

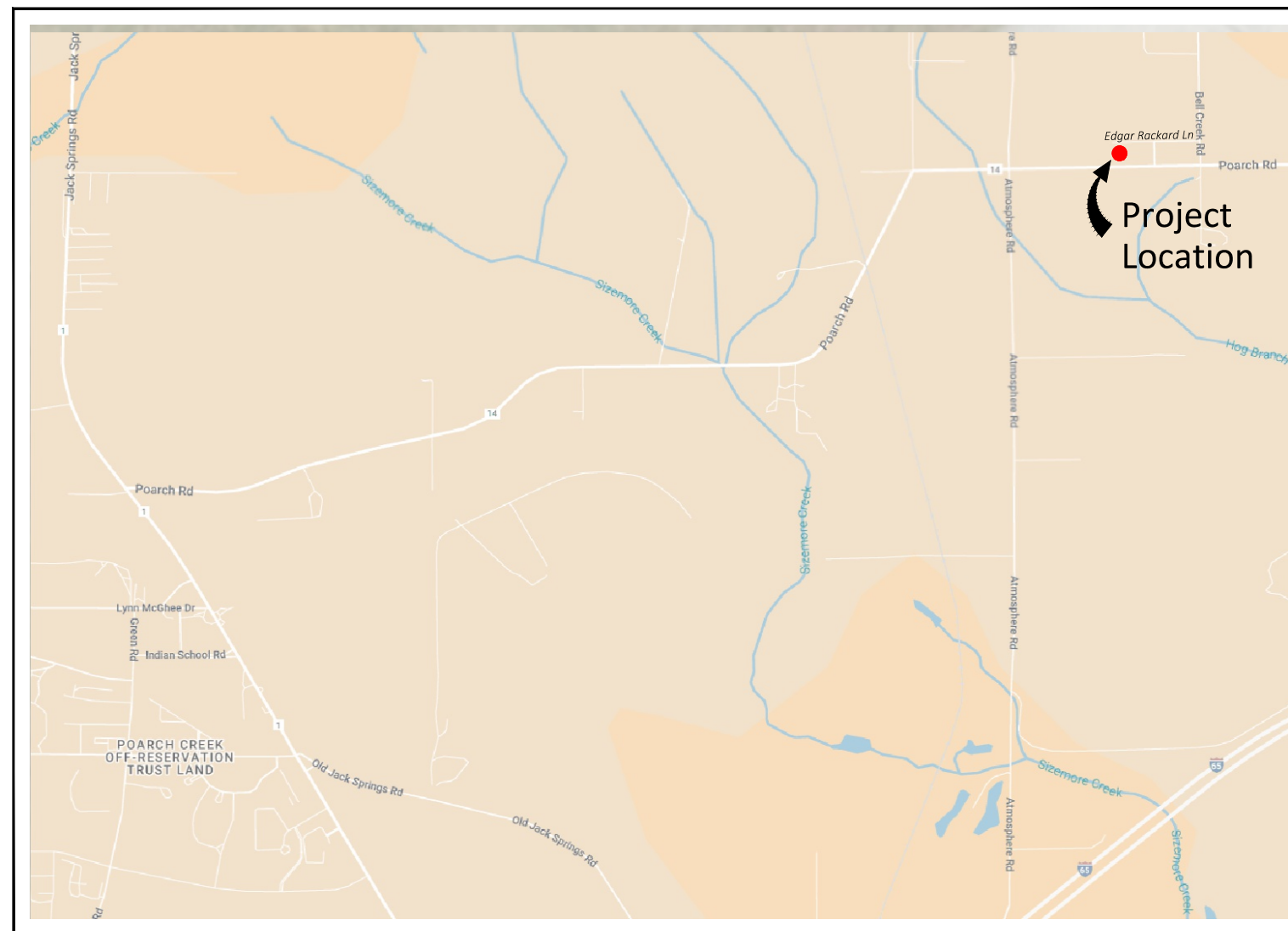
EAST WELL IMPROVEMENTS

POARCH CREEK INDIANS UTILITIES AUTHORITY

Project No. 25P2001

Atmore, Alabama

January 2026



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Executive Director

Josh Thomas

Operations Manager

Shaun Livermore

Maintenance Superintendent

Jamie Ramer



Post Office Box 1900
Andalusia, Alabama 36420
866.245.0584



GENERAL NOTES:

1. ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING THE CONSTRUCTION OF THIS WORK SHALL BE SECURED PRIOR TO CONSTRUCTION.
2. ANY WORK UNACCEPTABLE TO THE OWNER'S REPRESENTATIVE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
3. THE CONTRACTOR SHALL CONTACT "ONE CALL" (811) 72 HOURS PRIOR TO PROCEEDING WITH ANY EXCAVATION. EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE LOCATIONS ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES WITHIN THE PROJECT AREA.

UTILITY NOTES:

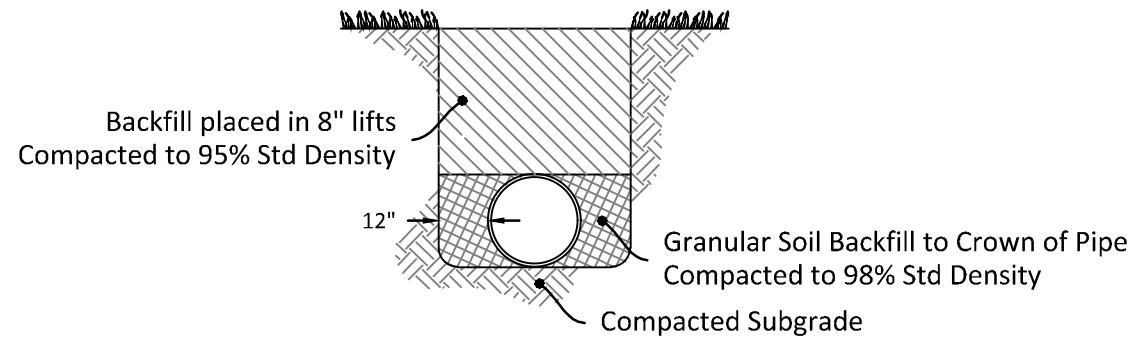
1. ALL EQUIPMENT, WATER MAIN, AND APPURTENANCES SHALL BE OF MATERIALS AND CONSTRUCTION THAT CONFORM TO THE UTILITY OWNER'S REQUIREMENTS AND SPECIFICATIONS.
2. NO. 12 COPPER TRACER WIRE SHALL BE INSTALLED 6" ABOVE ALL WATER MAIN.
3. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL CHARTED AND UNCHARTED UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
4. BEFORE CONNECTIONS ARE MADE INTO EXISTING UTILITIES, THE NEW LINES ARE TO BE FLUSHED AND TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE OWNERS SPECIFICATIONS.
5. THE CONTRACTOR SHALL PROVIDE ALL HORIZONTAL AND VERTICAL BENDS TO OBTAIN THE ALIGNMENT INDICATED ON THE PLANS. PROVIDE VERTICAL BENDS WHERE NECESSARY TO ALLOW WATER LINES TO PASS UNDER OR OVER OTHER UTILITY LINES (ALL BENDS AND BRACES NEEDED MAY NOT BE ACTUALLY SHOWN). PROVIDE MEGALUGS AT ALL BENDS AND TEES AS REQUIRED BY THE UTILITY OWNER.
6. THE CONTRACTOR SHALL VERIFY REQUIRED PIPE LENGTHS, EXISTING PIPE MATERIAL AND SIZES AS SHOWN ON PLANS.
7. ANY DEVIATIONS FROM THE DESIGN LOCATIONS OF THE PROPOSED IMPROVEMENTS SHALL BE REPORTED TO THE OWNER AND ENGINEER.
8. REPAIR EXISTING PAVEMENT, CURBS, WALKS, LANDSCAPING, ETC. THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES TO A LIKE NEW CONDITION AT NO ADDITIONAL COST TO THE OWNER.

NOTES							
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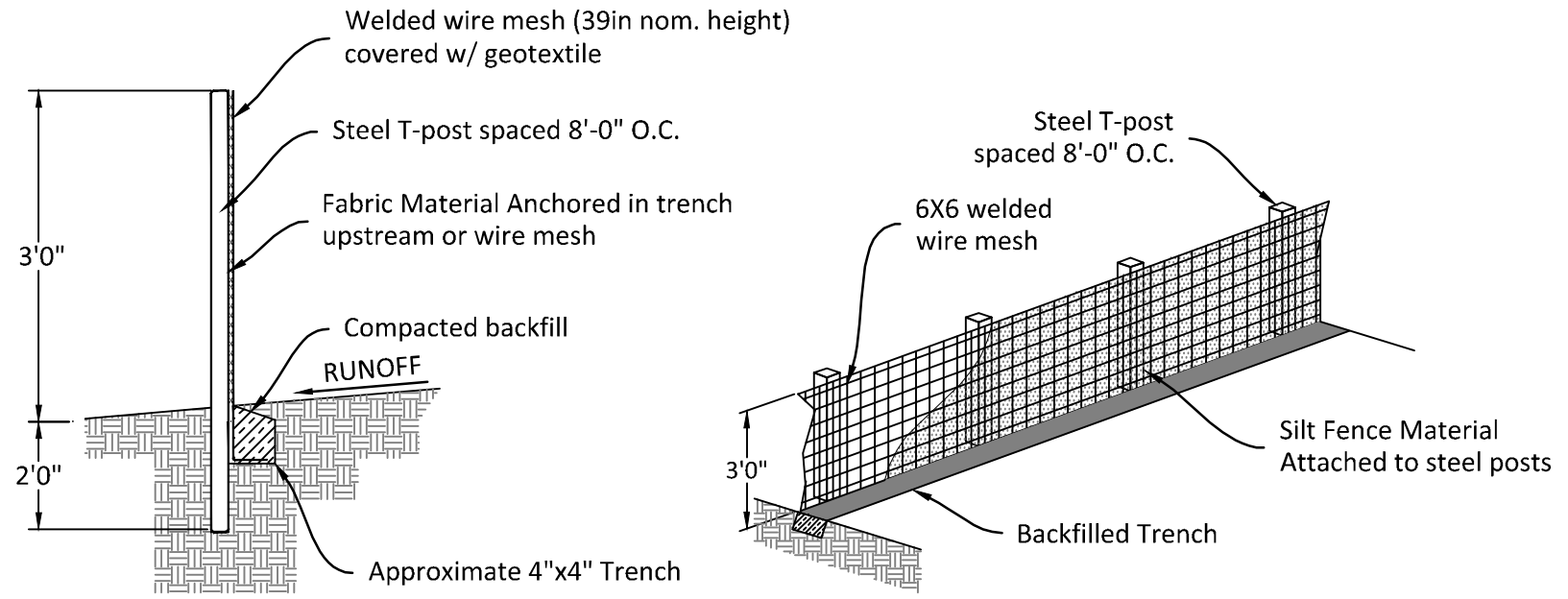
<u>CONTACTS:</u>		
PCI Utilities Authority Maintenance Superintendent Jamie Ramer 251.253.5881	PCI Utilities Authority Maintenance Foreman Nathan Dortch 251.359.3165	Civil Southeast Project Manager Chase Cotton, PE 334.488.0933

PROJECT:	WEST WELL IMPROVEMENTS
SHEET TITLE:	NOTES



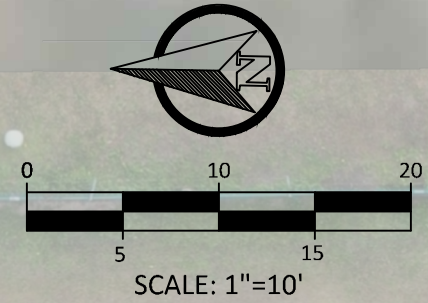
Pipe Bedding in Unpaved Areas
NTS

NOTES



Silt Fence Installation
NTS

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WEST WELL IMPROVEMENTS			PRELIMINARY
SHEET TITLE: DETAILS			PLAN SUBMITTAL:



Req'd
Replace Existing 8" Piping and Valves with:
1 ~ 10" Check Valve
1 ~ 10" Gate Valve
1 ~ 10x8 Tee
1 ~ 8" Gate Valve
1 ~ 8" 90 Bend
1 ~ 10x10 Tee

Req'd
Mini Split HVAC
See Sheet 5

Req'd
Replace Existing 8" Piping and Valves with:
1 ~ 10x10 Tee
1 ~ 8" HP Turbine Meter
1 ~ 10" Gate Valve
1 ~ 10" Check Valve
2 ~ 10" 90 Bend

Existing Deep Well
Upgrade to 1200 GPM
(by Griner Drilling)

Req'd
Tie to 10" Well Head

Existing Concrete
Waste Pit (Retain)

Existing 10" Valves,
Piping, and UV System
(Retain)

Existing Chlorine System
(Upgrade Rotameter to a 50 PPD)

Existing Soda Ash System
(Upgrade - Aqua Products)

Existing Flouride System
(Upgrade - Aqua Products)

Req'd
Electrical Improvements
See Sheets 5-7

Req'd
Replace Existing 40 LF of 8" DI w/ 10" DI
1 ~ 10x6 Tee
Tie to Ex FH Assembly
2 ~ 10x8 Tee
2 ~ 8" Gate Valve
2 ~ 8" Cap
1 ~ 10" Gate Valve
1 ~ 10x12 Reducer at Existing System Tie-in

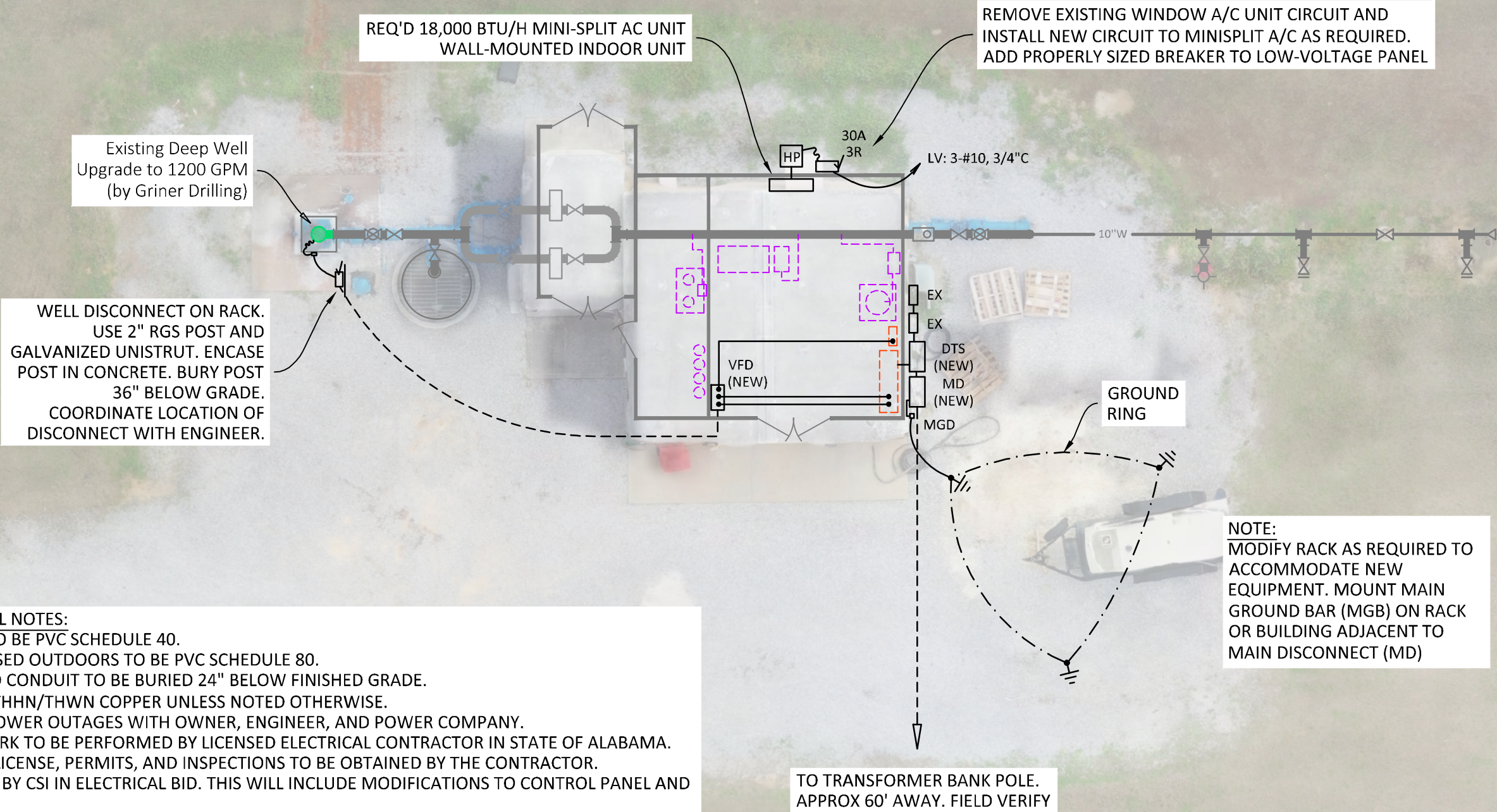
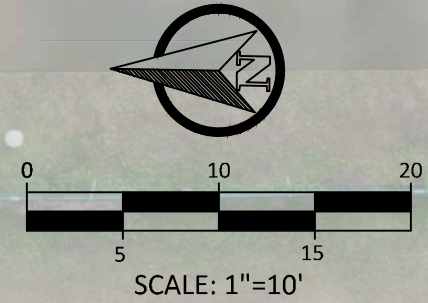
- Notes:**
- Contractor shall verify all existing conditions prior to construction and notify the Engineer of any discrepancies.
 - Existing piping, valves, and supports to be removed as necessary to accommodate new 10-inch piping and valves.
 - Contractor shall coordinate all work, schedule, and access with Griner Drilling, who will be performing the deep well improvements in conjunction with this contract. Work sequencing shall be planned to avoid interference between contractors.
 - Existing pipe supports shall be adjusted, modified, or replaced as required to properly support new piping and valves.
 - Contractor shall coordinate new piping tie-ins with existing systems to minimize downtime.
 - All existing utilities and structures in the work area shall be protected during construction. Any damage shall be repaired at no additional cost to the Owner.
 - The existing UV disinfection system shall remain in place and operational; contractor shall exercise care to avoid damage to UV components, conduits, or control wiring.
 - All disturbed surfaces, foundations, coatings, insulation, and appurtenances shall be restored to existing or better condition upon completion.
 - Contractor shall furnish all labor, materials, fittings, adapters, and incidentals necessary to provide a complete and functional installation, even if not specifically shown or called out.
 - Contractor shall verify dimensions and alignment prior to fabrication of new piping.
 - Coordinate all shutdowns, tie-ins, and testing with the Owner a minimum of 48 hours in advance.

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PLAN SUBMITTAL:	PRELIMINARY

PROJECT:	EAST WELL IMPROVEMENTS
SHEET TITLE:	SITE PLAN



GENERAL ELECTRICAL NOTES:

1. ALL CONDUIT TO BE PVC SCHEDULE 40.
2. CONDUIT EXPOSED OUTDOORS TO BE PVC SCHEDULE 80.
3. UNDERGROUND CONDUIT TO BE BURIED 24" BELOW FINISHED GRADE.
4. WIRING TO BE THHN/THWN COPPER UNLESS NOTED OTHERWISE.
5. COORDINATE POWER OUTAGES WITH OWNER, ENGINEER, AND POWER COMPANY.
6. ELECTRICAL WORK TO BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR IN STATE OF ALABAMA. ALL REQUIRED LICENSE, PERMITS, AND INSPECTIONS TO BE OBTAINED BY THE CONTRACTOR.
7. INCLUDE WORK BY CSI IN ELECTRICAL BID. THIS WILL INCLUDE MODIFICATIONS TO CONTROL PANEL AND SCADA WORK.
8. ALL EXISTING CHEMICAL EQUIPMENT, TREATMENT EQUIPMENT, LIGHTS, CONVENIENCE OUTLETS, ETC. TO REMAIN IN OPERATION.
9. COORDINATE ALL SCADA WORK WITH T.J. GIDEON (HIGHVIZ) 334.301.0784. INCLUDE SCADA WORK IN YOUR ELECTRICAL BID.

NOTE:
 MODIFY RACK AS REQUIRED TO ACCOMMODATE NEW EQUIPMENT. MOUNT MAIN GROUND BAR (MGB) ON RACK OR BUILDING ADJACENT TO MAIN DISCONNECT (MD)

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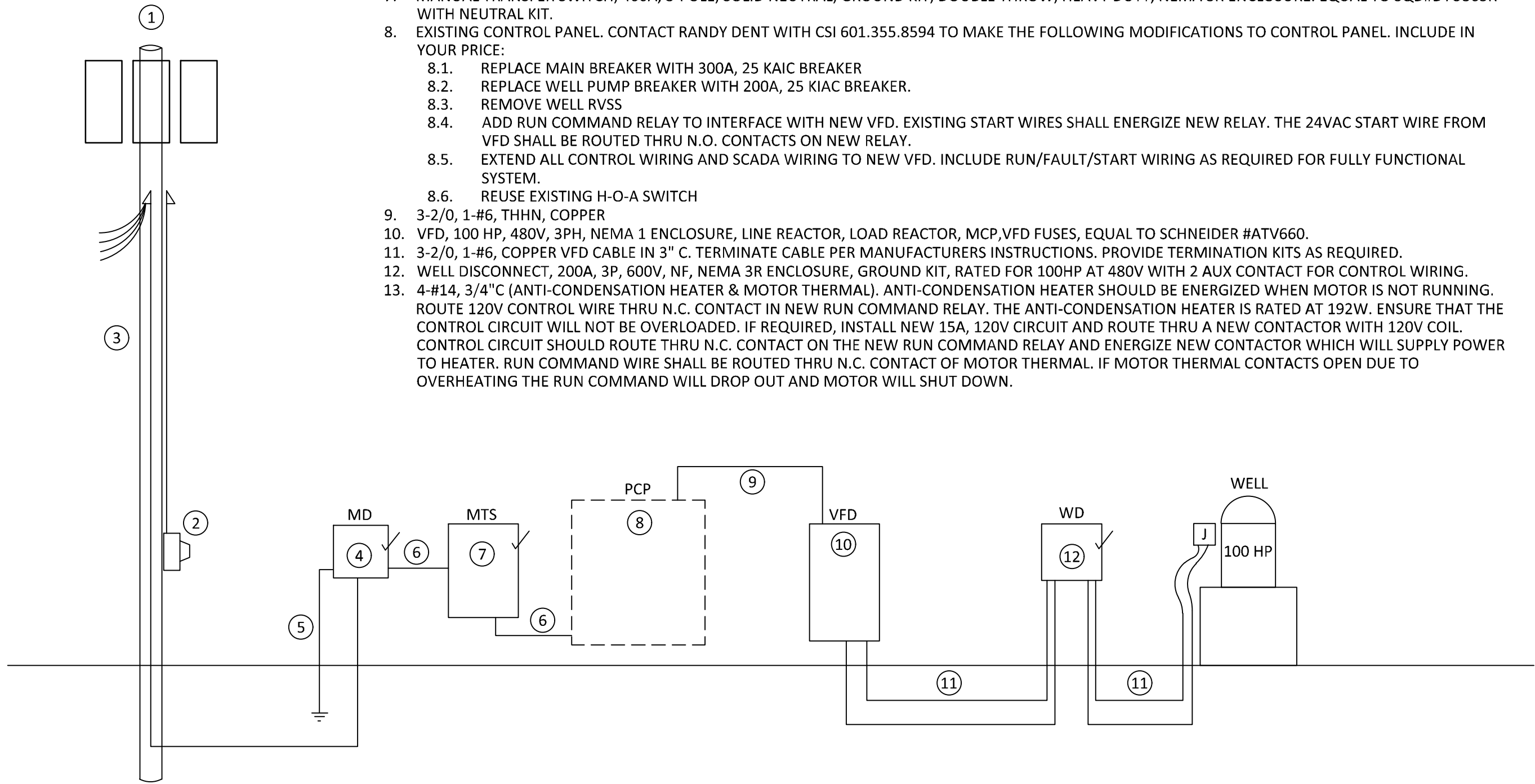
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 PLAN SUBMITTAL: PRELIMINARY

PROJECT: EAST WELL IMPROVEMENTS
 SHEET TITLE: SITE PLAN - ELECTRICAL

NOTES:

1. EXISTING SOUTHERN PINE ELECTRIC CO-OP TRANSFORMER BANK POLE TO REMAIN.
2. EXISTING CT METER TO REMAIN
3. EXISTING UG SERVICE TO BE REPLACED WITH 4-350 THHN COPPER IN 3" C. IF EXISTING CONDUIT IS CORRECT SIZE IT CAN BE REUSED. POWER OUTAGE MUST BE COORDINATED A WEEK IN ADVANCE WITH SOUTHERN PINE ELECTRIC CO-OP, OWNER, AND ENGINEER. SOUTHERN PINE WILL UPGRADE TRANSFORMER BANK AND ASSIST PULLING NEW SERVICE CONDUCTOR UP POLE. CONTACT IS ADAM ADAMS 251.238.1377.
4. REPLACE EXISTING MAIN DISCONNECT WITH 400A, 277/480V, 3PH, 4W, FUSIBLE, S.E.RATED, NEMA 3R DISCONNECT WITH NEUTRAL AND GROUND KIT. FUSE AT 300A.
5. #2 BARE COPPER TO MGB - SEE GROUNDING DETAIL
6. 4-350, 1-#4, THHN COPPER, 3" C
7. MANUAL TRANSFER SWITCH, 400A, 3-POLE, SOLID NEUTRAL, GROUND KIT, DOUBLE THROW, HEAVY DUTY, NEMA 3R ENCLOSURE. EQUAL TO SQD#DTU365R WITH NEUTRAL KIT.
8. EXISTING CONTROL PANEL. CONTACT RANDY DENT WITH CSI 601.355.8594 TO MAKE THE FOLLOWING MODIFICATIONS TO CONTROL PANEL. INCLUDE IN YOUR PRICE:
 - 8.1. REPLACE MAIN BREAKER WITH 300A, 25 KAIC BREAKER
 - 8.2. REPLACE WELL PUMP BREAKER WITH 200A, 25 KIAK BREAKER.
 - 8.3. REMOVE WELL RVSS
 - 8.4. ADD RUN COMMAND RELAY TO INTERFACE WITH NEW VFD. EXISTING START WIRES SHALL ENERGIZE NEW RELAY. THE 24VAC START WIRE FROM VFD SHALL BE ROUTED THRU N.O. CONTACTS ON NEW RELAY.
 - 8.5. EXTEND ALL CONTROL WIRING AND SCADA WIRING TO NEW VFD. INCLUDE RUN/FAULT/START WIRING AS REQUIRED FOR FULLY FUNCTIONAL SYSTEM.
 - 8.6. REUSE EXISTING H-O-A SWITCH
9. 3-2/0, 1-#6, THHN, COPPER
10. VFD, 100 HP, 480V, 3PH, NEMA 1 ENCLOSURE, LINE REACTOR, LOAD REACTOR, MCP,VFD FUSES, EQUAL TO SCHNEIDER #ATV660.
11. 3-2/0, 1-#6, COPPER VFD CABLE IN 3" C. TERMINATE CABLE PER MANUFACTURERS INSTRUCTIONS. PROVIDE TERMINATION KITS AS REQUIRED.
12. WELL DISCONNECT, 200A, 3P, 600V, NF, NEMA 3R ENCLOSURE, GROUND KIT, RATED FOR 100HP AT 480V WITH 2 AUX CONTACT FOR CONTROL WIRING.
13. 4-#14, 3/4"C (ANTI-CONDENSATION HEATER & MOTOR THERMAL). ANTI-CONDENSATION HEATER SHOULD BE ENERGIZED WHEN MOTOR IS NOT RUNNING. ROUTE 120V CONTROL WIRE THRU N.C. CONTACT IN NEW RUN COMMAND RELAY. THE ANTI-CONDENSATION HEATER IS RATED AT 192W. ENSURE THAT THE CONTROL CIRCUIT WILL NOT BE OVERLOADED. IF REQUIRED, INSTALL NEW 15A, 120V CIRCUIT AND ROUTE THRU A NEW CONTACTOR WITH 120V COIL. CONTROL CIRCUIT SHOULD ROUTE THRU N.C. CONTACT ON THE NEW RUN COMMAND RELAY AND ENERGIZE NEW CONTACTOR WHICH WILL SUPPLY POWER TO HEATER. RUN COMMAND WIRE SHALL BE ROUTED THRU N.C. CONTACT OF MOTOR THERMAL. IF MOTOR THERMAL CONTACTS OPEN DUE TO OVERHEATING THE RUN COMMAND WILL DROP OUT AND MOTOR WILL SHUT DOWN.



RISER DIAGRAM

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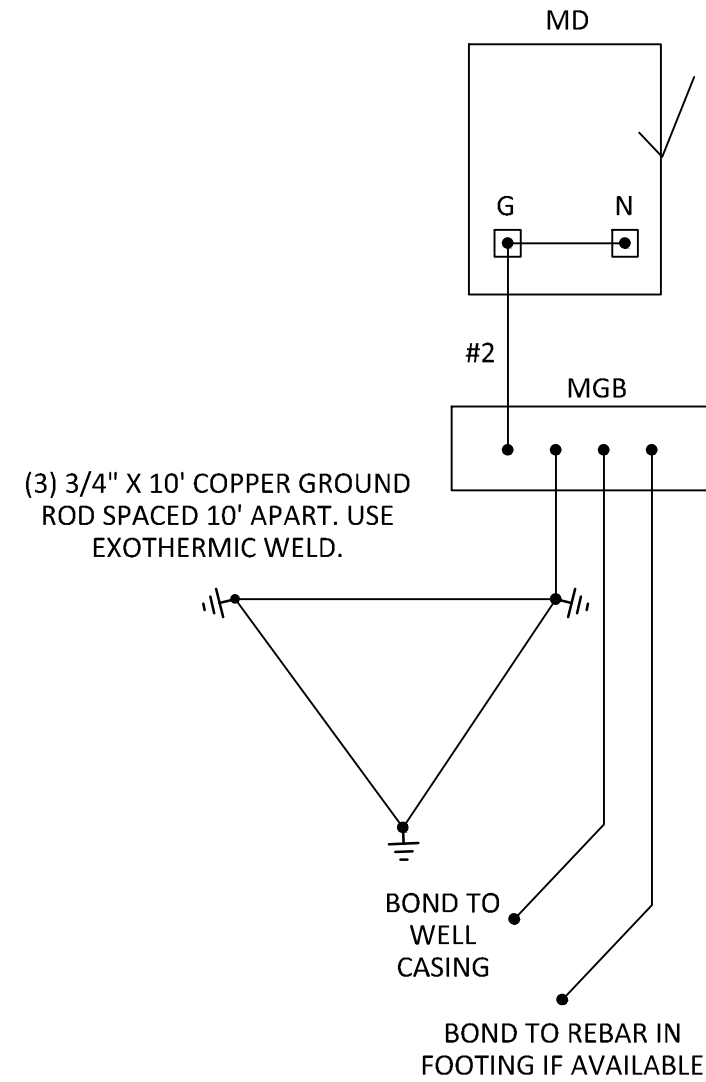
PROJECT: EAST WELL IMPROVEMENTS

SHEET TITLE: ELECTRICAL - RISER DIAGRAM

MGB: MAINGROUND BUS, COPPER, 12"L X 4"W X 1/4" THICK STANDOFF BRACKETS, INSULATORS, ETC.

NOTES:

1. TERMINATIONS TO MGB SHALL BE BY COMPRESSION LUGS, USE STAINLESS STEEL BOLT, NUT, WASHER, WITH CORROSION INHIBITING COMPUND.
2. BURY GROUNDING ELECTRODE CONDUCTOR 24" DEEP. USE #2 BARE, STRANDED, TINNED COPPER.
3. USE EXOTHERMIC WELD CONNECTION BELOW GRADE.
4. DRIVE GROUND RODS 12" BELOW GRADE.
5. USE U.L. CLAMP FOR CONNECTION TO VENT PIPE ON WELL CASING OR EXOTHERMIC WELD TO WELL CASING.



GROUNDING DETAIL

NOTES

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SHEET TITLE: ELECTRICAL - GROUNDING DETAIL