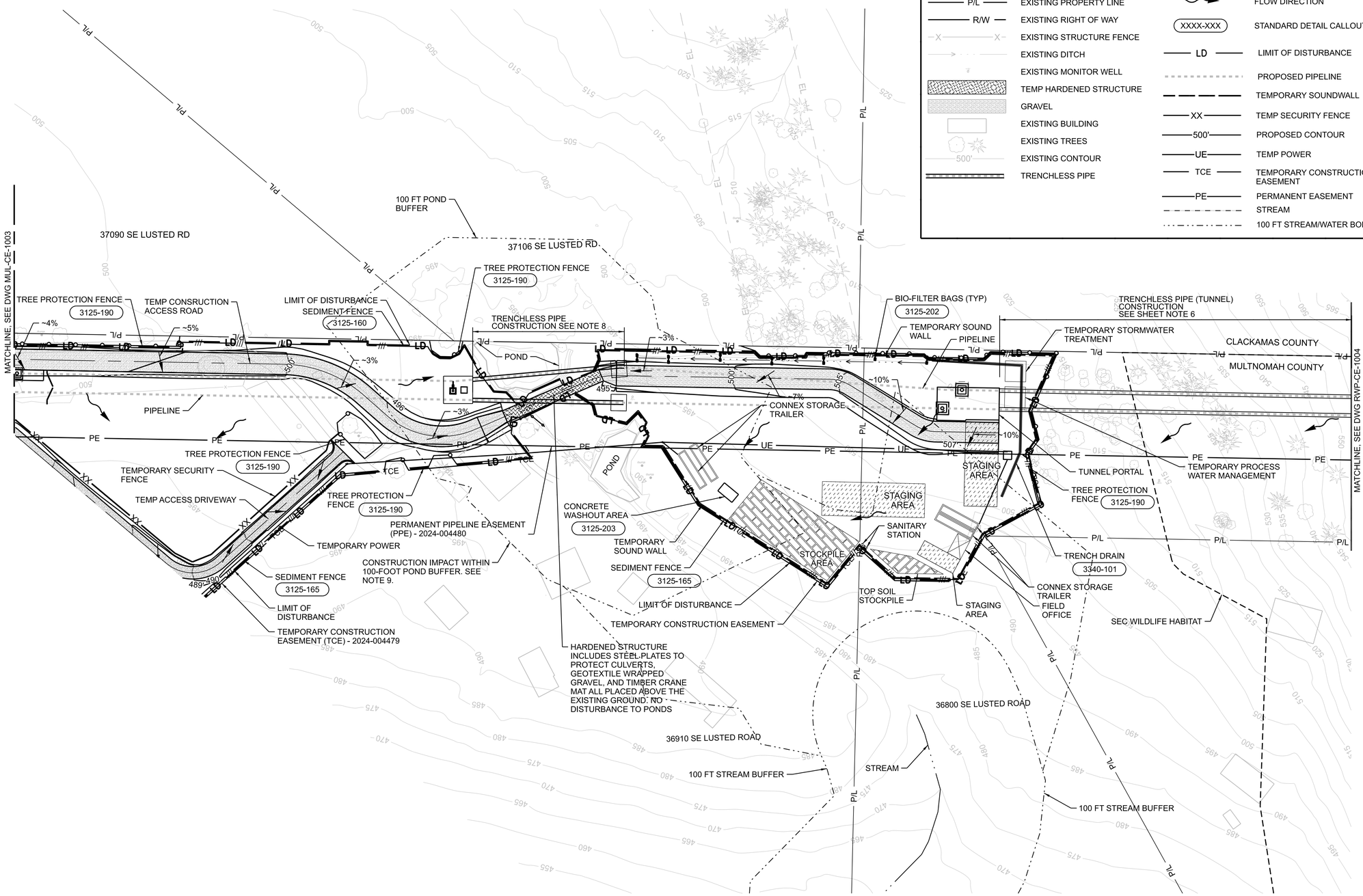
UTILITY WORK



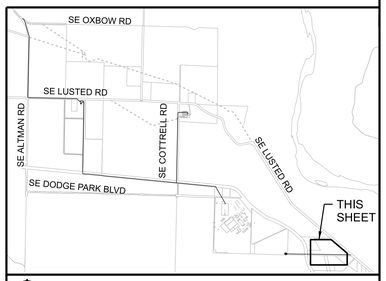
LEGEND

	SIGNIFICANT ENVIRONMENTAL CONCERN (SEC)
	COUNTY LINE
P/L	EXISTING PROPERTY LINE
R/W	EXISTING RIGHT OF WAY
X X	EXISTING STRUCTURE FENCE
	EXISTING DITCH
	EXISTING MONITOR WELL
	TEMP HARDENED STRUCTURE
	GRAVEL
	EXISTING BUILDING
	EXISTING TREES
500'	EXISTING CONTOUR
	TRENCHLESS PIPE
///	SEDIMENT FENCE
O	TREE PROTECTION FENCE
	FLOW DIRECTION
XXXX-XXX	STANDARD DETAIL CALLOUT
LD	LIMIT OF DISTURBANCE
	PROPOSED PIPELINE
	TEMPORARY SOUNDWALL
XX	TEMP SECURITY FENCE
500'	PROPOSED CONTOUR
UE	TEMP POWER
TCE	TEMPORARY CONSTRUCTION EASEMENT
PE	PERMANENT EASEMENT
	STREAM
	100 FT STREAM/WATER BODY BUFFER

GENERAL SHEET NOTES

1. REFER TO EROSION AND SEDIMENT CONTROLS NOTES, SHEET ESC-004.
2. PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
3. REMOVE AND REPLACE ROADWAY PAVEMENT WITHIN LIMITS OF DISTURBANCE TO MATCH EXISTING LINE AND GRADE.
4. CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING GRADE, WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
5. ALL DISTURBANCE AREA NOT RECEIVING PAVEMENT OR GRAVEL, UNLESS OTHERWISE SHOWN, SHALL BE RESTORED WITH GRASS SEEDING, SLOPES STEEPER THAN 3:1 SHALL BE RESTORED WITH GRASS SEEDING AND PERMANENT EROSION CONTROL BLANKETS AS SPECIFIED AND PER DETAIL 3125-152, SHEET ESC-201.
6. TWO EACH 9' DIAMETER 1240' LONG PARALLEL TUNNELS, WITH 9' OF SEPARATION BETWEEN TUNNELS, WILL BE EXCAVATED FROM A PORTAL SHAFT WITH INVERT 33' BELOW GROUND SURFACE AT THE START OF THE TUNNEL AND 232' BELOW GROUND SURFACE AT THE END OF THE TUNNEL DEEP VERTICAL SHAFT. THE TUNNEL EXCAVATION OPENING WILL BE CONTINUOUSLY SUPPORTED BY STEEL SETS AND LAGGING INSTALLED IMMEDIATELY FOLLOWING THE EXCAVATION SHIELD TO MINIMIZE CONVERGENCE.
7. CONTOURS DISPLAYED AND LABELED EVERY 5FT.
8. TRENCHLESS PIPES HAVE 6 TO 12 FT OF COVER. NO SURFACE DISTURBANCE OR TREE DISTURBANCE FROM THE PIPES.
9. EROSION CONTROL BMPS HAVE BEEN DESIGNED TO REDUCE THE CONSTRUCTION PHASE SEDIMENT LOAD WITHIN THE 100-FOOT POND BUFFER TO LESS THAN 1 TON PER ACRE PER YEAR. BMPS INCLUDE SEDIMENT FENCE AND STRAW WATTLES.

0 50 100 150
Scale In Feet



KEYPLAN

11.W02563_RWP-CE-1003.dgn

21-MAY-2024 18:05

No	Date	Description	Appd
		Revision	
Survey			

ISSUED FOR CONFORMED SET ONLY

FOR STAMPED DESIGN PLEASE REFER TO JUNE 6, 2023 100% FINAL DESIGN PACKAGE

Designed By	RG	Program Mgr	DH
Drawn By	JL	Const Mgr	BN
Checked By	RG	CM/I Eng Mgr	JB
Project Mgr	BJP	Date	9/29/23

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

PORTLAND WATER BUREAU
FROM FOREST TO FAUCET

KENNETH M. ACKERMAN, PRINCIPAL ENGINEER, PE #19424 Date

Bull Run Filtration Pipelines

RAW WATER PIPELINE EROSION AND SED CONTROL

UTILITY WORK 1
GRID 2

SAP Project No W02563
1/4 Section
Sheet No RWP-CE-1003

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