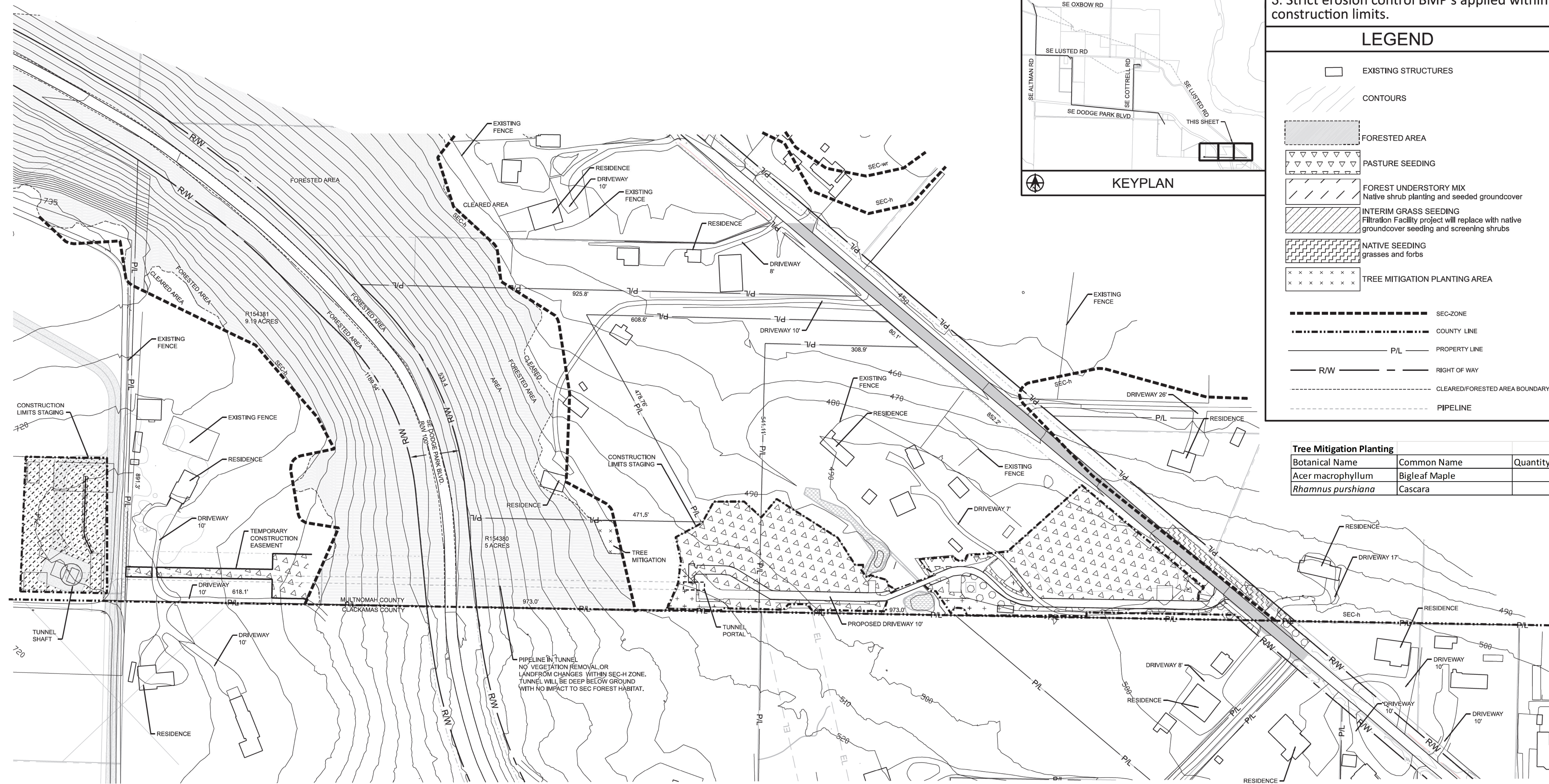
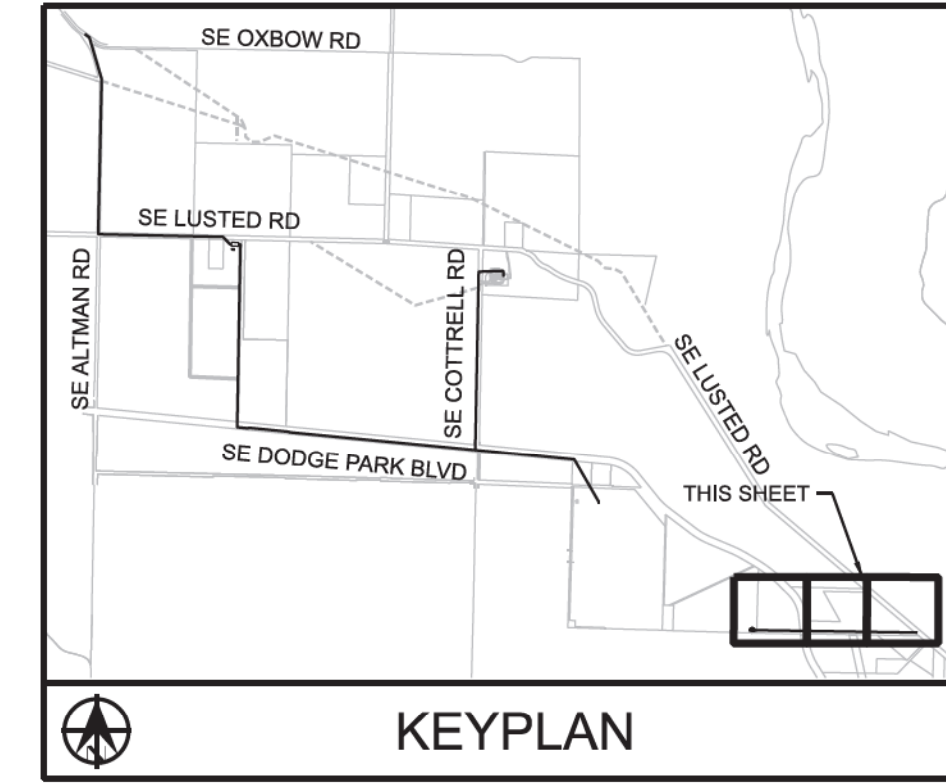
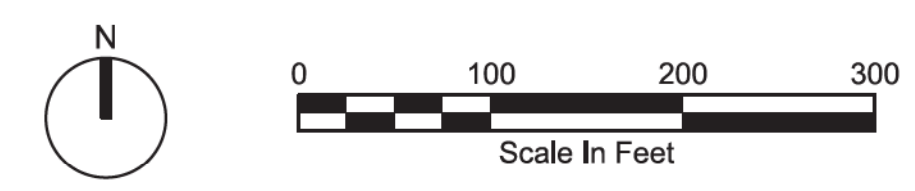


GENERAL SHEET NOTES

1. No proposed tree removal, fill, or grading within SEC-h zone. Tunnel will be deep below ground with no impact to forest habitat.
2. Predominant species in SEC area: Douglas Fir (*Pseudotsuga menziesii*), Western Red Cedar (*Thuja plicata*), Red Alder (*Alnus rubra*), with Sword Fern (*Polystichum munitum*) in the understory.
3. Strict erosion control BMP's applied within construction limits.

LEGEND

- EXISTING STRUCTURES
- CONTOURS
- FORESTED AREA
- PASTURE SEEDING
- FOREST UNDERSTORY MIX
Native shrub planting and seeded groundcover
- INTERIM GRASS SEEDING
Filtration Facility project will replace with native groundcover seeding and screening shrubs
- NATIVE SEEDING
grasses and forbs
- TREE MITIGATION PLANTING AREA
- SEC-ZONE
- COUNTY LINE
- P/L PROPERTY LINE
- R/W RIGHT OF WAY
- CLEARED/FORESTED AREA BOUNDARY
- PIPELINE



Tree Mitigation Planting		
Botanical Name	Common Name	Quantity
<i>Acer macrophyllum</i>	Bigleaf Maple	2
<i>Rhamnus purshiana</i>	Cascara	4

PIPELINE IN TUNNEL
NO VEGETATION REMOVAL OR
LANDFORM CHANGES WITHIN SEC-H ZONE.
TUNNEL WILL BE DEEP BELOW GROUND
WITH NO IMPACT TO SEC FOREST HABITAT.

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No	Date	Description	Appd

**PRELIMINARY
NOT FOR
CONSTRUCTION**

Designed By	DH
Drawn By	BN
Checked By	JB
Project Mgr	
Program Mgr	DH
Const Mgr	BN
Const Super	JB
Date	6/30/23

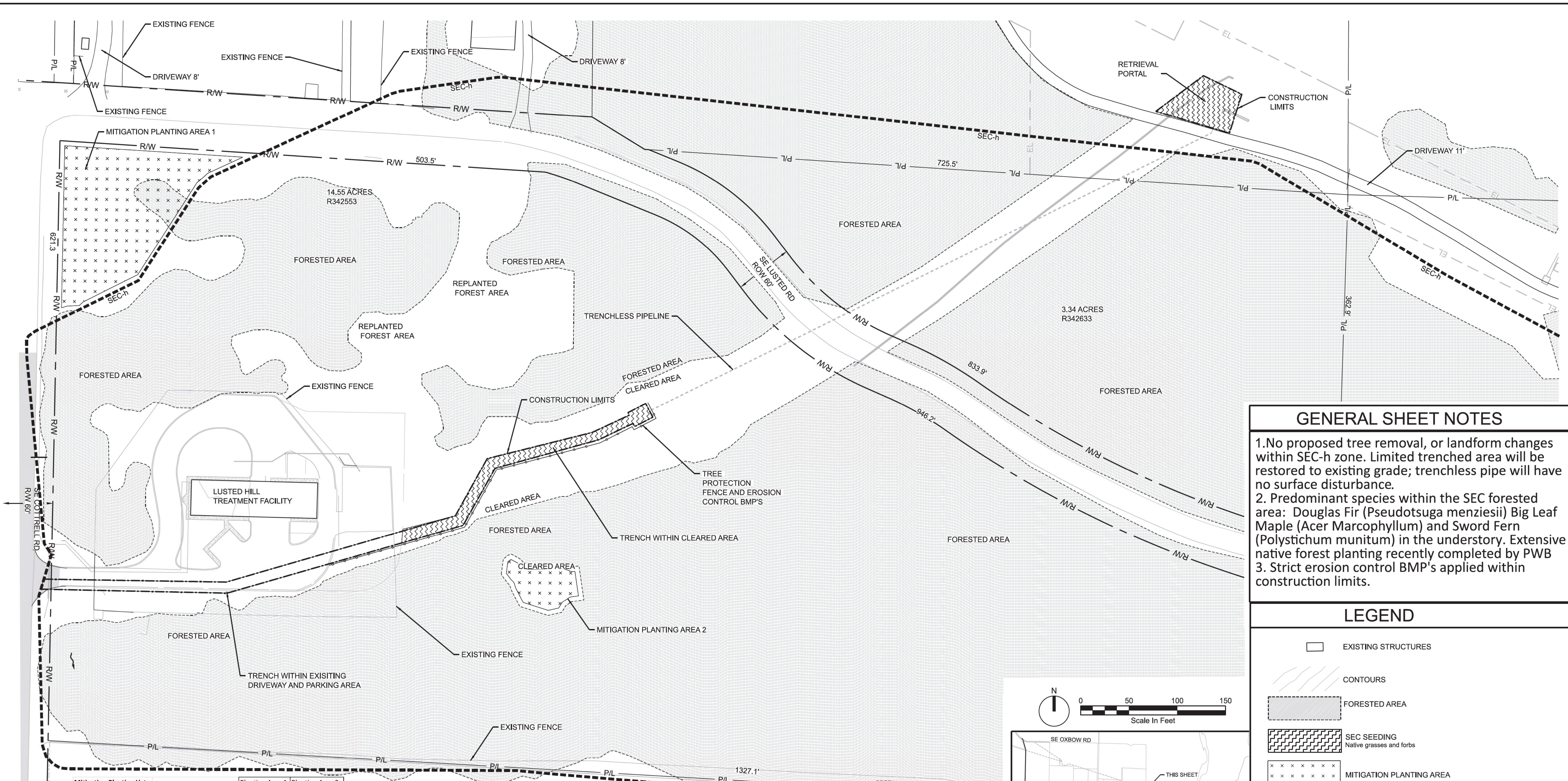


KENNETH M. ACKERMAN, PRINCIPAL ENGINEER, PE #19424
Date



Bull Run Filtration Pipelines
SEC RW-01 AREA
SEC-H RAW WATER PIPELINES PLAN
GRID 1, GRID 2, GRID 3
Exhibit I.97

SAP Project No	W02563
1/4 Section	
Sheet No	
LU-601M	



GENERAL SHEET NOTES

1. No proposed tree removal, or landform changes within SEC-h zone. Limited trenched area will be restored to existing grade; trenchless pipe will have no surface disturbance.
2. Predominant species within the SEC forested area: Douglas Fir (*Pseudotsuga menziesii*) Big Leaf Maple (*Acer Marcophyllum*) and Sword Fern (*Polystichum munitum*) in the understory. Extensive native forest planting recently completed by PWB
3. Strict erosion control BMP's applied within construction limits.

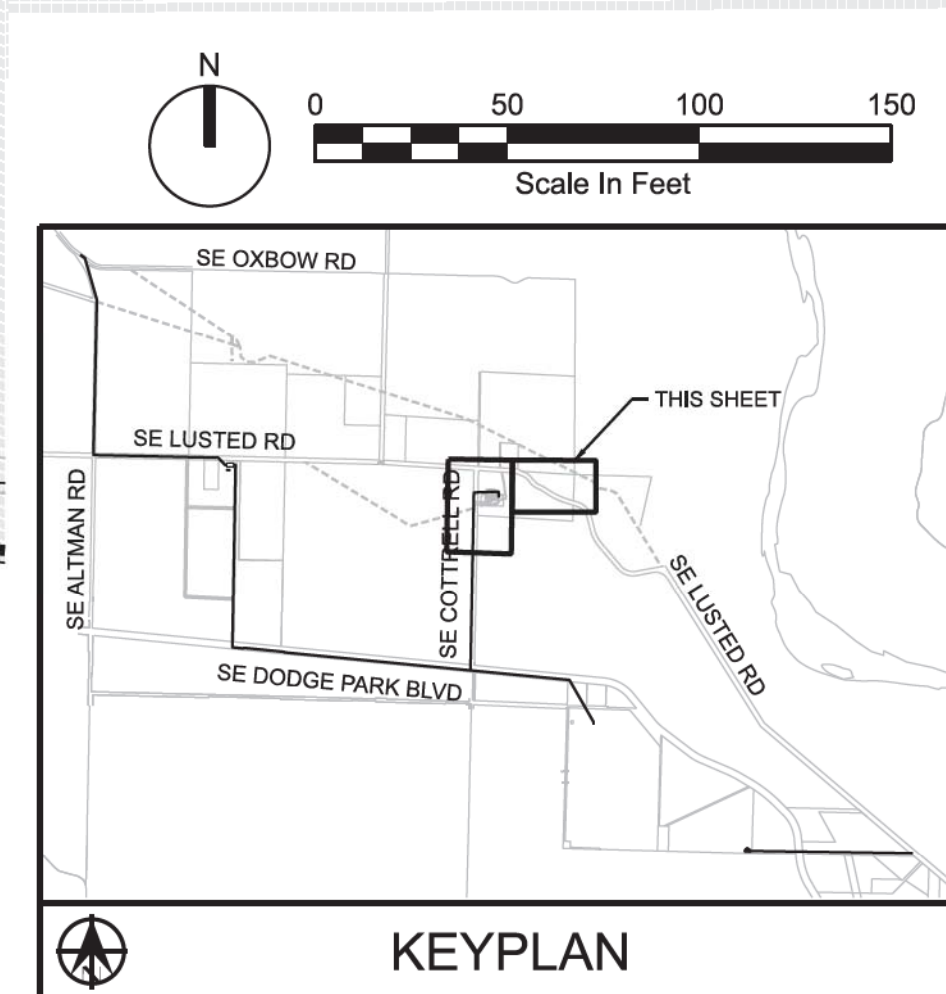
LEGEND

- EXISTING STRUCTURES
- CONTOURS
- FORESTED AREA
- SEC SEEDING
Native grasses and forbs
- MITIGATION PLANTING AREA
- SEC ZONE
- P/L PROPERTY LINE
- R/W RIGHT OF WAY
- EL EASEMENT
- CLEARED/FORESTED BOUNDARY
- PIPELINE

MITIGATION PLANTING NOTES:

1. FIELD-LOCATE PLANTING LOCATIONS BASED ON SITE CONDITIONS
2. INSTALL SHRUBS IN GROUPS OF 3 - 11
3. DISTURBANCE AREA / CONSTRUCTION LIMIT EXTENTS = 7660.6 S.F. (INCLUDES 4190.9 S.F. EXISTING PAVED AREA)

Mitigation Planting List			
Botanical Name	Common Name	Planting Area 1	Planting Area 2
Trees			
<i>Pinus ponderosa</i>	Ponderosa Pine	10	2
<i>Pseudotsuga menziesii</i>	Douglas Fir	7	1
<i>Rhamnus purshiana</i>	Cascara	33	5
<i>Quercus garryana</i>	Oregon White Oak	16	3
Shrubs			
<i>Oemleria cerasiformis</i>	Oso Berry	49	8
<i>Ribes sanguineum</i>	Redflowering Currant	16	3
<i>Rubus parviflorus</i>	Thimbleberry	66	11
<i>Symphoricarpos albus</i>	Snowberry	132	21
<i>Spiraea douglasii</i>	Douglass Spirea	66	11



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No	Date	Description	Appd
Revision			
Survey			

**PRELIMINARY
NOT FOR
CONSTRUCTION**

Designed By	DH
Drawn By	BN
Checked By	JB
Project Mgr	6/30/23

WARNING

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



KENNETH M. ACKERMAN, PRINCIPAL ENGINEER, PE #19424



Bull Run Filtration Pipelines
SEC LH-01
SEC-H LUSTED HILL PLAN
GRID 15, GRID 16

SAP Project No
W02563
 1/4 Section
 Sheet No
LU-602M