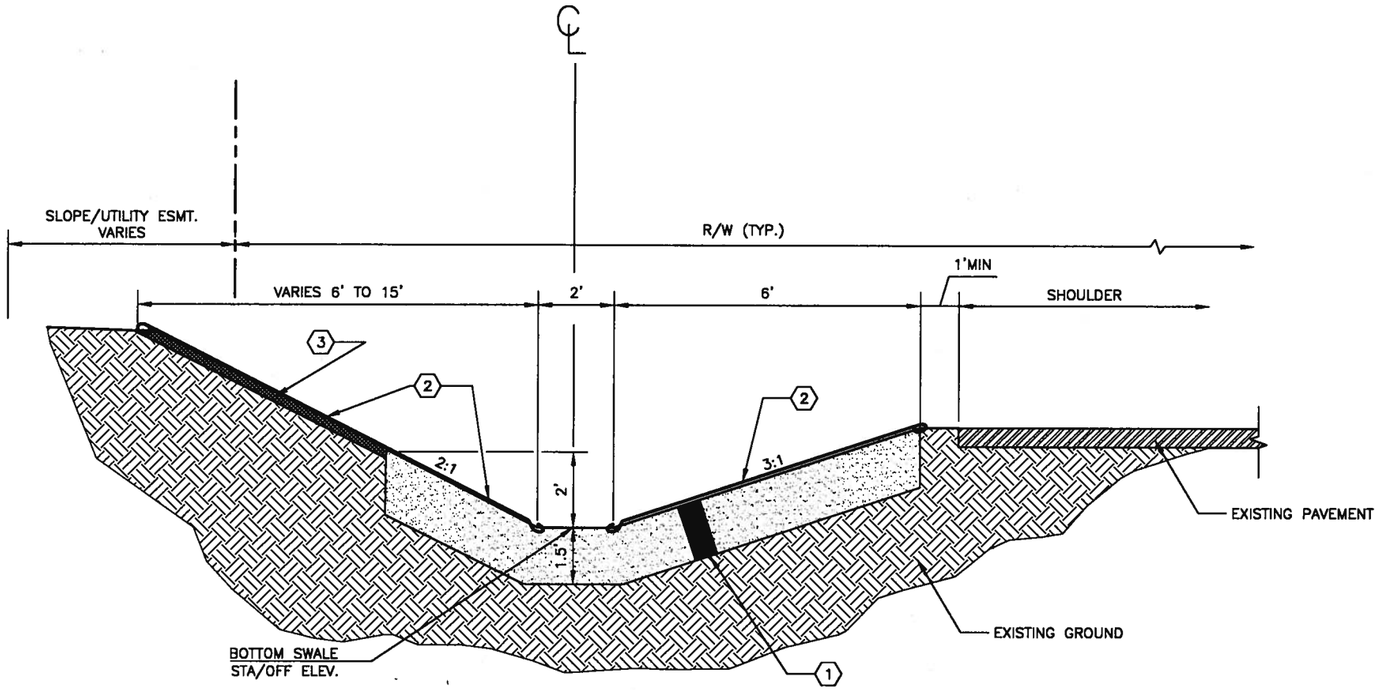
BIOFILTRATION SWALE



BIO-INFILTRATION SWALE

STA 79+30 TO 93+32
NTS

GENERAL NOTES

1. THE TREATMENT LINER SHALL MEET THE FOLLOWING SPECIFICATIONS:
   - MINIMUM 1.5' THICKNESS
   - DESIGN INFILTRATION RATE BETWEEN 1.0 IN./HR & 2.4 IN/HR.
   - PLANTED WITH APPROPRIATE MIX OF NATIVE AND/OR ADAPTED GRASSES SEE TABLE D.3.2.E
2. THE TREATMENT LINER MAY CONSIST OF AMENDED ONSITE SOIL OR BE AN IMPORTED MIX SUCH AS: THE SEATTLE PUBLIC UTILITIES BIORETENTION SOIL MIX, CEDAR GROVE BIORETENTION/RAIN GARDEN SOIL MIX AND THE ENGINEERED SOIL MIX FROM APPENDIX 2 OF THE LOW IMPACT DEVELOPMENT, TECHNICAL GUIDANCE MANUAL FOR PUGET SOUND. COMPACT TREATMENT LINER WITH TWO PASSES, USING A 200 LB. SOD ROLLER
3. BIOSWALE SEED MIX SHALL BE PLACED ON ALL DISTURBED AREAS PER WSDOT STANDARD SPECIFICATIONS 8-01.3(2)

CONSTRUCTION LEGEND

1. 1.5' MIN. TREATMENT LINER
2. EROSION CONTROL BLANKET (JUTE MATTING) ON SIDE SLOPES ONLY
3. 3" COMPOST TILLED TO A DEPTH OF 9" ON SIDE SLOPES WITHOUT TREATMENT LINER ONLY

Table D.3.2.E presents a mix recommended for bioswales and other intermittently wet areas. Sod shall generally not be used for bioswales because the seed mix is inappropriate for this application. Sod may be used for lining ditches to prevent erosion, but it will provide little water quality benefit during the wet season.

TABLE D.3.2.E BIOSWALE SEED MIX*

	% Weight	% Purity	% Germination
Tall or meadow fescue *Festuca arundinacea* or *Festuca elatior*	75-80	98	90
Seaside/Creeping bentgrass *Agrostis palustris*	10-15	92	85
Redtop bentgrass *Agrostis alba* or *Agrostis gigantea*	5-10	90	80

* Modified Briargreen, Inc. Hydroseeding Guide Wetlands Seed Mix

BIO SWALE ℄ POINTS
ELEVATION SCHEDULE

PNT #	STATION	OFFSET	BOTTOM SWALE ELEVATION
1	79+39.37	35.8 LT	597.91
2	79+50.00	35.0 LT	597.95
3	80+00.00	32.4 LT	598.18
4	80+50.00	30.1 LT	598.41
5	81+00.00	27.9 LT	598.64
6	81+50.00	25.0 LT	598.87
7	82+00.00	23.9 LT	598.10
8	82+50.00	23.4 LT	599.33
9	83+00.00	23.5 LT	599.56
10	83+50.00	23.0 LT	599.79
11	84+00.00	23.1 LT	600.02
12	84+50.00	23.1 LT	600.25
13	85+00.00	23.2 LT	600.48
14	85+50.00	24.0 LT	600.71
15	86+00.00	24.3 LT	600.94
16	86+50.00	23.7 LT	601.17

BIO SWALE ℄ POINTS
ELEVATION SCHEDULE

PNT #	STATION	OFFSET	BOTTOM SWALE ELEVATION
17	87+00.00	23.3 LT	601.40
18	87+50.00	23.5 LT	601.63
19	88+00.00	23.9 LT	601.86
20	88+50.00	24.3 LT	602.11
21	89+00.00	24.6 LT	602.42
22	89+50.00	24.9 LT	603.18
23	90+00.00	25.0 LT	603.88
24	90+50.00	25.0 LT	604.60
25	91+00.00	25.2 LT	605.46
26	91+50.00	25.2 LT	606.38
27	92+00.00	25.3 LT	607.30
28	92+50.00	25.3 LT	608.25
29	93+00.00	25.0 LT	609.16
30	93+27.86	24.8 LT	609.59

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK:		
SURVEYED:	J. EVANS	09/2009
SURVEY BASE MAP:	09048	09/2009
DESIGN ENTERED:	M. KARINEN	05/2012
DESIGNED	M. KARINEN	02/2012
CHECKED:	A. ANDREE	02/2012
SUPERVISOR:	N. POSEY	02/2012

NUM.	REVISION	BY	DATE

FINAL PLANS

FED. AID No. –
PROJECT No. 400309
SURVEY No. X-XX-X-XX
MAINTENANCE DIVISION No. X

MIKE L. O'NEIL STATE OF WASHINGTON 18523 REGISTERED PROFESSIONAL ENGINEER

KING COUNTY DEPT. OF TRANSPORTATION
HAROLD TANIGUCHI, DIRECTOR

SE SUMMIT-LANDSBURG ROAD STORMWATER RETROFIT
BIO-INFILTRATION SWALE
BIO-INFILTRATION SWALE DETAILS

King County

SHEET 11 OF 16 SHEETS

318-13 (11)

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