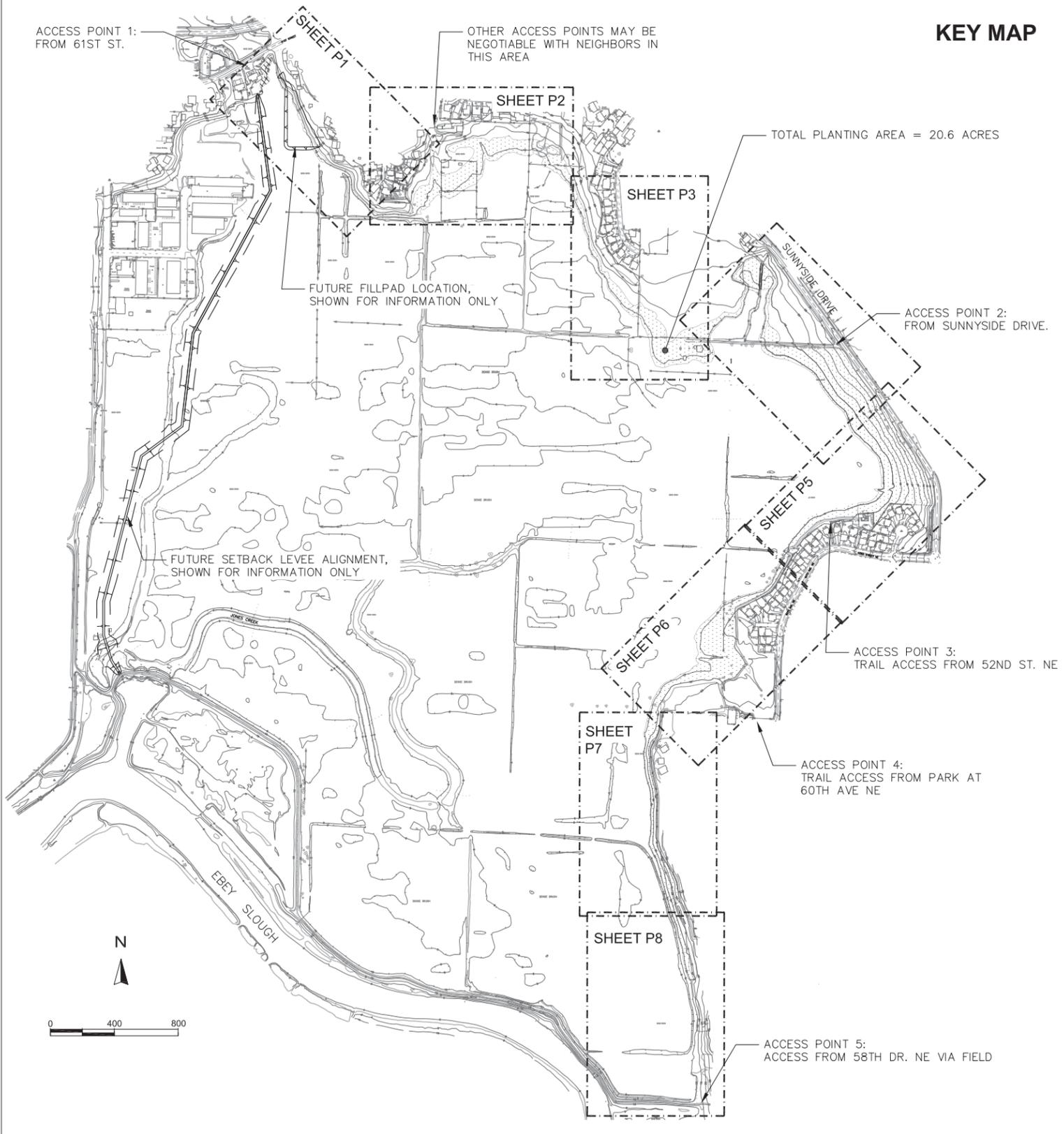


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QWULOOLT ESTUARY RESTORATION PERIMETER PLANTING PLAN

MARYSVILLE, WASHINGTON
REVIEW DRAFT



LOCATION MAP
MARYSVILLE N.T.S.

VICINITY MAP
N.T.S.

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER
2	PLANTING PLAN P1
3	PLANTING PLAN P2
4	PLANTING PLAN P3
5	PLANTING PLAN P4
6	PLANTING PLAN P5
7	PLANTING PLAN P6
8	PLANTING PLAN P7
9	PLANTING PLAN P8
10	PLANT QUANTITIES
11	PLANTING DETAILS AND NOTES

GENERAL NOTES:

1. VERTICAL DATUM = NAVD 88
2. HORIZONTAL DATUM = WASHINGTON STATE PLAN NORTH NAD 83, FEET.
3. BASEMAP DEVELOPED BY DUANE HARTMAN AND ASSOC. 2005.
4. PLANTING AREA AS SHOWN IS EITHER OWNED BY TULALIP TRIBES, CITY OF MARYSVILLE, OR IS COVERED BY A FLOWAGE EASEMENT ONTO PRIVATE PROPERTY. CONFIRM ALL ACCESS POINTS WITH TRIBES PRIOR TO MOBILIZATION.

ORIGINAL PREPARED AT 22" x 34"

ESA Adolfson
5309 Shilshole Ave. NW
Seattle, WA 98107
P: (206) 789-9658
F: (206) 789-9684

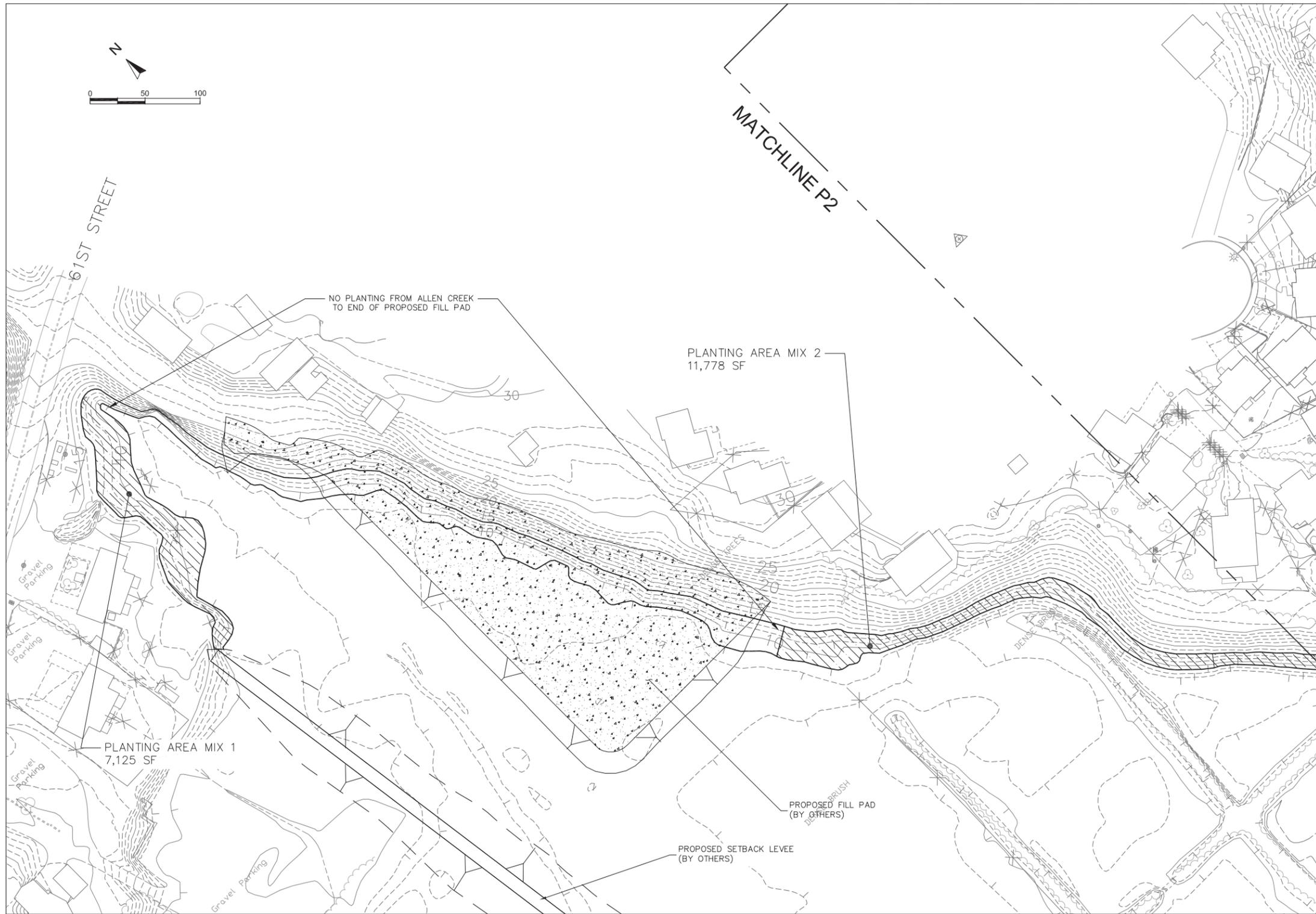
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SCALE	AS SHOWN
REVISION	DATE BY

PRELIMINARY DRAFT -
NOT FOR
CONSTRUCTION

COVER
PERIMETER PLANTING PLAN
QWULOOLT ESTUARY
RESTORATION PROJECT

PROJECT NUMBER	D209584.01
DRAWING NUMBER	C1
SHEET	1 OF 11

Path: G:\WATER RESOURCES\2005 Projects\25143_Tulalip Estuary Rest\CAD\internal_elements\planting_p File name: planting_50 Plot date: Jan 13, 2011 11:22:09am CAD User: swinter.



NOTES

1. SEE SHEET 10 FOR PLANT QUANTITIES.
2. SEE SHEET 11 FOR PLANTING DETAILS AND WEED CONTROL NOTES.
3. PLANTING AREA AS SHOWN IS EITHER OWNED BY TULALIP TRIBES, CITY OF MARYSVILLE, OR IS COVERED BY A FLOWAGE EASEMENT ONTO PRIVATE PROPERTY. CONFIRM ALL ACCESS POINTS WITH TRIBES PRIOR TO MOBILIZATION.

LEGEND

- EXISTING 5 FT. CONTOUR
- - - EXISTING 1 FT. CONTOUR
- PROPOSED PLANTING AREA LIMITS
- MIX PLANTING AREA
- RIPARIAN FOREST PLANTING AREA
- WET FOREST PLANTING AREA
- UPLAND FOREST PLANTING AREA

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PLANTING PLAN P1
PERIMETER PLANTING PLAN
QWULOOLT ESTUARY
RESTORATION PROJECT

PROJECT NUMBER	D209584.01
DRAWING NUMBER	P1
SHEET	2 OF 11

Path: G:\WATER RESOURCES\2005 Projects\25143_Tulalip Estuary Rest\CAD\internal_elements\planting_p File name: planting_50 Plot date: Jan 13, 2011-11:22:17am CAD User: swinter.



NOTES

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4. DO NOT BLOCK STORMWATER DRAINAGES OR EXISTING DITCHES. USE PLYWOOD OR SIMILAR FOR CROSSINGS TO ACCESS SITE. PLANT LIVESTAKES ALONG TOP OF BANK OF ANY DITCH/SWALE.

LEGEND

- EXISTING 5 FT. CONTOUR
- EXISTING 1 FT. CONTOUR
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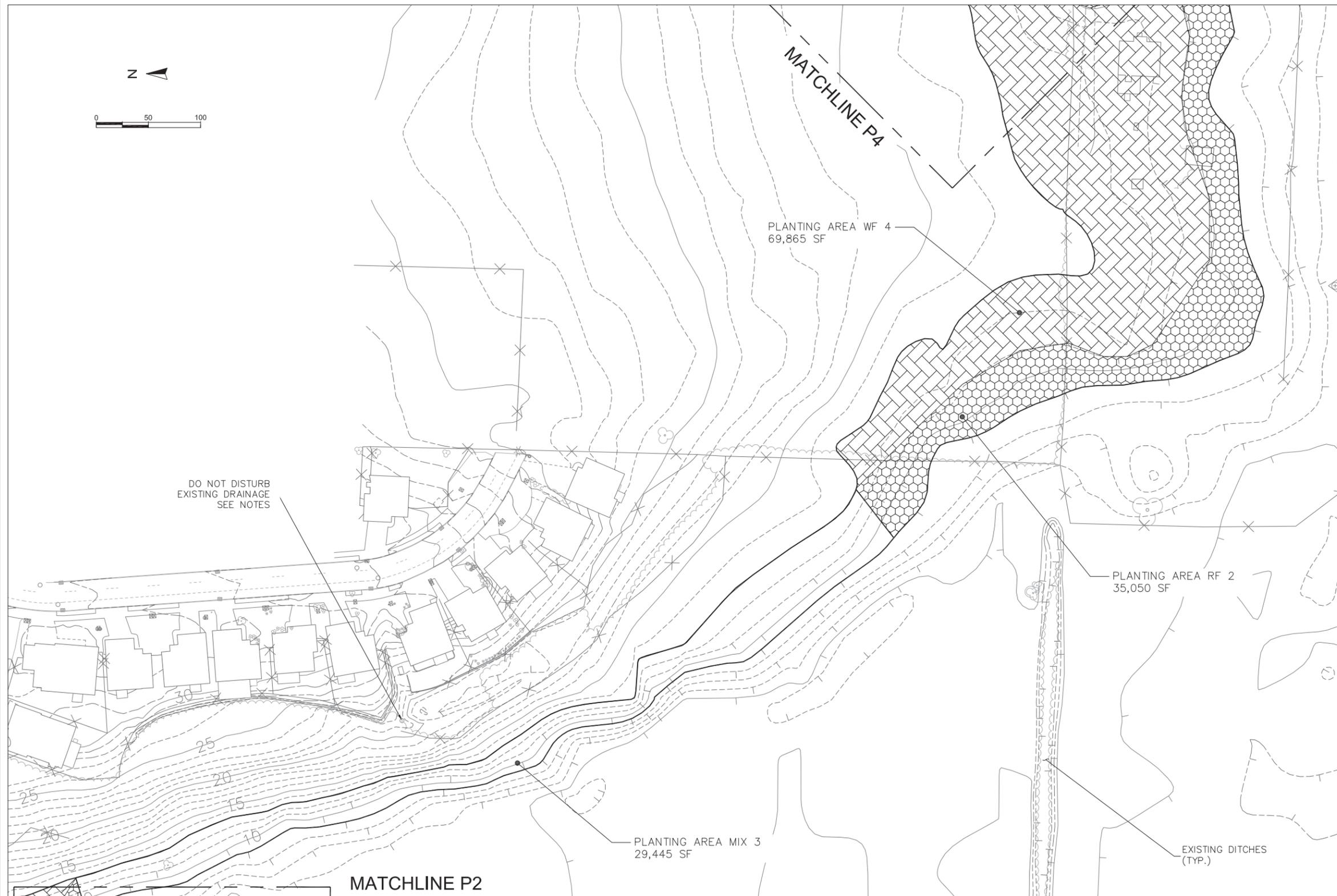
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PLAN VIEW P2

**PERIMETER PLANTING PLAN
QWULOOLT ESTUARY
RESTORATION PROJECT**

PROJECT NUMBER	D209584.01
DRAWING NUMBER	P2
SHEET	3 OF 11

Path: G:\WATER RESOURCES\2005 Projects\25143_Tulalip Estuary Rest\CAD\internal_elements\planting_p File name: planting_50 Plot date: Jan 13, 2011 11:22:24am CAD User: swinter.



NOTES

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LEGEND

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- - - EXISTING 1 FT. CONTOUR
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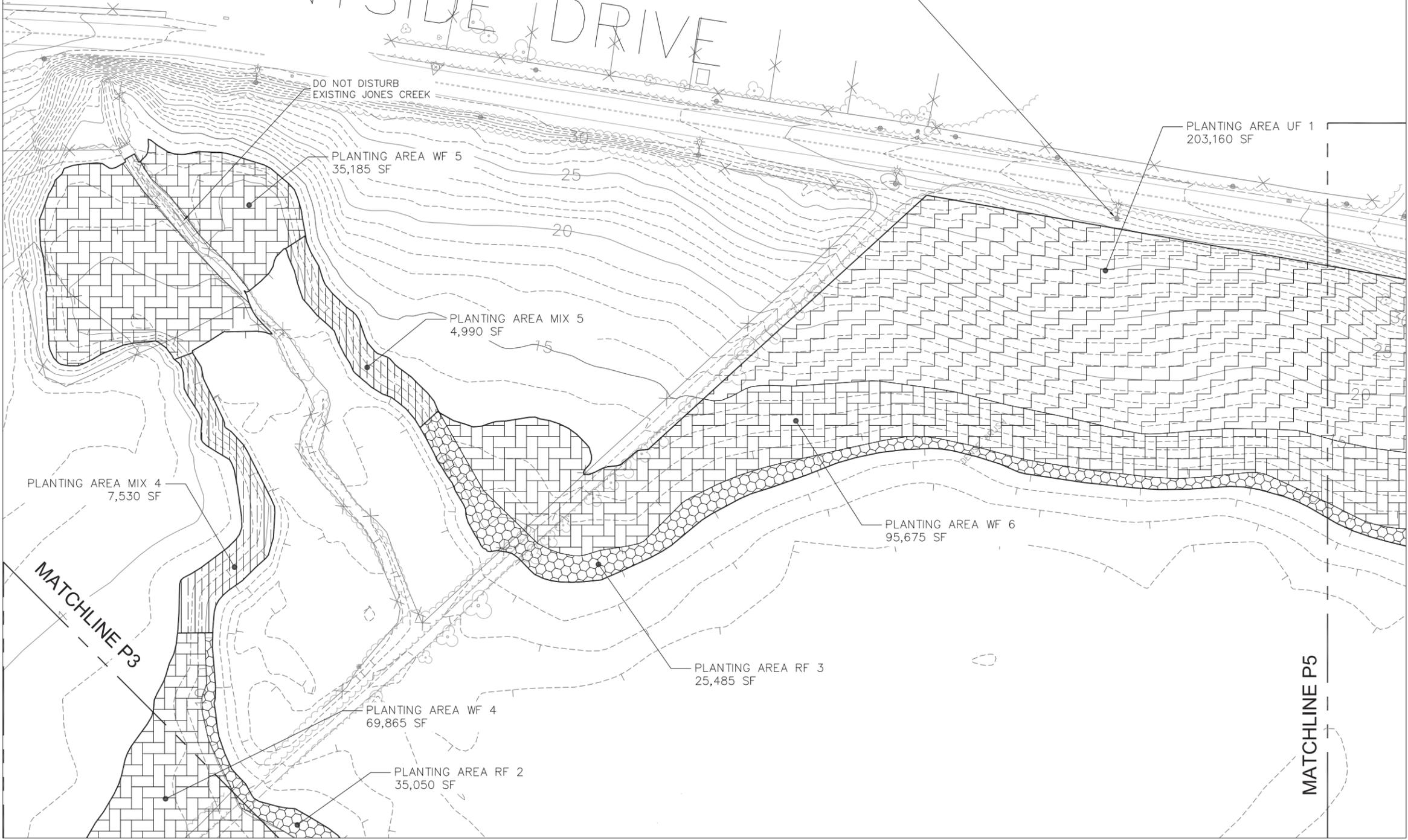
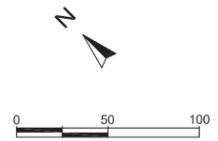
PLAN VIEW P3

**PERIMETER PLANTING PLAN
QWULOOLT ESTUARY
RESTORATION PROJECT**

PROJECT NUMBER	D209584.01
DRAWING NUMBER	P3
SHEET	4 OF 11

SUNNYSIDE DRIVE

DO NOT DISTURB EXISTING UTILITIES



NOTES

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**PRELIMINARY
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ORIGINAL PREPARED AT 22" x 34"

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PLAN VIEW P4

**PERIMETER PLANTING PLAN
QWULOOT ESTUARY
RESTORATION PROJECT**

PROJECT NUMBER	D209584.01
DRAWING NUMBER	P4
SHEET	5 OF 11

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NOTES

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- - - EXISTING 1 FT. CONTOUR
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- WET FOREST PLANTING AREA
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**PRELIMINARY
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ORIGINAL PREPARED AT 22" x 34"

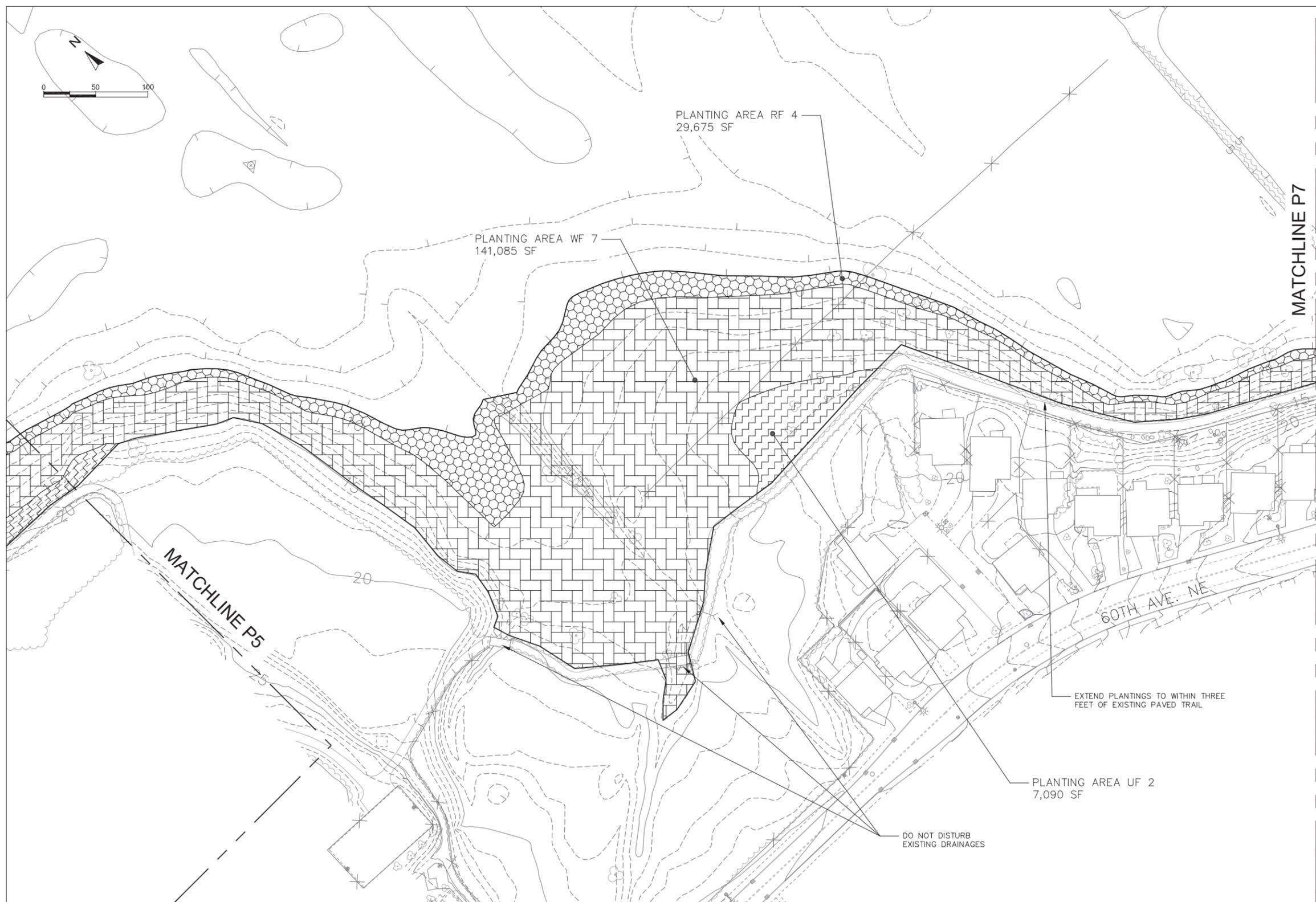
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PLAN VIEW P5
PERIMETER PLANTING PLAN
QWULOOLT ESTUARY
RESTORATION PROJECT

PROJECT NUMBER	D209584.01
DRAWING NUMBER	P5
SHEET	6 OF 11

Path: G:\WATER RESOURCES\2005 Projects\25143_Tulalip Estuary Rest\CAD\internal_elements\planting_p File name: planting_50 Plot date: Jan 13, 2011 11:23:03am CAD User: swinter.



NOTES

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ORIGINAL PREPARED AT 22" x 34"

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PLAN VIEW P6

**PERIMETER PLANTING PLAN
QWULOOLT ESTUARY
RESTORATION PROJECT**

PROJECT NUMBER	D209584.01
DRAWING NUMBER	P6
SHEET	7 OF 11

Path: G:\WATER RESOURCES\2005 Projects\25143_Tulalip Estuary Rest\CAD\internal_elements\planting_p File name: planting_50 Plot date: Jan 13, 2011 11:23:29am CAD User: swinter.



NOTES

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ORIGINAL PREPARED AT 22" x 34"

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SCALE	AS SHOWN
REVISION	DATE BY

PLAN VIEW P7

**PERIMETER PLANTING PLAN
QWULOOLT ESTUARY
RESTORATION PROJECT**

PROJECT NUMBER	D209584.01
DRAWING NUMBER	P7
SHEET	8 OF 11

Path: G:\WATER RESOURCES\2005 Projects\25143_Tulalip Estuary Rest\CAD\internal_elements\planting_p. Filename: planting_50 Plot date: Jan 13, 2011-11:23:37am CAD User: swinter.



NOTES

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NOT FOR CONSTRUCTION**

ORIGINAL PREPARED AT 22" x 34"

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PLAN VIEW P8

**PERIMETER PLANTING PLAN
QWULOOT ESTUARY
RESTORATION PROJECT**

PROJECT NUMBER	D209584.01
DRAWING NUMBER	P8
SHEET	9 OF 11

Path: G:\WATER RESOURCES\2005 Projects\25143_Tulalip Estuary Rest\CAD\internal_elements\planting_p File name: planting_details Plot date: Jan 13, 2011-12:11:55pm CAD User: swimmer.

Wet Forest Polygons													
Scientific Name	Common Name	Type	Spacing	WF 1	WF 2	WF 3	WF 4	WF 5	WF 6	WF 7	TOTAL	Special Instructions	
Trees													
<i>Alnus rubra</i>	Red alder	1 gal. cont.	9 ft. o.c.	86	202	264	431	217	591	871	2,663	Plant in small groups of 3 to 5.	
<i>Thuja plicata</i>	Western red cedar	1 gal. cont.	9 ft. o.c.	34	81	105	173	87	236	349	1,065	Plant individually or in pairs.	
<i>Picea sitchensis</i>	Sitka Spruce	1 gal. cont.	9 ft. o.c.	52	121	158	259	130	354	523	1,598	Plant individually.	
Total Trees				172	405	527	863	435	1,182	1,743	5,325		
Shrubs													
<i>Cornus sericea</i>	Red-osier dogwood	Livestake	1 ft o.c.	918	2,162	2,818	4,611	2,322	6,315	9,312	28,457	Linear arrangements along drainages or border of planting area.	
<i>Salix sitchensis</i>	Sitka Willow	Livestake	1 ft o.c.	946	2,227	2,903	4,751	2,393	6,506	9,594	29,320	Linear arrangements along drainages or border of planting area.	
<i>Salix lasiandra</i>	Pacific Willow	Livestake	1 ft o.c.	918	2,162	2,818	4,611	2,322	6,315	9,312	28,457	Linear arrangements along drainages or border of planting area.	
<i>Holodiscus discolor</i>	Oceanspray	1 gal. cont.	4 ft o.c.	87	205	267	437	220	598	882	2,695	Groups of 3-5	
<i>Crataegus douglasii</i>	Black Hawthorn	1 gal. cont.	4 ft o.c.	87	205	267	437	220	598	882	2,695	Groups of 3-5	
<i>Rosa pisocarpa</i>	Clustered rose	1 gal. cont.	4 ft o.c.	174	410	534	873	440	1,196	1,764	5,391	Groups of 3-5	
<i>Rosa nutkana</i>	Nootka rose	1 gal. cont.	4 ft o.c.	174	410	534	873	440	1,196	1,764	5,391	Groups of 3-5	
<i>Sambucus racemosa</i>	Red Elderberry	1 gal. cont.	4 ft o.c.	87	205	267	437	220	598	882	2,695	Individuals and pairs.	
<i>Symphoricarpos albus</i>	Snowberry	1 gal. cont.	4 ft o.c.	87	205	267	437	220	598	882	2,695	Groups of 3-5	
<i>Myrica gale</i>	Sweet Gale	1 gal. cont.	4 ft o.c.	87	205	267	437	220	598	882	2,695	Groups of 3-5	
<i>Physocarpus captiatus</i>	Pacific Ninebark	1 gal. cont.	4 ft o.c.	87	205	267	437	220	598	882	2,695	Groups of 3-5	
Total Shrubs				3,652	8,599	11,208	18,340	9,236	25,116	37,036	113,187		
Herbs													
<i>Fragaria chiloensis</i>	Coastal Strawberry	1 gal. cont.	8 ft o.c.	109	256	334	546	275	748	1,103	3,370	Plant in groups of 3-5.	
<i>Grindelia integrifolia</i>	Entire-leaved Gumweed	1 gal. cont.	8 ft o.c.	109	256	334	546	275	748	1,103	3,370	Plant in groups of 3-5.	
Total Herbs				217	512	667	1,092	550	1,496	2,206	6,741		
Notes: LS = Livestake BB - ball & burlap; o.c. - on center; ' - feet; " - inches													
Total Area (square feet)													
				13,910	32,755	42,695	69,865	35,185	95,675	141,085	431,170	Total 431,170 sf (9.9 acres)	

Riparian Forest Polygons										
Scientific Name	Common Name	Type	Spacing	RF 1	RF 2	RF 3	RF 4	TOTAL	Special Instructions	
Shrubs										
<i>Salix sitchensis</i>	Sitka Willow	Livestake	3 ft o.c.	2,470	1,558	1,133	1,319	6,480	Linear arrangements along drainages or border of planting area.	
<i>Salix hookeriana</i>	Hooker's Willow	Livestake	3 ft o.c.	2,470	1,558	1,133	1,319	6,480	Linear arrangements along drainages or border of planting area.	
<i>Myrica gale</i>	Sweet Gale	1 gal. cont.	3 ft o.c.	1,235	779	566	659	3,240	Groups of 3-5	
Total Shrubs				4,940	3,116	2,265	2,638	12,959		
Notes: LS = Livestake BB - ball & burlap; o.c. - on center; ' - feet; " - inches										
Total Area (square feet)										
				55,580	35,050	25,485	29,675		Total 145,790 sf (3.3 acres)	

Mix Polygons												
Scientific Name	Common Name	Type	Spacing	M1	M2	M3	M4	M5	M6	TOTAL	Special Instructions	
Trees												
<i>Picea sitchensis</i>	Sitka Spruce	1 gal. cont.	9 ft. o.c.	88	145	364	93	62	159	911		
Total Trees				88	145	364	93	62	159	911		
Shrubs												
<i>Cornus sericea</i>	Red-stemmed dogwood	Livestake	1 ft o.c.	428	707	1,767	452	299	775	4,427	Linear arrangements along drainages or border of planting area.	
<i>Salix sitchensis</i>	Sitka Willow	Livestake	1 ft o.c.	428	707	1,767	452	299	775	4,427	Linear arrangements along drainages or border of planting area.	
<i>Salix hookeriana</i>	Hooker's Willow	Livestake	1 ft o.c.	570	942	2,356	602	399	1,033	5,902	Linear arrangements along drainages or border of planting area.	
<i>Holodiscus discolor</i>	Oceanspray	1 gal. cont.	4 ft o.c.	89	147	368	94	62	161	922	Groups of 3-5	
<i>Rosa pisocarpa</i>	Clustered rose	1 gal. cont.	4 ft o.c.	134	221	552	141	94	242	1,384	Groups of 3-5	
<i>Rosa nutkana</i>	Nootka rose	1 gal. cont.	4 ft o.c.	134	221	552	141	94	242	1,384	Groups of 3-5	
<i>Symphoricarpos albus</i>	Snowberry	1 gal. cont.	4 ft o.c.	45	74	184	47	31	81	461	Groups of 3-5	
<i>Physocarpus captiatus</i>	Pacific Ninebark	1 gal. cont.	4 ft o.c.	45	74	184	47	31	81	461	Groups of 3-5	
Total Shrubs				1,870	3,092	7,730	1,977	1,310	3,389	19,368		
Herbs												
<i>Fragaria chiloensis</i>	Coastal Strawberry	1 gal. cont.	8 ft o.c.	56	92	230	59	39	101	577	Plant in groups of 3-5.	
<i>Grindelia integrifolia</i>	Entire-leaved Gumweed	1 gal. cont.	8 ft o.c.	56	92	230	59	39	101	577	Plant in groups of 3-5.	
Total Herbs				111	184	460	118	78	202	1,153		
Notes: LS = Livestake BB - ball & burlap; o.c. - on center; ' - feet; " - inches												
Total Area (square feet)												
				7,125	11,778	29,445	7,530	4,990	12,910	73,778	Total 73,778 sf (1.7 acres)	

Upland Forest Polygons										
Scientific Name	Common Name	Type	Spacing	UF 1	UF 2	UF 3	TOTAL	Special Instructions		
Trees										
<i>Alnus rubra</i>	Red alder	1 gal. cont.	9 ft. o.c.	1,506	53	277	1,835	Plant in small groups of 3 to 5.		
<i>Pinus contorta</i>	Shorepine	1 gal. cont.	9 ft. o.c.	1,004	35	185	1,224	Plant individually.		
Total Trees				2,509	88	462	3,059			
Shrubs										
<i>Ribes sanguineum</i>	Red Flowering Currant	1 gal. cont.	1 ft o.c.	2,540	89	468	3,096	Groups of 3-5		
<i>Rosa gymnocarpa</i>	Ballhip Rose	1 gal. cont.	4 ft o.c.	1,905	66	351	2,322	Groups of 3-5		
<i>Sambucus racemosa</i>	Red Elderberry	1 gal. cont.	4 ft o.c.	1,905	66	351	2,322	Individuals and pairs.		
<i>Rubus parviflorus</i>	Thimbleberry	1 gal. cont.	4 ft o.c.	2,540	89	468	3,096	Individuals and pairs.		
<i>Amelanchier alnifolia</i>	Serviceberry	1 gal. cont.	4 ft o.c.	1,270	44	234	1,548	Individuals and pairs.		
<i>Philadelphus lewisii</i>	Mock-Orange	1 gal. cont.	4 ft o.c.	1,270	44	234	1,548	Individuals and pairs.		
<i>Gaultheria shallon</i>	Salal	1 gal. cont.	4 ft o.c.	1,270	44	234	1,548	Groups of 3-5		
Total Shrubs				12,700	443	2,339	15,482			
Notes: o.c. - on center; ' - feet; " - inches										
Total Area (square feet)										
				203,160	7,090	37,410	247,660	Total 247,660 sf (5.7 acres)		

ORIGINAL PREPARED AT 22" x 34"



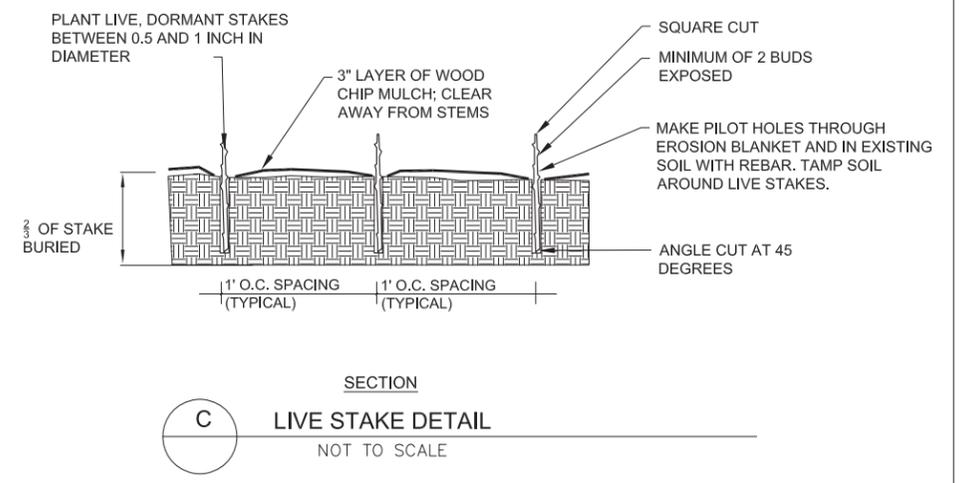
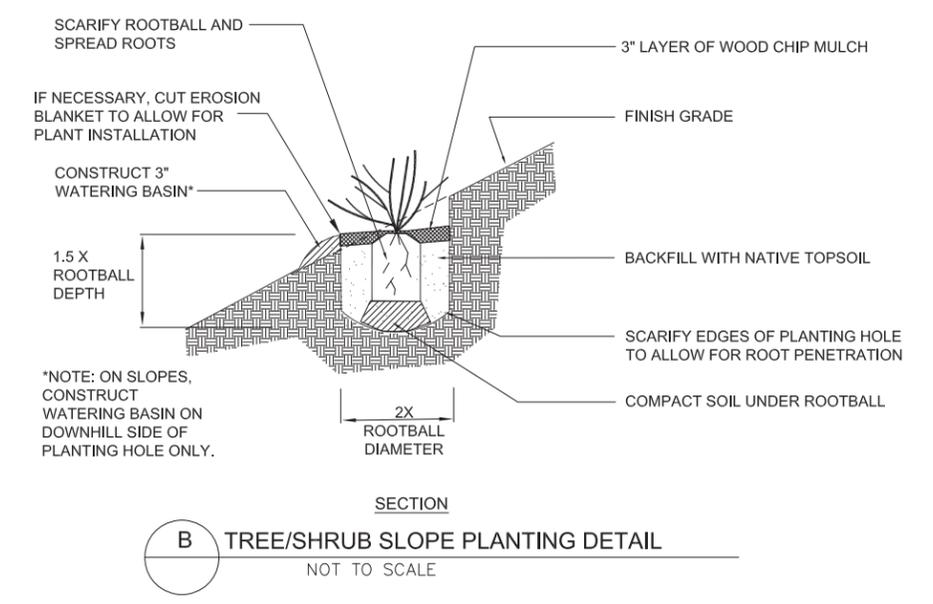
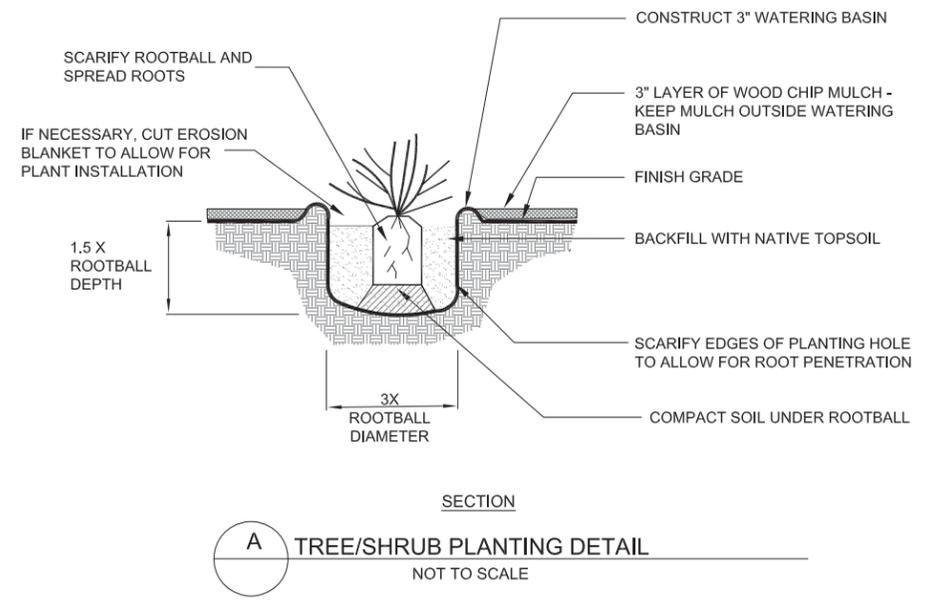
DESIGNED BY	SW
DRAWN BY	SW
CHECKED BY	ME
APPROVED BY	
DATE PRINTED	JAN. 2011
SCALE	AS SHOWN
REVISION	DATE BY

PLANT QUANTITIES

**PERIMETER PLANTING PLAN
QWUOLOLT ESTUARY
RESTORATION PROJECT**

PROJECT NUMBER	D209584.01
DRAWING NUMBER	D1
SHEET	10 OF 11

Path: G:\WATER RESOURCES\2005 Projects\25143_Tulalip Estuary Rest\CAD\internal_elements\planting_p. Filename: planting_details. Plot date: Jan 13, 2011-12:04pm CAD User: swimmer.



PLANTING NOTES

1. INSTALL PLANTS PER DETAILS THIS SHEET.
2. SPECIES PLACEMENT WITHIN PLANTING POLYGONS MAY BE ADJUSTED FOR SITE CONDITIONS
3. IMPLEMENT WEED CONTROL PRIOR TO PLANT INSTALLATION, SEE NOTES THIS SHEET.
4. INSTALL PLANTS IN STRAIGHT ROWS TO ALLOW FUTURE MAINTENANCE (E.G., MOWING/STRING TRIMMING).
5. PLANT INSTALLATION SHALL INCLUDE 1 YEAR WARRANTY.
6. INCLUDE WOOD CHIP MULCH IN UPLAND PLANTING AREAS.

WEED CONTROL NOTES

1. WEED CONTROL TO CONSIST OF MECHANICAL MEANS ONLY.
2. NO PESTICIDE USE PERMITTED WITHIN PRIOR APPROVAL FROM OWNER.
3. LOP AND SCATTER DOWNED LIMBS.
4. DO NOT REMOVE EXISTING TREES.
5. INSTALLER TO SUBMIT WEED CONTROL PLAN WITH TREATMENT TYPES AND ZONES IDENTIFIED ON A MAP.

TEMPORARY SEDIMENT AND EROSION CONTROL NOTES

1. INSTALLER MINIMAL SOIL DISTURBANCE IS ANTICIPATED FOR THIS EFFORT.
2. INSTALL WEED CONTROL BLANKET (700 SERIES COIR CLOTH) USING WOODEN STAKES AT 4 FT. ON-CENTER SPACING ON ANY EXPOSED SLOPES STEEPER THAN 2H:1V AFTER WEED CONTROL.

ORIGINAL PREPARED AT 22" x 34"



DESIGNED BY	SW
DRAWN BY	SW
CHECKED BY	ME
APPROVED BY	
DATE PRINTED	JAN 2011
SCALE	AS SHOWN
REVISION	DATE BY

PLANTING DETAILS AND NOTES

PERIMETER PLANTING PLAN
QWULOOLT ESTUARY
RESTORATION PROJECT

PROJECT NUMBER	D209584.01
DRAWING NUMBER	D2
SHEET	11 OF 11