ARCHITECTURAL GENERAL NOTES:

1. **Modular Power Plant General**: The modular power plant includes the electrical and mechanical system designed for the specific location and application. The modules are prefabricated in accordance with local codes.

2. **Module Installation**: The modules are installed on top of steel frames to provide structural support and prevent settling away from the foundation.

3. **Fire Protection**: A fire alarm system is installed to detect and respond to fire hazards and prevent property damage and loss of life.

4. **Construction**: The construction process includes the installation of electrical, mechanical, and structural components to ensure the safety and functionality of the power plant.

5. **Quality Control**: Quality control measures are implemented throughout the construction process to ensure compliance with all relevant codes and standards.

6. **Operational Safety**: The power plant is designed with operational safety in mind, complying with current standard practices and codes.

7. **Revision History**: The sheet is for revision and is subject to changes as the project progresses.

8. **Code Compliance**: All modules and components are designed and fabricated in accordance with the relevant codes and standards, including the National Electric Code (NEC) and International Building Code (IBC).

9. **Material Specifications**: The modules are constructed using high-quality materials, such as steel, concrete, and glass, to ensure durability and energy efficiency.

10. **Fire Protection**: Fire protection is an integral part of the design, with fire protection systems installed to prevent the spread of fire.

11. **Architectural Details**: The architectural details include the layout, dimensions, and design specifications of the power plant.

12. **Installation Instructions**: Specific installation instructions are provided for each module to ensure proper installation and operation.

13. **Revision History**: The sheet is subject to revisions, and all changes will be documented to maintain compliance with the relevant codes and standards.

14. **Construction Documents**: The construction documents include plans, specifications, and other design-related information.

15. **Architectural Design**: The architectural design includes the overall layout and aesthetic considerations of the power plant.

16. **Code Compliance**: All components of the power plant are designed to comply with the relevant codes and standards, including the National Electrical Code (NEC) and International Building Code (IBC).

17. **Materials**: The materials used in the construction of the power plant are selected based on their durability, energy efficiency, and compliance with the relevant codes and standards.

18. **Construction Specifications**: The construction specifications include detailed instructions for the installation of each module and component.

19. **Revision History**: The sheet is subject to revisions, and all changes will be documented to maintain compliance with the relevant codes and standards.

20. **Architectural Design**: The architectural design includes the overall layout and aesthetic considerations of the power plant.
THIS SHEET SHOWS MODULE REQUIREMENTS WHICH IS N.I.C. AND IS PROVIDED FOR REFERENCE ONLY EXCEPT AS SPECIFICALLY NOTED.

INSTALL OWNER FURNISHED DOOR "107" AND WINDOW "A" AT GRID 3 UNDER THIS PROJECT.
This sheet shows roof structure which is provided by this project. The remainder of the work is N.I.C. and is provided for reference only.
THIS SHEET SHOWS MODULE REQUIREMENTS WHICH IS N.I.C. AND IS PROVIDED FOR REFERENCE ONLY UNLESS SPECIFICALLY NOTED.

INSTALL OWNER FURNISHED DOOR "107" AND WINDOW "A" AT GRID 3 UNDER THIS PROJECT.
THIS SHEET SHOWS ROOF STRUCTURE WHICH IS PROVIDED BY THIS PROJECT.
EXCEPT:

1. **MODULE FOUNDATION AND CATWALK FRAMING SHALL BE PRIMED THE SAME AS THE BFU CONTAINMENT STRUCTURE FRAMEING BELOW DIKE FLOOR AS SPECIFIED IN SECTION 09 97 13.23 - EXTERIOR STEEL COATINGS.**

2. **TOPS OF PILES SHALL BE COATED AS INDICATED ON DETAIL 2/C1.3 AND AS SPECIFIED IN SECTION 31 62 16 - DRIVEN STEEL PILES.**

3. **CATWALKS, GRATING, STAIRS, HANDRAILS AND GUARDRAILS SHALL BE HOT DIP GALVANIZED AS SPECIFIED IN SECTION 05 50 00 - METAL FABRICATIONS.**

ALL STEEL PIPE (PILE) SHALL BE ASTM A252 GRADE 3 (45 KSI), SEE SECTION 01 11 13 - "SUMMARY OF WORK" AND PARAGRAPH TITLED "IMPORTANT NOTES TO CONTRACTOR" FOR PILE OPTION.

---

**PILE LOADS**

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<th>B2</th>
<th>B3</th>
<th>B4</th>
<th>B5</th>
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<td>28.4</td>
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</tr>
</tbody>
</table>

**NOTES:**

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

---

**STRUCTURAL GENERAL NOTES**

A. \[ \text{RADIALL CASING} \]

1. 2005 INTERNATIONAL BUILDING CODE (IBC 2005)

---

**PILE PLAN**

---

**PILE PLAN**

---

**EXCEPT:**

1. **MODULE FOUNDATION AND CATWALK FRAMING SHALL BE PRIMED THE SAME AS THE BFU CONTAINMENT STRUCTURE FRAMEING BELOW DIKE FLOOR AS SPECIFIED IN SECTION 09 97 13.23 - EXTERIOR STEEL COATINGS.**

2. **TOPS OF PILES SHALL BE COATED AS INDICATED ON DETAIL 2/C1.3 AND AS SPECIFIED IN SECTION 31 62 16 - DRIVEN STEEL PILES.**

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ALL STEEL PIPE (PILE) SHALL BE ASTM A252 GRADE 3 (45 KSI), SEE SECTION 01 11 13 - "SUMMARY OF WORK" AND PARAGRAPH TITLED "IMPORTANT NOTES TO CONTRACTOR" FOR PILE OPTION.
NOTES

2" SERRATED BAR GRATING FOR WALKWAYS, TO SPAN 6'-0" (TYP)

C12x20.7 STAIR CHANNELS (TYP)

S10 6" - 0"
S8 3' - 0"
S7 1" - 0"

MC10x28.5 FOR ELECTRICAL POLE EYEBOLT FOR ELECTRICAL GUY WIRE 6"

12" Ø XS PILE (TYP OF 7)

CANTILEVER FB-5 @ GRIDS "B" THROUGH "E"

CANTILEVER FB-5 @ GRIDS "B" THROUGH "E"

S10 1" - 0"
S8 2" - 0"
S7 1" - 0"

FIELD VARIFY VARIES

REMOVABLE GUARDRAIL AROUND DECK (TYP), PER

THIS SHEET SHOWS POWER PLANT MODULE FOUNDATION FRAMING, PLATFORMS, CATWALKS, STAIRS, HANDRAILS, AND GUARDRAILS WHICH ARE PROVIDED BY THIS PROJECT.
NOTES

1. FABRICATE FLOOR AND PAN DECKS USING 5' WIDE SHEETS WITH ALL JOINTS CENTERED ON PURLINS & JOISTS.

2. SEE MECHANICAL SUPPORT PLAN MS1 FOR GENERATOR SUPPORT PEDESTAL LOCATIONS AND FABRICATION.

3. SEE ARCHITECTURAL FOR NON-STRUCTURAL COLUMNS.

PL 3/8" FLOOR PLATE IN GENERATOR ROOMS
L3x3x1/4 (FR-5) PURLINS WITH L1-1/2x1-1/2x3/16 BELOW (TYP 5 RUNS)

GENERATOR LOCATIONS (PER AEA, SEE NOTE 2)

3' - 8" 3' - 8" 3' - 0" 3' - 0" 3' - 4" 3' - 4" 3' - 8" 3' - 8" 3' - 8" 3' - 0" 2' - 6" 2' - 6" 3' - 0" 3' - 10" 3' - 10"

SIMILAR @ ALL DECK CORNERS (TYP)

PL 1/4" FLOOR PLATE

FR-2 DOUBLE FB-3's AND FR-2's

2' - 4" 1' - 4" 1' - 8" 2' - 2"

THIS SHEET SHOWS MODULE REQUIREMENTS WHICH IS N.I.C. AND IS PROVIDED FOR REFERENCE ONLY.
CEILING FRAMING PLAN

THIS SHEET SHOWS MODULE REQUIREMENTS WHICH IS N.I.C. AND IS PROVIDED FOR REFERENCE ONLY.
THIS SHEET SHOWS MODULE REQUIREMENTS WHICH IS N.I.C. AND IS PROVIDED FOR REFERENCE ONLY.
THIS SHEET SHOWS ROOF STRUCTURE WHICH IS PROVIDED BY THIS PROJECT.

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

2. 2x6 OUTLOOKERS @ 24" OC

5/8" SHEATHING WITH JOINTS THUMBNAILED WITH 8d @ 6" OC.

3. 5/8" CONTINUOUS SHEATHING @ 4' - 0" WITH END NAILING (8d @ 6" OC) @ EACH END OF BUILDING ONLY

4. 5/8" SHEATHING

6. 2x8 BLOCKING BETWEEN TRUSSES

7. 5/8" SHEATHING

8. HSS 6x4x1/4

9. 1/2"x2 1/2" STAINLESS STEEL THREADED STUD FOR ROOF FRAMING CONNECTION (TYP)

10. 1/4" = 1'-0" SHEET

11. TRUSS SECTION

12. GABLE SECTION

NOTES:

THIS SHEET SHOWS ROOF STRUCTURE WHICH IS PROVIDED BY THIS PROJECT.
THIS SHEET SHOWS PILE FOUNDATION, FOUNDATION FRAMING AND CATWALK WHICH ARE PROVIDED BY THIS PROJECT. POWER PLANT MODULE IS SHOWN, ALTHOUGH IT IS N.I.C. PLACEMENT OF MODULE ON ITS FOUNDATION IS PROVIDED BY THIS PROJECT.

REPLACE REFERENCE ELEVATIONS WITH PILE CAP ELEVATION SHOWN ON SHEET C1.3
WORK SHOWN ON THIS SHEET IS PROVIDED BY THIS PROJECT.

1 1/2" = 1'-0"  

1 BEAM CONNECTION DETAIL

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

2 DOUBLE BEAM CONNECTION DETAIL
1. CANTILEVER SUPPORT SECTION

2. POWER POLE CONNECTION @ GRID "3"

3. PILE DRIVING TIP

WORK SHOWN ON THIS SHEET IS PROVIDED BY THIS PROJECT.

REPLACE REFERENCE ELEVATIONS WITH PILE CAP ELEVATION SHOWN ON SHEET C1.3
WORK SHOWN ON THIS SHEET IS PROVIDED BY THIS PROJECT.

NOTE: PER SHEET
C1.2 PROVIDE (5) STEPS, (6) RISES AND 6.5" RISES FOR MODULE STAIRS.

PER SHEET
C1.2 PROVIDE (5) STEPS, (6) RISES AND 6.5" RISES FOR MODULE STAIRS.
This sheet shows module requirements which is N.I.C. and is provided for reference only except as otherwise noted.

Provide gaskets and make bolted connections at Grid 3 under this project.
This sheet shows module requirements which is N.I.C. and is provided for reference only.
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EQUIPMENT ON SCHEDULES THIS SHEET ARE FURNISHED AS PART OF THE MODULE SHOP FABRICATION WORK THAT IS N.I.C. MOST ITEMS ARE ALSO SHOP INSTALLED. EQUIPMENT REQUIRING FINAL FIELD INSTALLATION ARE SHOWN CLOUDED.
ALL WORK THIS SHEET IS PROVIDED BY PROJECT.
SPECIFICATIONS THIS SHEET APPLY TO BOTH MODULE SHOP FABRICATION WORK AND FIELD INSTALLATION WORK. REFER TO OTHER SHEETS FOR DELINEATION OF FIELD WORK.
THIS SHEET SHOWS MODULE SHOP
FABRICATION WORK THAT IS N.I.C. AND
IS PROVIDED FOR REFERENCE ONLY.
This sheet shows primarily module shop fabrication work that is N.I.C. portions that pertain to field installation work are shown clouded.
THIS SHEET SHOWS PRIMARILY MODULE SHOP FABRICATION WORK THAT IS N.I.C. PORTIONS THAT PERTAIN TO FIELD INSTALLATION WORK ARE SHOWN CLOUDED.
This sheet shows primarily Module Shop fabrication work that is N.I.C. portions that pertain to field installation work are shown clouded.
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FIELD INSTALL EXTERIOR HOODS. ALL OTHER WORK SHOWN IS PART OF MODULE SHOP FABRICATION THAT IS N.I.C. PRIOR TO INSTALLING ROOF TRUSSES, REMOVE CEILING AIR INTAKE COVERS.
THIS SHEET SHOWS MODULE SHOP FABRICATION WORK THAT IS N.I.C. AND IS PROVIDED FOR REFERENCE ONLY.
PRIOR TO PACKAGING MODULE FOR SHIPPING, DISCONNECT WIRING AT SHIPPING SPLIT, REMOVE EXTERIOR ALARM HORNS AND BACKBOXES, COIL CONDUCTORS INSIDE, AND SEAL WALL PENETRATIONS. IN FIELD RE-INSTALL AND TERMINATE.
THIS SHEET SHOWS MODULE SHOP FABRICATION WORK THAT IS N.I.C. AND IS PROVIDED FOR REFERENCE ONLY.
SPECIFICATIONS AND EQUIPMENT SCHEDULE

THIS SHEET APPLY TO BOTH MODULE SHOP FABRICATION WORK AND FIELD INSTALLATION WORK. REFER TO OTHER SHEETS FOR DELINEATION OF FIELD WORK.
THIS SHEET SHOWS PRIMARILY MODULE SHOP FABRICATION WORK THAT IS N.I.C. PORTIONS THAT PERTAIN TO FIELD INSTALLATION WORK ARE SHOWN CLOUDED.
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SHOP FABRICATION WORK THAT IS N.I.C.
PORTIONS THAT PERTAIN TO FIELDINSTALLATION WORK ARE SHOWN CLOUDED.
THIS SHEET SHOWS MODULE SHOP FABRICATION WORK THAT IS N.I.C. AND IS PROVIDED FOR REFERENCE ONLY.
ANCHOR DECK ATTACH DETAILS

NOTES:
1. BOLT HOLES SHALL BE DRILLED AT 1/8" LARGER THAN BOLTS.
2. V2-1/16 DRILLING.
3. ANCHOR ROD WILL BE BURIED AGAINST NC CHANNEL FOR ITS ENTIRE LENGTH. TIGHTEN BOLTS SEQUENTIALLY AND EVERY BOLT SHALL BE TIGHTENED UNTIL ALL FLANGE APPLIANCE (IFS) THE WOOD POLE 1/8".
4. TEMP BOLTS TO BE WITHIN 1" OF MF LOCKNUT. MF BENDING ENDS OF BOLTS AFTER ASSEMBLY TO DISCOURAGE REMOVAL OF BOLT. PERFORM IN A MAXIMUM OF ALLENS KEY OR LOCKNUT TIGHTENING OR MF TYP. OF 1.
5. SEE SHEET 52 FOR MOUNTING OF CHANNEL TO DECK STRUCTURE.

MATERIAL LIST

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<th>Description</th>
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<tbody>
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<td>a</td>
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<td>BOLT, 3/4&quot; R.F. L/R, OR EQUAL</td>
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<tr>
<td>b</td>
<td>1</td>
<td>WASH. STEEL. SQUARE SECOG. 1/4&quot; THICK, W 1/8&quot; ROLL, MFLN/4 1 3/8&quot; OR EQUAL</td>
</tr>
<tr>
<td>c</td>
<td>1</td>
<td>LOCKNUT, 3/4&quot; MF TYP.</td>
</tr>
<tr>
<td>d</td>
<td>1</td>
<td>SCREW, #10, 2&quot;</td>
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<tr>
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<td>CONNECTOR, SECOG. AS REQUIRED</td>
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<td>DECKING CLIP, SECOG. AS REQUIRED</td>
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<td>g</td>
<td>1</td>
<td>CEMENT, 1 3/4&quot; D.T.G. OR EQUAL</td>
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<td>LOCKNUT, 3/8&quot; MF TYP.</td>
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2. CONTRACTOR SHALL INSTALL ANCHOR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

MATERIAL LIST
NOTES:
1. CLAMP HOT-LINE CLAMP OVER BURNT.
2. JUMPERS SHALL NOT PASS THROUGH LIGHTNING AERATOR AND
   SHALL TERMINATE AT BURNT WALL OR AT TERMINAL AMPLE WALL.
   JUMPERS ARE NOT DISCONNECTABLE WITHOUT SPACING OR REPLACING THE JUMPERS.
3. GROUND, ARRESTER, TERMINATION, RISER PIPE, AND NEUTRAL TO POLE GROUND.
4. RAIN/AND A MINIMUM OF 8" SEPARATION BETWEEN MOUNTING STAND-OFF BRACKETS.
5. INSTALL FIRST RISE GROUNDING CLAMP BELOW BOTTOM STAND-OFF BRACKET, INSTALL SECOND
   GROUNDING CLAMP ABOVE SECOND STAND-OFF BRACKET.

MATERIAL LIST

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<td>PRIMARY RISER</td>
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<tr>
<td>2</td>
<td>RISER TO Transformer CONNECTION</td>
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<tr>
<td>3</td>
<td>LIQUIDITE CONNECTOR</td>
</tr>
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</table>

DRAWING TITLE: EER1.3
DATE: 7/6/17
DRAWN BY: HR
CHECKED BY: RS
DEPT NUMBER: 701453
ISSUED FOR CONSTRUCTION
STATE OF ALASKA, ADEA/AEA
RURAL POWER SYSTEM UPGRADE
PREPARED FOR: UMAQ
PREPARED BY: UMAQ

2 RISK TO TRANSFORMER CONNECTION
3 LIQUIDITE CONNECTOR
1 PRIMARY RISER

PORT TO SCALE
PORT TO SCALE
PORT TO SCALE