



This is not an order.

INVITATION TO BID NUMBER (ITB)	<i>Return this bid to the issuing office below</i>
<p align="center">16163</p> <p>Fabricated Steel Module Structure</p>	<p align="center">Attention – Rich Wooten, CDT, CPSM Contracting Officer Alaska Energy Authority (AEA) or (Authority) 813 West Northern Lights Blvd. Anchorage, AK 99503-2495 rwooten@aidea.org, Ph. 907-771-3019 Fax 907-771-3044</p>

Bid 16163 is issued according to 3AAC 109 Procurement for Alaska Energy Authority (AEA) managed grants on behalf of the Native Village of Kake. Funding for this procurement is from a State of Alaska grant AR-7110027

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Invitation to Bid Schedule

Bid Issued	June 23, 2016
Pre-bid Conference	None
Bid Opening	ITB shall be publically opened at, 2:00 p.m. July 15, 2016 , in the Willow 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: Rich Wooten, CDT, CPSM, Contracting Officer
ITB 16163 Fabricated Steel Module Structure
Opening Date: 2:00 July 15, 2016**

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/q/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. 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

Kake Power Systems Upgrade

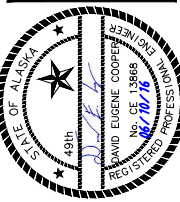
Drawings (attached)

KAKE RURAL POWER SYSTEM UPGRADE

CONSTRUCTION DRAWINGS

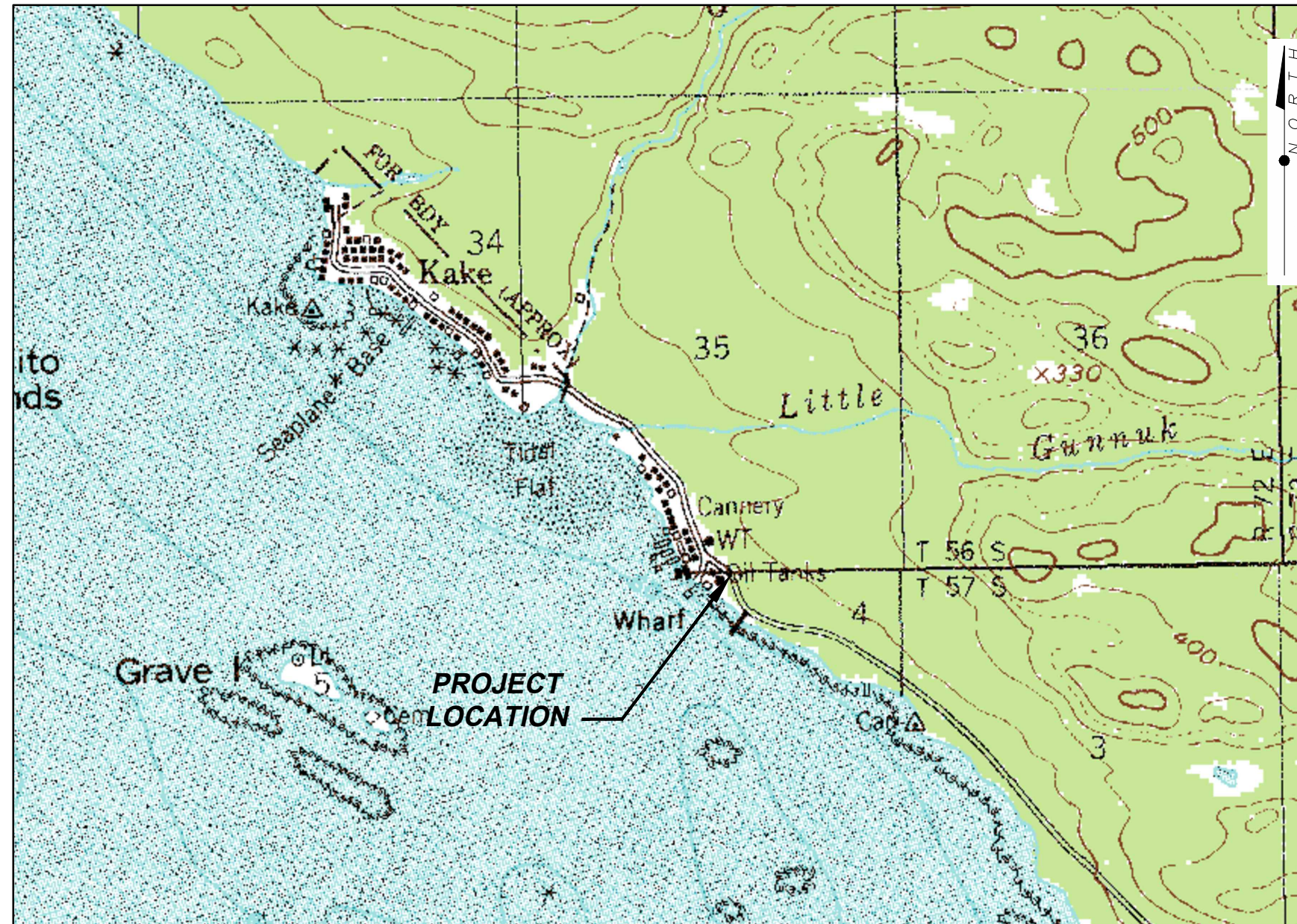
KAKE, ALASKA

REVISIONS	DATE	DESCRIPTION
MARK	5/04/16	95% SUBMITTAL FOR AGENCY REVIEW

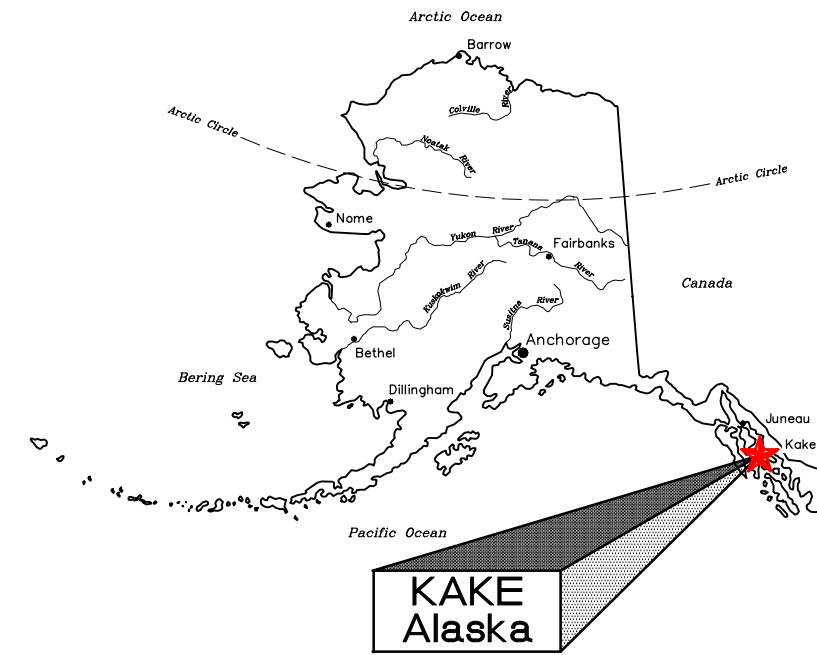


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VICINITY MAP



LOCATION MAP

SCHEDULE B

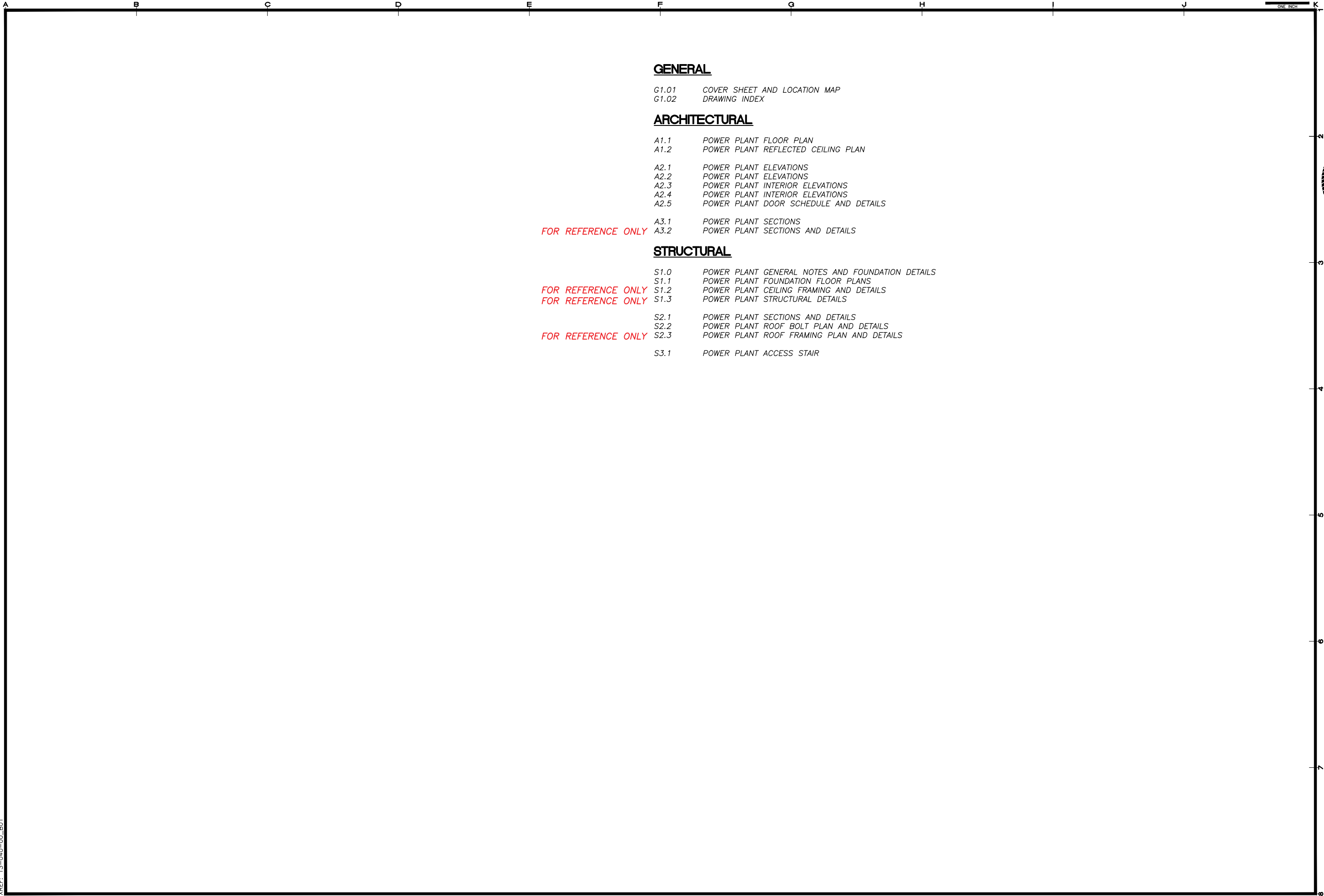
**MODULE FABRICATION ONLY
 CONSTRUCTION DRAWINGS**

ALASKA ENERGY AUTHORITY
 KAKE, ALASKA

SHEET TITLE	
COVER SHEET AND LOCATION MAP	
SHEET	G1.01
DRAWN BY:	HDL
CHECKED BY:	MRS
DATE:	06/10/16
SCALE:	NONE
JOB NUMBER:	13-039

H:\Jobs\13-039 Kake Rural Power Systems Upgrade (AIDEA AEA-Term)\04 - CAD\Drawings Design\13-040-00_PP-G101, 1=1, 06-14-16 at 09:03 by jkk
 LAYOUT: G1.01 - COVER SHEET
 VIEW: G101_H_PDF
 XREF: 13040-00_B01-BK

H:\jobs\13-039 Kake Rural Power Systems Upgrade (AIDEA AEA-Term)\04 - CAD\Drawings Design\13-040_00_PP-0102, 1=1, 06-16-16 at 08:14 by jkk
 LAYOUT: G1.02 - DRAWING INDEX
 VIEW: G10201_H_PDF
 XREF: 13-040-00_B01



GENERAL

- G1.01 COVER SHEET AND LOCATION MAP
- G1.02 DRAWING INDEX

ARCHITECTURAL

- A1.1 POWER PLANT FLOOR PLAN
- A1.2 POWER PLANT REFLECTED CEILING PLAN
- A2.1 POWER PLANT ELEVATIONS
- A2.2 POWER PLANT ELEVATIONS
- A2.3 POWER PLANT INTERIOR ELEVATIONS
- A2.4 POWER PLANT INTERIOR ELEVATIONS
- A2.5 POWER PLANT DOOR SCHEDULE AND DETAILS

FOR REFERENCE ONLY

- A3.1 POWER PLANT SECTIONS
- A3.2 POWER PLANT SECTIONS AND DETAILS

STRUCTURAL

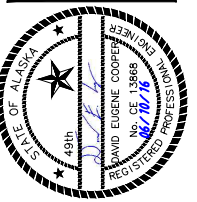
FOR REFERENCE ONLY

- S1.0 POWER PLANT GENERAL NOTES AND FOUNDATION DETAILS
- S1.1 POWER PLANT FOUNDATION FLOOR PLANS
- S1.2 POWER PLANT CEILING FRAMING AND DETAILS
- S1.3 POWER PLANT STRUCTURAL DETAILS

FOR REFERENCE ONLY

- S2.1 POWER PLANT SECTIONS AND DETAILS
- S2.2 POWER PLANT ROOF BOLT PLAN AND DETAILS
- S2.3 POWER PLANT ROOF FRAMING PLAN AND DETAILS
- S3.1 POWER PLANT ACCESS STAIR

REVISIONS	DATE	DESCRIPTION
MARK	5/04/16	95% SUBMITTAL FOR AGENCY REVIEW



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KAKE RURAL POWER SYSTEM UPGRADES
ALASKA ENERGY AUTHORITY
 KAKE, ALASKA

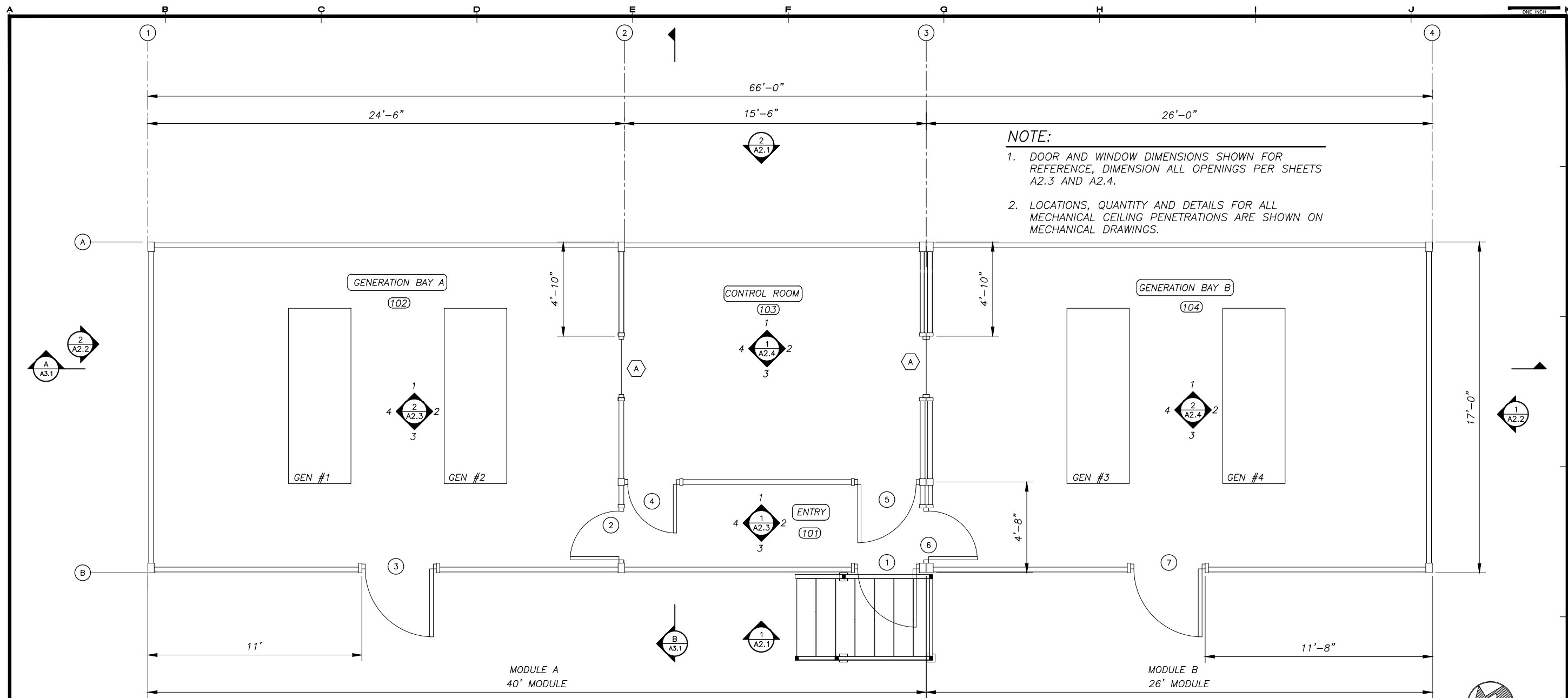
SHEET TITLE
DRAWING INDEX

SHEET
G1.02

DRAWN BY: RSB	CHECKED BY: MRS
DATE: 06/10/16	SCALE: NONE
JOB NUMBER: 13-039	

ONE INCH

H:\Jobs\13-039 Kake Rural Power Systems Upgrade (AIDEA AEA-Term)\04 - CAD\Drawings Design\13-040_00_A1.1-A1.2-PP, 1=1, 06-10-16 at 08:27 by jkk
 LAYOUT: A1.1 - FLOOR PLAN
 XREF: 13-040_00_STRUCUT-PP-BASE, 13040-00_B01-BK



NOTE:
 1. DOOR AND WINDOW DIMENSIONS SHOWN FOR REFERENCE, DIMENSION ALL OPENINGS PER SHEETS A2.3 AND A2.4.
 2. LOCATIONS, QUANTITY AND DETAILS FOR ALL MECHANICAL CEILING PENETRATIONS ARE SHOWN ON MECHANICAL DRAWINGS.

1 FLOOR PLAN - POWER PLANT

A1.1 SCALE: 3/8" = 1'-0"

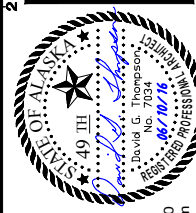
CODE ANALYSIS - 2009 EDITION INTERNATIONAL BUILDING CODE

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: 17'-0" 1 STORY 1125 S.F.	
FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS	REF: IBC-2009, TABLE 601
STRUCTURAL FRAME-OHR, BEARING WALLS-OHR, INTERIOR PARTITIONS-OHR, FLOOR-OHR, ROOF-OHR	
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 1125 S.F./300 S.F. PER OCCUPANT= 4 OCCUPANTS	
MEANS OF EGRESS - TRAVEL DISTANCE	REF: IBC-2009, TABLE 1016.1
REQUIRED 200' PROVIDED < 25'	

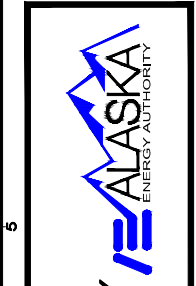
ARCHITECTURAL GENERAL NOTES:

- SEE CIVIL/MECHANICAL SITE PLAN FOR LOCATION AND LAYOUT. PROVIDE SEPARATION TO PROPERTY BOUNDARIES IN ACCORDANCE WITH CODE ANALYSIS. PROVIDE THICKNESS AS INDICATED ON DRAWINGS. MECHANICALLY FASTEN FLOOR INSULATION TIGHT TO FLOOR.
- 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
- 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.
- 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.
- 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.
- 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.
- SEE SHEET A3.2 FOR DESCRIPTION OF FIELD INSTALLED ROOF SYSTEM.
- 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.
- 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
- 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.

REVISIONS	DATE	DESCRIPTION
1	5/04/16	95% SUBMITTAL FOR AGENCY REVIEW



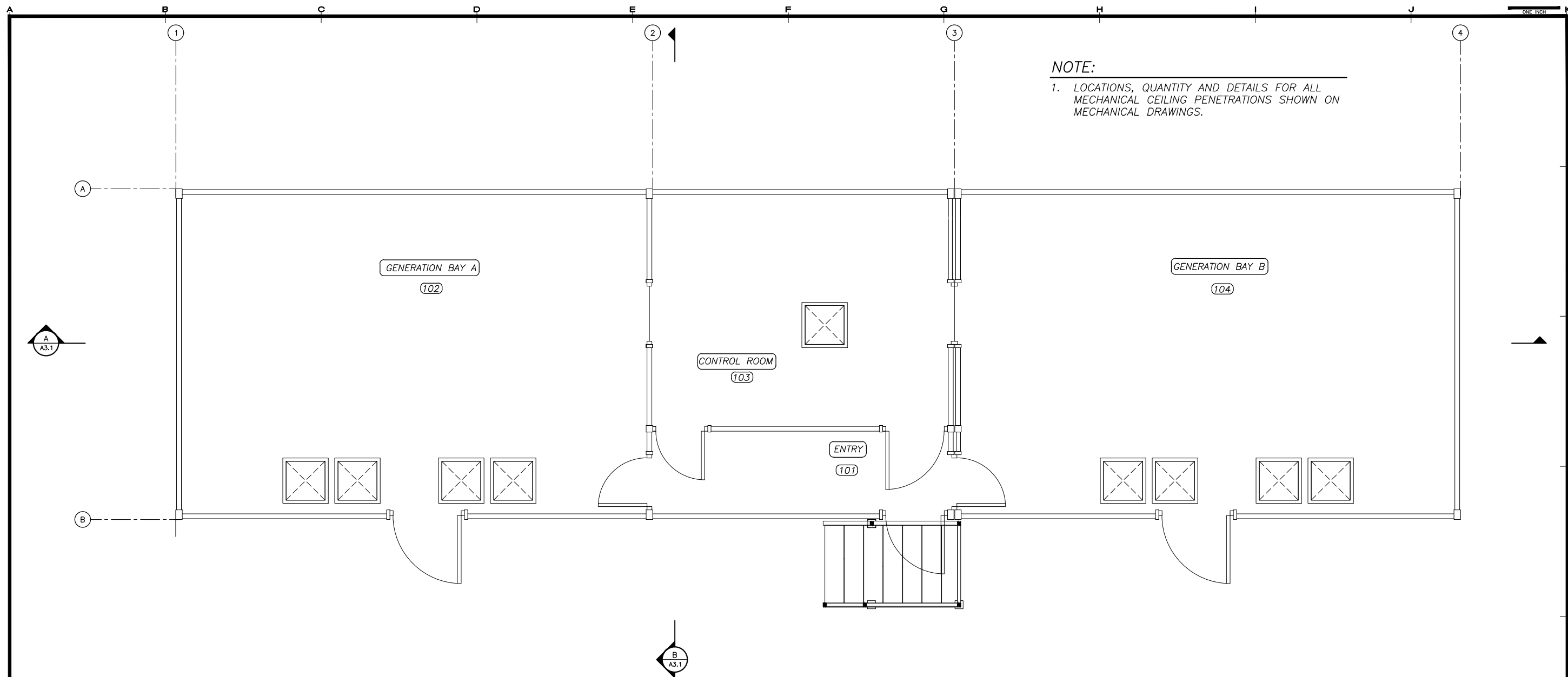
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SHEET TITLE	
POWER PLANT FLOOR PLAN	
SHEET	
A1.1	
DRAWN BY: KK	CHECKED BY: DGT
DATE: 06/10/16	SCALE: AS SHOWN
JOB NUMBER: 13-039	

H:\jobs\13-039 Kake Rural Power Systems Upgrade (AIDEA AEA-Term)\04 - CAD\Drawings Design\13-040_00_A1.1-A1.2-PP, 1=1, 06-10-16 at 08:27 by jkk
 LAYOUT: A1.2 - REFLECTED CEILING PLAN
 XREF: 13-040_00_STRUC-PP-BASE, 13040-00_B01-BK

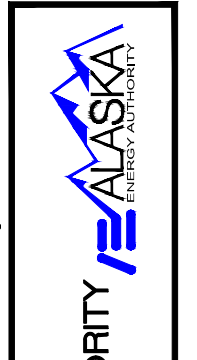


NOTE:
 1. LOCATIONS, QUANTITY AND DETAILS FOR ALL MECHANICAL CEILING PENETRATIONS SHOWN ON MECHANICAL DRAWINGS.

REVISIONS	DATE	DESCRIPTION
MARK	5/04/16	95% SUBMITTAL FOR AGENCY REVIEW



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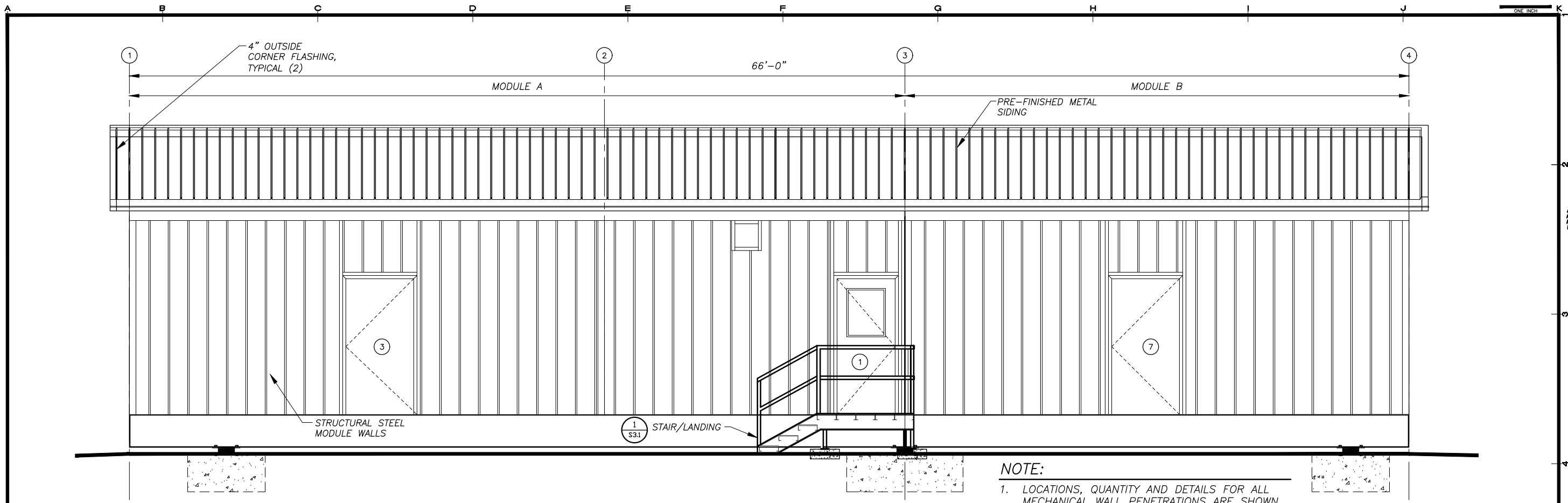
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SHEET TITLE	
POWER PLANT REFLECTED CEILING PLAN	
SHEET	
A1.2	
DRAWN BY:	CHECKED BY:
KK	DGT
DATE:	SCALE:
06/10/16	AS SHOWN
JOB NUMBER:	
13-039	

1 REFLECTED CEILING PLAN - POWER PLANT
 SCALE: 3/8" = 1'-0"

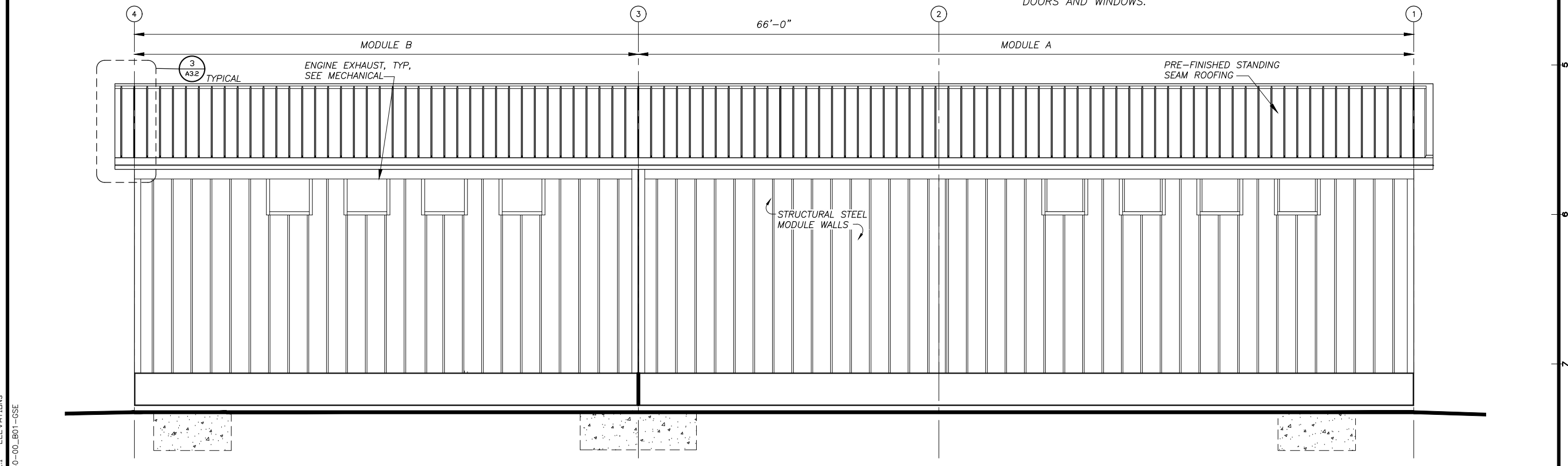


H:\Jobs\13-039 Kake Rural Power Systems Upgrade (AIDEA AEA-Term)\04 - CAD\Drawings Design\13-040_00_A2.1-A2.5-PP, I=1, 06-10-16 at 09:08 by jkk
 LAYOUT: A2.1 - ELEVATIONS
 XREF: 13040-00_B01-GSE



1 EAST ELEVATION - FRONT
 A2.1 SCALE: 3/8" = 1'-0"

NOTE:
 1. LOCATIONS, QUANTITY AND DETAILS FOR ALL MECHANICAL WALL PENETRATIONS ARE SHOWN ON MECHANICAL SHEETS.
 2. OWNER SHALL FURNISHED AND INSTALL DOORS AND WINDOWS.



2 WEST ELEVATION - BACK
 A2.1 SCALE: 3/8" = 1'-0"

REVISIONS	MARK	DATE	DESCRIPTION



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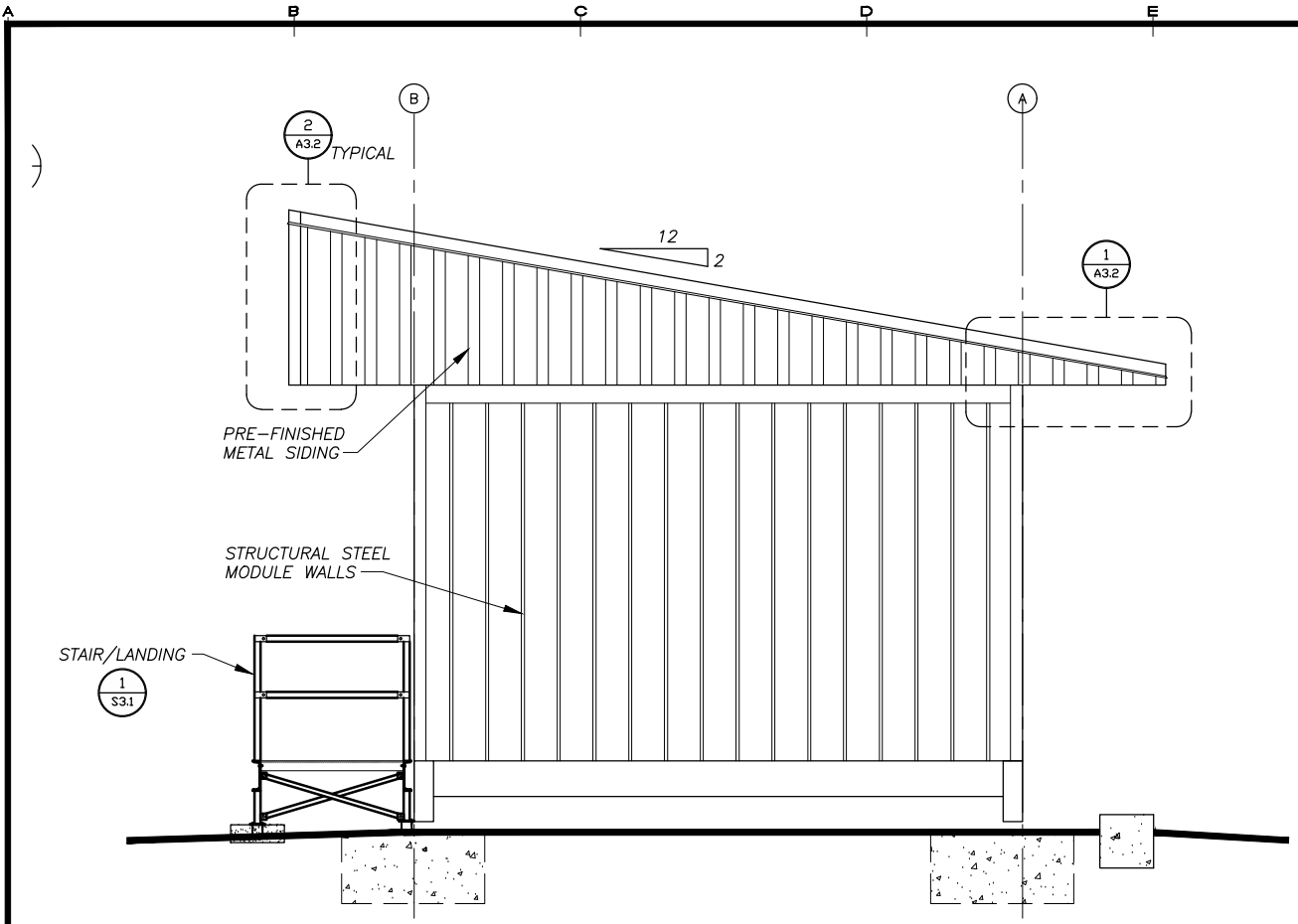
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ALASKA ENERGY AUTHORITY
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SHEET TITLE
POWER PLANT ELEVATIONS

SHEET
A2.1

DRAWN BY: **KK** CHECKED BY: **DGT**
 DATE: **06/10/16** SCALE: **AS SHOWN**
 JOB NUMBER: **13-039**

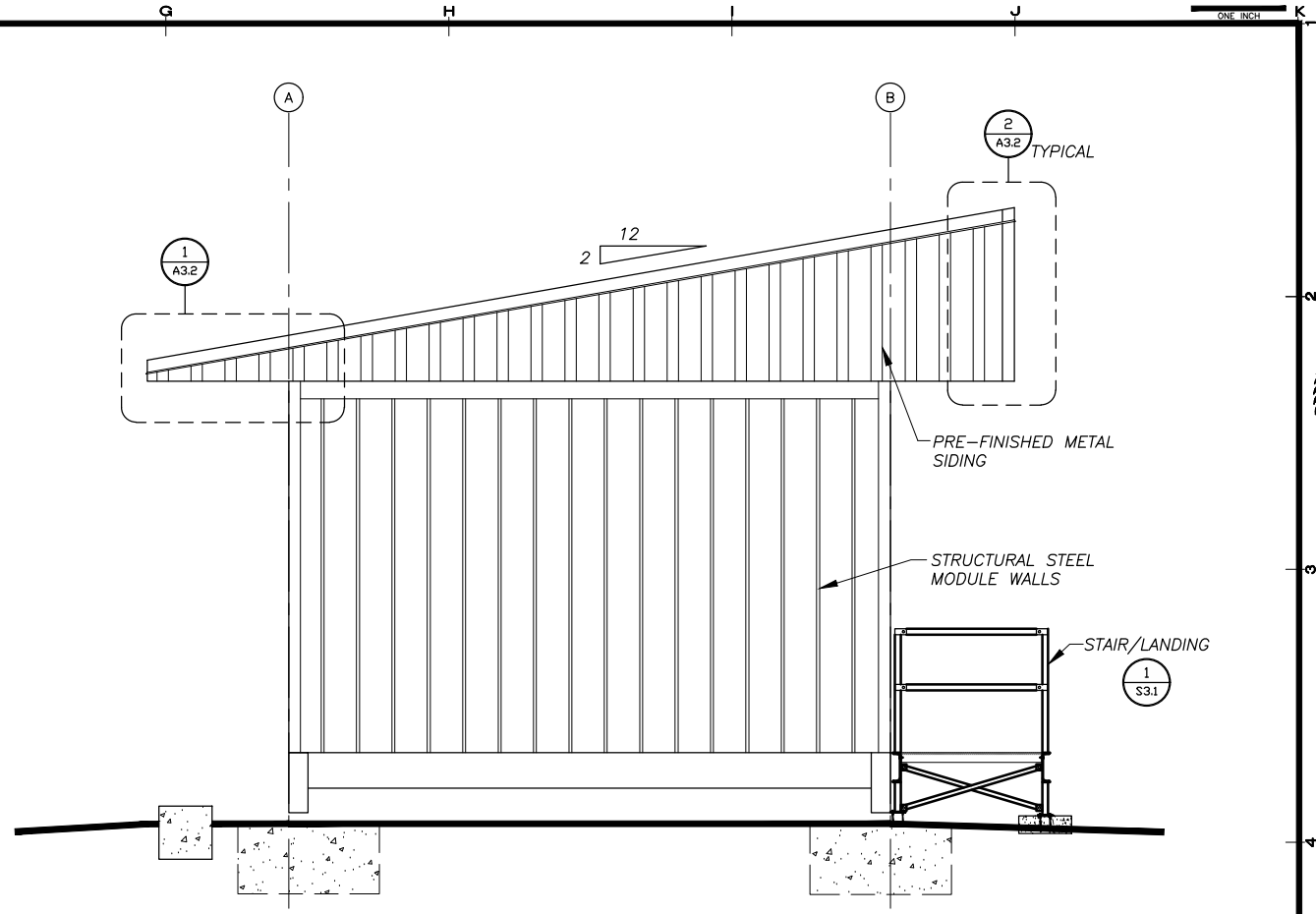
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 LAYOUT: A2.2 - ELEVATIONS
 XREF: 13040-00_B01-GSE



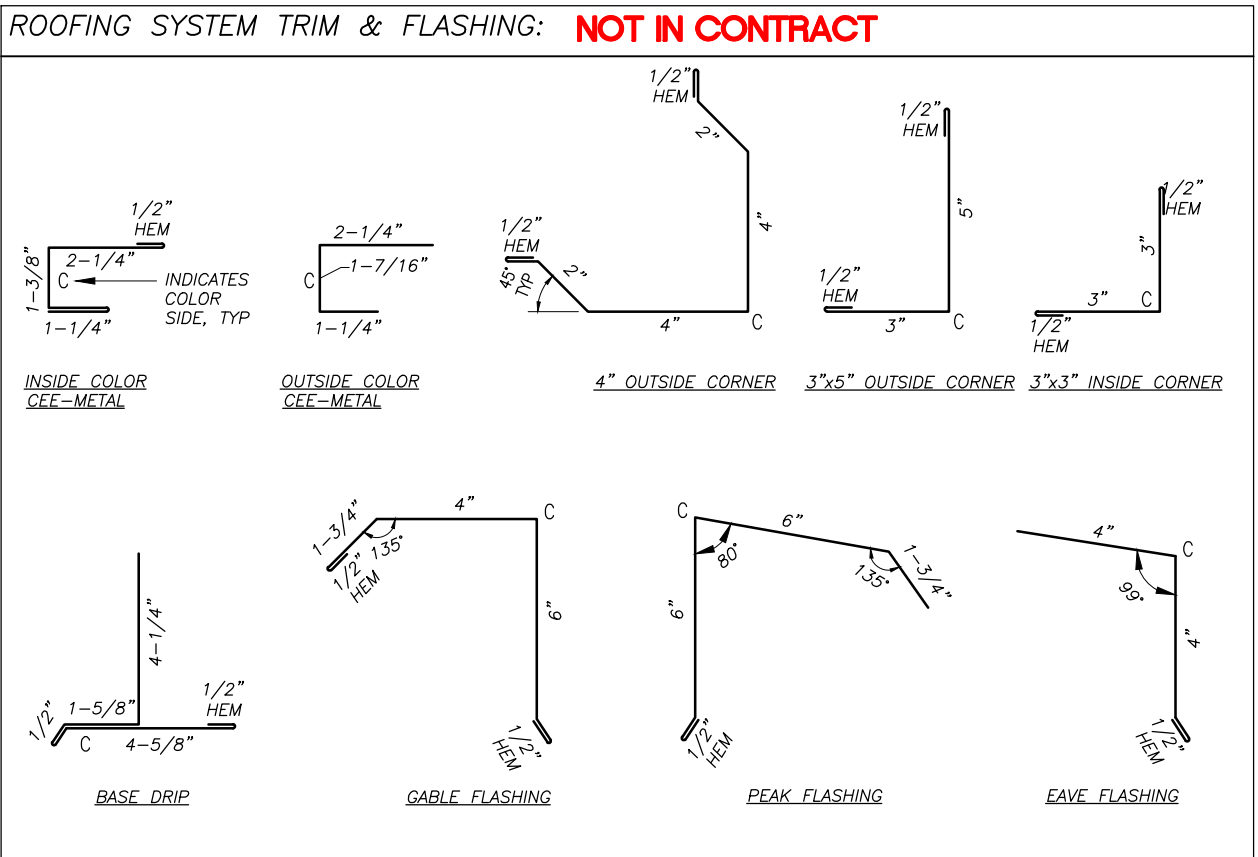
1 NORTH ELEVATION
 SCALE: 3/8" = 1'-0"

- ROOFING SYSTEM NOTES: NOT IN CONTRACT**
- | | | | |
|--|--|---|---|
| <p>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.</p> | <p>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.</p> | <p>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.</p> | <p>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.</p> |
|--|--|---|---|

ROOF AND
 FOUNDATION
 NOT IN
 CONTRACT



2 SOUTH ELEVATION
 SCALE: 3/8" = 1'-0"



REVISIONS	MARK	DATE	DESCRIPTION

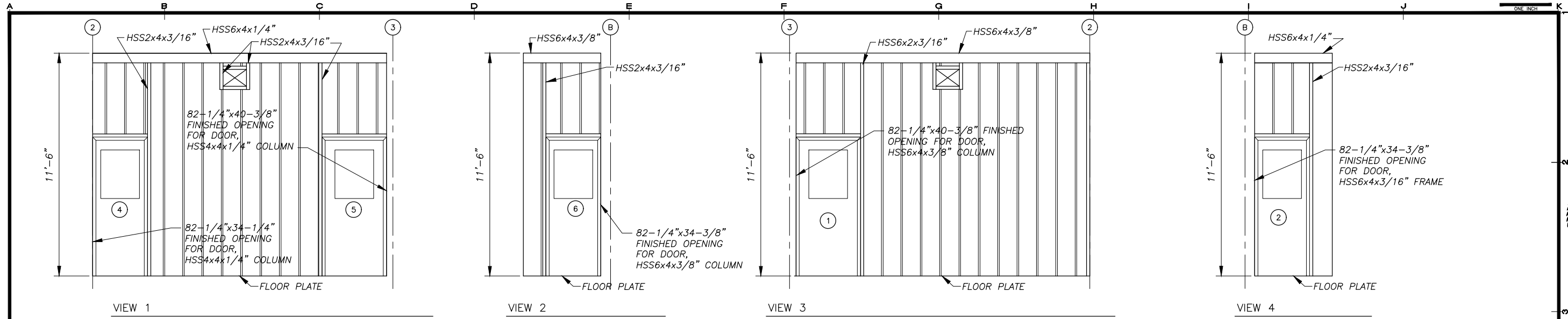


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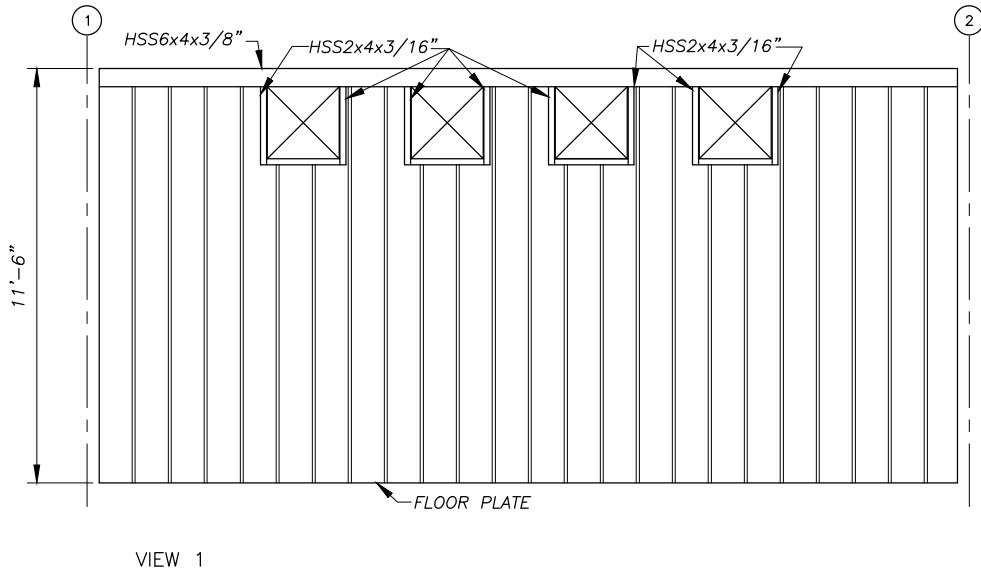
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 KAKE, ALASKA

SHEET TITLE: POWER PLANT ELEVATIONS
 SHEET: A2.2
 DRAWN BY: KK CHECKED BY: DGT
 DATE: 06/10/16 SCALE: AS SHOWN
 JOB NUMBER: 13-039

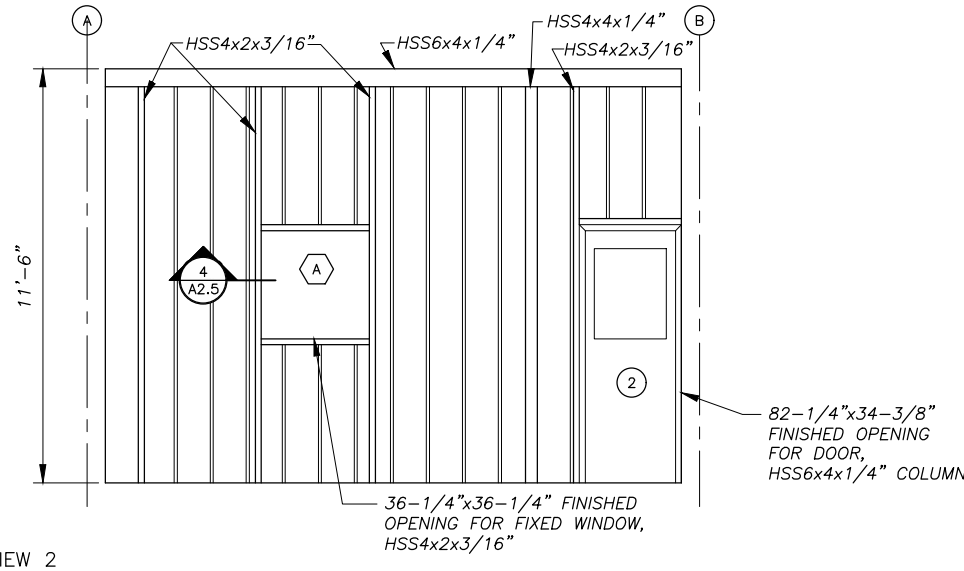
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 LAYOUT: A2.3 - INTERIOR ELEVATIONS
 XREF: 13040-00_B01-GSE



1 INTERIOR ELEVATION - ENTRY ROOM No. 101
 A2.3 SCALE: NONE



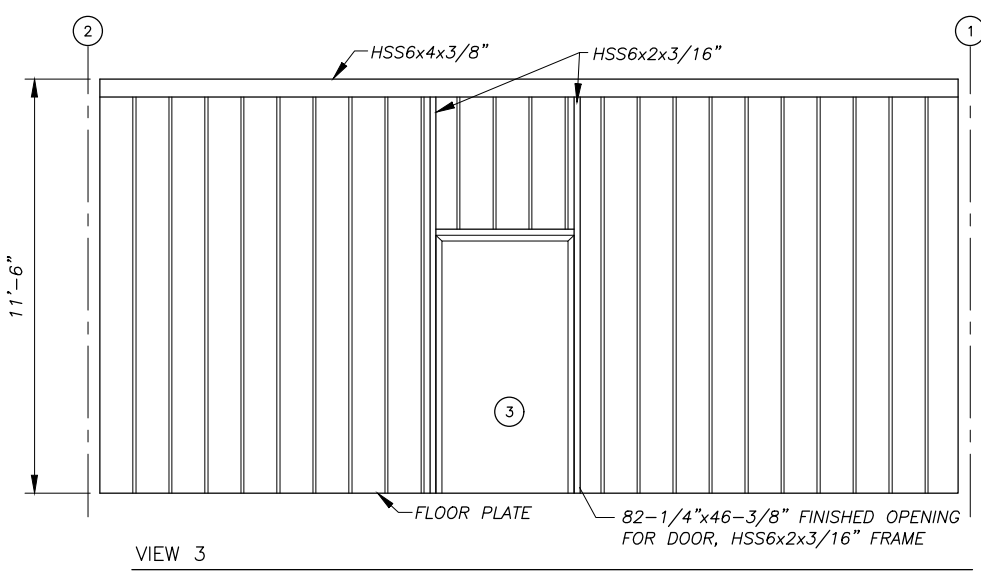
VIEW 1



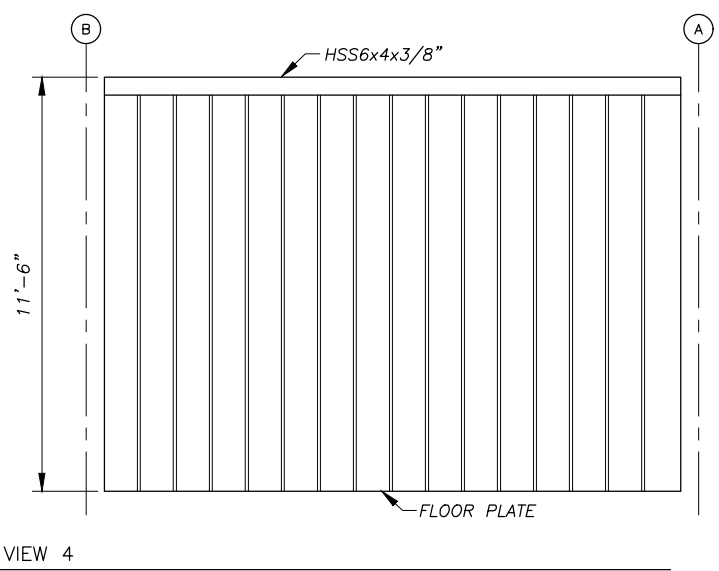
VIEW 2

NOTE:

1. LOCATIONS, QUANTITY AND DETAILS FOR ALL MECHANICAL WALL PENETRATIONS SHOWN ON MECHANICAL SHEETS.
2. OWNER SHALL FURNISH AND INSTALL DOORS AND WINDOWS.



VIEW 3



VIEW 4

2 INTERIOR ELEVATION - GENERATION BAY ROOM No. 102
 A2.3 SCALE: NONE

REVISIONS	DATE	DESCRIPTION



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SHEET TITLE
POWER PLANT INTERIOR ELEVATIONS

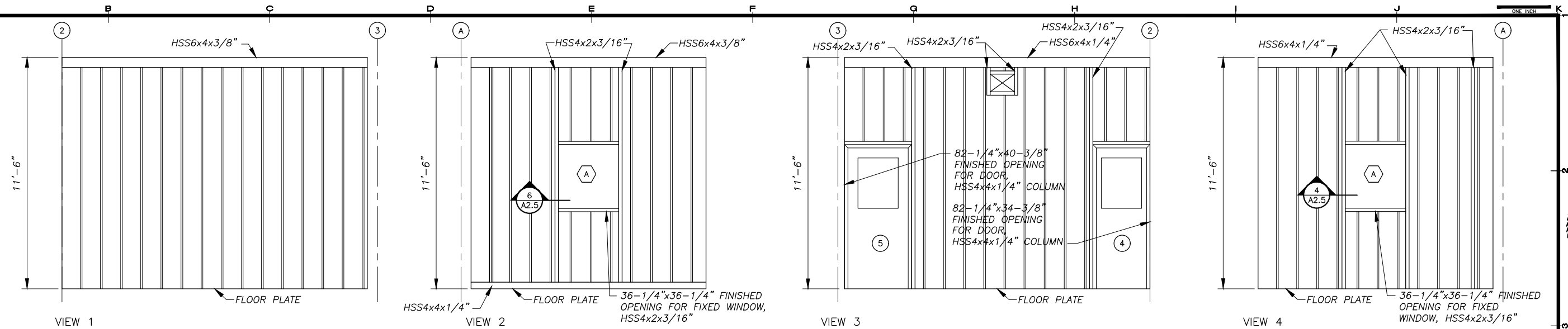
SHEET
A2.3

DRAWN BY: **KK** CHECKED BY: **DGT**

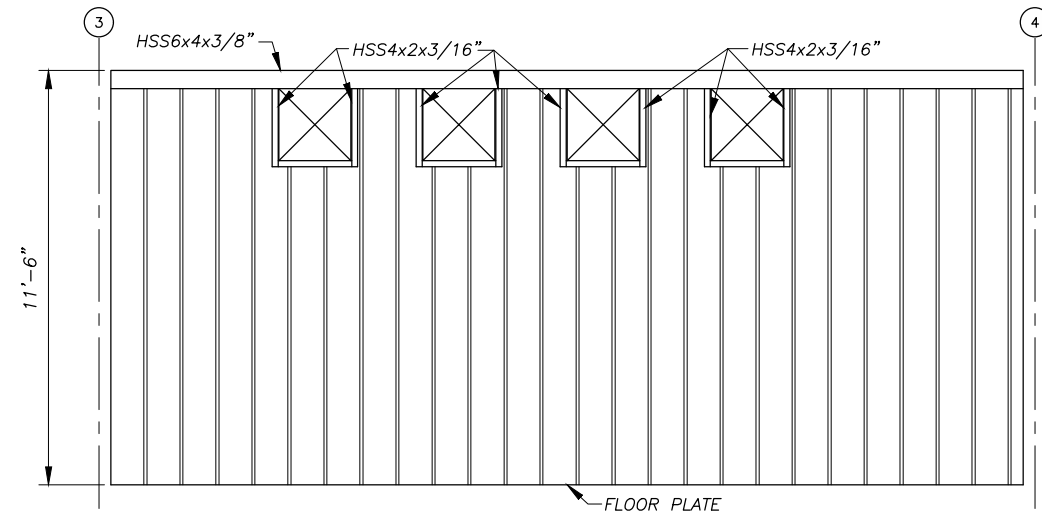
DATE: **06/10/16** SCALE: **AS SHOWN**

JOB NUMBER: **13-039**

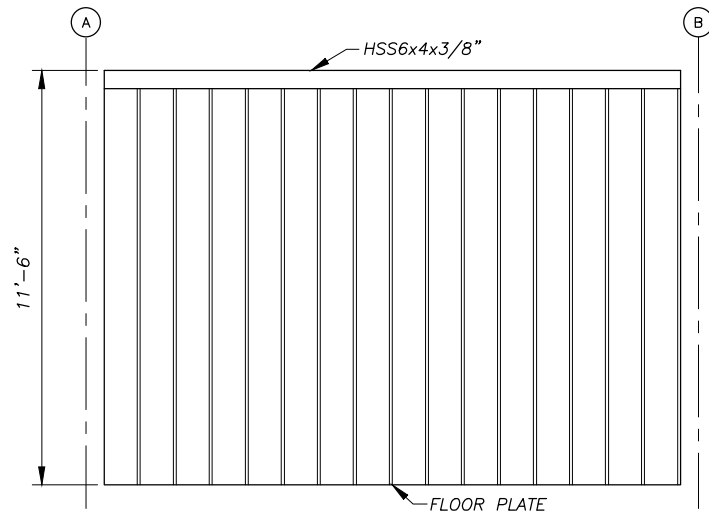
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 LAYOUT: A2.4 - INTERIOR ELEVATIONS
 XREF: 13040-00_B01-05E



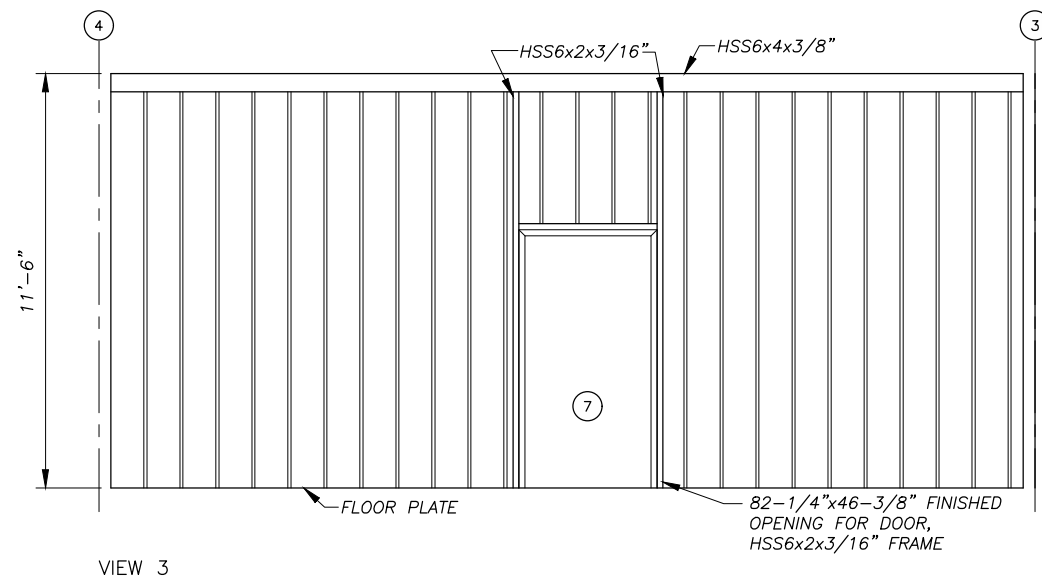
1 INTERIOR ELEVATION - CONTROL ROOM No. 103
 SCALE: NONE



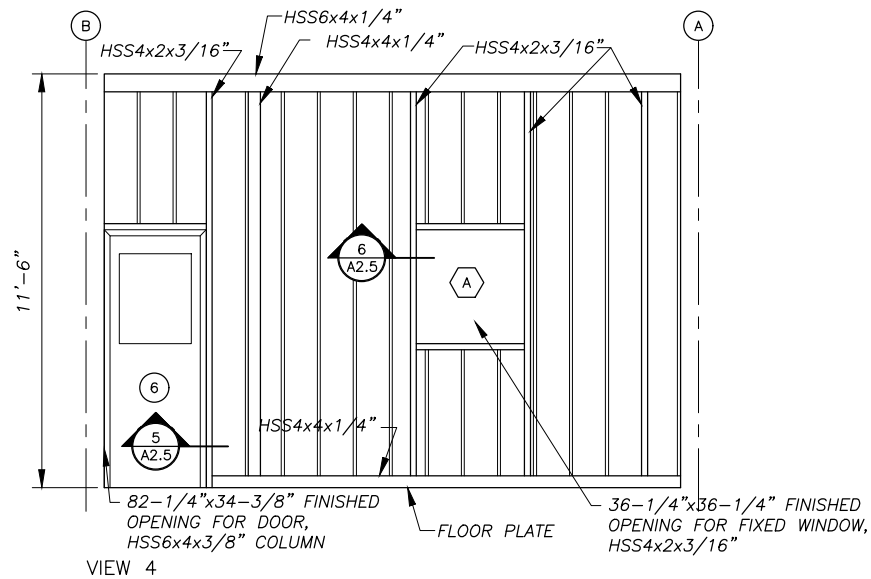
VIEW 1



VIEW 2



VIEW 3



VIEW 4

NOTE:

1. LOCATIONS, QUANTITY AND DETAILS FOR ALL MECHANICAL WALL PENETRATIONS SHOWN ON MECHANICAL SHEETS.
2. OWNER SHALL FURNISH AND INSTALL DOORS AND WINDOWS.

2 INTERIOR ELEVATION - GENERATION BAY ROOM No. 102
 SCALE: NONE

REVISIONS	MARK	DATE	DESCRIPTION



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SHEET TITLE
POWER PLANT INTERIOR ELEVATIONS

SHEET
A2.4

DRAWN BY: **KK** CHECKED BY: **DGT**
 DATE: **06/10/16** SCALE: **AS SHOWN**
 JOB NUMBER: **13-039**

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
1	3'-0"	6'-8"	1-3/4"	16 GA. H.M.	INSULATED	24"x24" RE-LIGHT {2}	2/A2.5	1/A2.5	N/A	16 GA. H.M.	WELDED	SINGLE RABBETED	NONE	HW-1
2	2'-6"	6'-8"	1-3/4"	16 GA. H.M.	INSULATED	24"x24" RE-LIGHT {2}	4/A2.5	1/A2.5	N/A	16 GA. H.M.	WELDED	SINGLE RABBETED	NONE	HW-2
3	3'-6"	6'-8"	1-3/4"	16 GA. H.M.	INSULATED		2/A2.5	1/A2.5	N/A	16 GA. H.M.	WELDED	SINGLE RABBETED	NONE	HW-3
4	2'-6"	6'-8"	1-3/4"	16 GA. H.M.	INSULATED	24"x24" RE-LIGHT {2}	4/A2.5	1/A2.5	N/A	16 GA. H.M.	WELDED	SINGLE RABBETED	NONE	HW-2
5	3'-0"	6'-8"	1-3/4"	16 GA. H.M.	INSULATED	24"x24" RE-LIGHT {2}	4/A2.5	1/A2.5	N/A	16 GA. H.M.	WELDED	SINGLE RABBETED	NONE	HW-4
6	2'-6"	6'-8"	1-3/4"	16 GA. H.M.	INSULATED	24"x24" RE-LIGHT {2}	5/A2.5	1/A2.5	N/A	16 GA. H.M.	WELDED	SINGLE RABBETED	NONE	HW-2
7	3'-6"	6'-8"	1-3/4"	16 GA. H.M.	INSULATED		2/A2.5	1/A2.5	N/A	16 GA. H.M.	WELDED	SINGLE RABBETED	NONE	HW-3

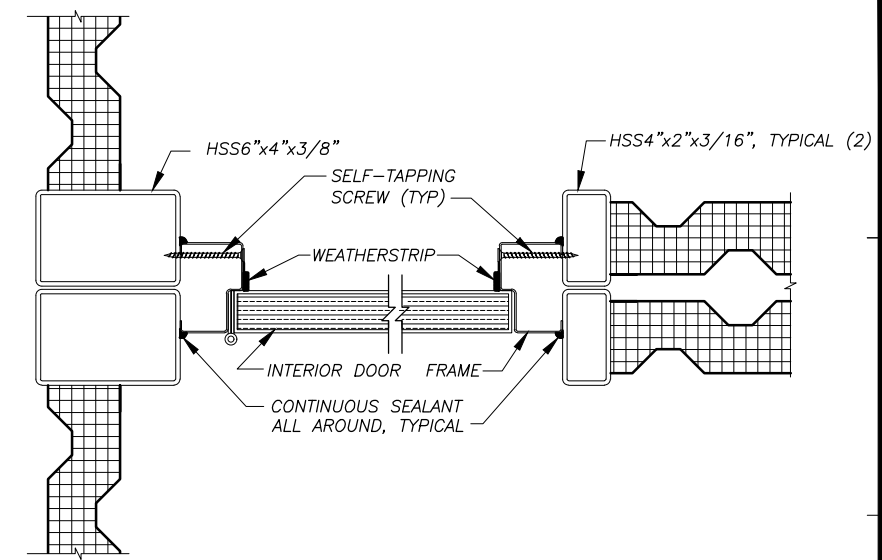
DOOR HARDWARE:				DOOR FRAME PROFILE:			
HW-1				HW-3			
3 EA HINGES	HAGER	BB1191	4.5 x 4.5NRP x 630	3 EA HINGES	HAGER	BB1191	4.5 x 4.5NRP x 630
1 EA EXIT DEVICE	PRECISION	2108	x 4908AX3 x 630	1 EA EXIT LOCK	SCHLAGE	ND25D	x RHODES x 626
1 EA CORE	BEST	BROWN CONSTRUCTION CORE		1 EA OVERHEAD STOP	ROCKWOOD	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				
HW-2				HW-4			
3 EA HINGES	HAGER	BB1191	4.5 x 4.5 x 630	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:

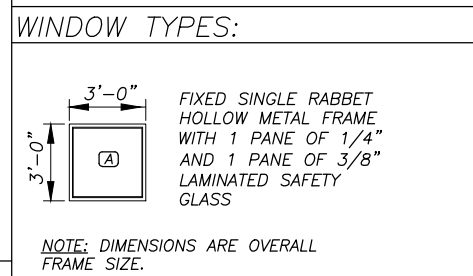
{1} ALL DOORS FURNISHED WITH TOPS INVERTED, CAULKED, AND SEALED.

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

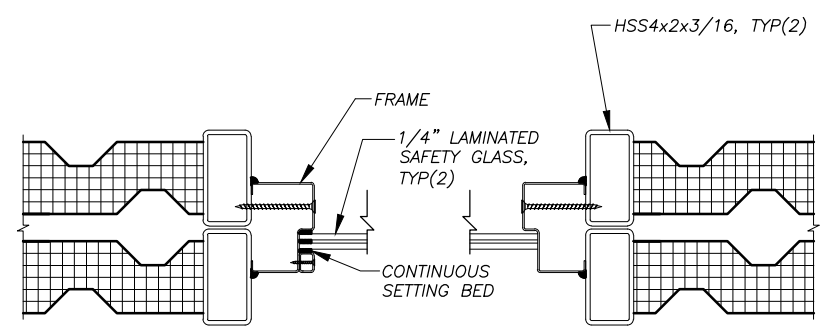
{3} DOORS AND DOOR FRAMES GALVANIZED AND FACTORY PRIMED. HOLLOW METAL WINDOW FRAMES FACTORY PRIMED. SPRAY FINISH ALL DOORS AND FRAMES WITH TWO COATS OF SHERWIN WILLIAMS MACROPOXY 646, NO SUBSTITUTES, COLOR STRUCTURAL GRAY 4031.



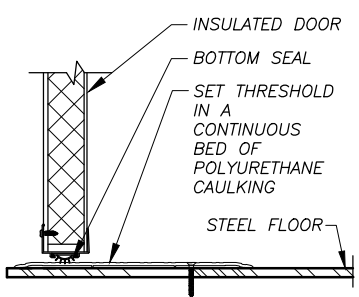
5 INTERIOR DOOR JAMB/HEAD
SCALE: NONE



4 WINDOW TYPES:
NOTE: DIMENSIONS ARE OVERALL FRAME SIZE.



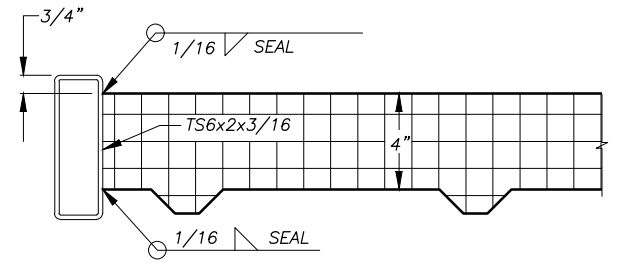
6 INTERIOR WINDOW JAMB/HEAD
SCALE: NONE



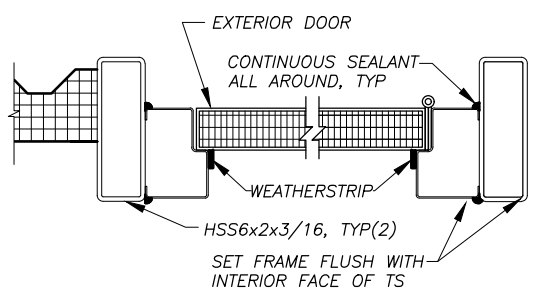
1 TYPICAL DOOR THRESHOLD
SCALE: N.T.S.

FRAMED OPENING NOTES:

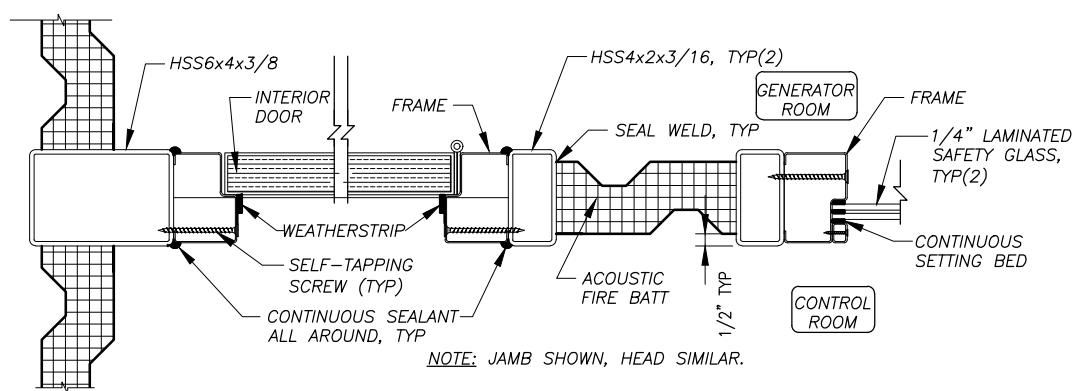
- FABRICATE FRAMED OPENINGS FOR DOORS, WINDOWS, ETC. WITH MITERED CORNERS AND FULL PENETRATION GROOVE WELDS.
- FABRICATE TO FINISHED INSIDE (CLEAR) DIMENSIONS INDICATED ON REFLECTED CEILING PLAN.
- GRIND OUT INSIDE OF MITERED CORNERS TO PROVIDE FULL CLEAR OPENING.



3 FINISH CEILING OPENING DETAIL
SCALE: NONE



2 TYPICAL EXTERIOR DOOR JAMB/HEAD
SCALE: 3' = 1'-0"



4 INTERIOR DOOR AND WINDOW JAMB/HEAD
SCALE: 3' = 1'-0"

NOTE:
1. OWNER SHALL FURNISH AND INSTALL DOORS AND WINDOWS.

H:\Jobs\13-039 Kake Rural Power Systems Upgrade (AIDEA AEA-Term)\04 - CAD\Drawings Design\13-040_00_A2.1-A2.5-PP_1=1_06-10-16 at 09:08 by jkk LAYOUT: A2.5 - DDDR SCHEDULE XREF: 13040-00_B01-GSE

REVISIONS	DATE	DESCRIPTION

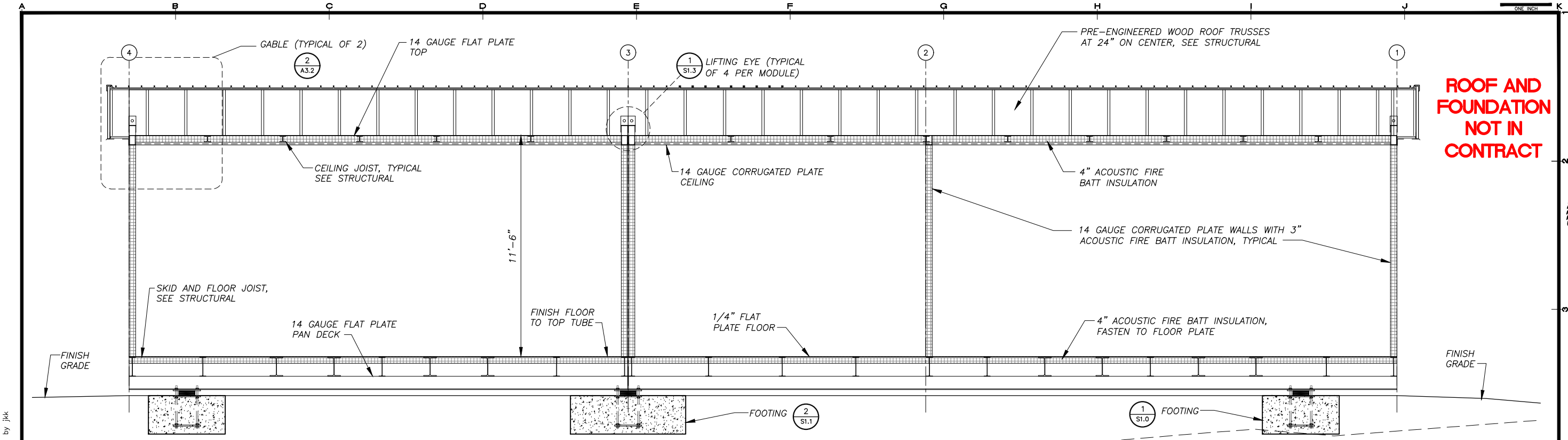


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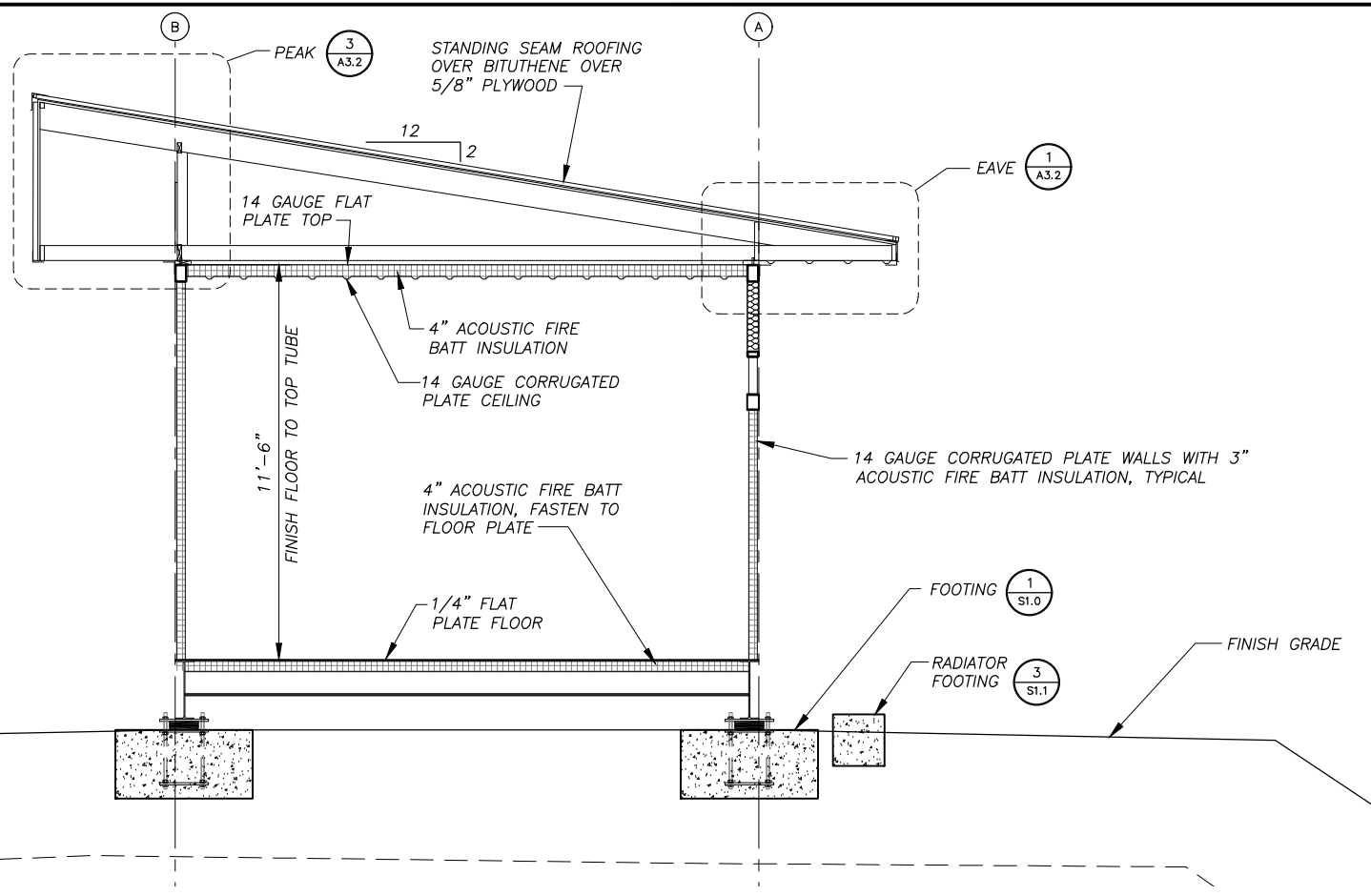
SHEET TITLE: POWER PLANT DOOR SCHEDULE AND DETAILS
SHEET: A2.5
DRAWN BY: KK CHECKED BY: DGT
DATE: 06/10/16 SCALE: AS SHOWN
JOB NUMBER: 13-039



ROOF AND FOUNDATION NOT IN CONTRACT

SECTION A A3.1
SCALE: 3/8" = 1'-0"

ROOF AND FOUNDATION NOT IN CONTRACT



SECTION B A3.1
SCALE: 1/4" = 1'-0"

REVISIONS	MARK	DATE	DESCRIPTION



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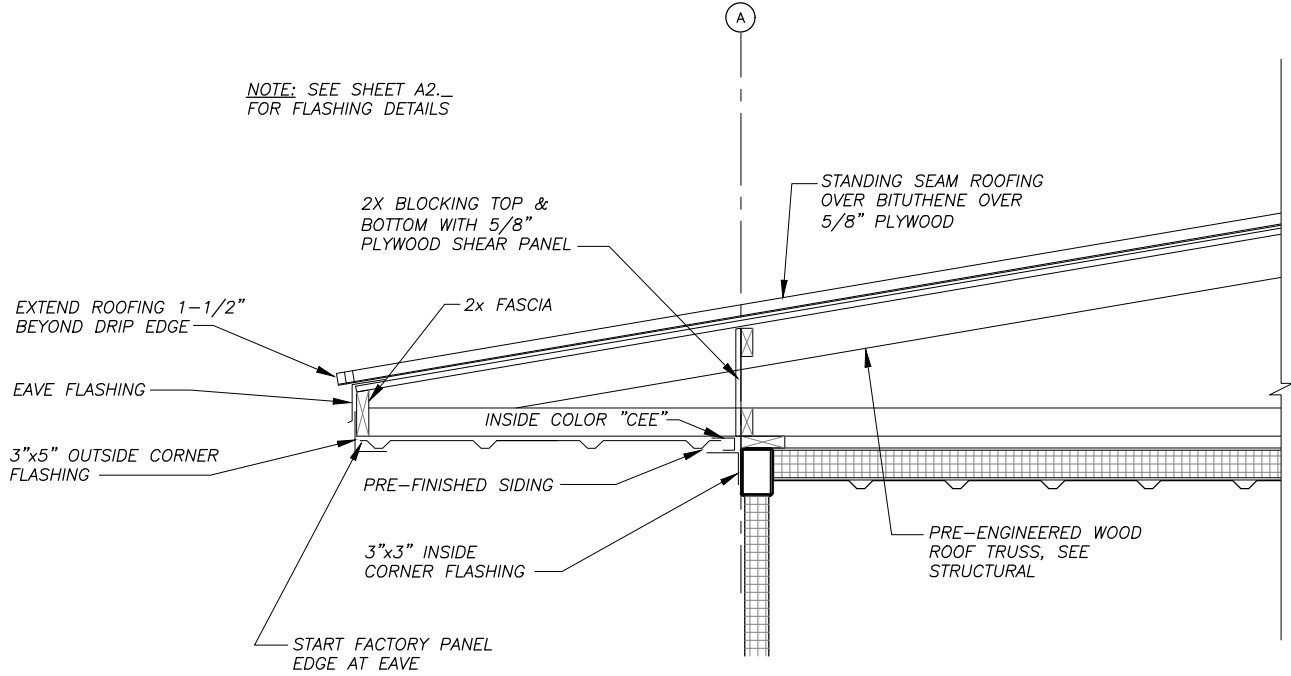
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SHEET TITLE: POWER PLANT SECTIONS
SHEET: A3.1
DRAWN BY: KK
CHECKED BY: DGT
DATE: 06/10/16
SCALE: AS SHOWN
JOB NUMBER: 13-039

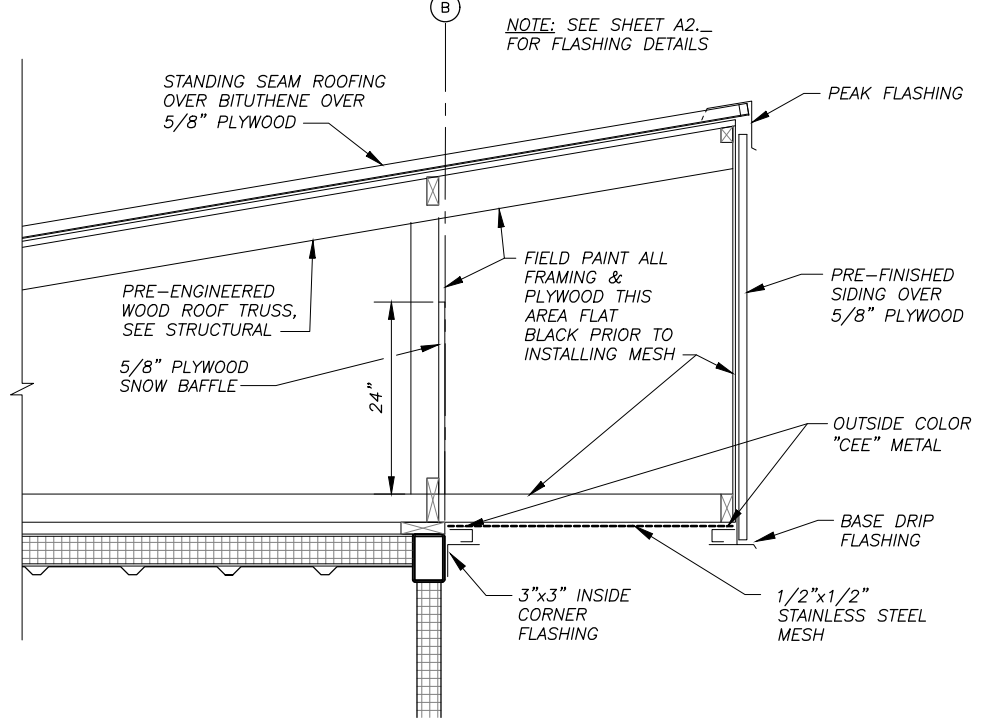
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LAYOUT: A3.1 - SECTIONS
XREF: 13-040_00_STRCUT-PP-BASE, 13040-00_B01-GSE

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 LAYOUT: A3.2 - SECTIONS
 XREF: 13-040_00_STRUC-PP-BASE, 13040-00_B01-GSE

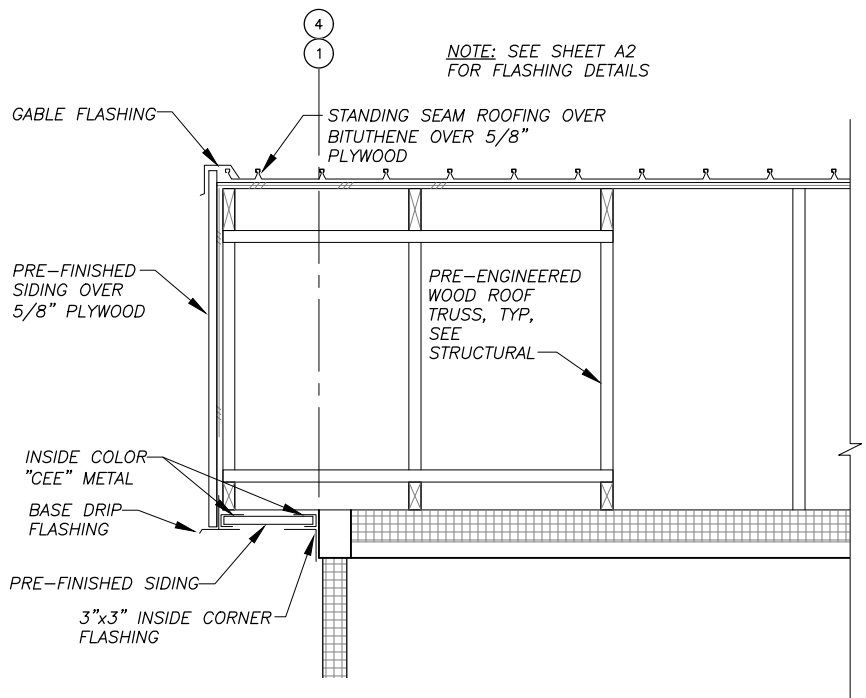
A B C D E F G H I J K ONE INCH



1 EAVE DETAIL
 A3.2 SCALE: 1" = 1'-0"



2 PEAK DETAIL
 A3.2 SCALE: 1" = 1'-0"



3 GABLE DETAIL
 A3.2 SCALE: 1" = 1'-0"

REVISIONS	DATE	DESCRIPTION



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SHEET TITLE POWER PLANT SECTIONS AND DETAILS	
SHEET A3.2	
DRAWN BY: <i>KK</i>	CHECKED BY: <i>DGT</i>
DATE: 06/10/16	SCALE: AS SHOWN
JOB NUMBER: 13-039	

**ROOF AND FOUNDATION
 NOT IN CONTRACT**

STRUCTURAL GENERAL NOTES – MODULE:

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
 MAXIMUM GENERATOR UNIT WEIGHT 10,000 POUNDS
- C. SNOW LOADS: (ASCE 7-10)
 GROUND SNOW LOAD, $P_g = 60$ 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
- D. WIND LOADS:
 BASIC WIND SPEED = 120 MPH, 3 SECOND GUST
 WIND IMPORTANCE FACTOR, $I_w = 1.15$, CATEGORY IV
 EXPOSURE CLASSIFICATION = EXPOSURE C
- E. SEISMIC LOADING:
 SEISMIC = $S_s = 0.422$ $S_1 = 0.353$
 SEISMIC IMPORTANCE FACTOR = 1.50, CATEGORY IV

 SITE CLASS "D"
 BASIC SEISMIC FORCE RESISTANCE SYSTEM = BUILDING – BEARING WALL WITH STEEL SHEAR PANELS
 FOUNDATION – SPREAD CONCRETE FOOTINGS
 SEISMIC RESPONSE COEFFICIENT, $R = 7.0$

2.0 FOUNDATIONS:

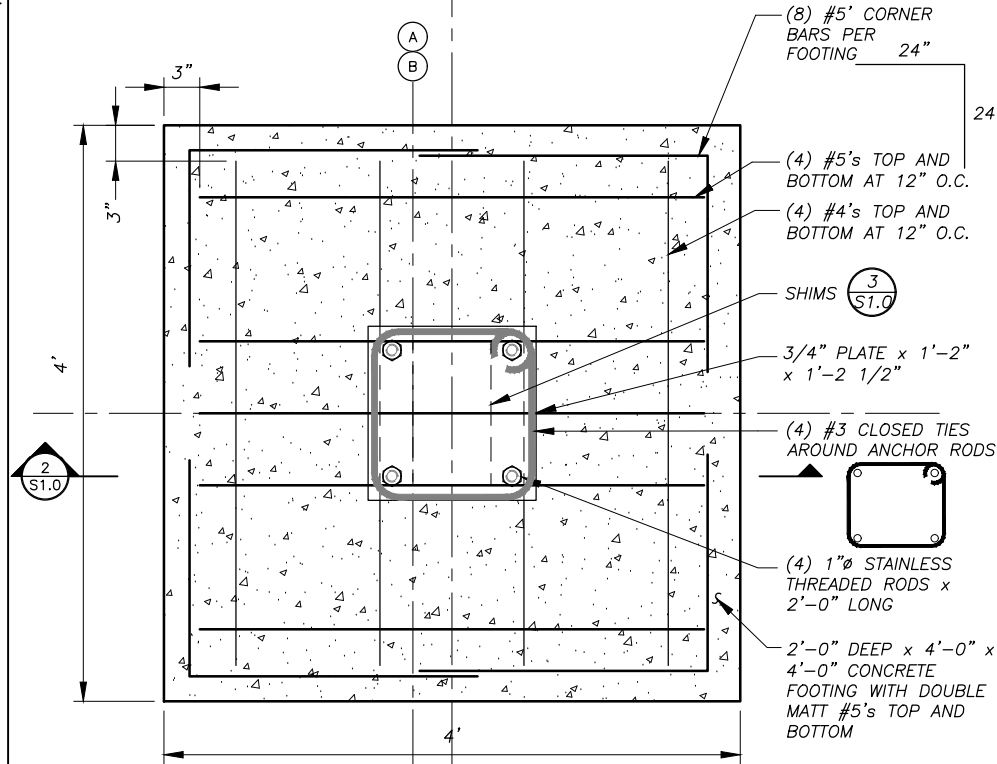
- A. SEE SITE/FOUNDATION PLANS.
- B. THE MODULE DESIGN SHOWS STANDARD CONSTRUCTION ON A SKID SYSTEM INSTALLED ON CONCRETE FOOTINGS.

3.0 STRUCTURAL STEEL:

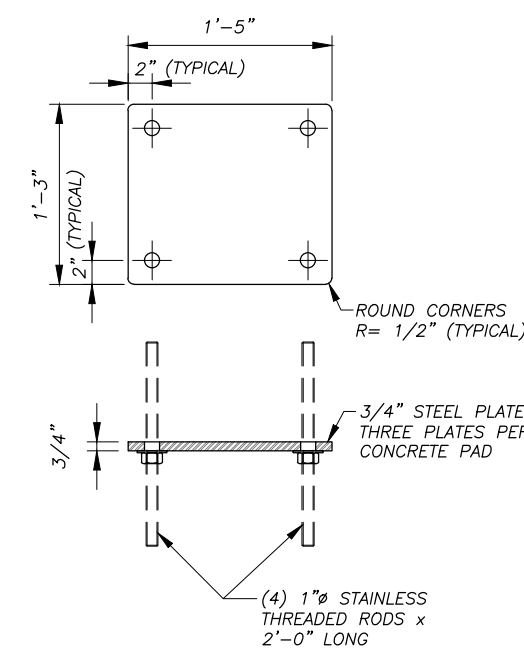
- A. THE DESIGN, FABRICATION, AND ERECTION OF ALL STRUCTURAL STEEL SHALL COMPLY WITH THE CODE OF STANDARD PRACTICE OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- B. ALL STEEL PLATE, SHAPES, AND ROLLED SECTIONS SHALL BE ASTM A36. ALL STEEL TUBING SHALL BE ASTM A500, GRADE B.
- C. ALL METAL TO METAL 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 MAXIMUM 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 E70XX ELECTRODES. MINIMUM FILLET WELD SHALL BE 3/16" EXCEPT FOR SEAL WELDS TO GAUGE METAL AS INDICATED.
- E. ALL EXPOSED STEEL SURFACES SHALL BE PREPARED AND PAINTED AS INDICATED IN THE ARCHITECTURAL DRAWINGS.

4.0 WOOD:

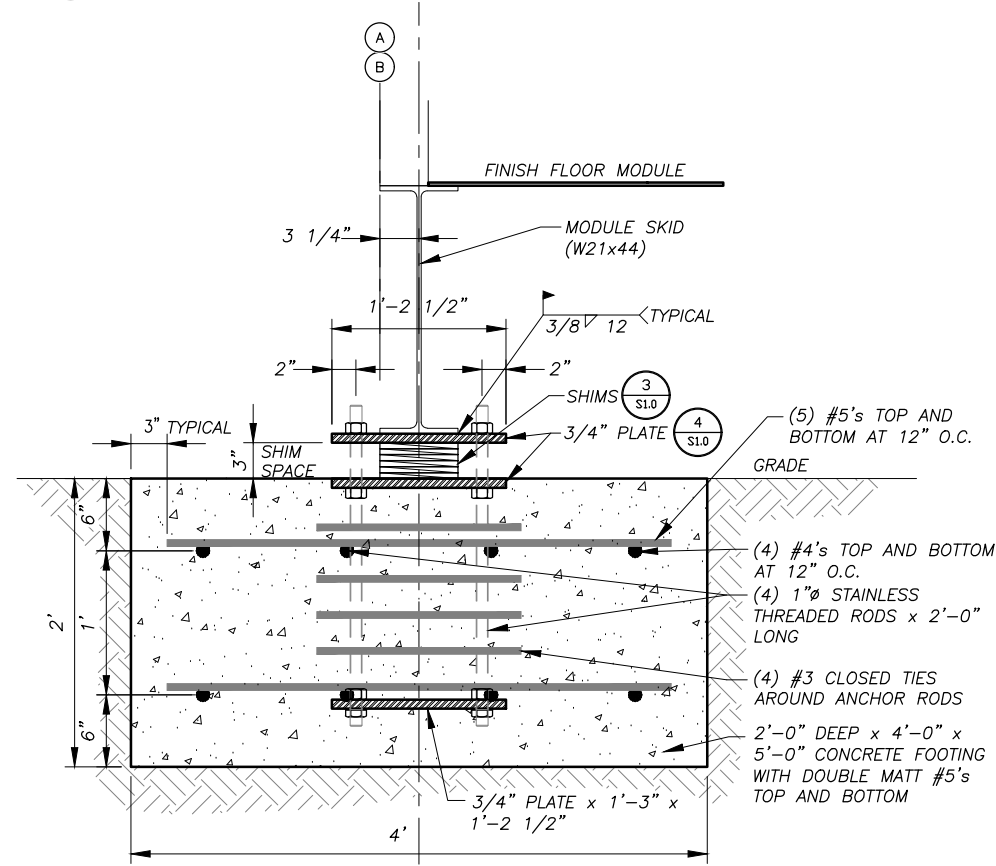
- A. PLYWOOD ROOF DECK AND WALL SHEATHING SHALL BE TREATED (AWW). 5/8" PLYWOOD SHALL HAVE A PANEL SPAN RATING OF 32/16 – MINIMUM NAILING FOR PANELS, UNLESS OTHERWISE NOTED, SHALL EQUAL 10d NAILS AT 4" CENTERS AROUND PLYWOOD PANEL EDGES AND 10d'S @ 12" CENTERS ALONG INTERMEDIATE FRAMING. BLOCK ALL DIAPHRAGM PANEL EDGES WITH 2X4 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. MAXIMUM 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 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, WIND & SEISMIC LATERAL & UPLIFT 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.



1 PLAN - FOOTING
SCALE: 1 1/2' = 1'-0"

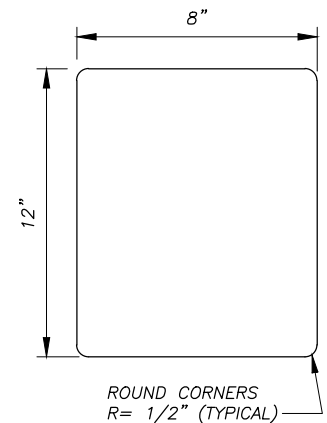


4 TYPICAL STEEL PLATE
SCALE: N.T.S.



2 SECTION - FOOTING
SCALE: 1 1/2' = 1'-0"

FOUNDATION NOT IN CONTRACT

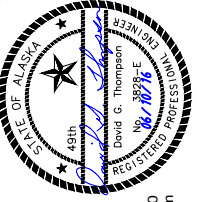


SHIM FABRICATION TABLE		
THICKNESS	QUANTITY	MATERIAL
1/4"	12	ALUMINUM
1/2"	8	ALUMINUM
1"	4	ALUMINUM

3 TYPICAL SHIM
SCALE: N.T.S.

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LAYOUT: S1.0 - GENERAL NOTES
XREF: 13040-00_B01-BK

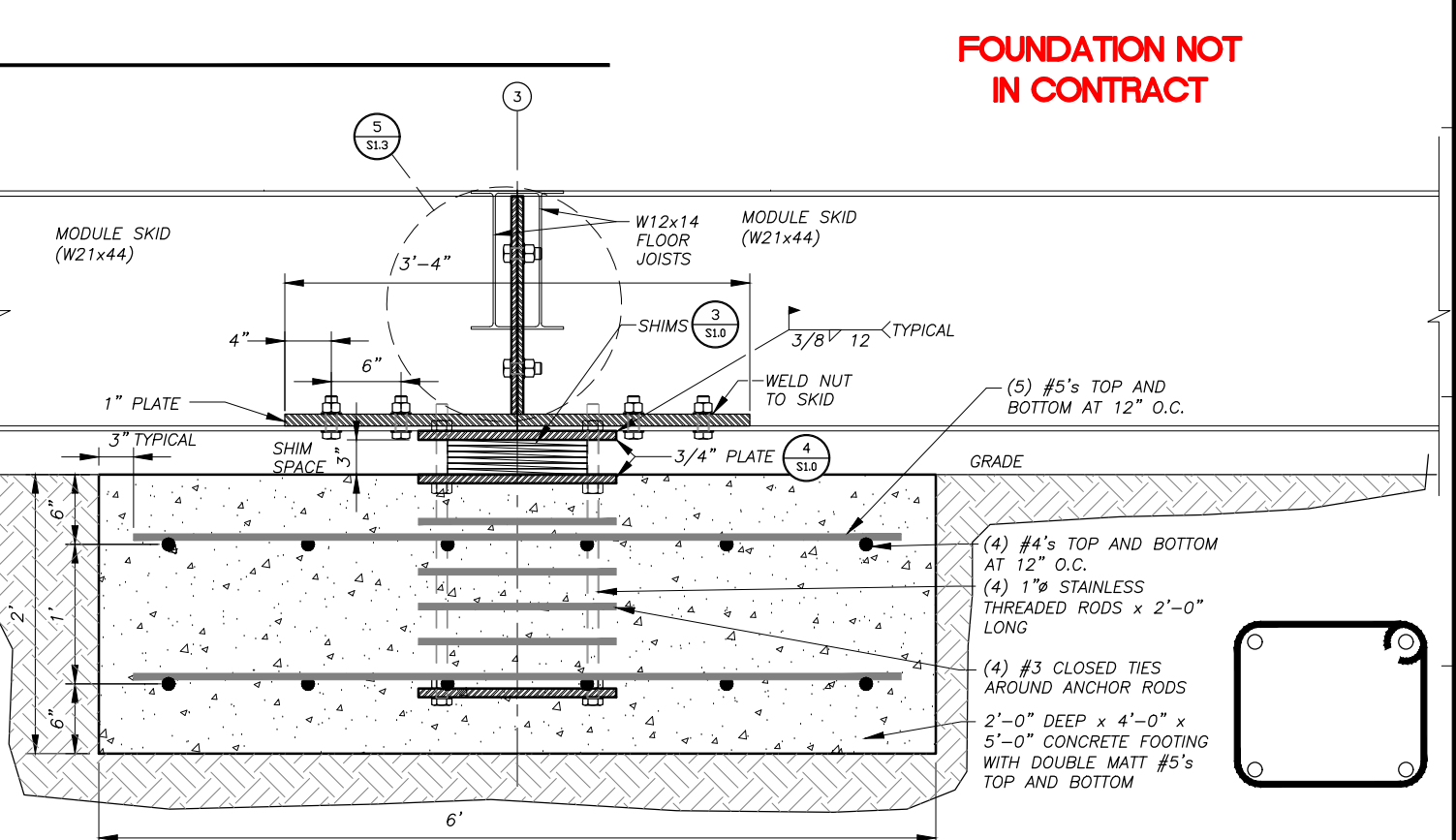
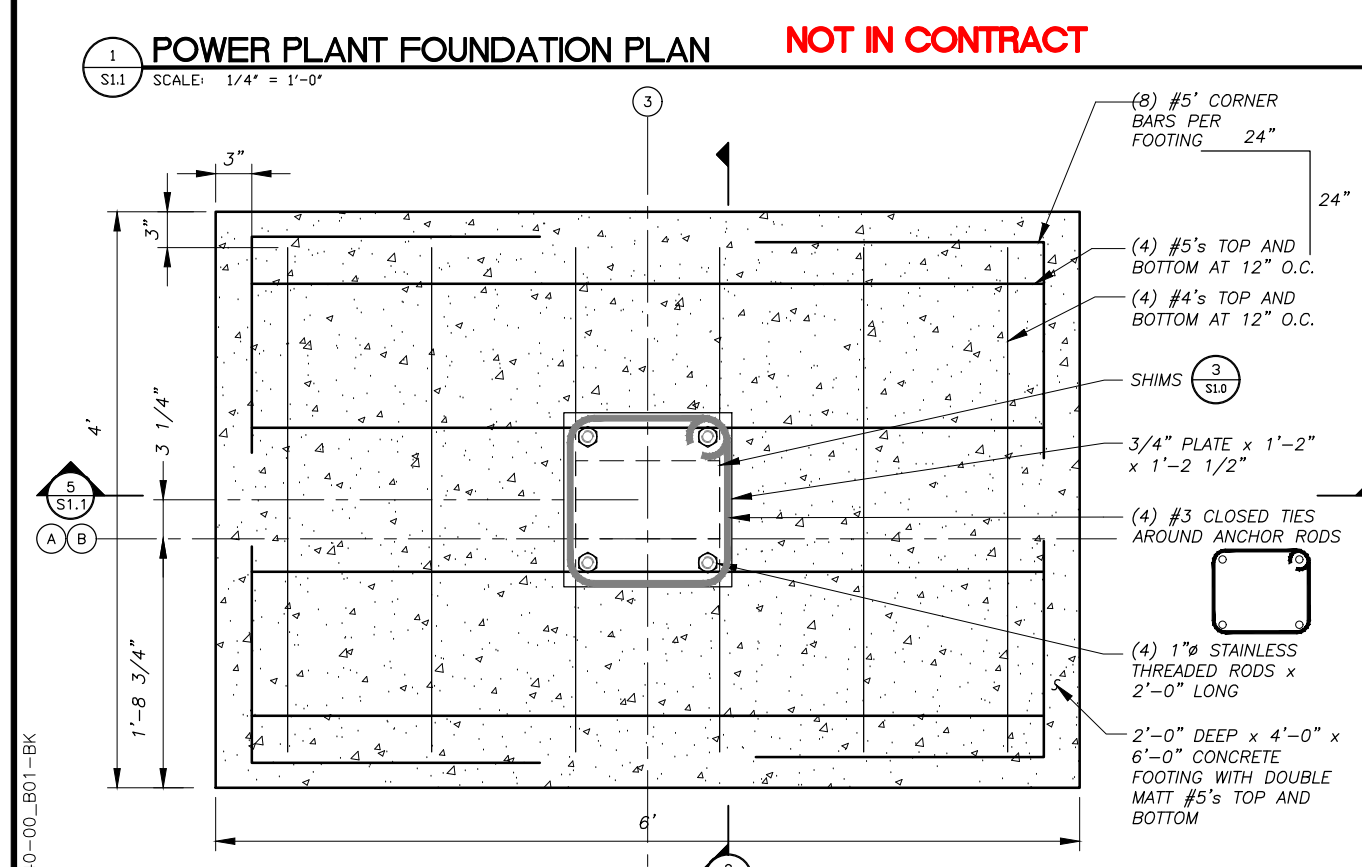
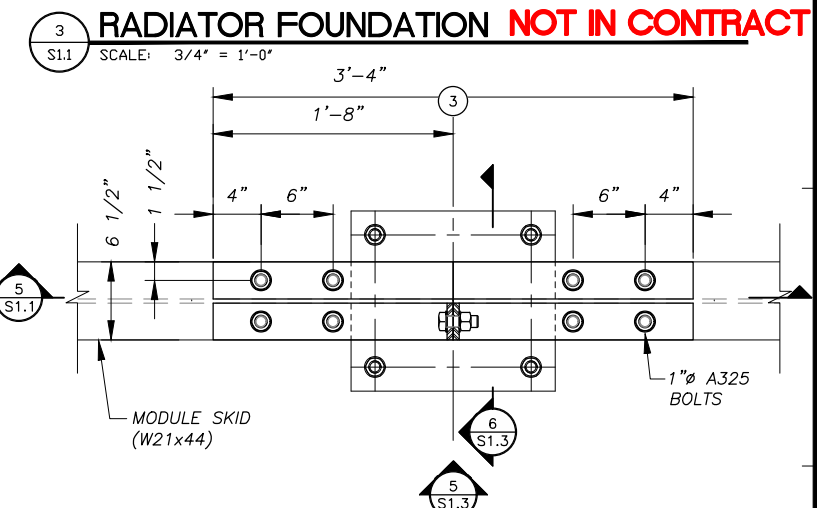
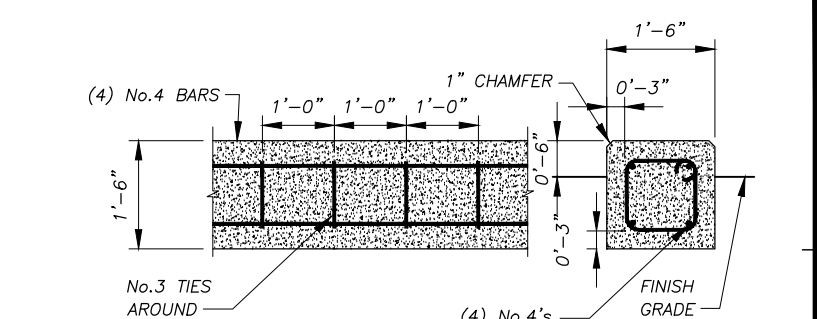
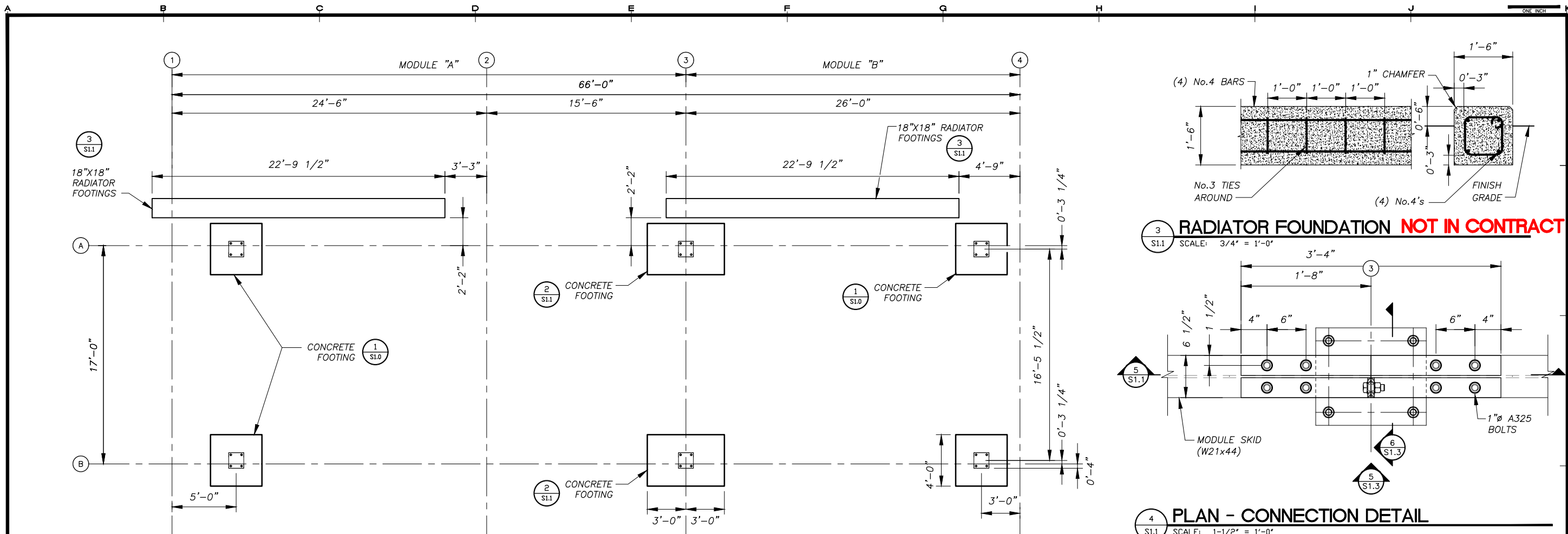
REVISIONS	DATE	DESCRIPTION
1	5/04/16	95% SUBMITTAL FOR AGENCY REVIEW



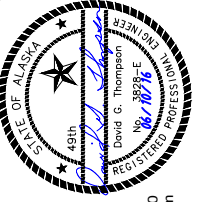
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 POWER PLANT GENERAL NOTES AND FOUNDATION DETAILS
 SHEET S1.0
 DRAWN BY: KK CHECKED BY: DGT
 DATE: 06/10/16 AS SHOWN
 JOB NUMBER: 13-039

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 LAYOUT: S1.1 - FOUNDATION PLAN
 REF: 13040-00_B01-BK



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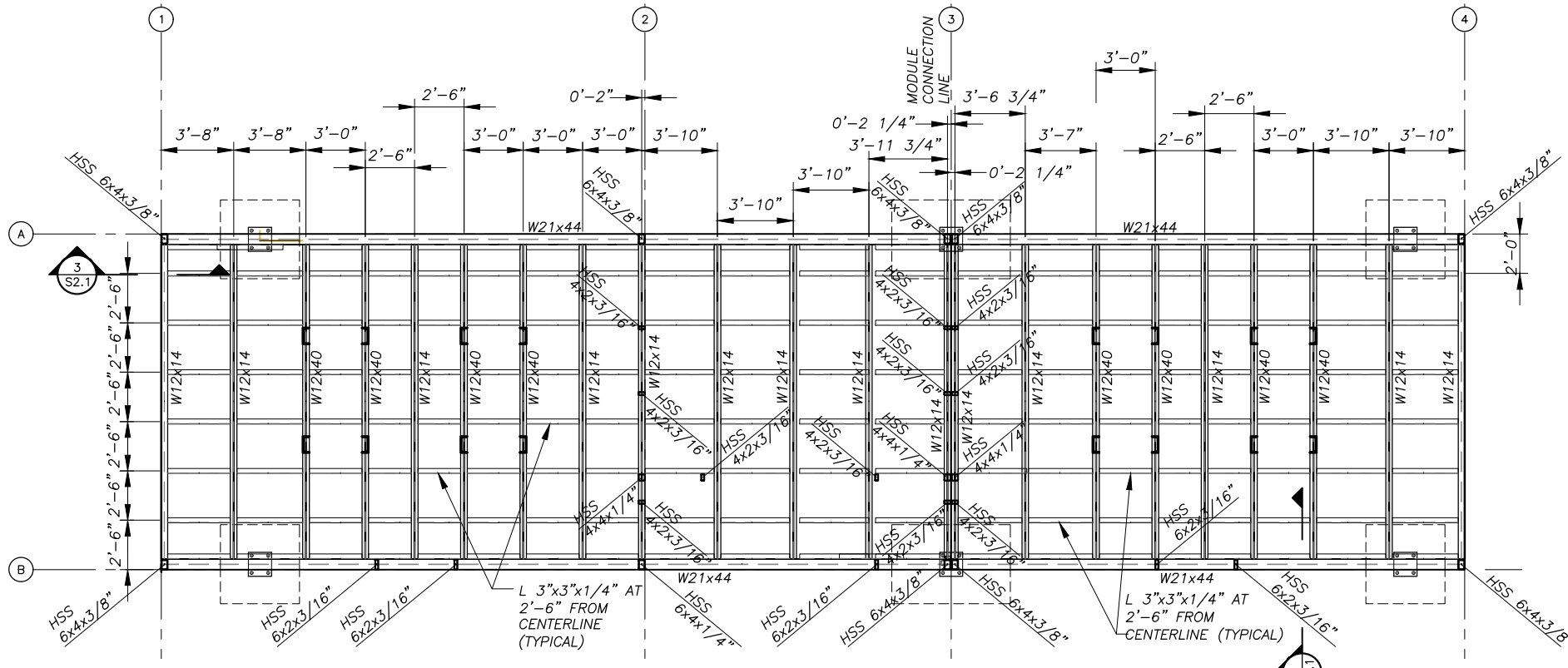


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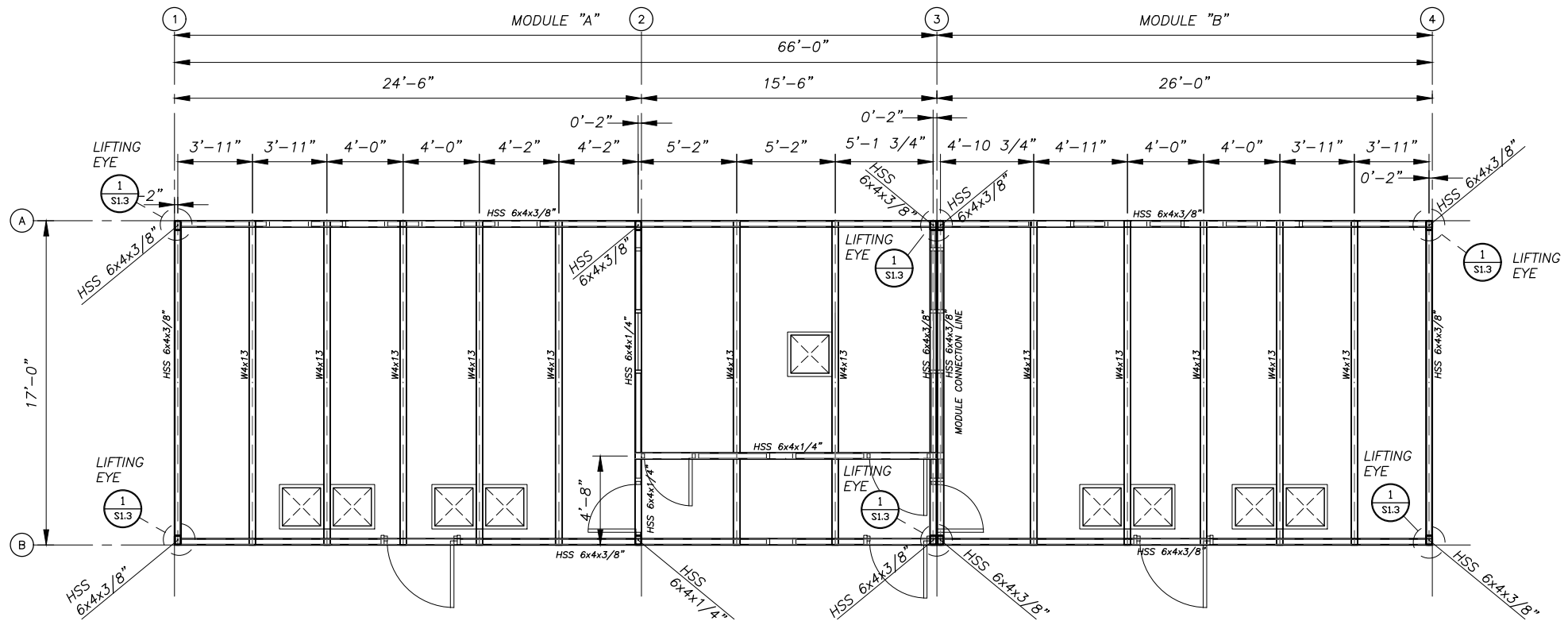
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SHEET TITLE: POWER PLANT FOUNDATION AND DETAILS
 SHEET: S1.1
 DRAWN BY: KK
 CHECKED BY: DGT
 DATE: 06/10/16
 SCALE: AS SHOWN
 JOB NUMBER: 13-039

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 LAYOUT: S1.2 - CEILING PLANS DETAILS
 REF: 13040-00_B01-BK

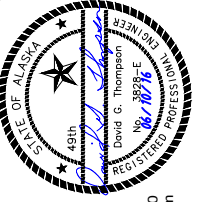


1 POWER PLANT FLOOR FRAMING PLAN
 SCALE: 1/4" = 1'-0"



2 POWER PLANT CEILING PLAN
 SCALE: 1/4" = 1'-0"

REVISIONS	DATE	DESCRIPTION
1	5/04/16	95% SUBMITTAL FOR AGENCY REVIEW

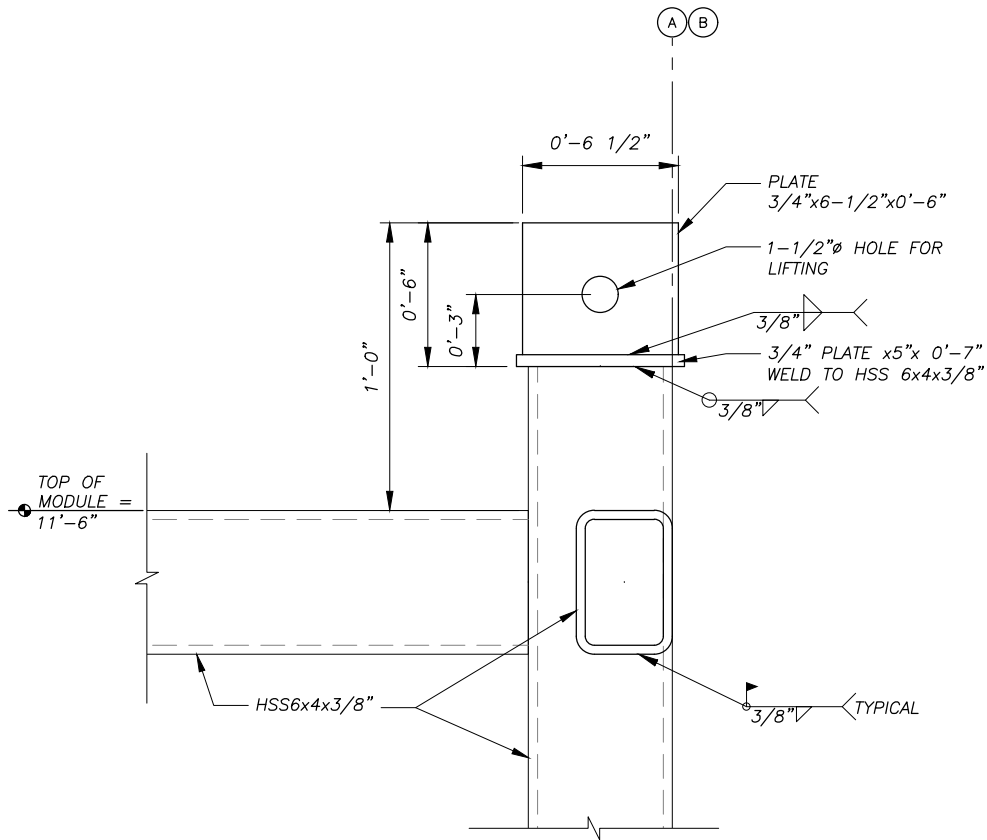


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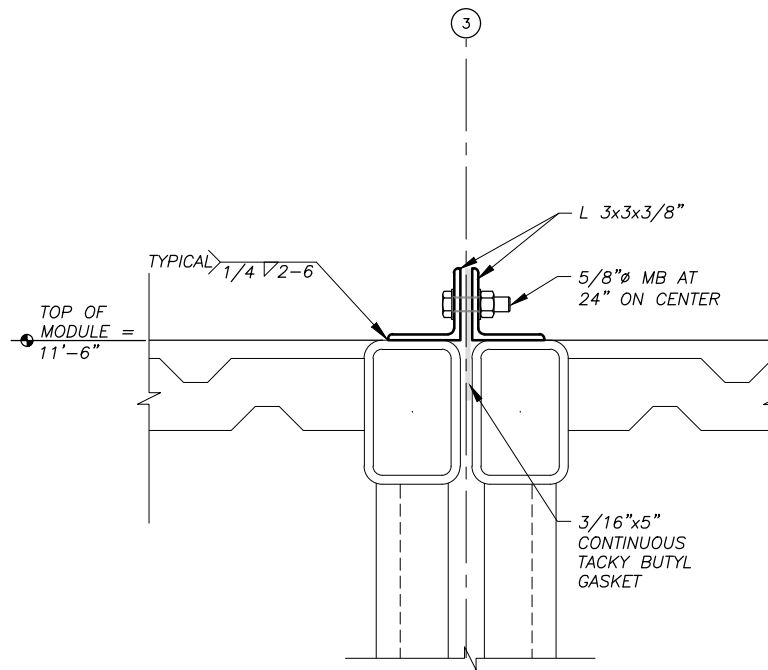
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SHEET TITLE: POWER PLANT FRAMING AND CEILING PLAN
 SHEET: S1.2
 DRAWN BY: KK CHECKED BY: DGT
 DATE: 06/10/16 SCALE: AS SHOWN
 JOB NUMBER: 13-039

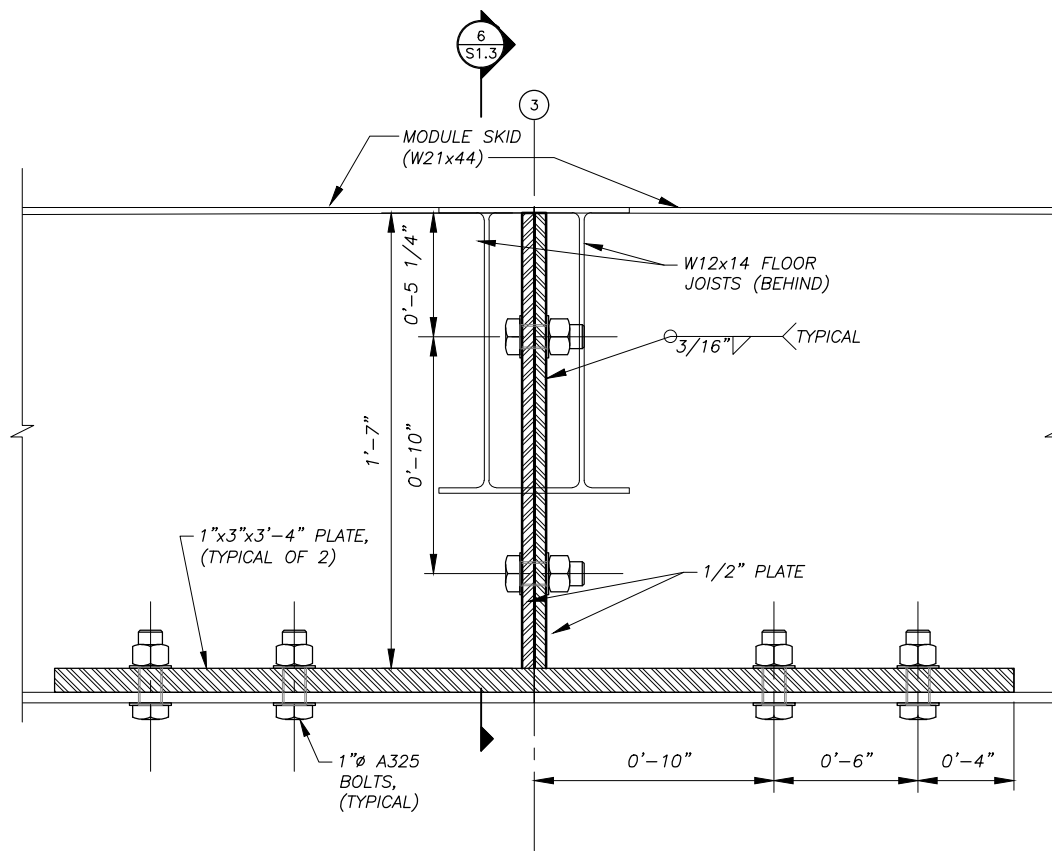
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 LAYOUT: S1.3 DETAILS
 XREF: 13040-00_B01-BK



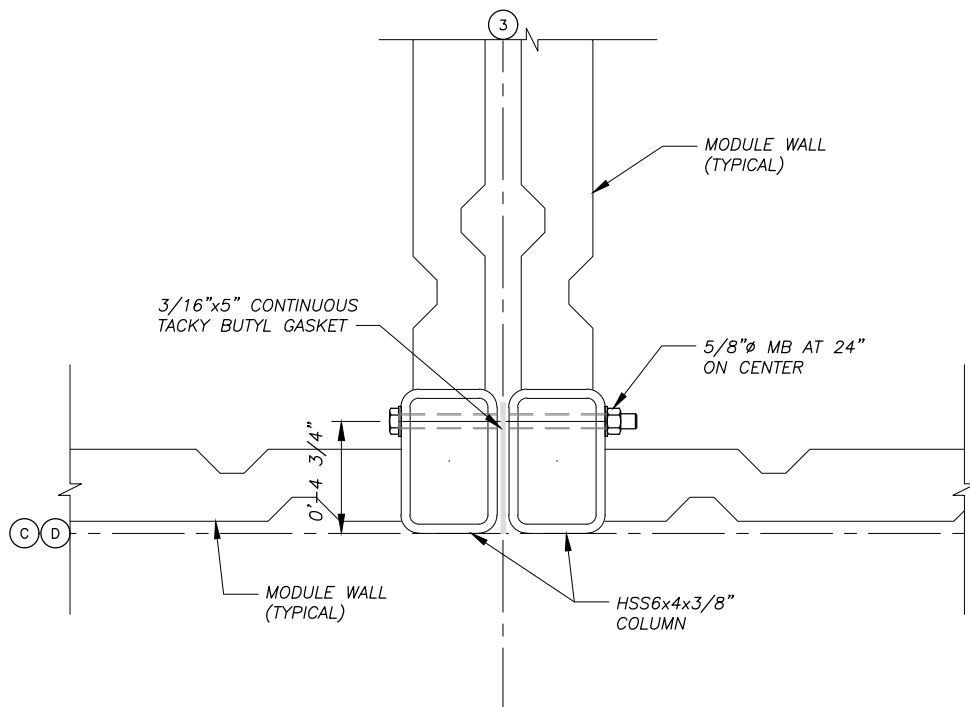
1 LIFTING EYE AND COLUMN CONNECTION
 S1.3 SCALE: 3' = 1'-0"



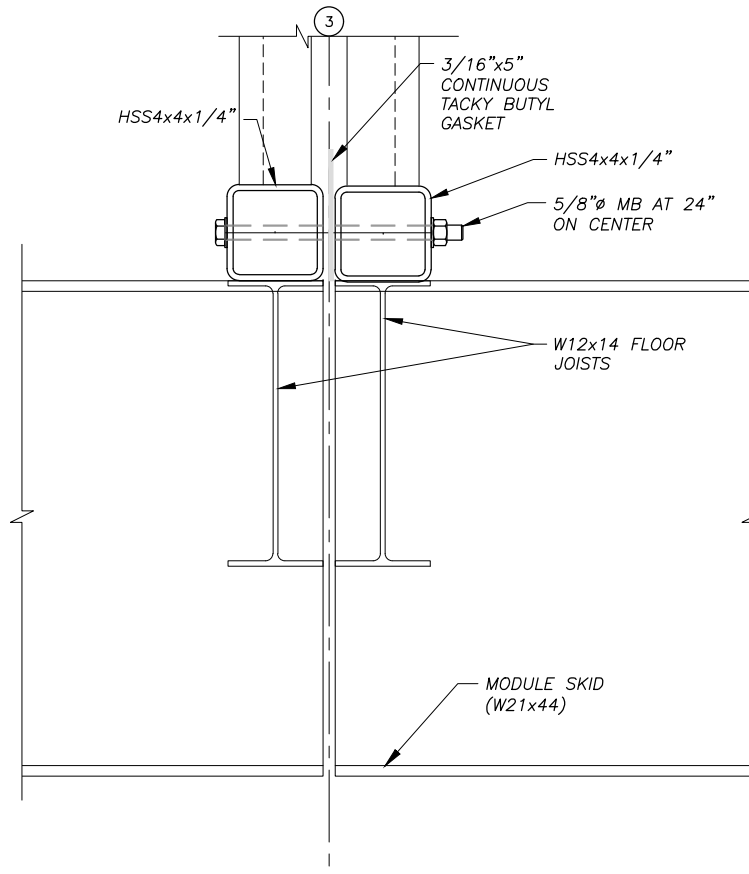
3 MODULE CONNECTION AT CEILING BEAMS
 S1.3 SCALE: 3' = 1'-0"



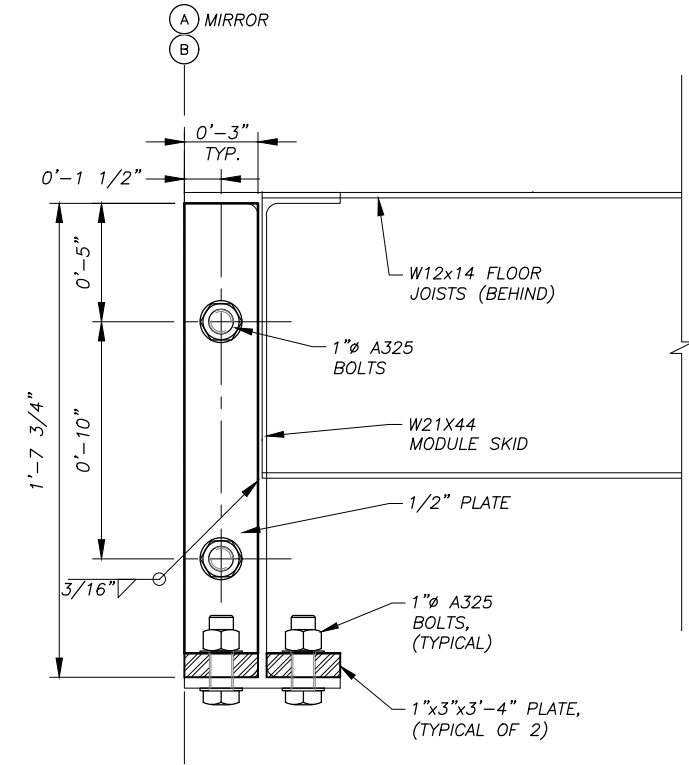
5 MODULE CONNECTION AT SKIDS
 S1.3 SCALE: 3' = 1'-0"



2 MODULE CONNECTION AT COLUMNS
 S1.3 SCALE: 3' = 1'-0"



4 MODULE CONNECTION AT FLOOR
 S1.3 SCALE: 3' = 1'-0"



6 SECTION
 S1.3 SCALE: 3' = 1'-0"

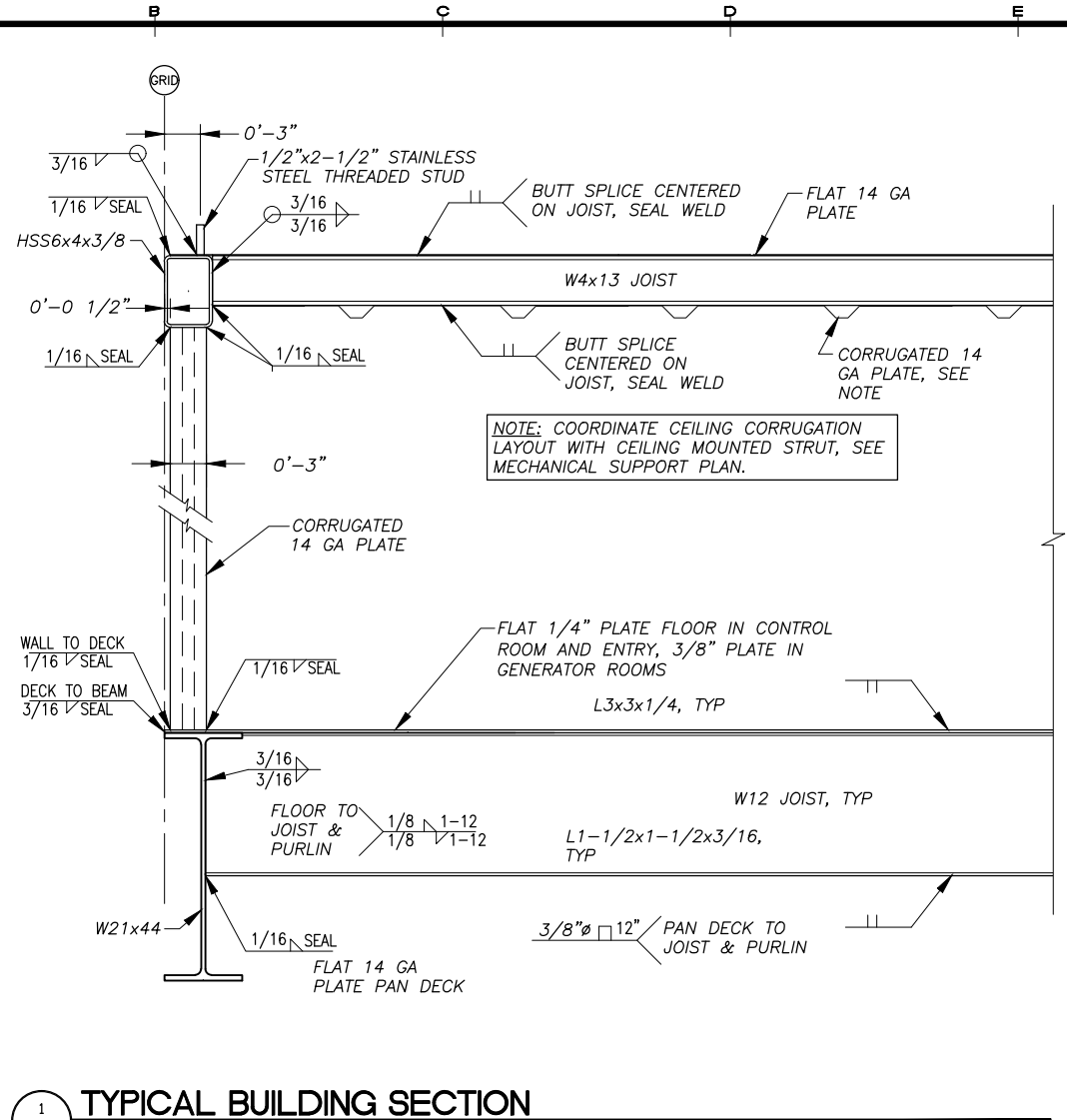
REVISIONS	DATE	DESCRIPTION
6	5/04/16	SUBMITTAL FOR AGENCY REVIEW



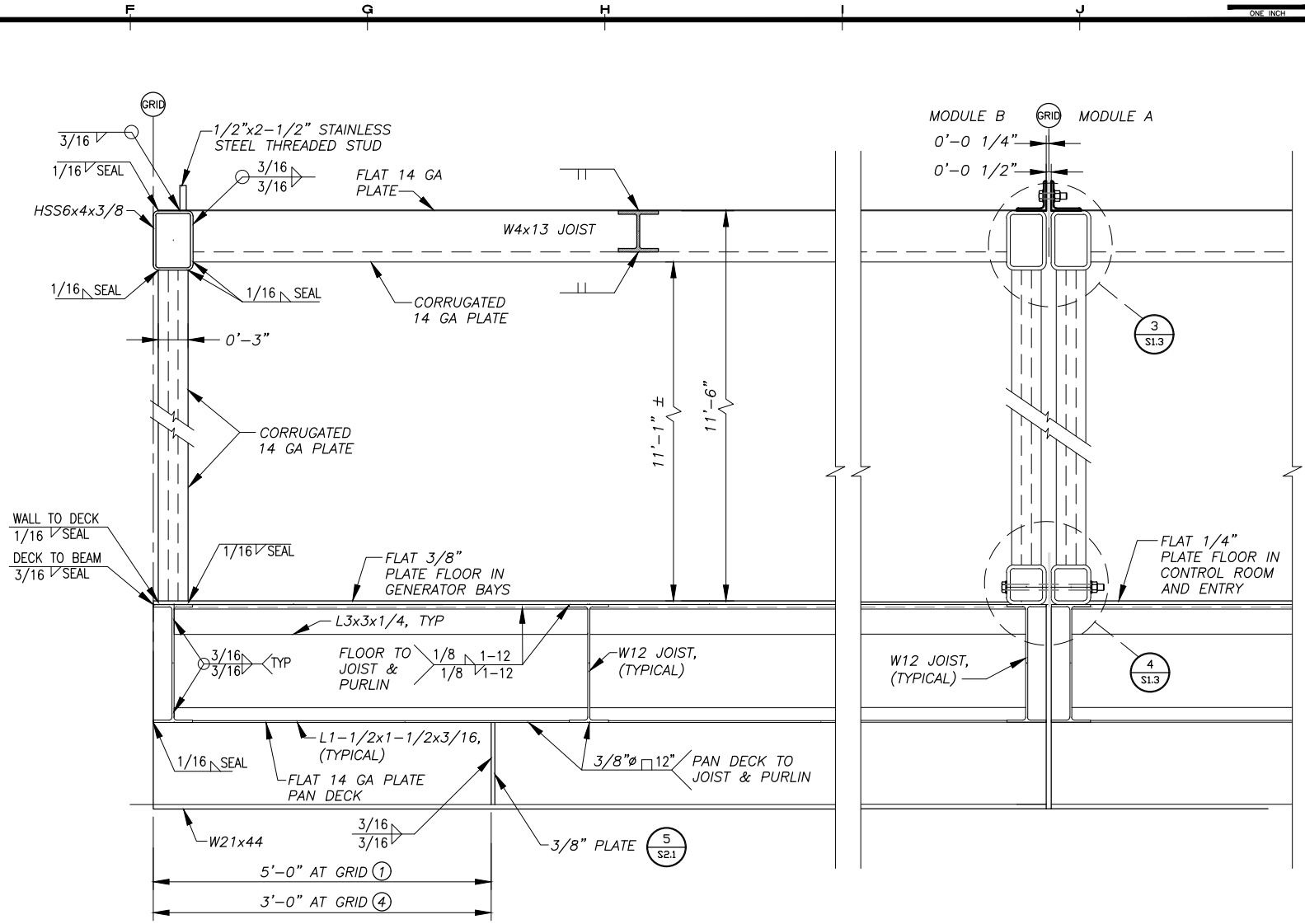
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 POWER PLANT STRUCTURAL DETAIL
 SHEET S1.3
 DRAWN BY: KK CHECKED BY: DGT
 DATE: 06/10/16 AS SHOWN
 JOB NUMBER: 13-039

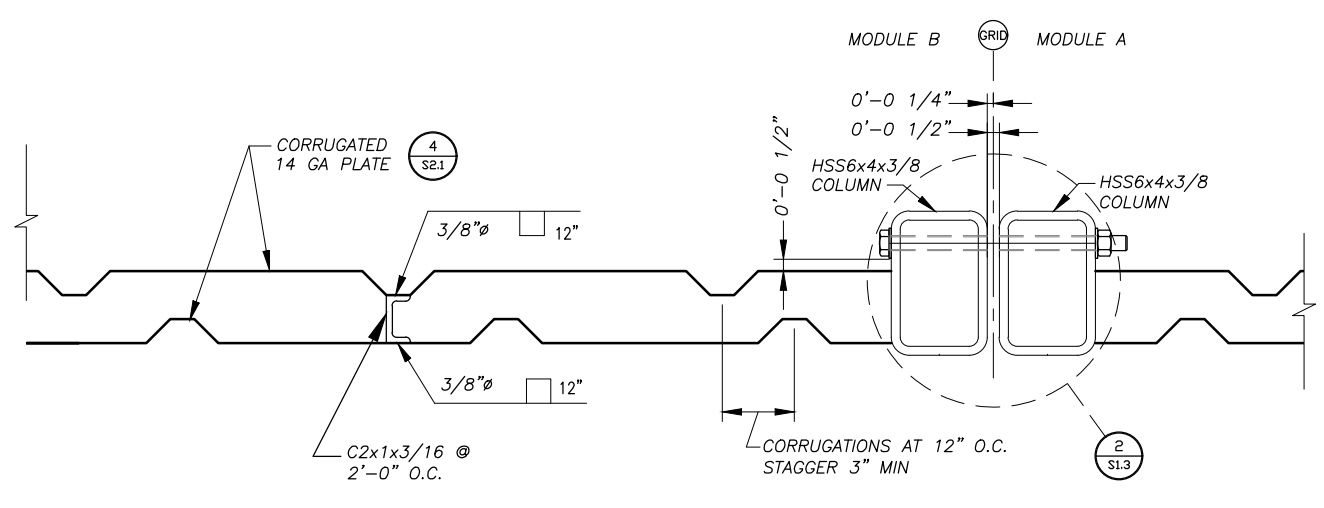
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 LAYOUT: S2.1 - SECTIONS
 XREF: 13040-00_B01-BK



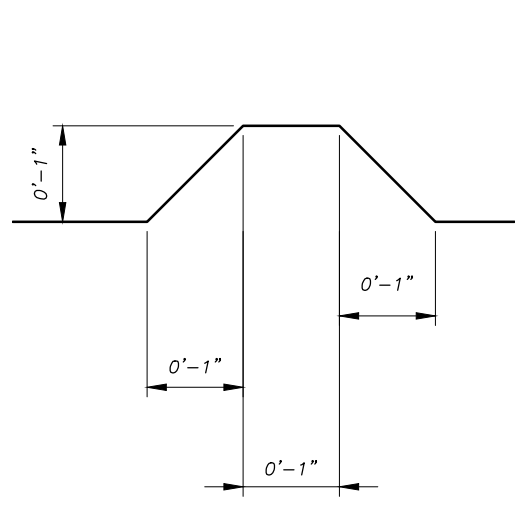
1 TYPICAL BUILDING SECTION
 S2.1 SCALE: 1 1/2" = 1'-0"



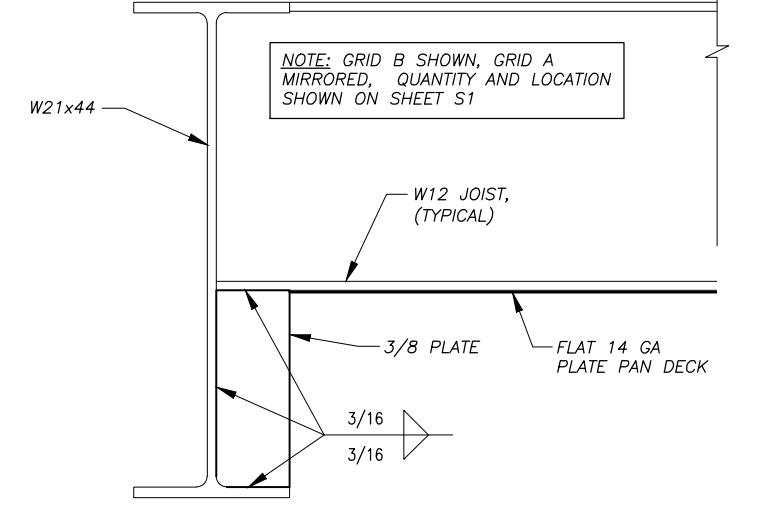
3 TYPICAL BUILDING SECTION
 S2.1 SCALE: 1 1/2" = 1'-0"



2 TYPICAL EXTERIOR WALL - PLAN VIEW
 S2.1 SCALE: 3" = 1'-0"

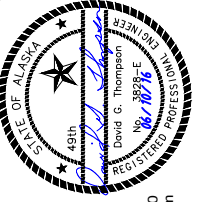


4 TYPICAL CORRUGATION
 S2.1 SCALE: N.T.S.



5 ANCHOR HOLE AND WEB STIFFENER DETAIL
 S2.1 SCALE: 3" = 1'-0"

REVISIONS	MARK	DATE	DESCRIPTION



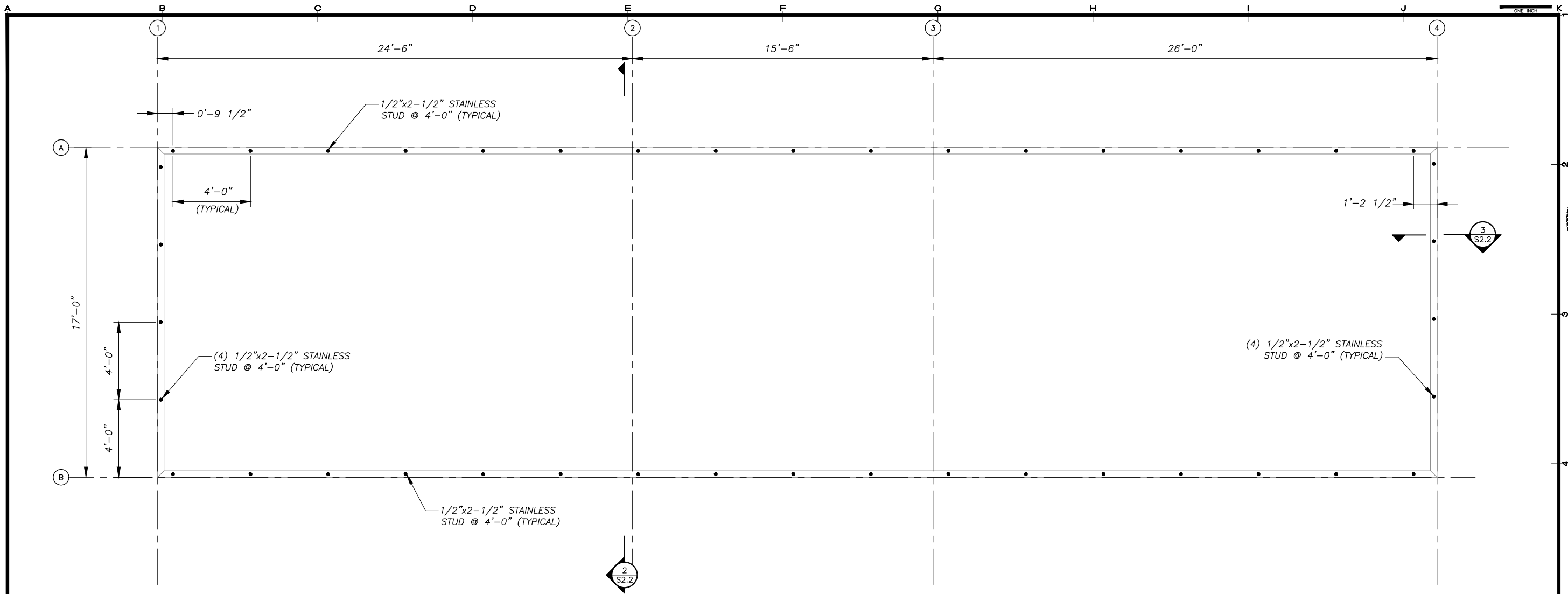
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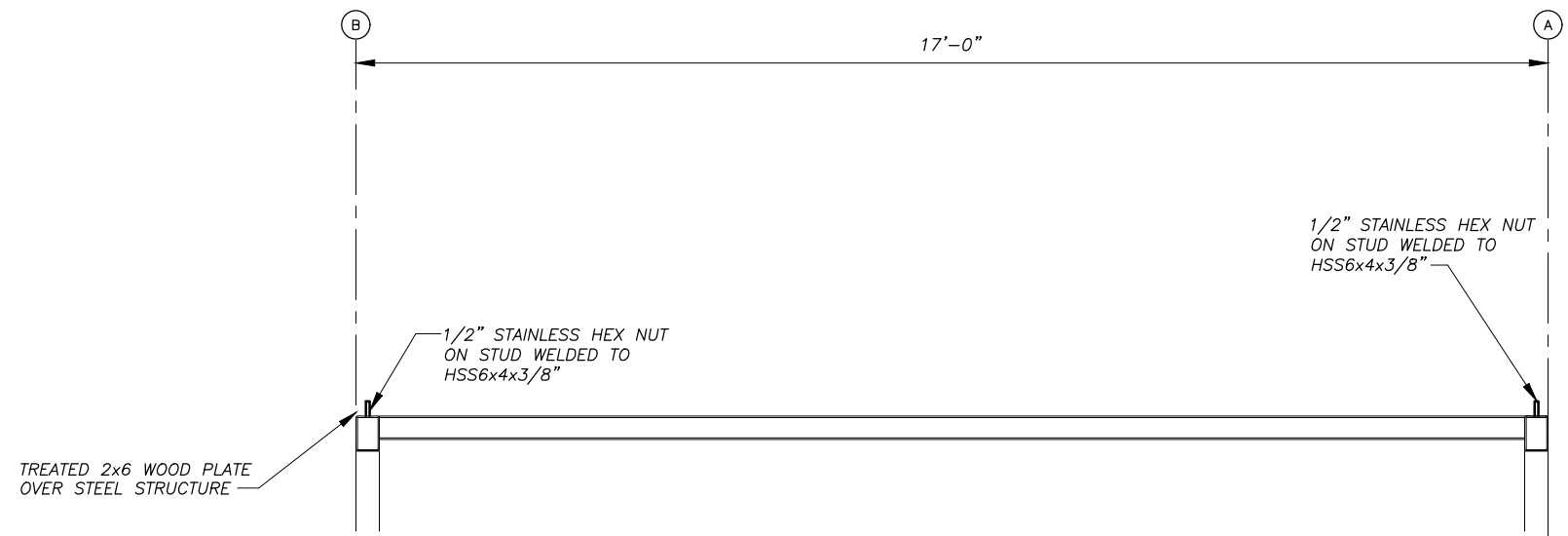
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SHEET TITLE POWER PLANT SECTIONS AND DETAILS	
SHEET S2.1	
DRAWN BY KK	CHECKED BY DGT
DATE 06/10/16	SCALE AS SHOWN
JOB NUMBER 13-039	

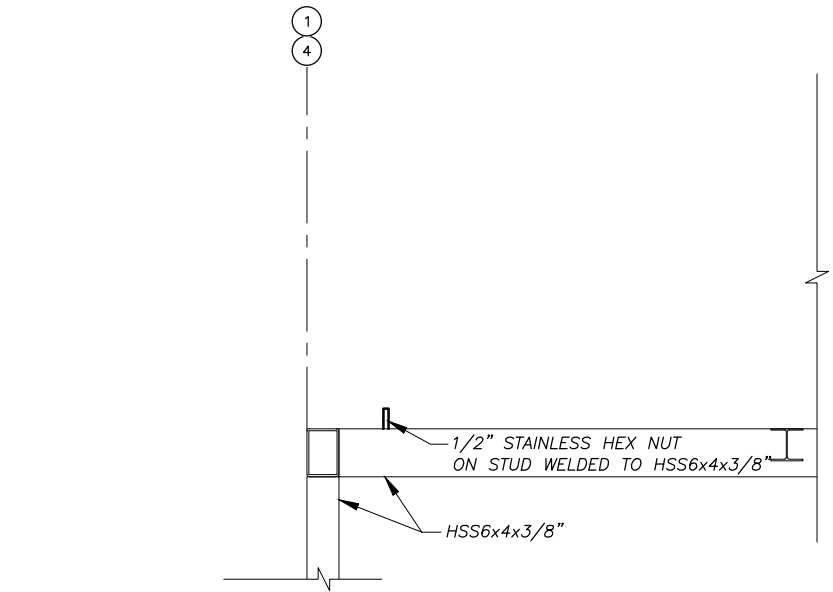
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 LAYOUT: S2.2 - ROOF FRAMING
 XREF: 13040-00_B01-BK



1 ROOF BOLT PLAN
 SCALE: 3/8" = 1'-0"

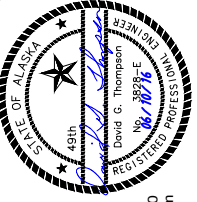


2 ROOF TRUSS INSTALLATION
 SCALE: 3/4" = 1'-0"



3 SECTION
 SCALE: 1" = 1'-0"

REVISIONS	MARK	DATE	DESCRIPTION



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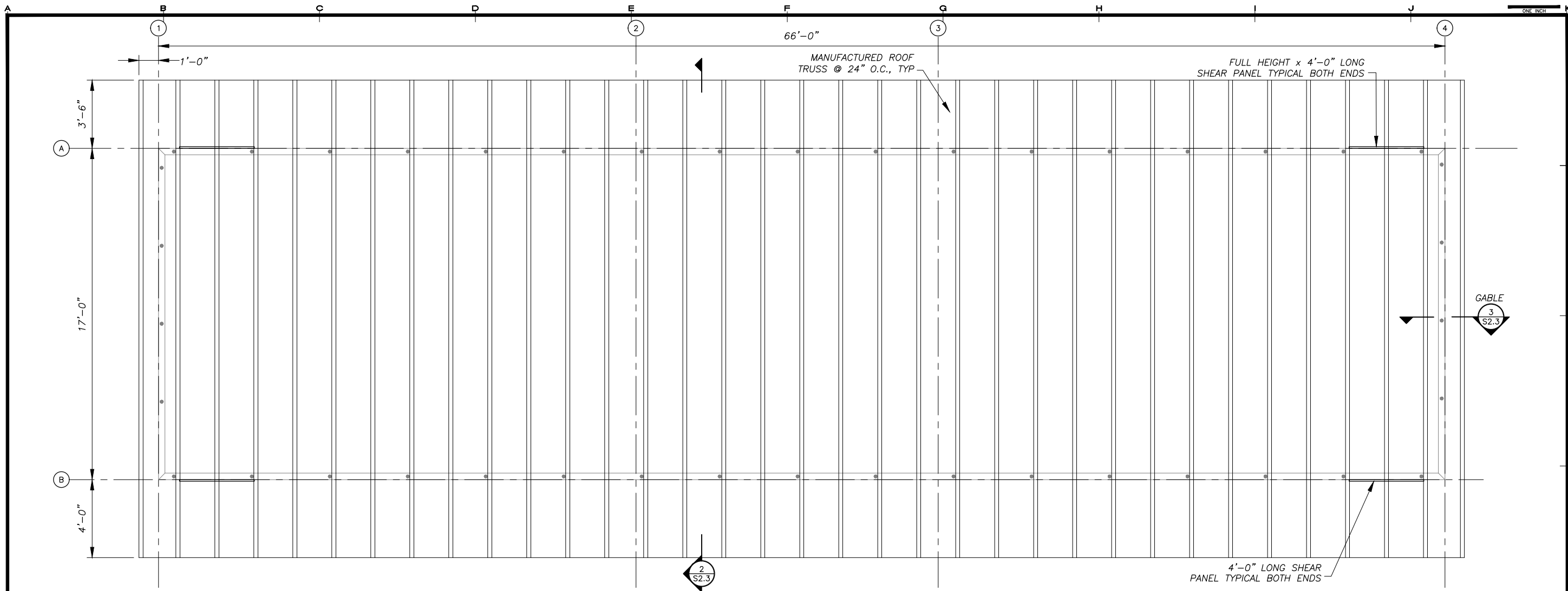
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SHEET TITLE
POWER PLANT ROOF BOLT PLAN AND DETAILS

SHEET
S2.2

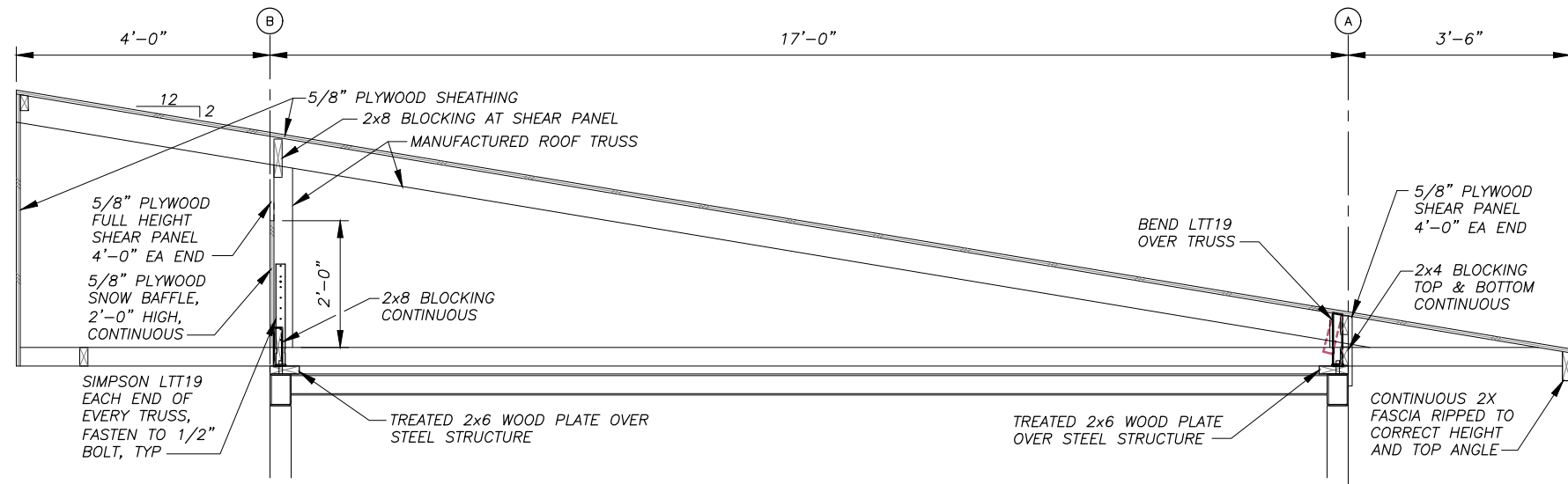
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JOB NUMBER: 13-039	

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 LAYOUT: S2.3 - ROOF FRAMING
 XREF: 13040-00_B01-BK

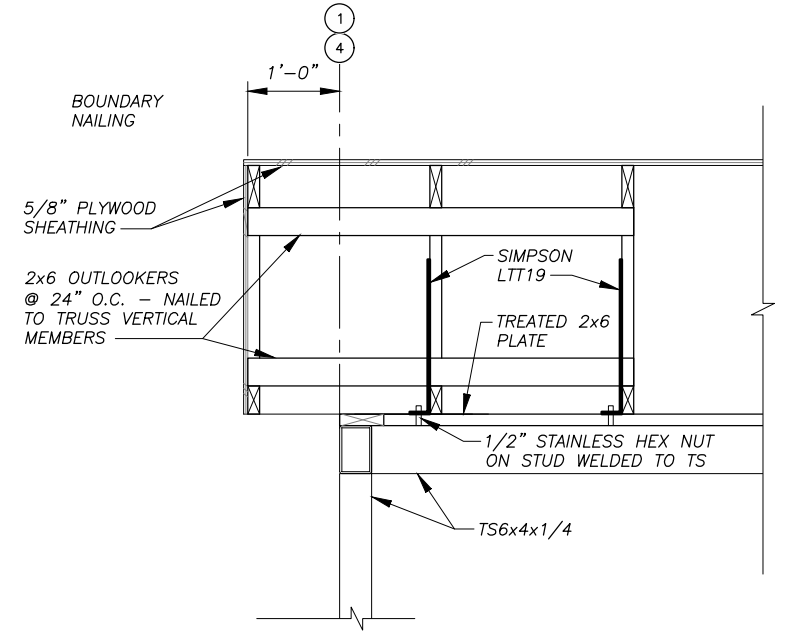


1 ROOF FRAMING PLAN
 S2.3 SCALE: 3/8" = 1'-0"

ROOF NOT IN CONTRACT

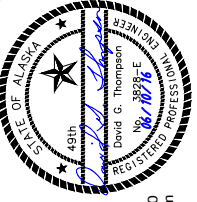


2 ROOF TRUSS INSTALLATION
 S2.3 SCALE: 3/4" = 1'-0"



3 TYPICAL GABLE
 S2.3 SCALE: 1" = 1'-0"

REVISIONS	MARK	DATE	DESCRIPTION



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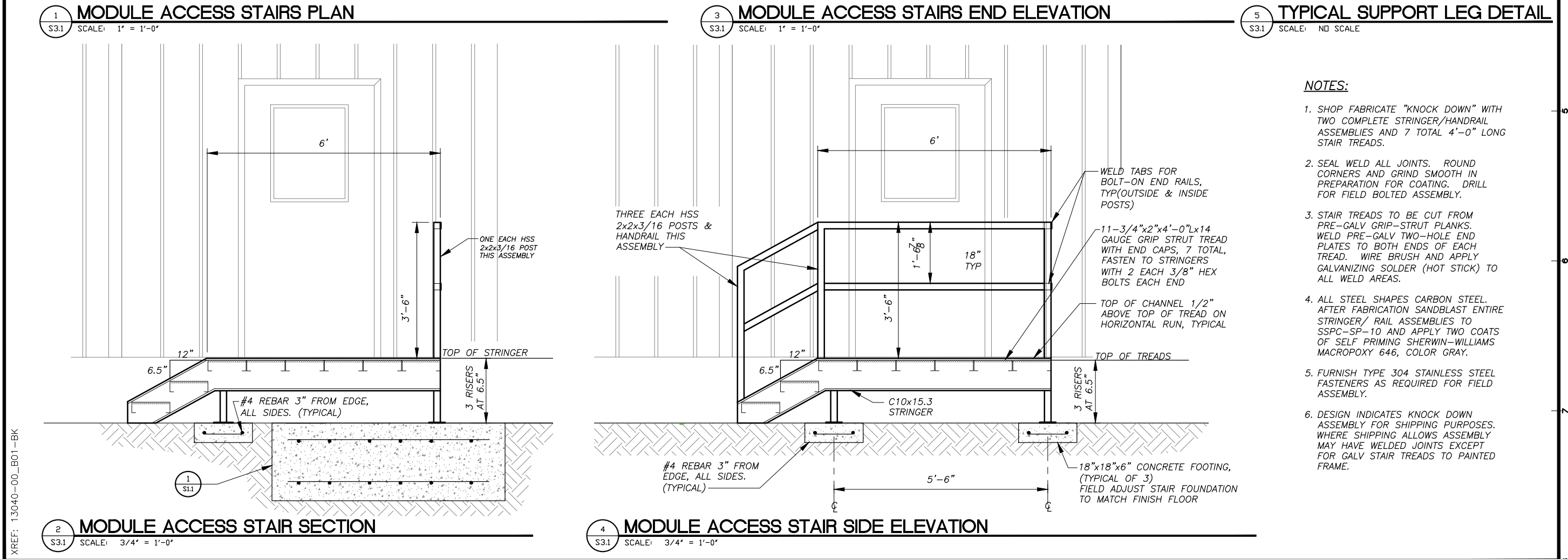
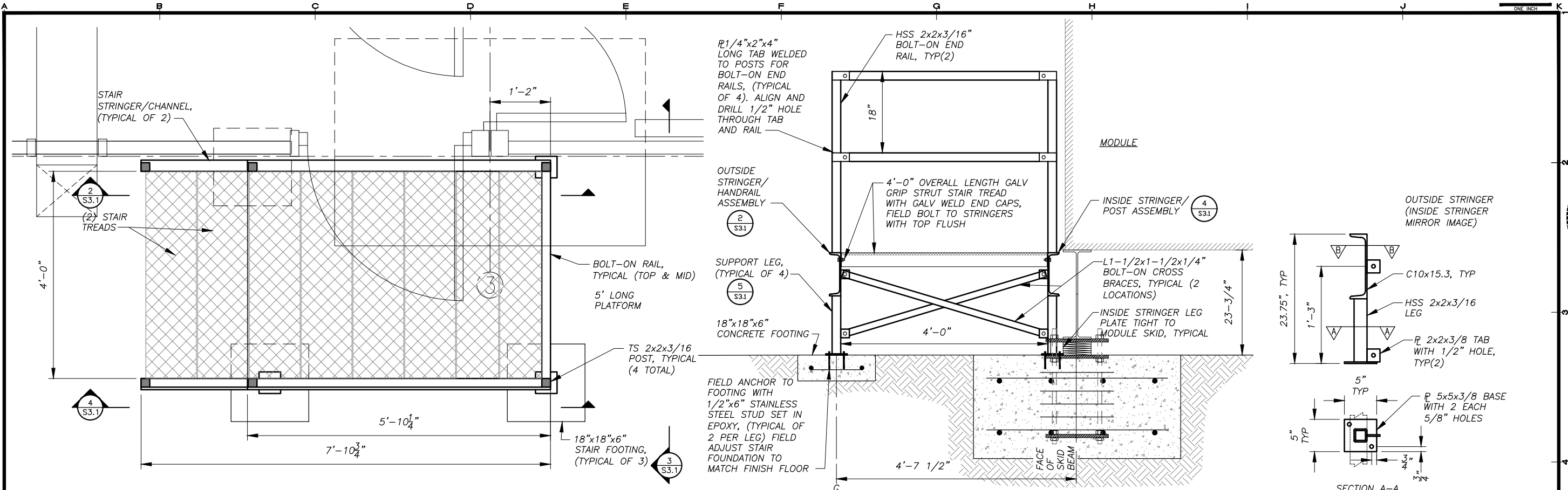
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SHEET TITLE
POWER PLANT ROOF FRAMING PLAN AND DETAILS

SHEET
S2.3

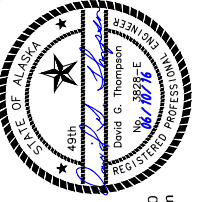
DRAWN BY: KK	CHECKED BY: DGT
DATE: 06/10/16	SCALE: AS SHOWN
JOB NUMBER: 13-039	

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 LAYOUT: S3.01 STAIRS
 XREF: 13040-00_B01-BK



- NOTES:**
- SHOP FABRICATE "KNOCK DOWN" WITH TWO COMPLETE STRINGER/HANDRAIL ASSEMBLIES AND 7 TOTAL 4'-0" LONG STAIR TREADS.
 - SEAL WELD ALL JOINTS. ROUND CORNERS AND GRIND SMOOTH IN PREPARATION FOR COATING. DRILL FOR FIELD BOLTED ASSEMBLY.
 - STAIR TREADS TO BE CUT FROM PRE-GALV GRIP-STRUT PLANKS. WELD PRE-GALV TWO-HOLE END PLATES TO BOTH ENDS OF EACH TREAD. WIRE BRUSH AND APPLY GALVANIZING SOLDER (HOT STICK) TO ALL WELD AREAS.
 - ALL STEEL SHAPES CARBON STEEL. AFTER FABRICATION SANDBLAST ENTIRE STRINGER/ RAIL ASSEMBLIES TO SSPC-SP-10 AND APPLY TWO COATS OF SELF PRIMING SHERWIN-WILLIAMS MACROPOXY 646, COLOR GRAY.
 - FURNISH TYPE 304 STAINLESS STEEL FASTENERS AS REQUIRED FOR FIELD ASSEMBLY.
 - DESIGN INDICATES KNOCK DOWN ASSEMBLY FOR SHIPPING PURPOSES. WHERE SHIPPING ALLOWS ASSEMBLY MAY HAVE WELDED JOINTS EXCEPT FOR GALV STAIR TREADS TO PAINTED FRAME.

REVISIONS	DATE	DESCRIPTION
1	5/04/16	95% SUBMITTAL FOR AGENCY REVIEW



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KAKE RURAL POWER SYSTEM UPGRADES

ALASKA ENERGY AUTHORITY
 ENERGY AUTHORITY
 KAKE, ALASKA

SHEET TITLE: POWER PLANT ACCESS STAIRS
 SHEET: S3.1
 DRAWN BY: KK
 CHECKED BY: DGT
 DATE: 06/10/16
 SCALE: AS SHOWN
 JOB NUMBER: 13-039

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	Kake Fabricated Steel Module	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)