Aumsville, Oregon
Wastewater Treatment Plant Improvements
ADDENDUM NO. 1

OWNER: **The City of Aumsville, Oregon**

TO: All Plan Holders

FROM: Westech Engineering, Inc.

DATE: **June 24, 2026**

This Addendum, plus attachments, is an integral part of the contract documents and shall be treated as such. Contractor shall acknowledge receipt of this addendum on the Bid Form.

Copies of the Addendum will be made available through the same on-line plan distribution system as outlined in the Invitation to Bid, and are available for downloading by all bidders. Notice to all parties who obtain bidding documents from the on-line plan distribution system will be via email *(based on the information provided by the bidder when the original bidding documents were downloaded)*.

Each prospective bidder shall be responsible for verifying the number of addendum issued 72 hours prior to bid opening. Failure by the prospective bidders to verify the number of Addendum issued, or failure of the Addendum to be delivered to or downloaded by prospective bidders in a timely manner, shall not be grounds for a bid protest.

1. Pre-Bid Meeting Attendance. The attendance sheet for the non-mandatory pre-bid meeting is attached.

BIDDING REQUIREMENTS

2. Invitation to Bid
   a. The bid date, time and location remain unchanged.

3. Bidders Checklist
   a. There are no prequalification requirements for this project. Qualification information shall be submitted with bids or earlier. Delete item #1 (Prequalification Information) and replace with the following.

   "1. **Bidder Qualification Information**.
      a. Qualification information must be received by Westech Engineering by no later than the bid date. Qualification information may also be submitted with the Bid.
      b. Qualification statements must include all items and information summarized under Article 3 of the Instructions to Bidders.
      c. Faxed or emailed qualification statements are not acceptable."

CONTRACT FORMS
No Change.

CONDITIONS OF THE CONTRACT

2. Supplementary Conditions of the Contract

a. Article SC-6.04. Delete this article entirely. Contractor shall provide Builder's Risk insurance for this project in accordance with General Condition 6.04.A.

b. SC-6.04 Supplement Paragraph 6.04 of the General Conditions with the following provisions:

"F. *Builder's Risk Requirements:* The builder's risk insurance must:

1. be written on a builder's risk "all risk" policy form that at a minimum includes insurance for physical loss or damage to the Work, temporary buildings, falsework, and materials and equipment stored and in transit, and must not exclude the coverage of the following risks: fire; windstorm; hail; flood; earthquake, volcanic activity, and other earth movement; lightning; riot; civil commotion; terrorism; vehicle impact; aircraft; smoke; theft; vandalism and malicious mischief; mechanical breakdown, boiler explosion, and artificially generated electric current; collapse; explosion; debris removal; demolition occasioned by enforcement of Laws and Regulations; and water damage (other than that caused by flood).

a. Such policy will include an exception that results in coverage for ensuing losses from physical damage or loss with respect to any defective workmanship, methods, design, or materials exclusions.

b. If insurance against mechanical breakdown, boiler explosion, and artificially generated electric current; earthquake, volcanic activity, and other earth movement; or flood, are not commercially available under builder's risk policies, by endorsement or otherwise, such insurance will be provided through other insurance policies acceptable to Owner and Contractor.

2. cover, as insured property, at least the following: (a) the Work and all materials, supplies, machinery, apparatus, equipment, fixtures, and other property of a similar nature that are to be incorporated into or used in the preparation, fabrication, construction, erection, or completion of the Work, including Owner-furnished or assigned property; (b) spare parts inventory required within the scope of the Contract; and (c) temporary works which are not intended to form part of the permanent constructed Work but which are intended to provide working access to the Site, or to the Work under construction, or which are intended to provide temporary support for the Work under construction, including scaffolding, form work, fences, shoring, falsework, and temporary structures.

3. cover expenses incurred in the repair or replacement of any insured property (including but not limited to fees and charges of contractors, engineers, and architects).

4. extend to cover damage or loss to insured property while in temporary storage at the Site or in a storage location outside the Site (but not including property stored at the premises of a manufacturer or Supplier). If this coverage is subject to a sublimit, such sublimit will be a minimum of $**1,000,000**.

5. extend to cover damage or loss to insured property while in transit. If this coverage is subject to a sublimit, such sublimit will be a minimum of $**1,000,000**.

6. allow for the waiver of the insurer's subrogation rights, as set forth in this Contract.

7. allow for partial occupancy or use by Owner by endorsement, and without cancellation or lapse of coverage.

8. include performance/hot testing and start-up, if applicable.

9. be maintained in effect until the Work is complete, as set forth in Paragraph 15.06.D of the General Conditions, or until written confirmation of Owner's procurement of property insurance following Substantial Completion, whichever occurs first.

10. include as named insureds the Owner, Contractor, Subcontractors (of every tier), and any other individuals or entities required by this Contract to be insured under such builder's risk policy. For purposes of Paragraphs 6.04, 6.05, and 6.06 of the General Conditions, and this and all other corresponding Supplementary Conditions, the parties required to be insured will be referred to collectively as "insureds." In addition to Owner, Contractor, and Subcontractors of every tier, include as insureds the following:

    a. **Engineer**

11. include, in addition to the Contract Price amount, the value of the following equipment and materials to be installed by the Contractor but furnished by the Owner or third parties:

    a. **None**

12. If debris removal in connection with repair or replacement of insured property is subject to a coverage sublimit, such sublimit will be a minimum of $**500,000**.

G. *Builder's Risk and Other Property Insurance Deductibles: The purchaser of any required builder's risk, installation floater, or other property insurance will be responsible for costs not covered because of the application of a policy deductible.*

1. The builder's risk policy (or if applicable the installation floater) will be subject to a deductible amount of no more than $**50,000** for direct physical loss in any one occurrence."

c. SC-8.02 Delete SC-8.02 and replace with the following:

"SC-8.02 Add the following new Paragraph 8.02.C immediately after Paragraph 8.02.B:

C. Owner intends to contract with others for the performance of other work at or adjacent to the Site. Specifically, the Owner will retain a contractor to remove and dispose of the biosolids in lagoon cell 1 and lagoon cell 2. Therefore, the treatment plant Contractor shall coordinate activities with the biosolids removal contractor. The treatment plant Contractor shall not interfere with the work of the biosolids removal contractor. The areas of the site that will be used by the biosolids removal contractor are shown on Drawing C201. The biosolids contractor will be hauling dewatered biosolids from the plant on a daily basis until the work is completed. The biosolids contractor anticipates approximately 5 truck loads per day of dewatered solids. The treatment plant Contractor shall not block any of the perimeter roads around lagoon cells 1 and 2 and the access roads around the exiting treatment plant buildings until the biosolids removal work is completed. The biosolids removal work should be completed by no later than December 15, 2026."

SPECIFICATIONS

3. Section 02201, Excavation, Fills, and Subgrade Preparation.
   a. Paragraph 3.7.b. Delete this paragraph and replace with the following.

      "b. Except as otherwise allowed herein or by the drawing details or notes, immediately following stripping and excavation work, coordinate with the Owner's Representative to inspected the subgrade. All subgrade shall be inspected by the Geotechnical Engineer prior to rock placement. Subgrades for the various hard surface improvements shown on drawings C209 and C311 shall be compacted as described below. Subgrades for the various structures shall not be disturbed. For bidding purposes, the contractor shall assume that all subgrades shall be proof-rolled with a loaded dump truck. Subgrades for the various hard surface and gravel roadway improvements shown on drawings C209 and C311 shall be compacted to maximum dry density of 95% of AASHTO T-180 test method. If this compaction standard cannot be achieved (or the Contractor chooses not to test the compaction) and the subgrade passes a proof roll test, then the Contractor shall place a separation fabric as specified prior to placement of the rock section. If the Contractor elects to provide the geotextile separation fabric in lieu of compacting the subgrade, the fabric shall be provided at no additional cost to the Owner. If the Contractor elects to compact the subgrade rather than provide the separation fabric, the Contractor shall not be entitled to additional compensation or contract time in order to complete the specified compaction work Disturbed subgrade areas under structures and areas identified for overexcavation will be identified in the field and these areas shall be repaired as described in the geotechnical report."

4. Section 02360, Short Aggregate Piers.
   a. Paragraph 1.3 b. Supplement the list of approved installers by adding the following.
      "5) Condon Johnson & Associates Inc., Oakland CA"

b. Paragraph 1.3.c. Delete this paragraph and replace with the following.

"c. Alternative installers will be considered for review during the submittal process as long as they meet the experience qualifications noted above."

5. Section 11785, Fine Screening Equipment.
   a. Add Paragraph 1.4.a.2.g. as follows.

"g. Seismic calculations for the screen assembly and the anchor bolt connection of the screen assembly to the concrete structure shall be submitted for the specific screen assembly to be provided. Calculations provided by the manufacturer shall be wet stamped by a Professional Engineer licensed in the State of Oregon. The specific size, length & style of anchor bolts *(304 stainless steel)* to be used shall be listed with the calculations."

6. Section 16057, Electrical Systems Analysis.
   a. Paragraph 1.6.a.1. Delete this paragraph and replace with the following.

"1) The study shall comply with the current edition of the Oregon Electrical Specialty Code and NFPA 70E, and Article 702 Optional Standby System."

APPENDIX
No Change.

DRAWINGS

7. Drawing C102, (Lagoon Cell 3 & 4 Improvement Plan).
   a. In the lower left area of the drawing, revise the note pointing to the 2 inch potable water crossing to reference drawing C109 rather than drawing C116.

8. Drawing C205, (SBR Site Cross Section).
   a. Delete this sheet entirely and replace with the revised drawing C205 attached hereto. The drawing has been revised to more accurately depict the concrete slab and baserock locations.

9. Drawing C206, (SBR Site Cross Section).
   a. Delete this sheet entirely and replace with the revised drawing C206 attached hereto. The drawing has been revised to more accurately depict the concrete slab and baserock locations.

10. Drawing C209, (SBR Surfacing Plan).
    a. Delete this sheet entirely and replace with the revised drawing C209 attached hereto. The surfacing limits remain unchanged. The changes to this drawing include a requirement to compact the subgrade for the Heavy Duty Concrete Paving, the Concrete Sidewalk, Asphalt Paving, and the Digout & Reconstruct Gravel sections.

11. Drawing C311, (DAF/CCC Area Surfacing Plan).
    a. Delete this sheet entirely and replace with the revised drawing C311 attached hereto. The surfacing limits remain unchanged. The changes to this drawing include a requirement to compact the subgrade for the Heavy Duty Concrete Paving, the Concrete Sidewalk, Asphalt Paving, and the Digout & Reconstruct Gravel sections.

12. Drawing E006, (Electrical Light Fixture Schedule).
    a. Delete this sheet entirely and replace with the revised drawing E006 attached hereto. Revised PL1 and T4 on Exterior Luminaire Schedule. Revised PH10 on Light Fixture Pole Schedule.

13. Drawing E202, (SBR Power Conduit Schedule).
    a. Delete this sheet entirely and replace with the revised drawing E202 attached hereto. Added P273 & P283 to power conduit schedule.

14. Drawing E204, (SBR Panel Schedules).
    a. Delete this sheet entirely and replace with the revised drawing E204 attached hereto. Removed sheet note #1. Removed sheet keynote #1 from panel schedules. Added circuit #11 to panel LP-2000.

15. Drawing E205, (SBR Building & Basins Electrical Site Plan).
    a. Delete this sheet entirely and replace with the revised drawing E205 attached hereto. Added sheet keynote #4 & #5. Added conduit runs P273 & P283. Added JB-283. Added keynotes for sheet keynote #4 & 5.

16. Drawing E230, (Plant Pump Station).
    a. Delete this sheet entirely and replace with the revised drawing E230 attached hereto. Added PH10 tag to PL1 light fixture.

17. Drawing E304, (DAF Panel Schedules).
    a. Delete this sheet entirely and replace with the revised drawing E304 attached hereto. Removed sheet keynote #1 from sheet.

GENERAL CLARIFICATIONS / MISCELLANEOUS

18. American Iron & Steel *(AIS)* Requirements.
    a. This project is subject to American Iron & Steel *(AIS)* requirements under the provisions of the funding associated with this project.
    b. Requirements under the AIS provisions are summarized in Information for Bidders paragraph 36 and in Spec Section 01610, as well as the DEQ project forms included in the Contract Documents. In addition, wording referencing Section 01610 is also included in various other specification sections where iron & steel products or equipment are specified, to ensure that suppliers are made aware of these requirements during bidding *(ie. to assist in cases where suppliers are putting together bid numbers without having the entire contract manual, and to help ensure that all parties are made aware of the AIS requirements during bidding)*.
    c. These AIS requirements apply whether or not AIS reference language is included in individual specification sections, and it is the responsibility of each bidder to ensure that all suppliers and subcontractors are fully aware of these requirements. Failure to account for the AIS requirements during bidding will not be grounds for a contract change order.
    d. Current De-Minimus Log Required with Each Pay Request. A current copy of the de-minimus tracking log must be submitted by the Contractor with each application for payment.

19. Appendix C: Oregon DEQ NPDES 1200C Permit. Any cut or fill volumes listed in this permit are for permitting purposes only and shall not be relied up by bidders for bidding purposes.

20. Beaver Creek Bridge. The existing bridge over Beaver Creek was inspected in 2023. A summary letter is attached hereto. The bridge was determined to be sufficient to carry all legal loads as described in the attached summary letter.

— End of Body of Addendum *(attachments, if any, after this page)* —

ATTENDANCE SIGN-UP SHEET

Aumsville Wastewater Treatment Plant Improvements

Prebid Meeting

June 23, 2026, 1:00 PM

Name	Representing	Phone Number	Email Address
Christopher J. Brugato	Westech Engineering	503-585-2474	cbrugato@westech-eng.com
JESSEE BOGENUFF	CONDON JOHNSON	503-545-9755	JBOGENUFF@CONDON-JOHNSON.COM
Dick McElligott	JW FOWLER	503.623.5373	estimating@jwfowler.com
Tim Janeswfsky	Slayden	503 269 1032	tim.janeswfsky@mwhconstructors
FRANK RUSCHMANN	NORTHWEST MECH	541-248 0170	mikep@nwmechanical.net
Mark Orr	ORR INC	503-743-1000	bids@orrinc.us
ERIK BRION	STELLAR J	360-903-2035	ERBRION@STELLARJ.COM
Joel Houston	VS Wright	541-671-1809	Joel@VSwestcorp.com
Bob Smith	Coombs Hopkins	541-236-8145	bob@chcwater.com
Shane Hart	K&E	503-507-2622	Shane.hart@Keex.net
STEVE BABCOCK	EC ELECT	541-666-6979	STEVE.babcock@ECPOWERS
Matt Wynne	Wildish	828.974.1955	mattw@wildish.com
Gregory Jones	Rain For Rent	9769716269920	gcjones@rainforrent.com
Vince Makinson	EMERY & SONS	5039315262	bids@emeryandsons.com
Reid Highberger	North Santiam Paving Co.	503-769-3436	Quotes@NSPOR.com
Gordon Lee	JW Fowler	503-730-4101	~~Bids~~ estimating@jwfowler.com
AARON UNGER	KUENZI ELECTRIC	503-873-4908	AARON@KUENZIELECTRICINC.COM
TREVOR SPIRES	HP CIVIL INC.	503-507-9854	ESTIMATING@HPCIVIL.COM
Matt Ekel	Aumsville	503-749-1185	mekel@Aumsville.us
SCOTT MCKINNON	VICTORY ELEC	541-905-3722	SCOTT.MCKINNON@VICTORYELECTRICCOMPANY.COM
Taylor Haworth	Haworth Inc	971-237-5872	Taylor@haworthinc.net
Erick Madera	Last Yard Concrete LLC	(503) 586-6413	erick@Lastyard.org
MIKE PARENT	NORTHWEST MECH	541 248 0170	mikep@nwmechanical.net
Trevor Hunt	Farnham Electric	971-283-6042	Trevor@farnhamelectric.com

Name	Representing	Phone Number	Email Address

Pump Stations | Treatment Plants | Hatcheries | Concrete | Excavation | Fabrications

ORR Inc.
General Contractor
Stan Orr Jr.
Stanjr@orrinc.us
503-509-9381

CCB# 238197 | Office: 503-743-1000 | bids@orrinc.us | PO Box 1228 Turner, OR 97392

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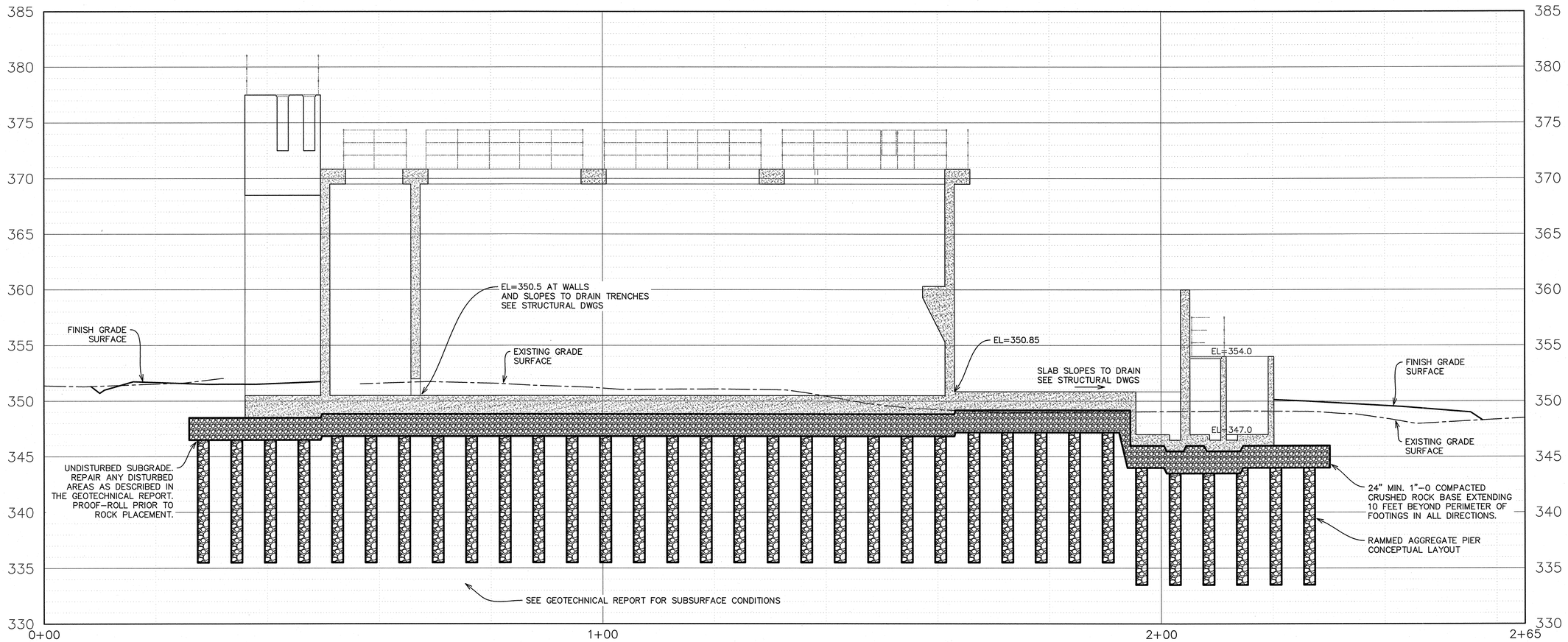
Mike Parent
General Construction Manager

120 SE Jackson Street
Albany, OR 97321
Bus: (541) 967-7094
Cell: (541) 248-0170
Email: mikep@nwmechanical.net
24 hr Service

NOTES:
1. RAMMED AGGREGATE PIER DESIGN SHALL BE PROVIDED BY THE CONTRACTOR AS SPECIFIED. THE LAYOUT SHOWN ON THESE PLANS IS FOR CONCEPTUAL PURPOSES ONLY.
2. SEE SURFACING PLAN FOR SUBGRADE AND BASEROCK REQUIREMENTS OUTSIDE OF STRUCTURE LIMITS.



CROSS SECTION 1 C205
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NO.	DATE	DESCRIPTION	BY
		REVISIONS	
3	6/22/2026	SBR ROCK BASE	TMT

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

DSN. CB
DRN. TN
CKD. CB
DATE: MAY 2026

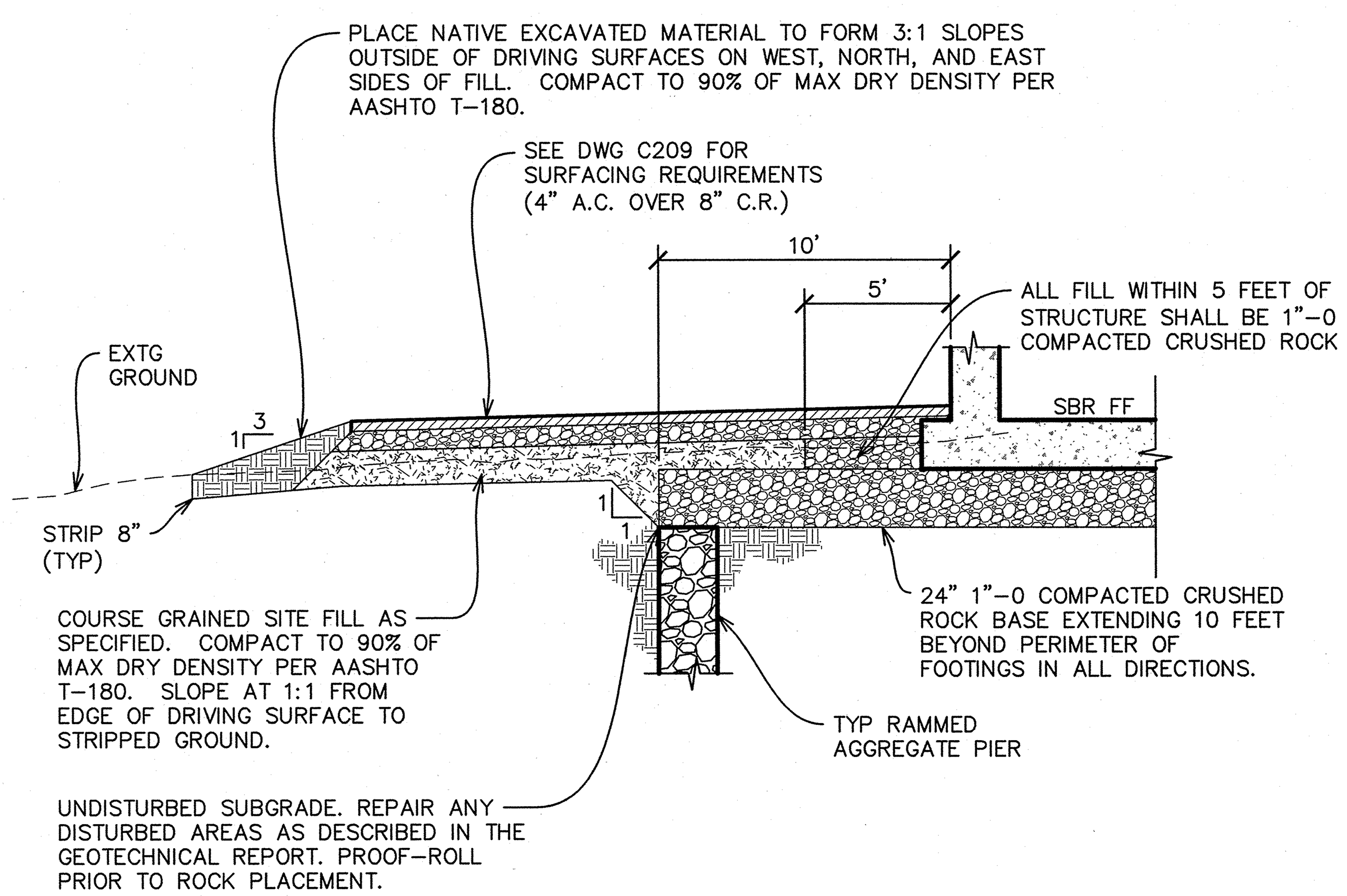
REGISTERED PROFESSIONAL ENGINEER
OREGON
JAN. 14, 2005
CHRISTOPHER J. BRICKATO
86473PE
RENEWS: 12/31/2027

WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS AND PLANNERS
3841 Fairview Industrial Dr. S.E., Suite 100, Salem, OR 97302
Phone: (503) 585-2474 Fax: (503) 585-3986
E-mail: westech@westech-eng.com

CITY OF AUMSVILLE, OREGON
WASTEWATER TREATMENT PLANT IMPROVEMENTS

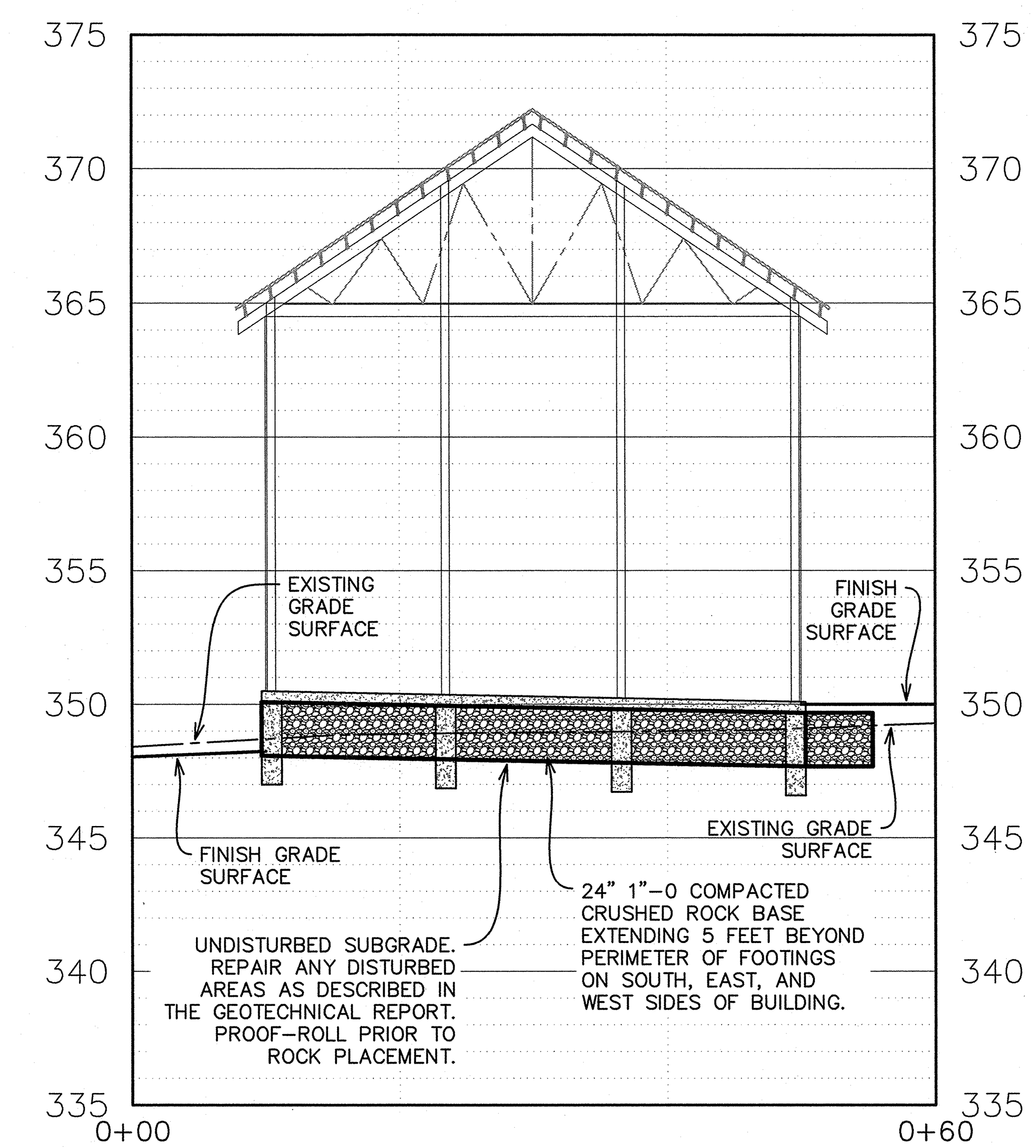
SBR SITE CROSS SECTIONS

DRAWING C205
61 OF 223
JOB NUMBER 2599.3220.0



SBR PERIMETER DETAIL

1" = 5'

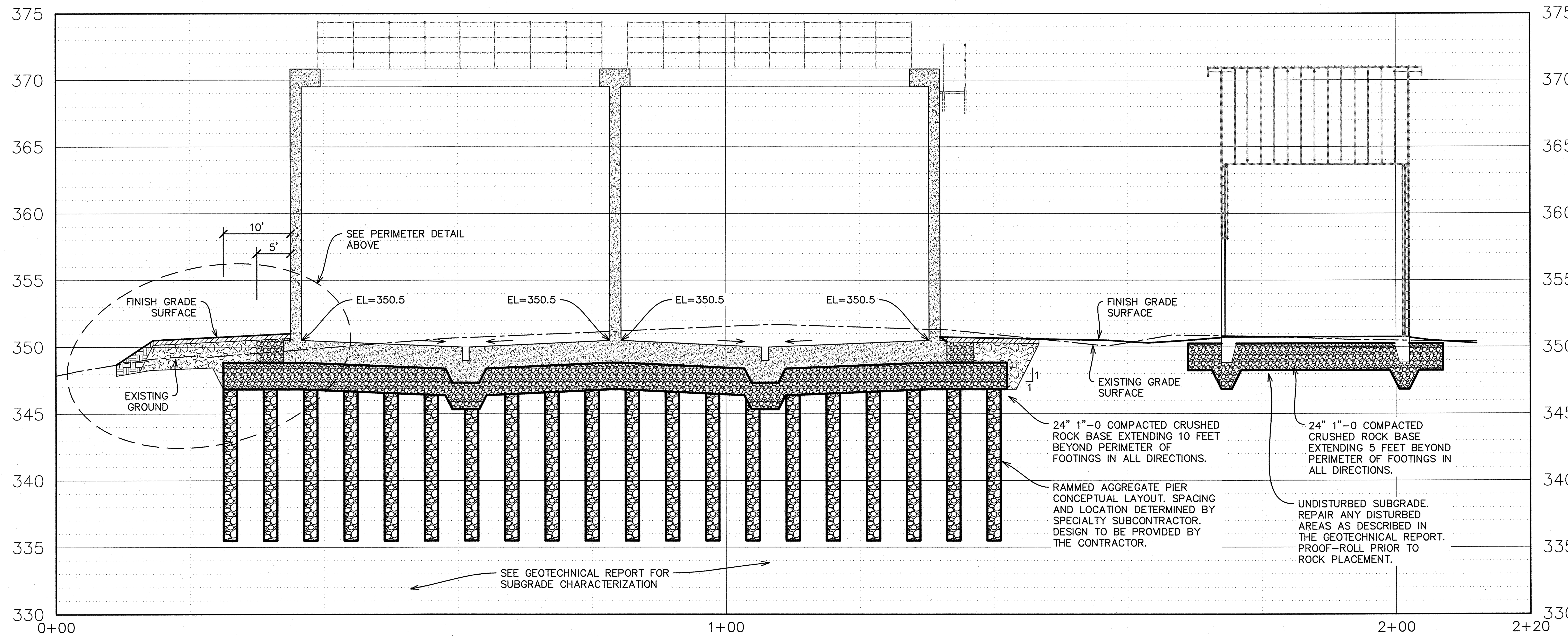


CROSS SECTION 3

HORIZ. 1"=10', VERT. 1"=5' C206

NOTES:

1. RAMMED AGGREGATE PIER DESIGN SHALL BE PROVIDED BY THE CONTRACTOR AS SPECIFIED. THE LAYOUT SHOWN ON THESE PLANS IS FOR CONCEPTUAL PURPOSES ONLY.
2. SEE SURFACING PLAN FOR SUBGRADE AND BASEROCK REQUIREMENTS OUTSIDE OF STRUCTURE LIMITS.



CROSS SECTION 2

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NO.	DATE	DESCRIPTION	BY
3	6/22/2026	SBR ROCK BASE	TMT
		REVISIONS	

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

DSN. CB
DRN. TN
CKD. CB
DATE: MAY 2026

REGISTERED PROFESSIONAL ENGINEER 66473PE OREGON JAN. 14, 2003 CHRISTOPHER J. BRUGATO
RENEWS: 12/31/2027

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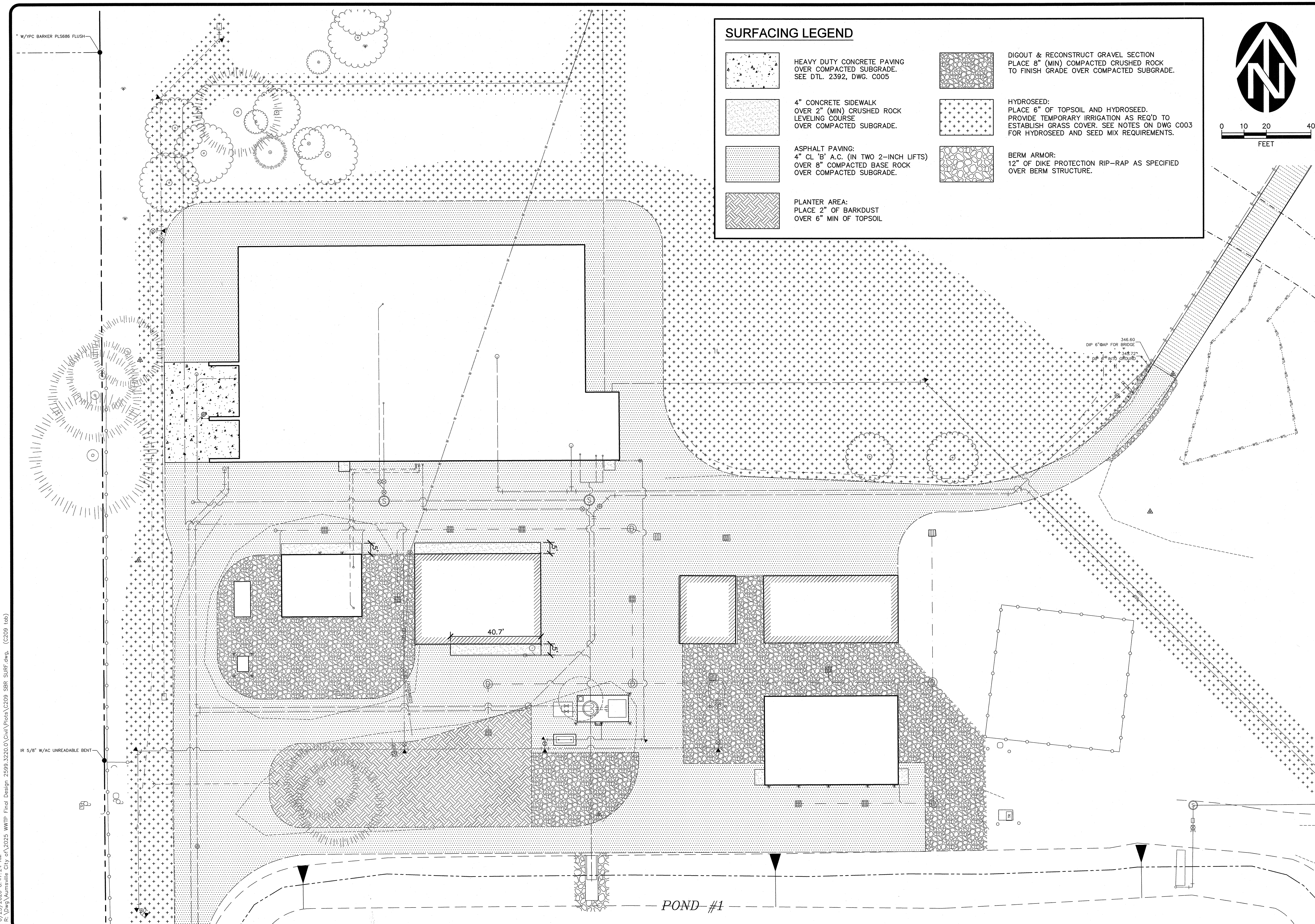
CONSULTING ENGINEERS AND PLANNERS
3841 Fairview Industrial Dr. S.E., Suite 100, Salem, OR 97302
Phone: (503) 585-2474 Fax: (503) 585-3986
E-mail: westech@westech-eng.com

CITY OF AUMSVILLE, OREGON
WASTEWATER TREATMENT PLANT IMPROVEMENTS

SBR SITE CROSS SECTIONS

DRAWING C206
62 OF 223

JOB NUMBER 2599.3220.0



SURFACING LEGEND

- HEAVY DUTY CONCRETE PAVING OVER COMPACTED SUBGRADE. SEE DTL. 2392, DWG. C005
- 4" CONCRETE SIDEWALK OVER 2" (MIN) CRUSHED ROCK LEVELING COURSE OVER COMPACTED SUBGRADE.
- ASPHALT PAVING: 4" CL 'B' A.C. (IN TWO 2-INCH LIFTS) OVER 8" COMPACTED BASE ROCK OVER COMPACTED SUBGRADE.
- PLANTER AREA: PLACE 2" OF BARKDUST OVER 6" MIN OF TOPSOIL
- DIGOUT & RECONSTRUCT GRAVEL SECTION PLACE 8" (MIN) COMPACTED CRUSHED ROCK TO FINISH GRADE OVER COMPACTED SUBGRADE.
- HYDROSEED: PLACE 6" OF TOPSOIL AND HYDROSEED. PROVIDE TEMPORARY IRRIGATION AS REQ'D TO ESTABLISH GRASS COVER. SEE NOTES ON DWG C003 FOR HYDROSEED AND SEED MIX REQUIREMENTS.
- BERM ARMOR: 12" OF DIKE PROTECTION RIP-RAP AS SPECIFIED OVER BERM STRUCTURE.

NO.	DATE	DESCRIPTION	BY
3	6/22/2026	SURFACING SUBGRADE	TMT

REVISIONS

VERIFY SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DSN. CB
DRN. TMT/TN
CKD. CB
DATE: MAY 2026

REGISTERED PROFESSIONAL ENGINEER 56473PE OREGON JAN. 14, 2003 CHRISTOPHER J. BRUGATO
RENEWS: 12/31/2027

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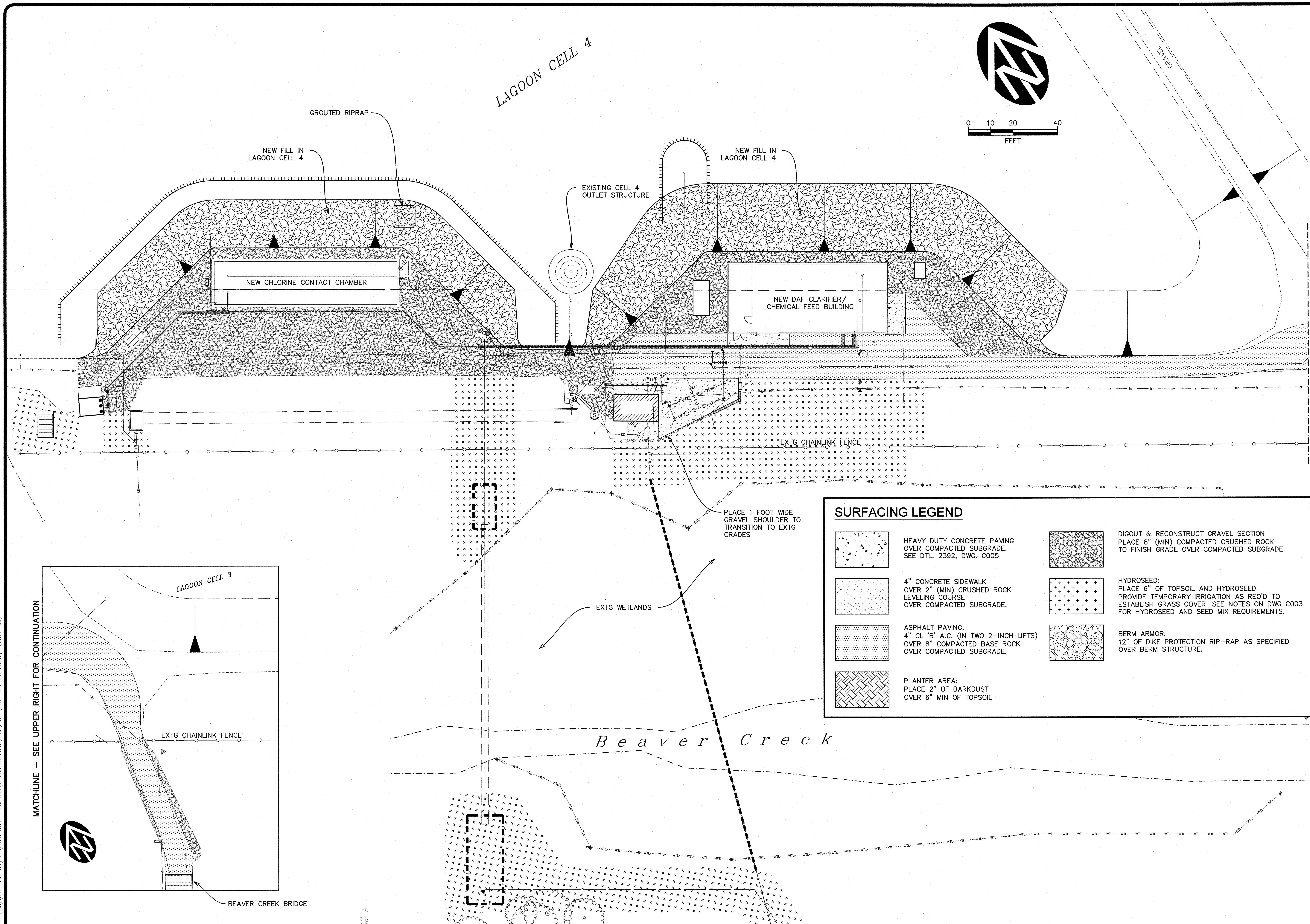
CITY OF AUMSVILLE, OREGON
WASTEWATER TREATMENT PLANT IMPROVEMENTS

SBR SURFACING PLAN

DRAWING C209
65 223

JOB NUMBER 2599.3220.0



SURFACING LEGEND

Symbol	Description
Heavy duty concrete paving	HEAVY DUTY CONCRETE PAVING OVER COMPACTED SUBGRADE. SEE DTL. 2392, DWG. C005
Concrete sidewalk	4" CONCRETE SIDEWALK OVER 2" (MIN) CRUSHED ROCK LEVELING COURSE OVER COMPACTED SUBGRADE.
Asphalt paving	ASPHALT PAVING: 4" CL 'B' A.C. (IN TWO 2-INCH LIFTS) OVER 8" COMPACTED BASE ROCK OVER COMPACTED SUBGRADE.
Planter area	PLANTER AREA: PLACE 2" OF BARKDUST OVER 6" MIN OF TOPSOIL
Digout & reconstruct gravel section	DIGOUT & RECONSTRUCT GRAVEL SECTION PLACE 8" (MIN) COMPACTED CRUSHED ROCK TO FINISH GRADE OVER COMPACTED SUBGRADE.
Hydroseed	HYDROSEED: PLACE 6" OF TOPSOIL AND HYDROSEED. PROVIDE TEMPORARY IRRIGATION AS REQ'D TO ESTABLISH GRASS COVER. SEE NOTES ON DWG C003 FOR HYDROSEED AND SEED MIX REQUIREMENTS.
Berm armor	BERM ARMOR: 12" OF DIKE PROTECTION RIP-RAP AS SPECIFIED OVER BERM STRUCTURE.

NO.	DATE	DESCRIPTION	BY
3	6/22/2026	SURFACING SUBGRADE	TMT

REVISIONS

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0 1"
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DSN. CB
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REGISTERED PROFESSIONAL ENGINEER
86473PE
OREGON
JAN. 14, 2020
CHRISTOPHER J. BRUGATO
RENEWS: 12/31/2027

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E-mail: westech@westech-eng.com

CITY OF AUMSVILLE, OREGON
WASTEWATER TREATMENT PLANT IMPROVEMENTS

DAF / CCC AREA SURFACING PLAN

DRAWING
C311
75 223

JOB NUMBER
2599.3220.0

6/23/2026 8:48:44 AM
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INTERIOR LUMINAIRE SCHEDULE

FIXTURE NO.	DESCRIPTION	LAMP TYPE	LUMEN OUTPUT	CRI	COLOR TEMP.	DRIVER	EMERGENCY DRIVER	INTEGRAL MOTION/PHOTO SENSOR	VOLTS	LOAD	MANUFACTURER	MODEL NUMBER
V4	CHAIN MOUNTED 48" x 7" x 6" VAPOR TIGHT LUMINAIRE WITH FIBERGLASS HOUSING, GASKETED FROSTED POLYCARBONATE LENS, STAINLESS STEEL LATCHES, AND WET LOCATION LISTED AND LABEL. PROVIDE 72" CHAIN MOUNT KIT AND BRACKETS.	LED	6,200 LM	80	4000K	STANDARD 0-10V	NO	NO	UNV	49 WATT	LITHONIA	VAP LED
V42	CHAIN MOUNTED 48" x 7" x 6" VAPOR TIGHT LUMINAIRE WITH FIBERGLASS HOUSING, GASKETED FROSTED POLYCARBONATE LENS, STAINLESS STEEL LATCHES, AND WET LOCATION LISTED AND LABEL. PROVIDE 72" CHAIN MOUNT KIT AND BRACKETS.	LED	12,000 LM	80	4000K	STANDARD 0-10V	NO	NO	UNV	99 WATT	LITHONIA	VAP LED
V4E	CHAIN MOUNTED 48" x 7" x 6" VAPOR TIGHT LUMINAIRE WITH FIBERGLASS HOUSING, GASKETED FROSTED POLYCARBONATE LENS, EMERGENCY BATTERY PACK (15W) CONSTANT POWER, STAINLESS STEEL LATCHES, AND WET LOCATION LISTED AND LABEL. PROVIDE 72" CHAIN MOUNT KIT AND BRACKETS.	LED	6,200 LM	80	4000K	STANDARD 0-10V	YES 15-WATT	NO	UNV	49 WATT	LITHONIA	VAP LED

EXTERIOR LUMINAIRE SCHEDULE

FIXTURE NO.	DESCRIPTION	LAMP TYPE	LUMENS	CRI	COLOR TEMP.	DRIVER	EMERGENCY DRIVER	INTEGRAL MOTION/PHOTO SENSOR	VOLTS	LOAD	MANUFACTURER	MODEL NUMBER
PL1	27"L X 8"W X 4"H SITE LUMINAIRE WITH RUGGED DIE-CAST ALUMINUM HOUSING, SINGLE HEAD, TYPE IV DISTRIBUTION, 0-10V DIMMING DRIVER, AND BLACK FINISH, FINISH SHALL BE RATED FOR 3,000 HOUR SALT SPRAY TEST. PROVIDE WITH 8" MINIMUM MOUNTING ARM FOR SQUARE POLE.	LED	10,050 LM	70	5000K	STANDARD 0-10V	NO	NO	UNV	69 WATTS	AMERICAN ELECTRIC LIGHTING	AUTOBAHN SERIES ATB0
T2	16.75"L X 11.25"W X 4"H SITE LUMINAIRE WITH DIE-CAST ALUMINUM HOUSING, SINGLE HEAD, TYPE II DISTRIBUTION, INTEGRAL SURGE PROTECTION, 0-10V DIMMING DRIVER, AND BLACK FINISH. FINISH SHALL BE RATED FOR 3,000 HOUR SALT SPRAY TEST. 1 PROVIDE 2-3/8" ADJUSTABLE KNUCKLE MOUNTING OPTION.	LED	7,500 LM	70	4000K	STANDARD 0-10V	NO	NO	UNV	50 WATTS	HUBBEL BEACON	SMALL VIPER
T4	16.75"L X 11.25"W X 4"H SITE LUMINAIRE WITH DIE-CAST ALUMINUM HOUSING, SINGLE HEAD, TYPE IV FORWARD THROW DISTRIBUTION, INTEGRAL SURGE PROTECTION, 0-10V DIMMING DRIVER, AND BLACK FINISH. FINISH SHALL BE RATED FOR 3,000 HOUR SALT SPRAY TEST. PROVIDE 2-3/8" ADJUSTABLE KNUCKLE MOUNTING OPTION.	LED	7,500 LM	70	4000K	STANDARD 0-10V	NO	NO	UNV	50 WATTS	HUBBEL BEACON	SMALL VIPER
WD1	EXTERIOR WALL MOUNTED 5.5"L x 9"W x 8"H RECTILINEAR LUMINAIRE WITH SINGLE PIECE DIE-CAST ALUMINUM HOUSING. WIDE DISTRIBUTION, INTEGRAL PHOTOCELL, 4W EMERGENCY BATTERY BACKUP, WET LOCATION LISTED, AND IP66 RATED LUMINAIRE. EXTERIOR PARTS SHALL BE PROTECTED BY A ZINC-INFUSED SUPER DURABLE TGIC THERMOSET POWDER COAT FINISH MINIMUM 3 MILS THICK. FINISH SHALL BE BLACK. WHEN MOUNTED ON SPLIT FACE BLOCK CONTRACTOR SHALL SEAL AROUND ANY OPENING BETWEEN ELECTRICAL BOX AND LUMINAIRE WITH A SILICONE SEALANT WHICH MATCHES THE COLOR OF THE BLOCK. WHEN MOUNTED ON METAL SIDING CONTRACTOR SHALL MOUNT ELECTRICAL BOX ON FLAT PART OF THE SIDING AND BOX SHALL EXTEND BEYOND SIDING A DISTANCE EQUAL TO THE RIBBING ON THE SIDING SO THE LUMINAIRE SEALS PROPERLY AGAINST THE BOX. CONTRACTOR SHALL PROVIDE SILICONE SEALANT AROUND OPENING IN SIDING & ELECTRICAL BOX FOR PROPER SEALING.	LED	1,200 LM	80	4000K	STANDARD 0-10V	YES	YES	UNV	10 WATTS	LITHONIA	WDGE1 LED SERIES
W3	EXTERIOR WALL MOUNTED 8"L x 18"W x 9"H RECTILINEAR LUMINAIRE WITH SINGLE PIECE DIE-CAST ALUMINUM HOUSING. FORWARD THROW DISTRIBUTION, INTEGRAL PHOTOCELL, WET LOCATION LISTED, AND IP65 RATED LUMINAIRE. EXTERIOR PARTS SHALL BE PROTECTED BY A ZINC-INFUSED SUPER DURABLE TGIC THERMOSET POWDER COAT FINISH MINIMUM 3 MILS THICK. FINISH SHALL BE BLACK. PROVIDE WITH NLIGHT AIR INTEGRAL WIRELESS CONTROLLER. SENSOR SHALL BE INSTALLED RECESSED IN THE HOUSING AND NOT EXTERNALLY MOUNTED. WHEN MOUNTED ON SPLIT FACE BLOCK CONTRACTOR SHALL SEAL AROUND ANY OPENING BETWEEN ELECTRICAL BOX AND LUMINAIRE WITH A SILICONE SEALANT WHICH MATCHES THE COLOR OF THE BLOCK. WHEN MOUNTED ON METAL SIDING CONTRACTOR SHALL MOUNT ELECTRICAL BOX ON FLAT PART OF THE SIDING AND BOX SHALL EXTEND BEYOND SIDING A DISTANCE EQUAL TO THE RIBBING ON THE SIDING SO THE LUMINAIRE SEALS PROPERLY AGAINST THE BOX. CONTRACTOR SHALL PROVIDE SILICONE SEALANT AROUND OPENING IN SIDING & ELECTRICAL BOX FOR PROPER SEALING.	LED	6,985 LM	70	4000K	STANDARD 0-10V	NO	YES	UNV	52 WATTS	LITHONIA	WDGE3 LED SERIES
W3	SAME AS W3 EXCEPT WITH BATTERY BACKUP.	LED	6,985 LM	70	4000K	STANDARD 0-10V	YES (15-WATTS)	YES	UNV	52 WATTS	LITHONIA	WDGE3 LED SERIES

LIGHT FIXTURE POLE SCHEDULE

FIXTURE NO.	DESCRIPTION	HEIGHT	MOUNTING	MFR.	POLE MODEL	ACCESSORIES
PH10	1 4" x 4" SQUARE 11-GAUGE (0.120") HOT-ROLLED COMMERCIAL STEEL POLE. REINFORCED HANDHOLE 18" FROM THE BASE WITH STEEL COVER. MINIMUM 3-MILS OF ZINC-INFUSED TGIC POWDER COAT FINISH FOR COROSSION RESISTANCE. FINISH SHALL BE BLACK. DRILL MOUNTING FOR 1 FIXTURE AT 90-DEGREES.	10' - 0"	POLE BASE	LITHONIA	SSS SERIES	-
P10	1-1/2" DIAMETER ROUND HOT DIPPED GALVANIZED COLLAPSIBLE STEEL POLE. SWIVEL JOINT SHALL BE LOCATED AT 3'-11" ABOVE THE BOTTOM OF THE POLE. TOP AND BOTTOM OF POLE SHALL BE THREADED NPS. POLE SHALL BE PROVIDED WITH 3/4" CONDUIT KNOCKOUTS. CONTRACTOR SHALL PROVIDING ANCHOR BOLTS. CONTRACTOR SHALL VERIFY ANCHOR BASE BOLT PATTERN WITH MANUFACTURER.	10' - 0"	STRUCTURE MOUNTED TO CONCRETE SLAB (INDEPENDENT OF HAND RAIL)	SWIVEL POLE	ST4 SERIES	1-1/2" TO 2" SLIP-ON ADAPTER: LMK8401

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT	TAG	SHEET REF	ELECTRICAL								CONDUIT		CONDUCTORS			PANEL	CIRCUIT	LOCAL DISCONNECT	DISCONNECT RATING	NOTES
			VOLTAGE	PHASE	MCA	MOCP	HP	WATTS	FLA	FLA @ 125%	QTY	SIZE	UNGROUNDED	GROUNDED	GROUNDING					
DAF UNIT HEATER	UH-1	E307	208	1	-	-	-	7,500	-	-	1	1.0 INCH	2 - #6	-	1 - #10	LP-3000	5,7	-	-	-
DAF UNIT HEATER	UH-2	E307	208	1	-	-	-	7,500	-	-	1	1.0 INCH	2 - #6	-	1 - #10	LP-3000	9,11	-	-	-
DAF UNIT HEATER	UH-3	E307	208	1	-	-	-	7,500	-	-	1	1.0 INCH	2 - #6	-	1 - #10	LP-3000	6,8	-	-	-
DAF UNIT HEATER	UH-4	E307	208	1	-	-	-	7,500	-	-	1	1.0 INCH	2 - #6	-	1 - #10	LP-3000	10,12	-	-	-
DAF EXHAUST FAN	EF-1	E307	120	1	12.5	20	-	-	-	-	1	0.75 INCH	1 - #12	1 - #12	1 - #12	LP-3000	13	-	-	-
DAF OUTDOOR AIR CONDITIONER	OAC-1	E307	208	1	16.3	20	-	-	-	-	1	0.75 INCH	2 - #12	-	1 - #12	LP-3000	14,16	-	-	-
DAF INDOOR CONDITIONER	IAC-1	E307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
BLOWER OUTDOOR AIR CONDITIONER	OAC-2	E206	208	1	16.3	20	-	-	-	-	1	0.75 INCH	2 - #12	-	1 - #12	LP-2000	7,9	-	-	-
BLOWER INDOOR AIR CONDITIONER	IAC-2	E206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

NOTES:
[1] FEED THROUGH OAC UNIT.

NO.	DATE	DESCRIPTION	BY
1	06/23/26	ADDENDUM #1	

REVISIONS

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

DSN. DSN
DRN. DRWN
CKD. CHCK
DATE: JUN 2026

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REGISTERED PROFESSIONAL ENGINEER
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OREGON
MAY 08, 2012
BENJAMIN E. PERRY
EXPIRES: 12-31-2026

WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS AND PLANNERS
3841 Fairview Industrial Dr. S.E., Suite 100, Salem, OR 97302
Phone: (503) 585-2474 Fax: (503) 585-3986
E-mail: westech@westech-eng.com

CITY OF AUMSVILLE, OREGON
WASTEWATER TREATMENT PLANT IMPROVEMENTS

ELECTRICAL LIGHT FIXTURE SCHEDULE

DRAWING
E006
158 OF 223

JOB NUMBER
2599.3220.0

SBR POWER CONDUIT / CONDUCTOR SCHEDULE

CONDUIT ID NO.	CONDUIT		CONDUCTORS PER CONDUIT					FROM	TO	DESCRIPTION	NOTES
	QUANTITY	SIZE	UNGROUNDED	GROUNDED	GROUNDING	CABLE	SPARE				
P200	1	6.0 INCH	-	-	-	-	-	EXISTING UTILITY POLE #244002	NEW UTILITY PAD-MOUNTED TRANSFORMER	INSTALL CONDUIT PER PP&L REQUIREMENTS.	1
P201	3	4.0 INCH	-	-	-	-	-	NEW UTILITY PAD-MOUNTED TRANSFORMER	UTILITY CT CAN	INSTALL CONDUIT PER PP&L REQUIREMENTS.	1
P201A	1	1.25 INCH	-	-	-	-	-	UTILITY CT CAN	UTILITY METER	INSTALL CONDUIT PER PP&L REQUIREMENTS.	1
P202	3	2.5 INCH	3 - #3/0	1 - #3/0	-	-	-	UTILITY CT CAN	MAIN SERVICE DISCONNECT (MSD-2000)	-	-
P203	3	2.5 INCH	3 - #3/0	-	1 - #1	-	-	MAIN SERVICE DISCONNECT (MSD-2000)	AUTOMATIC TRANSFER SWITCH (ATS-2000)	-	-
P204	3	2.5 INCH	3 - #3/0	-	1 - #1	-	-	AUTOMATIC TRANSFER SWITCH (ATS-2000)	GENERATOR SET (GEN-2000)	-	-
P205	3	2.5 INCH	3 - #3/0	-	1 - #1	-	-	AUTOMATIC TRANSFER SWITCH (ATS-2000)	MCC-2000	-	-
P210	1	0.75 INCH	3 - #14	-	1 - #18	VFD	-	MCC-2000	DISCONNECT SWITCH DEC-2240	PROVIDE VFD CABLE (16121.V01)	2
P211	1	1.0 INCH	-	-	-	1 - MSC	-	DISCONNECT SWITCH DEC-2240	BASIN DECANTER NO. 1 DEC-2240	MANUFACTURER SUPPLIED CABLE, PROVIDE FLEX CONDUIT AS NEEDED.	-
P212	1	0.75 INCH	3 - #14	-	1 - #18	VFD	-	MCC-2000	DISCONNECT SWITCH DEC-2440	PROVIDE VFD CABLE (16121.V01)	2
P213	1	1.0 INCH	-	-	-	1 - MSC	-	DISCONNECT SWITCH DEC-2440	BASIN DECANTER NO. 2 DEC-2440	MANUFACTURER SUPPLIED CABLE, PROVIDE FLEX CONDUIT AS NEEDED.	-
P214	1	1.5 INCH	3 - #6	-	3 - #12	VFD	-	MCC-2000	SBR BLOWER NO.1 BL-2110	PROVIDE VFD CABLE (16121.V01), ROUTE VIA FUSED DISCONNECT SWITCH	-
P215	1	1.5 INCH	3 - #6	-	3 - #12	VFD	-	MCC-2000	SBR BLOWER NO.2 BL-2120	PROVIDE VFD CABLE (16121.V01), ROUTE VIA FUSED DISCONNECT SWITCH	-
P216	1	1.5 INCH	3 - #6	-	1 - #6	VFD	-	MCC-2000	SBR BLOWER NO.3 BL-2130	PROVIDE VFD CABLE (16121.V01), ROUTE VIA FUSED DISCONNECT SWITCH	-
P217	1	0.75 INCH	3 - #12	-	1 - #12	-	-	MCC-2000	DISCONNECT SWITCH P-2220	-	2
P218	1	-	-	-	-	1 - MSC	-	DISCONNECT SWITCH P-2220	BASIN 1 WAS PUMP P-2220	-	3, 4
P219	1	0.75 INCH	3 - #12	-	1 - #12	-	-	MCC-2000	DISCONNECT SWITCH P-2420	-	2
P220	1	-	-	-	-	1 - MSC	-	DISCONNECT SWITCH P-2420	BASIN 2 WAS PUMP P-2420	-	3, 4
P221	1	0.75 INCH	3 - #10	-	1 - #10	-	-	MCC-2000	DISCONNECT SWITCH MX-2230	-	2
P222	1	-	-	-	-	1 - MSC	-	DISCONNECT SWITCH MX-2230	BASIN 1 MIXER MX-2230	-	3, 4
P223	1	0.75 INCH	3 - #10	-	1 - #10	-	-	MCC-2000	DISCONNECT SWITCH MX-2430	-	2
P224	1	-	-	-	-	1 - MSC	-	DISCONNECT SWITCH MX-2430	BASIN 2 MIXER MX-2430	-	3, 4
P230	1	1.25 INCH	3 - #4	-	1 - #10	-	-	MCC-2000	PLANT PUMP STATION MAIN DISCONNECT CB-2300	-	-
P231	1	1.25 INCH	3 - #4	-	1 - #10	-	-	PLANT PUMP STATION MAIN DISCONNECT CB-2300	DP-2300	-	-
P232	1	0.75 INCH	3 - #10	-	1 - #10	-	-	DP-2300	XFMR-2300	-	-
P232A	1	1.25 INCH	3 - #4	1 - #4	1 - #8	-	-	XFMR-2300	LP-2300	-	-
P233	1	0.75 INCH	3 - #12	-	1 - #12	-	-	DP-2300	PCP-2800	-	-
P234	1	0.75 INCH	3 - #12	-	1 - #12	-	-	PUMP CONTROL PANEL PCP-2800	PUMP DISCONNECT PANEL PDP-2800 (PUMP #1)	-	-
P235	1	-	-	-	-	1 - MSC	-	PUMP DISCONNECT PANEL PDP-2800 (PUMP #1)	PLANT PUMP STATION PUMP NO.1, P-2810	ROUTE TO WET WELL VIA CABLE TRENCH.	3
P236	1	0.75 INCH	3 - #12	-	1 - #12	-	-	PUMP CONTROL PANEL PCP-2800	PUMP DISCONNECT PANEL PDP-2800 (PUMP #2)	-	-
P237	1	-	-	-	-	1 - MSC	-	PUMP DISCONNECT PANEL PDP-2800 (PUMP #2)	PLANT PUMP STATION PUMP NO.2, P-2820	ROUTE TO WET WELL VIA CABLE TRENCH.	3
P240	1	2.5 INCH	3 - #4/0	-	1 - #4	-	-	MCC-2000	DP-2000	-	-
P241	1	1.25 INCH	3 - #6	-	1 - #10	-	-	DP-2000	XFMR-2000	-	-
P242	1	0.75 INCH	3 - #12	-	1 - #12	-	-	DP-2000	CP-1000	CIRCUIT #2,4,6	2
P243	1	1.25 INCH	3 - #4	-	1 - #8	-	-	DP-2000	XFMR-2700	CIRCUIT #7,9,11	-
P244	1	2.5 INCH	3 - #3/0	1 - #3/0	1 - #4	-	-	XFMR-2700	(E) LAB/SHOP PANEL	VIA CB-XFMR-2700	-
P250	1	1.5 INCH	3 - #2	1 - #2	1 - #8	-	-	XFMR-2000	LP-2000	-	-
P251	1	0.75 INCH	3 - #10	-	1 - #10	-	-	DP-2000	XFMR-2100	CIRCUIT #11,13,15	-
P251A	1	1.25 INCH	3 - #4	1 - #4	1 - #8	-	-	XFMR-2100	LP-2100	-	-
P252	1	0.75 INCH	1 - #12	1 - #12	1 - #12	-	-	LP-2000	SBR MAIN CONTROL PANEL (CP-2000)	CIRCUIT #27	-
P253	1	0.75 INCH	1 - #12	1 - #12	1 - #12	-	-	LP-2000	EXTERIOR LUMINAIRES	CIRCUIT #3	-
P254	1	0.75 INCH	1 - #10	1 - #10	1 - #10	-	-	LP-2000	EQ BASIN LIGHTING	CIRCUIT #5	2, 5
P255	1	0.75 INCH	2 - #12	-	1 - #12	-	-	LP-2000	AIR CONDITIONING UNIT, OAC-2	CIRCUIT #7,9	-
P256	1	0.75 INCH	1 - #12	1 - #12	1 - #12	-	-	LP-2000	ELECTRICAL ROOM/ BOILER ROOM LUMINAIRES	CIRCUIT #2	-
P257	1	0.75 INCH	1 - #12	1 - #12	1 - #12	-	-	LP-2000	ELECTRICAL ROOM / EXTERIOR RECEPTACLES	CIRCUIT #4	-
P258	1	0.75 INCH	1 - #12	1 - #12	1 - #12	-	-	LP-2000	BLOWER ROOM RECEPTACLES	CIRCUIT #6	-
P259	1	1.0 INCH	1 - #6	1 - #6	1 - #6	-	-	LP-2000	SBR BASIN RECEPTACLES (EAST)	CIRCUIT #8	2
P260	1	1.0 INCH	1 - #6	1 - #6	1 - #6	-	-	LP-2000	BASIN RECEPTACLES (WEST)	CIRCUIT #10	2
P261	1	0.75 INCH	1 - #12	1 - #12	1 - #12	-	-	LP-2000	BASIN #1 DO (AIT-2210)	CIRCUIT #12	2, 6
P262	1	0.75 INCH	1 - #12	1 - #12	1 - #12	-	-	LP-2000	BASIN #2 DO (AIT-2410)	CIRCUIT #14	2, 6
P263	1	1.0 INCH	2 - #10 1 - #10	1 - #10	1 - #10	-	-	LP-2000	GENERATOR SET (GEN-2000)	BLOCK HEATER & BATTERY CHARGER CIRCUITS #17,19 & #24	-
P264	1	0.75 INCH	1 - #12	1 - #12	1 - #12	-	-	LP-2000	INFLUENT FLOWMETER (FIT-1020)	CIRCUIT #18	2, 6
P265	1	0.75 INCH	1 - #12	1 - #12	1 - #12	-	-	LP-2000	INFLUENT SAMPLER (AIT-1030)	CIRCUIT #20	2
P266	1	0.75 INCH	1 - #12	1 - #12	1 - #12	-	-	LP-2000	ROLL-UP DOOR OPERATOR	CIRCUIT #22	-
P267	1	0.75 INCH	1 - #10	1 - #10	1 - #10	-	-	LP-2000	SBR BASIN LIGHTING	CIRCUIT #26	2,5
P268	1	0.75 INCH	1 - #8	1 - #8	1 - #8	-	-	LP-2000	EQ BASIN RECEPTACLES	CIRCUIT #28	2,5
P269	1	0.75 INCH	1 - #10	1 - #10	1 - #10	-	-	LP-2000	EQ BASIN EFFLUENT CONTROL VALVE (V-2505)	CIRCUIT #21, VIA DISCONNECT SWITCH	2,5
P270	1	0.75 INCH	1 - #12	1 - #12	1 - #12	-	-	LP-2000	EFFLUENT FLOWMETER (FIT-2510)	CIRCUIT #23	2
P271	1	0.75 INCH	1 - #10	1 - #10	1 - #10	-	-	LP-2000	PLANT PUMP PIPING HEAT TRACE (AT HEADWORKS)	CIRCUIT #25	2,5
P272	1	0.75 INCH	1 - #10	1 - #10	1 - #10	-	-	LP-2000	SBR CONTROLLER (CP-2100)	CIRCUIT #29	-
1 P273	1	1.0 INCH	1 - #10	1 - #10	1 - #10	-	-	LP-2000	(FUTURE) IRRIGATION CONTROLLER	CIRCUIT #11. PROVIDE RECEPTACLE AS SHOWN ON DRAWINGS	5
P280	1	2.0 INCH	-	-	-	-	-	MCC-2000	PJB-201	SPARE CONDUIT	7
P281	1	2.0 INCH	-	-	-	-	-	DP-2000	PJB-201	SPARE CONDUIT	7
P282	1	2.0 INCH	-	-	-	-	-	LP-2000	PJB-201	SPARE CONDUIT	7
1 P283	1	1.0 INCH	-	-	-	-	-	JB-283	(FUTURE) IRRIGATION CONTROL VALVE	ROUTE CONDUIT AND CAP WITH A LABEL NEAR THE NEW IRRIGATION CONNECTION.	-

NOTES:
[1] CONTRACTOR SHALL COORDINATE WITH THE ELECTRIC UTILITY (PP&L) FOR THE ROUTING, INSTALLATION, INSPECTION, AND APPROVAL OF THE SERVICE CONDUITS. REFERENCE SECTION 16121 FOR ADDITIONAL REQUIREMENTS. PROVIDE PULL STRING IN CONDUITS.
[2] CONDUIT WILL ROUTE THROUGH THE SBR BASIN CONCRETE AS SHOWN ON THE ENLARGED PLAN. COORDINATE THE ROUTING OF THE CONDUIT WITH THE OWNER PRIOR TO INSTALLATION. REFER TO DRAWING E216 FOR ADDITIONAL REQUIREMENTS.
[3] PROVIDE CABLE STRAIN RELIEF PER DRAWING E004, DETAIL 112.
[4] PROVIDE MELTRIC CORD & PLUG PER DRAWING E005, DETAIL 501.
[5] CONDUCTORS ARE OVERSIZED DUE TO VOLTAGE DROP.
[6] PROVIDE INSTRUMENT JUNCTION BOX WITH VIEWING WINDOW, PER DRAWING E005, DETAIL 502.
[7] REFERENCE SPECIFICATIONS FOR REQUIREMENTS FOR SPARE CONDUITS.

BY	REVISIONS	DESCRIPTION	DATE	NO.
		ADDENDUM #1	06/23/26	1

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

DSN. DSN
DRN. DRWN
CKD. CHCK
DATE: JUN 2026

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REGISTERED PROFESSIONAL ENGINEER
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OREGON
BENJAMIN E. PERRY
MAY 08, 2012
EXPIRES: 12-31-2026

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3841 Fairview Industrial Dr. S.E., Suite 100, Salem, OR 97302
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E-mail: westech@westech-eng.com

CITY OF AUMSVILLE, OREGON
WASTEWATER TREATMENT PLANT IMPROVEMENTS

SBR POWER CONDUIT SCHEDULE

DRAWING
E202
164 OF 223

JOB NUMBER
2599.3220.0

PANEL NAME: DP-2000
VOLT/PHASE: 480V, 3Ø
NUM. POLES: 42
AIC RATING: 42,000
NOTES: NEW PANEL
REF. KEY NOTE #:

LOCATION: BLOWER ELECTRICAL ROOM
FED FROM: MCC-2000
BREAKER MOUNTING: BOLTED
MAIN LUGS ONLY
BUS RATING AMPS: 225
SPD: YES

NOTES	LOAD DESCRIPTION	LOAD TYPE	VA L1	VA L2	VA L3	TRIP RATING AMPS	CIRCUIT NUMBER	CIRCUIT NUMBER	TRIP RATING AMPS	VA L1	VA L2	VA L3	LOAD TYPE	LOAD DESCRIPTION	NOTES
		T	10,000				1	2		800			E		
	XFMR-2000	T		10,000		50	3	4	20		800		E	HEADWORKS CONTROL PANEL, CP-1000	
		T			10,000		5	6				800	E		
		T	15,000				7	8	20	-				SPARE	
	XFMR-2700	T		15,000		70	9	10	20		-			SPARE	
		T			15,000		11	12	20			-		SPARE	
		T	5,000				13	14	20	-				SPARE	
	XFMR-2100	T		5,000		30	15	16	20		-			SPARE	
		T			5,000		17	18	20			-		SPARE	
	SPARE		-			20	19	20	20	-				SPARE	
	SPARE			-		20	21	22	20		-			SPARE	
	SPARE				-	20	23	24	20			-		SPARE	
	SPARE		-			20	25	26	20	-				SPARE	
	SPARE			-		20	27	28	20		-			SPARE	
	SPARE				-	20	29	30	20			-		SPARE	
	SPARE			-		20	31	32	20	-				SPARE	
	SPARE				-	20	33	34	20		-			SPARE	
	SPARE				-	20	35	36	20			-		SPARE	
	SPARE		-			20	37	38		10			R		
	SPARE			-		20	39	40	30		10		R	SURGE PROTECTION DEVICE	
	SPARE				-	20	41	42				10	R		

TOTAL LOAD:	30,000	30,000	30,000
COMBINED LOAD:	30,810	30,810	30,810

CONNECTED LOAD: 92,430
DEMAND LOAD: 92,430
DEMAND AMPS: 111

TOTAL LOAD:	810	810	810	

Load Type Key		Demand Factor	Connected Load	Demand Load
R	General Purpose Receptacle	100% First 10kVA, 50% thereafter	30	30
L	Lighting	125% Load	0	0
M1	Largest Motor	125% Load	0	0
M	Motor	100% Load	0	0
A	Appliance	100% Load	0	0
H	HVAC	100% Load	0	0
K	Kitchen	100% Load	0	0
E	Equipment	100% Load	2,400	2,400
T	Transformer	100% Load	90,000	90,000
W	Welder	100% Load	0	0
RV	Recreational Vehicle	100% Load	0	0

1 - Units of Equipment - See NEC Table 220.56
1 - RV Sites - See NEC Table 551.71 (A)

NOTES:

PANEL NAME: LP-2000
VOLT/PHASE: 208/120V, 3Ø
NUM. POLES: 42
AIC RATING: 42,000
NOTES: NEW PANEL
REF. KEY NOTE #:

LOCATION: BLOWER ELECTRICAL ROOM
FED FROM: XFMR-2000
BREAKER MOUNTING: BOLTED
MAIN BREAKER AMPS: 100
BUS RATING AMPS: 225
SPD: NO

NOTES	LOAD DESCRIPTION	LOAD TYPE	VA L1	VA L2	VA L3	TRIP RATING AMPS	CIRCUIT NUMBER	CIRCUIT NUMBER	TRIP RATING AMPS	VA L1	VA L2	VA L3	LOAD TYPE	LOAD DESCRIPTION	NOTES
	SPARE		-			20	1	2	20	639			L	ELECTRICAL ROOM / BOILER ROOM LUMINAIRES	
	BLOWER BUILDING EXTERIOR LUMINAIRES	L		416		20	3	4	20		720		R	ELECTRICAL ROOM / EXTERIOR RECEPTACLES	
	EQ BASIN LUMINAIRES	L			600	20	5	6	20			720	R	BLOWER ROOM RECEPTACLES	
1	AIR CONDITIONING UNIT OAC-2	M1	1,695			20	7	8	20	720			R	SBR BASIN RECEPTACLES (WEST)	
		M1		1,695			9	10	20		720		R	SBR BASIN RECEPTACLES (EAST)	
	(FUTURE) IRRIGATION CONTROLLER	E			100	20	11	12	20			100	E	SBR BASIN #1 DO AIT-2210	
	SPARE		-			20	13	14	20	100			E	SBR BASIN #2 DO AIT-2410	
	SPARE			-		20	15	16	20		-			SPARE	
	GENERATOR BLOCK HEATER	E			1,000	20	17	18	20			50	E	INFLUENT FLOWMETER, FIT-1020	
		E	1,000				19	20	20	50			E	INFLUENT SAMPLER, AIT-1030	
	EQ BASIN EFFLUENT CONTROL VALVE, V-2505	E		50		20	21	22	20		500		M	BLOWER ROOM ROLL-UP DOOR OPERATOR	
	EFFLUENT FLOWMETER, FIT-2510	E			50	20	23	24	20			600	E	GENERATOR BATTERY CHARGER	
	PLANT PUMP PIPING HEAT TRACE (LOCATED AT HEADWORKS)	H	500			20	25	26	20	600			L	SBR BASIN LIGHTING	
	SBR MAIN CONTROL PANEL, CP-2100	E		1,500		20	27	28	20		180		R	EQ BASIN RECEPTACLE	
	SBR CONTROLLER, CP-2100	E			2,500	30	29	30	20			-		SPARE	
	SPARE		-			20	31	32	20	-				SPARE	
	SPARE			-		20	33	34	20		-			SPARE	
	SPARE				-	20	35	36	20			-		SPARE	
	SPARE		-			20	37	38	20	-				SPARE	
	SPARE			-		20	39	40	20		-			SPARE	
	SPARE				-	20	41	42	20			-		SPARE	

TOTAL LOAD:	3,195	3,661	4,250
COMBINED LOAD:	5,304	5,781	5,720

CONNECTED LOAD: 16,805
DEMAND LOAD: 18,216
DEMAND AMPS: 51

TOTAL LOAD:	2,109	2,120	1,470

Load Type Key		Demand Factor	Connected Load	Demand Load
R	General Purpose Receptacle	100% First 10kVA, 50% thereafter	3,000	3,000
L	Lighting	125% Load	2,255	2,819
M1	Largest Motor	125% Load	3,390	4,238
M	Motor	100% Load	500	500
A	Appliance	100% Load	0	0
H	HVAC	100% Load	500	500
K	Kitchen	100% Load	0	0
E	Equipment	100% Load	7,100	7,100
T	Transformer	100% Load	0	0
W	Welder	100% Load	0	0
RV	Recreational Vehicle	100% Load	0	0

XX - Units of Equipment - See NEC Table 220.56
XX - RV Sites - See NEC Table 551.71 (A)

NOTES:
[1] REFER TO THE MECHANICAL SCHEDULE ON SHEET E006 FOR CONDUIT AND CONDUCTORS.

PANEL NAME: DP-2300
VOLT/PHASE: 480V, 3Ø
NUM. POLES: 24
AIC RATING: 42,000
NOTES: NEW PANEL
REF. KEY NOTE #:

LOCATION: PLANT PUMP STATION
FED FROM: MCC-2000
BREAKER MOUNTING: BOLTED
MAIN LUGS ONLY
BUS RATING AMPS: 125
SPD: YES

NOTES	LOAD DESCRIPTION	LOAD TYPE	VA L1	VA L2	VA L3	TRIP RATING AMPS	CIRCUIT NUMBER	CIRCUIT NUMBER	TRIP RATING AMPS	VA L1	VA L2	VA L3	LOAD TYPE	LOAD DESCRIPTION	NOTES
		E	6,850				1	2		5,000			T		
	PUMP CONTROL PANEL PCP-2800	E		6,850		40	3	4	30		5,000		T	XFMR-2300	
		E			6,850		5	6				5,000	T		
	SPARE		-			20	7	8	20	-				SPARE	
	SPARE			-		20	9	10	20		-			SPARE	
	SPARE				-	20	11	12	20			-		SPARE	
	SPACE		-			-	13	14	-	-				SPACE	
	SPACE				-	-	15	16	-		-			SPACE	
	SPACE				-	-	17	18	-			-		SPACE	
	SPACE		-			-	19	20		10			R		
	SPACE			-		-	21	22	30		10		R	SURGE PROTECTION DEVICE	
	SPACE				-	-	23	24				10	R		

TOTAL LOAD:	6,850	6,850	6,850
COMBINED LOAD:	11,860	11,860	11,860

CONNECTED LOAD: 35,580
DEMAND LOAD: 35,580
DEMAND AMPS: 43

TOTAL LOAD:	5,010	5,010	5,010

Load Type Key		Demand Factor	Connected Load	Demand Load
R	General Purpose Receptacle	100% First 10kVA, 50% thereafter	30	30
L	Lighting	125% Load	0	0
M1	Largest Motor	125% Load	0	0
M	Motor	100% Load	0	0
A	Appliance	100% Load	0	0
H	HVAC	100% Load	0	0
K	Kitchen	100% Load	0	0
E	Equipment	100% Load	20,550	20,550
T	Transformer	100% Load	15,000	15,000
W	Welder	100% Load	0	0
RV	Recreational Vehicle	100% Load	0	0

XX - Units of Equipment - See NEC Table 220.56
XX - RV Sites - See NEC Table 551.71 (A)

NOTES:

PANEL NAME: LP-2300
VOLT/PHASE: 208/120V, 3Ø
NUM. POLES: 24
AIC RATING: 42,000
NOTES:
REF. KEY NOTE #:

LOCATION: PLANT PUMP STATION
FED FROM: DP-2300
BREAKER MOUNTING: BOLTED
MAIN BREAKER AMPS: 60
BUS RATING AMPS: 225
SPD: NO

NOTES	LOAD DESCRIPTION	LOAD TYPE	VA L1	VA L2	VA L3	TRIP RATING AMPS	CIRCUIT NUMBER	CIRCUIT NUMBER	TRIP RATING AMPS	VA L1	VA L2	VA L3	LOAD TYPE	LOAD DESCRIPTION	NOTES
	SPARE		-			20	1	2	20	-				SPARE	
	BUILDING EXHAUST FAN	M1		100		20	3	4	20		180		R	PDP RECEPTACLE	
	BUILDING UNIT HEATER	H			1,500	20	5	6	20			-		SPARE	
		H	1,500				7	8	20	-				SPARE	
	PLANT PUMP STATION LUMINAIRES	L		118		20	9	10	20		360		R	PLANT PUMP STATION RECEPTACLES	
	SPARE				-	20	11	12	20			-		SPARE	
	SPACE		-			-	13	14	-	-				SPACE	
	PLANT PUMP STATION EXTERIOR LIGHTING	L		50		-	15	16	-		-			SPACE	
	SPACE				-	-	17	18	-			-		SPACE	
	SPACE		-			-	19	20	-	-				SPACE	
	SPACE			-		-	21	22	-		-			SPACE	
	SPACE				-	-	23	24	-			-		SPACE	

TOTAL LOAD:	1,500	268	1,500
COMBINED LOAD:	1,500	808	1,500

CONNECTED LOAD: 3,808
DEMAND LOAD: 3,875
DEMAND AMPS: 11

TOTAL LOAD:	0	540	0

Load Type Key		Demand Factor	Connected Load	Demand Load
R	General Purpose Receptacle	100% First 10kVA, 50% thereafter	540	540
L	Lighting	125% Load	168	210
M1	Largest Motor	125% Load	100	125
M	Motor	100% Load	0	0
A	Appliance	100% Load	0	0
H	HVAC	100% Load	3,000	3,000
K	Kitchen	100% Load	0	0
E	Equipment	100% Load	0	0
T	Transformer	100% Load	0	0
W	Welder	100% Load	0	0
RV	Recreational Vehicle	100% Load	0	0

XX - Units of Equipment - See NEC Table 220.56
XX - RV Sites - See NEC Table 551.71 (A)

NOTES:

PANEL NAME: LP-2100
VOLT/PHASE: 208/120V, 3Ø
NUM. POLES: 24
AIC RATING: 42,000
NOTES:
REF. KEY NOTE #:

LOCATION: STORAGE BUILDING
FED FROM: LP-2000
BREAKER MOUNTING: BOLTED
MAIN BREAKER AMPS: 60
BUS RATING AMPS: 225
SPD: NO

NOTES	LOAD DESCRIPTION	LOAD TYPE	VA L1	VA L2	VA L3	TRIP RATING AMPS	CIRCUIT NUMBER	CIRCUIT NUMBER	TRIP RATING AMPS	VA L1	VA L2	VA L3	LOAD TYPE	LOAD DESCRIPTION	NOTES
	INTERIOR LIGHTS	L	1,188			20	1	2	20	-				SPARE	
	EXTERIOR LIGHT	L		280		20	3	4	20		-			SPARE	
	RECEPTACLES	R			720	20	5	6	20			-		SPARE	
	SPARE		-			20	7	8	20	-				SPARE	
	SPARE			-		20	9	10	-		-			SPACE	
	SPACE				-	-	11	12	-			-		SPACE	
	SPACE		-			-	13	14	-	-				SPACE	
	SPACE				-	-	15	16	-		-			SPACE	
	SPACE				-	-	17	18	-			-		SPACE	
	SPACE		-			-	19	20	-	-				SPACE	
	SPACE			-		-	21	22	-		-			SPACE	
	SPACE				-	-	23	24	-			-		SPACE	

TOTAL LOAD:	1,188	280	720
COMBINED LOAD:	1,188	280	720

CONNECTED LOAD: 2,188
DEMAND LOAD: 2,555
DEMAND AMPS: 7

TOTAL LOAD:	0	0	0

Load Type Key		Demand Factor	Connected Load	Demand Load
R	General Purpose Receptacle	100% First 10kVA, 50% thereafter	720	720
L	Lighting	125% Load	1,468	1,835
M1	Largest Motor	125% Load	0	0
M	Motor	100% Load	0	0
A	Appliance	100% Load	0	0
H	HVAC	100% Load	0	0
K	Kitchen	100% Load	0	0
E	Equipment	100% Load	0	0
T	Transformer	100% Load	0	0
W	Welder	100% Load	0	0
RV	Recreational Vehicle	100% Load	0	0

XX - Units of Equipment - See NEC Table 220.56
XX - RV Sites - See NEC Table 551.71 (A)

NOTES:

NO.	DATE	DESCRIPTION	BY
		REVISIONS	
1	06/23/26	ADDENDUM #1	

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING 1"
IF NOT ONE INCH, ON THIS SHEET, ADJUST SCALES ACCORDINGLY
DSN. DSN
DRN. DRWN
CKD. CHCK
DATE: JUN 2026

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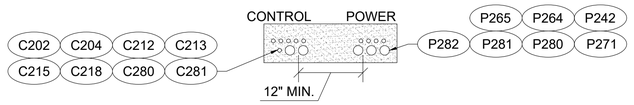
REGISTERED PROFESSIONAL ENGINEER
86683
Digitally Signed
OREGON
MAY 08, 2012
BENJAMIN E. PERRY
EXPIRES: 12-31-2026

WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS AND PLANNERS
3841 Fairview Industrial Dr. S.E., Suite 100, Salem, OR 97302
Phone: (503) 585-2474 Fax: (503) 585-3986
E-mail: westech@westech-eng.com

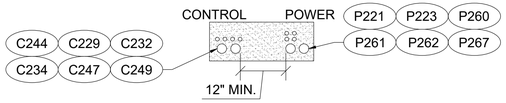
CITY OF AUMSVILLE, OREGON
WASTEWATER TREATMENT PLANT IMPROVEMENTS

SBR PANEL SCHEDULES

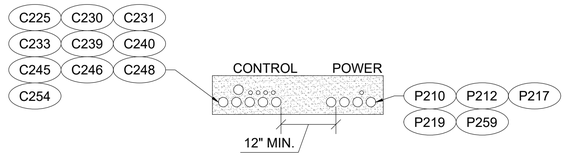
DRAWING
E204
167 OF 223
JOB NUMBER
2599.3220.0



2 CONDUIT DUCTBANK FROM PJB/CJB-201 TO AERATION BASIN
SCALE: NTS



3 CONDUIT DUCTBANK FROM PJB/CJB-202 TO AERATION BASIN
SCALE: NTS



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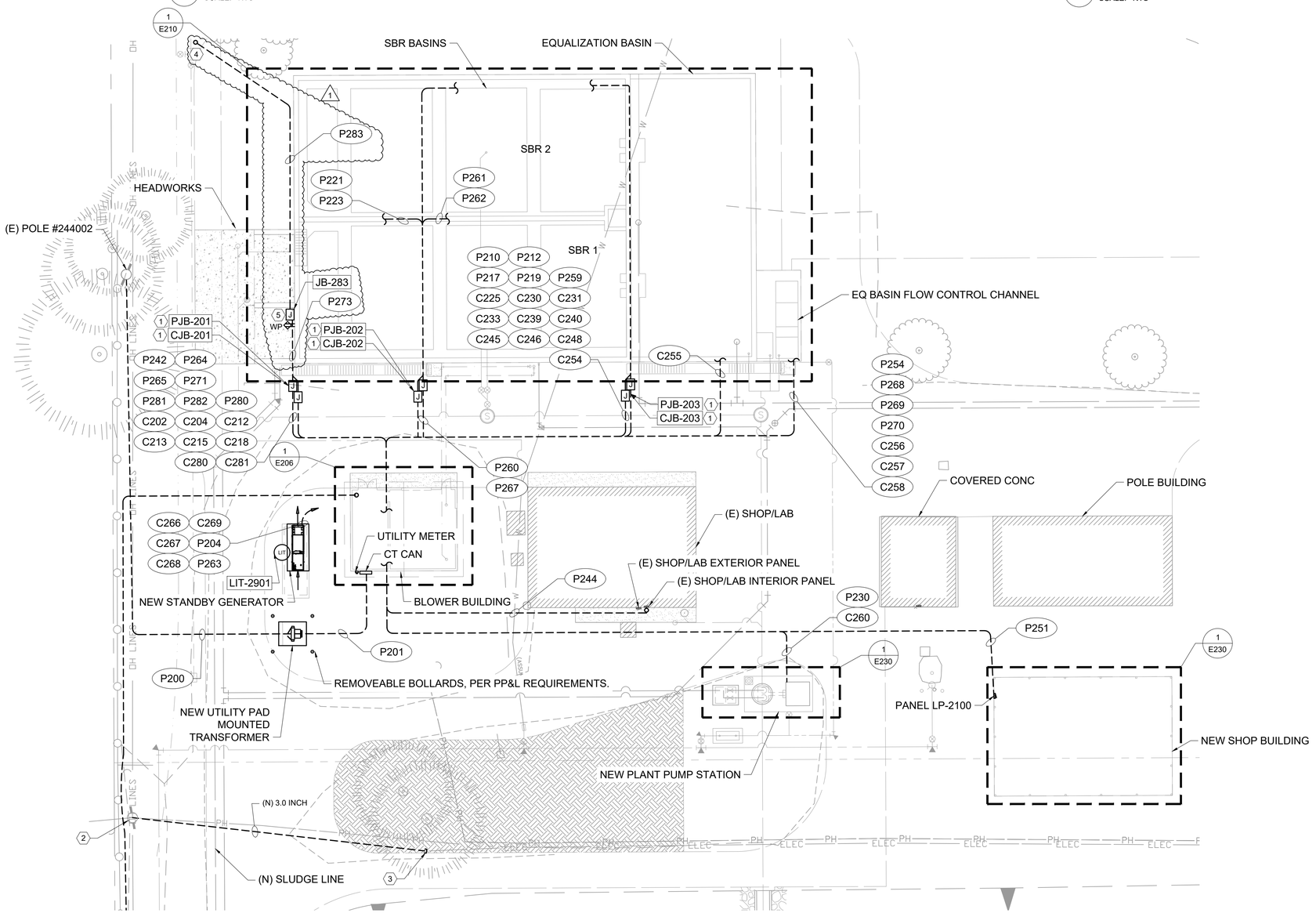
SCALE: NTS



1 SBR BUILDING & BASINS ELECTRICAL SITE PLAN
SCALE: 1" = 20'

GENERAL SHEET NOTES

1. ALL UNDERGROUND CONDUITS ON THIS SHEET SHALL BE INSTALLED UNDERNEATH A CONCRETE SLURRY. REFER TO DETAIL 402 ON SHEET E004. THE EXCEPTION SHALL BE THE UTILITY POWER CONDUITS.
2. INSTALL UTILITY CONDUITS PER PP&L REQUIREMENTS.

SHEET KEY NOTES

1. PROVIDE IN-GROUND VAULTS FOR JUNCTION BOXES. REFERENCE KEYNOTE 16131.V10.
2. COORDINATE WITH PP&L TO INTERCEPT AND EXTEND THE EXISTING 3.0 INCH PRIMARY CONDUIT FOR THE VERIZON CELL TOWER. EXTEND THE RISER GOING UP TO THE POLE AN ADDITIONAL 20-FT PER PP&L'S REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH VERIZON AND PP&L THE SHUTDOWN AND SEQUENCING AS SPECIFIED IN SECTION 16050.
3. INTERCEPT AND EXTEND EXISTING 3.0 INCH CONDUIT AN ADDITIONAL 2.5-FT DEPTH BELOW THE NEW SLUDGE LINE. CONTRACTOR SHALL COORDINATE WITH OWNER, CIVIL ENGINEER, PP&L, AND VERIZON AS SPECIFIED.

1
4. INSTALL CONDUIT AND CAP WITH A CONDUIT LABEL NEAR THE NEW IRRIGATION CONNECTION. COORDINATE FINAL LOCATION OF CONDUIT STUB-UP WITH CIVIL ENGINEER PRIOR TO INSTALLATION.
5. PROVIDE A DOUBLE GANG BOX FOR FUTURE IRRIGATION SYSTEM CONTROL VALVE WIRING.

NO.	DATE	DESCRIPTION	BY
1	06/23/26	ADDENDUM #1	

REVISIONS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"
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CKD. CHCK
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86683
Digitally Signed
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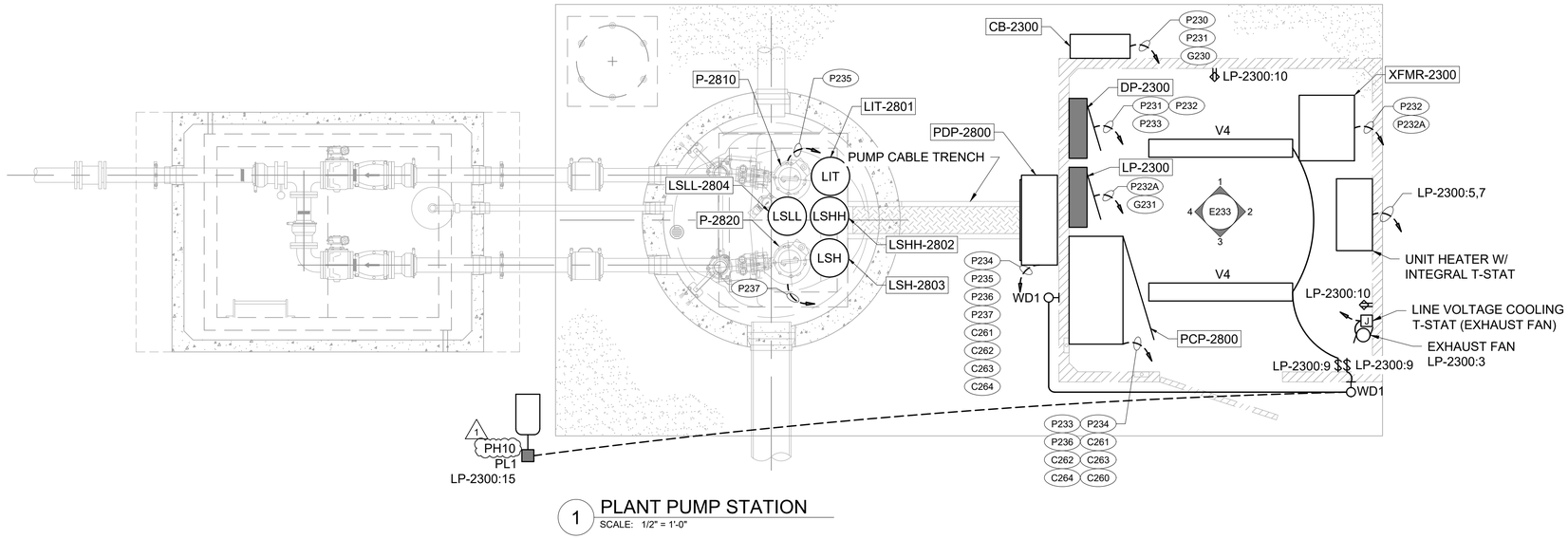
Phone: (503) 585-2474 Fax: (503) 585-3986
E-mail: westech@westech-eng.com

CITY OF AUMSVILLE, OREGON
WASTEWATER TREATMENT PLANT IMPROVEMENTS

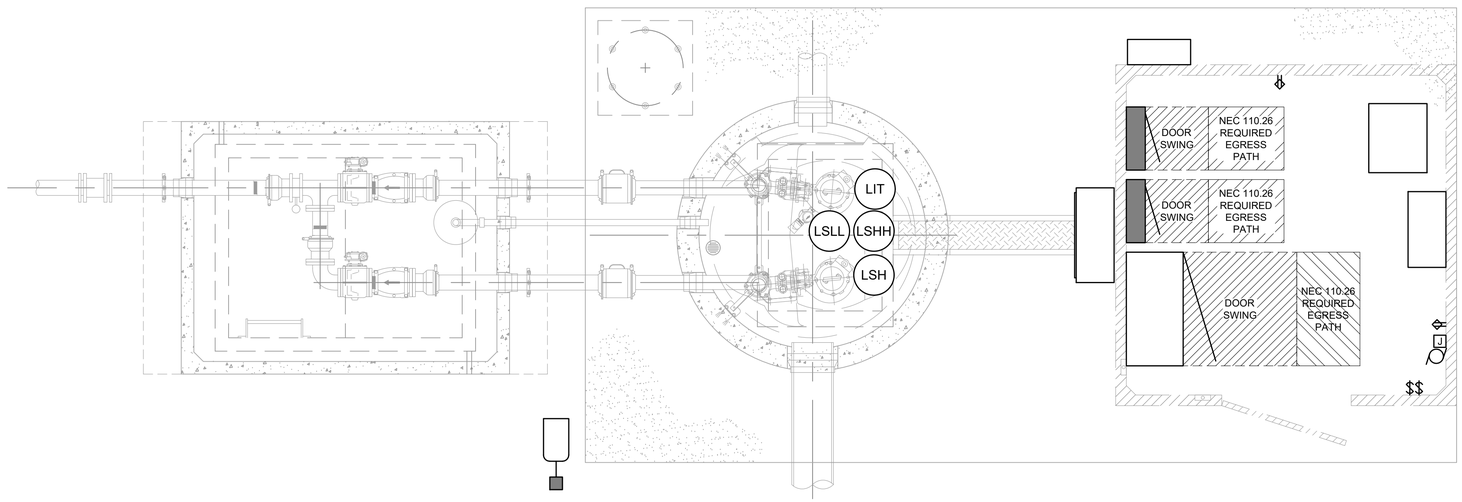
SBR BUILDING & BASINS ELECTRICAL SITE PLAN

DRAWING
E205
168 OF 223

JOB NUMBER
2599.3220.0



1 PLANT PUMP STATION
SCALE: 1/2" = 1'-0"



2 CLEARANCE PLAN
PLANT PUMP STATION
SCALE: 1/2" = 1'-0"

NO.	DATE	DESCRIPTION	BY
1	06/23/26	ADDENDUM #1	

REVISIONS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
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0 1"

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CITY OF AUMSVILLE, OREGON
WASTEWATER TREATMENT PLANT IMPROVEMENTS

PLANT PUMP STATION

DRAWING
E230
180 OF 223

JOB NUMBER
2599.3220.0

PANEL NAME: LP-3000

VOLT/PHASE: 208/120V, 3Ø

NUM. POLES: 54

AIC RATING: 42,000

NOTES: NEW PANEL

REF. KEY NOTE #:

LOCATION: DAF ELECTRICAL ROOM

FED FROM: XFMR-3000

BREAKER MOUNTING: BOLTED

MAIN BREAKER AMPS: 350

BUS RATING AMPS: 400

SPD: NO

NOTES	LOAD DESCRIPTION	LOAD TYPE	VA L1	VA L2	VA L3	TRIP RATING AMPS	CIRCUIT NUMBER	CIRCUIT NUMBER	TRIP RATING AMPS	VA L1	VA L2	VA L3	LOAD TYPE	LOAD DESCRIPTION	NOTES
	DAF INTERIOR LUMINAIRES	L	784			20	1	2	20	720			R	DAF RECEPTACLES	
	DAF EXTERIOR LUMINAIRES	L		260		20	3	4	20		500		M	ROLL UP DOOR (EAST)	
	UNIT HEATER UH-1	H			3,750	50	5	6	50			3,750	H	UNIT HEATER UH-3	
		H	3,750				7	8		3,750			H		
	UNIT HEATER UH-2	H		3,750		50	9	10	50		3,750		H	UNIT HEATER UH-4	
		H			3,750		11	12				3,750	H		
	EXHAUST FAN EF-1	M	1,500			20	13	14	20	1,695			M	AIR CONDITIONING UNIT OAC-1	
	EFFLUENT TURBIDITY, AIT-3240	E		50		20	15	16			1,695		M		
	SALT DISSOLVING TANK LEVEL, LIT-3311	E			50	20	17	18	20			-		SPARE	
	HYDROGEN LEAK DETECTOR, AIT-3340	E	50			20	19	20	20	50			E	NACLO STORAGE TANK, LIT-3361	
	EFFLUENT FLOWMETER, FIT-3401	E		50		20	21	22	20		600		E	GENERATOR BATTERY CHARGER	
	ROLL UP DOOR (SOUTH)	M			500	20	23	24	20			740	H	BEAVER CREEK BRIDGE SLUDGE PIPE HEAT TAPE	
	EFFLUENT SAMPLER, AIT-3600	E	50			20	25	26		740			H		
	DRAIN PUMP, P-3410	M		1,920		20	27	28	20		300		E	CHLORINE METERING PUMP #1 P-3371	
	CHLORINE METERING PUMP #2 P-3372	E			300	20	29	30	20			300	E	CHLORINE METERING PUMP #3 P-3373	
	DAF BUILDING MAIN PLC, CP-3000	E	1,500			20	31	32	20	1,000			E	GENERATOR BLOCK HEATER	
	DAF SYSTEM CONTROLLER, CP-3205	E		3,500		40	33	34			1,000		E		
	DAF RECEPTACLES	R			540	20	35	36	40			3,600	M1	DAF COMPRESSOR #1, CMP-3240	
	DAF RECEPTACLES	R	540			20	37	38		3,600			M1		
	DAF COMPRESSOR #2, CMP-3241	M		3,600		40	39	40			3,600		M1		
		M			3,600		41	42	60			6,000	E	PANEL LP-3100 (EXISTING BUILDING #9)	
		M	3,600				43	44		6,000			E		
	DAF COMPRESSOR #1 DRAIN VALVE	E		50		20	45	46	20		50		E	DAF COMPRESSOR #2 DRAIN VALVE	
	SPARE				-	20	47	48	20			-		SPARE	
	SPARE		-			20	49	50	20	-				SPARE	
	SPARE			-		20	51	52	20		-			SPARE	
	SPARE				-	20	53	54	20			-		SPARE	

TOTAL LOAD:	11,774	13,180	12,490
COMBINED LOAD:	29,329	24,675	30,630

TOTAL LOAD:	17,555	11,495	18,140

CONNECTED LOAD: 84,634

DEMAND LOAD: 87,595

DEMAND AMPS: 243

Load Type Key		Demand Factor	Connected Load	Demand Load	
R	General Purpose Receptacle	100% First 10kVA, 50% thereafter	1,800	1,800	
L	Lighting	125% Load	1,044	1,305	
M1	Largest Motor	125% Load	10,800	13,500	
M	Motor	100% Load	18,610	18,610	
A	Appliance	100% Load	0	0	
H	HVAC	100% Load	31,480	31,480	
K	Kitchen	100% Load	0	0	XX - Units of Equipment - See NEC Table 220.56
E	Equipment	100% Load	20,900	20,900	
T	Transformer	100% Load	0	0	
W	Welder	100% Load	0	0	
RV	Recreational Vehicle	100% Load	0	0	XX - RV Sites - See NEC Table 551.71 (A)

BY	REVISIONS	DESCRIPTION	DATE	NO.
		ADDENDUM #1	06/23/26	1

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CITY OF AUMSVILLE, OREGON
WASTEWATER TREATMENT PLANT IMPROVEMENTS

DAF PANEL SCHEDULES

DRAWING
E304
189 OF 223

JOB NUMBER
2599.3220.0

November 17, 2023

Chris Brugato
Westech Engineering
3841 Fairview Industrial Dr, Suite 100
Salem, OR 97302

Subject: **Beaver Creek Bridge Inspection**
Dowl Project – 2870.80728.01

Dear Chris:

On October 15th, 2023, DOWL completed the special inspection of the wastewater treatment plant bridge over Beaver Creek in Aumsville, Oregon. DOWL performed the inspection to assess the bridge condition and confirm in-service structure conforms to original design plans. After the inspection, DOWL completed a load rating analysis to determine the bridge's capacity to support vehicular loading. This letter outlines our findings from the inspection and the results of the load rating analysis. The bridge inspection report and load rating report are provided as attachments to this letter.

Inspection Findings

The structure was inspected by Jason Crispi and Victor Millan-Simpkins from DOWL. A visual inspection was performed from the deck and the ground.

Deck

The precast, prestressed concrete slab dimensions conform to plan details. The deck is in very good condition overall with only some abrasion to the bare slabs in the wheel lines and some minor defects including a spall and areas of efflorescence.

Superstructure

For prestressed slabs like this, NBI standards define the superstructure as part of the deck. The superstructure is in very good condition overall with defects identified in the deck section.

Substructure

The substructure is in satisfactory condition overall. There is some paint failure that is leading to corrosion in the upper flanges of the crossbeams. This primarily occurs where water is leaking through the joints between slabs. Minor section loss, less than 5 percent of the total thickness, was observed in corroded areas.

The steel substructure has some minor deviations from the plan details. The following discrepancies were found:

- Abutment piles are designated HP10x42 and interior bent piles are designated HP12x53 in the plans. All piles measured in the field were found to have HP12x53 dimensions. The HP12x53 piles installed have a higher capacity than the HP10x42 piles shown in the design plans for the abutments.
- The design detail for the steel crossbeams show four stiffeners over each pile, two on each side of the cap. Field observations found that only two stiffeners, one on each side of the cap, were installed at the pile centerline.

Miscellaneous

The bridge has gravel embankments instead of approach slabs, as called for in plans. The embankments are slightly slumping at the shoulders and exposing the edges of the slabs. The creek was low, with little flow, at the time of inspection. The channel is well vegetated, and the banks are stable.

Load Rating Findings

The Beaver Creek Bridge at the Aumsville Wastewater facility consists of a three-span superstructure supported by a steel crossbeam and steel pile substructure. The bridge is symmetrical longitudinally and transversely. The load rating was analyzed up to the points of symmetry. Uneven gravel at the approaches was found during the inspection which can cause bouncing of trucks which can increase dynamic loads on the slabs. However, it is anticipated that vehicles will travel across the bridge at very low speeds – 10 miles per hour (MPH) or less – and that dynamic load effects will be minimal. The shear and moment capacities of the structure were analyzed for loads from ODOT standard Design, Legal, CTP (continuous trip permit), and STP (single trip permit) trucks.

Girders

Each span includes three 21” precast, prestressed reinforced concrete girder slabs. The girders were found to have sufficient capacity to support all Legal and Permit loads analyzed. The only rating factors less than 1.0 were for HL93 Design vehicles, which have increased loads compared to the design vehicles used at the time of design.

Crossbeams

The design details indicate steel crossbeams are W14x87 which is an older shape that is no longer available. The measurements in the field are very similar to the current W14x90. Therefore, the load rating analysis used the section properties for a W14x90 to evaluate the capacity of the pile caps. At Bents 1 and 4 the girders are aligned directly above the piles which eliminates the requirement to load rate the crossbeams at these locations. The interior crossbeams at Bents 2 and 3 were rated and found to have sufficient capacity to support all vehicle loads analyzed.

Conclusion

DOWL recommends the following:

- Inspect the bridge every 24-months as recommended by NBI standards for bridges with vehicle loading
- Complete the maintenance items outlined in the bridge inspection report
- Restrict Legal and Permit trucks crossing the bridge to speeds of 10 MPH or less

Thank you for allowing DOWL to perform this work; we enjoy assisting in maintaining these valuable pieces of public infrastructure. If you have any questions or need any further assistance, please do not hesitate to contact us.

Sincerely,

Mike Miotke, PE
Project Manager