



Bull Run TREATMENT PROJECTS

Filtration

Technical Memorandum

Subject: Filtration Facility Civil Engineering Drawings – Offsite Improvements

PWB Project #s: W02229

Date: January 26, 2023

To: Lyda Hakes, P.E., Project Manager
Portland Water Bureau

From: Mark Graham, P.E., PMP, Project Manager
Stantec

Prepared by: Rafael Gaeta, P.E.
Emerio Design



in association with

and other firms

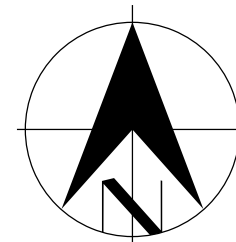
Reviewed by: Mark Graham, P.E.
Stantec

The drawings attached to this technical memorandum (TM) were prepared in support of the City of Portland Water Bureau’s Bull Run Treatment Facilities’ land use applications in Multnomah County. These drawings reflect the current status of the Filtration Facility design, which is approximately 90% complete as of the date of this TM. The drawings have been prepared and compiled for the specific purpose of addressing conformance to Multnomah County land use requirements as expressed in the Multnomah County Code.

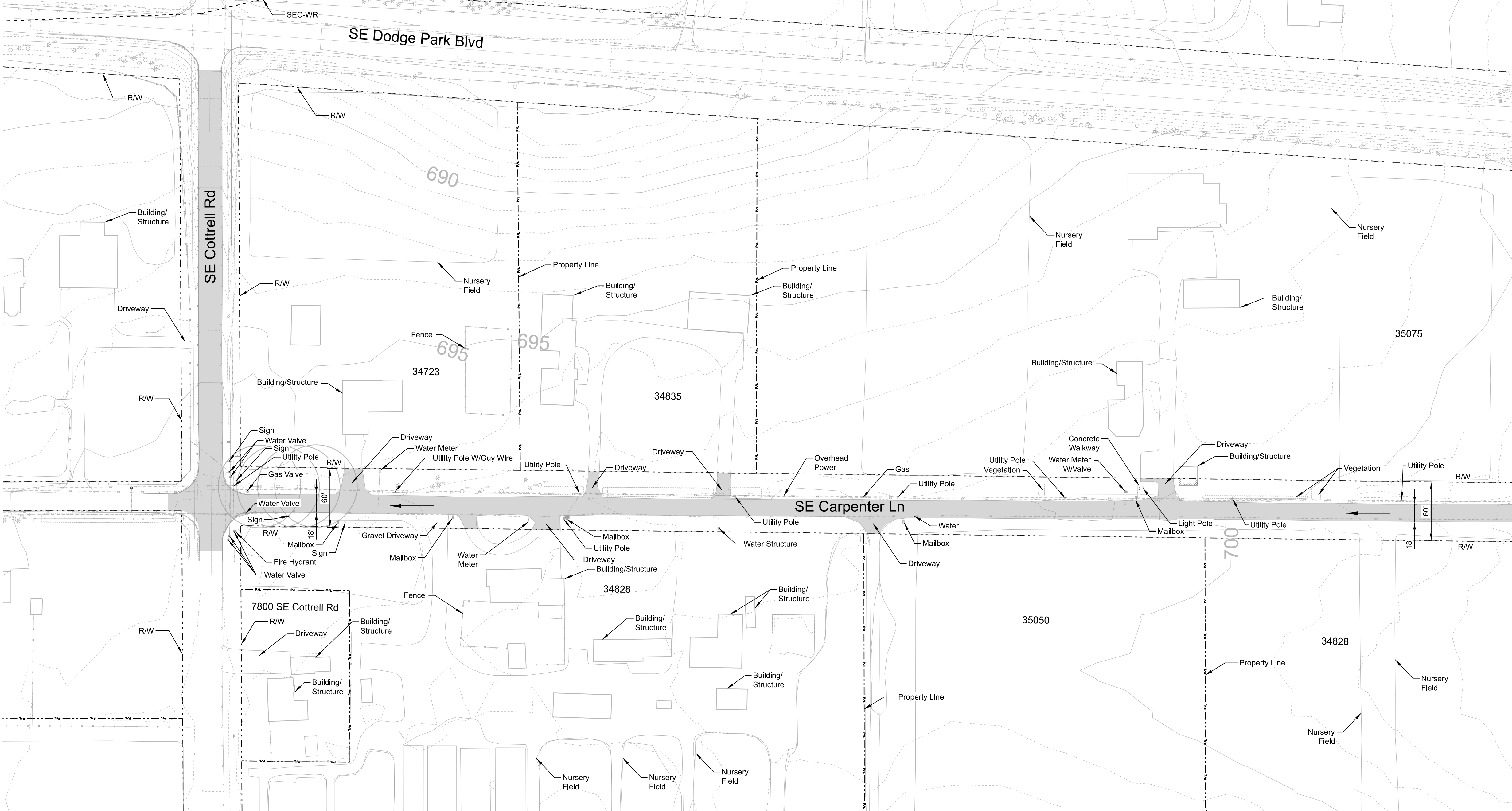
Table 1. Civil Engineering Drawings (Off-Site Improvements)

Drawing Number	Drawing Name
00-LU-201	Existing Conditions
00-LU-202	Proposed Conditions
00-LU-203	Stormwater Management Plan
00-LU-204	Grading Plan
00-LU-205	Utility Plan

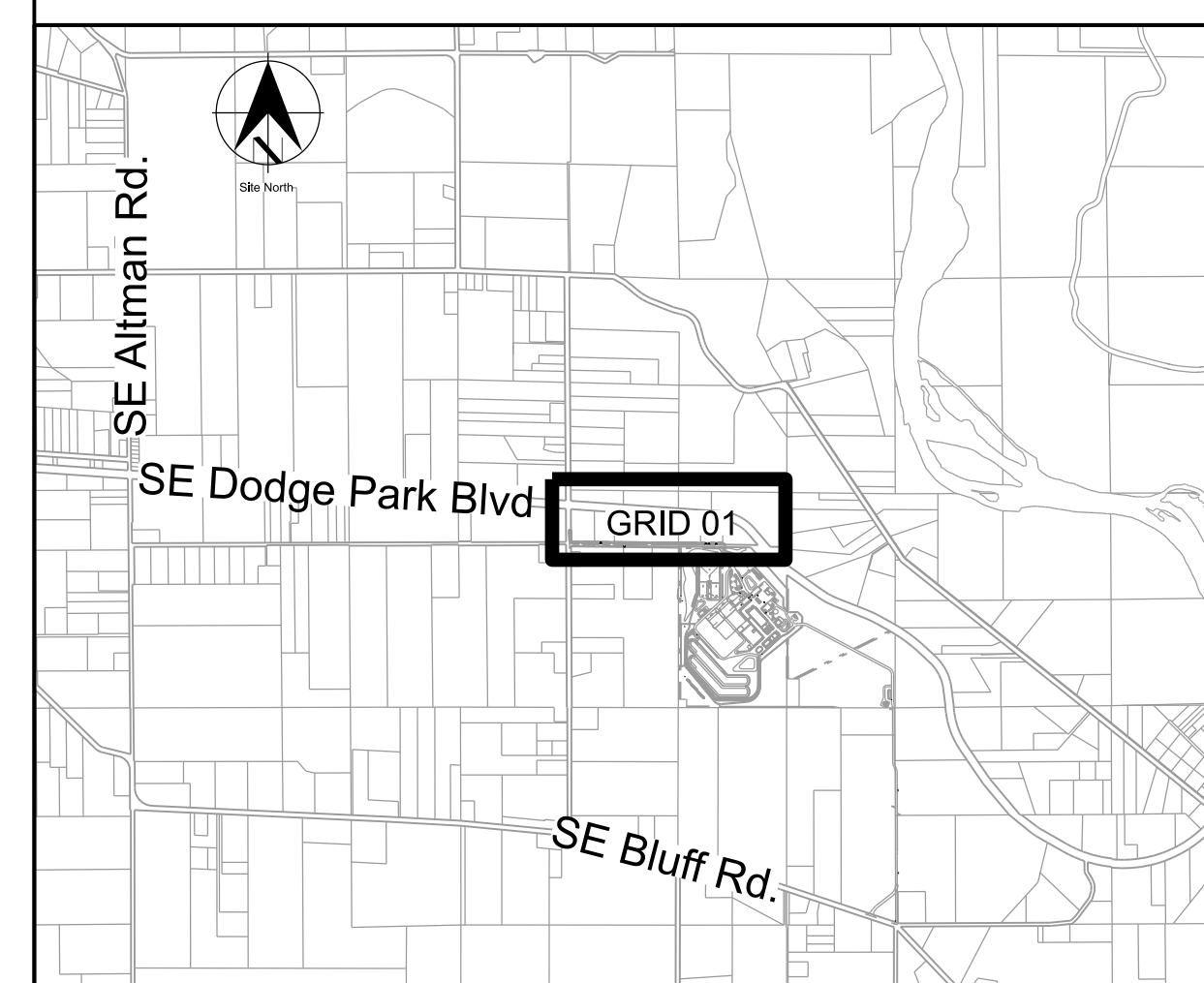
Attachment A: Site Plans



Site North



KEY PLAN



Legend

- Asphalt
- Flow Direction
- Deciduous Tree
- Evergreen Tree
- Gas Line
- Water Line
- Electric Overhead Line
- Water Meter
- Utility Pole
- Building/Structure
- Fence
- Mailbox
- Sign
- Water Valve
- Gas Valve
- Vegetation Hedge

Matchline - See 00-LU-301 for continuation



User: stanpw11cs03\$ W02229_FF_00-LU-201.dgn 1/10/2023

No	Date	Description	Appd
1	12/30/22	Building Permit	MIRG
Revision			
Survey			



Designed By	JSL	Design Mgr	LSP
Drawn By	BYS	Const Mgr	TG
Checked By	LCS	Const Supvr	RW
Project Mgr	MIRG	Date	12/30/22

Warning



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



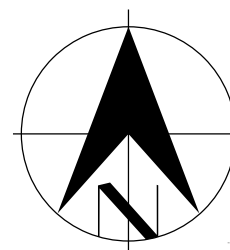
David W. Peters, Engineering Manager, PE No 16683

Date



Bull Run Filtration Facility
Civil
Existing Conditions
Carpenter Lane

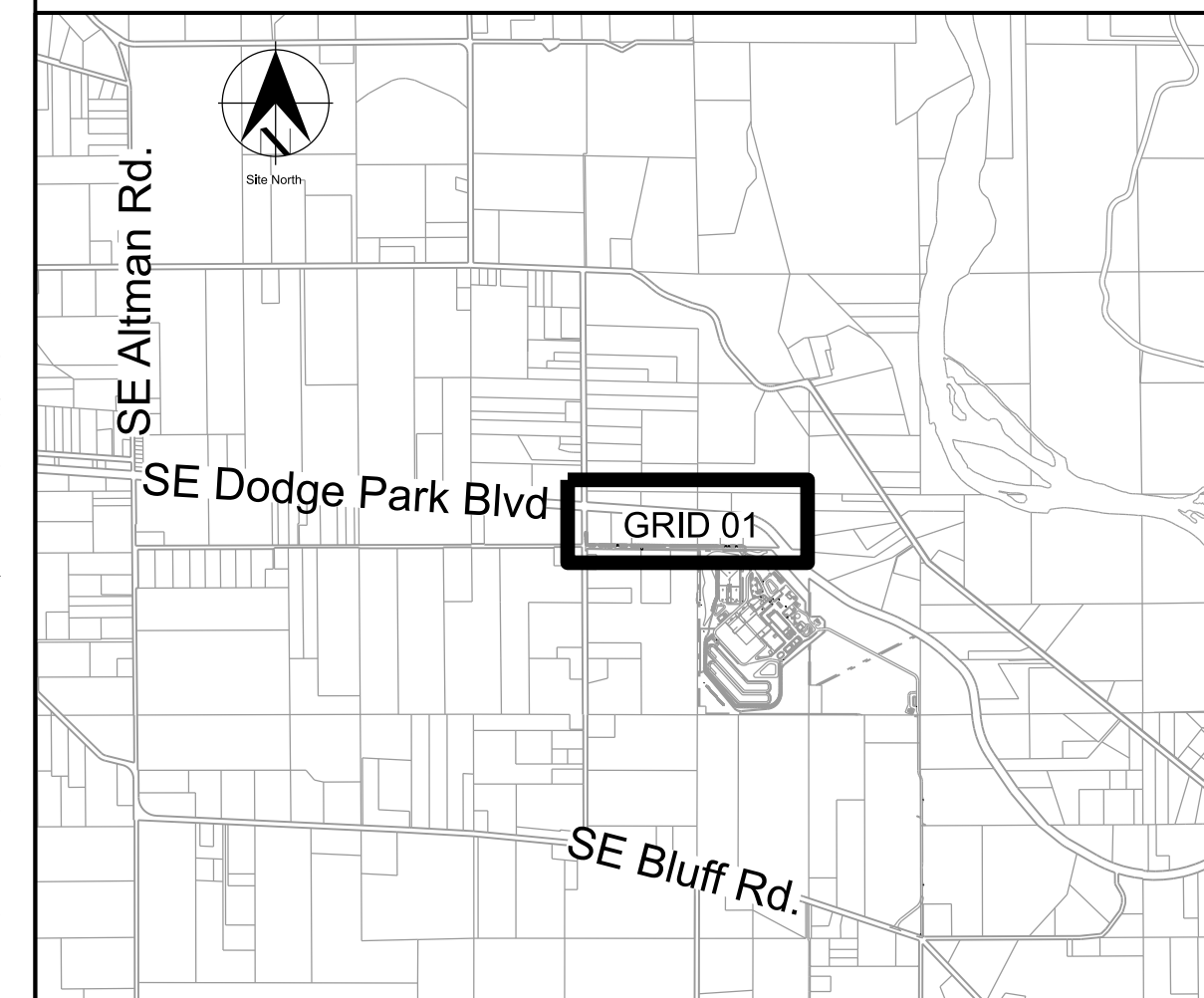
SAP Project No	W02229
1/4 Section	3765 / 3766
Sheet No	00-LU-201
of	



Site North



KEY PLAN



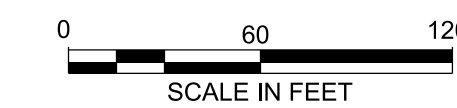
General Sheet Notes

- 1. See Sheet 00-LU-406 for Roadway Typical Sections.

Legend

- Flow Direction
- Existing Deciduous Tree
- Existing Evergreen Tree
- Existing Gas Line
- Existing Water Line
- Existing Electric Overhead Line
- Existing Water Meter
- Existing Utility Pole
- Existing Building/Structure
- Existing Fence
- Existing Mailbox
- Existing Sign
- Existing Water Valve
- Existing Gas Valve
- Existing Vegetation Hedge
- Existing Vegetation Edge
- Asphalt
- Gravel
- Concrete
- Ditch

Matchline - See 00-LU-302 for continuation



Bull Run Filtration Facility

Civil
Proposed Conditions
Carpenter Lane

SAP Project No
W02229

1/4 Section

3765 / 3766

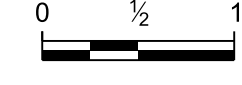
Sheet No
00-LU-202

of



Designed By	JSL	Design Mgr	LSH
Drawn By	BYS	Const Mgr	TG
Checked By	ERG	Const Supvr	RM
Project Mgr	MRG	Date	12/30/22

Warning



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



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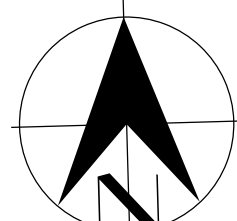
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1/10/2023

No	Date	Description	Appd
1	12/30/22	Building Permit	MRG
Revision			
Survey			



Site North

SEC-WR

SE Dodge Park Blvd

SE Cottrell Rd

Wall

34723

34835

35075

SE Carpenter Ln

7800 SE Cottrell Rd.

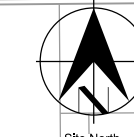
34828

35050

34828

Matchline - See 00-LU-303 for continuation

KEY PLAN



SE Altman Rd.

SE Dodge Park Blvd
SE Carpenter Ln

SE Cottrell Rd.

GRID 01

SE Bluff Rd.

General Sheet Notes

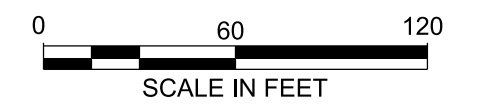
- All existing utilities to remain in place and protected during construction.

Sheet Keynotes

- Utility Pole
- Water Meter
- Light Pole
- Sign

Legend

- Existing Deciduous Tree
- Existing Evergreen Tree
- Existing Gas Line
- Existing Water Line
- Existing Electric Overhead Line
- Existing Water Meter
- Existing Utility Pole
- Existing Building/Structure
- Existing Fence
- Existing Mailbox
- Existing Sign
- Existing Water Valve
- Existing Gas Valve
- Existing Vegetation Hedge
- Existing Vegetation Edge
- Gravel
- Light Pole
- Water Meter
- Mailbox
- Utility Pole



User: stanpw11cs03\$ W02229_FF_00-LU-203.dgn

12/20/2022

No	Date	Description	Appd
1	12/30/22	Building Permit	MIRG
Revision			
Survey			



Designed By	JSL	Design Mgr	LSH
Drawn By	BVS	Const Mgr	TG
Checked By	RG	Const Supvr	RM
Project Mgr	MIRG	Date	12/30/22

Warning

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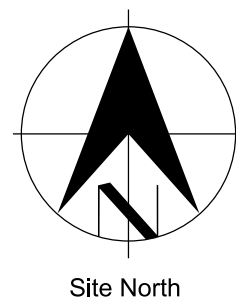
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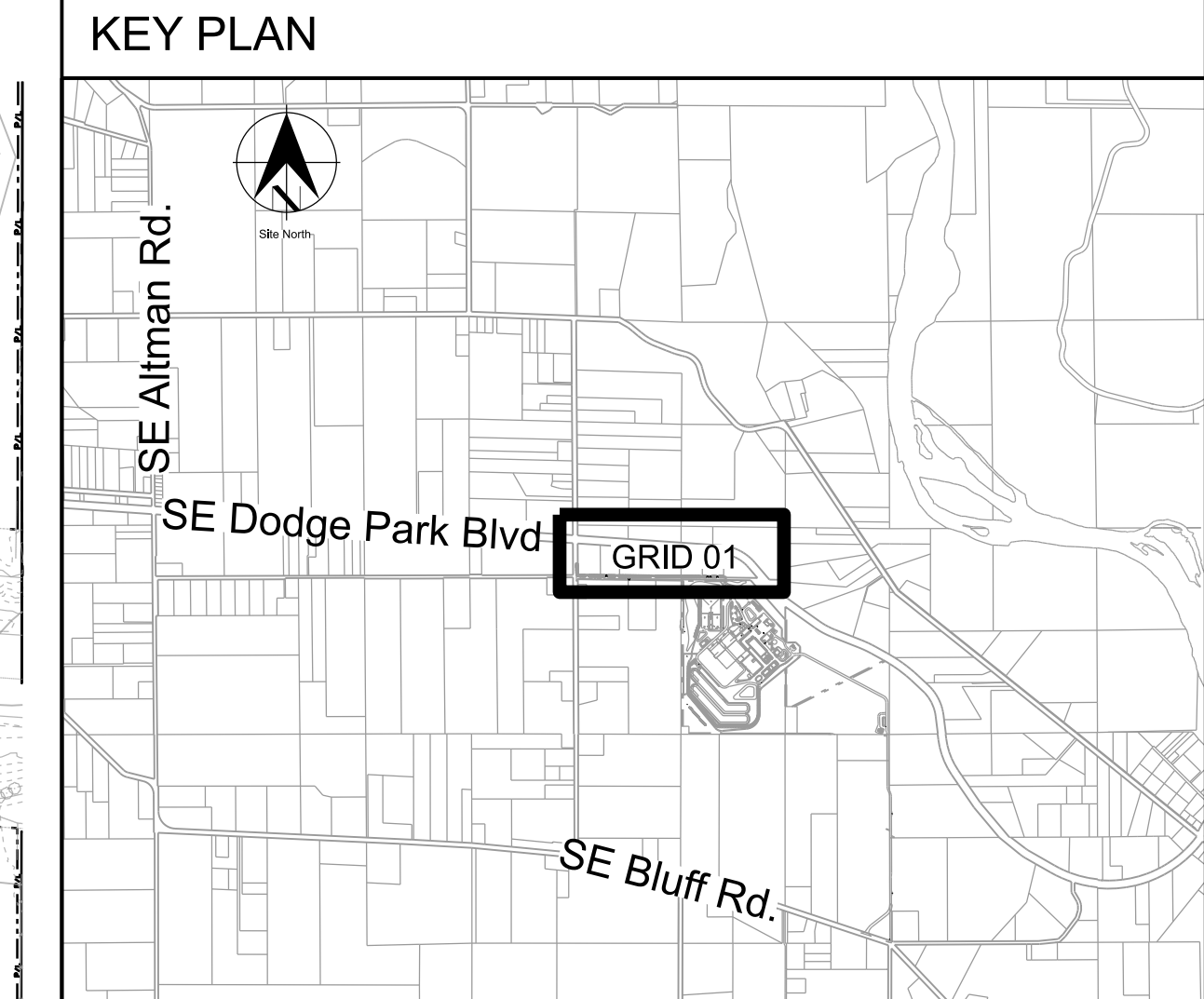
Bull Run Filtration Facility

Civil
Utility Plan
Carpenter Lane

SAP Project No
W02229
1/4 Section
3765 / 3766
Sheet No
00-LU-203
of



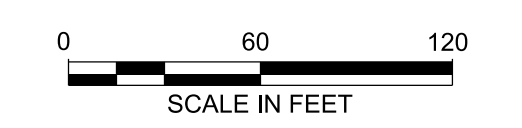
Site North



Legend

	Existing Deciduous Tree
	Existing Evergreen Tree
	Existing Gas Line
	Existing Water Line
	Existing Electric Overhead Line
	Existing Water Meter
	Existing Utility Pole
	Existing Building/Structure
	Existing Fence
	Existing Mailbox
	Existing Sign
	Existing Water Valve
	Existing Gas Valve
	Existing Vegetation Hedge
	Existing Vegetation Edge
	Gravel
	Light Pole
	Water Meter
	Mailbox
	Utility Pole
	Flow Direction
	Ditch

Matchline - See 00-LU-304 for continuation



SCALE IN FEET

User: stanpw11cs03\$ W02229_FF_00-LU-204.dgn

1/10/2023

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1	12/30/22	Building Permit	MIRG
Revision			
Survey			



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Date



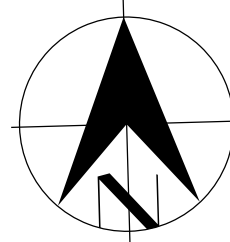
Bull Run Filtration Facility

Civil

Grading Plan

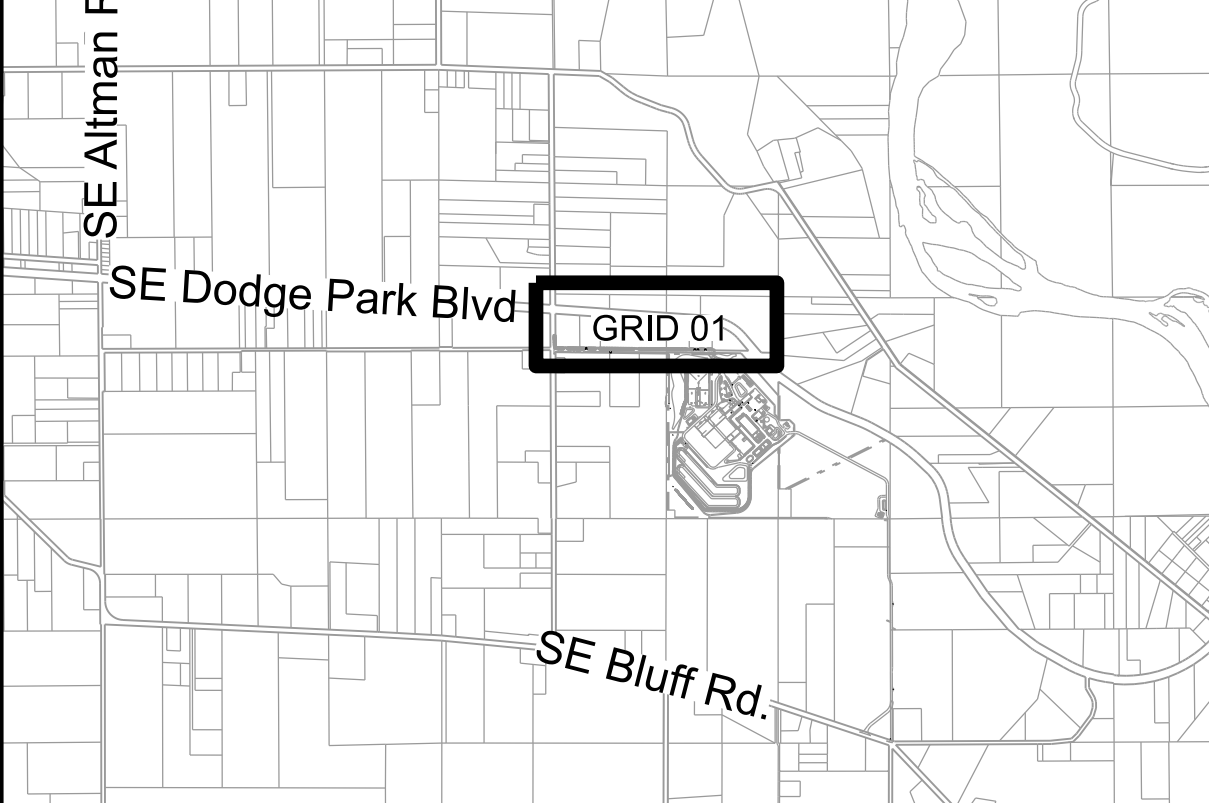
Carpenter Lane

SAP Project No	W02229
1/4 Section	3765 / 3766
Sheet No	00-LU-204
of	



Site North

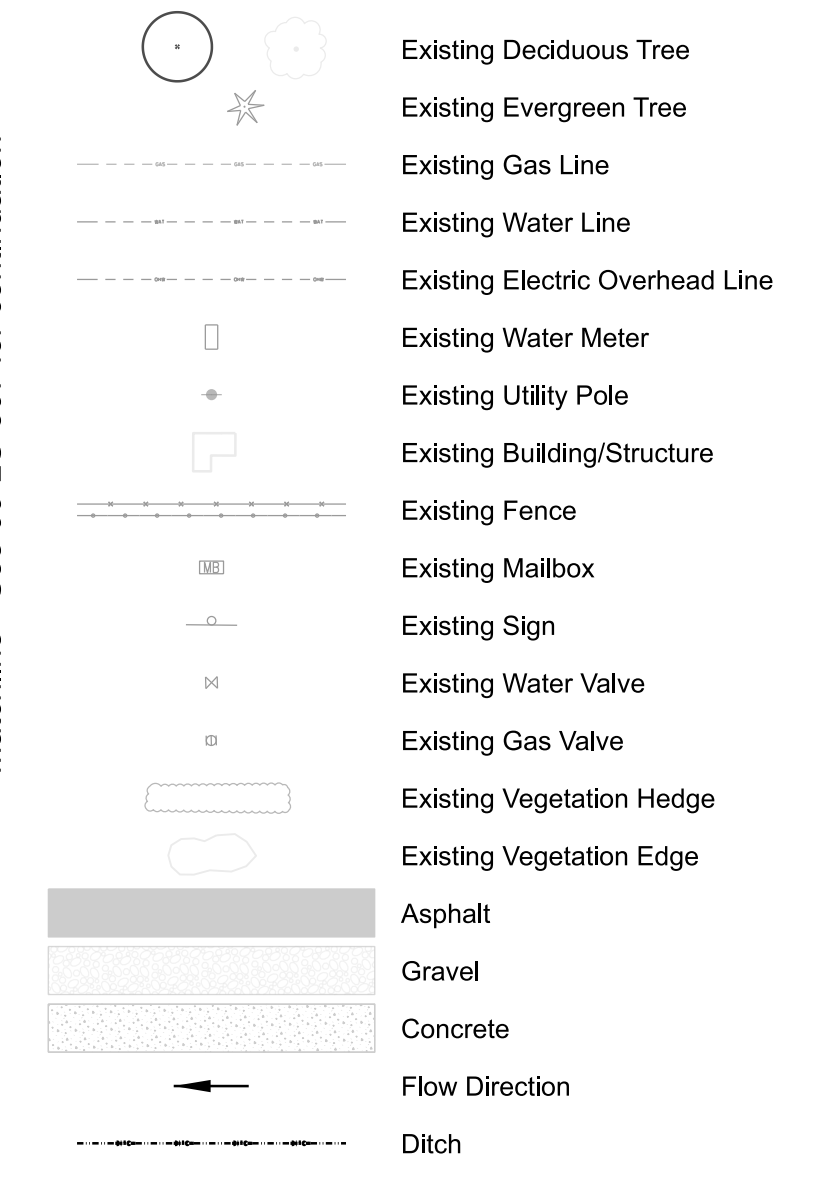
KEY PLAN



General Sheet Notes

1. Refer to Filtration Facility Stormwater Report (Appendix H.1) for stormwater calculations and sizing.
2. See sheet GEN-C-923 for details.

Legend



Matchline - See 00-LU-307 for continuation



SCALE IN FEET

User: stanpw11cs03\$ W02229_FF_00-LU-205.dgn

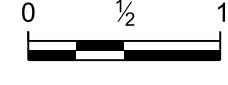
1/10/2023

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Bull Run Filtration Facility
Civil
Stormwater Management Plan
Carpenter Lane

SAP Project No
W02229
1/4 Section
3765 / 3766
Sheet No
00-LU-205
of