



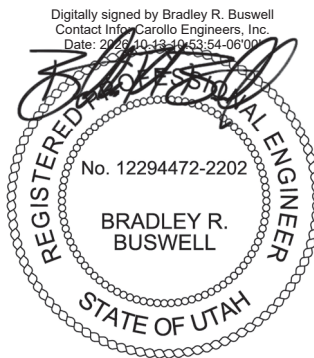
**MOUNTAIN REGIONAL WATER SPECIAL SERVICE DISTRICT  
PARK CITY, UTAH**

**SIGNAL HILL WATER TREATMENT PLANT OPTIMIZATION**

**ENGINEER PROJECT NO. 203230**

**ADDENDUM NO. 2  
TO THE  
CONTRACT DOCUMENTS**

**OCTOBER 13, 2026**



Bidders on the above-named project are hereby notified that the Bidding Documents are modified as indicated below. Bidders are required to acknowledge receipt of this Addendum in the space provided on the Document 00\_41\_00 - Bid Form.

This Addendum shall become part of the Contract and provisions of the Contract apply.

## **SPECIFICATIONS**

The following sections are modified as indicated below.

1. SECTION 00\_21\_13 - INSTRUCTIONS TO BIDDERS:
  - a. REPLACE paragraph 21.01 in its entirety with the following language:
    - 1) "Contractor shall pay all sales, use and other taxes as specified in Document 00\_72\_00 - General Conditions."
2. SECTION 00\_41\_00 - BID FORM:
  - a. ADD the price in figures for Bid Item Number 6 - Owner specified instrumentation and controls subcontractor (ICSC) as \$670,000.00.
3. SECTION 00\_73\_00 - SUPPLEMENTARY CONDITIONS:
  - a. ADD the following new language as a subparagraph to Paragraph 7.09.A:
    - 1) "Contractor shall obtain the building permit with Summit County. The Owner will pay for the building permit."
4. SECTION 01\_20\_20 - MEASUREMENT AND PAYMENT:
  - a. ADD the following language as new paragraph 1.02.E.1.c in its entirety under Item 5: Temporary Membrane Filtration System:
    - 1) "Includes ICSC services at the cost of \$44,700.00 per Appendix E - Instrumentation and Controls Subcontractor (ICSC) Services."
  - b. ADD the following language at the end of paragraph 1.02.F.1.a under Item 6: Owner specified instrumentation and controls subcontractor (ICSC):
    - 1) "See Appendix E - Instrumentation and Controls Subcontractor (ICSC) Services."
  - c. ADD the following language as new paragraph 1.02.H.1.b in its entirety under Item 8: Irrigation Pump Station, Valve Vault, and Irrigation Piping:
    - 1) "Includes ICSC services at the cost of \$13,100.00 per Appendix E - Instrumentation and Controls Subcontractor (ICSC) Services."
  - d. ADD the following language as new paragraph 1.02.J.1.b in its entirety under Item A: Bid Alternate A:
    - 1) "Includes ICSC services at the cost of \$43,100.00 per Appendix E - Instrumentation and Controls Subcontractor (ICSC) Services."
5. SECTION 05\_12\_00 - STRUCTURAL STEEL FRAMING:
  - a. DELETE paragraph 2.07.B.1 in its entirety.
6. SECTION 06\_80\_17 - FIBERGLASS REINFORCED PLASTIC FABRICATIONS:
  - a. REPLACE section in its entirety with the attached section.



7. SECTION 26\_05\_03 - UTILITY COORDINATION:
  - a. DELETE paragraph 2.02.A.1.c in its entirety.
8. SECTION 26\_41\_01 - LIGHTNING PROTECTION:
  - a. ADD attached section in its entirety.
9. SECTION 31\_00\_00 - EARTHWORK:
  - a. REPLACE paragraph 3.04.A.1.c in its entirety:
    - 1) "Cost of confirmation tests: Paid for by the Owner. Contractor to coordinate testing with Owner's testing agency."
  - b. DELETE paragraph 3.04.A.1.d in its entirety.
10. SECTION 40\_05\_00.01 - COMMON WORK RESULTS FOR GENERAL PIPING:
  - a. DELETE paragraph 2.03.D.2.d in its entirety.
  - b. DELETE paragraph 2.03.D.2.e in its entirety.
  - c. DELETE paragraph 2.03.D.2.f in its entirety.
11. SECTION 40\_05\_06.10 - STRAINERS:
  - a. ADD the following to the end of paragraph 2.01.C.1.a:
    - 1) "CPVC shall be used for chemical services that require CPVC."
  - b. ADD the following to the end of paragraph 2.01.C.1.c:
    - 1) "CPVC shall be used for chemical services that require CPVC."
12. SECTION 40\_05\_63 - BALL VALVES:
  - a. DELETE paragraph 2.05.C.1.b in its entirety.
13. SECTION 42\_12\_20 - MODULAR BELT CONVEYING SYSTEM:
  - a. ADD the following new paragraph as 2.10.B:
    - 1) "Belt Spray Wash System:
      - a) Located on the underneath side of the conveyor belt near the tension station, there will be a minimum 3/4-inch-diameter pipe (304 stainless steel) with minimum four [4x] spray nozzles spraying or an array of hole orifices to clean the belting.
      - b) A bronze body manually operated ball valve will be used for pressure and flow control and it must be accessible by plant personnel.
      - c) A bronze or brass body 120VAC solenoid valve is used for ON/OFF operation through operation by the control panel.
      - d) Contractor is responsible for a minimum 3/4-inch water line, all pipe up to the wash manifold, and pipe reducers/nipples to join the ball valve, and solenoid valve to the system."
  - b. ADD the following new paragraph as 2.10.C:
    - 1) "Drip Pan Spray Wash System:
      - a) Located underneath the conveyor on the inclined section of the conveyor, there shall be one (1x) drip pan spray wash systems. The spray wash

system(s) will be a minimum 3/4-inch-diameter pipe (304 stainless steel) with multiple spray orifices spraying down the drip pans.

- b) Each system will have a bronze body manually operated ball valve will be used for pressure and flow control and it must be accessible by plant personnel.
- c) A bronze or brass body 120VAC solenoid valve is used for ON/OFF operation through operation by the control panel.
- d) Contractor is responsible for a minimum 3/4-inch water line (maximum 80 pounds per square inch), all pipe up to the wash manifold, and pipe reducers/nipples to join the ball valve, and solenoid valve to the system."

14. SECTION 43\_23\_57.10 - PROGRESSING CAVITY PUMPS:

- a. ADD the following new paragraph as 2.01.A.3:

- 1) "Seepex: Model Series BN."

15. SECTION 43\_33\_10.02 - LIQUID CHEMICAL PERISTALTIC TUBE METERING PUMPS:

- a. REPLACE the minimum discharge pressure (pounds per square inch) values for all pumps in the table in paragraph 3.04.A from "45" to "30."

16. SECTION 43\_41\_43.30 - POLYETHYLENE BRINE TANK:

- a. DELETE the following phrase from paragraph 2.01.A:
  - 1) "and wind load"
- b. DELETE the following phrase from paragraph 2.03.F.1:
  - 1) "wind and"
- c. DELETE the following phrase from paragraph 2.03.G:
  - 1) "and wind load"
- d. DELETE paragraph 2.03.G.2 in its entirety.
- e. DELETE the following phrase from paragraph 2.03.G.4.a:
  - 1) "wind and"
- f. REPLACE the Type of stainless steel from "304" with "316" in paragraph 2.04.F.1.a.
- g. DELETE paragraph 2.05.D in its entirety.
- h. DELETE 2.05.E.d in its entirety.
- i. REPLACE the phrase "electrically actuated butterfly valve" with "solenoid valve" in paragraph 2.06.A.1.a.
- j. REPLACE paragraph 2.06.C in its entirety with the following text:
  - 1) "Gravel bed:
    - a) Quartz gravel bed including:
      - (1) Seven inches of 1/2-inch by 1/4-inch AWWA B100 compliant and NSF 61 certified washed quartz gravel at the base.
      - (2) Five inches of 1/2-inch by 1/4-inch AWWA B100 compliant and NSF 61 certified washed quartz gravel as cover."

- k. REPLACE the phrase “provided by the tank customer” with “as recommended by the tank manufacturer” in paragraph 3.02.C.
  - l. REPLACE the phrase “4 percent design movement” with “2 percent design movement” in paragraph 3.02.C.2.
  - m. REPLACE Maximum diameter (feet) “5’-6”” with “6’-1”” in TANK SCHEDULE.
  - n. REPLACE Maximum height “9’-0”” with “10’-0”” in TANK SCHEDULE.
  - o. DELETE Drain Nozzle Size (inches) in TANK SCHEDULE in its entirety.
17. SECTION 46\_41\_34.01 - VERTICAL SHAFT FLOCCULATOR UNITS:
- a. REPLACE the Motor Speed Control for the Solids Holding Tank Mixers (MIX-60-131, MIX-60-141) in the table in paragraph 2.03.B from “VFD” to “Fixed”.
  - b. REPLACE the Minimum Speed Turndown for the Solids Holding Tank Mixers (MIX-60-131, MIX-60-141) in the table in paragraph 2.03.B from “4:1” to “NA”.
18. APPENDIX E - INSTRUMENTATION AND CONTROLS SUBCONTRACTOR (ICSC) SERVICES:
- a. ADD the attached SKM Engineering Scope of Services document Titled “RE: Signal Hill WTP Optimization - Instrumentation and Controls Subcontractor (ICSC) Services” document in its entirety as a new Appendix E of the contract documents.

## DRAWINGS

Note to Bidders on addenda drawings: The addenda drawings make use of color coding to show revisions made by addendum. The following color codes are used on most addenda drawings, for clarity:

Red is used to highlight additions, corrections, or changes that are incorporated into the drawing.

Green is used to indicate items that shall be removed or deleted from the drawings.

Blue is used for comments, notes, clarifications, or instructions that may not be physically added to the drawing itself.

The following drawings are modified as indicated below.

- 1. DRAWING 00G11:
  - a. REPLACE the MIN WSE in the Equalization Basin from “7031.50” with “7032.50.”
- 2. DRAWING 00G12:
  - a. REPLACE drawing in its entirety with the attached drawing.
- 3. DRAWING 00G13:
  - a. REPLACE drawing in its entirety with the attached drawing.
- 4. DRAWING 10DC01:
  - a. REPLACE drawing in its entirety with the attached drawing.
- 5. DRAWING 40DS02:
  - a. REPLACE drawing in its entirety with the attached drawing.

6. DRAWING 00DE01:
  - a. DELETE Keynote 2 in its entirety.
7. DRAWING 00DE04:
  - a. REPLACE drawing in its entirety with the attached drawing.
8. DRAWING 00GC04:
  - a. REPLACE drawing in its entirety with the attached drawing.
9. DRAWING 01C01:
  - a. REPLACE drawing in its entirety with the attached drawing.
10. DRAWING 01C02:
  - a. REPLACE drawing in its entirety with the attached drawing.
11. DRAWING 01C03:
  - a. ADD the following as General Note 6:
    - 1) "Excavation sections shown are conceptual with structure elevations and estimated extents of excavation. Contractor to design and submit an excavation plan per spec section 31\_50\_00."
12. DRAWING 01C04:
  - a. ADD the following as General Note 7:
    - 1) "Excavation sections shown are conceptual with structure elevations and estimated extents of excavation. Contractor to design and submit an excavation plan per spec section 31\_50\_00."
13. DRAWING 04C02:
  - a. DELETE PMP-15-113 (IRRIGATION PUMP 3) from the bid.
    - 1) This will be a future pump. Contractor shall still provide piping within and between the Irrigation Manhole and Irrigation Valve Vault to accommodate the future third pump.
  - b. Section D Section:
    - 1) The "6" IRR to IRR VALVE VAULT" pointing to the pipe between the manhole and the vault is to be changed to:
      - a) "8" IRR to IRR VALVE VAULT".
  - c. Section F Plan:
    - 1) The callout "8" AIR RELEASE VALVE" is to be changed to:
      - a) "2" AIR RELEASE VALVE ON 8" IRR PIPE PER MRWSSD STANDARD DETAIL 8. ARI BRAND 2" COMBINATION AIR RELEASE VALVE MODEL D-040 250 PSI WITH #14 SS SCREEN. ARV, BALL VALVE, AND PIPE TO BE CONNECTED TO 2" SS DOUBLE STRAP SERVICE SADDLE ON 8" IRR."
        - (1) The air release valve will be connected to a 2" saddle as noted on a grooved end x flange spool piece.
    - 2) The callout "8" FLxMJ CHECK VALVE" is to be changed to:
      - a) "8" FLxFL CHECK VALVE, TYPE CKV00".

- 3) The callout "8" FLxMJ MANUAL GATE" is to be changed to:
    - a) "8" FLxFL MANUAL GATE VALVE, TYPE GV00".
  - 4) Change the pipe support callout from "MP035 PIPE SUPPORTS" to "MP034 PIPE SUPPORTS".
  - 5) Add a grooved coupling fitting in the ductile iron pipe between the wall and the air release spool. This is for all 3 pump discharges.
  - 6) Change the callout "X0DN MODEL MAGNETIC FLOW METER" to "MAGNETIC FLOW METER".
  - 7) Add a grooved coupling fitting in the ductile iron pipe between the 8" FL x FL isolation valve and the 0xDN model flow meter. Valve is to be bolted to a flange by grooved end fitting and magnetic flow meter to be bolted to a flange by grooved end fitting.
  - 8) Add a pipe support callout "MP034 PIPE SUPPORT" at the isolation valve discharge pipe and at the 2 spool pieces between the 90° elbow and the cross fittings.
14. DRAWING 05C01:
- a. REPLACE drawing in its entirety with the attached drawing.
15. DRAWING 05C02:
- a. REPLACE drawing in its entirety with the attached drawing.
16. DRAWING 00A01:
- a. REPLACE the name of Room 103 from "Sample Lab" to "Sample Room" in all instances it is mentioned.
  - b. REPLACE "GALV" with "PAINT" for the Ceiling Finish for Room 101 (New GAC).
    - 1) All structural steel should be painted in the New GAC Building per Section 09\_96\_01.
17. DRAWING 00A02:
- a. REPLACE the name of Room 103 from "Sample Lab" to "Sample Room" in all instances it is mentioned.
18. DRAWING 00A04:
- a. REPLACE the name of Room 103 from "Sample Lab" to "Sample Room" in all instances it is mentioned.
19. DRAWING 70A01:
- a. REPLACE "GALV" with "PAINT" for the Ceiling Finish for all rooms in the Chemical Building.
    - 1) All structural steel should be painted in the Chemical Building per Section 09\_96\_01.
20. DRAWING 70A02:
- a. REPLACE Key Note 9 with:
    - 1) "FRP access ladder, reference structural drawings."

21. DRAWING 70A03:
  - a. REPLACE Key Note 3 with:
    - 1) "FRP access ladder, reference structural drawings."
22. DRAWING 70A05:
  - a. REPLACE drawing in its entirety with the attached drawing.
23. DRAWING 20S01:
  - a. REPLACE drawing in its entirety with the attached drawing.
24. DRAWING 20S04:
  - a. REPLACE drawing in its entirety with the attached drawing.
25. DRAWING 40S04:
  - a. REPLACE drawing in its entirety with the attached drawing.
26. DRAWING 70S02:
  - a. ADD General Note 3:
    - 1) "Access ladders to chemical containment areas and all grating and rebates in building should all be FRP per 06\_80\_17. FRP Rebates per typical detail SU605. Mezzanine access ladder and stairs should be aluminum per SR310 and SR226."
27. DRAWING 20M01:
  - a. REPLACE drawing in its entirety with the attached drawing.
28. DRAWING 20M02:
  - a. ADD valve specification ID "4-in BFV00" next to label for Key Tag 1 HV-20-106.
  - b. ADD valve specification ID "4-in BFV00" next to label for Key Tag 2 HV-20-101.
29. DRAWING 20M03:
  - a. REPLACE drawing in its entirety with the attached drawing.
30. DRAWING 20M04:
  - a. REPLACE drawing in its entirety with the attached drawing.
31. DRAWING 30M01:
  - a. REPLACE drawing in its entirety with the attached drawing.
32. DRAWING 30M02:
  - a. REPLACE drawing in its entirety with the attached drawing.
33. DRAWING 30M06:
  - a. REPLACE drawing in its entirety with the attached drawing.
34. DRAWING 40M01:
  - a. REPLACE "BF05" with "BFV00" for the valve type designations next to key tags.

35. DRAWING 40M01A:
- a. REPLACE "BF05" with "BFV00" for the valve type designations next to key tags.
  - b. REPLACE the referenced wall penetration detail "MP545" with "MP544."
36. DRAWING 40M02:
- a. REPLACE drawing in its entirety with the attached drawing.
37. DRAWING 40M03:
- a. REPLACE "BF05" with "BFV00" for the valve type designations next to key tags.
  - b. REPLACE the ID "CV-60-168" with "HV-40-116" in Key Tag 19.
38. DRAWING 40M03A:
- a. REPLACE drawing in its entirety with the attached drawing.
39. DRAWING 40M04:
- a. REPLACE "BF05" with "BFV00" for the valve type designations next to key tags.
40. DRAWING 60M01:
- a. ADD valve specification ID "4-in PV00" next to label for Key Tag 4 HV-60-210.
  - b. ADD valve specification ID "4-in PV00" next to label for Key Tag 13 HV-60-132.
  - c. ADD valve specification ID "4-in PV00" next to label for Key Tag 14 HV-60-142.
41. DRAWING 60M01A:
- a. ADD valve specification ID "4-in PV00" next to label for Key Tag 13 HV-60-132.
  - b. ADD valve specification ID "4-in PV00" next to label for Key Tag 14 HV-60-142.
42. DRAWING 60M02:
- a. ADD valve specification ID "4-in BFV00" next to label for Key Tag 2 HV-60-131.
  - b. ADD valve specification ID "4-in BFV00" next to label for Key Tag 3 HV-60-141.
  - c. ADD valve specification ID "4-in BFV00" next to label for Key Tag 4 HV-60-151.
  - d. ADD valve specification ID "4-in BFV00" next to label for Key Tag 5 HV-60-152.
  - e. ADD valve specification ID "4-in CKV00" next to label for Key Tag 6 CV-60-151.
43. DRAWING 60M02A:
- a. ADD valve specification ID "4-in BFV00" next to label for Key Tag 2 HV-60-131.
  - b. ADD valve specification ID "4-in BFV00" next to label for Key Tag 3 HV-60-141.
  - c. ADD valve specification ID "4-in BFV00" next to label for Key Tag 4 HV-60-151.
  - d. ADD valve specification ID "4-in BFV00" next to label for Key Tag 5 HV-60-152.
  - e. ADD valve specification ID "4-in CKV00" next to label for Key Tag 6 CV-60-151.
44. DRAWING 01E01:
- a. REPLACE drawing in its entirety with the attached drawing.
45. DRAWING 02E01:
- a. REPLACE drawing in its entirety with the attached drawing.

- 46. DRAWING 02E02:
  - a. REPLACE drawing in its entirety with the attached drawing.
- 47. DRAWING 03E01:
  - a. REPLACE drawing in its entirety with the attached drawing.
- 48. DRAWING 03E02:
  - a. REPLACE drawing in its entirety with the attached drawing.
- 49. DRAWING 04E04:
  - a. REPLACE drawing in its entirety with the attached drawing.
- 50. DRAWING 05E01:
  - a. REPLACE drawing in its entirety with the attached drawing.
- 51. DRAWING 05E02:
  - a. REPLACE drawing in its entirety with the attached drawing.
- 52. DRAWING 05E03:
  - a. REPLACE drawing in its entirety with the attached drawing.
- 53. DRAWING 05E04:
  - a. REPLACE drawing in its entirety with the attached drawing.
- 54. DRAWING 05E05:
  - a. REPLACE drawing in its entirety with the attached drawing.
- 55. DRAWING 05E05A:
  - a. ADD attached drawing in its entirety.
- 56. DRAWING 05E06:
  - a. REPLACE drawing in its entirety with the attached drawing.
- 57. DRAWING 05E07:
  - a. REPLACE drawing in its entirety with the attached drawing.
- 58. DRAWING 05E08:
  - a. REPLACE drawing in its entirety with the attached drawing.
- 59. DRAWING 05E09:
  - a. REPLACE drawing in its entirety with the attached drawing.
- 60. DRAWING 05E10:
  - a. REPLACE drawing in its entirety with the attached drawing.
- 61. DRAWING 05E11:
  - a. REPLACE drawing in its entirety with the attached drawing.
- 62. DRAWING 30E01:
  - a. REPLACE drawing in its entirety with the attached drawing.



63. DRAWING 30E02:

- a. REPLACE drawing in its entirety with the attached drawing.

64. DRAWING 40E01:

- a. REPLACE drawing in its entirety with the attached drawing.

65. DRAWING 40E02:

- a. REPLACE drawing in its entirety with the attached drawing.

66. DRAWING 70E01:

- a. REPLACE drawing in its entirety with the attached drawing.

67. DRAWING 70E02:

- a. REPLACE drawing in its entirety with the attached drawing.

68. DRAWING 10N02:

- a. DELETE PMP-10-213, CV-10-213, and HV-10-213. These have been removed from the project and will be added in the future.

69. DRAWING 15N01:

- a. DELETE PMP-15-113. This has been removed from the project and will be added in the future.

70. DRAWING 60N06:

- a. REPLACE drawing in its entirety with the attached drawing.

71. DRAWING 00TM05:

- a. ADD the attached Typical Detail MP510 to this drawing.

72. DRAWING 00TS20:

- a. ADD the attached Typical Detail SU605 to this drawing.

## **OTHER SUPPORTING DOCUMENTATION**

1. See attached "Bidder Question Log" for bidder questions and Engineer responses.

Replace Section

## SECTION 06\_80\_17<sup>AD2</sup>

### FIBERGLASS REINFORCED PLASTIC FABRICATIONS

#### PART 1 GENERAL

##### 1.01 SUMMARY

- A. Section includes:
  - 1. Fiberglass reinforced plastic fabrications.

##### 1.02 REFERENCES

- A. American Water Works Association (AWWA):
  - 1. F102 - Matched-Die-Molded, Fiberglass-Reinforced Plastic Weir Plates, Scum Baffles, and Mounting Brackets.
- B. ASTM International (ASTM):
  - 1. D635 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.
  - 2. D638 - Standard Test Method for Tensile Properties of Plastics.
  - 3. D790 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
  - 4. D2583 - Standard Test Method for Indentation of Hardness of Rigid Plastics by Means of a Barcol Impressor.
  - 5. E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- C. NSF International (NSF):
  - 1. 61 - Drinking Water System Components - Health Effects.
- D. United States Department of Agriculture (USDA).
- E. United States Department of the Interior:
  - 1. Bureau of Reclamation (USBR):
    - a. ISO 9826 - Water Measurement Manual, Measurement of Liquid Flow in Open Channel.

##### 1.03 DELEGATED DESIGN

- A. As specified in Section 01\_35\_73 - Delegated Design Procedures.
- B. Drawings and calculations for trough, stress, deflection, supports, and anchorage.

## 1.04 SUBMITTALS

- A. Furnish Submittals as specified in Section 01\_33\_00 - Submittal Procedures.
- B. Product Submittals:
  - 1. As specified in Section 01\_60\_00 - Product Requirements.
  - 2. Product data.
  - 3. Shop Drawings.
    - a. General arrangement and fabrication drawings, calculations, and elements of the design for grating and stairs.
- C. Delegated Design Submittals:
  - 1. Shop Drawings:
    - a. Construction and erection details showing dimensions, attachments, support system details, and anchor bolt locations.
  - 2. Calculations:
    - a. Design calculations for troughs, support systems, and anchors in accordance with the following loadings, and in accordance with specified stress and deflection limitations:
      - 1) Seismic and wind loads as specified in Section 01\_81\_50 - Design Criteria.
        - a) Consider loading and torsional effects of wind induced waves on the surface of the water.
        - b) Consider sloshing effects induced from seismic forces.
      - 2) Gravity load:
        - a) Downward vertical loads shall include the weight of the trough and appurtenant attachments, such as weir plates and the spreader bars, together with the weight of water to fill and submerge the trough to the water surface elevation indicated on the Drawings.
        - b) Any additional loads, such as piping, shall also be considered.
      - 3) Buoyant load:
        - a) Shall act vertically upward, its magnitude equal to the weight of displaced water (trough weight neglected).
        - b) Line of action passes through the centroid of the submerged cross-sectional area.
      - 4) Lateral load:
        - a) Loads acting against the trough side walls, specifically those induced by differential water levels on either side of the trough walls.
        - b) Maximum possible differential, existing when the trough is empty and the tank is full, or when the trough is full and the tank is empty, shall be used when calculating deflection fiber stress.
        - c) Include sloshing load due to seismic forces on both the trough and the support system.
      - 5) Thermal stresses:
        - a) Accommodate thermally induced stresses resulting from differences in coefficients of thermal expansion (and contraction) between the trough and tank/support materials.
        - b) Accommodate no less than 1/8-inch trough movement per 20 feet length of the trough over temperature range as specified,

without exceeding the deflection or strain limitation in accordance with referenced standards, and as specified.

- b. Calculations for trough stress and deflection under loadings in accordance with AWWA F102, and as specified.

D. Installation instructions:

- 1. Detail the complete installation of the equipment, including rigging, moving, and setting into place.
- 2. Provide manufacturer's installation instructions.

## **1.05 DELIVERY, STORAGE, AND HANDLING**

- A. As specified in Section 01\_60\_00 - Product Requirements and the manufacturer's instructions.

## **PART 2 PRODUCTS**

### **2.01 TROUGHS**

A. General:

- 1. Products shall hold current NSF 61 certification for use in contact with potable water.

B. Manufacturers: One of the following or equal:

- 1. F.B. Leopold.
- 2. Warminster Fiberglass Co.

C. Materials:

- 1. Fabricate trough of premium grade fiberglass reinforced polyester resin, with fiberglass constituting a nominal 30 percent by weight.
- 2. Glass reinforcement shall be random chopped-strand type with a minimum strand length of 1 inch, and adequate contact molding pressure to provide complete wet-out of the glass fibers.
- 3. Minimum physical properties:
  - a. Tensile strength: 14,000 pounds per square inch.
  - b. Flexural strength: 25,000 pounds per square inch.
  - c. Flexural modulus: 1.0 times  $10^6$  pounds per square inch.
  - d. Trough resin and accessories shall be suitable for the specific operating environment.
- 4. Trough supports and hardware shall be Type 316 stainless steel, including bolts, nuts, washers, straps, etc.
- 5. Materials used in the construction of the troughs and accessories shall be approved for use in potable water.

D. Design:

- 1. Troughs shall be certified for use in potable water in accordance with NSF 61.
- 2. Trough shall be laminated of fiberglass reinforced polyester resin to a minimum thickness of 1/4 inch.
- 3. Inside surface of each trough shall have a smooth gel coat finish. Color as selected by the Engineer.

4. Outside surface of each trough shall be resin sealed with no exposed glass fiber.
5. Color shall be molded in and an ultraviolet inhibitor shall be used.
6. Troughs shall have flat bottoms and vertical sides.
7. Top edges of trough shall be straight with no more than 1/8-inch deviation from a true plane.
8. Longitudinal stiffening ribs shall be integrally molded on the outside of the troughs to ensure rigidity.
9. Spacer rods:
  - a. Sufficient plastic rods shall be included to maintain a uniform width over the length of each trough.
  - b. Spaced to prevent buckling and to provide maximum resistance to water loading on the sidewall of the trough.
10. Support system shall allow 1-inch minimum adjustment of the trough, horizontally and vertically, and shall allow no greater than the unsupported span divided by 1,000 ( $L/1,000$ ) upward deflection while the trough is empty and water outside the trough is to the weir edge.
  - a. Maximum vertical deflection shall not exceed the unsupported span divided by 1,000 ( $L/1,000$ ) downward while the trough is full and water outside the trough is below the trough bottom.
11. Thickness of laminate at all supports such as saddles shall be at least 150 percent of the nominal thickness of the trough.
12. Fiberglass adjustable weir plates shall be factory assembled to the troughs as indicated on the Drawings.
13. Design troughs, supports and anchors to span between supports, within stress and deflection limitation, under the following loads:
  - a. Gravity load: Downward vertical loads shall include the weight of the trough and appurtenant attachments, such as weir plates and spreader bars, together with the weight of the water to fill the trough. Any additional loads, such as piping shall also be considered.
  - b. Buoyant load: Load shall act vertically upward, its magnitude equal to the weight of displaced water (trough weight neglected). Line of action passes through the centroid of the submerged cross-sectional area.
  - c. Lateral load: Loads acting against the trough side walls, specifically those induced by differential water levels on either side of the trough walls.
    - 1) Maximum possible differential, existing when the trough is empty and the tank is full, or when the trough is full and the tank is empty, shall be used when calculating deflection, fiber stress, etc.
    - 2) Include sloshing load due to seismic forces on both the trough and the support system.
  - d. Thermal stresses: Troughs shall be designed to accommodate temperature induced stresses resulting from different coefficients of thermal expansion and contraction between the trough and tank/support materials.
  - e. Torsional stability: Trough system shall be designed to resist torsional oscillations induced by the flow of water over trough edges. Any or all of the following trough stabilization techniques shall be considered:
    - 1) Trough to trough stabilization by trough-to-support truss bracing.
    - 2) Torsional stiffness.
    - 3) Support spacing and rigidity.
    - 4) Internal baffles and or flow straighteners.

- f. Loads specified in Section 01\_81\_50 - Design Criteria, and applicable for the locations of the troughs in the Work:
    - 1) Seismic load.
    - 2) Wind load.
- 14. Deflection under load:
  - a. Maximum vertical deflection under full buoyant load or gravity load shall be less than or equal to  $L/1,000$ , where L is defined as the unsupported trough length in inches. Under no circumstance shall the maximum vertical deflection, measured at mid-point between trough supports, exceed 3/16 inch.
  - b. Maximum trough side wall horizontal deflection under full lateral load shall be less than or equal to  $D/100$ , where D is defined as the trough depth in inches. Under no circumstances shall the maximum side wall deflection exceed 3/16 inch.
  - c. Trough bottom deflection (oil canning) under full buoyant load or gravity load shall be less than or equal to  $W/100$ , where W is defined as the trough width, in inches. Under no circumstances shall the maximum bottom deflection exceed 3/16 inch.
- 15. Fiber stress limitations: Supplemental to the deflection criteria, the troughs shall also be designed such that the maximum wall stress under the most severe loading conditions is less than or equal to 1,500 pounds per square inch.
  - a. This stress criterion is equivalent to 7:1 safety factor (approximate) as applied to the tensile and flexural properties of contact molded troughs and launders.
- 16. Thermal expansion and contraction: Troughs shall be designed and detailed to accommodate a thermally induced expansion and contraction of 1/8 inch per 20-foot length of trough over temperature range of 10 to 100 degrees Fahrenheit, without exceeding the deflection or strain limitations specified in the proceeding paragraphs.
- 17. Trough wall supports shall not conflict with piping as indicated on the Drawings.
- 18. Trough manufacturer shall be responsible for designing the troughs, supporting members, and accessories required for a complete installation.

## **2.02 GRATING AND STAIR TREADS**

- A. General:
  - 1. FRP Grating and Treads in the Chemical containment areas and exterior Chemical filling station.
- B. Manufacturers: One of the following or equal:
  - 1. Fibergate Composite Structures, Safe-T-Span.
  - 2. Strongwell, Duradek.
- C. Materials:
  - 1. Core: Unidirectionally aligned glass fibers.
  - 2. Mat: Submit standard corrosion liner.
  - 3. Veil: Submit standard corrosion liner.
  - 4. Ultraviolet stabilizer: Added to the exterior surfaces in the type and amount recommended by the resin manufacturer.

5. Resin: Fire-retardant, premium grade vinyl ester, antimony trioxide or pentoxide added to meet Class I flame spread rating in accordance with ASTM E84, and the self-extinguishing requirements of ASTM D635.
  6. Manufacturers: One of the following or equal:
    - a. Ashland Hetron 992.
    - b. Dow Derakane 530.
    - c. Interplastic VE 8400.
    - d. Reichhold Dion VER 9300FR.
  7. Color: Gray.
  8. Anti-slip coating: Permanently bonded grit of selected color.
- D. Design criteria and chemical exposure:
1. Deflection and concentrated load: Maximum 0.15 inch at span of 48 inches under concentrated load of 250 pounds.
  2. Deflection and uniform distributed load: Capable of carrying uniform distributed load of 100 pounds per square foot on simple span of 60 inches without deflecting more than 0.25 inches.
  3. Suitability: Use stairs and grating suitable for use in environments containing chlorine and sulfuric acid solutions at the temperatures and concentrations specified for the application.
- E. Components:
1. Bearing bars: I-bars, depth as indicated on the Drawings, I-bars spaced at 1-1/2 inch on center.
  2. Cross bars: 3/8-inch diameter spaced at 6 inches on center.
  3. Hold downs, connectors, and accessories: As recommended by the grating manufacturer.
- F. Fabrication:
1. Produce grating bearing and cross bars by pultrusion process. Do not use hand lay-up construction methods.
  2. Coat ends of grating with resin.
  3. Fabricate single sections for each span. Do not clamp 2 or more grating sections together within spans.
  4. Type 316 stainless steel plates and angles at openings:
    - a. Install 5/8-inch-thick plate or angle where required to fill openings at changes in elevation and at openings between equipment and grating.
    - b. Install angle stops at ends of grating to prevent grating from sliding.
  5. Maximum 1/8-inch clearance allowed between ends of grating and inside face of vertical leg of support angles.
- G. Accessories:
1. As required for anchorage.
- H. Cutouts:
1. Provide where required for equipment access or penetrations, including valve operators, stems, and gate frames.
  2. Seal cut edges with resin.

## **2.03 LADDERS**

- A. General:
  - 1. Type: Safety type in accordance with local, state, and OSHA standards as minimum. Furnish guards for ladder wells.
  - 2. Size: 18 inches wide between side rails of length, size, shape, detail, and location indicated on the Drawings.
- B. Design:
  - 1. Rungs:
    - a. 1-inch minimum solid square bar with 1/8-inch grooves in top and deeply serrated on all sides.
    - b. Capable of withstanding 1,000-pound load without failure.
  - 2. Side rails: Minimum 4-inch by 1/2-inch flat bars.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that conditions are satisfactory for installation of products as specified in Section 01\_60\_00 - Product Requirements.

### **3.02 ERECTION AND INSTALLATION**

- A. Install products where indicated on the Drawings in accordance with the manufacturer's instructions.

### **3.03 WEIRS**

- A. Carefully install weirs, aligning and leveling to the elevations indicated on the Drawings.

END OF SECTION

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<sup>AD2</sup> Addendum No. 2



**New Section**

**SECTION 26\_41\_01<sup>AD2</sup>**

**LIGHTNING PROTECTION**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section includes:
  - 1. Design and installation of a complete lightning protection system.
  - 2. Materials and components for the lightning protection system.

**1.02 REFERENCES**

- A. Lightning Protection Institute (LPI).
  - 1. 175 - Standard for the Design - Installation - Inspection of Lightning Protection Systems.
  - 2. 177 - Inspection Guide for Certified Systems.
- B. National Fire Protection Association (NFPA):
  - 1. 70 - National Electrical Code (NEC).
  - 2. 780 - Standard for the Installation of Lightning Protection Systems.
- C. Underwriters Laboratories, Inc. (UL):
  - 1. 96 - Standard for Lightning Protection Components.
  - 2. 96A - Standard for Installation Requirements for Lightning Protection Systems.

**1.03 DELEGATED DESIGN (NOT USED)**

**1.04 SUBMITTALS**

- A. Furnish Submittals as specified in Section 01\_33\_00 - Submittal Procedures and Section 01\_60\_00 - Product Requirements.
- B. Product data:
  - 1. Provide samples and pertinent catalog data for:
    - a. Air terminals.
    - b. Conductors.
    - c. Connectors.
    - d. Accessories.
    - e. Include dimensions and materials of each component and include indication of listing in accordance with UL 96.

- C. Shop Drawings:
  - 1. Including:
    - a. Layout of air terminals with the respective configuration of the zone of protection.
    - b. Grounding electrodes and bonding connections to structure and other metal objects.
    - c. Type, size and locations for:
      - 1) Terminal.
      - 2) Electrode.
      - 3) Conductor.
    - d. Conductor routing details.
    - e. Connection details.
    - f. Termination details.
    - g. Applicable air terminal and other calculations.
  - 2. Details showing installation of air terminals, conductors, and connectors.
- D. Installation instructions:
  - 1. Detail the complete installation of the equipment, including rigging, moving, and setting into place.
  - 2. Provide manufacturer's installation instructions.
- E. Quality Control Submittals:
  - 1. Manufacturer's representative qualifications.
  - 2. Written confirmation of having obtained UL Master Label or LPI certification for each lightning protection system.
  - 3. Photocopy of UL or LPI Installers' Certificate(s) for installation of lightning protection systems.
- F. Record Documents:
  - 1. Accurately record actual locations of air terminals, grounding electrodes, bonding connections, and routing of system conductors.

## **1.05 QUALITY ASSURANCE**

- A. In accordance with UL or LPI and NFPA standards for lightning protection systems:
  - 1. Components shall be listed in accordance with UL 96.
- B. Manufacturer's qualifications:
  - 1. Company specializing in lightning protection equipment with minimum 5 years of experience:
    - a. Listed in the Lightning Conductor, Air Terminals and Fittings section of the UL Electrical Construction Materials Directory for at least 5 years previous to this Contract's bid opening date.
- C. Installer's qualifications:
  - 1. Member of the UL quality control program listed in the Lightning Protection Installation section of the UL Electrical Construction Materials Directory, or LPI-certified installer for installation of lightning protection systems for at least 5 years previous to this Contract's bid opening date.
    - a. Lightning protection system shall meet the applicable requirements of NFPA 780 and UL 96 and 96A, or LPI 175 and 177.

- D. Upon completion of installation, the lightning protection contractor to have the building lightning system physically inspected by UL or in accordance with LPI requirements:
  - 1. Furnish a UL Master Label or LPI Installer Certificate for the building:
    - a. Application for the UL Master Label without a physical inspection by UL is unacceptable.

#### **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. As specified in Section 01\_60\_00 - Product Requirements and the manufacturer's instructions.
- B. Do not store or install aluminum lightning protection components in contact with concrete.

#### **1.07 PROJECT OR SITE CONDITIONS (NOT USED)**

#### **1.08 ADMINISTRATIVE REQUIREMENTS**

- A. Sequencing:
  - 1. Pre-installation conference:
    - a. Convene a pre-installation conference 1 week before commencing the Work of this Section, as specified in Section 01\_31\_19 - Project Meetings.
  - 2. Coordinate Work with other trades to ensure neat, correct, and unobtrusive installation.
  - 3. Coordinate the Work of this Section with roofing and exterior and interior finish installations.

#### **1.09 WARRANTY**

- A. As specified in Section 01\_78\_36 - Warranties and Bonds.

### **PART 2 PRODUCTS**

#### **2.01 GENERAL (NOT USED)**

#### **2.02 DESIGN AND PERFORMANCE CRITERIA**

- A. Provide the services of a lightning protection contractor to design, furnish, and supervise the installation of a complete lightning protection system, connected to the facility grounding system at the following structures:
  - 1. Chemical Building
  - 2. GAC Expansion Structure (Bid Alternate A)
- B. Lightning protection system: NFPA 780; Class I UL 96A master labeled or LPI-certified system(s) protecting the entire structure, including the metal roof consisting of:
  - 1. Air terminals on roof(s).
  - 2. Bonding of structure and other metal objects.
  - 3. Grounding electrodes.
  - 4. Interconnecting conductors.

- C. Connect the lightning protection system to the facility grounding electrode:
  - 1. Provide common ground connections as necessary to the electric and telephone service conductors.
- D. Installing contractor is responsible for all costs associated with UL or LPI application/inspection of the lightning protection system, including any costs associated with reinspection necessary to obtain the UL 96A Master Label or LPI 177 Certification.

## **2.03 MANUFACTURERS**

- A. One of the following or equal:
  - 1. Erico.
  - 2. Harger Lightning and Grounding.
  - 3. Thompson Lightning Protection, Inc.
  - 4. VFC, Inc.

## **2.04 MATERIALS**

- A. Air terminals:
  - 1. Aluminum:
    - a. Compatible with the galvanized or aluminum-zinc coated steel roofing materials.
  - 2. Sized in accordance with UL or LPI and NFPA requirements.
  - 3. On flat or walkable roofs, provide air terminals with:
    - a. Mushroom type blunt tip incapable of impalement if fallen upon.
    - b. Spring mounted and capable of being pushed flush to the roof.
  - 4. Air terminal bases:
    - a. Cast aluminum with bolt pressure cable connections securely mounted with stainless steel screws and bolts.
- B. Ground rods and below grade connectors:
  - 1. As specified in Section 26\_05\_26 - Grounding and Bonding.
- C. Ground plate: Copper.
- D. Conductors:
  - 1. Perimeters:
  - 2. Aluminum.
    - 1) Compatible with the galvanized or aluminum-zinc coated steel roofing materials.
  - 3. Down conductors:
    - a. Aluminum, transitioning to copper with listed bimetallic connectors not less than 18 inches above grade. Do not install aluminum in contact with earth, concrete, or masonry.
  - 4. Sized in accordance with UL or LPI and NFPA requirements.
  - 5. UL listed for the application.

- E. Cable fasteners:
  - 1. Electrolytically compatible with conductors and mounting surface:
    - a. Spaced in accordance with LPI or NFPA requirements.
- F. Above grade connectors:
  - 1. Make connections between dissimilar metals with approved bimetallic connectors.
  - 2. Installed by trained personnel.
  - 3. UL listed for the application.
- G. Miscellaneous materials:
  - 1. Aluminum of type and size recommended by the manufacturer of the lightning protection system.
  - 2. Stainless steel bolts, screws, and other threaded fasteners.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. It is the responsibility of the lightning protection subcontractor to review the electrical system design and provide any and all additional equipment and materials needed in order to construct a master labeled UL- or LPI-certified lightning protection system.
- B. Verify that surfaces are ready to receive Work.
- C. Field verify that measurements are as indicated on the Drawings.
- D. Protect elements surrounding Work of this Section from damage or disfiguration.

### **3.02 PREPARATION (NOT USED)**

### **3.03 INSTALLATION**

- A. In accordance with the manufacturer's instructions unless otherwise specified in this Section.
- B. Installation must be made by an LPI-certified master installer or an UL-certified installer.
  - 1. Roof penetrations are not allowed:
    - a. Coordinate attachment of lightning protection components by approved adhesive or clamps with Section 07\_53\_00 - Elastomeric Membrane Roofing to prevent leakage.
    - b. Route down conductors to edge of roof and penetrate wall for concealed down conductors or route externally for exposed down conductors.

- C. Conductor installations:
  - 1. Install the lightning protection roof system(s) grounding and bending conductors exposed on flat roof areas and concealed at ridge roof areas.
  - 2. Install main downloads completely concealed and sleeved.
  - 3. Other than for the purpose of protecting download conductors from damage up to 6 feet above grade level, do not use exposed conduits to conceal the downloads on the exterior of the buildings outside walls.
  - 4. Use minimum 1-inch PVC conduits to protect lightning system conductors from damage.
- D. Clearances:
  - 1. Ensure 6-foot minimum distance required by the NEC:
    - a. From lightning rod conductors to non-current-carrying metal parts of electrical equipment unless they are bonded to the rods.
    - b. From lightning system conductors to open conductors of communication systems.
    - c. From lightning protection grounding electrodes to electrodes of other grounding systems.
- E. Extend air terminals a minimum of 12 inches above object to be protected.
- F. Maintain horizontal or downward coursing of main conductor and ensure that bends have at least an 8 inch radius and that no bend of a conductor forms an included angle of less than 90 degrees.
- G. Grounding electrode system:
  - 1. Where a grounding electrode system is indicated on the Drawings, modify the installation to meet the applicable lightning protection standards.
    - a. Provide additional electrodes where required.
  - 2. Where a grounding electrode system is not indicated on the Drawings, install grounding electrodes in accordance with the applicable UL or LPI standards.
- H. Interconnection of metals:
  - 1. Bond metal bodies within 6 feet of the conductor to the system with approved fittings and conductor.
  - 2. Connections between dissimilar metals shall be made with approved bimetallic connections.
  - 3. Bond metal bodies of inductance located within 6 feet of a conductor or object with secondary bonds.
- I. Bond isolated metallic bodies at or below the roof subject to inductance and within 6 feet of lightning protection system conductors.
- J. Provide necessary common grounds between the lightning protections system and the electric and telephone service entrance wires, TV and radio antenna grounds.
- K. Ensure that air terminals are installed to withstand calculated wind force due to 100 mile per hour winds or as specified in Section 01\_81\_50 - Design Criteria, whichever is greater, with a 1.3 gust factor without structural damage and without damage to integrity of the lightning protection system.

### **3.04 FIELD QUALITY CONTROL**

- A. Provide one of the following:
  - 1. Services of UL to physically inspect the entire lightning protection system and issue the UL Master Label:
    - a. Furnish UL Master Label as evidence that the installation has met with UL 96A code requirements.
  - 2. Obtain LPI system certification reports and LPI system certification.

END OF SECTION

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<sup>AD2</sup> Addendum No. 2

October 12, 2026

Prospective Bidders

Signal Hill WTP Optimization

**RE: Signal Hill WTP Optimization – Instrumentation and Controls Subcontractor (ICSC) Services**

SKM Engineering is pleased to submit this proposal to the Contractor for instrumentation and controls subcontractor (ICSC) services on the Mountain Regional Water Special Service District Signal Hill Water Treatment Plant Optimization project (Carollo Engineers bid documents dated August 2026). SKM is named as the Owner-assigned ICSC in Section 01 11 00, Article 1.04.

Our scope includes furnishing and programming the new chemical building PLC control panel (PCM-CHEM), programming the main plant control panel (PCM-MAIN), integrating vendor-furnished control systems into the plant HMI, integrating the temporary membrane filtration system and the irrigation pump station, and supporting testing and startup. Pricing is broken out to match Bid Items 5, 6, and 8 and Bid Alternate A on the Bid Form (Document 00 41 00). SKM prepared the electrical design for this project and is familiar with the drawings, specifications, and existing facility.

**Project Understanding**

The project expands the Signal Hill Water Treatment Plant with a new pumped flash mix, vertical flocculators, conversion of the sedimentation basin to a thickening basin, new membrane filtration skids, a new chemical building, a solids holding tank, a GAC building extension, and new wet well and irrigation pump stations. The plant must remain in operation throughout construction, with one five-month winter shutdown, and temporary membrane filtration trailers will be used to extend the work window.

The control system is based on Rockwell Automation ControlLogix 5580 PLCs and an Inductive Automation Ignition HMI and historian, per Division 40 (Sections 40 61 00, 40 64 01, 40 64 22, and 40 96 15). Based on the I/O List (Section 40 96 15, Attachment A) and our review of the P&IDs, the project control system includes:

- PCM-CHEM (new, chemical building): 196 hardwired I/O points
  - 32 AI, 21 AO, 115 DI, 28 DO
  - 3 Ethernet/IP devices via MCC-CHEM (2 networked starters and the MCC-CHEM power monitor)
  - Brine storage tank vendor panel VCP-70-701 (hardwired interface)
- PCM-MAIN (main plant): 142 hardwired I/O points



- 55 AI, 5 AO, 74 DI, 8 DO, including 73 existing points to be re-landed and 4 points shown on the P&IDs but not on the I/O List
- By bid item: 111 points under Bid Item 6, 8 points at the irrigation pump station (Bid Item 8), and 23 points in Bid Alternate A
- 49 Ethernet/IP devices: 23 VFDs, 5 networked starters, 10 flow meters, 7 analyzers, and 4 power monitors (SWBD-MAIN, DP-MAIN, DP-MB, and MCC-MAIN). Of these, 4 are at the irrigation pump station and 6 are in Bid Alternate A
- Vendor control systems to be integrated into the HMI (3 panels)
  - Membrane system main panel VCP-30-001 (membrane train data is passed through this panel)
  - Brine storage tank panel VCP-70-701 (hardwired to PCM-CHEM)
  - Belt filter press panel VCP-60-210 (Bid Alternate A)

## Scope of Services

### Task 1 – Furnish PLC Control Panel PCM-CHEM and Network Cabinet NCP-CHEM

- Design, fabricate, and factory test PLC control panel PCM-CHEM per Sections 40 61 00, 40 64 01, and 40 67 01
  - Allen-Bradley ControlLogix 5580 1756-L81E controller (3 MB, 100 EtherNet/IP nodes) and 1756 I/O
  - I/O for 32 AI, 21 AO, 115 DI, and 28 DO plus 25 percent installed spare of each type, wired to field terminal blocks
  - Spare backplane slots and spare program memory per Section 40 64 01
  - Panel UPS (UPS-CHEM-2), I/O network switch ES-CHEM-2 (Allen-Bradley Stratix 5200, 1783-CMS10B), power supplies, surge protection, and cabinet monitoring (power supply, redundancy, UPS, temperature, intrusion)
  - NEMA-rated enclosure with nameplates, wire tagging, and terminal blocks per specifications
- Design, assemble, and furnish network cabinet NCP-CHEM in the chemical building electrical room per Section 40 66 01 and Drawing 00N11
  - Swing-out (double-hinged) wall-mounted network rack enclosure with grounding, cable management, lighting, and thermal management
  - Managed rack-mount Ethernet switch ES-CHEM-1 (Rockwell Stratix 5410 or other listed manufacturer) with redundant power supplies, SFP transceivers, and 20 percent spare ports
  - Rack-mount UPS UPS-CHEM-1, fiber patch panel FPP-CHEM, copper patch panel, and patch cords with spares
- Configuration and testing of ES-CHEM-1 and ES-CHEM-2, including VLAN separation of the SCADA and business networks

- Panel shop drawings (layouts, bill of materials, PLC rack and card layout), wiring schematics and interconnection diagrams, and PLC/power supply calculations for submittal per Section 40 61 00
- Spare parts
  - Spare fuses (3 of each size and type) per Section 26 28 14 and spare enclosure fan filters per Section 40 67 01
  - Spare PLC parts per Section 40 64 01, Article 1.10 are excluded from the ICSC scope per coordination with the Owner (see Exclusions)
- Factory acceptance test (FAT) witnessed by the Owner and Engineer
- Delivery of the panel to the jobsite

#### **Task 2 – PCM-CHEM Programming**

- Programming of PCM-CHEM per Section 40 64 22 and the control descriptions, including all chemical systems (sodium hypochlorite, primary coagulant, sulfuric acid, caustic soda, sodium bisulfite, citric acid, and brine)
- Ethernet/IP configuration for the MCC-CHEM networked starters and power monitor
- Programming in accordance with the Owner's programming and HMI standards (maintained by SKM)

#### **Task 3 – PCM-MAIN Programming**

- Programming of the PCM-MAIN PLC for all new and modified process areas (flash mix, flocculation, membrane filtration feed, GAC, recycle, and solids). Irrigation is covered under Task 8 and Alternate A work under Task 7
- Re-integration of the 73 existing I/O points into the PCM-MAIN program
- Ethernet/IP configuration of 18 VFDs, 4 networked starters, 13 flow meters and analyzers, and the SWBD-MAIN, DP-MAIN, DP-MB, and MCC-MAIN power monitors
- Coordination with the Owner's replacement of the PCM-MAIN PLC hardware during the November 2027 shutdown (Section 01 11 00, Article 1.06)

#### **Task 4 – HMI Development and Vendor System Integration**

- Development of Ignition HMI screens, alarming, trending, and tag historian for PCM-CHEM and PCM-MAIN per Section 40 64 22
- Integration of vendor control systems into the HMI over Ethernet/IP
  - Membrane system main panel VCP-30-001 (membrane trains through the VCP)
  - Brine storage tank panel (VCP-70-701)
- Power monitoring screens, alarms, and energy trending in Ignition for the five power monitors (SWBD-MAIN, DP-MAIN, DP-MB, MCC-MAIN, and MCC-CHEM)
- Coordination with each vendor for tag lists, data exchange, and control handshakes

#### **Task 5 – Documentation, Testing, and Startup**

- PLC I/O list database (submittal and as-built) and control descriptions expanded from Section 40 61 16.10 to match the programming
- Loop drawings per Section 40 61 00 for every analog, discrete, and network signal, control panel, and vendor package
  - ISA-5.4 format matching sample loop drawing 00GN05, one sheet per loop, indexed by process area
  - Sample loop drawing submitted for Engineer review first; final loop drawings submitted after acceptance of the commissioning test reports
  - Includes MCC interconnections to control panels (Section 40 67 01)
- Software testing per Section 40 64 22: test plans, in-house testing with emulation, Owner-witnessed area tests, and the final integrated system test
- Loop validation and complete end-to-end testing (CEET) with the Contractor per Section 40 80 01
- On-site support for clean water testing, process startup, and the operational period per Section 40 80 01
- Operator and programmer training on the PLC and HMI systems per Section 40 80 01
- Test reports, record (as-built) program files, and O&M manual sections for the control system

#### **Task 6 – Temporary Membrane Filtration System (Bid Item 5)**

- Coordination with the Contractor on temporary power and controls for the temporary membrane and CIP trailers and the relocated membrane feed pumps (Section 01 14 00 and Drawings 00C03 and 00C04)
- Integration of critical alarms from the temporary membrane trailers and relocated feed pumps into the existing SCADA system over Ethernet/IP
- Alarm screens and notification for the temporary system during construction. A full one-to-one translation of the trailer vendor's controls and screens is not included
- Testing and startup support so the temporary system is substantially complete by March 31, 2028
- Interconnect and loop drawings for the temporary trailer interface
- Removal of the temporary alarm points at cutover to the permanent membrane system

#### **Task 7 – Bid Alternate A**

Bid Alternate A includes the new GAC building, new GAC contactors, dedicated GAC backwash pump, new belt filter press, and solids belt conveyor (Section 01 11 00, Article 1.02). If awarded, SKM will provide the following:

- PCM-MAIN programming, HMI graphics, and testing for GAC Train 3 (40N04) and the GAC backwash pump (40N05), including the GAC Train 3 valve position switches shown on the P&IDs

- Ethernet/IP configuration for VFD-40-131, VFD-40-011, FIT-40-136, FIT-40-137, and AIT-40-138
- HMI integration of the belt filter press vendor control panel VCP-60-210 and coordination with the press supplier for factory testing (Section 46 76 21)
- Loop drawings and I/O list updates for the Alternate A points (23 hardwired I/O plus VCP-60-210)
- Startup and commissioning support for the Alternate A equipment

### **Task 8 – Irrigation Pump Station (Bid Item 8)**

Bid Item 8 includes the irrigation pump station, irrigation valve vault, and irrigation piping, including startup and commissioning (Section 01 20 20). SKM will provide the following for the irrigation pump station (P&ID 15N01):

- PCM-MAIN programming for the irrigation pumps, wet well level control, and discharge valve (8 hardwired I/O: 1 AI, 5 DI, 2 DO)
- Ethernet/IP configuration for VFD-15-111, VFD-15-112, VFD-15-113, and flow meter FIT-15-116
- Ignition HMI screens, alarms, and trends for the irrigation system
- Loop drawings and I/O list entries for the irrigation points
- Testing, startup, and commissioning support for the irrigation pump station

### **Deliverables**

- PCM-CHEM panel and NCP-CHEM network cabinet submittal (layouts, bill of materials, schematics, interconnection diagrams, calculations) and as-built drawings
- PCM-CHEM control panel and NCP-CHEM network cabinet, factory tested and delivered to the site, with spare fuses and fan filters
- Control system programming project execution plan and test plans
- PLC I/O list and control descriptions (submittal and as-built)
- Loop drawings for PCM-CHEM, PCM-MAIN, and vendor packages (submittal and as-built)
- PCM-CHEM and PCM-MAIN program files and HMI application (as-built)
- FAT, area test, and final integrated test reports
- Training materials and O&M manual sections for the control system

### **Project Schedule**

SKM will follow the Contractor's construction schedule. None of the items in SKM's scope currently pose a risk to the project schedule.

## Fee

SKM proposes to perform the above scope of services for the following lump-sum amounts, organized to match the Bid Form (Document 00 41 00):

| Item                                                                     | Amount           |
|--------------------------------------------------------------------------|------------------|
| Bid Item 6 – Owner-specified ICSC (Tasks 1–5)                            | \$670,000        |
| Bid Item 5 – Temporary Membrane Filtration System, ICSC portion (Task 6) | \$44,700         |
| Bid Item 8 – Irrigation Pump Station, ICSC portion (Task 8)              | \$13,100         |
| Bid Alternate A – ICSC portion (Task 7)                                  | \$43,100         |
| <b>Base bid total (Bid Items 6, 5, and 8)</b>                            | <b>\$727,800</b> |
| <b>Base bid plus Bid Alternate A</b>                                     | <b>\$770,900</b> |

The Bid Alternate A amount is an add if Alternate A is awarded. Fees are billed monthly as work is completed. Pricing does not include sales tax.

## Assumptions

- Quantities are based on the Section 40 96 15 I/O List and the P&IDs in the August 2026 bid documents. Changes from addenda, change orders, or submittals will be handled as a change in scope.
- The Owner furnishes and installs the replacement PCM-MAIN PLC hardware (Section 01 11 00, Article 1.06). The Contractor terminates new field wiring at PCM-MAIN.
- The existing sludge collector panels (VCP-60-111 and VCP-60-112) are already integrated into the existing system and are not included. Vendor control systems (membrane, belt filter press, brine) are programmed by their vendors. SKM's scope is the data exchange and HMI integration. Vendors will provide tag lists and communication details.
- The temporary membrane trailers will be furnished and operated with their own vendor controls and HMI, with critical alarms available over Ethernet/IP. Temporary power, wiring, and conduit are by the Contractor.
- MCC, VFD, and starter network configuration (IP addressing at the device) is provided by the MCC manufacturer. SKM configures the PLC side.
- The HMI and historian are Inductive Automation Ignition. Ignition gateway licensing and modules are provided by the Owner.
- On-site work is during normal working hours, within the Promontory site access restrictions.

- Up to 125 site trips are included for testing, startup, training, and construction support (90 under Bid Item 6, 15 under Bid Item 5, 5 under Bid Item 8, and 15 under Bid Alternate A). Additional site time will be billed at SKM's standard rates.

## **Exclusions and Exceptions**

Spare PLC parts specified in Section 40 64 01, Article 1.10 (spare controllers, I/O cards, power supplies, communication modules, chassis, and communication cables). This has been coordinated with the Owner, and spare PLC parts are excluded from the ICSC scope at this time.

Installation of the PCM-CHEM panel, conduit, field wiring, and field terminations (by the Contractor)

Furnishing, installing, and calibrating field instruments, VFDs, MCCs, and starters (SKM participates in loop validation and CEET as described above)

PCM-MAIN PLC hardware, network rack NCP-MAIN and its equipment, and network equipment outside PCM-CHEM and NCP-CHEM

Installation, termination, and testing of fiber optic and copper network cabling between buildings and to field devices (by the Contractor)

Programming of vendor-furnished PLCs and control panels

Security cameras and business network equipment

Work required by changes to the bid documents after the date of this proposal

We appreciate the opportunity to submit this proposal and look forward to working with you.  
To authorize this work, please sign below and return one copy to our office.

Sincerely,

**Allen Rogers**, Principal  
**SKM Engineering, LLC.**  
allen.rogers@skmeng.com  
(801) 683-3765

**Accepted by**

---

Signature

Printed Name

---

Title

Date

***Attached:*** Articles of Terms and Conditions

# SKM Engineering, LLC

## Articles of Terms and Conditions

### I. SCOPE

SKM, Engineering LLC.(SKM) agrees to perform the services described in the proposal attached hereto which incorporates these terms and conditions. Unless modified in writing by the parties hereto, the duties of SKM shall not be construed to exceed those services specifically set forth in the proposal. These terms and conditions and the proposal, when executed by Client, shall constitute a binding agreement on both parties (hereinafter the "Agreement").

### II. COMPENSATION

Client agrees to pay for the services in Article I in accordance with the compensation provisions in the proposal. Payment to SKM will be made within 30 days after the date of billing. Interest on the unpaid balance will accrue beginning on the 31st day at the maximum interest rate permitted by law.

Time-related charges will be made in accordance with the billing rate referenced in the proposal or Agreement. Direct expenses and Subcontractor services shall be billed in accordance with the proposal or compensation exhibit attached to this Agreement. Otherwise, SKM's standard billing rates shall apply.

### III. RESPONSIBILITY

SKM is employed to render a professional service only, and any payments made by Client are compensation solely for such services rendered and recommendations made in carrying out the Work. SKM shall perform the services in accordance with generally accepted engineering practices and standards in effect when the services are rendered. SKM does not expressly or impliedly warrant or guarantee its services.

In performing construction management services, SKM shall act as agent of Client. SKM's review or supervision of work prepared or performed by other individuals or firms employed by Client shall not relieve those individuals or firms of complete responsibility for the adequacy of their work.

The presence of SKM's personnel at a construction site, whether as on-site representative, resident engineer or construction manager, shall be for the sole purpose of determining that the work is generally proceeding in conformance with the intent of the project specifications and contract documents and does not constitute any form of guarantee or assurance with respect to contractor's performance. No other express or implied warranty with respect to the Work is provided and all such other warranties are expressly disclaimed.

### IV. INDEMNIFICATION

SKM agrees to indemnify, defend, and hold Client harmless from and against any liability to the extent arising out of the negligent acts, errors or omissions of SKM, its agents, employees, or representatives, in the performance of duties under the Agreement. Regardless of any other term of this Agreement, in no event shall SKM be responsible or liable to the other for any incidental, consequential, or other indirect damages.

### V. ATTORNEYS' FEES

In the event of any litigation arising from or related to this Agreement or the services provided under this Agreement, the prevailing party shall be entitled to recover from the nonprevailing party all reasonable costs incurred, including staff time, court costs, attorneys' fees and all other related expenses in such litigation.

### VI. INSURANCE

SKM shall maintain during the life of the Agreement the following minimum insurance:

1. **Comprehensive general liability** insurance, including personal injury liability, blanket contractual liability, and broad form property damage liability. The combined single limit for bodily injury and property damage shall be not less than \$1,000,000.
2. **Automobile bodily injury and property damage liability** insurance covering owned, non-owned, rented, and hired cars. The combined single limit for bodily injury and property damage shall be not less than \$1,000,000
3. **Statutory Worker's compensation and employers' liability** insurance as required by state law.
4. **Professional liability** insurance with limits of not less than \$1,000,000.

### VII. SUBCONTRACTS

SKM shall be entitled, to the extent determined to be appropriate by SKM, to subcontract any portion of the Work to be performed under this Agreement.

### VIII. ASSIGNMENT

This Agreement is binding on the heirs, successors, and assigns of the parties hereto. The Agreement is not to be assigned by either Client or SKM without the prior written consent of the other.

### IX. INTEGRATION

These terms and conditions and the proposal to which they are attached represent the entire understanding of Client and SKM as to those matters contained herein. No prior oral or written understanding shall be of any force or effect with respect to those matters covered herein. The Agreement may not be modified or altered except in writing signed by both parties, provided further that any terms and conditions in any Task Order or purchase order issued in connection or under the Agreement which are inconsistent with the Agreement are deemed null and void.

### XI. CHOICE OF LAW/JURISDICTION

This Agreement shall be administered and interpreted under the laws of the State of Utah. Jurisdiction and venue of any litigation arising from the Agreement shall also be in Idaho.

### XII. SEVERABILITY

If any part of the Agreement is found unenforceable under applicable laws, such part shall be inoperative, null and void insofar as it is in conflict with said laws, but the remainder of the Agreement shall be in full force and effect.

### XIII. NO BENEFIT FOR THIRD PARTIES

The services to be performed by SKM hereunder are intended solely for the benefit of Client, and no right or benefit is conferred on, nor any contractual relationship intended or established with any person or entity not a party to this Agreement. No such person or entity shall be entitled to rely on SKM's performance of its services hereunder.

### XIV. WORK PRODUCT

SKM and Client recognize that SKM's work product submitted in performance of this Agreement is intended only for the Client's benefit and use. Change, alteration, or reuse on another project by Client shall be at Client's sole risk, and Client shall hold harmless and indemnify SKM against all losses, damages, costs and expense, including attorneys' fees, arising out of or related to any such unauthorized change, alteration or reuse.

Any signed, stamped and dated Construction Documents prepared by the Consultant are the Work Product. CADD files are furnished for convenience only. The transfer of the CADD files for use by the Client shall not be deemed a sale and the Consultant makes no warranty, either express or implied, of merchantability or fitness for any particular purpose.

### XV. SUSPENSION OF WORK

Work under this Agreement may be suspended as follows:

1. **BY Client.** By written notice to SKM, Client may suspend all or a portion of the Work under this Agreement if unforeseen circumstances beyond Client's control make normal progress of the Work impracticable. SKM shall be compensated for its reasonable expenses resulting from such suspension including mobilization and de-mobilization. If suspension is greater than 30 days, then SKM shall have the right to terminate this Agreement in accordance with Article XIV, Termination of Work.
2. **By SKM.** By written notice to Client, SKM may suspend the Work if SKM reasonably determines that working conditions at the Site (outside SKM's control) are unsafe, or in violation of applicable laws, or for other circumstances not caused by SKM that are interfering with the normal progress of the Work. SKM's suspension of Work hereunder shall be without prejudice to any other remedy of SKM at law or equity.

### XVI. TERMINATION OF WORK

This Agreement may be terminated as follows

1. **Client** (a) for its convenience on 30 days' notice to SKM, or (b) for materially breaches this Agreement through no fault of Client and SKM neither cures such material breach nor makes reasonable progress toward cure within 15 days after Client has given written notice of the alleged breach to SKM.
2. **By SKM** (a) for cause, if Client materially breaches this Agreement through no fault of SKM and Client neither cures such material breach nor makes reasonable progress toward cure within 15 days after SKM has given written notice of the alleged breach to Client, or (b) upon five days' notice if Work under this Agreement has been suspended by either Client or SKM in the aggregate for more than 30 days.
3. **Payment upon Termination.** In the event of termination, SKM shall perform such additional work as is reasonably necessary for the orderly closing of the Work. SKM shall be compensated for all work performed prior to the effective date of termination, plus work required for the orderly closing of the Work. Except for termination of SKM by Client for cause, SKM shall also receive a termination fee equal to 15 percent of the total compensation yet to be earned under existing authorizations at the time of termination.

### XVII. NOTICES

All notices required under this Agreement shall be by personal delivery, facsimile or mail to the SKM Project Manager and to the person signing the proposal on behalf of the Client, and shall be effective upon delivery to the address stated in the proposal



[illegible]

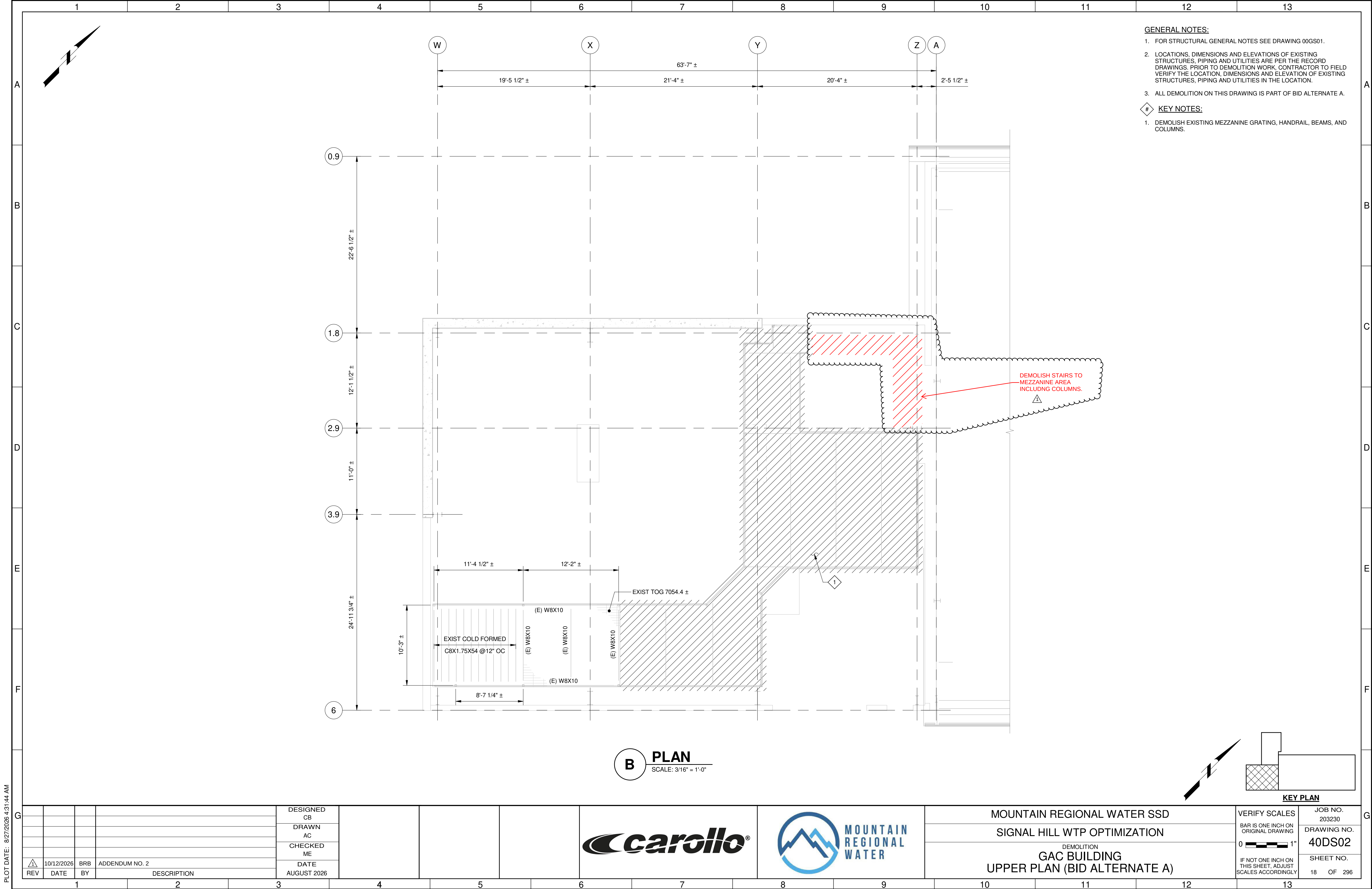






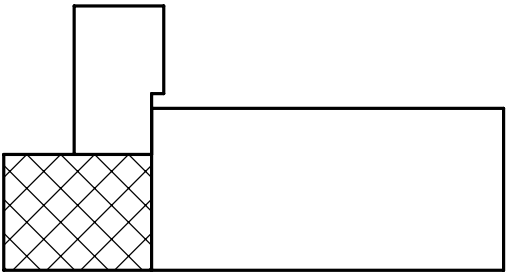






- GENERAL NOTES:**
- FOR STRUCTURAL GENERAL NOTES SEE DRAWING 00GS01.
  - LOCATIONS, DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES, PIPING AND UTILITIES ARE PER THE RECORD DRAWINGS. PRIOR TO DEMOLITION WORK, CONTRACTOR TO FIELD VERIFY THE LOCATION, DIMENSIONS AND ELEVATION OF EXISTING STRUCTURES, PIPING AND UTILITIES IN THE LOCATION.
  - ALL DEMOLITION ON THIS DRAWING IS PART OF BID ALTERNATE A.
- KEY NOTES:**
- DEMOLISH EXISTING MEZZANINE GRATING, HANDRAIL, BEAMS, AND COLUMNS.

**B PLAN**  
SCALE: 3/16" = 1'-0"



**KEY PLAN**

|                     |            |     |                |
|---------------------|------------|-----|----------------|
| DESIGNED<br>CB      |            |     |                |
| DRAWN<br>AC         |            |     |                |
| CHECKED<br>ME       |            |     |                |
| DATE<br>AUGUST 2026 |            |     |                |
| REV                 | DATE       | BY  | DESCRIPTION    |
|                     | 10/12/2026 | BRB | ADDENDUM NO. 2 |



MOUNTAIN REGIONAL WATER SSD  
SIGNAL HILL WTP OPTIMIZATION  
DEMOLITION  
GAC BUILDING  
UPPER PLAN (BID ALTERNATE A)

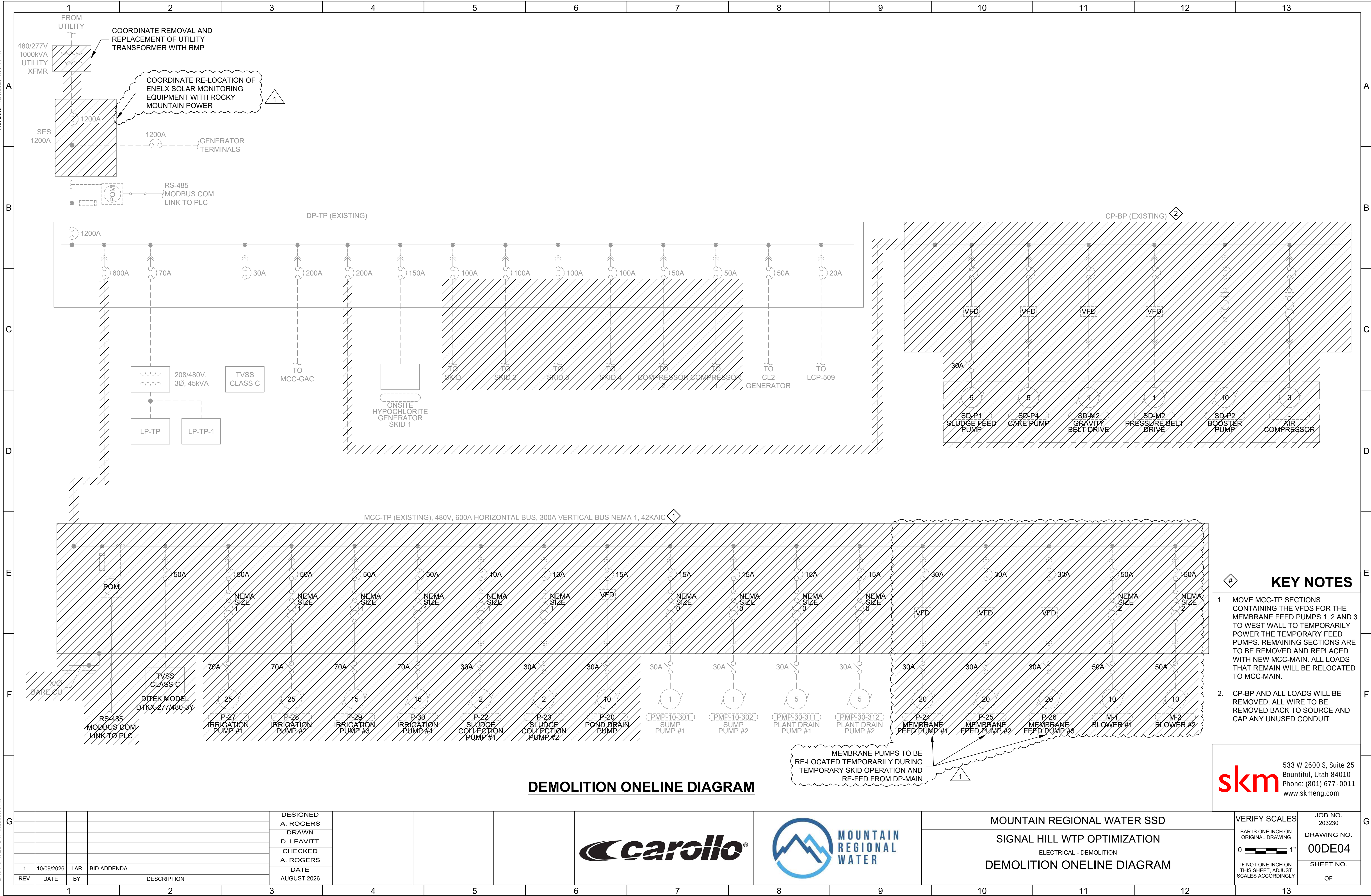
VERIFY SCALES  
BAR IS ONE INCH ON  
ORIGINAL DRAWING  
0 1"  
IF NOT ONE INCH ON  
THIS SHEET, ADJUST  
SCALES ACCORDINGLY

JOB NO.  
203230  
DRAWING NO.  
40DS02  
SHEET NO.  
18 OF 296



Plot Date: 10/9/2026 4:3641 PM

LAST SAVED BY: daniel leavitt



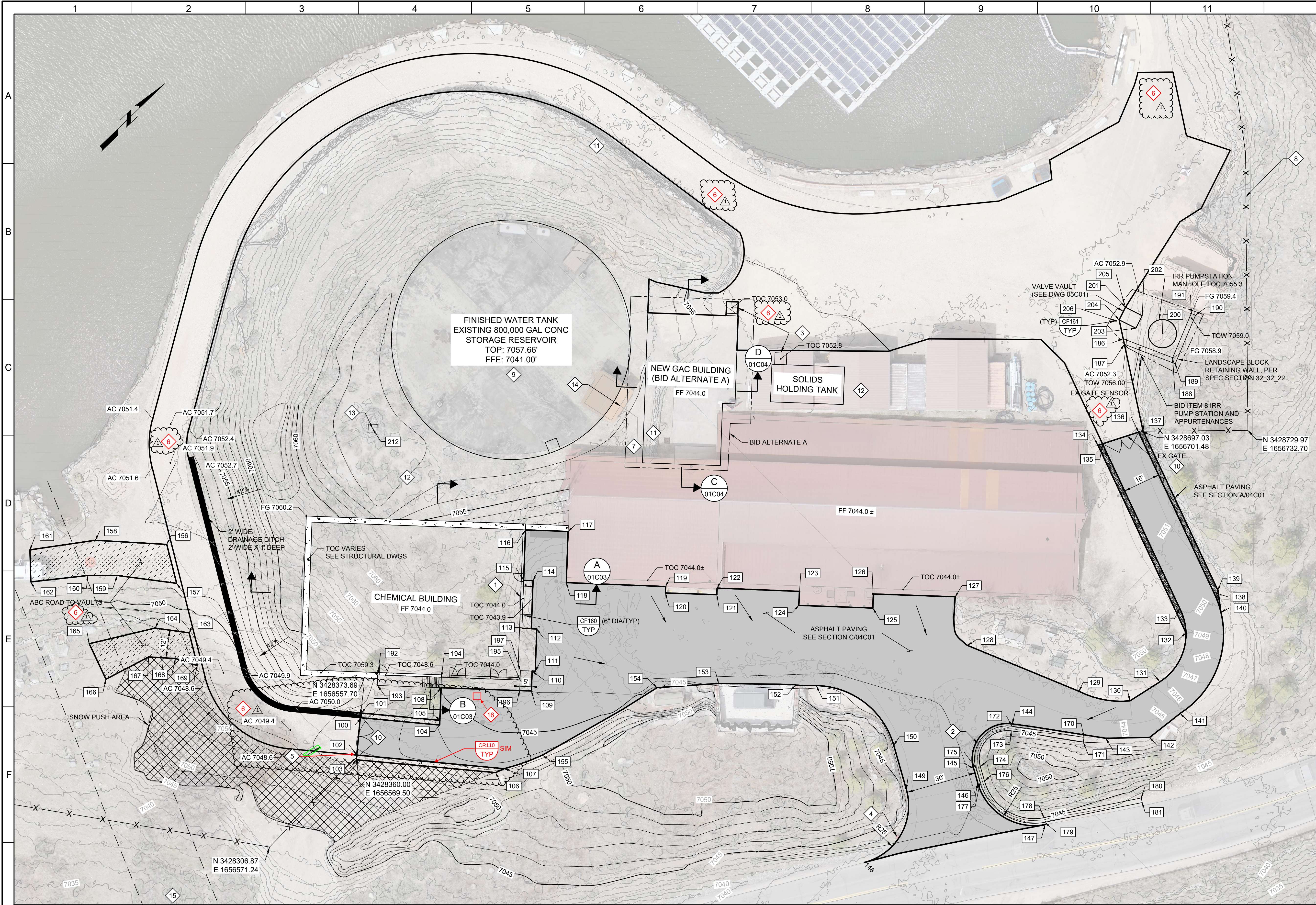


|   |                           |            |            |           |             |                           |            |            |           |             |                           |            |            |           |             |                           |            |            |           |             |       |            |            |           |             |       |            |            |           |                       |       |            |            |           |                       |
|---|---------------------------|------------|------------|-----------|-------------|---------------------------|------------|------------|-----------|-------------|---------------------------|------------|------------|-----------|-------------|---------------------------|------------|------------|-----------|-------------|-------|------------|------------|-----------|-------------|-------|------------|------------|-----------|-----------------------|-------|------------|------------|-----------|-----------------------|
| A | COORDINATE CONTROL POINTS |            |            |           |             | COORDINATE CONTROL POINTS |            |            |           |             | COORDINATE CONTROL POINTS |            |            |           |             | COORDINATE CONTROL POINTS |            |            |           |             |       |            |            |           |             |       |            |            |           |                       |       |            |            |           |                       |
|   | POINT                     | NORTHING   | EASTING    | ELEVATION | DESCRIPTION | POINT                     | NORTHING   | EASTING    | ELEVATION | DESCRIPTION | POINT                     | NORTHING   | EASTING    | ELEVATION | DESCRIPTION | POINT                     | NORTHING   | EASTING    | ELEVATION | DESCRIPTION | POINT | NORTHING   | EASTING    | ELEVATION | DESCRIPTION | POINT | NORTHING   | EASTING    | ELEVATION | DESCRIPTION           | POINT | NORTHING   | EASTING    | ELEVATION | DESCRIPTION           |
|   | 100                       | 3428373.12 | 1656558.62 | 7048.27   | CORNER      | 130                       | 3428613.86 | 1656780.80 | 7044.24   | END CURVE   | 160                       | 3428331.41 | 1656434.23 | 7051.20   | CORNER      | 194                       | 3428409.76 | 1656569.96 | 7044.00   | CORNER      | 194   | 3428409.76 | 1656569.96 | 7044.00   | CORNER      | 200   | 3428732.35 | 1656677.80 | 7056.91   | WET WELL CENTER       | 200   | 3428732.35 | 1656677.80 | 7056.91   | WET WELL CENTER       |
|   | 101                       | 3428374.63 | 1656557.32 | 7048.53   | CORNER      | 131                       | 3428628.65 | 1656783.81 | 7045.54   | BEGIN CURVE | 161                       | 3428321.27 | 1656409.27 | 7051.43   | CORNER      | 195                       | 3428433.01 | 1656594.08 | 7044.00   | CORNER      | 195   | 3428433.01 | 1656594.08 | 7044.00   | CORNER      | 201   | 3428728.84 | 1656658.77 | 7052.56   | NW CORNER VALVE VAULT | 201   | 3428728.84 | 1656658.77 | 7052.56   | NW CORNER VALVE VAULT |
|   | 102                       | 3428360.79 | 1656568.82 | 7048.45   | CORNER      | 132                       | 3428651.13 | 1656776.49 | 7049.02   | END CURVE   | 162                       | 3428312.05 | 1656419.35 | 7051.33   | CORNER      | 196                       | 3428429.77 | 1656597.20 | 7043.90   | CORNER      | 196   | 3428429.77 | 1656597.20 | 7043.90   | CORNER      | 202   | 3428731.50 | 1656666.32 | 7053.22   | NE CORNER VALVE VAULT | 202   | 3428731.50 | 1656666.32 | 7053.22   | NE CORNER VALVE VAULT |
|   | 103                       | 3428359.27 | 1656570.13 | 7048.77   | CORNER      | 133                       | 3428656.39 | 1656767.28 | 7050.13   | END CURVE   | 163                       | 3428345.52 | 1656481.78 | 7049.00   | CORNER      | 197                       | 3428435.89 | 1656591.30 | 7044.00   | CORNER      | 197   | 3428435.89 | 1656591.30 | 7044.00   | CORNER      | 203   | 3428725.84 | 1656668.31 | 7052.55   | SE CORNER VALVE VAULT | 203   | 3428725.84 | 1656668.31 | 7052.55   | SE CORNER VALVE VAULT |
|   | 104                       | 3428395.09 | 1656584.11 | 7045.94   | CORNER      | 134                       | 3428679.61 | 1656693.00 | 7052.05   | CORNER      | 164                       | 3428336.49 | 1656470.25 | 7047.00   | CORNER      | 198                       | 3428433.25 | 1656600.80 | 7043.80   | CORNER      | 198   | 3428433.25 | 1656600.80 | 7043.80   | CORNER      | 204   | 3428723.18 | 1656660.76 | 7052.43   | SW CORNER VALVE VAULT | 204   | 3428723.18 | 1656660.76 | 7052.43   | SW CORNER VALVE VAULT |
|   | 105                       | 3428396.53 | 1656582.72 | 7045.87   | CORNER      | 135                       | 3428681.42 | 1656693.88 | 7051.90   | CORNER      | 165                       | 3428311.68 | 1656455.58 | 7045.82   | CORNER      | 199                       | 3428433.25 | 1656600.80 | 7043.80   | CORNER      | 199   | 3428433.25 | 1656600.80 | 7043.80   | CORNER      | 205   | 3428729.45 | 1656657.49 | 7052.65   | N BOLLARD VALVE VAULT | 205   | 3428729.45 | 1656657.49 | 7052.65   | N BOLLARD VALVE VAULT |
|   | 106                       | 3428398.16 | 1656615.26 | 7042.80   | CORNER      | 136                       | 3428695.92 | 1656700.94 | 7051.87   | CORNER      | 166                       | 3428306.32 | 1656471.40 | 7045.33   | CORNER      | 200                       | 3428439.36 | 1656594.90 | 7043.90   | CORNER      | 200   | 3428439.36 | 1656594.90 | 7043.90   | CORNER      | 206   | 3428721.91 | 1656660.15 | 7052.47   | S BOLLARD VALVE VAULT | 206   | 3428721.91 | 1656660.15 | 7052.47   | S BOLLARD VALVE VAULT |
|   | 107                       | 3428401.91 | 1656616.55 | 7046.89   | CORNER      | 137                       | 3428697.73 | 1656701.82 | 7052.20   | CORNER      | 167                       | 3428325.98 | 1656477.18 | 7045.86   | CORNER      | 201                       | 3428440.29 | 1656595.86 | 7043.85   | CORNER      | 201   | 3428440.29 | 1656595.86 | 7043.85   | CORNER      | 207   | 3428541.68 | 1656677.73 | 7043.37   | S CLEANOUT PREV. SSMH | 207   | 3428541.68 | 1656677.73 | 7043.37   | S CLEANOUT PREV. SSMH |
| B | 108                       | 3428406.52 | 1656573.09 | 7043.90   | CORNER      | 138                       | 3428671.61 | 1656772.23 | 7050.32   | BEGIN CURVE | 168                       | 3428333.74 | 1656485.60 | 7047.05   | CORNER      | 202                       | 3428453.25 | 1656583.36 | 7043.85   | CORNER      | 202   | 3428453.25 | 1656583.36 | 7043.85   | CORNER      | 208   | 3428542.45 | 1656681.87 | 7043.34   | N CLEANOUT PREV. SSMH | 208   | 3428542.45 | 1656681.87 | 7043.34   | N CLEANOUT PREV. SSMH |
|   | 109                       | 3428433.25 | 1656600.80 | 7043.80   | CORNER      | 139                       | 3428673.50 | 1656772.87 | 7050.30   | CORNER      | 169                       | 3428338.36 | 1656494.29 | 7048.36   | CORNER      | 203                       | 3428451.63 | 1656581.69 | 7043.90   | CORNER      | 203   | 3428451.63 | 1656581.69 | 7043.90   | CORNER      | 209   | 3428261.76 | 1656623.99 | 7029.99   | CLEANOUT STA 13+12.75 | 209   | 3428261.76 | 1656623.99 | 7029.99   | CLEANOUT STA 13+12.75 |
|   | 110                       | 3428439.36 | 1656594.90 | 7043.90   | CORNER      | 140                       | 3428667.94 | 1656780.51 | 7049.80   | BEGIN CURVE | 170                       | 3428588.96 | 1656778.40 | 7044.30   | CORNER      | 204                       | 3428463.25 | 1656583.36 | 7043.85   | CORNER      | 204   | 3428463.25 | 1656583.36 | 7043.85   | CORNER      | 210   | 3428177.00 | 1656591.66 | 7024.02   | CENTER SSMH           | 210   | 3428177.00 | 1656591.66 | 7024.02   | CENTER SSMH           |
|   | 111                       | 3428440.29 | 1656595.86 | 7043.85   | CORNER      | 141                       | 3428625.45 | 1656799.48 | 7045.74   | END CURVE   | 171                       | 3428587.36 | 1656779.60 | 7045.00   | CORNER      | 205                       | 3428463.25 | 1656583.36 | 7043.85   | CORNER      | 205   | 3428463.25 | 1656583.36 | 7043.85   | CORNER      | 211   | 3428158.80 | 1656638.67 | 7018.35   | CENTER SSMH           | 211   | 3428158.80 | 1656638.67 | 7018.35   | CENTER SSMH           |
|   | 112                       | 3428453.25 | 1656583.36 | 7043.85   | CORNER      | 142                       | 3428609.06 | 1656797.80 | 7044.72   | CORNER      | 172                       | 3428570.15 | 1656753.69 | 7042.75   | BEGIN CURVE | 206                       | 3428463.25 | 1656583.36 | 7043.85   | CORNER      | 206   | 3428463.25 | 1656583.36 | 7043.85   | CORNER      | 212   | 3428462.16 | 1656473.40 | 7056.78   | CENTER CATCH BASIN    | 212   | 3428462.16 | 1656473.40 | 7056.78   | CENTER CATCH BASIN    |
|   | 113                       | 3428451.63 | 1656581.69 | 7043.90   | CORNER      | 143                       | 3428595.37 | 1656785.10 | 7044.09   | CORNER      | 173                       | 3428568.58 | 1656754.93 | 7045.00   | BEGIN CURVE | 207                       | 3428463.25 | 1656583.36 | 7043.85   | CORNER      | 207   | 3428463.25 | 1656583.36 | 7043.85   | CORNER      | 213   | 3427825.14 | 1656568.79 | 6987.56   | CENTER SSMH           | 213   | 3427825.14 | 1656568.79 | 6987.56   | CENTER SSMH           |
|   | 114                       | 3428466.37 | 1656567.46 | 7043.90   | CORNER      | 144                       | 3428570.94 | 1656753.07 | 7043.84   | BEGIN CURVE | 174                       | 3428548.56 | 1656756.71 | 7045.00   | END CURVE   | 208                       | 3428463.25 | 1656583.36 | 7043.85   | CORNER      | 208   | 3428463.25 | 1656583.36 | 7043.85   | CORNER      |       |            |            |           |                       |       |            |            |           |                       |
|   | 115                       | 3428463.60 | 1656564.58 | 7044.00   | CORNER      | 145                       | 3428545.91 | 1656755.30 | 7042.80   | END CURVE   | 175                       | 3428546.79 | 1656755.77 | 7042.75   | END CURVE   | 209                       | 3428463.25 | 1656583.36 | 7043.85   | CORNER      | 209   | 3428463.25 | 1656583.36 | 7043.85   | CORNER      |       |            |            |           |                       |       |            |            |           |                       |
|   | 116                       | 3428479.08 | 1656549.65 | 7044.55   | CORNER      | 146                       | 3428542.87 | 1656761.01 | 7042.82   | BEGIN CURVE | 176                       | 3428545.52 | 1656762.42 | 7045.00   | BEGIN CURVE | 210                       | 3428463.25 | 1656583.36 | 7043.85   | CORNER      | 210   | 3428463.25 | 1656583.36 | 7043.85   | CORNER      |       |            |            |           |                       |       |            |            |           |                       |
|   | 117                       | 3428491.69 | 1656562.73 | 7044.43   | CORNER      | 147                       | 3428551.26 | 1656793.68 | 7043.66   | END CURVE   | 177                       | 3428543.75 | 1656761.48 | 7042.75   | BEGIN CURVE | 211                       | 3428463.25 | 1656583.36 | 7043.85   | CORNER      | 211   | 3428463.25 | 1656583.36 | 7043.85   | CORNER      |       |            |            |           |                       |       |            |            |           |                       |
| C | 118                       | 3428476.00 | 1656577.89 | 7044.00   | CORNER      | 148                       | 3428484.77 | 1656751.87 | 7042.87   | BEGIN CURVE | 178                       | 3428552.90 | 1656791.16 | 7045.00   | END CURVE   | 212                       | 3428463.25 | 1656583.36 | 7043.85   | CORNER      | 212   | 3428463.25 | 1656583.36 | 7043.85   | CORNER      |       |            |            |           |                       |       |            |            |           |                       |
|   | 119                       | 3428505.31 | 1656608.49 | 7044.00   | CORNER      | 149                       | 3428519.10 | 1656741.82 | 7043.94   | END CURVE   | 179                       | 3428551.81 | 1656792.84 | 7042.75   | END CURVE   | 213                       | 3428463.25 | 1656583.36 | 7043.85   | CORNER      | 213   | 3428463.25 | 1656583.36 | 7043.85   | CORNER      |       |            |            |           |                       |       |            |            |           |                       |
|   | 120                       | 3428503.31 | 1656610.34 | 7043.63   | CORNER      | 150                       | 3428528.28 | 1656724.56 | 7043.96   | BEGIN CURVE | 180                       | 3428588.61 | 1656813.91 | 7043.40   | CORNER      |                           |            |            |           |             |       |            |            |           |             |       |            |            |           |                       |       |            |            |           |                       |
|   | 121                       | 3428518.56 | 1656626.08 | 7043.65   | CORNER      | 151                       | 3428522.15 | 1656683.40 | 7043.78   | END CURVE   | 181                       | 3428587.53 | 1656815.59 | 7043.50   | CORNER      |                           |            |            |           |             |       |            |            |           |             |       |            |            |           |                       |       |            |            |           |                       |
|   | 122                       | 3428520.61 | 1656624.17 | 7044.00   | CORNER      | 152                       | 3428515.96 | 1656677.05 | 7043.79   | CORNER      | 186                       | 3428718.84 | 1656667.77 | 7052.36   | CORNER      |                           |            |            |           |             |       |            |            |           |             |       |            |            |           |                       |       |            |            |           |                       |
|   | 123                       | 3428543.37 | 1656650.94 | 7044.00   | CORNER      | 153                       | 3428492.88 | 1656653.84 | 7043.91   | CORNER      | 187                       | 3428717.58 | 1656669.80 | 7052.32   | CORNER      |                           |            |            |           |             |       |            |            |           |             |       |            |            |           |                       |       |            |            |           |                       |
|   | 124                       | 3428540.57 | 1656653.64 | 7043.65   | CORNER      | 154                       | 342        |            |           |             |                           |            |            |           |             |                           |            |            |           |             |       |            |            |           |             |       |            |            |           |                       |       |            |            |           |                       |



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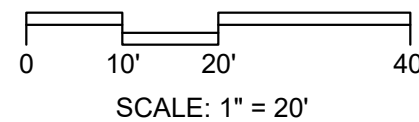


- GENERAL NOTES:**
- SEE TYPICAL ASPHALT SECTION A/04C01.
  - GAC BUILDING BID ALTERNATE A. SEE SPECIFICATION SECTION 00\_41\_00.
- KEY NOTES:**
- PROVIDE 2% SLOPE AWAY FROM BUILDING PER TYPICAL DETAILS.
  - EXISTING ROCK FOR LANDSCAPE ROCK WALL TO BE REUSED. MOVE WALL BACK TO PROVIDE NEW 30' ENTRANCE AND RADIUS. EXISTING MATURE TREES TO BE RELOCATED. SEE LANDSCAPE DRAWINGS.
  - CONCRETE STAIR LANDING, 5'X5' PER CR314/TYP.
  - EXISTING FIRE HYDRANT TO BE PROTECTED IN PLACE.
  - RELOCATE EXISTING GATE AND SENSOR BACK TO THIS LOCATION. PERIMETER FENCING TO TIE IN AT GATE LOCATION. SEE OVERALL DRAWING.
  - RESTORE GRAVEL ROAD. MATCH EXISTING GRADE. RECOMPACT SUBGRADE AND PLACE AND COMPACT 8" MIN ABC PER SPECIFICATIONS.**
  - SHIPS LADDER TO BE INSTALLED FROM GRADE OVER WALL TO ACCESS HVAC ON GAC ROOF. SEE STRUCTURAL DWG AND SR324/TYP.
  - INSTALL NEW FENCE 2' INSIDE OF PROPERTY. FENCE TO BE PVC COATED BLACK CHAIN LINK WITH TOP RAIL. SEE SPECIFICATION SECTION 32.31.00, AND CR201/TYP. FENCE TO RUN UP TO EXISTING OR RELOCATED PIVOT GATES ON ACCESS ROADS.
  - THE EXISTING FINISHED WATER TANK IS TO BE PROTECTED AT ALL TIMES DURING CONSTRUCTION. NO VEHICULAR TRAFFIC, NOR PLACEMENT OF MATERIALS, NOR STORAGE OF ANY KIND WILL BE ALLOWED ON THE TOP OF THE TANK.
  - PROVIDE CONTRACTOR GATE DURING CONSTRUCTION. RESTORE EXISTING ACCESS GATE AND CONTROLS AT END OF CONSTRUCTION. COORDINATE WITH DISTRICT. SEE KEYNOTE 8.
  - LANDSCAPE **ROCK** WALLS THAT ARE REMOVED DURING CONSTRUCTION ARE TO BE RESTORED TO ORIGINAL, AS PART OF FINAL GRADING.
  - BACKFILL STRUCTURES AS NOTED IN 31\_00\_00. OUTSIDE OF ABC, AC PAVEMENT, AND LANDSCAPE AREA, BRING TO GRADE WITH 6" TOPSOIL AND RAKE SMOOTH. SEE DWG 04C03.
  - STORM DRAIN CATCH BASIN. SET AND GRADE TO LOW SPOT IN THIS AREA SOUTH OF TANK. PIPING TO RUN TO PERFORATED DRAIN PIPE SYSTEM AT FOOTING OF CHEM BUILDING. SEE DWG 01C03.
  - EXISTING SHED AND CONDUITS TO SHED TO BE PROTECTED IN PLACE.
  - NOTE ASPHALT DEMO AND INSTALL OFFSHEET. REFER TO DETAIL E ON SHEET 04C01.
  - STORM DRAIN CATCH BASIN. SEE 05C01. TOP OF CATCH BASIN AT 7043.80'.**



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SCALE



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|-----|------------|-----|----------------|
| 1   | 10/12/2026 | JCB | ADDENDUM NO. 2 |

|                     |
|---------------------|
| DESIGNED<br>JB      |
| DRAWN<br>NY         |
| CHECKED<br>BY       |
| DATE<br>AUGUST 2026 |



MOUNTAIN REGIONAL WATER SSD  
SIGNAL HILL WTP OPTIMIZATION  
CIVIL  
GRADING AND PAVING PLAN

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.

203230

DRAWING NO.

01C01

SHEET NO.

43 OF 296







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# KEY NOTES CON'T:

10. STORM DRAIN CATCH BASIN PER CS202/TYP. SEE 01C01. 6" SD TO RUN TO PERFORATED PIPE SYSTEM AT TOE OF CHEM BUILDING. TEE INTO PERFORATED PIPE AND WRAP TEE WITH FABRIC AND ROCK SIMILAR TO DETAIL B/04C01.
11. IRRIGATION MANHOLE, PUMPS, VALVE BOX, PIPES, AND APPURTENANCES PART OF BID ITEM 8. SEE 00\_41\_00 BID FORM.
12. GAC BID ALTERNATE A. SEE 00\_41\_00 BID FORM.
13. EXISTING SHED AND CONDUITS TO SHED, TO BE PROTECTED IN PLACE.
14. SS RUNS UNDERNEATH EXISTING W LINES. SEE SS PROFILE.
15. 4" SS PUMPED LINE TIE IN TO 6" SS PER SBWRD LAT-06 W/CO TO GRADE.
16. 2" SPD TIE IN TO 6" SS PER SBWRD LAT-06 W/CO TO GRADE. SEE 6" SS PROFILE FOR TIE IN ELE
17. 2" SPD TO DROP BELOW GRADE TO 6" SS. KEEP PIPE 5' MIN BELOW GRADE PER SBWRD STANDARDS.
18. STORM DRAIN CATCH BASIN PER CS202/TYP. SEE 01C01. TOP OF CATCH BASIN AT 7043.80. 4" SD IE 7042.00. RUN SD OVER SS, PW, AND SS AND DAYLIGHT AT 7439.00'. SEE CONTINUATION ON 05C02.

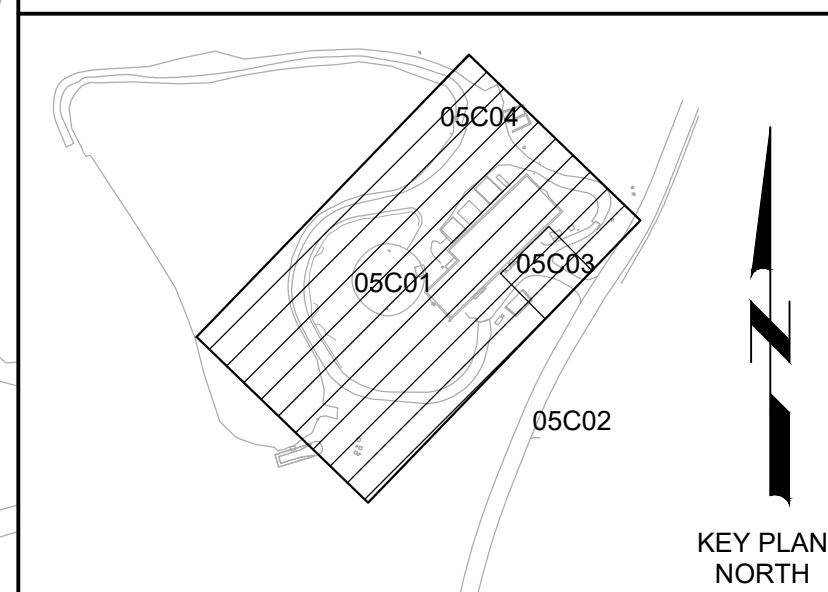
GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO APPLICABLE LOCAL, STATE AND FEDERAL CODES AND STANDARDS.
  2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.
  3. SO NOT SCALE DRAWINGS; USE DIMENSIONS AS SHOWN.
  4. ALL PIPE BEDDING AND BACKFILL SHALL BE PER DETAIL AND SPECIFICATION.
- # KEY NOTES:
1. THIS ALIGNMENT HAS AN UPPER 8" PUMPED LINE AND A LOWER 8" GRAVITY LINE. SEE MANHOLE DETAIL ON 04C01 AND MECHANICAL DRAWINGS FOR CONTINUATION INTO EXISTING WTP.
  2. CONNECT NEW NG LINE TO EXISTING NG LINE DOWNSTREAM OF METER. RUN BELOW GRADE TO NEW CHEMICAL BUILDING. PROVIDE AN ANODELESS RISER, SHUTOFF VALVE, SEISMIC VALVE, AND 14" WC REGULATOR AT BUILDING ENTRANCE.
  3. CONTRACTOR TO COORDINATE LOCATION OF OF MANHOLE AND 4" SS WITH NEW ELECTRICAL DUCTBANKS PRIOR TO PLACEMENT. SEE DWG 01E01.
  4. 8" PW LINE INTO MECHANICAL ROOM FOR FIRE RISER LINE AND POTABLE WATER FOR EYE WASH. SEE PLUMBING DRAWINGS FOR FIRE RISER DETAILS AND CONTINUATIONS.
  5. THERE ARE QTY 2, 8" IRR PIPES FROM THE TREATMENT BUILDING TO THE MANHOLE STACKED FROM THE BUILDING AND INTO THE MANHOLE. SEE DETAIL ON 04C02 AND MECHANICAL DRAWINGS FOR CONTINUATION.
  6. EXISTING FLOW METER IN MANHOLE TO BE REPLACED WITH NEW FLOW METER. SEE MECHANICAL DRAWINGS.
  7. TRAFFIC RATED PRECAST VAULT AND HATCHES. VENTS, AIR RELEASE, CHECK VALVE. 6' X 8' PRECAST VALVE VAULT SEE 04C02.
  8. PIPELINE FEEDS RAW WATER TO PARK CITY'S QUINNS JUNCTION WTP. THIS PIPELINE SHALL REMAIN IN SERVICE AT ALL TIMES, EXCEPT FOR SHORT SHUTDOWN WINDOWS FOR RW TIE-INS. REFER TO SPEC SECTION 01\_14\_00 - WORK RESTRICTIONS.
  9. PROVIDE FLEXIBLE JOINT/COUPLING OUTSIDE BUILDING WALL TO ACCOMMODATE DIFFERENTIAL SETTLEMENT BETWEEN BUILDING STRUCTURE AND BURIED PIPELINE. CONTRACTOR TO COORDINATE FINAL COUPLING TYPE WITH PIPE MANUFACTURER.

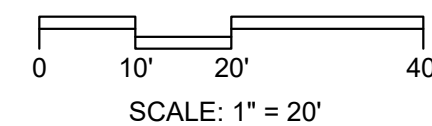


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KEY PLAN



SCALE



| REV | DATE       | BY  | DESCRIPTION    |
|-----|------------|-----|----------------|
| 1   | 10/12/2026 | JCB | ADDENDUM NO. 2 |
| 2   | 10/05/2026 | BRB | ADDENDUM NO. 1 |

|                     |
|---------------------|
| DESIGNED<br>JB      |
| DRAWN<br>NY         |
| CHECKED<br>BY       |
| DATE<br>AUGUST 2026 |



MOUNTAIN REGIONAL WATER SSD  
SIGNAL HILL WTP OPTIMIZATION  
CIVIL  
YARD PIPING 1

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.  
203230

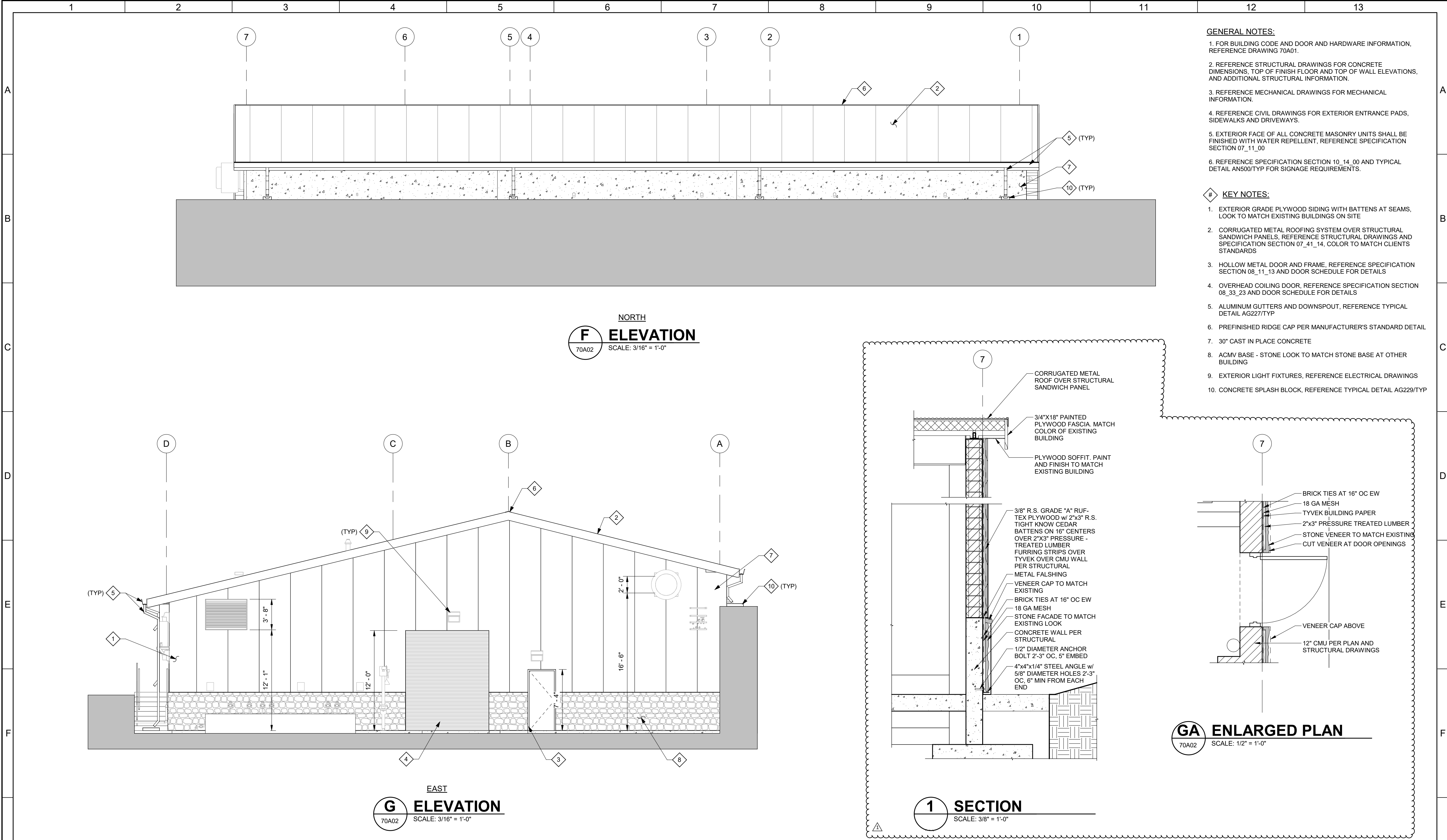
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05C01

SHEET NO.  
51 OF 296



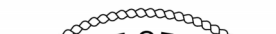






- GENERAL NOTES:**
1. FOR BUILDING CODE AND DOOR AND HARDWARE INFORMATION, REFERENCE DRAWING 70A01.
  2. REFERENCE STRUCTURAL DRAWINGS FOR CONCRETE DIMENSIONS, TOP OF FINISH FLOOR AND TOP OF WALL ELEVATIONS, AND ADDITIONAL STRUCTURAL INFORMATION.
  3. REFERENCE MECHANICAL DRAWINGS FOR MECHANICAL INFORMATION.
  4. REFERENCE CIVIL DRAWINGS FOR EXTERIOR ENTRANCE PADS, SIDEWALKS AND DRIVEWAYS.
  5. EXTERIOR FACE OF ALL CONCRETE MASONRY UNITS SHALL BE FINISHED WITH WATER REPELLENT, REFERENCE SPECIFICATION SECTION 07\_11\_00
  6. REFERENCE SPECIFICATION SECTION 10\_14\_00 AND TYPICAL DETAIL AN500/TYP FOR SIGNAGE REQUIREMENTS.

- KEY NOTES:**
1. EXTERIOR GRADE PLYWOOD SIDING WITH BATTENS AT SEAMS, LOOK TO MATCH EXISTING BUILDINGS ON SITE
  2. CORRUGATED METAL ROOFING SYSTEM OVER STRUCTURAL SANDWICH PANELS, REFERENCE STRUCTURAL DRAWINGS AND SPECIFICATION SECTION 07\_41\_14, COLOR TO MATCH CLIENTS STANDARDS
  3. HOLLOW METAL DOOR AND FRAME, REFERENCE SPECIFICATION SECTION 08\_11\_13 AND DOOR SCHEDULE FOR DETAILS
  4. OVERHEAD COILING DOOR, REFERENCE SPECIFICATION SECTION 08\_33\_23 AND DOOR SCHEDULE FOR DETAILS
  5. ALUMINUM GUTTERS AND DOWNSPOUT, REFERENCE TYPICAL DETAIL AG227/TYP
  6. PREFINISHED RIDGE CAP PER MANUFACTURER'S STANDARD DETAIL
  7. 30" CAST IN PLACE CONCRETE
  8. ACMV BASE - STONE LOOK TO MATCH STONE BASE AT OTHER BUILDING
  9. EXTERIOR LIGHT FIXTURES, REFERENCE ELECTRICAL DRAWINGS
  10. CONCRETE SPLASH BLOCK, REFERENCE TYPICAL DETAIL AG229/TYP

|   |                                                                                     |            |     |                |                     |                                                                                     |                                                                                       |                                                                                       |                                                |  |  |  |                                                          |                   |   |
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| G |                                                                                     |            |     |                | DESIGNED<br>MEH     |  |  |  | MOUNTAIN REGIONAL WATER SSD                    |  |  |  | VERIFY SCALES                                            | JOB NO.<br>203230 | G |
|   |                                                                                     |            |     |                | DRAWN<br>NK         |                                                                                     |                                                                                       |                                                                                       | SIGNAL HILL WTP OPTIMIZATION                   |  |  |  | BAR IS ONE INCH ON ORIGINAL DRAWING                      | DRAWING NO.       |   |
|   |                                                                                     |            |     |                | CHECKED<br>JCA      |                                                                                     |                                                                                       |                                                                                       | ARCHITECTURAL                                  |  |  |  | 0 1"                                                     | 70A05             |   |
|   |                                                                                     |            |     |                | DATE<br>AUGUST 2026 |                                                                                     |                                                                                       |                                                                                       | CHEMICAL BUILDING<br>NORTH AND EAST ELEVATIONS |  |  |  | IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY | SHEET NO.         |   |
|   |                                                                                     |            |     |                |                     |                                                                                     |                                                                                       |                                                                                       |                                                |  |  |  |                                                          | OF XX             |   |
|   |  | 10/12/2026 | MEH | ADDENDUM NO. 2 |                     |                                                                                     |                                                                                       |                                                                                       |                                                |  |  |  |                                                          |                   |   |
|   | REV                                                                                 | DATE       | BY  | DESCRIPTION    |                     |                                                                                     |                                                                                       |                                                                                       |                                                |  |  |  |                                                          |                   |   |









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| DESIGNED<br>CB      |
| DRAWN<br>TJD        |
| CHECKED<br>ME       |
| DATE<br>AUGUST 2026 |

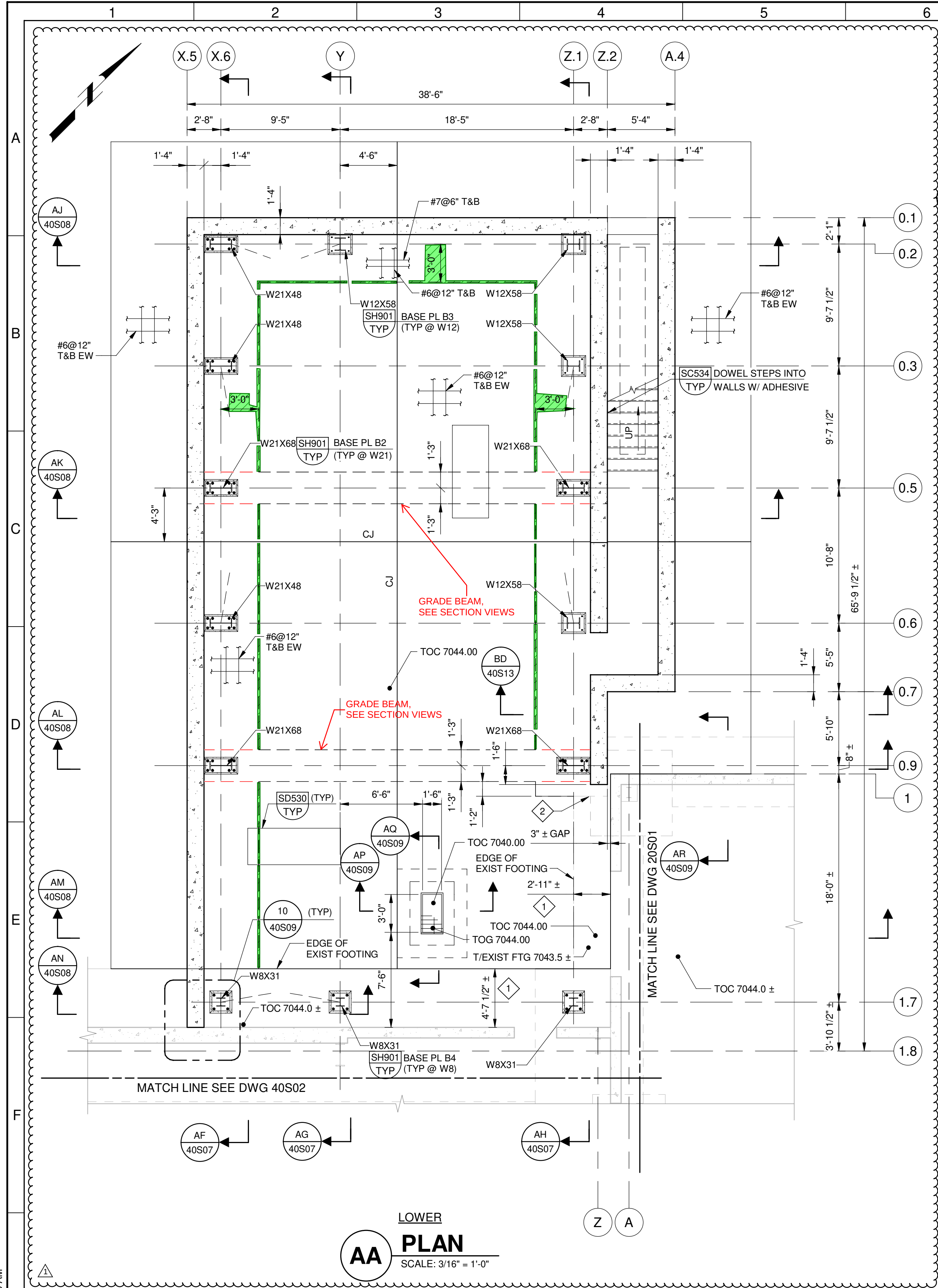


MOUNTAIN REGIONAL WATER SSD  
SIGNAL HILL WTP OPTIMIZATION  
STRUCTURAL  
MAIN TREATMENT BUILDING  
SECTIONS AND DETAILS 2

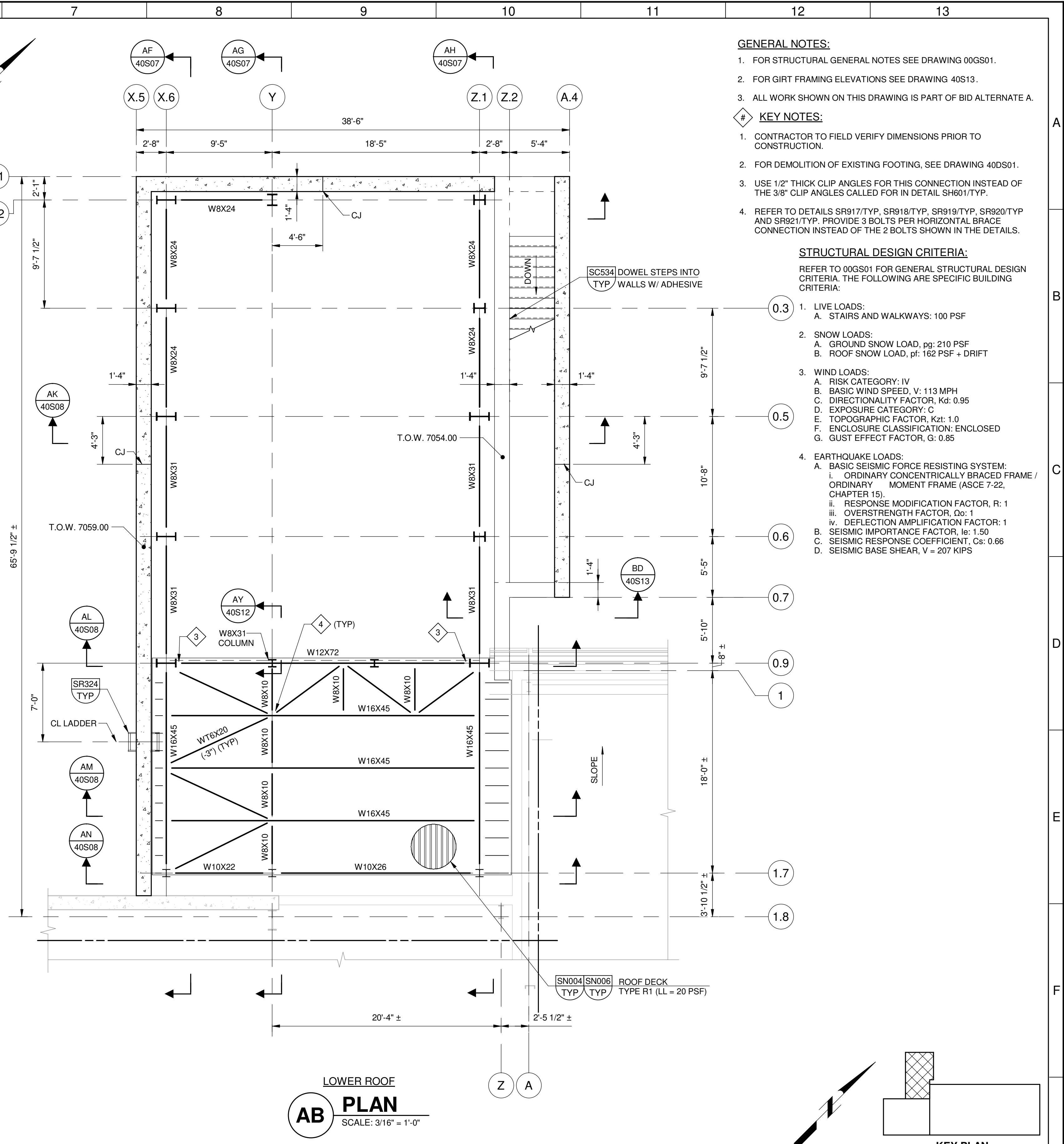
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THIS SHEET, ADJUST



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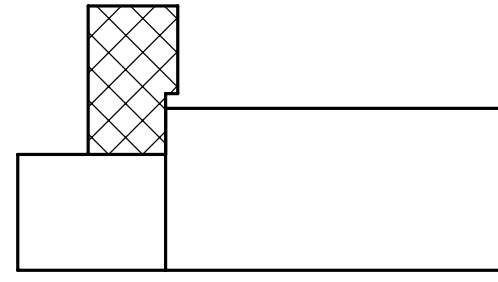
LOWER  
AA PLAN  
SCALE: 3/16" = 1'-0"



LOWER ROOF  
AB PLAN  
SCALE: 3/16" = 1'-0"

- GENERAL NOTES:**
- FOR STRUCTURAL GENERAL NOTES SEE DRAWING 00GS01.
  - FOR GIRT FRAMING ELEVATIONS SEE DRAWING 40S13.
  - ALL WORK SHOWN ON THIS DRAWING IS PART OF BID ALTERNATE A.
- KEY NOTES:**
- CONTRACTOR TO FIELD VERIFY DIMENSIONS PRIOR TO CONSTRUCTION.
  - FOR DEMOLITION OF EXISTING FOOTING, SEE DRAWING 40DS01.
  - USE 1/2" THICK CLIP ANGLES FOR THIS CONNECTION INSTEAD OF THE 3/8" CLIP ANGLES CALLED FOR IN DETAIL SH601/TYP.
  - REFER TO DETAILS SR917/TYP, SR918/TYP, SR919/TYP, SR920/TYP AND SR921/TYP. PROVIDE 3 BOLTS PER HORIZONTAL BRACE CONNECTION INSTEAD OF THE 2 BOLTS SHOWN IN THE DETAILS.

- STRUCTURAL DESIGN CRITERIA:**
- REFER TO 00GS01 FOR GENERAL STRUCTURAL DESIGN CRITERIA. THE FOLLOWING ARE SPECIFIC BUILDING CRITERIA:
- LIVE LOADS:  
A. STAIRS AND WALKWAYS: 100 PSF
  - SNOW LOADS:  
A. GROUND SNOW LOAD, pg: 210 PSF  
B. ROOF SNOW LOAD, pr: 162 PSF + DRIFT
  - WIND LOADS:  
A. RISK CATEGORY: IV  
B. BASIC WIND SPEED, V: 113 MPH  
C. DIRECTIONALITY FACTOR, Kd: 0.95  
D. EXPOSURE CATEGORY: C  
E. TOPOGRAPHIC FACTOR, Kzt: 1.0  
F. ENCLOSURE CLASSIFICATION: ENCLOSED  
G. GUST EFFECT FACTOR, G: 0.85
  - EARTHQUAKE LOADS:  
A. BASIC SEISMIC FORCE RESISTING SYSTEM:  
i. ORDINARY CONCENTRICALLY BRACED FRAME / ORDINARY MOMENT FRAME (ASCE 7-22, CHAPTER 15).  
ii. RESPONSE MODIFICATION FACTOR, R: 1  
iii. OVERSTRENGTH FACTOR,  $\Omega_o$ : 1  
iv. DEFLECTION AMPLIFICATION FACTOR: 1  
B. SEISMIC IMPORTANCE FACTOR,  $I_e$ : 1.50  
C. SEISMIC RESPONSE COEFFICIENT,  $C_s$ : 0.66  
D. SEISMIC BASE SHEAR, V = 207 KIPS



KEY PLAN

| REV | DATE       | BY  | DESCRIPTION    |
|-----|------------|-----|----------------|
| 1   | 10/12/2026 | DCB | ADDENDUM NO. 2 |

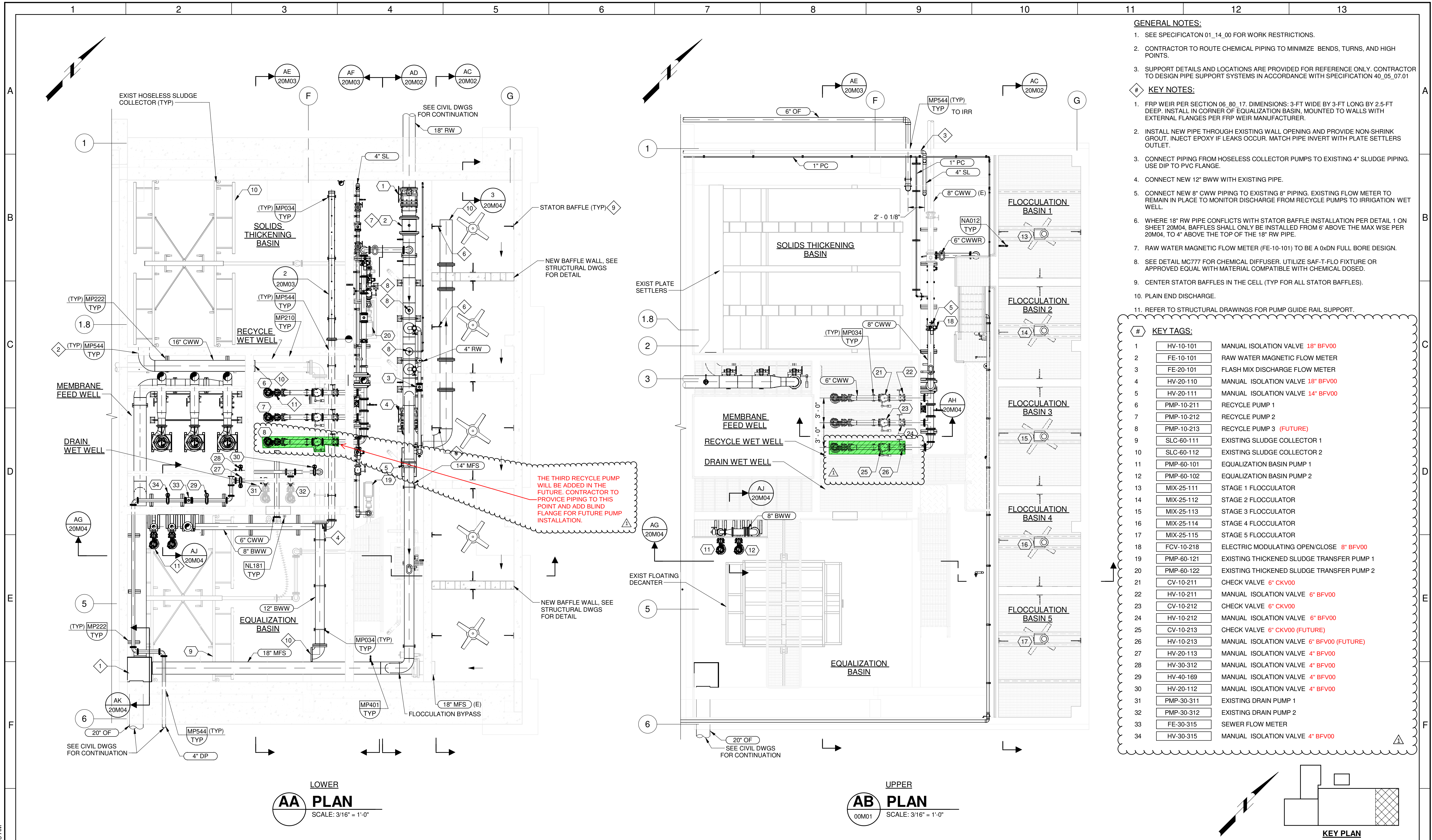
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| DRAWN<br>TJD        |
| CHECKED<br>ME       |
| DATE<br>AUGUST 2026 |



MOUNTAIN REGIONAL WATER SSD  
SIGNAL HILL WTP OPTIMIZATION  
STRUCTURAL  
GAC BUILDING  
PLANS 1 (BID ALTERNATE A)

|                                                                                                                          |                                                                     |
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| VERIFY SCALES<br>BAR IS ONE INCH ON ORIGINAL DRAWING<br>0 1"<br>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY | JOB NO.<br>203230<br>DRAWING NO.<br>40S04<br>SHEET NO.<br>85 OF 296 |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|





- GENERAL NOTES:**
- SEE SPECIFICATION 01\_14\_00 FOR WORK RESTRICTIONS.
  - CONTRACTOR TO ROUTE CHEMICAL PIPING TO MINIMIZE BENDS, TURNS, AND HIGH POINTS.
  - SUPPORT DETAILS AND LOCATIONS ARE PROVIDED FOR REFERENCE ONLY. CONTRACTOR TO DESIGN PIPE SUPPORT SYSTEMS IN ACCORDANCE WITH SPECIFICATION 40\_05\_07.01
- KEY NOTES:**
- FRP WEIR PER SECTION 06\_80\_17. DIMENSIONS: 3-FT WIDE BY 3-FT LONG BY 2.5-FT DEEP. INSTALL IN CORNER OF EQUALIZATION BASIN. MOUNTED TO WALLS WITH EXTERNAL FLANGES PER FRP WEIR MANUFACTURER.
  - INSTALL NEW PIPE THROUGH EXISTING WALL OPENING AND PROVIDE NON-SHRINK GROUT. INJECT EPOXY IF LEAKS OCCUR. MATCH PIPE INVERT WITH PLATE SETTLERS OUTLET.
  - CONNECT PIPING FROM HOSELESS COLLECTOR PUMPS TO EXISTING 4" SLUDGE PIPING. USE DIP TO PVC FLANGE.
  - CONNECT NEW 12" BWW WITH EXISTING PIPE.
  - CONNECT NEW 8" CWW PIPING TO EXISTING 8" PIPING. EXISTING FLOW METER TO REMAIN IN PLACE TO MONITOR DISCHARGE FROM RECYCLE PUMPS TO IRRIGATION WET WELL.
  - WHERE 18" RW PIPE CONFLICTS WITH STATOR BAFFLE INSTALLATION PER DETAIL 1 ON SHEET 20M04. BAFFLES SHALL ONLY BE INSTALLED FROM 6" ABOVE THE MAX WSE PER 20M04, TO 4" ABOVE THE TOP OF THE 18" RW PIPE.
  - RAW WATER MAGNETIC FLOW METER (FE-10-101) TO BE A 0xDN FULL BORE DESIGN.
  - SEE DETAIL MC777 FOR CHEMICAL DIFFUSER. UTILIZE SAF-T-FLO FIXTURE OR APPROVED EQUAL WITH MATERIAL COMPATIBLE WITH CHEMICAL DOSED.
  - CENTER STATOR BAFFLES IN THE CELL (TYP FOR ALL STATOR BAFFLES).
  - PLAIN END DISCHARGE.
  - REFER TO STRUCTURAL DRAWINGS FOR PUMP GUIDE RAIL SUPPORT.

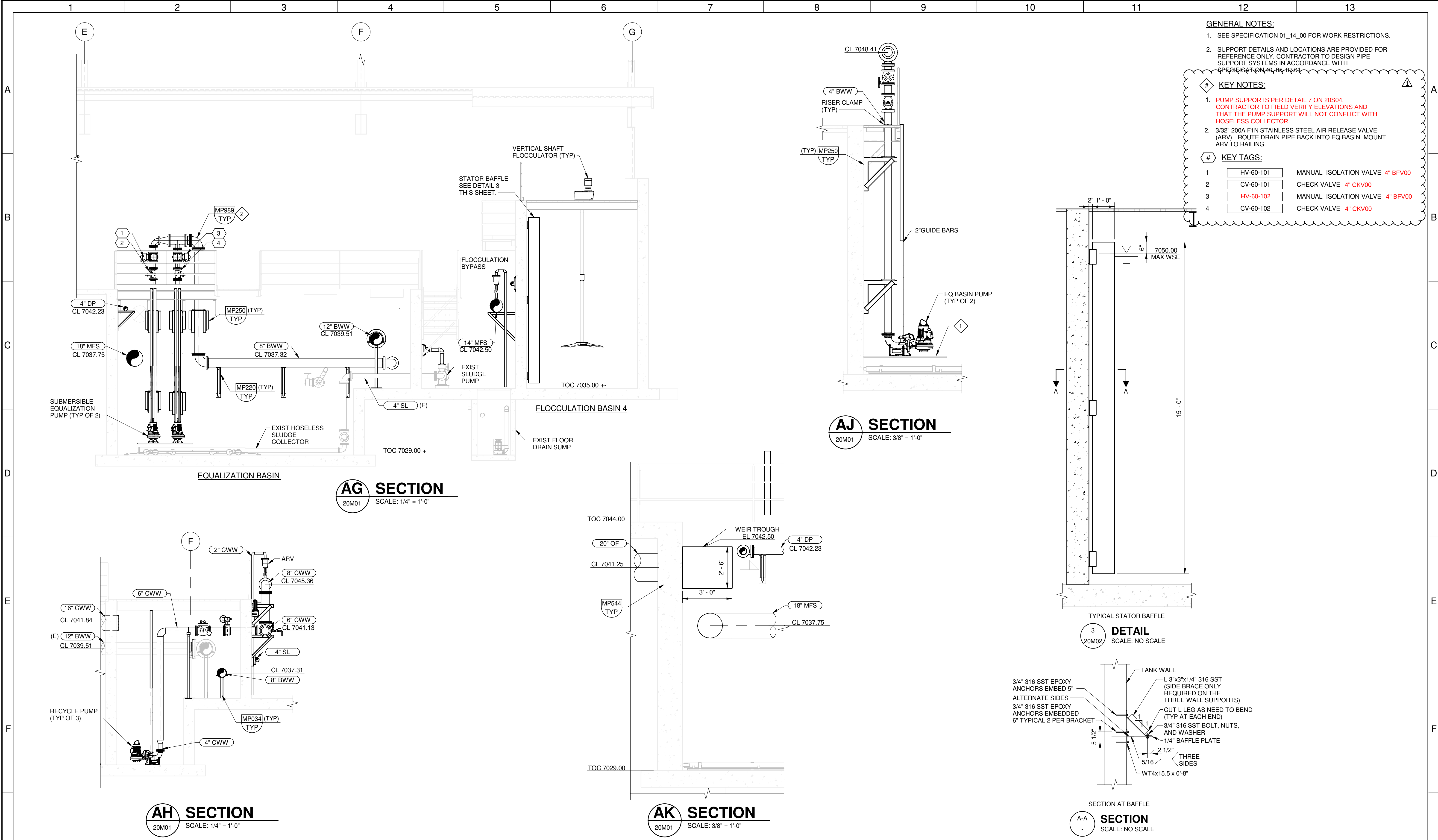
| #  | KEY TAGS:  |                                           |
|----|------------|-------------------------------------------|
| 1  | HV-10-101  | MANUAL ISOLATION VALVE 18" BFV00          |
| 2  | FE-10-101  | RAW WATER MAGNETIC FLOW METER             |
| 3  | FE-20-101  | FLASH MIX DISCHARGE FLOW METER            |
| 4  | HV-20-110  | MANUAL ISOLATION VALVE 18" BFV00          |
| 5  | HV-20-111  | MANUAL ISOLATION VALVE 14" BFV00          |
| 6  | PMP-10-211 | RECYCLE PUMP 1                            |
| 7  | PMP-10-212 | RECYCLE PUMP 2                            |
| 8  | PMP-10-213 | RECYCLE PUMP 3 (FUTURE)                   |
| 9  | SLC-60-111 | EXISTING SLUDGE COLLECTOR 1               |
| 10 | SLC-60-112 | EXISTING SLUDGE COLLECTOR 2               |
| 11 | PMP-60-101 | EQUALIZATION BASIN PUMP 1                 |
| 12 | PMP-60-102 | EQUALIZATION BASIN PUMP 2                 |
| 13 | MIX-25-111 | STAGE 1 FLOCCULATOR                       |
| 14 | MIX-25-112 | STAGE 2 FLOCCULATOR                       |
| 15 | MIX-25-113 | STAGE 3 FLOCCULATOR                       |
| 16 | MIX-25-114 | STAGE 4 FLOCCULATOR                       |
| 17 | MIX-25-115 | STAGE 5 FLOCCULATOR                       |
| 18 | FCV-10-218 | ELECTRIC MODULATING OPEN/CLOSE 8" CKV00   |
| 19 | PMP-60-121 | EXISTING THICKENED SLUDGE TRANSFER PUMP 1 |
| 20 | PMP-60-122 | EXISTING THICKENED SLUDGE TRANSFER PUMP 2 |
| 21 | CV-10-211  | CHECK VALVE 6" CKV00                      |
| 22 | HV-10-211  | MANUAL ISOLATION VALVE 6" BFV00           |
| 23 | CV-10-212  | CHECK VALVE 6" CKV00                      |
| 24 | HV-10-212  | MANUAL ISOLATION VALVE 6" BFV00           |
| 25 | CV-10-213  | CHECK VALVE 6" CKV00 (FUTURE)             |
| 26 | HV-10-213  | MANUAL ISOLATION VALVE 6" BFV00 (FUTURE)  |
| 27 | HV-20-113  | MANUAL ISOLATION VALVE 4" BFV00           |
| 28 | HV-30-312  | MANUAL ISOLATION VALVE 4" BFV00           |
| 29 | HV-40-169  | MANUAL ISOLATION VALVE 4" BFV00           |
| 30 | HV-20-112  | MANUAL ISOLATION VALVE 4" BFV00           |
| 31 | PMP-30-311 | EXISTING DRAIN PUMP 1                     |
| 32 | PMP-30-312 | EXISTING DRAIN PUMP 2                     |
| 33 | FE-30-315  | SEWER FLOW METER                          |
| 34 | HV-30-315  | MANUAL ISOLATION VALVE 4" BFV00           |

|                                                                           |  |  |  |             |  |             |  |                                                                                                                                             |  |  |  |                                                                                                                                        |  |                                                                          |  |
|---------------------------------------------------------------------------|--|--|--|-------------|--|-------------|--|---------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------|--|
| <div>DESIGNED TH<br/>DRAWN PML<br/>CHECKED CAG<br/>DATE AUGUST 2026</div> |  |  |  | <div></div> |  | <div></div> |  | <div>MOUNTAIN REGIONAL WATER SSD<br/>SIGNAL HILL WTP OPTIMIZATION<br/>MECHANICAL<br/>PRETREATMENT, WET WELLS, SOLIDS THICKENING PLANS</div> |  |  |  | <div>VERIFY SCALES<br/>BAR IS ONE INCH ON ORIGINAL DRAWING<br/>0 1"<br/>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</div> |  | <div>JOB NO. 203230<br/>DRAWING NO. 20M01<br/>SHEET NO. 115 OF 296</div> |  |
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|   |  | 10/12/2026 | EKB | ADDENDUM NO. 2 |
|   | REV                                                                                 | DATE       | BY  | DESCRIPTION    |

|          |             |
|----------|-------------|
| DESIGNED | TH          |
| DRAWN    | PML         |
| CHECKED  | Checker     |
| DATE     | AUGUST 2026 |



|                                            |  |                                                          |             |
|--------------------------------------------|--|----------------------------------------------------------|-------------|
| MOUNTAIN REGIONAL WATER SSD                |  | VERIFY SCALES                                            | JOB NO.     |
| SIGNAL HILL WTP OPTIMIZATION               |  | BAR IS ONE INCH ON ORIGINAL DRAWING                      | 203230      |
| MECHANICAL                                 |  | 0 1"                                                     | DRAWING NO. |
| PRETREATMENT, WET WELLS, SOLIDS THICKENING |  | IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY | 20M04       |
| SECTIONS AND DETAILS 3                     |  |                                                          | SHEET NO.   |
|                                            |  |                                                          | 118 OF 296  |

PLOT DATE: 8/31/2026 5:56:15 AM



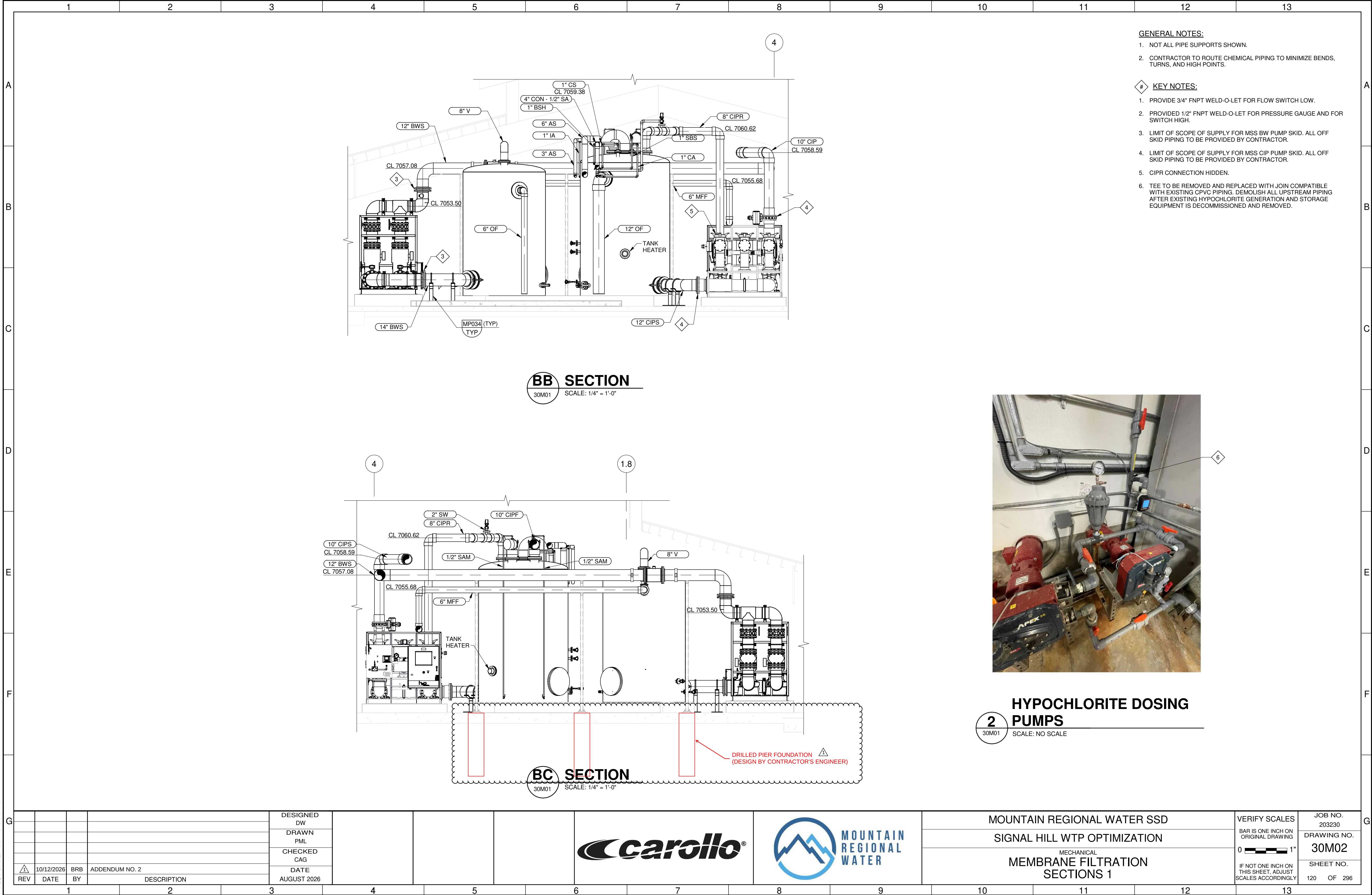
FILE NAME: Autodesk Docs://Mountain Regional Water SSD/203230\_30M0801.rvt



|                                                                                                                                                                                                                                       |                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <b>VERIFY SCALES</b><br><br>BAR IS ONE INCH ON<br>ORIGINAL DRAWING<br><br><br><br>IF NOT ONE INCH ON<br>THIS SHEET, ADJUST<br>SCALES ACCORDINGLY | <b>JOB NO.</b><br>203230       |
|                                                                                                                                                                                                                                       | <b>DRAWING NO.</b><br>30M01    |
|                                                                                                                                                                                                                                       | <b>SHEET NO.</b><br>119 OF 296 |



PLOT DATE: 8/31/2026 5:57:10 AM







- |   |          |                     |
|---|----------|---------------------|
| 1 | AC95000A | UF AIR COMPRESSOR 1 |
| 2 | AC95000B | UF AIR COMPRESSOR 2 |
| 3 | F 95024A | COALESCING FILTER   |
| 4 | F 95024B | COALESCING FILTER   |
| 5 | F 95720A | CARBON FILTER       |
| 6 | F 95720B | CARBON FILTER       |



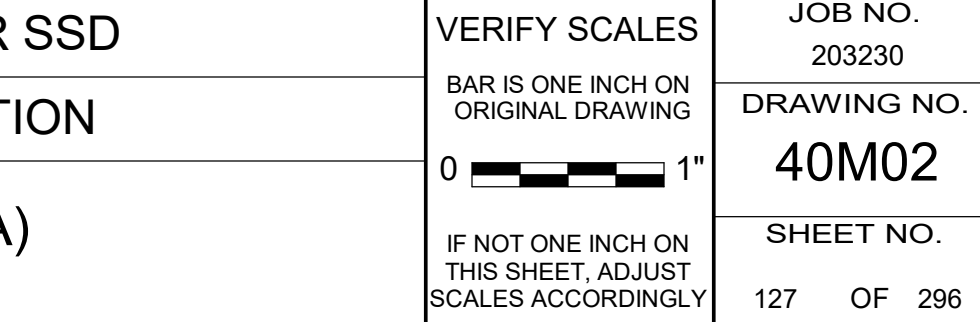
|             |
|-------------|
| DESIGNED    |
| DW          |
| DRAWN       |
| PML         |
| CHECKED     |
| CAG         |
| DATE        |
| AUGUST 2026 |



# MECHANICAL MEMBRANE FILTRATION SECTION

|                                                                |                                   |
|----------------------------------------------------------------|-----------------------------------|
| IF NOT ONE INCH ON<br>THIS SHEET, ADJUST<br>SCALES ACCORDINGLY | SHEET NO.<br><br>124    OF    296 |
|----------------------------------------------------------------|-----------------------------------|





|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|



MOUNTAIN REGIONAL WATER SSD  
SIGNAL HILL WTP OPTIMIZATION  
MECHANICAL  
GAC (BID ALTERNATE A)  
PLAN

VERIFY SCALES

BAR IS ONE INCH ON  
ORIGINAL DRAWING

0  1"

IF NOT ONE INCH ON  
THIS SHEET, ADJUST  
SCALES ACCORDINGLY

JOB NO.  
203230

---

DRAWING NO.  
40M02

---

SHEET NO.  
27 OF 296





- |    |            |          |
|----|------------|----------|
| 19 | HV-40-116  | 8" BFV00 |
| 21 | HV-40-126  | 8" BFV00 |
| 22 | VAL-40-110 | 8" BFV00 |

|             |
|-------------|
| DESIGNED    |
| JC          |
| DRAWN       |
| DL          |
| CHECKED     |
| CAG         |
| DATE        |
| AUGUST 2026 |



SHEET NO.

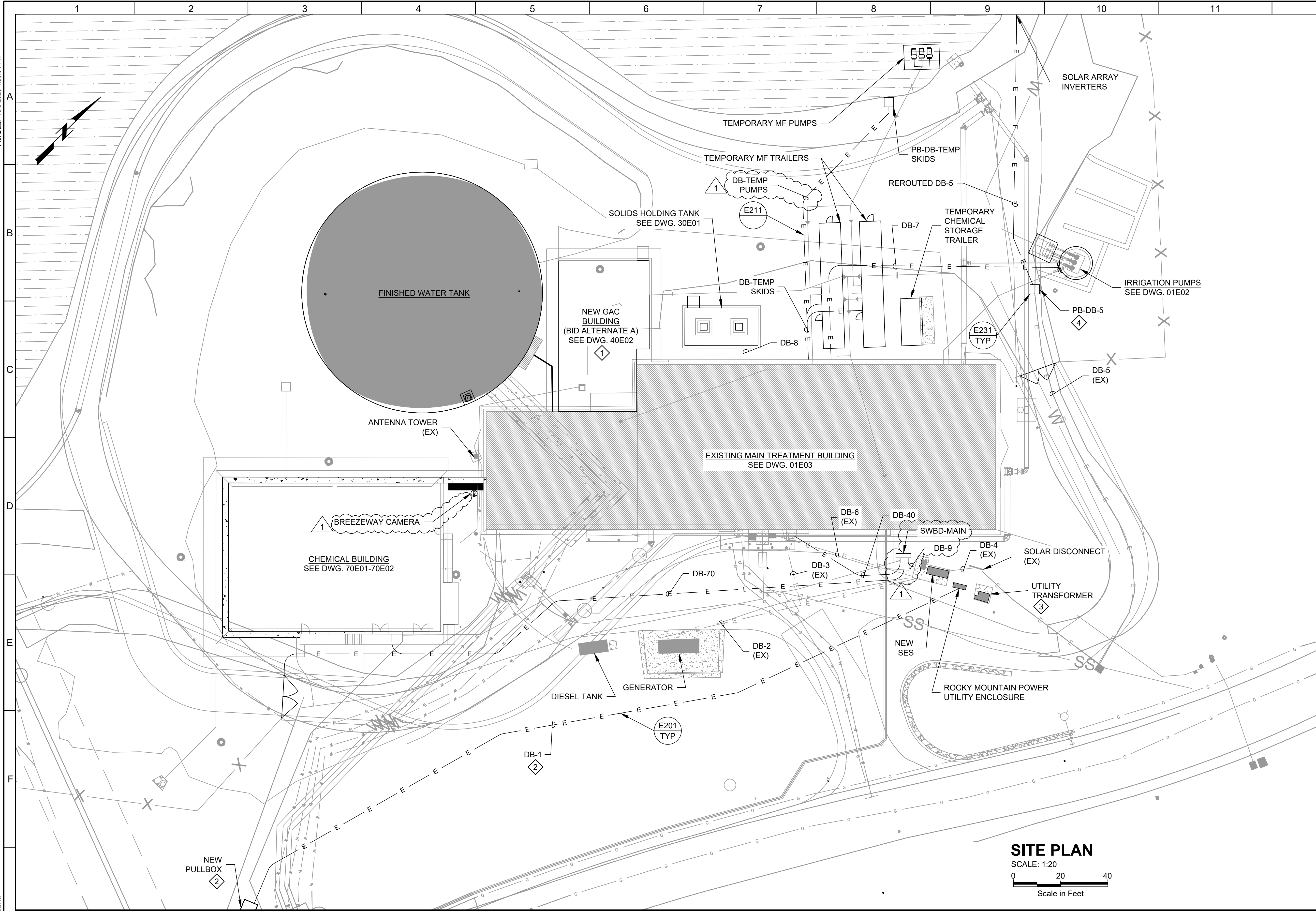
129 OF 296

FILE NAME: Autodesk Docs://Mountain Regional Water SSD/203230\_30M0801.rvt



Plot Date: 10/9/2026 4:50:54 PM

LAST SAVED BY: daniel leavitt



**SITE PLAN**

SCALE: 1:20



Scale in Feet

**GENERAL NOTES**

- CONDUIT SHALL ONLY RUN EXPOSED WHERE NECESSARY. ALL EXPOSED CONDUIT SHALL BE PVC COATED. PANELS SHALL BE STAINLESS STEEL NEMA 4X.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CONDUIT DETAILS AND A CONDUIT ROUTING PLAN TO THE ELECTRICAL ENGINEER FOR APPROVAL.
- LIMIT EXPOSED CONDUITS, 90° BENDS AND WALL PENETRATIONS. MAINTAIN SEPARATION BETWEEN SIGNAL AND POWER-CARRYING CONDUITS.



**KEY NOTES**

- NEW GAC BUILDING IS INCLUDED IN BID ALTERNATE A.
- COORDINATE WITH ROCKY MOUNTAIN POWER ON PULL BOX AND DUCT BANK REQUIREMENTS.
- EXISTING PAD TO BE REPLACED BY PAD VAULT. COORDINATE WITH RMP ON VAULT REQUIREMENTS.
- INTERCEPT AND INSTALL TRAFFIC RATED BOX FOR DB-5 FEED FROM SOLAR SYSTEM. REINSTALL DUCT BANK AFTER PIPING WORK FOR IRRIGATION PUMP STATION. INSTALL WATERPROOF SPLICES IN THE BOX AND RE-FEED TO INVERTERS FROM THE BOX.

**ELECTRICAL LEGEND**



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|-----|------------|-----|-------------|-------------|
| 1   | 10/09/2026 | LAR |             |             |

DESIGNED  
A. ROGERS  
DRAWN  
D. LEAVITT  
CHECKED  
A. ROGERS  
DATE  
AUGUST 2026



MOUNTAIN REGIONAL WATER SSD

SIGNAL HILL WTP OPTIMIZATION

ELECTRICAL - SITE

SITE PLAN

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.  
203230

DRAWING NO.

01E01

SHEET NO.

OF





PROJECT NO. 203230 FILE NAME: 02E01 Oneline Diagram 1.dwg







Plot Date: 10/12/2026 12:15:09 PM

LAST SAVED BY: daniel leavitt

| CIRCUIT/DESCRIPTION      | KVA | HP | FLA    |
|--------------------------|-----|----|--------|
| MOTOR LOADS              |     |    |        |
| NON-MOTOR LOADS          |     |    |        |
| DP-CHEM                  |     |    | 127.6  |
| DP-MB                    |     |    | 725.0  |
| EX DP-MAIN               |     |    | 785.4  |
| ACTIVE HARMONIC FILTER   |     |    |        |
| SUBTOTAL                 |     |    | 1638.0 |
| + 25% OF LARGEST MOTOR   |     |    | 37.5   |
| TOTAL AMPS @ 480V/3PHASE |     |    | 1675.5 |
| SERVICE SIZE (AMPS)      |     |    | 2000.0 |

SWBD-MAIN CALCULATIONS

| CIRCUIT/DESCRIPTION             | KVA   | HP  | FLA    |
|---------------------------------|-------|-----|--------|
| MOTOR LOADS                     |       |     |        |
| VCP-30-101 MEMBRANE SKID 1      |       | 5.0 | 7.6    |
| VCP-30-201 MEMBRANE SKID 2      |       | 5.0 | 7.6    |
| VCP-30-301 MEMBRANE SKID 3      |       | 5.0 | 7.6    |
| VCP-30-401 MEMBRANE SKID 4      |       | 5.0 | 7.6    |
| FCV-10-218 VALVE                |       | 0.8 | 1.6    |
| FCV-10-219 VALVE                |       | 0.8 | 1.6    |
| FCV-15-001 VALVE                |       | 0.8 | 1.6    |
| FV-60-111 EXISTING VALVE        |       | 0.8 | 1.6    |
| FV-60-112 EXISTING VALVE        |       | 0.8 | 1.6    |
| SOLIDS BELT CONVEYOR CON-60-241 |       | 3.0 | 4.8    |
| NON-MOTOR LOADS                 |       |     |        |
| XFMR-LP-MAIN                    | 45.0  |     | 54.2   |
| MCC-MAIN                        |       |     | 265.2  |
| MCC-GAC                         |       |     | 159.4  |
| CIP HEATER 1                    | 100.0 |     | 120.4  |
| CIP HEATER 2                    | 100.0 |     | 120.4  |
| CL2 GENERATOR                   |       |     | 0.0    |
| LCP-509                         |       |     | 0.0    |
| VCP-60-210 BELT PRESS 1         |       |     | 18.6   |
| VCP-40-970 GAC SUMP SYSTEM      |       |     | 4.0    |
| SUBTOTAL                        |       |     | 785.4  |
| + 25% OF LARGEST MOTOR          |       |     | 6.3    |
| TOTAL AMPS @ 480V/3PHASE        |       |     | 791.7  |
| SERVICE SIZE (AMPS)             |       |     | 1200.0 |
| ***STANDBY EQUIPMENT            |       |     |        |

DP-MAIN (EXISTING) CALCULATIONS

| CIRCUIT/DESCRIPTION                                 | KVA  | HP   | FLA   |
|-----------------------------------------------------|------|------|-------|
| MOTOR LOADS                                         |      |      |       |
| EX. SUMP PUMP #1 PMP-10-301                         |      | 1.0  | 2.1   |
| EX. SUMP PUMP #2 PMP-10-302                         |      | 1.0  | 2.1   |
| EX. PLANT DRAIN PUMP #1 PMP-30-311                  |      | 5.0  | 7.6   |
| EX. PLANT DRAIN PUMP #2 PMP-30-312                  |      | 5.0  | 7.6   |
| STAGE 1 FLOCCULATOR MIX-25-111                      |      | 2.0  | 3.4   |
| STAGE 2 FLOCCULATOR MIX-25-112                      |      | 2.0  | 3.4   |
| STAGE 3 FLOCCULATOR MIX-25-113                      |      | 2.0  | 3.4   |
| STAGE 4 FLOCCULATOR MIX-25-114                      |      | 2.0  | 3.4   |
| STAGE 5 FLOCCULATOR MIX-25-115                      |      | 2.0  | 3.4   |
| ROTARY SCREW COMPRESSOR 1 AC95000A                  | 20.0 |      | 27.0  |
| ROTARY SCREW COMPRESSOR 2 AC95000B                  | 20.0 |      | 27.0  |
| RECYCLE PUMP 1 PMP-10-211                           |      | 5.0  | 7.6   |
| RECYCLE PUMP 2 PMP-10-212                           |      | 5.0  | 7.6   |
| RECYCLE PUMP 3 PMP-10-213                           |      | 5.0  | ***   |
| FLASH MIX PUMP PMP-20-101                           |      | 5.0  | 7.6   |
| THICKENED SLUDGE FEED PUMP NO. 1 PMP-60-151         |      | 10.0 | 14.0  |
| EX. THICKENED SLUDGE TRANSFER PUMP NO. 1 PMP-60-121 |      | 10.0 | 14.0  |
| THICKENED SLUDGE TRANSFER PUMP NO. 2 PMP-60-122     |      | 10.0 | 14.0  |
| EQ BASIN SLUDGE PUMP 1 PMP-60-101                   | 20.0 |      | 27.0  |
| EQ BASIN SLUDGE PUMP 2 PMP-60-102                   | 20.0 |      | 27.0  |
| SIDESTREAM MIXING PUMP PMP-40-221                   | 25.0 |      | 34.0  |
| SOLIDS HOLDING TANK MIXER 1 MIX-60-131              |      | 7.5  | 11.0  |
| SOLIDS HOLDING TANK MIXER 2 MIX-60-141              |      | 7.5  | 11.0  |
| NON-MOTOR LOADS                                     |      |      |       |
| SUBTOTAL                                            |      |      | 265.2 |
| + 25% OF LARGEST MOTOR                              |      |      | 6.8   |
| TOTAL AMPS @ 480V/3PHASE                            |      |      | 272.0 |
| SERVICE SIZE (AMPS)                                 |      |      | 600.0 |
| ***STANDBY EQUIPMENT                                |      |      |       |

MCC-MAIN CALCULATIONS

| CIRCUIT/DESCRIPTION             | KVA  | HP  | FLA   |
|---------------------------------|------|-----|-------|
| MOTOR LOADS                     |      |     |       |
| NON-MOTOR LOADS                 |      |     |       |
| XFMR-LP-CHEM                    | 45.0 |     | 54.2  |
| MCC-CHEM                        |      |     | 20.0  |
| CHEM BDG UNIT HEATER EUH-70-971 | 20.0 |     | 24.1  |
| CHEM BDG UNIT HEATER EUH-70-972 | 20.0 |     | 24.1  |
| DOOR OPENER DOOR-105-03         |      | 3.3 | 5.2   |
| SUBTOTAL                        |      |     | 127.6 |
| + 25% OF LARGEST MOTOR          |      |     | 1.3   |
| TOTAL AMPS @ 480V/3PHASE        |      |     | 128.9 |
| SERVICE SIZE (AMPS)             |      |     | 800.0 |
| ***STANDBY EQUIPMENT            |      |     |       |

DP-CHEM CALCULATIONS

| CIRCUIT/DESCRIPTION                           | KVA | HP  | FLA   |
|-----------------------------------------------|-----|-----|-------|
| MOTOR LOADS                                   |     |     |       |
| SODIUM HYPOCHLORITE TRANSFER PUMP PMP-70-131  |     | 0.8 | 1.6   |
| CHEMICAL BUILDING MAKE-UP AIR UNIT MAU-70-951 |     | 7.5 | 11.0  |
| CHEMICAL BUILDING EXHAUST FAN EXH-70-961      |     | 2.0 | 3.4   |
| NON-MOTOR LOADS                               |     |     |       |
| VCP-70-970                                    |     |     | 4.0   |
| SUBTOTAL                                      |     |     | 20.0  |
| + 25% OF LARGEST MOTOR                        |     |     | 2.8   |
| TOTAL AMPS @ 480V/3PHASE                      |     |     | 22.8  |
| SERVICE SIZE (AMPS)                           |     |     | 200.0 |
| ***STANDBY EQUIPMENT                          |     |     |       |

MCC-CHEM CALCULATIONS

| CIRCUIT/DESCRIPTION          | KVA | HP    | FLA    |
|------------------------------|-----|-------|--------|
| MOTOR LOADS                  |     |       |        |
| MF BACKWASH PUMP 1 P36000A   |     | 75.0  | 96.0   |
| MF BACKWASH PUMP 2 P36000B   |     | 75.0  | ***    |
| MF CIP PUMP 1 P37000A        |     | 60.0  | 77.0   |
| MF CIP PUMP 2 P37000B        |     | 60.0  | ***    |
| MF FEED PUMP 1 PMP-30-011    |     | 150.0 | 180.0  |
| MF FEED PUMP 2 PMP-30-012    |     | 150.0 | 180.0  |
| MF FEED PUMP 3 PMP-30-013    |     | 150.0 | ***    |
| IRRIGATION PUMP 1 PMP-15-111 |     | 75.0  | 96.0   |
| IRRIGATION PUMP 2 PMP-15-112 |     | 75.0  | 96.0   |
| IRRIGATION PUMP 3 PMP-15-113 |     | 75.0  | ***    |
| NON-MOTOR LOADS              |     |       |        |
| SUBTOTAL                     |     |       | 725.0  |
| + 25% OF LARGEST MOTOR       |     |       | 24.0   |
| TOTAL AMPS @ 480V/3PHASE     |     |       | 749.0  |
| SERVICE SIZE (AMPS)          |     |       | 1200.0 |
| ***STANDBY EQUIPMENT         |     |       |        |

DP-MB CALCULATIONS

| CIRCUIT/DESCRIPTION            | KVA  | HP   | FLA   |
|--------------------------------|------|------|-------|
| MOTOR LOADS                    |      |      |       |
| GAC FEED PUMP NO. 1 PMP-40-111 |      | 25.0 | 34.0  |
| GAC FEED PUMP NO. 2 PMP-40-121 |      | 25.0 | 34.0  |
| EXHAUST FAN NO. 7 EF-7         |      | 0.8  | 1.6   |
| EXHAUST FAN NO. 8 EF-8         |      | 0.8  | 1.6   |
| GAC BACKWASH PUMP PMP-40-011   |      | 25.0 | 34.0  |
| GAC FEED NO. 3 PUMP PMP-40-131 |      | 25.0 | 34.0  |
| EXHAUST FAN EXH-40-951         |      | 1.0  | 2.1   |
| NON-MOTOR LOADS                |      |      |       |
| XFMR-LP-GAC                    | 15.0 |      | 18.1  |
| UNIT HEATER EUH-40-961         | 7.5  |      | 9.0   |
| UNIT HEATER EUH-40-962         | 7.5  |      | 9.0   |
| SUBTOTAL                       |      |      | 159.4 |
| + 25% OF LARGEST MOTOR         |      |      | 8.5   |
| TOTAL AMPS @ 480V/3PHASE       |      |      | 167.9 |
| SERVICE SIZE (AMPS)            |      |      | 200.0 |
| ***STANDBY EQUIPMENT           |      |      |       |

MCC-GAC (EXISTING) CALCULATIONS

SCHEDULES 1



MOUNTAIN REGIONAL WATER SSD

SIGNAL HILL WTP OPTIMIZATION

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SCHEDULES 1



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VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.  
203230

DRAWING NO.  
03E01

SHEET NO.  
OF



Plot Date: 10/9/2026 5:37:54 PM

A

B

C

D

E

F

G

A

B

C

D

E

F

G

| PANEL: LP-MAIN                         |      | VOLTAGE: 120/208<br>BUS A.I.C: 22KA |        | MAIN CB: 100 AMP<br>BKR AIC: 22KA |        | BUS AMPS: 200 AMP<br>MOUNTING: SURFACE |      |                         |
|----------------------------------------|------|-------------------------------------|--------|-----------------------------------|--------|----------------------------------------|------|-------------------------|
| CIRCUIT DESCRIPTION                    | BKR  | CIRCUIT                             | LOAD   | PHASE                             | LOAD   | CIRCUIT                                | BKR  | CIRCUIT DESCRIPTION     |
| SOUTH SIDE TRANSMITTER REC             | 20/1 | 1                                   | 120    | A                                 |        | 2                                      | 20/1 | SPARE                   |
| BRAWDT COMP                            | 20/1 | 3                                   | 540    | B                                 |        | 4                                      | 20/1 | SPARE                   |
| ACH PUMPS                              | 20/1 | 5                                   | 450    | C                                 | 700    | 6                                      | 20/1 | VCP-60-311              |
| BLOWER FANS                            | 20/1 | 7                                   | 1166   | A                                 |        | 8                                      | 20/1 | SPARE                   |
| SLUDGE M-17                            | 20/1 | 9                                   | 700    | B                                 |        | 10                                     | 20/1 | SPARE                   |
| SLUDGE M21                             | 20/1 | 11                                  | 700    | C                                 | 700    | 12                                     | 20/1 | PMP-30-501              |
| ACH PUMPS                              | 20/1 | 13                                  | 750    | A                                 |        | 14                                     | 20/1 | SPARE                   |
| LIGHTS                                 | 20/1 | 15                                  | 720    | B                                 |        | 16                                     | 20/1 | SPARE                   |
| LIGHTS                                 | 20/1 | 17                                  | 720    | C                                 |        | 18                                     | 20/1 | SPARE                   |
| LIGHTS                                 | 20/1 | 19                                  | 720    | A                                 | 500    | 20                                     | 20/1 | GENERATOR               |
| LIGHTS                                 | 20/1 | 21                                  | 720    | B                                 | 500    | 22                                     | 20/1 | GENERATOR               |
| ACH DIFF PUMP                          | 20/1 | 23                                  | 450    | C                                 | 500    | 24                                     | 20/1 | RADIO 4 WAY/COM PLC     |
| MAIN                                   | 20/1 | 25                                  | 500    | A                                 | 540    | 26                                     | 20/1 | SERVER RM OUTLETS       |
| MAIN                                   | 20/1 | 27                                  | 500    | B                                 | 540    | 28                                     | 20/1 | SERVER RM OUTLETS       |
| MAIN                                   | 20/1 | 29                                  | 500    | C                                 | 720    | 30                                     | 20/1 | SERVER RM LTS + OUTLETS |
| LAB OUTLETS FRIDGE                     | 20/1 | 31                                  | 540    | A                                 |        | 32                                     | 20/1 |                         |
| LAB OUTLETS DISPOSAL                   | 20/1 | 33                                  | 540    | B                                 | 540    | 34                                     | 20/1 | LAB OUTLETS             |
| LAB OUTLETS DISHWASHER                 | 20/1 | 35                                  | 540    | C                                 |        | 36                                     | 20/1 |                         |
|                                        | 20/1 | 37                                  |        | A                                 |        | 38                                     | 20/1 |                         |
|                                        | 20/1 | 39                                  |        | B                                 |        | 40                                     | 20/1 |                         |
|                                        | 20/1 | 41                                  |        | C                                 |        | 42                                     | 20/1 | SPACE                   |
| CONNECTED VA PER PHASE                 |      | 4836.0                              | 5300.0 | 5980.0                            | NOTES: |                                        |      |                         |
| CONNECTED AMPS PER PHASE               |      | 40.3                                | 44.2   | 49.8                              |        |                                        |      |                         |
| 25% OF CONTINUOUS & LIGHTING LOAD (VA) |      | 1209.0                              | 1325.0 | 1495.0                            |        |                                        |      |                         |
| CODE VA PER PHASE                      |      | 6045.0                              | 6625.0 | 7475.0                            |        |                                        |      |                         |
| CODE AMPS PER PHASE                    |      | 50.4                                | 55.2   | 62.3                              |        |                                        |      |                         |

LP-MAIN (EXISTING) CALCULATIONS

| PANEL: LP-MAIN-1                         |      | VOLTAGE: 120/208<br>BUS A.I.C: 22KA |         | MAIN CB: 100 AMP<br>BKR AIC: 22KA |        | BUS AMPS: 200 AMP<br>MOUNTING: SURFACE |      |                                            |
|------------------------------------------|------|-------------------------------------|---------|-----------------------------------|--------|----------------------------------------|------|--------------------------------------------|
| CIRCUIT DESCRIPTION                      | BKR  | CIRCUIT                             | LOAD    | PHASE                             | LOAD   | CIRCUIT                                | BKR  | CIRCUIT DESCRIPTION                        |
| EQUIPMENT RM RECPT & LIGHTS              | 20/1 | 1                                   | 540     | A                                 | 720    | 2                                      | 20/1 | LOW BAY LIGHTS                             |
| BATHROOM GFCI & LIGHTS                   | 20/1 | 3                                   | 100     | B                                 | 720    | 4                                      | 20/1 | LOW BAY LIGHTS                             |
| FIRE ALARM PANEL                         | 20/1 | 5                                   | 720     | C                                 | 540    | 6                                      | 20/1 | NORTH LIGHTS                               |
| AIR COMPRESSOR SPRINKLER SYSTEM          | 20/1 | 7                                   | 1440    | A                                 | 540    | 8                                      | 20/1 | SOUTH LIGHTS                               |
| AIR COMPRESSOR SPRINKLER SYSTEM          | 20/1 | 9                                   | 1440    | B                                 | 600    | 10                                     | 20/1 | WATER HEATER EXHAUST BLOWER                |
| AIR COMPRESSOR SPRINKLER SYSTEM          | 20/1 | 11                                  | 1440    | C                                 | 180    | 12                                     | 20/1 | LOWER PIT LIGHTS                           |
| NORTH OUTLETS                            | 20/1 | 13                                  | 540     | A                                 | 0      | 14                                     | 20/1 | TVSS                                       |
| SOUTH OUTLETS                            | 20/1 | 15                                  | 540     | B                                 | 0      | 16                                     | 20/1 | TVSS                                       |
| LCP 514                                  | 20/1 | 17                                  | 720     | C                                 | 0      | 18                                     | 20/1 | TVSS                                       |
| CEILING FANS/LCP-509C                    | 20/1 | 19                                  | 720     | A                                 | 540    | 20                                     | 20/1 | WET WELL AREA OUTLETS / GALLEY TURB METERS |
| OFFICE OUTLETS SOUTH WALL                | 20/1 | 21                                  | 540     | B                                 | 500    | 22                                     | 20/1 | EXHAUST FAN PNL LCP-509A                   |
| OFFICE OUTLETS FRIDGE/KITCHEN COUNTER    | 20/1 | 23                                  | 540     | C                                 | 600    | 24                                     | 20/1 | FURNACE                                    |
| OFFICE OUTLETS EAST WALL KITCHEN COUNTER | 20/1 | 25                                  | 540     | A                                 | 1800   | 26                                     | 20/1 | AC CONDENSER                               |
| OFFICE OUTLETS / LIGHTS                  | 20/1 | 27                                  | 540     | B                                 | 1800   | 28                                     | 20/1 | AC CONDENSER                               |
| ELECTRIC RM LIGHTS                       | 20/1 | 29                                  | 540     | C                                 | 720    | 30                                     | 20/1 | LCP 400                                    |
| OUTLETS LOWER PIT, RAW TURB METER        | 20/1 | 31                                  | 200     | A                                 | 500    | 32                                     | 20/1 | INSTRUMENT PNL LCP-406                     |
| UNIT HEATERS LCP-509B                    | 20/1 | 33                                  | 720     | B                                 | 540    | 34                                     | 20/1 | 3 MILE TANK VAULT, LAB OUTLETS             |
| IRRIGATION POND FLOW METER - FIT-517     | 20/1 | 35                                  | 200     | C                                 | 500    | 36                                     | 20/1 | PLC                                        |
| GARAGE DOOR                              | 20/1 | 37                                  | 40      | A                                 | 500    | 38                                     | 20/1 | BACK-UP LOGIC PNL                          |
| MOTORIZED VALVES                         | 20/1 | 39                                  | 480     | B                                 | 500    | 40                                     | 20/1 | SKID D                                     |
| MEMBRANE FEED FLOW METER - FIT-461       | 20/1 | 41                                  | 200     | C                                 |        | 42                                     | 20/1 | SPACE                                      |
| CONNECTED VA PER PHASE                   |      | 8620.0                              | 9020.0  | 6900.0                            | NOTES: |                                        |      |                                            |
| CONNECTED AMPS PER PHASE                 |      | 71.8                                | 75.2    | 57.5                              |        |                                        |      |                                            |
| 25% OF CONTINUOUS & LIGHTING LOAD (VA)   |      | 2155.0                              | 2255.0  | 1725.0                            |        |                                        |      |                                            |
| CODE VA PER PHASE                        |      | 10775.0                             | 11275.0 | 8625.0                            |        |                                        |      |                                            |
| CODE AMPS PER PHASE                      |      | 89.8                                | 94.0    | 71.9                              |        |                                        |      |                                            |

LP-MAIN-1 (EXISTING) CALCULATIONS

| PANEL: LP-CHEM                         |      | VOLTAGE: 120/208<br>BUS A.I.C: 22KA |         | MAIN CB: 200 AMP<br>BKR AIC: 22KA |        | BUS AMPS: 200 AMP<br>MOUNTING: SURFACE |      |                             |
|----------------------------------------|------|-------------------------------------|---------|-----------------------------------|--------|----------------------------------------|------|-----------------------------|
| CIRCUIT DESCRIPTION                    | BKR  | CIRCUIT                             | LOAD    | PHASE                             | LOAD   | CIRCUIT                                | BKR  | CIRCUIT DESCRIPTION         |
| VCP-70-121                             | 20/1 | 1                                   | 600     | A                                 | 600    | 2                                      | 20/1 | VCP-70-122                  |
| VCP-70-123                             | 20/1 | 3                                   | 600     | B                                 | 600    | 4                                      | 20/1 | VCP-70-124                  |
| VCP-70-125                             | 20/1 | 5                                   | 600     | C                                 | 600    | 6                                      | 20/1 | VCP-70-221                  |
| VCP-70-222                             | 20/1 | 7                                   | 600     | A                                 | 600    | 8                                      | 20/1 | VCP-70-321                  |
| VCP-70-322                             | 20/1 | 9                                   | 600     | B                                 | 600    | 10                                     | 20/1 | VCP-70-323                  |
| VCP-70-324                             | 20/1 | 11                                  | 600     | C                                 | 600    | 12                                     | 20/1 | VCP-70-421                  |
| VCP-70-422                             | 20/1 | 13                                  | 600     | A                                 | 600    | 14                                     | 20/1 | VCP-70-521                  |
| VCP-70-522                             | 20/1 | 15                                  | 600     | B                                 | 600    | 16                                     | 20/1 | VCP-70-621                  |
| VCP-70-622                             | 20/1 | 17                                  | 600     | C                                 | 600    | 18                                     | 20/1 | VCP-70-721                  |
| VCP-70-722                             | 20/1 | 19                                  | 600     | A                                 | 600    | 20                                     | 20/1 | VCP-70-921                  |
| VCP-70-922                             | 20/1 | 21                                  | 600     | B                                 | 1000   | 22                                     | 20/1 | PCM-CHEM                    |
| UPS-CHEM                               | 20/1 | 23                                  | 1500    | C                                 | 600    | 24                                     | 20/1 | HEAT TRACE TO ESW-70-989    |
| CHEM ROOM LIGHTING                     | 20/1 | 25                                  | 1050    | A                                 | 200    | 26                                     | 20/1 | ELECTRICAL ROOM LIGHTING    |
| EUH-70-981                             | 20/1 | 27                                  | 1500    | B                                 | 250    | 28                                     | 20/1 | MECHANICAL ROOM LIGHTING    |
| EUH-70-982                             | 20/1 | 29                                  | 1500    | C                                 | 350    | 30                                     | 20/1 | CHLORINE DIOXIDE LIGHTING   |
| CHEM ROOM RECEPTACLES                  | 20/1 | 31                                  | 1260    | A                                 | 2300   | 32                                     | 20/2 | HP-70-981                   |
| HP-70-983                              | 20/2 | 33                                  | 2300    | B                                 | 2300   | 34                                     |      | HP-70-981                   |
| HP-70-983                              |      | 35                                  | 2300    | C                                 | 2300   | 36                                     | 20/2 | HP-70-982                   |
| ELECTRICAL ROOM RECEPTACLES            | 20/1 | 37                                  | 540     | A                                 | 2300   | 38                                     |      | HP-70-982                   |
| MECHANICAL ROOM RECEPTACLES            | 20/1 | 39                                  | 360     | B                                 | 360    | 40                                     | 20/1 | CL DIOXIDE ROOM RECEPTACLES |
| EXIT LIGHTS                            | 20/1 | 41                                  | 200     | C                                 | 350    | 42                                     | 20/1 | OUTDOOR LIGHTING            |
|                                        | 20/1 | 43                                  |         | A                                 |        | 44                                     | 20/1 |                             |
|                                        | 20/1 | 45                                  |         | B                                 |        | 46                                     | 20/1 |                             |
|                                        | 20/1 | 47                                  |         | C                                 |        | 48                                     | 20/1 |                             |
|                                        | 20/1 | 49                                  |         | A                                 |        | 50                                     | 20/1 |                             |
|                                        | 20/1 | 51                                  |         | B                                 |        | 52                                     | 20/1 |                             |
|                                        | 20/1 | 53                                  |         | C                                 |        | 54                                     | 20/1 |                             |
| CONNECTED VA PER PHASE                 |      | 12450.0                             | 12270.0 | 12700.0                           | NOTES: |                                        |      |                             |
| CONNECTED AMPS PER PHASE               |      | 103.8                               | 102.3   | 105.8                             |        |                                        |      |                             |
| 25% OF CONTINUOUS & LIGHTING LOAD (VA) |      | 3112.5                              | 3067.5  | 3175.0                            |        |                                        |      |                             |
| CODE VA PER PHASE                      |      | 15562.5                             | 15337.5 | 15875.0                           |        |                                        |      |                             |
| CODE AMPS PER PHASE                    |      | 129.7                               | 127.8   | 132.3                             |        |                                        |      |                             |

LP-CHEM CALCULATIONS

SCHEDULES 2



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Bountiful, Utah 84010  
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SCHEDULES 2

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0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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DRAWING NO.

03E02

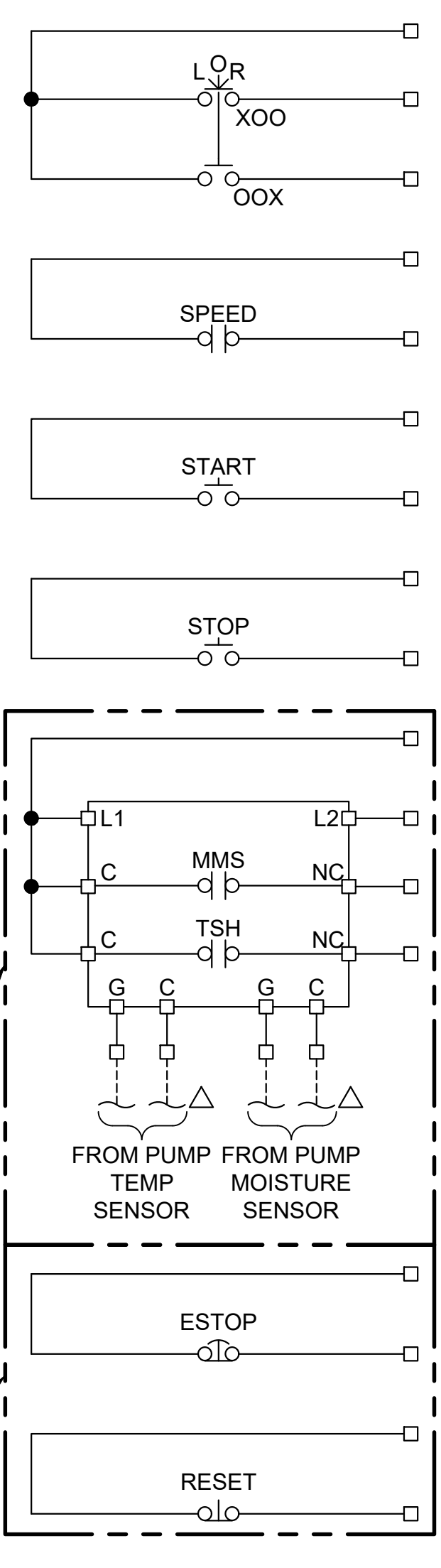
SHEET NO.

OF



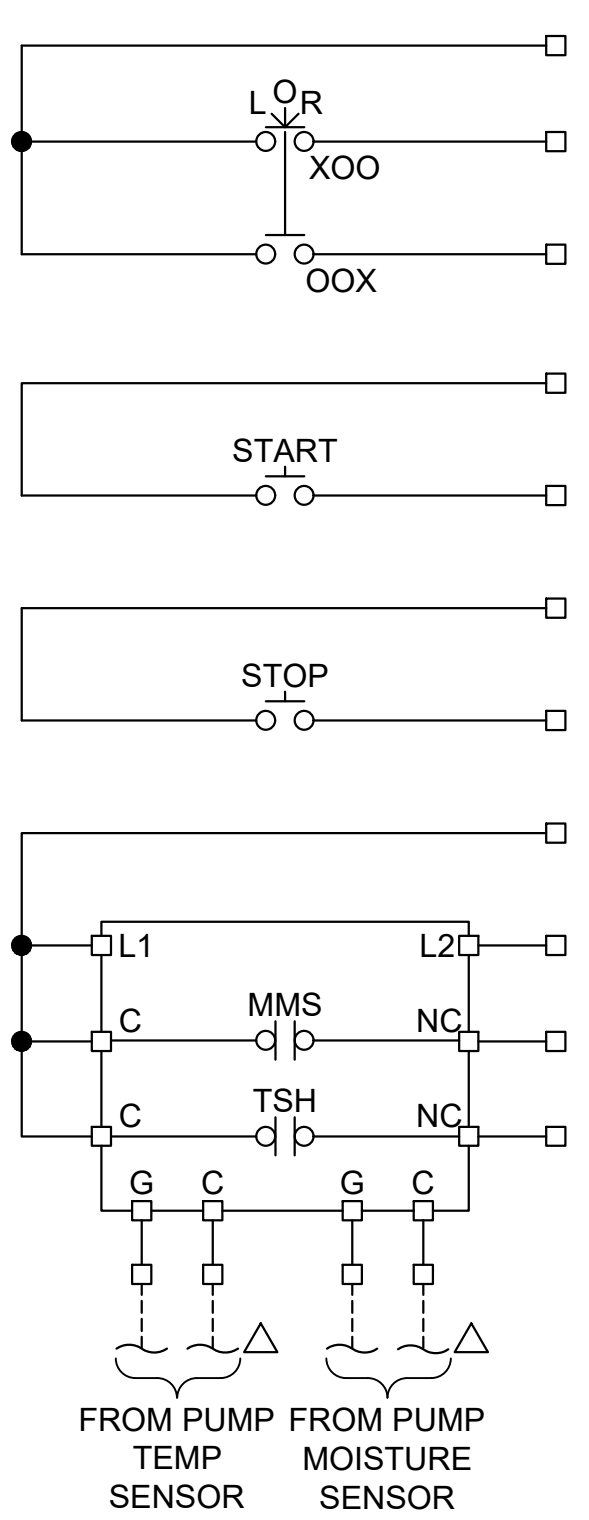
Plot Date: 10/9/2026 5:47:16 PM

LAST SAVED BY: daniel leavitt



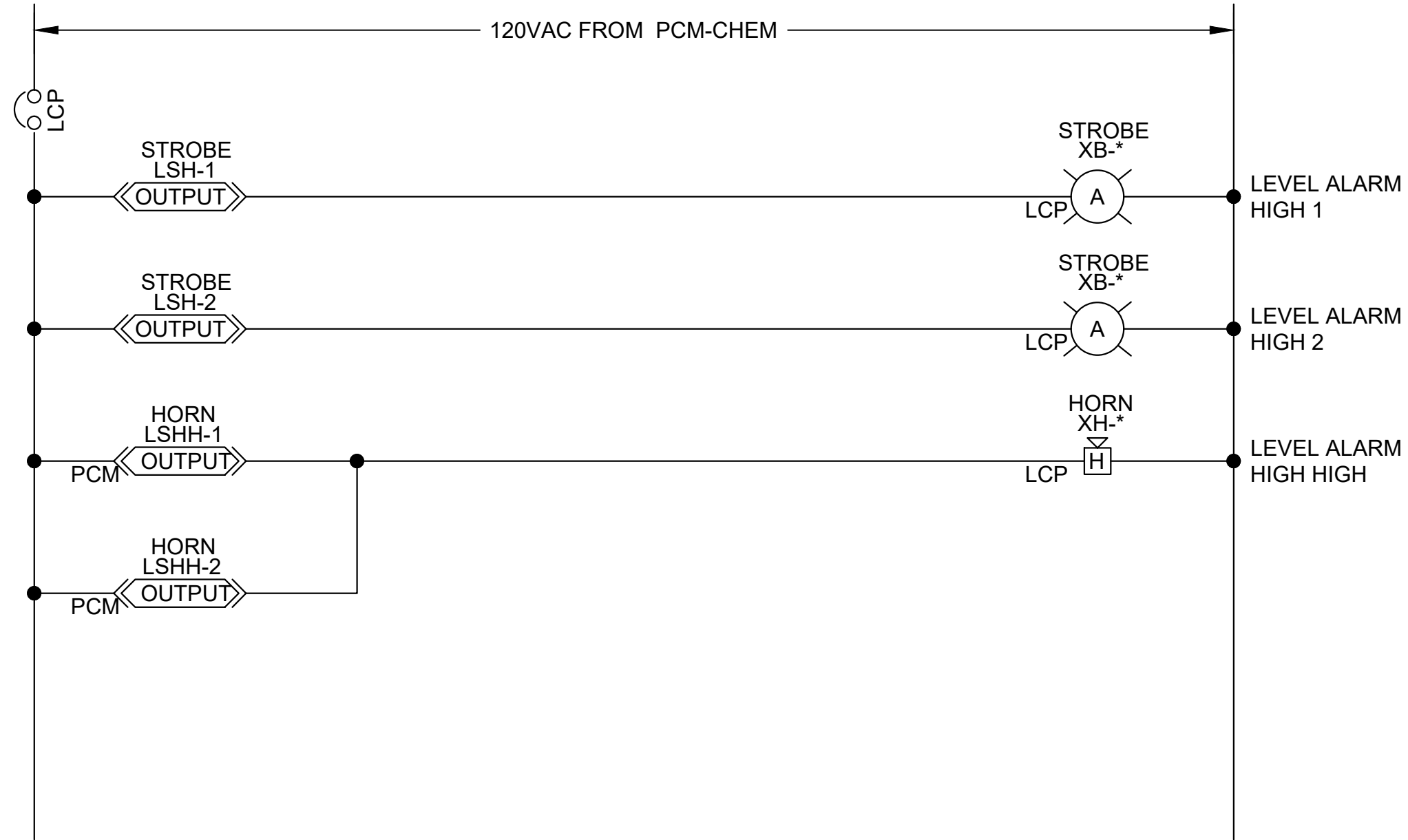
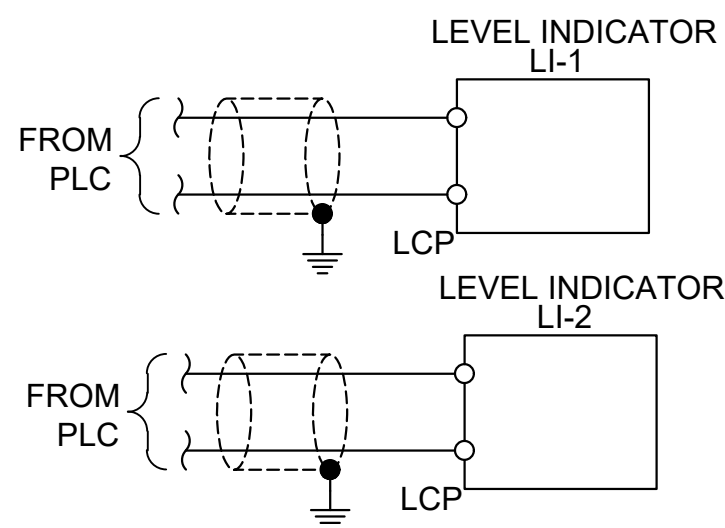
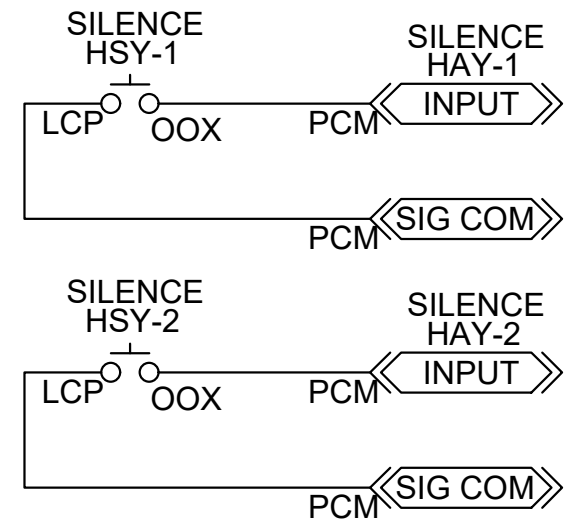
### LCP SCHEMATIC

TYPICAL FOR:  
IRRIGATION PUMPS LCP-15-111  
STAGE 1-5 FLOCCULATOR LCP-25-111  
MF BACKWASH PUMP LCP-36000A, LCP-36000B  
MF CIP PUMP LCP-37000A, LCP-37000B  
GAC BACKWASH PUMP LCP-40-011  
GAC FEED NO. 3 FEED PUMP LCP-40-131  
THICKENED SLUDGE FEED PUMP LCP-60-151



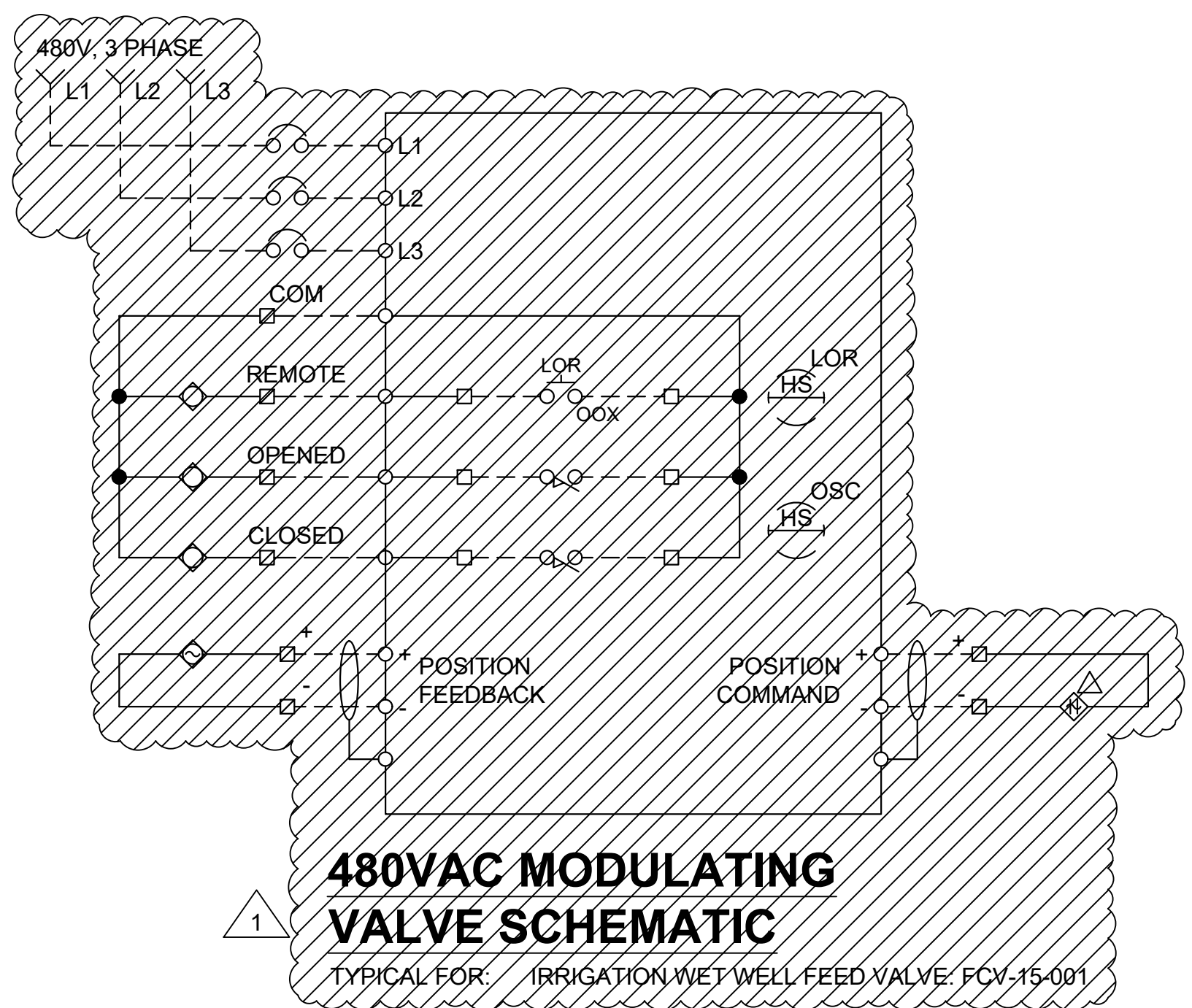
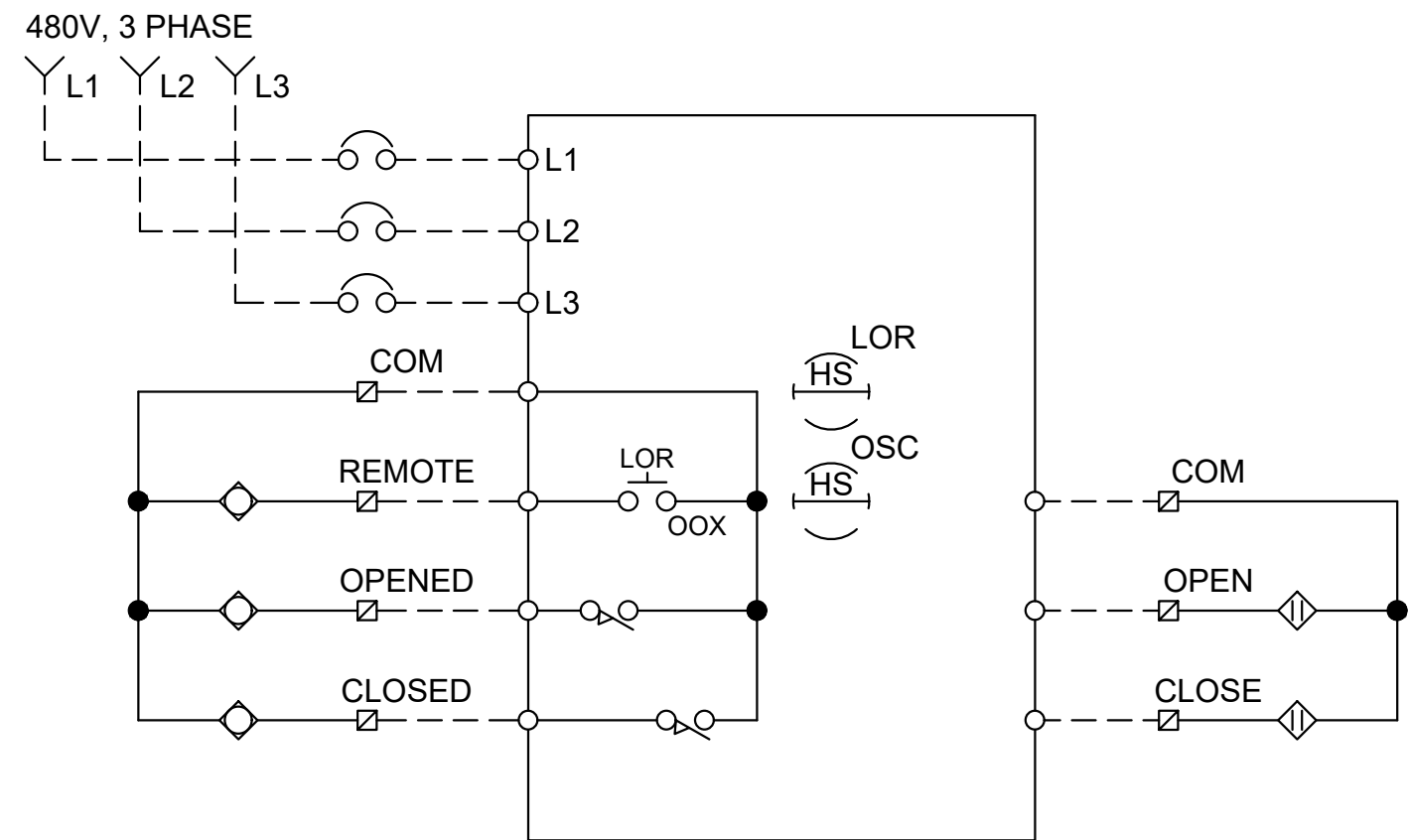
### LCP SCHEMATIC

TYPICAL FOR:  
FLASH MIX PUMP LCP-20-101  
SOLIDS HOLDING TANK MIXER LCP-60-131, LCP-60-141  
SOLIDS BELT CONVEYOR: LCP-60-241



### CHEMICAL FILL LCP SCHEMATIC

TYPICAL FOR:  
LCP-70-102, LCP-70-202 & LCP-70-302



### 480VAC VALVE SCHEMATIC

TYPICAL FOR: (RECYCLE FLOW VALVE)FCV-10-218  
RAW WATER INTAKE FEED VALVE: FCV-10-219  
MEMBRANE FEED VALVES: FV-25-216, FV-25-226  
IRRIGATION WET WELL FEED VALVE: FV-15-001

### GENERAL NOTES

1. TYPICAL SCHEMATIC DIAGRAMS ARE INTENDED TO REFLECT THE GENERAL CONTROL STRATEGY. ACTUAL CIRCUITRY MAY VARY FOR SPECIFIC EQUIPMENT SUPPLIED. THE NUMBER AND TYPE OF DEVICES SHALL BE FURNISHED AS REQUIRED FOR PROPER OPERATION OF THE EQUIPMENT.
2. FUSES SHALL BE ADEQUATELY SIZED PER THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
3. ADJUST TIME DELAY RELAYS PRIOR TO STARTUP. STAGGER TIMER SETTINGS FOR POWER ON-DELAY RELAYS.
4. CONTROL SWITCHES SHALL BE DOOR MOUNTED ON THEIR RESPECTIVE PANELS. DEVICES SHALL BE RATED FOR LINE VOLTAGE AND 125% OF LOAD CURRENT.

### KEY NOTES

1. CONTROL POWER TRANSFORMERS (CPT) SHALL BE ADEQUATELY SIZED AND SHALL BE PROVIDED WITH PROPERLY SIZED FUSES FOR BOTH THE PRIMARY AND SECONDARY WINDINGS.
2. LOCAL CONTROLS SHALL BE INSTALLED ACCORDING TO P&ID'S AND NOT NECESSARILY AS SHOWN ON SCHEMATICS. SEE LCP SCHEMATICS AND CONDUIT SCHEDULE FOR EXACT WIRING.

| 1   | 10/09/2026 | LAR | BID ADDENDA |
|-----|------------|-----|-------------|
| REV | DATE       | BY  | DESCRIPTION |
|     |            |     |             |
|     |            |     |             |
|     |            |     |             |

|                       |
|-----------------------|
| DESIGNED<br>A. ROGERS |
| DRAWN<br>D. LEAVITT   |
| CHECKED<br>A. ROGERS  |
| DATE<br>AUGUST 2026   |



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SCHEMATIC 4



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|                                                                                                                                                     |               |            |                                |             |                       |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|--------------------------------|-------------|-----------------------|--------------------------------|---|---------------------------------|---|------------------------------|------------------------------------------------------------------------------------------------|---|---|--|---|---|---|--|----|---|----|--|----|---|----|--|--|---|--|--|--|---|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|--|--|--|--|
| A                                                                                                                                                   | 1             |            | 2                              |             | 3                     |                                | 4 |                                 | 5 |                              | 6                                                                                              |   | 7 |  | 8 |   | 9 |  | 10 |   | 11 |  | 12 |   | 13 |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | POWER CONDUIT |            |                                |             |                       |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | CONDUIT       | SIZE       | CONDUCTORS                     |             | SERVICE               | FROM                           |   | TO                              |   | DUCTBANKS                    | NOTES                                                                                          |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P001          |            | EXISTING                       |             | 480 VAC               | UTILITY (EXISTING)             |   | UTILITY TRANSFORMER (EXISTING)  |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P002          | 6 - 4"     | 6 SETS OF 4-500 MCM W/ 1/0 GND |             | 480 VAC               | UTILITY TRANSFORMER (EXISTING) |   | SES                             |   | DB-UTILITY                   |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P003          | 6 - 4"     | 6 SETS OF 4-500 MCM W/ 1/0 GND |             | 480 VAC               | SES                            |   | ATS                             |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P004          |            | EXISTING                       |             | 480 VAC               | SES                            |   | EXISTING SOLAR FUSED DISCONNECT |   | DB-4 (EX)                    |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P005          | 4 - 4"     | 4 SETS OF 4-350 MCM W/ 1/0 GND |             | 480 VAC               | ATS                            |   | STANDBY GENERATOR (EXISTING)    |   | DB-2 (EX)                    |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P006          | 6 - 4"     | 6 SETS OF 4-500 MCM W/ 1/0 GND |             | 480 VAC               | ATS                            |   | SWBD-MAIN                       |   | DB-9                         |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P007          | 1 - 3"     | 1 SET OF 3-4/0 W/ #2 GND       |             | 480 VAC               | SWBD-MAIN                      |   | ACTIVE HARMONIC FILTER          |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
| B                                                                                                                                                   | P008          | 3 - 4"     | 3 SETS OF 3-350 MCM W/ 1/0 GND |             | 480 VAC               | SWBD-MAIN                      |   | DP-CHEM                         |   | DB-70                        |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P009          | 4 - 4"     | 4 SETS OF 3-350 MCM W/ 3/0 GND |             | 480 VAC               | SWBD-MAIN                      |   | DP-MB                           |   | DB-40                        |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P010          | 4 - 4"     | 4 SETS OF 4-350 MCM W/ 3/0 GND |             | 480 VAC               | SWBD-MAIN                      |   | DP-MAIN (EXISTING)              |   | DB-6 (EX)                    |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P011          |            | EXISTING                       |             | 480 VAC               | DP-MAIN (EXISTING)             |   | MCC-MAIN                        |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P012          |            | EXISTING                       |             | 480 VAC               | DP-MAIN (EXISTING)             |   | XFMR-LP-MAIN (EXISTING)         |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P012A         |            | EXISTING                       |             | 120/208 VAC           | XFMR-LP-MAIN (EXISTING)        |   | LP-MAIN (EXISTING)              |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P012B         |            | EXISTING                       |             | 120/208 VAC           | XFMR-P-MAIN (EXISTING)         |   | LP-MAIN-1 (EXISTING)            |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P013          |            | EXISTING                       |             | 480 VAC               | DP-MAIN (EXISTING)             |   | TVSS CLASS C                    |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P014          |            | EXISTING                       |             | 480 VAC               | DP-MAIN (EXISTING)             |   | MCC-GAC (EXISTING)              |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P015          |            | EXISTING                       |             | 480 VAC               | DP-MAIN (EXISTING)             |   | CL2 GENERATOR (EXISTING)        |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
| C                                                                                                                                                   | P016          |            | EXISTING                       |             | 480 VAC               | DP-MAIN (EXISTING)             |   | LCP-509 (EXISTING)              |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P017          | 3"         | 3 3/0 W/ #6 GND                |             | 480 VAC               | DP-CHEM                        |   | MCC-CHEM                        |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P018          | 2"         | 3 #1 W/ #6 GND                 |             | 480 VAC               | DP-CHEM                        |   | XFMR-LP-CHEM                    |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P019          | 2"         | 4 #1 W/ #6 GND                 |             | 120/208 VAC           | XFMR-LP-CHEM                   |   | LP-CHEM                         |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P020          | 1"         | 3 #12 W/ #12 GND               |             | 480 VAC               | MCC-GAC (EXISTING)             |   | DISC-EF-7 (EXISTING)            |   |                              | THRU 480 VAC CABLE TRAY - GAC BUILDING                                                         |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P020A         | 1"         | 3 #12 W/ #12 GND               |             | 480 VAC               | DISC-EF-7 (EXISTING)           |   | EF-7 (EXISTING)                 |   |                              | THRU 480 VAC CABLE TRAY - GAC BUILDING                                                         |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P021          | 1"         | 3 #12 W/ #12 GND               |             | 480 VAC               | MCC-GAC (EXISTING)             |   | DISC-EF-8 (EXISTING)            |   |                              | THRU 480 VAC CABLE TRAY - GAC BUILDING                                                         |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P021A         | 1"         | 3 #12 W/ #12 GND               |             | 480 VAC               | DISC-EF-8 (EXISTING)           |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P022          | 1"         | 2 #12 W/ #12 GND               |             | 120 VAC               | LP-MAIN (EXISTING)             |   | NIP-MAIN (EXISTING)             |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P023          | 1"         | 2 #12 W/ #12 GND               |             | 120 VAC               | LP-CHEM                        |   | NIP-CHEM                        |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
| D                                                                                                                                                   | P024          | 2 - 3"     | 2 PR 3 3/0 W/ #6 GND           |             | 480 VAC               | DP-MAIN                        |   | TEMP SKID 1                     |   | DB-TEMP SKIDS                |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P025          | 2 - 3"     | 2 PR 3 3/0 W/ #6 GND           |             | 480 VAC               | DP-MAIN                        |   | TEMP SKID 2                     |   | DB-TEMP SKIDS                |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P026          | 1"         | 3 #10 W/ #10 GND               |             | 480 VAC               | MCC-TP SECTION (EXISTING)      |   | TEMP MEBRANE FEED PUMP 1        |   | DB-TEMP SKIDS/ DP-TEMP PUMPS | THROUGH PB-DB-TEMP SKIDS                                                                       |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P027          | 1"         | 3 #10 W/ #10 GND               |             | 480 VAC               | MCC-TP SECTION (EXISTING)      |   | TEMP MEBRANE FEED PUMP 2        |   | DB-TEMP SKIDS/ DP-TEMP PUMPS | THROUGH PB-DB-TEMP SKIDS                                                                       |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P028          | 1"         | 3 #10 W/ #10 GND               |             | 480 VAC               | MCC-TP SECTION (EXISTING)      |   | TEMP MEBRANE FEED PUMP 3        |   | DB-TEMP SKIDS/ DP-TEMP PUMPS | THROUGH PB-DB-TEMP SKIDS                                                                       |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P029          | 1"         | 3 #12 W/ #12 GND               |             | 480 VAC               | DP-CHEM                        |   | DOOR 105-03 OPENOR              |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P10011        | 1"         | 2 #12 W/ #12 GND               |             | 120 VAC               | PCM-MAIN (EXISTING)            |   | FIT-10-011                      |   |                              | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P10101        | 1"         | 2 #12 W/ #12 GND               |             | 120 VAC               | PCM-MAIN (EXISTING)            |   | FIT-10-101                      |   |                              | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P10111        |            | EXISTING                       |             | 120 VAC               | PCM-MAIN (EXISTING)            |   | AIT-10-111 (EXISTING)           |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P10112        |            | EXISTING                       |             | 120 VAC               | PCM-MAIN (EXISTING)            |   | AIT-10-112 (EXISTING)           |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
| E                                                                                                                                                   | P10211        | 1"         | 3 #12 W/ #12 GND               |             | 480 VAC               | MCC-MAIN                       |   | PMP-10-211                      |   |                              | THRU 480 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P10212        | 1"         | 3 #12 W/ #12 GND               |             | 480 VAC               | MCC-MAIN                       |   | PMP-10-212                      |   |                              | THRU 480 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P10213        | 1"         | 3 #12 W/ #12 GND               |             | 480 VAC               | MCC-MAIN                       |   | PMP-10-213                      |   |                              | THRU 480 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P10218        | 1"         | 3 #12 W/ #12 GND               |             | 480 VAC               | DP-MAIN (EXISTING)             |   | DISC-10-218                     |   |                              | THRU 480 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P10218A       | 1"         | 3 #12 W/ #12 GND               |             | 480 VAC               | DISC-10-218                    |   | FV-10-218                       |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P10218B       |            | EXISTING                       |             | 120 VAC               | PCM-MAIN (EXISTING)            |   | FIT-10-218 (EXISTING)           |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P10219        | 1"         | 3 #12 W/ #12 GND               |             | 480 VAC               | DP-MAIN (EXISTING)             |   | DISC-10-219                     |   |                              | ATTEMPT TO REUSE EXISTING CONDUIT, OTHERWISE THRU 480 VAC CABLE TRAY - MAIN TREATMENT BUILDING |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P10219A       | 1"         | 3 #12 W/ #12 GND               |             | 480 VAC               | DISC-10-219                    |   | FV-10-219                       |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P10219B       | 1"         | 2 #12 W/ #12 GND               |             | 120 VAC               | PCM-MAIN (EXISTING)            |   | FIT-10-219                      |   |                              | ATTEMPT TO REUSE EXISTING CONDUIT, OTHERWISE THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P10220        |            | EXISTING                       |             | 120 VAC               | PCM-MAIN (EXISTING)            |   | AIT-10-220 (EXISTING)           |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
| F                                                                                                                                                   | P10300        |            | EXISTING                       |             | 480 VAC               | DP-MAIN (EXISTING)             |   | VCP-10-300 (EXISTING)           |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P10301        |            | EXISTING                       |             | 480 VAC               | MCC-MAIN                       |   | DISC-10-301 (EXISTING)          |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | P10301A       |            |                                |             | 480 VAC               | DISC-10-301 (EXISTING)         |   | PMP-10-301 (EXISTING)           |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     |               |            |                                |             |                       |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
| CONDUIT SCHEDULE 1                                                                                                                                  |               |            |                                |             |                       |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
| G                                                                                                                                                   |               |            |                                |             | DESIGNED<br>A. ROGERS |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     |               |            |                                |             | DRAWN<br>D. LEAVITT   |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     |               |            |                                |             | CHECKED<br>A. ROGERS  |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     |               |            |                                |             | DATE<br>AUGUST 2026   |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
|                                                                                                                                                     | 1             | 10/09/2026 | LAR                            | BID ADDENDA |                       |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
| REV                                                                                                                                                 | DATE          | BY         | DESCRIPTION                    |             |                       |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
| 1                                                                                                                                                   |               |            |                                | 2           |                       |                                |   | 3                               |   |                              |                                                                                                | 4 |   |  |   | 5 |   |  |    | 6 |    |  |    | 7 |    |  |  | 8 |  |  |  | 9 |  |  |  | 10 |  |  |  | 11 |  |  |  | 12 |  |  |  | 13 |  |  |  |  |  |  |  |
|                                                                                                                                                     |               |            |                                |             |                       |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
| MOUNTAIN REGIONAL WATER SSD                                                                                                                         |               |            |                                |             |                       |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
| SIGNAL HILL WTP OPTIMIZATION                                                                                                                        |               |            |                                |             |                       |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
| ELECTRICAL - POWER DISTRIBUTION                                                                                                                     |               |            |                                |             |                       |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
| CONDUIT SCHEDULE 1                                                                                                                                  |               |            |                                |             |                       |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
| NOTE:<br>THE CONDUIT SCHEDULE HAS BEEN UPDATED;<br>ALL CHANGES ARE MADE IN RED. IF THIS NOTE IS NOT IN RED THIS SHEET HAS NOT BEEN COPIED IN COLOR. |               |            |                                |             |                       |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
| 533 W 2600 S, Suite 25<br>Bountiful, Utah 84010<br>Phone: (801) 677-0011<br>www.skmeng.com                                                          |               |            |                                |             |                       |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
| VERIFY SCALES                                                                                                                                       |               |            |                                |             |                       |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
| JOB NO. 203230                                                                                                                                      |               |            |                                |             |                       |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
| DRAWING NO. 05E01                                                                                                                                   |               |            |                                |             |                       |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |
| SHEET NO. OF                                                                                                                                        |               |            |                                |             |                       |                                |   |                                 |   |                              |                                                                                                |   |   |  |   |   |   |  |    |   |    |  |    |   |    |  |  |   |  |  |  |   |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |    |  |  |  |  |  |  |  |



Plot Date: 10/9/2026 6:19:32 PM

LAST SAVED BY: daniel leavitt

|                                                                                                                                                                                                                                                                                                                                             |               |                 |                          |                      |                        |                        |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------|--------------------------|----------------------|------------------------|------------------------|-----------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------|----------------------|--------------------------------------------------------------------------------------------|-------------------|--|---|--|----|--|----|--|----|--|----|--|
| A                                                                                                                                                                                                                                                                                                                                           | POWER CONDUIT |                 |                          |                      |                        |                        |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | CONDUIT       | SIZE            | CONDUCTORS               | SERVICE              | FROM                   | TO                     | DUCTBANKS | NOTES                                                                                          |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P30315        | 1"              | 2 #12 W/#12 GND          | 120 VAC              | PCM-MAIN (EXISTING)    | FIT-30-315             |           | ATTEMPT TO REUSE EXISTING CONDUIT, OTHERWISE THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P30501        | 1"              | 2 #12 W/#12 GND          | 120 VAC              | LP-MAIN (EXISTING)     | DISC-30-501            |           | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P30501A       | 1"              | 2 #12 W/#12 GND          | 120 VAC              | DISC-30-501            | PMP-30-501             |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P30502        | 1"              | 2 #12 W/#12 GND          | 120 VAC              | PCM-MAIN (EXISTING)    | AIT-30-502             |           | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40011        | 1"              | 3 #8 W/#10 GND           | 480 VAC              | MCC-GAC (EXISTING)     | DISC-40-011            |           | BID ALTERNATE A                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40011A       | 1"              | 3 #8 W/#10 GND           | 480 VAC              | DISC-40-011            | PMP-40-011             |           | BID ALTERNATE A                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40111        |                 | EXISTING                 | 480 VAC              | MCC-GAC (EXISTING)     | DISC-40-111 (EXISTING) |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40111A       |                 | EXISTING                 | 480 VAC              | DISC-40-111 (EXISTING) | PMP-40-111 (EXISTING)  |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
| B                                                                                                                                                                                                                                                                                                                                           | P40116        |                 | EXISTING                 | 120 VAC              | PCM-MAIN (EXISTING)    | FIT-40-116 (EXISTING)  |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40117        |                 | EXISTING                 | 120 VAC              | PCM-MAIN (EXISTING)    | FIT-40-117 (EXISTING)  |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40118        | 1"              | 2 #12 W/#12 GND          | 120 VAC              | PCM-MAIN (EXISTING)    | AIT-40-118             |           | THRU 120 VAC CABLE TRAY - GAC BUILDING                                                         |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40121        |                 | EXISTING                 | 480 VAC              | MCC-GAC (EXISTING)     | DISC-40-121 (EXISTING) |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40121A       |                 | EXISTING                 | 480 VAC              | DISC-40-121 (EXISTING) | PMP-40-121 (EXISTING)  |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40126        |                 | EXISTING                 | 120 VAC              | PCM-MAIN (EXISTING)    | FIT-40-126 (EXISTING)  |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40127        |                 | EXISTING                 | 120 VAC              | PCM-MAIN (EXISTING)    | FIT-40-127 (EXISTING)  |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40128        | 1"              | 2 #12 W/#12 GND          | 120 VAC              | PCM-MAIN (EXISTING)    | AIT-40-128             |           | THRU 120 VAC CABLE TRAY - GAC BUILDING                                                         |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40131        | 1"              | VFD CABLE 3 #8 W/#10 GND | 480 VAC              | MCC-GAC (EXISTING)     | DISC-40-131            |           | BID ALTERNATE A                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40131A       | 1"              | 3 #8 W/#10 GND           | 480 VAC              | DISC-40-131            | PMP-40-131             |           | BID ALTERNATE A                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
| C                                                                                                                                                                                                                                                                                                                                           | P40136        | 1"              | 2 #12 W/#12 GND          | 120 VAC              | PCM-MAIN (EXISTING)    | FIT-40-136             |           | BID ALTERNATE A                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40137        | 1"              | 2 #12 W/#12 GND          | 120 VAC              | PCM-MAIN (EXISTING)    | FIT-40-137             |           | BID ALTERNATE A                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40138        | 1"              | 2 #12 W/#12 GND          | 120 VAC              | PCM-MAIN (EXISTING)    | AIT-40-138             |           | BID ALTERNATE A                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40201        | 1"              | 2 #12 W/#12 GND          | 120 VAC              | PCM-MAIN (EXISTING)    | FIT-40-201             |           | THRU 120 VAC CABLE TRAY - GAC BUILDING                                                         |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40211        |                 | EXISTING                 | 120 VAC              | PCM-MAIN (EXISTING)    | AIT-40-211 (EXISTING)  |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40212        |                 | EXISTING                 | 120 VAC              | PCM-MAIN (EXISTING)    | AIT-40-212 (EXISTING)  |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40214        | 1"              | 2 #12 W/#12 GND          | 120 VAC              | PCM-MAIN (EXISTING)    | AIT-40-214             |           | THRU 120 VAC CABLE TRAY - GAC BUILDING                                                         |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40221        | 1"              | 3 #8 W/#10 GND           | 480 VAC              | MCC-MAIN               | PMP-40-221             |           | THRU 480 VAC CABLE TRAY - GAC BUILDING                                                         |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40231        |                 | EXISTING                 | 120 VAC              | PCM-MAIN (EXISTING)    | AIT-40-231 (EXISTING)  |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40241        |                 | EXISTING                 | 120 VAC              | PCM-MAIN (EXISTING)    | AIT-40-241 (EXISTING)  |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
| D                                                                                                                                                                                                                                                                                                                                           | P40251        |                 | EXISTING                 | 120 VAC              | PCM-MAIN (EXISTING)    | AIT-40-251 (EXISTING)  |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40951        | 1"              | 3 #12 W/#12 GND          | 480 VAC              | MCC-GAC (EXISTING)     | DISC-40-951            |           | BID ALTERNATE A                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40951A       | 1"              | 3 #12 W/#12 GND          | 480 VAC              | DISC-40-951            | EXH-40-951             |           | BID ALTERNATE A                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40961        | 1"              | 3 #12 W/#12 GND          | 480 VAC              | MCC-GAC (EXISTING)     | DISC-40-961            |           | BID ALTERNATE A                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40961A       | 1"              | 3 #12 W/#12 GND          | 480 VAC              | DISC-40-961            | EUH-40-961             |           | BID ALTERNATE A                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40962        | 1"              | 3 #12 W/#12 GND          | 480 VAC              | MCC-GAC (EXISTING)     | DISC-40-962            |           | BID ALTERNATE A                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40962A       | 1"              | 3 #12 W/#12 GND          | 480 VAC              | DISC-40-962            | EUH-40-962             |           | BID ALTERNATE A                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40970        | 1"              | 3 #8 W/#10 GND           | 480 VAC              | DP-MAIN                | VCP-40-970             |           | BID ALTERNATE A                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40971        | 1"              | 3 #12 W/#12 GND          | 480 VAC              | VCP-40-970             | PMP-40-971             |           | BID ALTERNATE A                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P40972        | 1"              | 3 #12 W/#12 GND          | 480 VAC              | VCP-40-970             | PMP-40-972             |           | BID ALTERNATE A                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
| E                                                                                                                                                                                                                                                                                                                                           | P60101        | 1"              | 3 #8 W/#10 GND           | 480 VAC              | MCC-MAIN               | DISC-60-101            |           | THRU 480 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P60101A       | 1"              | 3 #8 W/#10 GND           | 480 VAC              | DISC-60-101            | PMP-60-101             |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P60102        | 1"              | 3 #8 W/#10 GND           | 480 VAC              | MCC-MAIN               | DISC-60-102            |           | THRU 480 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P60102A       | 1"              | 3 #8 W/#10 GND           | 480 VAC              | DISC-60-102            | PMP-60-102             |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P60111A       |                 | EXISTING                 | 120 VAC              | LP-MAIN (EXISTING)     | VCP-60-111 (EXISTING)  |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P60111B       |                 | EXISTING                 | 480 VAC              | DP-MAIN (EXISTING)     | DISC-60-111 (EXISTING) |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P60111C       |                 | EXISTING                 | 480 VAC              | DISC-60-111 (EXISTING) | FV-60-111 (EXISTING)   |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P60112A       |                 | EXISTING                 | 120 VAC              | LP-MAIN (EXISTING)     | VCP-60-112 (EXISTING)  |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P60112B       |                 | EXISTING                 | 480 VAC              | DP-MAIN (EXISTING)     | DISC-60-112 (EXISTING) |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P60112C       |                 | EXISTING                 | 480 VAC              | DISC-60-112 (EXISTING) | FV-60-112 (EXISTING)   |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
| F                                                                                                                                                                                                                                                                                                                                           | P60121        | 1"              | 3 #12 W/#12 GND          | 480 VAC              | MCC-MAIN               | DISC-60-121            |           | ATTEMPT TO REUSE EXISTING CONDUIT, OTHERWISE THRU 480 VAC CABLE TRAY - MAIN TREATMENT BUILDING |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P60121A       | 1"              | 3 #12 W/#12 GND          | 480 VAC              | DISC-60-121            | PMP-60-121 (EXISTING)  |           | REUSE EXISTING CONDUIT                                                                         |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P60121B       | 1"              | 2 #12 W/#12 GND          | 120 VAC              | PCM-MAIN               | FIT-60-121             |           | ATTEMPT TO REUSE EXISTING CONDUIT, OTHERWISE THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P60122        | 1"              | 3 #12 W/#12 GND          | 480 VAC              | MCC-MAIN               | DISC-60-122            |           | ATTEMPT TO REUSE EXISTING CONDUIT, OTHERWISE THRU 480 VAC CABLE TRAY - MAIN TREATMENT BUILDING |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P60122A       | 1"              | 3 #12 W/#12 GND          | 480 VAC              | DISC-60-122            | PMP-60-122 (EXISTING)  |           | REUSE EXISTING CONDUIT                                                                         |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P60131        | 1"              | 3 #12 W/#12 GND          | 480 VAC              | MCC-MAIN               | DISC-60-131            | DB-8      | THRU 480 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P60131A       | 1"              | 3 #12 W/#12 GND          | 480 VAC              | DISC-60-131            | MX-60-131              |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P60141        | 1"              | 3 #12 W/#12 GND          | 480 VAC              | MCC-MAIN               | DISC-60-141            | DB-8      | THRU 480 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P60141A       | 1"              | 3 #12 W/#12 GND          | 480 VAC              | DISC-60-141            | MX-60-141              |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             | P60151        | 1"              | 3 #12 W/#12 GND          | 480 VAC              | MCC-MAIN               | DISC-60-151            |           | ATTEMPT TO REUSE EXISTING CONDUIT, OTHERWISE THRU 480 VAC CABLE TRAY - MAIN TREATMENT BUILDING |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
| P60151A                                                                                                                                                                                                                                                                                                                                     | 1"            | 3 #12 W/#12 GND | 480 VAC                  | DISC-60-151          | PMP-60-151             |                        |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
| CONDUIT SCHEDULE 2                                                                                                                                                                                                                                                                                                                          |               |                 |                          |                      |                        |                        |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
| <div><div><div>1</div><div>NOTE:<br/>THE CONDUIT SCHEDULE HAS BEEN UPDATED;<br/>ALL CHANGES ARE MADE IN RED. IF THIS NOTE<br/>IS NOT IN RED THIS SHEET HAS NOT BEEN<br/>COPIED IN COLOR.</div></div><div><div>skm</div><div>533 W 2600 S, Suite 25<br/>Bountiful, Utah 84010<br/>Phone: (801) 677-0011<br/>www.skmeng.com</div></div></div> |               |                 |                          |                      |                        |                        |           |                                                                                                |                                                                                       |                                                                                       |                                     |                      |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
| G                                                                                                                                                                                                                                                                                                                                           |               |                 |                          |                      | DESIGNED<br>A. ROGERS  |                        |           |                                                                                                |  |  | MOUNTAIN REGIONAL WATER SSD         |                      | VERIFY SCALES                                                                              | JOB NO.<br>203230 |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             |               |                 |                          |                      | DRAWN<br>D. LEAVITT    |                        |           | SIGNAL HILL WTP OPTIMIZATION                                                                   |                                                                                       |                                                                                       | BAR IS ONE INCH ON ORIGINAL DRAWING | DRAWING NO.<br>05E02 |                                                                                            |                   |  |   |  |    |  |    |  |    |  |    |  |
|                                                                                                                                                                                                                                                                                                                                             |               |                 |                          | CHECKED<br>A. ROGERS |                        |                        |           |                                                                                                |                                                                                       |                                                                                       | ELECTRICAL - POWER DISTRIBUTION     |                      | 0  1" |                   |  |   |  |    |  |    |  |    |  |    |  |
| 1<br>REV                                                                                                                                                                                                                                                                                                                                    |               |                 |                          | 10/09/2026           | LAR                    | BID ADDENDA            |           |                                                                                                |                                                                                       |                                                                                       | CONDUIT SCHEDULE 2                  |                      | IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY                                   | SHEET NO.<br>OF   |  |   |  |    |  |    |  |    |  |    |  |
| 1                                                                                                                                                                                                                                                                                                                                           |               | 2               |                          | 3                    |                        | 4                      |           | 5                                                                                              |                                                                                       | 6                                                                                     |                                     | 7                    |                                                                                            | 8                 |  | 9 |  | 10 |  | 11 |  | 12 |  | 13 |  |



Plot Date: 10/12/2026 12:21:57 PM

LAST SAVED BY: daniel leavitt

|                                                                                                                                               |                                                          |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------|--------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--|--|--|--|--|
| A                                                                                                                                             | POWER CONDUIT                                            |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
|                                                                                                                                               | CONDUIT                                                  | SIZE                 | CONDUCTORS         | SERVICE                   | FROM                                                                                                                           | TO                                             | DUCTBANKS                                                                                       | NOTES                                                                                          |  |  |  |  |  |
|                                                                                                                                               | P37001B                                                  | 1.5"                 | 3 2/0 W/ #6 GND    | 480 VAC                   | DP-MAIN (EXISTING)                                                                                                             | CIP HEATER 2                                   |                                                                                                 | THRU 480 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |  |  |  |  |  |
|                                                                                                                                               | P95000A                                                  | 1"                   | 3 #8 W/ #10 GND    | 480 VAC                   | MCC-MAIN                                                                                                                       | DISC-AC95000A                                  |                                                                                                 | THRU 480 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |  |  |  |  |  |
|                                                                                                                                               | P95000A1                                                 | 1"                   | 3 #8 W/ #10 GND    | 480 VAC                   | DISC-AC95000A                                                                                                                  | AC95000A                                       |                                                                                                 |                                                                                                |  |  |  |  |  |
|                                                                                                                                               | P95000B                                                  | 1"                   | 3 #8 W/ #10 GND    | 480 VAC                   | MCC-MAIN                                                                                                                       | DISC-AC95000B                                  |                                                                                                 | THRU 480 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |  |  |  |  |  |
|                                                                                                                                               | P95000B1                                                 | 1"                   | 3 #8 W/ #10 GND    | 480 VAC                   | DISC-AC95000B                                                                                                                  | AC95000B                                       |                                                                                                 |                                                                                                |  |  |  |  |  |
|                                                                                                                                               |                                                          |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
|                                                                                                                                               | CONTROL CONDUIT                                          |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
|                                                                                                                                               | CONDUIT                                                  | SIZE                 | CONDUCTORS         | SERVICE                   | FROM                                                                                                                           | TO                                             | DUCTBANKS                                                                                       | NOTES                                                                                          |  |  |  |  |  |
| C001                                                                                                                                          | 1"                                                       | 4 #12 W/ #12 GND     | 120VAC             | SES                       | ATS                                                                                                                            |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C002                                                                                                                                          | 1"                                                       | 12 #12 W/ #12 GND    | 24 VDC             | ATS                       | PCM-MAIN (EXISTING)                                                                                                            |                                                | ROUTE THROUGH SWBD-MAIN AND DB-40                                                               |                                                                                                |  |  |  |  |  |
| C003                                                                                                                                          | 1"                                                       | 2 #12 W/ #12 GND     | 120 VAC            | ATS                       | STANDBY GENERATOR (EXISTING)                                                                                                   | DB-2 (EX)                                      | REUSE EXISTING CONDUIT                                                                          |                                                                                                |  |  |  |  |  |
| C10211                                                                                                                                        | 1"                                                       | 4 #12 W/ #12 GND     | 120 VAC            | MCC-MAIN                  | ME-10-211, TE-10-211                                                                                                           |                                                | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                               |                                                                                                |  |  |  |  |  |
| C10212                                                                                                                                        | 1"                                                       | 4 #12 W/ #12 GND     | 120 VAC            | MCC-MAIN                  | ME-10-212, TE-10-212                                                                                                           |                                                | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                               |                                                                                                |  |  |  |  |  |
| C10213                                                                                                                                        | 1"                                                       | 4 #12 W/ #12 GND     | 120 VAC            | MCC-MAIN                  | ME-10-213, TE-10-213                                                                                                           |                                                | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                               |                                                                                                |  |  |  |  |  |
| C10215                                                                                                                                        | 1"                                                       | 2 #12 W/ #12 GND     | 24 VDC             | PCM-MAIN (EXISTING)       | LSHH-10-215                                                                                                                    |                                                | ATTEMPT TO REUSE EXISTING CONDUIT, OTHERWISE THRU 24 VDC CABLE TRAY - MAIN TREATMENT BUILDING   |                                                                                                |  |  |  |  |  |
| C10215A                                                                                                                                       | 1"                                                       | 2 #12 W/ #12 GND     | 120 VAC            | PCM-MAIN (EXISTING)       | LSLL-10-215                                                                                                                    |                                                | ATTEMPT TO REUSE EXISTING CONDUIT, OTHERWISE THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING  |                                                                                                |  |  |  |  |  |
| C10215B                                                                                                                                       | 1"                                                       | 2 #12 W/ #12 GND     | 120 VAC            | MCC-MAIN                  | LSLL-10-215                                                                                                                    |                                                | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                               |                                                                                                |  |  |  |  |  |
| C10215C                                                                                                                                       | 1"                                                       | 2 #12 W/ #12 GND     | 120 VAC            | MCC-MAIN                  | LSLL-10-215                                                                                                                    |                                                | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                               |                                                                                                |  |  |  |  |  |
| C10215D                                                                                                                                       | 1"                                                       | 2 #12 W/ #12 GND     | 120 VAC            | MCC-MAIN                  | LSLL-10-215                                                                                                                    |                                                | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                               |                                                                                                |  |  |  |  |  |
| C10218                                                                                                                                        | 1"                                                       | 10 #12 W/ #12 GND    | 120 VAC            | PCM-MAIN (EXISTING)       | FV-10-218, ZSOC-10-218, HSA-10-218                                                                                             |                                                | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                               |                                                                                                |  |  |  |  |  |
| C10219                                                                                                                                        | 1"                                                       | 10 #12 W/ #12 GND    | 120 VAC            | PCM-MAIN (EXISTING)       | FV-10-219, ZSOC-10-219, HSA-10-219                                                                                             |                                                | ATTEMPT TO REUSE EXISTING CONDUITS, OTHERWISE THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING |                                                                                                |  |  |  |  |  |
| C10300                                                                                                                                        |                                                          | EXISTING             | 120 VAC            | PCM-MAIN (EXISTING)       | VCP-10-300 (EXISTING)                                                                                                          |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C10301                                                                                                                                        |                                                          | EXISTING             | 120 VAC            | VCP-10-300 (EXISTING)     | LSLL-10-301, LS1-10-301, LS2-10-301, LSH-10-301, ME-10-301, TE-10-301, PMP-10-301, ME-10-302, TE-10-302, PMP-10-302 (EXISTING) |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C15001                                                                                                                                        | 1"                                                       | 12 #12 W/ #12 GND    | 120 VAC            | PCM-MAIN (EXISTING)       | FV-15-001, ZSOC-15-001, LCP-15-001                                                                                             | DB-7                                           |                                                                                                 |                                                                                                |  |  |  |  |  |
| C15001A                                                                                                                                       | 1"                                                       | MANUFACTURER'S CABLE | 120 VAC            | FV-15-001                 | LCP-15-001                                                                                                                     |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C15111                                                                                                                                        | 1"                                                       | 4 #12 W/ #12 GND     | 120 VAC            | LCP-15-111                | ME-15-111, TE-15-111                                                                                                           |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C15112                                                                                                                                        | 1"                                                       | 4 #12 W/ #12 GND     | 120 VAC            | LCP-15-111                | ME-15-112, TE-15-112                                                                                                           |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C15113                                                                                                                                        | 1"                                                       | 4 #12 W/ #12 GND     | 120 VAC            | LCP-15-111                | ME-15-113, TE-15-113                                                                                                           |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C15115                                                                                                                                        | 1"                                                       | 2 #12 W/ #12 GND     | 120 VAC            | PCM-MAIN (EXISTING)       | LSHH-15-115                                                                                                                    | DB-7                                           |                                                                                                 |                                                                                                |  |  |  |  |  |
| C15115A                                                                                                                                       | 1"                                                       | 2 #12 W/ #12 GND     | 120 VAC            | PCM-MAIN (EXISTING)       | LSLL-15-115                                                                                                                    | DB-7                                           |                                                                                                 |                                                                                                |  |  |  |  |  |
| C15115B                                                                                                                                       | 1"                                                       | 2 #12 W/ #12 GND     | 120 VAC            | VFD-15-111                | PCM-MAIN (EXISTING)                                                                                                            |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C15115C                                                                                                                                       | 1"                                                       | 2 #12 W/ #12 GND     | 120 VAC            | VFD-15-112                | PCM-MAIN (EXISTING)                                                                                                            |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C15115D                                                                                                                                       | 1"                                                       | 2 #12 W/ #12 GND     | 120 VAC            | VFD-15-113                | PCM-MAIN (EXISTING)                                                                                                            |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C15111A                                                                                                                                       | 1"                                                       | 17 #12 W/ #12 GND    | 120 VAC            | LCP-15-111                | VFD-15-111                                                                                                                     | DB-7                                           |                                                                                                 |                                                                                                |  |  |  |  |  |
| C15111B                                                                                                                                       | 1"                                                       | 17 #12 W/ #12 GND    | 120 VAC            | LCP-15-111                | VFD-15-112                                                                                                                     | DB-7                                           |                                                                                                 |                                                                                                |  |  |  |  |  |
| C15111C                                                                                                                                       | 1"                                                       | 17 #12 W/ #12 GND    | 120 VAC            | LCP-15-111                | VFD-15-113                                                                                                                     | DB-7                                           |                                                                                                 |                                                                                                |  |  |  |  |  |
| C20101                                                                                                                                        | 1"                                                       | 13 #12 W/ 2#12 GND   | 120 VAC            | FVNR-20-101               | LCP-20-101, MWH-20-101, TSH-20-101, PSH-20-101                                                                                 |                                                | ATTEMPT TO REUSE EXISTING CONDUIT, OTHERWISE THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING  |                                                                                                |  |  |  |  |  |
| C25110                                                                                                                                        | 1"                                                       | 2 #12 W/ #12 GND     | 24 VDC             | PCM-MAIN (EXISTING)       | LSH-25-110                                                                                                                     |                                                | ATTEMPT TO REUSE EXISTING CONDUIT, OTHERWISE THRU 24 VDC CABLE TRAY - MAIN TREATMENT BUILDING   |                                                                                                |  |  |  |  |  |
| C25110A                                                                                                                                       | 1"                                                       | 2 #12 W/ #12 GND     | 120 VAC            | PCM-MAIN (EXISTING)       | LSL-25-110                                                                                                                     |                                                | ATTEMPT TO REUSE EXISTING CONDUIT, OTHERWISE THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING  |                                                                                                |  |  |  |  |  |
| C25110B                                                                                                                                       | 1"                                                       | 2 #12 W/ #12 GND     | 120 VAC            | MCC-MAIN                  | LSL-25-110                                                                                                                     |                                                | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                               |                                                                                                |  |  |  |  |  |
| C25110C                                                                                                                                       | 1"                                                       | 2 #12 W/ #12 GND     | 120 VAC            | MCC-MAIN                  | LSL-25-110                                                                                                                     |                                                | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                               |                                                                                                |  |  |  |  |  |
| C25110D                                                                                                                                       | 1"                                                       | 2 #12 W/ #12 GND     | 120 VAC            | MCC-MAIN                  | LSL-25-110                                                                                                                     |                                                | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                               |                                                                                                |  |  |  |  |  |
| C25110E                                                                                                                                       | 1"                                                       | 2 #12 W/ #12 GND     | 120 VAC            | MCC-MAIN                  | LSL-25-110                                                                                                                     |                                                | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                               |                                                                                                |  |  |  |  |  |
| C25110F                                                                                                                                       | 1"                                                       | 2 #12 W/ #12 GND     | 120 VAC            | MCC-MAIN                  | LSL-25-110                                                                                                                     |                                                | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                               |                                                                                                |  |  |  |  |  |
| C25111                                                                                                                                        | 1.5"                                                     | 35 #12 W/ #12 GND    | 120 VAC            | LCP-25-111                | VFD-25-111, VFD-25-112, VFD-25-113, VFD-25-114, VFD-25-115                                                                     |                                                | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                               |                                                                                                |  |  |  |  |  |
| C25111A                                                                                                                                       | 1"                                                       | 4 #12 W/ #12 GND     | 120 VAC            | MCC-MAIN                  | MWH-25-111, TSH-25-111                                                                                                         |                                                | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                               |                                                                                                |  |  |  |  |  |
| CONDUIT SCHEDULE 3                                                                                                                            |                                                          |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| B                                                                                                                                             | CONTROL CONDUIT                                          |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
|                                                                                                                                               | CONDUIT                                                  | SIZE                 | CONDUCTORS         | SERVICE                   | FROM                                                                                                                           | TO                                             | DUCTBANKS                                                                                       | NOTES                                                                                          |  |  |  |  |  |
|                                                                                                                                               | C25112                                                   | 1"                   | 4 #12 W/ #12 GND   | 120 VAC                   | MCC-MAIN                                                                                                                       | MWH-25-112, TSH-25-112                         |                                                                                                 | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |  |  |  |  |  |
|                                                                                                                                               | C25113                                                   | 1"                   | 4 #12 W/ #12 GND   | 120 VAC                   | MCC-MAIN                                                                                                                       | MWH-25-113, TSH-25-113                         |                                                                                                 | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |  |  |  |  |  |
|                                                                                                                                               | C25114                                                   | 1"                   | 4 #12 W/ #12 GND   | 120 VAC                   | MCC-MAIN                                                                                                                       | MWH-25-114, TSH-25-114                         |                                                                                                 | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |  |  |  |  |  |
|                                                                                                                                               | C25115                                                   | 1"                   | 4 #12 W/ #12 GND   | 120 VAC                   | MCC-MAIN                                                                                                                       | MWH-25-115, TSH-25-115                         |                                                                                                 | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |  |  |  |  |  |
|                                                                                                                                               | C30001                                                   | 1"                   | 16 #12 W/ 4#12 GND | 120 VAC                   | VCP-30-001                                                                                                                     | VFD-36000A, VFD-36000B, VFD-37000A, VFD-37000B |                                                                                                 | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |  |  |  |  |  |
|                                                                                                                                               | C30011                                                   | 1"                   | 8 #12 W/ #12 GND   | 120 VAC                   | VFD-30-011                                                                                                                     | ME-30-011, TE-30-011, FSL-30-011               |                                                                                                 | ATTEMPT TO REUSE EXISTING CONDUIT, OTHERWISE THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING |  |  |  |  |  |
|                                                                                                                                               | C30012                                                   | 1"                   | 8 #12 W/ #12 GND   | 120 VAC                   | VFD-30-012                                                                                                                     | ME-30-012, TE-30-012, FSL-30-012               |                                                                                                 | ATTEMPT TO REUSE EXISTING CONDUIT, OTHERWISE THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING |  |  |  |  |  |
|                                                                                                                                               | C30013                                                   | 1"                   | 8 #12 W/ #12 GND   | 120 VAC                   | VFD-30-013                                                                                                                     | ME-30-013, TE-30-013, FSL-30-013               |                                                                                                 | ATTEMPT TO REUSE EXISTING CONDUIT, OTHERWISE THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING |  |  |  |  |  |
| C30310                                                                                                                                        |                                                          | EXISTING             | 120 VAC            | PCM-MAIN (EXISTING)       | VCP-30-310 (EXISTING)                                                                                                          |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C30311                                                                                                                                        |                                                          | EXISTING             | 120 VAC            | VCP-30-310 (EXISTING)     | LSLL-30-311, LS1-30-311, LS2-30-311, LSH-30-311, ME-30-311, TE-30-311, PMP-30-311, ME-30-312, TE-30-312, PMP-30-312 (EXISTING) |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C40002                                                                                                                                        |                                                          | EXISTING             |                    | PCM-MAIN (EXISTING)       | LSL-40-002, LSH-40-002                                                                                                         |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C40011                                                                                                                                        | 1"                                                       | 13 #12 W/ #12 GND    | 120 VAC            | MCC-GAC/LP-GAC (EXISTING) | LCP-40-011, MWH-40-011, TSH-40-011, ZSO-40-011                                                                                 |                                                | BID ALTERNATE A                                                                                 |                                                                                                |  |  |  |  |  |
| C40110                                                                                                                                        | 1"                                                       | 4 #12 W/ #12 GND     | 120 VAC            | PCM-MAIN (EXISTING)       | ZSOC-40-110                                                                                                                    |                                                | THRU 120 VAC CABLE TRAY - GAC BUILDING                                                          |                                                                                                |  |  |  |  |  |
| C40111                                                                                                                                        |                                                          | EXISTING             |                    | PCM-MAIN (EXISTING)       | MCC-GAC/LP-GAC (EXISTING)                                                                                                      |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C40111A                                                                                                                                       |                                                          | EXISTING             |                    | MCC-GAC/LP-GAC (EXISTING) | LCP-40111, MWH-40-111, TSH-40111 (EXISTING)                                                                                    |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C40111B                                                                                                                                       |                                                          | 2 #12 W/ #12 GND     | 24 VDC             | PCM-MAIN (EXISTING)       | ZSO-40-111                                                                                                                     |                                                | THRU 24 VDC CABLE TRAY - GAC BUILDING                                                           |                                                                                                |  |  |  |  |  |
| C40119                                                                                                                                        | 1"                                                       | 4 #12 W/ #12 GND     | 24 VDC             | PCM-MAIN (EXISTING)       | ZSOC-40-119                                                                                                                    |                                                | THRU 24 VDC CABLE TRAY - GAC BUILDING                                                           |                                                                                                |  |  |  |  |  |
| C40120                                                                                                                                        | 1"                                                       | 4 #12 W/ #12 GND     | 24 VDC             | PCM-MAIN (EXISTING)       | ZSOC-40-120                                                                                                                    |                                                | THRU 24 VDC CABLE TRAY - GAC BUILDING                                                           |                                                                                                |  |  |  |  |  |
| C40121                                                                                                                                        |                                                          | EXISTING             |                    | PCM-MAIN (EXISTING)       | VFD-40-121 (EXISTING)                                                                                                          |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C40121A                                                                                                                                       |                                                          | EXISTING             |                    | MCC-GAC/LP-GAC (EXISTING) | LCP-40121, MWH-40-121, TSH-40-121                                                                                              |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C40121B                                                                                                                                       |                                                          | 2 #12 W/ #12 GND     | 24 VDC             | PCM-MAIN (EXISTING)       | ZSO-40-121                                                                                                                     |                                                | THRU 24 VDC CABLE TRAY - GAC BUILDING                                                           |                                                                                                |  |  |  |  |  |
| C40129                                                                                                                                        | 1"                                                       | 4 #12 W/ #12 GND     | 24 VDC             | PCM-MAIN (EXISTING)       | ZSOC-40-129                                                                                                                    |                                                | THRU 24 VDC CABLE TRAY - GAC BUILDING                                                           |                                                                                                |  |  |  |  |  |
| C40130                                                                                                                                        | 1"                                                       | 4 #12 W/ #12 GND     | 24 VDC             | PCM-MAIN (EXISTING)       | ZSOC-40-130                                                                                                                    |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C40131                                                                                                                                        | 1"                                                       | 13 #12 W/ #12 GND    | 120 VAC            | VFD-40-131                | LCP-40131, MWH-40-131, TSH-40-131                                                                                              |                                                | BID ALTERNATE A                                                                                 |                                                                                                |  |  |  |  |  |
| C40131A                                                                                                                                       | 1"                                                       | 2 #12 W/ #12 GND     | 24 VDC             | PCM-MAIN (EXISTING)       | ZSO-40-131                                                                                                                     |                                                | THRU 24 VDC CABLE TRAY - GAC BUILDING                                                           |                                                                                                |  |  |  |  |  |
| C40221                                                                                                                                        | 1"                                                       | 4 #12 W/ #12 GND     | 120 VAC            | MCC-MAIN (EXISTING)       | MWH-40-221, TSH-40-221                                                                                                         |                                                | THRU 120 VAC CABLE TRAY - GAC BUILDING                                                          |                                                                                                |  |  |  |  |  |
| C40970                                                                                                                                        | 1"                                                       | 6 #12 W/ #12 GND     | 120 VAC            | PCM-MAIN (EXISTING)       | VCP-40-970                                                                                                                     |                                                | BID ALTERNATE A                                                                                 |                                                                                                |  |  |  |  |  |
| C40970A                                                                                                                                       | 1"                                                       | 16 #12 W/ 2#12 GND   | 120 VAC            | VCP-40-970                | LSL-40-970, LS1-40-970, LS2-40-970, LSH-40-970, ME-40-971, TE-40-971, ME-40-972, TE-40-972                                     |                                                | BID ALTERNATE A                                                                                 |                                                                                                |  |  |  |  |  |
| C40951                                                                                                                                        | 1"                                                       | 14 #12 W/ #12 GND    | 120 VAC            | MCC-GAC/LP-GAC (EXISTING) | EXH-40-951                                                                                                                     |                                                | BID ALTERNATE A                                                                                 |                                                                                                |  |  |  |  |  |
| C40951A                                                                                                                                       | 1"                                                       | 2 #12 W/ #12 GND     | 120 VAC            | FVNR-40-951               | FVNR-40-952 VIA MCC-GAC                                                                                                        |                                                | BID ALTERNATE A                                                                                 |                                                                                                |  |  |  |  |  |
| C40952                                                                                                                                        | 1"                                                       | 14 #12 W/ #12 GND    | 120 VAC            | MCC-GAC/LP-GAC (EXISTING) | EXH-40-952                                                                                                                     |                                                | THRU 120 VAC CABLE TRAY - GAC BUILDING                                                          |                                                                                                |  |  |  |  |  |
| C60101                                                                                                                                        | 1"                                                       | 4 #12 W/ #12 GND     | 120 VAC            | MCC-MAIN                  | ME-60-101, TE-60-101                                                                                                           |                                                | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                               |                                                                                                |  |  |  |  |  |
| C60102                                                                                                                                        | 1"                                                       | 4 #12 W/ #12 GND     | 120 VAC            | MCC-MAIN                  | ME-60-102, TE-60-102                                                                                                           |                                                | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                               |                                                                                                |  |  |  |  |  |
| C60111                                                                                                                                        |                                                          | EXISTING             | 120 VAC            | PCM-MAIN (EXISTING)       | LSHH-60-111 (EXISTING)                                                                                                         |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C60111A                                                                                                                                       |                                                          | EXISTING             | 120 VAC            | PCM-MAIN (EXISTING)       | LSLL-60-111 (EXISTING)                                                                                                         |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C60111B                                                                                                                                       | 1"                                                       | 2 #12 W/ #12 GND     | 120 VAC            | MCC-MAIN                  | LSLL-60-111 (EXISTING)                                                                                                         |                                                | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                               |                                                                                                |  |  |  |  |  |
| C60111C                                                                                                                                       | 1"                                                       | 2 #12 W/ #12 GND     | 120 VAC            | MCC-MAIN                  | LSLL-60-111 (EXISTING)                                                                                                         |                                                | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                               |                                                                                                |  |  |  |  |  |
| C60111D                                                                                                                                       |                                                          | EXISTING             | 120 VAC            | PCM-MAIN (EXISTING)       | LSH-60-111                                                                                                                     |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C60111E                                                                                                                                       |                                                          | EXISTING             | 120 VAC            | VCP-60-111 (EXISTING)     | FV-60-111 (EXISTING), ZSOC-60-111 (EXISTING), HSA-60-111 (EXISTING)                                                            |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C60111F                                                                                                                                       |                                                          | EXISTING             | 120 VAC            | VCP-60-111 (EXISTING)     | SLC-60-111 (EXISTING), ZE1-60-111 (EXISTING)                                                                                   |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C60112                                                                                                                                        |                                                          | EXISTING             | 120 VAC            | VCP-60-112 (EXISTING)     | FV-60-112 (EXISTING), ZSOC-60-112 (EXISTING), HSA-60-112 (EXISTING)                                                            |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| NOTE: THE CONDUIT SCHEDULE HAS BEEN UPDATED; ALL CHANGES ARE MADE IN RED. IF THIS NOTE IS NOT IN RED THIS SHEET HAS NOT BEEN COPIED IN COLOR. |                                                          |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| 533 W 2600 S, Suite 25<br>Bountiful, Utah 84010<br>Phone: (801) 677-0011<br>www.skmeng.com                                                    |                                                          |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| C                                                                                                                                             | MOUNTAIN REGIONAL WATER SSD                              |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
|                                                                                                                                               | SIGNAL HILL WTP OPTIMIZATION                             |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
|                                                                                                                                               | ELECTRICAL - POWER DISTRIBUTION                          |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
|                                                                                                                                               | CONDUIT SCHEDULE 3                                       |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
|                                                                                                                                               | VERIFY SCALES                                            |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
|                                                                                                                                               | JOB NO. 203230                                           |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
|                                                                                                                                               | BAR IS ONE INCH ON ORIGINAL DRAWING                      |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
|                                                                                                                                               | DRAWING NO. 05E03                                        |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
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|                                                                                                                                               | IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| SHEET NO. OF                                                                                                                                  |                                                          |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
| D                                                                                                                                             | DESIGNED<br>A. ROGERS                                    |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
|                                                                                                                                               | DRAWN<br>D. LEAVITT                                      |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
|                                                                                                                                               | CHECKED<br>A. ROGERS                                     |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
|                                                                                                                                               | DATE<br>AUGUST 2026                                      |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
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| E                                                                                                                                             | 10/09/2026                                               |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
|                                                                                                                                               | LAR                                                      |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
|                                                                                                                                               | BID ADDENDA                                              |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
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|                                                                                                                                               | MOUNTAIN REGIONAL WATER                                  |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
|                                                                                                                                               |                                                          |                      |                    |                           |                                                                                                                                |                                                |                                                                                                 |                                                                                                |  |  |  |  |  |
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|    |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|----|--------------------|---------------|----------------------------|--|---|--------------------|--------------------------------|--|------------------------------------------------------------------------|--|---|-----------------|------------------------------------------------------------------------------------------------|--|---|--|---|--|----|--|----|--|----|--|----|--|
| A  | 1                  |               | 2                          |  | 3 |                    | 4                              |  | 5                                                                      |  | 6 |                 | 7                                                                                              |  | 8 |  | 9 |  | 10 |  | 11 |  | 12 |  | 13 |  |
|    | CONTROL CONDUIT    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | CONDUIT            | SIZE          | CONDUCTORS                 |  |   | SERVICE            | FROM                           |  | TO                                                                     |  |   | DUCTBANKS       | NOTES                                                                                          |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C6012A             |               | EXISTING                   |  |   | 120 VAC            | VCP-60-112 (EXISTING)          |  | SLC-60-112 (EXISTING), ZE1-60-112 (EXISTING), ZE2-60-112 (EXISTING)    |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C60121A            |               | EXISTING                   |  |   | 120 VAC            | MCC-MAIN                       |  | PCM-MAIN (EXISTING)                                                    |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C60121B            |               | EXISTING                   |  |   | 120 VAC            | MCC-MAIN                       |  | LCP-60-121, TSH2-60-121 (EXISTING)                                     |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C60122A            |               | EXISTING                   |  |   | 120 VAC            | MCC-MAIN                       |  | PCM-MAIN (EXISTING)                                                    |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C60122B            |               | EXISTING                   |  |   | 120 VAC            | MCC-MAIN                       |  | LCP-60-122, TSH2-60-122 (EXISTING)                                     |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C60131             | 1"            | 11 #12 W/#12 GND           |  |   | 120 VAC            | MCC-MAIN                       |  | LCP-60-131, MWH-60-131, TSH-60-131                                     |  |   | DB-8            | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | <del>C60132</del>  | <del>1"</del> | <del>4 #12 W/#12 GND</del> |  |   | <del>120 VAC</del> | <del>PCM-MAIN (EXISTING)</del> |  | <del>ZSOC-60-132</del>                                                 |  |   | <del>DB-8</del> | <del>THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING</del>                                   |  |   |  |   |  |    |  |    |  |    |  |    |  |
| B  | C60135             | 1"            | 4 #12 W/#12 GND            |  |   | 24 VDC             | PCM-MAIN (EXISTING)            |  | ZSOC-60-135                                                            |  |   |                 | THRU 24 VDC CABLE TRAY - MAIN TREATMENT BUILDING                                               |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C60141             | 1"            | 11 #12 W/#12 GND           |  |   | 120 VAC            | MCC-MAIN                       |  | LCP-60-141, MWH-60-141, TSH-60-141                                     |  |   | DB-8            | THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING                                              |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C60145             | 1"            | 4 #12 W/#12 GND            |  |   | 24 VDC             | PCM-MAIN (EXISTING)            |  | ZSOC-60-145                                                            |  |   | DB-8            | THRU 24 VDC CABLE TRAY - MAIN TREATMENT BUILDING                                               |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C60151             | 1"            | 17 #12 W/ 2#12 GND         |  |   | 120 VAC            | MCC-MAIN                       |  | SV-60-151, FSL-60-151, LCP-60-151, PSH-60-151                          |  |   |                 | ATTEMPT TO REUSE EXISTING CONDUIT, OTHERWISE THRU 120 VAC CABLE TRAY - MAIN TREATMENT BUILDING |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C60241             | 1"            | 6 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-MAIN (EXISTING)            |  | VCP-60-241                                                             |  |   |                 | BID ALTERNATE A                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C60241A            | 1"            | 14 #12 W/ 2#12 GND         |  |   | 120 VAC            | VCP-60-241                     |  | SSL-60-241, SV1-60-241, MWH-60-241, TSH-60-241, SV2-60-241, HSU-60-241 |  |   |                 | BID ALTERNATE A                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C60311             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-MAIN (EXISTING)            |  | VCP-60-311                                                             |  |   |                 | BID ALTERNATE A                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C60311A            | 1"            | 2 #12 W/ 2#12 GND          |  |   | 120 VAC            | VCP-60-311                     |  | PBU-60-311                                                             |  |   |                 | BID ALTERNATE A                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70101             | 1"            | 2 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | LSH-70-101                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70109             | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | ESEW-70-109                                                            |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| C  | C70121             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-121                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70121A            | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | PSH-70-121                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70122             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-122                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70122A            | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | PSH-70-122                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70123             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-123                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70123A            | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | PSH-70-123                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70124             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-124                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70124A            | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | PSH-70-124                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70125             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-125                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70125A            | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | PSH-70-125                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| D  | C70131             | 1"            | 11 #12 W/ #12 GND          |  |   | 120 VAC            | MCC-CHEM                       |  | LCP-70-131, MWH-70-131, TSH-70-131                                     |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70201             | 1"            | 2 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | LSH-70-201                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70209             | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | ESEW-70-209                                                            |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70221             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-221                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70221A            | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | PSH-70-221                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70222             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-222                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70222A            | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | PSH-70-222                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70301             | 1"            | 2 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | LSH-70-301                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70309             | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | ESEW-70-309                                                            |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70321             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-321                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| E  | C70321A            | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | PSH-70-321                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70322             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-322                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70322A            | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | PSH-70-322                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70323             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-323                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70323A            | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | PSH-70-323                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70324             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-324                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70324A            | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | PSH-70-324                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70401             | 1"            | 2 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | LSH-70-401                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70409             | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | ESEW-70-409                                                            |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70421             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-421                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| F  | C70421A            | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | PSH-70-421                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70422             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-422                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70422A            | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | PSH-70-422                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70501             | 1"            | 2 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | LSH-70-501                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70509             | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | ESEW-70-509                                                            |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70521             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-521                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70521A            | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | PSH-70-521                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70522             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-522                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70522A            | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | PSH-70-522                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70603             | 1"            | 2 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | LSH-70-603                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| G  | C70609             | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | ESEW-70-609                                                            |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70621             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-621                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70621A            | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | PSH-70-621                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70622             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-622                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70622A            | 1"            | 2 #12 W/ #12 GND           |  |   | 24 VDC             | PCM-CHEM                       |  | PSH-70-622                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70701             | 1"            | 2 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-701                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70701A            | 1"            | 2 #12 W/ #12 GND           |  |   | 120 VAC            | VCP-70-701                     |  | LSH-70-701                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70721             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-721                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70722             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-722                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70921             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-921                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| H  | C70922             | 1"            | 8 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-922                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70951             | 1"            | 6 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | LCP-70-951                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70951A            | 1"            | 2 #12 W/ #12 GND           |  |   | 120 VAC            | LCP-70-951                     |  | TSHL-70-951                                                            |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70951B            | 1"            | 4 #12 W/ #12 GND           |  |   | 120 VAC            | LCP-70-951                     |  | SD-70-951                                                              |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70951C            | 1"            | 2 #12 W/ #12 GND           |  |   | 120 VAC            | LCP-70-951                     |  | FVNR-70-961 VIA MCC-CHEM                                               |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70961             | 1"            | 14 #12 W/ #12 GND          |  |   | 120 VAC            | FVNR-70-961                    |  | EXH-70-961                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | C70970             | 1"            | 6 #12 W/ #12 GND           |  |   | 120 VAC            | PCM-CHEM                       |  | VCP-70-970                                                             |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | CONDUIT SCHEDULE 4 |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | G                  |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
|    | H                  |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| I  |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| J  |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| K  |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| L  |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| M  |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| N  |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| O  |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| P  |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| Q  |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| R  |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| S  |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| T  |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| U  |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| V  |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| W  |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| X  |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| Y  |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| Z  |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AA |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AB |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AC |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AD |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AE |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AF |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AG |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AH |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AI |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AJ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AK |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AL |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AM |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AN |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AO |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AP |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AQ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AR |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AS |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AT |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AU |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AV |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AW |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AX |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AY |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| AZ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BA |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BB |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BC |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BD |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BE |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BF |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BG |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BH |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BI |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BJ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BK |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BL |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BM |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BN |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BO |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BP |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BQ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BR |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BS |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BT |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BU |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BV |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BW |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BX |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BY |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| BZ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CA |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CB |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CC |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CD |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CE |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CF |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CG |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CH |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CI |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CJ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CK |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CL |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CM |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CN |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CO |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CP |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CQ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CR |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CS |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CT |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CU |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CV |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CW |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CX |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CY |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| CZ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DA |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DB |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DC |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DD |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DE |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DF |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DG |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DH |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DI |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DJ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DK |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DL |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DM |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DN |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DO |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DP |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DQ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DR |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DS |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DT |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DU |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DV |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DW |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DX |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DY |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| DZ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EA |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EB |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EC |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| ED |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EE |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EF |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EG |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EH |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EI |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EJ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EK |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EL |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EM |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EN |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EO |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EP |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EQ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| ER |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| ES |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| ET |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EU |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EV |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EW |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EX |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EY |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| EZ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FA |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FB |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FC |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FD |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FE |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FF |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FG |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FH |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FI |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FJ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FK |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FL |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FM |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FN |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FO |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FP |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FQ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FR |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FS |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FT |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FU |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FV |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FW |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FX |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FY |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| FZ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GA |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GB |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GC |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GD |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GE |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GF |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GG |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GH |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GI |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GJ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GK |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GL |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GM |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GN |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GO |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GP |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GQ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GR |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GS |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GT |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GU |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GV |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GW |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GX |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GY |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| GZ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HA |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HB |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HC |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HD |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HE |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HF |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HG |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HH |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HI |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HJ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HK |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HL |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HM |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HN |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HO |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HP |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HQ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HR |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HS |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HT |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HU |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HV |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HW |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HX |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HY |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| HZ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IA |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IB |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IC |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| ID |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IE |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IF |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IG |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IH |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| II |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IJ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IK |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IL |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IM |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IN |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IO |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IP |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IQ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IR |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IS |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IT |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IU |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IV |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IW |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IX |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IY |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| IZ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JA |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JB |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JC |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JD |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JE |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JF |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JG |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JH |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JI |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JJ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JK |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JL |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JM |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JN |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JO |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JP |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JQ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JR |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JS |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JT |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JU |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JV |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JW |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JX |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JY |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| JZ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KA |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KB |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KC |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KD |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KE |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KF |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KG |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KH |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KI |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KJ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KK |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KL |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KM |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KN |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KO |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KP |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KQ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KR |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KS |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KT |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KU |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KV |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KW |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KX |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KY |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| KZ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LA |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LB |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LC |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LD |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LE |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LF |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LG |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LH |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LI |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LJ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LK |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LL |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LM |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LN |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LO |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LP |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LQ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LR |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LS |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LT |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LU |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LV |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LW |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LX |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LY |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| LZ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| MA |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| MB |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| MC |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| MD |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| ME |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| MF |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| MG |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| MH |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| MI |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| MJ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| MK |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| ML |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| MM |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| MN |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| MO |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| MP |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| MQ |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| MR |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| MS |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| MT |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| MU |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |
| MV |                    |               |                            |  |   |                    |                                |  |                                                                        |  |   |                 |                                                                                                |  |   |  |   |  |    |  |    |  |    |  |    |  |



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|   |         |  |      |                      |  |         |                       |                        |           |                                                                                               |
|---|---------|--|------|----------------------|--|---------|-----------------------|------------------------|-----------|-----------------------------------------------------------------------------------------------|
| A | CONDUIT |  | SIZE | CONDUCTORS           |  | SERVICE | FROM                  | TO                     | DUCTBANKS | NOTES                                                                                         |
|   | S40251  |  |      | EXISTING             |  | SIGNAL  | PCM-MAIN (EXISTING)   | AIT-40-251             |           |                                                                                               |
|   | S40251A |  |      | EXISTING             |  | SIGNAL  | AIT-40-251            | AE-40-251              |           |                                                                                               |
|   | S60100  |  | 1"   | #18 TSP              |  | SIGNAL  | PCM-MAIN (EXISTING)   | LIT-60-100             |           | THU SIGNAL CABLE TRAY - MAIN TREATMENT BUILDING                                               |
|   | S60132  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-MAIN (EXISTING)   | LIT-60-132, LIT-60-142 | DB-8      | THRU SIGNAL CABLE TRAY - MAIN TREATMENT BUILDING                                              |
|   | S60132A |  | 1"   | MANUFACTURER'S CABLE |  | SIGNAL  | LIT-60-132            | LE-60-132              |           |                                                                                               |
|   | S60142  |  | 1"   | MANUFACTURER'S CABLE |  | SIGNAL  | LIT-60-142            | LE-60-142              |           |                                                                                               |
|   | S60151  |  | 1"   | #18 TSP              |  | SIGNAL  | MCC-MAIN              | LCP-60-151             |           | ATTEMPT TO RESUE EXISTING CONDUIT, OTHERWISE THRU SIGNAL CABLE TRAY - MAIN TREATMENT BUILDING |
|   | S60301  |  |      | EXISTING             |  | SIGNAL  | PCM-MAIN (EXISTING)   | WIT-60-301 (EXISTING)  |           | THRU SIGNAL CABLE TRAY - MAIN TREATMENT BUILDING                                              |
|   | S60301A |  |      | EXISTING             |  | SIGNAL  | WIT-60-301 (EXISTING) | WE-60-301 (EXISTING)   |           | THRU SIGNAL CABLE TRAY - 301 MAIN TREATMENT BUILDING                                          |
| B | S60311  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-MAIN (EXISTING)   | VCP-60-311             |           | BID ALTERNATE A                                                                               |
|   | S70102  |  | 1"   | #18 TSP              |  | SIGNAL  | PCM-CHEM              | LIT-70-102             |           |                                                                                               |
|   | S70102A |  | 1"   | MANUFACTURER'S CABLE |  | SIGNAL  | LIT-70-102            | LE-70-102              |           |                                                                                               |
|   | S70102B |  | 1"   | 4 #18 TSP            |  | SIGNAL  | PCM-CHEM              | LCP-70-102             |           |                                                                                               |
|   | S70112  |  | 1"   | #18 TSP              |  | SIGNAL  | PCM-CHEM              | LIT-70-112             |           |                                                                                               |
|   | S70112A |  | 1"   | MANUFACTURER'S CABLE |  | SIGNAL  | LIT-70-112            | LE-70-112              |           |                                                                                               |
|   | S70121  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-121             |           |                                                                                               |
|   | S70122  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-122             |           |                                                                                               |
|   | S70123  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-123             |           |                                                                                               |
|   | S70124  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-124             |           |                                                                                               |
| C | S70125  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-125             |           |                                                                                               |
|   | S70202  |  | 1"   | #18 TSP              |  | SIGNAL  | PCM-CHEM              | LIT-70-202             |           |                                                                                               |
|   | S70202A |  | 1"   | MANUFACTURER'S CABLE |  | SIGNAL  | LIT-70-202            | LE-70-202              |           |                                                                                               |
|   | S70202B |  | 1"   | 4 #18 TSP            |  | SIGNAL  | PCM-CHEM              | LCP-70-202             |           |                                                                                               |
|   | S70221  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-221             |           |                                                                                               |
|   | S70222  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-222             |           |                                                                                               |
|   | S70302  |  | 1"   | #18 TSP              |  | SIGNAL  | PCM-CHEM              | LIT-70-302             |           |                                                                                               |
|   | S70302A |  | 1"   | MANUFACTURER'S CABLE |  | SIGNAL  | LIT-70-302            | LE-70-302              |           |                                                                                               |
|   | S70302B |  | 1"   | 4 #18 TSP            |  | SIGNAL  | PCM-CHEM              | LCP-70-302             |           |                                                                                               |
|   | S70321  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-321             |           |                                                                                               |
| D | S70322  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-322             |           |                                                                                               |
|   | S70323  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-323             |           |                                                                                               |
|   | S70324  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-324             |           |                                                                                               |
|   | S70402  |  | 1"   | #18 TSP              |  | SIGNAL  | PCM-CHEM              | LIT-70-402             |           |                                                                                               |
|   | S70402A |  | 1"   | MANUFACTURER'S CABLE |  | SIGNAL  | LIT-70-402            | LE-70-402              |           |                                                                                               |
|   | S70421  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-421             |           |                                                                                               |
|   | S70422  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-422             |           |                                                                                               |
|   | S70502  |  | 1"   | #18 TSP              |  | SIGNAL  | PCM-CHEM              | LIT-70-502             |           |                                                                                               |
|   | S70502A |  | 1"   | MANUFACTURER'S CABLE |  | SIGNAL  | LIT-70-502            | LE-70-502              |           |                                                                                               |
|   | S70521  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-521             |           |                                                                                               |
| E | S70522  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-522             |           |                                                                                               |
|   | S70601  |  | 1"   | MANUFACTURER'S CABLE |  | SIGNAL  | WIT-70-602            | WE-70-601              |           |                                                                                               |
|   | S70602  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | WIT-70-602             |           |                                                                                               |
|   | S70602A |  | 1"   | MANUFACTURER'S CABLE |  | SIGNAL  | WIT-70-602            | WE-70-602              |           |                                                                                               |
|   | S70621  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-621             |           |                                                                                               |
|   | S70622  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-622             |           |                                                                                               |
|   | S70701  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-701             |           |                                                                                               |
|   | S70702  |  | 1"   | #18 TSP              |  | SIGNAL  | VCP-70-701            | LIT-70-702             |           |                                                                                               |
|   | S70703  |  | 1"   | #18 TSP              |  | SIGNAL  | VCP-70-701            | PIT-70-703             |           |                                                                                               |
|   | S70721  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-721             |           |                                                                                               |
| F | S70722  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-722             |           |                                                                                               |
|   | S70902  |  | 1"   | #18 TSP              |  | SIGNAL  | PCM-CHEM              | LIT-70-902             |           |                                                                                               |
|   | S70921  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-921             |           |                                                                                               |
|   | S70922  |  | 1"   | 2 #18 TSP            |  | SIGNAL  | PCM-CHEM              | VCP-70-922             |           |                                                                                               |
|   | S36000A |  | 1"   | #18 TSP              |  | SIGNAL  | LCP-36000A            | VFD-36000A             |           | THRU SIGNAL CABLE TRAY - MAIN TREATMENT BUILDING                                              |
|   | S36000B |  | 1"   | #18 TSP              |  | SIGNAL  | LCP-36000B            | VFD-36000B             |           | THRU SIGNAL CABLE TRAY - MAIN TREATMENT BUILDING                                              |
|   | S37000A |  | 1"   | #18 TSP              |  | SIGNAL  | LCP-37000A            | VFD-37000A             |           | THRU SIGNAL CABLE TRAY - MAIN TREATMENT BUILDING                                              |
|   | S37000B |  | 1"   | #18 TSP              |  | SIGNAL  | LCP-37000B            | VFD-37000B             |           | THRU SIGNAL CABLE TRAY - MAIN TREATMENT BUILDING                                              |
|   |         |  |      |                      |  |         |                       |                        |           |                                                                                               |
|   |         |  |      |                      |  |         |                       |                        |           |                                                                                               |
|   |         |  |      |                      |  |         |                       |                        |           |                                                                                               |
|   |         |  |      |                      |  |         |                       |                        |           |                                                                                               |
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| COMMUNICATION CONDUIT |      |                      |         |                     |                       |           |                                                                                               |   |  |   |  |  |  |
| CONDUIT               | SIZE | CONDUCTORS           | SERVICE | FROM                | TO                    | DUCTBANKS | NOTES                                                                                         |   |  |   |  |  |  |
| F40214                | 1"   | SHIELDED CAT6        | COMMS   | PCM-MAIN (EXISTING) | AIT-40-214            |           | THRU SIGNAL CABLE TRAY - GAC BUILDING                                                         |   |  |   |  |  |  |
| F40214A               | 1"   | MANUFACTURER'S CABLE | COMMS   | AIT-40-214          | AE-40-214             |           |                                                                                               |   |  |   |  |  |  |
| F60111                |      | EXISTING             | COMMS   | NCP-MAIN (EXISTING) | VCP-60-111 (EXISTING) |           |                                                                                               |   |  |   |  |  |  |
| F60112                |      | EXISTING             | COMMS   | NCP-MAIN (EXISTING) | VCP-60-112 (EXISTING) |           |                                                                                               |   |  |   |  |  |  |
| F60121                | 1"   | SHIELDED CAT6        | COMMS   | PCM-MAIN (EXISTING) | FIT-60-121            |           | THRU SIGNAL CABLE TRAY - MAIN TREATMENT BUILDING                                              |   |  |   |  |  |  |
| F60151                | 1"   | SHIELDED CAT6        | COMMS   | PCM-MAIN (EXISTING) | FIT-60-151            |           | ATTEMPT TO REUSE EXISTING CONDUIT, OTHERWISE THRU SIGNAL CABLE TRAY - MAIN TREATMENT BUILDING |   |  |   |  |  |  |
| F60210                | 1"   | SHIELDED CAT6        | COMMS   | NCP-MAIN (EXISTING) | VCP-60-210            |           | BID ALTERNATE A                                                                               |   |  |   |  |  |  |
| F36000A               | 1"   | SHIELDED CAT6        | COMMS   | PCM-MAIN (EXISTING) | VFD-36000A            |           |                                                                                               |   |  |   |  |  |  |
| F36000B               | 1"   | SHIELDED CAT6        | COMMS   | PCM-MAIN (EXISTING) | VFD-36000B            |           |                                                                                               |   |  |   |  |  |  |
| F37000A               | 1"   | SHIELDED CAT6        | COMMS   | PCM-MAIN (EXISTING) | VFD-37000A            |           |                                                                                               |   |  |   |  |  |  |
| F37000B               | 1"   | SHIELDED CAT6        | COMMS   | PCM-MAIN (EXISTING) | VFD-37000B            |           |                                                                                               |   |  |   |  |  |  |

| SPARE CONDUIT |        |             |  |  |               |                             |  |                     |  |               |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------|--------|-------------|--|--|---------------|-----------------------------|--|---------------------|--|---------------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| CONDUIT       | SIZE   | CONDUCTORS  |  |  | SERVICE       | FROM                        |  | TO                  |  | DUCTBANKS     | NOTES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SP007         | 1"     | PULL STRING |  |  | COMMS         | PCM-MAIN                    |  | TEMP SKID 1         |  | DB-TEMP SKIDS |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SP008         | 4"     | PULL STRING |  |  | 480VAC        | SWBD-MAIN                   |  | DP-CHEM             |  | DB-70         |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SP009         | 2 - 1" | PULL STRING |  |  | 120VAC        | SWBD-MAIN                   |  | PCM-MAIN            |  | DB-40         |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SP15001       | 2"     | PULL STRING |  |  | 480VAC        | EXISTING TREATMENT BUILDING |  | IRRIGATION PUMPS    |  | DB-7          |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SP15002       | 1"     | PULL STRING |  |  | 120VAC        | EXISTING TREATMENT BUILDING |  | IRRIGATION PUMPS    |  | DB-7          |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SP15003       | 1"     | PULL STRING |  |  | 120VAC        | EXISTING TREATMENT BUILDING |  | IRRIGATION PUMPS    |  | DB-7          |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SP15004       | 1"     | PULL STRING |  |  | SIGNAL/CO MMS | EXISTING TREATMENT BUILDING |  | IRRIGATION PUMPS    |  | DB-7          |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SP60131       | 1"     | PULL STRING |  |  | 480VAC        | EXISTING TREATMENT BUILDING |  | SOLIDS HOLDING TANK |  | DB-8          |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SP60132       | 1"     | PULL STRING |  |  | 120VAC        | EXISTING TREATMENT BUILDING |  | SOLIDS HOLDING TANK |  | DB-8          |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SP60133       | 1"     | PULL STRING |  |  | SIGNAL/CO MMS | EXISTING TREATMENT BUILDING |  | SOLIDS HOLDING TANK |  | DB-8          |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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CONDUIT SCHEDULE 5A

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SHEET ADDED

NOTE:  
THE CONDUIT SCHEDULE HAS BEEN UPDATED;  
ALL CHANGES ARE MADE IN RED. IF THIS NOTE  
IS NOT IN RED THIS SHEET HAS NOT BEEN  
COPIED IN COLOR.

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|     |            |     |             |  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|     |            |     |             |  | DESIGNED<br>A. ROGERS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |            |     |             |  | DRAWN<br>D. LEAVITT   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |            |     |             |  | CHECKED<br>A. ROGERS  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |            |     |             |  | DATE<br>AUGUST 2026   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1   | 10/09/2026 | LAR | BID ADDENDA |  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| REV | DATE       | BY  | DESCRIPTION |  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



MOUNTAIN REGIONAL WATER SSD

SIGNAL HILL WTP OPTIMIZATION

ELECTRICAL - POWER DISTRIBUTION

CONDUIT SCHEDULE 5A

|                                                          |                       |
|----------------------------------------------------------|-----------------------|
| VERIFY SCALES                                            | JOB NO.<br>203230     |
| BAR IS ONE INCH ON ORIGINAL DRAWING                      | DRAWING NO.<br>05E05A |
| 0 1"                                                     | SHEET NO.<br>OF       |
| IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY |                       |



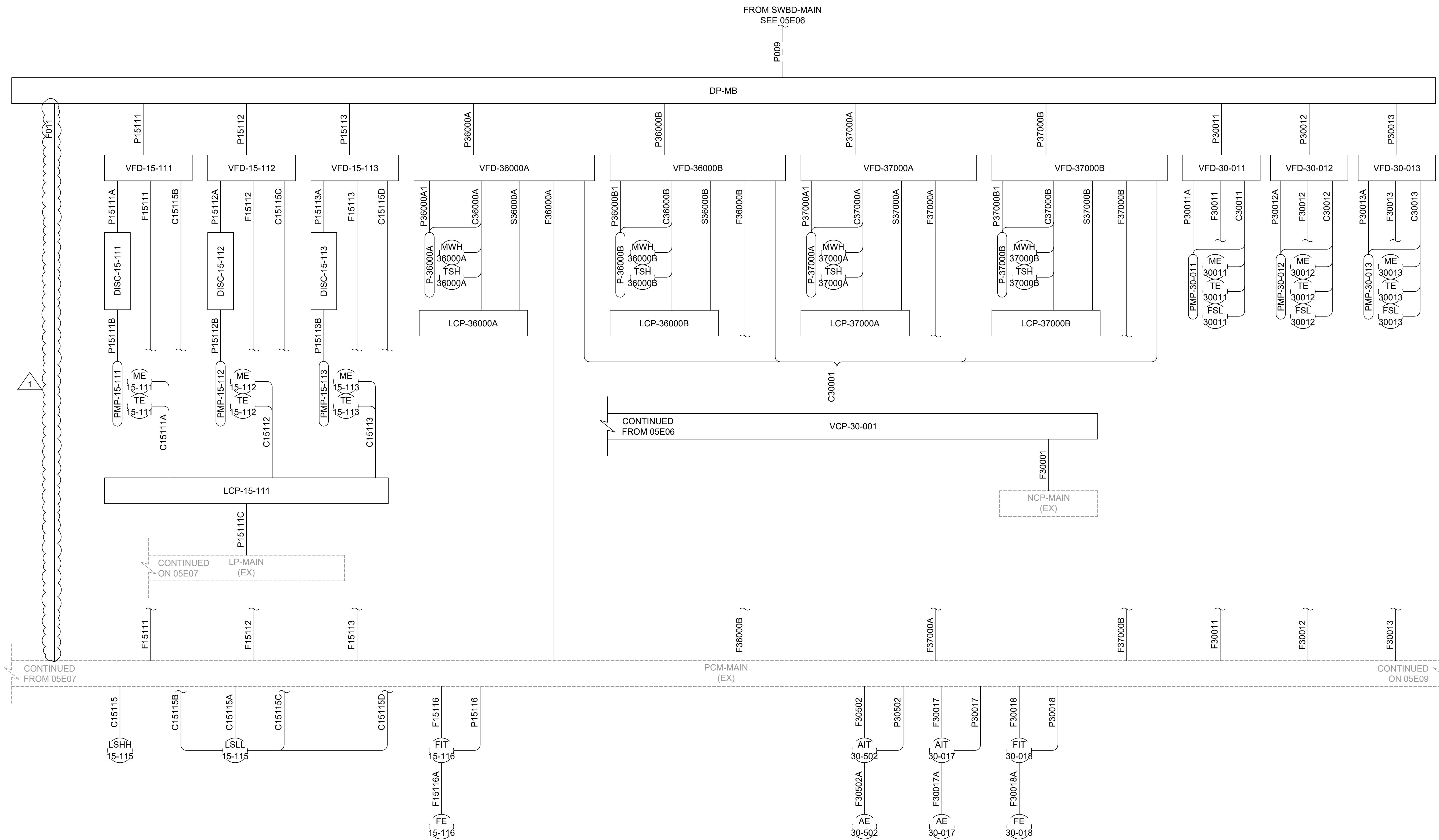






|                                                                                                                                                                                                                                          |                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <p><b>VERIFY SCALES</b></p> <p>BAR IS ONE INCH ON ORIGINAL DRAWING</p> <p>0  1"</p> <p>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</p> | <p><b>JOB NO.</b></p> <p>203230</p>    |
|                                                                                                                                                                                                                                          | <p><b>DRAWING NO.</b></p> <p>05E07</p> |
| <p><b>SHEET NO.</b></p> <p>OF</p>                                                                                                                                                                                                        |                                        |





## CONDUIT DEVELOPMENT 3



MOUNTAIN REGIONAL WATER SSD  
 SIGNAL HILL WTP OPTIMIZATION  
 ELECTRICAL - POWER DISTRIBUTION  
 CONDUIT DEVELOPMENT 3

**skm** 533 W 2600 S, Suite 25  
Bountiful, Utah 84010  
Phone: (801) 677-0011  
[www.skmeng.com](http://www.skmeng.com)

|             |  |  |
|-------------|--|--|
| DESIGNED    |  |  |
| A. ROGERS   |  |  |
| DRAWN       |  |  |
| D. LEAVITT  |  |  |
| CHECKED     |  |  |
| A. ROGERS   |  |  |
| DATE        |  |  |
| AUGUST 2026 |  |  |

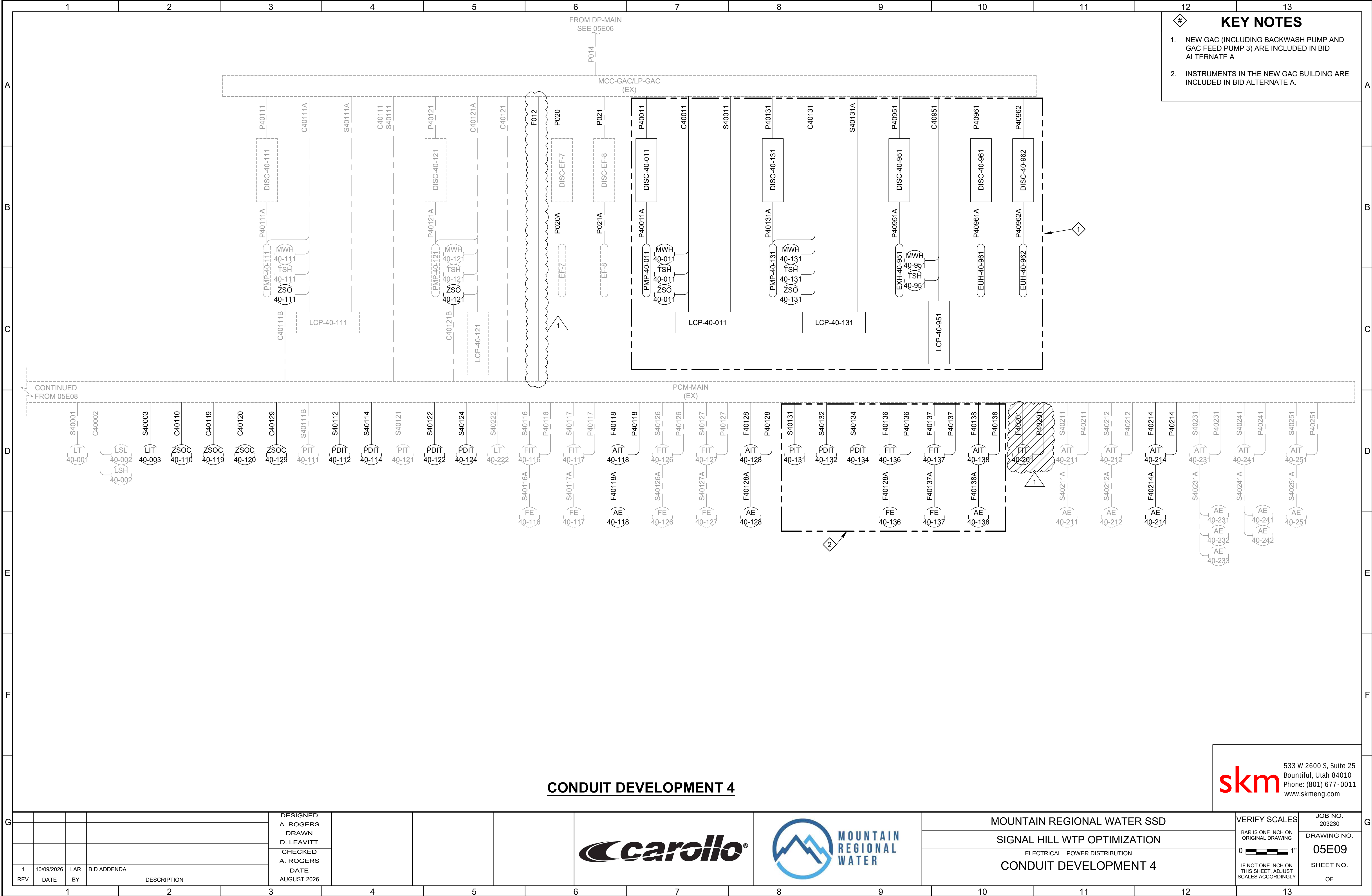
The logo for Mountain Regional Water features a stylized mountain range in shades of blue, enclosed within a circular border. To the right of the graphic, the words "MOUNTAIN REGIONAL WATER" are written in a bold, blue, sans-serif font, stacked vertically.

|                                                                                                                                                                                                                                          |                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <p><b>VERIFY SCALES</b></p> <p>BAR IS ONE INCH ON ORIGINAL DRAWING</p> <p>0  1"</p> <p>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</p> | <p><b>JOB NO.</b><br/>203230</p>         |
|                                                                                                                                                                                                                                          | <p><b>DRAWING NO.</b><br/><br/>05E08</p> |
|                                                                                                                                                                                                                                          | <p><b>SHEET NO.</b><br/><br/>OF</p>      |



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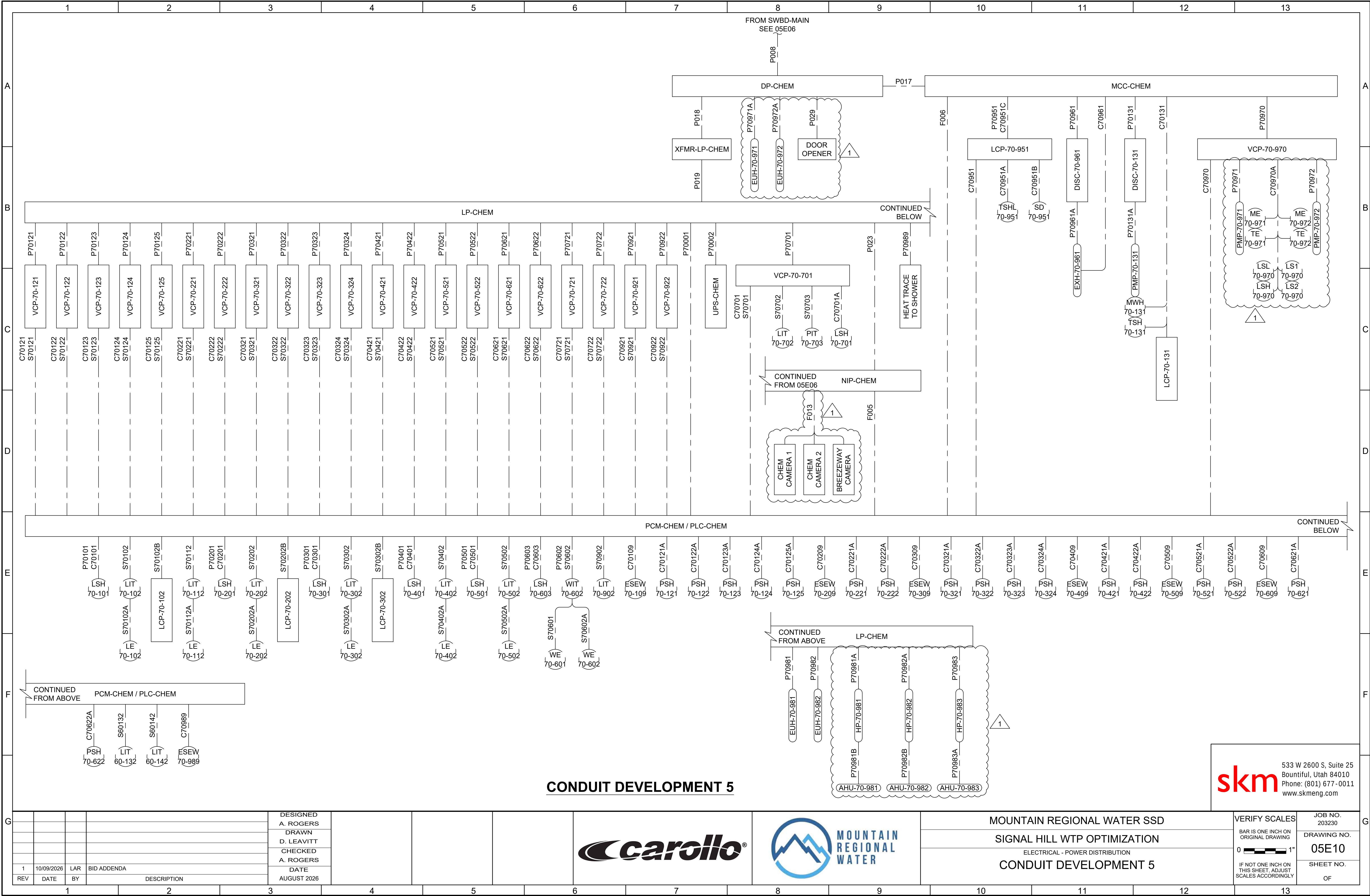
LAST SAVED BY: daniel.leavitt





Plot Date: 10/12/2026 12:28:47 PM

LAST SAVED BY: daniel.leavitt





Plot Date: 10/9/2026 9:13:56 PM

A

B

C

D

E

F

LAST SAVED BY: daniel.leavitt

G

A

B

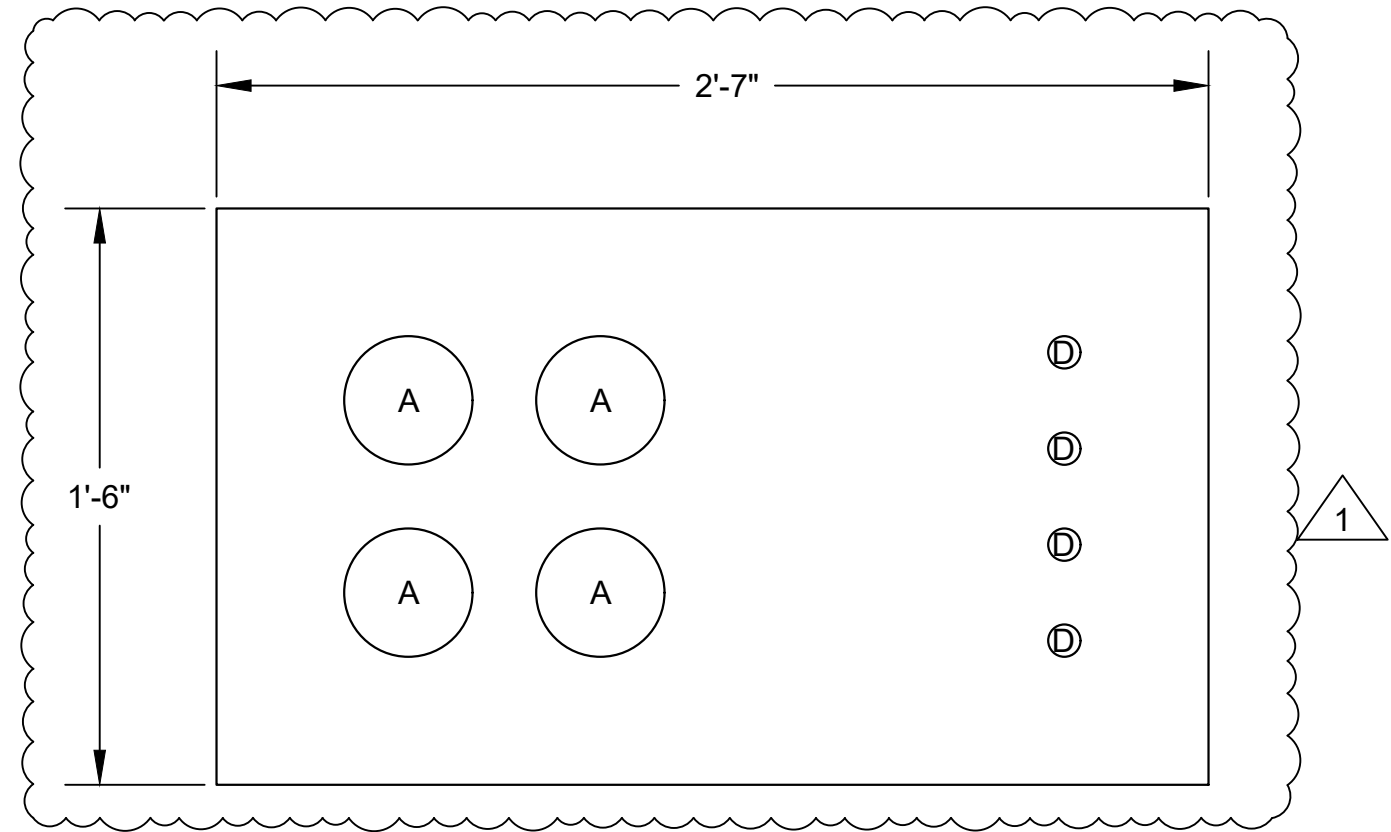
C

D

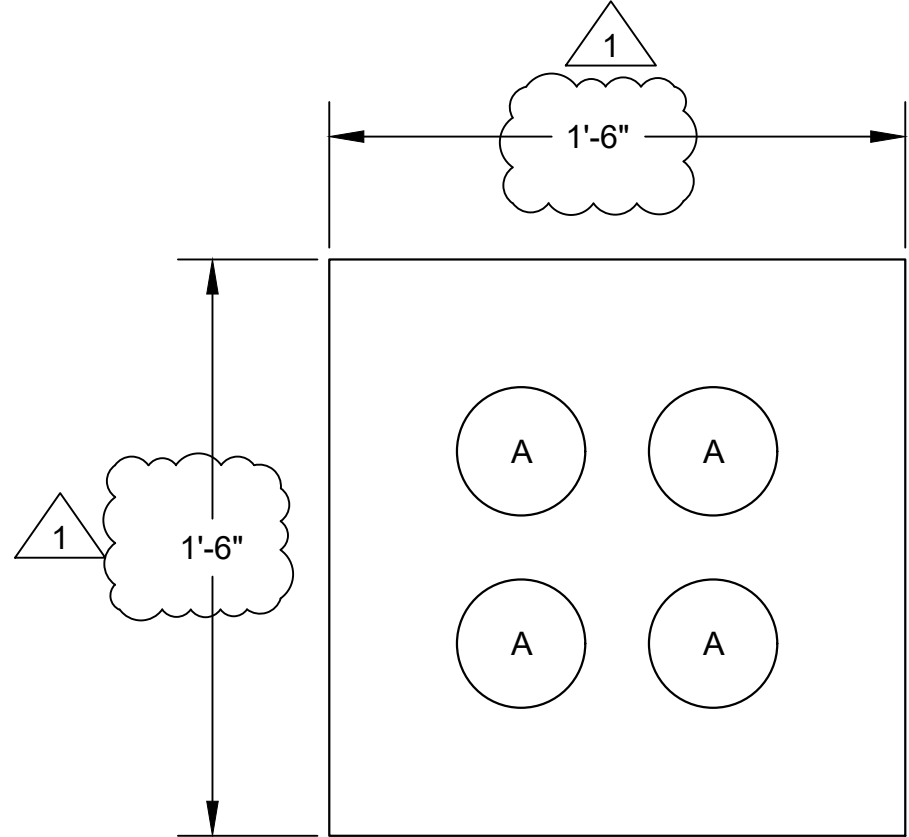
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F

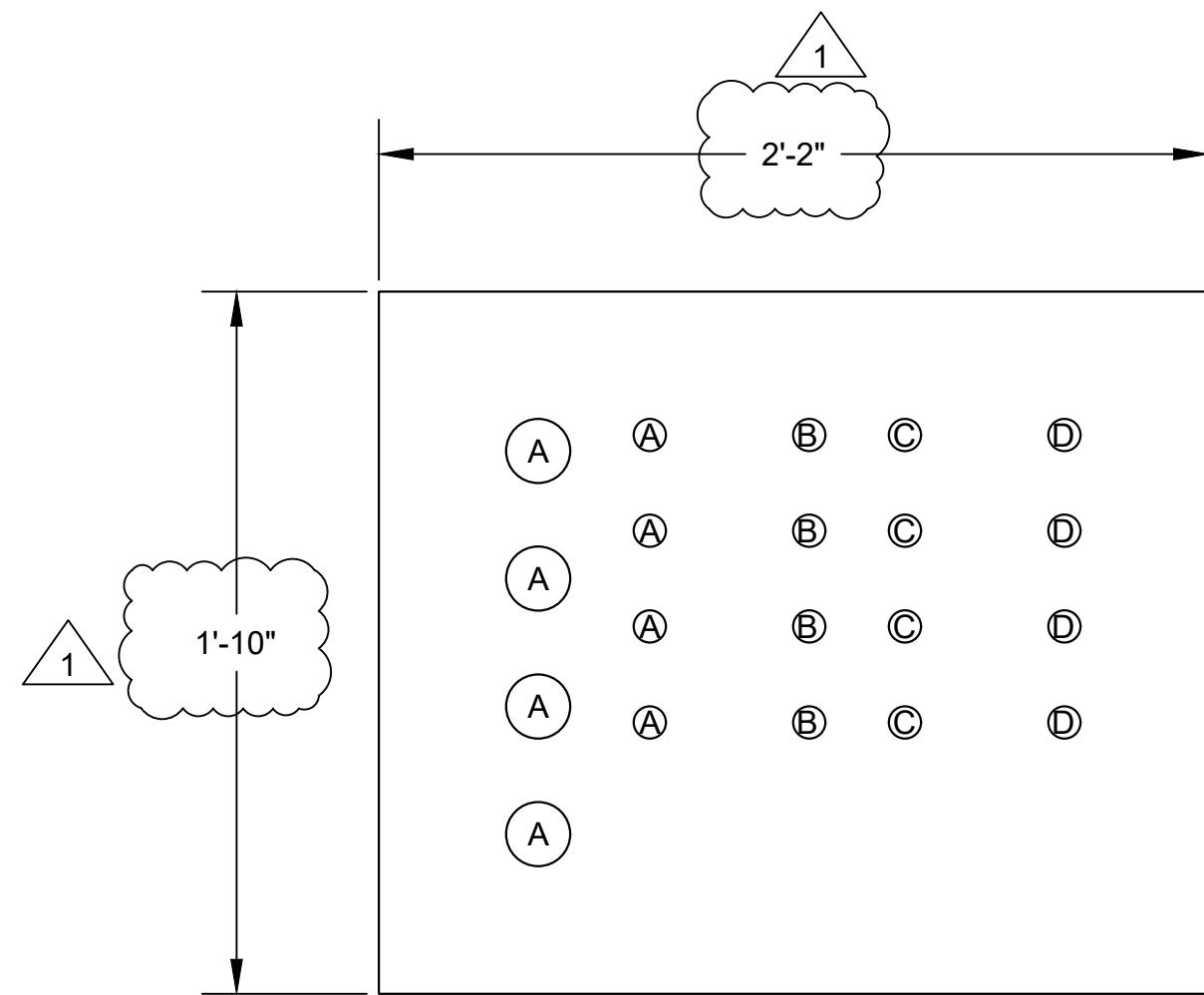
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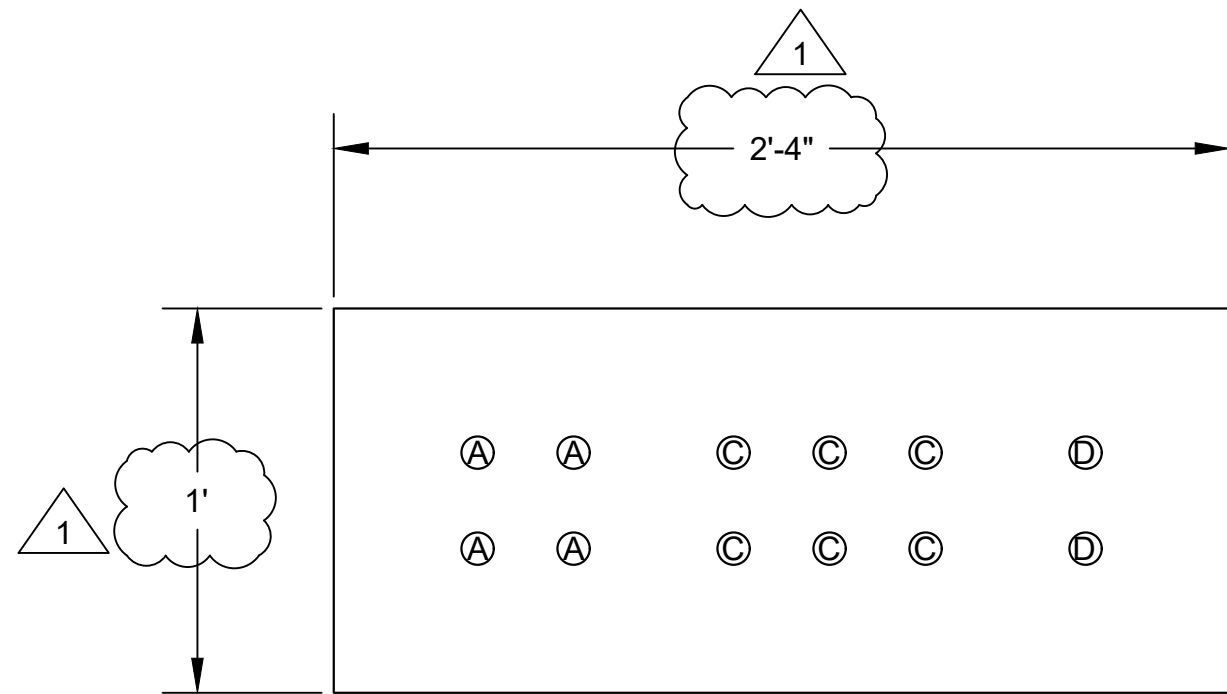
DB-40



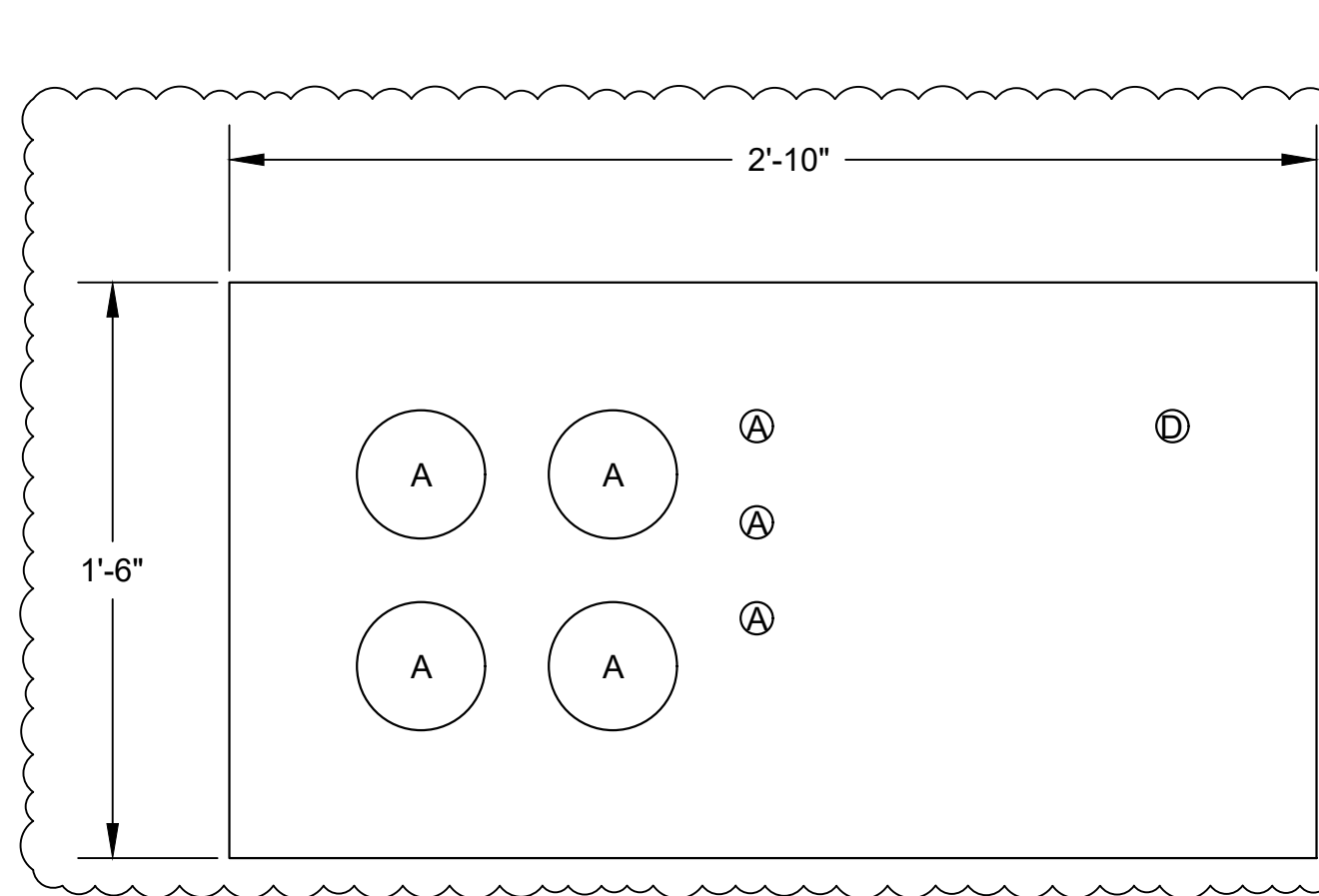
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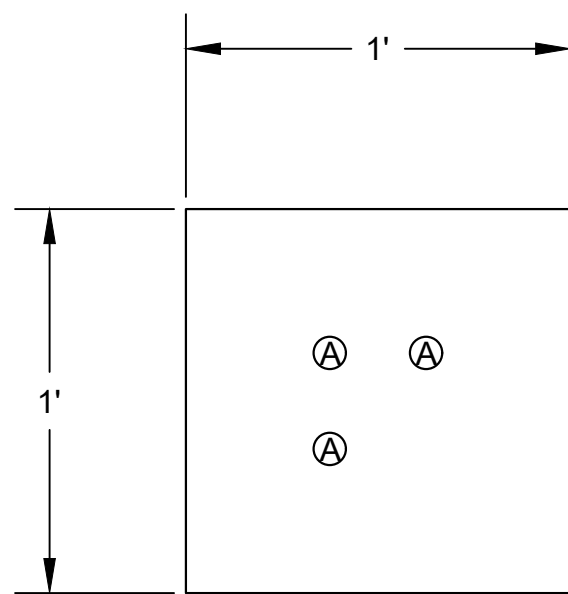
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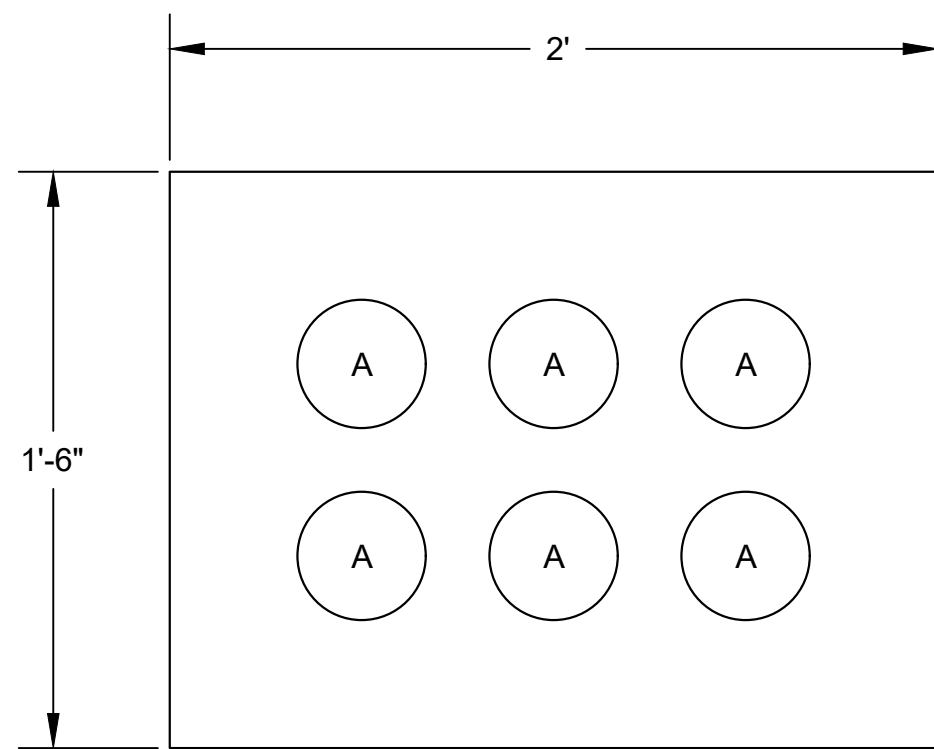
DB-8



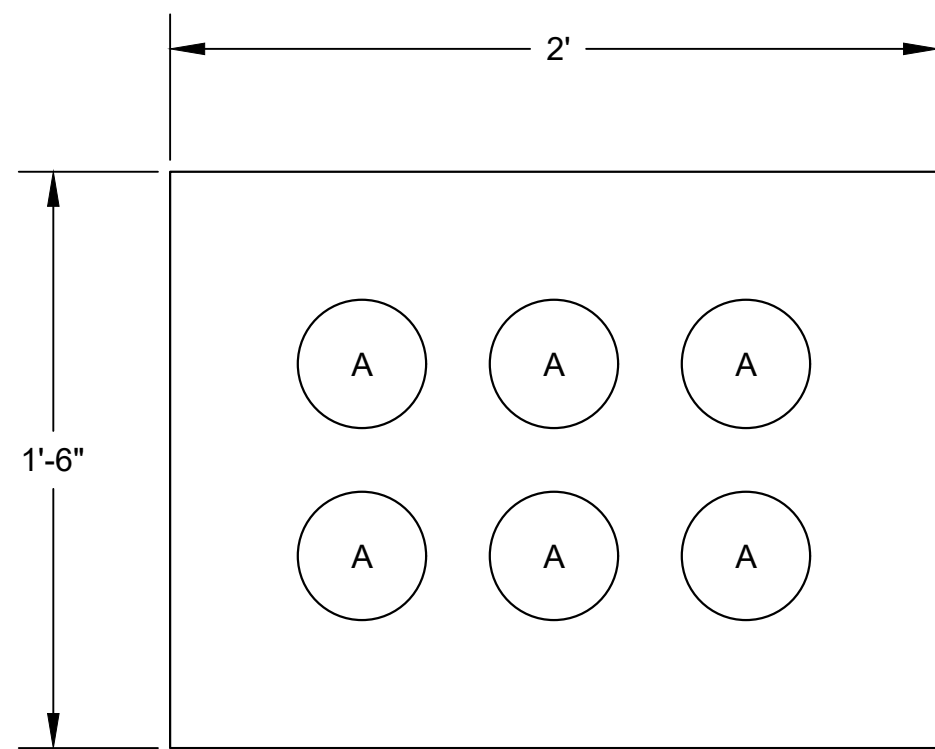
DB-TEMP SKIDS 1



DB-TEMP PUMPS 1 2



DB-UTILITY



DB-9

## DUCT BANK CROSS SECTIONS

### CONDUIT DESIGNATION KEY:

- A 277/480VAC
- B 120/208/240VAC
- C 120VAC CONTROL
- D SIGNAL, COMMUNICATION, OR 50VDC

### DISTANCES BETWEEN CONDUITS IN DUCTBANKS

|                     | 480VAC | 120VAC | 120VAC CONTROL | SIGNAL | EDGE OF CONCRETE DB |
|---------------------|--------|--------|----------------|--------|---------------------|
| 480VAC              | 2"     | 4"     | 4"             | 12"    | 4"                  |
| 120/208/240VAC      | 4"     | 2"     | 2"             | 6"     | 4"                  |
| 120VAC CONTROL      | 4"     | 2"     | 2"             | 4"     | 4"                  |
| SIGNAL/COMMS/50VDC  | 12"    | 6"     | 4"             | 2"     | 4"                  |
| EDGE OF CONCRETE DB | 4"     | 4"     | 4"             | 4"     | NA                  |

### KEY NOTES

- CONTRACTOR SHALL INSTALL THE TEMPORARY DUCT BANK USING COMPACTED SAND.
- THIS IS AN EXTENSION FROM DB-TEMP SKIDS AFTER THE LINES SPLIT.



533 W 2600 S, Suite 25  
Bountiful, Utah 84010  
Phone: (801) 677-0011  
www.skmeng.com

|             |             |
|-------------|-------------|
| DESIGNED    | A. ROGERS   |
| DRAWN       | D. LEAVITT  |
| CHECKED     | A. ROGERS   |
| DATE        | AUGUST 2026 |
| REV         | 1           |
| DATE        | 10/09/2026  |
| BY          | LAR         |
| DESCRIPTION | BID ADDENDA |



MOUNTAIN REGIONAL WATER SSD

SIGNAL HILL WTP OPTIMIZATION

ELECTRICAL - POWER DISTRIBUTION

DUCT BANK CROSS SECTIONS

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

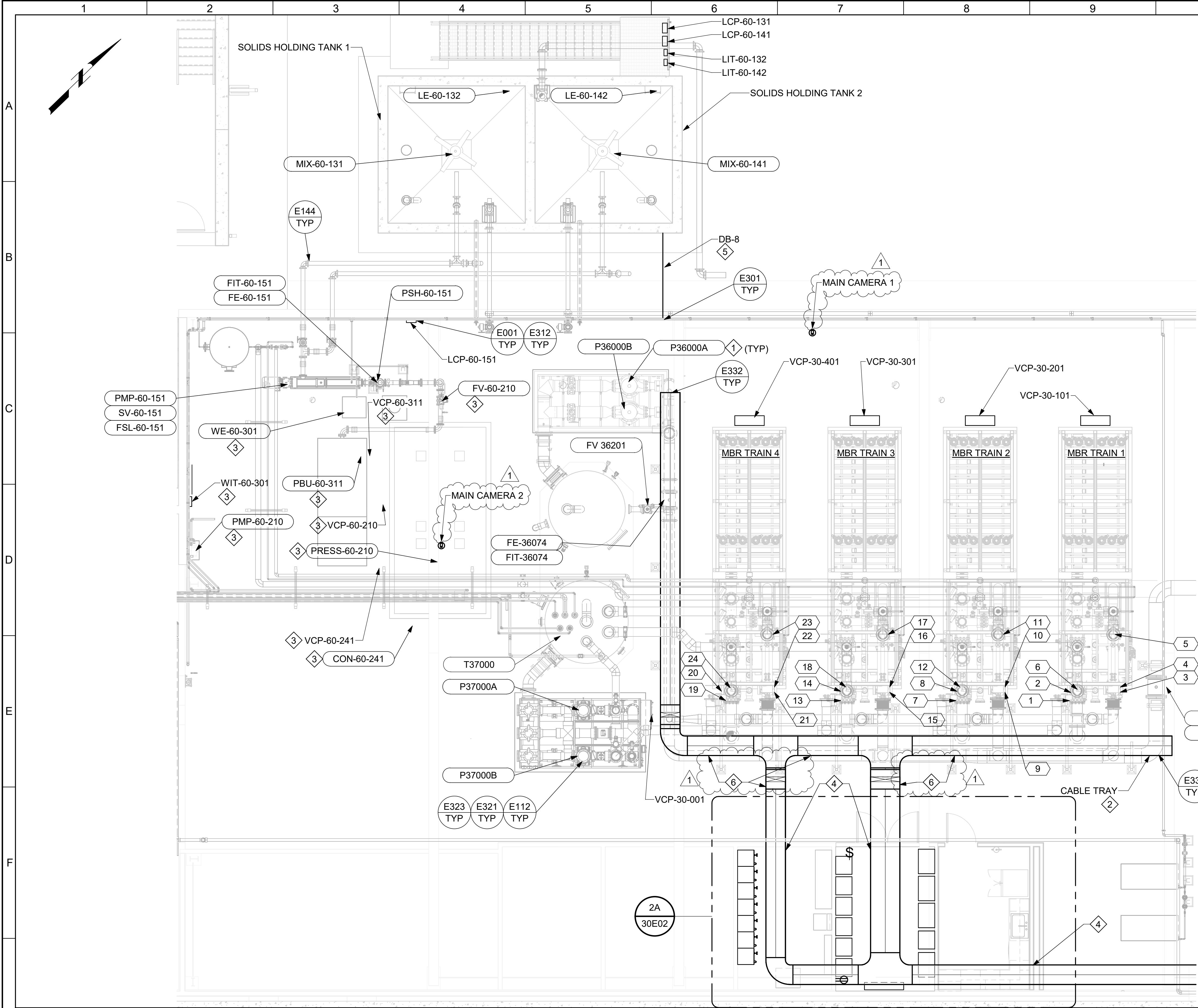
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 203230

DRAWING NO. 05E11

SHEET NO. OF





- NOTES:**
- CONDUIT SHALL ONLY RUN EXPOSED WHERE NECESSARY. ALL EXPOSED CONDUIT SHALL BE PVC COATED. PANELS SHALL BE STAINLESS STEEL NEMA 4X.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CONDUIT DETAILS AND A CONDUIT ROUTING PLAN TO THE ELECTRICAL ENGINEER FOR APPROVAL.
  - LIMIT EXPOSED CONDUIT, 90° BENDS AND WALL PENETRATIONS. MAINTAIN SEPARATION BETWEEN SIGNAL AND POWER-CARRYING CONDUITS.

- KEYNOTES:**
- TIE NEW 480VAC EQUIPMENT AND PIPING STEEL TO BUILDING GROUND GRID.
  - CABLE TRAY TO UTILIZE PIPE SUPPORTS FOR SUPPORT. COORDINATE AND SEE MECHANICAL DRAWINGS FOR PIPE SUPPORT REQUIREMENTS.
  - MECHANICAL DEWATERING ARE INCLUDED IN BID ALTERNATE A.
  - CABLE TRAY THAT EXTENDS ABOVE THE ELECTRICAL ROOMS AND LAB ROOM ARE TO BE MOUNTED ON THE MEZZANINE FLOOR.
  - DB-8 SHALL BE USED TO ROUTE THE EQUIPMENT CONDUCTORS FROM THE CABLE TRAY TO THE NEW SOLIDS HOLDING TANK BUILDING.
  - TWO SETS OF TRAYS TO BE RUN. ONE FOR AC WITH A DIVIDER BETWEEN 480V AND 120V AND A SEPARATE TRAY FOR DC AND COMMUNICATIONS CABLING.

**KEY EQUIPMENT TAGS:**

| MBR TRAIN 1 |             | MBR TRAIN 3 |             |
|-------------|-------------|-------------|-------------|
| 1           | FV-31299.1  | 13          | FV-31299.3  |
| 2           | FV-31401.1  | 14          | FV-31401.3  |
| 3           | FV-31201.1  | 15          | FV-31201.3  |
| 4           | FV-31099B.1 | 16          | FV-31099B.3 |
| 5           | FV-31252B.1 | 17          | FV-31252B.3 |
| 6           | FV-31452B.1 | 18          | FV-31452B.3 |

| MBR TRAIN 2 |             | MBR TRAIN 4 |             |
|-------------|-------------|-------------|-------------|
| 7           | FV-31299.2  | 19          | FV-31299.4  |
| 8           | FV-31401.2  | 20          | FV-31401.4  |
| 9           | FV-31201.2  | 21          | FV-31201.4  |
| 10          | FV-31099B.2 | 22          | FV-31099B.4 |
| 11          | FV-31252B.2 | 23          | FV-31252B.4 |
| 12          | FV-31452B.2 | 24          | FV-31452B.4 |

**ELECTRICAL LEGEND**

① VERKADA DOME CAMERA. MOUNT AT 15'-0" AFF.



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|                       |           |     |             |
|-----------------------|-----------|-----|-------------|
| DESIGNED<br>A. ROGERS |           |     |             |
| DRAWN<br>D. LEAVITT   |           |     |             |
| CHECKED<br>A. ROGERS  |           |     |             |
| DATE<br>AUGUST 2026   |           |     |             |
| 1                     | 10/9/2026 | LAR | BID ADDENDA |
| REV                   | DATE      | BY  | DESCRIPTION |

**MOUNTAIN REGIONAL WATER SSD**

**SIGNAL HILL WTP OPTIMIZATION**

ELECTRICAL - LAYOUT

**MEMBRANE & SOLIDS HANDLING ELECTRICAL PLAN**

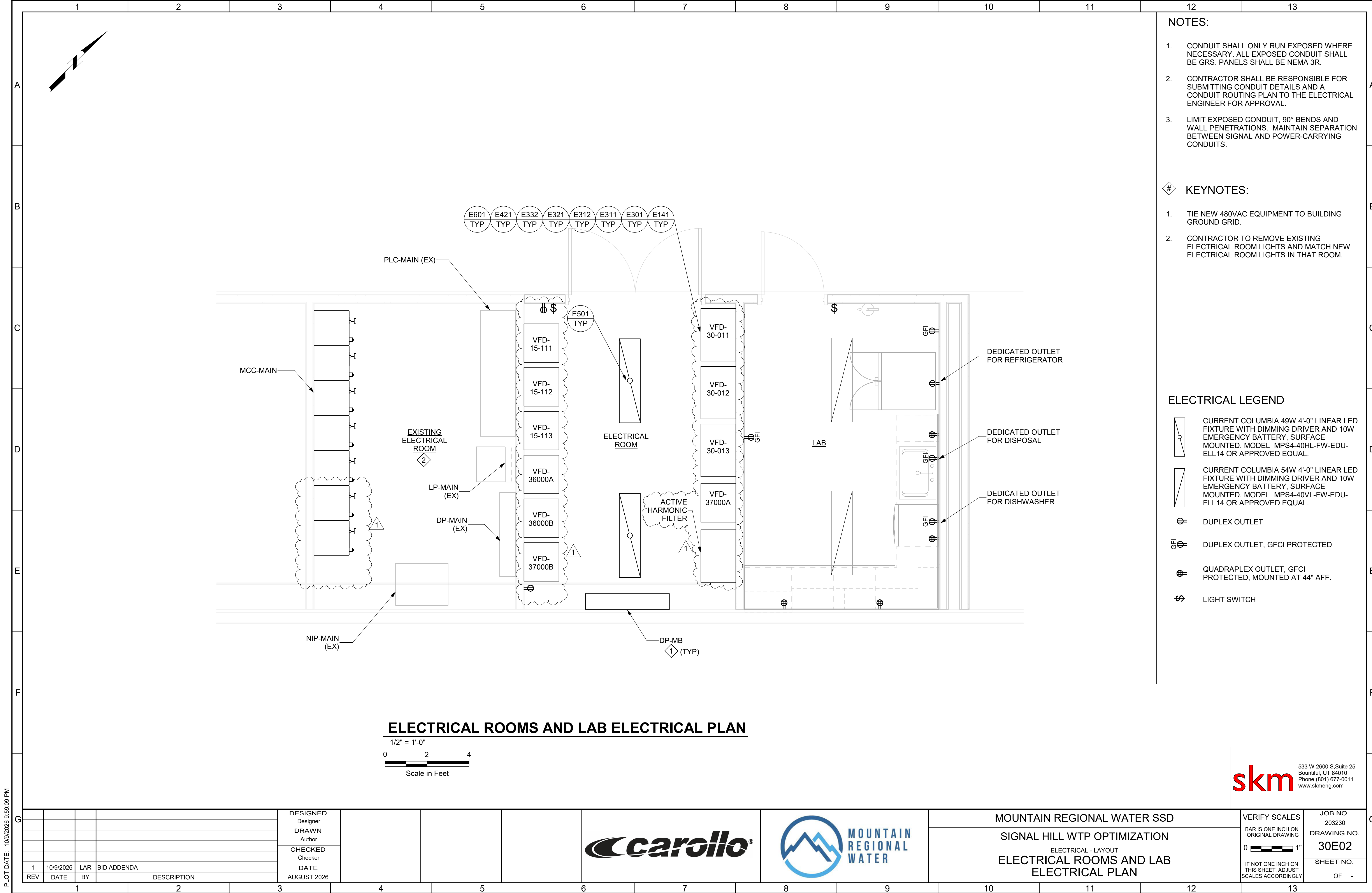
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BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.  
203230

DRAWING NO.  
**30E01**

SHEET NO.  
OF -





- NOTES:**
- CONDUIT SHALL ONLY RUN EXPOSED WHERE NECESSARY. ALL EXPOSED CONDUIT SHALL BE GRS. PANELS SHALL BE NEMA 3R.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CONDUIT DETAILS AND A CONDUIT ROUTING PLAN TO THE ELECTRICAL ENGINEER FOR APPROVAL.
  - LIMIT EXPOSED CONDUIT, 90° BENDS AND WALL PENETRATIONS. MAINTAIN SEPARATION BETWEEN SIGNAL AND POWER-CARRYING CONDUITS.

- KEYNOTES:**
- TIE NEW 480VAC EQUIPMENT TO BUILDING GROUND GRID.
  - CONTRACTOR TO REMOVE EXISTING ELECTRICAL ROOM LIGHTS AND MATCH NEW ELECTRICAL ROOM LIGHTS IN THAT ROOM.

- ELECTRICAL LEGEND**
- CURRENT COLUMBIA 49W 4'-0" LINEAR LED FIXTURE WITH DIMMING DRIVER AND 10W EMERGENCY BATTERY, SURFACE MOUNTED. MODEL MPS4-40HL-FW-EDU-ELL14 OR APPROVED EQUAL.
  - CURRENT COLUMBIA 54W 4'-0" LINEAR LED FIXTURE WITH DIMMING DRIVER AND 10W EMERGENCY BATTERY, SURFACE MOUNTED. MODEL MPS4-40VL-FW-EDU-ELL14 OR APPROVED EQUAL.
  - DUPLEX OUTLET
  - DUPLEX OUTLET, GFCI PROTECTED
  - QUADRAPLEX OUTLET, GFCI PROTECTED, MOUNTED AT 44" AFF.
  - LIGHT SWITCH

PLOT DATE: 10/9/2026 9:59:09 PM

|          |             |     |             |  |
|----------|-------------|-----|-------------|--|
| DESIGNED | Designer    |     |             |  |
| DRAWN    | Author      |     |             |  |
| CHECKED  | Checker     |     |             |  |
| DATE     | AUGUST 2026 |     |             |  |
| 1        | 10/9/2026   | LAR | BID ADDENDA |  |
| REV      | DATE        | BY  | DESCRIPTION |  |

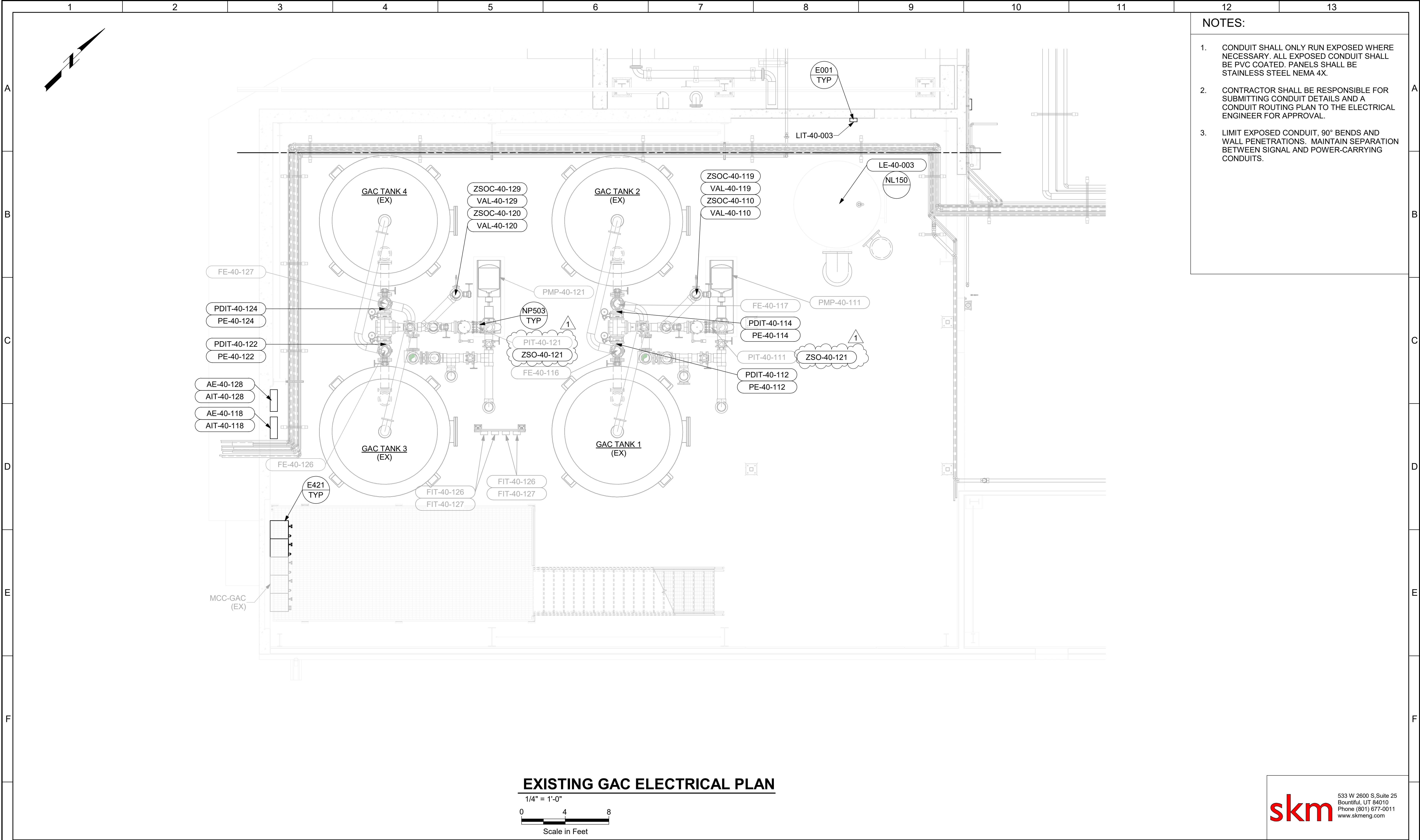
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| DESIGNED | Designer    |  |  |  |
| DRAWN    | Author      |  |  |  |
| CHECKED  | Checker     |  |  |  |
| DATE     | AUGUST 2026 |  |  |  |



|                              |
|------------------------------|
| MOUNTAIN REGIONAL WATER SSD  |
| SIGNAL HILL WTP OPTIMIZATION |
| ELECTRICAL - LAYOUT          |
| ELECTRICAL ROOMS AND LAB     |
| ELECTRICAL PLAN              |

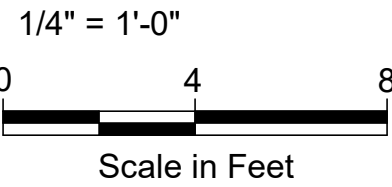
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| IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY | 30E02       |
|                                                          | SHEET NO.   |
|                                                          | OF -        |





- NOTES:
- CONDUIT SHALL ONLY RUN EXPOSED WHERE NECESSARY. ALL EXPOSED CONDUIT SHALL BE PVC COATED. PANELS SHALL BE STAINLESS STEEL NEMA 4X.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CONDUIT DETAILS AND A CONDUIT ROUTING PLAN TO THE ELECTRICAL ENGINEER FOR APPROVAL.
  - LIMIT EXPOSED CONDUIT, 90° BENDS AND WALL PENETRATIONS. MAINTAIN SEPARATION BETWEEN SIGNAL AND POWER-CARRYING CONDUITS.

EXISTING GAC ELECTRICAL PLAN



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|     |           |     |             |  |
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|     |           |     |             |  |
|     |           |     |             |  |
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| 1   | 10/9/2026 | LAR | BID ADDENDA |  |
| REV | DATE      | BY  | DESCRIPTION |  |

|          |             |
|----------|-------------|
| DESIGNED | A. ROGERS   |
| DRAWN    | D. LEAVITT  |
| CHECKED  | A. ROGERS   |
| DATE     | AUGUST 2026 |

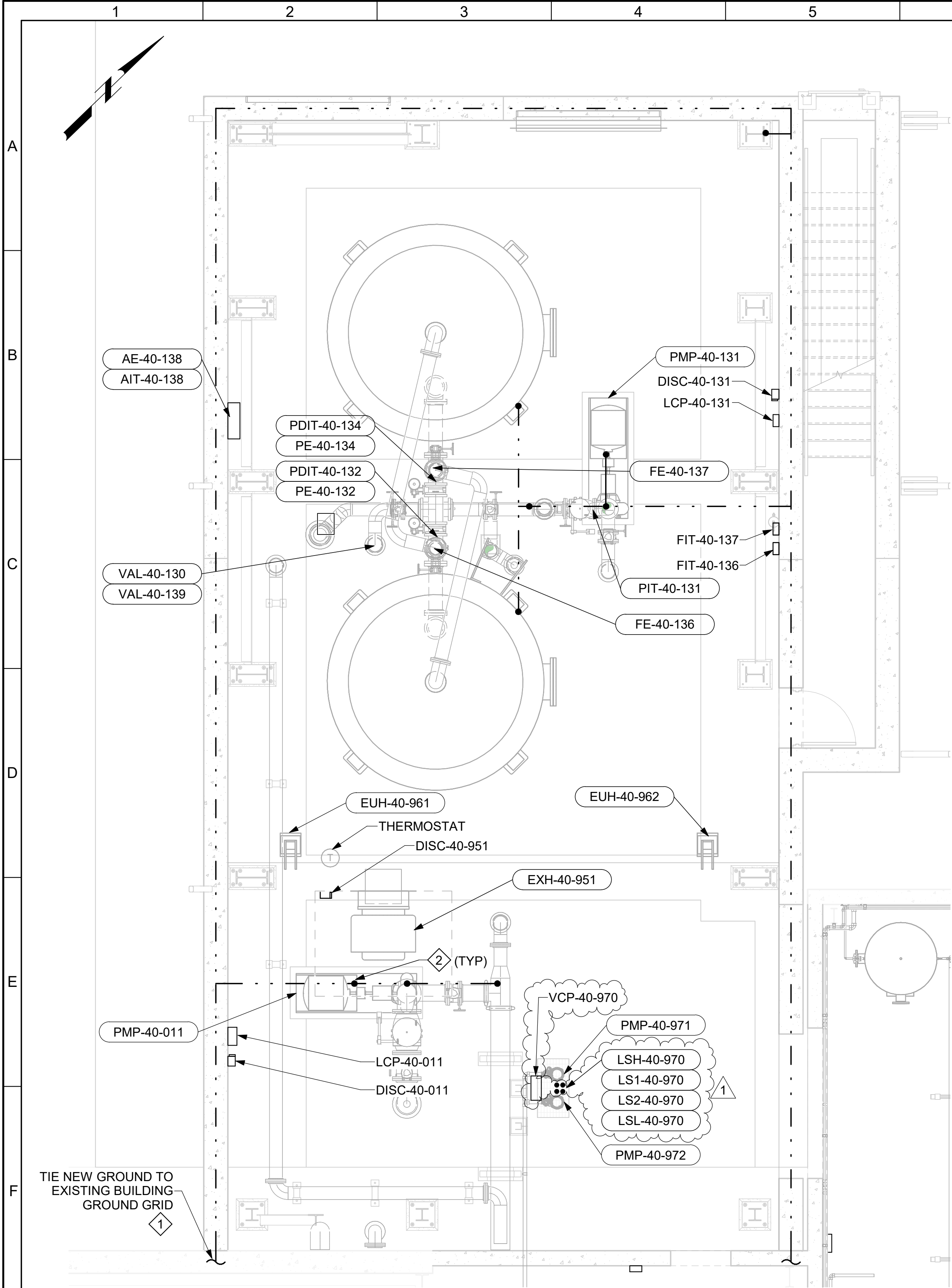


MOUNTAIN REGIONAL WATER SSD  
SIGNAL HILL WTP OPTIMIZATION  
ELECTRICAL - LAYOUT  
EXISTING GAC (BASE BID) ELECTRICAL PLAN

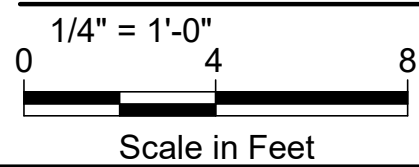
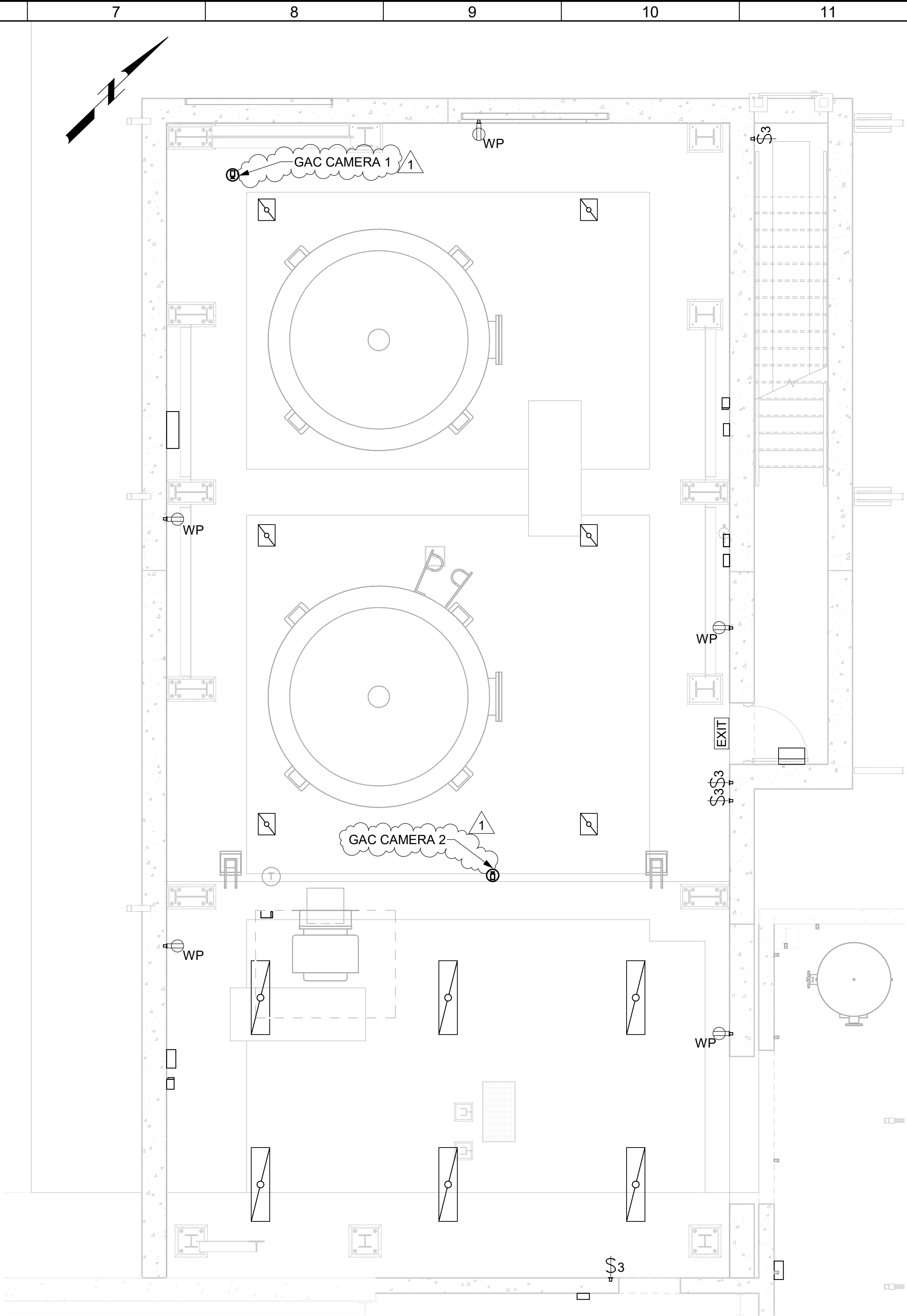
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0 1"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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| SHEET NO.   | OF -   |

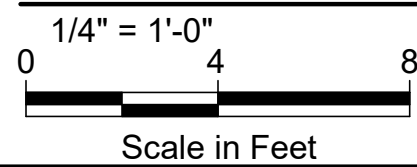




NEW GAC ELECTRICAL PLAN



NEW GAC LIGHTING PLAN



NOTES:

- CONDUIT SHALL ONLY RUN EXPOSED WHERE NECESSARY. ALL EXPOSED CONDUIT SHALL BE PVC COATED. PANELS SHALL BE STAINLESS STEEL NEMA 4X.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CONDUIT DETAILS AND A CONDUIT ROUTING PLAN TO THE ELECTRICAL ENGINEER FOR APPROVAL.
- LIMIT EXPOSED CONDUIT, 90° BENDS AND WALL PENETRATIONS. MAINTAIN SEPARATION BETWEEN SIGNAL AND POWER-CARRYING CONDUITS.
- ALL WORK SHOWN ON THIS SHEET IS INCLUDED IN BID ALTERNATE A.

KEYNOTES:

- CONTRACTOR SHALL PROVIDE 2 CONCRETE ENCASED ELECTRODES IN FOOTING PER SPECIFICATIONS 60' PER CONDUCTOR.
- BOND ALL BUILDING AND PIPING STEEL TO GROUND PER NEC.

ELECTRICAL LEGEND

- CURRENT ALBEO 96.5W LED LOW BAY LIGHT FIXTURE WITH DIMMING AND EMERGENCY DRIVER. MOUNT AT 21'-0" AFF ON THE WEST SIDE AND 19'-0" AFF ON THE EAST SIDE. MODEL ABV4-0-18-48-W1-QV-ST-K-Q-WHITE-E20 OR APPROVED EQUAL.
- CURRENT EVOLVE LED 36W WALL LIGHT (WALL PACK) WITH BATTERY BACKUP, PHOTOCELL CONTROL AND DARK SKY COMPLIANCE. MODEL EWAS-01-1-B3-AW-7-40-D-3-FM-DKBZ-EMBR OR APPROVED EQUAL.
- CURRENT ALBEO 34W 1'x4' WET LOCATION LED FIXTURE WITH EMERGENCY DRIVER. MOUNT AT 8'-0" AFF. MODEL ALR2-0-4T-05-T-48-1D-S-Q-Q-E-ST-K-Q-W OR APPROVED EQUAL.
- CHLORIDE VE SERIES EXIT SIGN. MODEL VEGW OR APPROVED EQUAL.
- LIGHT SWITCH
- 3-POLE SWITCH
- DUPLEX OUTLET, GFCI PROTECTED
- WP: WEATHER-PROOF
- VERKADA DOME CAMERA

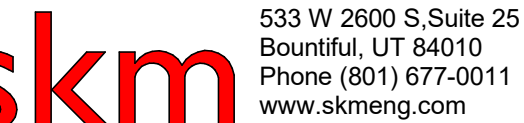


MOUNTAIN REGIONAL WATER SSD

SIGNAL HILL WTP OPTIMIZATION

ELECTRICAL - LAYOUT

NEW GAC (BID ALTERNATE A)  
ELECTRICAL & LIGHTING PLAN



533 W 2600 S, Suite 25  
Bountiful, UT 84010  
Phone (801) 677-0011  
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VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

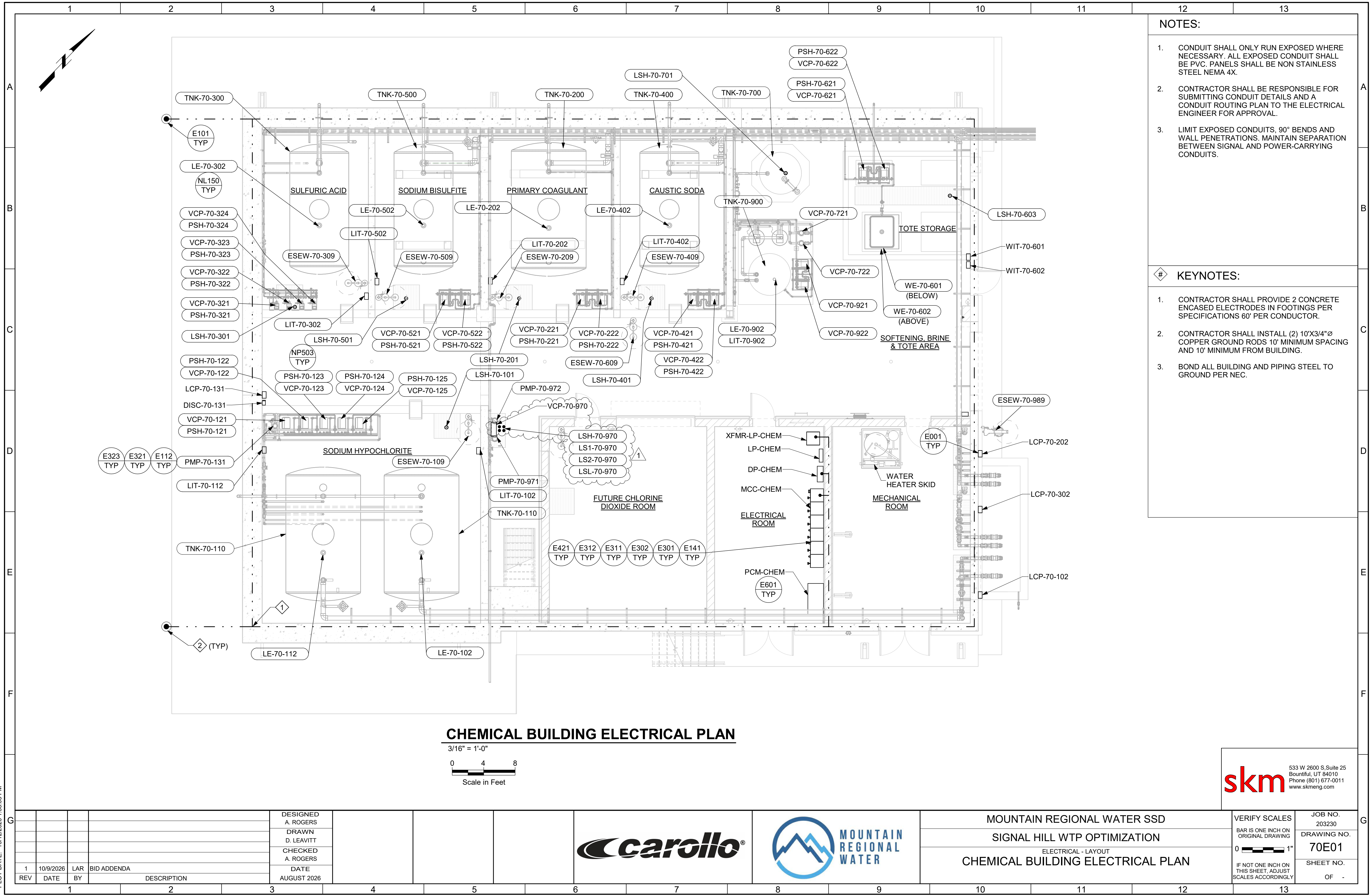
JOB NO.  
203230

DRAWING NO.  
40E02

SHEET NO.  
OF -

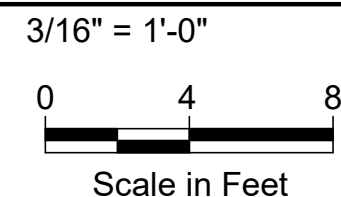
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- NOTES:**
- CONDUIT SHALL ONLY RUN EXPOSED WHERE NECESSARY. ALL EXPOSED CONDUIT SHALL BE PVC. PANELS SHALL BE NON STAINLESS STEEL NEMA 4X.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CONDUIT DETAILS AND A CONDUIT ROUTING PLAN TO THE ELECTRICAL ENGINEER FOR APPROVAL.
  - LIMIT EXPOSED CONDUITS, 90° BENDS AND WALL PENETRATIONS. MAINTAIN SEPARATION BETWEEN SIGNAL AND POWER-CARRYING CONDUITS.
- KEYNOTES:**
- CONTRACTOR SHALL PROVIDE 2 CONCRETE ENCASED ELECTRODES IN FOOTINGS PER SPECIFICATIONS 60" PER CONDUCTOR.
  - CONTRACTOR SHALL INSTALL (2) 10'X3/4"Ø COPPER GROUND RODS 10' MINIMUM SPACING AND 10' MINIMUM FROM BUILDING.
  - BOND ALL BUILDING AND PIPING STEEL TO GROUND PER NEC.

**CHEMICAL BUILDING ELECTRICAL PLAN**



533 W 2600 S, Suite 25  
Bountiful, UT 84010  
Phone (801) 677-0011  
www.skmeng.com

|                                                                                                                          |                                                                       |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| VERIFY SCALES<br>BAR IS ONE INCH ON ORIGINAL DRAWING<br>0 1"<br>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY | JOB NO.<br>203230<br>DRAWING NO.<br><b>70E01</b><br>SHEET NO.<br>OF - |
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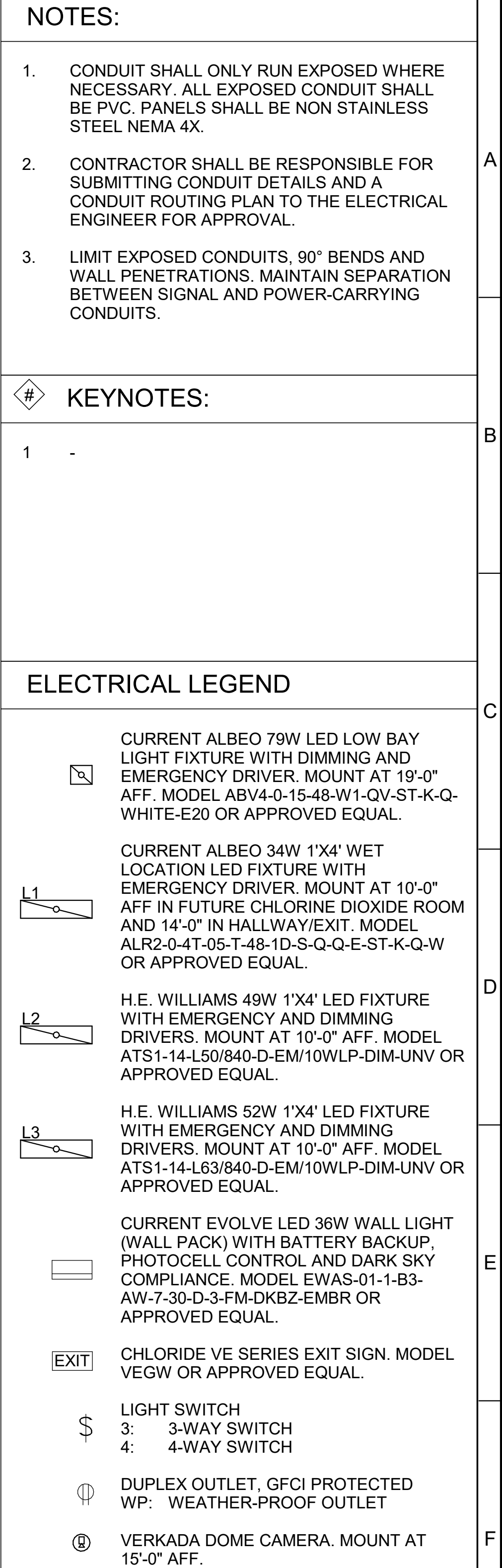
|                       |           |     |             |
|-----------------------|-----------|-----|-------------|
| DESIGNED<br>A. ROGERS |           |     |             |
| DRAWN<br>D. LEAVITT   |           |     |             |
| CHECKED<br>A. ROGERS  |           |     |             |
| DATE<br>AUGUST 2026   |           |     |             |
| 1                     | 10/9/2026 | LAR | BID ADDENDA |
| REV                   | DATE      | BY  | DESCRIPTION |



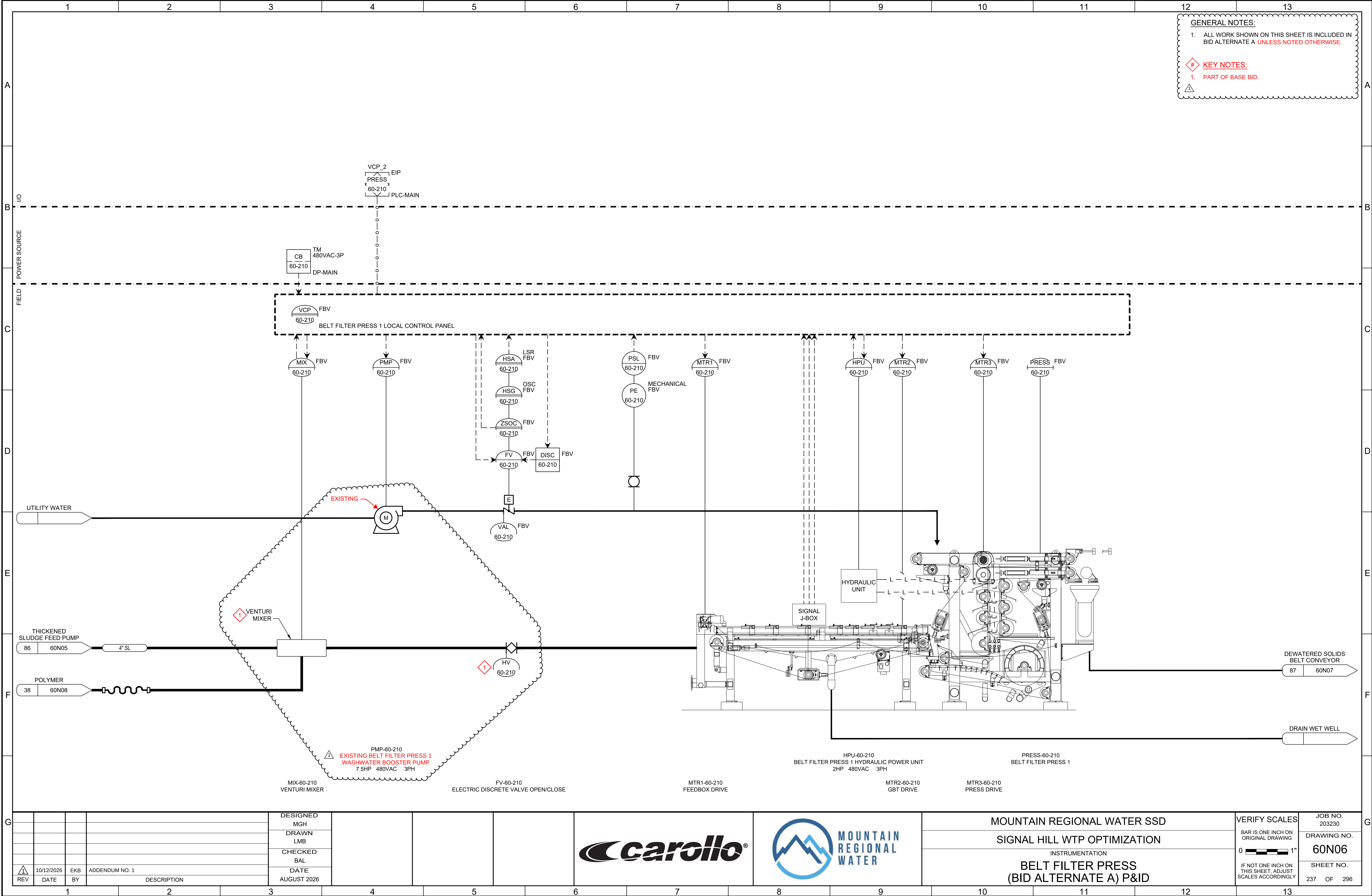
MOUNTAIN REGIONAL WATER SSD  
SIGNAL HILL WTP OPTIMIZATION  
ELECTRICAL - LAYOUT  
**CHEMICAL BUILDING ELECTRICAL PLAN**

PLOT DATE: 10/12/2026 1:33:03 PM



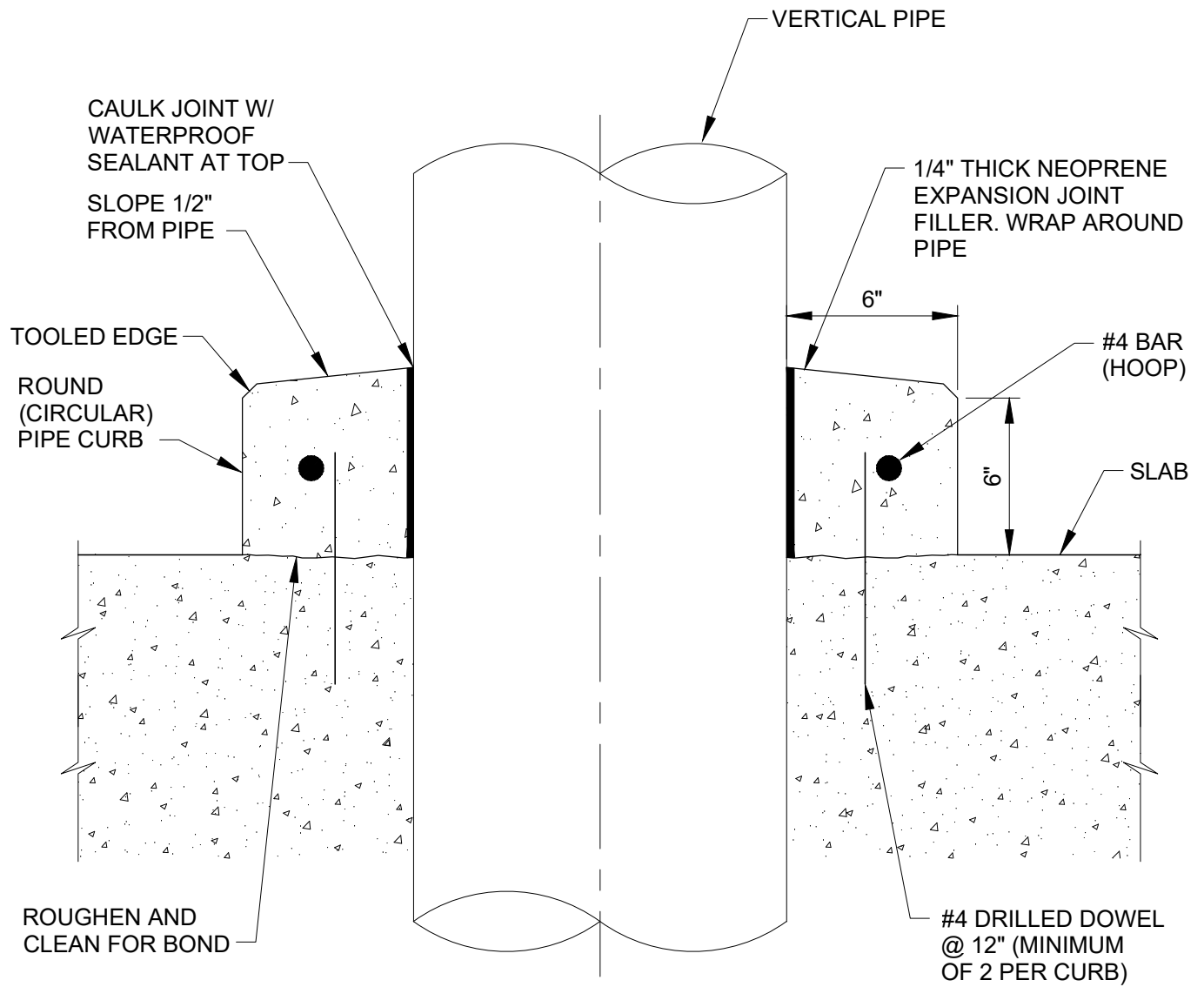






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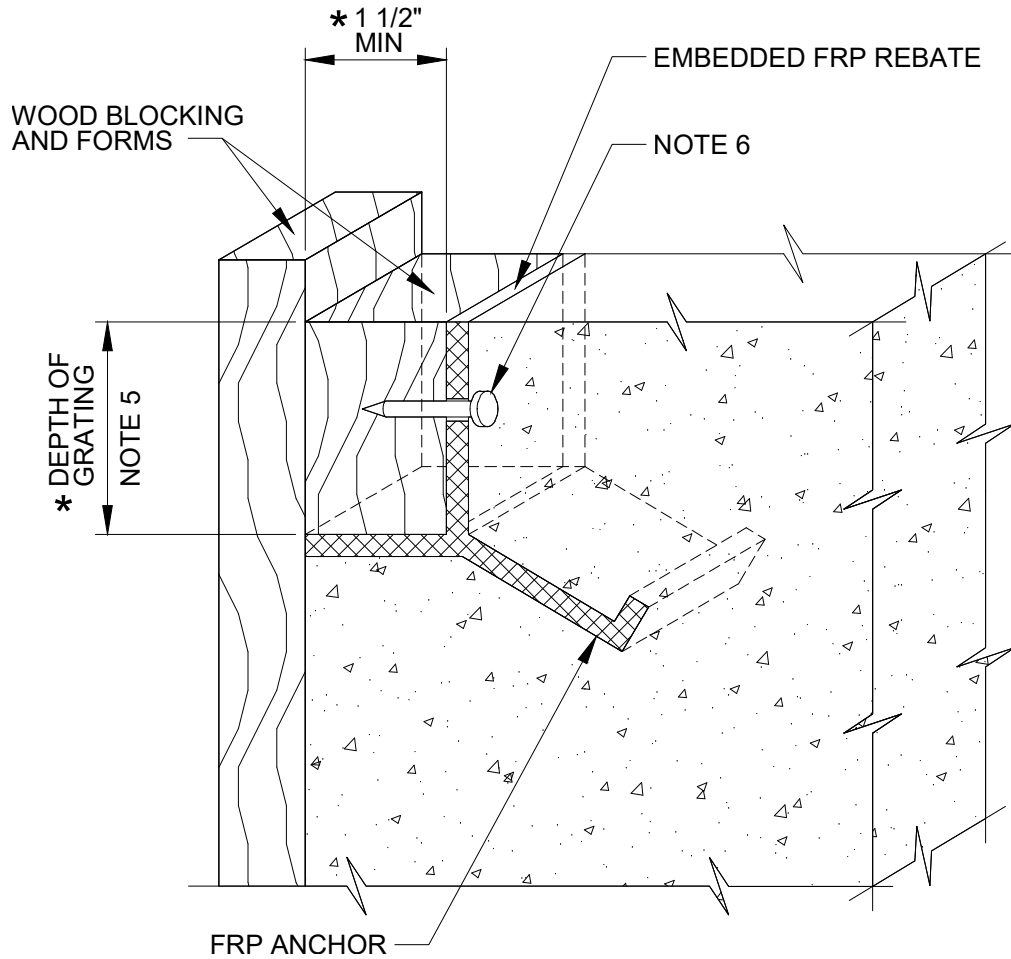
MP510

TYP

## FLOOR PENETRATION - CONCRETE CURB

12/29/2022

**carollo**



## A GRATING REBATE

### NOTES:

1. SEE SPECIFICATIONS FOR FRP GRATING.
2. MAKE REBATE AND/OR SEAT CONTINUOUS AROUND OPENING.
3. EMBEDDED REBATE SHALL BE 1/4" MINIMUM THICKNESS, ALL LEGS.
4. REBATE MAY BE EXTRUDED.
5. \* = DIMENSION AS REQUIRED BY GRATING MANUFACTURER. SEE SPECIFICATIONS.
6. IF NAILS ARE USED FOR ATTACHMENT TO FORMWORK, PROVIDE TYPE 316 SST NAILS. CUT NAILS AND GRIND MINIMUM 1/8" BELOW SURFACE OF FRP. SEAL NAIL WITH FRP RESIN RECOMMENDED BY REBATE MANUFACTURER.

**SU605 GRATING - FRP - REBATE**

**TYP**

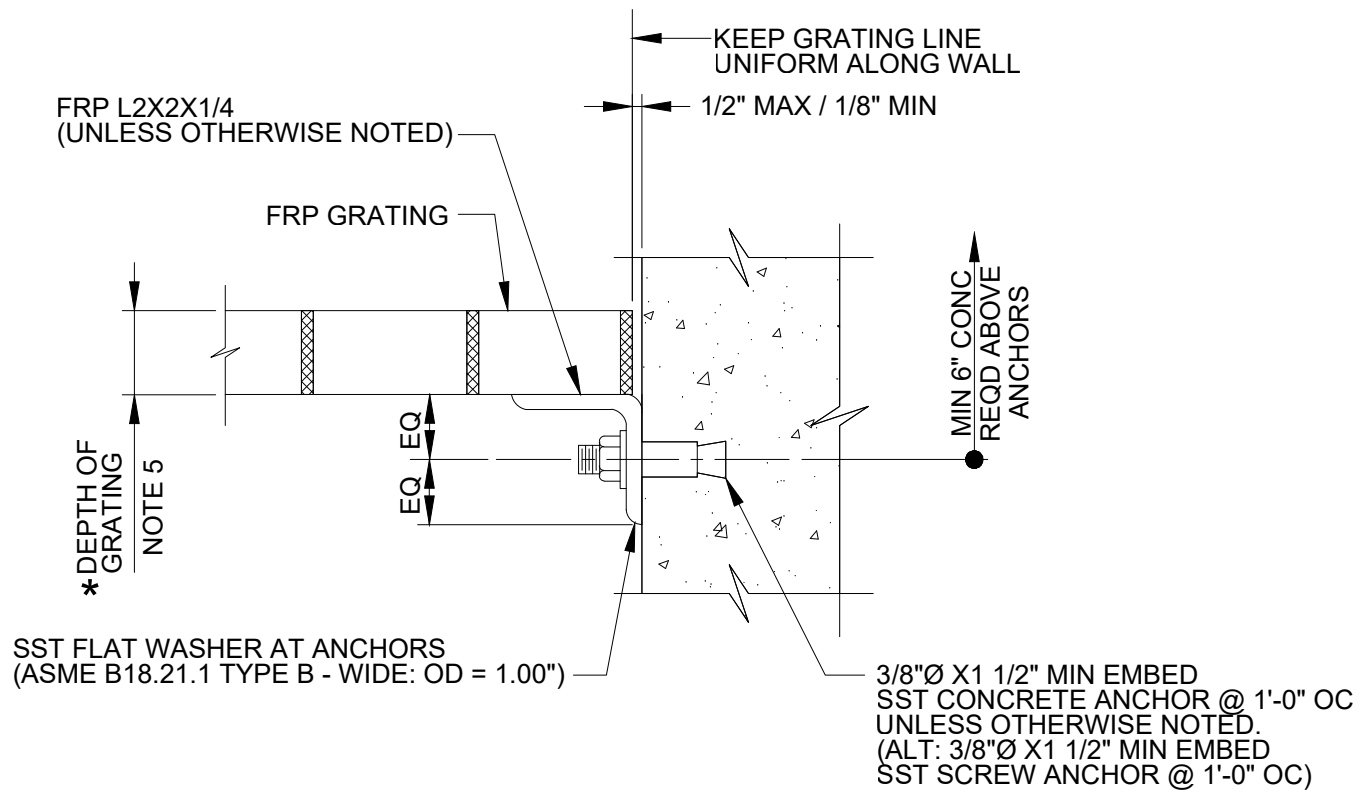
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SHEET 1 OF 2

12/18/2023

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B GRATING SEAT

SU605 GRATING - FRP - REBATE

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N

SHEET 2 OF 2

12/18/2023

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| <div><div></div><div>BIDDER QUESTION LOG</div></div>                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                               |
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| Signal Hill Water Treatment Plant Optimization Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                               |
| 10/12/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                               |
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| INQUIRY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FINAL RESPONSE                                                                                                                                                                                                                |
| Would the Owner and Engineer please consider moving the bid date to the week of October 19th? The currently scheduled bid date falls during fall break and the UEA break for several school districts. Many families will be out of town that week, including myself, which may make it difficult for contractors and subcontractors to properly prepare for the bid. If the schedule allows, we would greatly appreciate your consideration in moving the bid date to the following week.                                     | Addendum No. 1 changes the bid opening date to October 22. The time remains 3 p.m. local time.                                                                                                                                |
| We have confusion on the domestic requirement. There is BABA language, AIS language along with a BABA waiver 00 82 00. Can you send in an RFI asking for clarification on what GOV Act will need to be followed as this will impact the project from cost and leadtime.                                                                                                                                                                                                                                                        | There is a BABA waiver but AIS remains a requirement due to both federal and state funding for the project.                                                                                                                   |
| It appears the geotechnical report is missing from the bid documents. Could you please make that available to the contractors?                                                                                                                                                                                                                                                                                                                                                                                                 | Geotechnical reports will be provided with Addendum No. 1.                                                                                                                                                                    |
| While reviewing the project specifications, I noticed that Article 5, Section SC-5.03 of the Supplementary Conditions states that copies of the geotechnical reports dated October 2025 and September 2023 are available upon request. Would you please send us copies of these reports                                                                                                                                                                                                                                        | Geotechnical reports will be provided with Addendum No. 1.                                                                                                                                                                    |
| Drawing 05C01 in key note 5 states that there are two 8” IRR pipes stacked from the treatment building to the manhole. But I’ve looked at the P&ID’s, the mechanical and demolition drawings, and the civil drawings and I’m not seeing a second line from the building to the irrigation manhole. The only two inlet lines on drawing 04C02 I see are an 8” gravity line from the 24” NPW line in the yard and the 8” pumped line from the treatment building. Please clarify the meaning of key note 5 and this second line. | Keynote 5 is not applicable and is deleted via Addendum No. 1.                                                                                                                                                                |
| There are some gate valves on the yard piping (24”/8” on NPW, 8” on the IRR) but there doesn’t seem to be a specification in the bid set for this valve type. Will a specification be provided?                                                                                                                                                                                                                                                                                                                                | Section 40_05_65.01 - Gate, Flobe, and Angle Vavles is provided via Addendum No. 1.                                                                                                                                           |
| Drawing 04C02 calls out 8” air release valves on the 8” IRR pump discharge lines which seems to be an error. Please clarify the correct size of air valves required for these lines.                                                                                                                                                                                                                                                                                                                                           | It is an air relase valve off the 8" line, not an 8" air release valve. Spec section 40_05_67.40, ARV00 and Addendum No. 2.                                                                                                   |
| Drawing 05C01 shows a 4” IRR line that appears to be coming from the treatment building, but looking at the mechanical drawings I see no connection there. Does this line wye off the 8” IRR line?                                                                                                                                                                                                                                                                                                                             | The 4" connection was on the existing 8" NPW. Landscape plan 04C03 keynote 7 calls for a new connection to the new 8" IRR and shows the 4" IRR out to the berm and irrigation to be designed by landscape contractor.         |
| Drawing 05C02 keynote 2 calls for a 4” service meter and vault, but I can’t locate this keynote or anything resembling a vault on the drawings for this line. Please clarify this keynote.                                                                                                                                                                                                                                                                                                                                     | Keynote 2 is deleted via Addendum No. 1.                                                                                                                                                                                      |
| Please clarify the required connection type for the RW piping shown on Sheet 20M02. The drawings appear to indicate welded connections and fittings, while the pipe schedule identifies flanged (FL) connections. The specifications reference the pipe schedule but also include requirements for flanged, grooved, and welded connections. Please confirm the connection type the Owner would like us to use for the RW piping and associated fittings.                                                                      | The pipe schedule will be updated via Addendum No. 2. Exposed RW pipe fitting can be flanged (FL), welded (WLD), or grooved end (GE). The section on 20M02 shows both welded and flanged connections.                         |
| Davis-Bacon Wage Rates – The bid documents currently include wage rates for Construction Type: Heavy only. Could you please provide the applicable Davis-Bacon wage rates for Construction Type: Building as well?                                                                                                                                                                                                                                                                                                             | "Construction Type: Building" pdf is included in Addendum No. 1.                                                                                                                                                              |
| Taxes – Section 00 73 00-16, Paragraph 7.10 – This section states that the Owner is exempt from payment of sales tax and compensating use taxes in the State of Utah and that the Owner will furnish the required certificates of tax exemption.<br>- Will the tax exemption certificate be made available to bidders prior to the bid?<br>- Please confirm whether General Contractors should include zero sales tax and use tax on materials incorporated into the project.                                                  | Paragraph 7.10 will be deleted from 00_73_00 in Addendum No. 1. This will revert to 7.10 in 00_72_00 that requires the Contractor to pay all applicable taxes.                                                                |
| Material Testing / Special Inspections – Will the Owner be providing and paying for the required material testing services and special inspections for this project?                                                                                                                                                                                                                                                                                                                                                           | Yes, the Owner will provide and pay for required material testing services and special inspections.                                                                                                                           |
| Lab Cabinets – It appears the specification sections for the lab cabinets are missing. Keynotes on Drawing 00A04 reference Sections 12 35 54 and 12 36 24, but these sections do not appear to be included in the bid documents. Please provide the applicable specifications.                                                                                                                                                                                                                                                 | Sections 12_35_54 and 12_36_24 are included as part of Addendum No. 1                                                                                                                                                         |
| Laboratory Equipment – Section 11 53 05 – This specification lists several laboratory equipment items; however, the individual items do not appear to be identified on the drawings. Please clarify which laboratory equipment items are to be furnished and/or installed by the Contractor.                                                                                                                                                                                                                                   | The only items to be furnished/installed by the Contractor are an under-counter dishwasher and a refrigerator/freezer combination. All other items are not required and have been removed from the Section in Addendum No. 1. |



| <div><div></div><div>BIDDER QUESTION LOG</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Signal Hill Water Treatment Plant Optimization Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 10/12/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| INQUIRY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FINAL RESPONSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Drawing 00A04 – Sample Room – In Section D, Enlarged Plan View of the Sample Room, Keynote #20 appears to be mislabeled. Please clarify the intended keynote and scope.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Keynote 20 is pointing to the resilient base that goes around the perimeter of the room at the base of the walls. It appears to be correctly labeled on the drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Ceiling Systems – Please clarify the locations where Section 09 22 27 – Gypsum Board Ceiling Suspension Systems and Section 09 51 13 – Acoustical Panel Ceilings are to be installed. It appears that the new Electrical Room and Sample Lab in the Main Treatment Building receive gypsum board ceilings. Please confirm. Also, please identify where the acoustical panel ceiling system is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Confirmed, gypsum board ceiling will be included in the Sample Lab. There won't be any Acoustical Panel Ceilings, so that spec section and other references may be ignored.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Sheet 04C02 – Irrigation Piping – The piping between the Irrigation Manhole and Valve Vault is identified as 6" IRR in Section D and 8" IRR in Section E. Please confirm the required pipe size. In addition, the pipe schedule identifies the material as C900. Please confirm whether C900 is correct or if this piping is intended to be ductile iron.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | It should be 8" and is corrected via Addendum No. 2. Per the updated pipe schedule, the buried section of piping between the Irrigation Manhole and the Irrigation Valve Vault should be DIP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| MFF Piping – The pipe schedule on Sheet 00G12 identifies the 12" MFF piping as PVC Schedule 80. However, Sheet 30M04 also calls out 6" MFF piping. Please confirm whether all MFF piping, regardless of size, is to be PVC Schedule 80.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | All exposed MFF piping is Sch 90 PVC. See updated pipe schedule in Addendum No. 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p>Our concrete supplier has identified a potential conflict between the specified cementitious material limits, required compressive strengths, and slump requirements in Table 3.</p> <p>This concern applies particularly to Classes A and A-NA, which require 4,500 psi concrete with only 535–575 lb/CY of cementitious material and a 2–4 inch slump, as well as the 5,000 psi concrete class(es) identified in Table 3. The supplier has indicated that achieving the specified strengths within these cementitious limits may be difficult. The 2–4 inch slump may also create placement, consolidation, and finishing concerns for reinforced walls and flatwork.</p> <p>Please confirm whether the cementitious material quantities shown in Table 3 are mandatory maximum limits. Where necessary to achieve the specified strength and adequate workability, will increase cementitious content and/or increased slump through approved water-reducing admixtures be permitted?</p> | Because our mix design is governed by ACI 350 instead of ACI 318, our mixes look different from many traditional mixes used on non-municipal projects. Excessive cement content can lead to excessive shrinkage cracking. For this reason our spec intentionally places tight controls on the cement content, and provides other means for achieving high compressive strength. If the aggregate gradation requirements in our spec are closely followed, voids in the mix between larger aggregates that would normally be filled with cement paste will be filled with mid-sized aggregates instead, leading to less required cement. Since the aggregates are stronger than the cement paste, this also leads to stronger concrete. A well-graded mix is also more workable than a gap-graded mix, but we are willing to accept high-range water reducing admixtures if necessary to achieve a workable slump of up to 8". |
| What are the dashed lines in the middle of the floor of the new GAC building shown on 40S04?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | These dashed lines will be corrected via Addendum No. 2. The dashed lines are intended for the grade beam as shown correctly in the section views for the new GAC building.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| In the pipe schedule on Sheet 00G12, the Backwash Waste service lists exposed piping as DIP. There is also a C900 option listed directly below it. Can you please confirm whether the C900 is intended for buried Backwash Waste piping, with DIP used for exposed piping?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The pipe schedule will be updated via Addendum No. 2 to clarify this discrepancy.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| In the pipe schedule on Sheet 00G13, the Overflow (OF) service lists buried piping as HDPE. However, there does not appear to be a material specified for <u>exposed</u> OF piping. An example would be the CIP tank overflow line shown on Sheet 30M04. Can you please confirm what pipe material is to be used for exposed OF lines?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | The pipe schedule will be updated via Addendum No. 2 to clarify and add line items for buried, exposed, and submerged OF lines.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>Serpentix has reviewed the specification section 41_12_20 and the associated P&amp;ID and have questions:</p> <p>* during our quote and design phase, there was no remarks about any washing systems; however the P&amp;ID from the contract drawings show two (2x) independent water lines with associated solenoids - see attached.</p> <p>* There's no call out in the conveyor specification regarding such equipment or accessories that require water.</p> <p>* Is the engineer / owner looking for specific type of washing system(s)? Serpentix does have a belt spray wash system and a drip pan wash system - please advise.</p>                                                                                                                                                                                                                                                                                                                                                   | We will clarify and add a belt spray wash system and a drip pan wash system via addendum.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| <div><div></div><div>BIDDER QUESTION LOG</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Signal Hill Water Treatment Plant Optimization Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 10/12/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| INQUIRY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FINAL RESPONSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>The Pipe Schedule provides steel and ductile-iron material options for the GAC piping and includes the note, <b>“Contractor to choose one material for all GAC piping.”</b> It appears that the material selection applies to the <b>BWS, GCE, and GCS systems</b>; however, the intended extent of “all GAC piping” and its application to the Base Bid and Bid Alternate A are not clear.</p> <p>Please clarify the following:</p> <ol style="list-style-type: none"><li>1. Please confirm whether the requirement to select one material for all GAC piping applies only to the BWS, GCE, and GCS systems.</li><li>2. Please confirm whether the selected material must be used consistently across both the Base Bid and Bid Alternate A, or whether a separate material selection is permitted for each bid scope.</li><li>3. Portions of the existing Schedule 80 PVC piping appear to remain following the GAC demolition and modification work. Please identify the exact transition locations and the required connection method between the retained PVC piping and the new steel or ductile-iron piping.</li><li>4. Please confirm whether the intended transition is a PVC flange adapter, conventional flanged coupling adapter, restrained flange coupling adapter, transition coupling, or another fitting type, and identify any product or detail requirements not already covered by Sections 40_05_00.01, 40_05_06.03, 40_05_19.01, and 40_05_31.01.</li><li>5. Please confirm whether the retained Schedule 80 PVC piping and associated transition assembly are required to withstand the new GAC piping system’s specified 150-psig high-head test, and identify any additional restraint required at the transition.</li><li>6. Please confirm whether each PVC-to-new-pipe transition is included in the Base Bid, Bid Alternate A, or both.</li><li>7. Please confirm that existing PVC piping shown to remain is not required to be replaced solely to maintain one pipe material throughout the GAC system.</li></ol> | <ol style="list-style-type: none"><li>1. Yes that is correct, the requirement to select one material applies across all GCS, GCE, and BWS piping. BWW piping is specified as DIP to match existing piping. However, Addendum No. 2 provides clarification and requires that piping in the GAC area 10 inches and smaller to be DIP, and 12 inches and larger as steel.</li><li>2. Separate materials selections may be made based on bid scope so long as only one material is used for these three pipe designations within the selected scope.</li><li>3. There is no new PVC piping in this area. Any transition between new and existing piping that is not marked as dissimilar metals signifies a transition to existing PVC. Although dissimilar metals are mostly marked, it is the contractors responsibility to verify existing materials.</li><li>4. The assumption is that a basic PVC flange adapter would be used.</li><li>5. There was an error in the pipe schedule and all of the piping in these systems, including the existing pipe systems, should be tested to 50 PSI. This will be updated by addendum.</li><li>6. Bid alternate A includes all possible connections. Base bid connections shown only on base bid sheets.</li><li>7. Confirmed. Do not replace any pipes shown as existing.</li></ol> |
| <p>While reviewing the GAC mechanical drawings and P&amp;I drawings, we noted a few valve-tag and bid-scope items that we would appreciate clarification on:</p> <ol style="list-style-type: none"><li>1. Valve tags CV-40-111, HV-40-112, CV-40-121, HV-40-122, CV-60-168, HV-40-126, and VAL-40-110 appear on both the Base Bid and Bid Alternate A mechanical drawings. Please confirm whether these valves are included in the Base Bid and repeated on the Bid Alternate A drawings for reference, or if any additional valve work is required under Bid Alternate A.</li><li>2. Valve tags CV-10-239, CV-60-168, CV-60-252, and CV-60-255 are included in the mechanical drawing key-tag lists, but corresponding tags could not be located on the applicable P&amp;I drawings. Please provide the applicable P&amp;I reference, service, location, and bid scope for each valve.</li><li>3. Valve tags CV-60-168, CV-60-252, and CV-60-255 are identified as 8-inch BF05. The CV prefix appears to indicate a check valve; however, Division 40 does not define a BF05 valve type. Section 40_05_64 defines BFV05 as an Industrial Class Butterfly Valve, while Section 40_05_65.24 defines CKV03 as an Angled Disc Rubber Flapper Check Valve. Please confirm whether these valves are intended to be 8-inch CKV03 check valves or 8-inch BFV05 butterfly valves, and provide the corrected valve tag and type designation.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <ol style="list-style-type: none"><li>1. As noted on in the drawings, some drawings show Work for both the base bid and bid alternate. If the same valves are shown on Base Bid and repeated on Bid Alternate A, they are included in the Base Bid.</li><li>2. These tags are incorrect and will be corrected by addendum.</li><li>3. These tags will also be corrected by addendum. The correct designation is BFV00 and will be corrected by addendum.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>SKM is listed as the owner’s Instrumentation and Control Subcontractor (ICSC), but it is not clear on what their scope is, other than programming. Are they an integrator only and we provide all devices?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>This will be clarified via an upcoming addendum.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>The owner is assigning the purchase agreement for pre-purchased gear (SWBD, ATS, SES) to the contractor, but there is no dollar value in the bid form. Is the value known?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>The value of the prepurchase was added via Addendum No. 1</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>The value for the Owner’s ICSC is blank on the bid form, is the Contractor to obtain the quote from SKM for their services?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>This will be added via an upcoming addendum.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>There are no lightning protection specs or drawings. Is lightning protection not required for the new chem building or GAC building?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>We will add a lightning protection spec via Addendum No. 2.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>Who pays for temporary construction power? Spec 01 50 00 1.04.A states the Owner provides power, and the Owner will pay charges for construction power. However, spec 26 05 03 2.02.A.1.c directs the Contractor to pay fees and costs for temporary construction power.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>The Owner will pay for temporary power, Section 26_05_03 2.02.A.1.c will be deleted via an upcoming addendum.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p>During the two week shut down planned for replacement of electrical utilities and gear, will the owner’s generator be used to supply temporary power during this time, or does a generator need to be rented? Who carries the cost of fuel if the owner’s generator is used? Who carries the cost of the generator rental if the owner’s generator is not used?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>During the two-week shutdown, the Contractor will be responsible for providing a generator that would keep the HVAC, lightning, and control systems going.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p>The specs refer multiple times to the Geotechnical reports listed in 00 73 00 5.03, and in some places state the contractor is responsible for reviewing these reports, but they do not seem to be included with the bid docs. Please provide these reports.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <p>Two recent geotechnical reports were provided via Addendum No. 1.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |



| <div><div></div><div>BIDDER QUESTION LOG</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                               |
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| Signal Hill Water Treatment Plant Optimization Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                               |
| 10/12/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                               |
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| INQUIRY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FINAL RESPONSE                                                                                                                                                                                                                                                                                                |
| Is DP-MAIN on 02E01 the same as DP-TP on 00ED04?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DP-MAIN on 02E01 and DP-TP on 00E04 are the same. We will make this clear via an upcoming addendum.                                                                                                                                                                                                           |
| It is assumed that Rocky Mountain power will remove the existing service conductors when the time comes, please confirm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Yes - RMP will pull out the existing conductors and pull in the new conductors. It will be the responsibility of the contractor to coordinate this work with RMP.                                                                                                                                             |
| Are the existing electrical service conduits to be abandoned in place or do they need to be removed? If they are to be removed, how far to the southwest does the existing service extend past what is shown on 00ED01?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | They can be abandoned in place. The Contractor doesn't need to dig them up further than what will naturally be dug up during construction.                                                                                                                                                                    |
| Is there an existing service where the "New Pullbox" (shown on 01E01) is located that is to be intercepted, or will Rocky Mountain Power be providing an overhead line/underground conduits to this location? Is there any further work upstream of the new pullbox that is in the scope of this project? If so, how far does it extend?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | The new pull box is to intercept the existing underground feed that currently feeds the plant. Work upstream of the pullbox will be done by RMP.                                                                                                                                                              |
| The gas main appears to be within a couple of feet of the 12-inch OF pipe. Is it possible to shift the OF pipe farther away from the gas line?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | It is possible to shift the OF pipe. This will be dependent on the shoring type used by the winning contractor and can be coordinated in the field. This OF pipe could also be changed to bell and spigot pipe like SDR 35 to allow for a segmented trench and backfill construction. Bid as currently shown. |
| Is there a utility easement along Promontory Ranch Road for the proposed utilities?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Utility easements are or will be in place for work the work in the road.                                                                                                                                                                                                                                      |
| The plans call for shoring around the radio tower, but also show the 6-inch SD line running through that area. How is the SD line intended to be installed with the shoring in place?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | The SD pipe can be laid around the radio tower shoring protection depending on what that looks like. The SD is a trench drain for the buildings that daylight to the southwest. The piping that is laid away from the footing in the area of the radio tower should be minimal.                               |
| I'm assuming there will be excess fill to haul off. Is there a location within Promontory that can take it, or does it need to be hauled out of the community?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Excess fill needs to be hauled off unless the contractor can coordinate with a builder in the area that will take it. There is not a disposal site that Carollo or MRW is aware of.                                                                                                                           |
| Can we close Promontory Ranch Road with traffic control to complete the work? If so, how long can each closure last?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Traffic control is required to keep 1 lane open. See 01_55_26 paragraph 1.07.E                                                                                                                                                                                                                                |
| Please see attached our formal request for product substitution on the Signal Hill Water Treatment Plant Optimization Project. We are submitting our Crystalline Coating/Waterproofing, Cem-Kote CW Plus, for your consideration.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | We will not evaluate proposed equals during the bid period. You are welcome to submit as an approved equal after bid following the protocol in 01_33_00 – Submittal Procedures.                                                                                                                               |
| Please see attached our formal request for product substitution on the Signal Hill Water Treatment Plant Optimization Project. We are submitting our vapor barrier, Perminator, for your consideration. We appreciate your time in reviewing our request.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | We will not evaluate proposed equals during the bid period. You are welcome to submit as an approved equal after bid following the protocol in 01_33_00 – Submittal Procedures.                                                                                                                               |
| Sheet 30M02, Section B/C, shows a 6-inch MFF line. However, the pipe schedule only identifies 12-inch exposed MFF piping, specified as Schedule 80 PVC.<br>Please confirm the required material and schedule for the 6-inch MFF piping.<br>Sheet 30M02 also shows 6" and 12" overflow piping that is exposed off the tanks. The Pipe schedule only has buried piping listed.<br>Please confirm the required material and schedule for the exposed overflow piping.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | All exposed MFF piping including the 6" MFF to the BW tanks is Sch 80 PVC.<br><br>Overflow piping from the CIP and Backwash tank will be Sch 80 PVC. The pipe schedule will be updated via Addendum No. 2.                                                                                                    |
| While reviewing the Solids Handling drawings, we noted that Drawing 60M01, identified as Base Bid, directs the Contractor to connect the existing polymer blending unit to a new venturi mixer. The Drawing 60M01 key-tag list also identifies <b>MIX-60-210, Venturi Mixer</b> , and <b>HV-60-210, Manual Isolation Valve</b> . Drawing 60M02, also identified as Base Bid, shows the venturi mixer within the piping arrangement.<br><br>However, the associated 60-210 process arrangement is shown on P&ID 60N06, Belt Filter Press, which is designated as Bid Alternate A. General Note 1 on 60N06 states that all work shown on that sheet is included in Bid Alternate A. MIX-60-210 and the related valve arrangement could not be located on Base Bid P&IDs 60N01 through 60N05.<br><br>Could you please confirm whether the following are included in the Base Bid or Bid Alternate A:<br>- MIX-60-210, Venturi Mixer<br>- HV-60-210, Manual Isolation Valve<br>- Associated piping, fittings, flange kits, supports and accessories<br>- Connection for the existing polymer blending unit<br>- Associated controls and instrumentation | MIX-60-210, HV-60-210, and associated piping and appurtenances are part of the Base Bid as shown on 60M01 and are repeated as part of the Bid Alternate A as shown on 60M01A. See Addendum No. 2 for clarification on 60N06.                                                                                  |

| <div><div></div><div>BIDDER QUESTION LOG</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                  |
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| Signal Hill Water Treatment Plant Optimization Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                  |
| 10/12/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                  |
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| INQUIRY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FINAL RESPONSE                                                                                                                                                                                                                                                                   |
| <p>While reviewing the proposed MFF piping modifications shown on Drawing 60M01 and Section DJ on Drawing 60M04, we would appreciate clarification on the intended connection arrangement.</p> <p>Drawing 60M01 shows a new 24-inch x 18-inch mechanical-joint tee installed in the existing MFF piping. Based on the configuration shown, it appears that the 18-inch branch will require a sleeve, transition coupling, or similar fitting to reconnect to the retained 18-inch MFF piping. Also, if the existing 24-inch MFF piping is flanged at the proposed tee location, the existing flange may need to be removed or the connection revised before the mechanical-joint tee can be installed.</p> <p>Could you please confirm:</p> <ul style="list-style-type: none"><li>- The existing 18-inch and 24-inch MFF pipe and fitting materials</li><li>- The existing pipe outside diameters, pressure classes, and joint configurations</li><li>- Whether the existing 24-inch flange is to be removed</li><li>- The intended connections between the new tee and the retained 18-inch and 24-inch MFF pipingWhether the existing 24-inch flange is to be removed</li><li>- Any required sleeves, couplings, flange adapters, or connecting spools</li><li>- The required restraint for the new tee and transition connections</li><li>- Whether the concrete encasement is intended to contribute to the thrust restraint</li><li>- The required closure arrangement for the existing branches shown to be abandoned</li></ul> | <p>The 18" MFF is new pipe. There is an existing 24"x14" MJ tee that will be replaced with a new 24"x18" tee per 60M01. The new piping is to be concrete encased per the drawings.</p>                                                                                           |
| <p>While reviewing the 6-inch OF piping shown on Drawing 60M02, we noted that the submerged and below-grade piping appears to include mechanical-joint and flanged fittings. However, the Pipe Schedule on Drawing 00G13 identifies buried OF piping as HDPE, SDR 32.5, with butt-fusion-welded joints.</p> <p>Could you please confirm the intended pipe material and connection arrangement for the 6-inch OF piping, including:</p> <ul style="list-style-type: none"><li>- Whether the submerged and buried OF piping is intended to be HDPE or ductile iron</li><li>- Whether the mechanical-joint and flanged fittings shown on Drawing 60M02 are intended to be ductile-iron fittings</li><li>- If HDPE is intended, the required HDPE flange adapters, backing rings, transition fittings, and connection details</li><li>- Required material and joint type for the submerged portion within the basin</li><li>- Required anchorage or restraint at flanged joints and transitions</li><li>- Whether the below-grade OF piping is to be concrete encased as shown and noted on Drawing 60M02</li></ul> <p>If available, please provide or reference a detail showing the complete submerged-to-buried OF piping transition and joint configuration.</p>                                                                                                                                                                                                                                                                      | <p>The pipe schedule has been updated via Addendum No. 2 and indicates that the 6" OF pipe from the solids holding tank to the solids thickening basin will be DIP.</p>                                                                                                          |
| <p>While reviewing the overflow weirs shown on Drawing 60M02, we could not locate a corresponding detail or specification describing the weir construction.</p> <p>Could you please confirm whether each overflow weir is intended to be formed as part of the concrete tank wall, or whether a separate manufactured weir plate or assembly is required?</p> <p>If a separate assembly is required, please provide or reference the applicable requirements, including:</p> <ul style="list-style-type: none"><li>- Weir material and thickness</li><li>- Weir dimensions and crest configuration</li><li>- Fixed or adjustable construction</li><li>- Anchorage and mounting hardware</li><li>- Required coating or finish</li><li>- Connection to the 6-inch OF piping</li></ul> <p>If the overflow elevation is formed entirely by the concrete tank construction, please confirm that no separate mechanical weir plate or assembly is required.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p>The weir is part of the concrete structure, see the 60S drawings for details.</p>                                                                                                                                                                                             |
| <p>1. Open Web Joists: Section 05 21 19, para 3.03D Coating, indicates that the joists are to come primed or uncoated and they should only be prepped and coated once installed. However, the finish schedules on Pages 70A01 and 00A01 indicated that the exposed ceilings are GALV and not to be painted. Could you please verify if all the structural steel, decking and joists are coming galvanized and are to be left uncoated, or if some items are to be field coated - and please identify which ones specifically.</p> <p>2. Finish schedule on page 00A01 indicates that the floor of the NEW GAC building is to receive sealer. However, Attachment A of Coating Specification 09 96 01 indicates that New GAC building floor is to receive System EPX-F-2. Please indicated which system the New GAC Floor should receive.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p>1. 00A01 and 70A01 have been updated via Addendum No. 2. All structural steel shall be coated per Section 09_96_01.</p> <p>2. The floors shall simply receive sealer. The only concrete that shall be coated is the chemical containment areas per 09_96_01 Attachment A.</p> |



| <div><div></div><div>BIDDER QUESTION LOG</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Signal Hill Water Treatment Plant Optimization Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                         |
| 10/12/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                         |
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| INQUIRY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FINAL RESPONSE                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>A previous RFI requested clarification of the 6-inch OF piping and fitting configuration at the Solids Holding Tanks. During further review of the overflow piping route between the Solids Holding Tanks and the existing Thickening Basin, we noted additional material and connection details that would benefit from clarification. Drawing 60M01 shows the 6-inch OF penetrations at the Solids Holding Tanks using Detail MP566, Wall Penetration - DIP - Fabricated Wall Pipe. The piping and fittings shown near the tanks also appear to be depicted as ductile iron with mechanical-joint or flanged connections.</p> <p>At the receiving end, Drawing 20M01 shows the 6-inch OF piping entering the existing structure through Detail MP544, Wall Penetration - Cast-In Sleeve. The piping shown on 20M01 appears to be represented as a continuous plastic piping system. However, the carrier-pipe material is not identified at the penetration.</p> <p>The Pipe Schedule on Drawing 00G13 identifies buried OF piping as HDPE, SDR 32.5, with butt-fusion-welded joints. Drawing 60M02 also requires all piping beneath the Solids Handling structures to be concrete encased.</p> <p>Could you please confirm the pipe materials and details for the complete 6-inch OF piping route.</p> | <p>Typ MP544 has two sheets, one for penetrations through new concrete and the second sheet for existing wall penetrations. The penetration for 6" OF on 20M01 should use the existing wall penetration detail sheet for Typ MP544.</p> <p>Addendum No. 2 modifies the pipe schedule to clarify the pipe material for the 6" OF piping from the solids holding tank to the solids thickening basin.</p> |
| <p>While reviewing the radar level instruments <b>LE-60-132</b> and <b>LE-60-142</b> shown on Drawing 60M01, we noted that Detail NL153 on Drawing 00TN02 shows each radar instrument installed on a flanged spool piece.</p> <p>Detail NL153 requires the spool opening to be 1 inch larger than the radar horn diameter, with the final spool dimensions and antenna extension coordinated with the selected radar instrument. However, the spool-piece material, diameter, schedule, flange requirements, and radar horn size do not appear to be identified.</p> <p>Could you please provide or confirm the following:</p> <ul style="list-style-type: none"><li>•Radar manufacturer, model, and horn diameter</li><li>•Spool-piece material, nominal diameter, schedule, and required length</li><li>•Flange size, material, drilling, and pressure class</li><li>•Required interior lining, exterior coating, or finish</li><li>•Gasket and flange-hardware requirements</li><li>•Antenna-extension size, material, and required length</li><li>•Whether the spool piece, flange, antenna extension, gasket, bolting, and related mounting accessories are furnished by the instrumentation supplier or the installing Contractor</li></ul>                                                            | <p>The possible radar manufacturers are listed in the specifications. We cannot provide information on required size, since the radar manufacturer will not be confirmed until the submittal phase of the project.</p>                                                                                                                                                                                  |
| <p>Sheet 30M01 Membrane Filtration Plans call out for a 2" (DR) drain at the Backwash Tank and a 4" (DR) drain at the CIP tank. Per Key tag 14, the 4" UF CIP Drain Valve is provided by H2O Innovation. There is no call out for the 2" Backwash Tank Drain Valve. Will that valve also be supplied by H2O Innovation? If not, what is the type of valve and what is Specification ID number for the valve.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p>The 2" (DR) drain valve for the MF Backwash Tank will be provided by H2O Innovation. It is part of their submittal package in Appendix B of the specifications.</p>                                                                                                                                                                                                                                  |
| <p>I am seeking information for isolation valves found in the Pretreatment Wet Wells (Sheets 20M01 thru 20M04). These sheets list out manual isolation valves, electric modulating valves, electric discreet valves open/close, and check valves. However, none of these valves reference the Specification ID to choose the correct valves to use in the project.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <p>These drawings will be updated with the specification ID via addendum.</p>                                                                                                                                                                                                                                                                                                                           |
| <p>Could you please provide the type of 24" buried gate valve called out in 05C04? I am unable to find a spec on Gate Valves.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>Section 40_05_65.01 - Gate, Globe, and Angle Vavles is provided via Addendum No. 1.</p>                                                                                                                                                                                                                                                                                                              |
| <p>The specifications make multiple references to a "Valve Schedule"; however, we have been unable to locate a Valve Schedule within the bid documents. Please confirm whether a project-specific Valve Schedule is available.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>A valve schedule will not be provided. The mechanical drawings indicate size and specification ID for valve type.</p>                                                                                                                                                                                                                                                                                |
| <p>Can you please confirm whether the Contractor is responsible for providing any chemicals required for startup, testing, or initial operation of the project, or if all required chemicals will be provided by the Owner?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>Per 01_75_17 Part 1.07.A.3, the Owner will furnish chemicals for all commissioning phases.</p>                                                                                                                                                                                                                                                                                                       |
| <p>Do you have the original/existing ground CAD files that you can share for this project?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>Carollo will not be sharing CAD files during bidding for this project.</p>                                                                                                                                                                                                                                                                                                                           |
| <p>The plans currently only show concrete sealer. Please confirm that no epoxy flooring is required for this project.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>Confirmed. No epoxy flooring is required on this project.</p>                                                                                                                                                                                                                                                                                                                                        |
| <p>Please advise if the sink specifications will be included in the division 12 package or if this will be a plumbing scope item.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p>It is a plumbing scope item, see Section 22_42_01 2.02.B.</p>                                                                                                                                                                                                                                                                                                                                        |
| <p>Please advise if it is possible to have a drawing that shows the locations and quantities of any lab casework equipment.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>This is a sample room and the equipment will sit on top of cabinets/countertops. No lab equipment is built into the cabinets. Owner will provide any lab equipment.</p>                                                                                                                                                                                                                              |

| <div><div></div><div>BIDDER QUESTION LOG</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                    |
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| Signal Hill Water Treatment Plant Optimization Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                    |
| 10/12/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                    |
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| INQUIRY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | FINAL RESPONSE                                                                                                                                                                     |
| In specification 115305 at the end with installation there is a reference to specification 115313 "Laboratory Fume Hood". This fume hood can not be found in the plans nor is there a specification 115313 in the specification manuals. Please advise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A fume hood is not required on this project. Addendum No. 1 removes the fume hood reference from Section 11_53_05.                                                                 |
| On sheet 10DC01, there is no callout for detail C/10DC02. Please advise on the location of this detail on 10DC01.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | The callout location has been added via Addendum No. 2.                                                                                                                            |
| On 30DS01, there are various shaded areas that appear to be demolition areas but they are not clearly called out. Please advise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | All demo hatching is applicable. Unless otherwise noted, the demo hatching is for various equipment pads included tanks, pumps, etc.                                               |
| Will it be acceptable to remove and reuse existing trees where they would otherwise be demolished for the new landscaping?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Evergreen trees are to be removed and protected during construction. See 10DC01 keynote 5.                                                                                         |
| <p>The Pipe Schedule provides both steel and DIP options for portions of the BWS, GCE, and GCS piping and includes the note, <b>“Contractor to choose one material for all GAC piping.”</b></p> <p>Could you please confirm the following:</p> <ul style="list-style-type: none"><li>•Whether the steel-versus-ductile-iron choice applies only to BWS, GCE, and GCS, or also includes BWW.</li><li>•Whether one material must be used consistently across both the Base Bid and Bid Alternate A.</li><li>•Whether ductile iron is required for the Bid Alternate A piping shown with DIP fittings, including the 24-inch GCS side-outlet elbow.</li><li>•If steel remains an acceptable option, please provide the steel equivalents for the drawn DIP fittings and identify the required welded, flanged, grooved, and transition connections.</li><li>•Required terminal-point materials and connections at the supplier-furnished GAC valve trees.</li><li>•Required connections to existing piping for each material option.</li><li>•Required transition fittings where BWW, C900, existing piping, or supplier-furnished piping differs from the selected GAC material.</li><li>•Required pressure-test limits and isolation points for the selected material.</li><li>•Whether the Contractor may select ductile iron with flanged joints throughout the applicable GAC process piping as a compliant basis.</li></ul>                                       | <p>The pipe schedule is updated via Addendum No. 2. Some changes to 40M drawings are also provided in Addendum No. 2.</p>                                                          |
| <p>While reviewing the utility-water connection to the Thickened Sludge Feed Pump, we noted that P&amp;ID 60N05 shows a utility-water assembly that includes <b>SV-60-151, FI-60-151, FE2-60-151, FSL-60-151</b>, manual isolation valves, and associated bypass piping.</p> <p>Drawings 60M01 and 60M02 show the general utility-water routing and state that utility water is to be routed from the adjacent wall if seal water is required by the pump manufacturer. However, the mechanical drawings do not appear to show or identify the complete utility-water valve and instrumentation assembly shown on P&amp;ID 60N05.</p> <p>Could you please confirm:</p> <ul style="list-style-type: none"><li>•Whether the complete utility-water assembly shown on P&amp;ID 60N05 is required</li><li>•Required UW branch-pipe size and material</li><li>•Sizes and types of all manual isolation valves</li><li>•Size, material, and normal operating position of SV-60-151</li><li>•Connection requirements for FI-60-151 and FE2-60-151</li><li>•Required bypass-piping arrangement</li><li>•Required mounting locations and details</li><li>•Final connection requirements at PMP-60-151</li><li>•Whether the valves, instruments, and connecting piping are furnished by the pump supplier, instrumentation contractor, or mechanical contractor</li><li>•Whether this assembly is required regardless of the pump supplier’s seal-water requirements</li></ul> | <p>If the pump manufacturer requires seal water, then those appurtenances will be required. Mechanical drawings do not show all required appurtenances shown on the P&amp;IDs.</p> |
| Keynote 2 on Drawing 40A01 indicates to reference Spec Section 13_34_19. However, that section was not included in the Project Manual. Please provide such section or otherwise advise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Section 13_34_19 is not required and the reference of 40A01 will be removed via Addendum No. 1                                                                                     |
| Are all metal stairs whether exterior or interior including structure, guardrails, handrails, treads, and nosings intended to be aluminum?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Structural typical details call out Aluminim for stairs, guardrails, handrails, etc. See typical detail callouts.                                                                  |
| Are all metal ladders whether exterior or interior intended to be aluminum?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Typical details call out the material.                                                                                                                                             |
| Is all grating whether exterior or interior intended to be aluminum?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Structural drawings and typical details call out material for grating.                                                                                                             |
| Para. 2.07.B.1 of Spec Section 05 12 00 states, “All structural steel in the GAC Building (Area 40) shall be hot-dip galvanized.” Does that same requirement apply to all structural steel framing, open web steel joists, and steel decking in the New GAC Building?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Section 05_12_00 has been updated via Addendum No. 2. All structural steel shall be coated per Section 09_96_01.                                                                   |
| Should all structural steel framing, open web steel joists, and steel decking in the New Chemical Building be hot-dip galvanized?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | All structural steel shall be coated per Section 09_96_01.                                                                                                                         |



| <div><div><div><div>carollo®</div></div></div><div>BIDDER QUESTION LOG</div></div>                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                      |
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| Signal Hill Water Treatment Plant Optimization Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                      |
| 10/12/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                      |
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| INQUIRY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FINAL RESPONSE                                                                                                                                                                                                                                                                                       |
| Section 00 52 00 3.04 A. 5. Indicates the established liquidates damages are the “Owner’s sole and exclusive remedy...” Section 3.05 B identifies other potential actual costs may also be imposed which are supplemental to liquidated damages. Consideration to eliminate Part B of this section is requested as it appears to conflict with previous section.                                                                                                                                                                              | There is no conflict. Section 00_52_00 3.04.A.5 says that liquidated damages are the sole and exclusive remedy ... except for special damages per 3.05. These sections of the agreement shall remain unchanged.                                                                                      |
| On the Bid Form, Section 00 41 00, Unit Price #1, the Asphalt SF is shown as 17,500. However, in the Agreement, Section 00 52 00, the same item shows a total of 110,000 SF. Can you clarify which quantity will be used?                                                                                                                                                                                                                                                                                                                     | The quantity shown in the Bid Form is correct. The quanity shown in 00_52_00 was updated via Addendum No. 1                                                                                                                                                                                          |
| Please provide value to include on Bid Item 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | The value of the electrical prepurchase (Bid Item 3) was added via Addendum No. 1                                                                                                                                                                                                                    |
| It is requested that the Owner determine and pay for the County Building permit.                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Contractor to obtain the permit, but Owner will pay for it.                                                                                                                                                                                                                                          |
| Can you provide a list of other permits that may be required for this project? Are there any Promontory specific permits we need to be aware of?                                                                                                                                                                                                                                                                                                                                                                                              | Everything goes through the county building permit process.                                                                                                                                                                                                                                          |
| Can you provide a valve list for the project? There appear to be inconsistencies and missing information between the mechanical sheets and the P&IDs. For example Val 10-219 shown on 10N01 appears to be the same as HV-20-120 shown on 20M03. HV 10-219 on 10N03 does not appear to be tagged or called out on 20M03.                                                                                                                                                                                                                       | A valve list will not be provided. However, Key Tag 1 on 20M03 is updated via Addendum No. 2.                                                                                                                                                                                                        |
| There is not a gate valve specification but it also appears there are no gate valve symbols used in the P&IDs. Please confirm there are no gate valves on the project.                                                                                                                                                                                                                                                                                                                                                                        | Gate valves are located in civil yard piping drawings. Gate valve specification was included in Addendum No. 1                                                                                                                                                                                       |
| On sheet 01C01 please clarify what is being identified by point numbers 100-107. It appears to be concrete. Please provide details or direction on this.                                                                                                                                                                                                                                                                                                                                                                                      | Valley gutter concrete CR110. Callout for Typ added to 01C01                                                                                                                                                                                                                                         |
| The specifications reference pavement markings and signage but neither are shown on the civil drawings. Can you clarify if any of this will be required and if so, provide additional details?                                                                                                                                                                                                                                                                                                                                                | Ignore pavement markings spec as it is not shown in the paving area.                                                                                                                                                                                                                                 |
| Note 6/01C01 references detail CR201, which is not provided in the plan set. Can you please provide?                                                                                                                                                                                                                                                                                                                                                                                                                                          | Note changed to call out base course thickness. No detail. Sheet reissued with other changes                                                                                                                                                                                                         |
| On plan sheet 10DC01, on the northwest side of Existing WTP there is a “W” line that is hatched but does not have an associated key note. Please provide guidance for this line.                                                                                                                                                                                                                                                                                                                                                              | Yard pipe drawings show the work that is to take place in this area. Keynote 8 added to 10DC01.                                                                                                                                                                                                      |
| On plan sheet 00G13, there are a few cells in the "Comments" column that are cut off and we are missing information. Please clarify.                                                                                                                                                                                                                                                                                                                                                                                                          | See Addendum No. 2 for the updated pipe schedule.                                                                                                                                                                                                                                                    |
| Can you clarify if the existing underslab piping is encased?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Yes, all underslab piping shall be concrete encased.                                                                                                                                                                                                                                                 |
| Section 00 72 00-14.02-B, Section 01 45 00-1.05-B, and Section 01 45 24-1.05-A all state that quality control/testing & special inspections are paid for and the responsibility of the owner. In Section 31 00 00-3.04 it states all this testing is the responsibility of the contractor. Will you clarify who is responsible for QC? Per IBC it is usually required that someone other than the Contractor pay for “Special Inspections”. Special inspections will also involve any excavation and backfill associated with the structures. | The geotechnical engineer under the design engineer will provide excavation and soils inspection. Soils compaction testing is to be done by Owner's testing agency. Contractor will coordinate testing with QC and special inspections agency provided by Owner. Earthwork Spec changed accordingly. |
| Have all required easements been obtained for work crossing and parallel to N. Promontory Ranch Rd.?                                                                                                                                                                                                                                                                                                                                                                                                                                          | Easements will be obtained or are in place for work in and adjacent to Promontory Ranch Road                                                                                                                                                                                                         |
| Sheet 05C01 shows a 4” IRR line running from the northwest side of the process building. Please provide information on this line.                                                                                                                                                                                                                                                                                                                                                                                                             | See landscape drawing 04C03 for origination and tie in of 4" IRR to provide irrigaiton water to berm planting area.                                                                                                                                                                                  |
| Please provide guidance on material types for grating systems, handrails, ladders and cross over ladder platforms located in the chemical building.                                                                                                                                                                                                                                                                                                                                                                                           | Structural drawings, Structural General Notes, and typical details call out materials for grating, handrails, ladders, etc.                                                                                                                                                                          |
| Note 5 on 10CD01 states that all mature evergreen trees are the be removed and protected during construction then replanted once we have completed grading activities. However, during the pre-bid, it was stated we could alternately remove these trees and replace with new. Please clarify.                                                                                                                                                                                                                                               | Bid as shown. As discussed, at contractor's option trees may be discarged and matching trees replanted in their place at the end of the project.                                                                                                                                                     |
| Section 01 55 26-1.07-E states that a minimu of 1 lane in each direction is required to be open at all times on Promontory Ranch Rd. However, we are crossing this roadway 3 times with new utilities. Can this requirement be modified to allow us to cross this roadway or are you expecting us to bore under the road?                                                                                                                                                                                                                     | One lane is required to be open to traffic per Promontory requirements. Contractor to provide solution with means and methods. Trench cuts may be plated to allow for traffic.                                                                                                                       |
| During the site walk on 9/23/26, it was noticed that a staircase in the existing GAC Building is not currently shown on the drawings. Currently sitting next to the Blue Suction Tank. The mezzanine above it which the staircase connects to is being removed as apart of the demolition scope. Is the staircase to be removed as well?                                                                                                                                                                                                      | Yes, the stairs to the mezzanine are to be removed as well. See Addendum No. 2.                                                                                                                                                                                                                      |

| <div><div></div><div>BIDDER QUESTION LOG</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| Signal Hill Water Treatment Plant Optimization Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 10/12/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| INQUIRY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | FINAL RESPONSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| (1) The exterior finishes architectural elevations for the chemical building do not provide wall elevations showing a detailed wall build up. Can these be provided?<br>(2) Is there a vapor barrier required similar to the GAC building walls?<br>(3) What is the thickness of plywood veneer that matches existing?<br>(4) How does the plywood veneer attach to masonry or the insulated panels?<br>(5) Do you have details for terminating the veneer around openings?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (1) Provided on updated 70A05.<br>(2) Yes, there is a vapor barrier between the CMU wall and the lumber furring/plywood.<br>(3) Record drawings indicate plywood is 3/8" R.S. Grade "A" Ruf-Tex Plywood.<br>(4) Plywood attaches to treated lumber furring strips. Lumber furring strips are attached to CMU with masonry anchors or exterior rated masonry concrete screws (tapcons).<br>(5) Detail GA was added to 70A05. The veneer is cut or terminates at the door opening the same way the existing buildings terminate.<br>Any gap between veneer and CMU at door opening is to be grouted to match existing. |
| Please provide geotechnical report for the project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Geotechnical reports were provided via Addendum No. 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Can we get clarification on which company is currently being used for the existing HVAC controls for this building?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | New and existing HVAC units will be individually operated at a local level. On P&IDs 08N02 and 08N03 and we showed new fans and MAU with status and alarms to PLC, but no building control system. And on the existing system, for example, fans and heaters have control panels based on a thermostat and heaters.                                                                                                                                                                                                                                                                                                  |
| Pivot gates have gate operators with access controls. To relocate a pivot gate, I would need to know what type of pivot gate needs to be replaced and who the manufacture is. Unless the existing gate is a manual, double swing gate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | These are not pivot gates. Gate motors are solar and mounted to gates including sensors. Ghost Controls solar heavy duty single automatic gate opener, on an extendable landowner gate on a square post concreted into the ground. Bid walk and site visits to see existing gates to be relocated. Photos may be included with the question response sheet. IMG_5947 from MWH Civil Photos                                                                                                                                                                                                                           |
| While reviewing the GAC piping connection between Drawings <b>40M01A</b> and <b>40M02</b> , we noted that Drawing 40M01A references Detail <b>MP545</b> for the wall penetration.<br>Our quotation is based on using ductile-iron pipe where permitted. Since the piping is shown as continuous through the wall, it is not clear how the pipe is intended to be installed through the sleeve or where the field connection should be located.<br>Would either of the following arrangements be acceptable?<br>• A fabricated DIP wall pipe in accordance with Detail MP566, or<br>• A plain-barrel DIP spool through the MP545 sleeve with a restrained flange adapter located outside the wall<br>Please confirm the preferred wall-penetration arrangement and the required location of the field connection. If the MP545 sleeve arrangement is intended, please confirm whether a removable closure spool is required and provide the minimum required clearance between the flange adapter and the wall face.<br>If neither proposed arrangement is acceptable, please provide the intended DIP penetration and connection detail. | The new wall penetrations through the existing wall as part of Bid Alternate A should use Typical Detail MP544. This has been updated via Addendum No. 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| There is piping shown on the plans identified as <b>RW</b> . The pipe schedule calls for exposed RW piping to be steel pipe with no lining or coating specified.<br>Can you please confirm if this is correct? Is the exposed RW piping intended to remain as bare steel, or is a lining and/or coating required?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | The pipe schedule has been updated via Addendum No. 2. RW pipe shall have CM lining and EPU coating.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| It appears that the piping shown on the plans for the <b>BWS, GCE, and GCS</b> services is detailed as welded steel pipe. However, the specifications also allow the Contractor the option to use ductile iron.<br>This is making the bid a little difficult to price consistently because using ductile iron would require us to make assumptions regarding fitting configurations, spool lengths, bolt packs, and other installation details. It could also affect the installation crew and production.<br>Can you please clarify the intent behind allowing both material options? Does Mountain Regional have a preferred pipe material for these services?<br>From a bidding standpoint, it may be cleaner to require welded steel pipe for the base bid and consider ductile iron as a potential value-engineering option after award. That would help ensure all contractors are bidding the same scope and materials.                                                                                                                                                                                                           | The pipe schedule has been updated. For bidding purposes, follow the updated pipe schedule that lists DIP for piping in the GAC area that is 10 inches or smaller. For 12 inches and larger, assume steel pipe. Piping materials that differ from this updated pipe schedule will be evaluated as a potential value-engineering option after award.                                                                                                                                                                                                                                                                  |



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| Signal Hill Water Treatment Plant Optimization Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 10/12/2026                                                                                                                                                                                                                                                                                                                                                                                            |  |
| INQUIRY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | FINAL RESPONSE                                                                                                                                                                                                                                                                                                                                                                                        |  |
| <p>I found that the civil drawings show a different excavate elevation than the structural drawings. Can you clarify what is the required excavation elevation?</p> <p>Solids holding<br/>01C04 FF @7043.33<br/>60S05 FF @ 7043.67<br/>01C02 EX TO 7045</p> <p>CHEM<br/>01C02 EX TO 7037.5<br/>70S07 TOF 7041 - 2.5' THICK = 7038.5 - 2' STRUCT FILL = 7036.5</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | <p>Drawing 01C02 has been updated to show correct excavation elevations and corresponding footing lines from structural drawings. Note that this is a conceptual drawing to show possible extents of excavation per Geotechnical report. Per general note 3 the Contractor is to submit an excavation and shoring plan.</p>                                                                           |  |
| My precast concrete supplier says that the largest size manhole they can make is 10' DIA. Would this size be considered for the Irrigation Manhole or do we need to look at a square option or cast-in-place option?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | Confirmed with Oldcastle precast again on 10/7 that 12' dia is available out of their Ogden facility. Spec 03_48_53 lists Oldcastle as a manufacturer of Precast Concrete Manholes.                                                                                                                                                                                                                   |  |
| Please confirm that the EC will be responsible for providing and installing an external Power Quality Meter "PQM" shown downstream of SWBD-MAIN sheet 02E01.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | Confirmed.                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Please confirm that Distribution Panel "DP-Main" is existing as described on the panel schedule sheet 03E01. Please confirm if the existing panel on site labeled as "DP-TP" is the same as "DP-Main".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | Confirmed.                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Please confirm that Ex MCC-GAC has sufficient space to accommodate the (5) additional buckets shown on sheet. 02E02. Please provide the Nameplate Manufacturer information for this gear.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | The (5) new MCC-GAC buckets are part of Bid Alternate A (02E02 Key Note 1). There is currently space for two additional vertical sections. The gear was assembled by Bisel and is an Allen-Bradley Centerline. Bisel Job # 0399 Name SIGNAL HILL WTP. The Contractor shall field-verify available space before ordering buckets.                                                                      |  |
| <p>The Plant Area Matrix 26 05 00 Table 1 indicates GRS conduit for process and exterior areas. However, several electrical plan sheets indicate requirements for VC-coated conduit that does not appear to be reflected in the Plant Area Matrix.</p> <p>The following discrepancies have been identified:</p> <p>Sheet 01E01 – Site Plan: Requires PVC-coated conduit.</p> <p>Sheet 01E02 – Irrigation Pump Station Plan: Requires PVC-coated conduit.</p> <p>Sheet 01E03 – Main Treatment Building: Requires PVC-coated conduit.</p> <p>Sheet 20E01 – Pretreatment Wet Wells / Solids Thickening Plan: Requires PVC-coated conduit.</p> <p>Sheet 30E01 – Membranes and Solids Handling Electrical Plan: Requires PVC-coated conduit.</p> <p>Sheet 40E01 – Existing GAC Area: Requires PVC-coated conduit.</p> <p>Sheet 40E02 – New GAC Area: Requires exposed conduit to be PVC-coated.</p> <p>Please update the Plant Area Matrix as necessary to clearly and consistently identify the required conduit for each area.</p> <p>Please confirm that Schedule 80 PVC is the intended conduit material for surface and exposed raceways within the Chlorine Room.</p> |  | GRS is acceptable in all locations except for the following: the solids handling areas for the press and conveyor this should be PVC Coated, below grade locations in the pretreatment areas which should be PVC coated, Chemical building process rooms where Schedule 80 is to be used due to corrosion concerns.                                                                                   |  |
| Sheet 30E02 shows VFD AC-95000A and VFD AC-95000B located in the Electrical Room are shown as standalone VFD's. However, these VFDs are shown as being integral to MCC-Main on the electrical one-line diagrams. Please clarify which is correct and update the drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | The oneline governs. The VFDs for AC-95000A and AC-95000B are integral to new MCC-MAIN, with line reactors, as shown on 02E01. No standalone VFDs are required. 30E02 will be revised by addendum to remove the standalone VFDs.                                                                                                                                                                      |  |
| VCP-70-90970 is shown on the one-line diagram on Sheet 02E02; however, its physical location could not be identified on the plans. Please provide the location of VCP-70-90970 and identify the applicable plan/detail showing its installation location.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | Location is shown in revised addendum drawings.                                                                                                                                                                                                                                                                                                                                                       |  |
| Please confirm whether a Lightning Protection system is required as part of this project. If required, please provide the applicable plans and specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Lightning protection spec has been added as part of the addendum as well as a note on the grounding plan for the chemical building.                                                                                                                                                                                                                                                                   |  |
| The new relocated RMP feeders "DB-1" on sheet 01E01 is not included with the Duct bank sections on sheet 05E11. Please clarify what is required. DB-1 calls for concrete encasement. However, RMP spec does not allow for concrete encasement, please clarify.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | DB-1 is the relocated Rocky Mountain Power (RMP) primary feeder. Construct it to RMP standards (01E01 Key Note 2), not to the Div 26 duct bank sections. RMP requirements govern: if RMP does not allow concrete encasement, install DB-1 as RMP specifies. Conduit quantity, size, pull boxes and the transformer pad vault (Key Note 3) shall match RMP's work order. Coordinate directly with RMP. |  |

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| <div>   </div>                                                                                                                                                                                                                                                                                                                        |  | <div>BIDDER QUESTION LOG</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| Signal Hill Water Treatment Plant Optimization Project                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | 10/12/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| INQUIRY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | FINAL RESPONSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| Conduit schedule # P002 calls for (6) 4" conduits, with (4) #500's and (1) #1/0 grounding conductor, between the existing Utility Transformer and the new SES. Please clarify whether new conduits and conductors are required to replace the existing feeders, or if the existing feeders are intended to be reused and extended to the new SES. If the existing conductors are to be reused, please confirm they are of sufficient length to terminate at the new SES.                              |  | New. P002 is new conduit and new conductors, (6) 4" with (6) sets of 4-500 kcmil and 1/0 G, from the new utility transformer/pad vault to the new SES. Do not reuse the existing secondary conductors. Coordinate the secondary conduit stub-ups at the pad vault with RMP.                                                                                                                                                                                                                                                                                                                                                                       |  |
| Conduit schedule # P003 calls for (6) 4" conduits, each containing (4) #500's and (1) #1/0 grounding conductor, between the new SES and the new ATS. Please clarify whether the new conduits and conductors are to be routed similarly to the existing installation, using surface raceways nipped between the equipment, or if a new underground ductbank is or equipment vault for SWBD-MAIN is required.                                                                                           |  | These are new conductors and conduits. A similar arrangement to the surface raceways is acceptable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Conduit schedule # P004 is shown as existing (DB-4) between the new SES and the existing Solor Fused Disconnect. Please clarify whether new conduits and conductors are required to replace the existing feeders, or if the existing feeders are intended to be reused and extended to the new SES. If the existing conductors are to be reused, please confirm they are of sufficient length to terminate at the new SES.                                                                            |  | It is unknown if the existing feeders will be of sufficient length to reach the new termination points. Plan on new feeders from the disconnect to the SES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| Conduit schedule # P005 shown as existing (DB-2). It calls for (4) 4" conduits, with (4) #350's and (1) #1/0 grounding conductor, between the new ATS and the existing Standby Generator. Please clarify whether new conduits and conductors are required to replace the existing feeders, or if the existing feeders are intended to be reused and extended to the new ATS. If the existing conductors are to be reused, please confirm they are of sufficient length to terminate at the new ATS.   |  | Reuse the existing DB-2 conduits. Plan on new conductors per the conduit schedule.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Conduit schedule # P010 shown as existing (DB-6). It calls for (4) 4" conduits, with (4) #350's and (1) #1/0 grounding conductor, between the new SWBD-MAIN and the existing DP-MAIN. Please clarify whether new conduits and conductors are required to replace the existing feeders, or if the existing feeders are intended to be reused and extended to the new SWBD-MAIN. If the existing conductors are to be reused, please confirm they are of sufficient length to terminate at the new ATS. |  | Existing conduits into the building will need to be intercepted and re-used. Location is different enough that new conductors should be supplied.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Conduit schedule # P006 calls for (6) 4" conduits, each containing (4) #500's and (1) #1/0 grounding conductor, between the new ATS and the new SWBD-MAIN. Please clarify whether the new conduits and conductors are to be routed similarly to the existing installation, using surface raceways nipped between the equipment, or if a new underground ductbank is or equipment vault for SWBD-MAIN is required.                                                                                     |  | Plan on underground - DB detail has been added to the revised drawing set.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| Conduit schedule # P007 calls for (1) 3" conduits, each containing (3) #4/0 and (1) #2 grounding conductor, between the new SWBD-MAIN and the new Active Harmonic Filter. Please clarify whether the new conduits and conductors are to be routed using surface raceways nipped between the equipment, or if a new underground ductbank is or equipment vault for SWBD-MAIN is required.                                                                                                              |  | The Active Harmonic Filter (AHF) is NEMA Type 1, indoor (26_35_26). Route P007 underground from SWBD-MAIN into the Main Treatment Building and then exposed to the AHF. See the response to Question 16 for the AHF location.                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| The location of the Active Harmonic Filter is not shown. Please Clarify where it will be located.                                                                                                                                                                                                                                                                                                                                                                                                     |  | See location of the AHF in the new electrical room.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Will the new SWBD-MAIN be placed on the existing pad or will a new pad or equipment vault be set in place for it?                                                                                                                                                                                                                                                                                                                                                                                     |  | Install new SWBD-MAIN on a new concrete equipment pad sized to the Owner-furnished switchboard footprint, with conduit stub-up window, per Section 26_05_00 and the Structural details. No equipment vault is required for SWBD-MAIN. The pad vault in 01E01 Key Note 3 applies to the RMP utility transformer only.                                                                                                                                                                                                                                                                                                                              |  |
| What systems fed by the existing SWBD-MAIN will need to remain online while this gear is replaced? Will a temporary Generator be required to keep systems online?                                                                                                                                                                                                                                                                                                                                     |  | Per Section 01_14_00, the plant operates on standby power from November 1 to November 15, 2027, while the transformer and switchgear are replaced, during the full-plant shutdown. The facility requires temporary power for lights, HVAC equipment, computers and the SCADA system (01_14_00 1.11). Because the ATS and SWBD-MAIN are replaced, the existing standby generator cannot serve the plant through the new gear during the changeover. The Contractor shall provide a temporary generator and temporary connection to DP-MAIN (or other means accepted by the Owner) to maintain these loads. Submit the plan with the shutdown MOPO. |  |
| Distribution Panel DP-MB is new located inside the existing Main Building. Please provide a detail showing how DB-40 is to be routed connecting to panel DP-MB.                                                                                                                                                                                                                                                                                                                                       |  | It will be wall penetrations on the back of that electrical room utilizing junction boxes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |



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| Signal Hill Water Treatment Plant Optimization Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 10/12/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| INQUIRY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | FINAL RESPONSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| Conduit schedule #'s P0011, P0012, P012A, P012B, P013, P014, P015, & P016 are shown on the Conduit schedule as Existing. Please confirm that these feeders will remain in place As-Is.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | Confirmed. P011 is the only one where equipment is being replaced, P012, P012A, P012B, P013, P014, P015 and P016 are existing to remain as-is. Where an existing feeder lands on new equipment (P011 to new MCC-MAIN), reconnect the existing feeder. Extend it if required, with splices in a junction box/trough.                                                                                                                                                                                         |  |
| Conduit schedule #'s P70981 & P70982 are feeders for the EUH units being fed from LP-CHEM, but the one line shows them being fed from DP-CHEM. Please clarify which is correct.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | The oneline is correct. EUH-70-981 and EUH-70-982 are 20 kW, 480V, 3-phase units fed from DP-CHEM (60A breakers) per 02E02. Conduit schedule entries P70981 and P70982 will be revised by addendum to originate at DP-CHEM.                                                                                                                                                                                                                                                                                 |  |
| The feeder for MAU-70-951 in not found on the Conduit schedule. Please clarify what is required for power and controls.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | MAU-70-951 (7.5 HP) is fed from MCC-CHEM (20A, FVNR) per 02E02. Power is conduit P70951 (1", 3#12, #12 G), which the conduit schedule labels LCP-70-951, the unit's control panel/disconnect. Controls are furnished with the unit.                                                                                                                                                                                                                                                                         |  |
| Verkada/security cameras are shown on Sheets 01E01, 05E06, 30E01, 40E02, 70E02, 00N10, and 00N11. Please clarify who is responsible for the CCTV/security camera systems, including raceways, cabling, providing and installing the cameras and associated equipment.                                                                                                                                                                                                                                                                                                                                                                  |  | Contractor provides raceway, boxes, mounting provisions and shielded Cat6 cabling from NIP-MAIN to each camera location (conduit F003). Verkada cameras and licensing will be Owner-furnished; the Contractor mounts and connects them. Owner configures the cameras.                                                                                                                                                                                                                                       |  |
| Will Access Control systems be a part of this project? If so, please clarify necessary design and scope of work details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | There are existing gates with access controls. These gates shall be relocated per the civil drawings with the existing access controls.                                                                                                                                                                                                                                                                                                                                                                     |  |
| The DP-MAIN one line shows (2) 400A breakers labeled "Temporary Power" however, the loads served by these breakers are not identified. Please clarify what equipment each 400A breaker is intended to serve. Confirm whether temporary distribution panels are required to split the (2) 400A feeds into the individual temporary systems.                                                                                                                                                                                                                                                                                             |  | The two 400A "Temporary Power" breakers serve TEMP SKID 1 and TEMP SKID 2 (the DB-TEMP skids on 01E01), via conduits P024 and P025, each with (2) parallel sets of 3-3/0 and #6 G. Each skid is a packaged temporary distribution assembly that serves the temporary MF trailers, PB-DB-TEMP skids and associated loads. No separate temporary distribution panels are required beyond the skids' integral distribution.                                                                                    |  |
| Drawing 01E01 identifies Temporary MF Pumps, PB-DB-TEMP Skids, Temporary MF Trailers, Temporary Chemical Storage Trailer, and DB-TEMP Skids. However, the electrical loads and feeder requirements for this equipment are not identified in the one-lines, panel schedules, or conduit schedules. Provide the required temporary distribution system, one line include a panel schedule with breaker sizes, feeder conductor size, and connection requirements for each temporary system.                                                                                                                                              |  | Temporary loads are fed from the two 400A temporary breakers from DP-MAIN to TEMP SKID 1 and TEMP SKID 2 (see Question 25). Temporary MF trailers and skids are vendor packages furnished with their own distribution, and the Contractor connects to the vendor-provided terminations. The relocated existing MF feed pumps in Signal Hill Pond shall be reconnected to their existing VFDs/starters via temporary cable after re-location of those VFDs. See updated details in addendum drawings.        |  |
| Drawing 01E01 shows temporary ductbank routing between the building and temporary MF equipment. However, the ductbank configuration, termination points, and required power/control conduits are not defined. The DB-TEMP skid section detail appears conceptual. Please provide the conduit quantities, sizes, and conductors/cabling required for each temporary ductbank and identify the associated termination points. Provide a detail showing how these ductbanks will enter the existing building. Also clarify the required controls, instrumentation, communications, and PLC interconnections for the temporary MF systems. |  | See updated drawings in the addendum package. Temporary power will be done through wall penetrations.                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| Will there be a temporary PLC to control the Temporary systems or will the existing PLC be utilized? Will the existing PLC require modifications?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | No separate temporary PLC is required. The temporary MF trailers and skids connect over Ethernet to the existing PCM-MAIN. The Owner-assigned ICSC (SKM) integrates them per 01_14_00 1.11. The existing PLC-MAIN is being replaced by the Owner (01_11_00 1.06), and the Contractor is not required to modify it. The Contractor terminates field wiring to the new PLC-MAIN on existing termination locations.                                                                                            |  |
| A portion of existing duct bank DB-5 is to be rerouted. See sheet 01E01 Keynote 4. It indicates DB-5 is to be intercepted for the solar system and irrigation pump station work. Please provide details of the existing DB-5 including conduit sizes, quantities, power conductors, and control/signal cabling needed to complete the DB-5 reroute and reconnections.                                                                                                                                                                                                                                                                  |  | DB-5 carries the solar array feed to the main plant. According to as-built drawings it is three sets of 400 kcmil aluminum with a #2 Copper ground in 3 - 3" conduits. Per 00DE01 General Note 1, the Contractor shall field-verify the conduit quantity, sizes and conductors before starting work. Intercept DB-5 with a traffic-rated box, install waterproof splices, re-feed the inverters from the box, and reinstall the duct bank after the irrigation pump station piping work (01E01 Key Note 4). |  |

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| Signal Hill Water Treatment Plant Optimization Project                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | 10/12/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| INQUIRY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | FINAL RESPONSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| <p>During the pre-bid meeting, it was indicated that the existing Solar Array provides power to the WTP. DB-5 is required to be intercepted and modified as part of the work.</p> <p>Please clarify the allowable duration that the Solar Array may be offline while the DB-5 modifications and reconnections are completed. Identify any WTP systems that must remain operational during this work and confirm whether temporary power or a temporary generator will be required during the shutdown.</p> |  | <p>The WTP remains on utility power while the solar array is offline. The DB-5 work does not require a plant shutdown or temporary generator. Limit the solar outage to 20 consecutive working days and coordinate the outage with the Owner a minimum of 7 days in advance.</p>                                                                                                                                                                                                                                                                                                                                                        |  |
| Can Simplex by Johnson Controls be added to the manufacturer specification for the fire alarm?                                                                                                                                                                                                                                                                                                                                                                                                             |  | Simplex by Johnson Controls can be evaluated as an "or equal" during the submittal phase following requirements in Section 01_33_00 Part 1.03.I.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| Will this just be a fire alarm system for the Signal Hill location at 7563 N Promontory Ranch Rd or will this be all three buildings? Chemical Building, Existing GAC building and New GAC building?                                                                                                                                                                                                                                                                                                       |  | The existing fire system will remain in place. Per 40F01, the GAC fire protection system (both existing GAC and new GAC) shall tie into the existing system. The chemical building will have a new, separate fire protection system per 70F01.                                                                                                                                                                                                                                                                                                                                                                                          |  |
| Please provide an Instrumentation and Control Equipment List identifying the LCPs, hand stations, instruments, analyzers, and other field control devices required for this project. Please identify which equipment as Owner furnished, Salvaged for re-use, vendor furnished, or Contractor furnished.                                                                                                                                                                                                   |  | A comprehensive list of LCPs, hand stations, instruments, analyzers, and other field control devices required for this project will not be provided. LCPs, hand stations, and field control devices can be identified on P&ID and Electrical plan drawings. Instruments and analyzers can be identified on P&ID drawings and in the instrument data sheets included in Division 40 instrument specifications. Control panels designated as "VCP" will be vendor control panels provided as part of a vendor package. Notes on P&ID and Electrical plan drawings identify equipment that will be Owner furnished or salvaged for re-use. |  |
| Sheet 10DC01, Keynote #3 indicates that the existing electrical feed to the facility shall be rerouted. Please clarify whether the existing conduit and conductors that will no longer be utilized are required to be removed in their entirety, or if the conductors may be removed and the existing conduit abandoned in place.                                                                                                                                                                          |  | Remove the abandoned conductors in their entirety. Existing conduit within the footprint of new construction (Chemical Building excavation) shall be removed. Conduit outside new construction may be abandoned in place, cut and capped below grade. This is consistent with 00DE01 Key Notes 2 and 3.                                                                                                                                                                                                                                                                                                                                 |  |
| Sheet 00DE01 Keynote #2 indicates that the (2) existing sheds are to be removed and he associated conductors pulled back to their source. Please identify the existing source for the electrical feeds to each shed and clarify whether the existing conduits are required to be removed or may remain abandoned in place.                                                                                                                                                                                 |  | This work has already been completed by the Owner.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| Sheet 30M04 shows the buried BWW line in what appears to be push on or MJ. The pipe schedule calls for the exposed BWW to be DIP with flanged or grooved connections and the line under calls out C900 with RPO or RMJ with a comment in the comment column stating, "where indicated on the drawings". Is the intent for this buried (encased) line to be the C900?                                                                                                                                       |  | The pipe schedule has been updated via Addendum No. 2. The buried (encased) pipe shall be DIP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| Sheet 30M04 also shows the buried MFF line in what appears to be push on or MJ. The pipe schedule calls the buried pipe to be DIP with flanged or grooved connections. Please verify what pipe and connections are to be used in this system.                                                                                                                                                                                                                                                              |  | The pipe schedule has been updated via Addendum No. 2 to clarify this point.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| The pipe schedule shows the MFF line exposed 12" to be PVC with SW joints. Several sheets show the MFF line in 10" and 6" size pipe and the joints appear to be SW. Should the pipe schedule include the other sizes on this system not just the 12"?                                                                                                                                                                                                                                                      |  | The pipe schedule has been updated via Addendum No. 2 to clarify this point.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| In spec section 40 05 00 Common Work Results for General Piping, Part 2.03 Flange Bolts & Nuts, D Steel Pipe, 2 Underwater pipes and pipes adjacent to wet walls. There are two bolt specs, Grade B8M and Alloy Group 7. Is there a preference for either of these?                                                                                                                                                                                                                                        |  | 2.03.D.2 for underwater pipes and pipes adjacent to wet walls has been updated to remove the Group B7 bolts and nuts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| There are two Detail MP544 on sheet 00TM06. The title of both of these details is "Wall Penetration – Cast in Sleeve W/ Barrier Seals. In the body of one of these details notes a core drilled penetration and shows a penetration without a sleeve. These details are shown throughout the plans. Please advise as to which penetrations require the sleeve.                                                                                                                                             |  | There are two sheets for Typ MP544. The first sheet is for new wall penetrations (requiring a sleeve), the second sheet is for existing wall penetrations (involving boring through an existing wall).                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| The PW line connects from the plumbing drawings as shown on sheet 70M08 detail L and continues through the building to the CIP tank shown on sheet 30M01 it appears on that drawing that it stops near the tank. Does this line connect to the CIP tank or connect somewhere else?                                                                                                                                                                                                                         |  | This has been corrected via Addendum No. 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| The Sodium Hypochlorite (BSH) system shows SCH 80 CPVC. Specification Section 40 05 63 "Ball Valves" Part 2.05 "Stainless Steel Ball Valves" Subsection C.1b specifies Hastelloy C for Sodium hypochlorite service. Are the Hastelloy valves required or can CPVC valves be used?                                                                                                                                                                                                                          |  | CPVC valves may be used for sodium hypochlorite service. Ball valves used for sodium hypochlorite service must be vented as noted in Area 70 mechanical sheets. Subsection C.1.b has been deleted via Addendum No. 2.                                                                                                                                                                                                                                                                                                                                                                                                                   |  |



| <div>   </div> <div> <div>BIDDER QUESTION LOG</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                      |
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| Signal Hill Water Treatment Plant Optimization Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                      |
| 10/12/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                      |
| INQUIRY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | FINAL RESPONSE                                                                                                                                                                                                                                                                                                       |
| Spec section 40 05 06.10 "Strainers" part 2.01 Y-Type Strainers C. Y-type strainers less than 3" in diameter for chemical service calls for the bodies to be PVC. On the chemical services that call out CPVC should these strainers also be CPVC?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Yes, for chemicals services noted as CPVC, CPVC wye strainers shall be used. Addendum No. 2 requires CPVC strainers for chemical services noted as CPVC.                                                                                                                                                             |
| The pipe schedule shows the Sulfuric Acid (SA) to be contained outside the containment area with the containment pipe to be CPVC and the carrier pipe to be PFA. The fill line running to the SA storage tank calls out a 3" fill line in a 6" containment. We can only find the PFA tubing up to 1-1/2". What material should be used for this 3" fill line?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3" Alloy 20 piping shall be used for the fill line for sulfuric acid and contained within 6" CPVC.                                                                                                                                                                                                                   |
| On sheet 00G13 Pipe Schedule 2 part of the "Comments" column is cut off. We need to know what these comments say.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | The pipe schedule has been updated/corrected via Addendum No. 2.                                                                                                                                                                                                                                                     |
| On sheet 70N08 "Sulfuric Acid Feed P&ID 1 it shows a 3/4" SA line to the CIP Tank. Sheet 70N09 P&ID 2 shows a 1/2" SA line to Flash Mix. The note on the pipe schedule (part of which is cut off) calls out 1/2" tubing requires 3" containment (cut off part) tubing requires 4" containment pipe. Assume this would be the 3/4" line. Sheet 70M03 section detail C calls 3" CON - 1/2" SA and a 4" CON - 3/4" SA. Then on sheet 40M01 it shows 4" CON - 1/2" SA and 3" CON - 3/4" SA. Sheet 60M01 DA Plan shows 3" CON - 3/4" SA. Sheet 30M01 shows 4" CON - 1/2" SA connecting to the CIP tank and shows the continuation of 3" CON - 3/4" SA. Finally sheet 20M02 shows 3" CON - 3/4" SA, with the 3/4" connecting to the flash mix. Please verify that the 1/2" tube goes in the 3" containment and the 3/4" goes in the 4". Also verify which line goes to which connection point. | 3/4" SA line to the CIP Tank to accommodate the higher flow rate. 1/2" SA line to Flash Mix. 1/2" tube goes in the 3" containment and the 3/4" goes in the 4".                                                                                                                                                       |
| Pipe schedule shows "BURIED ALL as HDPE SDR 32.5. There is an overflow line that runs from the solids holding tank into the thickening basin. Part of this line is submerged and the fitting shown on the drawings does not look like HDPE butt fusion. What material and joint system is to be used inside the tanks?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | The pipe schedule has been updated via Addendum No. 2 and indicates that the 6" OF pipe from the solids holding tank to the solids thickening basin will be DIP.                                                                                                                                                     |
| Notes throughout the plans refer to the valve schedule. We cannot locate a valve schedule. Will a valve schedule be provided prior to bid date?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No valve schedule is provided. The mechanical drawings show all valves and key tags include size and valve-type ID that corresponds to the valve specifications.                                                                                                                                                     |
| There are several systems on the pipe schedule that give the contractor options on the joints/fittings. On the systems that are ductile iron and or steel does the owner have a preference on flanged or grooved? On the underground systems the options are restrained push on or MJ, which is the owners preference?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | See updated pipe schedule included in Addendum No. 2. For concrete encased buried DIP, MJ fittings are preferred. For exposed piping, in general, either flanged or grooved are acceptable fittings. Layout drawings will be reviewed in detail during the submittal phase of the project.                           |
| Addendum No. 1 deletes Paragraph 7.10 of Section 00_73_00 – Supplementary Conditions in its entirety. However, Section 00_21_13, Article 21.01 states that the Owner is exempt from state sales and use taxes on materials and equipment incorporated into the Work and specifically instructs bidders that such taxes are not to be included in the Bid.<br>Please clarify whether bidders are to include applicable Utah sales/use taxes on construction materials and equipment incorporated into the Work. If taxes are required, please identify the applicable tax treatment/rate and confirm whether Article 21.01 of Section 00_21_13 is superseded.                                                                                                                                                                                                                             | This is a good catch. We will update 00_21_13 via Addendum No. 2 that provides consistency. We have learned on other projects that in Utah, the contractor pays all sales/use taxes even in the Owner is tax exempt. The Owner is only tax-exempt on purchases they make directly.                                   |
| Document 00 41 00, page 6 provides fields for Bidder Name, Contractor License Number, Name, Title and Date, but does not appear to provide a signature line for the corporation's authorized representative. The only signature line shown is the "Attest" line. Please confirm where the authorized corporate representative is to execute the Bid Form.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | The "Attest" line is the location for the signature (with the name/title/date under the attest line giving information for the authorized representative that is signing). As needed, attach evidence of authority to sign.                                                                                          |
| On Sheet 01C02, there is a callout within the chemical building footprint that says "Excavate El 7037.50" and it points directly to a contour line that is labeled 7040. Please clarify.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Drawing 01C02 has been updated to show correct excavation elevations and corresponding footing lines from structural drawings. Note that this is a conceptual drawing to show possible extents of excavation per Geotechnical report. Per general note 3 the Contractor is to submit an excavation and shoring plan. |
| Snow removal melting into neighboring property? How to dispose of that? Maybe a time and material haul off with an agreed upon percentage?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | There is enough space onsite for snow storage. In coordination with Owner, Contractor has several location options to push snow.                                                                                                                                                                                     |
| Dewatering? If we run into ground water, how will we address that?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Groundwater is not anticipated based on Owner experience with excavations onsite. But should groundwater be encountered, Owner and Contractor can coordinate on where to send the water.                                                                                                                             |
| Public relations. Will the owner or promontory be open to taking before and after construction photos/videos of the neighboring properties ?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Owner will coordinate directly with Promontory and potentially homeowners.                                                                                                                                                                                                                                           |
| Looking for confirmation that we can remove and replace that shed on top of the finished water tank.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Confirmed. The shed should be removable by crane. Contractor may relocate as needed for new GAC building excavation and shall put the shed back in place after.                                                                                                                                                      |
| Is there a deadline for submitting bidder questions?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | The deadline for submitting questions is 7 days prior to bid opening (see 00_21_13 7.03.A). Of course, the earlier questions are submitted, the better.                                                                                                                                                              |

| <div><div></div><div>BIDDER QUESTION LOG</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                         |
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| Signal Hill Water Treatment Plant Optimization Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                         |
| 10/12/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                         |
| INQUIRY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | FINAL RESPONSE                                                                                                                                          |
| Also, we appreciate the Owner’s willingness to extend the bid opening to October 22. This project has several complex components, and we are continuing to work through the details with our subcontractors and suppliers. Would the Owner be willing to consider an additional one-week extension, moving the bid opening to October 29?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Based on MRW's internal processes and timing, the bid opening date will remain as October 22.                                                           |
| I am not seeing a detail for the ABC road to vaults on page 01C01. Can you please provide a detail so we can get an accurate excavation quantity and material purchase quantity?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Callout to detail to AC pavement removed. Keynote 6 updated for correct ABC note.                                                                       |
| Section 46 41 34.01 – item 2.04.G.1: We request that a double reduction gearbox be allowed as well, as the mixer speeds specified in table 2.03.B can be achieved with a 1200RPM motor and a double reduction ratio.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A triple reduction gear box is required per Section 46_41_34.01 Part 2.04.G.1. This requirement will not be relaxed.                                    |
| Please consider Seepex pumps as an approved manufacturer for Section 43 23 57.10 – Progressing Cavity Pumps.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Seepex has been added as listed manufacturer in Section 43_23_57.10 via Addendum No. 2.                                                                 |
| Wind restraint cables are specified (2.01A, 2.03F, 2.03G), but I believe the Brine Maker is located indoors. Please confirm wind restraints are not needed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Wind restraint cables are not needed. The brine maker is located indoors. The references to wind have been deleted via Addendum No. 2.                  |
| Both 304 SS & 316 SS restraints are specified (2.03G.3 & 2.04F.1). Which material is required for the tank restraints?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 316 SS is preferred. Addendum No. 2 corrects the discrepancy and requires 316 SS.                                                                       |
| 2.05D specifies a full-drain outlet, which is not standard or needed on a Brine Maker. Is a full drain outlet required for the Brine Maker?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | See Addendum No. 2.                                                                                                                                     |
| Will a 6’1” diameter x 9’7” tall Brine Maker tank work, or are the dimensions listed in the schedule of 5’6” diameter x 9’0” tall the maximum allowable?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | See Addendum No. 2.                                                                                                                                     |
| For the water level control system (2.06A.1), will a solenoid valve work instead of an electrically actuated butterfly valve?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A solenoid valve is acceptable. The section has been updated via Addendum No. 2.                                                                        |
| A 4’D x 8’H dust bag housing is specified (2.06C) but not shown in the plans. Is this required and is there room for it?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Please exclude a dust bag housing from the brine maker. See Addendum No. 2.                                                                             |
| The specification calls for flexible couplers (3.02C) with 4% movement in the tank piping. The manufacturer requires these for the fittings on the lower sidewall only. Is it okay for us to provide flexible couplers that are approved by the Brine Maker manufacturer, on the fittings they require only, or do you want these for all fittings? We are not aware of expansion joints that are approved by the Brine Maker manufacturer, that have a 4% design movement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | See Addendum No. 2.                                                                                                                                     |
| Drawing 70N16 shows a pressure transducer on the sidewall, LIT on the top and LSH ball float on the top. Please confirm a pressure transducer with a controller with relay for high level, and a SmartBob salt level measuring device with display and 4-20 mA output are adequate. Please confirm those (2) instruments are adequate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | That is correct. These items are CAD artifacts.                                                                                                         |
| Drawing 70N16 shows a Brine Storage Tank Local Control Panel. Please confirm if separate controllers for the water level and salt level are adequate as a control panel is not standard with a Brine Maker.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Separate controllers for the water level and salt level are acceptable. Please should be single phase and 120 VAC.                                      |
| It appears we are missing some detail references for the crossover access ladders and sump grating in the Chemical Building.<br><br>1. Crossover Access Ladders: Drawing 70A02, Keynote #9, identifies the ladders as aluminum and references the structural drawings. However, we have not been able to locate a specific detail in the structural plans. We did find Typical Detail SR324. Can you confirm if this is the correct detail to use for these ladders and whether aluminum is the intended material?<br><br>2. Sump Grating: Drawing 70S08, Detail 1, references Typical Detail SR605 for the grating rebate, which calls for aluminum. We are assuming the grating itself is also intended to be aluminum. Can you confirm the required material for both the grating and rebate?<br><br>On other water treatment projects, we have typically seen FRP ladders, grating, and rebates used in chemical buildings due to the corrosive environment. Can you confirm whether aluminum is the intended material for these components or if FRP | Addendum No. 2 addresses this question by requiring FRP for the crossover access ladders into containment areas, requiring FRP grating and rebate, etc. |
| Please consider Seepex pumps as an approved manufacturer for Section 43 23 57.10 – Progressing Cavity Pumps.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Seepex will be added to the spec via addendum.                                                                                                          |





BIDDER QUESTION LOG

Signal Hill Water Treatment Plant Optimization Project  
10/12/2026

| INQUIRY                                                                                                                                                                                                                                                                                   | FINAL RESPONSE                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Follow up on our conversation; point 116 specifically needs to be revised. All the points from 110-116, are the correct?                                                                                                                                                                  | Coordinate points have been reviewed and updated. Added to Addendum No. 2                                                                                                                        |
| Can you please confirm the correct Davis Bacon Wages were attached to Addendum #1? The last Davis bacon project we estimated had higher rates. Can you clarify that the rates and fringe for plumber in addendum no. 1 are correct? Any information on this would be greatly appreciated. | The most recent Davis Bacon Wage Determination for Summit County, UT for Building Type construction is UT20260079. Addendum No. 1 provided the most recent wage determination for Summit County. |