

# Addendum 3

**City of Canton, Ohio**  
Purchasing Department  
218 Cleveland Ave. SW, 4<sup>th</sup> floor  
Canton, Ohio 44702

Sugarcreek Water Treatment Plant and Wellfield Improvements

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**Item/Project**

Water Department

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**Responsible Department**

Thursday June 9, 2022 at 2:00 PM local time

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**Bids Due On or Before**

## **Bid Proposal Submitted By:**

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**Company Name**

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**Street Address**

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**City**

**State**

**Zip**

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**Contact Person**

**Phone No.**

**Email Address**

**Addendum No. 3**  
**May 27, 2022**

**ADDENDUM NO. 1**

1. **Page 2, Item 8**, Page 11, Section 01 00 00 – General Requirements. 1.3 B Testing Laboratory. At the end of the paragraph, the following text was added: Testing and Inspections are described in Section 01 10 00 1.2 C and on Sheet SD-10 – Arch-Structural Standard Details Statement of Special Inspections. REPLACE “01 10 00” with “01 11 00”.

**INSTRUCTIONS TO BIDDERS**

2. **Page ITB-14, N. ADDENDA**. For Item 1, REPLACE “5/25/2022” with “6/2/2022”.

**MODIFIED STANDARD GENERAL CONDITIONS (EJCDC)**

3. **Page 22, 6.04 Property Insurance**. In 6.04 A. Builder’s Risk paragraph 1. ADD “Owner and Engineer do not need to be named insureds as mentioned above but shall be named additional insured.”

**APPENDIX D SPECIFICATIONS**

4. **Page 7, Table of Contents**, In Division 40 – Process Interconnections, DELETE row for Temperature Measurement Section 40 91 05 Page 1563. This specification is being deleted in Addendum 3.
5. **Page 176, Section 01 89 19 – Leakage Test & Disinfection**. Part 3.3 D. Test Procedures. Paragraph 5. ADD “d. Existing Raw Water Transmission Mains, Filter Gallery Piping, and Process Drains reused and incorporated into new work – 50 psi.”
6. **Page 196, Section 02 61 20 - Tank and Channel Cleaning**. Part 1.3. Schedule. ADD the following:

B. Additional Clearwells not included in Report.

<b>Tank/Structure</b>	<b>Floor Area</b>	<b>Depth of Sediment (IN)</b>	<b>Access Hatch Size (IN)</b>	<b>Vent (Y/N)</b>	<b>Ladder (Y/N)</b>
<b>East Aerator Clearwell</b>	58’0” x 18’-0”	1”	3’ x 3’	Y	N
<b>West Aerator Clearwell 1</b>	59’0” x 18’-0”	1”	3’ x 3’	Y	N
<b>West Aerator Clearwell 1</b>	59’0” x 18’-0”	1”	3’ x 3’	Y	N

7. **Page 214, Section 03 30 00 – Cast-in-Place Concrete.** Part 2.1 D. Reinforcing Materials. After 2. Epoxy coated Reinforcing Bars. ADD “(Not Used)”.
8. **Page 745, Section 22 14 29 – Sump Pumps.** In Paragraph 2.1 C, ADD, “Piping shall be galvanized steel pipe inside the crock to the PVC check valve and all other piping can be Schedule 40 PVC.”
9. **Page 907, Section 23 37 24 – Exterior Wall Louvers.** In Part 2.1. Manufacturers, Paragraph A. Ruskin Model, REPLACE “*EME520DD*” with “*EME420DD*”.
10. **Page 1460, 1463, Section 40 05 23 - Process Valves.** Part 4.5 C. Butterfly Valve Schedule.
  - For Valve PG14 (407) under Quantity column REPLACE “*I*” with “*2*”.
  - For Valve F#1 (411) under Size (Inches) column REPLACE “*30*” with “*24*”.
  - For Valve ASB (474), under Operator column REPLACE “*EM*” with “*MH*”, and under the Controls column REPLACE “*DG*” with “*NA*”. These valves shall be furnished by the Blower Manufacturer.
  - For Valve CW (480) under Ends column REPLACE “*MJ*” with “*FLG*”.
11. **Page 1465, Section 40 05 23 - Process Valves.** Part 4.5 D. Check Valve Schedule.
  - For Valve PG56 (403) under Quantity column REPLACE “*I*” with “*2*”.
  - For Valve ASB (476), under Remarks column REPLACE “*NA*” with “*FM*”. These valves shall be furnished by the Blower Manufacturer.
12. **Page 1469, Section 40 05 23 - Process Valves.** Part 4.5 E. Gate Valve Schedule. For Valve PG56 (402) under Quantity, REPLACE “*I*” with “*2*”.
13. **Page 1499, Section 40 90 00, Instrumentation Systems Basic Requirements.** Part 3.3 Field Quality Control. In Paragraph B.1 ADD the following sentence: “The calibration, loop checks and startup of instrumentation equipment are to be performed by the System Integrator and coordinated by the Contractor. Certified instrumentation technicians( EPRI, ISA) are not required to perform this work.”
14. **Pages 1506-1514, Section 40 91 00, Analytical Instruments.** Part 2.1 Manufactured Units.
  - REPLACE “*B. PH Analyzer*” with “*E. PH Analyzer*”
  - REPLACE “*C. Gravity Filter Backwash Monitoring System*” with “*G. Gravity Filter Backwash Monitoring System*”
  - ADD the following section:
    - “ F. Fluoride Analyzer:
      - a. Manufacturers
        - i. Rosemount
        - ii. Foxcroft
        - iii. Or approved equal
      - b. Fabrication
        - i. Accuracy:  $\pm 10\%$  or  $\pm 0.1$  PPM
        - ii. Response Time: 5 minutes or less for 90% step change
        - iii. Display: Backlit liquid crystal display (LCD), fluorescent, or light emitting diode (LED)
        - iv. Calibration: 2-point, automatic calibration, with option of manual initiation.

- v. Operating Temperature Range: 32° F to 105° F
  - vi. Power Supply: 120 VAC
  - vii. Output Signal: 4-20 mA
- c. Design
- i. Fluoride Analyzer shall be reagent-less emersion type flow through sensor.
  - ii. Shall consist of a transmitter, fluoride sensor, flow cells, and a flow controller that are mounted on a back plate. Sensor cables shall be pre-wired to the transmitter which shall be capable of two-point calibration. The transmitter shall have a data logger that automatically stores data every thirty seconds for thirty days with older data being discarded to make room for newer data.
  - iii. The fluoride sensor shall be combination ion selective electrode and fitted with an RTD to allow continuous correction for changes in temperature.”
15. **Pages 1515, Section 40 91 00, Analytical Instruments.** Part 3.3 B. Turbidity Analyzer, REPLACE “*Turbidity Analyzer*” with “Turbidity and Fluoride Analyzer”.
16. **Page 1518, Section 40 91 00 – Analytical Instruments.** Part 3.6 Schedule D. Fluoride Analyzer and E. Weight Transmitters were revised, REPLACE Page 1518 with the attached page (1 page).
17. **Page 1525-1527, Section 40 91 01 – Pressure Measurement.** Part 4 - Schedule A. Pressure Transmitter, B. Pressure Switches, and C. Pressure Indicator were revised, REPLACE Pages 1525-1527 with the attached pages (4 pages).
18. **Page 1540-1544, Section 40 91 02.02 – Level Measurement.** Part 3.8 - Schedule A. Float Switch, C. Ultrasonic Level Transmitter, and E. Submersible Level Sensor Transmitter were revised, REPLACE Pages 1525-1527 with the attached pages (5 pages).
19. **Page 1549, Section 40 91 03.04 – Flow Measurement.** Part 2.1 B. Velocity Averaging Pitot Type Flow Sensor and Transmitter, REPLACE entire section with the following:

**“ B. Thermal Mass Flowmeter**

1. Features.

- 1) Insertion type thermal dispersion flowmeter.
- 2) 1-inch NPT process connection.
- 3) Wall mounted, NEMA 4X solid state transmitter.
- 4) Local digital flow rate display and totalizer with LCD display at transmitter.
- 5) Saddle type process pipe mounting.
- 6) Field adjustable insertion length

2. Accessories.

- 1) Interconnecting cable between sensor and transmitter with sufficient length.
- 2) Factory calibration.
- 3) Stainless steel tag.

3. Materials.

- 1) Process Wetted Parts. Stainless Steel Type 316.
- 2) Service Saddle. Galvanized malleable iron body with forged steel strap, cadmium plated bolts, and neoprene gasket.

4. Sizes and Ratings.

- 1) Accuracy. 1 percent of full scale of velocity.
- 2) Repeatability. 0.5 percent of reading
- 3) Signal Output. 4-20 mA.
- 4) Sensor Operating Temperature. -40° F to 248° F
  - a) Transmitter Electronics Operating Temperature. 0° F to 150° F
  - b) Operating Pressure. 8 pounds per square inch gauge (psig) at 120° F. in air.
- 5) Flow Element Range. 2.0 to 200 fps at standard conditions.
- 6) Power Input. 115 Vac, 60 Hz
- 7) Operating Temperatures.
  - a) Sensor Element. 32 to 250o F.
  - b) Electrical Housing. 32 to 150o F.
- 8) Calibration. Factory calibrated at specified flow range and process conditions as listed in schedule at the end of this section.
- 9) Turndown Ratio. 10:1 to 100:1.
- 10) Insertion Length. Tip of probe to extend 1-inch past centerline of pipe.
- 11) Sizes and flow range as specified in the schedule at the end of this section.

5. Manufacturer. Subject to compliance with these specifications, provide mass flowmeter manufactured by one of the following:

- 1) Fluid Components, Inc.
- 2) Intek, Incorporated, Rheotherm Division.
- 3) Kurz 454 FTB.
- 4) Magnetrol.
- 5) ABB.”

20. **Page 1553-1554, Section 40 91 03.04 – Flow Measurement.** Part 4 - Schedule A. Magnetic Flow Element and Transmitter and B. Thermal Mass Flow Meter (Previously Velocity Averaging Pilot Type Flow Sensor and Transmitters) were revised, REPLACE Pages 1153-1554 with the attached pages (3 pages).
21. **Page 1563-1568, Section 40 91 05 – Temperature Measurement.** DELETE entire section in its entirety. All new temperature sensors shall be furnished by suppliers or the existing motor RTDs are being reused or provided by motor supplier.
22. **Page 1638, Section 40 95 33, SCADA.**
  - Part 3.4 A. DELETE “Under Contract E – Electrical and I&C, the Electrical”.
  - Part 3.4 A at the end of the paragraph, ADD “Bid Item 32 - Allowance 13 is included on the Bid Form for Additional Programming Services. All work shall be authorized in advance and any unused allowance will be deducted from the total amount of the Contract at the completion of the project.”
  - Part 3.4 B. DELETE “Under Contract E – Electrical and I&C, the Electrical”.

23. **Page 1654, Section 41 22 23.13 – Bridge Cranes.**
- Part 2.2 B. 20. In the second sentence, REPLACE “...a maximum static load of 3,000 pounds, including impact allowance...” with “...a maximum static bridge wheel load of 7,500 pounds not including impact allowance,...”.
24. **Page 1655, Section 41 22 23.13 – Bridge Cranes.**
- Part 2.3 B. Trolley Speed Control. In Paragraph 2, REPLACE “30 feet per minute (fpm)” with “10-100 feet per minute (fpm)”.
25. **Page 1660, Section 41 22 23.13 – Bridge Cranes.** Part 4. Equipment Schedule. ADD the following to the table.

Description	Specification
“Crane Trolley Speed”	“Variable: 10-100 fpm”

26. **Page 1725 and 1733, Section 44 43 50.03 – Filter Equipment.** Part 1.2 B 4 and Part 3.1 B. 6. refers to a Filter Repair Allowance. At the end of these paragraphs, ADD the following “Repairs shall be made on a time and materials basis per Part 1.2 B.4. Bid Item No. 29, Allowance 10 - Additional Processing Piping and Valve shall be used.”

#### APPENDIX D: DRAWINGS

27. **Sheet WC-4 – Well #4 Civil Site Plan.** Well #4 New Site Plan Note, DELETE “Note Contractor shall furnish two (2) Carbon Steel...with the Engineer/Owner.” See note on WP-4.
28. **Sheet WC-15 – New Raw Water Main Civil Jack and Bore Details.** DELETE Horizontal Directional Drill Notes; Jack and Boring shall be used.
29. **Sheet WP-4 – Wellfield Ex Well #1-7 Renovation Plan-Section-Elevation.** For the 3<sup>rd</sup> note on bottom right corner of sheet, ADD the following: “This includes a total of 5 pieces to be stored at a location on-site selected by the Owner: 1- 8”x5” Storz flange assembly with 1- 5”x2 ½” male NPT adaptor; 1- 8”x5” Storz flange assembly with 1-5”x2/1/2” female NPT adaptor; and 1 – 2 ½” female x 1 ½ male adaptor.”
30. **Sheet D-24, Main Building Demolition HSP Room Enlarged Plan.** ADD General Note 1. “1. Existing 6-ton bridge crane, hoist, trolleys, and crane rails shall be removed and disposed of by Contractor. Existing steel crane runway beams shall be reused. New Overhead Door 102 will be constructed to provide access for removal and installation of new bridge crane.”
31. **Sheet P-13, Main & Filter Bldg Process Filter Pipe Gallery Basement Plan.**
- In Filter Gallery at Elevation 967.25, in the south wall at the location where the 6” PVC storm drain leaves the building, ADD arrow and symbol for Coded Note 27.
  - ADD Coded Note 27, “27. Core drill and double mechanical seal 6” PVC storm at south wall of Filter Gallery and install 6”x10” increaser to connect to 10” HDPE storm sewer shown on Sheet C-6.”
  - At the west end of the Washwater Header there is a valve and BF shown, ADD arrow and symbol for Coded Note 28.
  - ADD Coded Note 28, “28. Install new 8” steel Blind Flange (BF) on existing Filter-To-Waste valve (typical for 6).”

- Above Coded Note 25, there is a 90 degree bend shown after the existing Filter-To-Waste valve for Filter 6. The existing bend shall be removed, and a new Blind Flange installed per coded note 28. REPLACE image of 90 degree bend with BF symbol and “BF” in bold.
  
- 32. **Sheet P-15, Main & Filter Bldg Process Filter Pipe Gallery Intermediate Plan.** Coded note 12 is not depicted on the Filter Gallery at El. 978.50 Plan. Between column line 2b and 3b at the east end of the existing 18” backwash header show coded note 12 with arrow pointing to new 18”x16” reducer and 45 degree elbow.
  
- 33. **Sheet P-16, Main & Filter Bldg Process Filter Pipe Gallery Upper Plan.** Coded note 22 is not depicted on the Filter Gallery at El. 978.50 Plan. Between column line 2b and 3b at the east end of the existing 18” backwash header ADD coded note 22 with arrow pointing to new 18”x16” reducer and 45 degree elbow.
  
- 34. **Sheet P-19, Main & Filter Bldg Process Filter Pipe Gallery Sections.**
  - In Coded Note 14 and Coded Note 15 for the wash water piping being replaced, REPLACE “24” ” with “20” ”.
  - In Section 10/P-13, at valve BFV 408, ADD arrow and symbol for Coded Note 33.
  - ADD Coded Note 33, “33. For BFV 408 (30”) provide an extended bonnet so that handwheel clears top of wall at El. 988.67.”
  
- 35. **Sheet P-20, Filter Building Process Filter Pipe Gallery Section.**
  - DELETE FTW Valve 404 shown in Section 13/P-13. FTW Valve 404 is shown in the wrong location on Sheet P-20, FTW Valve 404 is located in the horizontal run as shown on Sheet P-15 and Sheet P-19.
  - In Section 13/P-13, DELETE Valve 404. The valve is shown correctly on Sheet P-19.
  
- 36. **Sheet P-26, Main Building Process High Service Pump Rm Plan.**
  - On the new Washwater Pump discharge piping after the check valve, ADD arrow and “PIT-759.”
  
- 37. **Sheet P-27, Main Building Process High Service Pump Rm Sections.**
  - In Section 18 on the HSP #1 on the discharge piping after the 45-degree bend, ADD arrow and “PIT-781.”
  - In Section 19 on the HSP #2 on the discharge piping after the 45-degree bend, ADD arrow and “PIT-782.”
  - In Section 20 on the HSP #3 on the discharge piping after the 45-degree bend, ADD arrow and “PIT-783.”
  - In Section 18, 19 and 20, at Bridge Crane Hoist, BOLD symbols for new bridge crane, hoist, trolley, and crane rails.
  - In Section 18, 19 and 20, at Bridge Crane Hoist, ADD arrow and symbol for Coded Note 1.
  - ADD Coded Note 1, “1. New 6 ton bridge crane, hoist, ASCE crane rail, runway, and hoist/trolley festooning system shall be installed on existing steel crane runway beams per Section 41 22 23.13. Contractor shall coordinate with Bridge Crane supplier to furnish and install runway electrification, control panel, controls, and connect to local disconnect fed from power distribution panel for the new Bridge Crane as described in Section 41 22 23.13. New Overhead Door 102 will be constructed to provide access for removal and installation of new bridge crane.”

38. **Sheet P-28, Main Building Process HSP Rm & Filter Gallery Annex Sections.**
- In Section 21 on the HSP #4 on the discharge piping after the 45-degree bend, ADD arrow and “PIT-784.”
  - In Section 22 on the HSP #5 on the discharge piping after the 45-degree bend, ADD arrow and “PIT-785.”
  - In Section 26 on 4” piping headers note 4” Mag Meter Typ of 2, ADD “FIT-705 and FIT-706”
  - For Coded Note 1, REPLACE “*New 6 ton bridge and hoist*” with “New 6 ton bridge crane, hoist, ASCE crane rail, runway, and hoist/trolley festooning system.”
  - For Coded Note 2, ADD “(Typ at Column Line 1A and 2A)”.
  - In Section 21, 22 and 23, at Bridge Crane Hoist, BOLD symbols for new bridge crane, hoist, trolley, and crane rails.
  - In Section 21, MOVE arrow for Coded Note 2 from runway to ASCE crane rail.
  - In Section 22, for the coded note pointing to the crane rail, REPLACE Coded Note “3” with “2”.
  - In Section 21 and 23, at crane rail on column line 2A ADD arrow and symbol for Coded Note 2.
39. **Sheet P-34, Chlorine Building Process Schematics.** REPLACE with the attached P-34. Revisions were made the Chlorination Schematic. Piping from the chlorine cylinders to the evaporators has been revised.
40. **Sheet P-35 – Fluoride Building Process Plan – Sections.** Fluoride Room Plan. In the concrete sidewalk adjacent to the west exterior wall of the Fluoride Building, REPLACE symbol for floor drain with symbol for inlet basin and REPLACE “FD” with “IB”. This is correctly shown on Sheet C-6 and C-16.
41. **Sheet A-16, Main & Filter Bldg Architectural First Floor Plan.**
- For New Work Notes 12, REPLACE “*See Structural Drawings...*” with “See S-13 for structural framing and bracing for new overhead door.”
  - For New Work Notes 13, REPLACE “*Brick and CMU Infill at New Wall Opening*” with “Not used.”
  - At 12’ wide Overhead Door 102 A, REMOVE symbol for new 2’ wide masonry on each side of new door. See S-13 for details.
42. **Sheet A-22, Main & Filter Building Architectural Roof Details.** REPLACE with the attached A-22.
43. **Sheet S-12, Main Building Structural HSP Room Plan.**
- At 12’ wide Overhead Door 102 A, REMOVE symbol for construction joints shown 2’ from each side of new door. No new masonry infill is required.
44. **Sheet PL-8 – Filter Building First Floor Plan Plumbing.** For Coded Note 26 ADD the following: “Replace existing sump discharge piping and reconnect to wash water drain line including all piping, valves, fittings, and supports as required. For Sump Pump in the North Piping Gallery, assume approximately 50’ of piping. For Sump Pump in the South Piping Gallery, assume approximately 20’ of piping.”



45. **Sheet PL-11 – Filter Building Enlarged First Floor Plan Plumbing.** Drawing shows two new eye wash/showers in the wrong locations. Locations shall be as shown on Sheet E-61. On the west wall, there shall be one ESHR inside the Fluoride Storage Room and one on the exterior wall. RELOCATE symbols and coded notes 10 and 12 for ESHR to locations as shown on E-61.
46. **Sheet E-6 – Overall Site Plan Duct Bank Schedule.**
- Under Electrical Duct Bank Schedule, Ductbank Section No.L/E-6, Under Function column REPLACE “MCC-A” with “transformer TR 2”.
  - Under Detail 1/E-6 – Typical Electrical Trending Detail, ADD the following note: “Concrete encasement shall be required for underground conduits under the pavement or roads as shown. In lieu of 3” of concrete all around conduits, 3” sand all around the conduits may be used under the cross-country locations. See Detail 2/E-6”
47. **Sheet E-53 – High Service Pump Rm Electrical Renovation Power Plan.**
- In Southwest corner of High Service Pump Room, ADD arrow and symbol for Coded Note 32.
  - ADD Coded Note 32, “32. The existing bridge crane disconnect switch and associated wiring shall be removed. Provide a new 600V, 30A/3P, NEMA 12 disconnect switch for the new bridge crane. Provide 3/4” conduit with 3 #12, 1#12G wiring for the new crane power from the new 480V panel L1. Utilize the spare 20A/3P branch breaker as required.
  - In Filter Gallery Annex Room 101 on north wall next to AIT-707, ADD Coded Note 33.
  - ADD Coded Note 33, “33. AIT-707A: Fluoride Analyzer shall be installed adjacent to AIT-707: Chlorine Analyzer. Utilize the AIT-707, 120VAC circuit (P3-19) to power the adjacent AIT-707A fluoride analyzer. Provide an additional 2/c #18 sh. Pr. from AIT-707A to PLC-7 in the same conduit as the AIT-707 signal wiring”.
  - In Filter Gallery Annex Room 101 for the FIT-xxx to P3-13 REPLACE “FIT” with “FIT-705”.
  - In Filter Gallery Annex Room 101 next to FIT-xxx (705) to P3-13 ADD symbol for “FIT-706”.
  - In Filter Gallery Annex Room 101 on the 8” air scour header REPLACE “PIT-xxx” with “PIT-763”.
  - In Filter Gallery Annex Room 101 on the 8” air scour header next to PIT-xxx (763) REPLACE “FIT-xxx” with “FE/FIT-762”.
48. **Sheet E-55 – High Service Pump Rm Electrical Renovation Power Plan.**
- In Filter Piping Gallery next to door opening to Filter 5/6, ADD arrow and symbol for Coded Note 22.
  - ADD Coded Note 22, “22. AIT-521: Clearwell 3B shall be mounted in Filter Piping Gallery. Provide ¾” conduit with 2 #12 1 #12G (120VAC power) from 208/120V panel “A”, utilizing a 15A/1P branch breaker for the AIT-521 (to be located just south of panel “L”). Provide ¾” conduit with 2/c #18 sh. Pr. from AIT-521 to PLC- 5.”
49. **Sheet E-57 – Filter Gallery Electrical Renovation Power Plan EL 975.**
- In Filter Piping Gallery next to door opening to Filter 5/6, ADD symbol for “AIT-521”.
  - At the two Simplex Pump Control Panels homerun being wired back to DP3-8 and 10, ADD arrow and symbol for Coded Note 33.
  - ADD Coded Note 33, “33. For the two Simplex Pump Control Panels being wired back to DP3-8 and 10, utilize the Spare 20A/1P branch breakers, DP3-8 & DP3-10, each with ¾” conduit, 2 #12, 1 #12G for each simplex pump panel.”

50. **Sheet E-63 – Garage Electrical Renovation Power Plan.** Keynote 3, ADD the following:  
“Provide 1" conduit with CAT 6e cable between the new security camera in the garage and the new PLC-8 in the east aerator building. Both the Garage and the East Aerator Building cameras shall utilize the PLC-8 fiber optic cable as a link to the security system panel located in the control room.”
51. **Sheet E-67 – East Aerator Bldg Electrical Renovation Upper – Lower Power Plan.**
  - East Aerator Building Upper Renovation Power Plan, for LT-811 ADD symbol for Keynote 1.
  - East Aerator Building Lower Renovation Power Plan, for the ductbank to the East Raw Water Meter Vault REPLACE “L” with “I”. The ductbank schedule for the East Aerator Building is shown on the duct bank schedule, Section I/E-6, conduits A, B, C and D.
52. **Sheet E-69 – West Aerator Bldg Electrical Renovation Power Plan.**
  - West Aerator Building Upper Renovation Power Plan, at LT-911 and at LT-912 ADD symbol for Keynote 3.
  - Keynotes 1 and 2, REPLACE “PLC-8” with “PLC-9”.
53. **Sheet E-70 – West Aerator Bldg Electrical Renovation Lighting Plan.** West Aerator Building Lower Renovation Lighting Plan, for the ductbank to the West Raw Water Meter Vault REPLACE “K” with “J”.
54. **Sheet I-16 – Backwash and Finished Water Distribution Pumps P&ID.** In the Backwash Reservoir DELETE symbols for LIT-517 and LE-517.
55. **Sheet I-17 – Clearwell No. 3 Chlorine Contract Tank 1 and 2 P&ID.**
  - In the Fluoridation Chamber for the Fluoride Analyzer, REPLACE “AE/AIT-746” with “AE/AIT-709”
  - In Clearwell 3B for the Chlorine Residual Analyzer, REPLACE “AE/AIT-516” with “AE/AIT-521”
56. **Sheet I-19 – Process and Instrumentation High Service Pump P&ID.**
  - The 4” mag meter to the chemical feed systems, REPLACE “FE-524” with “FE-705”
  - The 4” mag meter to plant water system, REPLACE “FE-523” with “FE-706”.
  - On the 30” Finished Water Header for the Chlorine Residual Analyzer, REPLACE “AE/AIT-xxx” with “AE/AIT-707”
  - On the 30” Finished Water Header for the Fluoride Analyzer, REPLACE “AE/AIT-xxx” with “AE/AIT-707A”
  - For AE/AIT-707 and AE/AIT-707A, ADD symbols for analog input and HMI display.
  - REPLACE “FIT/FE 706” with “FIT/FE 708”

## GENERAL CLARIFICATIONS

57. **Appendix.** On May 24, 2022, the City had all Wellfield 1-10 transformers tested for PCB. The test results will be shared in an upcoming addendum.

58. **Page 220, Section 03 30 00 – Cast-in-Place Concrete.**
- Part 2.3.B 4, Class D Concrete is used for concrete floor topping or grout. There is no minimum required strength. There is a minimum cementitious content listed which must be adhered to. All structural concrete is Class A unless noted otherwise.
  - Part 2.3.B 6, There is no Class W concrete (with crystalline waterproofing admixture) required on this project.
59. **Page 1655, Section 41 22 23.13 – Bridge Cranes.**
- Part 2.2 F. Crane Runway Rails. Paragraph 4 references expansion joints; the High Service Pump Room does not have any building expansion joints, and therefore none are required for the crane runway rails.
60. **Sheet WC-16 -WC-24.** Where the existing PCCP is being replaced on the existing Raw Water Transmission Main, new PCCP shall be used as shown on the Wellfield drawings.
61. **Sheet C-16 – WTP Civil Proposed Yard Piping Plan.** For Coded Note 39, the tapping sleeve and valve shall be finished and installed by the Contractor.
62. **Sheet S-1 – Aerator Buildings Structural Roof Plans.** Under Note 4, ADD the following: “The existing east and west aerator roofs are 6” thick hollowcore planks. As required these shall be replaced with 6” thick units as manufactured by Mid South Prestress LLC (MSP) T. 615-756-6606, StresCore Inc. T. 574-233-1117, or equal.”
63. **Sheet DC-1, Dechlorination Building Civil Yard Grading and Details.** City shall provide labor and materials to complete the tap on the 6” water and install the 1” water line to the curb box.
64. **Doghouse Manhole Detail.** Detail is on Sheet WC-26.
65. **Precast Oil Separator.** In the Maintenance Garage there is a precast concrete oil separator referenced on Page 48 of Section 01 14 00 – Work Restrictions Part 3.5 D. Paragraph 14. D. The oil separator is also called out on C-16. Additional information is included on Sheet PL-16 – Maintenance Garage Plumbing Plan. The precast concrete oil separator shall be Mack Industries Model E-10 (Catalog cutsheet is attached) which is a traffic bearing type oil separator or equal.
66. **Section 40 05 13 – Process Piping General.** Part 2.2 Joints, Paragraph A 3. Bolts, Unfinished A307B flange hardware is acceptable for use at exterior exposed flanged pipe joints (non-submerged). Pipe and hardware shall be coated per Section 09 90 00.
67. **Sheet I-16, I-17, I-18 and I-19.** Instruments LE/LIT-701C, LE/LIT-702C, and LE/LIT-703C are found on multiple sheets but there is only one Level Element and Transmitter for LE/LIT-701C, 702C, and 703C.

**C. CHLORINE RESIDUAL ANALYZER**

Tag No.	Location	Quantity	Notes
AIT/AE-521	Clearwell Chamber No. 3B	1	
AIT/AE-793	Chlorine Contact Tank No. 1 (North)	1	
AIT/AE-794	Chlorine Contact Tank No. 2 (South)	1	
AIT/AE-707	Finished Water Discharge Header	1	

**D. FLUORIDE ANALYZER**

Tag No.	Location	Quantity	Notes
AIT/AE-421 721	Chlorination Chamber	1	
AIT/AE 707A	Finished Water Discharge Header	1	

**[Addendum No. 3]**

**E. WEIGHT TRANSMITTERS**

Tag No.	Location	Quantity	Notes
WIT-1003	Day Tank for Fluoride Building	1	See Section 46 33 01 – Liquid Chemical Feed Equipment 2.2 B Scales.
WIT-1030	Chlorine 1-Ton Containers	<del>10</del>	<del>Remove and replace</del> Reconnect to existing transmitters.
WIT- <del>1040</del> 1031	Chlorine 1-Ton Containers	<del>10</del>	<del>Remove and replace</del> Reconnect to existing transmitters.

**[Addendum No. 3]**

END OF SECTION

- D. Recording.** Each pressure sensor being demonstrated by the Contractor shall be individually recorded on a 24 hour paper chart with minimum 4 inches of scale length. Discrete sensors shall be temporarily connected to provide a recording showing "on-off" changes in the sensor. Recording meters shall be certified accurate, demonstrated accurate, and provided by the Contractor for testing of the provided pressure sensors.

**PART 4 - SCHEDULE**

**A. PRESSURE TRANSMITTER**

Tag No.	Location	Quantity	Range (PSI)	Notes
PIT/PI-R103	Wellfield Pump #1	1	5-150	Discharge Piping
PIT/PI-R203	Wellfield Pump #2	1	5-150	Discharge Piping
PIT/PI-R303	Wellfield Pump #3	1	5-150	Discharge Piping
PIT/PI-R403	Wellfield Pump #4	1	5-150	Discharge Piping
PIT/PI-R503	Wellfield Pump #5	1	5-150	Discharge Piping
PIT/PI-R603	Wellfield Pump #6	1	5-150	Discharge Piping
PIT/PI-R703	Wellfield Pump #7	1	5-150	Discharge Piping
PIT/PI-R803	Wellfield Pump #8	1	5-150	Discharge Piping
PIT/PI-R903	Wellfield Pump #9	1	5-150	Discharge Piping
PIT/PI-R1003	Wellfield Pump #10	1	5-150	Discharge Piping
PIT/PE-538	Filter Air Scour Blower			
PIT-520	Finished Water Surge Relief Vault	1	5-150	Discharge Piping
PIT-710A	Backwash Pump	1	5-150	Discharge Piping
PIT-759	Backwash Pump	1	5-150	Discharge Piping
PIT-718	High Service Pump #1	1	5-150	Discharge Piping
PIT-728	High Service Pump #2	1	5-150	Discharge Piping
PIT-738	High Service Pump #3	1	5-150	Discharge Piping
PIT-748	High Service Pump #4	1	5-150	Discharge Piping
PIT-758	High Service Pump #5	1	5-150	Discharge Piping
PIT-706	High Service Pump Finished Water Discharge Header	1	5-150	Discharge Piping
PIT107A	Filter #1A	1	1-50	
PIT107B	Filter #1B	1	1-50	
PIT207A	Filter #2A	1	1-50	
PIT207B	Filter #2B	1	1-50	
PIT307A	Filter #3A	1	1-50	
PIT307B	Filter #3B	1	1-50	
PIT407A	Filter #4A	1	1-50	
PIT407B	Filter #4B	1	1-50	
PIT-507A	Filter #5A	1	1-50	
PIT-507B	Filter #5B	1	1-50	
PI-529	Filter Air Scour Blower #1	1	1-50	Vendor Supplied

PIT-736	Air Scour Blower #2	1	1-10	Vendor Supplied
PIT-423	Makeup Water Supply from Reservoir	1	1-50	
PI-535	Filter Air Scour Blower #2	1	1-50	Vendor Supplied
PIT-607A	Filter #6A	1	1-50	
PIT-607B	Filter #6B	1	1-50	
PIT-781	High Service Pump Discharge #1	1	1-150	
PIT-782	High Service Pump Discharge #2	1	1-150	
PIT-783	High Service Pump Discharge #3	1	1-150	
PIT-784	High Service Pump Discharge #4	1	1-150	
PIT-785	High Service Pump Discharge #5	1	1-150	
PIT-614	Filter to Waste Pump	1	1-150	

**Addendum No. 3]**

**B. PRESSURE SWITCHES**

Tag No.	Location	Quantity	Range (PSI)	Notes
PSH-528	Filter Air Scour Blower #1	1	0-15	Vendor Supplied
PSH-534	Filter Air Scour Blower #2	1	0-15	Vendor Supplied
PSL-781	High Service Pump #1	1	5-150	
PSH-781	High Service Pump #1	1	5-150	
PSL-782	High Service Pump #2	1	5-150	
PSH-782	High Service Pump #2	1	5-150	
PSL-783	High Service Pump #3	1	5-150	
PSH-783	High Service Pump #3	1	5-150	
PSL-784	High Service Pump #4	1	5-150	
PSH-784	High Service Pump #4	1	5-150	
PSL-785	High Service Pump #5	1	5-150	
PSH-785	High Service Pump #5	1	5-150	
PSL-115A1	Filter #1A	1	1-50	
PSL-115A2	Filter #1A	1	1-50	
PSL-115A3	Filter #1A	1	1-50	
PSL-115A4	Filter #1A	1	1-50	
PSL-115B1	Filter #1B	1	1-50	
PSL-115B2	Filter #1B	1	1-50	
PSL-115B3	Filter #1B	1	1-50	
PSL-115B4	Filter #1B	1	1-50	

PSL-215A1	Filter #2A	1	1-50	
PSL-215A2	Filter #2A	1	1-50	
PSL-215A3	Filter #2A	1	1-50	
PSL-215A4	Filter #2A	1	1-50	
PSL-215B1	Filter #2B	1	1-50	
PSL-215B2	Filter #2B	1	1-50	
PSL-215B3	Filter #2B	1	1-50	
PSL-215B4	Filter #2B	1	1-50	
PSL-315A1	Filter #3A	1	1-50	
PSL-315A2	Filter #3A	1	1-50	
PSL-315A3	Filter #3A	1	1-50	
PSL-315A4	Filter #3A	1	1-50	
PSL-315B1	Filter #3B	1	1-50	
PSL-315B2	Filter #3B	1	1-50	
PSL-315B3	Filter #3B	1	1-50	
PSL-315B4	Filter #3B	1	1-50	
PSL-415A1	Filter #4A	1	1-50	
PSL-415A2	Filter #4A	1	1-50	
PSL-415A3	Filter #4A	1	1-50	
PSL-415A4	Filter #4A	1	1-50	
PSL-415B1	Filter #4B	1	1-50	
PSL-415B2	Filter #4B	1	1-50	
PSL-415B3	Filter #4B	1	1-50	
PSL-415B4	Filter #4B	1	1-50	
PSL-515A1	Filter #5A	1	1-50	
PSL-515A2	Filter #5A	1	1-50	
PSL-515A3	Filter #5A	1	1-50	
PSL-515A4	Filter #5A	1	1-50	
PSL-515B1	Filter #5B	1	1-50	
PSL-515B2	Filter #5B	1	1-50	
PSL-515B3	Filter #5B	1	1-50	
PSL-515B4	Filter #5B	1	1-50	
<del>PSH-611</del>	<del>Filter to Waste Pump</del>	<del>1</del>	<del>1-50</del>	
PSL-615A1	Filter #6A	1	1-50	
PSL-615A2	Filter #6A	1	1-50	
PSL-615A3	Filter #6A	1	1-50	
PSL-615A4	Filter #6A	1	1-50	
PSL-615B1	Filter #6B	1	1-50	
PSL-615B2	Filter #6B	1	1-50	
PSL-615B3	Filter #6B	1	1-50	
PSL-615B4	Filter #6B	1	1-50	
PSL-1032	Chlorine 1-Ton Cylinder	1	1-50	Vendor Supplied
PSL-1042	Chlorine 1-Ton Cylinder	1	1-50	Vendor Supplied
PSL-1033				

**Addendum No. 3]**

**C. PRESSURE INDICATOR**

<b>Tag No.</b>	<b>Location</b>	<b>Quantity</b>	<b>Range (PSI)</b>	<b>Notes</b>
PI-529	Filter Air Scour Blower #1	1	0-15	Vendor Supplied
PI-535	Filter Air Scour Blower #2	1	0-15	Vendor Supplied

**Addendum No. 3]**

END OF SECTION



**A. FLOAT SWITCH**

Tag No.	Description	Process	Probe Mounting
LSH-112A	Filter 1-4 Flume High Level	Aerated Water	XXX
LSL-112B	Filter 1-4 Flume Low Level	Aerated Water	XXX
LSH-806	East Aerator Bldg Meter Vault High Level	Raw Water	XXX
LSH-XXX 906	West Aerator Bldg Meter Vault High Level	Raw Water	XXX
LSH-425	Influent Distribution Box (Water Influent) Filter 1-4	Aerated Water	XXX
LSH515 422	Influent Distribution Box (Overflow) Filter 5-6	Aerated Water / Filter-to-Waste	XXX
LSL-514A	Filter 5-6 Flume Low Level	Aerated Water	XXX
LSH-514B	Filter 5-6 Flume High Level	Aerated Water	XXX
LSL-520A	Filter Gallery Sump Low Level	Sump	XXX
LSH-520B	Filter Gallery Sump High Level	Sump	XXX
LSL-701A	Pump Chamber No. 1 (South) Clearwell Low Level	Finished Water	XXX
LSH-701B	Pump Chamber No. 1 (South) Clearwell High Level	Finished Water	XXX
LSL-702A	Pump Chamber No. 2 (North) Clearwell Low Level	Finished Water	XXX
LSH-702B	Pump Chamber No. 2 (North) Clearwell High Level	Finished Water	XXX
LSH-1004	Pumpout Sump High Level	Fluorsilicic Acid / Storm	XXX
FS-1005	Chlorine Eyewash Alarm	Finished Water	XXX
FS-1006	Fluoride Eyewash	Finished Water	XXX
LSH-1007	Containment Sump High Level	Fluorsilicic Acid	XXX

**Addendum No. 3]**

**B. ELECTRODE LEVEL SWITCH**

Tag No.	Location	Mounting	Range (Depth of Well to Floor)	Depth from Bottom Well to Max Water Level

**C. ULTRASONIC LEVEL TRANSMITTER**

Tag No.	Location	Mounting	Range (Depth of Well to Floor)	Depth from Bottom Well to Max Water Level
<del>LT/LE-R101</del>	<del>Wellfield Pump #1 Level Transmitter</del>	<del>XXX</del>	<del>XXX</del>	<del>XXX</del>
<del>LT/LE-R201</del>	<del>Wellfield Pump #2 Level Transmitter</del>	<del>XXX</del>	<del>XXX</del>	<del>XXX</del>
<del>LT/LE-R302</del>	<del>Wellfield Pump #3 Level Transmitter</del>	<del>XXX</del>	<del>XXX</del>	<del>XXX</del>
<del>LT/LE-R401</del>	<del>Wellfield Pump #4 Level Transmitter</del>	<del>XXX</del>	<del>XXX</del>	<del>XXX</del>
<del>LT/LE-R501</del>	<del>Wellfield Pump #5 Level Transmitter</del>	<del>XXX</del>	<del>XXX</del>	<del>XXX</del>
<del>LT/LE-R601</del>	<del>Wellfield Pump #6 Level Transmitter</del>	<del>XXX</del>	<del>XXX</del>	<del>XXX</del>
<del>LT/LE-R701</del>	<del>Wellfield Pump #7 Level Transmitter</del>	<del>XXX</del>	<del>XXX</del>	<del>XXX</del>

LT/LE-R801	Wellfield Pump #8 Level Transmitter	XXX	XXX	XXX
LT/LE-R901	Wellfield Pump #9 Level Transmitter	XXX	XXX	XXX
LT/LE-R1001	Wellfield Pump #10 Level Transmitter	XXX	XXX	XXX
LIT-424	Influent Distribution Box (Water Influent)	XXX	5.0	3.5
LIT 514 420	Influent Distribution Box (Overflow)	XXX	5.0	3.5
LIT/LE-811	East Aerator Clearwell Level Indicator Transmitter	XXX	18.5	16.0
LIT-911	West Aerator South Clearwell Level Indicator Transmitter	XXX	18.0	16.0
LIT-912	West Aerator North Clearwell Level Indicator Transmitter	XXX	18.0	16.0
LT/LE-1001	Fluoride Tank #1 Level Transmitter (Provide 4 wire transmitter with remote signal converter)	XXX	12.0	11.0
LT/LE-1002	Fluoride Tank #2 Level Transmitter (Provide 4 wire transmitter with remote signal converter)	XXX	12.0	11.0
LIT/LE-701C	Pump Chamber No. 1 (South) Clearwell Level Indicator Transmitter	XXX	25.0	22.5
LIT/LE-702C	Pump Chamber No. 2 (North) Clearwell Level Indicator Transmitter	XXX	25.0	22.5
LIT/LE-703	Chlorination Chamber Level Indicator Transmitter.	XXX	20.0	17.5
LE-517	Backwash Reservoir Level Element	XXX	XXX	XXX
LT-112	Filter 1-4 Flume Level Transmitter	XXX	XXX	XXX
LT-514	Filter 5-6 Flume Level Transmitter	XXX	XXX	XXX
LT-110A	Filter #1A Level Transmitter	XXX	11.25	9.25
LT-110B	Filter #1B Level Transmitter	XXX	11.25	9.25

LT-210A	Filter #2A Level Transmitter	XXX	11.25	9.25
LT-210B	Filter #2B Level Transmitter	XXX	11.25	9.25
LT-310A	Filter #3A Level Transmitter	XXX	11.25	9.25
LT-310B	Filter #3B Level Transmitter	XXX	11.25	9.25
LT-410A	Filter #4A Level Transmitter	XXX	11.25	9.25
LT-410B	Filter #4B Level Transmitter	XXX	11.25	9.25
LT-510A	Filter #5A Level Transmitter	XXX	11.25	9.25
LT-510B	Filter #5B Level Transmitter	XXX	11.25	9.25
LT-610A	Filter #6A Level Transmitter	XXX	11.25	9.25
LT-610B	Filter #6B Level Transmitter	XXX	11.25	9.25

**Addendum No. 3]**

**D. RADAR LEVEL TRANSMITTERS**

Tag No.	Location	Mounting	Range (Depth of Well to Floor)	Depth from Bottom Well to Max Water Level

**E. SUBMERSIBLE LEVEL SENSOR TRANSMITTER**

Tag No.	Location	Mounting	Range (Depth of Well to Floor)	Depth from Bottom Well to Max Water Level
LT/LE – R101	Wellfield Pump #1 Level Transmitter	EL 939.7	150'	140'
LT/LE-R201	Wellfield Pump #2 Level Transmitter	EL 939.7	150'	140'
LT/LE-R302	Wellfield Pump #3 Level Transmitter	EL 939.7	150'	140'
LT/LE-R401	Wellfield Pump #4 Level Transmitter	EL 939.7	150'	140'
LT/LE-R501	Wellfield Pump #5 Level Transmitter	EL 939.7	150'	140'
LT/LE-R601	Wellfield Pump #6 Level Transmitter	EL 939.7	150'	140'
LT/LE-R701	Wellfield Pump #7 Level Transmitter	EL 939.7	150'	140'
LT/LE-R801	Wellfield Pump #8 Level Transmitter	EL 942.33	250'	240'
LT/LE-R901	Wellfield Pump #9 Level Transmitter	EL 941.33	250'	240'
LT/LE-R1001	Wellfield Pump #10 Level Transmitter	EL 941.33	250'	240'
LIT/LE-811	East Aerator Clearwell Level Indicator Transmitter	XXX	18'	16'
LIT-911	West Aerator South Clearwell Level Indicator Transmitter	XXX	18'	16'
LIT-912	West Aerator North Clearwell Level Indicator Transmitter	XXX	18'	16'
LIT/LE-701C	Pump Chamber No. 1 (South) Clearwell Level Indicator Transmitter	XXX	25'	22.5'
LIT/LE-702C	Pump Chamber No. 2 (North) Clearwell Level Indicator Transmitter	XXX	25'	22.5'
LIT/LE-703	Chlorination Chamber Level Indicator Transmitter.	XXX	20'	17.5'

**Addendum No. 3**

END OF SECTION

**PART 4 - SCHEDULE**

**A. Magnetic Flow Element and Transmitter.**

<b>Tag No.</b>	<b>Size (inches)</b>	<b>Flow Range (gpm or as noted)</b>	<b>Process Fluid</b>	<b>Process Description</b>	<b>Pipe Material</b>	<b>Pipe Connections Required</b>	<b>Location</b>
FIT/FE -R102	12	10-3,500	Raw Water	Discharge Piping	DIP	Flanged	Wellfield Pump #1
FIT/FE -R202	12	10-3,500	Raw Water	Discharge Piping	DIP	Flanged	Wellfield Pump #2
FIT/FE -R302	12	10-3,500	Raw Water	Discharge Piping	DIP	Flanged	Wellfield Pump #3
FIT/FE -R402	12	10-3,500	Raw Water	Discharge Piping	DIP	Flanged	Wellfield Pump #4
FIT/FE -R502	12	10-3,500	Raw Water	Discharge Piping	DIP	Flanged	Wellfield Pump #5
FIT/FE -R602	12	10-3,500	Raw Water	Discharge Piping	DIP	Flanged	Wellfield Pump #6
FIT/FE -R702	12	10-3,500	Raw Water	Discharge Piping	DIP	Flanged	Wellfield Pump #7
FIT/FE -R802	12	10-3,500	Raw Water	Discharge Piping	DIP	Flanged	Wellfield Pump #8
FIT/FE -R902	12	10-3,500	Raw Water	Discharge Piping	DIP	Flanged	Wellfield Pump #9
FIT/FE -R1002	12	10-3,500	Raw Water	Discharge Piping	DIP	Flanged	Wellfield Pump #10
FIT/FE -810	24	10-9,000	Raw Water	Influent to East Aerator Bldg.	DIP	Flanged	East Aerator Building
FIT/FE -910	24	10-9,000	Raw Water	Influent to West Aerator Bldg.	DIP	Flanged	West Aerator Building
FIT/FE -127	8	2,000 scfm	Air	Blower System	SST	Flanged	Filter Scour Blower
FIT/FE -705	4	<del>10-9,000</del> 10-300	Finishe d Water	Water Supply to Chlorinators from Finish Water Header	DIP	Flanged	<del>Backwash and Recirculation Pumps-Filter Annex Rm 101 West Wall</del>
FIT/FE -706	<del>30</del> 4	<del>10-9,000</del> 10-300	Finishe d Water	<del>XXX Plant Water Supply from Finish Water Header</del>	<del>XXX</del> DIP	<del>XXX</del> Flanged	<del>Backwash and Recirculation Pumps Filter Annex Rm 101 West Wall</del>
FIT/FE -709 531	<del>XXX</del> 20	<del>XXX</del> 10-6000	<del>XXX</del> Finishe d Water	<del>XXX</del> Backwash water supply from makeup reservoir	<del>XXX</del> DIP	<del>XXX</del> Flanged	<del>Backwash and Recirculation Pumps-Filter Pipe Gallery</del>

Tag No.	Size (inches)	Flow Range (gpm or as noted)	Process Fluid	Process Description	Pipe Material	Pipe Connections Required	Location
FIT/FE-710	18	10-6,500	Finished Water	Water Supply to Washwater, Surface Wash, & Plant Water	DIP	Flanged	Backwash and Recirculation Pumps
FIT/FE-706 708	24	10-17,000	Finished Water	Water Supply to Distribution System	DIP	Flanged	High Service Discharge Header
FIT/FE-106A	10	5-3,000	Filtered Water	Filtered Water to Clearwells	DIP	Flanged	Filter #1A
FIT/FE-106B	10	5-3,000	Filtered Water	Filtered Water to Clearwells	DIP	Flanged	Filter #1B
FIT/FE-206A	10	5-3,000	Filtered Water	Filtered Water to Clearwells	DIP	Flanged	Filter #2A
FIT/FE-206B	10	5-3,000	Filtered Water	Filtered Water to Clearwells	DIP	Flanged	Filter #2B
FIT/FE-306A	10	5-3,000	Filtered Water	Filtered Water to Clearwells	DIP	Flanged	Filter #3A
FIT/FE-306B	10	5-3,000	Filtered Water	Filtered Water to Clearwells	DIP	Flanged	Filter #3B
FIT/FE-406A	10	5-3,000	Filtered Water	Filtered Water to Clearwells	DIP	Flanged	Filter #4A
FIT/FE-406B	10	5-3,000	Filtered Water	Filtered Water to Clearwells	DIP	Flanged	Filter #4B
FIT/FE-506A	10	5-3,000	Filtered Water	Filtered Water to Clearwells	DIP	Flanged	Filter #5A
FIT/FE-506B	10	5-3,000	Filtered Water	Filtered Water to Clearwells	DIP	Flanged	Filter #5B
FIT/FE-606A	10	5-3,000	Filtered Water	Filtered Water to Clearwells	DIP	Flanged	Filter #6A
FIT/FE-606B	10	5-3,000	Filtered Water	Filtered Water to Clearwells	DIP	Flanged	Filter #6B
FIT/FE-610 530	6	1-500	Filter-to-Waste	Filter-to-Waste Pump	DIP	Flanged	Filter-to-Waste Pump

**[Addendum No. 3]**

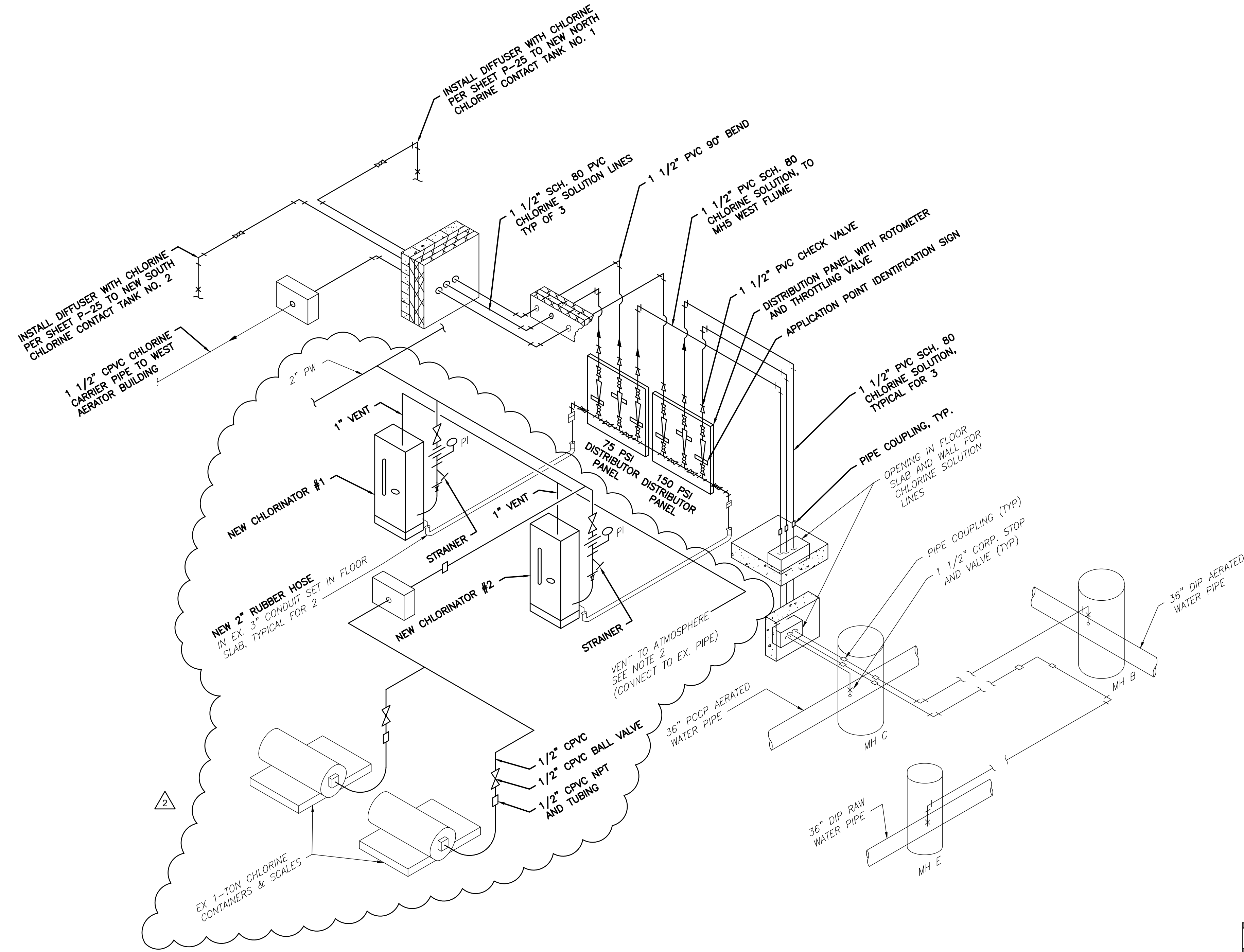
**B. ~~Velocity Averaging Pilot Type Flow Sensor and Transmitters~~  
Thermal Mass Flow Meter**

<b>Tag No.</b>	<b>Size (inches)</b>	<b>Flow Range (gpm) (CFM)</b>	<b>Process Fluid</b>	<b>Process Description</b>	<b>Pipe Material</b>	<b>Pipe Connections Required</b>	<b>Location</b>
FE/FIT 762	8	0-800	AIR	Air Scour Flow	SS Sch 10	1"NPT	Filter Gallery Annex Room 101

**[Addendum No. 3]**

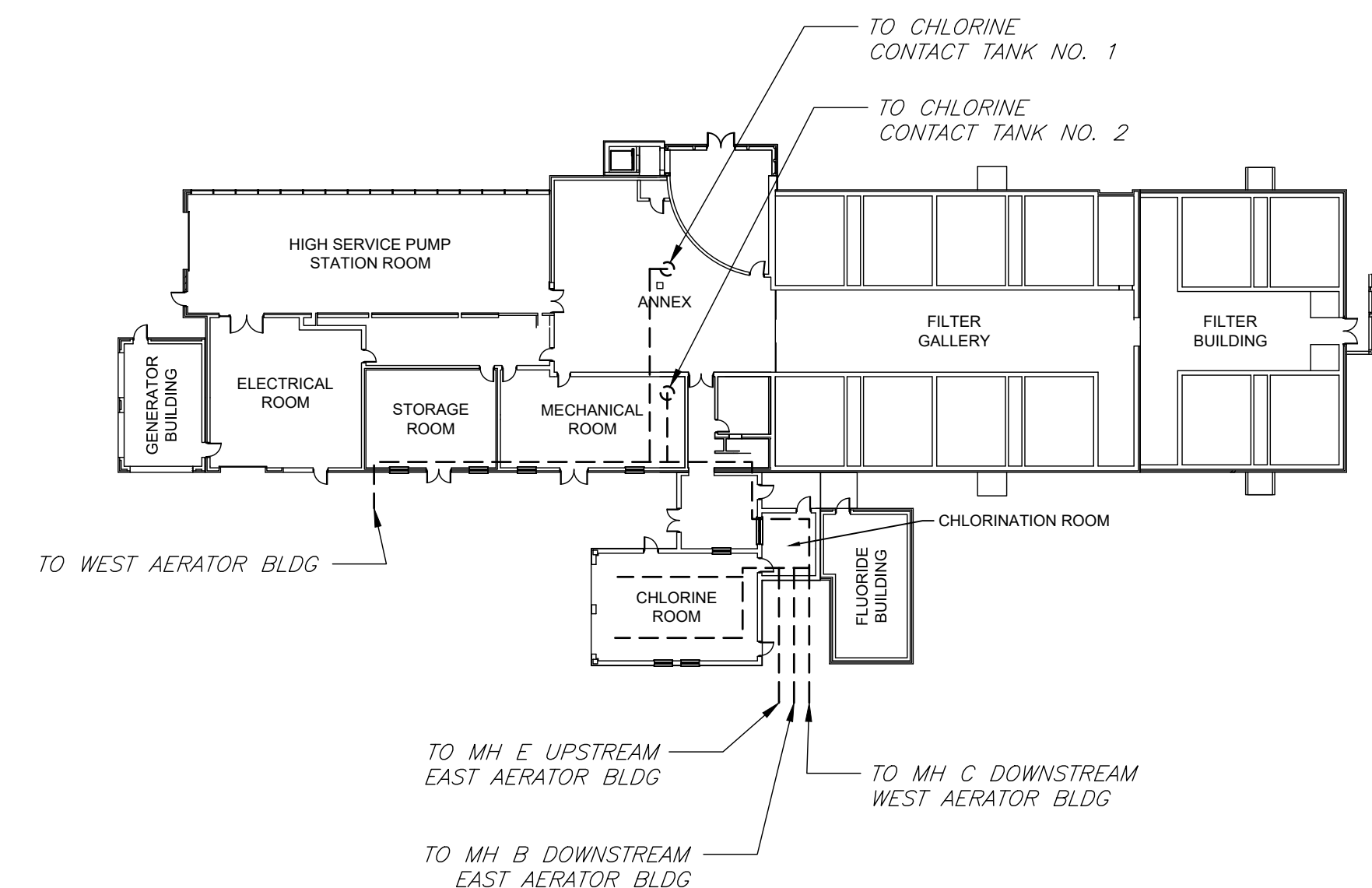
END OF SECTION





**CHLORINATION SCHEMATIC**

SCALE: NONE



**CHLORINATION PLAN SCHEMATIC**

SCALE: NONE

- NOTE:
1. REFER TO SHT. C-15 FOR STRUCTURE LEGEND.
  2. REPLACE EXISTING FIBERGLASS MESH INSECT SCREEN IN-KIND.
  3. INSPECT EXISTING PIPING BETWEEN THE 1-TON CHLORINE CONTAINERS AND NEW CHLORINATORS AND PROVIDE REPORT TO OWNER. OWNER SHALL DETERMINE THE LIMITS OF REPLACEMENT. BASE BID SHALL ASSUME REPLACEMENT OF THE ENTIRE LENGTH.
  4. INSTALL TWO (2) CHLORINE DETECTORS IN BOTH THE CHLORINE ROOM AND CHLORINATION ROOM PER SPECIFICATIONS. LOCATION SHALL BE COORDINATED PER MANUFACTURER'S RECOMMENDATIONS AND AS APPROVED BY THE OWNER.

**BURGESS & NIPLÉ**  
100 WEST ERIE STREET  
PAINESVILLE, OHIO 44077

CITY OF CANTON, OHIO  
WATER DEPARTMENT  
SUGAR CREEK  
WATER TREATMENT PLANT &  
WELLFIELD IMPROVEMENTS

NO.	DESCRIPTION	DATE
2	ADDENDUM NO. 3	05/2022
1	BID SET	04/2022

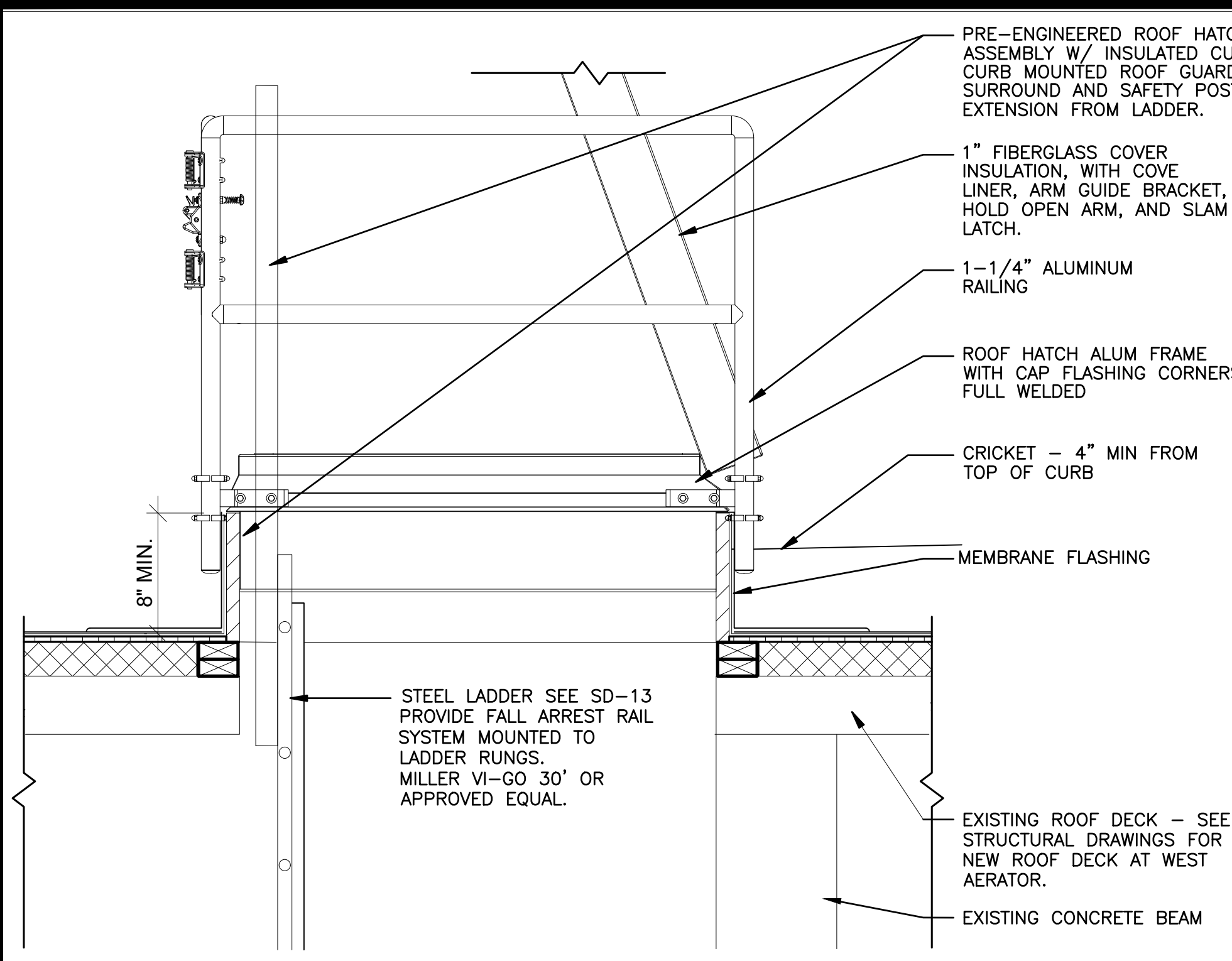
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DATE:	APR 2022
DESIGNED BY:	KAS
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CHECKED BY:	MMK
APPROVED BY:	CMS
SCALE:	NONE

CHLORINE BUILDING PROCESS SCHEMATICS

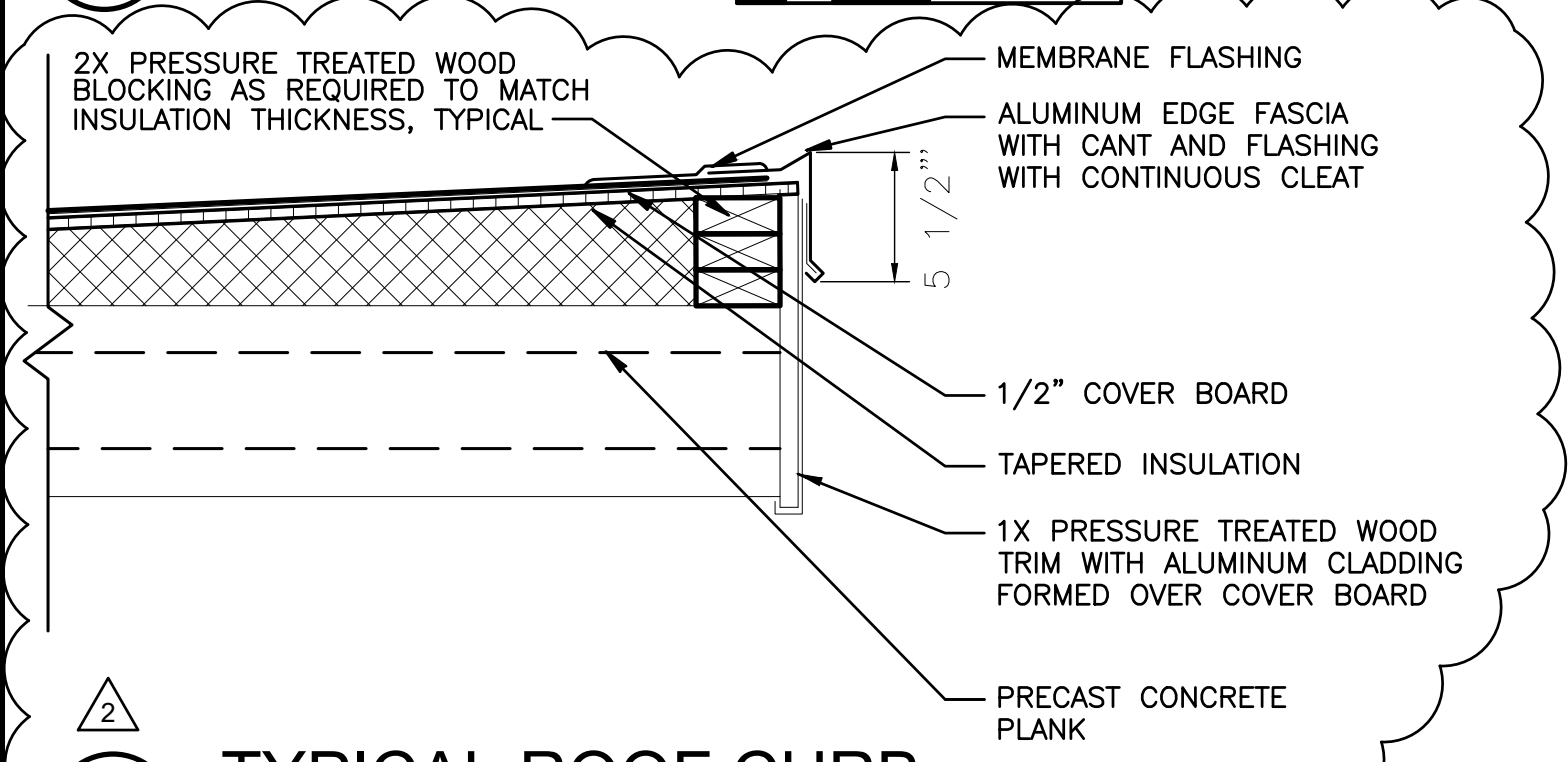
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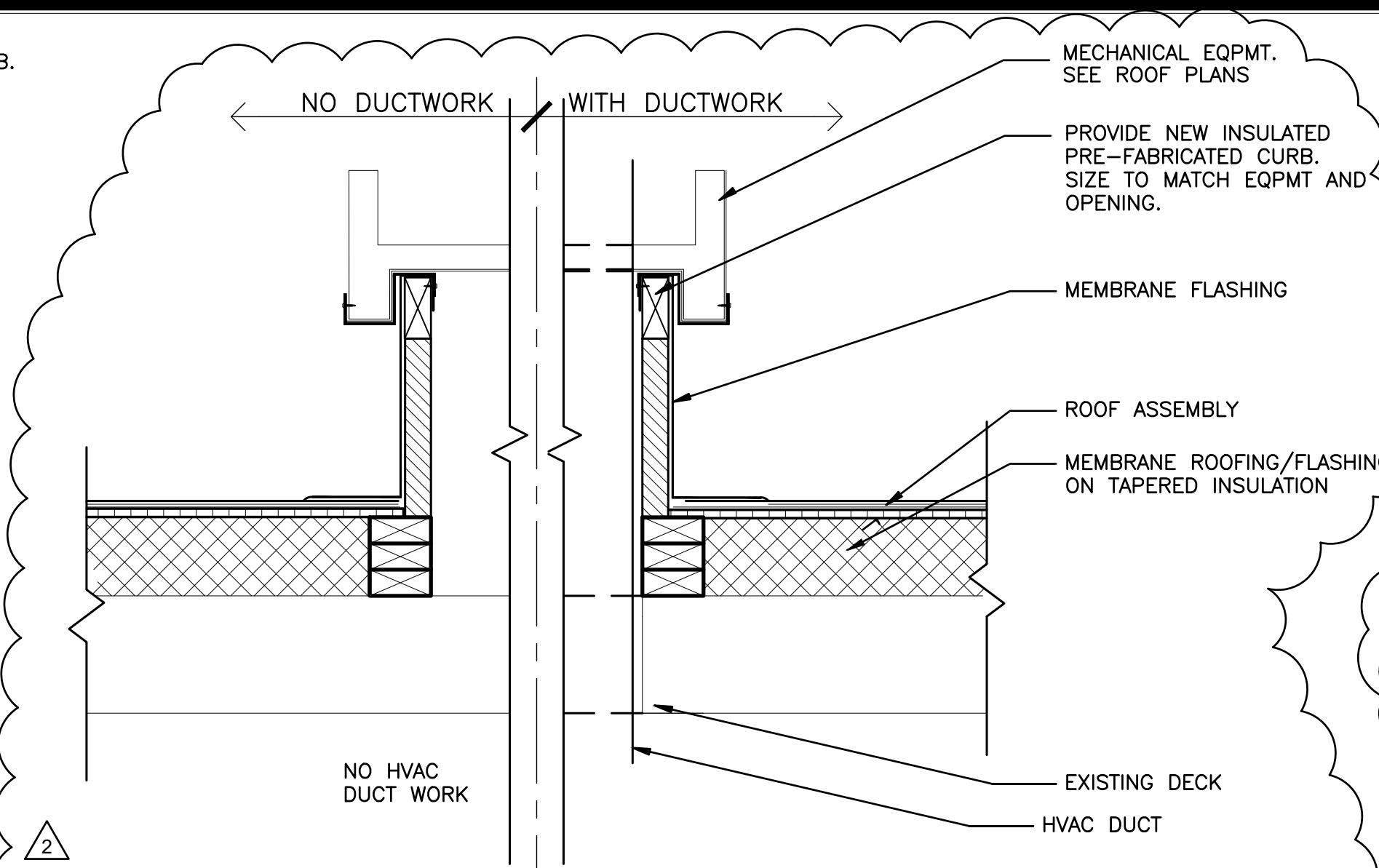
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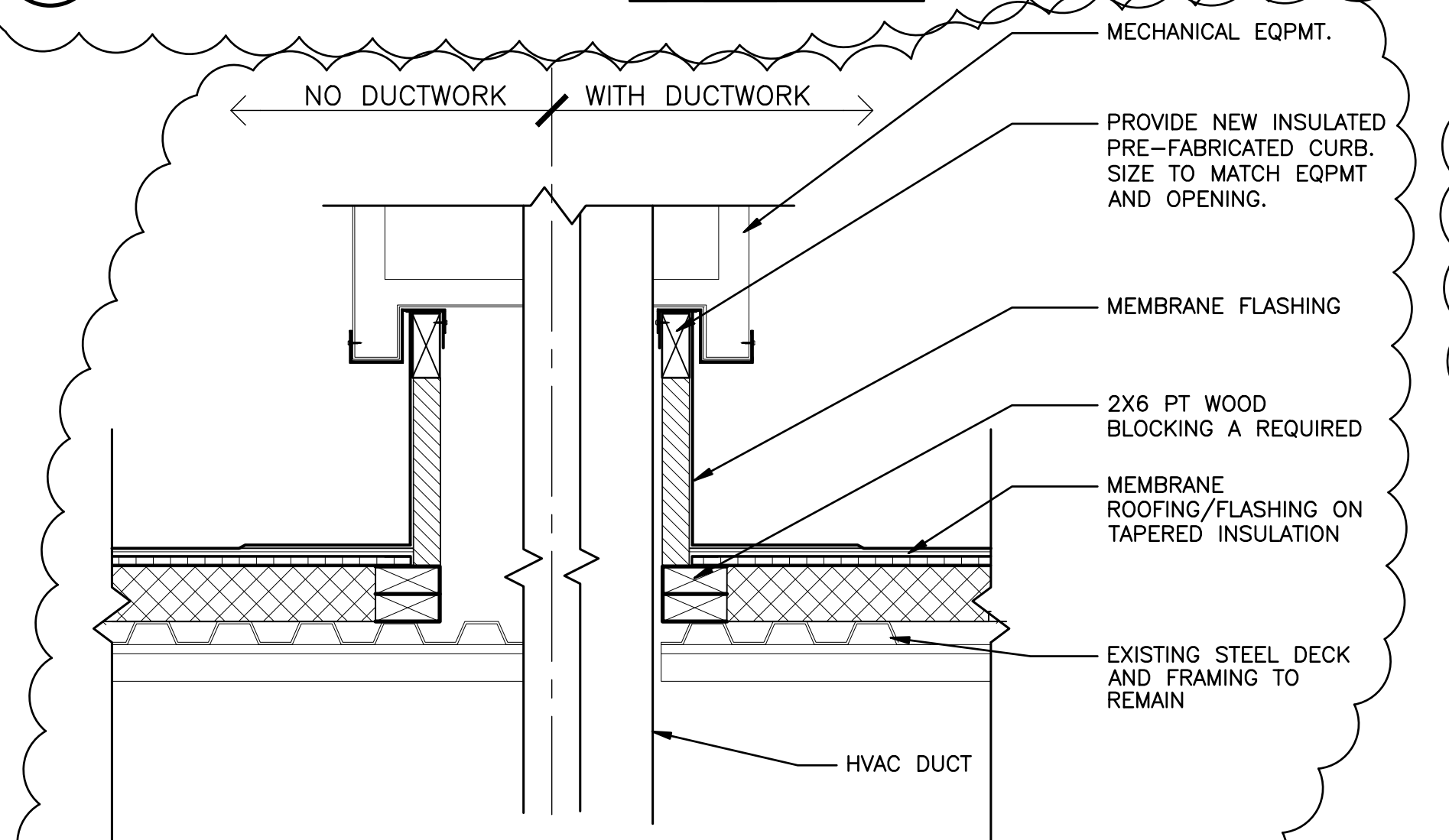
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A-3  
**TYPICAL ROOF HATCH**  
SCALE: 1 1/2" = 1'-0"



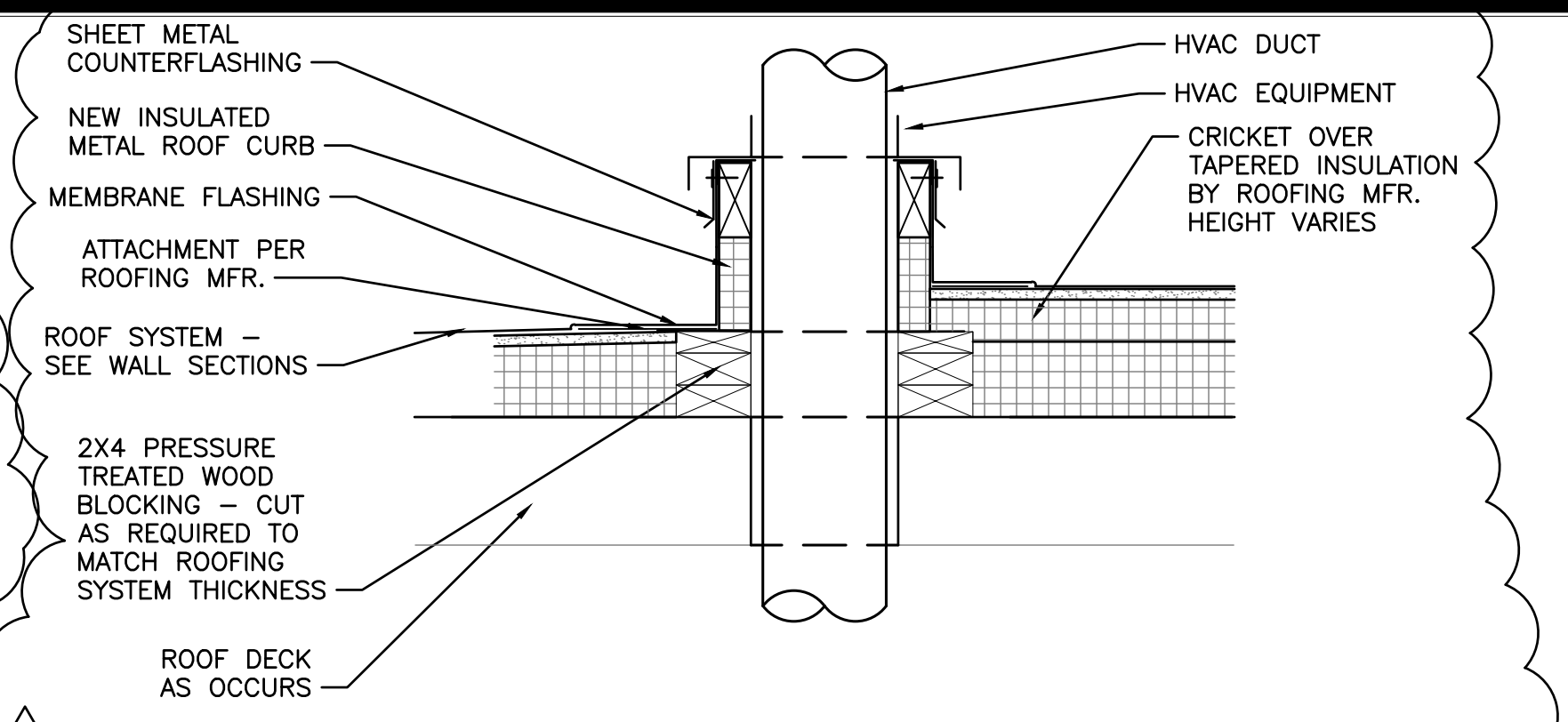
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A-3  
**TYPICAL ROOF CURB**  
SCALE: 1 1/2" = 1'-0"



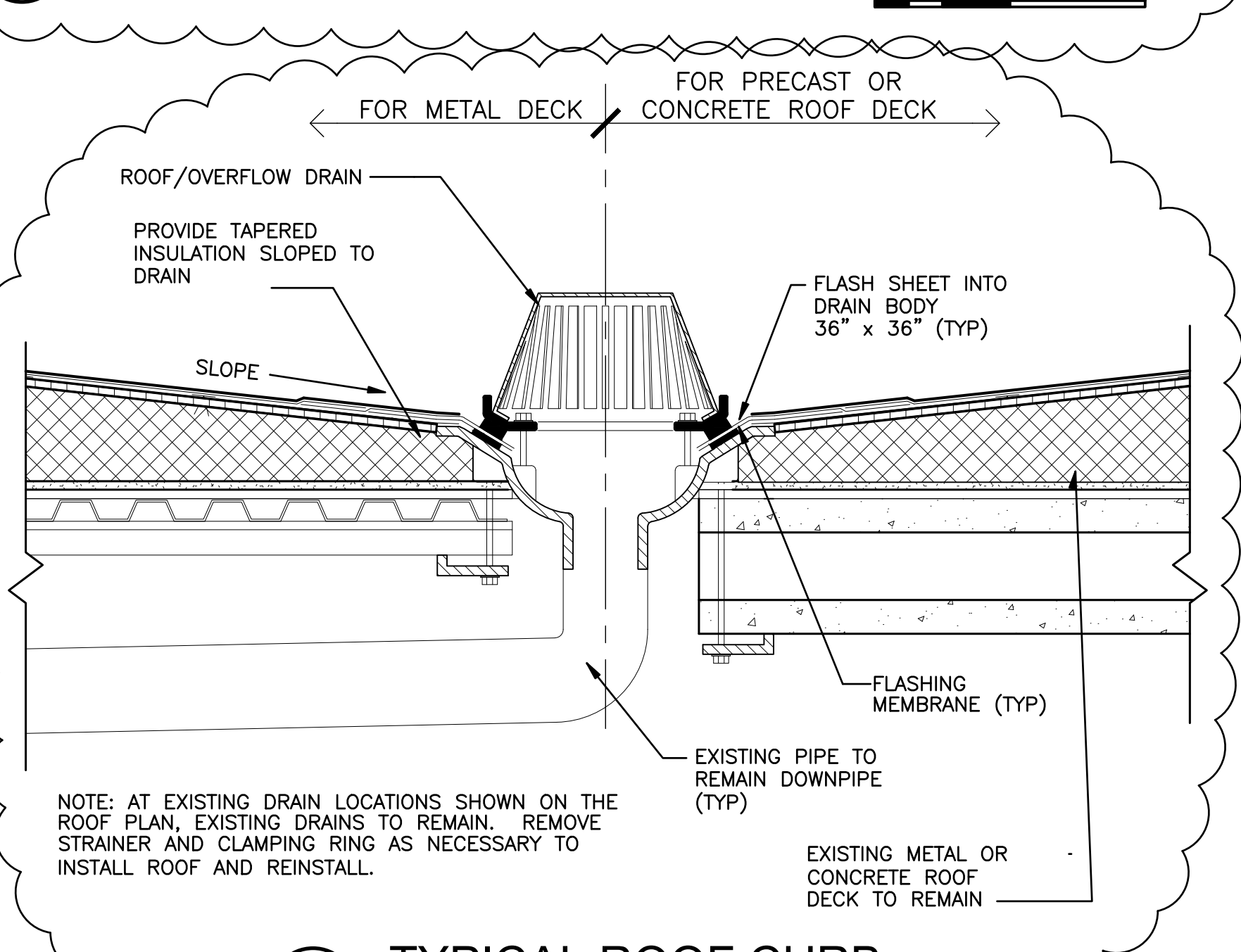
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A-3  
**TYPICAL ROOF CURB ON CONCRETE ROOF DECK**  
SCALE: 1 1/2" = 1'-0"



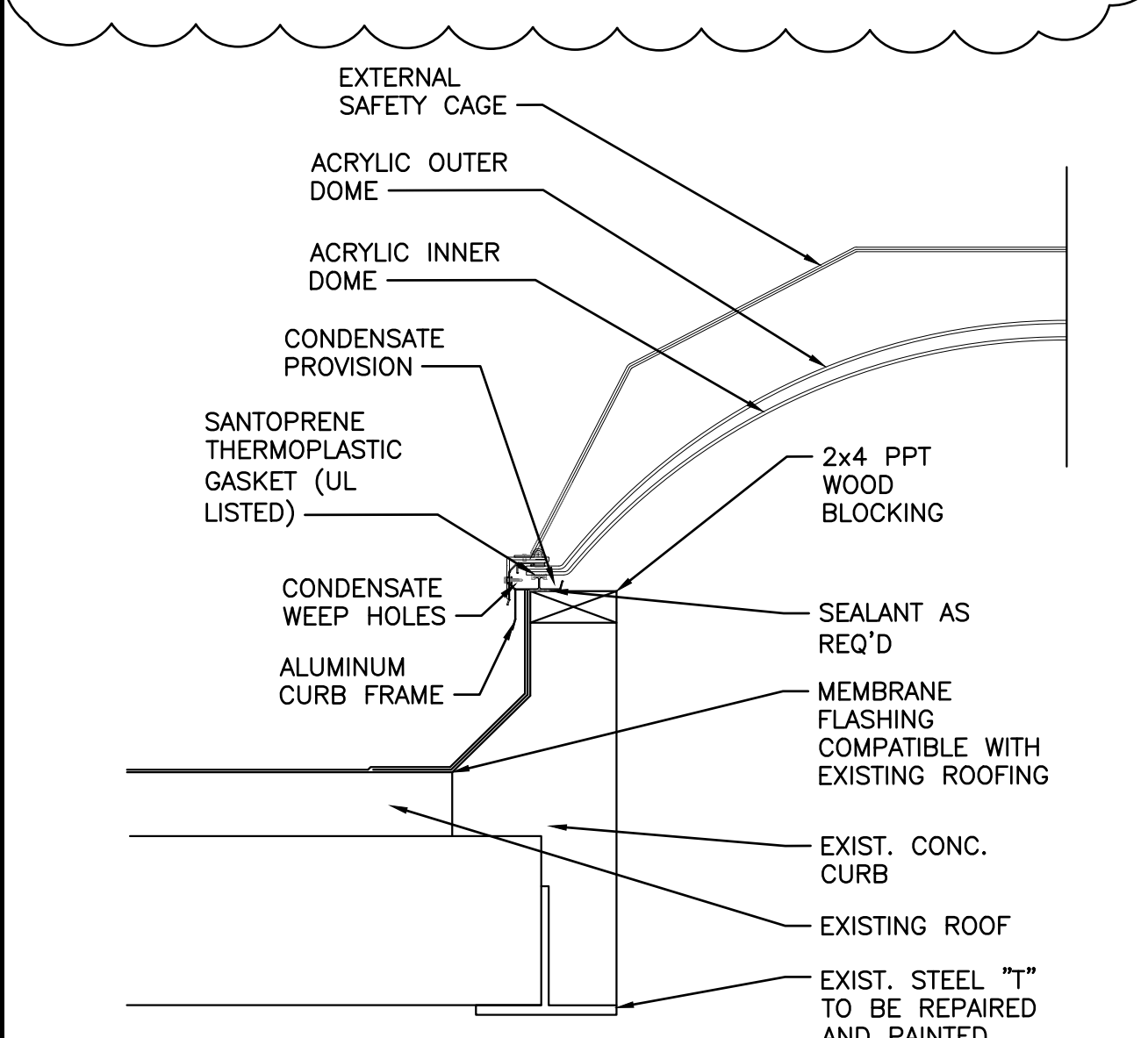
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A-3  
**TYPICAL ROOF CURB ON METAL DECK**  
SCALE: 1 1/2" = 1'-0"



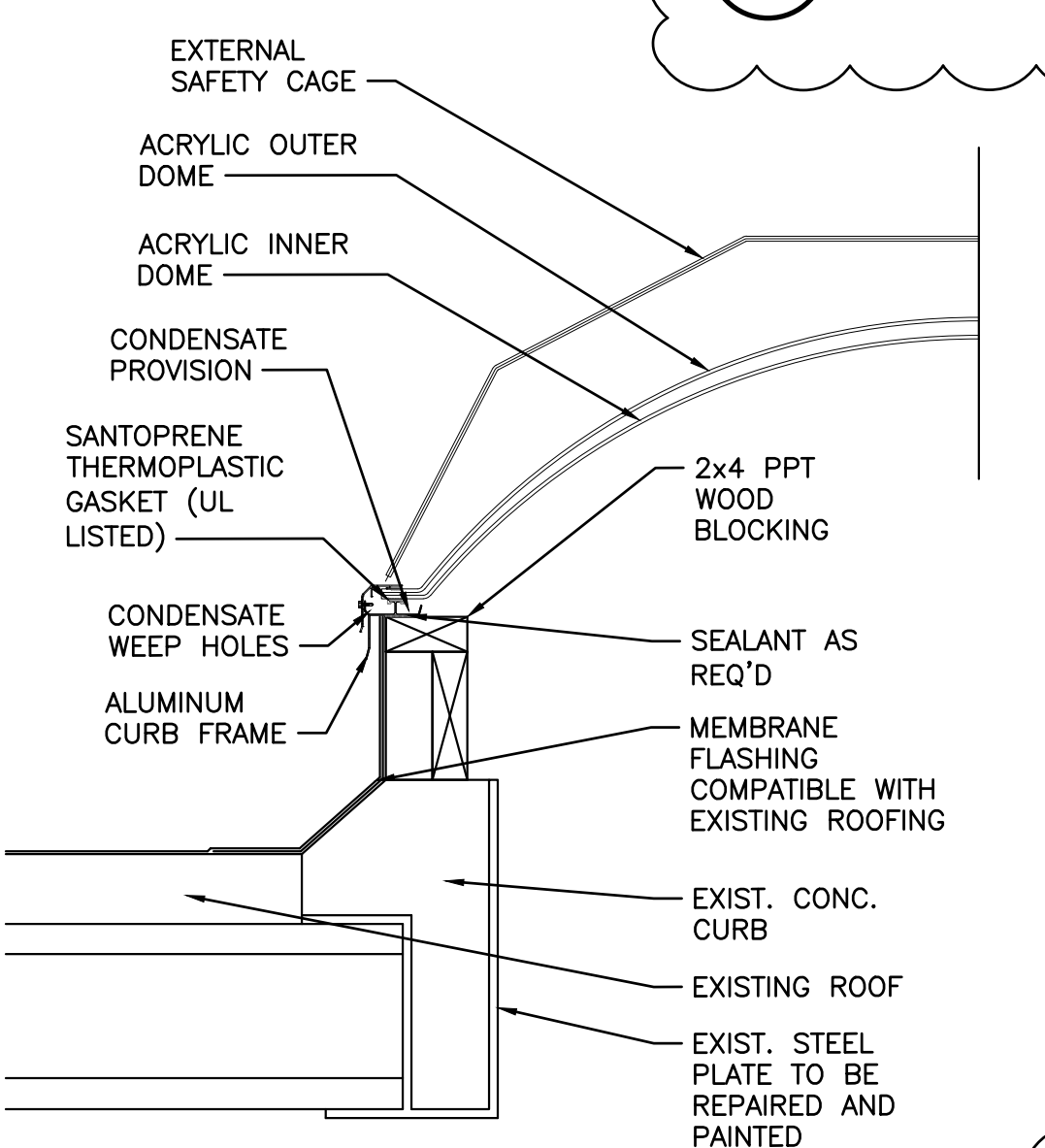
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A-3  
**TYPICAL ROOF CURB FOR DUCT PENETRATION**  
SCALE: 1 1/2" = 1'-0"



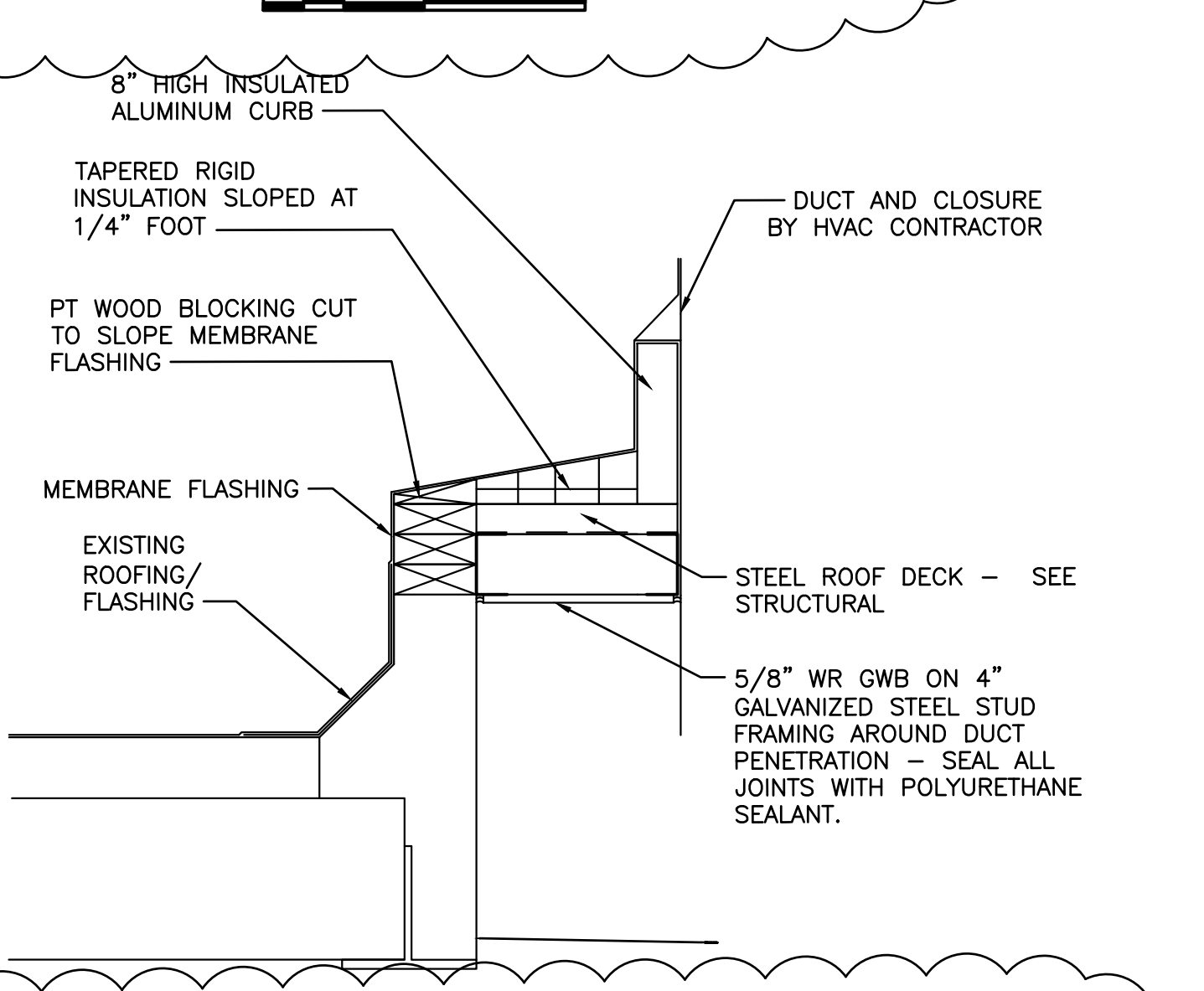
5  
A-3  
**TYPICAL ROOF CURB**  
SCALE: 1 1/2" = 1'-0"



1  
A-8  
**DETAIL**  
SCALE: 1 1/2" = 1'-0"



2  
A-8  
**DETAIL**  
SCALE: 1 1/2" = 1'-0"



3  
A-8  
**DETAIL SKYLIGHT OPENING CLOSURE W/ ROOF CURB FOR DUCT**  
SCALE: 1 1/2" = 1'-0"

**BURGESS & NIPLÉ**  
100 WEST ERIE STREET  
PAINESVILLE, OHIO 44077

CITY OF CANTON, OHIO  
WATER DEPARTMENT  
SUGAR CREEK  
WATER TREATMENT PLANT &  
WELLFIELD IMPROVEMENTS

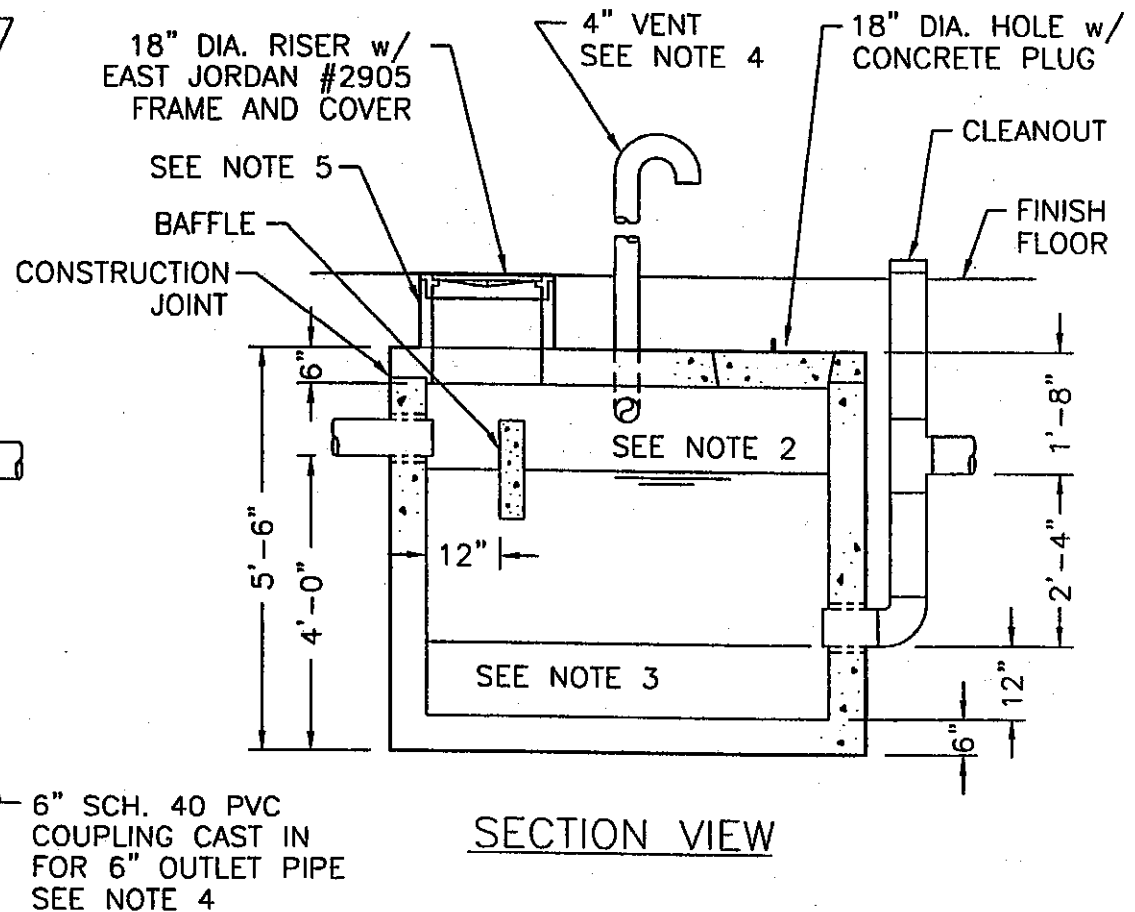
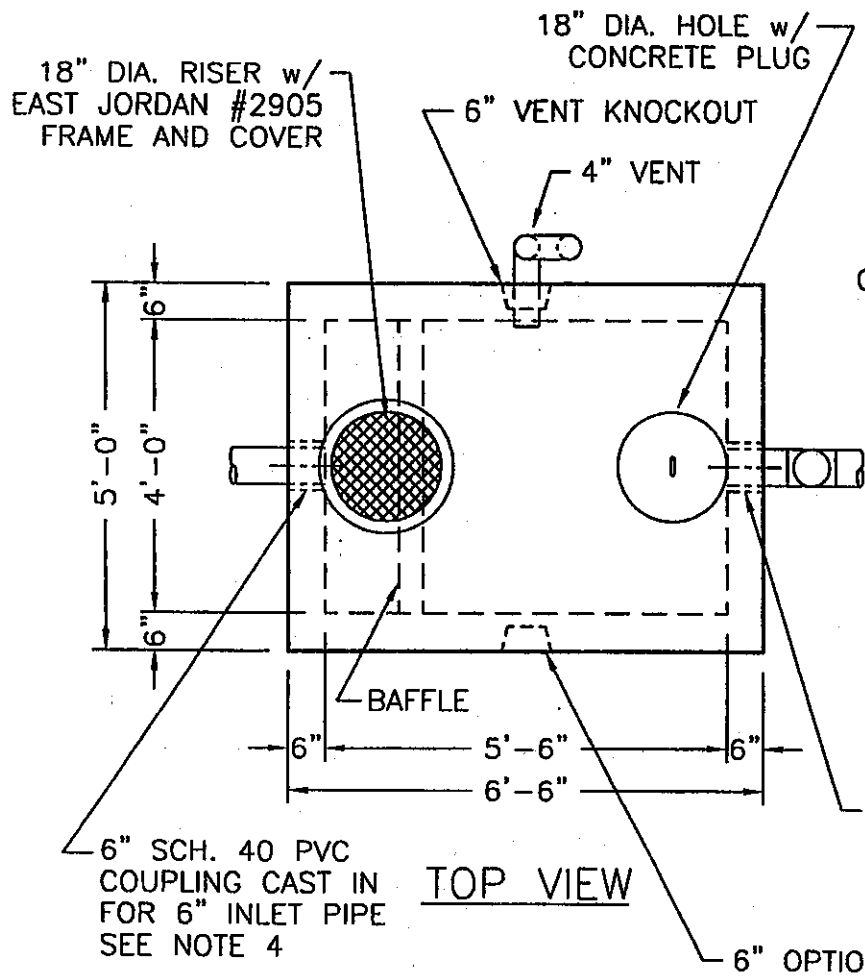
NO.	DESCRIPTION	DATE	REVISIONS
2	ADDENDUM NO. 3	05/2022	
1	BID SET	04/2022	

JOB NO: PR58982  
DATE: APR 2022  
DESIGNED BY: LMW  
DRAWN BY: JRH  
CHECKED BY: LMW  
APPROVED BY: CMS  
SCALE: NONE

MAIN & FILTER BLDG  
ARCHITECTURAL  
ROOF DETAILS

**A-22**  
SHEET: OF

P:\PR58982\Cadd\Sheets\A-22 MAIN & FILTER BLDG ARCHITECTURAL ROOF DETAILS.dwg 5/26/2022 3:22:13 PM Randy Podmore



**NOTES:**

1. REINFORCED PRECAST CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.
2. VENTILATED AIRSPACE
3. SPACE TO COLLECT SETTLING SOLIDS.
4. 4" VENT, INLET AND OUTLET PIPING BY CONTRACTOR.
5. 18" DIA. RISER AVAILABLE IN 12", 15" + 24" HEIGHTS.
6. CONSTRUCTION JOINT TO BE SEALED WITH 1" CONSEAL CS-440 OIL RESISTANT SEALANT.

374-65L

**TRAFFIC-BEARING OIL SEPARATOR**  
WITH 50 CUBIC FEET EFFECTIVE CAPACITY

DRAWN BY: BK

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

DRAWING NO.:

DATE: 4-28-95

REV: 10-23-95 BK

E-10

**MACK INDUSTRIES, INC.**

201 COLUMBIA ROAD, VALLEY CITY, OHIO 44280

(216)483-3111