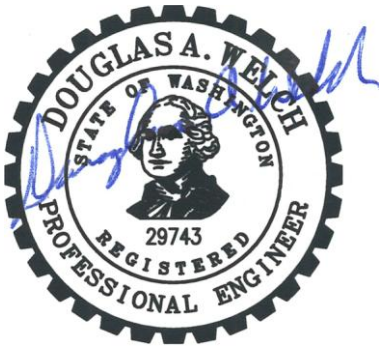
ADDENDUM 3
TO THE CONTRACT PROVISIONS AND CONTRACT PLANS

FOR

CITY OF SUMNER
WASTEWATER TREATMENT PLANT BIOSOLIDS
MODERNIZATION PROJECT
(CITY OF SUMNER CIP 21-17)

G&O #22446



11/04/2025

ISSUED THIS DATE: TUESDAY, NOVEMBER 4, 2025

BID SUBMITTAL: 1:00 P.M. (LOCAL TIME) ON THURDSAY, NOVEMBER 13, 2025
CITY OF SUMNER
CITY OF SUMNER, CITY HALL
1104 MAPLE STREET
SUMNER, WASHINGTON 98390

Bidder shall acknowledge receipt of this Addendum on Page 5 of the Proposal.

TO PROSPECTIVE BIDDERS:

The attention of all prospective bidders on the above project is directed to the following additions and modifications to the Contract Provisions and Contract Plans.

I. ADDITIONS, MODIFICATIONS, AND/OR DELETIONS TO THE TECHNICAL SPECIFICATIONS

ITEM 1:

Page iv, TECHNICAL SPECIFICATIONS TABLE OF CONTENTS

Under Division 16, Electrical, **ADD** the following Specification Section to the Table of Contents:

"16460 Dry Type Transformers ..... 16460-1"

ITEM 2:

Page 07210-3, Specification Section 07210-2.2 G., BUILDING WRAP

DELETE this Section its entirety.

ITEM 3:

Page 09900-10, Specification Section 09900-2.2 C., PIPING COLOR SCHEDULE AND IDENTIFICATION

REVISE the process and abbreviation in the Color Coding and Lettering Schedule from "Non-Pot Water NPW" to:

"Non-Pot Water Plant NPW-P"

ADD the following paragraph after the Color Coding and Lettering Schedule:

"Thermal Fluid Supply and Return Piping shall not be painted."

ITEM 4:

Page 09910-8, Specification Section 09910-2.2 B., CONCRETE BLOCK MASONRY (EXTERIOR) COATING SYSTEM

DELETE this Section its entirety.

ITEM 5:

Page 11355A-1, Specification Section 11355A-1.1, SCOPE

REVISE this paragraph as shown below (added text is italicized, deleted text is shown as strikeout):

"The work specified in this Section includes furnishing and installing ~~two~~ *one* new automatic polymer preparation/dilution systems as shown on the Plans and as specified herein."

ITEM 6:

Page 11355B-8, Specification Section 11355B-2.4 A. 1., Dry Material Storage

REVISE the first sentence in this paragraph as shown below (added text is italicized, deleted text is shown as strikeout):

"The ~~thickening polymer feed system dry storage hopper shall be a 4-cubic-foot hopper and the~~ dewatering polymer feed system dry storage hopper shall be a 10-cubic-foot hopper~~; each shall be~~ fabricated from 12-gauge 304 stainless steel."

ITEM 7:

Page 11540-1, Specification Section 11540-1.3, EQUIPMENT LIST

REVISE the Item and Equipment Number in the Equipment List from "Digester Gas Cooling Chiller Unit 02 MOV 03" to:

"Digester Gas Recirculation Control Valve 02 MOV 01"

ITEM 8:

Page 11700-6, Specification Section 11700-2.3, WEIGHBRIDGE

ADD the following subsection after subsection N.:

"O. A concrete curing compound shall be used for the concrete decking, conforming to Federal Specification TT-C-800. The compound shall be a styrene butadiene type, 30 percent solids content minimum."

ITEM 9:

Page 11700-11, Specification Section 11700-2.8, PAINTING

DELETE the paragraph in its entirety and **REPLACE** with the following:

"Entire metal surface of decking pan shall be metalized with a thermal spray coating process. The metalization process shall conform to specification SSPC-PA-18 – SSPC-CS 23.00/AWS C2.23/NACE No. 12 Specification.

All baseplates shall be hot dip galvanized in accordance with ASTM A123"

ITEM 10:

Page 13235-2, Specification Section 13235-1.4, DESIGN REQUIRMENTS

ADD the following to the end of this Section:

"Continuous Digester Gas Flow (cfh).....4,200
Peak Digester Gas Flow (cfh).....5,030

The performance requirements herein shall be met for use with the following digester gas components by volume %:

Digester Gas Composition – Post H_2S Removal System
Methane (CH_4)..... 56.0%
Carbon Dioxide (CO_2)..... 40.0%
Hydrogen Sulfide (H_2S)..... 10ppmv
Water (H_2O).....100.0% Saturation"

ITEM 11:

Page 13235-4, Specification Section 13235-2.1, APPROVED MANUFACTURERS

REVISE the first two paragraphs in this subsection as shown below (added text is italicized, deleted text is shown as strikeout):

"The Enclosed Flare Waste Gas Burner specified in this section shall be ~~as manufactured by Varec-Biogas, Inc., or Shand & Jurs Biogas~~ *a Shand &*

Jurs Biogas Model 97311T or a Varec-Biogas, Inc. Model 244E. No other *models* or manufacturer*s* shall be accepted.

~~Varec Biogas~~ *Shand and Jurs Biogas* products are the reference standard and ~~Vared Biogas~~ *Shand and Jurs Biogas* model numbers are used for individual pieces of equipment specified herein. The naming of the manufacturer does not relieve it from the responsibility to meet all aspects of these specifications."

ITEM 12:

Page 13235-6, Specification Section 13235-2.6, FLARE STACK

DELETE this Section in its entirety and **REPLACE** it with the following:

"**2.6 FLARE STACK**

The flare stack and base shall be telescopic design, constructed of stainless steel.

A. The telescopic configuration shall permit the natural draft of air for temperature control (cooling). No refractory insulation or motorized air damper shall be required.

B. Three anchor lugs for guy wire installation shall be provided on the flare stack.

C. 2-inch sampling ports at 90° shall be provided at the top of the flare stack.

D. A carbon steel pedestal coated with high temperature epoxy will support the flare stack and base as well as secure the assembly to its' concrete foundation.

E. Burner manifold with knock out drum shall be stainless steel.

F. Inlet connection shall be ANSI 150# raised face connection.

G. Venturi burners and air/fuel adjuster will be 316 SS.

H. The flare stack shall contain control valves with pressure sensors for independent control of burner stages.

I. Pilot nozzle and piping will be 316 SS. All remaining piping will be stainless steel.

J. Thermocouple, Type K, with 316 SS thermowells provided for temperature monitoring at pilot nozzle."

ITEM 13:

Page 13235-7, Specification Section 13235-2.7, BURNER

DELETE this Section in its entirety and **REPLACE** it with the following:

"**2.8 PILOT CONTROL SYSTEM**

The flare pilot system shall be intermittent, operating only during the flaring sequence or to restart the flare during re-ignition attempts within the ignition sequence. While flaring, the Continuous Pilot shall remain lit to assist in the destruction of H2S, NOx and SOx.

A. The pilot inlet pressure shall be a minimum of 4-inch W.C. to 27-inch W.C. pressure of natural gas as specified.

B. Control of the gas pressures for the Continuous and Retention Pilots shall be done with atmospheric regulators.

C. The air/fuel mixture shall be regulated by a Venturi type mixer constructed of cast iron with an aluminum throat and driven by blower air that draws in fuel at atmospheric pressure. The fuel mixture shall be adjusted by an integral gas adjuster.

D. Ignition flashback shall be prevented with a field replaceable woven mesh element. The use of mechanical flashback devices shall not be permitted.

E. The pilot nozzle shall be of 316 stainless steel construction and positioned at a 45° angle to direct the pilot flame through a greater projected area of the air/fuel mixture created by the swirl inducers.

F. The pilot shall be ignited by a ground level "spark plug" igniter to prevent unintentional grounding of the electrode. The igniter shall be enclosed in an aluminum NEMA 7 enclosure.

G. Ignition voltage shall be provided by a 120V/6000VAC ignition transformer, mounted in the Pilot Control Panel. High voltage/high temperature lead wire shall be utilized between igniter and ignition transformer.

H. Pilot fuel gas lines shall be 1/2 inch, Schedule 40, Stainless Steel for the Retention Pilot and 2 inch, Schedule 40, Stainless Steel for the Continuous Pilot. The inlet gas connection shall be 1-inch NPT.

I. Pilot control system shall contain as a minimum the following: stainless steel manual block valve, cast iron strainer, explosion proof solenoid valve with aluminum

body and stainless-steel insert and 0-30-inch W.C. pressure indicator. Provide Test Point for Atmospheric Regulator.

J. Pilot fuel consumption shall not exceed 1.0 CFM for natural gas."

ITEM 14:

Page 13235-8, Specification Section 13235-2.8, CONTROL COMPONENTS

DELETE this Section in its entirety and renumber subsequent sections accordingly.

ITEM 15:

Page 14550-2, Specification Section 14550-1.3, EQUIPMENT LIST

REVISE Equipment Number "11 SSC 03" to:

"11 SCR 03"

REVISE Equipment Number "11 SSC 04" to:

"11 SCR 04"

REVISE Equipment Number "11 SSC 05" to:

"11 SCR 05"

ITEM 16:

Page 15050-2, Specification Section 15050-1.4, PIPE MATERIALS

REVISE the Process and Abbr. identifier for "Non-Pot Water (<3") NPW" to:

"Non-Pot Water (Plant) (<3") NPW-P"

REVISE the Process and Abbr. identifier for "Non-Pot Water (>3") NPW" to:

"Non-Pot Water (Plant) (>3") NPW-P"

ADD the following to the pipe materials table between "Dewatered Sludge" and "Hydronic Return:"

"Glycol GLY Stainless Steel Stainless Steel"

ITEM 17:

Page 15100-7, Specification Section 15050-PART 2, PRODUCTS

ADD the following to the end of this Section:

"**2.18 BALL VALVES 3-INCH AND LARGER**

Ball valves 3-inch and larger shall be A126 Class B cast iron body, ANSI B16.1 flanges, epoxy coated with stainless steel ball and stem, PTFE seats and packing, full port with lever handles lockable in the open or closed position. Valves shall be Apollo 6PLF Series Class 125 cast iron ball valve or equal."

ITEM 18:

Page 15723-1, Specification Section 15723-1.2, SUBMITTALS

REVISE the Section D. as shown below (added text is italicized, deleted text is shown as strike out):

"D. Submit performance data indicating energy input versus cooling load output from 100 to ~~25~~ *60* percent of full load with constant entering condenser water temperature."

ITEM 19:

Specification Section 16010, Basic Electrical Requirements

REVISE footer page numbers to reference Section 16010 in lieu of 16050

ITEM 20:

Specification Section 16120, Conductors and Cables

REVISE footer page numbers to reference Section 16120 in lieu of 16050

ITEM 21:

Page 16120-2, Specification Section 16120-2.1 G., Size and Type

REVISE Subsection 4. to read "Grounding Electrode Conductors: …" in lieu of "Grounding Conductors: …".

ADD Subsection 5 reading "Equipment Grounding Conductions: Use solid conductor when associated current carrying conductors are solid. Use stranded conductors otherwise."

ITEM 22:

Page 16415-1, Specification Section 16415, AUTOMATIC TRANSFER SWITCHES

REVISE Specification Section title and footer title to read "MANUAL TRANSFER SWITCHES" in lieu of "AUTOMATIC TRANSFER SWITCHES".

ITEM 23:

Page 16415-1, Specification Section 16415-1.2, SUMMARY

REVISE the Section A as shown below (added text is italicized, deleted text is shown as strikeout):

"A. This Section includes ~~sutomatic~~ *manual* transfer switches whether individually mounted or group mounted in switchboards or motor control centers and similar equipment."

REVISE the Section B as shown below (added text is italicized, deleted text is shown as strikeout):

"B. ~~Automatic~~ *Manual* transfer switches specified under this Section include:

1. ~~Automatic~~ *Solids Handling Building Manual Transfer Switch*~~es~~ *and Docking Station* ~~(ATS1 and ATS2), ATS SHB, and ATS OB~~"

ITEM 24:

Page 16415-3, Specification Section 16415-2.1 A. 1., Automatic Transfer Switches

REVISE Subsection 1 as shown below (added text is italicized, deleted text is shown as strikeout):

"1. ~~Automatic~~ *Manual* Transfer Switches"

ITEM 25:

Page 16415-4, Specification Section 16415-2.2 A. 11., Auxiliary contacts

DELETE Subsection b. in its entirety.

ITEM 26:

ADD attached Specification Section 16460 DRY TYPE TRANSFORMERS.

ITEM 27:

Specification Section 16921, Requirements for SCADA Communications

REVISE footer page numbers to reference Section 16921 in lieu of 16230.

II. ADDITIONS, MODIFICATIONS, AND/OR DELETIONS TO THE CONTRACT PLANS

ITEM 1:

SHEET G-2, SHEET INDEX

REVISE the title of Sheet I-7 from "Dewatering Flocculation Tank, Screw Press and Conveyors" to "Dewatered Sludge Storage Hopper and Conveyors".

ADD the following sheets to the Sheet Index:

"E40-A PANELBOARD CIRCUIT SCHEDULES
E5-1 MODIFIED ELECTRICAL PLANS EQUIPMENT BUILDING NO. 3"

ITEM 2:

SHEET M-1, MECHANICAL ABBREVIATIONS, SYMBOLS, PIPING AND EQUIPMENT IDENTIFICATION

REVISE the equipment abbreviation for the Hydrogen Sulfide Scrubber from "HSC" to:

"HSS"

DELETE "LLC LEVEL LOADER CONVEYOR" from the Equipment List and **REPLACE** it with:

"LCR LOADOUT CONVEYOR"

ADD the following to the Equipment List:

"HDC HOPPER DISCHARGE CONVEYOR
HLA HOPPER LEVELING AUGER
HDC HOPPER DISCHARGE CONVEYOR
HPC HOPPER LIVE BOTTOM CONVEYOR
SCR SCREW CONVEYOR"

ITEM 3:

SHEET M10-1, EQUIPMENT BUILDING NO. 2 DEMOLITION PLAN

ADD the following note to this sheet:

"8. THE EXISTING DAF HAS AN OVERALL LENGTH OF 32'-6" LONG X 12'-3" WIDE X 11'-2" TALL. THE FLOATATION

TANK HAS AN OVERALL LENGTH OF 27'-6" LONG X 11'-5" WIDE 9'-1" TALL. THE WALL THICKNESS OF THE FLOATATION TANK IS 1/4" A-36 STEEL AND THE INLET MIX CHAMBER IS 3/16" A-36 STEEL. THE NON-SUBMERGED METAL IS COATED WITH A PRIME COAT OF TNEMEC #66-1211 EPOXOLINE (FINISH COAT UNKNOWN) AND THE INTERIOR SURFACES ARE COATED WITH 16 MILS OF TNEMEC #104 H.S. EPOXY."

ITEM 4:

SHEET M11-10, SOLIDS HANDLING BUILDING LOWER MODIFICATION PLAN SOUTH

REVISE the pipe identification callout just North of the Dryer drive motor from "2" NPW" to:

"2" NPW-P"

ITEM 5:

SHEET A10-2, EQUIPMENT BUILDING NO. 2 PROPOSED FLOOR PLAN

REVISE the Removable Guardrail call-out as shown below (added text is italicized, deleted text is shown as strike out):

"REMOVABLE GUARDRAIL; SEE ~~S-SHEETS~~ *SHEET S-5*"

ITEM 6:

SHEET A11-4, FLOOR PLAN

REVISE the east-west Section A section cut symbol as shown below (added text is italicized, deleted text is shown as strike out):

"~~A~~*B* / ~~A11-10~~ *A11-11*"

REVISE the north-south Section B section cut symbol as shown below (added text is italicized, deleted text is shown as strike out):

"A / ~~A11-10~~ *A11-11*"

ITEM 7:

SHEET A11-11, BUILDING CROSS SECTION

ADD the Deflagration Duct Wall Opening Detail to the sheet as shown in the attached Addendum Drawing "AD-1."

ITEM 8:

SHEET H-2, HVAC SCHEDULES

In the [11 HP 06] row of the HEAT PUMP SCHEDULE, **ADD** the following to the HEATING CAPACITY column:

"COND. EFT = 160°F
COND. LFT = 180°F
EVAP. EFT = 58°F
EVAP. LFT = 48°F"

ITEM 9:

SHEET H-2, HVAC SCHEDULES

In the [11 HP 06] row of the HEAT PUMP SCHEDULE, **ADD** the following to the COOLING CAPACITY column:

"COND. EFT = 74 °F
COND. LFT = 87 °F
EVAP. EFT = 57 °F
EVAP. LFT = 47 °F"

ITEM 10:

SHEET H-3, HVAC SCHEDULES

DELETE the HYDRONIC COIL SCHEDULE, and **REPLACE** it as shown in the attached Addendum Drawing "AD-2."

ITEM 11:

SHEET P-1, NOTES, DETAILS, AND SCHEDULES

ADD the Typical Hydronic Coil Detail to the sheet as shown in the attached Addendum Drawing "AD-3."

ITEM 12:

SHEET S3-3, AERATION BASIN NO. 1 DETAILS

REVISE section C on this sheet as shown on the attached Addendum Drawing "AD-4."

ITEM 13:

SHEET S11-3, INTERIM STRUCTURE PLAN

REVISE Section D on this sheet as shown on the attached Addendum Drawing "AD-5."

ITEM 14:

SHEET S11-17, TEMPORARY STRUCTURE DETAILS

REVISE Section A on this sheet as shown on the attached Addendum Drawing "AD-6."

ITEM 15:

SHEET S11-17, TEMPORARY STRUCTURE DETAILS

REVISE Section F on this sheet as shown on the attached Addendum Drawing "AD-7."

ITEM 16:

SHEET S11-17, TEMPORARY STRUCTURE DETAILS

REVISE Section h on this sheet as shown on the attached Addendum Drawing "AD-8."

ITEM 17:

SHEET I-7, DEWATERING FLOCCULATION TANK, SCREW PRESS AND CONVEYORS

REVISE the Title of this Sheet from "Dewatering Flocculation Tank, Screw Press and Conveyors" to "Dewatered Sludge Storage Hopper and Conveyors"

REVISE the Equipment Tag ID "11 PDR 01" to:

"11 HPD 01"

REVISE the Equipment Tag ID "11 PDR 02" to:

"11 HPD 02"

REVISE the Equipment Tag ID "11 SC 03" to:

"11 SCR 03"

REVISE the Equipment Tag ID "11 SC 04" to:

"11 SCR 04"

REVISE the Equipment Tag ID "11 SC 05" to:

"11 SCR 05"

REVISE the Equipment Tag ID "11 LC 05" to:

"11 HLA 05"

ITEM 18:

SHEET I-7, DEWATERING FLOCCULATION TANK, SCREW PRESS AND CONVEYORS

REVISE the Title of this Sheet from "Dewatering Flocculation Tank, Screw Press and Conveyors" to "Dewatered Sludge Storage Hopper and Conveyors"

REVISE the Equipment Tag ID "11 DC 01 DISCHARGE CONVEYOR" to:

"11 FPC 01 FINAL PRODUCT CONVEYOR"

REVISE the Equipment Tag ID "11 LVC 01 LEVELING CONVEYOR" to:

"11 LCR 01 LEVELING CONVEYOR"

REVISE the Equipment Tag ID "11 SC 03" to:

"11 SCR 03"

REVISE the Equipment Tag ID "11 SC 04" to:

"11 SCR 04"

REVISE the Equipment Tag ID "11 SC 05" to:

"11 SCR 05"

ITEM 19:

SHEET I-12, HEAT PUMP SYSTEM

REVISE the pipe identification callout lines into and out of the left side of the Flat Plate Heat Exchanger from "4" NPW-C" to:

"4" NPW-P"

ITEM 20:

SHEET E-40, PANELBOARD CIRCUIT SCHEDULES

DELETE schedule for LPSHB2.

ITEM 21:

SHEET E-40A, PANELBOARD CIRCUIT SCHEDULES

ADD the attached Sheet E-40A.

ITEM 22:

SHEET E-43, COMMUNICATIONS BLOCK DIAGRAM

DELETE the entire Sheet and **REPLACE** with the attached revised Sheet E-43.

ITEM 23:

SHEET E5-1, MODIFIED ELECTRICAL PLAN EQUIPMENT BUILDING NO. 3

ADD the attached Sheet E5-1.

Contractor Questions/Clarifications

1. **Specification Section 15050 2.18 – Comment:** Please clarify whether metallic pipe that is required to be insulated per 15050 par. 2.18 is also required to be painted, or if it can be left bare. I am asking this regarding the thermal fluid (TF) system particularly.

   Response: The thermal fluid (TF) piping is not painted. Other piping systems shall be painted in accordance with 09900. Section 09900 has been clarifier in Addendum 3.

2. **Specification Section 15110 – Comment:** "Electric actuated valve 02 MOV 01 in spec section 15110 does not appear to be found on the plans. But it appears this valve may be included as part of the gas compression moisture removal equipment skid in spec section 11540 – can you confirm this?"

   Response: Confirmed. This has been clarified in Addendum 3.

3. **Sheet M4-2 -Comment:** "Can you provide a new plan sheet for M4-2? The existing one has some writing over the top of each other in Section A."

   Response: Section A on Sheet M4-2 was revised in Addendum 2.

4. **Specification Section 11700 - Comment:** "Section 11700 – Truck Scales
   Per the above project specification section, 2.1 Approve Manufacturers, the truck scale system is to be the VTC25X FND PT 23x10 truck scale manufactured by Mettler Toledo or equivalent equipment. Per 2.2 General D. "The load cells and load cell mounting hardware shall be constructed of stainless steel. The cables shall be stainless steel sheathed. Load cells which are not stainless steel and hermetically sealed shall not be acceptable because of their inability to prevent moisture from entering the load cell and causing a premature failure.

   Per Mettler Toledo:

   The one part of the bid spec that does seem to be off is the Galvanizing as we do not offer it with the VTC25X concrete deck pans as it tends to warp them out of conformance and we recommend the Metallization option per attached.

   Please advise if the Metallization option would be acceptable."

   Response: Metalization of the truck scale pan is acceptable. The load cell base plates will be hot dipped galvanized. Refer to Addendum 3 for clarification.

5. **Specification Section 11700 - Comment:** "Spec section 11700-2.1 indicates, "The truck scale system shall be the VTC25X FND PT 23x10 truck scale manufactured by Mettler Toledo…". Spec section 11700-2.8 indicates "All

carbon steel shall be hot-dipped galvanized…". Per Mettler Toledo (the specified manufacturer), they do not offer the specified product (VTC25X) with galvanizing as it tends to warp them out of conformance. Mettler Toledo recommends metallization (see attached information) instead of galvanizing. Please confirm that metallization is approved instead of galvanizing. ".

Response: Metalization of the truck scale pan is acceptable. Refer to Addendum 3 for clarification.

6. **Specification Section 11700 - Comment: "**Are there special coatings required for the Truck Scale deck? Painting, powder coating, or hot dip galvanizing? I assume the load cells and stands must be stainless".

   Response: "The truck scale pan shall be metalized. The loads cells shall be stainless steel, as specified, and the load cell base plates shall hot dipped galvanized. Refer to Addendum 3 for clarification."

7. **Sheet S11-3 Comment:** "S11-3 (Interim Structure Plan) calls out detail D/S11-3, where a W10x12 beam along the outer wall of the temporary canopy is shown. In detail D, detail A/S11-17 called out. These details contradict the spacing and embedment of the adhesive anchors. Please confirm qty (4) FOUR 5/8" dia anchors with 6" min embed per D/S11-3 at each concrete pier is correct, and that the qty (2) TWO @ 32" o.c. w/ 5" min embed per A/S11-17 is incorrect."

   Response: These notes are clarified in Addendum 3.

8. **Sheets S3-2 and S4-2 Comment: "**S3-2 & S4-2 (Aeration Basin No. 1 & 2 Upper Framing Proposed Plans) each show two W14x43 beams that meet at an existing concrete wall, where detail C/S3-3 is called out.
   a. Please confirm the ½"x10"x1'-2" plate requires adhesive anchors, not CIP anchor rods as referenced
   b. Please confirm field welding is required where the two beams meet at this plate."

   Response: This is clarified in Addendum 3.

9. **Specification Section 07210 – Comment:** "Section 07210 " Batt and Rigid Insulation," Part 2 – Materials, 2.2G "Building Wrap" requires a mechanically attached water-resistive, vapor permeable air-barrier membrane system. Architectural sheets do not show or tag a building wrap/WRB/air barrier in exterior wall assemblies. No keynote or detail references to "WRB", "building wrap", or "air barrier" is found in the documents. Please confirm that the building wrap/WRB is not required on this project. If it is required, please confirm where."

   Response: This does not apply to this project and has been deleted in Addendum 3.

10. **Comment: "**There are several lines on the drawings marked as NPW-P, but I don't see this designation on the pipe schedule. Please clarify what is required for these lines."

    Response: "Section 15050 has been revised in Addendum 3 to clarify this"

11. **Sheet I-12 Comment:** "Drawing I-12 shows the 4" lines coming into and out of the heat exchanger as NPW-C which the pipe schedule indicates should be stainless steel for inside service, yet drawing M11-20 has these 4""

    Response: This line is NPW-P and should be ductile iron. This will be clarified in Addendum 3.

12. **Specification Section 15100 – Comment: "**There are flanged ball valves shown on the 3" NPW-P lines, yet I do not see a specification for these valves in section 15100 – please provide one."

    Response: A specification for the flanged ball valves has been included in Addendum 3.

13. **Comment:** "Please provide specification section for transformer "T-LPSHB2".

    Response: This specification section has been included in Addendum 3.

14. **Comment:** "Please provide detailed drawings for the temp power configuration utilizing City of Sumner provided temporary generators".

    Response: Both of the City's generators will be connected in parallel to the the new manual transfer switch, which will wired into the existing automatic transfer switch, as shown on the Contract Documents. A note will be added in Addendum 3 clarifying that the City's generators include provisions for parallel operations.

15. **Sheets E-5, E-6 and E-43 Comment:** "Please confirm that there is no longer any fiber demo and installation per the deleted sheet notes in Addendum 2 on E-5 and E-6 and the only new fiber is what is shown on E-43."

    Response: Confirmed that there is no fiber demo required. Additional clarification on Sheet E-43 will be provided in Addendum 3.

16. **Comment:** "Addendum 2 Item #24 Please confirm the additional panel section size, rating, breaker count and schedule."

    Response: "A panel drawing will be provided in Addendum 3."

17. **Comment:** "Are there as-built equipment drawings or information on the existing Dissolved Air Floatation Thickener? Specifically, drawings with dimensions, steel thickness, internal cut sheets, and exterior/interior coatings; lead based or PCB containing paint."

    Response: "A note was added to Sheet M10-1 in Addendum 3 providing details on the existing DAF tank size, material thickness and coating systems"

18. **Sheets E-4 and E-6 Comment:** "Sheet E-6, Duct bank Section "B" shows a new "Power Conduit to Switchboard", but no details on this switchboard are given. Site plan E-4 calls for 8#12s in a 2" Conduit, is this correct? Please give details about the switchboard in Equipment Building No.3, and clarifications to scope of work within that building."

    Response: See Addendum 3 for additional information/clarification on Drawing E5-1.

19. **Specification Section 16050 Comment:** "Spec 16050 2.1.G calls for solid grounding conductors for wire sizes #6AWG and smaller. Please consider revising the wire size for solid grounding conductors to #12AWG and smaller."

    Response: This specification refers only to solid grounding electrode conductors and not equipment grounding conductors. This is clarified in Addendum 3.

20. **Comment: "**Are there as-built equipment drawings or information on the existing Dissolved Air Floatation Thickener? Specifically, drawings with dimensions, steel thickness, internal cut sheets, and exterior/interior coatings; lead based or PCB containing paint."

    Response: A note was added to Sheet M10-1 in Addendum 3 providing details on the existing DAF tank size, material thickness and coating systems.

21. **Comment:** "Please advise on the type of material for designation NPW-P (found on Dwg M11-10). There is no callout noted in Spec 15050 Piping Systems – Pipe Materials."

    Response: "Section 15050 has been revised in Addendum 3 to clarify this."

22. **Specification Section 11355A Comment:** "Spec Section 11355A, 1.1 Scope states that this specification is for two new automatic polymer preparation/dilution systems; however, paragraph 1.3 only lists one (1) system. Please confirm that 11355A is for one (1) Wet Emulsion Polymer Thickening system and that 11355B is for two (2) Dry polymer systems, one for thickening and another for dewatering as described by their feeders in paragraph 2.4, a.1."

    Response: Only one thickening polymer system is to be supplied under Section 11355A. Only one dewatering polymer system is to be supplied under Section 11355B. Refer to Addendum 3 for clarification.

23. **Comment: "**Drawing M11-10 shows the Final Product Conveyor (equipment # 11FPC01), however, P&ID I.8 shows the Final Discharge Conveyor as 11DC01. There are numerous instances like this that relate to conveyors. Please confirm that the same Conveyor Numbers and Conveyor Descriptions on the P&IDs are the ones used in Mechanical Drawings."

    Response: Those are the same conveyors. Refer to Addendum 3 for clarification.

24. **Specification Section 09910-2.2.B Comment: "**Exterior CMU calls for paint under spec 09910, but spec 04200-2.5.C calls for dampproofing at all exterior CMU. Please confirm desired finishes at CMU."

    Response: Exterior CMU does not receive paint. Refer to Addendum 3 for clarification.

25. **Sheet A10-2 - Comment:** "Sheet A10-2 calls out "REMOVABLE GUARDRAIL; SEE S-SHEETS". This guardrail does not appear to be included in the structural set of plans. Please clarify the requirements for this railing."

    Response: Refer to Addendum 3 for clarification.

26. **Sheet H-2 Comment: "**Can you please confirm the water temps (for HHW and CHW) for the water-source packaged industrial heat pump (11 HP 06)."

    Review: Entering and leaving fluid temperatures for the condenser and evaporator side will be added to the Heat Pump Schedule in Addendum 3.

27. **Specification Section 15050 Comment:** "Please reference specification section 15050. Section 1.4 of spec section 15050 does not list pipe type NPW-P. Please advise if NPW in section 1.4 is NPW-P."

    Response: Refer to Addendum 3 for clarification.

28. **Sheet A11-4 Comment:** "Drawing A11-4 indicates a Section Line A/A11-10 through the TFH Room/ Elec Rm 2/ Scada Rm. Drawing A11-10 does not appear to include this elevation view, Section A. Please include"

    Response: Section cuts have been revised in Addendum 3.

29. **Specification Section 15050 Comment:** "Please reference drawing M2-4 and specification section 15050. Drawing M2-4 calls out for GYL (Glycol) piping. No designation can be found in the pipe materials portion of the specification 15050. Please advise what material type should be used for this fluid type."

    Response: The glycol piping shall be stainless steel. Refer to Addendum 3 for clarification.

SECTION 16460

DRY TYPE TRANSFORMERS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes dry-type distribution and specialty transformers rated 1000 V and less.

1.3 SUBMITTALS

A. General: Submit each item in this Article as described in Section 16010 and Division 1 Specification Sections.

B. Submit transformer information with or after the Electrical System Study Report (ESSR) as specified under Section 16010. Equipment submitted prior to submission of the ESSR will be returned as "Not Reviewed". Transformer equipment shall not be approved or ordered until the ESSR has been reviewed and approved.

C. Product Data: Submit the following:

1. Nameplate ratings
2. Mounting methods
3. Dimensioned plans, sections, elevation views and minimum clearances. Enclosures which will not accept the quantities of conduits as shown on the Contract Plans will be rejected.
4. Lug configuration showing quantities and sizes of conductors the transformer can accept. Lugs or connections for transformers which are not able to accept the quantities and sizes of conductors as shown on the Contract Plans will be rejected.

D. Wiring Diagrams: Submit manufacturer's wiring diagrams and clearly identify terminals for tap changing and connecting field-installed wiring.

E. Field Test Reports: Indicate and interpret test results for compliance with manufacturer's published standards and performance requirements. (see Section 3.3 for further information)

F. Operation and Maintenance Manual: Shall include the following:

1. Maintenance Manuals (specified in Division 1).
2. Electrical System Study Report
3. Field Test Reports
4. Wiring Diagrams

5. Product Data

1.4 QUALITY ASSURANCE

A. Refer to Section 16010 paragraph 1.7.

B. Comply with NFPA 70.

C. Comply with UL 1561 "Standard for Dry-Type General Purpose and Power Transformers".

D. Comply with 10 CFR 429 for labeling and certification to federal standards.

E. Product Selection for Restricted Space: Space for installation of transformers is limited. Contract Document plan drawings indicate typical physical sizes or dimensions for equipment, including clearances between transformers and adjacent surfaces and items. Transformers with larger dimensions may be acceptable, but it is the responsibility of the Contractor to submit detailed drawings showing the required revisions to the structural, process, mechanical, electrical, and other plans to accommodate equipment with larger dimensions. The Contractor shall coordinate the size of the transformers with the available space and shall verify that the proposed equipment is capable of being installed in the available space prior to making a submittal. Equipment of dimensions larger than the available space shall not be submitted, and if submitted, will be rejected. The decision of the Engineer as to the acceptability of equipment with larger dimensions than as shown on the Contract Document plan drawings will be final. If the larger equipment is deemed acceptable, it is the Contractor's responsibility to provide any required revisions to the structural, process, mechanical, electrical, and other designs without additional cost to the Owner.

F. Submit and obtain approval of shop drawings and make approved shop drawings available prior to placement of conduits in slabs to ensure placement is coordinated with transformer access locations from approved shop drawings. Do not place conduits in slabs prior to the receipt of approved shop drawings. Any relocation of conduits that are required because of incorrectly placed conduits prior to receipt of approved shop drawings shall be completed at the Contractor's expense.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Store equipment per requirements of Section 16010 paragraph 1.11.

B. Remove equipment protection only after equipment is safe from hazards such as dirt and moisture and damage from construction operations. Field repair of material or equipment made defective by improper storage or site construction damage by other trades is not acceptable.

C. Temporary Heating: Apply temporary heat according to manufacturer's written instructions within the enclosure of each ventilated-type unit throughout periods during which equipment is not energized and is not in a space that is continuously under normal control of temperature and humidity.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide transformers by one the following:

1. Cutler-Hammer/Eaton Corp.
2. GE Electrical Distribution & Control.
3. Siemens Energy & Automation, Inc.
4. Square D; Groupe Schneider.
5. Tierney Electrical Manufacturing Company

2.2 TRANSFORMERS, GENERAL

A. Description: Factory-assembled and -tested, air-cooled units of types and sizes specified, designed for 60-Hz service.

B. Cores: Grain-oriented, nonaging silicon steel.

C. Coils: Continuous copper windings without splices, except for taps.

D. Internal Coil Connections: Brazed or pressure type.

E. Enclosure: Complies with Section 16050 and NEMA 250 for the environment in which installed. Enclosure conduit entry locations shall be able to accept the quantities and sizes of conduits as shown on the Contract Plans.

F. Lugs or connections for transformers shall be able to accept the quantities and sizes of conductors as shown on the Contract Plans.

2.3 GENERAL-PURPOSE DISTRIBUTION AND POWER TRANSFORMERS

A. Comply with Federal Law 10 CFR Part 431 (DOE 2016), NEMA ST 20 (latest edition) and list and label as complying with 10 CFR 429.

B. Cores: One leg per phase.

C. Windings: One coil per phase in primary and secondary.

D. Insulation Class: 220 deg C class for transformers larger than 15 kVA.

E. Rated Temperature Rise: 80 deg C maximum rise above 40 deg C.

F. Taps: For transformers 3 kVA and larger, full-capacity taps in high-voltage windings are as follows:

1. Taps, 3 through 25 kVA: Two 5-percent taps below rated high voltage.

2. Taps, 25 through 500 kVA: Six 2.5-percent taps, 2 above and 4 below rated high voltage.

G. Wall-Mounting Brackets: Manufacturer's standard brackets for transformers up to 75 kVA.

H. Outdoor transformers shall have epoxy encapsulated windings.

2.4 FINISHES

A. Indoor Units: Manufacturer's standard paint over corrosion-resistant pretreatment and primer.

B. Outdoor Units: Comply with ANSI C57.12.28.

1. Provide stainless steel enclosure and accessories.

2.5 CONTROL AND SIGNAL TRANSFORMERS

A. Units comply with NEMA ST 1 and are listed and labeled as complying with UL 506, “Standard for Specialty Transformers”.

B. Ratings: Continuous duty. If rating is not indicated, provide capacity exceeding peak load by 50 percent minimum.

C. Description: Self-cooled, 2 windings.

2.6 SOURCE QUALITY CONTROL

A. Factory Tests: Design and routine tests comply with referenced standards.

PART 3 EXECUTION

3.1 INSTALLATION

A. Arrange equipment to provide adequate spacing for access and for circulation of cooling air per manufacturer’s recommendations.

B. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B, “Wire Connectors”.

3.2 GROUNDING

A. Comply with Section 16060 and NEC for materials and installation requirements.

3.3 FIELD QUALITY CONTROL

A. Test to ensure transformer is operational within industry and manufacturer's tolerances, is installed according to the Contract Documents, and is suitable for energizing.

B. Report: Submit a written report of observations and tests. Report defective materials and installation.

C. Tests: Perform each visual and mechanical inspection and electrical test stated in NETA ATS, Section 7.2.1.1 for transformers. Certify compliance with test parameters.

1. Inspect accessible components for cleanliness, mechanical and electrical integrity, and damage or deterioration. Verify that temporary shipping bracing has been removed. Include internal inspection through access panels and covers.
2. Inspect bolted electrical connections for tightness according to manufacturer's published torque values or, if not available, those specified in UL 486A and UL 486B, “Wire Connectors”.
3. Insulation Resistance: Perform winding to winding and winding to ground megohmmeter tests of each primary and secondary winding.

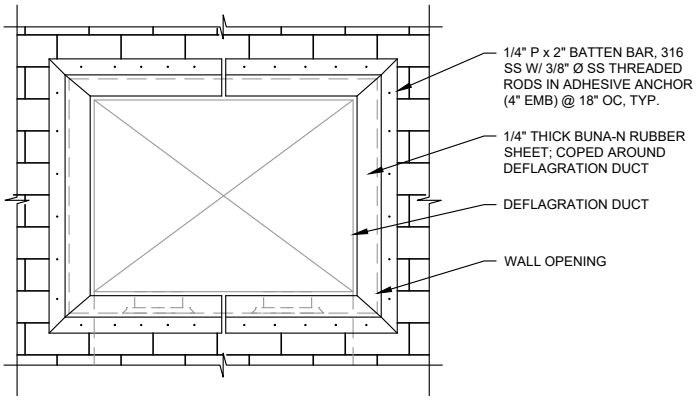
D. Test Failures: Compare test results with specified performance or manufacturer's data. Correct deficiencies identified by tests and retest. Verify that transformers meet specified requirements.

3.4 ADJUSTING

A. Adjust transformer taps to provide optimum voltage conditions at utilization equipment throughout normal operating cycle of facility. Record primary and secondary voltages and tap settings and submit with test results.

B. Adjust buck-boost transformer connections to provide optimum voltage conditions at utilization equipment throughout normal operating cycle of facility.

***** END OF SECTION *****



1 / TYP. **DEFLAGRATION DUCT WALL OPENING DETAIL**

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

0 1" 2"

TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

CITY OF SUMNER

WASTEWATER TREATMENT PLANT
BIOSOLIDS MODERNIZATION

AD-1

REFERENCE SHEET A11-11

Gray & Osborne, Inc.
CONSULTING ENGINEERS

HYDRONIC COIL SCHEDULE

BUILDING	ROOM NAME	UNIT NO.	MANUFACTURER & MODEL NO.	GPM	FACE AREA	AIR PRESSURE DROP	ROW/FPI	NOMINAL CFM	HEATING CAPACITY	COOLING CAPACITY	REMARKS
SOLIDS HANDLING BUILDING	DRYER ROOM	11 HC 01	COIL COMPANY OR EQUAL	25	3'-4" x 3'-4"	0.166	4 / 8.0	4,000	400 MBH	120 MBH	BASED ON 30% PROPYLENE GLYCOL
		11 HC 02	COIL COMPANY OR EQUAL	25	3'-4" x 3'-4"	0.166	4 / 8.0	4,000	400 MBH	120 MBH	BASED ON 30% PROPYLENE GLYCOL
	THERMAL FLUID HEATER ROOM	11 HC 03	COIL COMPANY OR EQUAL	20	2'-8" x 2'-8"	0.205	8 / 14.0	1,200	150 MBH	72 MBH	BASED ON 30% PROPYLENE GLYCOL

0 1" 2"

TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

CITY OF SUMNER

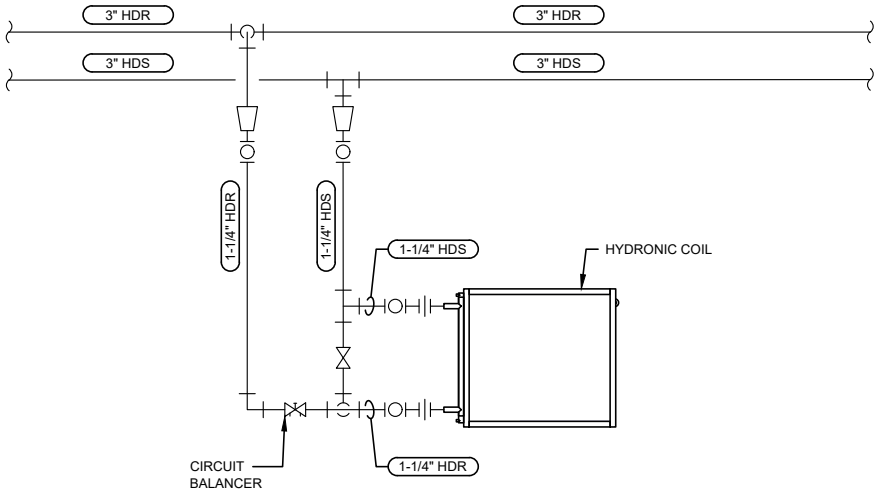
WASTEWATER TREATMENT PLANT
BIOSOLIDS MODERNIZATION

AD-2

REFERENCE SHEET H-3

Gray & Osborne, Inc.
CONSULTING ENGINEERS

M:\Sumner\22446.00 biosolids modernization project\Planset\HVAC\H_SHB_PLN.dwg, 11/4/2025 12:47 PM, WILLIAM GILLARD



4 TYP **TYPICAL HYDRONIC COIL DETAIL**

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

0 1" 2"

TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

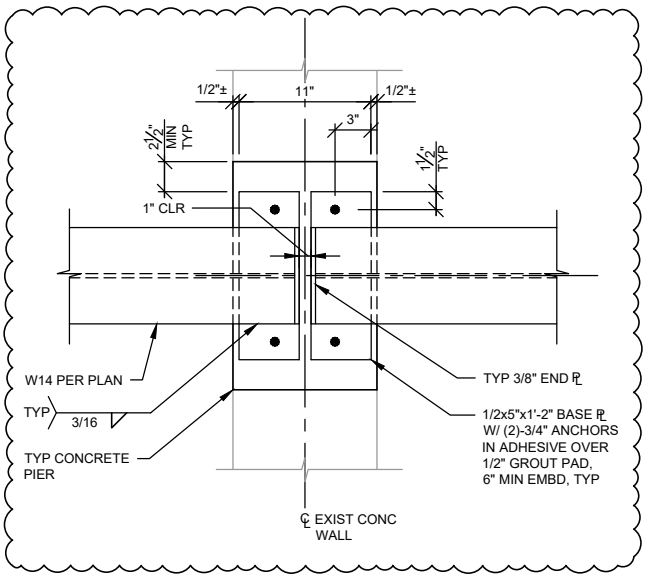
CITY OF SUMNER

WASTEWATER TREATMENT PLANT
BIOSOLIDS MODERNIZATION

AD-3

REFERENCE SHEET P-1

Gray & Osborne, Inc.
CONSULTING ENGINEERS



C / S3-2 **PLAN DETAIL**

SCALE: 3/4"=1'-0"

0 1" 2"

TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

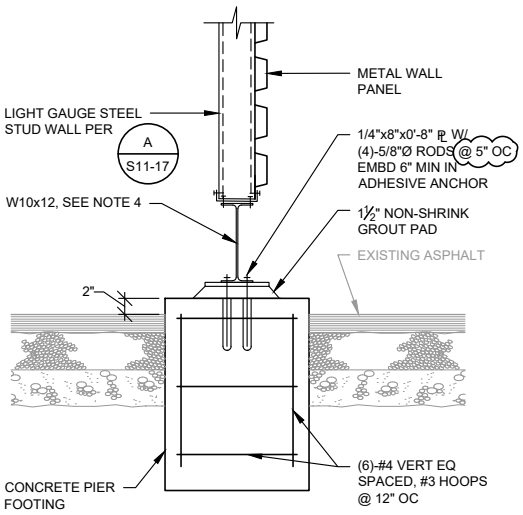
CITY OF SUMNER

WASTEWATER TREATMENT PLANT
BIOSOLIDS MODERNIZATION

AD-4

REFERENCE SHEET S3-3

Gray & Osborne, Inc.
CONSULTING ENGINEERS



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

0 1" 2"

TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

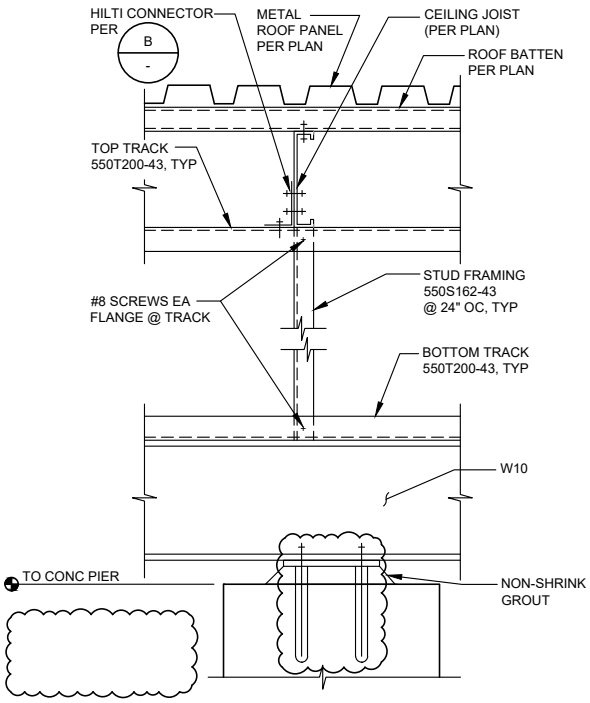
CITY OF SUMNER

WASTEWATER TREATMENT PLANT
BIOSOLIDS MODERNIZATION

AD-5

REFERENCE SHEET S11-3

Gray & Osborne, Inc.
CONSULTING ENGINEERS



A
S11-3

TYP WALL DETAIL

SCALE: 3/4"=1'-0"

0 1" 2"

TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

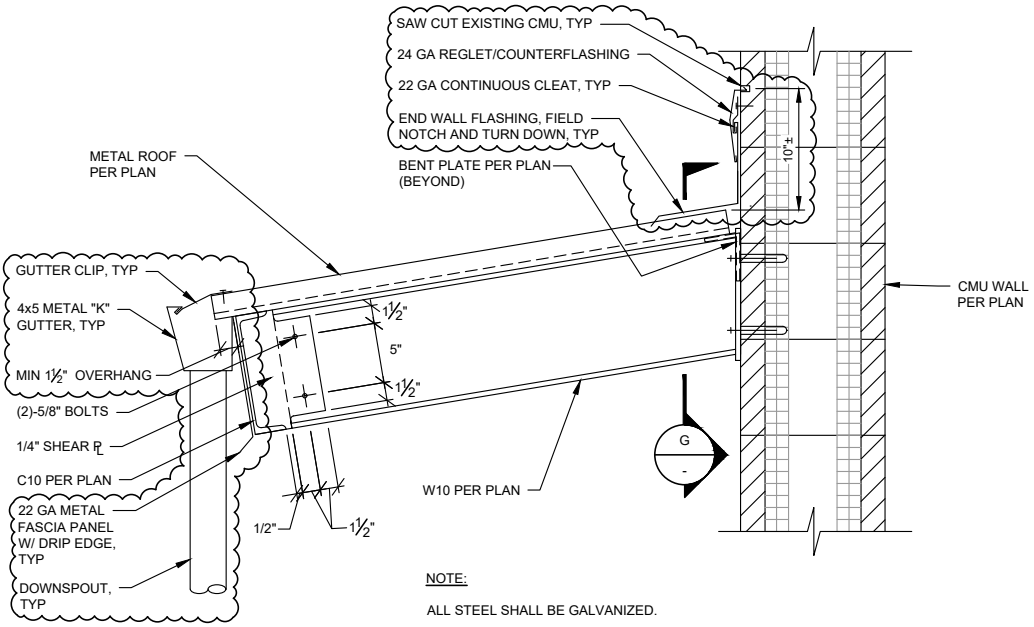
CITY OF SUMNER

WASTEWATER TREATMENT PLANT
BIOSOLIDS MODERNIZATION

AD-6

REFERENCE SHEET S11-17

Gray & Osborne, Inc.
CONSULTING ENGINEERS



NOTE:

ALL STEEL SHALL BE GALVANIZED.

F / S11-17 **SECTION**

SCALE: 3/4"=1'-0"

0 1" 2"

TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

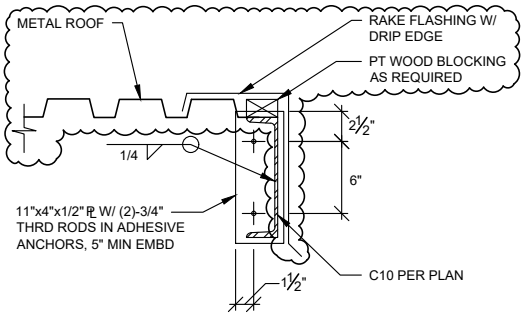
CITY OF SUMNER

WASTEWATER TREATMENT PLANT
BIOSOLIDS MODERNIZATION

AD-7

REFERENCE SHEET S11-17

Gray & Osborne, Inc.
CONSULTING ENGINEERS



H
S11-17

SECTION

SCALE: 3/4"=1'-0"

0 1" 2"

TWO INCHES AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

CITY OF SUMNER

WASTEWATER TREATMENT PLANT
BIOSOLIDS MODERNIZATION

AD-8

REFERENCE SHEET S11-17

Gray & Osborne, Inc.
CONSULTING ENGINEERS

PANELBOARD CIRCUIT SCHEDULE PANEL LPSHB2

SECTION 1 OF 2

CKT. #	LOAD DESCRIPTION	BREAKER TYPE	POLE #	POLE #	BREAKER TYPE	LOAD DESCRIPTION	CKT. #
1	DRYER ROOM LIGHTING	1P-20A	1	2	1P-20A	AUTOMATIC DRIP TRAP 11 ADT 04	2
3	TRUCK BAY LIGHTING	1P-20A	3	4	1P-20A	AUTOMATIC DRIP TRAP 11 ADT 05	4
5	TRUCK SCALE REMOTE INDICATOR	1P-20A	5	6	1P-20A	SOLIDS HANDLING BUILDING PROGRAMMABLE CONTROLLER NO.2	6
7	TRUCK SCALE CONTROLLER	1P-20A	7	8	1P-20A	DRYER SYSTEM CONTROL PANEL	8
9	EAST DRYER ROOM AND LOADING BAY RECEPTACLES	1P-20A	9	10	1P-20A	SECURITY SYSTEM BACKBOARD NO.1	10
11	EAST DRYER ROOM, BATHROOM, AND LOADING BAY RECEPTACLES	1P-20A	11	12	1P-20A	SECURITY SYSTEM BACKBOARD NO.2	12
13	SOUTH THERMAL FLUID HEATER ROOM RECEPTACLES	1P-20A	13	14	1P-20A	WEST DRYER ROOM AND EXTERIOR RECEPTACLES	14
15	NORTH THERMAL FLUID HEATER ROOM AND EXTERIOR RECEPTACLES	1P-20A	15	16	1P-20A	WEST DRYER ROOM RECEPTACLES	16
17	ELECTRICAL ROOM NO.2 AND DRYER ROOM RECEPTACLES	1P-20A	17	18	1P-20A	WASTE GAS BURNER 02 WGB 01	18
19	WASTE GAS BURNER CANOPY LIGHTING AND RECEPTACLE	1P-20A	19	20	1P-20A	AIR DRYER	20
21	STANDBY GENERATOR ALTERNATOR HEATER	1P-20A	21	22	1P-20A	AIR COMPRESSOR DRAIN VALVES	22
23	STANDBY GENERATOR BATTERY CHARGER	1P-20A	23	24	1P-20A	THICKENING POLYMER SYSTEM 11 TPS 01	24
25	STANDBY GENERATOR BLOCK HEATER	2P-20A	25	26	1P-20A	POLYMER SCALE	26
			27	28	1P-20A	THERMAL FLUID ROOM AIR DRYER	28
29	GAS HANDLING SYSTEM CANOPY LIGHTING AND RECEPTACLE	1P-20A	29	30	1P-20A	SUPPLY FAN 11 SF 01 EXHAUST FAN 11 EF 02	30
31	SPARE	2P-35A	31	32	2P-25A	HEAT PUMP 11 HP 03	32
			33	34			
35	SPARE	2P-35A	35	36	2P-25A	HEAT PUMP 11 HP 04	36
			37	38			
39	HEATER 11 HT 01	2P-20A	39	40	2P-25A	HEAT PUMP 11 HP 05	40
			41	42			

PANELBOARD CIRCUIT SCHEDULE PANEL LPSHB2

SECTION 2 OF 2

CKT. #	LOAD DESCRIPTION	BREAKER TYPE	POLE #	POLE #	BREAKER TYPE	LOAD DESCRIPTION	CKT. #
43	MIXING VALVE 11 TCV 01	1P-20A	1	2	1P-20A	GLYCOL FEEDER	44
45	MIXING VALVE 11 TCV 02	1P-20A	3	4		SPARE	46
47	MIXING VALVE 11 TCV 03	1P-20A	5	6		SPARE	48
49	MIXING VALVE 11 TCV 04	1P-20A	7	8		SPARE	50
51	SPARE		9	10		SPARE	52
53	SPARE		11	12		SPARE	54
55	SPARE		13	14		SPARE	56
57	SPARE		15	16		SPARE	58
59	SPARE		17	18		SPARE	60
61	SPARE		19	20		SPACE	62
63	SPACE		21	22		SPACE	64
65	SPACE		23	24		SPACE	66
67	SPACE		25	26		SPACE	68
69	SPACE		27	28		SPACE	70
71	SPACE		29	30		SPACE	72
73	SPACE		31	32		SPACE	74
75	SPACE		33	34		SPACE	76
77	SPACE		35	36		SPACE	78
79	SPACE		37	38		SPACE	80
81	SPACE		39	40		SPACE	82
83	SPACE		41	42		SPACE	84

2

PANELBOARD CIRCUIT SCHEDULE PANEL HPEB3 (MODIFIED)

SECTION 1 OF 1

CKT. #	LOAD DESCRIPTION	BREAKER TYPE	POLE #	POLE #	BREAKER TYPE	LOAD DESCRIPTION	CKT. #	
			1	2				
1	UNIT HEATER 05 HT 02	3P-20A	3	4	3P-20A	SPARE	2	
			5	6				
			7	8				
7	UNIT HEATER 05 HT 03	3P-20A	9	10	3P-20A	UNIT HEATER 05 HT 04	8	
			11	12				
			13	14				
13	TROLLEY HOIST	3P-20A	15	16	3P-20A	ENTRY GATE CONTROL PANEL	14	← NOTE 1
			17	18				
			19	20				
19	TROLLEY HOIST	3P-20A	21	22	3P-20A	ENTRY GATE CONTROL PANEL	20	← NOTE 1
			23	24				
			25	26				
25	TROLLEY HOIST	3P-20A	27	28	3P-50A	SPARE	26	
			29	30				
			31	32				
31	TRANSFORMER "T-LP2EB3"	3P-45A	33	34	3P-70A	TRANSFORMER "T-LP1EB3"	32	
			35	36				
			37	38				
37	TRANSFORMER "T-LPECB"	3P-70A	39	40	3P-70A	TRANSFORMER "T-LPNCB"	38	
			41	42				

2

PANELBOARD CIRCUIT SCHEDULE PANEL LP2EB3

SECTION 1 OF 2

CKT. #	LOAD DESCRIPTION	BREAKER TYPE	POLE #	POLE #	BREAKER TYPE	LOAD DESCRIPTION	CKT. #
1	AERATION BASIN AIR FLOWMETER	1P-20A	1	2	1P-20A	AERATION BASIN DO TRANSMITTER	2
3	AERATION BASIN AIR FLOWMETER	1P-20A	3	4	1P-20A	AERATION BASIN DO TRANSMITTER	4
5	AERATION BASIN AIR FLOWMETER	1P-20A	5	6	1P-20A	AERATION BASIN DO TRANSMITTER	6
7	AERATION BASIN AIR FLOWMETER	1P-20A	7	8	1P-20A	AERATION BASIN DO TRANSMITTER	8
9	AERATION BASIN AIR FLOWMETER	1P-20A	9	10	1P-20A	AERATION BASIN BUTTERFLY VALVE	10
11	AERATION BASIN AIR FLOWMETER	1P-20A	11	12	1P-20A	AERATION BASIN BUTTERFLY VALVE	12
13	AERATION BASIN AIR FLOWMETER	1P-20A	13	14	1P-20A	AERATION BASIN BUTTERFLY VALVE	14
15	AERATION BASIN NO.2 AIR FLOWMETER	1P-20A	15	16	1P-20A	AERATION BASIN BUTTERFLY VALVE	16
17	AERATION BASIN NO.2 AIR FLOWMETER	1P-20A	17	18	1P-20A	AERATION BASIN NO.2 DO TRANSMITTER	18
19	AERATION BASIN NO.2 AIR FLOWMETER	1P-20A	19	20	1P-20A	AERATION BASIN NO.2 DO TRANSMITTER	20
21	AERATION BASIN NO.2 AIR FLOWMETER	1P-20A	21	22	1P-20A	AERATION BASIN NO.2 DO TRANSMITTER	22
23	AERATION BASIN NO.2 AIR FLOWMETER	1P-20A	23	24	1P-20A	AERATION BASIN NO.2 DO TRANSMITTER	24
25	AERATION BASIN NO.2 AIR FLOWMETER	1P-20A	25	26	1P-20A	AERATION BASIN NO.2 BUTTERFLY VALVE	26
27	AERATION BASIN NO.2 AIR FLOWMETER	1P-20A	27	28	1P-20A	AERATION BASIN NO.2 BUTTERFLY VALVE	28
29	BLOWER NO.1 CONTROL PANEL	1P-30A	29	30	1P-20A	AERATION BASIN NO.2 BUTTERFLY VALVE	30
31	BLOWER NO.2 CONTROL PANEL	1P-30A	31	32	1P-20A	AERATION BASIN NO.2 BUTTERFLY VALVE	32
33	BLOWER NO.3 CONTROL PANEL	1P-30A	33	34	1P-20A	SCREEN CONTROL PANEL	34
35	EQUIPMENT BUILDING NO.3 CONTROL PANEL "EB3CP"	1P-20A	35	36	1P-20A	SUMNER INFLUENT PUMP STATION CONTROL PANEL	36
37	AERATION SYSTEM CONTROL PANEL "ASMCP"	1P-30A	37	38	1P-20A	BONNEY LAKE INFLUENT PUMP STATION CONTROL PANEL	38
39	05 HCP 01	1P-20A	39	40	1P-20A	SUMNER INFLUENT FLOW CONTROL PANEL	40
41	MAGNETIC FLOWMETER 05 MFM 01	1P-20A	41	42	1P-20A	BONNEY LAKE INFLUENT FLOW CONTROL PANEL	42

PANELBOARD CIRCUIT SCHEDULE PANEL LP2EB3

SECTION 2 OF 2

CKT. #	LOAD DESCRIPTION	BREAKER TYPE	POLE #	POLE #	BREAKER TYPE	LOAD DESCRIPTION	CKT. #	
43	AERATION BASIN NO. 3 BUTTERFLY VALVE 04 BV 08	1P-20A	1	2	1P-20A	AIR FLOWMETER 05 AFM 01	44	
45	AERATION BASIN NO. 3 BUTTERFLY VALVE 04 BV 09	1P-20A	3	4	1P-20A	BUTTERFLY VALVE 05 BV 01	46	
47	AERATION BASIN NO. 3 BUTTERFLY VALVE 04 BV 10	1P-20A	5	6	1P-20A	AIR FLOWMETER 05 AFM 02	48	
49	AERATION BASIN NO. 3 BUTTERFLY VALVE 04 BV 11	1P-20A	7	8	1P-20A	BIOFILTER HUMIDIFICATION SOLENOID VALVES	50	
51	AERATION BASIN NO. 3 AIR FLOW METER 04 AFM 12	1P-20A	9	10	1P-20A	SPARE	52	
53	AERATION BASIN NO. 3 AIR FLOW METER 04 AFM 13	1P-20A	11	12	1P-20A	SPARE	54	
55	AERATION BASIN NO. 3 AIR FLOW METER 04 AFM 14	1P-20A	13	14	1P-20A	HEADWORKS SAMPLER RECEPTACLE	56	
57	BLOWER NO. 4 CONTROL PANEL	1P-20A	15	16	1P-20A	HEADWORKS SAMPLER RECEPTACLE	58	
59	SPARE	1P-20A	17	18	1P-20A	SOLIDS STORAGE BUILDING LIGHTING	60	
61	SPARE	1P-20A	19	20	**1P-20A**	**ENTRY GATE POLE LIGHT**	62	← NOTE 2
63	SPARE	1P-20A	21	22	1P-20A	SPARE	64	
65	SPARE	1P-20A	23	24	1P-20A	SPARE	66	
67	SPACE		25	26		SPACE	68	
69	SPACE		27	28		SPACE	70	
71	SPACE		29	30		SPACE	72	
73	SPACE		31	32		SPACE	74	
75	SPACE		33	34		SPACE	76	
77	SPACE		35	36		SPACE	78	
79	SPACE		37	38		SPACE	80	
81	SPACE		39	40		SPACE	82	
83	SPACE		41	42		SPACE	84	

2

NOTES:

1. SALVAGE THE EXISTING BREAKER TO THE OWNER. PROVIDE NEW CIRCUIT BREAKER INDICATED.
2. CONNECT NEW CIRCUIT TO EXISTING SPARE BREAKER.

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WASTEWATER TREATMENT PLANT BIOSOLIDS MODERNIZATION
13114 63RD STREET EAST
SUMNER, WA 98390

No.	DATE	REVISION
2	11/4/25	ADDENDUM NO.3

ISSUED FOR:

BID SET

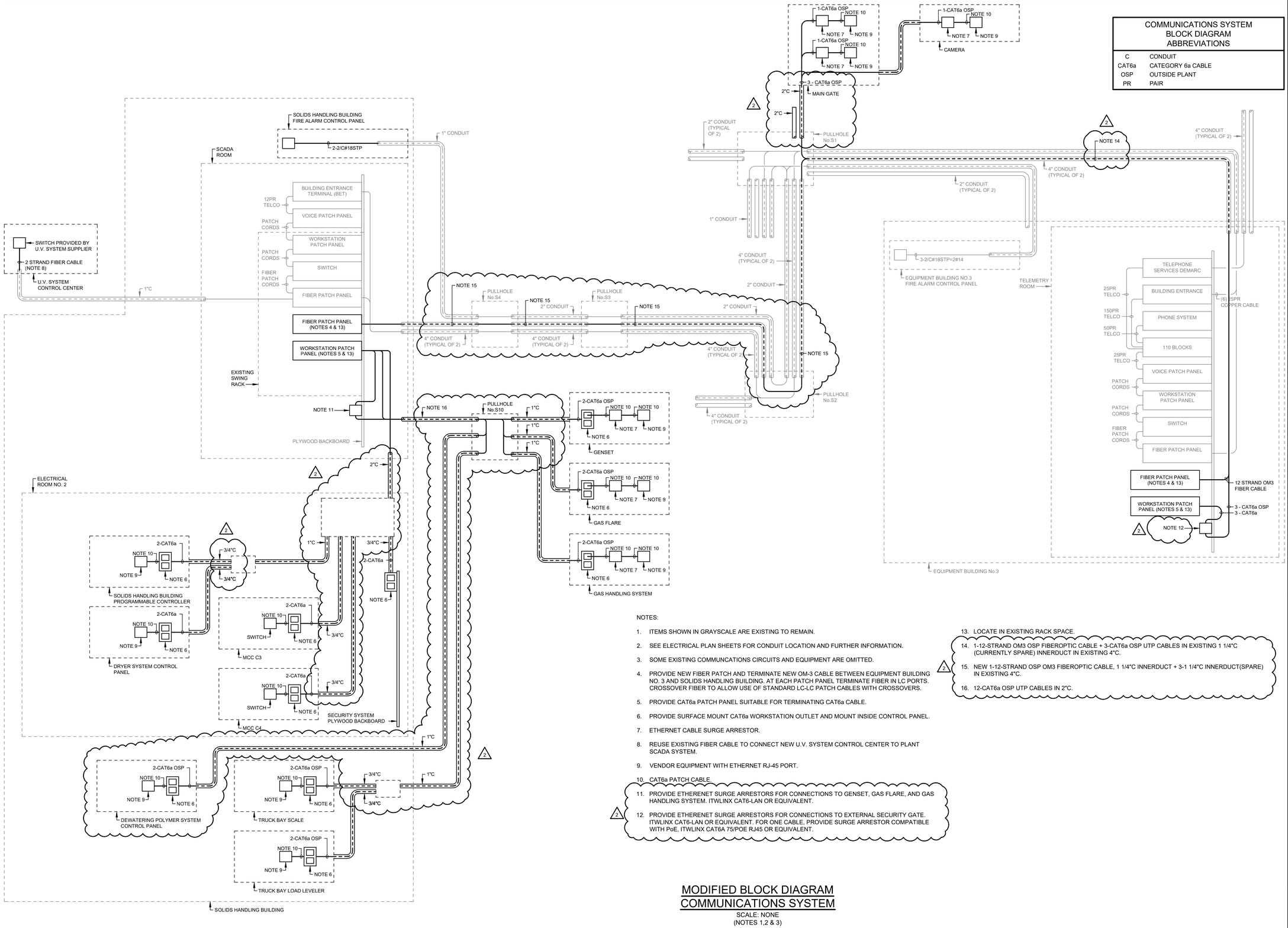
ISSUE DATE:	OCTOBER 2025
APPROVED BY:	THP
CHECKED BY:	JRM
DRAWN BY:	MLO
DESIGNER:	THP
G & O JOB NO.:	22446
FILE:	22446E00-40.DWG

0 1" 2"
TWO INCHES AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

ELECTRICAL

PANELBOARD CIRCUIT SCHEDULES

SHEET: **E-40B**
OF: **45**



COMMUNICATIONS SYSTEM BLOCK DIAGRAM ABBREVIATIONS

C	CONDUIT
CAT6a	CATEGORY 6a CABLE
OSP	OUTSIDE PLANT
PR	PAIR

NOTES:

1. ITEMS SHOWN IN GRAYSCALE ARE EXISTING TO REMAIN.
2. SEE ELECTRICAL PLAN SHEETS FOR CONDUIT LOCATION AND FURTHER INFORMATION.
3. SOME EXISTING COMMUNCATIONS CIRCUITS AND EQUIPMENT ARE OMITTED.
4. PROVIDE NEW FIBER PATCH AND TERMINATE NEW OM-3 CABLE BETWEEN EQUIPMENT BUILDING NO. 3 AND SOLIDS HANDLING BUILDING. AT EACH PATCH PANEL TERMINATE FIBER IN LC PORTS. CROSSOVER FIBER TO ALLOW USE OF STANDARD LC-LC PATCH CABLES WITH CROSSOVERS.
5. PROVIDE CAT6a PATCH PANEL SUITABLE FOR TERMINATING CAT6a CABLE.
6. PROVIDE SURFACE MOUNT CAT6a WORKSTATION OUTLET AND MOUNT INSIDE CONTROL PANEL.
7. ETHERNET CABLE SURGE ARRESTOR.
8. REUSE EXISTING FIBER CABLE TO CONNECT NEW U.V. SYSTEM CONTROL CENTER TO PLANT SCADA SYSTEM.
9. VENDOR EQUIPMENT WITH ETHERNET RJ-45 PORT.
10. CAT6a PATCH CABLE.
11. PROVIDE ETHERENET SURGE ARRESTORS FOR CONNECTIONS TO GENSET, GAS FLARE, AND GAS HANDLING SYSTEM. ITWLINX CAT6-LAN OR EQUIVALENT.
12. PROVIDE ETHERENET SURGE ARRESTORS FOR CONNECTIONS TO EXTERNAL SECURITY GATE. ITWLINX CAT6-LAN OR EQUIVALENT. FOR ONE CABLE, PROVIDE SURGE ARRESTOR COMPATIBLE WITH PoE, ITWLINX CAT6A 75/POE RJ45 OR EQUIVALENT.
13. LOCATE IN EXISTING RACK SPACE.
14. 1-12-STRAND OM3 OSP FIBEROPTIC CABLE + 3-CAT6a OSP UTP CABLES IN EXISTING 1 1/4"C (CURRENTLY SPARE) INNERDUCT IN EXISTING 4"C.
15. NEW 1-12-STRAND OSP OM3 FIBEROPTIC CABLE, 1 1/4"C INNERDUCT + 3-1 1/4"C INNERDUCT(SPARE) IN EXISTING 4"C.
16. 12-CAT6a OSP UTP CABLES IN 2"C.

MODIFIED BLOCK DIAGRAM COMMUNICATIONS SYSTEM

SCALE: NONE
(NOTES 1,2 & 3)

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10-28-25
October 28, 2025

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CITY OF SUMNER WASTEWATER TREATMENT PLANT BIOSOLIDS MODERNIZATION
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SUMNER, WA 98390

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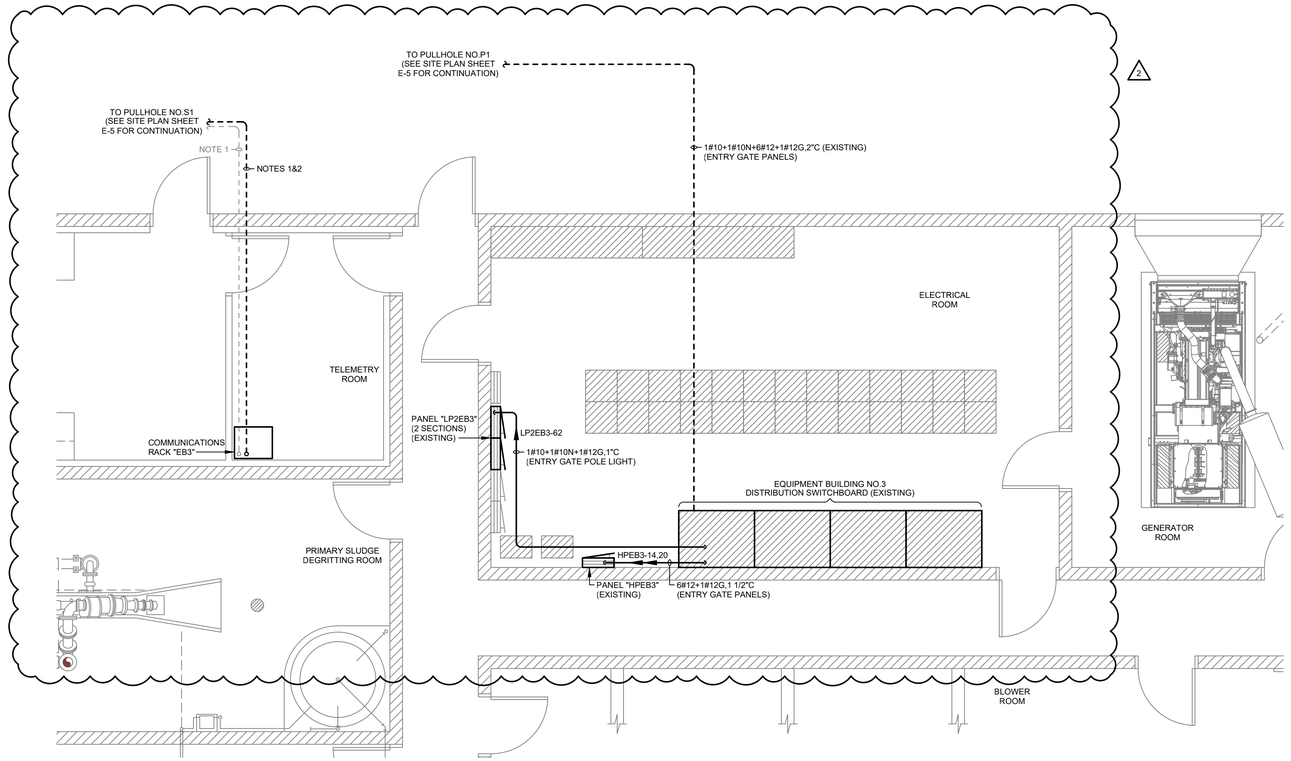
0 1" 2"
TWO INCHES AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

ELECTRICAL

COMMUNICATIONS SYSTEM BLOCK DIAGRAM

SHEET: **E-43**
OF: **45**



MODIFIED POWER PLAN
EQUIPMENT BUILDING NO.3

SCALE: 1/4" = 1'-0"

NOTES:

1. SEE COMMUNICATIONS SYSTEM BLOCK DIAGRAM SHEET E-43 FOR CIRCUIT AND EQUIPMENT INFORMATION.
2. NEW COMMUNICATIONS CABLES ROUTED IN EXISTING INNERDUCT.

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FILE:	22446E05-01.DWG

0 1" 2"
TWO INCHES AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

ELECTRICAL

MODIFIED
ELECTRICAL PLAN
EQUIPMENT
BUILDING NO.3

SHEET: **E5-1**
OF: **1**