

TREE ID	SPECIES	SCIENTIFIC	VISUAL	ACTION	COND	DBH	SHEET #	LOCATION	NUISANCE	TREE NOTES & CONDITION NOTES	LOCATION NOTES
Abbreviations: CP - Concrete Pad; CR - Tree crown; CS - Crown spread; CRZ - Critical Root Zone; FL - Fence line; FP - Foot Path; FY - Front Yard; LCR - Live Crown Ratio; NFE - Not fully measured & examined; PL - Parking Lot;											
DEFINITIONS: COND: Category of tree condition; DBH: Trunk diameter at 4.5-ft ht; E-RPZ: Estimated root protection radius recommendation; LOCATION NOTES: Growing location; NUISANCE: Trees considered invasive / undesirable											
NNA for HDR - SURVEY of 'SIGNIFICANT' TREES for !-205 CORRIDOR WIDENING PROJECT											
101	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	18	1		No	Closed canopy	
102	Black cottonwood	<i>Populus trichocarpa</i>		PROTECT	Fair	43	1		No	Sig stem lean	
103	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	27	1		No		
104	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	16	1		No	Closely spaced grouping	
105	Black cottonwood	<i>Populus trichocarpa</i>		PROTECT	Dead	14	1		No	Standing dead tree	
106	Black cottonwood	<i>Populus trichocarpa</i>		PROTECT	Poor	14	1		No	Severe decline	
107	Black cottonwood	<i>Populus trichocarpa</i>		3	Poor	23	1		No		
108	Black cottonwood	<i>Populus trichocarpa</i>		PROTECT	Good	16	1		No		
109	Black cottonwood	<i>Populus trichocarpa</i>		REM	Good	14	1		No		
110	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	6	1		No	NOT A SIGNIFICANT TREE Young tree	
111	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Fair	13	1		No		
112	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	23	1		No		
113	Black cottonwood	<i>Populus trichocarpa</i>		REM	Good	27	1		No		
114	Big leaf maple	<i>Acer macrophyllum</i>	Yes	PROTECT	Fair/Good	60	1		No	Large old veteran tree. 40-ft CR spread. Some decay	
115	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	40	1		No	Large tree	
116	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	38	1		No		
117	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Fair	20	1		No	Partially breaking apart	
118	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	32	1		No		
119	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	34	1		No		
120	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	26	1		No		
121	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	18	1		No		
122	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	16	1		No		
123	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Fair	25	1		No	Multi-stems. Reduced CR	
124	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Fair	13	1		No	Multi-stems. Reduced CR	
125	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Fair	12	1		No	Multi-stems. Reduced CR	
126	Port Orford Cedar	<i>Chamaecyparis lawsoniana</i>		PROTECT	Good	15	1		No	Low LCR	
127	Douglas fir	<i>Pseudotsuga menziesii</i>		PROTECT	Fair/Ppoor	23	1		No	Stem lost at 25-ft	
128	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	65	1		No	3 massive stems from 10-ft. Erosion under base	Steep slope
55589	Port Orford Cedar	<i>Chamaecyparis lawsoniana</i>		PROTECT	Good/Fair	27	1		No		
55733	Giant sequoia	<i>Sequoiadendron giganteum</i>		PROTECT	Good	26	1		No		Adjacent to property line
55734	Port Orford Cedar	<i>Chamaecyparis lawsoniana</i>		PROTECT	Good	13	1		No		Adjacent to property line
55735	Port Orford Cedar	<i>Chamaecyparis lawsoniana</i>		PROTECT	Good	12	1		No	Twin stem	Adjacent to property line
55736	Port Orford Cedar	<i>Chamaecyparis lawsoniana</i>		PROTECT	Good	25	1		No		Private Property; 8-ft from fence
55744	Douglas fir	<i>Pseudotsuga menziesii</i>		PROTECT	Good/Fair	19	1		No		6-ft from property line fence
55745	Douglas fir	<i>Pseudotsuga menziesii</i>		PROTECT	Good/Fair	13	1		No	Low LCR	3-ft from property line fence
55746	Port Orford Cedar	<i>Chamaecyparis lawsoniana</i>		REM	Good/Fair	18	1		No		
55747	Port Orford Cedar	<i>Chamaecyparis lawsoniana</i>		REM	Good/Fair	14	1		No	Stem lean. At edge of bridge overhang	
55750	Port Orford Cedar	<i>Chamaecyparis lawsoniana</i>		REM	Good	17	1		No		
56082	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	13	1		No	Closely spaced grouping	
56083	Black cottonwood	<i>Populus trichocarpa</i>		REM	Fair	33	1		No	Beaver damage	
56083	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	18	1		No	Closely spaced grouping	
56084	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	16	1		No	Closely spaced grouping	
56085	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	15	1		No	Closely spaced grouping	
56086	Black cottonwood	<i>Populus trichocarpa</i>		REM	Good	35	1		No		
56086	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	16	1		No	Closely spaced grouping	
56094	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	29	1		No		
56100	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	27	1		No		
56126	Black cottonwood	<i>Populus trichocarpa</i>		REM	Fair/Poor	13	1		No		
56135	Black cottonwood	<i>Populus trichocarpa</i>		REM	Good/Fair	13	1		No	Bending stem towards light	
56137	Black cottonwood	<i>Populus trichocarpa</i>		REM	Fair/Good	12	1		No		
56138	Black cottonwood	<i>Populus trichocarpa</i>		REM	Dead	14	1		No	Failed stem	
56140	Black cottonwood	<i>Populus trichocarpa</i>		REM	Good	12	1		No		
56142	Black cottonwood	<i>Populus trichocarpa</i>		REM	Good	20	1		No		
56171	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	12	1		No		
56176	Oregon ash	<i>Fraxinus latifolia</i>		REM	Good/Fair	12	1		No		
56176	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	14	1		No		
56177	Oregon ash	<i>Fraxinus latifolia</i>		REM	Fair/Poor	12	1		No		
56177	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	12	1		No		

56178	Oregon ash	<i>Fraxinus latifolia</i>		REM	Fair/Poor	12	1		No	
56181	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	12	1		No	Lost upper CR
56181	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	14	1		No	
56182	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	12	1		No	
56191	Black cottonwood	<i>Populus trichocarpa</i>		REM	Dead	13	1		No	Tree failure
56230	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	13	1		No	
56247	Oregon ash	<i>Fraxinus latifolia</i>		REM	Good/Fair	12	1		No	
56253	Black cottonwood	<i>Populus trichocarpa</i>		REM	Fair	12	1		No	
56254	Black cottonwood	<i>Populus trichocarpa</i>		REM	Fair	20	1		No	Beaver damage
56254	Black cottonwood	<i>Populus trichocarpa</i>		REM	Good	30	1		No	
56255	Black cottonwood	<i>Populus trichocarpa</i>		REM	Fair	18	1		No	Erosion around roots
56272	Black cottonwood	<i>Populus trichocarpa</i>		REM	Fair/Good	12	1		No	
56281	Black cottonwood	<i>Populus trichocarpa</i>		REM	Good	17	1		No	
56289	Black cottonwood	<i>Populus trichocarpa</i>		REM	Poor	12	1		No	Bending stem under bridge
56290	Black cottonwood	<i>Populus trichocarpa</i>		REM	Fair	13	1		No	Weak crown form
56291	Black cottonwood	<i>Populus trichocarpa</i>		REM	Good/Fair	22	1		No	Upright form
56336	Black cottonwood	<i>Populus trichocarpa</i>		REM	Good/Fair	18	1		No	Closely spaced grouping
56337	Black cottonwood	<i>Populus trichocarpa</i>		REM	Fair/Poor	12	1		No	
56348	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	14	1		No	
56349	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	14	1		No	
56353	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Fair	13	1		No	
56356	Black cottonwood	<i>Populus trichocarpa</i>		REM	Good/Fair	20	1		No	Thin CR form
56357	Oregon ash	<i>Fraxinus latifolia</i>		REM	Good/Fair	13	1		No	
56358	Black cottonwood	<i>Populus trichocarpa</i>		REM	Good/Fair	18	1		No	
56359	Black cottonwood	<i>Populus trichocarpa</i>		REM	Good/Fair	18	1		No	
56360	Black cottonwood	<i>Populus trichocarpa</i>		REM	Fair	21	1		No	
56361	Black cottonwood	<i>Populus trichocarpa</i>		REM	Dead	18	1		No	
56367	Black cottonwood	<i>Populus trichocarpa</i>		REM	Good/Fair	18	1		No	
56386	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	19	1		No	
56387	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	14	1		No	
56388	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	27	1		No	
56391	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	15	1		No	
56392	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	22	1		No	Twin stems from 15-ft
56397	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Poor	12	1		No	Broken stem
56398	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	14	1		No	
56410	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	28	1		No	
56411	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	23	1		No	
56412	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	35	1		No	
56428	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	22	1		No	Twin stems from 25-ft
56449	Big leaf maple	<i>Acer macrophyllum</i>		REM	Dead	65	1		No	Large decaying monolith
56452	Deodar cedar	<i>Cedrus deodara</i>	Yes	PROTECT	Good/Fair	43	1		No	Thin crown. Some storm damage
56507	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	30	1		No	Row of 3 trees
56511	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	24	1		No	
56560	Giant sequoia	<i>Sequoiadendron giganteum</i>	Yes	PROTECT	Good/Fair	98	1		No	Sig storm damage to one side of tree
56562	Saucer magnolia	<i>Magnolia soulangiana</i>		PROTECT	Good	26	1		No	CR 14-ft above street
56599	Coastal redwood	<i>Sequoia sempervirens</i>	Yes	PROTECT	Good	60	1		No	CR 12-ft above street. Fill within CPZ
56606	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	16	1		No	Closed canopy. Fill within CRZ
56607	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	15	1		No	Closed canopy
56608	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Fair	14	1		No	Subdominant within canopy
56609	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Fair	16	1		No	Leaning stem. Storm damage
56610	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	18	1		No	
56621	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Poor	24	1		No	No CR. Sprouting from bole at 20-ft
56625	Black cottonwood	<i>Populus trichocarpa</i>		REM	Good	45	1		No	
56626	Black cottonwood	<i>Populus trichocarpa</i>		REM	Good	38	1		No	
56631	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	13	1		No	Leader lost upper CR
56640	Oregon ash	<i>Fraxinus latifolia</i>		PROTECT	Fair	25	1		No	
56641	Black cottonwood	<i>Populus trichocarpa</i>		PROTECT	Good/Fair	40	1		No	
65037	Black cottonwood	<i>Populus trichocarpa</i>		REM	Dead	14	1		No	Standing dead tree
65165	Black cottonwood	<i>Populus trichocarpa</i>		REM	Good/Fair	12	1		No	
65166	Black cottonwood	<i>Populus trichocarpa</i>		REM	Poor	12	1		No	
65176	Black cottonwood	<i>Populus trichocarpa</i>		REM	Fair	13	1		No	
65183	Black cottonwood	<i>Populus trichocarpa</i>		REM	Good	43	1		No	

65185	Black cottonwood	<i>Populus trichocarpa</i>		REM	Fair	18	1		No	Flattened CR form	
65187	Black cottonwood	<i>Populus trichocarpa</i>		REM	Fair/Good	14	1		No	Small CR form	
65218	Oregon ash	<i>Fraxinus latifolia</i>		REM	Good	12	1		No		
65257	Black cottonwood	<i>Populus trichocarpa</i>		REM	Fair/Good	20	1		No	Standing dead tree	
65277	Black cottonwood	<i>Populus trichocarpa</i>		REM	Good	18	1		No		
65296	Oregon ash	<i>Fraxinus latifolia</i>		REM	Fair/Good	12	1		No	Thin CR	
65305	Black cottonwood	<i>Populus trichocarpa</i>		REM	Dead	18	1		No	Standing dead tree	
65307	Black cottonwood	<i>Populus trichocarpa</i>		REM	Dead	13	1		No	Standing dead tree	
65328	Black cottonwood	<i>Populus trichocarpa</i>		REM	Dead	12	1		No	Standing dead tree	
65332	Black cottonwood	<i>Populus trichocarpa</i>		REM	Dead	14	1		No	No CR	
65334	Black cottonwood	<i>Populus trichocarpa</i>		REM	Poor	28	1		No	Partial tree failure	
91753	Port Orford Cedar	<i>Chamaecyparis lawsoniana</i>		REM	Fair	13	1		No	Browning foliage. Under bridge	
91754	Port Orford Cedar	<i>Chamaecyparis lawsoniana</i>		REM	Fair	12	1		No	Browning foliage. Under bridge	
91756	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	24	1		No	Fractured stem lying within canopy	
91757	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	28	1		No		
91760	Big leaf maple	<i>Acer macrophyllum</i>		REM	Dangerous	40	1		No	Fractured stems. Remove if working near tree	
91802	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	32	1		No		
91804	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Fair	13	1		No	No upper CR	
91805	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	29	1		No		
91883	Black cottonwood	<i>Populus trichocarpa</i>		REM	Good	15	1		No		
91895	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	15	1		No		
562651	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	26	1		No		
56401a	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	15	1		No	Group of 3 trees	
56401b	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	13	1		No		
56402a	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	24	1		No	Group of 3 trees	
56402b	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Poor	14	1		No	Lost upper CR	
56403a	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	15	1		No	Group of 3 trees	
56403b	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	13	1		No		
56509b	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	14	1		No	Leaning stem	
56510a	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	13	1		No	Row of 3 trees	
56510b	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	12	1		No		
129	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	15	2		No		
131	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	19	2		No	Twin stems. Stunted development	
132	Big leaf maple	<i>Acer macrophyllum</i>		REM	Dead	15	2		No	Reduced CR size	
133	Incense cedar	<i>Calocedrus decurrens</i>		REM	Good/Fair	45	2		No	3 large stems	15-ft from s/wk
134	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	13	2		No		
135	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair/Poor	12	2		No	Declining CR	
136	Oregon oak	<i>Quercus garryana</i>		REM	Fair/Good	7	2		No	Ivy covered tree	
137	Incense cedar	<i>Calocedrus decurrens</i>		REM	Good	35	2		No	Multi-stem tree	15-ft from s/wk
138	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Fair	13	2		No	Low vitality	
139	Black locust	<i>Robinia pseudoacacia</i>		REM	Good/Fair	18	2		Yes		
140	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	14	2		No		15-ft from s/wk
141	Giant sequoia	<i>Sequoiadendron giganteum</i>	Yes	REM	Good	52	2		No		
142	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	12	2		No	Twin stems. Thin crown	
143	Incense cedar	<i>Calocedrus decurrens</i>		REM	Good	18	2		No	Good CR form	
144	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	14	2		No	Twin stem tree.	
145	Incense cedar	<i>Calocedrus decurrens</i>		REM	Good	14	2		No	Twin stem tree.	
146	Incense cedar	<i>Calocedrus decurrens</i>		REM	Good	12	2		No	Excellent CR form	
147	Honey locust	<i>Gleditsia triacanthos</i>		REM	Fair	25	2		No	Multi-stem tree	
148	Incense cedar	<i>Calocedrus decurrens</i>		REM	Good/Fair	44	2		No	Twin stem tree. Spreading low flattened CR	
149	Honey locust	<i>Gleditsia triacanthos</i>		REM	Fair	24	2		No	3 stems from ground. CR decline	
150	Honey locust	<i>Gleditsia triacanthos</i>		REM	Fair	15	2		No		
151	Incense cedar	<i>Calocedrus decurrens</i>		REM	Good	26	2		No	Single stem	
152	Incense cedar	<i>Calocedrus decurrens</i>		REM	Good	33	2		No	Twin stems from ground	
153	Incense cedar	<i>Calocedrus decurrens</i>		REM	Good/Fair	22	2		No	Exhibiting stress	
154	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	18	2		No	Shared CR space with 155	
155	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	19	2		No	Shared CR space with 154	
156	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	14	2		No	Shared CR space. Small CR	
157	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	18	2		No	Shared CR space	
158	Ponderosa pine	<i>Pinus ponderosa</i>		REM	Good/Fair	21	2		No	Slightly thin CR	
159	Incense cedar	<i>Calocedrus decurrens</i>		REM	Good/Fair	14	2		No		
160	Ponderosa pine	<i>Pinus ponderosa</i>		REM	Good	15	2		No	On steep bank	

161	Juniper species	<i>Juniperus spp</i>		REM	Fair/Poor	12	2		No	Damaged/broken CR	
162	Juniper species	<i>Juniperus spp</i>		REM	Fair	16	2		No	Broken branches	
163	Juniper species	<i>Juniperus spp</i>		REM	Fair	19	2		No	Small CR form	
164	Juniper species	<i>Juniperus spp</i>		REM	Fair/Poor	18	2		No	Damaged/broken CR	
165	Juniper species	<i>Juniperus spp</i>		REM	Good/Fair	22	2		No		
166	Juniper species	<i>Juniperus spp</i>		REM	Poor/Fair	25	2		No	Tree breaking apart	
167	Honey locust	<i>Gleditsia triacanthos</i>		REM	Fair/Poor	14	2		No	Twin stem tree. Declining CR	
168	Incense cedar	<i>Calocedrus decurrens</i>		REM	Dying	13	2		No	Twin stem tree. Severe decline	
169	Incense cedar	<i>Calocedrus decurrens</i>		REM	Good/Fair	15	2		No	Twin stem. Exhibiting stress	
170	Incense cedar	<i>Calocedrus decurrens</i>		REM	Fair	12	2		No	One stem. Lost top of CR	
171	Incense cedar	<i>Calocedrus decurrens</i>		REM	Fair/Good	14	2		No	Twin stem tree. Exhibiting stress	
172	Incense cedar	<i>Calocedrus decurrens</i>		REM	Good/Fair	13	2		No	Twin stem tree. Exhibiting stress	
173	Incense cedar	<i>Calocedrus decurrens</i>		REM	Good	12	2		No	Semi-mature tree	
174	Juniper species	<i>Juniperus spp</i>		REM	Poor/Fair	21	2		No	Declining CR	
175	Juniper species	<i>Juniperus spp</i>		REM	Poor/Fair	13	2		No	Damaged/broken CR	
176	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	68	2		No	4 large stems from ground	
177	Juniper species	<i>Juniperus spp</i>		REM	Dead	13	2		No	Twin stems both failed	
178	Juniper species	<i>Juniperus spp</i>		REM	Fair	22	2		No	Low vigor	
179	Oregon oak	<i>Quercus garryana</i>		REM	Good	6	2		No	Young healthy tree	
180	Juniper species	<i>Juniperus spp</i>		REM	Poor/Fair	19	2		No	Declining tree	
181	Juniper species	<i>Juniperus spp</i>		REM	Fair/Poor	28	2		No	Broken stem. Low vigor	
182	Juniper species	<i>Juniperus spp</i>		REM	Poor	35	2		No	Upper CR broken out	
183	Incense cedar	<i>Calocedrus decurrens</i>		REM	Fair	28	2		No	Twin stems from 2-ft. Upper CR break outs	
184	Juniper species	<i>Juniperus spp</i>		REM	Fair/Poor	20	2		No	CR damaged. Tree stressed	
185	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	10	2		No	Young tree. Twin stems from 1-ft	
186	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	8	2		No	Young tree	
187	Incense cedar	<i>Calocedrus decurrens</i>		REM	Good/Fair	18	2		No		
188	Black locust	<i>Robinia pseudoacacia</i>		REM	Good/Fair	15	2		Yes		
189	Black locust	<i>Robinia pseudoacacia</i>		REM	Fair/Good	23	2		Yes	Twin stem tree. At edge of draw	
190	Black locust	<i>Robinia pseudoacacia</i>		REM	Good/Fair	15	2		Yes		
191	Black locust	<i>Robinia pseudoacacia</i>		REM	Fair	20	2		Yes	Multi-stem tree. Covered in ivy	
192	Black locust	<i>Robinia pseudoacacia</i>		REM	Fair	22	2		Yes	Twin stem tree	
193	Black locust	<i>Robinia pseudoacacia</i>		REM	Fair/Good	17	2		Yes	Twin stem tree. Low LCR	
194	Black locust	<i>Robinia pseudoacacia</i>		REM	Dying	14	2		Yes	Strong foliage dieback	
195	Black locust	<i>Robinia pseudoacacia</i>		REM	Dying	20	2		Yes	Strong foliage dieback. Twin stems	
196	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	16	2		No	CR decline and dieback	
197	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	25	2		No	2 large stems	
198	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	12	2		No	Leaning stem	
199	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	18	2		No	Ivy covered tree	
200	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair/Good	18	2		No	At bottom of slope	
201	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair/Good	16	2		No	At bottom of slope	
202	Incense cedar	<i>Calocedrus decurrens</i>		REM	Fair/Good	17	2		No	Stunted development. PL planter area	
203	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Dying	14	2		No	No sig CR remains	
204	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Poor	17	2		No	Declining tree	
205	Black cottonwood	<i>Populus trichocarpa</i>		REM	Dying	32	2		No	Dying tree. CR breaking apart at 40-ft	
31613	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair/Good	22	2		No	Small CR form	
31635	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	24	2		No	Twin stems. 5-ft O/S propline fence. Top steep bank	
31649	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	23	2		No	Codom stem from 4-ft. Just inside propline fence	
31662	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	34	2		No	3 large stems/ multistem from ground. At fence	
40266	Florida dogwood	<i>Cornus florida</i>		REM	Fair/Poor	12	2		No	CR decline and dieback	
40664	Honey locust	<i>Gleditsia triacanthos</i>		REM	Fair	13	2		No		
40666	Honey locust	<i>Gleditsia triacanthos</i>		REM	Poor	15	2		No	Collapsed limbs on ground	
65520	Incense cedar	<i>Calocedrus decurrens</i>		PROTECT	Good/Fair	36	2		No	Twin stems from 2-ft.	
65524	Incense cedar	<i>Calocedrus decurrens</i>		PROTECT	Good	34	2		No	Twin stems from 2-ft	
65527	Honey locust	<i>Gleditsia triacanthos</i>		PROTECT	Fair/Poor	17	2		No	Exhibiting stress	
65530	Honey locust	<i>Gleditsia triacanthos</i>		PROTECT	Fair/Poor	16	2		No	Exhibiting stress	
65539	Incense cedar	<i>Calocedrus decurrens</i>		PROTECT	Fair	18	2		No	Exhibiting stress	
65552	Incense cedar	<i>Calocedrus decurrens</i>		PROTECT	Good	30	2		No	Twin stems. Ivy covered	
65560	Honey locust	<i>Gleditsia triacanthos</i>		PROTECT	Poor	14	2		No	Exhibiting stress	
65566	Incense cedar	<i>Calocedrus decurrens</i>		PROTECT	Good/Fair	28	2		No	Storm damage. Ivy covered	
65584	Oregon oak	<i>Quercus garryana</i>		PROTECT	Good/Fair	14	2		No	Twin stems. At edge of slope	
65586	Oregon oak	<i>Quercus garryana</i>		PROTECT	Good/Fair	8	2		No	At edge of slope	

65837	Hinoki cypress	<i>Chamaecyparis obtusa</i>		PROTECT	Fair/Good	13	2		No	Adj to s/wk	
65838	Hinoki cypress	<i>Chamaecyparis obtusa</i>		PROTECT	Fair/Good	17	2		No	Adj to s/wk	
206	Oregon oak	<i>Quercus garryana</i>		PROTECT	Good/Fair	31	3		No	Some d/wood. Partial line clearance	8-ft from property / ROW marker
207	Domestic plum	<i>Prunus domestica</i>		PROTECT	Poor	15	3		No	Multi-stem tree. Declining	Between easement markers
208	Oregon oak	<i>Quercus garryana</i>		PROTECT	Fair	18	3		No	Sig storm damage, upper CR	On level ground
209	Ponderosa pine	<i>Pinus ponderosa</i>	Possible	PROTECT	Good	30	3		No	No defects noted. Surface roots damaging d/way	
210	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	11	3		No		2-ft from metal fence
211	Pacific madrone	<i>Arbutus menziesii</i>		REM	Good/Fair	10	3		No	Heavily leaning stem	2-ft from metal fence
212	Pacific madrone	<i>Arbutus menziesii</i>		REM	Dying	11	3		No	Severe CR decline	
213	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	31	3		No	Three stems from 2-ft	At top of ridge
214	Pacific madrone	<i>Arbutus menziesii</i>		REM	Dying	6	3		No	Partial death of CR	
215	Big leaf maple	<i>Acer macrophyllum</i>		REM	Dying	12	3		No	Severe CR decline	
216	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	12	3		No	2x 6-inch stems from 1-ft	
217	Oregon oak	<i>Quercus garryana</i>		REM	Good	9	3		No		
218	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	7	3		No		
219	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	12	3		No	Large stem to 25-ft ht	
220	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	9	3		No	Shrubby twin stem	
221	Oregon oak	<i>Quercus garryana</i>		REM	Good	8	3		No	Shrubby form	
222	Oregon oak	<i>Quercus garryana</i>		REM	Good	46	3		No	Low shrubby form with 5 stems	
223	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	30	3		No	3 large leaders	Top of bank
224	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	22	3		No	Multi-stem grouping - 5 stems	
225	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	29	3		No	Thin upper CR, likley storm damage	On ROW line or adjacent
226	Oregon oak	<i>Quercus garryana</i>		PROTECT	Good	32	3		No	Large spreading CR	In FY
227	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	14	3		No	Good vigor	On ROW side of fence
228	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	18	3		No	Thin upper CR	On bank
359	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	17	3		No		
360	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	12	3		No		
361	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	14	3		No		
362	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	14	3		No		
363	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair/Good	28	3		No	Twin stems	At fence line
364	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	40	3		No	3 stems, 1 dead	
365	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	23	3		No		
366	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	20	3		No		
367	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	25	3		No	Twin stems	
368	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	8	3		No		
369	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	17	3		No	Multi-stem tree	
371	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	32	3		No		
372	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	25	3		No		
373	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	40	3		No		
374	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair/Good	55	3		No		
375	Oregon oak	<i>Quercus garryana</i>		REM	Good	8	3		No		
376	Oregon oak	<i>Quercus garryana</i>		REM	Fair/Good	23	3		No		
378	Oregon oak	<i>Quercus garryana</i>		REM	Good	10	3		No		
379	Oregon oak	<i>Quercus garryana</i>		REM	Good	8	3		No		
380	Oregon oak	<i>Quercus garryana</i>		REM	Good	8	3		No		
492	Pacific madrone	<i>Arbutus menziesii</i>		REM	Good/Fair	6	3		No		
493	Pacific madrone	<i>Arbutus menziesii</i>		REM	Fair	8	3		No	CR dieback	
494	Pacific madrone	<i>Arbutus menziesii</i>		REM	Fair/Good	9	3		No		
495	Pacific madrone	<i>Arbutus menziesii</i>		REM	Dying	9	3		No	Almost zero living tissue	
496	Pacific madrone	<i>Arbutus menziesii</i>		REM	Good/Fair	10	3		No	Multi-stem tree	
497	Pacific madrone	<i>Arbutus menziesii</i>		REM	Good/Fair	12	3		No	Multi-stem tree	
499	Pacific madrone	<i>Arbutus menziesii</i>		REM	Fair/Good	9	3		No		
500	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair/Poor	20	3		No	Multi-stem tree	
501	Western black poplar	<i>Populus trichocarpa</i>		REM	Fair/Poor	14	3		No		
502	Pacific madrone	<i>Arbutus menziesii</i>		REM	Dead	10	3		No	No living tissue	
510	Oregon oak	<i>Quercus garryana</i>		REM	Good to Poor	6 to 15	3		No	245 individual trees. Most of the trees are short shrubby and multi-stem typically growing on thin often minimal soil. Some larger specimens	Rocky upland plateau area between Willamette Falls Dr and I-205 rock cut. Area defined on plans
48403	Oregon oak	<i>Quercus garryana</i>		REM	Fair/Good	24	3		No	Heavy limb loss, storm damage	
48404	Oregon oak	<i>Quercus garryana</i>		REM	Fair	6	3		No	Reduced CR development under #48403	
48405	Oregon oak	<i>Quercus garryana</i>		REM	Good	12	3		No		
48405	Oregon oak	<i>Quercus garryana</i>		REM	Fair	6	3		No	Reduced CR development under #48403	

48406	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	10	3		No	Twin stems from ground level	
48406	Oregon oak	<i>Quercus garryana</i>		REM	Fair/Good	10	3		No	Reduced CR development	
48407	Oregon oak	<i>Quercus garryana</i>		REM	Fair	8	3		No	Upper CR dieback	
48415	Oregon oak	<i>Quercus garryana</i>		REM	Good	12	3		No	Good CR form	Edge of slope
48427	Oregon oak	<i>Quercus garryana</i>		REM	Good	13	3		No	Twin stems from ground level	
48446	Oregon oak	<i>Quercus garryana</i>		REM	Good	12	3		No	Vertical CR development	
48447	Oregon oak	<i>Quercus garryana</i>		REM	Poor	8	3		No	Severe CR dieback and branch epicormic	
48448	Oregon oak	<i>Quercus garryana</i>		REM	Dying	7	3		No	Severe CR decline	
48449	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	18	3		No	Stunted growth. 3 stems from ground level	
65667	Ponderosa pine	<i>Pinus ponderosa</i>		REM	Good/Fair	14	3		No	Thinning CR and foliage	At top edge of bluff
66290	Freeman's maple	<i>Acer x freemanii</i>		PROTECT	Good/Fair	26	3		No	Fastigate. Weak CR form	PL planter
66291	Freeman's maple	<i>Acer x freemanii</i>		PROTECT	Fair	12	3		No	Fastigate. Weak CR form	PL planter
66293	Freeman's maple	<i>Acer x freemanii</i>		PROTECT	Fair	14	3		No	Fastigate. Weak CR form	PL planter
66294	Freeman's maple	<i>Acer x freemanii</i>		PROTECT	Good/Fair	14	3		No	Fastigate. Weak CR form	PL planter
66545	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	16	3		No	Twin stems from 3-ft	
66548	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	14	3		No		
66551	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	16	3		No	Leaning stem	PL planter
66553	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Fair/Good	15	3		No	Stem lesions	PL planter
66555	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	23	3		No	Three stems	PL planter
66571	Eastern black walnut	<i>Juglans nigra</i>		PROTECT	Fair	34	3		No	Large tree. Overmaturity. Heavily pruned	
66576	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	13	3		No		
66577	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	13	3		No		On bank
66630	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	13	3		No		On bank
66631	Elm species	<i>Ulmus spp</i>		PROTECT	Fair/Good	14	3		No	Reduced CR size. Heavy leaf miner activity	
66632	Elm species	<i>Ulmus spp</i>		PROTECT	Fair/Good	15	3		No	Reduced CR size. Heavy leaf miner activity	
66633	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	17	3		No	Low CR	On bank
66743	Austrian pine	<i>Pinus nigra</i>		PROTECT	Good/Fair	12	3		No	Twin stems from 3-ft	
66809	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	13	3		No	Leaning stem	At driveway
66810	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	17	3		No	Leaning stem	At driveway
66818	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	18	3		No	Full CR	
66819	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	12	3		No	Reduced CR size	
66820	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	14	3		No		
66821	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	16	3		No	Twin stem tree	On bank
66822	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	13	3		No		On bank
66830	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Fair/Good	13	3		No	Thinning and damaged CR	
66835	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	13	3		No	Twin stems from 4-ft	
66839	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	12	3		No		
66892	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	13	3		No		
66895	Oregon oak	<i>Quercus garryana</i>		PROTECT	Good	7	3		No	Twin stems from ground level	
66896	Oregon oak	<i>Quercus garryana</i>		PROTECT	Good	6	3		No	Young tree. Good vigor	Under O/E line
67431	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Fair	19	3		No	Lost upper CR. Storm damage	
67456	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	20	3		No	Multi-stem tree	On bank
67458	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair/Good	16	3		No	Three stems	Top of bank
67462	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	26	3		No	Three stems	
85191	Oregon oak	<i>Quercus garryana</i>		PROTECT	Good	30	3		No	Large Tree in FY. Slightly thin CR	Private 14-ft from s/wk
85298	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good	15	3		No	NFE. Semi-mature maple	FY. Private
662292	Freeman's maple	<i>Acer x freemanii</i>		REM	Good/Fair	19	3		No	Fastigate. Weak CR form	PL planter
229	Blue Juniper	<i>Juniperus spp</i>		PROTECT	Good	14	4		No	Good CR form Good vigor	15-ft from asphalt
230	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	62	4		No	4 large leaders from 2-6-ft. Vehicle strike	1-ft from s/wk
231	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	13	4		No	Lost leader upper CR	Private tree. Edge of slope
232	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	12	4		No	Narrow CR, prev surrounded by trees	At edge of slope
233	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	20	4		No	Mature tree. Shared CR space w/234	
234	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	26	4		No	Mature tree. Shared CR space w/233. Dominant.	
235	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	14	4		No	Under O/E power lines	
236	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	25	4		No	Under O/E power lines. Spreading multi-stem	
237	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	13	4		No	Under O/E power lines. Single stem	
238	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	27	4		No	Under O/E power lines. 3 stem	
239	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	55	4		No	10 stems clumping from ground	
240	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	25	4		No	Multi-stem tree	
241	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	24	4		No	Large spreading CR	On steep bank
242	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	16	4		No	Large spreading CR	On steep bank
243	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	20	4		No	Large spreading CR	On steep bank

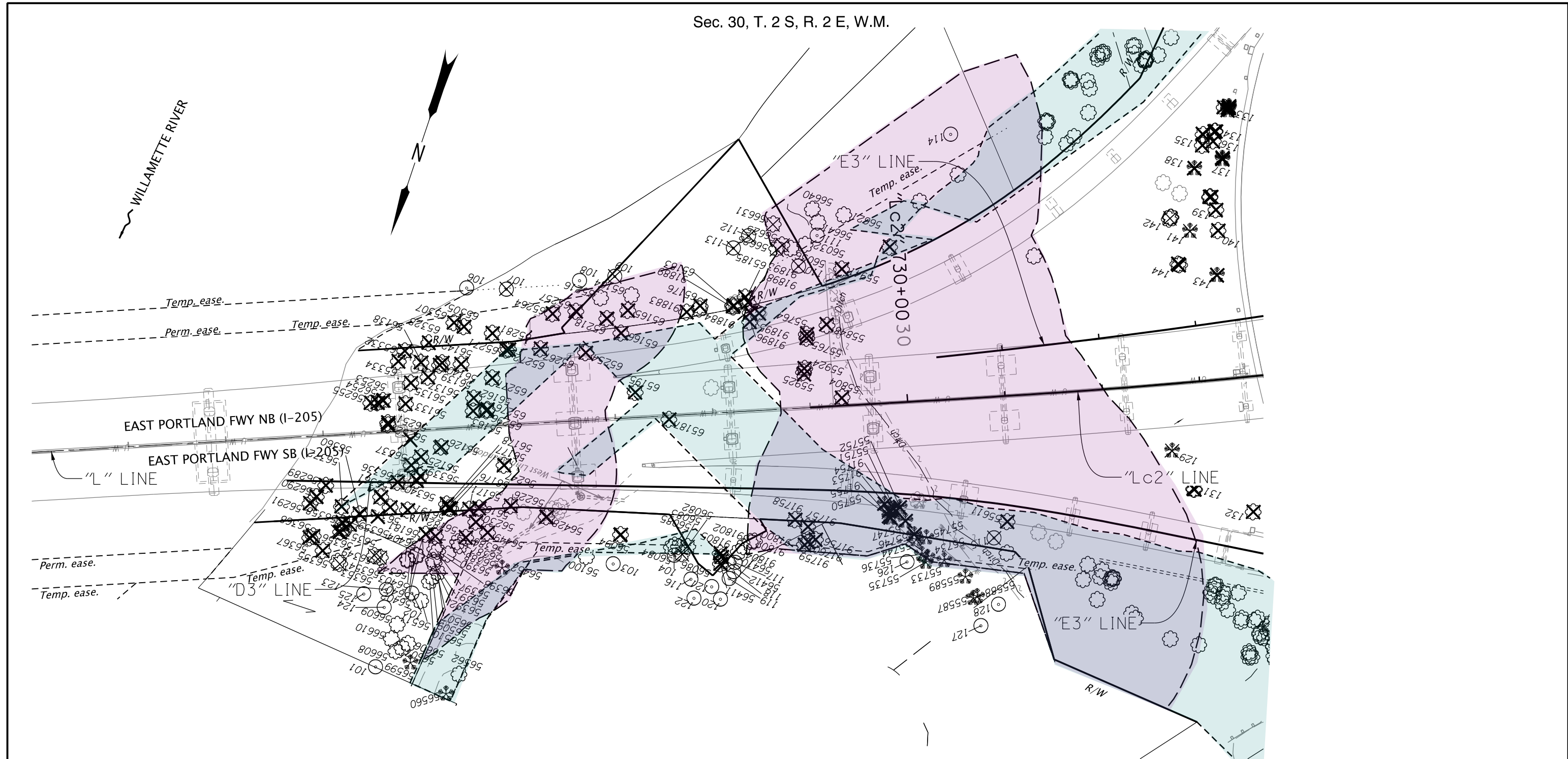
244	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	17	4		No	Mature tree	On steep bank
245	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	20	4		No		
246	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	30	4		No	Twin stems	
247	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	17	4		No		
248	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	35	4		No	Large mature tree	
249	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	13	4		No	Subdominant within canopy	
250	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	21	4		No		
251	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	17	4		No	Multi-stems with tight branch unions	
252	English hawthorn	<i>Crataegus monogyna</i>		REM	Poor	12	4		Yes	Multi-stem tree. Collapsed CR	
253	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	30	4		No	5 stems	4-ft inside ROW FL ODOT side
254	Cherry plum	<i>Prunus cerasifera</i>		REM	Fair/Poor	15	4		No	Leaning and ivy covered stem	
255	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	13	4		No	Narrow CR form	
256	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	14	4		No	Narrow CR form	
257	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	16	4		No		
258	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	30	4		No	Twin stems, ivy covered	
259	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	14	4		No	Lost top of leader	
260	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair/Good	15	4		No	Ivy covered tree	
261	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair/Good	16	4		No	Ivy covered tree	
262	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair/Poor	17	4		No	Damaged CR	
263	Oregon oak	<i>Quercus garryana</i>		REM	Fair/Good	27	4		No	3 stems. Line cleared under O/E	
264	Oregon oak	<i>Quercus garryana</i>		REM	Fair	19	4		No	Twin stems. Line cleared under O/E	
265	Oregon oak	<i>Quercus garryana</i>		REM	Fair	20	4		No	Twin stems. Line cleared under O/E	
266	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	33	4		No	Twin stem tree	
267	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	32	4		No	Twin stem tree	
268	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	34	4		No	Full CR	
269	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	13	4		No	Sundominant in canopy	1-ft from #268
270	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	23	4		No	Tall tree with reduced CR	
271	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	15	4		No		
273	Oregon oak	<i>Quercus garryana</i>		REM	Fair	8	4		No	CR top is missing	
274	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	37	4		No	Large canopy dominant tree	
275	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	27	4		No	Twin stems. Suppressed. Leaning stem	Edge of bank
276	Big leaf maple	<i>Acer macrophyllum</i>		REM	Dead	20	4		No	CR is lost	Mid-bank
277	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	13	4		No		
329	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	52	4		No	4 large stems from ground	Steep slope
330	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	15	4		No		
331	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	14	4		No	Dieback of leader	Edge of Interstate cut
332	Oregon ash	<i>Fraxinus latifolia</i>		REM	Poor	12	4		No	Main stem fallen. Regrowth from bole	
334	Oregon oak	<i>Quercus garryana</i>		REM	Good	22	4		No	Twin stems from 10-ft. Thin upper CR	At fence line
335	Oregon oak	<i>Quercus garryana</i>		REM	Good	25	4		No	Widespread CR	
336	Oregon oak	<i>Quercus garryana</i>		REM	Good	28	4		No	Large thinnin, spraeading CR	
337	Oregon oak	<i>Quercus garryana</i>		REM	Fair	9	4		No	Suppressed. Ivy covered	
338	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	31	4		No	Storm damage. Ivy covered	
339	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	27	4		No	Stressed tree; healthy lower CR	
340	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	16	4		No	Kinked stem at former leader loss	
341	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	35	4		No	Multi-stem tree. In decline	At fence line
342	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	12	4		No		
343	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	14	4		No		
344	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	14	4		No		
345	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	12	4		No	Lost leader upper CR	
346	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	15	4		No		
347	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	13	4		No	Single, leaning stem	Eroding substrate at base
348	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	14	4		No	Stem damage	Top of bank
349	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Fair/Good	14	4		No	Stem canker	
350	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	14	4		No		
351	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	15	4		No		4-ft from fence
352	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	12	4		No		2-ft from fence
353	Big leaf maple	<i>Acer macrophyllum</i>		REM	Dead	18	4		No	Functionally dead. Ivy covered	
354	Big leaf maple	<i>Acer macrophyllum</i>		REM	Dying	16	4		No	Ivy covered tree	
355	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair/Good	34	4		No	3 stems. CR decline	
356	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair/Good	26	4		No	3 stems, 1 defective. CR decline	
357	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	14	4		No		
358	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	18	4		No	Good branch structure	Top of ridge. 7-ft from fence

370	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	15	4		No		
377	Oregon oak	<i>Quercus garryana</i>		REM	Good	14	4		No		
381	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	13	4		No		Top of rock cut
382	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	13	4		No		Top of rock cut
383	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	13	4		No		Top of rock cut
384	Pacific madrone	<i>Arbutus menziesii</i>		REM	Fair	8	4		No	Lost leader	
385	Pacific madrone	<i>Arbutus menziesii</i>		REM	Good/Fair	29	4		No	Large tree. Thin CR with dieback. 3 stems	
386	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	24	4		No		6-ft from fence line
387	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	12	4		No	Partially suppressed	
388	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	22	4		No		
389	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	21	4		No		
390	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	12	4		No		
391	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	14	4		No		
392	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	12	4		No		
393	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	14	4		No		At fenceline
394	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	12	4		No		
395	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	13	4		No		
396	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	13	4		No		
397	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	12	4		No		
398	Ponderosa pine	<i>Pinus ponderosa</i>		REM	Fair	14	4		No	Thin CR foliage and branching	8-ft from fence line
399	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	31	4		No	Three stems	
400	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	22	4		No		
401	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	26	4		No		
402	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair/Poor	14	4		No	Severe CR dieback	
403	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	12	4		No		
404	Oregon oak	<i>Quercus garryana</i>		REM	Good	48	4		No	Very large tree. Twin stems from 8-ft	
405	Pacific madrone	<i>Arbutus menziesii</i>		REM	Good/Fair	7	4		No		
406	Pacific madrone	<i>Arbutus menziesii</i>		REM	Good/Fair	13	4		No		
407	Pacific madrone	<i>Arbutus menziesii</i>		REM	Good/Fair	13	4		No		
408	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	22	4		No		
409	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	22	4		No		
410	Pacific madrone	<i>Arbutus menziesii</i>		REM	Good/Fair	6	4		No		
411	Pacific madrone	<i>Arbutus menziesii</i>		REM	Good/Fair	6	4		No		
412	Pacific madrone	<i>Arbutus menziesii</i>		REM	Good/Fair	8	4		No		
413	Pacific madrone	<i>Arbutus menziesii</i>		REM	Good/Fair	6	4		No		
414	Pacific madrone	<i>Arbutus menziesii</i>		REM	Good/Fair	10	4		No		
415	Pacific madrone	<i>Arbutus menziesii</i>		REM	Good/Fair	6	4		No		
416	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	14	4		No	Twin stems from 3-ft	
417	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	12	4		No		At edge of rock cut
418	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	12	4		No		At edge of rock cut
419	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	14	4		No		
420	Pacific madrone	<i>Arbutus menziesii</i>		REM	Fair	7	4		No		
421	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	12	4		No		
422	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	12	4		No		
423	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	14	4		No		
424	Sweet cherry	<i>Prunus avium cultivar</i>		REM	Poor/Fair	21	4		Yes	Part of tree felled	12-ft from fence line
425	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	14	4		No	CR dieback	
426	Pacific madrone	<i>Arbutus menziesii</i>		REM	Fair	6	4		No		
427	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	27	4		No	Canopy dominant tree	
428	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	22	4		No		
429	Pacific madrone	<i>Arbutus menziesii</i>		REM	Good	14	4		No		
430	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	15	4		No	Suppressed. Ivy covered	
431	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	25	4		No	Thinning CR	
432	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Dead	24	4		No	Monolith remains	
433	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Dead	19	4		No	Tree failed and hung up in #427	
484	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	20	4		No		
485	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	30	4		No	Canopy dominant tree	
487	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	20	4		No		
488	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Fair	14	4		No	Lost CR at 40-ft	
489	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	23	4		No		
490	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	18	4		No		
491	Pacific madrone	<i>Arbutus menziesii</i>		REM	Dying	15	4		No		

503	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	12	4		No	Dieback of leader	Edge of Interstate cut
506	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	32	4		No		
508	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Good/Fair	17	4		No	Twin stems from 1-ft	5-ft from asphalt
509	Big leaf maple	<i>Acer macrophyllum</i>		PROTECT	Fair	12	4		No	Lost upper CR	On steep bank
57170	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair/good	12	4		No		
57171	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair/Good	13	4		No		
57178	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	24	4		No	Twin leaders from 15-ft	
57217	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	17	4		No	Large lower limbs	
57228	Oregon oak	<i>Quercus garryana</i>		REM	Good	18	4		No	Wide CR over street	At top of rock cut
57229	Oregon oak	<i>Quercus garryana</i>		REM	Fair	14	4		No	Thin CR Lost limbs	At top of rock cut
57231	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	15	4		No	Thin CR	At top of rock cut
57237	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	12	4		No	Subdominant to adjacent trees	At top of rock cut
57249	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	24	4		No	Thin upper CR	At edge of rock cut
57254	Oregon oak	<i>Quercus garryana</i>		REM	Good	24	4		No		
57315	Oregon oak	<i>Quercus garryana</i>		REM	Good	6	4		No	Good vitality, vigor	20-ft from asphalt
57338	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	18	4		No	3 stems, 1 dead. Small shrubby CR	
57343	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	14	4		No	2-stems from 1-ft	
57448	Western red cedar	<i>Thuja plicata</i>		REM	Dead	15	4		No	Twin stems. No living tissue	
57450	Western red cedar	<i>Thuja plicata</i>		REM	Dying	38	4		No	Two large stems from ground. CR decline severe	
57451	Western red cedar	<i>Thuja plicata</i>		REM	Dying	17	4		No	Leaning stem. CR dieback severe	
57461	English holly	<i>Ilex aquifolium</i>		REM	Poor	19	4		Yes	Damaged stem. Upper leader lost	
57606	Oregon oak	<i>Quercus garryana</i>		REM	Good	19	4		No	Twin stem tree	
57626	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	16	4		No		
57635	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	14	4		No	Twin stems	
57637	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	12	4		No		
57638	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	19	4		No	Twin stems	
57647	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	14	4		No		
57656	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	17	4		No	Lost CR top. Likley storm damage	6-ft inside fence
57664	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	21	4		No		
57665	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Dead	26	4		No	12-ft monolith	
57677	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	12	4		No		
57679	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	12	4		No		
57684	Oregon oak	<i>Quercus garryana</i>		REM	Good	15	4		No		At top of bank
57690	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Fair	22	4		No	Headed CR at 35-ft, O/E line clearance	
57692	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	15	4		No	Lost upper CR	
57693	Big leaf maple	<i>Acer macrophyllum</i>		REM	Poor/Fair	13	4		No	Only lower CR remains intact	
57694	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	18	4		No		
57698	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair/Poor	12	4		No	Two stems. Tree in decline	
57703	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	34	4		No	Large canopy dominant tree	
57706	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	31	4		No	Two tightly joined stems	
57718	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	17	4		No		
57721	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair/Good	19	4		No	Twin stems. Subdominant in canopy	
57726	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	16	4		No		
57730	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	15	4		No		
58820	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair/Good	12	4		No		20-ft inside ROW FL ODOT side
58821	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	12	4		No		20-ft inside ROW FL ODOT side
59275	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	20	4		No	Twin leaders from 4-ft	
59283	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	35	4		No		
59285	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	12	4		No		4-ft from FL
59289	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	18	4		No		3-ft from FL
59292	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Fair/Good	20	4		No		
59293	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	32	4		No		
59297	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	17	4		No	Narrow CR form	
59299	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	16	4		No		
59301	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	17	4		No		
59303	Big leaf maple	<i>Acer macrophyllum</i>		REM	Fair	15	4		No	CR overtopped	
59307	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	15	4		No		2-ft from FL
59309	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	11	4		No		4-ft from FL
59312	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	16	4		No	Subdominant in canopy	
59316	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Dead	24	4		No	CR is lost	
59321	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	12	4		No	Thin CR	5-ft from FL
59324	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	25	4		No		

59341	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	12	4		No	Subdominant in canopy to #344	5-ft from FL
59344	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good/Fair	15	4		No	Thin CR	4-ft from FL
59345	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	19	4		No	Wide open main crotch. Sound	
59632	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good	12	4		No		
507	Red elderberry	<i>Sambucus racemosa</i>		REM	Fair	16	5		No	Multi-stem plant.	
47186	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Fair	15	5		No	Lost top and branch breakage	
47255	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	39	5		No	Spreading CR	
47440	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	28	5		No	Multi-stem tree. Low spreading CR	
300	Oregon oak	<i>Quercus garryana</i>		REM	Good	6	6		Yes	Young tree	
301	Photinia species	<i>Photinia spp</i>		REM	Good/Fair	12	6		No	Spreading CR. Multi-stem	
302	Photinia species	<i>Photinia spp</i>		REM	Fair/Good	20	6		No	Spreading CR. Multi-stem	
303	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	15	6		No	Multi-stem tree	
304	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	17	6		No	Multi-stems tree	
305	Photinia species	<i>Photinia spp</i>		REM	Good/Fair	15	6		No	Spreading CR. Multi-stem	
43311	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Good	11	6		No	Good CR form	
43312	Incense cedar	<i>Calocedrus decurrens</i>		REM	Good/Fair	14	6		No	Low dense CR. 3 stems from 1-ft	
43315	Incense cedar	<i>Calocedrus decurrens</i>		REM	Good	15	6		No	Dense foliage	
43317	Austrian pine	<i>Pinus nigra</i>		REM	Fair	15	6		No	Stress evident. Storm damaged CR	
43318	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	9	6		No	Semi-mature. Drought stress. Thin CR	
43319	European silver birch	<i>Betula pendula</i>		REM	Dead	12	6		Yes	No living tissue	
43320	Oregon oak	<i>Quercus garryana</i>		REM	Good	11	6		No	Strong CR development	
43321	Oregon oak	<i>Quercus garryana</i>		REM	Good	9	6		No	Strong CR development	
43322	Norway maple	<i>Acer platanoides</i>		REM	Good	12	6		Yes	Low spreading CR	
43348	Oregon oak	<i>Quercus garryana</i>		REM	Good	12	6		No	Complete CR	
43355	Oregon oak	<i>Quercus garryana</i>		REM	Good	11	6		No	Complete CR	
43656	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	12	6		No	Low spreading CR	
43665	Oregon oak	<i>Quercus garryana</i>		REM	Good	6	6		No		
43666	Oregon oak	<i>Quercus garryana</i>		REM	Fair	6	6		No	Upper CR broken out	
43667	Oregon oak	<i>Quercus garryana</i>		REM	Good	8	6		No		
43948	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	6	6		No	Thin CR	
43949	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	12	6		No	Flattened CR form	
43950	Oregon oak	<i>Quercus garryana</i>		REM	Good	8	6		No	Shared CR space	
43951	Oregon oak	<i>Quercus garryana</i>		REM	Good	7	6		No	Shared CR space	
44252	Jack pine	<i>Pinus banksiana</i>		REM	Fair/Good	12	6		No	Drought stress evident	
44303	Incense cedar	<i>Calocedrus decurrens</i>		REM	Good	13	6		No	Single stem tree	
44320	European silver birch	<i>Betula pendula</i>		REM	Fair/Good	12	6		Yes	Some CR damage	
44343	Incense cedar	<i>Calocedrus decurrens</i>		REM	Good	13	6		No	Single stem tree	
44345	Incense cedar	<i>Calocedrus decurrens</i>		REM	Good	14	6		No	Twin stems. Low rounded CR	
44346	European silver birch	<i>Betula pendula</i>		REM	Dead	12	6		Yes	No living tissue	
44810	Oregon oak	<i>Quercus garryana</i>		REM	Good	13	6		No	Strong CR development	
44812	Black locust	<i>Robinia pseudoacacia</i>		REM	Fair	12	6		Yes	Twin stem. Thin CR Stressed tree	
44814	Black locust	<i>Robinia pseudoacacia</i>		REM	Fair	12	6		Yes	4 stems from ground	
44815	Black locust	<i>Robinia pseudoacacia</i>		REM	Fair	12	6		Yes	Twin stem. Thin CR Stressed tree	
44816	Photinia species	<i>Photinia spp</i>		REM	Fair	12	6		No	Spreading CR. Multi-stem	
44817	Oregon oak	<i>Quercus garryana</i>		REM	Good	6	6		No	Young tree	
44817	Black locust	<i>Robinia pseudoacacia</i>		REM	Fair	14	6		Yes	Declining tree	
44818	Black locust	<i>Robinia pseudoacacia</i>		REM	Fair	14	6		Yes	Declining tree	
44820	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	18	6		No	3 stems from 1-ft	
44863	Photinia species	<i>Photinia spp</i>		REM	Fair	13	6		No	Spreading CR. Multi-stem. Declining	
44886	Photinia species	<i>Photinia spp</i>		REM	Good/Fair	23	6		No	Spreading CR. Multi-stem	
44895	Photinia species	<i>Photinia spp</i>		REM	Fair/Good	12	6		No	Spreading CR. Multi-stem	
44907	Oregon oak	<i>Quercus garryana</i>		REM	Good	9	6		No		
44933	Jack pine	<i>Pinus banksiana</i>		REM	Fair/Good	15	6		No	Leaning stem	
44975	Photinia species	<i>Photinia spp</i>		REM	Good/Fair	18	6		No	Spreading CR. Multi-stem	
44976	Photinia species	<i>Photinia spp</i>		REM	Fair	12	6		No	Spreading CR. Multi-stem	
44982	Photinia species	<i>Photinia spp</i>		REM	Fair/Good	12	6		No	Spreading CR. Multi-stem	
45005	Tree of Heaven	<i>Ailanthus altissima</i>		REM	Good/Fair	18	6		Yes	Twin stems. Spreading CR	
70242	Crabapple species	<i>Malus spp</i>		REM	Good/Fair	24	6		No	3 twisting stems	
70244	Crabapple species	<i>Malus spp</i>		REM	Good/Fair	20	6		No	3 stem tree	
70275	Oregon oak	<i>Quercus garryana</i>		REM	Good	12	6		No	Shared CR space	
70325	Oregon oak	<i>Quercus garryana</i>		REM	Fair	7	6		No	Lost upper CR	
70329	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	16	6		No	Twining stem	

306	Oregon oak	<i>Quercus garryana</i>	Possible	REM	Good	20	7		No	No defects noted.	
307	Austrian pine	<i>Pinus nigra</i>		REM	Good/Fair	14	7		No	Twisting stem. Asymmetric CR	
308	Oregon oak	<i>Quercus garryana</i>		REM	Good/Fair	9	7		No	Thin CR	
309	Austrian pine	<i>Pinus nigra</i>		REM	Fair	12	7		No	Significant storm damage in upper CR	
310	Douglas hawthorn	<i>Crataegus douglasii</i>		REM	Good/Fair	30	7		No	12 small stems	
311	Photinia species	<i>Photinia spp</i>		REM	Fair	12	7		No	Multi-stem tree	
312	Photinia species	<i>Photinia spp</i>		REM	Good/Fair	15	7		No	Spreading CR. Multi-stem	
313	Photinia species	<i>Photinia spp</i>		REM	Good/Fair	28	7		No	Multiple large stems	
314	English hawthorn	<i>Crataegus monogyna</i>		REM	Fair	13	7		Yes	Multi-stem tree	
315	English hawthorn	<i>Crataegus monogyna</i>		REM	Fair	12	7		Yes	Multi-stem tree	
316	Photinia species	<i>Photinia spp</i>		REM	Fair/Good	14	7		No	Spreading CR. Multi-stem	
317	Photinia species	<i>Photinia spp</i>		REM	Fair/Good	13	7		No	Spreading CR. Multi-stem	
318	Photinia species	<i>Photinia spp</i>		REM	Fair/Good	14	7		No	Spreading CR. Multi-stem	
319	Photinia species	<i>Photinia spp</i>		REM	Good/Fair	30	7		No	Spreading CR. Multi-stem	
320	Photinia species	<i>Photinia spp</i>		REM	Good/Fair	34	7		No	Spreading CR. Multi-stem	
321	Photinia species	<i>Photinia spp</i>		REM	Fair/Good	16	7		No	Spreading CR. Multi-stem	
322	Photinia species	<i>Photinia spp</i>		REM	Fair/Good	18	7		No	Spreading CR. Multi-stem	
323	Oregon oak	<i>Quercus garryana</i>		REM	Good	6	7		No	Twin stems	
324	English hawthorn	<i>Crataegus monogyna</i>		REM	Fair	12	7		Yes	Multi-stem tree	
325	English hawthorn	<i>Crataegus monogyna</i>		REM	Fair	15	7		Yes	Multi-stem tree	
498	Photinia species	<i>Photinia spp</i>		REM	Good/Fair	23	7		No	Multiple large stems	
504	Photinia species	<i>Photinia spp</i>		REM	Good/Fair	16	7		No	Multiple large stems	
505	Cherry plum	<i>Prunus cerasifera</i>		REM	Fair/Poor	16	7		No	Group of stems. Significant upper CR decline	
75211	English hawthorn	<i>Crataegus monogyna</i>		REM	Good/Fair	20	7		Yes	5 stems	
75213	Photinia species	<i>Photinia spp</i>		REM	Good/Fair	25	7		No	Spreading CR. Multi-stem	
75215	Norway maple	<i>Acer platanoides</i>		REM	Good	18	7		Yes	Low spreading CR	
75217	Big leaf maple	<i>Acer macrophyllum</i>		REM	Good/Fair	35	7		No	Low CR multiple stems	
75222	Black locust	<i>Robinia pseudoacacia</i>		REM	Good/Fair	28	7		Yes	Strong CR development. Twin stems. Shared CR sp	
75223	Black locust	<i>Robinia pseudoacacia</i>		REM	Good/Fair	28	7		Yes	Strong CR development. Twin stems. Shared CR sp	
75229	Norway maple	<i>Acer platanoides</i>		REM	Good/Fair	22	7		Yes	3 codominant stems from ground	
75230	Photinia species	<i>Photinia spp</i>		REM	Good/Fair	30	7		No	Large stems from ground	
75385	Douglas fir	<i>Pseudotsuga menziesii</i>		PROTECT	Good/Fair	10	7		No	Thin CR	8-ft on DOT side of retaining wall
75507	Black locust	<i>Robinia pseudoacacia</i>		REM	Poor	18	7		Yes	Twin stems. Severe CR decline	
100637	Douglas fir	<i>Pseudotsuga menziesii</i>		REM	Dead	14	7		No	Branch structure still remains. Dead tree	
100925	Austrian pine	<i>Pinus nigra</i>		REM	Fair	19	7		No	Significant storm damage lower limbs	
100927	Austrian pine	<i>Pinus nigra</i>		REM	Good/Fair	22	7		No	Twisting stem. Large pruning cuts	
100928	Oregon oak	<i>Quercus garryana</i>		REM	Good	16	7		No	Good vigor. Strong CR development	
101200	Photinia species	<i>Photinia spp</i>		REM	Fair	23	7		No	6 stems. Declining	



LEGEND

- 10001 10002 Surveyed Trees
- 103 Tree identified during Tree Inventory, approximate location shown on plan
- Tree to be Removed
- HCA Buffer
- WRA Buffer
- HCA and WRA Buffer

Notes:

1. Survey of existing trees was conducted prior to Arborist Tree Inventory.
2. Trees added by the Tree Inventory are field-located by Arborist; these trees are indicated on the plan as "Tree Identified during Tree Inventory", see legend.
3. On single-stem trees, trunk diameter is determined by measuring the total number of inches around a tree at 54-inches from grade.
4. On multi-stem trees, trunk diameter is determined by the total number of inches of all stems that a tree may have, divided by the number of stems, 54-inches from grade.

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INFORMATION ONLY**

	NNA Landscape Architecture 1125 SE Madison St, Suite 201 Portland, OR 97214 503.239.0600	
I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY		
Designer: David Goodyke Drafter: David Goodyke	Reviewer: Ben Ngan Checker: Ben Ngan	SHEET NO. F_01
TREE INVENTORY		

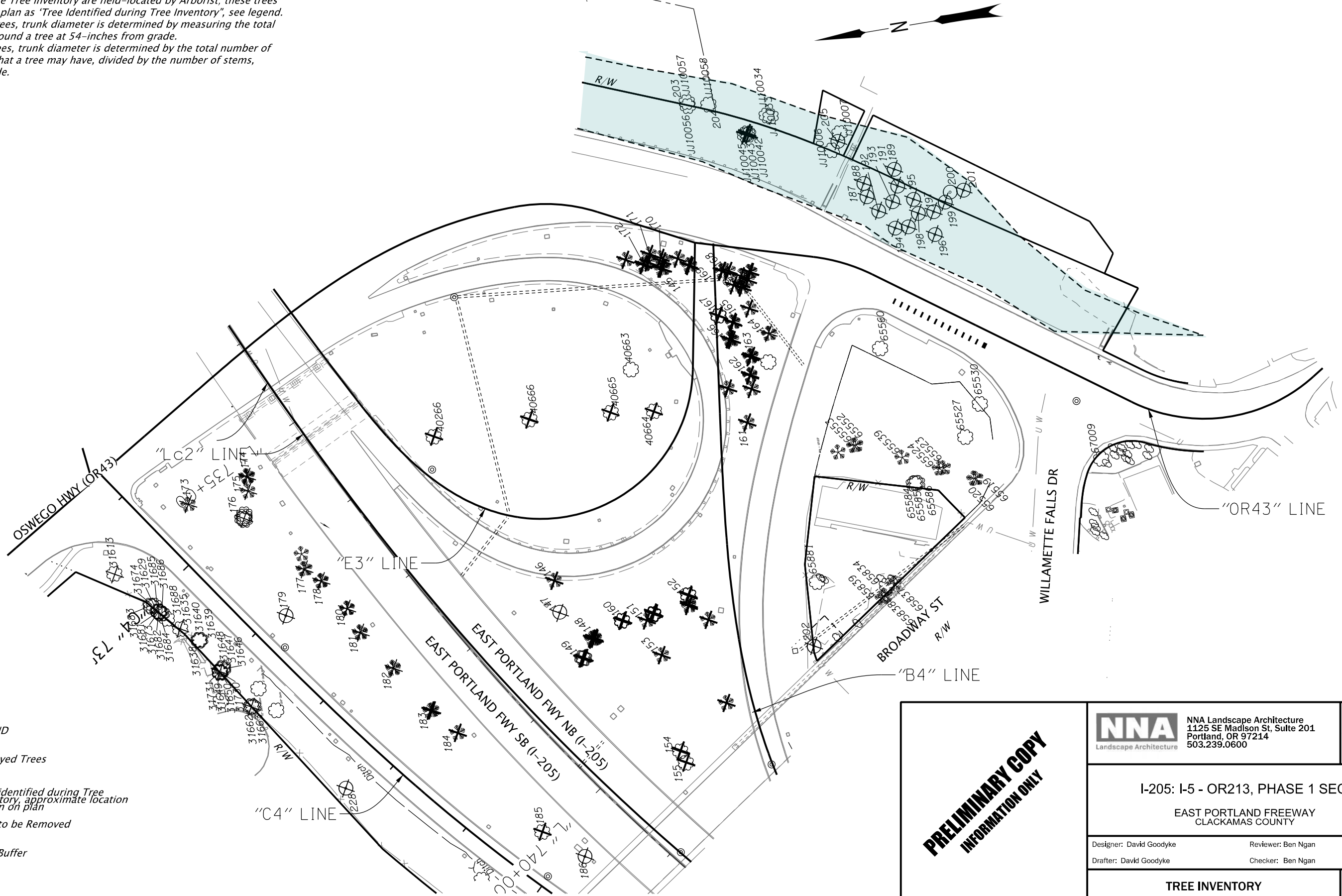
Sec. 30, T. 2 S, R. 2 E, W.M.
WEST LINN INTERCHANGE

Notes:

1. Survey of existing trees was conducted prior to Arborist Tree Inventory.
2. Trees added by the Tree Inventory are field-located by Arborist; these trees are indicated on the plan as "Tree Identified during Tree Inventory", see legend.
3. On single-stem trees, trunk diameter is determined by measuring the total number of inches around a tree at 54-inches from grade.
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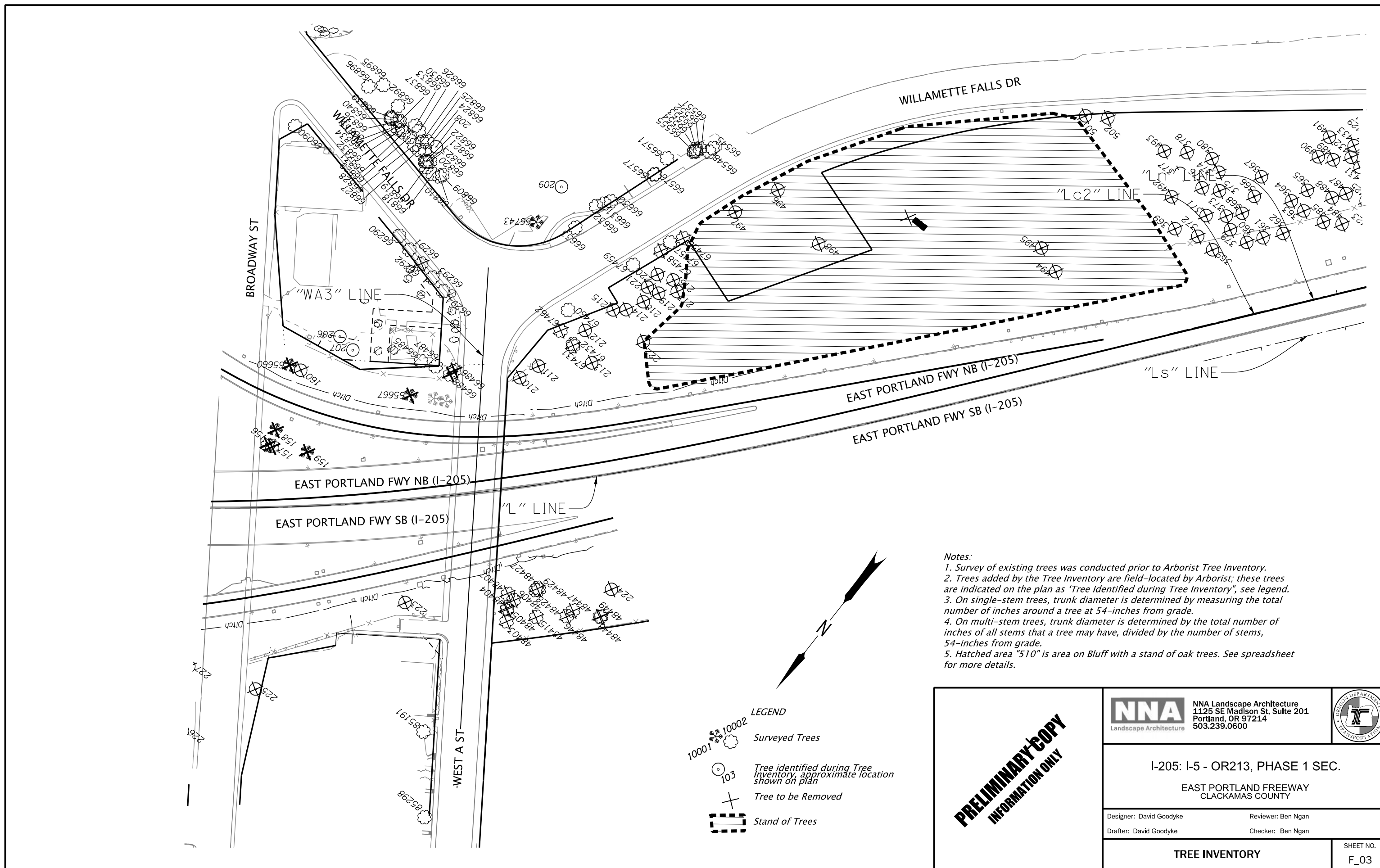
LEGEND

- 10001 10002 Surveyed Trees
- 103 Tree identified during Tree Inventory, approximate location shown on plan
- Tree to be Removed
- HCA Buffer



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INFORMATION ONLY**

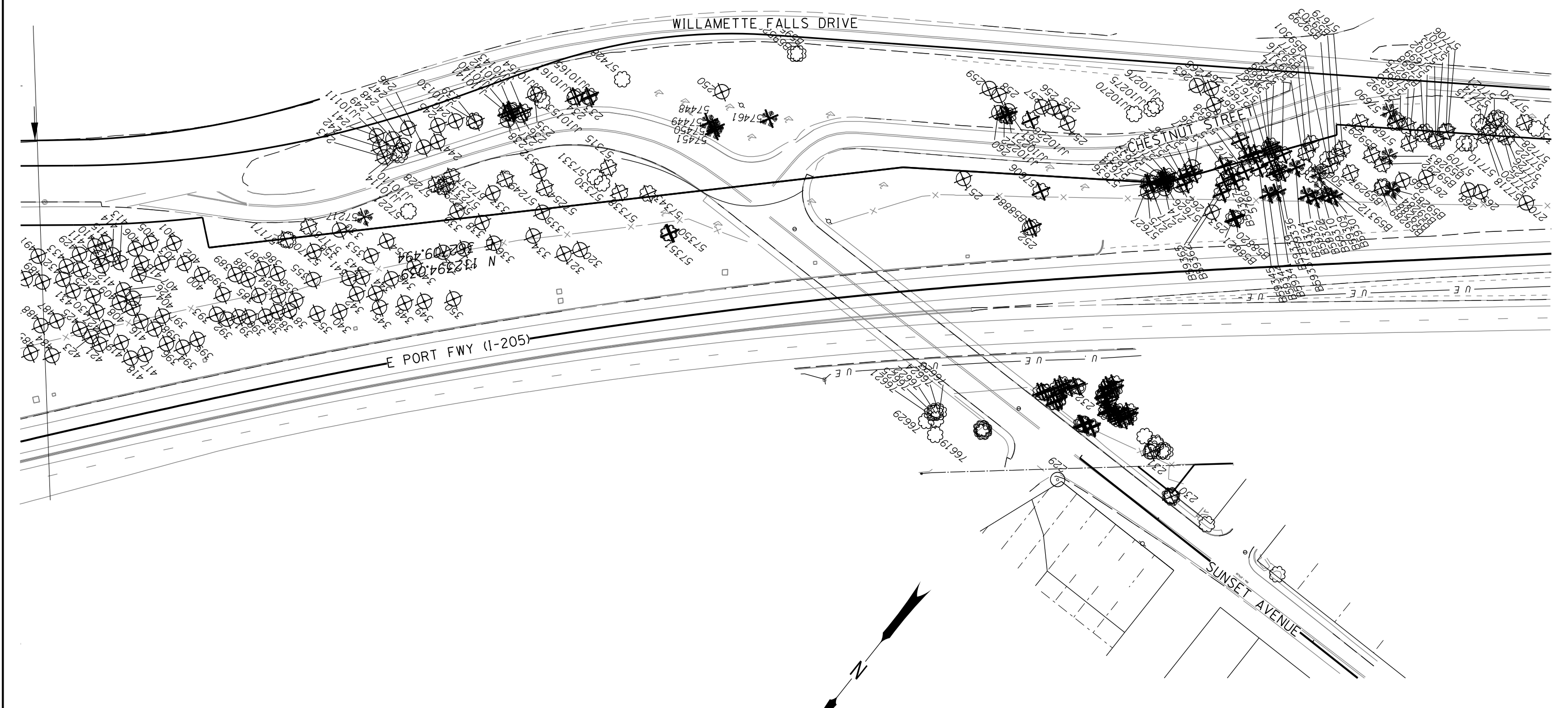
	NNA Landscape Architecture 1125 SE Madison St, Suite 201 Portland, OR 97214 503.239.0600	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	
Designer: David Goodyke Drafter: David Goodyke	Reviewer: Ben Ngan Checker: Ben Ngan	SHEET NO. F_02
TREE INVENTORY		



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Designer: David Goodyke Drafter: David Goodyke	Reviewer: Ben Ngan Checker: Ben Ngan	SHEET NO. F_03
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LEGEND

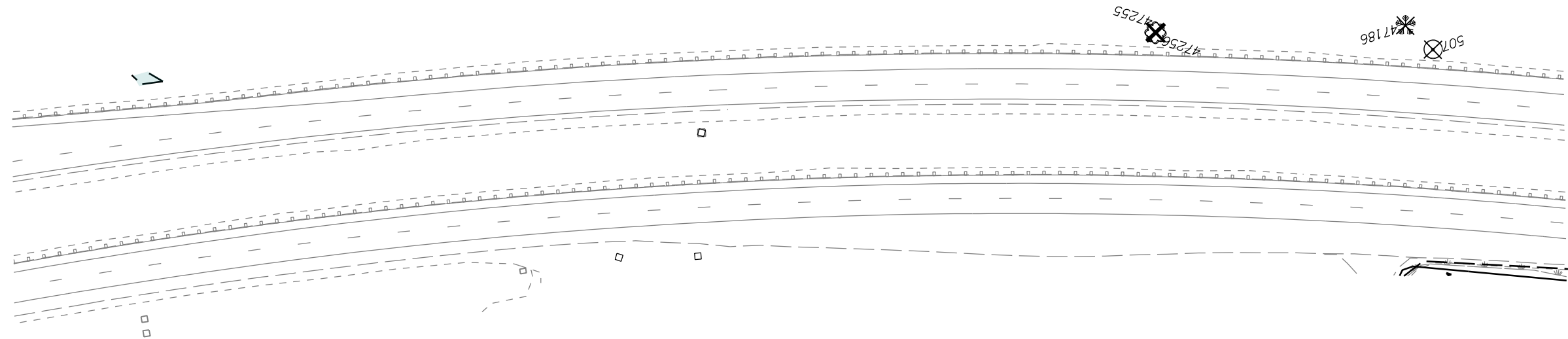
- 10001 10002 Surveved Trees
- 103 Tree identified during Tree Inventory, approximate location shown on plan
- Tree to be Removed

Notes:

1. Survey of existing trees was conducted prior to Arborist Tree Inventory.
2. Trees added by the Tree Inventory are field-located by Arborist; these trees are indicated on the plan as "Tree Identified during Tree Inventory", see legend.
3. On single-stem trees, trunk diameter is determined by measuring the total number of inches around a tree at 54-inches from grade.
4. On multi-stem trees, trunk diameter is determined by the total number of inches of all stems that a tree may have, divided by the number of stems, 54-inches from grade.

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	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	
Designer: David Goodyke Drafter: David Goodyke	Reviewer: Ben Ngan Checker: Ben Ngan	SHEET NO. F_04
TREE INVENTORY		



LEGEND

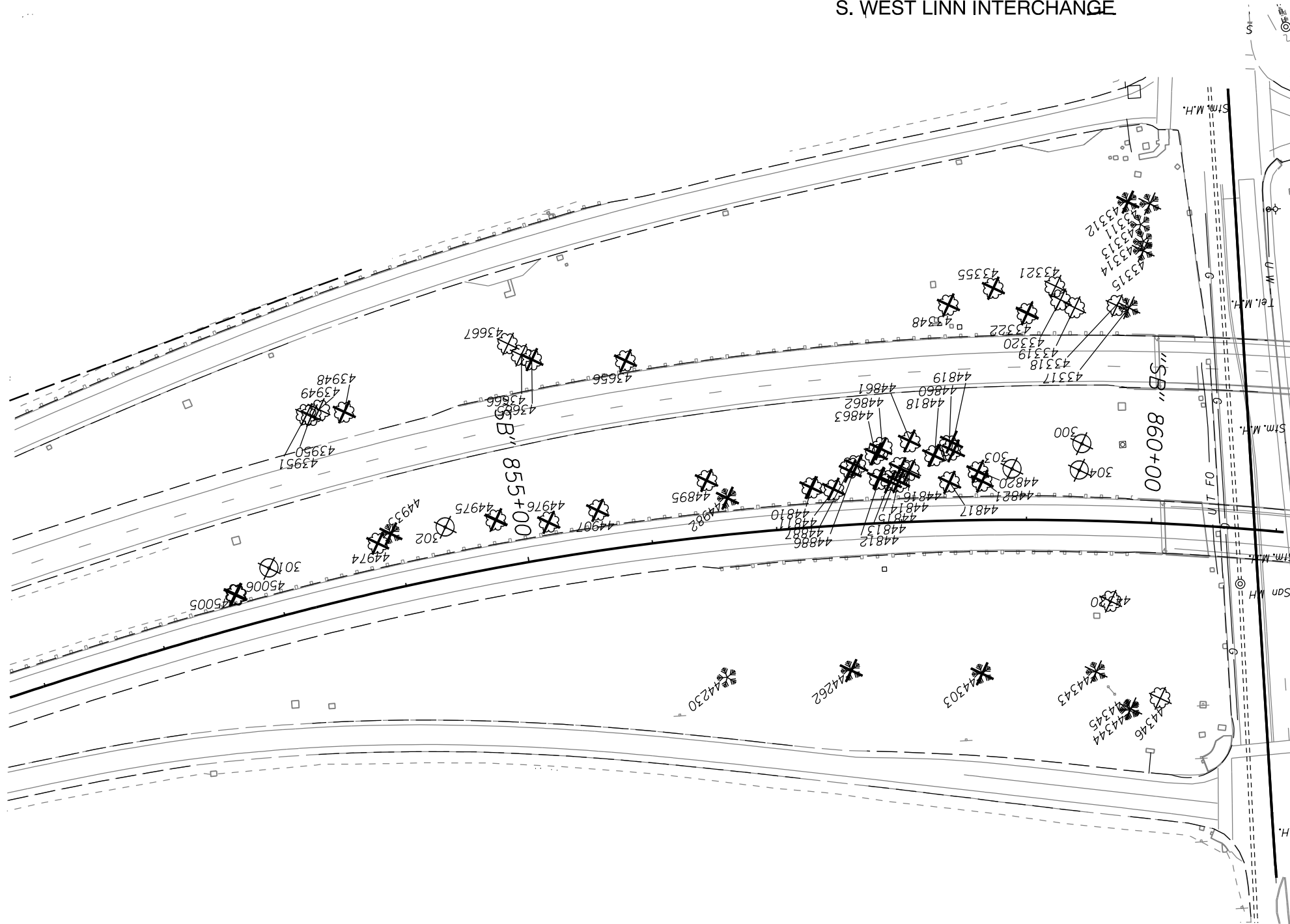
- 10001 10002
Surveyed Trees
- 103
Tree identified during Tree Inventory, approximate location shown on plan
- Tree to be Removed
- HCA Buffer

Notes:

1. Survey of existing trees was conducted prior to Arborist Tree Inventory.
2. Trees added by the Tree Inventory are field-located by Arborist; these trees are indicated on the plan as "Tree Identified during Tree Inventory", see legend.
3. On single-stem trees, trunk diameter is determined by measuring the total number of inches around a tree at 54-inches from grade.
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	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	
	Designer: David Goodyke Drafter: David Goodyke	Reviewer: Ben Ngan Checker: Ben Ngan

Sec. 35, T. 2 S, R. 1 E, W.M.
S. WEST LINN INTERCHANGE

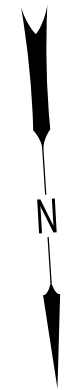


LEGEND

- 10001 10002
Surveyed Trees
- 103
Tree identified during Tree Inventory, approximate location shown on plan
- Tree to be Removed

Notes:

1. Survey of existing trees was conducted prior to Arborist Tree Inventory.
2. Trees added by the Tree Inventory are field-located by Arborist; these trees are indicated on the plan as "Tree Identified during Tree Inventory", see legend.
3. On single-stem trees, trunk diameter is determined by measuring the total number of inches around a tree at 54-inches from grade.
4. On multi-stem trees, trunk diameter is determined by the total number of inches of all stems that a tree may have, divided by the number of stems, 54-inches from grade.



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NNA Landscape Architecture
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503.239.0600







I-205: I-5 - OR213, PHASE 1 SEC.
EAST PORTLAND FREEWAY
CLACKAMAS COUNTY

Designer: David Goodyke Reviewer: Ben Ngan
Drafter: David Goodyke Checker: Ben Ngan

TREE INVENTORY SHEET NO. F_06

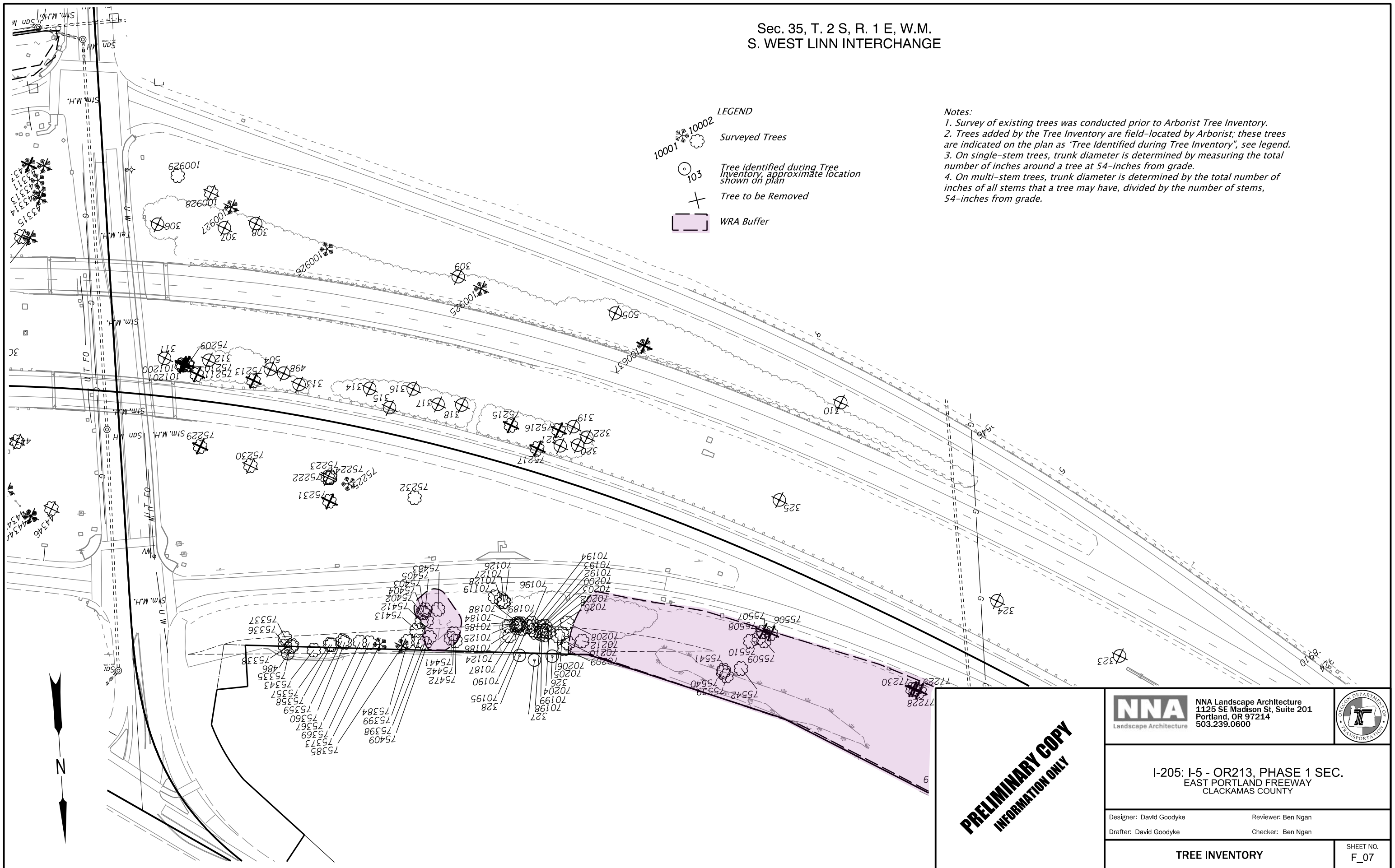
Sec. 35, T. 2 S, R. 1 E, W.M.
S. WEST LINN INTERCHANGE

LEGEND

-  Surveyed Trees
-  Tree identified during Tree Inventory, approximate location shown on plan
-  Tree to be Removed
-  WRA Buffer

Notes:

1. Survey of existing trees was conducted prior to Arborist Tree Inventory.
2. Trees added by the Tree Inventory are field-located by Arborist; these trees are indicated on the plan as "Tree Identified during Tree Inventory", see legend.
3. On single-stem trees, trunk diameter is determined by measuring the total number of inches around a tree at 54-inches from grade.
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1125 SE Madison St, Suite 201
Portland, OR 97214
503.239.0600



I-205: I-5 - OR213, PHASE 1 SEC.
EAST PORTLAND FREEWAY
CLACKAMAS COUNTY

Designer: David Goodyke Reviewer: Ben Ngan
Drafter: David Goodyke Checker: Ben Ngan

TREE INVENTORY SHEET NO. **F_07**

GENERAL NOTES:

The construction, adjustment, maintenance, and upgrading of these Erosion and Sediment Control measures is the responsibility of the contractor for the duration of the project to comply with Section 00280 of the Oregon Standard Specifications for construction and the NPDES 1200-CA permit.

Erosion and Sediment Control measures shown on this plan are for anticipated site conditions. Adjust or upgrade these measures for unexpected storm events to ensure that sediment and sediment-laden water does not leave the site.

Develop a revised plan of the Erosion and Sediment Control measures shown as required by Section 00280, Oregon Standard Specifications for Construction. Implement this plan for all clearing and grading activities and in segments applicable to each staging phase. Construct in such a manner so as to ensure that sediment and sediment-laden water does not enter the roadway or drainage system, or violate applicable water standards.

Install measures within the right-of-way unless directed otherwise.

Inlet protection for existing facilities shall be installed before construction begins and shall remain in place until all construction is completed and approved. The contractor shall protect all storm drain inlets within the work area and adjacent to the work limits within 100' outside all working, stockpile, and staging areas, including the first inlet downstream (at any distance). In the case of inlets to be removed, protection measures shall remain in place until the new inlet is constructed and connected to the drainage network, and the existing inlet has been disconnected from the existing drainage network. Inlet protection shall be installed on new inlets before they are connected to the existing drainage network.

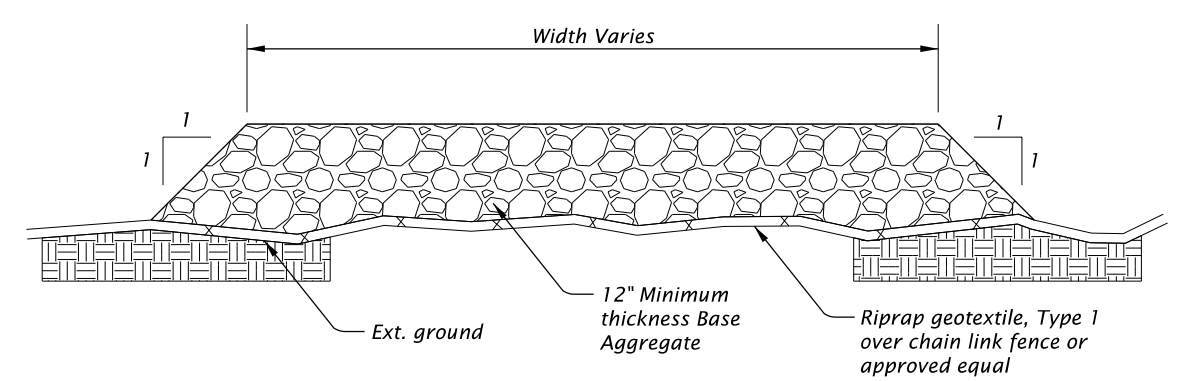
See section 00280 for material not shown in plans.

STANDARD DRAWINGS

- RD1000 Construction Entrances
- RD1005 Check Dams Type 1, 3 and 4
- RD1006 Check Dams Type 2 and 6
- RD1010 Inlet Protection Type 2, 3, 6, 7 10 and 11
- RD1015 Inlet Protection Type 4
- RD1030 Sediment Barrier Type 2, 3 and 4
- RD1031 Sediment Barrier Type 5 and 6
- RD1032 Sediment Barrier Type 8
- RD1033 Sediment Barrier Type 9
- RD1040 Sediment Fence
- RD1045 Temporary Slope Drain With Energy Dissipator
- RD1050 Temporary Scour Basin / Energy Dissipator
- RD1055 Slope and Channel Matting
- RD1060 Tire Wash Facility Type 1 and 2
- RD1065 Sediment Trap
- RD1070 Concrete Truck Wash Out

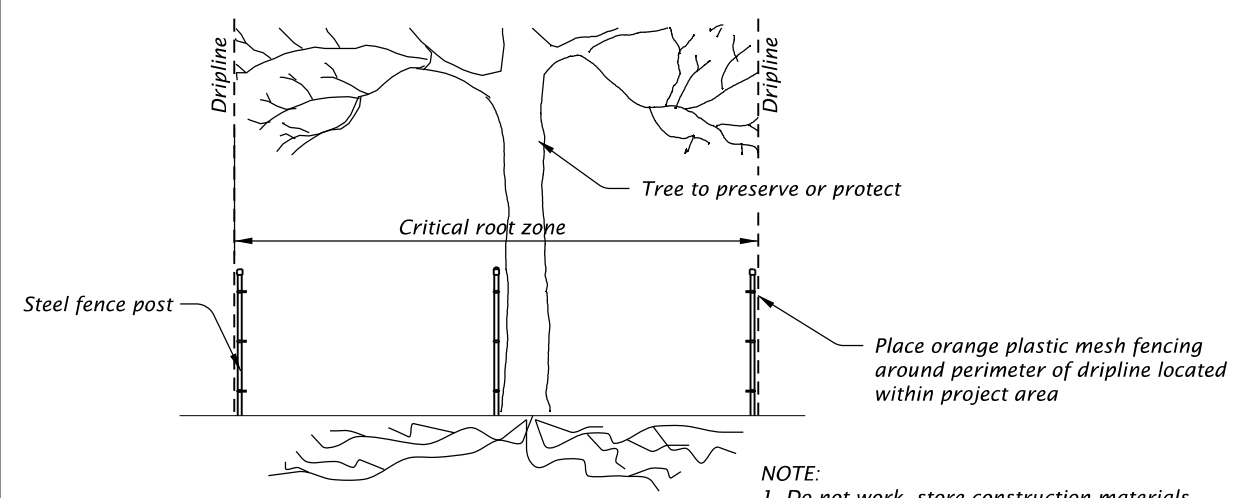
SEQUENCE OF WORK NOTES:

This Erosion and Sediment Control Plan has been prepared based upon the construction sequence represented in the Traffic Control Plan Sheets. This ESCP is not intended to supercede a construction sequencing plan. The ESCP is to be reviewed and revised to fit the actual construction sequence.



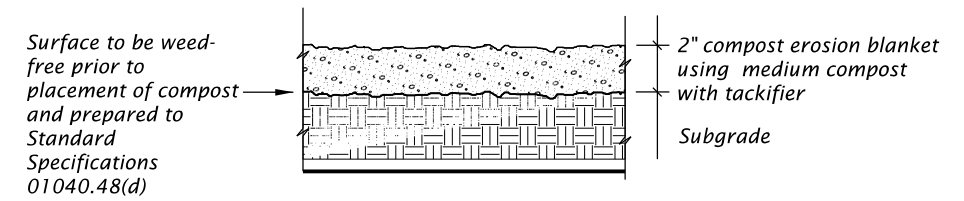
1. Existing ground shall be grubbed to a depth 6".
2. Cover existing ground under Staging Area with riprap geotextile and either chain link fence or other approved geogrid type material and cover with Base Aggregate.
3. Applies to contractor staging within environmentally sensitive and regulated work areas.

STAGING AREA DETAIL
N.T.S.

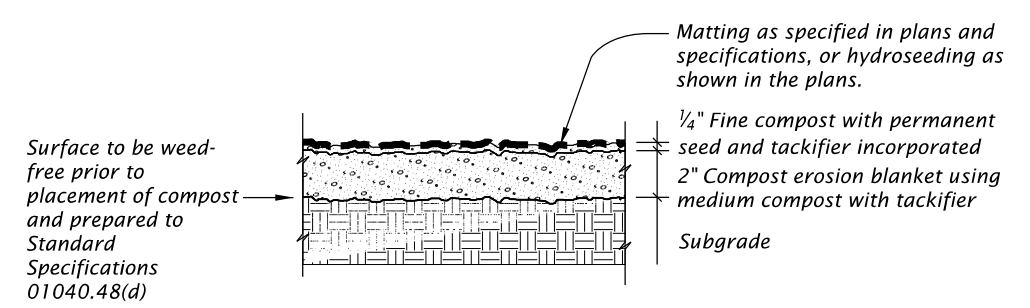


TREE PROTECTION DETAIL
N.T.S.

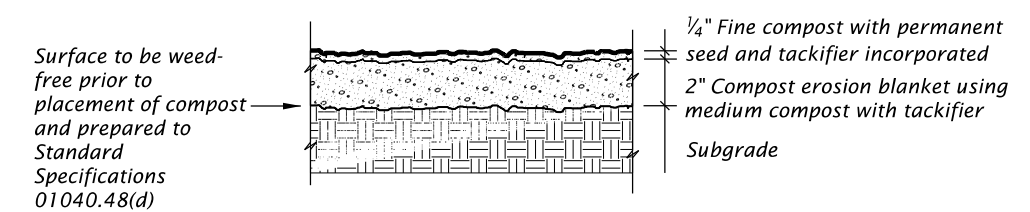
- NOTE:**
1. Do not work, store construction materials or park within the critical root zone of marked trees unless written approval has been obtained from the Engineer.
 2. Areas bounded by temporary orange fence denote protected no work areas such as trees, wetlands, cultural resources, etc.
 3. Place check dams in ditch sections.



APPLICATION - TEMPORARY/PERMANENT MULCHING
N.T.S.



APPLICATION - STEEP SLOPES, SHALLOW DITCHES & BIO-SWALES
N.T.S.



APPLICATION - TEMPORARY/PERMANENT VEGETATIVE COVER
N.T.S.

Graphic symbols are approximate. Place Erosion Control measures as required or directed.

REGISTERED PROFESSIONAL
ENGINEER
7791
M. RAHM
APR 4, 2011
SUBJECT TO CHANGE
EXPIRES: DEC. 31, 2022

HDR HDR ENGINEERING, INC
1050 SW 6TH AVENUE, SUITE 1800
PORTLAND, OR 97204-1134
503.423.3700

I-205: I-5 - OR213, PHASE 1 SEC.

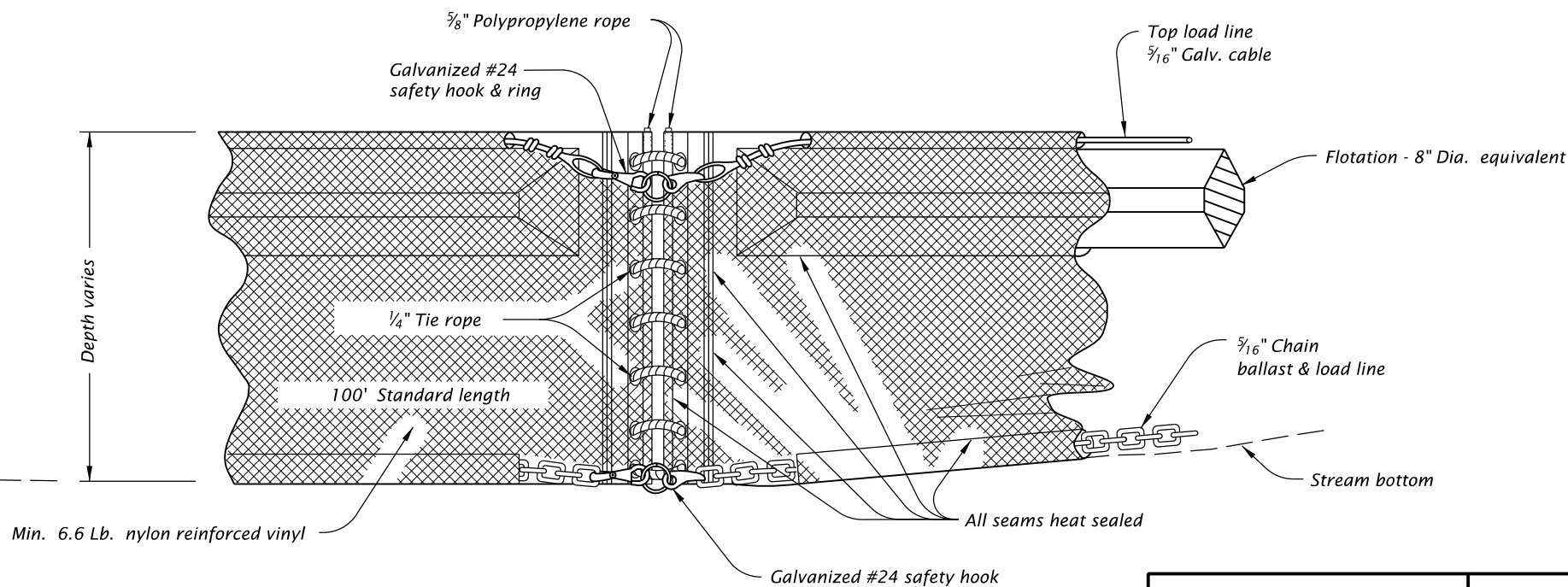
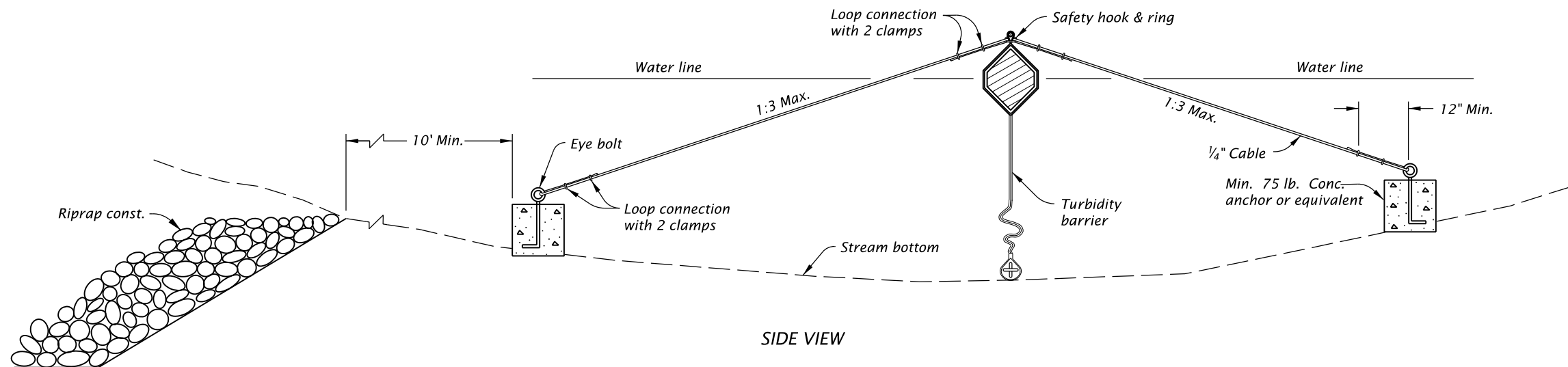
EAST PORTLAND FREEWAY
CLACKAMAS COUNTY

Designer: Jason Rahm Reviewer: Matt Steigleder
Drafter: Connor Donovan Checker: Brendan LeBlanc

EROSION AND SEDIMENT CONTROL

SHEET NO.
FB01

SEDIMENT BARRIER FLOATING

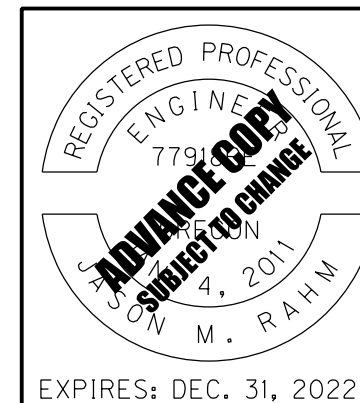


NOTE:

Components of this barrier may be similar or identical to proprietary designs. Any infringement on the proprietary rights of the designer shall be the sole responsibility of the contractor. Substitutions shall be as approved by the engineer.

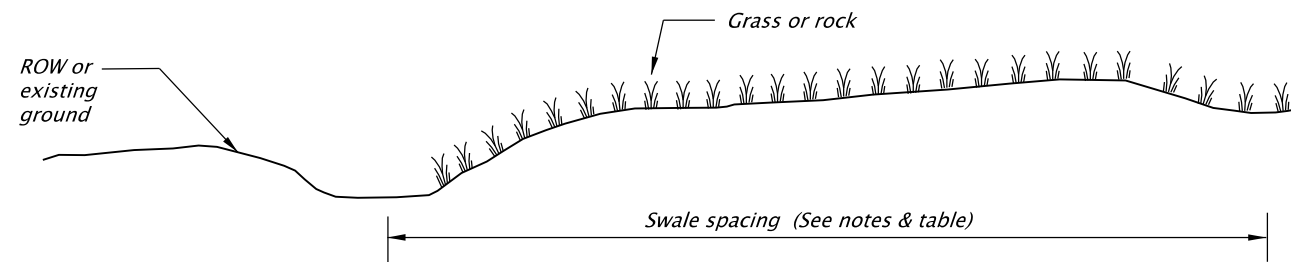
ANCHOR ASSEMBLY

TURBIDITY BARRIER



	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	
Designer: Jason Rahm Drafter: Connor Donovan	Reviewer: Matt Steigleder Checker: Brendan LeBlanc	SHEET NO. FB02
EROSION AND SEDIMENT CONTROL		

TEMPORARY INTERCEPTOR SWALE TYPE 1



SECTION

Swale Spacing	
Slope	Spacing
3-5%	300'
5-10%	200'
10-25%	100'
25-50%	50'

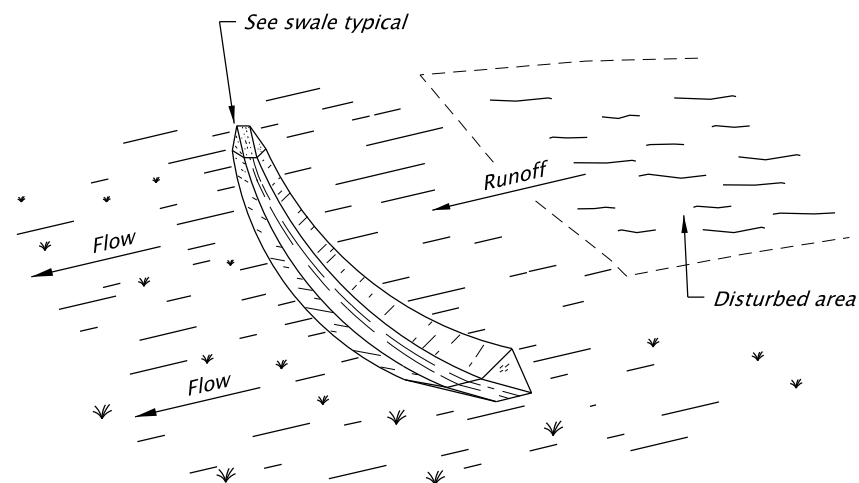
Notes:

Bottom width = 24" minimum at a 0% grade.

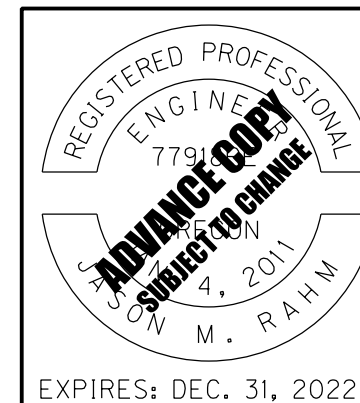
Depth = 12" minimum

Side slope = 1:2 or flatter

Grade = maximum 5 percent with positive drainage to a suitable outlet (such as sedimentation pond)



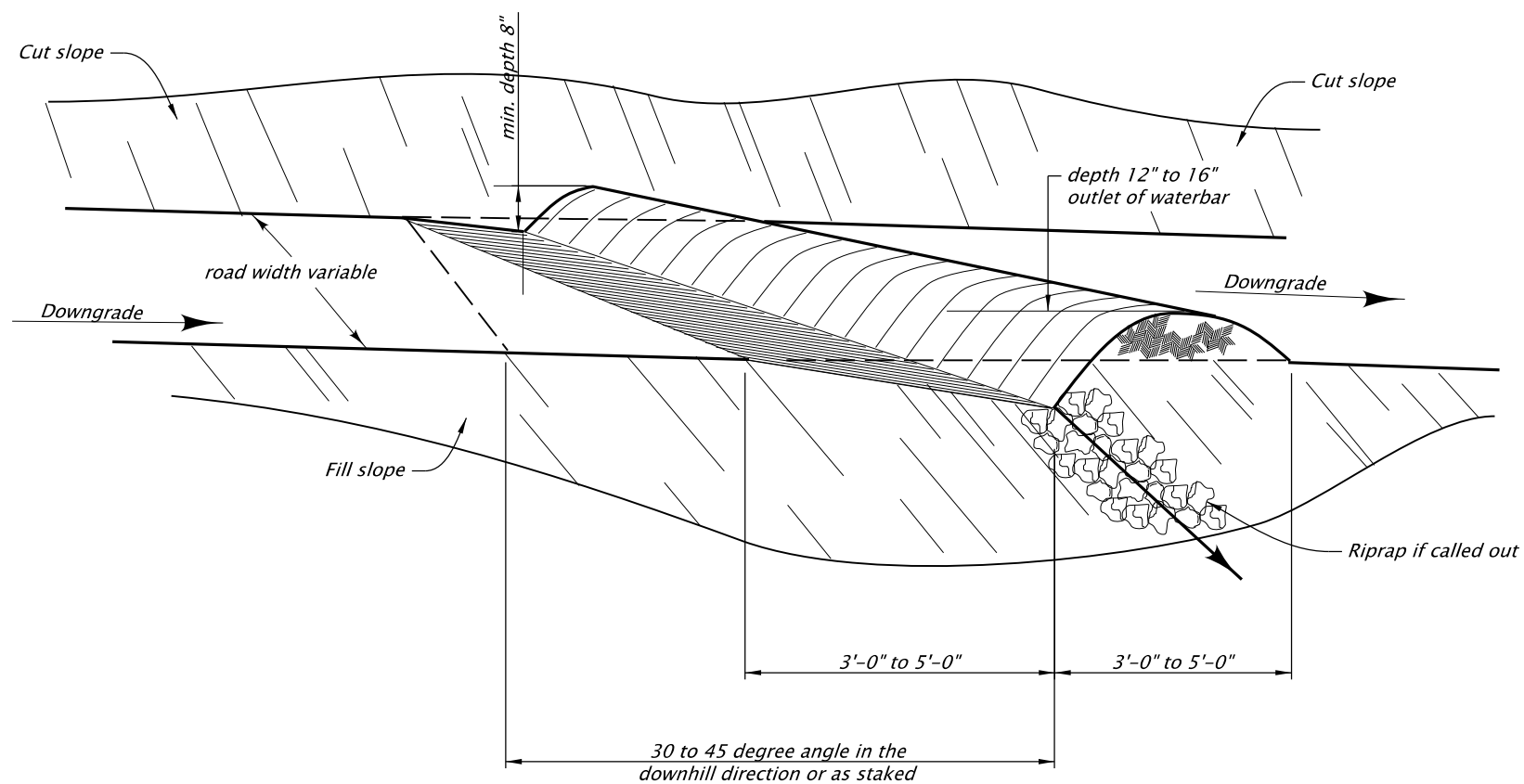
Notes:
Discharge onto undisturbed area
or alternate sediment trapping device



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	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	

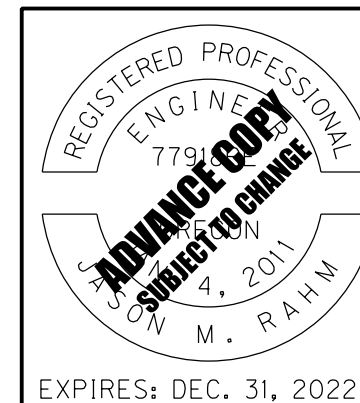
Designer: Jason Rahm Drafter: Connor Donovan	Reviewer: Matt Steigleder Checker: Brendan LeBlanc
EROSION CONTROL DETAILS	
SHEET NO. FB03	

WATERBAR



NOTES:

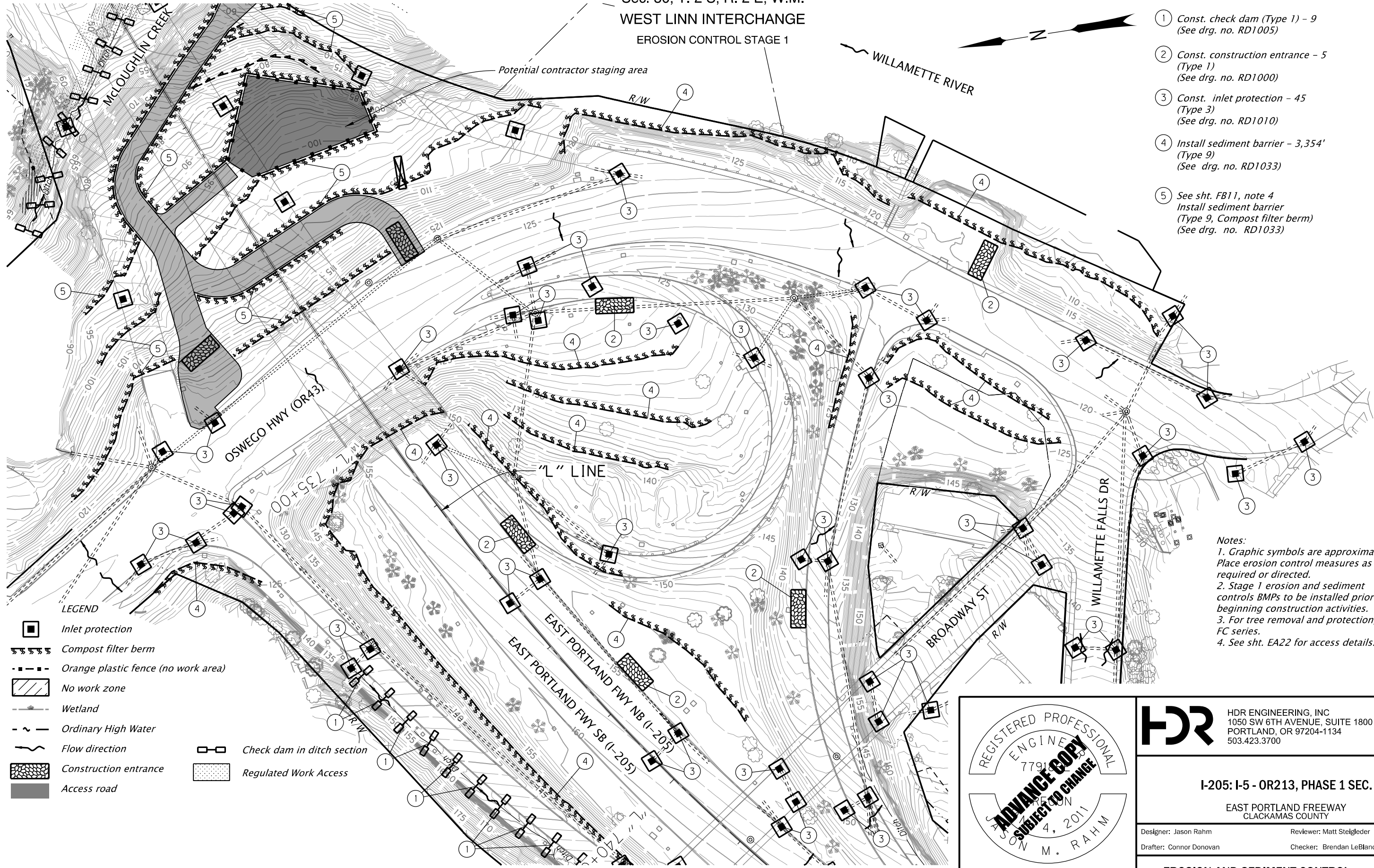
1. Begin waterbars at the intersection of the roadbed and cut slope, and run across the entire width of the roadbed.
2. Ensure waterbars have a free flowing outlet for drainage.
3. Ensure that waterbars allow for passage of a construction equipment.



 HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	 OREGON DEPARTMENT OF TRANSPORTATION
Designer: Jason Rahm Drafter: Connor Donovan	Reviewer: Matt Steigleder Checker: Brendan LeBlanc
EROSION CONTROL DETAILS	
SHEET NO. FB04	

Sec. 30, T. 2 S, R. 2 E, W.M.
WEST LINN INTERCHANGE
 EROSION CONTROL STAGE 1

??V-???



- ① Const. check dam (Type 1) - 9
(See drg. no. RD1005)
- ② Const. construction entrance - 5
(Type 1)
(See drg. no. RD1000)
- ③ Const. inlet protection - 45
(Type 3)
(See drg. no. RD1010)
- ④ Install sediment barrier - 3,354'
(Type 9)
(See drg. no. RD1033)
- ⑤ See sht. FB11, note 4
Install sediment barrier
(Type 9, Compost filter berm)
(See drg. no. RD1033)

Notes:
 1. Graphic symbols are approximate.
 Place erosion control measures as
 required or directed.
 2. Stage 1 erosion and sediment
 controls BMPs to be installed prior to
 beginning construction activities.
 3. For tree removal and protection, see
 FC series.
 4. See sht. EA22 for access details.

LEGEND

- Inlet protection
- Compost filter berm
- Orange plastic fence (no work area)
- No work zone
- Wetland
- Ordinary High Water
- Flow direction
- Check dam in ditch section
- Regulated Work Access
- Construction entrance
- Access road

REGISTERED PROFESSIONAL
 ENGINEER
 7791
ADVANCE COPY
 SUBJECT TO CHANGE
 APR 4, 2011
 JASON M. RAHM

EXPIRES: DEC. 31, 2022

HDR HDR ENGINEERING, INC
 1050 SW 6TH AVENUE, SUITE 1800
 PORTLAND, OR 97204-1134
 503.423.3700

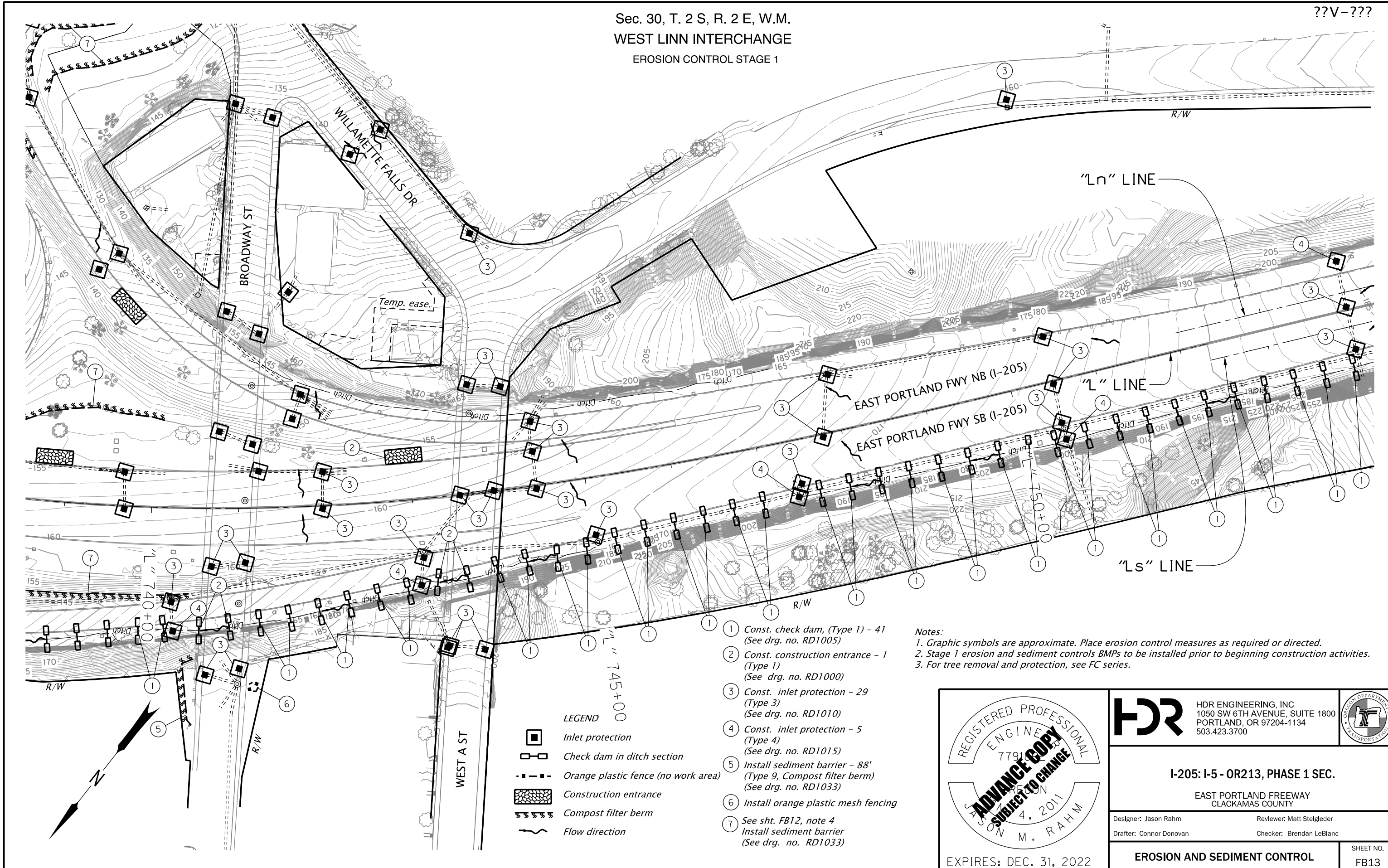
I-205: I-5 - OR213, PHASE 1 SEC.
 EAST PORTLAND FREEWAY
 CLACKAMAS COUNTY

Designer: Jason Rahm Reviewer: Matt Steigleder
 Drafter: Connor Donovan Checker: Brendan LeBlanc

EROSION AND SEDIMENT CONTROL SHEET NO. FB12

Sec. 30, T. 2 S, R. 2 E, W.M.
 WEST LINN INTERCHANGE
 EROSION CONTROL STAGE 1

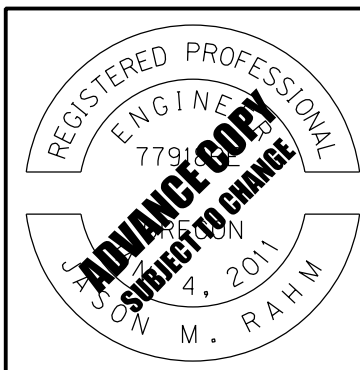
??V-???



- LEGEND**
- Inlet protection
 - Check dam in ditch section
 - Orange plastic fence (no work area)
 - Construction entrance
 - Compost filter berm
 - Flow direction

- ① Const. check dam, (Type 1) - 41
(See drg. no. RD1005)
- ② Const. construction entrance - 1
(Type 1)
(See drg. no. RD1000)
- ③ Const. inlet protection - 29
(Type 3)
(See drg. no. RD1010)
- ④ Const. inlet protection - 5
(Type 4)
(See drg. no. RD1015)
- ⑤ Install sediment barrier - 88'
(Type 9, Compost filter berm)
(See drg. no. RD1033)
- ⑥ Install orange plastic mesh fencing
- ⑦ See sht. FB12, note 4
Install sediment barrier
(See drg. no. RD1033)

Notes:
 1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 1 erosion and sediment controls BMPs to be installed prior to beginning construction activities.
 3. For tree removal and protection, see FC series.



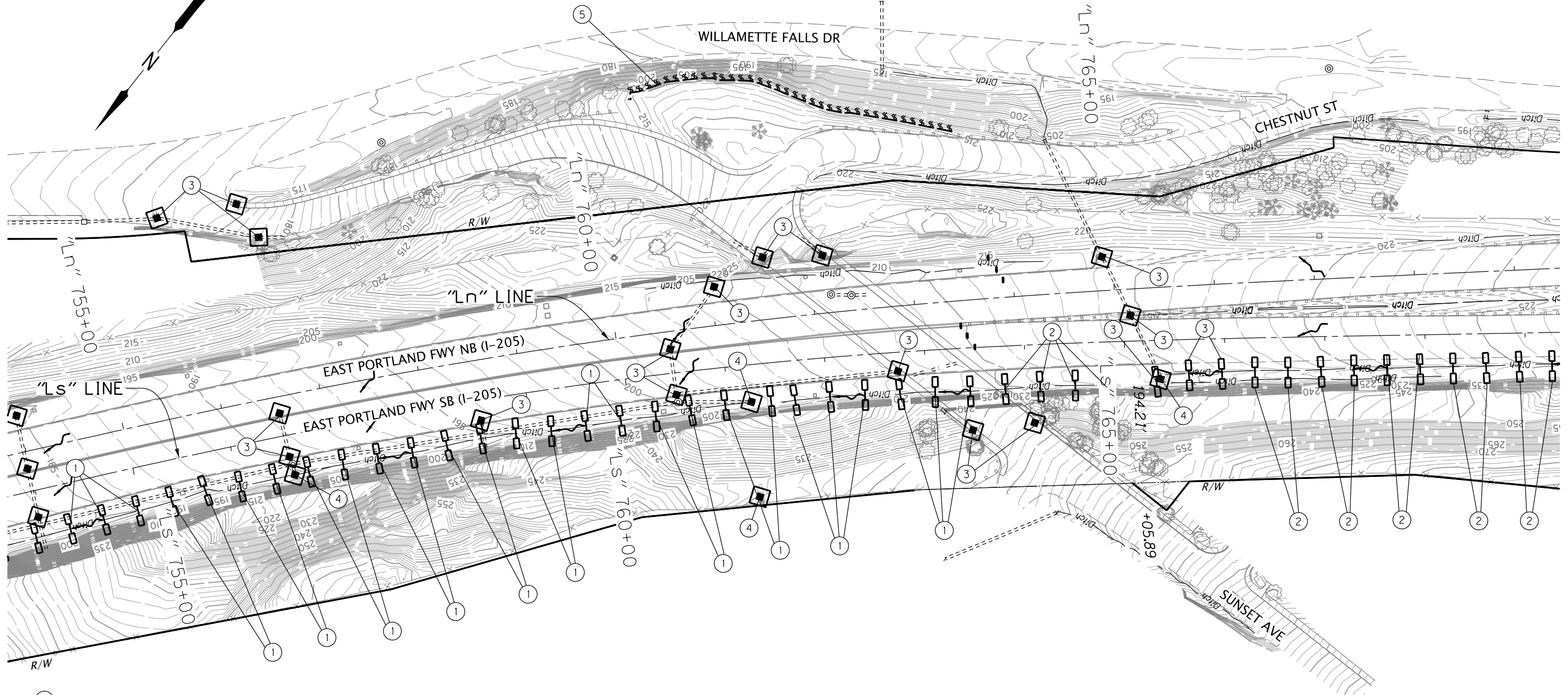
EXPIRES: DEC. 31, 2022

HDR	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC.	

EAST PORTLAND FREEWAY CLACKAMAS COUNTY	
Designer: Jason Rahm	Reviewer: Matt Steigleder
Drafter: Connor Donovan	Checker: Brendan LeBlanc

EROSION AND SEDIMENT CONTROL	SHEET NO. FB13
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EROSION CONTROL STAGE 1



- ① Const. check dam, (Type 1) - 31
(See drg. no. RD1005)
- ② Const. check dam, (Type 6) - 13
(See drg. no. RD1006)
- ③ Const. inlet protection - 16
(Type 3)
(See drg. no. RD1010)
- ④ Const. inlet protection - 4
(Type 4)
(See drg. no. RD1015)
- ⑤ Install sediment barrier - 339'
(Type 9, Compost filter berm)
(See drg. no. RD1033)

LEGEND

- Inlet protection
- Check dam in ditch section
- Compost filter berm
- Flow direction

Notes:
 1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 1 erosion and sediment controls BMPs to be installed prior to beginning construction activities.
 3. For tree removal and protection, see FC series.



	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	

Designer: Jason Rahm	Reviewer: Matt Steigleder
Drafter: Connor Donovan	Checker: Brendan LeBlanc

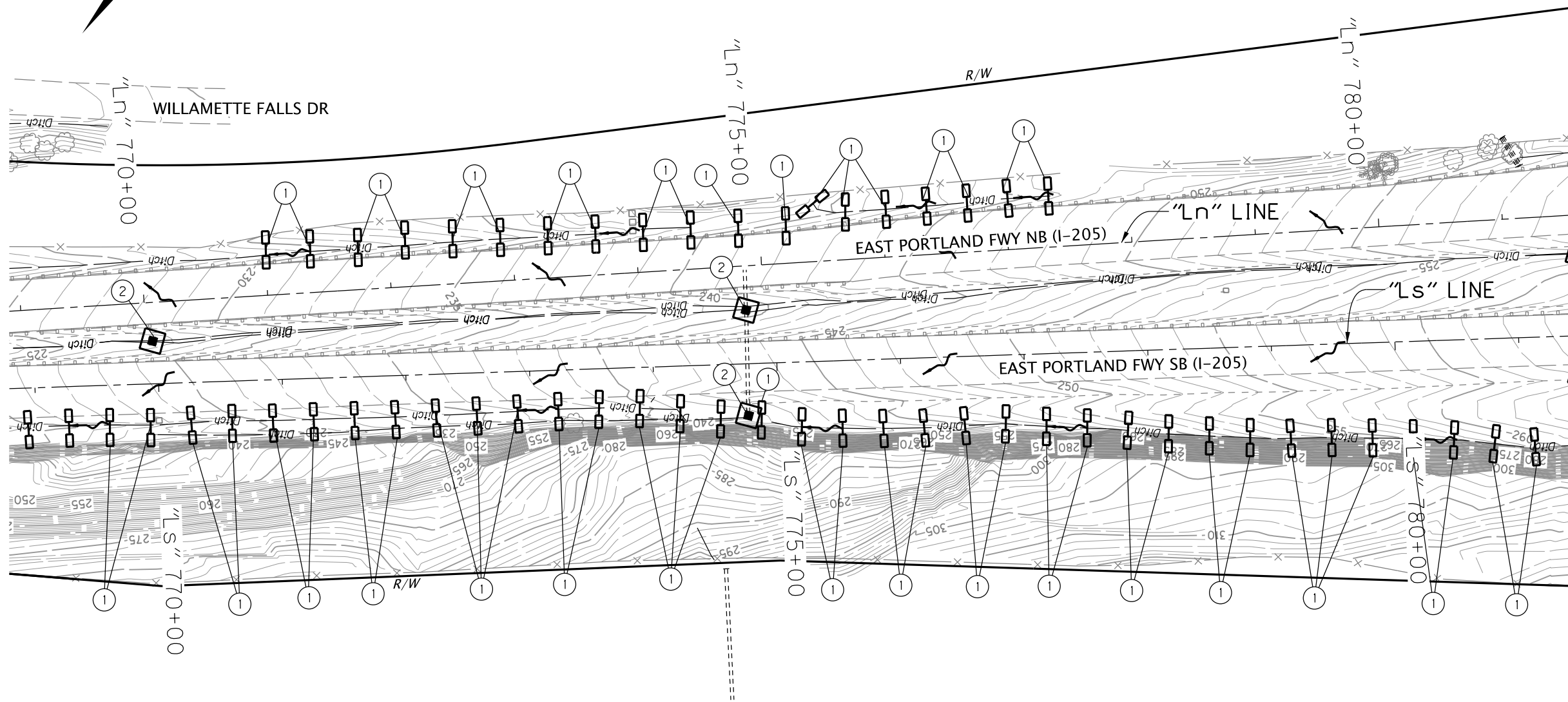
EROSION AND SEDIMENT CONTROL	SHEET NO. FB14
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Sec. 31, T. 2 S, R 2 E & Sec. 36, T. 2 S, R. 1 E, W.M.

EROSION CONTROL STAGE 1

??V-???

- ① Const. check dam, (Type 6) - 55
(See drg. no. RD1006)
- ② Const. inlet protection - 3
(Type 4)
(See drg. no. RD1015)



LEGEND

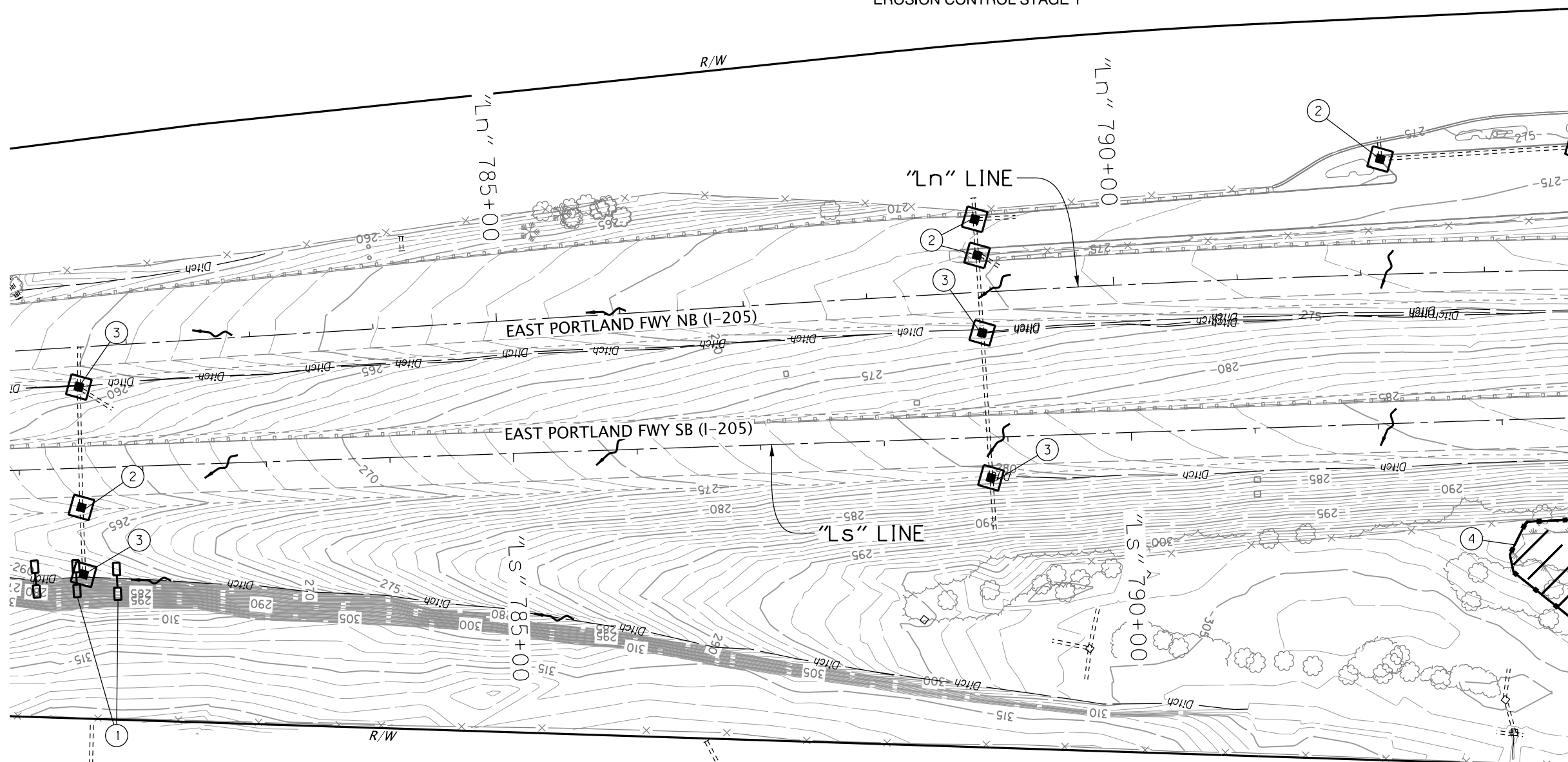
- Inlet protection
- Check dam in ditch section
- Flow direction

- Notes:**
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 1 erosion and sediment controls BMPs to be installed prior to beginning construction activities.
 3. For tree removal and protection, see FC series.

REGISTERED PROFESSIONAL
ENGINEER
7791
JASON RAHM
M. RAHM
APR 4, 2011
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EXPIRES: DEC. 31, 2022

	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	
Designer: Jason Rahm Drafter: Connor Donovan	Reviewer: Matt Steigleder Checker: Brendan LeBlanc	SHEET NO. FB15
EROSION AND SEDIMENT CONTROL		



- ① Const. check dam, (Type 6) - 2
(See drg. no. RD1006)
- ② Const. inlet protection - 4
(Type 3)
(See drg. no. RD1010)
- ② Const. inlet protection - 4
(Type 34)
(See drg. no. RD1015)
- ④ Install orange plastic mesh fencing - 351'

LEGEND

- Inlet protection
- Check dam in ditch section
- Flow direction
- Orange plastic fence (no work area)
- Wetland
- Compost filter berm
- No work zone

Notes:
 1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 1 erosion and sediment controls BMPs to be installed prior to beginning construction activities.
 3. For tree removal and protection, see FC series.

REGISTERED PROFESSIONAL
 ENGINEER
 7791
 JASON M. RAHM
 APR 4, 2011
 EXPIRES: DEC. 31, 2022

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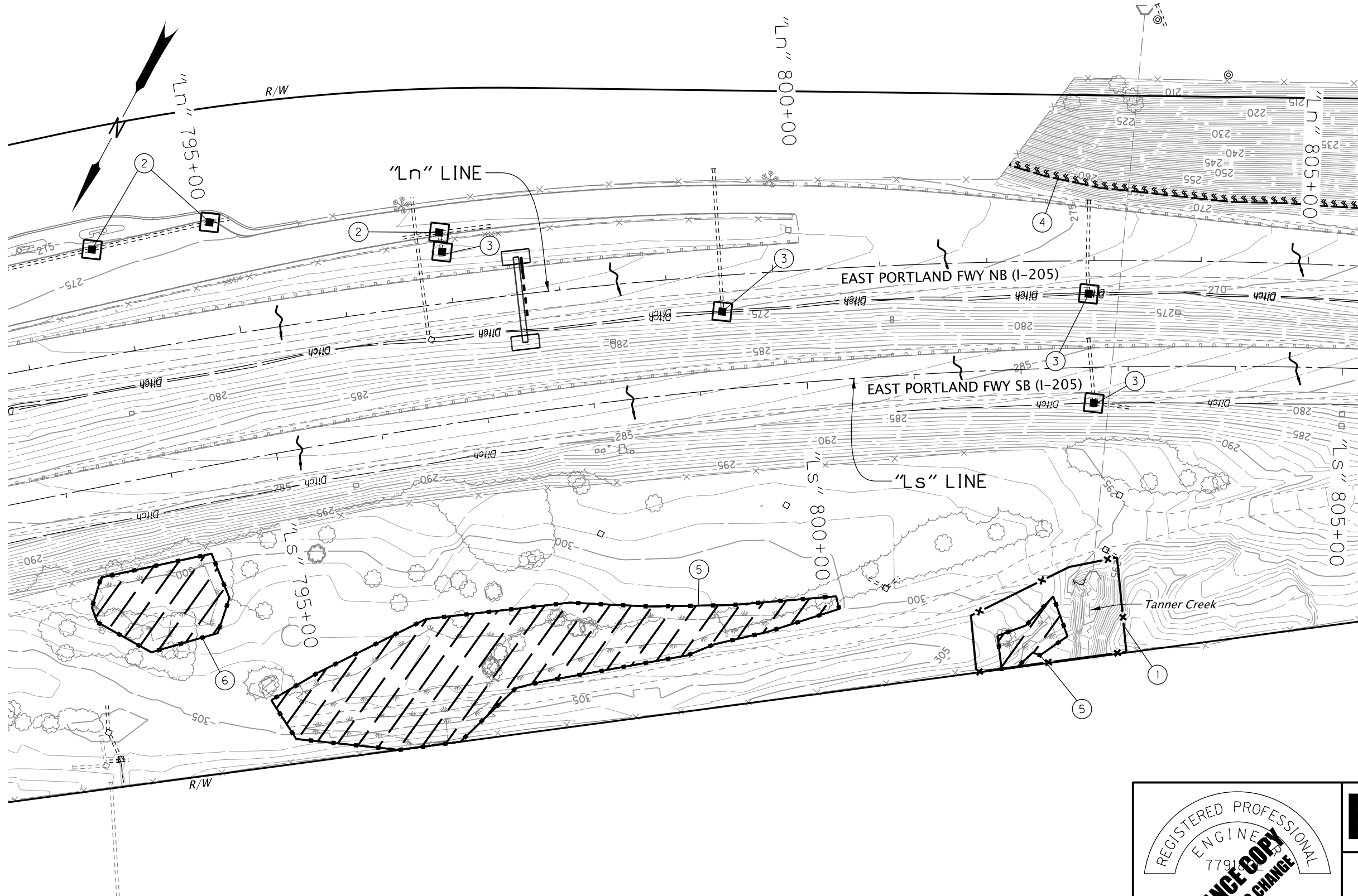
HDR HDR ENGINEERING, INC
 1050 SW 6TH AVENUE, SUITE 1800
 PORTLAND, OR 97204-1134
 503.423.3700

OREGON DEPARTMENT OF TRANSPORTATION

I-205: I-5 - OR213, PHASE 1 SEC.
 EAST PORTLAND FREEWAY
 CLACKAMAS COUNTY

Designer: Jason Rahm Reviewer: Matt Steigleder
 Drafter: Connor Donovan Checker: Brendan LeBlanc

EROSION AND SEDIMENT CONTROL SHEET NO. FB16

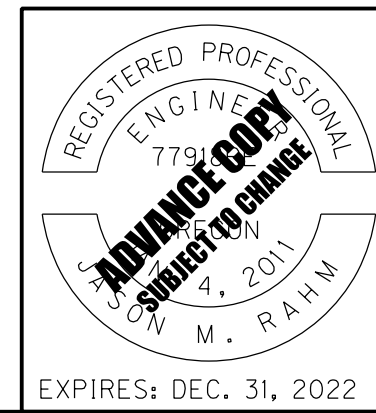


- ① Const. temp. CL-6 fence
- ② Const. inlet protection - 3 (Type 3) (See drg. no. RD1010)
- ③ Const. inlet protection - 4 (Type 4) (See drg. no. RD1015)
- ④ Install sediment barrier - 4,993' (Type 9, Compost filter berm) (See drg. no. RD1033)
- ⑤ Install orange plastic mesh fencing - 1,350'
- ⑥ See sht. FB16, note 4 Install orange plastic mesh fencing

LEGEND

- Inlet protection
- Check dam in ditch section
- Compost filter berm
- Flow direction
- Orange plastic fence (no work area)
- Wetland
- No work zone

Notes:
 1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 1 erosion and sediment controls BMPs to be installed prior to beginning construction activities.
 3. For tree removal and protection, see FC series.

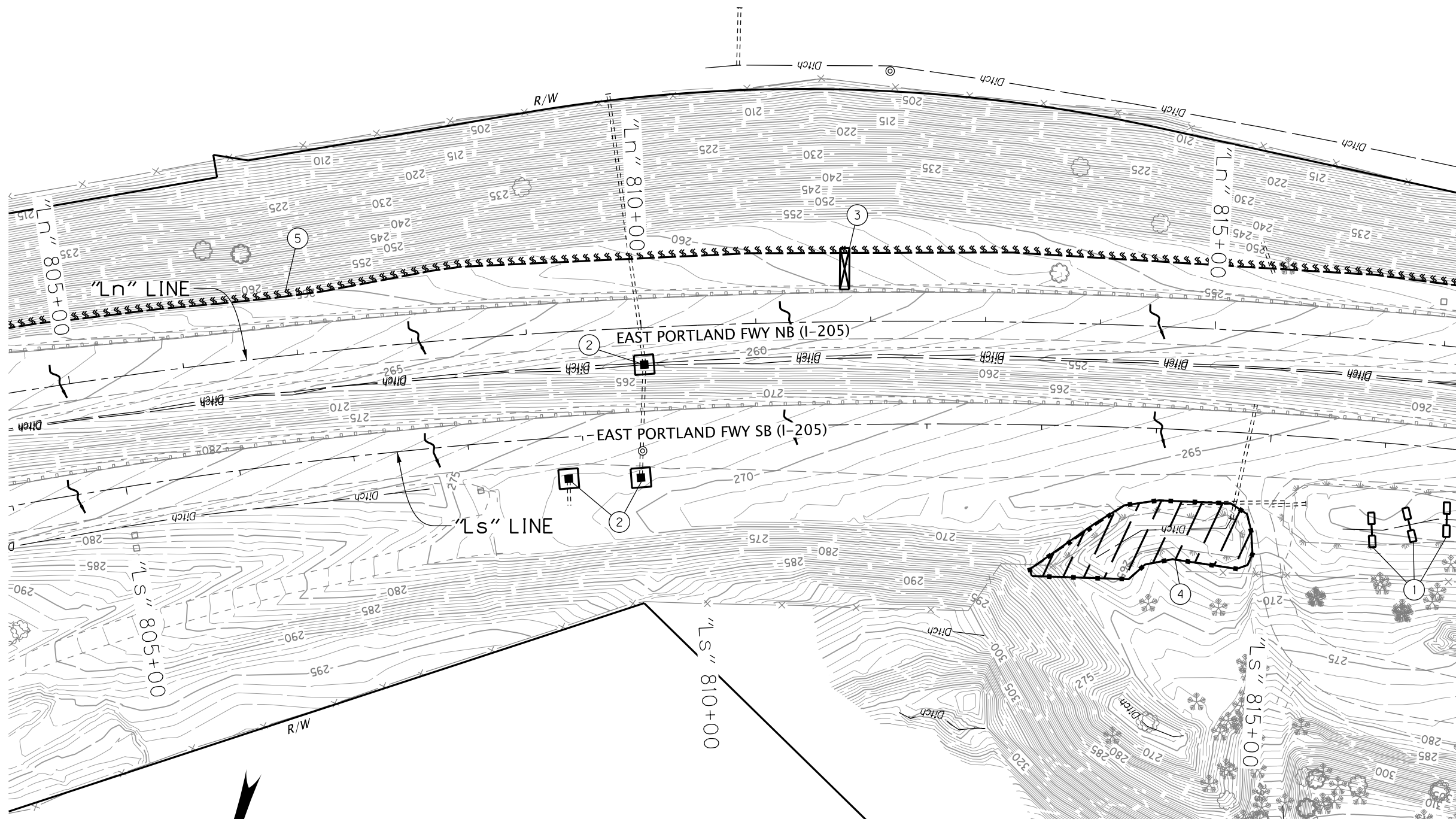


EXPIRES: DEC. 31, 2022

	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	

Designer: Jason Rahm	Reviewer: Matt Steigleder
Drafter: Connor Donovan	Checker: Brendan LeBlanc

EROSION AND SEDIMENT CONTROL	SHEET NO. FB17
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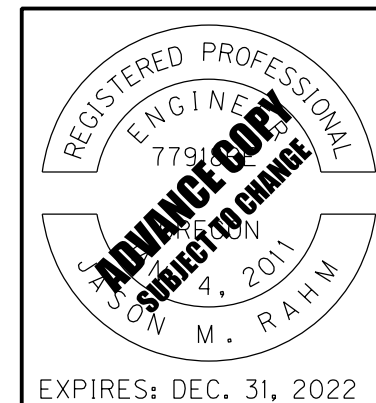


- ① Const. check dam, (Type 6) - 3
(See drg. no. RD1006)
- ② Const. inlet protection - 3
(Type 4)
(See drg. no. RD1015)
- ③ Const. temp. sediment trap
(See drg. no. RD1065)
- ④ Install orange plastic mesh fencing - 456'
- ⑤ See sht. FB17, note 4
Install sediment barrier
(Type 9, Compost filter berm)
(See drg. no. RD1033)

LEGEND

- Inlet protection
- Check dam in ditch section
- Compost filter berm
- Flow direction
- Orange plastic fence (no work area)
- Sediment trap
- Wetland
- Regulated Work Access
- No work zone

- Notes:
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 1 erosion and sediment controls BMPs to be installed prior to beginning construction activities.
 3. For tree removal and protection, see FC series.
 4. Size temporary sediment trap to match proposed water quality swale. See HA series for permanent feature size.

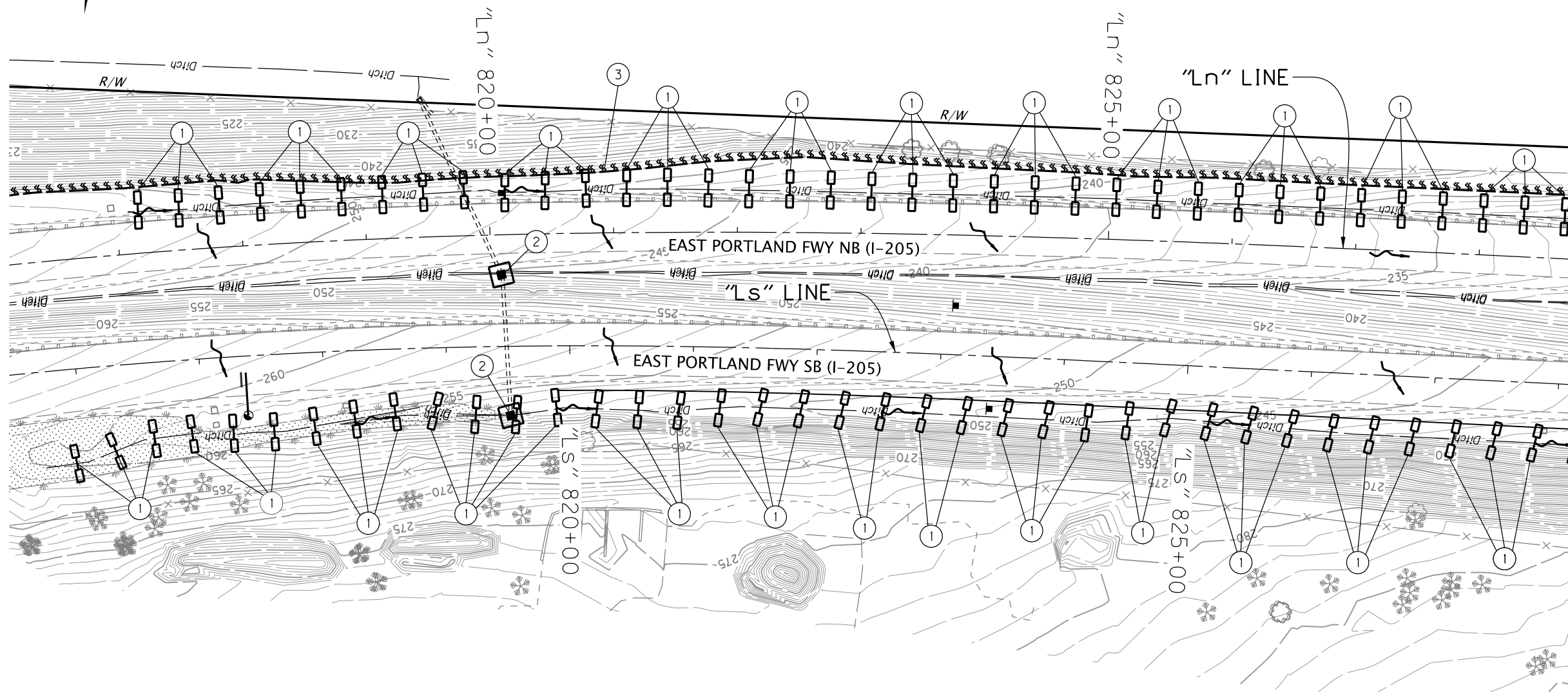


	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	

Designer: Jason Rahm	Reviewer: Matt Steigleder
Drafter: Connor Donovan	Checker: Brendan LeBlanc
EROSION AND SEDIMENT CONTROL	
SHEET NO. FB18	



- ① Const. check dam, (Type 6) - 73
(See drg. no. RD1006)
- ② Const. inlet protection - 2
(Type 4)
(See drg. no. RD1015)
- ③ See sht. FB17, note 4
Install sediment barrier
(Type 9, Compost filter berm)
(See drg. no. RD1033)



LEGEND

- Inlet protection
- Check dam in ditch section
- Compost filter berm
- Flow direction

Notes:
 1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 1 erosion and sediment controls BMPs to be installed prior to beginning construction activities.
 3. For tree removal and protection, see FC series.

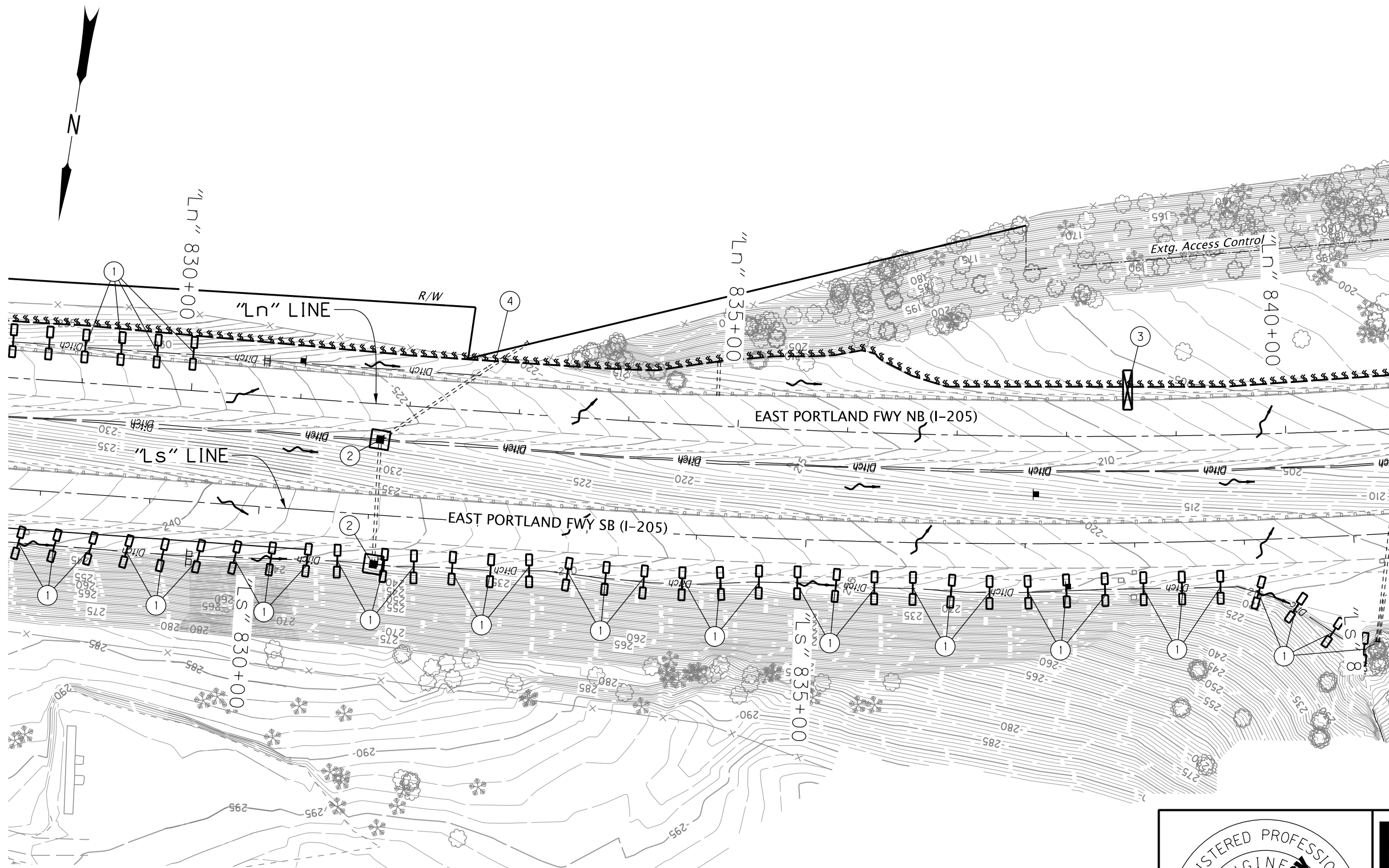
REGISTERED PROFESSIONAL
 ENGINEER
 7791
 JUNE 4, 2011
 M. RAHM

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EXPIRES: DEC. 31, 2022

HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	OREGON DEPARTMENT OF TRANSPORTATION
I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	
Designer: Jason Rahm Drafter: Connor Donovan	Reviewer: Matt Steigleder Checker: Brendan LeBlanc
EROSION AND SEDIMENT CONTROL	
SHEET NO. FB19	

- ① Const. check dam, (Type 6) - 41
(See drg. no. RD1006)
- ② Const. inlet protection - 2
(Type 4)
(See drg. no. RD1015)
- ③ Const. temp. sediment trap
(See drg. no. RD1065)
- ④ See sht. FB17, note 4
Install sediment barrier
(Type 9, Compost filter berm)
(See drg. no. RD1033)



LEGEND

- Inlet protection
- Check dam in ditch section
- Compost filter berm
- Sediment trap
- Flow direction

- Notes:**
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 1 erosion and sediment controls BMPs to be installed prior to beginning construction activities.
 3. Verify trees to be removed with Engineer prior to removal.
 4. Size temporary sediment trap to match proposed water quality swale. See HA series for permanent feature size.

REGISTERED PROFESSIONAL
ENGINEER
7791
JUN 4, 2011
M. RAHM

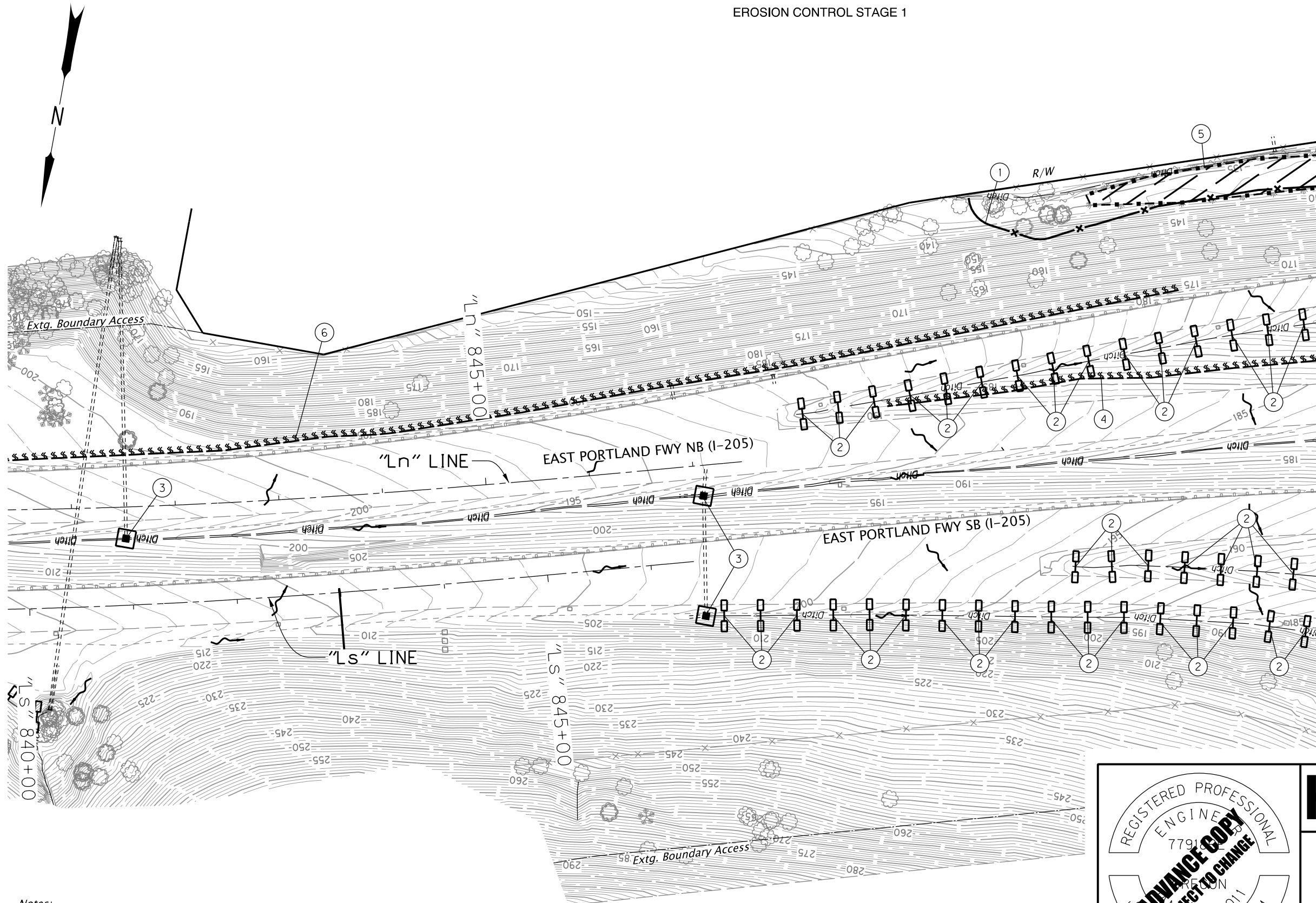
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EXPIRES: DEC. 31, 2022

HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	OREGON DEPARTMENT OF TRANSPORTATION
I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	
Designer: Jason Rahm Drafter: Connor Donovan	Reviewer: Matt Steigleder Checker: Brendan LeBlanc
EROSION AND SEDIMENT CONTROL	SHEET NO. FB20

Sec. 35, T. 2 S, R. 1 E, W.M.
S. WEST LINN INTERCHANGE
 EROSION CONTROL STAGE 1

??V-???



- ① Const. temp. CL-6 fence - 1,202'
- ② Const. check dam, (Type 6) - 39
(See drg. no. RD1006)
- ③ Const. inlet protection - 3
(Type 4)
(See drg. no. RD1015)
- ④ Install sediment barrier - 1,202'
(Type 9, Compost filter berm)
(See drg. no. RD1033)
- ⑤ Install orange plastic mesh fencing
- ⑥ See sht. FB17, note 4
Install sediment barrier
(Type 9, Compost filter berm)
(See drg. no. RD1033)

LEGEND

- Inlet protection
- Compost filter berm
- Check dam in ditch section
- Flow direction
- No work zone
- Wetland
- Ordinary High Water

- Notes:
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 1 erosion and sediment controls BMPs to be installed prior to beginning construction activities.
 3. Verify trees to be removed with Engineer prior to removal.



EXPIRES: DEC. 31, 2022

HDR	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	

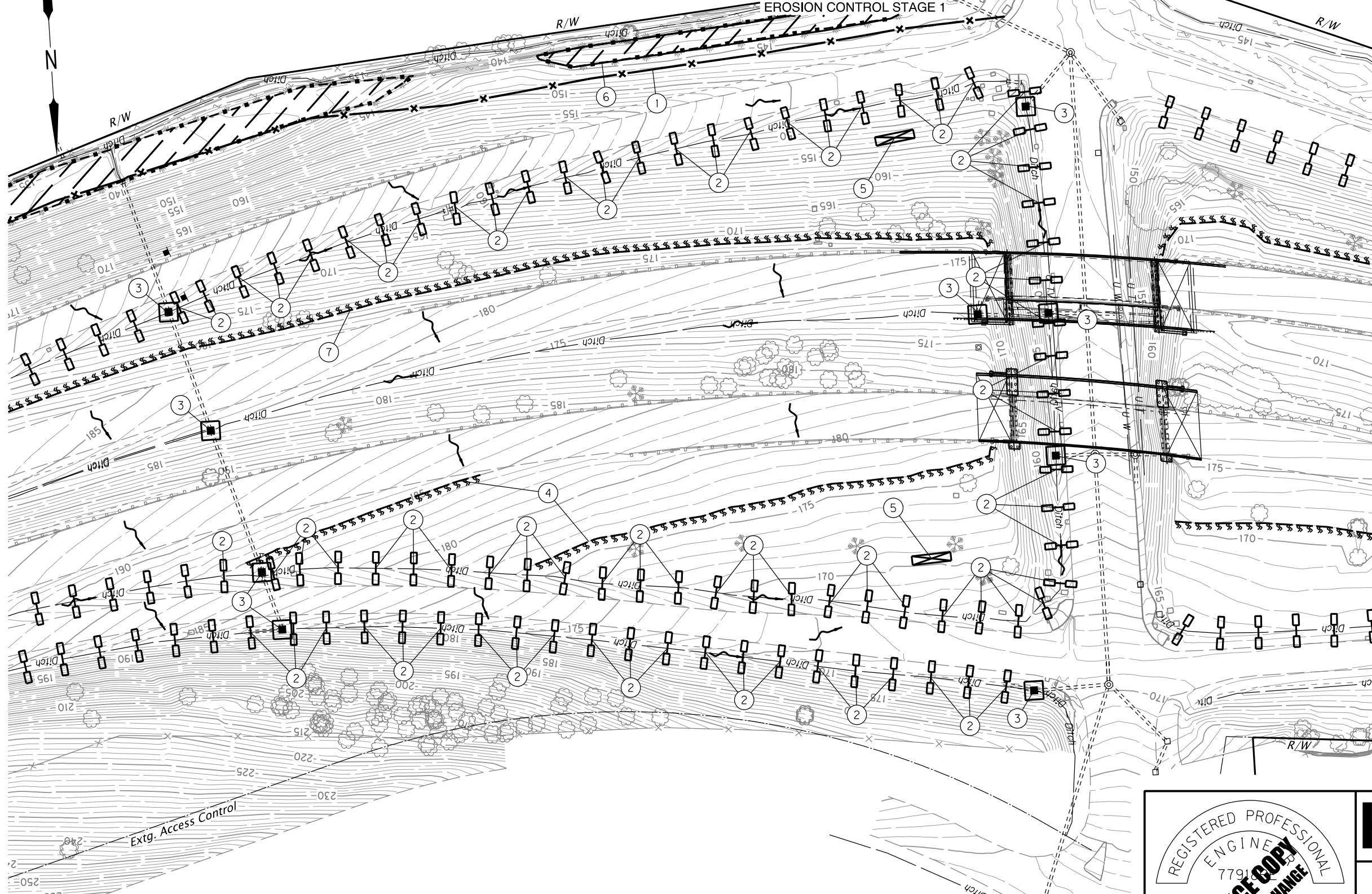
Designer: Jason Rahm	Reviewer: Matt Steigleder
Drafter: Connor Donovan	Checker: Brendan LeBlanc

EROSION AND SEDIMENT CONTROL	SHEET NO. FB21
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Sec. 35, T. 2 S, R. 1 E, W.M.
S. WEST LINN INTERCHANGE

??V-???

EROSION CONTROL STAGE 1

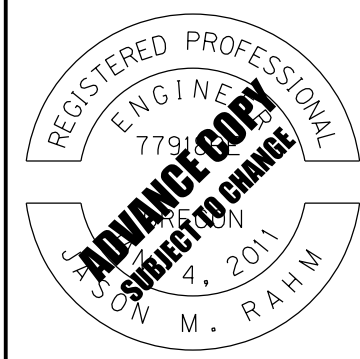


- ① Const. temp. CL-6 fence
- ② Const. check dam, (Type 6) - 81
(See drg. no. RD1006)
- ③ Const. inlet protection - 9
(Type 4)
(See drg. no. RD1015)
- ④ Install sediment barrier - 676'
(Type 9, Compost filter berm)
(See drg. no. RD1033)
- ⑤ Const. temp. sediment trap
(See drg. no. RD1065)
- ⑥ Install orange plastic mesh fencing - 750'
- ⑦ See sht. FB21, note 4
Install sediment barrier
(Type 9, Compost filter berm)
(See drg. no. RD1033)
- ⑧ See sht. FB21, note 5
Install orange plastic mesh fencing

LEGEND

- Inlet protection
- Compost filter berm
- Check dam in ditch section
- Sediment trap
- Flow direction
- Wetland
- Ordinary High Water
- No work zone

Notes:
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
2. Stage 1 erosion and sediment controls BMPs to be installed prior to beginning construction activities.
3. For tree removal and protection, see FC series.



HDR HDR ENGINEERING, INC
1050 SW 6TH AVENUE, SUITE 1800
PORTLAND, OR 97204-1134
503.423.3700

I-205: I-5 - OR213, PHASE 1 SEC.
EAST PORTLAND FREEWAY
CLACKAMAS COUNTY

Designer: Jason Rahm Reviewer: Matt Steigleder
Drafter: Connor Donovan Checker: Brendan LeBlanc

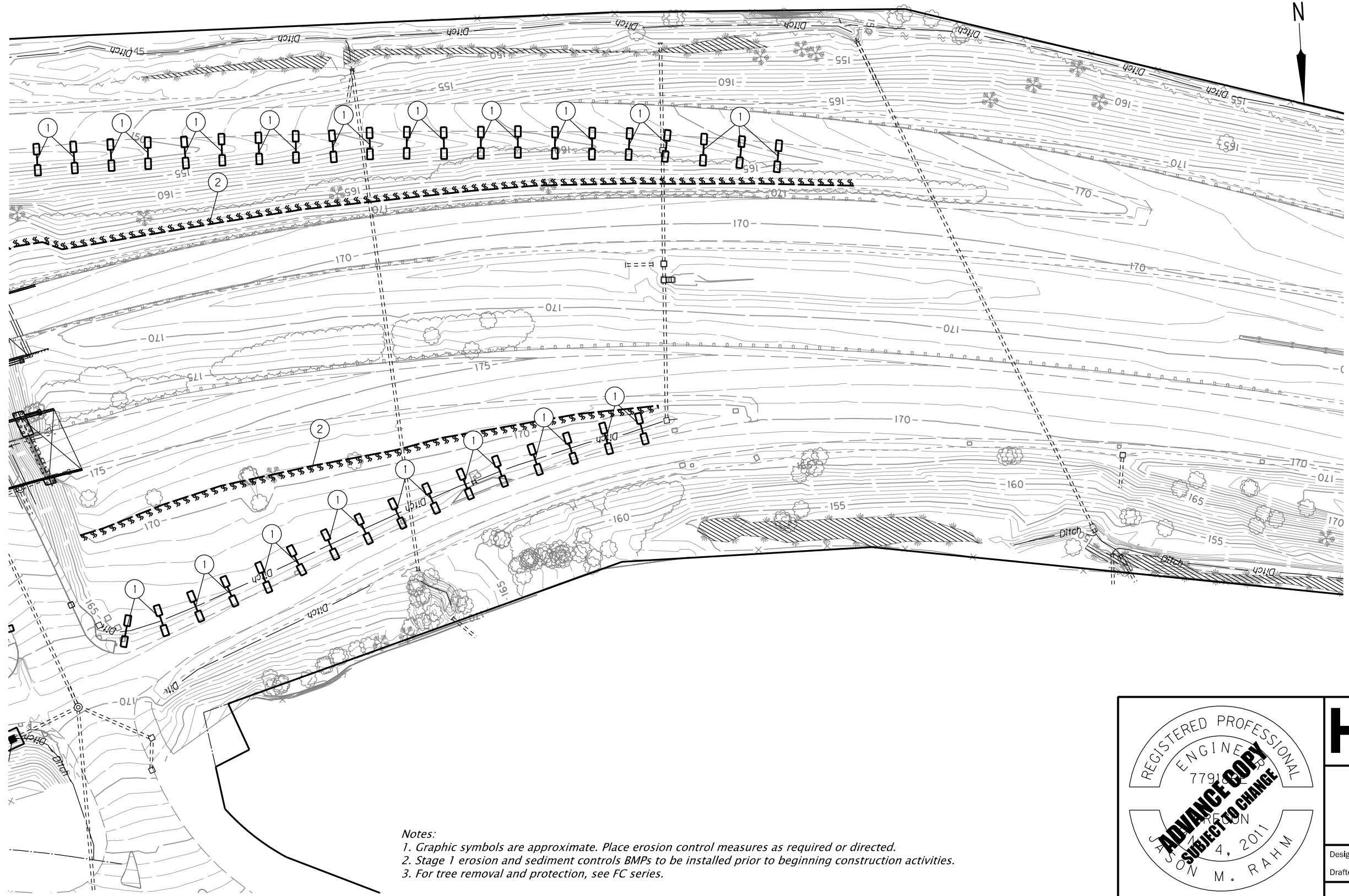
EROSION AND SEDIMENT CONTROL SHEET NO. FB22

Sec. 35, T. 2 S, R. 1 E, W.M.
 S. WEST LINN INTERCHANGE
 EROSION CONTROL STAGE 1






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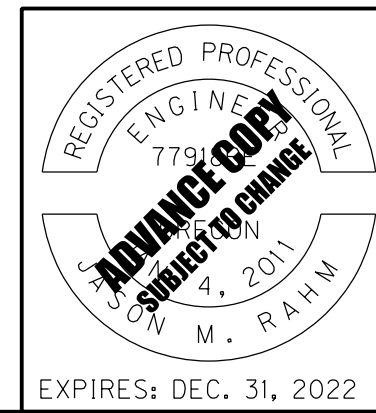
- ① Const. check dam, (Type 6) - 37
(See drg. no. RD1006)
- ② Install sediment barrier - 1435'
(Type 9, Compost filter berm)
(See drg. no. RD1033)



LEGEND

-  Inlet protection
-  Compost filter berm
-  Check dam in ditch section
-  Flow direction
-  No work zone

Notes:
 1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 1 erosion and sediment controls BMPs to be installed prior to beginning construction activities.
 3. For tree removal and protection, see FC series.

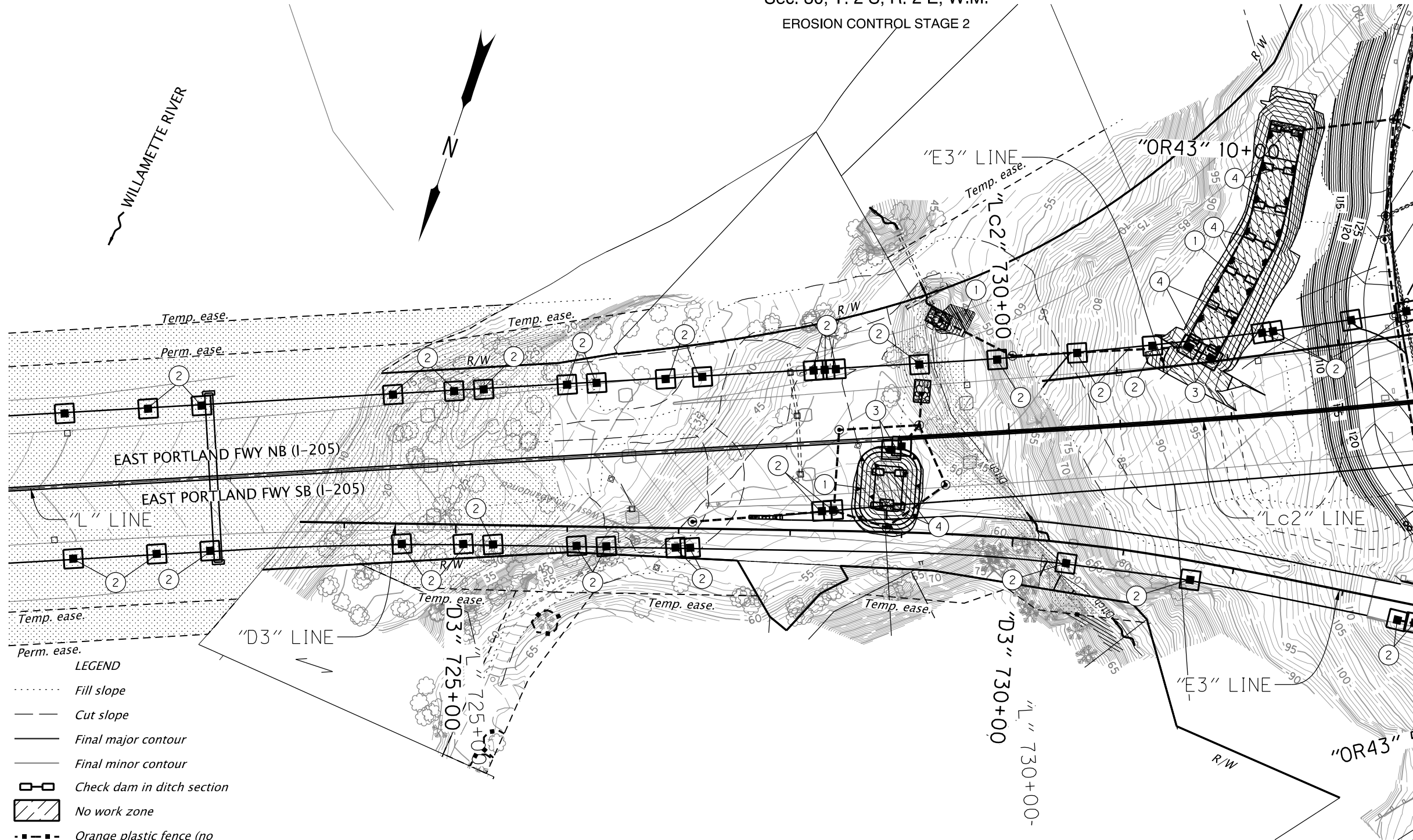


 HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	 OREGON DEPARTMENT OF TRANSPORTATION
Designer: Jason Rahm Drafter: Connor Donovan	Reviewer: Matt Steigleder Checker: Brendan LeBlanc
EROSION AND SEDIMENT CONTROL	
SHEET NO. FB23	

Sec. 30, T. 2 S, R. 2 E, W.M.

EROSION CONTROL STAGE 2

??V-???

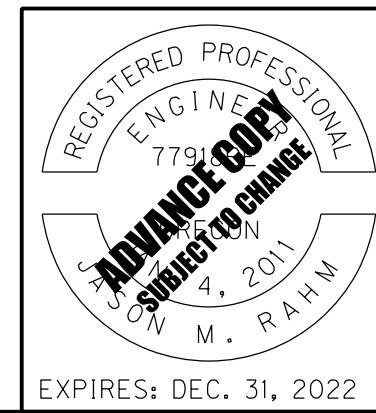


- ① Install matting- 2,415 sq. yd. (Type A)
- ② Const. inlet protection, (Type 3) - 36 (See drg. no. RD1010)
- ③ Const. inlet protection, (Type 4) - 4 (See drg. no. RD1015)
- ④ Const. check dam, (Type 6) - 9 (See drg. no. RD1006)

- LEGEND**
- Fill slope
 - Cut slope
 - Final major contour
 - Final minor contour
 - Check dam in ditch section
 - ▨ No work zone
 - · - · - Orange plastic fence (no work area, from Stage 1)
 - ▨ Matting, Type A
 - ~ - Ordinary High Water
 - Wetland
 - Compost blanket
 - Flow direction
 - Regulated Work Access
 - Inlet protection

Notes:

1. Graphic symbols are approximate. Place erosion control measures as required or directed.
2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
4. See LA sheet series for permanent planting and seeding.
5. See HA sheets for water quality features and seeding.
6. For tree removal and protection, see FC series.



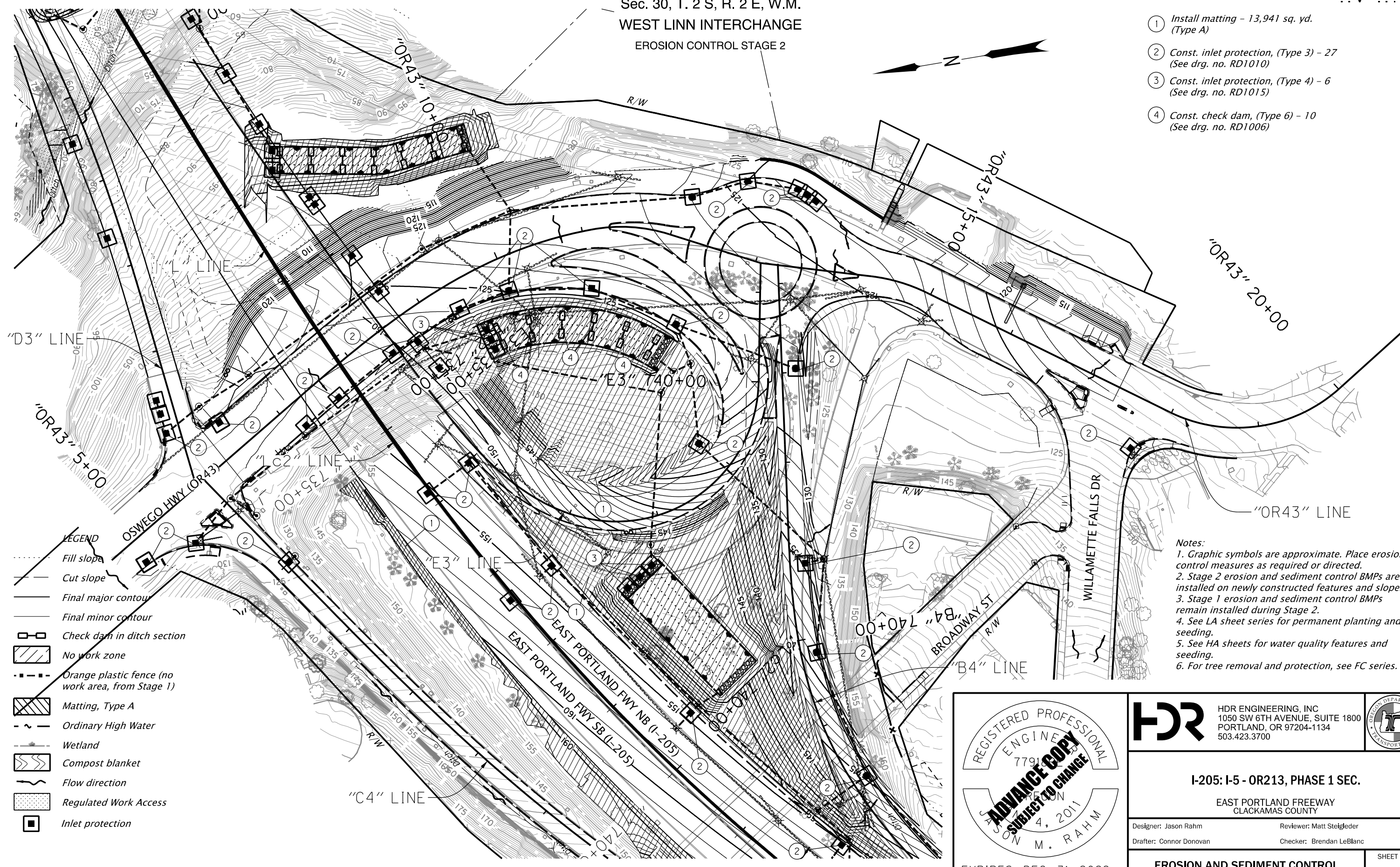
HDR	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC.	

EAST PORTLAND FREEWAY CLACKAMAS COUNTY	
Designer: Jason Rahm	Reviewer: Matt Steigleder
Drafter: Connor Donovan	Checker: Brendan LeBlanc
EROSION AND SEDIMENT CONTROL	SHEET NO. FB30

Sec. 30, T. 2 S, R. 2 E, W.M.
WEST LINN INTERCHANGE
 EROSION CONTROL STAGE 2

??V-???

- ① Install matting - 13,941 sq. yd. (Type A)
- ② Const. inlet protection, (Type 3) - 27 (See drg. no. RD1010)
- ③ Const. inlet protection, (Type 4) - 6 (See drg. no. RD1015)
- ④ Const. check dam, (Type 6) - 10 (See drg. no. RD1006)



- LEGEND**
- Fill slope
 - Cut slope
 - Final major contour
 - Final minor contour
 - Check dam in ditch section
 - ▨ No work zone
 - - - Orange plastic fence (no work area, from Stage 1)
 - ▨ Matting, Type A
 - ~ - Ordinary High Water
 - Wetland
 - Compost blanket
 - Flow direction
 - Regulated Work Access
 - Inlet protection

- Notes:**
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. For tree removal and protection, see FC series.



HDR HDR ENGINEERING, INC
 1050 SW 6TH AVENUE, SUITE 1800
 PORTLAND, OR 97204-1134
 503.423.3700



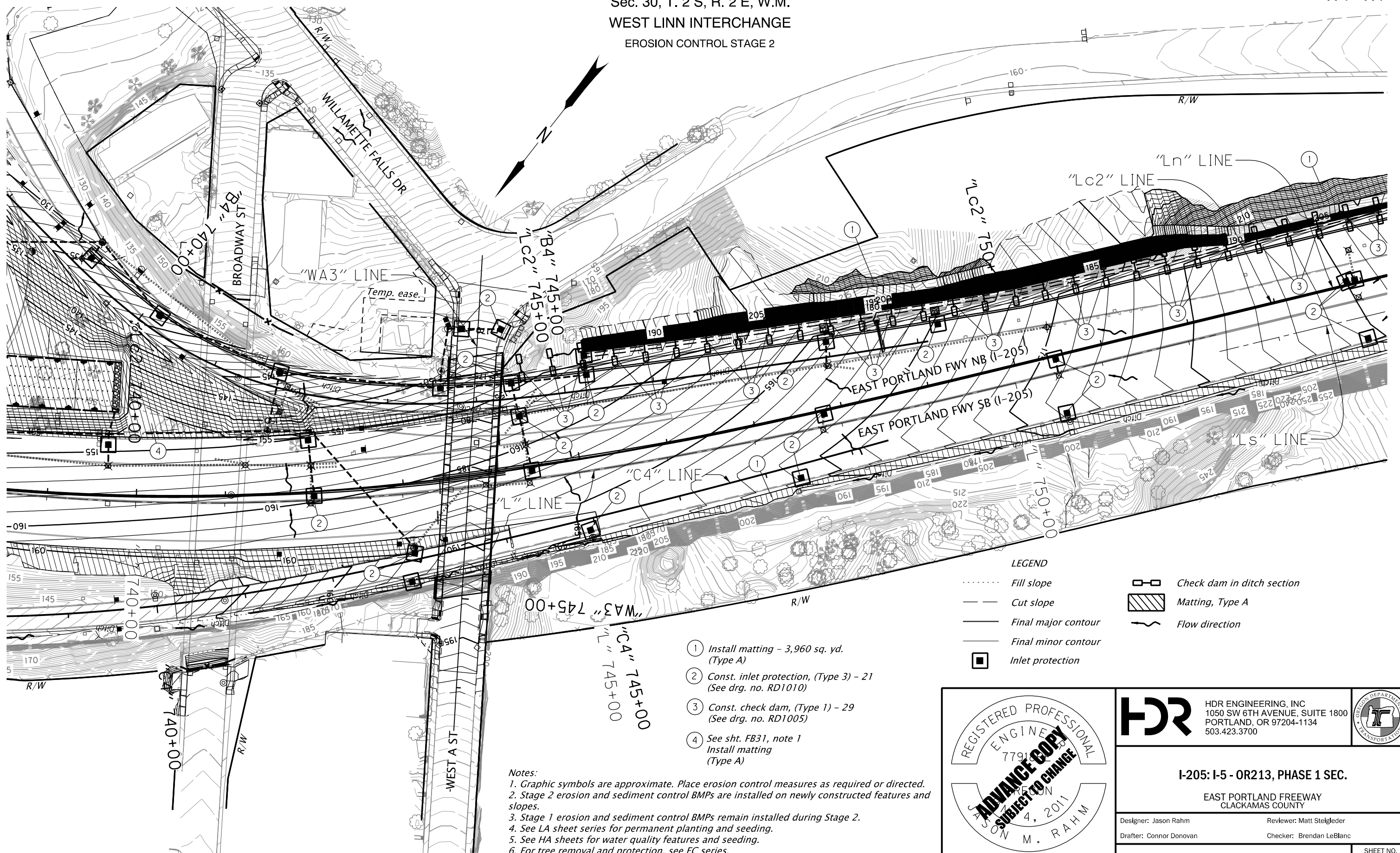
I-205: I-5 - OR213, PHASE 1 SEC.
 EAST PORTLAND FREEWAY
 CLACKAMAS COUNTY

Designer: Jason Rahm Reviewer: Matt Steigleder
 Drafter: Connor Donovan Checker: Brendan LeBlanc

EROSION AND SEDIMENT CONTROL SHEET NO. FB31

Sec. 30, T. 2 S, R. 2 E, W.M.
 WEST LINN INTERCHANGE
 EROSION CONTROL STAGE 2

??V-???

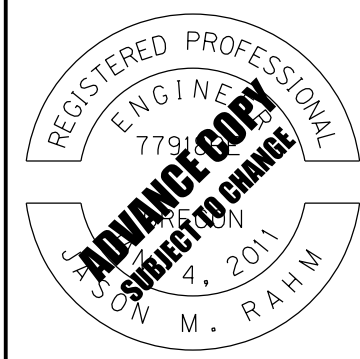


- LEGEND**
- Fill slope
 - Cut slope
 - Final major contour
 - Final minor contour
 - Inlet protection
 - Check dam in ditch section
 - ▨ Matting, Type A
 - ~ Flow direction

- ① Install matting - 3,960 sq. yd. (Type A)
- ② Const. inlet protection, (Type 3) - 21 (See drg. no. RD1010)
- ③ Const. check dam, (Type 1) - 29 (See drg. no. RD1005)
- ④ See sht. FB31, note 1 Install matting (Type A)

Notes:

1. Graphic symbols are approximate. Place erosion control measures as required or directed.
2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
4. See LA sheet series for permanent planting and seeding.
5. See HA sheets for water quality features and seeding.
6. For tree removal and protection, see FC series.



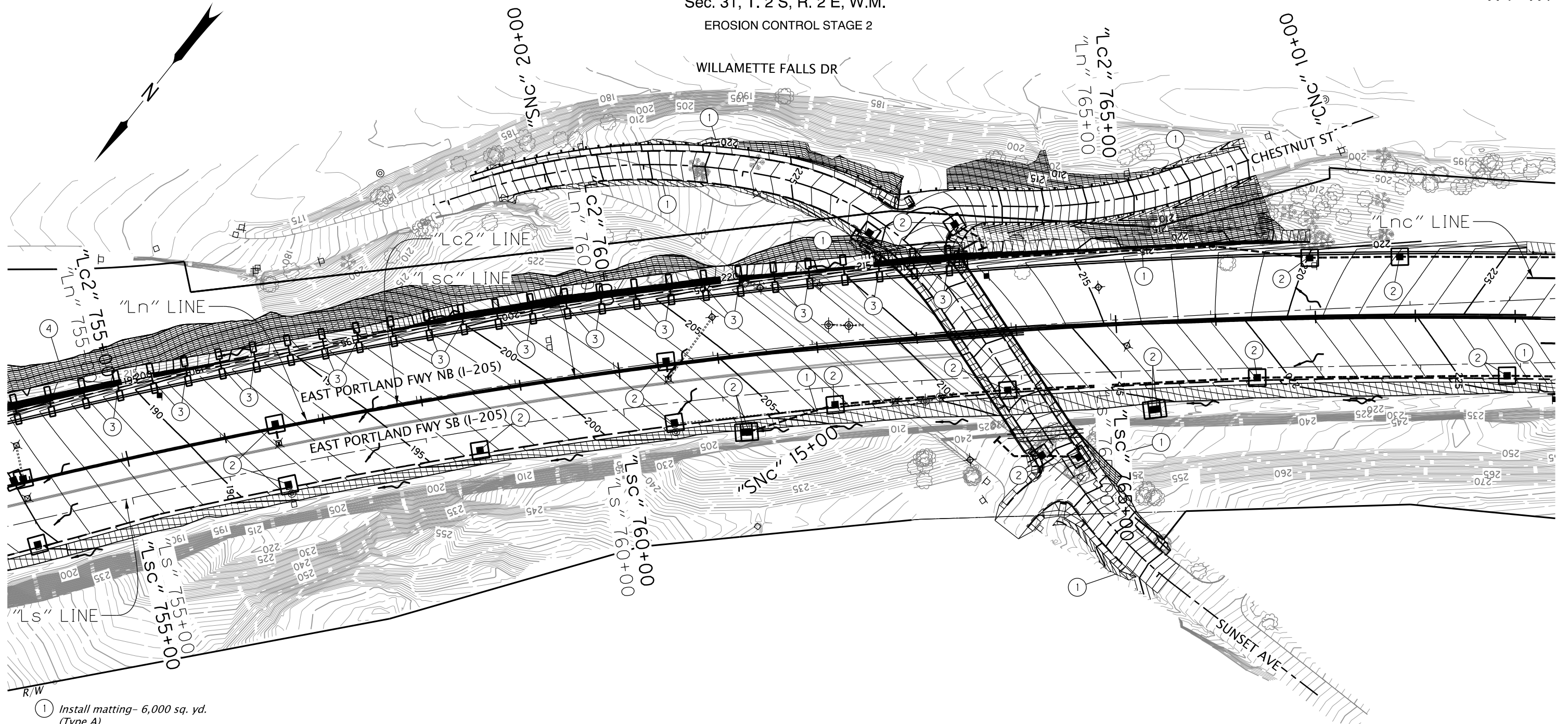
HDR	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	

Designer: Jason Rahm	Reviewer: Matt Steigleder
Drafter: Connor Donovan	Checker: Brendan LeBlanc
EROSION AND SEDIMENT CONTROL	
SHEET NO. FB32	

Sec. 31, T. 2 S, R. 2 E, W.M.

EROSION CONTROL STAGE 2

??V-???



- ① Install matting - 6,000 sq. yd. (Type A)
- ② Const. inlet protection, (Type 3) - 17 (See drg. no. RD1010)
- ③ Const. check dam, (Type 6) - 26 (See drg. no. RD1006)
- ④ See sht. FB32, note 1
Install matting (Type A)

Notes:

1. Graphic symbols are approximate. Place erosion control measures as required or directed.
2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
4. See LA sheet series for permanent planting and seeding.
5. See HA sheets for water quality features and seeding.
6. For tree removal and protection, see FC series.

LEGEND

- Fill slope
- Cut slope
- Final major contour
- Final minor contour
- Check dam in ditch section
- ~ Flow direction
- ▨ Matting, Type A



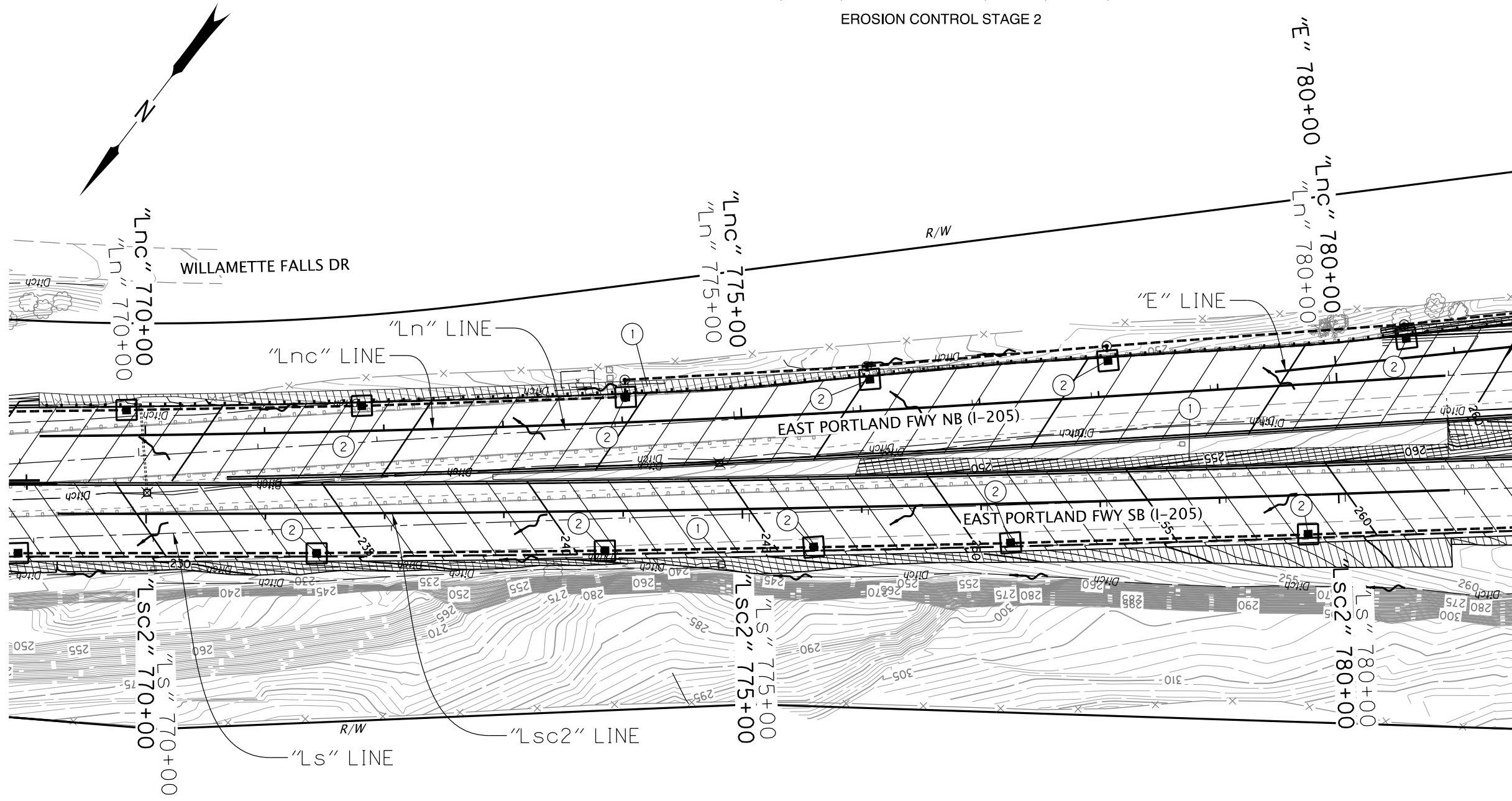
EXPIRES: DEC. 31, 2022

HDR	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	

Designer: Jason Rahm	Reviewer: Matt Steigleder
Drafter: Connor Donovan	Checker: Brendan LeBlanc

EROSION AND SEDIMENT CONTROL	SHEET NO. FB33
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EROSION CONTROL STAGE 2

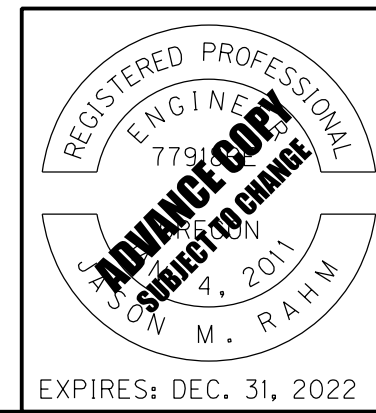


- ① Install matting - 2,915 sq. yd. (Type A)
- ② Const. inlet protection, (Type 3) - 10 (See drg. no. RD1010)

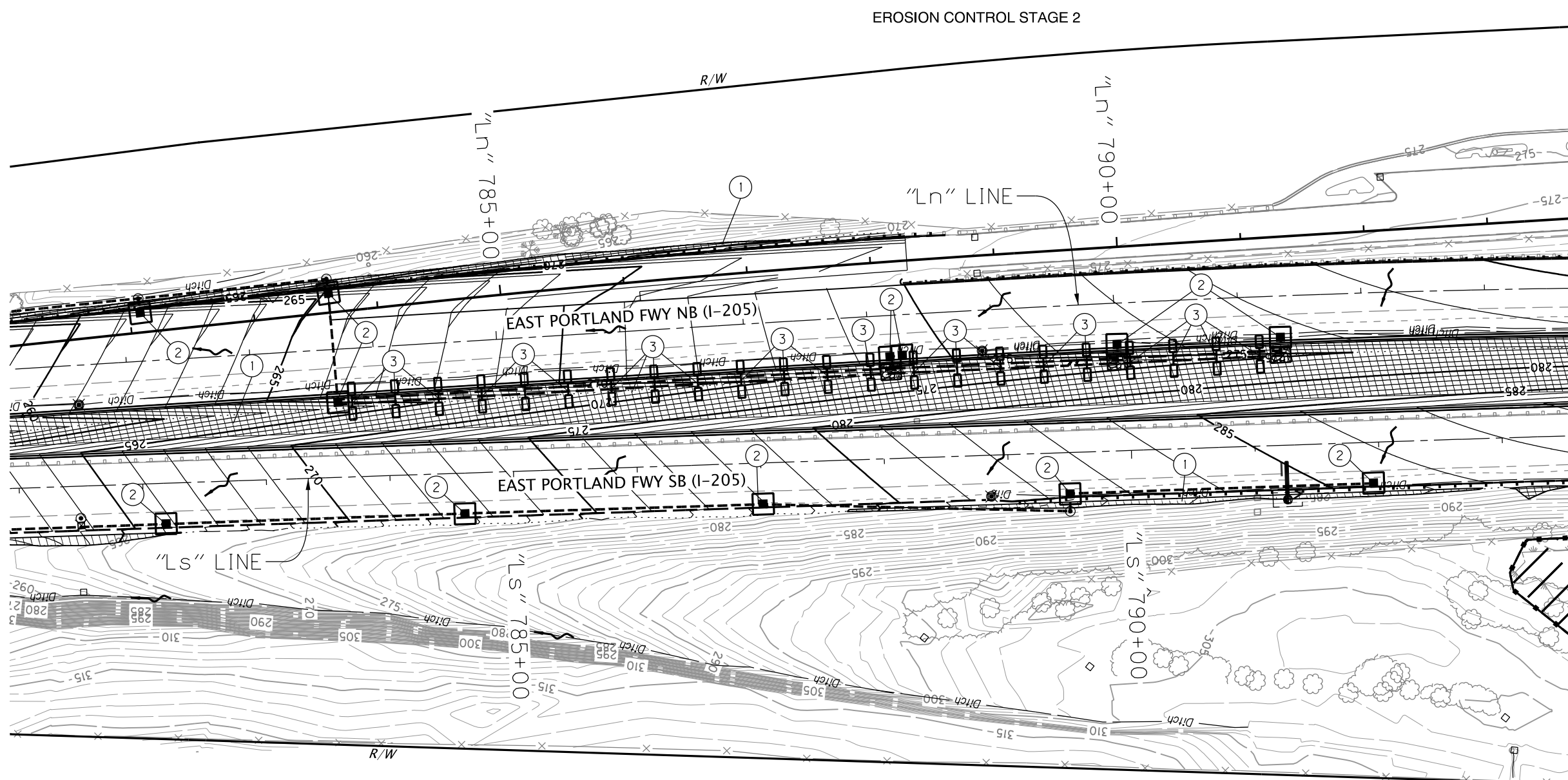
Notes:
 1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. See FC sheets for tree removal. Verify trees to be removed with Engineer prior to removal.

LEGEND

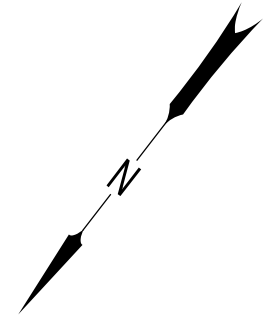
	Fill slope
	Cut slope
	Final major contour
	Final minor contour
	Check dam in ditch section
	Flow direction
	Matting, Type A
	Inlet protection



HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	OREGON DEPARTMENT OF TRANSPORTATION
Designer: Jason Rahm Drafter: Connor Donovan	Reviewer: Matt Steigleder Checker: Brendan LeBlanc
EROSION AND SEDIMENT CONTROL	
SHEET NO. FB34	



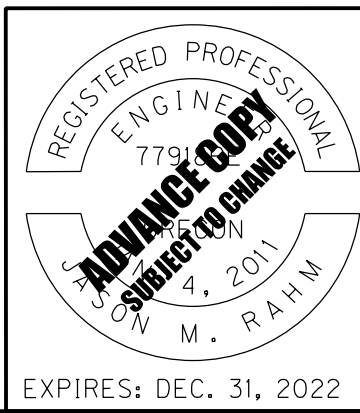
- ① Install matting - 15,737 sq. yd. (Type A)
- ② Const. inlet protection - 11 (Type 4) (See drg. no. RD1015)
- ③ Const. check dam, (Type 6) - 22 (See drg. no. RD1006)



LEGEND

- Fill slope
- Cut slope
- Final major contour
- Final minor contour
- [Hatched Box] No work zone
- [Check Dam Symbol] Check dam in ditch section
- [Dashed Line] Orange plastic fence (no work area, from Stage 1)
- [Wavy Line] Flow direction
- [Square Symbol] Inlet protection
- [Hatched Box] Matting, Type A

Notes:
 1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. For tree removal and protection, see FC series.



	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	

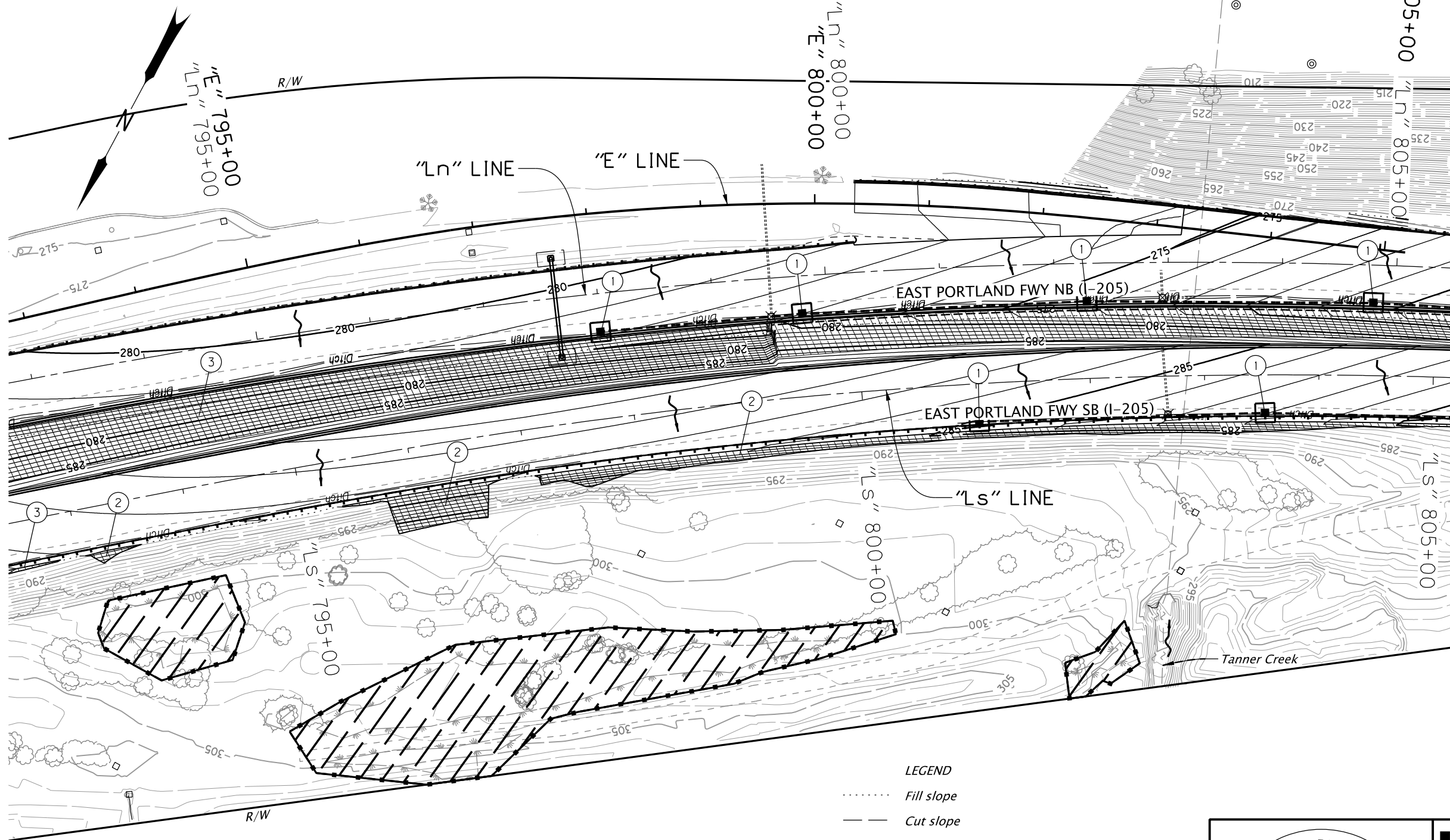
Designer: Jason Rahm	Reviewer: Matt Steigleder
Drafter: Connor Donovan	Checker: Brendan LeBlanc

EROSION AND SEDIMENT CONTROL	SHEET NO. FB35
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Sec. 36, T. 2 S, R. 1 E, W.M.

EROSION CONTROL STAGE 2

??V-???



- ① Const. inlet protection, (Type 4) - 5
(See drg. no. RD1015)
- ② Install matting - 4,268 sq. yd.
(Type A)
- ③ See sht. FB35, note 1
Install matting
(Type A)

LEGEND

- Fill slope
- Cut slope
- Final major contour
- Final minor contour
- ▨ No work zone
- · - · - Orange plastic fence (no work area, from Stage 1)
- ~ Flow direction
- Inlet protection
- ▨ Matting, Type A

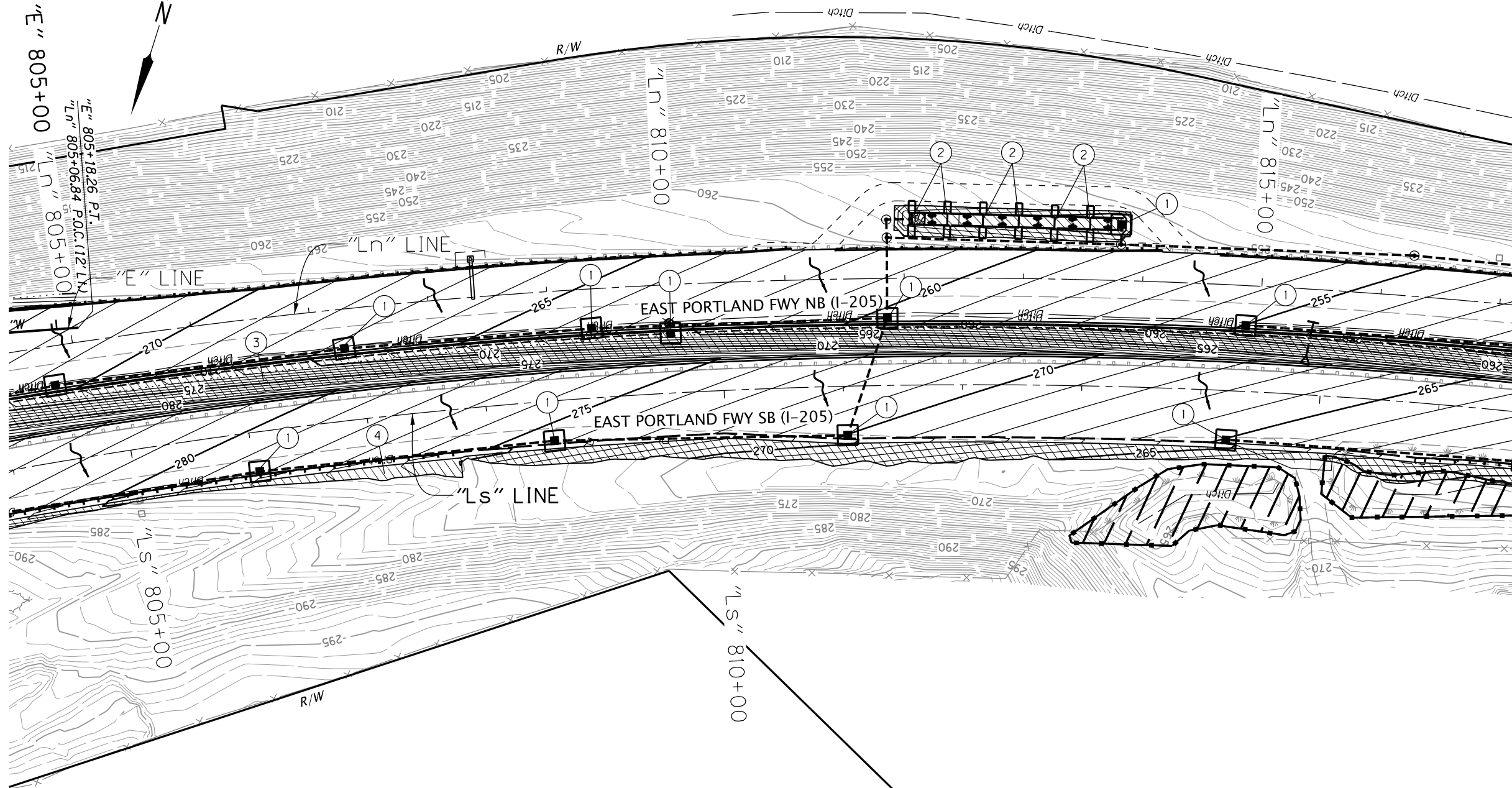
- Notes:
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. For tree removal and protection, see FC series.



HDR	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC.	

EAST PORTLAND FREEWAY CLACKAMAS COUNTY	
Designer: Jason Rahm	Reviewer: Matt Steigleder
Drafter: Connor Donovan	Checker: Brendan LeBlanc

EROSION AND SEDIMENT CONTROL	SHEET NO. FB36
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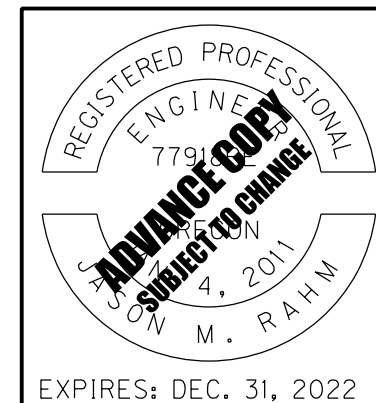


- ① Const. inlet protection - 10 (Type 4) (See drg. no. RD1015)
- ② Const. check dam, (Type 6) - 6 (See drg. no. RD1006)
- ③ See sht. FB35, note 1 Install matting (Type A)
- ④ See sht. FB36, note 2 Install matting (Type A)

LEGEND

- Fill slope
- Cut slope
- Final major contour
- Final minor contour
- [Hatched Box] No work zone
- [Check Dam Symbol] Check dam in ditch section
- [Slope Drain Symbol] Temporary slope drain with energy dissipator
- [Dashed Line] Wetland
- [Wavy Arrow] Flow direction
- [Diagonal Hatched Box] Matting, Type A
- [Dashed Line] Orange plastic fence (no work area)
- [Square with X] Inlet protection
- [Dotted Box] Regulated Work Access

- Notes:
- 1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 - 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 - 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 - 4. See LA sheet series for permanent planting and seeding.
 - 5. See HA sheets for water quality features and seeding.
 - 6. For tree removal and protection, see FC series.

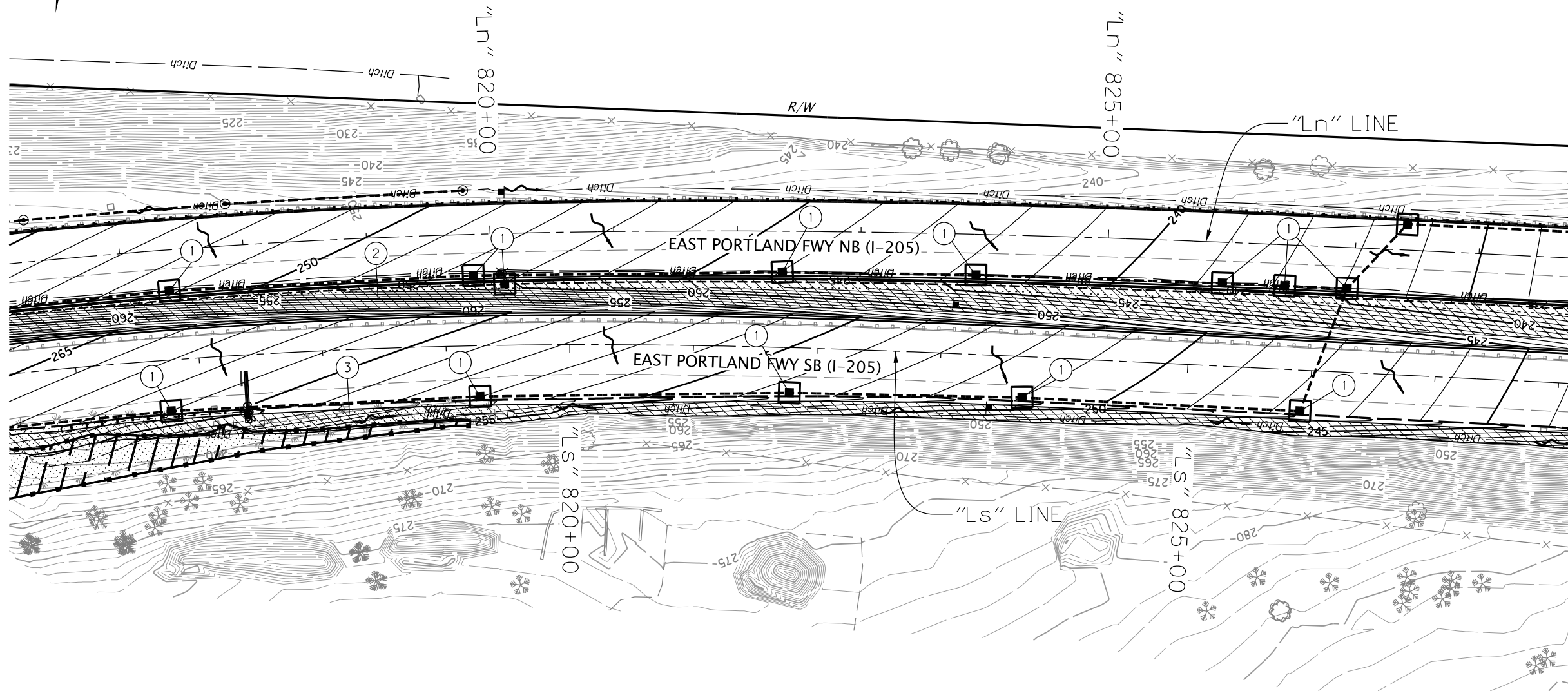


EXPIRES: DEC. 31, 2022

	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	

Designer: Jason Rahm	Reviewer: Matt Steigleder
Drafter: Connor Donovan	Checker: Brendan LeBlanc

EROSION AND SEDIMENT CONTROL	SHEET NO. FB37
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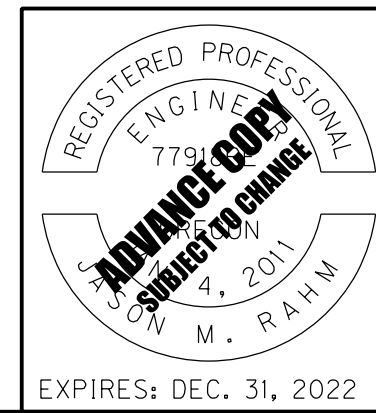


- ① Const. inlet protection - 12 (Type 3) (See drg. no. RD1010)
- ② See sht. FB35, note 1 Install matting (Type A)
- ③ See sht. FB36, note 2 Install matting (Type A)

LEGEND

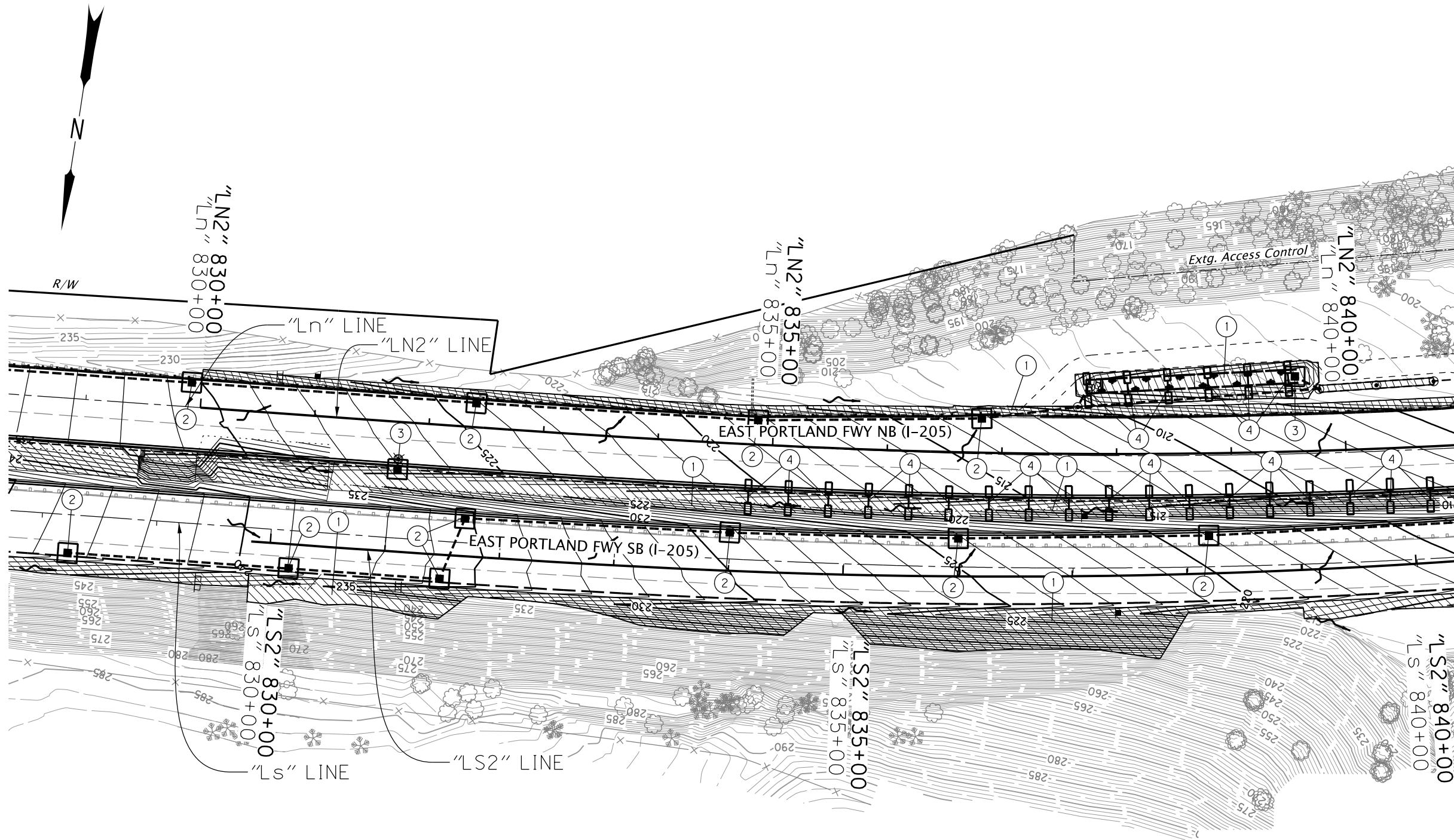
- Fill slope
- Cut slope
- Final major contour
- Final minor contour
- [Hatched Box] No work zone
- [Dotted Box] Wetland
- ~ Flow direction
- - - - Orange plastic fence (no work area)
- [Square with '1'] Inlet protection
- [Dotted Box] Regulated Work Access
- [Hatched Box] Matting, Type A

- Notes:
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. For tree removal and protection, see FC series.



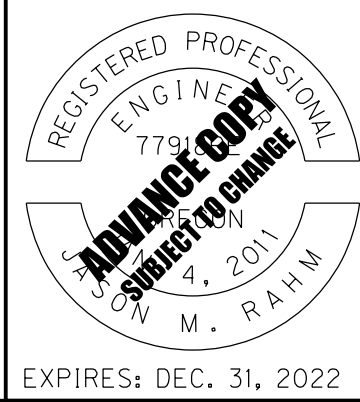
	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	
Designer: Jason Rahm Drafter: Connor Donovan	Reviewer: Matt Steigleder Checker: Brendan LeBlanc	SHEET NO. FB38
EROSION AND SEDIMENT CONTROL		SHEET NO. FB38

- ① Install matting- 16,612 sq. yd.
(Type A)
- ② Const. inlet protection - 11
(Type 3)
(See drg. no. RD1010)
- ③ Const. inlet protection - 2
(Type 4)
(See drg. no. RD1015)
- ④ Const. check dam, (Type 6) - 24
(See drg. no. RD1006)



- LEGEND**
- Fill slope
 - Cut slope
 - Final major contour
 - Final minor contour
 - ▨ No work zone
 - Check dam in ditch section
 - Flow direction
 - ▨ Matting, Type A
 - Inlet protection

- Notes:**
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. For tree removal and protection, see FC series.



HDR HDR ENGINEERING, INC
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503.423.3700

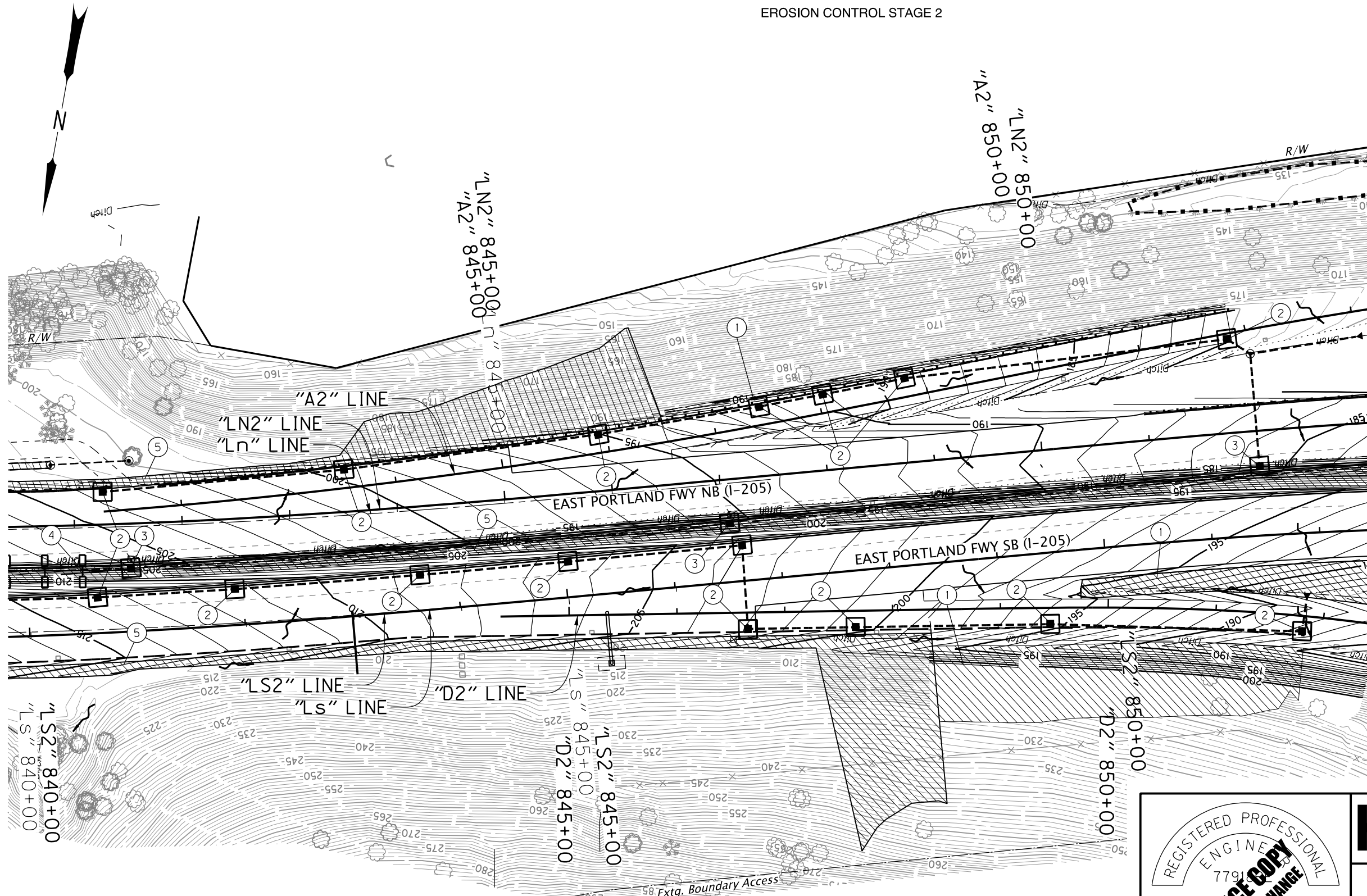
I-205: I-5 - OR213, PHASE 1 SEC.
EAST PORTLAND FREEWAY
CLACKAMAS COUNTY

Designer: Jason Rahm Reviewer: Matt Steigleder
Drafter: Connor Donovan Checker: Brendan LeBlanc

EROSION AND SEDIMENT CONTROL SHEET NO. FB39

Sec. 35, T. 2 S, R. 1 E, W.M.
 S. WEST LINN INTERCHANGE
 EROSION CONTROL STAGE 2

??V-???



- ① Install matting- 12,500 sq. yd. (Type A)
- ② Const. inlet protection - 16 (Type 3) (See drg. no. RD1010)
- ③ Const. inlet protection - 3 (Type 4) (See drg. no. RD1015)
- ④ Const. check dam, (Type 6) - 1 (See drg. no. RD1006)
- ⑤ See sht. FB39, note 1 Install matting (Type A)

LEGEND

- Fill slope
- Cut slope
- Final major contour
- Final minor contour
- [Hatched Box] No work zone
- [Dotted Box] Wetland
- - - Ordinary High Water
- ~ Flow direction
- [Hatched Box] Matting, Type A
- - - Orange plastic fence (no work area, from Stage 1)
- [Square] Inlet protection

- Notes:**
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. For tree removal and protection, see FC series.

REGISTERED PROFESSIONAL
 ENGINEER
 7791
 JUNE 4, 2011
 M. RAHM
ADVANCE COPY
 SUBJECT TO CHANGE

EXPIRES: DEC. 31, 2022

HDR HDR ENGINEERING, INC
 1050 SW 6TH AVENUE, SUITE 1800
 PORTLAND, OR 97204-1134
 503.423.3700

OREGON DEPARTMENT OF TRANSPORTATION

I-205: I-5 - OR213, PHASE 1 SEC.

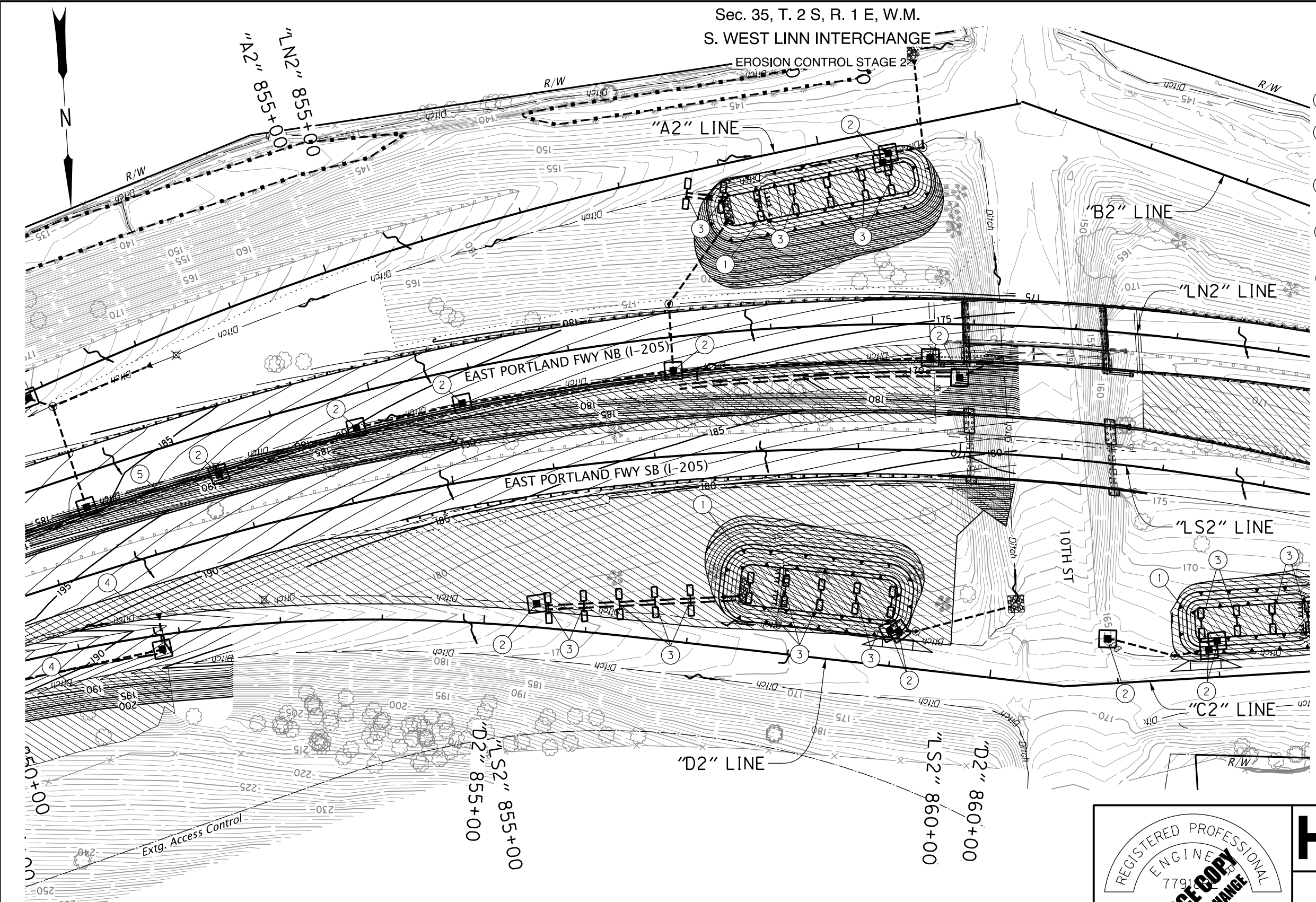
EAST PORTLAND FREEWAY
 CLACKAMAS COUNTY

Designer: Jason Rahm Reviewer: Matt Steigleder
 Drafter: Connor Donovan Checker: Brendan LeBlanc

EROSION AND SEDIMENT CONTROL SHEET NO. FB40

Sec. 35, T. 2 S, R. 1 E, W.M.
S. WEST LINN INTERCHANGE

??V-???



- ① Install matting - 6,457 sq. yd. (Type A)
- ② Const. inlet protection - 12 (Type 4) (See drg. no. RD1015)
- ③ Const. check dam, (Type 6) - 19 (See drg. no. RD1006)
- ④ See sht. FB40, note 1 Install matting (Type A)
- ⑤ See sht. FB39, note 1 Install matting (Type A)

LEGEND

- Fill slope
- Cut slope
- Final major contour
- Final minor contour
- No work zone
- Check dam in ditch section
- Wetland
- Ordinary High Water
- Flow direction
- Matting, Type A
- Orange plastic fence (no work area, from Stage 1)
- Inlet protection

- Notes:
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. For tree removal and protection, see FC series.



EXPIRES: DEC. 31, 2022

	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	

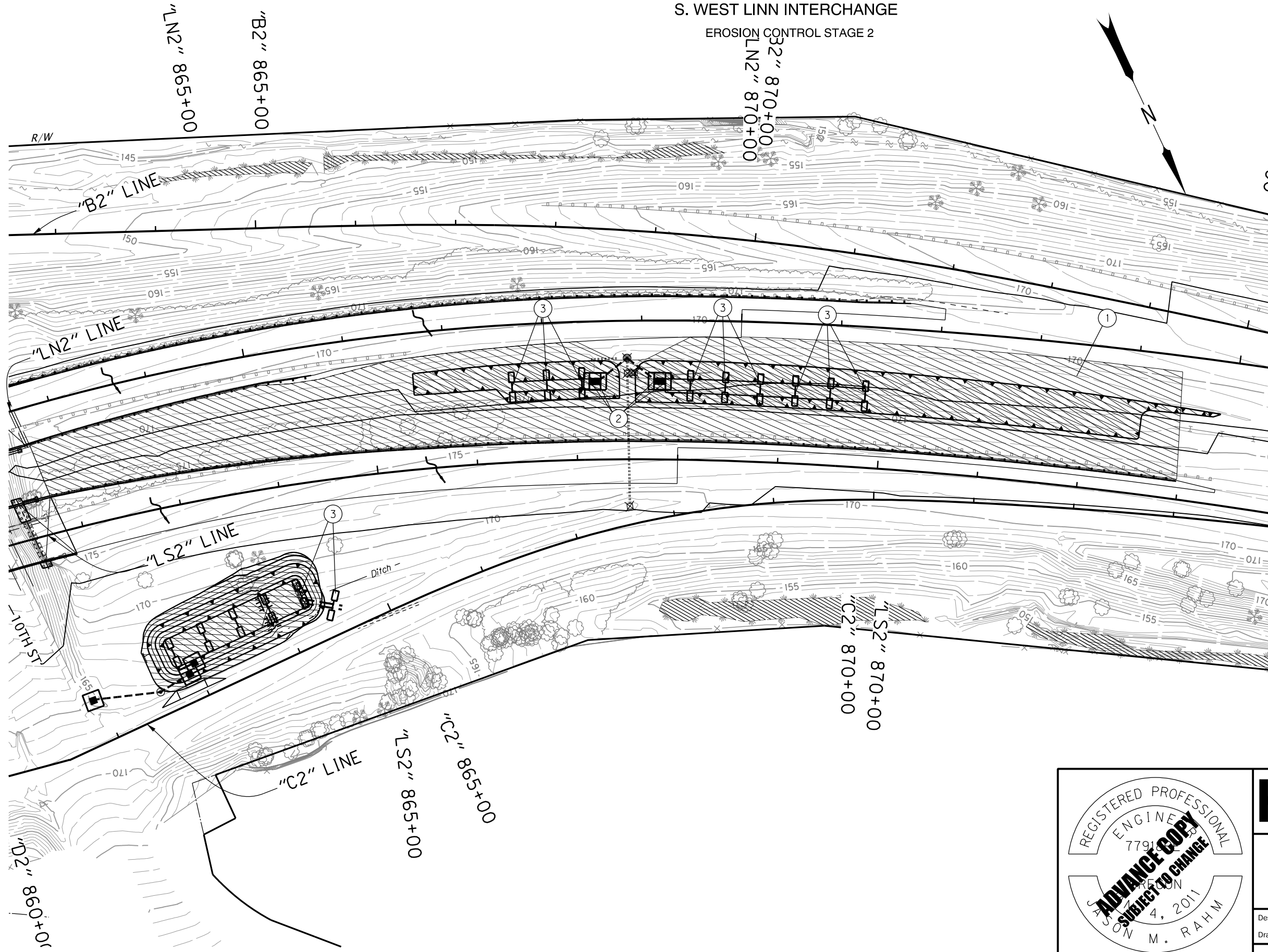
Designer: Jason Rahm	Reviewer: Matt Steigleder
Drafter: Connor Donovan	Checker: Brendan LeBlanc

EROSION AND SEDIMENT CONTROL	SHEET NO. FB41
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Sec. 35, T. 2 S, R. 1 E, W.M.
S. WEST LINN INTERCHANGE

??V-???

EROSION CONTROL STAGE 2



- ① Install matting - 13,138 sq. yd. (Type A)
- ② Const. inlet protection - 4 (Type 4) (See drg. no. RD1015)
- ③ Const. check dam, (Type 6) - 11 (See drg. no. RD1006)

LEGEND

- Fill slope
- Cut slope
- Final major contour
- Final minor contour
- No work zone
- Check dam in ditch section
- Wetland
- Ordinary High Water
- Flow direction
- Matting, Type A
- Inlet protection



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	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	

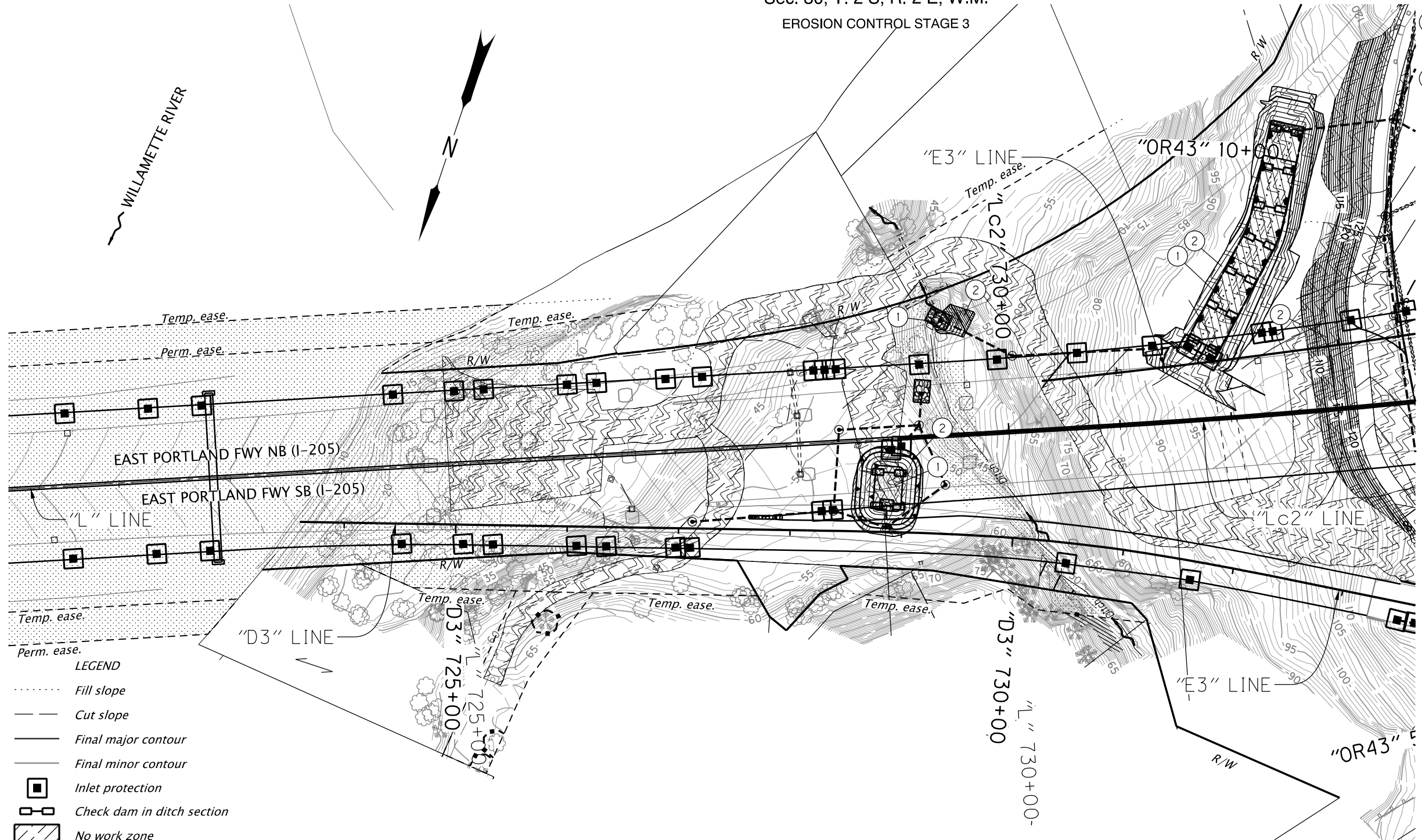
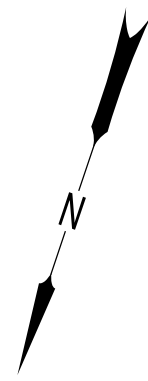
Designer: Jason Rahm Drafter: Connor Donovan	Reviewer: Matt Steigleder Checker: Brendan LeBlanc
EROSION AND SEDIMENT CONTROL	
SHEET NO. FB42	

Sec. 30, T. 2 S, R. 2 E, W.M.

EROSION CONTROL STAGE 3

??V-???

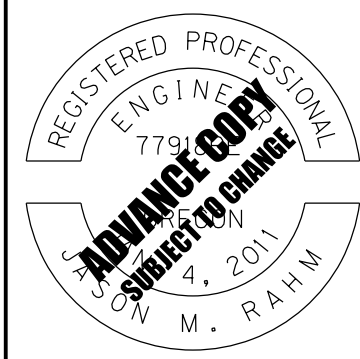
WILLAMETTE RIVER



- ① Install matting - 881 sq. yd. (Flexible channel liner, Type F) (See drg. no. RD1055)
- ② Install compost erosion blanket - 12,395 sq. yd. (For details, see sht. FB01)

- LEGEND
- Fill slope
 - Cut slope
 - Final major contour
 - Final minor contour
 - Inlet protection
 - Check dam in ditch section
 - ▨ No work zone
 - - - Orange plastic fence (no work area, from Stage 1)
 - ▨ Matting, Type F
 - ~ - Ordinary High Water
 - Wetland
 - Compost blanket
 - Flow direction
 - Regulated Work Access

- Notes:
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. For tree removal and protection, see FC series.
 7. See stage 2 for inlet protection callouts for new inlets.
 8. See stage 2 for check dam callouts.



EXPIRES: DEC. 31, 2022

HDR HDR ENGINEERING, INC
1050 SW 6TH AVENUE, SUITE 1800
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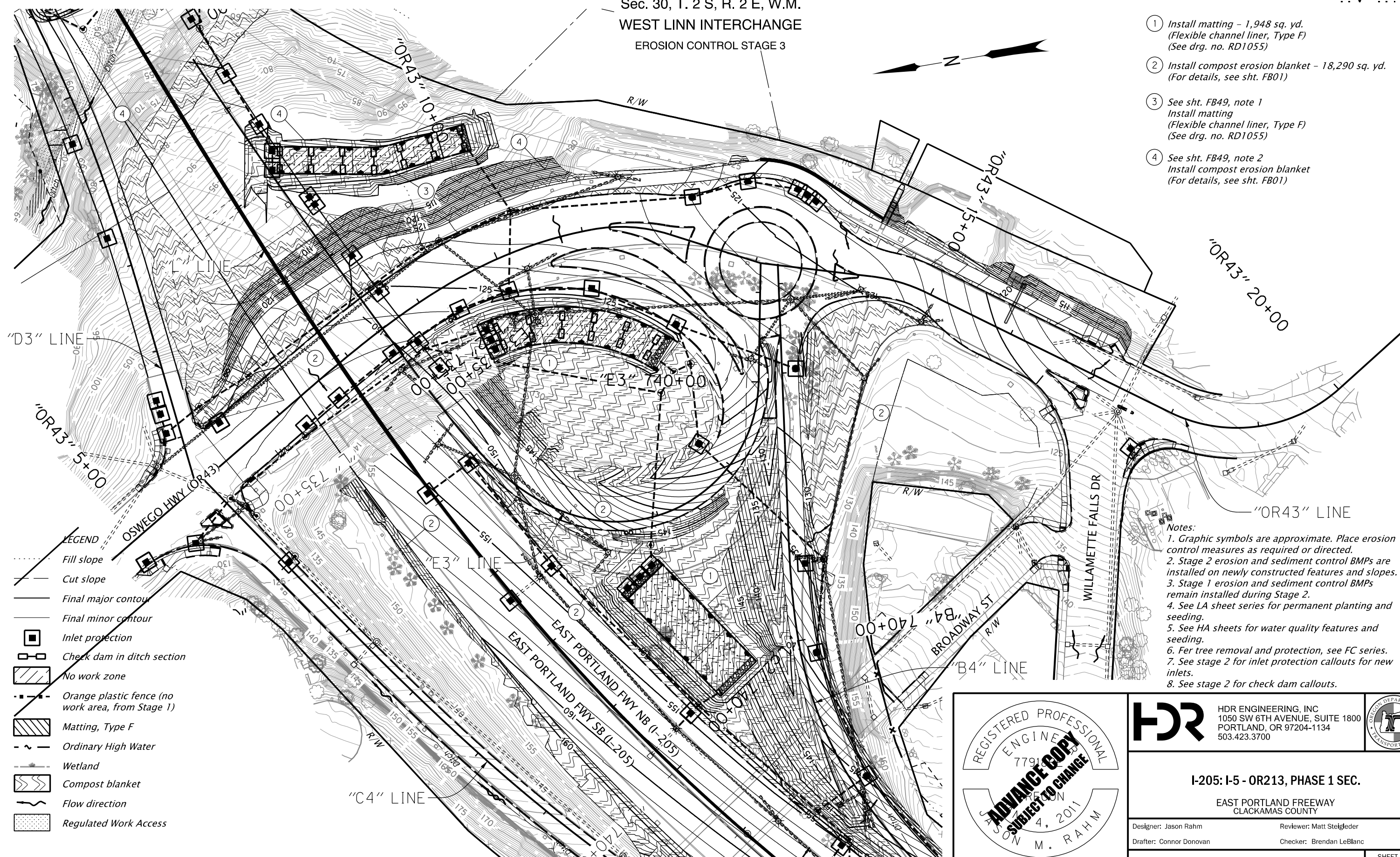
I-205: I-5 - OR213, PHASE 1 SEC.
EAST PORTLAND FREEWAY
CLACKAMAS COUNTY

Designer: Jason Rahm Reviewer: Matt Steigleder
Drafter: Connor Donovan Checker: Brendan LeBlanc

EROSION AND SEDIMENT CONTROL SHEET NO. FB49

Sec. 30, T. 2 S, R. 2 E, W.M.
WEST LINN INTERCHANGE
 EROSION CONTROL STAGE 3

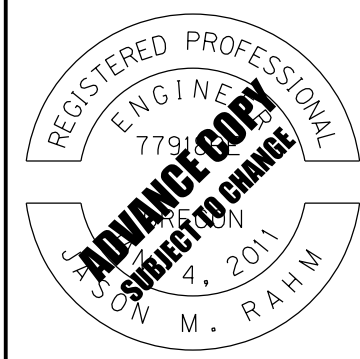
??V-???



- ① Install matting - 1,948 sq. yd. (Flexible channel liner, Type F) (See drg. no. RD1055)
- ② Install compost erosion blanket - 18,290 sq. yd. (For details, see sht. FB01)
- ③ See sht. FB49, note 1 Install matting (Flexible channel liner, Type F) (See drg. no. RD1055)
- ④ See sht. FB49, note 2 Install compost erosion blanket (For details, see sht. FB01)

- LEGEND**
- Fill slope
 - Cut slope
 - Final major contour
 - Final minor contour
 - Inlet protection
 - Check dam in ditch section
 - ▨ No work zone
 - - - Orange plastic fence (no work area, from Stage 1)
 - ▨ Matting, Type F
 - ~ - Ordinary High Water
 - Wetland
 - ▨ Compost blanket
 - Flow direction
 - Regulated Work Access

- Notes:**
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. For tree removal and protection, see FC series.
 7. See stage 2 for inlet protection callouts for new inlets.
 8. See stage 2 for check dam callouts.



EXPIRES: DEC. 31, 2022

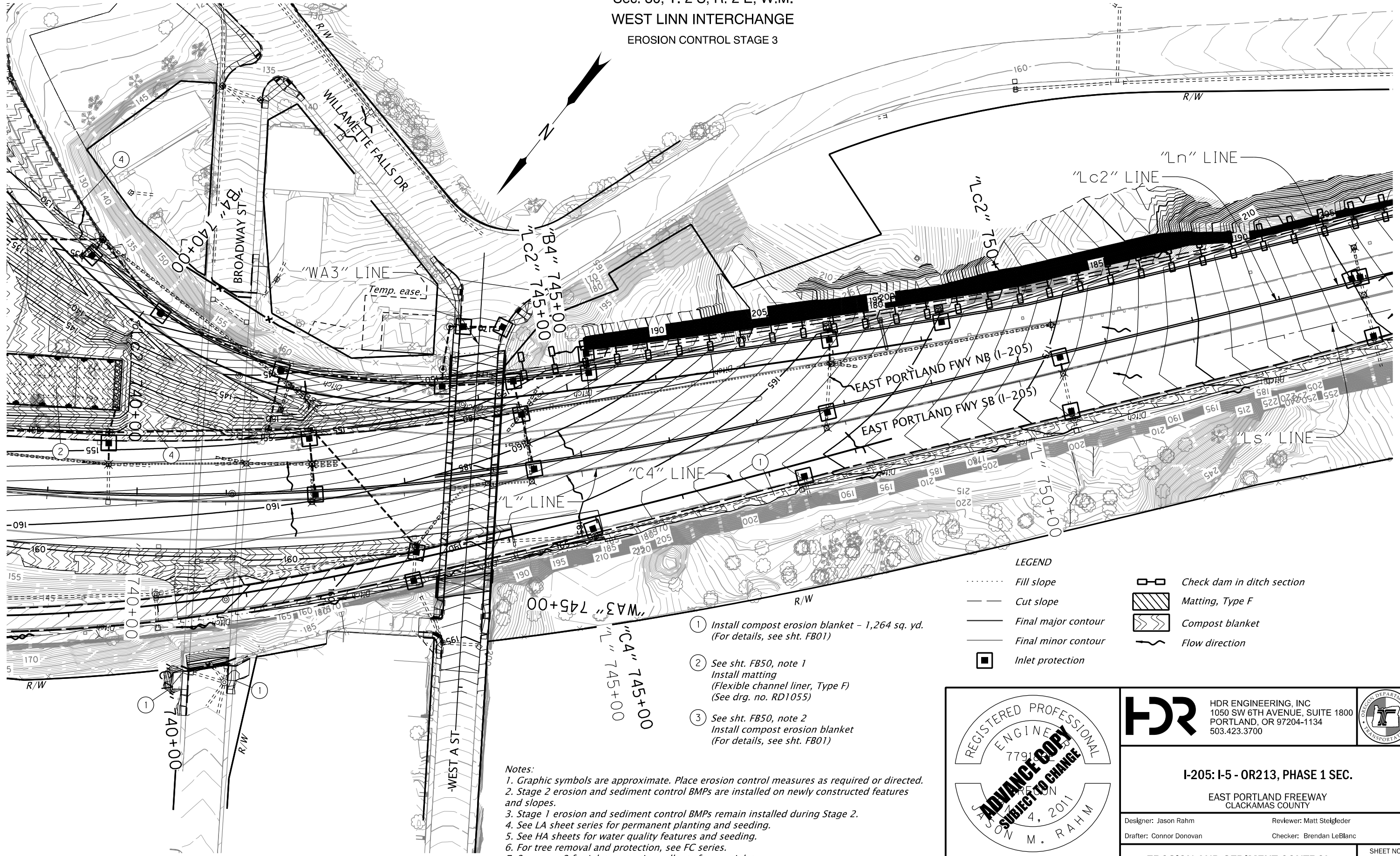
HDR	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC.	

EAST PORTLAND FREEWAY CLACKAMAS COUNTY	
Designer: Jason Rahm	Reviewer: Matt Steigleder
Drafter: Connor Donovan	Checker: Brendan LeBlanc

EROSION AND SEDIMENT CONTROL	SHEET NO. FB50
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Sec. 30, T. 2 S, R. 2 E, W.M.
 WEST LINN INTERCHANGE
 EROSION CONTROL STAGE 3

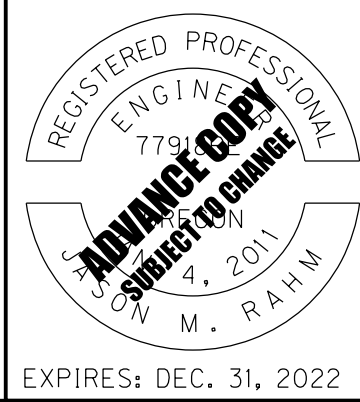
??V-???



- ① Install compost erosion blanket - 1,264 sq. yd. (For details, see sht. FB01)
- ② See sht. FB50, note 1
Install matting (Flexible channel liner, Type F) (See drg. no. RD1055)
- ③ See sht. FB50, note 2
Install compost erosion blanket (For details, see sht. FB01)

Notes:
 1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. For tree removal and protection, see FC series.
 7. See stage 2 for inlet protection callouts for new inlets.
 8. See stage 2 for check dam callouts.

LEGEND	
.....	Fill slope
---	Cut slope
—	Final major contour
—	Final minor contour
■	Inlet protection
□	Check dam in ditch section
▨	Matting, Type F
▩	Compost blanket
~	Flow direction



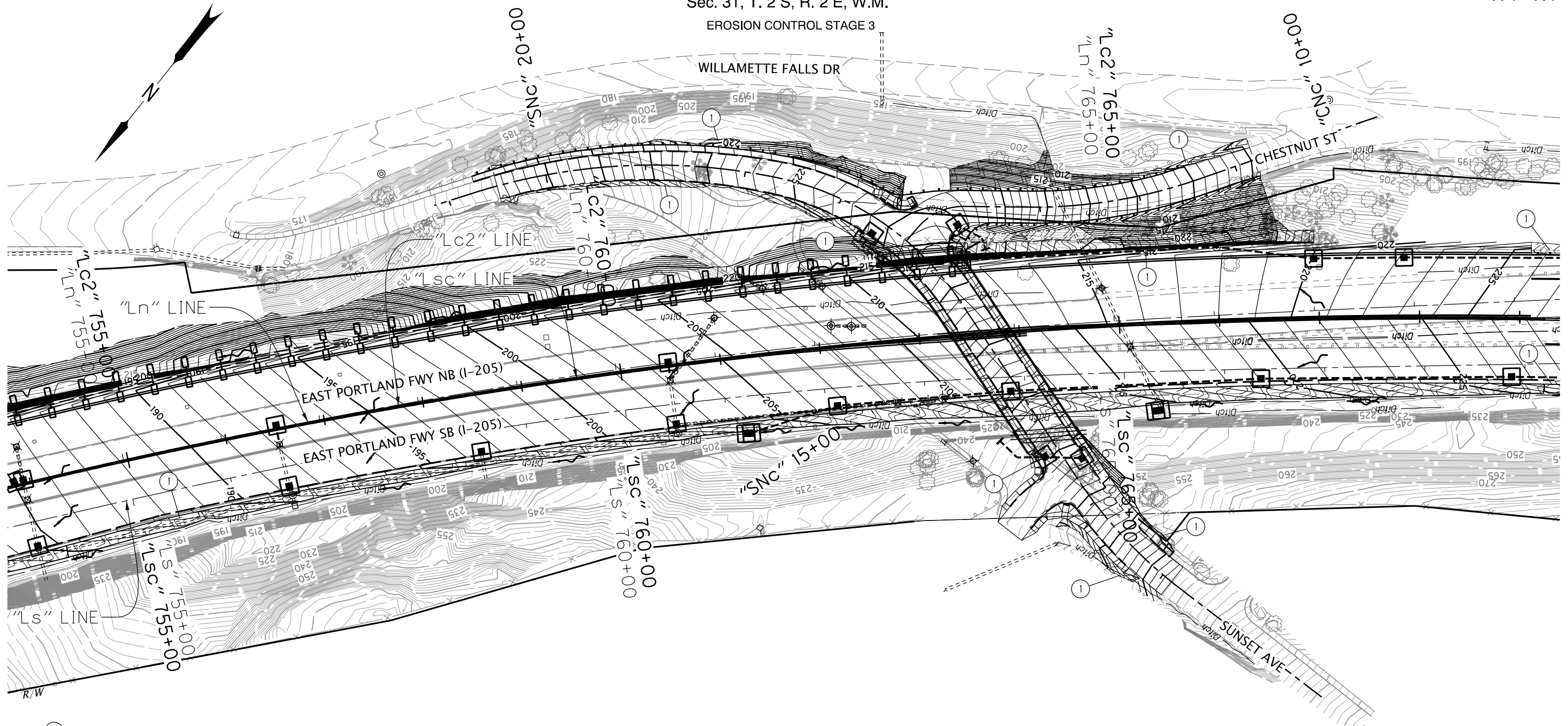
	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	

Designer: Jason Rahm Drafter: Connor Donovan	Reviewer: Matt Steigleder Checker: Brendan LeBlanc	SHEET NO. FB51
EROSION AND SEDIMENT CONTROL		

Sec. 31, T. 2 S, R. 2 E, W.M.

??V-???

EROSION CONTROL STAGE 3



① Install compost erosion blanket - 5,688 sq. yd.
 (For details, see sht. FB01)

- Notes:
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. For tree removal and protection, see FC series.
 7. See stage 2 for inlet protection callouts for new inlets.
 8. See stage 2 for check dam callouts.

- LEGEND
- Fill slope
 - Cut slope
 - Final major contour
 - - - Final minor contour
 - Inlet protection
 - Check dam in ditch section
 - ▨ Compost blanket
 - Flow direction



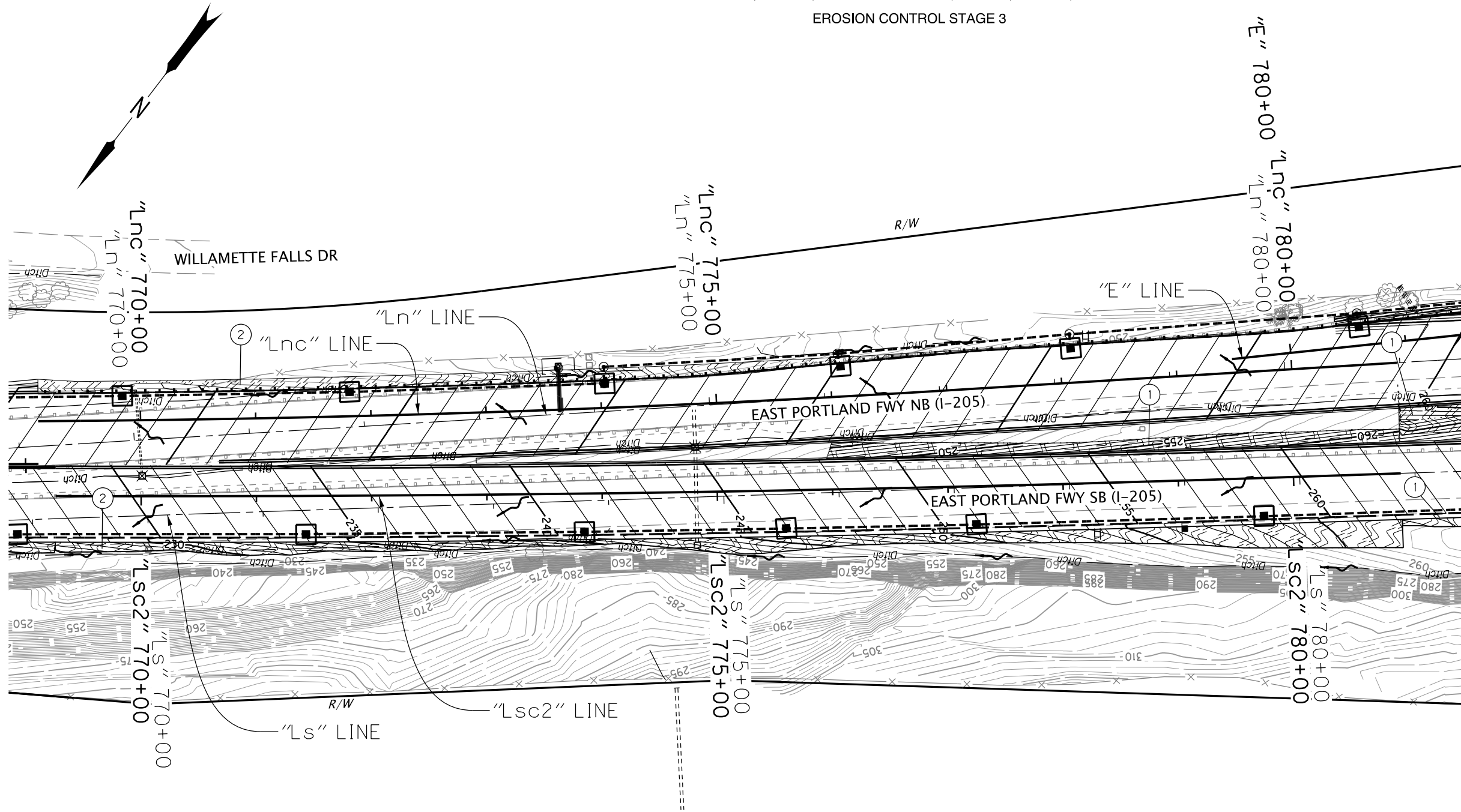
HDR	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	

Designer: Jason Rahm	Reviewer: Matt Steigleder
Drafter: Connor Donovan	Checker: Brendan LeBlanc

EROSION AND SEDIMENT CONTROL

SHEET NO.
FB52

EROSION CONTROL STAGE 3

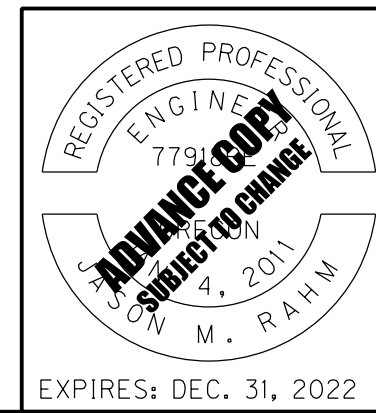


- ① Install compost erosion blanket - 16,261 sq. yd. (For details, see sht. FB01)
- ② See sht. FB52, note 1
Install compost erosion blanket (For details, see sht. FB01)

- Notes:
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. Verify trees to be removed with Engineer prior to removal.

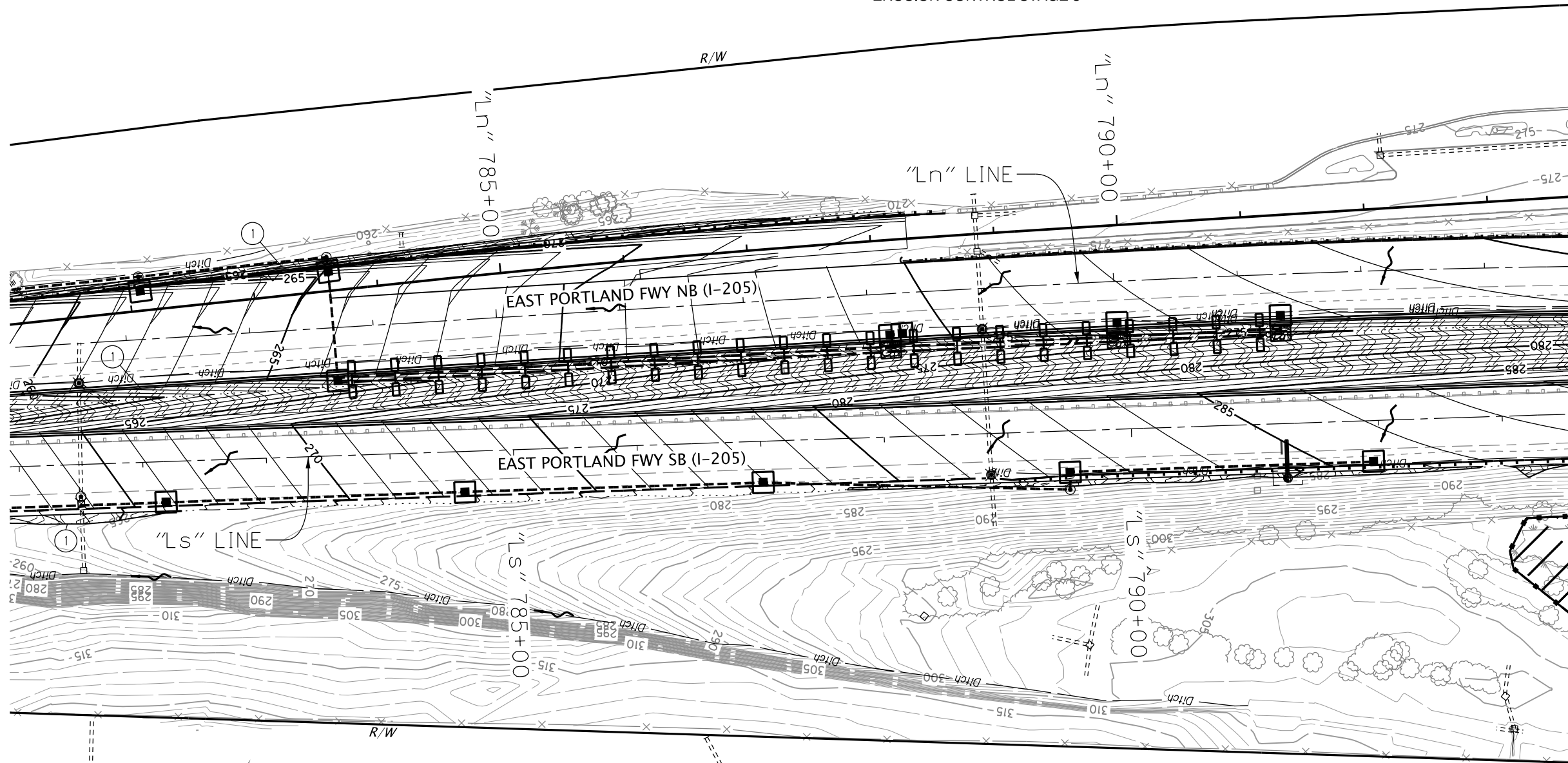
LEGEND

	Fill slope
	Cut slope
	Final major contour
	Final minor contour
	Inlet protection
	Check dam in ditch section
	Compost blanket
	Flow direction



	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	
Designer: Jason Rahm Drafter: Connor Donovan	Reviewer: Matt Steigleder Checker: Brendan LeBlanc	SHEET NO. FB53
EROSION AND SEDIMENT CONTROL		SHEET NO. FB53

① See sht. FB53, note 1
Install compost erosion blanket
(For details, see sht. FB01)



LEGEND

- Fill slope
- Cut slope
- Final major contour
- Final minor contour
- Inlet protection
- ▨ No work zone
- Check dam in ditch section
- - - Orange plastic fence (no work area, from Stage 1)
- ▨ Compost blanket
- ~ Flow direction

- Notes:
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. For tree removal and protection, see FC series.
 7. See stage 2 for inlet protection callouts for new inlets.
 8. See stage 2 for check dam callouts.

REGISTERED PROFESSIONAL
ENGINEER
7791
JULY 11, 2011
M. RAHM
EXPIRES: DEC. 31, 2022

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SUBJECT TO CHANGE**

HDR HDR ENGINEERING, INC
1050 SW 6TH AVENUE, SUITE 1800
PORTLAND, OR 97204-1134
503.423.3700

I-205: I-5 - OR213, PHASE 1 SEC.
EAST PORTLAND FREEWAY
CLACKAMAS COUNTY

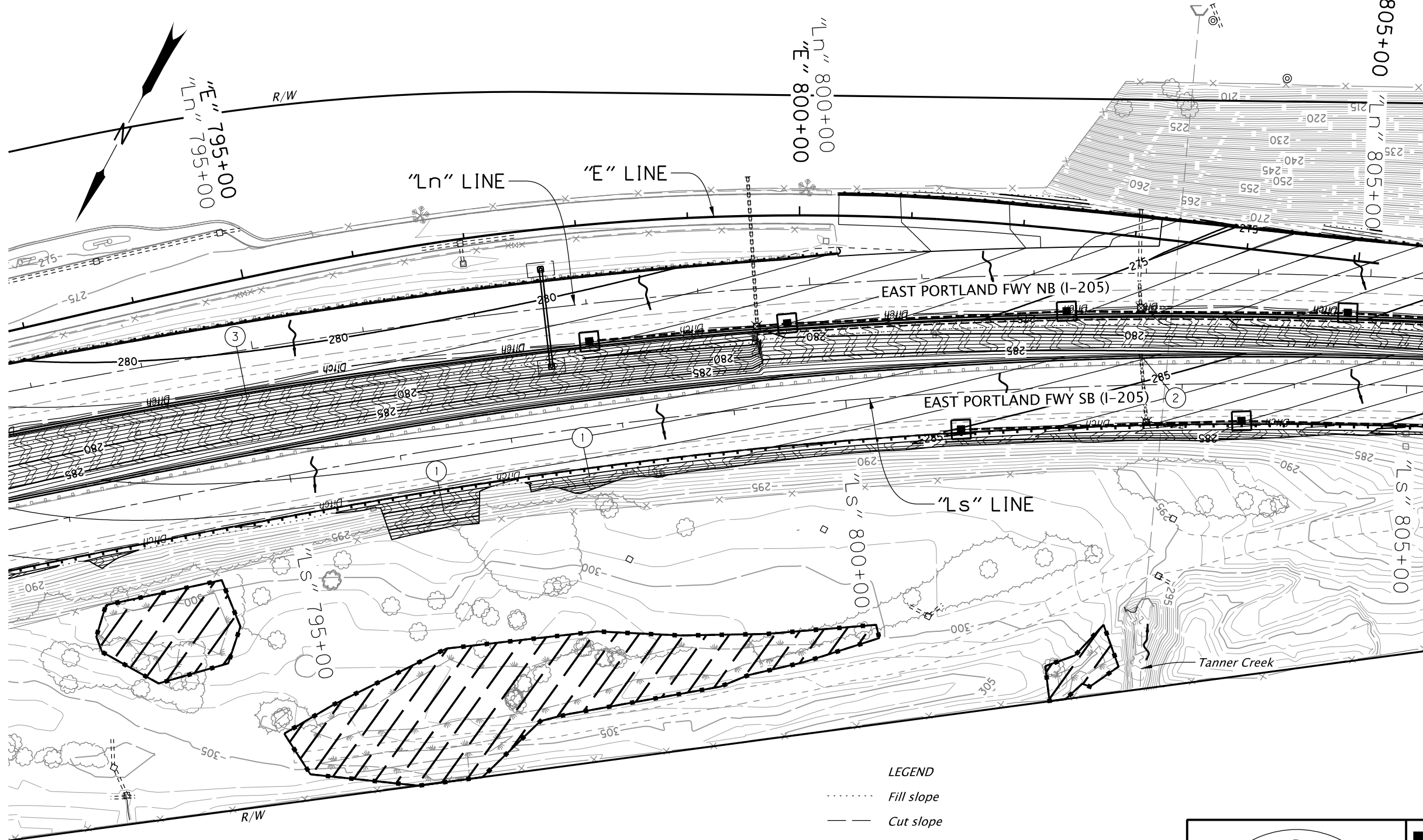
Designer: Jason Rahm Reviewer: Matt Steigleder
Drafter: Connor Donovan Checker: Brendan LeBlanc

EROSION AND SEDIMENT CONTROL SHEET NO. FB54

Sec. 36, T. 2 S, R. 1 E, W.M.

EROSION CONTROL STAGE 3

??V-???



- ① Install compost erosion blanket - 4,268 sq. yd. (For details, see sht. FB01)
- ② Const. temp. slope drain (See drg. no. RD1045)
- ③ See sht. FB53, note 1 Install compost erosion blanket (For details, see sht. FB01)

LEGEND

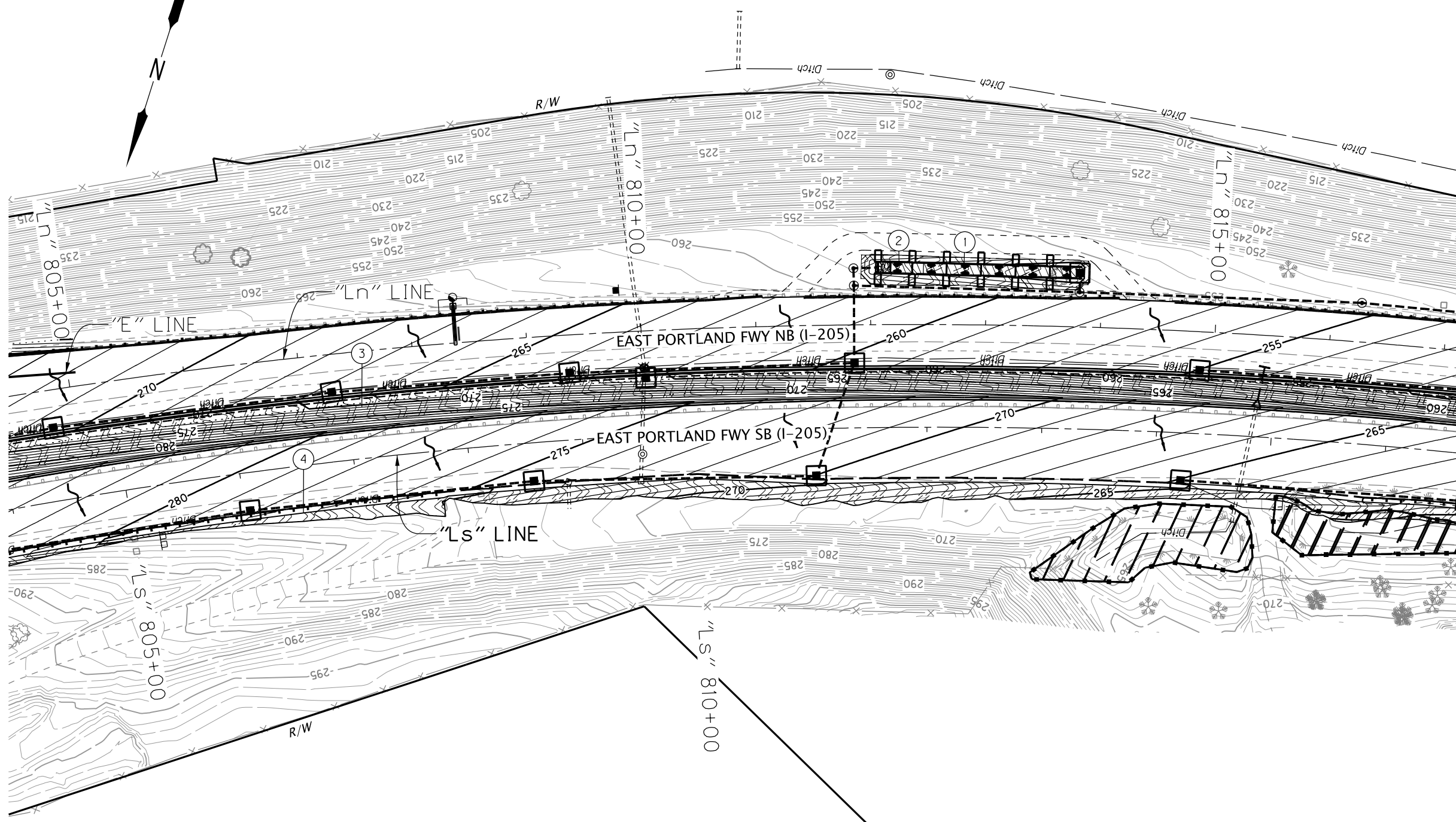
- Fill slope
- Cut slope
- Final major contour
- Final minor contour
- Inlet protection
- ▨ No work zone
- - - - Orange plastic fence (no work area, from Stage 1)
- ▧ Compost blanket
- ~ Flow direction

- Notes:
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. For tree removal and protection, see FC series.
 7. See stage 2 for inlet protection callouts for new inlets.



	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	

Designer: Jason Rahm	Reviewer: Matt Steigleder
Drafter: Connor Donovan	Checker: Brendan LeBlanc
EROSION AND SEDIMENT CONTROL	
SHEET NO. FB55	



- ① Install matting - 194 sq. yd. (Flexible channel liner, Type F) (See drg. no. RD1055)
- ② Install compost erosion blanket - 552 sq. yd. (For details, see sht. FB01)
- ③ See sht. FB53, note 1 Install compost erosion blanket (For details, see sht. FB01)
- ④ See sht. FB55, note 1 Install compost erosion blanket (For details, see sht. FB01)

LEGEND

- Fill slope
- Cut slope
- Final major contour
- Final minor contour
- Inlet protection
- No work zone
- Check dam in ditch section
- Temporary slope drain with energy dissipator
- Wetland
- Flow direction
- Compost blanket
- Matting, Type F
- Orange plastic fence (no work area)
- Regulated Work Access

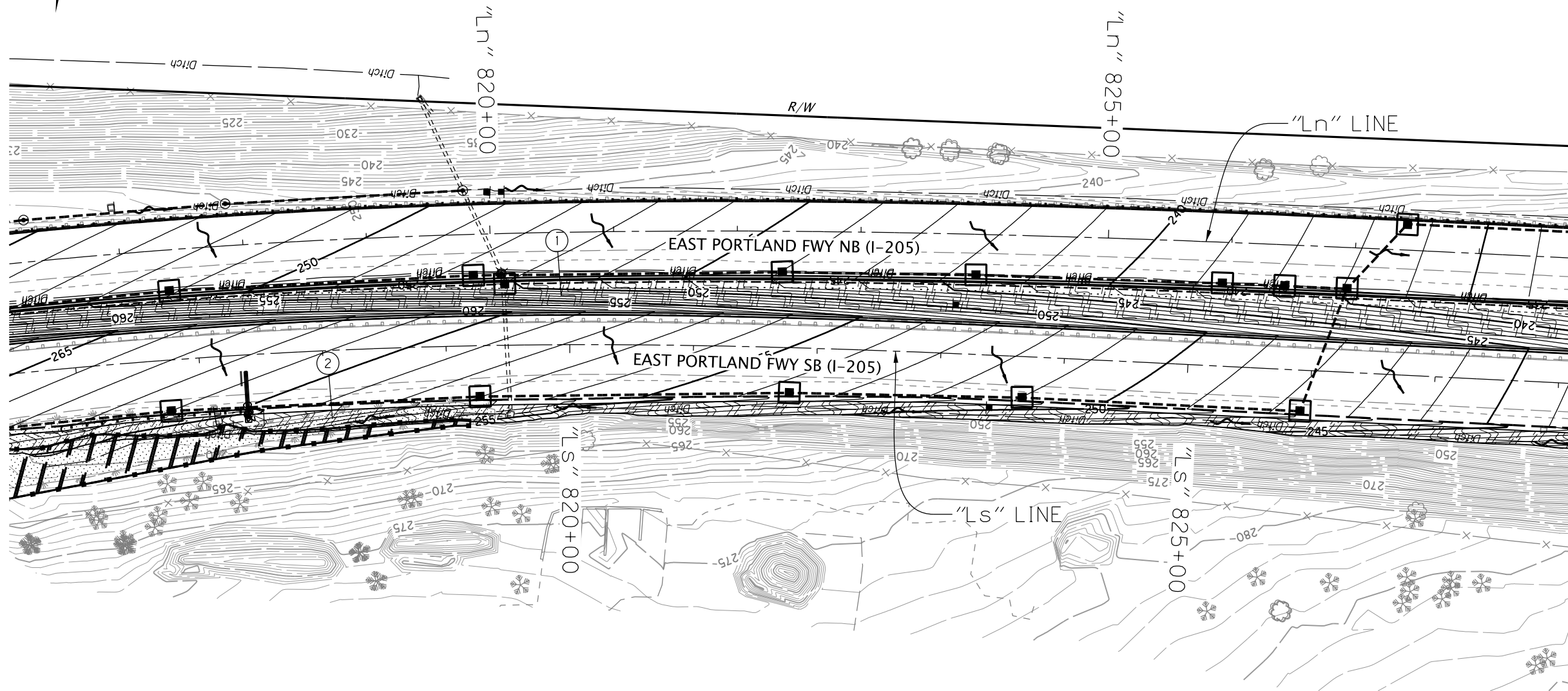
- Notes:
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. For tree removal and protection, see FC series.
 7. See stage 2 for inlet protection callouts for new inlets.
 8. See stage 2 for check dam callouts.



	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	

Designer: Jason Rahm Drafter: Connor Donovan	Reviewer: Matt Steigleder Checker: Brendan LeBlanc	SHEET NO. FB56
EROSION AND SEDIMENT CONTROL		

- ① See sht. FB53, note 1
Install compost erosion blanket
(For details, see sht. FB01)
- ② See sht. FB55, note 1
Install compost erosion blanket
(For details, see sht. FB01)



LEGEND

- Fill slope
- Cut slope
- Final major contour
- Final minor contour
- Inlet protection
- ▨ No work zone
- ⊗ Wetland
- ~ Flow direction
- ▧ Compost blanket
- - - - Orange plastic fence (no work area)
- ▨ No Work Access
- ▨ Regulated Work Access

- Notes:**
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. For tree removal and protection, see FC series.
 7. See stage 2 for inlet protection callouts for new inlets.

REGISTERED PROFESSIONAL
ENGINEER
7791
M. RAHM
APR 4, 2011
EXPIRES: DEC. 31, 2022

**ADVANCE COPY
SUBJECT TO CHANGE**

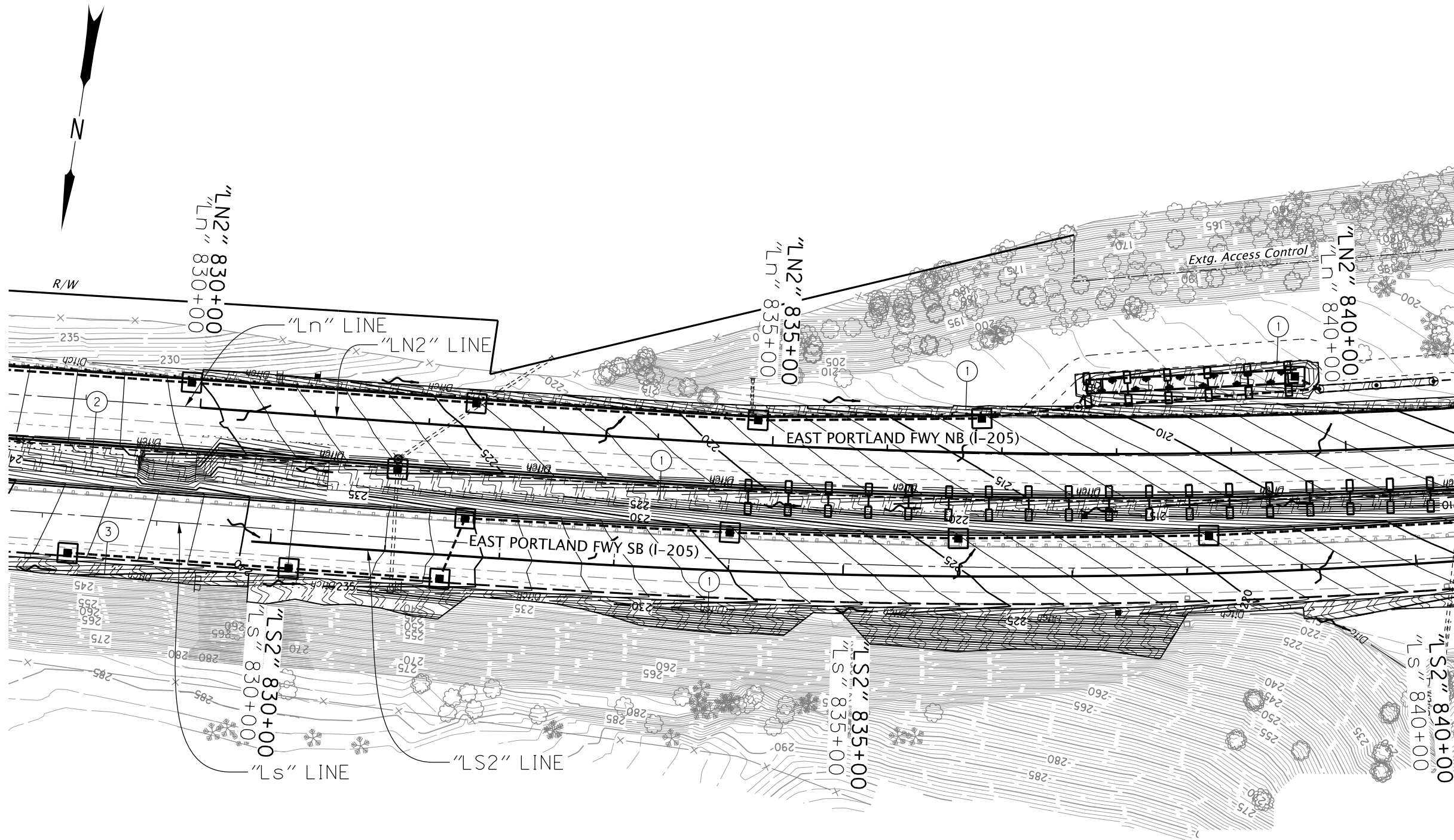
HDR HDR ENGINEERING, INC
1050 SW 6TH AVENUE, SUITE 1800
PORTLAND, OR 97204-1134
503.423.3700

I-205: I-5 - OR213, PHASE 1 SEC.
EAST PORTLAND FREEWAY
CLACKAMAS COUNTY

Designer: Jason Rahm Reviewer: Matt Steigleder
Drafter: Connor Donovan Checker: Brendan LeBlanc

EROSION AND SEDIMENT CONTROL SHEET NO. FB57

- ① Install compost erosion blanket - 16,611 sq. yd.
(For details, see sht. FB01)
- ② See sht. FB53, note 1
Install compost erosion blanket
(For details, see sht. FB01)
- ③ See sht. FB55, note 1
Install compost erosion blanket
(For details, see sht. FB01)



LEGEND

- Fill slope
- Cut slope
- Final major contour
- Final minor contour
- Inlet protection
- ▨ No work zone
- Check dam in ditch section
- Flow direction
- ▨ Compost blanket
- ▨ Matting, Type F

- Notes:**
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. For tree removal and protection, see FC series.
 7. See stage 2 for inlet protection callouts for new inlets.
 8. See stage 2 for check dam callouts.

REGISTERED PROFESSIONAL
ENGINEER
7791
ADVANCE COPY
SUBJECT TO CHANGE
JASON M. RAHM
APR 4, 2011

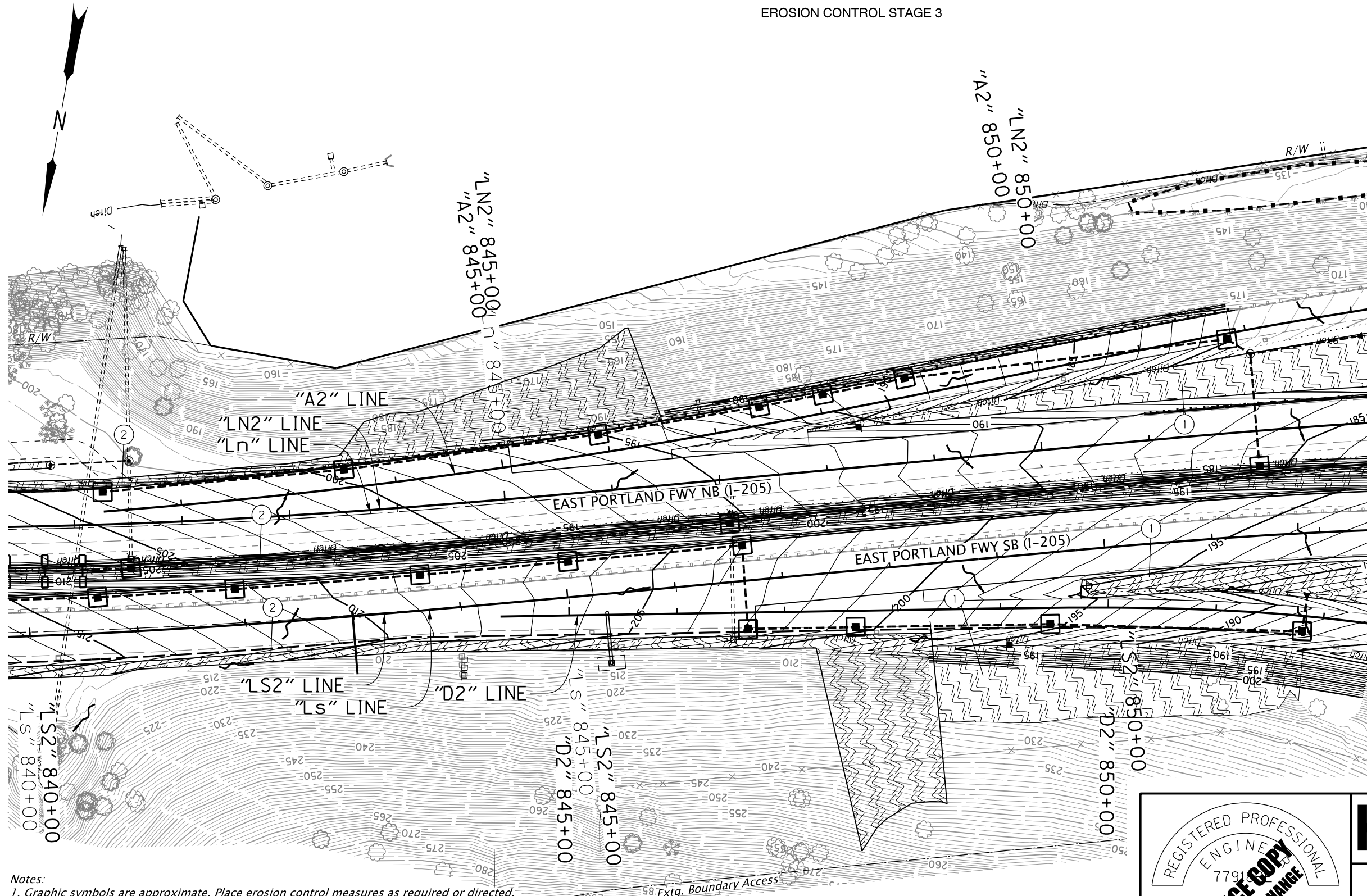
EXPIRES: DEC. 31, 2022

HDR	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC.	
EAST PORTLAND FREEWAY CLACKAMAS COUNTY		
Designer: Jason Rahm	Reviewer: Matt Steigleder	
Drafter: Connor Donovan	Checker: Brendan LeBlanc	
EROSION AND SEDIMENT CONTROL		SHEET NO. FB58

Sec. 35, T. 2 S, R. 1 E, W.M.
 S. WEST LINN INTERCHANGE
 EROSION CONTROL STAGE 3

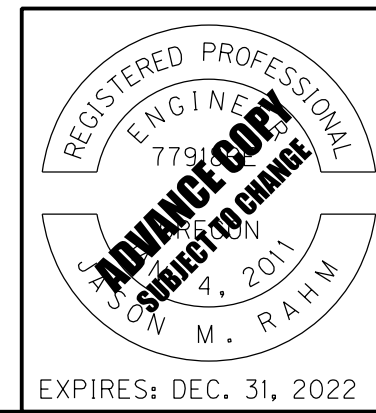
??V-???

- ① Install compost erosion blanket - 22,778 sq. yd.
 (For details, see sht. FB01)
- ② See sht. FB58, note 1
 Install compost erosion blanket
 (For details, see sht. FB01)



- LEGEND
- Fill slope
 - Cut slope
 - Final major contour
 - Final minor contour
 - Inlet protection
 - ▨ No work zone
 - ▧ Wetland
 - - - Ordinary High Water
 - Flow direction
 - ▨ Compost blanket
 - ▨ Matting, Type F
 - - - Orange plastic fence (no work area, from Stage 1)

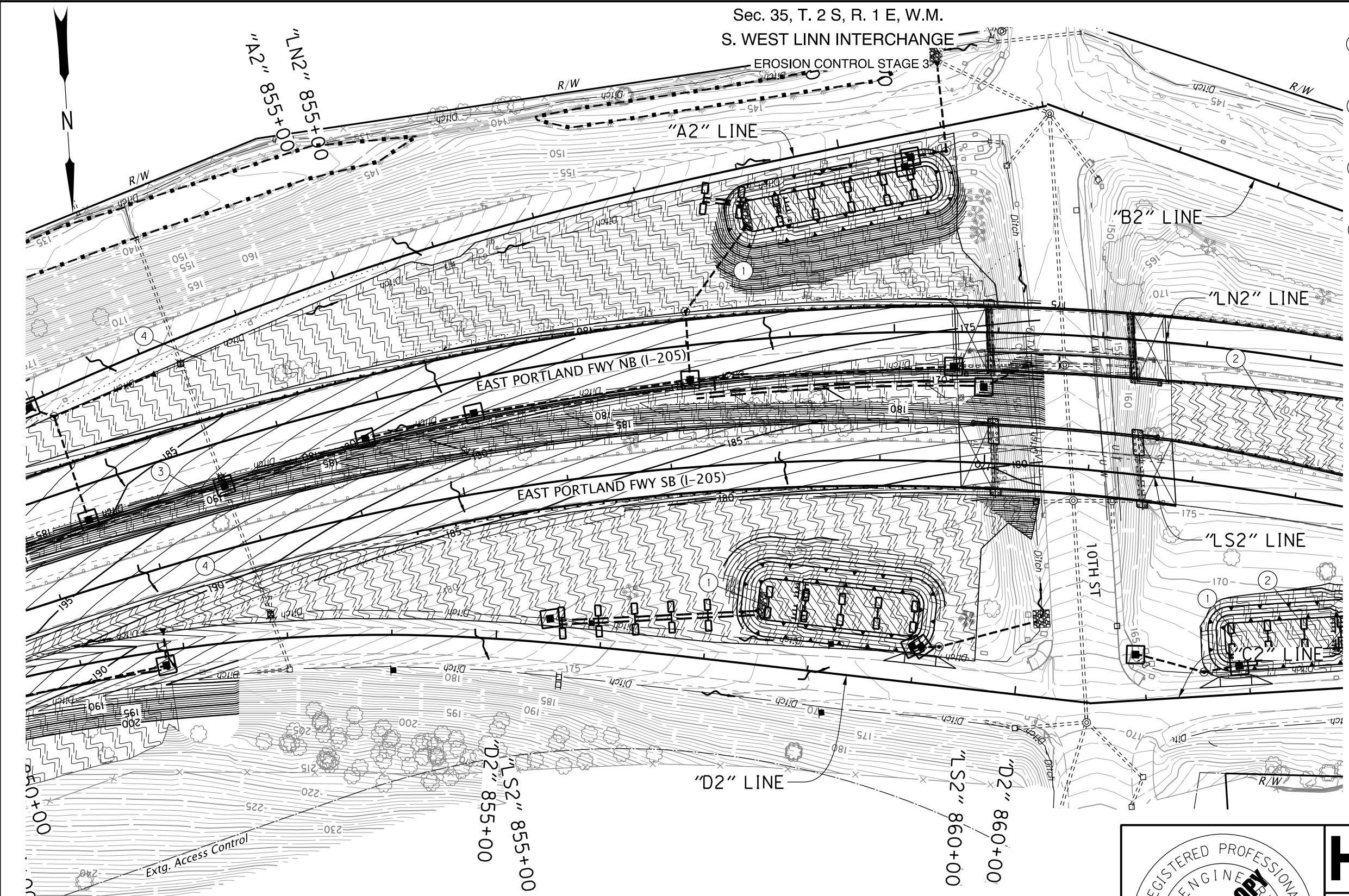
- Notes:
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. For tree removal and protection, see FC series.
 7. See stage 2 for inlet protection callouts for new inlets.
 8. See stage 2 for check dam callouts.



	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	
Designer: Jason Rahm Drafter: Connor Donovan	Reviewer: Matt Steigleder Checker: Brendan LeBlanc	SHEET NO. FB59
EROSION AND SEDIMENT CONTROL		

Sec. 35, T. 2 S, R. 1 E, W.M.
S. WEST LINN INTERCHANGE

??V-???

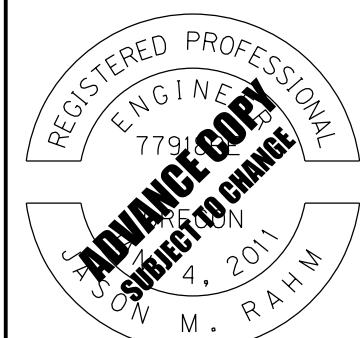


- ① Install matting - 1,797 sq. yd. (Flexible channel liner, Type F) (See drg. no. RD1055)
- ② Install compost erosion blanket - 13,137 sq. yd. (For details, see sht. FB01)
- ③ See sht. FB58, note 1
Install compost erosion blanket (For details, see sht. FB01)
- ④ See sht. FB59, note 1
Install compost erosion blanket (For details, see sht. FB01)

LEGEND

- Fill slope
- Cut slope
- Final major contour
- Final minor contour
- Inlet protection
- ▨ No work zone
- Check dam in ditch section
- Wetland
- - - Ordinary High Water
- ~ Flow direction
- ▨ Compost blanket
- ▨ Matting, Type F
- - - Orange plastic fence (no work area, from Stage 1)

- Notes:
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. For tree removal and protection, see FC series.
 7. See stage 2 for inlet protection callouts for new inlets.
 8. See stage 2 for check dam callouts.



EXPIRES: DEC. 31, 2022

	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	

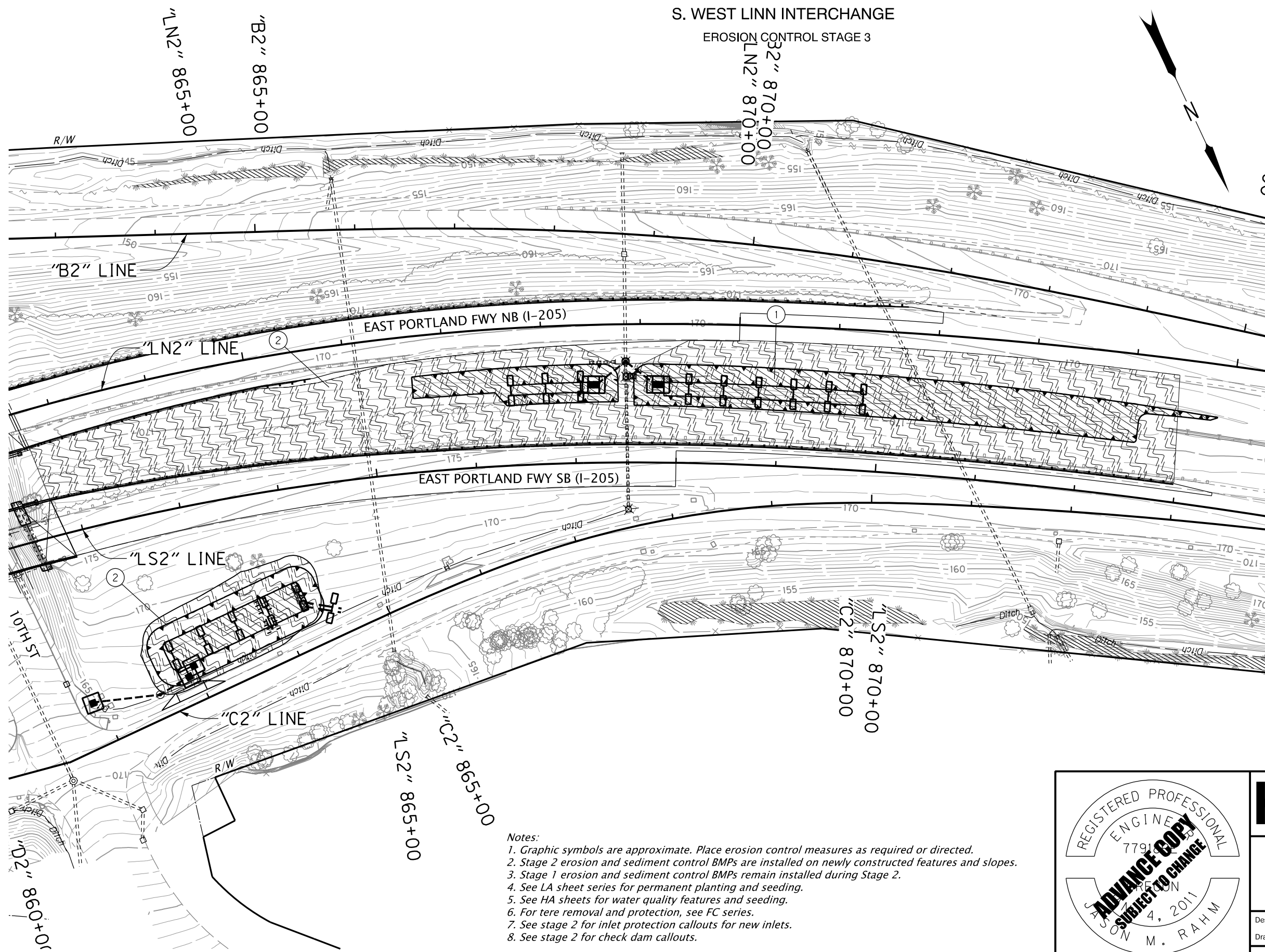
Designer: Jason Rahm	Reviewer: Matt Steigleder
Drafter: Connor Donovan	Checker: Brendan LeBlanc

EROSION AND SEDIMENT CONTROL	SHEET NO. FB60
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Sec. 35, T. 2 S, R. 1 E, W.M.
S. WEST LINN INTERCHANGE

??V-???

EROSION CONTROL STAGE 3

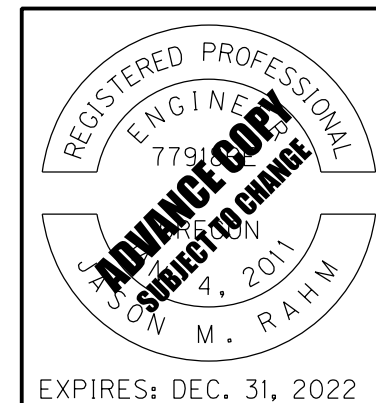


- ① Install matting - 3,082 sq. yd. (Flexible channel liner, Type F) (See drg. no. RD1055)
- ② See sht. FB60, note 1 Install compost erosion blanket (For details, see sht. FB01)

LEGEND

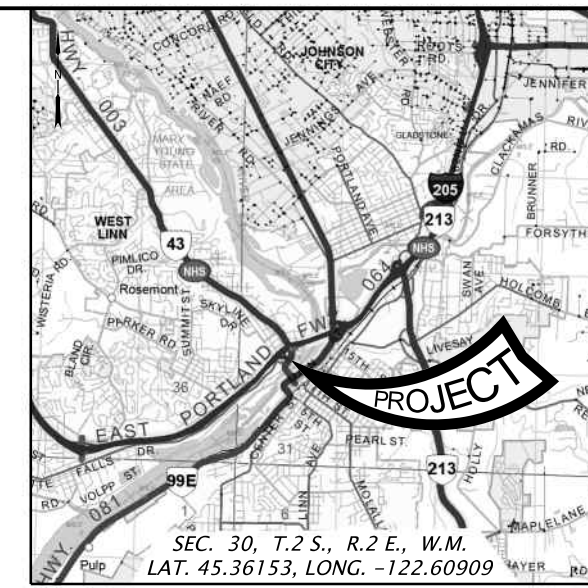
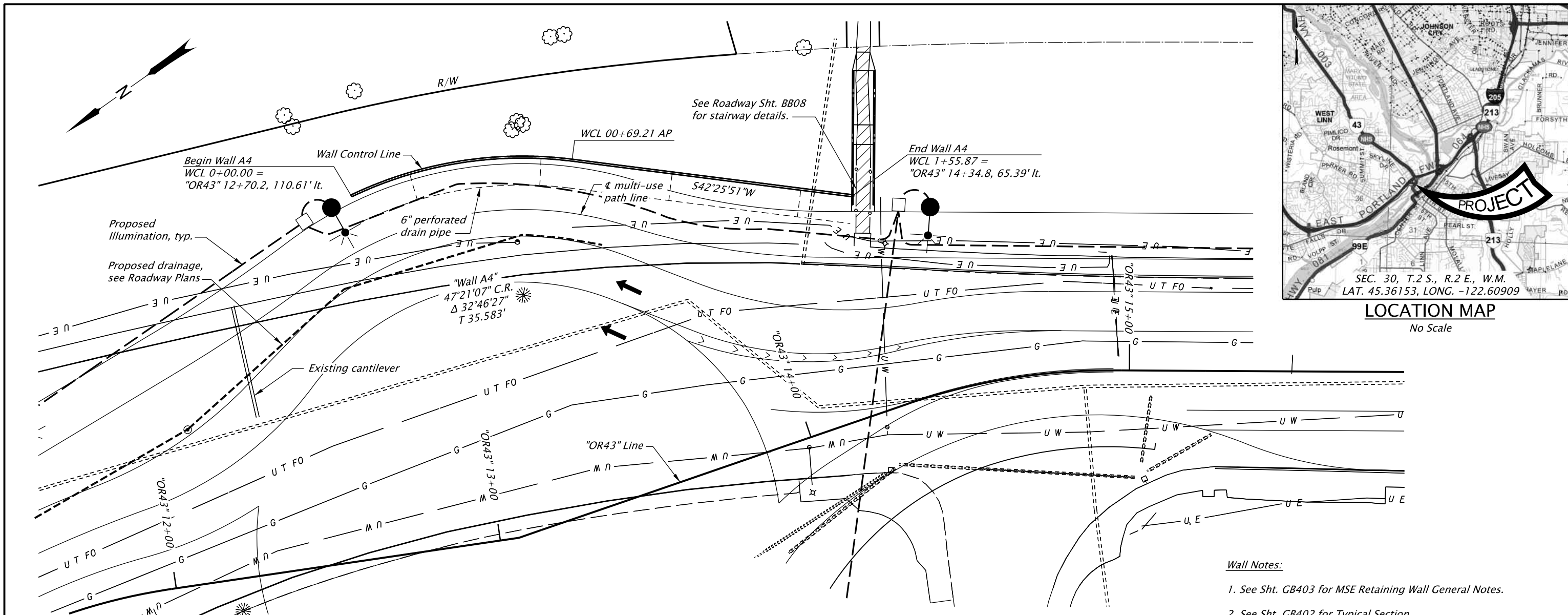
- Fill slope
- Cut slope
- Final major contour
- Final minor contour
- Inlet protection
- ▨ No work zone
- Check dam in ditch section
- Wetland
- - - Ordinary High Water
- ~ Flow direction
- ▨ Compost blanket
- ▨ Matting, Type F

- Notes:
1. Graphic symbols are approximate. Place erosion control measures as required or directed.
 2. Stage 2 erosion and sediment control BMPs are installed on newly constructed features and slopes.
 3. Stage 1 erosion and sediment control BMPs remain installed during Stage 2.
 4. See LA sheet series for permanent planting and seeding.
 5. See HA sheets for water quality features and seeding.
 6. For tree removal and protection, see FC series.
 7. See stage 2 for inlet protection callouts.
 8. See stage 2 for check dam callouts.



	HDR ENGINEERING, INC 1050 SW 6TH AVENUE, SUITE 1800 PORTLAND, OR 97204-1134 503.423.3700	
	I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY	

Designer: Jason Rahm	Reviewer: Matt Steigleder
Drafter: Connor Donovan	Checker: Brendan LeBlanc
EROSION AND SEDIMENT CONTROL	
SHEET NO. FB61	

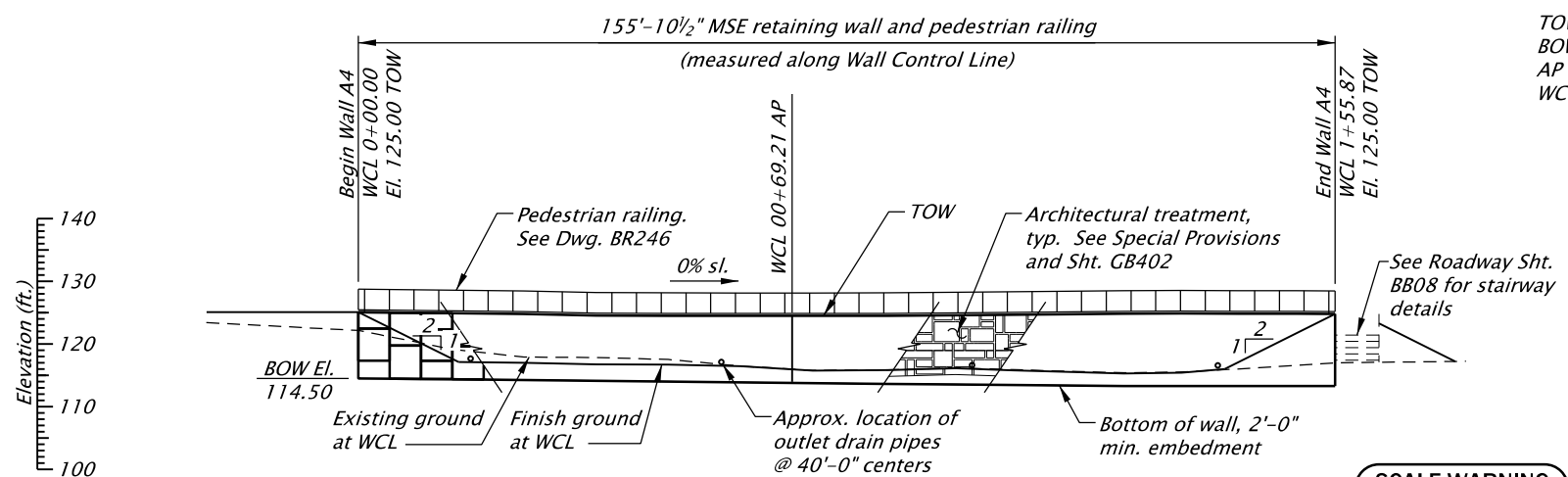


LOCATION MAP
No Scale

PLAN - WALL A4
Scale: 1"=30'

- Wall Notes:**
1. See Sht. GB403 for MSE Retaining Wall General Notes.
 2. See Sht. GB402 for Typical Section.
 3. Wall Control Line, stationing and offset shown are referenced to the "OR43" Line.
 4. Contractor shall field verify existing ground elevations at face of wall to assure the minimum embedment required is provided.
 5. See Sht. GA401 for Geotechnical Data.
 6. Locate, preserve and protect all utilities unless otherwise noted.

Notes:
TOW = Top of wall
BOW = Bottom of wall
AP = Angle point
WCL = Wall Control Line



DEVELOPED ELEVATION - WALL A4
Scale: 1"=30'

Note:
Elevations shown are based on North American Vertical Datum 1988 (NAVD88).

SCALE WARNING
IF THIS SCALE LINE DOES NOT MEASURE ONE INCH, THEN DRAWING IS NOT TO SCALE

STRUCTURE NO.	00000
BDS DWG NO.	00000
CALC. BOOK	0000
HWY: 064	
M.P.: 11.2	
COUNTY	Clackamas
DATE	04/21



		www.dowl.com rtw_OR43_ES_45.36153/-122.60909
Designer: Wyatt Dean, E.I. Drafter: Yuka Garzenelli	Reviewer: Peter G. Slocum, P.E., S.E. Checker: Peter G. Slocum, P.E., S.E.	SHEET NO. GB401
RETAINING WALL - WALL A4		

Notes:

Design loading will include (as listed in the Special Provisions and listed on the Wall Loading Conditions on Sht. GB403):

- Earth pressures.
- Live load surcharges.
- Seismic loads.

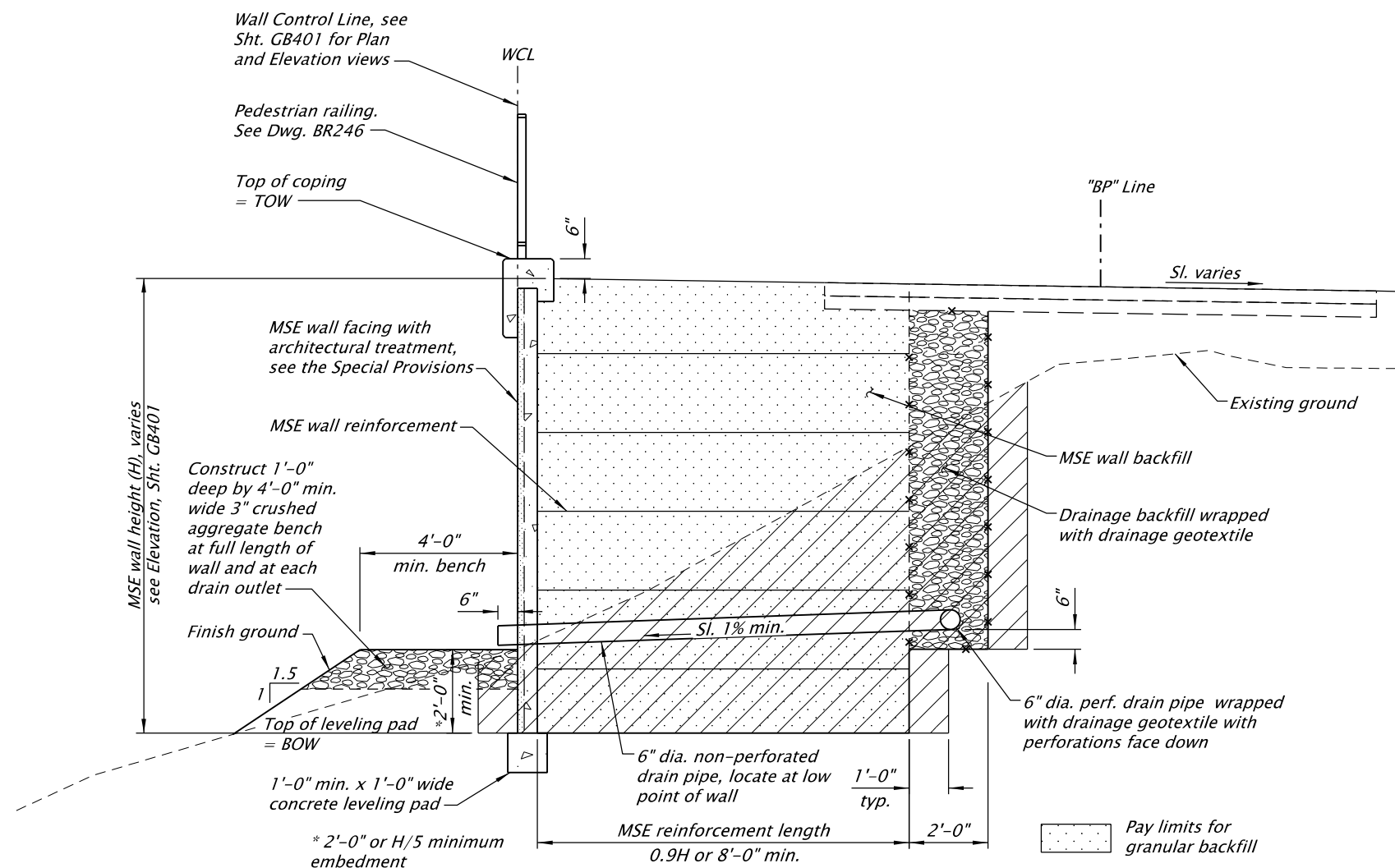
MSE retaining wall design is based on the following soil properties per ODOT GDM and recommendations by the geotechnical team:

<p>Soil Retained by Wall: Soil angle of internal friction = 32° Soil cohesion = 0 psf Soil density = 125 pcf Coefficient of friction = 0.55</p>	<p>Granular Wall Backfill: Soil angle = 34° Soil density = 130 pcf</p>
--	---

The internal and external stability for overturning and sliding, and the overall stability, bearing resistance and settlement will be addressed in site specific design. The contractor's engineer for the proprietary wall shall complete calculations and selection of strap length, strap selection, internal wall stability, external sliding and overturning and final wall configuration.

Only preapproved MSE walls are allowed as listed in ODOT's Geotechnical Design Manual (GDM) Chapter 15 Appendix D.

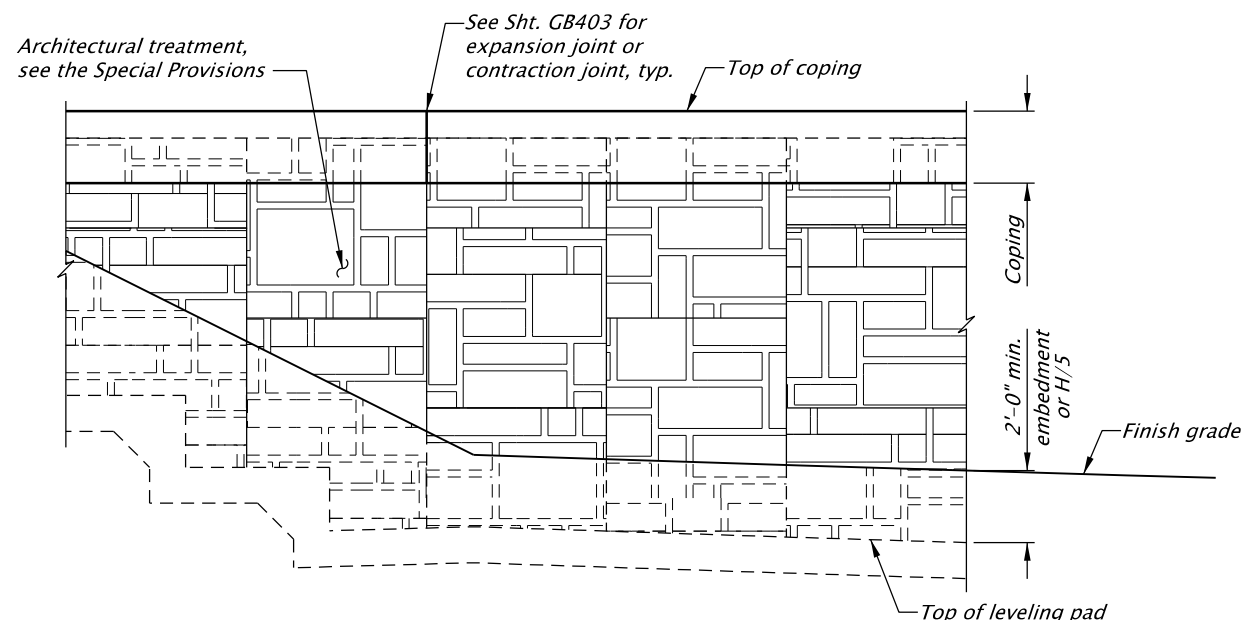
Oregon law requires the rules set forth in OAR 952-001-0010 through 952-001-0090, adopted by the Oregon Utility Notification Center, to be observed. Copies of these rules may be obtained from the Center by calling 1-800-332-2344 or 811.



TYPICAL SECTION AND PAY LIMITS

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

- Pay limits for granular backfill
- Pay limits for structure excavation



RETAINING WALL A4 ARCHITECTURAL TREATMENT

Scale: 3/16"=1'-0"

SCALE WARNING

IF THIS SCALE LINE DOES NOT MEASURE ONE INCH, THEN DRAWING IS NOT TO SCALE

STRUCTURE NO.	00000
BDS DWG NO.	00000
CALC. BOOK	0000
HWY: 064	
M.P.: 11.2	
COUNTY	Clackamas
DATE	04/21



EXPIRES: 06/30/

rtw_OR43_ES_45.36153/-122.60909 I-205: I-5 - OR213, PHASE 1 SEC. EAST PORTLAND FREEWAY CLACKAMAS COUNTY		
Designer: Wyatt Dean, E.I.	Reviewer: Peter G. Slocum, P.E., S.E.	RETAINING WALL - WALL A4
Drafter: Yuka Garzenelli	Checker: Peter G. Slocum, P.E., S.E.	
		SHEET NO. GB402

General Notes:

Provide all materials and perform all work according to the Oregon Standard Specifications for Construction 2018 and the Special Provisions.

Design MSE retaining wall in accordance with the "2017 AASHTO LRFD Bridge Design Specification", 8th Edition, as modified by the "ODOT Geotechnical Design Manual", 2018. Seismic design is for 1000-year return (Life Safety) period criteria. The horizontal peak ground acceleration coefficients (PGA) is 0.255 based on 2014 USGS seismic hazard maps. The site is defined as a site Class C with site factor (Fpga) of 1.2.

Provide a minimum service life of 75 years for all components.

Provide all reinforcing steel according to ASTM Specification A706 or A615, Grade 60. Provide field-bent or welded reinforcement according to ASTM Specification A706. Splice reinforcing steel at alternate bars, staggered at least one splice length or as far as possible, unless shown otherwise. Provide the following splice lengths, unless shown otherwise:

Reinforcing Splice Length (Class B, Uncoated) Grade 60, $f_c = 4.0$ ksi											
Bar Size	#3	#4	#5	#6	#7	#8	#9	#10	#11	#14	#18
Uncoated Splice Length	1'-4"	1'-7"	2'-0"	2'-5"	2'-9"	3'-2"	3'-7"	4'-0"	4'-5"	Not Permitted	

Place bars 2" clear of the nearest face of concrete unless shown otherwise.

Do not backfill wall until all trenching that may be necessary in front of the wall is backfilled and compacted, and compacted toe fill is in place to top of subgrade.

Provide Class 4000 - 3/4" concrete for the precast wall panels and the coping.

Provide commercial grade concrete for the leveling pads.

The location/stationing of steps in the foundation must maintain the cover shown in the plans. Any deviation requires approval by the Engineer.

Contractor shall include details to avoid utilities in working drawing submittal.

Field verify elevation of top of coping prior to construction of coping. Keep coping depth smooth and uniform.

Provide coping contraction joints at 15'-0" maximum spacing and coping expansion joints at 45'-0" maximum spacing. Stop horizontal bars 2" clear of expansion joints. Provide extra bent bars on each side of joints. Align coping joints with vertical wall joints.

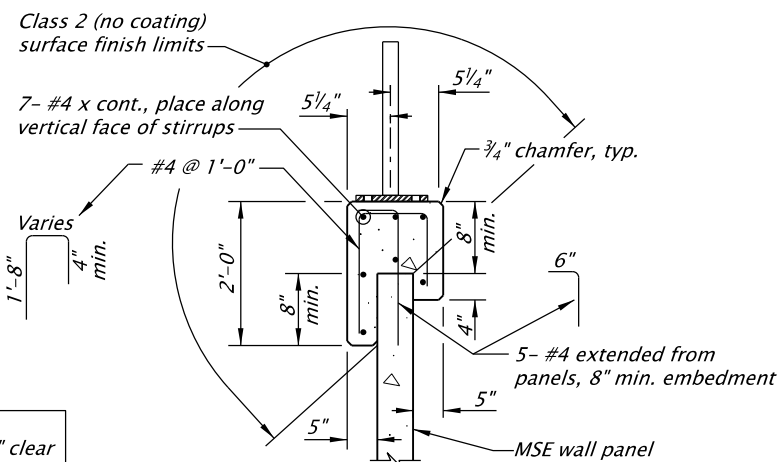
Provide an architectural finish on all wall facing panels. See the Special Provisions.

Oregon law requires the rules set forth in OAR 952-001-0010 through 952-001-0090, adopted by the Oregon Utility Notification Center, to be observed. Copies of these rules may be obtained from the Center by calling 1-800-332-2344 or 811.

Construct retaining walls according to manufacturer's recommendations.

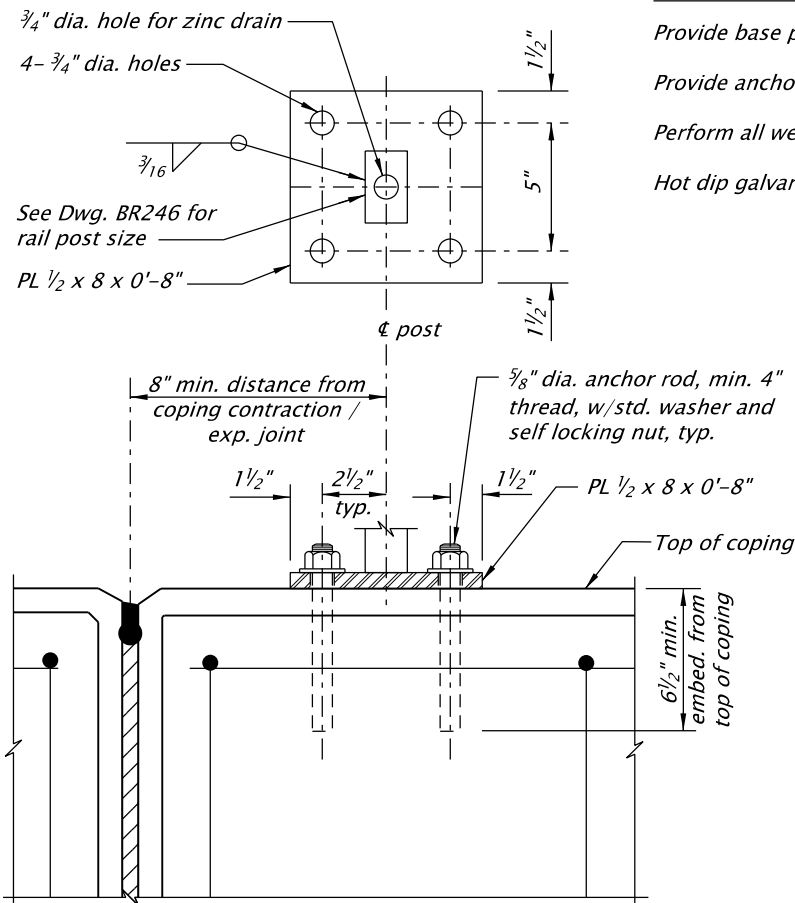
Only hand operated compaction equipment allowed within 3'-0" of wall. Field verify obstructions prior to shop drawing submittal.

Provide threaded rods for the resin-bonded anchors according to ASTM F1554 Grade 55. Provide threaded rods threaded full length. The minimum pull-out strength is 19,600 lbs. Install resin-bonded anchors according to the manufacturer's instructions. Alternatively, provide hex head cast-in-place bolts according to ASTM F1554 Grade 55. Cast-in-place bolts shall be 3/8" diameter and embedded 6 1/2" minimum.



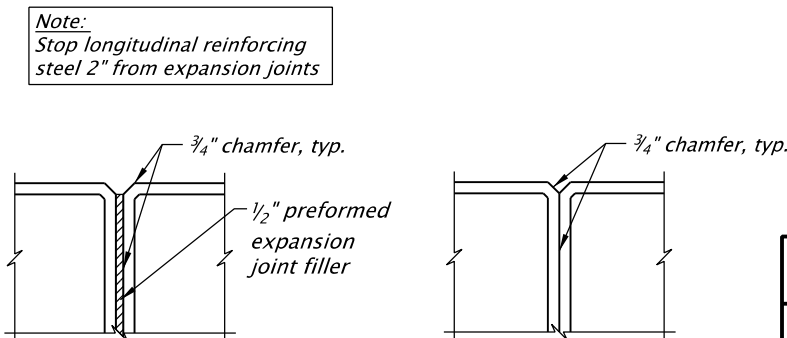
Coping Notes:
Stop longitudinal bars 2" clear of coping end, typ.

COPING DETAIL
No Scale



Note:
For details not shown of the pedestrian rail, see Dwg. BR246.

PEDESTRIAN RAIL CONNECTION DETAIL
No Scale



COPING EXPANSION JOINT DETAIL
No Scale

COPING CONTRACTION JOINT DETAIL
No Scale

SCALE WARNING
IF THIS SCALE LINE DOES NOT MEASURE ONE INCH, THEN DRAWING IS NOT TO SCALE

STRUCTURE NO.	00000
BDS DWG NO.	00000
CALC. BOOK	0000
HWY: 064	
M.P.: 11.2	
COUNTY	Clackamas
DATE	04/21

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
ADVANCE COPY SUBJECT TO CHANGE
 GLEN SLOCUM
 EXPIRES: 06/30/

DOWL www.dowl.com
 rtw_OR43_ES_45.36153/-122.60909
I-205: I-5 - OR213, PHASE 1 SEC.
 EAST PORTLAND FREEWAY
 CLACKAMAS COUNTY

Designer: Wyatt Dean, E.I. Reviewer: Peter G. Slocum, P.E., S.E.
 Drafter: Yuka Garzenelli Checker: Peter G. Slocum, P.E., S.E.

RETAINING WALLS - WALL A4 SHEET NO. GB403

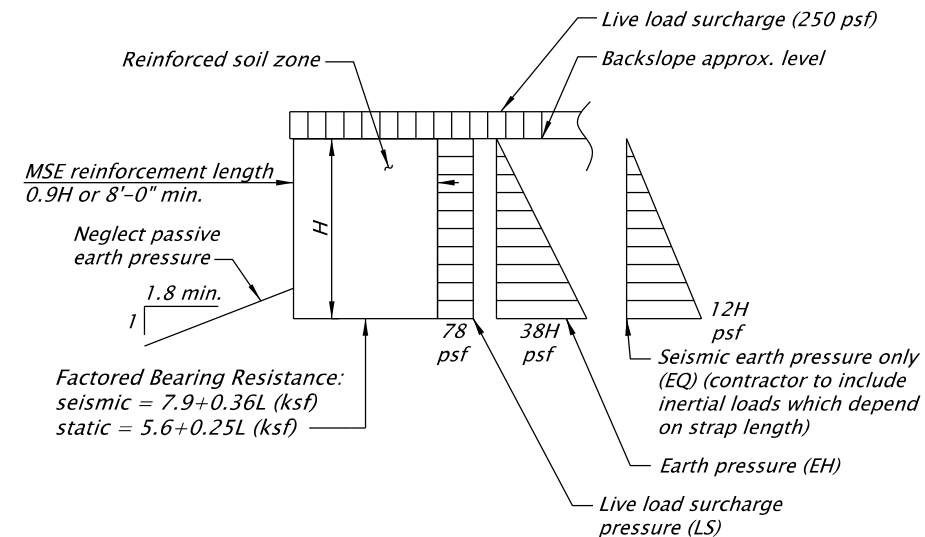
Base Plate Notes:

Provide base plates conforming to ASTM Specification A36.

Provide anchor rods conforming to ASTM F1554 Grade 55 and high strength epoxy.

Perform all welding according to the 2015 American Welding Society AWS D1.1.

Hot dip galvanize base plates, pipes, anchor rods and associated hardware after fabrication.



WALL LOADING CONDITIONS
No Scale