



**This is not an order.**

<b>INVITATION TO BID NUMBER (ITB)</b>	<b><i>Return this bid to the issuing office below</i></b>
<p align="center"><b>16068</b> <b>Fabricated Steel Module Structure</b></p>	<p align="center">Attention – Althea Clapp, Procurement Manager Alaska Energy Authority (AEA) or (Authority) 813 West Northern Lights Blvd. Anchorage, AK 99503-2495 <a href="mailto:aclapp@aidea.org">aclapp@aidea.org</a>, Ph. 907-771-3018 Fax 907-771-3044</p>

Bid 16068 is issued according to 3AAC 109 Procurement for Alaska Energy Authority (AEA) managed grants on behalf of the Native Village of Kipnuk. Funding for this procurement is from a State of Alaska grant AR-52212-17.

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**Invitation to Bid Schedule**

<b>Bid Issued</b>	<b>October 12, 2015</b>
<b>Pre-bid Conference</b>	<b>None</b>
<b>Bid Opening</b>	ITB shall be publically opened at, <b>2:00 p.m. November 3, 2015</b> , in the Dogwood Conference Room.

**Important**

Interested firms shall register online to receive addenda and other information at <http://www.aideaaeprocmement.org/>

AEA may provide periodic e-mail notices regarding addenda or clarifications regarding this bid to those companies who reply.

All addenda and other notices will be posted and available at <http://www.aidea.org/> “Quick Links” Procurement Opportunities.

**Bid Submittals**

- Appendix C – Bid Schedule
- Appendix D – Debarment Certification
- Insurance certificate shall be required from the successful Bidder only.

## Instructions to Bidders

### 1. Invitation to Bid (ITB) Review

Bidders shall carefully review this ITB for defects and questionable or objectionable material. Bidders' comments concerning defects and questionable or objectionable material in the ITB must be made in writing and received by the purchasing authority at least five (5) days before the bid opening date. This will allow time for an addendum if one is required. It will also help prevent the opening of a defective bid that will be rejected, and risk exposure of Bidders' prices. All correspondence will be addressed to the purchasing authority listed on the front of this ITB.

### 2. Bid Forms/Submittals

Bidders shall use and return the forms supplied with this invitation in submitting their bid. A photocopied bid can be submitted. **Bidders must return a signed copy of the Bid Schedule, and any/all required support documentation requested in this ITB.** The apparent low bidder may be required to provide additional documentation after bid opening and prior to award to assure compliance with all terms and conditions of the solicitation.

### 3. Minimum Qualifications - The Authority requires the following:

- a) Bidders must have 3-years prior experience producing the commodity described herein.
- b) Bidders must have staff with extensive experience in fabricating modules. If asked, Bidder must be able to provide examples of 3-projects similar to the one described herein.
- c) Bidders must have a fabrication facility with adequate space and appropriate equipment as required to perform the work. The Authority may inspect the bidders shop after the bid opening and prior to award in order to verify Bidder qualifications.
- d) A Bidder's inability to provide the requested documentation related to proof of their ability to meet the vendor requirements may result in their bid being declared non-responsive.

### 4. Submitting Bids

Envelopes containing bids must be sealed, marked, and addressed as shown below. **DO NOT FAX YOUR BID.** Envelopes with ITB numbers annotated on the outside will not be opened until the scheduled date and time. Hand carried bids should be delivered to the receptionist at the front desk or to the Procurement Manager for processing. Failure to correctly submit a bid may result in it being unopened or rejected and returned to the bidder.

#### **Bidder's return Address**

**Alaska Energy Authority  
813 West Northern Lights Blvd  
Anchorage, Alaska 99503  
ATTN: Althea Clapp, Procurement Manager  
ITB 16068 Fabricated Steel Module Structure  
Opening Date: 2:00 November 3, 2015**

### 5. Modification and Withdrawal of Bids

A bidder may, without prejudice, modify or withdraw its bid by written request provided that such request is received by the Authority prior to the bid opening date and time.

## **6. Late Bids**

Late bids are bids received after the time and date set for receipt of the bids; and late bids will not be accepted.

## **7. Offer Period**

Bids must remain valid for a period of 90-days unless otherwise specified in the Bid Schedule.

## **8. Firm, Unqualified and Unconditional Offer**

Bidders must provide enough information with their offer to constitute a definite, firm, unqualified and unconditional offer. To be responsive an offer must constitute a definite, firm, unqualified and unconditional offer to meet all of the material terms of the ITB. Material terms are those which could affect price, quantity, quality, or delivery. Also included as material terms are those which are clearly identified in the ITB and which, for reasons of policy, must be complied with at risk of bid rejection for non-responsiveness.

## **9. Prices**

The bidder shall state prices in the units of issue on this ITB. Prices quoted for commodities must be in U.S. funds and include applicable federal duty, brokerage fees, packaging, and transportation cost to the F.O.B. point so that upon transfer of title the commodity can be utilized without further cost. Prices quoted for services will be quoted in U.S. funds and include applicable federal duty, brokerage fee, packaging, and transportation cost so that the services can be provided without further cost. Prices quoted in bids must be exclusive of federal, state, and local taxes. If the bidder believes that certain taxes are payable by the Authority, the bidder may list such taxes separately, directly below the bid price for the affected item.

The Authority is exempt from Federal Excise Tax except the following:

- Coal - Internal Revenue Code of 1986 (IRC), Section 4121 - on the purchase of coal;
- "Gas Guzzler" - IRC, Section 4064 - on the purchase of low m.p.g. automobiles, except that police and other emergency type vehicles are not subject to the tax,
- Air Cargo - IRC, Section 4271 - on the purchase of property transportation services by air;
- Air Passenger - IRC, Section 4261 - on the purchase of passenger transportation services by air carriers.

## **10. Extension of Prices**

In case of error in the extension of prices in the bid, the unit prices will govern; in a lot bid, the lot prices will govern,

## **11. Federal Excise Tax**

Federal Excise Tax should not be included in the bid price(s). The Alaska Energy Authority is exempt from Federal Excise Tax.

## **12. Suitable Materials, Etc.**

Unless otherwise specified, all materials, supplies or equipment offered by a bidder must be new per the attached specifications.

## **13. Supporting Information**

The Authority strongly desires that bidders submit all required technical, specification, and other supporting information with their bid, so that a detailed analysis and determination can be made, by the Procurement Manager, that the product offered meets the ITB specifications and that other

requirements of the ITB have been met. However, provided a bid meets the requirements for a definite, firm, and unqualified or unconditional offer, the Authority reserves the right to request supplemental information from the bidder, after the bids have been opened, to ensure that the products offered completely meet the ITB requirements. The requirement for such supplemental information will be at the reasonable discretion of the Authority and may include the requirement that a bidder will provide a sample product(s) or certification of compatibility of accessories or component parts with the specifications so that the Authority can make a first-hand examination and determination.

A bidder's failure to provide this supplemental information or the product sample(s), within the time set by the Authority, will cause the Authority to consider the offer non-responsive and reject the bid.

#### **14. Brand and Model Offered**

Bidders must clearly indicate the brand names and model numbers they intend to provide where required on the bid schedule. The bidder's failure to identify the brand and model offered - if different than what may be required by the specifications - may cause the Authority to consider the offer non-responsive and reject the bid.

#### **15. Annotated Literature**

If product literature is requested bidders must annotate their product literature to identify for the Authority the location of the supporting information for each product specification set out in this ITB. A bidder's failure to comply with this clause, within the time set by the Authority, will cause the Authority to consider the offer non-responsive and reject the bid.

#### **16. Subcontractor(S)**

Within five (5) working days of notice, the apparent low bidder must submit a list of the subcontractors that will be used in the performance of the contract. The list must include the name of each subcontractor and the location of the place of business for each subcontractor.

#### **17. Tax-Exempt Financing**

No public offering or private placement of securities relating to the contracts issued as a result of this ITB may be made. If a bid contemplates the securitization of the Authority's payments, the Authority will reject the offer as non-responsive.

#### **18. Notice of Intent to Award**

After the responses to this ITB have been opened, a tabulation of the bids will be prepared. This tabulation, called a Notice of Intent, serves two purposes. It lists the name of each company or person that offered a bid and the price bid. It also serves as notice of the Authority's intent to award a contract(s) to the bidder(s) indicated. A copy of the Notice of Intent will be sent to each company or person who responded to the ITB. Bidders, identified as the apparent low responsive bidders, are instructed not to proceed until a Purchase Order, Contract Award, Lease, or other form of notice is given by the Procurement Manager. A company or person who proceeds prior to receiving a Purchase Order, Contract Award, Lease, or other form of notice from the Procurement Manager does so without a contract and at his or her own risk.

#### **19. Filing a Protest**

A bidder may protest the award of a contract or the proposed award of a contract for supplies, services, or professional services. The protest must be filed in writing and include the following information: (1) the name, address, and telephone number of the protester; (2) the signature of the protester or the protester's representative; (3) identification of the contracting agency and the solicitation or contract at issue; (4) a detailed statement of the legal and factual grounds of the protest, including copies of relevant documents; and (5) the form of relief requested. Protests will be treated in accordance with AEA Regulations 3 AAC 109.570. A Protest based on alleged improprieties or ambiguities in a solicitation must be filed at least 10 days before the bid date of the bid or proposal, unless a later bid

protest due date is specifically allowed in the solicitation. A Protest based upon alleged improprieties in an award of a contract or a proposed award of a contract must be filed within 10days after a notice.

**20. Order Documents**

Except as specifically allowed under this ITB, an ordering agency will not sign any vendor contract. The Authority is not bound by a vendor contract signed by a person who is not specifically authorized to sign for the Authority under this ITB. The Authority's Contract Award is the only order document that may be used to place orders against the contract(s) resulting from this ITB.

**21. Consolidation of Awards**

Due to high administrative costs associated with processing of purchase orders, a single low bid of \$50 or less may, at the discretion of the Authority be awarded to the next low bidder receiving other awards for consolidation purposes. This paragraph is not subject to the protest terms enumerated in "*INSTRUCTIONS TO BIDDERS*", "*FILING A PROTEST*" above.

**22. Bid Preparation Costs**

The Authority is not liable for any costs incurred by the bidder in bid preparation.

**23. Bid Security**

The bid bond and other security bonds are waived in their entirety for this invitation to bid.

**24. Contact**

The administration of this contract is the responsibility of Althea S. Clapp, Procurement Manager, at the Authority.

## Appendix A - Terms and Conditions

- 1. Compliance**  
In the performance of a contract, the Vendor must comply with all applicable federal, state, and borough regulations, codes, and laws; and be liable for all required insurance, licenses, permits and bonds; and pay all applicable federal, state, and borough taxes.
- 2. Suitable Materials, Etc.**  
Unless otherwise specified, all materials, supplies or equipment offered by a bidder shall be new, unused, and of the latest edition, version, model or crop and of recent manufacture.
- 3. No Assignment or Delegation**  
The Vendor may not assign or delegate this contract, or any part of it, or have any right to any money to be paid under it, except with the written consent of the Contracting Officer. Conditioned assignments will be rejected.
- 4. Force Majeure**  
(Impossibility to perform) The Vendor is not liable for the consequences of any failure to perform, or default in performing, any of its obligations under this Agreement, if that failure or default is caused by any unforeseeable Force Majeure, beyond the control of, and without the fault or negligence of, the Vendor. For the purposes of this Agreement, Force Majeure will mean war (whether declared or not); revolution; invasion; insurrection; riot; civil commotion; sabotage; military or usurped power; lightning; explosion; fire; storm; drought; flood; earthquake; epidemic; quarantine; strikes; acts or restraints of governmental authorities affecting the project or directly or indirectly prohibiting or restricting the furnishing or use of materials or labor required; inability to secure materials, machinery, equipment or labor because of priority, allocation or other regulations of any governmental authorities.
- 5. Contract Extension**  
The Authority and the successful Vendor agree: (1) that any holding over of the contract excluding any exercised renewal options will be considered as a month-to-month extension, and all other terms and conditions shall remain in full force and effect; and (2) to provide written notice to the other party of the intent to cancel such month-to-month extension at least thirty (30) days before the desired date of cancellation.
- 6. Default**  
In case of default by the Vendor, for any reason whatsoever, the Authority may procure the goods or services from another source and hold the Vendor responsible for any resulting excess cost and may seek other remedies under law or equity.
- 7. Disputes**  
Any dispute arising out of this agreement shall be resolved under the laws of Alaska. Any appeal of an administrative order or any original action to enforce any provision of this agreement or to obtain any relief from or remedy in connection with this agreement may be brought only in the superior court for the State of Alaska.
- 8. Severability**  
If any provision of the contract is declared by a court to be illegal or in conflict with any law, the validity of the remaining terms and provisions will not be affected; and, the rights and obligations of the parties will be construed and enforced as if the contract did not contain the particular provision held to be invalid.

**9. Continuing Obligation of Vendor**

Notwithstanding the expiration date of a contract resulting from this ITB, the Vendor is obligated to fulfill its responsibilities until warranty, guarantee, maintenance and parts availability requirements have completely expired.

**10. Human Trafficking**

By signature on their bid, the bidder certifies that the bidder is not established and headquartered or incorporated and headquartered in a country recognized as Tier 3 in the most recent United States Department of State's Trafficking in Persons Report. The most recent United States Department of State's Trafficking in Persons Report are located at the following website: <http://www.state.gov/g/tip/>; and failure to comply with this requirement will cause the state to reject the bid as non-responsive, or cancel the contract.

**11. Payment for State Purchases**

Payment for agreements under \$500,000 for the undisputed purchase of goods or services provided to a state agency will be made within 30 days of the receipt of a proper billing or the delivery of the goods or services to the location(s) specified in the agreement, whichever is later. A late payment is subject to 1.5% interest per month on the unpaid balance. Interest will not be paid if there is a dispute or if there is an agreement that establishes a lower interest rate or precludes the charging of interest.

**12. Shipping Damage**

The Authority will not accept or pay for damaged goods. The Vendor must file all claims against the carrier(s) for damages incurred to items in transit from the point of origin to the F.O.B. point. The Authority will provide the Vendor with written notice when damaged goods are received. The Authority will deduct the cost of the damaged goods from the invoice prior to payment. The Vendor must file all claims against the carrier(s) for reimbursement of the loss.

**13. Indemnification**

The Vendor shall indemnify, hold harmless, and defend the contracting agency from and against any claim of, or liability for error, omission or negligent act of the Vendor under this agreement. The Vendor shall not be required to indemnify the contracting agency for a claim of, or liability for, the independent negligence of the contracting agency. If there is a claim of, or liability for, the joint negligent error or omission of the Vendor and the independent negligence of the Contracting agency, the indemnification and hold harmless obligation shall be apportioned on a comparative fault basis. "Vendor" and "Contracting agency", as used within this and the following article, include the employees, agents and other Vendors who are directly responsible, respectively, to each. The term "independent negligence" is negligence other than in the Contracting agency's selection, administration, monitoring, or controlling of the Vendor and in approving or accepting the Vendor's work.

**14. Insurance**

Without limiting Vendor's indemnification, it is agreed that Vendor shall purchase at its own expense and maintain in force at all times during the performance of services under this agreement the following policies of insurance. Where specific limits are shown, it is understood that they shall be the minimum acceptable limits. If the Vendor's policy contains higher limits, the Authority shall be entitled to coverage to the extent of such higher limits. Certificates of Insurance must be furnished to the contracting officer prior to beginning work and must provide for a notice of cancellation, non-renewal, or material change of conditions in accordance with policy provisions. Failure to furnish satisfactory evidence of insurance or lapse of the policy is a material breach of this contract and shall be grounds for termination of the Vendor's services. All insurance policies shall comply with, and be issued by insurers licensed to transact the business of insurance under AS 21.

**Proof of insurance is required for the following:**

Workers' Compensation Insurance: The Vendor shall provide and maintain, for all employees engaged in work under this contract, coverage as required by AS 23.30.045, and; where applicable, any other statutory obligations including but not limited to Federal U.S.L. & H. and Jones Act requirements. The policy must waive subrogation against the Authority.

Commercial General Liability Insurance: covering all business premises and operations used by the Vendor in the performance of services under this agreement with minimum coverage limits of \$300,000 combined single limit per occurrence.

Commercial Automobile Liability Insurance: covering all vehicles used by the Vendor in the performance of services under this agreement with minimum coverage limits of \$300,000 combined single limit per occurrence.

Failure to supply satisfactory proof of insurance within the time required will cause the Authority to declare the bidder non-responsible and to reject the bid.

**15. Insurance Certificate**

Shall name the Authority and the grantee as certificate holders and reference the contract number.

**16. Delivery Confirmation**

Bidders must obtain confirmation from manufacturers that the items offered are scheduled for production in sufficient time to meet the scheduled delivery dates.

**17. Billing Instructions**

Invoices will be addressed Alaska Energy Authority (AEA) 813 West Northern Lights Boulevard, Anchorage, AK 99503-2495; or emailed to [aeapayables@aidea.org](mailto:aeapayables@aidea.org). Vendor will reference the contract number on all invoices and correspondence. It is customary for AEA to make payment within 30-days of receipt of the merchandise or service, and the Vendor's invoice. Direct all billing questions to the Contracting Officer.

**18. Alterations**

The Contracting Office must approve in writing any Vendor alterations to the specifications prior to the changes. The Authority will not pay for alterations that are not pre-approved in advance and in writing by the Contracting Officer.

**19. Liquidated Damages**

It is expressly understood and agreed that in case of the failure on the part of the Vendor, for any reason, except with the written consent of the Authority, to furnish materials and the doing and performance of the work before the date(s) stipulated in the bid schedule, the Authority shall have the right to deduct from any money due or which may become due the Vendor, or if no money shall be due, the Authority shall have the right to recover the amount stipulated below, such deduction to be made, or sum to be recovered, not as a penalty but as liquidated damages. The amount of liquidated damages shall be **Seven Hundred dollars (\$700.00) per day**, for each calendar day elapsing between the time stipulated for delivery and the actual date of delivery in accordance with the terms hereof.

**20. Packaging**

The cost of all packaging must be included in the price bid. All packaging must be new and suitable for shipment and short-term warehouse storage.



**21. Workmanship & Materials**

All work shall be performed in a thorough and competent manner and in accordance with current industry practices. The Vendor is responsible for the quality of the finished item. The Authority will reject any item that does not meet the specifications and return them to the Vendor. Vendors shall accept all rejected items at the Vendor's risk and expense.

**22. Contract Cancellation**

The Authority reserves the right to cancel any contract awarded as a result of this solicitation if; 1) the Vendor fails to properly perform the duties set out herein, 2) due to budget/funding issues, or 3) at its convenience upon 60 calendar days written notice to the Vendor. In the event of cancellation at its convenience, the Authority will pay for any disassembly and shipping charges necessary to remove the machine and return it to the nearest in State dealer.

**23. Brand and Model Offered**

Unless otherwise specified, when brand names and model numbers identify the type and quality of the goods desired, bidders must clearly indicate the brand names and model numbers they intend to provide. The bidder's failure to identify the brand and model offered will cause the Authority to consider the offer non-responsive and reject the bid.

**24. Order Documents**

Except as specifically allowed under this ITB, an ordering agency will not sign any vendor contract. The Authority is not bound by a vendor contract signed by a person who is not specifically authorized to sign for the Authority under this ITB. The Authority Contract Award is the only order document that may be used to place orders against the contract(s) resulting from this ITB.

**25. Compliance with ADA**

Services or activities furnished to the general-public on behalf of the Authority must be fully accessible. This is intended to ensure that agencies are in accordance with 28 CFR Part 35 Section 35.130 and that services, programs or activities furnished to the public through a contract do not subject qualified individuals with a disability to discrimination based on the disability.

The Authority complies with Title II of the Americans with Disabilities Act of 1990. Individuals with disabilities who may need auxiliary aids, services, and/or special modifications to participate in this procurement should contact Enterprise Technology Services at one of the following numbers to make any necessary arrangements.

**Telephone: 907-465-5758**

**Fax: 907-465-3450**

**TDD:907465-5745**

## APPENDIX B. SPECIFICATIONS AND DRAWINGS

Kipnuk Power Systems Upgrade

Drawings A1 – A5

Drawing S1

Drawings S3 – S8

Drawing S11

Drawing MS1 – MS3

Drawing MP1 – MP2

CODE ANALYSIS 2009 EDITION INTERNATIONAL BUILDING CODE

OCCUPANCY CLASSIFICATION		REF: IBC-2009, SEC. 306.2
GROUP F-1: FACTORY INDUSTRIAL MODERATE HAZARD - ELECTRIC GENERATION PLANT		
TYPE OF CONSTRUCTION		REF: IBC-2009, TABLE 601
TYPE V-B (NON-RATED)		REF: IBC-2009, SEC. 602.5
BUILDING HEIGHTS AND AREAS		REF: IBC-2009, TABLE 503
ALLOWED	40'-0" 1 STORY 8,500 S.F.	PROVIDED: 15'-0" 1 STORY 952 S.F.
FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS		REF: IBC-2009, TABLE 601
STRUCTURAL FRAME	0 HR BEARING WALLS 0 HR INTERIOR PARTITIONS 0 HR FLOOR 0 HR ROOF 0 HR	
FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS		REF: IBC-2009, TABLE 602
EXTERIOR WALLS	10' ≤ X ≤ 30' 0 HR	
FIRE PROTECTION SYSTEM		REF: IBC-2009, SEC. 903.2.4
FIRE PROTECTION NOT REQUIRED. WATER MIST FIRE SUPPRESSION SYSTEM PROVIDED (SEE MECHANICAL).		
OCCUPANT LOAD		REF: IBC-2009, TABLE 1004.1.1
MECHANICAL/STORAGE	= 300 S.F./PERSON 952 S.F./300 S.F. PER OCCUPANT = 3 OCCUPANTS	
MEANS OF EGRESS - TRAVEL DISTANCE		REF: IBC-2009, TABLE 1016.1
REQUIRED	200' PROVIDED 25'	

ARCHITECTURAL GENERAL NOTES:

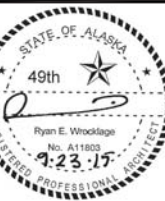
- 1) STANDARD MODULAR POWER PLANT DESIGN. SEE CIVIL/MECHANICAL SITE PLANS FOR SPECIFIC LOCATION AND LAYOUTS. PROVIDE SEPARATION TO PROPERTY BOUNDARIES IN ACCORDANCE WITH CODE ANALYSIS.
- 2) DRAWINGS SHOW MODULE INSTALLED ON TYPICAL FOUNDATION. STRUCTURE DESIGNED FOR INSTALLATION ON PILING TO MEET SITE CONDITIONS.
- 3) FINISH GRADE TO SLOPE DOWN 6 INCHES MINIMUM WITHIN 10 FEET OF BUILDING PERIMETER TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING.
- 4) DO NOT BLOCK OR OBSTRUCT ACCESS, REQUIRED PARKING AREAS, OR REQUIRED EGRESS FROM NEIGHBORING FACILITIES. PROVIDE TEMPORARY BARRICADES OR OTHER FORMS OF PROTECTION TO PROTECT EMPLOYEES, RESIDENTS, AND VISITORS FROM INJURIES DURING CONSTRUCTION ACTIVITIES
- 5) PROJECT MANAGER SHALL BE RESPONSIBLE FOR ALL BUILDING PERMITS, LETTERS OF NON-OBJECTION, UTILITY SERVICES AND APPLICATIONS AS REQUIRED. PROJECT MANAGER OR CONSTRUCTION MANAGER TO BE RESPONSIBLE FOR ALL REQUIRED SAFETY PRECAUTIONS, METHODS AND TECHNIQUES.
- 6) PROVIDE A COMPLETE AND OPERATIONAL FACILITY. ALL WORK TO BE IN ACCORDANCE WITH CURRENT APPROVED EDITIONS OF THE IBC, IMC, IFC, AND NEC INCLUDING STATE OF ALASKA AMENDMENTS.
- 7) SEE SHEET A5 FOR DESCRIPTION OF FIELD INSTALLED ROOF SYSTEM.
- 8) INSULATE ALL WALLS, FLOORS, AND CEILINGS WITH HIGH TEMPERATURE MINERAL FIBER ACOUSTICAL FIRE BATT INSULATION, MIN R VALUE 4 PER INCH, MIN 2000F MELTING TEMP. ROXUL AFB OR EQUAL. FILL ALL PANEL VOIDS OR PROVIDE THICKNESS AS INDICATED ON DRAWINGS. MECHANICALLY FASTEN FLOOR INSULATION TIGHT TO FLOOR.
- 9) UPON COMPLETION OF FABRICATION ROUND ALL CORNERS AND GRIND EDGES SMOOTH AND PAINT ALL INTERIOR AND EXTERIOR EXPOSED STEEL. PERFORM ALL PAINTING IN A WARM DRY ENVIRONMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS INCLUDING DRYING TIME TO RE-COAT.
- 10) SANDBLAST EXTERIOR SURFACE TO SSPC-SP-10. PRIME WITH ONE COAT OF REINFORCED INORGANIC ZINC PRIMER, DEVOE CATHA-COAT 302, NO SUBSTITUTES, COLOR GREEN, TO 3 MILS DRY FILM THICKNESS. COVER WITH TWO COATS OF EPOXY, DEVOE BAR-RUST 236, NO SUBSTITUTES, TO 12 MILS DRY FILM THICKNESS. FIRST COAT COLOR GRAY, SECOND COAT COLOR WHITE.
- 11) FINISH EXTERIOR WALLS AND SKIDS (ALL EXPOSED VERTICAL EXTERIOR SURFACES) WITH ONE COAT OF ALIPHATIC URETHANE ENAMEL, DEVOE DEVTHANE 389, NO SUBSTITUTES, COLOR WHITE, TO 3 MILS DRY FILM THICKNESS.
- 12) SANDBLAST INTERIOR SURFACE TO SSPC-SP-6. PRIME AND FINISH WITH TWO COATS OF EPOXY, SHERWIN WILLIAMS MACROPOXY 646, NO SUBSTITUTES, TO 8 MILS TOTAL DRY FILM THICKNESS. CEILING COLOR WHITE. WALL AND FLOOR COLOR STRUCTURAL GRAY 4031. NOTE THAT FIRST COAT ON WALLS AND FLOOR MAY BE WHITE.



**STATE OF ALASKA, AIDEA/AEA**  
**RURAL POWER SYSTEM UPGRADE**  
 KIPNUK LIGHT PLANT  
 KIPNUK, ALASKA

CONSTRUCTION DOCUMENTS	REVISIONS	DESCRIPTION
	REV DATE	

VERIFY SCALES  
 0 1"  
 THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING



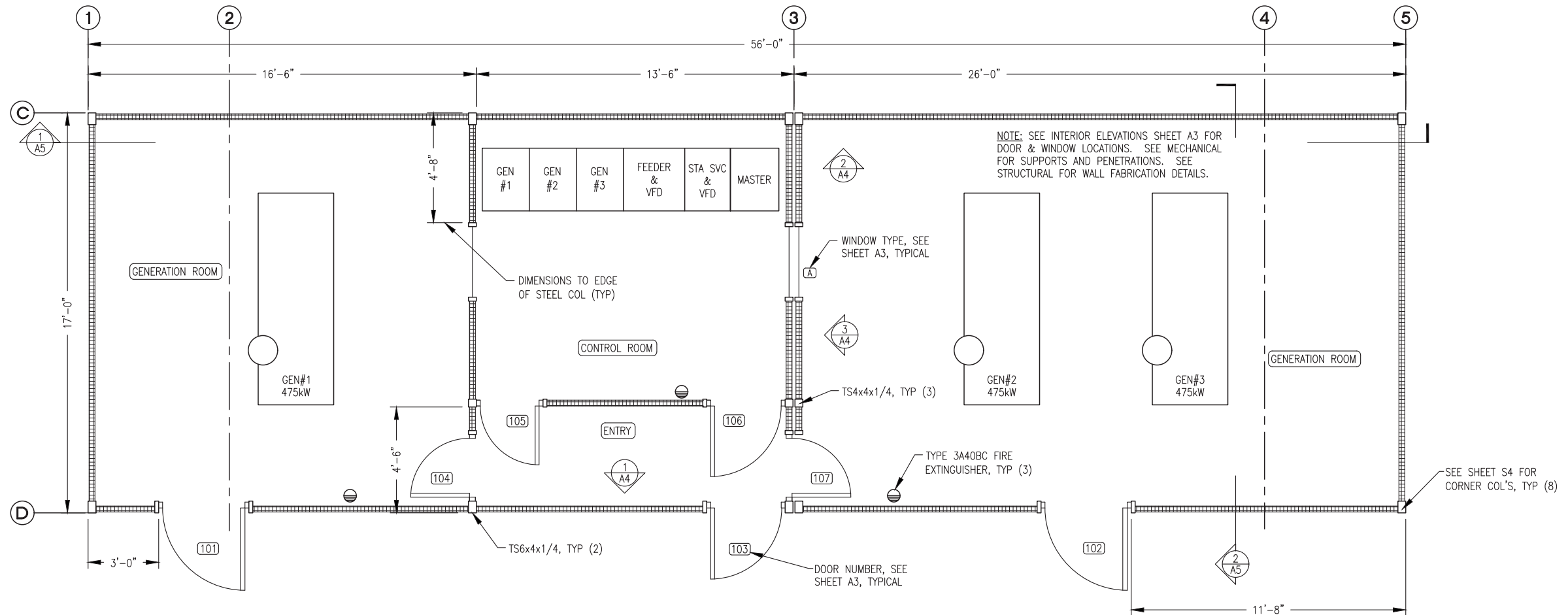
DATE: 09/23/15  
 DRAWN BY: RW  
 CHECKED BY: RW  
 JOB NUMBER:

DRAWING TITLE:  
 MODULE BUILDING  
 CODE ANALYSIS &  
 GENERAL NOTES

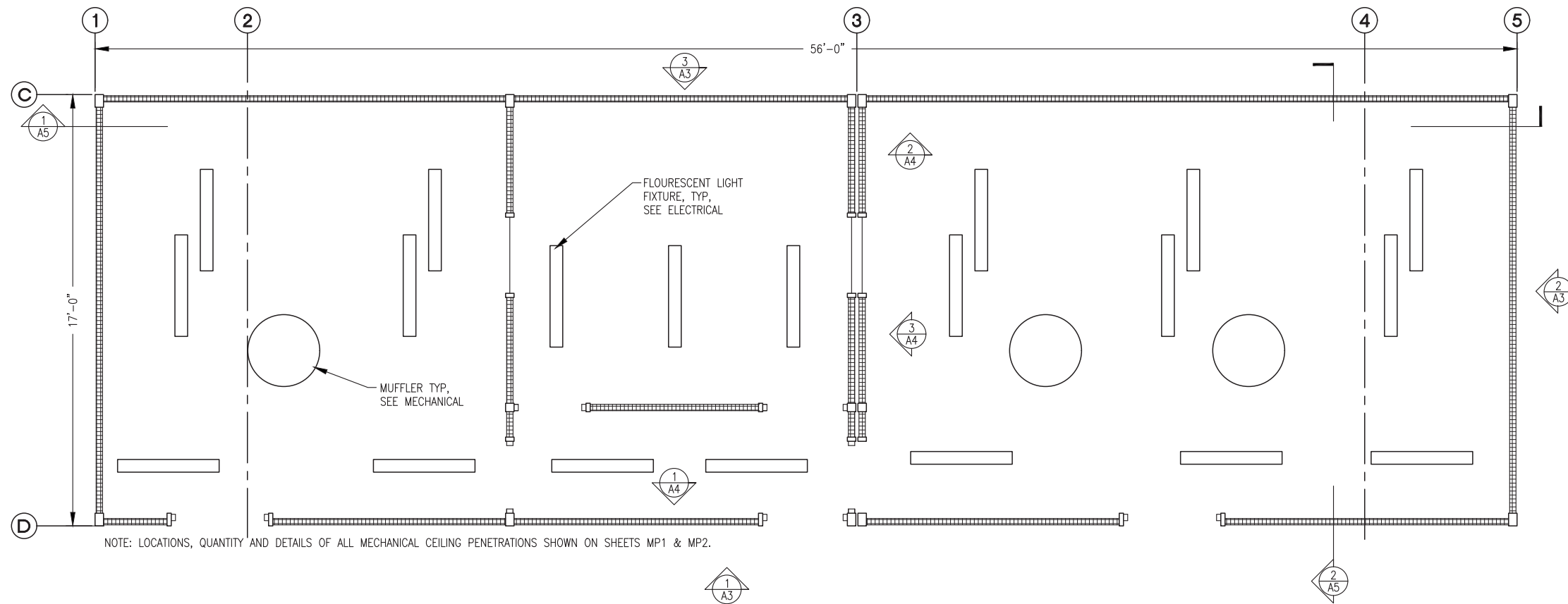
A1

SHEET OF

NOTE: Doors and windows, and all power generation, mechanical and electrical systems are not part of Module bid. See Appendix C, Exclusions.



1 FLOOR PLAN  
3/8"=1'-0"



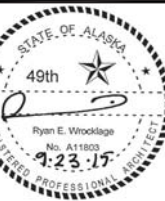
2 REFLECTED CEILING PLAN  
3/8"=1'-0"



STATE OF ALASKA, AIDEA/AEA  
RURAL POWER SYSTEM UPGRADE  
KIPNIUK LIGHT PLANT  
KIPNIUK, ALASKA

CONSTRUCTION DOCUMENTS	
REVISIONS	DESCRIPTION
REV DATE	

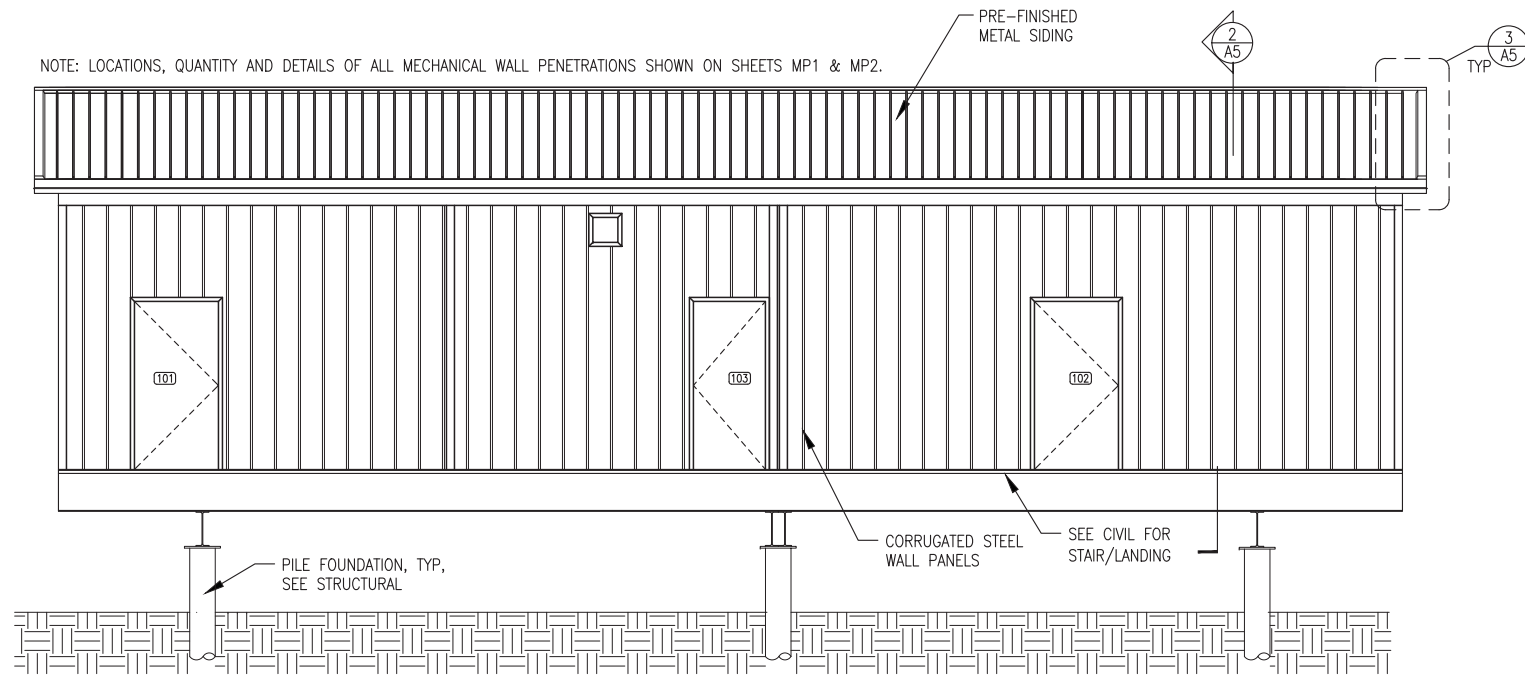
VERIFY SCALES  
0 1" THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING



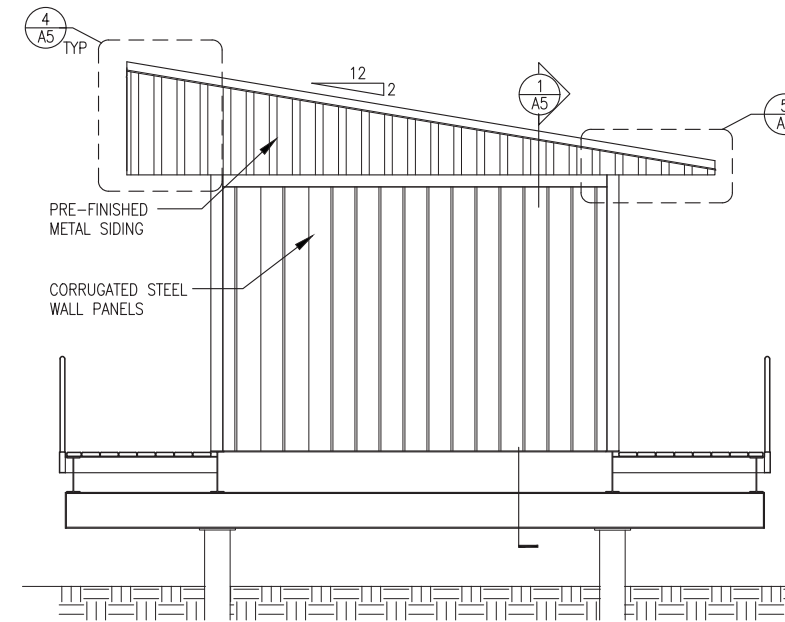
DATE: 09/23/15  
DRAWN BY: RW  
CHECKED BY: RW  
JOB NUMBER:

DRAWING TITLE:  
MODULE BUILDING  
FLOOR PLAN & RCP

A2  
SHEET OF

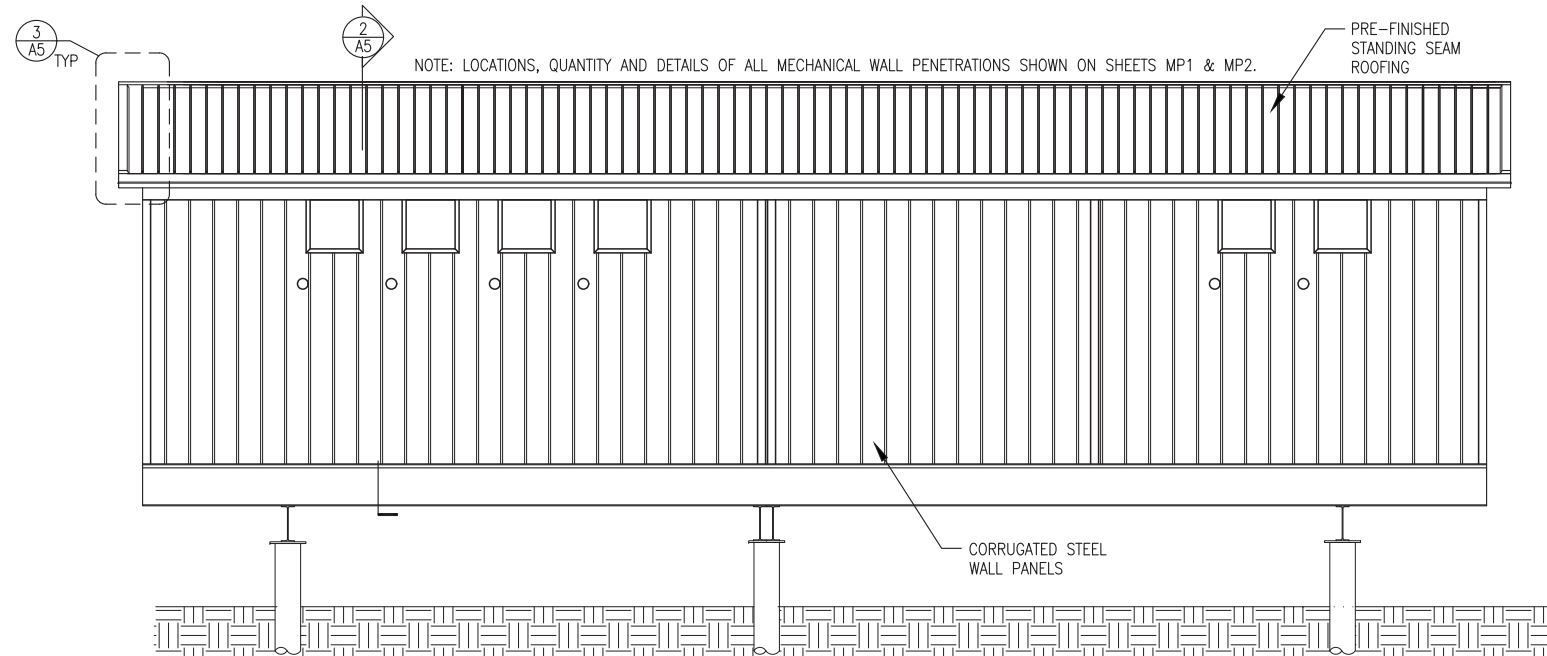


1 FRONT EXTERIOR ELEVATION  
1/4"=1'-0"



2 END EXTERIOR ELEVATION  
1/4"=1'-0"

**NOTE: Foundation, doors and windows, roof system, catwalks and catwalk supports are not part of Module bid. See Appendix C, Exclusions.**



3 BACK EXTERIOR ELEVATION  
1/4"=1'-0"

DOOR CONSTRUCTION						FRAME CONSTRUCTION								
DOOR NO.	WIDTH	HEIGHT	THICKNESS	MATERIAL	CORE	REMARKS	HEAD/JAMB DETAIL	SILL DETAIL	WALL THICKNESS	MATERIAL	TYPE	PROFILE	FIRE RTG	HWR
101	3'-6"	6'-8"	1-3/4"	16 GA. H.M.	INSULATED		4/A3	5/A3	N/A	16 GA. H.M.	WELDED	SINGLE RABBETED	NONE	HW-3
102	3'-6"	6'-8"	1-3/4"	16 GA. H.M.	INSULATED		4/A3	5/A3	N/A	16 GA. H.M.	WELDED	SINGLE RABBETED	NONE	HW-3
103	3'-0"	6'-8"	1-3/4"	16 GA. H.M.	INSULATED	24"x24" RE-LIGHT {2}	4/A3	5/A3	N/A	16 GA. H.M.	WELDED	SINGLE RABBETED	NONE	HW-1
104	2'-6"	6'-8"	1-3/4"	16 GA. H.M.	INSULATED	24"x24" RE-LIGHT {2}	6/A3	5/A3	N/A	16 GA. H.M.	WELDED	SINGLE RABBETED	NONE	HW-2
105	2'-6"	6'-8"	1-3/4"	16 GA. H.M.	INSULATED	24"x24" RE-LIGHT {2}	6/A3	5/A3	N/A	16 GA. H.M.	WELDED	SINGLE RABBETED	NONE	HW-2
106	3'-0"	6'-8"	1-3/4"	16 GA. H.M.	INSULATED	24"x24" RE-LIGHT {2}	6/A3	5/A3	N/A	16 GA. H.M.	WELDED	SINGLE RABBETED	NONE	HW-4
107	2'-6"	6'-8"	1-3/4"	16 GA. H.M.	INSULATED	24"x24" RE-LIGHT {2}	6/A3	5/A3	N/A	16 GA. H.M.	WELDED	SINGLE RABBETED	NONE	HW-2

DOOR HARDWARE:				DOOR FRAME PROFILE:			
<b>HW-1</b>	3 EA HINGES	HAGER	BB1191 4.5 x 4.5NRP x 630	<b>HW-3</b>	3 EA HINGES	HAGER	BB1191 4.5 x 4.5NRP x 630
	1 EA EXIT DEVICE	PRECISION	2108 x 4908AX3 x 630		1 EA EXIT LOCK	SCHLAGE	ND25D x RHODES x 626
	1 EA CORE	BEST	BROWN CONSTRUCTION CORE		1 EA OVERHEAD STOP	ROCKWOOD	OH1004M x US32D
	1 EA DOOR CLOSER	LCN	4040XP x CUSH x AL		1 EA WEATHER STRIP	PEMCO	2891AS x 42 (HEAD)
	1 EA KICK PLATE	ROCKWOOD	K1050 10 x 34 x 630		2 EA WEATHER STRIP	PEMCO	290AS x 80 (SIDE JAMBS)
	1 EA WEATHER STRIP	PEMCO	2891AS x 36 (HEAD)		1 EA THRESHOLD	HAGER	580S x 42
	2 EA WEATHER STRIP	PEMCO	290AS x 80 (SIDE JAMBS)				
	1 EA THRESHOLD	HAGER	580S x 36				
<b>HW-2</b>	3 EA HINGES	HAGER	BB1191 4.5 x 4.5 x 630	<b>HW-4</b>	3 EA HINGES	HAGER	BB1191 4.5 x 4.5 x 630
	1 EA EXIT DEVICE	PRECISION	2108 x 4908AX3 x 630		1 EA EXIT DEVICE	PRECISION	2108 x 4908AX3 x 630
	1 EA DOOR CLOSER	LCN	4040XP x CUSH x AL		1 EA DOOR CLOSER	LCN	4040XP x CUSH x AL
	1 EA KICK PLATE	ROCKWOOD	K1050 10 x 28 x 630		1 EA KICK PLATE	ROCKWOOD	K1050 10 x 34 x 630
	1 EA MOP PLATE	ROCKWOOD	K1050 10 x 29 x 630		1 EA MOP PLATE	ROCKWOOD	K1050 10 x 35 x 630
	1 EA SOUND SEAL	PEMCO	2891AS x 30 (HEAD)		1 EA SOUND SEAL	PEMCO	2891AS x 36 (HEAD)
	2 EA SOUND SEAL	PEMCO	290AS x 80 (SIDE JAMBS)		2 EA SOUND SEAL	PEMCO	290AS x 80 (SIDE JAMBS)
	1 EA THRESHOLD	HAGER	580S x 30		1 EA THRESHOLD	HAGER	580S x 36

**NOTES:**

{1} ALL DOORS FURNISHED WITH TOPS INVERTED, CAULKED, AND SEALED.

{2} INSTALL 24"x24" INSULATED RE-LIGHT WITH TWO PANES OF LAMINATED SAFETY GLASS IN EACH DOOR PANEL.

{3} DOORS AND DOOR FRAMES GALVANIZED AND FACTORY PRIMED. HOLLOW METAL WINDOW FRAMES FACTORY PRIMED. SPRAY FINISH ALL DOORS AND FRAMES WITH TWO COATS OF SHERWIN WILLIAMS MACROPOXY 646, NO SUBSTITUTES, COLOR STRUCTURAL GRAY 4031.

**STATE OF ALASKA, AIDEA/AEA**  
**RURAL POWER SYSTEM UPGRADE**  
KIPNUK LIGHT PLANT  
KIPNUK, ALASKA

UMIAQ  
Lantron Inc  
CGG

CONSTRUCTION DOCUMENTS

REVISIONS	REV	DATE	DESCRIPTION

VERIFY SCALES  
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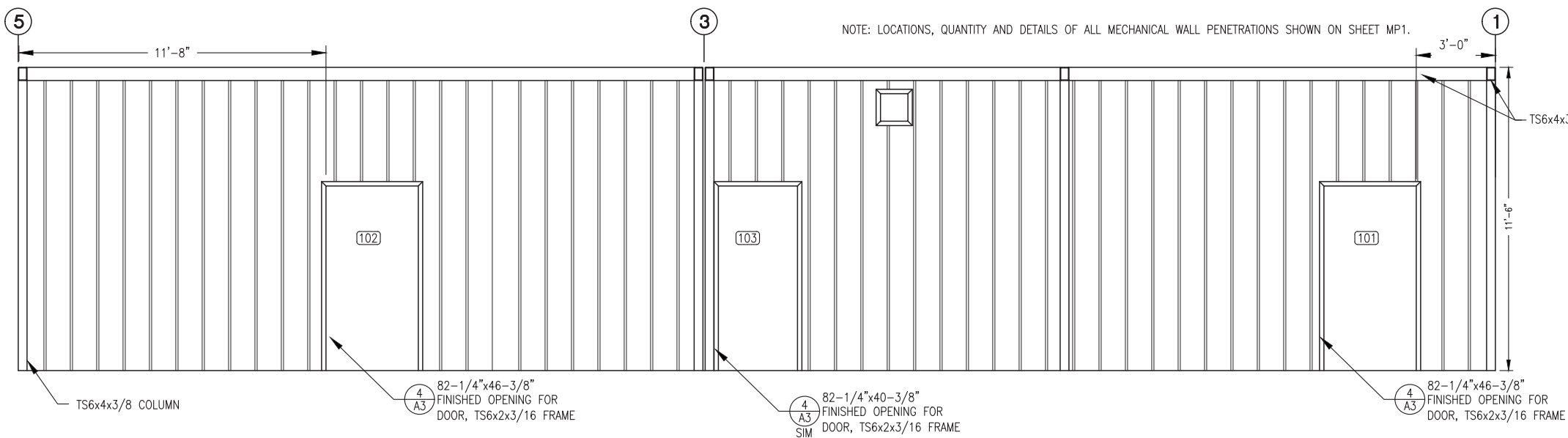
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DRAWN BY: RW  
CHECKED BY: RW  
JOB NUMBER:

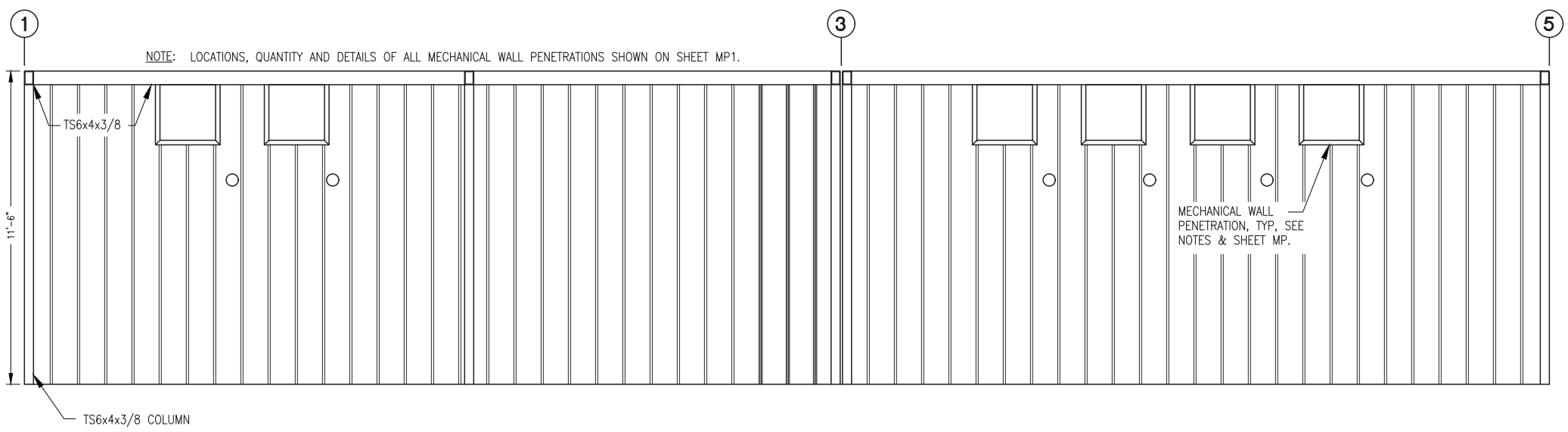
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MODULE BUILDING  
EXTERIOR ELEVATIONS  
DOOR & WINDOW  
SCHEDULE

**A3**  
SHEET OF

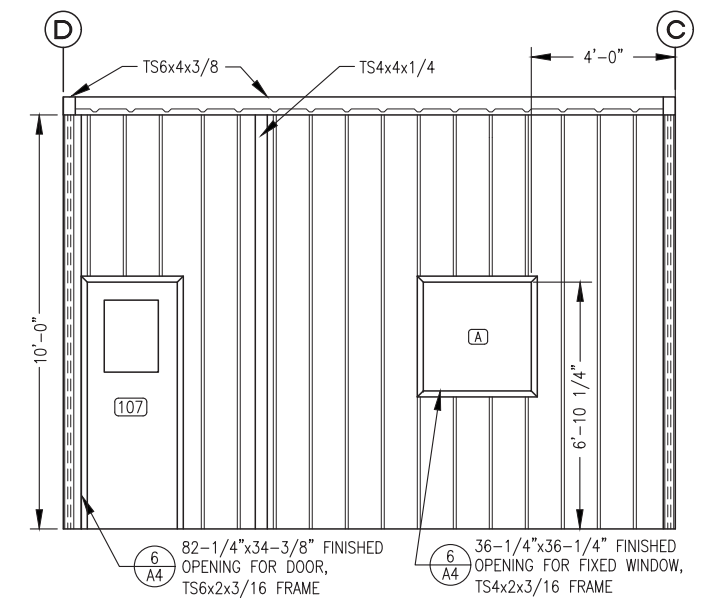


1 FRONT WALL INTERIOR ELEVATION  
3/8"=1'-0"

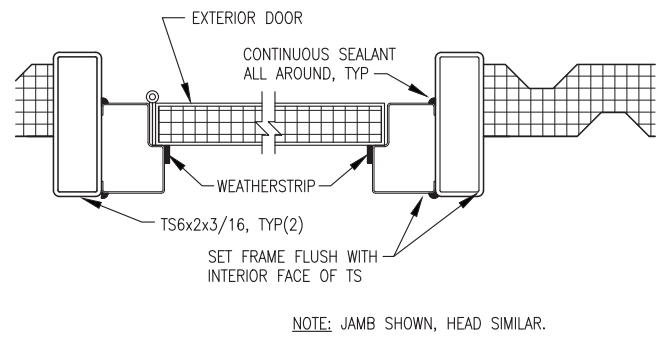
**NOTE:** Doors and windows are not part of Module bid. See Appendix C, Exclusions.



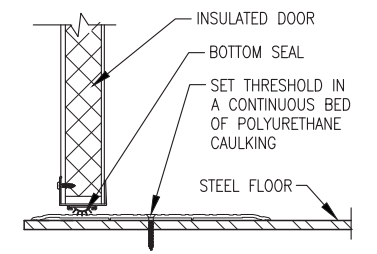
2 PARTIAL GENERATOR ROOM BACK WALL INTERIOR ELEVATION  
3/8"=1'-0"



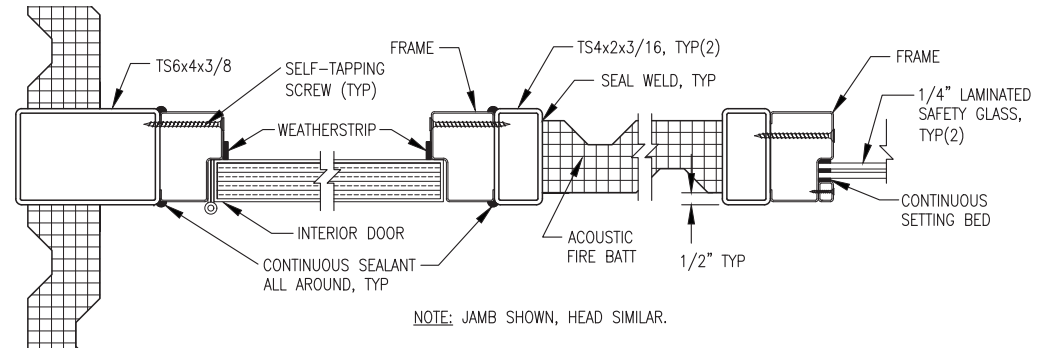
3 CONTROL ROOM WALL INTERIOR ELEVATION  
3/8"=1'-0"



4 TYPICAL EXTERIOR DOOR JAMB/HEAD  
3"=1'-0"



5 TYPICAL DOOR THRESHOLD  
NO SCALE



6 INTERIOR DOOR AND WINDOW JAMB/HEAD  
3"=1'-0"

**UMIAQ**  
ARCHITECTS

**JCG**  
LABTECH Inc.  
ARCHITECTS

**STATE OF ALASKA, AIDEA/AEA**  
**RURAL POWER SYSTEM UPGRADE**  
KIPNUK LIGHT PLANT  
KIPNUK, ALASKA

REVISIONS	REV	DATE	DESCRIPTION

VERIFY SCALES  
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THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING

STATE OF ALASKA  
49th  
Ryan E. Woodkage  
No. A11803  
4.23.17  
REGISTERED PROFESSIONAL ARCHITECT

DATE: 09/23/15  
DRAWN BY: RW  
CHECKED BY: RW  
JOB NUMBER:

DRAWING TITLE:  
MODULE BUILDING  
INTERIOR ELEVATIONS  
DOOR & WINDOW DETAILS

**A4**

SHEET OF

REVISIONS	REV. DATE	DESCRIPTION

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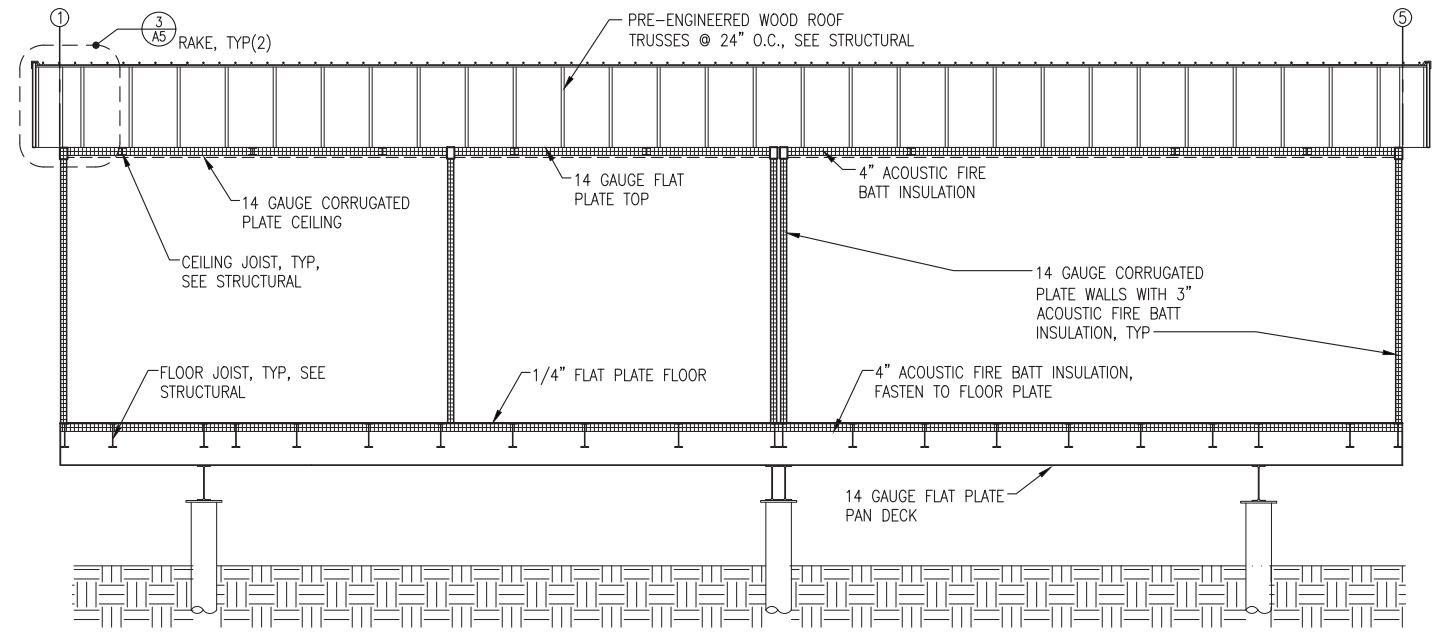


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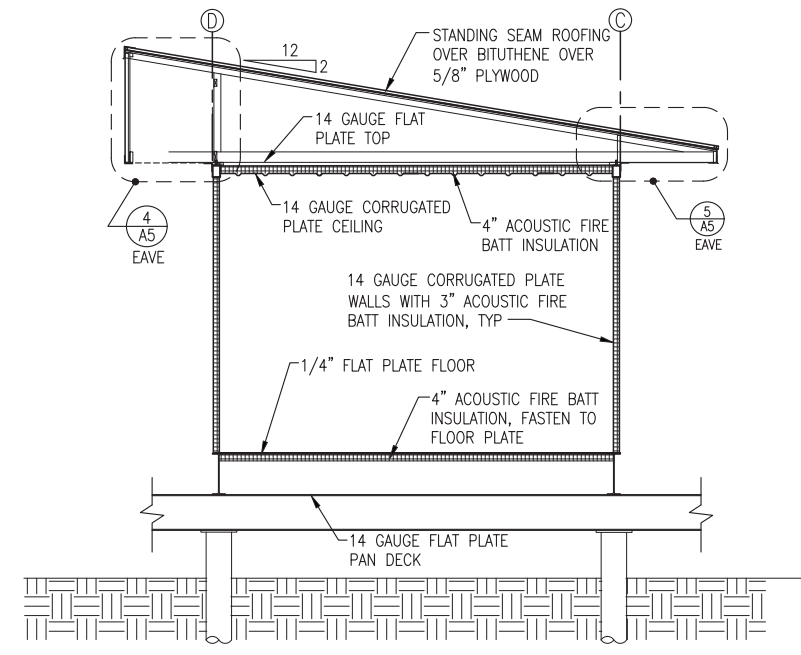
DRAWING TITLE:  
MODULE BUILDING SECTIONS & DETAILS

A5

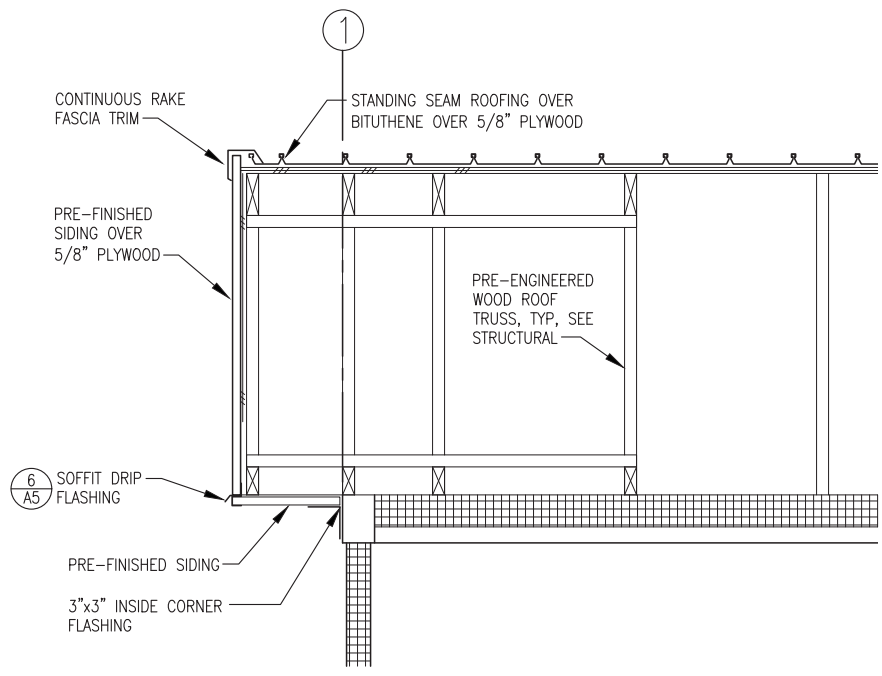
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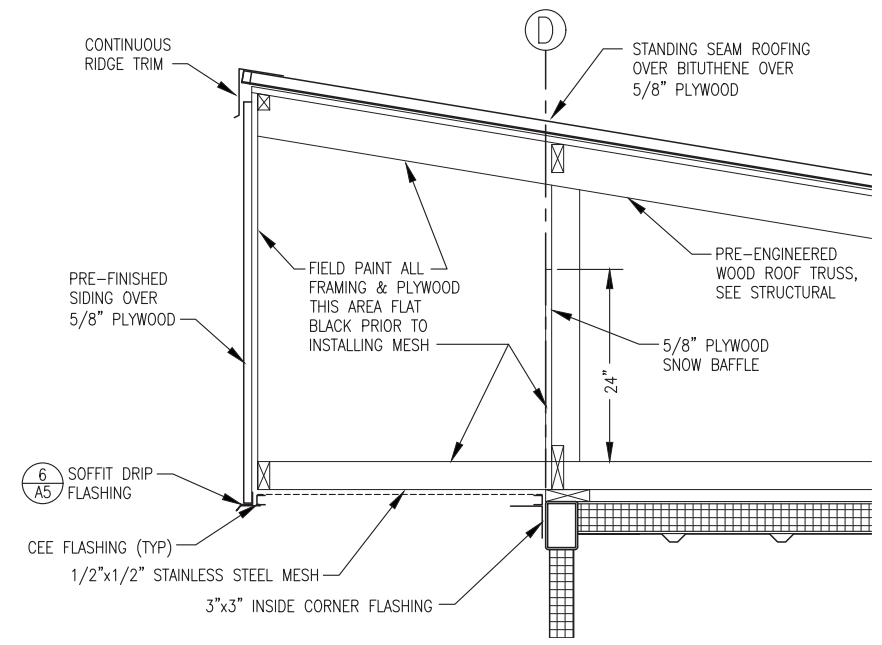
1 BUILDING SECTION  
A5 3/8"=1'-0"



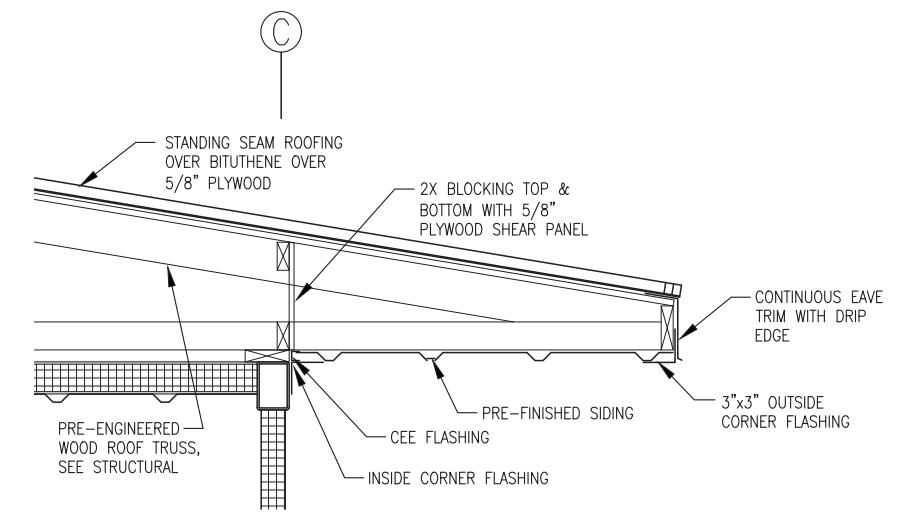
2 BUILDING SECTION  
A5 3/8"=1'-0"



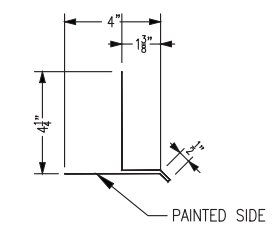
3 RAKE DETAIL  
A5 1"=1'-0"



4 EAVE DETAIL  
A5 1"=1'-0"



5 EAVE DETAIL  
A5 1"=1'-0"

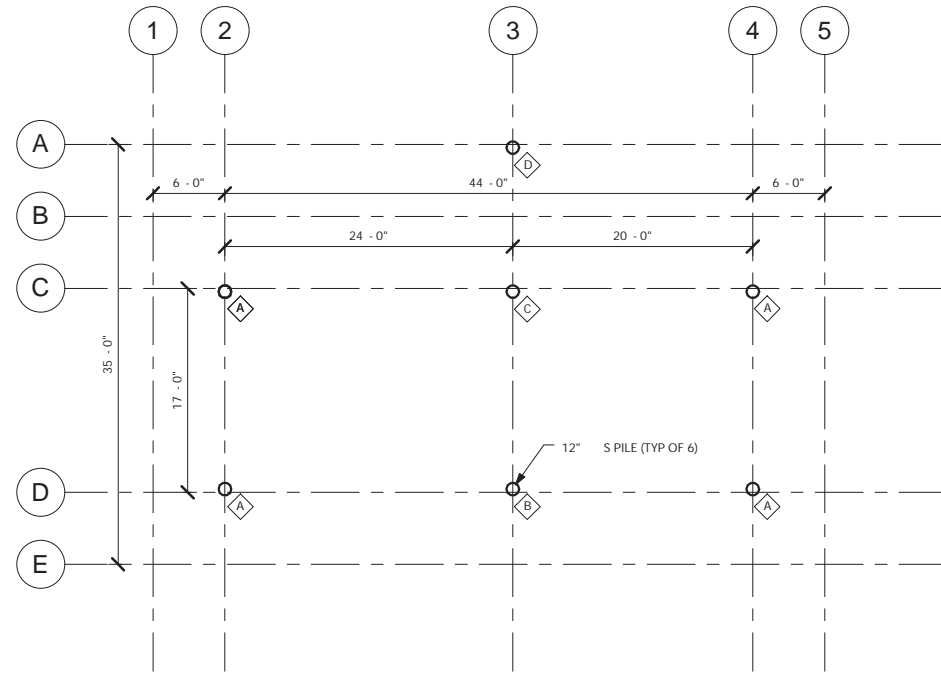


6 CUSTOM SOFFIT DRIP FLASHING  
A5 3/8"=1'-0"

**ROOFING SYSTEM NOTES:**

- 1) FIELD INSTALL TRUSSES TO MODULE STRUCTURE, SEE STRUCTURAL. FIELD INSTALL PLYWOOD SHEATHING, BITUTHENE, AND METAL ROOFING/SIDING AS INDICATED. SEAL AND FLASH ALL SEAMS TO FORM A CONTINUOUS WEATHERPROOF SEAL.
- 2) ALL ROOFING, SIDING, TRIM, AND FLASHING SHALL BE MIN 24 GAUGE GALVANIZED STEEL WITH KYNAR FINISH, COLOR JADE GREEN. ALL FASTENERS SHALL BE CORROSION RESISTANT STAINLESS STEEL SCREWS AND ALUMINUM RIVETS.
- 3) ROOFING SHALL BE STANDING SEAM TYPE, 24 GAUGE, 16" NET COVERAGE, 1-5/8" HIGH RIBS AT 8" O.C. AEP SPAN KLIP-RIB OR EQUAL. FURNISH CLIPS AND FASTENERS AS REQUIRED TO MEET LOAD CONDITIONS INDICATED ON SHEET S1.
- 4) SIDING SHALL BE LOW PROFILE, 24 GAUGE, 36" NET COVERAGE, 1-1/4" HIGH MAJOR RIBS AND 1/4" HIGH MINOR RIBS AT 12" O.C. AEP SPAN SUPER-SPAN OR EQUAL. FURNISH FASTENERS AS REQUIRED TO MEET LOAD CONDITIONS INDICATED ON SHEET S1.

**NOTE: Roof system, foundation and catwalk supports are not part of Module bid. See Appendix C, Exclusions.**



NOTES  
 1. ALL PILES SHALL BE DRIVEN TO AN EMBEDMENT DEPTH OF 55 AND HAVE A CONE SHAPED DRIVING TIP.

PILE LOADS						
MARK	DEAD (K)	FLOOR LIVE (K)	SNOW (K)	TOTAL (K)	WIND (K)	SEISMIC (K)
	DL	LL	SL	DL .75 LL .75 SL		
◇A	13.0	5.6	7.7	23.0	7.0 H 2.0 V	1.0 H 0.5 V
◇B	15.3	12.1	7.7	30.1	13.9 H 4.0 V	2.0 H 1.0 V
◇C	11.2	8.4	7.7	23.3	7.0 H 2.0 V	1.0 H 0.5 V
◇D	18.0	6.0	0.0	24.4	7.0 H 2.0 V	1.0 H 0.5 V

NOTES  
 1. DEAD LOADS INCLUDE EQUIPMENT LOADS AS PROVIDED BY A.E.A.

**NOTE: Foundation is not part of Module bid.  
 See Appendix C, Exclusions.**

**1**  
**S1** PILE PLAN  
 1/8" = 1'-0"

**STRUCTURAL GENERAL NOTES**

**1.0 DESIGN LOADS:**

A. BUILDING CODE: 2009 INTERNATIONAL BUILDING CODE (IBC 2009)

B. FLOOR LIVE LOADS: (IBC TABLE 1607.1)  
 LIGHT STORAGE/MANUFACTURING 125 PSF OR 2000 POUND POINT LOAD  
 MAIMUM GENERATOR UNIT WEIGHT 10,000 POUNDS

C. SNOW LOADS: (ASCE 7-02)  
 GROUND SNOW LOAD,  $P_g$  40 PSF  
 COEFFICIENT OF EXPOSURE,  $C_e$  1.0, PARTIALLY EXPOSED  
 SNOW IMPORTANCE FACTOR,  $I_s$  1.2, CATEGORY IV  
 THERMAL COEFFICIENT,  $C_t$  1.2, COLD, VENTILATED ROOF  
 ROOF/FLAT SNOW LOAD,  $P$  37.0, PSF

D. WIND LOADS:  
 BASIC WIND SPEED 130 MPH, 3 SECOND GUST  
 WIND IMPORTANCE FACTOR,  $I_w$  1.15, CATEGORY IV  
 EXPOSURE CLASSIFICATION EXPOSURE C

E. SEISMIC LOADING:  
 SEISMIC  $S$  0.50  $S$  0.15  
 SEISMIC IMPORTANCE FACTOR 1.50, CATEGORY IV

SITE CLASS "D"  
 BASIC SEISMIC FORCE RESISTANCE SYSTEM BUILDING - BEARING WALL WITH STEEL SHEAR PANELS  
 FOUNDATION CANTILEVERED COLUMN  
 SEISMIC RESPONSE COEFFICIENT,  $R$  7.0

**2.0 FOUNDATIONS:**

A. THE MODULE DESIGN SHOWS STANDARD INSTALLATION ON PILE FOUNDATION. OTHER TYPES OF AT GRADE FOUNDATIONS MAY BE USED PROVIDED THEY ARE DESIGNED FOR ALL LOAD CONDITIONS INDICATED.

**3.0 STRUCTURAL STEEL:**

A. THE DESIGN, FABRICATION, AND ERECTION OF ALL STRUCTURAL STEEL SHALL COMPLY WITH THE CODE OF STANDARD PRACTICE OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.

B. ALL STEEL PLATE, SHAPES, AND ROLLED SECTIONS SHALL BE ASTM A36. ALL STEEL TUBING SHALL BE ASTM A500, GRADE B. ALL STEEL PIPE SHALL BE A253, GRADE 3 (45 KSI).

C. ALL METAL TO METAL CONNECTIONS SHALL BE EQUAL TO STANDARD CONNECTION, OR AS DETAILED USING A325 BOLTS (BEARING TYPE CONNECTIONS). TIGHTEN HIGH STRENGTH BOLTS WITH PROPERLY CALIBRATED WRENCHES, BY TURN-OF-THE-NUT METHOD, OR BY LOAD WASHERS. ALL CONNECTIONS UNLESS OTHERWISE DETAILED, SHALL HAVE THE MAIMUM NUMBER OF 3/4" DIAMETER BOLTS USING STANDARD GAUGES AND CLEARANCES.

D. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE CURRENT CODE OF THE AMERICAN WELDING SOCIETY. USE AWS 5.1 E70 ELECTRODES. MINIMUM FILLET WELD SHALL BE 3/16" EXCEPT FOR SEAL WELDS TO GAUGE METAL AS INDICATED.

E. ALL EXPOSED STEEL SURFACES, OTHER THAN THOSE HOT DIP GALVANIZED (HDG), SHALL BE PREPARED AND PAINTED AS INDICATED IN THE ARCHITECTURAL DRAWINGS.

**4.0 WOOD:**

A. PLYWOOD ROOF DECK AND WALL SHEATHING SHALL BE TREATED (AWW). 5/8" PLYWOOD SHALL HAVE A PANEL SPAN RATING OF 32/16 - MINIMUM NAILING FOR PANELS, UNLESS OTHERWISE NOTED, SHALL BE EQUAL 10d NAILS AT 4" CENTERS AROUND PLYWOOD PANEL EDGES AND 10d 12" CENTERS ALONG INTERMEDIATE FRAMING. BLOCK ALL DIAPHRAGM PANEL EDGES WITH 2 4 FLAT BLOCKING. OSB OR NON-TREATED PLYWOOD PANELS WILL NOT BE ACCEPTED.

B. FRAMING MATERIAL: DOUGLAS FIR OR HEM FIR, NO. 2 OR BETTER MINIMUM FOR JOISTS, STUDS, PANEL JOINTS, WOOD PLATES, BLOCKING, AND HEADERS. MAIMUM MOISTURE CONTENT SHALL BE 19%. ALL FRAMING MATERIAL SHALL BE TREATED FOR GROUND CONTACT TO 0.4 MINIMUM RETENTION.

C. ALL METAL TO WOOD OR WOOD TO WOOD CONNECTIONS SHALL BE STANDARD OR AS DETAILED ON THE DRAWINGS. ALL FASTENERS IN CONTACT WITH WOOD MEMBERS AND PLYWOOD SHALL BE STAINLESS STEEL.

D. ALL METAL FRAMING ANCHORS AND SPLICE PLATES SHALL BE FABRICATED FROM STAINLESS STEEL AND SHALL SUPPORT THE LOADS INDICATED ON THE DRAWINGS. ANCHORS INDICATED ON THE DRAWINGS ARE "SIMPSON COMPANY" OR EQUAL.

E. MINIMUM NAILING SHALL BE EQUAL THAT INDICATED IN INTERNATIONAL BUILDING CODE TABLE 2304.9.1 UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS.

F. ERECT WOOD FRAMING MEMBERS TRUE TO LINES AND LEVELS. DO NOT DEVIATE FROM TRUE ALIGNMENT MORE THAN 1/4 INCH.

G. PREMANUFACTURED ROOF TRUSSES: ALL PREMANUFACTURED WOOD TRUSSES SHALL BE "GANG NAIL" OR EQUAL AND SHALL BE FABRICATED FROM TREATED LUMBER WITH STAINLESS STEEL PLATES AND FASTENERS AS INDICATED ABOVE. TRUSSES SHALL BE DESIGNED FOR THE GRAVITY LOADS, LATERAL LOADS, AND SUPPORT CONDITIONS AS INDICATED ON THE DRAWINGS. NO DURATION OF LOAD INCREASE IN STRESSES WILL BE ALLOWED FOR SNOW LOADING. UNBALANCED SNOW AND DRIFT LOADING IS REQUIRED. SUBMIT TRUSS DESIGNS STAMPED BY AN ENGINEER LICENSED TO PRACTICE IN THE STATE OF ALASKA. TRUSS DRAWINGS SHALL INDICATE ALL MATERIALS OF CONSTRUCTION.



**STATE OF ALASKA, AIDEA/AEA  
 RURAL POWER SYSTEM UPGRADE**  
 KIPNUK LIGHT PLANT  
 KIPNUK, ALASKA

CONSTRUCTION DOCUMENTS	
REVISIONS	DESCRIPTION
REV	DATE

**VERIFY SCALES**  
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 THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING

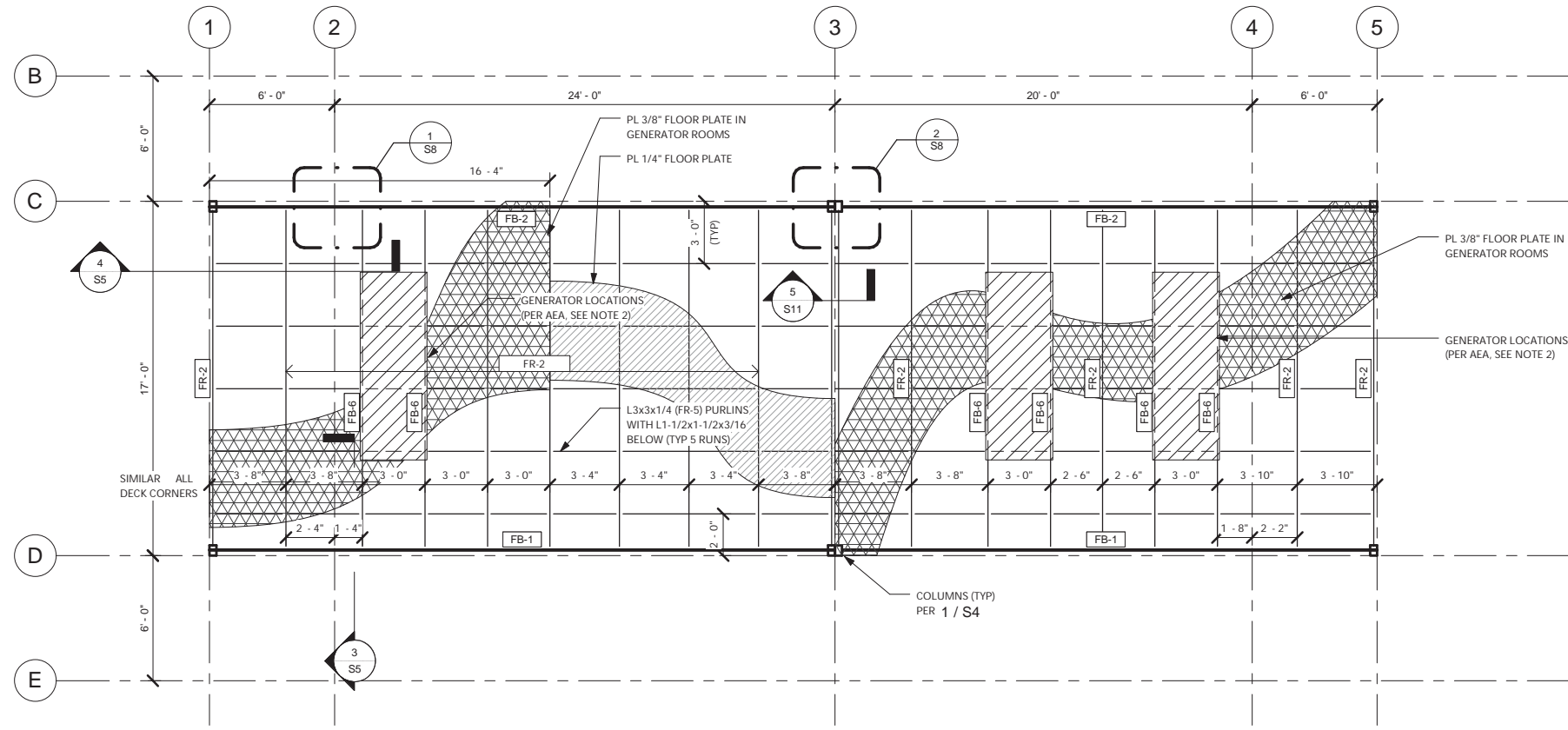


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 DRAWN BY: DM  
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 JOB NUMBER:

DRAWING TITLE:  
 PILE PLAN

**S1**  
 SHEET OF





**2** MODULE FRAMING PLAN  
S3 1/4" = 1'-0"

Module Framing Schedule		
Type Mark	Description	Comments
FB-1	W21X44	
FB-2	W21X44	
FB-6	W12X40	
FR-2	W12X14	JOISTS @ 4' OC MAX
FR-5	L3X3X1/4	PURLINS @ 3' OC MAX



**STATE OF ALASKA, AIDEA/AEA**  
**RURAL POWER SYSTEM UPGRADE**  
KIPNUK LIGHT PLANT  
KIPNUK, ALASKA

CONSTRUCTION DOCUMENTS	
REVISIONS	DESCRIPTION
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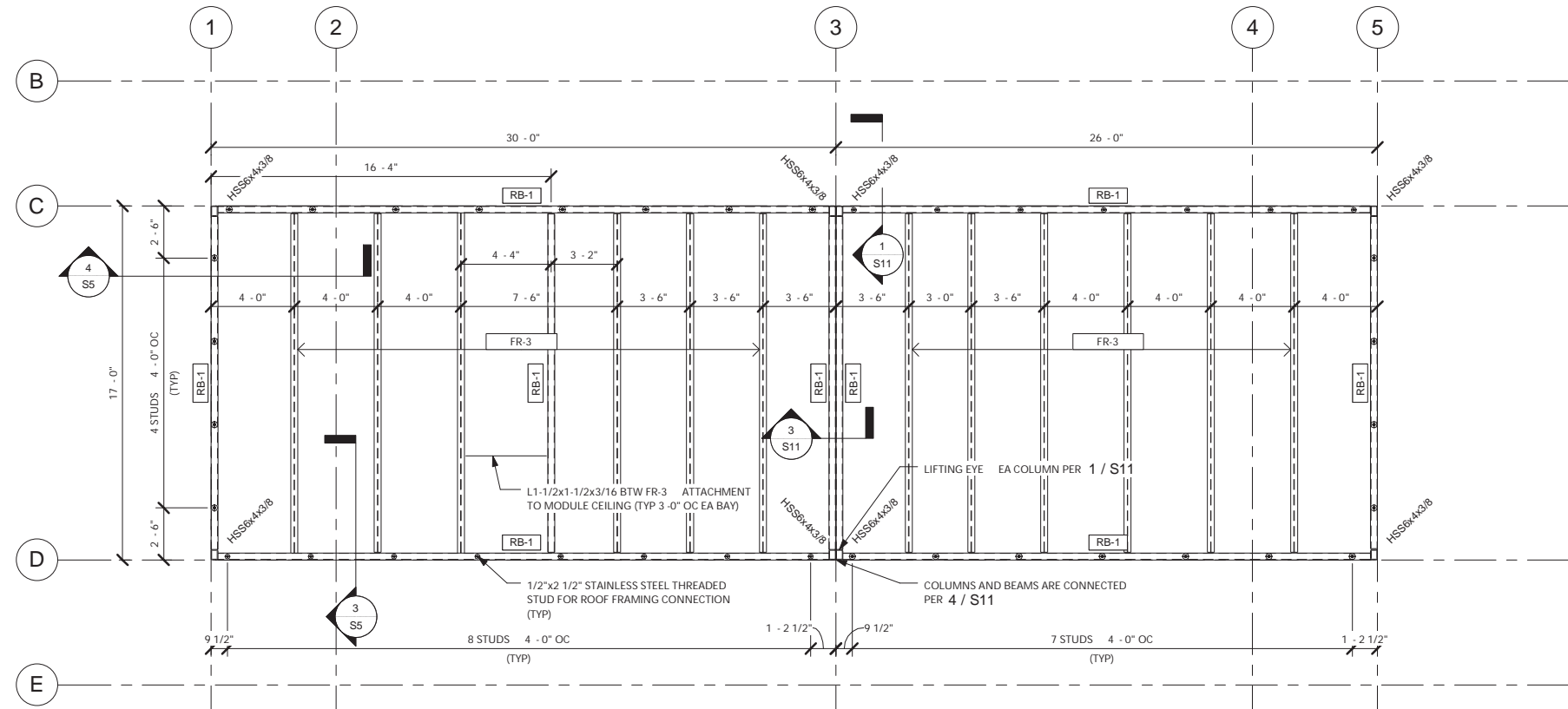
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JOB NUMBER:

DRAWING TITLE:  
MODULE FLOOR FRAMING PLAN

**S3**  
SHEET OF



- NOTES
1. FABRICATE CEILING ASSEMBLY USING SHEETS WITH ALL JOINTS CENTERED ON JOISTS.
  2. COORDINATE WITH MECHANICAL FOR STRUT SUPPORT LOCATIONS AND INSTALLATION.
  3. SEE ARCHITECTURAL FOR NON-STRUCTURAL COLUMNS.

Module Ceiling Framing Schedule		
Type Mark	Description	Comments
FR-3	W4X13	
RB-1	HSS6X4X3/8	

**1** CEILING FRAMING PLAN  
 S4 1/4" = 1'-0"



STATE OF ALASKA, AIDEA/AEA  
 RURAL POWER SYSTEM UPGRADE  
 KIPNIUK LIGHT PLANT  
 KIPNIUK, ALASKA

CONSTRUCTION DOCUMENTS	
REVISIONS	DESCRIPTION
REV DATE	

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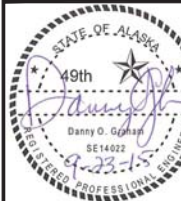
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DRAWING TITLE:  
 MODULE CEILING FRAMING PLAN

**S4**  
 SHEET OF

CONSTRUCTION DOCUMENTS	
REVISIONS	DESCRIPTION
REV. DATE	

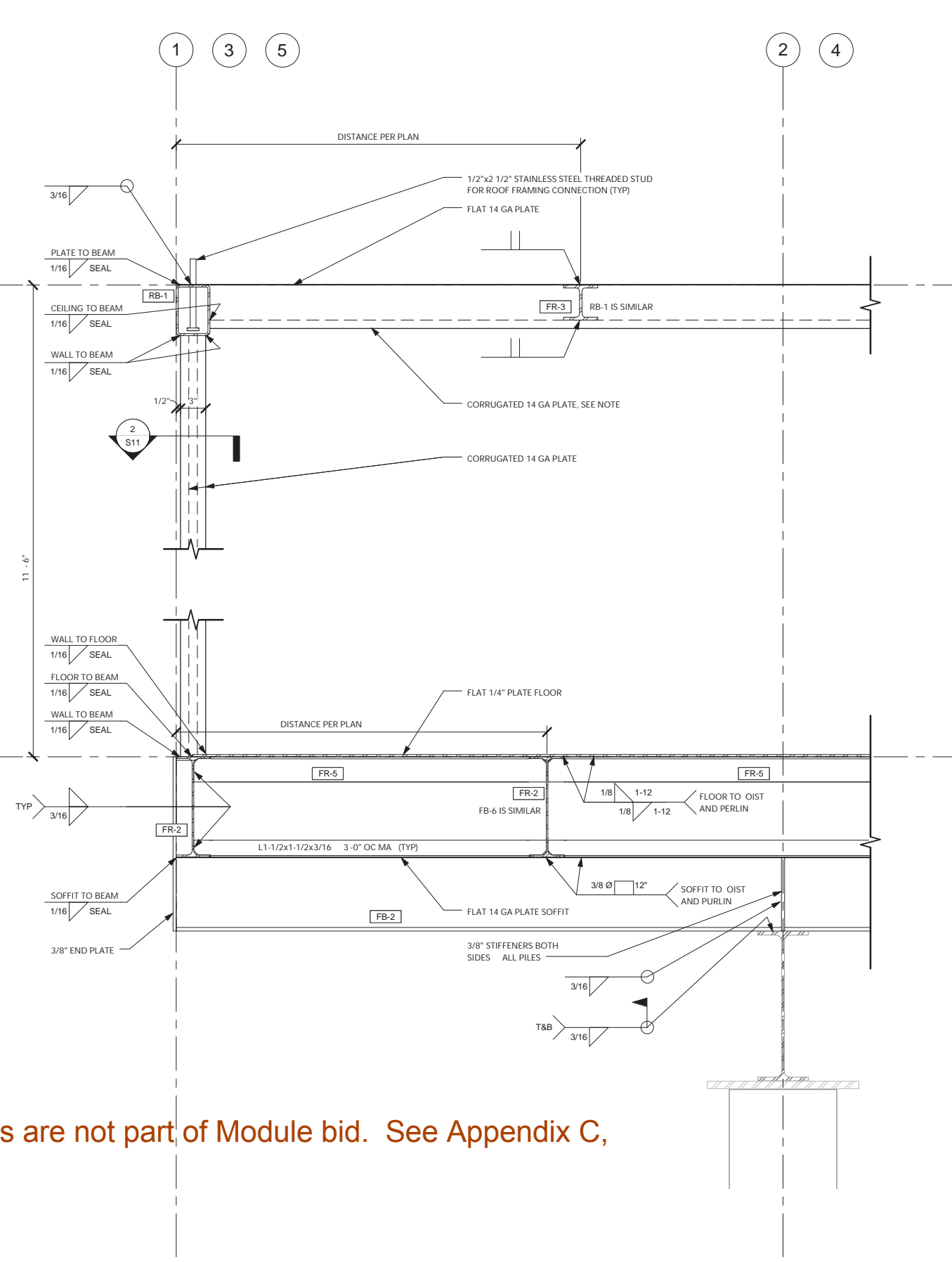
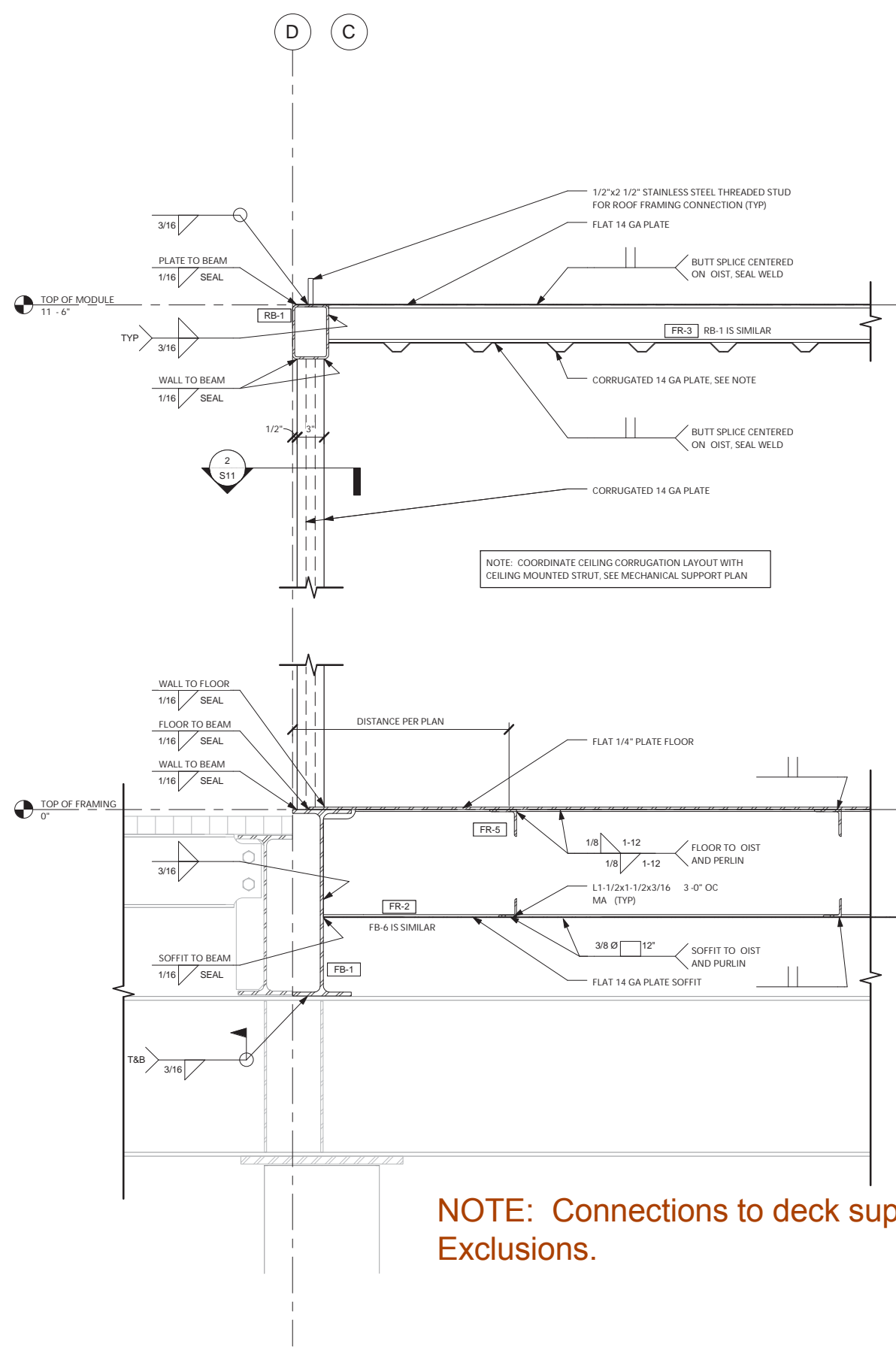
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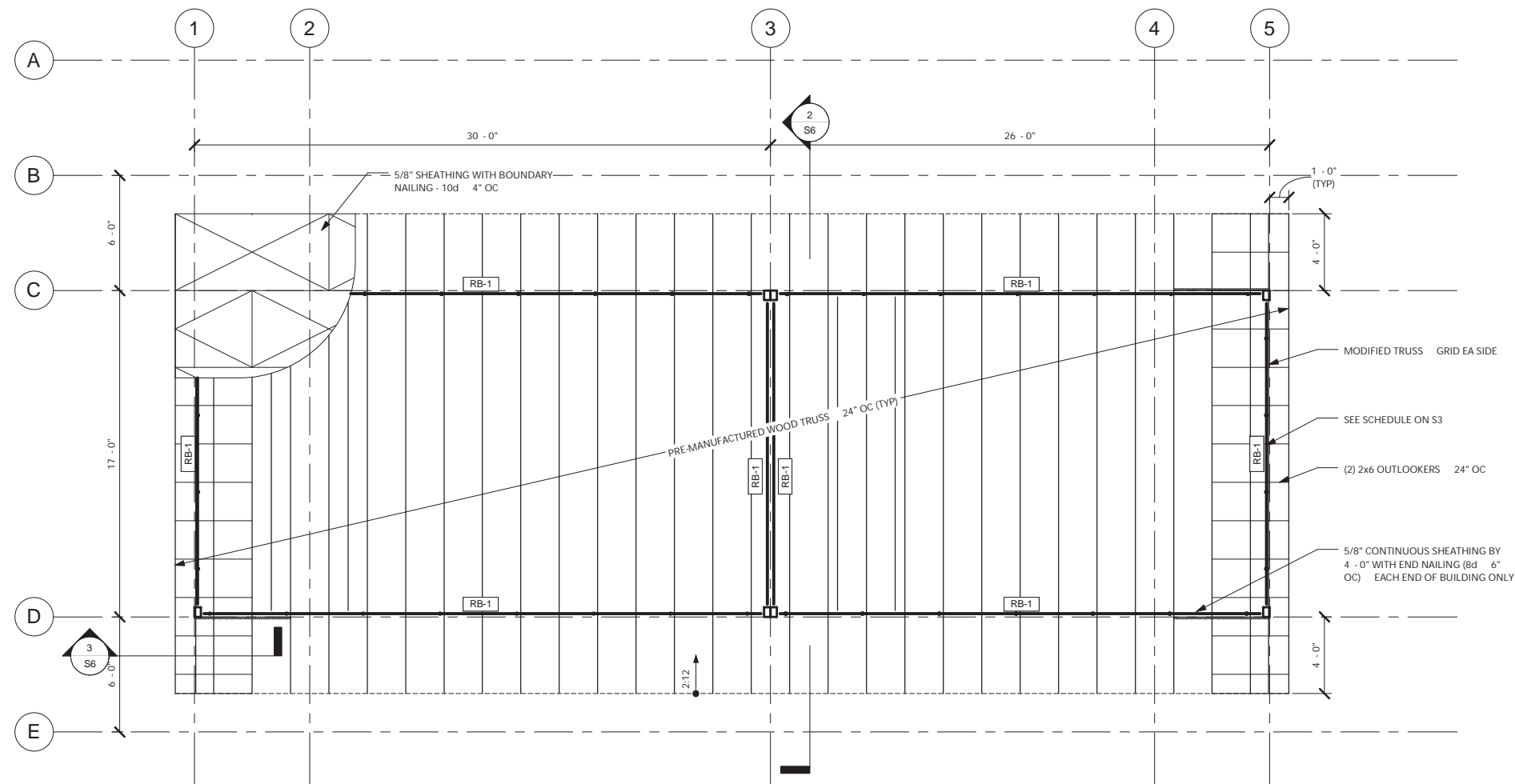
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MODULE CONNECTION DETAILS

**S5**  
SHEET OF



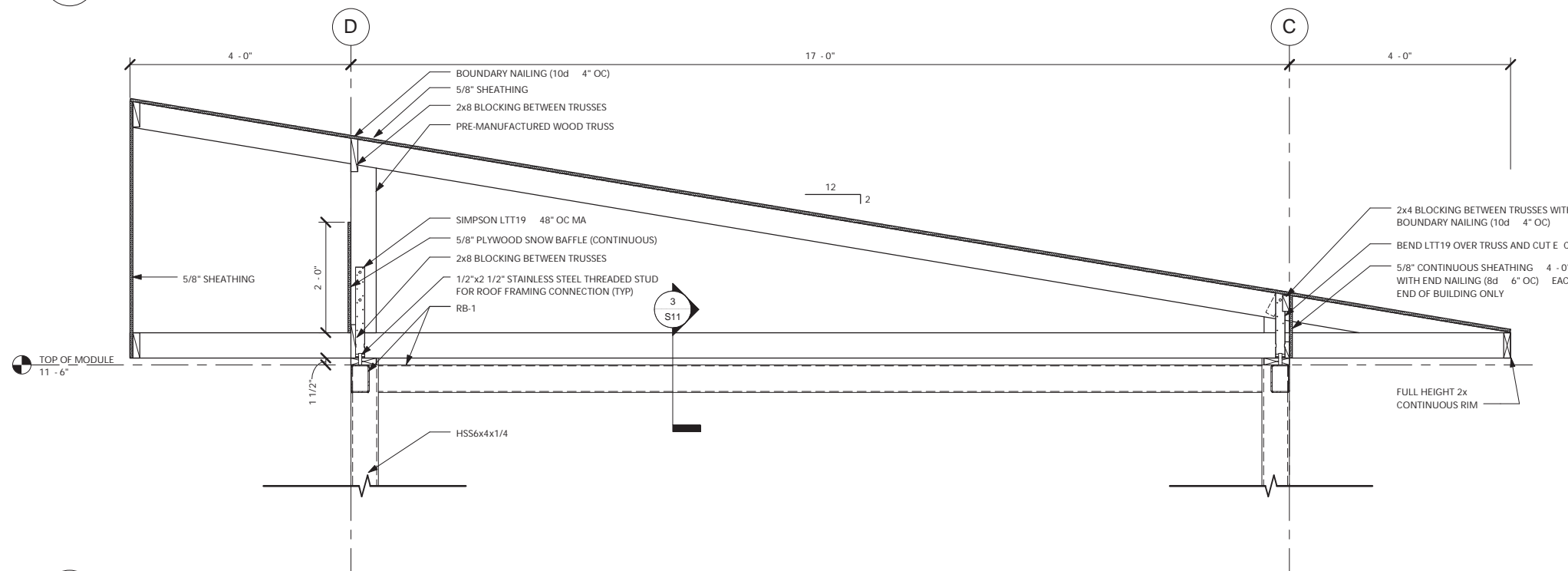
**NOTE: Connections to deck support beams are not part of Module bid. See Appendix C, Exclusions.**



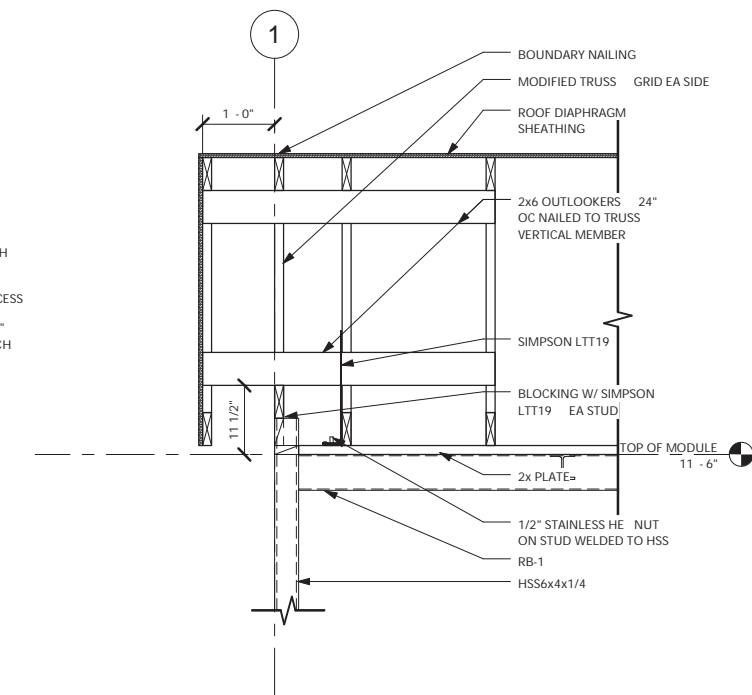
NOTES  
 1. ALL SHEATHING SHALL BE NAILED AT BOUNDARIES WITH 10d 4" OC, ALL EDGES WITH 8d 6" OC.

NOTE: Roof system not part of the Module bid. See Appendix C, Exclusions. Module attachments included in bid.

**1** ROOF FRAMING PLAN  
 S6 1/4" = 1'-0"



**2** TRUSS SECTION  
 S6 3/4" = 1'-0"



**3** GABLE SECTION  
 S6 3/4" = 1'-0"



STATE OF ALASKA, AIDEA/AEA  
 RURAL POWER SYSTEM UPGRADE  
 KIPNUK LIGHT PLANT  
 KIPNUK, ALASKA

REVISIONS	DESCRIPTION
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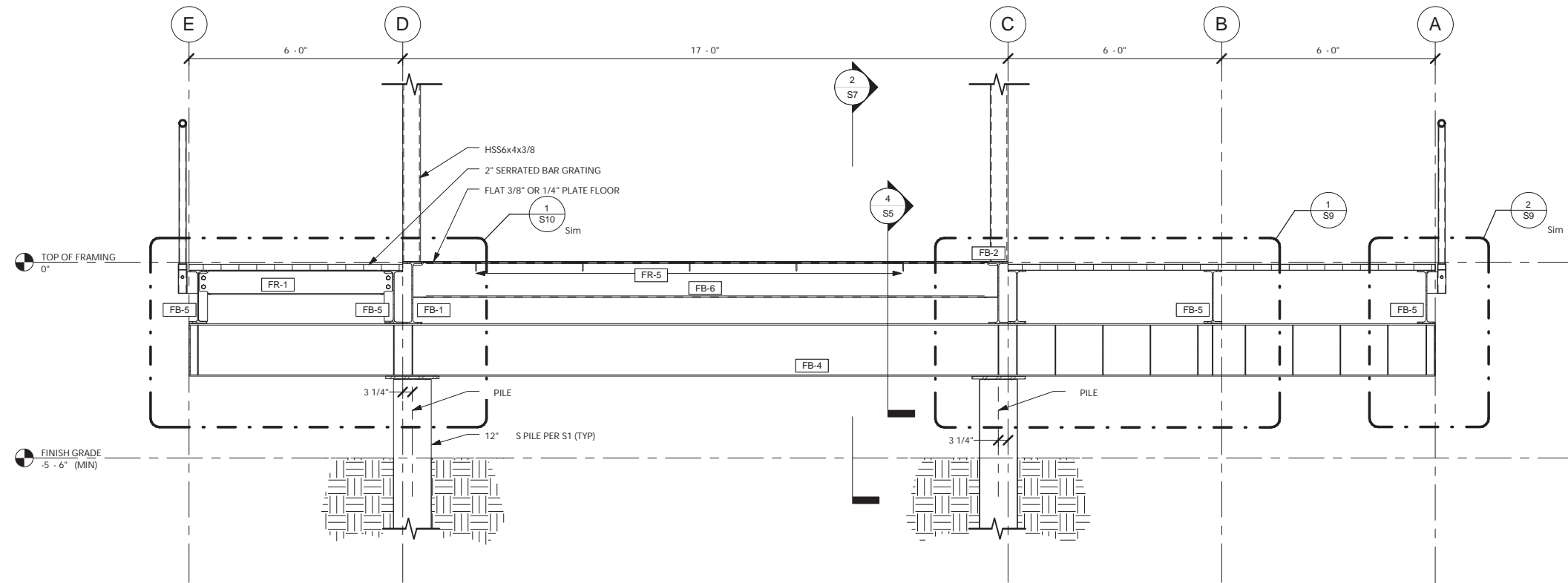
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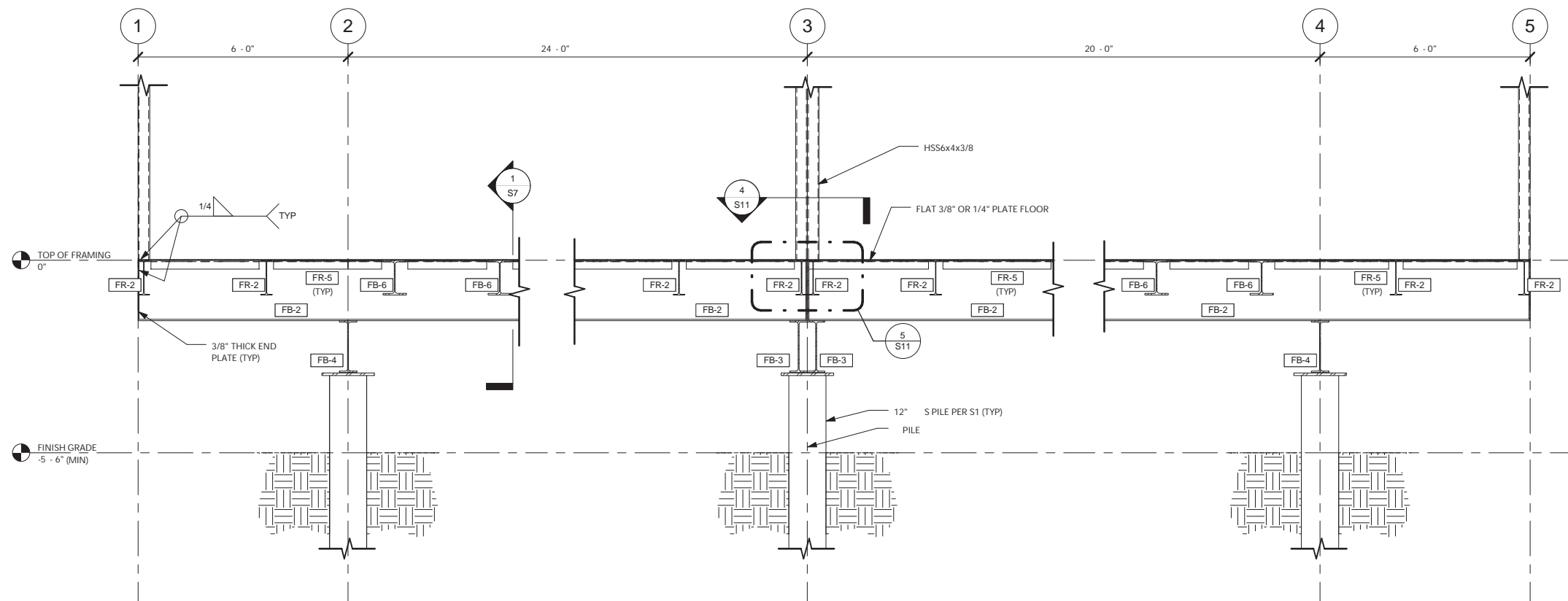
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 CHECKED BY: DG  
 JOB NUMBER:

DRAWING TITLE:  
 ROOF FRAMING PLAN AND SECTION

**S6**  
 SHEET OF



1 Section 1  
S7 1/2" = 1'-0"



2 Section 2  
S7 1/2" = 1'-0"

**NOTE: Catwalk and catwalk support beams (FB3, FB4 and FB5) are not part of Module bid. See Appendix C, Exclusions.**

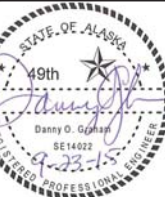


STATE OF ALASKA, AIDEA/AEA  
RURAL POWER SYSTEM UPGRADE  
KIPNIUK LIGHT PLANT  
KIPNIUK, ALASKA

CONSTRUCTION DOCUMENTS

REV. DATE	DESCRIPTION

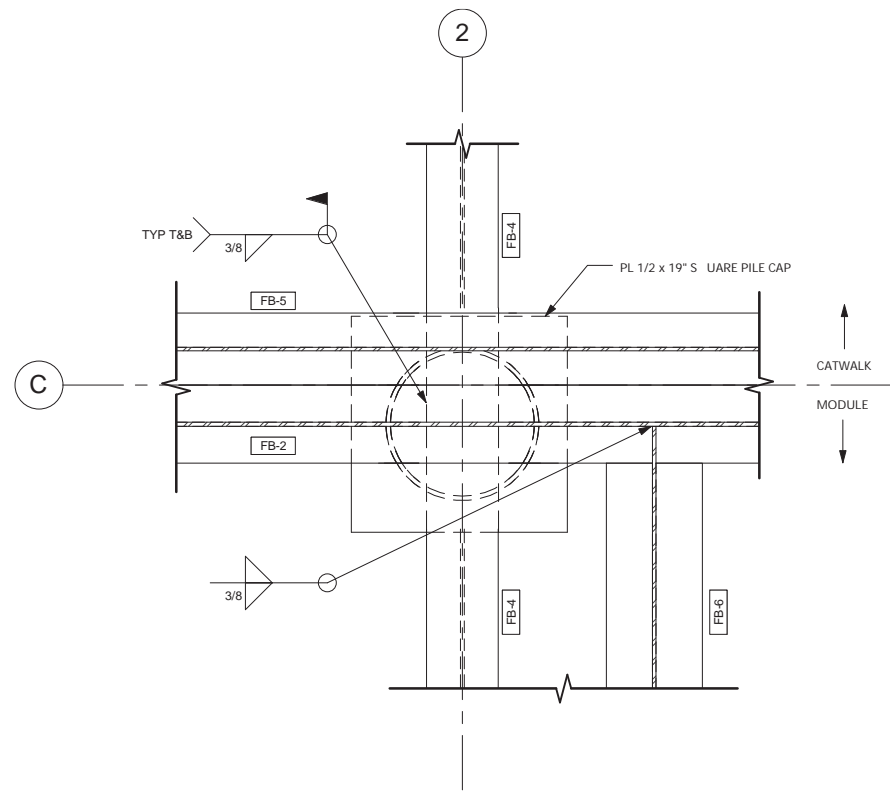
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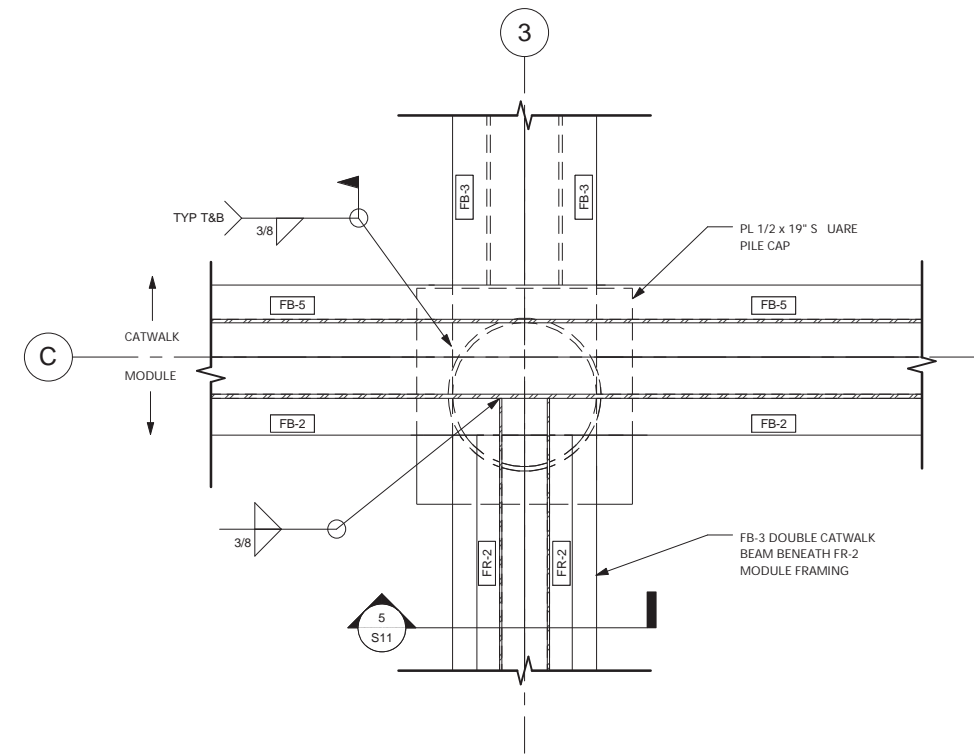
DATE: 09/23/15  
DRAWN BY: DM  
CHECKED BY: DG  
JOB NUMBER:

DRAWING TITLE:  
FLOOR FRAMING SECTIONS

S7  
SHEET OF



**1** BEAM CONNECTION DETAIL  
S8 1 1/2" = 1'-0"



**2** DOUBLE BEAM CONNECTION DETAIL  
S8 1 1/2" = 1'-0"

**NOTE: Catwalk support beams FB3, FB4, FB5 and pile caps are not part of Module bid. See Appendix C, Exclusions.**



**STATE OF ALASKA, AIDEA/AEA  
RURAL POWER SYSTEM UPGRADE**  
KIPNUK LIGHT PLANT  
KIPNUK, ALASKA

CONSTRUCTION DOCUMENTS	
REVISIONS	DESCRIPTION
REV DATE	

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THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING



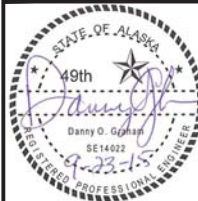
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CHECKED BY: DG  
JOB NUMBER:

DRAWING TITLE:  
CATWALK FRAMING  
DETAILS

**S8**  
SHEET OF

REVISIONS	DESCRIPTION
REV DATE	

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THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING

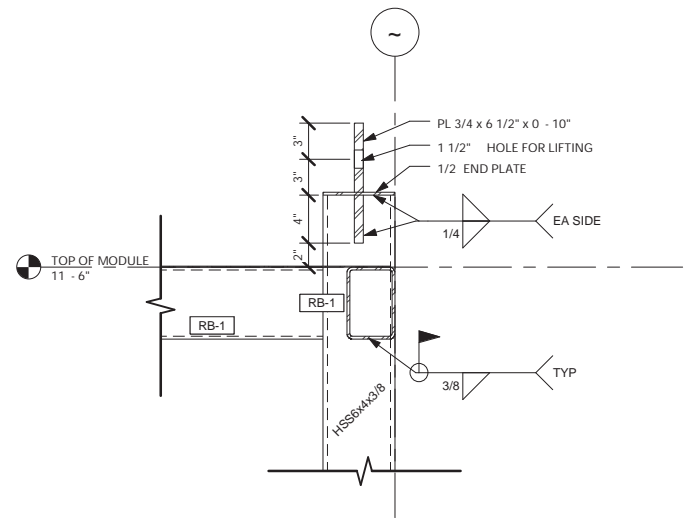


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JOB NUMBER:

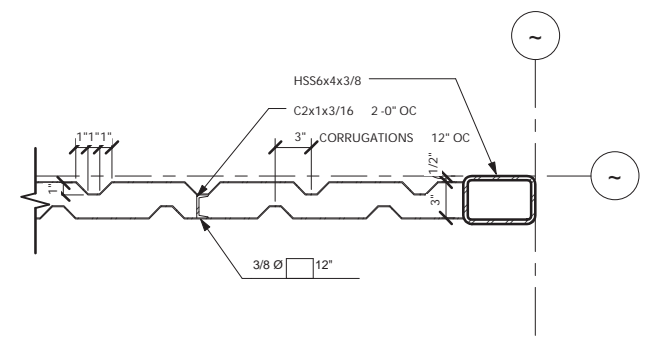
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MODULE DETAILS

S11

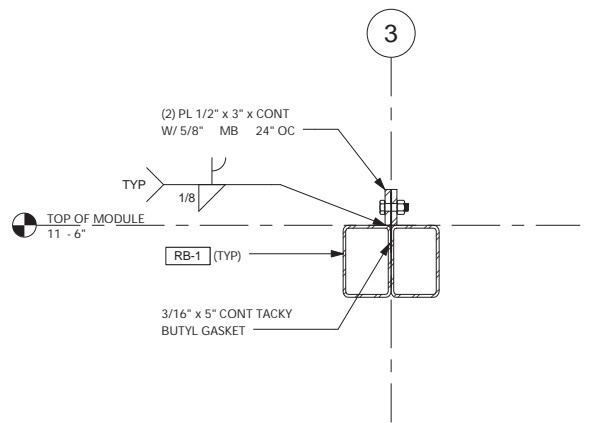
SHEET OF



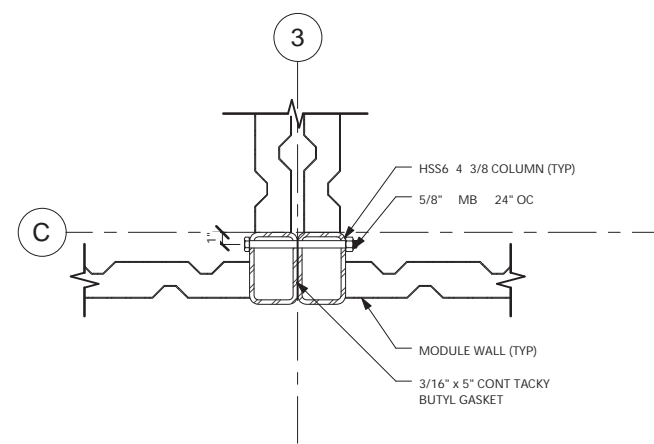
1 LIFTING EYE & COLUMN CONNECTION  
S11 1 1/2" = 1'-0"



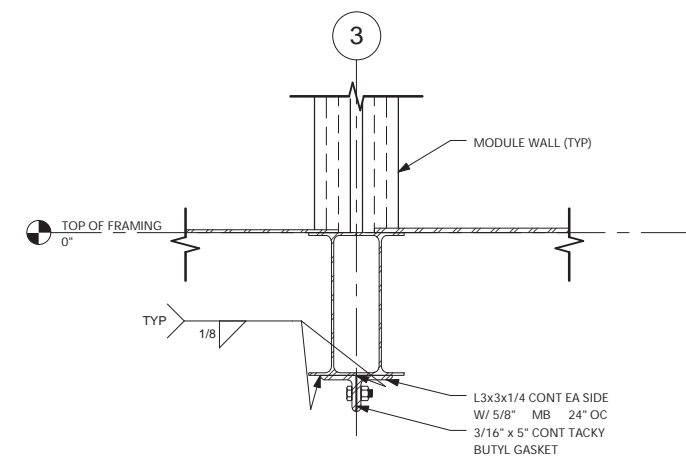
2 EXTERIOR WALL PLAN  
S11 1 1/2" = 1'-0"



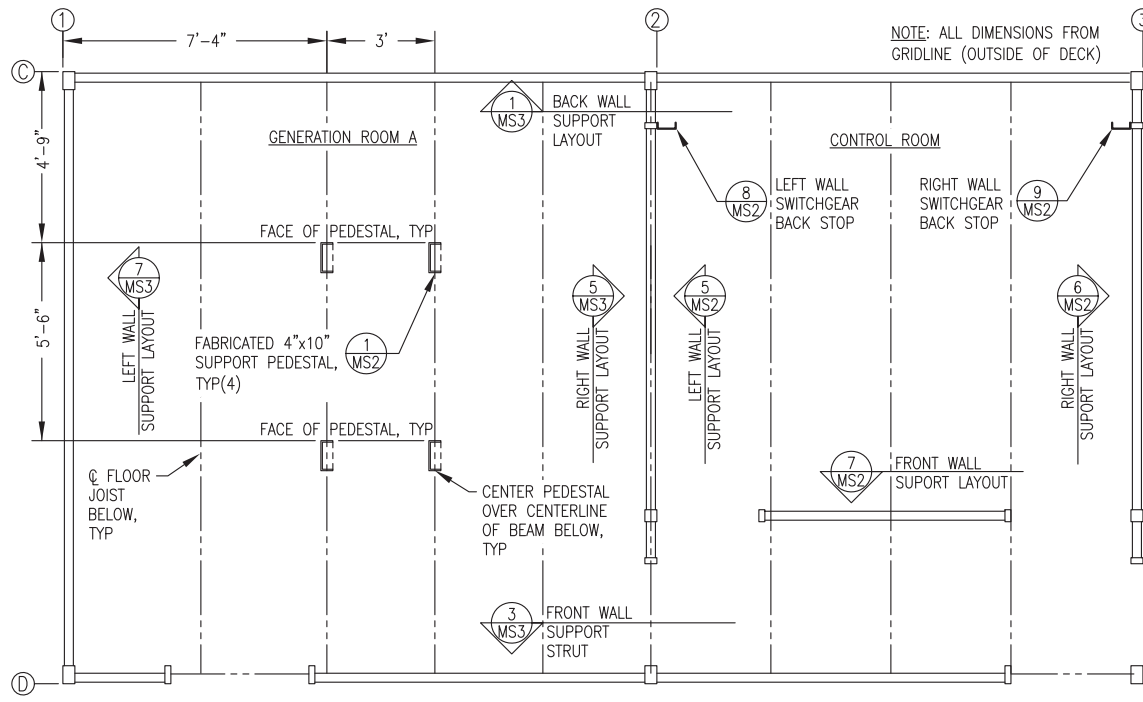
3 MODULE CONNECTION @ BEAMS  
S11 1 1/2" = 1'-0"



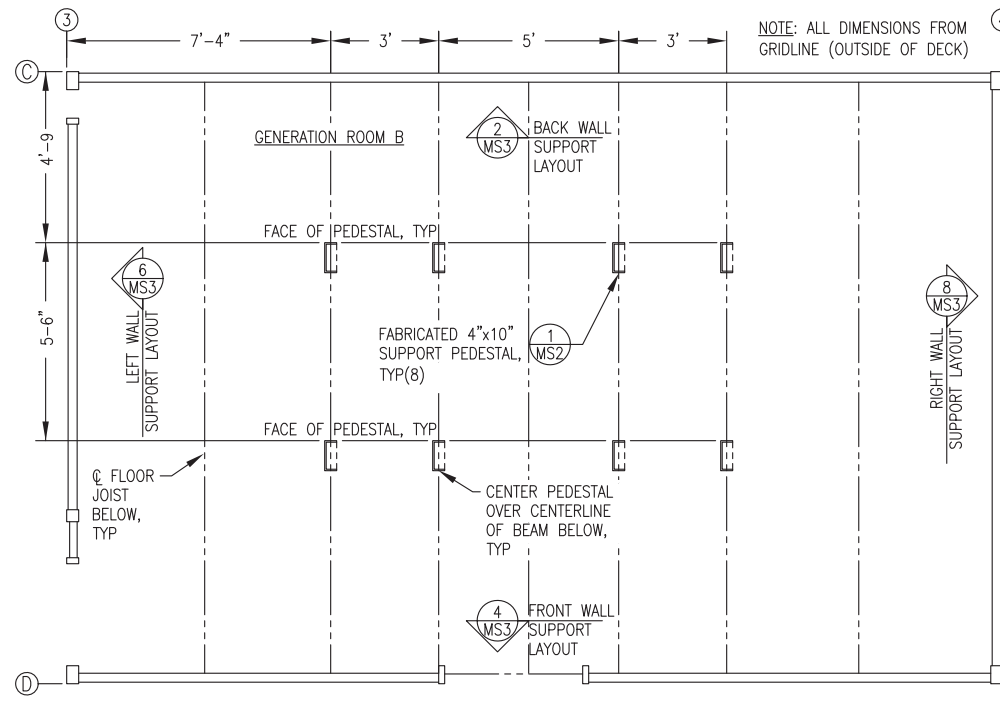
4 MODULE CONNECTION @ COLUMNS  
S11 1 1/2" = 1'-0"



5 MODULE CONNECTION @ FLOOR  
S11 1 1/2" = 1'-0"



MODULE A

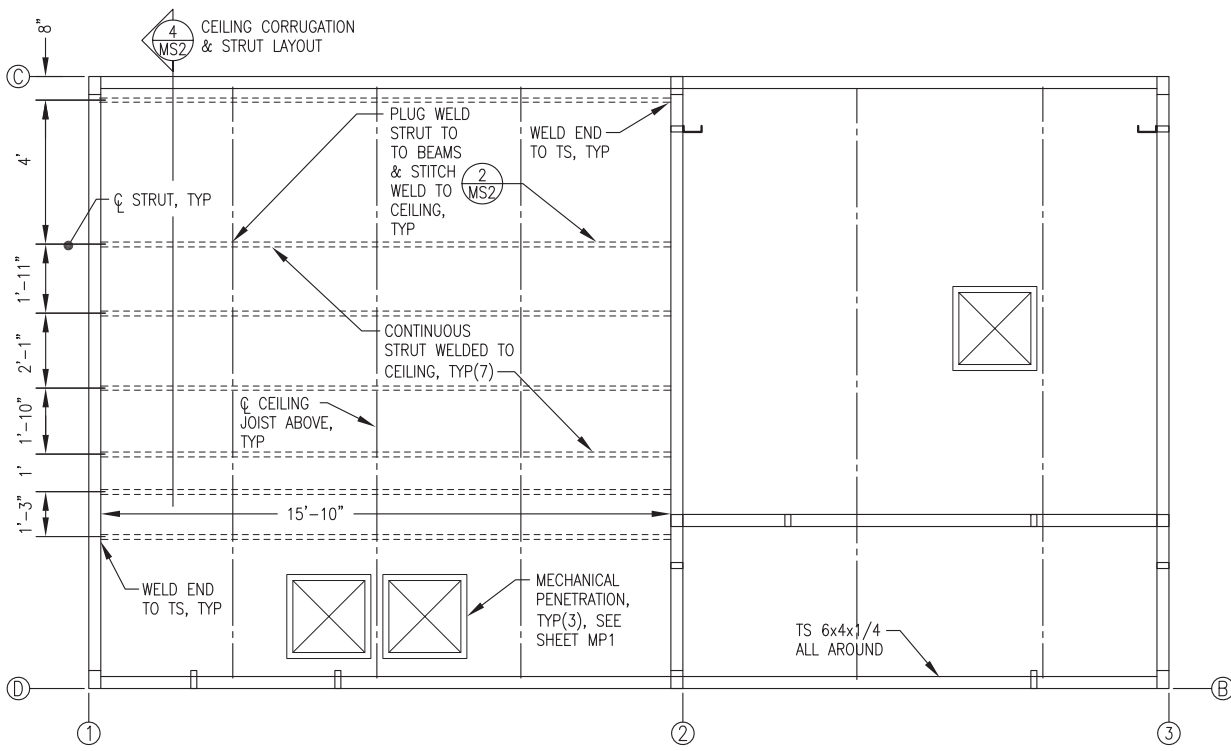


MODULE B

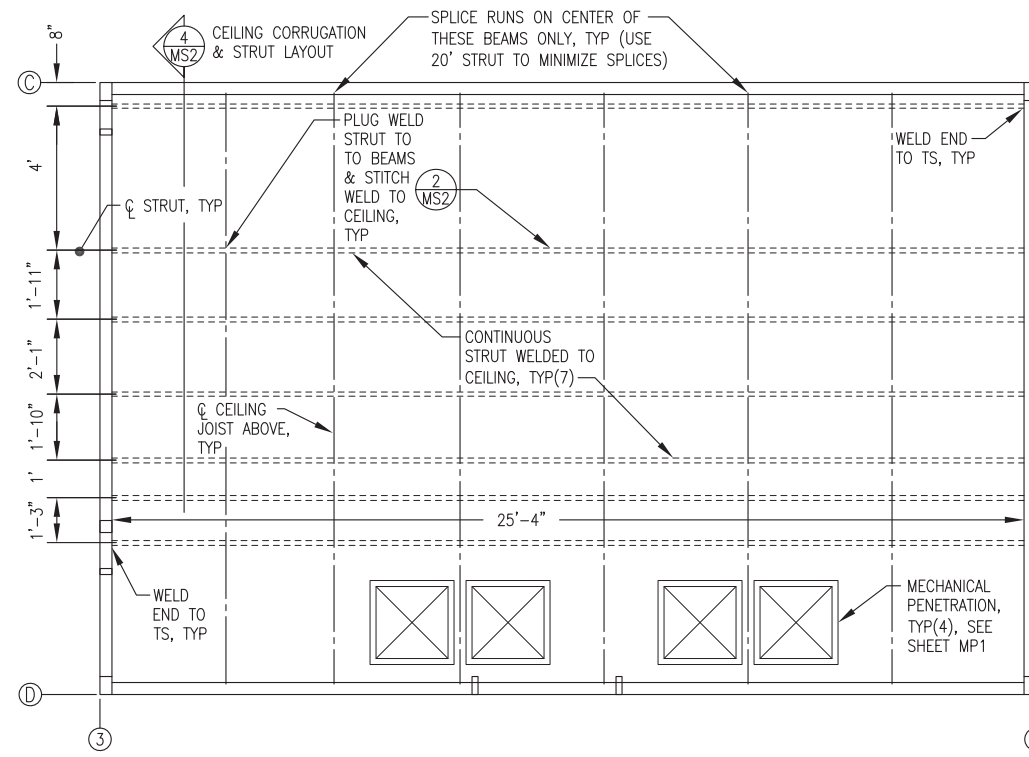
**GENERAL NOTES:**

- 1) ALL STRUT 12 GAUGE 1-5/8"x1-5/8" SOLID BACK PLAIN (UNFINISHED). B-LINE B22-PLN OR EQUAL. PURCHASE IN 20' LENGTHS TO MINIMIZE SPLICES.
- 2) INSTALL ALL SUPPORTS INDICATED AND GRIND SMOOTH PRIOR TO SANDBLASTING MODULE. SANDBLAST AND PAINT ALL SUPPORTS THIS SHEET EQUIVALENT TO MODULE INTERIOR. SEE SHEET A1 FOR PAINTING SPECIFICATIONS.

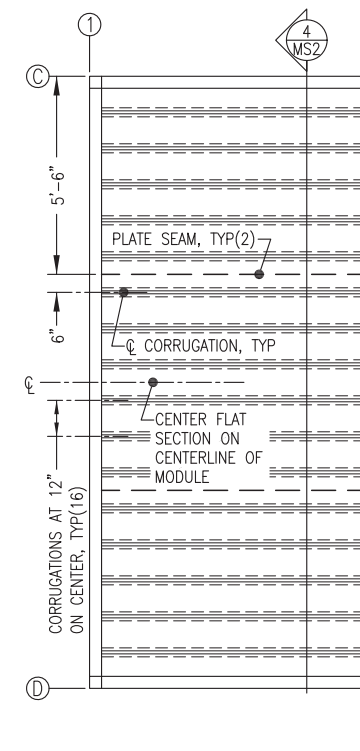
**1** MODULE MECHANICAL SUPPORT FLOOR PLANS  
MS1 3/8"=1'-0"



MODULE A CEILING STRUT LAYOUT



MODULE B CEILING STRUT LAYOUT



CEILING PLATE CORRUGATION LAYOUT

**3** MODULE MECHANICAL SUPPORT REFLECTED CEILING PLANS  
MS1 3/8"=1'-0"



STATE OF ALASKA, AIDEA/AEA  
RURAL POWER SYSTEM UPGRADE  
KIPNUK POWER PLANT  
KIPNUK, ALASKA

CONSTRUCTION DOCUMENTS	
REVISIONS	DESCRIPTION
REV DATE	

VERIFY SCALES  
0 1"  
THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING



DATE: 9/22/15  
DRAWN BY: JTD  
CHECKED BY: BCG  
JOB NUMBER:

DRAWING TITLE:  
MECHANICAL SUPPORT PLANS & DETAILS

**MS1**

SHEET 1 OF 3



CONSTRUCTION DOCUMENTS	
REVISIONS	DESCRIPTION
REV. DATE	

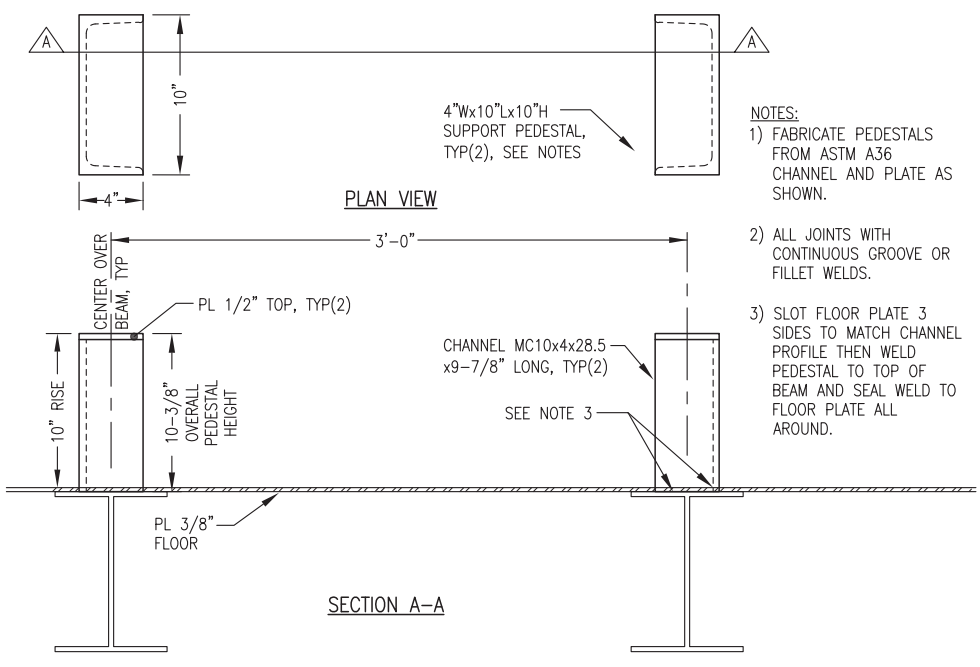
VERIFY SCALES  
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THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING



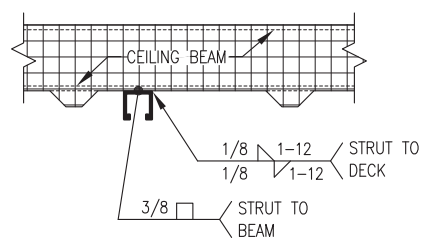
DATE: 9/22/15  
DRAWN BY: JTD  
CHECKED BY: BCG  
JOB NUMBER:

DRAWING TITLE:  
MECHANICAL SUPPORT DETAILS

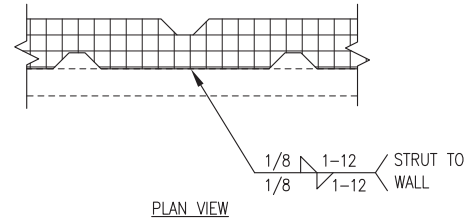
**MS2**  
SHEET 2 OF 3



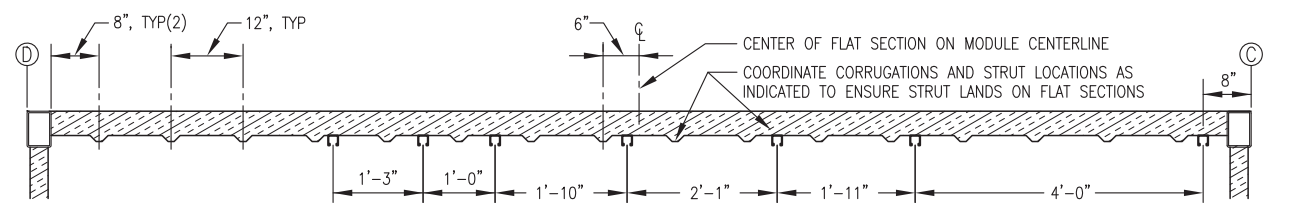
**1** FABRICATED PEDESTAL SUPPORT  
MS2 6"=1'-0"



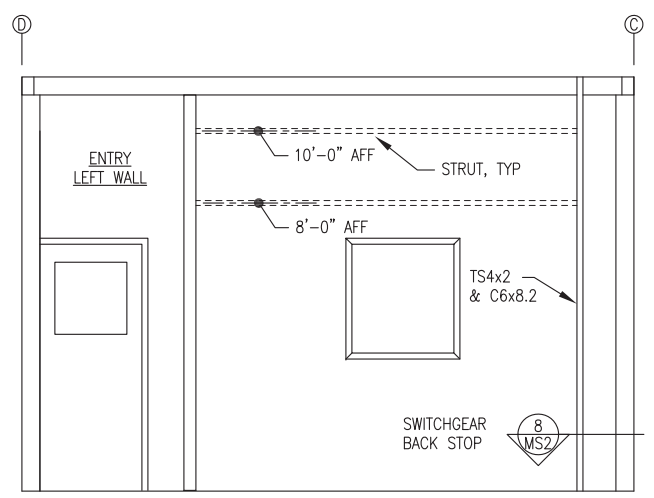
**2** CEILING STRUT ATTACHMENT  
MS2 NO SCALE



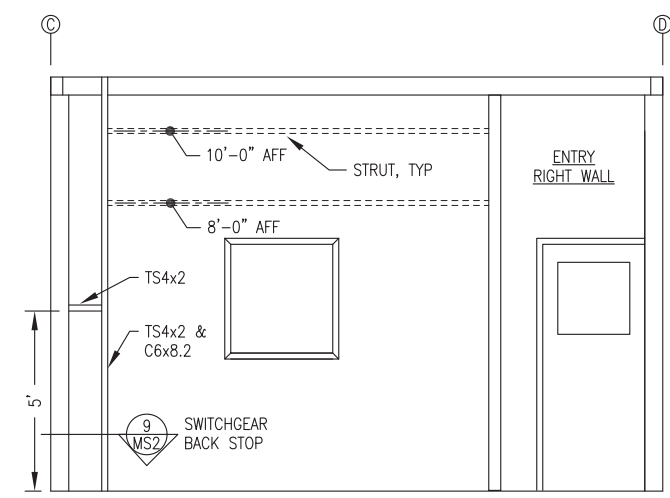
**3** HORIZONTAL WALL STRUT ATTACHMENT  
MS2 NO SCALE



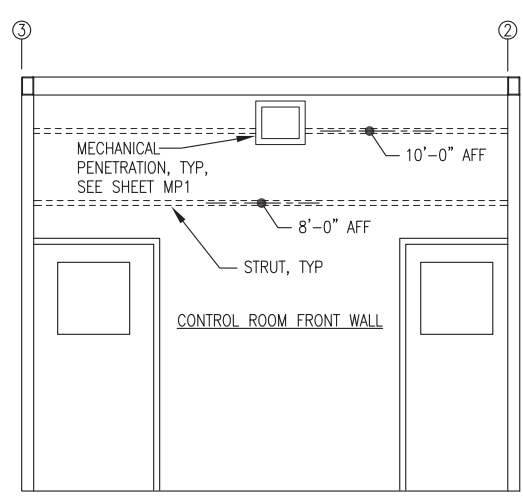
**4** TYPICAL SECTION THROUGH CEILING - CORRUGATION & STRUT LAYOUT  
MS2 3/4"=1'-0"



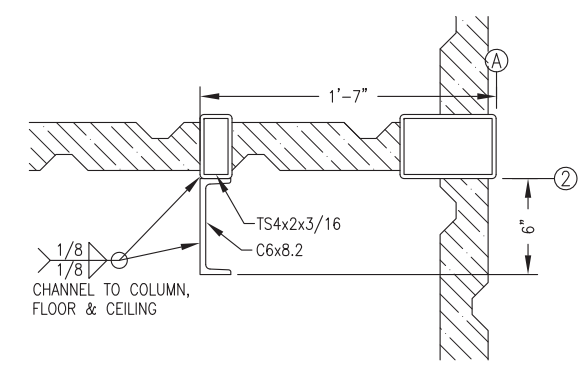
**5** CONTROL ROOM LEFT WALL SUPPORT LAYOUT  
MS2 3/8"=1'-0"



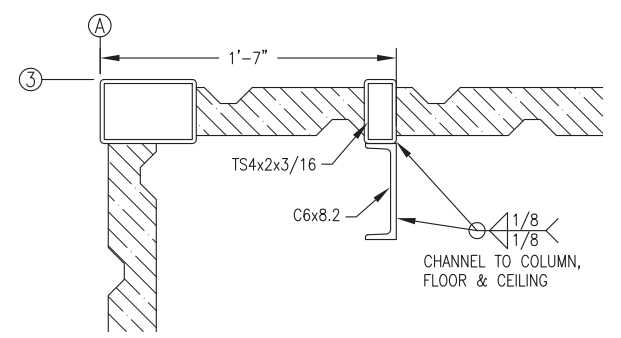
**6** CONTROL ROOM RIGHT WALL SUPPORT LAYOUT  
MS2 3/8"=1'-0"



**7** CONTROL ROOM FRONT WALL SUPPORT LAYOUT  
MS2 3/8"=1'-0"



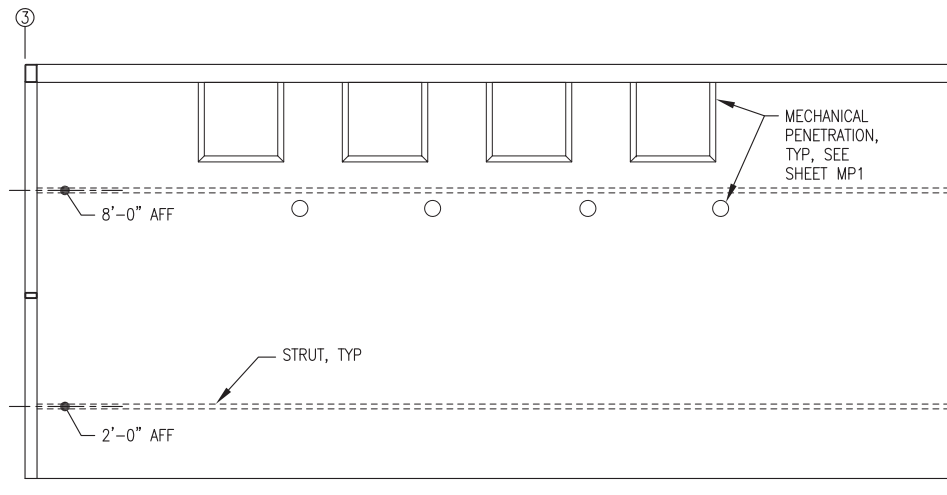
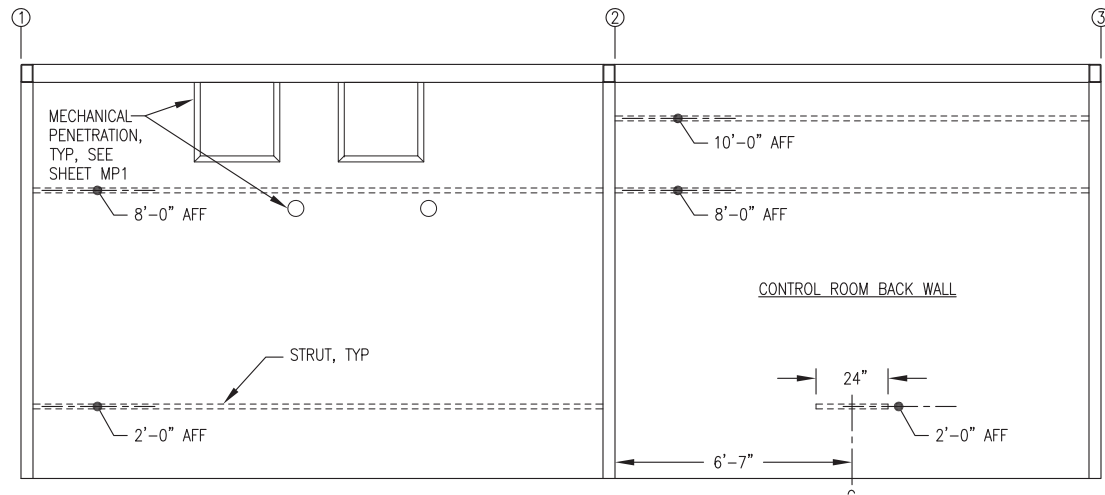
**8** LEFT WALL SWITCHGEAR BACK STOP  
MS2 NO SCALE



**9** RIGHT WALL SWITCHGEAR BACK STOP  
MS2 NO SCALE

**GENERAL NOTES:**

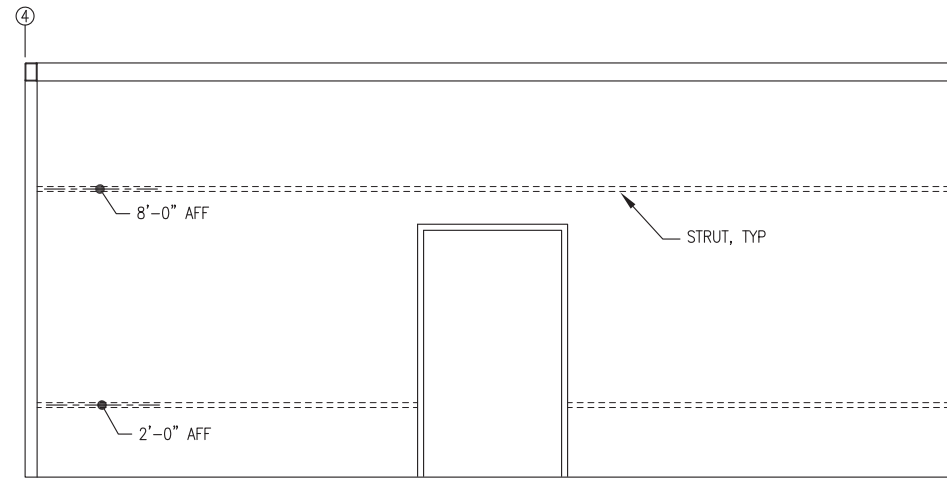
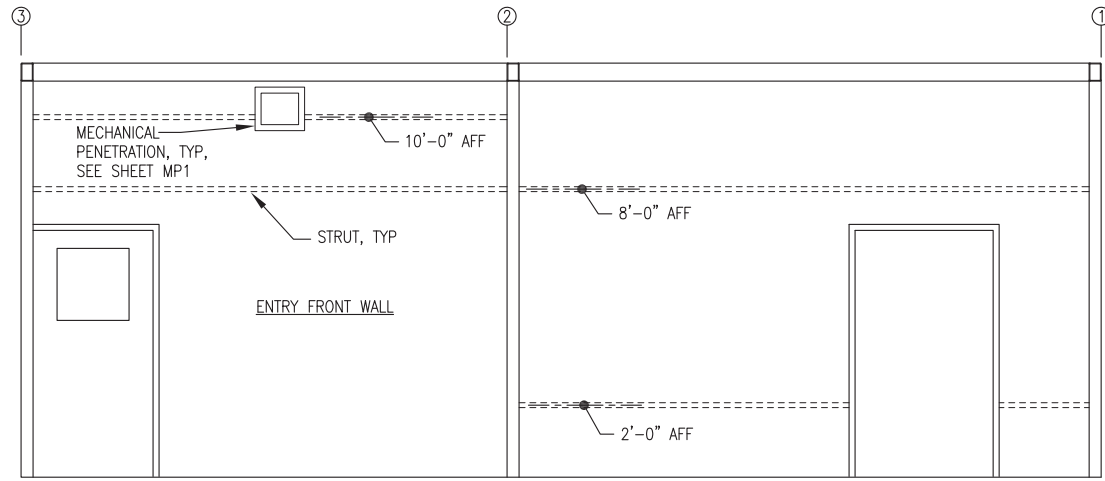
- 1) DETAILS 5, 6, & 7 THIS SHEET ARE INTERIOR ELEVATIONS.
- 2) ALL STRUT LOCATION DIMENSIONS ARE CENTERLINE HEIGHT ABOVE FINISHED FLOOR (AFF).
- 3) ALL STRUT 12 GAUGE 1-5/8"x1-5/8" SOLID BACK PLAIN (UNFINISHED). B-LINE B22-PLN OR EQUAL. PURCHASE IN 20' LENGTHS TO MINIMIZE SPLICES.
- 4) INSTALL ALL SUPPORTS INDICATED AND GRIND SMOOTH PRIOR TO SANDBLASTING MODULE. SANDBLAST AND PAINT ALL SUPPORTS THIS SHEET EQUIVALENT TO MODULE INTERIOR. SEE SHEET A1 FOR PAINTING SPECIFICATIONS.
- 5) DEE DETAIL 3/MS2 FOR STRUT ATTACHMENT TO WALL.



- GENERAL NOTES:**
- 1) ALL VIEWS THIS SHEET ARE INTERIOR ELEVATIONS.
  - 2) ALL STRUT LOCATION DIMENSIONS ARE CENTERLINE HEIGHT ABOVE FINISHED FLOOR (AFF).
  - 3) ALL STRUT 12 GAUGE 1-5/8"x1-5/8" SOLID BACK PLAIN (UNFINISHED). B-LINE B22-PLN OR EQUAL. PURCHASE IN 20' LENGTHS TO MINIMIZE SPLICES.
  - 4) INSTALL ALL SUPPORTS INDICATED AND GRIND SMOOTH PRIOR TO SANDBLASTING MODULE. SANDBLAST AND PAINT ALL SUPPORTS THIS SHEET EQUIVALENT TO MODULE INTERIOR. SEE SHEET A1 FOR PAINTING SPECIFICATIONS.
  - 5) SEE DETAIL 3/MS2 FOR STRUT ATTACHMENT TO WALL.

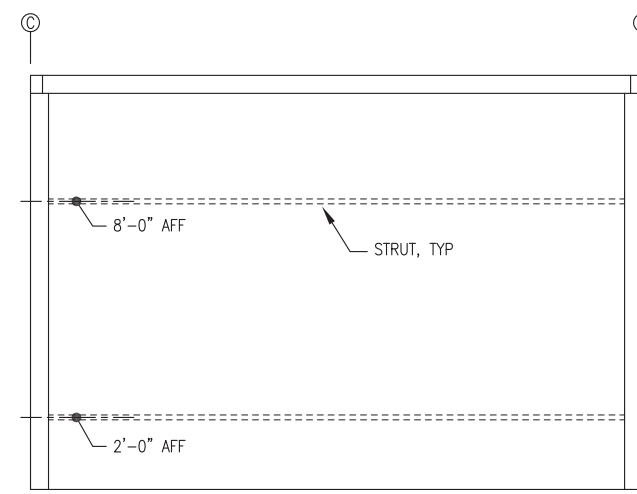
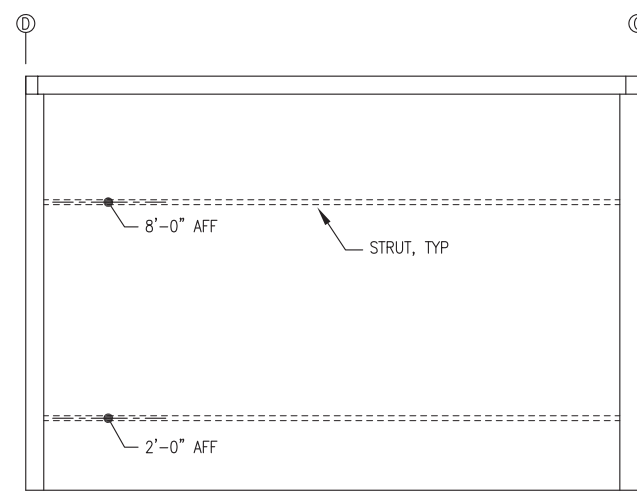
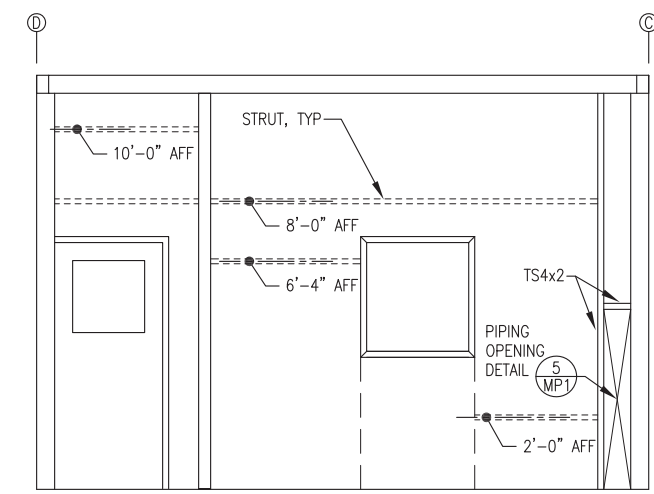
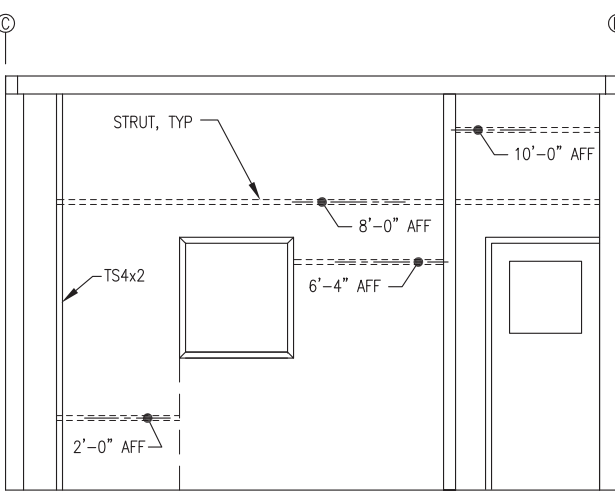
**1** MODULE A BACK WALL SUPPORT LAYOUT  
MS3 3/8"=1'-0"

**2** MODULE B BACK WALL SUPPORT LAYOUT  
MS3 3/8"=1'-0"



**3** MODULE A FRONT WALL SUPPORT LAYOUT  
MS3 3/8"=1'-0"

**4** MODULE B FRONT WALL SUPPORT LAYOUT  
MS3 3/8"=1'-0"



**5** GENERATION ROOM A RIGHT WALL SUPPORT LAYOUT  
MS3 3/8"=1'-0"

**6** MODULE B LEFT WALL SUPPORT LAYOUT  
MS3 3/8"=1'-0"

**7** GENERATION ROOM A LEFT WALL SUPPORT LAYOUT  
MS3 3/8"=1'-0"

**8** MODULE B RIGHT WALL SUPPORT LAYOUT  
MS3 3/8"=1'-0"



**STATE OF ALASKA, AIDEA/AEA  
RURAL POWER SYSTEM UPGRADE**

KIPNUK POWER PLANT  
KIPNUK, ALASKA

REVISIONS	DESCRIPTION
REV DATE	

VERIFY SCALES  
0 1"  
THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING



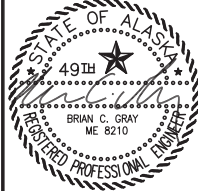
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DRAWN BY: JTD  
CHECKED BY: BCG  
JOB NUMBER:

DRAWING TITLE:  
MECHANICAL SUPPORT DETAILS

**MS3**  
SHEET 3 OF 3

CONSTRUCTION DOCUMENTS	
REVISIONS	DESCRIPTION
REV#	DATE

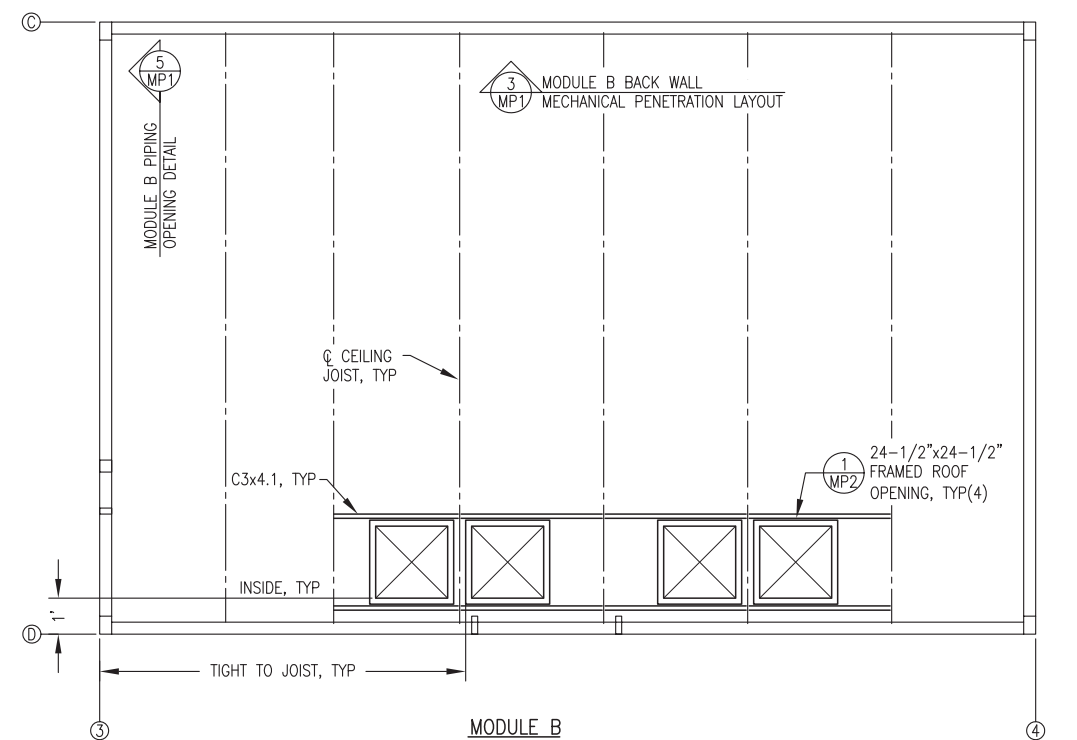
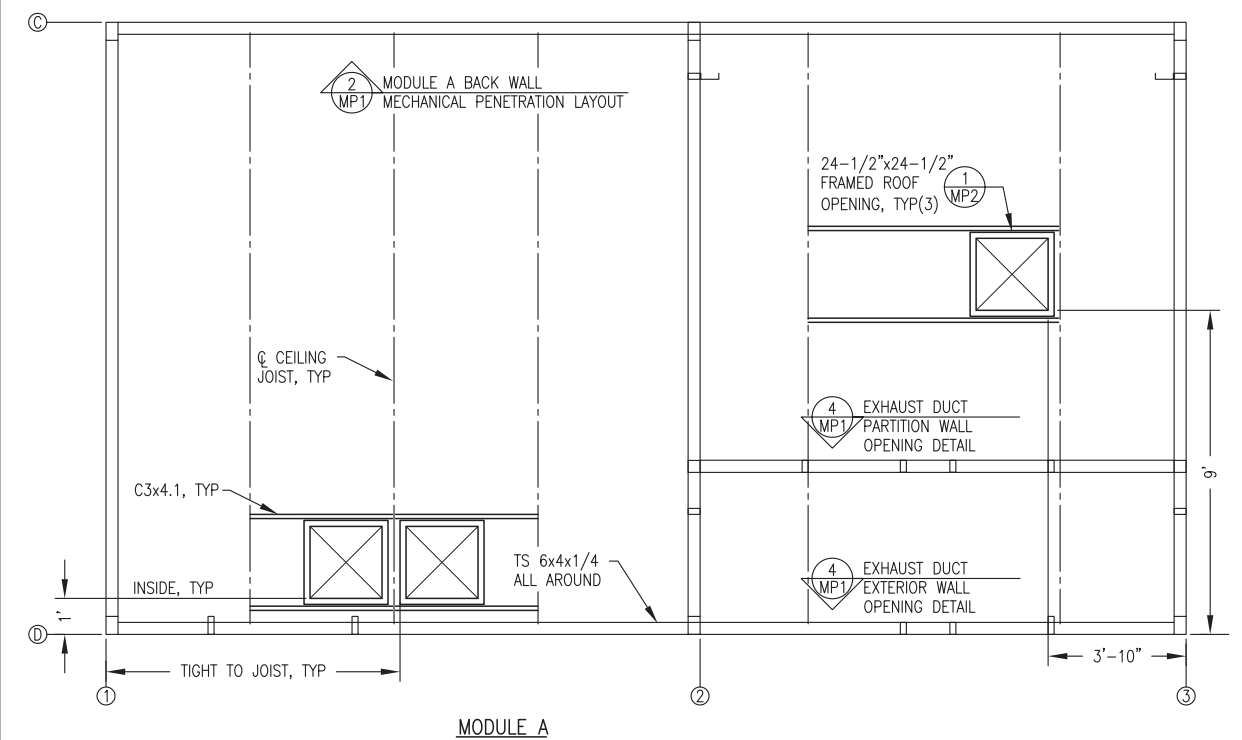
VERIFY SCALES  
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THIS BAR REPRESENTS  
ONE INCH ON ORIGINAL  
DRAWING



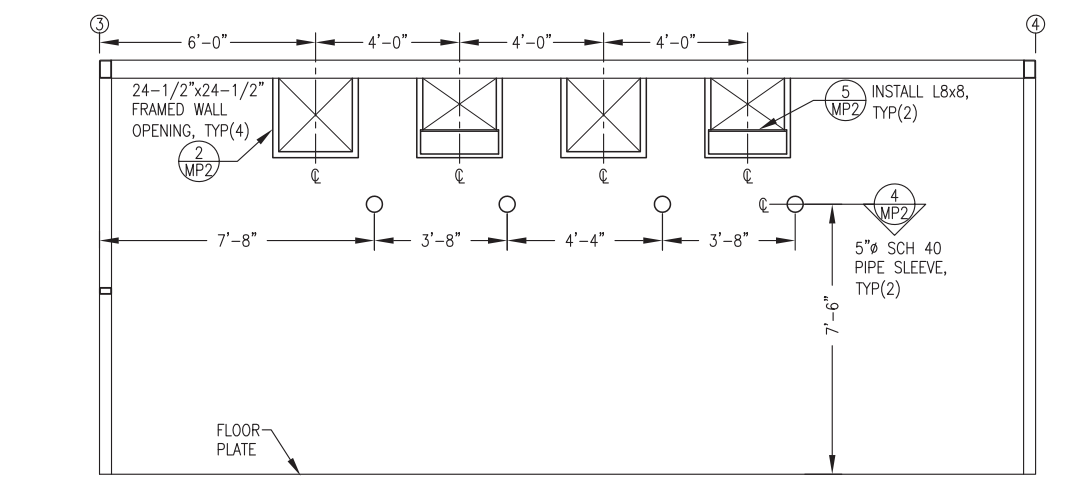
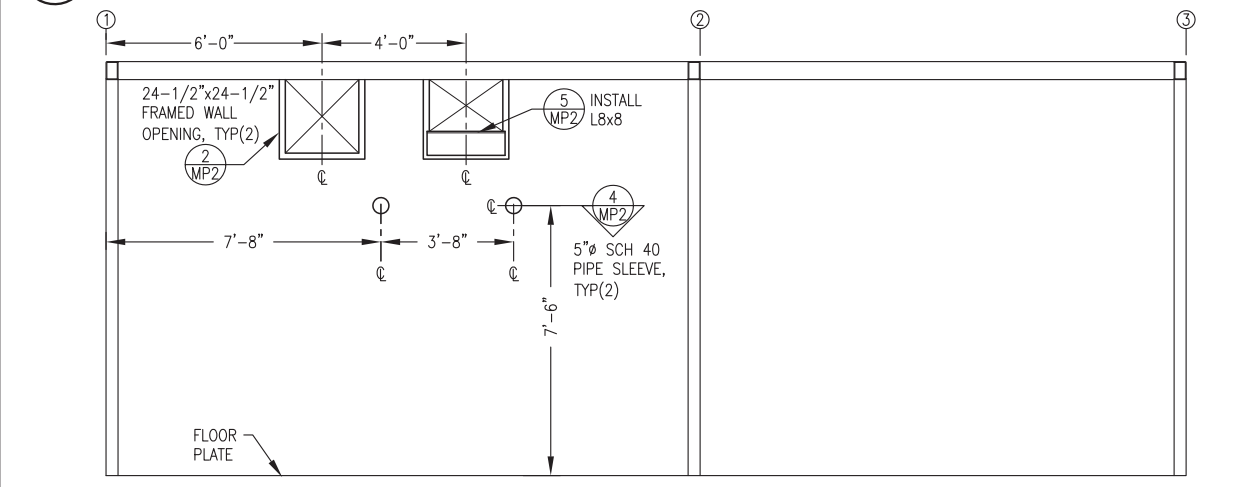
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DRAWING TITLE:  
MECHANICAL PENETRATIONS  
PLANS & DETAILS

MP1  
SHEET 1 OF 2

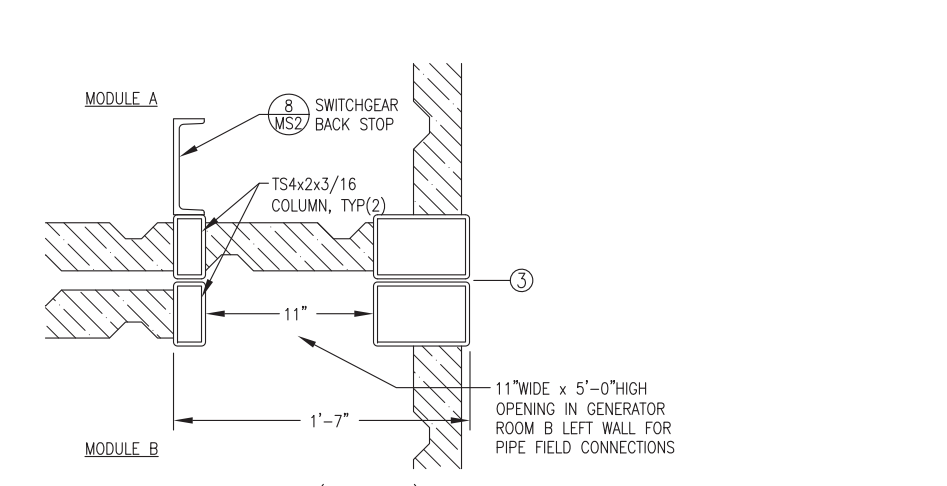
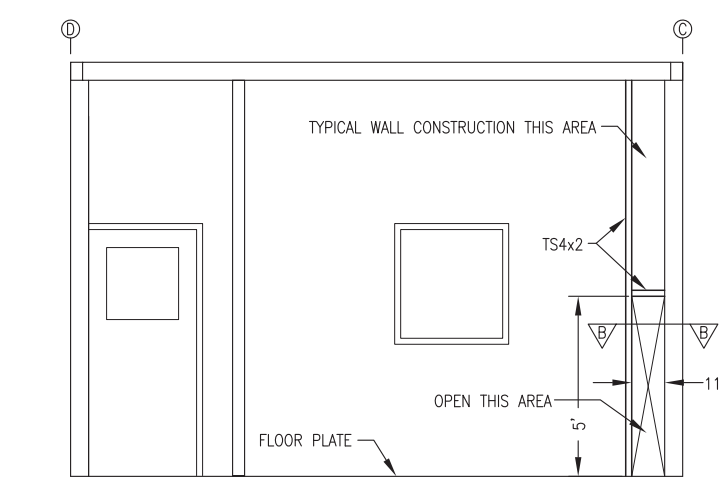
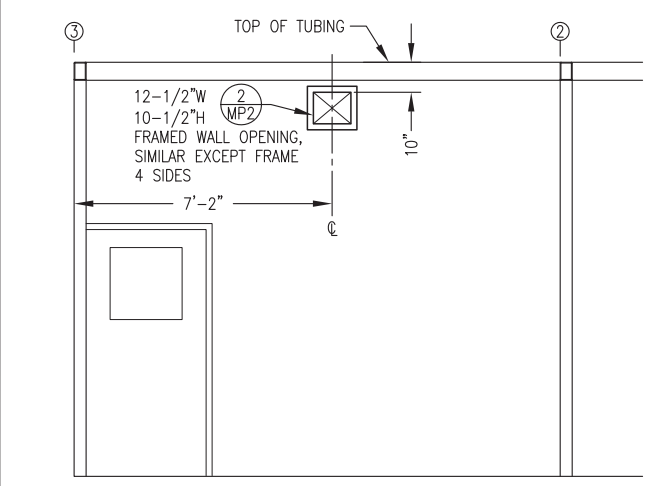


1 MODULE MECHANICAL PENETRATION PLANS  
MP1 3/8"=1'-0"



2 MODULE A BACK WALL MECHANICAL PENETRATION LAYOUT - INTERIOR ELEVATION AT GRIDLINE C  
MP1 3/8"=1'-0"

3 MODULE B BACK WALL MECHANICAL PENETRATION LAYOUT - INTERIOR ELEVATION AT GRIDLINE C  
MP1 3/8"=1'-0"



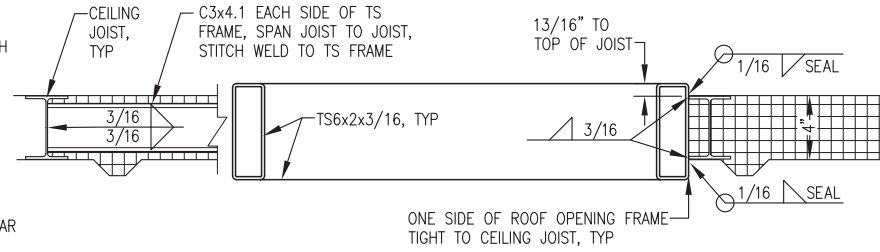
4 EXHAUST DUCT WALL OPENING DETAIL  
MP1 3/8"=1'-0"

5 MODULE B PIPING OPENING DETAIL  
MP1 3/8"=1'-0"

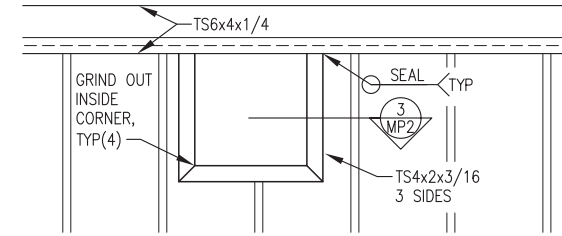
SECTION B-B (NO SCALE)

NOTES:

- 1) FABRICATE FRAMED OPENING WITH MITERED CORNERS AND FULL PENETRATION GROOVE WELDS.
- 2) FABRICATE TO FINISHED INSIDE (CLEAR) DIMENSIONS INDICATED ON PLANS.
- 3) GRIND OUT INSIDE OF MITERED CORNERS TO PROVIDE FULL CLEAR OPENING.



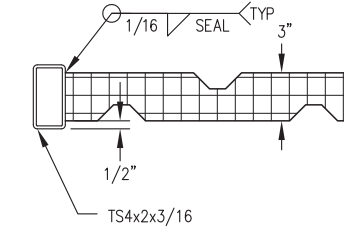
1 TYPICAL ROOF OPENING DETAIL  
MP2 2"=1'-0"



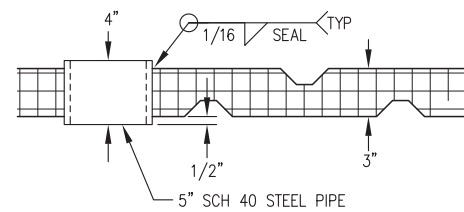
2 TYPICAL WALL OPENING - ELEVATION  
MP2 1"=1'-0"

NOTES:

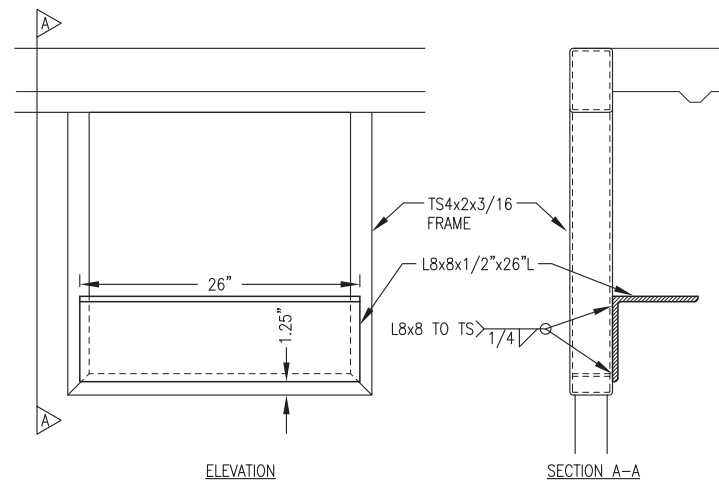
- 1) FABRICATE FRAMED OPENING WITH MITERED CORNERS AND FULL PENETRATION GROOVE WELDS.
- 2) FABRICATE TO FINISHED INSIDE (CLEAR) DIMENSIONS INDICATED ON ELEVATIONS.
- 3) GRIND OUT INSIDE OF MITERED CORNERS TO PROVIDE FULL CLEAR OPENING.



3 TYPICAL SECTION THROUGH WALL OPENING  
MP2 2"=1'-0"



4 TYPICAL PIPE SLEEVE PENETRATION  
MP2 2"=1'-0"



5 EXHAUST SUPPORT AT FRAMED OPENING  
MP2 NO SCALE



STATE OF ALASKA, AIDEA/AEA  
RURAL POWER SYSTEM UPGRADE  
KIPNUK POWER PLANT  
KIPNUK, ALASKA

CONSTRUCTION DOCUMENTS	REVISIONS	DESCRIPTION
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VERIFY SCALES  
0 1"  
THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING



DATE: 9/22/15  
DRAWN BY: JTD  
CHECKED BY: BCG  
JOB NUMBER:

DRAWING TITLE:  
MECHANICAL PENETRATIONS DETAILS

MP2  
SHEET 2 OF 2

## APPENDIX C. BID SCHEDULE

1. **Scope** – Furnish a fabricated steel module structure. Note that the module shall be fabricated in two sections (shipping splits) to allow them to be shipped separately and field connected into a single structure.
2. **Submittals** - Submittals shall be provided to the Authority for review and approval prior to beginning fabrication. Submittals shall include complete shop drawings indicating all details of fabrication and assembly plus manufacturer's literature for paint.
3. **Progress Reports** – Upon commencement of assembly work, progress reports shall be provided to the Authority every two working days. Reports shall include a brief verbal description and digital photographs of work completed. Adequate photographs shall be provided to document each step in the fabrication procedure. Each report shall be submitted via e-mail within one working day of completion of the work included.
4. **Inspection** - The work will be inspected by the Authority's Project Manager at the Contractor's fabrication facility during the fabrication process. A final inspection will be performed and approval will be issued prior to items being released for shipment. The Contractor shall provide a minimum twenty four hours' notice prior to the following critical progress inspections:
  - Insulation – Prior to installing insulation in floor, walls, and ceiling.
  - Sandblasting – Prior to application of any coatings.
  - Coatings – After application of each coat and prior to application of next coat.
  - Final – Prior to loading for shipment.
5. **Fabrication Work** - The finished module shall include all structural steel fabrications, steel plate interior and exterior surfaces, partition walls, insulation, panel penetrations, lifting eyes, threaded studs, mechanical supports, and other details as indicated on the referenced drawings. All interior and exterior surfaces shall be prepped and painted as indicated.
6. **Shipping Splits** – The two shipping splits shall be drilled and bolted together as part of the shop fabrication process to verify fit. The shipping splits shall be taken apart prior to coating. All required fasteners shall be shipped loose. Note that shop fit will not include the sticky butyl gaskets.
7. **Exclusions** - The following items are not part of the work associated with this bid: site work; foundation; exterior stairs and catwalks including catwalk support beams; doors and windows; roof trusses and roofing system; fascia, soffit, and trim; power generation equipment; radiators and coolers; electrical systems; and mechanical systems. See notes on drawings for specific exclusion items.
8. **Preparation for Shipping** – After final inspection and acceptance the module will be prepared for delivery to AEA Warehouse. Preparation means the ceiling penetrations will be covered with non-permanent 18-gauge sheet metal caps set on top of the frames and sealed watertight.
9. **Delivery** – The module shall be delivered to the F.O.B. point. The bidder shall provide the Authority with a minimum of 48-hour notice prior to delivery. The Authority will provide labor and equipment for unloading the module from the delivery truck at the F.O.B. point at no cost to the bidder.

10. **F.O.B. Point** – is Alaska Energy Authority shop at 2601 Commercial Drive, Anchorage, AK 99501, (907) 771-3092.
11. **Pricing** - The bid schedule requires a lump sum bid price. The price includes all costs and profit associated with furnishing the equipment as specified to the F.O.B. point by the delivery date.
12. **Required Delivery Date** – 15 weeks from date of order delivered to the F.O.B. point. If Bidder cannot meet the firm delivery date, Bidder shall seek guidance from the Authority prior to the bid opening date.
13. **Method of Award** - An award will be made in accordance with the bid schedule to the responsive and responsible bidder based on the lowest total price.
14. **Progress Payments** - There will be two progress payments allowed:
  - a. First progress payment may be applied for upon receipt of construction materials at vendor's assembly site, and upon verification through inspection the Authority's Project Manager. Receipts for all materials must accompany invoice. Payment will be for direct cost of goods only.
  - b. Second payment upon final acceptance of work and satisfactory delivery to F.O.B point.

Payments are NET30 on receipt of an invoice.

**15. Bid Schedule**

Line	Description	Lump Sum Price	
15.1	<b>Kipnuk Fabricated Steel Module</b>	1-each	\$

**16. Acknowledge all addenda**

Addendum No	Date Issued	Addendum No	Date Issued	Addendum No	Date Issued

**17. BIDDER'S NOTICE:** By signature on this form, the Bidder certifies that:

- a. The price(s) submitted are independent and without collusion.
- b. The Bidder will comply with the laws of the State of Alaska;
- c. The Bidder will comply with applicable portions of the Federal Civil Rights Act of 1964;
- d. The Bidder will comply with the Equal Employment Opportunity Act and the regulations issued there under by the State and Federal Government; and
- e. The Bidder has reviewed all terms and conditions in this Invitation to Bid.

If any Bidder fails to comply with any of these requirements, the Authority may reject its bid, terminate the contract, or consider the Vendor in default.

Company Submitting Bid	Telephone Number
Address	Fax Number
Authorized Signature	E-mail Address
Print Name	Alaska Business License number DATE: _____

End of Bid Schedule.

**APPENDIX D. Debarment Certification**

**ALASKA INDUSTRIAL DEVELOPMENT AND EXPORT AUTHORITY  
AND ALASKA ENERGY AUTHORITY**

**CERTIFICATION OF CONTRACTOR AND LOWER-TIER PARTICIPANTS REGARDING  
DEBARMENT, SUSPENSION, AND OTHER INELIGIBILITY AND VOLUNTARY EXCLUSION**

Contractor

*PLEASE INSERT YOUR COMPANY'S NAME AND ADDRESS IN THIS BOX*

I, \_\_\_\_\_ hereby certify on behalf  
(Name and title of official)

Of \_\_\_\_\_ that:  
(Name of contractor)

- (1) The prospective contractor and lower tier participant certifies, by submission of this bid or proposal, that neither it nor its "principals" [as defined at 49 C.F.R. § 29.105(p)] is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency. In the event, your company or any principals become ineligible from participating in federally funded transactions, you are required to notify us immediately.
- (2) When the prospective contractor and lower tier participant is unable to certify to the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

By:

\_\_\_\_\_  
(Signature of authorized official)

\_\_\_\_\_  
(Title of authorized official)