ONSITE SANITATION City of Portland – Bureau of Development Services
1900 SW 4th Avenue, Portland, Oregon 97201 – 503-823-6892 – TTY 503-823-6868 – www.portlandoregon.gov/bds

SEPTIC REVIEW CERTIFICATION (Land Use/Planning)

Land Use/Planning and Zoning approval involving new construction or addition to any building(s), any change in use, and the creation of a new parcel or property line adjustment requires approval by the Sanitarian.

STEP 1- Complete the following:

Address of Proposed Work: Across from 35319 SE Carpenter Lane

Property Map & Tax Lot #: SECTION 22 1S 4E, TL 400, SECTION 22 1S 4E, TL 100 Alternate Acct #: R R994220980, R994220820

Description of proposed work for this Septic Planning Review Construct a water filtration facility including administration and maintenance buildings, treatment process structures such as filters, basins, and clearwell, as well as general, chemical, and equipment storage.

Change in number of bedrooms? ☐ Yes ☒ No # of existing bedrooms N/A # of bedrooms at completion N/A

Applicant's Name City of Portland Water Bureau - Attn: Christopher Bowker

Applicant E-mail Christopher.Bowker@PortlandOregon.gov

Mailing Address 1120 SW 5th Avenue Rm 40 Phone 503.823.7464

City Portland State Oregon ZIP 97027

Permit No. 22-160016-SE

STEP 2- Submit with current **Sanitation Evaluation application**, for each lot affected along with all required checklist items listed on the application. Refer to the current Sanitation Evaluation application for current fee for Septic Planning Review "with site visit".

Sanitation Evaluation Application available for download at ***www.portlandoregon.gov/bds/*** ***Septic – Sanitation Evaluation Application*** *or* ***Multnomah County Land Use Planning Office****

Mail or deliver completed Sanitation Evaluation Submittal package to:
City of Portland, Bureau of Development Services, Trade Permits
1900 SW 4th Ave., First Floor, Portland, OR 97201
For questions please call 503-823-6892

Date 9/20/22

STEP 3- Review: After submittal, allow up to 20 business days for submittal application package review

STEP 4- Site Visit: Sanitarian will contact you with any questions and/or time of site visit

STEP 5- Sign Off: Based on present knowledge of the area, and current regulations of the State of Oregon Department of Environmental Quality (DEQ), the Sanitarian hereby finds that the above proposal is:

☒ Approved – will not impact the existing system. The following is **REQUIRED** prior to Building Permit issuance:

☒ Septic Installation Permit ☐ Authorization Notice

Conditions/Comments:
Proposed water filtration facility with a projected daily sewage flow of 594 gallons per day poses no concern to septic. Ten max employees per day (7 8hr shift, 3 12hr shift), 30 max visitors per day. Wastes associated with drinking water quality analysis laboratory must be containerized and not enter the septic system. Only domestic strength wastewater is allowed. Site visit during Site Evaluation Report SER 24-21.

Lindsey Reschke 9/20/2022
Multnomah County Sanitarian *Date*

STEP 6- Return: to Multnomah County Land Use Office with this signed form and site plan (floor plans if applicable)

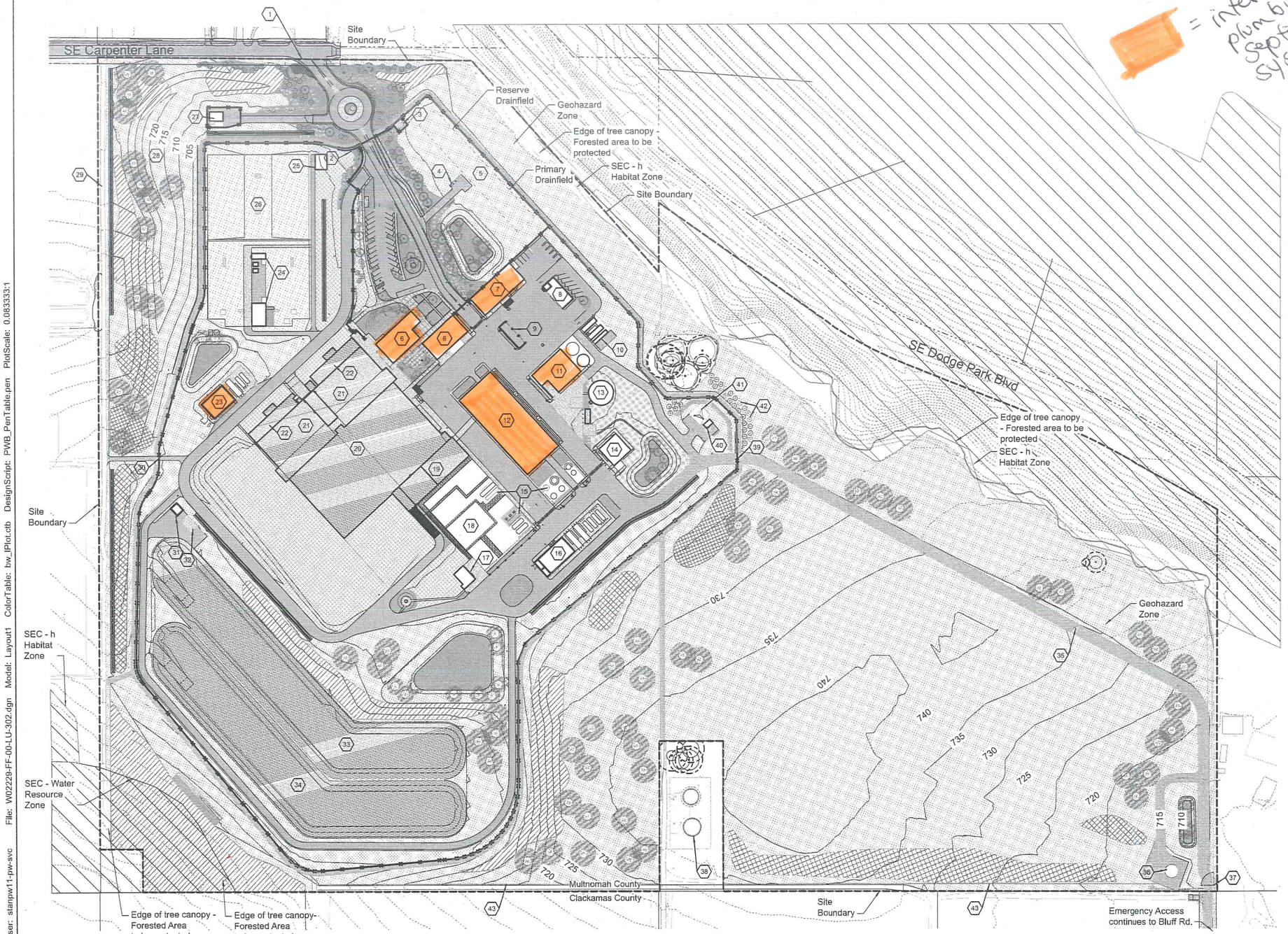
See page 2 for requirements

22-160016-SE

Rev 2

LR

= interior plumbing to septic system



PLAN

SCALE: 1" = 120'-0"

KEY PLAN

Sheet Keynotes

1. Carpenter Lane Entry
2. Main Facility Entry Gates
3. North PGE Electrical Cutout
4. Septic Structure (At Grade)
5. Septic Drainage Field
6. Administration Building
7. Maintenance Building
8. General Storage Building
9. Refuse / Recycling Storage Shed
10. Pilot (CONEX)
11. Mechanical Dewatering / Solids
12. Chemical Building
13. Gravity Thickeners
14. Washwater Clarification
15. Chemical Storage Tanks
16. Main Electric Complex
17. Raw Water Inlet Structure
18. Ozone Building (Not In Use)
19. Ozone Injection / Flash Mix
20. Floccuation / Sedimentation Basin
21. Filtration Basin
22. Waste Washwater Equalization Basins
23. North Electric Complex
24. Pumpstation
25. Fire Pumpstation Enclosure
26. Finish Water Clearwell (Below Grade)
27. Pleasant Home Pumpstation (Non-PWB)
28. West Screening Berm
29. Easement on PWB Property (To Remain)
30. West Gate
31. Electrical Building
32. Overflow Pumpstation (At-Grade)
33. North Overflow Basin
34. South Overflow Basin
35. Emergency Access Route
36. Raw Water Pipeline Cover (At-Grade)
37. Manual Bar Gate with Knox Box
38. Pleasant Home Water Towers (Off-Site)
39. East Gate
40. Communication Tower Accessory Building
41. Communication Tower
42. Tower Screen Planting (Native Evergreen Hedge and 25' Min. Tree Buffer)
43. Agricultural Style Fence

General Sheet Notes

1. Site is Zoned MUA-20
2. No development or construction activity proposed within SEC zones on Filtration Site. Revegetation of existing agricultural land to be performed with hand tools only. Native plant species only allowed for revegetation in these zones
3. No development or construction activity proposed within Geohazard Area on Filtration Site.

Legend

- Asphalt Paving
- Concrete Paving
- Gravel Paving
- Basins
- Fenceline
- Native Grass / Forb Mixes
- Swale Planting
- Stormwater Planting
- Screen Mix: Forested Planting
- Screen Mix: Shrubby Planting
- Tree / Shrub Planting Clusters
- Proposed Trees - Deciduous and Evergreen
- Landscape Bed - Shrubs, Groundcover, Mulch
- Existing tree to remain

0 120 240 360 480

FEET

Site North

No	Date	Description	Appd
C	09/2022	Second Intermediate Design and BCOE Review - 90% Submittal	MRG
B	01/2022	Intermediate Design - 60% Submittal	MRG
A	07/2021	Initial Design - 30% Submittal	MRG

Revision

Survey

Stantec

Designed By	NNA	Program Mgr	RRR
Drawn By	NNA	Const Mgr	XXX
Checked By	NNA	Const Supvr	XXX
Project Mgr	RRR	Date 09/02/22	

Warning: 0 ½ 1 — If this bar does not measure 1" then the drawing is not to scale

PORTLAND WATER BUREAU — FROM FOREST TO FAUCET

David W. Peters, Engineering Manager, PE No 16683 — Date

CITY OF PORTLAND, OREGON 1851

Bull Run Filtration Facility

Land Use Plans

Proposed Conditions Site Plan

SAP Project No W02229

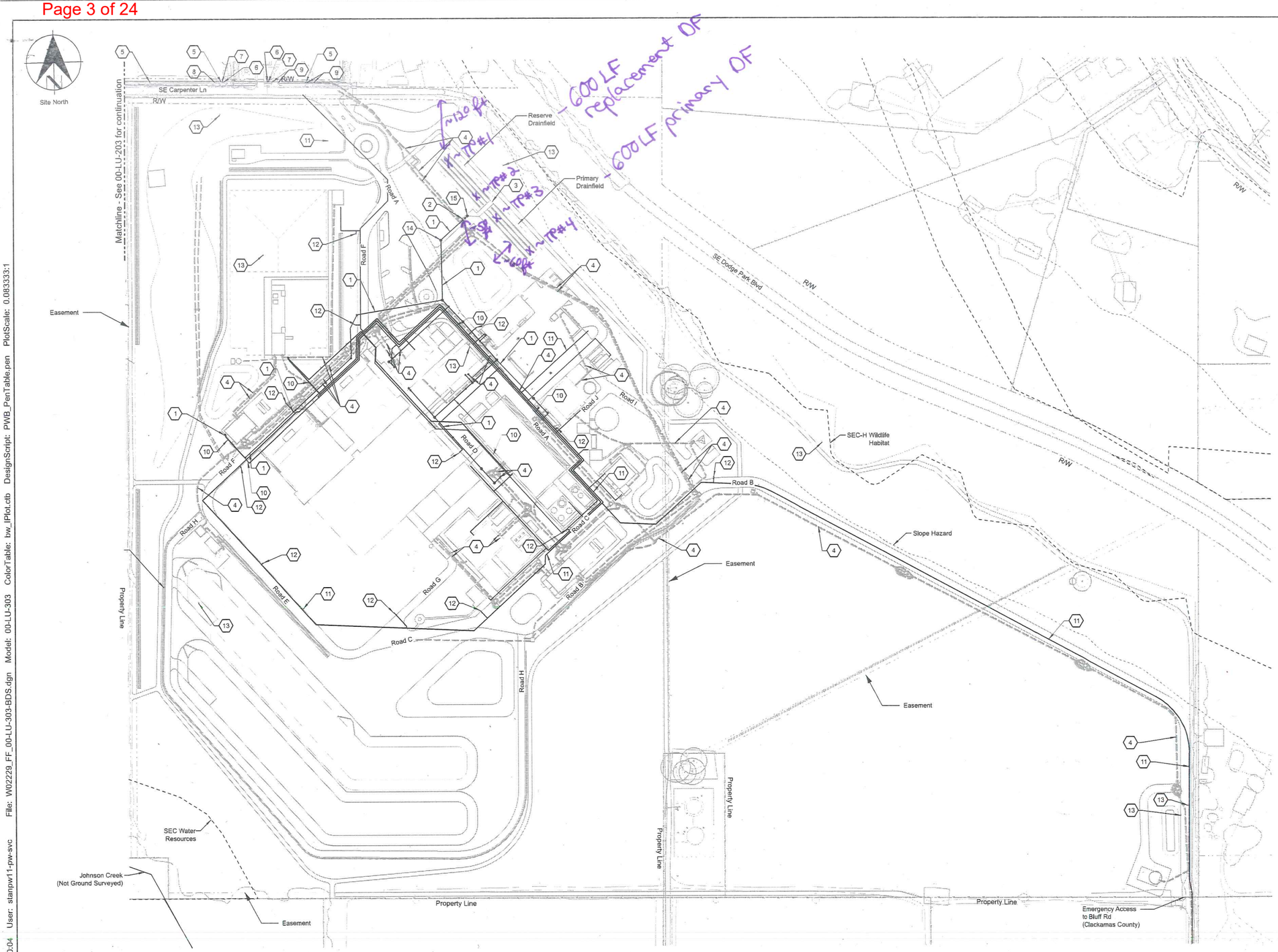
1/4 Section -

Sheet No 00-LU-302

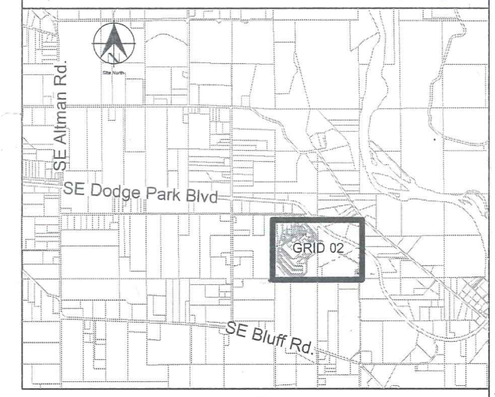
4 of 18

Plot Date: 19-SEP-2022 20:04 User: stanpw11-pw-svc File: W02229-FF-00-LU-302.dgn Model: Layout1 ColorTable: bw_IPlot.ctb DesignScript: PWB_PenTable.pen PlotScale: 0.083333:1

22-160016-SE
Rev 2 LR



KEY PLAN



General Sheet Notes

1. All existing utilities to remain in place and protected during construction unless otherwise shown on plans.
2. See Sheet 00-LU-307 for Stormwater features and pipes.
3. Contractor is responsible for the abandonment of the existing piezometer (monitor well) in accordance with OAR 620-240. The abandonment shall be done by an Oregon State licensed well driller per OAR 690-205.

Sheet Keynotes

1. Sanitary Pipes
2. Septic Tank
3. Septic Drainfield
4. Duct banks
5. Utility Pole
6. Water Meter
7. Mailbox
8. Gas Valve
9. Light Pole
10. Potable Water
11. Fire Water
12. Fire Hydrant
13. Monitor Well
14. Septic Sewer Lift Station
15. Septic Dosing Tank

Legend

- Fire Water
- Potable Water
- Utility Water
- Duct Bank
- Sanitary Pipes
- SEC Zone
- Geohazard
- Deciduous Tree
- Evergreen Tree
- Existing Water Line
- Existing Fence
- Existing Gas Line
- Existing Overhead line
- Existing Structure
- Existing Edge of Vegetation
- Property Line
- Right-of-Way
- Easement
- Ditch
- Water Valve
- Utility Pole
- Sanitary Maintenance Hole
- Edge of Gravel
- Fire Hydrant
- Monitor Well

0 120 240
SCALE IN FEET

No	Date	Description	Appd
C	09/2022	Second Intermediate Design and BCOE Review - 90% Submittal	MRG
B	01/2022	Intermediate Design - 60% Submittal	MRG
A	07/2021	Initial Design - 30% Submittal	MRG

Revision

Survey

Stantec

Designed By		Program Mgr	JSL / BWR
Drawn By		Const Mgr	BS / XXX
Checked By		Const Supvr	RG / XXX
Project Mgr		Date	MRR 09/02/22

Warning
0 ½ 1
If this bar does not measure 1" then the drawing is not to scale

PORTLAND WATER BUREAU
FROM FOREST TO FAUCET

David W. Peters, Engineering Manager, PE No 16683 Date

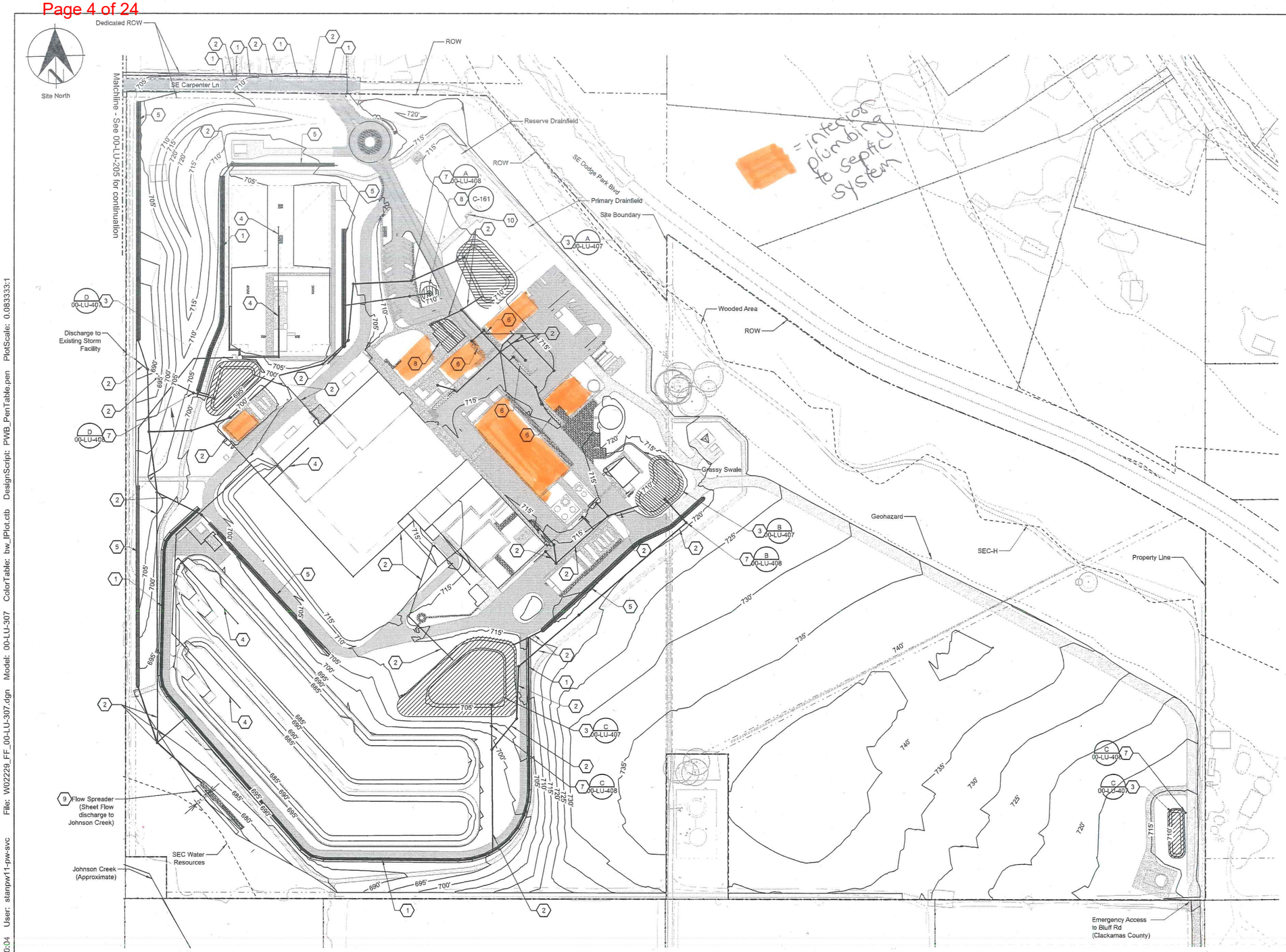
CITY OF PORTLAND OREGON 1851

Bull Run Filtration Facility
Civil
Utility Plan
Filtration Facility

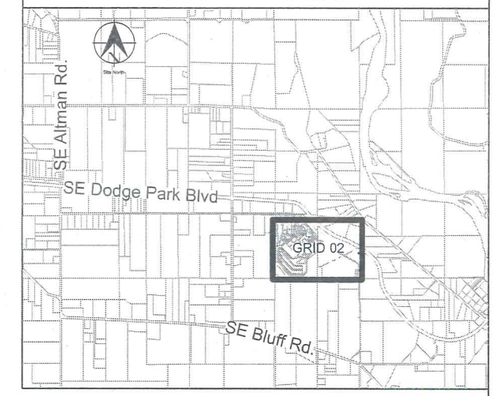
SAP Project No W02229
1/4 Section 3765 / 3766
Sheet No 00-LU-303
3 of 10

Plot Date: 19-SEP-2022 20:04 User: stanpw11-pw-svc File: W02229_FF_00-LU-303-BDS.dgn Model: 00-LU-303 ColorTable: bw_IPlot.ctb DesignScript: PWB_PenTable.pen PlotScale: 0.083333:1

22-160016-SE
Rev 2 LR



KEY PLAN



General Sheet Notes

1. Refer to Filtration Facility Stormwater Report (Appendix H.1) for stormwater calculations and sizing.
2. See 00-LU-304 (Grading Plan) for ground disturbance limits.
3. See 00-LU-306 (Landscape Plan) for propose vegetation.

Sheet Keynotes

1. Drainage Ditch per detail C-169/GEN-C-923
2. Storm Pipes
3. Detention Pond
4. Underdrain Storm Pipe
5. Water Quality Swale per detail C-168/GEN-C-923
6. Stormwater Planter per detail C-162/GEN-C-920
7. Flow Control Maintenance Hole
8. Stormwater Basin per detail C-161/GEN-C-920
9. Outfall Flow Spreader per detail C-171/GEN-C-923
10. Septic Tank

Legend

- Major Contour
- SEC Zone
- Geohazard
- Deciduous Tree
- Evergreen Tree
- Existing Water Line
- Existing Fence
- Existing Gas Line
- Existing Overhead line
- Existing Structure
- Property Line
- Right-of-Way
- Easement
- Ditch
- Detention Pond
- Storm Planter
- Swale/Ditch
- Site Boundary

0 120 240
SCALE IN FEET

No	Date	Description	Appd
C	09/2022	Second Intermediate Design and BCOE Review - 90% Submittal	MRG
B	01/2022	Intermediate Design - 60% Submittal	MRG
A	07/2021	Initial Design - 30% Submittal	MRG

Revision

Survey

Stantec

Designed By	JSL	Program Mgr	MWR
Drawn By	BYS	Const Mgr	TSX
Checked By	RG	Const Supvr	MAX
Project Mgr	MWR	Date 09/02/22	

Warning
0 ½ 1
If this bar does not measure 1" then the drawing is not to scale

PORTLAND WATER BUREAU
FROM FOREST TO FAUCET

David W. Peters, Engineering Manager, PE No 16683

Date

CITY OF PORTLAND OREGON 1851

Bull Run Filtration Facility

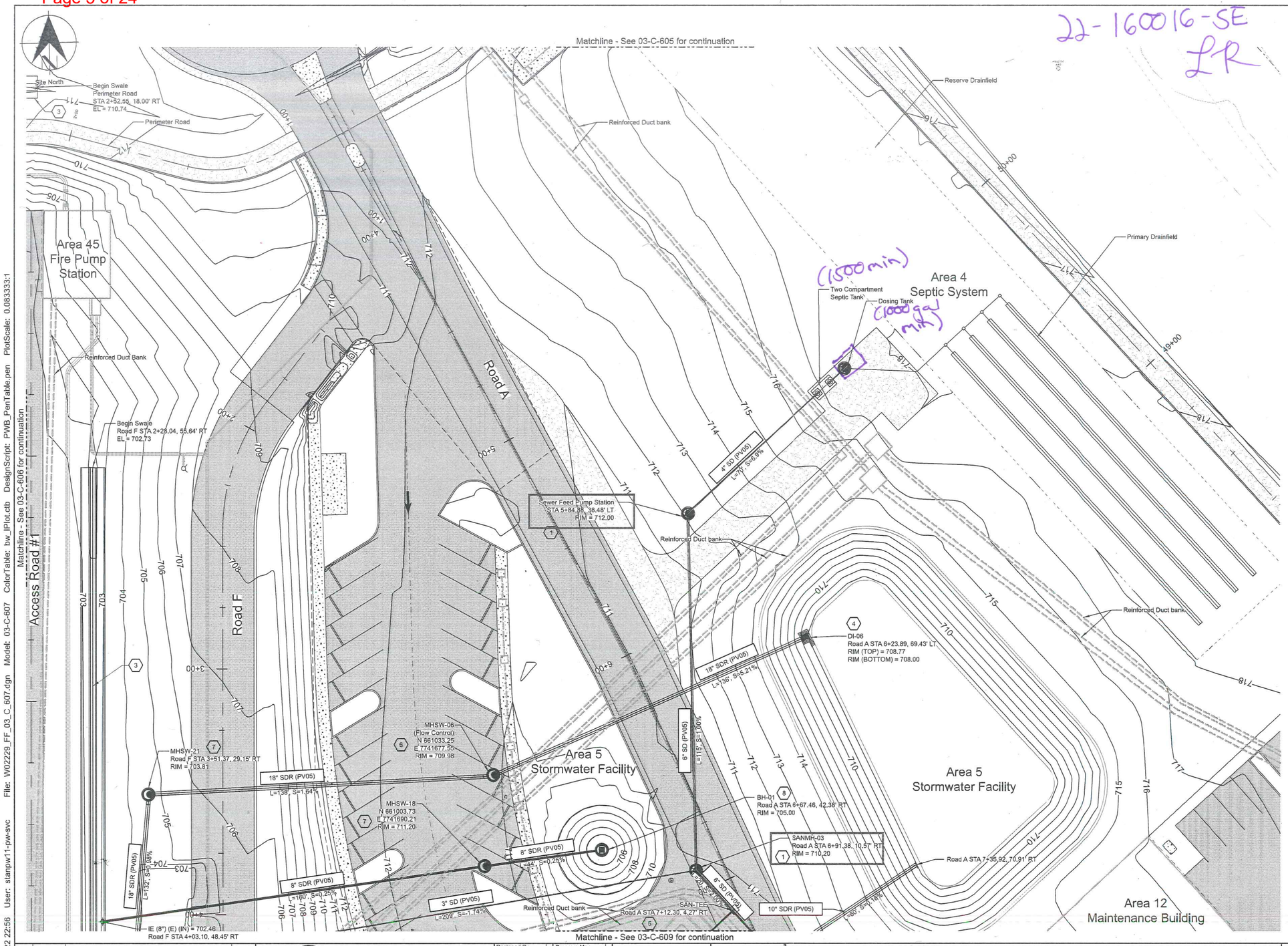
Civil

Stormwater Management Plan
Filtration Facility

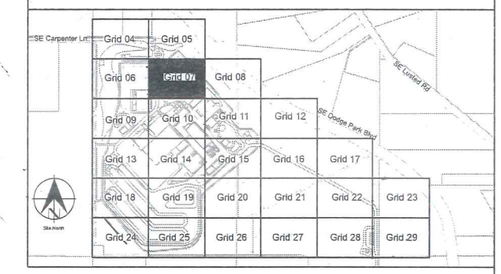
SAP Project No W02229
1/4 Section 3765 / 3766
Sheet No 00-LU-307
3 of 10

Plot Date: 19-SEP-2022 20:04 User: stanpw11-pw-svc File: W02229_FF_00-LU-307.dgn Model: 00-LU-307 ColorTable: bw_IPlot.ctb DesignScript: PWB_PenTable.pen PlotScale: 0.083333:1

22-160016-SE
LR



KEY PLAN



General Sheet Notes

1. Maintain 3' min cover for all piping. Concrete encase piping with less than 3' cover. Maintain 12" min clearance between piping to allow for compaction or backfill with CLSM.
2. See 03-C-300 series for process piping.
3. See 03-E-300 series for duct bank design.
4. See Sheet 03-C-802 for structure elevations.

Sheet Keynotes

1. Standard sanitary sewer maintenance hole per detail C-189 on sheet GEN-C-932.
2. Stormwater pond per detail A/03-C-911.
3. Stormwater swale per detail C-168 on sheet GEN-C-923.
4. Ditch inlet per detail C-173 on sheet GEN-C-924.
5. Tee per detail C-144 on sheet GEN-C-144.
6. Flow control maintenance hole per detailA/03-C-912.
7. Standard storm sewer maintenance hole per detail C-182 on sheet GEN-C-928.
8. Beehive inlet per detail C-166 on sheet GEN-C-922.

Sewage conveyance design submitted for review of connectivity and general arrangement only, and for approval of drainfield sizing and location.

0 20 40
SCALE IN FEET

No	Date	Description	Appd
C	09/2022	Second Intermediate Design and BCOE Review - 90% Submittal	MRG
B	01/2022	Intermediate Design - 60% Submittal	MRG
A	07/2021	Initial Design - 30% Submittal	MRG

Revision

Survey

Stantec
EMERIO ENGINEERING • SURVEYING • DESIGN

Designed By	JSI	Program Mgr	DWP
Drawn By	KRE	Const Mgr	TG
Checked By	LCS	Const Supvr	RM
Project Mgr	MRG	Date 09/02/22	

Warning
0 ½ 1
If this bar does not measure 1" then the drawing is not to scale

PORTLAND WATER BUREAU
FROM FOREST TO FAUCET

David W. Peters, Engineering Manager, PE No 16683

Date

CITY OF PORTLAND OREGON 1851

Bull Run Filtration Facility

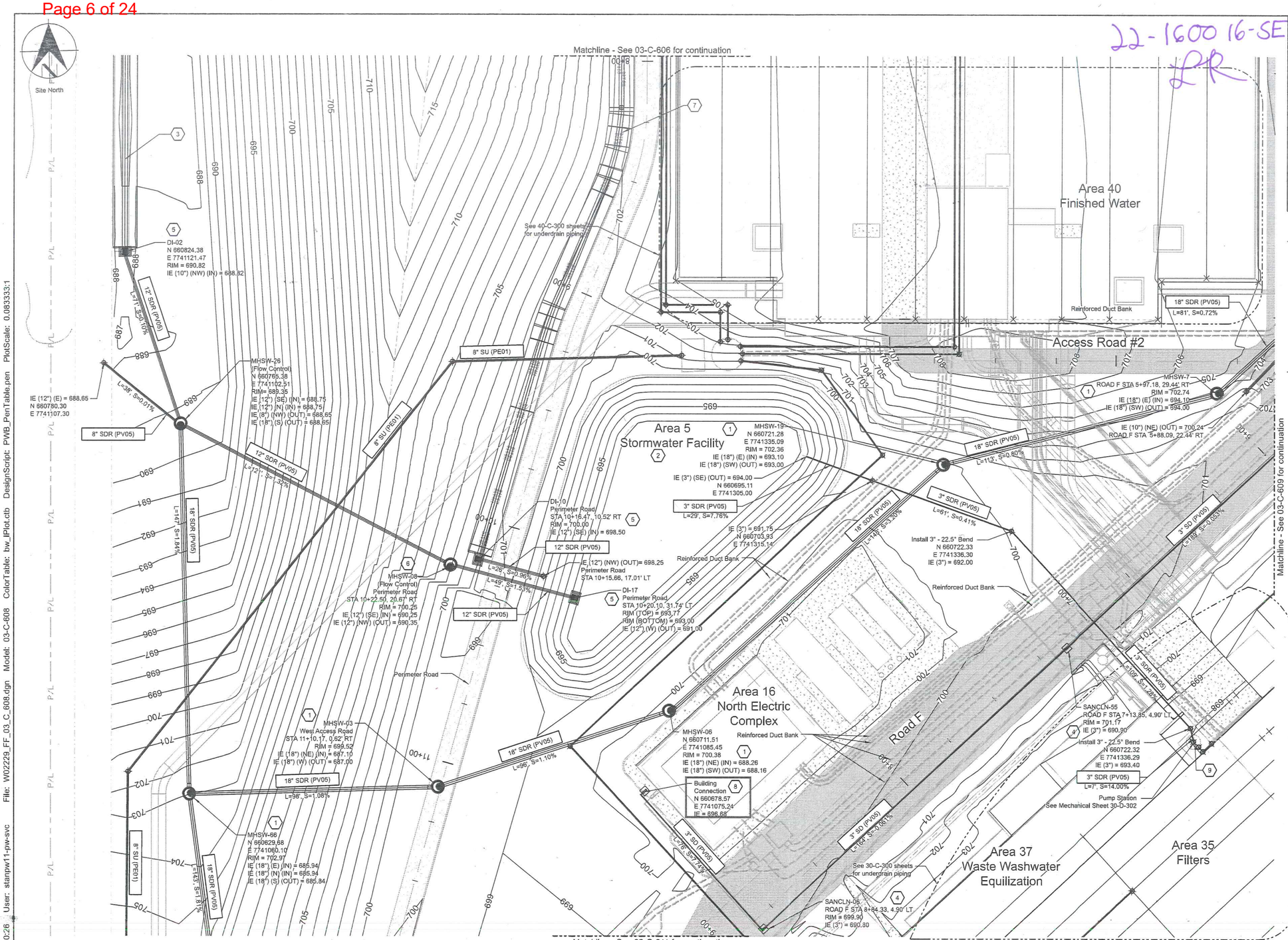
Civil

Utilities
Grid 07

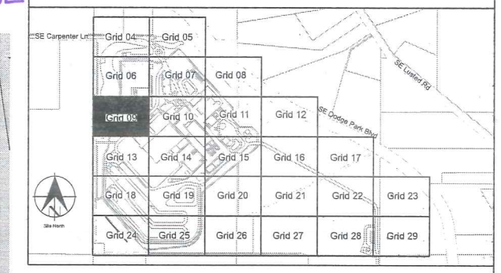
SAP Project No. W02229
1/4 Section 3765 / 3766
Sheet No 03-C-607
XX of XX

Plot Date: 15-SEP-2022 22:56 User: stanpw11-pw-svc File: W02229_FF_03_C_607.dgn Model: 03-C-607 ColorTable: bw_IPlot.ctb DesignScript: PWB_PenTable.pen PlotScale: 0.083333:1

22-1600 16-SE
LR



KEY PLAN



General Sheet Notes

1. Maintain 3' min cover for all piping. Concrete encase piping with less than 3' cover. Maintain 12" min clearance between piping to allow for compaction or backfill with CLSM.
2. See 03-C-300 series for process piping.
3. See 03-E-300 series for duct bank design.
4. See Sheet 03-C-802 fo structure elevations.

Sheet Keynotes

1. Standard storm sewer maintenance hole per detail C-182 on sheet GEN-C-928.
2. Stormwater basin per detail D/03-C-911.
3. Stormwater swale per detail C-168 on sheet GEN-C-923.
4. Cleanout per detail C-174 on sheet GEN-C-925.
5. Ditch inlet per detail C-173 on sheet GEN-C-924.
6. Flow control maintenance hole per detail D/03-C-912.
7. Roadside ditch per detail C-169 on sheet GEN-C-923.
8. Pipe to structure connections per detail C-177 on sheet GEN-C-926
9. Underdrain pump station per detail C-160 on sheet GEN-C-920.

Sewage conveyance design submitted for review of connectivity and general arrangement only, and for approval of drainfield sizing and location.

0 20 40
SCALE IN FEET

No	Date	Description	Appd
C	09/2022	Second Intermediate Design and BCOE Review - 90% Submittal	MRG
B	01/2022	Intermediate Design - 60% Submittal	MRG
A	07/2021	Initial Design - 30% Submittal	MRG

Revision

Survey

Stantec
EMERIO ENGINEERING • SURVEYING • DESIGN

Designed By	JSL	Program Mgr	DWP
Drawn By	KRF	Const Mgr	TG
Checked By	LCS	Const Supvr	RM
Project Mgr	JMCK	Date 09/02/22	

Warning
0 ½ 1
If this bar does not measure 1" then the drawing is not to scale

PORTLAND WATER BUREAU
FROM FOREST TO FAUCET

David W. Peters, Engineering Manager, PE No 16683

Date

CITY OF PORTLAND OREGON 1851

Bull Run Filtration Facility

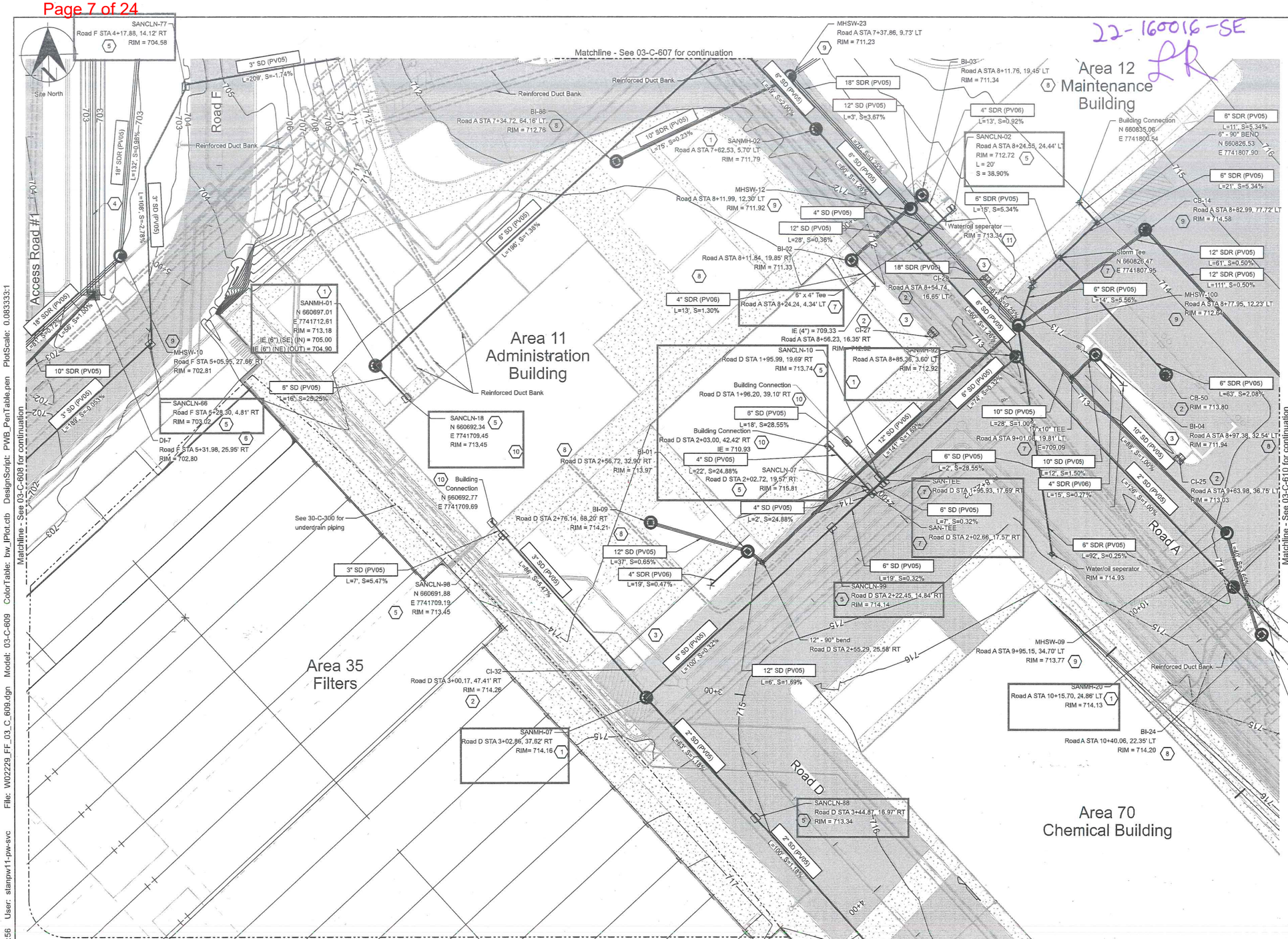
Civil

Utilities
Grid 09

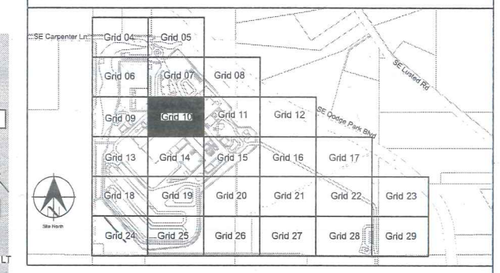
SAP Project No W02229
1/4 Section 3765 / 3766
Sheet No 03-C-608
XX of XX

Plot Date: 7-SEP-2022 00:26 User: stanpw11-pw-svc File: W02229_FF_03_C_608.dgn Model: 03-C-608 ColorTable: bw_IPlot.ctb DesignScript: PWB_PenTable.pen PlotScale: 0.083333:1

22-160016-SE
LR



KEY PLAN



General Sheet Notes

1. Maintain 3' min cover for all piping. Concrete encase piping with less than 3' cover. Maintain 12" min clearance between piping to allow for compaction or backfill with CLSM.
2. See 03-C-300 series for process piping.
3. See 03-E-300 series for duct bank design.
4. See Sheet 03-C-802 for structure elevations.

Sheet Keynotes

1. Standard sanitary sewer maintenance hole per detail C-189 on sheet GEN-C-932.
2. Concrete inlet type metal per detail C-178 on sheet GEN-C-927.
3. Stormwater planter per detail C-162 on sheet GEN-C-921.
4. Stormwater swale per detail C-168 on sheet GEN-C-923.
5. Cleanout per detail C-174 on sheet GEN-C-925.
6. Ditch inlet per detail C-173 on sheet GEN-C-924.
7. Tee per detail C-144 on sheet GEN-C-917.
8. Beehive inlet per detail C-166 in sheet GEN-C-922.
9. Standard storm sewer maintenance hole per detail C-182 on sheet GEN-C-928.
10. Pipe to structure connections per detail C-177 on sheet GEN-C-926 .
11. Oil/water seperator.

Sewage conveyance design submitted for review of connectivity and general arrangement only, and for approval of drainfield sizing and location.

0 20 40
SCALE IN FEET

No	Date	Description	Appd
C	09/2022	Second Intermediate Design and BCOE Review - 90% Submittal	MRG
B	01/2022	Intermediate Design - 60% Submittal	MRG
A	07/2021	Initial Design - 30% Submittal	MRG

Revision

Survey

Stantec
EMERIO ENGINEERING • SURVEYING • DESIGN

Designed By JBL
Drawn By KRF
Checked By LCB
Project Mgr MRG
Program Mgr DWP
Const Mgr TG
Const Supvr RH
Date 09/02/22

Warning
0 ½ 1
If this bar does not measure 1" then the drawing is not to scale

PORTLAND WATER BUREAU
FROM FOREST TO FAUCET

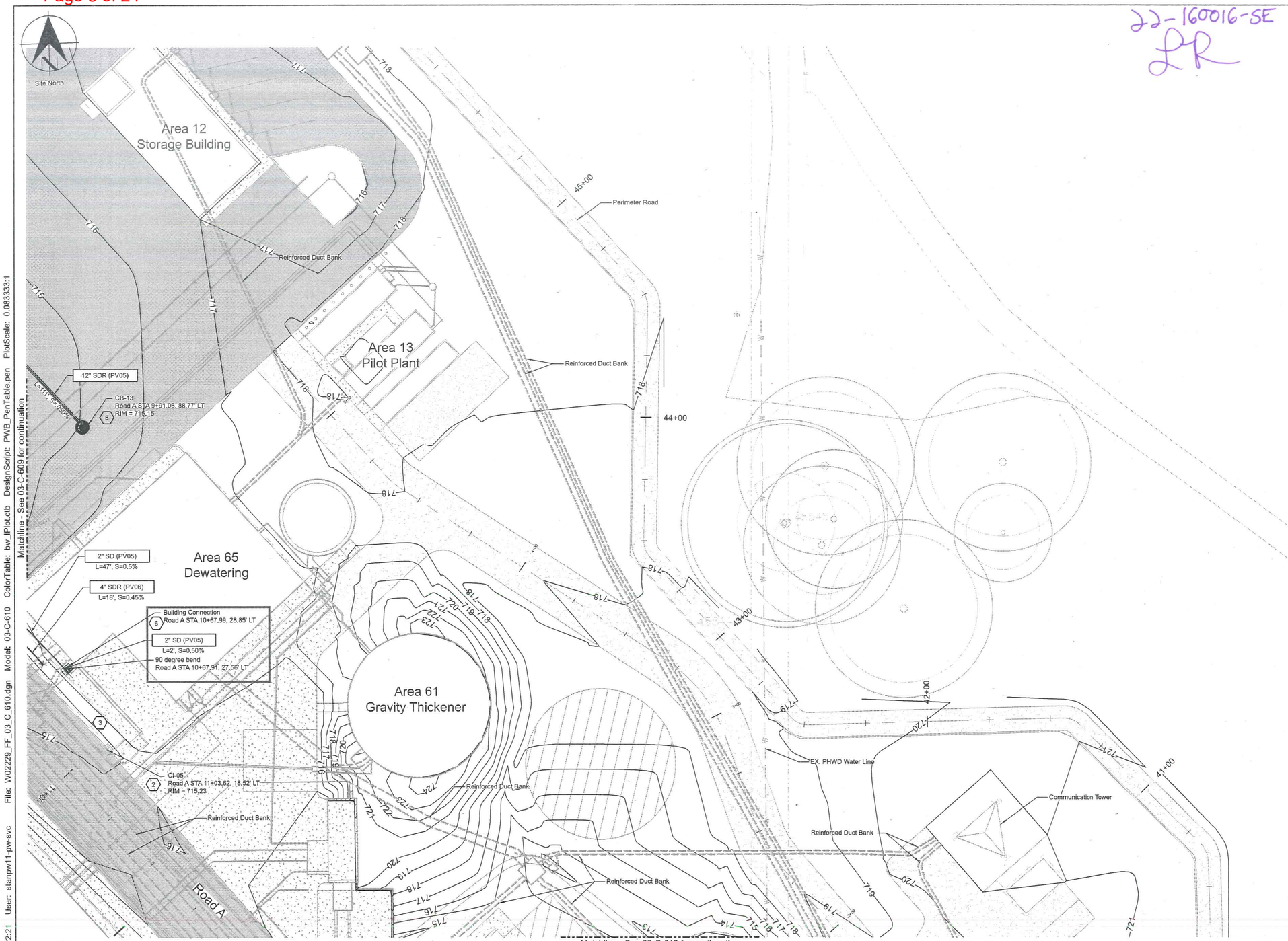
David W. Peters, Engineering Manager, PE No 16683
Date

Bull Run Filtration Facility
Civil
Utilities
Grid 10

SAP Project No W02229
1/4 Section 3765 / 3766
Sheet No 03-C-609
XX of XX

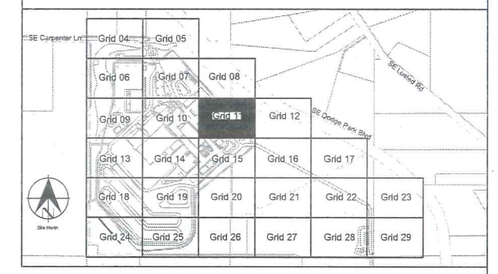
Plot Date: 15-SEP-2022 22:56 User: stanpw11-pw-svc File: W02229_FF_03_C_609.dgn Model: 03-C-609 ColorTable: bw_IPlot.ctb DesignScript: PWB_PenTable.pen PlotScale: 0.083333:1

22-160016-SE
LR



Matchline - See 03-C-609 for continuation

KEY PLAN



General Sheet Notes

1. Maintain 3' min cover for all piping. Concrete encase piping with less than 3' cover. Maintain 12" min clearance between piping to allow for compaction or backfill with CLSM.
2. See 03-C-300 for process piping.
3. See 03-E-300 sheets for ductbank design.
4. See Sheet 03-C-802 for structure elevations.

Sheet Keynotes

1. Standard sanitary sewer maintenance hole per detail C-189 on sheet GEN-C-932.
2. Concrete inlet type metal per detail C-165 on sheet GEN-C-922.
3. Stormwater planter per detail C-162 on sheet GEN-C-920.
4. Cleanout per detail C-174 on sheet GEN-C-925.
5. Catch basin per detail.
6. Pipe to structure connections per detail C-177 on sheet GEN-C-926.

Sewage conveyance design submitted for review of connectivity and general arrangement only, and for approval of drainfield sizing and location.

0 20 40
SCALE IN FEET

No	Date	Description	Appd
C	09/2022	Second Intermediate Design and BCDE Review - 90% Submittal	MRG
B	01/2022	Intermediate Design - 60% Submittal	MRG
A	07/2021	Initial Design - 30% Submittal	MRG

Revision

Survey

Stantec
EMERIO ENGINEERING • SURVEYING • DESIGN

Designed By	JBL	Program Mgr	DWP
Drawn By	KRF	Const Mgr	TG
Checked By	LCS	Const Supvr	RM
Project Mgr	MRG	Date 09/02/22	

Warning
0 ½ 1
If this bar does not measure 1" then the drawing is not to scale

PORTLAND WATER BUREAU
FROM FOREST TO FAUCET

David W. Peters, Engineering Manager, PE No 16683

Date

CITY OF PORTLAND, OREGON 1851

Bull Run Filtration Facility

Civil

Utilities
Grid 11

SAP Project No W02229
1/4 Section 3765 / 3766
Sheet No 03-C-610
XX of XX

Plot Date: 15-SEP-2022 22:21 User: stanpw11-pw-svc File: W02229_FF_03_C_610.dgn Model: 03-C-610 ColorTable: bw_IPlot.ctb DesignScript: PWB_PenTable.pen PlotScale: 0.083333:1

22-160016-SE
LR

Matchline - See 03-C-609 for continuation

Site North

Area 33
Flocculation and
Sedimentation

Core Process Area

2" SD (PV05)
L=160', S=1.10%

2" SD (PV05)
L=49', S=0.10%

1 SANMH-10
Road D STA 5+47.67, 17.54' RT
RIM = 716.22

2 SANCLN-20
Road D STA 4+93.79, 12.80' LT
RIM = 716.00

4 BUILDING CONNECTION
Road D STA 4+93.90, 22.87' LT

2" SD (PV05)
L=11', S=2.54%

2" SD (PV05)
L=28', S=2.54%

Reinforced Duct Bank

Road D

1 SANMH-9
Road D STA 4+93.90, 17.85' RT
RIM = 715.72

Area 31
Flocculation and
Sedimentation

Install 12" - 90° bend
Road D STA 6+18.99, 20.60' RT

6 Storm Tee
Road D STA 6+48.50, 20.60' RT
12"x12"

12" SDR (PV05)
L=4', S=10.36%

3 CB-16
Road D STA 6+19.10, 25.63' RT
RIM = 715.38

Reinforced Duct Bank

12" SDR (PV05)
L=29', S=10.36%

12" SDR (PV05)
L=4', S=2.00%

3 CB-15
Road D STA 6+48.64, 25.63' RT
RIM = 715.38

12" SDR (PV05)
L=50', S=10.36%

4" SDR (PV06)
L=37', S=1.50%

Area 81
Ozone Building

5 Pump Station
See Mechanical Sheet 30-D-301

Reinforced Duct Bank
See Electrical

3 CI-40
Road C STA 5+96.38, 20.68' LT
IE (4") = 713.52
RIM = 715.69

3 CI-39
Road C STA 5+71.38, 20.68' LT
RIM = 716.11

3 CI-38
Road C STA 5+46.38, 20.68' LT
RIM = 716.53

3 CI-37
Road C STA 5+21.17, 20.68' LT
RIM = 716.95

3 CI-36
Road C STA 4+96.25, 20.68' LT
RIM = 717.38

3 CI-35
Road C STA 4+71.38, 20.68' LT
RIM = 718.17

6" SDR (PV05)
L=180', S=0.10%

Road G

Road C

Reinforced Duct Bank
See Electrical

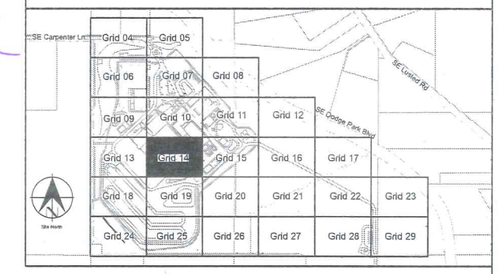
See 30-C-300 sheets
for underdrain piping

Matchline - See 03-C-611 for continuation

Matchline - See 03-C-613 for continuation

Matchline - See 03-C-615 for continuation

KEY PLAN



General Sheet Notes

1. Maintain 3' min cover for all piping. Concrete encase piping with less than 3' cover. Maintain 12" min clearance between piping to allow for compaction or backfill with CLSM.
2. See 03-C-300 series for process piping.
3. See 03-E-300 series for ductbank design.
4. See Sheet 03-C-802 for structure elevations.

Sheet Keynotes

1. Standard sanitary sewer maintenance hole per detail C-182 on sheet GEN-C-928.
2. Cleanout per detail C-174 on sheet GEN-C-925.
3. Concrete inlet type metal per detail C-165 on sheet GEN-C-922.
4. Pipe to structure connections per detail C-177 on sheet GEN-C-926.
5. Underdrain pump station per detail C-160 on sheet GEN-C-920.
6. Tee per detail C-144 on sheet GEN-C-917.

Sewage conveyance design submitted for review of connectivity and general arrangement only, and for approval of drainfield sizing and location.

0 20 40
SCALE IN FEET

No	Date	Description	Appd
C	09/2022	Second Intermediate Design and BCOE Review - 90% Submittal	MRG
B	01/2022	Intermediate Design - 60% Submittal	MRG
A	07/2021	Initial Design - 30% Submittal	MRG

Revision

Survey

Stantec

EMERIO ENGINEERING • SURVEYING • DESIGN

Designed By	JSL	Program Mgr	DWP
Drawn By	KRF	Const Mgr	TG
Checked By	LGS	Const Supvr	RJF
Project Mgr	MRG	Date 09/02/22	

Warning
0 ½ 1
If this bar does not measure 1" then the drawing is not to scale

PORTLAND WATER BUREAU
FROM FOREST TO FAUCET

David W. Peters, Engineering Manager, PE No 16683

Date

CITY OF PORTLAND, OREGON 1851

Bull Run Filtration Facility

Civil

Utilities
Grid 14

SAP Project No
W02229

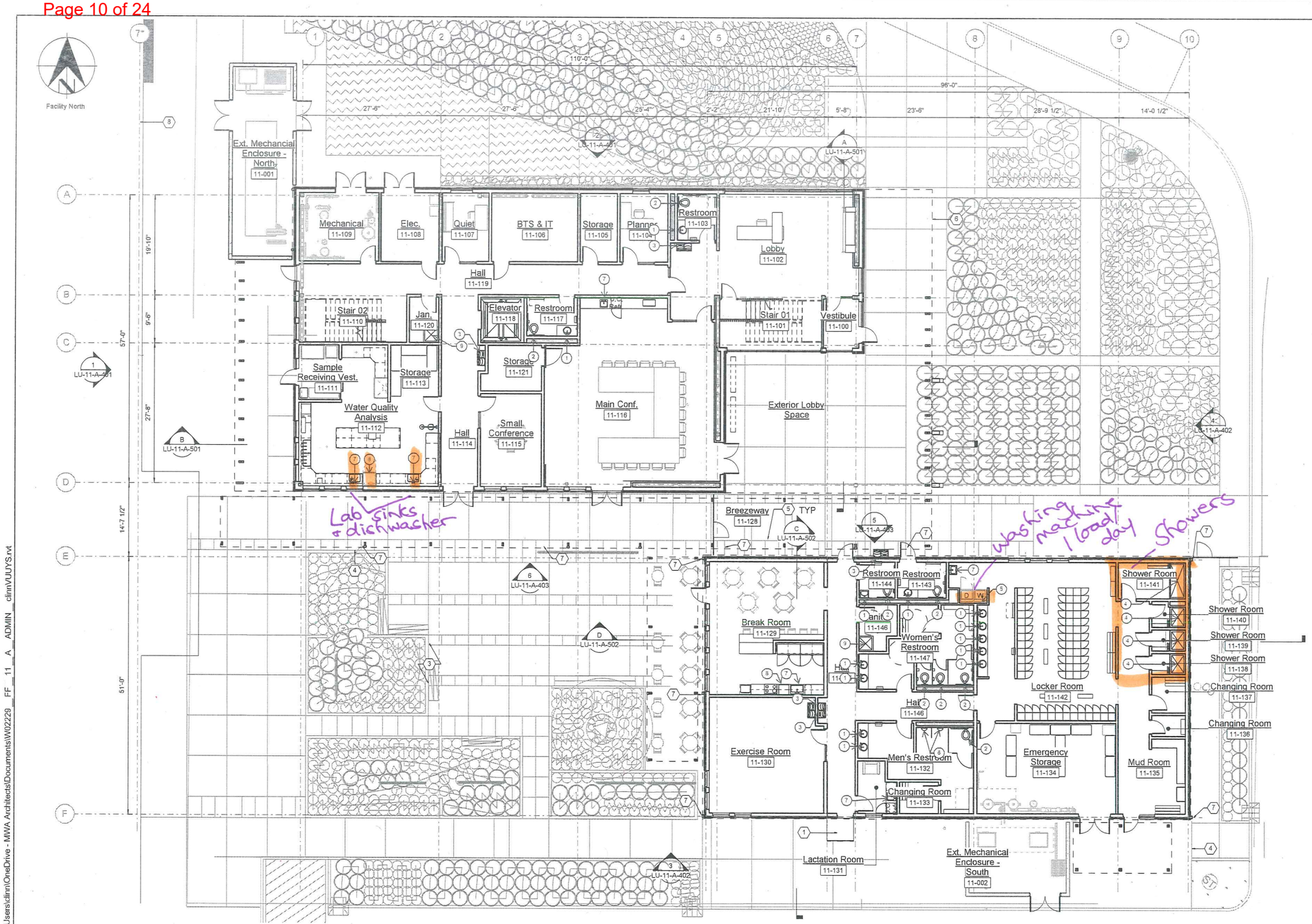
1/4 Section
3765 / 3766

Sheet No
03-C-612

XX of XX

Plot Date: 15-SEP-2022 22:20 User: stanpw11-pw-svc File: W02229_FF_03_C_612.dgn Model: 03-C-612 ColorTable: bw_IPlot.ctb DesignScript: PWB_PenTable.pen PlotScale: 0.083333:1

22-160016-SE
LR



Building # 6
per 00-LU-302

Sheet Keynotes

1. Bent metal canopy above
2. Exterior mechanical area
3. Courtyard
4. Metal framed canopy above
5. Concrete Control Joint
6. Roof edge above
7. Metal downspout
8. Area 30 grid line 7, shown for reference only

Plumbing Fixtures Keynotes

1. Lavatory drain routed to sanitary septic system.
2. Water Closet drain routed to sanitary septic system.
3. Water Cooler drain routed to sanitary septic system.
4. Shower drain routed to sanitary septic system
5. Washing Machine drain routed to sanitary septic system.
6. Urinal drain routed to sanitary septic system.
7. Hand Sink drain routed to sanitary septic system.
8. Dishwasher drain routed to sanitary septic system.
9. Mop sink drain routed to sanitary septic system.

1 / 11-A-101 Overall - First Floor Plan
SCALE: 1" = 10'-0"

LAND USE

C:\Users\dlinn\OneDrive - MWA Architects\Documents\W02229_FF_11_A_ADMIN_dlinnVUUYS.rvt
7/26/2022 4:38:14 PM

No	Date	Description	Appd
		Revision	
Survey			

Stantec
mwa architects

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Designed By	Designer	Program Mgr	
Drawn By	Author	Const Mgr	
Checked By	Checker	Const Supvr	
Project Mgr		Date	

Warning
0 ½ 1
If this bar does not measure 1" then the drawing is not to scale

PORTLAND WATER BUREAU
FROM FOREST TO FAUCET

David W. Peters, Engineering Manager, PE No 18683 — Date

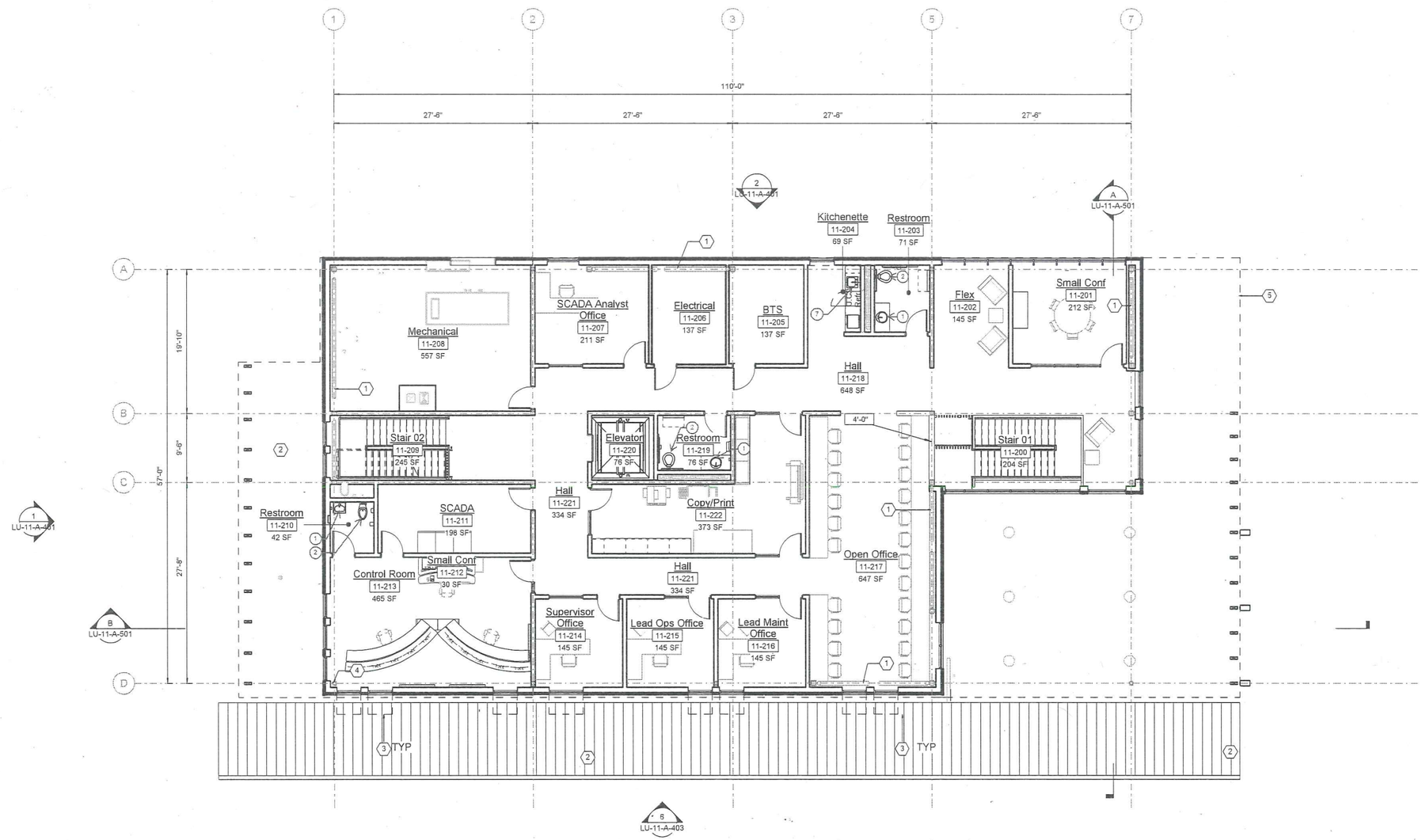
CITY OF PORTLAND, OREGON 1851

Bull Run Filtration Facility
Architectural
Administration Building
Overall First Floor Plan

SAP Project No W02229
1/4 Section 3765 / 3766
Sheet No LU-11-A-302
of

22-160016-SE
LR

Facility North



1 / 11-A-103 Second Floor - Offices/Lab

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

Sheet Keynotes

1. Brace frame - see structural drawings
2. Metal framed canopy below
3. Fixed aluminum storefront sunshade above
4. Steel post - see structural drawings
5. Roof edge above

Plumbing Fixtures Keynotes

1. Lavatory drain routed to sanitary septic system.
2. Water Closet drain routed to sanitary septic system.
3. Water Cooler drain routed to sanitary septic system.
4. Shower drain routed to sanitary septic system.
5. Washing Machine drain routed to sanitary septic system.
6. Urinal drain routed to sanitary septic system.
7. Hand Sink drain routed to sanitary septic system.
8. Dishwasher drain routed to sanitary septic system.
9. Mop sink drain routed to sanitary septic system.

All plumbing fixtures on this floor office/visitor use

LAND USE

C:\Users\clinn\OneDrive - MWA Architects\Documents\W02229_FF_11_A_ADMIN_clinnVUUYS.rvt

6/20/2022 11:30:01 AM

No	Date	Description	Appd
		Revision	
Survey		XXXX	

Stantec

mwa architects

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Designed By	Designer	Program Mgr	
Drawn By	Author	Const Mgr	
Checked By	Checker	Const Supvr	
Project Mgr		Date	

Warning
0 ½ 1
If this bar does not measure 1" then the drawing is not to scale

PORTLAND WATER BUREAU
FROM FOREST TO FAUCET

David W. Peters, Engineering Manager, PE No 15683

Date

Bull Run Filtration Facility

Architectural

Administration Building

Second Floor Plan - Offices/Lab

SAP Project No W02229

1/4 Section 3765 / 3766

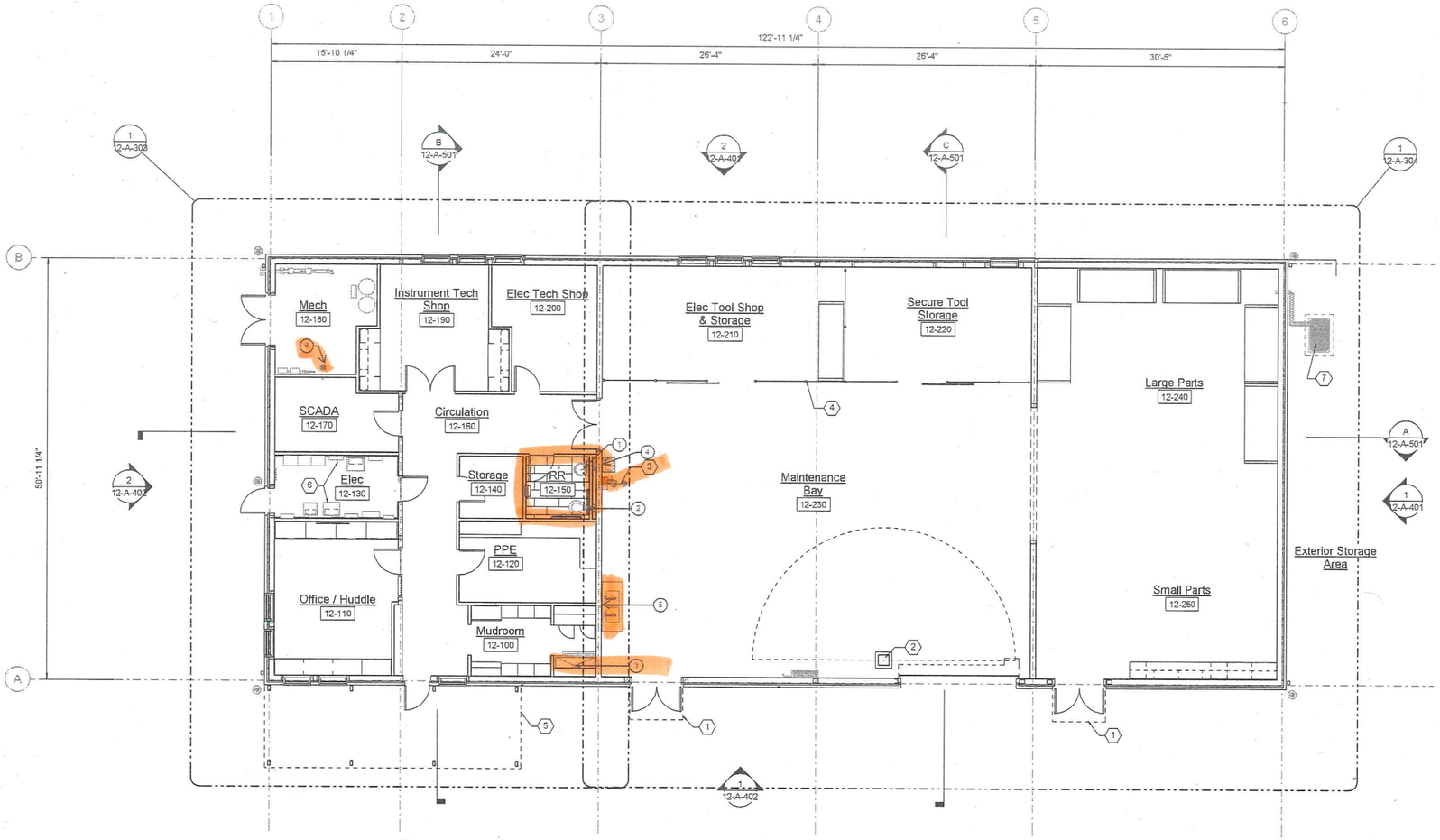
Sheet No LU-11-A-305

of

22-160016-SE

LR

Facility North



General Sheet Notes

1. Dimensions are to the face of stud or concrete as shown (UNO).
2. Verify all dimensions in the field before the start of work. Alert the Architect to any discrepancies before progressing.
3. See specification Section 090000 for interior room finish schedule. Exposed structural elements are intended to be painted (UNO).
4. See enlarged floor plans (as applicable) for dimensions, wall assembly types, and door types. See exterior elevations for exterior window types and interior elevations for interior window types.
5. Fire blocking will be provided per Oregon Structural Specialty Code, Section 718.

Sheet Keynotes

1 Bent metal canopy
2 Jib Crane
3 Emergency Eyewash Shower
4 Chainlink Fence and Gate
5 Metal Framed Canopy
6 Electrical Equipment
7 HVAC Equipment

Plumbing Fixtures Keynotes

1. Lavatory drain routed to sanitary septic system.
2. Water Closet drain routed to sanitary septic system.
3. Mop sink drain routed to sanitary septic system.
4. Hand Sink drain routed to oil/water separator and sanitary septic system.
5. Stainless Steel Sink drain routed to oil/water separator and sanitary septic system.
6. Floor Drain routed to sanitary septic system.

Building #7 per 00-LU-302

1 / 12-A-401 Level 1 - Floor Plan

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

BIM 360://Bull Run Filtration Facility/W02229_FF__12__A.rvt

7/6/2022 2:15:22 PM

No	Date	Description	Appd
		Revision	
Survey		XXXX	

Stantec

STRONGWORK ARCHITECTURE

mwa architects

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Designed By	AA	Program Mgr	
Drawn By	SD	Const Mgr	
Checked By	Checker	Const Supvr	
Project Mgr		Date	

Warning

0 ½ 1

If this bar does not measure 1" then the drawing is not to scale

PORTLAND WATER BUREAU

FROM FOREST TO FAUCET

David W. Peters, Principal Engineer, PE No 16683

Date

CITY OF PORTLAND, OREGON 1851

Bull Run Filtration Facility

Architectural

Maintenance Building

First Floor Plan - Maintenance Building

SAP Project No W02229

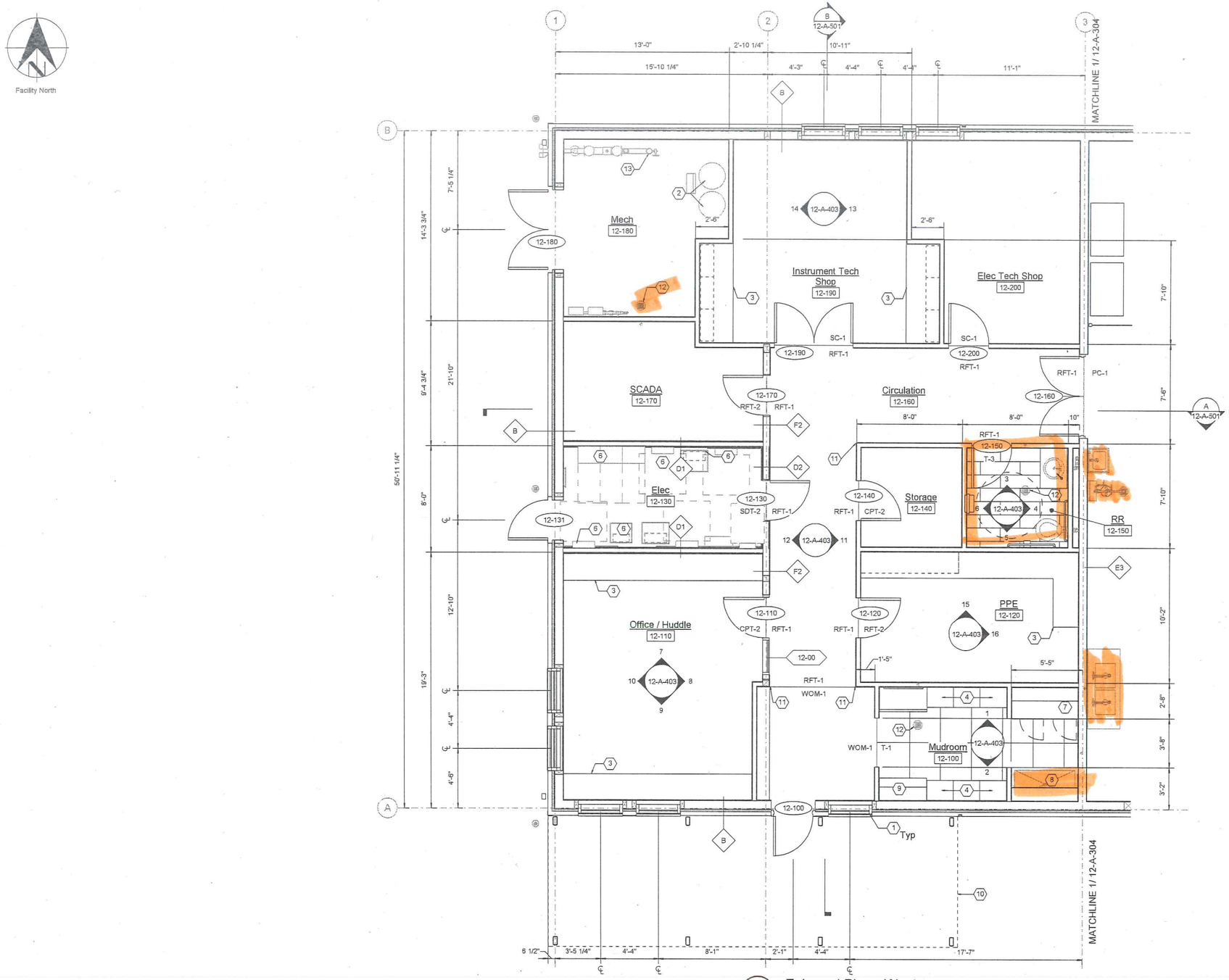
1/4 Section 3765 / 3766

Sheet No 12-A-302

of

22-160016-SE

LR



1 12-A-302 Enlarged Plan - West

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

General Sheet Notes

1. Typical interior wall type F1 (UNO).
2. Dimensions are to face of stud, concrete, CMU, and centerline of walls, columns, doors and windows (UNO).
3. Door rough openings are centered on wall or 5" from edge of framed wall (UNO).
4. See code plans for locations of fire rated wall assemblies. See sheet A-104 for wall types.
5. Fire-stop penetrations at all rated wall assemblies.
6. See A-107 for Interior finish schedule.
7. All exterior opening dimensions are rough openings. See sheet A-105 & A-106 for door and windows schedule and types.
8. See equipment plan for more information.
9. Electrical, mechanical, and plumbing elements shown for reference only.

Sheet Keynotes

1	Aluminum storefront system, see elevations
2	Water heaters
3	Casework
4	Lockers
6	Electrical equipment
7	Counterop and shelves over dishwasher
8	Mopsink
9	Built-in-bench
10	Metal framed canopy
11	Corner guard
12	Floor drain, see plumbing
13	Fire riser

BIM 360://Bull Run Filtration Facility/W02229__FF__12__A.rvt

7/6/2022 2:15:24 PM

No	Date	Description	Appd
		Revision	
Survey		XXXX	

Stantec

STRONGWORK ARCHITECTURE

mwa architects

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Designed By	AA	Program Mgr	
Drawn By	SD	Const Mgr	
Checked By	Checker	Const Supvr	
Project Mgr		Date	

Warning

0 ½ 1

If this bar does not measure 1" then the drawing is not to scale

PORTLAND WATER BUREAU

FROM FOREST TO FAUCET

David W. Peters, Principal Engineer, PE No 16683

Date

CITY OF PORTLAND OREGON 1851

Bull Run Filtration Facility

Architectural

Maintenance Building

Enlarged Plan - Maintenance Building - West

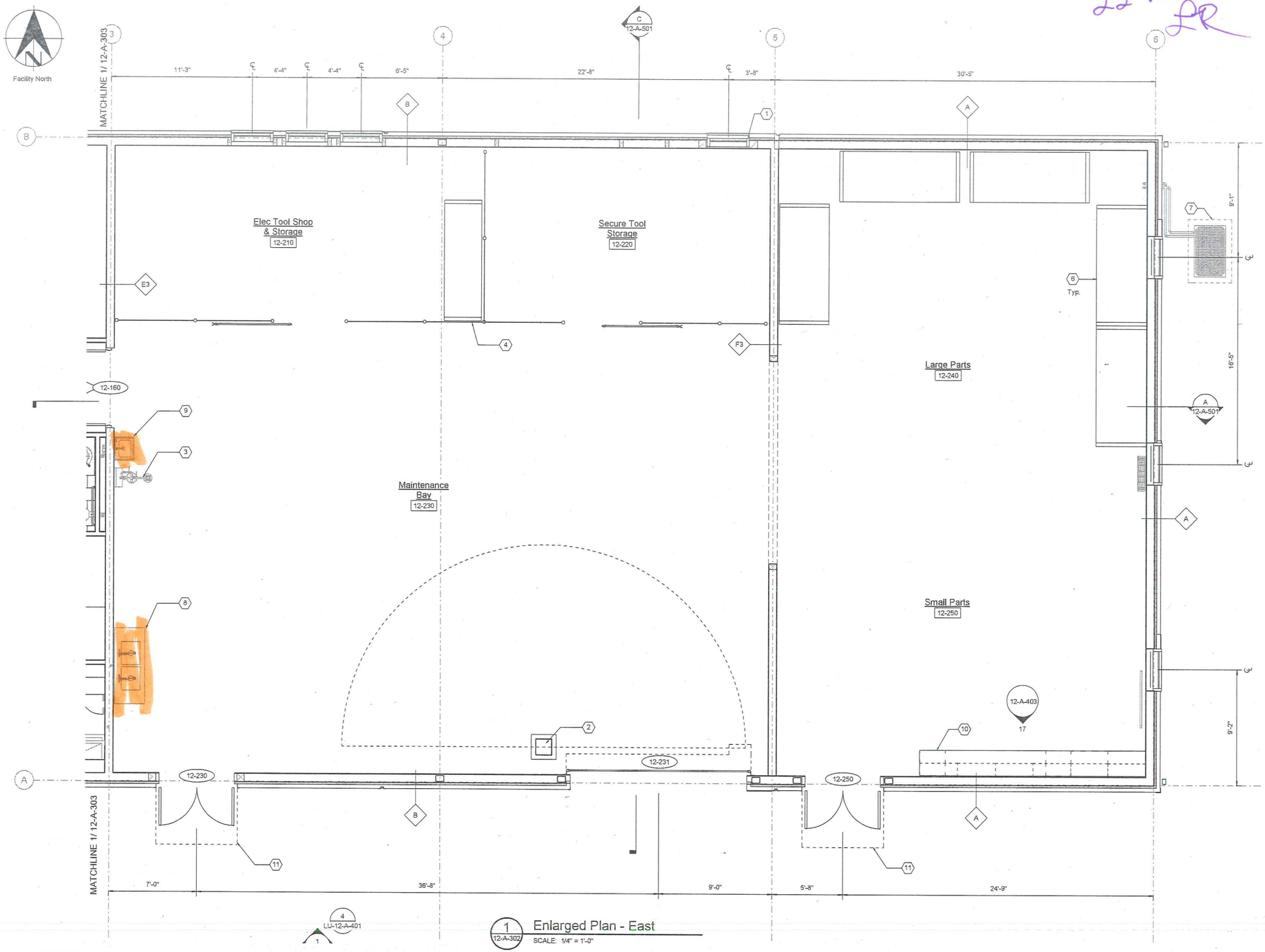
SAP Project No W02229

1/4 Section 3765 / 3766

Sheet No 12-A-303

of

22-160016-SE
LR



1 / 12-A-302 Enlarged Plan - East

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

General Sheet Notes

1. Dimensions are to face of stud, concrete, CMU, and centerline of walls, columns, doors and windows, uno.
2. Door rough openings are centered on wall or 5" from edge of framed wall uno.
3. See code plans for locations of fire rated wall assemblies. See sheet A-104 for wall types.
4. Fire-stop penetrations at all rated wall assemblies.
5. See A-107 for Interior finish schedule.
6. All exterior opening dimensions are rough openings. See sheet A-105 & A-106 for door and windows schedule and types.
7. See equipment plan for more information.
8. Electrical, mechanical, and plumbing elements shown for reference only.

Sheet Keynotes

1	Aluminum storefront system - see elevations
2	Jib crane
3	Emergency eyewash shower
4	Chainlink fence and sliding gate
6	Pallet rack
7	HVAC equipment
8	Stainless steel sink - see plumbing
9	Stainless steel hand sink - see plumbing
10	Casework
11	Bent metal canopy

BIM 360://Bull Run Filtration Facility/W02229_FF_12_A.rvt

7/6/2022 2:15:25 PM

No	Date	Description	Appd
		Revision	
Survey		XXXX	

Stantec

STRONGWORK ARCHITECTURE

mwa architects

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Designed By	AA	Program Mgr	
Drawn By	SD	Const Mgr	
Checked By	Checker	Const Supvr	
Project Mgr		Date	

Warning
0 ½ 1
If this bar does not measure 1" then the drawing is not to scale

PORTLAND WATER BUREAU
FROM FOREST TO FAUCET

David W. Peters, Principal Engineer, PE No 16683

Date

CITY OF PORTLAND, OREGON 1851

Bull Run Filtration Facility

Architectural

Maintenance Building

Enlarged Plan - Maintenance Building - East

SAP Project No W02229

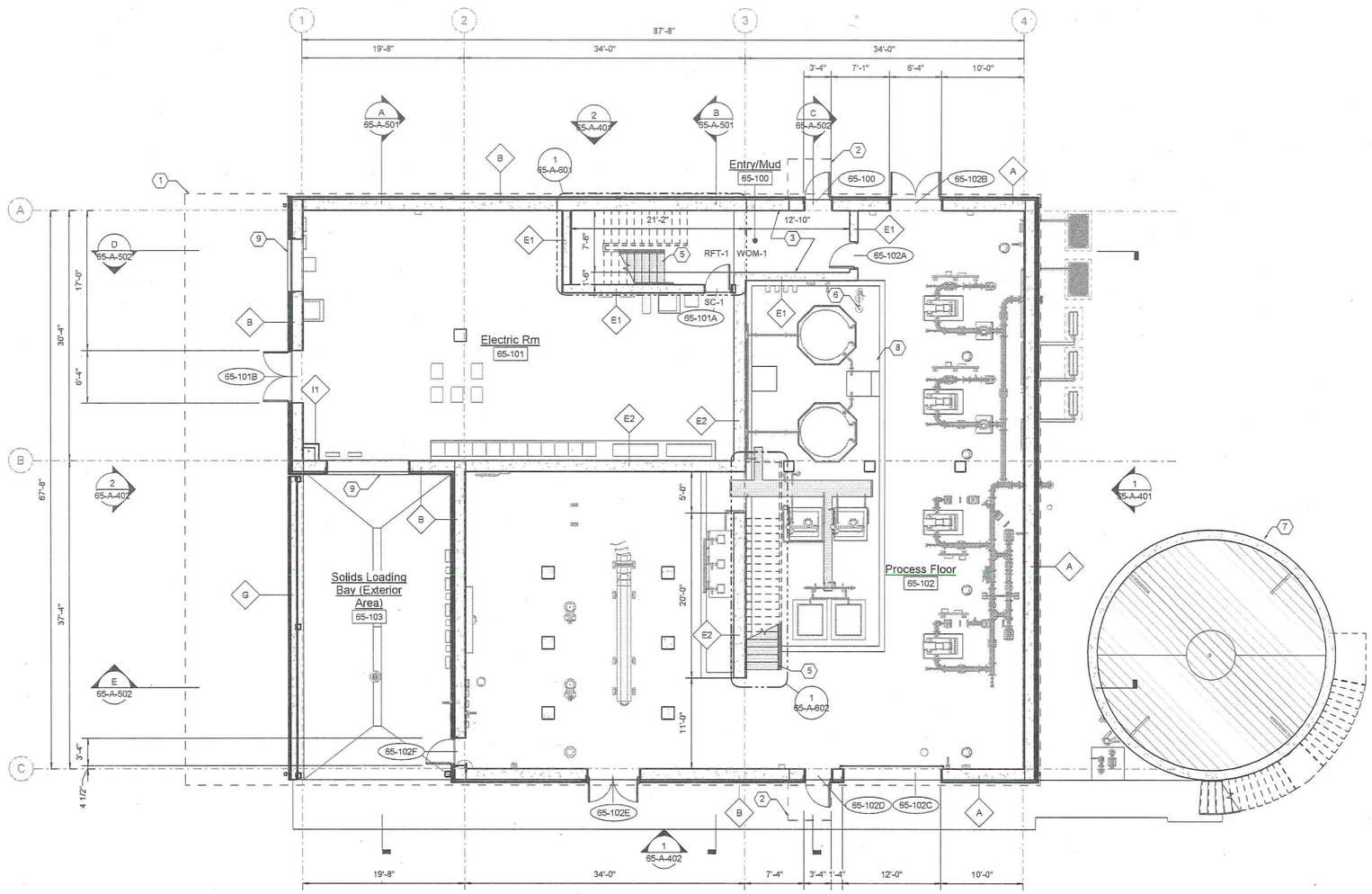
1/4 Section 3765 / 3766

Sheet No 12-A-304

of

22-160016-SE
Rev 2
LR

Facility North



1 65-A-401 Level 1 Floor Plan
SCALE: 1/8" = 1'-0"

General Sheet Notes

1. Dimensions are to the face of stud or concrete as shown (UNO).
2. Verify all dimensions in the field before the start of work. Alert the Architect to any discrepancies before progressing.
3. See specification Section 090000 for interior room finish schedule. Exposed structural elements are intended to be painted (UNO).
4. See enlarged floor plans (as applicable) for dimensions, wall assembly types, and door types. See exterior elevations for exterior window types and interior elevations for interior window types.
5. Fire blocking will be provided per Oregon Structural Specialty Code, Section 718.
6. See structural for concrete wall thicknesses
7. Electrical, mechanical, and plumbing elements shown for reference only. See electrical, mechanical, and plumbing sheets for more information.
8. Process equipment shown in screened linework for reference only.
9. See elevations for more openings and metal panel information.

Sheet Keynotes

1 Line of roof above
2 Canopy above
3 Process mechanical equipment
5 Metal grate stair / railing
6 HVAC equipment
7 Sludge tank, see structural
8 Containment curb, see structural
9 Metal louver

Legend

Unoccupied Area

No plumbing/sani disposal
Level 1

Building #11 per
00-LU-302

BIM 360://Bull Run Filtration Facility/W02229_FF_65_A.rvt

7/6/2022 2:45:51 PM

No	Date	Description	Appd
		Revision	
Survey		XXXX	

Stantec
STRONGWORK ARCHITECTURE
mwa architects

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Designed By	AA	Program Mgr	
Drawn By	SD	Const Mgr	
Checked By	Checker	Const Supvr	
Project Mgr		Date	

Warning
0 ½ 1
If this bar does not measure 1" then the drawing is not to scale

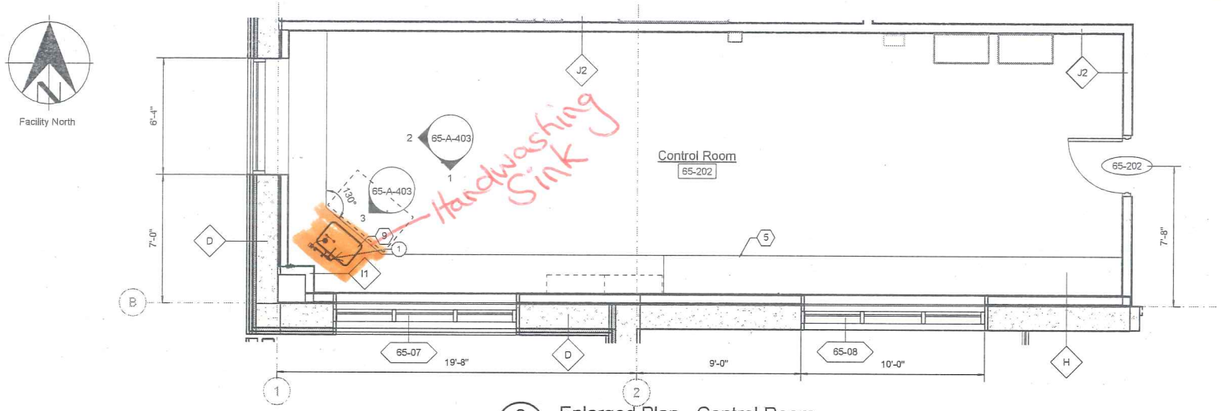
PORTLAND WATER BUREAU
FROM FOREST TO FAUCET

David W. Peters, Principal Engineer, PE No 16683
Date

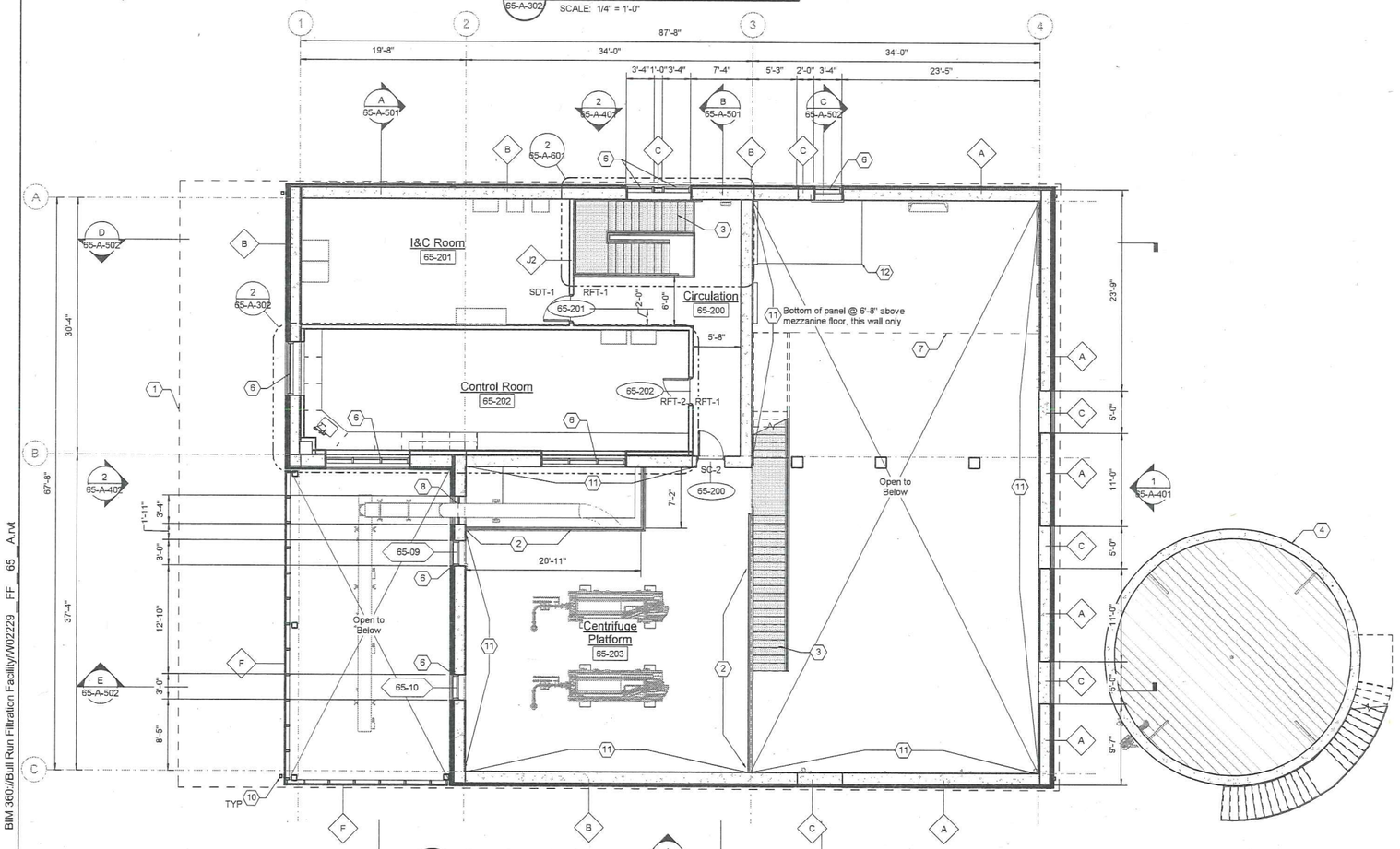
Bull Run Filtration Facility
Architectural
Mechanical Dewatering
Level 1 Floor Plan

SAP Project No W02229
1/4 Section 3765 / 3766
Sheet No 65-A-301
of

22-160016-SE
Rev 2
LR



2 65-A-302 Enlarged Plan - Control Room
SCALE: 1/4" = 1'-0"



1 65-A-401 Level 2 - Floor Plan
SCALE: 1/8" = 1'-0"

General Sheet Notes

1. Dimensions are to the face of stud or concrete as shown (UNO).
2. Verify all dimensions in the field before the start of work. Alert the Architect to any discrepancies before progressing.
3. See specification Section 090000 for interior room finish schedule. Exposed structural elements are intended to be painted (UNO).
4. See enlarged floor plans (as applicable) for dimensions, wall assembly types, and door types. See exterior elevations for exterior window types and interior elevations for interior window types.
5. Fire blocking will be provided per Oregon Structural Specialty Code, Section 718.
6. See structural for concrete wall thicknesses
7. Electrical, mechanical, and plumbing elements shown for reference only. See electrical, mechanical, and plumbing sheets for more information.
8. Process equipment shown in screened linework for reference only.
9. See elevations for more openings and metal panel information.

Sheet Keynotes

1	Line of roof above
2	Removable gaurdrail area, in 8'-0" sections
3	Metal grate stair / railing
4	Sludge tank, see structural
5	Casework
6	Aluminum storefront system
7	HVAC platform above
8	Draft curtain
10	Metal downspout
11	Sound-absorbing panels (AWP-4), 75% coverage of wall surface
12	Concrete ceiling below, see structural

Legend

Unoccupied Area

Plumbing Fixtures Keynotes

1 Hand sink drain routed to sanitary septic system.

BIM 360://Bull Run Filtration Facility/W02229_FF_65_A.rvt

7/6/2022 2:45:54 PM

No	Date	Description	Appd

Revision

Survey | XXXX

Stantec

STRONGWORK ARCHITECTURE

mwa architects

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Designed By	AA	Program Mgr	
Drawn By	SD	Const Mgr	
Checked By	Checker	Const Supvr	
Project Mgr		Date	

Warning
0 ½ 1
If this bar does not measure 1" then the drawing is not to scale

PORTLAND WATER BUREAU
FROM FOREST TO FAUCET

David W. Peters, Principal Engineer, PE No 16683

Date

CITY OF PORTLAND OREGON 1851

Bull Run Filtration Facility

Architectural

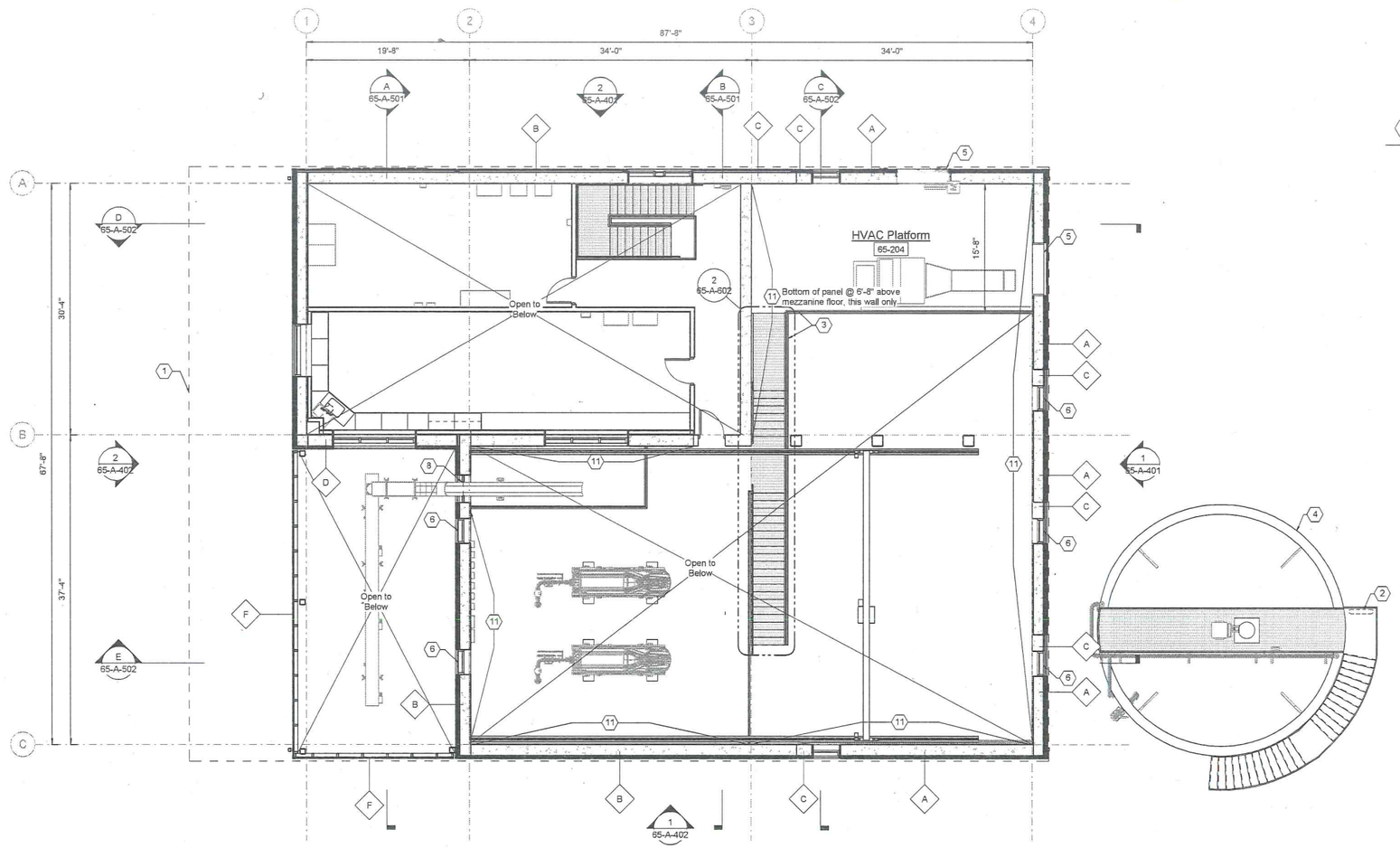
Mechanical Dewatering

Level 2 Floor Plan

SAP Project No W02229
1/4 Section 3765 / 3766
Sheet No 65-A-302
of

22-160016-SE
Rev 2
LR

Facility North



1 65-A-401 HVAC Mezzanine
SCALE: 1/8" = 1'-0"

General Sheet Notes

1. Dimensions are to the face of stud or concrete as shown (UNO).
2. Verify all dimensions in the field before the start of work. Alert the Architect to any discrepancies before progressing.
3. See specification Section 090000 for interior room finish schedule. Exposed structural elements are intended to be painted (UNO).
4. See enlarged floor plans (as applicable) for dimensions, wall assembly types, and door types. See exterior elevations for exterior window types and interior elevations for interior window types.
5. Fire blocking will be provided per Oregon Structural Specialty Code, Section 718.
6. See structural for concrete wall thicknesses
7. Electrical, mechanical, and plumbing elements shown for reference only. See electrical, mechanical, and plumbing sheets for more information.
8. Process equipment shown in screened linework for reference only.
9. See elevations for more openings and metal panel information.

Sheet Keynotes

1 Line of roof above
2 Life safety ring preservor
3 Metal grate stair / railing
4 Sludge tank, see structural
5 Metal louver
6 Aluminum storefront system
11 Sound-absorbing panels (AWP-4), 75% coverage of wall surface

No plumbing/sanitary disposal Level 3

BIM 360://Bull Run Filtration Facility/W02229_FF_65_A.rvt

7/6/2022 2:45:57 PM

No	Date	Description	Appd
		Revision	
Survey		XXXX	

Stantec

STRONGWORK ARCHITECTURE
mwa architects

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Designed By	AA	Program Mgr	
Drawn By	SD	Const Mgr	
Checked By	Checker	Const Supvr	
Project Mgr		Date	

Warning
0 ½ 1
If this bar does not measure 1" then the drawing is not to scale

PORTLAND WATER BUREAU
FROM FOREST TO FAUCET

David W. Peters, Principal Engineer, PE No 16883

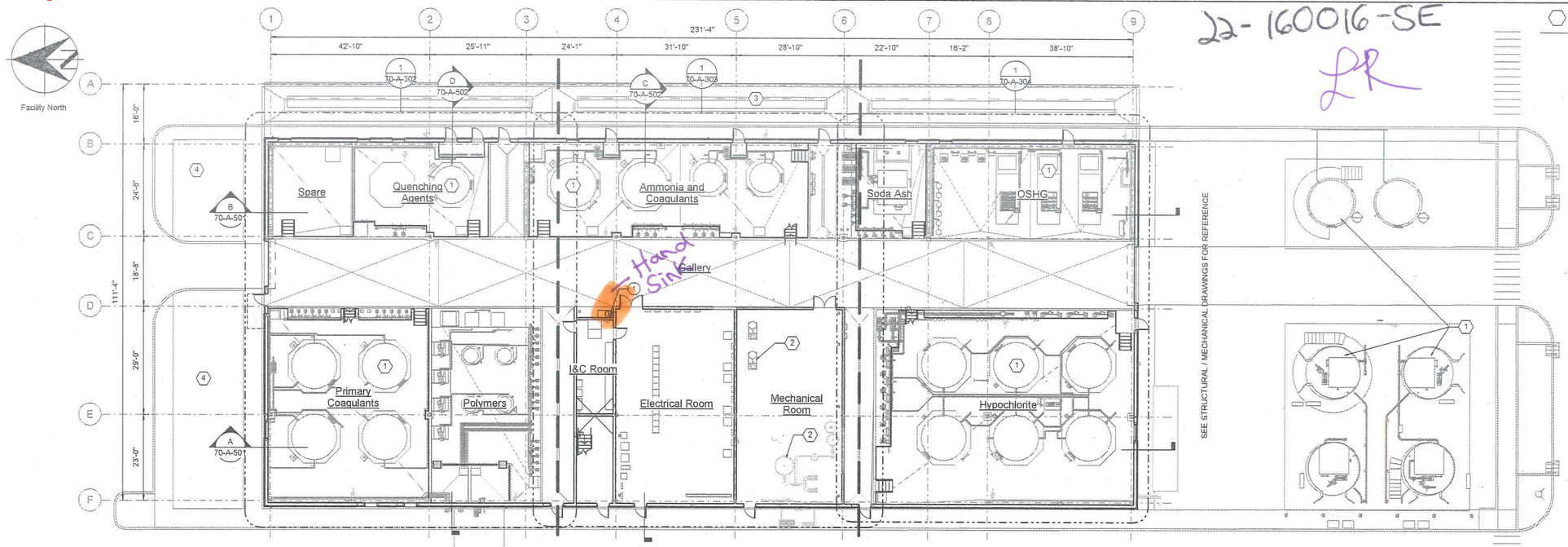
Date

CITY OF PORTLAND OREGON 1851

Bull Run Filtration Facility
Architectural
Mechanical Dewatering
Level 3 Floor Plan

SAP Project No W02229
1/4 Section 3765 / 3766
Sheet No 65-A-303
of

22-160016-SE
LR



Level 1 Overall Floor Plan

SCALE: 1/16" = 1'-0"

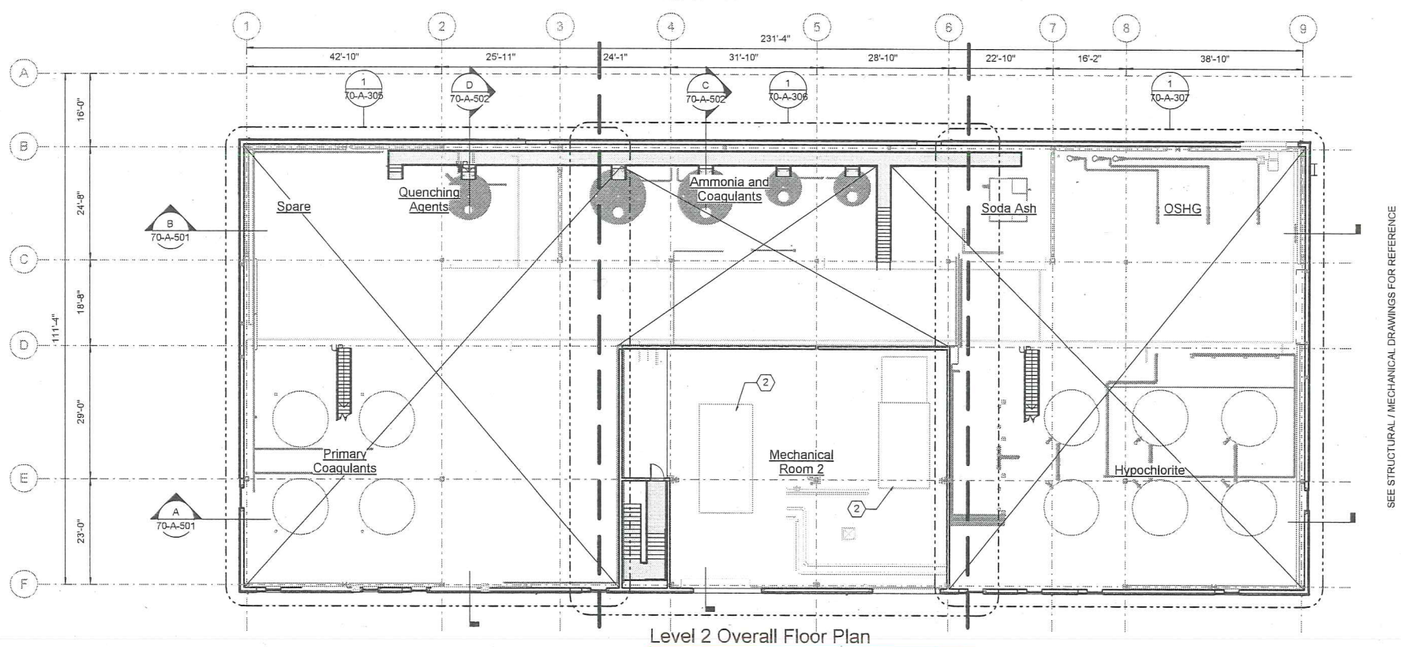
Sheet Keynotes

1. Process mechanical equipment, see process mechanical drawings
2. HVAC equipment, see buiding mechanical drawings
3. Chemical delivery containment area
4. Landscaped area

Plumbing Fixtures Keynotes

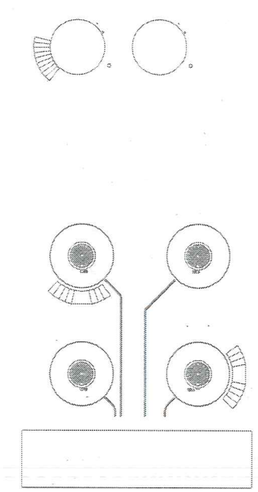
1. Hand sink drain routes to sanitary septic system

Building #12 per 00-20-302



Level 2 Overall Floor Plan

SCALE: 1/16" = 1'-0"



C:\Users\eruzicka\Documents\W02229_FF_70_A_CHEMICAL_eruzickaYVPC.rvt

2022-07-06 11:40:54

No	Date	Description	Appd
		Revision	
Survey		XXXX	

Stantec

mwa architects

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Designed By	JM	Program Mgr	
Drawn By	EB	Const Mgr	
Checked By	Checker	Const Supvr	
Project Mgr		Date	

Warning
0 ½ 1
If this bar does not measure 1" then the drawing is not to scale

PORTLAND WATER BUREAU
FROM FOREST TO FAUCET

David W. Peters, Engineering Manager, PE No 16683

Date

CITY OF PORTLAND OREGON 1851

Bull Run Filtration Facility

Architectural

Chemical Building

Overall Floor Plans

SAP Project No W02229

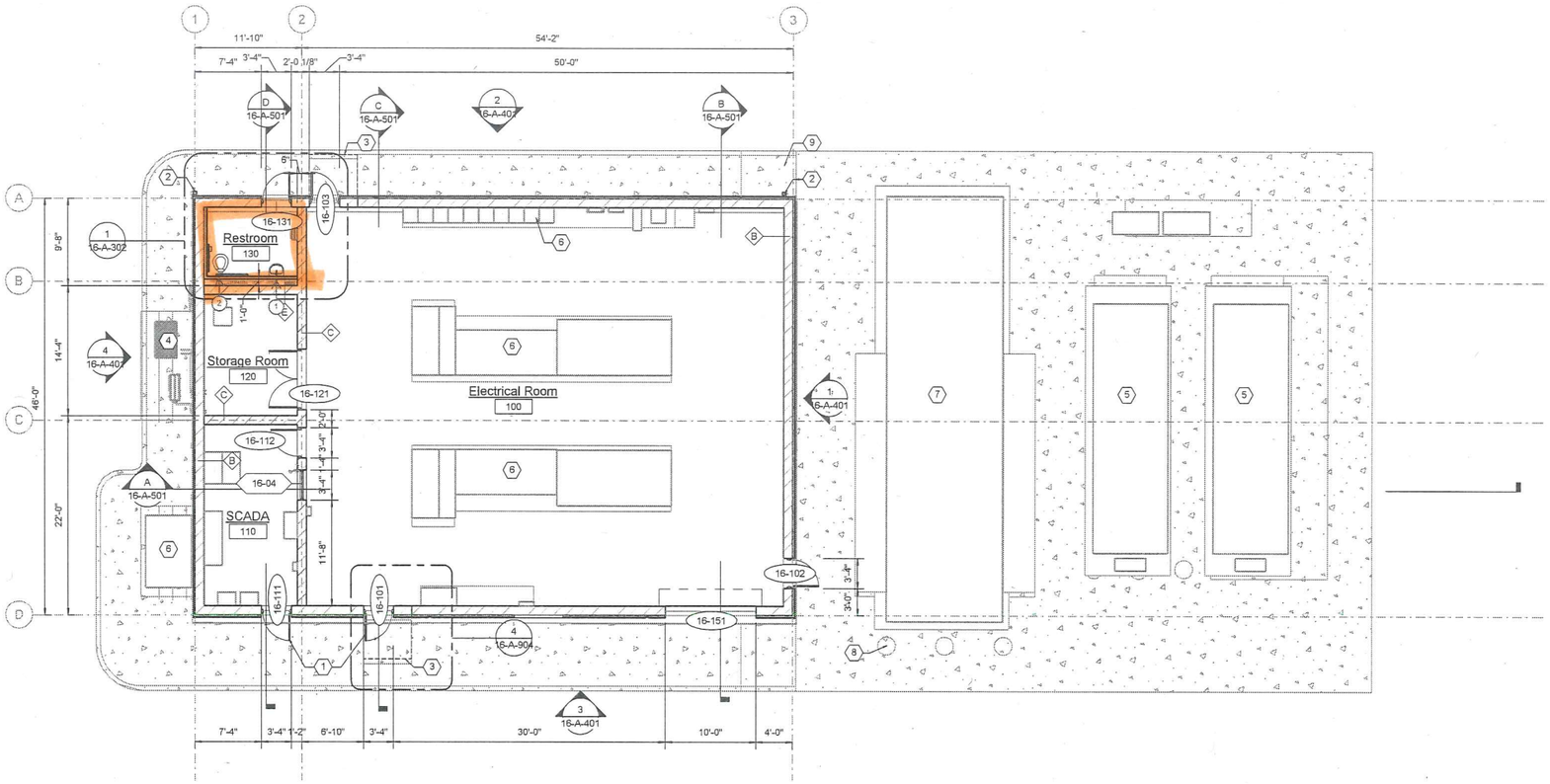
1/4 Section 3765 / 3766

Sheet No 70-A-301

of

22-160016-SE
LR

Facility North



Floor Plan

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

SHEET KEYNOTE

1. Hollow metal door
2. Metal downspout
3. Bent metal canopy
4. HVAC equipment, see process mechanical drawings
5. Fuel tank, see process mechanical drawings
6. Electrical equipment, see electrical drawings
7. Generator, see electrical drawings
8. Bollard, see civil drawings
9. Sidewalk, see civil drawings

Plumbing Fixtures Keynotes

1. Lavatory drain routed to sanitary septic system.
2. Water Closet drain routed to sanitary septic system.

C:\Users\mbenavente\OneDrive - MWA Architects\Documents\W02229_FF_16_A_ELECTRICAL_mbenaventeGAV37.rvt

7/6/2022 1:08:46 PM

No	Date	Description	Appd
		Revision	
Survey		XXXX	

Stantec

mwa architects

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Designed By	JJM	Program Mgr	
Drawn By	RB	Const Mgr	
Checked By	Checker	Const Supvr	
Project Mgr	CH	Date	

Warning
0 ½ 1
If this bar does not measure 1" then the drawing is not to scale

PORTLAND WATER BUREAU
FROM FOREST TO FAUCET

David W. Peters, Principal Engineer, PE No 16683

Date

CITY OF PORTLAND OREGON 1851

Bull Run Filtration Facility

Architectural

North Electrical Complex

Floor Plan

SAP Project No W02229

1/4 Section 3765 / 3766

Sheet No 16-A-301

of

22-160016-SE
Rev 2

Reschke, Lindsey

From: Bowker, Christopher
Sent: Thursday, August 25, 2022 5:17 PM
To: Reschke, Lindsey
Subject: RE: R342619 SE Carpenter Ln Checksheet
Attachments: W02229_FF_00-LU-303-Sanitary Pipes.pdf; W02229_FF_SAN_ELEVS.pdf; R342619 SE Carpenter Ln Checksheet_Completed.pdf; Bull Run - Duplex Sewage Ejector Rev 1.pdf; Designer Septic System Sizing.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

I think based on our conversations the fixtures sizing can be challenging (like comparing apples to oranges). Our designers are identifying GPD based on their experience and LEED guidance (for PGD and usage) but I know you are using a table from DEQ, which I think means you're looking at that number and then adding in fixtures that aren't already built in to that.

I'm forwarding the complete usage table from our designers as well as (tried) to translate this information into the DEQ format. Most of the sinks are for hand washing, so it sounds like they would be built into DEQs numbers, but it would seem the WQ analysis room dishwasher, WQ analysis room sinks, mop sinks, clothes washers, and sinks in maintenance bay fall outside DEQs numbers as they are "extra" fixtures not normally accounted for since they are related to specific spaces/activities(?).

Designer estimates – attached. Includes visitors.

Sizing rationale using DEQ Tables plus loading not included in those DEQ assumptions:

Sizing Rationale				
	Quantity	GPD	Total	Characterized Frequency
employees (12 hr shift)	3	42.5	127.5	Daily 35gpd/8hr + 7.5gpd/4 hr
employees (8 hr shifts)	7	35	245	Daily
Locker washer	~~0.5~~ 1	16	~~8~~ 16	Every other day at most (used .5 days)
Maintenance washer	~~0.5~~ 1	16	~~8~~ 16	Every other day at most (used .5 days)
Water Analysis space - dishwasher	1	5	5	Per designer, a glassware dishwasher uses ~5 gals per wash
Water Analysis space - sinks	2	2.25	4.5	assumed 15 sec duration per use
Mop sink	2	10	20	assumed daily
Sink in Maintenance Bay	3	0.626	~~1.878~~ 6	assumed daily (2 gal per sink x 3 sinks)
Visitors	30	5	150	Less than daily
	Grand	Total	~~569.878~~ 594 gpd	
Table 2 minimum for "Factories (exclusive of industrial wastes — with shower facilities)"		300		

Sink - mech dewater (1) = 2 gpd
Sink - chemical (1) = 2 gpd
Sink - maintenance bay (3) = 6 gpd

22-160016-SE

Reschke, Lindsey

From: Bowker, Christopher
Sent: Thursday, March 31, 2022 1:01 PM
To: Reschke, Lindsey
Subject: RE: R342619 SE Carpenter Ln SER 24-21

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Lindsey,

Any wastes associated with drinking water quality analysis will be collected and stored appropriately (aka containerized) until they can be picked up and removed from the site. These wastes would *not* go to septic in any shape or form.

If I understand past conversations with you, we would still need to account for volumes of water that go to septic from fixtures (such as sinks, dishwashers, etc) not accounted for in the general staff shift numbers, for which I think you have values that you typically use.

Christopher Bowker, P.E.
Civil Engineer
Portland Water Bureau
Phone: 503.823.7464.

From: Reschke, Lindsey <Lindsey.Reschke@portlandoregon.gov>
Sent: Thursday, March 31, 2022 12:44 PM
To: Bowker, Christopher <Christopher.Bowker@portlandoregon.gov>
Subject: RE: R342619 SE Carpenter Ln SER 24-21

Hi Christopher.

I am unclear what "containerization" means...can you help me out?

Thank you,

Lindsey Reschke, WWS | Senior Multnomah County Septic Sanitarian
City of Portland | Bureau of Development Services
Site Development Section | Plan Review Services Division
1900 SW 4th Ave., Suite 5000
Portland, OR 97201

lindsey.reschke@portlandoregon.gov
503-823-8786

Work Hours: Monday-Friday, 7:00AM - 3:30PM

Thank you for your patience during this State of Emergency. For the most current information on the Bureau of Development Services' operations during the COVID-19 pandemic, please visit: https://www.portland.gov/bds

Reschke, Lindsey

From: YELTON-BRAM Tiffany * DEQ <Tiffany.YELTON-BRAM@deq.oregon.gov>
Sent: Wednesday, March 30, 2022 6:06 PM
To: Bowker, Christopher; JOYE Jessica * DEQ
Cc: Wise, Douglas
Subject: Re: For DEQ to determine permitting for wastewater from drinking water lab at the Filtration Plant

Hi Christopher
Sorry for the delay on our part. Jessica and I discussed this and are fine with the concept you describe where no wastewater from the drinking w a ter lab and treatment will go to the septic.
Thanks
Tiffany Yelton-Bram

Sent via the Samsung Galaxy S20 FE 5G, an AT&T 5G smartphone
Get Outlook for Android

From: Bowker, Christopher <Christopher.Bowker@portlandoregon.gov>
Sent: Wednesday, March 30, 2022 4:06:24 PM
To: YELTON-BRAM Tiffany * DEQ <Tiffany.YELTON-BRAM@deq.oregon.gov>; JOYE Jessica * DEQ <Jessica.JOYE@deq.oregon.gov>
Cc: Wise, Douglas <Douglas.Wise@portlandoregon.gov>
Subject: RE: For DEQ to determine permitting for wastewater from drinking water lab at the Filtration Plant

Hello Tiffany and Jessica,

I'm following up to see if you had a chance to review this – is what we've proposed an acceptable solution? If so, please let us know so we can forward confirmation of DEQ approval of this approach to BDS.

Thank you,

Christopher Bowker, P.E.
Civil Engineer
Portland Water Bureau
Phone: 503.823.7464.

From: Bowker, Christopher
Sent: Friday, March 11, 2022 11:23 AM
To: YELTON-BRAM Tiffany * DEQ <Tiffany.YELTON-BRAM@deq.oregon.gov>; JOYE Jessica * DEQ <Jessica.JOYE@deq.oregon.gov>
Cc: Wise, Douglas <Douglas.Wise@portlandoregon.gov>
Subject: RE: For DEQ to determine permitting for wastewater from drinking water lab at the Filtration Plant

Good Morning Tiffany and Jessica,

Apologies for the long wait time. I am writing to follow up on the conversation we were having regarding the septic system for the City of Portland Water Bureau's proposed Filtration Facility. The Portland Water Bureau has determined that the simplest way to address concerns with loading to the proposed septic system is to avoid sending any wastes

associated with drinking water quality analysis to the on-site septic. Our facility design will be refined to allow for adequate and appropriate containerization of this relatively small volume of material.

Traditional domestic-strength wastes commonly generated by commercial buildings, such as sanitary fixtures, sinks & dishwashers, would go to septic and those loads would be accounted for in septic sizing with the County (which defers to BDS). If this is an acceptable solution, please let us know so we can forward confirmation of DEQ approval of this approach to BDS.

Thank you,

Christopher Bowker, P.E.
Civil Engineer
Portland Water Bureau
Phone: 503.823.7464.

From: YELTON-BRAM Tiffany * DEQ <Tiffany.YELTON-BRAM@deq.oregon.gov>
Sent: Tuesday, January 4, 2022 11:40 AM
To: Bowker, Christopher <Christopher.Bowker@portlandoregon.gov>; JOYE Jessica * DEQ <Jessica.JOYE@deq.oregon.gov>
Cc: Wise, Douglas <Douglas.Wise@portlandoregon.gov>
Subject: RE: For DEQ to determine permitting for wastewater from drinking water lab at the Filtration Plant

Thank you very much!

From: Bowker, Christopher <Christopher.Bowker@portlandoregon.gov>
Sent: Tuesday, January 4, 2022 11:38 AM
To: YELTON-BRAM Tiffany * DEQ <Tiffany.YELTON-BRAM@deq.oregon.gov>; JOYE Jessica * DEQ <Jessica.JOYE@deq.oregon.gov>
Cc: Wise, Douglas <Douglas.Wise@portlandoregon.gov>
Subject: RE: For DEQ to determine permitting for wastewater from drinking water lab at the Filtration Plant

Hello Tiffany and Jessica,

Thank you for the follow-up email. PWB staff met this morning to walk through how to get you the information you need to make an assessment. I thought I'd confirm that I will be working with PWB staff to develop a list of anticipated chemicals/products, volumes, and flows associated with the proposed laboratory greywater (and will forward this information once we have it). I will also continue to keep Doug in the loop as we navigate this process.

Thank you,

Christopher Bowker, P.E.
Civil Engineer
Portland Water Bureau
Phone: 503.823.7464.

From: YELTON-BRAM Tiffany * DEQ <Tiffany.YELTON-BRAM@deq.oregon.gov>
Sent: Monday, January 3, 2022 4:58 PM
To: Bowker, Christopher <Christopher.Bowker@portlandoregon.gov>; Wise, Douglas <Douglas.Wise@portlandoregon.gov>

Cc: JOYE Jessica * DEQ <Jessica.JOYE@deq.oregon.gov>
Subject: For DEQ to determine permitting for wastewater from drinking water lab at the Filtration Plant

Hello Christopher and Doug
I am writing to you both to make sure I am understanding the scope of the Filtration Plant project and to keep DEQ and PWB on the same page. Before ethe Christmas holiday, Christopher reached out to a staff person in my section at the request of Lindsey Reschke. The reason for the communication was to determine if wastewater from the lab that will be at the plant can go into the septic system that serves the plant. Lindsey had spoken with Jessica Joye in DEQ's Onsite Septic program so I've cc'd Jessica here. Onsite septic systems are governed by Oregon Administrative Rules 340-071. The definitions in the rules are applied by DEQ staff in the Onsite program and our local government agents. In this case, there is a question about whether the wastewaters from a lab fit the definitions in the rules that cover the wastewaters that can discharged to the septic system. The alternative , if the wastewaters cannot be discharged to septic, are to either cover the discharge as a wastewater under the NPDES permit that will be issued to the filtration plant (which is a modification of the existing NPDES permit issued to PWB that I've discussed with Doug) or PWB can apply for a separate permit from DEQ to allow discharge to ground or surface water after treatment.

To make any sort of assessment, DEQ will need to know more about the wastewater from the lab. As I mentioned to Christopher last Thursday, this is information on about the chemicals and products used in the lab, the volume of those chemicals and products in the water to be discharged and the total volume of wastewater from the lab overall. We'd also like to see any Standard Operating Procedures for handling the wastewaters. I am making an assumption here but I suspect that the current Groundwater Pump Station or other sites in the PWB system have labs like the one proposed for the Filtration Plant. If so, any information from that lab would be a great place to start. Please send the information to me and I will work with the appropriate staff to determine the path forward. I am happy to schedule a meeting after we have an idea of wastewater that needs to be covered. Thank you.

Tiffany Yelton Bram (Pronouns : she/her/hers)
WQ Source Control Manager
Northwest Regional Office
Oregon Department of Environmental Quality
700 NE Multnomah St., Suite #600
Portland OR 97232

Desk 503 229 5219
Mobile 503 975 0046