans, elevations, details, layouts, typestyles, graphic elements, and message content.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. All Traffic Control materials shall comply with requirements of authorities having jurisdiction.

PART 3 - EXECUTION

3.1 TRAFFIC CONTROL

- A. Traffic Controls: Comply with requirements of authorities having jurisdiction.
 - 1. Protect existing site improvements to remain, including curbs, pavement, and utilities.
 - 2. Maintain access for fire-fighting equipment and access to fire hydrants.

3. Maintain traffic along adjacent streets.
 4. Traffic control and flaggers shall be provided for temporary one lane closure to install proposed improvements.
 5. Traffic control shall adhere to City of Spokane standards.
- B. The Contractor shall develop and submit for approval any detour plans as required to complete the work defined in these contract documents.
- C. In the event revisions to the detour plan are required due to construction events, the Contractor shall submit a revised detour plan to the Engineer, for approval, not less than 5 working days before effecting said revisions.
- D. For installation for the Sprague Line Phase 2 Package, the Contractor shall incorporate the following requirements into the Traffic Control Plan:
1. The Contractor shall maintain at least one clear lane of traffic on all streets for all hours during all phases of this project unless otherwise specified in these contract documents and the Contractor will submit a traffic control plan for approval by the Owner.
 - a. Minimum lane width shall be 10-feet.
 2. The Contractor may close (Spokane Falls Blvd improvements, Maple and Pacific Ave Intersection improvements, Cincinnati Street from Springfield to Desmet, Cincinnati Street and Sharp Avenue, and Cincinnati Street between Desmet and Boone) completely to through traffic, unless specifically noted below.
 - a. These streets shall be reopened to traffic as quickly as possible.
 - b. Any work that reduces the width of any of the above noted streets to less than the noted number of clear lanes for 1 hour or longer, shall be conducted between the hours of: 9:00 a.m. and 3:30 p.m.
 3. Lane closures shall follow the requirements below:
 - a. If the Engineer determines the permitted closure hours adversely affect traffic, the Engineer may adjust the hours accordingly. The Engineer will notify the Contractor in writing of any change in the closure hours.
 - b. Lane closures are not allowed on any of the following:
 - 1) A holiday,
 - 2) A holiday weekend; holidays that occur on Friday, Saturday, Sunday or Monday are considered a holiday weekend. A holiday weekend includes Saturday, Sunday, and the holiday.
 - 3) After 1:00 p.m. on the day prior to a holiday or holiday weekend, and
 - 4) Before 9:00 a.m. on the day after the holiday or holiday weekend.
- E. Business and Residential Notification
1. The project limits include a business and commercial district, and a residential area, and the Contractor shall be sensitive to the unique needs of each including deliveries, customer access, employee access, freight distribution, and residential access/parking.
 2. The Contractor shall meet with and notify, in writing, the affected business or resident seven (7) working days prior to beginning Work, and a copy shall be provided to the Engineer. The notification shall be approved by the Owner prior to distribution. The notification shall include when the Work will begin, the order in which sidewalk and access—including alleys and driveways will be affected, and the length of time the Work will require. The notification shall include Contractor contact names and phone numbers, the Owner contact numbers, available during working and non-working days.
 3. Where the Contractor's operation requires the temporary closure of an alley, driveway, or sidewalk, the following shall apply:

- a. At properties with more than one access: If the closure is expected to exceed two hours, the Work shall be performed during non-work hours of the affected business.
- b. At properties with only one access: The Contractor shall meet with the property owner(s) and/or business management seven (7) working days prior to any closure of the access to inform them of the Work and how it will affect their access.

F. Spokane Transit Authority Notification

1. The Contractor shall notify the Spokane Transit Authority (STA), in writing, seven (7) working days in advance for construction related activities concerning lane restrictions to provide route coordination with the STA bus system and to include STA in weekly construction activity meetings. Spokane Transit Authority will maintain contact with the Stakeholders.
 - a. Contact:
Dan Wells, Deputy Director of Capital Development SPOKANE TRANSIT AUTHORITY
1230 W. BOONE AVE
SPOKANE, WASHINGTON 99201
Phone: (509)344-1695
email at dwells@spokanetransit.com
2. The Contractor shall also notify the Spokane Transit Authority, in writing, 48 hours before any bus stop sign relocation or removal related activities are conducted. STA will maintain contact with the Stakeholders.
 - a. Contact:
Kyle Trotchie, Special Events Coordinator
SPOKANE TRANSIT AUTHORITY
1230 W. BOONE AVE
SPOKANE, WASHINGTON 99201
Phone: (509)344-1871
email at ktrotchie@spokanetransit.com

END OF SECTION 015526

SECTION 017300 - EXECUTION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes general administrative and procedural requirements governing execution of the Work, including, but not limited to, the following:
 - 1. Construction layout.
 - 2. Field engineering and surveying.
 - 3. Installation of the Work.
 - 4. Cutting and patching.
 - 5. Coordination of Owner's portion of the Work.
 - 6. Coordination of Owner-installed products.
 - 7. Starting and adjusting.
 - 8. Protection of installed construction.
 - 9. Correction of the Work.
- B. Related Requirements:
 - 1. Section 011000 "Summary" for coordination of Owner-furnished products, Owner-performed work, Owner's separate contracts, and limits on use of Project site.
 - 2. Section 013300 "Submittal Procedures" for submitting surveys.
 - 3. Section 017700 "Closeout Procedures" for submitting final property survey with Project Record Documents, recording of Owner-accepted deviations from indicated lines and levels, replacing defective work, and final cleaning.

1.2 DEFINITIONS

- A. Cutting: Removal of in-place construction necessary to permit installation or performance of subsequent work.
- B. Patching: Fitting and repair work required to restore construction to original/final conditions after installation of subsequent work.

1.3 PREINSTALLATION MEETINGS

- A. Conduct pre-installation meeting at each Project site prior to starting work. This meeting shall include Construction Management team and representatives of all contractors, vendors, STA employees and STA representatives. Notify all attendees minimum ten (10) business days in advance.
 - 1. Review meanings and intent of dimensions, notes, terms, graphic symbols, and other layout information indicated on the Drawings.
 - 2. Review requirements for including layouts on Shop Drawings and other submittals.

3. Review areas of potential interference and conflict. Coordinate procedures and resolve potential conflicts before proceeding.
4. Review anticipated schedule, phasing and responsibilities for each contractor, vendor and STA group.

1.4 QUALITY ASSURANCE

- A. Professional Engineer Qualifications: Refer to Section 014000 "Quality Requirements."
- B. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.
 1. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the site's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.
- C. Manufacturer's Installation Instructions: Obtain and maintain on-site manufacturer's written recommendations and instructions for installation of specified products and equipment.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Comply with requirements specified in other Sections.
- B. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
 1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to Architect for the visual and functional performance of in-place materials. Use materials that are not considered hazardous.
- C. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Existing Conditions: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning sitework, investigate and verify the existence and location of underground utilities, mechanical and electrical systems, and other construction affecting the Work.

1. Before construction, verify the location and invert elevation at points of connection of storm sewer, underground electrical and communication conduits; and other utilities.
 2. Before construction at each site, perform a site survey to document existing conditions with photographs.
 3. These procedures should be identified in the submitted Work Plan as described in Section 007300 Supplemental Conditions.
- B. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.
1. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation.
 2. Examine platforms for suitable conditions where products and systems are to be installed.
 3. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
- C. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Existing Utility Information: Furnish information to Owner that is necessary to adjust, move, or relocate existing utility structures, utility poles, lines, services, or other utility appurtenances located in or affected by construction. Coordinate with authorities having jurisdiction.
- B. Underground Utility Locates:
1. Before any excavation work begins, the Contractor shall obtain all necessary underground utility locates, in accordance with applicable local and state regulations.
 2. The Contractor shall engage a professional utility locating service to identify and mark the location of all underground utilities, including but not limited to electric power lines, gas lines, water mains, telecommunications lines, and existing underground conduits.
 3. The Contractor shall provide the professional utility locating service with accurate plans showing the proposed location of all excavation work, as well as the location of any existing underground conduits.
 4. The Contractor shall ensure that all underground utility locates are obtained at least 48 hours prior to any excavation work.
 5. If any conflicts are identified during the underground utility locate process, including conflicts with existing underground conduits, the Contractor shall immediately report the conflict to the Owner and the professional utility locating service.
 6. The Contractor shall take appropriate measures to protect any existing underground conduits during excavation work and shall ensure that any damage to existing conduits is promptly repaired in accordance with industry standards.
 7. The Contractor shall comply with all local and state regulations regarding underground utility locates and shall ensure that all excavation work is performed in a safe and responsible manner.

8. The Contractor shall maintain accurate records of all underground utility locates and conflicts, including any existing underground conduits, and shall provide these records to the Owner upon request.
- C. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before beginning installation. Coordinate installation schedule with fabrication contractor and construction progress to avoid delaying the Work.
- D. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.
- E. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents, submit a request for information to Owner through Construction Manager in accordance with requirements in Section 013100 "Project Management and Coordination."

3.3 CONSTRUCTION LAYOUT

- A. Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to the property survey and existing benchmarks, work points and existing conditions. Layout work from work point. If discrepancies are discovered, notify Owner and Construction Manager promptly.
- B. Site Improvements: Locate site improvements, including pavements, grading, fill and topsoil placement, utility slopes, and rim and invert elevations. On through curb drains for downspouts, layout drain piping and fittings from downspout outlet to through curb stub-in piping.
- C. Building Lines and Levels: Locate and lay out control lines and levels for structures, including those required for mechanical and electrical work. Transfer survey markings and elevations for use with control lines and levels. Level check foundations and piers from two or more locations.
- D. Record Log: Maintain a log of layout control work. Record deviations from required lines and levels. Include beginning and ending dates and times of surveys, weather conditions, name and duty of each survey party member, and types of instruments and tapes used. Make the log available for reference by Owner and Construction Manager.

3.4 INSTALLATION

- A. Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
 1. Make vertical work plumb, and make horizontal work level.
 2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
 3. Conceal pipes, ducts, and wiring in finished areas unless otherwise indicated.

- B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.
- C. Install products at the time and under conditions that will ensure satisfactory results as judged by Owner. Maintain conditions required for product performance until Substantial Completion.
- D. Conduct construction operations, so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy of type expected for Project.
- E. Sequence the Work and allow adequate clearances to accommodate movement of construction items on-site and placement in permanent locations.
- F. Tools and Equipment: Select tools or equipment that minimize production of excessive noise levels.
- G. Templates: Obtain and distribute to the parties involved templates for Work specified to be factory prepared and field installed. Check Shop Drawings or Installation Manuals for other portions of the Work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.
- H. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work, in accordance with the Drawings. Where size and type of attachments are not indicated, verify size and type required for load conditions with manufacturer.
 - 1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect/Engineer.
 - 2. Allow for building movement, including thermal expansion and contraction.
 - 3. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded or post installed in concrete unless documents indicate they are furnished by fabrication contractor. Deliver such items to Project site in time for installation.
- I. Joints: Make joints of uniform width. Where joint locations in exposed Work are not indicated, arrange joints for the best visual effect, as judged by Architect. Fit exposed connections together to form hairline joints.

3.5 CUTTING AND PATCHING

- A. General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
 - 1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.

- B. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during installation or cutting and patching operations, by methods and with materials so as not to void existing warranties.
- C. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
- D. Adjacent Occupied Areas: Where interference with use of adjoining areas or interruption of free passage to adjoining areas is unavoidable, coordinate cutting and patching in accordance with requirements in Section 011000 "Summary."
- E. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to minimize interruption to occupied areas.
- F. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
 - 1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 - 2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
 - 3. Concrete and Masonry: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
 - 4. Excavating and Backfilling: Comply with requirements in applicable Sections where required by cutting and patching operations.
 - 5. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
 - 6. Proceed with patching after construction operations requiring cutting are complete.
- G. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other Work. Patch with durable seams that are as invisible as practicable, as judged by Architect. Provide materials and comply with installation requirements specified in other Sections, where applicable.
 - 1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.
 - 2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
 - a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
 - b. Restore damaged pipe covering to its original condition.
 - 3. Concrete Paving: Where concrete paving is damaged by this contract's operations cut, patch, repair and replace as required to achieve an even surface of uniform finish, color,

texture, and appearance. Remove in-place concrete paving and replace with new materials, if necessary, to achieve uniform color and appearance.

- a. Where patching occurs in a painted surface, prepare substrate and apply primer and intermediate paint coats appropriate for substrate over the patch, and apply final paint coat over entire unbroken surface containing the patch, corner to corner of wall and edge to edge of ceiling. Provide additional coats until patch blends with adjacent surfaces.
 4. Exterior Structure Enclosure: Patch components in a manner that restores enclosure to a weathertight condition and ensures thermal and moisture integrity of building enclosure.
 5. Refer to High Performance Coatings Touchup specification section for specifics on how to repair damage to the prefinished components.
- H. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.6 COORDINATION OF OWNER'S PORTION OF THE WORK

- A. Site Access: Provide access to Project site for Owner's separate contractors.
1. Provide temporary facilities required for Owner-furnished, Contractor-installed products.
 2. Refer to Section 011000 "Summary" for other requirements for Owner-furnished, Contractor-installed and Owner-furnished, Owner-installed products.
- B. Coordination: Coordinate construction and operations of the Work with work performed by Owner's separate contractors.
1. Construction Schedule: Inform Owner of Contractor's preferred construction schedule for Owner's portion of the Work. Adjust construction schedule based on a mutually agreeable timetable. Notify Owner if changes to schedule are required due to differences in actual construction progress.
 2. Preinstallation Conferences: Include Owner's separate contractors at preinstallation conferences covering portions of the Work that are to receive Owner's work. Attend preinstallation conferences conducted by Owner's separate contractors if portions of the Work depend on Owner's construction.

3.7 PROGRESS CLEANING

- A. Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.
1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
 2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F (27 deg C).
 3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
- a. Use containers intended for holding waste materials of type to be stored.

4. Coordinate progress cleaning for joint-use areas where Contractor and other contractors are working concurrently.
- B. Site: Maintain Project site free of waste materials and debris.
- C. Work Areas: Clean areas where Work is in progress to the level of cleanliness necessary for proper execution of the Work.
 1. Remove liquid spills promptly.
 2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.
- D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.
- E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.
- F. Exposed Surfaces: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.
- G. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways. Comply with waste disposal requirements in Section 017419 "Construction Waste Management and Disposal."
- H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.
- I. Limiting Exposures: Supervise construction operations to ensure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.
- J. Final Cleaning: Prior to substantial completion and acceptance, clean all amenities and appurtenances.

3.8 STARTING AND ADJUSTING

- A. Start equipment and operating components to confirm proper operation. Remove malfunctioning units, replace with new units, and retest.
- B. Adjust equipment for proper operation. Adjust operating components for proper operation without binding.
- C. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

- D. Manufacturer's Field Service: Comply with qualification requirements in Section 014000 "Quality Requirements."

3.9 PROTECTION OF INSTALLED CONSTRUCTION

- A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.
- B. Protection of Existing Items: Provide protection and ensure that existing items to remain undisturbed by construction are maintained in condition that existed at commencement of the Work.
- C. Comply with manufacturer's written instructions for temperature and relative humidity.

3.10 CORRECTION OF THE WORK

- A. Any corrections of Work required shall be completed by the Contractor at no expense to Owner.
- B. Repair or remove and replace damaged, defective, or nonconforming Work. Restore damaged substrates and finishes.
 - 1. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.
- C. Repair Work previously completed and subsequently damaged during construction period. Repair to like-new condition.
- D. Restore permanent facilities used during construction to their specified condition.
- E. Remove and replace damaged surfaces that are exposed to view if surfaces cannot be repaired without visible evidence of repair.
- F. Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.
- G. Remove and replace chipped, scratched, and broken glass or reflective surfaces.

END OF SECTION 017300

SECTION 017839 - PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for Project Record Documents, including the following:
 - 1. Record Drawings.
 - 2. Record specifications.
 - 3. Record Product Data.
 - 4. Miscellaneous record submittals.
- B. Related Requirements:
 - 1. Section 011000 "Summary" for coordinating Project Record Documents covering the Work of multiple contracts.
 - 2. Section 017300 "Execution" for final property survey.
 - 3. Section 017700 "Closeout Procedures" for general closeout procedures.
 - 4. Section 017823 "Operation and Maintenance Data" for operation and maintenance manual requirements.

1.3 CLOSEOUT SUBMITTALS

- A. Record Drawings: Comply with the following:
 - 1. Number of Copies: Submit one set of marked-up record prints.
 - 2. Number of Copies: Submit copies of Record Drawings as follows:
 - a. Initial Submittal:
 - 1) Submit one paper-copy set of marked-up record prints.
 - 2) Submit PDF electronic files of scanned record prints and one set of file prints.
 - 3) Submit Record Digital Data Files and one set of plots.
 - 4) Architect/Engineer and Owner will indicate whether general scope of changes, additional information recorded, and quality of drafting are acceptable.
 - b. Final Submittal:

- 1) Submit one paper-copy set of marked-up record prints.
 - 2) Submit Record Digital Data Files and three sets of Record Digital Data File plots.
 - 3) Plot each drawing file, whether or not changes and additional information were recorded.
- B. Record Specifications: Submit annotated PDF electronic files of Project's Specifications, including addenda and Contract modifications.
- C. Record Product Data: Submit annotated PDF electronic files and directories of each submittal.
 1. Where record Product Data are required as part of operation and maintenance manuals, submit duplicate marked-up Product Data as a component of manual.
- D. Miscellaneous Record Submittals: See other Specification Sections for miscellaneous record-keeping requirements and submittals in connection with various construction activities. Submit annotated PDF electronic files and directories of each submittal.
- E. Reports: Submit written report weekly indicating items incorporated into Project Record Documents concurrent with progress of the Work, including revisions, concealed conditions, field changes, product selections, and other notations incorporated.

1.4 RECORD DRAWINGS

- A. Record Prints: Maintain one set of marked-up paper copies of the Contract Drawings and Shop Drawings, incorporating new and revised drawings as modifications are issued.
 1. Preparation: Mark record prints to show the actual installation, where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to provide information for preparation of corresponding marked-up record prints.
 - a. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
 - b. Accurately record information in an acceptable drawing technique.
 - c. Record data as soon as possible after obtaining it.
 - d. Record and check the markup before enclosing concealed installations.
 - e. Cross-reference record prints to corresponding photographic documentation.
 2. Content: Types of items requiring marking include, but are not limited to, the following:
 - a. Dimensional changes to Drawings.
 - b. Revisions to details shown on Drawings.
 - c. Depths of foundations.
 - d. Locations and depths of underground utilities.
 - e. Revisions to routing of piping and conduits.
 - f. Revisions to electrical circuitry.
 - g. Actual equipment locations.
 - h. Locations of concealed internal utilities.
 - i. Changes made by Change Order or Construction Change Directive.

- j. Changes made following Architect's/Engineer's written orders.
 - k. Details not on the original Contract Drawings.
 - l. Field records for variable and concealed conditions.
 - m. Record information on the Work that is shown only schematically.
 3. Mark the Contract Drawings and Shop Drawings completely and accurately. Use personnel proficient at recording graphic information in production of marked-up record prints.
 4. Mark record prints with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
 5. Mark important additional information that was either shown schematically or omitted from original Drawings.
 6. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.
- B. Record Digital Data Files: Immediately before inspection for Certificate of Substantial Completion, review marked-up record prints with Architect/Engineer and Construction Manager. When authorized, prepare a full set of corrected digital data files of the Contract Drawings, as follows:
1. Format: Same digital data software program, version, and operating system as for the original Contract Drawings.
 2. Incorporate changes and additional information previously marked on record prints. Delete, redraw, and add details and notations where applicable.
 3. Refer instances of uncertainty to Architect/Engineer through Construction Manager for resolution.
 4. Architect/Engineer will furnish Contractor with one set of digital data files of the Contract Drawings for use in recording information.
- C. Format: Identify and date each Record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location.
1. Record Prints: Organize record prints into manageable sets. Bind each set with durable paper cover sheets. Include identification on cover sheets.
 2. Format: Annotated PDF electronic file with comment function enabled.
 3. Record Digital Data Files: Organize digital data information into separate electronic files that correspond to each sheet of the Contract Drawings. Name each file with the sheet identification. Include identification in each digital data file.
 4. Identification: As follows:
 - a. Project name.
 - b. Date.
 - c. Designation "PROJECT RECORD DRAWINGS."
 - d. Name of Architect/Engineer.
 - e. Name of Contractor.

1.5 RECORD SPECIFICATIONS

- A. Preparation: Mark Specifications to indicate the actual product installation, where installation varies from that indicated in Specifications, addenda, and Contract modifications.

1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
2. Mark copy with the proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected.
3. Record the name of manufacturer, supplier, Installer, and other information necessary to provide a record of selections made.
4. Note related Change Orders and Record Drawings where applicable.

B. Format: Submit record specifications as annotated PDF electronic file.

1.6 RECORD PRODUCT DATA

A. Recording: Maintain one copy of each submittal during the construction period for Project Record Document purposes. Post changes and revisions to Project Record Documents as they occur; do not wait until end of Project.

B. Preparation: Mark Product Data to indicate the actual product installation where installation varies substantially from that indicated in Product Data submittal.

1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
2. Include significant changes in the product delivered to Project site and changes in manufacturer's written instructions for installation.
3. Note related Change Orders and Record Drawings where applicable.

C. Format: Submit Record Product Data as annotated PDF electronic file.

1. Include Record Product Data directory organized by Specification Section number and title, electronically linked to each item of Record Product Data.

1.7 MISCELLANEOUS RECORD SUBMITTALS

A. Assemble miscellaneous records required by other Specification Sections for miscellaneous record keeping and submittal in connection with actual performance of the Work. Bind or file miscellaneous records and identify each, ready for continued use and reference.

B. Format: Submit miscellaneous record submittals as PDF electronic file.

1. Include miscellaneous record submittals directory organized by Specification Section number and title, electronically linked to each item of miscellaneous record submittals.

1.8 MAINTENANCE OF RECORD DOCUMENTS

A. Maintenance of Record Documents: Store Record Documents in the field office apart from the Contract Documents used for construction. Do not use Project Record Documents for construction purposes. Maintain Record Documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to Project Record Documents for Architect's/Engineer's and Construction Manager's reference during normal working hours.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 017839

SECTION 051200 STRUCTURAL STEEL FRAMING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Grout.
- B. Related Requirements:
 - 1. Section 099600 "High-Performance Coatings" for surface-preparation and priming requirements.
- C. Products Furnished But Not Installed Under This Section:
 - 1. Anchor rods for columns.

1.3 DEFINITIONS

- A. Structural Steel: Elements of the structural frame indicated on Drawings and as described in AISC 303, "Code of Standard Practice for Steel Buildings and Bridges."

1.4 COORDINATION

- A. Coordinate installation of anchorage items to be embedded in or attached to other construction without delaying the Work. Provide setting diagrams, sheet metal templates, instructions, and directions for installation.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.

1.6 INFORMATIONAL SUBMITTALS

- A. Survey of existing conditions.
- B. Source quality-control reports.

1. Submit reports on completed tests and audits showing conformance or non-conformance with Contract Documents. Include visual and non-destructive testing of welds. Testing Agency shall send duplicate copies of tests and audits to Registered Design Professional and to Contractor.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified installer who participates in the AISC Quality Certification Program and is designated an AISC-Certified Erector, Category CSE.
- B. Shop-Painting Applicators: Qualified according to Endorsement P1SSPC-QP 3, "Standard Procedure for Evaluating Qualifications of Shop Painting Applicators."
- C. Comply with applicable provisions of the following specifications and documents:
 1. AISC 303, "Code of Standard Practice for Steel Buildings and Bridges."
 2. AISC 360, "Specifications for Structural Steel Buildings."
 3. RCSC's "Specification for Structural Joints Using High-Strength Bolts."
- D. Defective Material or Improper Workmanship
 1. Defective material or improper workmanship found at mill, shop, or project site, at any time, will be rejected regardless of previous inspections.
 - a. Remove rejected material or work and provide new materials or work that conforms to Contract Documents.
 - b. Alternatively, rejected material or work may be repaired. Submit written request as specified under Article "Submittals", but do not proceed until Registered Design Professional has approved repair and method. If submittal is not approved by Registered Design Professional, remove and rejected material or work and provide new materials.
 2. Provide removal and replacement, or repair, at no additional cost to Owner, and pay costs attributable to delay caused by rejection and corrective action.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Store materials to permit easy access for inspection and identification. Keep steel members off ground and spaced by using pallets, dunnage, or other supports and spacers. Protect steel members and packaged materials from corrosion and deterioration.
 1. Do not store materials on structure in a manner that might cause distortion, damage, or overload to members or supporting structures. Repair or replace damaged materials or structures as directed.
- B. Store fasteners in a protected place in sealed containers with manufacturer's labels intact.
 1. Fasteners may be repackaged provided Owner's testing and inspecting agency observes repackaging and seals containers.
 2. Clean and relubricate bolts and nuts that become dry or rusty before use.

3. Comply with manufacturers' written recommendations for cleaning and lubricating ASTM F 1852 fasteners and for retesting fasteners after lubrication.

PART 2 - PRODUCTS

2.1 BOLTS, CONNECTORS, AND ANCHORS

- A. High-Strength Bolts, Nuts, and Washers: ASTM A 325 (ASTM A 325M), Type 1, heavy-hex steel structural bolts; ASTM A 563, Grade C, (ASTM A 563M, Class 8S) heavy-hex carbon-steel nuts; and ASTM F 436 (ASTM F 436M), Type 1, hardened carbon-steel washers; all with plain finish or as indicated as galvanized.
- B. High-Strength Bolts, Nuts, and Washers: ASTM A 490 (ASTM A 490M), Type 1, heavy-hex steel structural bolts or tension-control, bolt-nut-washer assemblies with splined ends; ASTM A 563, Grade DH, (ASTM A 563M, Class 10S) heavy-hex carbon-steel nuts; and ASTM F 436 (ASTM F 436M), Type 1, hardened carbon-steel washers with plain finish or as indicated as galvanized.
- C. Unheaded Anchor Rods (Threaded, with Nut, Top and Bottom): ASTM F 1554, Grade 55, weldable.
 1. Configuration: Straight, or as shown on drawings.
 2. Nuts: ASTM A 563 (ASTM A 563M) heavy-hex carbon steel.
 3. Plate Washers: ASTM A 36/A 36M carbon steel.
 4. Washers: ASTM F 436 (ASTM F 436M), Type 1, hardened carbon steel.
 5. Finish: Plain or as indicated as galvanized.
- D. Threaded Rods: ASTM A 36/A 36M.
 1. Nuts: ASTM A 563 (ASTM A 563M) heavy-hex carbon steel.
 2. Washers: ASTM A 36/A 36M carbon steel.
 3. Finish: Plain or as indicated as galvanized.

2.2 GROUT

- A. Non-Shrink Grout:
 1. Pre-mixed, non-shrink, non-metallic grout consisting of aggregate base, portland cement sand, and with necessary plasticizers, densifiers and other control ingredients.
 2. Non-shrink grout shall conform to ASTM C1107, Grade B, when tested at a fluid consistency of 25 to 30 seconds per CRD 611/ASTM C939 at temperature extremes of 45 and 90 degree F and an extended working time of 30 minutes.
 3. Non-shrink grout shall have a minimum compressive strength of 7,500 pounds per square inch at 28 days.
 4. Non-shrink grout manufacturers:
 - a. Dayton Superior "Sure-Grip High Performance Grout"

- b. Euclid Chemical Company, Inc. "Hi-Flow Grout"
- c. L&M Construction Chemicals, Inc. "Crystex"
- d. Master Builders, Inc. "928"
- e. U.S. Grout Corporation "Five Star Grout"

2.3 FABRICATION

- A. Bolt Holes: Cut, drill, or punch standard bolt holes perpendicular to metal surfaces.
- B. Holes: Provide holes required for securing other work to structural steel and for other work to pass through steel members.
 - 1. Base plate Holes: Cut, drill, mechanically thermal cut, or punch holes perpendicular to steel surfaces.
- C. Bolting:
 - 1. Provide high strength bolted, slip critical or bearing type connections as shown. Bolt design values for bearing type connections shall assume threads in shear planes. Fully pre-tension bolts in bearing type connections. Do not use bolted and welded connections in combination. Make connections of main members per referenced AISC Standards. Use minimum of two bolts for bolted connections. Where type of connections are not shown or designated:
 - a. Fabricate shop connections for welding.
 - b. Fabricate field connections for high-strength bolting.
 - 2. Provide holes for bolted connections during shop fabrication. Do not burn or torch-cut holes. Drill, do not punch, holes in material 7/8-inch thick or greater.
 - 3. Do not use bolts less than 3/4 inch diameter, unless otherwise noted.

2.4 SHOP CONNECTIONS

- A. High-Strength Bolts: Shop install high-strength bolts according to RCSC's "Specification for Structural Joints Using High-Strength Bolts" for type of bolt and type of joint specified.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify, with certified steel erector present, elevations of concrete-bearing surfaces and locations of anchor rods, bearing plates, and other embedments for compliance with requirements.

1. Prepare a certified survey of existing conditions. Include bearing surfaces, anchor rods, bearing plates, and other embedments showing dimensions, locations, angles, and elevations.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Provide temporary shores, guys, braces, and other supports during erection to keep structural steel secure, plumb, and in alignment against temporary construction loads and loads equal in intensity to design loads. Remove temporary supports when permanent structural steel, connections, and bracing are in place unless otherwise indicated.

3.3 ERECTION

- A. Set structural steel accurately in locations and to elevations indicated and according to AISC 303 and AISC 360.
- B. Baseplates, Bearing Plates and Leveling Plates: Clean concrete-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.
 1. Set plates for structural members on wedges, shims, or setting nuts as required.
 2. Weld plate washers to top of baseplate.
 3. Snug-tighten anchor rods after supported members have been positioned and plumbed. Do not remove wedges or shims but, if protruding, cut off flush with edge of plate before packing with grout.
 4. Promptly pack grout solidly between bearing surfaces and plates so no voids remain. Neatly finish exposed surfaces; protect grout and allow to cure. Comply with manufacturer's written installation instructions for shrinkage-resistant grouts.
- C. Maintain erection tolerances of structural steel within AISC 303, "Code of Standard Practice for Steel Buildings and Bridges."
- D. Align and adjust various members that form part of complete frame or structure before permanently fastening. Before assembly, clean bearing surfaces and other surfaces that are in permanent contact with members. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.
 1. Level and plumb individual members of structure.
 2. Make allowances for difference between temperature at time of erection and mean temperature when structure is completed and in service.
- E. Splice members only where indicated.
- F. Do not use thermal cutting during erection unless approved by registered design professional. Finish thermally cut sections within smoothness limits in AWS D1.1/D1.1M. unless approved by Architect. Finish thermally cut sections within smoothness limits in AWS D1.1/D1.1M.
- G. Do not enlarge unfair holes in members by burning or using drift pins. Ream holes that must be enlarged to admit bolts.

3.4 FIELD CONNECTIONS

- A. High-Strength Bolts: Install high-strength bolts according to RCSC's "Specification for Structural Joints Using High-Strength" for type of bolt and type of joint specified.
 - 1. Joint Type: Snug tightened, Pre-tensioned, or as indicated on drawings.

3.5 FIELD QUALITY CONTROL

- A. Special Inspections: Owner will engage a qualified special inspector to perform the following special inspections:
 - 1. Verify structural-steel materials and inspect steel frame joint details.
 - 2. Verify weld materials and inspect welds.
 - 3. Verify connection materials and inspect high-strength bolted connections.
- B. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.
- C. Bolted Connections: Inspect and test bolted connections according to RCSC's "Specification for Structural Joints Using High-Strength Bolts."

3.6 REPAIRS AND PROTECTION

- A. Galvanized Surfaces: Clean areas where galvanizing is damaged or missing and repair galvanizing to comply with ASTM A 780/A 780M.

END OF SECTION 051200

SECTION 099600 - HIGH-PERFORMANCE COATINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes surface preparation and the application of high-performance coating system on the following substrates:
 - 1. Exterior Substrates:
 - a. Galvanized steel.
- B. Related Requirements:

1.3 DEFINITIONS

- A. MPI Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D523.
- B. MPI Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D523.
- C. MPI Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D523.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
 - 1. Include printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
 - 2. Indicate VOC content.
- B. Samples for Initial Selection: For each type of topcoat product indicated.
- C. Samples for Verification: For each type of coating system and each color and gloss of topcoat indicated.
 - 1. Submit Samples on rigid backing, 8 inches (200 mm) square.
 - 2. Apply coats on Samples in steps to show each coat required for system.
 - 3. Label each coat of each Sample.
 - 4. Label each Sample for location and application area.

- D. Product List: Cross-reference to coating system and locations of application areas. Use same designations indicated on Drawings and in schedules. Include color designations.

1.5 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Coatings: 5 percent, but not less than **1 gal. (3.8 L)** of each material and color applied.

1.6 QUALITY ASSURANCE

- A. Mockups: Apply mockups of each coating system indicated to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 1. Architect will select one surface to represent surfaces and conditions for application of each coating system.
 - a. Other Items: Architect will designate items or areas required.
 - 2. Final approval of color selections will be based on mockups.
 - a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Architect at no added cost to Owner.
 - 3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 - 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F (7 deg C).
 - 1. Maintain containers in clean condition, free of foreign materials and residue.
 - 2. Remove rags and waste from storage areas daily.

1.8 FIELD CONDITIONS

- A. Apply coatings only when temperature of surfaces to be coated and ambient air temperatures are between 50 and 95 deg F (10 and 35 deg C).
- B. Do not apply coatings when relative humidity exceeds 85 percent; at temperatures less than 5 deg F (3 deg C) above the dew point; or to damp or wet surfaces.
- C. Do not apply exterior coatings in snow, rain, fog, or mist.

2.1 MANUFACTURERS

- A. Products: Subject to compliance with requirements, provide products by one of the following, or approved equal.
1. Tnemec
 2. Ameron
 3. ICI Devoe
 4. PPG Architectural Finishes, Inc.
 5. Sherwin-Williams Company.

2.2 HIGH-PERFORMANCE COATINGS, GENERAL

- A. MPI Standards: Products shall comply with MPI standards indicated and shall be listed in its "MPI Approved Products Lists."
- B. Material Compatibility:
1. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 2. For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.
 3. Products shall be of same manufacturer for each coat in a coating system.
- C. Colors: Match STA's branding guideline samples.
- D. Coating for Galvanized Steel Substrates and Touchup :
1. System Type: Zinc-rich/Epoxy/Urethane
 2. Surface Prep for previously galvanized surfaces only: SSPC-SP 16 with 1.0-1.5 mil angular profile.
 3. Surface Prep for non- galvanized steel surfaces prior to receiving cold zinc repair: SSPC-SP-6/NACE 3.
 4. Field Repair Spot PrimerL Series 394 Perimprime DFT 2.5 mils minimum.
 5. Field Applied Intermediate Coat: Series 27WB Typoxy DFT 3.0-3.5mils.
 6. Field Applied Finish Coat: Series 1071V Fluornar DFT 2.5-5.0 mils. Gloss level 5.
- E. Factory Finishes(FF)- See manufacturer's literature for coating and follow the manufacturer's recommendations for touchup in the field.
- F. VOC Content: Products shall comply with VOC limits of authorities having jurisdiction.
1. Flat paints and coatings: 50 g/L.
 2. Non flat Paints and Coatings: 150 g/L.
 3. Primers, Sealers and Undercoaters: 200 g/L.
 4. Anti-Corrosive and Anti-Rust Paints Applied to Ferrous Metals: 250 g/L.

5. Zinc-Rich Industrial Maintenance Primers: 340 g/L.
6. Pre-Treatment Wash Primers: 420 g/L.

2.3 SOURCE QUALITY CONTROL

A. Testing of Coating Materials: Owner reserves the right to invoke the following procedure:

1. Owner will engage the services of a qualified testing agency to sample coating materials. Contractor will be notified in advance and may be present when samples are taken. If coating materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by testing agency.
2. Testing agency will perform tests for compliance with product requirements.
3. Owner may direct Contractor to stop applying coatings if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying coating materials from Project site, pay for testing, and recoat surfaces coated with rejected materials. Contractor will be required to remove rejected materials from previously coated surfaces if, on recoating with complying materials, the two coatings are incompatible.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.
- C. Proceed with coating application only after unsatisfactory conditions have been corrected.
 1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and coating systems indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
- C. Clean substrates of substances that could impair bond of coatings, including dust, dirt, oil, grease, and incompatible paints and encapsulants.

1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce coating systems indicated.
 2. Clean surfaces with pressurized water. Use pressure range of **100 to 600 psi (690 to 4140 kPa)**.
- D. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer but not less than the following:
1. SSPC-SP 6/NACE No. 3.
- E. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and areas where shop paint is abraded. Paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.
- F. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied coatings.

3.3 APPLICATION

- A. Apply high-performance coatings according to manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."
1. Use applicators and techniques suited for coating and substrate indicated.
 2. Coat surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, coat surfaces behind permanently fixed equipment or furniture with prime coat only.
 3. Coat backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
 4. Do not apply coatings over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
- B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of the same material are to be applied. Tint undercoats to match color of finish coat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- C. If undercoats or other conditions show through final coat, apply additional coats until cured film has a uniform coating finish, color, and appearance.
- D. Apply coatings to produce surface films without cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections. Produce sharp glass lines and color breaks.

3.4 FIELD QUALITY CONTROL

- A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test coatings for dry film thickness.
1. Contractor shall touch up and restore coated surfaces damaged by testing.

2. If test results show that dry film thickness of applied coating does not comply with coating manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with coating manufacturer's written recommendations.

3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing coating application, clean spattered surfaces. Remove spattered coatings by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from coating operation. Correct damage to work of other trades by cleaning, repairing, replacing, and recoating, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced coated surfaces.

END OF SECTION 099600

SECTION 107313.13 – HPT STATIONS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Furnishing and installing associated electrical, lighting, and communication systems.
2. Installation of related on platform components (aka amenities or appurtenances), generally, but not limited to,: Light poles, markers, trash and recycling receptacles, leaning rails, seating, and technology components.
3. Furnishing and installing unused hole plugs.
4. Furnishing and installing grout under base plates.
5. Furnishing and installing post installed anchors for platform components where not furnished by fabricator.

1.2 INFORMATIONAL SUBMITTALS

A. Evaluation Reports:

1. Research Reports: For anchors, from ICC-ES.

B. Sample warranties.

1.3 CLOSEOUT SUBMITTALS

A. Operations and Maintenance Data: for amenities.

1.4 WARRANTY

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- ##### A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 STATION AMENITIES

- ##### A. Certain marker panels and amenities receive a decorative vinyl wrap that is shop applied in Spokane and those panels and amenities require appropriate handling.

- B. Structural Framework: As indicated on Drawings by Future Systems Inc. STA's fabrication contractor. The framework is prefinished prefabricated HSS & WT sections as well as sheet steel and miscellaneous sections welded together to form separate components that must be erected in the field and bolted together by this contract. Some field drilling is required.
- C. Freestanding site furniture, amenities and appurtenances: As indicated on drawings.
- D. Electrical Power Service: As indicated on drawings. Furnish and install electrical and telecommunication systems as indicated on drawings.
- E. Lighting System(s): Furnish and install lighting systems as indicated on drawings. Note there are pedestrian lighting, marker logo lighting, and marker map case lighting systems.
- F. Communication System(s): Furnish and install communication system(s) as indicated on the drawings.
- G. Unused Hole Plugs: Furnish and install stainless steel Allen head set screws set in thread sealant.
- H. Shims: Furnish and install non-corrosive metal shims to plumb columns and posts and where indicated as required to set amenities plumb and level.
- I. Grout: Furnish and install non-metallic non-shrink grout per structural drawings under base plates after leveling.
- J. Thread Sealant: On all threaded fasteners and under fastener heads and nuts furnish and install Permatex High Performance Thread Sealant.
- K. Finish Touchup: Maintain shipping wrappings until removal is necessary. Should finish damage occur, immediately after cleaning and pretreating, apply manufacturer's three coat high performance finish consisting of prime coat, intermediate coat and thermosetting topcoat in accordance with the high-performance coating specification section. Repair finish so that the repair is not noticeable 6' away.
 - 1. Color and Gloss: Match exactly in coating manufacturer products, color and gloss of prefinished element that is damaged.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, including concrete; accurate placement of conduit stub-ins; and critical dimensions; and other conditions affecting performance of the Work.
- B. Examine roughing-in for electrical and communication system(s) to verify actual locations of connections before shelter installation. Install pull ropes in empty conduits.

- C. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Fill all unused threaded holes with stainless steel Allen head set screws using thread sealant.
- B. Set amenities plumb and aligned with full bearing on concrete bases. Shim with stainless steel shims. Grout under base plates.
- C. Connect to electrical power.
- D. After completing installation, inspect exposed finishes and repair damaged finishes.

END OF SECTION 107313

SECTION 260010 - GENERAL REQUIREMENTS FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to work of this section.

1.2 SUMMARY

- A. This Section includes general administrative and procedural requirements for electrical systems provided under Divisions 26 and 27. The following requirements are included in this Section to supplement the requirements specified in Division 1 Specification Sections.

1.3 QUALITY ASSURANCE

- A. Scope of Work: Furnish all labor, material, equipment, technical supervision, and incidental services required to complete, test and leave ready for operation the electrical systems as specified in the Divisions 26, 27 Specification sections and as indicated on Drawings.
- B. Codes and Standards: Perform all Work in accordance with applicable Federal, State and local codes rules, ordinances and regulations. The electrical and physical properties of all materials, and the design, performance characteristics, and methods of construction of all items of equipment, shall be in accordance with the latest issue of the various, applicable Standards, Rules and Regulations of NFPA, NECA, UL, and as follows unless otherwise indicated.
 - 1. A.N.S.I. - American National Standards Institute
 - 2. A.S.T.M. - American Society for Testing Materials
 - 3. I.C.E.A. - Insulated Cable Engineers Association
 - 4. I.E.E.E. - Institute of Electrical and Electronics Engineers
 - 5. N.E.C. - National Electrical Code
 - 6. N.E.C.A. - National Electrical Contractors Association
 - 7. N.E.M.A. - National Electrical Manufacturer's Association
 - 8. U.L. - Underwriters Laboratories, Inc.
 - 9. N.E.C.A. 1-2000, "Practices for Good Workmanship in Electrical Contracting (ANSI)."
- C. Where available products included in the work shall "Listed" or "Certified" by a nationally recognized testing laboratory. The listing or certification shall be acceptable to the authority having jurisdiction. The listing or certification shall indicate that the product's safety-related standards have been evaluated with regard to all reasonably foreseeable safety-related hazards, including fire, electrical shock and mechanical hazards.
- D. Notify the Architect/Engineer before submitting a proposal should any changes in Drawings or Specifications be required to conform to the above codes, rules or regulations. After entering into Contract, make all changes required to conform to above ordinances, rules and regulations without additional expense to the Owner.

- E. All materials shall be new unless indicated otherwise to reuse existing equipment.
- F. Source Limitations: All equipment of the same or similar systems shall be by the same manufacturer.
- G. Tests and Inspections: Perform all tests required by state, city, county and/or other agencies having jurisdiction. Provide all materials, equipment, etc., and labor required for tests. When installation of a system has been completed, the equipment shall be operated as directed by Owner's Representative. Replace faulty equipment and make required adjustments before final acceptance.
- H. Performance Requirements: Perform all work following practices for good workmanship, in accordance with the latest accepted standards and practices for the trades involved.
- I. Sequence and Schedule: Work so as to avoid interference with the work of other trades. Be responsible for removing and relocating any work which in the opinion of the Owner's Representatives causes interference.

1.4 CODES, PERMITS AND FEES

- A. Unless otherwise indicated, all required permits, licenses, inspections, approvals and fees for electrical work shall be secured and paid for by the Contractor.
- B. Prepare any detailed Drawings or diagrams which may be required by the governing authorities or authorities having jurisdiction. Where the Drawings and/or Specifications indicate materials or construction in excess of code requirements, the Drawings and/or Specifications shall govern.

1.5 DRAWINGS

- A. The Drawings show the location and general arrangement of equipment, electrical systems and related items. They shall be followed as closely as elements of the construction will permit.
- B. Examine the Drawings of other trades and verify the conditions governing the work on the job site. Arrange work accordingly, providing such fittings, conduit, junction boxes and accessories as may be required to meet such conditions.
- C. Deviations from the Drawings, with the exception of minor changes in routing and other such incidental changes that do not affect the functioning or serviceability of the systems, shall not be made without the written approval of the Architect/Engineer.
- D. The architectural and structural Drawings take precedence in all matters pertaining to the building structure, and electrical Drawings in all matters pertaining to electrical trades. Where there are conflicts or differences between the Drawings for the various trades, report such conflicts or differences to the Architect/Engineer for resolution.
- E. Drawings are not intended to be scaled for rough-in or to serve as shop drawings. Take all field measurements required to complete the Work.

1.6 MATERIAL AND EQUIPMENT MANUFACTURERS

- A. All items of equipment shall be furnished complete with all accessories normally supplied with the catalog items listed and all other accessories necessary for a complete and satisfactory operating system. All equipment and materials shall be new and shall be standard products of manufacturers regularly engaged in the production of electrical equipment and shall be of the manufacturer's latest design.
- B. If an approved manufacturer is other than the manufacturer used as the basis for design, the equipment or product provided;
 - 1. Shall be equal in size, quality, durability, appearance, capacity, and efficiency through all ranges of operation,
 - 2. Shall conform with arrangements and space limitations of the equipment shown on the plans and/or specified,
 - 3. Shall be compatible with the other components of the system,
 - 4. Shall be by the same manufacturer, and
 - 5. Shall comply with the requirements for Items Requiring Prior Approval specified in this section of the Specifications.
- C. All costs to make these items of equipment comply with these requirements including, but not limited to, electrical work, mechanical work, controls work, technology work and building alterations shall be included in the original Bid.

1.7 DEFERRED DESIGN

- A. The Contractor shall be responsible for the deferred design of the electrical work required to add new circuits to an existing power panel at Valley Transit Center. This deferred design shall include, but not be limited to:
 - 1. Performing a comprehensive assessment of the existing electrical system, including the condition and capacity of the existing power panels, conductors, and related infrastructure.
 - 2. Conducting necessary studies, such as load calculations and voltage drop analyses, to determine the feasibility and requirements for adding new circuits to the existing power panels.
 - 3. Designing the new circuits, including the selection of appropriate circuit breakers, conductors, conduits, and other components, in accordance with the National Electrical Code (NEC), Washington Administrative Code (WAC), and any applicable local codes and regulations.
 - 4. Designing two new 120V single-phase circuits: a. One circuit for two new displays, with a total load of 400W. b. One circuit for marker illumination, with a total load of 200W.
 - 5. Designing the integration of the new marker illumination circuit into the existing lighting control system. The Contractor shall field-verify the existing contactor panel and design the necessary modifications or additions to incorporate the new circuit.
 - 6. Preparing detailed design drawings, specifications, and calculations for the new circuits and lighting control system integration, and submitting them to the Engineer for review and approval prior to installation.
 - 7. Obtaining all necessary permits from the local authority having jurisdiction (AHJ) and arranging for required inspections.

- B. If required by the local AHJ for this specific work, the Contractor shall engage a licensed Professional Engineer in the State of Washington to perform the deferred design work and to stamp and sign the design drawings and calculations.
- C. The Contractor shall ensure that the new circuits and lighting control system integration are installed in accordance with the approved deferred design documents and all applicable codes and regulations.
- D. The deferred design documents shall include, at a minimum:
 - 1. Detailed design drawings showing the routing of conduits, the location of junction boxes and pull boxes, and the connection points to the existing electrical system.
 - 2. Single-line diagrams showing the new circuits, including wire and conduit sizes, circuit breakers, and grounding.
 - 3. Lighting control system integration schematics and wiring diagrams.
- E. The Contractor shall submit the deferred design documents to the Engineer for review and approval at least 30 days prior to the planned installation of the new circuits.
- F. The Contractor shall be responsible for all costs associated with the deferred design, including engineering fees, permitting fees, and any required testing or inspections.
- G. The Contractor shall coordinate the installation of the new circuits and lighting control system integration with all other trades and construction activities to avoid conflicts and delays.
- H. The Contractor shall test the new circuits and lighting control system integration in accordance with the manufacturer's recommendations and all applicable codes and regulations. The Contractor shall submit test reports to the Engineer for review and approval.

1.8 INSPECTION OF SITE

- A. Visit the site, examine and verify the conditions under which the Work must be conducted before submitting Proposal. The submitting of a Proposal implies that the Contractor has visited the site and understands the conditions under which the Work must be conducted. No additional charges will be allowed because of failure to make this examination or to include all materials and labor to complete the Work.

1.9 ITEMS REQUIRING PRIOR APPROVAL

- A. Bids shall be based upon manufactured equipment specified. All items that the Contractor proposes to use in the Work that are not specifically named in the Contract Documents must be submitted for review prior to bids. Such items must be submitted in compliance with Division 1 specifications. Requests for prior approval must be accompanied by complete catalog information, including but not limited to, model, size, accessories, complete electrical information and performance data in the form given in the equipment schedule on the drawings at stated design conditions. Where items are referred to by symbolic designations on the drawings, all requests for prior approval shall bear the same designations.
 - 1. Before submitting equipment to be considered for prior approval review and confirm that the equipment is equal in quality, durability, appearance, capacity and efficiency through

General Requirements for Electrical Systems

- all ranges of operation, shall fulfill the requirements of equipment arrangement and space limitations of the equipment shown on the plans and/or specified and shall be compatible with the other components of the system.
 - 2. All costs incurred to make equipment comply with other requirements, including providing maintenance, clearance, electrical, replacement of other components, and building alterations shall be included in the original bid.
 - 3. Work not specified shall be approved by the Architect/Engineer.
- B. Voluntary alternates may be submitted for consideration, with listed addition or deduction to the bid.

1.10 SHOP DRAWINGS/SUBMITTALS

- A. Submit project-specific submittals for review in compliance with Division 1.
- B. All shop Drawings shall be submitted in groupings of similar and/or related items (lighting fixtures, switchgear, etc.). Incomplete submittal groupings will be returned unchecked.
- C. If deviations (not substitutions) from Contract Documents are deemed necessary by the Contractor, details of such deviations, including changes in related portions of the project and the reasons therefore, shall be submitted with the submittal for approval.

Submit for approval shop drawings as specified in each individual electrical and communications Specifications section. Where items are referred to by symbolic designation on the Drawings and in the Specifications, all submittals shall bear a similar designation (light fixtures, wiring devices, etc.) as identified on the Drawings and in the Specifications and shall be submitted together and under the same cover, unless requested otherwise. Refer to other sections of the electrical Specifications for additional requirements.

1.11 COORDINATION DRAWINGS

- A. Submit project specific coordination drawings for review in compliance with Division 1 Specification Sections.

1.12 OPERATION AND MAINTENANCE INSTRUCTIONAL MANUALS

- A. Equipment Labels
 - 1. Provide an arc flash protection label for each piece of electrical equipment containing over 50 volts. Coordinate the labels with the Arc Flash Protection Study.
 - 2. Lockout Placards shall be provided on electrical equipment, when required by the Owner, that show energy source locations, means to lockout, verification procedures, and awareness items in accordance with Client standards.

1.13 RECORD DRAWINGS

- A. Submit record drawings in compliance with Division 1.
- B. Contractor shall submit to the Architect/Engineer, record drawings on electronic media or Mylar which have been neatly marked to represent as-built conditions for all new electrical work.
- C. The Contractor shall keep accurate note of all deviations from the construction documents and discrepancies in the underground concealed conditions and other items of construction on field drawings as they occur. The marked-up field documents shall be available for review by the Architect, Engineer and Owner at their request.

1.14 INSTRUCTION OF OWNER PERSONNEL

- A. Before final inspection, instruct Owner's designated personnel in operation, adjustment, and maintenance of electrical equipment and systems at agreed upon times. A **minimum of 4 hours** of formal instruction to Owner's personnel shall be provided for each equipment/system. Additional hours are specified in individual specification sections.
- B. Use operation and maintenance manuals as basis for instruction. Review contents of manual with personnel in detail to explain all aspects of operation and maintenance.
- C. In addition to individual equipment training provide overview of each electrical system. Utilize the as-built documents for this overview.
- D. Prepare and insert additional data in operation and maintenance manual when need for such data becomes apparent during instruction, or as requested by Owner.

1.15 WARRANTY

- A. Warranty: Comply with the requirements in Division 1 Specification Sections. Contractor shall warranty that the electrical installation is free from defects and agrees to replace or repair, to the Owner's satisfaction, any part of this electrical installation which becomes defective within a period of one year (unless specified otherwise in other Division 26, 27 or 28 sections) from the date of substantial completion following final acceptance, provided that such failure is due to defects in the equipment, material, workmanship or failure to follow the contract documents.
- B. Contractor shall be responsible for any and all temporary services including equipment and installation required to maintain operation as a result of any equipment failure or defect during warranty period.
- C. File with the Owner any and all warranties from the equipment manufacturers including the operating conditions and performance capacities they are based on.

1.16 USE OF EQUIPMENT

- A. The use of any equipment, or any part thereof for purposes other than testing even with the Owner's consent, shall not be construed to be an acceptance of the work on the part of the Owner, nor be construed to obligate the Owner in any way to accept improper work or defective materials.
- B. Do not use Owner's lamps for temporary lighting except as allowed and directed by the Owner. Equip lighting fixtures with new lamps when the project is turned over to the Owner.
- C. Equip lighting fixtures with new lamps at the end of construction, prior to Owner turnover.

1.17 COORDINATION

- A. Coordinate arrangement, mounting, and support of electrical equipment:
 - 1. To allow maximum possible headroom unless specific mounting heights that reduce headroom are indicated.
 - 2. To provide for ease of disconnecting the equipment with minimum interference to other installations.
 - 3. To allow right of way for piping and conduit installed at required slope.
 - 4. So connecting raceways, cables, wireways, cable trays, and busways will be clear of obstructions and of the working and access space of other equipment.
- B. Coordinate installation of required supporting devices and set sleeves in cast-in-place concrete, masonry walls, and other structural components as they are constructed.
- C. Coordinate location of access panels and doors for electrical items that are behind finished surfaces or otherwise concealed. Access doors and panels are specified in Division 8 Section "Access Doors and Frames."
- D. Coordinate electrical testing of electrical, mechanical, and architectural items, so equipment and systems that are functionally interdependent are tested to demonstrate successful interoperability.

PART 2 - EXECUTION

2.1 COMMON REQUIREMENTS FOR ELECTRICAL INSTALLATION

- A. Measure indicated mounting heights to bottom of unit for suspended items and to center of unit for wall-mounting items. If mounting heights are not indicated, install to provide maximum possible physical space for access after installation without adding a hazardous situation. Contact the Architect for direction.
- B. Measure indicated mounting heights to bottom of unit for suspended items and to center of unit for wall-mounting items.
- C. Headroom Maintenance: If mounting heights or other location criteria are not indicated, arrange and install components and equipment to provide maximum possible headroom consistent with these requirements.

- D. Equipment: Install to facilitate service, maintenance, and repair or replacement of components of both electrical equipment and other nearby installations. Connect in such a way as to facilitate future disconnecting with minimum interference with other items in the vicinity.
- E. Right of Way: Give to raceways and piping systems installed at a required slope.
- F. Unless otherwise approved by the Architect/Engineer provide rigid steel conduit:
 - 1. Sweeps from underground or through floor installations,
 - 2. Up to 10'-0" above the floor.
- G. All new raceways and cables shall be provided in a neat workman like manner meeting NECA standards and installed:
 - 1. Level and plumb except where elevation changes are required. Elevation changes shall be performed in the minimum space required or as approved by the Architect/Engineer.
 - 2. Square to building lines unless otherwise approved by the Architect/Engineer.

2.2 INSTALLATION OF EQUIPMENT

- A. Install all equipment in strict accordance with all directions and recommendations furnished by the manufacturer. Where such directions are in conflict with the Drawings and Specifications, report such conflicts to the Architect/Engineer for resolution.
- B. Prior to rough in, allow for flexibility, ten feet in any direction, in the final location of electrical system and wiring devices without additional cost to the Owner.
- C. Furnish concrete foundations and supports for electrical equipment and materials as required by codes, client standards and as shown or noted on the Drawings. When noted on the drawings provide and install concrete bases at heights as indicated on Architectural/Structural drawings, with leveling channels, where noted, for floor mounted equipment such as unit substations, transformers, switchgear, switchboards, distribution panels, motor control centers, etc. Coordinated the locations of leveling channels with the architectural trades.
- D. Painting
 - 1. In general, no painting is required by Electrical Trades other than touch up of factory finished electrical equipment.
 - 2. All factory finished electrical equipment shall be cleaned inside and outside at completion of the job. Equipment showing rust or scratches shall be thoroughly cleaned and sanded, prime coated and touched up with enamel of color to match original finish.

2.3 CUTTING, PATCHING AND DAMAGE TO OTHER WORK

- A. Refer to General Conditions for requirements.
- B. All cutting, patching and repair work shall be performed by the Contractor through approved, qualified subcontractors. Contractor shall include full cost of same in bid.

2.4 EXCAVATION AND BACKFILLING

- A. Provide all excavation, trenching, tunneling, dewatering and backfilling required for the electrical work. Coordinate the work with other excavating and backfilling in the same area.
- B. Where conduit is installed less than 2'6" below the surface of pavement, provide concrete encasement, 4" minimum coverage, all around or as shown on the electrical Drawings.
- C. Backfill all excavations, away from wall footings, with well-tamped granular material.
 - 1. Place granular backfill in layers not more than 8 inches in thickness, Compact each layer to 95 percent, Excavated material shall not be used.
 - 2. Outside building, first place granular material, as indicated above, up to 12 inches over top of pipe. Backfill remainder of excavation with unfrozen, excavated material in such a way to prevent settling.
- D. Backfill all excavations under wall footings with lean mix concrete up to underside of footings and extend concrete within excavation a minimum of four (4) feet each side of footing.
- E. Install Underground Warning Tape 12" above all underground duct bank and direct buried conduits or cables installations.

2.5 WORK IN PROXIMITY TO RAILROAD RIGHT-OF-WAY

- A. The contractor shall be aware that work will be performed in close proximity to an active Union Pacific railroad right-of-way (ROW) in Spokane, Washington, as noted on the Drawings.
- B. Although no work will occur within the ROW, the contractor shall take all necessary precautions to prevent encroachment onto the railroad ROW and to avoid interference with train traffic. The contractor shall plan and execute their work in a manner that ensures the safety of their personnel, the public, and the railway's operations.
- C. The contractor shall coordinate with Union Pacific to determine if any specific requirements, such as permits, approvals, insurance, or safety training, are necessary for work in proximity to the ROW. The contractor shall obtain and comply with any such requirements as directed by Union Pacific.
- D. If any work has the potential to affect rail operations, the contractor shall coordinate with and obtain approval from Union Pacific in advance.
- E. The contractor shall be responsible for any damages to the railroad infrastructure or disruption to rail operations caused by their activities. The contractor shall indemnify and hold harmless Union Pacific and the City of Spokane from any claims, damages, or liabilities arising from the contractor's work near the railroad ROW.

2.6 EQUIPMENT CONNECTIONS

- A. Make connections to equipment, motors, lighting fixtures, and other items included in the work in accordance with the approved Shop Drawings and rough-in measurements furnished by the

manufacturers of the particular equipment furnished. All additional connections not shown on the Drawings, but called out by the equipment manufacturer's shop Drawings shall be provided

- B. Provide electrical drops to equipment in conduit up to a certain elevation and supported at both ends. Exact location of process equipment electrical control panels shall be determined from manufacturers equipment drawings. The electrical drops shall be installed such that there is no interference with equipment that is in motion, such as cranes, jibs, gantries or robots.

2.7 CLEANING

- A. All debris shall be removed daily as required to maintain the work area in a neat, orderly condition.
- B. Final cleanup shall include, but not be limited to, washing of fixture lenses or louvers, switchboards, substations, motor control centers, panels, etc. Fixture reflectors and lenses or louvers shall be left with no water marks or cleaning streaks.

2.8 PROTECTION AND HANDLING OF EQUIPMENT AND MATERIALS

- A. Equipment and materials shall be protected from theft, injury or damage.
- B. Protect conduit openings with temporary plugs or caps.
- C. Provide adequate storage for all equipment and materials delivered to the job site. Location of the space will be designated by the Owner's representative or Architect/Engineer. Equipment set in place in unprotected areas must be provided with temporary protection.
- D. Provide protection of all energized equipment during installation and construction.

2.9 EARLY WORK

- A. Prior to substantial construction, the contractor shall locate and utilize existing underground conduits as shown on the electrical plan.
- B. The contractor shall verify that the existing conduits are in good condition and suitable for use. If any damage or defects are found, the contractor shall replace the affected conduit in kind.
- C. All work related to the use and replacement of existing underground conduits shall be performed in accordance with WSDOT Standard Specification 8-20.3(5).

2.10 EXTRA WORK

- A. For any extra electrical work which may be proposed, this Contractor shall furnish to the **Construction Manager**, an itemized breakdown of the estimated cost of the materials and labor required to complete this work. Proceed only after receiving a written order from the **Construction Manager** establishing the agreed price and describing the work to be done. Prior to any extra work which may be proposed, submit unit prices (same prices for increase/decrease of work) for all items.

2.11 DRAWINGS AND MEASUREMENTS

- A. These Specifications and accompanying Drawings are intended to describe and provide for finished work. They are intended to be cooperative, and what is called for by either shall be as binding as if called for by both. The Contractor understands that the work herein described shall be complete in every detail.
- B. The Drawings are not intended to be scaled for rough-in measurements or to serve as Shop Drawings. Field measurements necessary for ordering materials and fitting the installation to the building construction and arrangement are the Contractor's responsibility.

END OF SECTION 260010

SECTION 260526 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes materials and installation requirements for grounding and bonding systems and equipment.
- B. Related Requirements include but are not limited to:
 - 1. Division 00 - Procurement and Contracting Requirements.
 - 2. Division 01 - General Requirements.
 - 3. Section 26 00 10 – General Requirements for Electrical Systems.

1.3 ACTION SUBMITTALS

- A. Product Data: Provide submittal data for all products specified in PART 2 of this Specification Section except:
 - 1. Grounding clamps, terminals and connectors.
 - 2. Exothermic welding system.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTION

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Comply with UL 467 for grounding and bonding materials and equipment.

2.2 CONDUCTORS

- A. Copper Conductors:
 - 1. Bare conductors: Soft drawn stranded copper meeting ASTM B8.
 - 2. Insulated conductors: Color coded green, per Specification Section 26 05 19.
- B. Grounding Bus: Predrilled rectangular bars of annealed copper. Stand-off insulators for mounting must comply with UL 891 for use in switchboards, 600 V.
 - 1. Solid copper:

- a. 1/4 IN thick.
 - b. 2 or 4 IN wide.
 - c. 24 IN long minimum in main service entrance electrical rooms, 12 IN long elsewhere.
2. Predrilled grounding lug mounting holes.
3. Stainless steel or galvanized steel mounting brackets.
4. Insulated standoffs.

2.3 CONNECTORS

- A. Listed and labeled by an NRTL acceptable to authorities having jurisdiction for applications in which used and for specific types, sizes, and combinations of conductors and other items connected.
- B. Mechanical type:
 1. Standards: UL 467.
 2. High copper alloy content.
- C. Compression type for interior locations:
 1. Standards: UL 467.
 2. High copper alloy content.
 3. Non-reversible.
 4. Terminals for connection to bus bars shall have two bolt holes.
- D. Compression type suitable for direct burial in earth or concrete:
 1. Standards: UL 467, IEEE 837.
 2. High copper alloy content.
 3. Non-reversible.
 4. Factory filled with oxide inhibiting compound.

2.4 GROUNDING ELECTRODES

- A. Ground Rods:
 1. 3/4 IN x 10 FT.
 2. Copper-clad:
 - a. 10 mil minimum uniform coating of electrolytic copper molecularly bonded to a rigid steel core.
 - b. Corrosion resistant bond between the copper and steel.
 - c. Hard drawn for a scar-resistant surface.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General:
 1. Install products in accordance with manufacturer's instructions.

Grounding and Bonding for Electrical Systems

2. Size grounding conductors and bonding jumpers in accordance with NFPA 70, Article 250, except where larger sizes are indicated on the Drawings.
 3. Remove paint, rust, or other non-conducting material from contact surfaces before making ground connections.
 4. Where ground conductors pass through floor slabs or building walls provide nonmetallic sleeves.
 5. Do not splice grounding conductors except at ground rods.
 6. Install ground rods and grounding conductors in undisturbed, firm soil.
 - a. Provide excavation required for installation of ground rods and ground conductors.
 - b. Use driving studs or other suitable means to prevent damage to threaded ends of sectional rods.
 - c. Unless otherwise specified, connect conductors to ground rods with compressor type connectors or exothermic weld.
 - d. Provide sufficient slack in grounding conductor to prevent conductor breakage during backfill or due to ground movement.
 - e. Backfill excavation completely, thoroughly tamping to provide good contact between backfill materials and ground rods and conductors.
 7. Do not use exothermic welding if it will damage the structure the grounding conductor is being welded to.
- B. Raceway Bonding/Grounding:
1. Install equipment grounding conductor in all conduit.
 2. Where existing conduits are used for the installation of new circuits, an equipment grounding conductor shall be installed unless an existing equipment ground conductor, which is appropriate for the largest circuit, is already present in the existing raceway.
 3. Where parallel circuits are enclosed in a common conduit, the equipment-grounding conductor shall be sized by the largest overcurrent device serving any circuit contained within the conduit.
 4. All metallic conduit shall be installed so that it is electrically continuous.
 5. NFPA 70 required grounding bushings shall be of the insulating type.
 6. Provide double locknuts at all panels.
 7. Bond all conduit, at entrance and exit of equipment, to the equipment ground bus or lug.
 8. Provide bonding jumpers if conduits are installed in concentric knockouts.
 9. Make all metallic raceway fittings and grounding clamps tight to ensure equipment grounding system will operate continuously at ground potential to provide low impedance current path for proper operation of overcurrent devices during possible ground fault conditions.
- C. Equipment Grounding:
1. Install insulated equipment grounding conductors with all feeders and branch circuits.
 2. Install insulated equipment grounding conductors with the following items, in addition to those required by NFPA 70:
 - a. Feeders and branch circuits.
 - b. Lighting circuits.
 - c. Receptacle circuits.
 - d. Flexible raceway runs.
 - e. Armored and metal-clad cable runs.
- D. Grounding at the Service
1. Equipment grounding conductors and grounding electrode conductors must be connected to the ground bus. Install a main bonding jumper between the neutral and ground buses.

2. Bonding of the equipment grounding system and neutral at the service point shall be accomplished as required under the NEC. Grounding of the neutral shall be accomplished only at the service or at a separately derived system.

3.2 Grounding Underground Components

- A. Junction boxes with metallic lids shall have one 4-foot long tinned braided copper equipment bonding strap with full circle connector lugs installed from each metallic junction box lid(s) to the junction box frame. A non-insulated stranded copper conductor, minimum #8 AWG, with a full circle crimp on connector (crimped with a manufacturer recommended crimper) shall be connected to the junction box frame or frame bonding stud, the other end shall be crimped to the equipment bonding conductor, using a “C” type crimp connector. The equipment ground conductor shall not be cut or spliced except at junction boxes.

3.3 FIELD QUALITY CONTROL

A. Tests and Inspections:

1. After installing grounding system but before permanent electrical circuits have been energized, test for compliance with requirements.
2. Inspect physical and mechanical condition. Verify tightness of accessible, bolted, electrical connections with a calibrated torque wrench according to manufacturer's written instructions.
3. Test completed grounding system at each location where a maximum ground-resistance level is specified, at service disconnect enclosure grounding terminal. Make tests at ground rods before any conductors are connected.
 - a. Measure ground resistance no fewer than two full days after last trace of precipitation and without soil being moistened by any means other than natural drainage or seepage and without chemical treatment or other artificial means of reducing natural ground resistance.
 - b. Perform tests by fall-of-potential method according to IEEE 81.
4. Prepare dimensioned Drawings locating each test well, ground rod and ground-rod assembly, and other grounding electrodes. Identify each by letter in alphabetical order, and key to the record of tests and observations. Include the number of rods driven and their depth at each location, and include observations of weather and other phenomena that may affect test results. Describe measures taken to improve test results.

B. Grounding system will be considered defective if it does not pass tests and inspections.

C. Prepare test and inspection reports.

D. Report measured ground resistances that exceed the following values applicable locations:

1. Power and Lighting Equipment or System with Capacity of 500 kVA and Less: 5 ohms.
2. Power and Lighting Equipment or System with Capacity of 500 to 1000 kVA: 5 ohms.
3. Power and Lighting Equipment or System with Capacity More Than 1000 kVA: 5 ohms.
4. Power Distribution Units or Panelboards Serving Electronic Equipment: 25 ohms.

5. Substations and Pad-Mounted Equipment: 25 ohms.
 6. Manhole Grounds: 25 ohms.
- E. Excessive Ground Resistance: If resistance to ground exceeds specified values, notify Architect promptly and include recommendations to reduce ground resistance.

END OF SECTION 260526

SECTION 26 24 17 – Power Service Cabinets

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Provide a full enclosed modular cabinet with the following basic system components: main input conductor termination lugs, separation barriers between the utility side and the panel/controls side, service meter socket, main service disconnect breaker, output distribution panelboard, output branch circuit breakers, lighting control photocell, electronic programmable lighting control timeclock.
- B. The complete power distribution service enclosure shall be service disconnect rated.
- C. The service metering section shall meet all requirements of the local service provider utility.
- D. The complete power distribution service enclosure shall be preassembled and fully tested as a system prior to shipment.
- E. The electrical Service Provider is identified to be either Avista Utilities or Modern Electric Water Company depending on station location. See plans for Service Provider jurisdiction for each station.
- F. Related Sections include:
 - 1. Section 26 00 10 General Requirements for Electrical Systems.
 - 2. Section 26 05 26 Grounding and Bonding for Electrical Systems.

1.3 SUBMITTALS

- A. Shop drawings.
- B. Product data.
 - 1. Detailed component material list.
 - 2. Voltage rating, amperage rating, bussing material, fault rating, wiring lugs capacity, mounting method, physical size, exterior finish and options.
 - 3. Individual circuit breaker product data sheets.
 - 4. Panel schedules: the panel schedules shall indicate circuit breakers in the same orientation as the construction documents.

2.1 MATERIALS

- A. Branch Circuit Panels: Bolt-on circuit breaker type fitted with metallic flush lift latches and locks keyed alike. Deliver all panel keys to the Owner at completion of the project.
- B. Short Circuit Current Rating (SCCR): Fully rated at a value greater than the maximum available short circuit current that can be expected at the panelboard location in the electrical system. Series rating is not permitted.
- C. Cabinets:
 - 1. Cabinet rough-in boxes shall be code gauge steel, with dead front covers.
 - 2. Cabinets shall have flush doors with concealed hinges and mounting clamps and a lockable operators handle.
 - 3. Type 3R enclosure constructed of 12-gauge corrosion resistant zinc-coated steel, or equivalent approved material.
 - 4. Interior panels shall have metal face trims with no sharp edges or corners. Surface panel cabinets shall be fabricated without knockouts and finished to match face trim.
 - 5. All panels shall have hinged trim fronts with captive screws that provides full access to wiring compartment.
- D. Wiring Gutters: A minimum of 4-inches wide except where feeder conductors enter where a minimum of 6-inches clear shall be provided. Feeder conductors to enter directly in line with lug terminals wherever practicable. Provide separate feeder studs for each feeder conductor compression lug.
- E. Bussing: Provide one continuous bus bar per phase. Provide copper or electrical grade aluminum alloy sized as indicated on the drawings and in accordance with UL standards to limit temperature rise on any current carrying part to a maximum of 65°C above an ambient temperature of 40°C maximum. Full size insulated neutral bars shall be included for panels indicated to have a neutral. Bus bar taps for panels with single pole branches shall be arranged for sequence phasing of the branch circuit devices.
- F. Ground Bus: Provide in each panelboard. Ground bus shall:
 - 1. Have the same rating as the neutral bus.
 - 2. Contain a ground conductor terminal for each available circuit in the panelboard.
 - 3. Have terminals sized for the branch circuit equipment grounding conductors.
- G. Interiors: Dead front shield covering the bus, and bus connectors, with all mounting hardware and bussing for all spaces indicated for future installation of devices. Interior trim shall be of dead front construction. All unused mounting spaces shall be covered with preformed knockouts.
- H. Main Circuit Breaker: Where indicated, equip panels indicated with main circuit breakers sized as scheduled where main circuit breaker size is not indicated, ampere rating shall match feeder ampacity or panelboard rating, whichever is less.

1. Molded case, thermal magnetic bolt-on type and sized as indicated on the Drawings. Circuit breaker shall have an overcenter, trip-free, toggle mechanism that shall provide quick-make, quick-break contact action. Indicate open, closed, or tripped by handle position, with common internal trip crossbar to provide simultaneous tripping for all poles.
 2. Circuit breakers shall have a permanent trip action with thermal and magnetic trip elements in each pole. Each thermal element shall be factory calibrated to operate in a 40°C ambient environment. Thermal elements shall be ambient compensating above 40°C.
 3. Provide with circuit breaker lock-off device to provide capability to be locked in the open position.
- I. Branch Circuit Breakers:
1. Breakers shall be provided with amperage rating, and number of poles as indicated in the Panelboard Schedules.
 2. Circuit breakers shall be bolt-on type.
 3. Circuit breakers shall have an overcenter toggle mechanism that shall provide quick-make, quick-break contact action. Circuit breakers shall have thermal and magnetic trip elements in each pole. Two and three pole circuit breakers shall have an internal common trip crossbar to provide simultaneous tripping.
 4. The exposed faceplates of all circuit breakers shall be flush with one another.
 5. Breakers shall have short circuit capacity rating to withstand the maximum short circuit duty that can be expected at the breaker location in the electrical system. Minimum short circuit rating for any circuit breaker: 10,000 A.I.C. for 120V and 208V breakers, 14,000 A.I.C. for 240V, 277V and 480V breakers.
 6. Circuit breakers used for switching duty shall be UL listed for that purpose and marked "SWD".
 7. Circuit breakers serving heat trace circuits shall be ground fault interrupter (GFI) type with 30 ma ground fault trip rating.
 8. Provide circuit breaker lock-off device for each branch circuit breaker
- J. Provide Ground Fault Circuit Interrupter (GFCI) breakers as shown on the Drawings or as required by Code.
- K. Provide auxiliary switches, photocell, electronic timer as shown on the Drawings.
- L. Cabinet Foundation
1. The cabinets shall be mounted on a foundation as shown on the plans to elevate the cabinet and prevent the ingress of water.
 2. All conduits entering the foundation shall be stubbed up 1.5 inches above the top of the foundation.

2.2 IDENTIFICATION

- A. Display an arc flash and shock hazard warning label that meets the requirements of FPA 70E Article 130.5(H) and ANSI Z535, with the following information:
1. Nominal System Voltage

2. Arc Flash Boundary (in inches)
3. Available Incident Energy (in cal/cm²)
4. Working Distance (in inches)
5. Minimum arc rating of clothing (in cal/cm²)
6. Shock Hazard Limited Approach Distance (in inches)
7. Shock Hazard Restricted Approach Distance (in inches)
8. Date of calculation.
 - a. The top of the tag shall normally include the word “WARNING” in black text on an orange background. For systems over 600 volts or where the incident energy exceeds 40 cal/cm², the word “DANGER” shall be used with a red background instead.
- B. Branch circuit breakers shall be identified with individual circuit numbers adjacent to each breaker with a typewritten card to identify the load controlled by that breaker.
- C. A typed index of all circuits shall be mounted on the cabinet door. Each index shall show an entire panel section without folding. Index holders shall have metal returns on the sides and bottom. A schematic of the main panel, any subpanels, circuits, and control circuits shall be provided. The schematic shall be plastic coated and secured in a metal holder.

PART 3 - EXECUTION

3.1 CONSTRUCTION

- A. Install Electrical Service Cabinets in accordance with manufacturer’s recommendations.
- B. Install Electrical Service Cabinets plumb and level, located as shown on the Drawings.
- C. Provide a concrete mounting pad for the power service enclosure and anchor the service pedestal to the concrete pad. Pad shall be shared with the Communication Cabinet where adjacent to each other and installed as part of the same Project, see Plans for locations.
- D. Coordinate with the serving power utility for incoming service conduit size and power source, provide in accordance with the utility requirements.

END OF SECTION

SECTION 265619 - EXTERIOR LIGHTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Marker Luminaires:
 - a. Exterior solid-state luminaires that are designed for and exclusively use LED lamp technology.
 - b. LED driver/power supply.
 - c. Dimming control.
 - d. Luminaire supports.
 - 2. Map Case Luminaires:
 - a. Exterior solid-state luminaires that are designed for and exclusively use LED lamp technology.
 - b. LED driver/power supply.
 - c. Dimming control.
 - d. Aluminum extrusion housing with diffuser.
 - e. Luminaire supports.
 - 3. Pedestrian Light Pole Luminaires:
 - a. Exterior solid-state luminaires that are designed for and exclusively use LED lamp technology.
 - b. Luminaire supports.
 - 4. Outdoor Rated Dimmer Switches
 - a. Compatible with power supply for each luminaire.
- B. Related Requirements:
 - 1. Section 260010 General Requirements for Electrical Systems
 - 2. Section 260526 Grounding and Bonding for Electrical Systems.

1.3 DEFINITIONS

- A. CCT: Correlated color temperature.
- B. CRI: Color rendering index.
- C. Fixture: See "Luminaire."
- D. IP: International Protection or Ingress Protection Rating.

- E. Lumen: Measured output of lamp and luminaire, or both.
- F. Luminaire: Complete lighting unit, including lamp, reflector, and housing.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of luminaire.
 - 1. Include data on features, accessories, and finishes.
 - 2. Include physical description and dimensions of luminaire.
 - 3. Lamps, include life, output (lumens, CCT, and CRI), and energy-efficiency data.
 - 4. Photometric data and adjustment factors based on laboratory tests, complying with IES Lighting Measurements Testing and Calculation Guides, of each luminaire type.
 - 5. Wiring diagrams for power, control, and signal wiring.
 - 6. Photoelectric relays.
 - 7. Means of attaching luminaires to supports and indication that the attachment is suitable for components involved.
- B. Product Data: Outdoor Rated Dimmer Switches
 - 1. Submit manufacturer's product data for each type of outdoor-rated dimmer switch and associated mounting hardware.
 - 2. Data shall include electrical ratings, materials, and dimensions.
- C. Shop Drawings: For nonstandard or custom luminaires.
 - 1. Include plans, elevations, sections, and mounting and attachment details.
 - 2. Include details of luminaire assemblies. Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
 - 3. Include diagrams for mounting details, power, signal, and control wiring.
- D. Shop Drawings: For Outdoor Rated Dimmer Switches
 - 1. Submit shop drawings indicating the layout and location of all dimmer switches.
 - 2. Include wiring connections and mounting details.

1.5 INFORMATIONAL SUBMITTALS

1.6 QUALITY ASSURANCE

- A. Provide luminaires from a single manufacturer for each luminaire type.

1.7 WARRANTY

- A. Warranty: Manufacturer and Installer agree to repair or replace components of luminaires that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: 5 year(s) from date of Substantial Completion.

2.1 LUMINAIRE REQUIREMENTS – GENERAL

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. UL Compliance: Comply with UL 1598 and listed for wet location.
- C. CCT of 4000K.
- D. L70 lamp life of at least 50,000 hours.
- E. Lamps dimmable from 100 percent to 0 percent of maximum light output.

2.2 LUMINAIRE TYPES

A. Marker Luminaire:

- 1. Provide CPD Lighting CLS System Specialty LED or approved equal.
- 2. Shape: Segmented Strips connected in lattice configuration
- 3. Dimensions: See Drawings.
- 4. Luminous Efficiency: 100 lm/W minimum
- 5. Electrical: 12/24 VDC
- 6. Provide manufacturer recommended LED driver and dimmer.
- 7. Color Temperature: 6000 K
- 8. Housings:
 - a. Extruded-aluminum housing and heat sink.
 - b. RAL 9006 anodized finish.
- 9. Operating Temperature: -20° - 100° F
- 10. Rated for use in wet locations.

B. Map Case Luminaire:

- 1. Provide QTRAN LED 3.0 DMP SLIM or approved equal.
- 2. Shape: Strip
- 3. Dimensions: Sized to cover all four sides of the map case. See FSI Fabrication drawings.
 - a. Max Height: 0.12"
- 4. Lumens/ft: 300 minimum
- 5. Color Temperature: 4000 K
- 6. Provide manufacturer recommended LED driver and dimmer.
- 7. Housings:
 - a. QTRAN LED SLIM Aluminum Extrusion
 - b. End feed type
 - c. Diffused lens
- 8. Operating Temperature: -40° - 122° F
- 9. IP54 rating or greater.

C. Pedestrian Light Pole Luminaire:

1. Provide Selux ACL-R2-S1/2-L700-40-SP-DM-120V or approved equal.
 2. Mounting Type: Tenon
 3. Distribution: Type II.
 4. Color Temperature: 4000 K
 5. Input Voltage: 120 VAC
 6. Finish Color: Match light post finish - SW 7652 Mineral Deposit. Gloss level 4 satin finish. Provide paint sample to STA for verification prior to ordering.
 7. Provide manufacturer recommended dimmer.
- D. Outdoor Rated Dimmer Switches
1. Provide one dimmer switch for each type of luminaire.
 2. Dimming control protocol shall be compatible with luminaire LED driver or power supply.
 3. Listed for outdoor use.
 4. If no outdoor-rated dimmer switches are available in the market that meets all other requirements, indoor-rated dimmer switches may be used, provided they are enclosed in an outdoor-rated cover that provides protection from the elements. Submit documentation from (3) three different lighting suppliers indicating an equivalent outdoor rated model is not available.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Examine roughing-in for luminaire electrical conduit to verify actual locations of conduit connections before luminaire installation.
- C. Examine Marker structure and pedestrian light poles for suitable conditions where luminaires will be installed.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 GENERAL INSTALLATION REQUIREMENTS

- A. Comply with NECA 1.
- B. Use fastening methods and materials selected to resist seismic forces defined for the application and approved by manufacturer.
- C. Install lamps in each luminaire.
- D. Fasten luminaire to structural support.
- E. Supports:
 1. Sized and rated for luminaire weight.

2. Able to maintain luminaire position after cleaning and relamping.
3. Support luminaires without causing deflection of finished surface.
4. Luminaire-mounting devices shall be capable of supporting a horizontal force of 100 percent of luminaire weight and a vertical force of 400 percent of luminaire weight.

- F. Wiring Method: Install cables in raceways. Conceal raceways and cables.
- G. Coordinate layout and installation of luminaires with other construction.
- H. Adjust luminaires that require field adjustment or aiming.
- I. Install outdoor rated dimmer switches in accordance with the manufacturer's instructions.

3.3 CORROSION PREVENTION

- A. Aluminum: Do not use in contact with earth or concrete. When in direct contact with a dissimilar metal, protect aluminum by insulating fittings or treatment.

3.4 IDENTIFICATION

- A. Identify system components, wiring, cabling, and terminals.

3.5 FIELD QUALITY CONTROL

- A. Inspect each installed luminaire for damage. Replace damaged luminaires and components.
- B. Perform the following tests and inspections:
 1. Operational Test: After installing luminaires, switches, and accessories, and after electrical circuitry has been energized, test units to confirm proper operation.
 2. Verify operation of photoelectric controls.
- C. Illumination Tests:
 1. Measure light intensities at night. Use photometers with calibration referenced to NIST standards. Comply with the following IES testing guide(s):
 - a. IES LM-5.
 - b. IES LM-50.
 - c. IES LM-52.
 - d. IES LM-64.
 - e. IES LM-72.
 2. Operational Test: After installing luminaires, switches, and accessories, and after electrical circuitry has been energized, test units to confirm proper operation.
- D. Luminaire will be considered defective if it does not pass tests and inspections.

- E. Prepare a written report of tests, inspections, observations, and verifications indicating and interpreting results. If adjustments are made to lighting system, retest to demonstrate compliance with standards.

END OF SECTION 265619

SECTION 27 11 16 – Communication Cabinet

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes: all materials and equipment necessary to provide Communication Cabinets. This shall include but not limited to, cabinets, power distribution assembly, cabling, mounting hardware, foundation, and other necessary accessories.

1.3 SUBMITTALS

- A. Shop drawings.
- B. Product data.
 - 1. Detailed component material list.
 - 2. Cabinet products specification sheets

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cabinet Construction
 - 1. The enclosure shall be a commercially available pad-mountable model that meets the following requirements:
 - a. Type 336, nominal dimensions 46" H x 24" W x 20" D
 - b. NEMA 3R rating
 - c. Standard 19-inch EIA rack of minimum 22RU
 - d. Construction shall be of 0.073-inch minimum thickness series 300 stainless steel or 0.125 minimum thickness 5052 H32 ASTM B209 alloy aluminum. The stainless steel shall be annealed or one-quarter-hardness complying with ASTM A666 stainless steel sheet. Cabinets may be finished inside with an approved finish coat of exterior white enamel. If no other coating is specified in the Contract Provisions the exterior of all cabinets shall be bare metal.
 - e. Cabinets shall have a single lockable front door
 - f. A spring-loaded construction core lock capable of accepting a Best 6-pin core shall be installed on the door accessing equipment. A 6-pin green construction core shall be

installed in each core lock. On completion, two master keys for each cabinet shall be delivered to the Owner.

B. Cabinet Ventilation and Heating

1. A 12-inch-wide x 16-inch-high x 1-inch-thick disposable paper filter element shall be provided. The filter shall remain flush against the door. No incoming air shall bypass the filter element.
2. The cabinet shall be equipped with an electric strip heater with a rating of 100 watts and 120 VAC, and a ventilation fan.
3. The fan and heater strip shall be controlled by a high-low adjustable thermostat that can be set to ensure that the cabinet interior temperature remains between 60°F and 125°F.

C. Cabinet Accessories

1. A shatterproof LED interior cabinet lights with driver shall be furnished and mounted at the top of the cabinet interior. A door switch shall automatically turn on the lights when the door is opened. There shall be two light strips for each cabinet. Lighting shall be ceiling mounted. Lighting shall not interfere with the proper operation of any other ceiling mounted equipment.
2. One shelf that attached to the front rails of the rack shall be provided. The shelf shall be fabricated from aluminum and contain a roll-out, flip-top drawer for storage of wiring diagrams and manuals.
3. The cabinet shall be equipped with a power distribution panel mounted in a standard EIA 19-inch rack utilizing no more than 4 rack units. The following devices shall be provided with the power distribution panel:
 - a. One duplex GFCI 15A 120VAC receptacle on the front
 - b. Four duplex NEMA 5-15R receptacles on the rear
 - c. Terminal blocks
 - d. Neutral bus
 - e. Ground bus
 - f. Surge suppresser and filter unit 120VAC

D. Cabinet Foundation

1. The cabinets shall be mounted on a foundation as shown on the plans to elevate the cabinet and prevent the ingress of water.
2. All conduits entering the foundation shall be stubbed up 1.5 inches above the top of the foundation.

E. Din-Rail Mounts

1. DIN-rail mounts shall be provided for the mounting of equipment within the enclosure as necessary.

PART 3 - EXECUTION

3.1 CONSTRUCTION

- A. The Communication Cabinet shall be installed in accordance with the manufacturer's recommendations. DIN-rail mounts are to be installed as necessary to accommodate all equipment as shown in the plans.
- B. The cabinets shall be securely mounted to the foundation with suitable hardware and the mounting installation shall be sealed against water ingress.

END OF SECTION

SECTION 271550 - COMMUNICATIONS CABLING AND SURGE PROTECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. CAT6 cabling, outdoor rated.
 - 2. CAT6 Surge Protection System.

1.3 DEFINITIONS

- A. POE: Power over Ethernet
- B. RU: Rack Unit

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Test cables upon receipt at Project site.

PART 2 - PRODUCTS

2.1 CAT6 CABLE

- A. The specifications for the outdoor rated Cat 6 Cable shall meet the following specifications:
 - 1. Outside Plant Cable, Suitable for Duct Installation
 - 2. Bare (aka pure) Copper Conductors
 - 3. 23 AWG
 - 4. Solid conductor
 - 5. TIA/EIA-568.C.2, ISO/IEC 11801, ICEA S-90-661-1997
 - 6. All complete cables (including cable and connectors) shall be Cat 6 certified and tested. The CONTRACTOR shall test and certify each Cat 6 Cable (excluding patch cables 10 feet or less).

B. CAT6 PATCH CORD

1. Shall be pre-made CAT6 rated
2. Shall be sized to a suitable length to provide a connection between the Surge Protection System and the Ethernet Switch, or for other network connections within the communications cabinet.

2.2 CAT6 SURGE PROTECTION

A. Provide rack mounted surge protection for all Ethernet cables entering the Communications Cabinets:

1. CAT6 certification
2. Compatible with POE 802.3at Type 2 or higher
3. Maximum size: 1 RU
4. Minimum 8 RJ45 ports
5. Rugged
6. UL 497B

PART 3 - EXECUTION

3.1 CONSTRUCTION REQUIREMENTS

- A. All cabling shall be cut to proper length and appropriately terminated (via RJ-45 connector or otherwise) prior to assembly. Cables shall be neatly bundled and fixed in place with Velcro straps or tiewraps. Cables shall be installed as shown in plans and per manufacturers recommended procedure. Cables are to be labeled with the device names shown on Plans.

3.2 IDENTIFICATION

A. Cable and Wire Identification:

1. Label each cable within 4 inches (100 mm) of each termination and tap, where it is accessible in a cabinet or junction or outlet box, and elsewhere as indicated.

- B. Labels shall be preprinted or computer-printed type with printing area and font color that contrasts with cable jacket color but still complies with requirements in TIA/EIA-606-A.

3.3 TESTING

A. Testing of Cables

1. All network cables shall be tested prior to the use to ensure connectivity and proper termination on all connectors.

END OF SECTION 271500

SECTION 275004 – TECHNOLOGY COMPONENT INSTALLATION AND TESTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. See Section 014000 “Quality Requirements” for Quality Control Plan requirements, which apply to the technology components identified in this Section.

1.2 SUMMARY

- A. General Requirements:
- B. This work shall consist of transporting, installing, and coordinating with STA to install and test the technology for each corridor/installation site.
- C. STA shall furnish the following technology components, to be installed by the Contractor at locations indicated on the Drawings:
 - 1. Real-Time Passenger Information Displays;
 - 2. Customer Information Displays;
- D. Coordinate installation of all technology components with station amenities installation and all other trades to provide a total system that is neat and orderly in appearance.
- E. Contractor is responsible for furnishing and installing any additional components, mounting hardware, connectors, wiring and accessories to provide a total working system.

1.3 DEFINITIONS

- A. RTPID: Real-Time Passenger Information Display. Refers to the displays that are mounted on the pedestrian light poles.
- B. CID: Customer Information Display. Refers to the displays that are mounted within the Marker.
- C. CCTV: Closed-Circuit Television. Refers to the security camera that is mounted within the Valley Transit Center canopy structure.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: Electrical and electronic drawings shall be supplied to show engineering changes made to any component or module up to the end of the warranty period of the system supplied.

- C. Installation Design Documentation: The Contractor shall submit Installation Design Documentation for any system that deviates from the installation manual included with the technology component.
 - 1. The Contractor shall submit Installation Design Documentation (IDD) for Owner approval before undertaking any installations. Contractor shall install all equipment per the approved IDD.
 - a. The IDD shall provide adequately detailed text, drawings, illustrations, and images to allow a technician's quality installation without further training or installation instructions from the vendors of the individual equipment components.
 - b. As applicable, the IDD shall include details on:
 - 1) Equipment installation locations/mounting;
 - 2) Routing, conductors, color-coding, labeling, and connectors for power, communications, and vehicle ground circuits;
 - 3) Connections with, any required modifications to, and restoration of existing infrastructure;
 - 4) Any deviations from off-the-shelf component installation instructions;
 - 5) Work area and equipment storage requirements;
 - 6) Pre- and post-installation checklists for tests that the installers shall perform; and
 - 7) Supervision and quality assurance procedures.

PART 2 - PRODUCTS

2.1 REAL-TIME PASSENGER INFORMATION DISPLAY

- A. To be furnished by Owner and provided to Contractor.

2.2 CUSTOMER INFORMATION DISPLAY

- A. To be furnished by Owner and provided to Contractor.

2.3 CCTV CAMERAS

- A. To be furnished and installed by Owner.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. The Contractor shall verify all existing conditions in the field and provide any necessary equipment required to install amenities at installation sites where existing conditions deviate from the typical as-built conditions.
- B. Prepare written report, endorsed by Owner, listing conditions detrimental to performance of the Work.

3.2 INSTALLATION - GENERAL

- A. The Contractor shall be responsible for their own performance and all subcontractors' performance and safety.
- B. Installations shall be performed in accordance with all Federal, State, and local laws and regulations.
- C. All subcontractors shall be properly trained by the Contractor.
 - 1. Owner reserves the right to require the Contractor to immediately replace any installer at any time due to lack of qualifications, unsafe practices, poor quality control or any other factor that may impact the quality and speed of the installation process.
- D. Equipment shall be installed in a neat and professional manner, in accordance with good practice, by competent technicians or mechanics.
- E. For items furnished by the Contractor, the Contractor shall be responsible for all work and expenses relating to the design, manufacture, and delivery of the equipment at each location specified by Owner.
- F. The Contractor shall ensure that all Technology Components are delivered to the installation site(s).
- G. The Contractor shall provide suitable secure storage facilities for all equipment prior to installation. Technology components shall not be stored at the project site unless properly secured and approved by STA.
- H. The Contractor shall be responsible for the security of equipment prior to installation.
- I. As necessary, the Contractor shall be responsible for removing any existing equipment, connectors, and cables before installing the new equipment.
- J. Installation site shall be left clean and free from rubbish and debris.
 - 1. All material associated with site preparation, unpacking of shipping materials, and installation of new equipment related to this project shall be removed from the premises by the Contractor and properly disposed.
 - 2. All dumpsters, and related containers for the use of proper disposal, are the responsibility of the Contractor.
 - 3. Removal of rubbish and debris shall be performed by the Contractor daily.
- K. The Contractor shall adhere to the installation manuals for each technology component, to be provided by STA.
- L. Electrical and electronic drawings shall be supplied to show engineering changes made to any component or module up to the end of the warranty period of the system supplied.
- M. The Contractor shall install each technology component as shown in the Drawings in accordance with the procedures outlined in each installation manual.
- N. The Contractor shall be responsible for protecting all existing conditions, including existing sidewalks, platforms, and other site features.

1. Any damage to STA, City of Spokane, City of Spokane Valley property or equipment due to the mistake or negligence of the Contractor during installation shall be corrected at the Contractor's expense.
 - O. After installations, the Contractor shall be responsible for restoring the condition of any affected existing infrastructure at the installation sites to their pre-installation condition.
 1. Any damage to the existing conditions shall be repaired by the Contractor at no additional cost to Owner.
 - P. The Contractor shall provide theft resistant mounting hardware for all accessible points of connections. Coordinate with STA on type of theft resistant mounting hardware required.
- 3.3 INSTALLATION – REAL-TIME PASSENGER INFORMATION AND CUSTOMER INFORMATION DISPLAYS
- A. At each Station as shown on the Plans, the Contractor shall perform the following:
 1. Cabling from the power cabinet shall be pulled from the power cabinet shown on the plans through the conduit and pedestrian light poles or HPT marker to the RTPID and/or CID, respectively.
 2. Cabling from the Surge Protection System within the communications cabinet shall be pulled through the conduit and pedestrian light poles or HPT marker to the RTPID and/or CID, respectively and terminated in the appropriate connector for connection to the device.
 3. Power and communications cabling shall be wired to the RTPID and/or CID.
 - B. Real-Time Passenger Information Displays: At each station location as indicated in the Drawings, the Real-Time Passenger Information Displays shall be installed in accordance with the following requirements:
 1. Real-Time Passenger Information Displays shall be mounted to poles using manufacturer supplied or recommended hardware.
 2. All power cabling shall be pulled from the power cabinet indicated in the plans through the conduit and pedestrian light poles to the display or housed in a liquid-tight flex conduit, and not be externally exposed.
 3. All display wiring shall be internal to mounting pole or housed in a liquid-tight flex conduit, and not be externally exposed.
 4. All cables shall be neatly managed and labeled.
 - C. Customer Information Displays: At each station location as indicated in the Drawings, the Customer Information Displays shall be installed in accordance with the following requirements:
 1. Customer Information Displays shall be mounted within the HPT Markers using manufacturer-supplied or recommended hardware.
 2. All power cabling shall be pulled from the power cabinet indicated in the plans through the conduit and HPT marker to the display.
 3. All display wiring shall be internal to the HPT Marker and not be externally exposed.
 4. All cables shall be neatly managed and labeled.
- 3.4 INSTALLATION – CCTV CAMERAS
- A. Owner shall furnish and install all CCTV cameras.

- B. CCTV Cameras: At each station location as indicated in the Drawings, the Contractor shall perform the following installation activities:
 - 1. Cabling from the Surge Protection System within the communications rack shall be pulled through the existing and new conduit to the CCTV camera location and terminated on an RJ45 connector.
 - 2. All wiring shall be internal to the existing and new conduit system and not be externally exposed.

3.5 INSTALLATION – LUMINAIRES

- A. See Section 265619 “LED Exterior Lighting” for additional installation requirements.
- B. Luminaires: At each station location indicated in the Drawings, the luminaires shall be installed in accordance with the following requirements:
 - 1. Cabling from the power cabinet shall be pulled from the power cabinet shown on the plans through the conduit and pedestrian light poles, HPT marker, and/or shelter to each luminaire.
 - 2. Contractor shall adhere to all installation requirements in each luminaire type’s product literature to complete the installation.
 - 3. The Contractor shall dim the lights as instructed by the Owner.

3.6 FIELD QUALITY CONTROL

- A. Perform tests and inspections.
- B. Tests and Inspections: See Section 014000 “Quality Requirements” for testing requirements and Quality Control Checklist requirements.
 - 1. Quality Control Checklists shall be developed by the Contractor for each technology component/system for each installation site for review and approval by the Owner.
 - 2. Inspect physical and mechanical condition. Verify tightness of accessible, bolted, electrical connections with a calibrated torque wrench according to manufacturer’s written instructions. Verify all power and network cabling is neatly and securely installed, not exposed to public access and housed in appropriate liquid-tight conduit and connectors where exposed.
 - 3. Test the bonding connections of the system using an ac earth ground-resistance tester, taking two-point bonding measurements in each telecommunications equipment room containing a TMGB and a TGB and using the process recommended by BICSI TDMM. Conduct tests with the facility in operation.
 - a. Measure the resistance between the busbar and the nearest available grounding electrode. The maximum acceptable value of this bonding resistance is 100 milliohms.
- C. Grounding system will be considered defective if it does not pass tests and inspections.
- D. Prepare test and inspection reports.

3.7 REAL-TIME PASSENGER INFORMATION AND CUSTOMER INFORMATION DISPLAY TESTING AND ACCEPTANCE CRITERIA

- A. As part of Installation Testing, the Contractor shall test each Real-Time Passenger Information and Customer Information Display at each installation location.
 - 1. All tests shall be documented in accordance with the requirements outlined in Section 014000 “Quality Requirements”.
 - 2. At each station, testing for the Real-Time Passenger Information and the Customer Information Display System shall include:
 - a. Demonstration of powering on and off each display.
 - b. Verification that each display is connected to the STA-provided network.
 - c. Demonstration of the display using a test pattern and graphic from the media player for a minimum of 15 minutes.
 - d. Demonstration of uniformity of light intensity and color, using a calibrated photometer or similar device. Confirmation of compliance with the luminance and contrast ratio specifications shall be performed.
 - e. Visibility tests shall be conducted during the full range of ambient illumination conditions to verify the legibility distance, including dawn or sunset depending on site location.
- B. Acceptance Criteria: In addition to any requirements outlined in Section 014000 “Quality Requirements” and/or specified by Owner, the Contractor shall ensure the following Acceptance Criteria are met prior to receiving System Acceptance of the Real-Time Passenger Information and Customer Information Display installation:
 - a. Display is mounted according to manufacturer specifications.
 - b. Cable management has been implemented to ensure all cabling is out of public touch zones.
 - c. Display powers on and off.
 - d. Media player is connected to the STA-designated network
 - e. Graphics from the media player are displayed on the display.

3.8 CCTV CAMERA TESTING AND ACCEPTANCE CRITERIA

- A. All device testing of the CCTV cameras shall be performed by Owner.
- B. Acceptance Criteria: In addition to any requirements outlined in Section 014000 “Quality Requirements” and/or specified by Owner, the Contractor shall ensure the following Acceptance Criteria are met prior to receiving System Acceptance of the CCTV camera installation:
 - 1. Power cabling has been brought to the STA-designated location at the station.
 - 2. Cable is secured out of reach from the public.

3.9 MARKER, AND PEDESTRIAN LIGHT POLE LUMINAIRE TESTING AND ACCEPTANCE CRITERIA

- A. As part of Installation Testing, the Contractor shall test each luminaire at each installation location.
 - 1. All tests shall be documented in accordance with the requirements outlined in Section 014000 “Quality Requirements”.
 - 2. For each luminaire at each station, the Contractor shall test the following:

-
- a. Demonstration that the luminaire powers on and off.
 - b. Demonstration of the dimming capabilities for all dimmable luminaires.
 - c. Demonstration that each luminaire remains on for a minimum of 15 minutes.
- B. Acceptance Criteria: In addition to any requirements outlined in Section 014000 “Quality Requirements” and/or specified by Owner, the Contractor shall ensure the following Acceptance Criteria are met prior to receiving System Acceptance of the Luminaire installation:
- a. Luminaires are mounted to pedestrian light poles according to manufacturer specifications.
 - b. Luminaires power on and off.
 - c. Luminaires are dimmed to the appropriate light levels indicated in the Drawings, Technical Specifications, and approved by Owner.

END OF SECTION 270526

SECTION 321373 - CONCRETE PAVING JOINT SEALANTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Cold-applied joint sealants.
 - 2. Joint-sealant backer materials.
 - 3. Primers.
- B. Related Requirements:
 - 1. 321313 Concrete Paving

1.3 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site .

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples for Verification: For each kind and color of joint sealant required, provide Samples with joint sealants in 1/2-inch- (13-mm-) wide joints formed between two 6-inch- (150-mm-) long strips of material matching the appearance of exposed surfaces adjacent to joint sealants.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Product Certificates: For each type of joint sealant and accessory.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.

- B. Product Testing: Test joint sealants using a qualified testing agency.

1.7 FIELD CONDITIONS

- A. Do not proceed with installation of joint sealants under the following conditions:
1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer or are below 40 deg F (5 deg C).
 2. When joint substrates are wet.
 3. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
 4. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

- A. Compatibility: Provide joint sealants, backing materials, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.

2.2 COLD-APPLIED JOINT SEALANTS

- A. Immersible, Single-Component, Pourable, Traffic Grade Polyurethane Joint Sealant ASTM C 920, Type S, Grade P, Class 50, Use T and I.
1. Basis of Design Product: Tremco, Inc., Vulkem 45 SSL.
 2. Volatile Organic Compound (VOC) Content: 110 g/L maximum.
 3. Volatile Organic Emissions (VOE): Not greater than Greenguard Children & Schools Certification emissions levels.
 4. Color: As selected by Architect from manufacturer's standard line of not less than 5 colors.
- B. Equal.

2.3 JOINT-SEALANT BACKER MATERIALS

- A. Joint-Sealant Backer Materials: Nonstaining; compatible with joint substrates, sealants, primers, and other joint fillers; and approved for applications indicated by joint-sealant manufacturer, based on field experience and laboratory testing.
- B. Round Backer Rods for Cold- and Hot-Applied Joint Sealants: ASTM D5249, Type 1, of diameter and density required to control sealant depth and prevent bottom-side adhesion of sealant.

- C. Round Backer Rods for Cold-Applied Joint Sealants: ASTM D5249, Type 3, of diameter and density required to control joint-sealant depth and prevent bottom-side adhesion of sealant.
- D. Backer Strips for Cold- and Hot-Applied Joint Sealants: ASTM D5249; Type 2; of thickness and width required to control joint-sealant depth, prevent bottom-side adhesion of sealant, and fill remainder of joint opening under sealant.

2.4 PRIMERS

- A. Primers: Product recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine joints to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting joint-sealant performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Surface Cleaning of Joints: Before installing joint sealants, clean out joints immediately to comply with joint-sealant manufacturer's written instructions.
 - 1. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
- B. Joint Priming: Prime joint substrates where indicated or where recommended in writing by joint-sealant manufacturer, based on preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.

3.3 INSTALLATION OF JOINT SEALANTS

- A. Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated unless more stringent requirements apply.
- B. Joint-Sealant Installation Standard: Comply with recommendations in ASTM C1193 for use of joint sealants as applicable to materials, applications, and conditions.

- C. Install joint-sealant backings to support joint sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
 - 1. Do not leave gaps between ends of joint-sealant backings.
 - 2. Do not stretch, twist, puncture, or tear joint-sealant backings.
 - 3. Remove absorbent joint-sealant backings that have become wet before sealant application and replace them with dry materials.
- D. Install joint sealants immediately following backing installation, using proven techniques that comply with the following:
 - 1. Place joint sealants so they fully contact joint substrates.
 - 2. Completely fill recesses in each joint configuration.
 - 3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.
- E. Tooling of Nonsag Joint Sealants: Immediately after joint-sealant application and before skinning or curing begins, tool sealants according to the following requirements to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint:
 - 1. Remove excess joint sealant from surfaces adjacent to joints.
 - 2. Use tooling agents that are approved in writing by joint-sealant manufacturer and that do not discolor sealants or adjacent surfaces.
- F. Provide joint configuration to comply with joint-sealant manufacturer's written instructions unless otherwise indicated.

3.4 CLEANING AND PROTECTION

- A. Clean off excess joint sealant as the Work progresses, by methods and with cleaning materials approved in writing by joint-sealant manufacturers.
- B. Protect joint sealants, during and after curing period, from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealants immediately and replace with joint sealant so installations in repaired areas are indistinguishable from the original work.

END OF SECTION 321373

SECTION 323300 - SITE FURNISHINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Retain or delete this article in all Sections of Project Manual.
- B. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes Installation of:
 - 1. Seating.
 - 2. Leaning Rails.
 - 3. Trash/Recycling receptacles.
- B. Site Furnishings are furnished by Owner. Contractor to furnish and install all fasteners for installation of Site Furnishings.
- C. Related Requirements:
 - N/A

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of fastener.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For site furniture fastening to include in maintenance manuals.

1.5 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish 5 each of every product component that is replaceable that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

PART 2 - PRODUCTS - Seating, leaning rails and trash/recycling receptacles are furnished by Owner. Refer to reference appendix for full description of items to be installed.

2.1 MATERIALS- Furnish and install the following fastening for owner furnished contractor installed site furnishings:

- A. Anchors, Fasteners, Fittings, and Hardware: Stainless steel; type 316, commercial quality, tamperproof, vandal and theft resistant.
 - 1. Provide post concrete pour fasteners of diameter to just under hole size provided by site furniture manufacturer to allow for tolerance.
- B. Concealed fasteners- Where securely concealed by site furnishing provide stainless steel concrete screws, Simpson Strong-Tie Titen HD or equal.
 - 1. Maximum embedment is 5". Adhere to edge distance recommendations by fastener manufacturer. Edge distance applies at expansion joints and edge of slab.
 - 2. Where edge distance is inadequate substitute Simpson Strong-Tie stainless steel drop-in anchor and stainless bolt.
 - 3. If edge distance is inadequate for drop-in anchor, substitute epoxy anchor Hilti HIT-RE 500 V3 or equal and stainless-steel threaded rod with nuts and washers.
 - 4. Install all fasteners in compliance with manufacturer instructions, recommendations and guidelines.
- C. Exposed fasteners- Provide Simpson Strong-Tie Titen HD Type 316 stainless steel Torx drive concrete screws.
 - 1. Coordinate countersinking of holes in site furniture with site furniture provider.
 - 2. Where edge distance is inadequate for concrete screws, provide Simpson Strong-Tie stainless steel drop-in anchor and Torx drive stainless bolt.
 - 3. Install all fasteners in compliance with manufacturer instructions, recommendations and guidelines.
- D. Erosion-Resistant Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with potable water at Project site to create pourable anchoring, patching, and grouting compound; resistant to erosion from water exposure without needing protection by a sealer or waterproof coating; recommended in writing by manufacturer, for exterior applications.

2.2 GENERAL FINISH REQUIREMENTS

- A. Appearance of Finished Work: Noticeable variations in same piece are unacceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for correct and level finished grade, mounting surfaces, installation tolerances, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Comply with manufacturer's written installation instructions unless more stringent requirements are indicated. Complete field assembly of site furnishings where required.
- B. Unless otherwise indicated, install site furnishings after landscaping and paving have been completed.
- C. Install site furnishings level, plumb, true, and securely anchored/positioned at locations indicated on Drawings. Provide stainless steel shim stock as required.
- D. Posts Set into Voids in Concrete: Form or core-drill holes for installing posts in concrete to depth recommended in writing by manufacturer of site furnishings and 3/4 inch (19 mm) larger than OD of post.
 - 1. Clean holes of loose material, insert posts, and fill annular space between post and concrete with non-shrink, nonmetallic grout or anchoring cement, mixed and placed to comply with anchoring material manufacturer's written instructions, with top smoothed and shaped to shed water.

END OF SECTION



**SPOKANE TRANSIT
1230 W. BOONE AVENUE
SPOKANE, WA 99201**

**Appendix 01 – HPT Fabrication Drawings
SPRAGUE LINE HPT - PHASE 2**

PROJECT #2025-11062



IF IN DOUBT ASK

Please refer to General Assembly drawings for visible parts and faces:-
FSI-08-12-000 HPT MARKER GENERAL ARRANGEMENT

All visible parts and visible faces are decorative, these are to be smooth and free from grinding/ polishing marks, weld sink marks, surface imperfections, blemishes and scratches. Remove all sharp edges and burrs

Clean all galvanized assemblies (i.e. peaks, streaks, etc) Steel to be SSPC 6/NACE3 prepped prior to galvanizing

External welds [except corner fillet] to be dressed back flush and if unpainted to be matching in appearance of adjacent surface finishes
External faces to be free from weld spatter
Remove blue welding marks and heat stains from unpainted visible faces
All site-drilled/pre-drilled holes must be touched up with corrosion-resistant coating.

Any painted items to be pre-treated in accordance with paint manufacturers recommendations. Paint to be applied in accordance with paint manufacturers recommendations
Paint finishes must meet AMMA standards
All painted faces must be treated as class A surfaces.
All threaded holes need to be masked before applying primer and paint or any coating.

All fasteners to be 316 stainless steel where ever possible
All structural bolts to be A325 Galvanized bolts. Galvanized bolts to be to ASTM A153
Bolts to be snug tight. Connections are not slip critical.

All exterior panels are to be vinyl wrapped using certified 3M vinyl and certified 3M vinyl wrap specialist. Vinyl Wrap to be provided by others.

EXTERIOR HIGH-PERFORMANCE COATING SCHEDULE

Non-Ferrous - Aluminum

Surface Preparation: Clean all surfaces to be coated per SP-1 Solvent Cleaning. Scarify to profile a 1-2 mil profile over 100% of surfaces to be coated.
Note: Surface imperfections such as slivers and laminations, sharp edges, weld spatter, or burning slag shall be removed from the surfaces to create a smooth transition to be coated.
Primer:
Finish: RAL 9005 (MAP CASE FRAME)
Finish color per schedule

Non-Ferrous - Stainless Steel Substrates

Surface Preparation: Clean all surfaces to be coated per SP-1 Solvent Cleaning. Scarify to profile a 1-2 mil profile over 100% of surfaces to be coated.
Note: Surface imperfections such as slivers and laminations, sharp edges, weld spatter, or burning slag shall be removed from the surfaces to create a smooth transition to be coated.
Primer:
Finish: TO BE UNCOATED ONLY CLEANED, RAL 7024 (CITY LINE MARKER SKIRT), RAL9003 (HPT MARKER SKIRT)
Finish color per schedule

FOR ALL PUSH THROUGH VINYL WRAP COLORS REFER TO DRAWINGS MENTIONED ABOVE.

Please refer to General Assembly drawings for internal parts:-

FSI-08-12-001	MARKER BASE
FSI-08-12-002	HPT MARKER MAIN FRAME ASSEMBLY DETAILS
FSI-08-12-005	HPT MARKER KICK PLATE MOUNTING BRACKET
FSI-08-12-007	HPT MARKER MEDIA PLAYER MOUNTING PLATE DETAILS
FSI-08-12-008	DISPLAY MONITOR MOUNTING BRACKET
FSI-08-12-016	MARKER TO CANOPY ANGLE CONNECTION

All parts not visible when marker is installed is to be galvanized.
After galvanizing all the peaks or burrs should be removed and touched up with zinc spray.
All sharp edges and burrs shall be removed.
Any visible weld must be ground flush.
All site-drilled/pre-drilled holes must be touched up with corrosion-resistant coating.

* ADHESIVE BACKED SEALS FOR GAPS BETWEEN MARKER CLADDING TO BE SUPPLIED BY FSI. TO BE APPLIED BY GENERAL CONTRACTOR ONCE VINYL HAS BEEN APPLIED.

DISPLAY MONITORS OVERALL DIMENSIONS ARE BASED OFF OF DAKTRONICS MECHANICAL DRAWING. DISPLAY AREA TO BE VERIFIED.

SHOP DRAWING/SUBMITTAL REVIEW

☐ APPROVED ☒ APPROVED WITH CHANGES NOTED

☐ REVISE AND RESUBMIT ☐ REJECTED

SUBMITTAL WAS REVIEWED FOR DESIGN CONFORMITY AND GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT JOBSITE FOR TOLERANCE, CLEARANCE, QUANTITIES, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF HIS WORK WITH OTHER TRADES AND FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS.

BY: Nick Hanson DATE: Feb 11, 2022

Title: Capital Projects Manager

SIGNATURE:

Spokane Transit Authority
1230 W. Boone Ave | Spokane, WA 99201

1. Approved by Dan Wells via email on January 7, 2022.
2. Approval contingent upon submittal of structural engineering calculations and stamped drawings.

1	CC	2021-12-08	ADDED NOTE FOR PREPPING STEEL PRIOR TO GALVANIZING
0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
future systems inc			
All dimensions in inches. Do not manually alter CAD drawings, Do not scale			
Client Spokane Transit Property of STA			
Title GENERAL FINISHING NOTES			
Scale NTS		Date 2021-04-01	
Drawn CC		Page 1 OF 1	
Drawing No.			Rev 1

IF IN DOUBT ASK

Notes: Remove all sharp edges and burrs unless otherwise stated

All galvanized assemblies to be cleaned after galvanizing (i.e. Peaks, streaks, etc)

Adhesive seals (Item 14) **to be supplied by FSI but applied by others**

Material: 304 Stainless Steel, HSS Steel, A36 Steel Plate, Acrylic

Finish: Steel Assemblies to be galvanized per general finishing notes

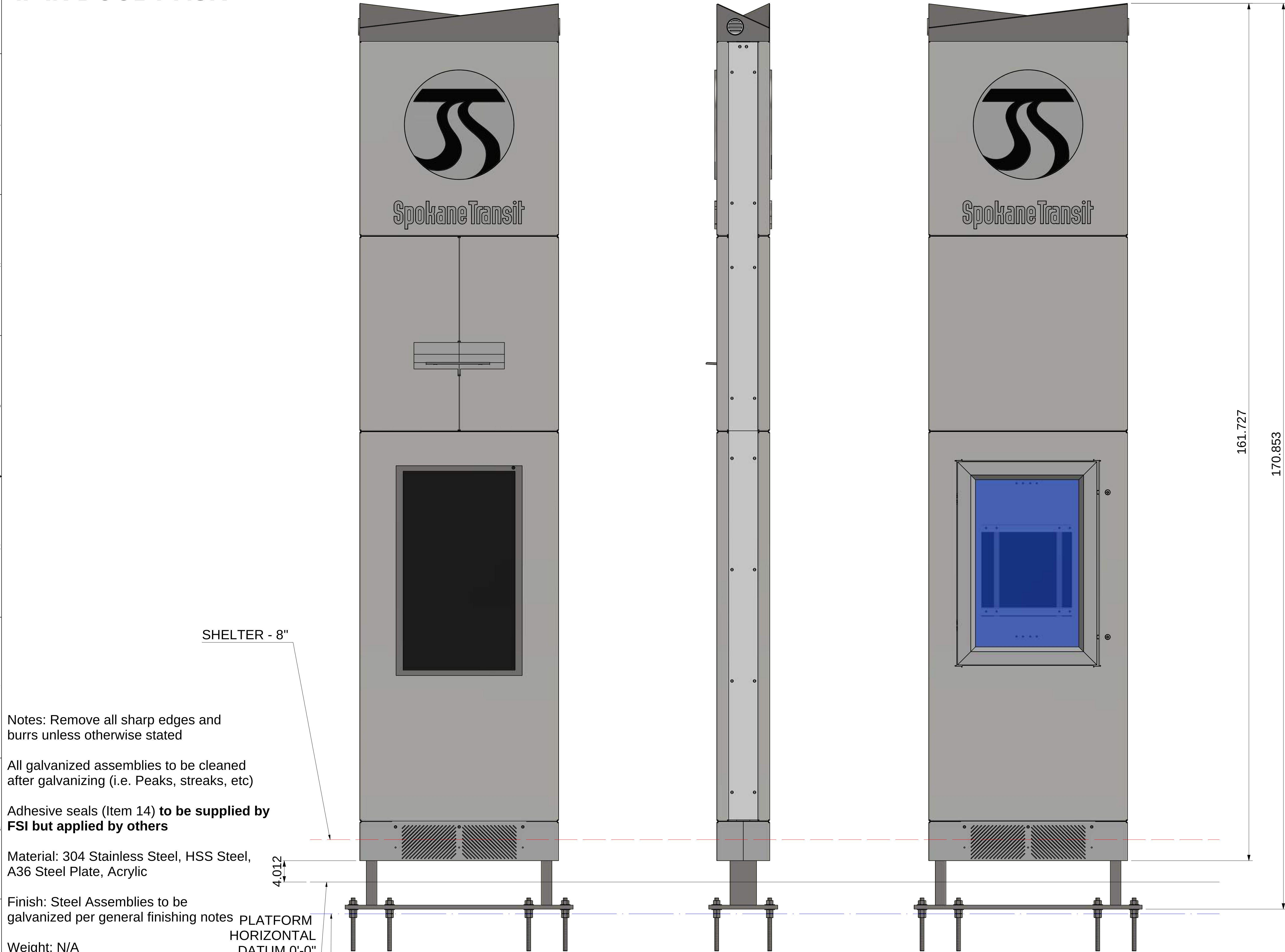
Weight: N/A

Tolerances unless stated otherwise to be at $\pm 1/32"$

SHELTER - 8"

PLATFORM
HORIZONTAL
DATUM 0'-0"

TOP OF
FOOTING



161.727

170.853

2	CC	12/16/2021	ADDED ITEM 30/ CHANGES TO MAP CASE PANEL ASSEMBLY
1	CC	12/09/2021	CHANGED SCREEN PANEL
0	CC	11/29/2021	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS

future
systems inc

All dimensions in inches.
Do not manually alter
CAD drawings,
Do not scale

Client

Spokane Transit

Property of STA

Title

HPT MARKER
GENERAL ASSEMBLY

Scale

NTS

Date

01-27-2021

Drawn

CC

Page

1 OF 6

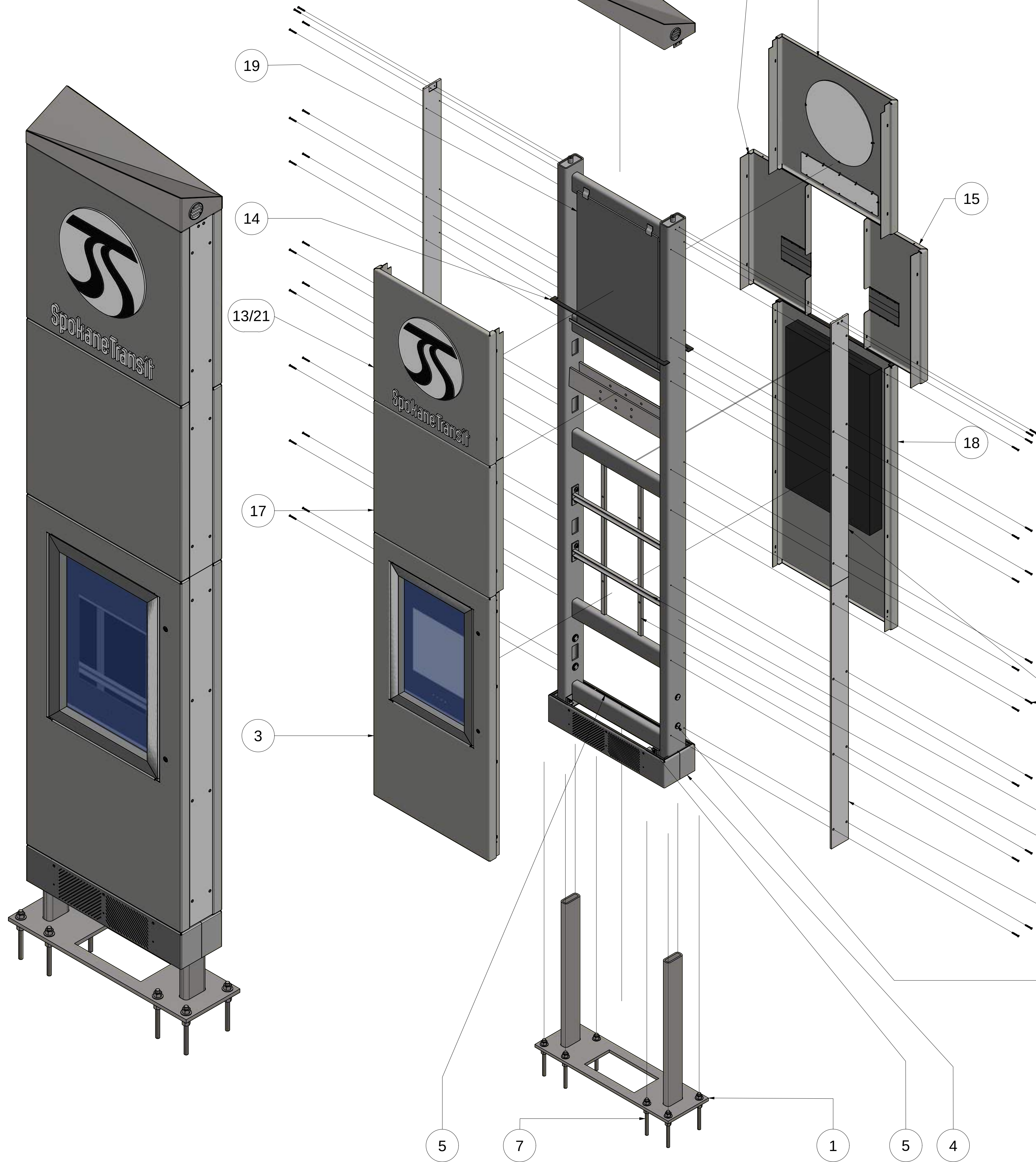
Drawing No.

FSI-08-12-000

Rev

2

IF IN DOUBT ASK



PARTS LIST			
ITEM	QTY	DRAWING NUMBER	DESCRIPTION
1	1	HPT MARKER FOOTINGS FRAME	FSI-08-12-001
2	1	HPT MARKER MAINFRAME	FSI-08-12-002
3	1	MAP CASING PANEL ASSEMBLY	FSI-08-12-003
4	2	FSI8-01-406 - HPT MARKER KICK PANEL ASSY - 01	
5	2	HPT MARKER KICK PANEL MOUNTING BRACKET ASSEMBLY	FSI-08-12-005
6	4	CUSTOM PIG NOSE BOLT ASSEMBLY	FSI-08-100-001
7	8	EPOXY SET ANCHORS	SIMPSON AT-XP
8	2	HPT MARKER MONITOR BRACKET	FSI-08-12-008
9	2	BOTTOM SIDE COVER	FSI-08-12-009
10	2	TOP SIDE COVER	FSI-08-12-010
11	36	18-8 SS TAMPER-RESIST FLAT HEAD MACHINE SCREW (HPT MARKER ONLY)	94063A550_ MCMaster-CARR OR EQUIVALENT
12	1	Top Crown Beacon Assembly	FSI-08-12-011
13	2	Logo Panel Assembly	FSI-08-12-012
14	8	HPT MARKER SEAL (1296N13 McMaster-Carr or Equivalent)	SEE NOTES ON PAGE 1
15	1	LEFT MARKER TO CANOPY CLADDING PANEL	FSI-08-12-013
16	1	RIGHT CANOPY TO MAKER CLADDING PANEL	FSI-08-12-013A
17	1	HPT MARKER UPPER FRONT TOP BOTTOM PANEL	FSI-08-12-014
18	1	HPT MARKER FRONT MONITOR PANEL ASSEMBLY	FSI-08-12-015
19	2	LED MOUNTING PANEL	PROVIDED BY OTHERS
20	2	CANOPY CONNECTION - ANGLE BRACKET	FSI-08-12-016
21	2	CITY LINE LOGO PANEL	FSI-08-12-017
22	2	MARKER MONITOR MOUNTING BARS	FSI-08-12-018
23	8-16	1/2" UNC - 1.75 - A325 GALVANIZED BOLT (CANOPY TO MARKER CONNECTION)	91583A118 - MCMaster-CARR OR EQUIVALENT
24	8-16	1/2" UNC - A325 GALVANIZED HEX NUT (CANOPY TO MARKER CONNECTION)	91694A315 - MCMaster-CARR OR EQUIVALENT
25	16-32	1/2" GALVANIZED WASHERS (CANOPY TO MARKER CONNECTION)	98119A033 - MCMaster-CARR OR EQUIVALENT
26	8-16	1/2" GALVANIZED LOCK WASHERS (CANOPY TO MARKER CONNECTION)	95160A230 - MCMaster-CARR OR EQUIVALENT
27	2-4	1/4" UNC - 0.75 - 18-8 SS HEX BOLT (ITEM 15 AND 16)	92245A540 - MCMaster-CARR OR EQUIVALENT
28	2-4	1/4" UNC 18-8 SS HEX NUT (ITEM 15 AND 16)	92673A113 - MCMaster-CARR OR EQUIVALENT
29	4-8	1/4" WASHER (ITEM 15 AND 16)	93852A102 - MCMaster-CARR OR EQUIVALENT
30	36	Black Oxide Alloy Stainless Steel TAMPER-RESIST FLAT HEAD MACHINE SCREW (CITY LINE MARKER ONLY)	1.1422FS AFT FASTENERS OR EQUIVALENT

Notes: Remove all sharp edges and burrs unless otherwise stated

All galvanized assemblies to be cleaned after galvanizing (i.e. Peaks, streaks, etc)

Adhesive seals (Item 14) to be supplied by FSI but applied by others

Item 11 is only for HPT markers
Item 30 is only for CITY LINE markers

Material: 304 Stainless Steel, HSS Steel, A36 Steel Plate, Acrylic

Finish: Steel Assemblies to be galvanized per general finishing notes

Weight: N/A

Tolerances unless stated otherwise to be at ± 1/32"

All dimensions in inches.
Do not manually alter CAD drawings,
Do not scale

Client

Property of STA

Title

HPT MARKER
GENERAL ASSEMBLY

Scale

NTS

Date

01-27-2021

Drawn

CC

Page

2 OF 6

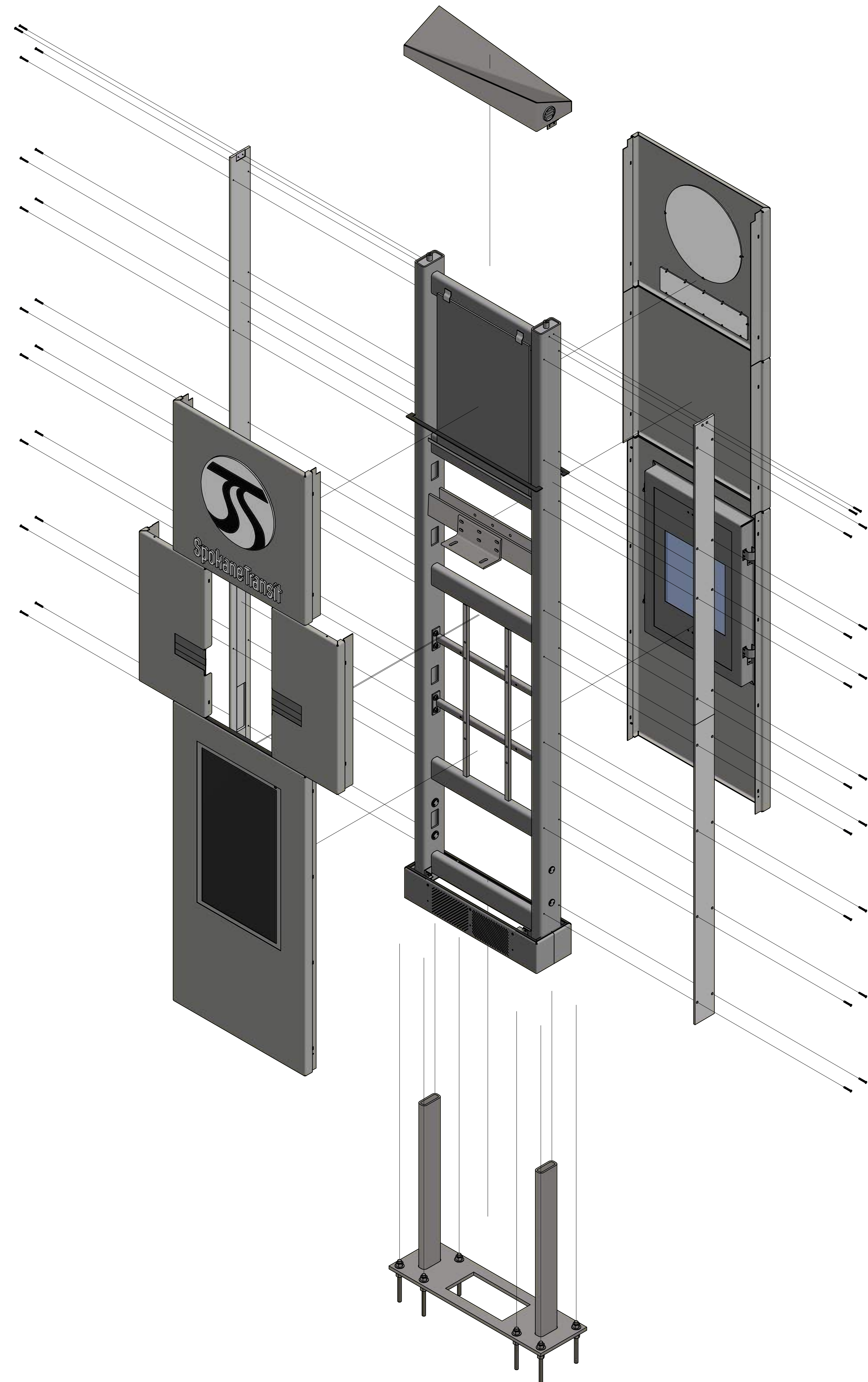
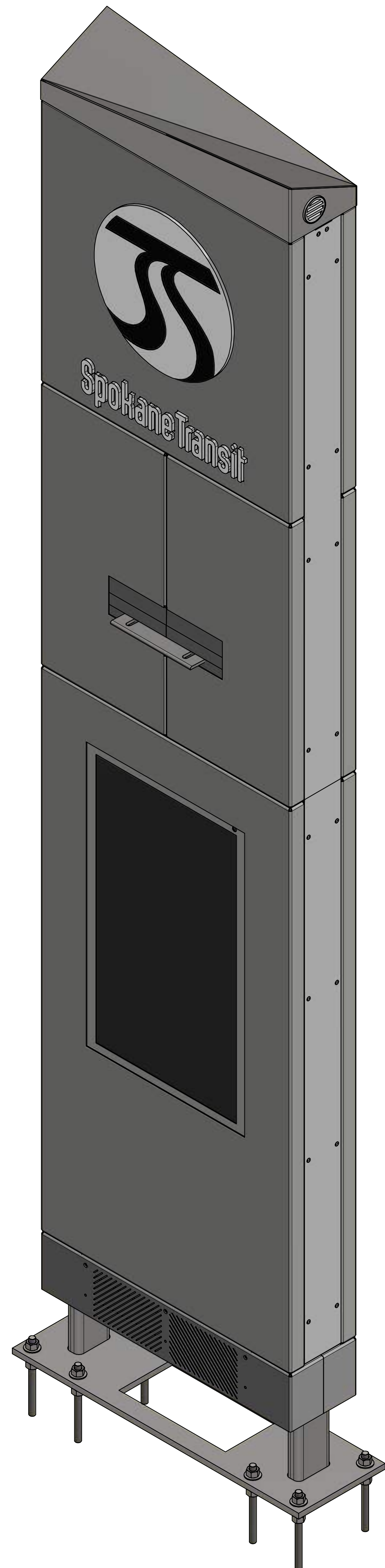
Drawing No.

FSI-08-12-000

Rev

2

IF IN DOUBT ASK



Notes: Remove all sharp edges and burrs unless otherwise stated

All galvanized assemblies to be cleaned after galvanizing (i.e. Peaks, streaks, etc)

Adhesive seals (Item 14) **to be supplied by FSI but applied by others**

Material: 304 Stainless Steel, HSS Steel, A36 Steel Plate, Acrylic

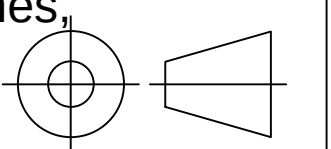
Finish: Steel Assemblies to be galvanized per general finishing notes

Weight: N/A

Tolerances unless stated otherwise to be at $\pm 1/32"$

future
systems inc

All dimensions in inches.
Do not manually alter
CAD drawings,
Do not scale



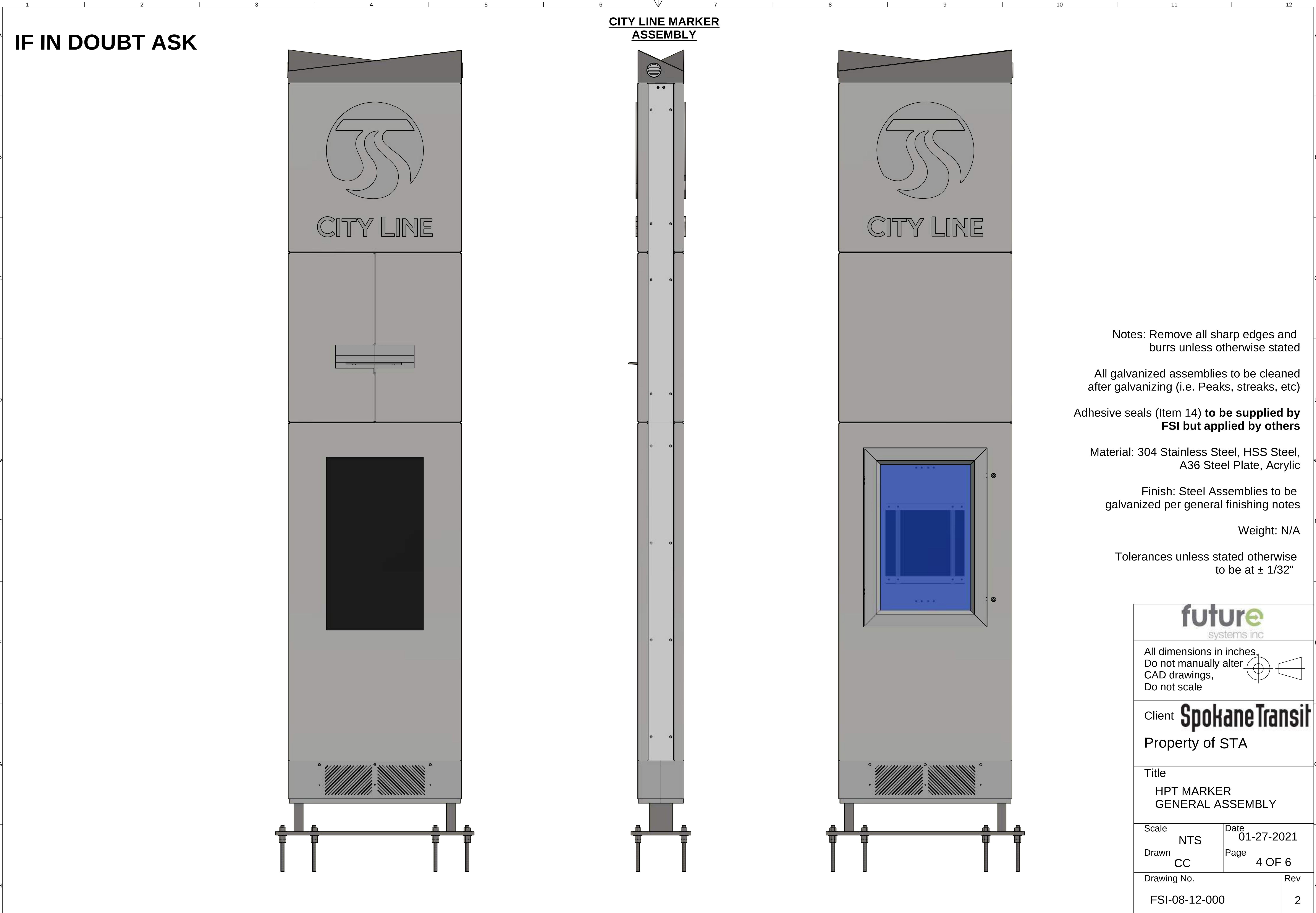
Client **SpokaneTransit**
Property of STA

Title
HPT MARKER
GENERAL ASSEMBLY

Scale NTS Date 01-27-2021

Drawn CC Page 3 OF 6

Drawing No. FSI-08-12-000 Rev 2

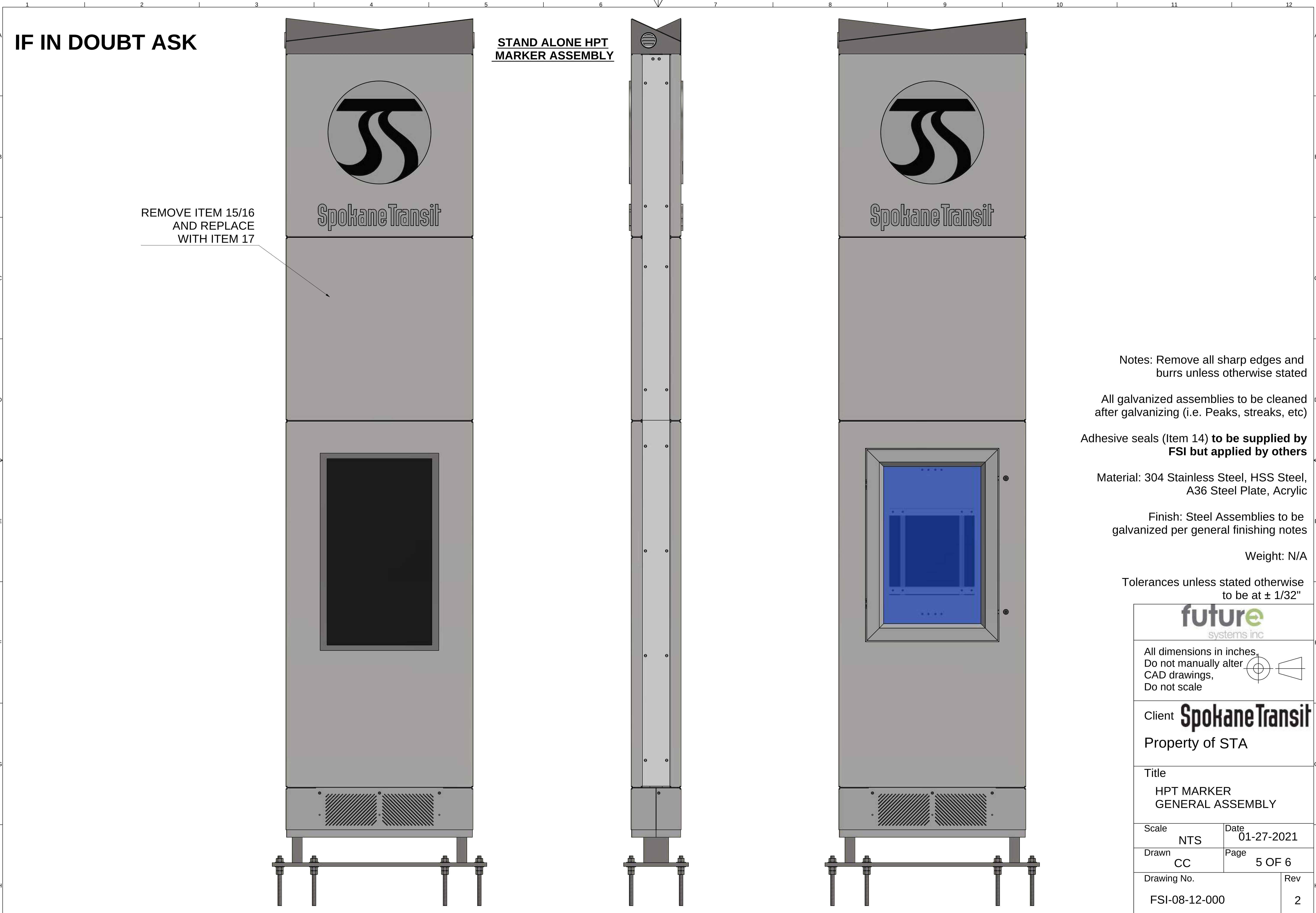


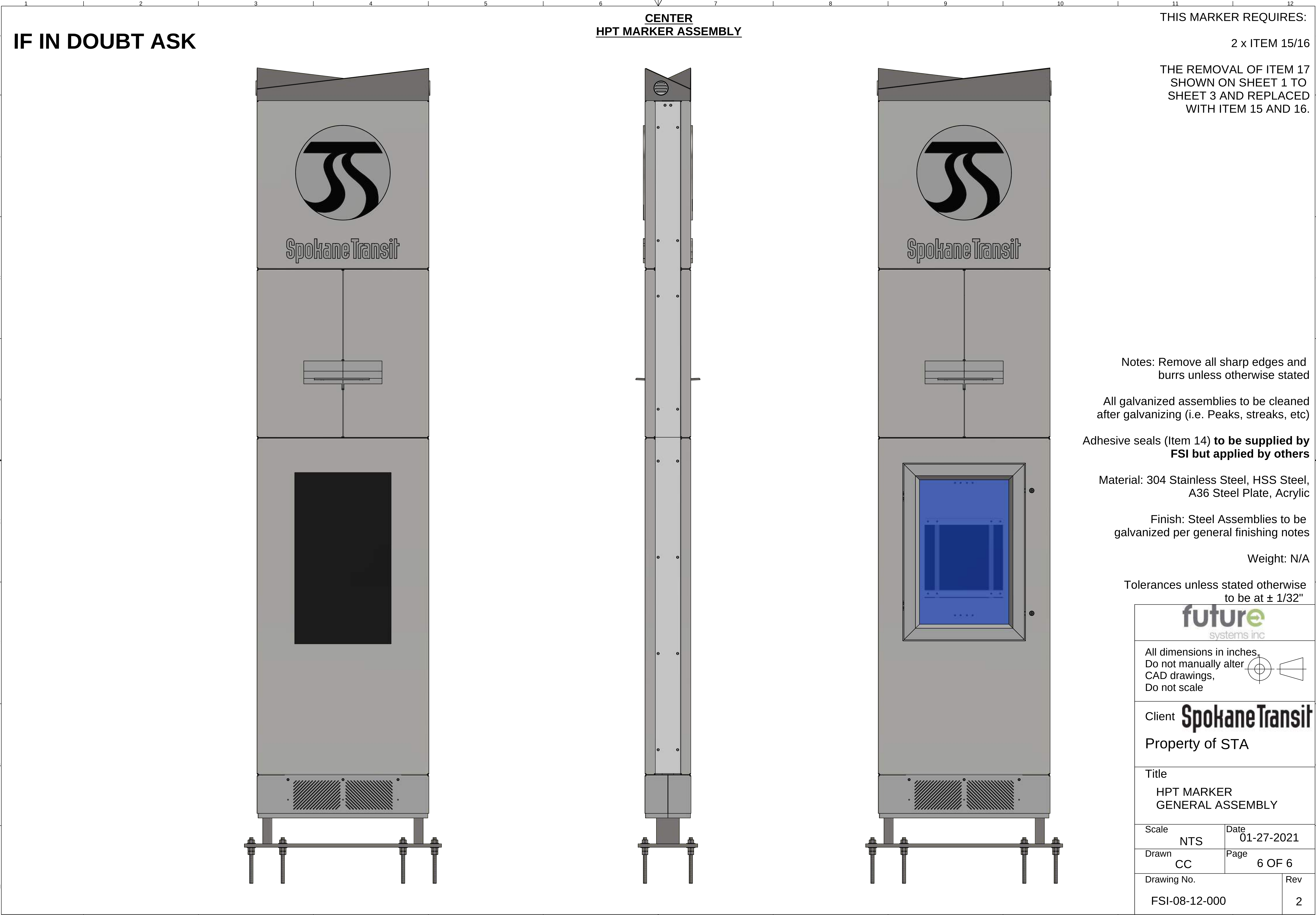
IF IN DOUBT ASK

CITY LINE MARKER
ASSEMBLY

- Notes: Remove all sharp edges and burrs unless otherwise stated
- All galvanized assemblies to be cleaned after galvanizing (i.e. Peaks, streaks, etc)
- Adhesive seals (Item 14) **to be supplied by FSI but applied by others**
- Material: 304 Stainless Steel, HSS Steel, A36 Steel Plate, Acrylic
- Finish: Steel Assemblies to be galvanized per general finishing notes
- Weight: N/A
- Tolerances unless stated otherwise to be at $\pm 1/32"$

future systems inc	
All dimensions in inches, Do not manually alter CAD drawings, Do not scale	
Client Spokane Transit Property of STA	
Title HPT MARKER GENERAL ASSEMBLY	
Scale NTS	Date 01-27-2021
Drawn CC	Page 4 OF 6
Drawing No. FSI-08-12-000	Rev 2





IF IN DOUBT ASK

CENTER
HPT MARKER ASSEMBLY

THIS MARKER REQUIRES:

2 x ITEM 15/16

THE REMOVAL OF ITEM 17
SHOWN ON SHEET 1 TO
SHEET 3 AND REPLACED
WITH ITEM 15 AND 16.

Notes: Remove all sharp edges and
burrs unless otherwise stated

All galvanized assemblies to be cleaned
after galvanizing (i.e. Peaks, streaks, etc)

Adhesive seals (Item 14) **to be supplied by
FSI but applied by others**

Material: 304 Stainless Steel, HSS Steel,
A36 Steel Plate, Acrylic

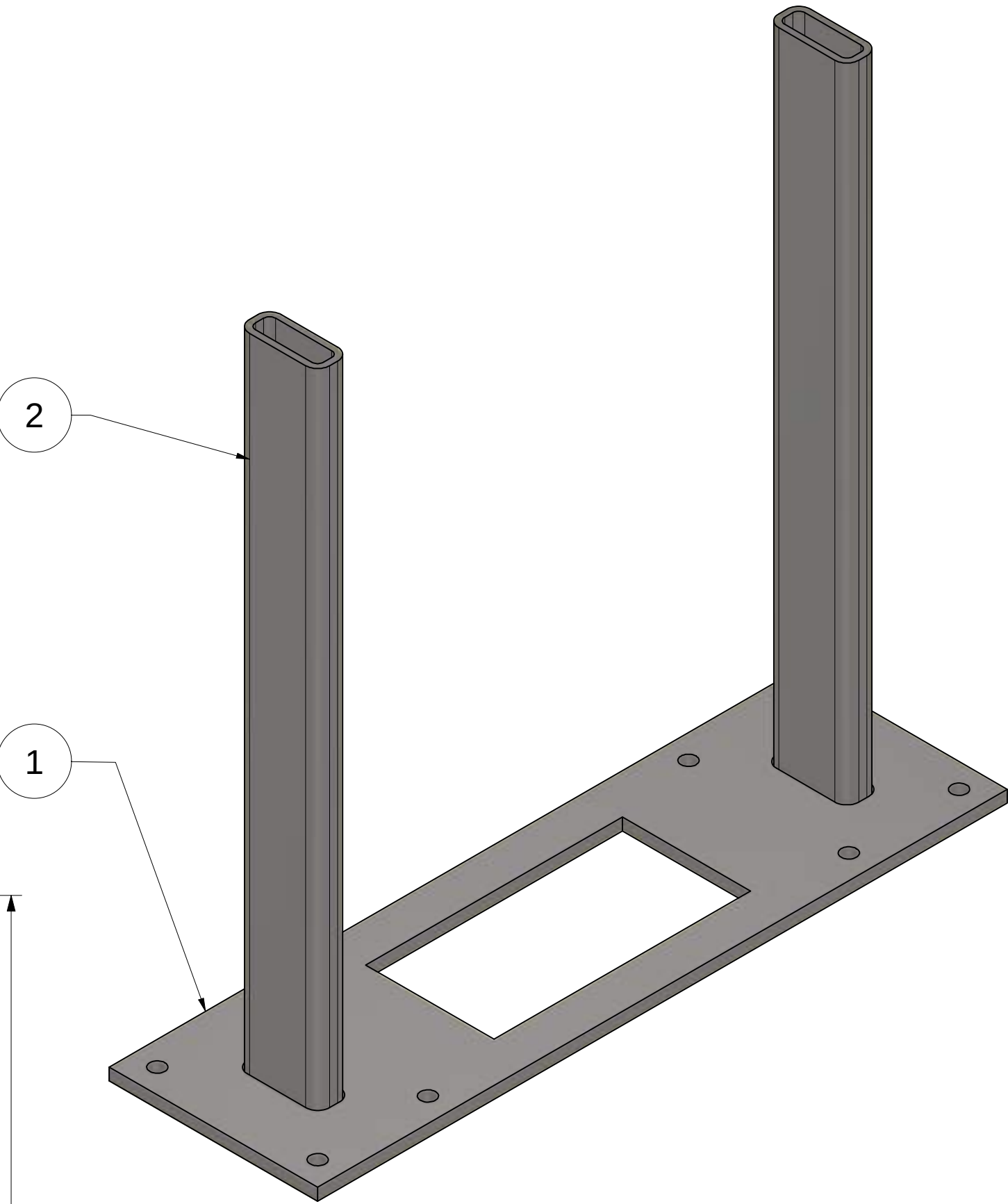
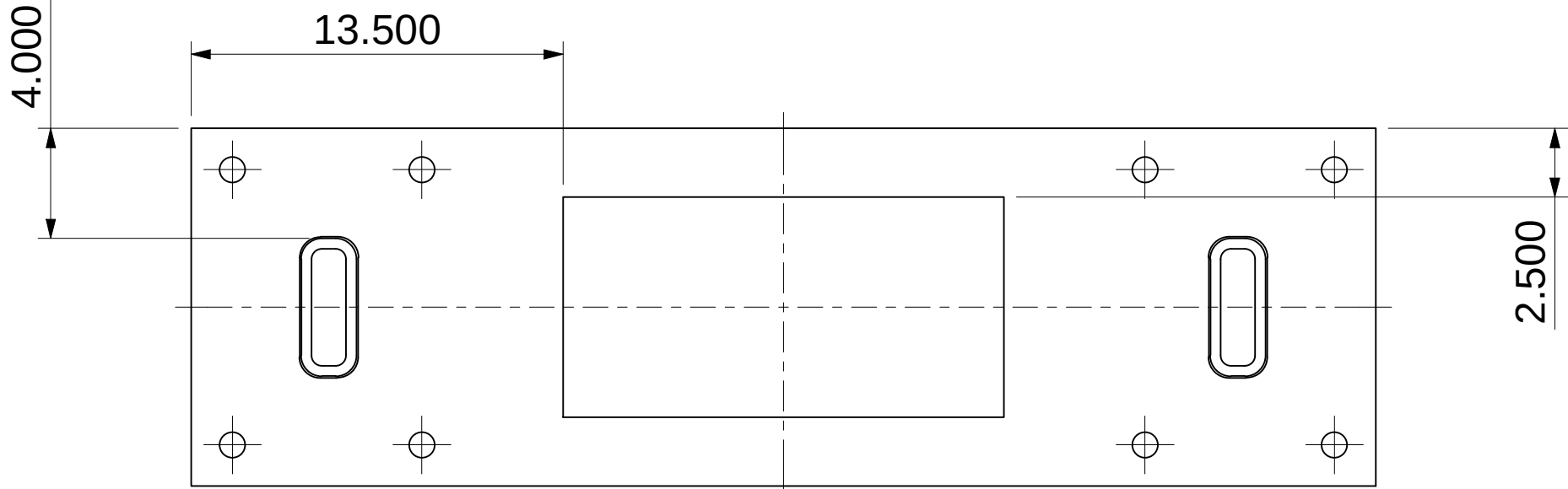
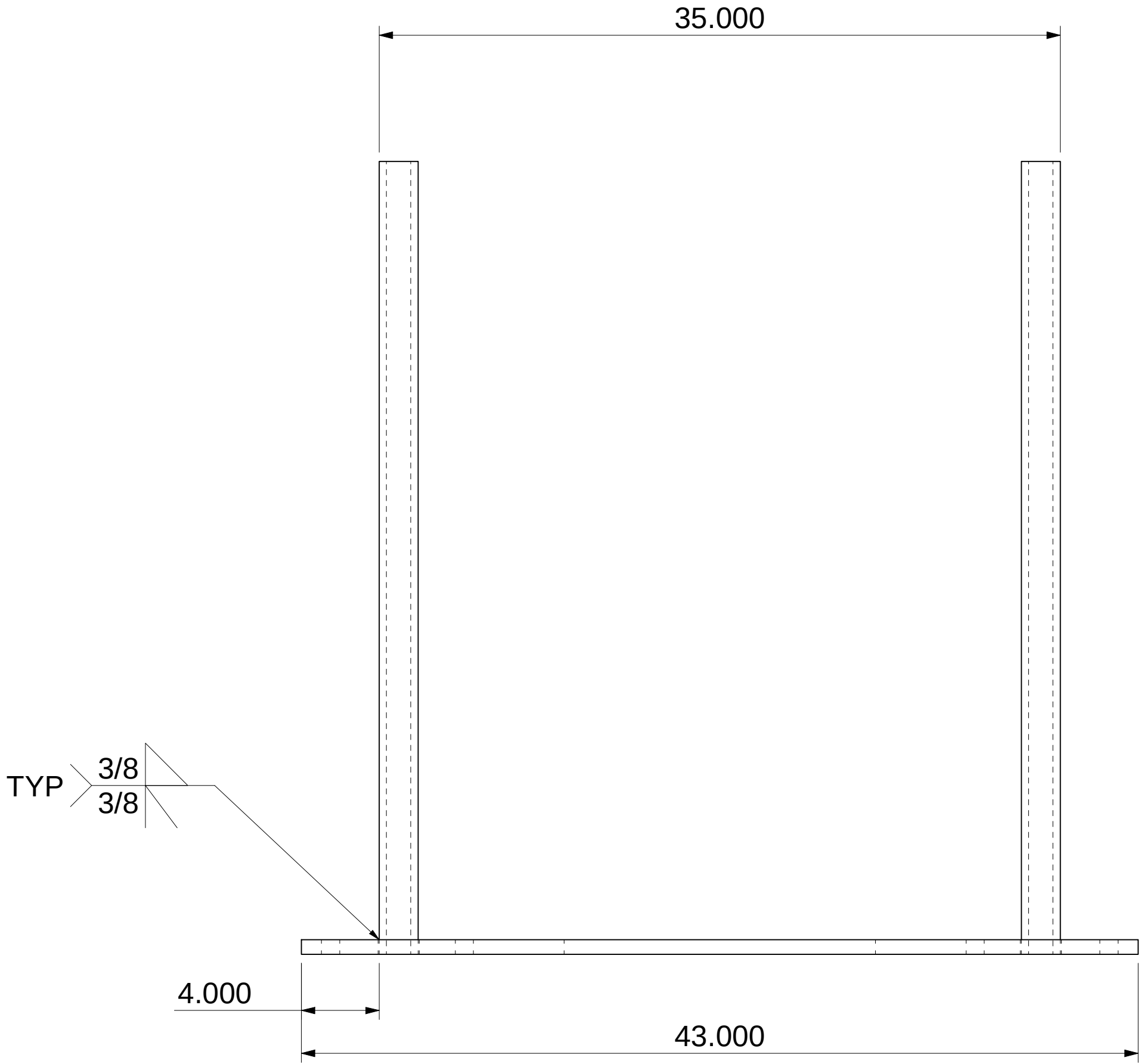
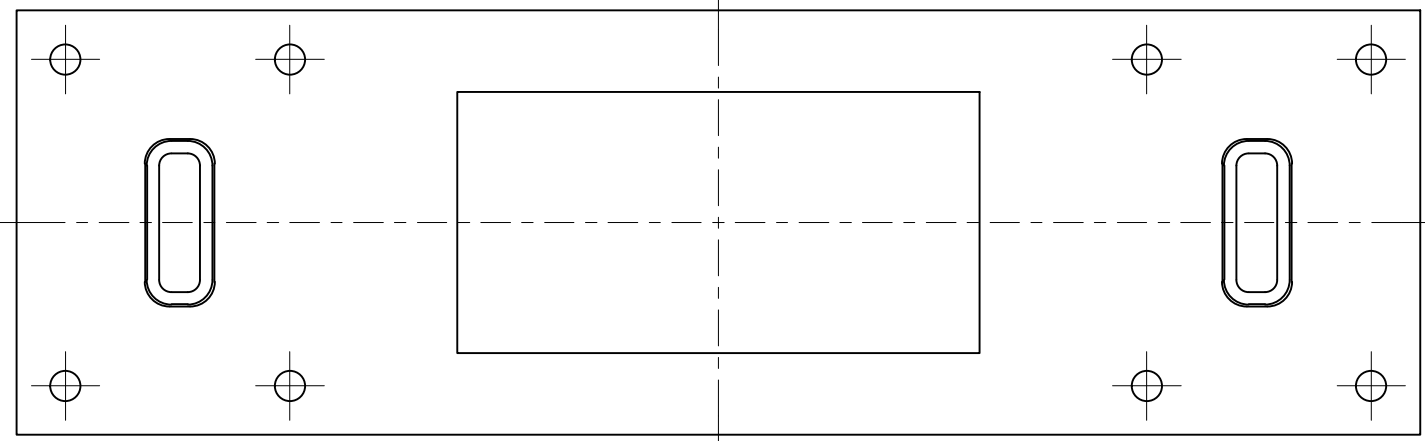
Finish: Steel Assemblies to be
galvanized per general finishing notes

Weight: N/A

Tolerances unless stated otherwise
to be at $\pm 1/32"$

All dimensions in inches, Do not manually alter CAD drawings, Do not scale	
Client Spokane Transit Property of STA	
Title HPT MARKER GENERAL ASSEMBLY	
Scale NTS	Date 01-27-2021
Drawn CC	Page 6 OF 6
Drawing No. FSI-08-12-000	Rev 2

IF IN DOUBT ASK



Notes: Remove all sharp edges and burrs unless otherwise stated.

Clean assemblies after galvanizing (i.e. Peaks, streaks, etc)

Material: HSS Steel, A36 Steel Plate

Finish: Assemblies to be galvanized

Approx. Weight: 85kgs (186lbs)

Assemblies Required Per Marker: 1

Tolerances unless stated otherwise to be at $\pm 1/32$ "

PARTS LIST			
ITEM	QTY	DRAWING NUMBER	DESCRIPTION
1	1	HPT MARKER FOOTINGS BASE PLATE	REF SHEET 2 OF 3
2	2	HPT MARKER FOOTINGS COLUMN	REF SHEET 3 OF 3

0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
			
All dimensions in inches. Do not manually alter CAD drawings, Do not scale			
Client SpokaneTransit			
Property of STA			
Title HPT MARKER FOOTINGS FRAME DETAILS			
Scale NTS		Date 2021-01-20	
Drawn CC		Page 1 OF 3	
Drawing No. FSI-08-12-001			Rev 0

IF IN DOUBT ASK

ITEM: 1 - HPT MARKER FOOTINGS BASE PLATE



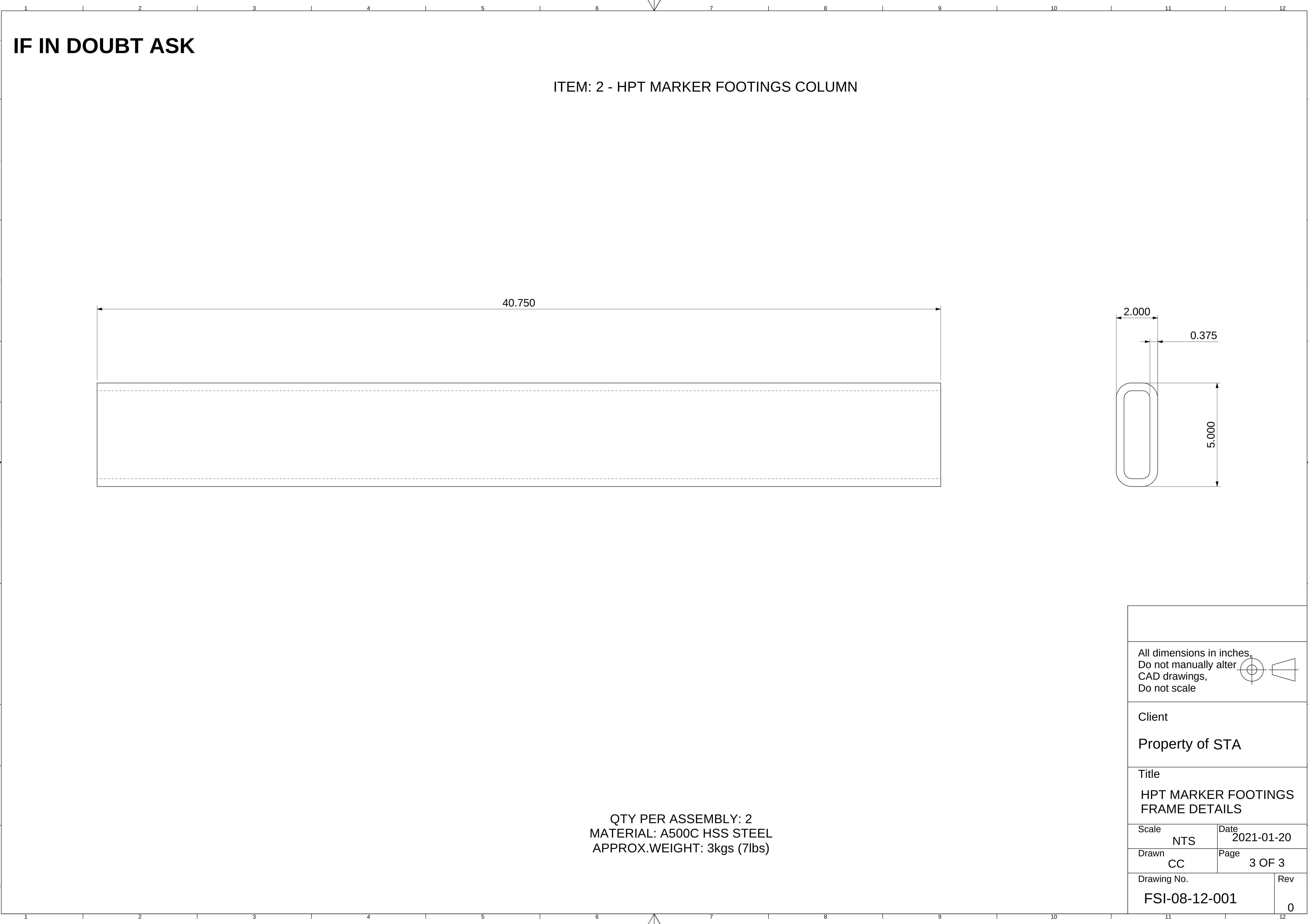
QTY PER ASSEMBLY: 1
MATERIAL: A36 STEEL PLATE
APPROX.WEIGHT: 5kgs (11lbs)

All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale

Client **SpokaneTransit**
Property of STA

Title
HPT MARKER FOOTINGS
FRAME DETAILS

Scale NTS	Date 2021-01-20
Drawn CC	Page 2 OF 3
Drawing No. FSI-08-12-001	Rev 0



IF IN DOUBT ASK

ITEM: 2 - HPT MARKER FOOTINGS COLUMN

40.750

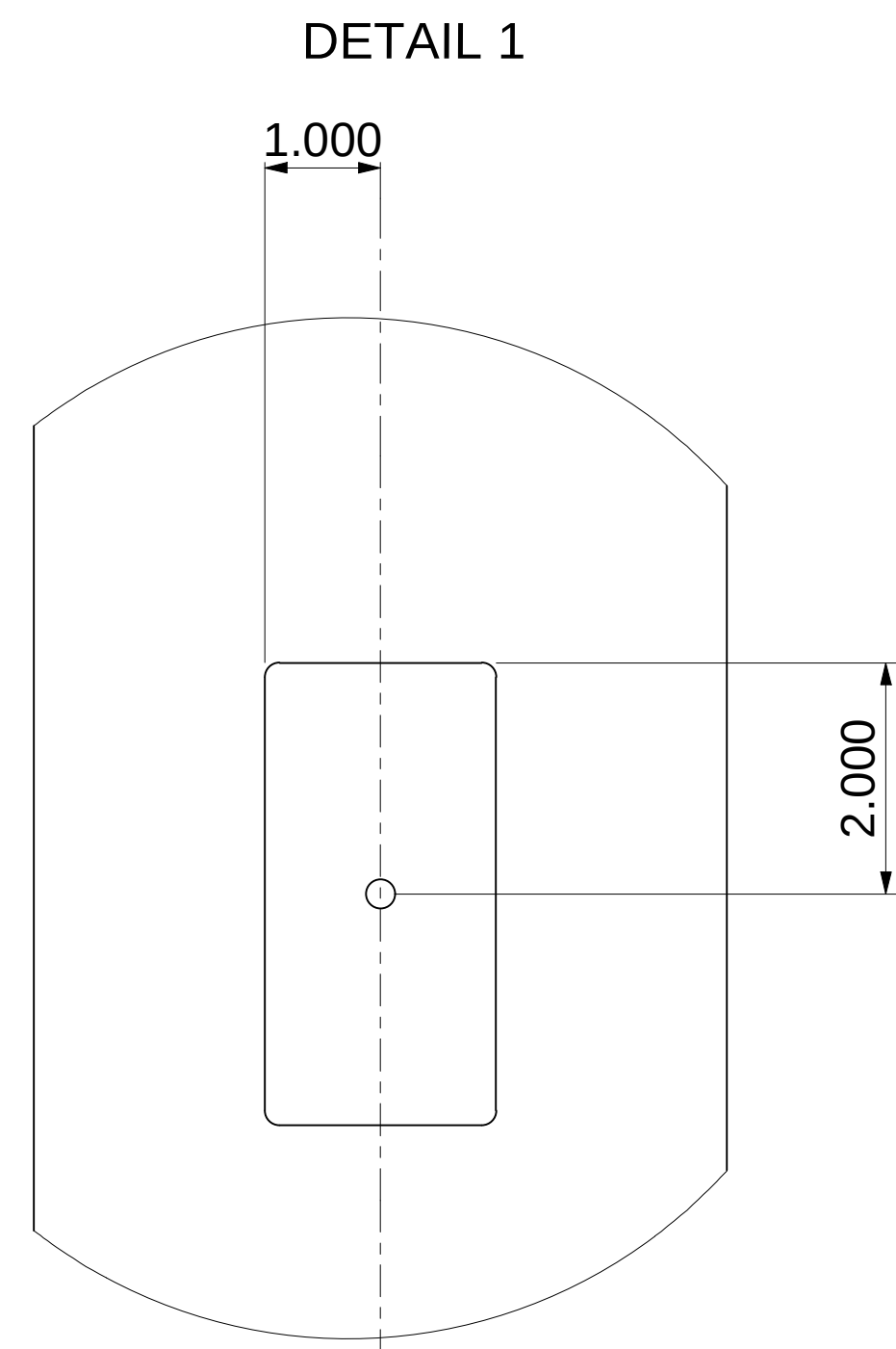
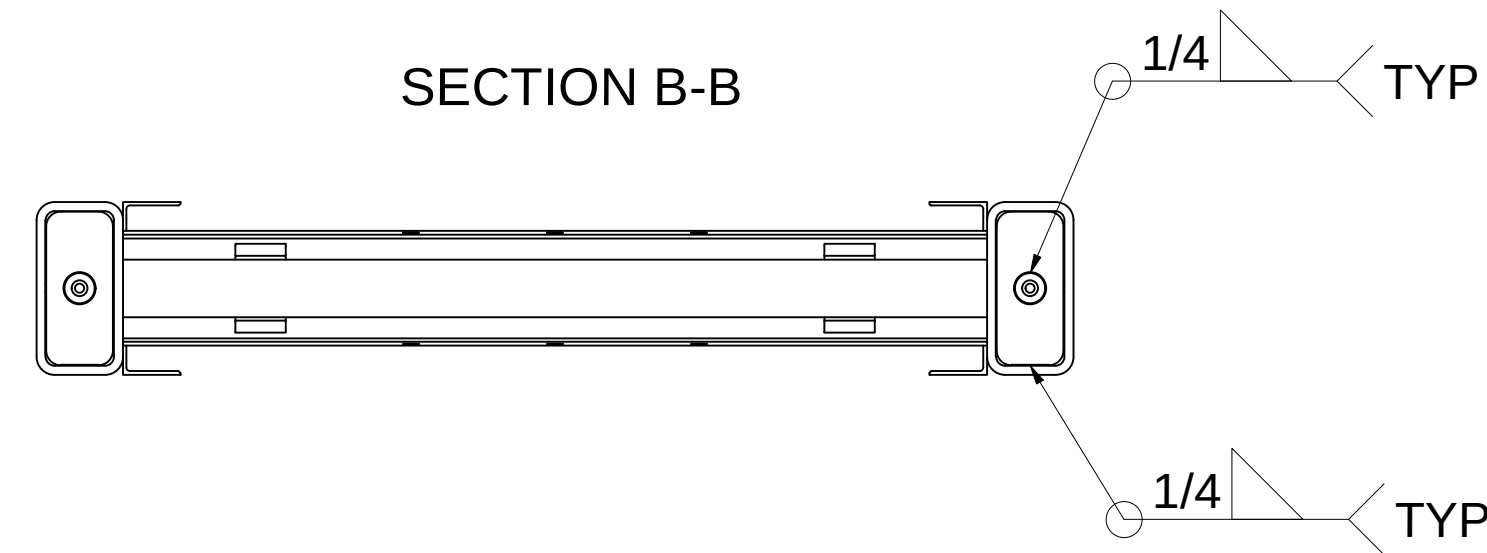
2.000

0.375

5.000

QTY PER ASSEMBLY: 2
MATERIAL: A500C HSS STEEL
APPROX.WEIGHT: 3kgs (7lbs)

IF IN DOUBT ASK



Notes: Remove all sharp edges and burrs unless otherwise stated.

Material: HSS Steel, A36 Steel Plate

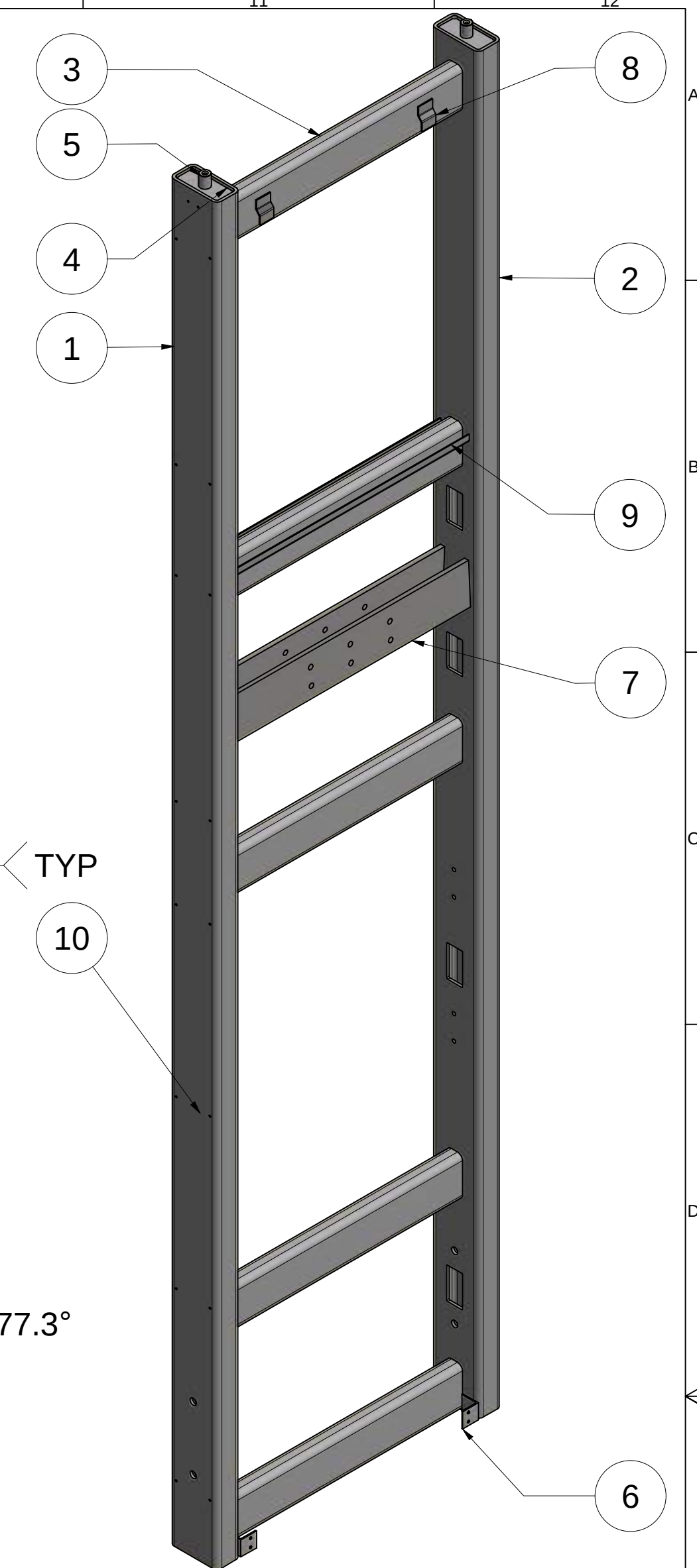
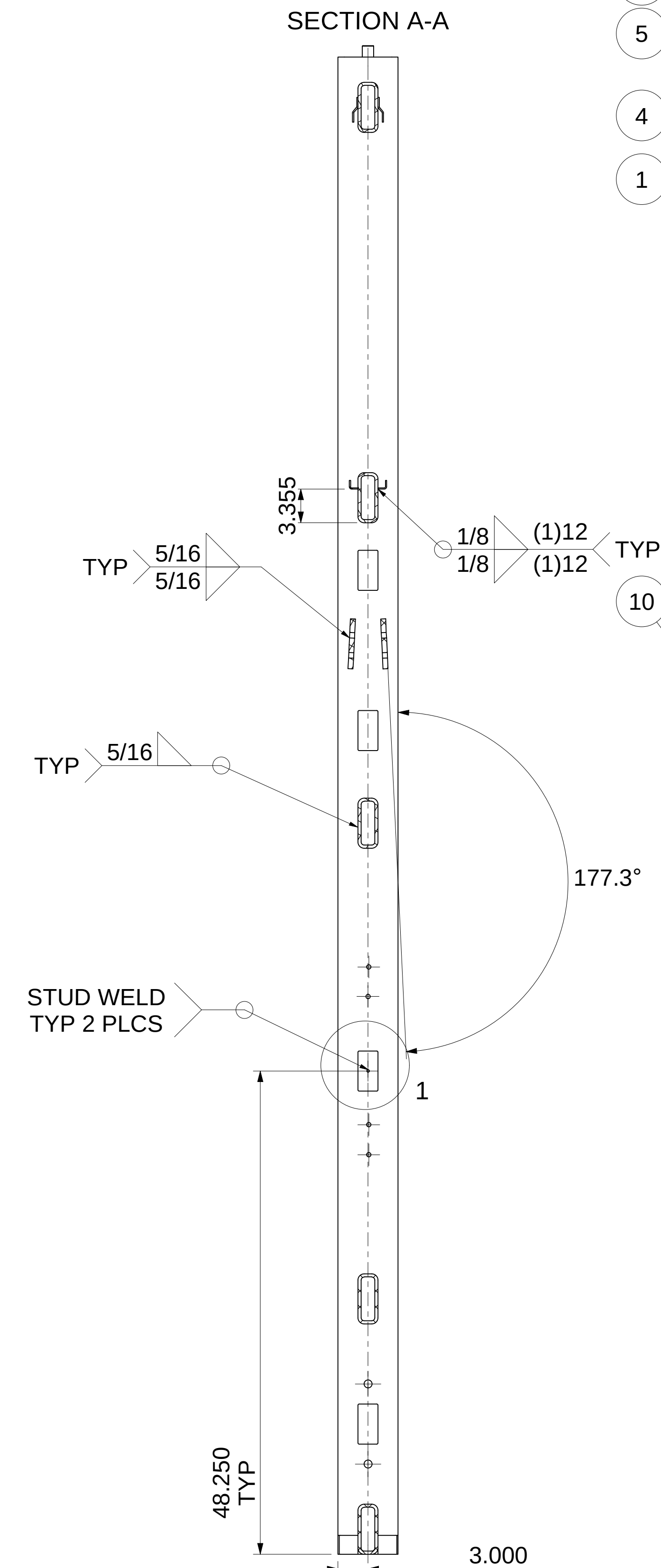
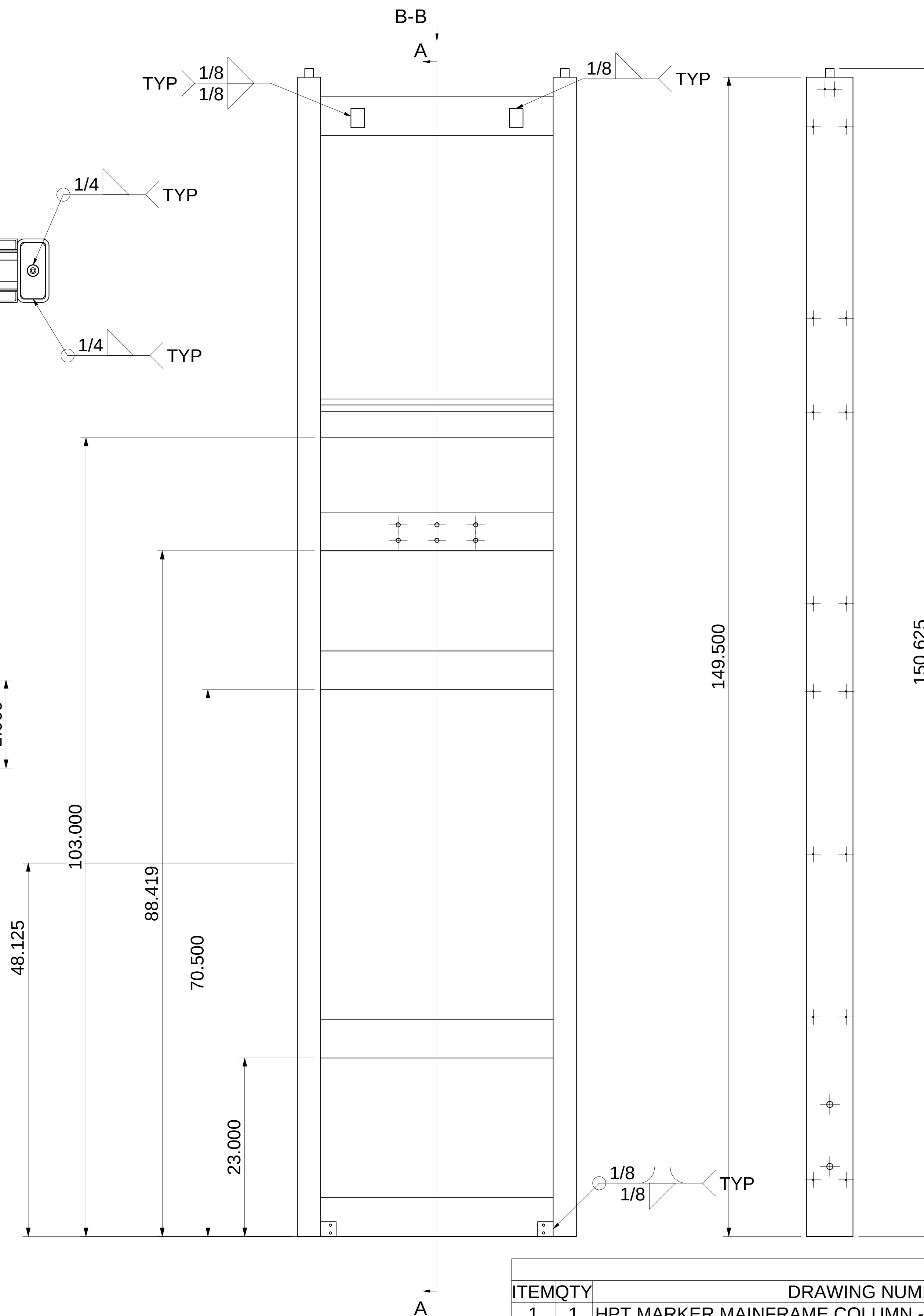
Finish: Assemblies to be galvanized

Clean after galvanizing (i.e. Peaks, Streaks, etc)

Approx. Weight: 625 lbs (284 kgs)

Assemblies Per Marker: 1

Tolerances unless stated otherwise
to be at $\pm 1/32"$



2	CC	12/16/2021	MOVED GROUNDING LUG
1	CC	2021-12-08	CHANGED HANDHOLE SIZE, ADDED 2 GROUNDING LUGS, ADDED ADDITIONAL HANDHOLES
0	CC	11/29/2021	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAIL S

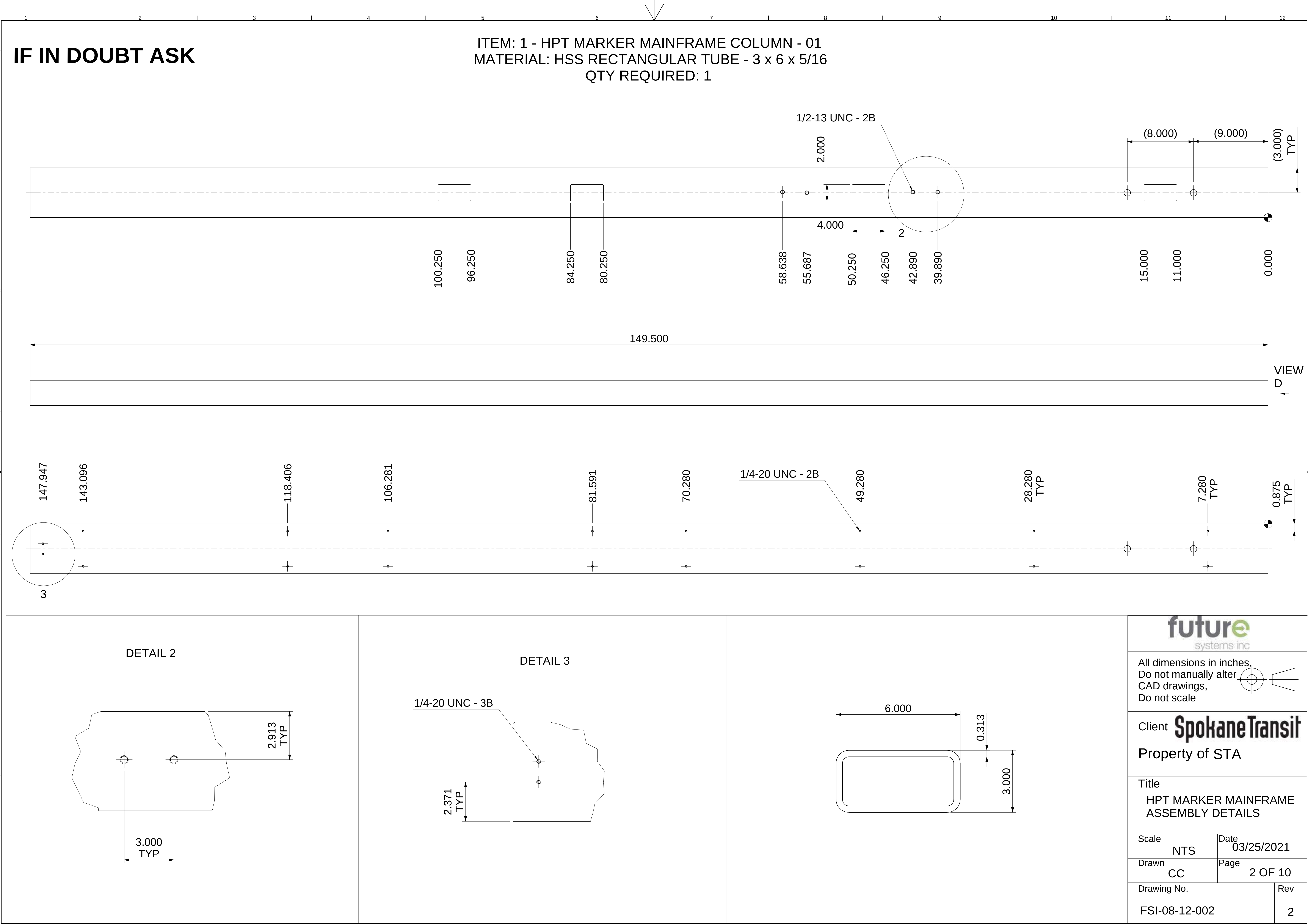
futuree
systems inc

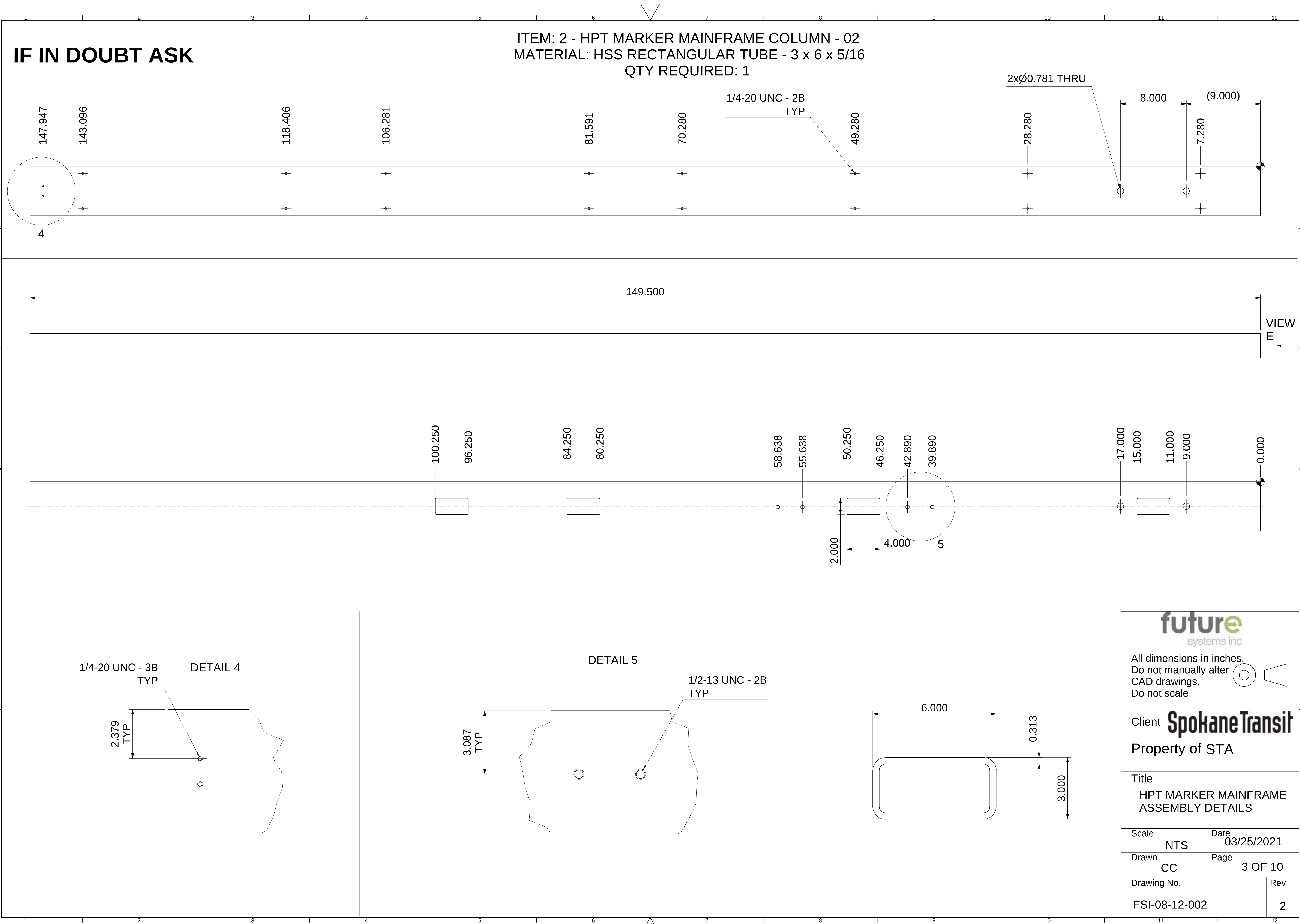
All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale

Client **Spokane Transit**
Property of STA

PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	HPT MARKER MAINFRAME COLUMN - 01
2	1	HPT MARKER MAINFRAME COLUMN - 02
3	5	HPT MARKER MAINFRAME BRACE
4	2	HPT MARKER MAINFRAME LIFT NUT PLATE
5	2	HPT BEACON SPACER
6	4	HPT MARKER MAINFRAME LIFT ANGLE
7	2	MARKER TO CANOPY MOUNTING PLATE
8	4	BRACKET FOR CPD LIGHTING - LED LIGHT PANEL
9	2	BENT BRACKET FOR CPD LIGHTING - LED LIGHT PANEL
10	2	WELD STUD -0.25 UNC - 1 INCH

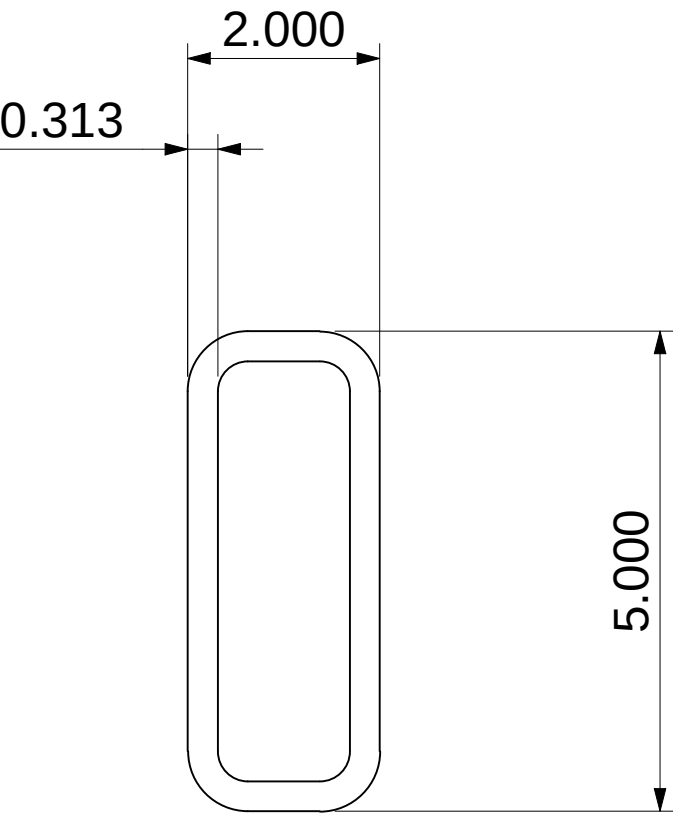
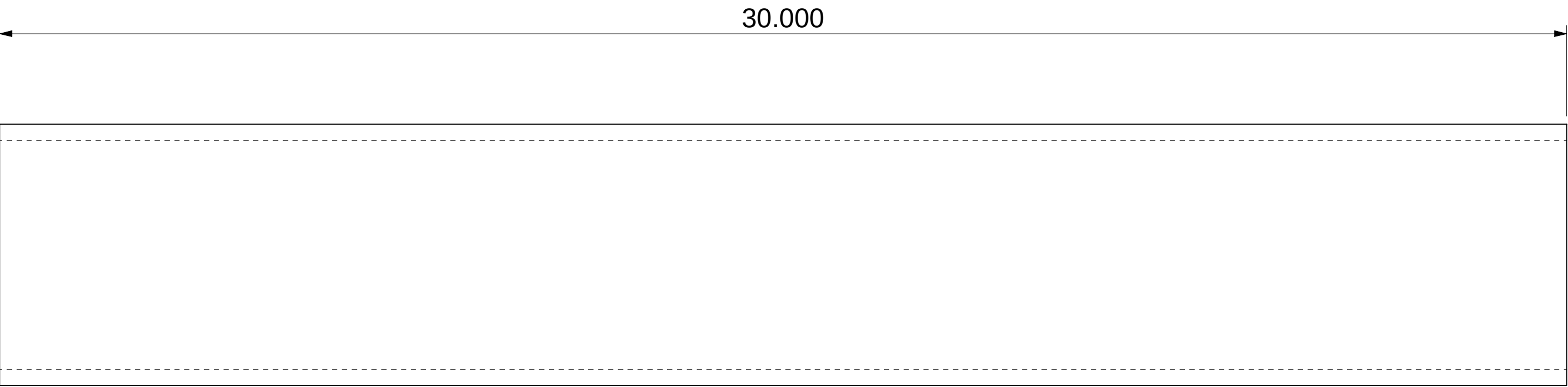
Title		C
HPT MARKER MAINFRAME ASSEMBLY DETAILS		
Scale	NTS	Date
		03/25/2021
Drawn	CC	Page
		1 OF 10
Drawing No.		Rev
FSI-08-12-002		2





IF IN DOUBT ASK

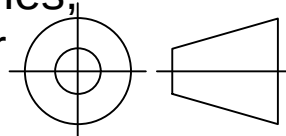
ITEM: 3 - HPT MARKER MAINFRAME BRACE - 01



MATERIAL: HSS RECTANGULAR TUBE - 2 x 5 x 5/16
QTY REQUIRED: 5



All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale



Client **Spokane Transit**
Property of STA

Title
HPT MARKER MAINFRAME
ASSEMBLY DETAILS

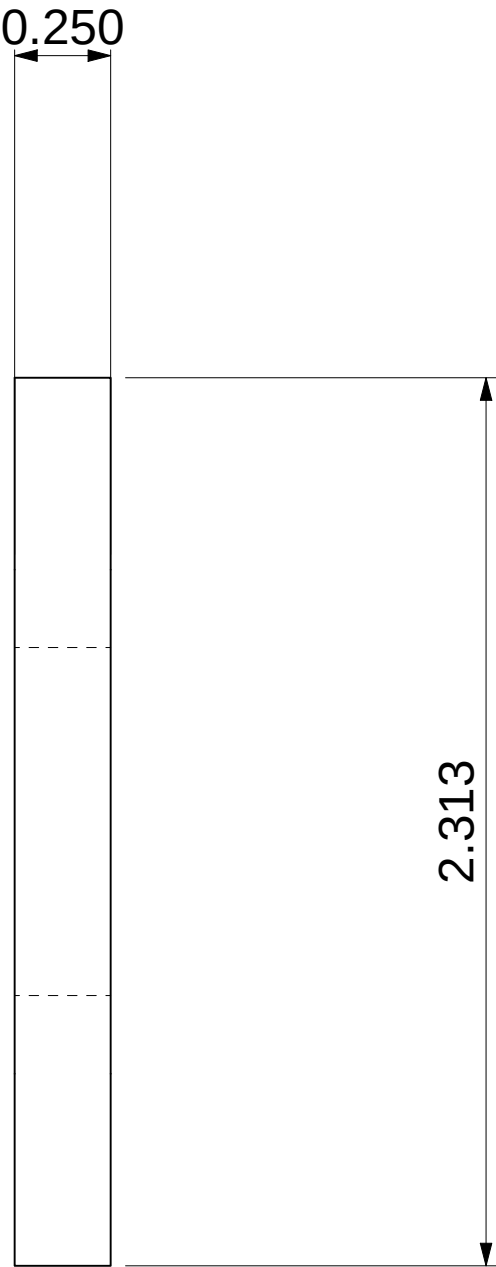
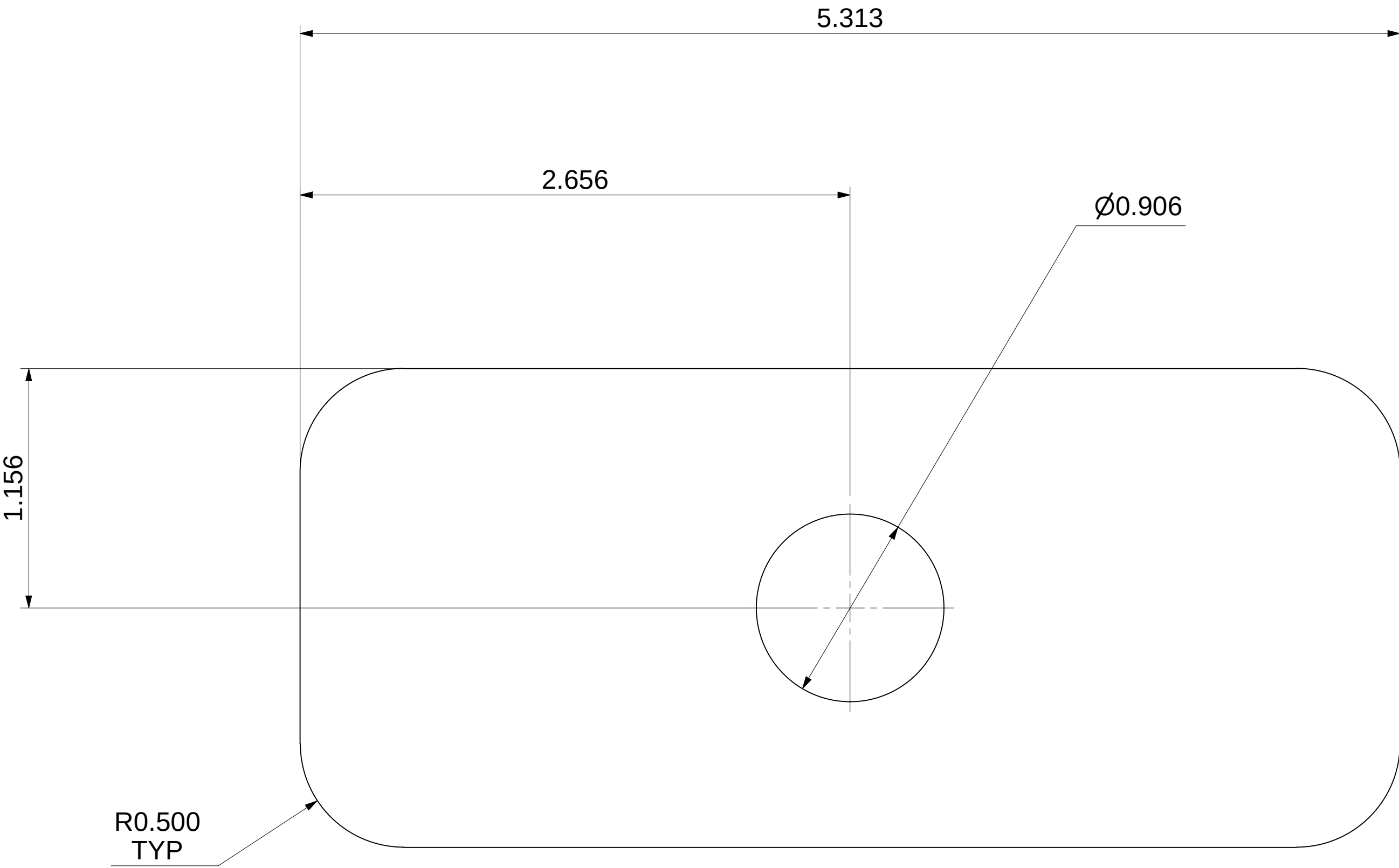
Scale NTS Date 03/25/2021

Drawn CC Page 4 OF 10

Drawing No. FSI-08-12-002 Rev 2

IF IN DOUBT ASK

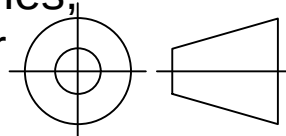
ITEM: 4 - HPT MARKER MAINFRAME LIFT NUT PLATE - 01



MATERIAL: A36 STEEL FLAT BAR
QTY REQUIRED: 2

future
systems inc

All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale



Client **Spokane Transit**
Property of STA

Title
HPT MARKER MAINFRAME
ASSEMBLY DETAILS

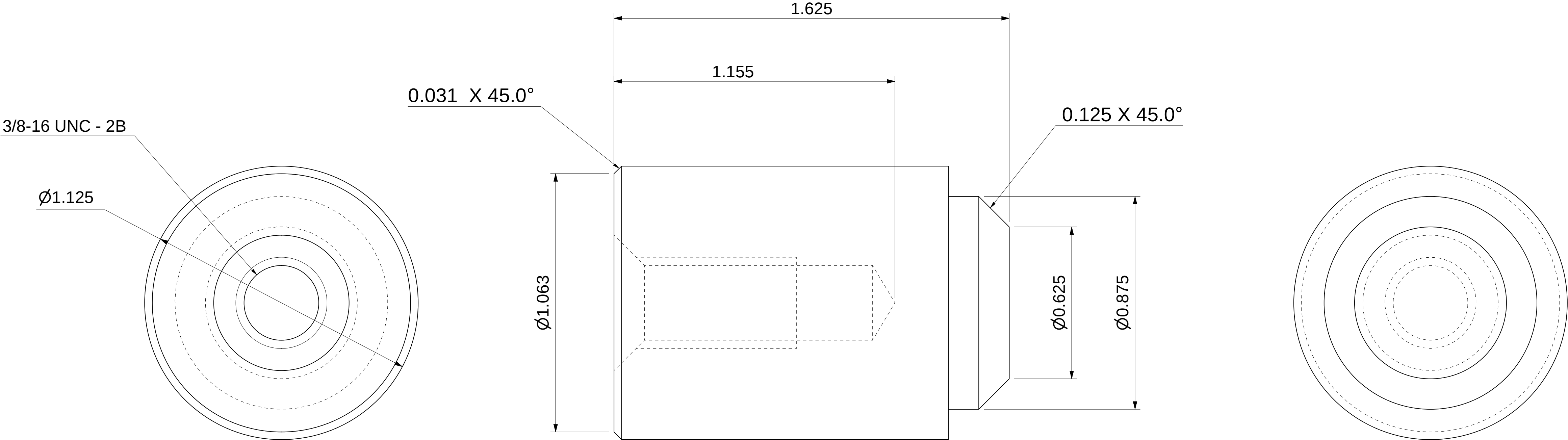
Scale NTS Date 03/25/2021

Drawn CC Page 5 OF 10

Drawing No. FSI-08-12-002 Rev 2

IF IN DOUBT ASK

ITEM: 5 - HPT MARKER BEACON SPACER



MATERIAL: A36 STEEL ROUND BAR
QTY REQUIRED: 2

All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale

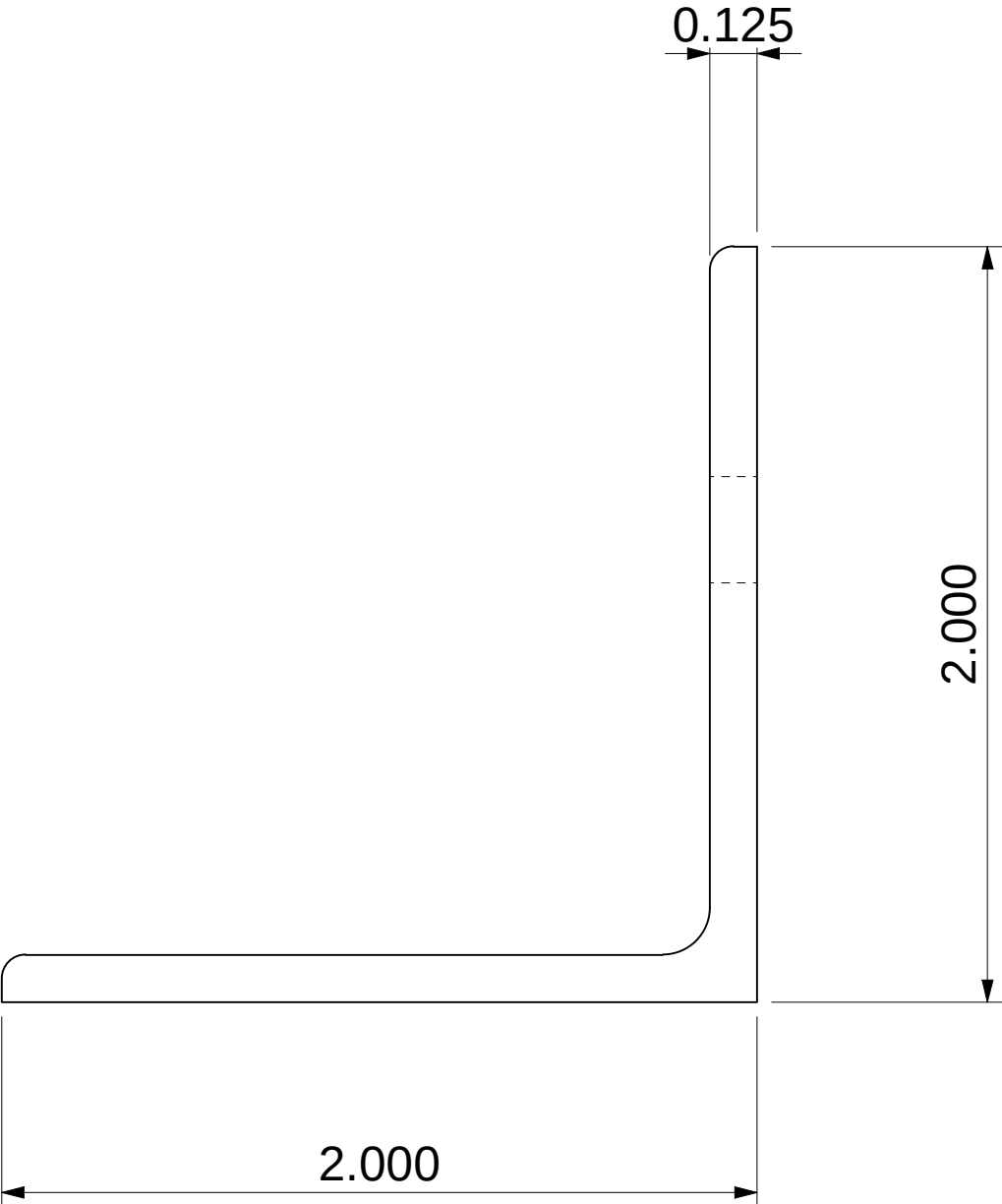
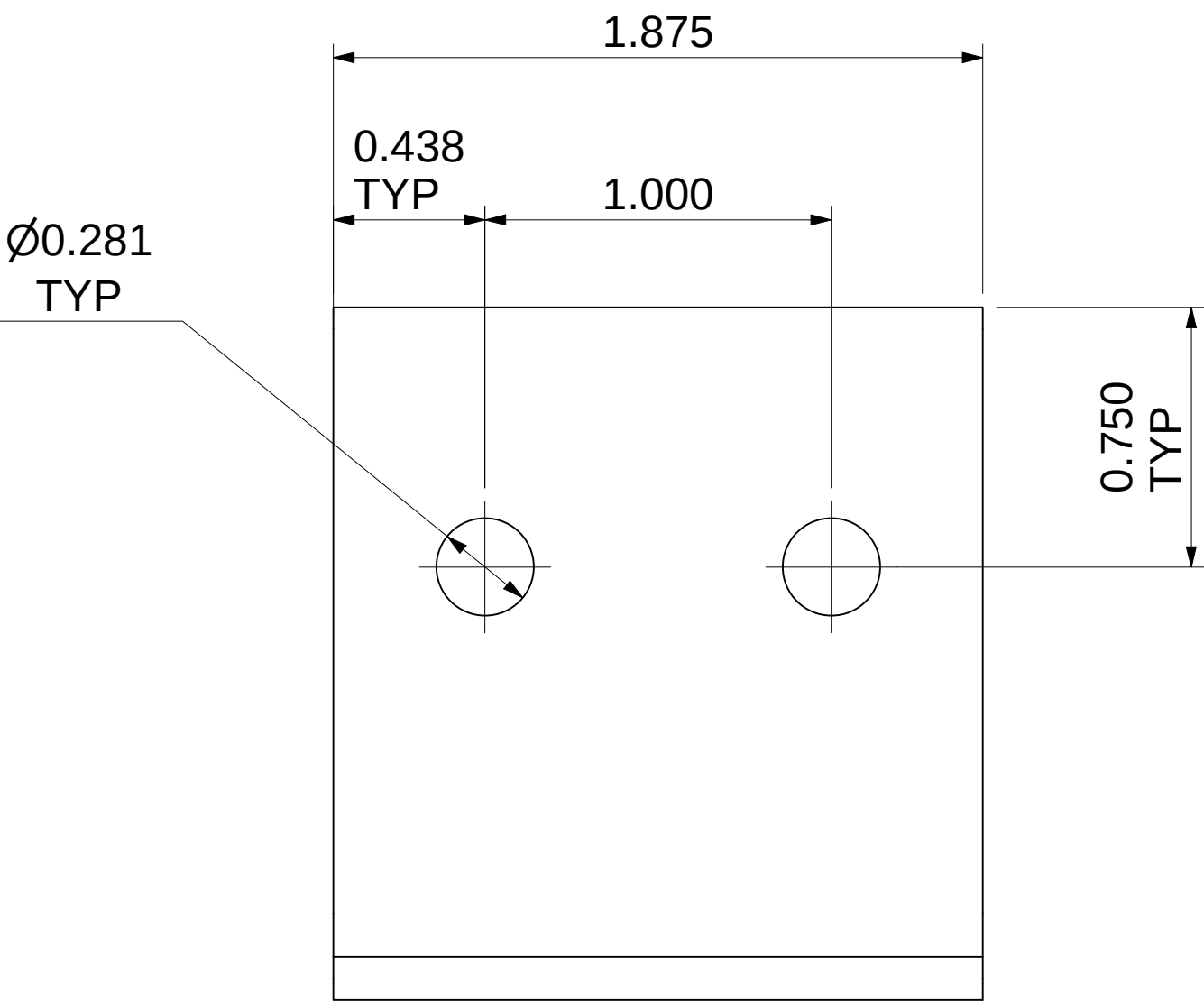
Client **Spokane Transit**
Property of STA

Title
HPT MARKER MAINFRAME
ASSEMBLY DETAILS

Scale NTS	Date 03/25/2021
Drawn CC	Page 6 OF 10
Drawing No. FSI-08-12-002	Rev 2

IF IN DOUBT ASK

ITEM: 6 - HPT MARKER MAINFRAME LIFT ANGLES

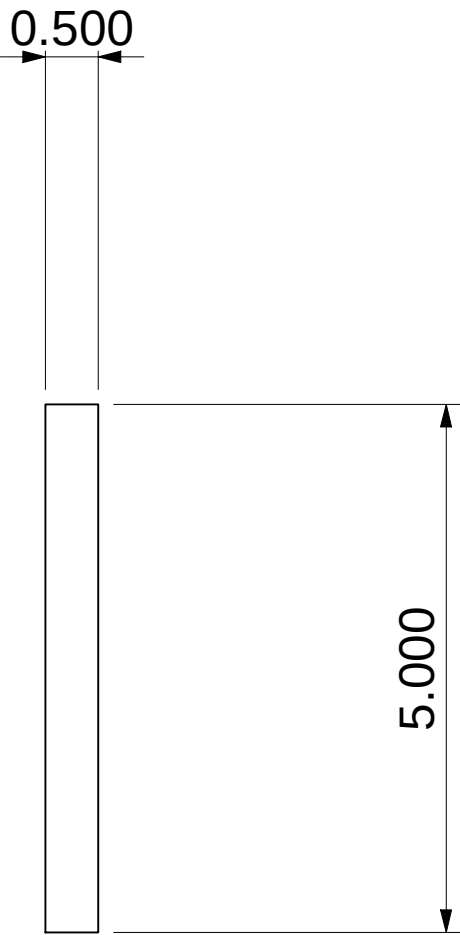
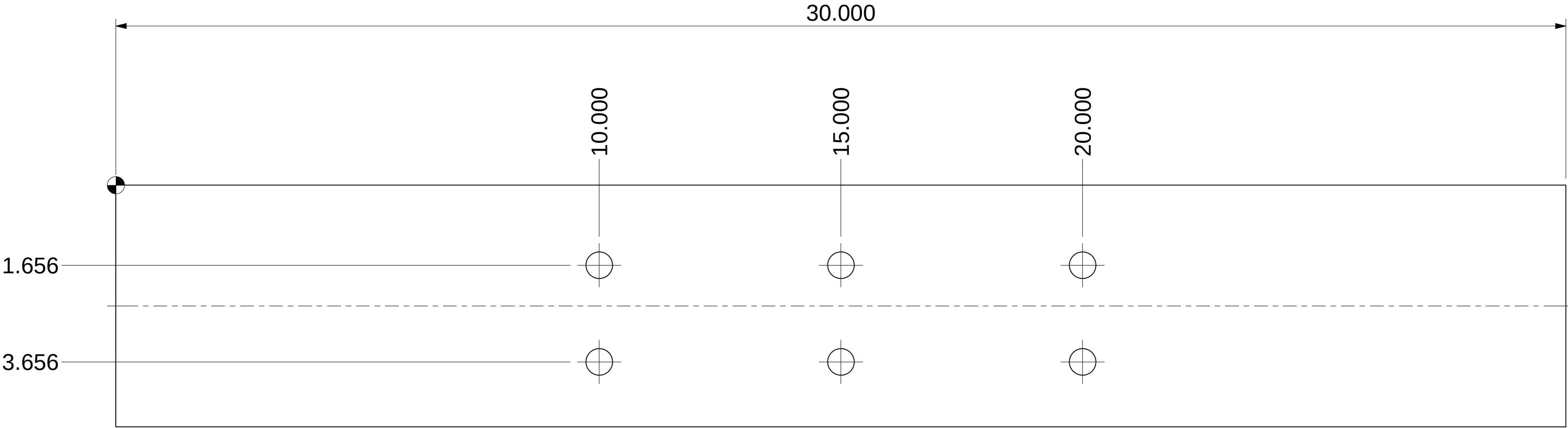


MATERIAL: A36 STEEL ANGLE
QTY REQUIRED: 4

All dimensions in inches, Do not manually alter CAD drawings, Do not scale	
Client	
Property of STA	
Title HPT MARKER MAINFRAME ASSEMBLY DETAILS	
Scale NTS	Date 03/25/2021
Drawn CC	Page 7 OF 10
Drawing No. FSI-08-12-002	Rev 2

IF IN DOUBT ASK

ITEM: 7 - MARKER TO CANOPY MOUNTING PLATE



MATERIAL: A36 STEEL PLATE
QTY REQUIRED: 2

All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale

Client

Spokane Transit

Property of STA

Title

HPT MARKER MAINFRAME
ASSEMBLY DETAILS

Scale

NTS

Date

03/25/2021

Drawn

CC

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Drawing No.

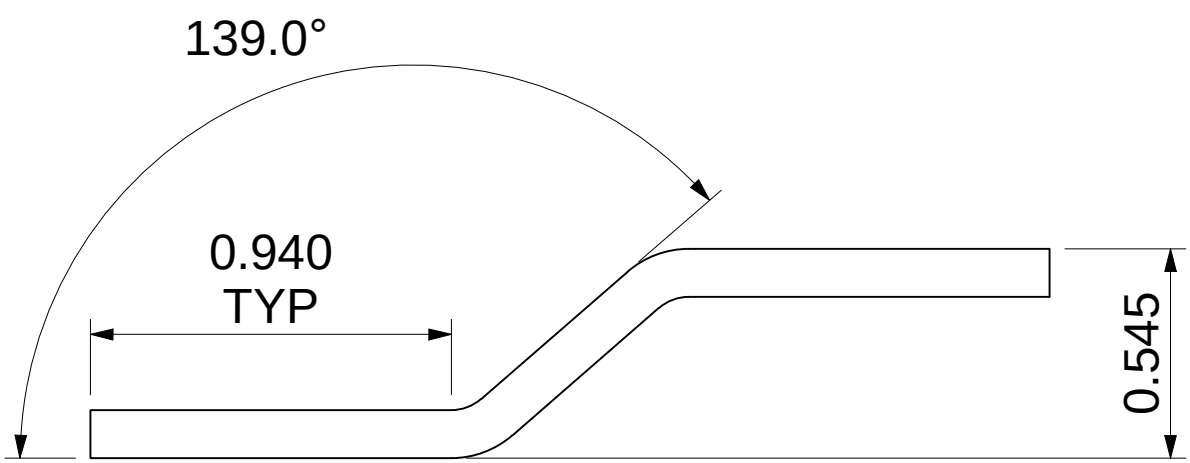
FSI-08-12-002

Rev

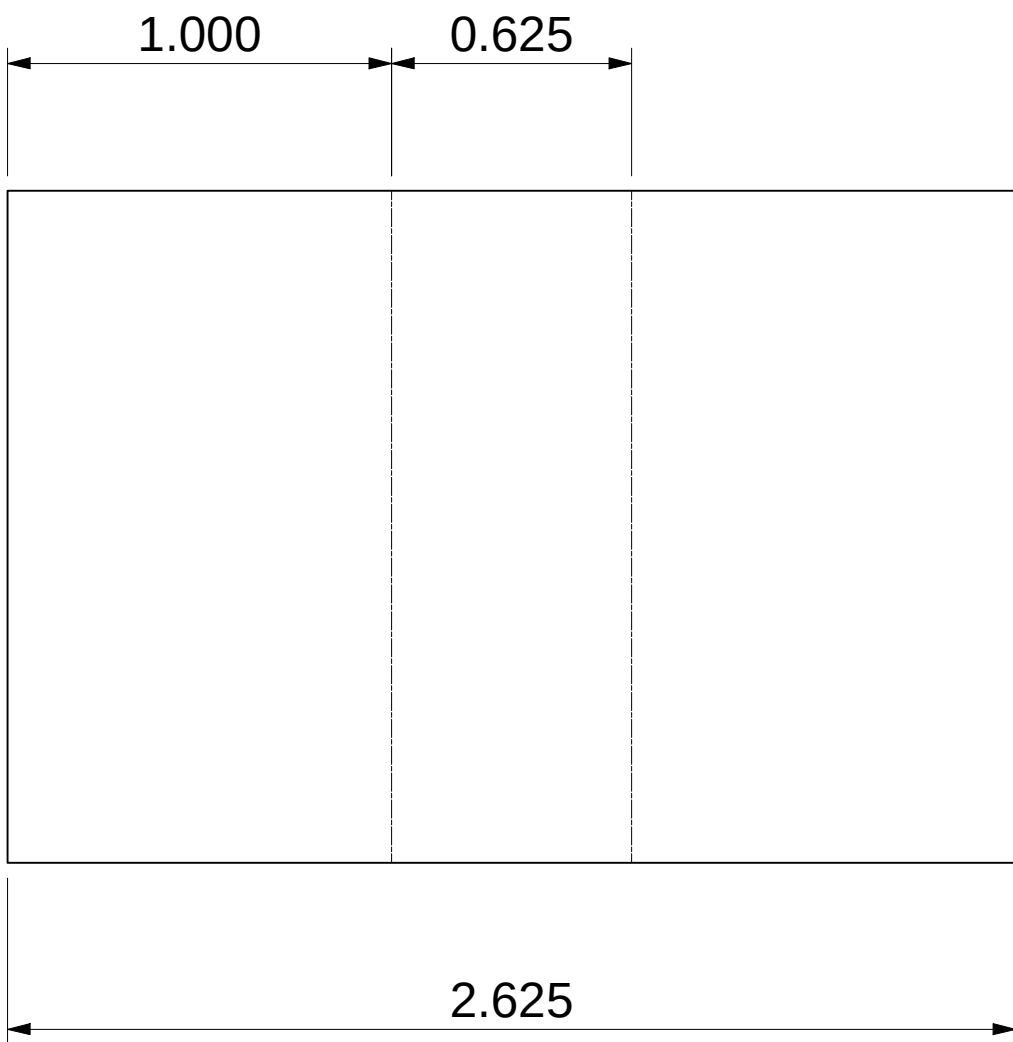
2

IF IN DOUBT ASK

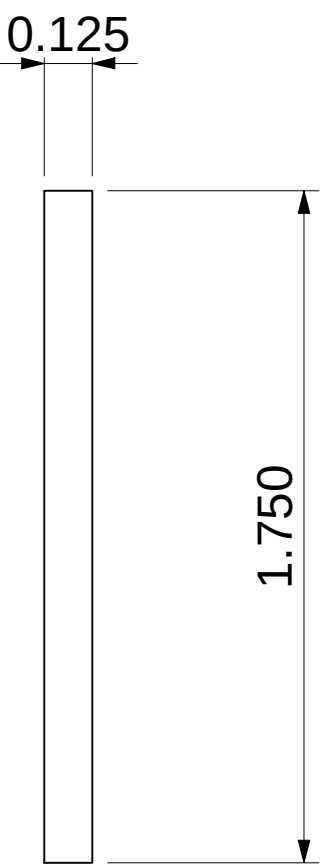
ITEM: 8 - BRACKET FOR CPD LIGHTING
LED LIGHT PANEL



BENT PART



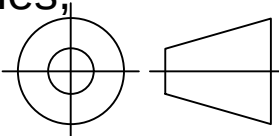
FLAT PATTERN



MATERIAL: A36 STEEL PLATE
QTY REQUIRED: 4

future
systems inc

All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale



Client **Spokane Transit**
Property of STA

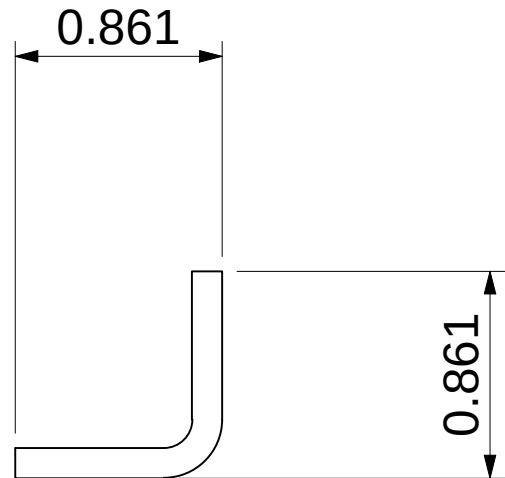
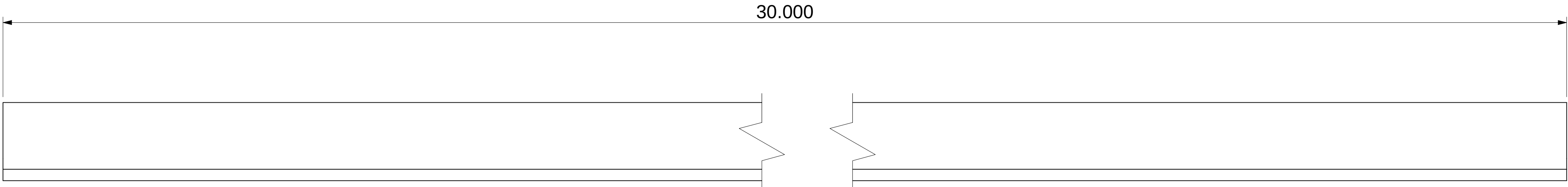
Title
HPT MARKER MAINFRAME
ASSEMBLY DETAILS

Scale NTS	Date 03/25/2021
Drawn CC	Page 9 OF 10

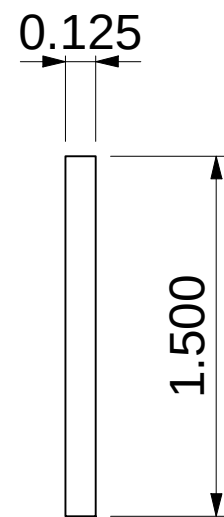
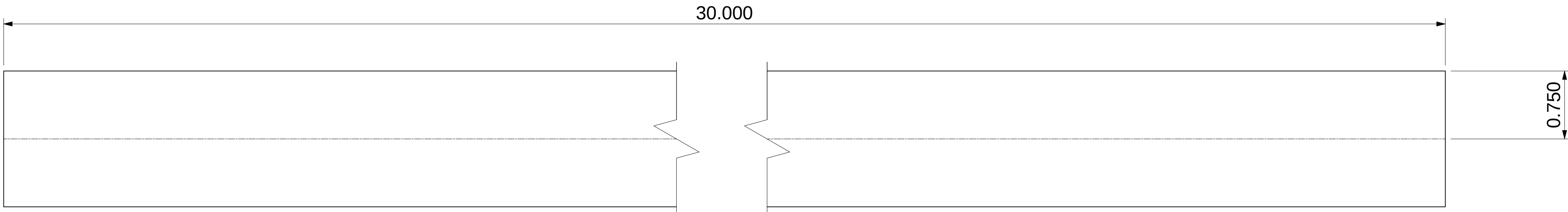
Drawing No. FSI-08-12-002	Rev 2

IF IN DOUBT ASK

ITEM: 8 - BENT BRACKET FOR CPD LIGHTING
LED LIGHT PANEL



BENT PART

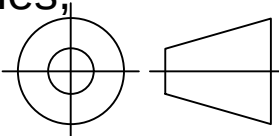


FLAT PATTERN

MATERIAL: A36 STEEL PLATE
QTY REQUIRED: 2



All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale



Client **Spokane Transit**
Property of STA

Title
HPT MARKER MAINFRAME
ASSEMBLY DETAILS

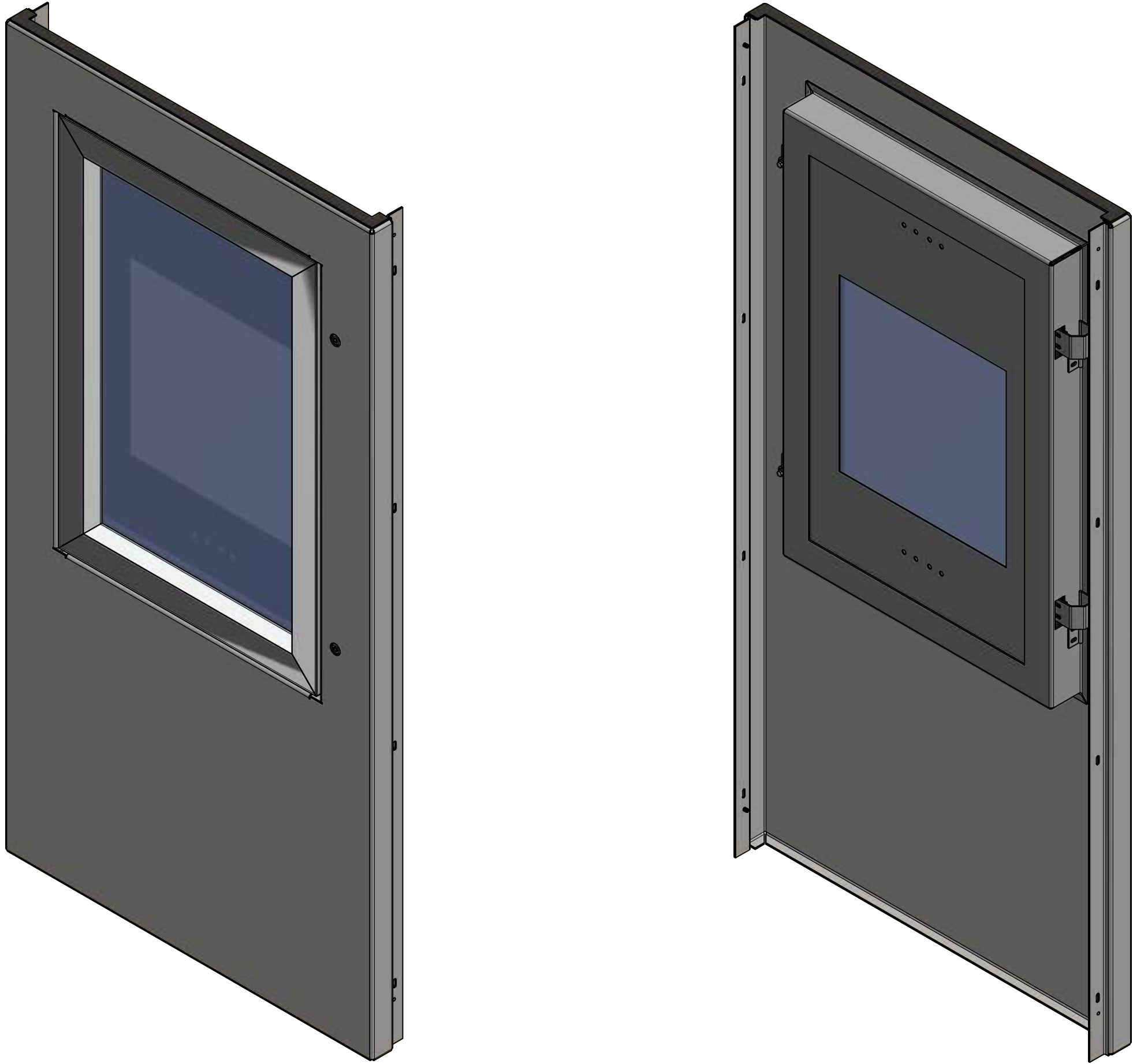
Scale NTS Date 03/25/2021

Drawn CC Page 10 OF 10

Drawing No. FSI-08-12-002 Rev 2

IF IN DOUBT ASK

PARTS LIST			
ITEM	QTY	DRAWING NUMBER	DESCRIPTION
1	4	PEM R PRESS-IN STUD	93580A625 - McMaster-Carr or Equivalent
2	1	HPT MARKER MAP CLADDING PANEL - 01	SEE SHEET 4 AND 5
3	1	HPT MARKER MAP RECESS PANEL - 02	SEE SHEET 6 AND 7
4	1	HPT MARKER SEAL - 01	PROVIDED BY OTHERS
5	2	TIMETABLE DOOR HINGE WELD (CONCEALED HINGE PART 3)	SEE SHEET 8
6	2	B468 04 005	HINGE BLOCK
7	1	TIMETABLE DOOR FRAME WELD	REF DWG# FSI-08-12-301 FOR FRAME ASSEMBLY/WELDMENT
9	1	SEAL DOOR GLAZING	10x3 CLOSED CELL NEPPRENE FOAM STRIP SELF ADHESIVE FACES TO BOTH SIDES
10	2	MAP BOX HINGE LEAF (CONCEALED HINGE PART 2)	SEE SHEET 9
11	2	MAP BOX HINGE PIN	SEE SHEET 10
12	2	MAP BOX HINGE LEAF (CONCEALED HINGE PART 1)	SEE SHEET 11
13	2	1-4 UNC x 2in STAINLESS STEEL TORX FLAT HEAD SCREWS	92703A420
14	19	1-4 UNC TYPE 18-8 STAINLESS STEEL HEX NUT	91845A029
15	2	HINGE BACKING PLATE (B468 03 004)	SEE SHEET 12
16	4	DIN 7337 - A4 x 10	Blind Rivet
17	1	BACK BOX	SEE SHEET 13 AND 14
18	1	SEAL BACK BOX	6x3 CLOSED CELL NEPPRENE FOAM STRIP SELF ADHESIVE FACES TO BOTH SIDES
19	1	HINGE PIN LONG (B468 04 008)	SEE SHEET 15
20	2	MAP BOX HINGE LEAF	SEE SHEET 16
21	1	HINGE PIN SHORT (B468 04 009)	SEE SHEET 17
22	2	MAP CATCH CAP	SEE SHEET 18
23	2	1-4 UNC x 1.25 18-8 SS BUTTON HEAD HEX DRIVE SCREW	92949A542 - McMaster-Carr or Equivalent
24	2	MAP LOCK KEEP	SEE SHEET 19
25	8	1-4 TYPE 18-8 STAINLESS STEEL FLAT WASHER	92141A029 - McMaster-Carr or Equivalent
26	8	1-4 UNC x 0.625 18-8 STAINLESS STEEL FLAT-HEAD SCKT CAP SCREW	92210A539 - McMaster-Carr or Equivalent
27	2	MAP LOCK HOLDER	SEE SHEET 20
28	2	HPT MARKER SEAL	PROVIDED BY OTHERS
29	2	HPT MARKER SEAL - 06	PROVIDED BY OTHERS
30	2	AISC HSS - 2 x 2 x 1/8 - 0.8 - LOCK COVER	SEE SHEET 21
31	2	HOLD - UP DISPLAY RAILS	GHENT (P/N H24-6)
32	4	FOAM STRIP FOR MAP HOLDER	1296N13 - MCMaster-CARR OR EQUIVALENT
33	2	QTran LED Strip (4000K DMP [IP54])	Supplied by Others
34	2	QTran SLIM Aluminum Extrusion (Black SST DF SW)	Supplied by Others
35	2	Circular-Keyway Cam Lock	1682A55 - McMaster-Carr or Equivalent
36	2	MAP CASE CAM LOCK SPACER	SEE SHEET 22
37	2	MAP CASE CAM LOCK LATCH	SEE SHEET 23



Notes: Remove all sharp edges and burrs unless otherwise stated.

Grind all welds flush

To be pre-assembled without any electrical. (i.e. Wiring, LED's, etc)

Q Tran product specs provided by IBI

Material: Stainless Steel Sheet Metal and Aluminum Extrusion

Finish: Raw Stainless Steel Assemblies and to be painted as per general finishing notes

Approx. Weight: 37kgs (82lbs)

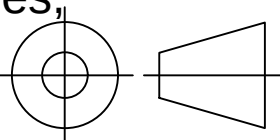
Assemblies Required: 1

Tolerances unless stated otherwise to be at ± 1/32"

2	CC	2021-12-30	CHANGED MAP CASING DOOR ASSEMBLY
1	CC	12/16/2021	CHANGED CAM LOCK/LATCH
0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS



All dimensions in inches.
Do not manually alter
CAD drawings,
Do not scale



Client **Spokane Transit**
Property of STA

Title
HPT MARKER MAP CASING
PANEL ASSEMBLY DETAILS

Scale
NTS

Date
12/20/2020

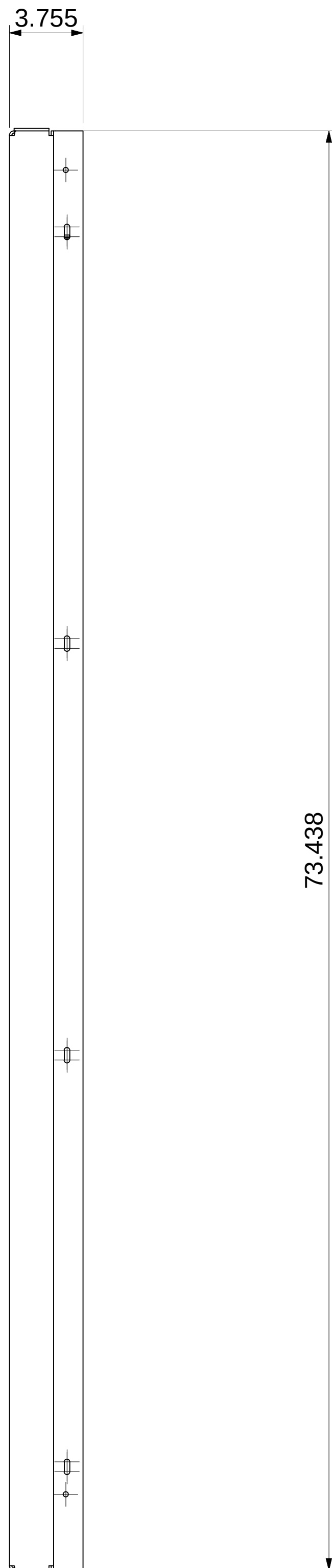
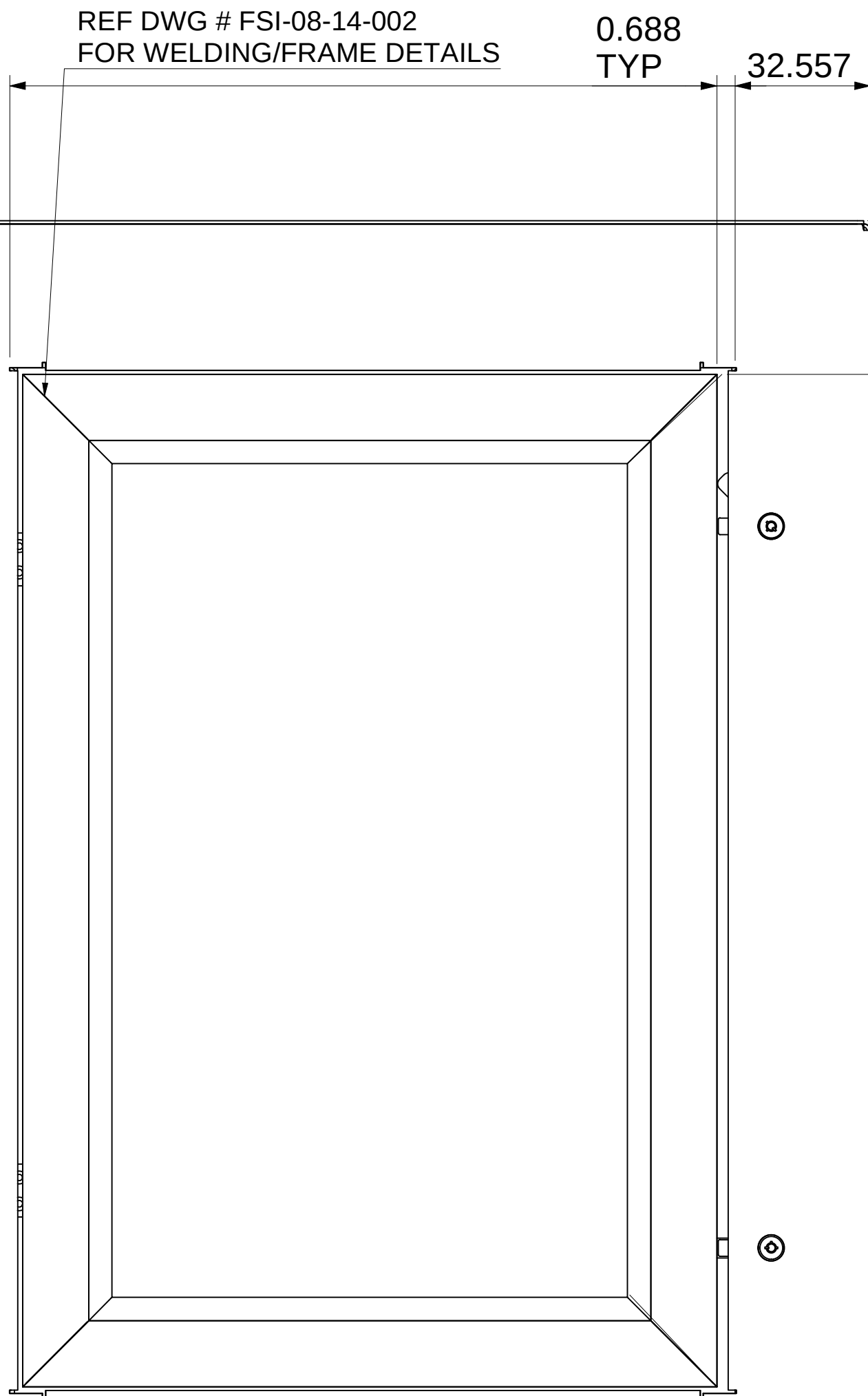
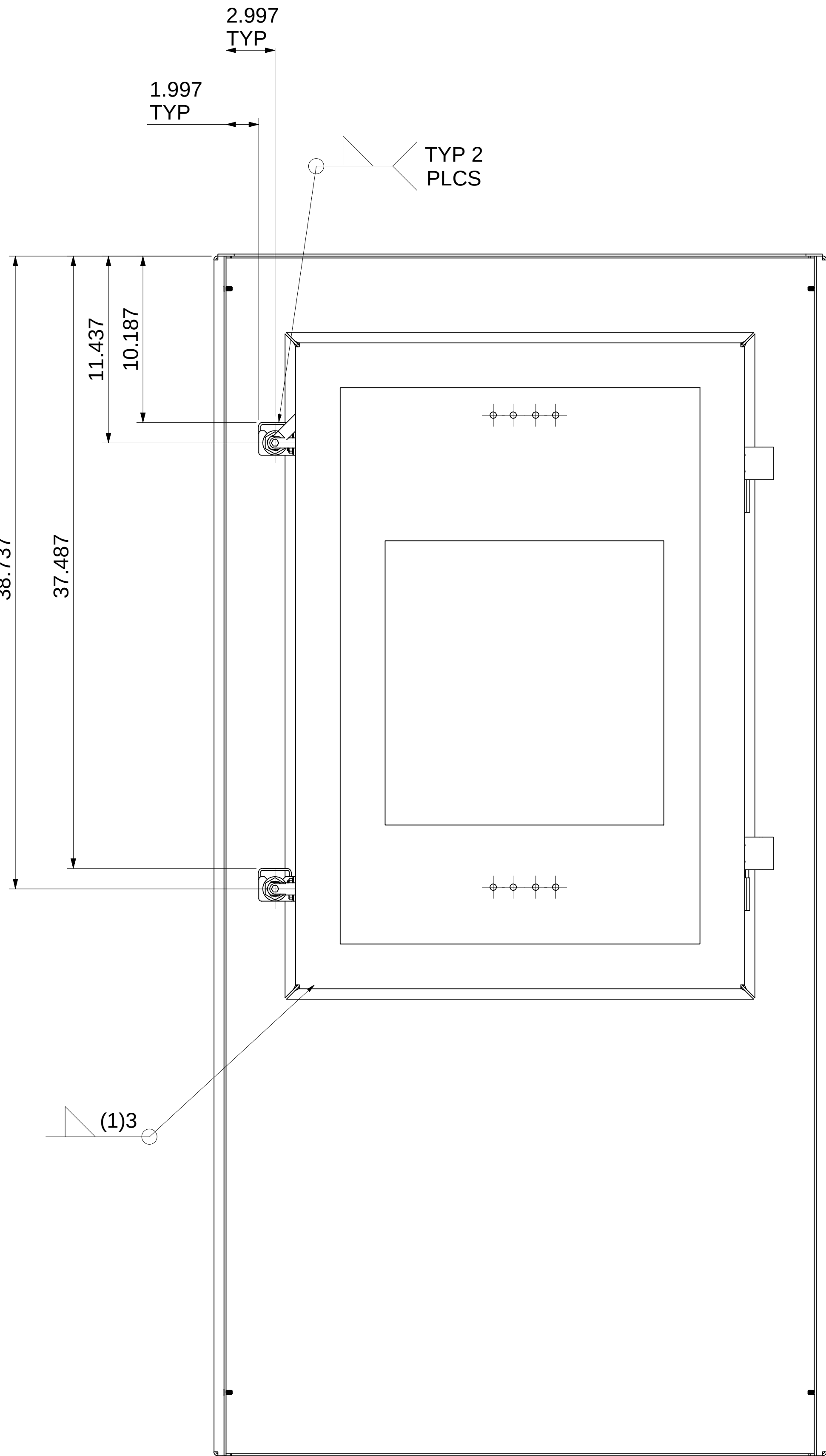
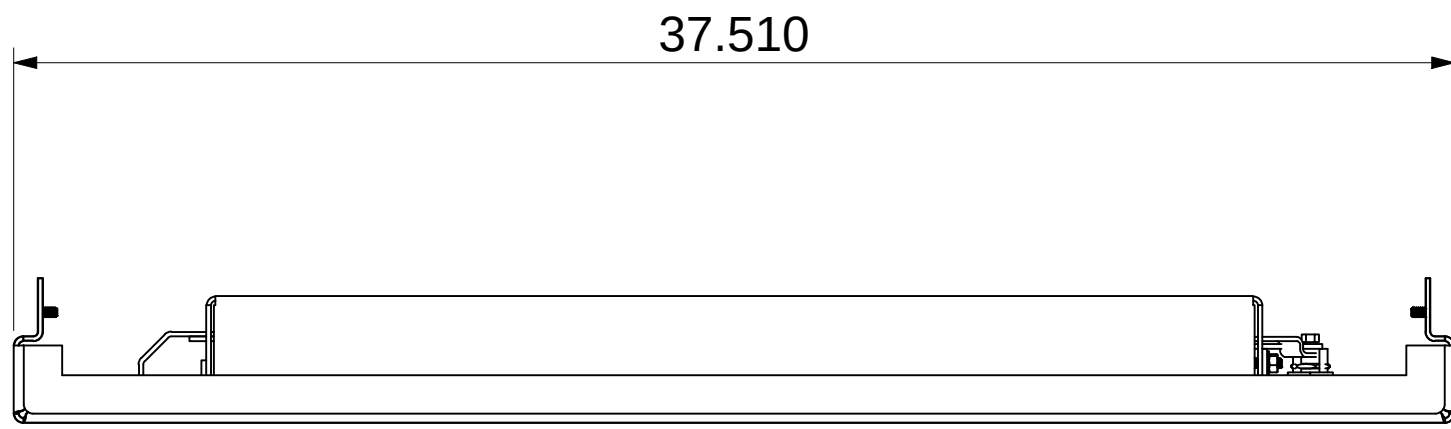
Drawn
CC

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Drawing No.
FSI-08-12-003

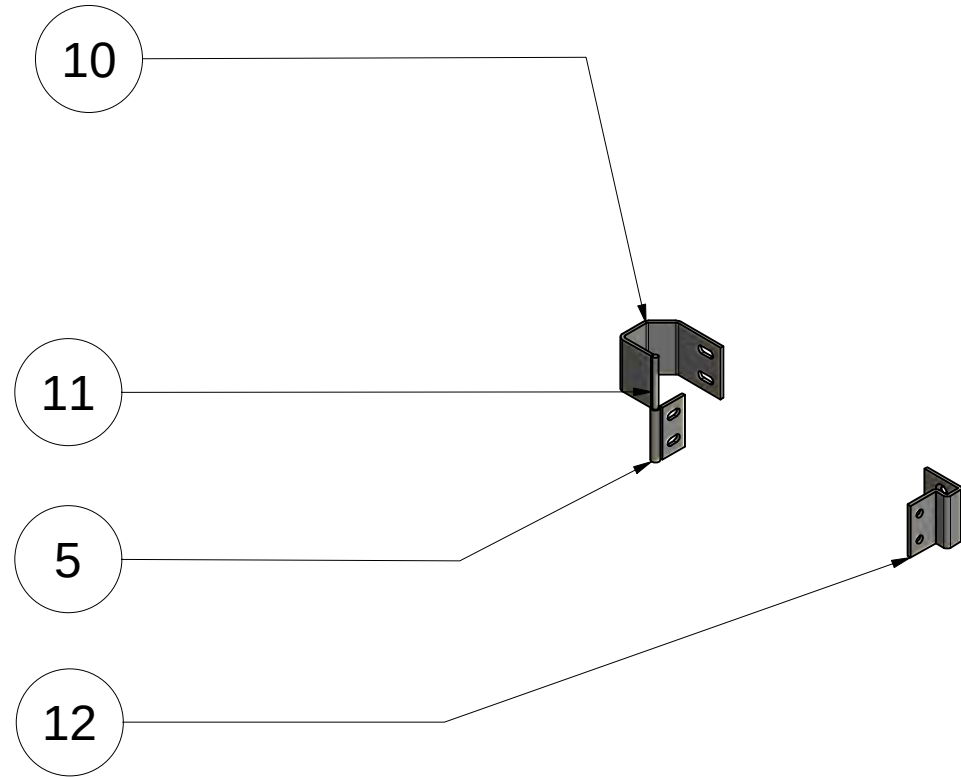
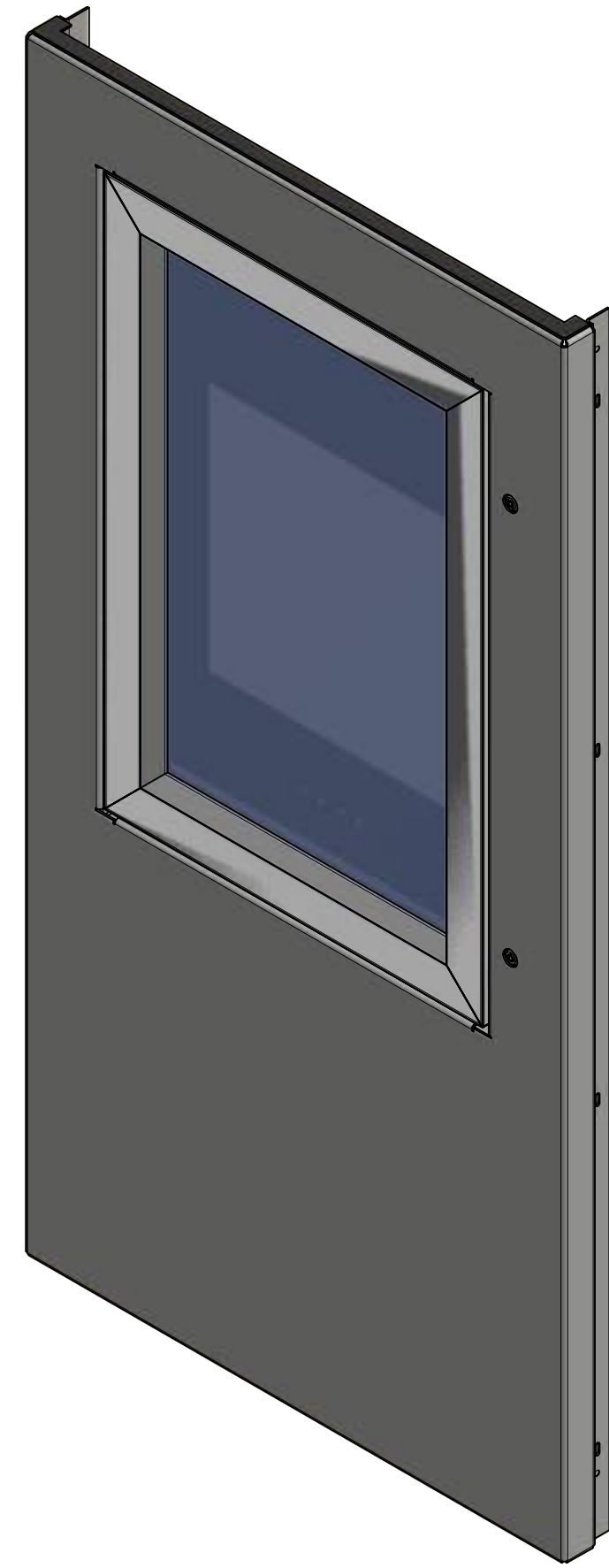
Rev
2

IF IN DOUBT ASK



	
All dimensions in inches. Do not manually alter CAD drawings, Do not scale	
Client Spokane Transit Property of STA	
Title HPT MARKER MAP CASING PANEL ASSEMBLY DETAILS	
Scale NTS	Date 12/20/2020
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Drawing No. FSI-08-12-003	Rev 2

IF IN DOUBT ASK



4

26

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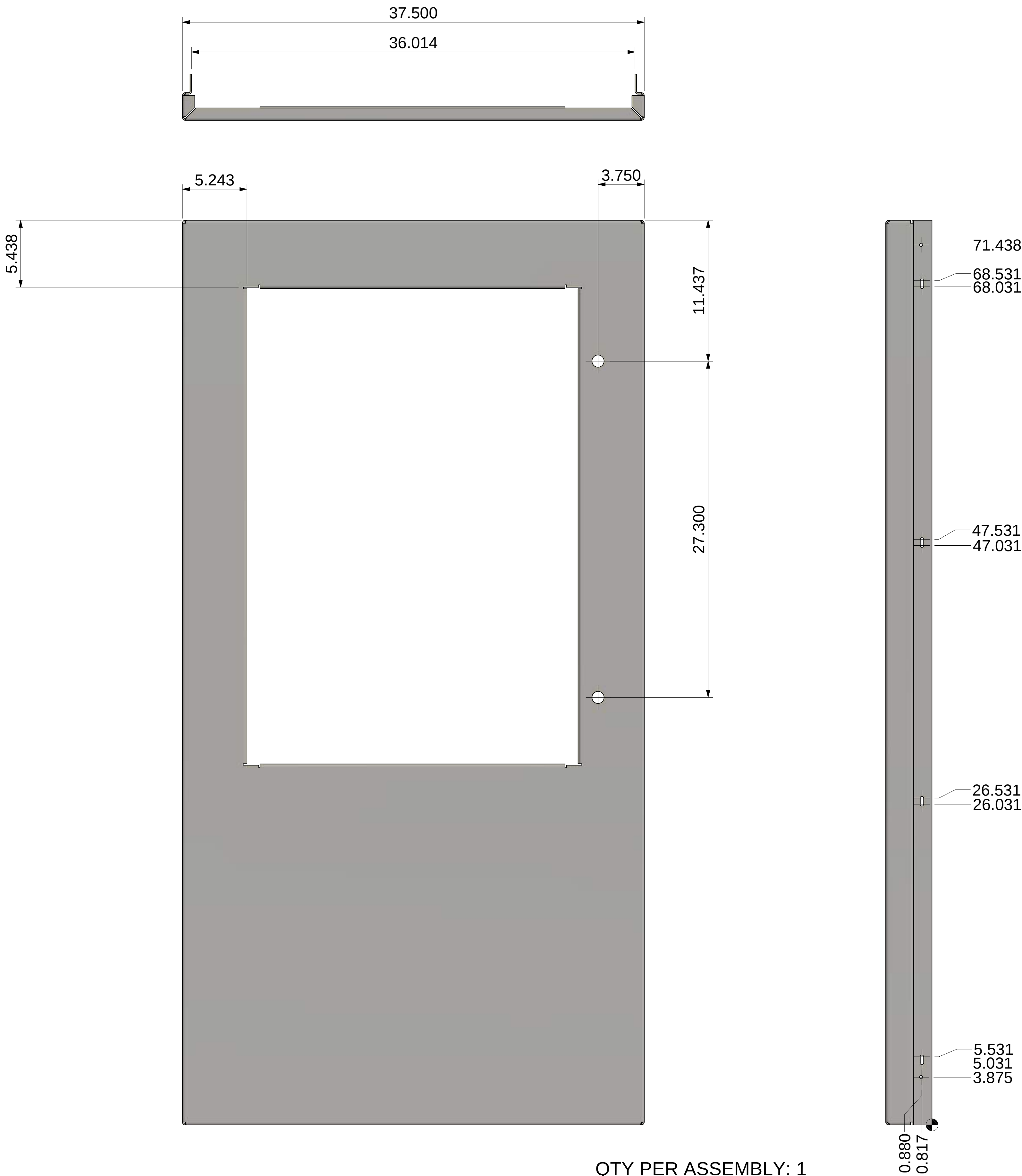
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7

All dimensions in inches. Do not manually alter CAD drawings, Do not scale	
Client Spokane Transit Property of STA	
Title HPT MARKER MAP CASING PANEL ASSEMBLY DETAILS	
Scale NTS	Date 12/20/2020
Drawn CC	Page 3 OF 23
Drawing No. FSI-08-12-003	Rev 2

IF IN DOUBT ASK

ITEM: 2 - HPT MARKER MAP
CLADDING PANEL

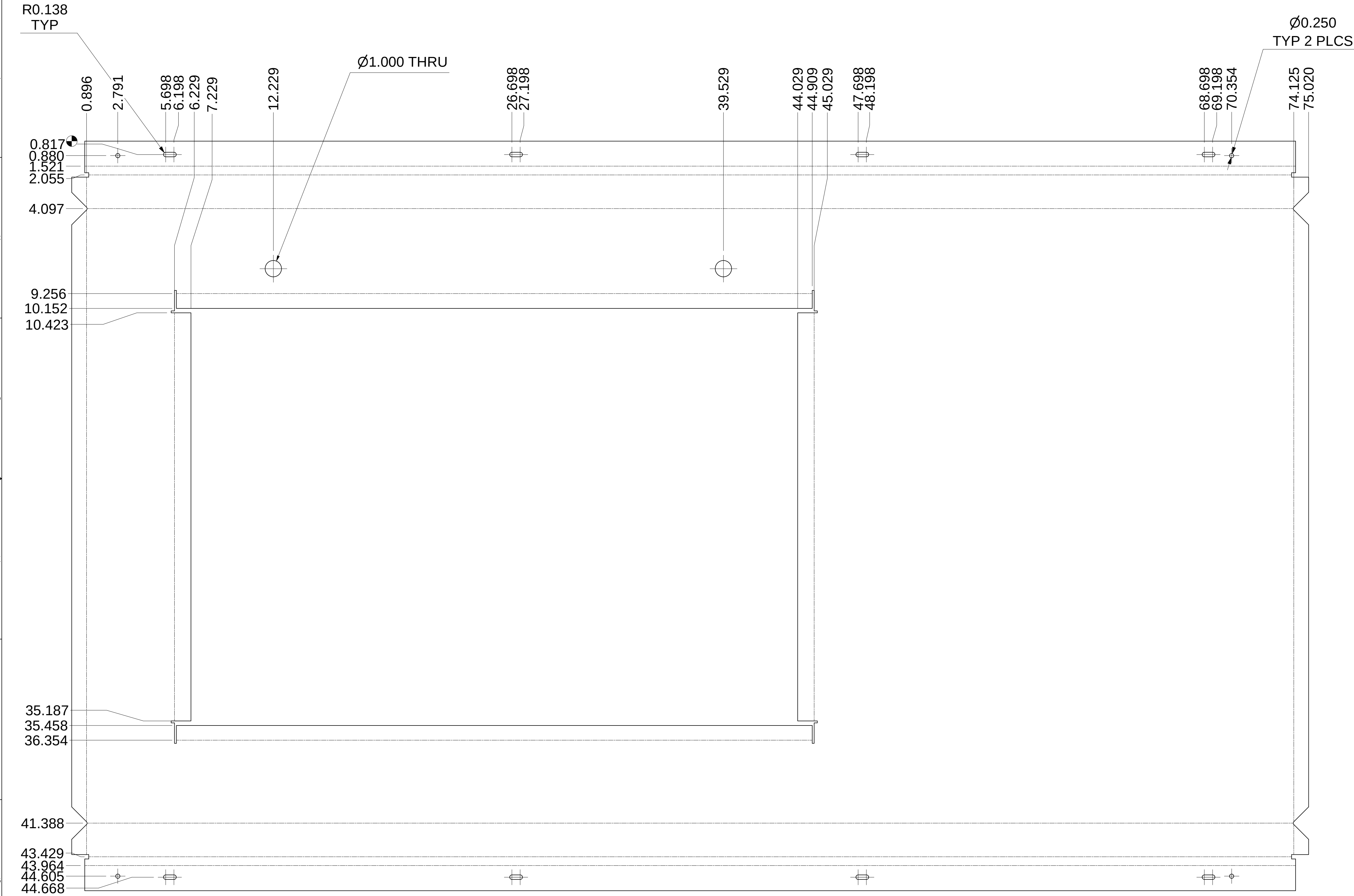


QTY PER ASSEMBLY: 1
MATERIAL: 11 GAUGE STAINLESS STEEL
*SEE SHEET 5 FOR FLAT PATTERN DETAILS

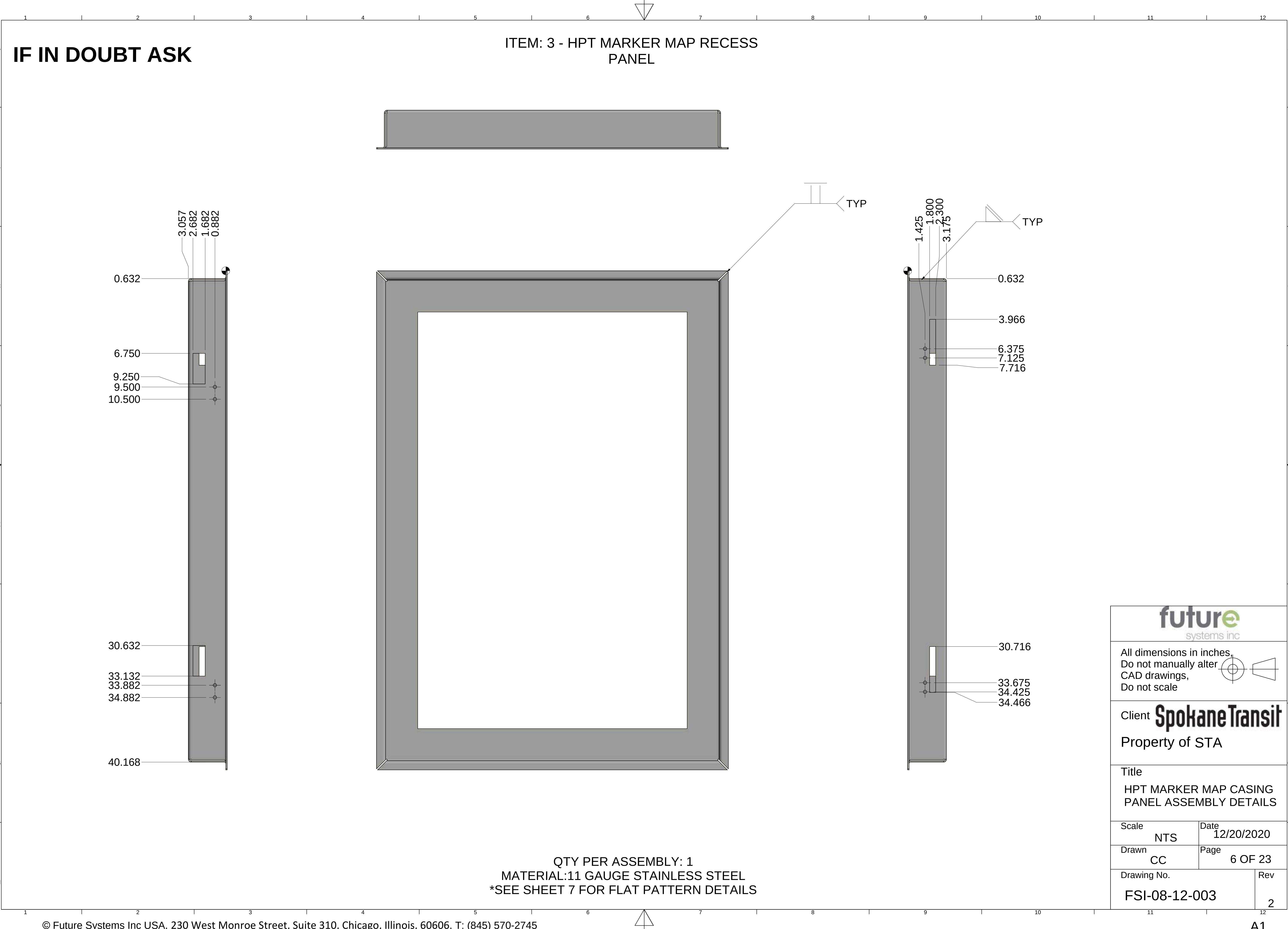
future systems inc		
All dimensions in inches. Do not manually alter CAD drawings, Do not scale		
Client Spokane Transit Property of STA		
Title HPT MARKER MAP CASING PANEL ASSEMBLY DETAILS		
Scale	NTS	Date 12/20/2020
Drawn	CC	Page 4 OF 23
Drawing No.		Rev
FSI-08-12-003		2

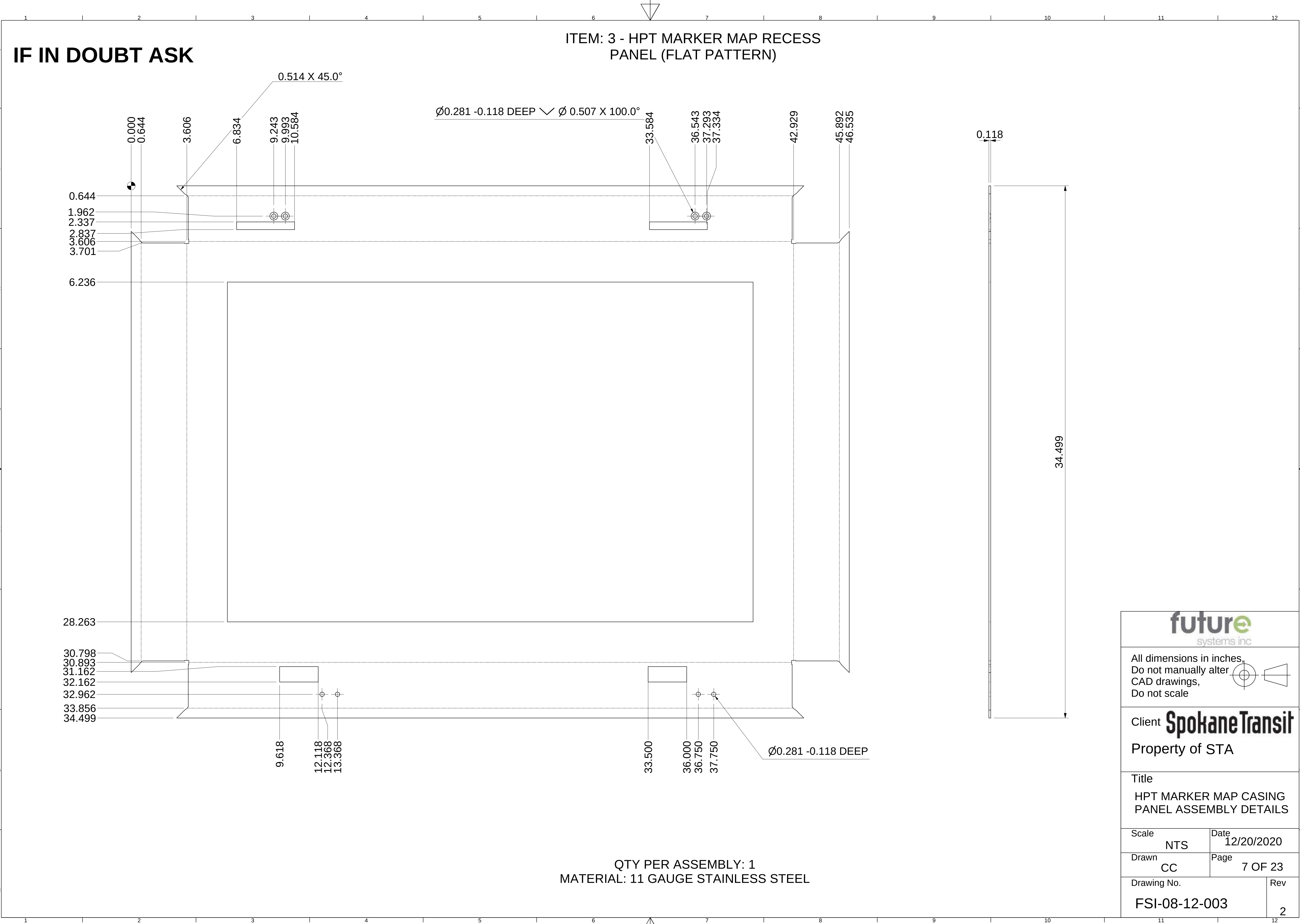
IF IN DOUBT ASK

ITEM: 2 - HPT MARKER MAP
CLADDING PANEL (FLAT PATTERN)



All dimensions in inches. Do not manually alter CAD drawings, Do not scale	
Client Spokane Transit Property of STA	
Title HPT MARKER MAP CASING PANEL ASSEMBLY DETAILS	
Scale NTS	Date 12/20/2020
Drawn CC	Page 5 OF 23
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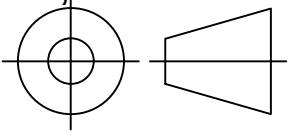
ITEM: 3 - HPT MARKER MAP RECESS
PANEL (FLAT PATTERN)

IF IN DOUBT ASK

QTY PER ASSEMBLY: 1
MATERIAL: 11 GAUGE STAINLESS STEEL



All dimensions in inches.
Do not manually alter
CAD drawings,
Do not scale



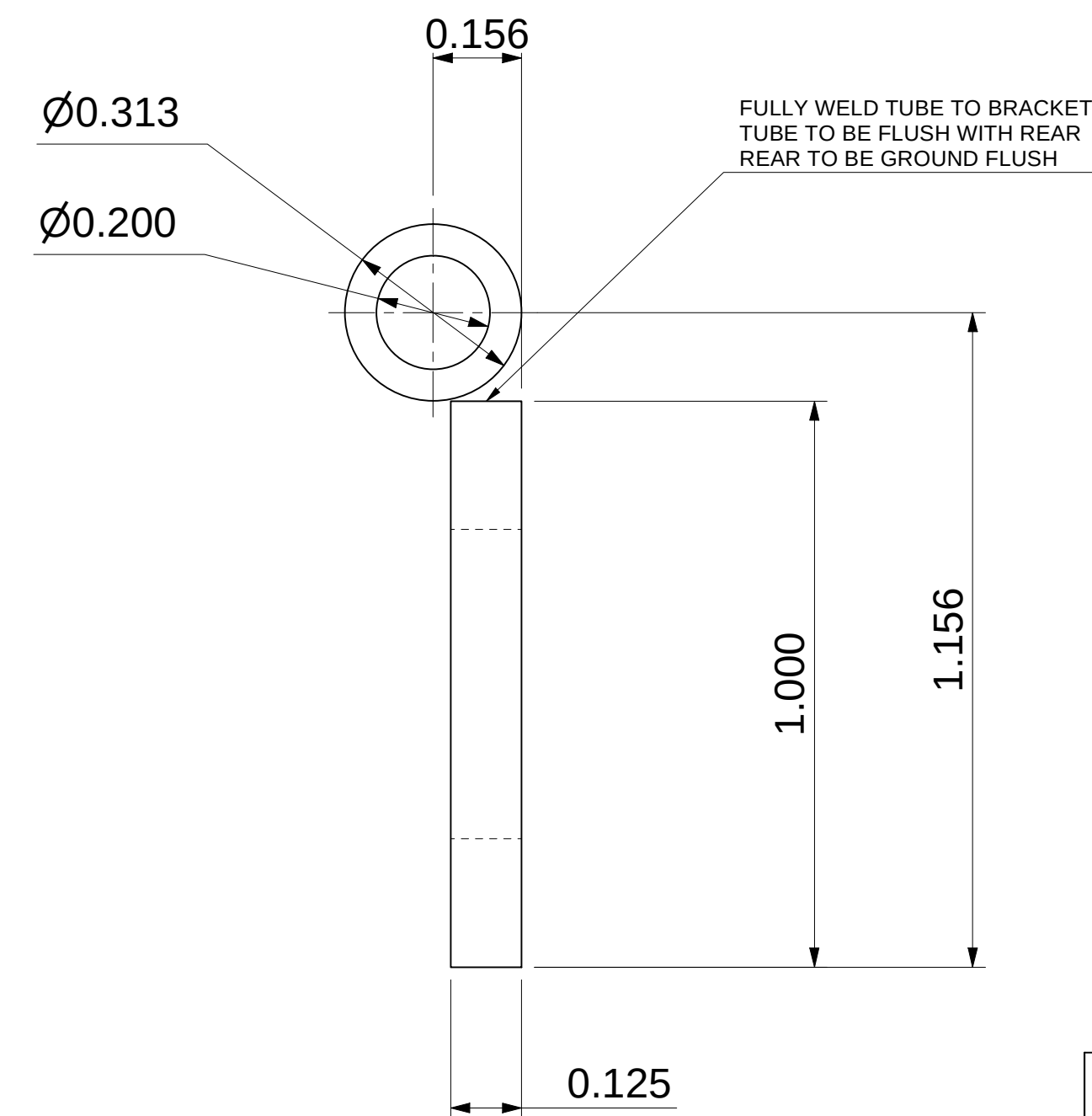
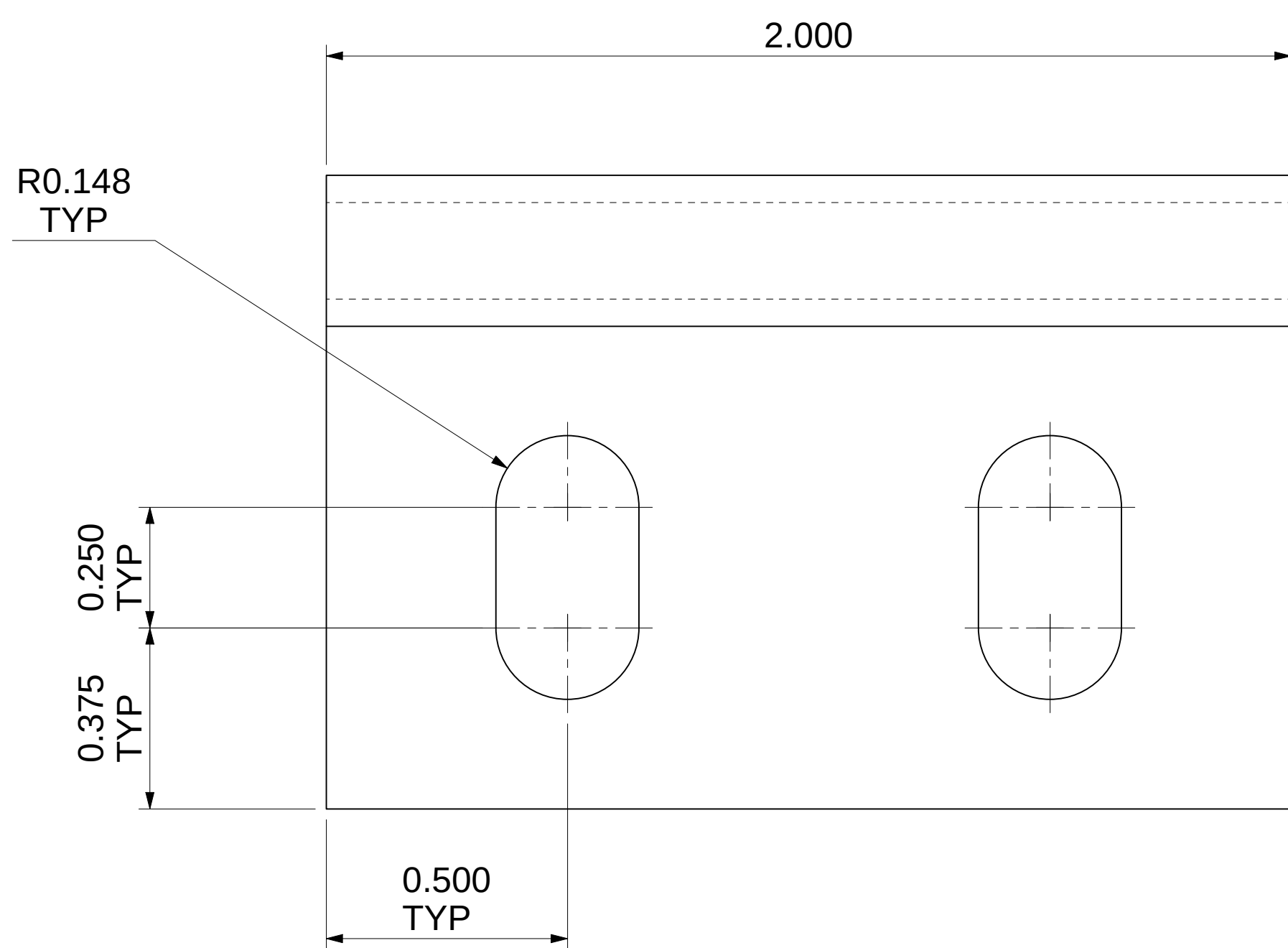
Client **Spokane Transit**
Property of STA

Title
HPT MARKER MAP CASING
PANEL ASSEMBLY DETAILS

Scale NTS	Date 12/20/2020
Drawn CC	Page 7 OF 23
Drawing No. FSI-08-12-003	Rev 2

IF IN DOUBT ASK

ITEM: 5 - TIMETABLE DOOR HINGE

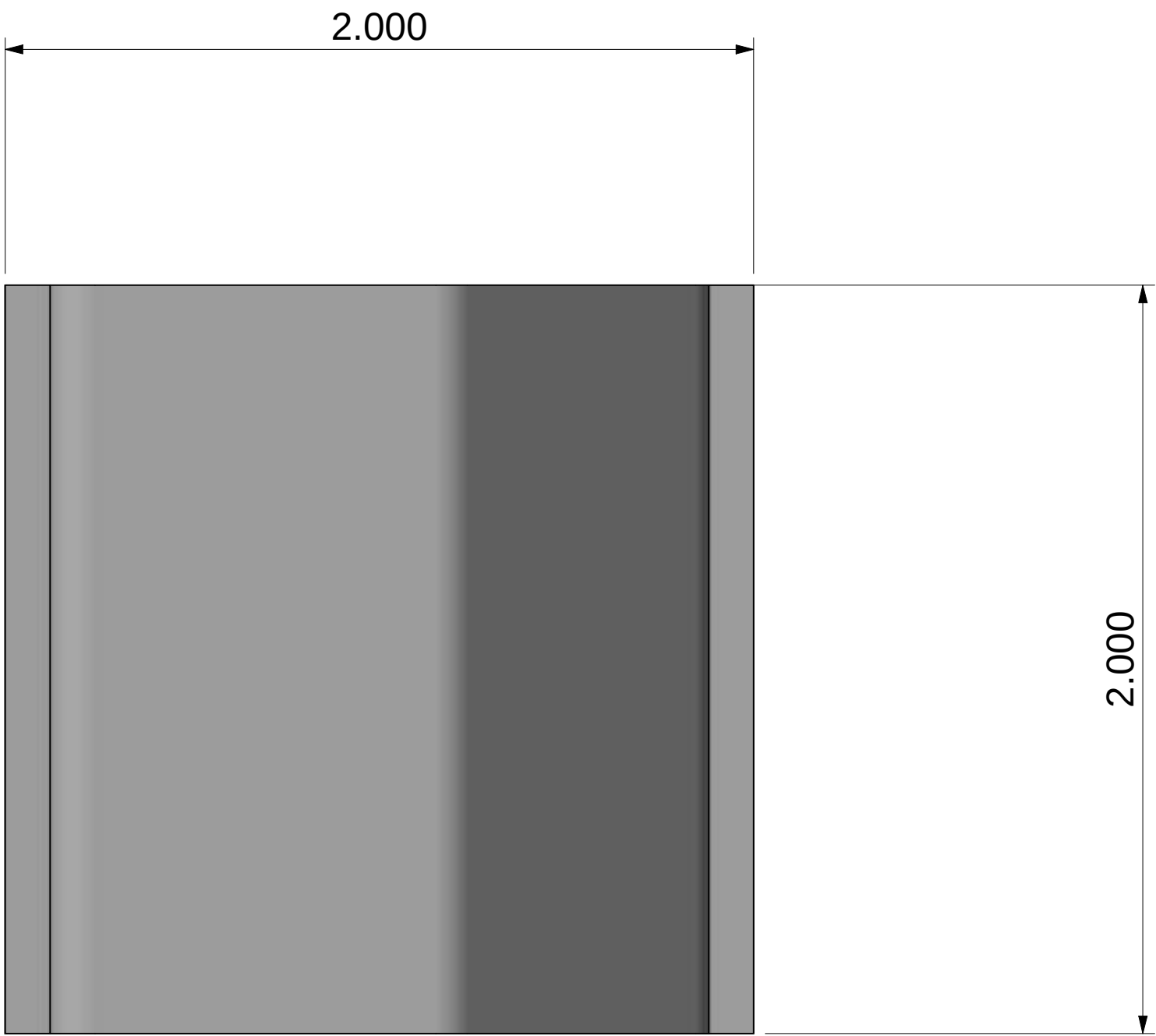
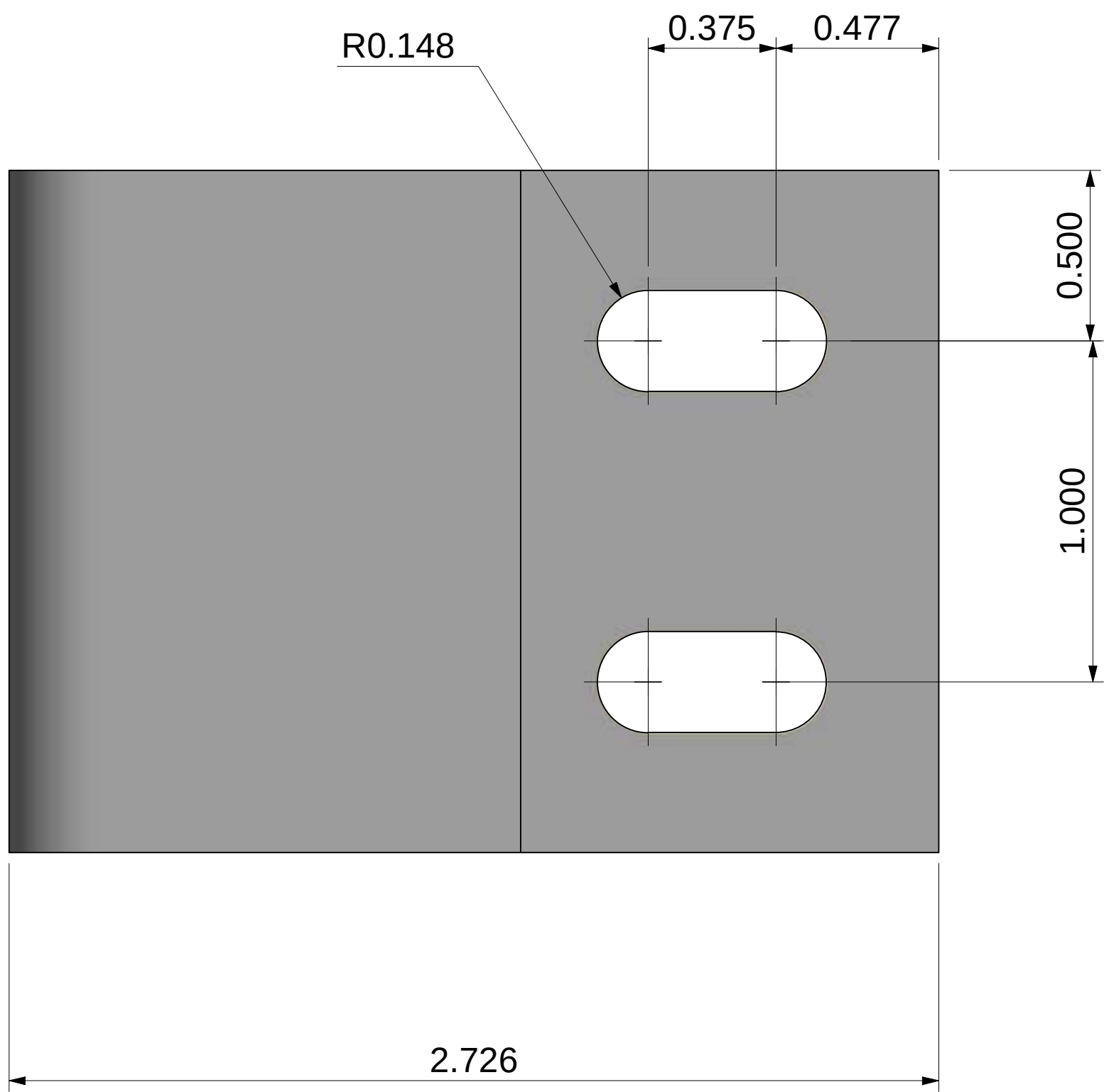
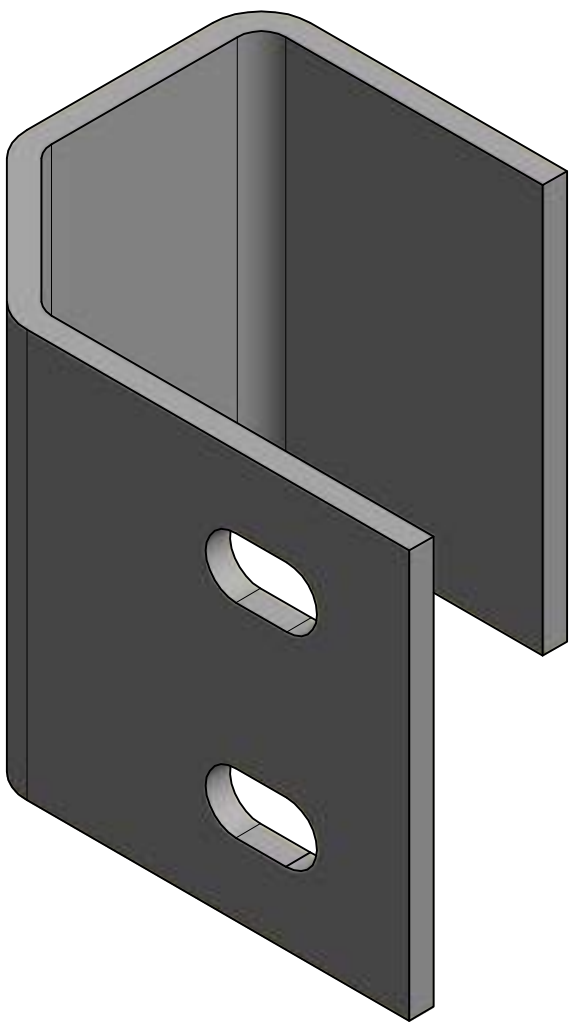
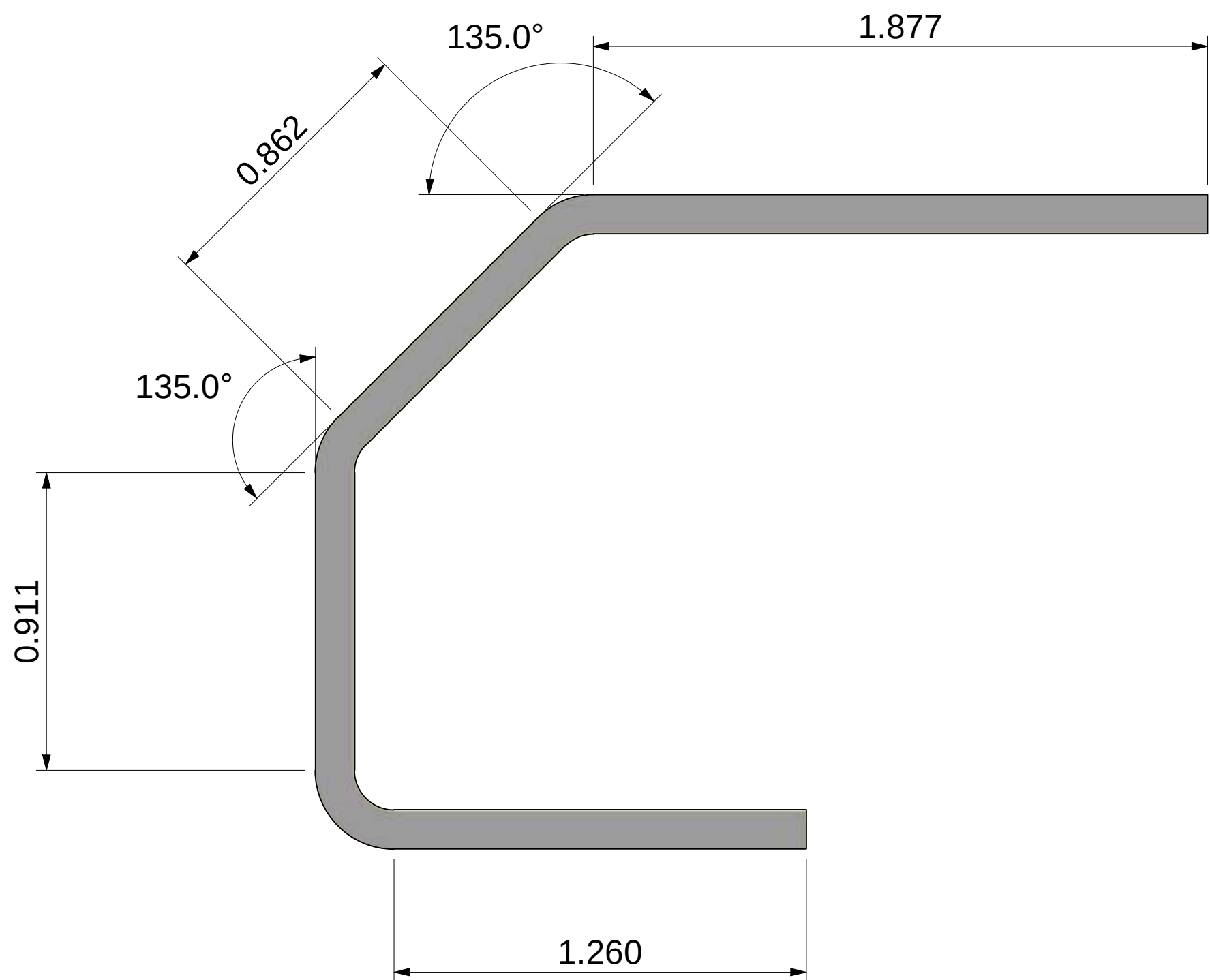


MATERIAL: STAINLESS STEEL
QTY PER ASSEMBLY: 2

future systems inc	
All dimensions in inches. Do not manually alter CAD drawings, Do not scale	
Client	Spokane Transit
Property of STA	
Title HPT MARKER MAP CASING PANEL ASSEMBLY DETAILS	
Scale NTS	Date 12/20/2020
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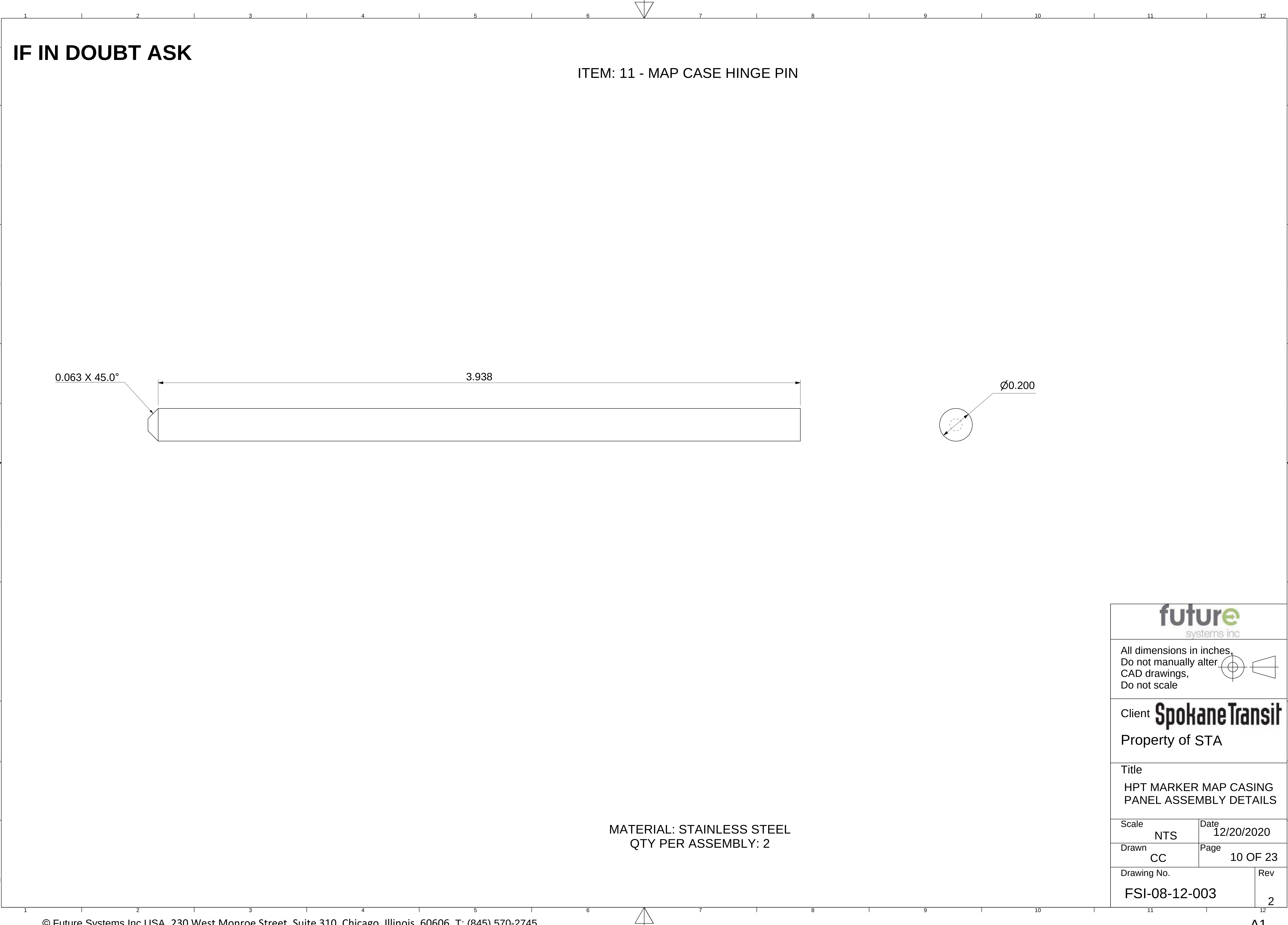
IF IN DOUBT ASK

ITEM: 10 - MAP CASE HINGE LEAF



MATERIAL: STAINLESS STEEL
QTY PER ASSEMBLY: 2

future systems inc	
All dimensions in inches. Do not manually alter CAD drawings, Do not scale	
Client Spokane Transit Property of STA	
Title HPT MARKER MAP CASING PANEL ASSEMBLY DETAILS	
Scale NTS	Date 12/20/2020
Drawn CC	Page 9 OF 23
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IF IN DOUBT ASK

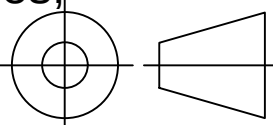
ITEM: 11 - MAP CASE HINGE PIN

0.063 X 45.0°

3.938

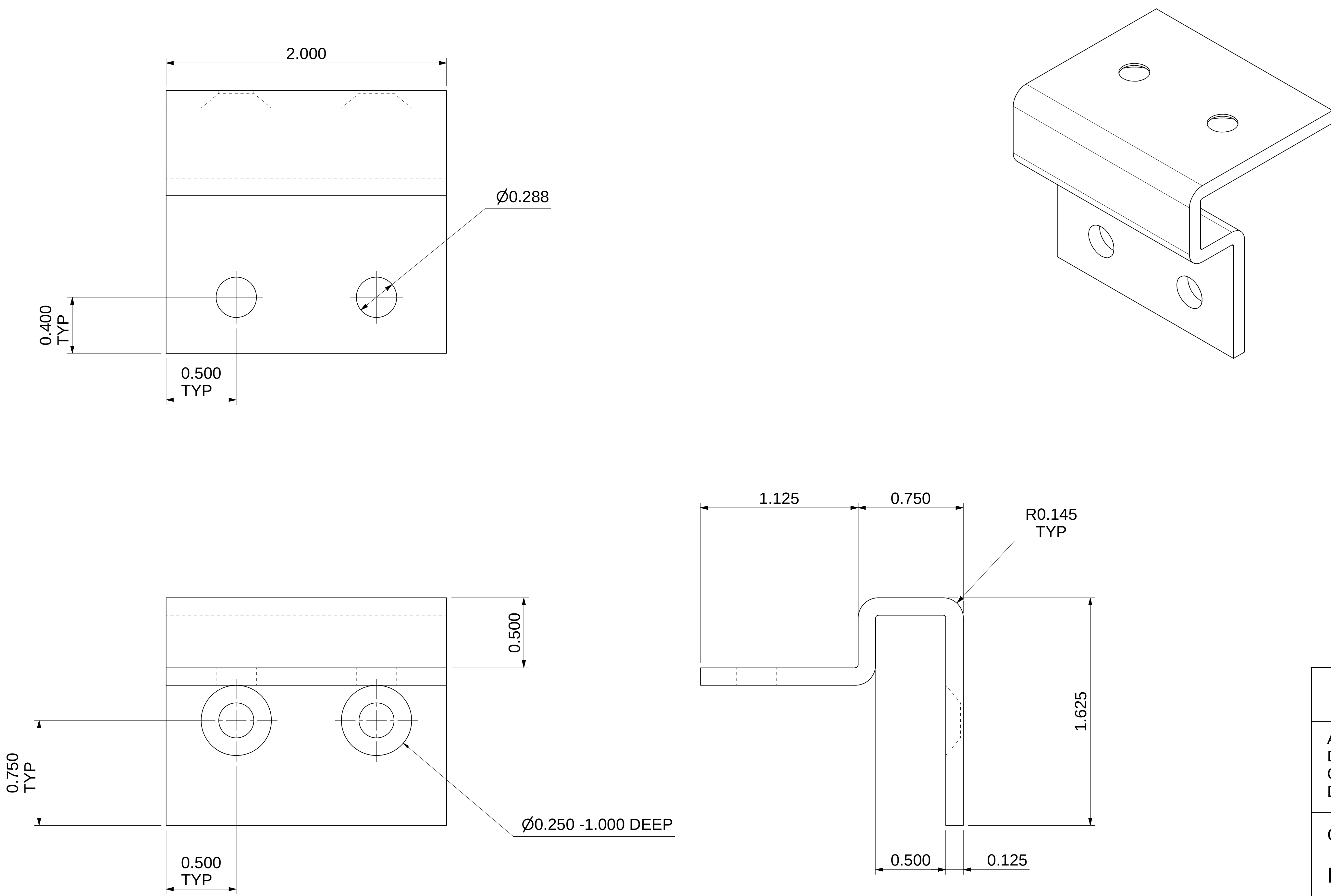
Ø0.200

MATERIAL: STAINLESS STEEL
QTY PER ASSEMBLY: 2

future systems inc	
All dimensions in inches, Do not manually alter CAD drawings, Do not scale	
	
Client	Spokane Transit
Property of STA	
Title HPT MARKER MAP CASING PANEL ASSEMBLY DETAILS	
Scale NTS	Date 12/20/2020
Drawn CC	Page 10 OF 23
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IF IN DOUBT ASK

ITEM: 12 - MAP BOX HINGE LEAF

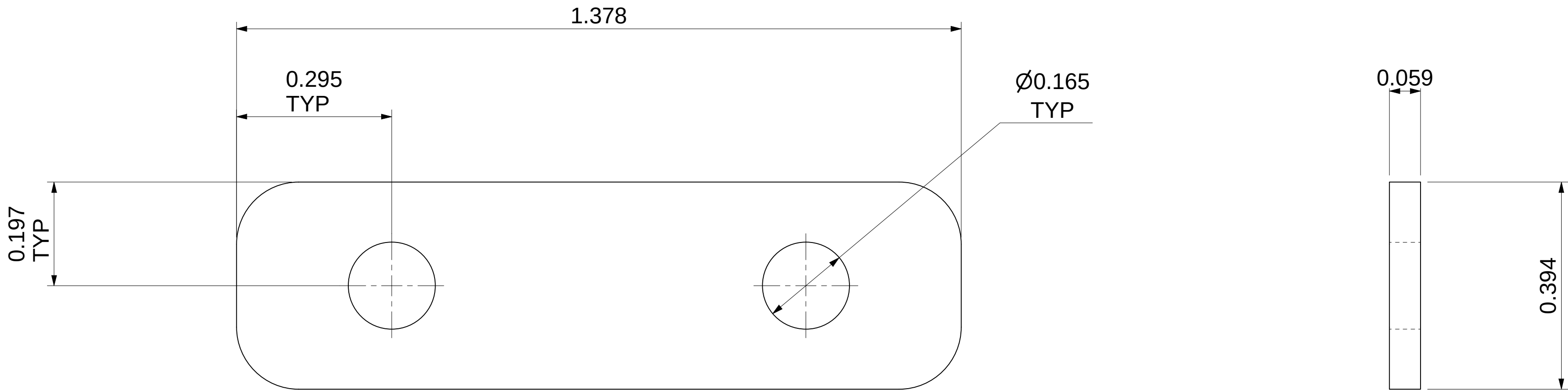


MATERIAL: STAINLESS STEEL
QTY PER ASSEMBLY: 2

	
All dimensions in inches. Do not manually alter CAD drawings, Do not scale	
Client Spokane Transit Property of STA	
Title HPT MARKER MAP CASING PANEL ASSEMBLY DETAILS	
Scale NTS	Date 12/20/2020
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Drawing No. FSI-08-12-003	Rev 2

IF IN DOUBT ASK

ITEM: 15 - HINGE BACKING PLATE



MATERIAL: STAINLESS STEEL
QTY PER ASSEMBLY: 2

All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale

Client

Spokane Transit

Property of STA

Title

HPT MARKER MAP CASING
PANEL ASSEMBLY DETAILS

Scale

NTS

Date

12/20/2020

Drawn

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Drawing No.

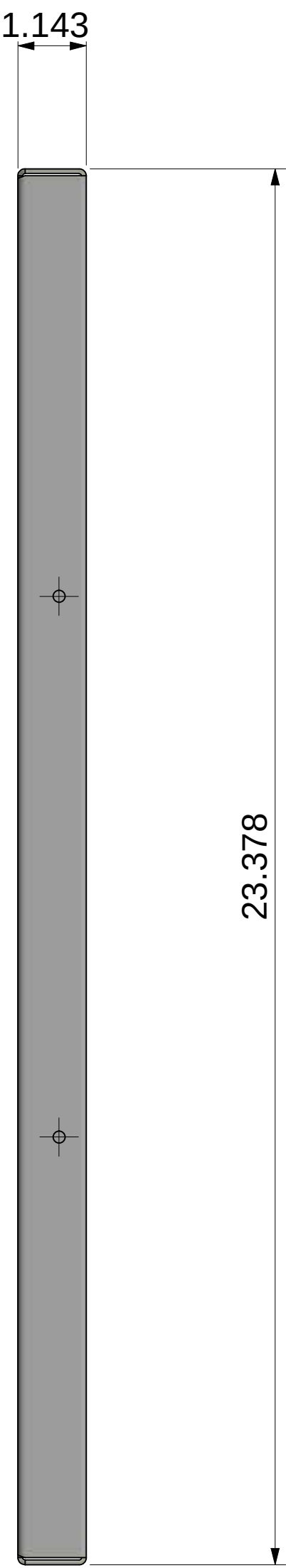
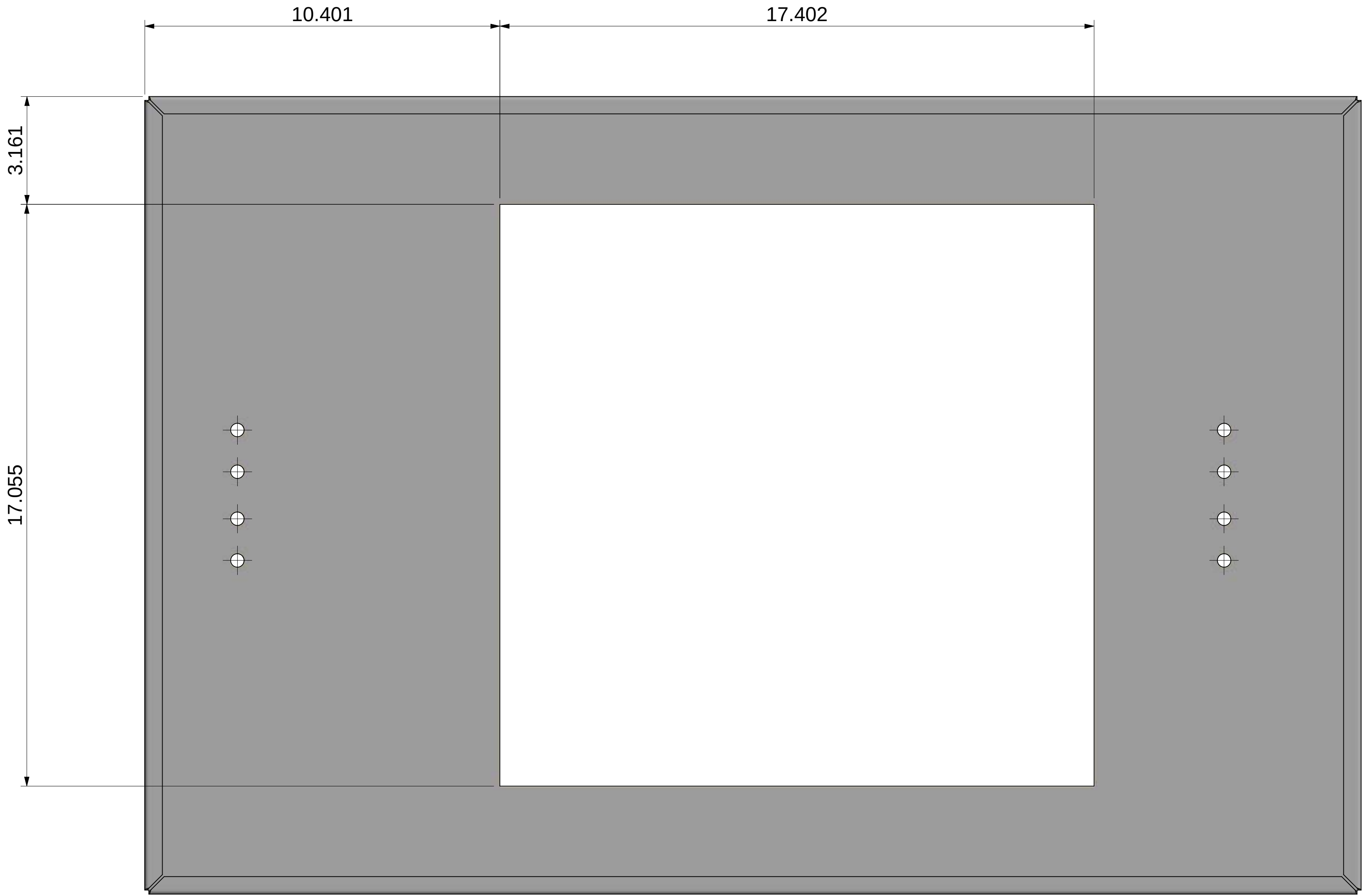
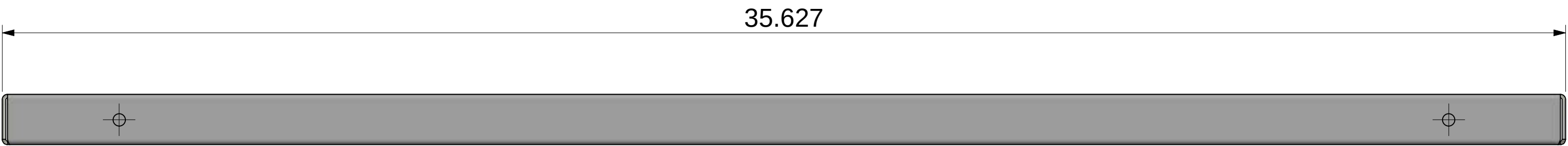
FSI-08-12-003

Rev

2

IF IN DOUBT ASK

ITEM: 17 - BACK BOX



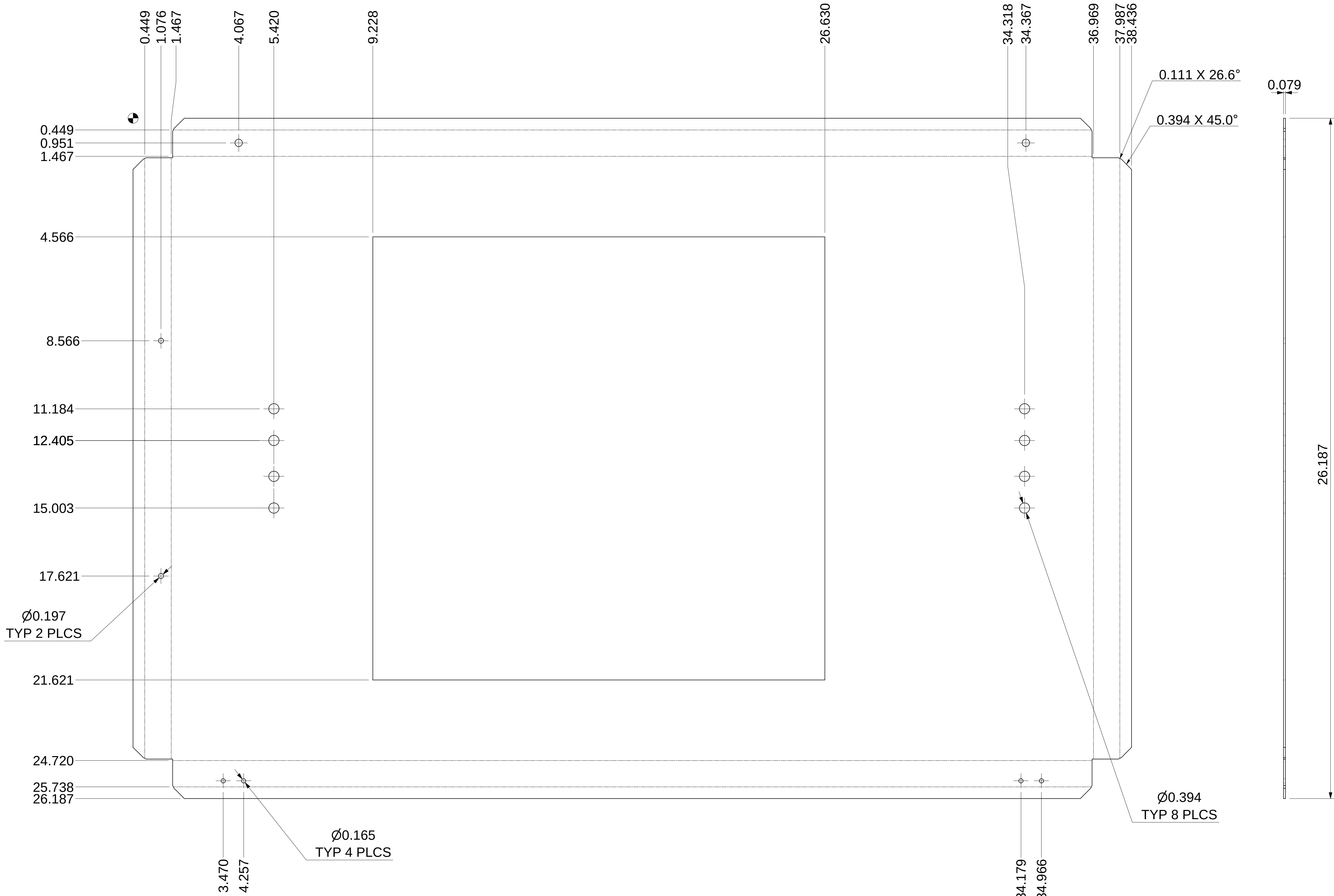
MATERIAL: 11 GAUGE STAINLESS STEEL
QTY PER ASSEMBLY: 1

*NOTE: SEE PAGE FOLLOWING PAGE
FOR FLAT PATTERN DETAILS

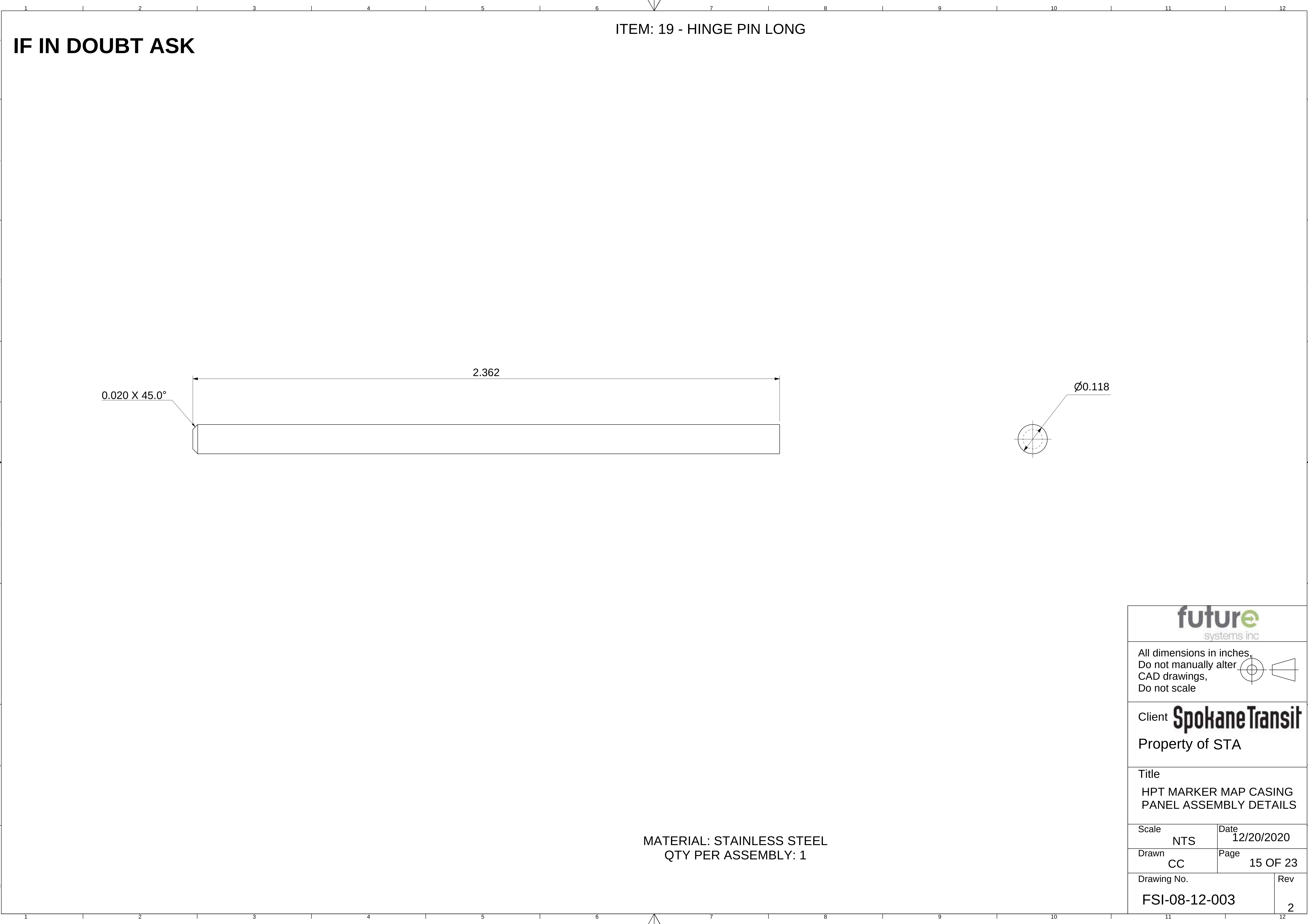
	
All dimensions in inches. Do not manually alter CAD drawings, Do not scale	
Client Spokane Transit Property of STA	
Title HPT MARKER MAP CASING PANEL ASSEMBLY DETAILS	
Scale NTS	Date 12/20/2020
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IF IN DOUBT ASK

ITEM: 17 - BACK BOX
FLAT PATTERN DETAILS



All dimensions in inches. Do not manually alter CAD drawings, Do not scale			
Client Spokane Transit Property of STA			
Title HPT MARKER MAP CASING PANEL ASSEMBLY DETAILS			
Scale NTS		Date 12/20/2020	
Drawn CC		Page 14 OF 23	
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IF IN DOUBT ASK

ITEM: 19 - HINGE PIN LONG

0.020 X 45.0°

2.362

Ø0.118

MATERIAL: STAINLESS STEEL
QTY PER ASSEMBLY: 1

All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale

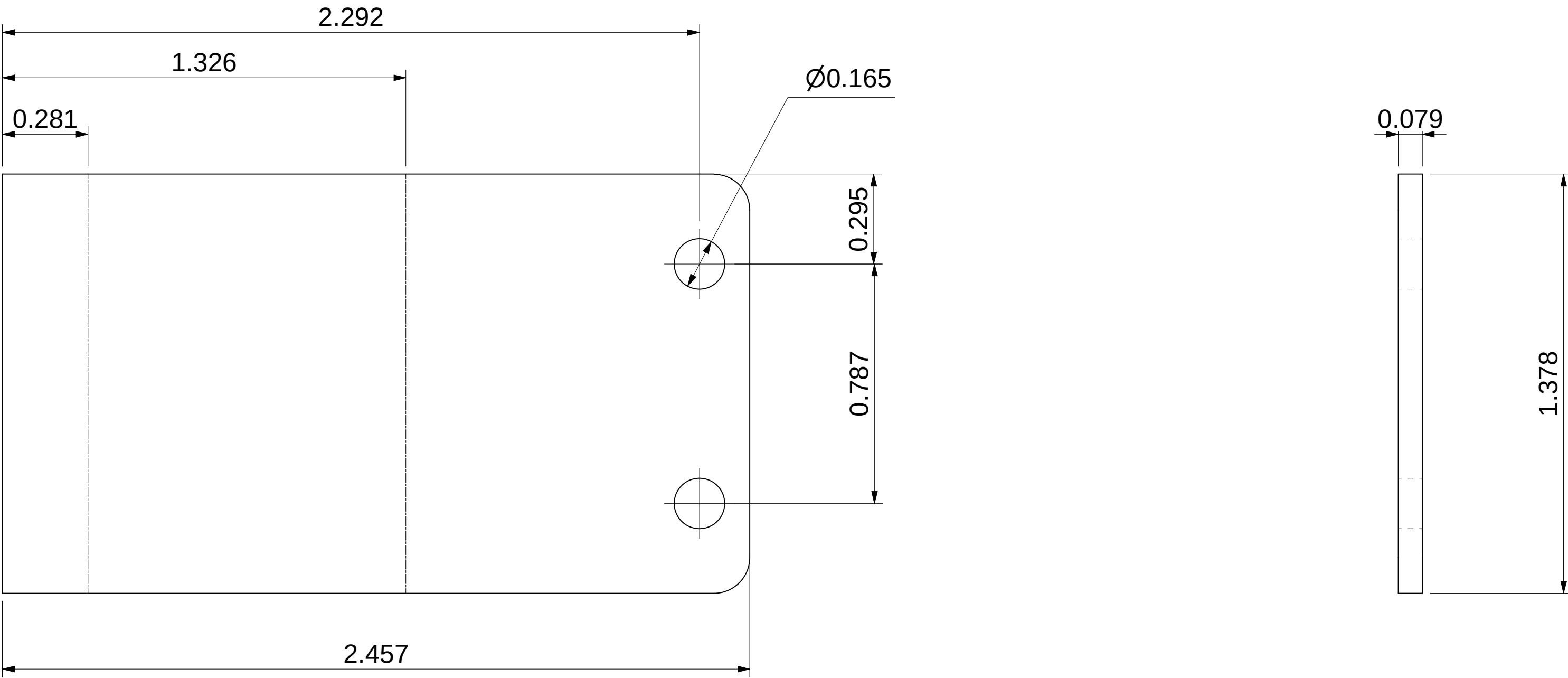
Client **Spokane Transit**
Property of STA

Title
HPT MARKER MAP CASING
PANEL ASSEMBLY DETAILS

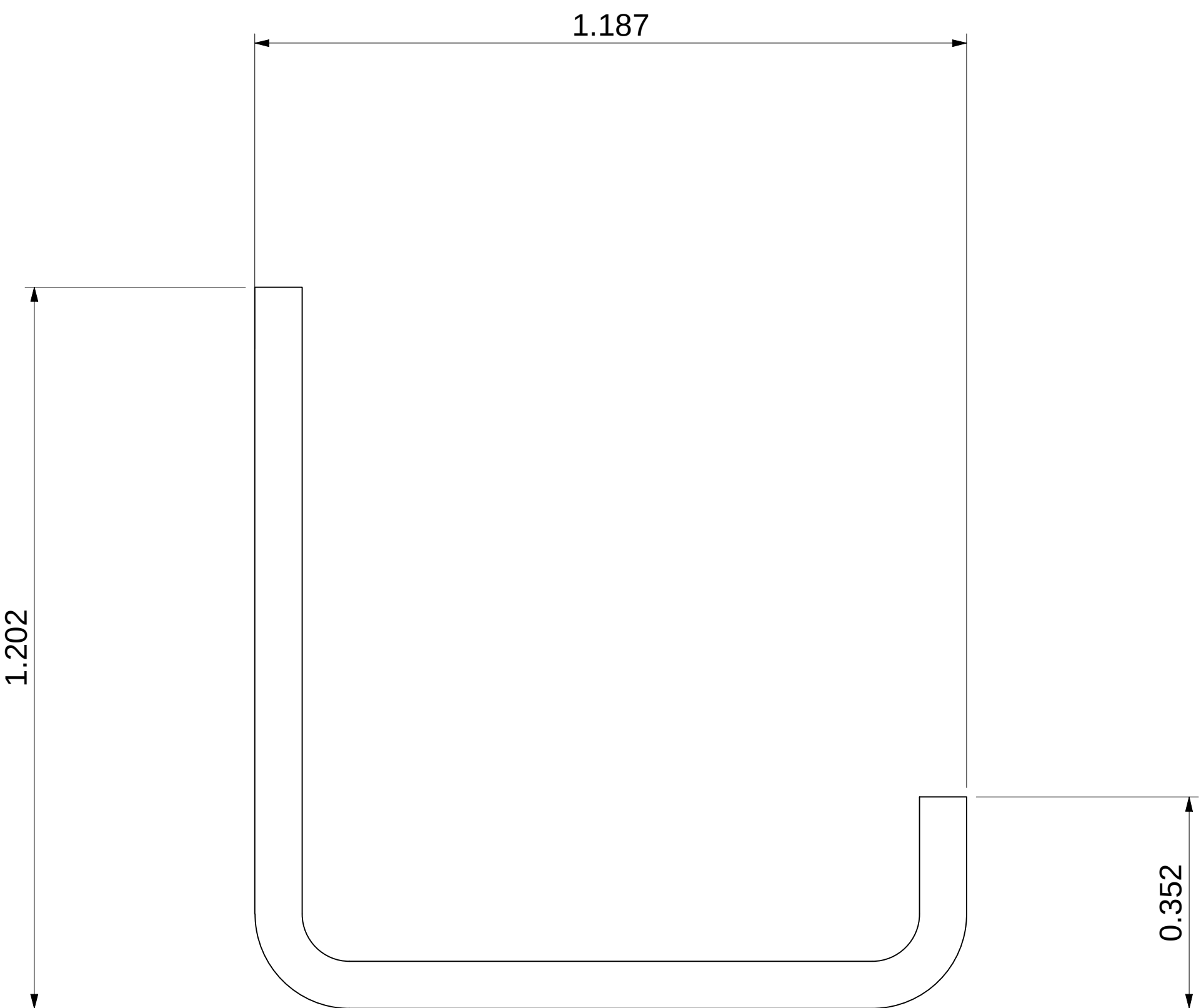
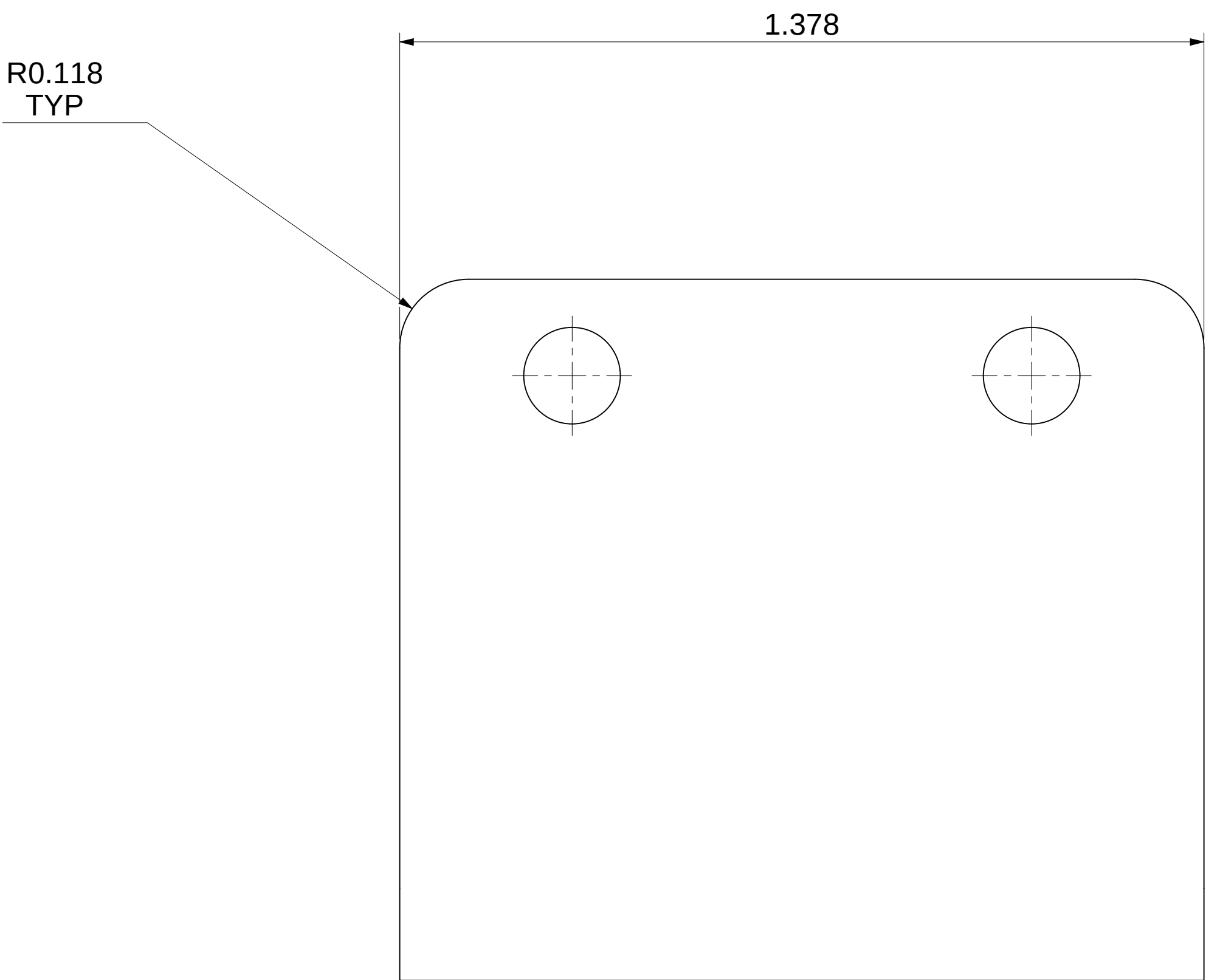
Scale NTS	Date 12/20/2020
Drawn CC	Page 15 OF 23
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Rev 2	

IF IN DOUBT ASK

ITEM: 20 - MAP BOX HINGE LEAF



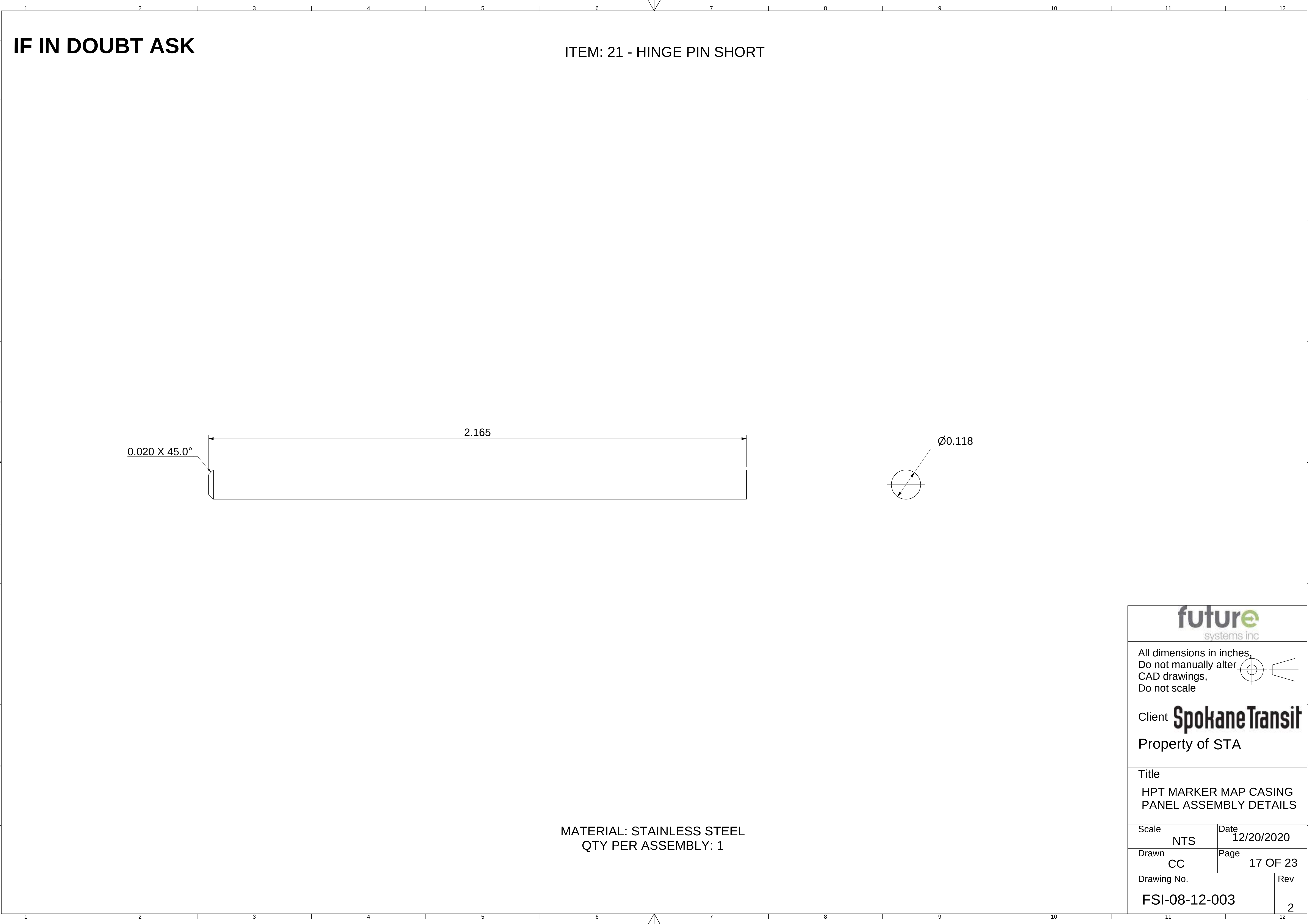
FLAT PATTERN DETAILS



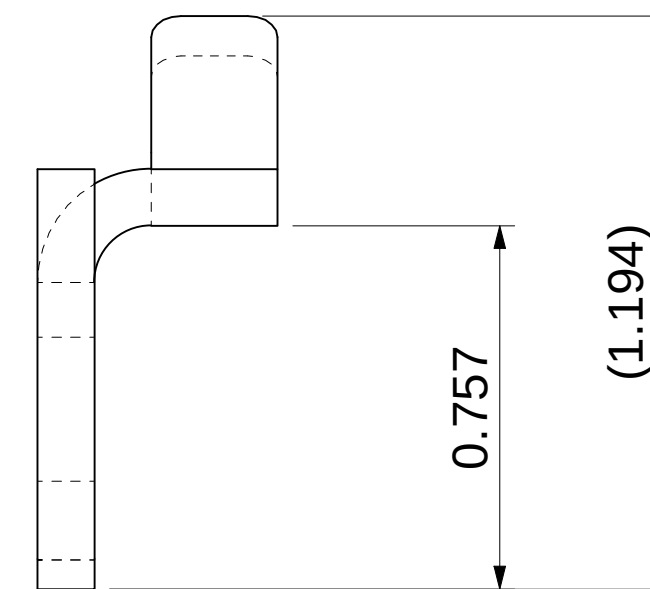
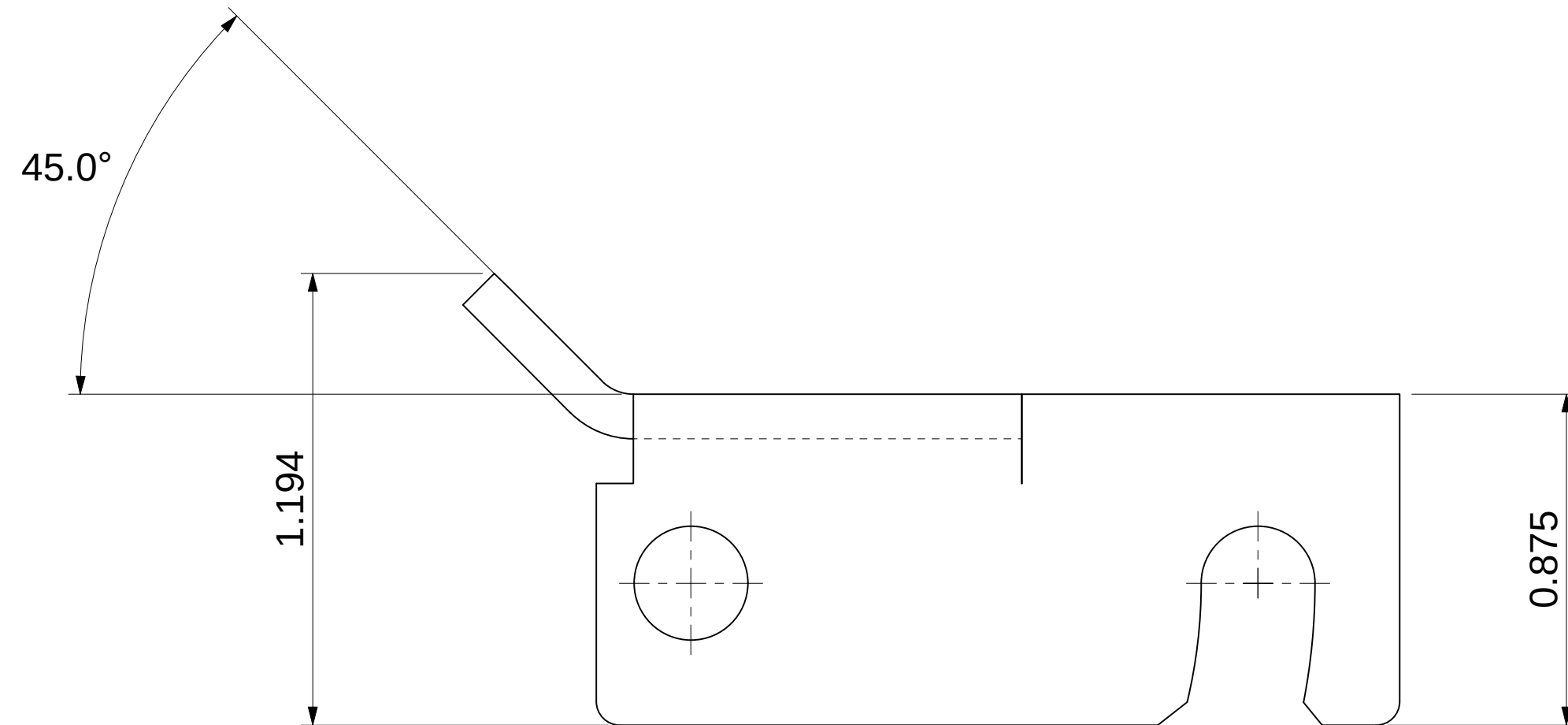
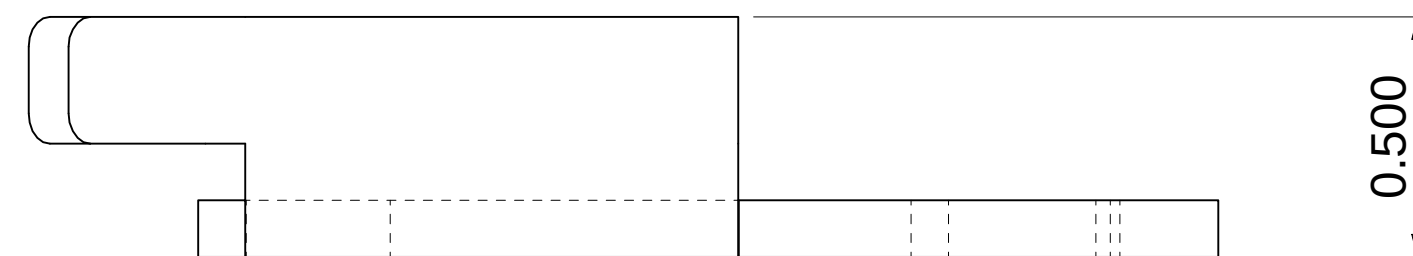
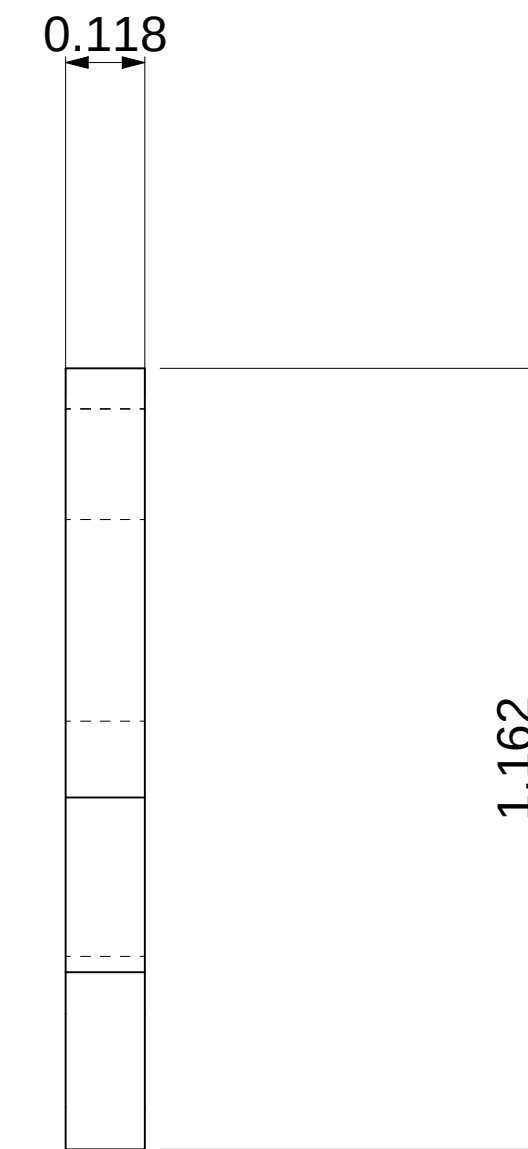
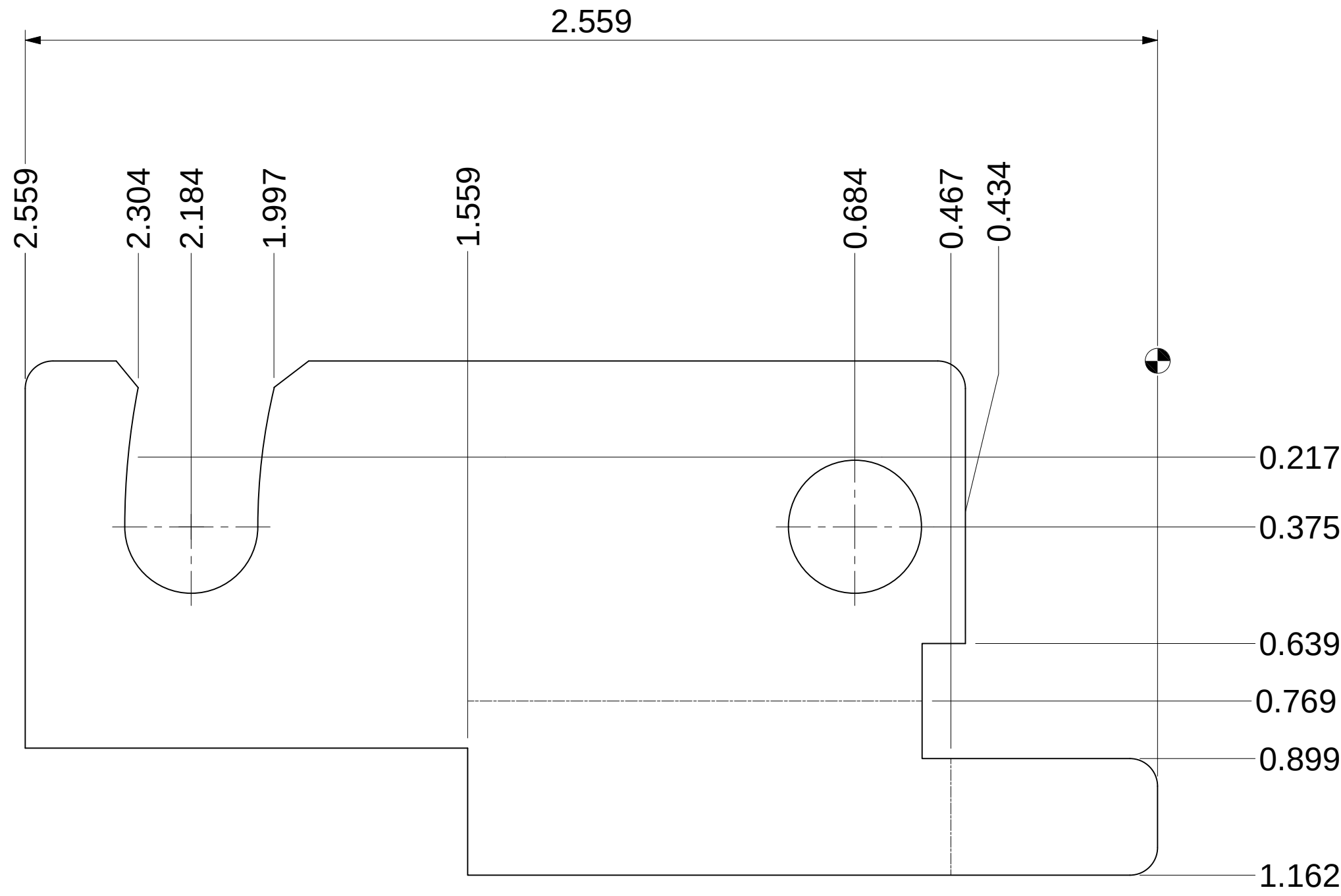
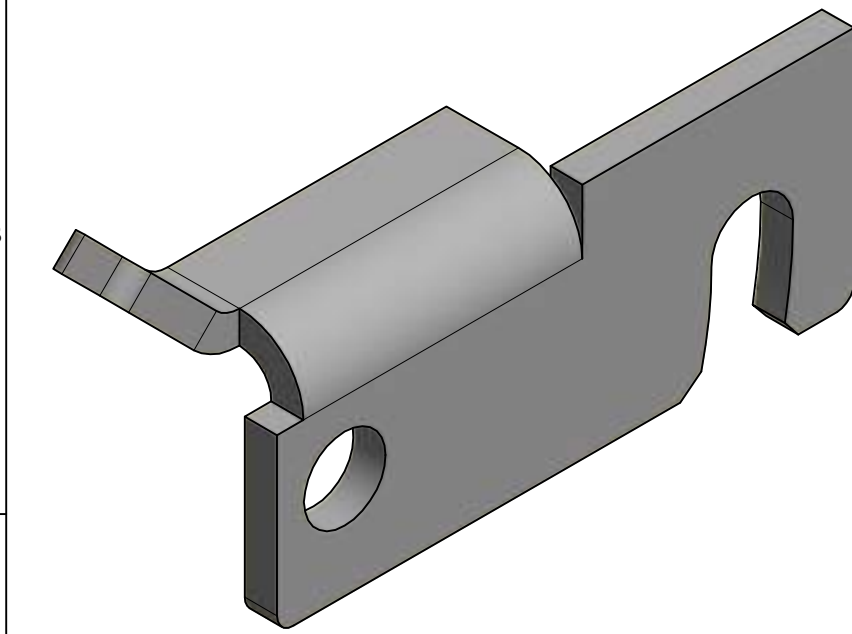
FOLDED PART

MATERIAL: STAINLESS STEEL
QTY PER ASSEMBLY: 2

future systems inc	
All dimensions in inches. Do not manually alter CAD drawings, Do not scale	
Client Spokane Transit Property of STA	
Title HPT MARKER MAP CASING PANEL ASSEMBLY DETAILS	
Scale NTS	Date 12/20/2020
Drawn CC	Page 16 OF 23
Drawing No. FSI-08-12-003	Rev 2



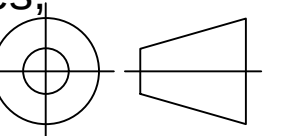
IF IN DOUBT ASK



MATERIAL: STAINLESS STEEL
QTY PER ASSEMBLY: 2

future
systems inc

All dimensions in inches.
Do not manually alter
CAD drawings,
Do not scale



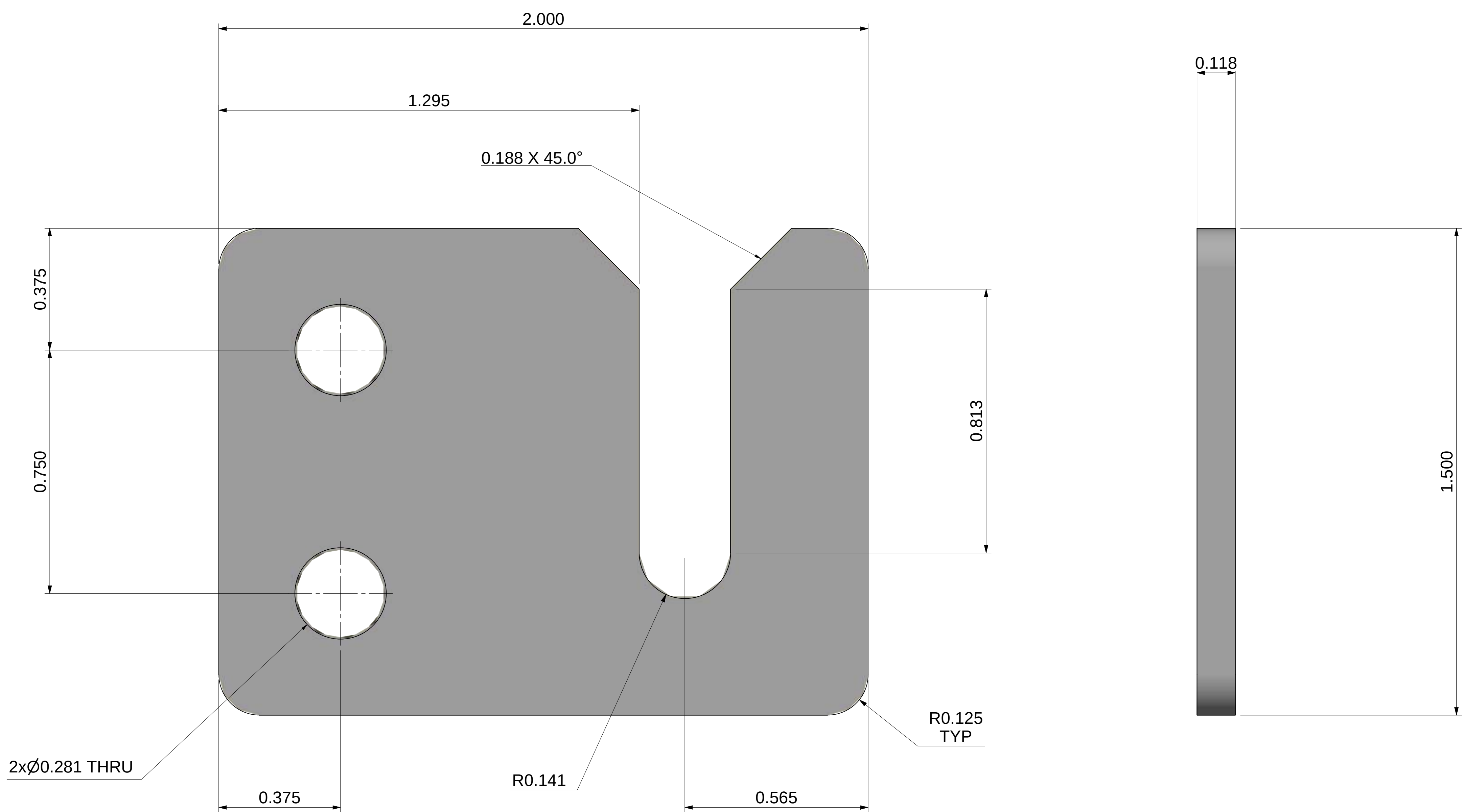
Client **Spokane Transit**
Property of STA

Title
HPT MARKER MAP CASING
PANEL ASSEMBLY DETAILS

Scale NTS	Date 12/20/2020
Drawn CC	Page 18 OF 23
Drawing No. FSI-08-12-003	Rev 2

IF IN DOUBT ASK

ITEM: 23 - MAP LOCK KEEP

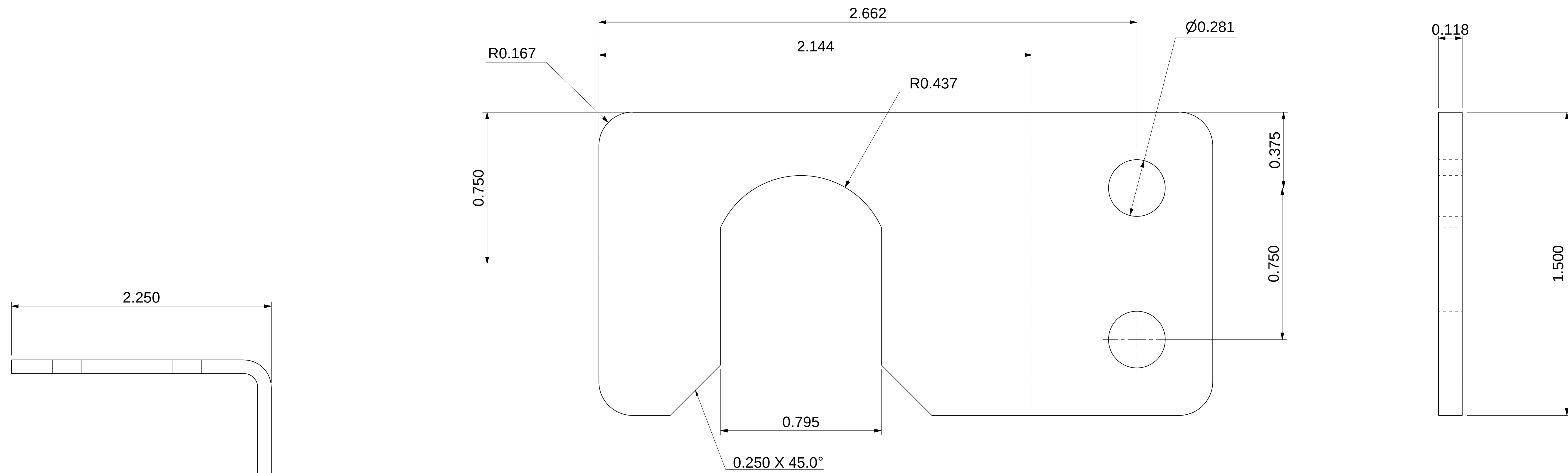


MATERIAL: STAINLESS STEEL
QTY PER ASSEMBLY: 2

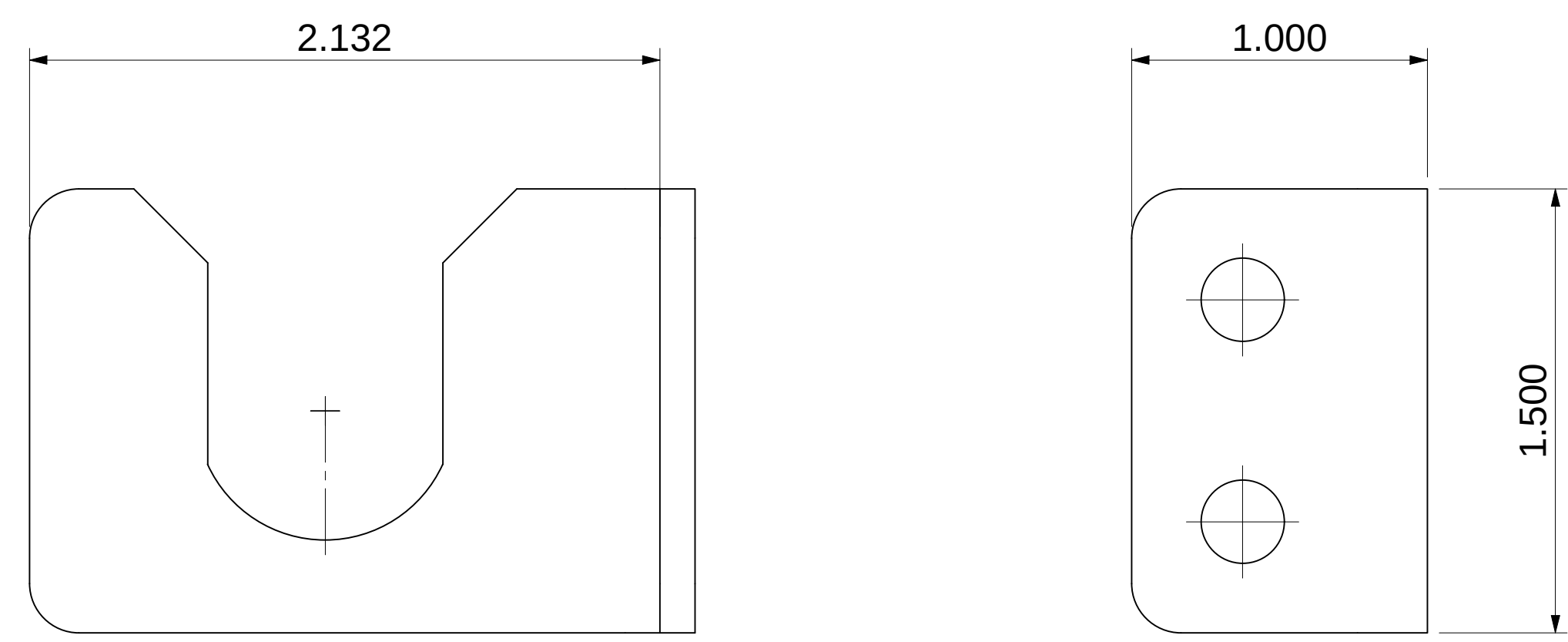
future systems inc			
All dimensions in inches, Do not manually alter CAD drawings, Do not scale			
Client Spokane Transit Property of STA			
Title HPT MARKER MAP CASING PANEL ASSEMBLY DETAILS			
Scale NTS		Date 12/20/2020	
Drawn CC		Page 19 OF 23	
Drawing No. FSI-08-12-003			Rev 2

IF IN DOUBT ASK

ITEM: 29 - MAP LOCK HOLDER



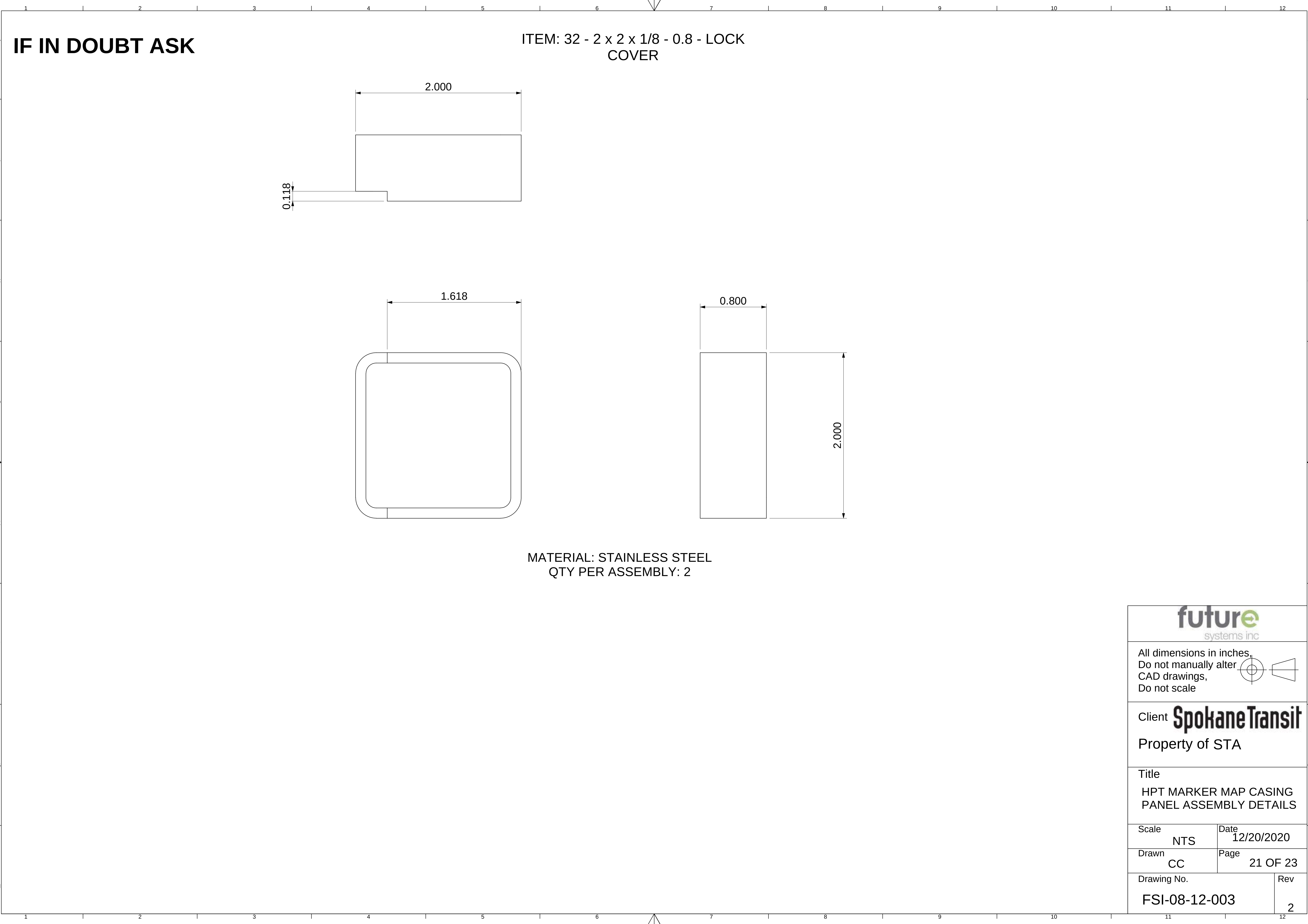
FLAT PATTERN



FOLDED PATTERN

MATERIAL: STAINLESS STEEL
QTY PER ASSEMBLY: 2

All dimensions in inches. Do not manually alter CAD drawings, Do not scale	
Client Spokane Transit Property of STA	
Title HPT MARKER MAP CASING PANEL ASSEMBLY DETAILS	
Scale NTS	Date 12/20/2020
Drawn CC	Page 20 OF 23
Drawing No. FSI-08-12-003	Rev 2



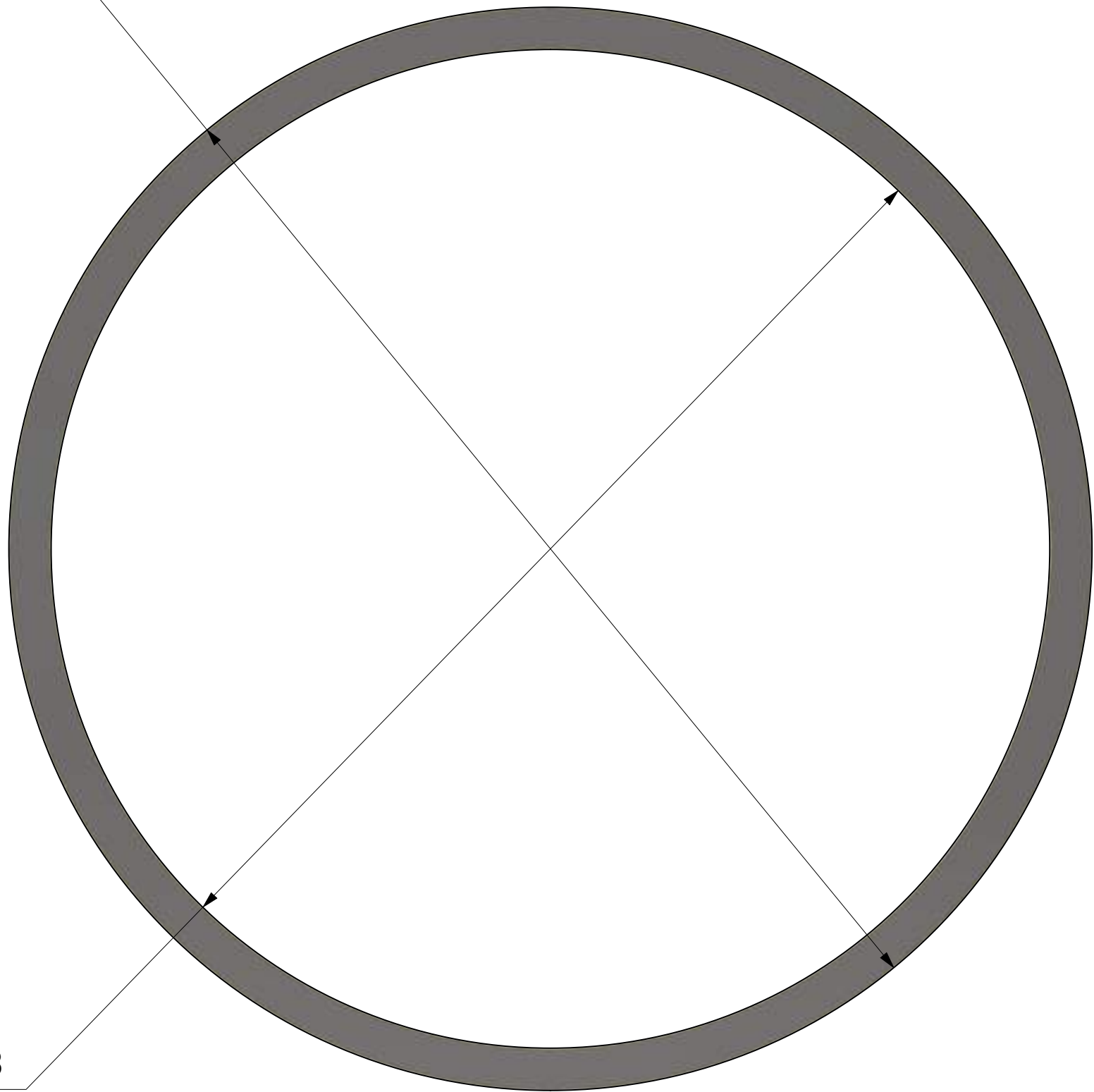
IF IN DOUBT ASK

ITEM: 36 - CAM LOCK SPACER



Ø0.800

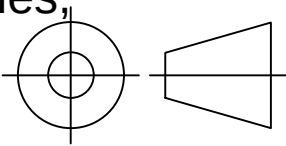
Ø0.738



MATERIAL: STAINLESS STEEL
QTY PER ASSEMBLY: 2



All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale



Client **Spokane Transit**
Property of STA

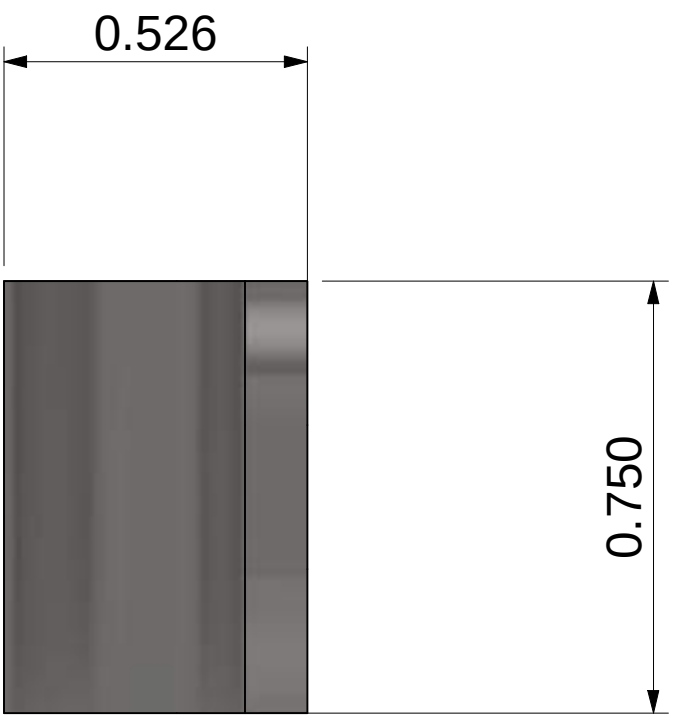
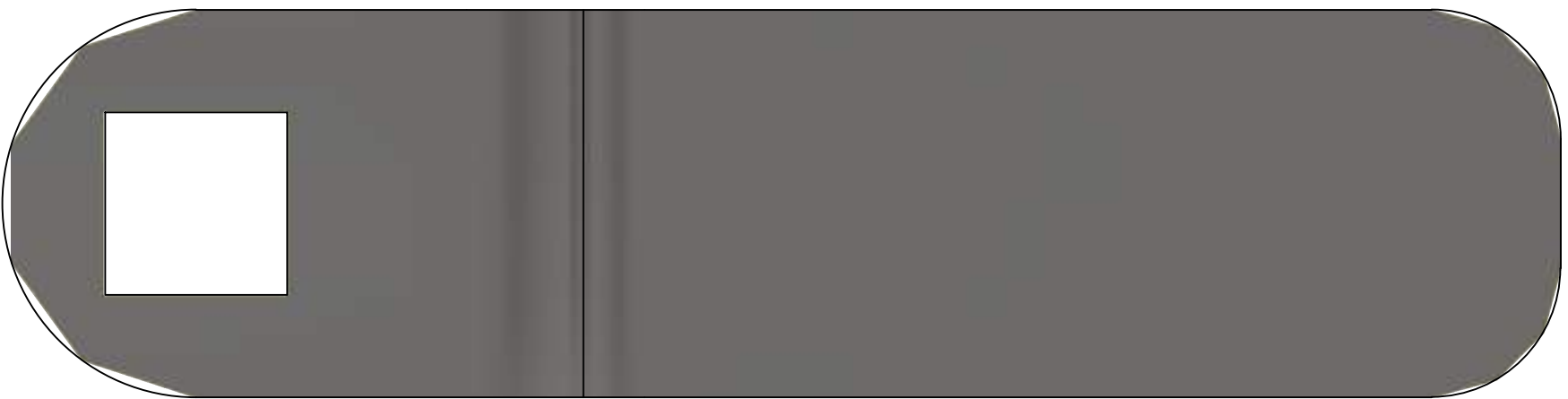
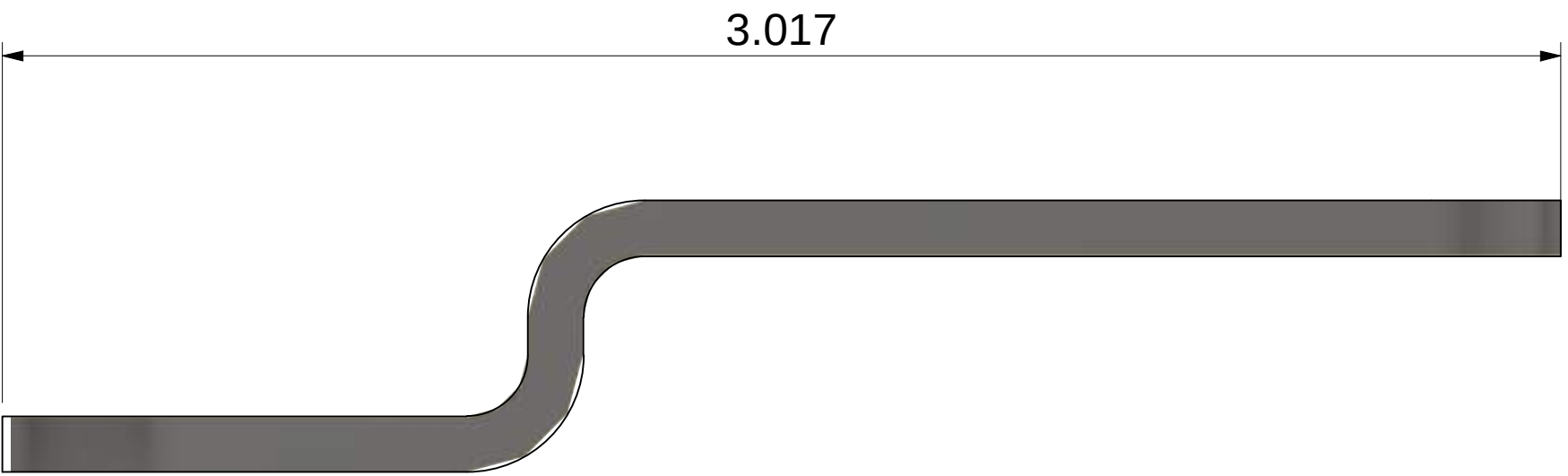
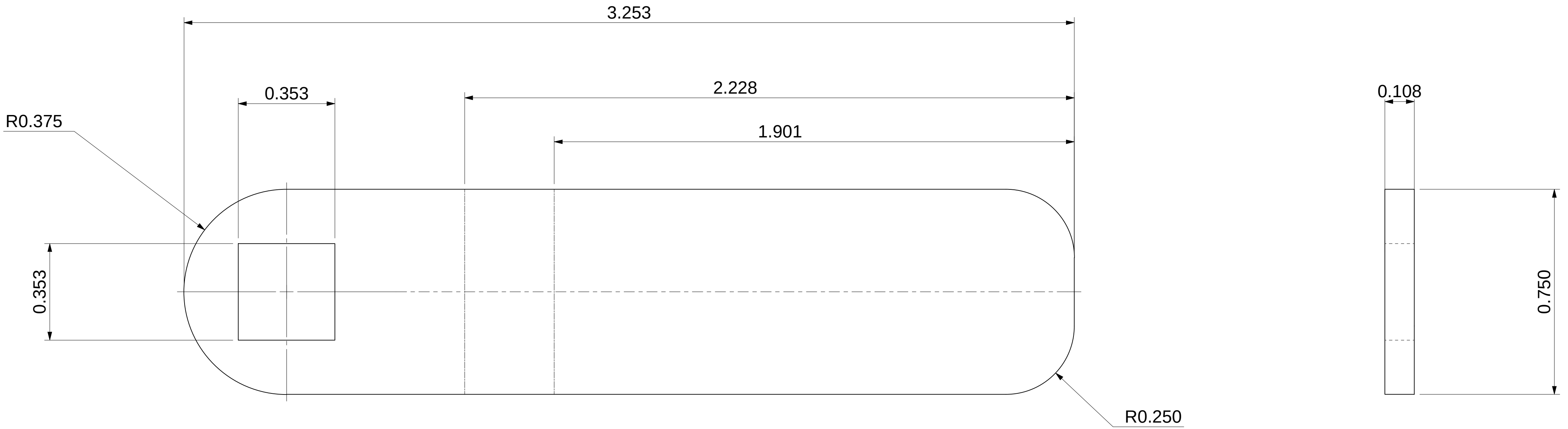
Title
HPT MARKER MAP CASING
PANEL ASSEMBLY DETAILS

Scale NTS	Date 12/20/2020
Drawn CC	Page 22 OF 23

Drawing No. FSI-08-12-003	Rev 2

IF IN DOUBT ASK

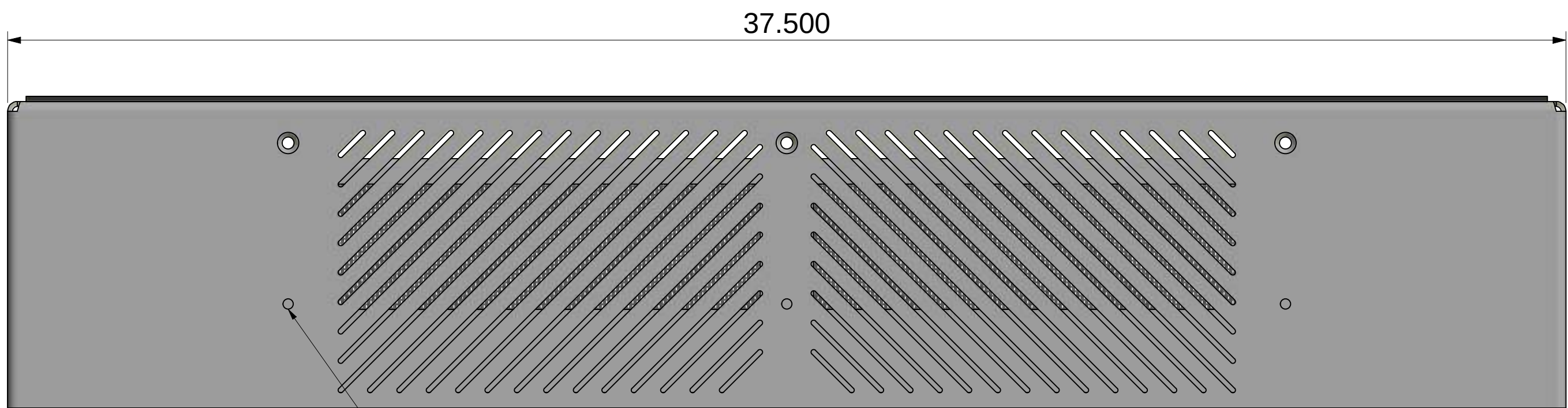
ITEM: 37 - CAM LOCK LATCH



MATERIAL: STAINLESS STEEL
QTY PER ASSEMBLY: 2

future systems inc	
All dimensions in inches. Do not manually alter CAD drawings, Do not scale	
Client Spokane Transit Property of STA	
Title HPT MARKER MAP CASING PANEL ASSEMBLY DETAILS	
Scale NTS	Date 12/20/2020
Drawn CC	Page 23 OF 23
Drawing No. FSI-08-12-003	Rev 2

IF IN DOUBT ASK



STUD WELD
TYP 3 PLCS

Notes: Remove all sharp edges and burrs unless otherwise stated.

Grind all welds flush

Assembly to be pre-assembled

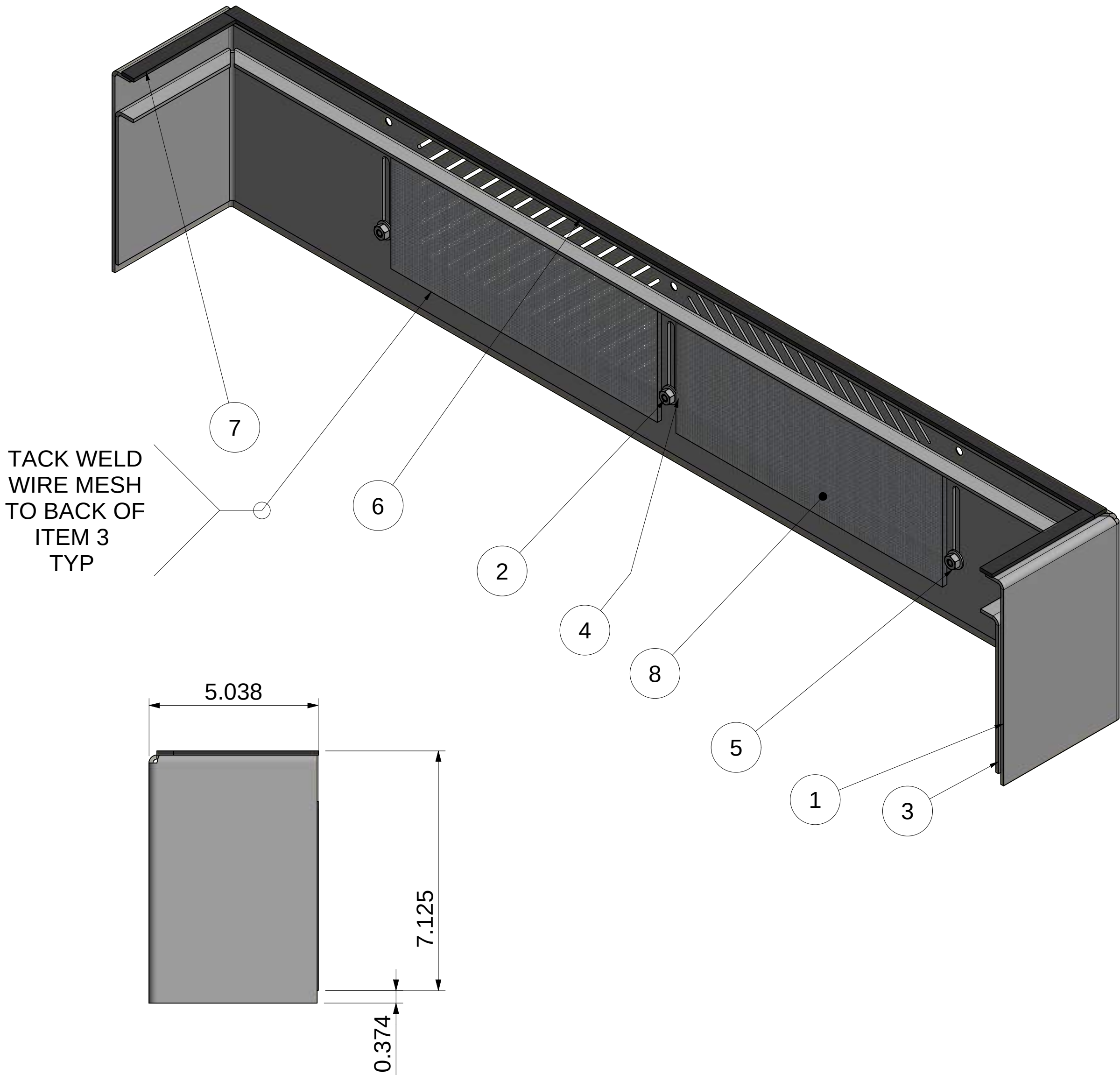
Material: Stainless Steel

Finish: Assemblies to be painted to client specifications

Approx. Weight: 8kgs (18lbs)

Assemblies Required Per Marker: 2

Tolerances unless stated otherwise to be at $\pm 1/32$ "

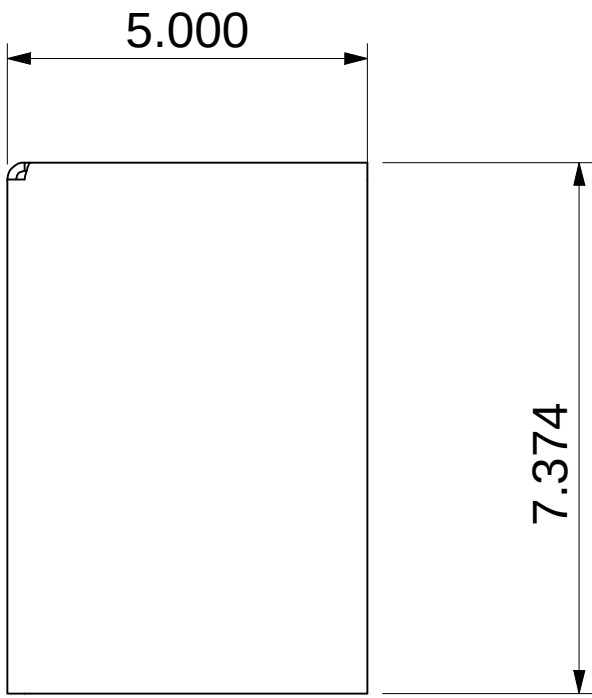
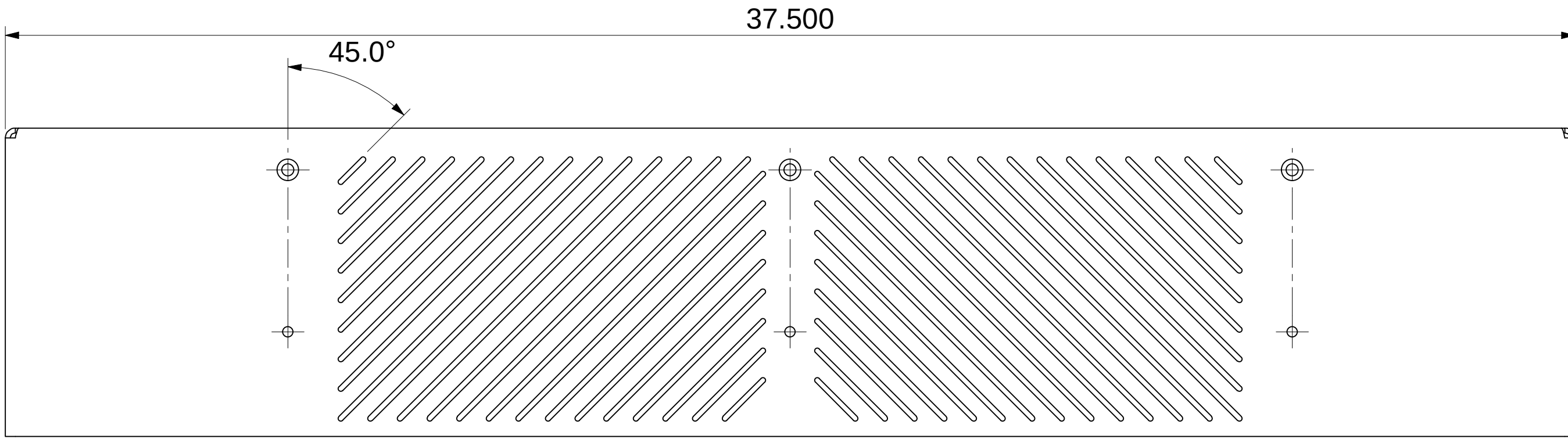
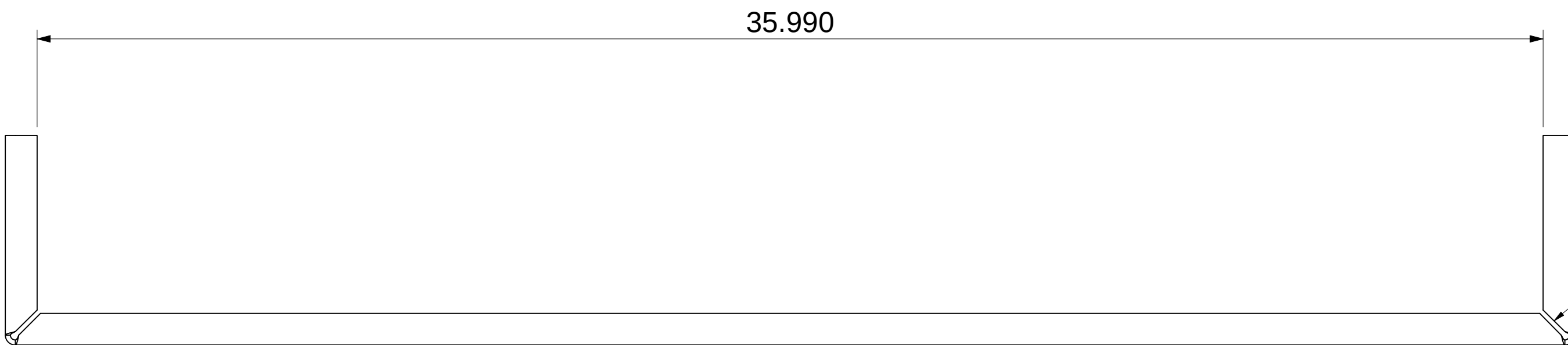
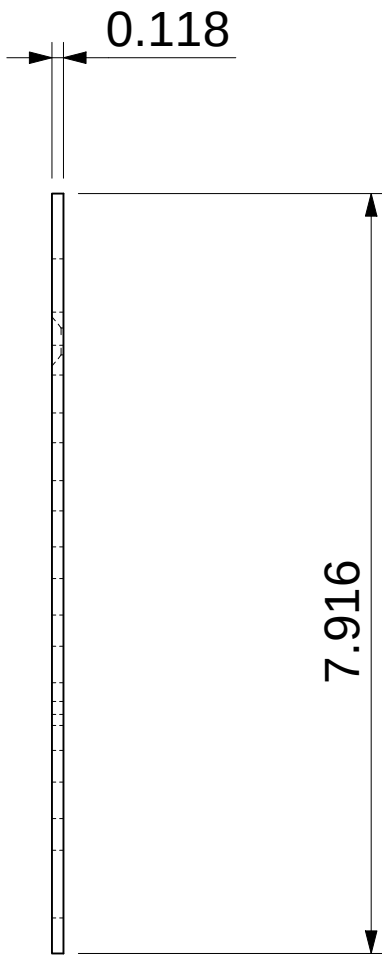
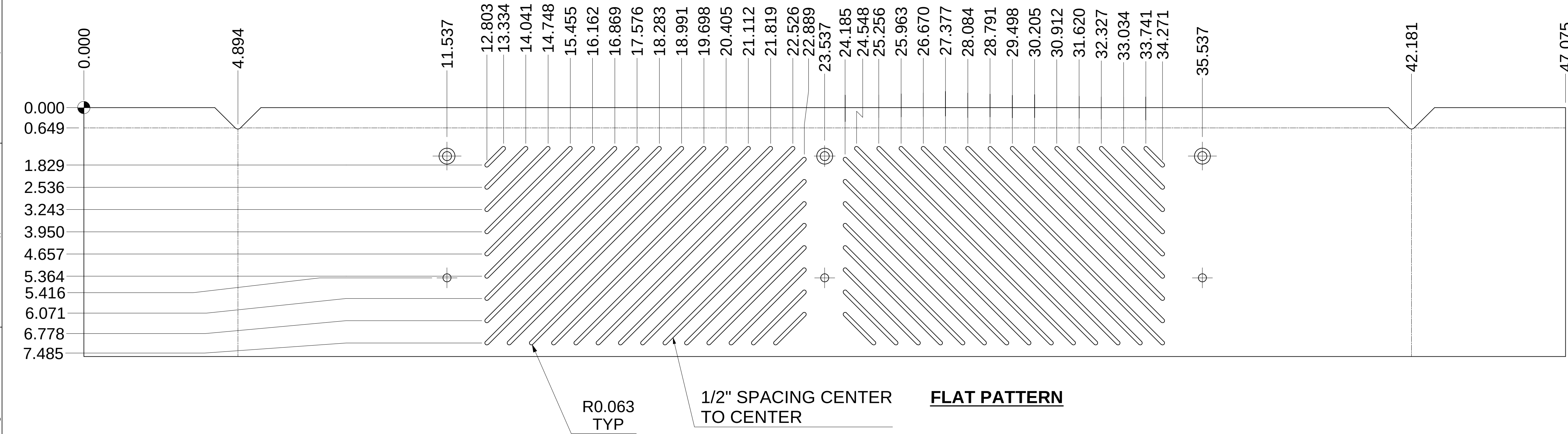


PARTS LIST			
ITEM	QTY	DRAWING NUMBER	DESCRIPTION
1	1	HPT MARKER KICK PANEL	SEE SHEET 2
2	3	1/4" UNC WELD STUD	93865A650 or Equivalent
3	1	HPT MARKER KICK PANEL LOWER	SEE SHEET 3
4	3	1-4 TYPE 18-8 STAINLESS STEEL FLAT WASHER	92141A029 or Equivalent
5	3	1-4 UNC TYPE 18-8 STAINLESS STEEL HEX NUT	91845A029 or Equivalent
6	1	HPT MARKER SEAL - 02	75315A32 or Equivalent
7	2	HPT MARKER SEAL - 03	75315A32 or Equivalent
8	2	VENT SCREEN	9253T35 or Equivalent

0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
future systems inc			
All dimensions in inches. Do not manually alter CAD drawings, Do not scale			
Client Spokane Transit			
Property of STA			
Title HPT MARKER KICK PANEL ASSEMBLY DETAILS			
Scale NTS		Date 12/18/2020	
Drawn CC		Page 1 OF 4	
Drawing No. FSI-08-12-004			Rev 0

IF IN DOUBT ASK

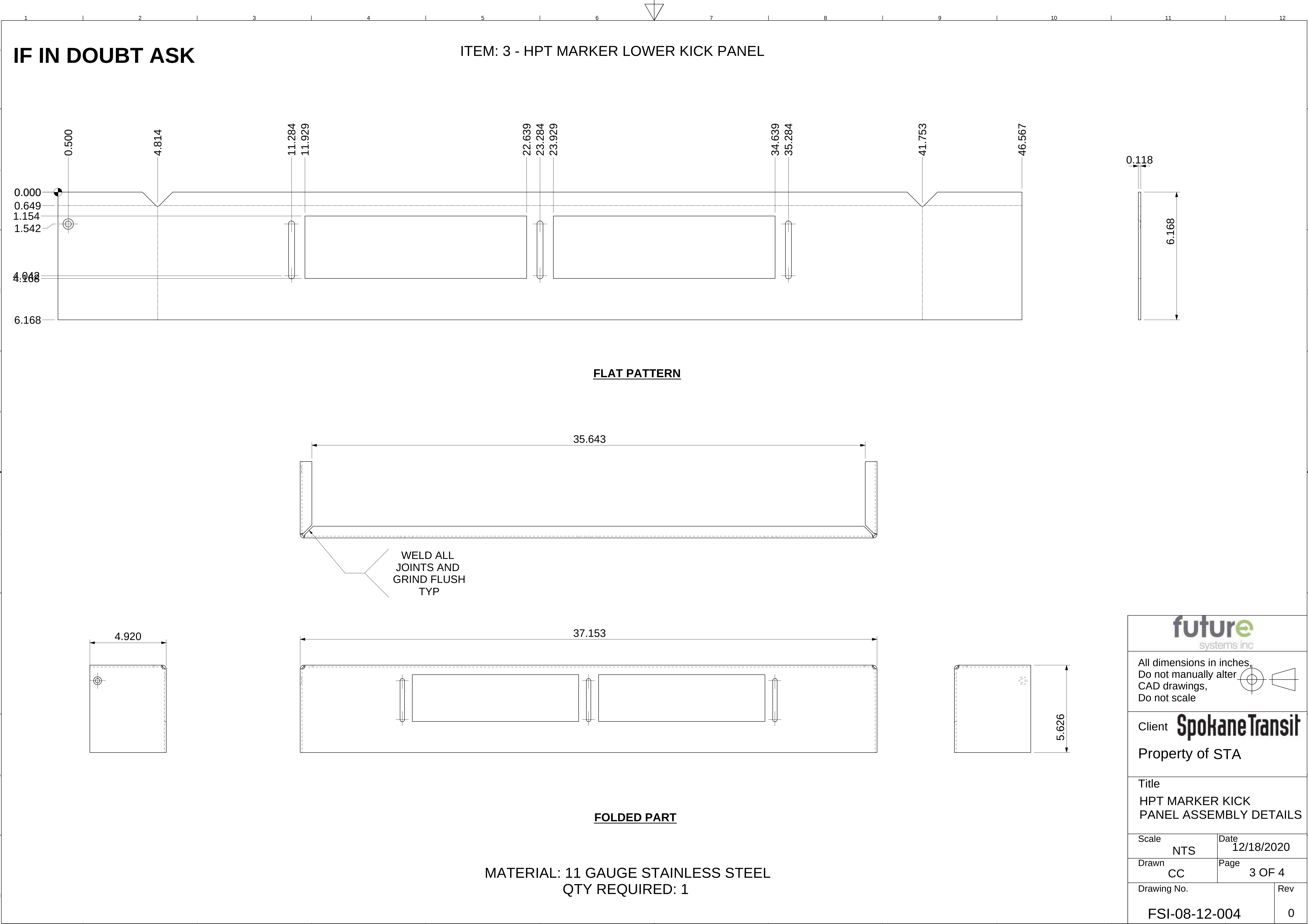
ITEM: 1 - HPT MARKER KICK PANEL



FOLDED PART

MATERIAL: 11 GAUGE STAINLESS STEEL
QTY REQUIRED: 1

All dimensions in inches, Do not manually alter CAD drawings, Do not scale	
Client SpokaneTransit	
Property of STA	
Title HPT MARKER KICK PANEL ASSEMBLY DETAILS	
Scale NTS	Date 12/18/2020
Drawn CC	Page 2 OF 4
Drawing No. FSI-08-12-004	Rev 0



future

systems inc

All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale

Client

SpokaneTransit

Property of STA

Title

HPT MARKER KICK
PANEL ASSEMBLY DETAILS

Scale

NTS

Date

12/18/2020

Drawn

CC

Page

3 OF 4

Drawing No.

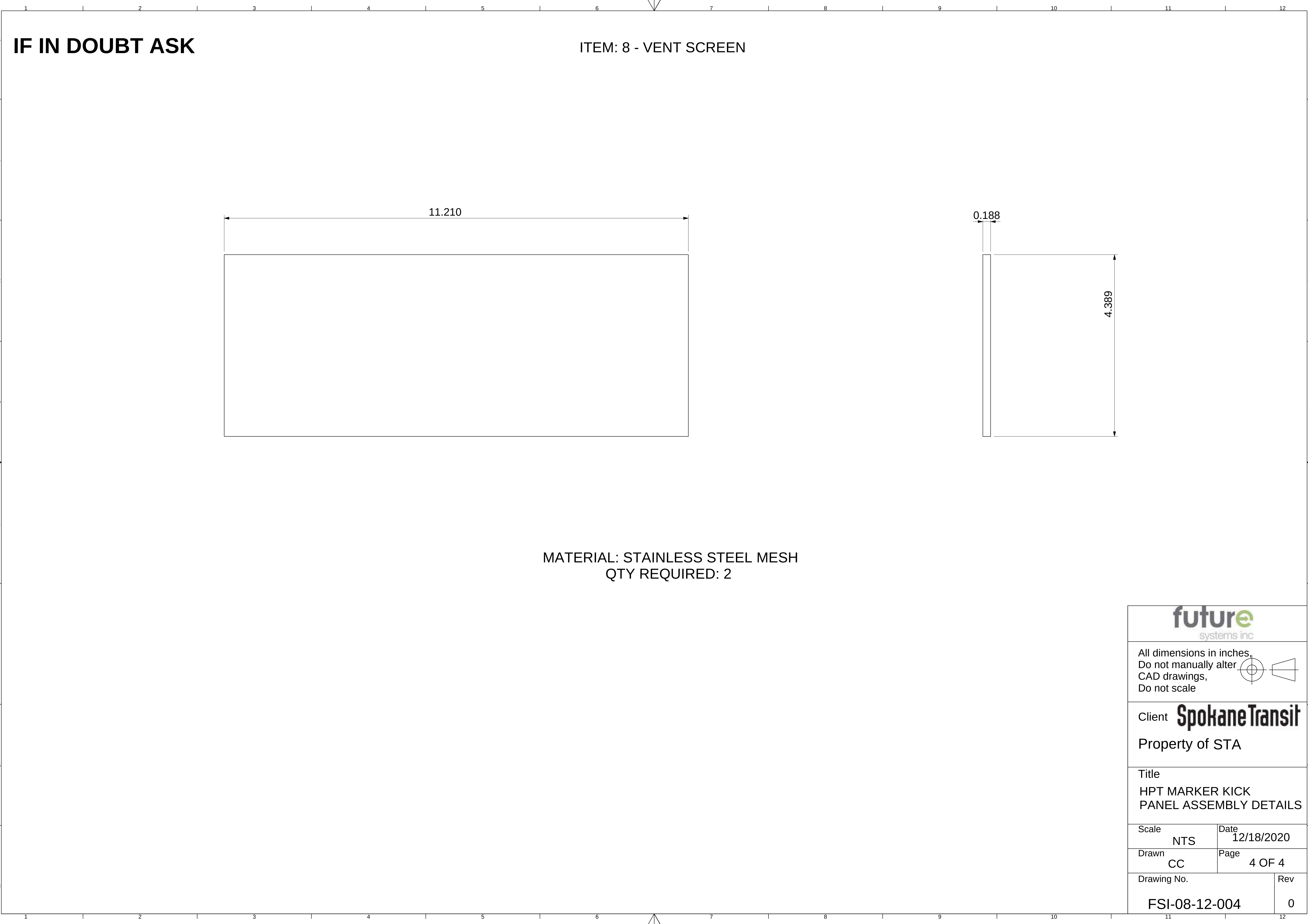
FSI-08-12-004

Rev

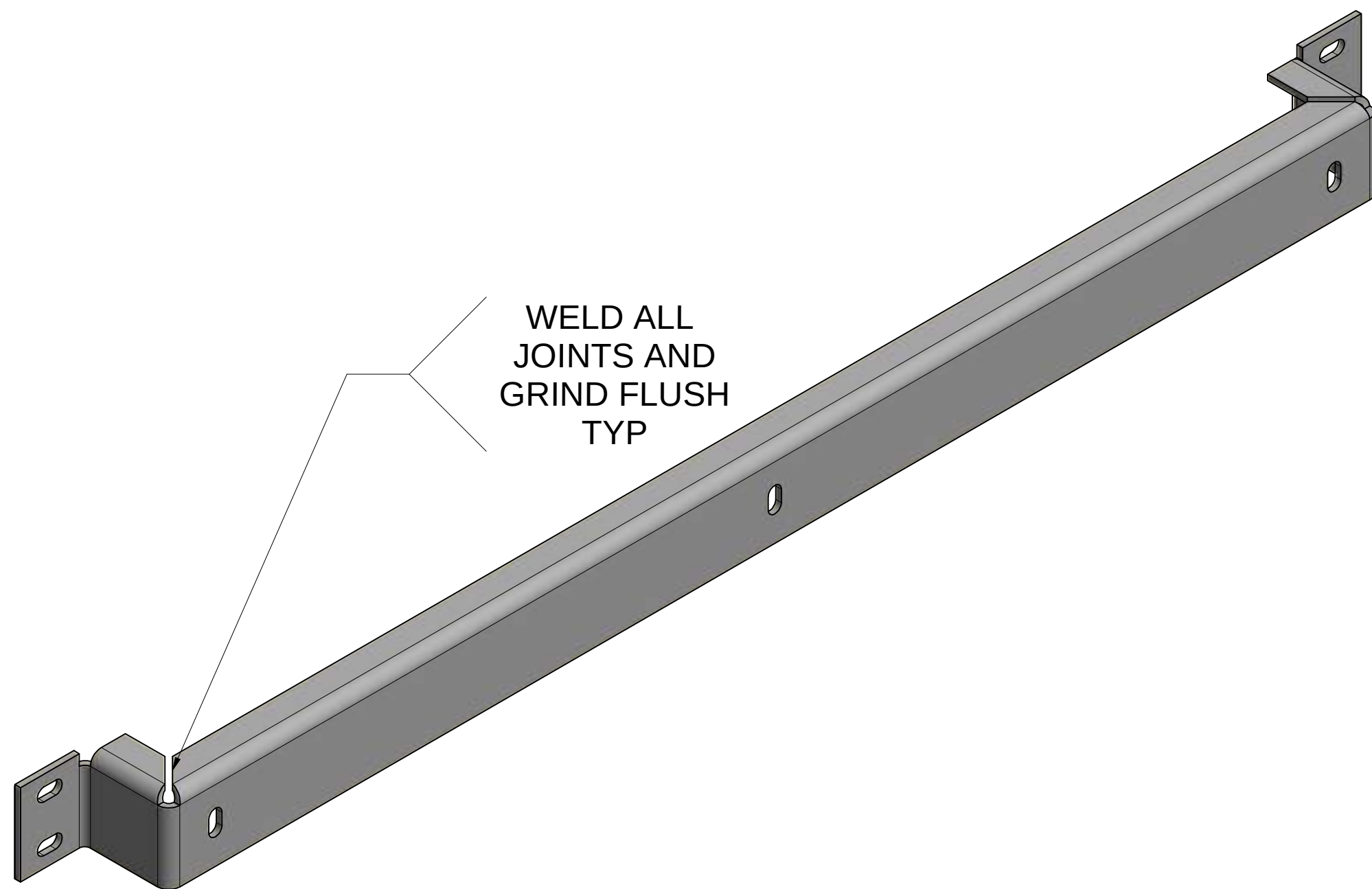
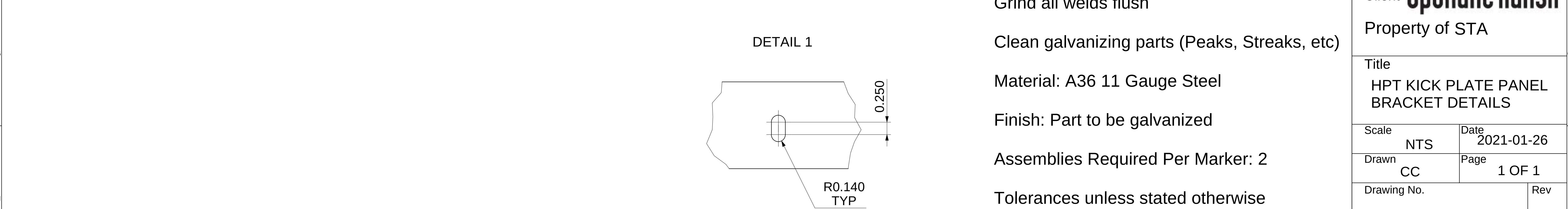
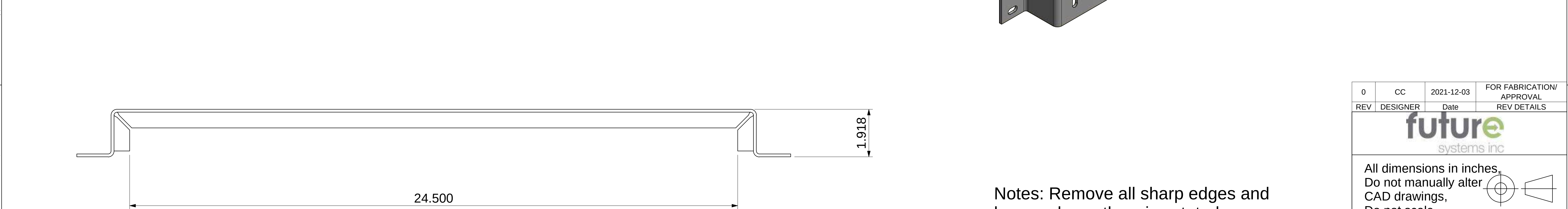
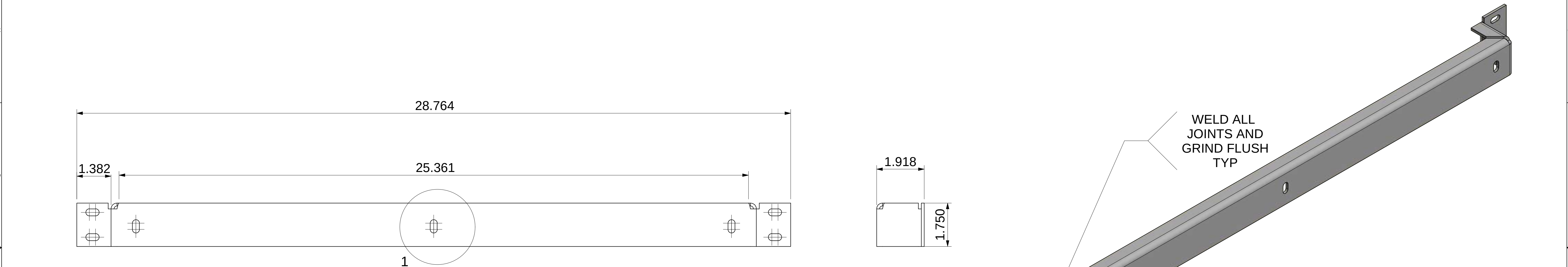
0

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A1



IF IN DOUBT ASK



Notes: Remove all sharp edges and burrs unless otherwise stated.

Grind all welds flush

Clean galvanizing parts (Peaks, Streaks, etc)

Material: A36 11 Gauge Steel

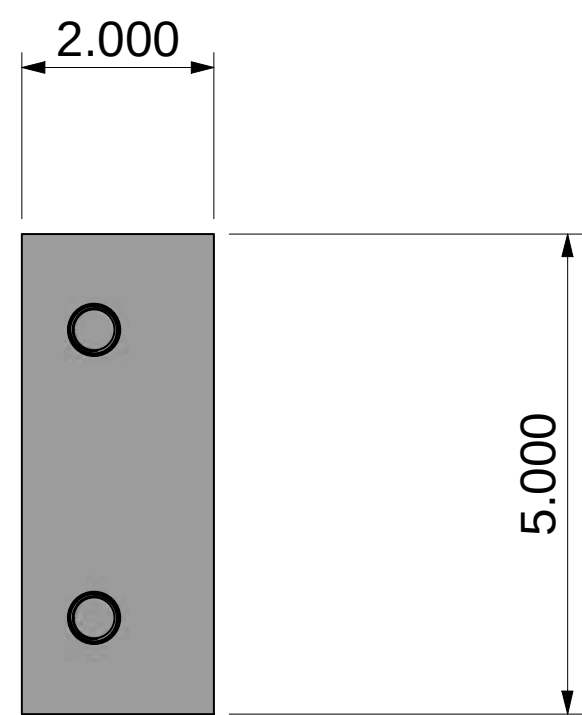
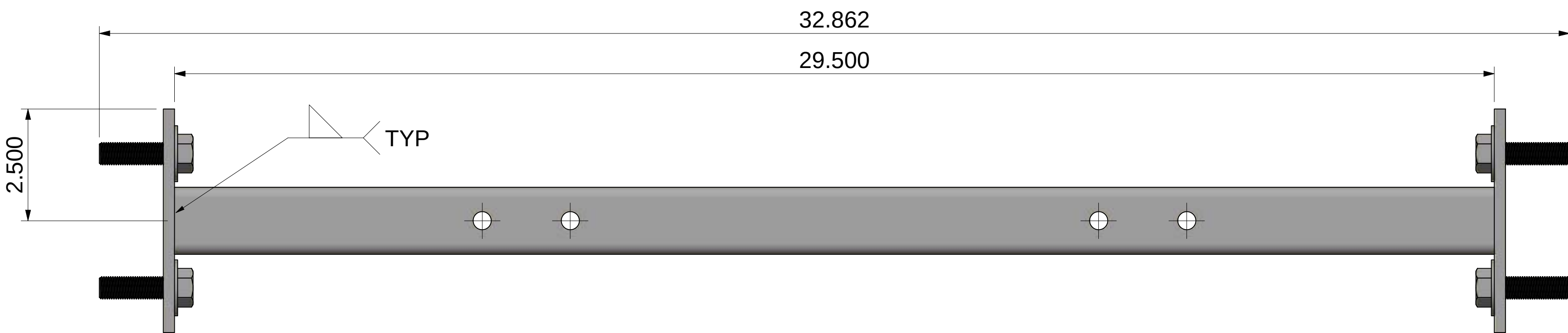
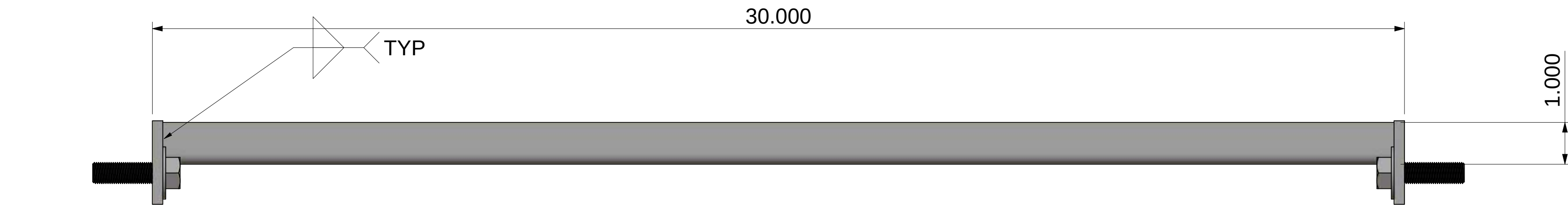
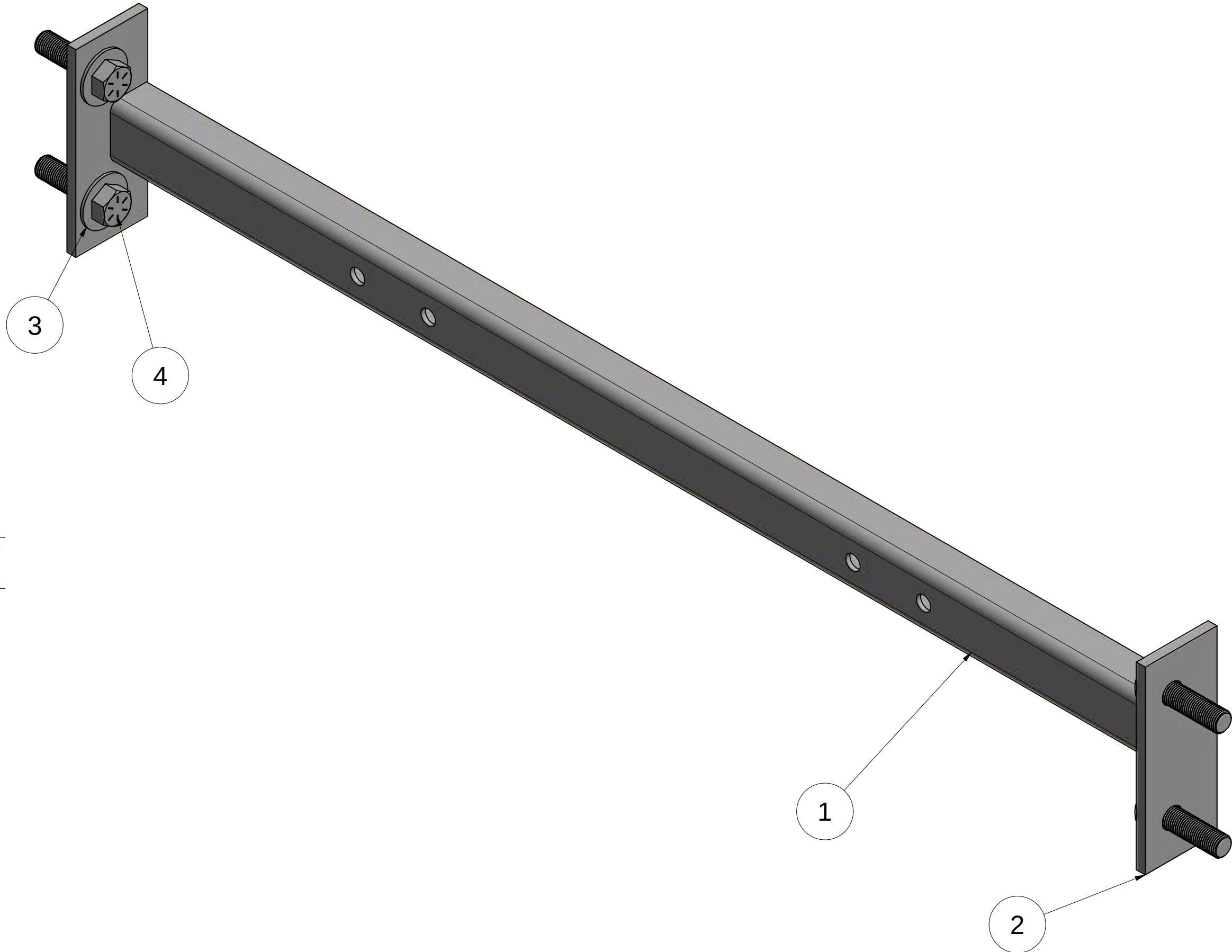
Finish: Part to be galvanized

Assemblies Required Per Marker: 2

Tolerances unless stated otherwise to be at $\pm 1/32$ "

0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
All dimensions in inches. Do not manually alter CAD drawings, Do not scale			
Client Spokane Transit			
Property of STA			
Title HPT KICK PLATE PANEL BRACKET DETAILS			
Scale NTS		Date 2021-01-26	
Drawn CC		Page 1 OF 1	
Drawing No. FSI-08-12-005			Rev 0

IF IN DOUBT ASK



Notes: Remove all sharp edges and burrs unless otherwise stated

Material: A36 Steel

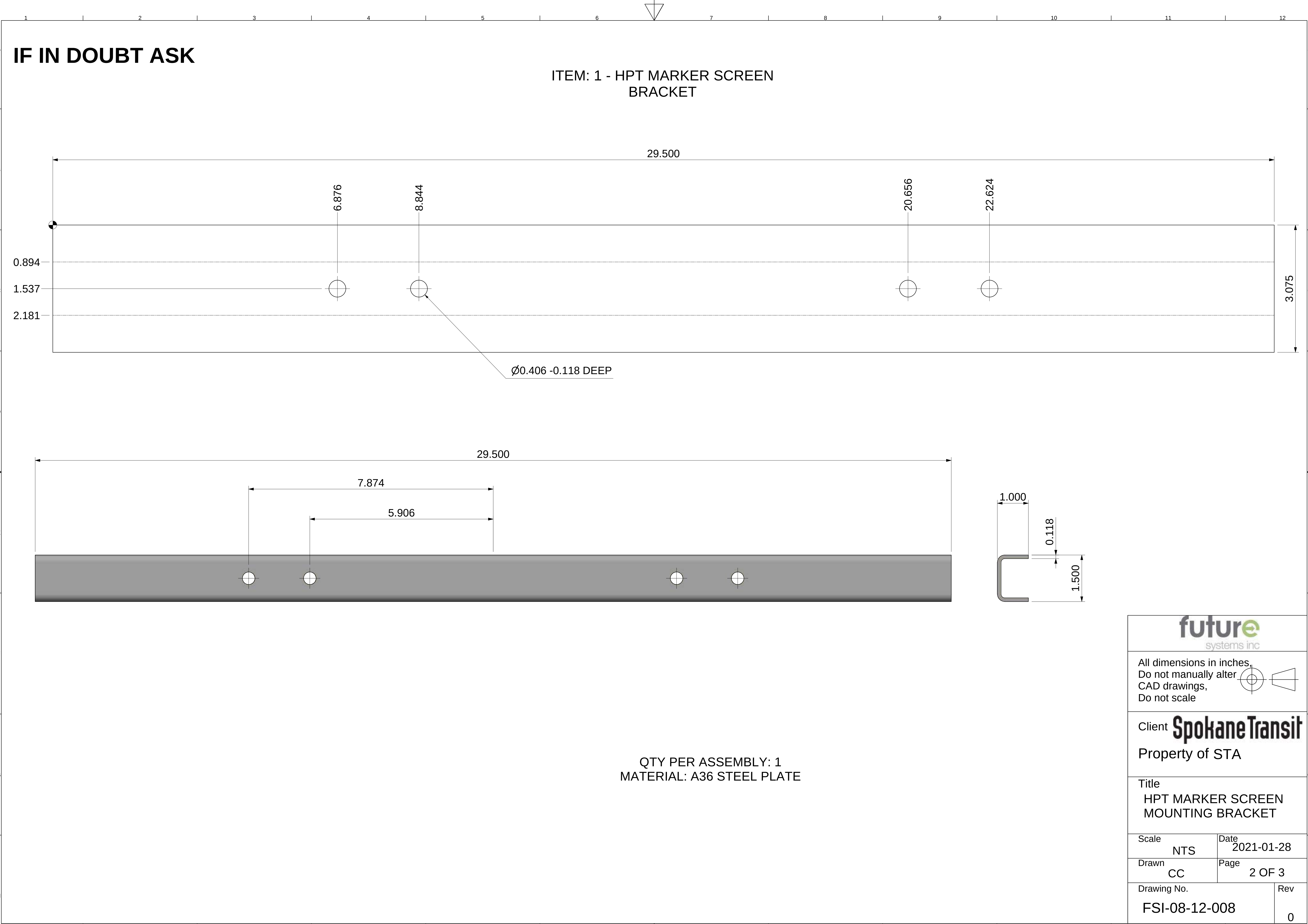
Finish: Steel Assemblies to be galvanized

Assemblies Required Per Marker: 2

Tolerances unless stated otherwise to be at ± 1/32"

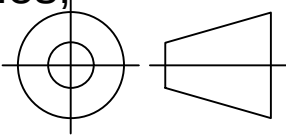
PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	HPT MARKER SCREEN BRACKET
2	2	HPT MARKER SCREEN BRACKET END PLATE
3	4	18-8 STAINLESS STEEL FLAT WASHER
4	4	1-2 UNC x 1.75in HEAVY HEX HEAD SCREW FOR STRUCTURAL APPLICATION

0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
future systems inc			
All dimensions in inches. Do not manually alter CAD drawings, Do not scale			
Client Spokane Transit			
Property of STA			
Title HPT MARKER SCREEN MOUNTING BRACKET			
Scale NTS		Date 2021-01-28	
Drawn CC		Page 1 OF 3	
Drawing No. FSI-08-12-008			Rev 0





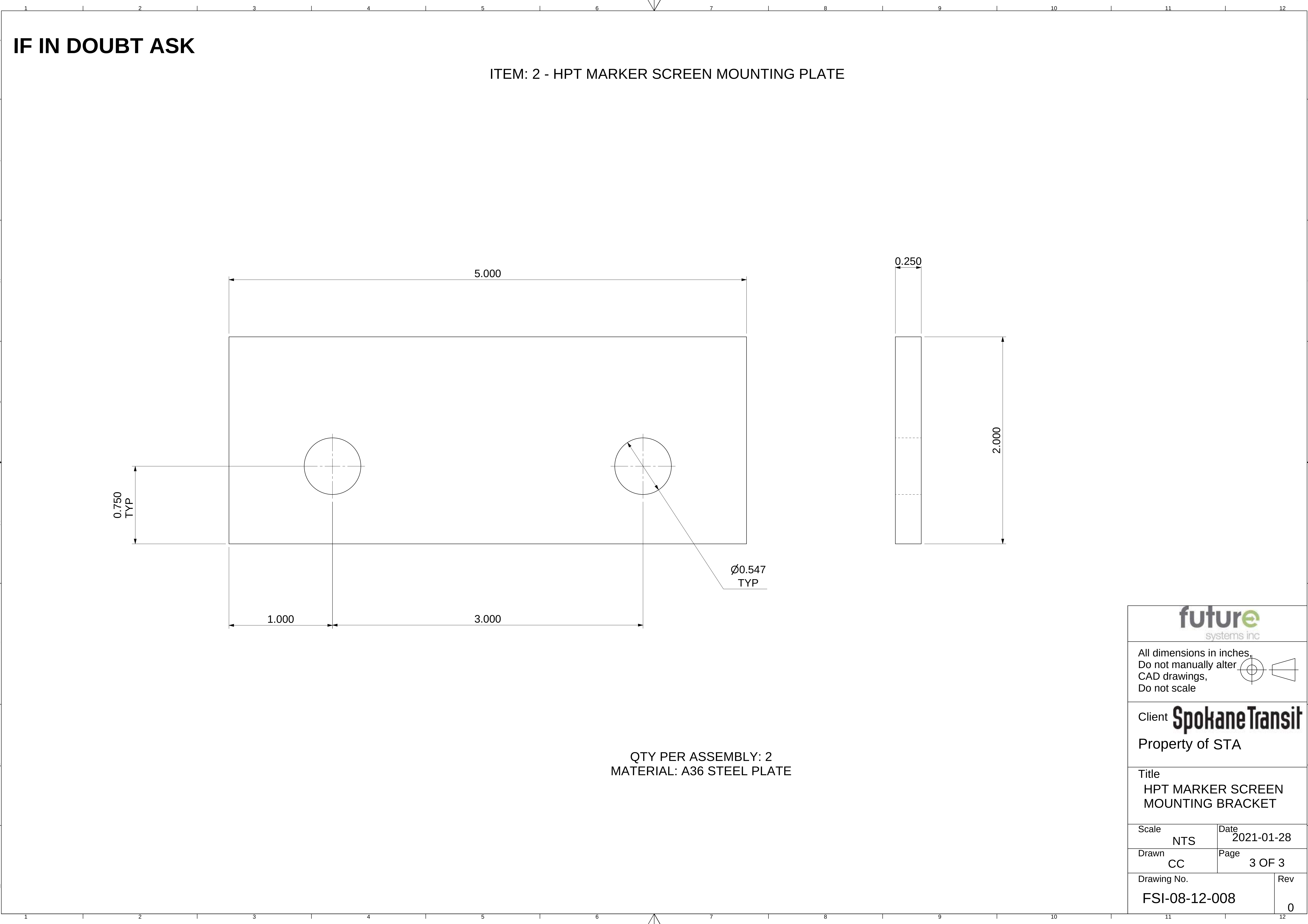
All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale



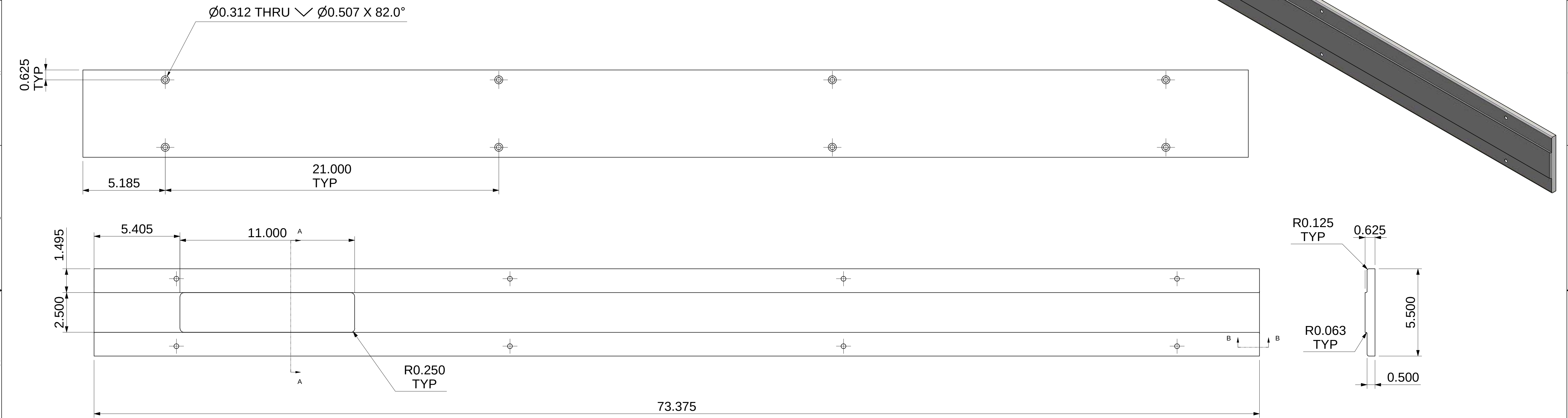
Client **Spokane Transit**
Property of STA

Title
HPT MARKER SCREEN
MOUNTING BRACKET

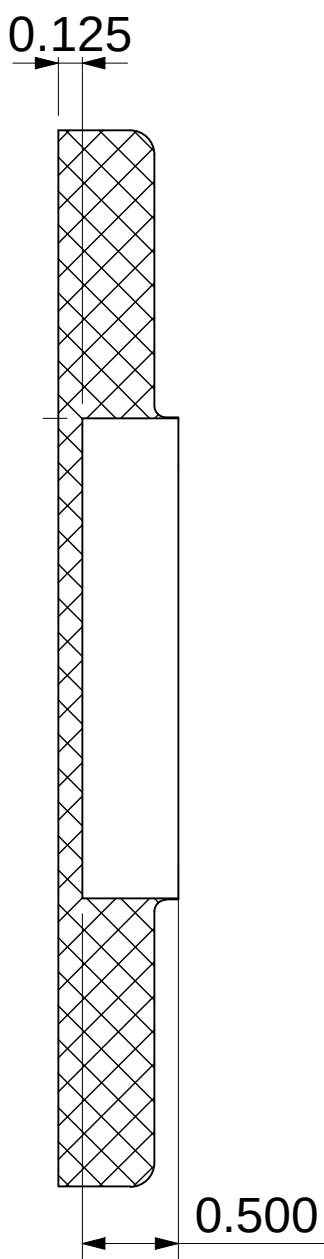
Scale NTS	Date 2021-01-28
Drawn CC	Page 2 OF 3
Drawing No. FSI-08-12-008	
Rev 0	



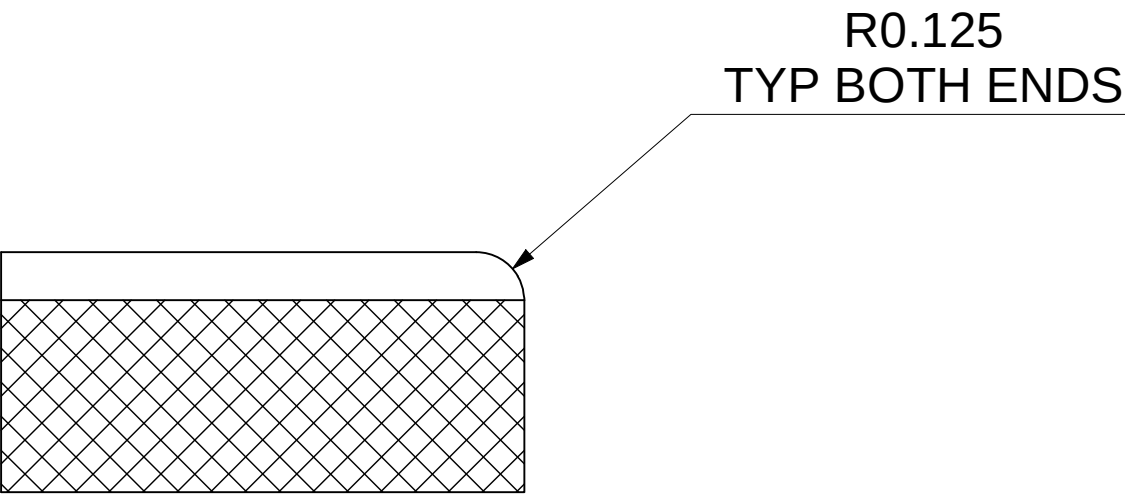
IF IN DOUBT ASK



SECTION A-A



SECTION B-B



Notes: Remove all sharp edges and burrs unless otherwise stated

Material: White Acrylic

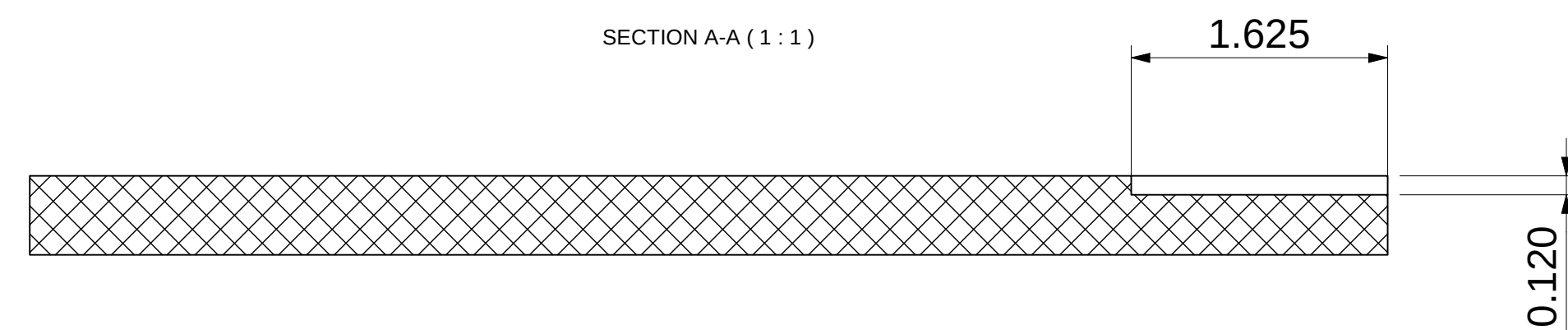
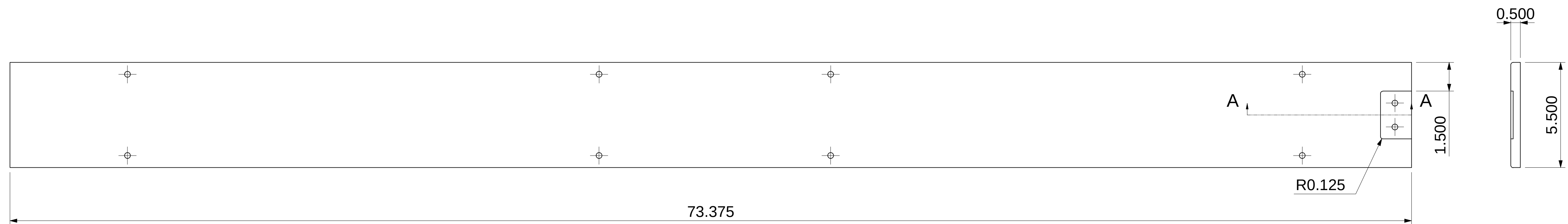
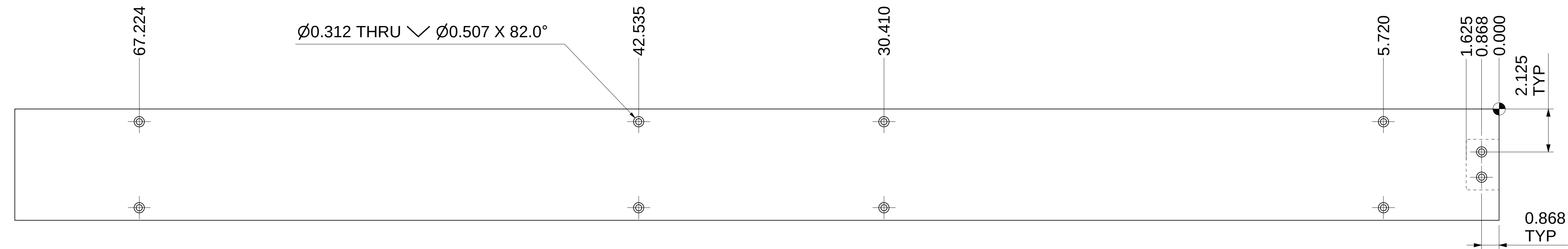
Finish: To be vinyl wrapped to client specifications. Vinyl wrap to be done by others.

Parts Required Per Marker: 2

Tolerances unless stated otherwise to be at $\pm 1/32$ "

1	CC	2021-12-08	RADIUS'D ENDS
0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
future systems inc			
All dimensions in inches. Do not manually alter CAD drawings, Do not scale			
Client Spokane Transit			
Property of STA			
Title BOTTOM SIDE COVER DETAILS			
Scale NTS		Date 2021-01-28	
Drawn CC		Page 1 OF 1	
Drawing No. FSI-08-12-009			Rev 1

IF IN DOUBT ASK



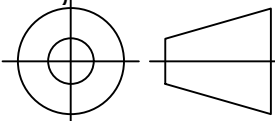
Notes: Remove all sharp edges and burrs unless otherwise stated

Material: Acrylic

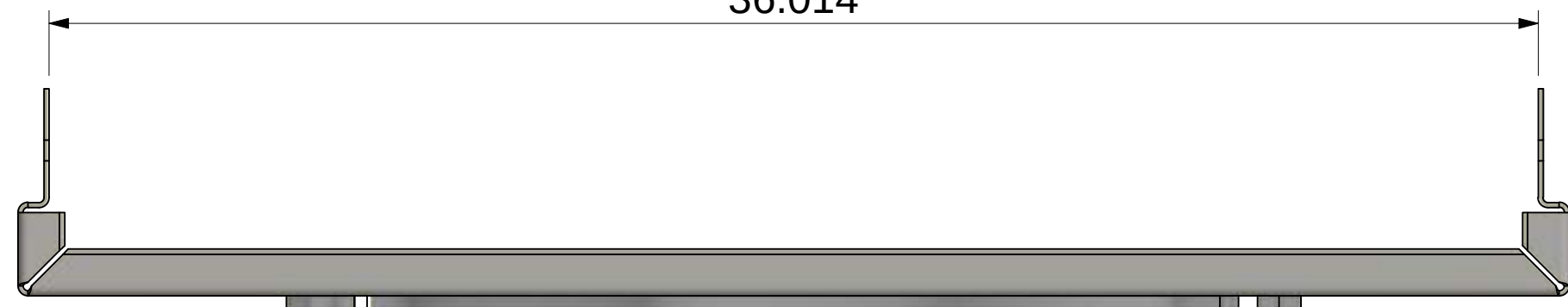
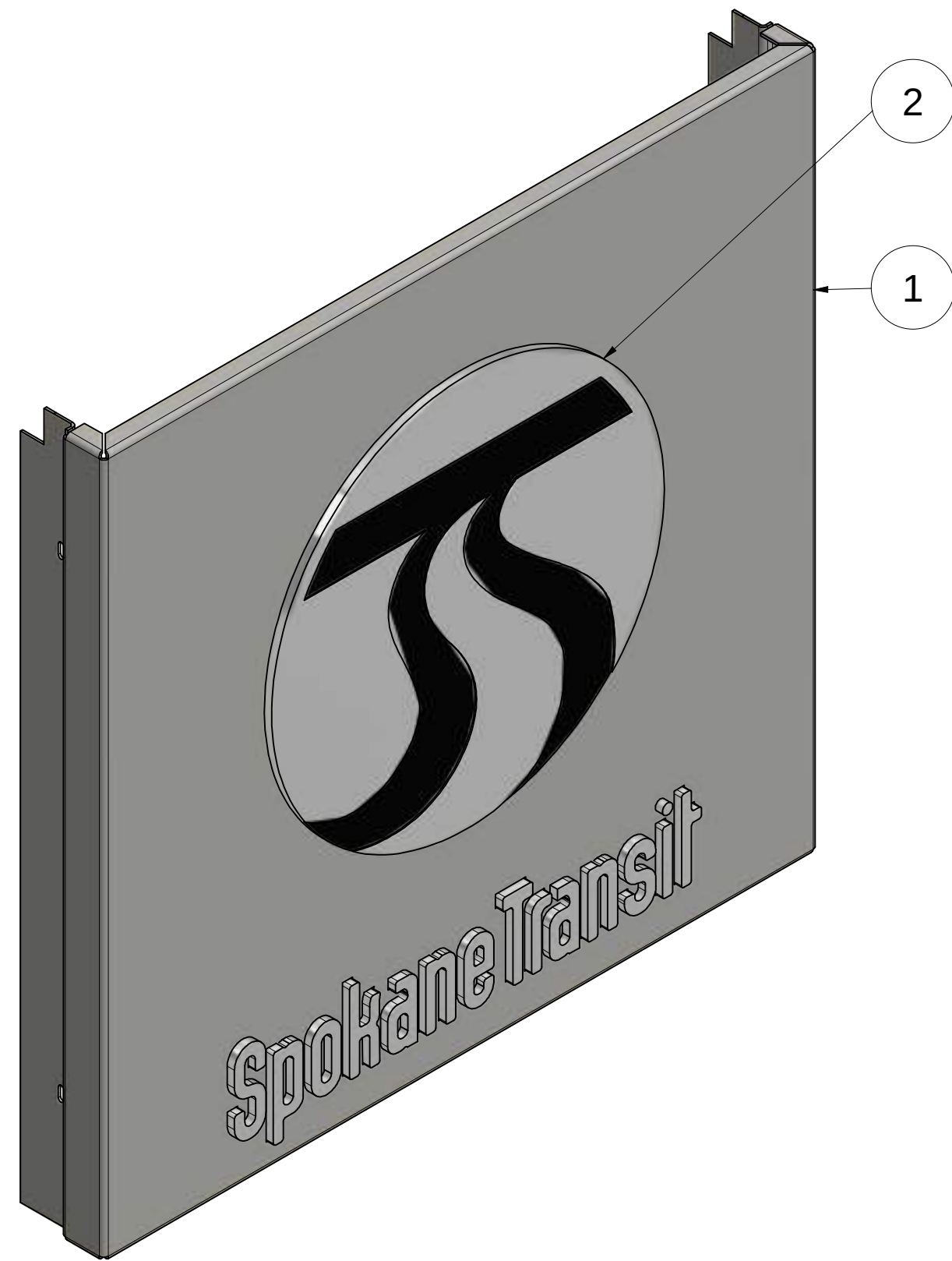
Finish: To be vinyl wrapped as per client specifications

Parts Required Marker Assembly: 2

Tolerances unless stated otherwise
to be at $\pm 1/32"$

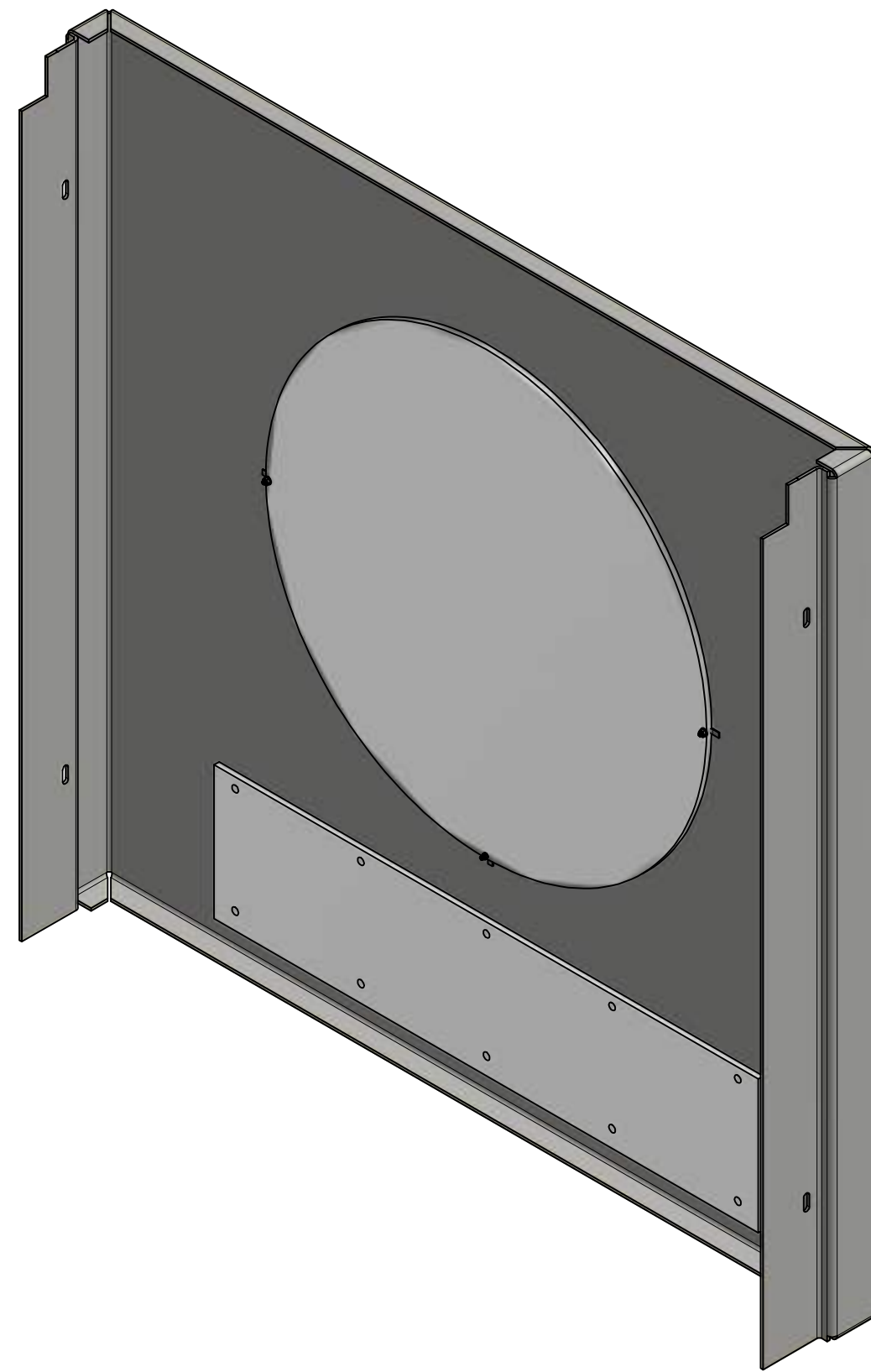
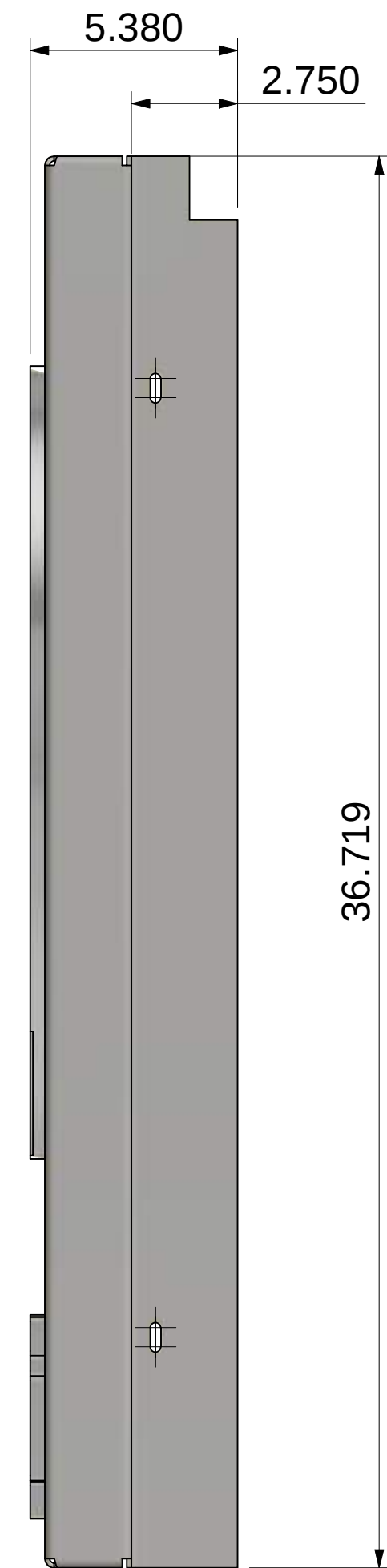
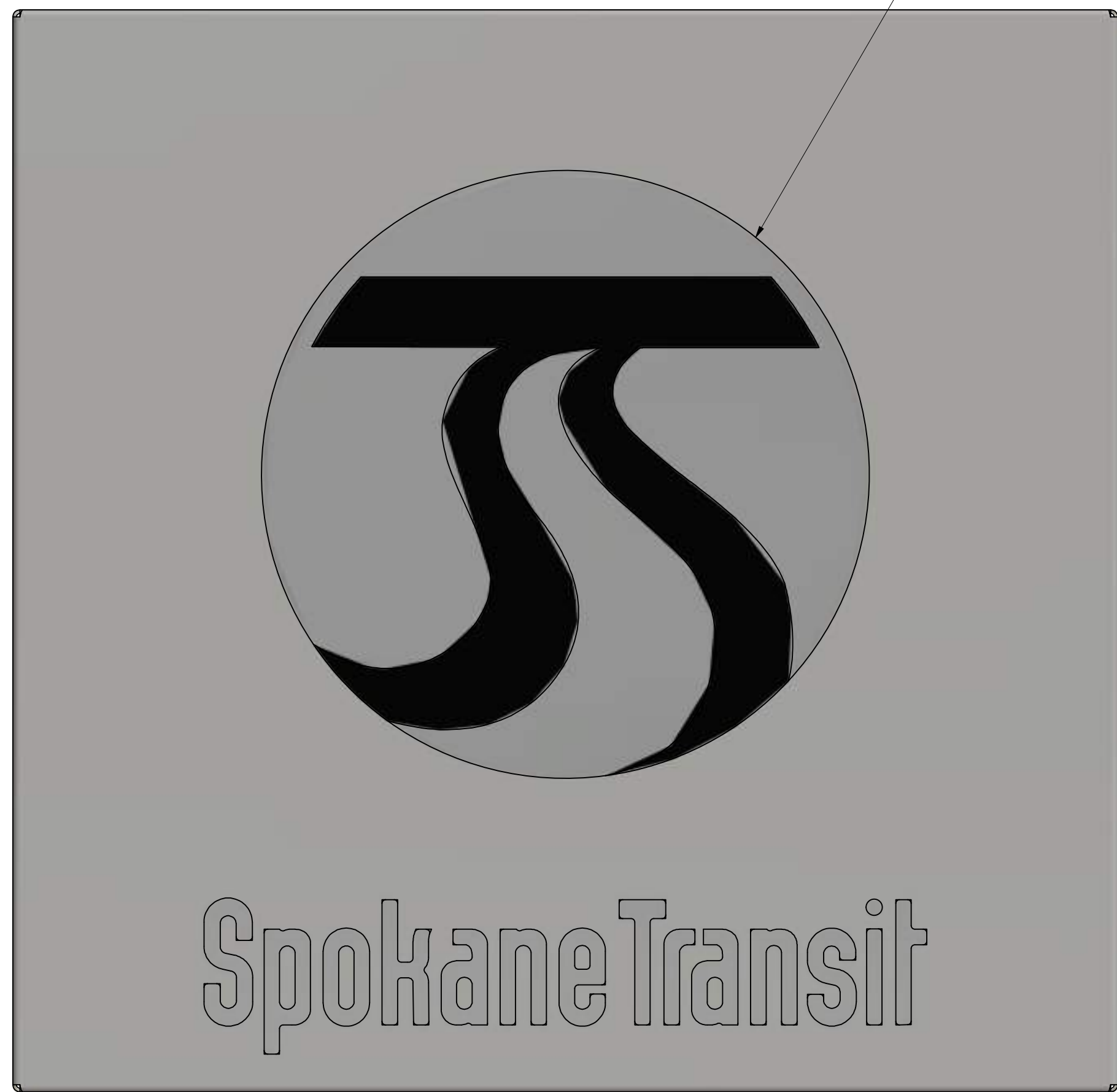
0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
			
All dimensions in inches, Do not manually alter CAD drawings, Do not scale 			
Client Spokane Transit Property of STA			
Title HPT MARKER TOP SIDE COVER DETAILS			
Scale		Date	
NTS		2021-01-28	
Drawn		Page	
CC		1 OF 1	
Drawing No.			Rev
FSI-08-22-001			0

IF IN DOUBT ASK



CLEAR SILICONE TO BE APPLIED BY GENERAL CONTRACTOR ONCE PUSH THROUGH AND WRAP IS INSTALLED FOR WATER TIGHT SEAL.

CAN BE APPLIED ON FRONT OR BACK OF LOGO.



Notes: Remove all sharp edges and burrs unless otherwise stated.

All center cut outs to be kept (p,o,a, and e) and attached once final lighting and push through lettering is installed.

Assembly will be pre-assembled but not siliconed together for final vinyl wrap finish on stainless steel cladding

Material: 304 Stainless Steel, and Translucent Acrylic

Finish: Stainless Cladding to be vinyl wrapped. All cladding vinyl wrap to be done by others.

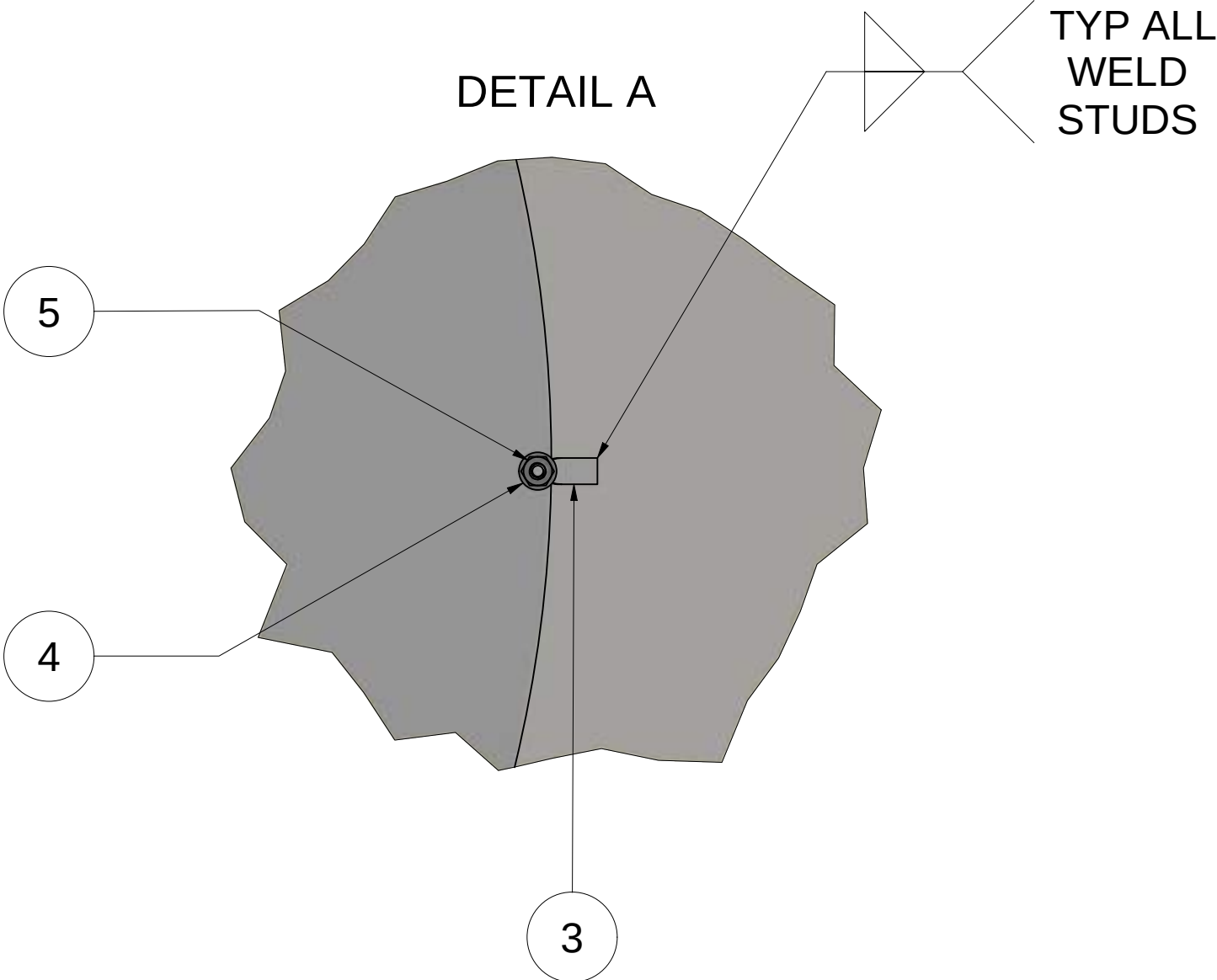
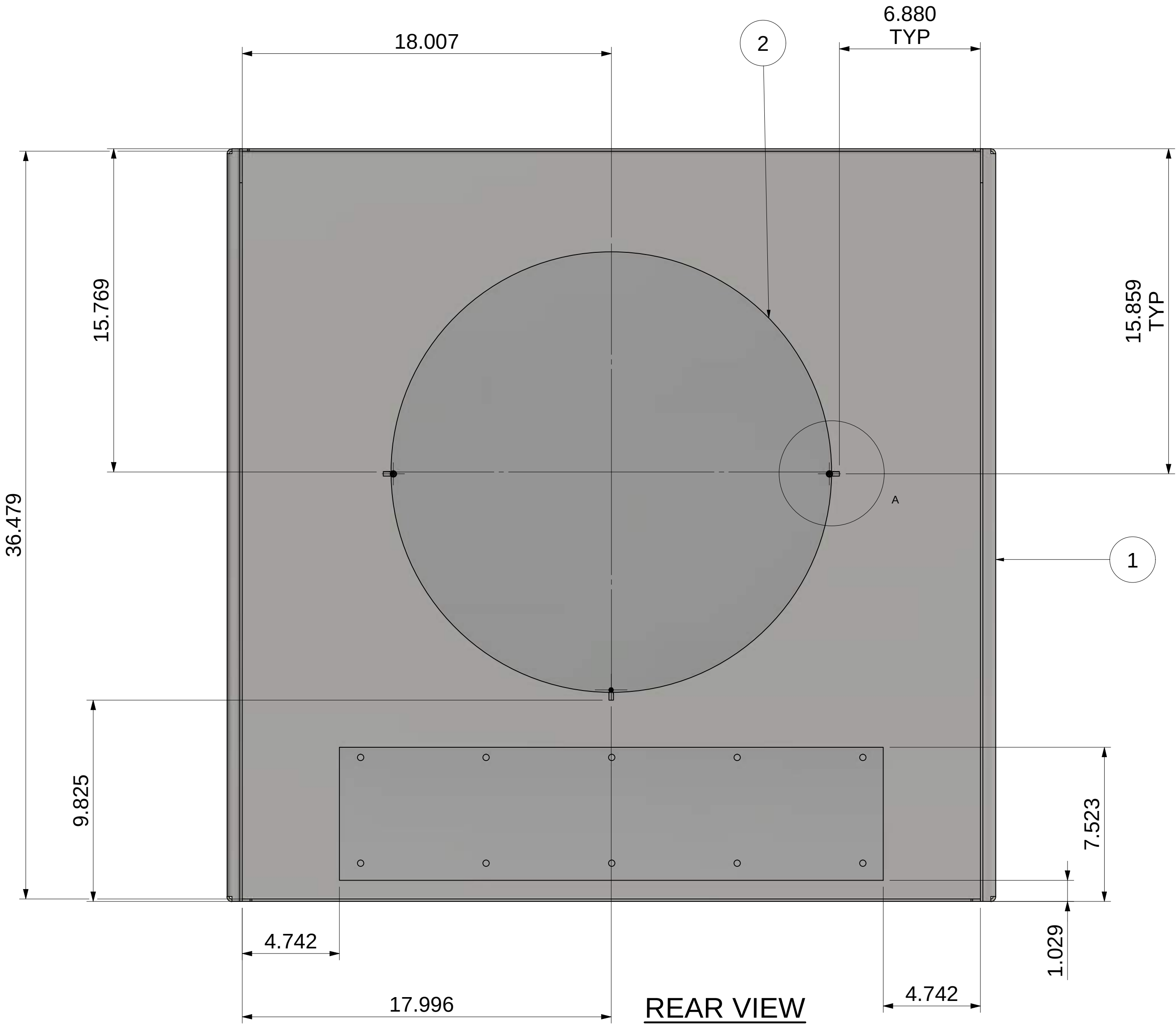
Panels Required Per Marker: 2

Tolerances unless stated otherwise to be at $\pm 1/32$ "

PARTS LIST			
ITEM	QTY	DRAWING NUMBER	DESCRIPTION
1	1	HPT MARKER UPPER FRONT PANEL	SEE SHEET 3 AND 4
2	1	ACRYLIC SPOKANE BUG PUSH THROUGH LOGO	SEE SHEET 5
3	13	TYPE 18-8 SS RIGHT-ANGLE WELD STUD	96466A010 McMaster-Carr OR EQUIVALANT
4	13	No. 6 - PLAIN WASHER	90618A300 - McMaster-Carr OR EQUIVALANT
5	13	HEX NUT	92362A120 - McMaster-Carr OR EQUIVALANT
6	1	24 IN SPOKANE LETTERING LOGO	SEE SHEET 6

0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
All dimensions in inches. Do not manually alter CAD drawings, Do not scale			
Client Spokane Transit			
Property of STA			
Title HPT MARKER TOP PANEL SPOKANE CUTOUT DETAIL			
Scale NTS		Date 2021-02-01	
Drawn CC		Page 1 OF 6	
Drawing No. FSI-08-12-012			Rev 0

IF IN DOUBT ASK



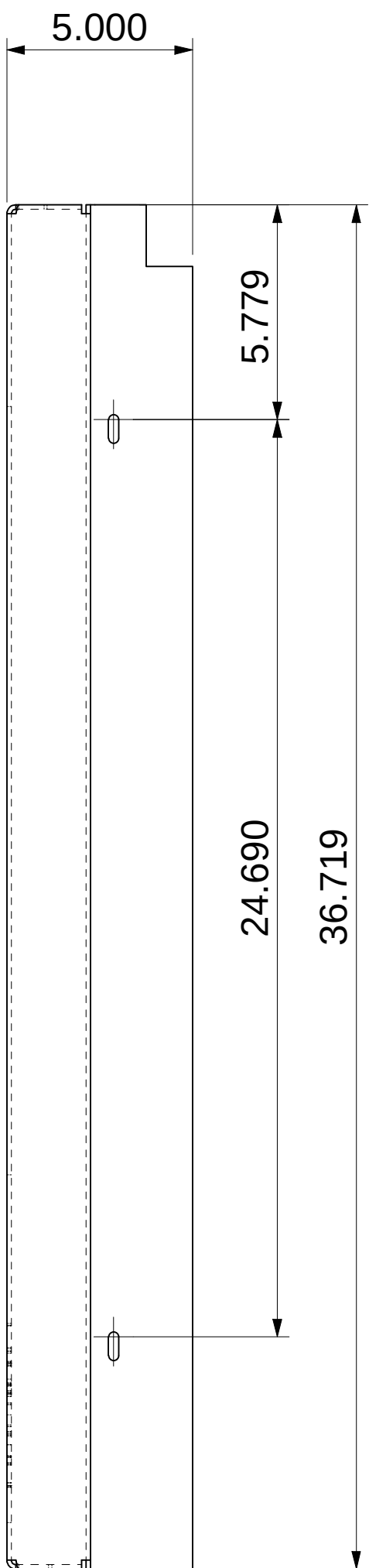
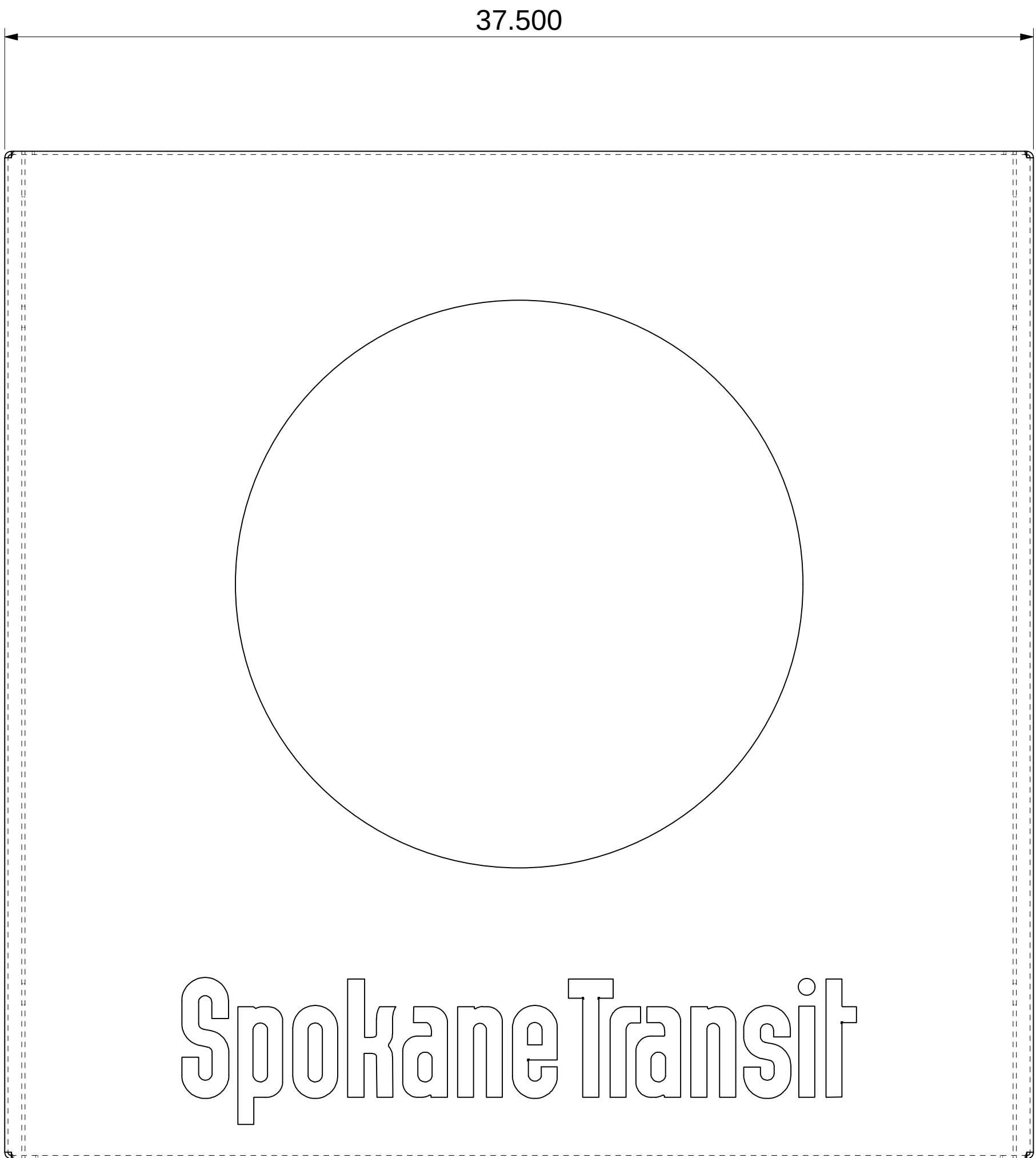
All dimensions in inches. Do not manually alter CAD drawings, Do not scale	
Client	Spokane Transit
Property of STA	
Title HPT MARKER TOP PANEL SPOKANE CUTOUT DETAIL	
Scale NTS	Date 2021-02-01
Drawn CC	Page 2 OF 6
Drawing No. FSI-08-12-012	Rev 0

PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	HPT MARKER UPPER FRONT PANEL SEE SHEET 3 AND 4
2	1	ACRYLIC SPOKANE BUG PUSH THROUGH LOGO SEE SHEET 5
3	13	TYPE 18-8 SS RIGHT-ANGLE WELD STUD 96466A010 McMaster-Carr OR EQUIVALANT
4	13	No. 6 - PLAIN WASHER 90618A300 - McMaster-Carr OR EQUIVALANT
5	13	HEX NUT 92362A120 - McMaster-Carr OR EQUIVALANT
6	1	24 IN SPOKANE LETTERING LOGO SEE SHEET 6

IF IN DOUBT ASK

ITEM: 1 - HPT MARKER UPPER FRONT PANEL

FOLDED PART - SEE SHEET 4 FOR
FLAT PATTERN



MATERIAL: 11 GAUGE STAINLESS STEEL
QTY REQUIRED: 1

All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale

Client **SpokaneTransit**

Property of STA

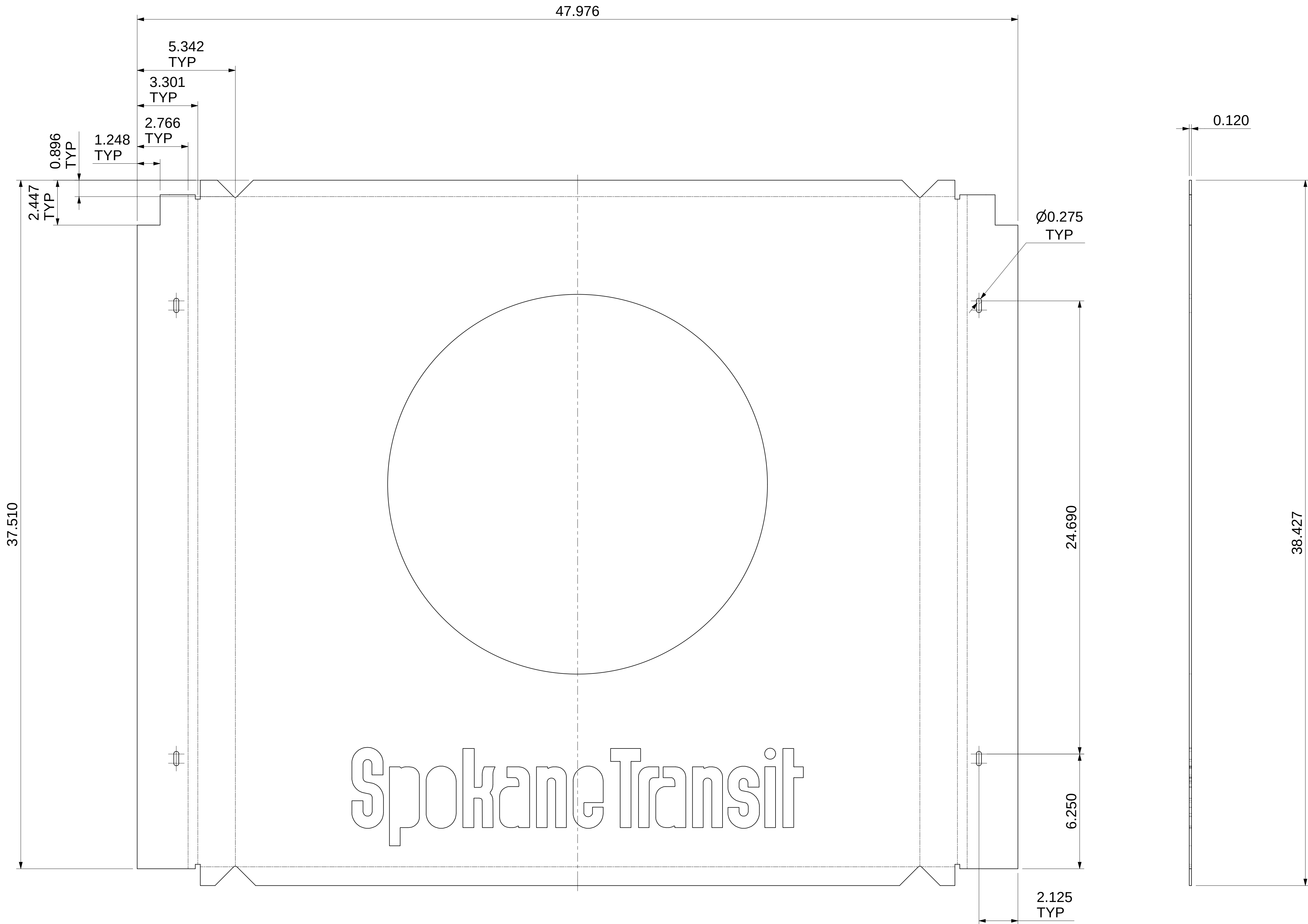
Title
HPT MARKER TOP PANEL
SPOKANE CUTOUT DETAIL

Scale NTS	Date 2021-02-01
Drawn CC	Page 3 OF 6
Drawing No. FSI-08-12-012	Rev 0

IF IN DOUBT ASK

E ITEM: 1 - HPT MARKER UPPER FRONT PANEL

FLAT PATTERN - SEE SHEET 3 FOR
FOLDED PART



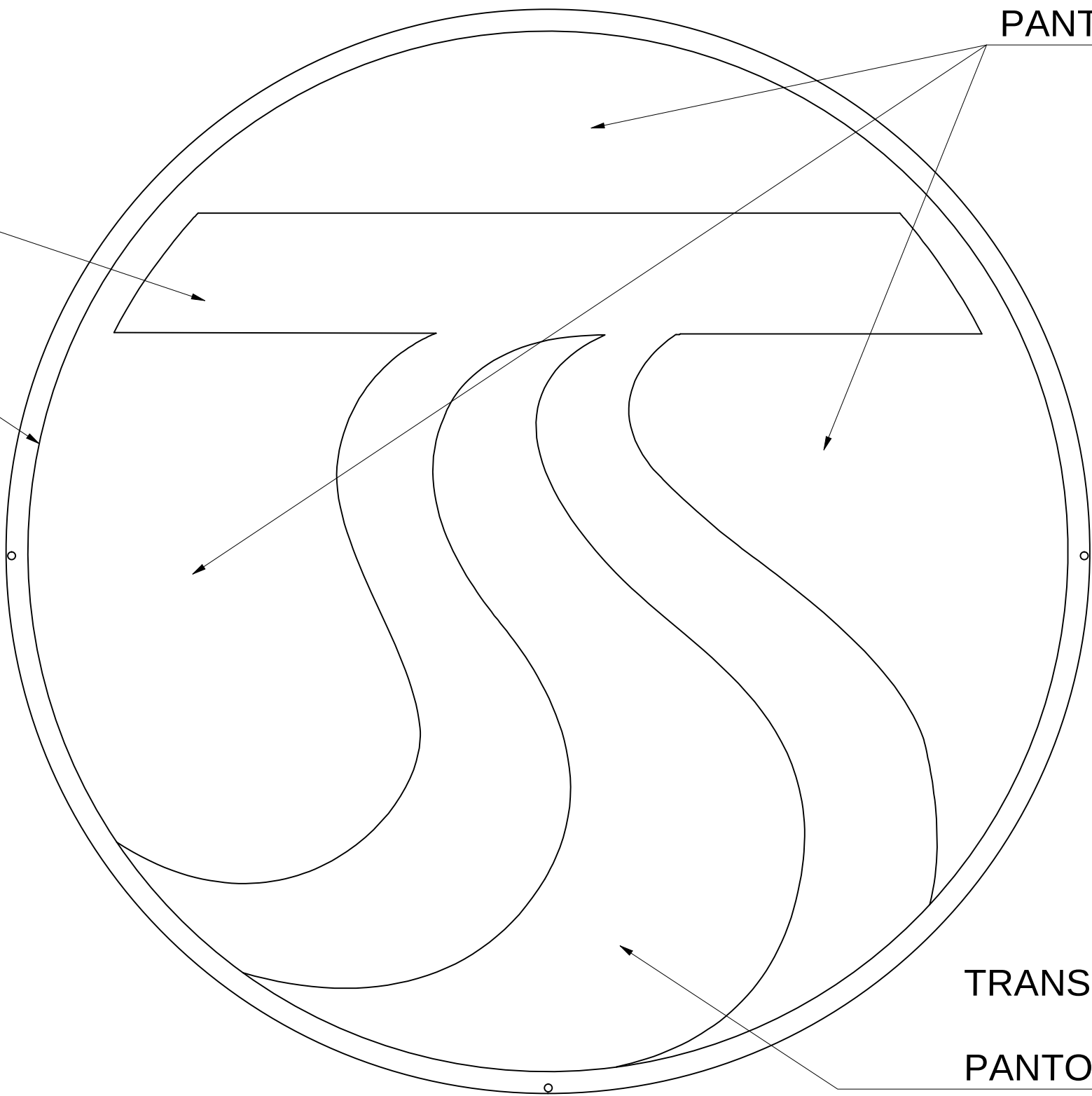
MATERIAL: 11 GAUGE STAINLESS STEEL
QTY REQUIRED: 1

future systems inc	
All dimensions in inches. Do not manually alter CAD drawings, Do not scale	
Client	Spokane Transit
Property of STA	
Title HPT MARKER TOP PANEL SPOKANE CUTOUT DETAIL	
Scale NTS	Date 2021-02-01
Drawn CC	Page 4 OF 6
Drawing No. FSI-08-12-012	Rev 0

IF IN DOUBT ASK

"ROAD" SECTION TO BE LIT
USING TRANSLUCENT WHITE
VINYL

LOGO TO BE EDGE LIT



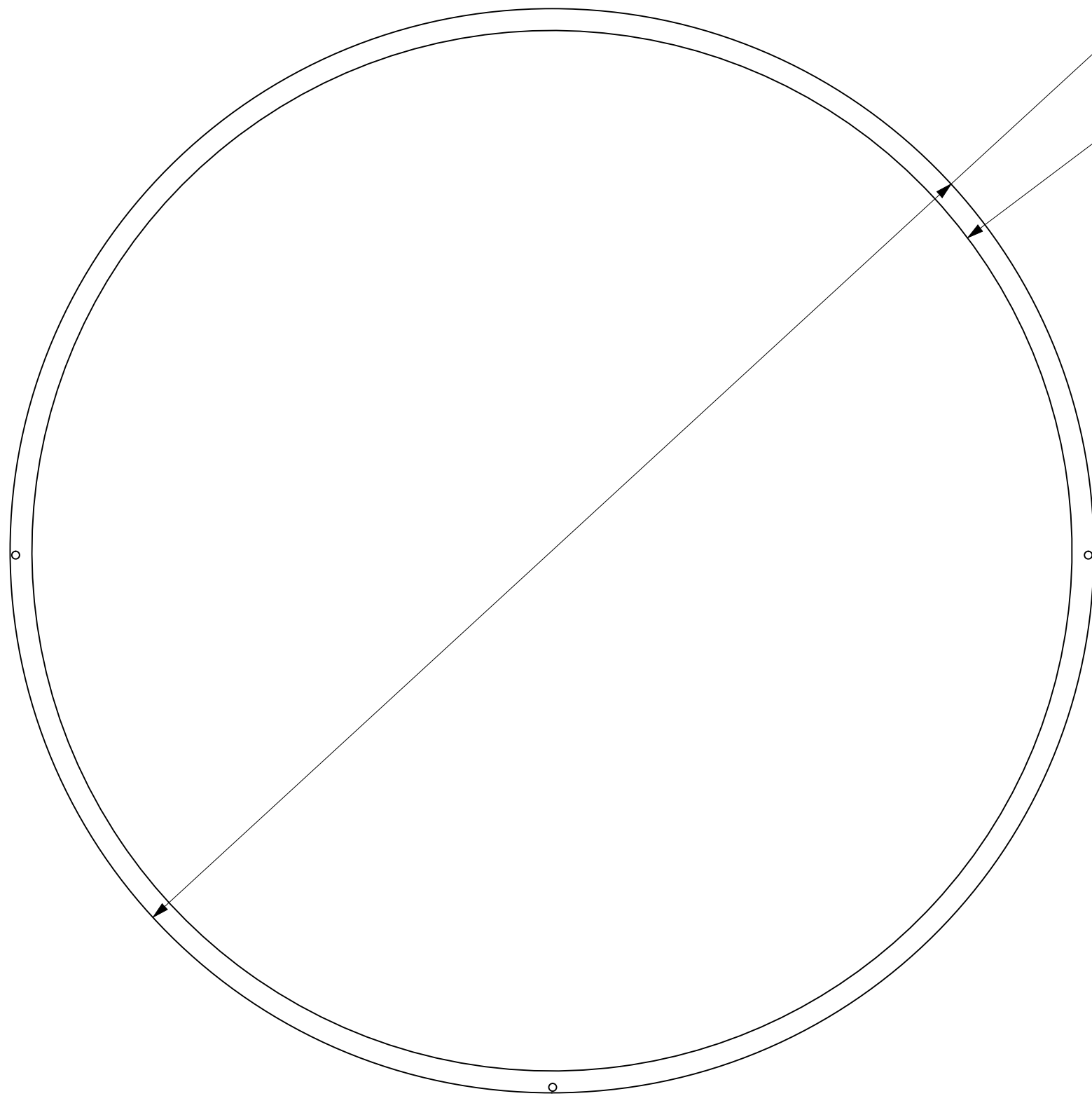
TRANSLUCENT VINYL

PANTONE C=100

TRANSLUCENT BLOCKING VINYL

PANTONE C=43 M=0 Y=94 K=0

SPOKANE BUG LOGO
WITH VINYL



Ø21.487

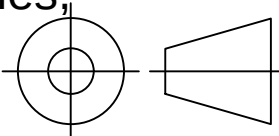
R10.311

SPOKANE BUG LOGO
WITH OUT VINYL
(SINGLE ACRYLIC PART)

ITEM: 2 - ACRYLIC SPOKANE
BUG LOGO
MATERIAL: TRANSLUCENT ACRYLIC
QTY REQUIRED: 1

future
systems inc

All dimensions in inches.
Do not manually alter
CAD drawings,
Do not scale



Client **Spokane Transit**

Property of STA

Title
HPT MARKER TOP PANEL
SPOKANE CUTOUT DETAIL

Scale
NTS

Date
2021-02-01

Drawn
CC

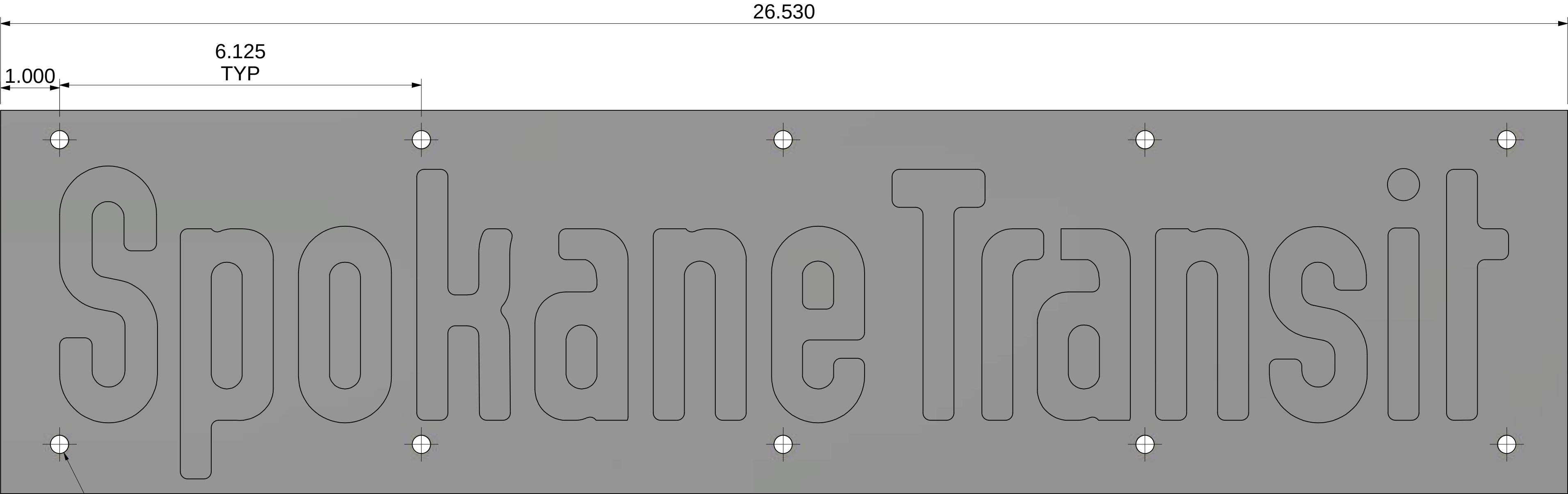
Page
5 OF 6

Drawing No.
FSI-08-12-012

Rev
0

IF IN DOUBT ASK

ITEM: 3 - ACRYLIC SPOKANE PUSH
THROUGH LETTERING LOGO



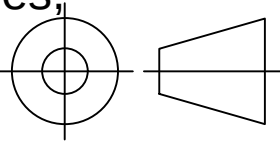
0.750

MATERIAL: CLEAR ACRYLIC WITH
TRANSLUCENT WHITE VINYL WRAP

***ENTIRE ACRYLIC PIECE TO BE WRAPPED IN WHITE
TRANSLUCENT VINYL**



All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale



Client **Spokane Transit**
Property of STA

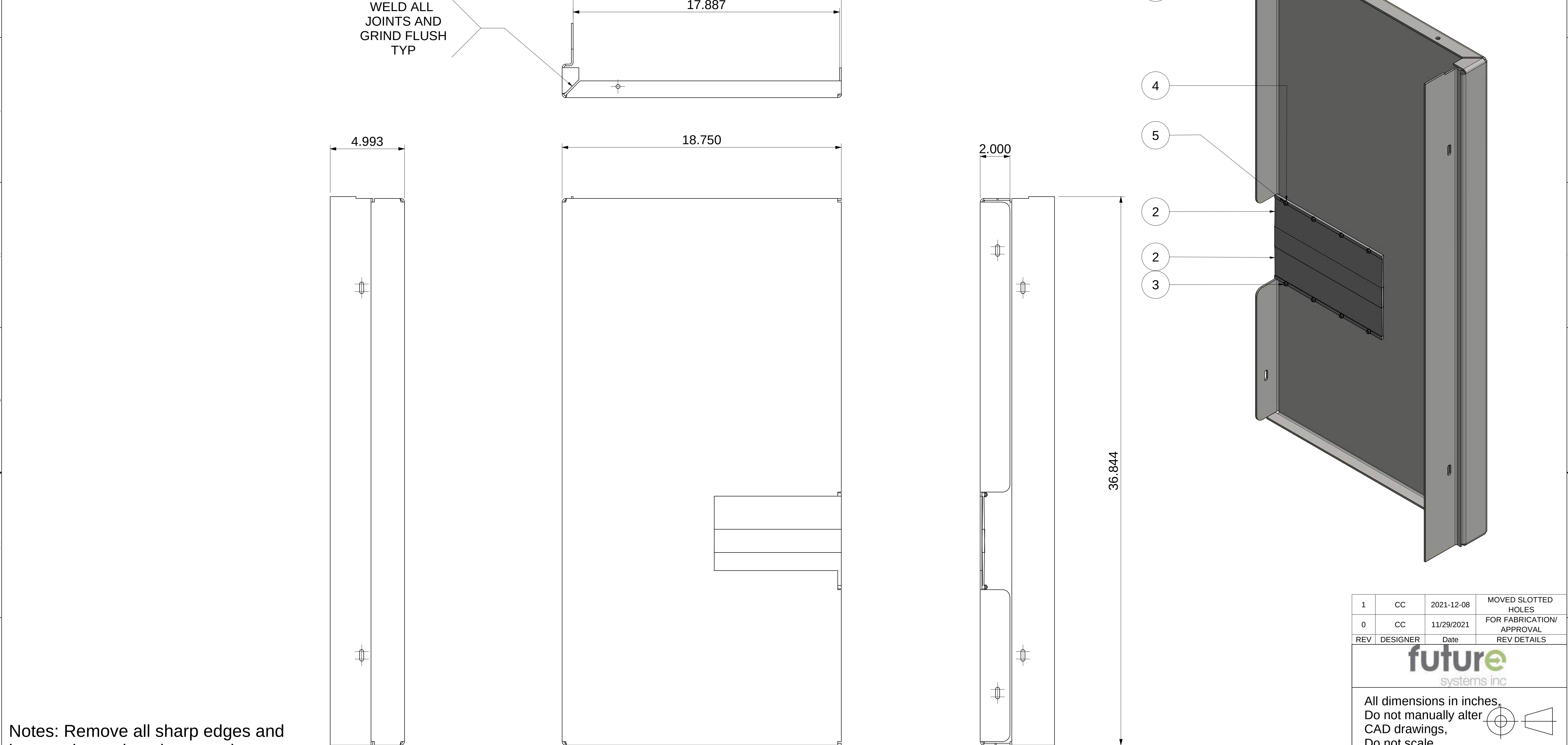
Title
HPT MARKER TOP PANEL
SPOKANE CUTOUT DETAIL

Scale NTS Date 2021-02-01

Drawn CC Page 6 OF 6

Drawing No. FSI-08-12-012 Rev 0

IF IN DOUBT ASK



Notes: Remove all sharp edges and burrs unless otherwise stated.

Material: Stainless Steel

Finish: Assemblies to be vinyl wrapped to client specfications. All cladding vinyl wrap to be done by others.

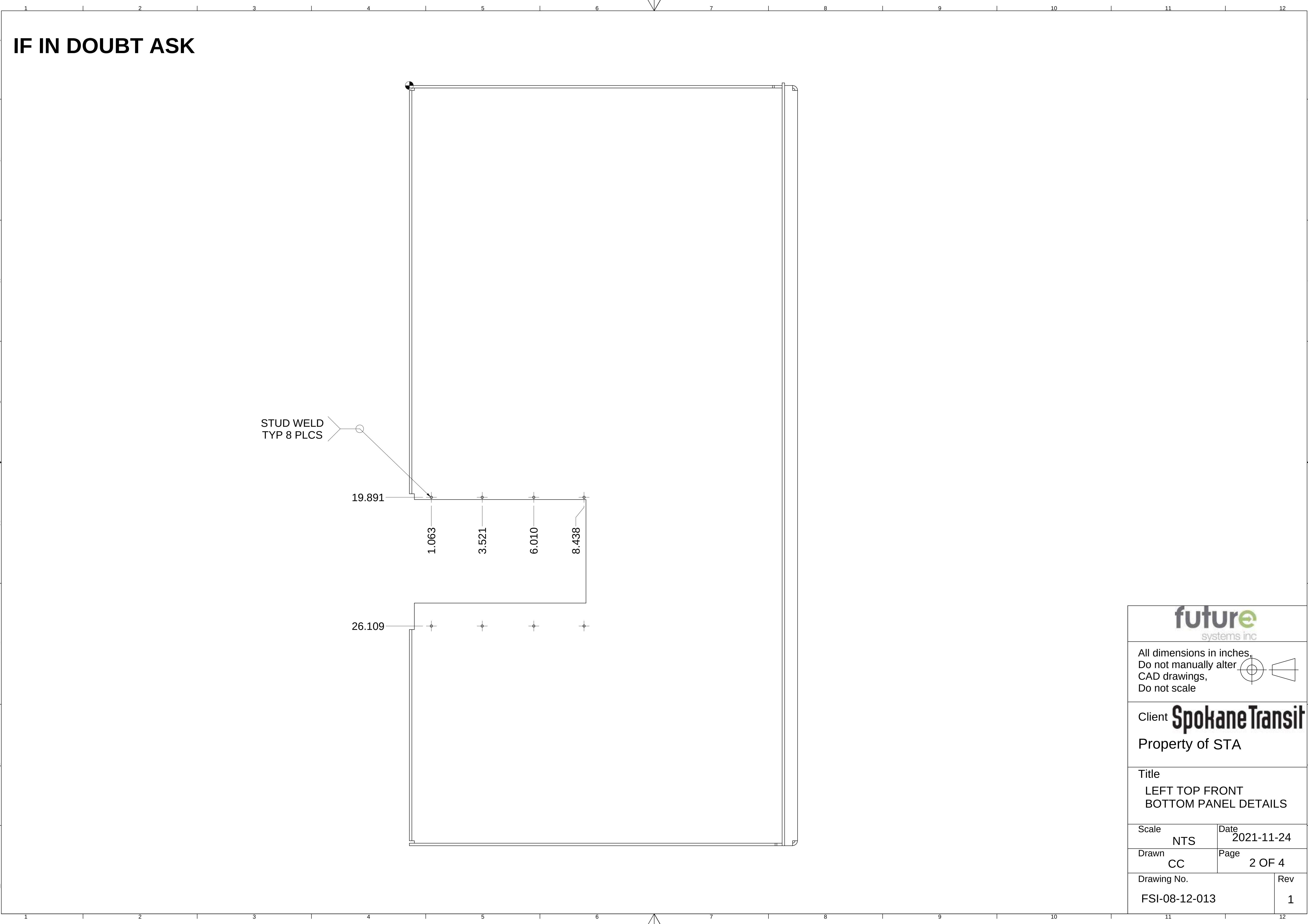
Approx. Weight: 15kgs (33lbs)

Panels Required Per Marker: 1

Tolerances unless stated otherwise to be at $\pm 1/32$ "

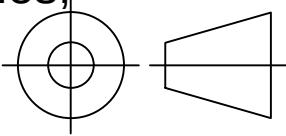
PARTS LIST			
ITEM	QTY	DRAWING NUMBER	DESCRIPTION
1	1	LEFT HPT MARKER UPPER FRONT PANEL	SEE SHEET 3
2	2	Corrosion-Resistant Tight-Seal Brush with Stainless Steel Bristles	63595T411_MCMaster-CARR OR EQUIVALENT
3	8	WELD STUD - 0.11 UNC - 0.375 -No 4 SCREW	
4	8	316 Stainless Steel Washer	90107A005_MCMaster-CARR OR EQUIVALENT
5	8	Super-Corrosion-Resistant 316 Stainless Steel Hex Nut	90257A005_MCMaster-CARR OR EQUIVALENT

1	CC	2021-12-08	MOVED SLOTTED HOLES
0	CC	11/29/2021	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
future systems inc			
All dimensions in inches. Do not manually alter CAD drawings, Do not scale			
Client Spokane Transit			
Property of STA			
Title LEFT TOP FRONT BOTTOM PANEL DETAILS			
Scale NTS		Date 2021-11-24	
Drawn CC		Page 1 OF 4	
Drawing No. FSI-08-12-013			Rev 1





All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale



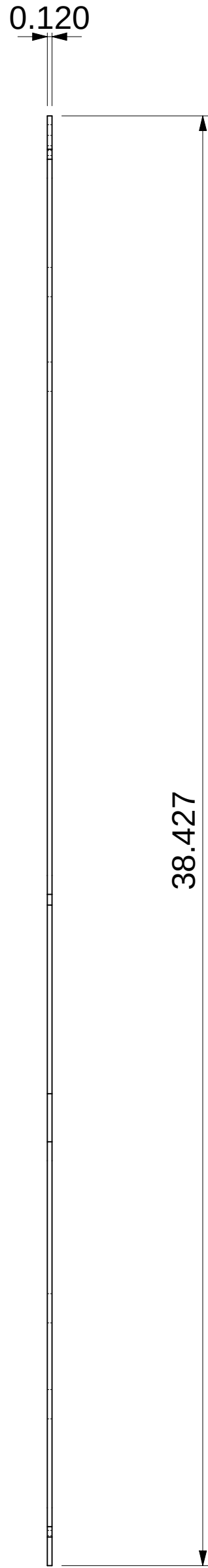
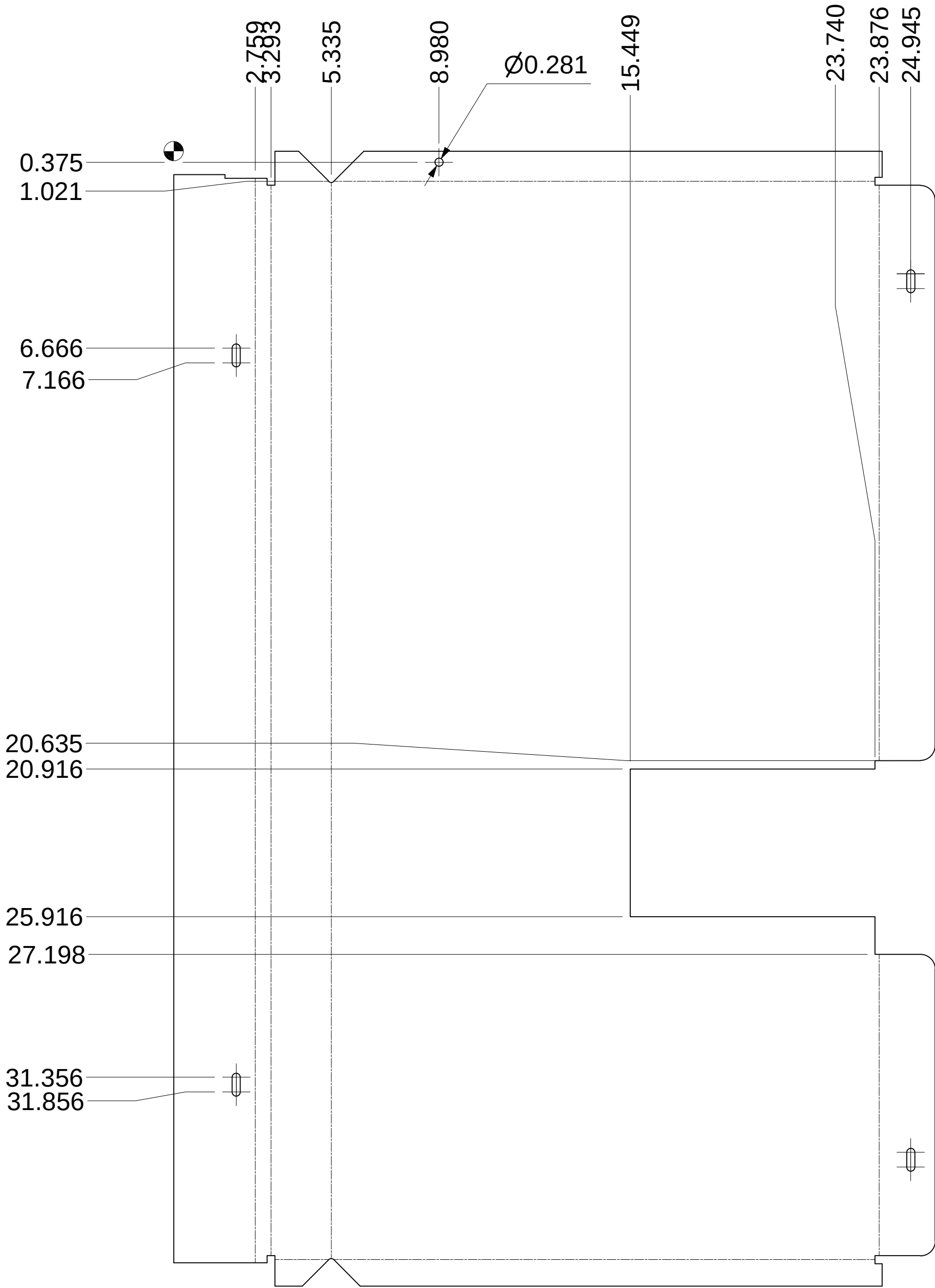
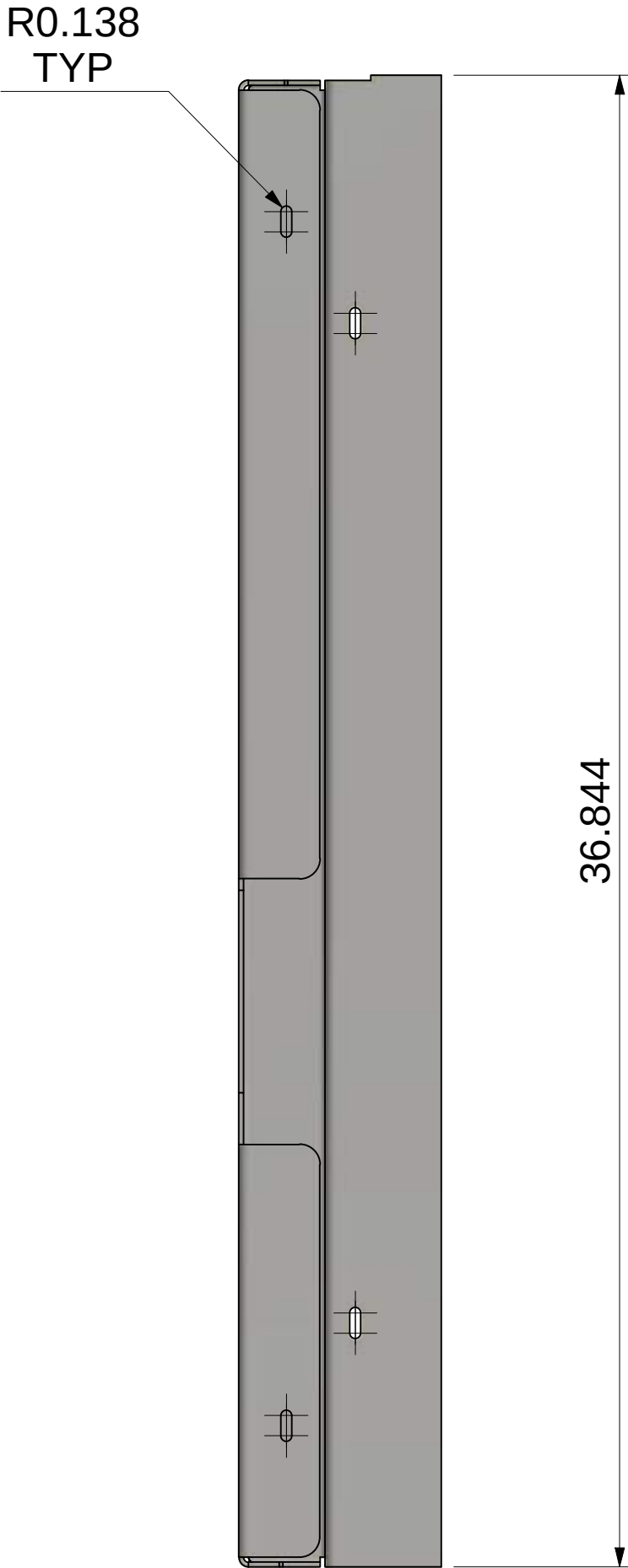
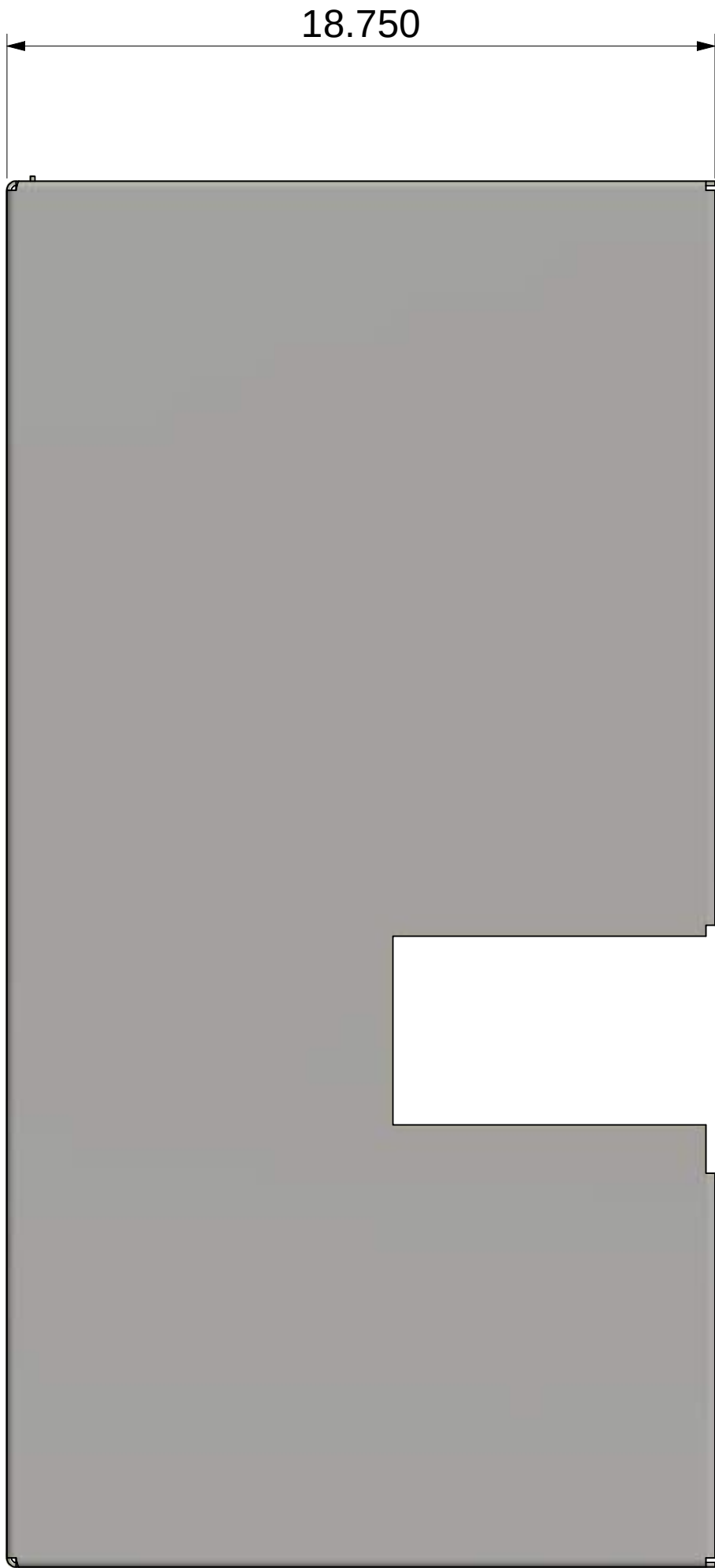
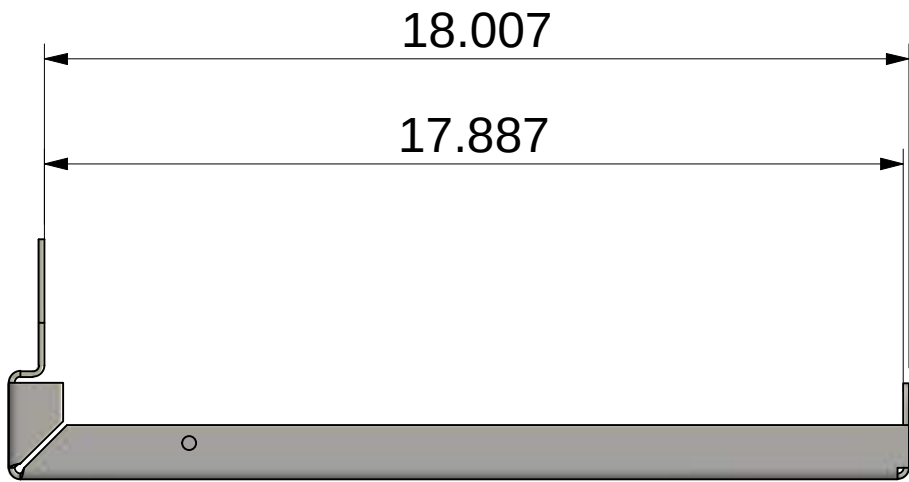
Client **Spokane Transit**
Property of STA

Title
LEFT TOP FRONT
BOTTOM PANEL DETAILS

Scale NTS	Date 2021-11-24
Drawn CC	Page 2 OF 4
Drawing No. FSI-08-12-013	Rev 1

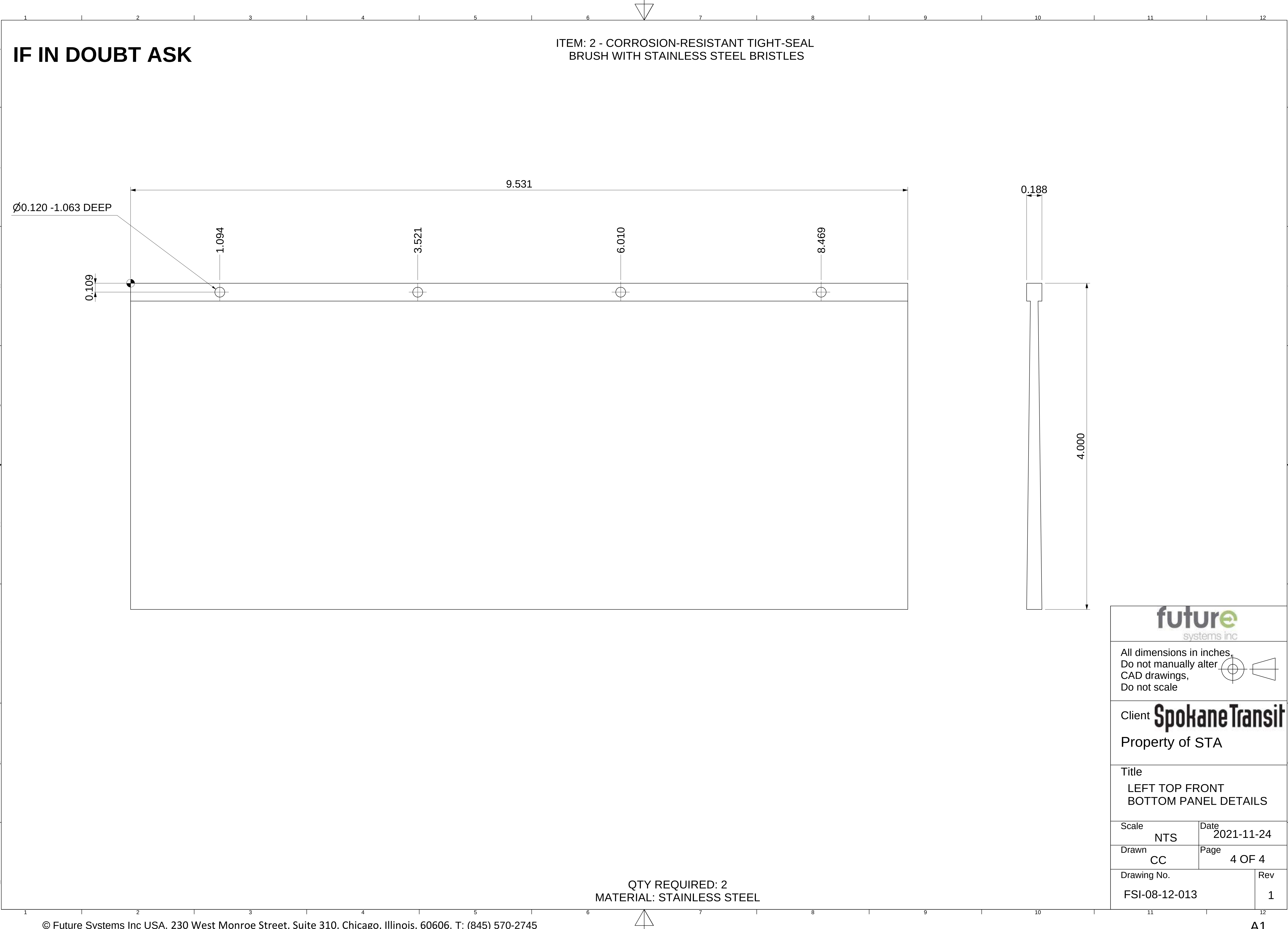
IF IN DOUBT ASK

ITEM: 1 - LEFT HPT MARKER UPPER FRONT PANEL



QTY REQUIRED: 1
MATERIAL: STAINLESS STEEL

All dimensions in inches, Do not manually alter CAD drawings, Do not scale			
Client Spokane Transit Property of STA			
Title LEFT TOP FRONT BOTTOM PANEL DETAILS			
Scale NTS	Date 2021-11-24		
Drawn CC	Page 3 OF 4		
Drawing No. FSI-08-12-013	Rev 1		



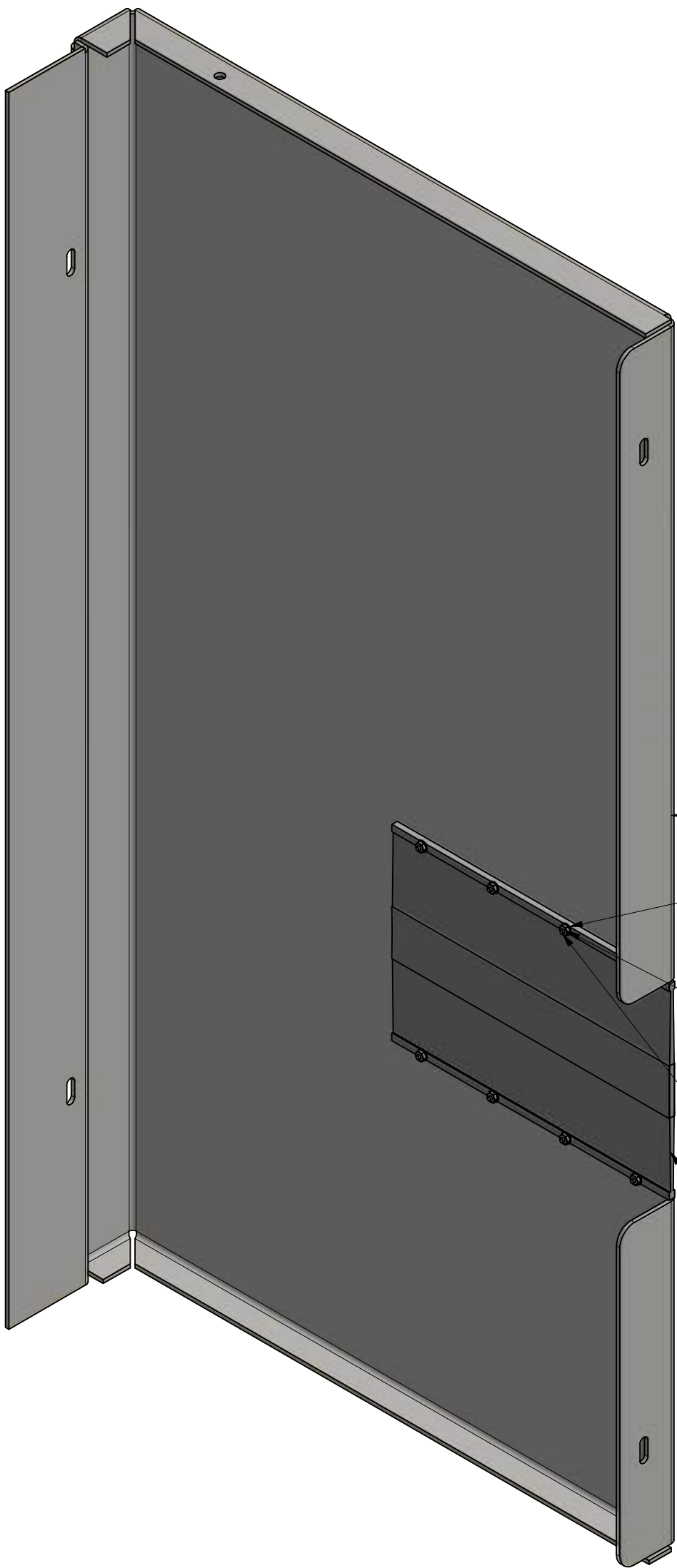
IF IN DOUBT ASK

2.000

18.007

18.750

4.993



Notes: Remove all sharp edges and burrs unless otherwise stated.

Material: Stainless Steel

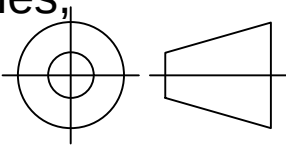
Finish: Assemblies to be vinyl wrapped to client specfications. All cladding vinyl wrap to be done by others.

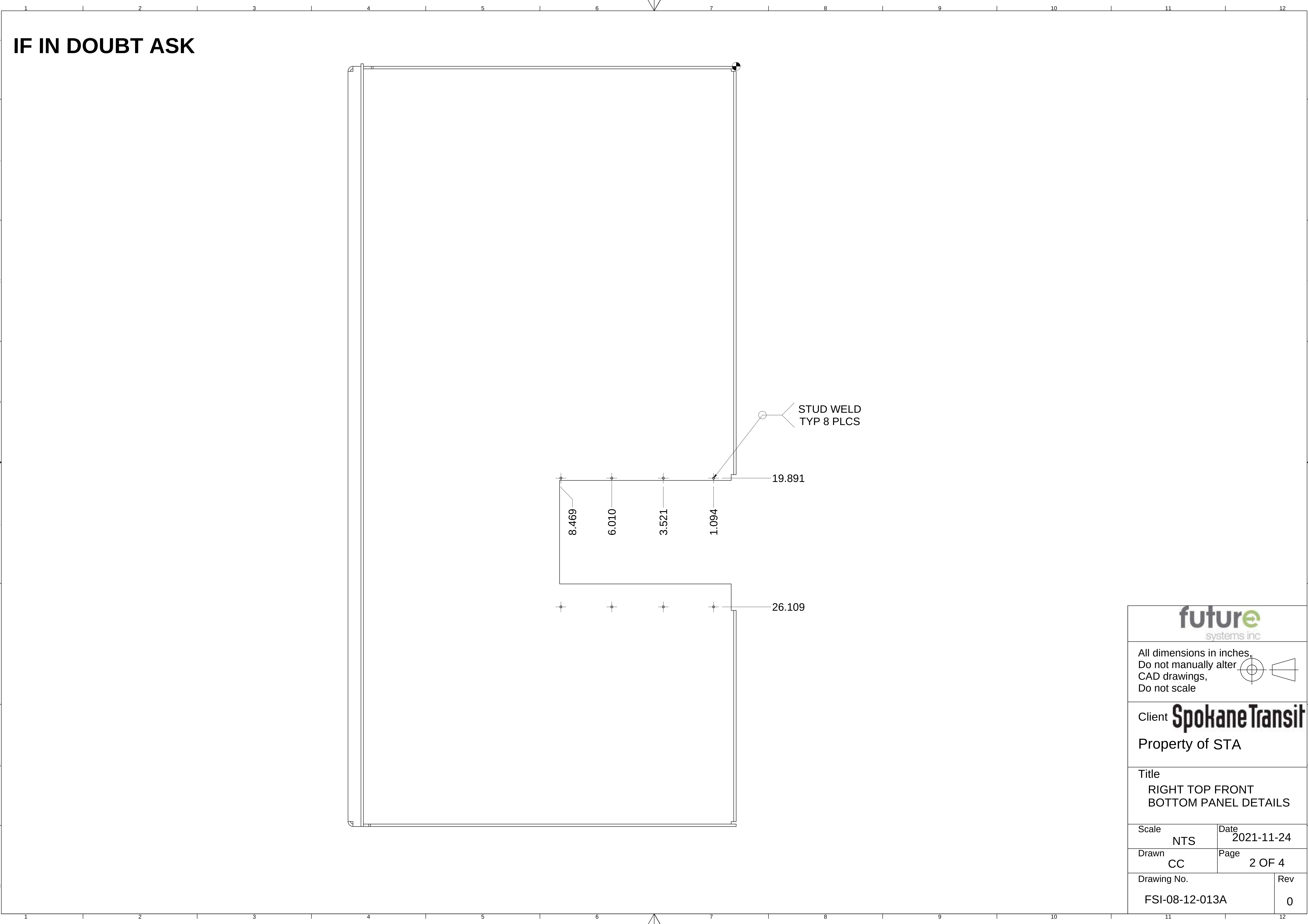
Approx. Weight: 15kgs (33lbs)

Panels Required Per Marker: 1

Tolerances unless stated otherwise to be at $\pm 1/32$ "

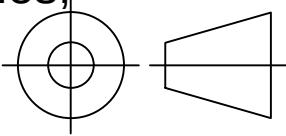
PARTS LIST			
ITEM	QTY	DRAWING NUMBER	DESCRIPTION
1	1	FSI8-04-452 - HPT MARKER UPPER FRONT PANEL - 04	Front Panel - Bottom - Part A
2	2	Corrosion-Resistant Tight-Seal Brush with Stainless Steel Bristles	63595T411_MCMaster-CARR OR EQUIVALENT
3	8	WELD STUD - 0.11 UNC - 0.375 -No 4 SCREW	
4	8	316 Stainless Steel Washer	90107A005_MCMaster-CARR OR EQUIVALENT
5	8	Super-Corrosion-Resistant 316 Stainless Steel Hex Nut	90257A005_MCMaster-CARR OR EQUIVALENT

0	CC	11/29/2021	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
			
All dimensions in inches. Do not manually alter CAD drawings, Do not scale 			
Client Spokane Transit Property of STA			
Title RIGHT TOP FRONT BOTTOM PANEL DETAILS			
Scale NTS		Date 2021-11-24	
Drawn CC		Page 1 OF 4	
Drawing No. FSI-08-12-013A			Rev 0





All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale



Client **Spokane Transit**
Property of STA

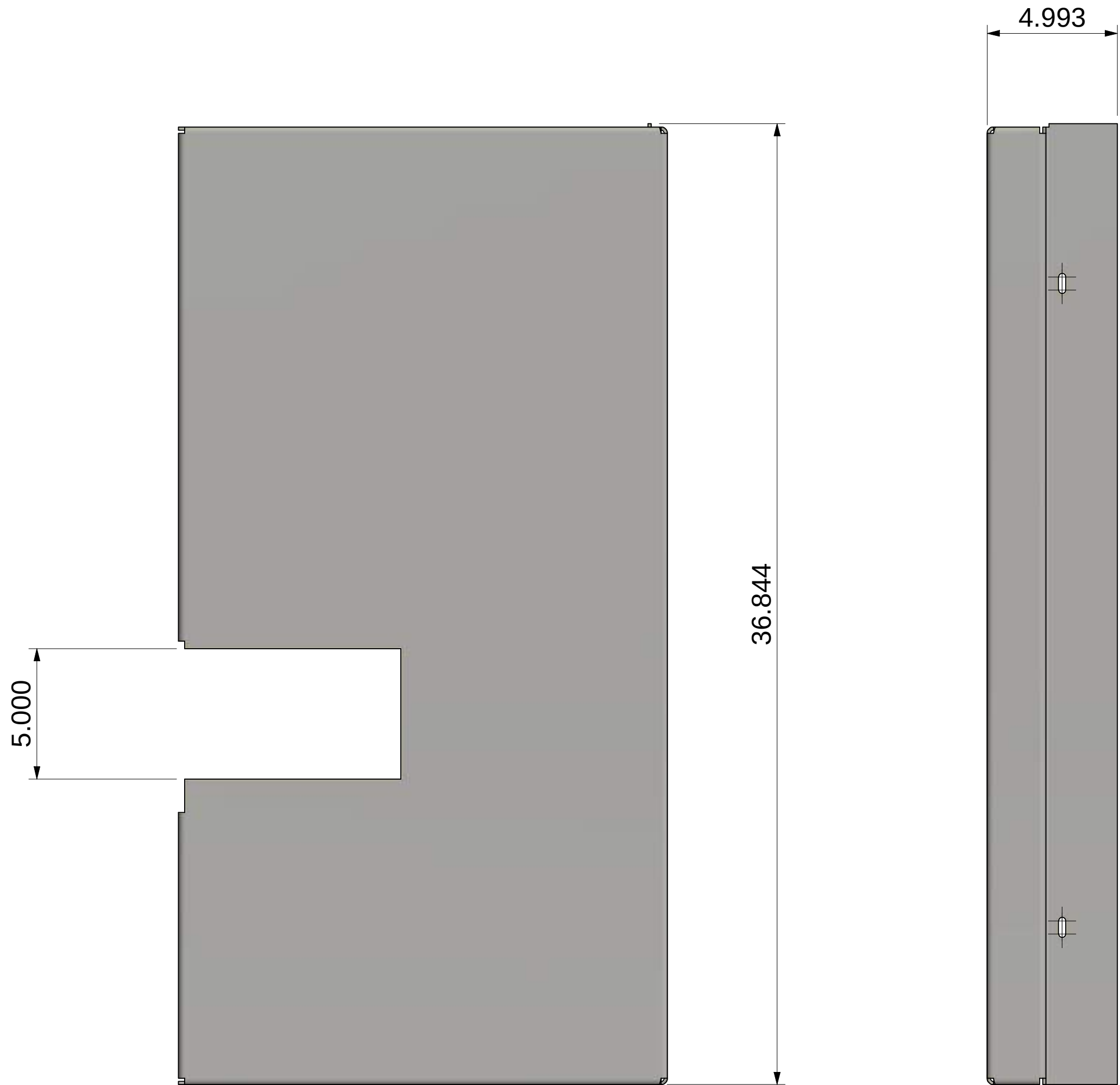
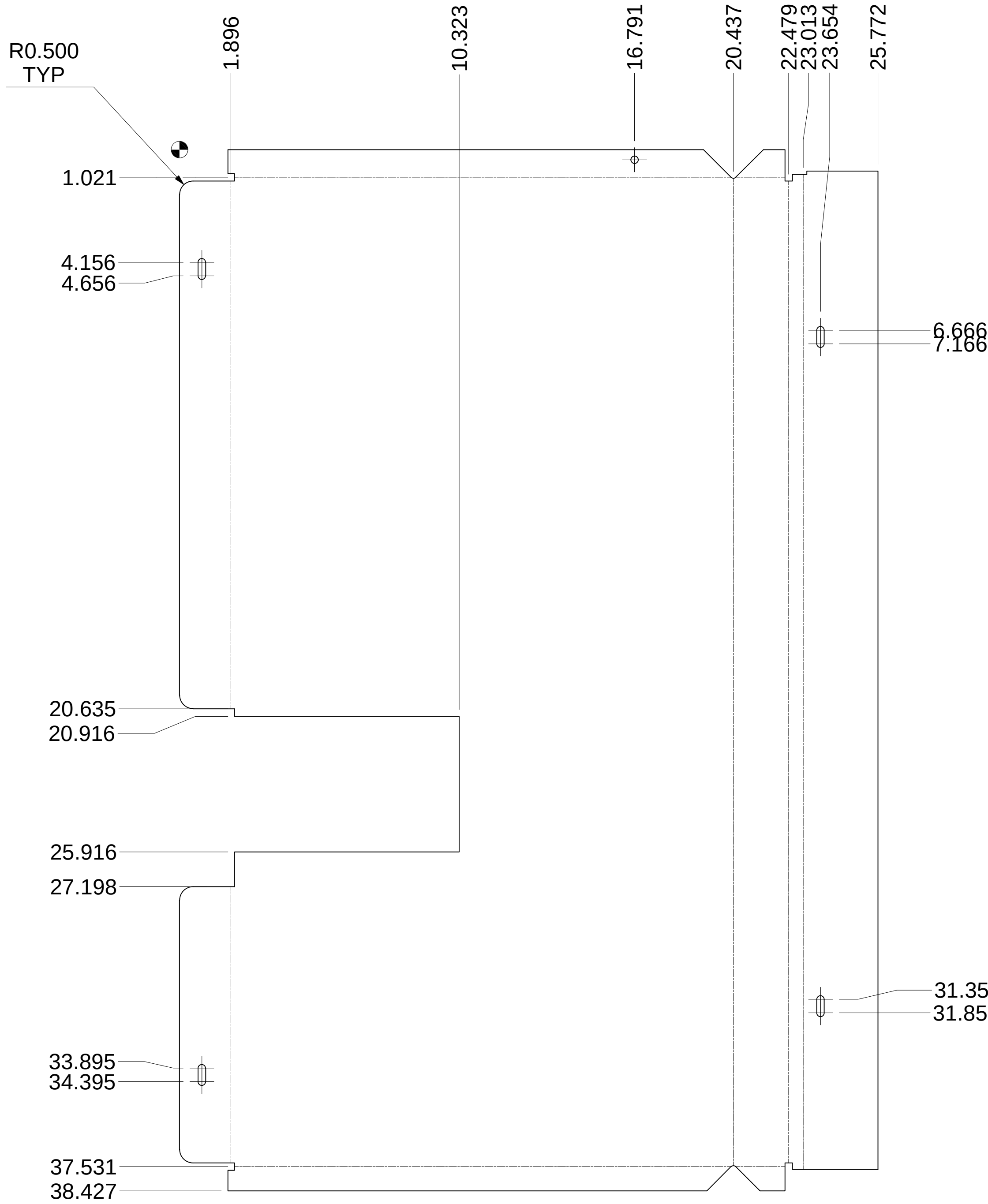
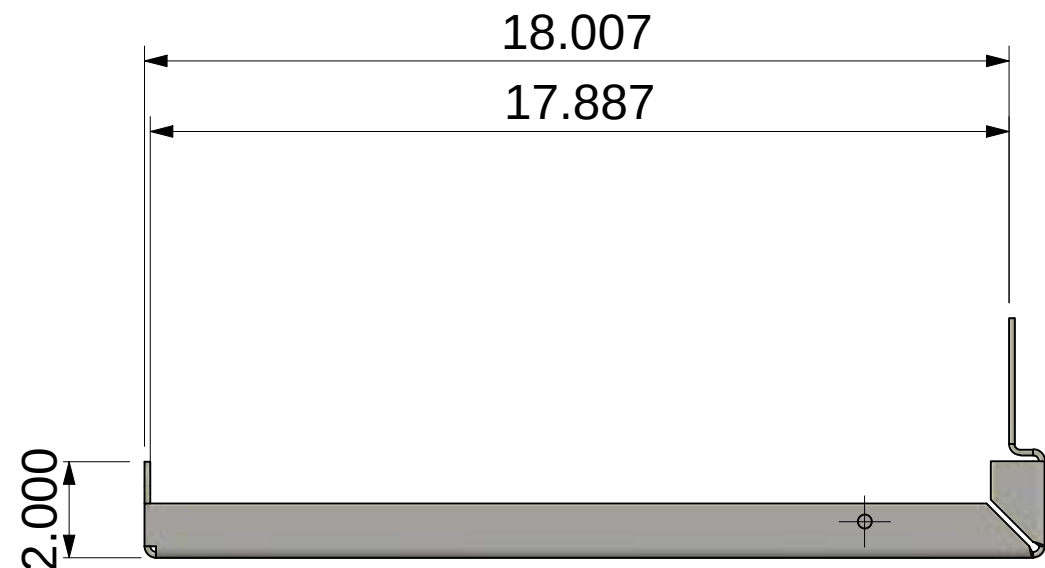
Title
RIGHT TOP FRONT
BOTTOM PANEL DETAILS

Scale NTS	Date 2021-11-24
Drawn CC	Page 2 OF 4

Drawing No. FSI-08-12-013A	Rev 0

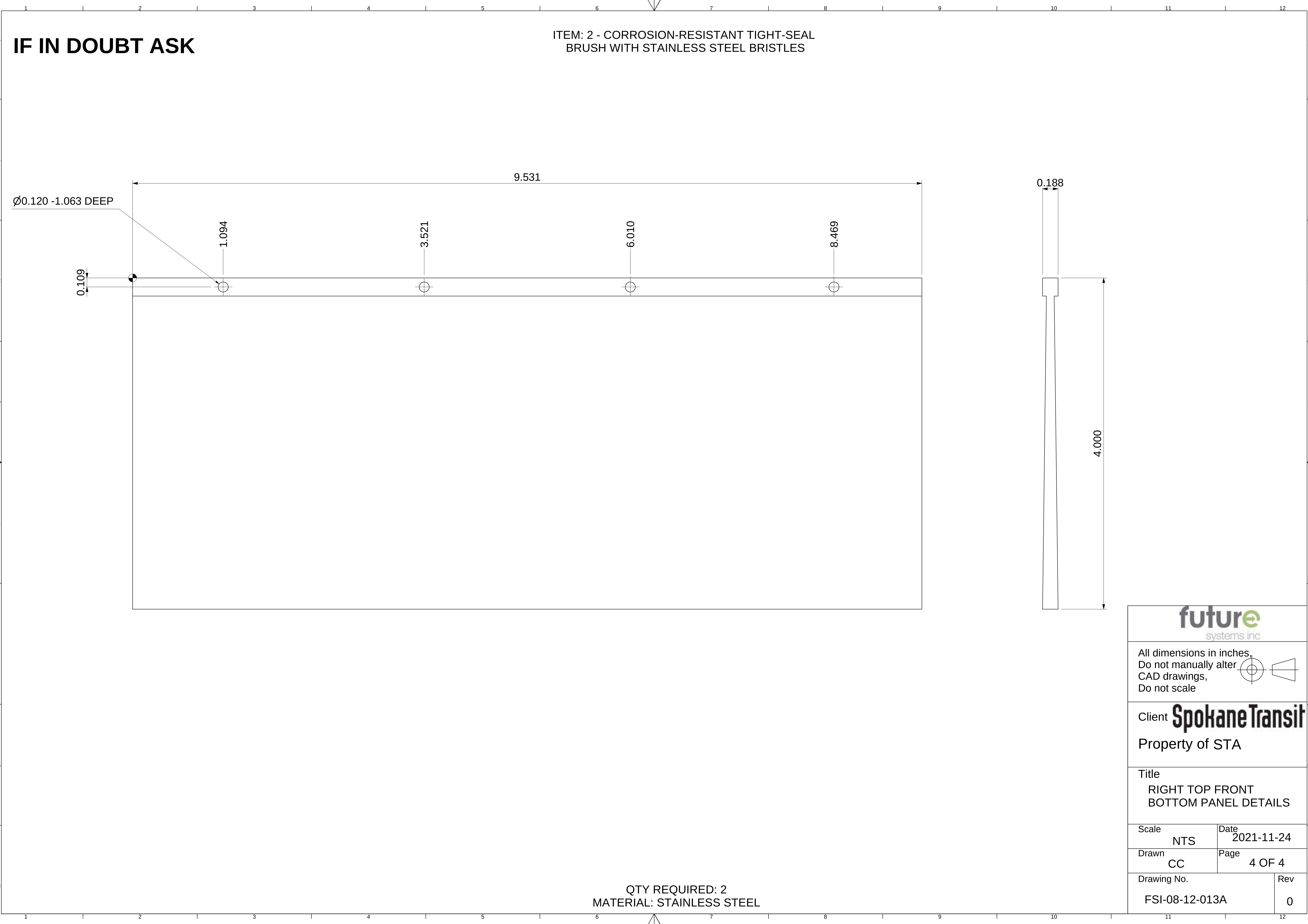
IF IN DOUBT ASK

ITEM: 1 - RIGHT HPT MARKER UPPER FRONT PANEL



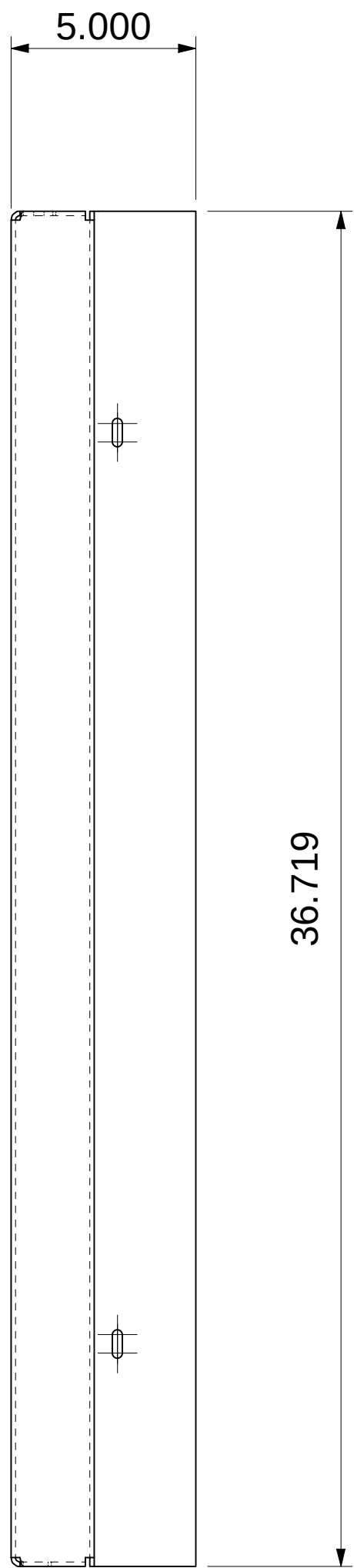
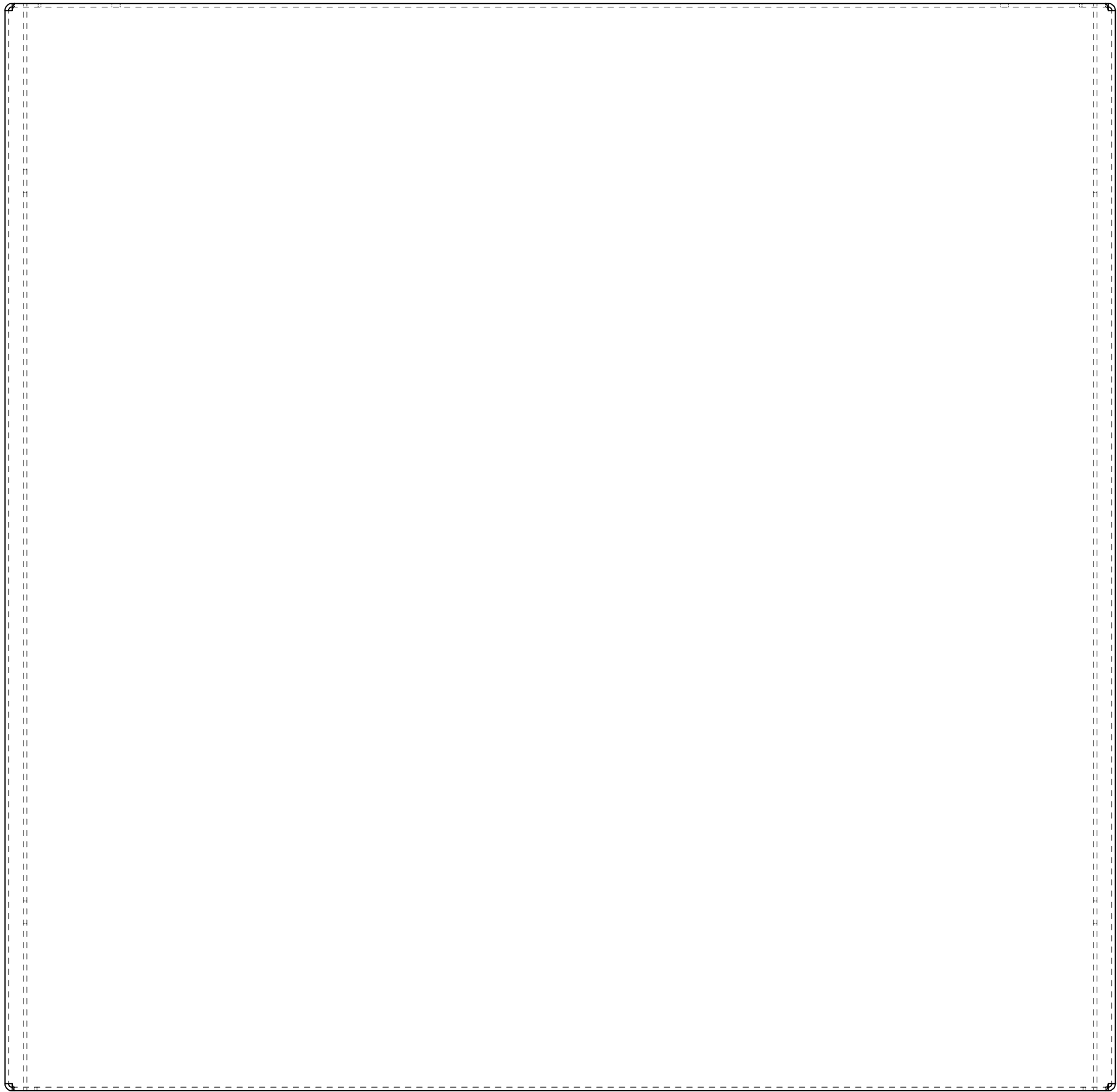
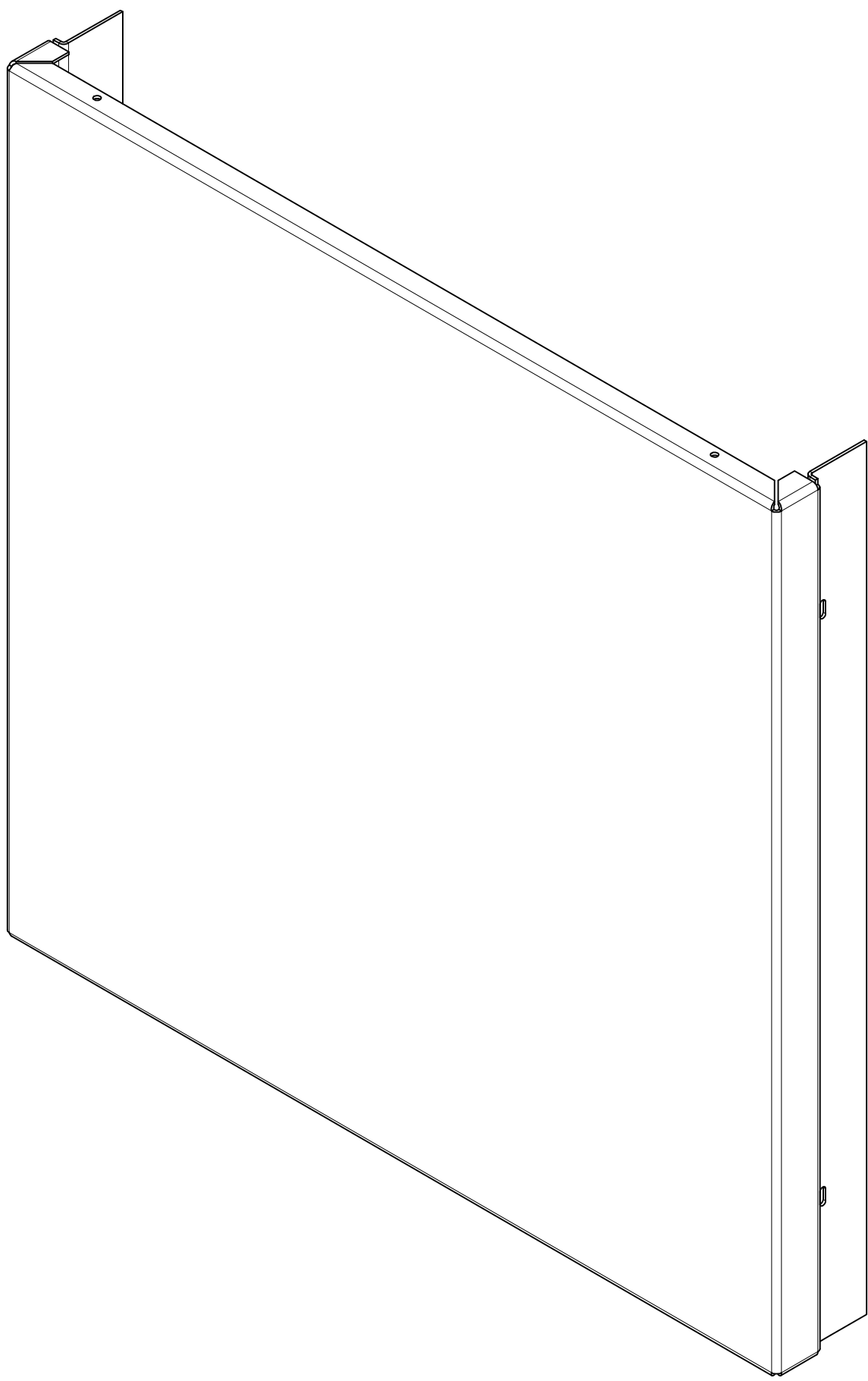
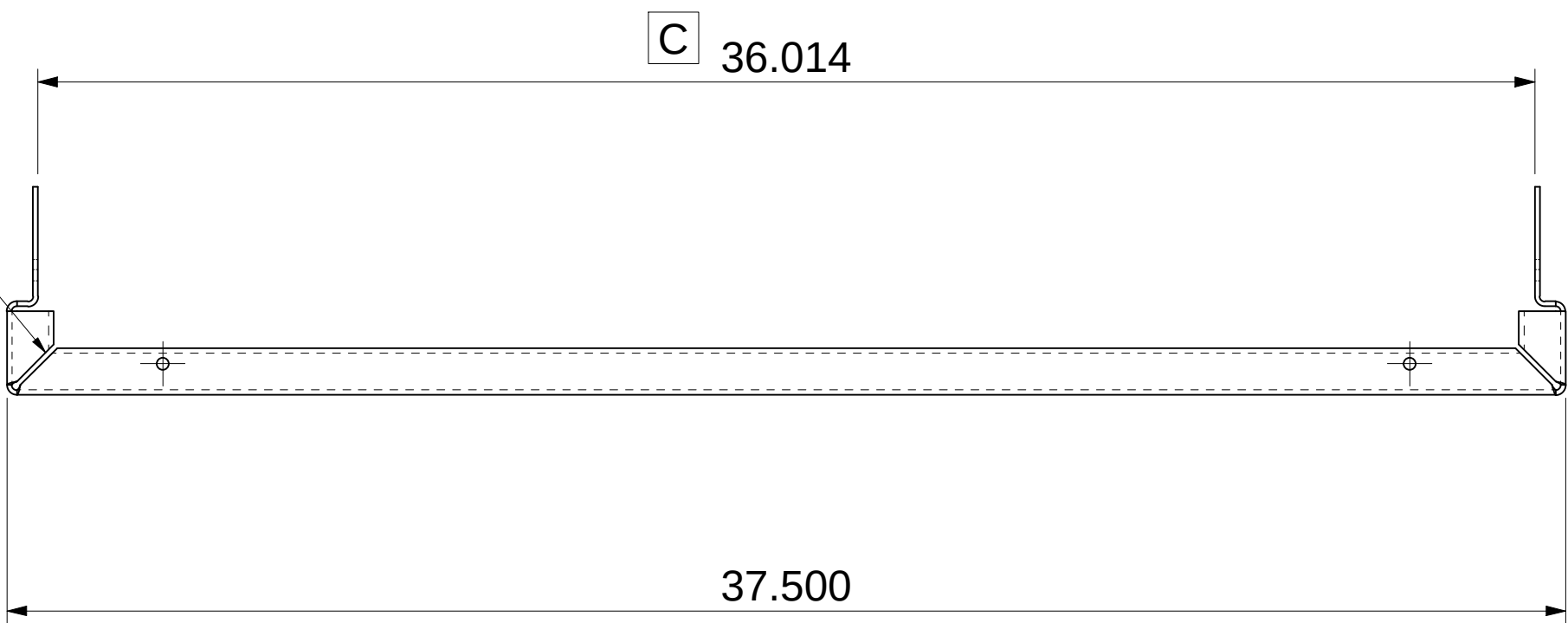
QTY REQUIRED: 1
MATERIAL: STAINLESS STEEL

future systems inc	
All dimensions in inches. Do not manually alter CAD drawings, Do not scale	
Client Spokane Transit Property of STA	
Title RIGHT TOP FRONT BOTTOM PANEL DETAILS	
Scale NTS	Date 2021-11-24
Drawn CC	Page 3 OF 4
Drawing No. FSI-08-12-013A	Rev 0



IF IN DOUBT ASK

WELD ALL
JOINTS AND
GRIND FLUSH
TYP



Notes: Remove all sharp edges and burrs unless otherwise stated.

Grind all welds flush

Material: Stainless Steel

Finish: Part to vinyl wrapped to client specfications. All cladding vinyl wrap to be done by others.

Approx. Weight: 28kgs (62lbs)

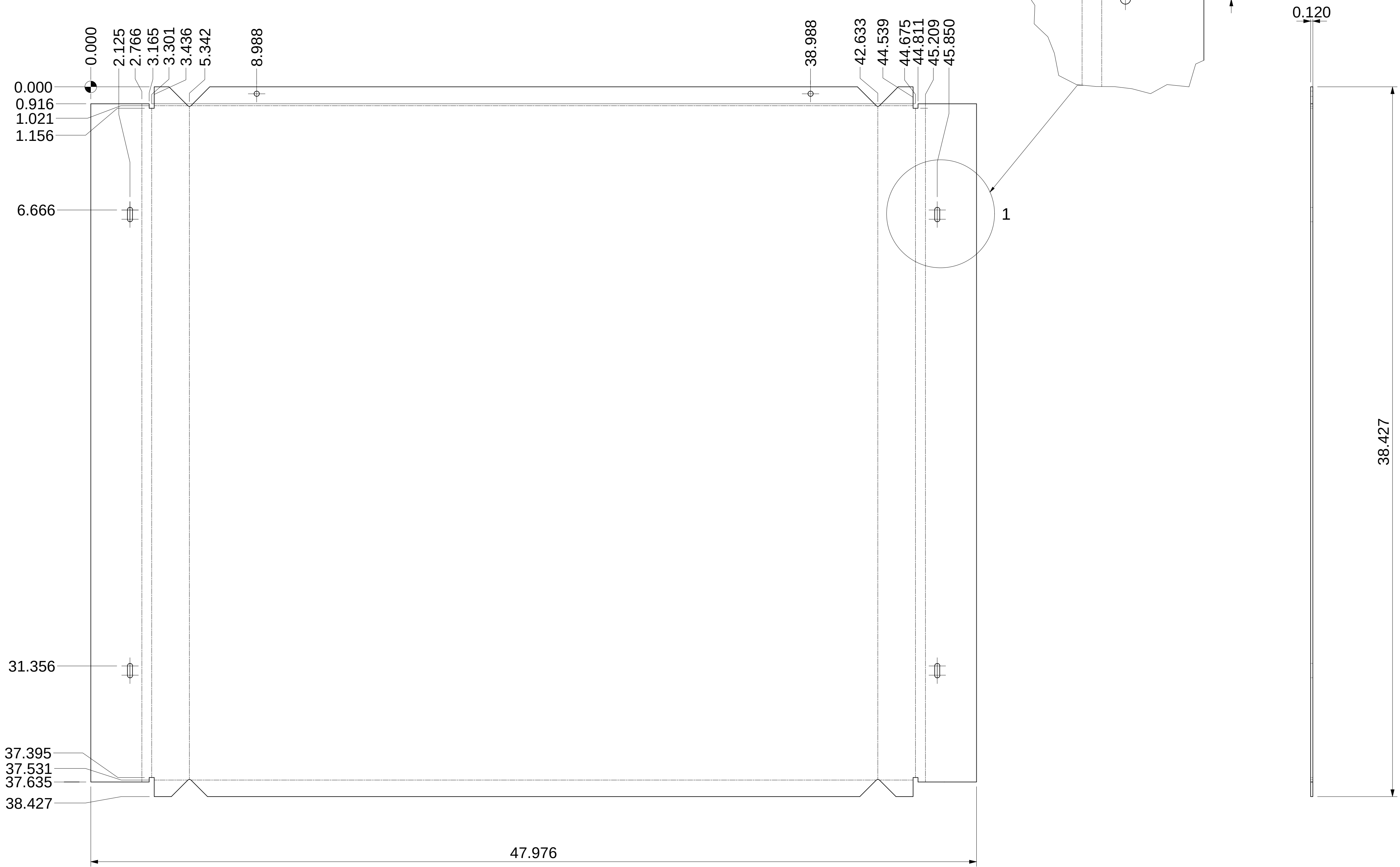
Assemblies Required Per Marker: 1

Tolerances unless stated otherwise to be at $\pm 1/32$ "

0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
All dimensions in inches. Do not manually alter CAD drawings, Do not scale			
Client Spokane Transit Property of STA			
Title TOP BACK BOTTOM PANEL DETAILS			
Scale NTS		Date 2021-01-26	
Drawn CC		Page 1 OF 2	
Drawing No. FSI-08-12-014			Rev 0

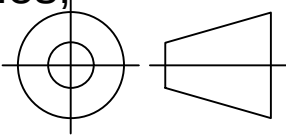
IF IN DOUBT ASK

DETAIL 1
TYPICAL SLOT DETAIL





All dimensions in inches.
Do not manually alter
CAD drawings,
Do not scale

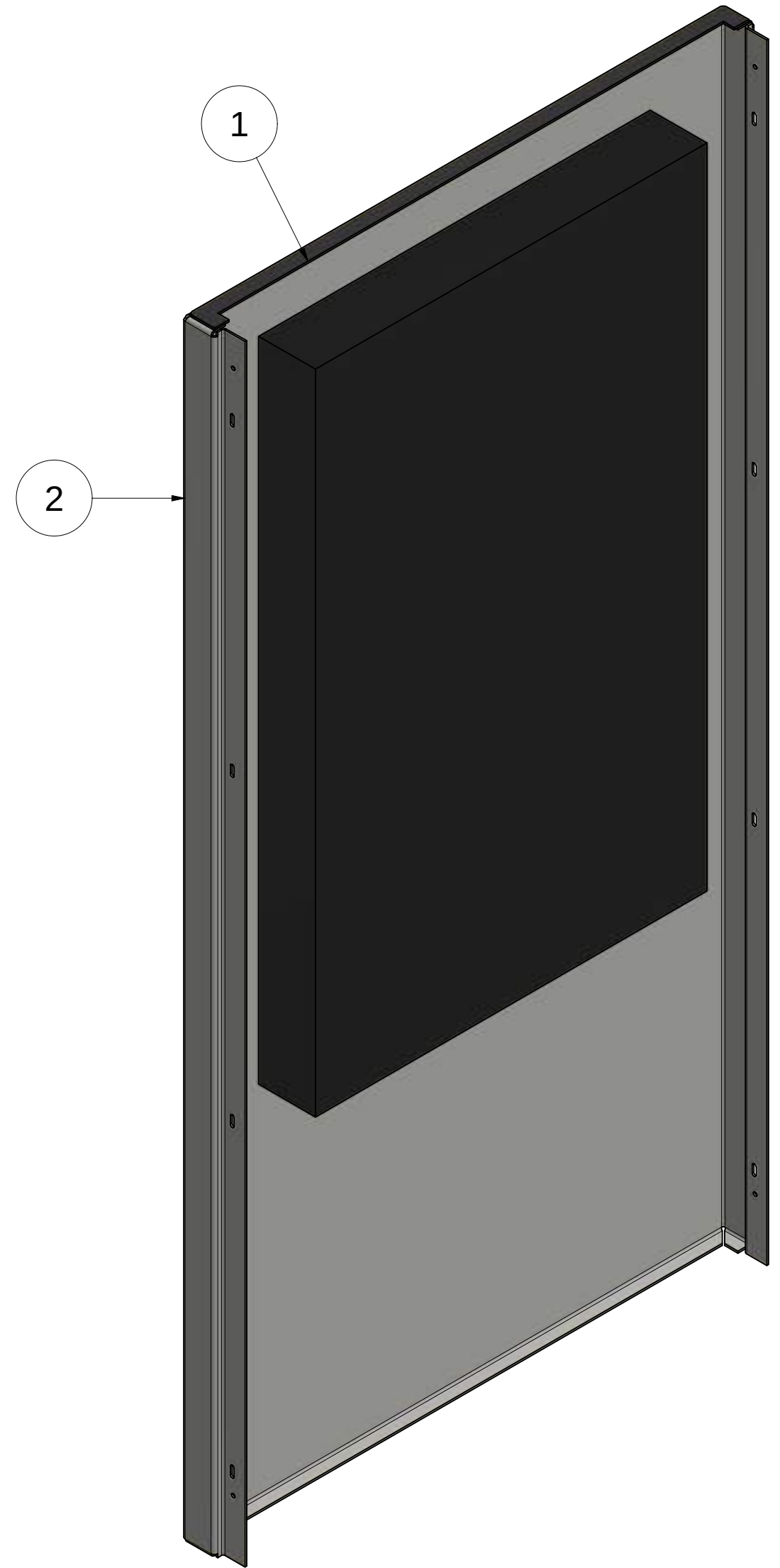
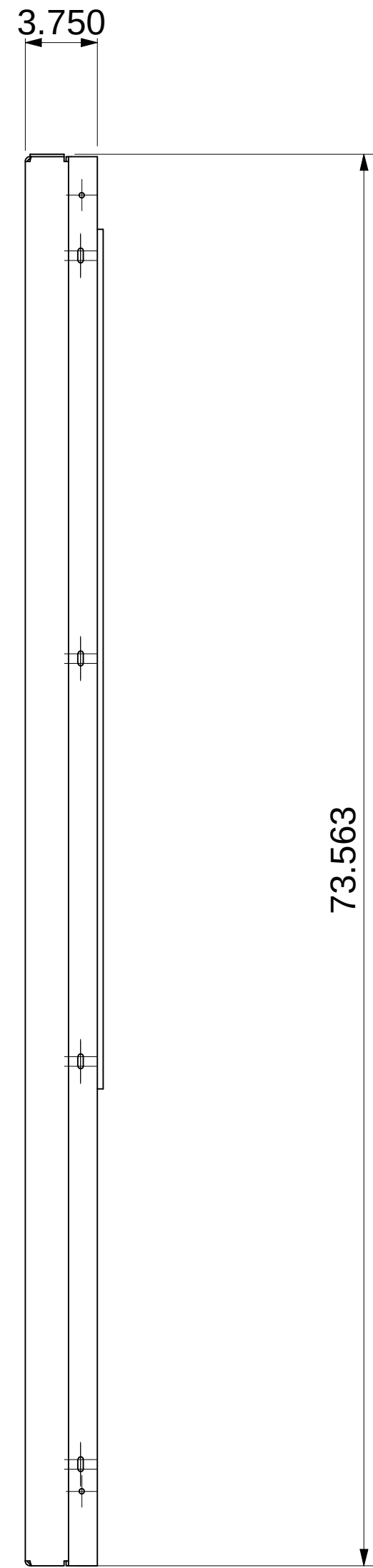
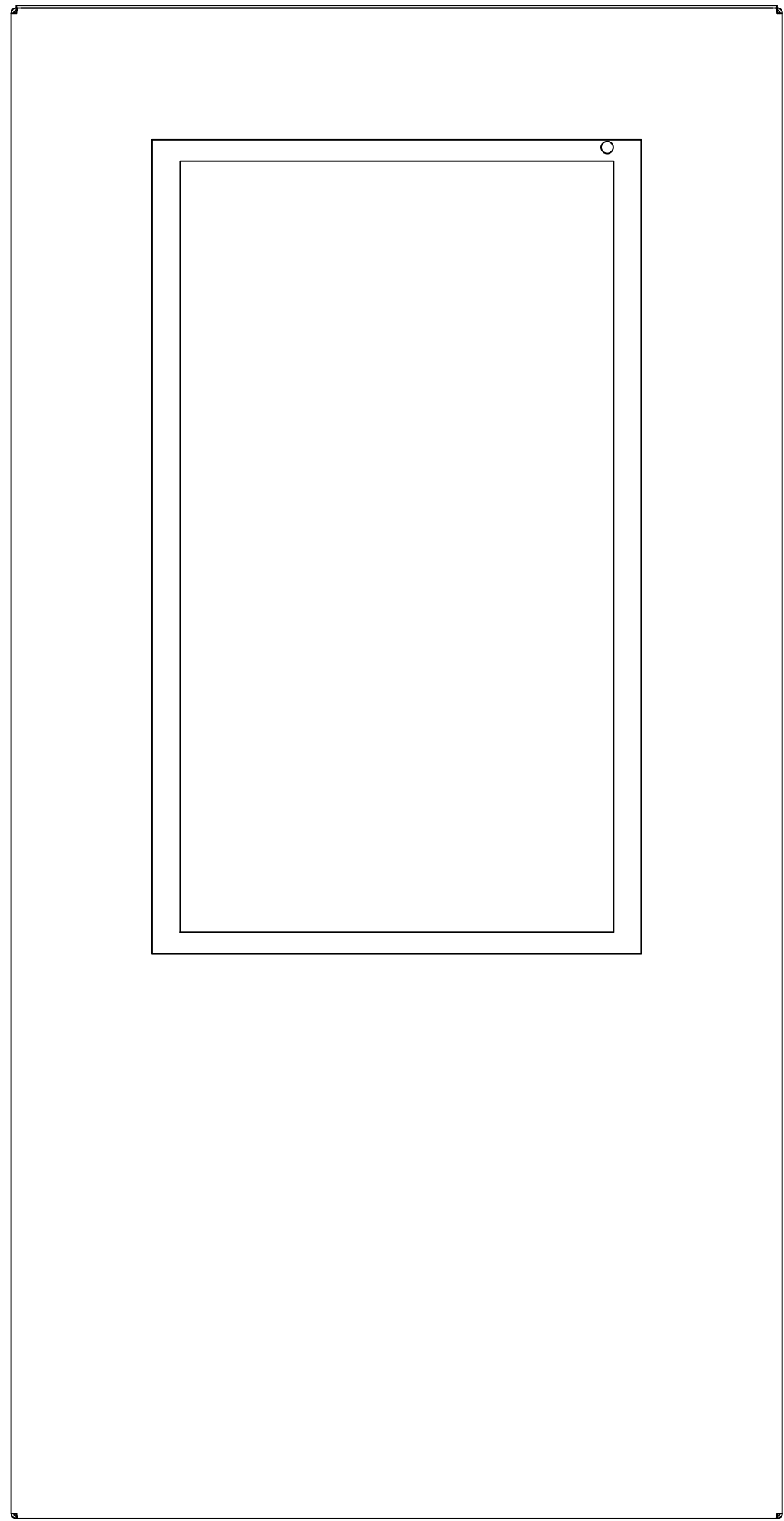
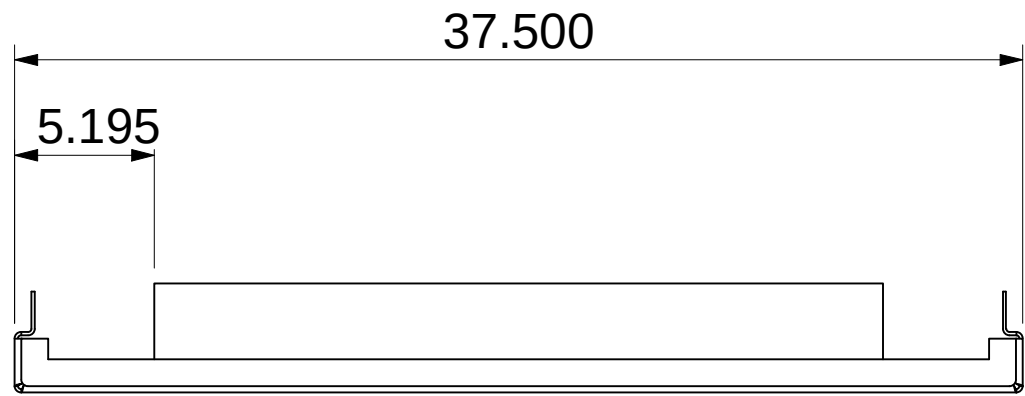
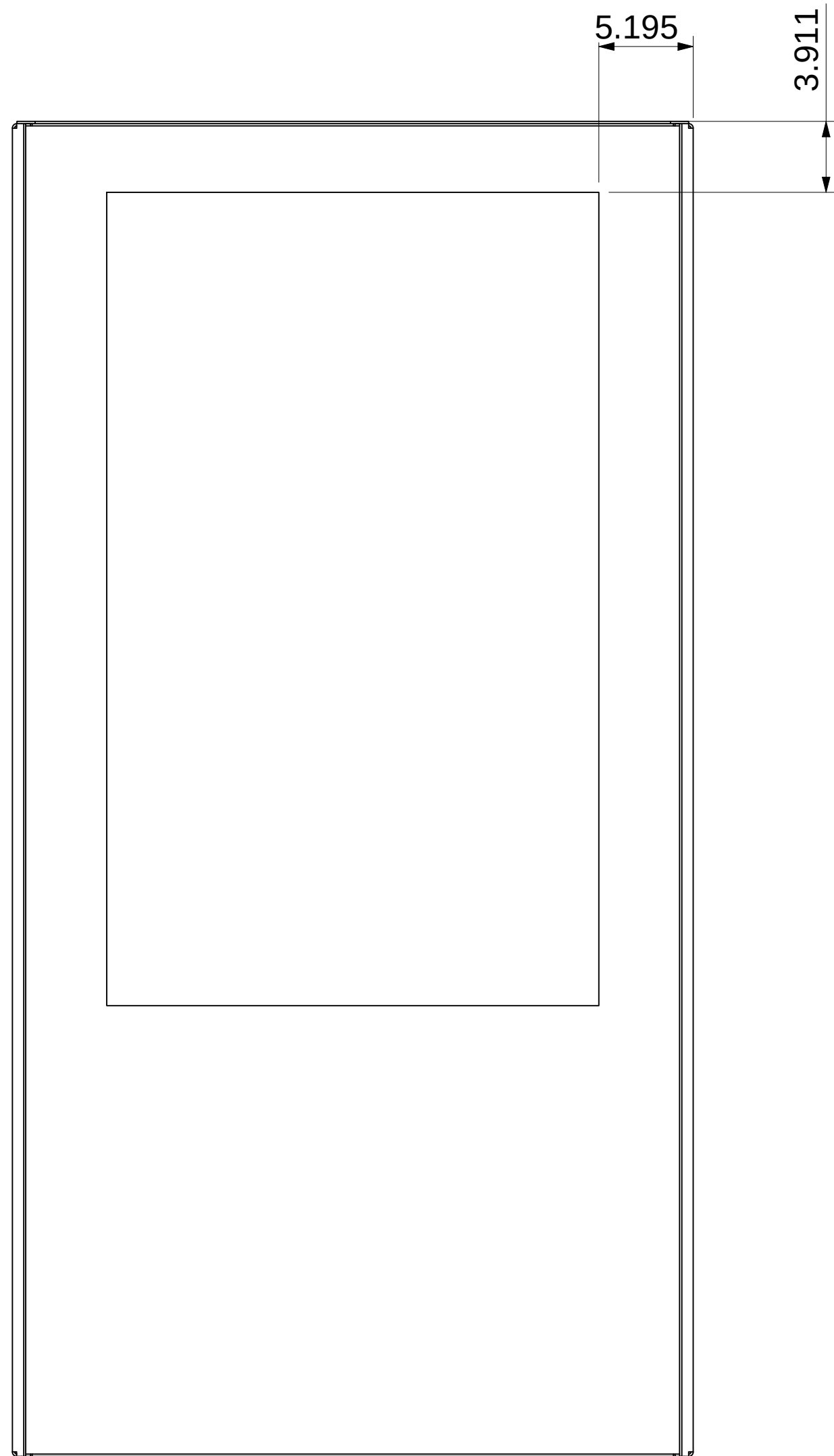


Client **Spokane Transit**
Property of STA

Title
**TOP BACK BOTTOM
PANEL DETAILS**

Scale NTS	Date 2021-01-26
Drawn CC	Page 2 OF 2
Drawing No. FSI-08-12-014	Rev 0

IF IN DOUBT ASK



Notes: Remove all sharp edges and burrs unless otherwise stated.

Assembly to be pre-assembled without any electrical and components being provided by others.

Material: Stainless Steel

Finish: Front cladding to be vinyl wrapped to client specifications. All cladding vinyl wrap to be done by others.

Assemblies Required Per Marker: 1

Tolerances unless stated otherwise to be at $\pm 1/32$ "

*OVERALL DIMENSIONS OF DISPLAY HAS BEEN VERIFIED USING DRAWING PROVIDED BY IBI/DAKTRONICS. DISPLAY AREA TO BE CONFIRMED BY IBI

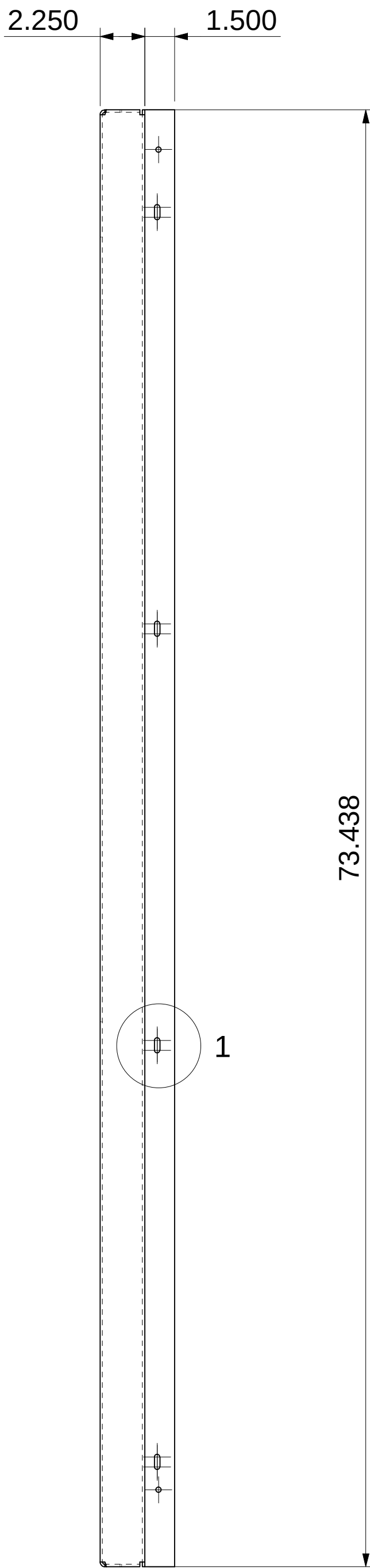
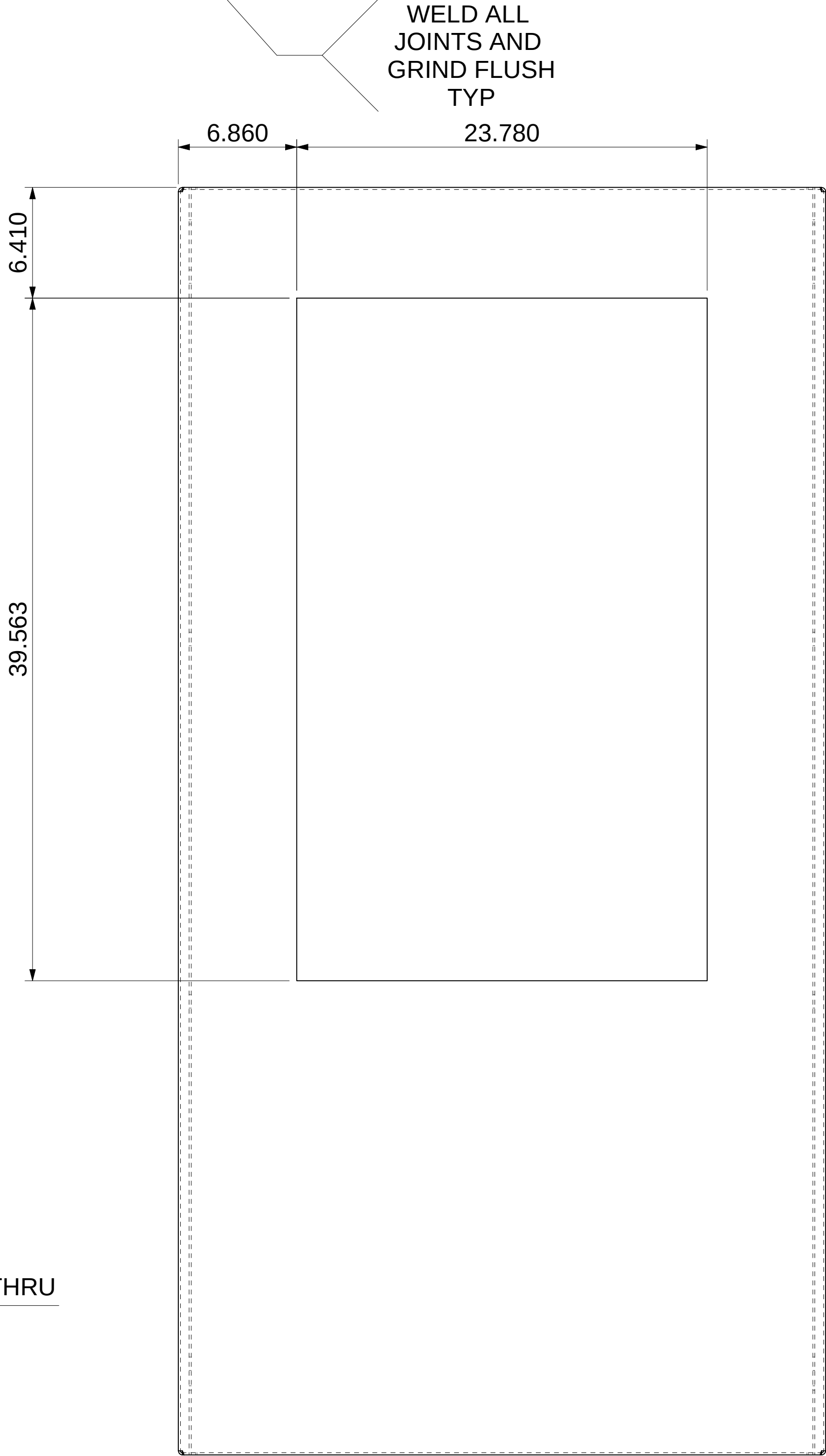
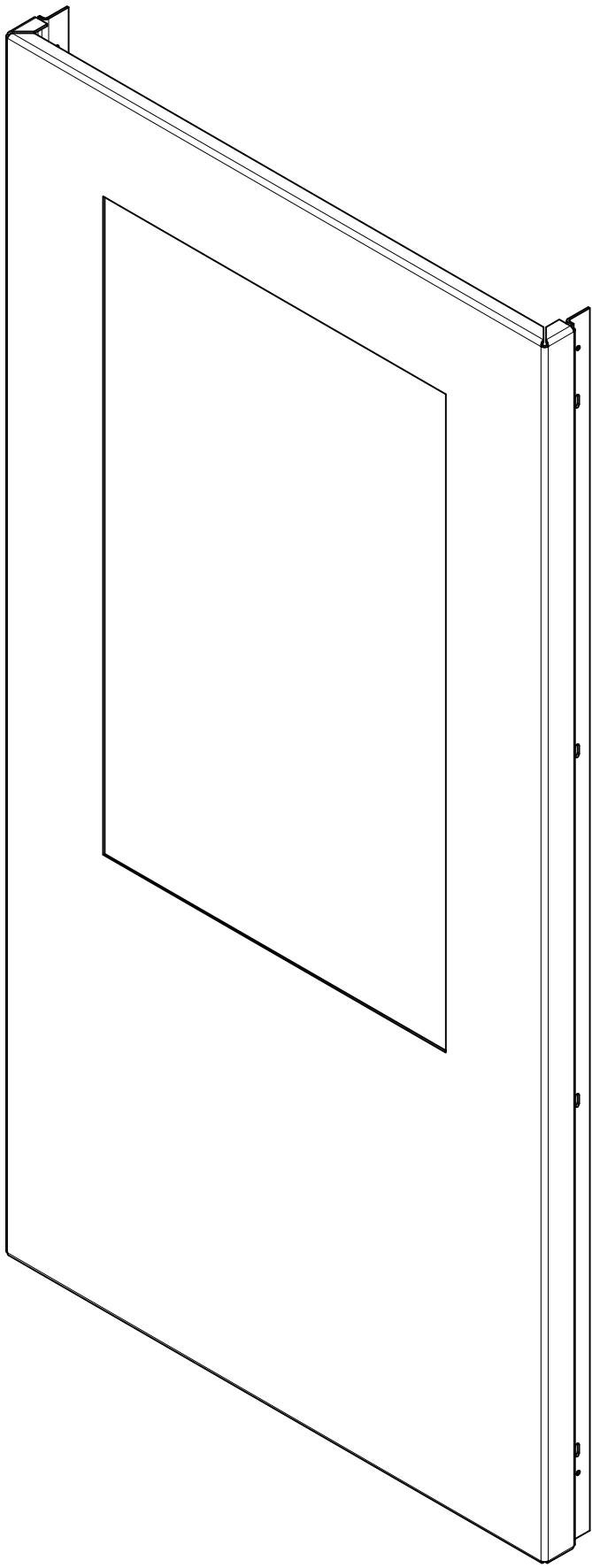
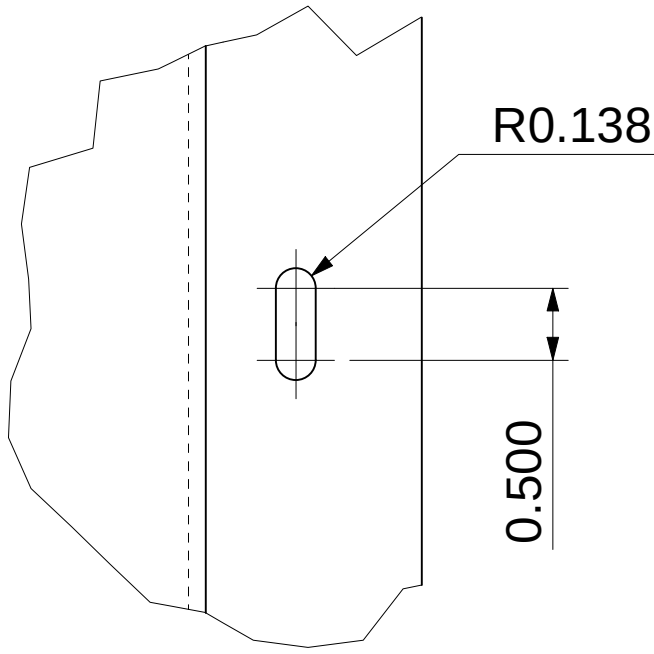
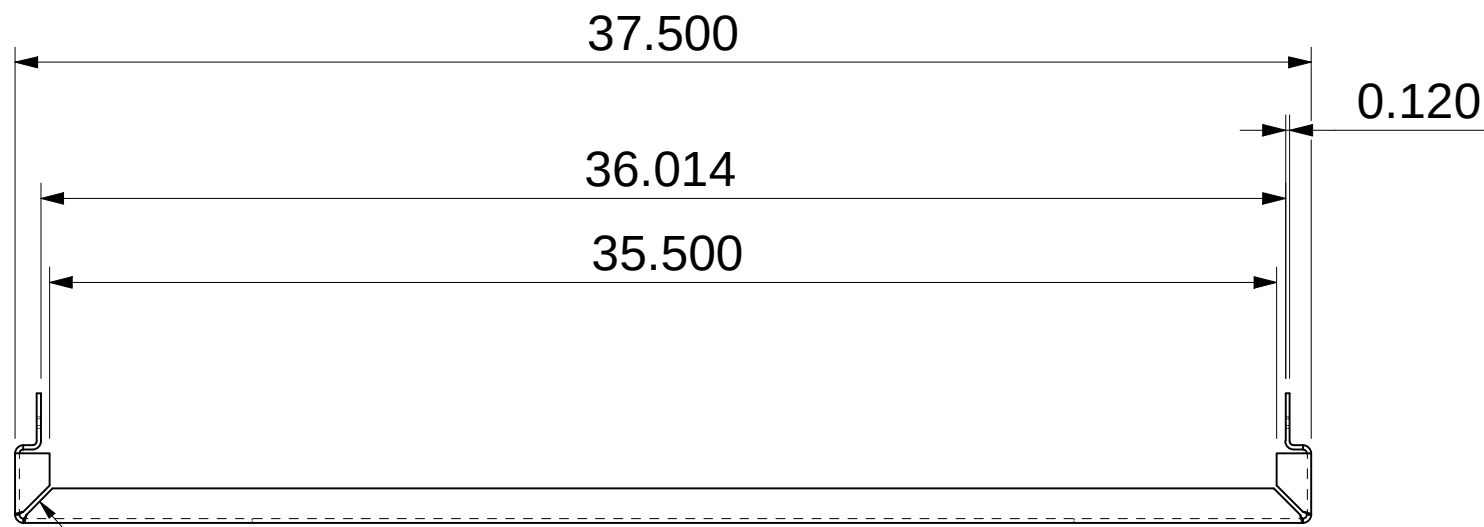
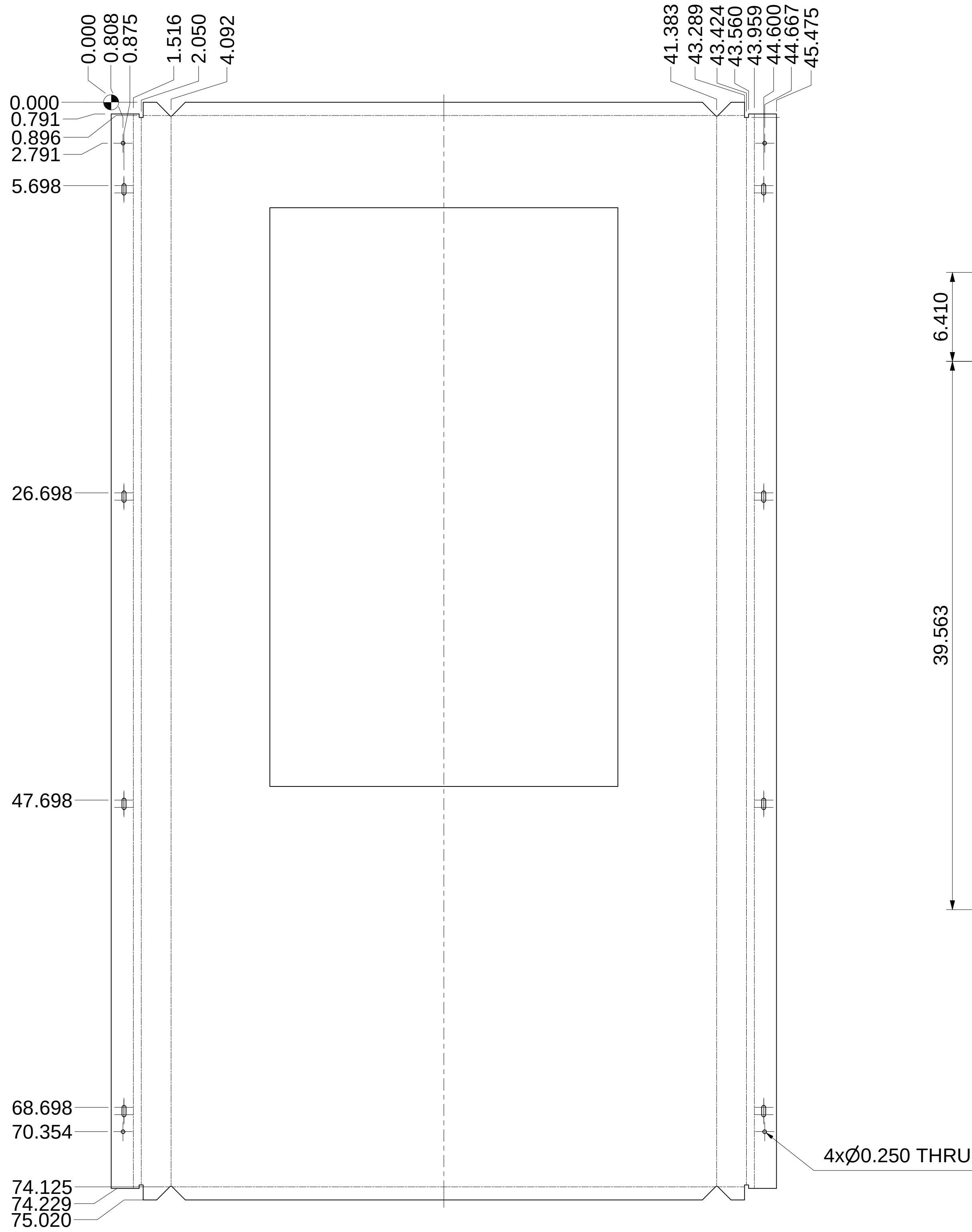
PARTS LIST			
ITEM	QTY	DRAWING NUMBER	DESCRIPTION
1	1	HPT MARKER SEAL	NEOPRENE RUBBER SEAL
2	1	HPT MARKER FRONT SCREEN PANEL	REF SHEET 2 OF 2
3	1	NEW MONITOR DISPLAY	SUPPLIED BY OTHERS

1	CC	2021-12-08	CHANGED DISPLAY SETTINGS/DISPLAY OPENING
0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
future systems inc			
All dimensions in inches. Do not manually alter CAD drawings, Do not scale			
Client Spokane Transit			
Property of STA			
Title HPT MARKER FRONT MONITOR PANEL DETAILS			
Scale NTS		Date 2021-01-25	
Drawn CC		Page 1 OF 2	
Drawing No. FSI-08-12-015			Rev 1

IF IN DOUBT ASK

ITEM: 2 - HPT MARKER FRONT PANEL

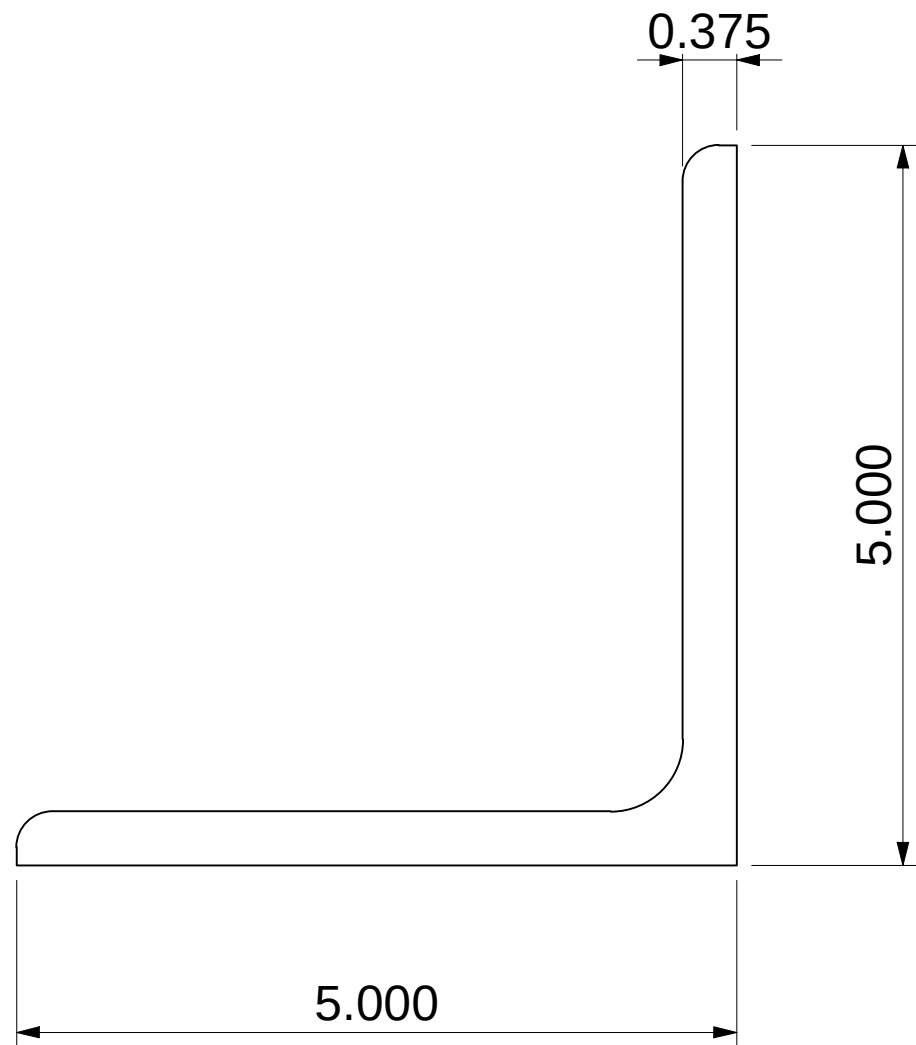
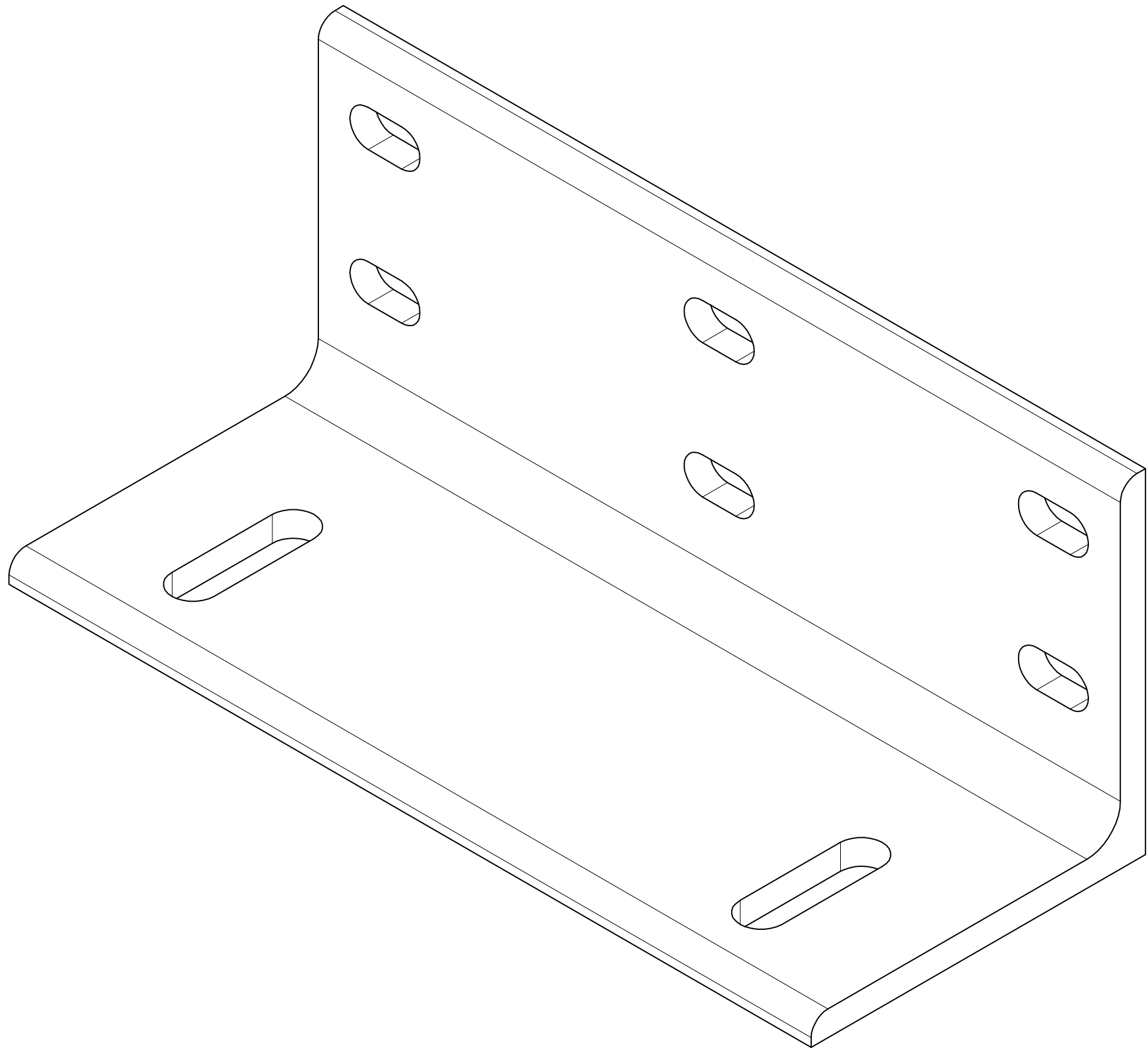
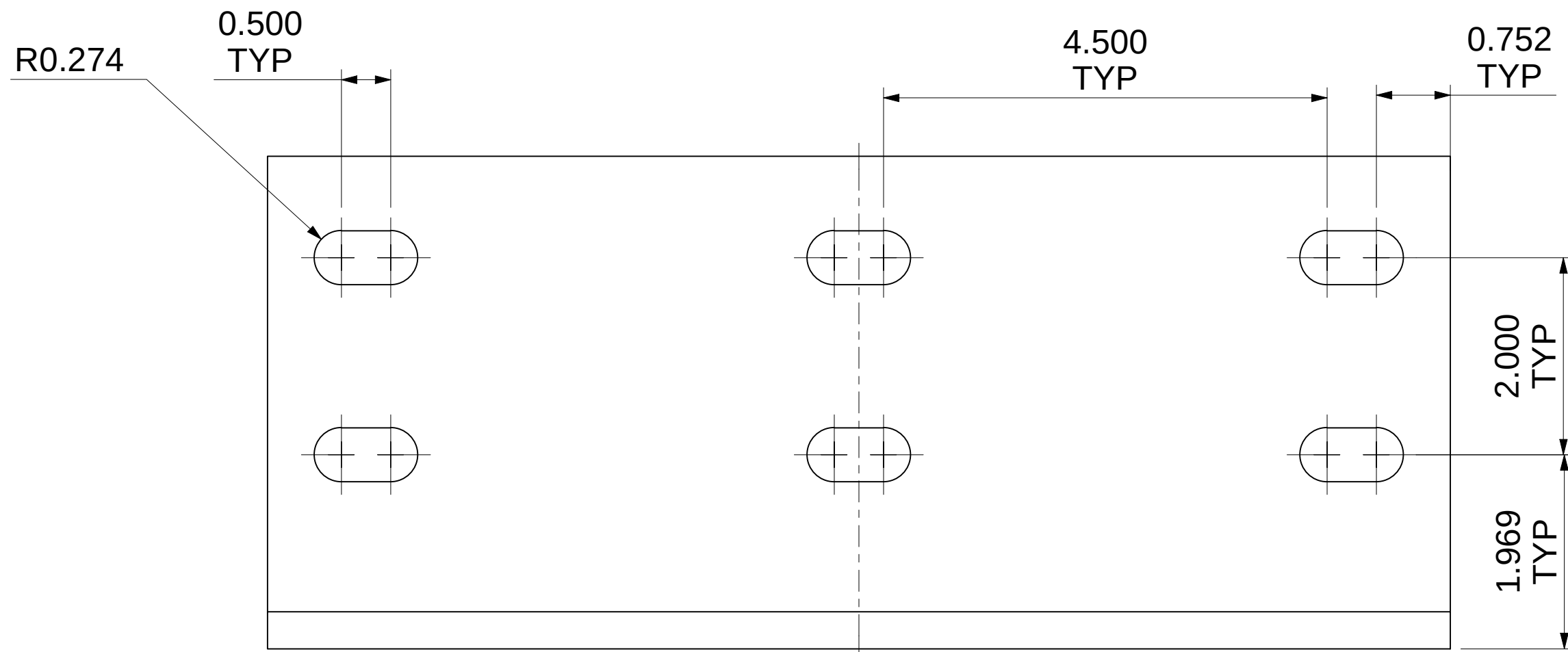
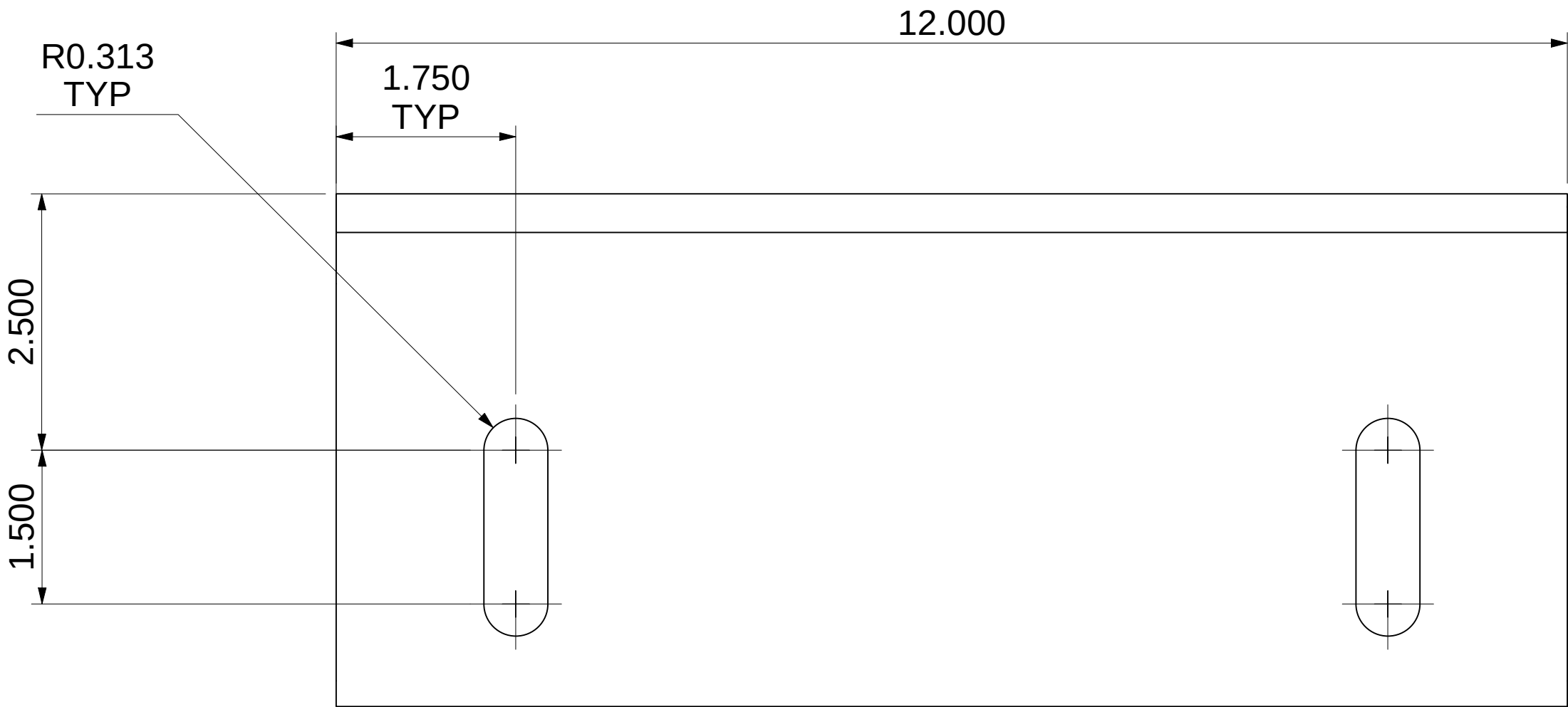
DETAIL 1
TYPICAL SLOT DETAIL



MATERIAL: 11 GAUGE STAINLESS STEEL
QTY REQUIRED: 1

All dimensions in inches. Do not manually alter CAD drawings, Do not scale	
Client	Spokane Transit
Property of STA	
Title HPT MARKER FRONT MONITOR PANEL DETAILS	
Scale NTS	Date 2021-01-25
Drawn CC	Page 2 OF 2
Drawing No. FSI-08-12-015	Rev 1

IF IN DOUBT ASK



Notes: Remove all sharp edges and burrs unless otherwise stated

Material: A36 Steel Angle

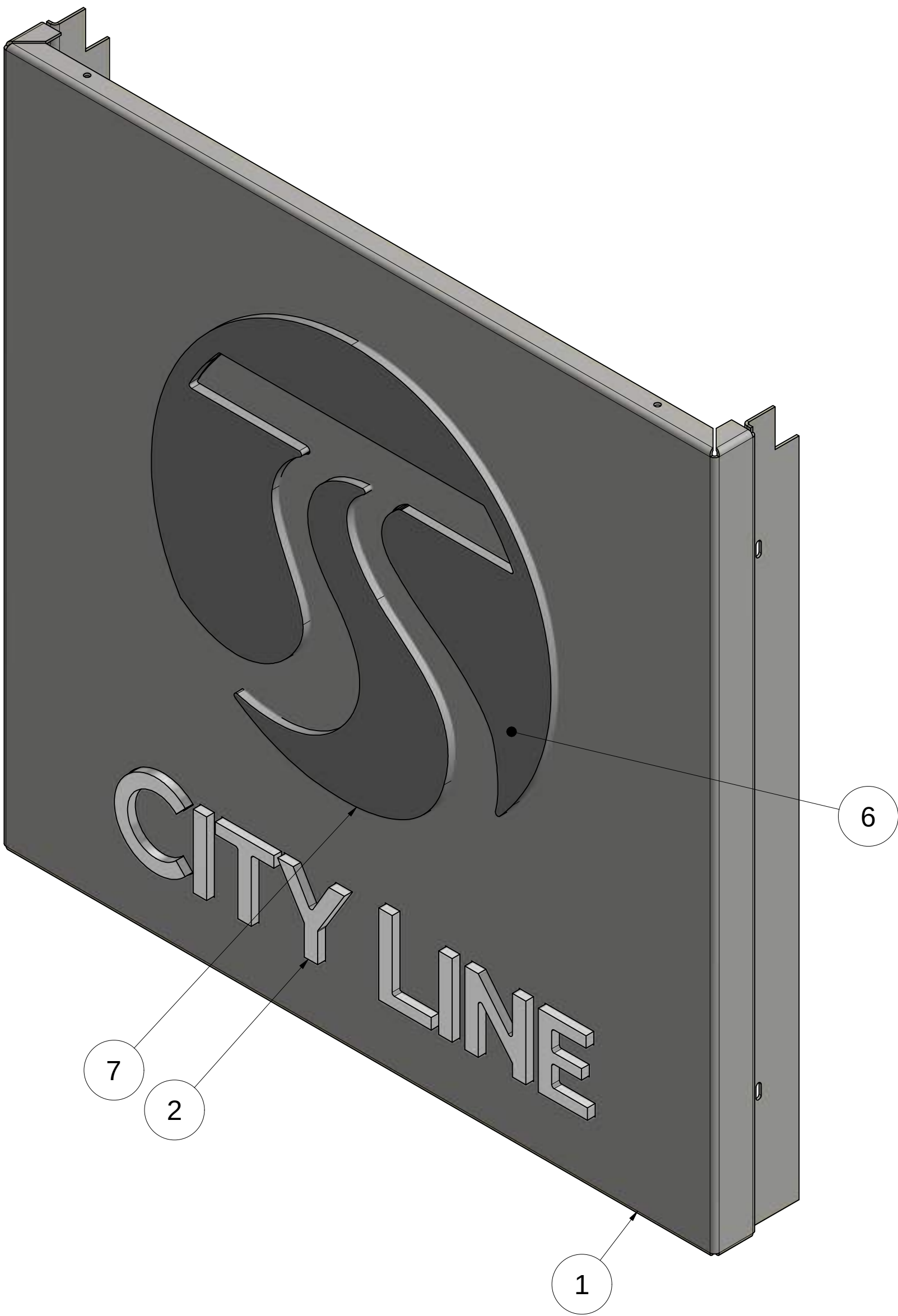
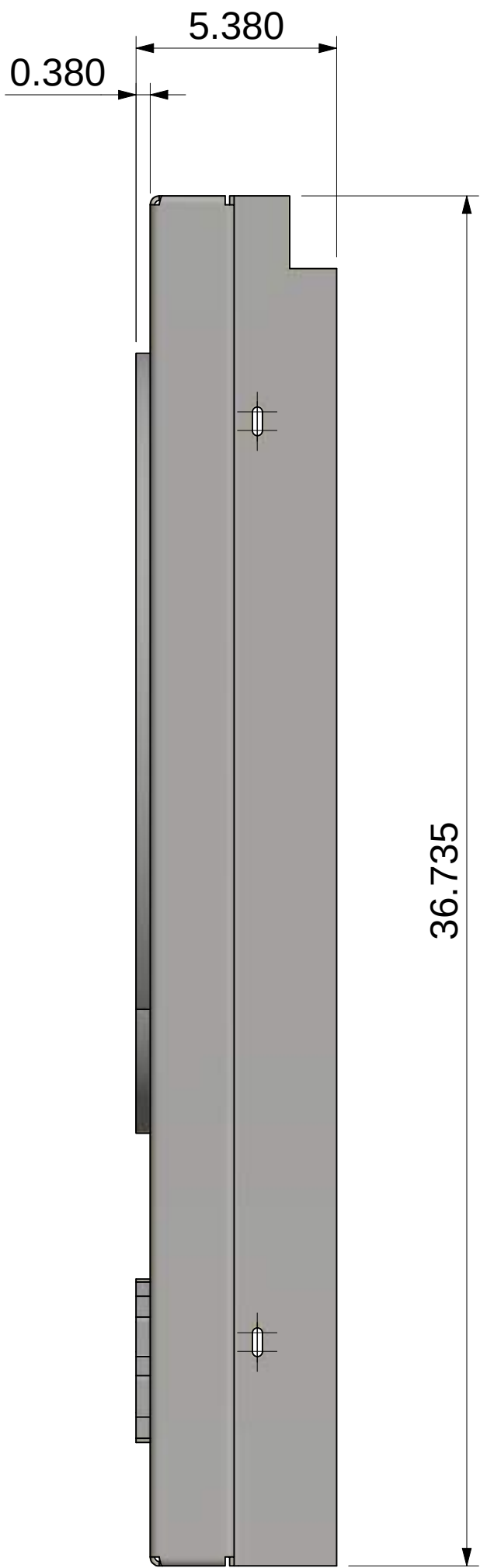
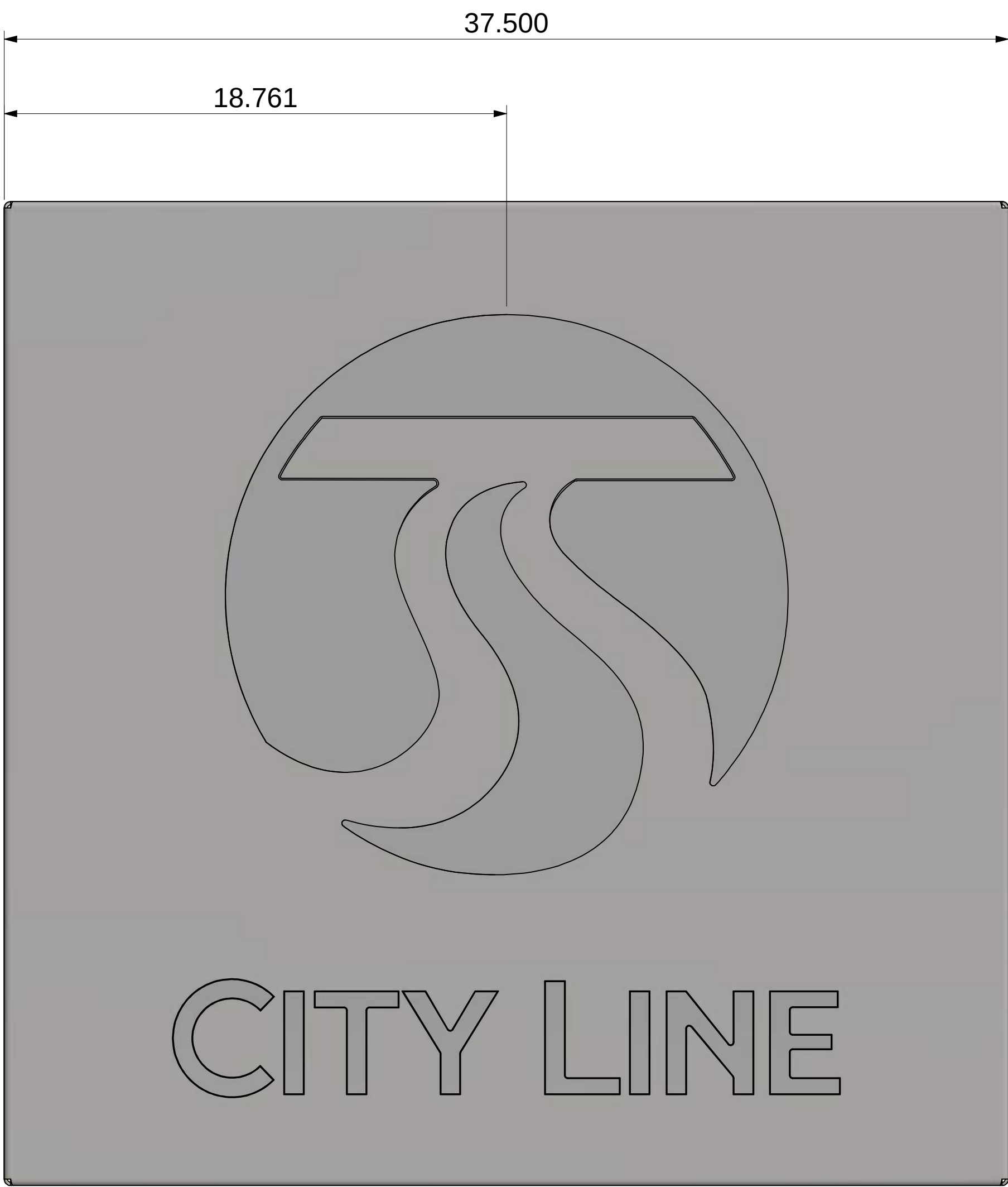
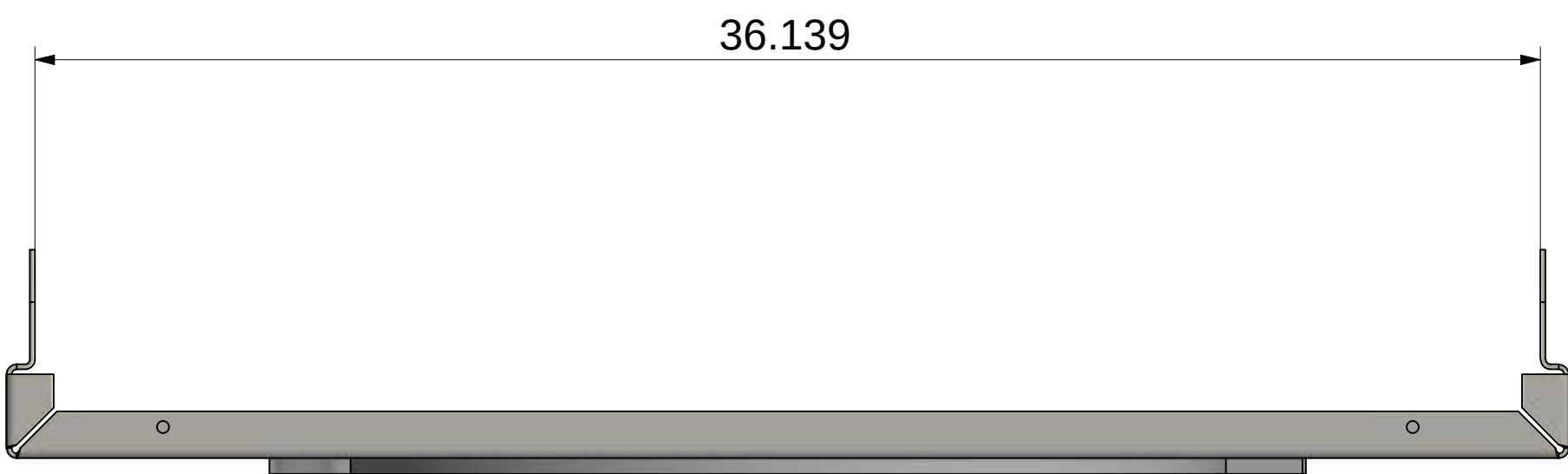
Finish: Steel Assemblies to be galvanized.

Assemblies Required: 1

Tolerances unless stated otherwise to be at $\pm 1/32$ "

0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
All dimensions in inches. Do not manually alter CAD drawings, Do not scale			
Client Spokane Transit			
Property of STA			
Title MARKER TO CANOPY CONNECTION ANGLE			
Scale NTS		Date 2021-03-27	
Drawn CC		Page 1 OF 1	
Drawing No. FSI-08-12-016			Rev 0

IF IN DOUBT ASK



Notes: Remove all sharp edges and burrs unless otherwise stated.

Panel to be pre-assembled without any electrical. Silicon to be applied around push through logo by general contractor once all vinyl wrap has been applied.

Material: Stainless Steel, and Translucent Acrylic

Finish: Stainless Cladding to be vinyl wrapped. All cladding vinyl wrap to be done by others.

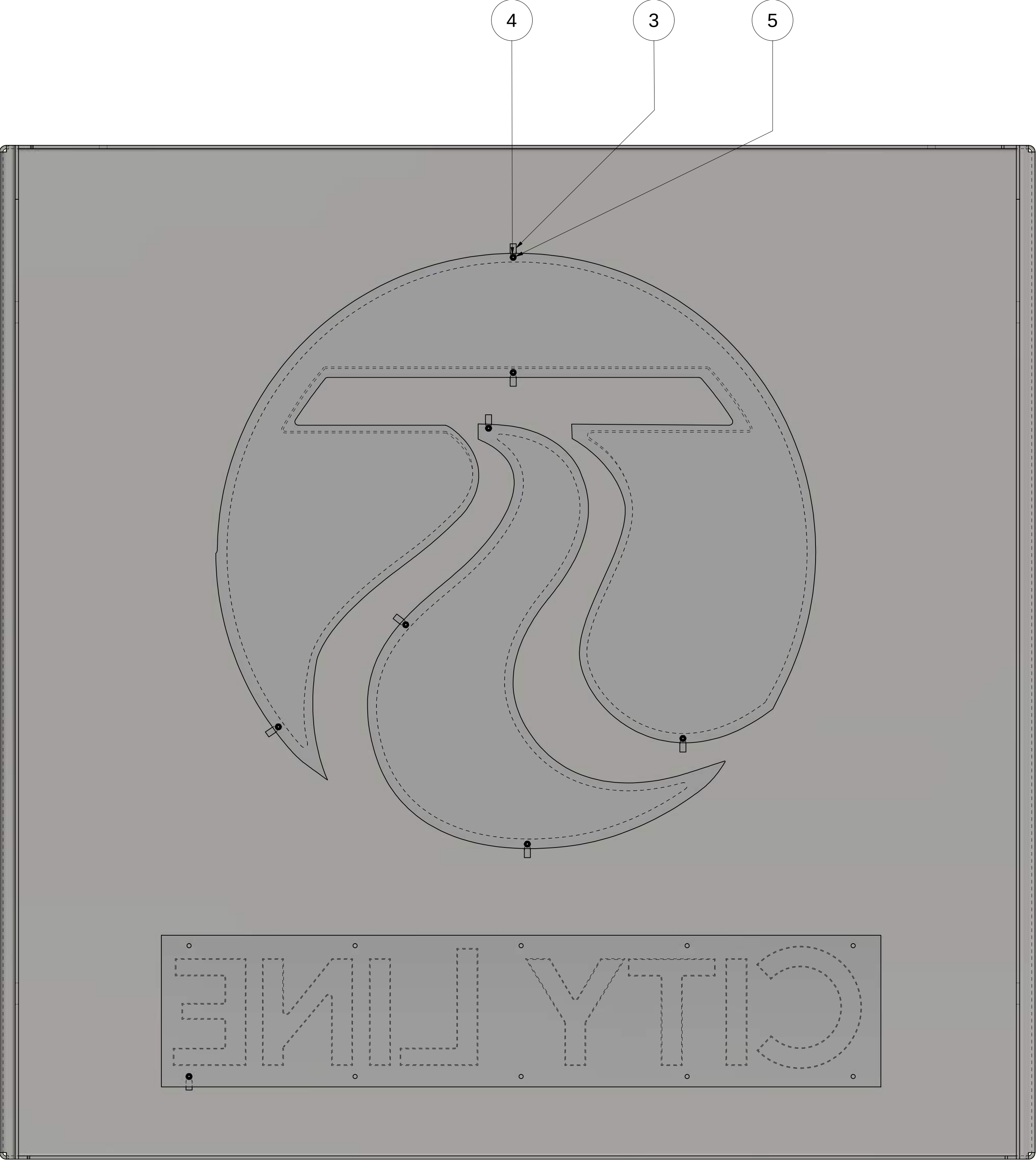
Panels Required Per Marker: 2

Tolerances unless stated otherwise to be at $\pm 1/32$ "

PARTS LIST			
ITEM	QTY	DRAWING NUMBER	DESCRIPTION
1	1	HPT MARKER UPPER FRONT PANEL	SEE SHEET 3 AND 4
2	1	City Line Lettering Logo	SEE SHEET 5
3	17	TYPE 18-8 SS RIGHT-ANGLE WELD STUD (No. 6)	96466A010 McMaster-Carr OR EQUIVALANT
4	17	No. 6 - PLAIN WASHER	90618A300 - McMaster-Carr OR EQUIVILANT
5	17	HEX NUT	92362A120 - McMaster-Carr OR EQUIVILANT
6	1	BUG LOGO TOP	SEE SHEET 13
7	1	BUG LOGO BOTTOM	SEE SHEET 14
8	1	3M SUPER SILICONE SEALANT	74955A54 McMASTER-CARR OR EQUIVILANT

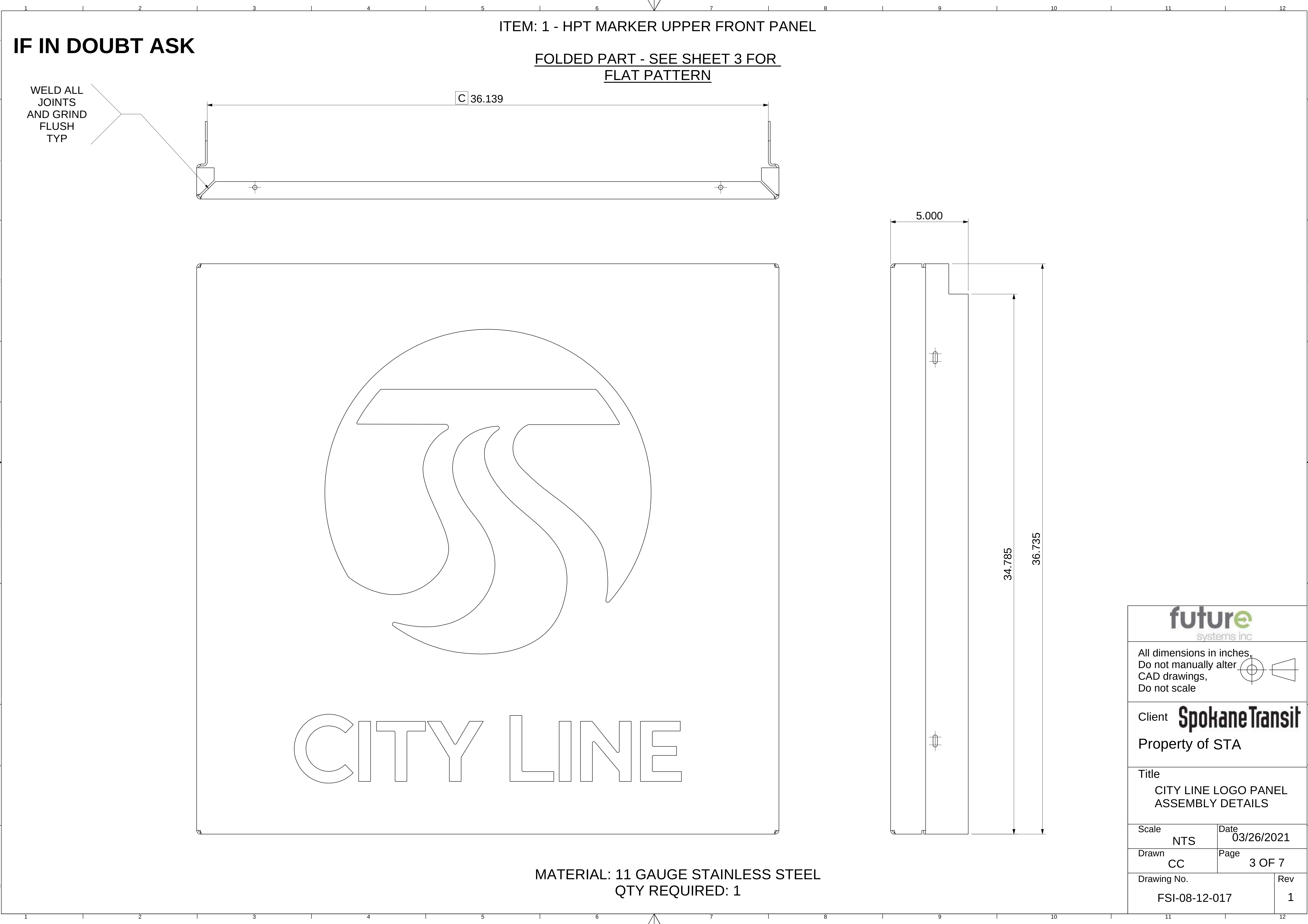
1	CC	2021-12-08	CHANGED NOTES
0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
future systems inc			
All dimensions in inches. Do not manually alter CAD drawings, Do not scale			
Client Spokane Transit			
Property of STA			
Title CITY LINE LOGO PANEL ASSEMBLY DETAILS			
Scale NTS		Date 03/26/2021	
Drawn CC		Page 1 OF 7	
Drawing No. FSI-08-12-017			Rev 1

IF IN DOUBT ASK



REAR VIEW

	
All dimensions in inches. Do not manually alter CAD drawings, Do not scale	
Client Spokane Transit Property of STA	
Title CITY LINE LOGO PANEL ASSEMBLY DETAILS	
Scale NTS	Date 03/26/2021
Drawn CC	Page 2 OF 7
Drawing No. FSI-08-12-017	Rev 1



IF IN DOUBT ASK

ITEM: 1 - HPT MARKER UPPER FRONT PANEL

FOLDED PART - SEE SHEET 3 FOR
FLAT PATTERN

WELD ALL
JOINTS
AND GRIND
FLUSH
TYP

C 36.139

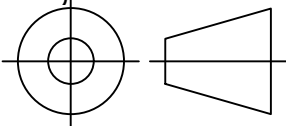
5.000

34.785

36.735

future
systems inc

All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale



Client **Spokane Transit**
Property of STA

Title
CITY LINE LOGO PANEL
ASSEMBLY DETAILS

Scale NTS Date 03/26/2021

Drawn CC Page 3 OF 7

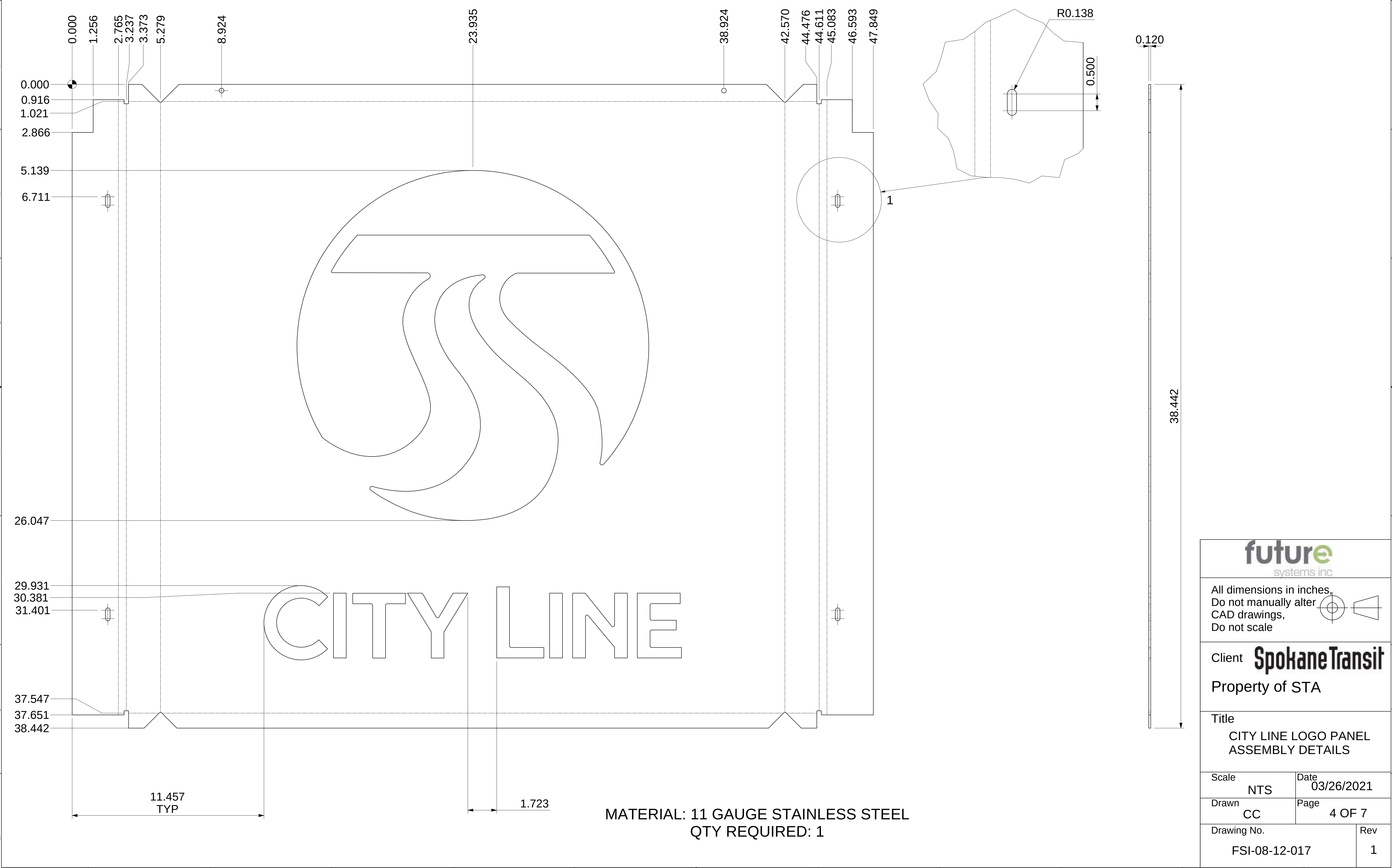
Drawing No. FSI-08-12-017 Rev 1

IF IN DOUBT ASK

ITEM: 1 - HPT MARKER UPPER FRONT PANEL

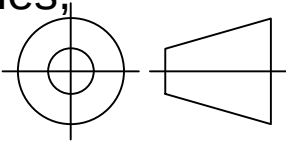
FLAT PATTERN - SEE SHEET 2 FOR
FOLDED PART

DETAIL 1



future
systems inc

All dimensions in inches.
Do not manually alter
CAD drawings,
Do not scale



Client **Spokane Transit**
Property of STA

Title
CITY LINE LOGO PANEL
ASSEMBLY DETAILS

Scale NTS Date 03/26/2021

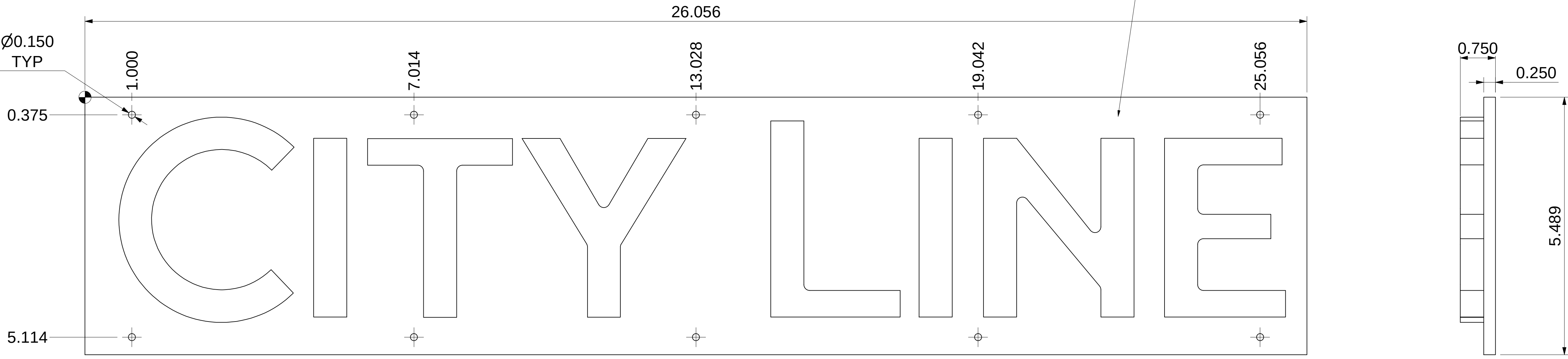
Drawn CC Page 4 OF 7

Drawing No. FSI-08-12-017 Rev 1

IF IN DOUBT ASK

ITEM: 3 - ACRYLIC SPOKANE PUSH
THROUGH LETTERING LOGO

FACES OF LOGOS TO WRAPPED IN GREY VINYL:
3M WRAP FILM SERIES 2080BR120

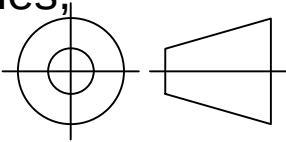


MATERIAL: CLEAR ACRYLIC WITH
WHITE TRANSLUCENT VINYL WRAP

QTY REQUIRED: 1

future
systems inc

All dimensions in inches.
Do not manually alter
CAD drawings,
Do not scale

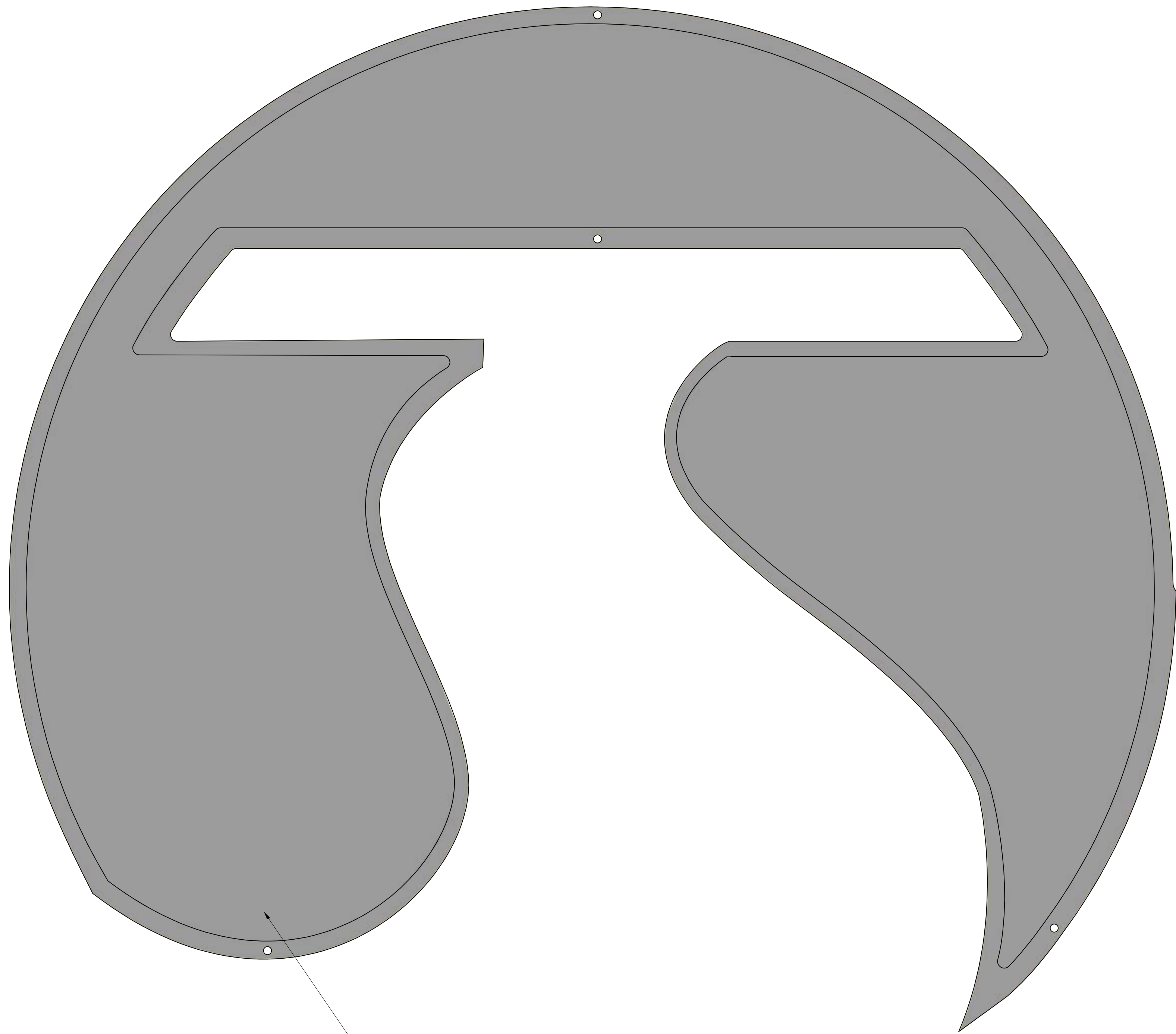


Client **Spokane Transit**
Property of STA

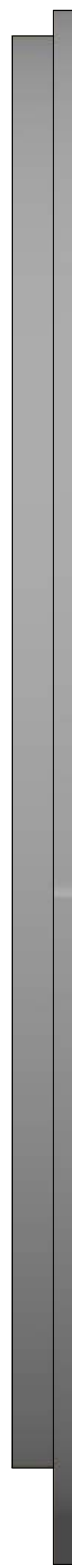
Title
CITY LINE LOGO PANEL
ASSEMBLY DETAILS

Scale NTS	Date 03/26/2021
Drawn CC	Page 5 OF 7
Drawing No. FSI-08-12-017	Rev 1

IF IN DOUBT ASK

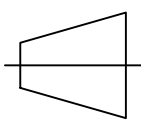
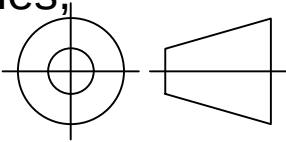


FACES OF LOGOS TO WRAPPED IN GREY VINYL:
3M WRAP FILM SERIES 2080BR120



future
systems inc

All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale



Client **Spokane Transit**
Property of STA

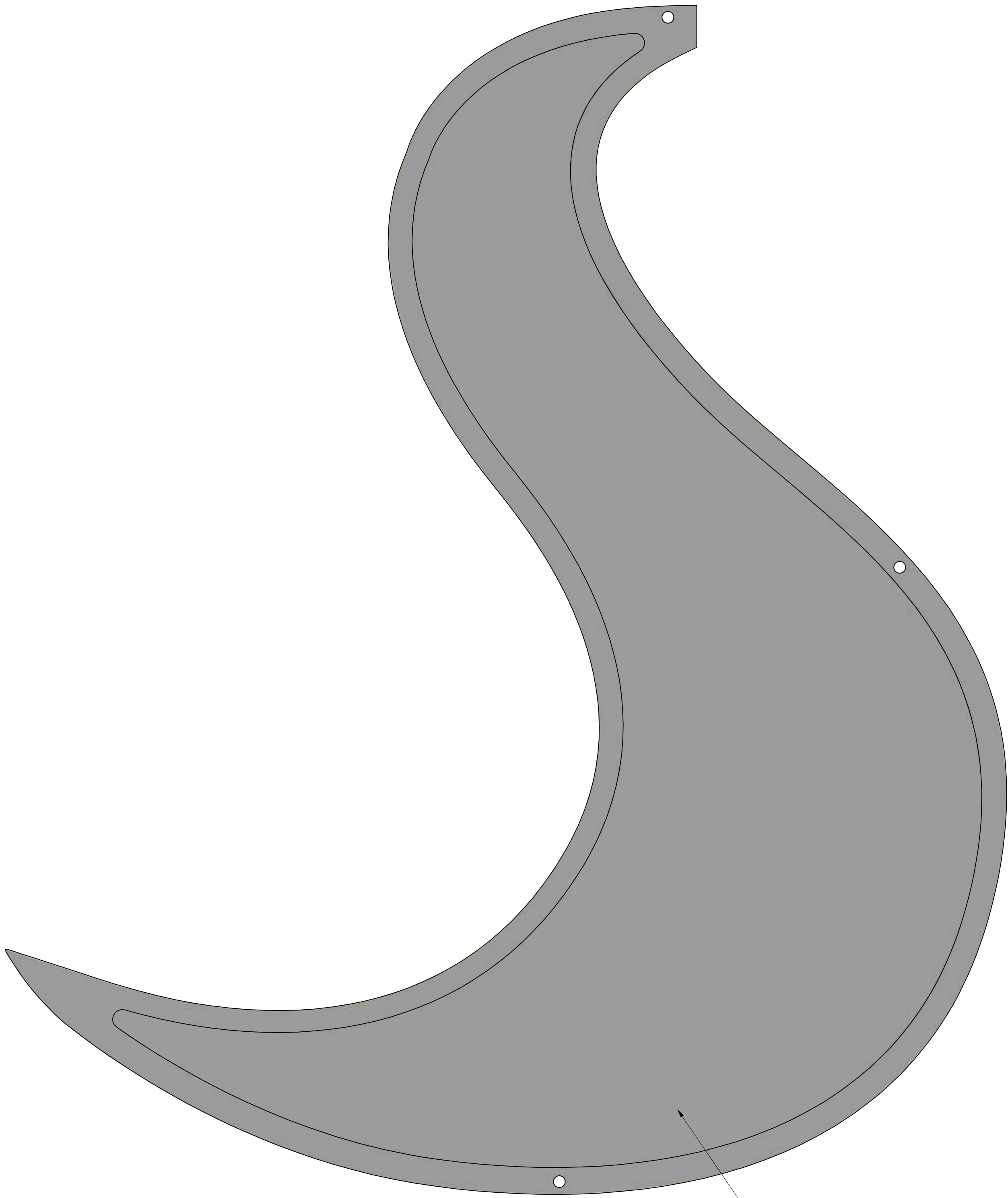
Title
CITY LINE LOGO PANEL
ASSEMBLY DETAILS

Scale NTS Date 03/26/2021

Drawn CC Page 6 OF 7

Drawing No. FSI-08-12-017 Rev 1

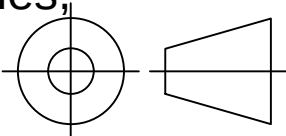
IF IN DOUBT ASK



FACES OF LOGOS TO WRAPPED IN GREY VINYL:
3M WRAP FILM SERIES 2080BR120



All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale



Client **Spokane Transit**
Property of STA

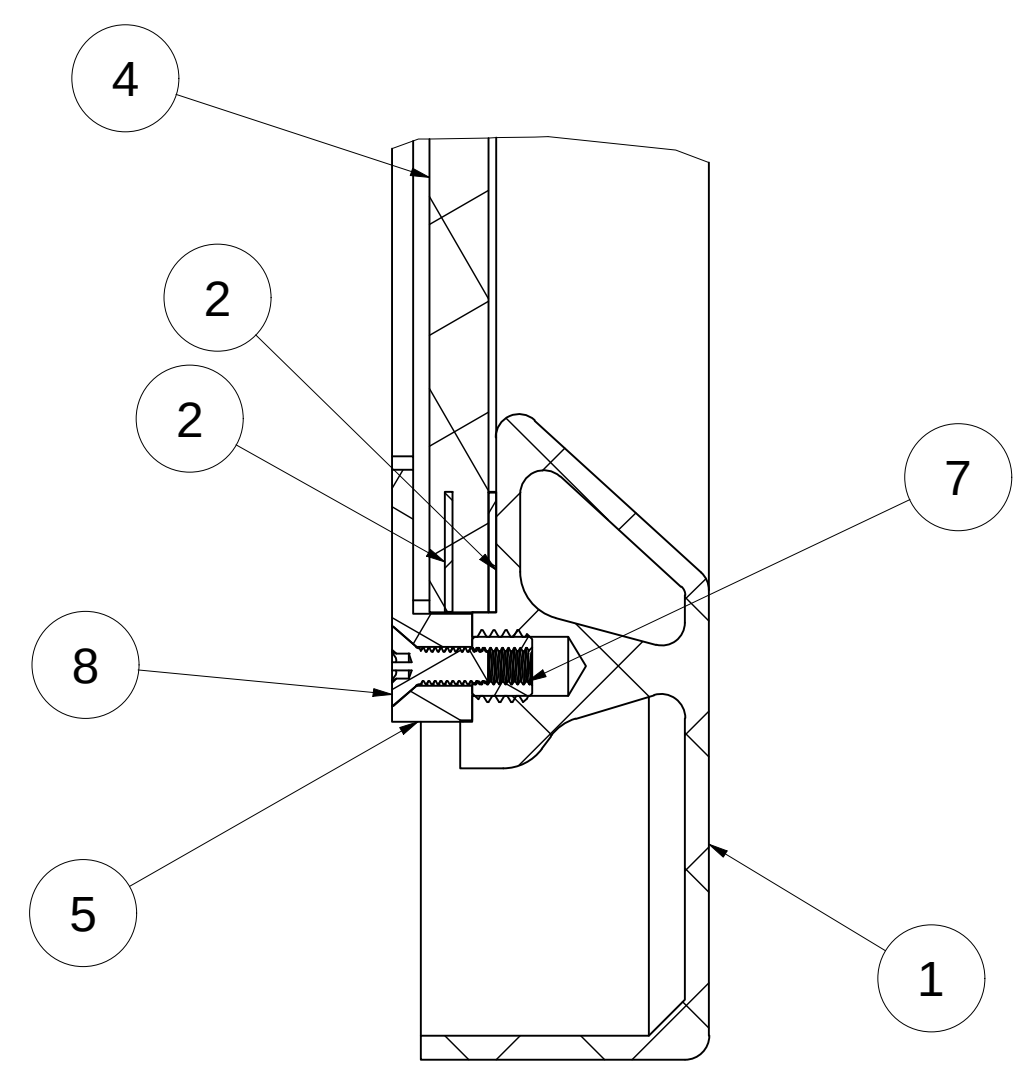
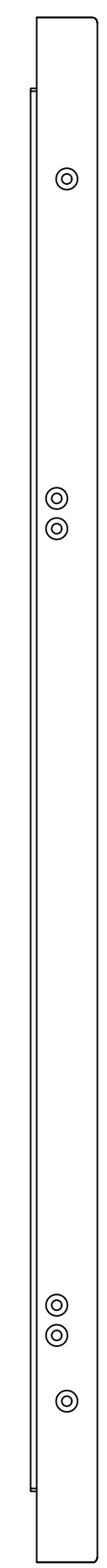
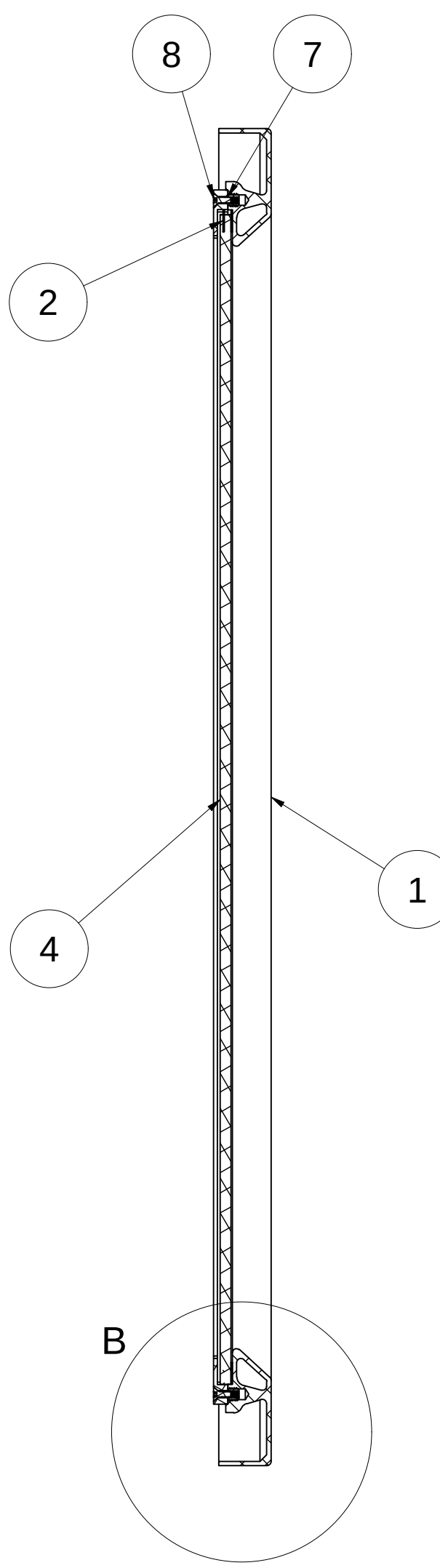
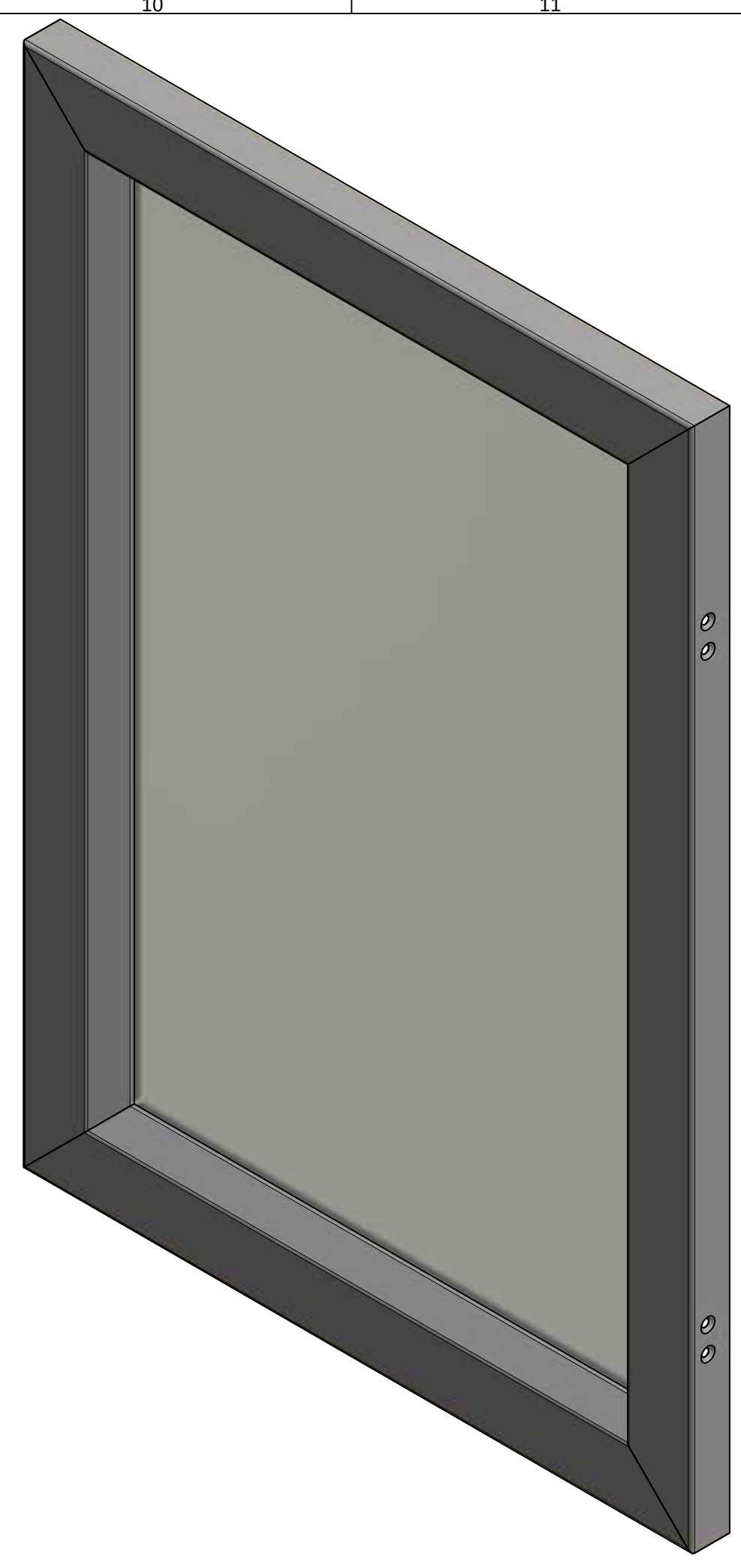
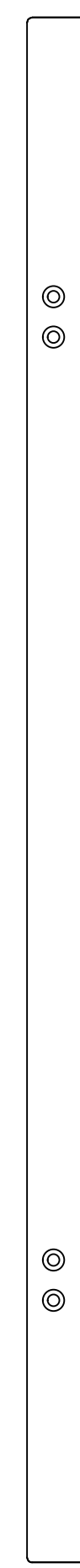
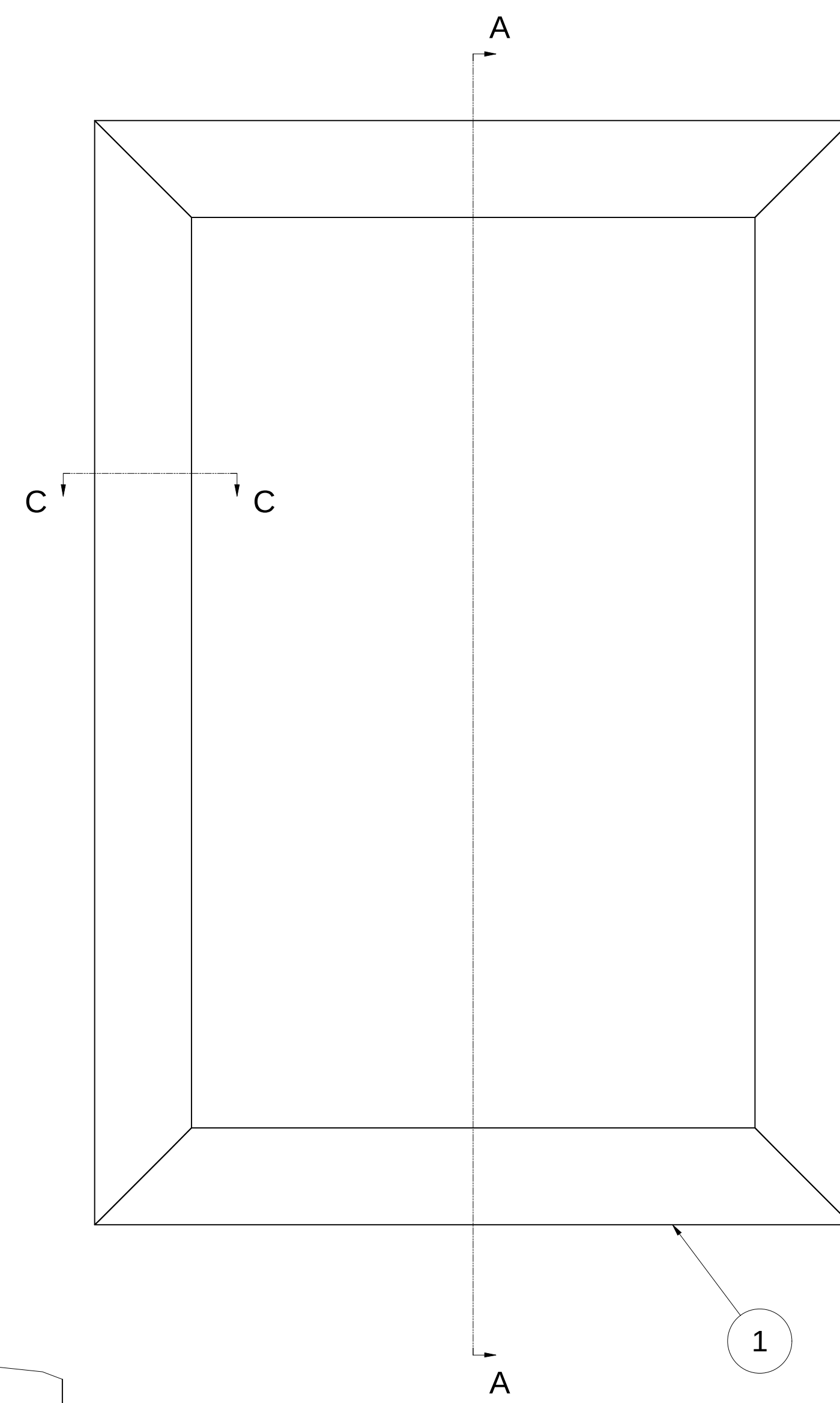
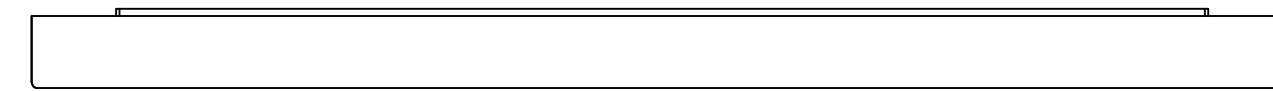
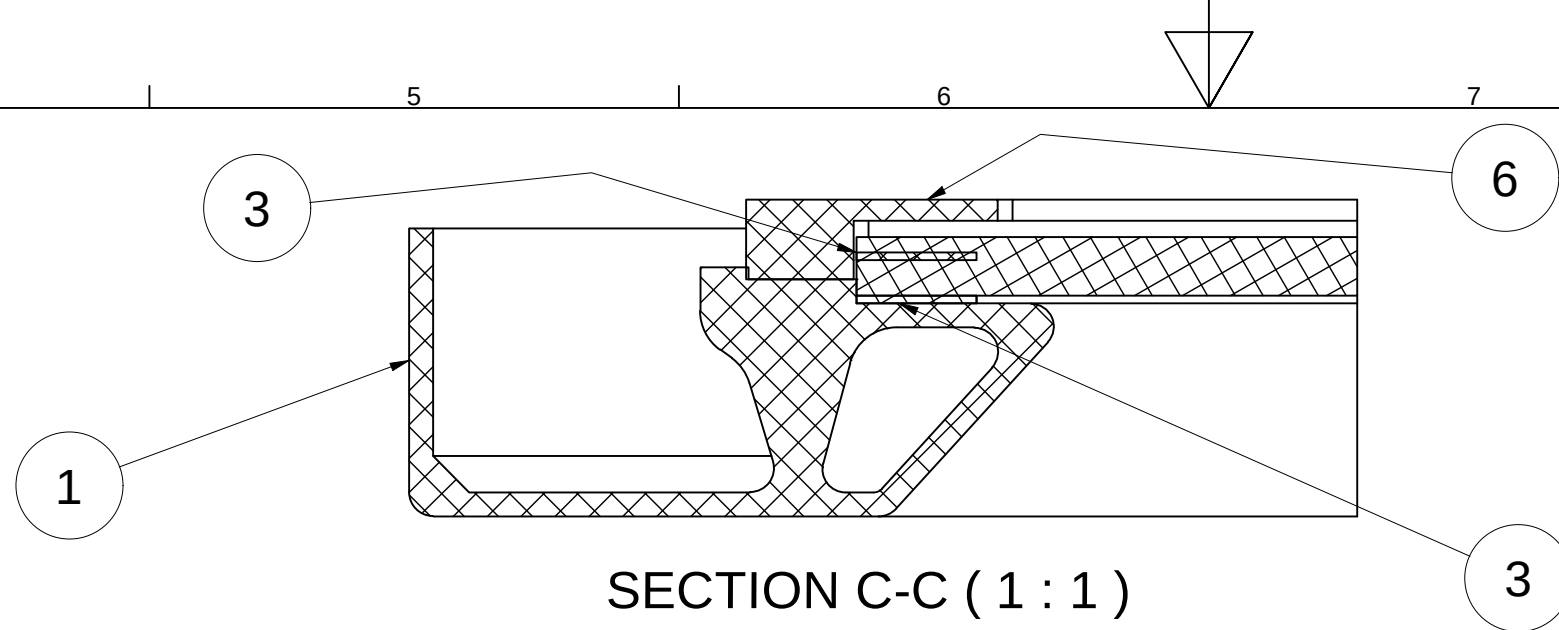
Title
CITY LINE LOGO PANEL
ASSEMBLY DETAILS

Scale NTS Date 03/26/2021

Drawn CC Page 7 OF 7

Drawing No. FSI-08-12-017 Rev 1

IF IN DOUBT ASK



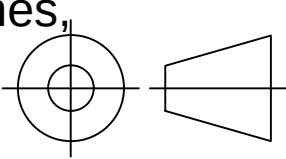
- Notes:
- * Install Key Lock Inserts into map frame
 - * Apply adhesive backed gasket to map frame
 - * Apply adhesive backed gasket to retaining strips
 - * Lay glass into frame
 - * Attach retaining strips with 10-32 security flat head screws

PARTS LIST			
ITEM	QTY	DRAWING NUMBER	DESCRIPTION
1	1	FSI-08-12-301	Welded Map Case Frame
2	4	3949N114	Horizontal EPDM adhesive backed gasket (McMaster Carr)
3	4	3949N114	Vertical EPDM adhesive backed gasket (McMaster Carr)
4	1	GLASS	7.8mm thick clear tempered laminated glass with polished edges
5	2	FSI-08-12-301-04	Horizontal Retaining Strip
6	2	FSI-08-12-301-05	Vertical Retaining Strip
7	14	91731A049	18-8 Stainless Steel Key-Locking Inserts (McMaster Carr)
8	14	91870A220	Tamper-Resistant Torx Flat Head Screws (McMaster Carr)

2	CC	2022-01-07	CHANGED GLASS DESCRIPTION
1	CC	2021-12-30	CHANGED BOLT LENGTH
0	RN	2021-09-21	AS BUILT
REV	DESIGNER	Date	REV DETAILS



All dimensions in inches.
Do not manually alter
CAD drawings,
Do not scale



Client **Spokane Transit**
Property of STA

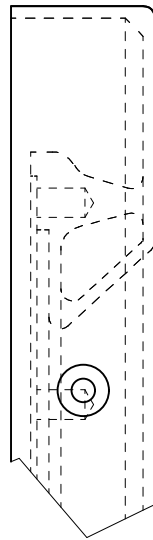
Title
Map Case Frame Assembly

Scale NTS Date 2021-09-20

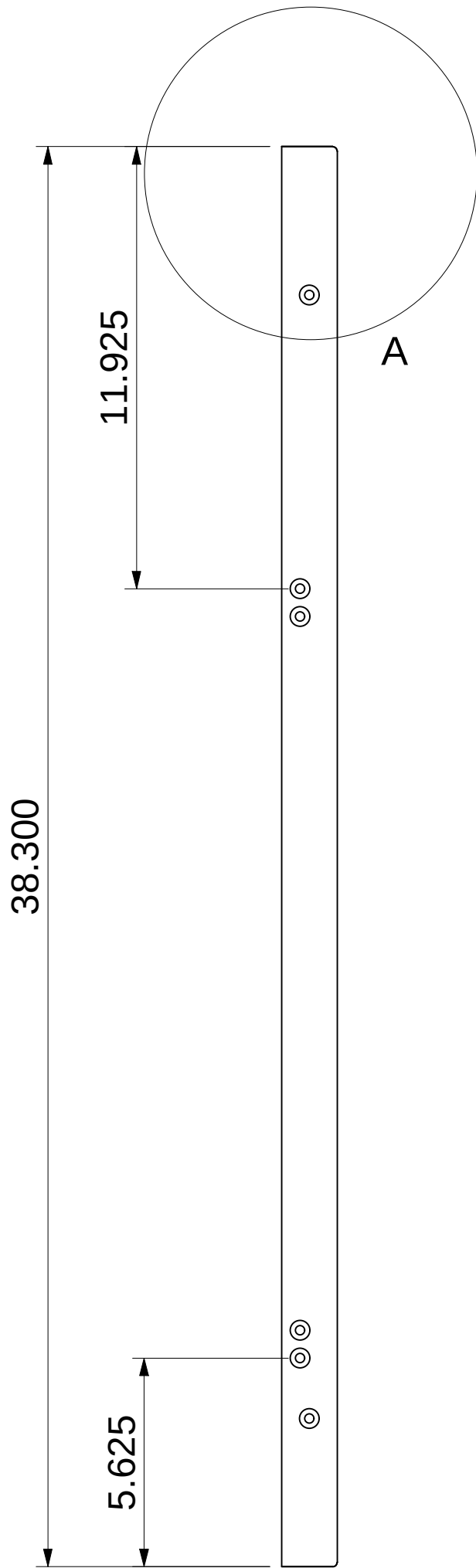
Drawn RN Page 1 OF 1

Drawing No. FSI-08-12-301-ASSY Rev 2

IF IN DOUBT ASK



DETAIL A (1 / 2)



TYP 3/16

2

1

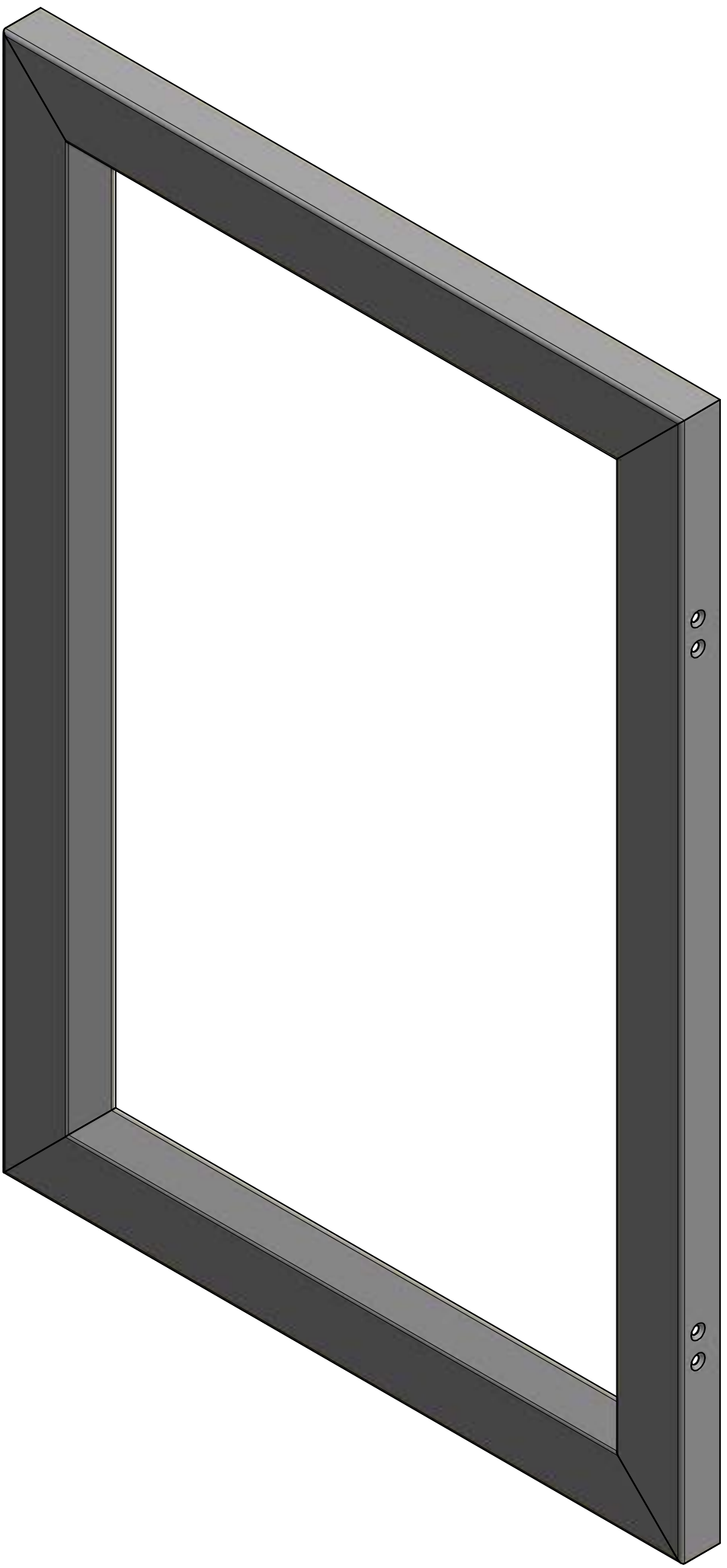
3

1

26.264

6.918

6.500



Notes: Remove all sharp edges and burrs unless otherwise stated

Plug tapped holes for powder coat

Material: Aluminum 6061 Extrusions

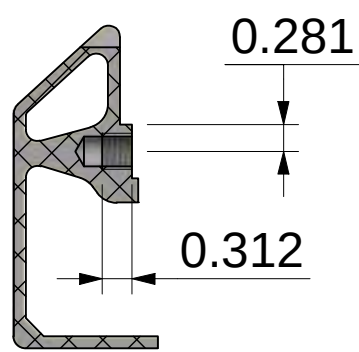
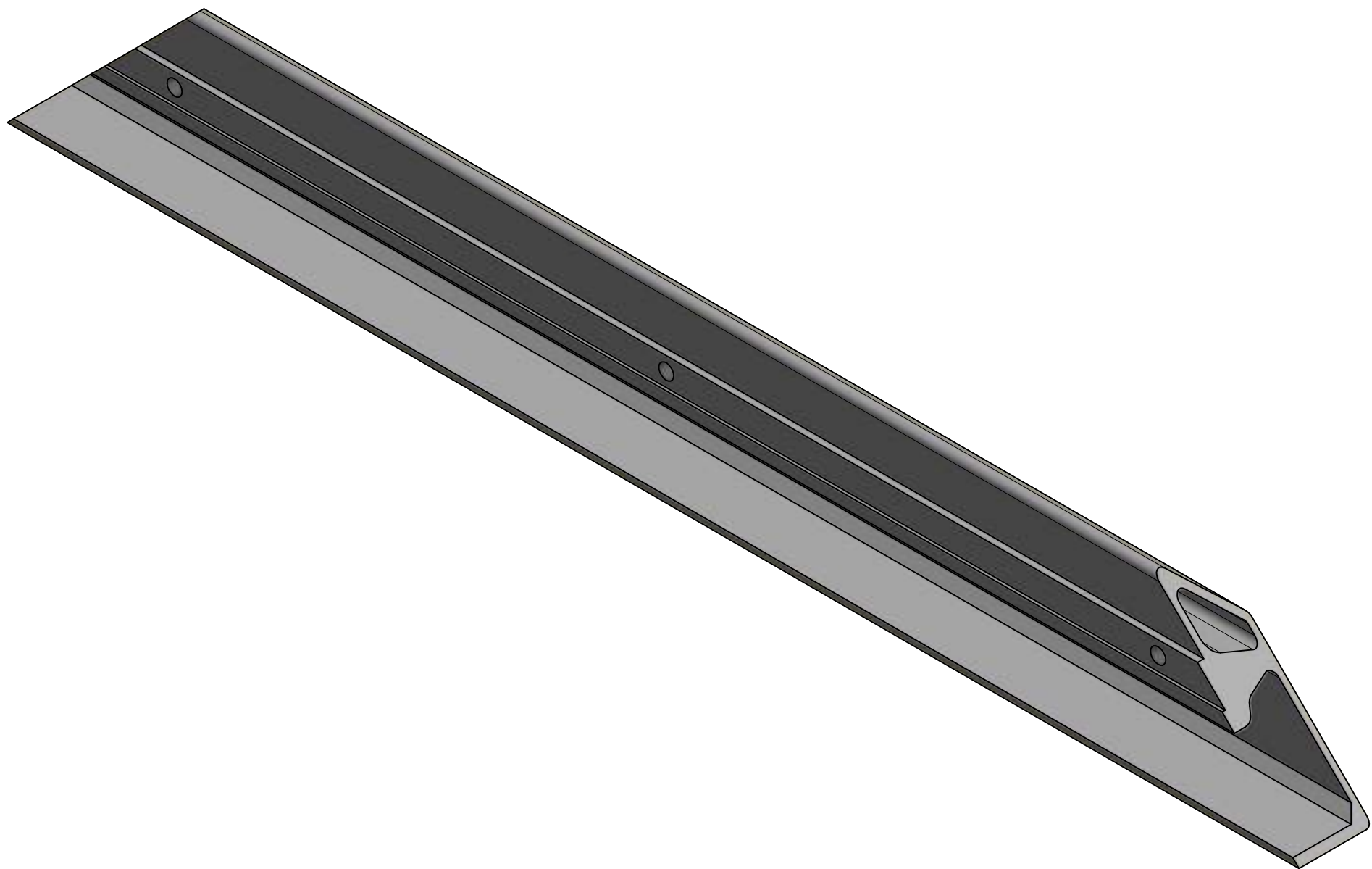
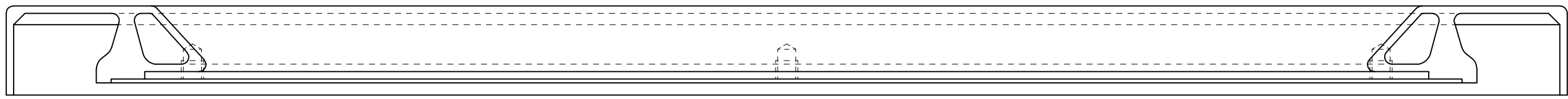
Finish: Powder Coat - SD RAL 9005 JET BLACK 25
90 - 99% Gloss

Tolerances unless stated otherwise
to be at $\pm 1/32$ "

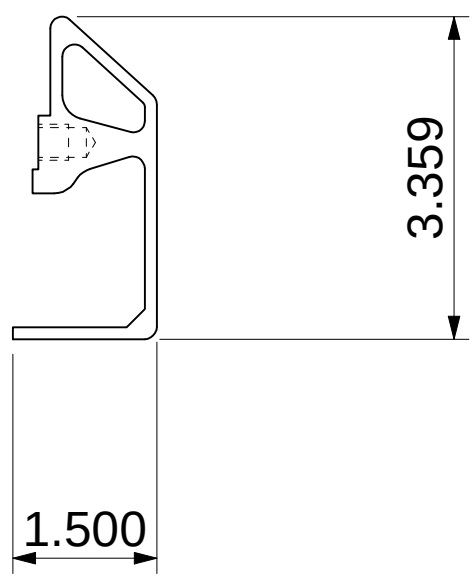
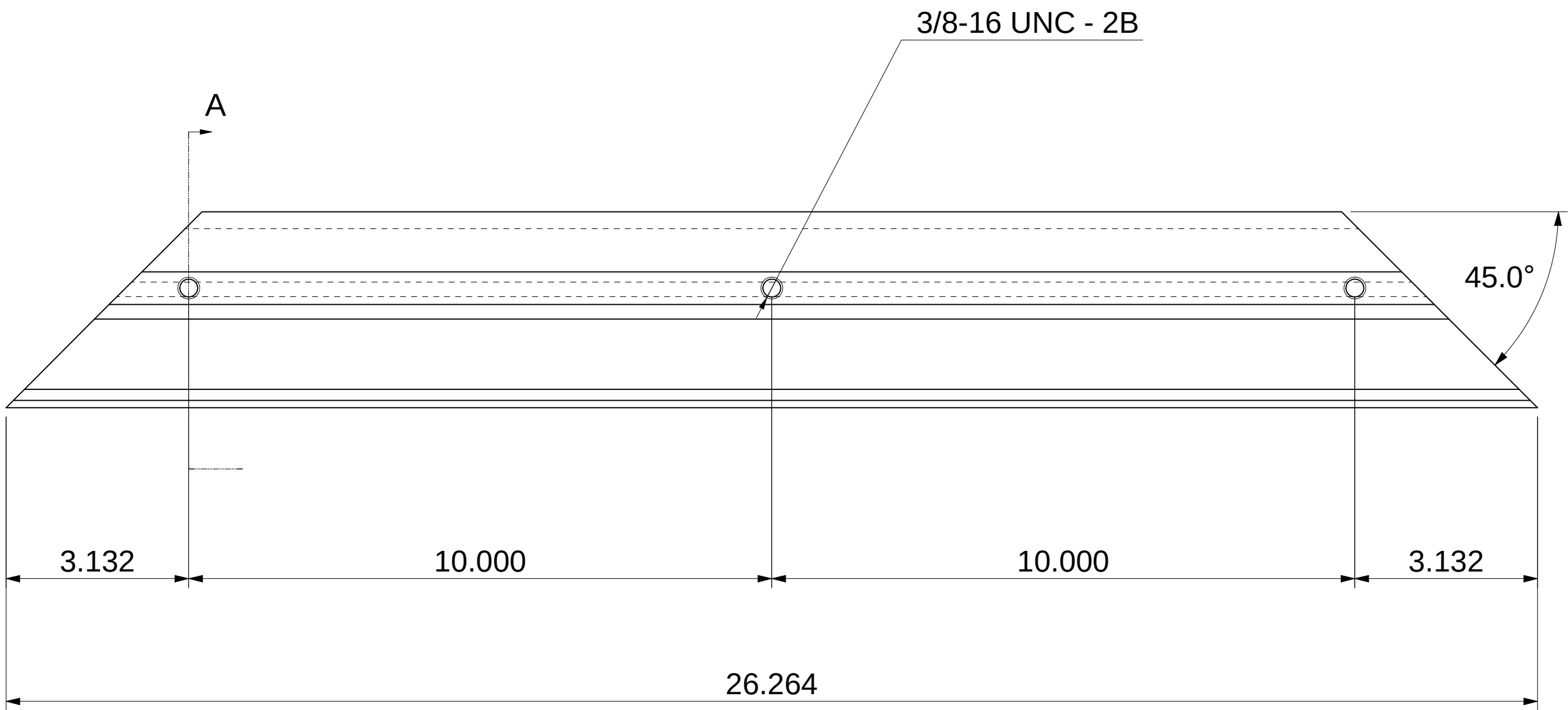
PARTS LIST			
ITEM	QTY	DRAWING NUMBER	DESCRIPTION
1	2	FSI-08-12-301-01	Map Frame Horizontal
2	1	FSI-08-12-301-02	Map Frame Vertical - 1
3	1	FSI-08-12-301-03	Map Frame Vertical - 2

0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
All dimensions in inches. Do not manually alter CAD drawings, Do not scale			
Client Spokane Transit			
Property of STA			
Title			
Map Frame Weldment			
Scale		Date	
NTS		2021-09-20	
Drawn		Page	
RN		1 OF 1	
Drawing No.			Rev
FSI-08-12-301			0

IF IN DOUBT ASK



SECTION A-A (1 : 2)



Notes: Remove all sharp edges and burrs unless otherwise stated

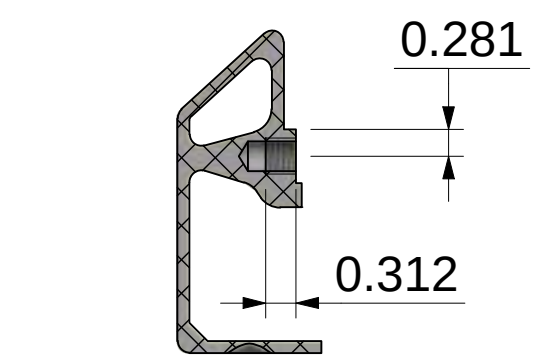
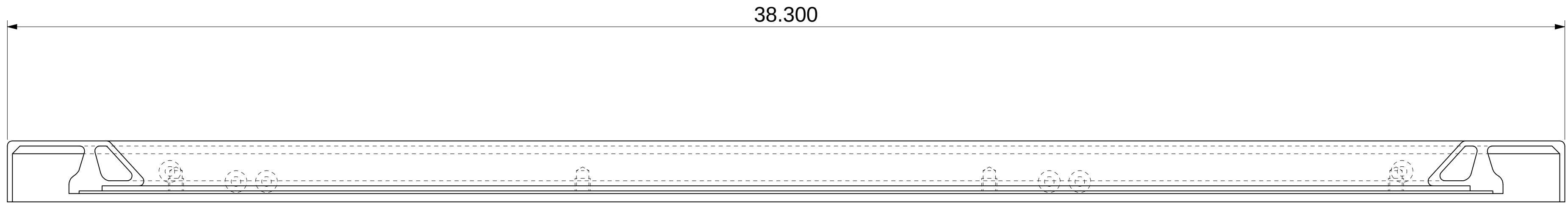
Material: Custom Aluminum Extrusion (Supplied by FSI)

Finish: Self

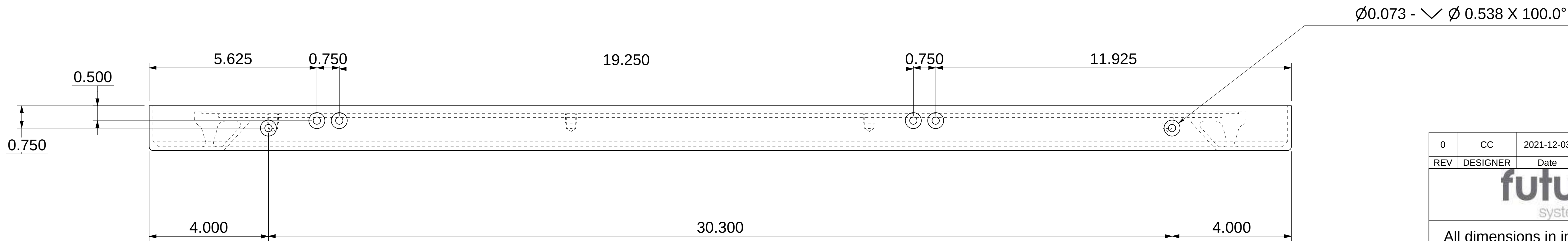
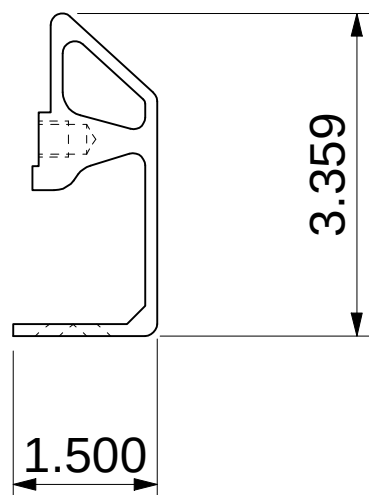
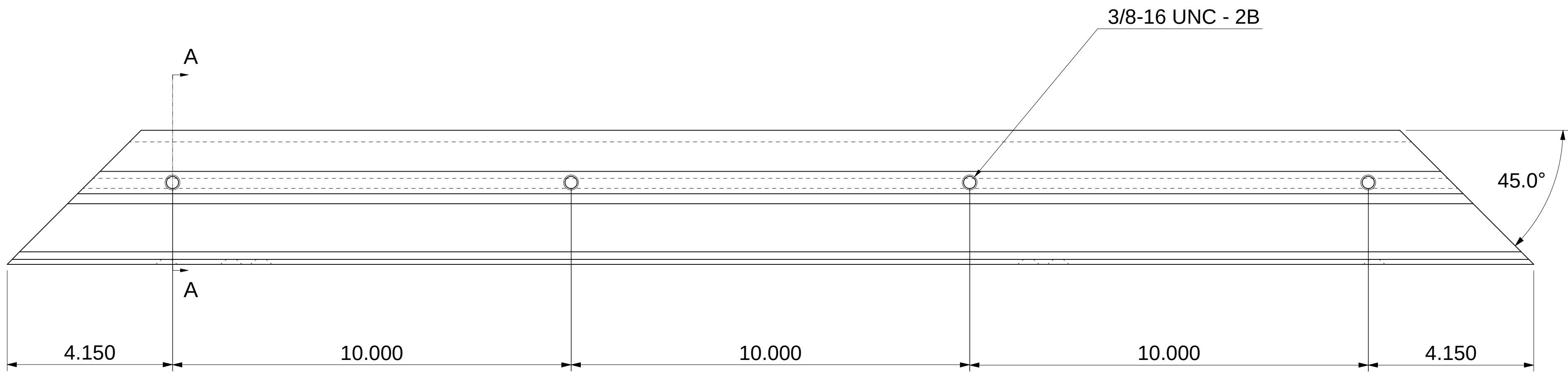
Tolerances unless stated otherwise to be at $\pm 1/32$ "

0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
All dimensions in inches. Do not manually alter CAD drawings, Do not scale			
Client			
Property of STA			
Title			
Map Frame Horizontal			
Scale		Date	
NTS		2021-09-20	
Drawn		Page	
RN		1 OF 1	
Drawing No.			Rev
FSI-08-12-301-01			0

IF IN DOUBT ASK



SECTION A-A (1 : 2)



Notes: Remove all sharp edges and burrs unless otherwise stated

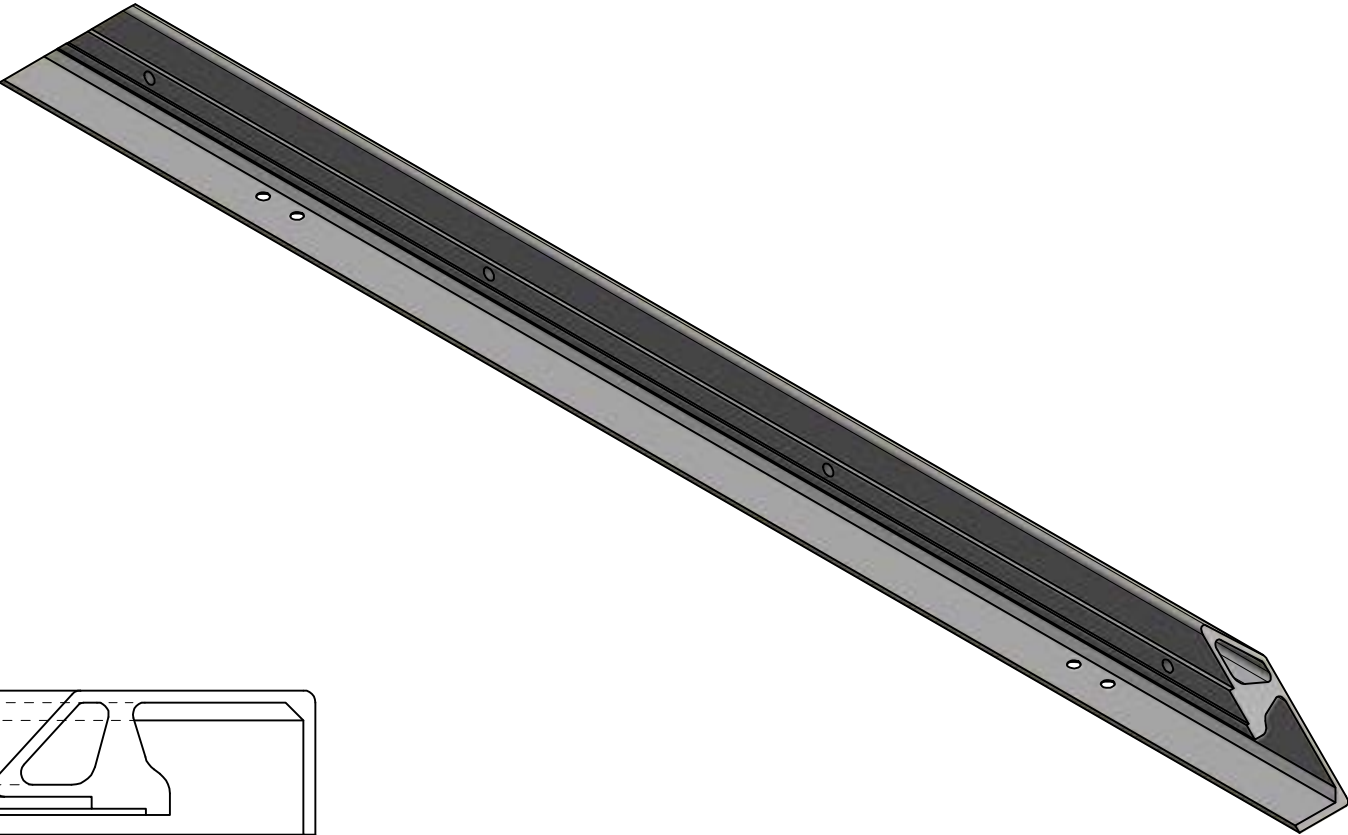
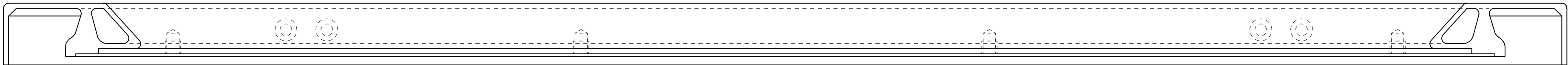
Material: Custom Aluminum Extrusion (Supplied by FSI)

Finish: Self

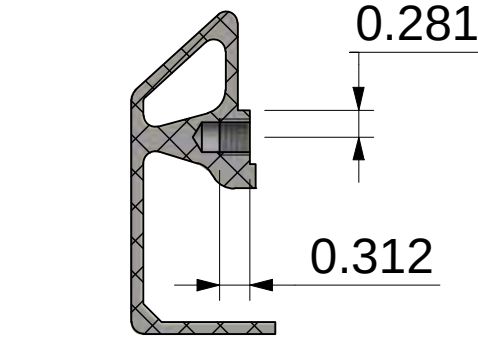
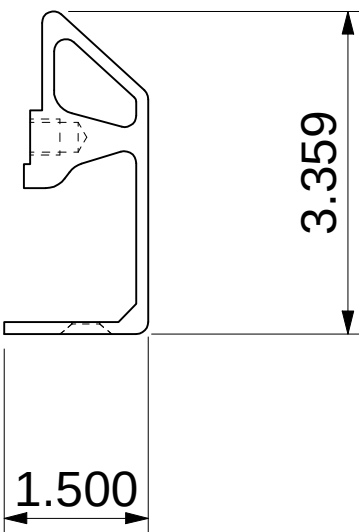
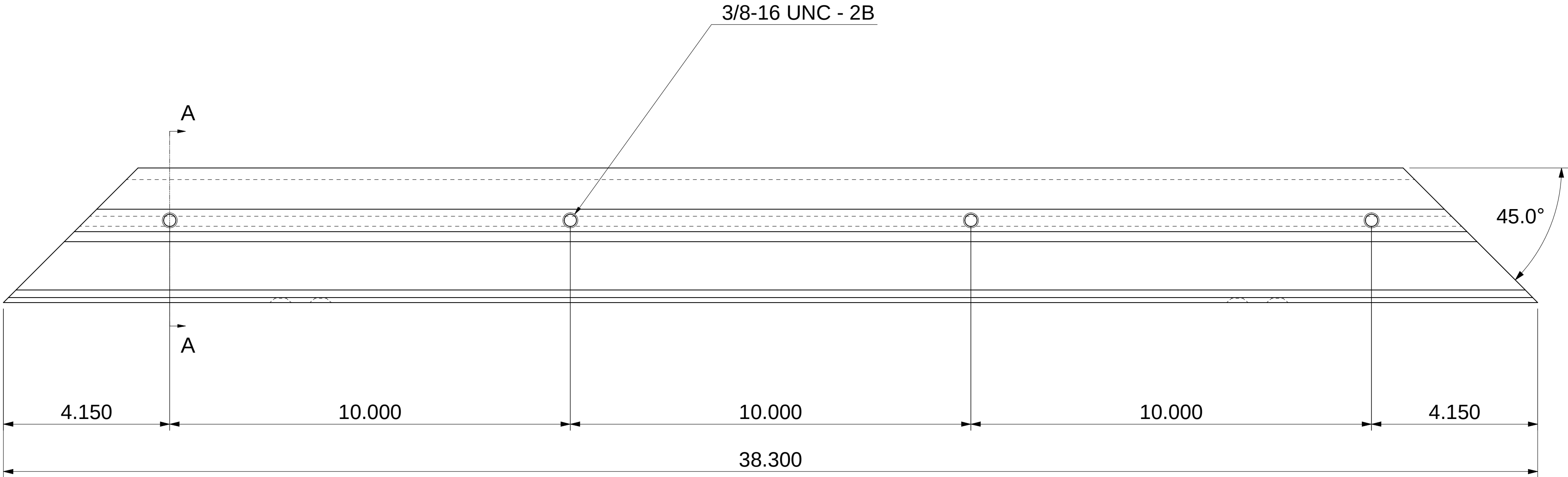
Tolerances unless stated otherwise to be at $\pm 1/32$ "

0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
			
All dimensions in inches, Do not manually alter CAD drawings, Do not scale			
Client			
Property of STA			
Title			
Map Frame Vertical - 1			
Scale		Date	
NTS		2021-09-20	
Drawn		Page	
RN		1 OF 1	
Drawing No.			Rev
FSI-08-12-301-02			0

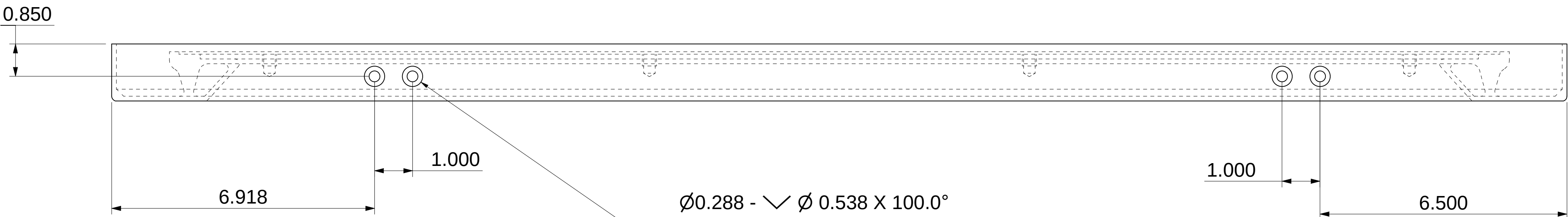
IF IN DOUBT ASK



3/8-16 UNC - 2B



SECTION A-A (1 : 2)



Notes: Remove all sharp edges and burrs unless otherwise stated

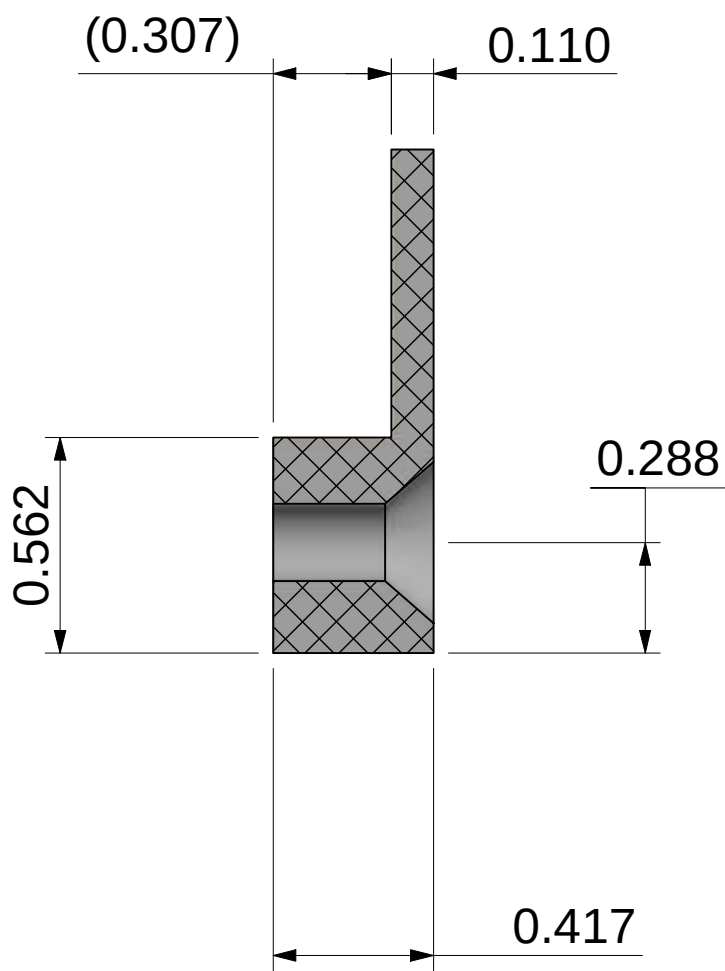
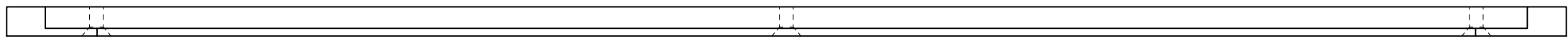
Material: Custom Aluminum Extrusion (Supplied by FSI)

Finish: Self

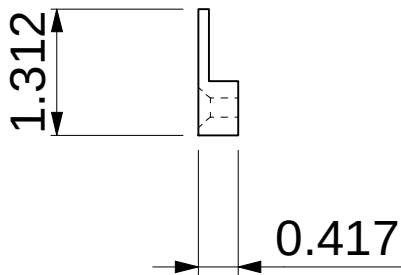
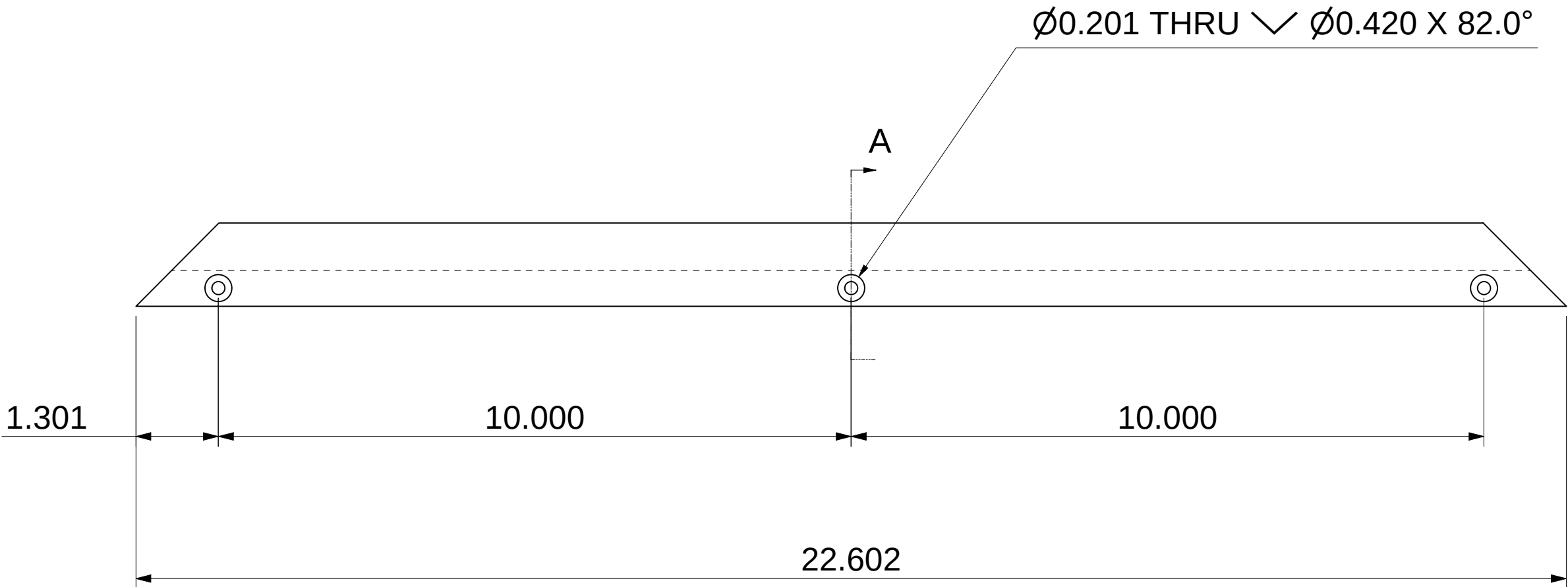
Tolerances unless stated otherwise to be at ± 1/32"

0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
future systems inc			
All dimensions in inches, Do not manually alter CAD drawings, Do not scale			
Client			
Property of STA			
Title			
Map Frame Vertical - 2			
Scale		Date	
NTS		2021-09-20	
Drawn		Page	
RN		1 OF 1	
Drawing No.			Rev
FSI-08-12-301-03			0

IF IN DOUBT ASK



SECTION A-A (2 : 1)

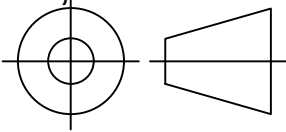


Notes: Remove all sharp edges and burrs unless otherwise stated

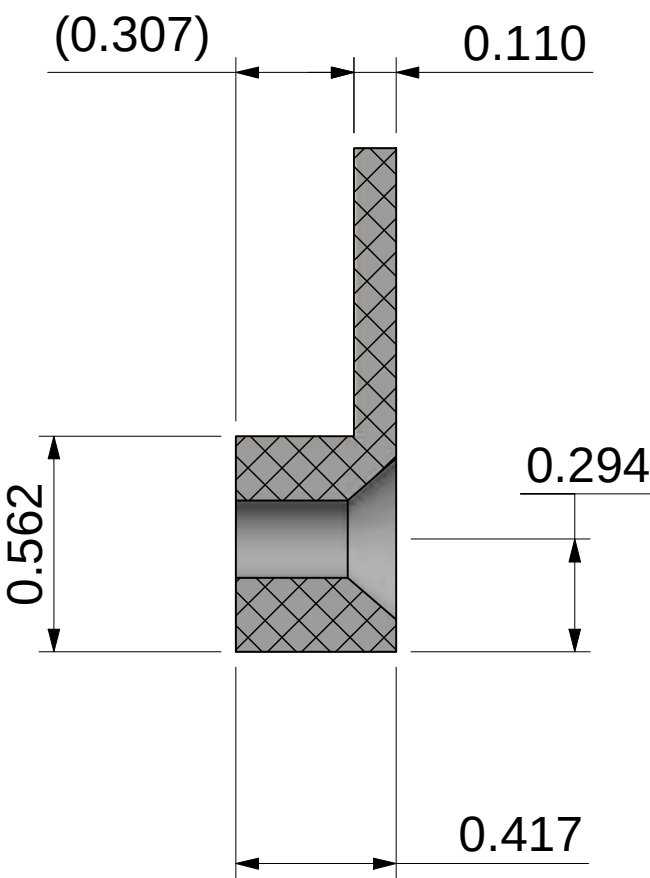
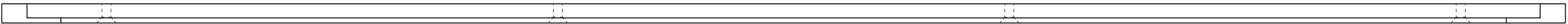
Material: .250" 6061-T6 Aluminum

Finish: Powder Coat - SD RAL 9005 JET BLACK 25
90 - 99% Gloss

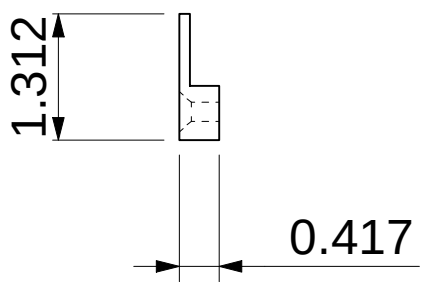
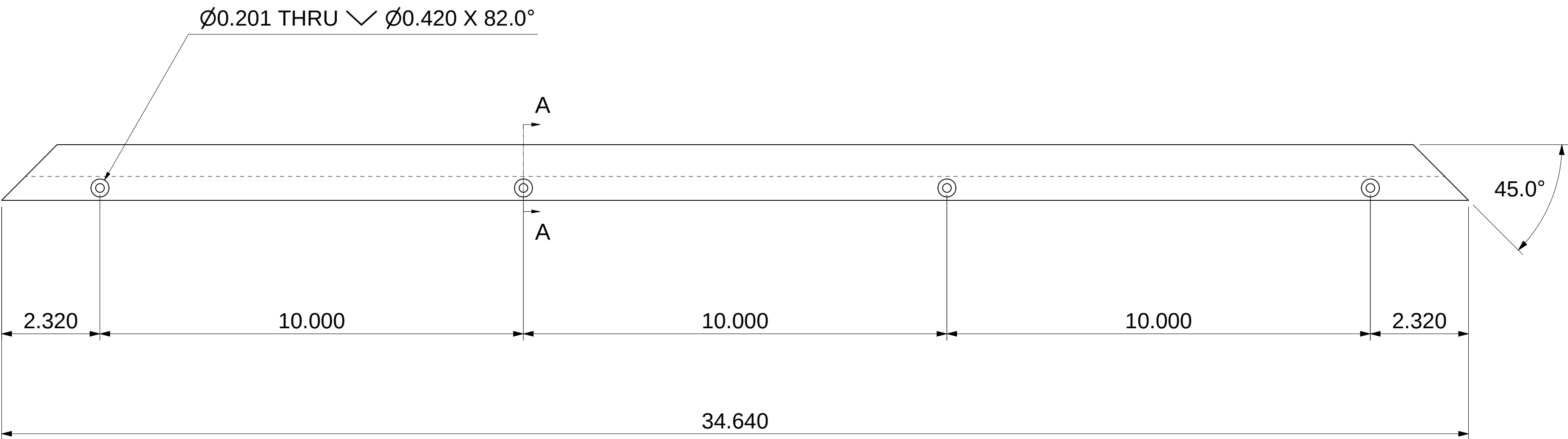
Tolerances unless stated otherwise
to be at $\pm 1/32$ "

1	CC	2021-12-30	CHANGED THICKNESS OF RETAINER TO FIT THICKER GLASS
0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
			
All dimensions in inches. Do not manually alter CAD drawings, Do not scale			
Client			
Property of STA			
Title			
Horizontal Retainer			
Scale		Date	
NTS		2021-09-20	
Drawn		Page	
RN		1 OF 1	
Drawing No.			Rev
FSI-08-12-301-04			1

IF IN DOUBT ASK



SECTION A-A (2 : 1)



Notes: Remove all sharp edges and burrs unless otherwise stated

Material: .250" 6061-T6 Aluminum

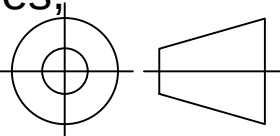
Finish: Powder Coat - SD RAL 9005 JET BLACK 25
90 - 99% Gloss

Tolerances unless stated otherwise
to be at $\pm 1/32$ "

1	CC	2021-12-30	CHANGED THICKNESS OF MATERIAL FOR GLASS FITMENT
0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS



All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale



Client

Property of STA

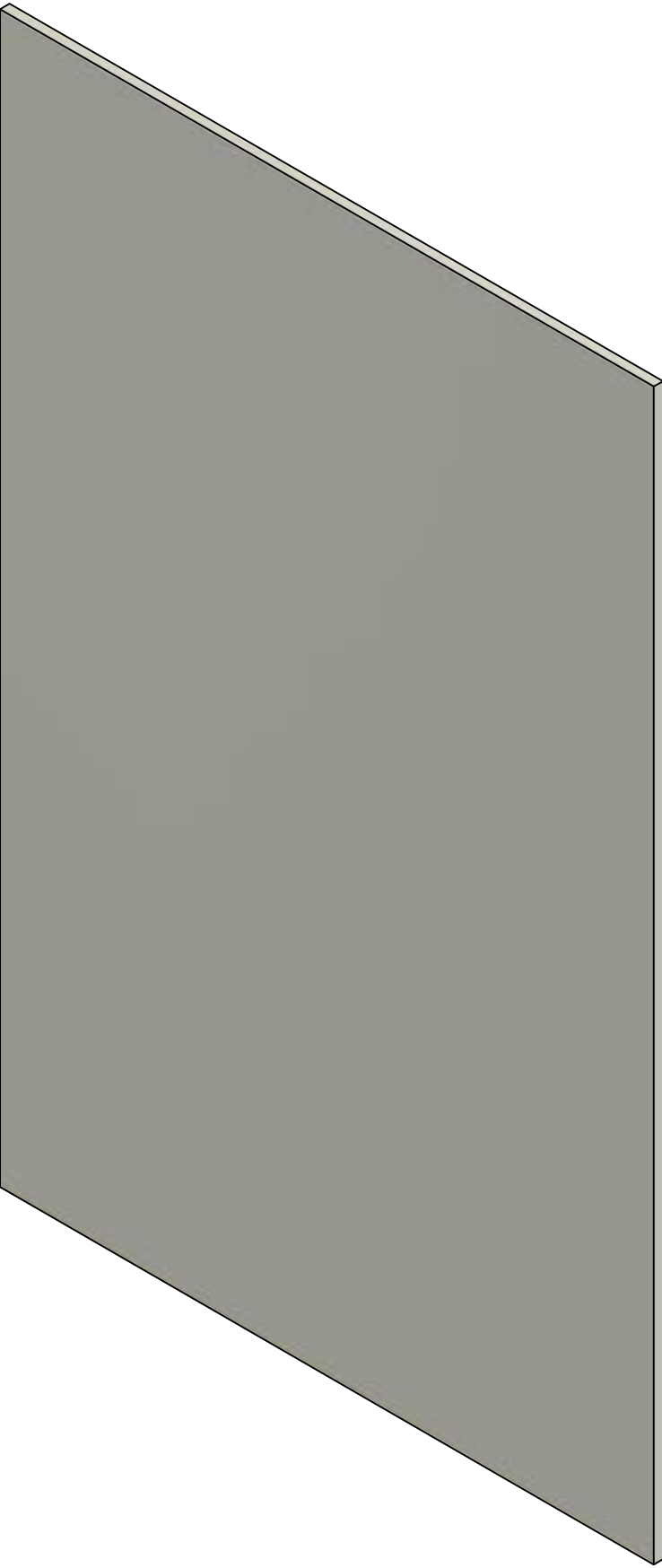
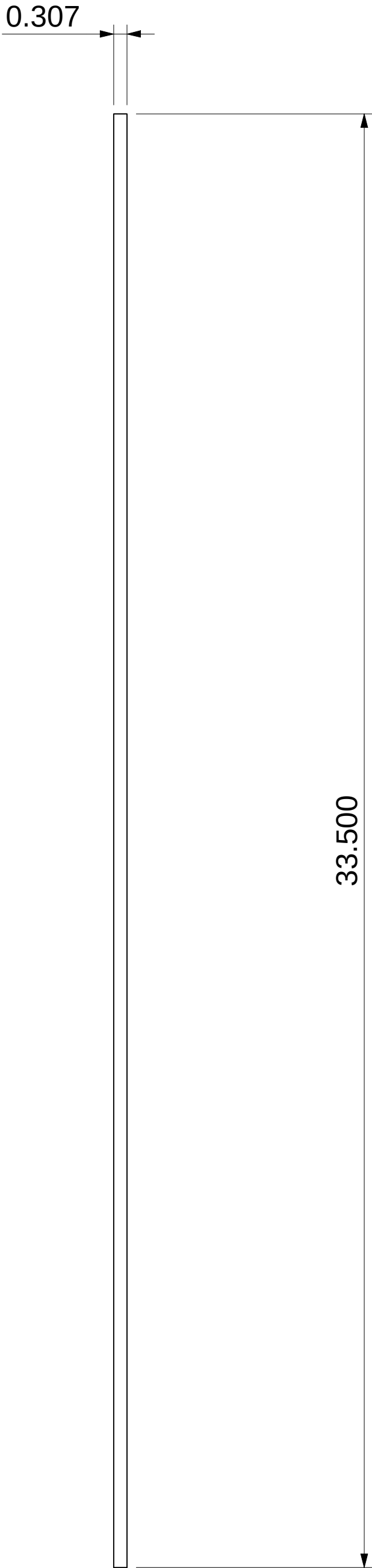
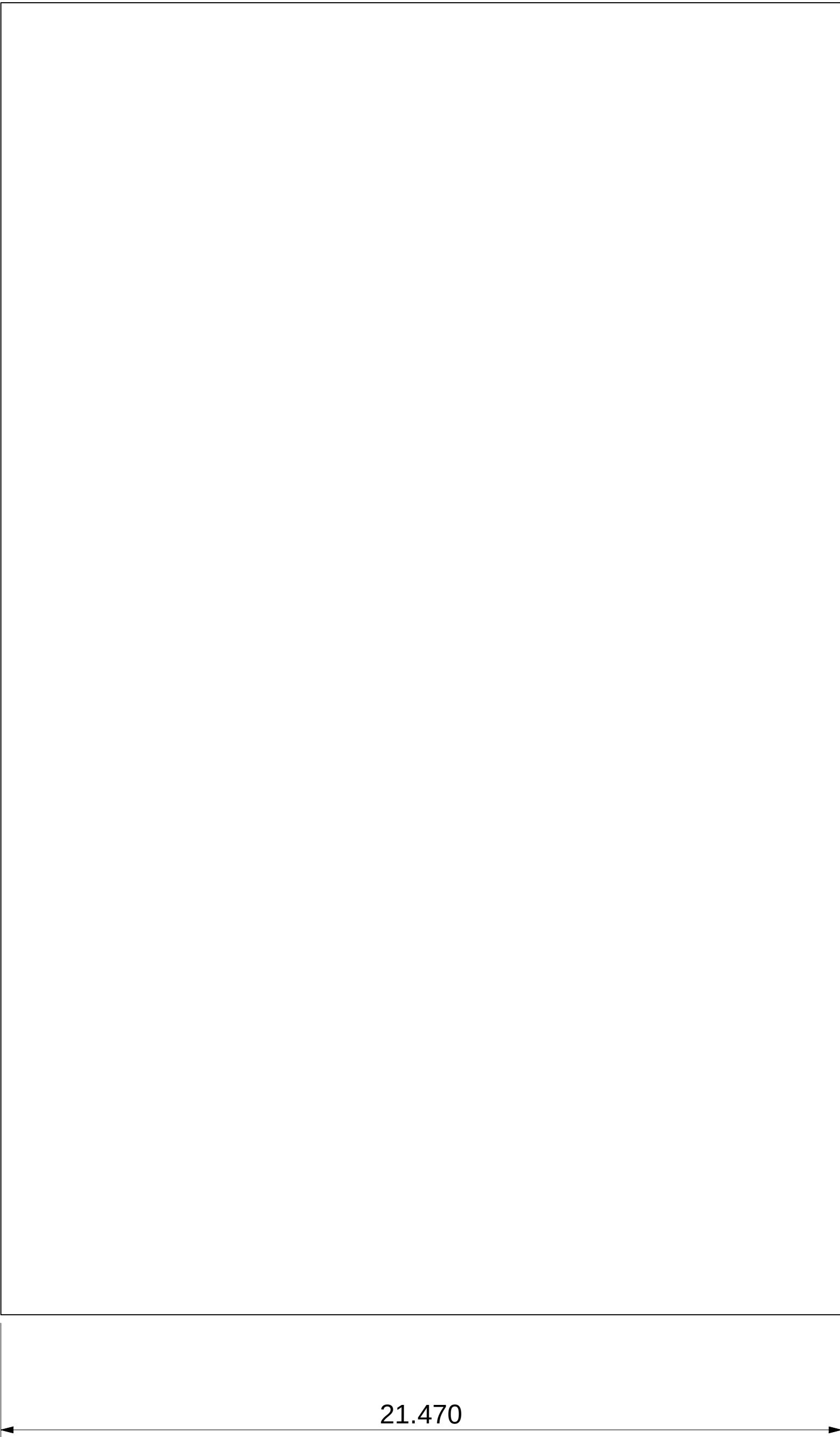
Title

Vertical Retainer

Scale	NTS	Date	2021-09-20
Drawn	RN	Page	1 OF 1

Drawing No.	Rev
FSI-08-12-301-05	1

IF IN DOUBT ASK



Notes: Polished edges

Material: Tempered Laminated Glass (Supplied by FSI)
7.8mm overall thickness (3mm Tempered+ 060 PVB + 3mm Tempered)

Finish: Clear

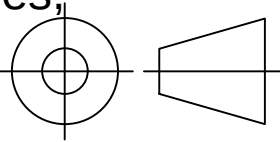
Weight: 13 lbs.

Tolerances unless stated otherwise
to be at $\pm 1/32$ "

2	CC	2021-12-30	CHANGED GLASS THICKNESS TO REFLECT LAMINATED GLASS
1	CC	2021-12-20	CHANGED NOTE
0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS



All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale



Client

Property of STA

Title

HPT Marker Map Frame Glass

Scale
NTS

Date
2021-09-21

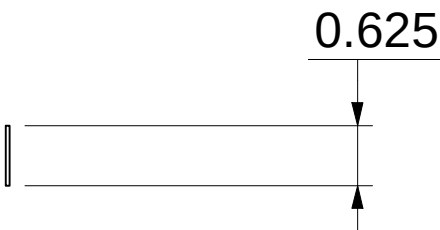
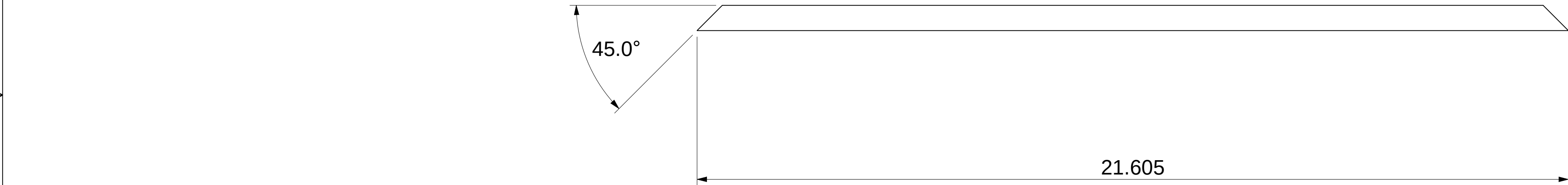
Drawn
RN

Page
1 OF 1

Drawing No.
GLASS map

Rev
2

IF IN DOUBT ASK

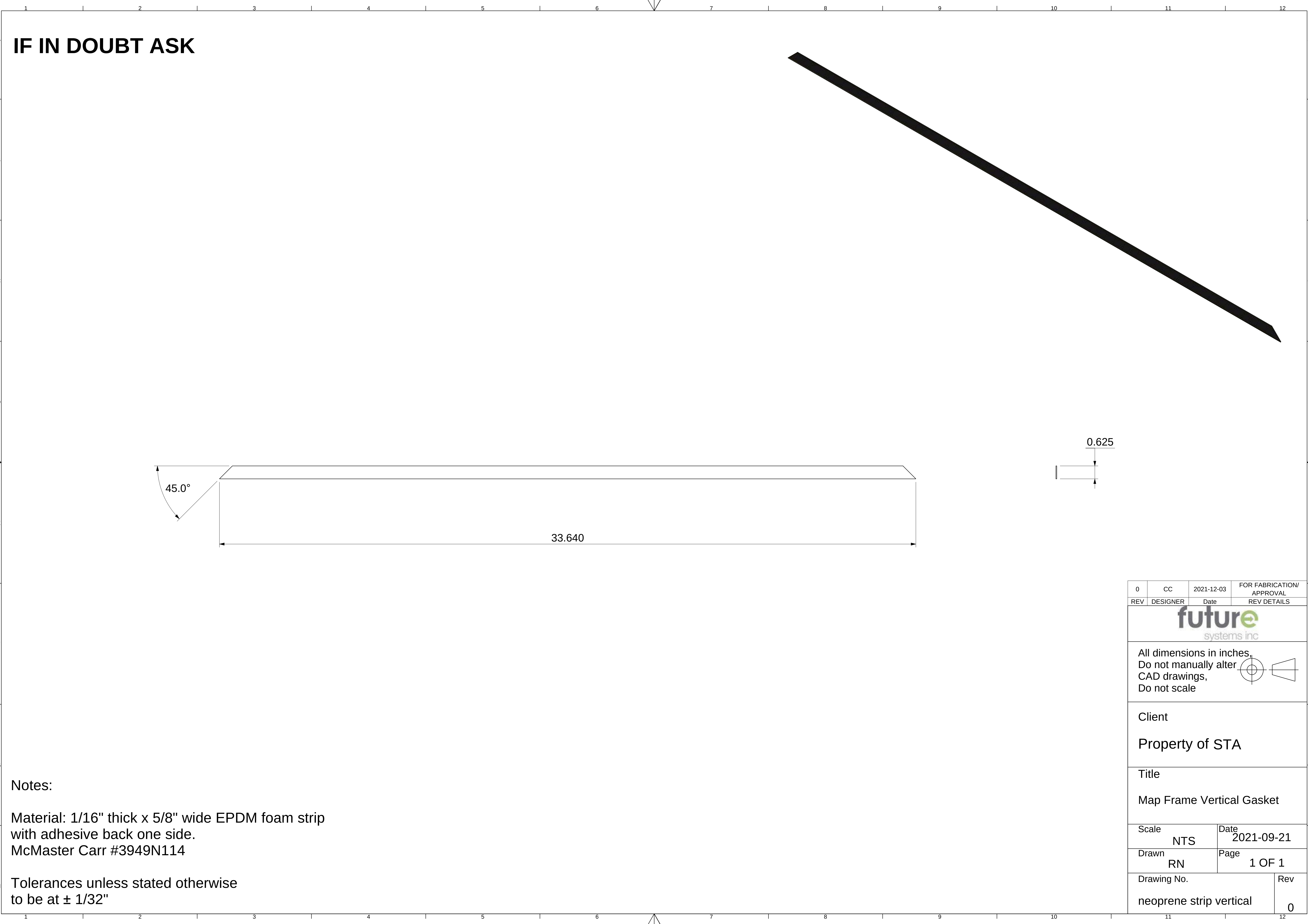


Notes:

Material: 1/16" thick x 5/8" wide EPDM foam strip with adhesive back one side.
McMaster Carr #3949N114

Tolerances unless stated otherwise to be at $\pm 1/32$ "

0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
future systems inc			
All dimensions in inches. Do not manually alter CAD drawings, Do not scale			
Client			
Property of STA			
Title			
Map Frame Horizontal Gasket			
Scale		Date	
NTS		2021-09-21	
Drawn		Page	
RN		1 OF 1	
Drawing No.			Rev
neoprene strip horizontal			0



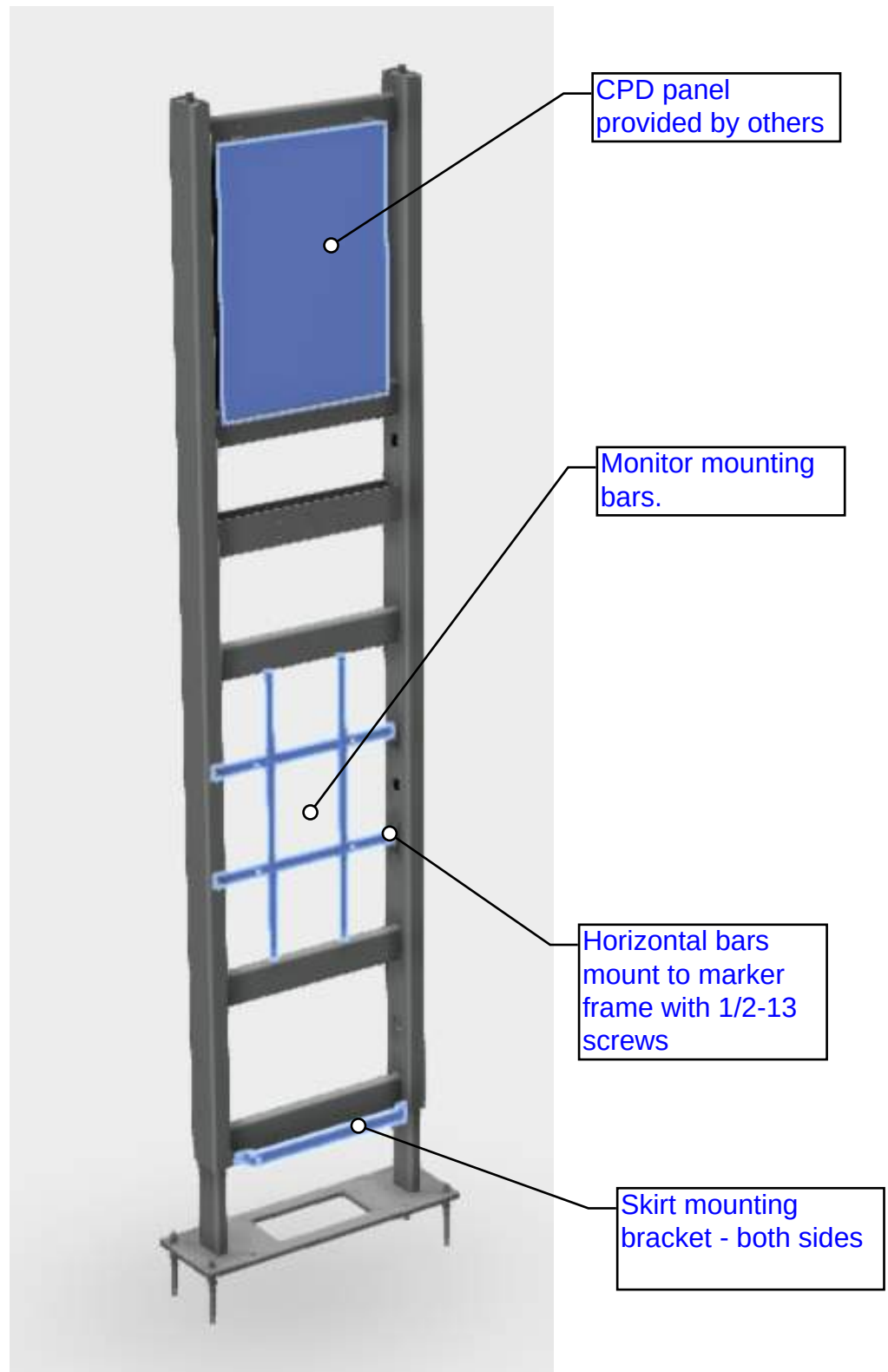


**SPOKANE TRANSIT
1230 W. BOONE AVENUE
SPOKANE, WA 99201**

**Appendix 02 – HPT Marker Assembly Instructions
SPRAGUE LINE HPT - PHASE 2**

PROJECT #2025-11062





1. Install Skirt mounting brackets using 1/4-20 SS screws
2. Install Monitor mounting bars using 1/2-13 zinc plated hex head screws
3. Install CPD Lighting panels - provided by others



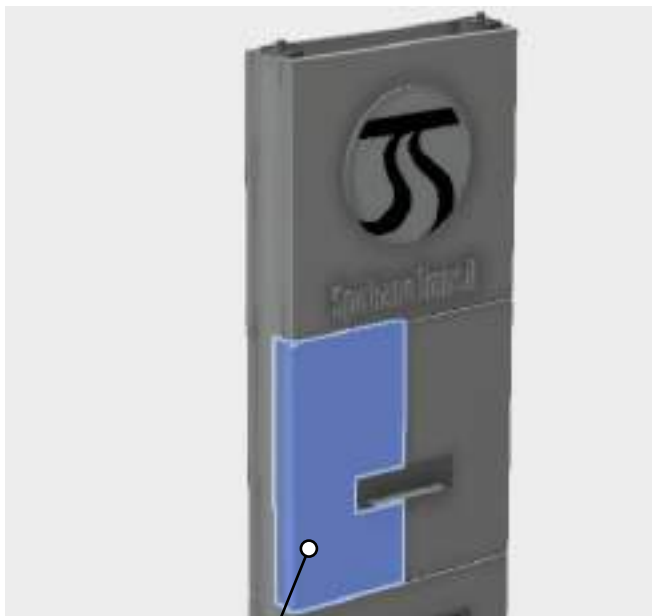
1. Install plastic logos and lettering into cladding panels after they have been vinyl wrapped and before installing them on the marker frame.
2. Seal with clear silicone the backside of logo and lettering on all edges.



1. Map case door will arrive fully assemble less the hinges that affix it to the cladding panel it rests in.
2. After cladding panel has been vinyl wrapped install map case door assembly this may be better suited to do in a shop.
3. Multiple hands will be needed to affix door assembly to cladding panel.
4. The large hinges will need to be positioned loose and slipped together prior to be final mounted to cladding panel and door frame.
5. Look at print set for further assembly instructions.



1. Starting at the bottom install both marker skirt panels with 3 flat head 1/4-20 security screws.
2. If gasket is required to block internal light for escaping at seems apply the supplied gasket on all top and bottom edges of cladding.
3. with multiple people lift and place both sides of bottom cladding.
4. Fit outer two end plastic panels and secure all with pig nose fasteners
5. Use a 1/4-20 threaded rod piece to temporarily hold panels in place if needed the plastic end panels could slide over these rods and they could be removed after a few fasteners are holding everything in place



2 piece
construction



Cladding gets
screwed together 2
places

1. Continue cladding installation up the marker.
2. NOTE: The cladding that wraps around the marker to canopy connection has changed from prototype. it is now a two piece design this will have to be the next step to put together after the lower panels have been installed. These two panels will have to get fastened together inside the marker prior to putting up any other higher cladding panels.
3. Place all upper panels and again secure in place with pig nose screws through plastic end panels. Leave very two top holes empty for mounting the top cap.



1. Install vent caps in both ends of top cap
2. Lift and slide down top cap with mounting strips behind plastic end panels
3. Secure in place with pig nose hardware.



1. Hang sign, mounting holes will be in canopy sections for this connection.





**SPOKANE TRANSIT
1230 W. BOONE AVENUE
SPOKANE, WA 99201**

**Appendix 03 – Pedestrian Light Pole Fabrication Drawings
SPRAGUE LINE HPT - PHASE 2**

PROJECT #2025-11062



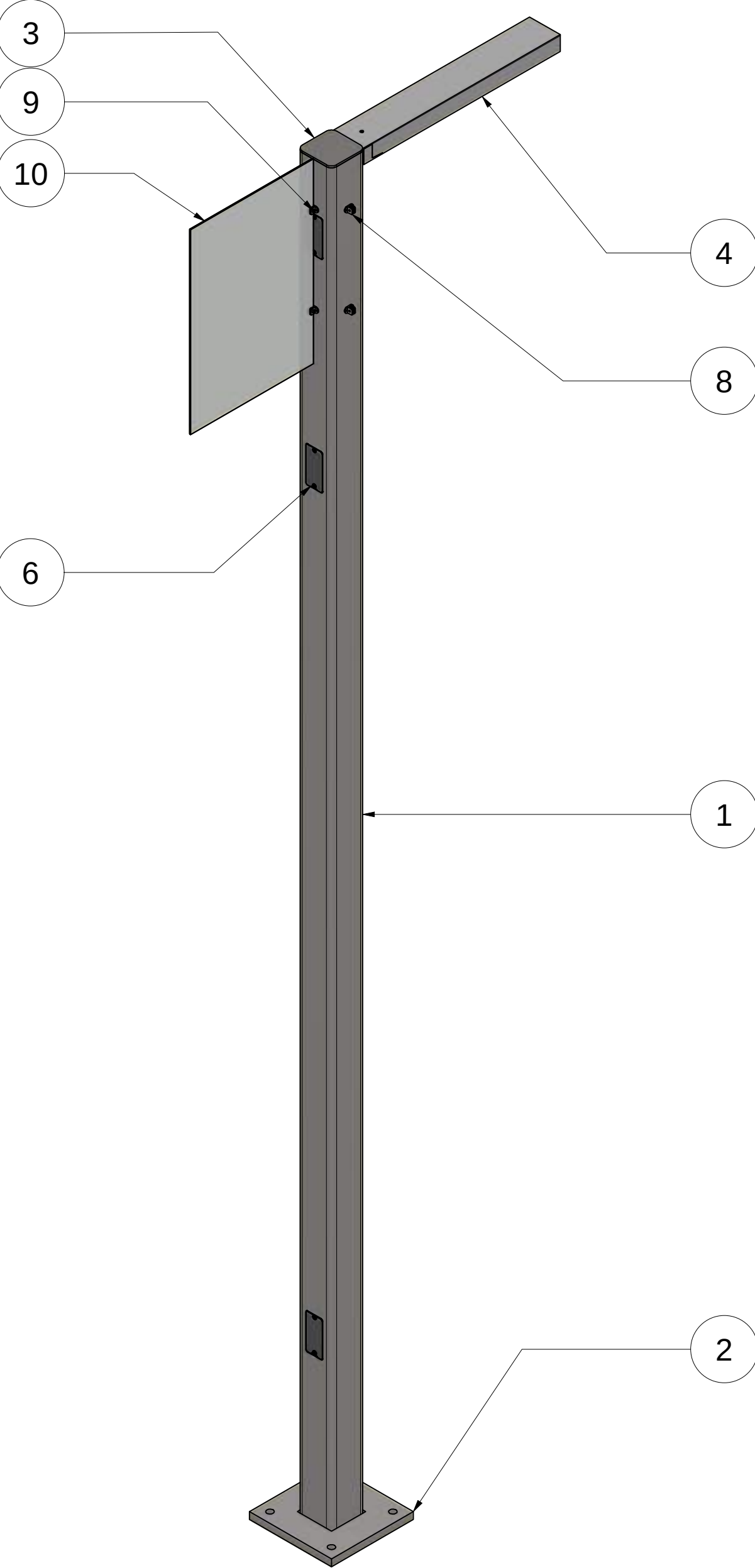
IF IN DOUBT ASK

SELUX LED LIGHT FIXTURE/
MOUNTING BRACKET TO BE
SUPPLIED BY OTHERS.

(- FSI IS ONLY PROVIDING
DRILLED AND TAPPED HOLES FOR
THE FIXTURE BRACKET BASED OFF
MANUFACTURERS INSTALL DRAWINGS.

- MODEL IS FOR REPRESENTATION ONLY)

ART BANNERS/ WAYFINDING SIGNS
TO BE SUPPLIED BY OTHERS. (MODEL
SHOWN IS FOR REPRESENTATION
ONLY)



0	CC	2021-12-03	FOR FABRICATION/ APPROVAL
REV	DESIGNER	Date	REV DETAILS
All dimensions in inches, Do not manually alter CAD drawings, Do not scale			
Client Spokane Transit			
Property of STA			
Title PEDESTRIAN LIGHT 1 SINGLE LED DETAILS			
Scale NTS		Date 2021-03-14	
Drawn CC		Page 1 OF 7	
Drawing No. FSI-08-00-008			Rev 0

PARTS LIST			
ITEM	QTY	DRAWING NUMBER	DESCRIPTION
1	1.000 in	AISC HSS - 5 x 5 x 3/8	SEE SHEET 3 AND 4
2	2	Light Post Base Plate	SEE SHEET 5
3	2	Light Post Top Cap	SEE SHEET 6
4	2	Arca Light Representation Model (Selux)	Supplied By Others
5	3	Handhole Cover Mount	SEE SHEET 7
6	6	Handhole Cover Plate	SEE SHEET 8
7	12	1-4 UNC x 1 TAMPER-RESISTANT TORX FLAT HEAD SCREWS	91870A752
8	14	Removable Banner Clamp	REF DWG # FSI-08-30-001
9	12	ANSI B18.3 - 10 - 24 x 3/4 (Item 5 - Removable Banner Clamp)	Hexagon Socket Button Head Cap Screw
10	2	Banner	Supplied By Others
11	1	WELD STUDS	93865A235

Notes: Remove all sharp edges and
burrs unless otherwise stated.

Material: HSS Steel, A36 Steel Plate

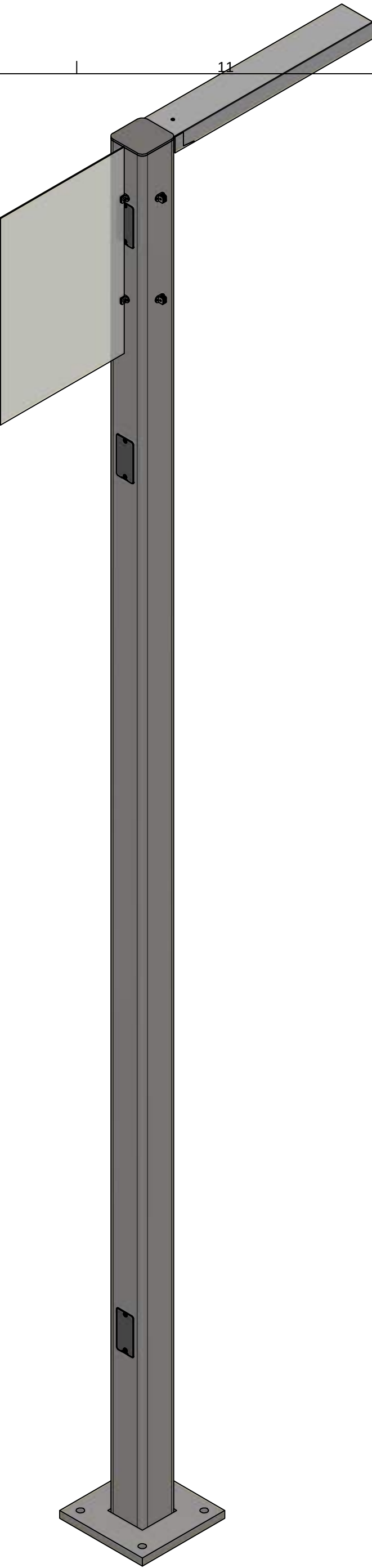
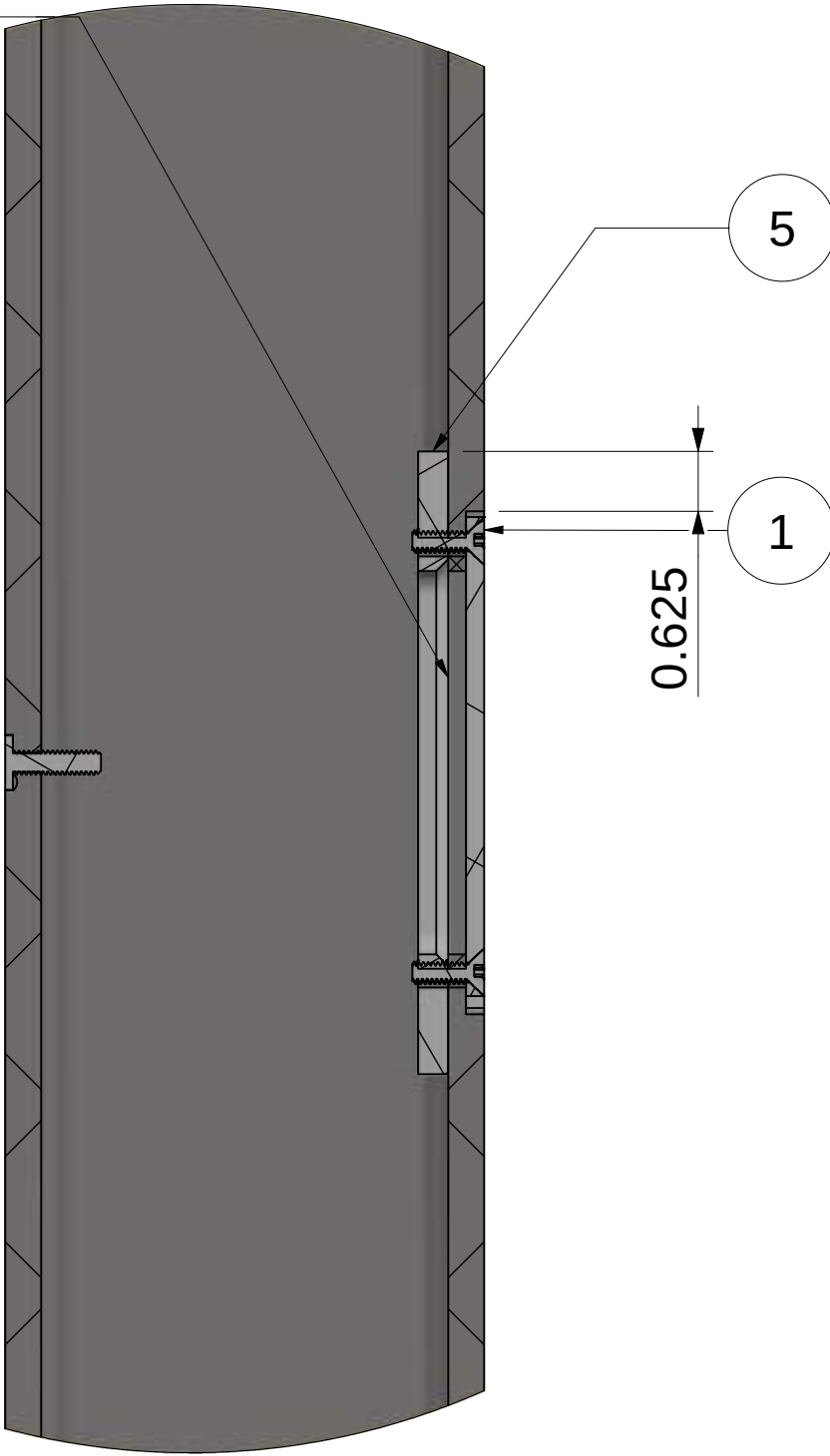
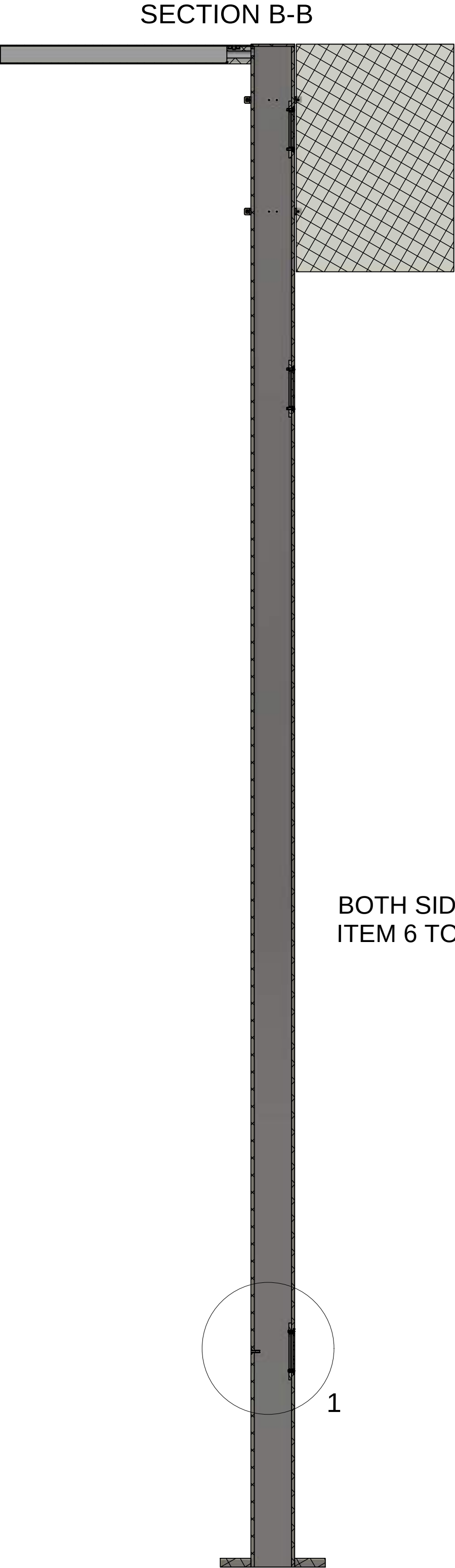
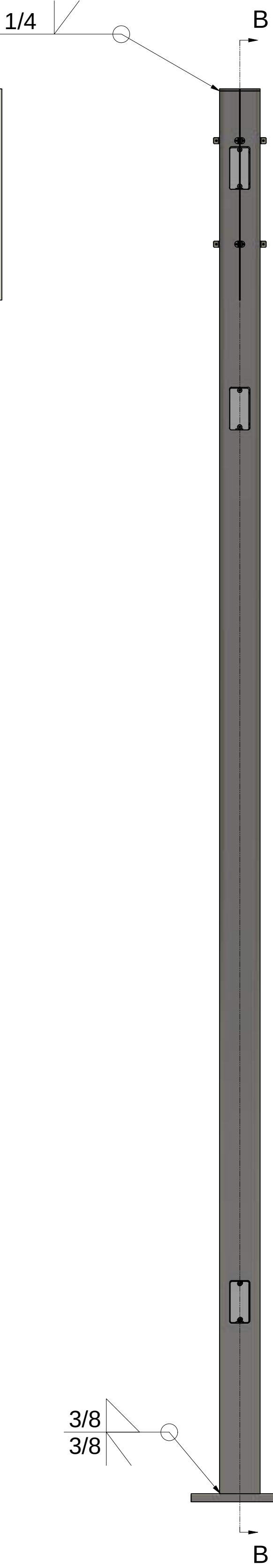
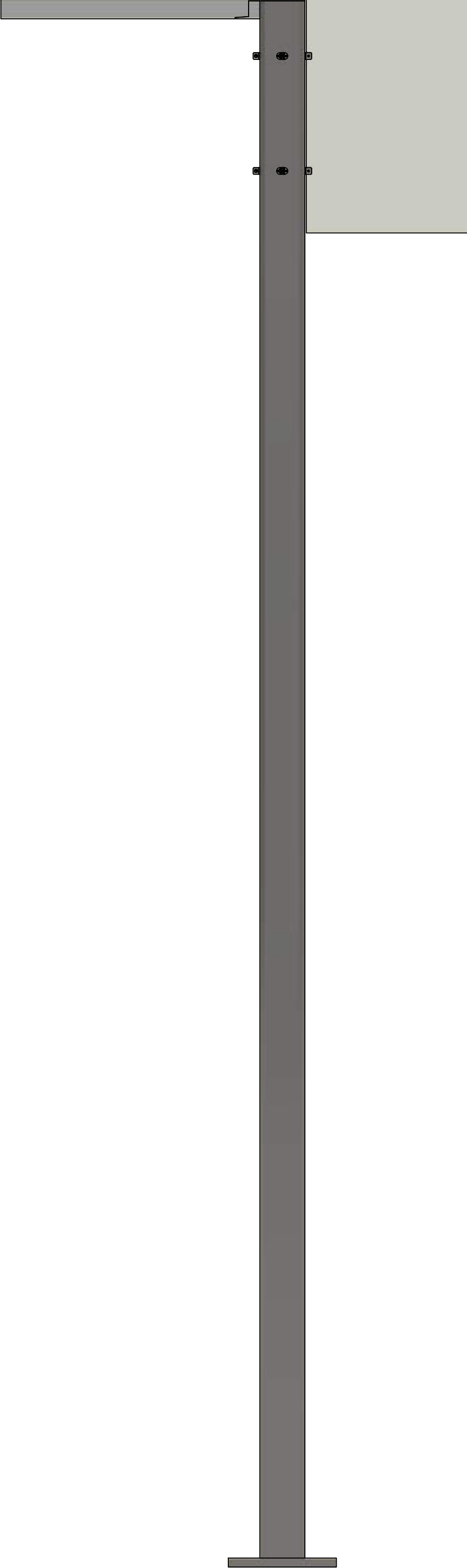
Finish: Assemblies to be galvanized
and to be painted to client specifications

Weight: N/A

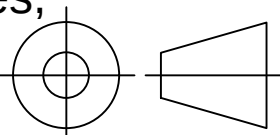
Assemblies Required: 4

Tolerances unless stated otherwise
to be at $\pm 1/32"$

IF IN DOUBT ASK



FINAL ASSEMBLY PROVIDED BY FUTURE
SYSTEM INC.

	
All dimensions in inches, Do not manually alter CAD drawings, Do not scale	
	
Client	Spokane Transit
Property of STA	
Title	
PEDESTRIAN LIGHT 1 SINGLE LED DETAILS	
Scale	NTS
Date	2021-03-14
Drawn	CC
Page	2 OF 7
Drawing No.	
FSI-08-00-008	
Rev	
0	

IF IN DOUBT ASK

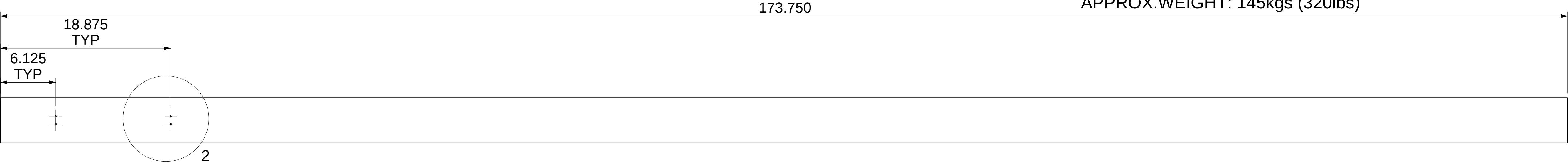
RIGHT SIDE VIEW

ITEM: 1 - AISC HSS - 5 x 5 x 3/8 - 173.75

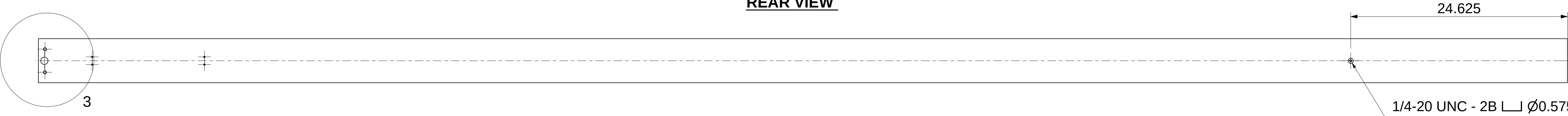
QTY PER ASSEMBLY: 1

MATERIAL: A500C HSS TUBE

APPROX.WEIGHT: 145kgs (320lbs)



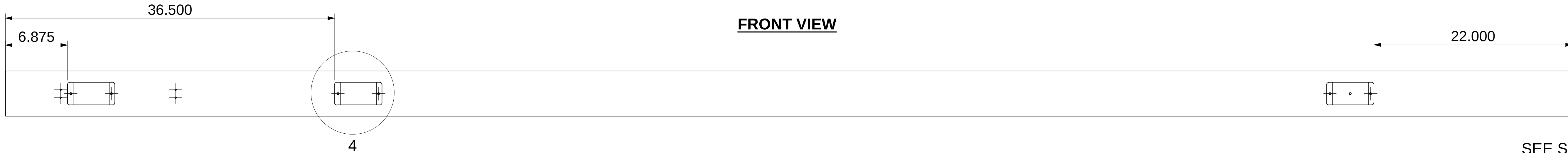
REAR VIEW



LEFT SIDE VIEW

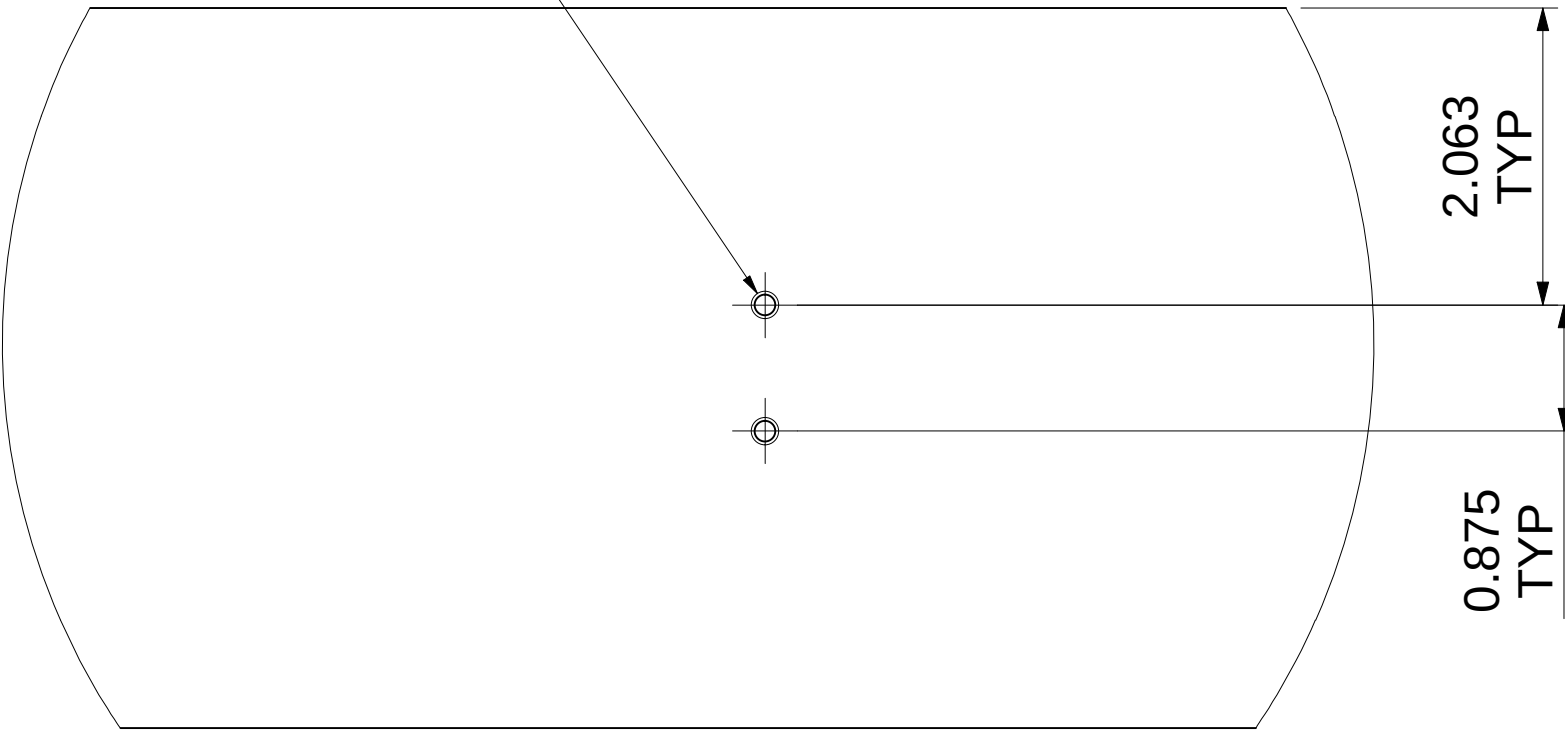


FRONT VIEW

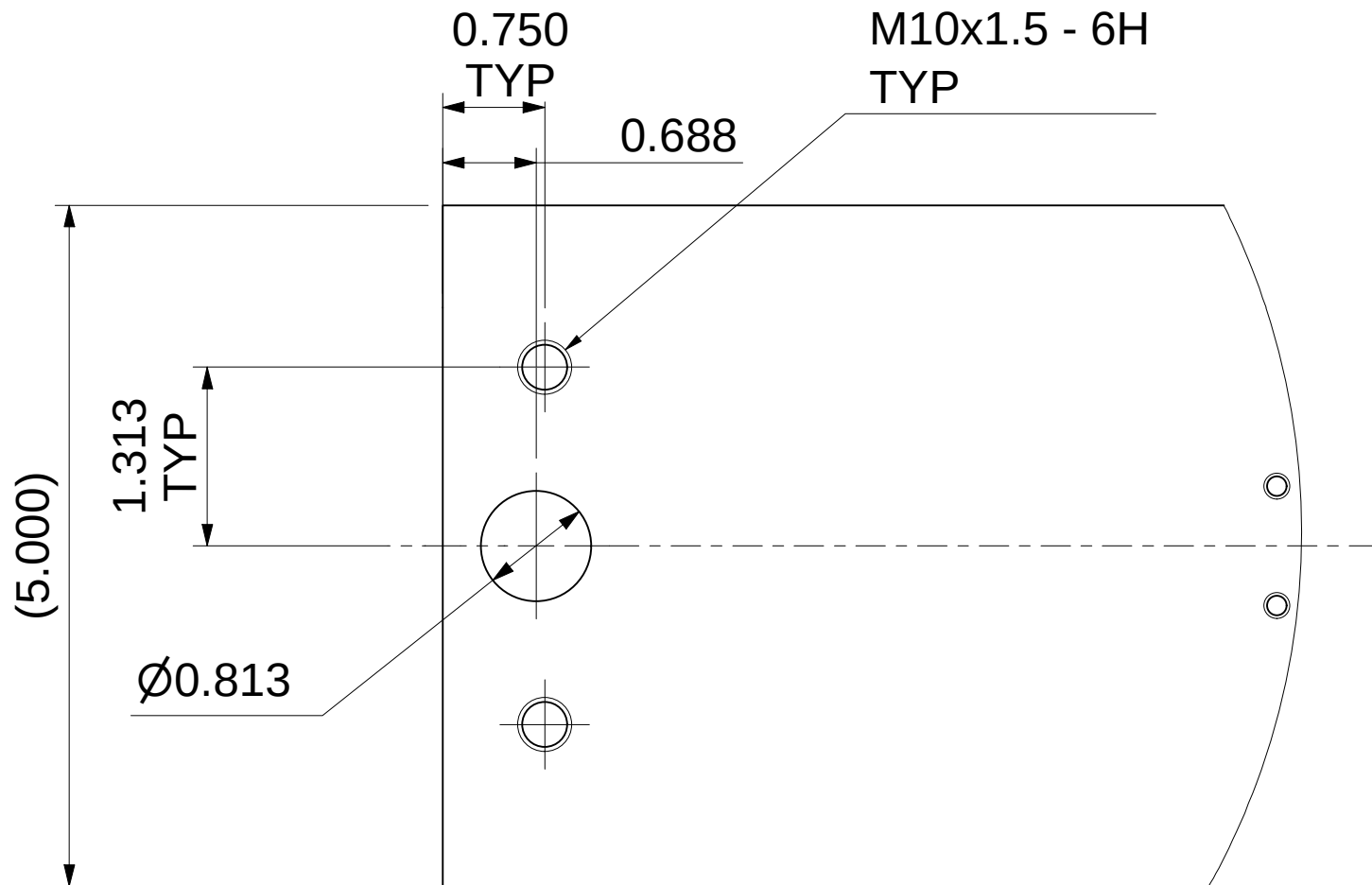


SEE SHEET 4 FOR
VIEW C

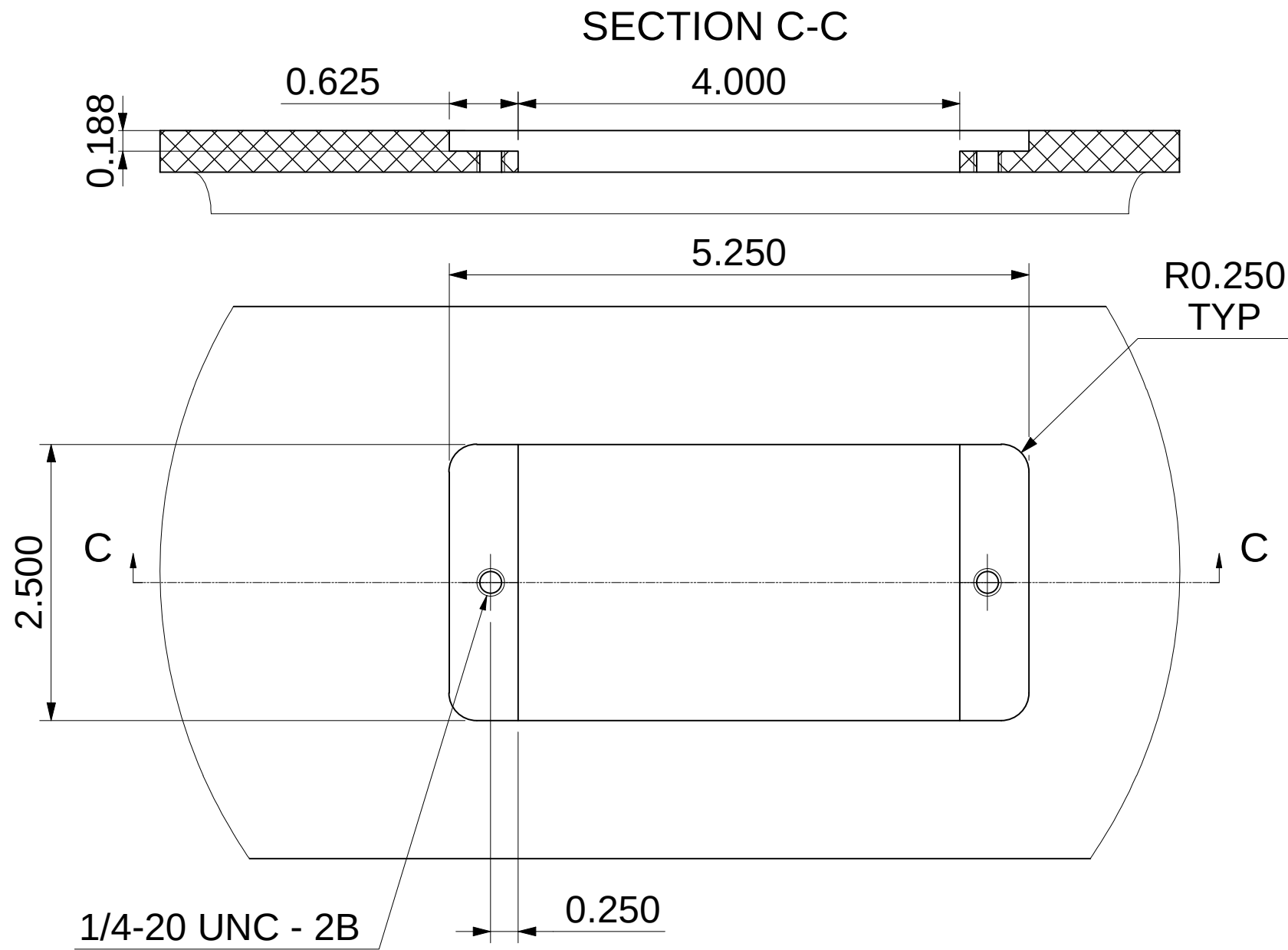
10-24 UNC - 2B
TYP ALL
BANNER CLAMPS



DETAIL 2
TYPICAL BANNER
CLAMP HOLE DETAIL



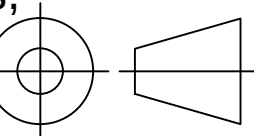
DETAIL 3
LIGHT BRACKET
MOUNTING DETAILS



DETAIL 4
TYPICAL HANDHOLE
DETAIL

future
systems inc

All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale



Client **Spokane Transit**

Property of STA

Title
PEDESTRIAN LIGHT 1
SINGLE LED DETAILS

Scale NTS Date 2021-03-14

Drawn CC Page 3 OF 7

Drawing No. FSI-08-00-008 Rev 0

1 2 3 4 5 6 7 8 9 10 11 12

IF IN DOUBT ASK

B

C

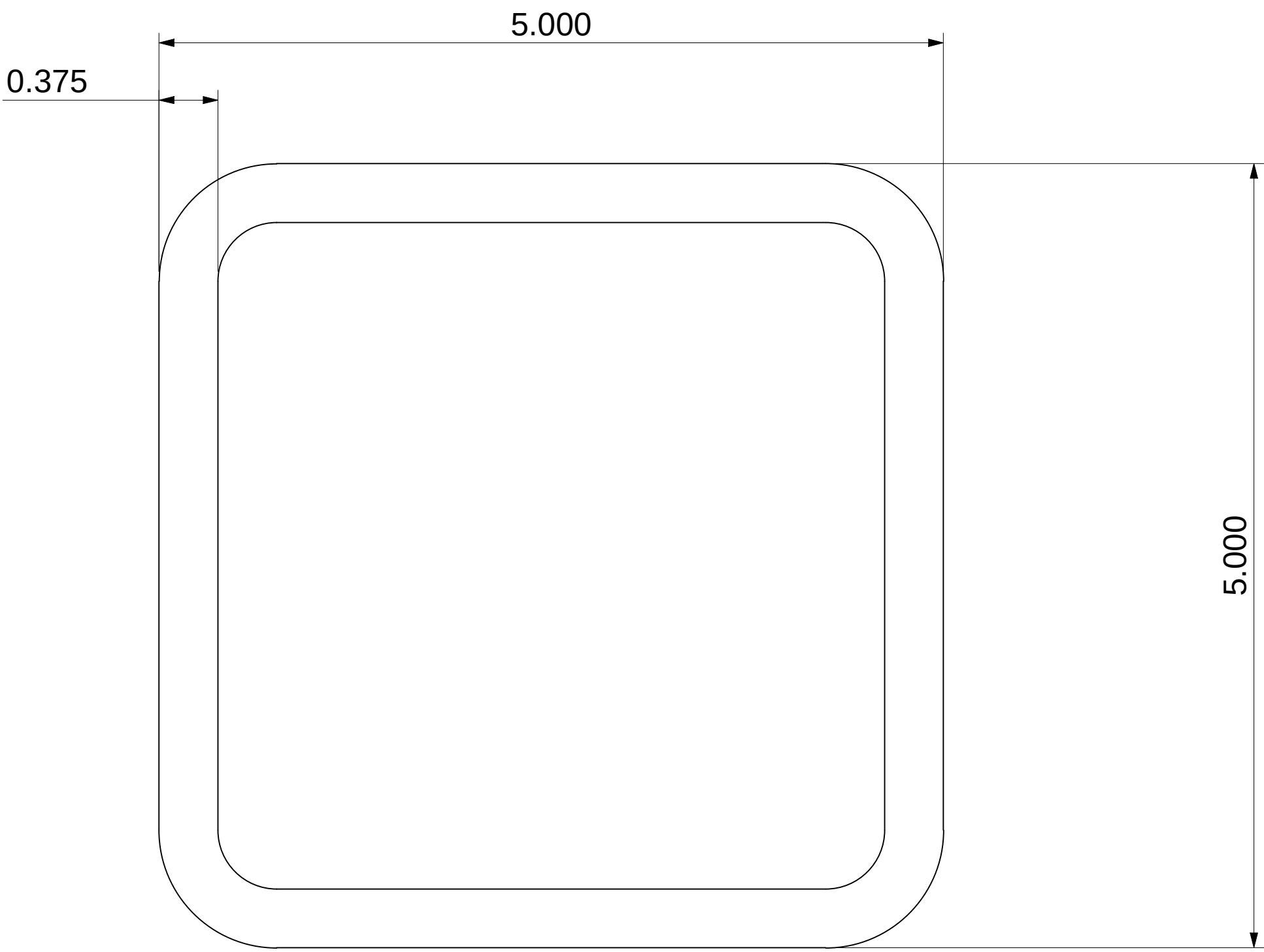
D

E

F

G

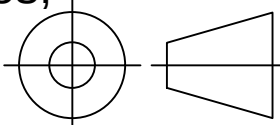
H



VIEW C



All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale



Client **Spokane Transit**

Property of STA

Title

PEDESTRIAN LIGHT 1
SINGLE LED DETAILS

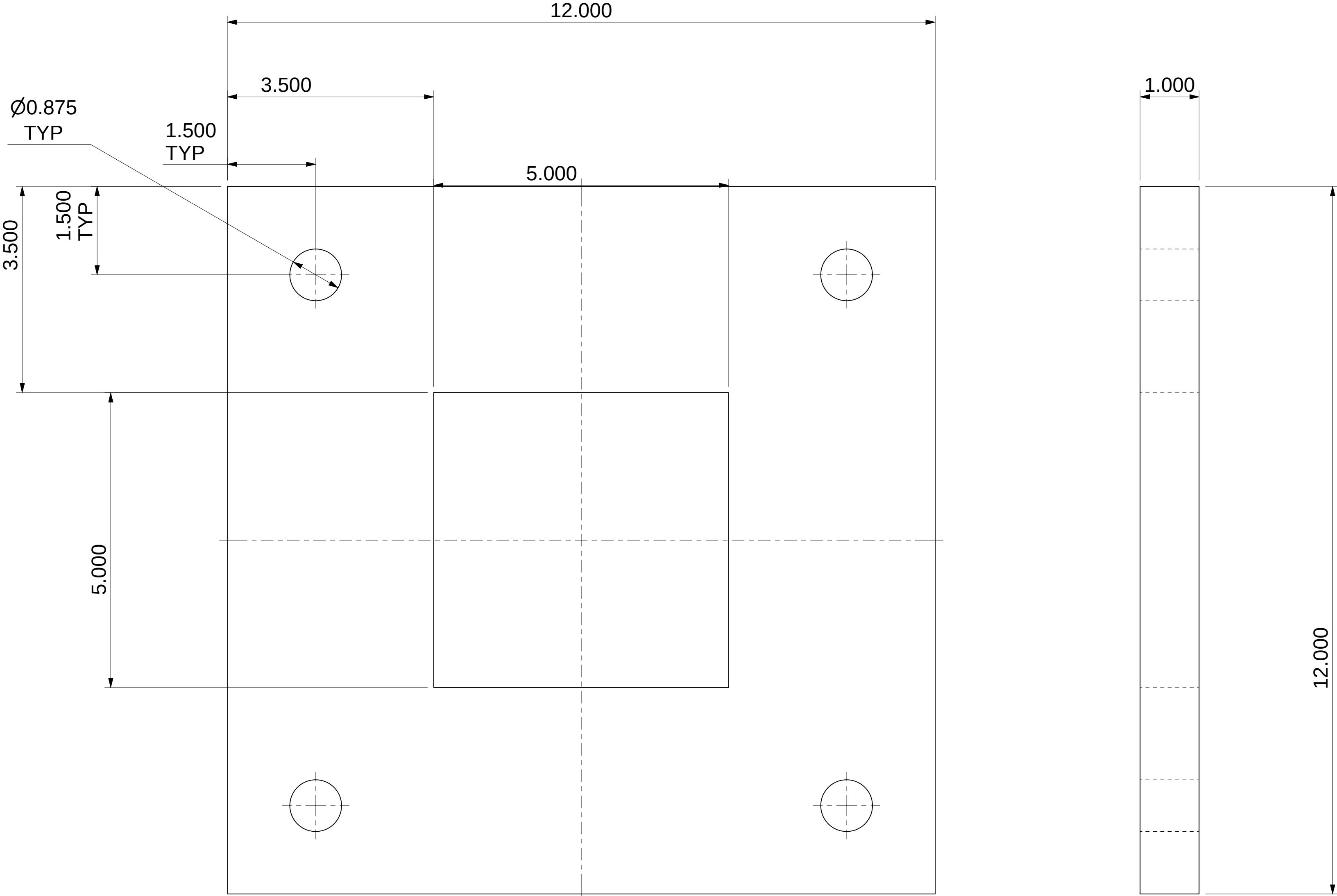
Scale	NTS	Date	2021-03-14
Drawn	CC	Page	4 OF 7

Drawing No.	Rev
FSI-08-00-008	0

1 2 3 4 5 6 7 8 9 10 11 12

IF IN DOUBT ASK

ITEM: 2 - BASE PLATE 12 x 12 x 1"



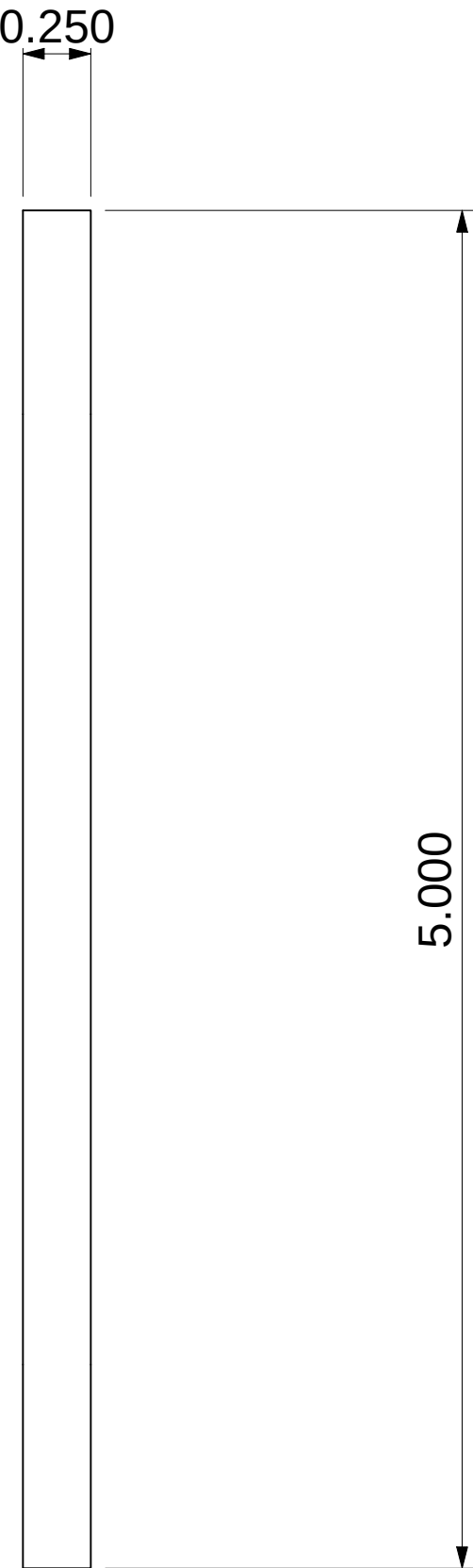
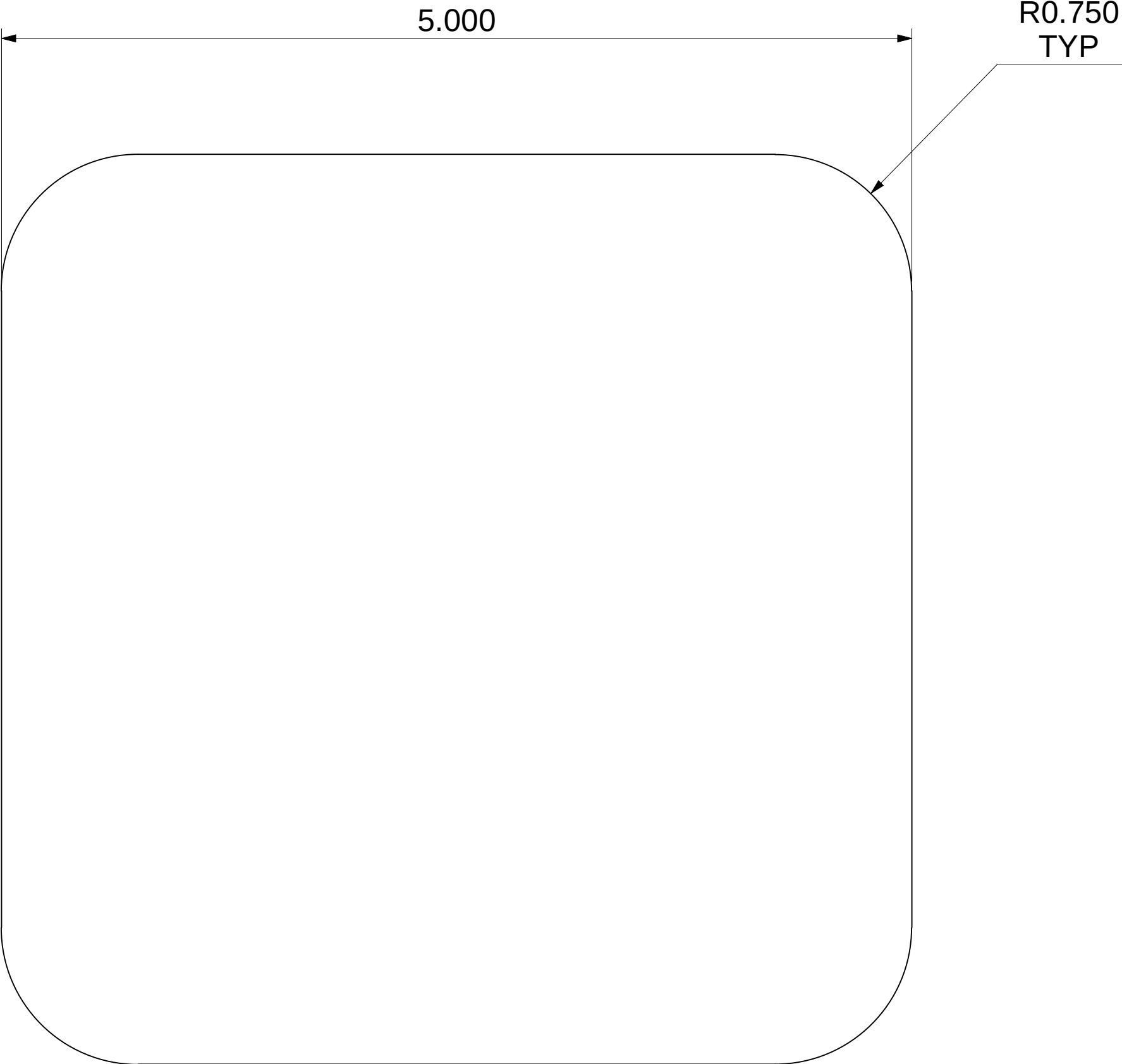
QTY PER ASSEMBLY: 1
MATERIAL: A36 STEEL PLATE
APPROX.WEIGHT: 15kgs (33lbs)

future systems inc	
All dimensions in inches, Do not manually alter CAD drawings, Do not scale	
Client	Spokane Transit
Property of STA	
Title PEDESTRIAN LIGHT 1 SINGLE LED DETAILS	
Scale NTS	Date 2021-03-14
Drawn CC	Page 5 OF 7
Drawing No. FSI-08-00-008	Rev 0

1 2 3 4 5 6 7 8 9 10 11 12

IF IN DOUBT ASK

ITEM: 3 - LIGHT POST TOP CAP



QTY PER ASSEMBLY: 1
MATERIAL: A36 STEEL PLATE

All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale

Client

Spokane Transit

Property of STA

Title

PEDESTRIAN LIGHT 1
SINGLE LED DETAILS

Scale

NTS

Date

2021-03-14

Drawn

CC

Page

6 OF 7

Drawing No.

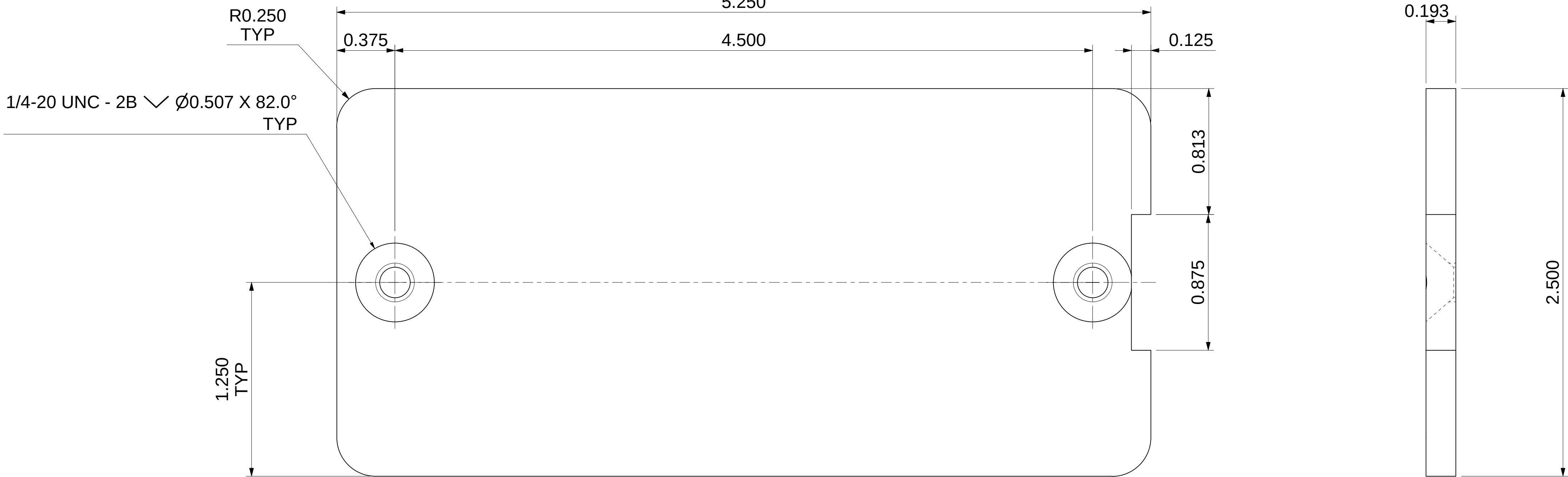
FSI-08-00-008

Rev

0

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12

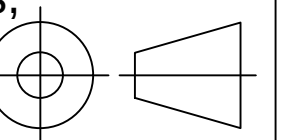
ITEM: 7 - HAND HOLE COVER PLATE



QTY PER ASSEMBLY: 3
MATERIAL: A36 STEEL PLATE



All dimensions in inches,
Do not manually alter
CAD drawings,
Do not scale



Client **Spokane Transit**
Property of STA

Title	PEDESTRIAN LIGHT 1 SINGLE LED DETAILS

Scale	Date
NTS	2021-03-14

Drawn CC	Page 7 OF 7

Drawing No.	Rev
FSI-08-00-008	0



**SPOKANE TRANSIT
1230 W. BOONE AVENUE
SPOKANE, WA 99201**

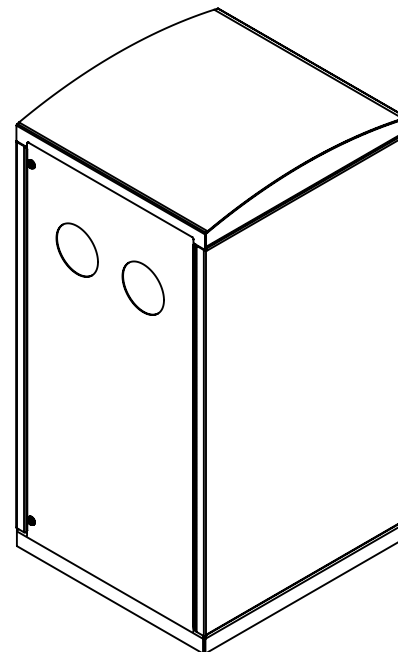
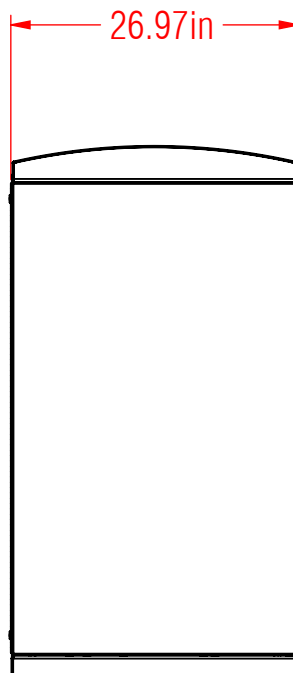
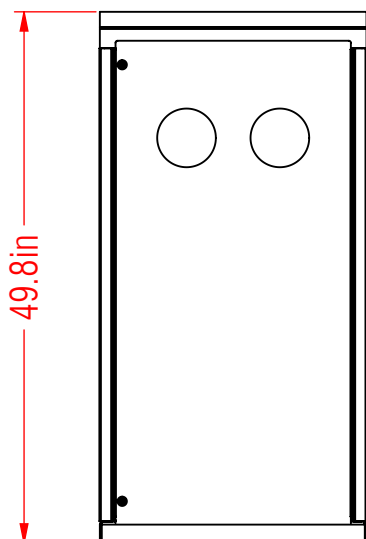
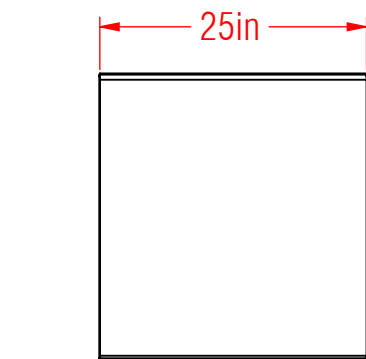
**Appendix 04 – Waste Receptacle Drawings
SPRAGUE LINE HPT - PHASE 2**

PROJECT #2025-11062



PRODUCT DESCRIPTION: RECYCLE HOPPER (LOCK MOD)	ITEM NUMBER: * UCS-2422L	QUOTE DATE: 01/13/22	SHEET 1 OF 1
DIMENSIONS: 25" x 26.97" x 49.8"	ORDER QUANTITY:	PRICE (BASED ON ORDER QTY) ** \$1,195.00	

*ORDER VIA ITEM NUMBER. DELIVERY and **INSTALLATION CHARGES MAY APPLY

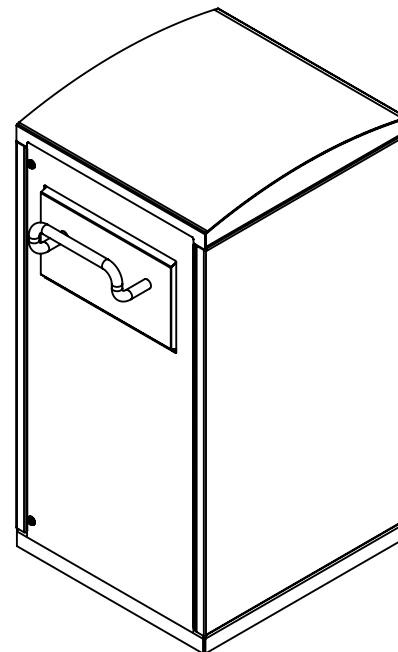
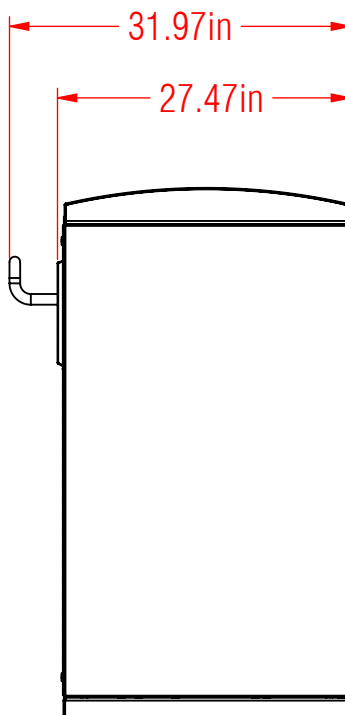
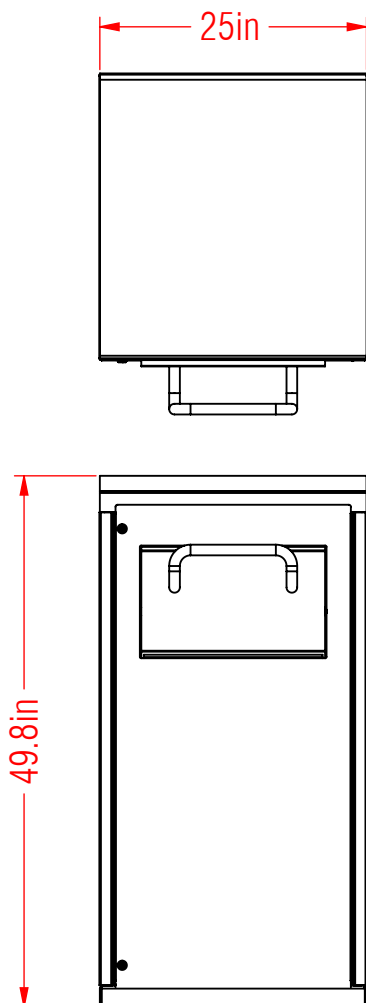


- 1 YEAR WARRANTY
- HEAVY STEEL CONSTRUCTION
- POWDER COAT FINISH
- LOCKING DOOR
- LEVELING FEET

DRAWN BY: C, Self	REVISED BY:	REVISED DATE:	APPROVED BY:	CUSTOMER APPROVAL:	DATE:	AE REVIEWED:

PRODUCT DESCRIPTION: SPOKANE HOPPER	ITEM NUMBER: * UCS-2422K	QUOTE DATE: 01/13/22	SHEET 1 OF 1
DIMENSIONS: 25" x 32.02" x 49.8"	ORDER QUANTITY:	PRICE (BASED ON ORDER QTY) ** \$1,495.00	

*ORDER VIA ITEM NUMBER. DELIVERY and **INSTALLATION CHARGES MAY APPLY



- 1 YEAR WARRANTY
- HEAVY STEEL CONSTRUCTION
- POWDER COAT FINISH
- LOCKING DOOR
- LEVELING FEET

DRAWN BY: C, Self	REVISED BY:	REVISED DATE:	APPROVED BY:	CUSTOMER APPROVAL:	DATE:	AE REVIEWED:



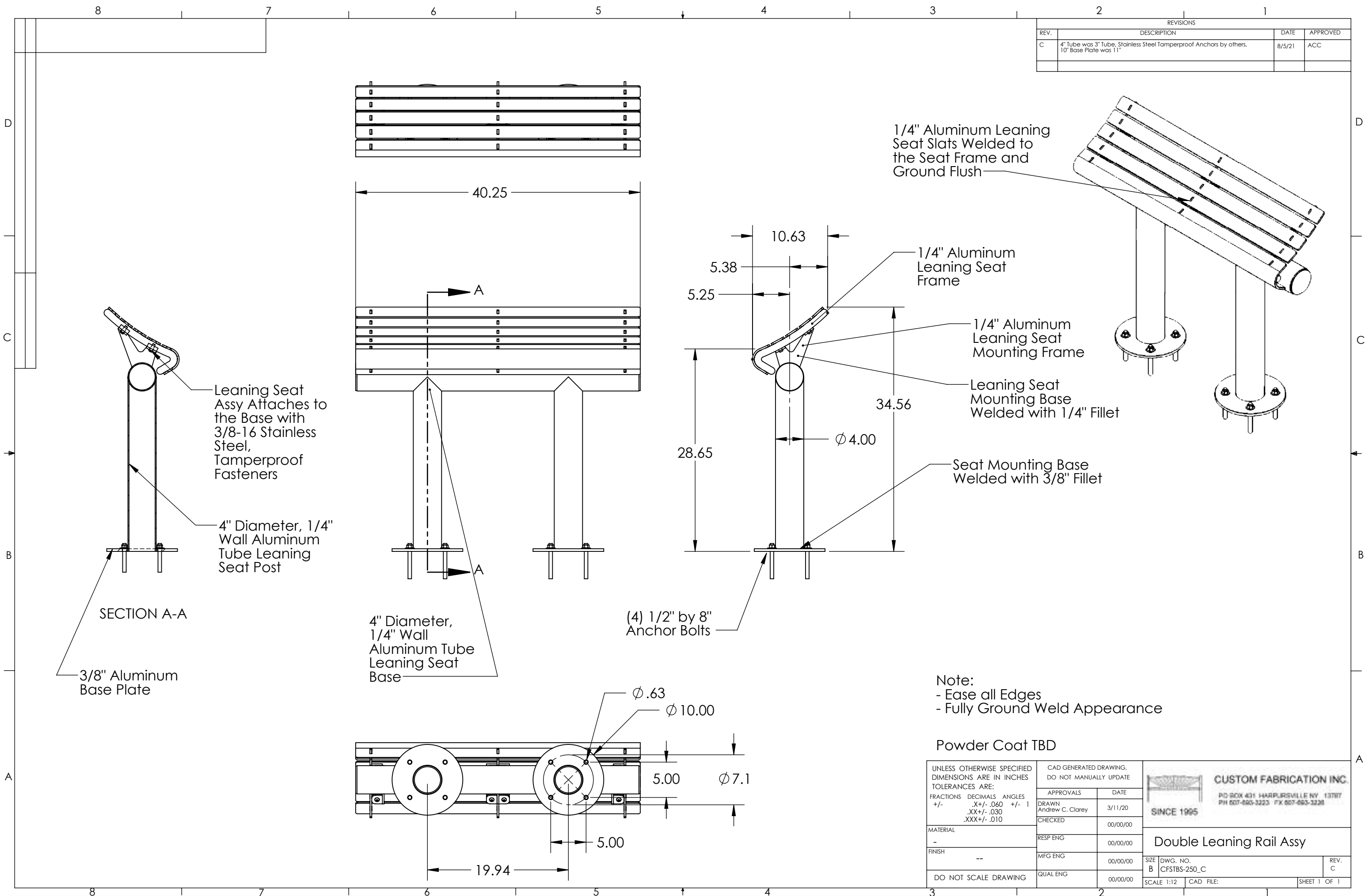
**SPOKANE TRANSIT
1230 W. BOONE AVENUE
SPOKANE, WA 99201**

**Appendix 05 – Leaning Rail Drawings
SPRAGUE LINE HPT - PHASE 2**

PROJECT #2025-11062



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
C	4" Tube was 3" Tube, Stainless Steel Tamperproof Anchors by others, 10" Base Plate was 11"	8/5/21	ACC



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES +/- .X+/- .060 +/- 1 .XX+/- .030 .XXX+/- .010			
MATERIAL	-	RESP ENG	00/00/00
FINISH	--	MFG ENG	00/00/00
DO NOT SCALE DRAWING		QUAL ENG	00/00/00

CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE	
APPROVALS	DATE
DRAWN Andrew C. Clarey	3/11/20
CHECKED	00/00/00
RESP ENG	00/00/00
MFG ENG	00/00/00
QUAL ENG	00/00/00

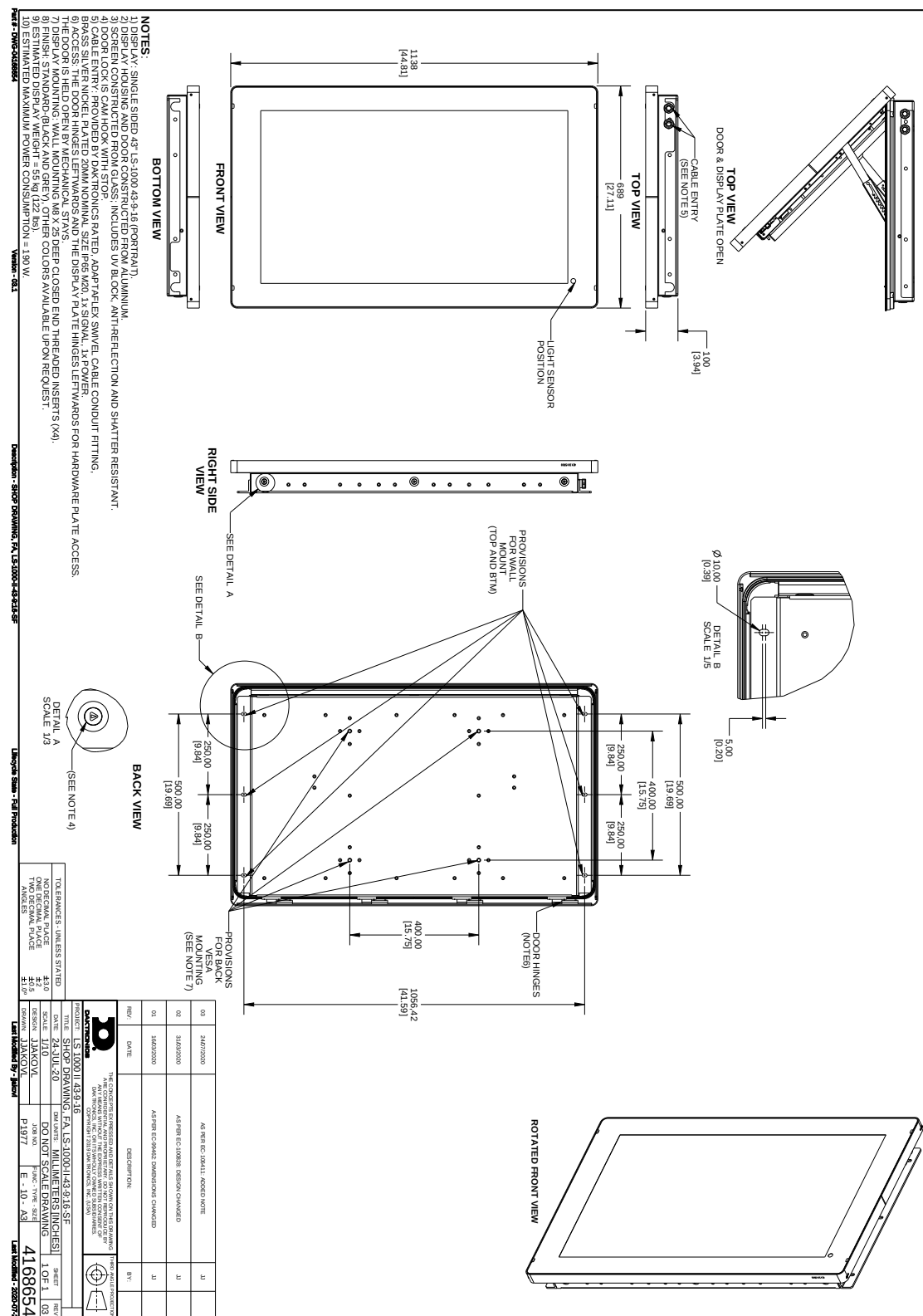
 CUSTOM FABRICATION INC. PO BOX 431 HARPURSVILLE NY 13187 PH 827-850-3223 FX 827-850-3228	
SINCE 1995	
Double Leaning Rail Assy	
SIZE B	DWG. NO. CFSTBS-250_C
SCALE 1:12	CAD FILE: SHEET 1 OF 1



**SPOKANE TRANSIT
1230 W. BOONE AVENUE
SPOKANE, WA 99201**

**Appendix 06 – Customer Information Display & RTPID
Installation Manual & Drawings
SPRAGUE LINE HPT - PHASE 2
PROJECT #2025-11062**

COMPLIANCE WITH SPECIFICATIONS





**SPOKANE TRANSIT
1230 W. BOONE AVENUE
SPOKANE, WA 99201**

**Appendix 07 – As-Built Drawings of Valley Transit Center
SPRAGUE LINE HPT - PHASE 2**

PROJECT #2025-11062



SPOKANE TRANSIT AUTHORITY SUN VALLEY TRANSIT CENTER CONTRACTING

FOURTH AVENUE & UNIVERSITY ROAD SPOKANE, WASHINGTON

ARCHITECTS: TAN BOYLE HEYAMOTO ARCHITECTS

IN ASSOCIATION WITH

KIRKWOOD ARCHITECTS AND ASSOCIATES

LANDSCAPE ARCHITECTS: JAMES F. MELSTROM & ASSOCIATES

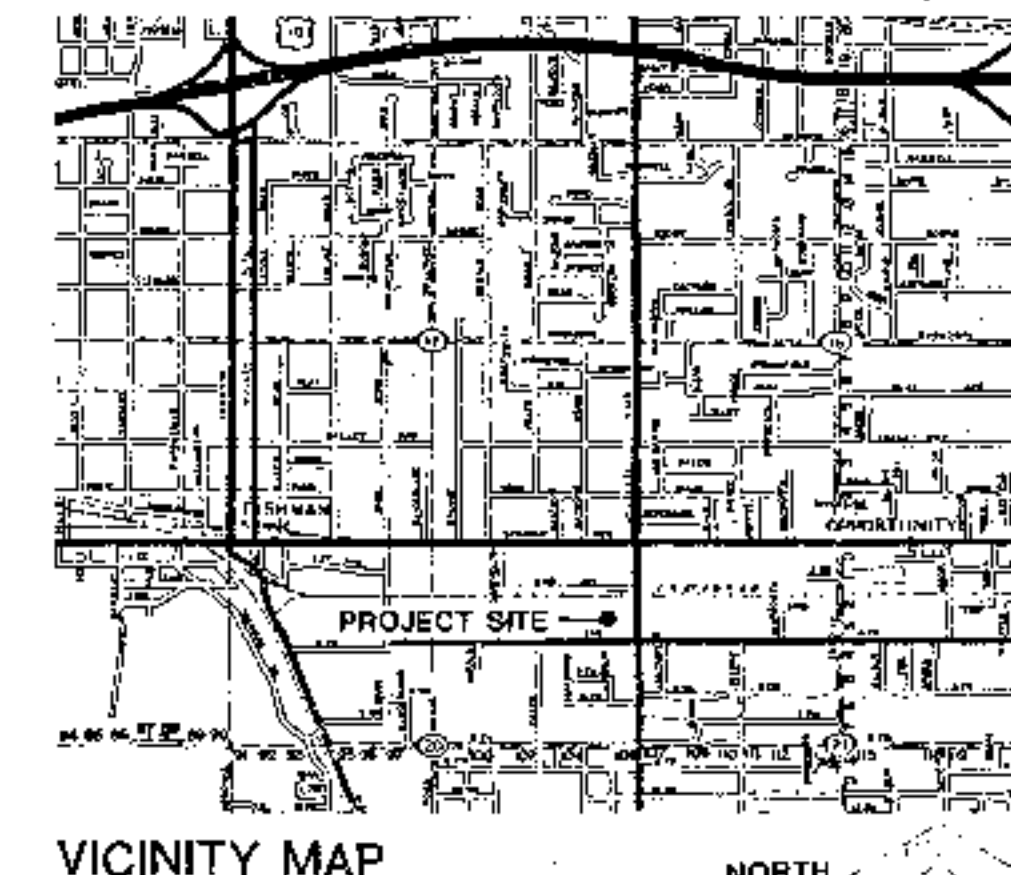
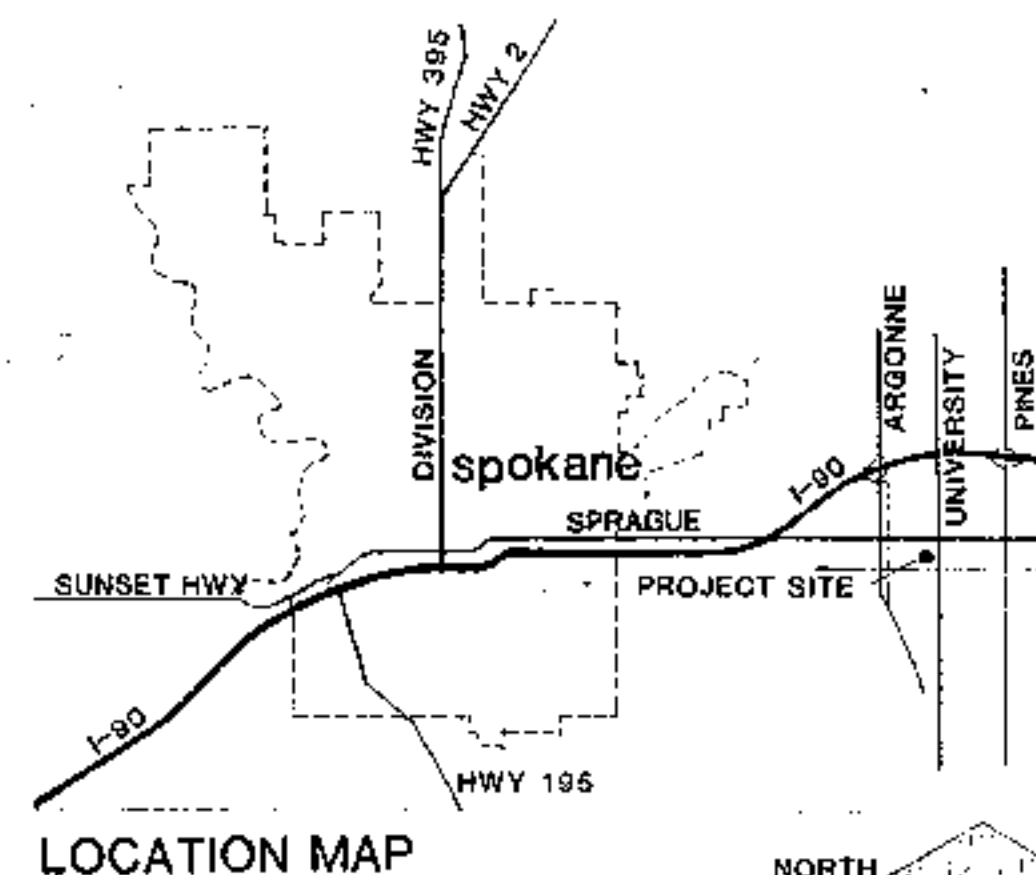
GEOTECHNICAL ENGINEERS: SHANNON & WILSON, INC.

CIVIL ENGINEERS: ADAMS & CLARK INC.

STRUCTURAL ENGINEERS: PEDEN PETERSEN LEE PS

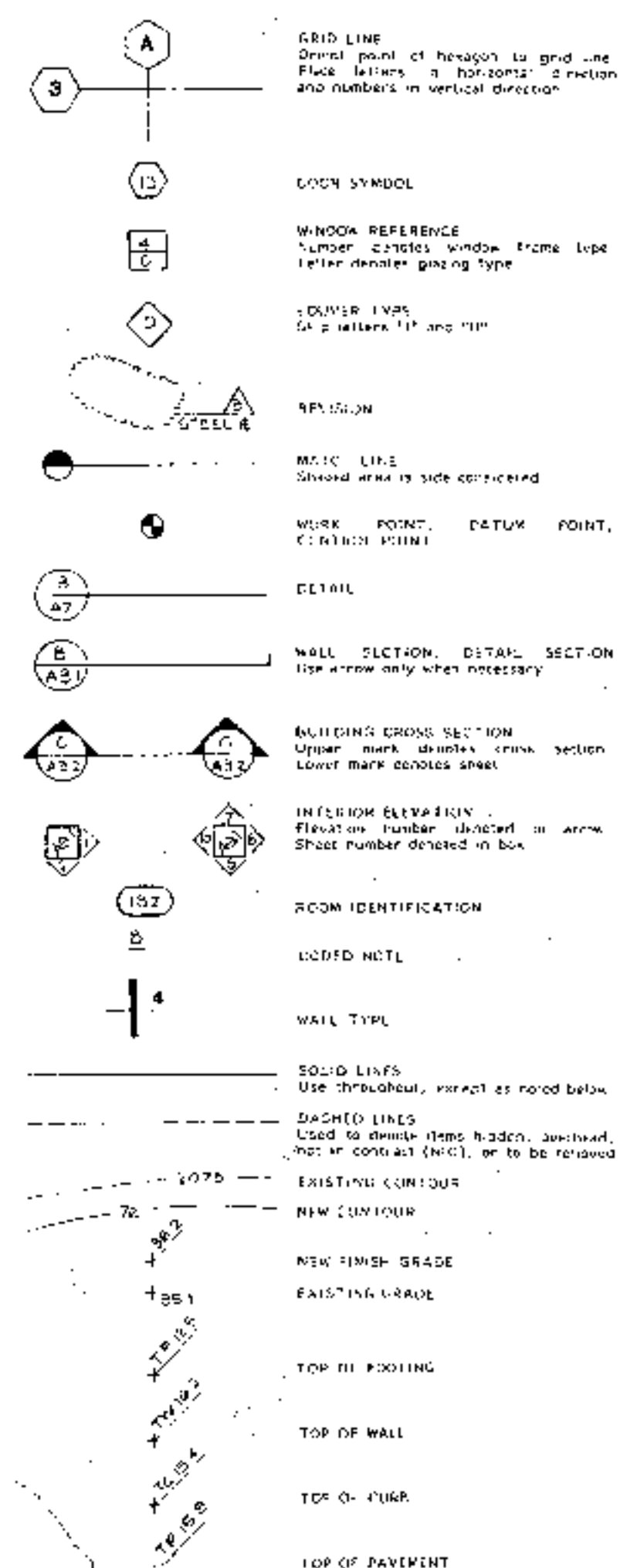
MECHANICAL ENGINEERS: THOMAS GERARD & ASSOCIATES, INC.

ELECTRICAL ENGINEERS: WANLESS COOK & ASSOCIATES

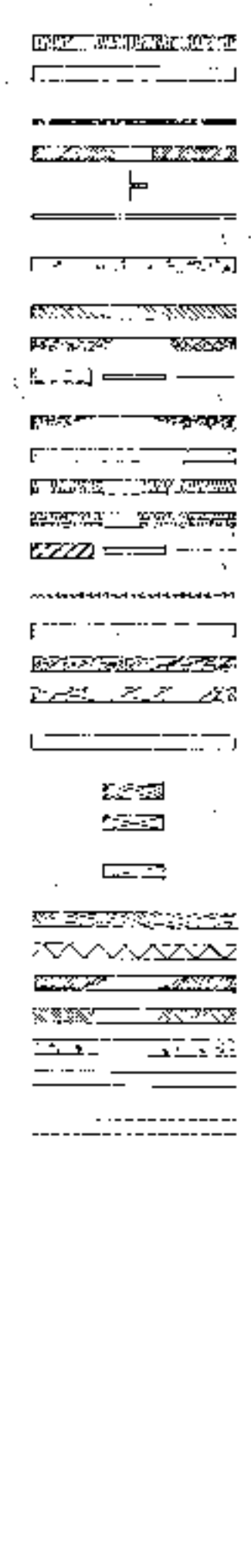


Redding Construction
Tractor 238-4563

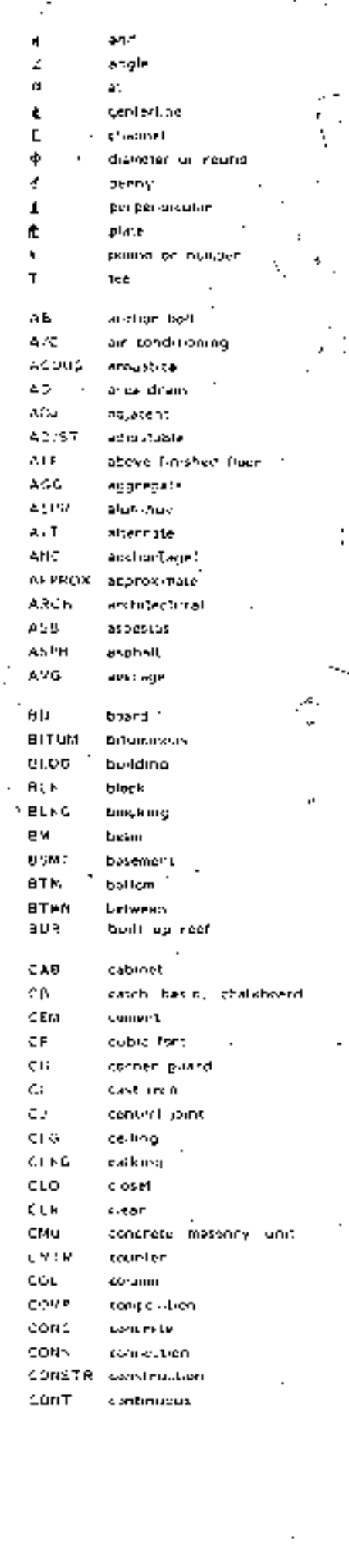
SYMBOLS



MATERIALS



ABBREVIATIONS



INDEX OF DRAWINGS

A-1	SITE SURVEY
A-2	GEOTECHNICAL DATA
L-1	PLANTING PLAN - SOUTH
L-2	PLANTING PLAN - NORTH
L-3	IRRIGATION PLAN - SOUTH
L-4	IRRIGATION PLAN - NORTH
L-5	IRRIGATION, PLANTING, AND SITE PLAN
C-1	CIVIL ENGINEERING SITE PLAN
C-2	CIVIL ENGINEERING SITE DETAILS
C-3	FOURTH AND UNIVERSITY ROAD IMPROVEMENTS
C-4	COUNTY ROAD INFORMATION, ELEVATIONS
C-5	COUNTY ROAD SECTIONS
A-3	DEMOLITION PLAN
A-4	GRAVING PLAN
A-5	SITE PLAN
A-6	SITE LAYOUT PLAN
A-7	SITE DETAILS
A-8	ENLARGED SITE PLAN, DETAILS
A-9	TRANSIT ISLAND, SPACE FRAME PLANS
A-10	ROOF PLAN, DETAILS
A-11	TRANSIT FACILITY ELEVATIONS, DETAILS
A-12	LONGITUDINAL, TRANSVERSE SECTIONS
A-13	TRANSIT FACILITY SECTION, INTERIOR ELEVATIONS
A-14	MISCELLANEOUS DETAILS
A-15	WIND SCREEN, TYPE 1
A-16	KIOSKS
A-17	SIGNAGE LAYOUT PLAN
A-18	SIGNAGE TYPES, PILLARS
A-19	DECKING LAYOUT, SIGNAGE
S-1	FOUNDATION PLAN, FRAMING PLAN
S-2	SECTIONS AND DETAILS
S-3	SECTIONS AND DETAILS
M-1	MECHANICAL SITE AND FLOOR PLANS
E-1	ELECTRICAL SITE PLAN
E-2	ELECTRICAL TRANSIT ISLAND PLAN
E-3	ELECTRICAL DETAILS, RISER DIAGRAM

State Inspector 450
Steve Post
450-2791

Electric Engineer
Wanless-Cook
Gregg Hoffman
838-1469

RECORD DRAWING

TITLE 34661

LINE	BEARING - DISTANCE
L1	N87°08'37"E 20.00
L2	N02°31'44"W 0.48
L3	N42°19'38"E 15.80
L4	N87°10'09"E 7.45
L5	N02°31'27"W 1.58

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION FROM THE RECORD DESCRIPTION, AND THAT IT SHOWS THE TRUE LOCATION OF IMPROVEMENTS AND THAT THERE ARE NO BUILDING ENCROACHMENTS EITHER WAY ACROSS PROPERTY LINES EXCEPT AS SHOWN HEREON.

Daniel B. Clark
 DANIEL B. CLARK
 P.L.S. 12904



● BENCH MARK: "X" ON WEST HEAD BOLT OF FIRE HYDRANT 8 SW CORNER OF 4TH & UNIVERSITY. ELEVATION = 1998.82

● BENCH MARK: "X" ON NW HEAD BOLT OF FIRE HYDRANT LOCATED 850' +/- WEST OF UNIVERSITY ROAD. ELEVATION = 1995.74

NOTE

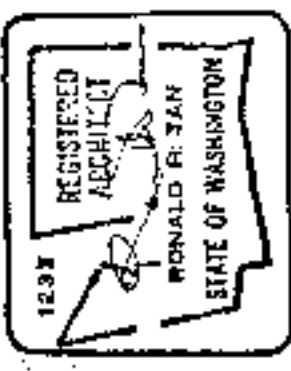
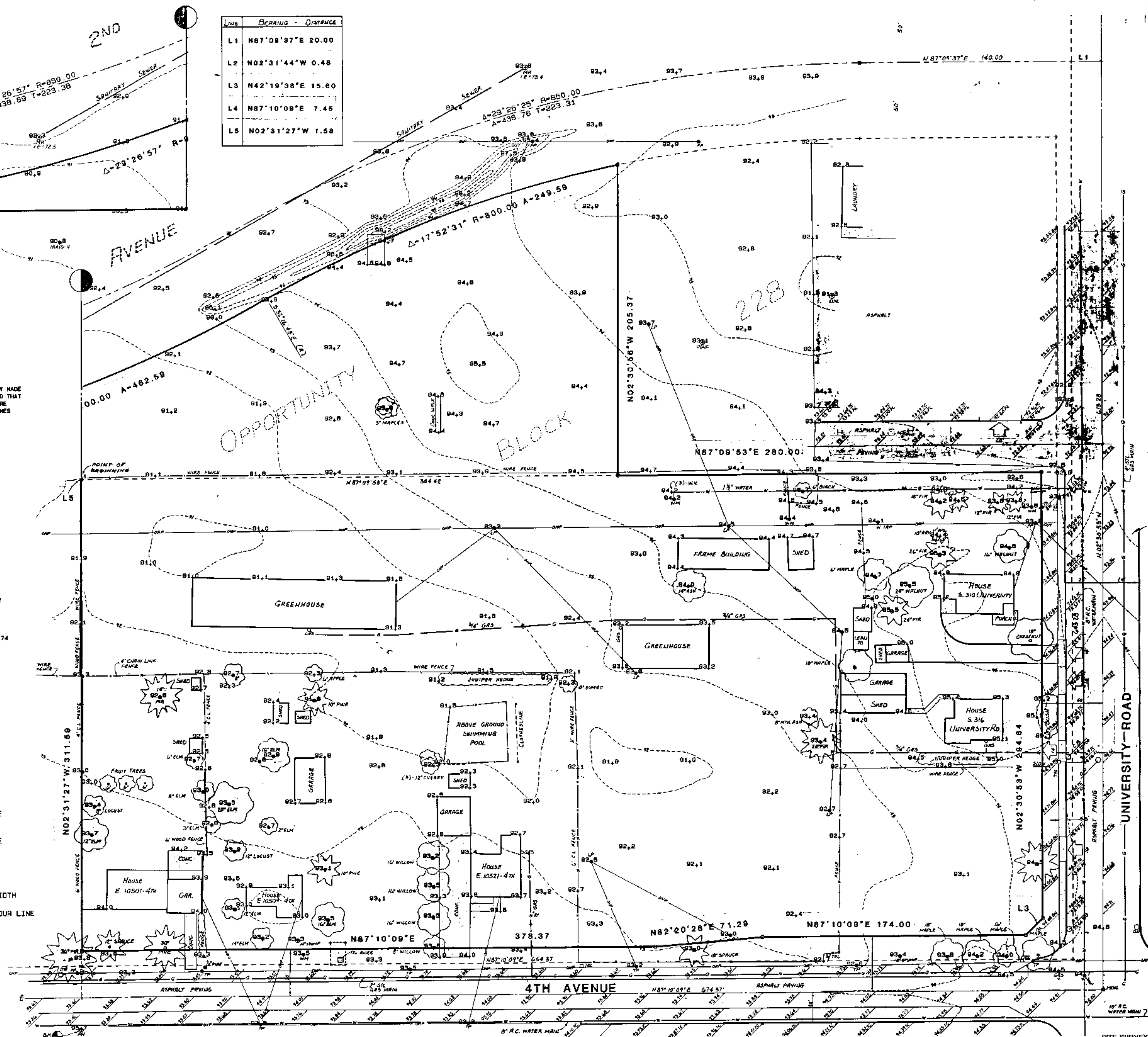
ALL UNDERGROUND UTILITY LOCATIONS AND DESCRIPTION INFORMATION SHOWN HEREON ARE BASED ON FOUND PHYSICAL SURFACE EVIDENCE AND RESEARCH OF CURRENT UTILITY COMPANY RECORDS. CONTRACTOR TO VERIFY IN THE FIELD WITH EACH UTILITY COMPANY PRIOR TO ANY CONSTRUCTION.

SCALE 1"=30'

LEGEND

- DWYELL
- POWER POLE
- LIGHT POLE
- TELEPHONE POLE
- TELEPHONE RISER
- WATER VALVE
- GAS VALVE
- IRRIGATION VALVE
- WATER METER
- SANITARY SEWER MANHOLE
- CATCH BASIN
- OVERHEAD POWER LINES

- DECIDUOUS TREE
- EVERGREEN TREE
- CONCRETE
- ASPHALT
- CURB DROP W/WIDTH
- EXISTING CONTOUR LINE



TAN BOYLE HEVAMOTO ARCHITECTS IN ASSOCIATION WITH KIRKWOOD ARCHITECTS AND ASSOCIATES
 SUITE 715 SOUTH 8 WASHINGTON
 SPOKANE, WASHINGTON 99204
 (509) 838-7474

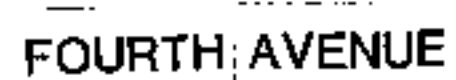
SPOKANE TRANSIT AUTHORITY
 VALLEY TRANSIT CENTER
 FORTH AVENUE & UNIVERSITY ROAD
 SPOKANE, WASHINGTON



PROJECT NO. 8703
 DRAWN DC
 CHECKED MRB
 DATE 9/16/88

A-1

SITE SURVEY



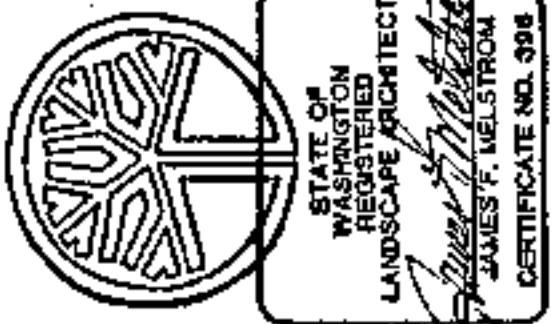
1° EQUALS 20'

L-1

TAN BOYLE HEYAMOTO ARCHITECTS IN ASSOCIATION WITH KIRKWOOD ARCHITECTS AND ASSOCIATES
NORTH 117 1/2 HOWARD STREET
SPOKANE, WASHINGTON 99201
(509) 455-6648

SUITE 718 SOUTH O WASHINGTON
SPOKANE, WASHINGTON 99204
(509) 838-7474

STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
James F. Melstrom
JAMES F. MELSTROM
CERTIFICATE NO. 396



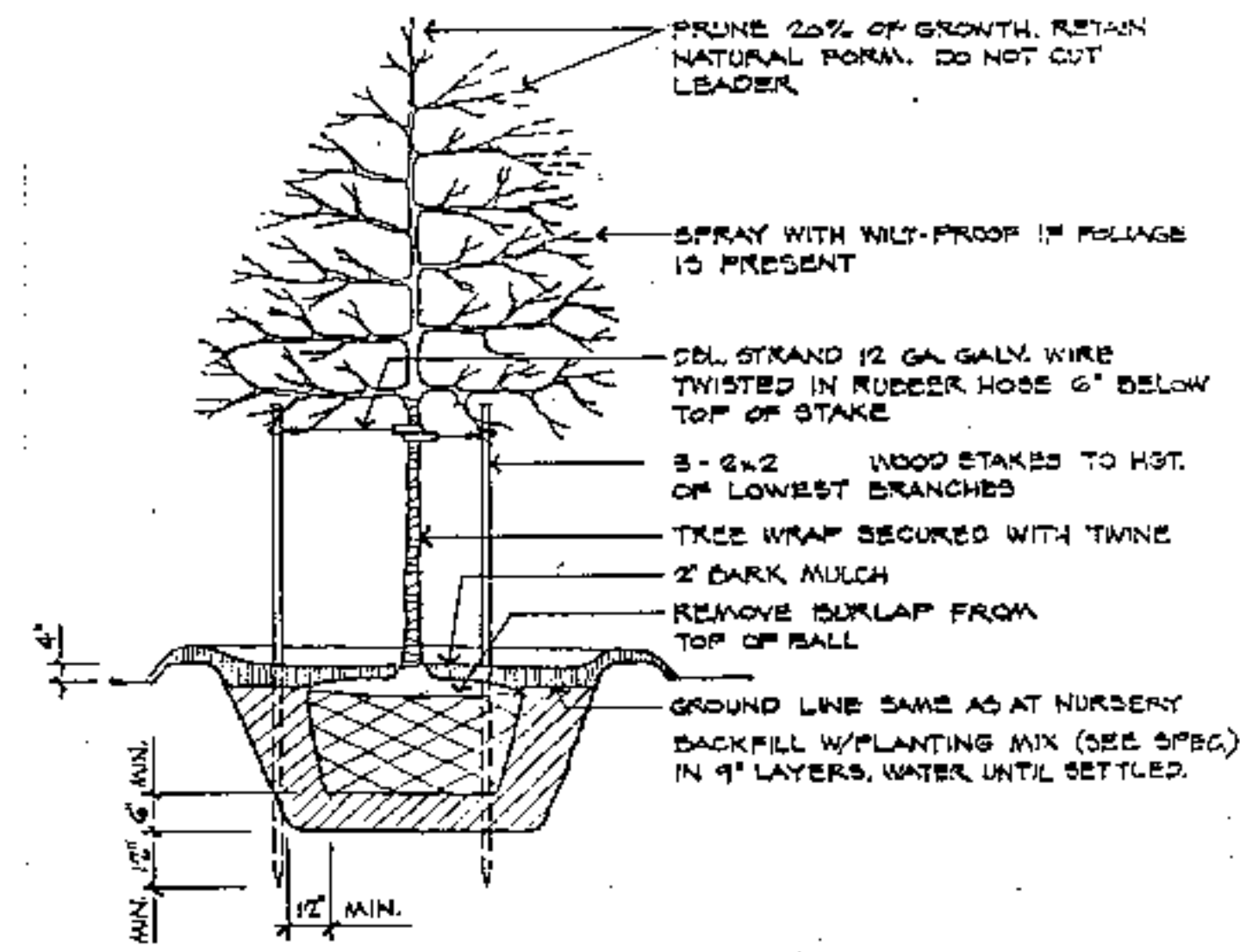
TAN BOYLE HEVANTO ARCHITECTS IN ASSOCIATION WITH KIRKWOOD ARCHITECTS AND ASSOCIATES
SUITE 715 SOUTH 9 WASHINGTON
SPokane, Washington 99204
(509) 638-7474

SPokane TRANSIT AUTHORITY
VALLEY TRANSIT CENTER
FORTH AVENUE & UNIVERSITY ROAD
SPokane, Washington

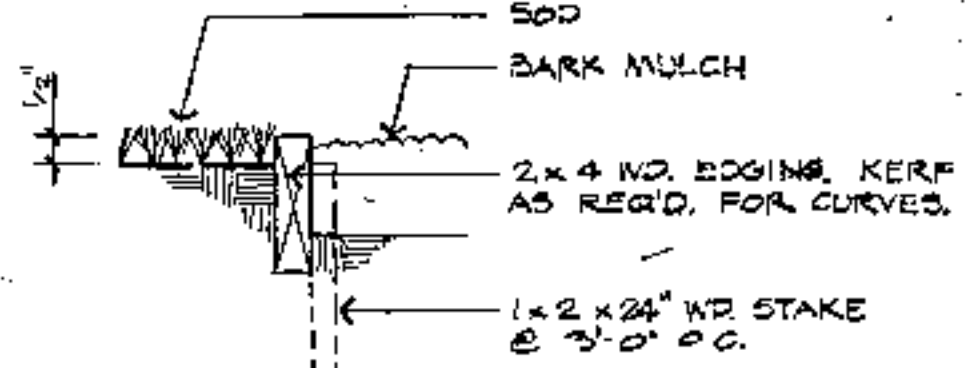


PROJECT NO. 8703
DRAWN JM
CHECKED JM
DATE 9/16/88

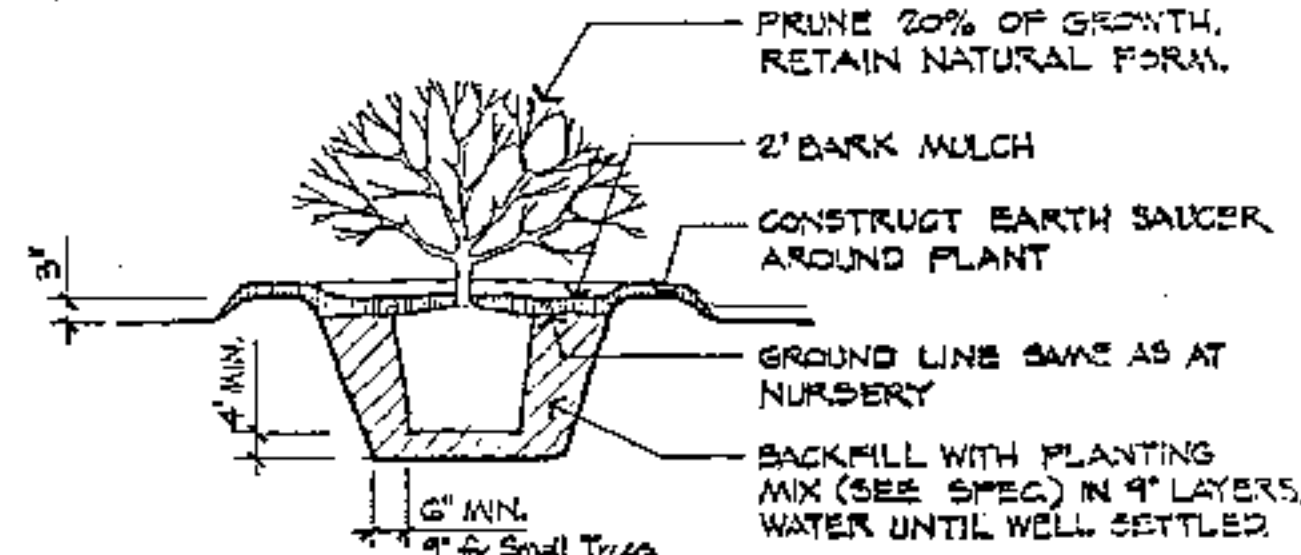
L-2



TREE PLANTING DETAIL
NO SCALE CONIFERS SIMILAR



WOOD EDGING DETAIL
1/2\"/>



SHRUB PLANTING DETAIL
NO SCALE SMALL TREES SIM.

PLANTING NOTES

1. PLANT QUANTITIES ARE PROVIDED ON THE PLANT LIST AS A CONVENIENCE. THE CONTRACTOR SHALL PROVIDE ALL PLANTS INDICATED ON THE DRAWINGS. SHOULD A DISCREPANCY EXIST BETWEEN THE PLANT LIST AND THE DRAWINGS, THE DRAWINGS SHALL TAKE PRECEDENCE. BIDDERS SHOULD VERIFY THAT THE QUANTITIES GIVEN ON THE PLANT LIST CORRESPOND TO WHAT IS SHOWN ON THE DRAWINGS.
2. THE FINAL LOCATIONS OF ALL PLANTS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO PLANTING.
3. PROVIDE TOPSOIL IN SOD AREAS (SEE SPECIFICATIONS).
4. USE ONLY "THREE-WAY MIX" AS BACKFILL IN TREE AND SHRUB PLANTING HOLES. DO NOT USE EXCAVATED SOIL AS BACKFILL.
5. STAKE ALL TREES 2 1/2\"/>
6. PROVIDE 2\"/>
7. APPLY PRE-EMERGENCE HERBICIDE IN SHRUB PLANTING AREAS (SEE SPECIFICATIONS).
8. NO PLANT SUBSTITUTIONS WILL BE PERMITTED.

ALTERNATE NO. 6: DOWN-SIZE TREES

UNDER ALTERNATE NO. 6, STATE THE AMOUNT TO BE DEDUCTED FROM THE BASE BID FOR SIZING TREES AS FOLLOWS:

PLANT TYPE	BASE BID	ALT. BID	REMARKS
CHERRIES/PEAR/LINDEN	2\"/>	1.75\"/>	
HONEY-LOCUST	21\"/>	21\"/>	NO CHANGE
KATSURATREE	1.75\"/>	1.75\"/>	
SPRUCE	5\"/>	4\"/>	SPECIMEN

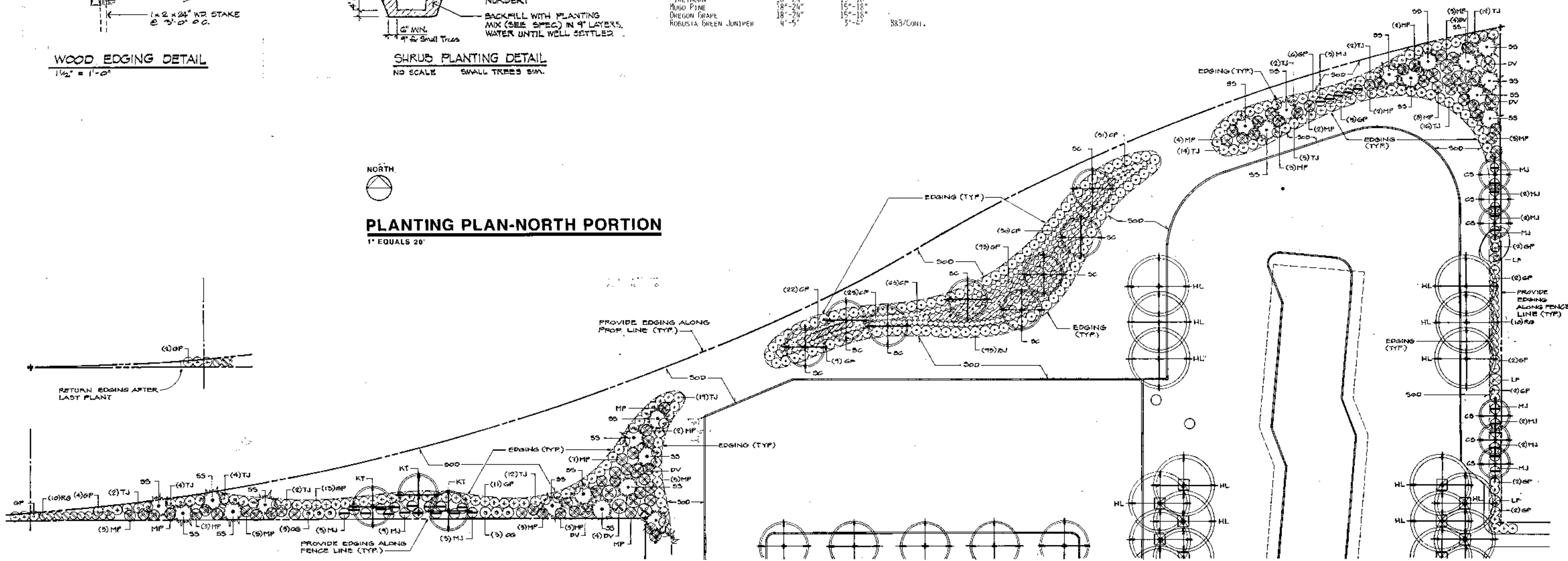
ALTERNATE NO. 7: DOWN-SIZE SHRUBS

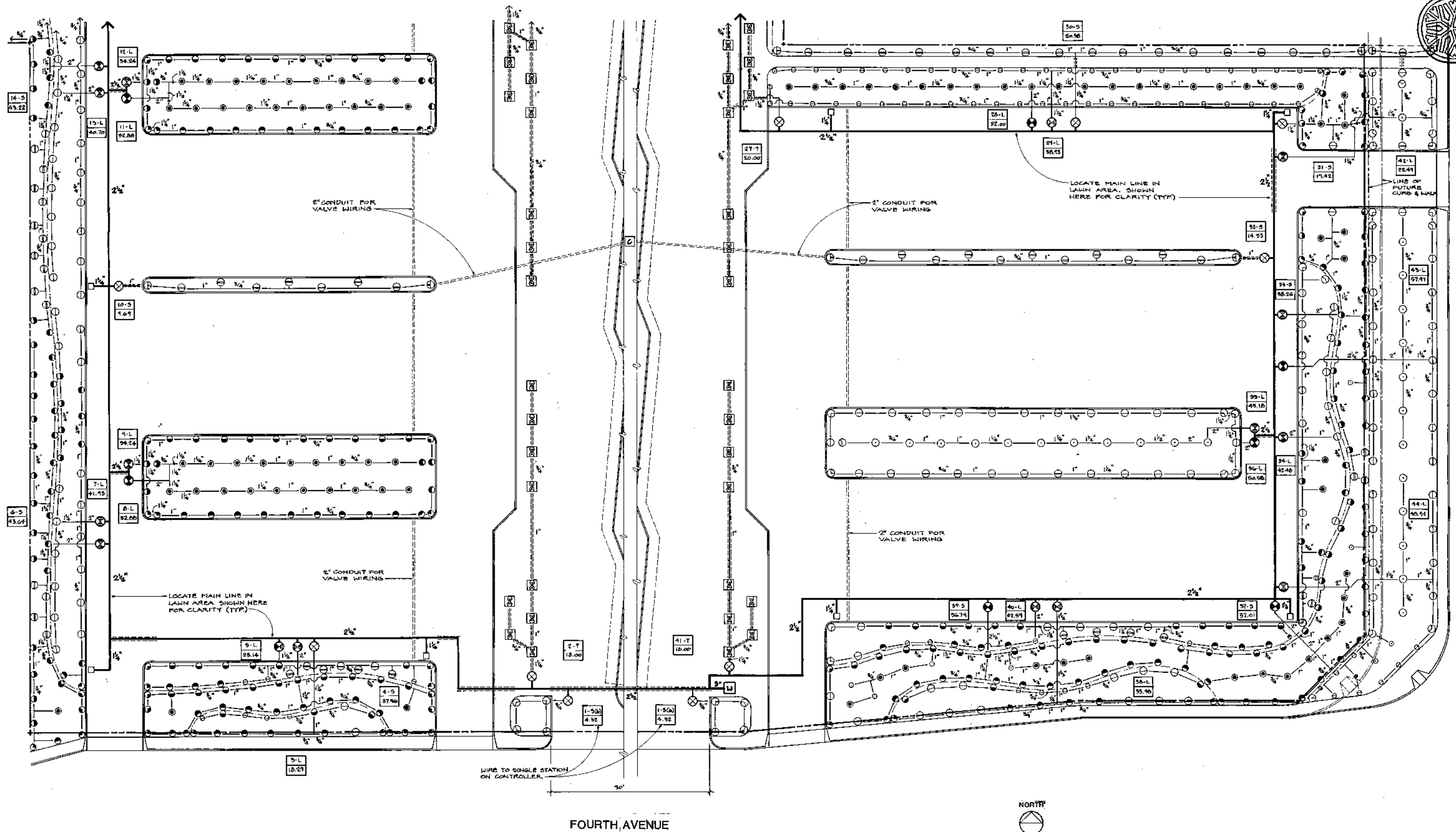
UNDER ALTERNATE NO. 7, STATE THE AMOUNT TO BE DEDUCTED FROM THE BASE BID FOR SIZING SHRUBS AS FOLLOWS:

PLANT TYPE	BASE BID	ALT. BID	REMARKS
JUNIPERS (SPREADING)	18\"/>	15\"/>	
BARBERRY	12\"/>	9\"/>	
VIBURNUM	24\"/>	18\"/>	
ALAE/RHODODENDRON	18\"/>	15\"/>	
SPIREA	15\"/>	12\"/>	
THORN	18\"/>	15\"/>	
MUGO PINE	18\"/>	15\"/>	
OREGON GRAPE	18\"/>	15\"/>	
ROBUSTA GREEN JUNIPER	4\"/>	3\"/>	B&B/CONT.

PLANT LIST

KEY	QUANTITY	COMMON NAME (BOTANICAL NAME)	MIN. SIZE	CONDITION	REMARKS
SHADE TREES / FLOWERING TREES:					
CS	15	COLUMBAR SARGENT CHERRY (PRUNUS SARGENTII 'COLUMBARIS')	2\"/>	B&B	
FP	55	FLOWERING PEAR (PYRUS CALLERYANA 'REDSPIRE')	2\"/>	B&B	
HL	44	HONEY-LOCUST (GLADISTIA TRIACANTHOS 'SKYLINE')	21\"/>	B&B	SPECIAL GROWTH FORM REQUIRED SEE SPECIFICATIONS
KT	3	KATSURATREE (CERCIDIPHYLLUM JAPONICUM)	1.75\"/>	B&B	
LL	29	LITTLELEAF LINDEN (TILIA CORDATA 'GREENSPIRE')	2\"/>	B&B	
SC	19	SHINDOGEN CHERRY (PRUNUS SERRULATA 'SHIROFUGEN')	2\"/>	B&B	
CONIFERS:					
SS	33	SERBIAN SPRUCE (PICEA OMORICA)	5'-6'	B&B	
SHRUBS:					
BJ	400	BROADMOOR JUNIPER (JUNIPERUS SABINA 'BROADMOOR')	18\"/>	CONT.	
CP	752	CRIMSON PYGMY BARBERRY (BERBERIS THUNBERGII 'C. P.')	12\"/>	CONT.	
JV	12	DOUBLELEAF VIBURNUM (VIBURNUM PLICATUM TOMENTOSUM 'HARVEST')	24\"/>	B&B/CONT.	
EA	37	EXBURY AZALEA (INDIGOLENDRON 'EXBURY HYBRID')	18\"/>	B&B/CONT.	
GP	549	GOLD FLAME SPIREA (SPIRAEA BURNALDA 'GOLD FLAME')	15\"/>	CONT.	
GP	113	GOLD FEITZER JUNIPER (JUNIPERUS CHINENSIS 'PFITZERTANA ALBA')	18\"/>	CONT.	
IF	8	LALAND FIRETHORN (PYRACANTHA COCCINEA 'LANDEI')	18\"/>	CONT.	FULL & BUSHY
MJ	74	MINT JULEP JUNIPER (JUNIPERUS CHINENSIS 'MINT JULEP')	18\"/>	CONT.	
MP	68	MUGO PINE (PINUS MUGO MUGO)	18\"/>	B&B/CONT.	FULL SIZE FORM
OG	14	OREGON GRAPE (MAHONIA HODGSONII)	18\"/>	CONT.	FULL SIZE FORM, FULL & BUSHY
PR	48	PURSH RHODODENDRON (RHODODENDRON 'PJM')	18\"/>	B&B/CONT.	
RG	46	ROBUSTA GREEN JUNIPER (JUNIPERUS CHINENSIS 'ROBUSTA GREEN')	18\"/>	B&B	
SG	64	SEA GREER JUNIPER (JUNIPERUS CHINENSIS 'SEA GREER')	18\"/>	CONT.	
TJ	110	TAM JUNIPER (JUNIPERUS SABINA TAMARISCIFOLIA)	18\"/>	CONT.	





IRRIGATION PLAN-SOUTH PORTION
1" EQUALS 20'

SEAL
JAMES E. MELTON
REGISTERED
LANDSCAPE ARCHITECT
WASHINGTON
CERTIFICATE NO. 596

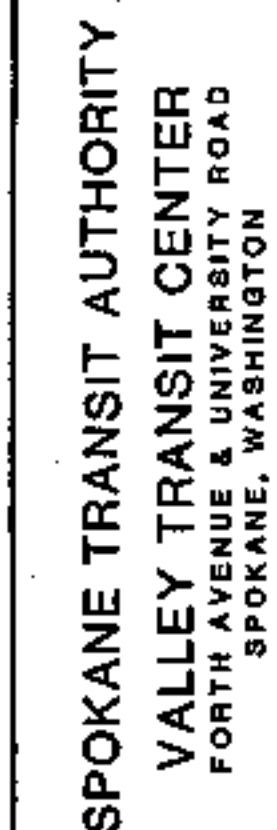
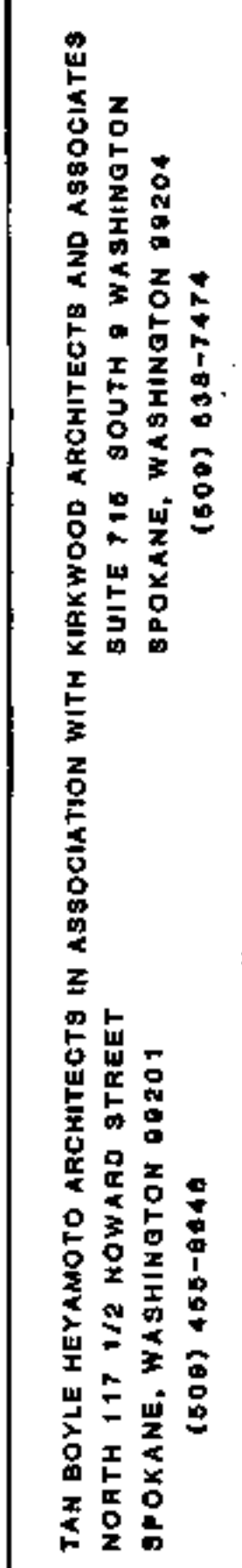
TAN BOYLE HEYAMOTO ARCHITECTS IN ASSOCIATION WITH KIRKWOOD ARCHITECTS AND ASSOCIATES
NORTH 117 1/2 HOWARD STREET
SPOKANE, WASHINGTON 99201
(509) 456-8848

SPOKANE TRANSIT AUTHORITY
VALLEY TRANSIT CENTER
FORTH AVENUE & UNIVERSITY ROAD
SPOKANE, WASHINGTON

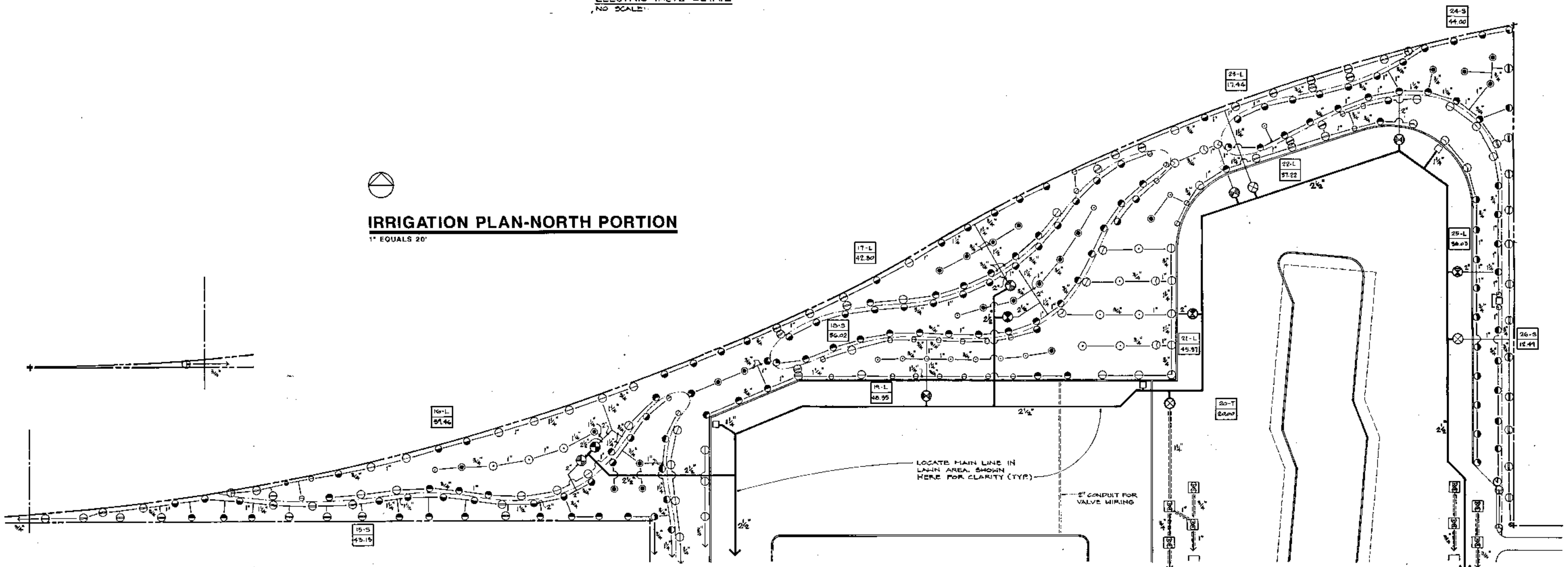


PROJECT NO. 8703
DRAWN JM
CHECKED JM
DATE 9/16/88

L-3



PROJECT NO. 8703
DRAWN JM
CHECKED JM
DATE 9/16/88





KEY	QUANTITY	COMMON NAME (BOTANICAL NAME)	MIN. SIZE	CONDITION	REMARKS
		<u>SHADE TREES / FLOWERING TREES:</u>			
AC	5	'AUTUMN BLAZE' FLOWERING PEAR (PYRUS CALLERYANA 'A.B.')	2'-2 1/2' CAL.	B&B	
		<u>CONIFERS:</u>			
AF	3	ALPINE FIR (ABIES LASIOCARPA)	3', 4', & 5'	R&R	ONE EACH SIZE, TALLEST IN MIDDLE POSITION
		<u>SMALL TREES / FLOWERING TREES:</u>			
CR	6	SARGENT CRABAPPLE (MALUS SARGENTII)	4'-5'	B&B	WELL-BRANCHED
JM	1	BLOODLEAF JAPANESE MAPLE (ACER PALMATUM 'BLOODGOOD')	4'-5'	B&B	WELL-BRANCHED
		<u>SHRUBS:</u>			
BB	3	BURNING BUSH (EUCHYPS ALATUS)	24"-50"	B&B/CONT.	FULL SIZE FORM
BJ	33	BROADMOOR JUNIPER (JUNIPERUS SARINA 'BROADMOOR')	18"-24"	CONT.	
CB	6	'CORAL BEAUTY' COTONEASTER (COTONEASTER DAMMERI 'C.3.')	15"-18"	CONT.	
DM	27	DWARF MUGO PINE ('PINUS MUGO PJM10')	15"-18"	CONT.	TRUE DWARF FORM
FT	10	FIRETHORN (PYRACANTHA COCCINEA 'LALANDET')	18"-24"	CONT.	
GF	15	GOLD FLAME SPIREA (SPIREA BURNALDA 'GOLD FLAME')	15"-18"	CONT.	FULL & BUSHY
HJ	2	HOLLYDWARF JUNIPER (JUNIPERUS CYMISTENS 'KAIZUKA')	30"-36"	B&B/CONT.	2 TO 3 LEADERS
JG	40	DWARF JAPANESE GARDEN JUNIPER (JUNIPERUS PROUDHOMENS 'NANA')	15"-18"	CONT.	
JY	30	SPREADING JAPANESE YEW (TAXUS CUSPIDATA 'DENSE')	18"-24"	B&B/CONT.	
PR	18	PJM RHODODENDRON (RHODODENDRON 'PJM')	18"-24"		
RB	9	'ROSY GLOW' BARBERRY (BERBERIS THUNBERGII ATROPUR. 'R.G.')	15"-18"	CONT.	
		<u>VINES:</u>			
	15	BIGLEAF WINTERCREEPER (LONICERUS FORTUNEI 'VEGETUS')	15"-18"	CONT.	FULL & BUSHY

SEE SHEET L-2 FOR PLANTING NOTES AND DETAILS
ALTERNATES NO. 6 AND NO. 7 DO NOT APPLY TO WORK
SHOWN ON THIS SHEET
SEE SHEET L-4 FOR ADDITIONAL IRRIGATION NOTES
AND DETAILS





TAN BOYLE HEYAMOTO ARCHITECTS IN ASSOCIATION WITH KIRKWOOD ARCHITECTS AND ASSOCIATES
NORTH 117 1/2 HOWARD STREET
SPOKANE, WASHINGTON 99201
(509) 455-8648

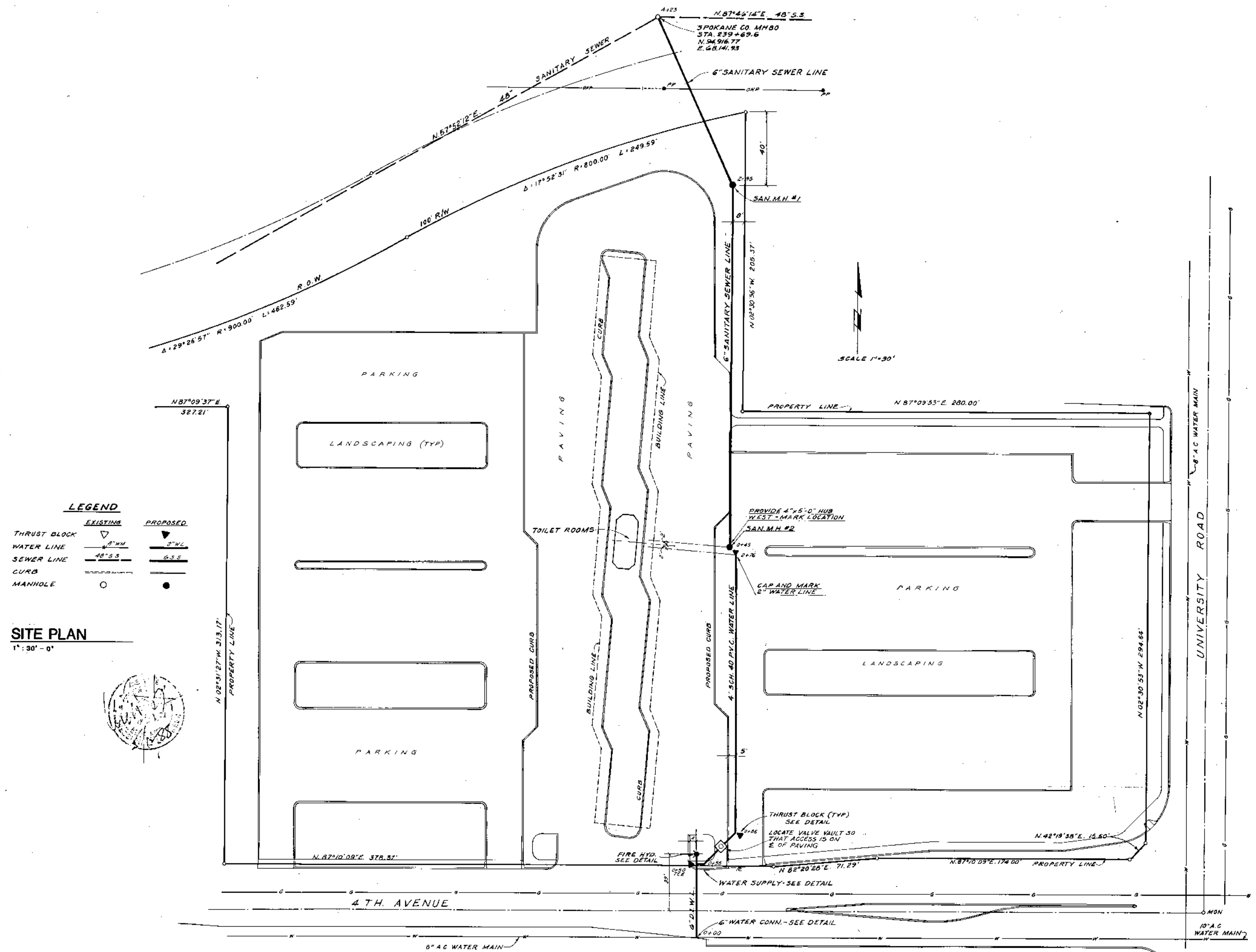
TAN BOYLE HEYAMOTO ARCHITECTS AND ASSOCIATES
SUITE 715 SOUTH 9 WASHINGTON
SPOKANE, WASHINGTON 99204
(509) 838-7474

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VALLEY TRANSIT CENTER
FORTH AVENUE & UNIVERSITY ROAD
SPOKANE, WASHINGTON

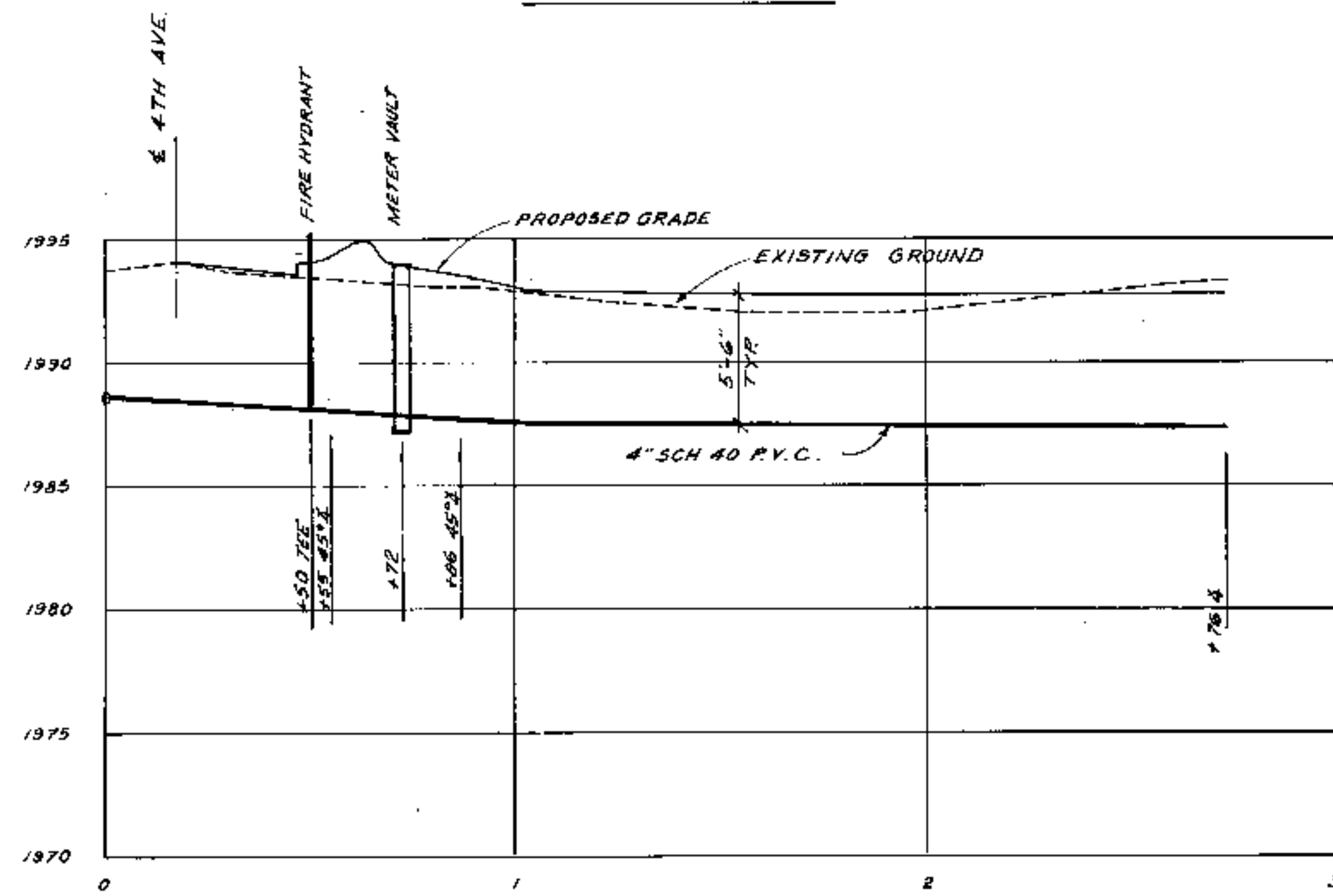


PROJECT NO. 8703
DRAWN MY
CHECKED MY
DATE 9/16/88

C-1

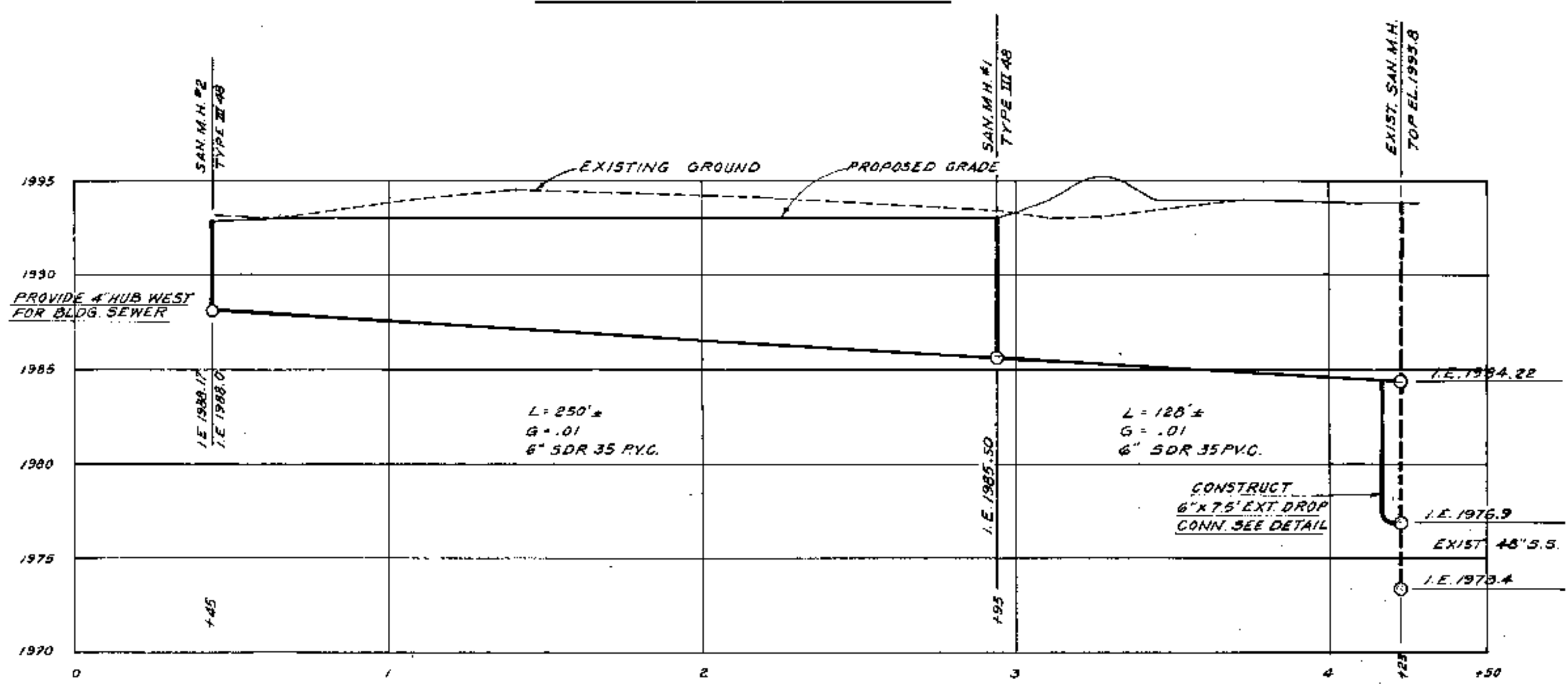


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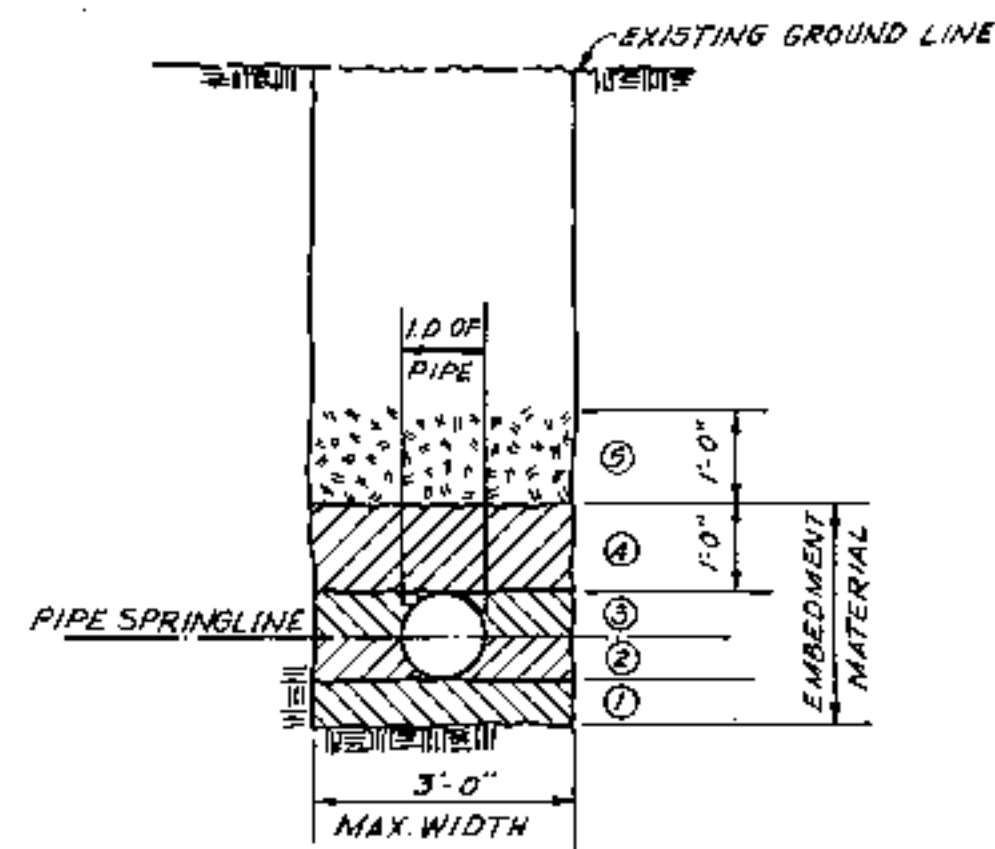


SCALE HORIZ. 1" = 30'
VERT. 1" = 5'

SANITARY SEWER LINE



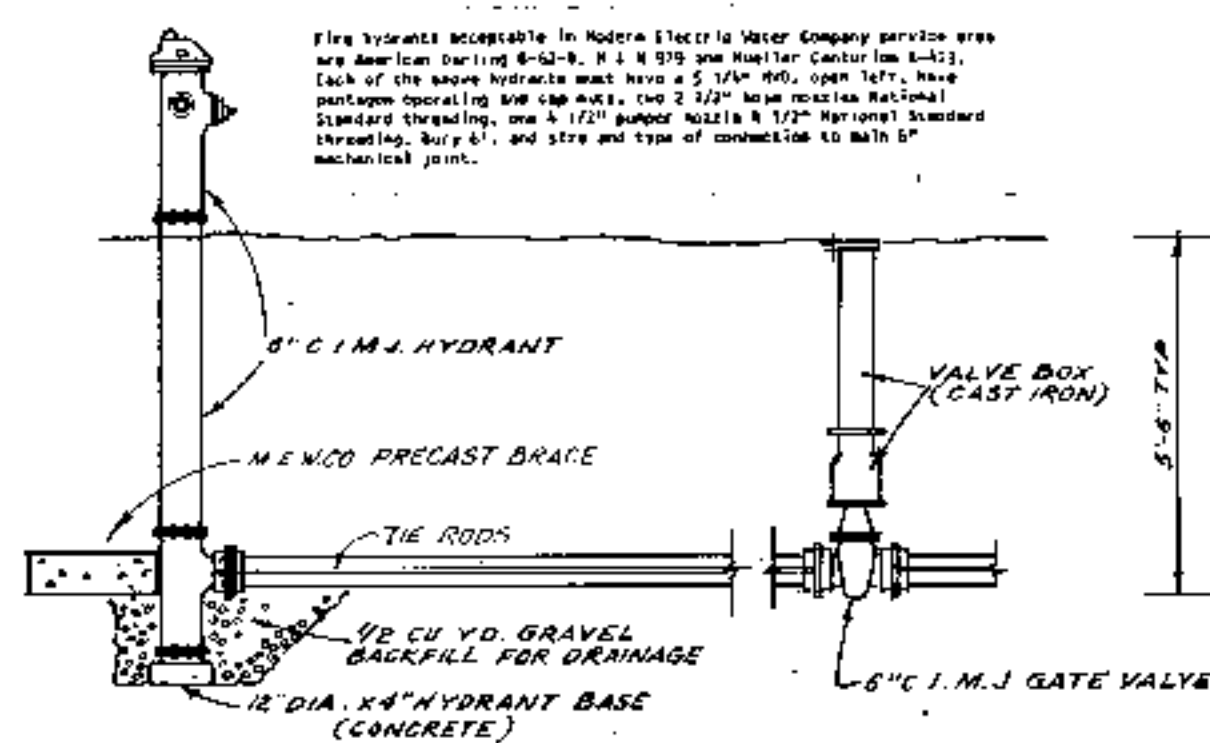
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VERT. 1" = 5'



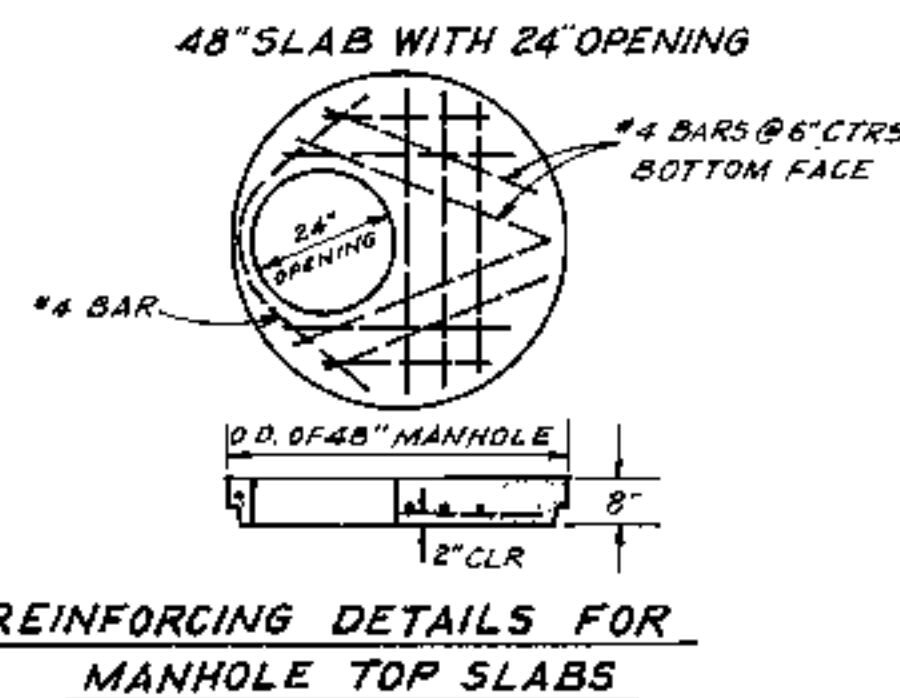
1. BEDDING OVER SOIL = 4", OVER ROCK = 6"
2. HAUNCHING
3. INITIAL BACKFILL - STAGE 1
4. INITIAL BACKFILL - STAGE 2
5. SELECT NATIVE BACKFILL

NOTE: BEGINNING AT A POINT NO LOWER THAN THE CROWN OF THE PIPE, THE CONTRACTOR MAY AT HIS OPTION AND AT NO ADDITIONAL COST TO THE OWNER, SLOPE TRENCH WALLS

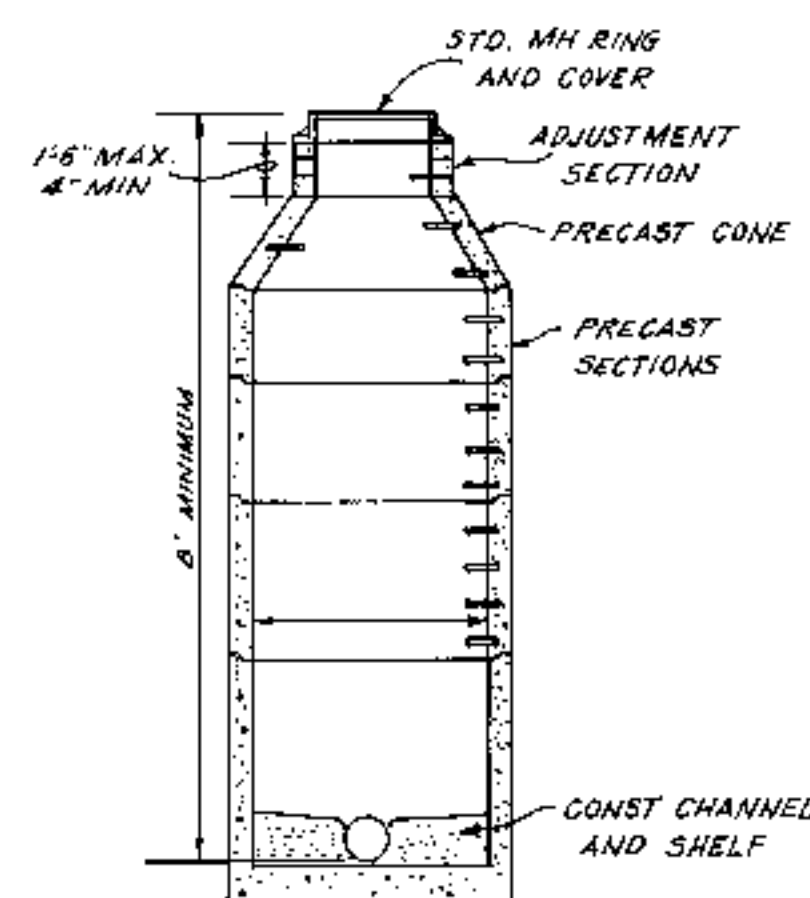
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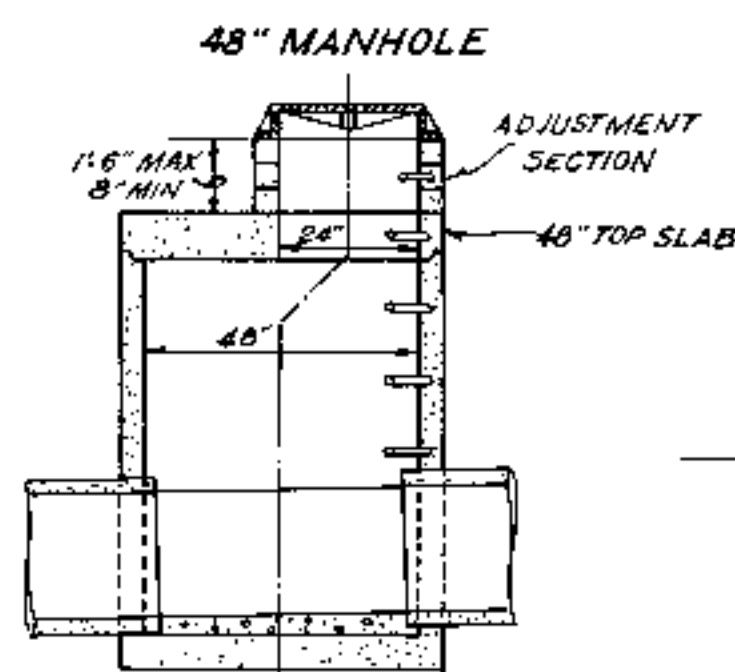
TYPICAL HYDRANT SETTING



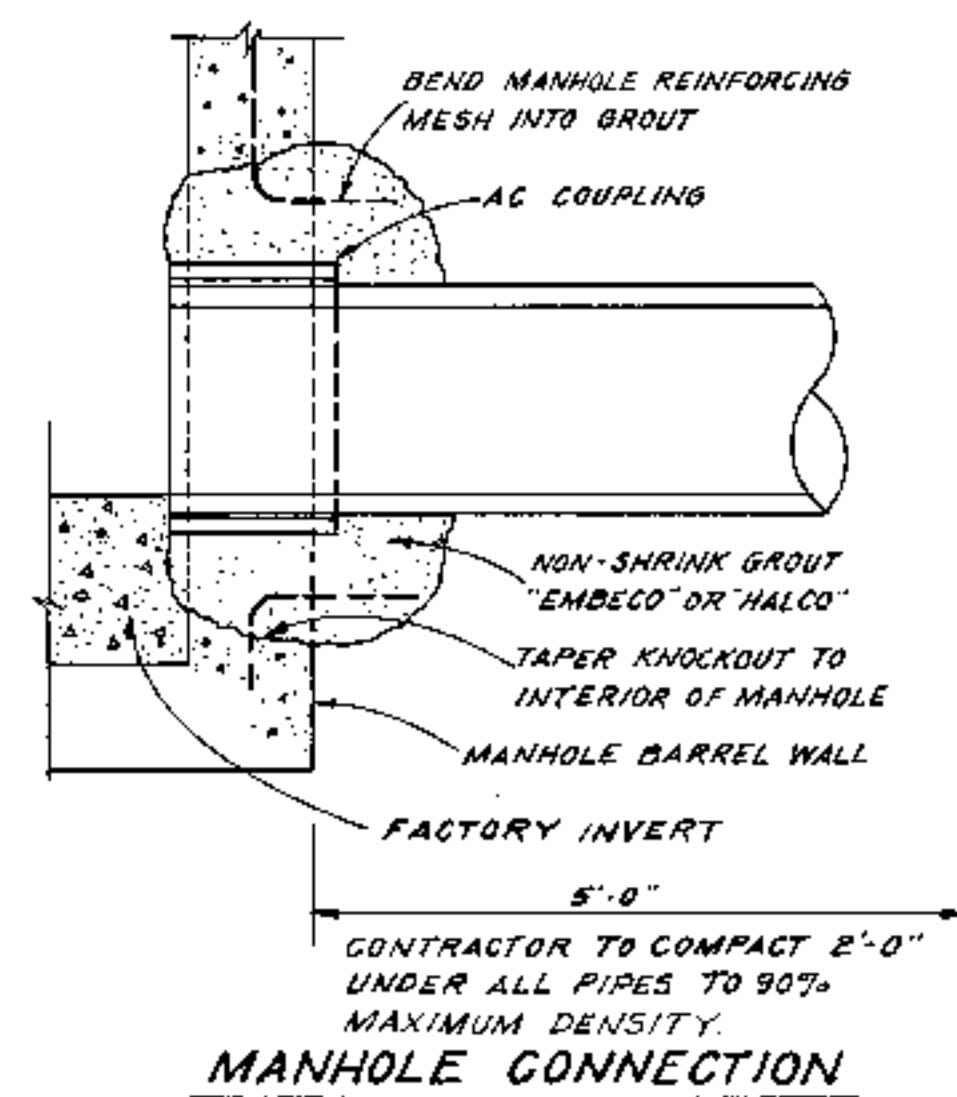
REINFORCING DETAILS FOR MANHOLE TOP SLABS



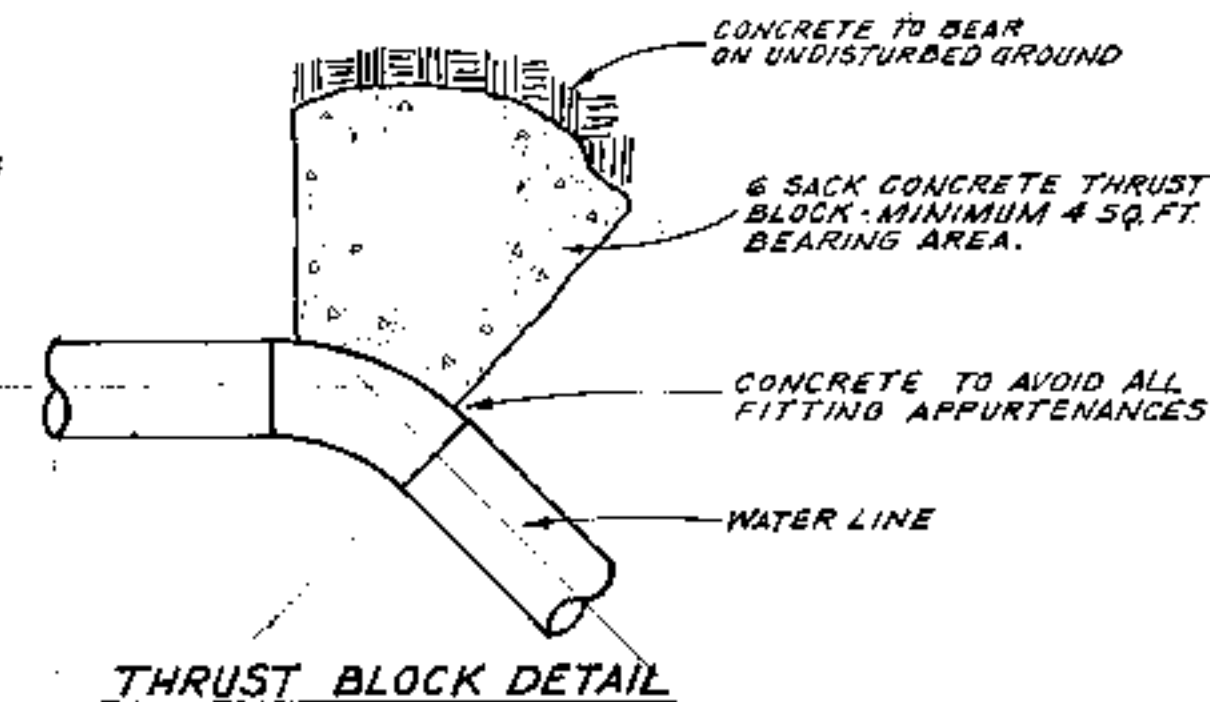
TYPE I-48 MANHOLE (NOT USED)



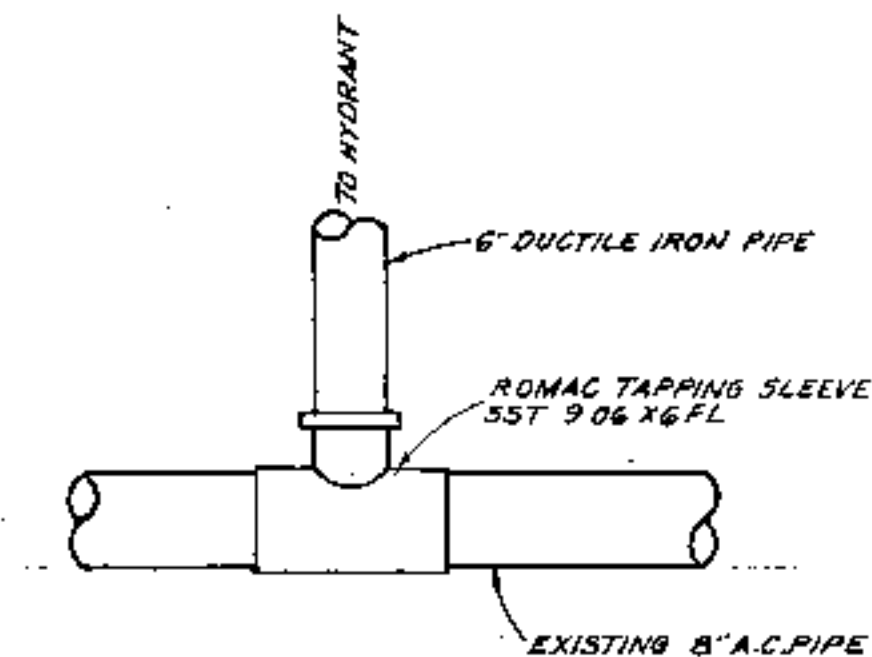
SHALLOW MANHOLES TYPE III 48



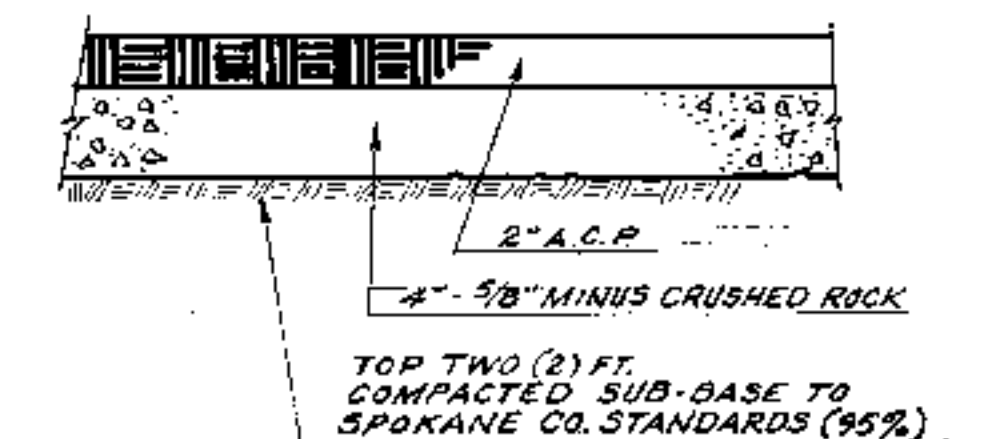
MANHOLE CONNECTION



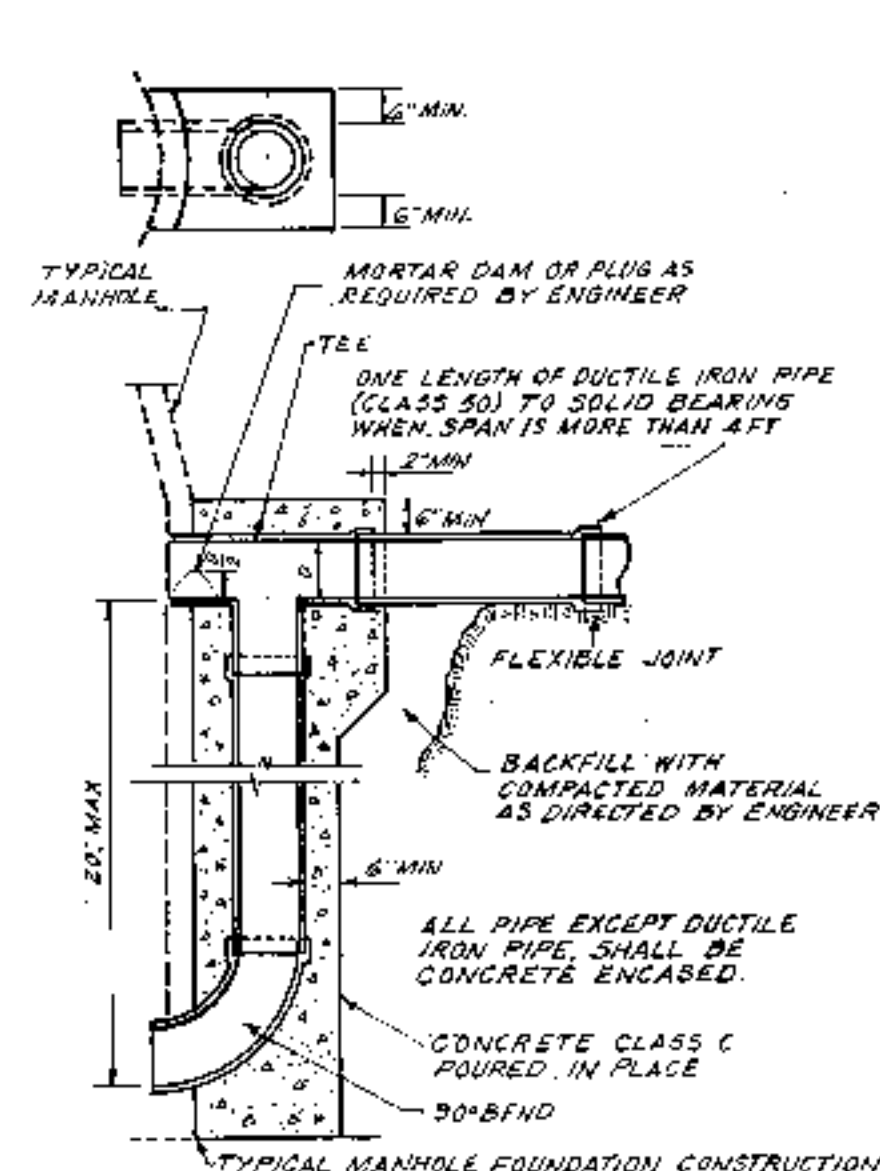
THRUST BLOCK DETAIL



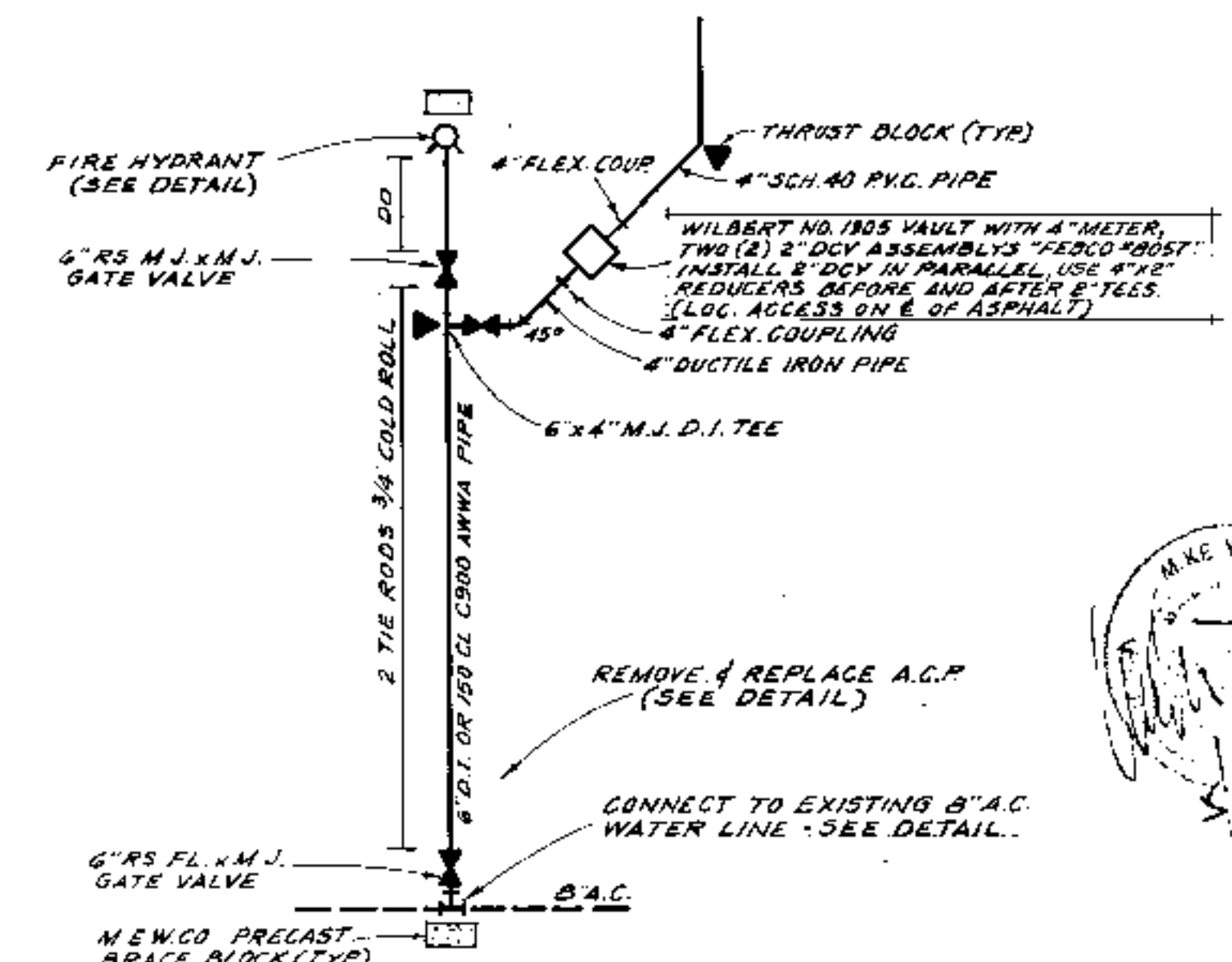
WATER MAIN CONNECTION



A.C.P. PAVEMENT REPLACEMENT



SANITARY DROP CONNECTION CONCRETE ENCASED



WATER SUPPLY DETAIL



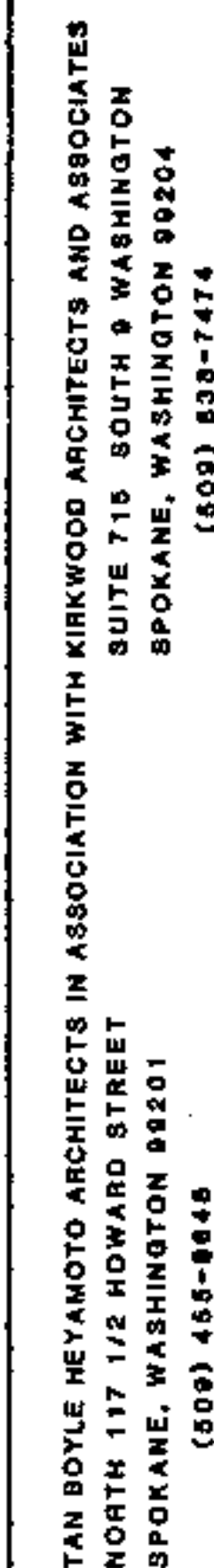
TAN BOYLE HEYAMOTO ARCHITECTS IN ASSOCIATION WITH KIRKWOOD ARCHITECTS AND ASSOCIATES
SUITE 716 SOUTH 9TH WASHINGTON STREET
SPOKANE, WASHINGTON 99204
(509) 465-8843

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SPOKANE, WASHINGTON



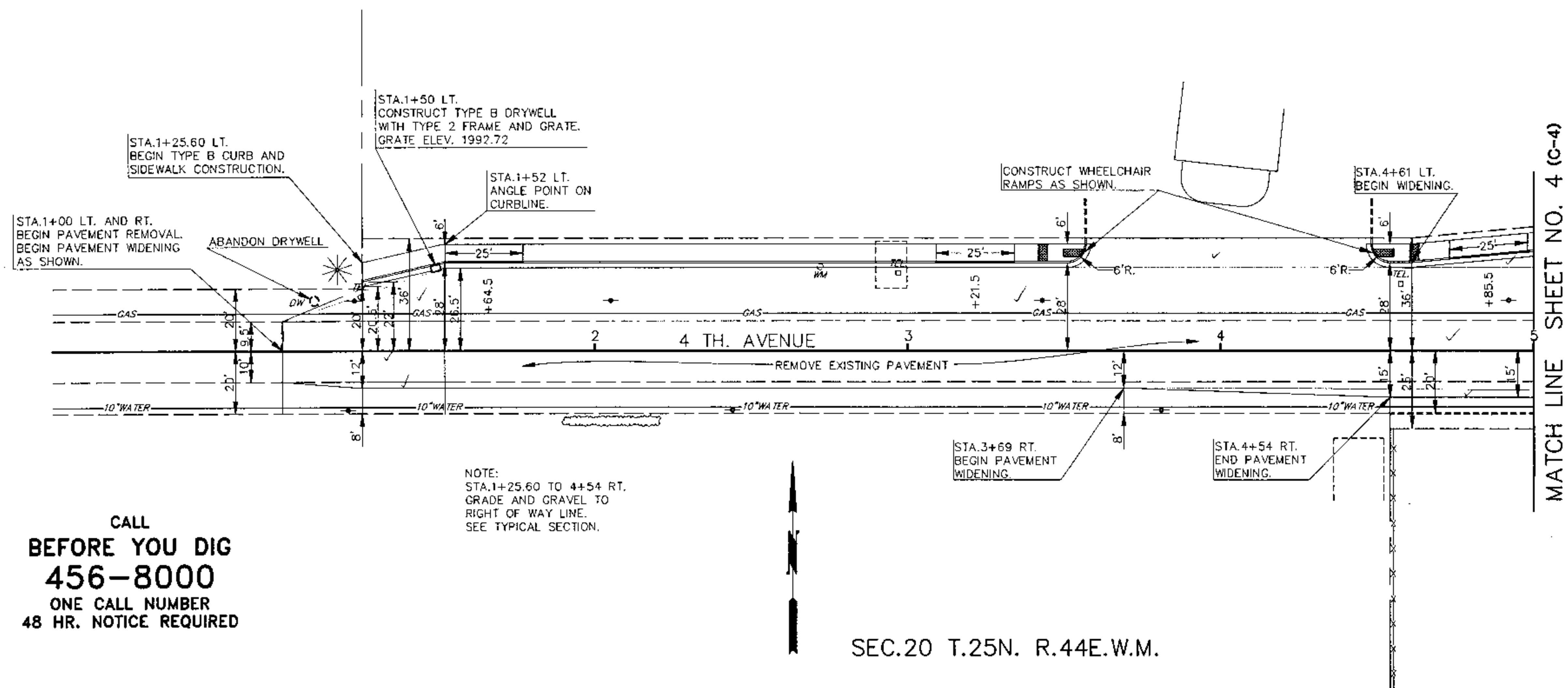
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DRAWN BY
CHECKED BY
DATE 9/16/88

C-2



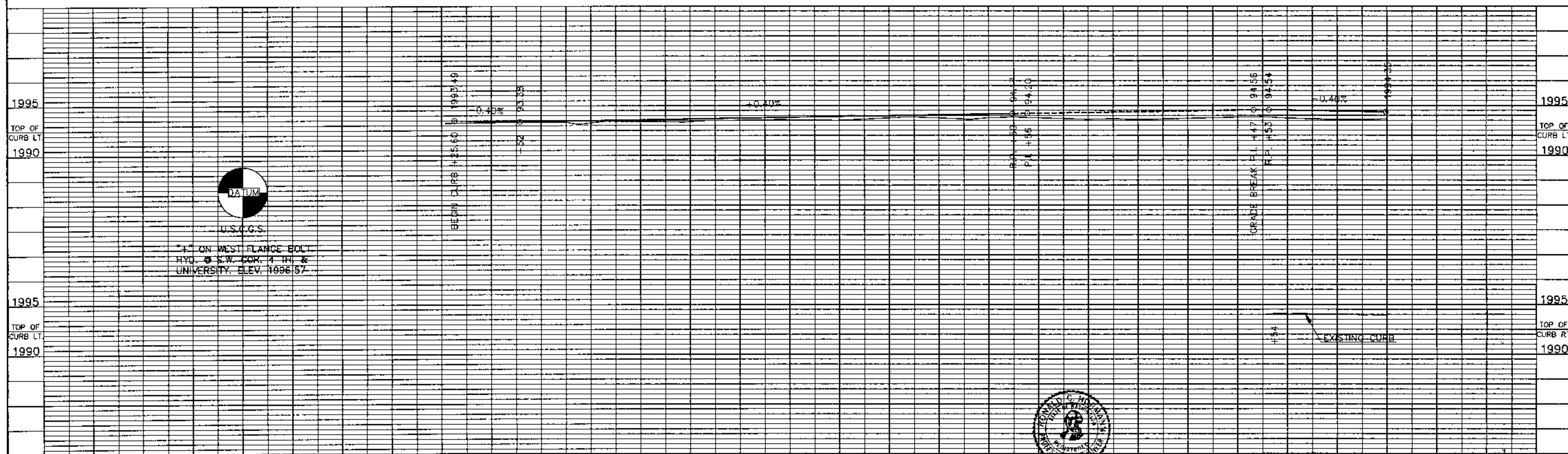
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CHECKED JF
DATE 9/16/88

C-3



CALL
BEFORE YOU DIG
456-8000
ONE CALL NUMBER
48 HR. NOTICE REQUIRED

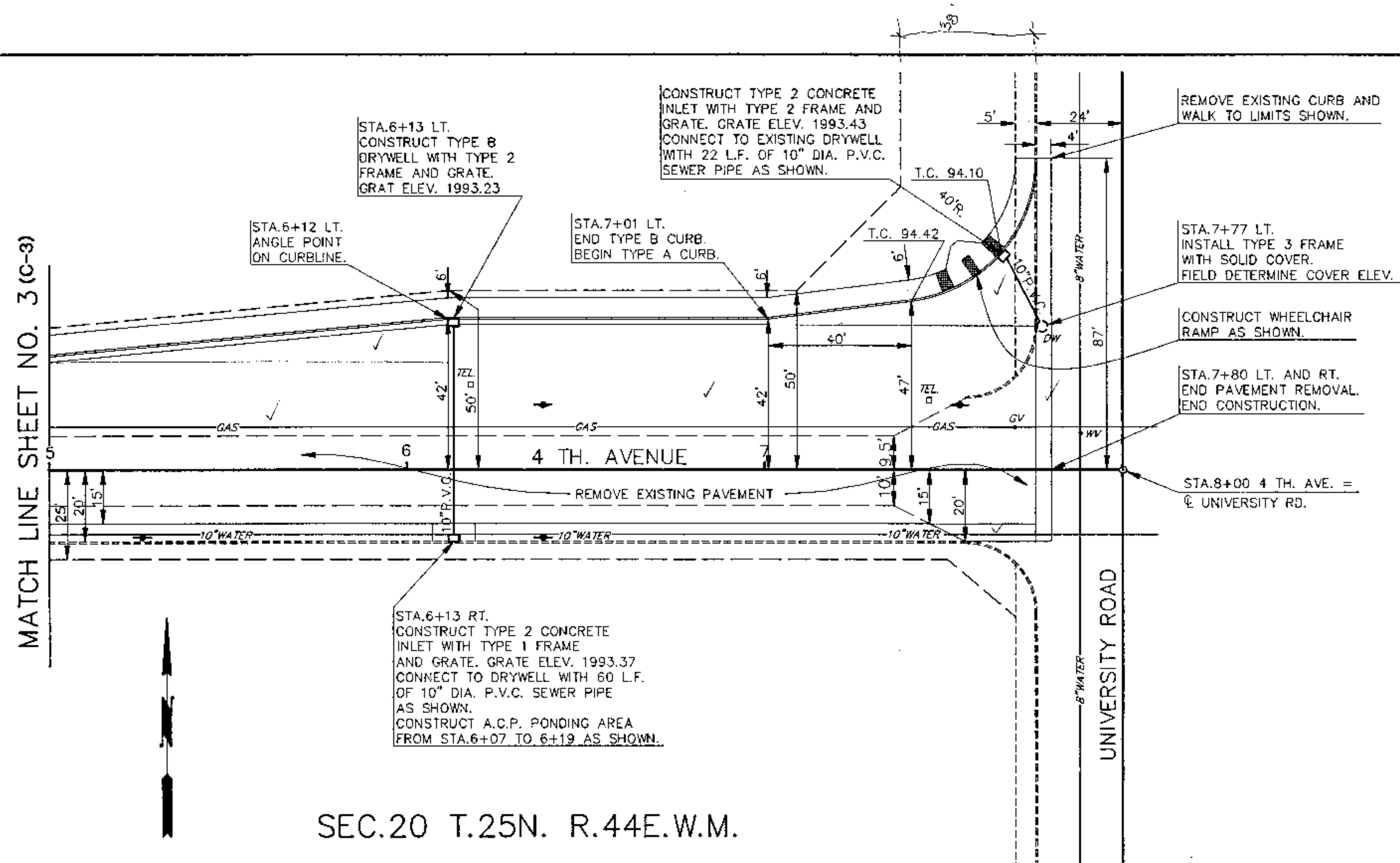
SEC.20 T.25N. R.44E.W.M.



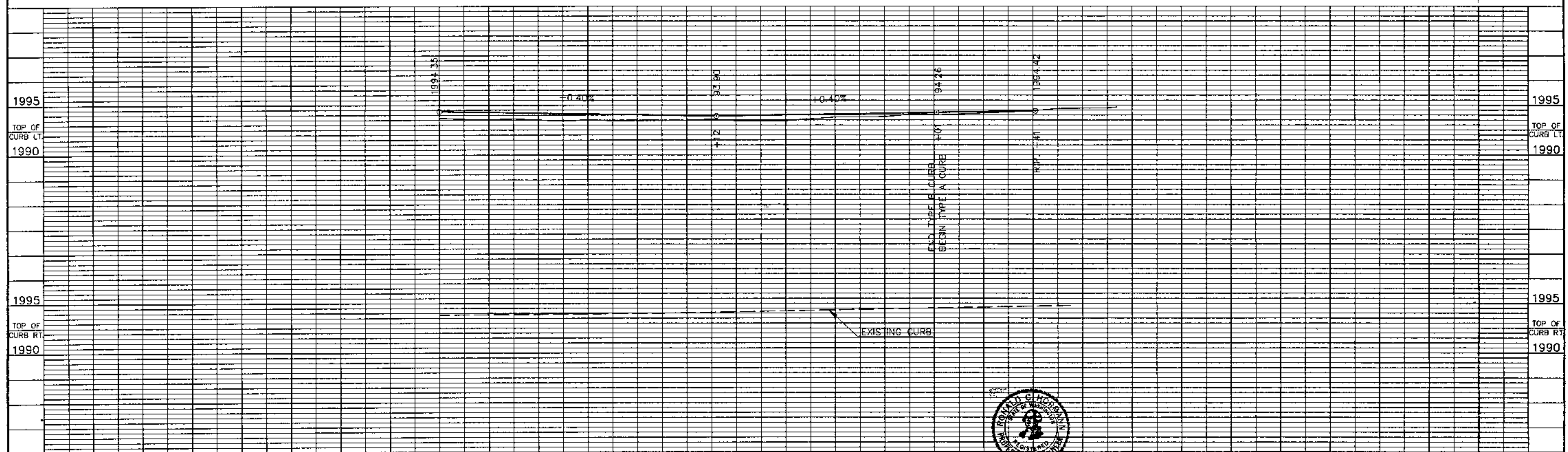
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No.	Date	By	Ckd.	Appr.	Revision					

CALL
BEFORE YOU DIG
456-8000
ONE CALL NUMBER
48 HR. NOTICE REQUIRED

MATCH LINE SHEET NO. 3 (0-3)



SEC. 20 T. 25N. R. 44E. W.M.



1	4/29	B.J.	B.J.	R.W.	COMPLETE PLAN AND PROFILE
No.	Date	By	Ckd	Appr.	Revision

Drawn By:
GREG WELLS
Designed By:
BUD JONES
Checked By:
BUD JONES
Date:
5/2/88
5/2/88
5/2/88

SCALE
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

OFFICE OF
SPOKANE COUNTY ENGINEER
N. 811 JEFFERSON ST.
SPOKANE, WA 99201
456-3800

APPROVED: *[Signature]*
COUNTY ENGINEER
Date: 5-5-88

COUNTY ROAD PROJECT NO. 2261
FOURTH AVENUE
FROM 700' WEST TO UNIVERSITY ROAD
FOR SPOKANE TRANSIT AUTHORITY

COUNTY ROAD INFORMATION, ELEVATIONS



TAN BOYLE HEYAMOTO ARCHITECTS IN ASSOCIATION WITH KIRKWOOD ARCHITECTS AND ASSOCIATES
SUITE 715 SOUTH 8 WASHINGTON
SPOKANE, WASHINGTON 99204
(509) 838-7474

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VALLEY TRANSIT CENTER
FOURTH AVENUE & UNIVERSITY ROAD
SPOKANE, WASHINGTON



PROJECT NO. 2703
DRAWN: JF
CHECKED: JF
DATE: 9/16/88

C-4



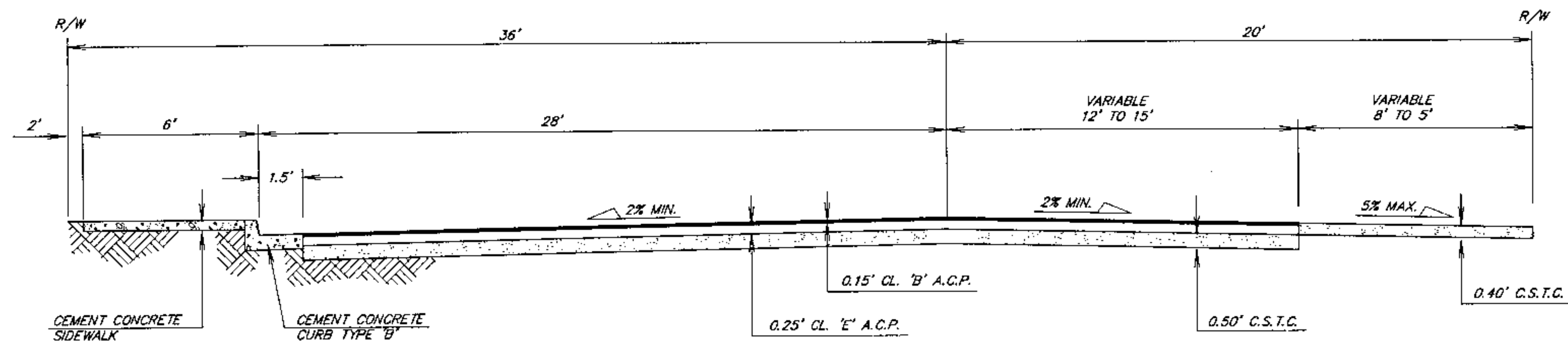
TAN BOYLE HEYANOTO ARCHITECTS IN ASSOCIATION WITH KIRKWOOD ARCHITECTS AND ASSOCIATES
NORTH 117 1/2 HOWARD STREET
SPOKANE, WASHINGTON 99201
(509) 456-8648

SPOKANE TRANSIT AUTHORITY
VALLEY TRANSIT CENTER
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SPOKANE, WASHINGTON

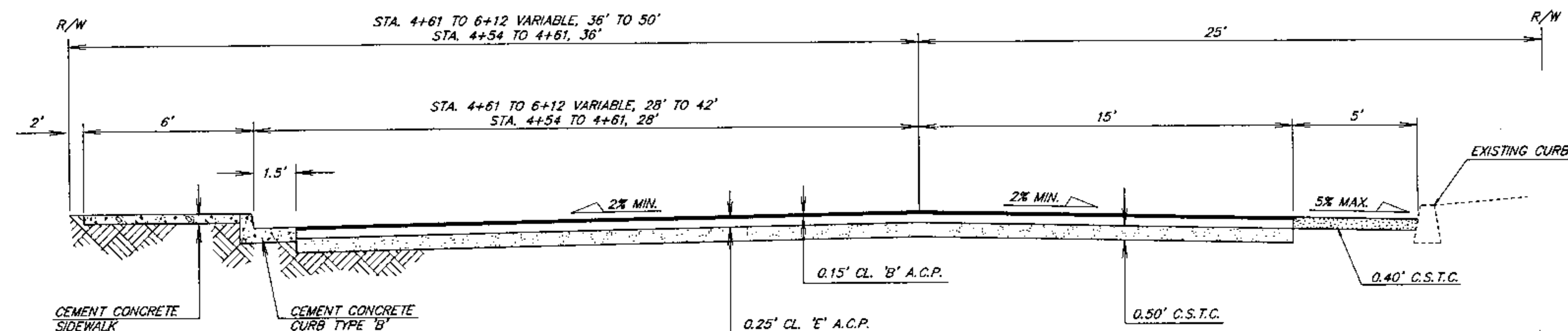


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CHECKED JF
DATE 9/16/88

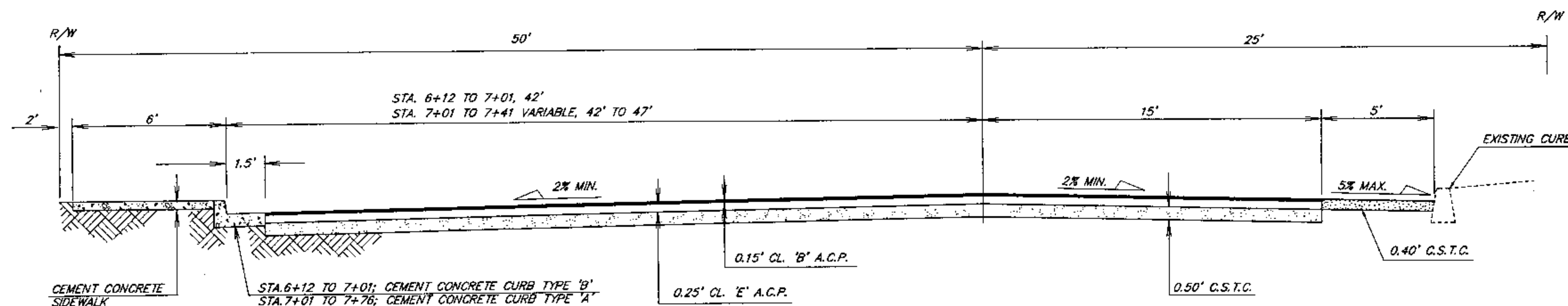
C-5



STA. 1+25.6 TO 4+54



STA. 4+54 TO 6+12



STA. 6+12 TO 7+76



CALL
BEFORE YOU DIG
456-8000
ONE CALL NUMBER
48 HR. NOTICE REQUIRED

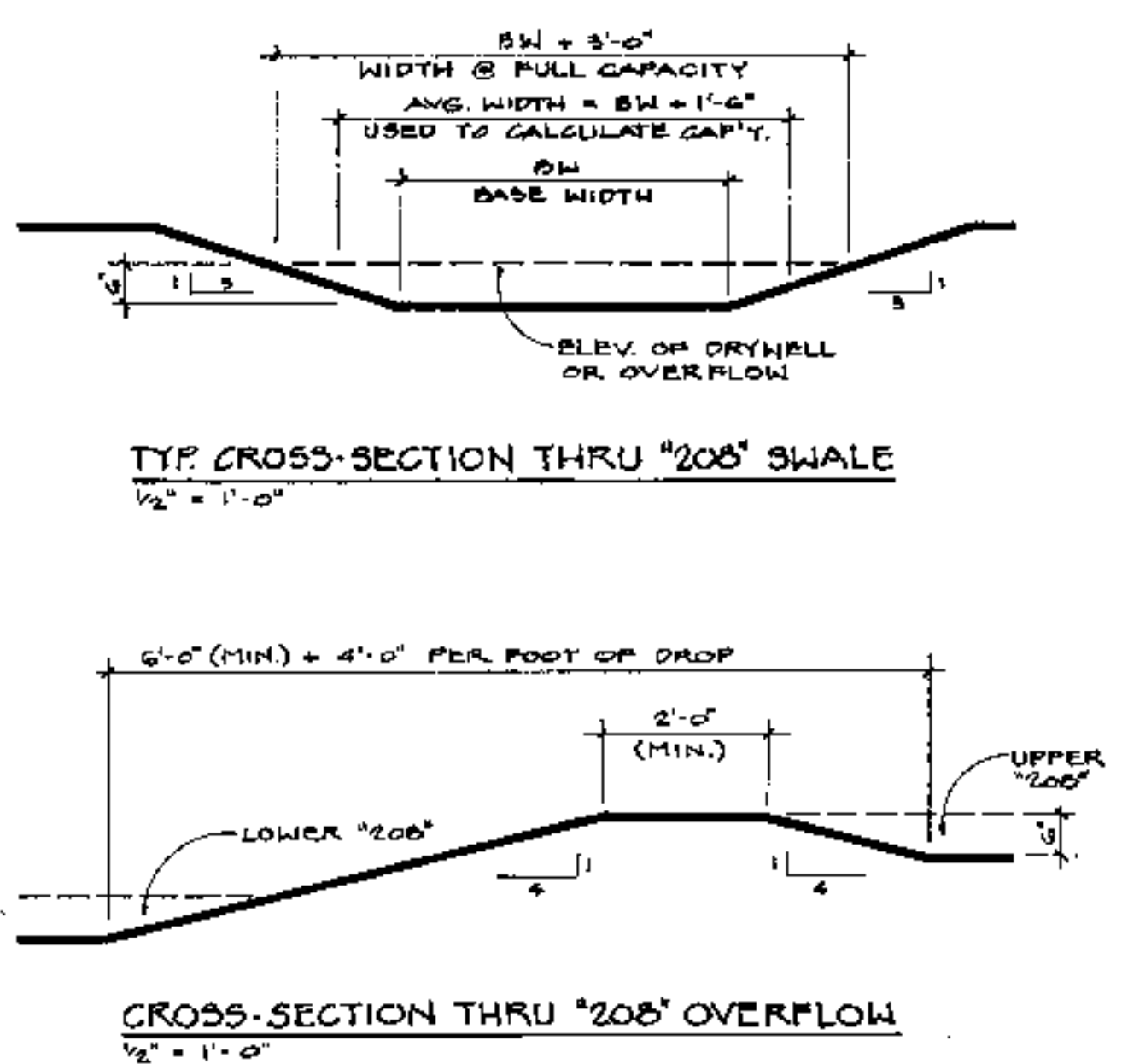
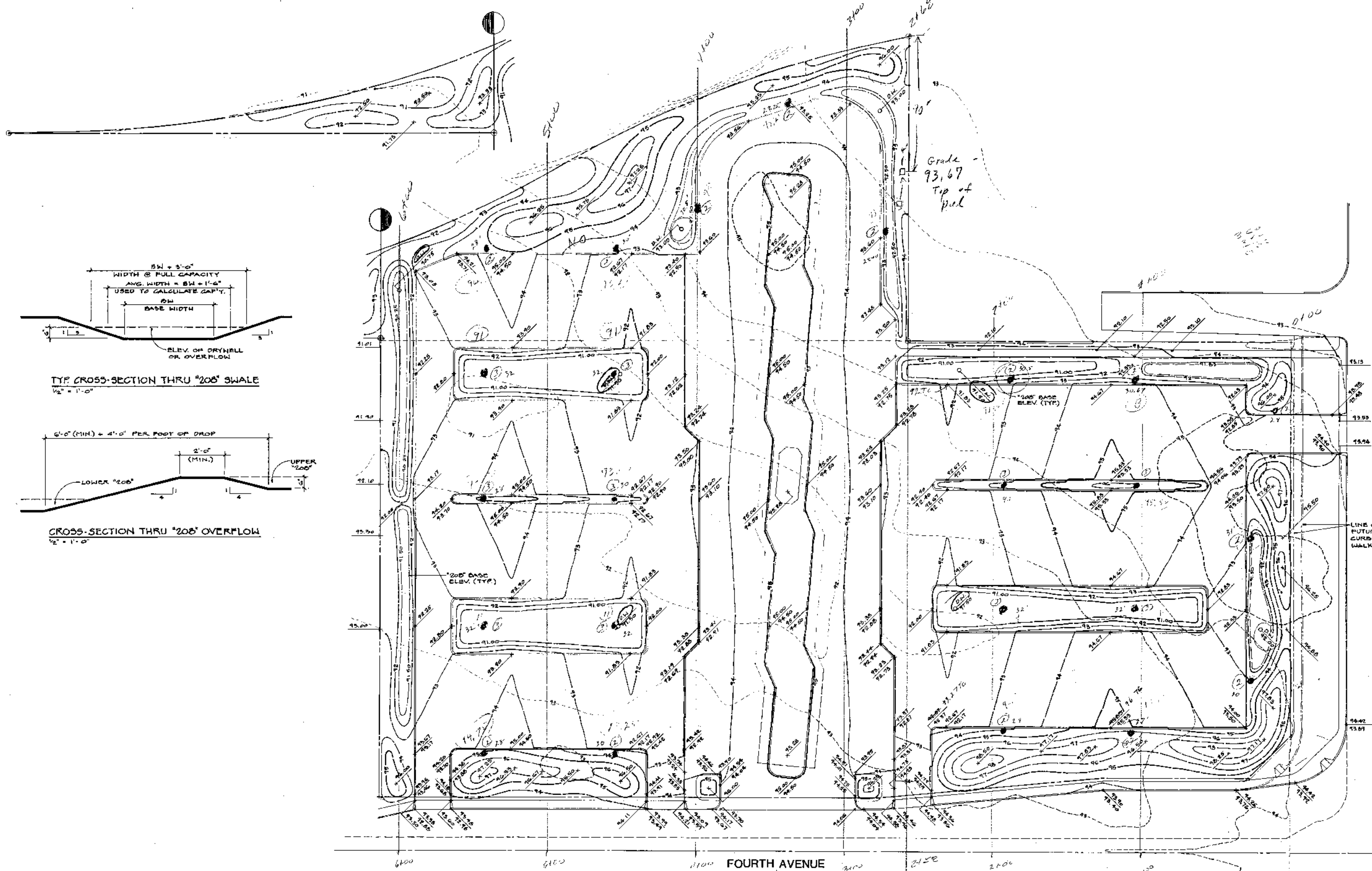
No.	Date	By	Chd.	Appr.	Revision
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2					
3					
4					
5					
6					
7					
8					
9					
10					

Drawn By: <i>[Signature]</i>	Date: 5/88
Designed By: <i>[Signature]</i>	5/88
Checked By: <i>[Signature]</i>	5/88

SCALE	HORIZONTAL: NONE	VERTICAL: NONE

OFFICE OF SPOKANE COUNTY ENGINEER N. 811 JEFFERSON ST. SPOKANE, WA. 99201 456-3800	APPROVED <i>[Signature]</i> COUNTY ENGINEER Date: 5-5-88

COUNTY ROAD PROJECT No. 2261 4TH AVENUE 700' WEST OF UNIVERSITY RD. TO UNIVERSITY RD.

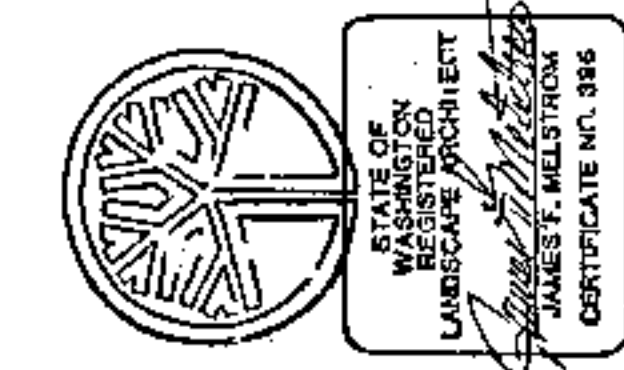


NORTH

GRADING PLAN

1" EQUALS 30'

UNIVERSITY ROAD



TAN BOYLE HEYAMOTO ARCHITECTS IN ASSOCIATION WITH KIRKWOOD ARCHITECTS AND ASSOCIATES
 NORTH 117 1/2 HOWARD STREET
 SPOKANE, WASHINGTON 99201
 (509) 458-5848

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VALLEY TRANSIT CENTER
 FORTH AVENUE & UNIVERSITY ROAD
 SPOKANE, WASHINGTON

PROJECT NO. 8763
 DRAWN JM
 CHECKED JM
 DATE 9/18/88

A-4



TAN BOYLE HEYAMOTO ARCHITECTS IN ASSOCIATION WITH KIRKWOOD ARCHITECTS AND ASSOCIATES
SUITE 715 SOUTH 9 WASHINGTON
SPokane, Washington 99204
(509) 838-7474

DESIGN DEVELOPMENT SUBMITTAL
SPOKANE TRANSIT AUTHORITY
VALLEY TRANSIT CENTER
FOURTH AVENUE & UNIVERSITY ROAD
SPOKANE, WASHINGTON



PROJECT NO. 8704
DRAWN: MAM
CHECKED: SRR
DATE: 9/16/88

A-5

LEGAL DESCRIPTION

Those portions of Tracts 227 and 228, Opportunity, according to plat recorded in Volume "K" of Plats, Page 20, Spokane County, Washington, described as follows:

Beginning at the southeast corner of the north 320 feet of said Tract 227; thence S87°09'37"W, parallel to the north line of said Tract, 327.21 feet to the west line of the east half of said Tract; thence N02°31'44"W, 0.48 feet to the south line of deeded Second Avenue; thence N87°10'09"E, along said south line, 7.45 feet to the point of curve of a curve left whose radius is 800.00 feet; thence along the arc of said curve left a distance of 462.59 feet and through a central angle of 29°28'57" to the beginning of a reverse curve to the right whose radius is 800.00 feet; thence along the arc of said curve right 249.58 feet and through a central angle of 17°52'31" to a point which is 300 feet west of the east line of said Tract 228; thence S02°30'55"E, parallel to said east line, 205.37 feet to the south line of the north half of said Tract; thence N87°09'53"E along said south line, 380.00 feet to the west right-of-way line of University Road; thence S02°30'53"E, along said west line, 234.64 feet; thence S42°19'38"W, 15.60 feet to the north right-of-way line of Fourth Avenue; thence along said north line the following three courses: 1) S87°10'09"W, 174.00 feet; 2) S82°20'28"W, 71.29 feet; and 3) S87°10'09"W, 378.37 feet to the west line of said Tract 228; thence N02°31'27"W, 313.17 feet to the Point of Beginning.

Containing 252,550 square feet.

22 28. Sheet A-5, Flagpole Locations: Relocate flagpole and provide concrete base and lighting as indicated on Attachment No. 4. App #2, Pg 6

UTILITY COMPANIES

ELECTRIC & WATER
MODERN ELECTRIC WATER CO.
N. 904 PINES RD.
SPOKANE, WA PHONE 928-4540

GAS
WASHINGTON WATER POWER CO.
E. 1411 MISSION AVENUE
SPOKANE, WA PHONE 468-0500

TELEPHONE
PACIFIC NORTHWEST BELL
1309 N. 1st AVENUE
SPOKANE, WA

CUT OUT EXIST WALK AND CURB DROP.
REPLACE W/ NEW WALK AND CURB.
CUT OUT EXIST WALK AND CURB.
REPLACE W/ NEW WALK AND CURB DROP.

UNIVERSITY ROAD

LIMITS OF CONSTRUCTION

LIMITS OF CONSTRUCTION

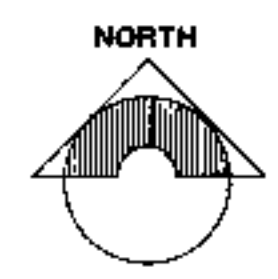
W/REPORT

LEGEND:

- BOLLARDS
- LIGHT STANDARDS - PEDESTRIAN
- LIGHT STANDARDS - PARKING
- LIGHT STANDARDS - PARKING PERIMETER
- EXPANSION JOINTS
- TREE PLANTED IN GRATE
- BICYCLE RACK
- BORING LOCATION AND DESIGNATION (REFER TO SHEET A-2)
- SAW CUT JOINTS

SITE PLAN

1" = 30' - 0"



NOTE:

WIDENING OF FOURTH AVENUE IS TO BE INCLUDED AS PART OF THE SCOPE OF THIS PROJECT WORK TO BE PERFORMED IN ACCORDANCE WITH DRAWINGS ISSUED BY OFFICE OF SPOKANE COUNTY ENGINEER, INCLUDED HEREIN AS SHEETS C-3 TO C-6, AND IN ACCORDANCE WITH NOTATIONS AND DETAILS CONTAINED ELSEWHERE IN THESE DOCUMENTS. REFER TO PROJECT MANUAL APPENDIX FOR SPECIFICATION.

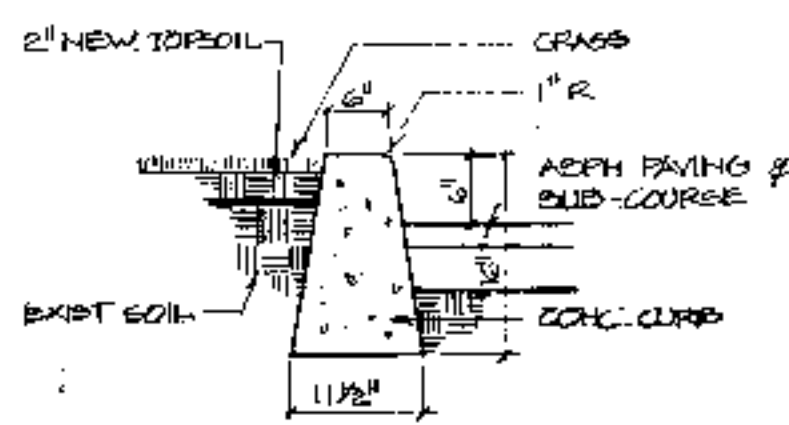
EXIST. POWER POLE
END OF EXISTING CURB
NEW LIMIT OF PAVING
EXISTING CURB TO REMAIN

ALL TRADES - SEE SHEET L-5 FOR ADDITIONAL WORK AT THIS AREA

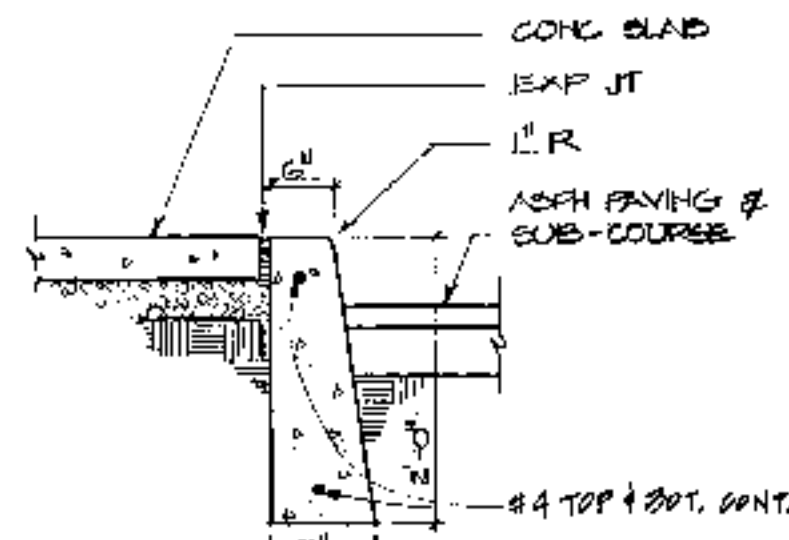
LIMITS OF CONSTRUCTION

W/REPORT

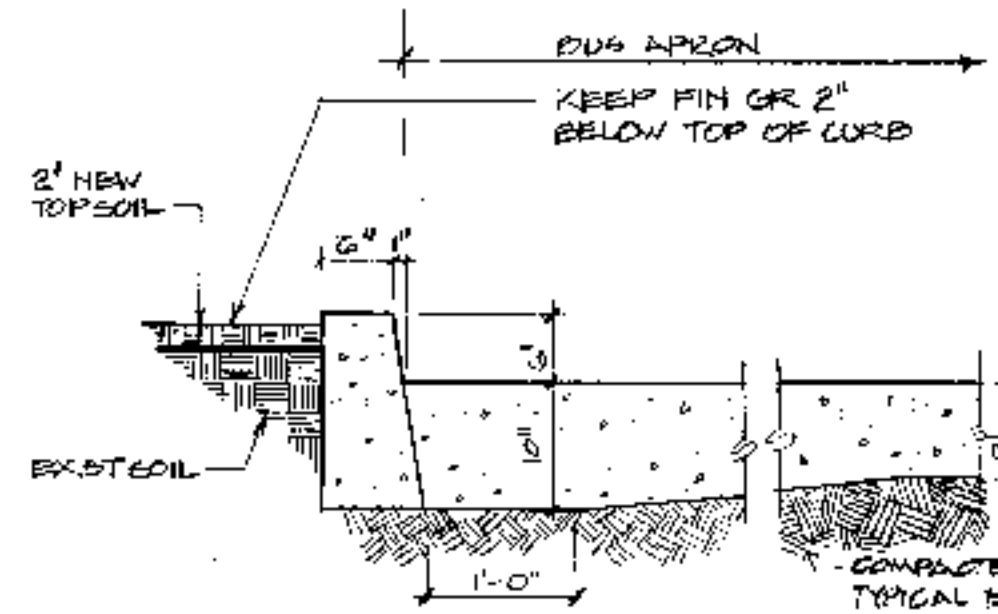




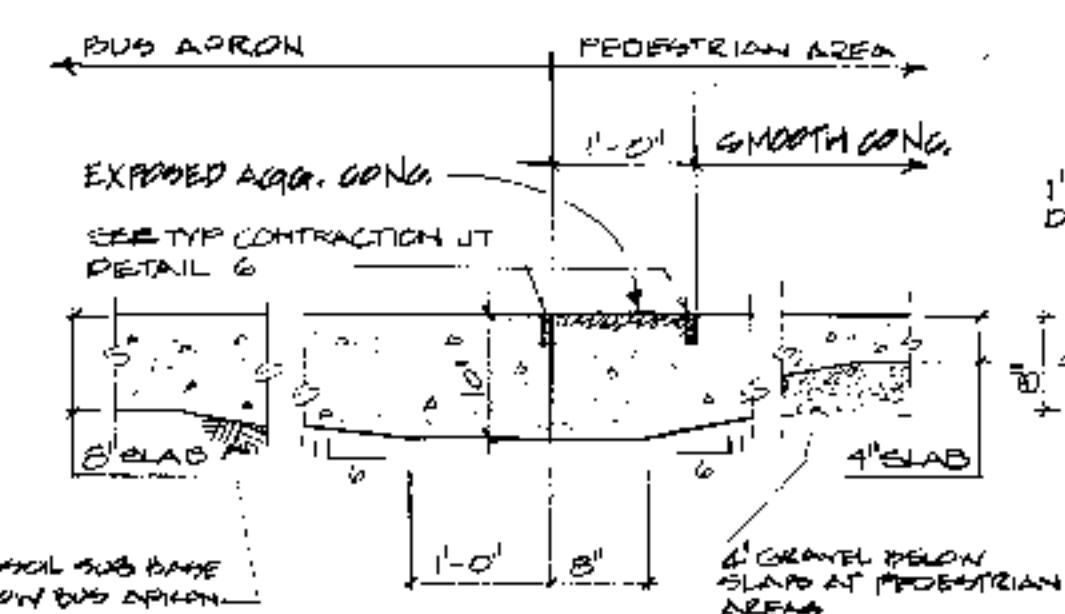
1 CURB DETAIL
3/4" = 1'-0"



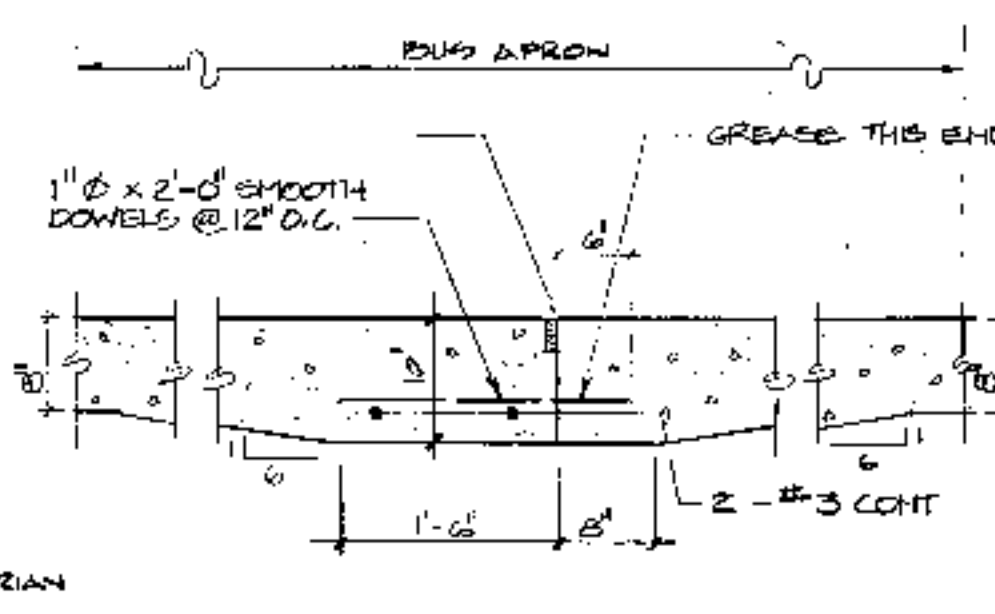
2 CURB DETAIL
3/4" = 1'-0"



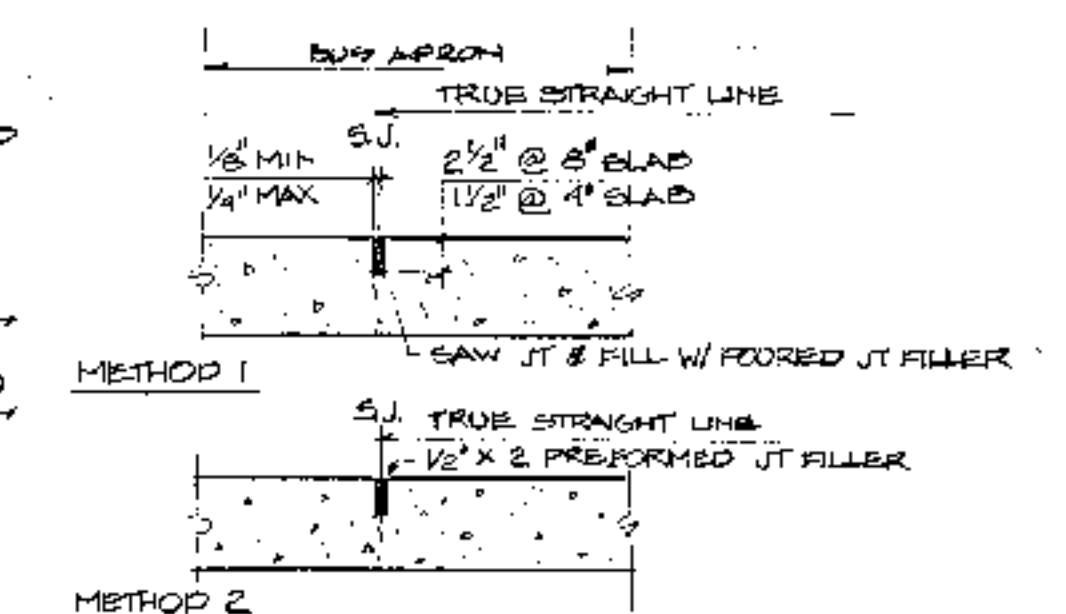
3 CURB DETAIL
3/4" = 1'-0"



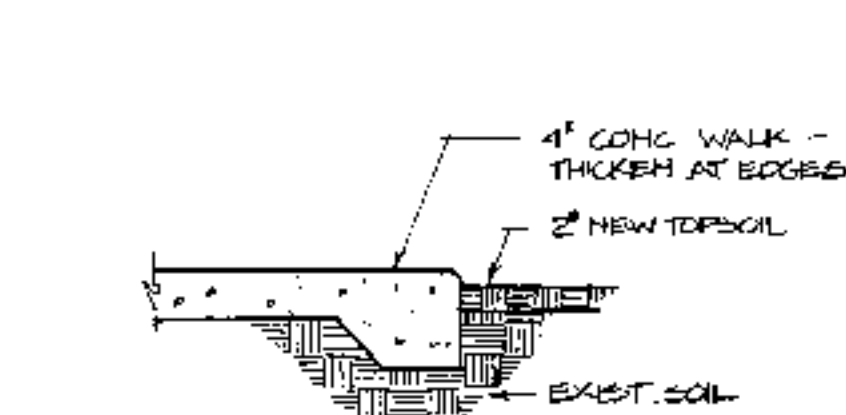
4 CONSTRUCTION JOINT
3/4" = 1'-0"



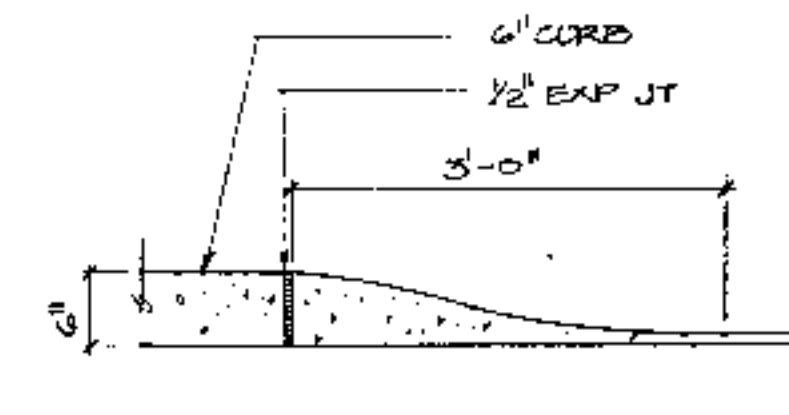
5 TYP TRANSVERSE CONSTR JT
3/4" = 1'-0"



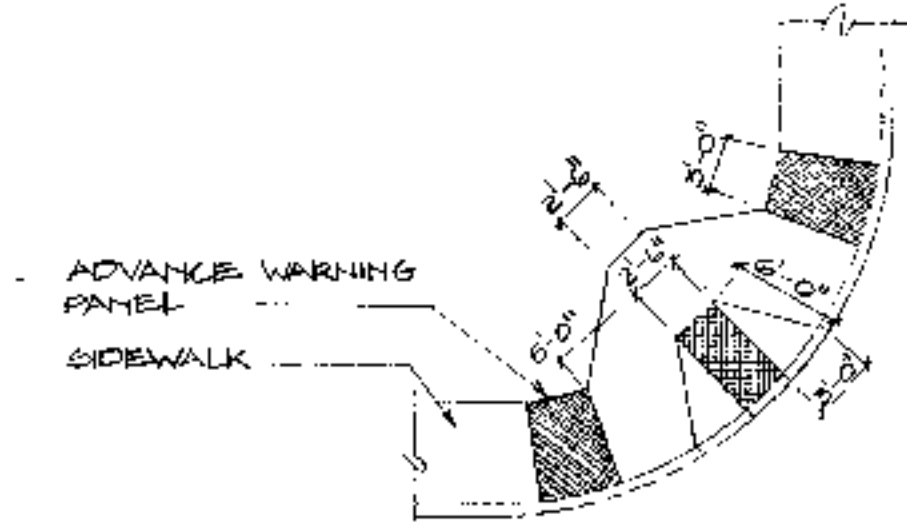
6 TYP CONTROL JOINT
NO SCALE



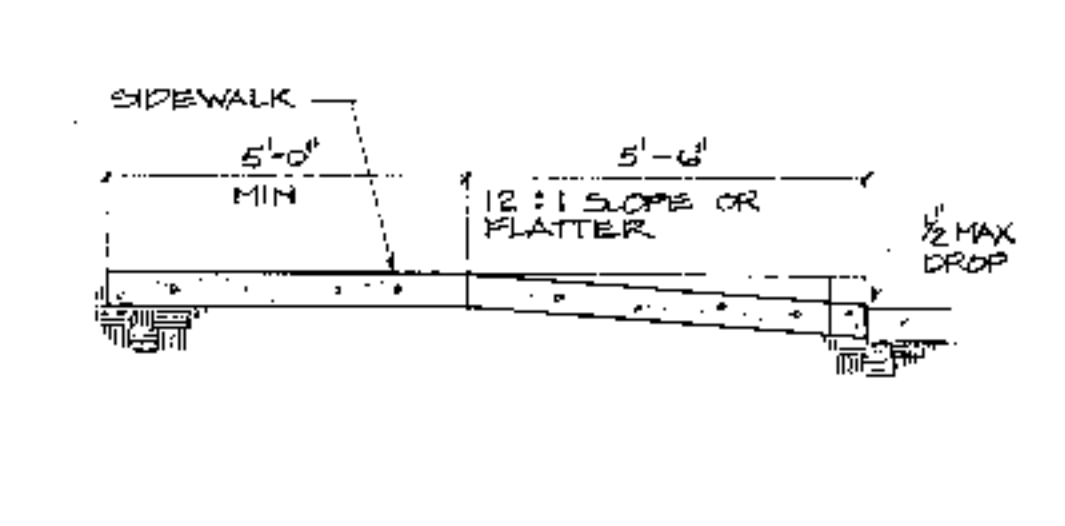
7 SIDEWALK EDGE
3/4" = 1'-0"



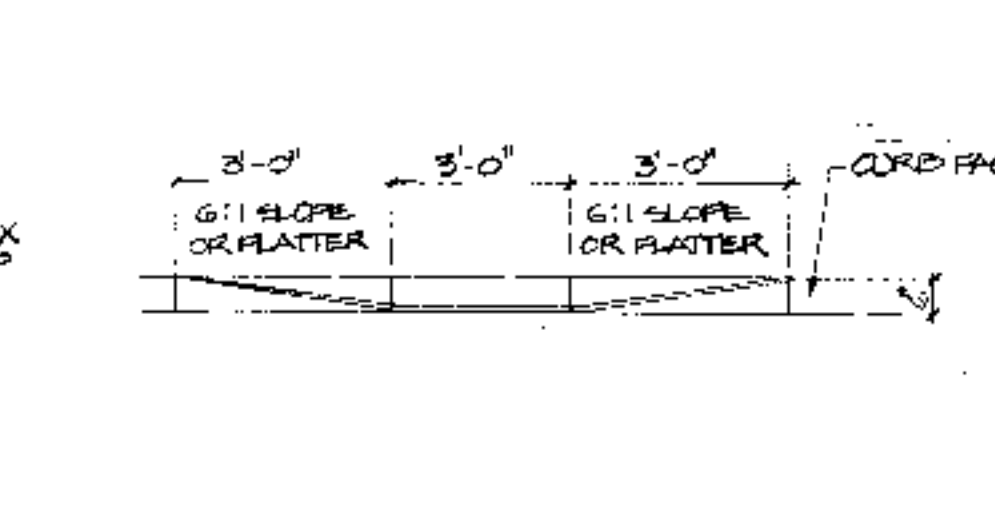
8 DRIVE APRON
3/4" = 1'-0"



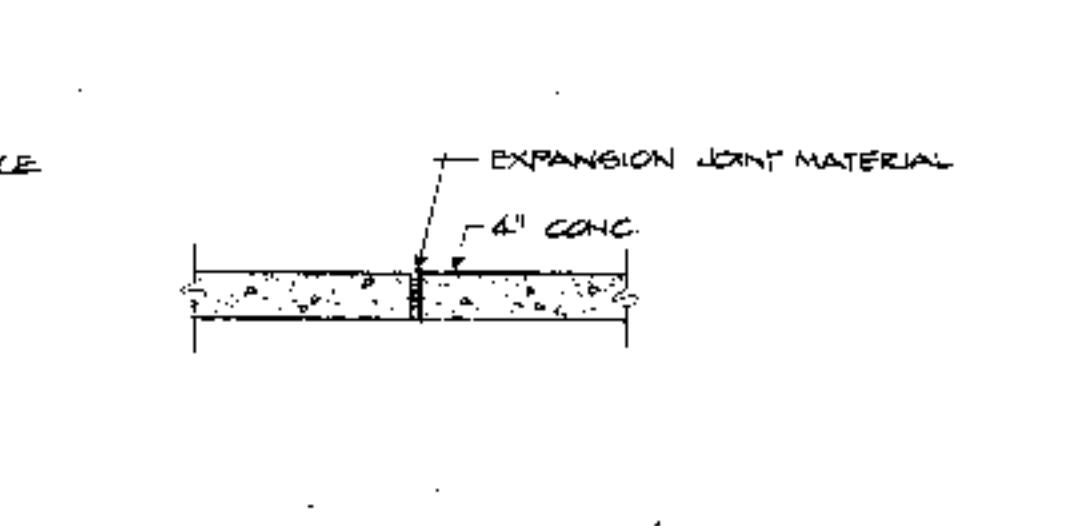
9 WHEELCHAIR RAMP PLAN
1" = 10'-0"



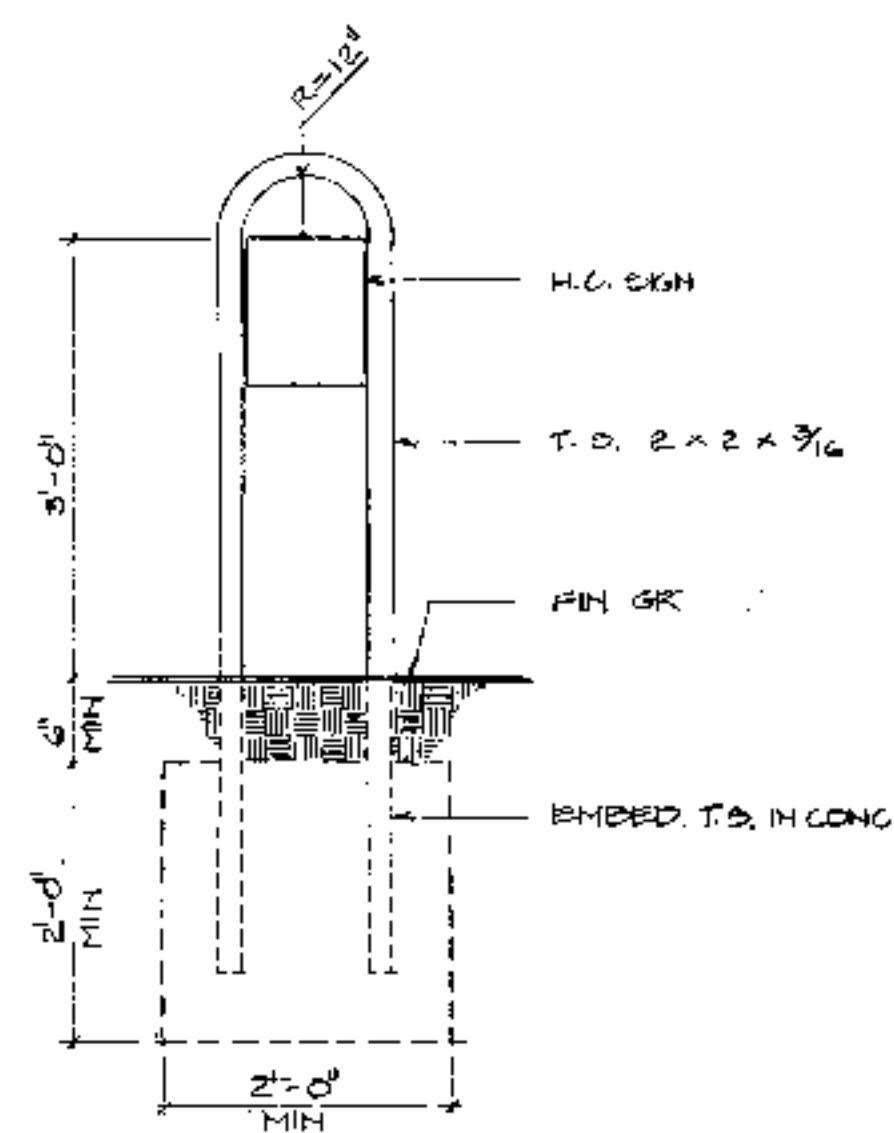
10 WHEELCHAIR RAMP SECTION
3/8" = 1'-0"



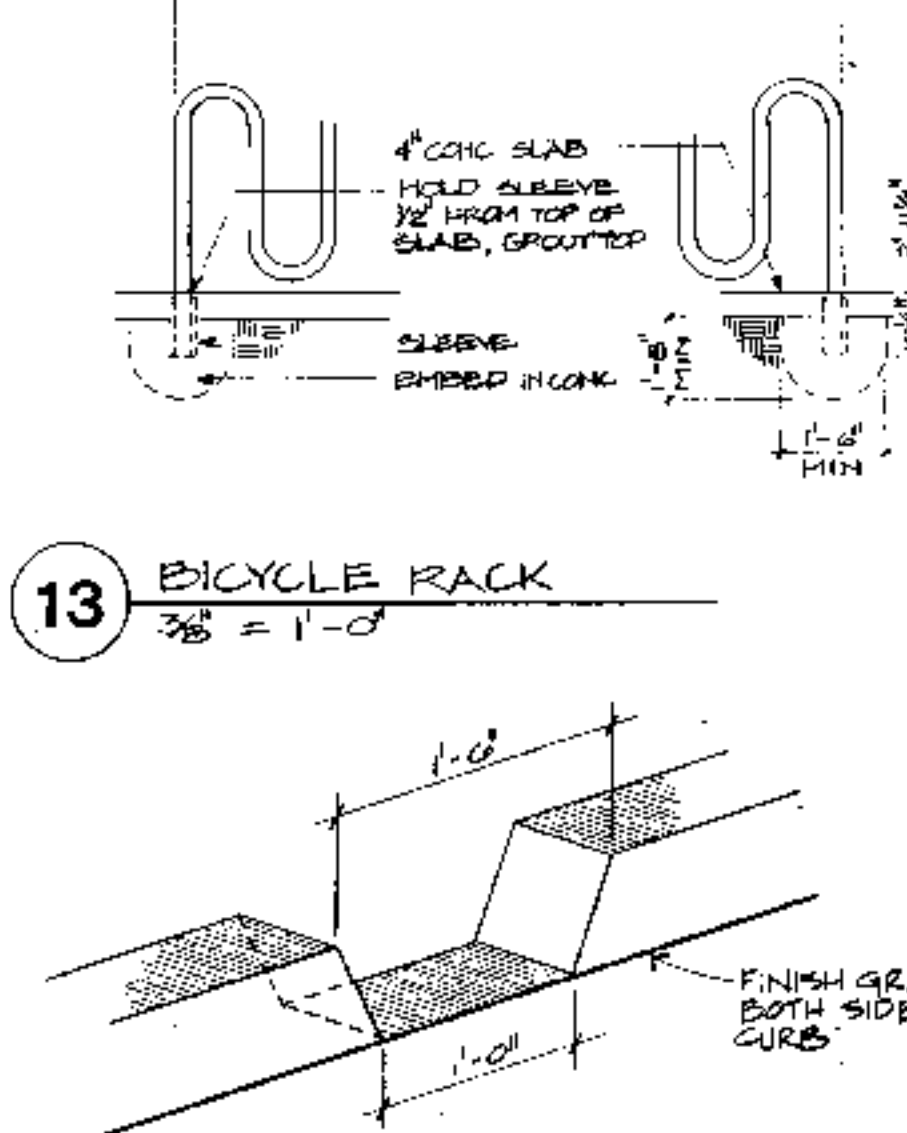
11 WHEELCHAIR RAMP ELEVATION
3/8" = 1'-0"



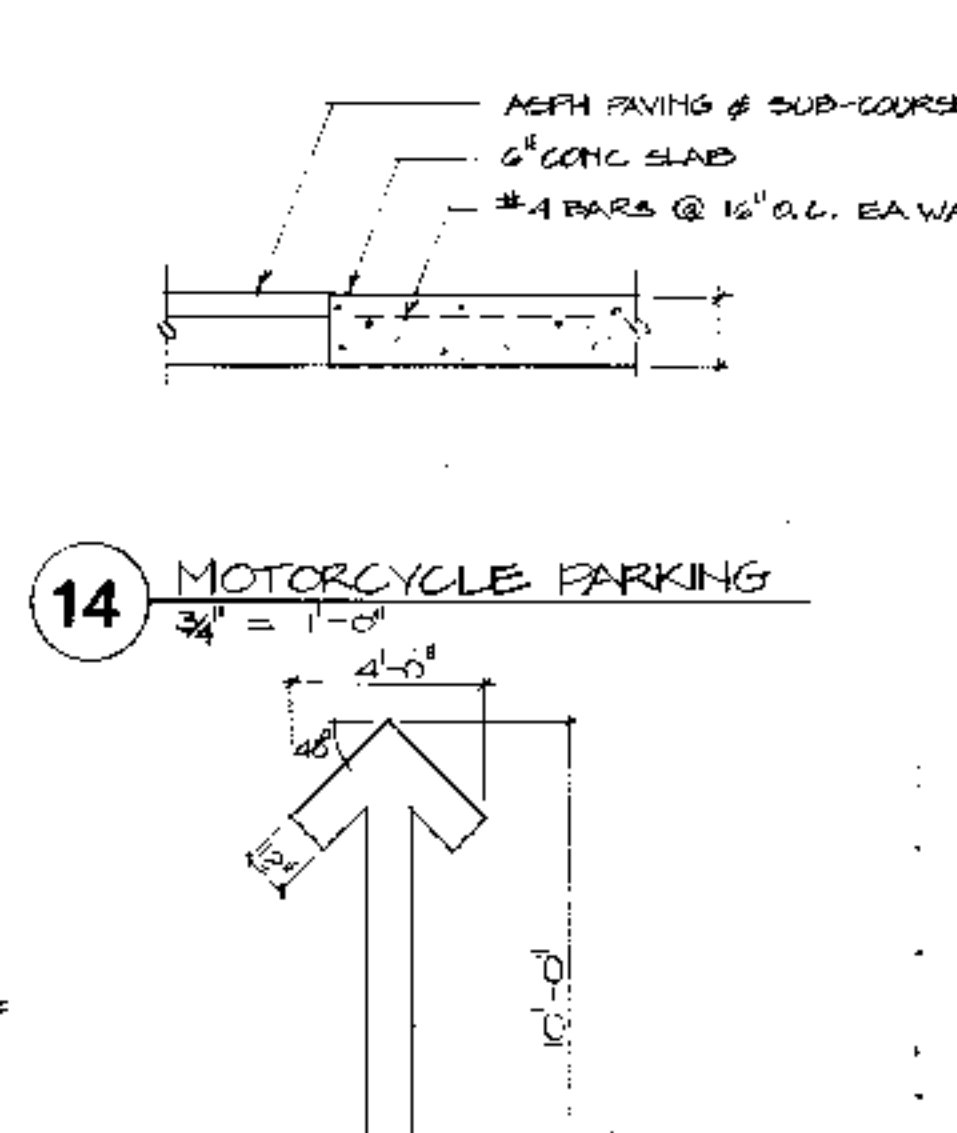
12 SIDEWALK EXPANSION JOINT
3/4" = 1'-0"



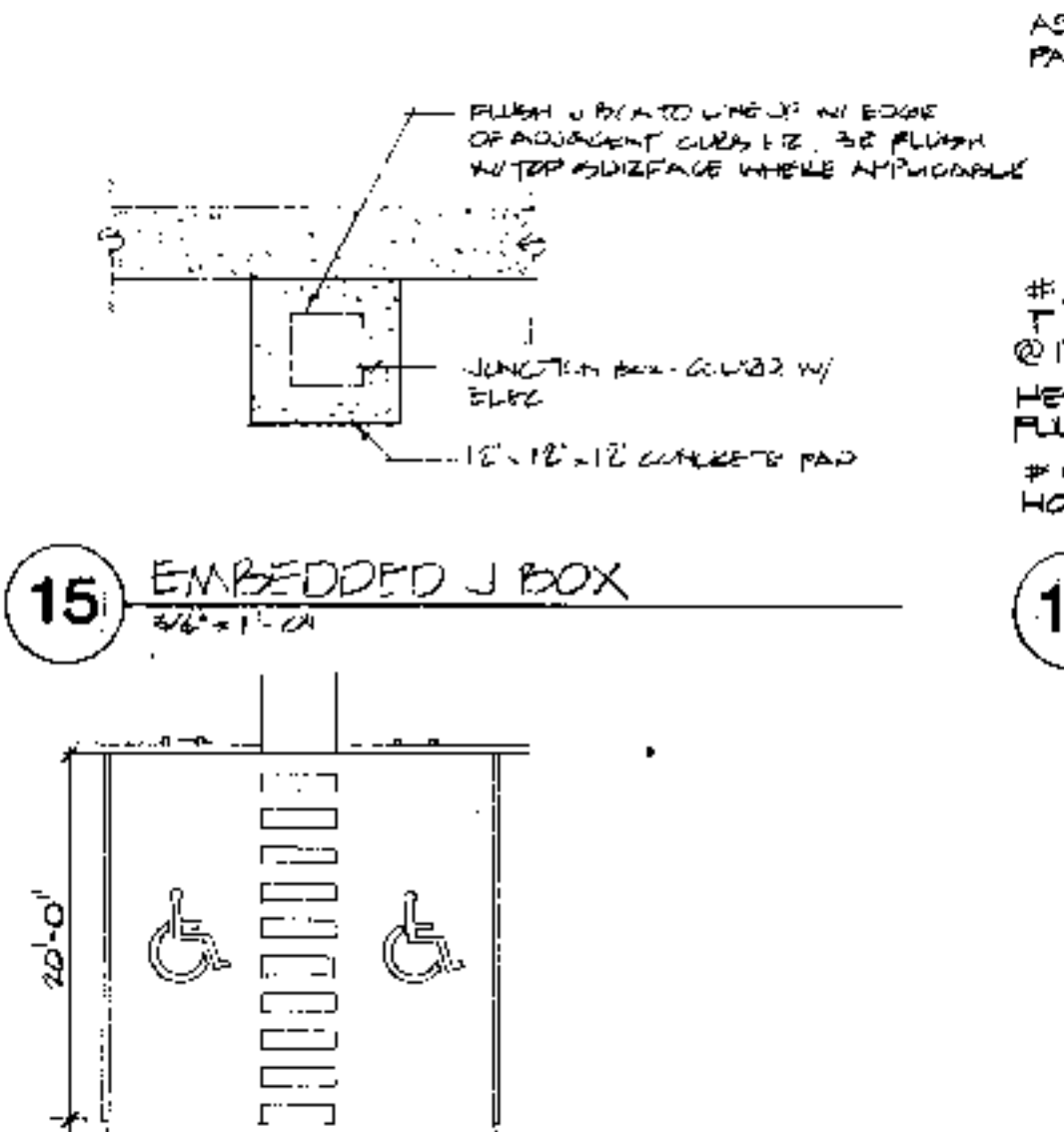
13 BICYCLE RACK
3/8" = 1'-0"



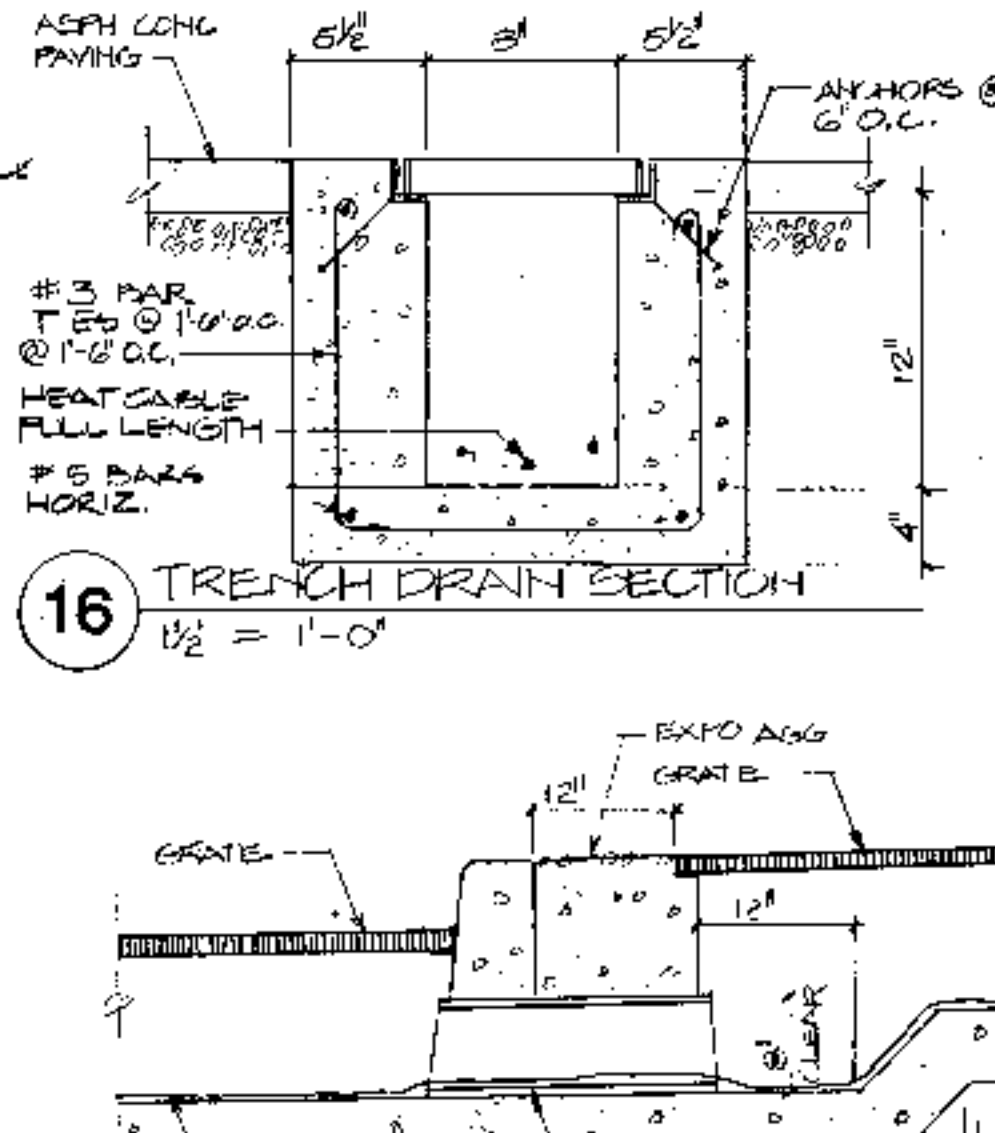
14 MOTORCYCLE PARKING
1" = 1'-0"



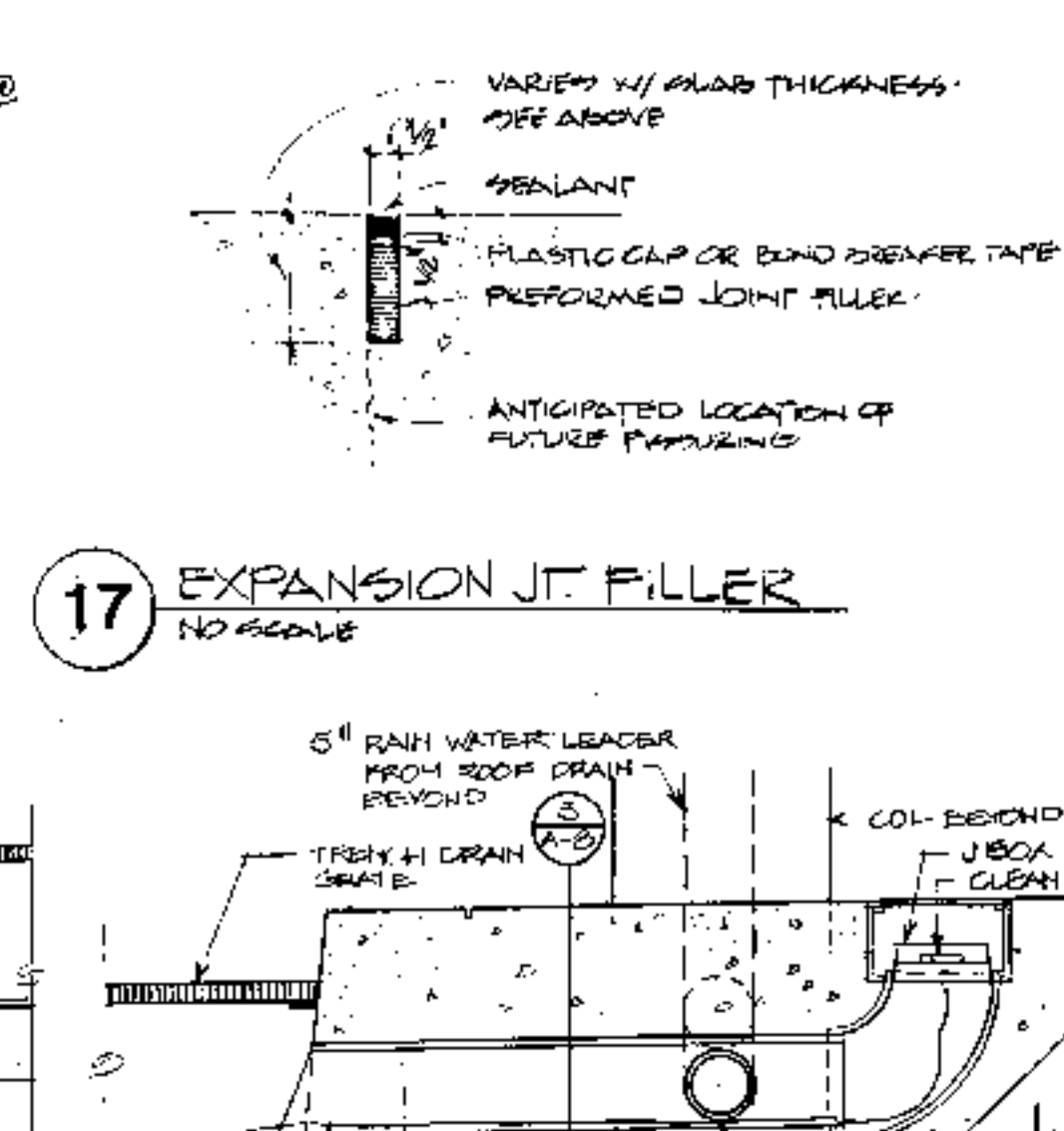
15 EMBEDDED J BOX
3/4" = 1'-0"



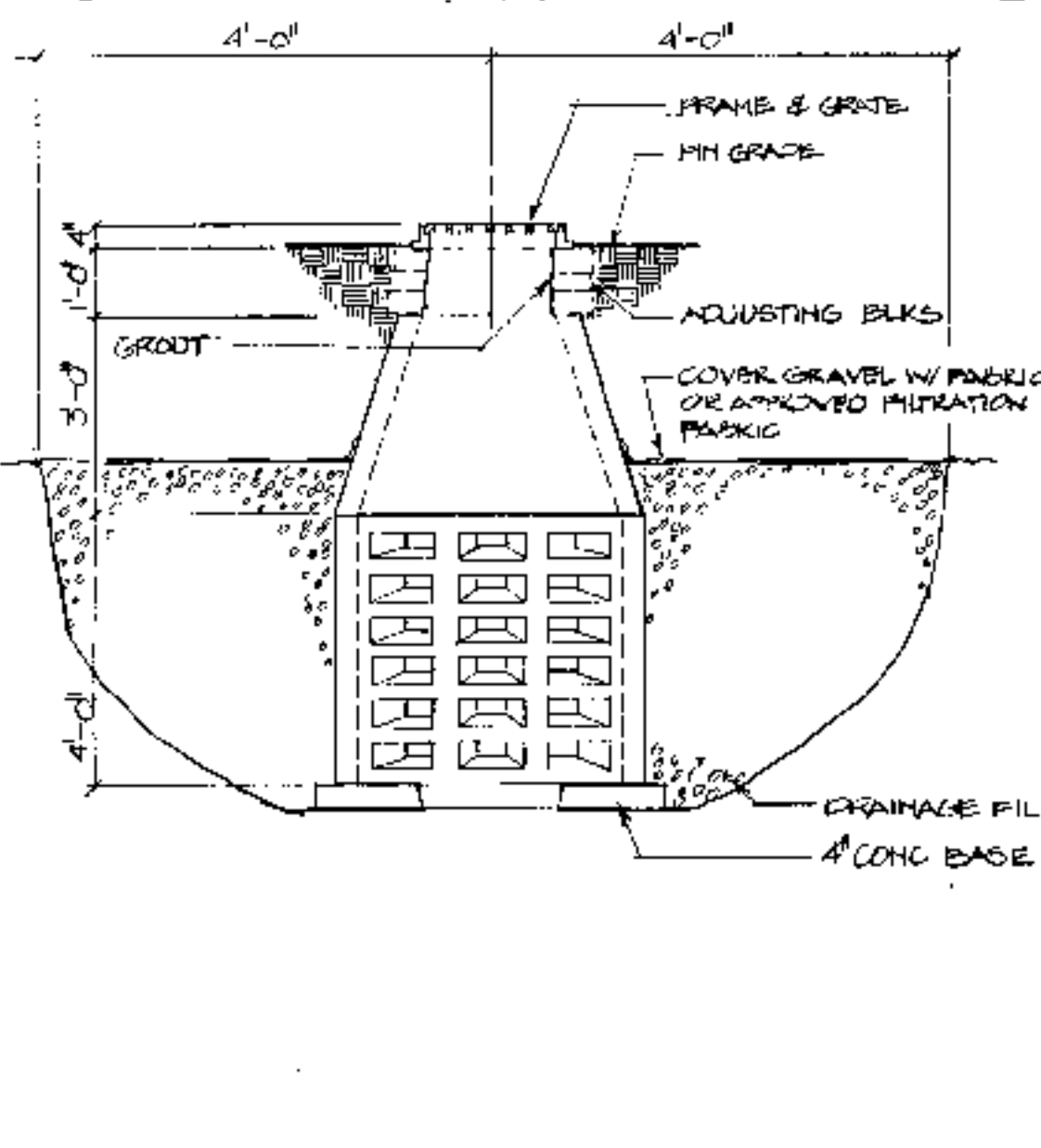
16 TRENCH DRAIN SECTION
1/2" = 1'-0"



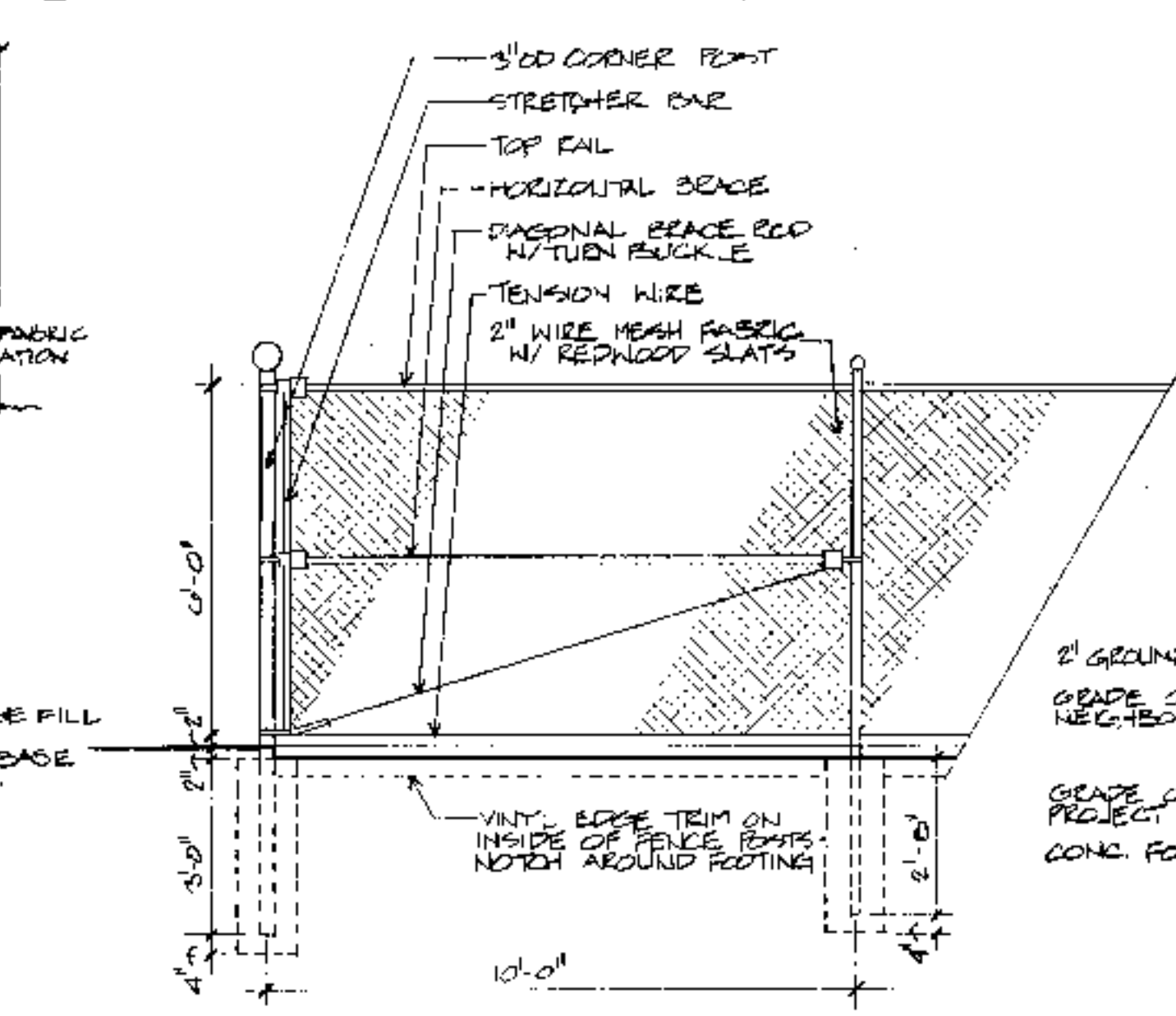
17 EXPANSION JT. FILLER
NO SCALE



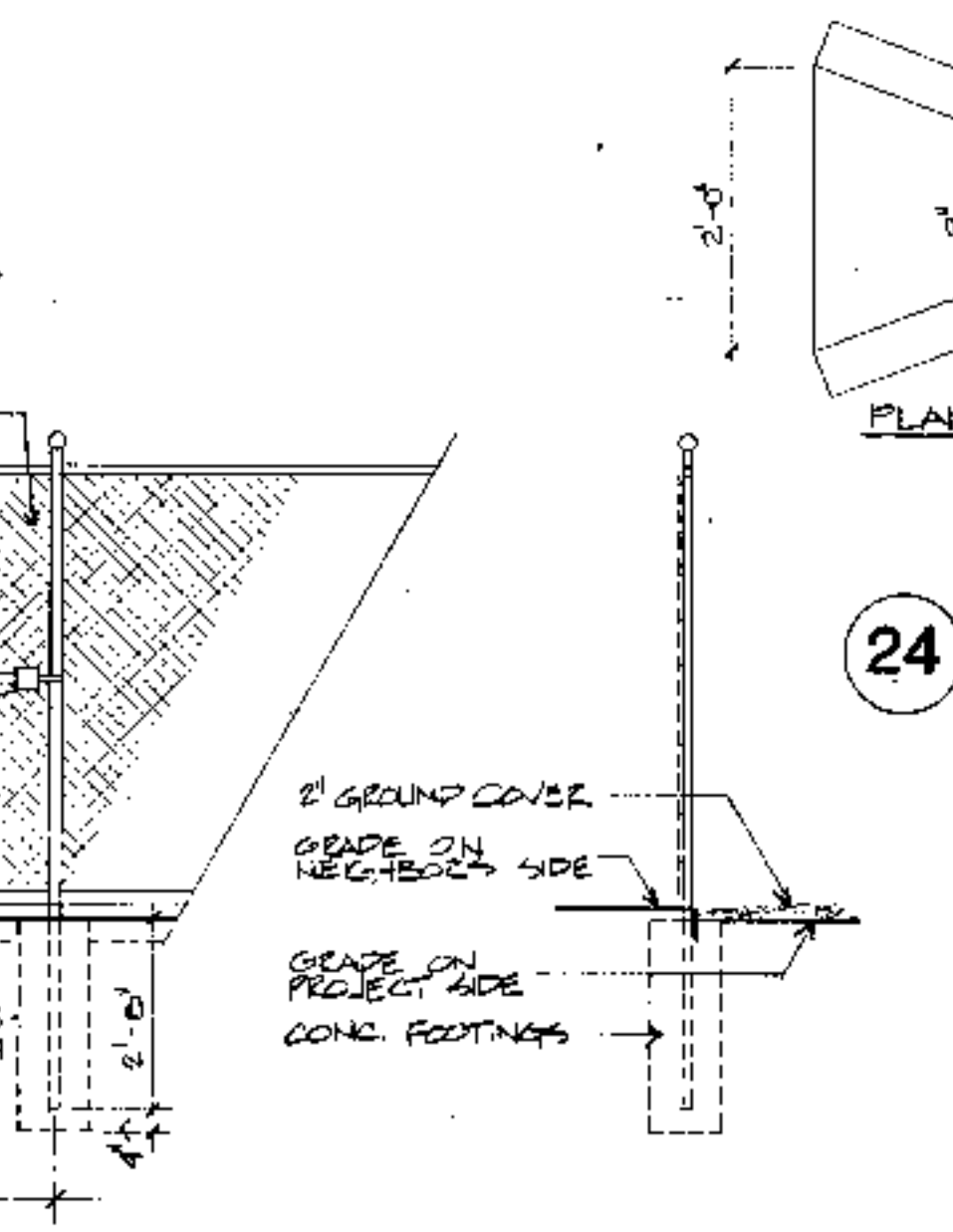
18 HANDICAPPED PARKING SIGN
3/4" = 1'-0"



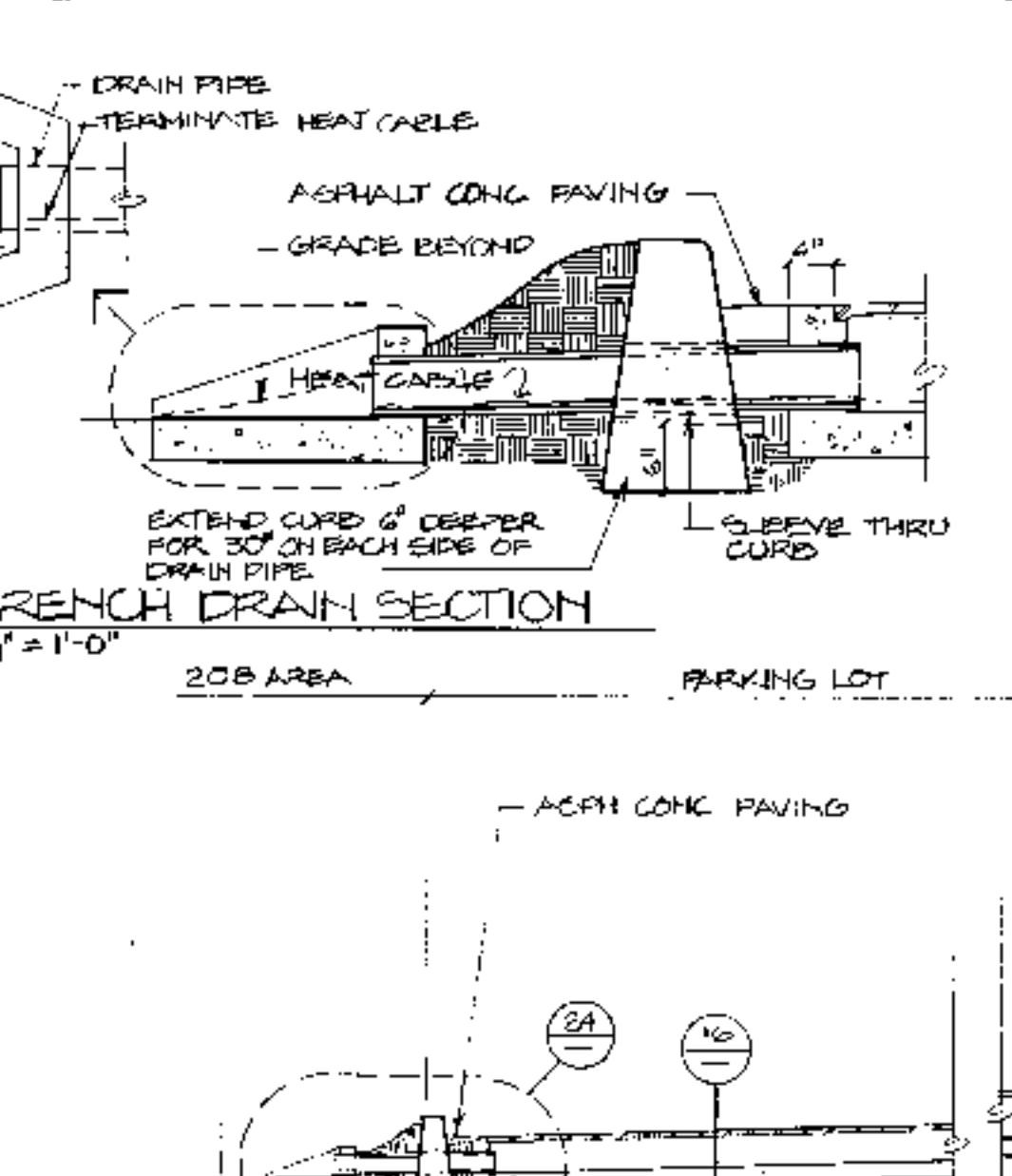
19 2'0" CURB OPENING DETAIL
1" = 1'-0"



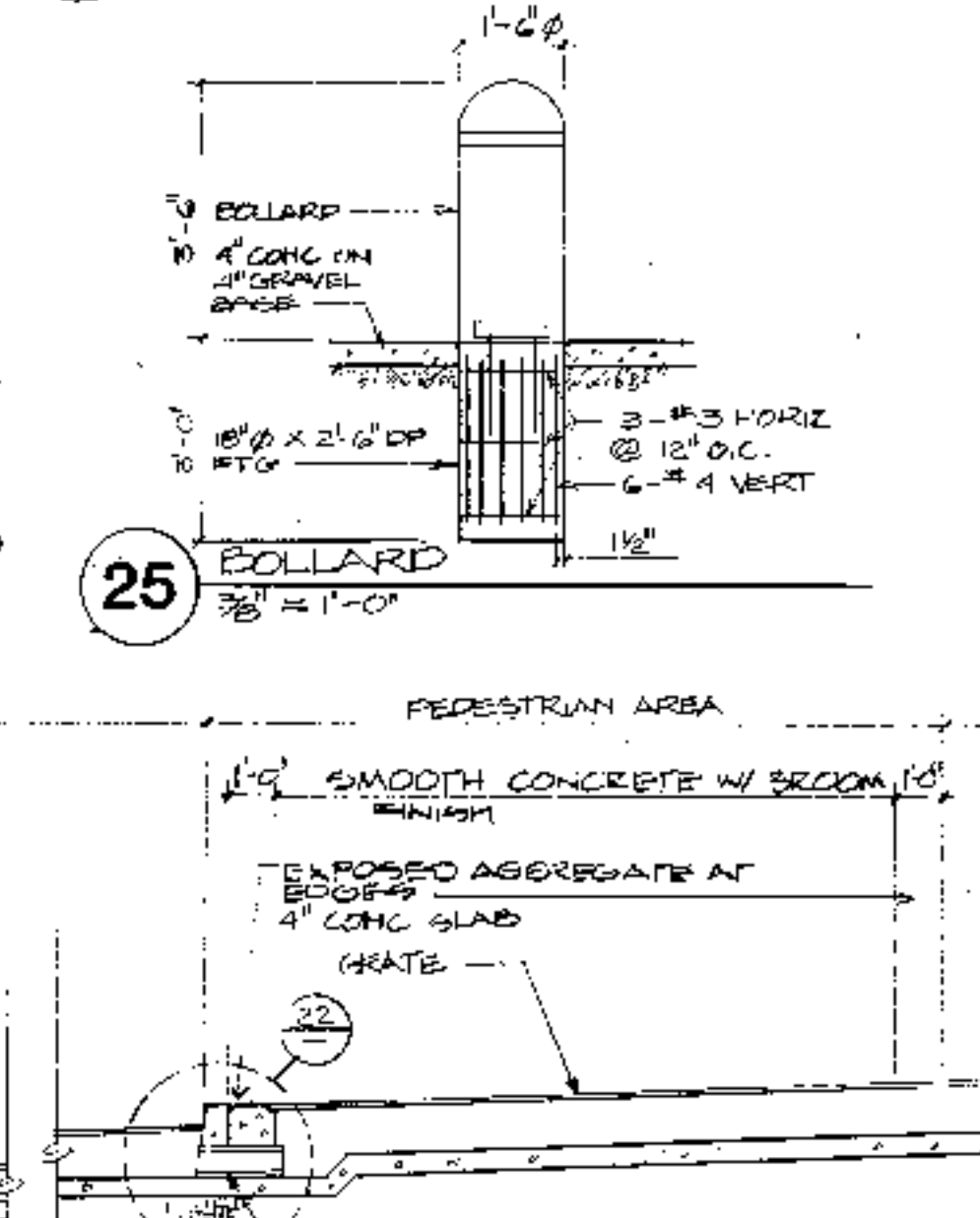
20 PAVEMENT MARKING
1/4" = 1'-0"



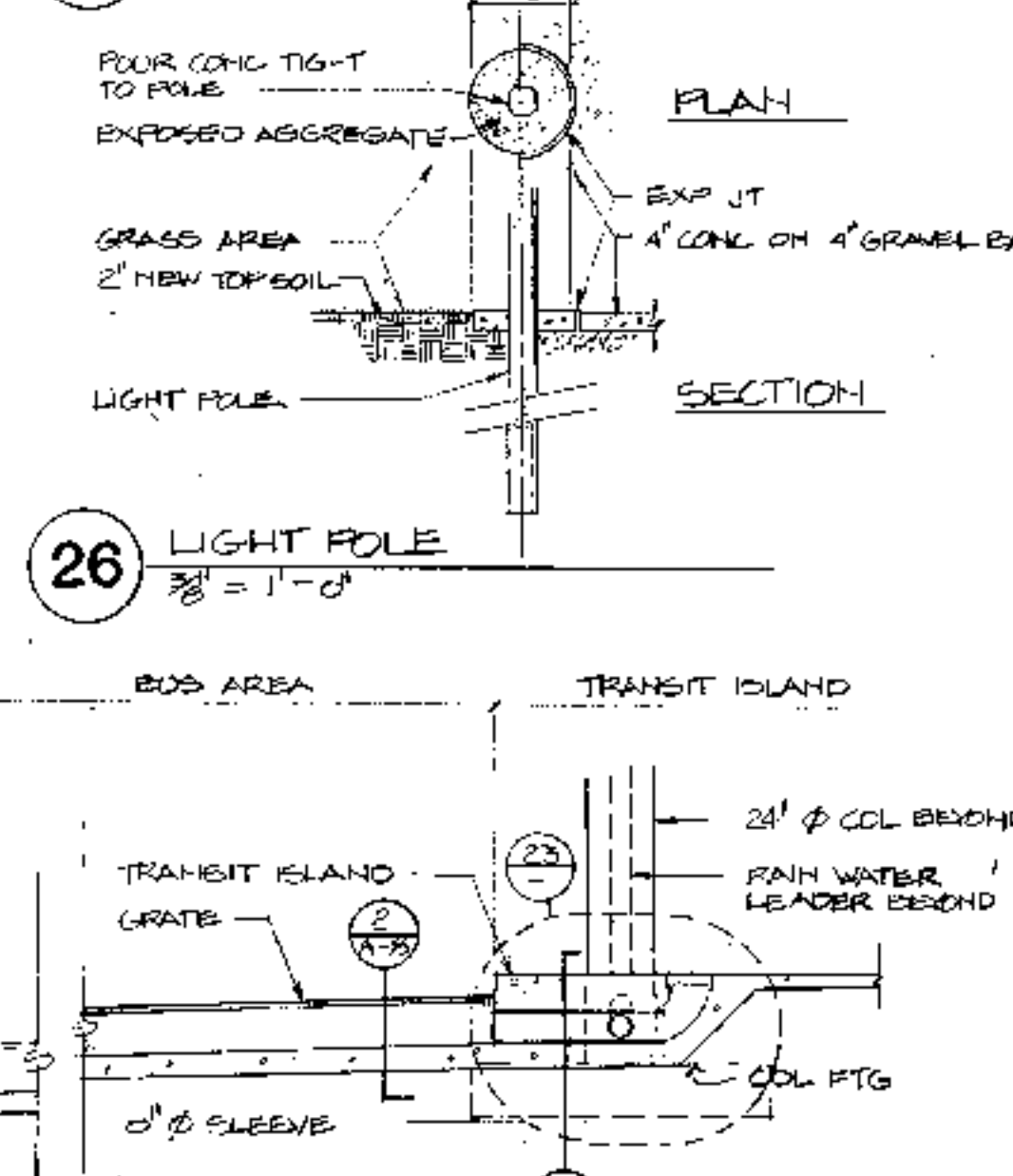
21 ACCESSIBLE PARKING SPACE
NTS



22 TRENCH DRAIN SECTION
3/4" = 1'-0"



23 TRENCH DRAIN SECTION
3/4" = 1'-0"



24 TRENCH DRAIN SECTION
3/4" = 1'-0"

25 BOLLARD
3/8" = 1'-0"

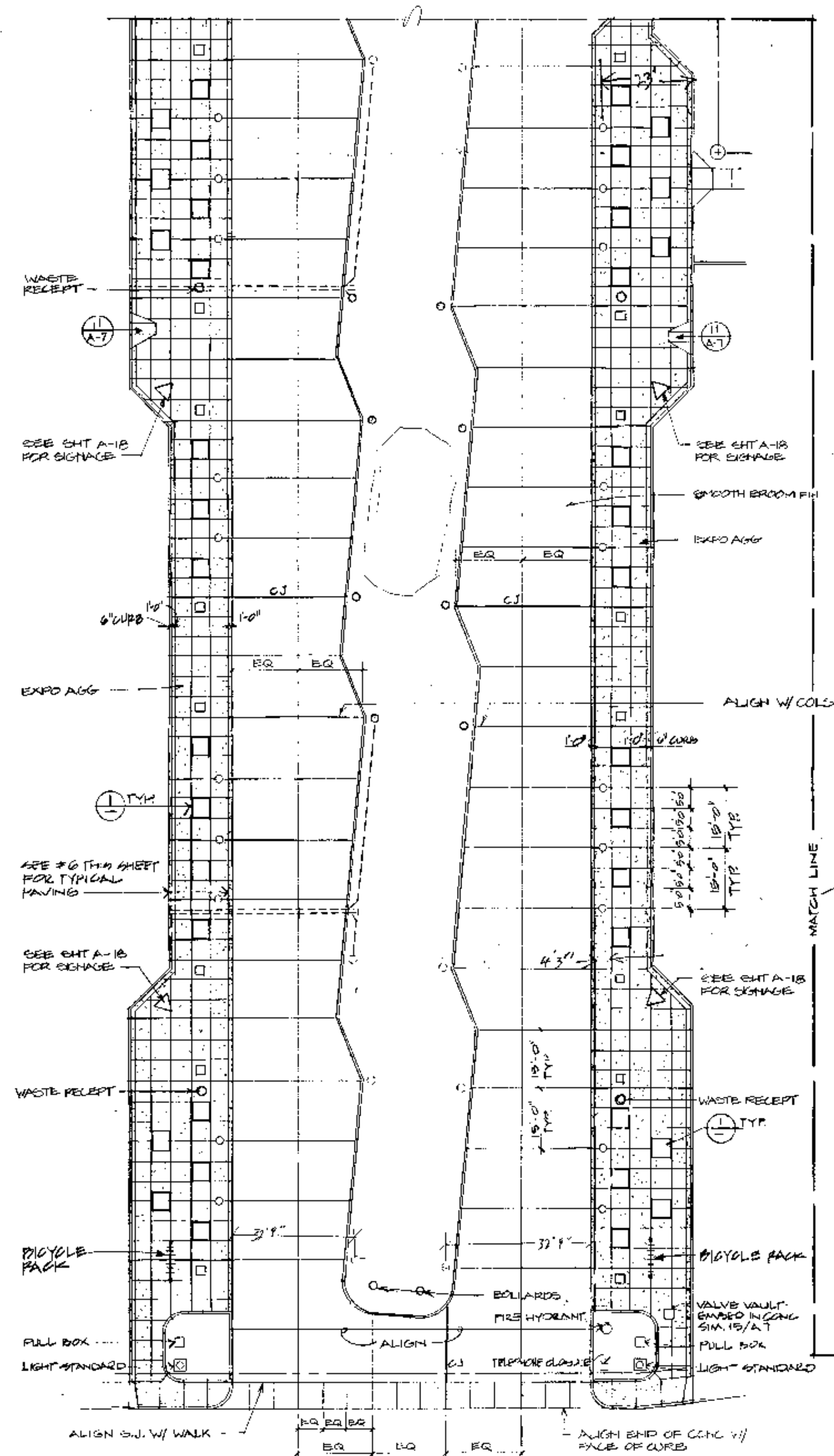
26 LIGHT POLE
3/8" = 1'-0"

27 DRYWELL
3/8" = 1'-0"

28 CHAIN LINK FENCE - ELEVATION
3/8" = 1'-0"

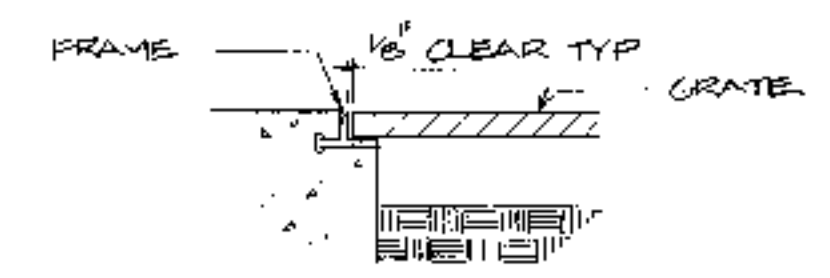
29 TRENCH DRAIN LONGITUDINAL SECTION
1/4" = 1'-0"

30 TRENCH DRAIN LONGITUDINAL SECTION
1/4" = 1'-0"

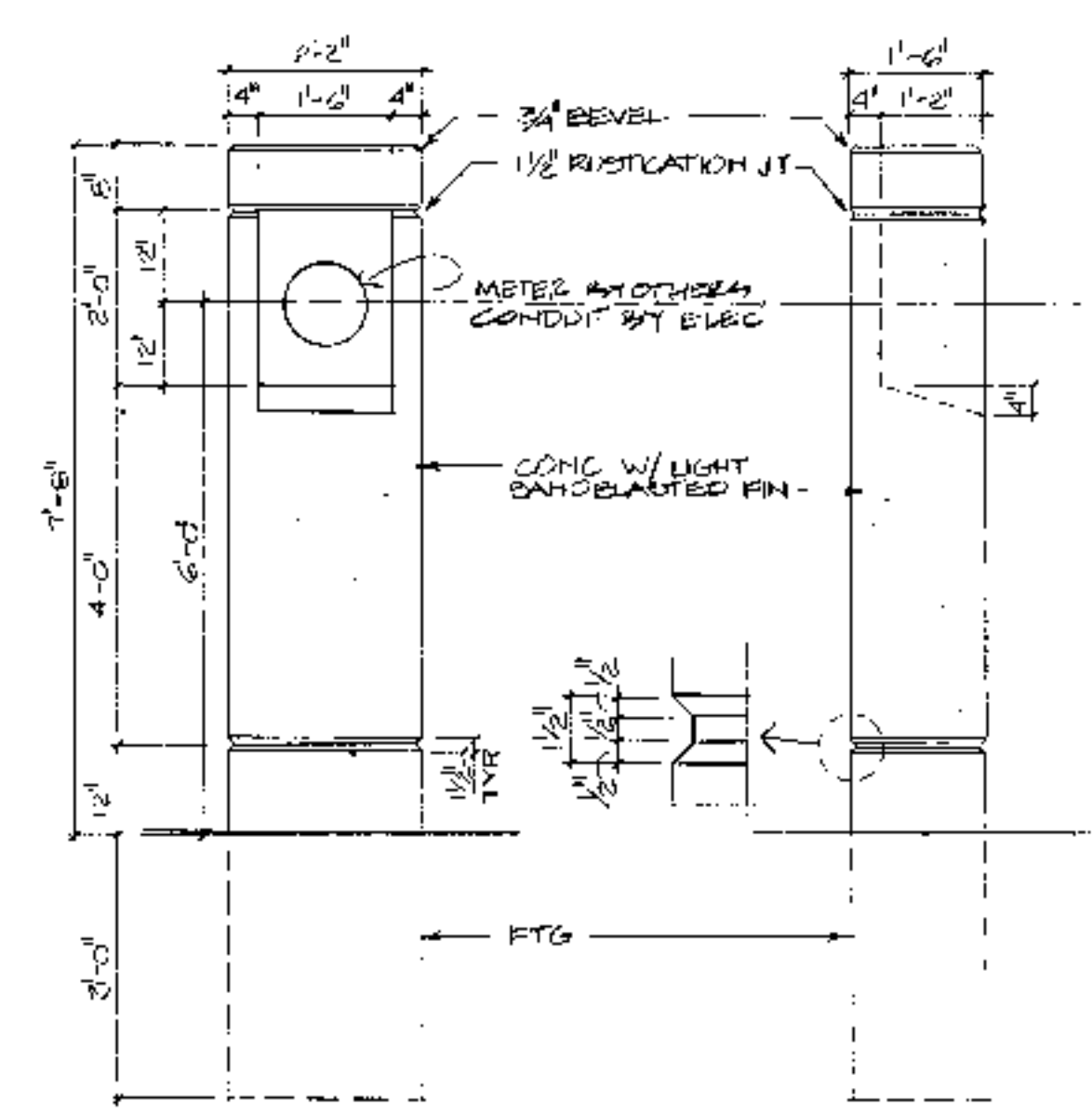


SITE PLAN
1" = 20' - 0"

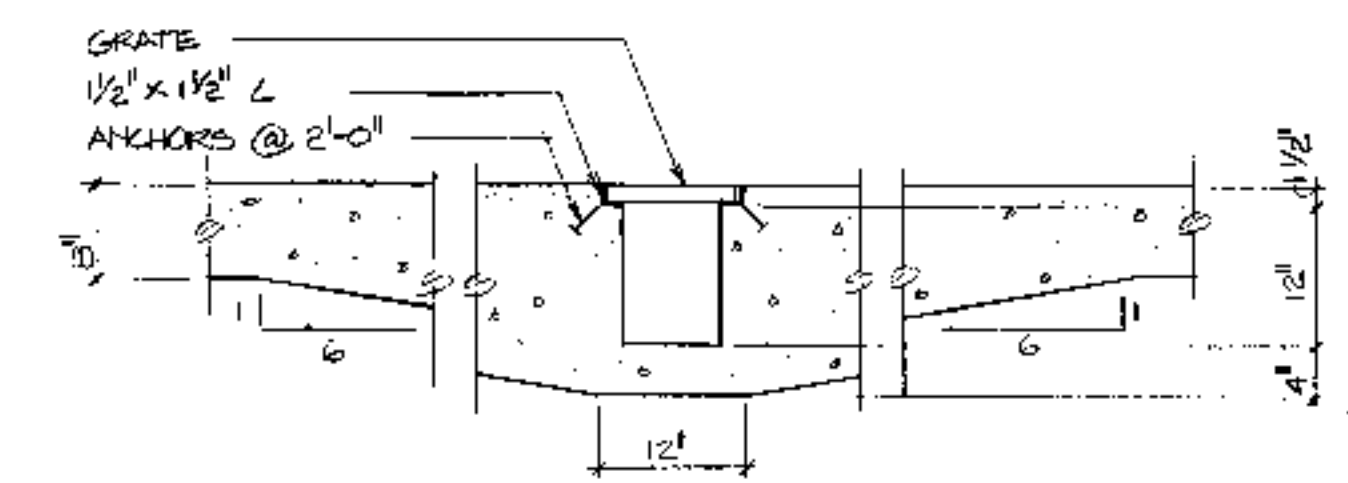
- LEGEND:**
 BOLLARD
 TREE GRATE
 LIGHT STANDARD
 BICYCLE R



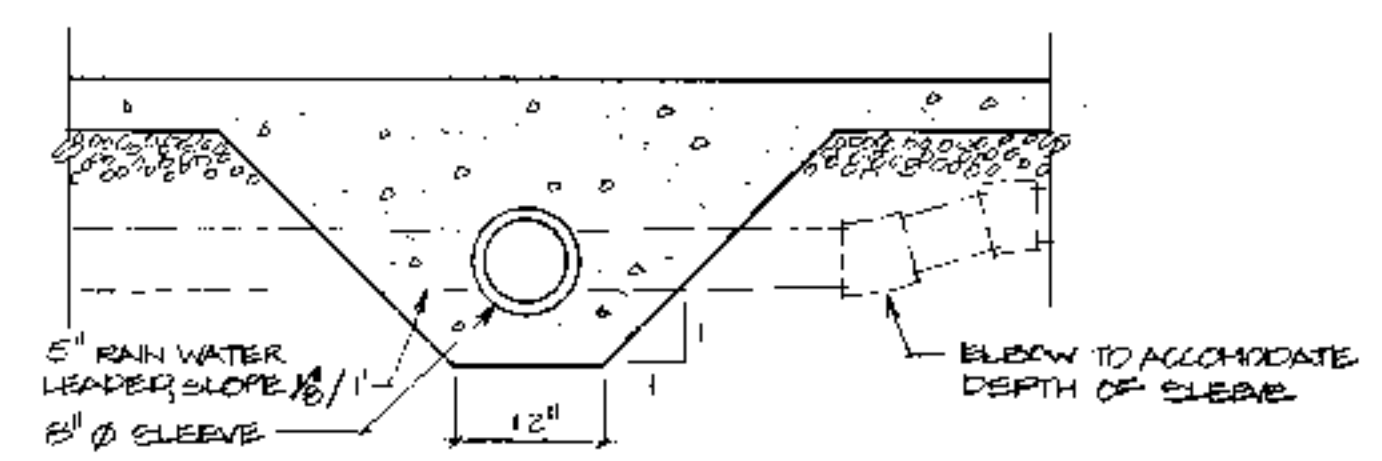
1 TREE GRATE
NO SCALE



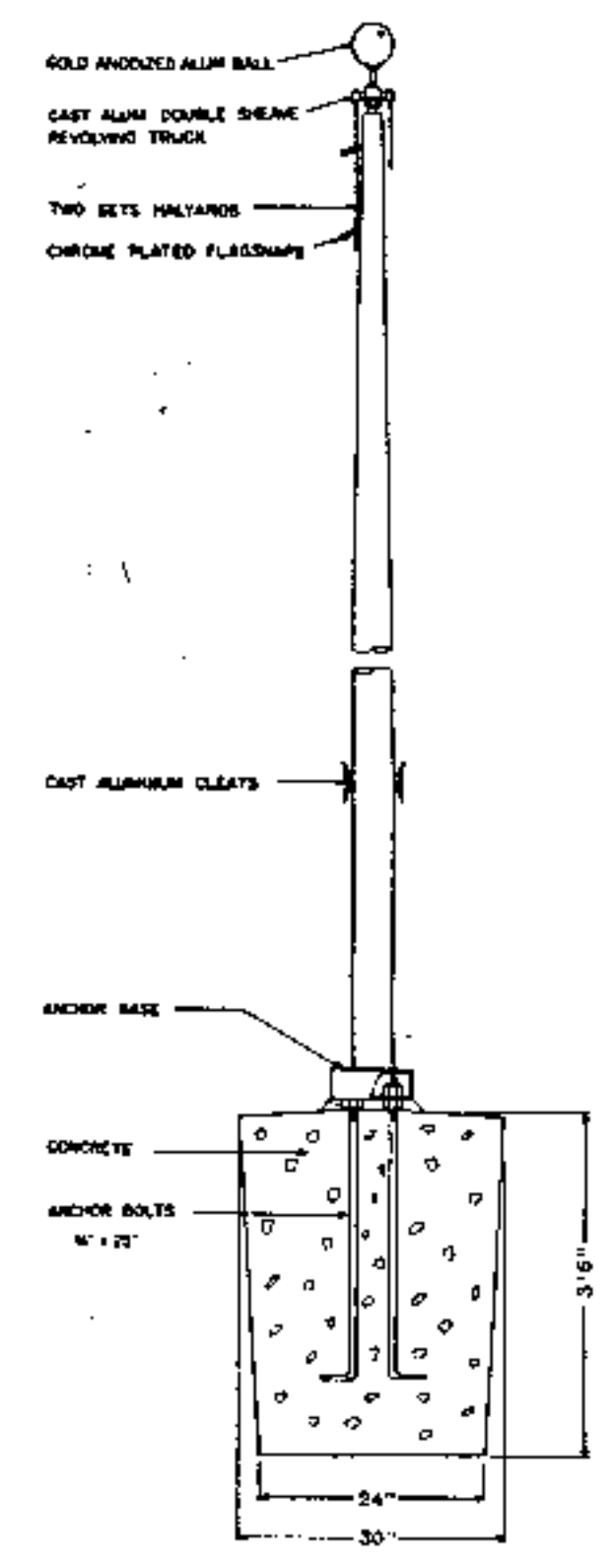
4 METER ENCLOSURE
1/2" = 1'-0"



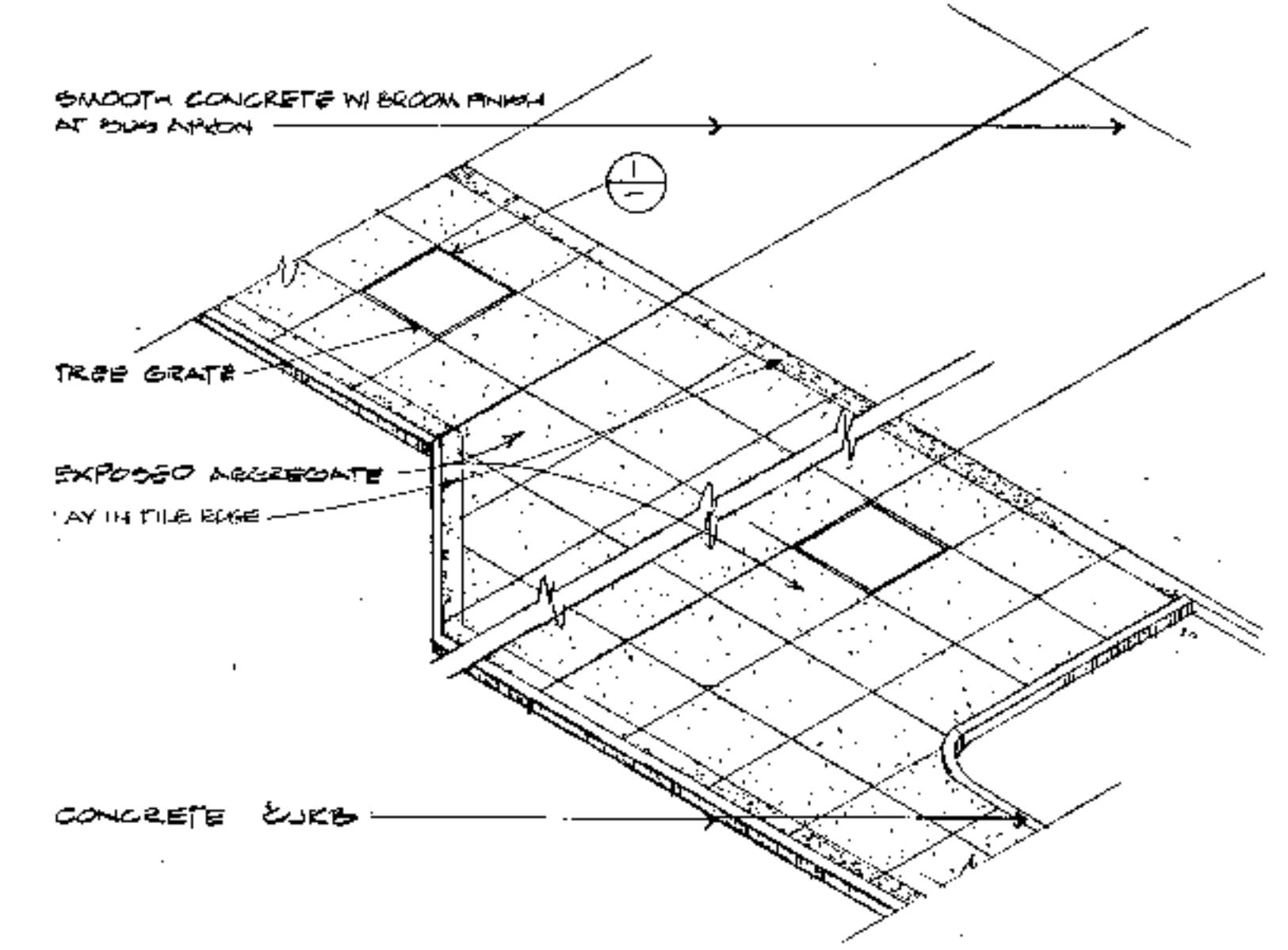
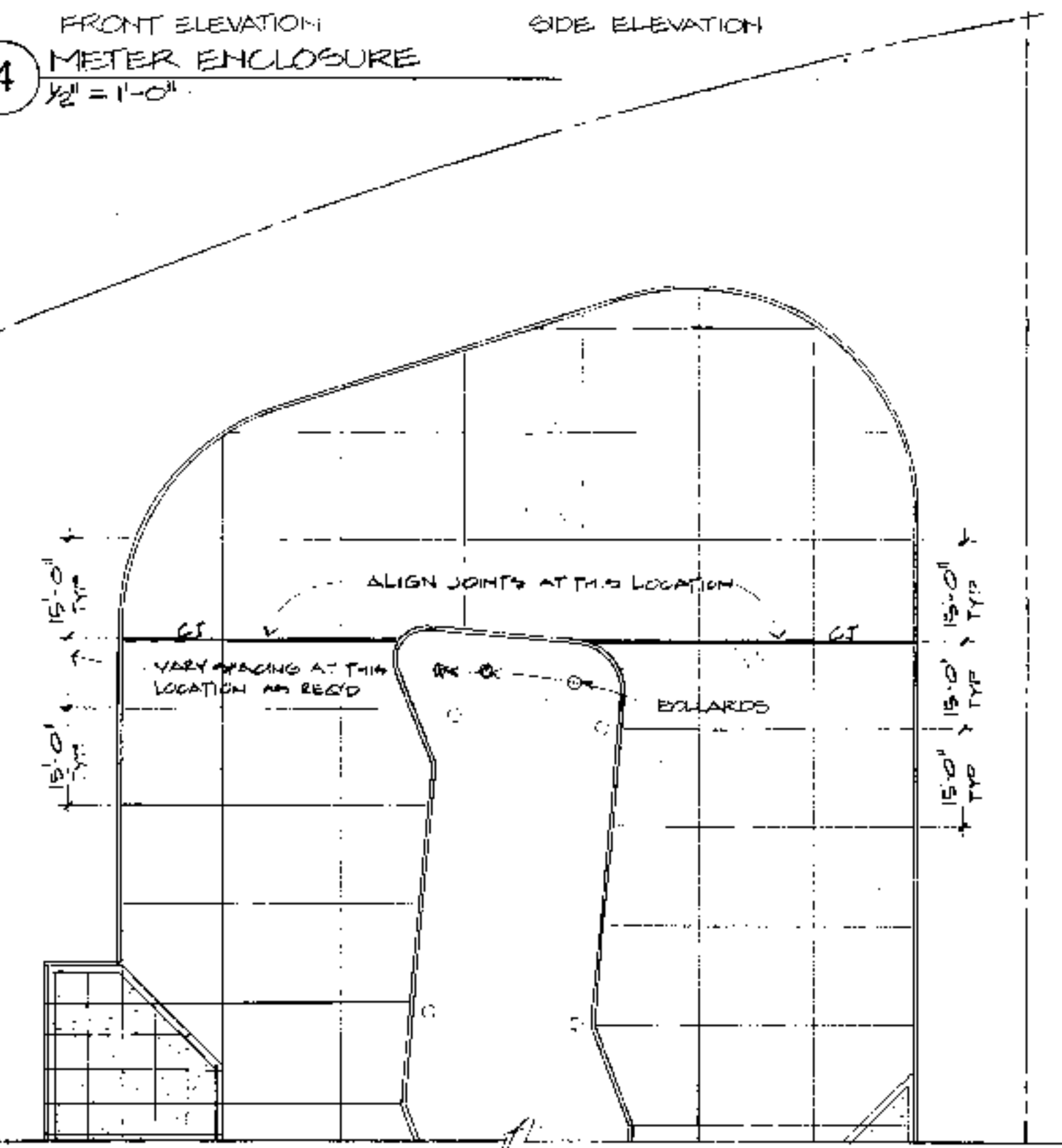
2 SECTION @ BUS APRON
3/4" = 1'-0"



3 SECTION @ TRANSIT ISLAND
3/4" = 1'-0"



5 FLAGPOLE
NO SCALE



6 PAVING AT PEDESTRIAN CIRC. AREA
1/4" = 1'-0" SCALE

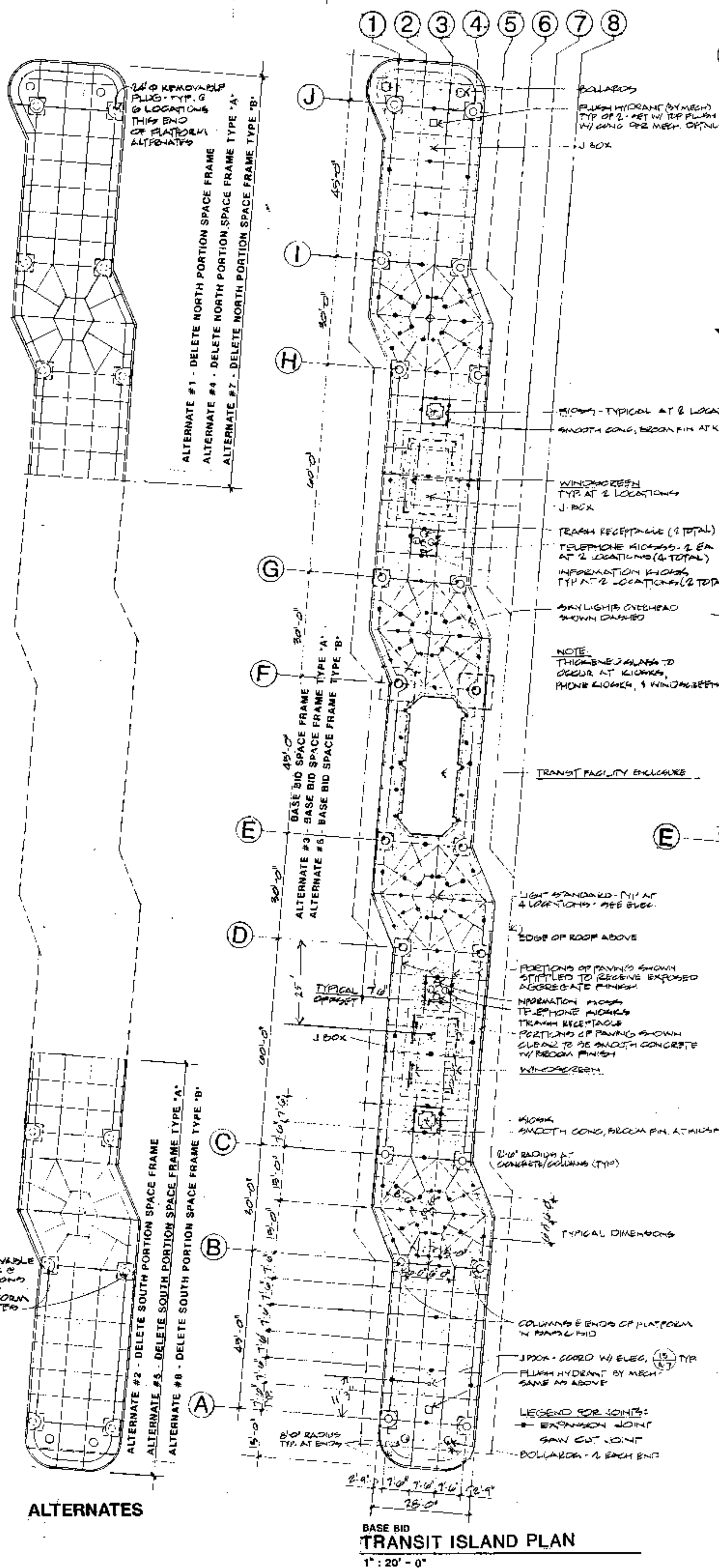
REGISTERED ARCHITECT
RONALD L. TAN
STATE OF WASHINGTON
1233

TAN BOYLE HEYANOTO ARCHITECTS IN ASSOCIATION WITH KIRKWOOD ARCHITECTS AND ASSOCIATES
SUITE 715 SOUTH 9 WASHINGTON STREET
NORTH 117 1/2 HOWARD STREET
SPOKANE, WASHINGTON 99201
(509) 486-8648

SPOKANE TRANSIT AUTHORITY
VALLEY TRANSIT CENTER
FORTH AVENUE & UNIVERSITY ROAD
SPOKANE, WASHINGTON

PROJECT NO. 8703
DRAWN: MM
CHECKED: MRB
DATE: 9/15/88

A-8



TRANSIT FACILITY PLAN

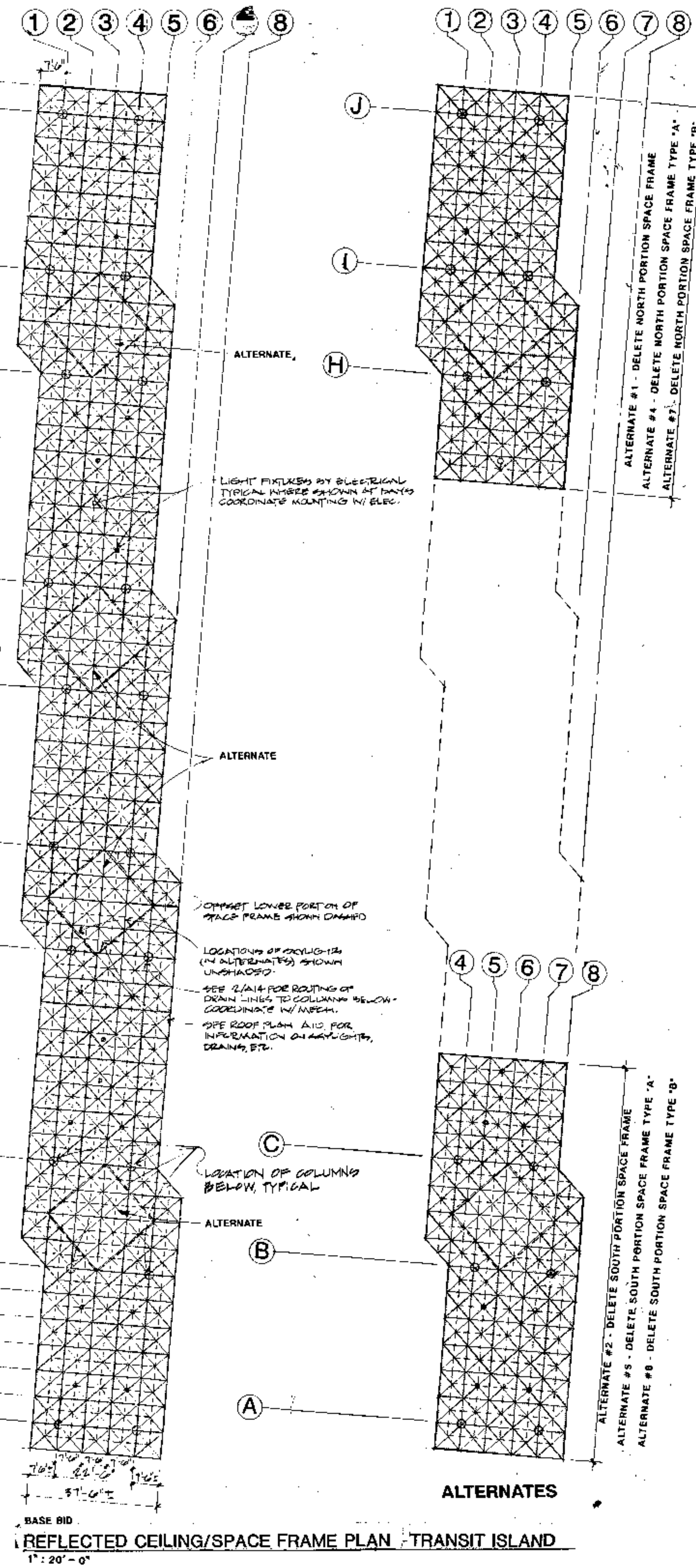
1/4" : 1' - 0"

NOTE: WINDOW TYPES SHOWN ON A-10

ROOM FINISH SCHEDULE - JOB:									
NO.	SPACE	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	CEILING	REMARKS
1	HALL	1ST	FR	FR	FR	FR	FR	FR	1" x 4" PLANK
2	OFFICE	1ST	FR	FR	FR	FR	FR	FR	1" x 4" PLANK
3	MEN	1ST	FR	FR	FR	FR	FR	FR	1" x 4" PLANK
4	WOMEN	1ST	FR	FR	FR	FR	FR	FR	1" x 4" PLANK
5	STORAGE	1ST	FR	FR	FR	FR	FR	FR	1" x 4" PLANK
6	STORAGE	1ST	FR	FR	FR	FR	FR	FR	1" x 4" PLANK
7	STORAGE	1ST	FR	FR	FR	FR	FR	FR	1" x 4" PLANK
8	STORAGE	1ST	FR	FR	FR	FR	FR	FR	1" x 4" PLANK

DOOR SCHEDULE

NO.	SIZE	DOOR	FRAME	DETAILS	LABEL	HOW	REMARKS
1	3'0" x 7'0" x 1 1/2"	FR	FR	FR	FR	FR	4" HEAD
2	3'0" x 7'0" x 1 1/2"	FR	FR	FR	FR	FR	4" HEAD
3	3'0" x 7'0" x 1 1/2"	FR	FR	FR	FR	FR	4" HEAD
4	3'0" x 7'0" x 1 1/2"	FR	FR	FR	FR	FR	4" HEAD
5	3'0" x 7'0" x 1 1/2"	FR	FR	FR	FR	FR	4" HEAD
6	3'0" x 7'0" x 1 1/2"	FR	FR	FR	FR	FR	4" HEAD
7	3'0" x 7'0" x 1 1/2"	FR	FR	FR	FR	FR	4" HEAD
8	3'0" x 7'0" x 1 1/2"	FR	FR	FR	FR	FR	4" HEAD



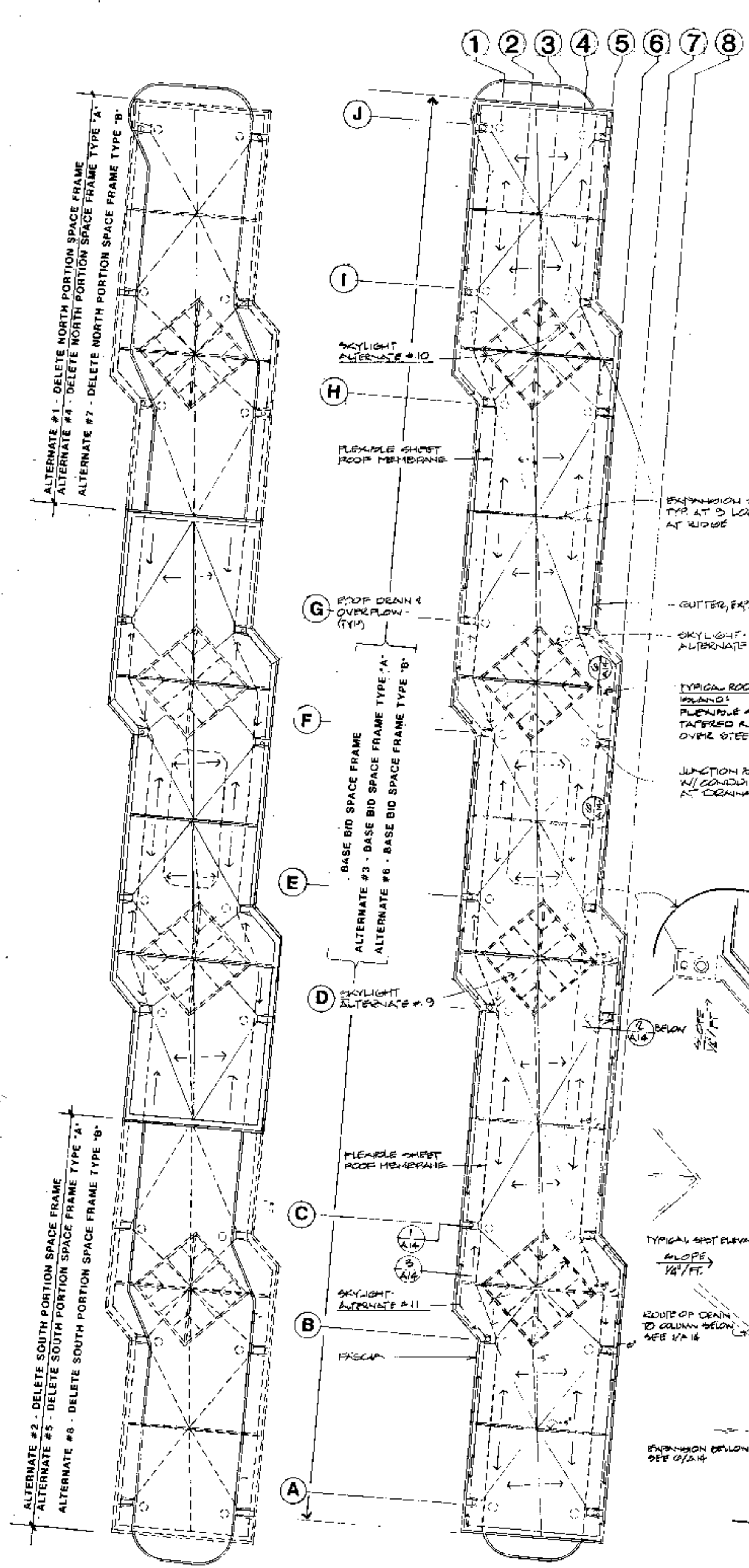
TAN BOYLE HEYAMOTO ARCHITECTS IN ASSOCIATION WITH KIRKWOOD ARCHITECTS AND ASSOCIATES
SUITE 715 SOUTH 9 WASHINGTON
SPOKANE, WASHINGTON 99201
(509) 456-8848

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SPOKANE, WASHINGTON

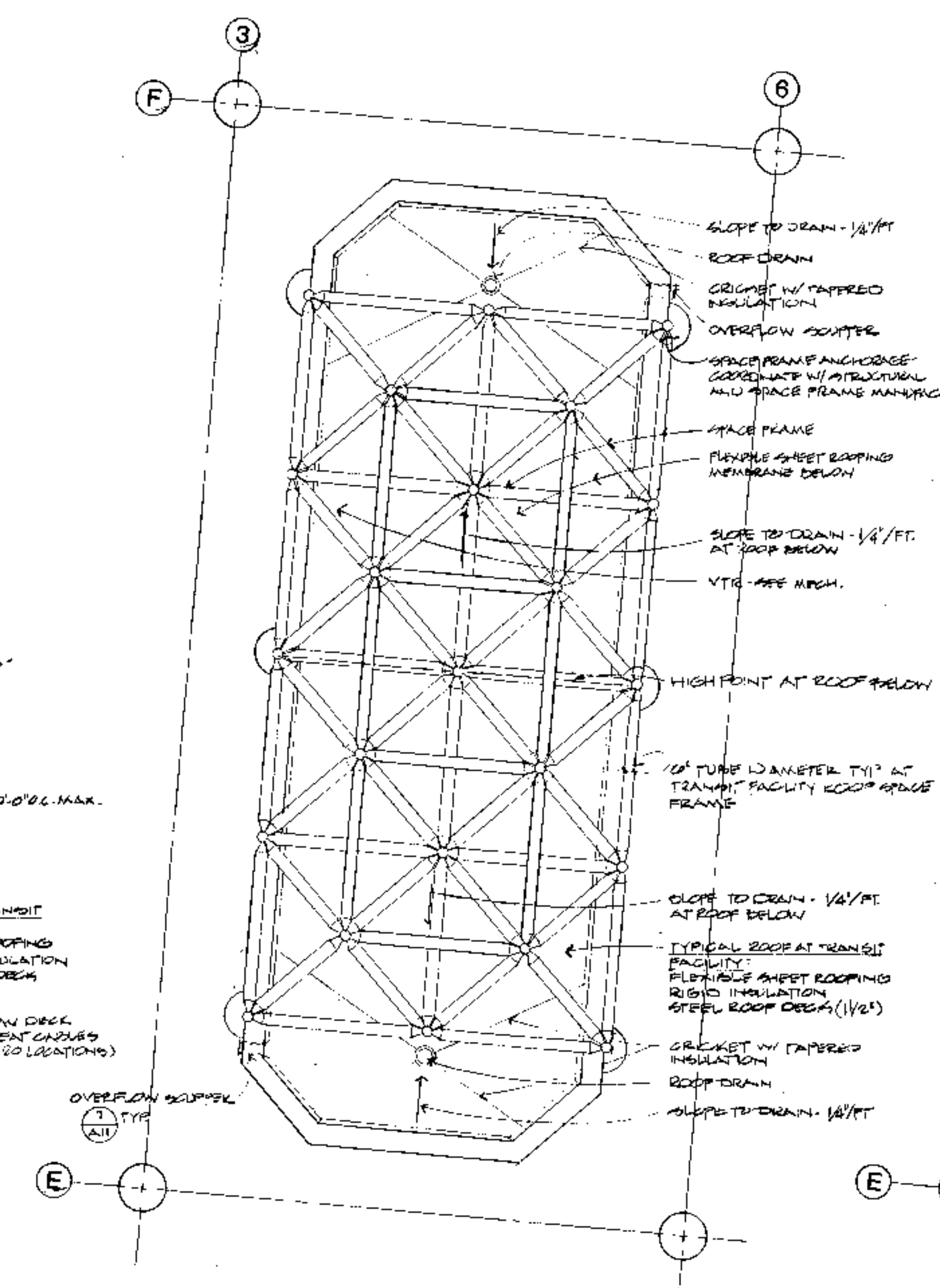


PROJECT NO. 2703
DRAWN: GG
CHECKED: MRB
DATE: 9/16/88

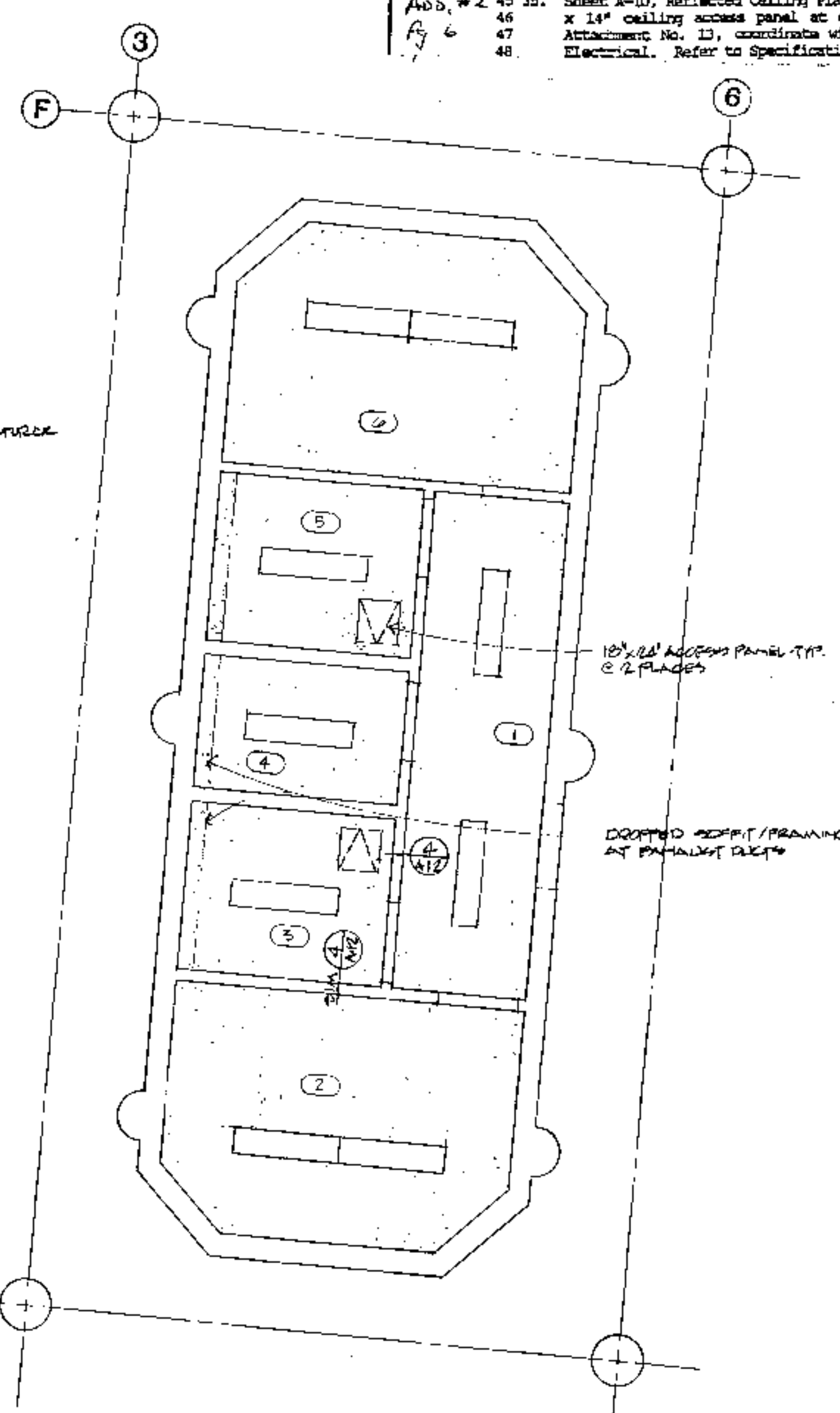
A-9



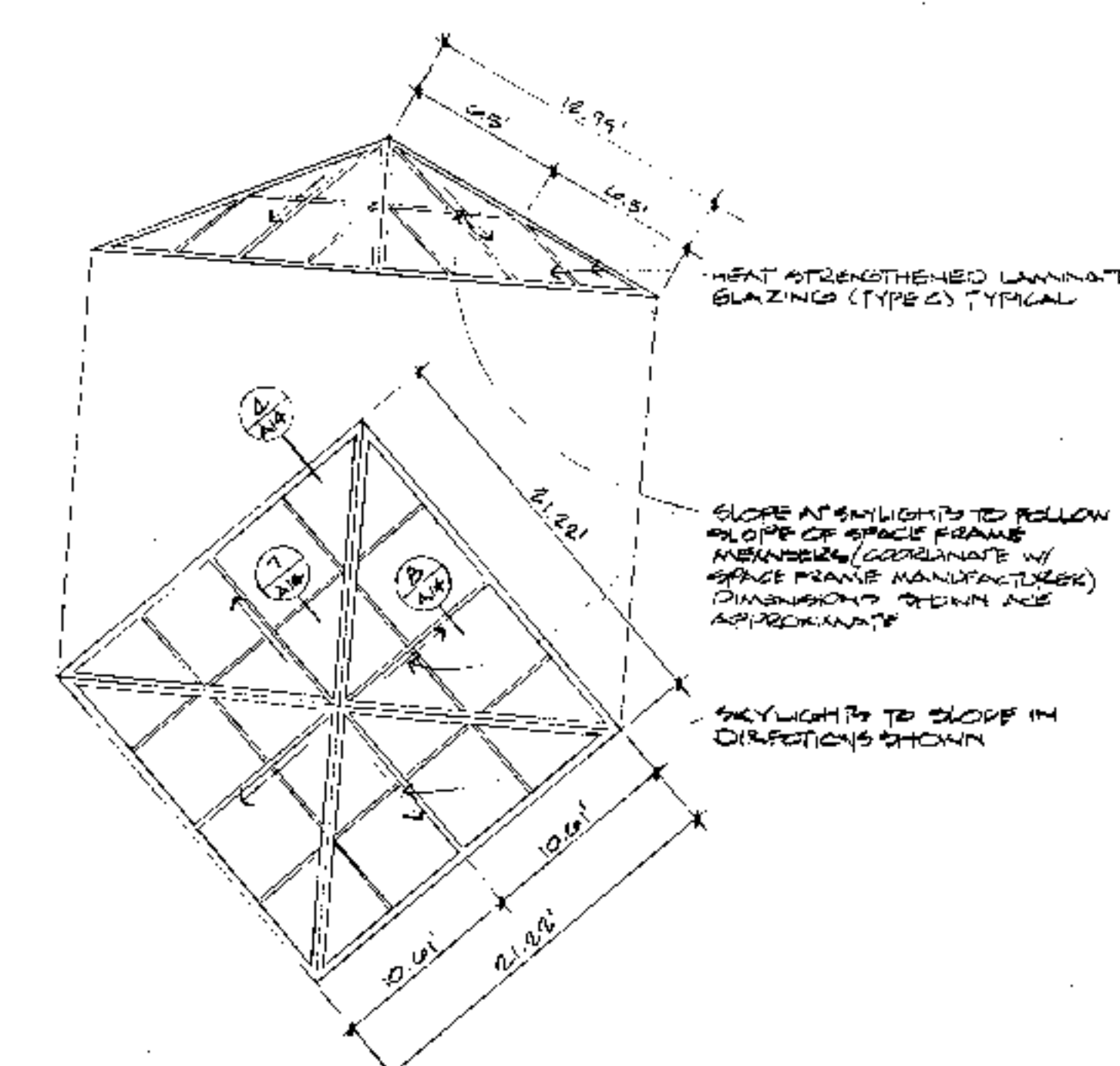
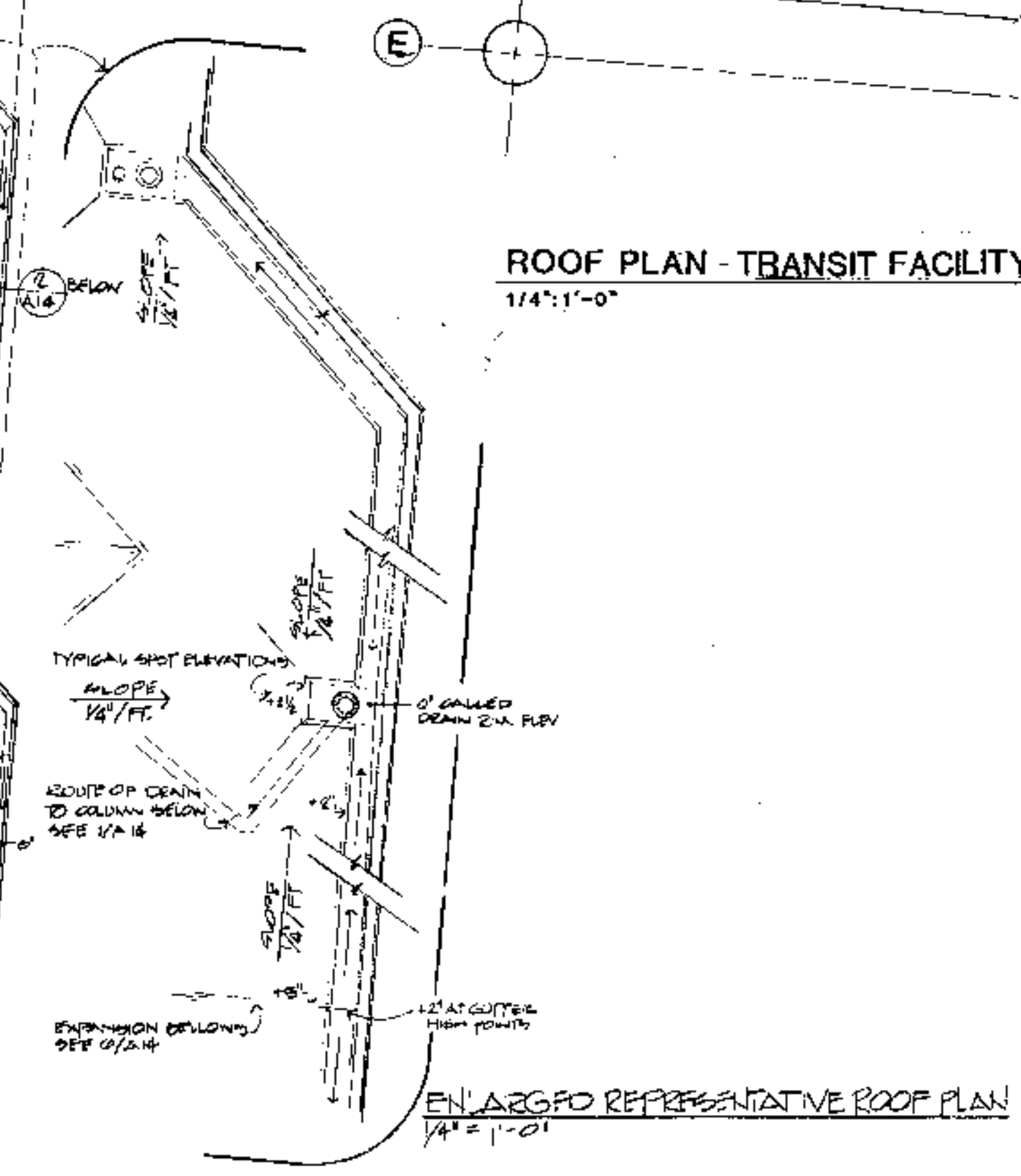
ROOF PLAN - TRANSIT ISLAND
1/8" = 20' - 0"



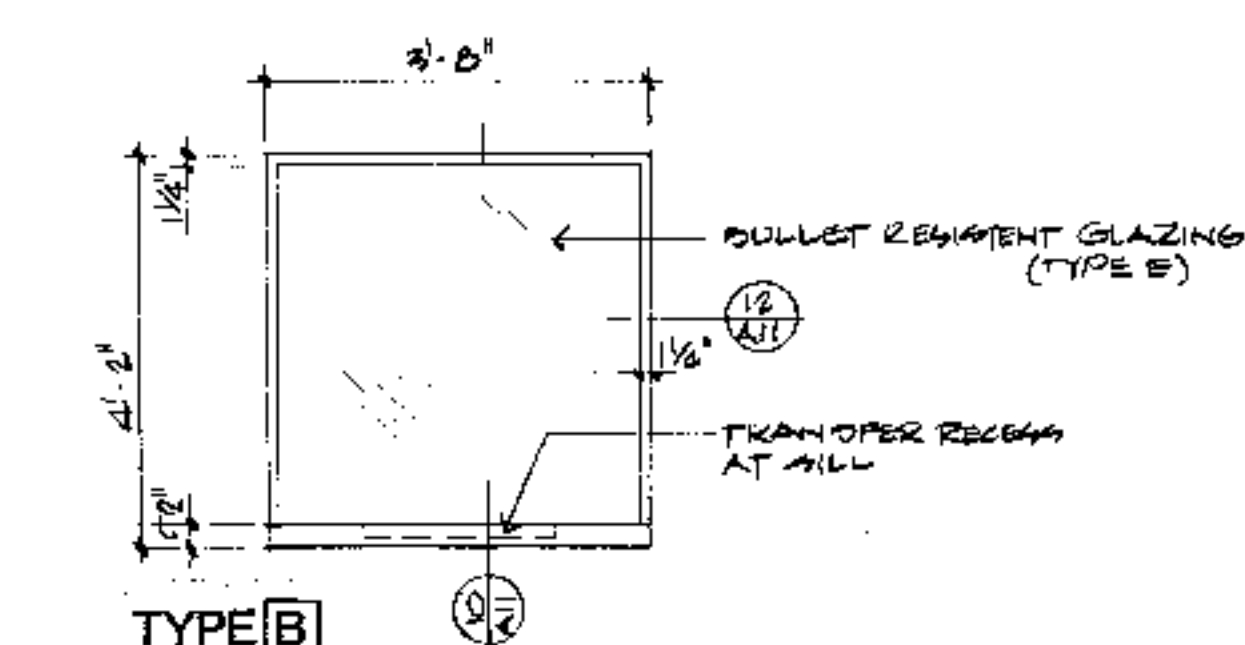
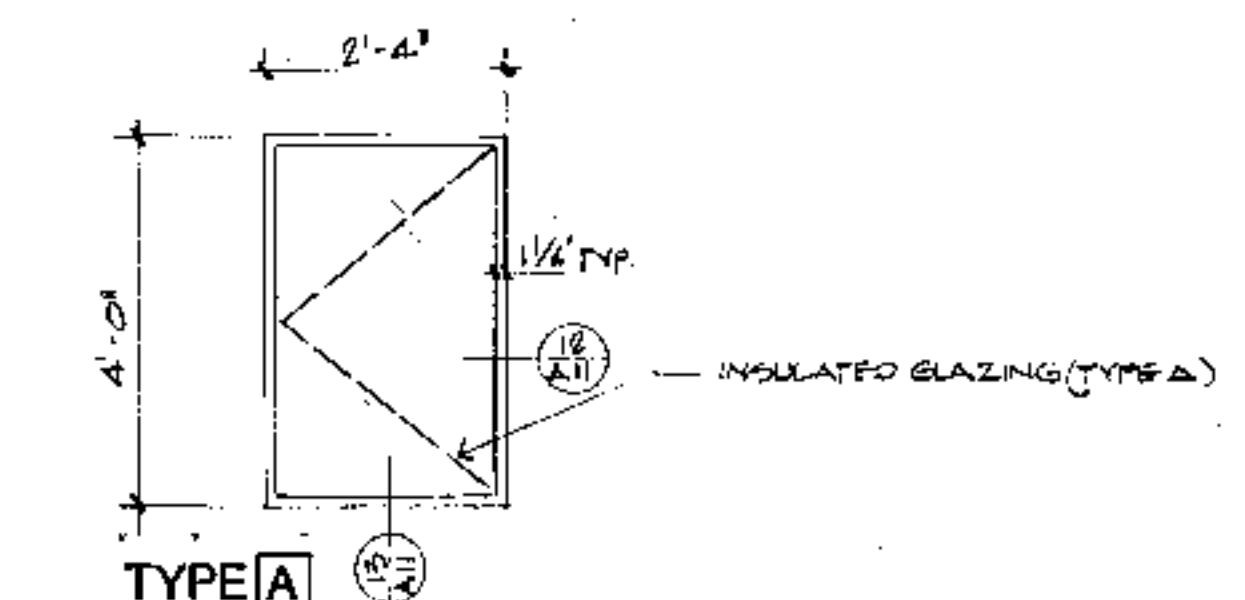
ROOF PLAN - TRANSIT FACILITY
1/4" = 1' - 0"



REFLECTED CEILING PLAN - TRANSIT FACILITY
1/4" = 1' - 0"



SKYLIGHT (TYP. OF 4 IN ALTERNATES 9-11)
1/8" = 1' - 0"



OVERALL SIZES INDICATED ARE FOR ROUGH OPENINGS - ALLOW CLEARANCES
WINDOW TYPES
1/2" = 1' - 0"

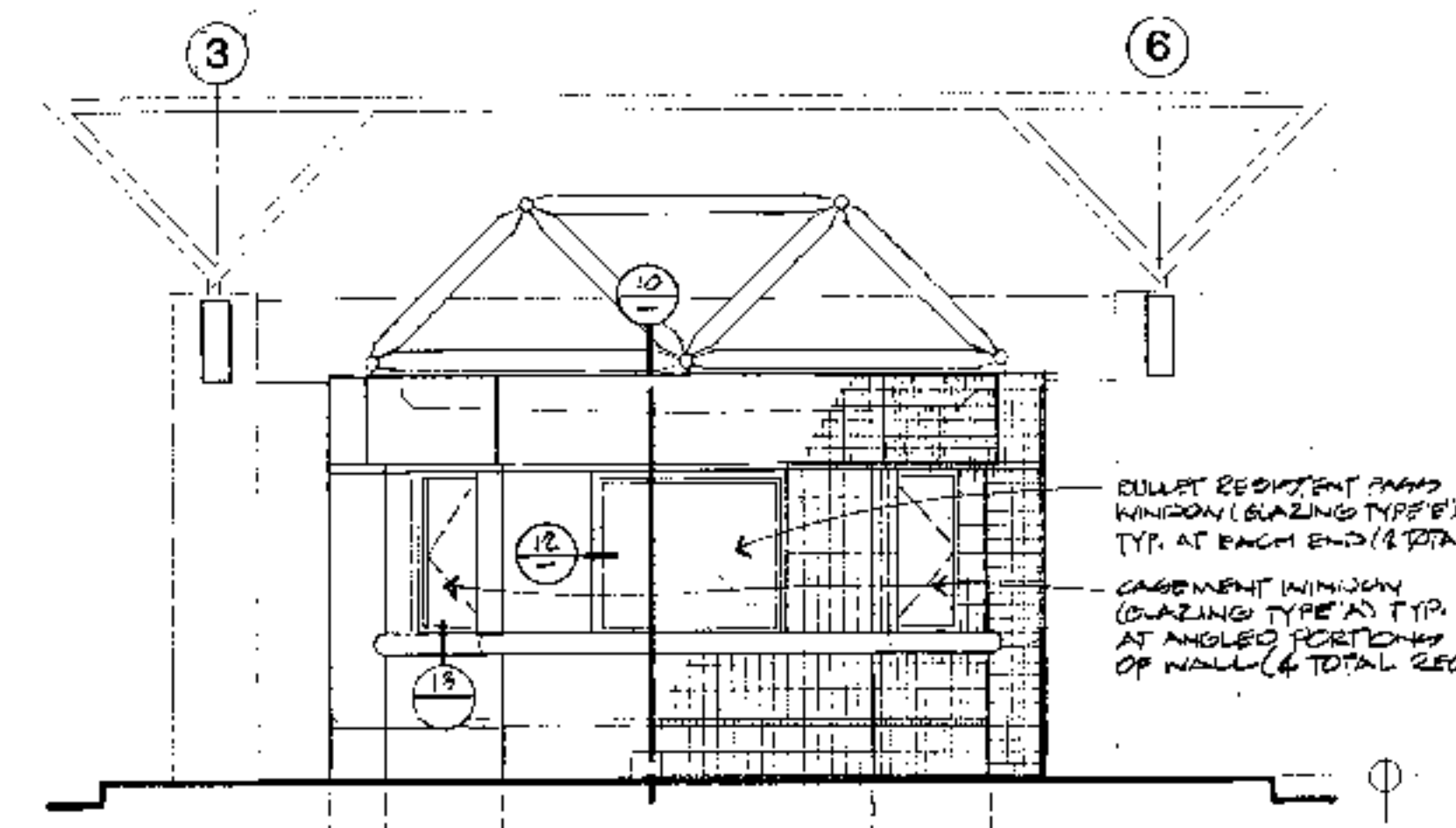
REGISTERED ARCHITECT
STATE OF WASHINGTON
1233

SPOKANE TRANSIT AUTHORITY
VALLEY TRANSIT CENTER
FORTH AVENUE & UNIVERSITY ROAD
SPOKANE, WASHINGTON

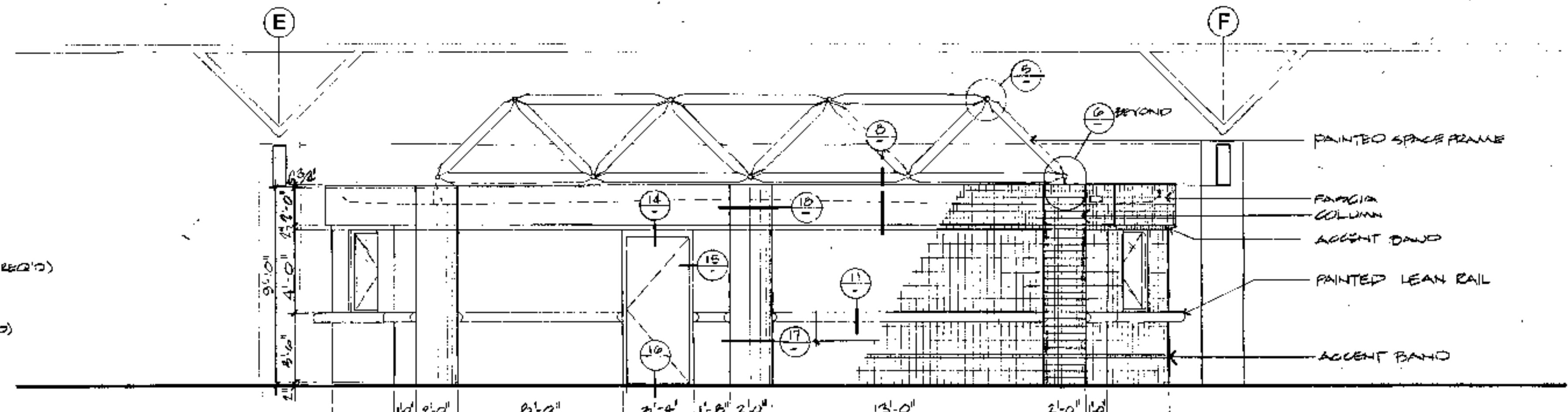
TAN BOYLE HEYANOTO ARCHITECTS IN ASSOCIATION WITH KIRKWOOD ARCHITECTS AND ASSOCIATES
SUITE 716 SOUTH 9 WASHINGTON
SPOKANE, WASHINGTON 99204
(509) 639-7474

PROJECT NO. 8703
DRAWN GJ
CHECKED MRB
DATE 9/16/88

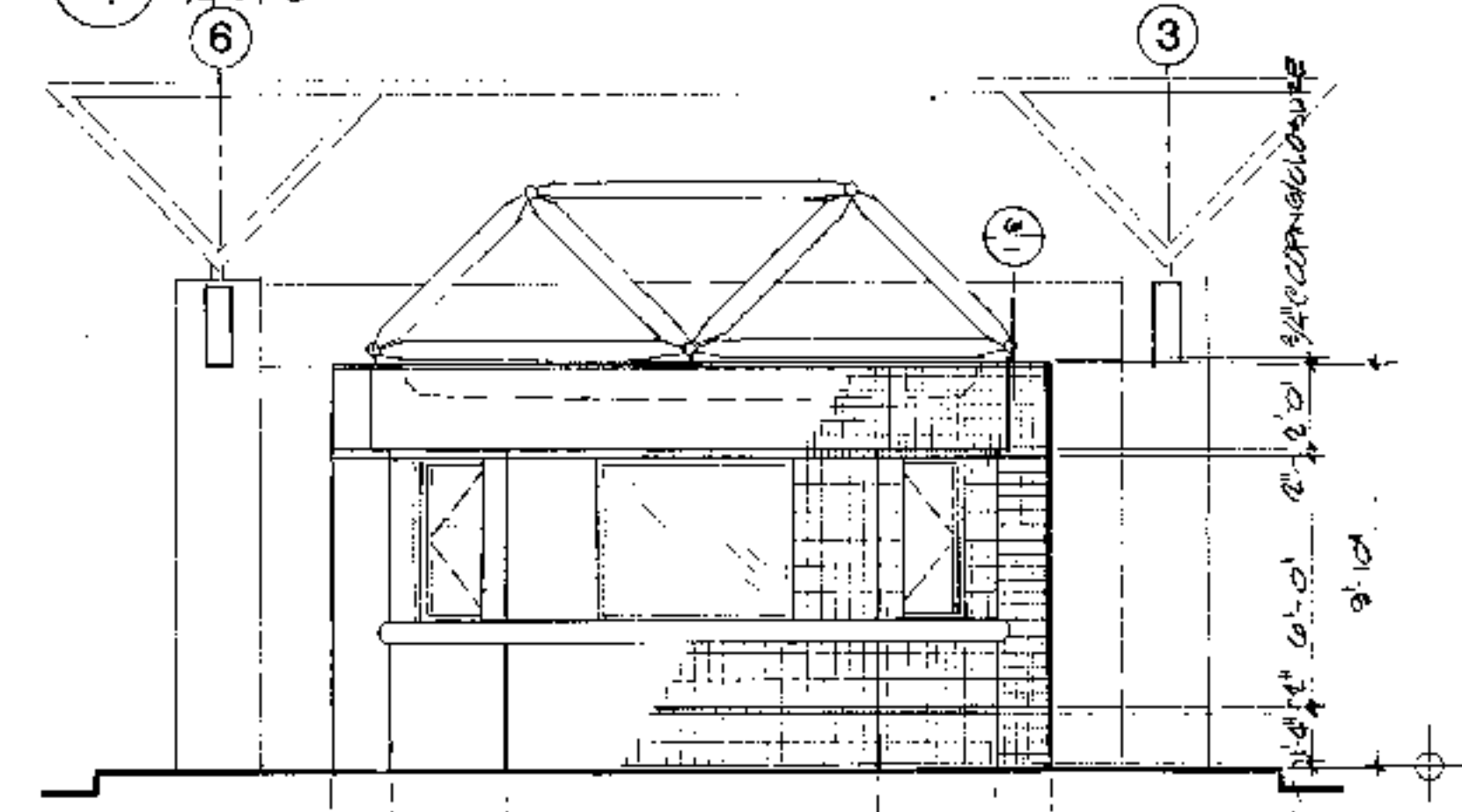
A-10



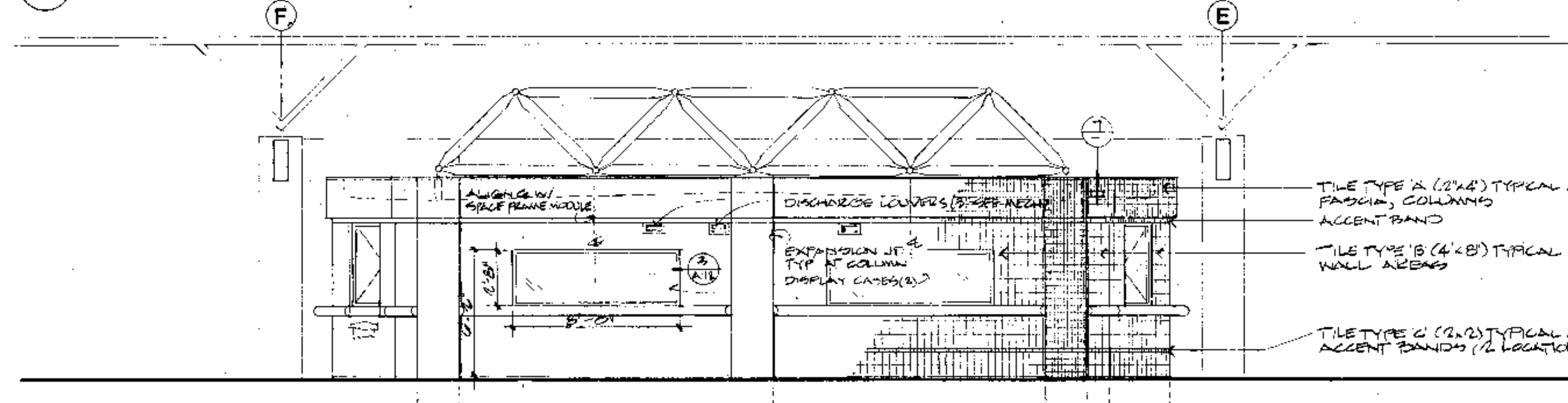
1 SOUTH ELEVATION - TRANSIT FACILITY
1/4" = 1'-0"



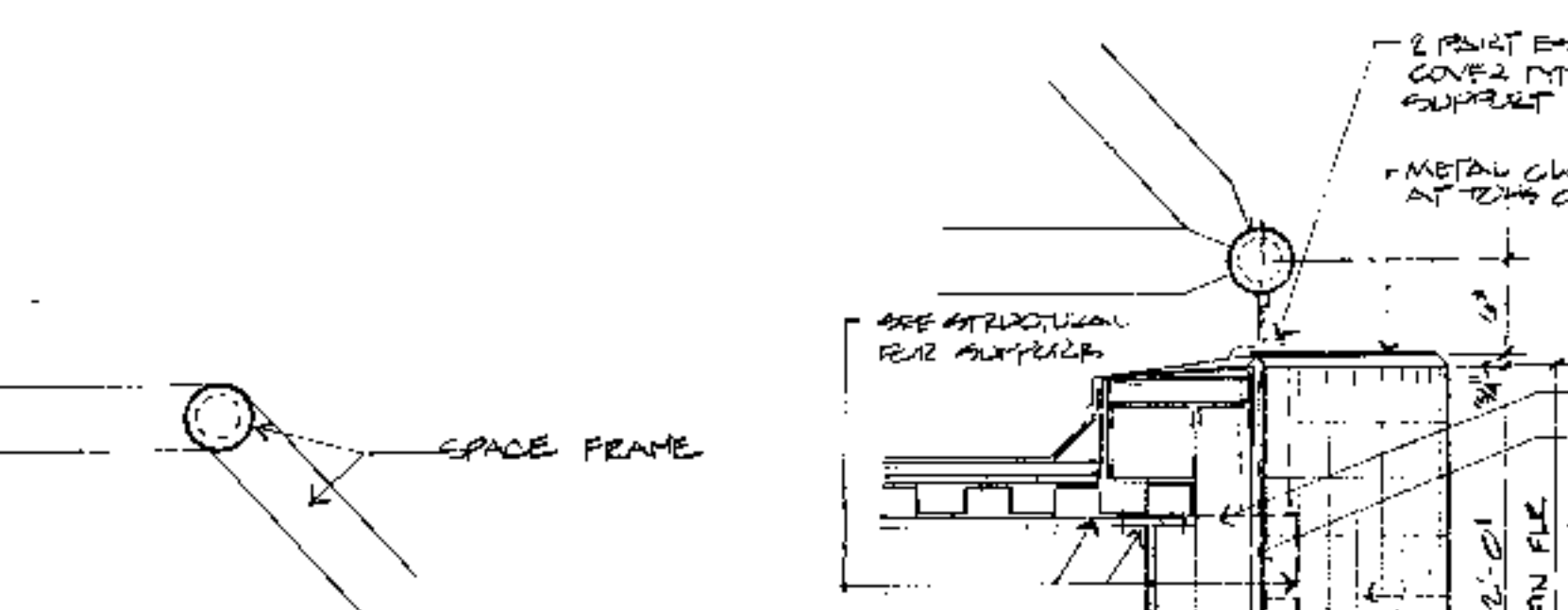
2 EAST ELEVATION
1/4" = 1'-0"



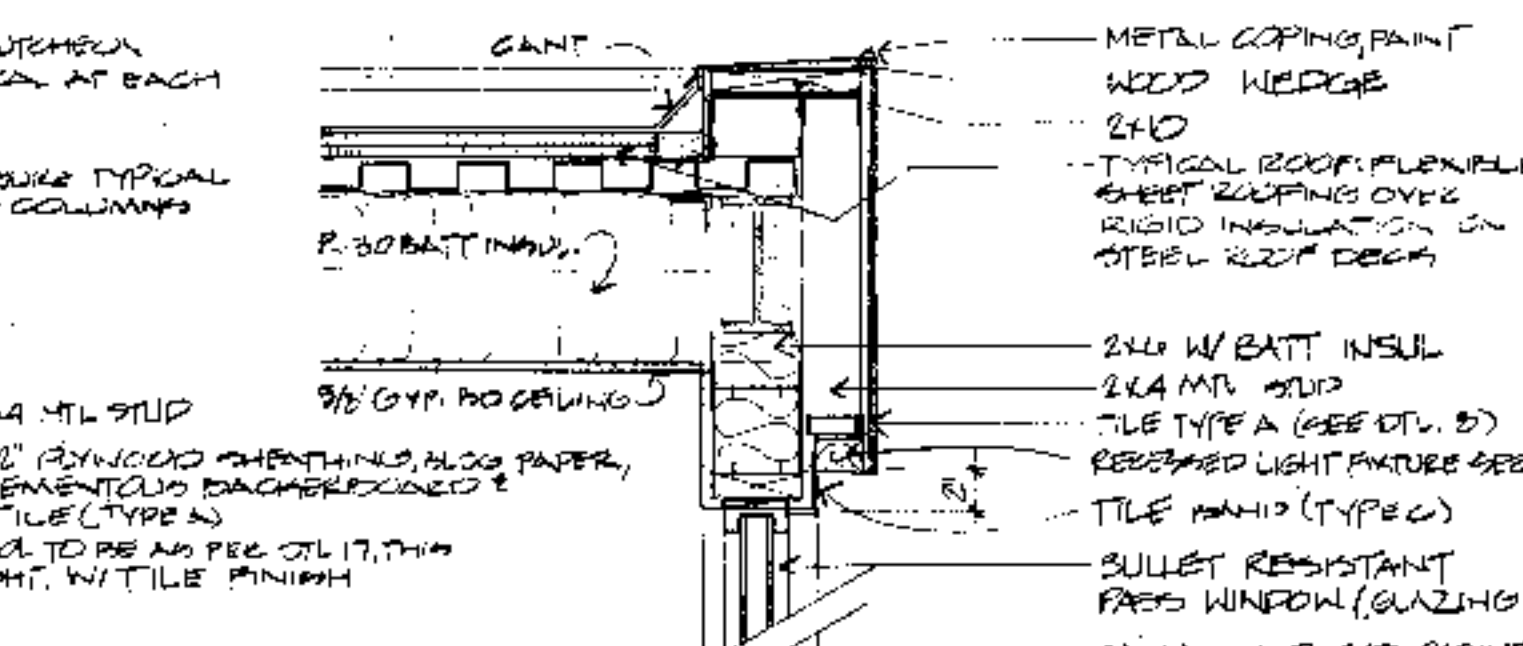
3 NORTH ELEVATION
1/4" = 1'-0"



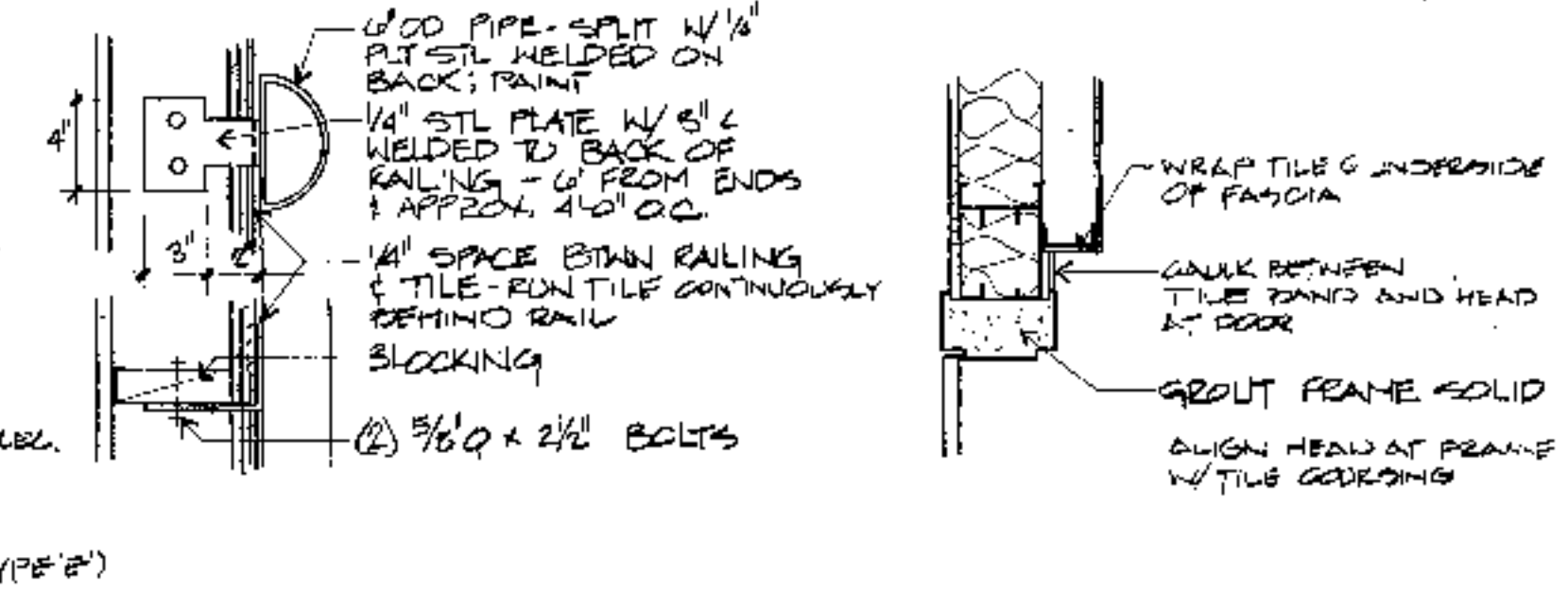
4 WEST ELEVATION
1/4" = 1'-0"



5 SPACE FRAME
1" = 1'-0"

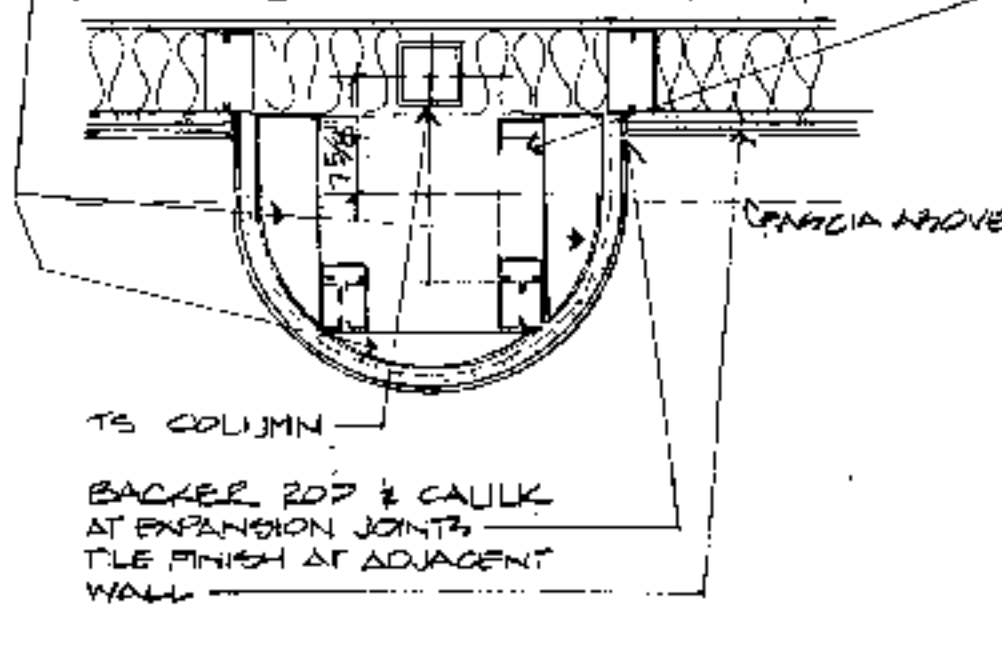


8 SPACE FRAME/COLUMN COVER
1" = 1'-0"



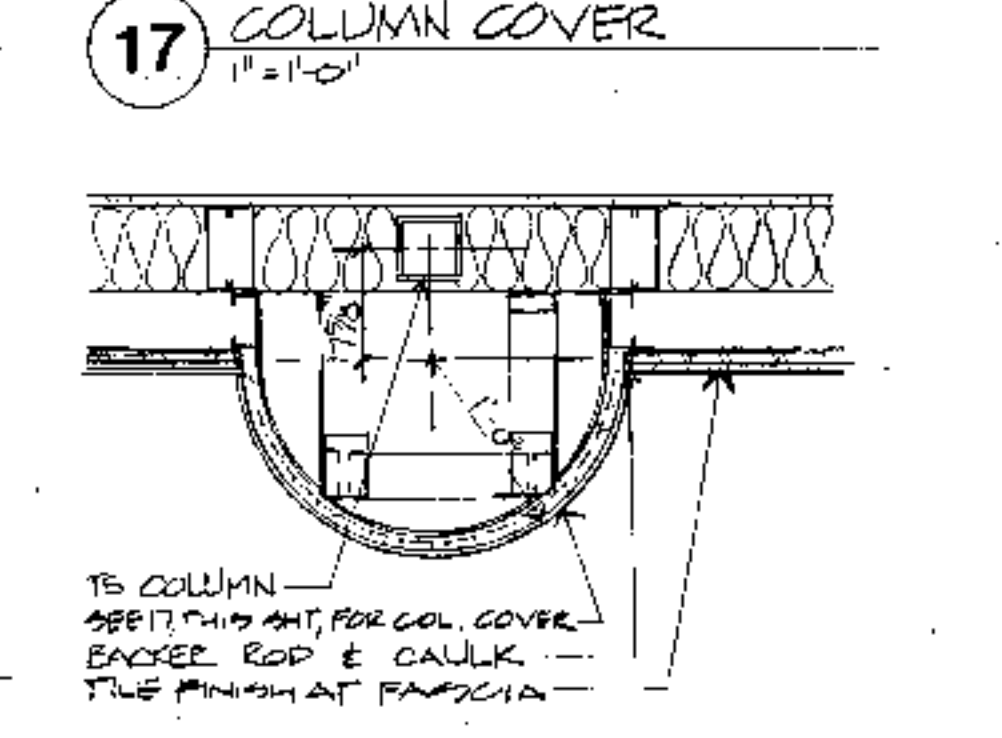
11 LEAN RAIL
1/2" = 1'-0"

12 WINDOW - JAMB
1" = 1'-0"



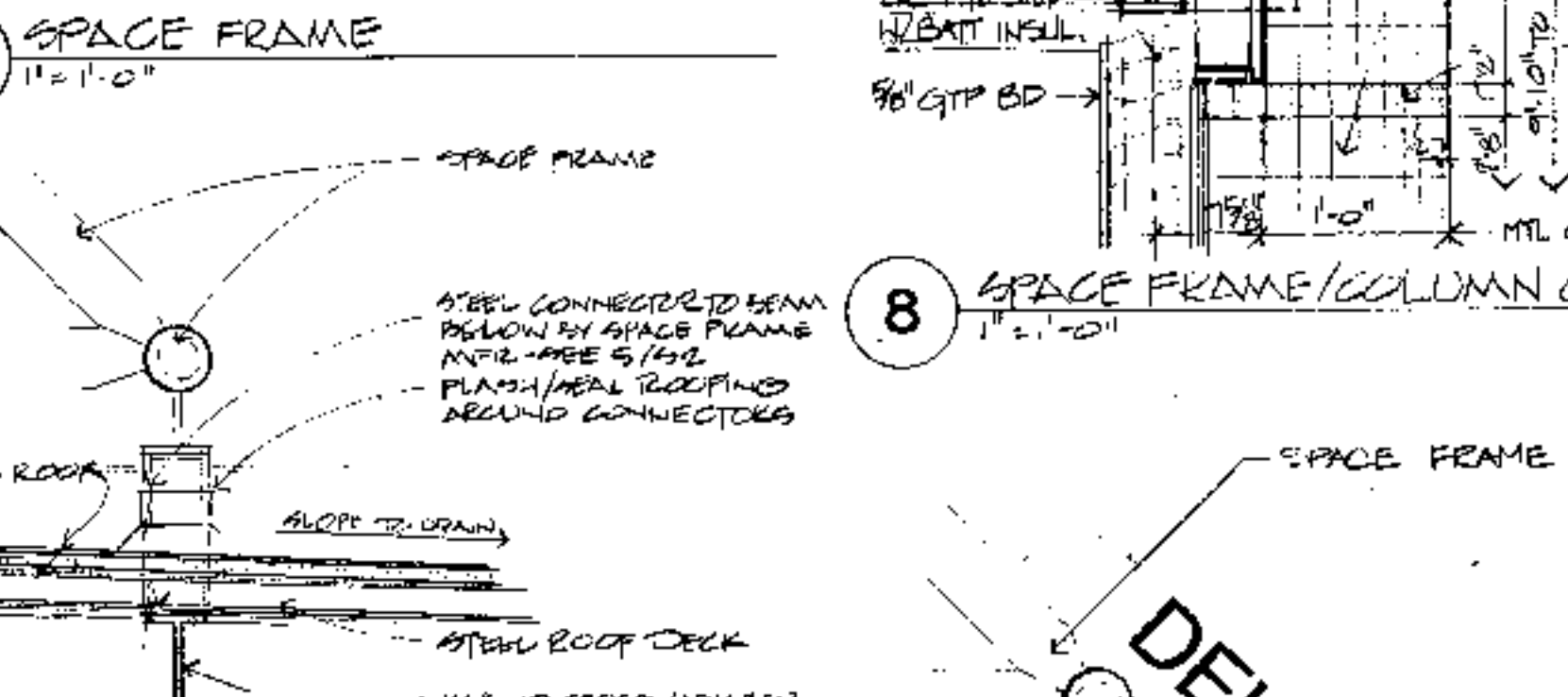
14 EXTERIOR DOOR-HEAD
1" = 1'-0"

15 EXTERIOR DOOR-JAMB
1" = 1'-0"



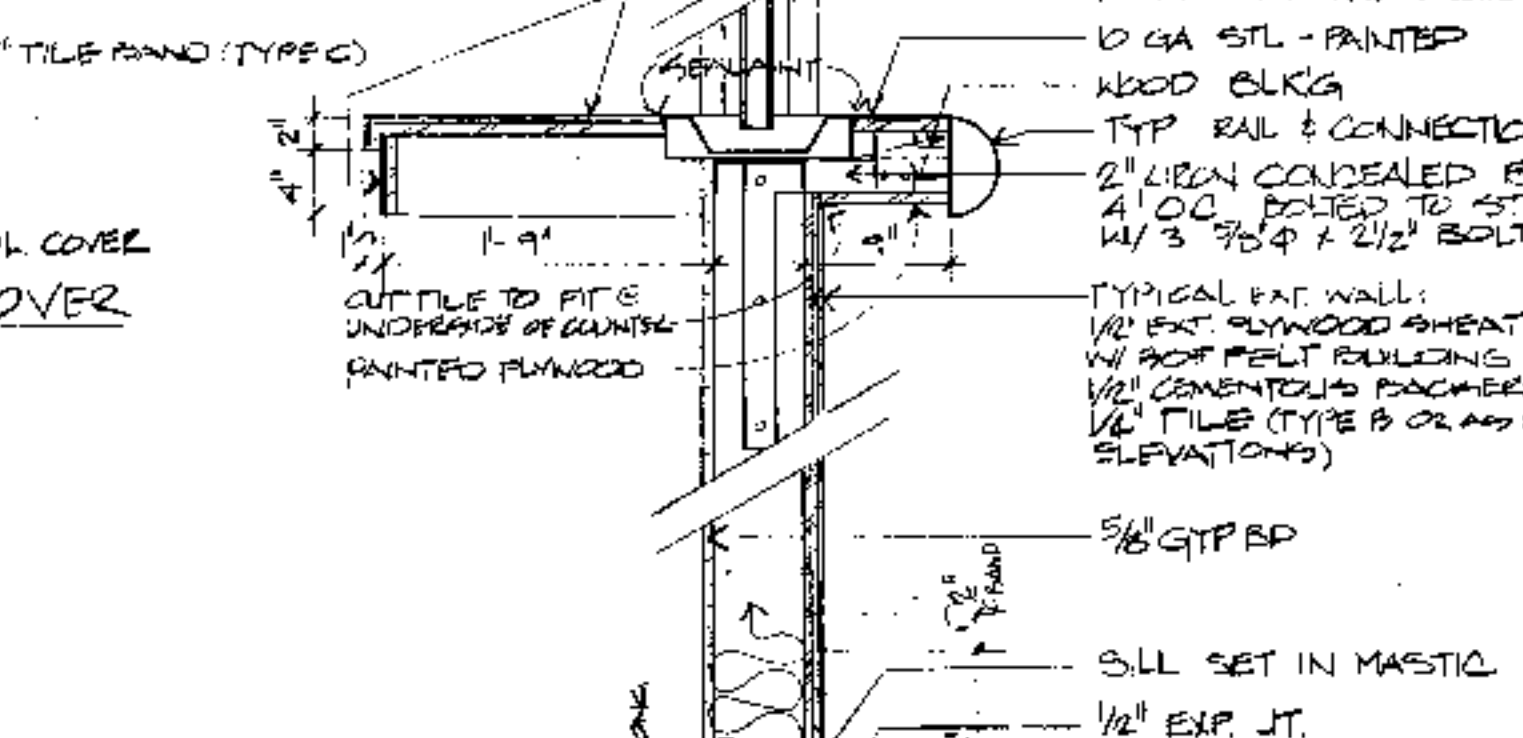
17 COLUMN COVER
1" = 1'-0"

18 COLUMN COVER
1" = 1'-0"

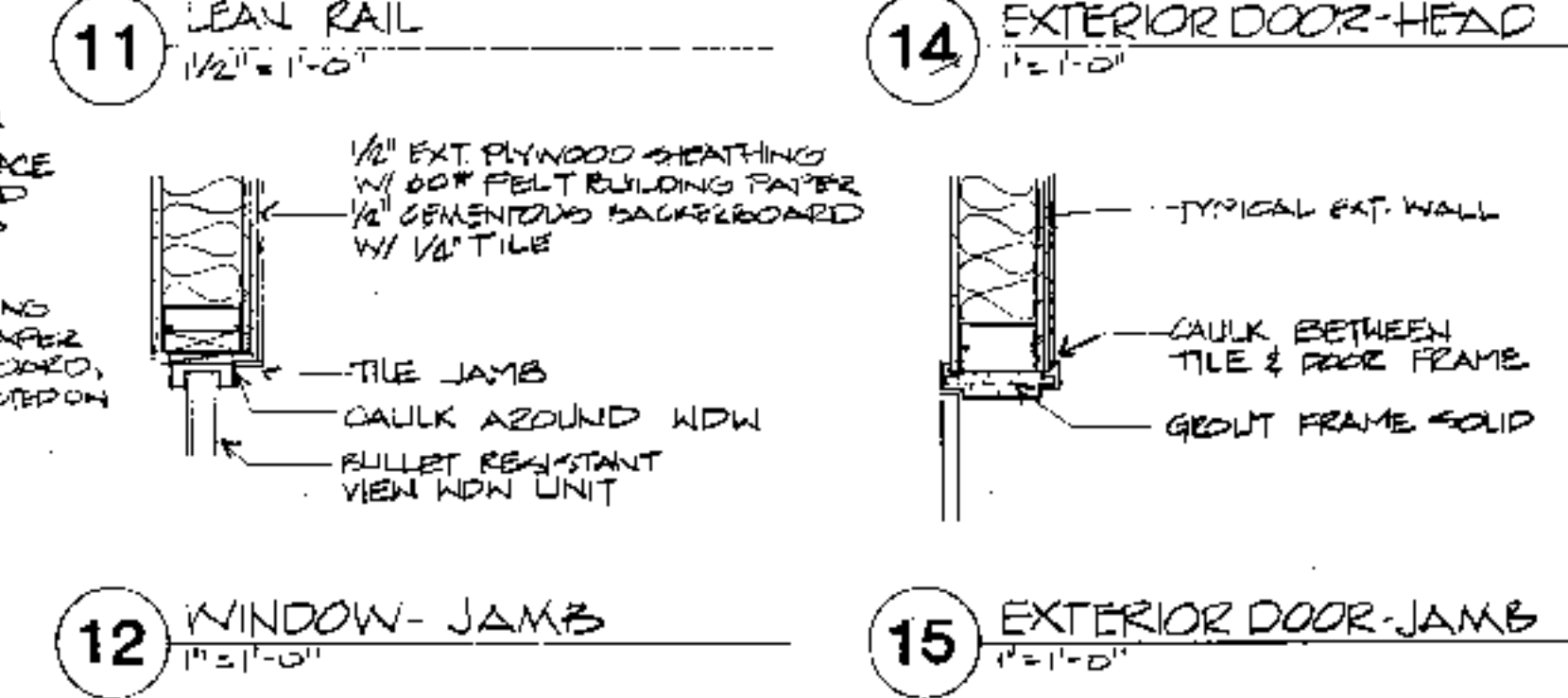


6 SPACE FRAME/ROOF
1" = 1'-0"

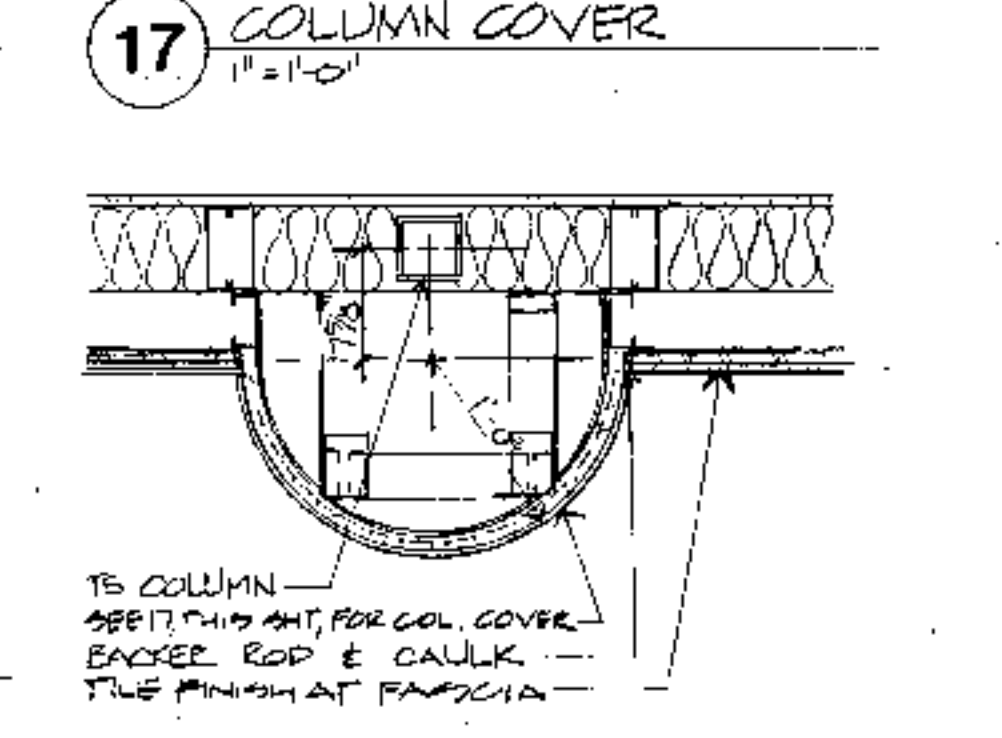
7 ROOF DRAIN
1" = 1'-0"



10 TYPICAL WALL SECTION
1" = 1'-0"

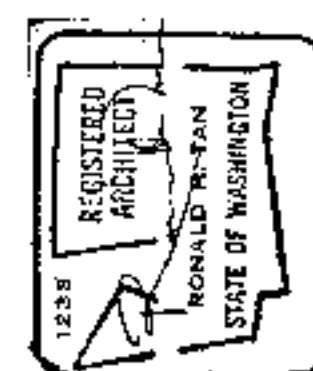


13 WINDOW-SILL
1" = 1'-0"



19 INTERIOR DOOR-JAMB (HEAD SHIM)
TRANSIT FACILITY ELEVATIONS & DETAILS

App. #2 4 37. Sheet A-11, Detail 10, Light Cove Classification Drawing
Pg. #7 5 6 Provide necessary light fixture framing and related components, assemblies and equipment as described on Attachment No. 17.



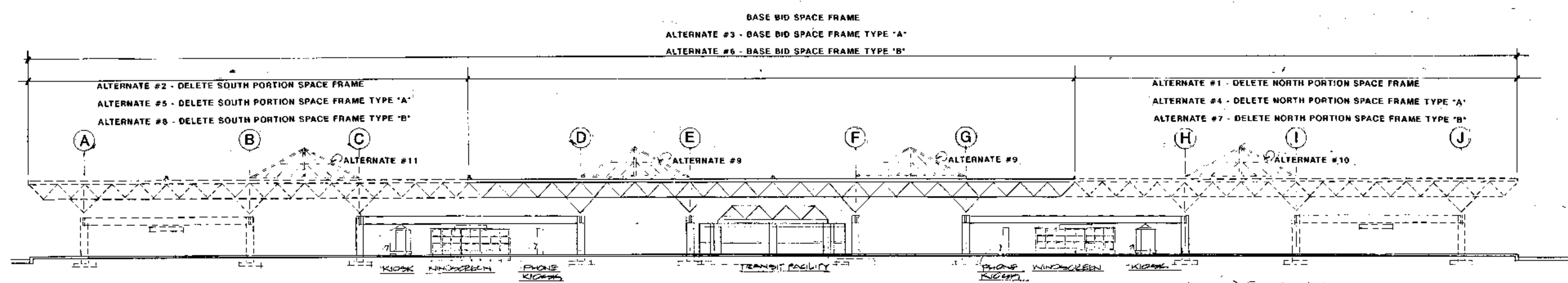
TAN BOYLE NEYAMOTO ARCHITECTS IN ASSOCIATION WITH KIRKWOOD ARCHITECTS AND ASSOCIATES
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SPOKANE, WASHINGTON

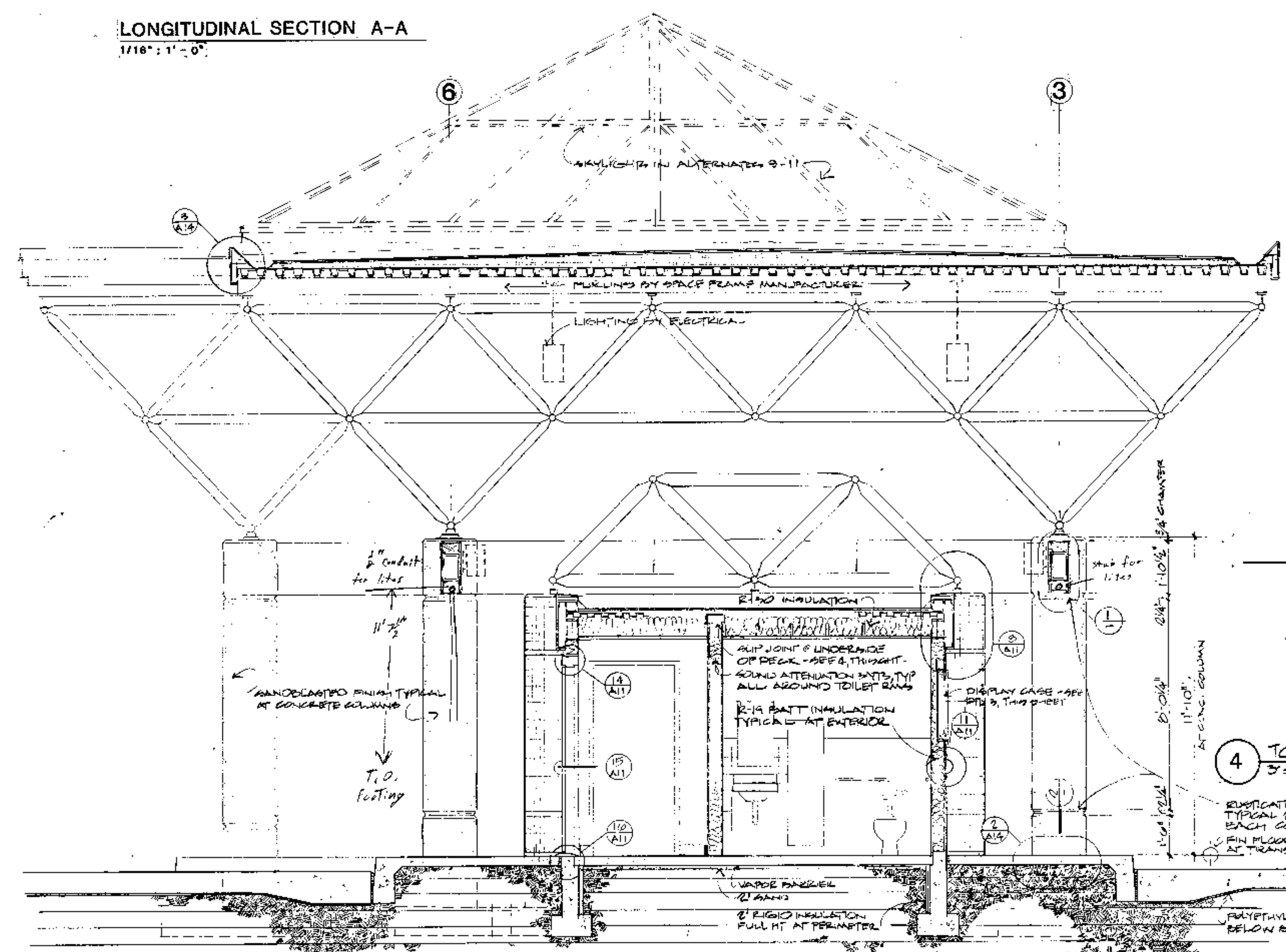


PROJECT NO. 8703
DRAWN BG
CHECKED MRS
DATE 9/16/83

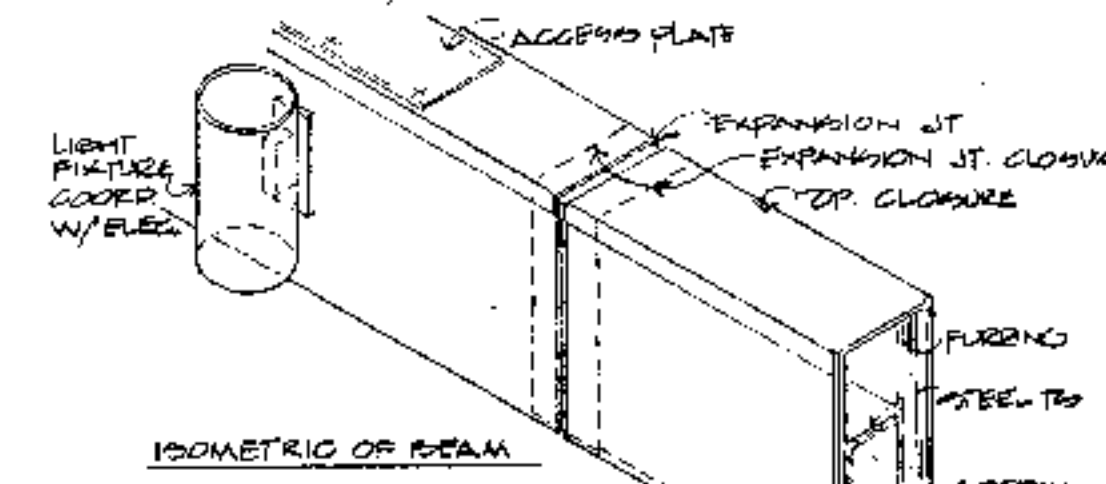
A-12



LONGITUDINAL SECTION A-A
1/16" = 1' - 0"



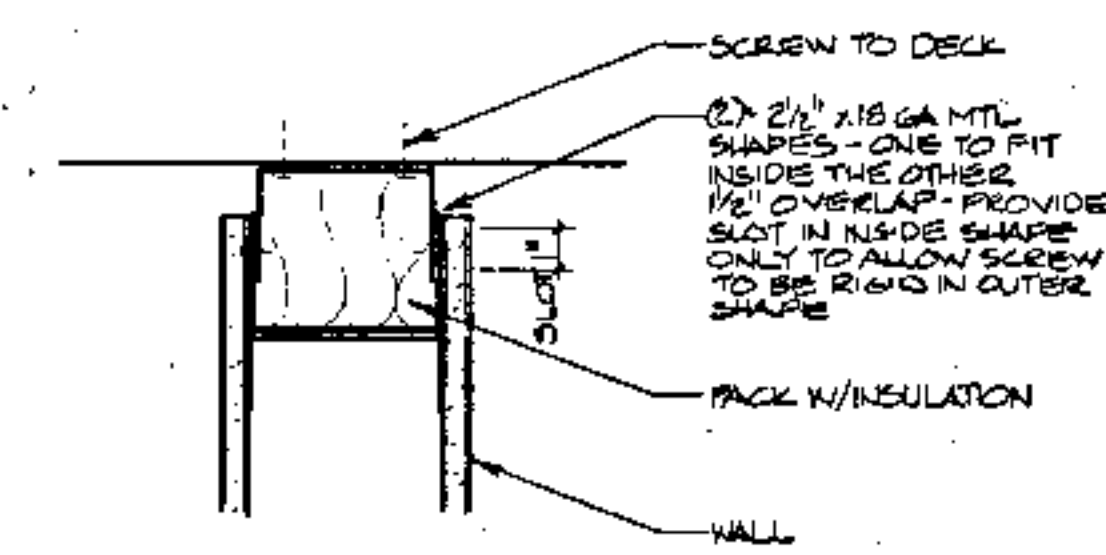
TRANSVERSE SECTION B-B
5/8" = 1' - 0"



15 GA. GALV. STEEL AT BOTH SIDES
BEND TO WRAP AT BOTTOM IN MIN LAP
AS SHOWN. RUN UP AND FACES OVER
FLOORING. AT TOP, LAP BEAMS METAL
CLOSURE OVER OUTSIDE FACE.
UNION FOR AT LIGHT FIXTURES
EXPANSION JOINTS TO OCCUR EVERY
7'-0" ALONG W/ SPACE FRAME MODULE
ABOVE; WHERE EXPANSION JOINTS OCCUR
WRAP BEAM/FLOORING W/ 4" WIDE
FLEXIBLE METAL CLOSURE TO PROVIDE
BACKING BEHIND JOINT - FLOORING ATTACHED
TO OCCUR AT EACH SIDE OF THIS CLOSURE
PER SOLID BACKING
LIGHT FIXTURES BY ELECTRICAL. BLOCK SOLID
W/ FLOORING BEHIND LIGHT FIXTURE LOCATIONS
FOR BACKING AT MOUNTING BRACKETS
PAINT ALL EXPOSED SURFACES

1/2" METAL FLOORING @ 10" O.C. PA. SIDE
X" BELOW & 3/8" O.C. TOP
BREAK SHAPE CLOSURES TYPICAL
ALONG TOP AND BOTTOM - PROVIDE
REMOVABLE ACCESS PLATES AT
LOCATIONS OF ELECTRICAL J-BOXES
ETC. - OPENING SIZE TO BE MIN 18" LONG
BY ALLOWABLE WIDTH. PROVIDE MIN.
3" FASTENING SCREWS AT EACH PLATE
LOCATION - MIN EDGES AROUND OPENING
2" x 1/2" x 1/8" LONG TO SERVE AS
REINFORCING AT EACH REMOVABLE
PLATE LOCATION. RUN ALONG & BOTH ENDS
OF OPENING
SPOT WELD METAL FACE PLATE TO FLOORING
3" TOP MIN & WELD PER SIDE
STEEL TO 1/2" x 3/4" x 1/8" - SEE STRUCTURAL
FOR CONNECTION TO CONCRETE COLUMN
BEYOND
SPOT WELD FLOORING TO STEEL TO BEAM -
MIN. TOP BOTTOM 1" CENTER AT EACH SIDE
AND SPOT WELD CLOSURE ON SIDE (TOP
& BOTTOM)
WEED HOLES AT BOTTOM EVERY 24" O.C.
POP RIVERS @ BOTTOM @ 1/2" O.C. EACH SIDE

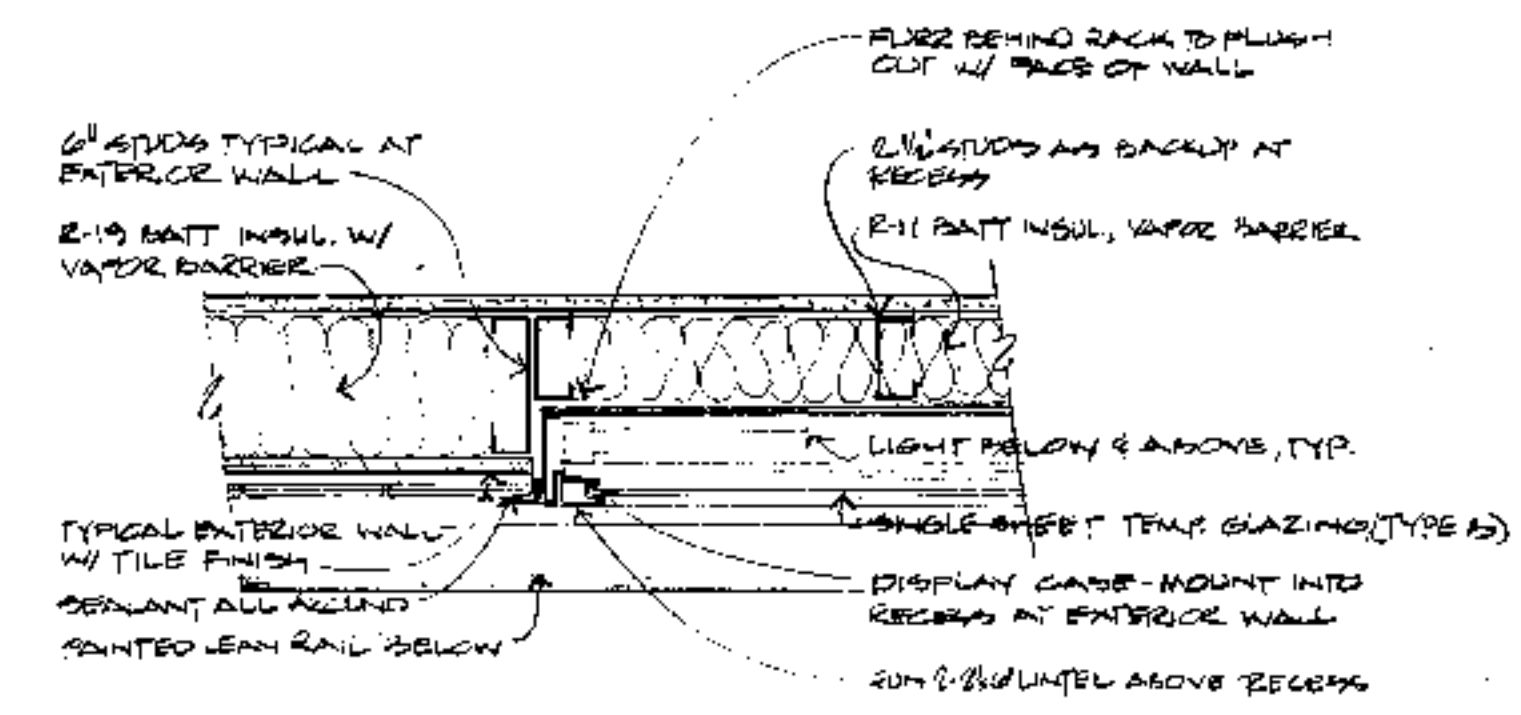
1 METAL WRAP LIGHTING AT BEAMS
1/4" = 1' - 0"



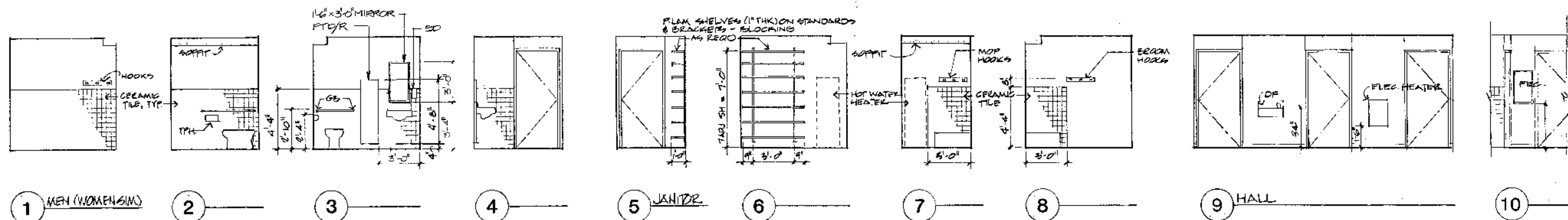
4 TOP OF FULL HGT. WALL
5/8" = 1' - 0"

2 RUSTICATION JT. AT CONC. COLUMNS
3/8" = 1' - 0"

RUSTICATION JOINTS
TYPICAL & PLACED AT
EACH CONC. COLUMN
FIN FLOOR LEVEL
AT TRANSIT GATEWAY

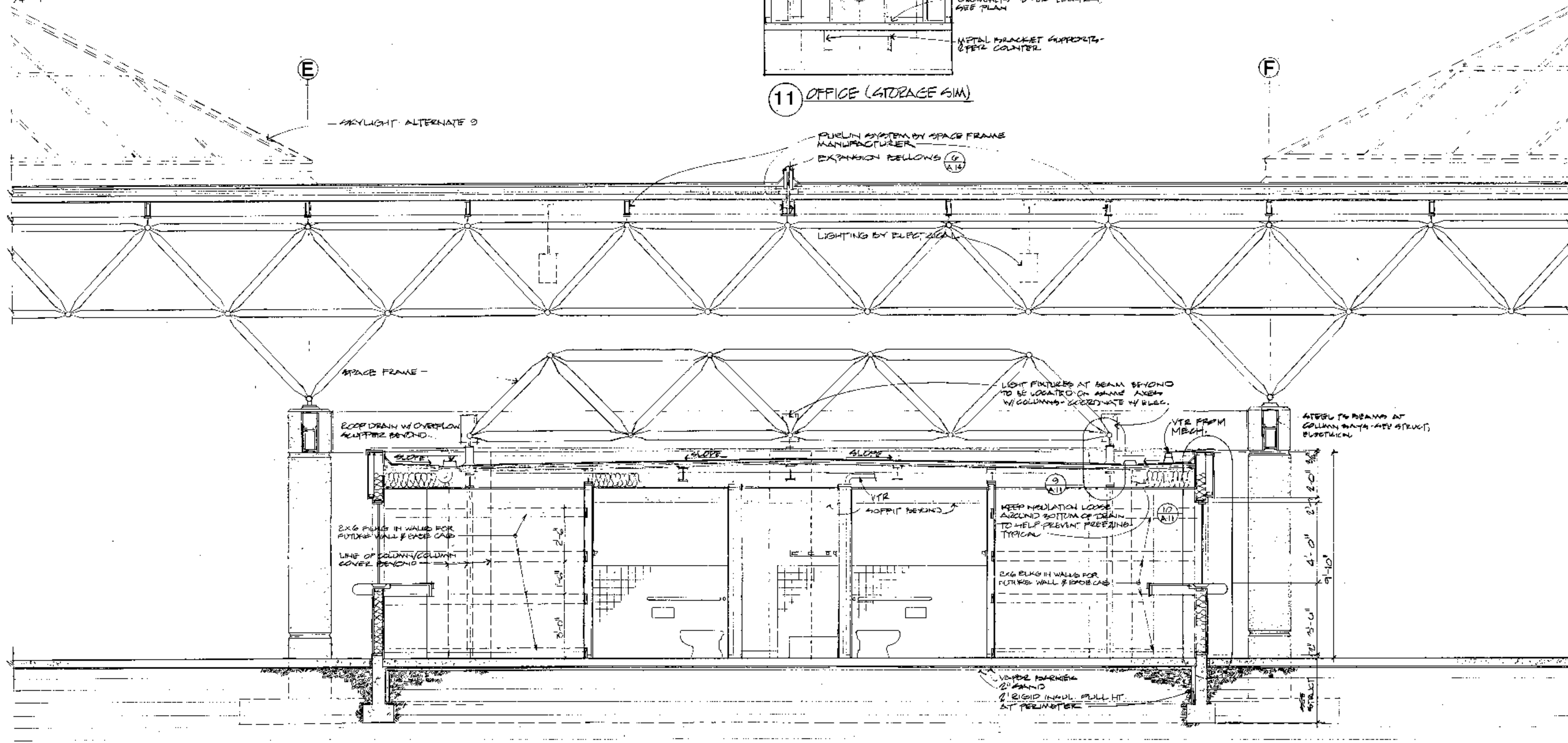


3 DISPLAY CASE
1/4" = 1' - 0"



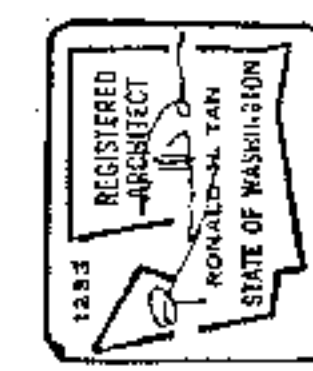
INTERIOR ELEVATIONS

1/4" = 1'-0"



LONGITUDINAL SECTION C-C

3/8" = 1'-0"



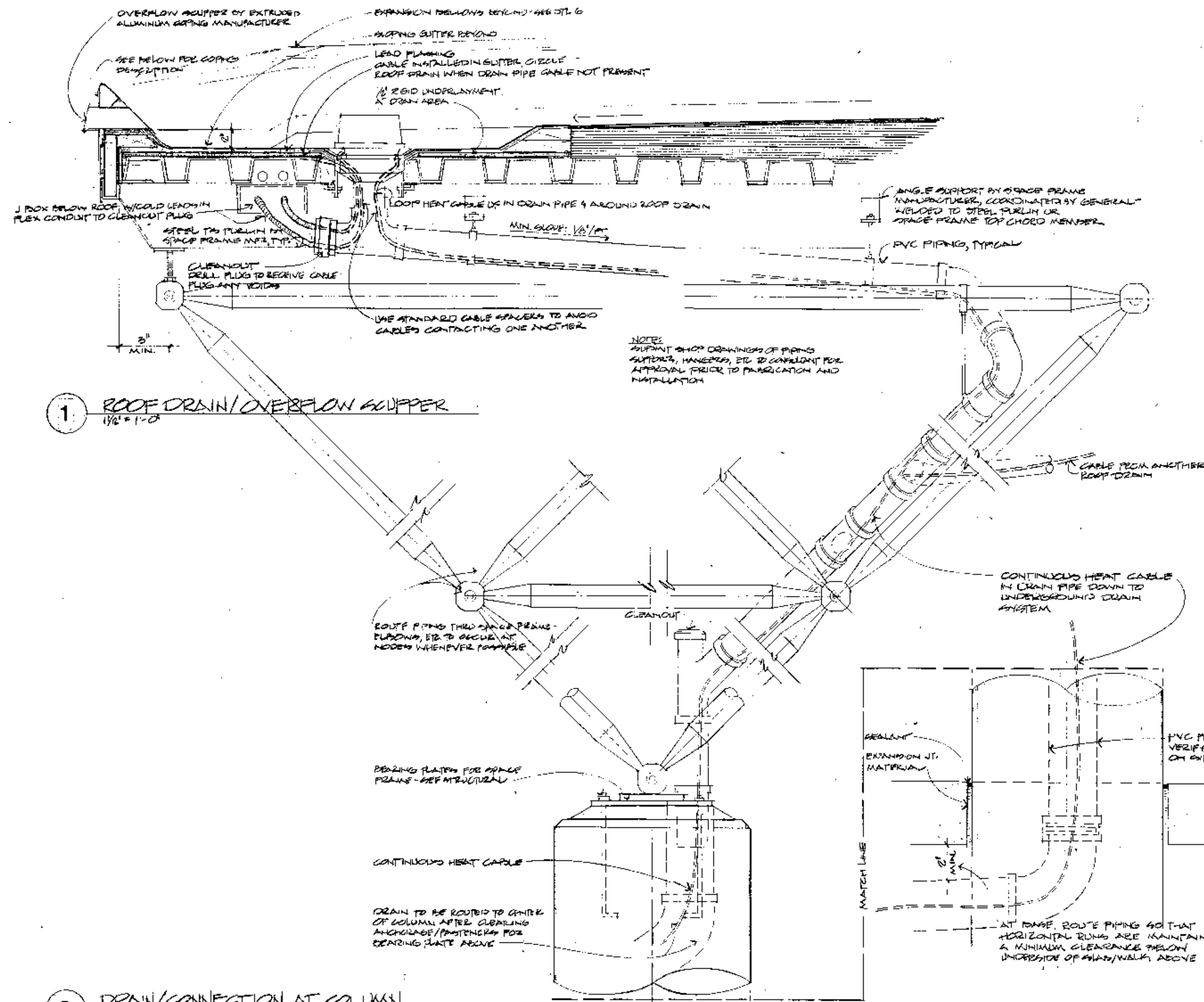
TAN BOYLE KEVAMOTO ARCHITECTS IN ASSOCIATION WITH KIRKWOOD ARCHITECTS AND ASSOCIATES
 NORTH 117 1/2 HOWARD STREET
 SPOKANE, WASHINGTON 99201
 (509) 456-8848

SPOKANE TRANSIT AUTHORITY
 VALLEY TRANSIT CENTER
 FORTH AVENUE & UNIVERSITY ROAD
 SPOKANE, WASHINGTON

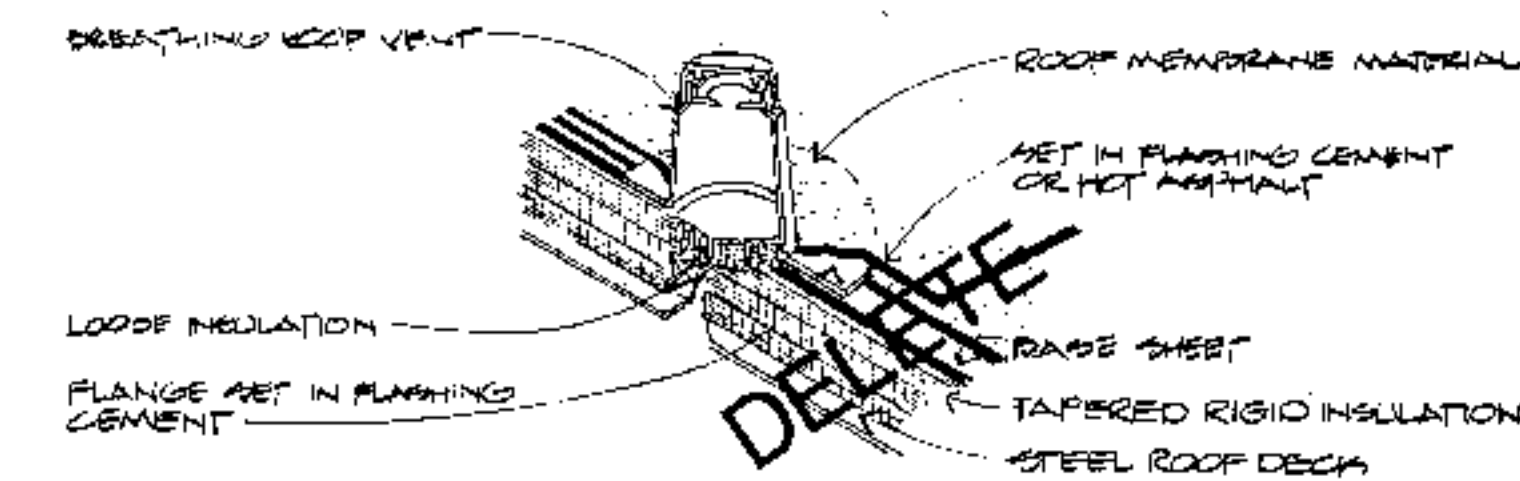


PROJECT NO. 8703
 DRAWN GG
 CHECKED MRR
 DATE 9/16/88

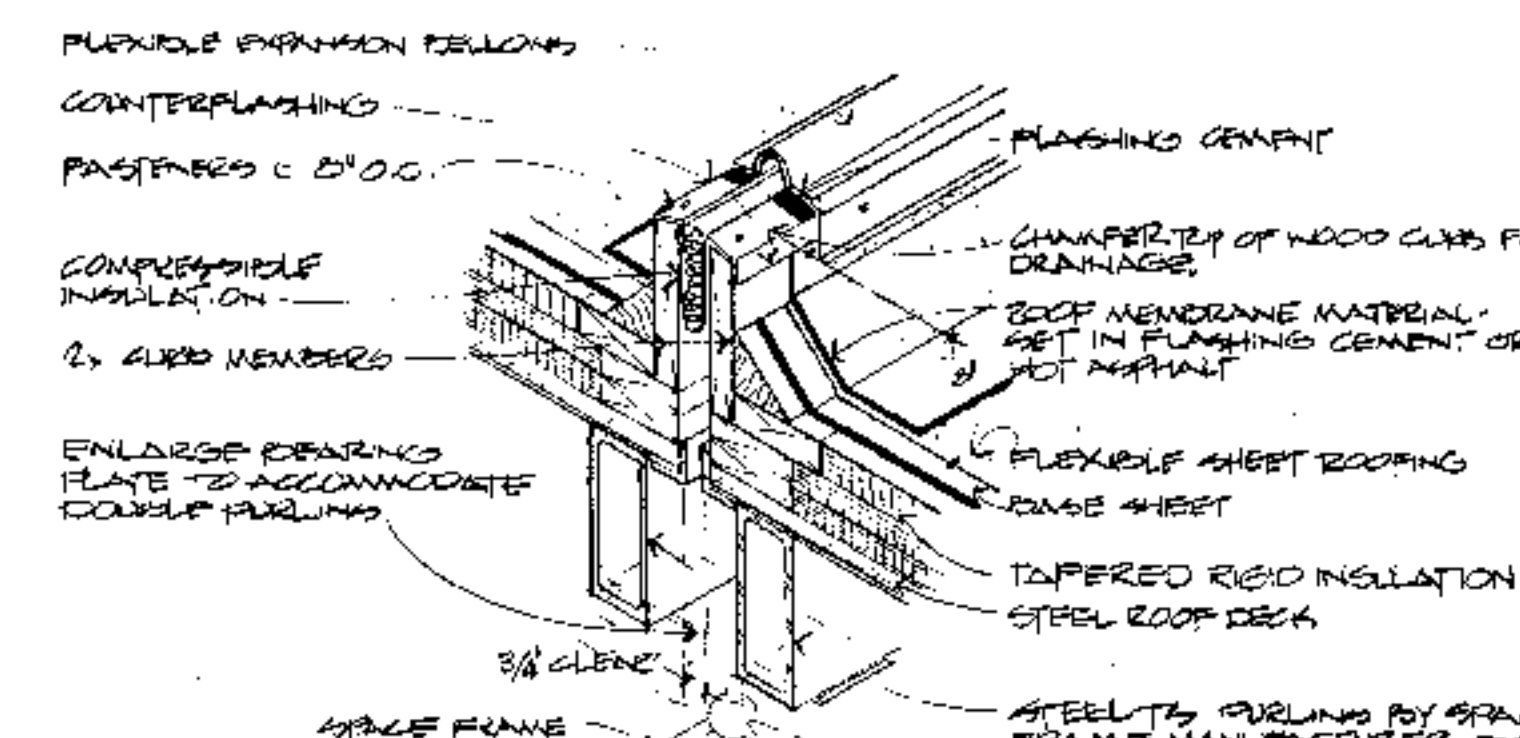
A-13



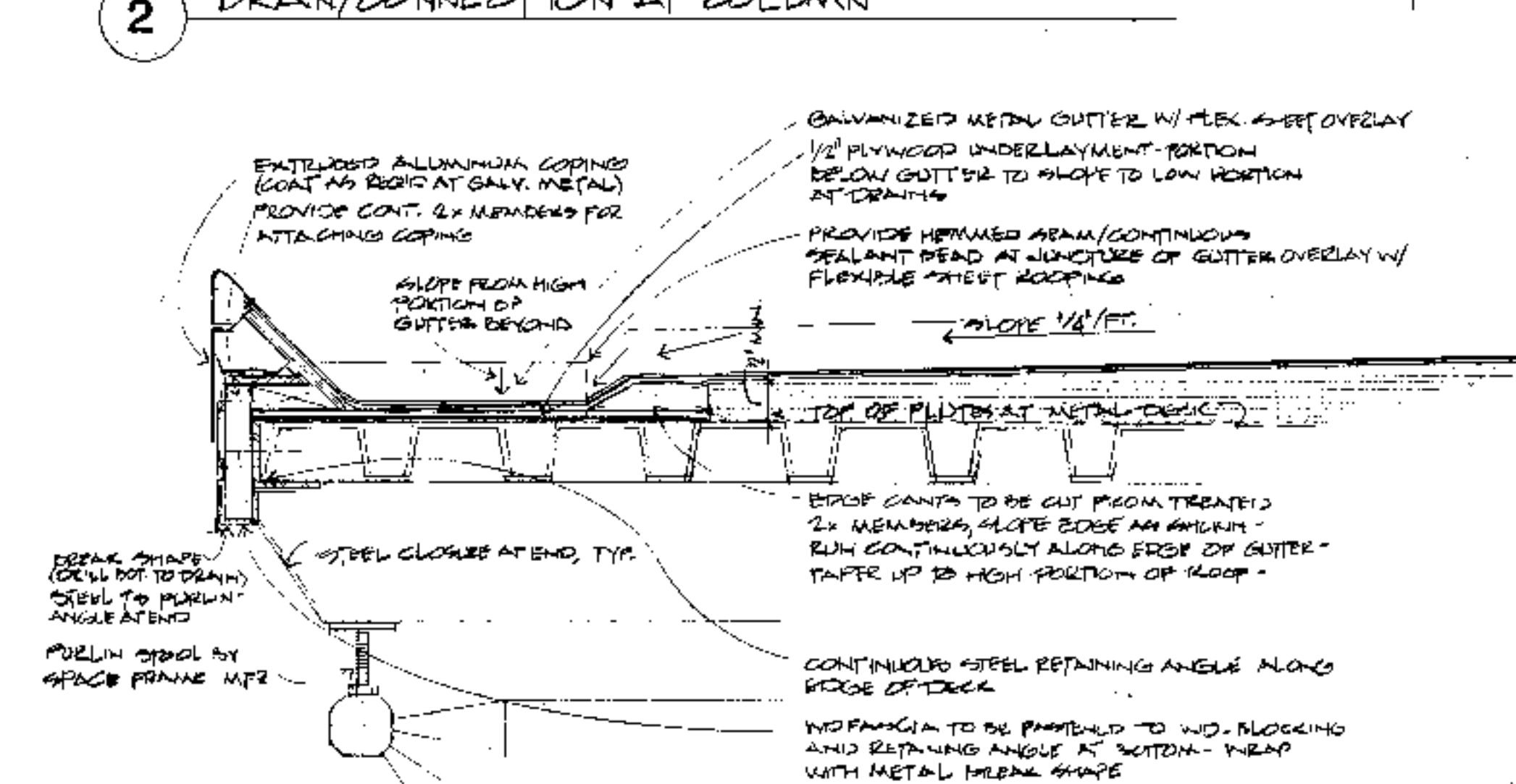
1 ROOF DRAIN/OVERFLOW SCUPPER
1/4\"/>



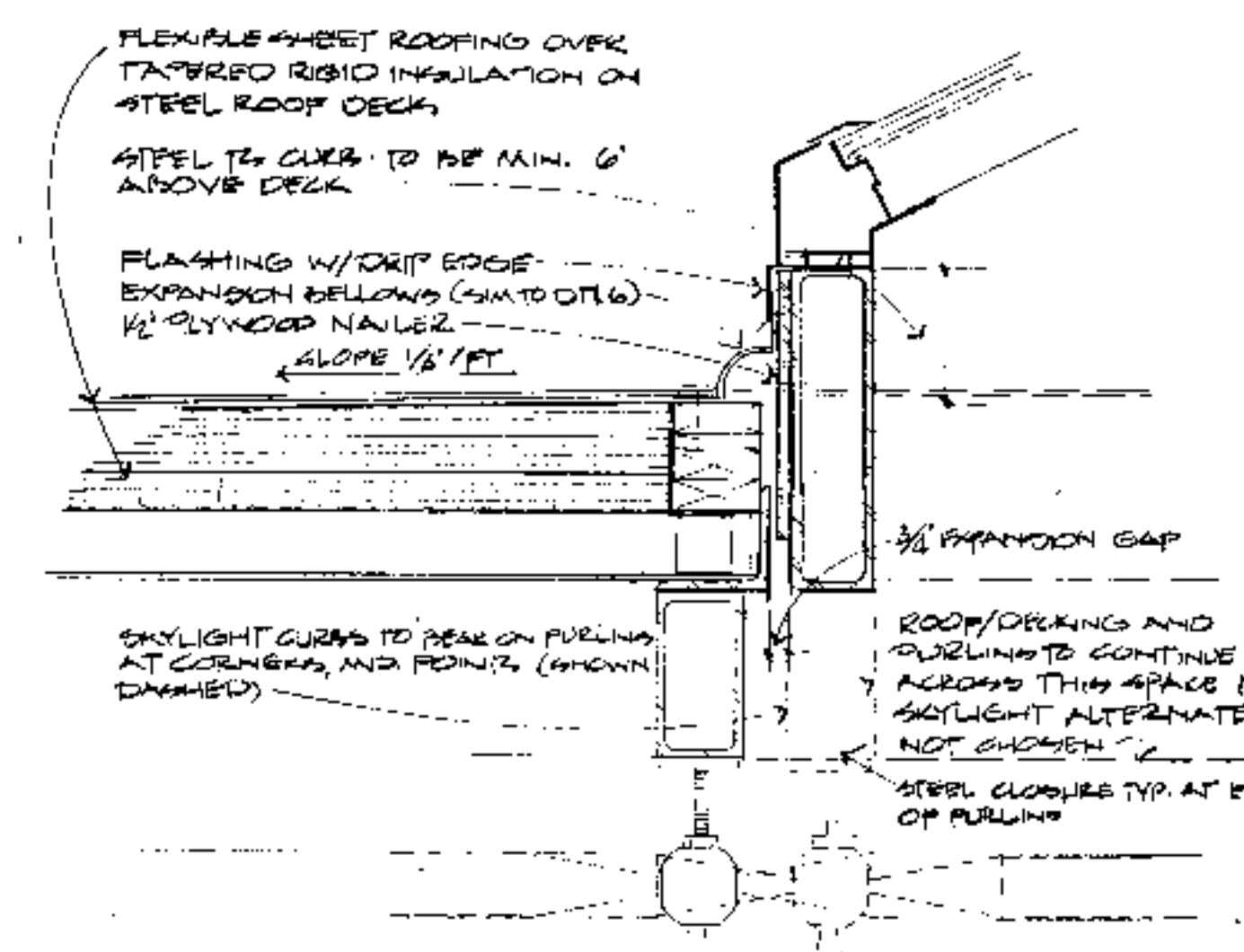
5 BREATHING VENT AT ROOF
ISOMETRIC - NO SCALE



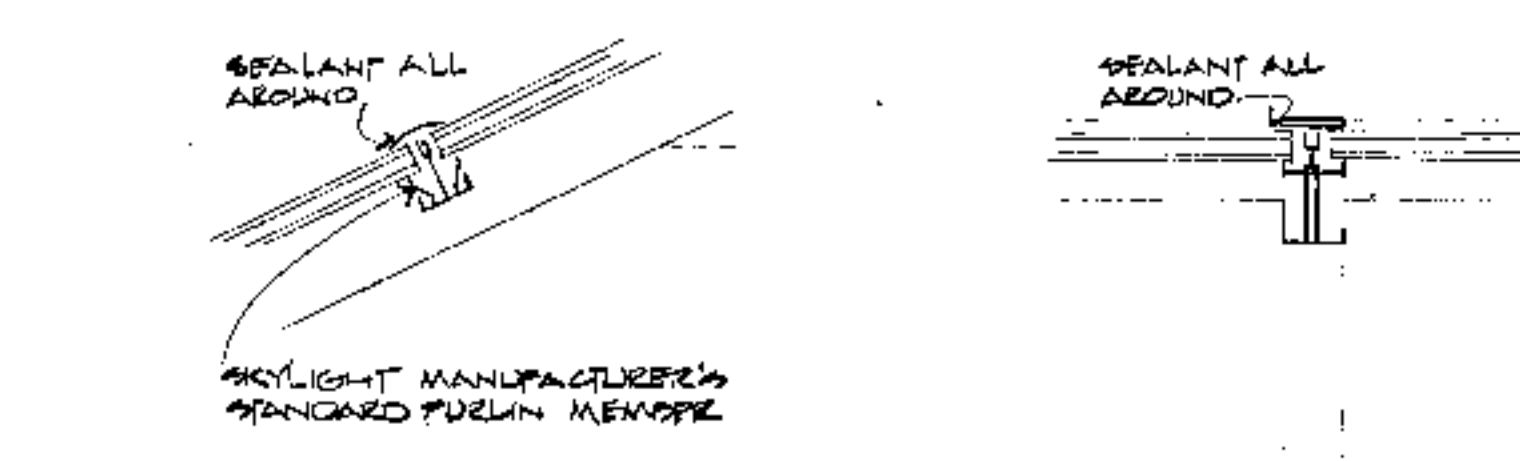
6 EXPANSION BELLONDS-ROOF JOINT COVER
ISOMETRIC - NO SCALE



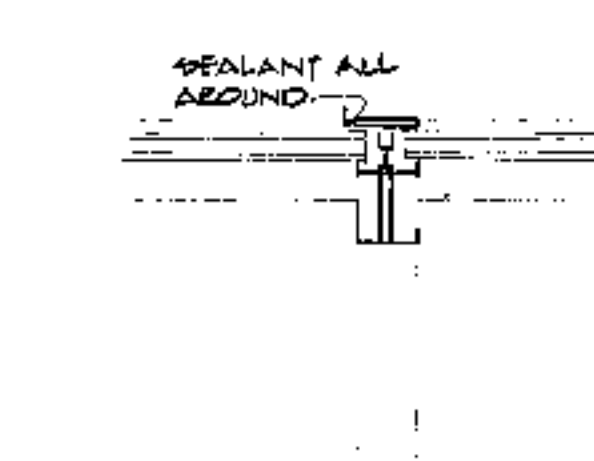
3 TYPICAL FIVE
1/4\"/>



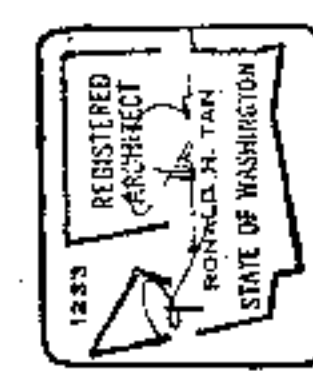
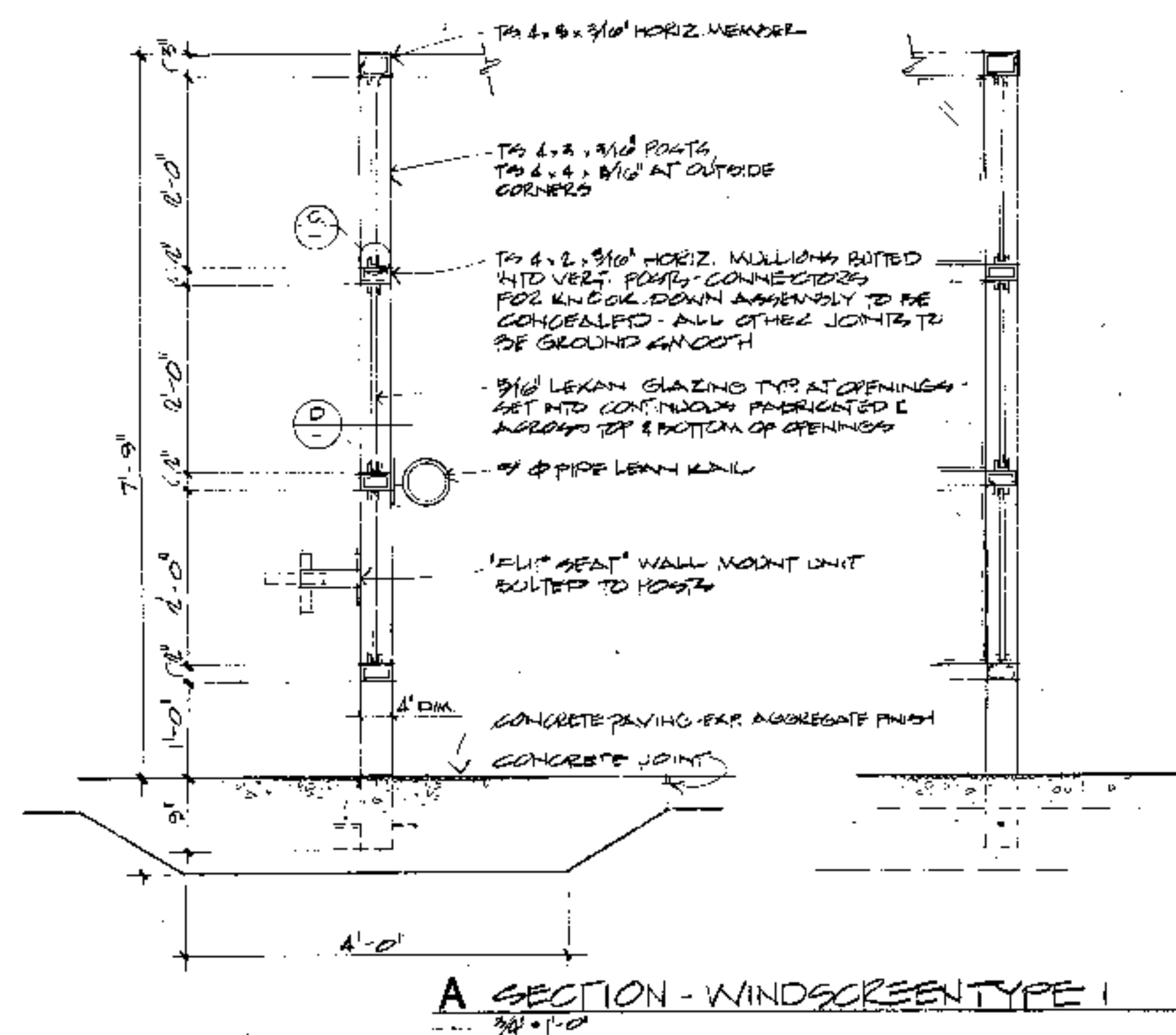
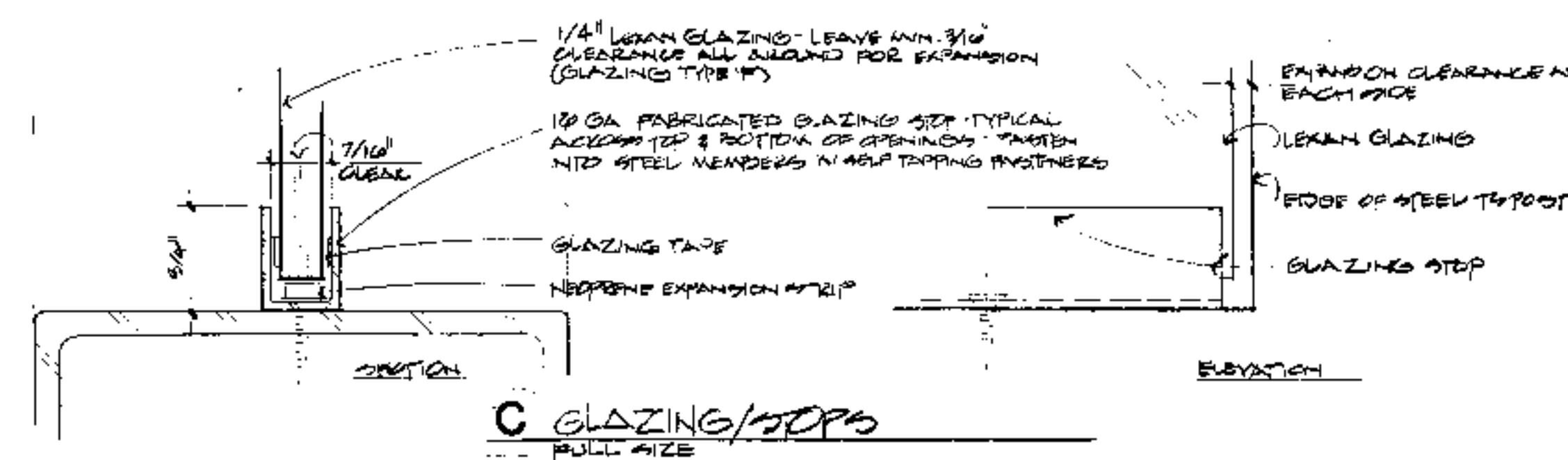
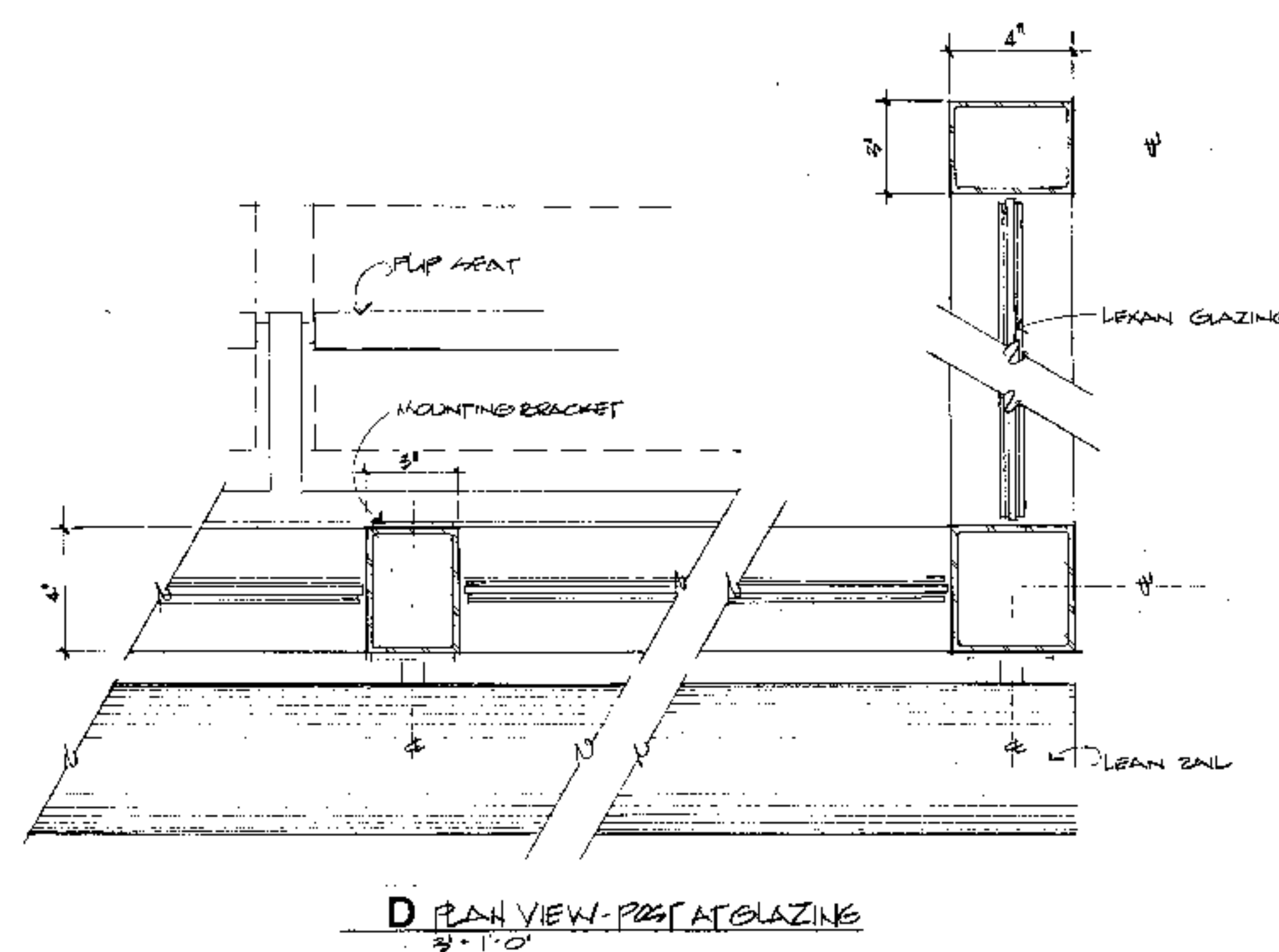
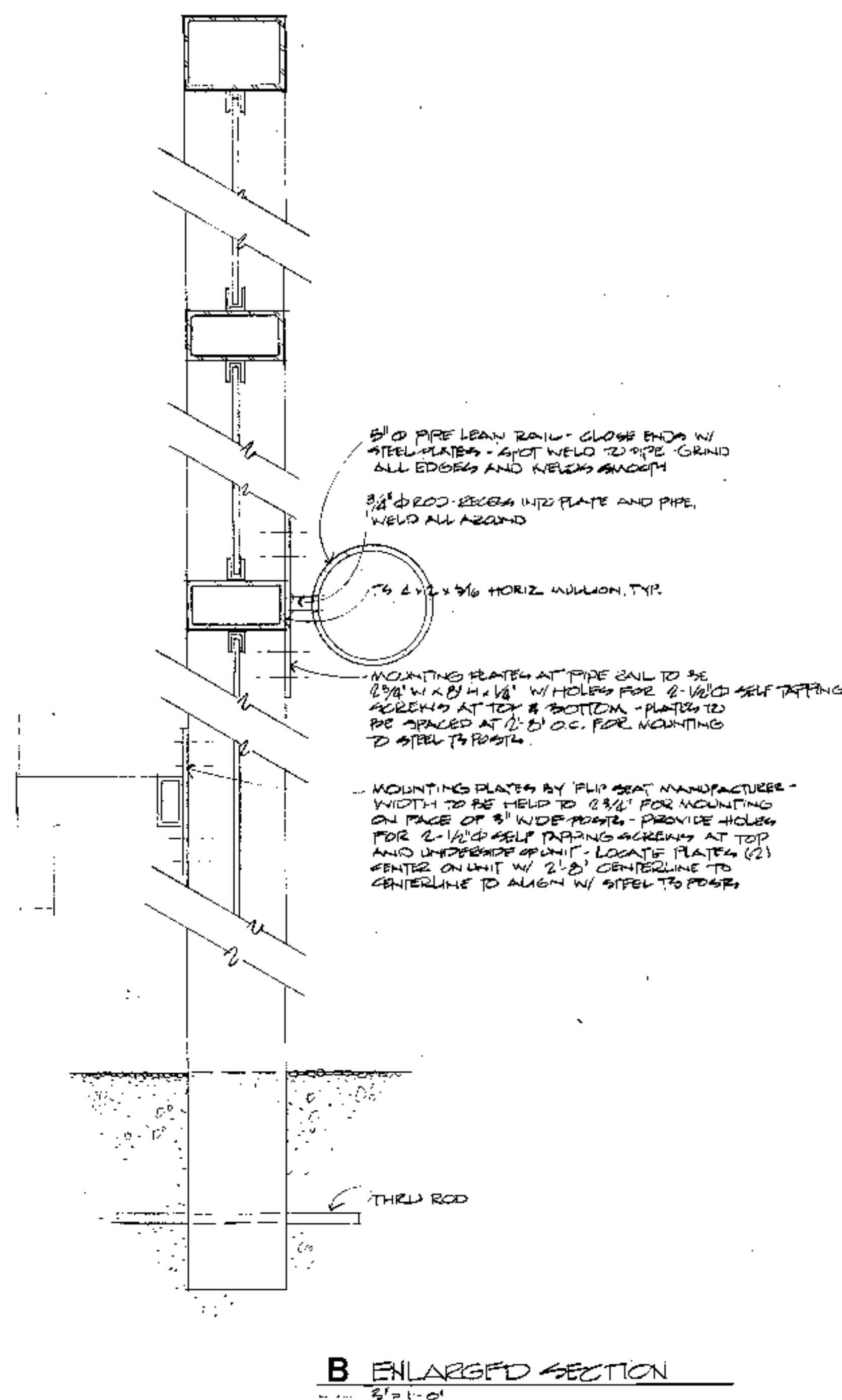
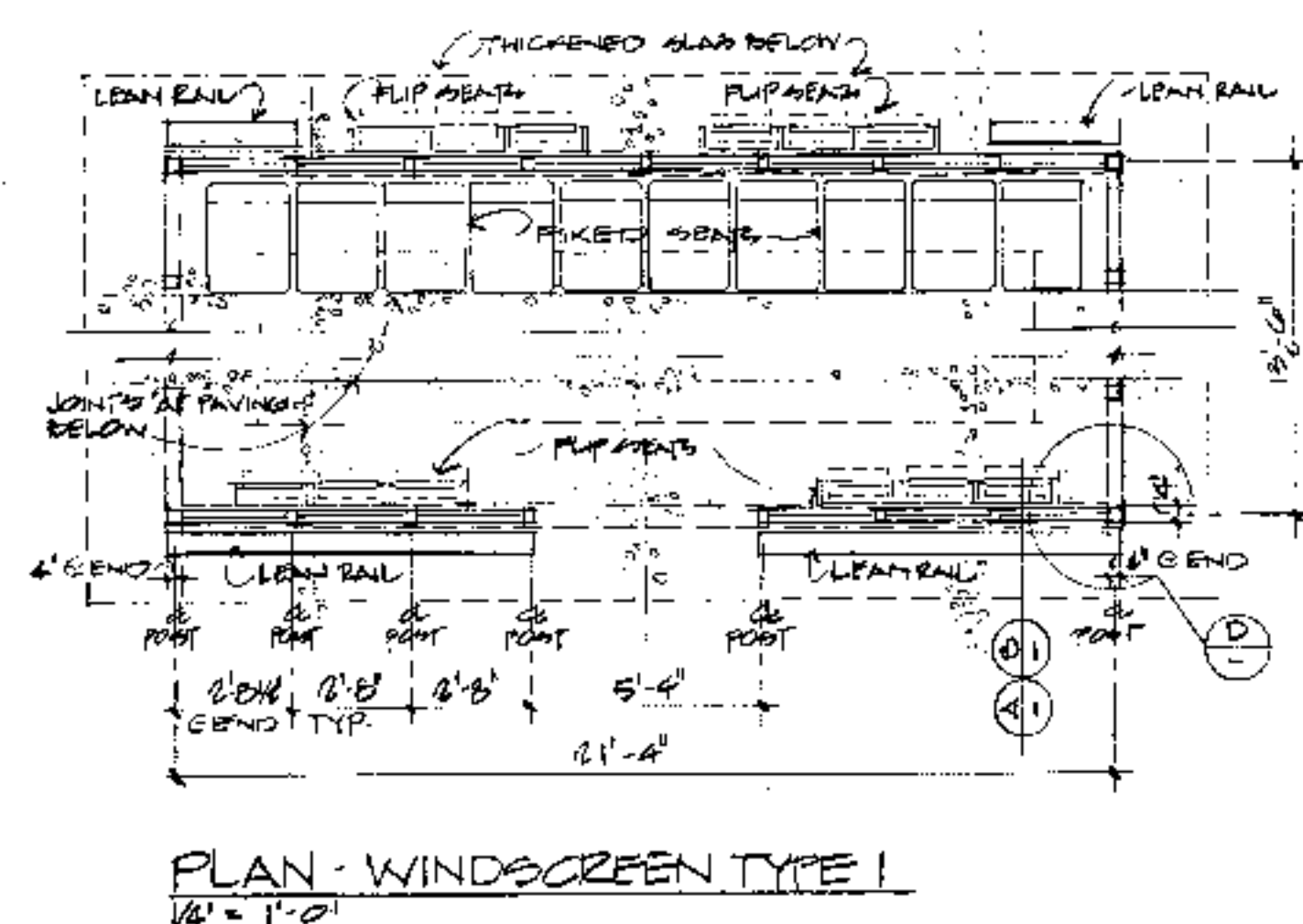
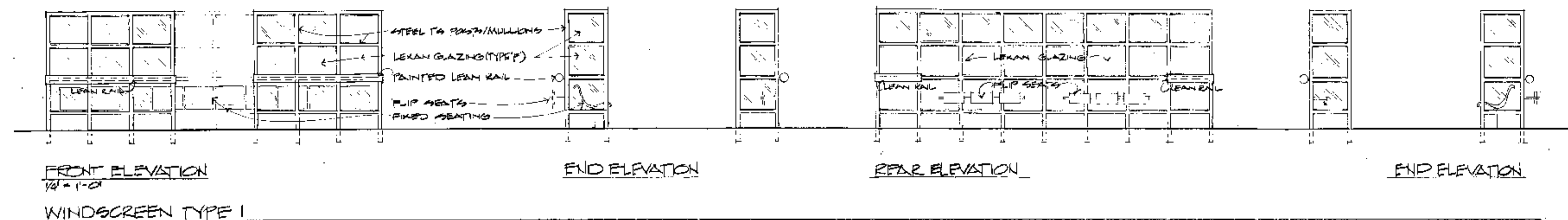
4 SKYLIGHT CURB (ALTERNATE 3-5)
1/4\"/>



7 PURLIN (ALTERNATE 3-5)



8 RAFTER (ALTERNATE 3-5)



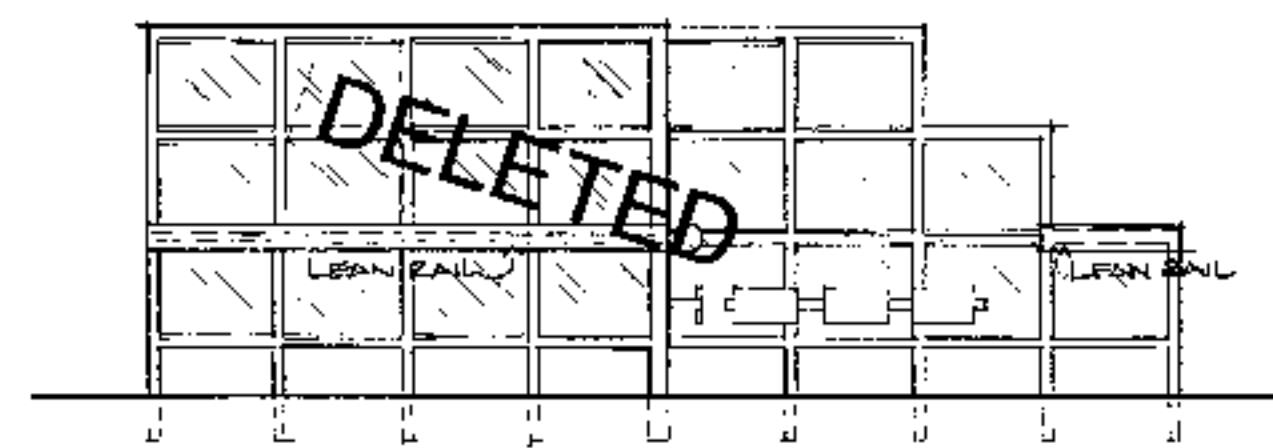
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SPOKANE, WASHINGTON



PROJECT NO. 8703
DRAWN: GG
CHECKED: MRB
DATE: 5/16/88

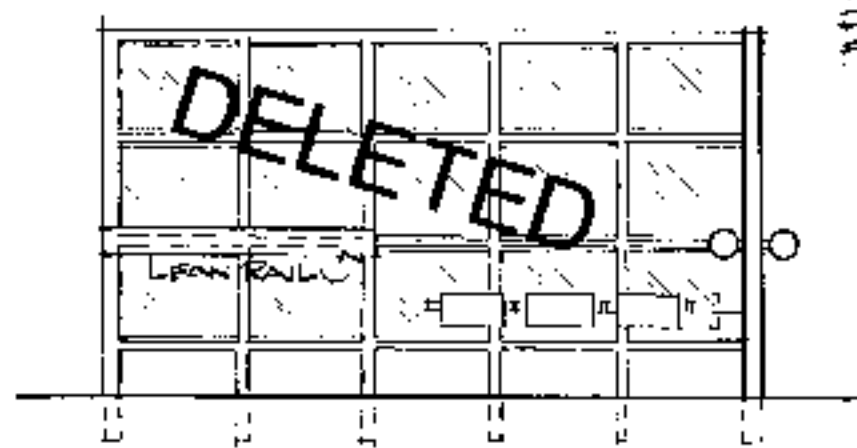
A-15



FRONT ELEVATION

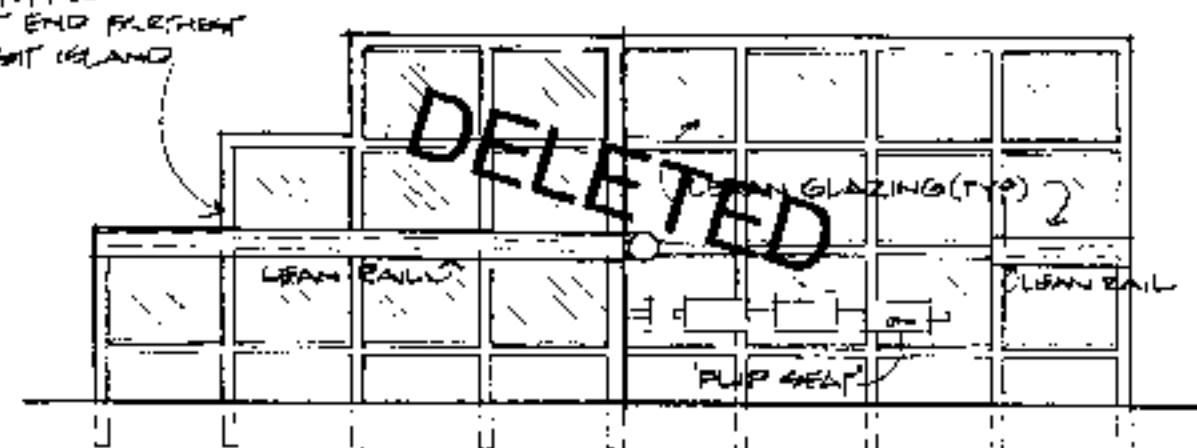
1/4" = 1'-0"

WINDSCREEN TYPE 2

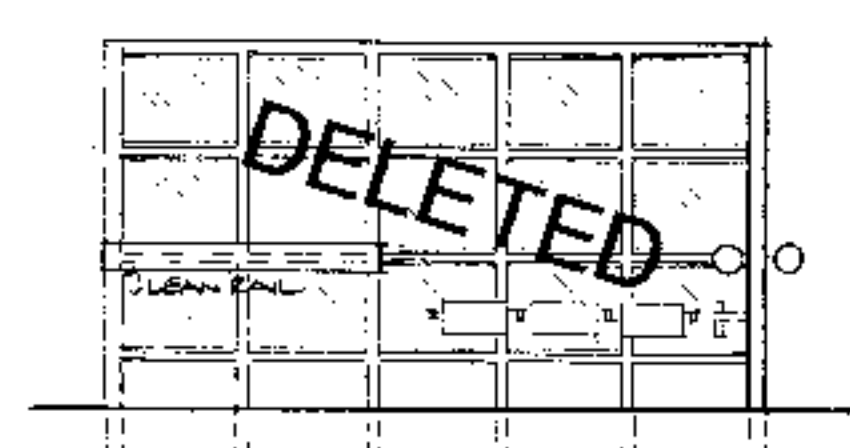


END ELEVATION

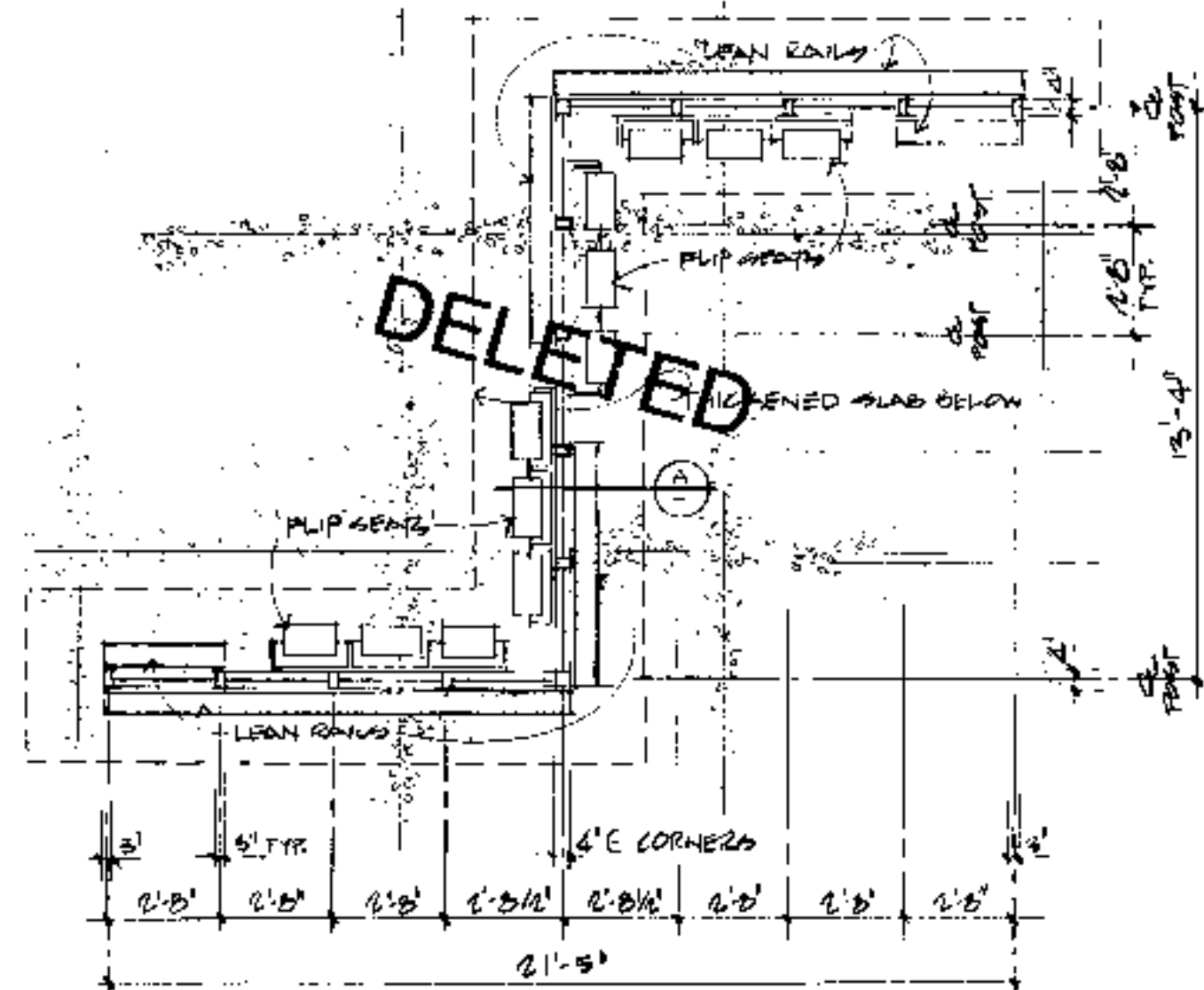
WINDSCREEN TO BE STEPPED DOWN AS INDICATED AT END ELEVATION FROM CENTER OF TRANSIT ISLAND



REAR ELEVATION



END ELEVATION



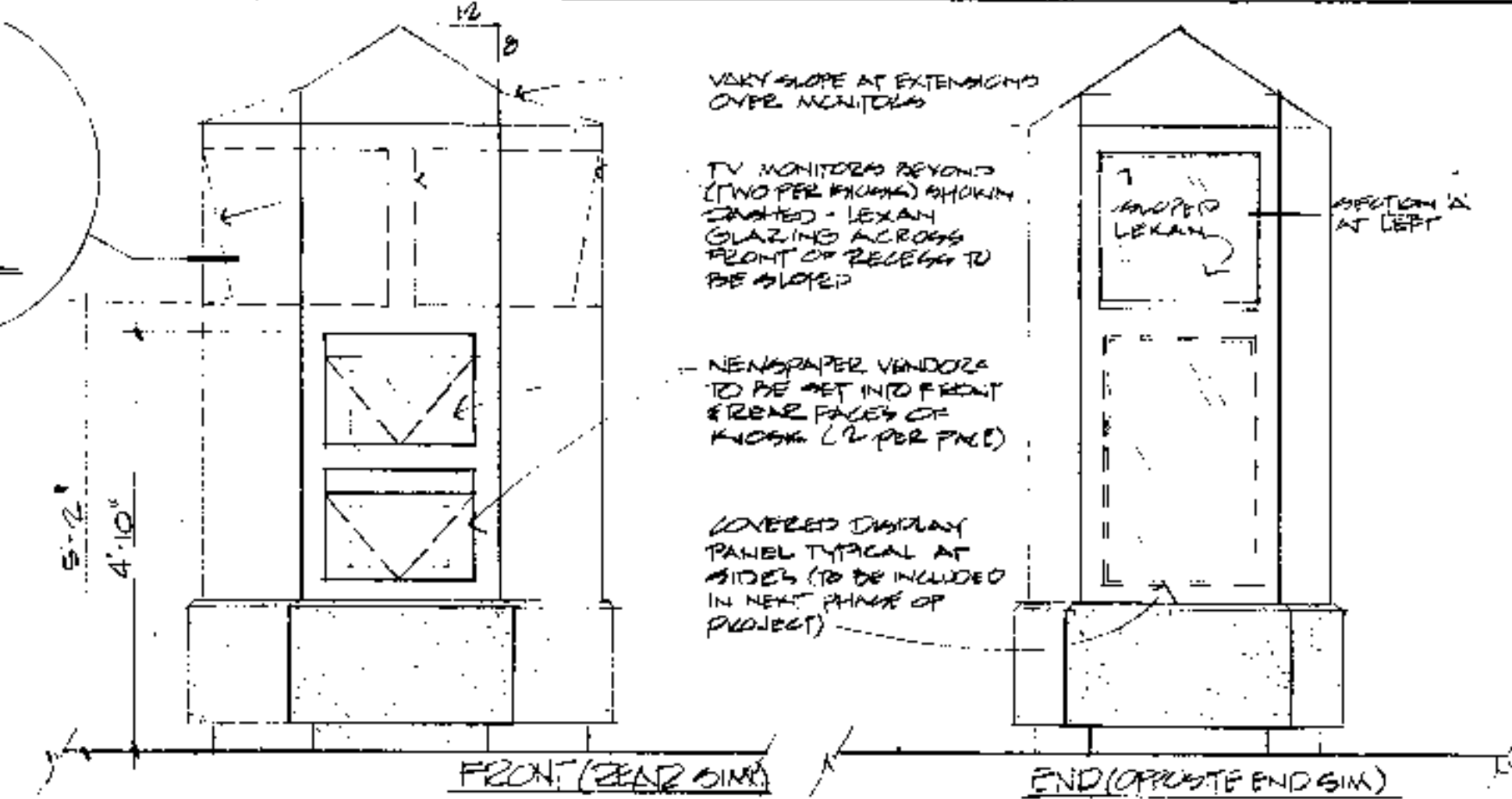
PLAN - WINDSCREEN TYPE 2

1/4" = 1'-0"

ADD #2
Pg #7

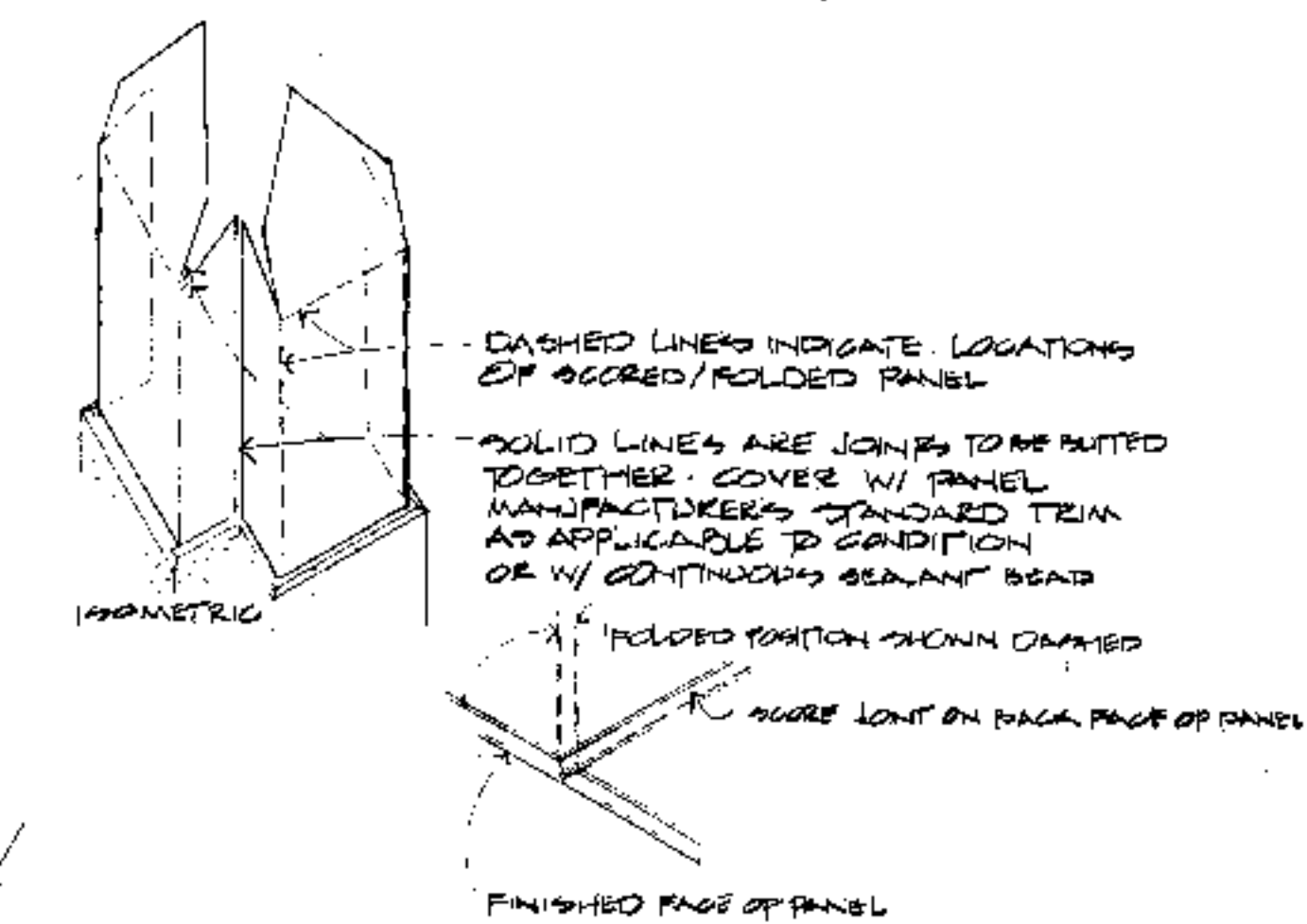
21. Sheet A-16, Kiosk elevations, provide the following: Provide one (each kiosk location) digital clock as manufactured by Electric Time Co., Inc., Sweets 16700/EL2, Simplex or equal. The following specification is supplied by Electric Time Co., Inc.
22. Flush Mounted - 12ER FDC 1812
23. 18" seven segment red LED display
24. 115V-60 HZ
25. Secure to kiosk wall panels with 4 mounting screws #6-32 x 1/2" lg. Flush to match panel. Panel size 10" x 6-3/4" H. Matte black finish. Refer to Attachment No. 12.

ADJACENT METAL PANEL ALL SLOPED LEAN GLAZING. TOP/PLANE MOMENTALLY ADJACENT LEAN GLAZING TO BE HINGED FOR ACCESS TO MONITORS W/ SECURITY LOCK. METAL PANELS TO WEAP REMAINING CONTINUE AROUND PERIMETER OF RECORDS - SECTION A NO SCALE



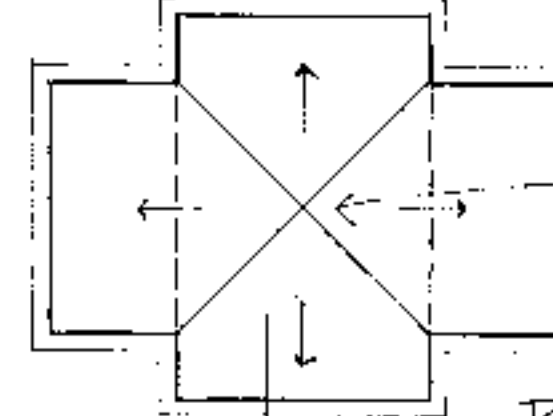
ELEVATIONS OF KIOSK

1/4" = 1'-0"

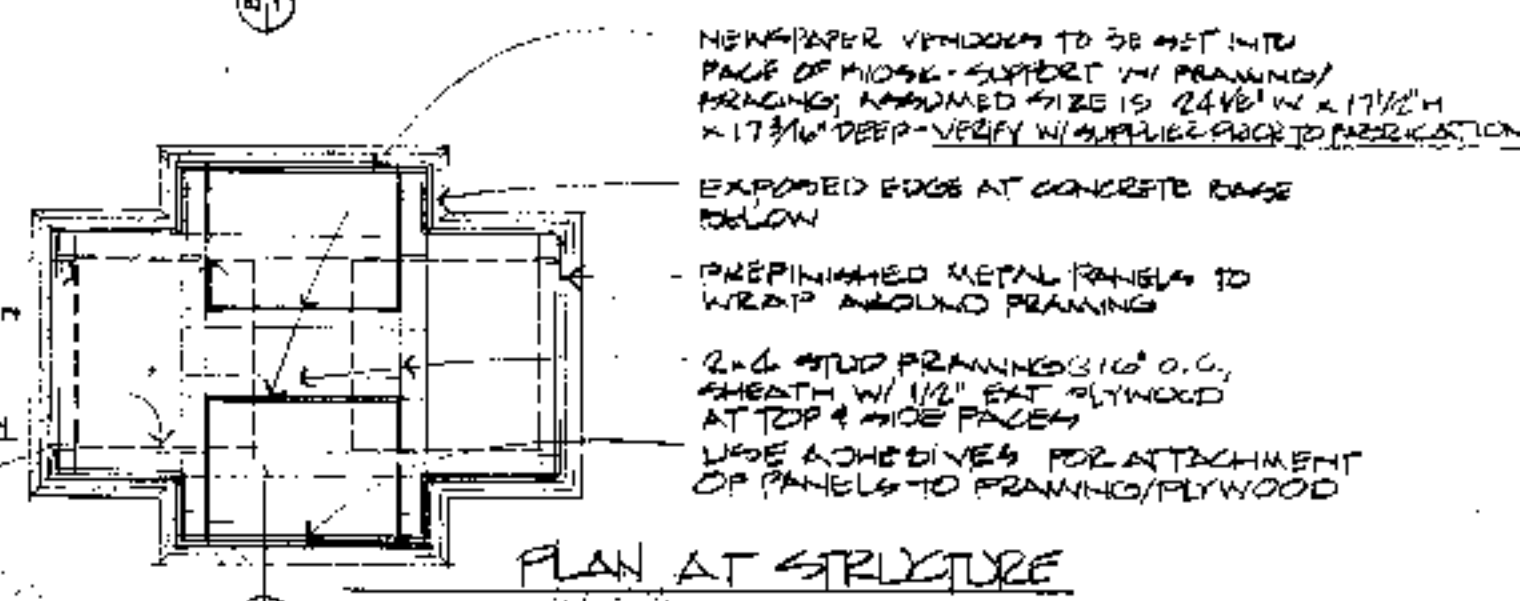


FOLDING PATTERN/SCORED JOINTS

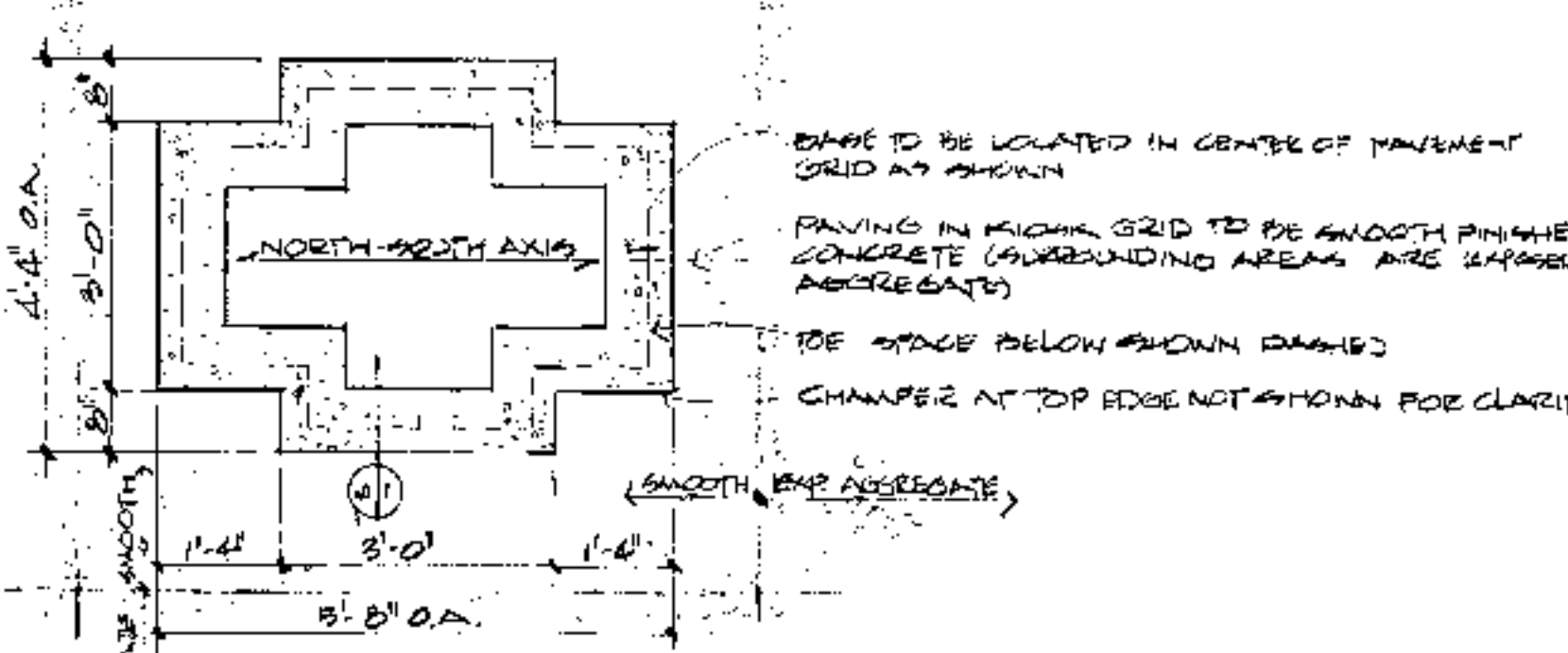
NO SCALE



TOP VIEW



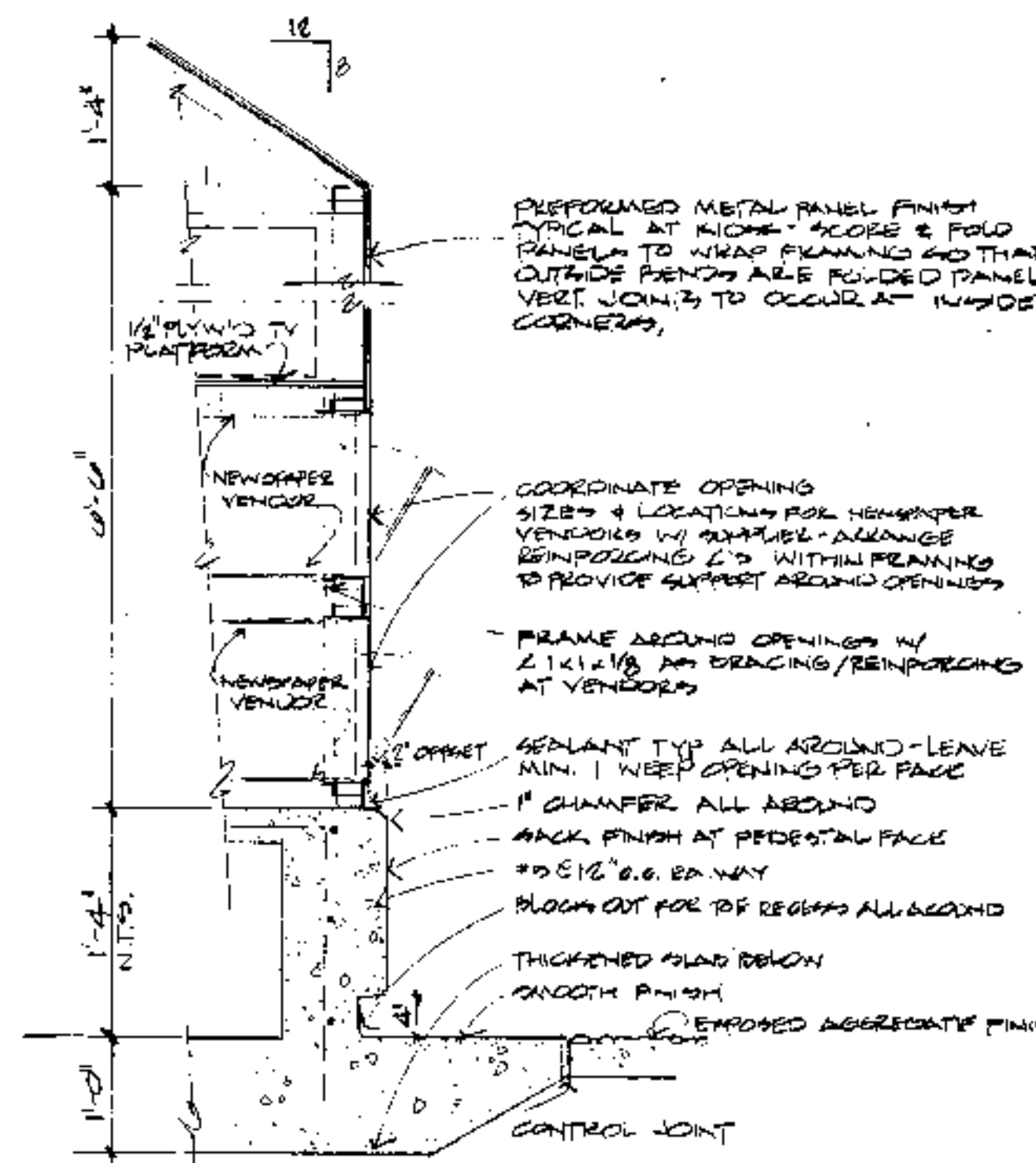
PLAN AT STRUCTURE



PLAN AT EDGE

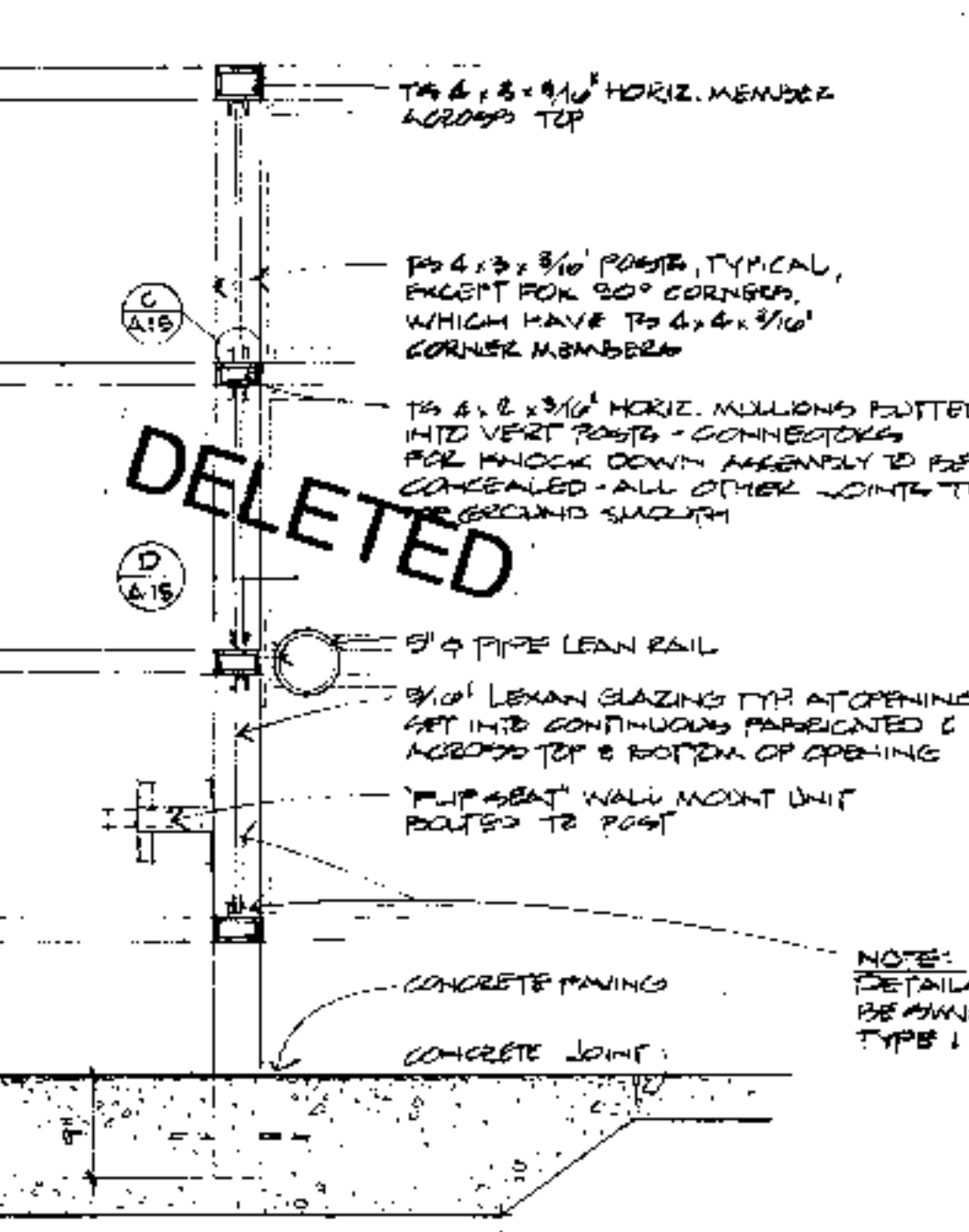
PLAN OF TYPICAL KIOSK (2 REQUIRED)

1/2" = 1'-0"



B SECTION THRU KIOSK

3/8" = 1'-0"



A SECTION AT WINDSCREEN TYPE 2

3/8" = 1'-0"

NOTE: DETAILS, CONNECTIONS, ETC. TO BE SIMILAR TO WINDSCREEN TYPE 1 ON SHEET A-15

COORDINATE W/ ELECTRICAL FOR TV MONITORS CONTROLS, ETC. TV MONITORS W/ LEAN GLAZING AROUND FRONT OF OPENING SHOWN DAMAGED - ASSUMED SIZE OF TV UNIT IS 24" W X 17" H X 17" D. VERIFY SIZE AND LOCATION FOR ELECTRICAL CLEARANCES REQUIRED.

NEWSPAPER VENDOR TO BE SET INTO FACE OF KIOSK - EXPOSED W/ FRAMING/ HANGING. APPROXIMATE SIZE IS 24" W X 17" H X 17" D. VERIFY SIZE AND LOCATION FOR ELECTRICAL CLEARANCES REQUIRED.

EXPLODED EDGES AT CONCRETE BASE FOLLOW

PREPARED METAL PANELS TO WEAP AROUND FRAMING

2-6" RATED FRAMING (10" O.C.) SHEATH W/ 1/2" EXT. PLYWOOD AT TOP & SIDE FACES

USE 4 JOINTS FOR ATTACHMENT OF PANELS TO FRAMING/PLYWOOD

BASE TO BE LOCATED IN CENTER OF PAVEMENT GRID AS SHOWN

PAVING IN KIOSK GRID TO BE SMOOTH FINISHED CONCRETE (SURROUNDING AREAS ARE UNFINISHED AGGREGATE)

10" SPACE BELOW SHOWN DAMAGED

CHAMFER AT TOP EDGE NOT SHOWN FOR CLARITY

THICKENED SLAB BELOW

SMOOTH FINISH

EXPLODED AGGREGATE FINISH

CONTROL JOINT

THICKENED SLAB BELOW

SMOOTH FINISH

EXPLODED AGGREGATE FINISH

CONTROL JOINT

THICKENED SLAB BELOW

SMOOTH FINISH

EXPLODED AGGREGATE FINISH

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CONTROL JOINT

THICKENED SLAB BELOW

SMOOTH FINISH

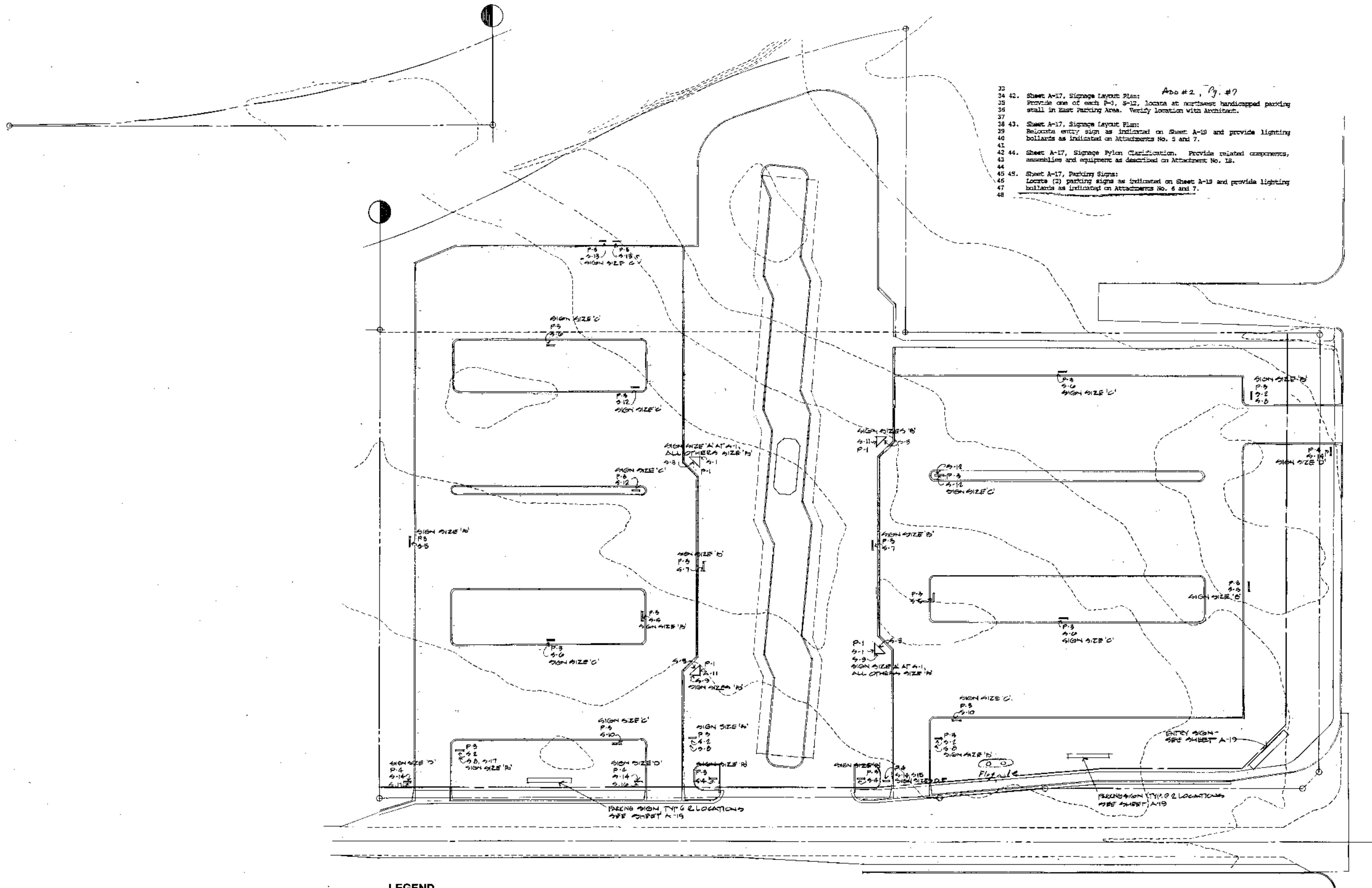
EXPLODED AGGREGATE FINISH

CONTROL JOINT

THICKENED SLAB BELOW

SMOOTH FINISH

EXPLODED AGGREGATE FINISH



- 32
34 42. Sheet A-17, Signage Layout Plan: Add #2, Pg. #7
35 Provide one of each P-3, S-12, locate at northeast handicapped parking
36 stall in East Parking Area. Verify location with Architect.
37
38 43. Sheet A-17, Signage Layout Plan:
39 Relocate entry sign as indicated on Sheet A-19 and provide lighting
40 bollards as indicated on Attachments No. 5 and 7.
41
42 44. Sheet A-17, Signage Pylon Clarification. Provide related components,
43 assemblies and equipment as described on Attachment No. 18.
44
45 45. Sheet A-17, Parking Signs:
46 Locate (2) parking signs as indicated on Sheet A-19 and provide lighting
47 bollards as indicated on Attachments No. 5 and 7.
48

LEGEND

SIGN SIZES ARE INDICATED ON A-18 → SIGN SIZE 'C'
SEE SHEET A-18 FOR PYLON/POST TYPES → P-3
SEE SHEET A-18 FOR SIGN TYPES - ARROW ON PLAN ABOVE POINTS TO SIDE ON WHICH TEXT IS TO APPEAR → S-10
ONE ON PLAN ABOVE IS SHOWN AT LOCATION WHERE SIGN IS TO OCCUR (TRIANGLES SHOWN WHERE PYLONS OCCUR)

SIGNAGE LAYOUT/PLAN



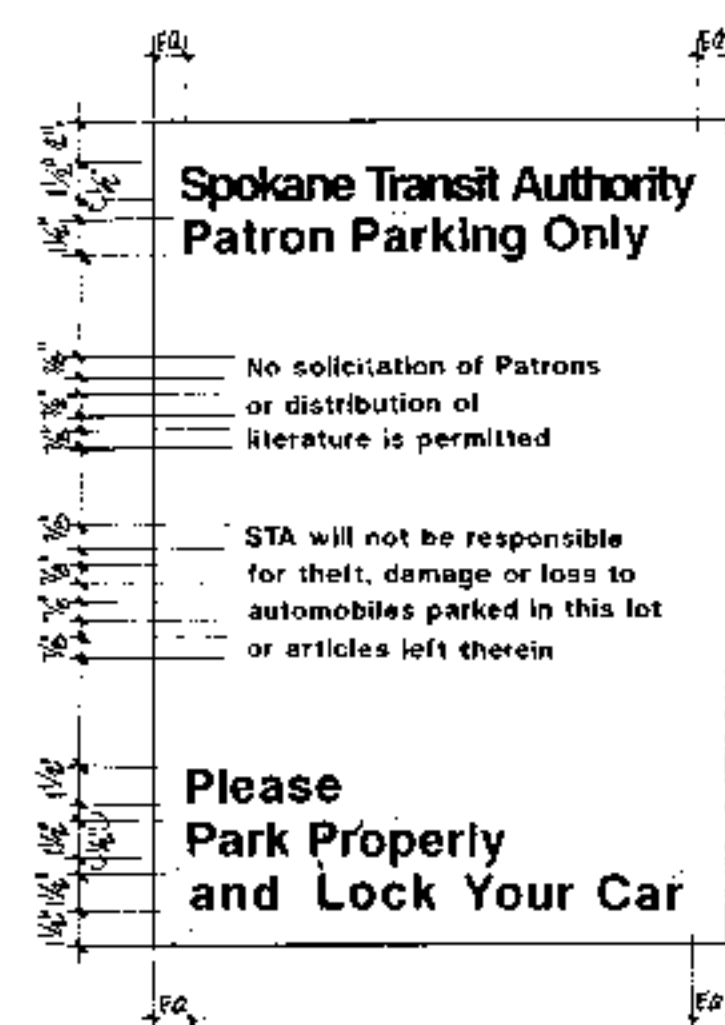
TAN BOYLE HEYAMOTO ARCHITECTS IN ASSOCIATION WITH KIRKWOOD ARCHITECTS AND ASSOCIATES
SUITE 715 SOUTH 9 WASHINGTON
SPOKANE, WASHINGTON 99204
(808) 488-8848

SPOKANE TRANSIT AUTHORITY
VALLEY TRANSIT CENTER
FORTH AVENUE & UNIVERSITY ROAD
SPOKANE, WASHINGTON

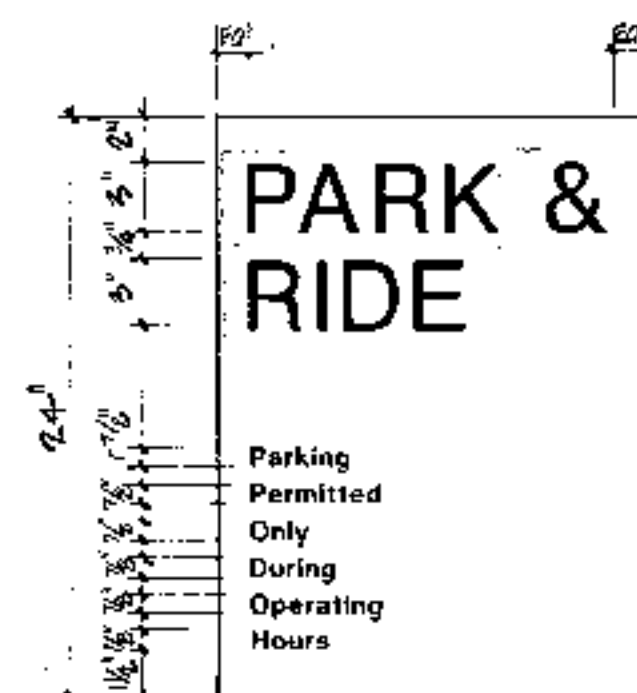


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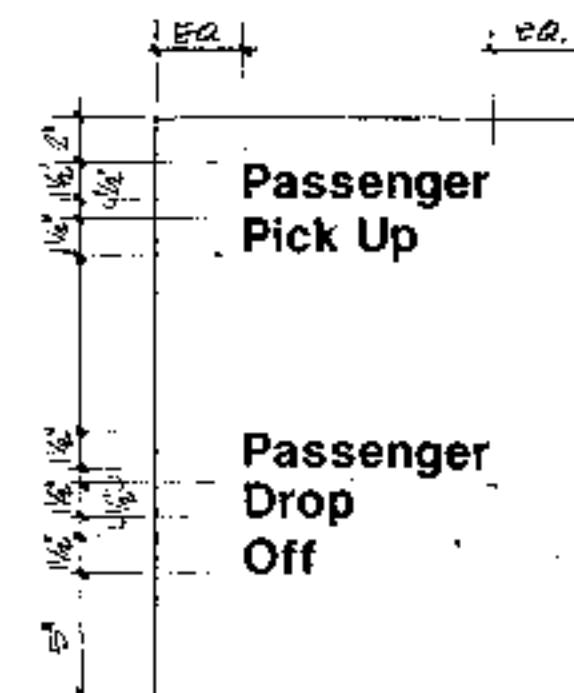
A-17



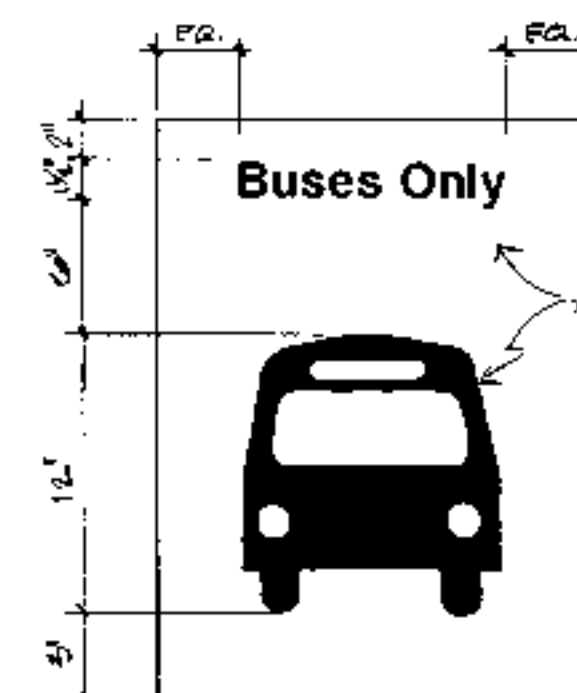
S-1



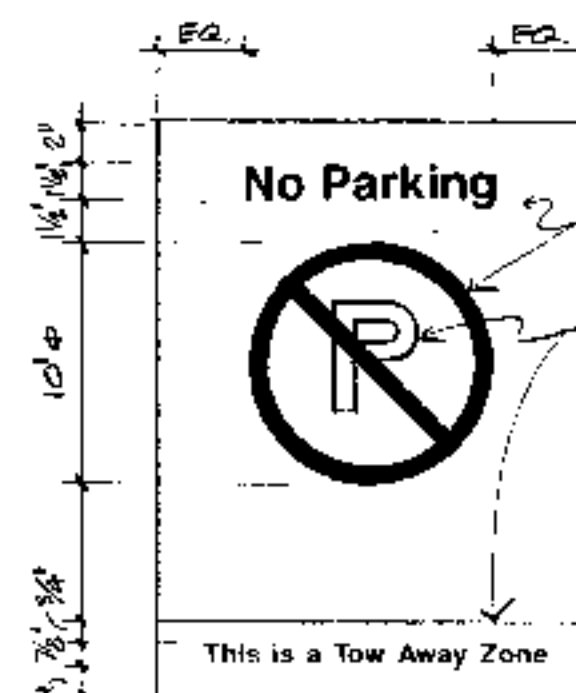
S-2



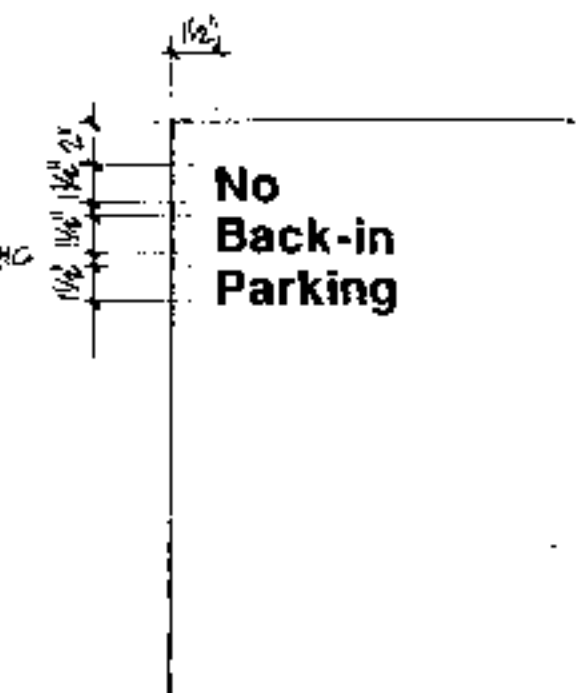
S-3



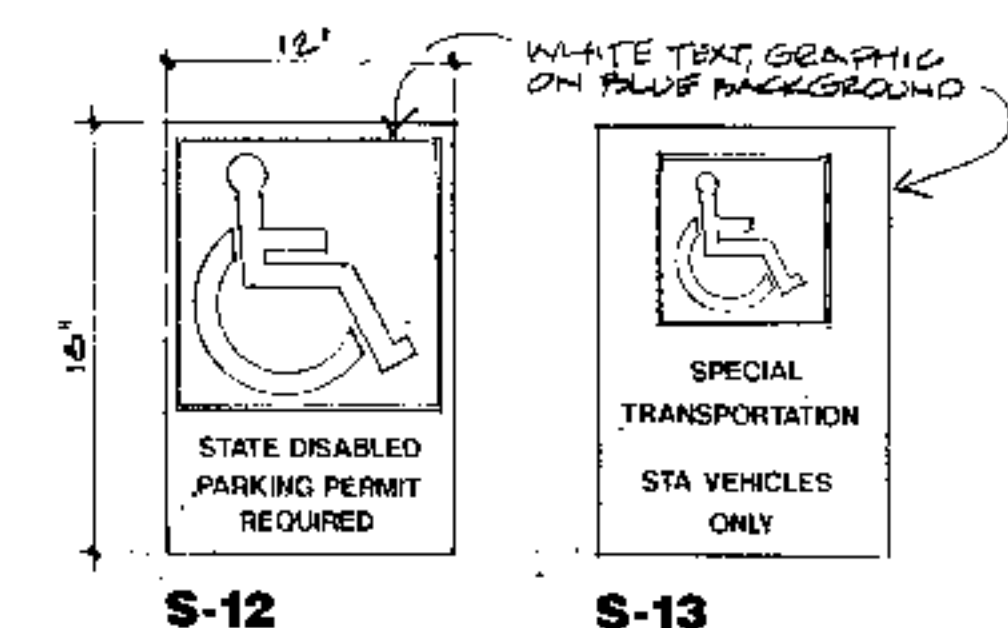
S-4



S-5

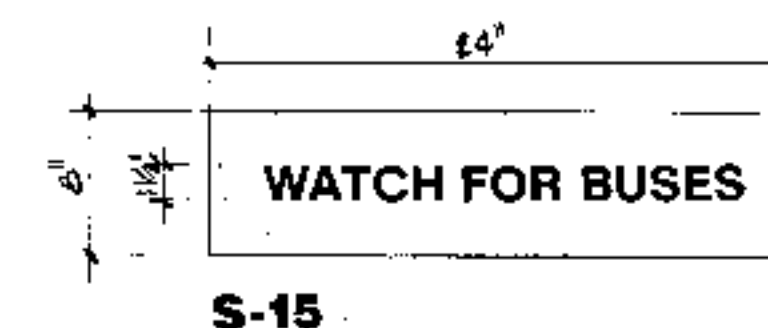


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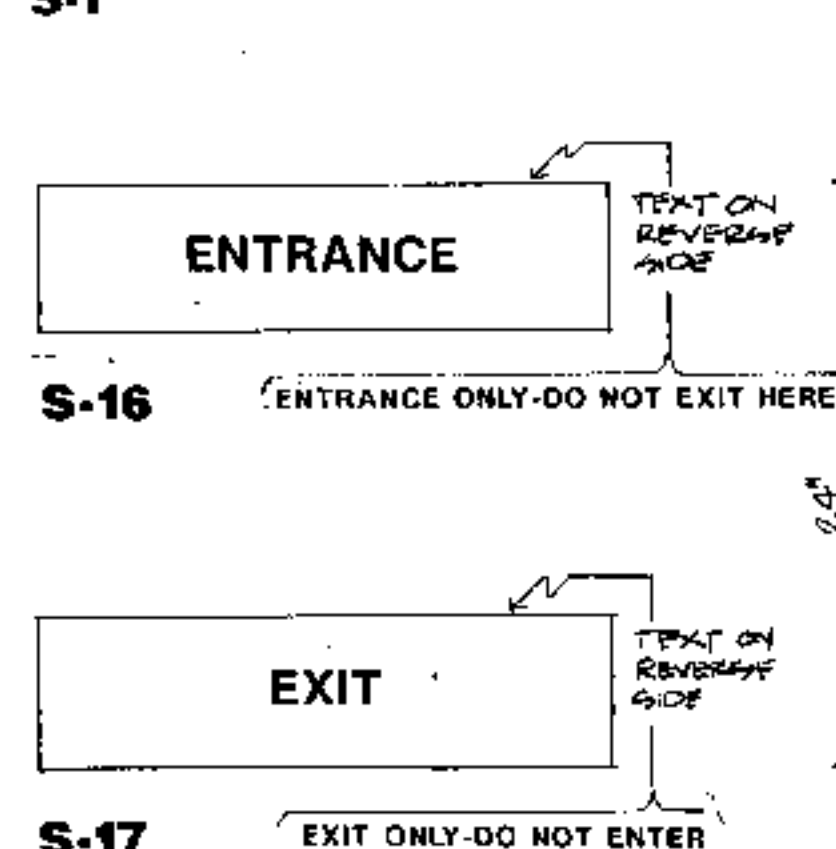


S-12

S-13

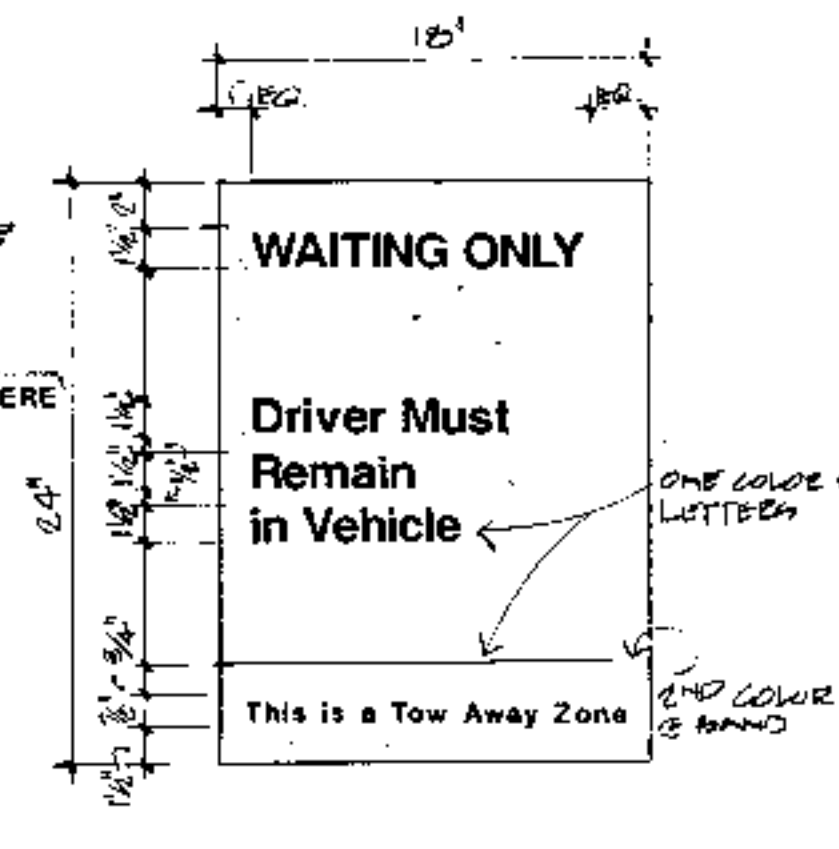


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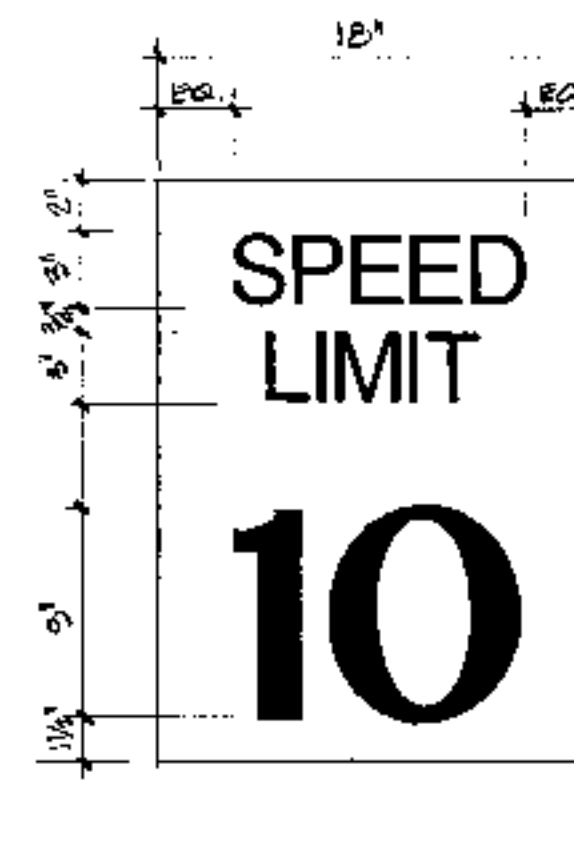


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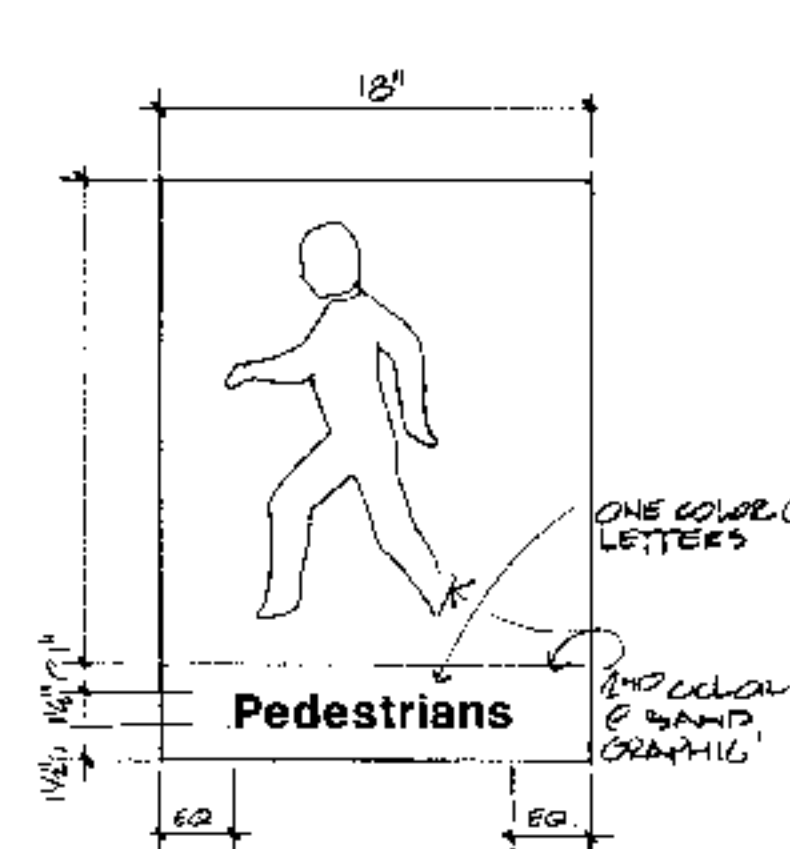
S-17



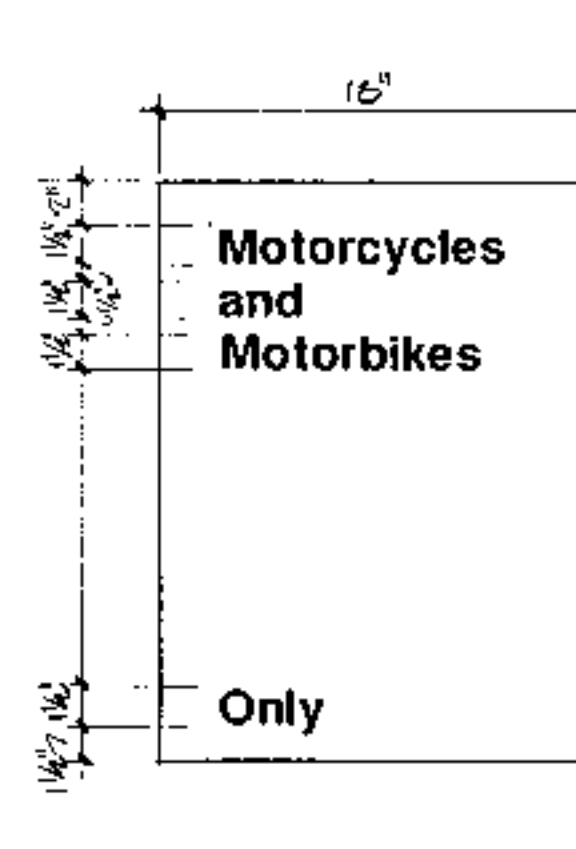
S-7



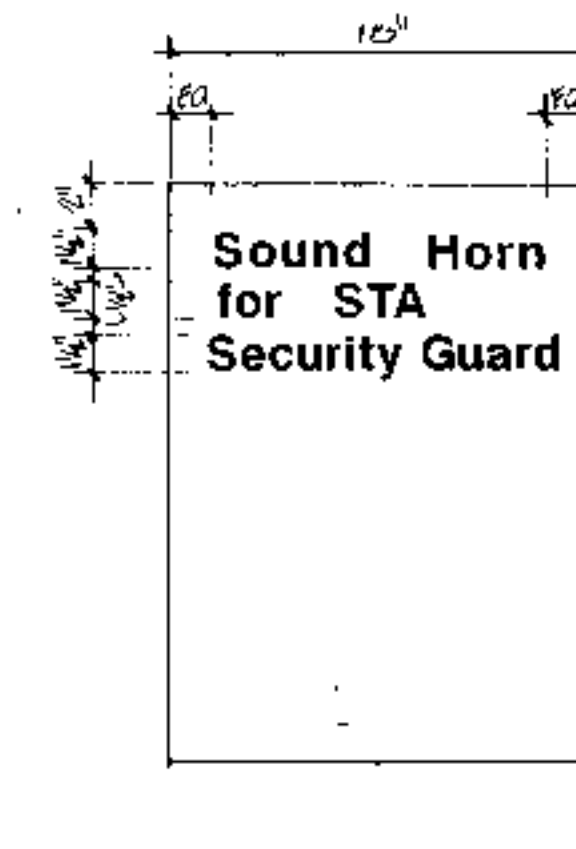
S-8



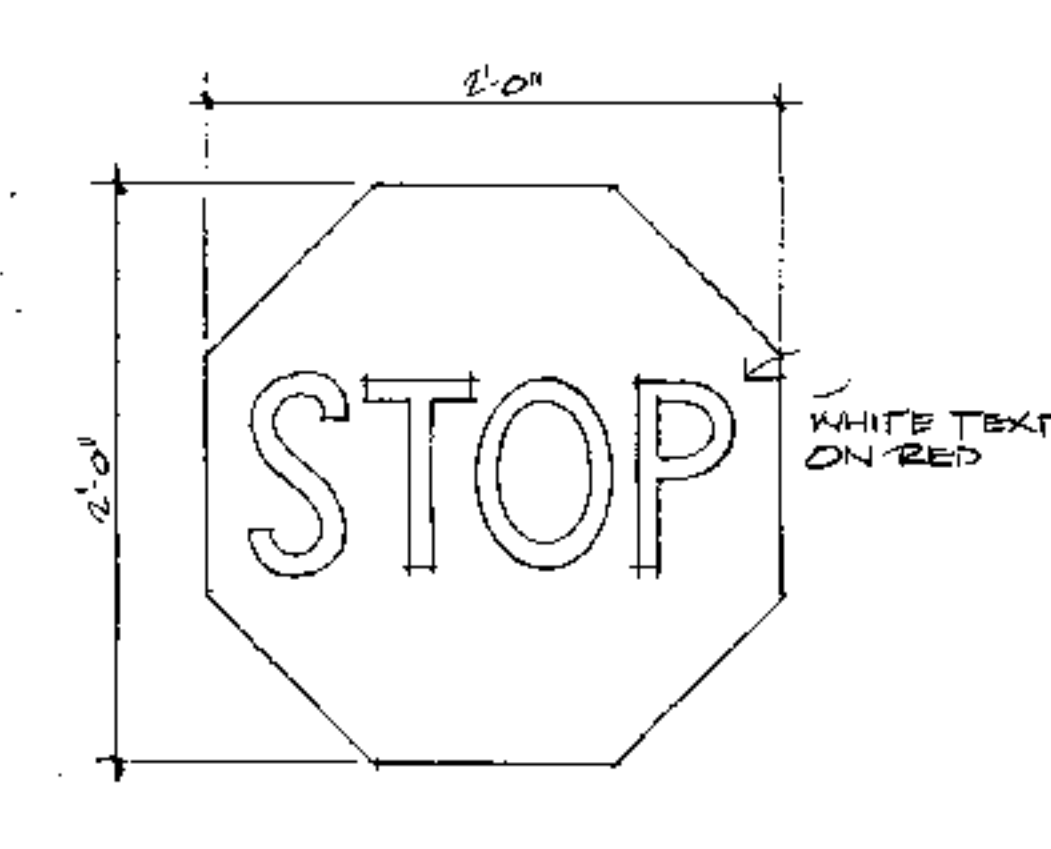
S-9



S-10



S-11

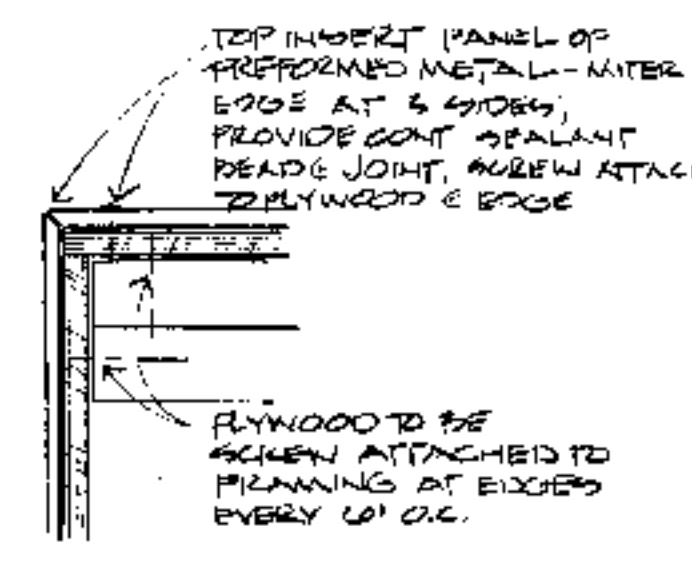
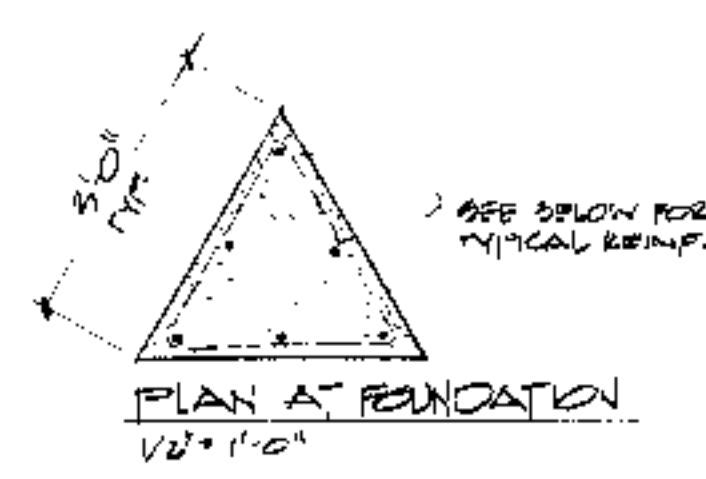
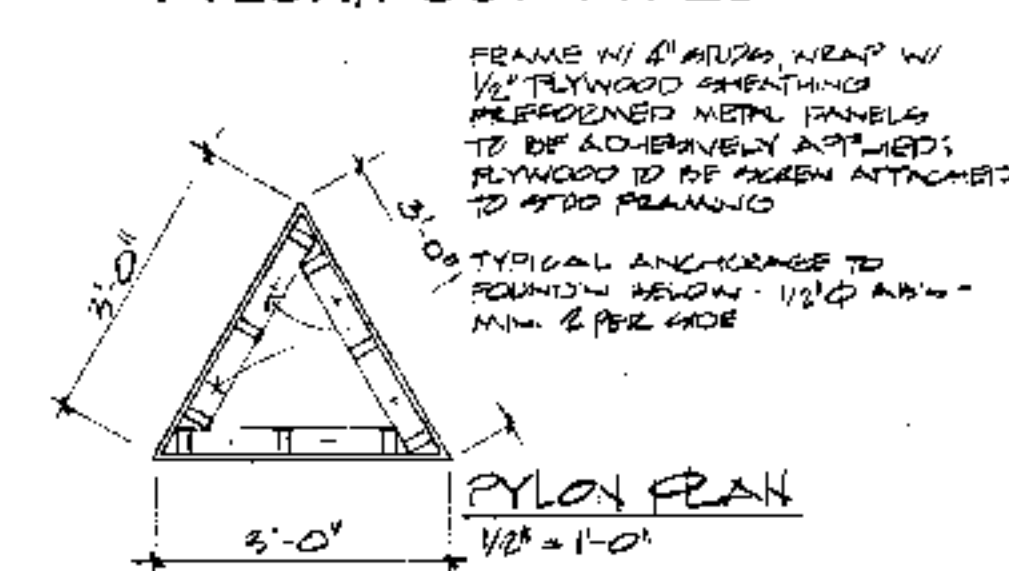


S-14

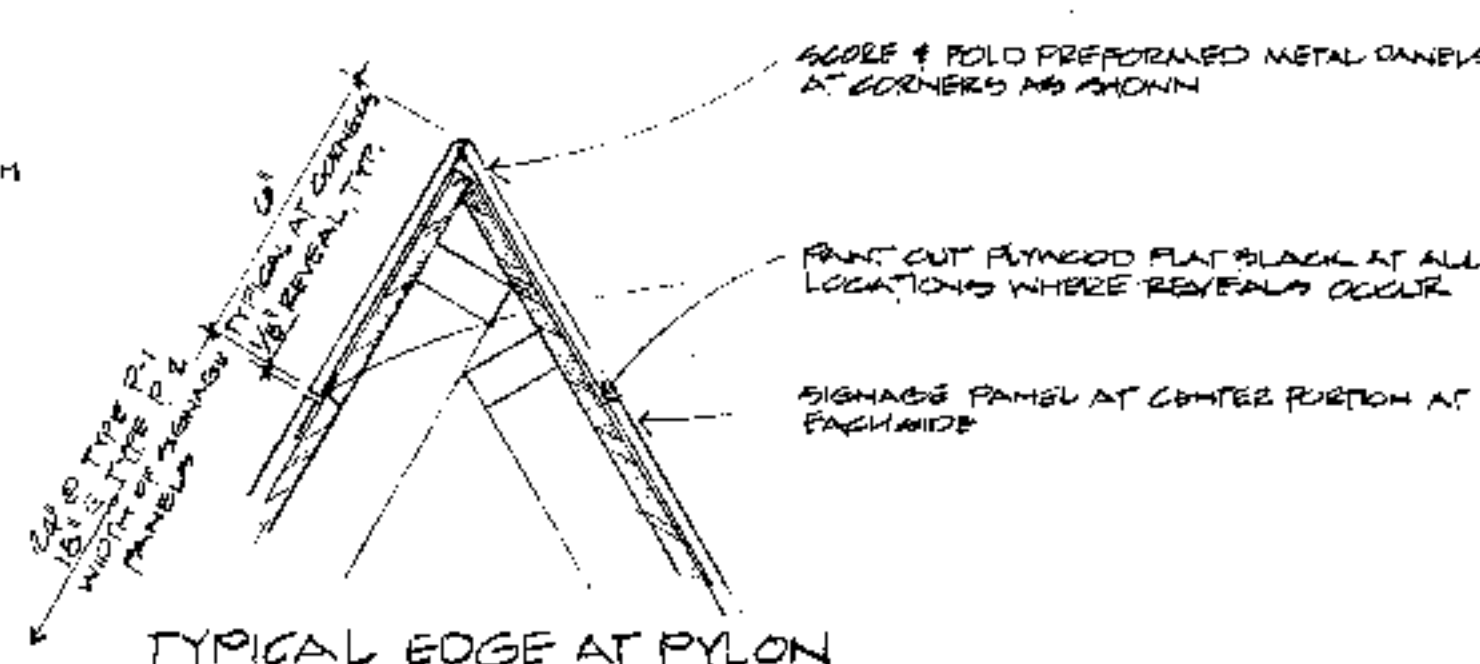
SIGNING TYPICALLY 1" COLOR TEXT UNLESS NOTED OTHERWISE

SIGNAGE TYPES

PYLON/POST TYPES



TOP EDGE AT PYLON

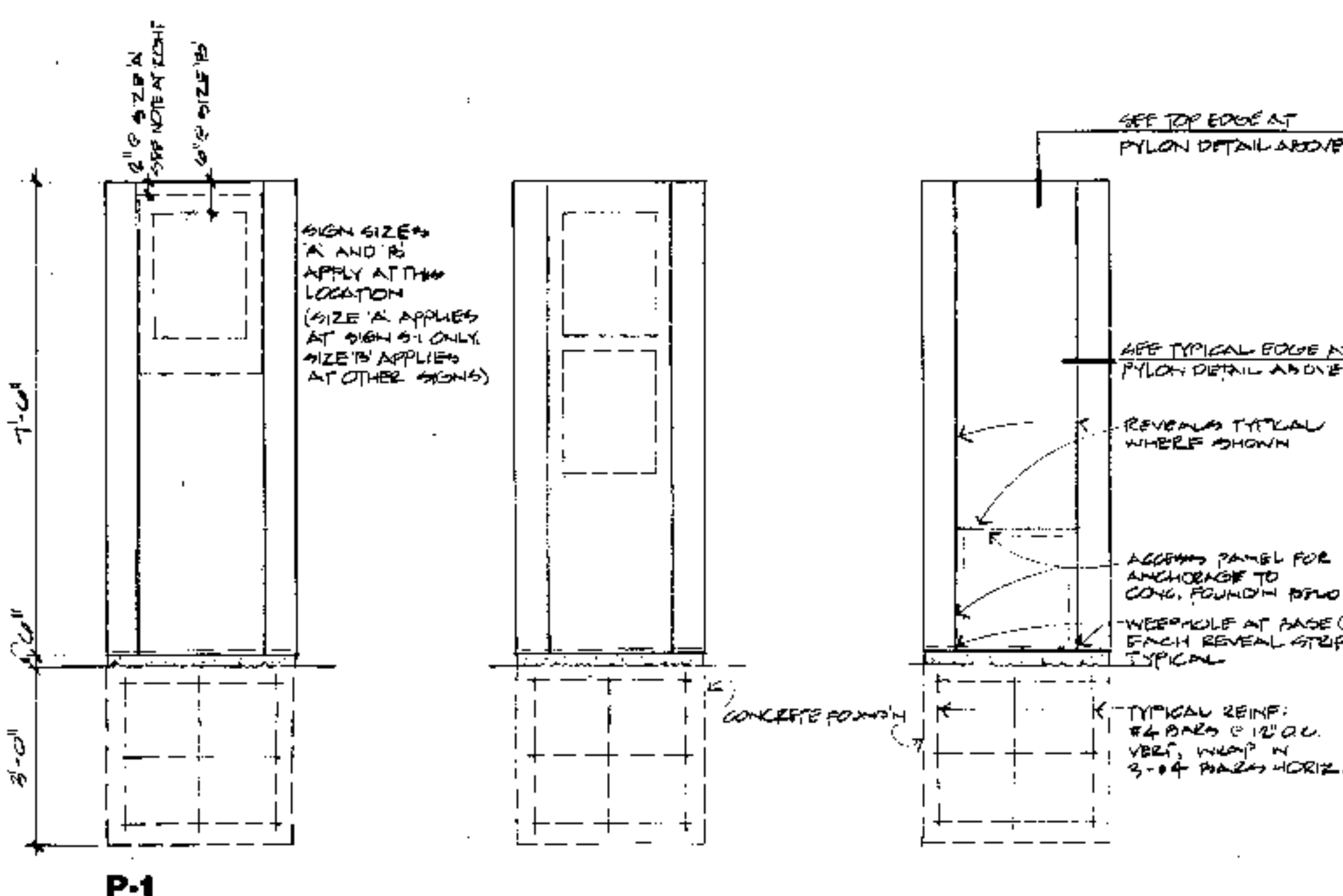


TYPICAL EDGE AT PYLON

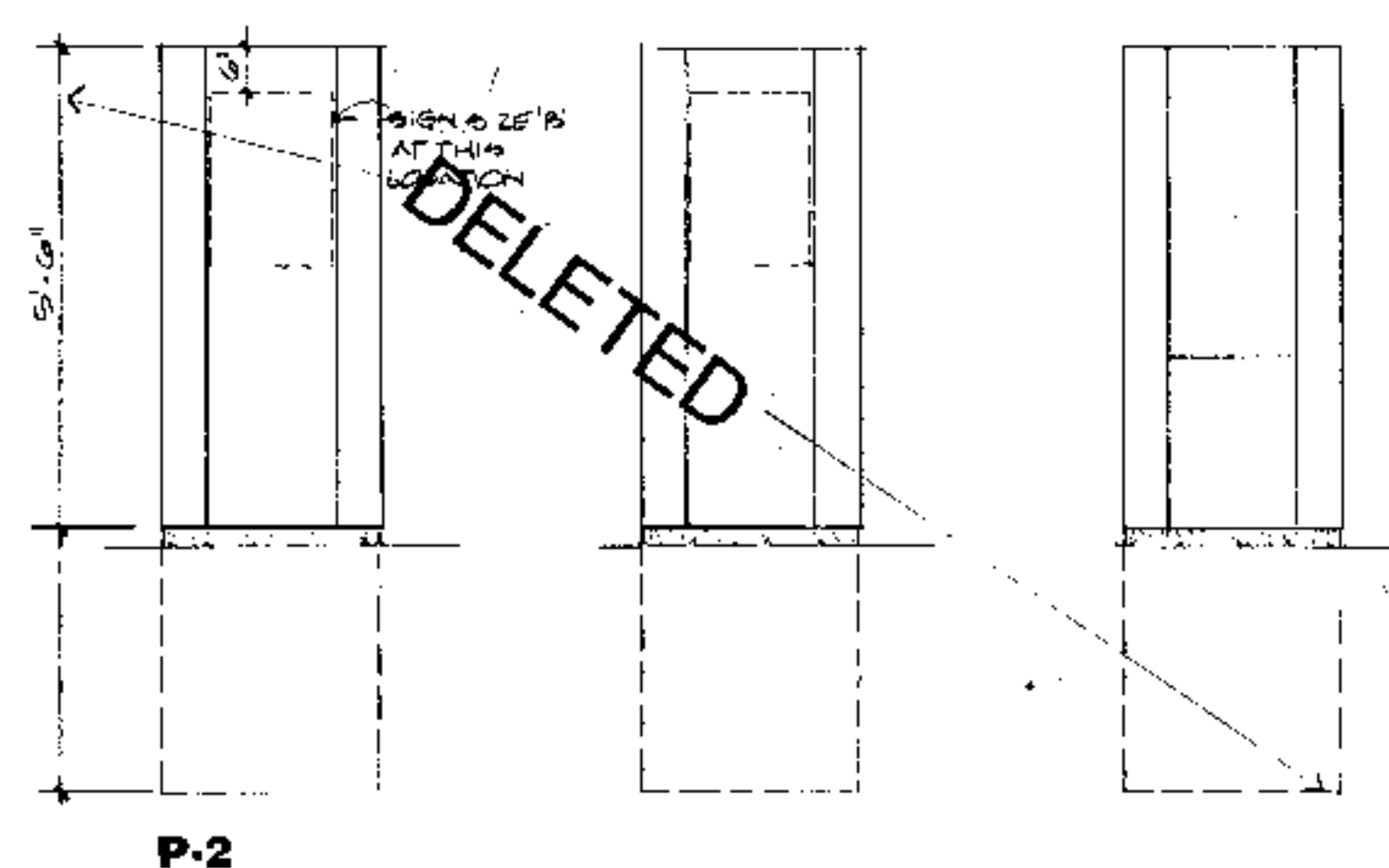
SIGN SIZES

- SIZE A: 24" WIDE x 33" HIGH - APPLIES TO SIGN TYPE S-1 ONLY
- SIZE B: 18" WIDE x 24" HIGH - APPLIES TO S-2, S-3, S-4, S-5, S-6, S-7, S-8, S-9, S-10, S-11
- SIZE C: 12" WIDE x 18" HIGH - APPLIES TO HANDICAPPED SIGNS S-12 & S-13
- SIZE D: 2'-0" x 2'-0" OCTAGONAL STOP SIGN
- SIZE E: 24" WIDE x 8" HIGH - APPLIES TO SIGN TYPE S-15 ONLY

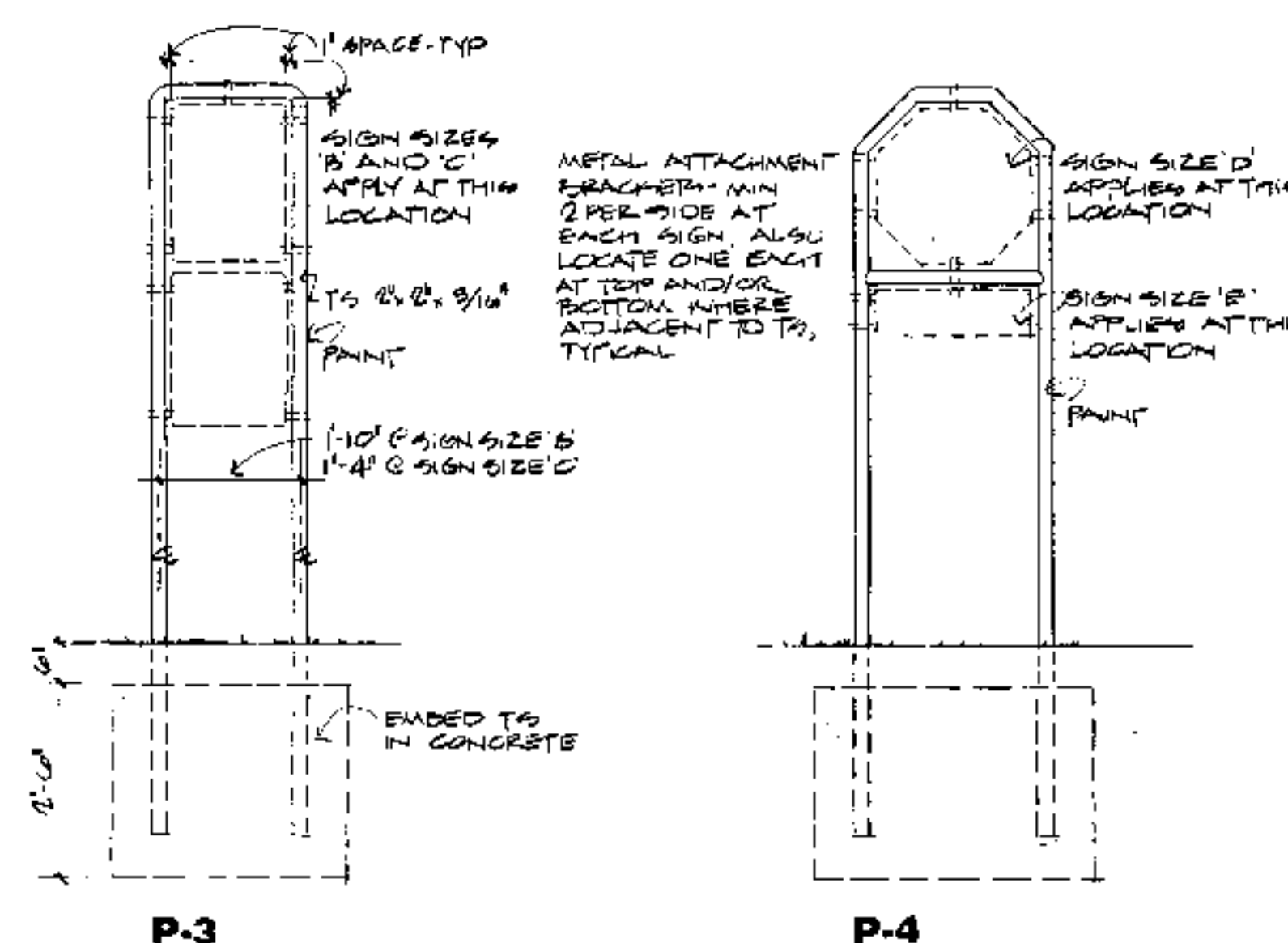
NOTE: AT PYLONS, SIGNAGE TEXT IS TO BE SCREENED DIRECTLY TO PREFORMED METAL PANELS OF WHICH PYLON IS CONSTRUCTED - SIZES SHOWN ARE FOR ESTABLISHING LIMITS OF AREA TO BE SCREENED



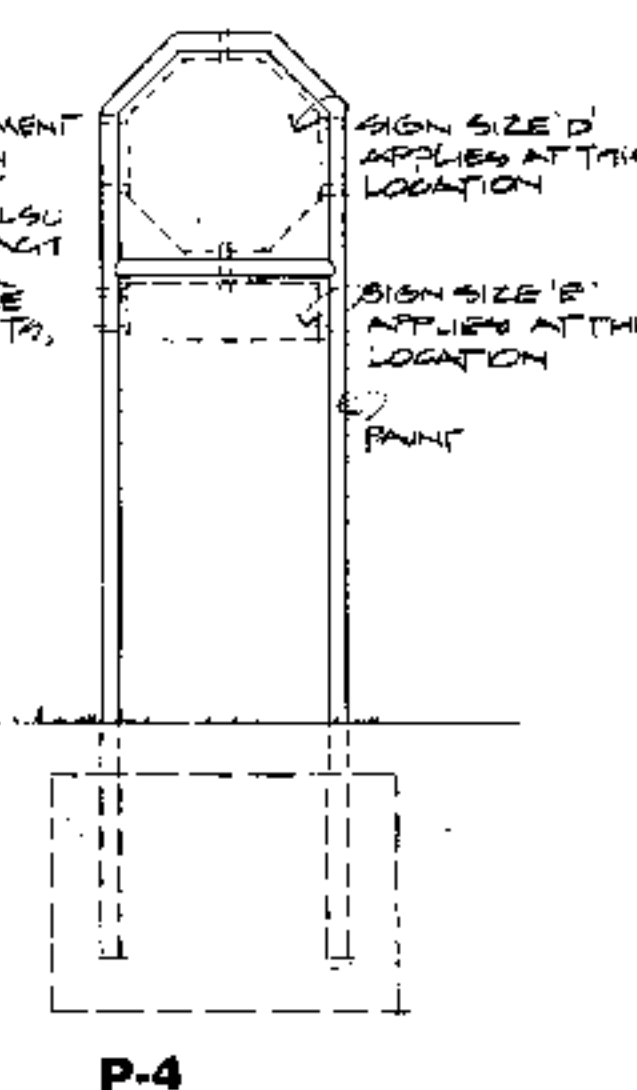
P-1



P-2

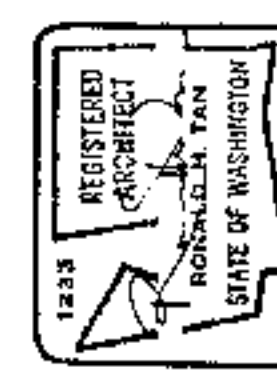


P-3



P-4

SIGNAGE TYPES, PYLONS



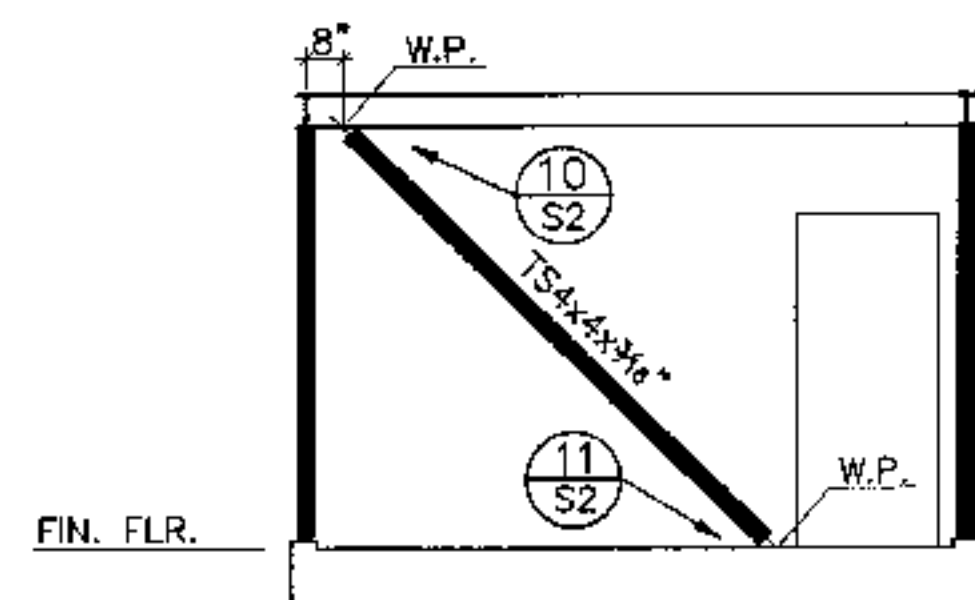
TAN BOYLE HEYAMOTO ARCHITECTS IN ASSOCIATION WITH KIRKWOOD ARCHITECTS AND ASSOCIATES
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SPokane, Washington 99204
(509) 838-7474

SPokane Transit Authority
Valley Transit Center
FORTH AVENUE & UNIVERSITY ROAD
SPokane, Washington

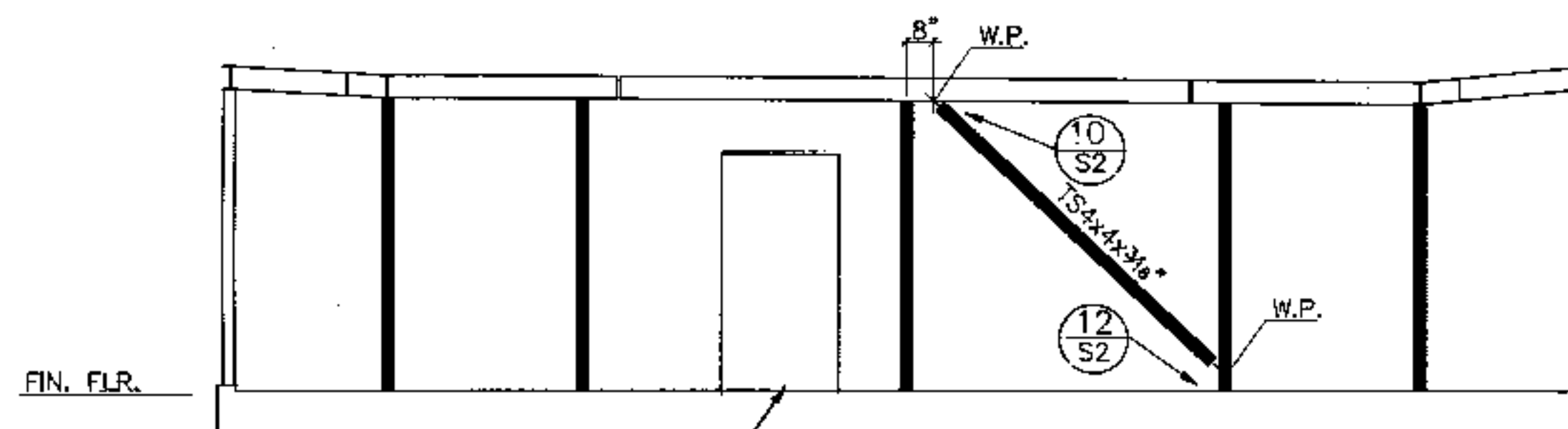


PROJECT NO. 8703
DRAWN: GG
CHECKED: MRB
DATE: 9/16/88

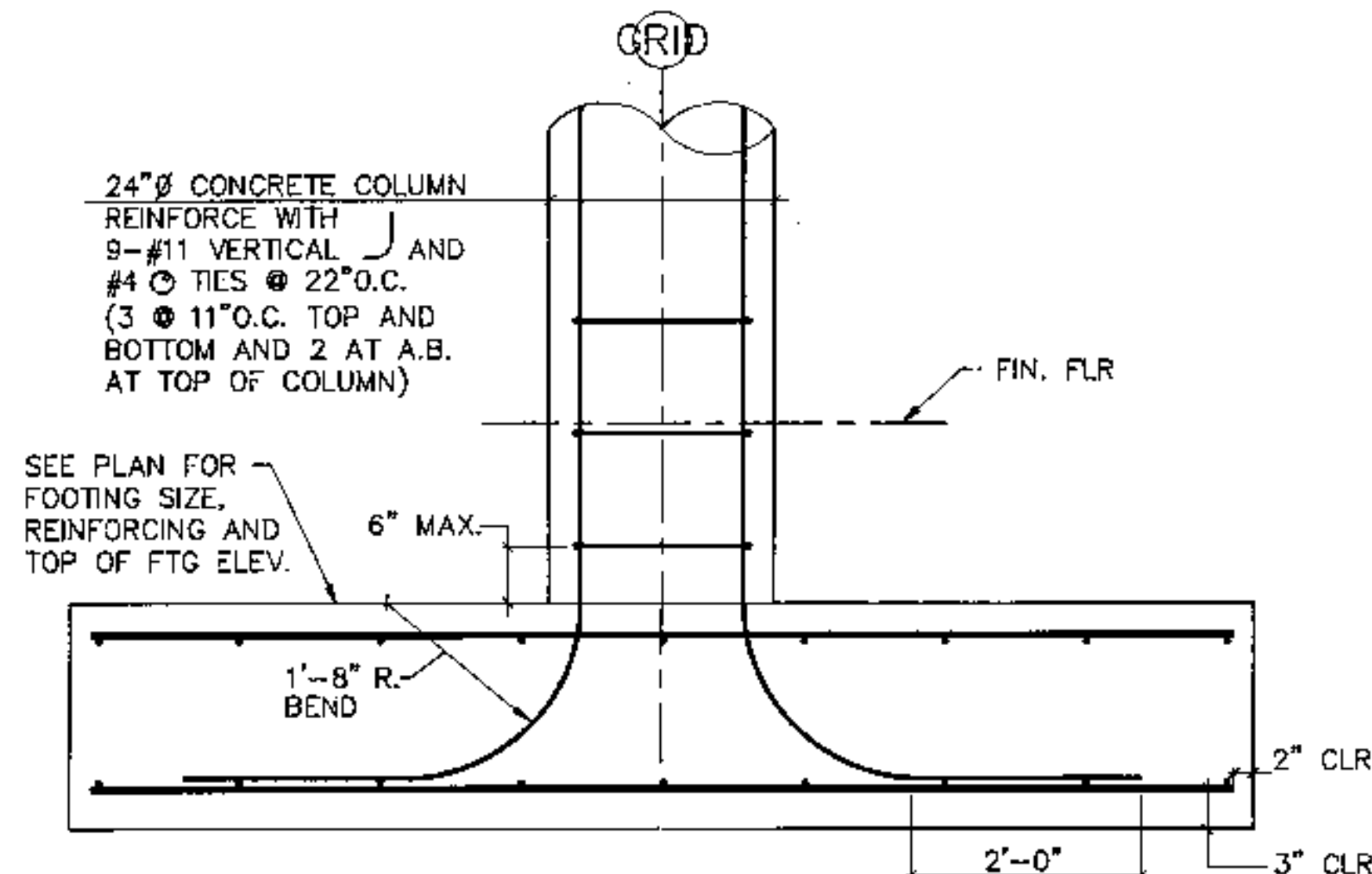
A-18



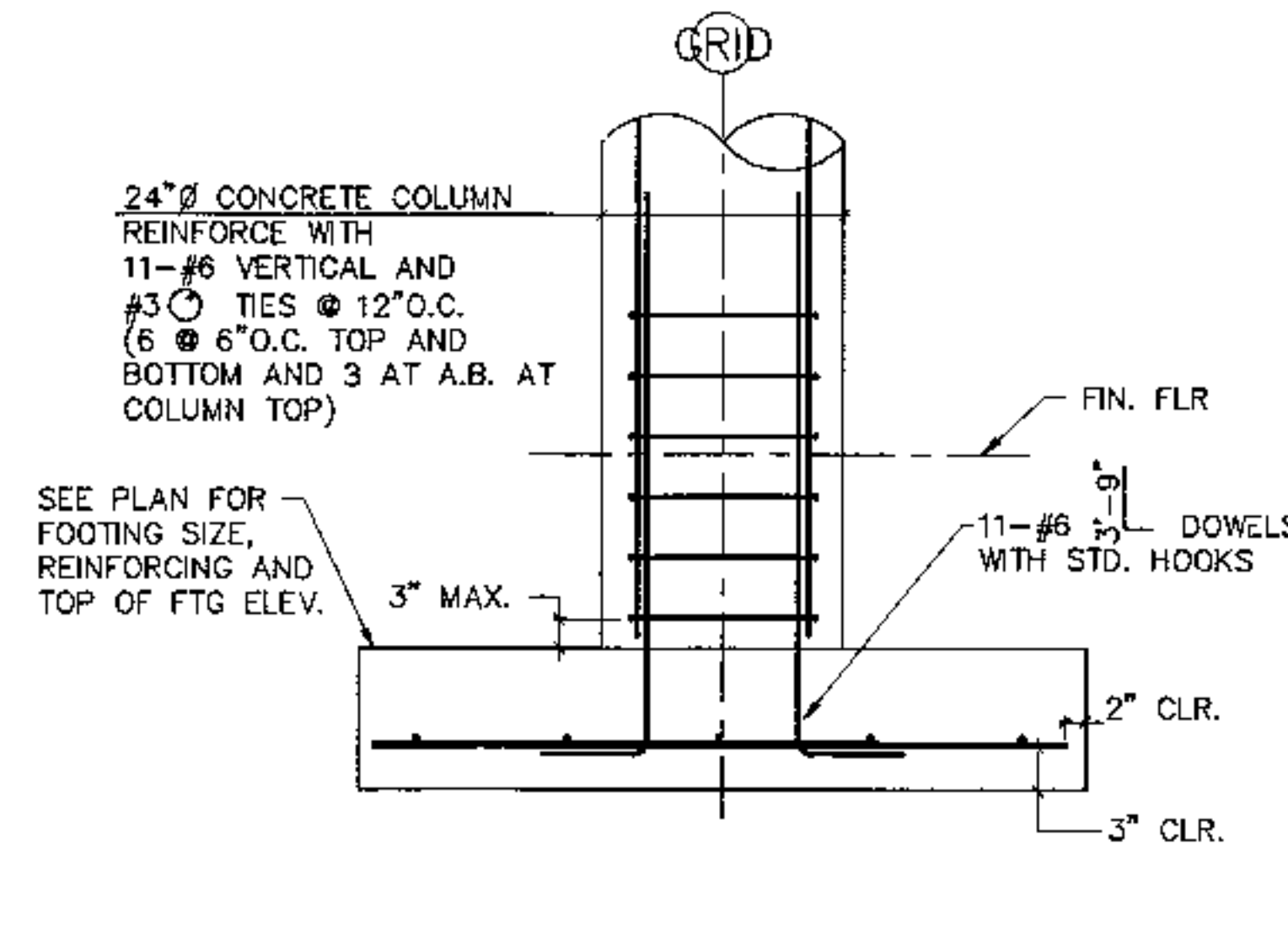
A TYP. INTERIOR BRACE ELEVATION
1/4" = 1'-0"



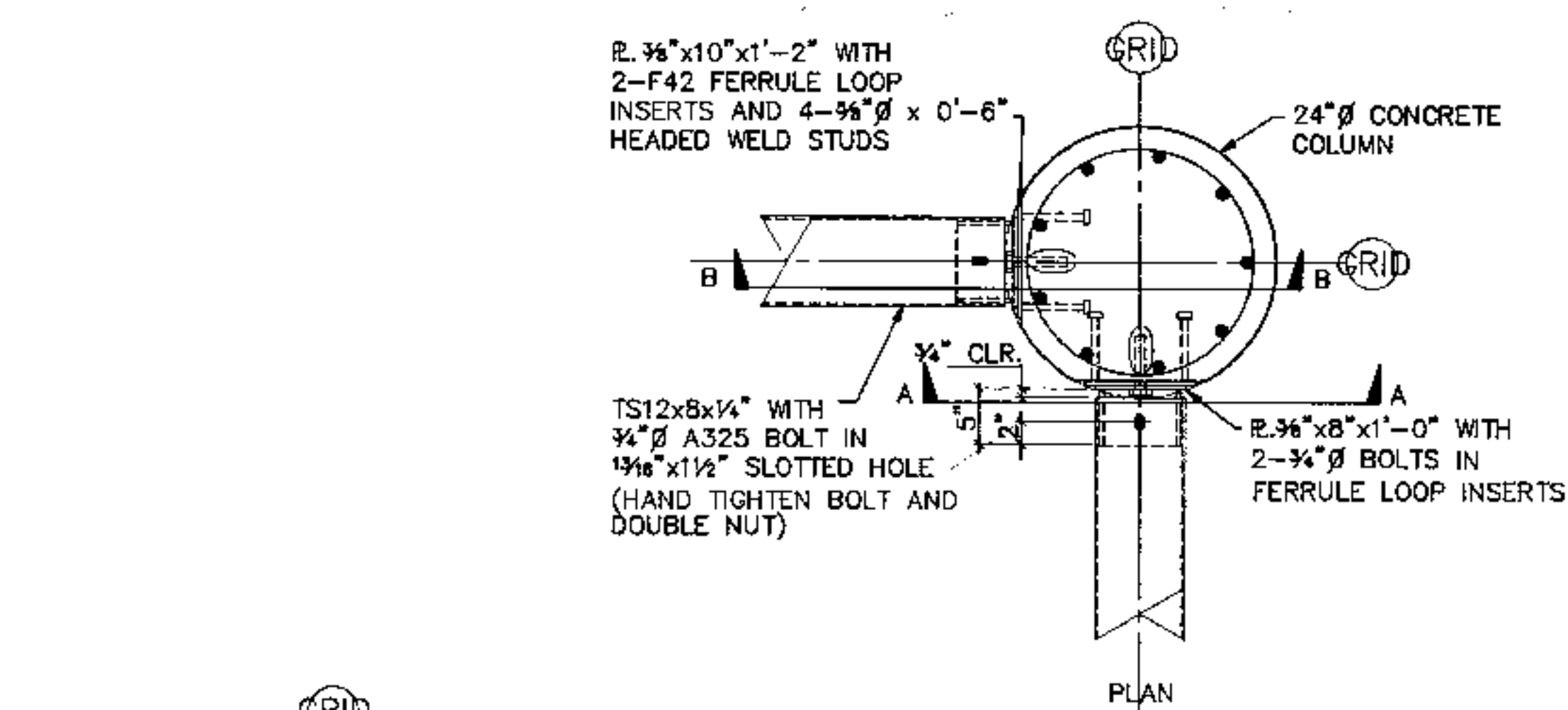
B TYP. EXTERIOR BRACE ELEVATION
1/4" = 1'-0"



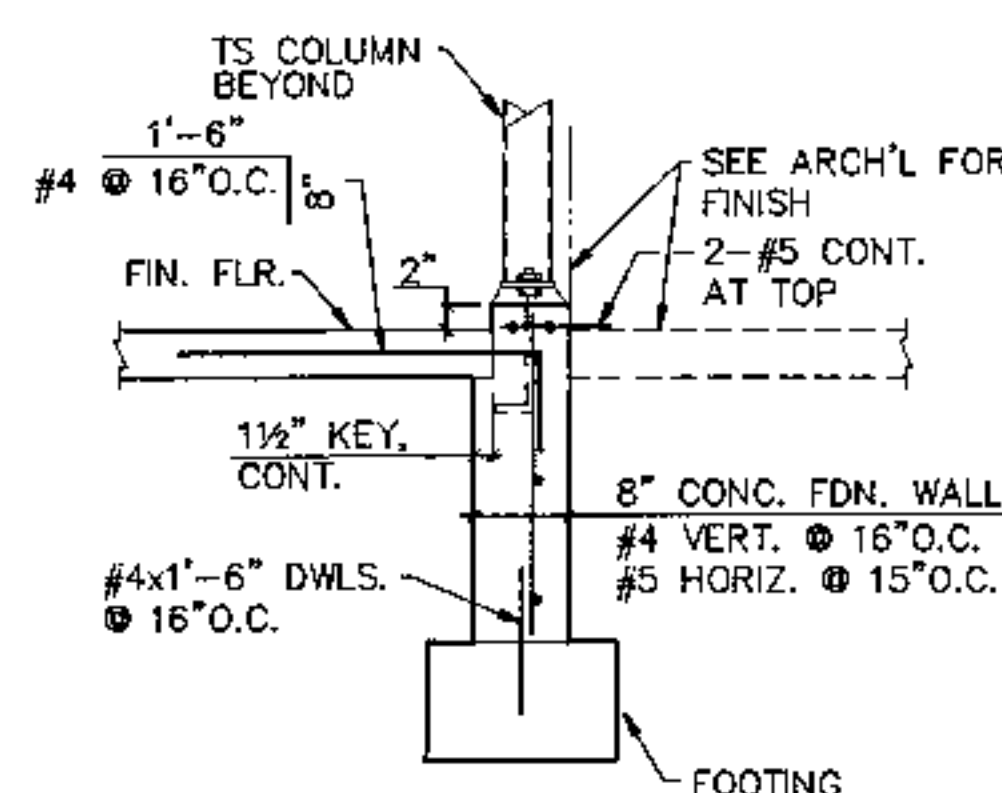
1 COLUMN DETAIL AT FOUNDATION
3/4" = 1'-0"



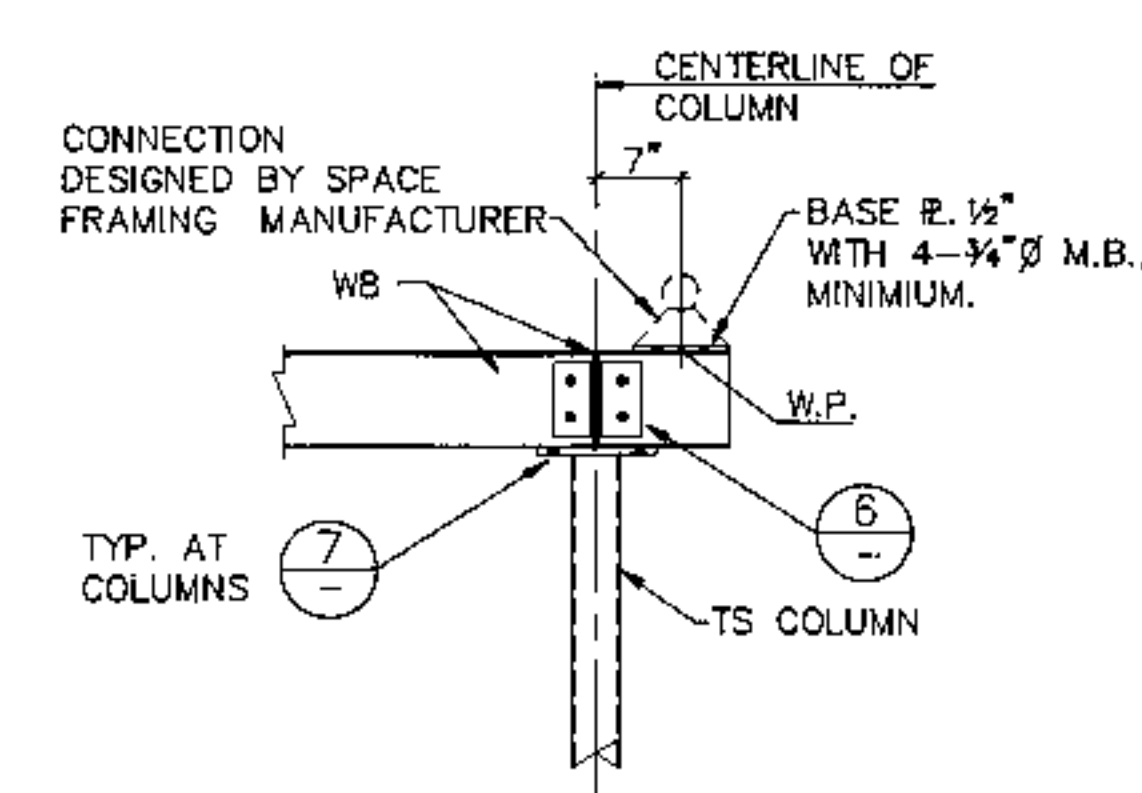
2 COLUMN DETAIL AT FOUNDATION
3/4" = 1'-0"



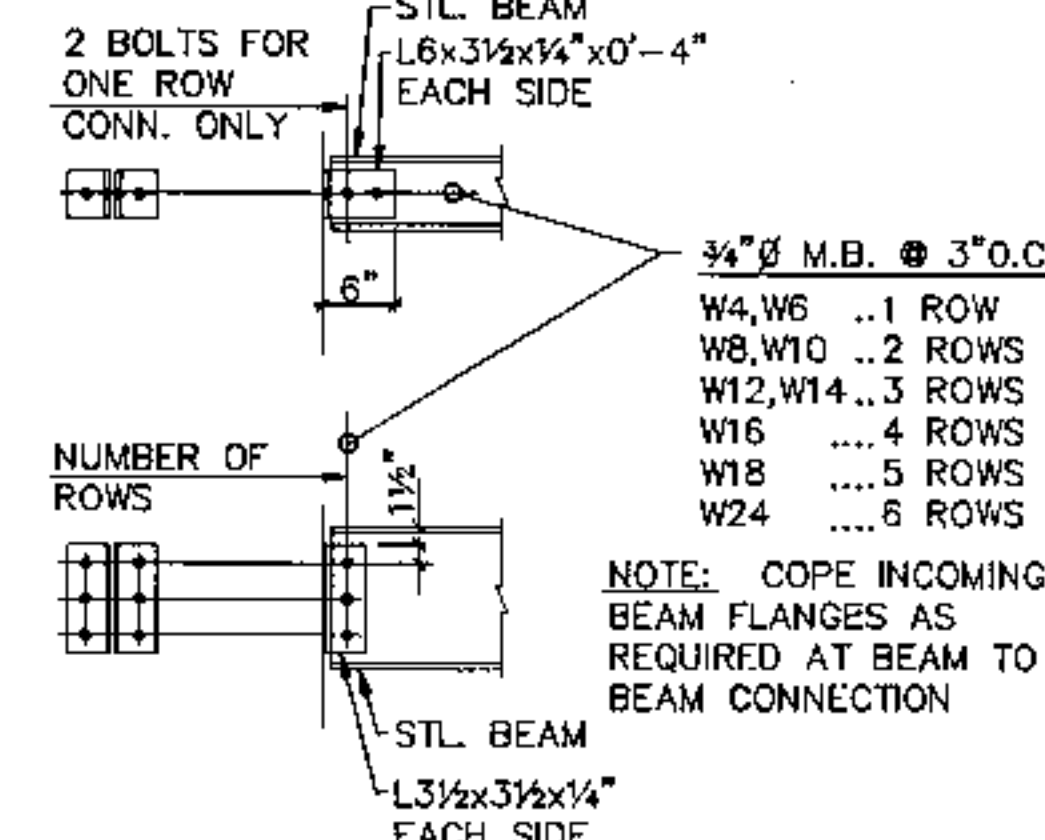
3 COLUMN DETAIL AT FOUNDATION
1" = 1'-0"



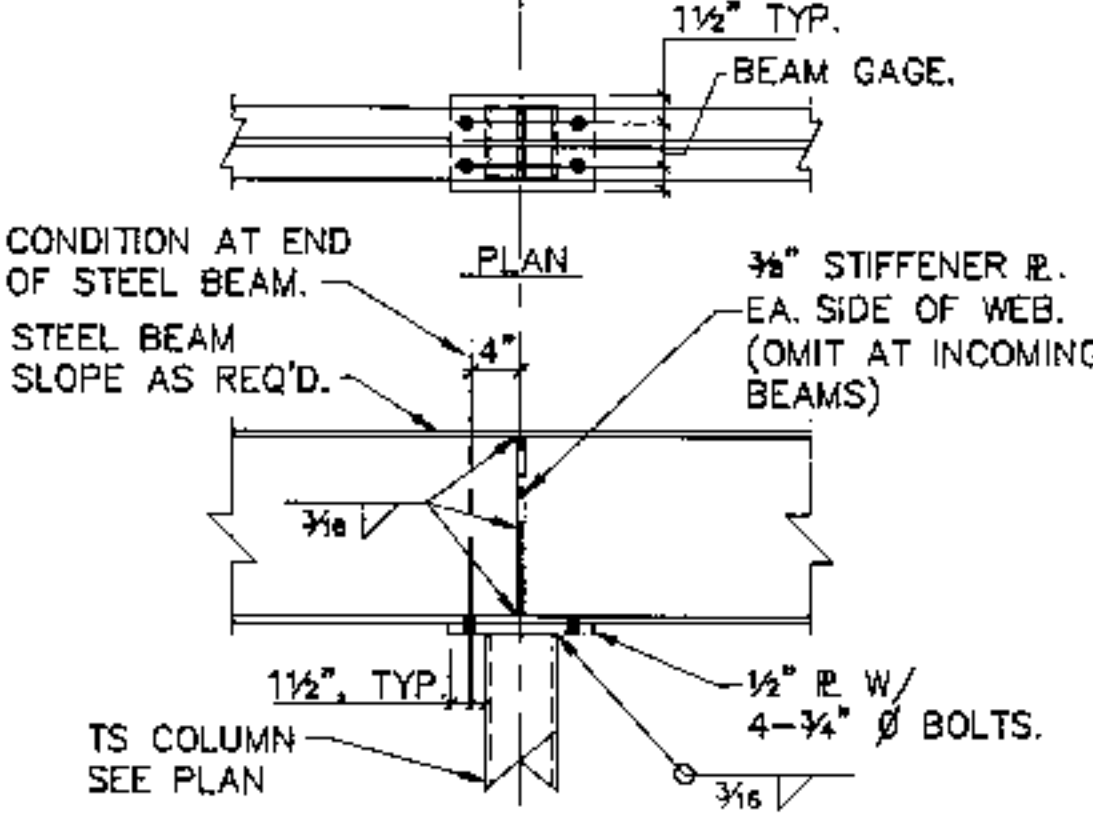
4 TYP. FDN. WALL SECTION
3/4" = 1'-0"



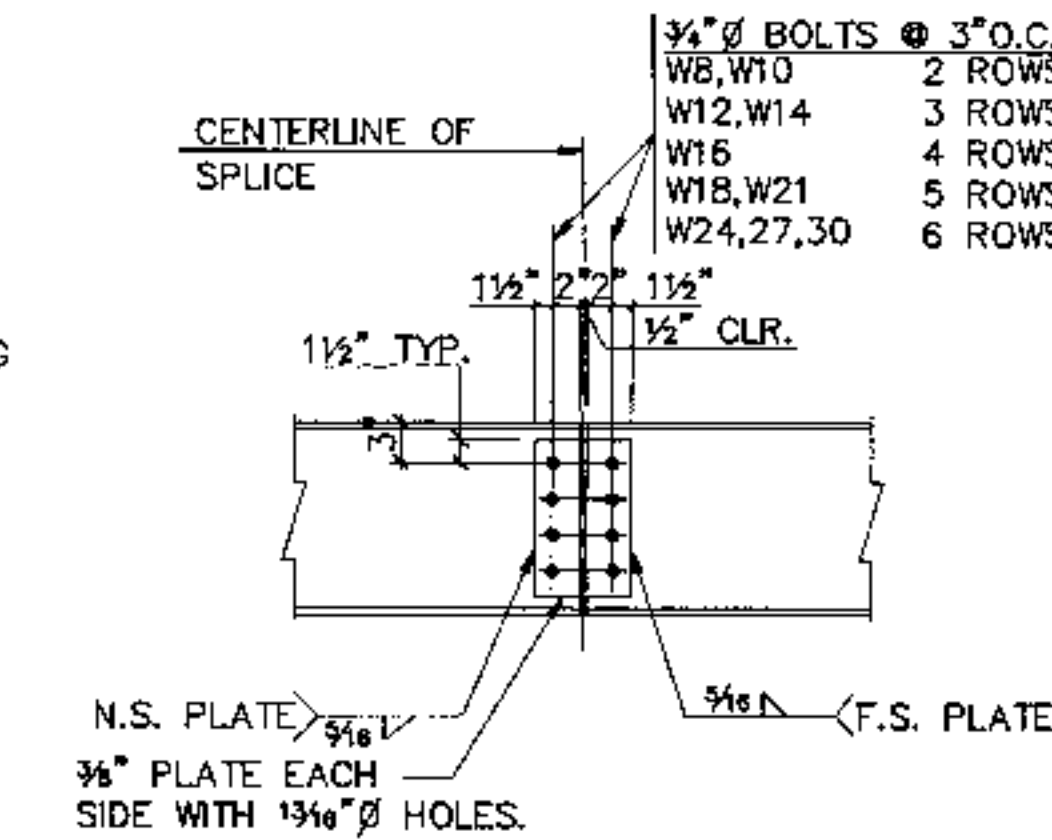
5 TYP. FRAMED BEAM CONNECTION
3/4" = 1'-0"



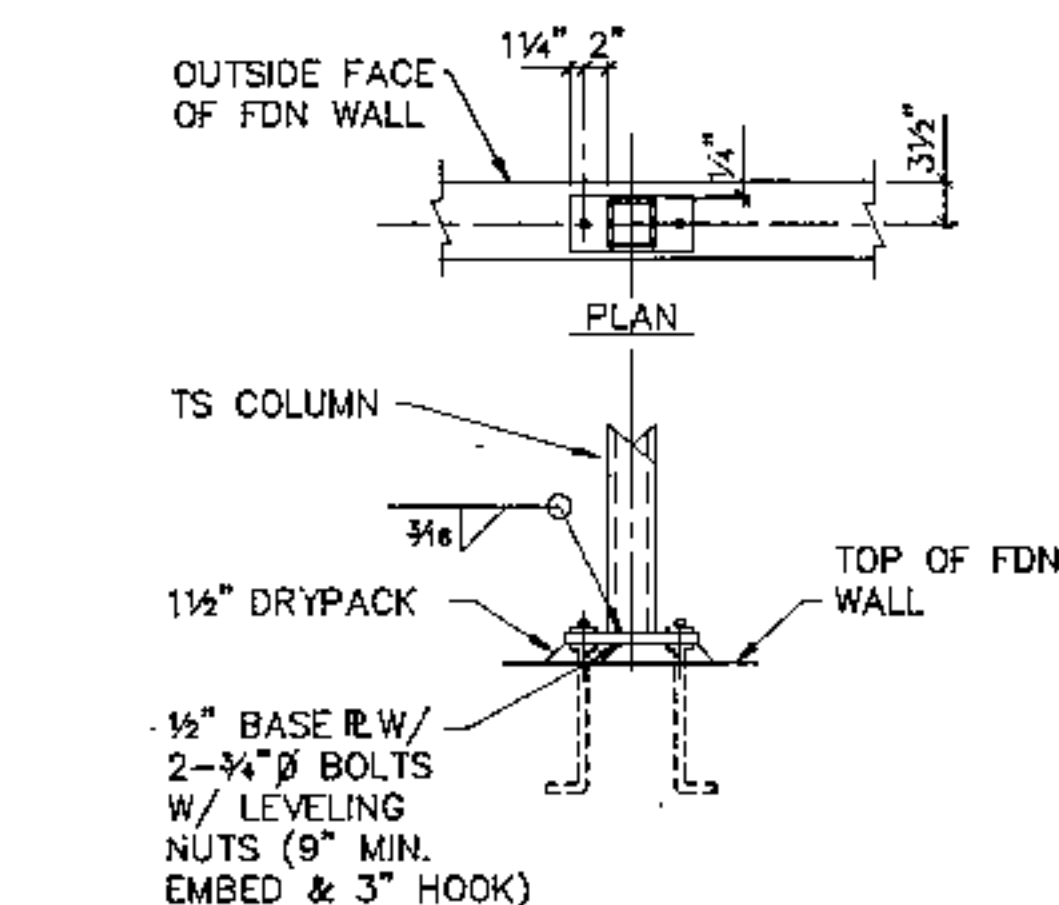
6 TYP. FRAMED BEAM CONNECTION
3/4" = 1'-0"



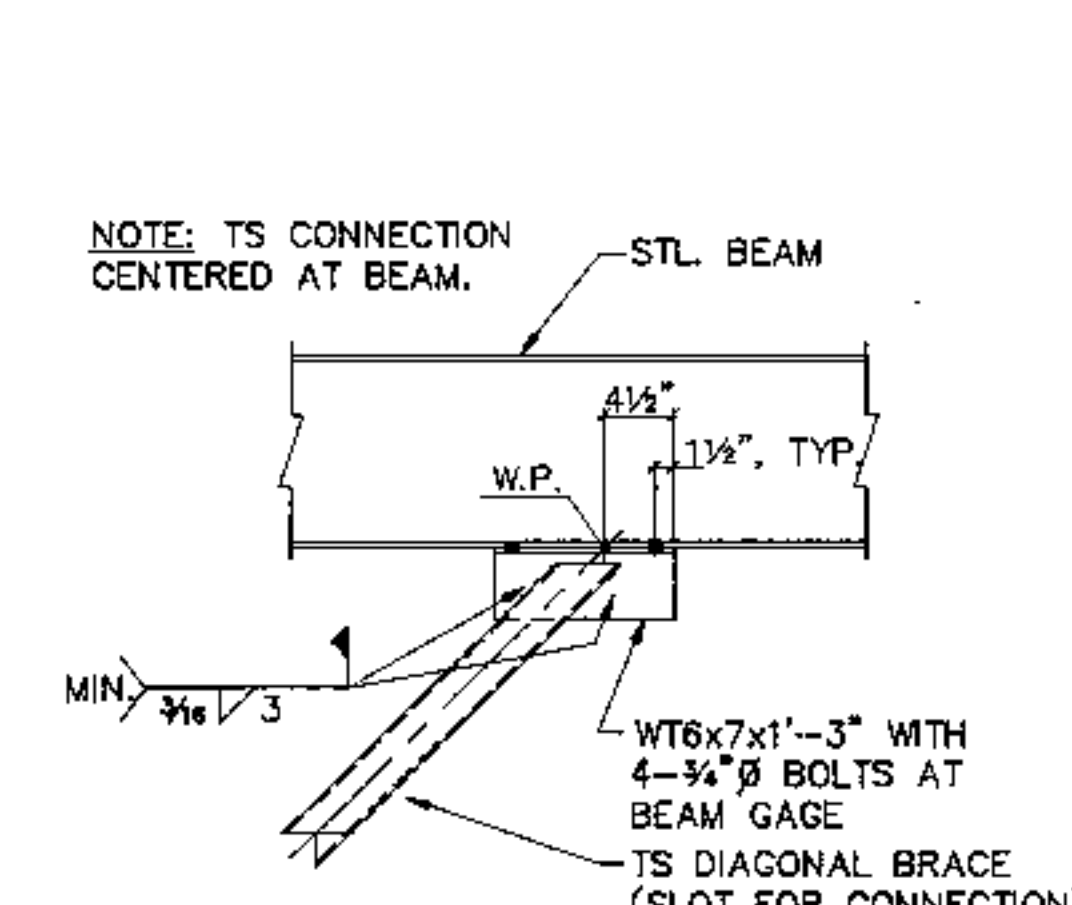
7 TYP. COLUMN CAP PLATE DETAIL
3/4" = 1'-0"



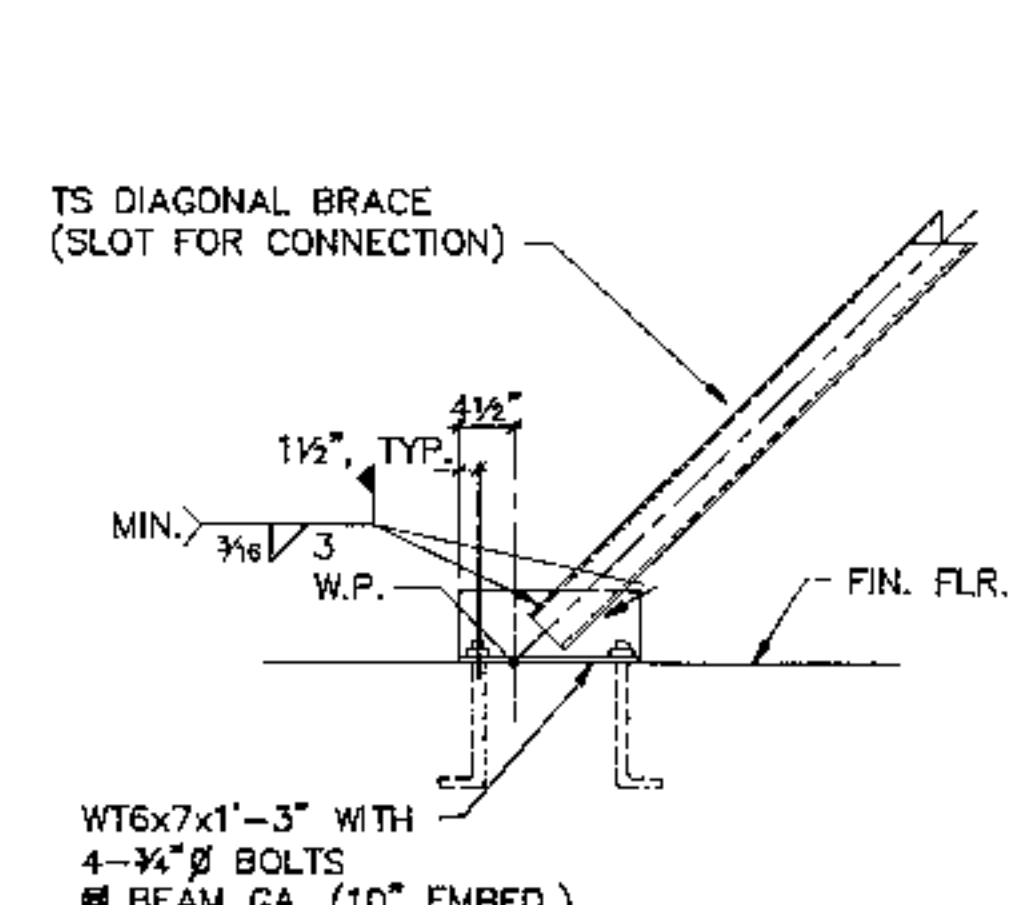
8 TYP. BEAM SPLICE DETAIL
3/4" = 1'-0"



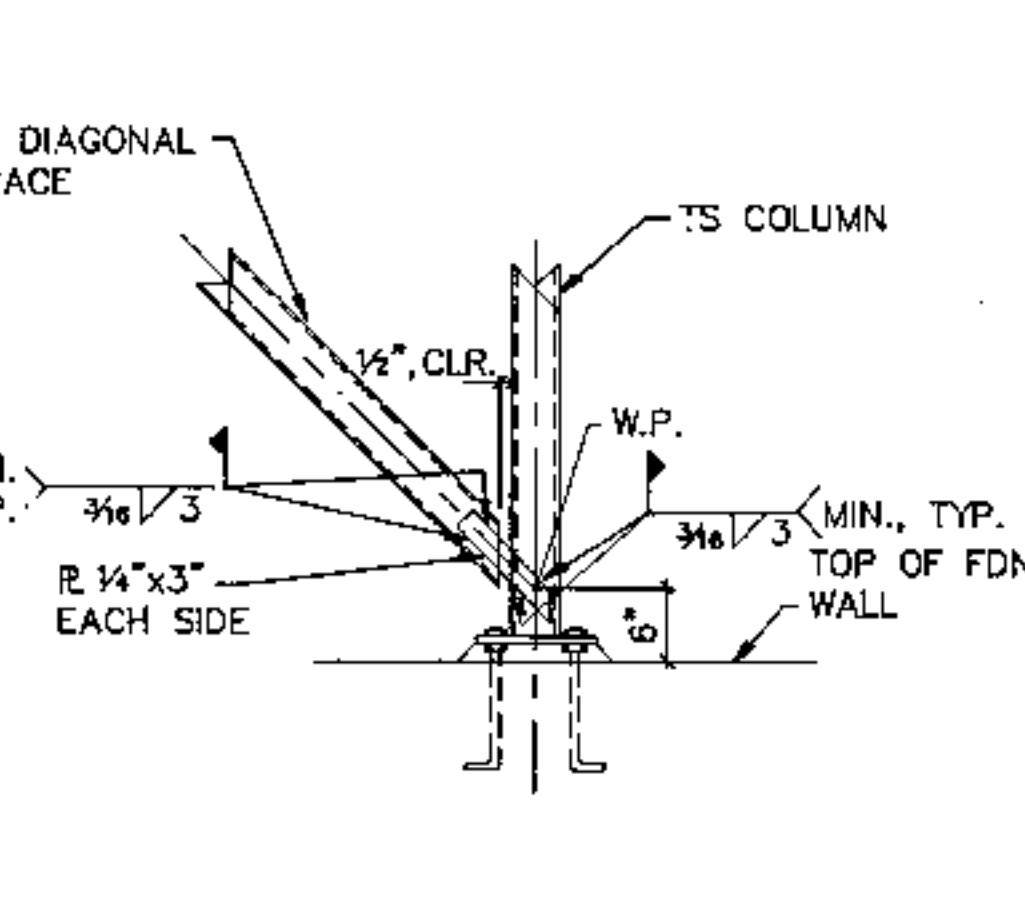
9 TYP. COLUMN BASE PLATE DETAIL AT CONC. WALLS
3/4" = 1'-0"



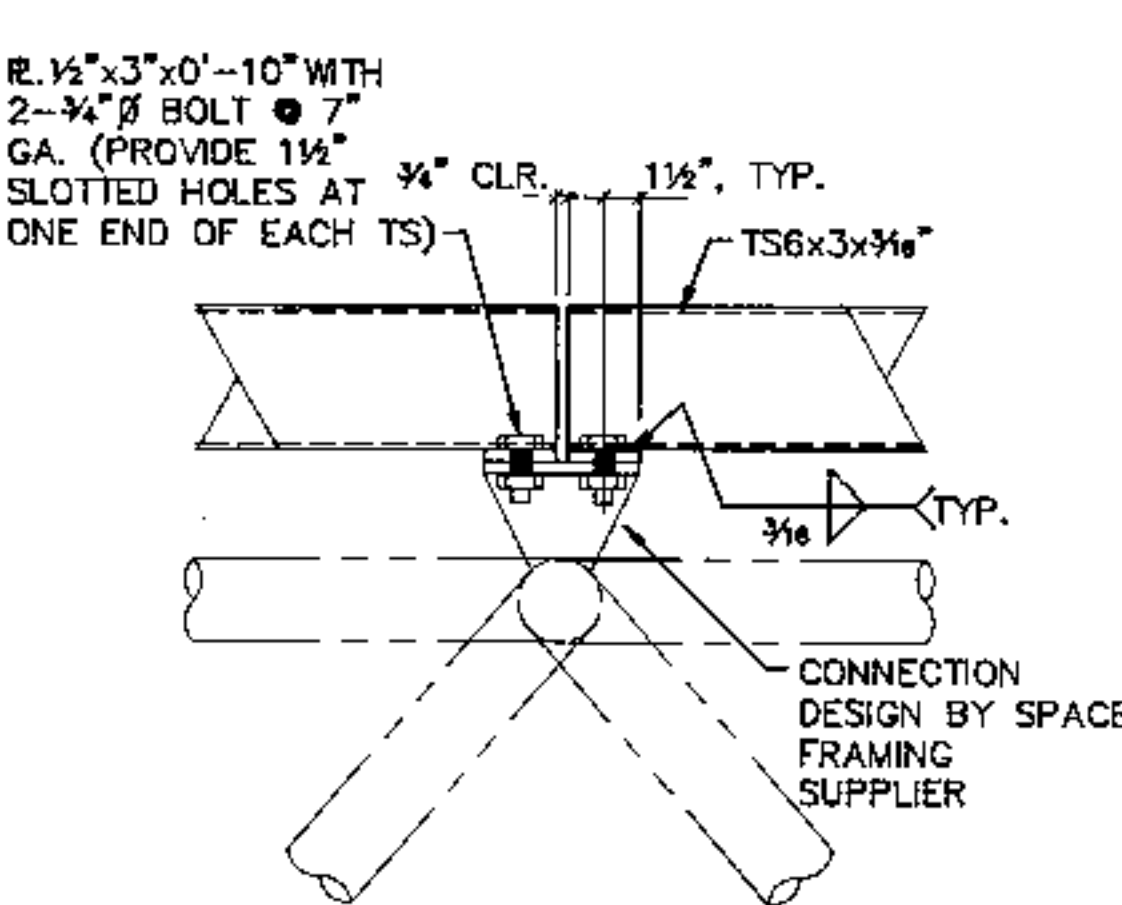
10 TYP. DIAGONAL BRACE CONNECTION DETAIL
3/4" = 1'-0"



11 TYP. DIAGONAL BRACE CONNECTION DETAIL
3/4" = 1'-0"



12 TYP. DIAGONAL BRACE CONNECTION AT COLUMN BASE
3/4" = 1'-0"



13 TYP. DIAGONAL BRACE CONNECTION AT COLUMN BASE
1 1/2" = 1'-0"



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SPOKANE TRANSIT AUTHORITY
VALLEY TRANSIT CENTER
NORTH AVENUE & UNIVERSITY ROAD
SPOKANE, WASHINGTON

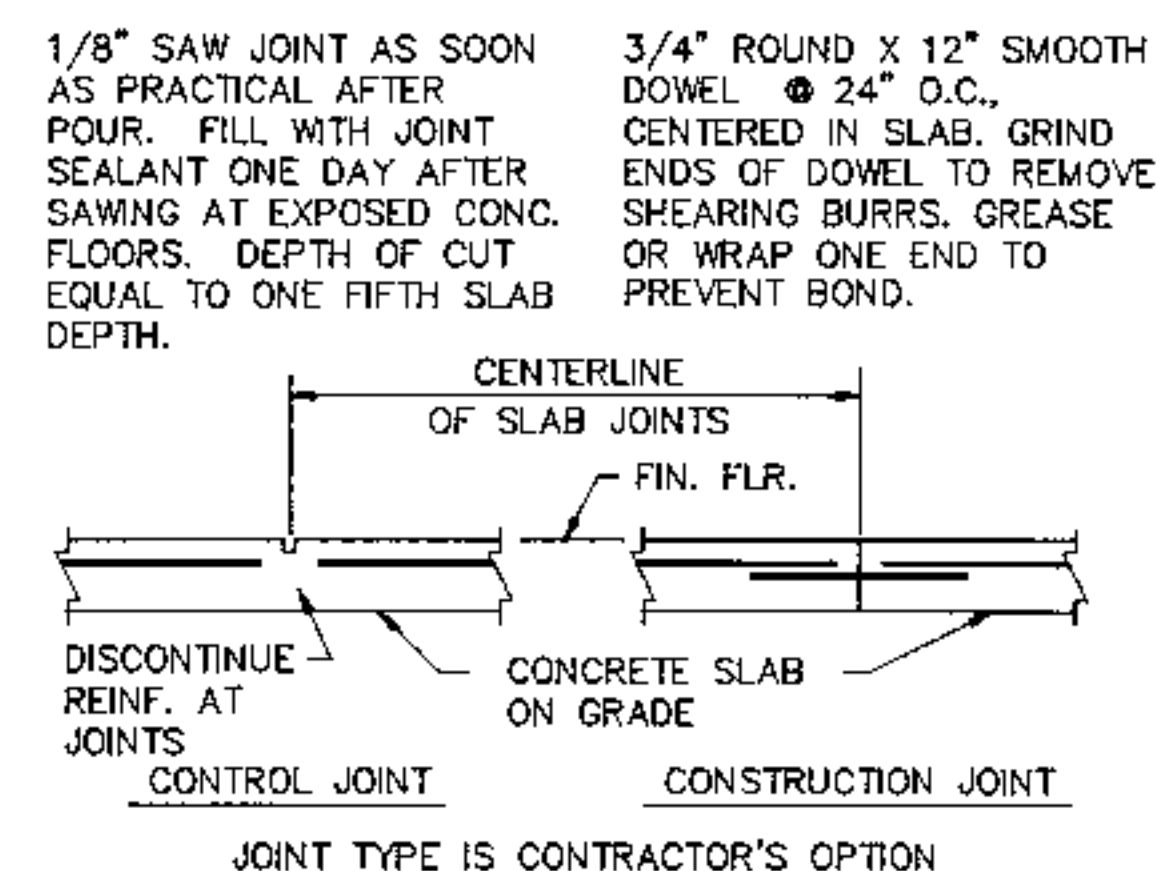


PROJECT NO. 8703
DRAWN LMG
CHECKED LHP/RLA
DATE 6/16/88

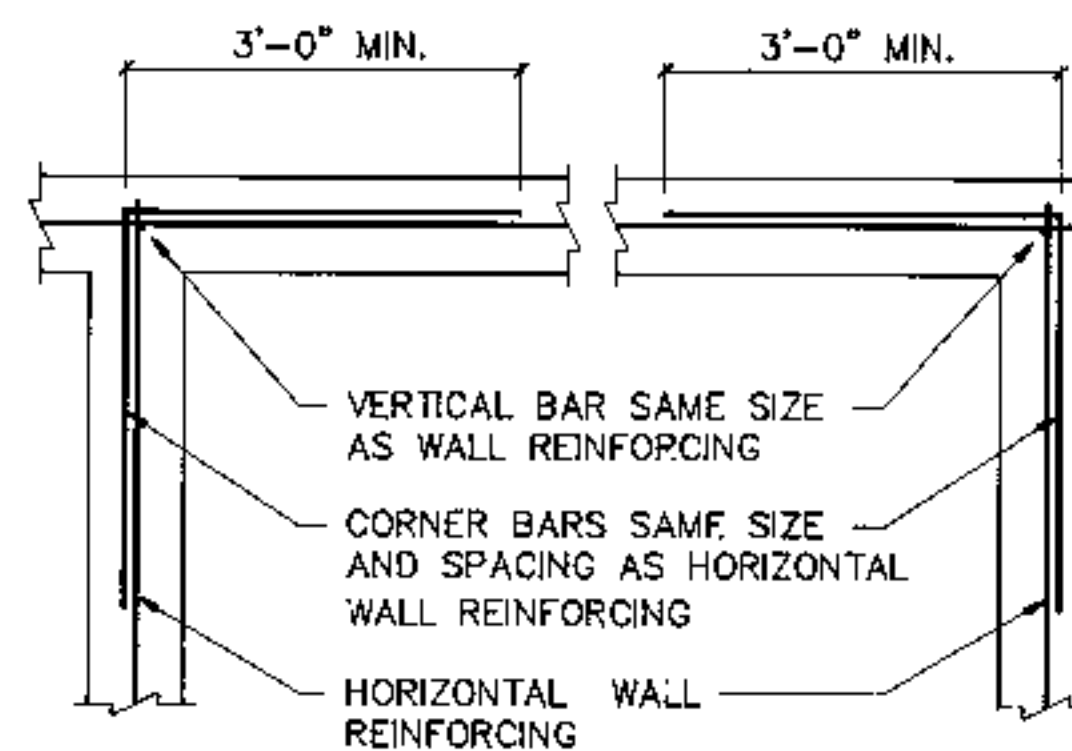
S-2

LOCATION	CONTENT (ASTM C150) TYPE I SACKS/CY	DESIGN F'C (PSI)	MAX. SIZE AGGREGATE (ASTM C33)	AIR ENTR %	MAX SLUMP "
PAD FOOTINGS	5	3000	1 1/2"	4-8%	3"
CONT. FOOTINGS	5	3000	1 1/2"	4-6%	3"
WALLS	5 1/2"	4000	3/4"	4-6%	4"
INT. SLABS	5 1/2"	4000	3/4"	2	3-4"
EXT. SLABS	5 1/2"	4000	3/4"	4-8%	3-4"
APRON SLABS	5 1/2"	4000	1 1/2"	4-6%	4"

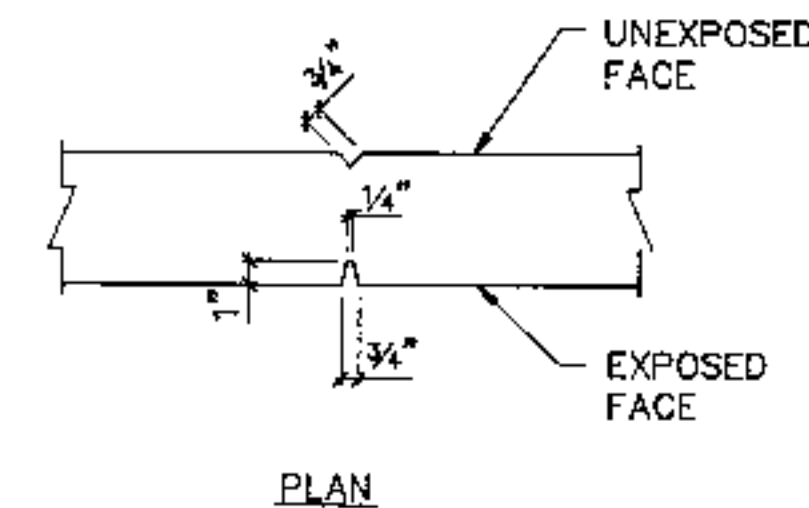
1 MINIMUM CONCRETE PROPERTIES



2 TYP. SLAB ON GRADE JOINT DETAIL AT TRANSIT FACILITY

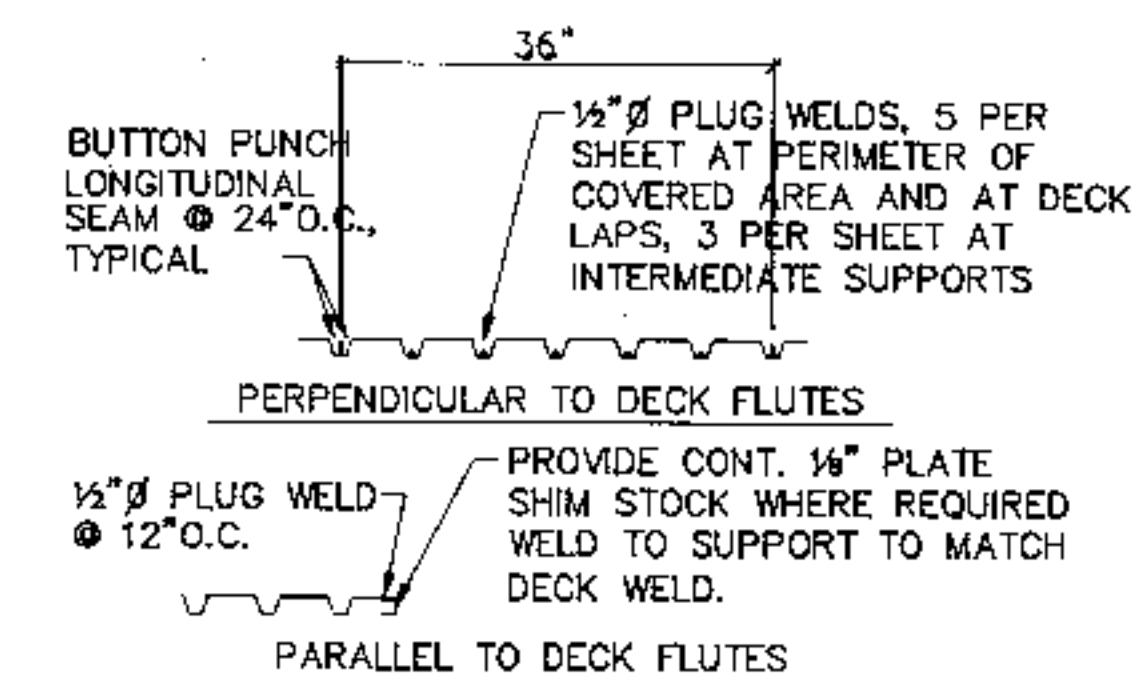


3 TYP. CONCRETE WALL REINFORCING AT INTERSECTIONS AND CORNERS (SINGLE CURTAIN)



CUT ALTERNATE HORIZ. BARS AT JOINT. LOCATE JOINT @ 15'-0"+ (TO MATCH WALL TILE)

4 TYP. CONCRETE WALL CONTROL JOINT



NOTES: PROVIDE WELD WASHERS AT ALL PLUG WELDS WHEN DECK IS 24 GA. OR LESS. SEAM WELD ALL LONGITUDINAL SEAMS @ 12" O.C. PROVIDE 2" MIN. END LAPS BETWEEN SHEETS. SEE ARCH. FOR SUMP PANS AT ROOF DRAINS, ETC. ALWAYS PROVIDE CONTINUOUS SUPPORT TO DECK.

5 TYP. METAL DECK WELD DETAIL

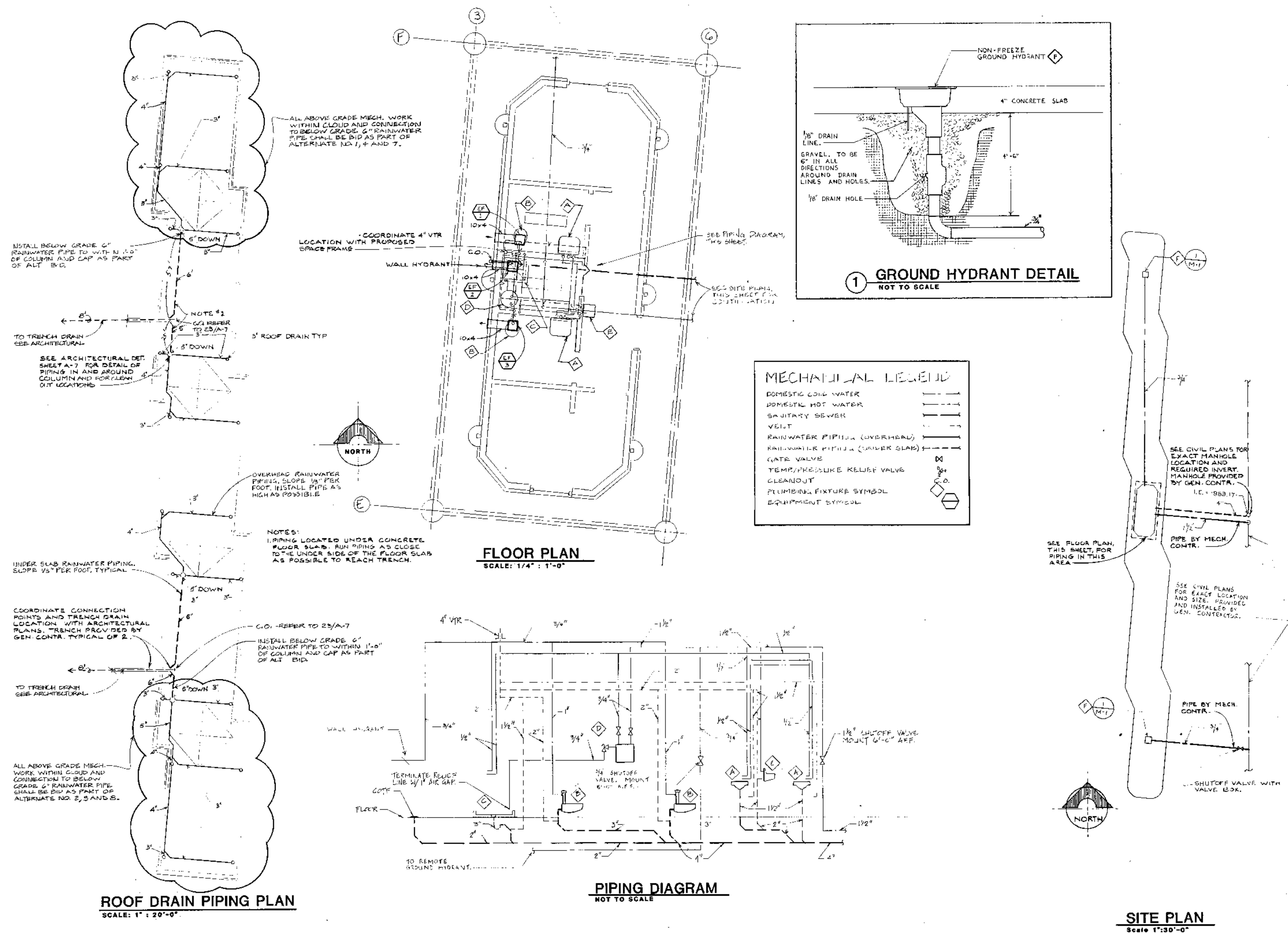


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SPOKANE, WASHINGTON



PROJECT NO. 8703
DRAWN LMG
CHECKED LHP/RLA
DATE 8/16/88



ELECTRICAL SYMBOLS LIST

 NOTE REFERENCE
 ROOM NUMBER
 FLUORESCENT FIXTURE
 INCANDESCENT OR H.I.O. FIXTURE
 PARKING LOT POLE FIXTURE
 SINGLE POLE SWITCH
 THREE-WAY SWITCH
 TIMER SWITCH INTERMATIC #FSM-400
 COMBINATION SWITCH & DUPLEX RECEPTACLE

-  DUPLEX RECEPTACLE
-  JUNCTION BOX
-  MOTOR CONNECTION
-  DISCONNECT SWITCH
-  PANELBOARD
-  CONCEALED CONDUIT
-  CROSSMATCH DENOTES WIRES
NO CROSSMATCH DENOTES 2 # 12 WIRES
-  EXPOSED CONDUIT
-  CONDUIT STUB-OUT
-  TELEPHONE OUTLET
-  OUTLET BOX FOR CARD READER. VERIFY SIZE.
MOUNT UP 54".
-  PROVISIONS FOR ELECTRIC DOOR STRIKE.
-  PROVISIONS FOR DOOR POSITION SWITCH WITH
1/8" HOLE IN HEAD OF DOOR FRAME.
-  OUTLET BOX FOR VIDEO MONITOR

LIGHTING FIXTURE SCHEDULE

TYPE 1 KEENE ACSS40
(2) FA012 LAMPS
SURFACE MOUNTED

TYPE 2 STERNER #BX20-A-10-2-N-150-S-240V-M-COMC
(1) 150M HPS LAMP (CLEAR)
ANODIZED LIGHT BRONZE FINISH
MOUNT ON CENTREON #HEQ-8.5, 9.4 OR 10.6
POLE AS NOTED ON DRAWING. TOP OF POLE
SHALL BE AT ELEVATION 123.0'. POLE FINISH
SHALL BE LIGHT COLORED SAND BLASTED AS
SELECTED BY ARCHITECT. CONTRACTOR SHALL
COORDINATE LOCATION OF HANGHOLE BASED ON
BURIAL DEPTH. SEE BASE DETAIL.

TYPE 3 STERNER #BX20-1-28-3-N-150-S-240V-M-COMC
(2) 180M HPS LAMPS (CLEAR)
FINISH & POLES SHALL BE THE SAME AS TYPE
#2.

TYPE 4 STERNER WPS-20-A-10-S-N-100S-120-NS-COMC
(1) 100M HPS LAMP (CLEAR)
NON-STANDARD BAKED ENAMEL FINISH SELECTED
BY ARCHITECT. MOUNT ON CENTREON #SER-5-
XXX CONCRETE POLE WITH LIGHT COLORED SAND
BLASTED FINISH AS SELECTED BY ARCHITECT.
SEE BASE DETAIL.

TYPE 5 ARCHITECTURAL AREA LIGHTING #ALC-804-42"-
70HPS-N00-MC-EA-CLEAR LENAX WITH 9"
RADIUS DOME CAP.
(1) 70M HPS LAMP (CLEAR)
OVERALL HEIGHT SHALL BE 42".
FINISH SHALL BE LIGHT COLORED SAND
BLASTED AS SELECTED BY ARCHITECT.
SEE BASE DETAIL

TYPE 6 DELETED

TYPE 7 LITHONIX #C240-W93
(2) FA012 LAMPS
SURFACE MOUNTED ON FLOOR OF ATTIC TO
ILLUMINATE SKYLITE. PROVIDE WIRE GUARD.
PROVIDE COLD WEATHER BASTT.

TYPE 8 DELETED

TYPE 9 DELETED

TYPE 10 STERNER #BX-18-AU-SAC-C-TOS-S-120-NS
(5) 100M HPS LAMPS (CLEAR)
MOUNT ON #BS413 POLE, 12.6" HIGH, 4.5"
DIA., 1/4" THICKNESS. TYPE "R" FLUSH
HINGED BASE. FINISHES SHALL BE NON-
STANDARD BAKED ENAMEL AS SELECTED BY
ARCHITECT. PROVIDE FULL WARRANTY ON DR
ACRYLIC GLOBES.

TYPE 11 PRESCOLITE #H013C11-W-120V
(1) 150M HPS LAMP (CLEAR)
PENDANT MOUNTED 16"-6" TO BOTTOM
PAINTED FINISH COLOR TO BE SELECTED

TYPE 12 LITHONIX #C140
(1) FA012 LAMP
SURFACE MOUNTED IN DISPLAY CASE

TYPE 13 PRESCOLITE #H010M09
(1) 70M HPS LAMP
WALL MOUNTED ON SIDE OF BEAM, SEE
ARCHITECTURAL DETAILS FOR EXACT HEIGHT.
PAINTED FINISH TO BE SELECTED

TYPE 14 LIGHTOLIER #10245
(1) FA012 LAMP
PROVIDE COLD WEATHER BALLAST
MOUNT IMMEDIATELY BELOW SOFFIT AT WINDOW
SEE DETAIL 10 - SHEET A-11.

LIGHTING BUDGET

CANOPY AREA 15,000 FT²
X 2.0 W/FT²

PARKING & CIRCULATION . 145,335 FT²
X 0.05 W/FT²

CONTACTOR SCHEDULE

ALL CONTACTORS SHALL HAVE 20A CONTACTS WITH 120V COILS CONNECTED AS REQUIRED BY PILOT CONTROL DEVICE. MOUNT CONTACTORS IN CONTACTOR CABINET. CONTACTORS SHALL BE EQUIVALENT TO ASCO #817 SERIES, SQUARE D AND G.E. CONTACTORS WILL BE ACCEPTABLE.

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A1  # POLE, CONTROLLED BY PHOTOCCELL/TIME CLOCK.
A2  DELETED
A3  # POLE, CONTROLLED BY PHOTOCCELL/TIME CLOCK.
B1  # POLE, CONTROLLED BY PHOTOCCELL/TIME CLOCK.
B2  # POLE, CONTROLLED BY PHOTOCCELL/TIME CLOCK.
B3  # POLE, CONTROLLED BY PHOTOCCELL/TIME CLOCK.
BN  (2) # POLE, CONTROLLED BY THERMOSTAT.

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SITE PLAN

$$1' = 30$$

NOTES

1. ALL PVC INSTALLED UNDER TRAFFIC AREAS SHALL BE SCHEDULE 80
2. ALT. #13 DE-ICE TYPE #5 FIXTURES BETWEEN BLDG. & PARKING LOTS (20 TOTAL).

44 Add. #2, Pgs. #9 & 10

45 Sheet E-1, site Plans

46 Palace Gate 15 and Flush J-box near southeast corner of property.

47 Provide signs and flagpole lighting as described below. Refer to Sheet A-

48 17 and other addenda for more specific locations and details.

49 Provide (3) type 115 for parking detail. Connect to CEN B-4 as shown.

1 See Attachment #2 for parking detail. Connect to CEN B-4 as shown.

2 Provide (3) type 115 fixtures for each of (2) parking signs (4 fixtures

3 total). See Attachment 2 for exact locations. Connect together and to CEN

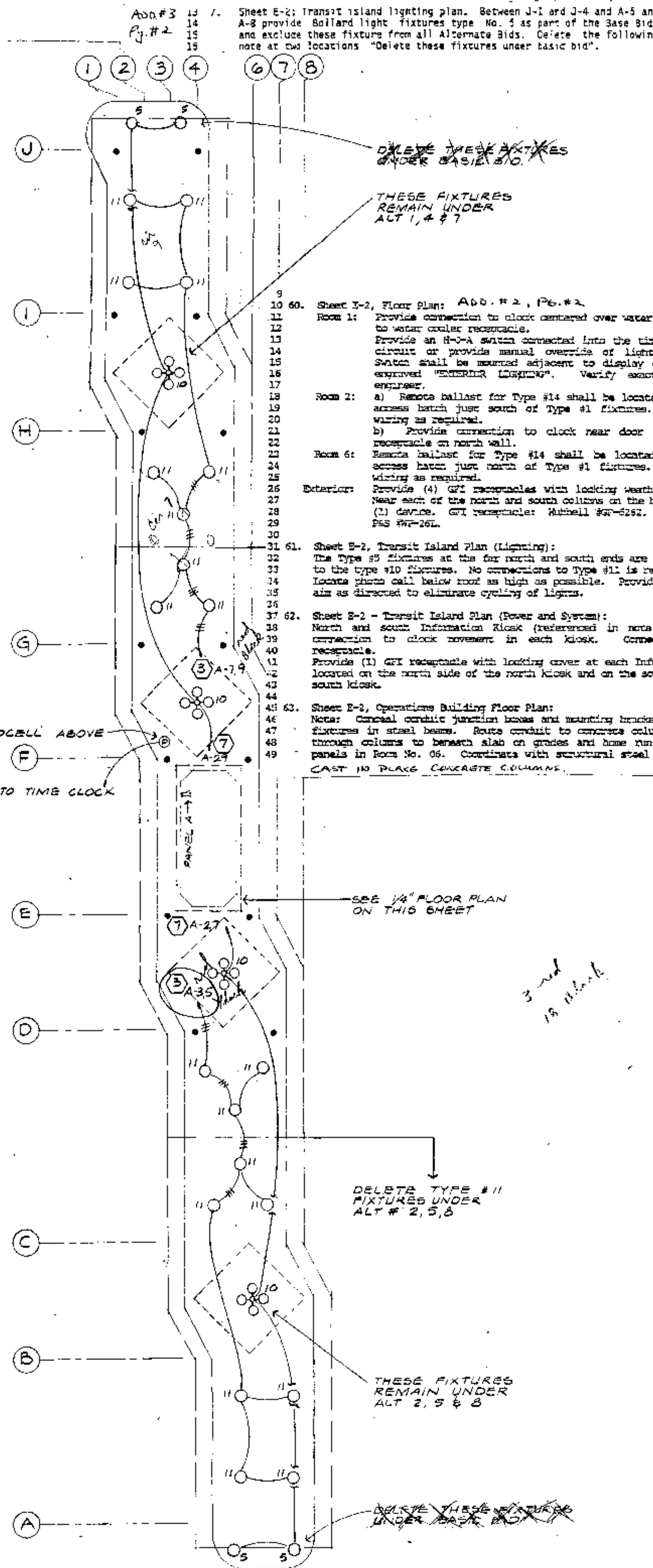
4 B-4 at the southeast 12 fixtures in the east parking lot.

5 Provide (3) type 115 fixtures for flagpole. See Attachment No. 4 for

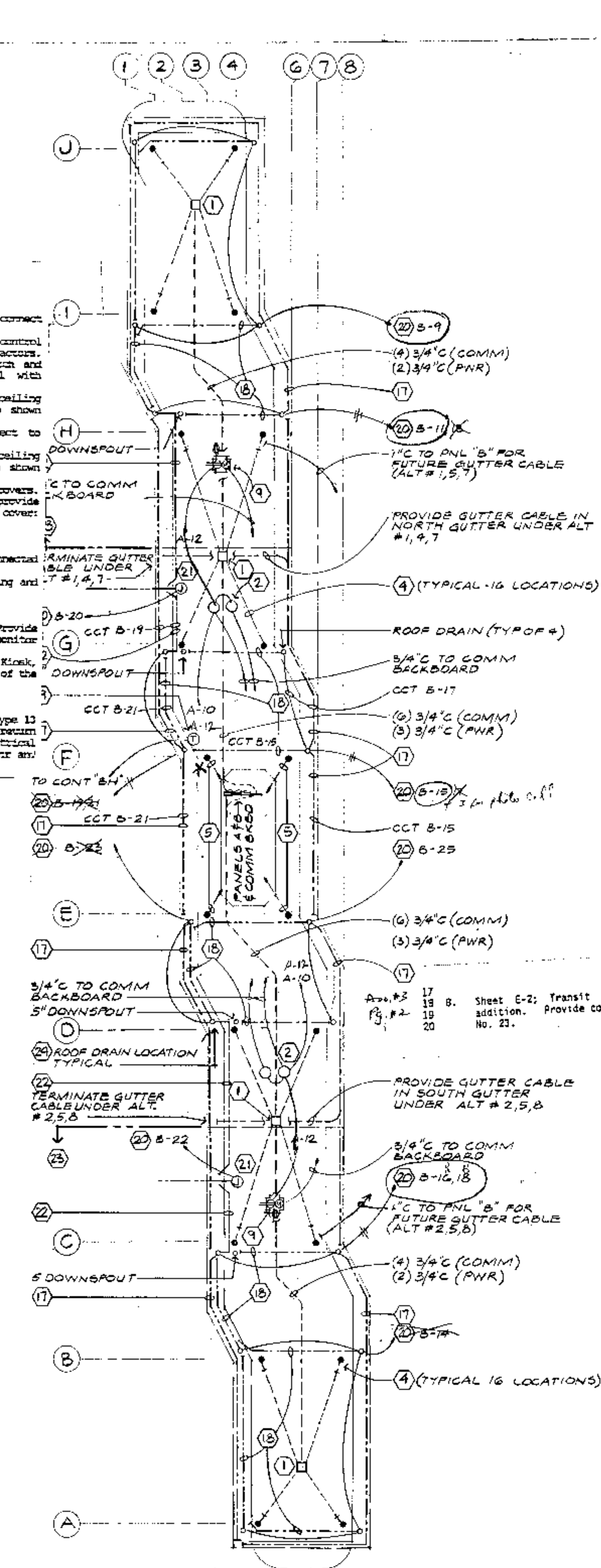
6 location and details.

7 Provide a flush J-box at the southeast 12 fixtures in the east parking lot

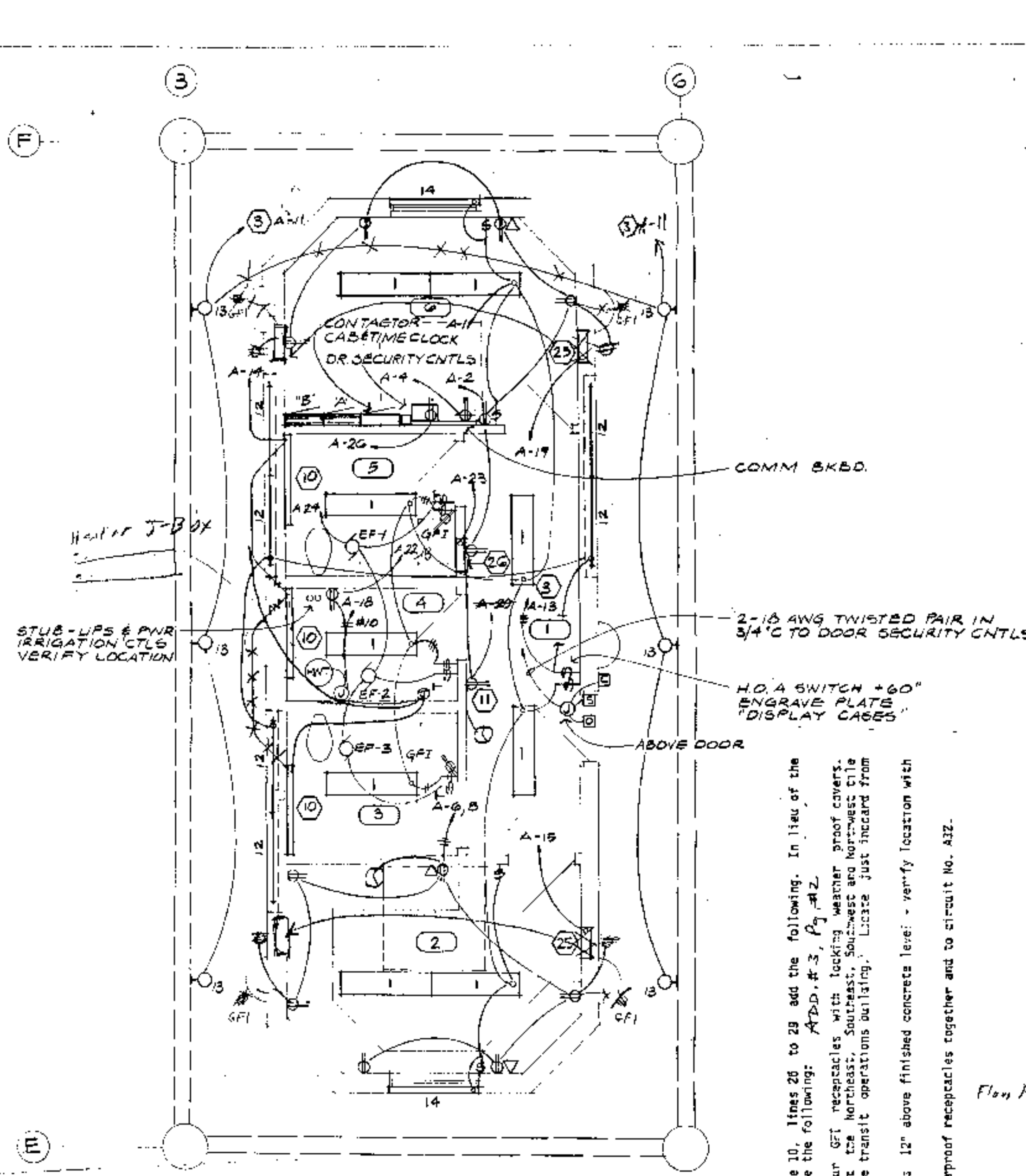
8 to connect the sign and flagpole lighting.



TRANSIT ISLAND PLAN
1" = 20' - 0"
LIGHTING - BASE BID

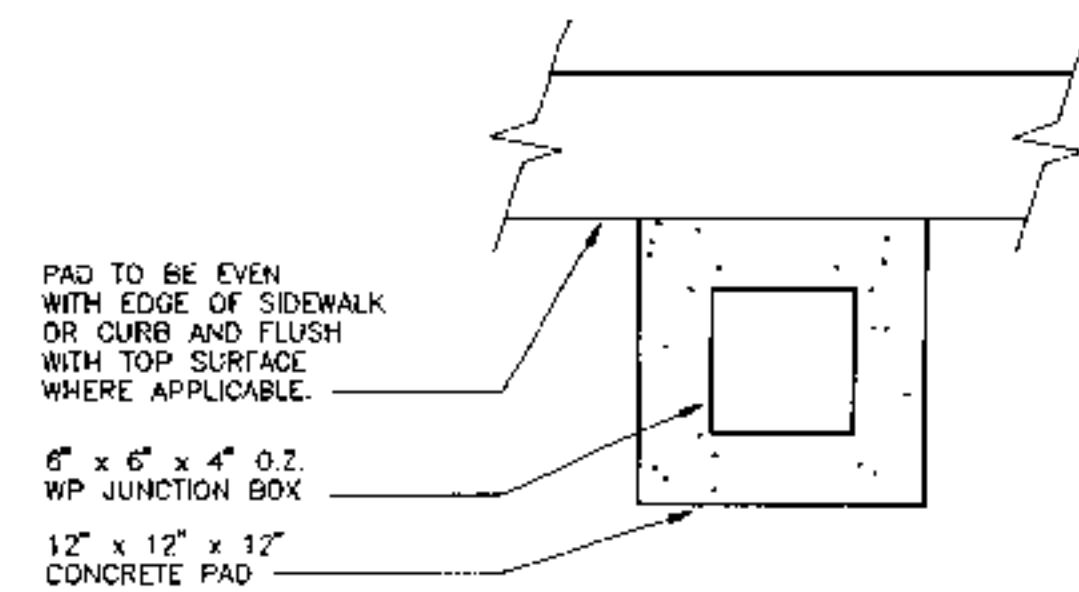


TRANSIT ISLAND PLAN
1" = 20' - 0"
POWER & SYSTEM BASE BID
EXCEPT AS NOTED

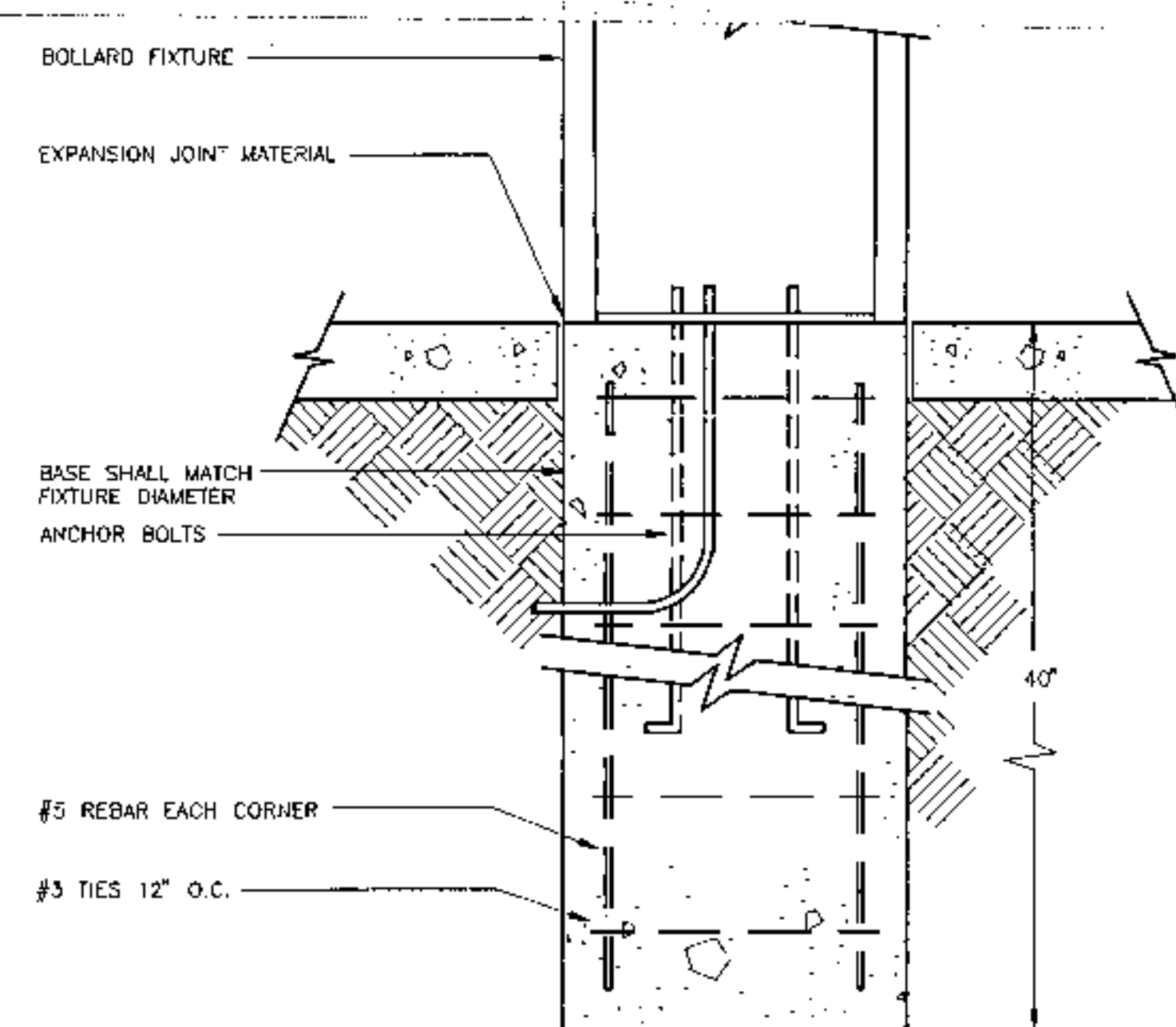


FLOOR PLAN
1/4" = 1' - 0"

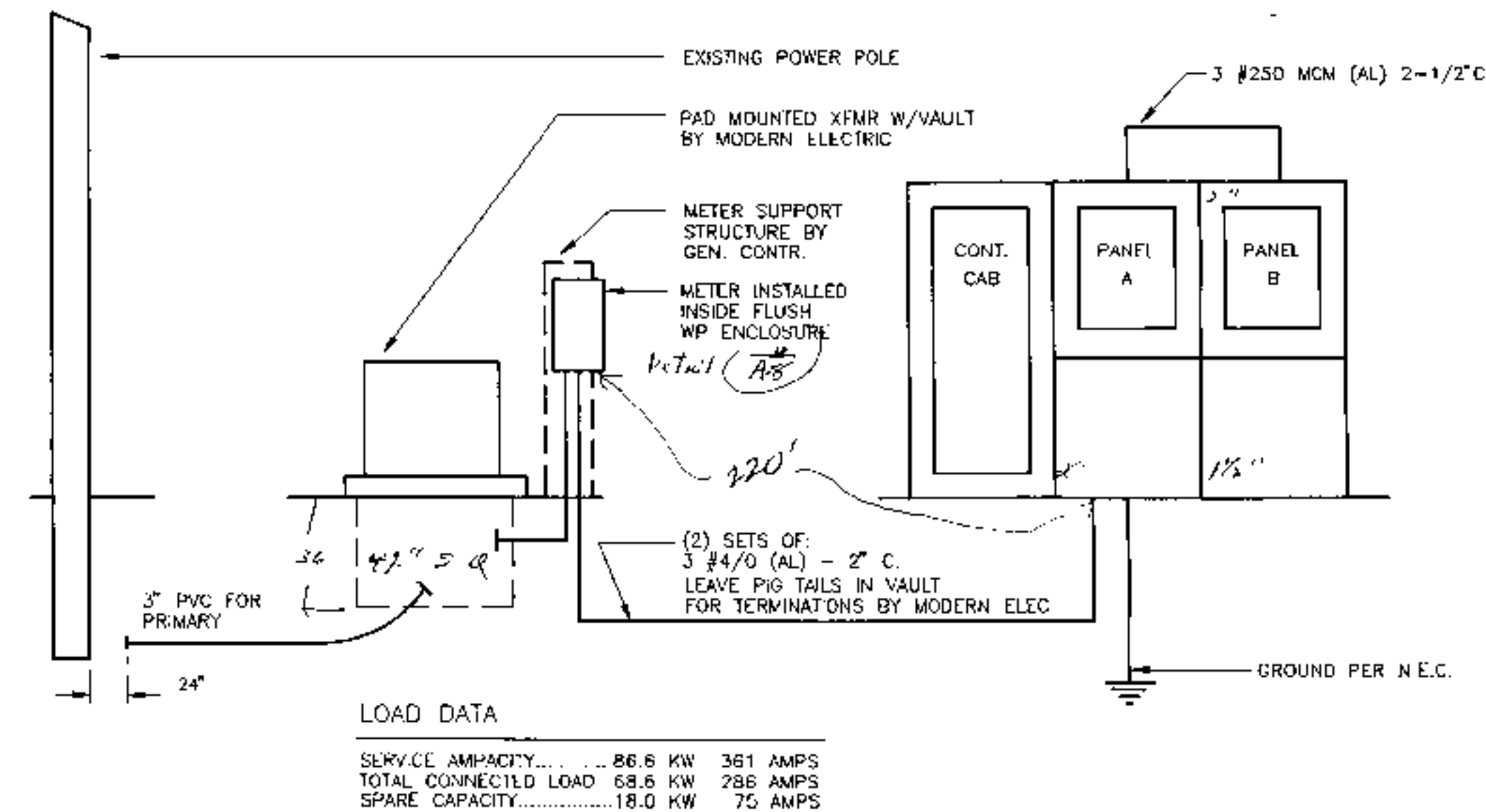
- ELECTRICAL NOTES**
- FLUSH CAST IRON JUNCTION BOX, 14x14x6 OZ #WT141406, PROVIDE CARRIER TO DIVIDE BOX FOR POWER (1/2") & COMMUNICATIONS (2/3"). CENTER IN PAVING PATTERN-SEE ARCHITECTURAL PLANS FOR EXACT LOCATION.
 - TELEPHONE AND INFORMATION KIOSKS. PROVIDE POWER CIRCUIT & COMMUNICATION CONDUITS AS SHOWN.
 - TO CONTACTOR "A1" & CIRCUIT AS SHOWN.
 - BASIC BID: (1) 1/2" CONDUIT & (1) 3/4" CONDUIT FROM FLUSH CAST IRON J-BOX STUBBED OUT OF TOP OF EACH COLUMN.
ALT #1, 4, 7: TERMINATE ABOVE MENTIONED CONDUITS WITHIN 12" OF BASE OF COLUMNS AT GRIDS H, I, J.
ALT #2, 5, 8: TERMINATE ABOVE MENTIONED CONDUITS WITHIN 12" OF BASE OF COLUMNS AT GRIDS A, B, C.
 - (1) 1/2" CONDUIT FROM PANEL "A" TO TOP OF COLUMN & (1) 3/4" CONDUIT FROM COMMUNICATIONS BACKBOARD TO TOP OF COLUMN.
 - DELETED
 - TO CONTACTOR "A3" & CIRCUIT AS SHOWN.
 - DELETED
 - INSTALL RECEPTACLE AND WEATHERPROOF J-BOX FOR VIDEO MONITOR WITHIN KIOSK CONSTRUCTED TO CONTAIN MONITOR. REFER TO ARCHITECTURAL DETAILS FOR LOCATIONS.
 - BASEBOARD HEATER, 1000W, 240V, MARKER #H2304.
 - CONCEAL RECEPTACLE WITHIN SKIRTS OF WATER COOLER.
 - TO CONTACTORS "B1" & "B2" & CIRCUIT AS SHOWN.
 - TO CONTACTOR "B2" & CIRCUIT AS SHOWN.
 - TO CONTACTOR "B3" & CIRCUIT AS SHOWN.
 - FLUSH J-BOX FOR ELECTRIC SIGN, MAKE REQUIRED.
 - FLUSH J-BOX FOR FUTURE TRAFFIC GATE. SEE DETAIL.
 - PROVIDE SMITH GATES #CRK SERIES HEAT CABLE IN ALL GUTTERS. ATTACH CABLES IN GUTTERS WITH NYLON FASTENERS. PROVIDE LENGTHS AS REQUIRED FOR A SINGLE RUN IN ALL GUTTERS AND AROUND ROOF DRAIN.
 - PROVIDE SMITH GATES #CRK-SERIES-HEAT CABLE INSIDE ALL ROOF DRAIN PIPES. PROVIDE LENGTHS AS REQUIRED FOR COMPLETE COVERAGE.
 - SMITH GATES #AT9ANC-1 THERMOSTAT WITH CAPILLARY TUBE AND BULB. INSTALL BELOW ROOF AND ATTACH BULB TO WALL OF RAINWATER LEADER. THERMOSTAT SHALL CONTROL CONTACTOR "BH".
 - TO CONTACTOR "BH" & CIRCUIT AS SHOWN.
 - FLUSH J-BOX AT END OF ROOF DRAIN PIPE BELOW SLAB. RUN CONDUIT INTO TOP OF PIPE AND INSTALL HEAT CABLE FULL LENGTH OF DRAIN LINE TO DAYLIGHT WEST OF DRIVEWAY.
 - RUN HEAT CABLE DOWN DOWNSPOUT, AND IN DRAIN PIPE BELOW SLAB AND TERMINATE IN DRAIN PIPE RUNNING WESTWARD.
 - DELETE AND OR REROUTE HEAT CABLE ABOVE GRADE SHOWN THIS SIDE OF THIS LINE UNDER ALTERNATES #1, 4, 2 OR #2, 5, 8 AS APPLICABLE.
 - INSTALL HEATING CABLE J-BOX(S) ON BOTTOM SIDE OF ROOF DECK NEAR ROOF DRAIN. RUN GUTTER CABLE UP THRU ROOF DRAIN TO GET TO ROOF GUTTERS. EACH DRAIN IS TO HAVE FREEZE PROTECTION BY MEANS OF RUNNING CABLE UP THRU AND AROUND ROOF DRAIN AND BACK DOWN INTO DRAIN PIPES.
 - WALL HEATER, 4000W, 240V, MARKER #H779T. RECESS MOUNTED UP 18" ABOVE FLOOR.
 - WALL HEATER, 3000W, 240V, MARKER #H778T. RECESS MOUNTED UP 18" ABOVE FLOOR.



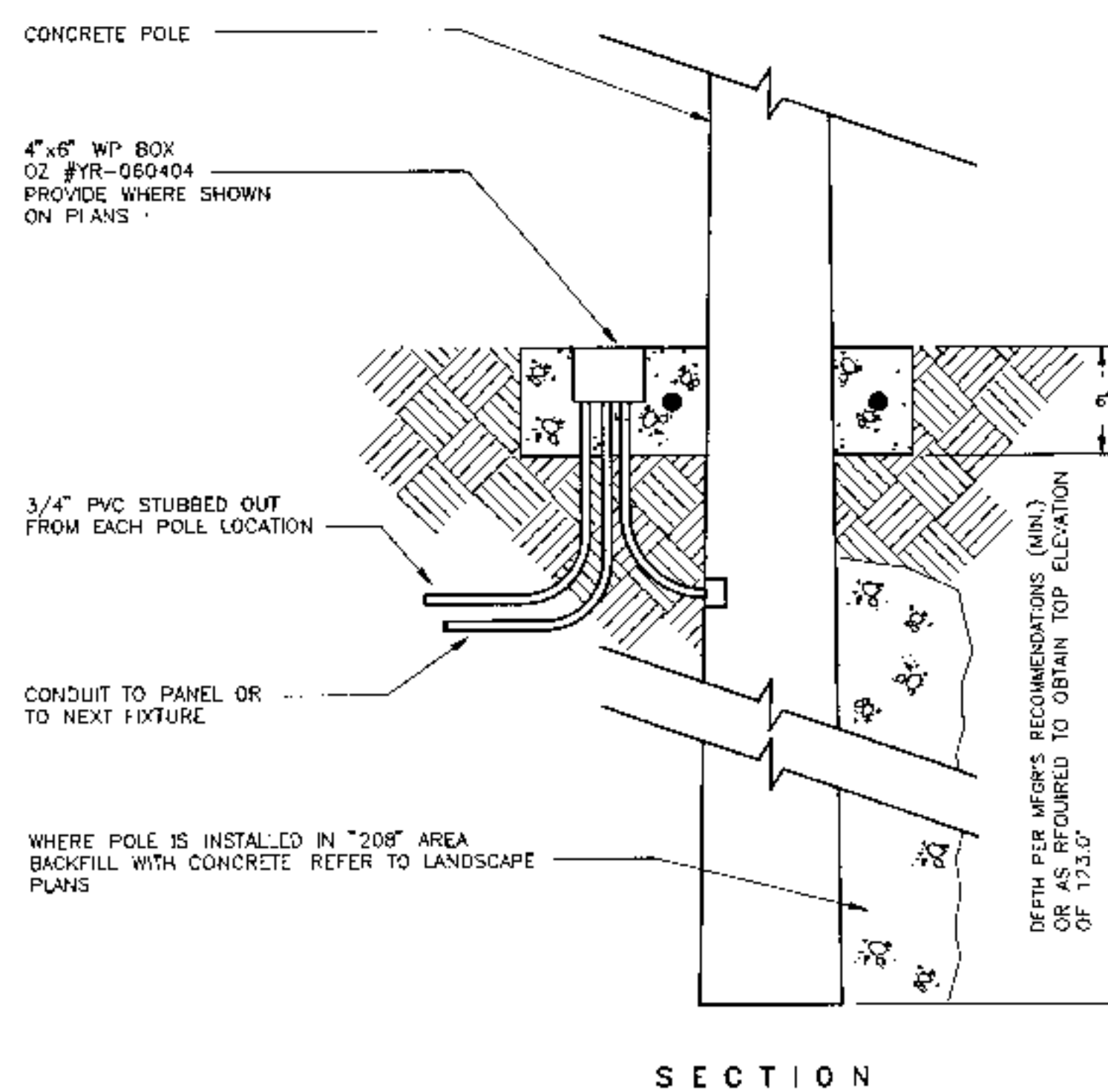
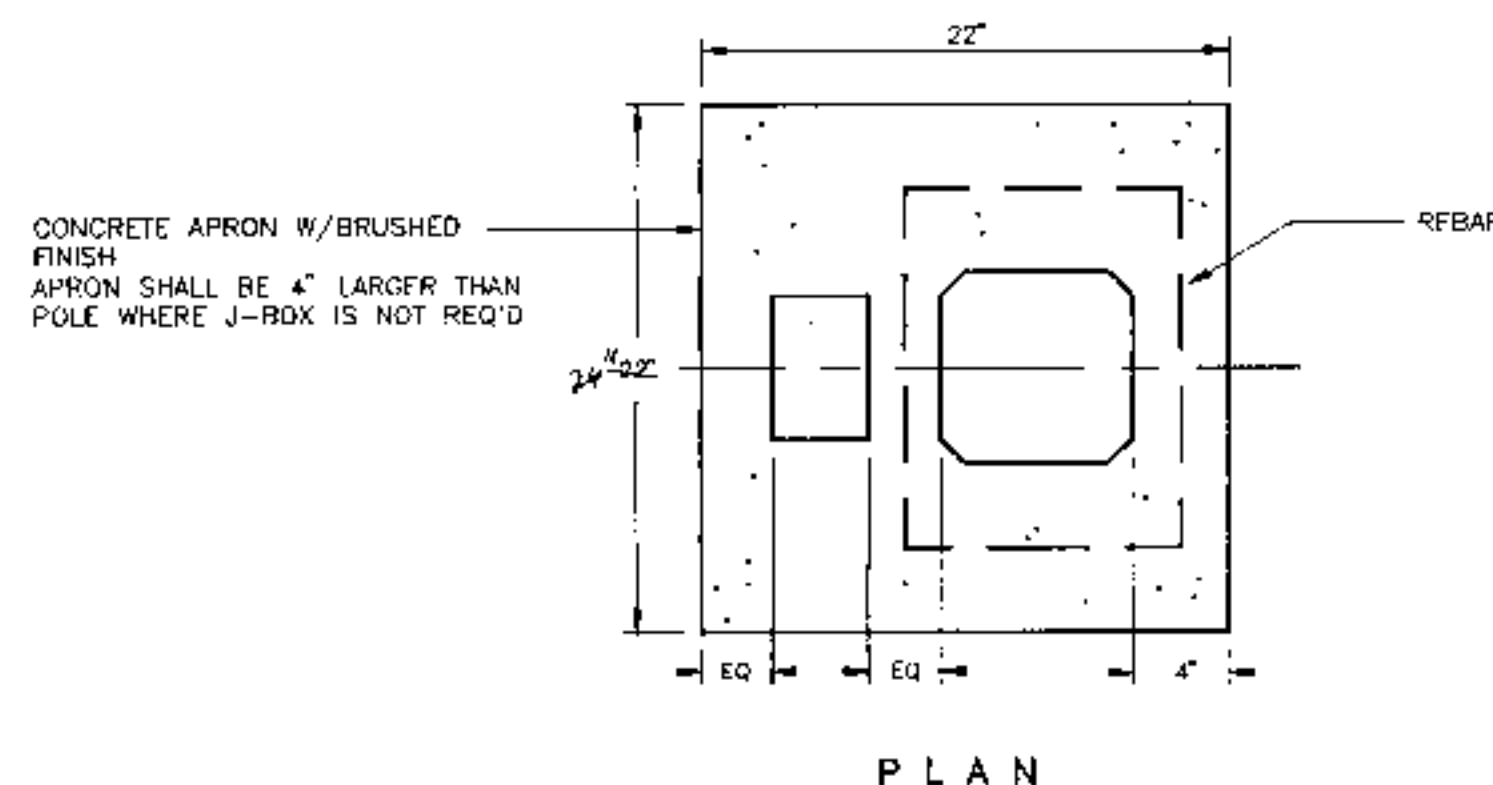
FLUSH J-BOX
NOT TO SCALE



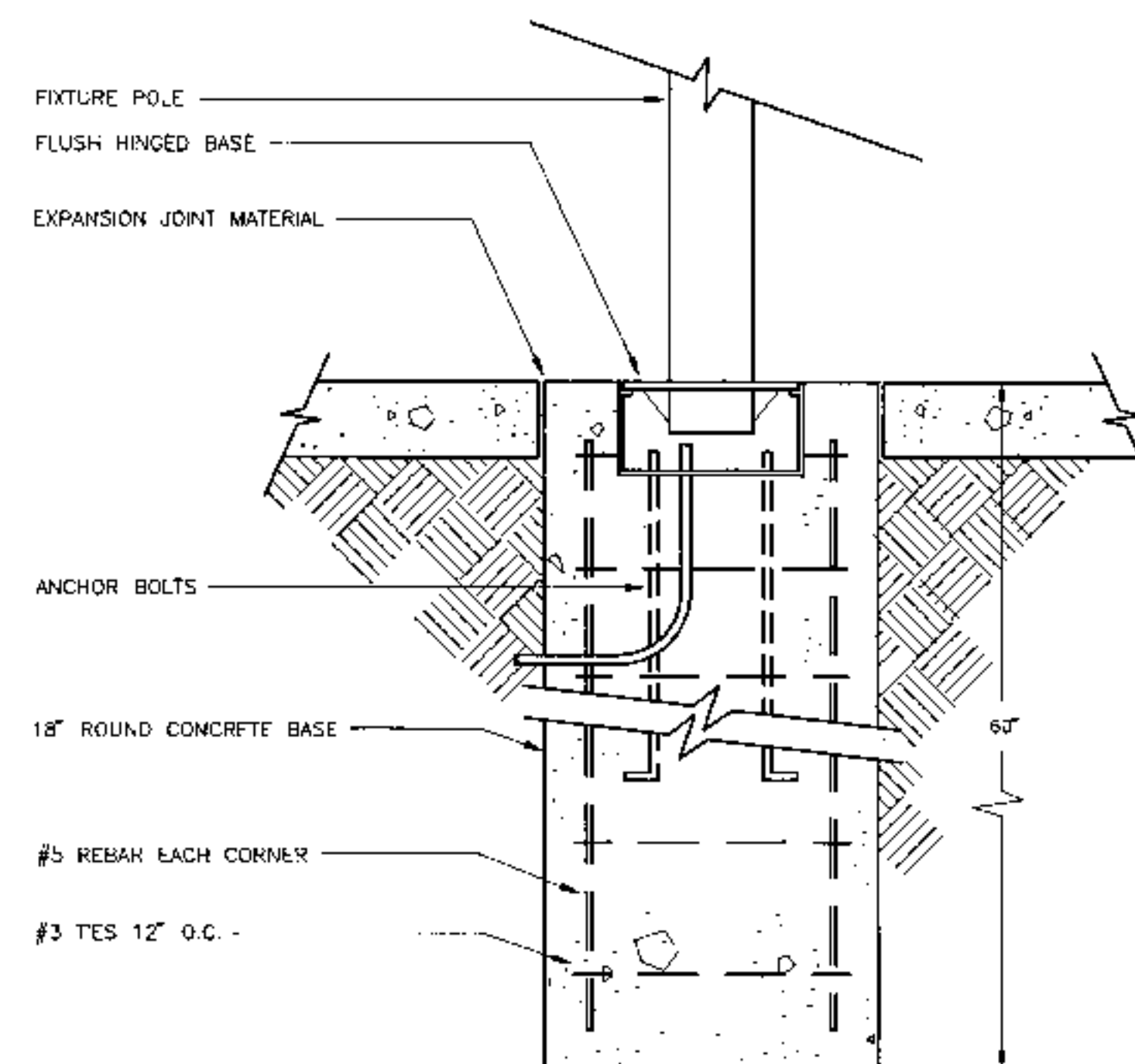
POLE BASE DETAIL
NOT TO SCALE TYPE #5



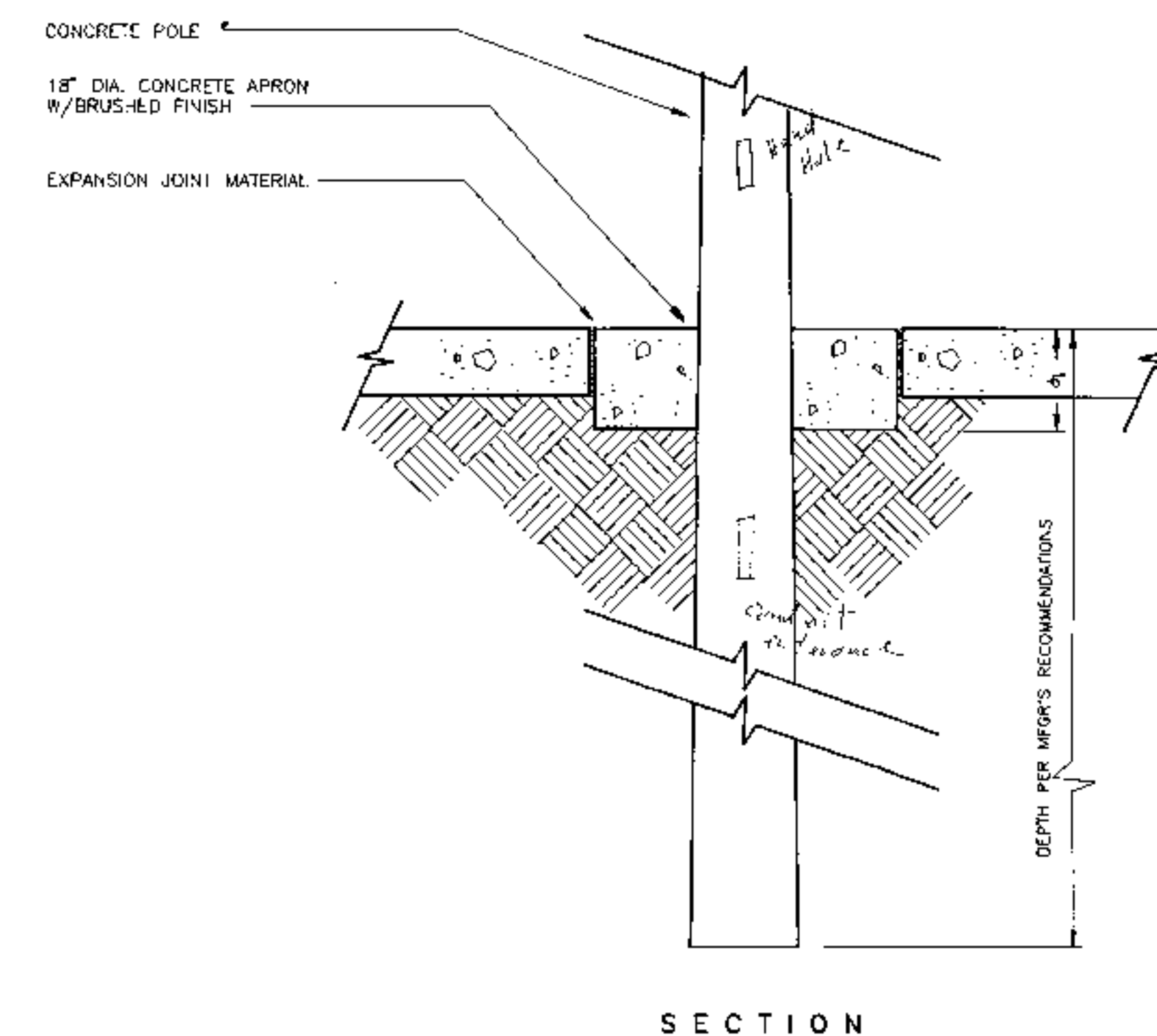
POWER RISER DIAGRAM
NOT TO SCALE



POLE BASE DETAIL
NOT TO SCALE TYPES #2 & #3



POLE BASE DETAIL
NOT TO SCALE TYPE #10



POLE BASE DETAIL
NOT TO SCALE TYPE #4

- LIGHTING FIXTURE SCHEDULE**
- TYPE 1 KEENE #C8240**
(2) F40T12 LAMPS
SURFACE MOUNTED
- TYPE 2 STERNER #EX20-A-10-2-N-150-S-240V-M-CONC**
(1) 150W HPS LAMP (CLEAR)
ANODIZED LIGHT BRONZE FINISH
MOUNT ON CENTRECON #MEQ-8.5.9.4 OR 10.6
POLE AS NOTED ON DRAWING. TOP OF POLE
SHALL BE AT ELEVATION 123.0'. POLE FINISH
SHALL BE LIGHT COLORED SAND BLASTED AS
SELECTED BY ARCHITECT. CONTRACTOR SHALL
COORDINATE LOCATION OF HANGHOLE BASED ON
BURIAL DEPTH. SEE BASE DETAIL.
- TYPE 3 STERNER #EX20-1-28-3-N-150-S-240V-M-CONC**
(2) 150W HPS LAMPS (CLEAR)
FINISH & POLES SHALL BE THE SAME AS TYPE
#2.
- TYPE 4 STERNER #DPS-20-A-10-5-N-100S-120-MS-CONC**
(1) 100W HPS LAMP (CLEAR)
NON-STANDARD BAKED ENAMEL FINISH SELECTED
BY ARCHITECT. MOUNT ON CENTRECON #SER-5-
XXX CONCRETE POLE WITH LIGHT COLORED SAND
BLASTED FINISH AS SELECTED BY ARCHITECT.
SEE BASE DETAIL.
- TYPE 5 ARCHITECTURAL AREA LIGHTING #ALC-804-42"**
70NPS-MOD-NO-EA-CLEAR LEXAN WITH 9"
RADIUS DOME CAP.
(1) 70W HPS LAMP (CLEAR)
OVERALL HEIGHT SHALL BE 42".
FINISH SHALL BE LIGHT COLORED SAND
BLASTED AS SELECTED BY ARCHITECT.
SEE BASE DETAIL.
- TYPE 6 DELETED**
- TYPE 7 LITHONIA #C240-M09**
(2) F40T12 LAMPS
SURFACE MOUNTED ON FLOOR OF ATTIC TO
ILLUMINATE SKYLITE. PROVIDE WIRE GUARD.
PROVIDE COLD WEATHER BALLAST.
- TYPE 8 DELETED**
- TYPE 9 DELETED**
- TYPE 10 STERNER #GE-18-AU-SAC-C-705-S-120-MS**
(5) 100W HPS LAMPS (CLEAR)
MOUNT ON #RS413 POLE, 12.5' HIGH, 4.5"
DIA. M/25" THICKNESS. TYPE "TM" FLUSH
HINGED BASE. FINISHES SHALL BE NON-
STANDARD BAKED ENAMEL AS SELECTED BY
ARCHITECT. PROVIDE FULL WARRANTY ON DR
ACRYLIC GLOWES.
- TYPE 11 PRESCOLITE #MD13C11-N-120V**
(1) 150W HPS LAMP (CLEAR)
PENDANT MOUNTED 15'-6" TO BOTTOM
PAINTED FINISH COLOR TO BE SELECTED
- TYPE 12 LITHONIA #C140**
(1) F40T12 LAMP
SURFACE MOUNTED IN DISPLAY CASE
- TYPE 13 PRESCOLITE #MD10N09**
(1) 70W HPS LAMP
WALL MOUNTED ON SIDE OF BEAM. SEE
ARCHITECTURAL DETAILS FOR EXACT HEIGHT.
PAINTED FINISH TO BE SELECTED
- TYPE 14 LIGHTOLIER #10245**
(1) F30T12 LAMP
PROVIDE COLD WEATHER BALLAST
MOUNT IMMEDIATELY BELOW SOFFIT AT WINDOW
SEE DETAIL 10 - SHEET A-11.

LIGHTING BUDGET

CANOPY AREA	15,000 FT ²
	X 2.0 W/FT ²
	30,000 W
PARKING & CIRCULATION	145,335 FT ²
	X 0.05 W/FT ²
	7,267 W
TOTAL BUDGET	37,267 W
ACTUAL LIGHTING LOAD	17,716 W

CONTRACTOR SCHEDULE

ALL CONTACTORS SHALL HAVE 20A CONTACTS WITH 120V COILS CONNECTED AS REQUIRED BY
PILOT CONTROL DEVICE. MOUNT CONTACTORS IN CONTACTOR CABINET. CONTACTORS SHALL
BE EQUIVALENT TO ASCO #917 SERIES, SQUARE D AND O.E. CONTACTORS WILL BE
ACCEPTABLE.

- A1 8 POLE, CONTROLLED BY PHOTOCELL/TIME CLOCK.
- A2 DELETED.
- A3 4 POLE, CONTROLLED BY PHOTOCELL/TIME CLOCK.
- B1 4 POLE, CONTROLLED BY PHOTOCELL/TIME CLOCK.
- B2 5 POLE, CONTROLLED BY PHOTOCELL/TIME CLOCK.
- B3 6 POLE, CONTROLLED BY PHOTOCELL/TIME CLOCK.
- BH (2) 8 POLE, CONTROLLED BY THERMOSTAT.

SITE PLAN

1" = 30'

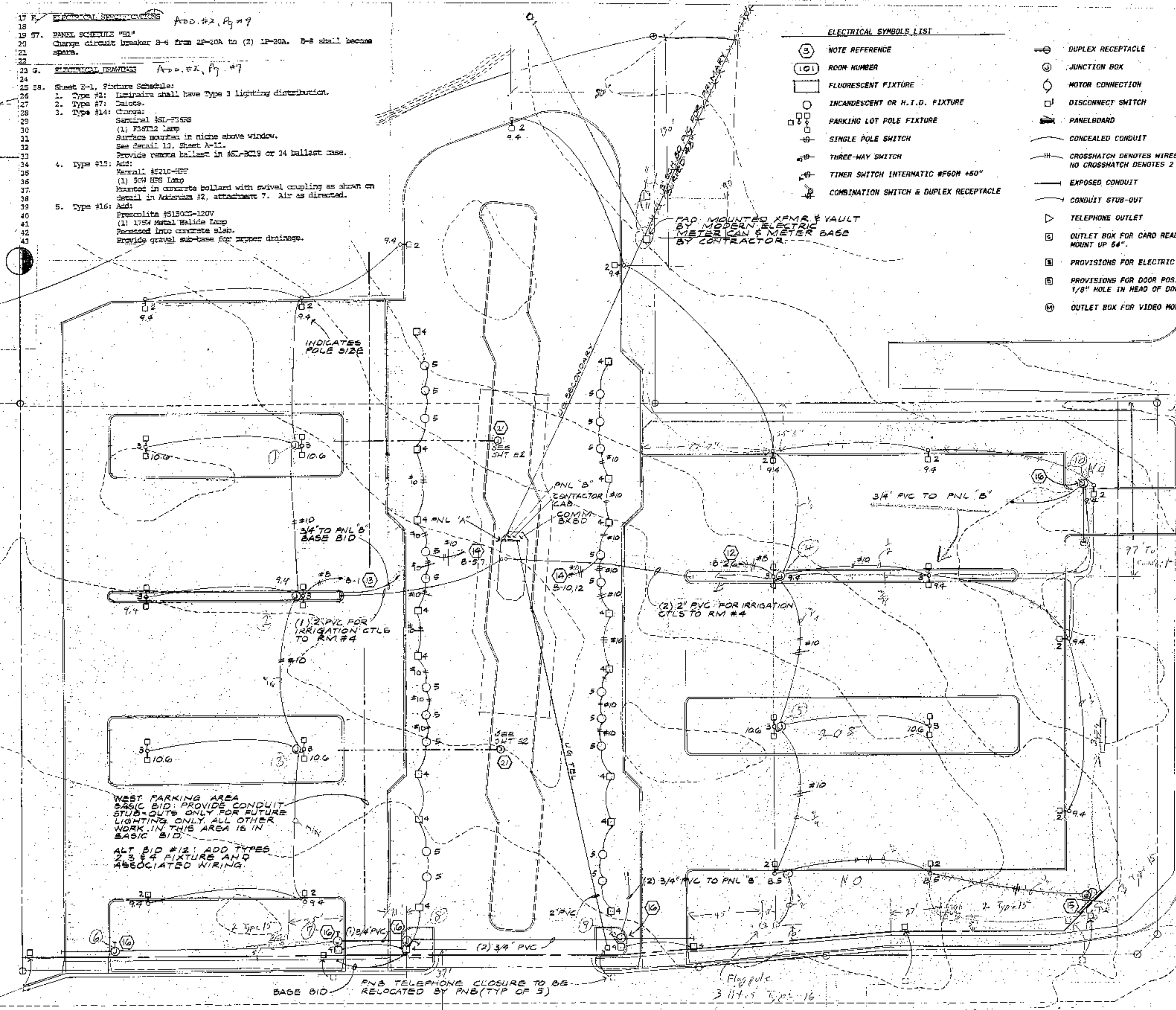
NOTES

1. ALL PVC INSTALLED UNDER TRAFFIC
ARABAS SHALL BE SCHEDULE 80

2. ALT #13 DE SITE TYPE #5 FIXTURES BETWEEN
BLDG & PARKING LOTS (20 TOTAL).

- ELECTRICAL SYMBOLS LIST**
- NOTE REFERENCE
 - ROOM NUMBER
 - FLUORESCENT FIXTURE
 - INCANDESCENT OR H.T.D. FIXTURE
 - PARKING LOT POLE FIXTURE
 - SINGLE POLE SWITCH
 - THREE-WAY SWITCH
 - TIMER SWITCH INTERMATIC #F60H #60"
 - COMBINATION SWITCH & DUPLEX RECEPTACLE

- DUPLEX RECEPTACLE
- JUNCTION BOX
- MOTOR CONNECTION
- DISCONNECT SWITCH
- PANELBOARD
- CONCEALED CONDUIT
- CROSSHATCH DENOTES WIRES
NO CROSSHATCH DENOTES 2 #12 WIRES
- EXPOSED CONDUIT
- CONDUIT STUB-OUT
- TELEPHONE OUTLET
- OUTLET BOX FOR CARD READER VERIFY SIZE.
MOUNT UP 64"
- PROVISIONS FOR ELECTRIC DOOR STRIKE
- PROVISIONS FOR DOOR POSITION SWITCH WITH
1/8" HOLE IN HEAD OF DOOR FRAME
- OUTLET BOX FOR VIDEO MONITOR



44 Sheet E-1, Site Plan Add.#2, Pgs #9 & 10

45 Select Note 45 and flush 7-box near southeast corner of property.

46 Provide sign and flagpole lighting as described below. Refer to Sheet A-17 and other sheets for more specific locations and details.

47 Provide (3) Type #15 fixtures at the entry sign near the southeast corner. See Attachment No. 7 for mounting details. Connect to OCT 9-4 as shown.

48 Provide (2) Type #15 fixtures for each of (2) parking signs (4 fixtures total). See Attachment 2 for exact locations. Connect together and to OCT 9-4 as shown.

49 Provide (2) Type #15 fixtures for flagpoles. See Attachment No. 4 for location and details.

50 Provide a flush 7-box at the southwest #2 fixtures in the east parking lot to connect the sign and flagpole lighting.



TAN BOYLE HEYAMOTO ARCHITECTS IN ASSOCIATION WITH KIRKWOOD ARCHITECTS AND ASSOCIATES
SUITE 715 SOUTH 9 WASHINGTON
SPOKANE, WASHINGTON 83204
(509) 455-8048

SPOKANE TRANSIT AUTHORITY
VALLEY TRANSIT CENTER
FOURTH AVENUE & UNIVERSITY ROAD
SPOKANE, WASHINGTON

PROJECT NO. 8708
DRAWN DDD
CHECKED CJH
DATE 7-16-88

ADD #3 13 1. Sheet E-2: Transit island lighting plan. Between J-1 and J-4 and A-5 and
14 1-3 provide Ballast light fixtures Type No. 5 as part of the base BID,
15 and exclude these fixtures from all Alternate Bids. Delete the following
16 note at two locations "Delete these fixtures under basic bid".

DELETE THESE FIXTURES
UNDER BASIC BID

THESE FIXTURES
REMAIN UNDER
ALT. # 4 & 7

60. Sheet E-2, Floor Plan: Add #2, Pg. #2

Room 1: Provide connection to clock centered over water cooler, connect
to water cooler receptacle.
Provide an N-20 switch connected into the time clock control
circuit or provide manual override of lighting controls.
Switch shall be mounted adjacent to display case switch and
engraved "EMERGENCY LIGHTING". Verify exact control with
engineer.

Room 2: a) Remove ballast for Type #14 shall be located above ceiling
across hatch just south of Type #1 fixtures. Revise shown
wiring as required.
b) Provide connection to clock near door and connect to
receptacle on north wall.

Room 5: Remove ballast for Type #14 shall be located above ceiling
across hatch just north of Type #1 fixtures. Revise shown
wiring as required.

Exterior: Provide (4) GFI receptacles with locking weatherproof covers.
Near each of the north and south columns on the building provide
(1) device. GFI receptacles: Hubbell 807-2262. Locking cover:
P&S 807-2261.

61. Sheet E-2, Transit Island Plan (Lighting):

The Type #5 fixtures at the far north and south ends are to be connected
to the Type #10 fixtures. No connections to Type #11 is required.
Locate photo cell below roof as high as possible. Provide shielding and
aim as directed to eliminate cycling of lights.

62. Sheet E-2 - Transit Island Plan (Power and System):

North and south Information Kiosk (referenced in note 9): Provide
connection to clock movement in each kiosk. Connect to monitor
receptacle.
Provide (1) GFI receptacle with locking cover at each Information Kiosk,
located on the north side of the north kiosk and on the south side of the
south kiosk.

63. Sheet E-2, Operations Building Floor Plan:

Note: Conceal conduit junction boxes and mounting brackets for Type 13
fixtures in steel bases. Route conduit to concrete columns and return
through columns to beneath slab on grades and time run to electrical
panels in Room No. 06. Coordinate with structural steel fabricator and
CAST IN PLACE CONCRETE COLUMNS.

PHOTOCELL ABOVE
ROOF

TO TIME CLOCK

SEE 1/4" FLOOR PLAN
ON THIS SHEET

DELETE TYPE #11
FIXTURES UNDER
ALT. # 2, 5, & 8

THESE FIXTURES
REMAIN UNDER
ALT. # 2, 5, & 8

DELETE THESE FIXTURES
UNDER BASIC BID

TRANSIT ISLAND PLAN

1" = 20' - 0"

LIGHTING - BASE BID



TRANSIT ISLAND PLAN

1" = 20' - 0"

POWER & SYSTEM BASE BID
EXCEPT AS NOTED



9. Sheet E-2: Transit island plan, power and system, make the following
addition. Provide column conduit stub out as indicated on attachment
No. 23.

FLOOR PLAN

1/4" = 1' - 0"



ELECTRICAL NOTES

1. FLUSH CAST IRON JUNCTION BOX, 14x14x6 OZ #Y141406.
PROVIDE CARRIER TO DIVIDE BOX FOR POWER (1/2") &
COMMUNICATIONS (1/2"). CENTER IN PAVING PATTERN-
SEE ARCHITECTURAL PLANS FOR EXACT LOCATION.
2. TELEPHONE AND INFORMATION KIOSKS. PROVIDE POWER
CIRCUIT & COMMUNICATIONS CONDUITS AS SHOWN.
3. TO CONTACTOR "A1" & CIRCUIT AS SHOWN.
4. BASIC BID: (1) 1/2" CONDUIT & (1) 3/4" CONDUIT
FROM FLUSH CAST IRON J-BOX STUBBED OUT OF TOP OF
EACH COLUMN.
ALT #1, 4, 7: TERMINATE ABOVE MENTIONED CONDUITS
WITHIN 12" OF BASE OF COLUMNS AT GRIDS H, I, J.
ALT #2, 5, 8: TERMINATE ABOVE MENTIONED CONDUITS
WITHIN 12" OF BASE OF COLUMNS AT GRIDS A, B, C.
(1) 1/2" CONDUIT FROM PANEL "A" TO TOP OF COLUMN &
(1) 3/4" CONDUIT FROM COMMUNICATIONS BACKBOARD TO
TOP OF COLUMN.
5. DELETED
6. DELETED
7. TO CONTACTOR "A3" & CIRCUIT AS SHOWN.
8. DELETED
9. INSTALL RECEPTACLE AND WEATHERPROOF J-BOX FOR VIDEO
MONITOR WITHIN KIOSK CONSTRUCTED TO CONTAIN
MONITOR. REFER TO ARCHITECTURAL DETAILS FOR
LOCATIONS.
10. BASEBOARD HEATER, 1000W, 240V, MARKER #H2304.
11. CONCEAL RECEPTACLE WITHIN SKIRTS OF WATER COOLER.
12. TO CONTACTORS "B1" & "B2" & CIRCUIT AS SHOWN.
13. TO CONTACTOR "B2" & CIRCUIT AS SHOWN.
14. TO CONTACTOR "B3" & CIRCUIT AS SHOWN.
15. FLUSH J-BOX FOR ELECTRIC SIGN, MAKE REQUIRED

16. FLUSH J-BOX FOR FUTURE TRAFFIC GATE. SEE DETAIL.
17. PROVIDE SMITH GATES #WRK SERIES HEAT CABLE IN ALL
GUTTERS. ATTACH CABLES IN GUTTERS WITH NYLON
FASTENERS. PROVIDE LENGTHS AS REQUIRED FOR A
SINGLE RUN IN ALL GUTTERS AND AROUND ROOF DRAIN.
18. PROVIDE SMITH GATES #BKK-SERIES-HEAT CABLE INSIDE
ALL ROOF DRAIN PIPES. PROVIDE LENGTHS AS REQUIRED
FOR COMPLETE COVERAGE.
19. SMITH GATES #A19ANC-3 THERMOSTAT WITH CAPILLARY
TUBE AND BULB. INSTALL BELOW ROOF AND ATTACH BULB
TO WALL OF RAINWATER LEADER. THERMOSTAT SHALL
CONTROL CONTACTOR "BH".
20. TO CONTACTOR "BH" AND CIRCUIT AS SHOWN.
21. FLUSH J-BOX AT END OF ROOF DRAIN PIPE BELOW SLAB.
RUN CONDUIT INTO TOP OF PIPE AND INSTALL HEAT CABLE
FULL LENGTH OF DRAIN LINE TO DAYLIGHT WEST OF
DRIVEWAY.
22. RUN HEAT CABLE DOWN DOWNSPOUT, AND IN DRAIN PIPE
BELOW SLAB AND TERMINATE IN DRAIN PIPE RUNNING
WESTWARD.
23. DELETE AND OR REROUTE HEAT CABLE ABOVE GRADE SHOWN
THIS SIDE OF THIS LINE UNDER ALTERNATES #1, 4, 2 OR
#2, 5, 8 AS APPLICABLE.
24. INSTALL HEATING CABLE J-BOX(S) ON BOTTOM SIDE OF
ROOF DECK NEAR ROOF DRAIN. RUN GUTTER CABLE UP
THRU ROOF DRAIN TO GET TO ROOF GUTTERS. EACH DRAIN
IS TO HAVE FREEZE PROTECTION BY MEANS OF RUNNING
CABLE UP THRU AND AROUND ROOF DRAIN AND BACK DOWN
INTO DRAIN PIPES.
25. WALL HEATER, 4000W, 240V, MARKER #H779T. RECESS
MOUNTED UP 18" ABOVE FLOOR.
26. WALL HEATER, 3000W, 240V, MARKER #H778T. RECESS
MOUNTED UP 18" ABOVE FLOOR.

SPOKANE TRANSIT AUTHORITY
VALLEY TRANSIT CENTER

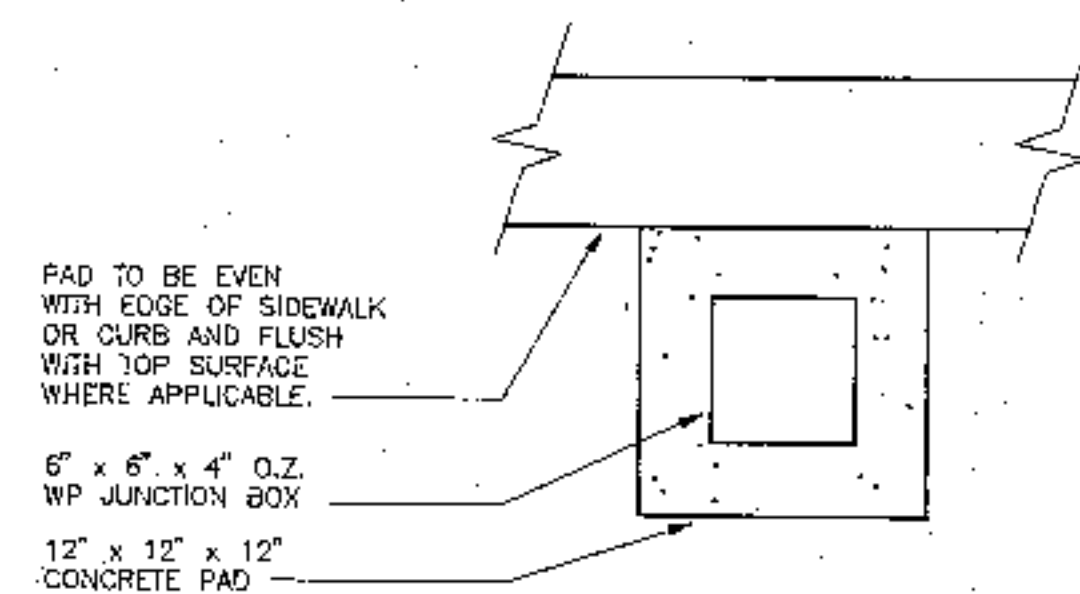


PROJECT NO.
DRAWN
CHECKED
DATE 2-11

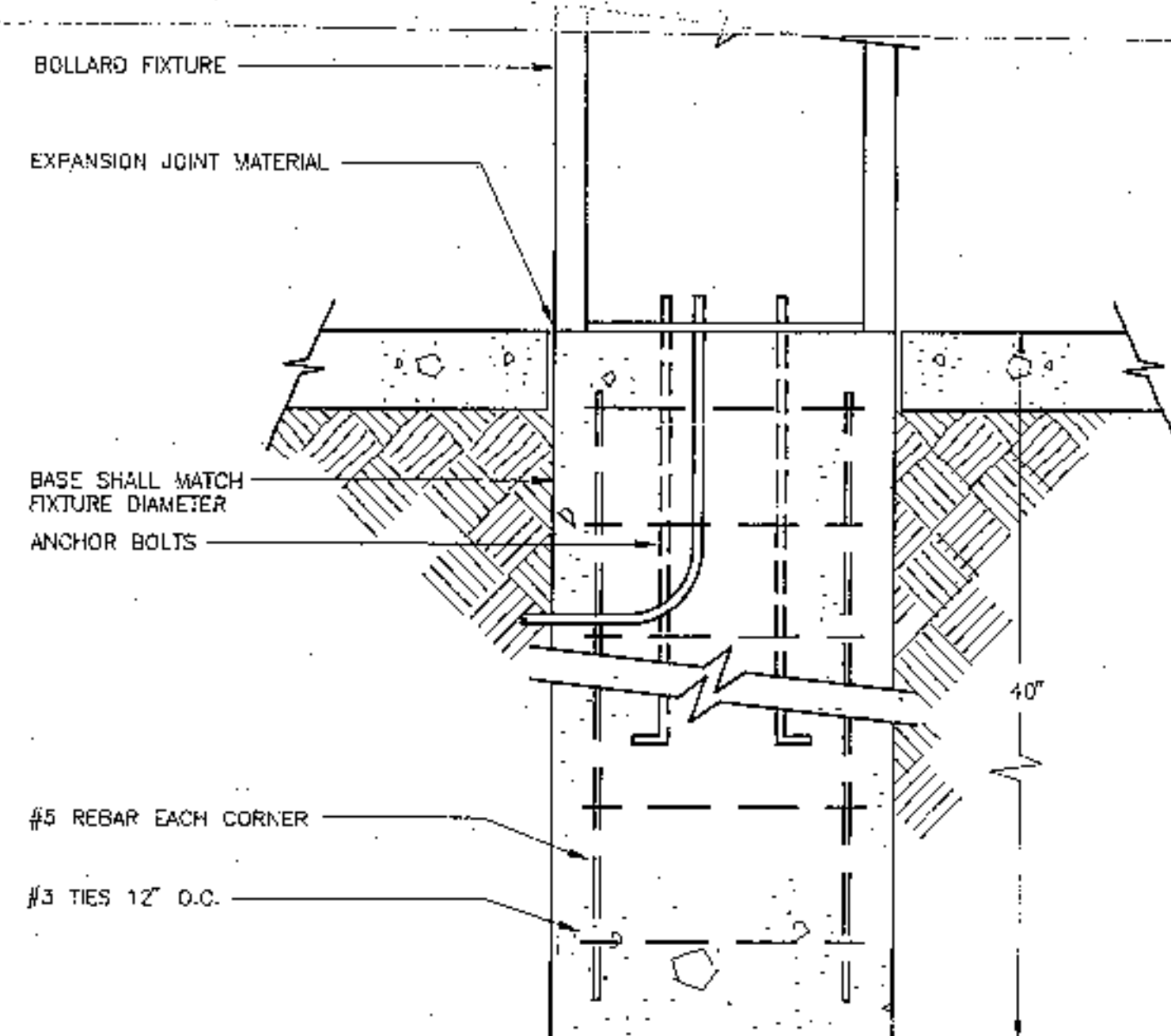
E-2

TAN BOYLE NEVAMOTO ARCHITECTS IN ASSOCIATION WITH KIRKWOOD ARCHITECTS AND ASSOCIATES
SUITE 715 SOUTH 9 WASHINGTON
SPOKANE, WASHINGTON 99201
(509) 838-7474

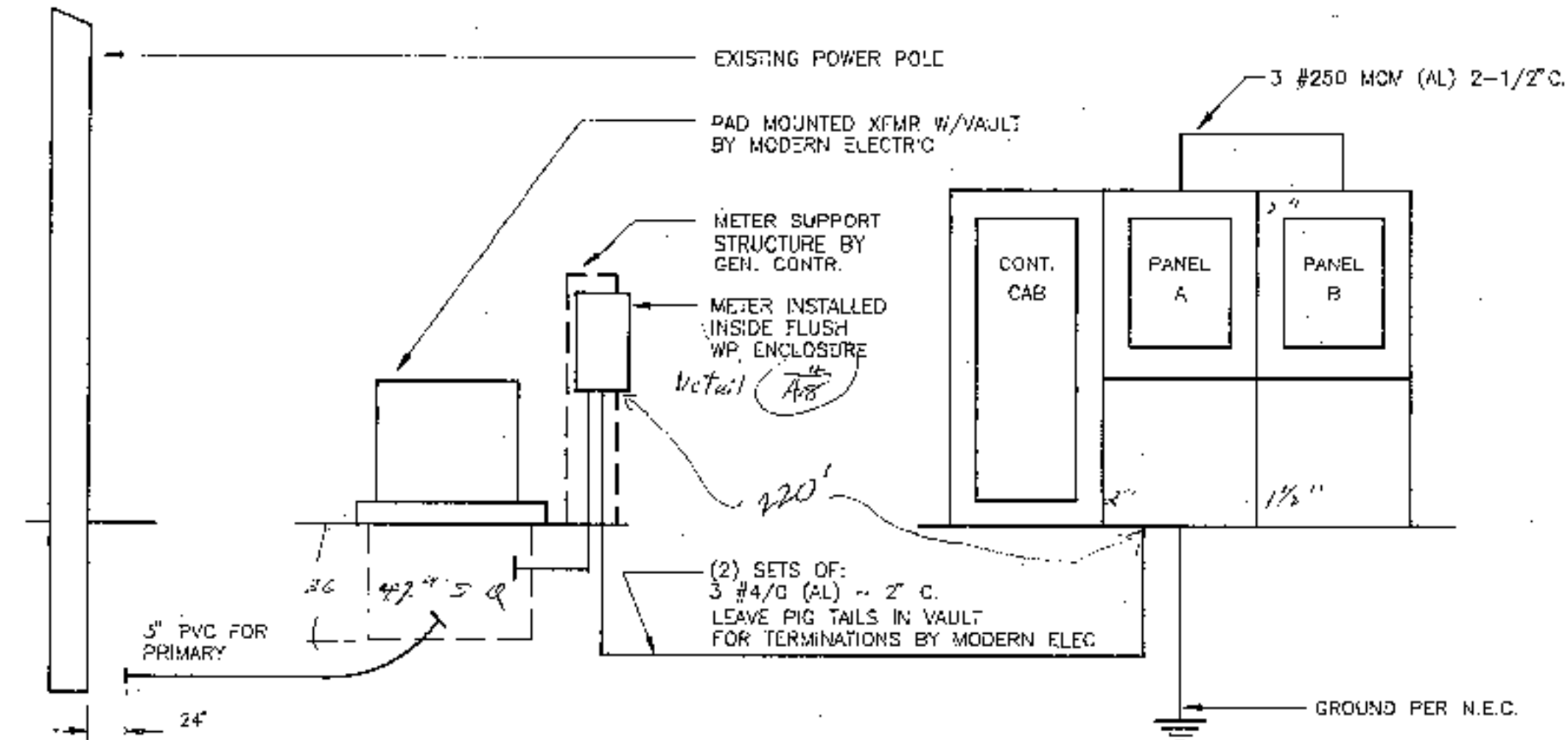




FLUSH J-BOX
NOT TO SCALE



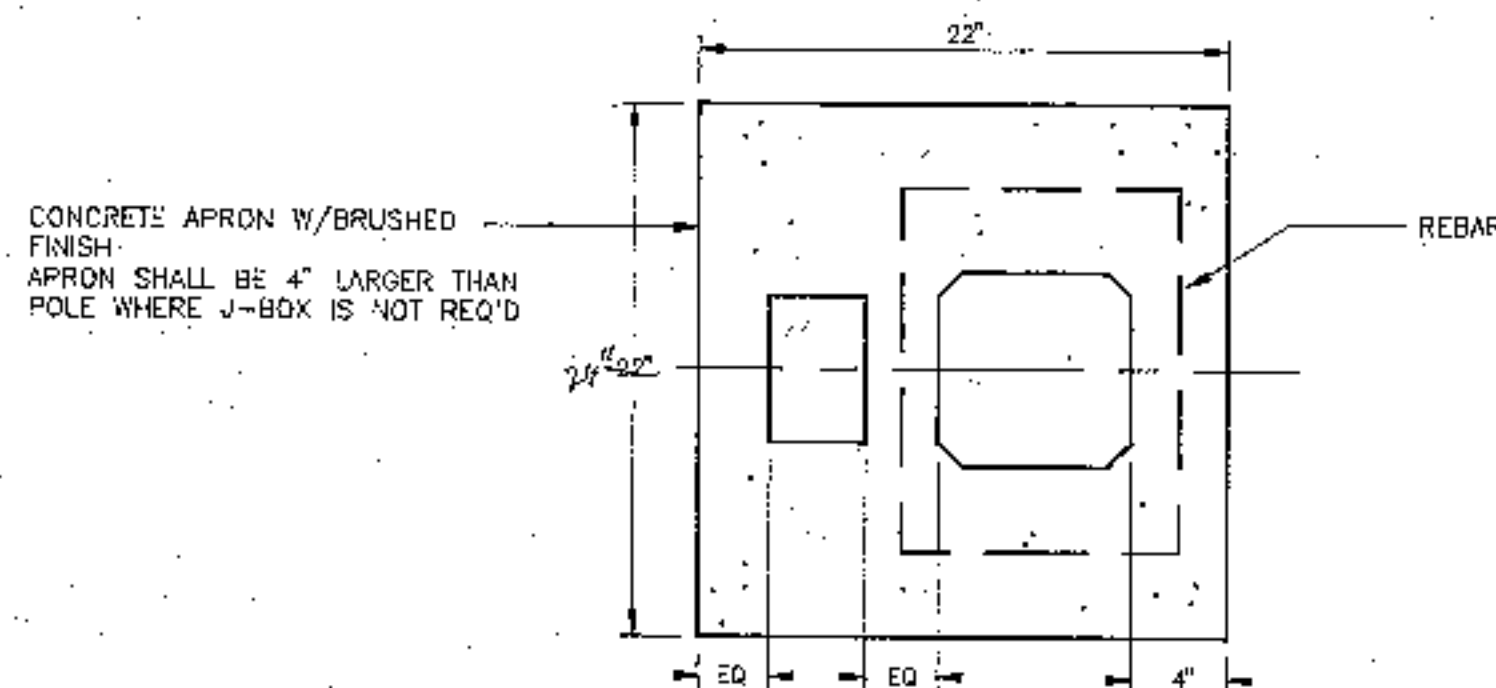
POLE BASE DETAIL
NOT TO SCALE TYPE #5



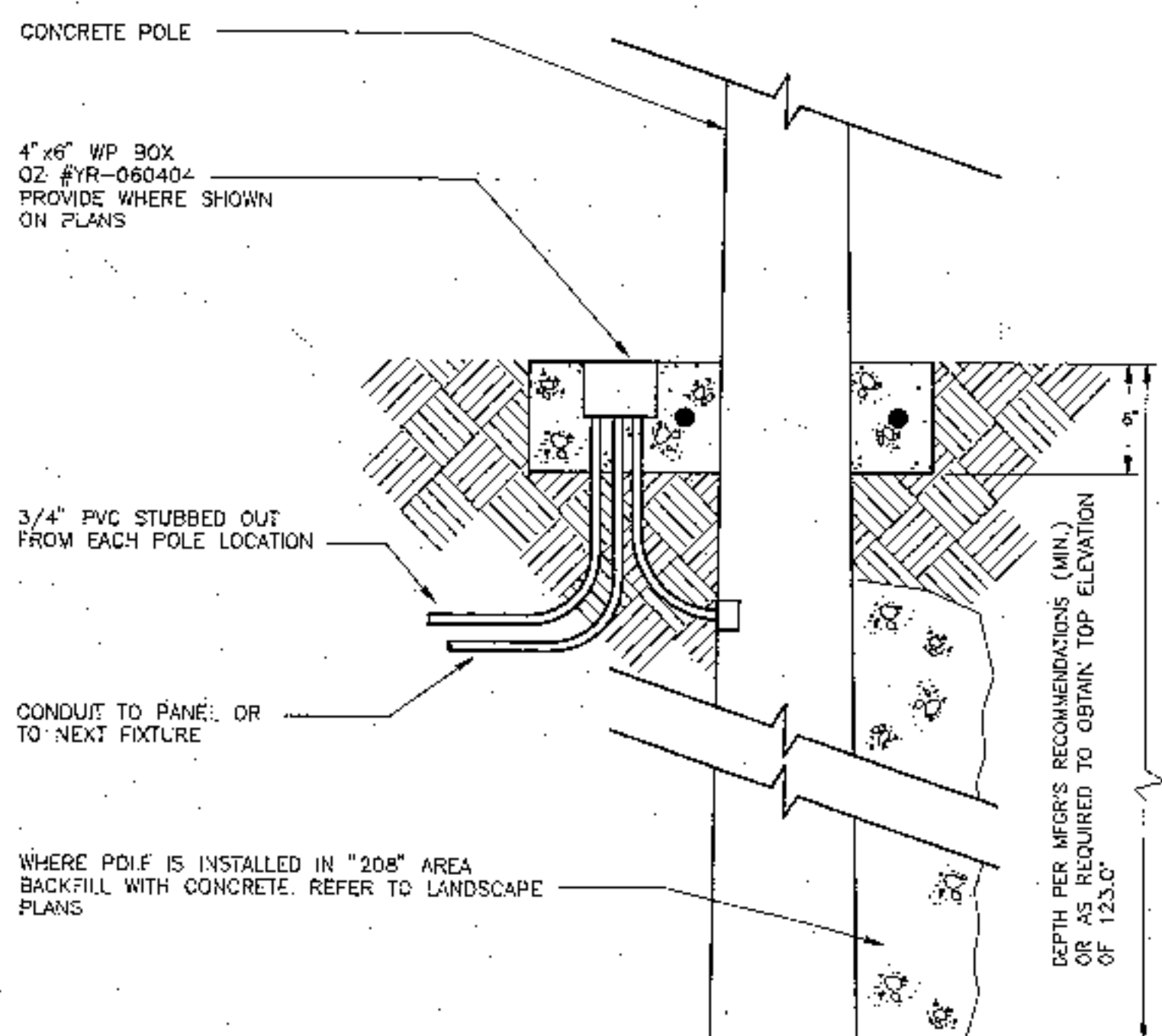
LOAD DATA

SERVICE CAPACITY	86.6 KW	361 AMPS
TOTAL CONNECTED LOAD	86.6 KW	286 AMPS
SPARE CAPACITY	18.0 KW	75 AMPS

POWER RISER DIAGRAM
NOT TO SCALE

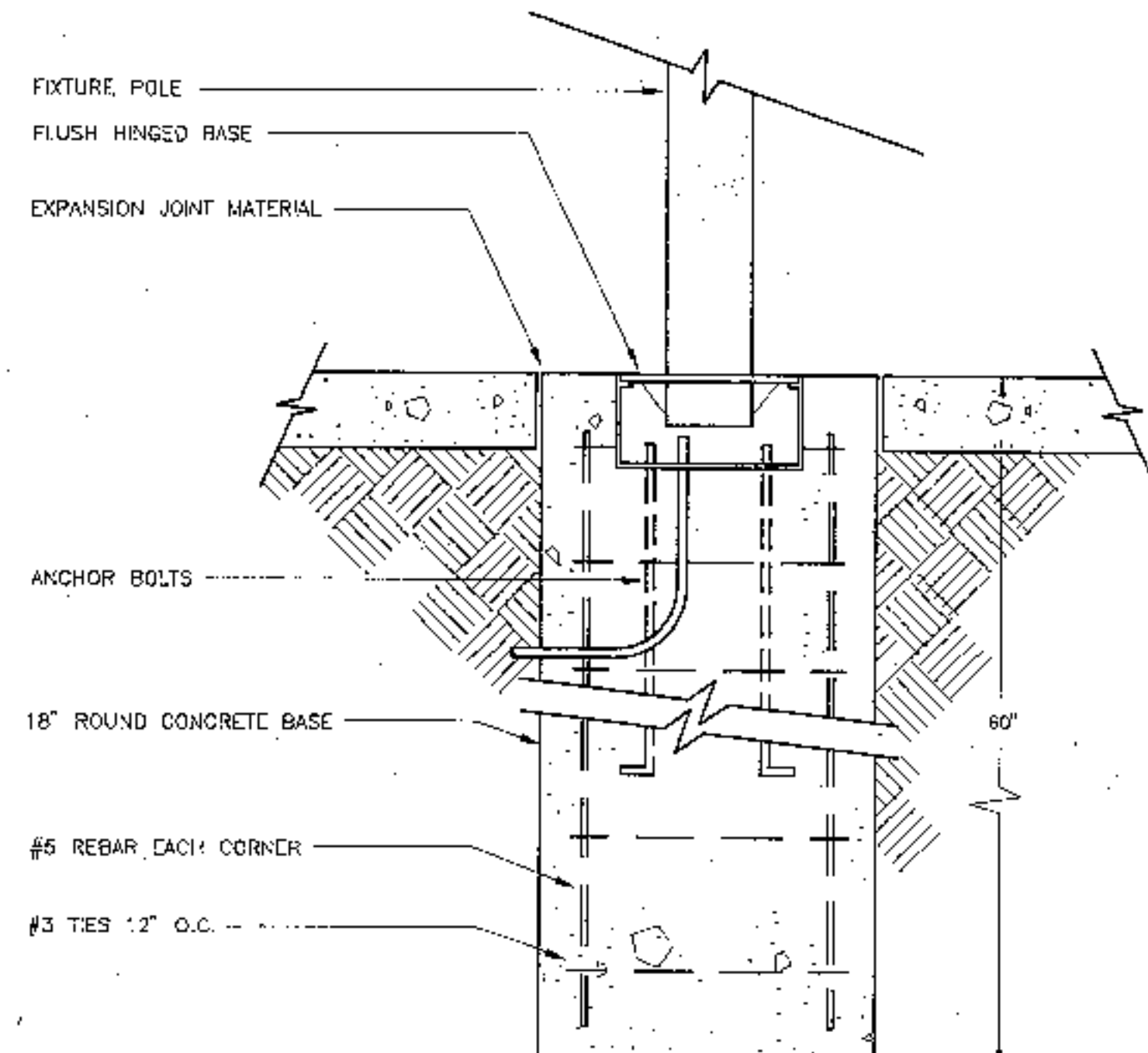


PLAN

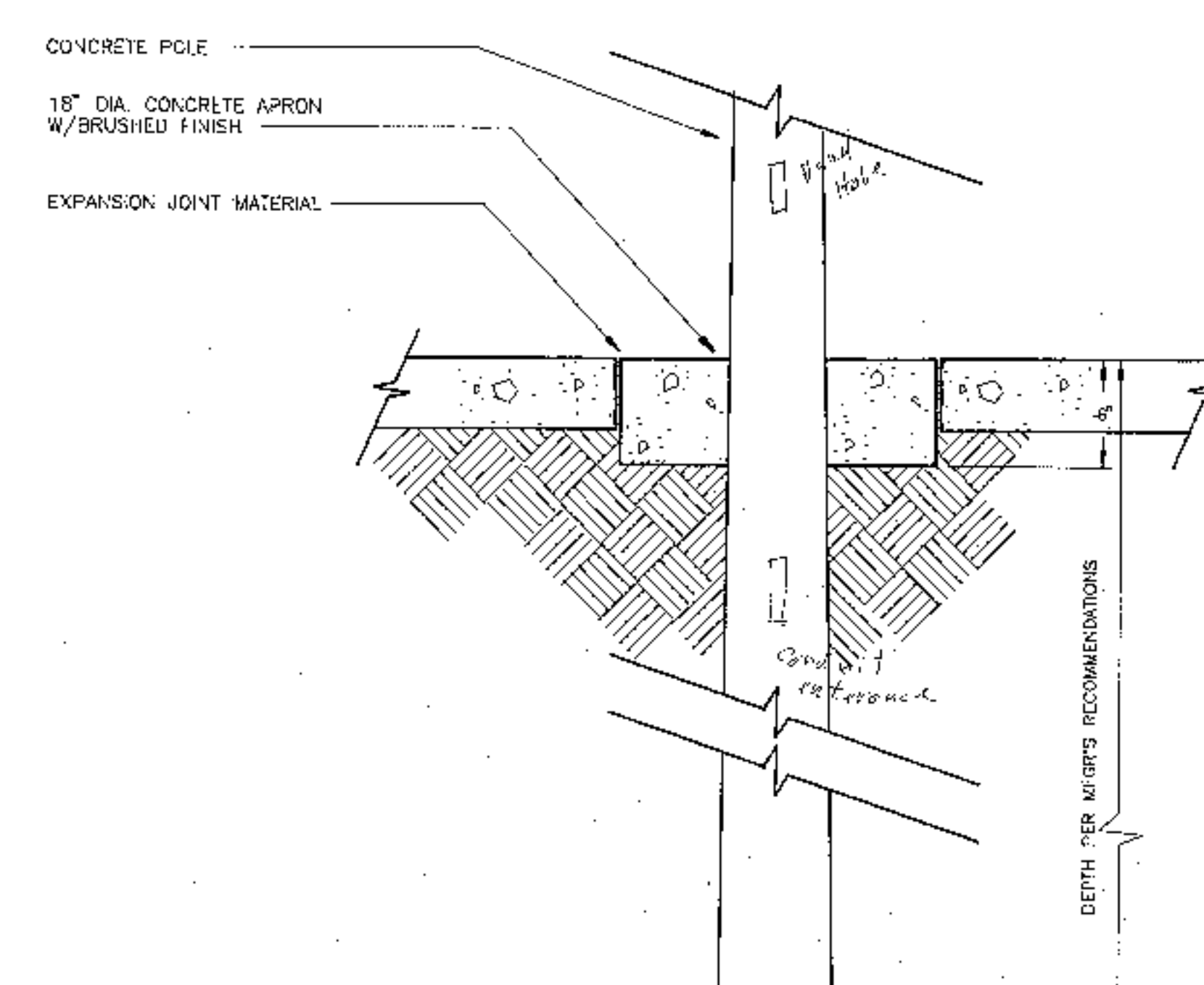


SECTION

POLE BASE DETAIL
NOT TO SCALE TYPES #2 & #3



POLE BASE DETAIL
NOT TO SCALE TYPE #10



SECTION

POLE BASE DETAIL
NOT TO SCALE TYPE #4

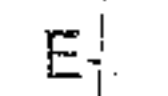


TAN BOYLE HEYAMOTO ARCHITECTS IN ASSOCIATION WITH KIRKWOOD ARCHITECTS AND ASSOCIATES
NORTH 117 1/2 HOWARD STREET
SPokane, Washington 99201

SPokane TRANSIT AUTHORITY
VALLEY TRANSIT CENTER



PROJECT NO.
DRAWN GJS
CHECKED
DATE 9/16



SPOKANE TRANSIT AUTHORITY

HVAC Replacement for STA

Valley Transit Center

4TH Avenue & University Road
City of Spokane Valley, WA 99206
Project No. 12-STA-454

ARCHITECT
CORTNER ARCHITECTURAL COMPANY
1903 W. 3RD. AVENUE
SPOKANE, WA 99201
509-363 1039 (PHONE)
509-624 4486 (FAX)

MECHANICAL ENGINEERING
L&S ENGINEERING
216 WEST PACIFIC AVENUE SUITE 211
SPOKANE WA 99201
509-2179 (PHONE)

ELECTRICAL ENGINEERING
L&S ENGINEERING
216 WEST PACIFIC AVENUE SUITE 211
SPOKANE WA 99201
509-2179 (PHONE)

Architectural Abbreviations

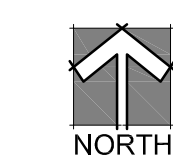
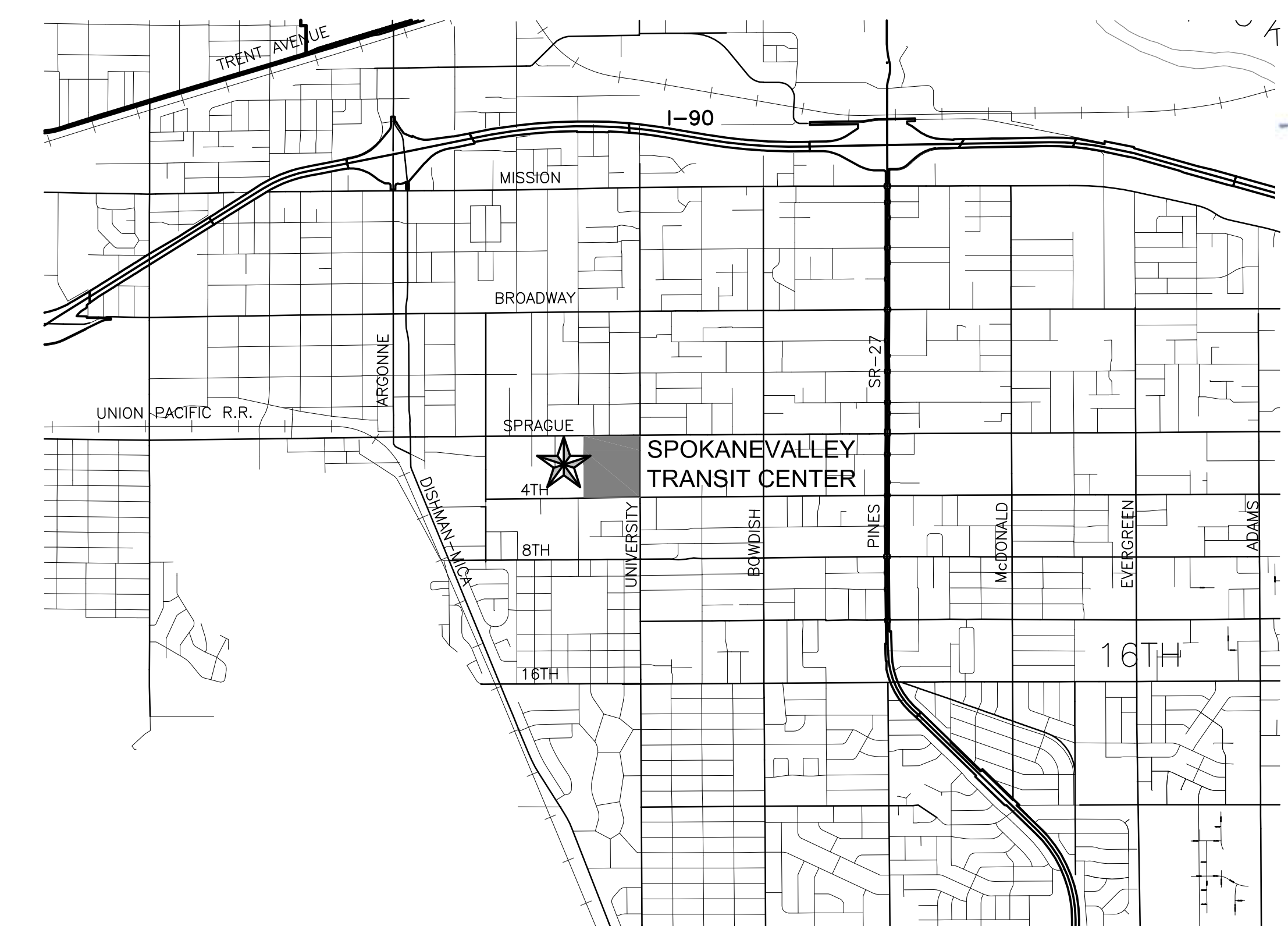
AB	anchor bolt	EA	each	JAN	janitor	REQD	required
A/C	air conditioning	EJ	expansion joint	JST	joist	RESIL	resilient
ACST	acoustic	EL	elevation	JT	joint	RF	roof
ADJ	adjustable, adjacent	ELEC	electrical	L	length, long	RM	room
AFF	above finished floor	ELEV	elevator, elevation	LAM	laminated	RO	rough opening
AGGR	aggregate	EM	entry mat	LMS	liquid marking surface	RT	right
AL	aluminum	EMB	enamelized marking board	LP	low point	RWL	rain water leader
ALT	alternate	EMER	emergency	LT	light, left	S	south
ANC	anchor(age)	ENCL	enclosure	LV	lower	SC	solid core
AND	and/or	EP	electrical panelboard	MACH	machine	SCD	seal cover dispenser
APPD	approved	EPS	extruded polystyrene	MAT(L)	material	SCHED	schedule
APPROX	approximate	EPXY	epoxy	MAX	maximum	SD	siding
ARCH	architectural	EQ	equipment	MBR	member	SECT	section
ASPH	asphalt	EQUIP	equipment	MECH	mechanical	SFTWD	softwood
ATC	acoustical tile ceiling	EWC	electric water cooler	MED	medium	SHT	sheet
BD	board	EXC	excavate	MEMB	membrane	SHTG	sheeting
BET	between	EXH	exhaust	MEZZ	mezzanine	SIM	similar
BTUM	blumens	EXIST	existing	MFR	manufacturer	SND	sanitary napkin dispenser
BLDG	building	EXP	expansion	MIR	mirror	SNR	sanitary napkin receptacle
BLKG	blocking	EXPO	exposed	MISC	miscellaneous	SPEC	specification
BN	beam	EXT	exterior	MT(D)	metal	SQ	square
BOTT	bottom	FAB	fabricate	MUL	mullion	SSK	service sink
BRG	bearing	FD	floor drain	N	north	STD	standard
BSMT	basement	FDN	foundation	NAT	natural	STL	steel
BUR	built up roof	FE	fire extinguisher	NB	not in contract	STRUC	structural
CAB	cabinet	FEC	fire extinguisher cabinet	NO	number	SUB	substitute
CB	catch basin, chalkboard	FF	factory finish	NOM	nominal	SURF	surface
CER	ceramic	FFL	finished floor line	NTS	not to scale	SUSP	suspended
CG	corner guard	FIN	finish	OA	over-all	SYM	symmetrical
CI	cast iron	FL	floor	OBS	obscure	SYS	system
CIP	cast in place concrete	FLASH	flashing	OC	on center	T	tile, tread
CJ	control joint	FLG	flooring	OD	outside diameter (dim.)	TB	towel bar, tackboard
CLG	ceiling	FLOOR	fluorescent	OH	overhead	TC	top of curb
CLKG	ceiling	FOC	face of concrete	OHG	overhead door	TEL	telephone
CLO	closet	FOF	face of finish	OPNG	opening	TEMP	temporary
CLG	ceiling	FOM	face of masonry	OPP	opposite	TERR	terrazzo
CLR	clear	FOS	face of sheathing	ORIG	original	TF	top of footing
CMU	concrete masonry unit	FRM	framing	OS	outside	THRU	through
COL	column	F.R.	fall restraint	PC	pre-cast	TPD	toilet paper dispenser
COMP	composition	FT	foot, feet	PERF	perforated	TS	tube steel
CONC	concrete	FTG	footing	PLAM	plastic laminate	TV	television
CONN	connection	FURR	furring	PL	plate	TVB	television bracket
CONST	construction	GUT	future	PLYWD	plywood	TW	top of wall
CONT	continuous	GA	gauge	PLAS	plaster	TYP	typical
CONTR	contractor	GB	grab bar	PLUMB	plumbing	UNFIN	unfinished
CORR	corridor	GEN	general	PNL	panel	UR	unless noted otherwise
CPT	carpet	GL	glaze (glazing)	POS	positive	VB	vapor barrier
CR	color	GLB	glue laminated beam	PR	pair	VCT	vinyl composition tile
CT	ceramic tile	GMU	glazed masonry unit	PREFAB	prefabricate(d)	VENT	ventilate
CTR	center	GND	ground	PREFIN	prefinish(ed)	VER	verify
CW	casework	GR	grade	PROJ	project	VERT	vertical
D, DEP	deep, depth	GYP BD	gypsum board	PT	point, paint	VEST	vestibule
DBL	double	H	high	PTD	paper towel dispenser	VOL	volume
DEMO	demolish, demolition	HB	hose bib	PTDR	combination paper towel dispenser & receptacle	VTR	vent thru roof
DET	detail	HC	hollow core	PTN	partition	W	west, wide, width
DF	drinking fountain	HD	head	PTR	paper towel receptacle	W/	with
DIA	diameter	HDW	hardware	PVMT	pavement	WC	water closet
DIA	diagonal	HORIZ	horizontal	QT	quarry tile	W	wood
DIM	dimension	HP	high point	R	riser, radius	WDW	window
DISP	disposal	HT	height	RD	roof drain	W/O	without
DIV	division	HTG	heating	RDO	roof drain, overflow	WP	waterproof
DN	down	HVAC	heating/ventilating/air-conditioning	REBAR	reinforcing bar	WSCT	waistcoat
DN	down	HWH(T)	hot water heater (tank)	REC'D	received	WS	weather stripping
DR(S)	dampproof(ing)	ID	inside diameter (dim.)	REF	reference	WT	weight
DS	downspout	INCL	include	REFL	reflected	WTR	water
DSP	dry standpipe	INFO	information	REFR	refrigerator	WWF	welded wire fabric
DWG	drawing	INSUL	insulation	REINF	reinforce(d)(ing)		
DWR	drower	INT	interior				

Sheet Index

G0.1	COVER SHEET
A1.0	FLOOR PLAN - REFLECTED CEILING - ELEVATION - INTERIOR ELEVATION PHOTOS
A2.0	DETAILS - WALL SECTION
M1.00	FLOOR PLAN DEMOLITION - FLOOR PLAN MECHANICAL
E1.00	FLOOR PLAN DEMOLITION - FLOOR PLAN ELECTRICAL

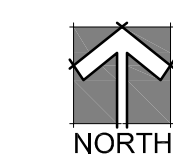
General Notes

- CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL HEALTH AND SAFETY STANDARDS FOR THE DURATION OF CONSTRUCTION.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO THE COMMENCEMENT OF WORK. THE ARCHITECT IS TO BE NOTIFIED IMMEDIATELY OF ANY ERRORS, INCONSISTENCIES OR OMISSIONS ON THE PLANS OR SPECIFICATIONS PRIOR TO COMMENCEMENT OF WORK IN THE EFFECTED WORK. WHERE CONFLICTS AND OMISSIONS HAVE NOT BEEN BROUGHT TO ARCHITECT'S ATTENTION, IT IS UNDERSTOOD THE CONTRACTOR HAS FIGURED THE MOST COSTLY METHOD OR METHODS.
- CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION AND SHALL MAINTAIN THE BUILDING'S STRUCTURAL INTEGRITY THROUGHOUT ALL STAGES OF CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL TRADES, INCLUDING THOSE ITEMS SUPPLIED BY THE OWNER (IF ANY).
- ALL EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS; DETAILED DRAWINGS TAKE PRECEDENCE OVER GENERAL DRAWINGS. DO NOT SCALE DRAWINGS TO DETERMINE LOCATIONS.
- IN GENERAL, REPETITIVE FEATURES ARE SHOWN IN FULL ONLY ONCE. REPETITIONS NOT FULLY NOTED ON THE DRAWINGS SHALL BE COMPLETELY FURNISHED AND INSTALLED AS IF NOTED IN FULL. DETAILS WHICH OCCUR BOTH RIGHT AND OPPOSITE HAND ARE SHOWN ONLY ONCE.
- MECHANICAL AND ELECTRICAL INFORMATION SHOWN ON ARCHITECTURAL DRAWINGS IS PROVIDED FOR CLARITY AND/OR GENERAL LOCATING PURPOSES ONLY.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR PATCHING ALL HOLES OR DAMAGE ENCOUNTERED IN WORK DONE BY HIMSELF OR ANY OTHER TRADE OR CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND REPLACE OR REMEDY ANY FAULTY, IMPROPER OR INFERIOR MATERIALS OR WORKMANSHIP WHICH SHALL APPEAR WITHIN ONE (1) YEAR AFTER COMPLETION AND ACCEPTANCE OF THE WORK UNDER THIS CONTRACT.
- CONTRACTOR TO COORDINATE ALL UTILITY DISRUPTIONS WITH PROJECT MANAGER AND PROVIDE 72 HOUR MIN. ADVANCED NOTICE.
- CONTRACTOR TO COORDINATE WITH PROJECT MANAGER WHERE IT IS BEST TO ACCESS SITE & LOCATE EQUIPMENT FOR DEMO & NEW WORK.
- ALL WORK, WHEN COMPLETED, IS TO MEET CURRENT ELECTRICAL & MECHANICAL CODES.
- ALL DEMOLISHED ITEMS ARE TO BECOME CONTRACTOR SALVAGE, REMOVED & PROPERLY DISPOSED OF OFFSITE, UNLESS NOTED OTHERWISE.
- PROTECT ALL WORK AND KEEP BUILDING "IN THE DRY" AT ALL TIMES INCLUDING NIGHTS & WEEKENDS.
- STA IS A 24 HOURS A DAY, 7 DAYS A WEEK, 365 DAYS A YEAR OPERATION. THERE IS NO "DOWN TIME", ONLY LESS BUSY THAN USUAL.



Vicinity Map
City of Spokane Valley, WA

SCALE: NOT TO SCALE



Aerial Photo
Spokane Valley Transit Center

SCALE: NOT TO SCALE

CORTNER
ARCHITECTURAL
COMPANY
CAC
1903 West 3rd Avenue
Spokane, WA 99201
(509) 363-1039 phone
(509) 624-4486 fax

2819 REGISTERED
ARCHITECT
Raymond F. Cortner
RAYMOND F. CORTNER
STATE OF WASHINGTON
1/22/2012

STAMP

Cover Sheet

HVAC Replacement
Spokane Valley Transit Center
4TH AVE. AND UNIVERSITY RD.
SPOKANE VALLEY, WA

SHEET DESCRIPTION

PRODUCT NAME & ADDRESS

CLIENT INFORMATION

APPROVED

ISSUES & REVISIONS

Description	Date
95% Review Set	08-13-2012
CONSTRUCTION SET	08-25-2012

PROJ. NO. 12-STA-454

SCALE EV

DRAWN BY RC

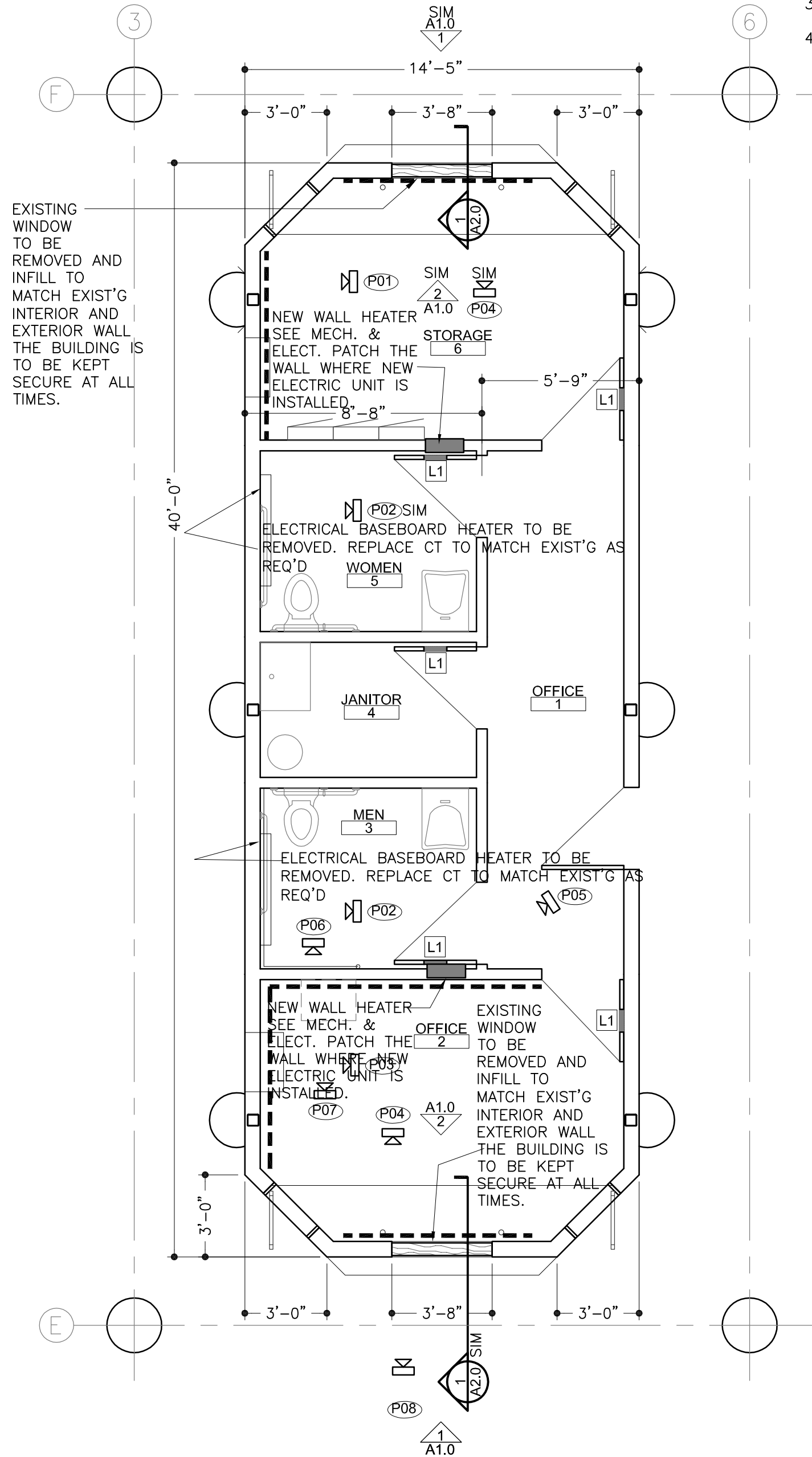
CHECKED BY

DATE DRAWN 09/25/2012

SHEET G0.1

GENERAL DEMO NOTES:

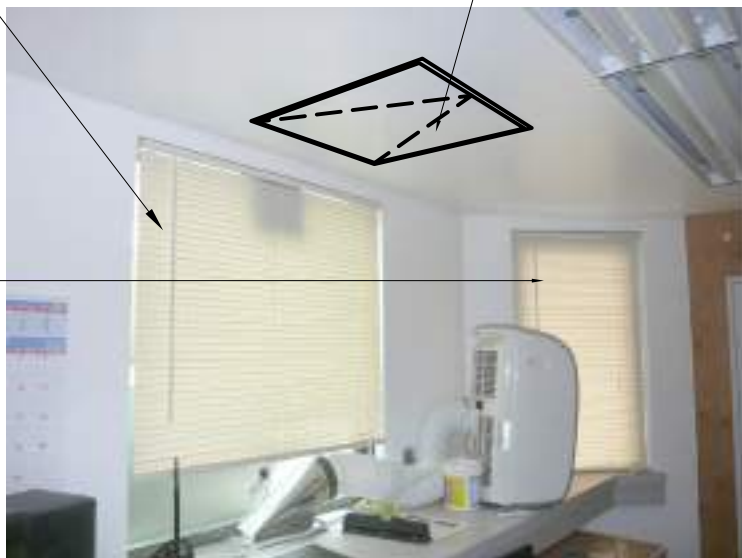
1. CONTRACTOR TO REMOVE EXISTING 48"x43" WINDOWS (2) AND INFILL OPENING TO MATCH EXISTING INTERIOR AND EXTERIOR WALLS.
2. CONTRACTOR TO REMOVE EXISTING ACCESS PANELS
3. CONTRACTOR TO PROPERLY DISPOSE OF DEMOLISHED MATERIALS OFF-SITE, U.N.O
4. NEW ROOF PENETRATION BUILT-UP MUST BE REPAIRED BY CERTIFY ROOFING CONTRACTOR



1 Floor Plan
SCALE: 1/4" = 1'-0"

0' 2' 4'
GRAPHIC SCALE

EXISTING ACCESS PANEL TO BE REMOVED. CONTRACTOR TO INFILL HOLE WITH NEW GYPSUM BOARD. PREPARE CLG TO ALLOW NEW ACCESS PANEL. SEE REFLECTED CLG PLANS FOR LOCATION. CONTRACTOR TO RE-PAINT CLG. TYP FOR ROOMS 2 (OFFICE) & 6 (STORAGE)



EXISTING GLASS & FRAME TO BE REMOVED AND INFILL TO MATCH EXISTING INTERIOR AND EXTERIOR

2 Interior Window
SCALE: 1/4" = 1'-0"

0' 2' 4'
GRAPHIC SCALE

EXISTING GLASS & FRAME TO BE REMOVED AND INFILL TO MATCH EXISTING INTERIOR AND EXTERIOR



10X10 NEW MOUNTED DOOR GRILLE, TYP FOR ALL INTERIOR DOORS, SEE MECH.



ELECTRICAL BASEBOARD HEATER TO BE REMOVED. REPLACE CT TO MATCH EXIST'G AS REQ'D



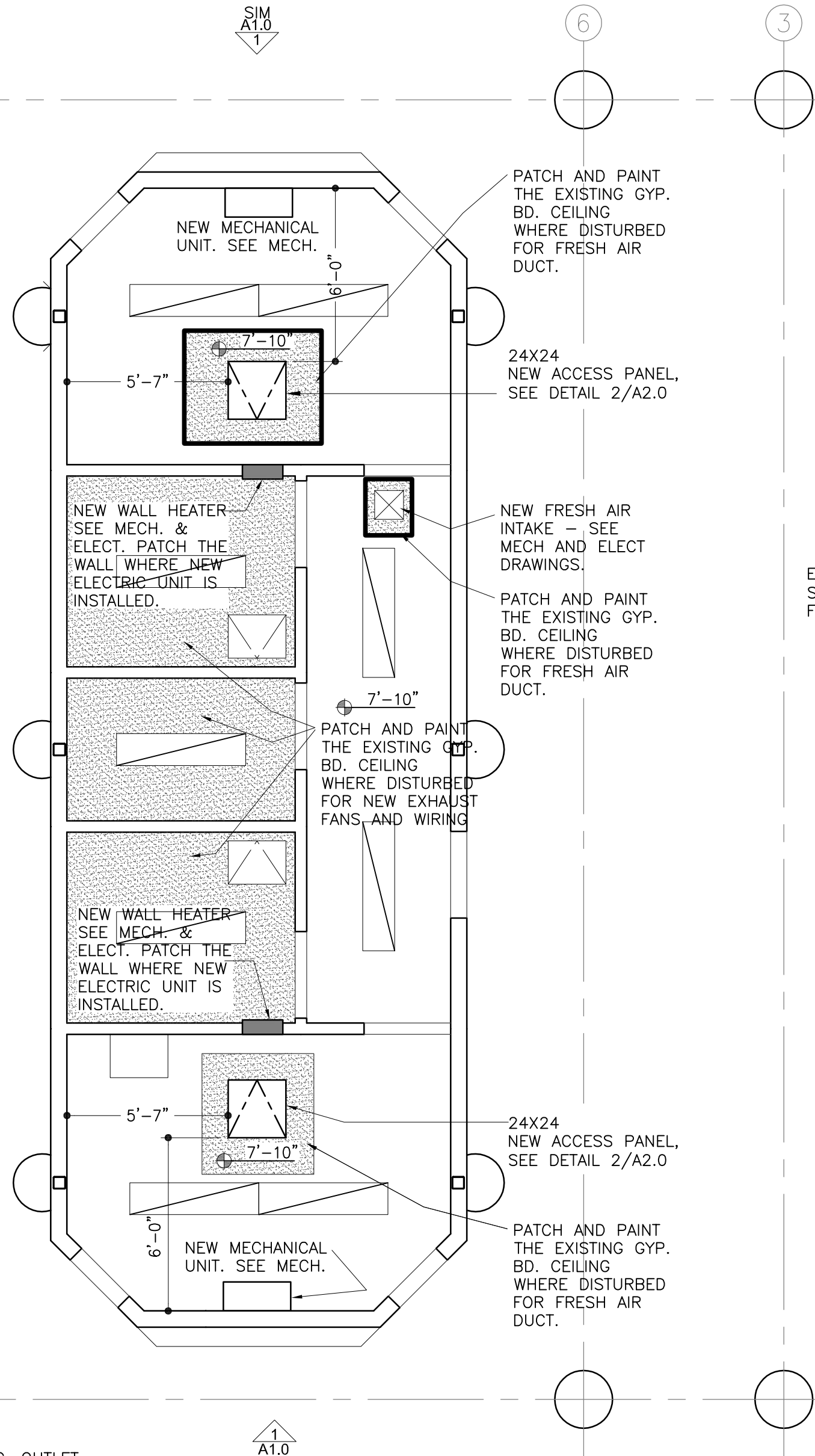
ELECTRICAL HEATER TO BE REMOVED. CONTRACTOR TO INFILL HOLE WITH NEW GYPSUM BOARD, PATCH AND PAINT WALL ENTIRELY TO MATCH EXISTING WALL



EXIST MECHANICAL UNIT TO BE REMOVED. PATCH AND PAINT WALL ENTIRELY TO MATCH EXISTING

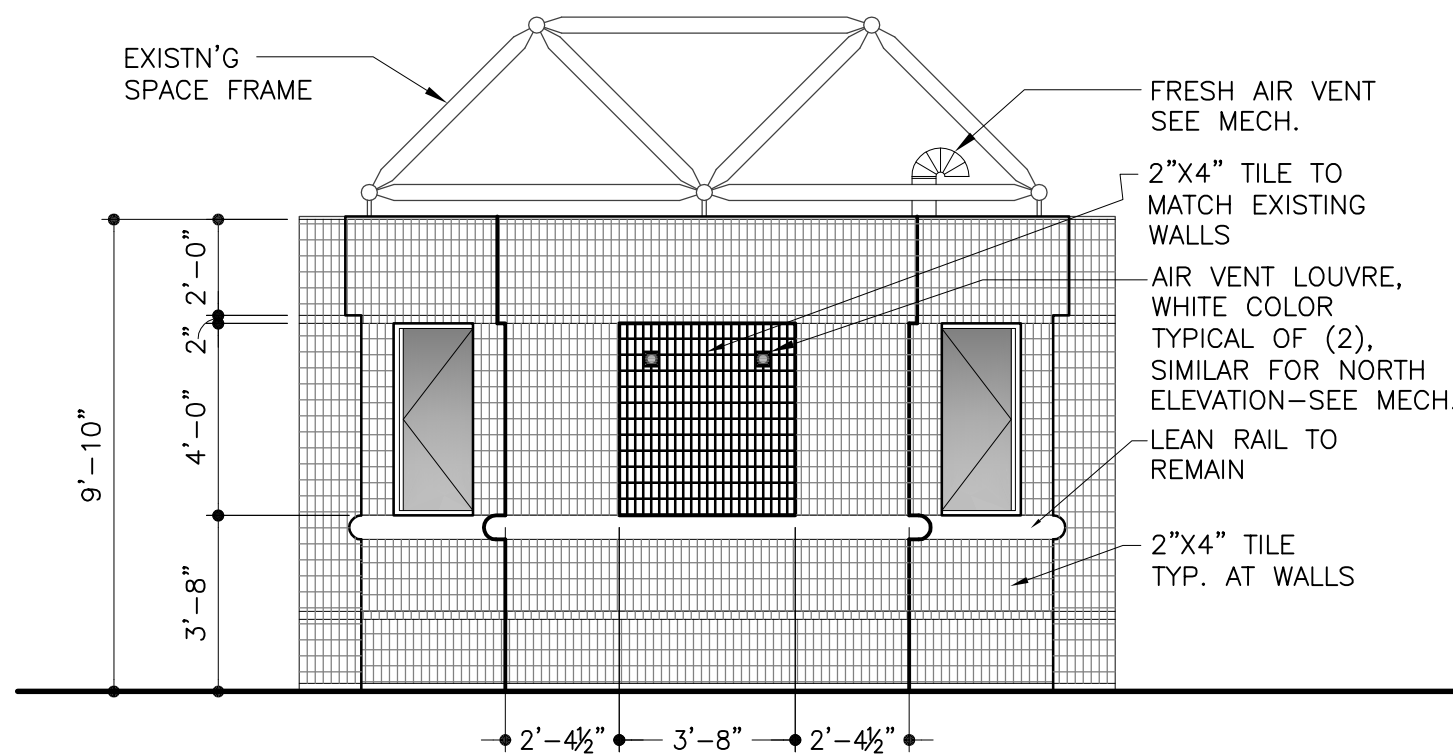


EXISTING GLASS AND FRAME TO BE REMOVED AND INFILL TO MATCH EXISTING EXTERIOR WALL, SEE DETAIL 1/A2.0 BUILDING TO BE MADE SECURE AT ALL TIMES.



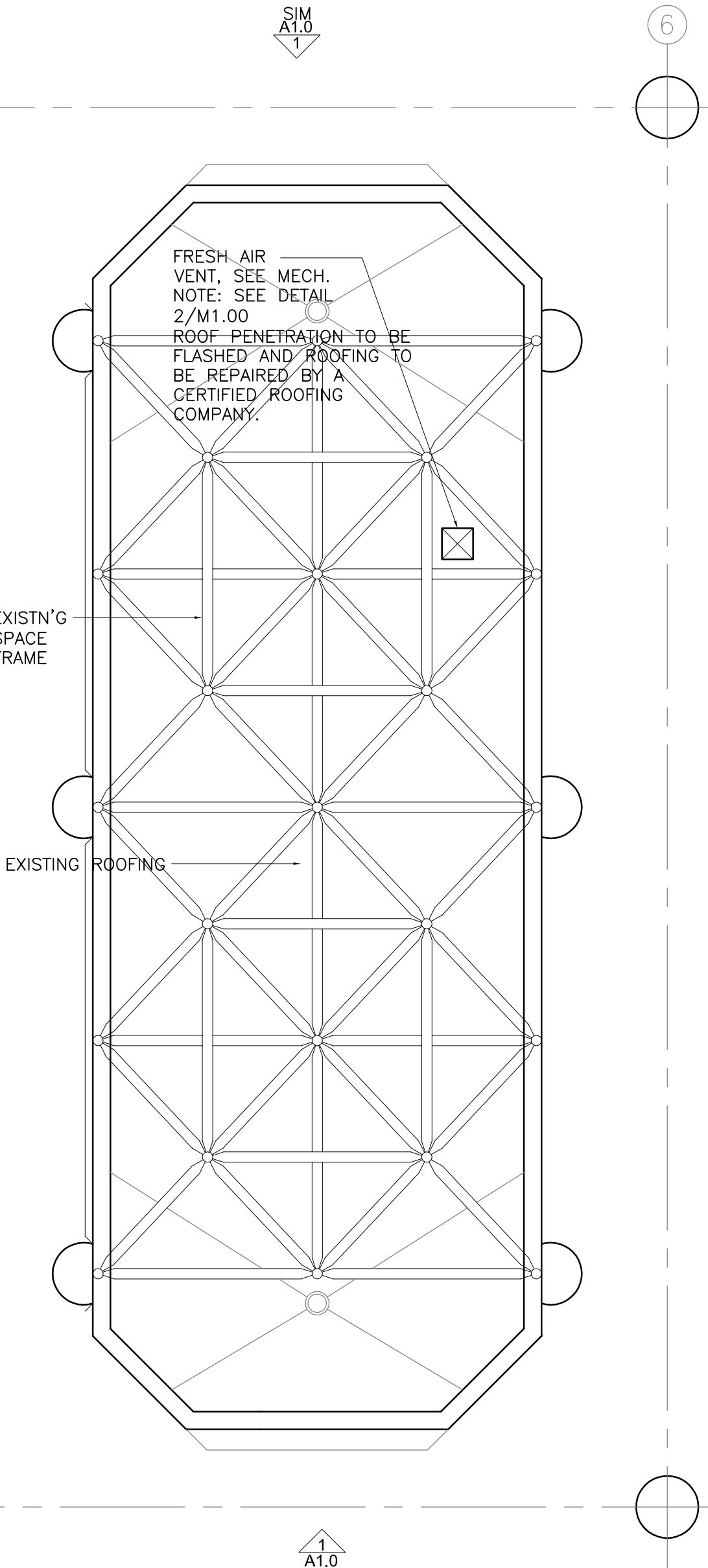
2 Reflected Ceiling Plan
SCALE: 1/4" = 1'-0"

0' 2' 4'
GRAPHIC SCALE



1 Exterior Window
SCALE: 1/4" = 1'-0"

0' 2' 4'
GRAPHIC SCALE



3 Roof Plan
SCALE: 1/4" = 1'-0"

0' 2' 4'
GRAPHIC SCALE

Symbol Legend

- LINE INDICATES WALL TO BE RE-PAINTED
- EXIST'G DOOR WITH NEW MOUNTED DOOR GRILLE
- PHOTO TAG. CAMERA ICON INDICATES LOCATION & DIRECTION OF PHOTO.
- EXIST'G 2X4 FLUORESCENT LIGHT FIXTURE
- HATCH INDICATES EXISTING CLG TO BE PATCHED AND RE-PAINTED
- SEE DETAIL 3/A2.0
- EXISTING 24"x18" ACCESS PANEL TO REMAIN

CORTNER ARCHITECTURAL COMPANY
CAC
1903 West 3rd Avenue
Spokane, WA 99201
(509) 363-1039 phone
(509) 624-4486 fax

2819 REGISTERED ARCHITECT
RAYMOND F. CORTNER
STATE OF WASHINGTON
1/25/2012

STAMP

Floor Plan- Reflected Ceiling
HVAC Replacement
Spokane Valley Transit Center
4TH AVE. AND UNIVERSITY RD.
SPOKANE VALLEY, WA

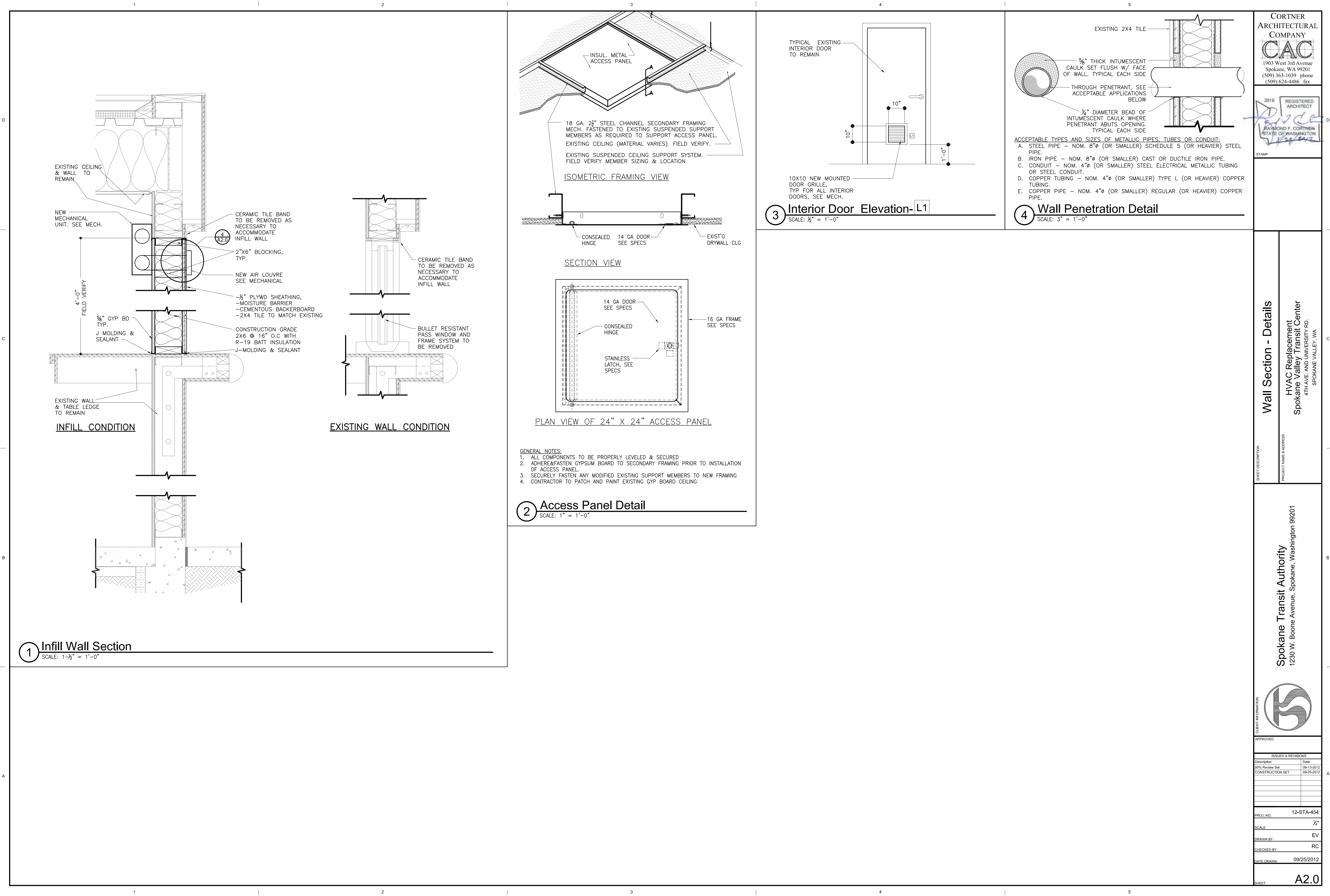
Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION
APPROVED

ISSUES & REVISIONS
Description Date
95% Review Set 08-13-2012
CONSTRUCTION SET 09-25-2012

PROJ. NO. 12-STA-454
SCALE 1/4"
DRAWN BY ASR/REV
CHECKED BY RC
DATE DRAWN 09/25/2012

SHEET A1.0



CORTNER ARCHITECTURAL COMPANY

CAC

1903 West 3rd Avenue
Spokane, WA 99201
(509) 363-1039 phone
(509) 624-4486 fax

2819

REGISTERED ARCHITECT

RAYMOND F. CORTNER
STATE OF WASHINGTON
1/25/2012

STAMP

Wall Section - Details

Spokane Transit Authority

1230 W. Boone Avenue, Spokane, Washington 99201

Spokane Valley Transit Center

4TH AVE. AND UNIVERSITY RD.
SPOKANE VALLEY, WA

CLIENT INFORMATION

APPROVED

ISSUES & REVISIONS

Description	Date
95% Review Set	08-13-2012
CONSTRUCTION SET	09-25-2012

PROJ. NO.

12-STA-454

SCALE

1/4"

DRAWN BY

EV

CHECKED BY

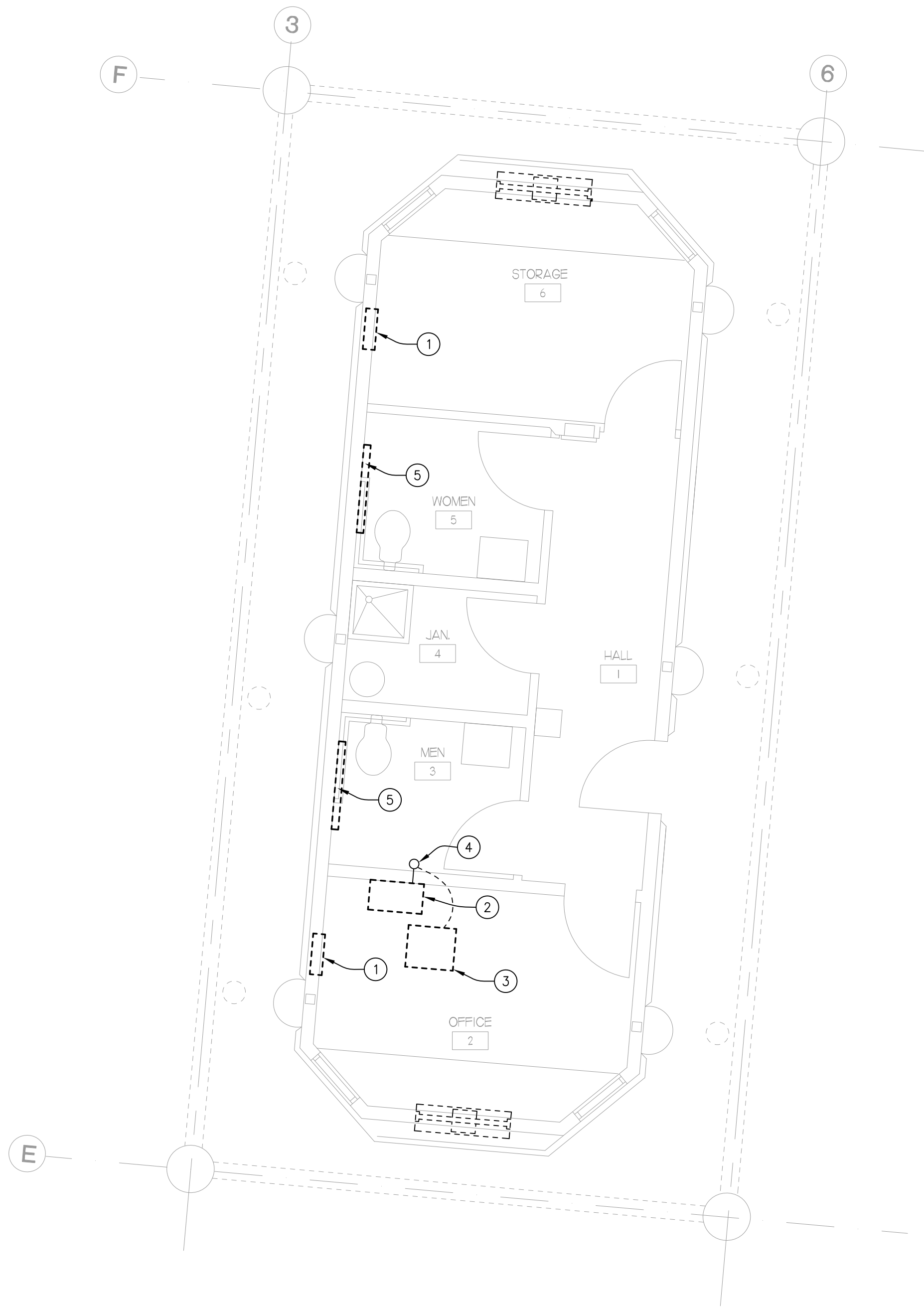
RC

DATE DRAWN

09/25/2012

SHEET

A2.0

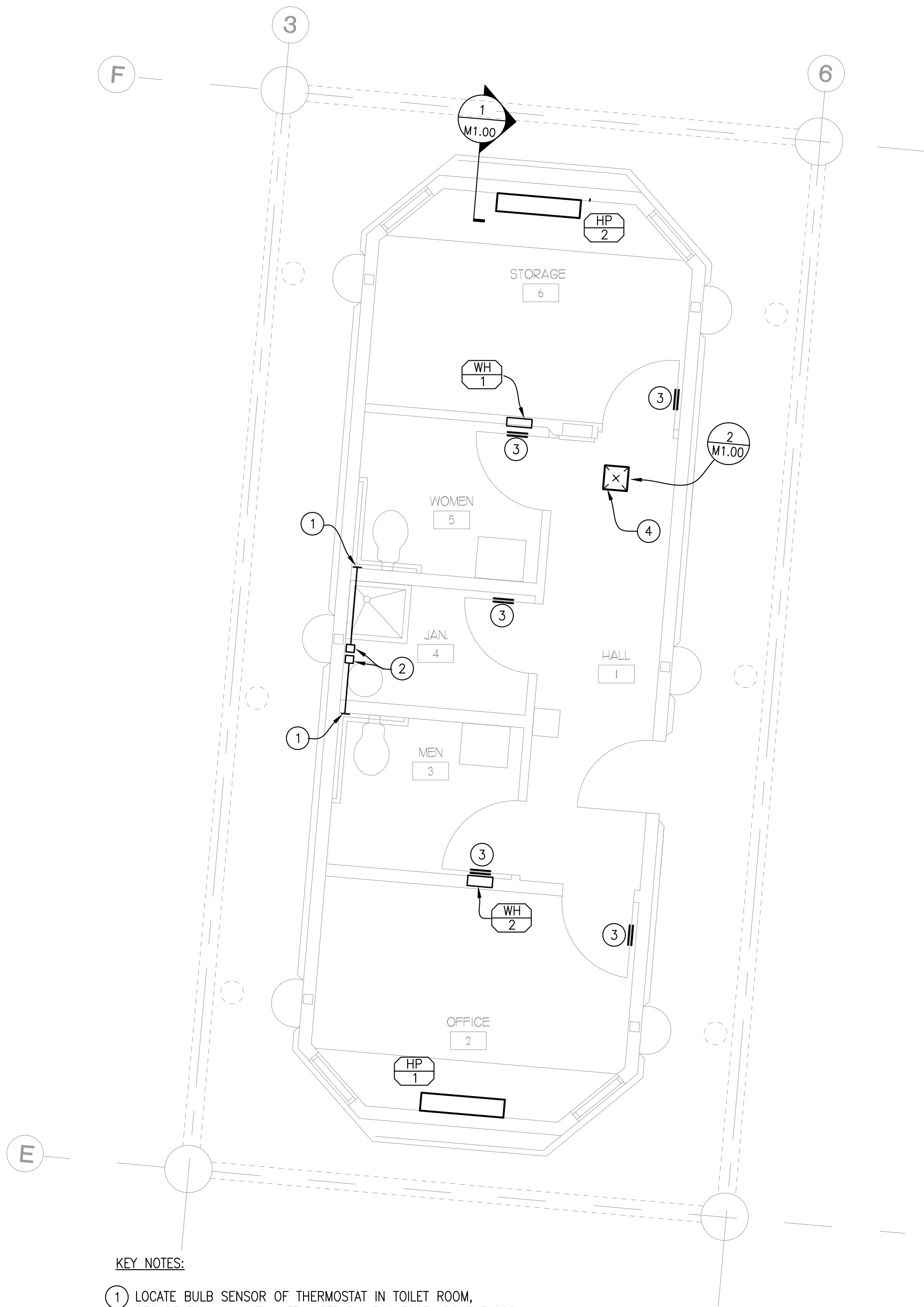


KEY NOTES:

- 1 REMOVE FLUSH MOUNTED ELECTRIC HEATER. FILL CAVITY WITH BATT INSULATION AND PATCH WALL SURFACE TO MATCH EXISTING SHEET ROCK WALL.
- 2 REMOVE WALL MOUNTED AIR CONDITIONING UNIT AND PATCH WALL AS NEEDED TO MATCH EXISTING.
- 3 REMOVE CONDENSING UNIT FROM ROOF.
- 4 REMOVE REFRIGERATION LINES AND CONTROL WIRING THROUGH ROOF TO WALL MOUNTED AIR-CONDITIONING UNIT. PATCH ROOF PENETRATION WATER TIGHT.
- 5 REMOVE ELECTRICAL BASEBOARD HEATER, PATCH WALL SURFACE TO MATCH EXISTING SHEET METAL WALL.



DESCRIPTION
Floor Plan - Mechanical Demolition
SCALE: 1/4" = 1'-0"



KEY NOTES:

- 1 LOCATE BULB SENSOR OF THERMOSTAT IN TOILET ROOM, SECURE TO WALL WITH METAL STRAP, AT 6 FOOT ABOVE FLOOR.
- 2 THERMOSTAT FOR TOILET ROOM WALL HEATER. JOHNSON CONTROLS MODEL A419 ABC-1C
- 3 PROVIDE DOOR GRILLE, TITUS MODEL CT-700L WITH AUXILIARY FRAME, 10"X10" MOUNTED 12" FROM BOTTOM DOOR.
- 4 FRESH AIR GRILLE WITH FILTER, TITUS MODEL 50FF, 12X12 SEE DETAIL #2 ON THIS SHEET



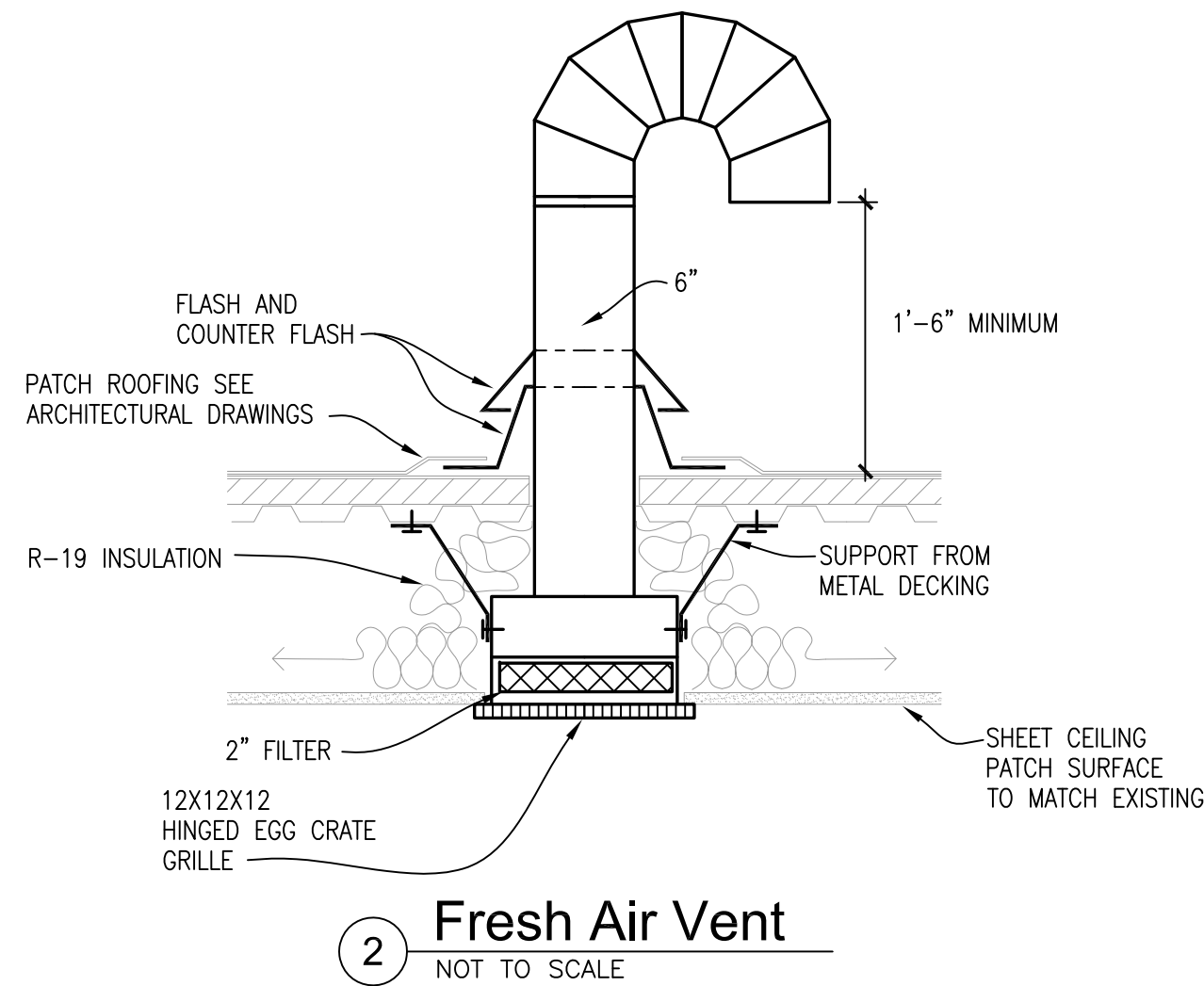
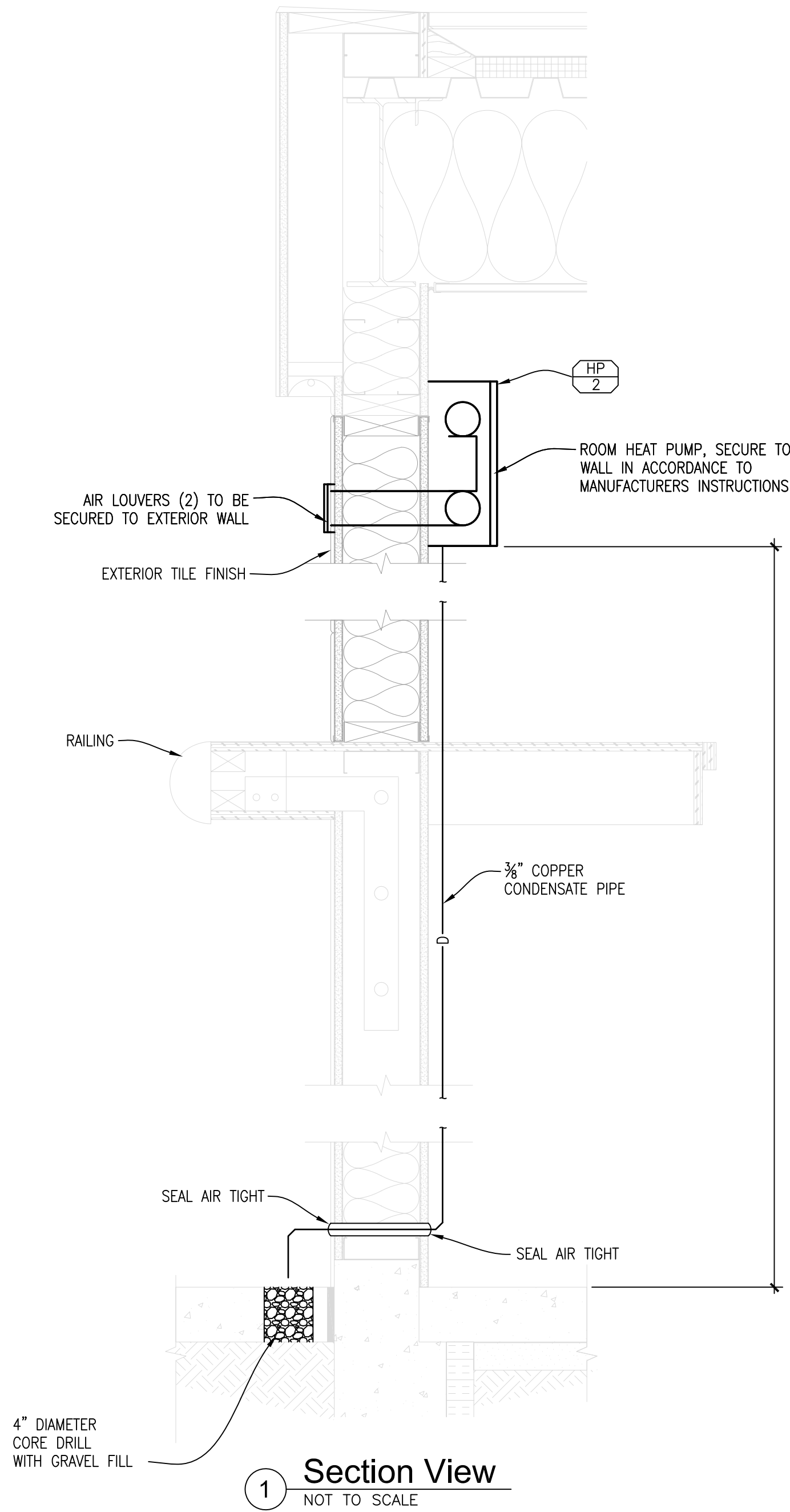
DESCRIPTION
Floor Plan - Mechanical
SCALE: 1/4" = 1'-0"

WALL MOUNTED ELECTRIC HEATER									
EQUIPMENT NUMBER	SERVICE	CFM	KW	ELECTRICAL			MOUNTING	NOTES	BASIS OF DESIGN
				VOLT	PAHSE	AMPS			
WH-1	MEN 3	50	1	240	1	4	FLUSH	1	BERCO, CRA2024-IF
WH-2	WOMEN 5	50	1	240	1	4	FLUSH	1	BERCO, CRA2024-IF

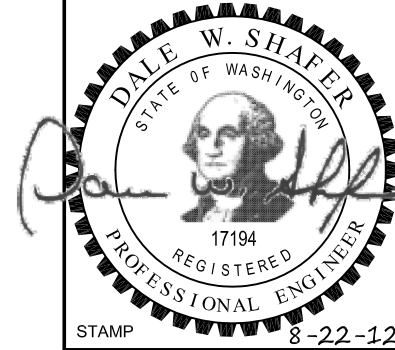
NOTES: 1. CONTROLLED BY THERMOSTAT MOUNTED IN JANITOR'S CLOSET WITH REMOTE SENSOR. PROVIDE PLUG TO REPLACE THERMOSTAT NOB ON HEATER. MOUNT HEATER AT 12 INCHES ABOVE FLOOR

EQUIPMENT NUMBER	SERVICE	COOLING					HEATING			FAN			OPERATING CURRENT	FILTER TYPE	APPROXIMATE WEIGHT	NOTES	BASIS OF DESIGN
		TOTAL COOLING (BTUH)	OUTSIDE AIR DB/WB (°F)	INSIDE AIR DB/WB (°F)	EER	REFRIGERANT TYPE	HP BTUH	OUTSIDE AIR DB/WB (°F)	SUPPLEMENTAL ELECTRIC HEAT, BTUH	TOTAL CFM	DRIVE	SPEED	VOLTS/PHASE				
HP-1	ROOM 2	9,300	90/75	80 / 67	10	R-410A	9,300	90/75	6,800	266	DIRECT	HIGH	208-230/1	13	WASHABLE	115	1, 2 CCOMFORT-AIRE, RPHE-093G
HP-2	ROOM 6	9,300	90/75	80/67	10	R-410A	9300	90/75	6,800	266	DIRECT	HIGH	208-230/1	13	WASHABLE	115	1, 2 CCOMFORT-AIRE, RPHE-093G

NOTES: 1. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. 2. SECURE OUTSIDE AIR GRILLES WITH SCREWS.



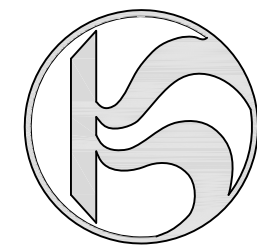
CORTNER ARCHITECTURAL COMPANY
CAC
1903 West 3rd Avenue
Spokane, WA 99201
(509) 363-1039 phone
(509) 624-4486 fax



VALLEY TRANSIT CENTER

HVAC Replacement
Spokane Valley Transit Center
4TH AVE. AND UNIVERSITY RD.
SPOKANE VALLEY, WA

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201



APPROVED

ISSUES & REVISIONS	
Description	Date
DISC Review Set	08-13-2012
CONSTRUCTION SET	08-28-2012

PROJ. NO. 12-STA-454
SCALE as drawn
DRAWN BY L&S
CHECKED BY DWS
DATE DRAWN 08/29/2012
SHEET **M1.00**

PANELBOARD SCHEDULE												
MAIN BREAKER: MLC MOUNTING SURFACE BRACING 1D 4X12						PANEL: B (EXISTING) 120/240V 1P 3W 275 AMP						
						TOTAL CALCULATED LOAD 31.46 KVA						
CIRCUIT						CIRCUIT						
NO.	DESCRIPTION	OCB	TYPE	LOAD (VA)	(A)	PH	LOAD (VA)	(A)	TYPE	OCB	DESCRIPTION	NO.
1	LITG W PKG LOT	2P-20A	C	1836	15.3	A	1836	15.3	C	2P-20A	LITG E PKG LOT	2
3			C	1836	15.3	B	1836	15.3	C			4
5	LITG NW WALKWAY	1P-20A	C	2160	18.0	A	2160	18.0	C	1P-20A	SIGN	8
7	LITG SW WALKWAY	1P-20A	C	2160	18.0	B	2160	18.0	C	1P-20A	SPARE	9
9	HEATING CABLE NORTH	1P-20A	C	1820	16.0	A	1820	16.0	C	1P-20A	LITG NE WALKWAY	10
11	HEATING CABLE NORTH	1P-20A	C	1820	16.0	B	1820	16.0	C	1P-20A	LITG SE WALKWAY	12
13	SPARE	1P-20A				A				1P-20A	SPARE	14
15	HEATING CABLE CENTER	1P-20A	C	1920	16.0	A	1920	16.0	C	1P-20A	HEATING CABLE SOUTH	16
17	SPARE	1P-20A				B				1P-20A	HEATING CABLE SOUTH	18
19	SPARE	1P-20A				A				1P-20A	HEATING CABLE SOUTH	20
21	SPARE	1P-20A				B				1P-20A	HEATING CABLE SOUTH	22
23	SPARE	1P-20A				A				1P-20A	CCTV UPS	24
25	SPARE	1P-20A				B	1200				SPARE	26
27	QUARTZ HEAT SOUTH SIDE	2P-20A	H	2000	16.7	A					SPARE	28
29			H	2000	16.7	B					SPARE	30
31	QUARTZ HEAT	2P-20A	H	2000	16.7	A					SPARE	32
33			H	2000	16.7	B					SPARE	34
35	QUARTZ HEAT	2P-20A	H	2000	16.7	A					SPARE	36
37			H	2000	16.7	B					SPARE	38
39	SECURITY CAMERAS SOUTH	1P-20A	C	240	2.0	A					SPARE	40
41	SECURITY CAMERAS SOUTH	1P-20A	C	240	2.0	B					SPARE	42
						LOAD CONNECTED CALCULATED						
						(Cont. loads): 15569 x 1.25 = 19461 VA						
						(Rec. 1st 10 kw): x 0.00 = VA						
						(Rec. 1st 10 kw): x 0.50 = VA						
						(Non continuous): x 1.00 = VA						
						(Heating): 12000 x 1.00 = 12000 VA						
						(Air conditioning): x 1.00 = VA						
						(Largest motor): x 1.25 = VA						
						TOTAL LOAD 27569 31461 VA						
						+ 31 AMPS						

SPOKANE TRANSIT AUTHORITY
VALLEY TRANSIT CENTER IMPROVEMENTS
PROJECT # 14-STA-493

Property/Project Information:

PARCEL NO: 45201.0833
ADDRESS: 10501 E. 4TH AVENUE
ZONING: NA
BUILDING AREA: NA
BUILDING USE: NA
CONSTRUCTION TYPE: SITE WORK

Contact Information:

OWNER:
SPOKANE TRANSIT AUTHORITY
1230 WEST BOONE AVENUE
SPOKANE, WA 99201
(509) 325-6049
CONTACT - JESSICA CHARLTON
(JCHARLTON@SPOKANETRANSIT.COM)

ARCHITECT:
ALSC ARCHITECTS, P.S.
203 NORTH WASHINGTON STREET, SUITE 400
SPOKANE, WA 99201
(509)-838-8568
CONTACT - JEFF WARNER
JWARNER@ALSCARCHITECTS

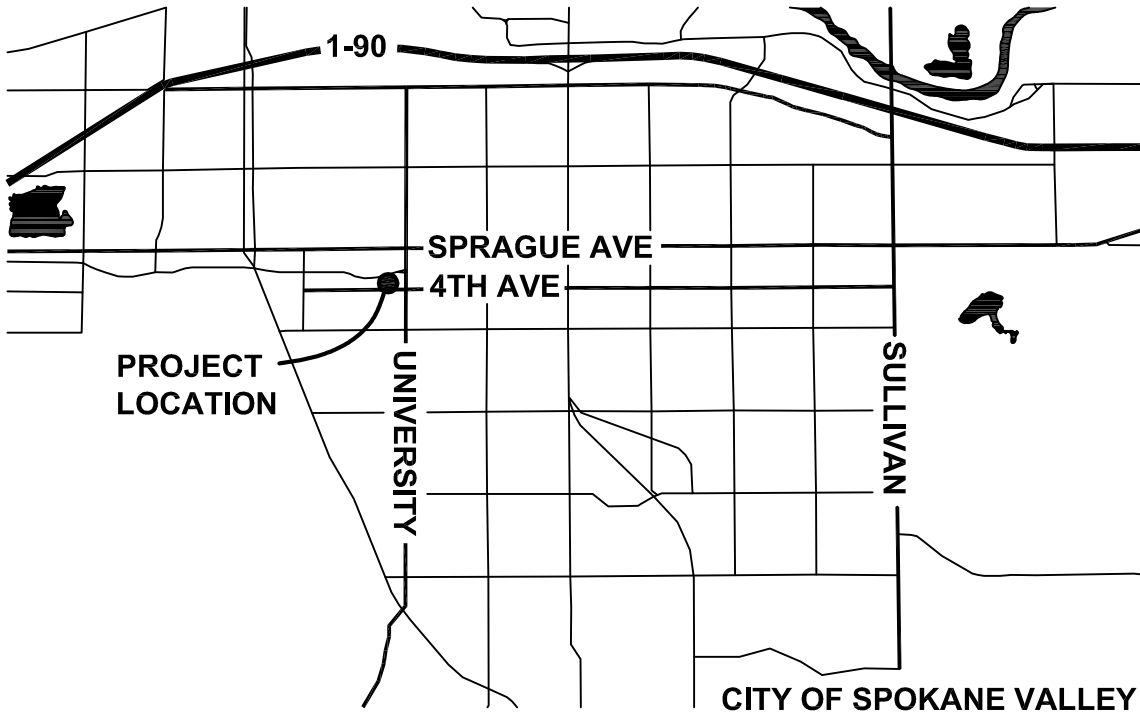
STRUCTURAL ENGINEER:
COFFMAN ENGINEERS, INC.
10 NORTH POST STREET, SUITE 500
SPOKANE, WA 99201
(509) 328-2994
CONTACT - SIRI ASHWORTH
ASHWORTH@COFFMAN.COM)

ELECTRICAL ENGINEER:
COFFMAN ENGINEERS, INC.
10 NORTH POST STREET, SUITE 500
SPOKANE, WA 99201
(509) 328-2994
CONTACT - ZACH YARBROUGH
(YARBROUGH@COFFMAN.COM)

Sheet Index:

GENERAL G-001 ARCHITECTURAL A-101 STRUCTURAL S-001 ELECTRICAL E-001 E-101 E-500	COVER SHEET PLANS, ELEVATIONS AND DETAILS GENERAL STRUCTURAL NOTES AND DETAILS SYMBOLS, LEGEND, ABBREVIATIONS AND SHEET INDEX ELECTRICAL PLANS ELECTRICAL DETAILS

Vicinity Map:



10 N. Post Street, Suite 500
Spokane, WA 99201
ph 509.328.2994
fax 509.328.2999
coffman.com

LASTING creativity | results | relationships



Liberty Building, Suite 400
203 North Washington
Spokane, WA 99201-0233

509.838.8568 - Phone
509.458.3710 - Fax

www.alscarchitects.com

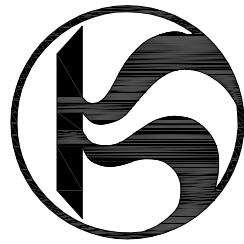


STAMP

COVER SHEET, INDEX & ABBREVIATIONS

STA Valley Transit Center
10501 E 4th Avenue
Spokane Valley, Washington

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201



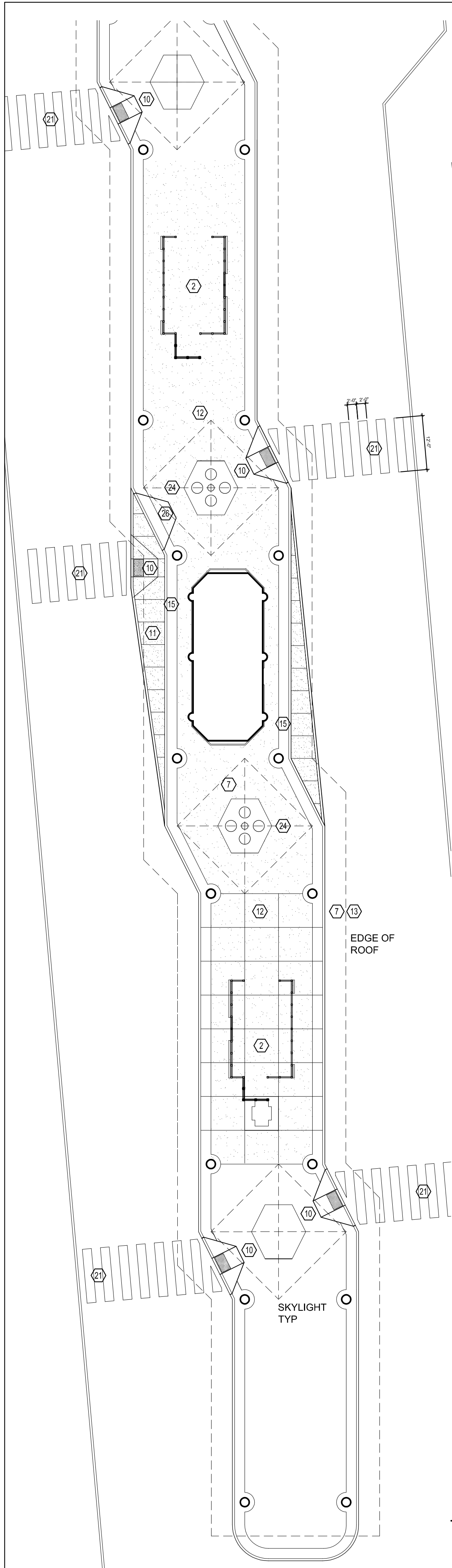
CLIENT INFORMATION

REVISIONS		
No.	Date	By

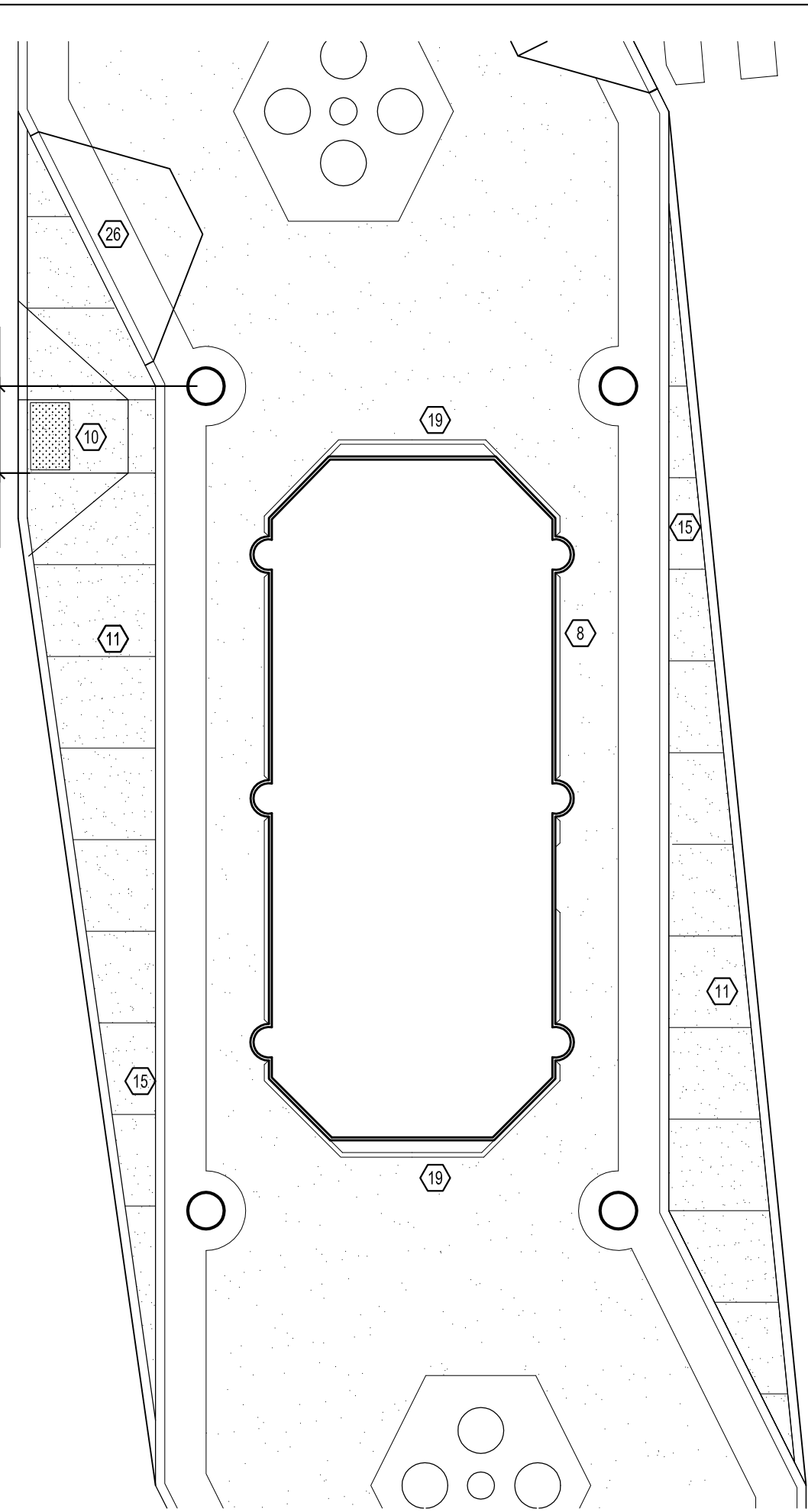
PROJ. NO. 14-STA-493
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CHECKED JW
DATE APRIL 23, 2014

G-101

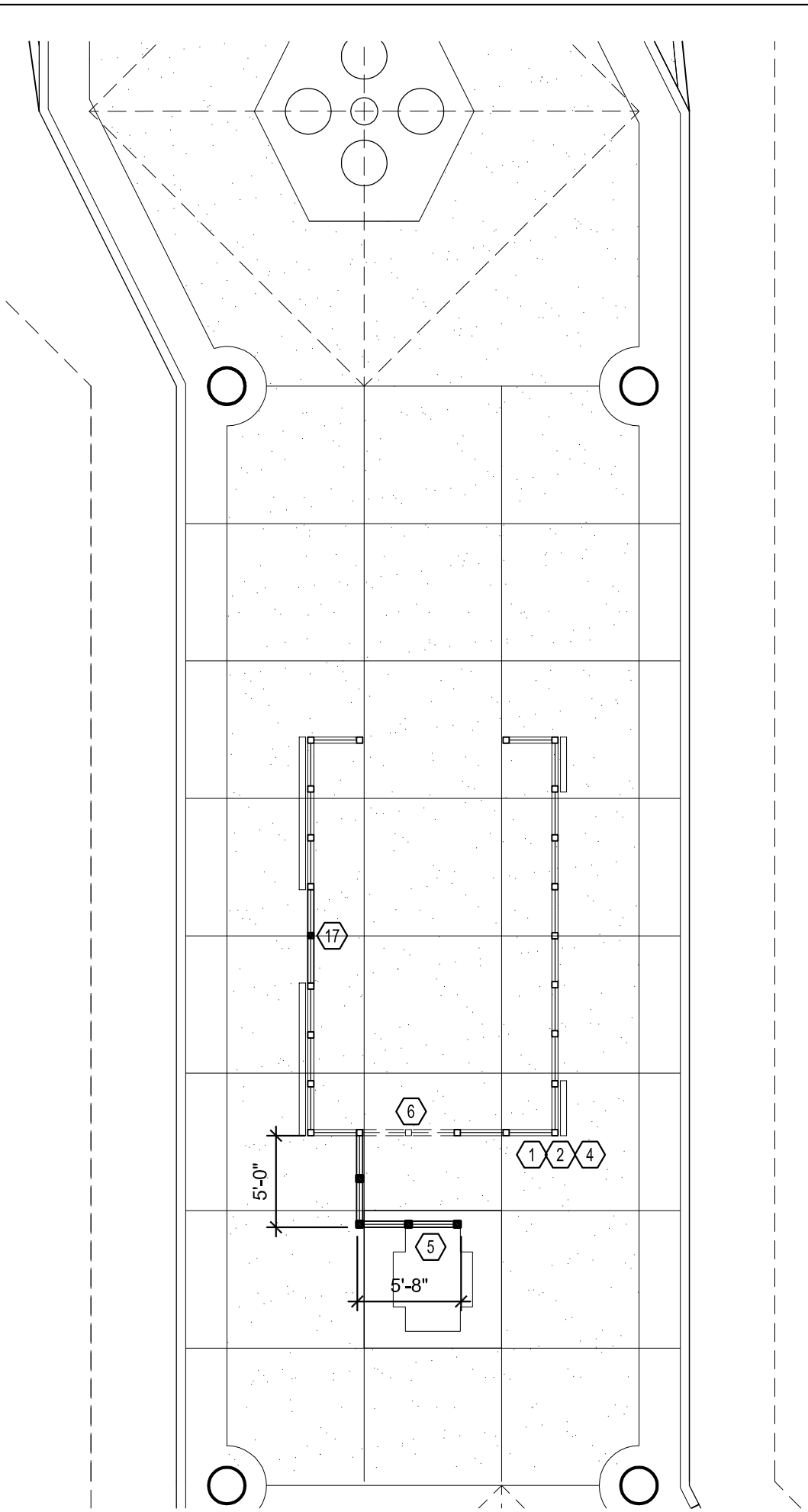
SHEET 1 of 6



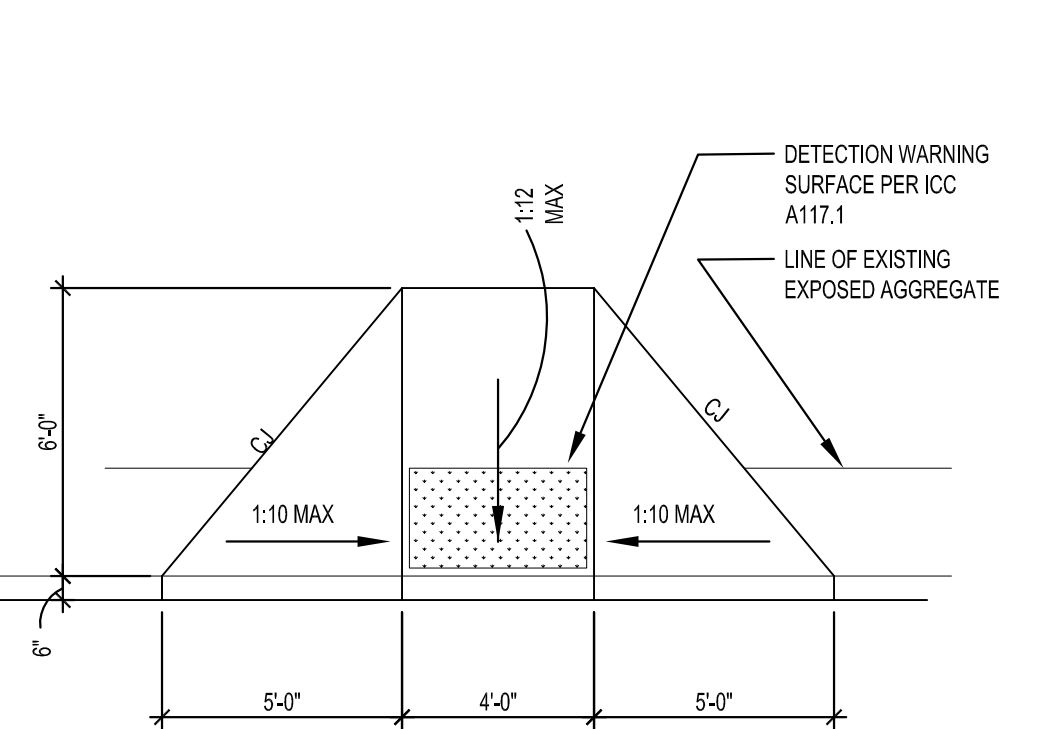
A1 SITE PLAN
SCALE: 1/16" = 1'-0"



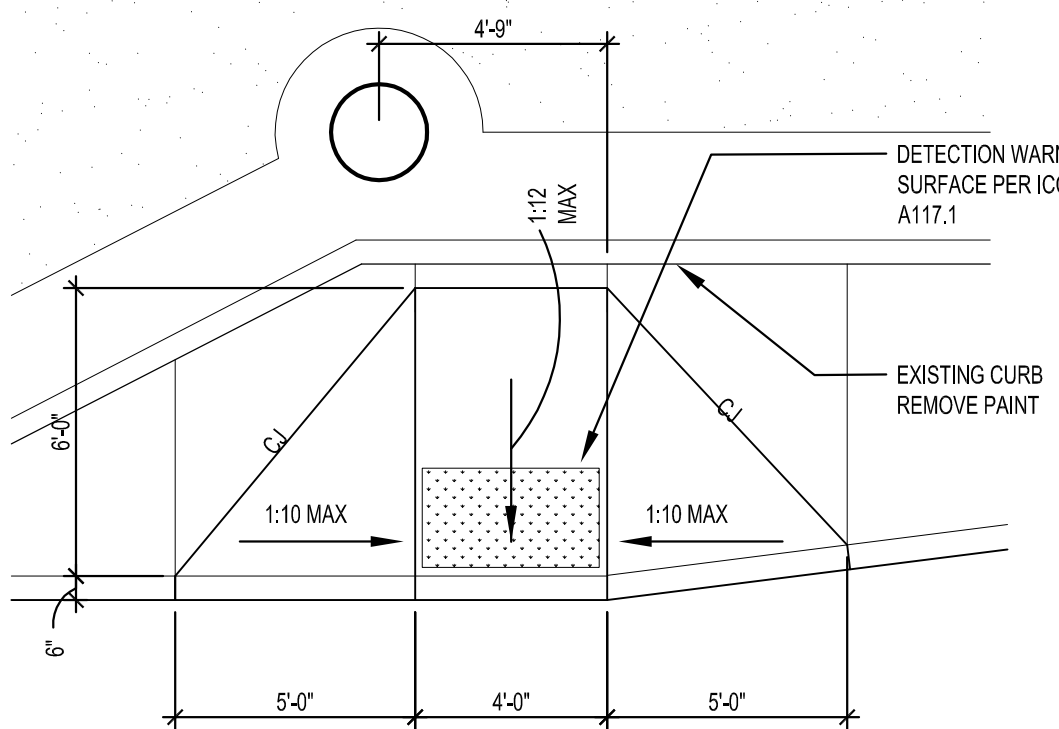
C2 ENLARGED FLOOR PLAN
SCALE: 1/8" = 1'-0"



C3 ENLARGED FLOOR PLAN
SCALE: 1/8" = 1'-0"



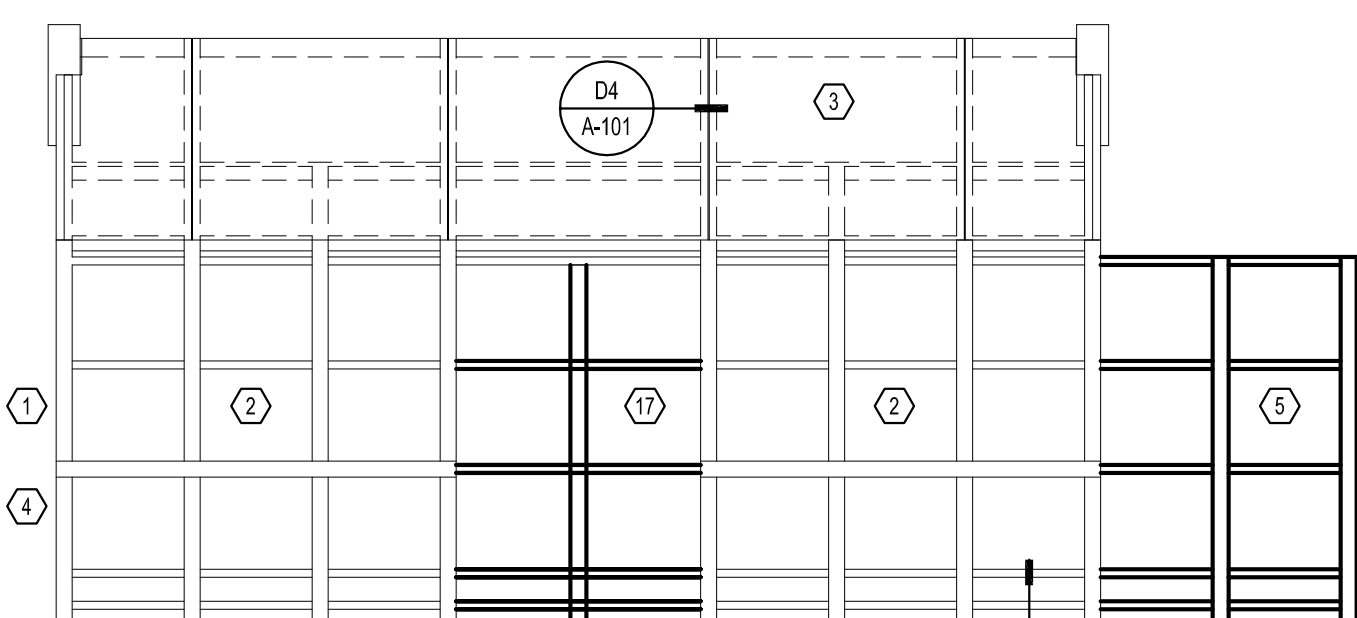
B2 CURB RAMP - PLAN
SCALE: 1/4" = 1'-0"



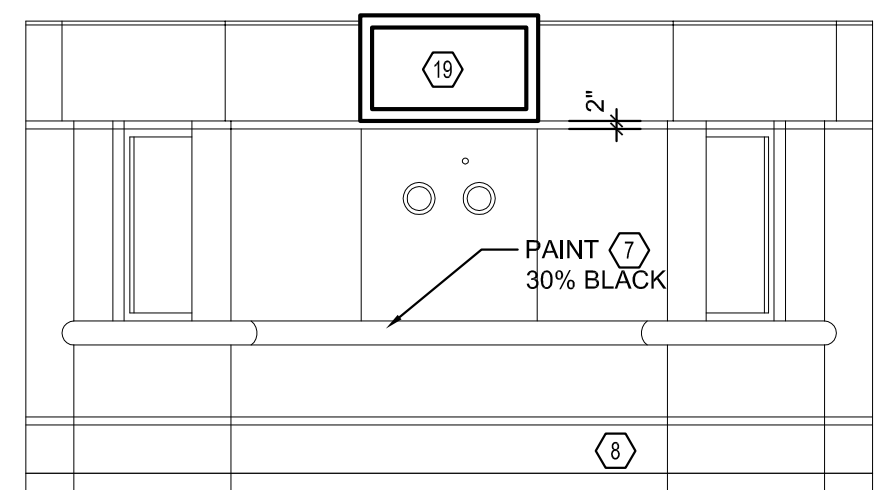
B3 CURB RAMP - PLAN
SCALE: 1/4" = 1'-0"



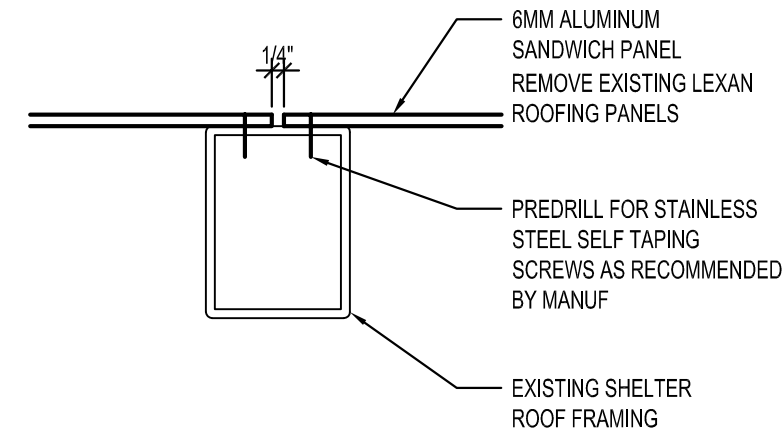
A2 SHELTER SOUTH ELEVATION
COLOR TO BE STA DURABLE BRIGHT WHITE
SCALE: 1/4" = 1'-0"



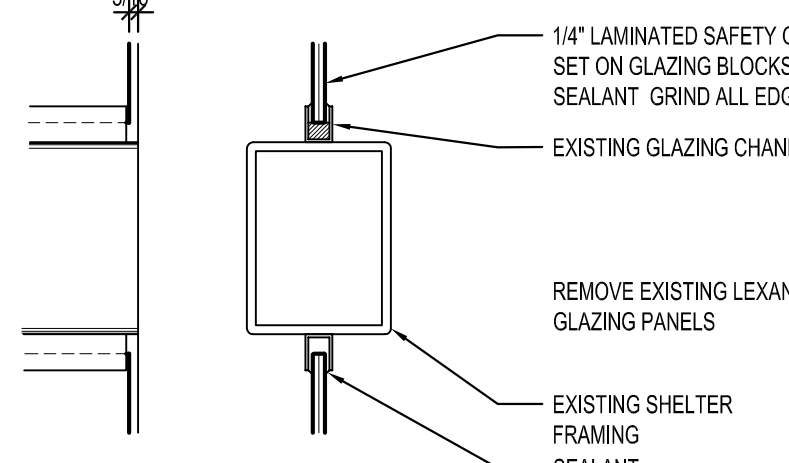
SHELTER WEST ELEVATION
COLOR TO BE STA DURABLE BRIGHT WHITE



OPERATIONS N AND S ELEVATION



D4 SHELTER ROOF DETAIL
SCALE: 3" = 1'-0"



C4 SHELTER GLAZING STOP
SCALE: 3" = 1'-0"



MAIN SIGN AT UNIVERSITY
PAINT FRAME STA CYAN BLUE
SIGN BACKGROUND STA DURABLE
BRIGHT WHITE



2 SIGNS AT 4TH AVENUE
PAINT SIGN & LIGHTS STA DURABLE
BRIGHT WHITE



GENERAL NOTES

- CONTRACTOR TO COORDINATE W/ OWNER REGARDING SCHEDULE AND PHASING SO AS NOT TO INTERFERE WITH ON GOING ACTIVITY.
- CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS.
- CONTRACTOR TO PROVIDE SAFE ACCESS TO BUS LOADING AND UNLOADING DURING THE CONSTRUCTION PERIOD. COORDINATE WITH STA OPERATIONS.
- CONTRACTOR'S STAGING AREA TO BE APPROVED BY STA

KEY NOTES

- PLUG WELD ALL HOLES IN SHELTERS, GRIND SMOOTH PRIOR TO PAINT.
- REPLACE ALL GLAZING IN SHELTER WITH NEW LAMINATED SAFETY GLASS. SET ON NEW GLAZING BLOCKS & SECURE TO PREVENT MOVEMENT C4/A101
- REPLACE ROOFING AT SHELTERS WITH ALUMINUM PANELS COLOR TO MATCH SHELTER
- PAINT SHELTERS REMOVE RUST & PREP PRIOR TO PAINTING.
- CONSTRUCT NEW WIND BREAK TO MATCH EXISTING FRAMING AND INSTALL NEW LAMINATED SAFETY GLASS. STOPS TO MATCH EXISTING
- REMOVE EXISTING FRAMING TO CREATE NEW OPENING. PATCH HOLES WHERE POSTS ARE CUT OFF WITH CONCRETE. GRIND SMOOTH WHERE FRAME WAS REMOVED AND PREP FOR PAINT
- PAINT ALL STRUCTURAL ELEMENTS INCLUDING BUT NOT LIMITED TO BEAMS, TRUSSES AND DECKING. PAINT FLASHING AND DRAIN PIPES. PAINT METAL PIPE RAIL ON OPERATIONS BUILDING (TAXABLE ON RAIL PAINTING ONLY).
- INSTALL 6" STAINLESS STEEL BASE AROUND THE ENTIRE PERIMETER OF THE OPERATIONS BUILDING. REMOVE EXISTING TILE BASE. (TAXABLE)
- PAINT COLOR TO BE STA 30% BLACK UNLESS NOTED OTHERWISE
- INSTALL NEW CODE COMPLIANT ADA CURB RAMPS AT EXISTING LOCATIONS. INCLUDING THE RAMPS LOCATED AT THE PARKING AREAS TO THE EAST & WEST OF THE BUS ISLAND.
- INSTALL NEW CURB AND WALK. MATCH ADJ SMOOTH FINISH.
- CLEAN AND SEAL EXISTING CONCRETE AND RE-CAULK THE EXISTING EXPANSION JOINTS.
- INSTALL A NEW 115 MIL EPDM ROOF OVER THE EXISTING ROOF MEMBRANE.
- REPAINT ALL YELLOW CURBS.
- REMOVE PAINT FROM CURB AND PAINT NEW CURB YELLOW.
- STA LOGO PAINTED AT EACH SIDE OF SHELTERS (4 LOCATIONS) PAINT ROUND ELEMENT STA WHITE.
- RELOCATED REMOVED SECTION OF SHELTER TO EXISTING OPENING
- TICKET KIOSK TO REMAIN
- WIRE FOR OWNER PROVIDED READER BD EA SIDE OF OPS BLDG (TAXABLE)
- REMOVE FOAM INSULATION AND APPLY SEALANT TO FILL GAP TYPICAL WHERE OCCURS.
- EXTEND PAVEMENT MARKINGS ACROSS DRIVE TO OPPOSITE CURB
- PAINT MAIN SIGN & STR, 4TH AVE SIGNS & STRS AND METAL SIGN LIGHT GUARDS. REMOVE RUST PRIOR TO PAINTING ARTWORK PROVIDED BY STA
- REMOVE RUST, PREP AND PAINT THE TRIANGULAR KIOSKS (4 LOCATIONS)
- BIRD DETERRENT SOUND SYSTEM INSTALLED BY MANUF OR QUALIFIED REP
- CLEAN & PAINT ALL WIRE BENCHES, SEATS AND GARBAGE CAN HOLDERS COLOR: STA CYAN BLUE
- INFILL EXISTING RAMP W/ CONCRETE TO MATCH ADJACENT SURFACES

PLANS AND ELEVATIONS DETAILS

STAMP

REGISTERED ARCHITECT

STA Valley Transit Center
10501 E 4th Avenue
Spokane Valley, Washington

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

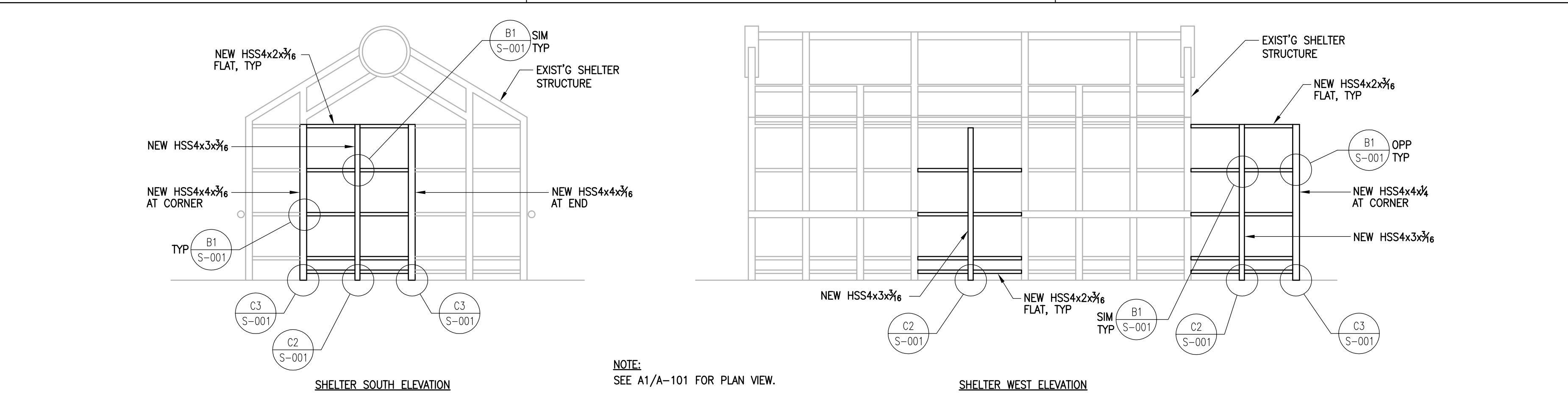
CLIENT INFORMATION

No.	Date	REVISIONS	By

PROJ. NO. 14-STA-493
DRAWN MAMW
CHECKED JW
DATE APRIL 23/2014

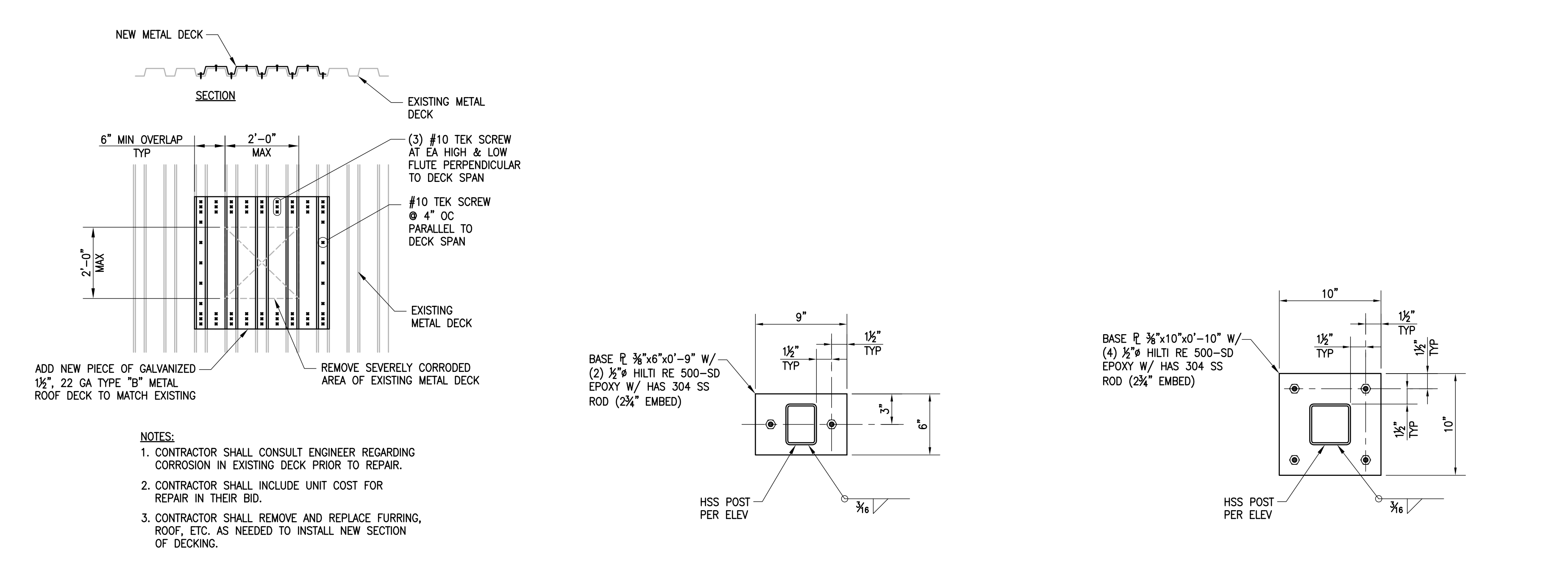
A-101

SHEET 2 of 6



D1 ELEVATIONS

SCALE: 1/4" = 1'-0"



C1 CORRODED METAL DECK REPAIR AT ROOF **C2** TYPICAL INTERMEDIATE POST BASE PLATE **C3** TYPICAL CORNER/END POST BASE PLATE

SCALE: 3/4" = 1'-0" SCALE: 1 1/2" = 1'-0" SCALE: 1 1/2" = 1'-0"



B1 TYPICAL TUBE TO TUBE WELD DETAIL

SCALE: 1 1/2" = 1'-0"

GENERAL STRUCTURAL NOTES

- GENERAL:**

THE STRUCTURAL CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE STRUCTURE IS DESIGNED TO BE A STABLE UNIT AS A COMPLETED WHOLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DESIGN, ERECT AND INSPECT TEMPORARY SHORES, BRACES, ETC. TO SUPPORT THE STRUCTURE AGAINST ALL ANTICIPATED LOADS INCLUDING GRAVITY, WIND AND LATERAL EARTH PRESSURE UNTIL ITS COMPLETION. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THESE METHODS OF CONSTRUCTION. CONSTRUCTION MATERIAL SHALL BE PLACED ON FRAMED FLOORS AND ROOFS SUCH THAT THE DESIGN LIVE LOADS ARE NOT EXCEEDED.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO STARTING CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT.

WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODE AND TESTING STANDARDS.

NOTES AND DETAILS ON THE DRAWINGS TAKE PRECEDENCE OVER THE GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. "TYPICAL" DETAILS ARE NOT FLAGGED ON THE DRAWINGS, BUT APPLY UNLESS NOTED OTHERWISE.

ALL STRUCTURAL ENGINEERING DESIGN PROVIDED BY OTHERS SHALL BE SUBMITTED FOR REVIEW AND SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
- COORDINATION:**

ALL DRAWINGS ARE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE DRAWINGS AND SPECIFICATIONS AMONG THE SUBCONTRACTORS PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES THAT ARE FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.

COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, VERIFYING THE LOCATION AND WEIGHT OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT AS WELL AS THE SIZE AND LOCATION OF ALL MECHANICAL OPENINGS IN ROOFS, FLOORS AND WALLS. UNLESS OTHERWISE NOTED ON THE DRAWINGS, DO NOT PENETRATE ANY STRUCTURAL ELEMENTS SUCH AS BEAMS, COLUMNS, WALLS, SLABS, ETC. WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT.
- SHOP DRAWINGS:**

THE CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS PRIOR TO ENGINEERING REVIEW. SUBMISSIONS FOR ENGINEERING REVIEW SHALL INCLUDE A REPRODUCIBLE AND ONE COPY; REPRODUCIBLE WILL BE MARKED AND RETURNED.
- SPECIAL INSPECTIONS:**

THE OWNER WILL EMPLOY AN ICC CERTIFIED SPECIAL INSPECTOR TO PROVIDE INSPECTION OF THE FOLLOWING ITEMS PER IBC CHAPTER 17 AND THE REQUIREMENTS OF THE APPROPRIATE LOCAL JURISDICTION:

EPOXY ANCHORS PER IBC TABLE 1704.3
- CODE:**

2012 EDITION OF THE INTERNATIONAL BUILDING CODE.
RISK CATEGORY ----- II
- DESIGN LOADS:**

ROOF SNOW LOAD ----- SEE SNOW LOADS BELOW

WIND:
BASIC WIND SPEED ----- 110 MPH
EXPOSURE CATEGORY ----- "C"

SNOW:
GROUND SNOW LOAD ----- 37 PSF
FLAT ROOF SNOW LOAD ----- 30 PSF
- STRUCTURAL STEEL:**

ROLLED SHAPES OTHER THAN WIDE-FLANGE SHAPES,
ALL PLATES, BARS AND RODS ----- ASTM A36, Fy = 36 KSI
ALL WIDE-FLANGE SHAPES ----- ASTM A992, Fy = 50 KSI
TUBULAR STEEL ----- ASTM A500, GRADE B, Fy = 46 KSI
EPOXY ANCHORS ----- HILTI RE 500-SD + HAS ROD

FABRICATION AND ERECTION:
LATEST AISC AND AWS CODES APPLY. FABRICATE AND ERECT IN ACCORDANCE WITH LATEST EDITION OF AISC "SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". SPLICING OF STRUCTURAL MEMBERS IS NOT PERMITTED UNLESS NOTED ON THE DRAWINGS. ALL BEAMS SHALL BE ERECTED WITH THE NATURAL CAMBER UPWARDS.

WELDING:
ALL WELDING SHALL BE BY CERTIFIED WELDERS HAVING CURRENT EXPERIENCE IN TYPE OF WELD SHOWN ON DRAWINGS OR NOTES. CERTIFICATES SHALL BE THOSE ISSUED BY AN ACCEPTED TESTING AGENCY. ALL WELDING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS D1.1 "STRUCTURAL WELDING CODE - STEEL" OR ALTERNATE AWS CODES AS APPLICABLE. ALL STRUCTURAL WELDING PROCESSES SHALL MEET THE H2 LOW HYDROGEN CRITERIA OF AWS D1.1 ANNEX I UNLESS OTHERWISE NOTED. USE 70XX ELECTRODES OR EQUIVALENT WIRE. SHOP WELDS AND FIELD WELDS SHALL BE SHOWN ON SHOP DRAWINGS. ALL COMPLETE PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING AGENCY. ALL DEFORMED BAR ANCHORS, HEADED STUDS AND THREADED STUDS SHALL BE END WELDED PER MANUFACTURER'S RECOMMENDATIONS.

BOLTS:
ALL BOLTS, ANCHOR BOLTS, EXPANSION BOLTS, ETC., SHALL BE INSTALLED WITH STEEL WASHERS. TYPE N BOLTS PER LATEST EDITION OF AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" AND MAY BE TIGHTENED TO THE SNUG-TIGHT CONDITION AS DEFINED BY AISC UNLESS NOTED OTHERWISE. SIMPSON BOLTS AND ANCHORS MAY BE SUBSTITUTED WITH AN APPROVED ICC RATED PRODUCT.
- STEEL DECK:**

ROOF:
B DECK: 1 1/2" X 22 GAGE GALVANIZED DECK WITH SHEET WIDTH = 36", MINIMUM
I = 0.216 IN*4, MINIMUM +S = 0.235 IN*3.

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GENERAL STRUCTURAL NOTES

STA Valley Transit Center
10501 E 4th Avenue
Spokane Valley, Washington

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

REVISIONS		
No.	Date	By

PROJ. NO. 14-STA-493
DRAWN SPW
CHECKED DLP
DATE APRIL 23, 2014

S-001

SHEET 3 of 6

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	SHEET NOTE
	CONDUIT, VERTICAL TRANSITION
	CONDUIT CAPPED
	HOME RUN X = PANELBOARD # = BRANCH CIRCUIT NUMBER(S)
	JUNCTION BOX
	SURFACE RACEWAY (DEVICES SHOWN)
	FLUSH FLOOR BOX (DEVICES SHOWN)
	POWER POLE
	VAULT
	TRANSFORMER
	GROUND CONNECTION
	AUTOMATIC TRANSFER SWITCH
	POWER METER
	RELAY
	VARIABLE FREQUENCY DRIVE
	FEEDER CALLOUT
	LIGHTING FIXTURE: ID = FIXTURE TYPE X = SWITCH ASSOCIATION
	2'x4' RECESSED FLUORESCENT FIXTURE
	1'x4' RECESSED FLUORESCENT FIXTURE
	1'x4' SURFACE MTD FLUORESCENT FIXTURE
	PENDANT-MTD/SUSPENDED FIXTURE
	WALL-MTD FLUORESCENT FIXTURE
	STRIP FLUORESCENT LIGHTING FIXTURE
	CEILING-MTD DIRECTIONAL FIXTURE
	CEILING-MTD FIXTURE
	TRACK LIGHT WITH NUMBER OF HEADS SHOWN
	WALL-MTD FIXTURE
	EXIT SIGN WITH ARROW INDICATING DIRECTION OF EGRESS
	WALL-MTD EXIT SIGN
	CEILING-MTD EXIT SIGN
	BATTERY POWERED EMERGENCY LIGHT
	SINGLE-POLE WALL SWITCH
	PHOTOCELL CONTROL
	OCCUPANCY SENSOR
	LIGHTING CONTROL PANEL
	WALL SWITCH: X = AS FOLLOWS: 3 - THREE-WAY 4 - FOUR-WAY D - DIMMER K - KEY-OPERATED LV - LOW-VOLTAGE LVM - LOW-VOLTAGE MASTER M - MOTOR STARTER WITH OVERLOADS MC - MOMENTARY CONTACT O - OCCUPANCY SENSOR P - PILOT LIGHT WP - WEATHERPROOF o - LOWER-CASE INDICATES SWITCHING CNTRL

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	RECEPTACLE OUTLET: X = AS FOLLOWS: C - CLOCK HANGER EP - EXPLOSION PROOF G - GROUND FAULT CIRCUIT INTERRUPT S - SAFETY TYPE T - TIMER CONTROLLED WP - WEATHERPROOF
	DUPLEX RECEPTACLE, 125V, 20A
	DOUBLE-DUPLEX RECEPT, 125V, 20A
	CEILING-MTD DUPLEX RECEPTACLE, 125V, 20A
	CEILING-MTD DOUBLE-DUPLEX RECEPTACLE, 125V, 20A
	SPECIAL PURPOSE RECEPTACLE X = TYPE
	MOTOR CONNECTION
	EQUIPMENT CONNECTION
	DISCONNECT SWITCH
	FLUSH MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
	208V OR 240V PANELBOARD
	DATA/TEL OUTLET, 2-PORTS
	WIRELESS ACCESS POINT

ELECTRICAL SPECIFICATIONS	
PART 1 -- GENERAL	
1.01 REFERENCES	A. UNDERWRITERS LABORATORIES INC.: UL 6 RIGID STEEL CONDUIT. UL 797 ELECTRICAL METALLIC TUBING. B. AMERICAN NATIONAL STANDARDS INSTITUTE: ANSI/NEMA FB 1 FITTINGS AND SUPPORTS FOR CONDUIT AND CABLE ASSEMBLIES. ANSI/NEMA OS 1 SHEET-STEEL OUTLET BOXES, DEVICE BOXES, COVERS AND BOX SUPPORTS. ANSI C80.1 RIGID STEEL CONDUIT. ANSI C80.3 ELECTRICAL METALLIC TUBING. C. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION: NEMA WC 5 THERMOPLASTIC INSULATED WIRE AND CABLE FOR THE TRANSMISSION AND DISTRIBUTION OF ELECTRICAL ENERGY.
1.02 SUPPORT SYSTEMS	A. SUPPORT SYSTEMS SHALL BE ADEQUATE FOR WEIGHT OF EQUIPMENT AND CONDUIT, INCLUDING WIRING, WHICH THEY CARRY.
1.03 SUBMITTALS	A. SUBMIT ON THE FOLLOWING: 1. LIGHT FIXTURES 2. PANELBOARDS
PART 2 -- PRODUCTS	
2.01 RIGID METAL CONDUIT AND FITTINGS	A. GALVANIZED RIGID STEEL CONDUIT: UL 6 AND ANSI C80.1; THICK WALL STEEL, HOT-DIP GALVANIZED, THREADED. B. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; THREADED TYPE, MATERIAL TO MATCH CONDUIT. C. INTERMEDIATE METAL CONDUIT (IMC): UL 1242 AND ANSI C80; STEEL, HOT DIPPED GALVANIZED, THREADED.
2.02 ELECTRICAL METALLIC TUBING (EMT) AND FITTINGS	A. EMT: UL 797 AND ANSI C80.3; STEEL TUBING, HOT-DIP GALVANIZED. B. FITTINGS: ANSI/NEMA FB 1; STEEL, RAINTIGHT, INSULATED THROAT, COMPRESSION TYPE.
2.03 FLEXIBLE METAL CONDUIT AND FITTINGS	A. FLEXIBLE METAL CONDUIT: FS WW-C-566; GALVANIZED STEEL. B. LIQUIDTIGHT CONDUIT: FLEXIBLE METAL CONDUIT WITH COPPER BONDING TAPE AND WEATHERPROOF JACKET. C. FITTINGS: ANSI/NEMA FB 1; STEEL, INSULATED THROAT.
2.04 CONDUIT SUPPORTS	A. CONDUIT CLAMPS, STRAPS, AND SUPPORTS: STEEL OR MALLEABLE IRON.
2.05 SUPPORTING DEVICES	A. SUPPORT CHANNEL: ELECTRO-GALVANIZED, 12 GAUGE, 1-5/8" X 1-5/8" MINIMUM SIZE. B. HARDWARE: CORROSION RESISTANT.
2.06 BUILDING WIRE	A. THERMOPLASTIC-INSULATED BUILDING WIRE: NEMA WC 5. 1. INTERIOR FEEDERS, BRANCH CIRCUITS #8 AND LARGER, AND CONTROL WIRING: COPPER, STRANDED CONDUCTOR, 600 VOLT INSULATION, 90 DEGREE TYPE THHN/THWN. SOLID CONDUCTOR IS UNACCEPTABLE. 2. BRANCH CIRCUITS #10 AND #12 WIRING: COPPER, SOLID CONDUCTOR, 600 VOLT INSULATION, 90 DEGREE TYPE THHN/THWN OR EQUIVALENT MC CABLE. 3. CONTROL PANEL WIRING: COPPER, STRANDED CONDUCTOR, 600 VOLT INSULATION, EXTRA FLEXIBLE TYPE MTW.
2.07 IDENTIFICATION	A. TAPE LABELS: EMBOSSED ADHESIVE TAPE, 3/8 INCH, WHITE LETTERS ON BLACK BACKGROUND. B. WIRE AND CABLE MARKERS: CLOTH MARKERS, SPLIT SLEEVE OR TUBING TYPE.

ELECTRICAL SPECIFICATIONS	
2.08 PANELBOARDS	A. ACCEPTABLE MANUFACTURERS SHALL BE SQUARE D, SIEMENS, EATON/CUTTLER HAMMER OR APPROVED EQUIVALENT B. BREAKER'S SERVING LIGHT CIRCUITS SHALL BE SWITCH RATED BREAKERS. C. PANELBOARD AND BREAKER SIZES SHALL MATCH AS SPECIFIED ON SHEET E2.1.
2.09 DISCONNECTS	A. ACCEPTABLE MANUFACTURERS SHALL BE SQUARE D, SIEMENS, EATON/CUTTLER HAMMER OR APPROVED EQUIVALENT. B. SWITCHES SHALL BE FUSED TYPE HEAVY DUTY 250 OR 600 VOLT RATED, OR AS NOTED, OF CAPACITY FOR SIZE OF MOTOR OR EQUIPMENT INDICATED ON THE DRAWINGS. C. ANY SNAP SWITCHES USED IN LIEU OF A FUSED DISCONNECT SHALL BE MOTOR RATED AND HAVE OVERLOAD PROTECTION IN ACCORDANCE WITH THE NEC.
2.10 OUTSIDE PLANT SINGLEMODE OPTICAL FIBER CABLE	A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING: 1. CORNING 2. BERK-TEK 3. COMMSCOPE 4. MOHAWK B. DESCRIPTION: OSP SINGLEMODE, 8.3/125-MICROMETER, 12-FIBER, NONCONDUCTIVE, SELF SUPPORTING (ADSS) LOOSE-TUBE, OPTICAL FIBER CABLE WITH EACH TUBE CONTAINING UP TO 12 FIBERS. 1. RUN UNDERGROUND SHALL BE RUN IN CONDUIT. 2. SHALL BE ADSS SELF SUPPORTING, LOOSE TUBE; GEL FILLED UTILIZING NON-HYGROSCOPIC, NON-CONDUCTIVE, FLOODED CORE, HOMOGENOUS GEL. 3. BUFFER TUBES REQUIRING STRIPES SHALL HAVE CO-EXTRUSION INLAID STRIPES OF CONTRASTING COLOR. 4. MAXIMUM ATTENUATION: 0.50 DB/KM AT 1310 NM; 0.5 DB/KM AT 1550 NM. C. JACKET: 1. CABLE CORDAGE JACKET, FIBER, UNIT, AND GROUP COLOR SHALL BE ACCORDING TO TIA/EIA-598-B. 2. IMPRINTED WITH FIBER COUNT, FIBER TYPE, AND AGGREGATE LENGTH AT REGULAR INTERVALS NOT TO EXCEED 40 INCHES.
PART 3 --- EXECUTION	
3.02 CONDUIT INSTALLATION	A. CUT CONDUIT SQUARE USING A SAW OR PIPE CUTTER; DE-BURR CUT ENDS. B. BRING CONDUIT TO THE SHOULDER OF FITTINGS AND COUPLINGS AND FASTEN SECURELY. C. CONDUIT TERMINATIONS AT SWITCHBOARDS, PULL BOXES, ETC., SHALL BE RIGIDLY SECURED USING LOCKNUTS AND METALLIC GROUNDING INSULATING BUSHINGS WHERE REQUIRED OR INDICATED ON DRAWINGS. D. USE CONDUIT BODIES TO MAKE SHARP CHANGES IN DIRECTION, AS AROUND BEAMS, ON APPROVAL OF ENGINEER ONLY. E. WHERE CONDUITS ENTER/EXIT FLOOR, PROVIDE THREADED COUPLING WITH UPPER END FLUSH WITH FINISHED FLOOR. INSTALL THREADED PLUGS IN UNUSED CONDUITS. F. USE HYDRAULIC ONE_SHOT CONDUIT BENDER OR FACTORY ELBOWS FOR BENDS IN CONDUIT LARGER THAN 1-1/4 INCH SIZE. G. USE SUITABLE CONDUIT CAPS TO PROTECT INSTALLED CONDUIT AGAINST ENTRANCE OF DIRT AND MOISTURE. H. PROVIDE SUITABLE PULL STRING IN ALL SPARE AND DATA/COMMUNICATION CONDUITS INSTALLED OR ACCESSED IN THIS CONTRACT, EXCEPT SLEEVES AND NIPPLES. I. SEAL BETWEEN RACEWAY AND BUILDING WHERE RACEWAY PASSES THROUGH EXTERIOR WALL OR RATED FIREWALL PER THE FOLLOWING: 1. CONCRETE CONSTRUCTION: CAST CONDUIT IN WALL OR CORE DRILL WALL AND HARD PACK WITH EQUAL PARTS OF SAND AND CONCRETE OR AN EQUIVALENT METHOD AS APPROVED BY OWNER.
3.03 CONDUIT INSTALLATION SCHEDULE	A. EXPOSED OUTDOOR LOCATIONS: GALVANIZED RIGID STEEL CONDUIT. B. DRY INTERIOR LOCATIONS WITHIN 48 INCHES OF FLOOR OR 2 INCHES DIAMETER AND LARGER: GALVANIZED RIGID STEEL CONDUIT, INTERMEDIATE METAL CONDUIT. C. DRY INTERIOR LOCATIONS HIGHER THAN 48 INCHES ABOVE THE FLOOR AND SMALLER THAN 2 INCHES DIAMETER: ELECTRICAL METALLIC TUBING. D. MOTOR TERMINALS: FLEXIBLE METAL CONDUIT (18" MAXIMUM LENGTH) FOR FLEXIBILITY. INCLUDE INTERNAL GROUND WIRE. E. THE ABOVE SCHEDULE APPLIES UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATIONS.
3.04 COORDINATION OF BOX LOCATIONS	A. PROVIDE ELECTRICAL BOXES AS SHOWN ON THE DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, AND CODE COMPLIANCE. B. SUPPORT BOXES INDEPENDENT OF CONDUIT. C. ELECTRICAL BOX LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE UNLESS DIMENSIONED. VERIFY LOCATION OF OUTLETS IN OFFICES AND WORK AREAS PRIOR TO ROUGH-IN. D. LOCATE AND INSTALL BOXES TO ALLOW ACCESS. WHERE INSTALLATION IS INACCESSIBLE, COORDINATE LOCATIONS AND SIZES OF REQUIRED ACCESS DOORS. E. LOCATE AND INSTALL TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.
3.05 SUPPORTING DEVICES	A. FASTEN HANGER RODS, CONDUIT CLAMPS, AND OUTLET AND JUNCTION BOXES TO BUILDING STRUCTURE. B. DO NOT FASTEN SUPPORTS TO PIPING, DUCTWORK, MECHANICAL EQUIPMENT, OR CONDUIT. C. DO NOT USE POWDER-ACTUATED ANCHORS.
3.06 GENERAL WIRING METHODS	A. USE NO WIRE SMALLER THAN 12 AWG FOR POWER AND LIGHTING CIRCUITS, AND NO SMALLER THAN 14 AWG FOR CONTROL WIRING, UNLESS OTHERWISE NOTED ON THE DRAWINGS. B. SIZE CONDUCTORS AS SHOWN ON THE DRAWINGS. NO SIZE DEVIATION SHALL BE PERMITTED, UNLESS NOTED OTHERWISE ON DRAWING. C. SPLICE ONLY IN JUNCTION OR OUTLET BOXES. NO SPLICING SHALL BE PERMITTED IN PANELBOARD ENCLOSURES. D. FEEDERS SHALL NOT BE SPLICED WITHOUT SPECIFIC APPROVAL FROM OWNER. E. NEATLY TRAIN AND LACE WIRING INSIDE BOXES, EQUIPMENT, AND PANELBOARDS.

ELECTRICAL SPECIFICATIONS	
3.07 WIRING INSTALLATION IN RACEWAYS	A. PULL ALL CONDUCTORS INTO A RACEWAY AT THE SAME TIME. USE UL LISTED WIRE PULLING LUBRICANT FOR PULLING 4 AWG AND LARGER WIRES. B. INSTALL WIRE IN RACEWAY AFTER ALL MECHANICAL WORK LIKELY TO DAMAGE CONDUCTORS HAS BEEN COMPLETED.
3.08 WIRING CONNECTIONS AND TERMINATIONS	A. SPLICE ONLY IN ACCESSIBLE JUNCTION BOXES. B. USE UL LISTED COMPRESSION TYPE CONNECTORS WITH INSULATING COVERS FOR COPPER WIRE SPLICES AND TAPS. FOR 8 AWG AND SMALLER, USE INSULATED SPRING CONNECTORS WITH PLASTIC CAPS; 3M SCOTCHLOK OR EQUAL. C. THOROUGHLY CLEAN WIRES BEFORE INSTALLING LUGS AND CONNECTORS. D. MAKE SPLICES, TAPS, AND TERMINATIONS TO CARRY FULL AMPACITY OF CONDUCTORS WITHOUT PERCEPTIBLE TEMPERATURE RISE. E. TERMINATE DEAD-ENDED CONDUCTORS WITH ELECTRICAL TAPE AND MAKE SAFE.
3.09 FIELD QUALITY CONTROL	A. INSPECT WIRE AND CABLE FOR PHYSICAL DAMAGE AND PROPER CONNECTION. B. TORQUE TEST CONDUCTOR CONNECTIONS AND TERMINATIONS TO MANUFACTURER'S RECOMMENDED VALUES.
3.10 COLOR CODING	A. WIRING SHALL CONFORM TO THE FOLLOWING COLOR CODE. SIZES #8 AWG AND SMALLER SHALL BE COLORED, #6 AWG AND LARGER MAY BE COLORED WITH PLASTIC TAPE OF THE APPROPRIATE COLOR. <u>DESCRIPTION 208Y/120VCNTRL</u> PHASE A (LEFT) BLACK - PHASE B (CENTER) RED - PHASE C (RIGHT) BLUE - NEUTRAL WHITE WHITE GROUND GREEN GREEN 120 VAC CONTROL - RED 120 VAC CONTROL NEUTRAL - WHITE DC CONTROL (+) - BLUE DC CONTROL (-) - BLUE/WHITE EXTERNAL SOURCE - YELLOW
3.11 IDENTIFICATION	A. DEGREASE AND CLEAN SURFACES TO RECEIVE NAMEPLATES AND TAPE LABELS. B. INSTALL NAMEPLATES ON ALL EQUIPMENT DISCONNECTS, CONTROL PANELS, ETC., INSTALLED. INSTALL PARALLEL TO EQUIPMENT LINES. C. SECURE NAMEPLATES TO EQUIPMENT USING SCREWS. D. INSTALL LABELS (EMBOSSED TAPE) ON ALL OTHER BOXES AND DEVICES, INCLUDING BUT NOT LIMITED TO SWITCHES, RECEPTACLES. E. NAMEPLATES AND LABELS SHALL INDICATE PANEL AND CIRCUIT NUMBER EQUIPMENT IS SERVED FROM. (*PNLA:2" FOR CIRCUIT 2 FROM PANEL A). F. PROVIDE WIRE MARKERS ON EACH CONDUCTOR IN PANELBOARD GUTTERS, PULL BOXES, OUTLET AND JUNCTION BOXES, AND AT ALL LOAD CONNECTIONS. IDENTIFY WITH BRANCH CIRCUIT OR FEEDER NUMBER AS INDICATED ON DRAWINGS. FOR CONTROL WIRING, IDENTIFY WITH WIRE NUMBER INDICATED ON THE SCHEMATIC OR INTERCONNECTION DIAGRAMS. PROVIDE MEGGER RESULTS. USE ATTACHED FORM A (16050), LOW VOLTAGE (600V AND LESS) INSULATION MEGGER TEST REPORT.
3.12 COMMUNICATION CABLE	A. CAT5e - SUPERIOR ESSEX 24 GAUGE, FOUR TWISTED PAIR SOLID COPPER, DATA GRADE FOR 100Mbps LAN SYSTEM. CABLE SHALL BE PLENUM RATED.
3.13 CABLE SUPPORTS AND WRAPS	A. CABLE J-HOOK: 1. APPROVED MANUFACTURES ARE CADDY, B-LINE, OR APPROVED EQUIVALENT. 2. BRIDAL RINGS ARE NOT APPROVED FOR USE. 3. J HOOK WIDTH SHALL BE MINIMUM 3/4". PROVIDE SIZE APPROPRIATE FOR CONDUCTOR QUANTITY. MULTI-TIER J-HOOKS SHALL BE PROVIDED TO SEPARATE DIFFERENT LOW VOLTAGE SYSTEMS WHERE A COMMON ROUTE OR PATHWAY IS USED. B. TIE WRAP 1. APPROVED MANUFACTURES ARE LEVITON OR APPROVED EQUIVALENT. 2. TIE WRAPS SHALL BE RECLOSABLE LOOP WRAP STYLE. AVAILABLE IN 1/2" WIDE, 15'-75' BULK ROLLS OF HOOK AND LOOP WRAP. 3. PLASTIC FASTENERS ARE NOT APPROVED.
3.14 VOICE/DATA CONNECTORS	A. LEVITON, RJ-45 CONFIGURATION MULTI-MEDIA JACK, CAT 5e EIA/TIA 569B COMPLIANT FLUSH MOUNT. LEVITON #56110-R15. B. WALL PLATE SHALL BE SINGLE GANG, 6-PORT IVORY AS STANDARD, WITH DESIGNATION WINDOW, LEVITON #42080-4IS
3.15 TESTING AND ACCEPTANCE	A. START-UP: THE COMMUNICATIONS SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR THE START-UP, COMMISSIONING, AND TROUBLESHOOTING OF THE SIGNAL AND COMMUNICATIONS SYSTEMS. NOTIFY THE OWNER, ARCHITECT AND ENGINEER OF THE DATE AND TIME OF COMMISSION TESTING AT LEAST TWO WEEKS PRIOR TO TESTING. THE OWNER MAY SELECT TO HAVE THE TESTING WITNESSES BY THEIR PERSONNEL OR AN AUTHORIZED REPRESENTATIVE. START-UP AND TESTING OF THE SYSTEM BY THE ELECTRICAL SUBCONTRACTOR IS NOT ACCEPTABLE. B. TEST RESULTS: UPON COMPLETION OF THE TESTING, THE COMPLETED TEST DOCUMENTATION SHALL BE SENT TO THE ARCHITECT STATING THAT THE ADJUSTMENT AND COMMISSIONING OF THE SYSTEM IS COMPLETE. A COPY OF EACH TEST SHALL BE INCLUDED IN THE OPERATIONS AND MAINTENANCE MANUAL. C. DEFICIENCIES: IN THE EVENT THAT DEFECTS OR DEFICIENCIES ARE FOUND, THEY ARE TO BE CORRECTED TO THE SATISFACTION OF THE ARCHITECT. D. ACCEPTANCE: SIGNAL AND COMMUNICATIONS SYSTEMS WILL NOT BE ACCEPTED ON A DEVICE-BY-DEVICE OR AREA-BY-AREA BASIS, BUT ONLY AS A FULLY COMPLETED AND OPERATIONAL SYSTEM. BENEFICIAL USAGE SHALL START UPON SUCCESSFUL COMPLETION OF THE SYSTEM TEST AND ACCEPTANCE BY THE OWNER. E. UTP CABLING: ALL UTP WIRING WILL BE CERTIFIED TO MEET OR EXCEED THE SPECIFICATIONS AS SET FORTH IN THE LINK PERFORMANCE TESTING SPECIFICATIONS FOR FIELD TESTING OF UNSHIELDED TWISTED PAIR CABLING SYSTEMS, TIA/EIA TSB-67 LEVEL II FOR CAT5e LINKS. CERTIFICATIONS SHALL INCLUDE THE FOLLOWING PARAMETERS FOR EACH PAIR OF EACH CABLE INSTALLED: 1. WIRE MAP(PIN TO PIN CONNECTIVITY), LENGTH(FEET), ATTENUATION, CROSSTALK(NEXT)

ELECTRICAL SPECIFICATIONS	
3.16 TERMINATIONS	A. THE CONTRACTOR SHALL TERMINATE, TEST AND LABEL ALL COPPER. B. ALL TERMINATIONS MUST BE MADE BY CERTIFIED PERSONNEL IN STRICT ACCORDANCE WITH THE CONNECTOR MANUFACTURERS INSTALLATION PROCEDURE. AS A CONDITION OF THE CONTRACT AWARD, THE CONTRACTOR MUST PROVIDE EVIDENCE THAT THE PERSONNEL PERFORMING THE TERMINATIONS ARE CERTIFIED BY THE CONNECTOR MANUFACTURER. C. ALL CABLES MUST BE TERMINATED USING A COMPRESSION CONNECTION TOOL ALL CABLES SHALL BE INSTALLED USING EIA/TIA 568, 569, 570, BICSI AN STANDARDS AS FOLLOWS: WIRE PAIR TWISTS MUST BE MAINTAINED TO 1/2" OF IDC CONTACTS ON EACH JACK, JACKETING MUST BE UNDAMAGED FOR THE FULL LENGTH OF THE CABLE RUN AND MUST CONTINUE TO WITHIN TWO INCHES OF THE IDC CONTACT ON EACH JACK, EACH END OF EACH CABLE MUST BE SECURED TO THE JACK MODULE WITH A CABLE TIE. ANY CABLES DAMAGED DURING PULLING SHALL BE THE RESPONSIBILITY OF THE PULLING PARTY/PARTIES (ELECTRICAL CONTRACTOR OR LAN INSTALLER). ANY FAILING TESTS SHALL BE RE-TERMINATED, RE-ROUTED, RE-TESTED, ETC., UNTIL NO OTHER ALTERNATIVES EXISTING, AT WHICH TIME IT WILL BE ASSUMED THAT A BAD CABLE RUN (TOO MUCH TWISTING OF THE CABLE, COMPRESSION OF JACKETING AND WIRE PAIRS, ETC) HAS RESULTED (AT THE DISCRETION OF THE LAN TESTER) AN THE PULLING PARTY/PARTIES WITH HAVE TO BEAR THE RESPONSIBILITY OF RE-PULLING NEW CABLE TO REPLACE IT.
3.17 OPTICAL FIBER CABLE INSTALLATION	A. COMPLY WITH TIA/EIA-568-B.3. B. CABLE SHALL BE TERMINATED ON CONNECTING HARDWARE THAT IS IN 19-INCH RACK MOUNTED ENCLOSURES WITH COVERS THAT CAN BE CLOSED. EACH ENCLOSURE WILL BE LABELED AND EACH LABEL WILL BE MACHINE PRINTED WITH PERMANENT INK. C. ALL FIBER ENCLOSURES WILL BE MANAGED WITH JUMPER TRAYS BELOW THE ENCLOSURE. D. PULLING TENSION FOR OSP SINGLE MODE FIBER OPTIC CABLE SHALL NOT EXCEED 400 POUNDS OR MAXIMUM RATING OF CABLE, WHICHEVER IS LESSER. E. IF MECHANICAL ASSISTANCE IS REQUIRED TO PULL CABLE THROUGH CONDUIT SYSTEM THEN THE USE OF A TENSION LIMITING DEVICE AND A FORCE GAUGE IS REQUIRED.
END OF SECTION	

GENERAL NOTES	
1. MOUNTING HEIGHTS OF DUPLEX RECEPTACLES AND OTHER OUTLETS SHALL BE 16" TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED.	
2. CATALOG NUMBERS USED SHALL BE AS NOTED OR APPROVED EQUALS.	
3. CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES.	
4. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIAL FOR COMPLETE WIRING SYSTEMS AS SHOWN OR SPECIFIED.	
5. INSTALLATION SHALL COMPLY WITH NEC 2008 AND LOCAL CODES.	
6. CONTRACTOR TO REFER TO MANUFACTURES DOCUMENTS FOR ADDITIONAL DATA PRIOR TO STARTING ROUGH-IN.	
7. CONTRACTOR TO PROVIDE ALL RECEPTACLES, CORDS, CORD CAPS, SWITCHES AND WIRING UNLESS OTHERWISE NOTED.	

SHEET INDEX	
Sheet Number	Sheet Title
E-001	SYMBOLS LEGEND, ABBREVIATIONS AND SHEET INDEX
E-101	ELECTRICAL PLANS
E-500	ELECTRICAL DETAILS

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509.458.3710 - Fax

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STAMP

SYMBOLS LEGEND, ABBREVIATIONS
AND SHEET INDEX

STA Valley Transit Center
1601 E 4th Avenue
Spokane Valley, Washington

SHEET TITLE

CLIENT INFORMATION

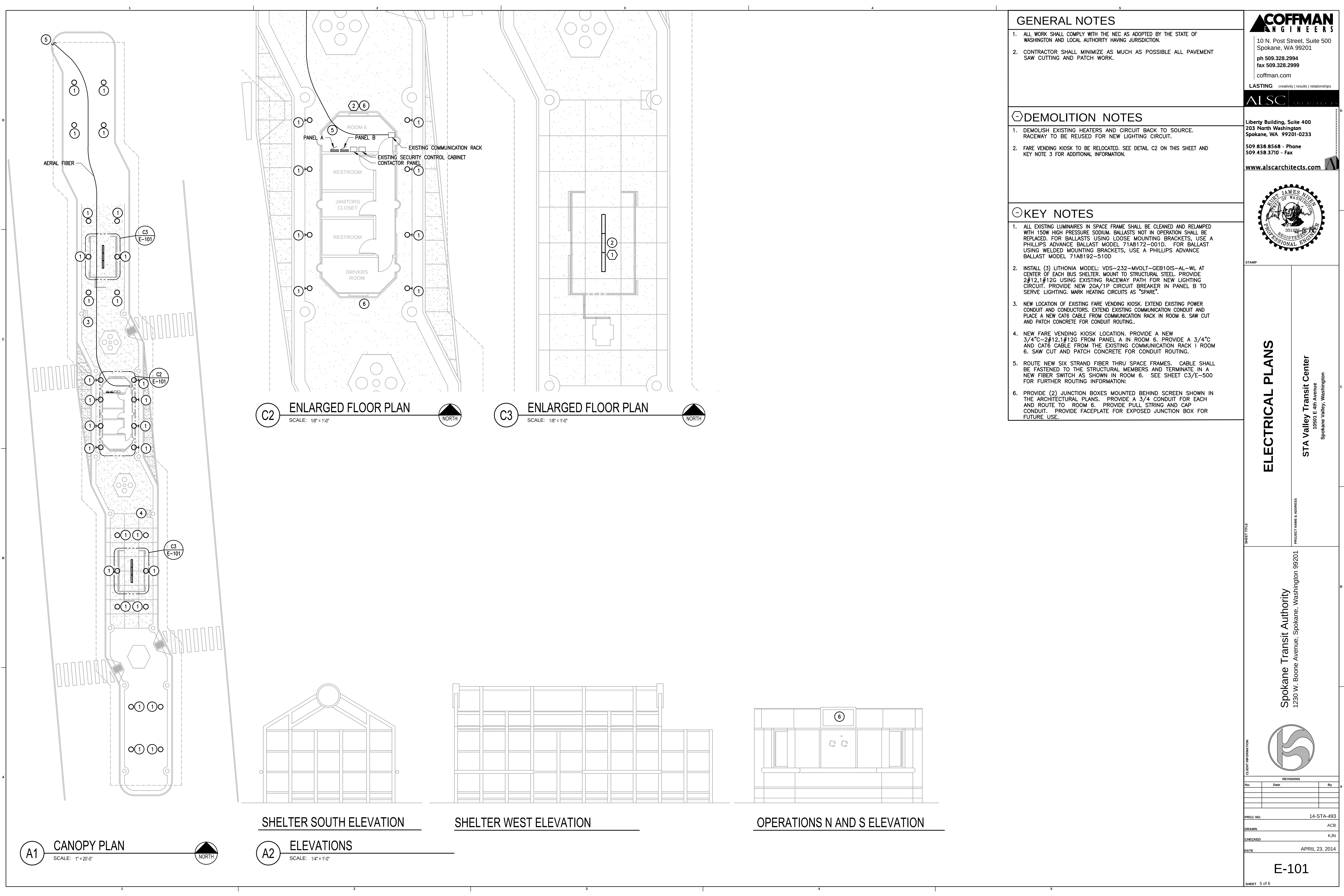
Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

REVISIONS		
No.	Date	By

PROJ. NO. 14-STA-493
DRAWN ACB
CHECKED K.J.N
DATE APRIL 23, 2014

E-001

SHEET 4 of 6



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ELECTRICAL PLANS

STA Valley Transit Center
1601 E 4th Avenue
Spokane Valley, Washington

PROJECT NAME & ADDRESS

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

REVISIONS		
No.	Date	By

PROJ. NO. 14-STA-493

DRAWN ACB

CHECKED KJN

DATE APRIL 23, 2014

E-101

SHEET 5 of 6



C3 FIBER TIE IN POINT
SCALE: NTS

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE NEC AS ADOPTED BY THE STATE OF WASHINGTON AND LOCAL AUTHORITY HAVING JURISDICTION.
2. PRIOR TO ANY WORK INVOLVING THE EXISTING FIBER INFRASTRUCTURE, THE FOLLOWING PEOPLE SHALL BE NOTIFIED 24 HOURS IN ADVANCE FOR SCHEDULING OF INSPECTION OF WORK:

STA
CITY OF SPOKANE VALLEY – RYAN KIPP (509)–720–5016
DOT KEN – ELIG (509)–324–6555
SPOKANE COUNTY – JASON (509)–520–6792
3. CONTRACTOR IS RESONSIBLE FOR OBTAINING ALL UTILITY LOCATES BEFORE DIGGING.

KEY NOTES

1. IN EXISTING D.O.T. COMMUNICATIONS VAULT, SPLICE TWO EXISTING SPARE FIBER CIRCUITS WITH A NEW 6 STRAND SINGLE MODE FIBER CABLE AND ROUTE THROUGH EXISTING 2" CONDUIT TO HANDHOLE. CIRCUIT SHALL EXTEND THROUGH NEW PATHWAY DESCRIBED IN SHEET NOTE 2.
2. FROM EXISTING HANDHOLE, PROVIDE A PENETRATION FOR A 2" CONDUIT. PROVIDE TRENCH AND CONDUIT TO NEW 16' MINIMUM HEIGHT WOOD UTILITY POLE. PROVIDE A 2" RISER CONDUIT AND PROVIDE AERIAL HARDWARE TO RUN THE NEW 6 STRAND SM FIBER LINE OVERHEAD TO THE SPACE FRAME STRUCTURE. PROVIDE ANCHORS AND SUPPORTS ALONG SPACE FROM STRUCTURE AND ROUTE TO FIBER SWITCH IN SECURITY ROOM 6.



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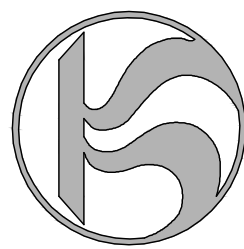
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ELECTRICAL DETAILS

STA Valley Transit Center
16501 E 4th Avenue
Spokane Valley, Washington

PROJECT NAME & ADDRESS

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201



REVISIONS		
No.	Date	By

PROJ. NO.	14-STA-493
DRAWN	ACB
CHECKED	KJN
DATE	APRIL 23, 2014

E-500

SHEET 6 of 6



**SPOKANE TRANSIT
1230 W. BOONE AVENUE
SPOKANE, WA 99201**

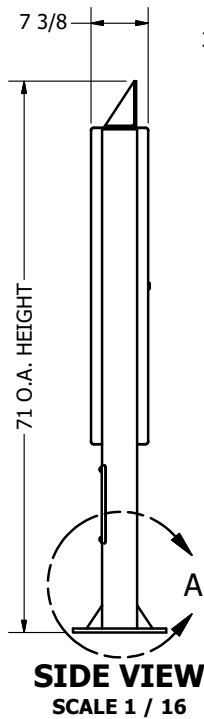
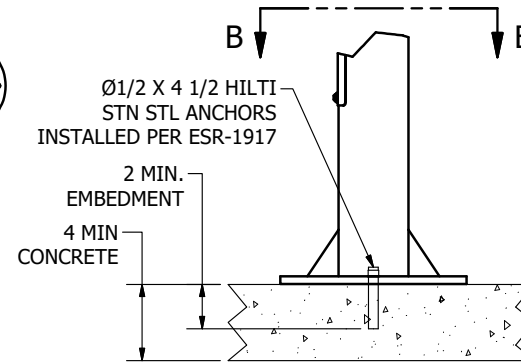
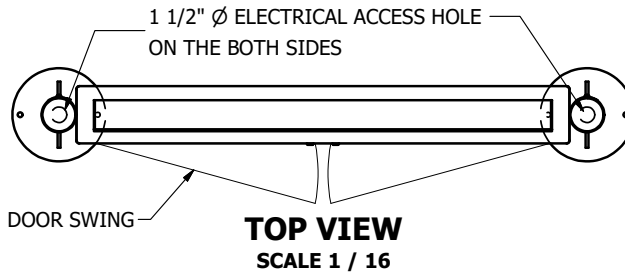
**Appendix 08 – Tolar Free-Standing Kiosk
SPRAGUE LINE HPT - PHASE 2**

PROJECT #2025-11062



GENERAL NOTES:

1. ALL STRUCTURAL STEEL, UNLESS OTHERWISE NOTED, SHALL BE ASTM A-36, MINIMUM YIELD STRENGTH 36,000 PSI.
2. ALL STRUCTURAL ALUMINUM MEMBERS, UNLESS OTHERWISE NOTED, SHALL BE OF ALLOY 6063-T5 OR GREATER.
3. ALL HOLES TO BE DRILLED OR PUNCHED.
4. STEEL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D1. 1-10. ELECTRODES SHALL CONFORM TO AWS 5.1, CLASS E70S-5.
5. ALUMINUM WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D1. 2-08. ELECTRODES SHALL CONFORM TO AWS/SFA 5.10 CLASS ER4043.
6. ALL WELDING TO BE DONE AT TOLAR MANUFACTURING COMPANY, INC. FACILITY.

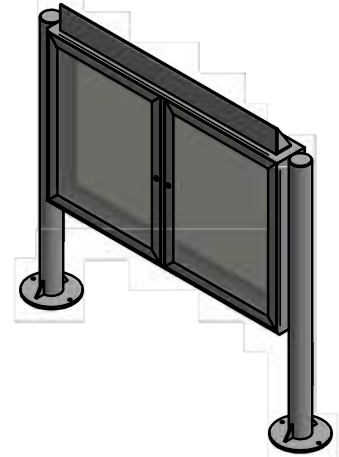
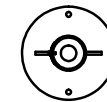
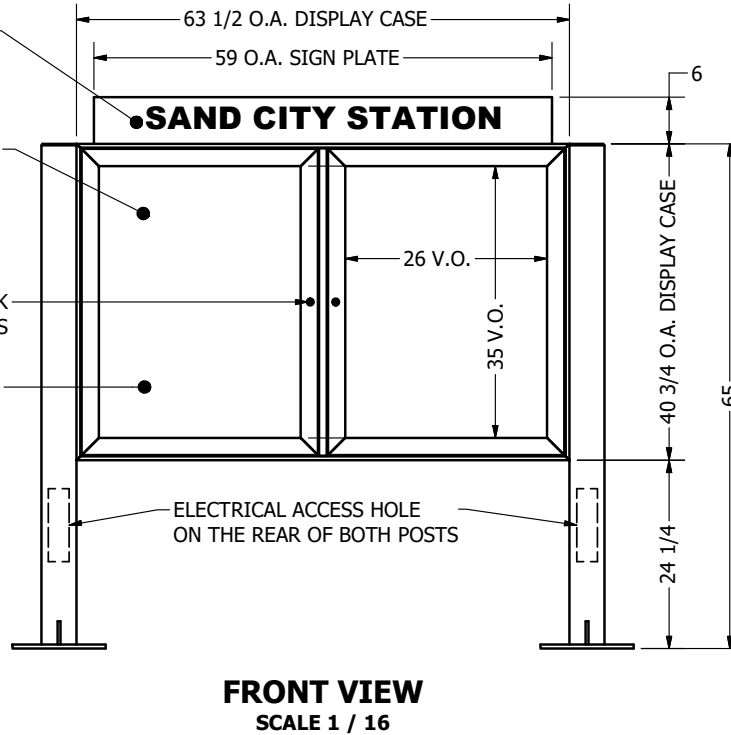


SIGN PLATE TO HAVE 3" BLACK ARIEL SCRIPT DECAL STATING SAND CITY STATION

34 1/2" X 25" GRAPHIC SIZE 3/16" MAKROLON SL IN EACH FACE

CAM LOCK 2 PLACES

LED ILLUMINATION (120 VAC)



 Tolar Manufacturing Company, Inc 258 Mariah Circle, Corona CA. 92879			
DESCRIPTION FLAT FREE-STANDING KIOSK			
CUSTOMER/VENDOR MONTEREY SALINAS TRANSIT			
SIZE B	MATL. ALUMINUM	DWG NO. 17758-00	REV. NO.
SCALE 1/16	DATE 1/3/2013	DRAWN BY: eromera	



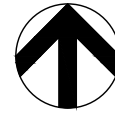
**SPOKANE TRANSIT
1230 W. BOONE AVENUE
SPOKANE, WA 99201**

**Appendix 09 – Phase 2 ROW Exhibits
SPRAGUE LINE HPT - PHASE 2**

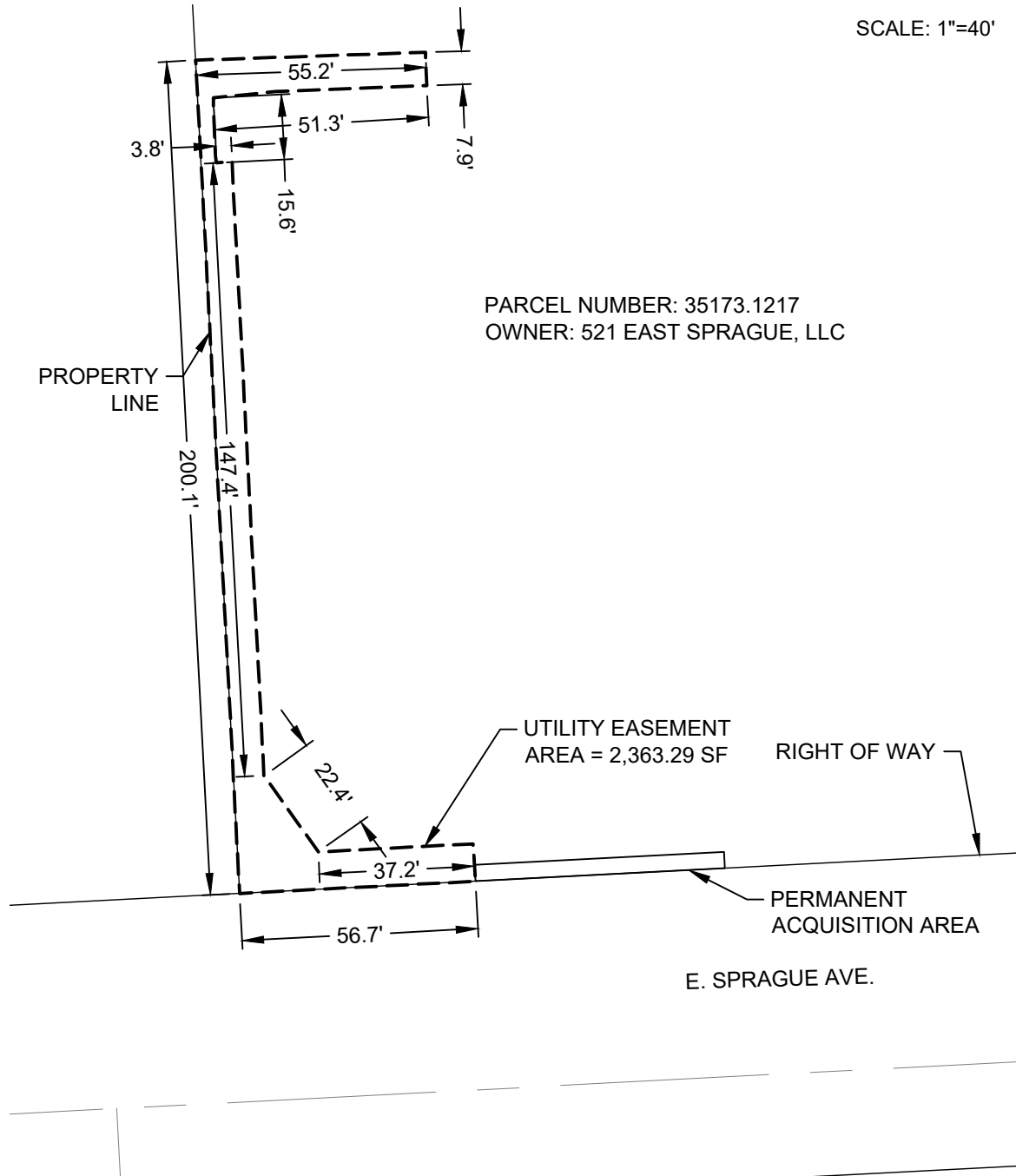
PROJECT #2025-11062



UTILITY EASEMENT EXHIBIT



SCALE: 1"=40'



PARCEL NUMBER: 35173.1217
OWNER: 521 EAST SPRAGUE, LLC

**COFFMAN
ENGINEERS**
221 N. Wall Street, Suite 500
Spokane, WA 99201
ph 509.328.2994
www.coffman.com

LOCATION: S SHERMAN ST AND E SPRAGUE AVE, WESTBOUND
SPOKANE, WA

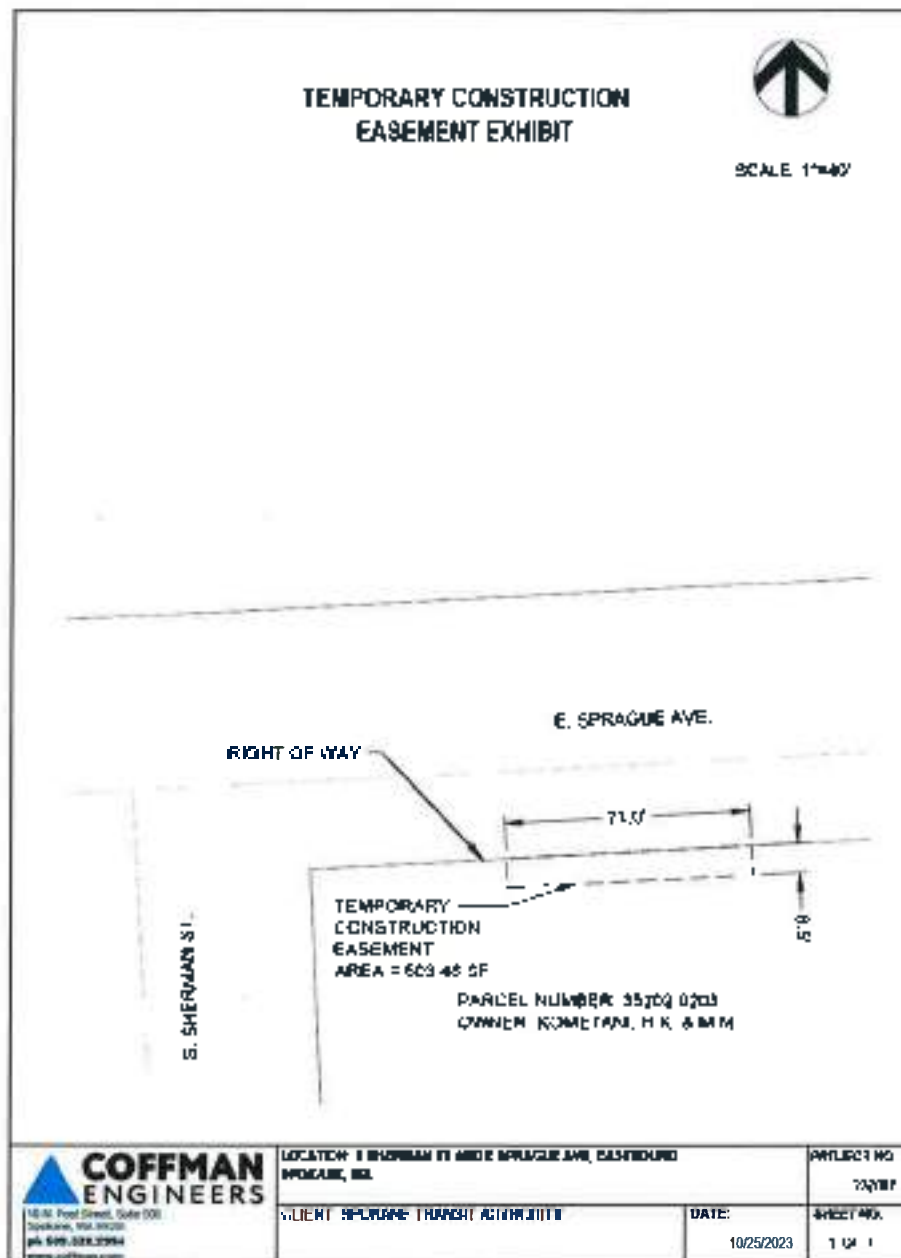
CLIENT: SPOKANE TRANSIT AUTHORITY

DATE:
06/07/2024

PROJECT NO.
232007

SHEET NO:
1 OF 1

EXHIBIT A TCE AREA



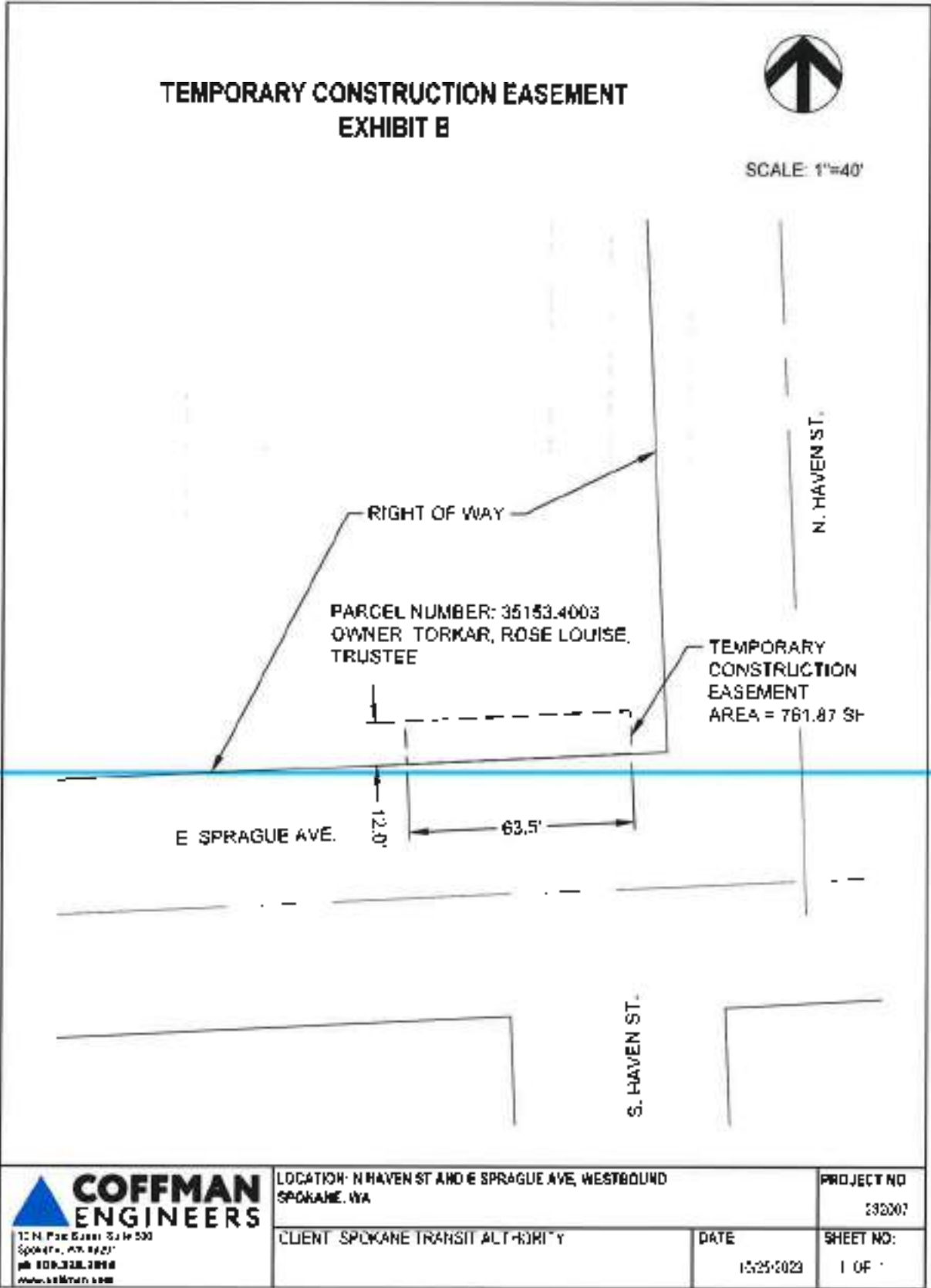
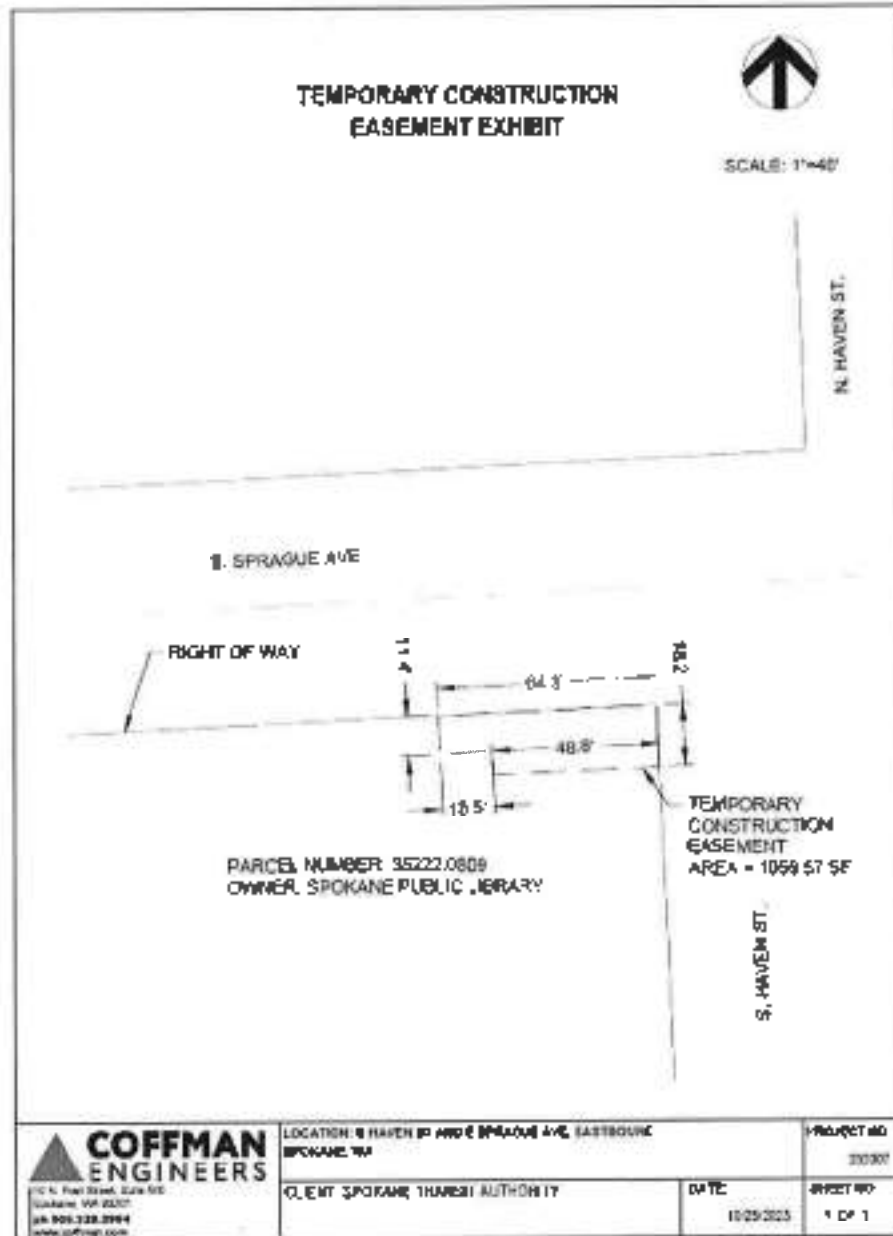
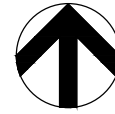


EXHIBIT A

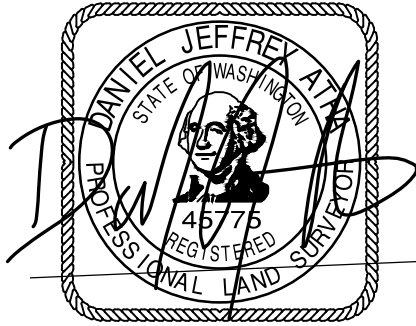


TEMPORARY CONSTRUCTION EASEMENT EXHIBIT

3527 E. SPRAGUE AVE. (APN. 35153.0012)

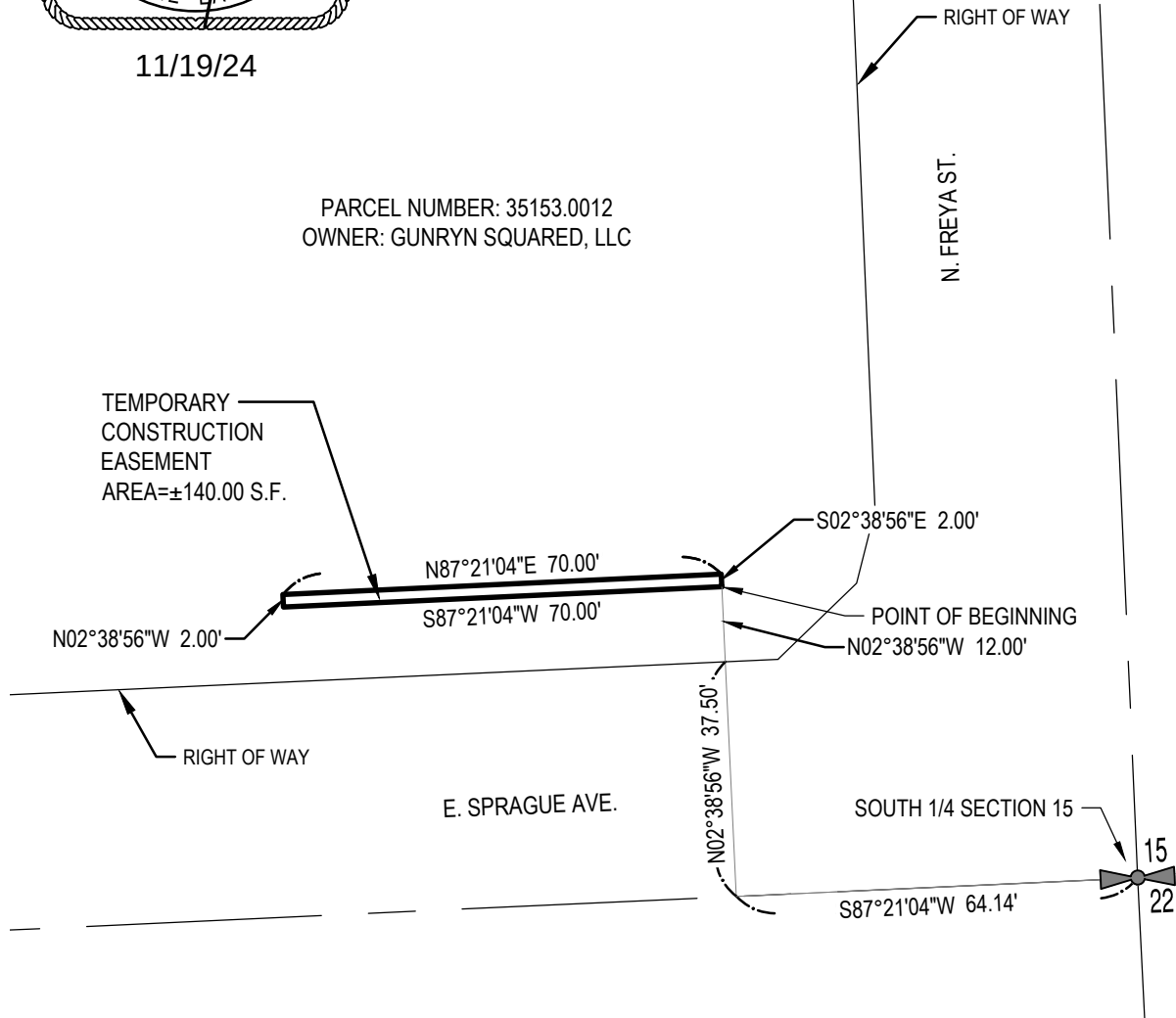


SCALE: 1"=30'



11/19/24

PARCEL NUMBER: 35153.0012
OWNER: GUNRYN SQUARED, LLC



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221 N. Wall Street, Suite 500
Spokane, WA 99201
ph 509.328.2994
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LOCATION: N FREYA ST AND E SPRAGUE AVE, WESTBOUND, SPOKANE, WA

PROJECT NO.

232007

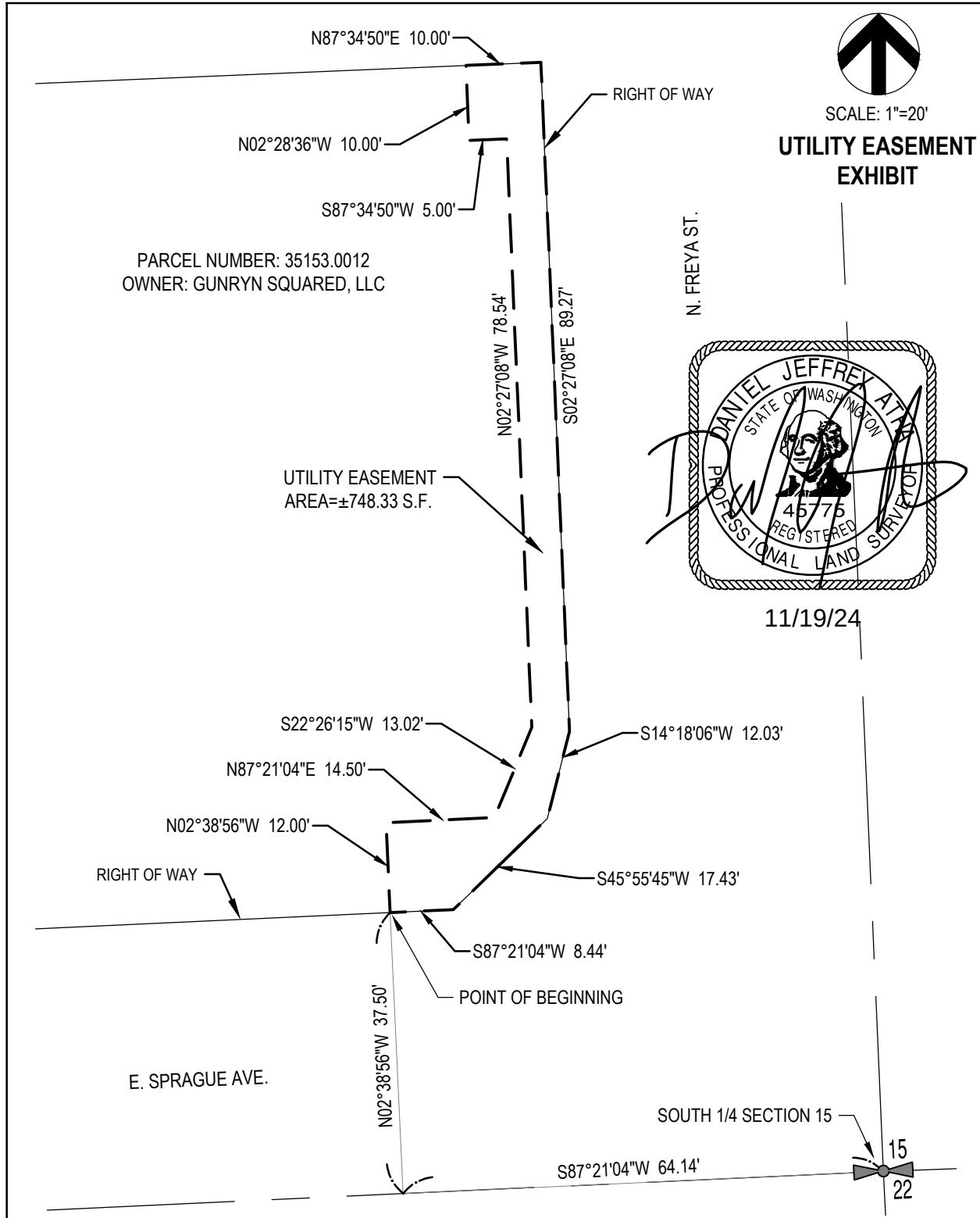
CLIENT: SPOKANE TRANSIT AUTHORITY

DATE:

11/19/2024

SHEET NO:

1 OF 1



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LOCATION: N FREYA ST AND E SPRAGUE AVE, WESTBOUND, SPOKANE, WA

CLIENT: SPOKANE TRANSIT AUTHORITY

DATE:

11/19/2024

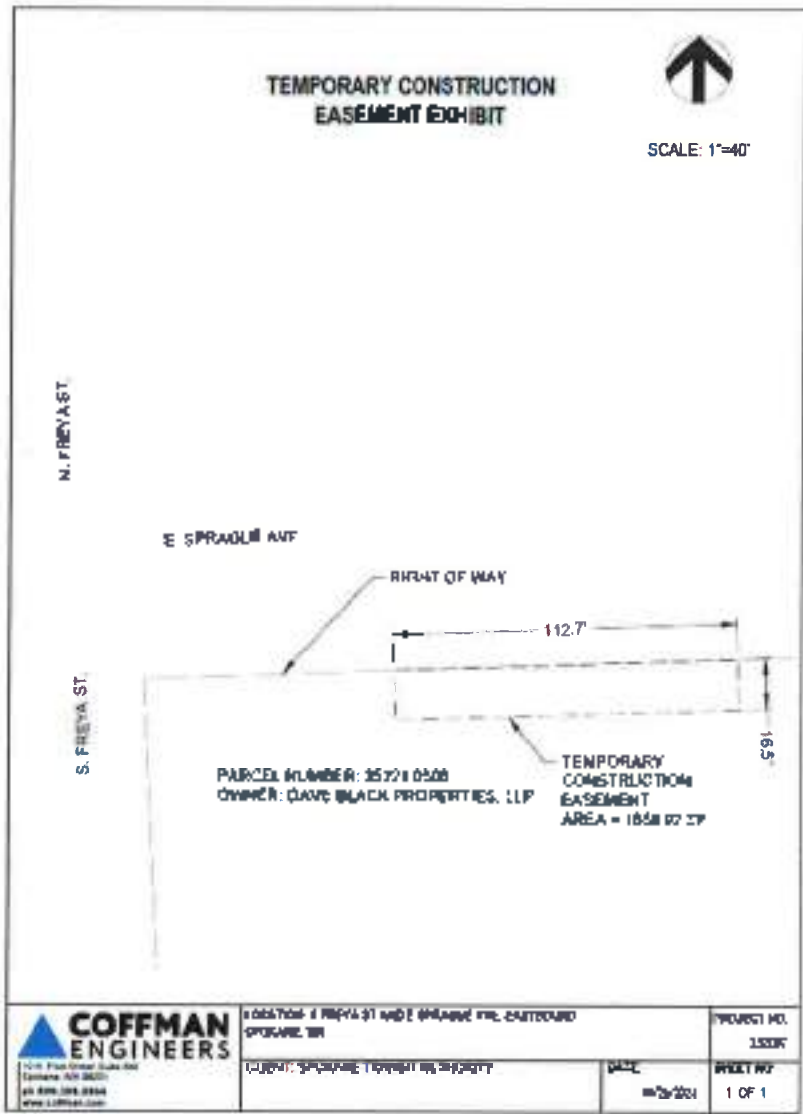
PROJECT NO.

232007

SHEET NO:

1 OF 1

EXHIBIT A



**TEMPORARY CONSTRUCTION
EASEMENT EXHIBIT**



SCALE: 1"=50'

N. HAVANA ST.

E. SPRAGUE AVE.

S. HAVANA ST.

5.0'

92.0'

TEMPORARY
CONSTRUCTION
EASEMENT
AREA = 900.00 SF

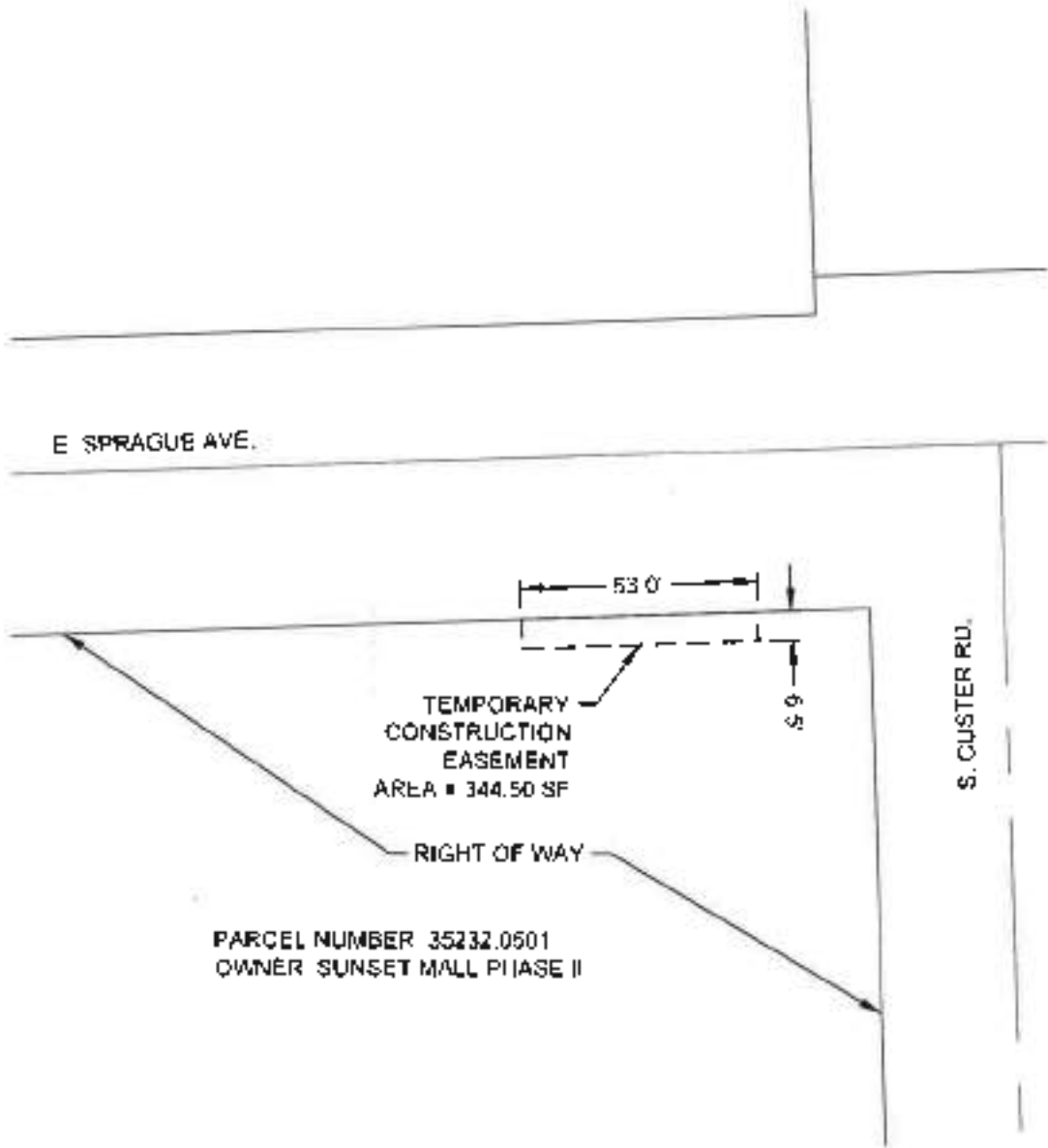
RIGHT OF WAY

PARCEL NUMBER: 35232.9107
OWNER: MCDONALD'S CORP

TEMPORARY CONSTRUCTION EASEMENT
EXHIBIT B



SCALE: 1"=40'



 **COFFMAN
ENGINEERS**
1001 West Street, Suite 100
Spokane, WA 99201
ph. 863.328.2684
www.coffman.com

LOCATION: S CUSTER RD AND E SPRAGUE AVE EASTBOUND
SPOKANE, WA

CLIENT: SPOKANE TRANSIT AUTHORITY

DATE

12/25/2023

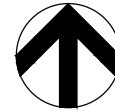
PROJECT NO.

232007

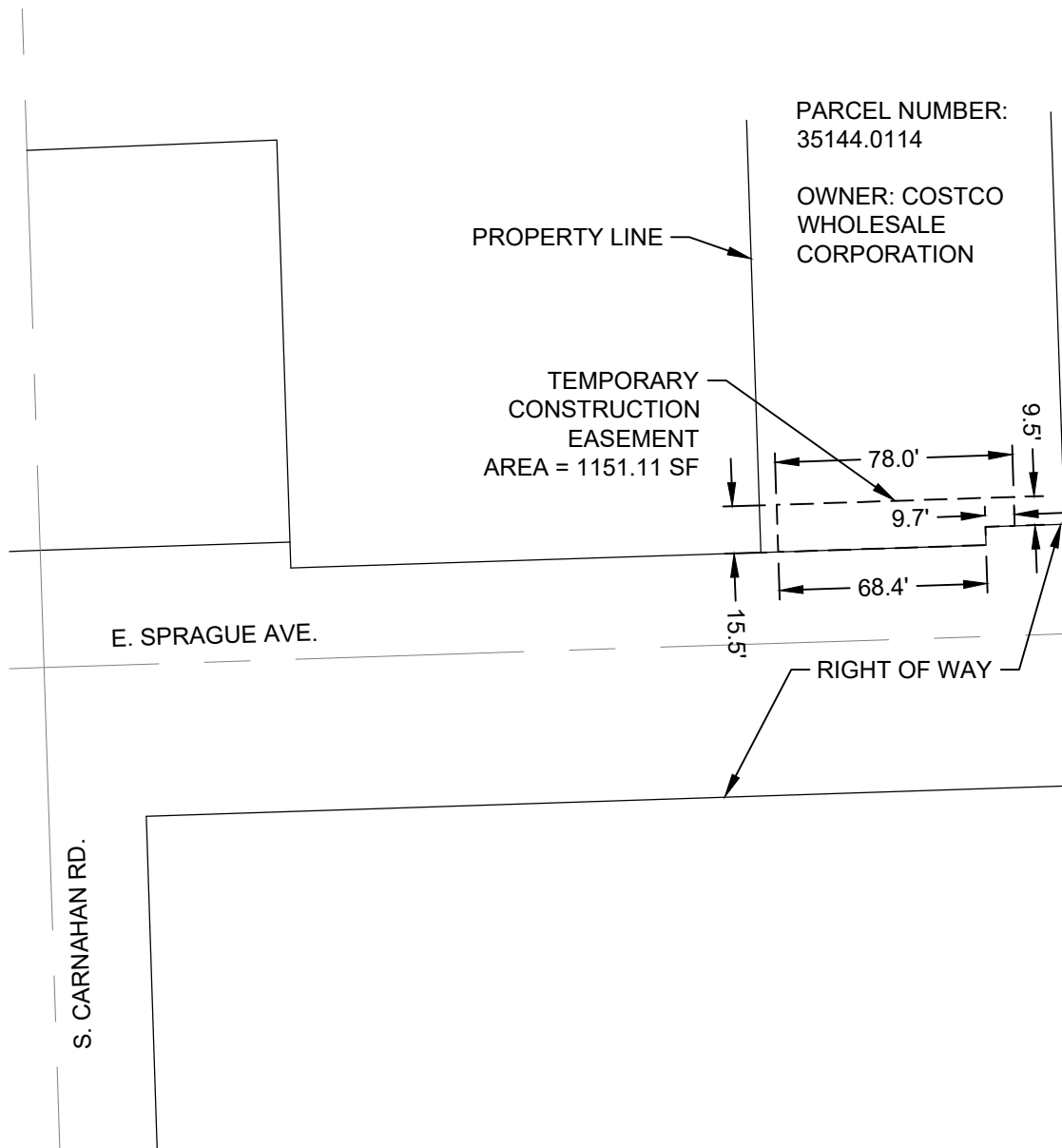
SHEET NO.

1 OF 1

TEMPORARY CONSTRUCTION EASEMENT EXHIBIT



SCALE: 1"=60'



10 N. Post Street, Suite 500
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LOCATION: S CARNAHAN RD AND E SPRAGUE AVE, WESTBOUND
SPOKANE, WA

CLIENT: SPOKANE TRANSIT AUTHORITY

DATE:

10/25/2023

PROJECT NO.

232007

SHEET NO:

1 OF 1

EXHIBIT B
TCE AREA

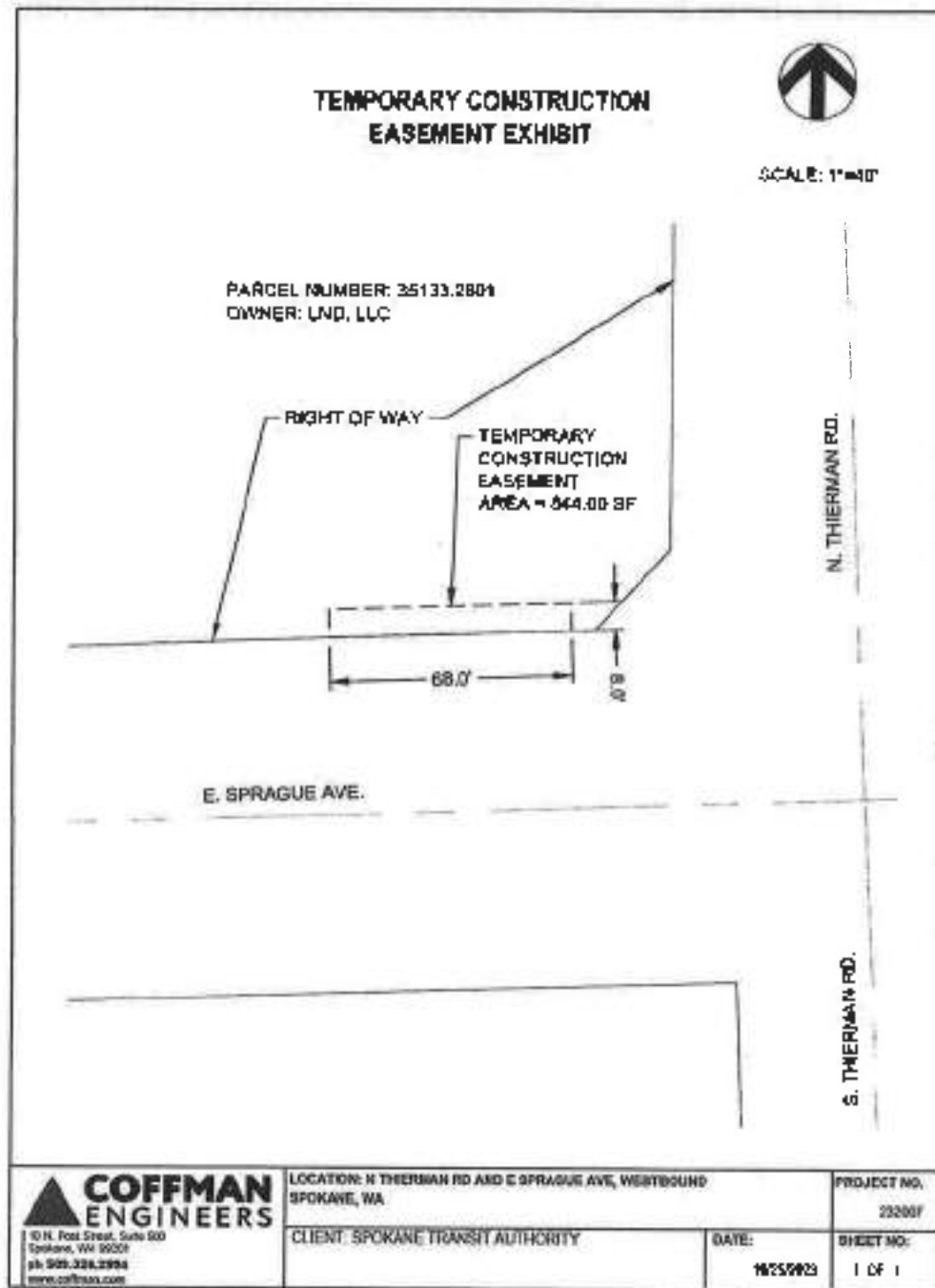


EXHIBIT A

