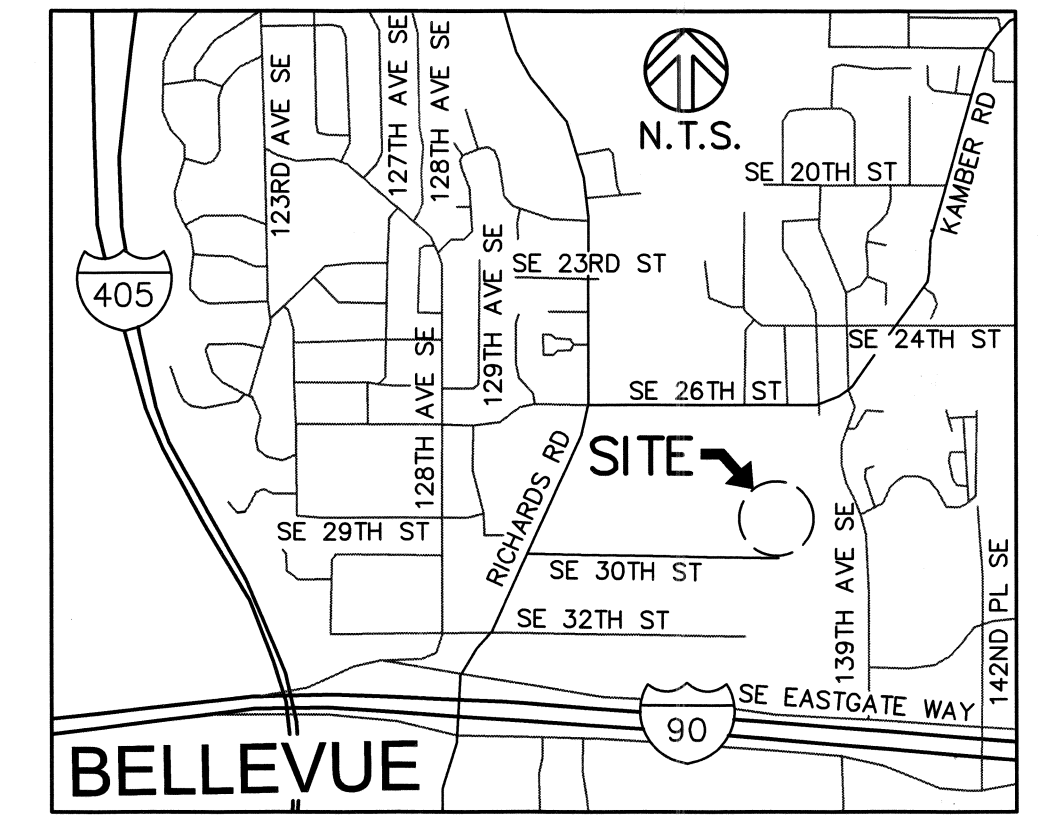




**PUGET
SOUND
ENERGY**

RICHARDS CREEK 230kV SUBSTATION

SECTION 10, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M.
CITY OF BELLEVUE, KING COUNTY, WASHINGTON



SURVEY NOTES:

- PURPOSE OF THIS SURVEY THIS SURVEY REPRESENTS EXISTING CONDITIONS AT THE SITE OF THE PROPOSED RICHARDS CREEK SUBSTATION. THE SURVEY WAS PERFORMED IN JANUARY, 2015.
- BASIS OF BEARING WASHINGTON COORDINATE SYSTEM, NORTH ZONE, NAD-83/07, EXPRESSED IN US SURVEY FEET.

VERTICAL DATUM NAVD-88
ALL VERTICAL ELEVATIONS ARE BASED ON NAVD88 DATUM FROM GPS OBSERVATIONS USING THE WASHINGTON STATE REFERENCE NETWORK.
- BENCHMARKS

APS #8 - HUB FND NORTH=215796.04 EAST=1313420.82 ELEV=102.98	APS #2773 - MON FND NORTH=216381.56 EAST=1313836.47 ELEV=127.78
APS #2432 - REBAR/CAP FND 5/8 INCH NORTH=215785.62 EAST=1313771.17 ELEV=129.05	APS #2832 - SPIKE SET W/CAP NORTH=216204.66 EAST=1313518.66 ELEV=101.70
- METHODOLOGY THIS SURVEY WAS BASED ON A RTK VRS SURVEY (USING TRIMBLE R8 UNITS AND CORRECTIONS USING THE WASHINGTON STATE REFERENCE NETWORK) IN COMBINATION WITH A CONVENTIONAL SURVEY (USING LEICA 1200 SERIES 1" - 5" TOTAL STATION). THIS NETWORK MEETS OR EXCEEDS THE ACCURACY STANDARDS SET BY WAC 332-130-090.
- PROPERTY LINES THIS IS NOT A BOUNDARY SURVEY. BOUNDARIES OF ADJOINING PROPERTIES ARE APPROXIMATE, BASED ON THE BEST AVAILABLE INFORMATION AND ARE SHOWN FOR GRAPHIC PURPOSES ONLY.
- MONUMENTATION VISITATION ALL SURVEY MONUMENTS AND OTHER SURVEY MARKERS SHOWN HEREON WERE OCCUPIED OR OBSERVED DURING THE MONTHS OF NOVEMBER AND DECEMBER 2014.
- ENCUMBRANCES THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT, ACCORDINGLY, ANY EASEMENTS OR RESTRICTIONS OF RECORD WHICH MAY BE REVEALED IN A TITLE REPORT HAVE NOT BEEN INCLUDED HEREON.
- UNDERGROUND UTILITIES THE LOCATION OF SUBSURFACE UTILITIES ARE BASED ON OBSERVED UTILITY PAINT MARKS ON THE SURFACE, AND SET THERE BY OTHERS.
- CONTOUR INTERVAL 2 FOOT
- SUBSURFACE CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS PART OF THIS SURVEY.
- 1-800-424-5555 MUST BE CALLED NOT LESS THAN 48 HOURS BEFORE BEGINNING EXCAVATION WHERE ANY UNDERGROUND UTILITIES MAY BE LOCATED. FAILURE TO DO SO COULD MEAN BEARING SUBSTANTIAL REPAIR COSTS. (UP TO THREE TIMES THE COST OF REPAIRS TO THE SERVICE).

LEGAL DESCRIPTION:

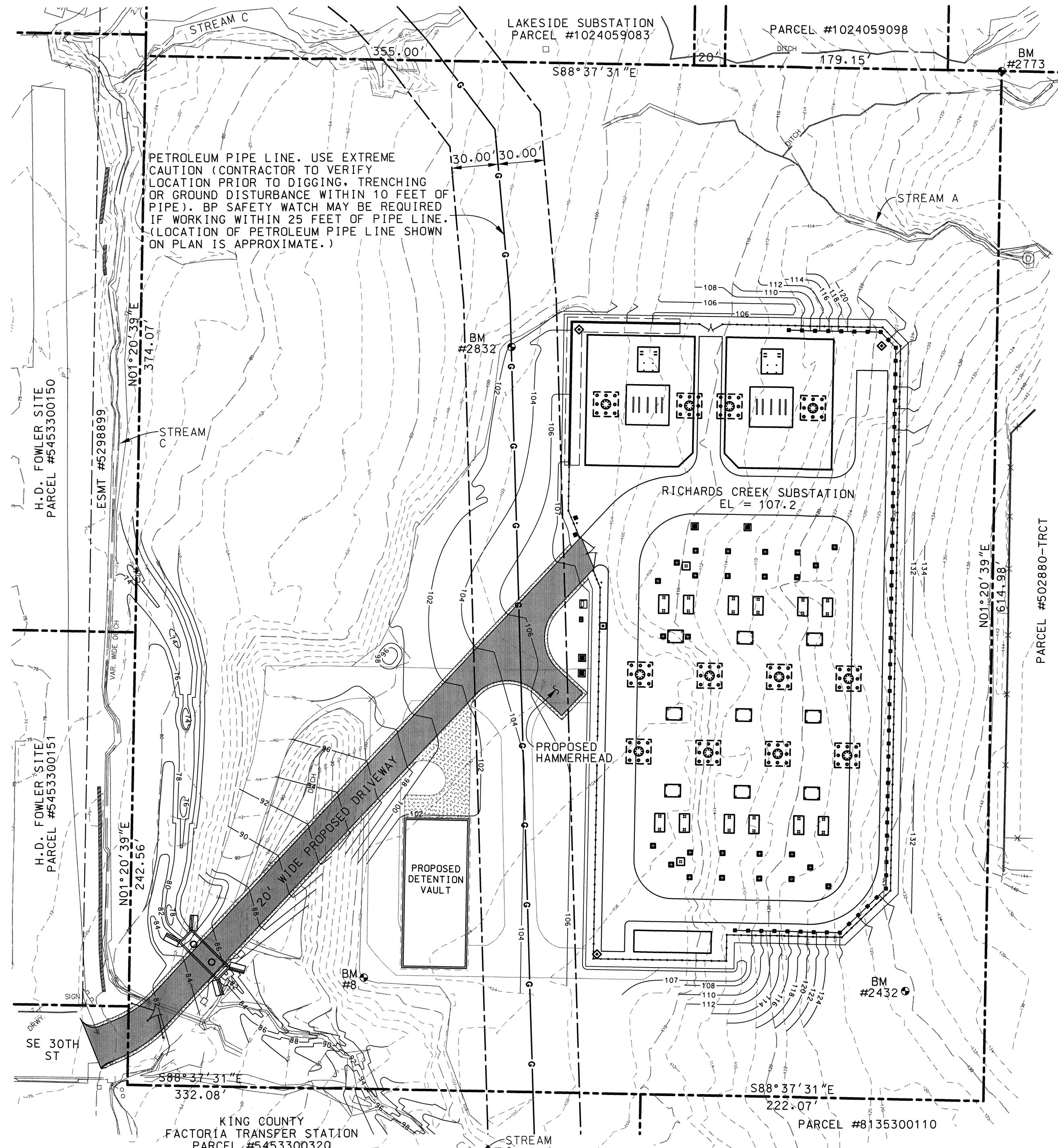
PARCEL C (TAX PARCEL 102405-9130): THAT PORTION OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 10, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:
 BEGINNING AT THE NORTHWEST CORNER OF SAID SUBDIVISION;
 THENCE SOUTHERLY ALONG THE WESTERLY MARGIN OF SAID SUBDIVISION 664.98 FEET, MORE OR LESS, TO THE NORTHWEST CORNER OF A TRACT CONVEYED TO KING COUNTY UNDER RECORDING NUMBER 5589770;
 THENCE EASTERLY ALONG THE NORTH MARGIN OF SAID KING COUNTY TRACT, EXTENDED EASTERLY, A DISTANCE OF 554.152 FEET;
 THENCE NORTHERLY PARALLEL TO THE WESTERLY MARGIN OF SAID SOUTHEAST QUARTER OF THE NORTHWEST QUARTER 664.98 FEET, MORE OR LESS, TO THE NORTH MARGIN OF SAID SUBDIVISION;
 THENCE WESTERLY ALONG SAID NORTH MARGIN 554.152 FEET, MORE OR LESS, TO THE TRUE POINT OF BEGINNING.

SITE INFORMATION:

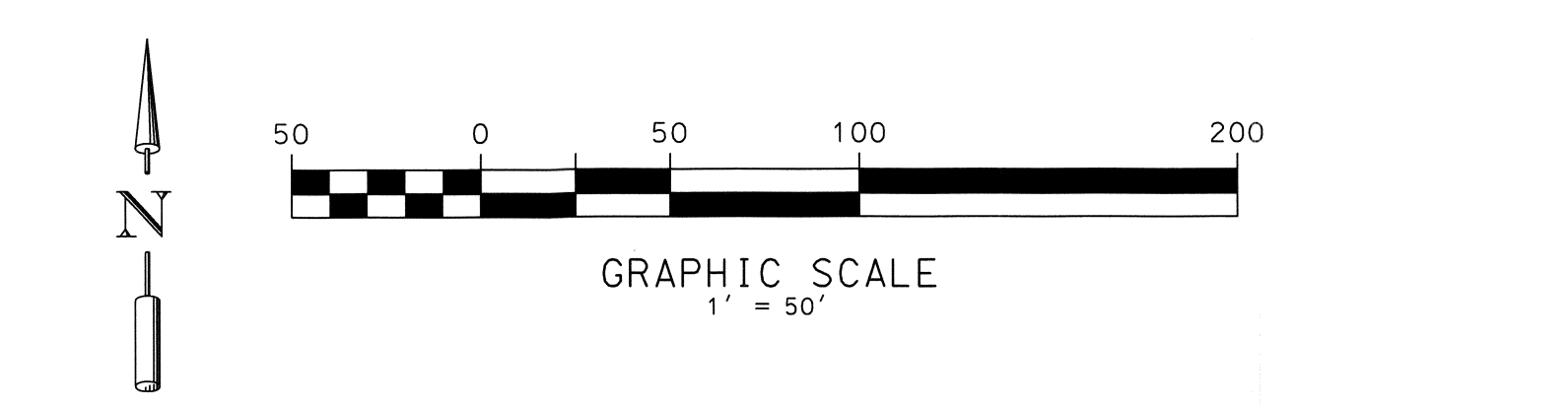
PROPERTY OWNER: PUGET SOUND ENERGY
 PARCEL NO: 102405-9130
 ADDRESS: 13600 SE 30TH ST
 BELLEVUE, WA 98005
 ZONING: LI (LIGHT INDUSTRIAL)
 LANDSCAPE SCREENING: 15' TYPE 1
 COB UDEA #: TBD
 COB UTILITY GRID #: 1-11

NOTES:

- CONTRACTOR SHALL HAVE A COPY OF THE 2017 CITY OF BELLEVUE UTILITY DEPARTMENT ENGINEERING STANDARDS AND UTILITY DEVELOPER EXTENSION AGREEMENT ON SITE AT ALL TIMES.
- CRITICAL AREAS (WETLAND AND STREAM) ARE DEPICTED ON GRADING PLAN (D-18166, SHT 1).
- NOTIFY BP PETROLEUM PRIOR TO ANY WORK.



AREA PLAN



PSE ENGINEERING CONTACTS			
355 110TH AVE NE, BELLEVUE WA, 98004			
GROUP	NAME	PHONE	EMAIL
PROJECT MANAGEMENT	MOLLY REED	425-462-3933	molly.reed@pse.com
ELECTRICAL	MIKE WOOD	425-647-1921	michael.wood@pse.com
CIVIL	SCOTT KIM	425-457-9866	scott.kim@pse.com
CONSTRUCTION MANAGEMENT	CODY SPENCE	425-456-2586	cody.spence@pse.com
CONTROLS	DAN MORMAN	425-456-2392	daniel.morman@pse.com
PERMITTING	BRAD STRAUCH	425-456-2556	bradley.strauch@pse.com

DRAWING LIST:

DRAWING NO:	SHEET NO:	TITLE:
D-19550	1	SITE LAYOUT AND GENERAL NOTES
D-19551	1	TOPOGRAPHIC AND BOUNDARY SURVEY (PARCEL C) #102405-9130
D-19551	2	TOPOGRAPHIC AND BOUNDARY SURVEY (PARCEL C) #102405-9130
D-19552	1	PRELIMINARY SITE PLAN B
D-19552	2	PRELIMINARY SITE PLAN B
D-19553	1	PRELIMINARY CLEARING, DEMOLITION AND TREE REMOVAL PLAN
D-19554	1	PRELIMINARY GRADING PLAN
D-19554	2	PRELIMINARY FENCING AND STATION DRIVEWAY LAYOUT PLAN
D-19554	3	PRELIMINARY SITE SECTION
D-19554	4	PRELIMINARY SITE SECTION
D-19554	5	PRELIMINARY ENTRANCE DRIVEWAY PLAN AND PROFILE
D-19554	6	PRELIMINARY ENTRANCE DRIVEWAY DETAIL
D-19554	7	PRELIMINARY GRADING SECTIONS AND DETAILS
D-19554	8	PRELIMINARY FENCING SECTIONS AND DETAILS
D-19555	1	LANDSCAPE PLAN 2
D-19555	2	LANDSCAPE DETAILS
D-18172	1	COVER SHEET
D-18172	2	GENERAL NOTES, TESC & QUANTITIES
D-18172	3	CONSTRUCTION SEQUENCE
D-18172	4	EXISTING CONDITIONS
D-18172	5	CHANNEL GRADING PLAN
D-18172	6	TESC & DEMOLITION PLAN
D-18172	7	TESC & DEMOLITION NOTES & DETAILS
D-18172	8	PROPOSED PLAN
D-18172	9	CULVERT DESIGN
D-18172	10	CULVERT & UTILITY CROSS-SECTION
D-18172	11	STATIONING & CROSS-SECTIONS
D-18172	12	STREAM CROSS-SECTIONS (1 OF 3)
D-18172	13	STREAM CROSS-SECTIONS (2 OF 3)
D-18172	14	STREAM CROSS-SECTIONS (3 OF 3) & PROFILE
D-18172	15	LARGE WOODY DEBRIS DETAILS
D-18172	16	LARGE WOODY DEBRIS ANCHOR DETAILS
D-18172	17	PLANTING PLAN (1 OF 3)
D-18172	18	PLANTING PLAN (2 OF 3)
D-18172	19	PLANTING PLAN (3 OF 3)
D-18172	20	PLANTING TYPICALS & SCHEDULE
D-18172	21	PLANTING NOTES & DETAILS (1 OF 2)
D-18172	22	PLANTING NOTES & DETAILS (2 OF 2)

REVISION DESCRIPTION: WO NUMBER: 111019489		SITE LAYOUT AND GENERAL NOTES RICHARDS CREEK SUBSTATION	
CUP AND CALUP SUBMITTAL		DRAWING NO: D-19550	
CAD	J. Nelson	DATE (M/D/Y)	8/17/17
ENGINEER	S. Kim	DATE (M/D/Y)	08/17/17
REVIEWED	/ /	SCALE: 1" = 50'-0"	CLASS: SITE
APPROVED	J. Henry	DATE (M/D/Y)	08/17/17
PUGET SOUND ENERGY		SUBSTATION ENGINEERING DEPARTMENT	
DRAWING NO: D-19550		REV NO: 0	
SHEET: 1 OF 1		FILE NO:	
CADD NO: \$SDGN\$\$		CODE: RIC	



WITHIN THE SW 1/4 OF THE NW 1/4 OF SECTION 10, T24N, R05E, BELLEVUE, WASHINGTON

LEGAL DESCRIPTIONS - PSE PROPERTIES

PARCEL A (TAX PARCEL 102405-9083):

THE WEST 260 FEET OF THE NORTH 230 FEET OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER;
EXCEPT PORTION THEREOF LYING WITHIN SOUTHEAST 26TH STREET;
AND WEST 355 FEET OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF NORTHWEST QUARTER;
EXCEPT THE NORTH 230 FEET THEREOF;

ALL IN SECTION 10, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON.

PARCEL B (TAX PARCEL 102405-9097):

THE EAST 20 FEET OF THE WEST 375 FEET OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER;
EXCEPT THE NORTH 230 FEET THEREOF; OF SECTION 10, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON.

PARCEL C (TAX PARCEL (TAX PARCEL 102405-9130):

THAT PORTION OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 10, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF SAID SUBDIVISION;
THENCE SOUTHERLY ALONG THE WESTERLY MARGIN OF SAID SUBDIVISION 664.98 FEET, MORE OR LESS, TO THE NORTHWEST CORNER OF A TRACT CONVEYED TO KING COUNTY UNDER RECORDING NUMBER 5589770;

THENCE EASTERLY ALONG THE NORTH MARGIN OF SAID KING COUNTY TRACT, EXTENDED EASTERLY, A DISTANCE OF 554.152 FEET;

THENCE NORTHERLY PARALLEL TO THE WESTERLY MARGIN OF SAID SOUTHEAST QUARTER OF THE NORTHWEST QUARTER 664.98 FEET, MORE OR LESS, TO THE NORTH MARGIN OF SAID SUBDIVISION;

THENCE WESTERLY ALONG SAID NORTH MARGIN 554.152 FEET, MORE OR LESS, TO THE TRUE POINT OF BEGINNING;

*EXCEPT THE SOUTH 50 FEET THEREOF DEEDED TO THE CITY OF BELLEVUE UNDER RECORDING NUMBER 0600150136.

*SINCE THIS LEGAL DESCRIPTION WAS CREATED THE SOUTH 50 FEET THEREOF DEEDED TO THE CITY OF BELLEVUE HAS REVERTED BACK TO PSE OWNERSHIP AS PER THE "NOTICE OF TERMINATION OF DEED OF DEDICATION", KING COUNTY RECORDING NUMBER 20151029000707.

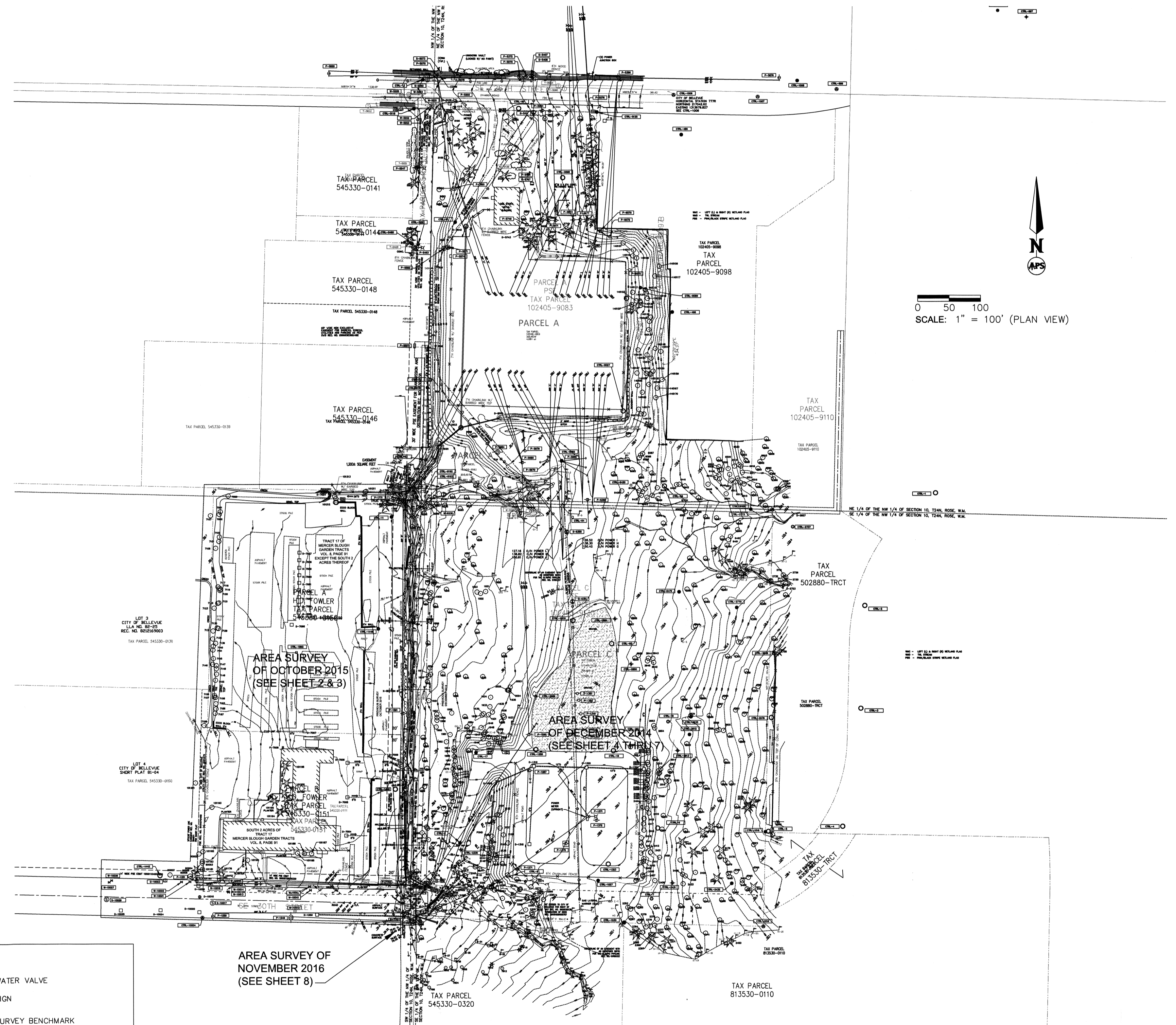
LEGAL DESCRIPTIONS - H.D. FOWLER PROPERTIES

PARCEL A (TAX PARCEL 545330-0150):

TRACT 17, MERCER SLOUGH GARDEN TRACTS, ACCORDING TO THE PLAT RECORDED IN VOLUME 8 OF PLATS, PAGE 91, IN KING COUNTY, WASHINGTON;
EXCEPT THE SOUTH 2 ACRES THEREOF;
TOGETHER WITH AN EASEMENT FOR INGRESS, EGRESS AND UTILITIES PURPOSES AS CREATED UNDER RECORDING NO. 5370143.

PARCEL B (TAX PARCEL 545330-0151):

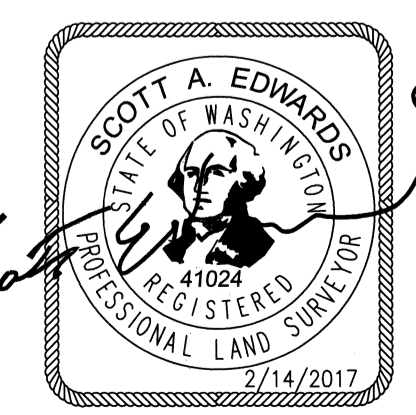
THE SOUTH 2 ACRES OF TRACT 17, MERCER SLOUGH GARDEN TRACTS, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 8 OF PLATS, PAGE 91, IN KING COUNTY, WASHINGTON;
EXCEPT THE SOUTH 17.5 FEET AS CONVEYED BY DEED RECORDED UNDER RECORDING NUMBER 7103310534, IN KING COUNTY, WASHINGTON, FOR SOUTHEAST 30TH STREET.



0 50 100
SCALE: 1" = 100' (PLAN VIEW)



	DITCH LINE		SECTION LINE		GROUND SPOT ELEVATION		WATER VALVE
	GRAVELLED AREA		1/16TH SECTION LINE		DECIDUOUS TREE W/ REFERENCE NUMBER		SIGN
	ASPHALT PAVEMENT		CONTOUR LINE (MINOR)		CONIFEROUS TREE W/ REFERENCE NUMBER		SURVEY BENCHMARK W/ REFERENCE NUMBER
	FENCE LINE		CONTOUR LINE (MAJOR)		TRANSMISSION POLE W/ REFERENCE NUMBER		SURVEY WOOD HUB
	CONC. ECO BLOCKS		NEW WETLAND FLAG (WMA-RIGHT BLUE/WHITE)		NEW WETLAND FLAG "DP-1"		SURVEY SET WOOD HUB
	POND		NEW WETLAND FLAG (WMA-LEFT BLUE/WHITE)		NEW WETLAND FLAG "TMC-L2R FLAG"		SURVEY FOUND REBAR AND CAP
	ROCKERY WALL		NEW WETLAND FLAG		NEW WETLAND FLAG "MCC-L2R FLAG"		SURVEY IRON PIPE
	BUILDING		EDGE OF VEGETATION		NEW WETLAND FLAG "L2R FLAG"		SURVEY SET NAIL
	PROPERTY LINE		STORM CULVERT AND REFERENCE NUMBER		NEW WETLAND FLAG "DP-2"		PLANTER
	NEW X-SECTION LINE		BOLLARDS				MAILBOXES



APS SURVEY & MAPPING
 13221 S.E. 26TH STREET, SUITE A
 BELLEVUE, WASHINGTON 98005
 TEL (425) 746-3200
 FAX (425) 746-3342

LABOR CHARGE DESCRIPTIONS	ORDER NUMBER	JOINT FACILITIES ARRANGEMENTS - OTHER UTIL.	PRIOR LINE NAME:
TRANSMISSION CONSTRUCTION			SURVEYOR/DATE:
TRANSMISSION REMOVAL		J.F.N. NO.	EASEMENT:
TRANSMISSION EXPENSE			DISTRICT OPER:
			COUNTY:
			MAPPED:
CURRENT REVISION DESCRIPTION:		PERMIT & FRAN.:	
12/7/16 - UPDATED ADDED OLYMPIC PIPELINE EASEMENTS, SHEET SETUP, AND TITLE		T R Sect	
2/14/17 - ADDED WETLAND FLAGS & PROPOSED EASEMENTST		PSE Map	
TSG Map		MAPPING 2014-2016	
APPROVAL	DATE (M/D/Y)	DRAWING NO	
CADD/DRAFT	MAGG	D-19551	
SURVEYED BY	SAE	REV NO	
CHKD/APRVD	SAE	0	
FOREMAN		DRAWING NO	
LOG OUT	J. HENCKY 08/17/17	D-19551	
		SHEET 01 OF 02	
		MICROFILMED: FILE NO:	
		CODE:	

REV DATE DESCRIPTION

WITHIN THE NW 1/4 OF SECTION 10, TOWNSHIP 24 NORTH, RANGE 05 EAST, W.M., IN KING COUNTY, WASHINGTON

POWER STRUCTURE TABLE - (PARCEL C)

Table with columns: REF., TREE DESC., DIA. (INCHES). Lists various power structures including transmission poles, power poles, and insulators with their respective reference numbers and descriptions.

TREE TABLE - (PARCEL C)

Table with columns: REF., TREE DESC., DIA. (INCHES). Lists various trees including Alder, Maple, Poplar, Cedar, and Madrona with their respective reference numbers and diameters.

SURVEY CONTROL MONUMENTS TABLE - (PARCEL C)

Table with columns: REF., TREE DESC., DIA. (INCHES). Lists various survey control monuments including rebar/cap sets, spikes, and monuments with their respective reference numbers and descriptions.

STORM DRAIN TABLE (PARCEL C)

Table with columns: REF., TREE DESC., DIA. (INCHES). Lists storm drain structures including catch basins, manholes, and culverts with their respective reference numbers and descriptions.

WATER STRUCTURE TABLE (PARCEL C)

Table with columns: REF., TREE DESC., DIA. (INCHES). Lists water structures including well heads, valves, and hydrants with their respective reference numbers and descriptions.

GAS TABLE (PARCEL C)

Table with columns: REF., TREE DESC., DIA. (INCHES). Lists gas structures including cathodic stations and valves with their respective reference numbers and descriptions.

MISCELLANEOUS TABLE (PARCEL C)

Table with columns: REF., TREE DESC., DIA. (INCHES). Lists miscellaneous structures including manholes, valves, and other utility markers with their respective reference numbers and descriptions.

LEGAL DESCRIPTIONS, GENERAL NOTES - (REFER TO SHEET 1 OF 2) SURVEY CONTROL TABLE FOR PARCEL C - (REFER TO THIS SHEET) UTILITIES TABLE FOR PARCEL C - (REFER TO THIS SHEET)

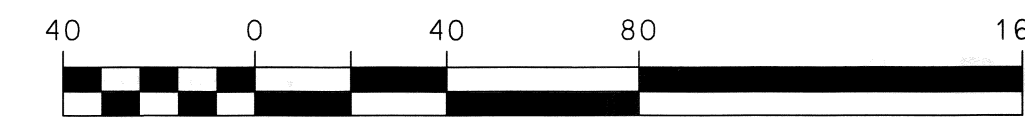


Project information block including revision description, WO number, date, and logos for Richards Creek Substation Mapping 2014-2016, Puget Sound Energy, and Scott A. Edwards Professional Land Surveyor.

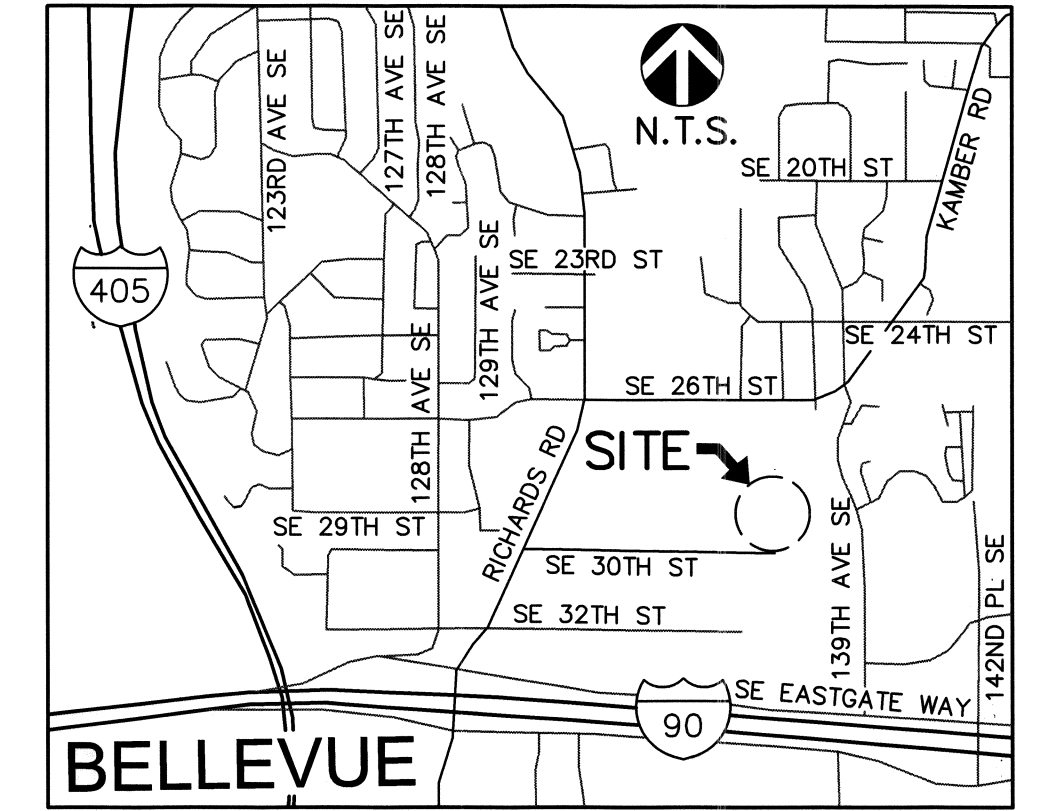
Logos for Scott A. Edwards Professional Land Surveyor, VOSB, and APS Survey & Mapping, along with contact information for the surveying firm.

SECTION 10, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M.
CITY OF BELLEVUE, KING COUNTY, WASHINGTON

MATCH LINE - SEE SHEET 2



GRAPHIC SCALE
1" = 40'



VICINITY MAP

LEGAL DESCRIPTION:

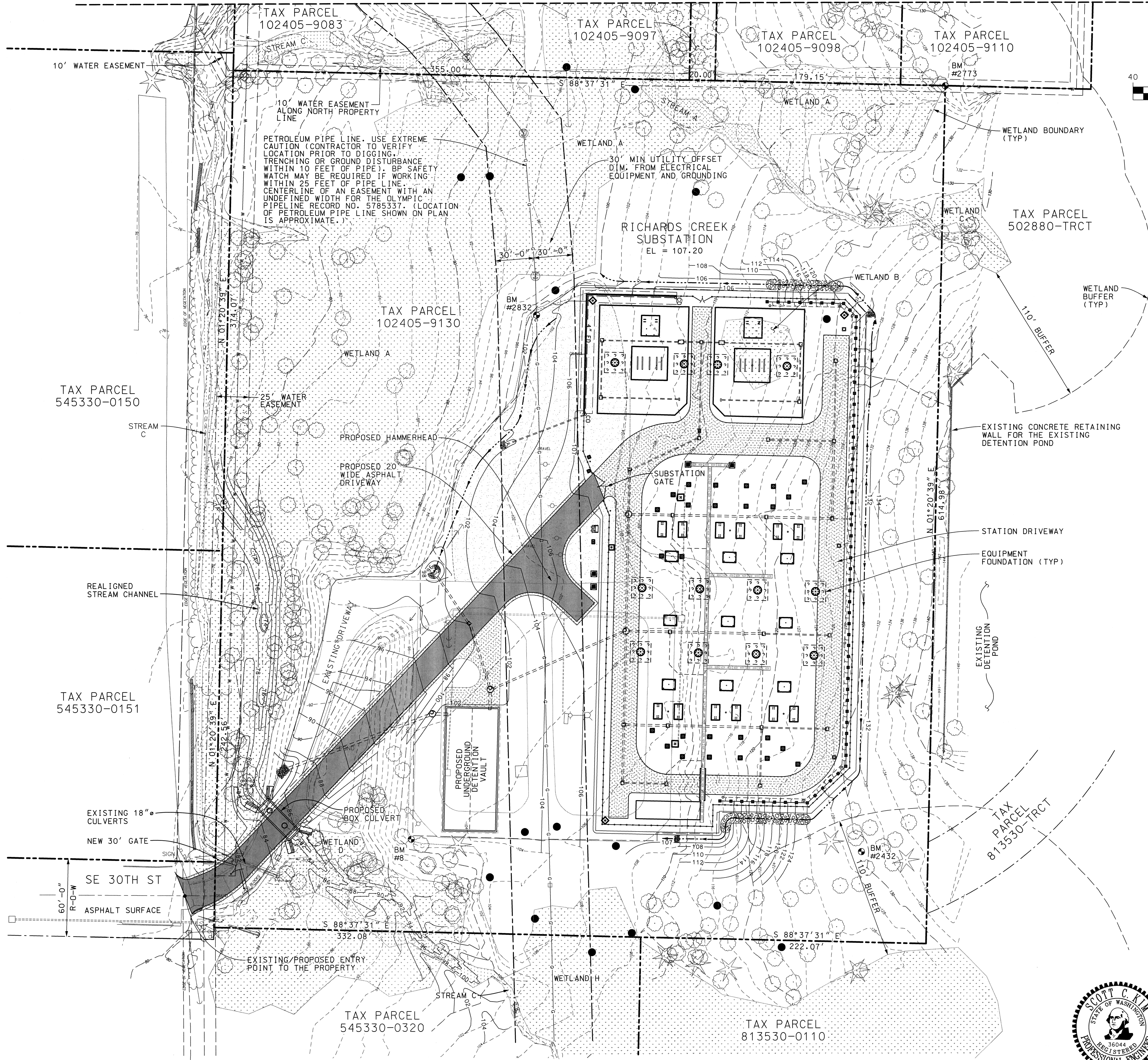
PARCEL C:
THAT PORTION OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 10, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:
BEGINNING AT THE NORTHWEST CORNER OF SAID SUBDIVISION;
THENCE SOUTHERLY ALONG THE WESTERLY MARGIN OF SAID SUBDIVISION 664.98 FEET, MORE OR LESS, TO THE NORTHWEST CORNER OF A TRACT CONVEYED TO KING COUNTY UNDER RECORDING NUMBER 5589770;
THENCE EASTERLY ALONG THE NORTH MARGIN OF SAID KING COUNTY TRACT, EXTENDED EASTERLY, A DISTANCE OF 554.152 FEET;
THENCE NORTHERLY PARALLEL TO THE WESTERLY MARGIN OF SAID SOUTHEAST QUARTER OF THE NORTHWEST QUARTER 664.98 FEET, MORE OR LESS, TO THE NORTH MARGIN OF SAID SUBDIVISION;
THENCE WESTERLY ALONG SAID NORTH MARGIN 554.152 FEET, MORE OR LESS, TO THE TRUE POINT OF BEGINNING.

SITE INFORMATION:

PROPERTY OWNER: PUGET SOUND ENERGY
PROJECT CONTACT: MOLLY REED
PHONE NO.: 425-462-3933
EMAIL: MOLLY.REED@PSE.COM
PARCEL NO: 102405-9130
ADDRESS: 13600 SE 30TH ST
BELLEVUE, WA 98005
ZONING: LI (LIGHT INDUSTRIAL)
LANDSCAPE SCREENING: LANDSCAPE TYPE 1A
COB UDEA #: TBD
COB UTILITY GRID #: 1-11
PROPERTY SIZE: 8.46 ACRES
TOTAL PROJECT SITE AREA: 4.0 ACRES
TOTAL IMPERVIOUS AREA: 1.1 ACRES
TOTAL PERVIOUS AREA: 2.9 ACRES

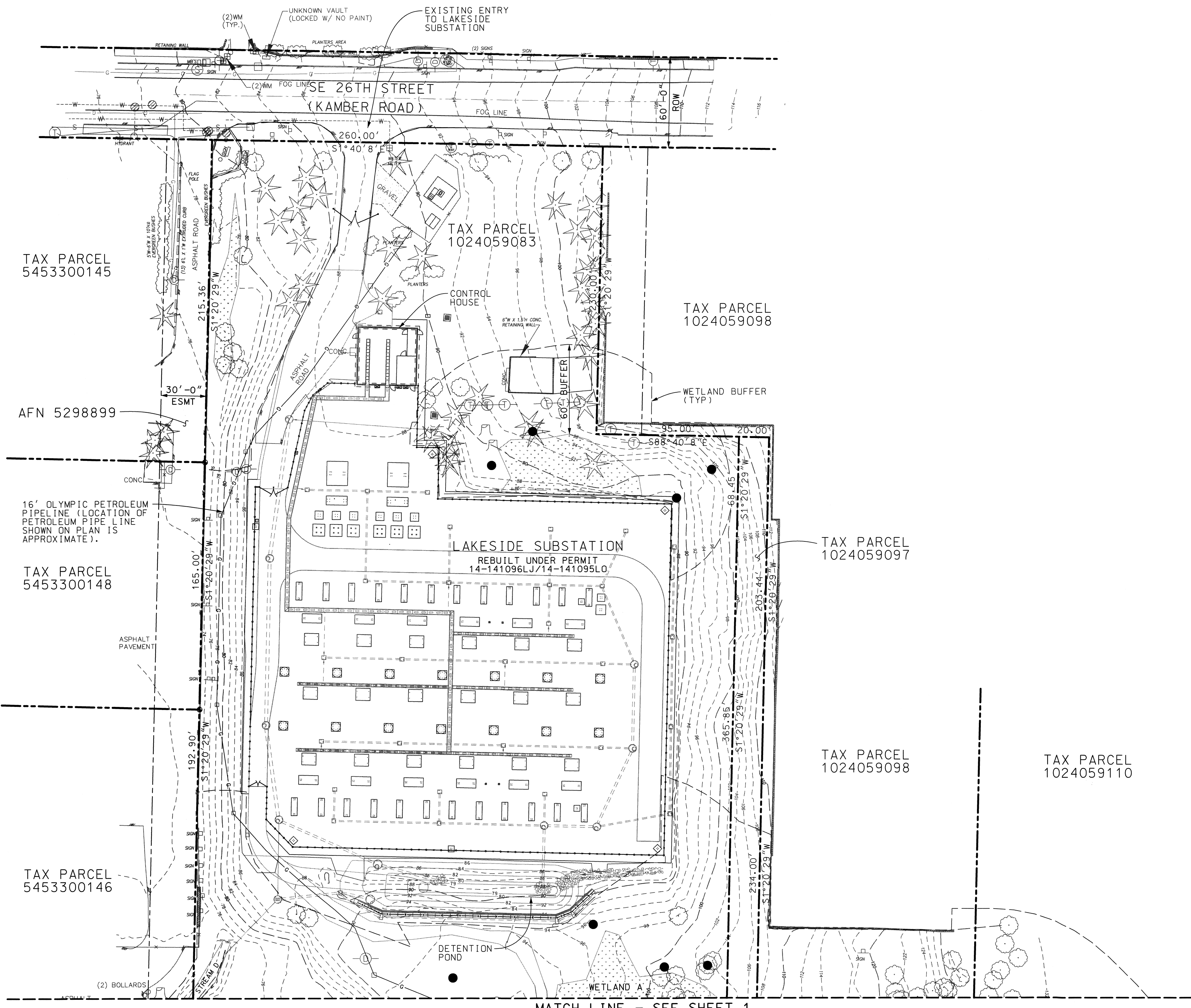
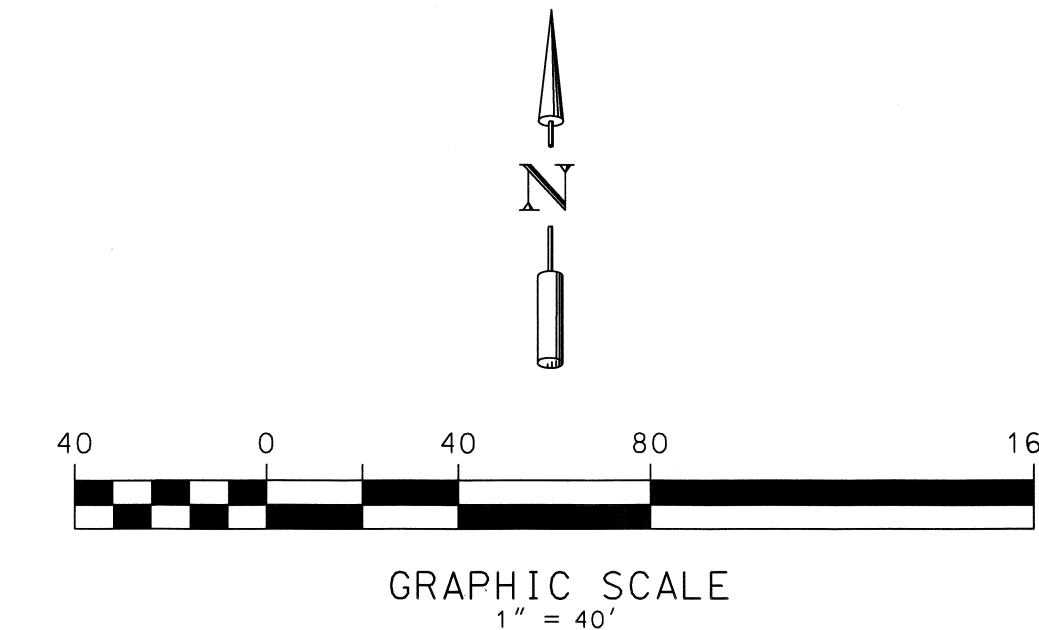
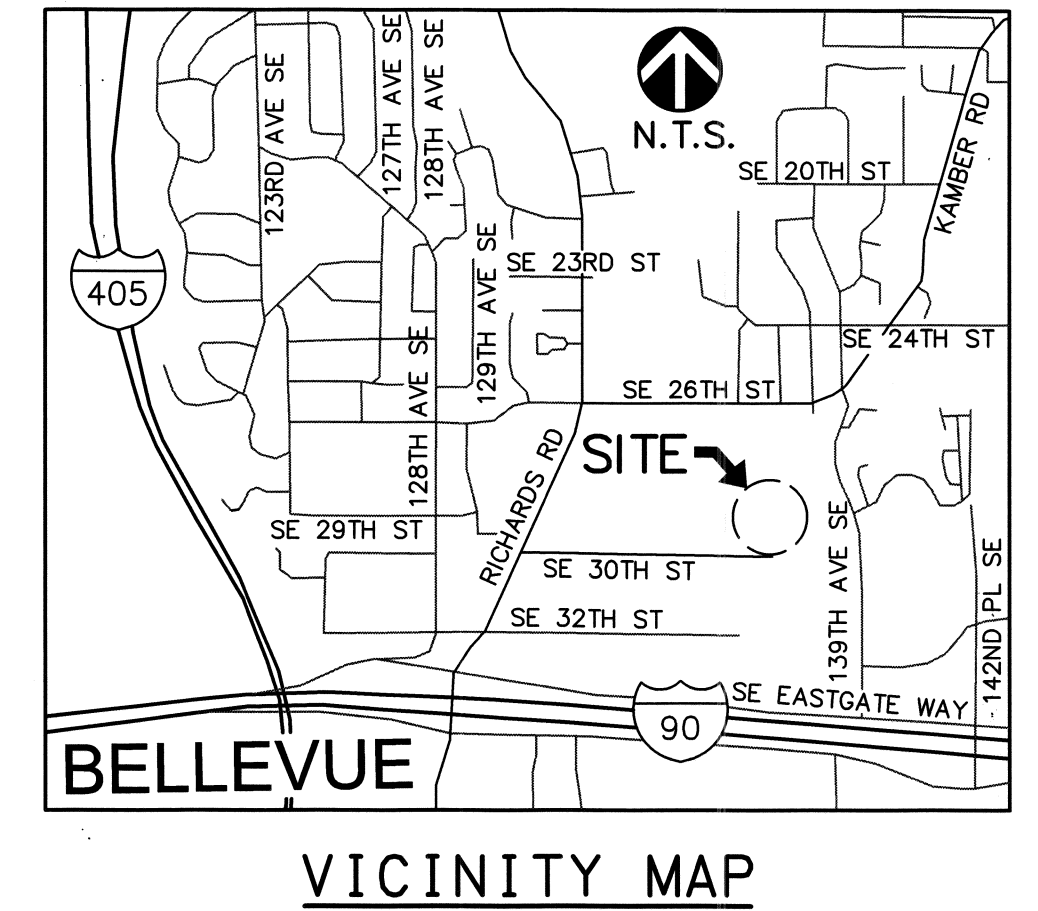
LEGEND

- PROPERTY LINE
- - - EXISTING CONTOURS
- PROPOSED CONTOURS
- WETLAND BUFFER
- FENCE
- SOLDIER PILE WALL
- PROPOSED DRAINAGE PIPE
- EXISTING DRAINAGE PIPE
- PROPOSED DRAINAGE DITCH
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN, TYPE 1
- ⊙ PROPOSED CATCH BASIN, TYPE 2
- PROPOSED GATE VALVE
- PROPOSED FOUNDATION
- PROPOSED VAULT
- ▨ PROPOSED STATION DRIVEWAY (GRAVEL)
- ▩ PROPOSED ACCESS DRIVEWAY (ASPHALT)
- PROPOSED TRANSMISSION POLE
- SURVEY BENCHMARK W/REFERENCE NUMBER
- PROPOSED CABLE TRENCH
- ⊕ EXISTING YARD LIGHT
- ⊕ EXISTING WATER VALVE



REVISION DESCRIPTION: WO NUMBER: 111019489		<p align="center">PRELIMINARY SITE PLAN B RICHARDS CREEK SUBSTATION</p>		DRAWING NO		REV NO
CUP AND CALUP SUBMITTAL				D-19552		0
CAD	J. Nelson	DATE (M/D/Y)	8/22/17		SUBSTATION ENGINEERING DEPARTMENT	SHEET: 1 OF 2
ENGINEER						
REVIEWED						
APPROVED	J. Henry	DATE (M/D/Y)	10/22/17	SCALE: 1" = 40'-0"	CLASS: SITE	FILE NO:
		CADD NO: \$\$\$GN\$\$\$				CODE:

SECTION 10, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M.
CITY OF BELLEVUE, KING COUNTY, WASHINGTON



LEGAL DESCRIPTION:

PARCEL A:
THE WEST 260 FEET OF THE NORTH 230 FEET OF THE SOUTHWEST QUARTER
OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER;
EXCEPT PORTION THEREOF LYING WITHIN SOUTHEAST 26TH STREET;
AND WEST 355 FEET OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER
OF THE NORTHWEST QUARTER;
EXCEPT THE NORTH 230 FEET THEREOF;
ALL IN SECTION 10, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN
KING COUNTY, WASHINGTON.

SITE INFORMATION:

SEE SHEET 1

LEGEND

- PROPERTY LINE
- - - - - EXISTING CONTOURS
- - - - - WETLAND BUFFER
- - - - - SUBSTATION FENCE
- - - - - FENCE
- - - - - EXISTING RETAINING WALL
- - - - - EXISTING DRAINAGE PIPE
- - - - - EXISTING DRAINAGE DITCH
- EXISTING CATCH BASIN, TYPE 1
- ⊗ EXISTING CATCH BASIN, TYPE 2
- ⊗ EXISTING WATER VALVE
- EXISTING FOUNDATION
- EXISTING VAULT
- PROPOSED TRANSMISSION POLE
- EXISTING CABLE TRENCH

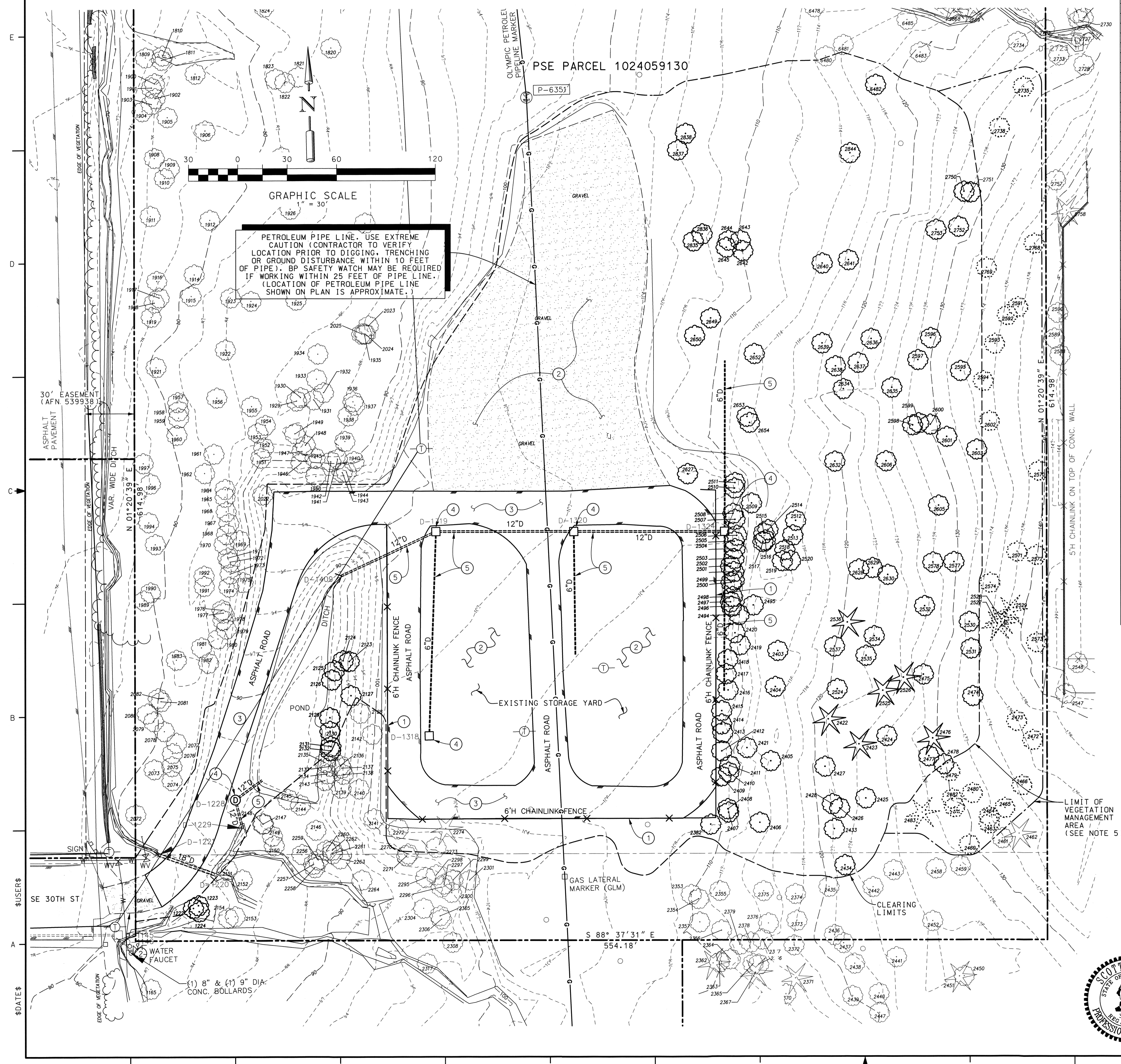
NOTES:

1. SUBSTANTIAL COMPLETION OF LAKESIDE SUBSTATION PHASE II CONSTRUCTION IS OCTOBER 2017.
2. PURPOSE OF PLAN SHEET IS TO DEPICT NEW POLE LOCATIONS.



REVISION DESCRIPTION: WO NUMBER: 111019489		PRELIMINARY SITE PLAN B RICHARDS CREEK SUBSTATION		DRAWING NO D-19552		REV NO 0
CUP AND CALUP SUBMITTAL				SHEET: 2 OF 2		FILE NO: CODE:
CAD	J. Nelson	DATE (M/D/Y)	8/17/17		SUBSTATION ENGINEERING DEPARTMENT	
ENGINEER	S. Kim	08/17/17	SCALE: 1" = 40'-0"		CLASS: SITE	
REVIEWED	/	/	CADD NO: \$90GN\$			
APPROVED	J. HENRY	08/17/17				

SECTION 10, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M.
CITY OF BELLEVUE, KING COUNTY, WASHINGTON



TREE REMOVAL SCHEDULE		
REF #	TREE DESC.	DIA (INCHES)
1222	POPLAR	10.6
1223	POPLAR	10
1224	POPLAR	8
2123	ALDER	12
2124	MAPLE	10
2125	ALDER	8
2126	ALDER	14
2127	MAPLE	9
2129	ALDER	12, 10, 9, 7
2130	ALDER	8
2131	ALDER	8
2132	ALDER	9, 8
2382	ALDER	8
2405	ALDER	9
2406	ALDER	11
2407	ALDER	11
2408	ALDER	10
2409	ALDER	12
2410	ALDER	10
2411	ALDER	11
2412	ALDER	10
2413	ALDER	8
2414	ALDER	11, 9
2415	ALDER	11, 9
2416	ALDER	18
2417	MAPLE	8
2418	ALDER	16, 7
2419	ALDER	10, 8
2420	ALDER	9
2421	ALDER	14
2422	FIR	16
2423	FIR	10
2424	MAPLE	20, 18, (2)15, 10, 8
2425	MAPLE	16
2426	MAPLE	18
2427	MAPLE	20
2428	MAPLE	15, 14
2433	MAPLE	12
2434	MAPLE	22, 13, 9
2474	MAPLE	18
2475	MAPLE	20
2476	FIR	24
2477	MAPLE	12
2478	MAPLE	16
2494	ALDER	9
2495	MAPLE	8
2496	ALDER	14
2497	ALDER	8
2498	ALDER	8, 12, 5, 5
2499	ALDER	9
2500	ALDER	9
2501	ALDER	10, 9
2502	ALDER	9, 8, 7
2503	ALDER	9, 8
2504	ALDER	12
2505	ALDER	8
2506	ALDER	(2)14
2507	ALDER	10
2508	ALDER	15, (2)11
2509	ALDER	11
2510	ALDER	14
2511	ALDER	8
2512	ALDER	9, 6
2513	ALDER	11
2514	ALDER	9

TREE REMOVAL SCHEDULE		
REF #	TREE DESC.	DIA (INCHES)
2515	ALDER	8
2516	ALDER	8
2517	ALDER	9
2518	ALDER	8
2519	ALDER	12, 7
2520	ALDER	10
2524	ALDER	(2)9
2525	FIR	34
2526	FIR	18
2530	MAPLE	(2)22
2531	MAPLE	10
2532	MAPLE	20
2534	MAPLE	8
2535	MAPLE	8
2536	MAPLE	8
2537	MAPLE	30
2577	MAPLE	12, 7
2578	MAPLE	14, 10, 7
2595	MAPLE	24
2596	MAPLE	18, (2)15
2597	MAPLE	18
2598	MAPLE	15, 14
2599	MAPLE	24, 18
2600	MAPLE	20
2601	MAPLE	24, 13
2603	MAPLE	14
2605	MAPLE	20, 24
2606	MAPLE	22
2628	MAPLE	22
2629	MAPLE	8
2630	MAPLE	CLUSTER (2)22, 15, 13, 11, 9
2632	MAPLE	24, 18, 16
2634	MAPLE	20, 12
2635	MAPLE	10, 9
2636	MAPLE	20, 12
2637	MAPLE	22, 15
2638	MAPLE	13
2639	MAPLE	24, 9
2640	MAPLE	12
2641	POPLAR	12
2642	MAPLE	22, 10
2643	MAPLE	22
2644	MAPLE	22
2645	MAPLE	(2)12, 9
2649	MAPLE	24
2650	MAPLE	CLUSTER 18, 16, 15, 15, 12, 12, 10
2652	MAPLE	CLUSTER (2)22, (2)18, (1)9, (2)8
2653	MAPLE	30, 25
2654	MAPLE	(2)20
2750	MAPLE	14
2751	MAPLE	24, 18
2752	MAPLE	8
2753	MAPLE	16, 30
2835	MAPLE	CLUSTER 15, 13, (2)12, 10, (2)9
2836	MAPLE	15
2837	MAPLE	20
2838	MAPLE	CLUSTER 18, 16, 14, (2)12, 10
2844	POPLAR	10
6482	MAPLE	20

LEGEND

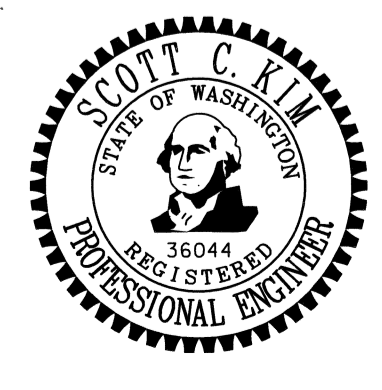
- EXISTING TREE (TO BE REMOVED)
- EXISTING TREE (TO BE TRIMMED) SEE NOTE 5
- EXISTING FENCE (TO BE REMOVED)
- EXISTING DRAINAGE (TO BE REMOVED)
- EXISTING ASPHALT (TO BE REMOVED)
- EXISTING GRAVEL (TO BE REMOVED)
- LIMITS OF VEGETATION MANAGEMENT
- LIMITS OF CLEARING
- PROPERTY LINE

TREE MANAGEMENT SCHEDULE

REF #	TREE DESC.	DIA (INCHES)
2460	MAPLE	24
2463	MAPLE	11
2464	MAPLE	15, 12
2365	MAPLE	20, 9
2466	MAPLE	8
2472	MAPLE	8
2473	MAPLE	14, 4
2479	MAPLE	15
2480	MAPLE	11
2481	MAPLE	15
2482	MAPLE	16
2483	CEDAR	9
2527	MADRONA	24
2528	MADRONA	9
2529	FIR	9
2570	MAPLE	15
2571	MAPLE	27, (2)20, 18, 9
2572	MAPLE	24, 12
2573	MAPLE	18, 17
2574	MAPLE	14, 7
2591	MAPLE	24, 8
2592	MAPLE	10
2593	MAPLE	11, 9
2594	MAPLE	30, 15
2602	MAPLE	24, 15
2735	MAPLE	48
2738	MAPLE	24
2768	MAPLE	22, (2)20
2769	MAPLE	20, 18

- DEMOLITION NOTES:**
- REMOVE EXISTING FENCING.
 - REMOVE EXISTING GRAVEL SURFACE.
 - REMOVE EXISTING ASPHALT ROAD.
 - DEMOLISH EXISTING CATCH BASIN.
 - REMOVE EXISTING STORM PIPE.

- GENERAL NOTES:**
- UNLESS OTHERWISE NOTED FOR REMOVAL, CONTRACTOR SHALL PROTECT EXISTING TREES.
 - EXISTING 16" PETROLEUM PIPE LINE MUST BE PROTECTED AT ALL TIMES. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING BP COMPANY PRIOR TO CONSTRUCTION.
 - SEE SHEET D-18166, GRADING AND FENCING PLAN FOR CLEARING LIMITS.
 - DEMOLITION SHALL NOT BEGIN UNTIL TESC MEASURES ARE INSTALLED PER TESC PLAN.
 - TREES IN VEGETATION MANAGEMENT AREA SHALL BE CUT 10 TO 15 FEET ABOVE GRADE. CONTRACTOR SHALL REMOVE CUT VEGETATION.

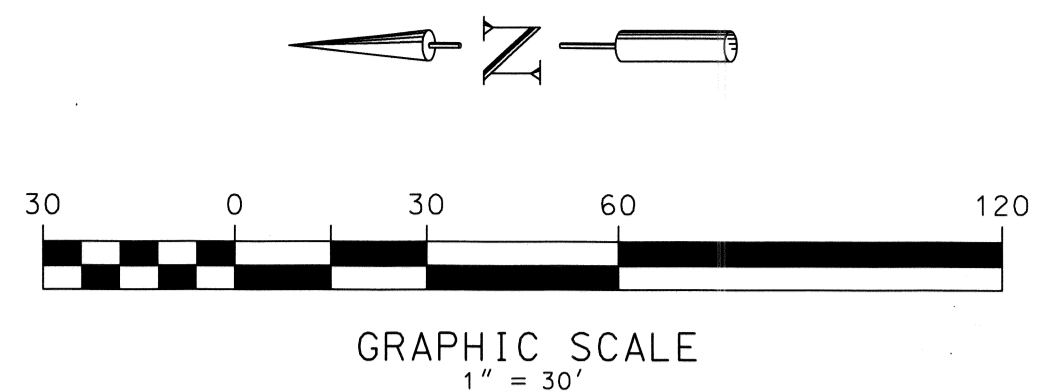
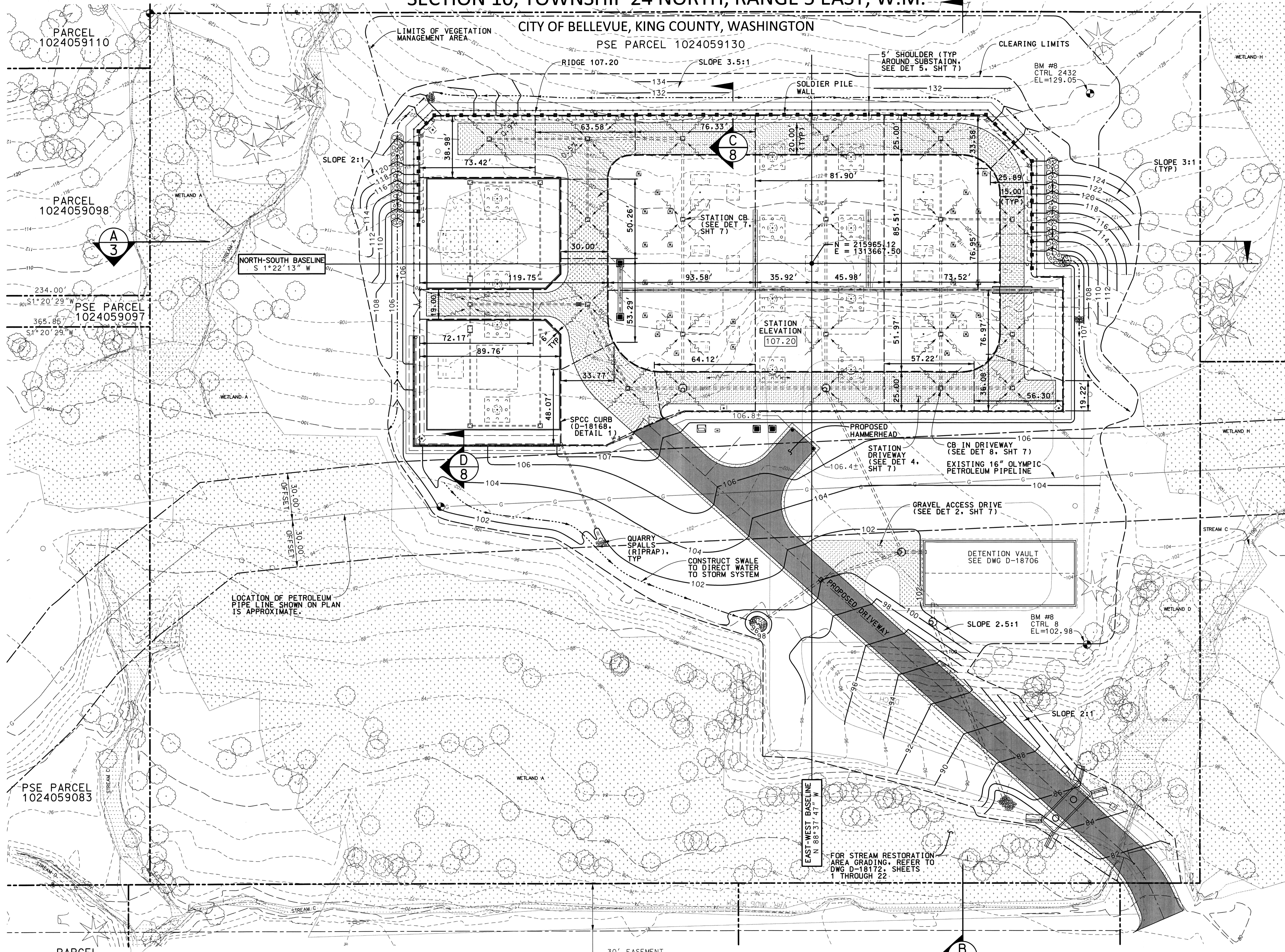


REVISION DESCRIPTION: WO NUMBER: 111019489		PRELIMINARY CLEARING, DEMOLITION AND TREE REMOVAL PLAN		RICHARDS CREEK	
CUP AND CALUP SUBMITTAL		DATE (M/D/Y): 08/17/17		DRAWING NO: D-19553	
CAD: J. Nelson	ENGINEER: S. Kim	REVIEWED: / /	APPROVED: J. HENRY	SCALE: 1" = 30' - 0"	CLASS: SITE

SECTION 10, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M.

CITY OF BELLEVUE, KING COUNTY, WASHINGTON

PSE PARCEL 1024059130



LEGEND:

- 107.20 FINISHED GRADE ELEVATION
- PROPERTY LINE
- STATION FENCE
- RIDGE LINE
- FOUNDATIONS (REF ONLY)
- TYPE I CATCH BASIN (SEE DRAINAGE PLAN)
- VAULT
- RIP RAP
- WETLAND BUFFER
- SETBACK FROM BUFFER

CONSTRUCTION NOTES

1. ALL RIDGES TO BE ELEVATION 107.2. GRADING WITHIN RIDGES SHALL SLOPE DOWN AT A MINIMUM OF 0.5% TO CATCH BASIN ELEVATION. SEE D-18166, SHEET 7 FOR GRADING AROUND CATCH BASINS.
2. GRADING ON STATION DRIVE WITHIN RIDGES SLOPE DOWN AT A MINIMUM OF 0.5% AND A MAXIMUM OF 2.0% TO CATCH BASIN GRADE ELEVATION.
3. SEE DRAINAGE PLAN, DRAWING D-18167, SHEET 1, FOR RIM ELEVATIONS.
4. NOTIFY BP PETROLEUM PRIOR TO ANY WORK.

GRADING NOTES

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT OF DISCOVERY OF POOR SOILS, GROUNDWATER OR DISCREPANCIES IN THE EXISTING CONDITIONS AS NOTED ON THE PLANS.
2. MAXIMUM SLOPE STEEPNESS SHALL BE 2:1 HORIZONTAL:VERTICAL FOR CUT AND FILL SLOPES.
3. UNLESS OTHERWISE SPECIFIED, ALL EMBANKMENTS IN THE PLAN SET SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 2-03.31(14)B OF THE WSDOT STANDARD SPECIFICATIONS. EMBANKMENT COMPACTIONS SHALL CONFORM TO SECTION 2-03.31(14)C, METHOD B OF SAID STANDARD SPECIFICATIONS.
4. EMBANKMENTS DESIGNED TO IMPOUND WATER SHALL BE COMPACTED TO 95% MAXIMUM DENSITY PER SECTION 2-03.3 (14)C, METHOD C OF WSDOT STANDARD SPECIFICATIONS.
5. ALL AREAS RECEIVING FILL MATERIAL SHALL BE PREPARED BY REMOVING VEGETATION, NONCOMPLYING FILL, TOPSOIL AND OTHER UNSUITABLE MATERIAL, BY SCARIFYING THE SURFACE TO PROVIDE A BOND WITH THE NEW FILL, AND WHERE SLOPES ARE STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL AND THE HEIGHT IS GREATER THAN 5 FEET, BY BENCHING INTO SOUND COMPETENT MATERIAL AS DETERMINED BY A SOILS ENGINEER.
6. GRADE BREAK LINES INDICATE A TRANSITION IN GRADE SLOPES. GRADE TO DRAIN AS NOTED BY SLOPE DIRECTION SYMBOLS.
7. DISTURBED AREAS NOT RECEIVING LANDSCAPING OR CRITICAL AREA ENHANCEMENT SHALL RECEIVE HYDROSEED ONCE FINAL GRADE IS REACHED.

REFERENCE DRAWINGS

D-19551 TOPOGRAPHIC AND BOUNDARY SURVEY (PARCEL C) #102405-9130



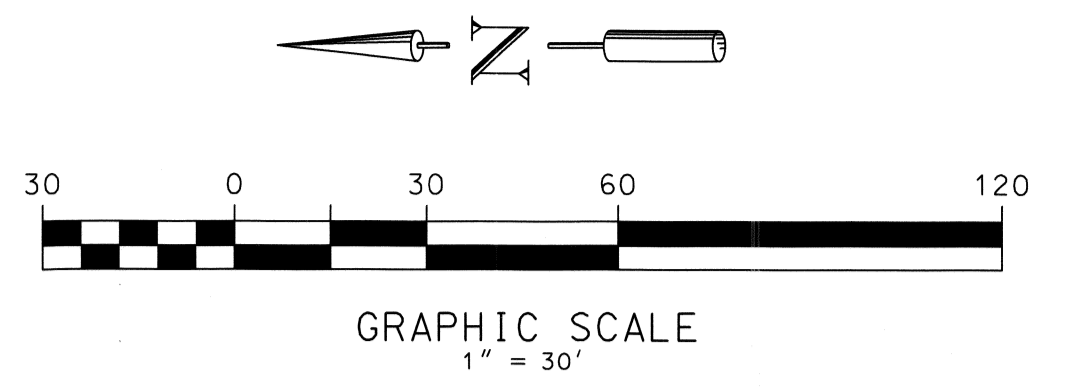
REVISION DESCRIPTION: WO NUMBER: 111019489		PRELIMINARY GRADING PLAN RICHARDS CREEK SUBSTATION		DRAWING NO	REV NO
CUP AND CALUP SUBMITTAL				D-19554	0
CAD	J. Nelson	DATE (M/D/Y)	08/14/17	PUGET SOUND ENERGY SUBSTATION ENGINEERING DEPARTMENT	SHEET: 1 OF 8 FILE NO: CODE:
ENGINEER	S. Kim	08/14/17			
REVIEWED					
APPROVED	J. HENRY	08/17/17		SCALE: 1" = 30'-0"	CLASS: SITE

PARCEL 5453300146

\$USERS \$DATES \$FILES

SECTION 10, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M.

PSE PARCEL 1024059130 CITY OF BELLEVUE, KING COUNTY, WASHINGTON PROJECT BOUNDARY



LEGEND:

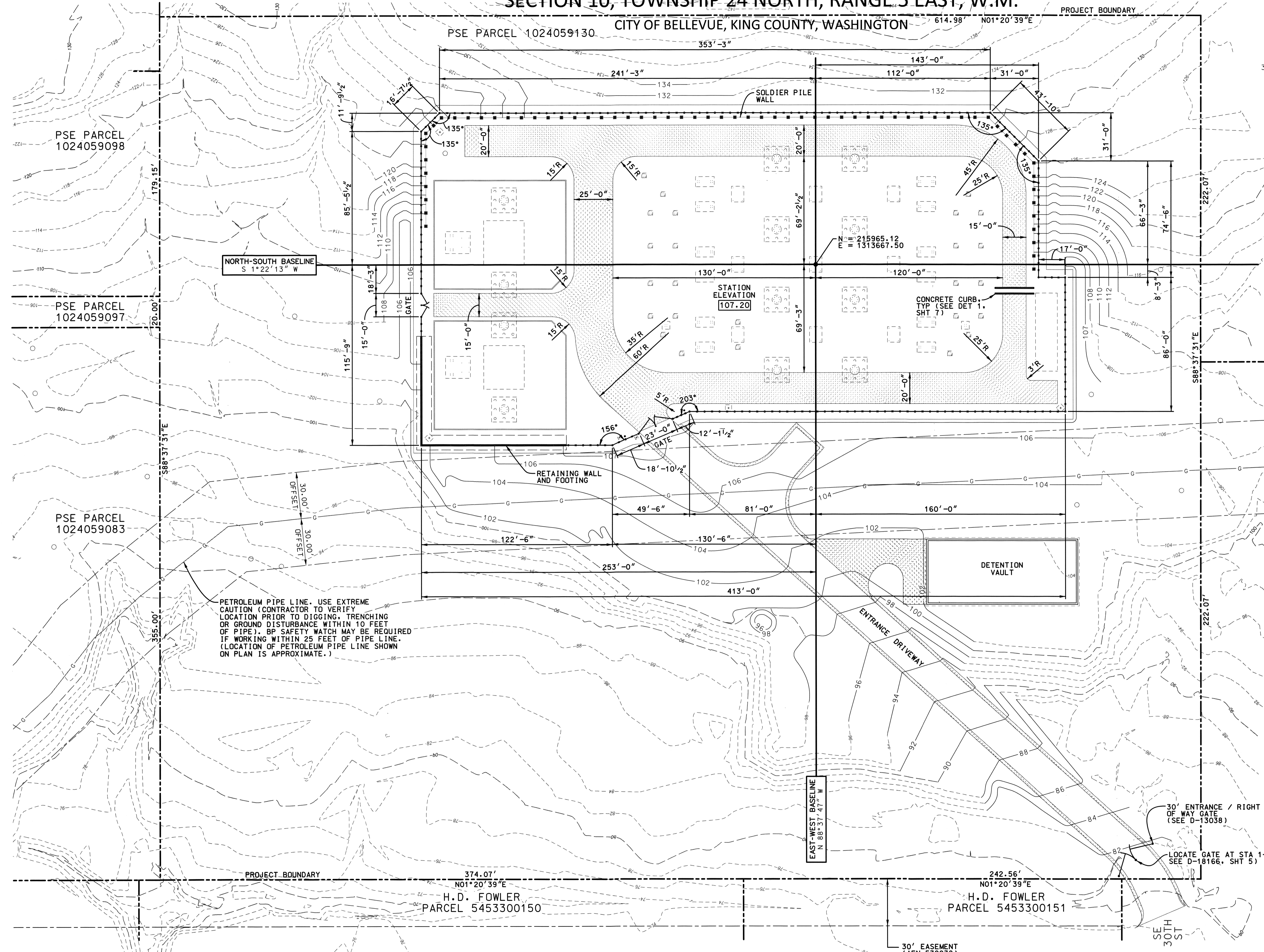
- PROPERTY LINE
- STATION FENCE
- SOLDIER PILE WALL
- FOUNDATIONS (REF ONLY)

NOTES

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT OF DISCOVERY OF POOR SOILS, GROUNDWATER OR DISCREPANCIES IN THE EXISTING CONDITIONS AS NOTED ON THE PLANS.
2. NOTIFY BP PETROLEUM PRIOR TO ANY WORK.
3. CONTRACTOR SHALL COORDINATE THE LOCATION OF THE PROPOSED 30' WIDE ENTRY GATE W/PSE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.

REFERENCE DRAWINGS

- D-19551 TOPOGRAPHIC AND BOUNDARY SURVEY (PARCEL C) #102405-913
- D-19554 PRELIMINARY GRADING PLAN (SHEET 1 OF 8)



PETROLEUM PIPE LINE. USE EXTREME CAUTION (CONTRACTOR TO VERIFY LOCATION PRIOR TO DIGGING, TRENCHING OR GROUND DISTURBANCE WITHIN 10 FEET OF PIPE). BP SAFETY WATCH MAY BE REQUIRED IF WORKING WITHIN 25 FEET OF PIPE LINE. (LOCATION OF PETROLEUM PIPE LINE SHOWN ON PLAN IS APPROXIMATE.)

NORTH-SOUTH BASELINE
S 1°22'13" W

EAST-WEST BASELINE
N 88°37'47" W

30' ENTRANCE / RIGHT OF WAY GATE (SEE D-13038)

LOCATE GATE AT STA 1+14.2 (SEE D-18166, SHT 5)

30' EASEMENT (AFN 539938)

CALL BEFORE YOU DIG
Call: TOLL FREE 1-800-424-5555

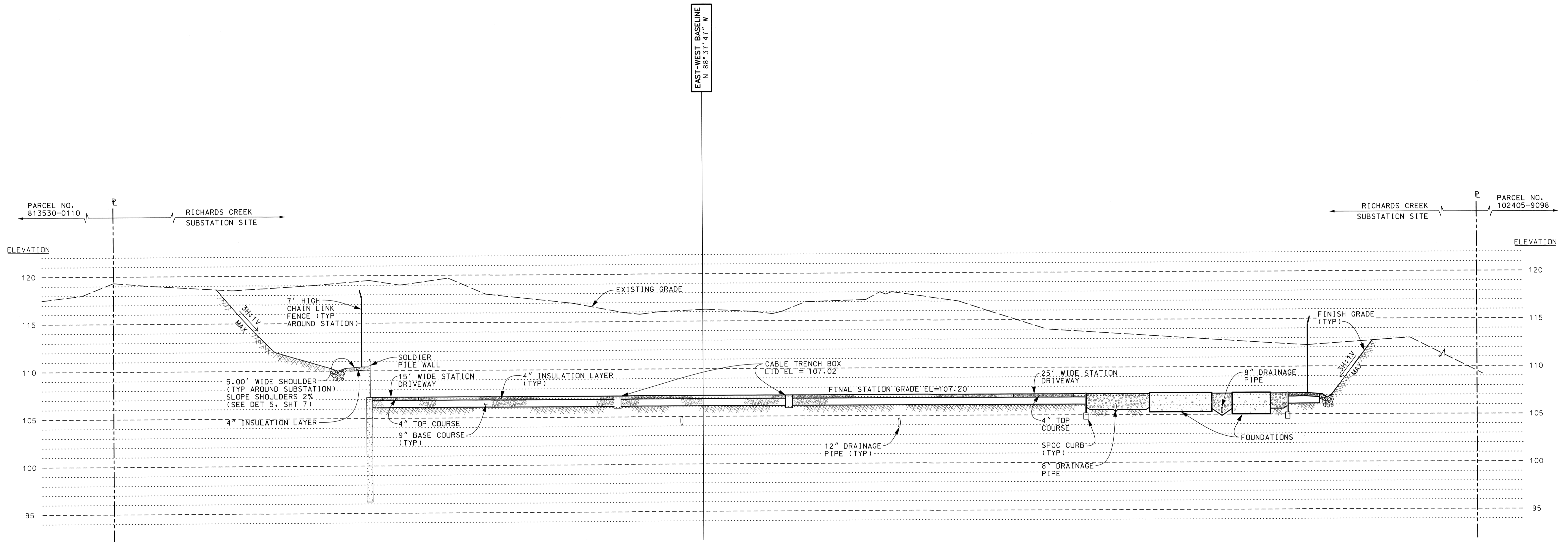


REVISION DESCRIPTION: WO NUMBER: 111019489		PRELIMINARY FENCING AND STATION DRIVEWAY LAYOUT PLAN	
CUP AND CALUP SUBMITTAL		RICHARDS CREEK SUBSTATION	
CAD	J. Nelson	DATE (M/D/Y)	8/14/17
ENGINEER	S. Kim	SCALE: 1" = 30'-0"	CLASS: SITE
REVIEWED	/	CADD NO: \$\$\$GNS\$	FILE NO:
APPROVED	J. HENRY	08/17/17	CODE:
		DRAWING NO	REV NO
		D-19554	0
		SHEET: 2 OF 8	

\$USERS\$

\$FILES\$

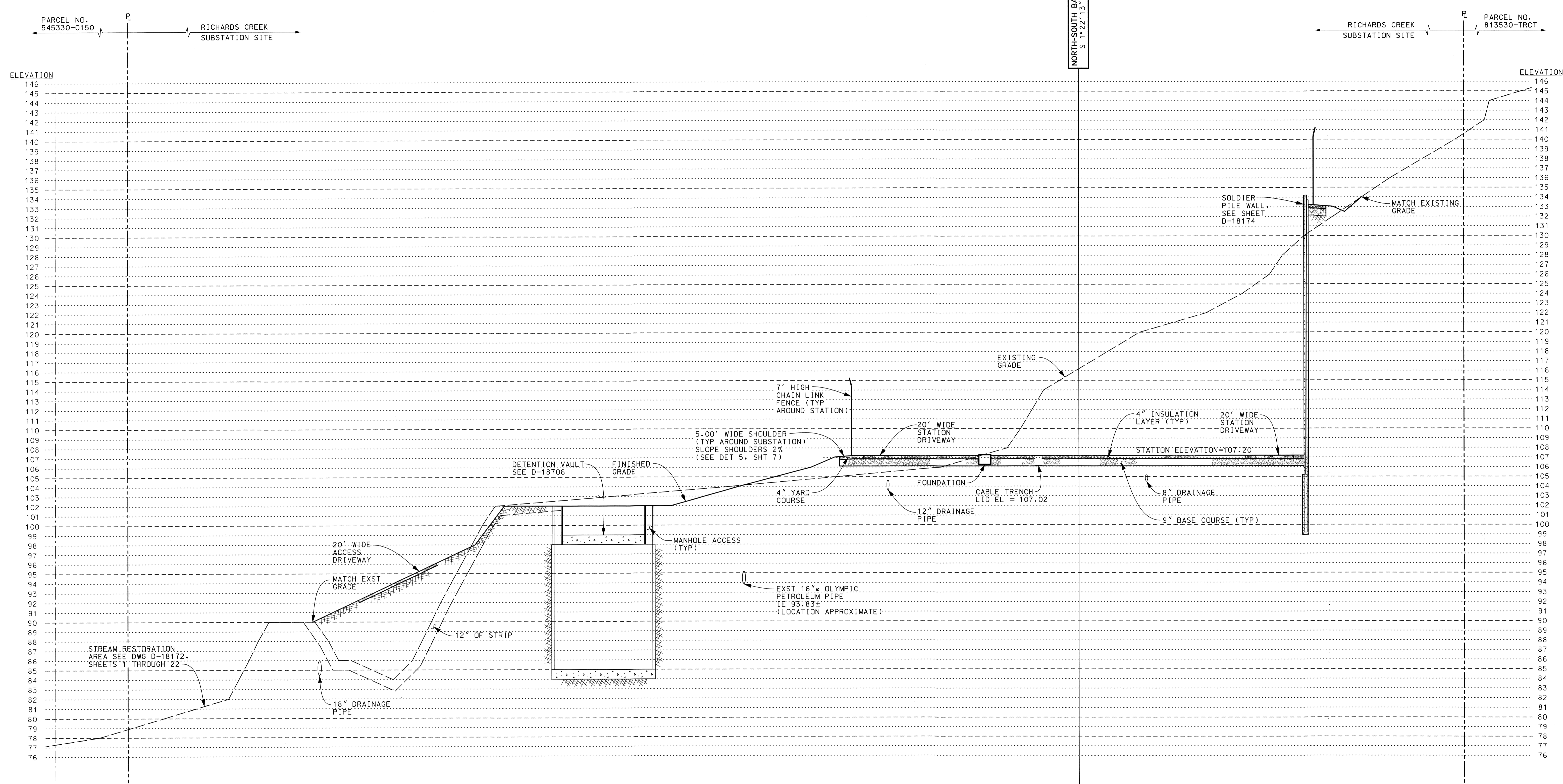
SECTION 10, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M.
CITY OF BELLEVUE, KING COUNTY, WASHINGTON



SITE SECTION A
(FACING WEST)
SCALE: HORIZ: 1" = 20'
VERT: 1" = 5'



REVISION DESCRIPTION: WO NUMBER: 111019489		DRAWING NO: D-19554		REV NO: 0
CUP AND CALUP SUBMITTAL		PRELIMINARY SITE SECTION RICHARDS CREEK SUBSTATION		FILE NO:
CAD	J. Nelson	DATE (M/D/Y)	08/14/17	SHEET: 3 OF 8
ENGINEER	S. Kim	SCALE: 1" = 20'-0"	CLASS: SITE	CODE:
REVIEWED	/ /	CADD NO: \$\$\$GNS\$		
APPROVED	J. Henry	08/17/17		



SITE SECTION B
 (FACING NORTH)
 SCALE: HORIZ: 1" = 20'
 VERT: 1" = 5'

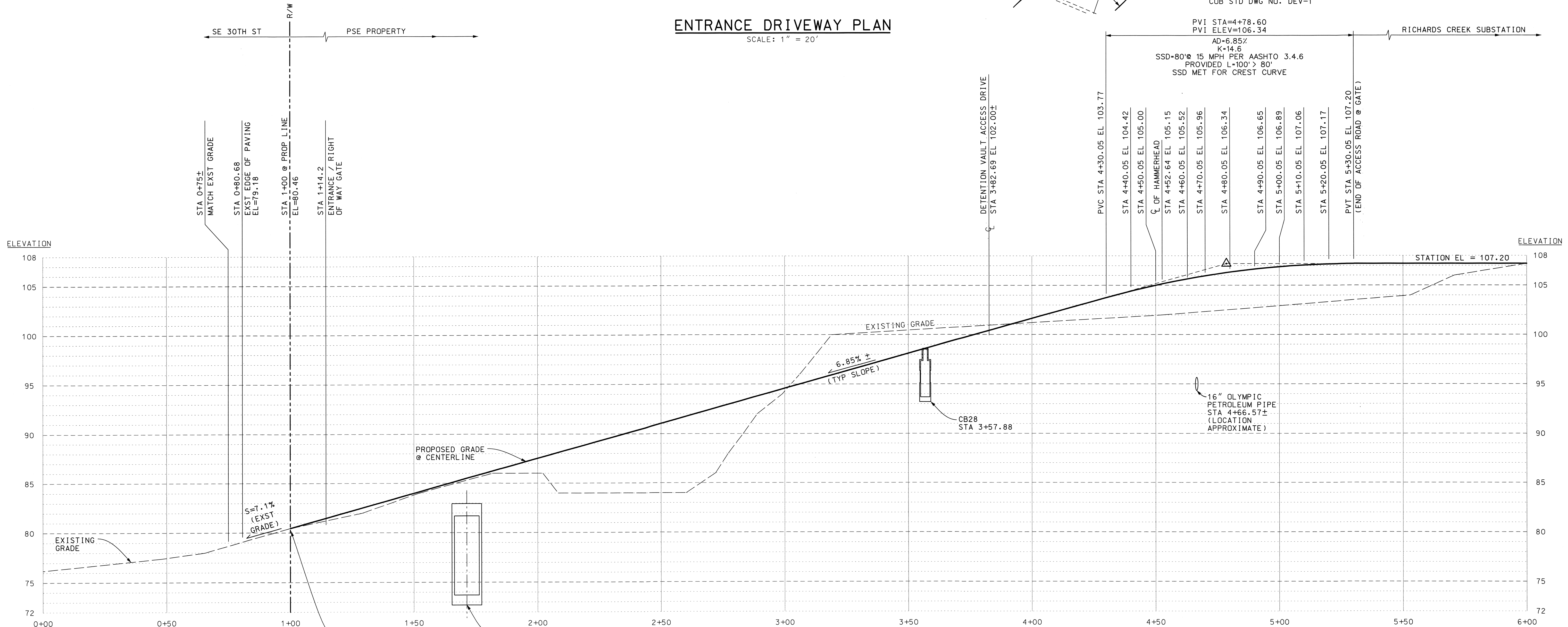
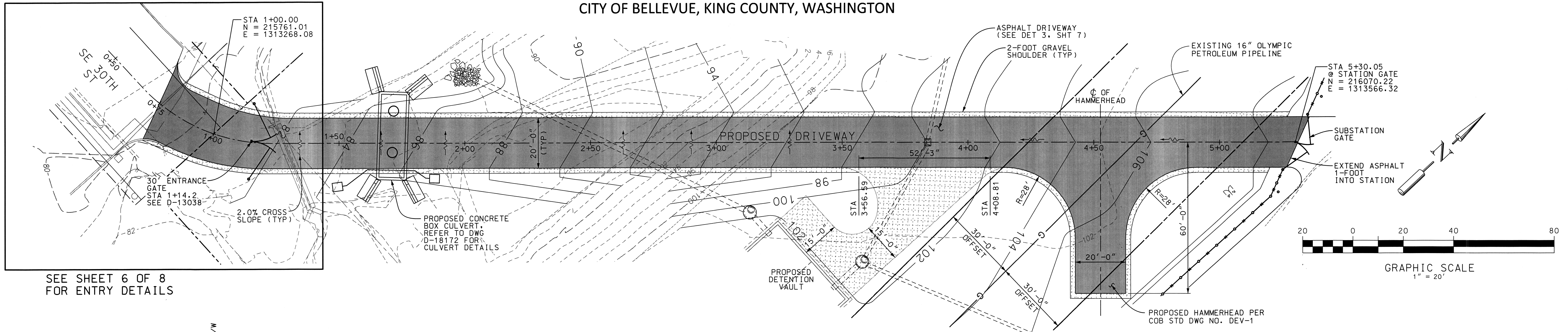


REVISION DESCRIPTION: WO NUMBER: 111019489	
CUP AND CALUP SUBMITTAL	
CAD	J. Nelson 08/14/17
ENGINEER	S. Kim 08/14/17
REVIEWED	/ /
APPROVED	J. HENRY 08/17/17

**PRELIMINARY SITE SECTION
RICHARDS CREEK SUBSTATION**

	PUGET SOUND ENERGY SUBSTATION ENGINEERING DEPARTMENT	DRAWING NO	REV NO
		D-19554	0
SCALE: 1" = 20'-0"		CLASS: SITE	FILE NO:
CADD NO: \$\$\$DGN\$\$\$		CODE: RIC	

SECTION 10, TOWNSHIP 28 NORTH, RANGE 5 EAST, W.M.
CITY OF BELLEVUE, KING COUNTY, WASHINGTON



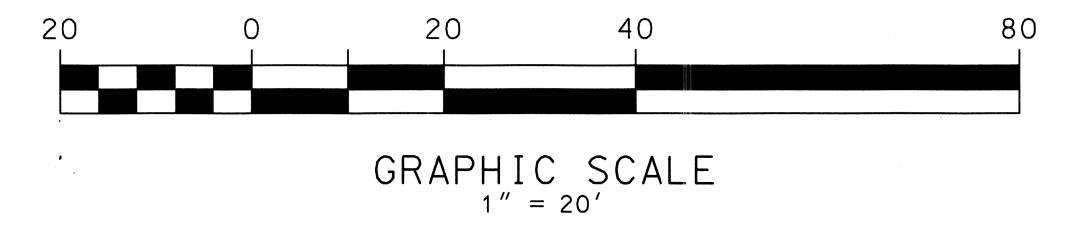
ENTRANCE DRIVEWAY PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 5'

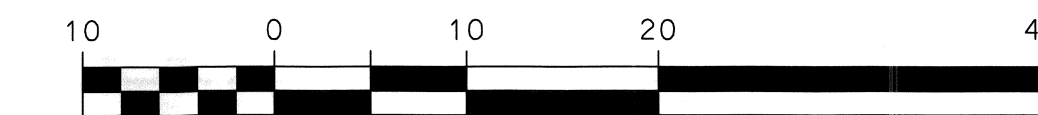


REVISION DESCRIPTION: WO NUMBER: 111019489		PRELIMINARY ENTRANCE DRIVEWAY PLAN AND PROFILE	
CUP AND CALUP SUBMITTAL		RICHARDS CREEK SUBSTATION	
CAD	J. Nelson	DATE (M/D/Y)	8/14/17
ENGINEER	S. Kim	DATE (M/D/Y)	08/14/17
REVIEWED	/ /	SCALE: NOTED	CLASS: SITE
APPROVED	J. Henry	CADD NO: \$\$\$GN\$\$	CODE: RIC
DRAWING NO: D-19554		REV NO: 0	
SHEET: 5 OF 8		FILE NO:	

SEE SHEET 6 OF 8 FOR ENTRY DETAILS



SECTION 10, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M.
CITY OF BELLEVUE, KING COUNTY, WASHINGTON



LEGEND

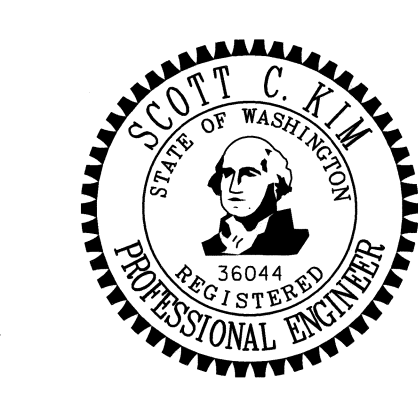
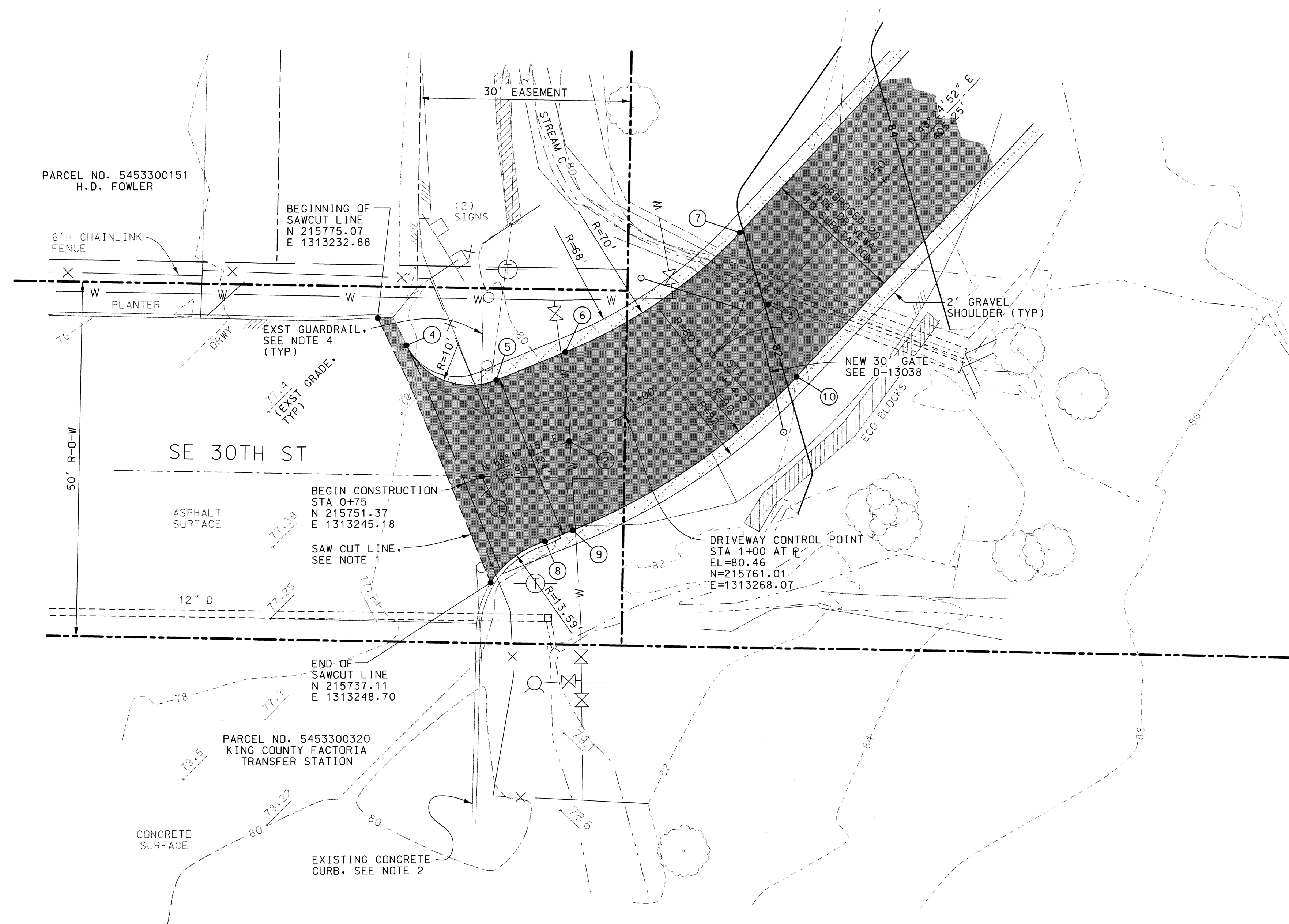
- NEW PAVEMENT (SEE DETAILS 1 & 2 ON SHEET 4 OF 6)
- 2' WIDE GRAVEL SHOULDER

CONSTRUCTION NOTES

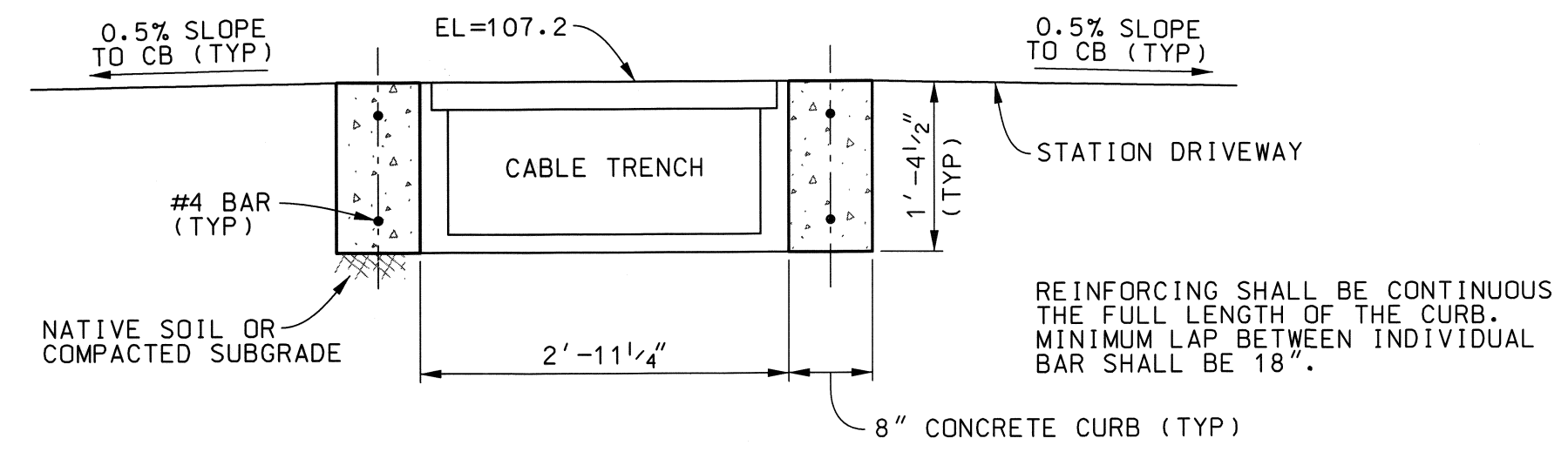
1. SAWCUT EXISTING PAVEMENT AND MATCH EXISTING GRADE AT THE SAWCUT LINE. FIELD VERIFY THE SAWCUT LINE PRIOR TO CONSTRUCTION AND FIELD ADJUST AS NECESSARY.
2. PROTECT EXISTING CONCRETE CURB.
3. PROTECT EXISTING UTILITY POLE.
4. REMOVE EXISTING GUARDRAIL AS NEEDED. REPLACE WITH NEW GUARDRAIL IN KIND PER PSE CONSTRUCTION MANAGEMENT.
5. REMOVE EXISTING FENCE AND INSTALL NEW FENCE IN KIND PER PSE CONSTRUCTION MANAGEMENT.
6. MINIMUM PAVEMENT RESTORATION LIMIT IS SHOWN ON THE PLAN. PSE CONSTRUCTION MANAGEMENT SHALL FIELD DETERMINE THE APPROPRIATE LIMIT OF PAVEMENT RESTORATION AND ADJUST AS NECESSARY.
7. CONTRACTOR SHALL PROTECT ADJACENT WETLANDS AND STREAMS AT ALL TIMES DURING CONSTRUCTION.
8. REMOVE SANDBAGS AND ECO BLOCKS AFTER CONSTRUCTION OF PROPOSED DRIVEWAY & CULVERT REPLACEMENT.

NORTHING - EASTING TABLE

① PI N 215752.31 E 1313247.53	⑥ PC N 215770.00 E 1313259.57
② PC N 215757.29 E 1313260.03	⑦ PT N 215786.93 E 1313284.52
③ PT N 215776.63 E 1313288.55	⑧ PT N 215742.95 E 1313256.50
④ PT N 215771.10 E 1313236.96	⑨ PC N 215744.52 E 1313260.43
⑤ PC N 215766.08 E 1313249.71	⑩ PT N 215766.28 E 1313292.51

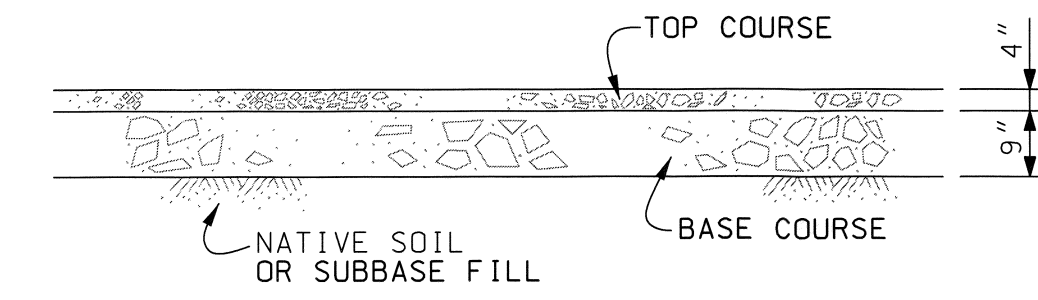


REVISION DESCRIPTION: WO NUMBER: 111019489		PRELIMINARY ENTRANCE DRIVEWAY DETAIL RICHARDS CREEK SUBSTATION		DRAWING NO		REV NO
CUP AND CALUP SUBMITTAL				D-19554		0
CAD	J. Nelson	DATE (M/D/Y)	8/14/17	PUGET SOUND ENERGY	STATION ENGINEERING DEPARTMENT	FILE NO:
ENGINEER	S. Kim	08/14/17	CLASS: SITE		SHEET: 6 OF 8	CODE: RIC
REVIEWED	/ /	/ /	SCALE: 1" = 10'-0"		CADD NO: \$\$\$GNS\$\$	
APPROVED	J. HENRY	08/17/17				



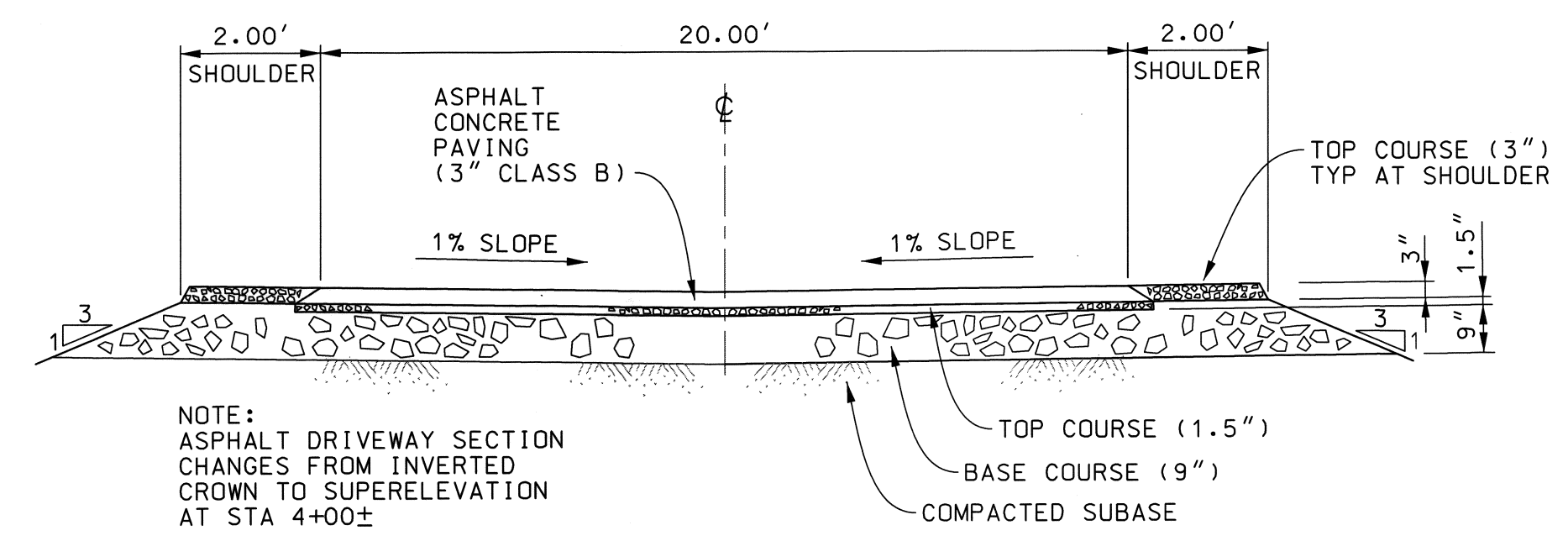
CABLE TRENCH CURB SECTION

DETAIL 1
NTS



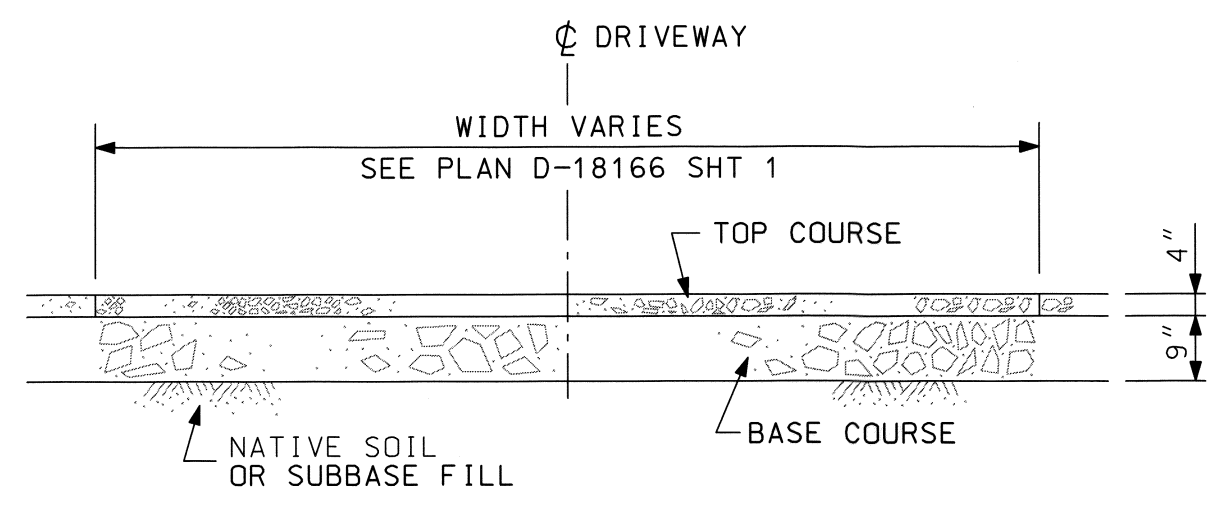
MAINTENANCE ACCESS GRAVEL DRIVEWAY

DETAIL 2
NTS



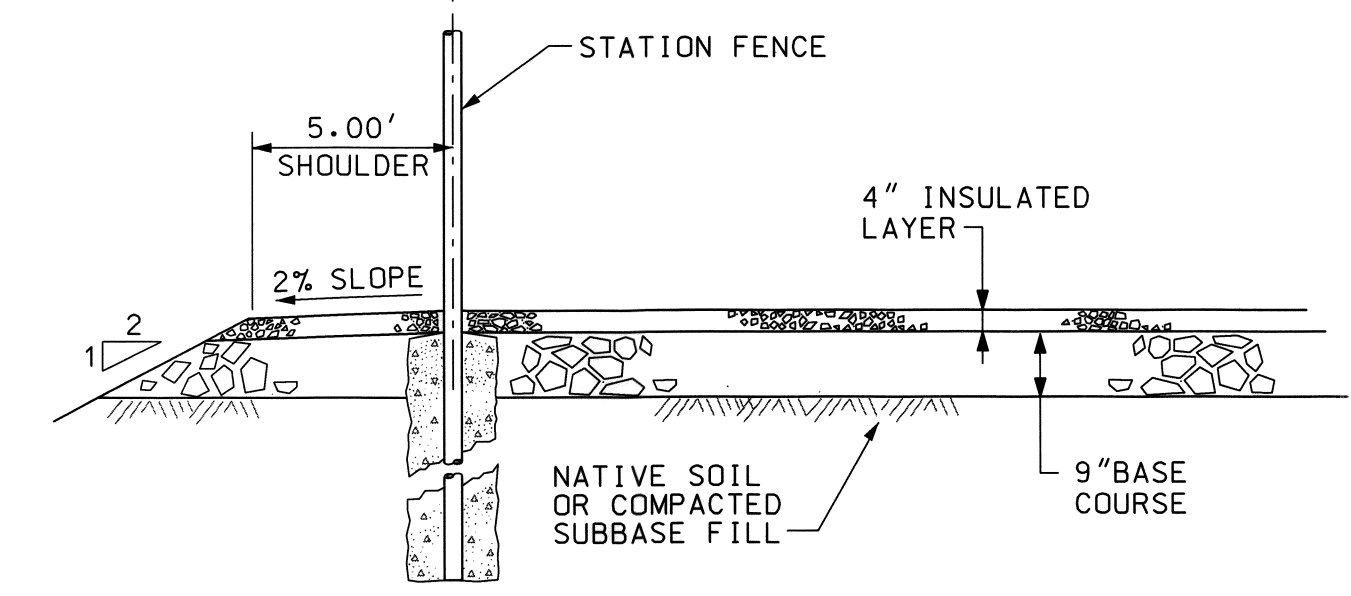
ASPHALT DRIVEWAY SECTION

DETAIL 3
NTS



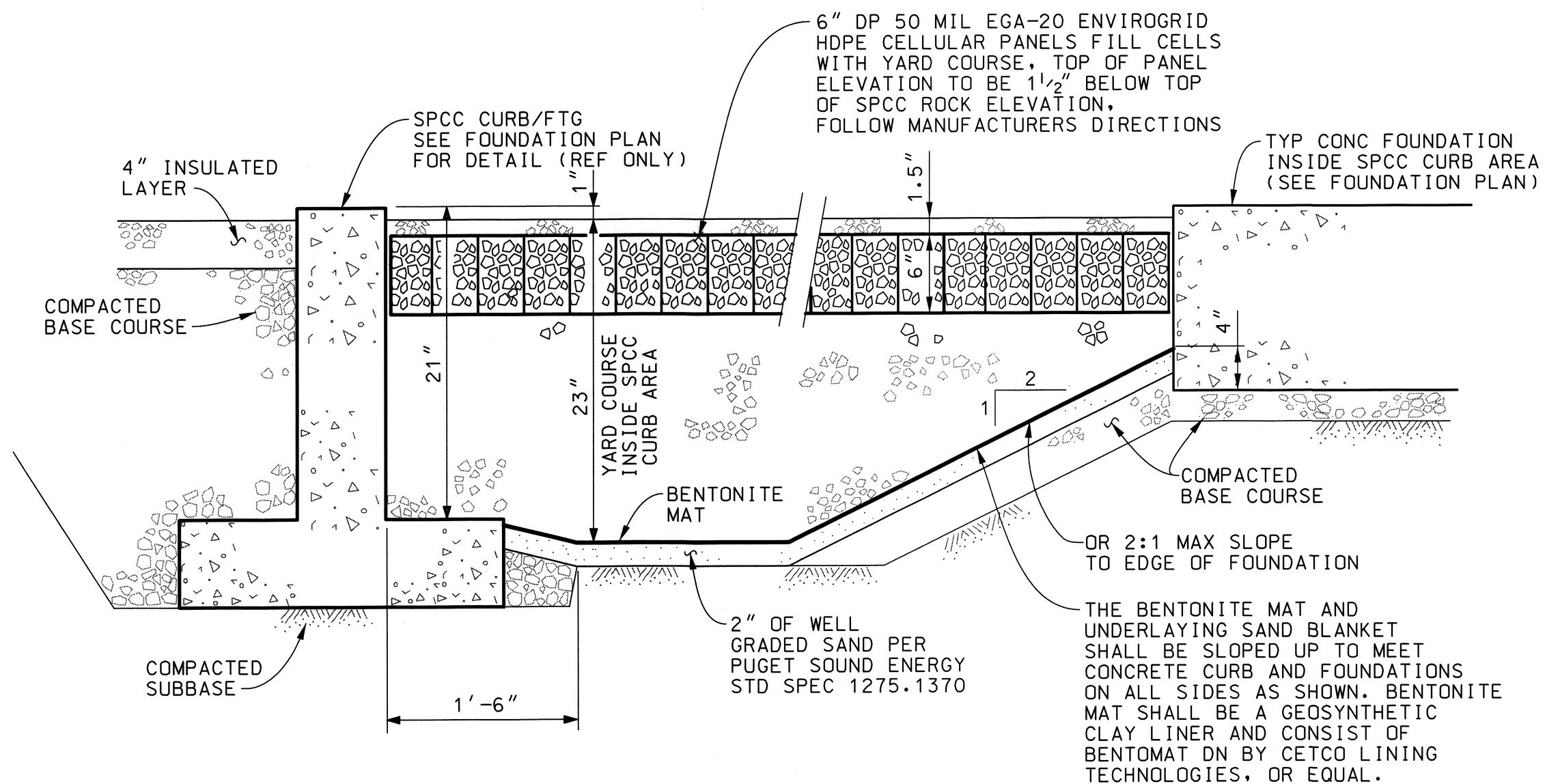
STATION DRIVEWAY

DETAIL 4
NTS



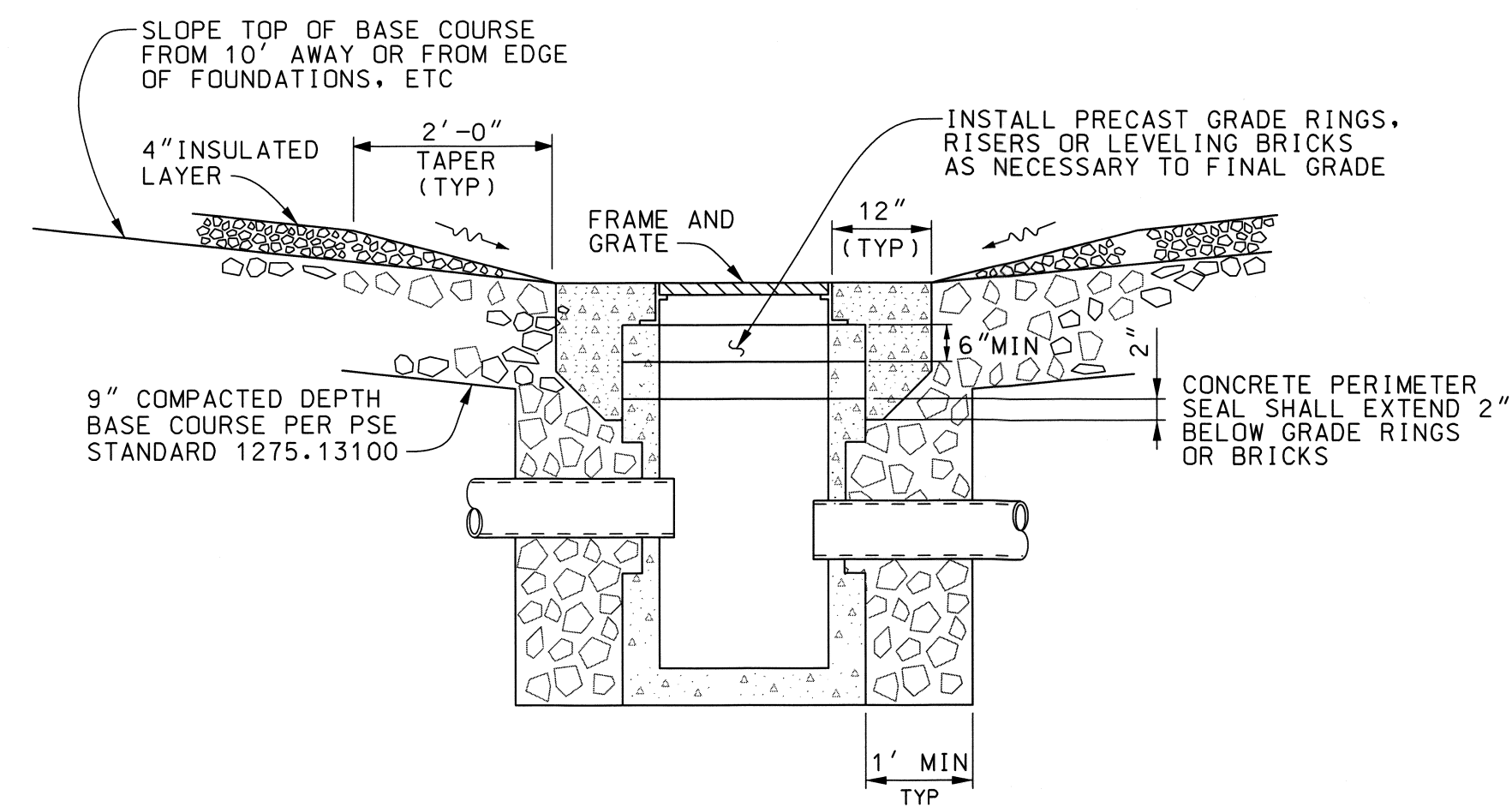
TYPICAL STATION SECTION

DETAIL 5
NTS



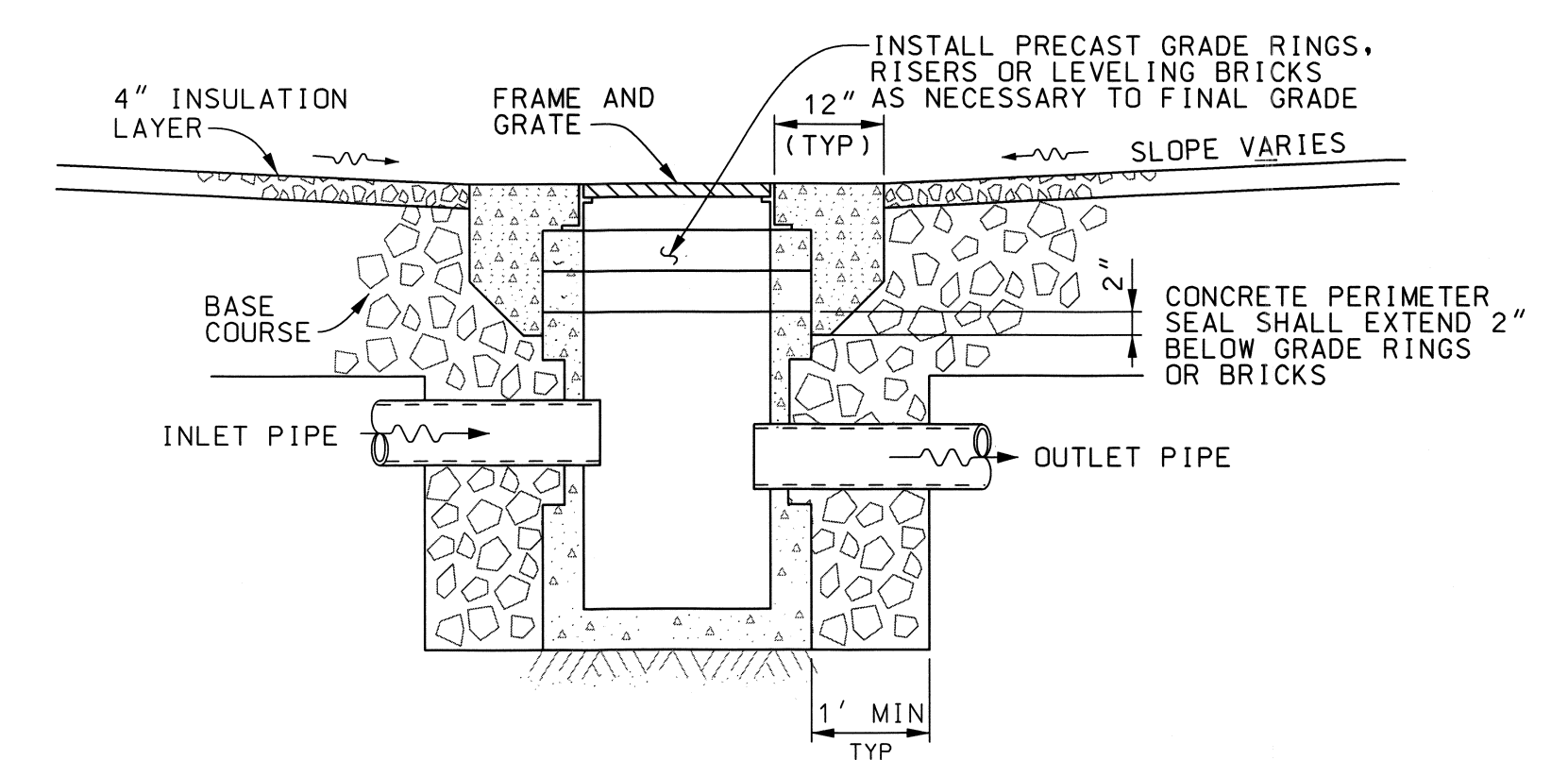
TYPICAL AREA INSIDE SPCC CURB

DETAIL 6
NTS



TYPICAL CATCH BASIN GRADING OUTSIDE OF SPCC AREA

DETAIL 7
NTS



TYPICAL GRADING FOR CATCH BASIN IN DRIVEWAY

DETAIL 8
NTS



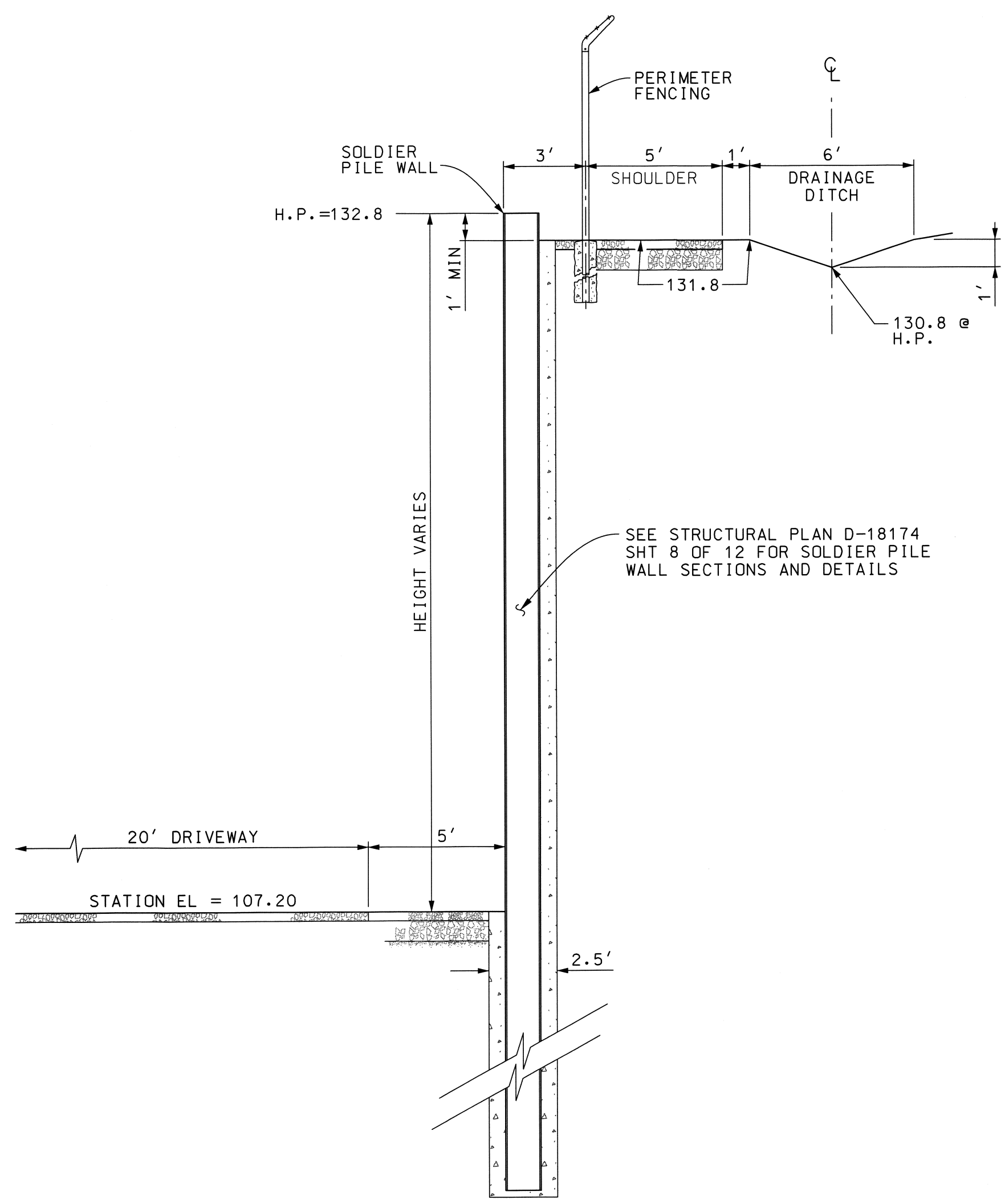
REVISION DESCRIPTION: WO NUMBER: 111019489		PRELIMINARY GRADING SECTIONS AND DETAILS RICHARDS CREEK SUBSTATION	
CUP AND CALUP SUBMITTAL			
CAD	J. Nelson	DATE (M/D/Y)	8/14/17
ENGINEER	S. Kim	DATE (M/D/Y)	08/14/17
REVIEWED	/ /	SCALE: NOTED	CLASS: SITE
APPROVED	J. Henry	DATE (M/D/Y)	08/17/17
		CADD NO: \$\$\$GNS\$\$	FILE NO: CODE: RIC



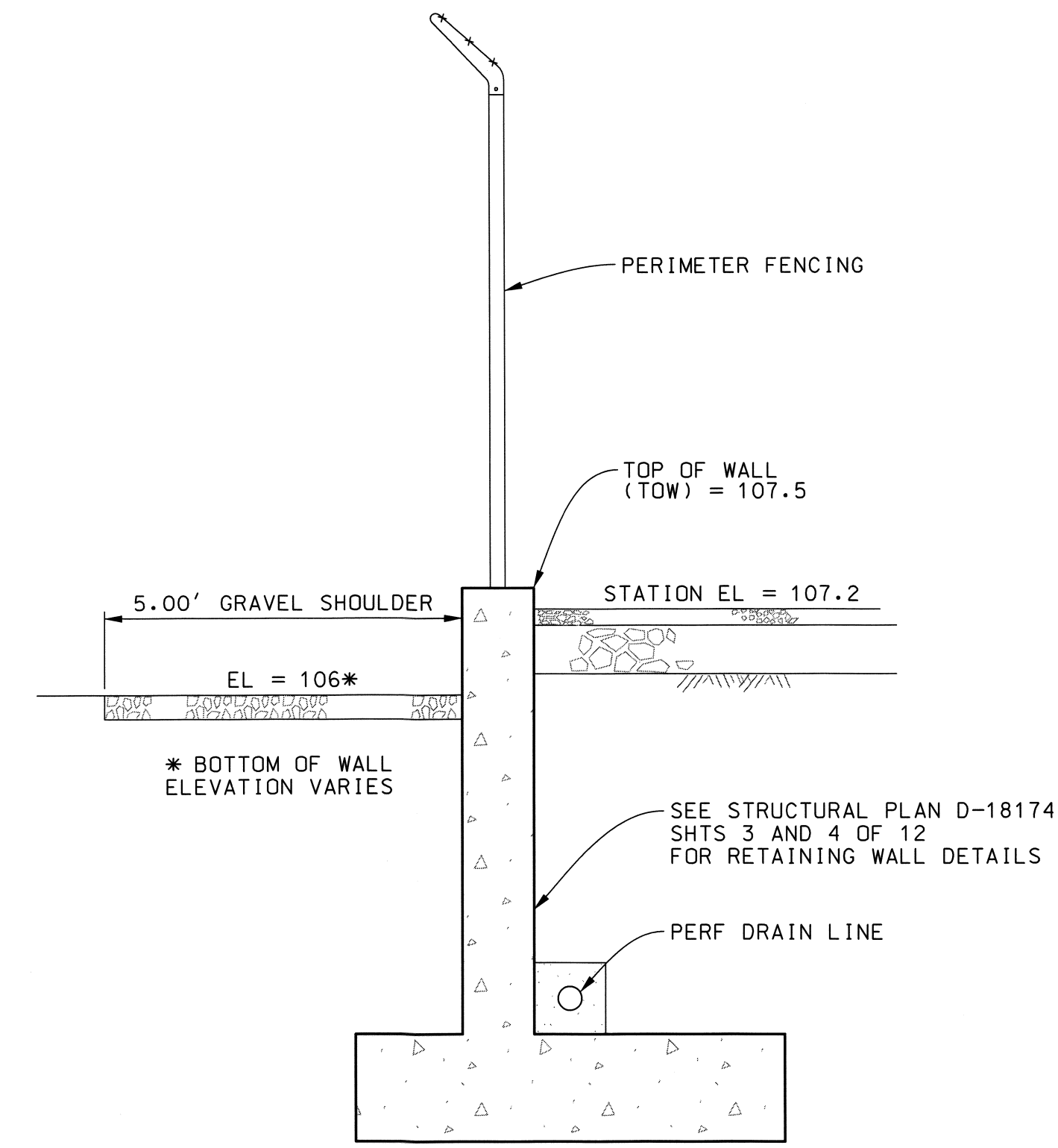
STATION ENGINEERING DEPARTMENT

DRAWING NO: **D-19554**
REV NO: **0**

SHEET: 7 OF 8



TYPICAL SOLDIER PILE WALL SECTION C
1



RETAINING WALL SECTION D
1



REVISION DESCRIPTION: WO NUMBER: 111019489		PRELIMINARY FENCING SECTIONS AND DETAILS RICHARDS CREEK SUBSTATION	
CUP AND CALUP SUBMITTAL			
CAD	J. Nelson	DATE (M/D/Y)	8 / 14 / 17
ENGINEER	S. Kim	08 / 14 / 17	
REVIEWED	/ /	SCALE: NONE	CLASS: SITE
APPROVED	J. Henry	08 / 17 / 17	CADD NO: **00N**
DRAWING NO D-19554		REV NO 0	FILE NO: CODE: RIC
SHEET: 8 OF 8			

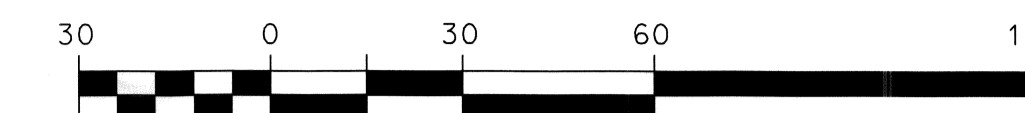
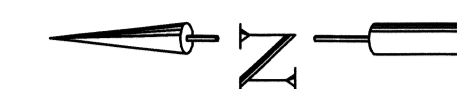


SUBSTATION ENGINEERING DEPARTMENT

SECTION 10, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M.

CITY OF BELLEVUE, KING COUNTY, WASHINGTON

PSE PARCEL 1024059130



LEGEND:

- FINISHED GRADE ELEVATION
- PROPERTY LINE
- STATION FENCE
- RIDGE LINE
- FOUNDATIONS (REF ONLY)
- TYPE I CATCH BASIN (SEE DRAINAGE PLAN)
- VAULT
- RIP RAP
- WETLAND BUFFER
- SETBACK FROM BUFFER
- (38) SHORE PINE, PINUS CONTORTA VAR. CONTORTA, 6' TALL MINIMUM, EVEN BRANCHING WITH INTACT, HEALTHY LEADER, SPACE 20 FEET ON-CENTER FROM EXISTING AND NEW TREES.

CONSTRUCTION NOTES

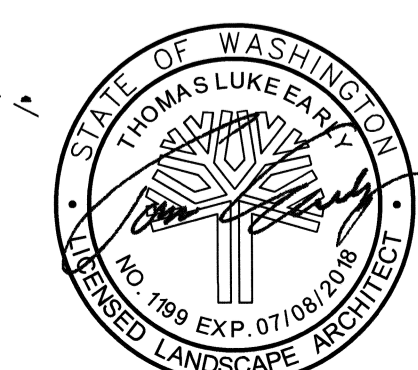
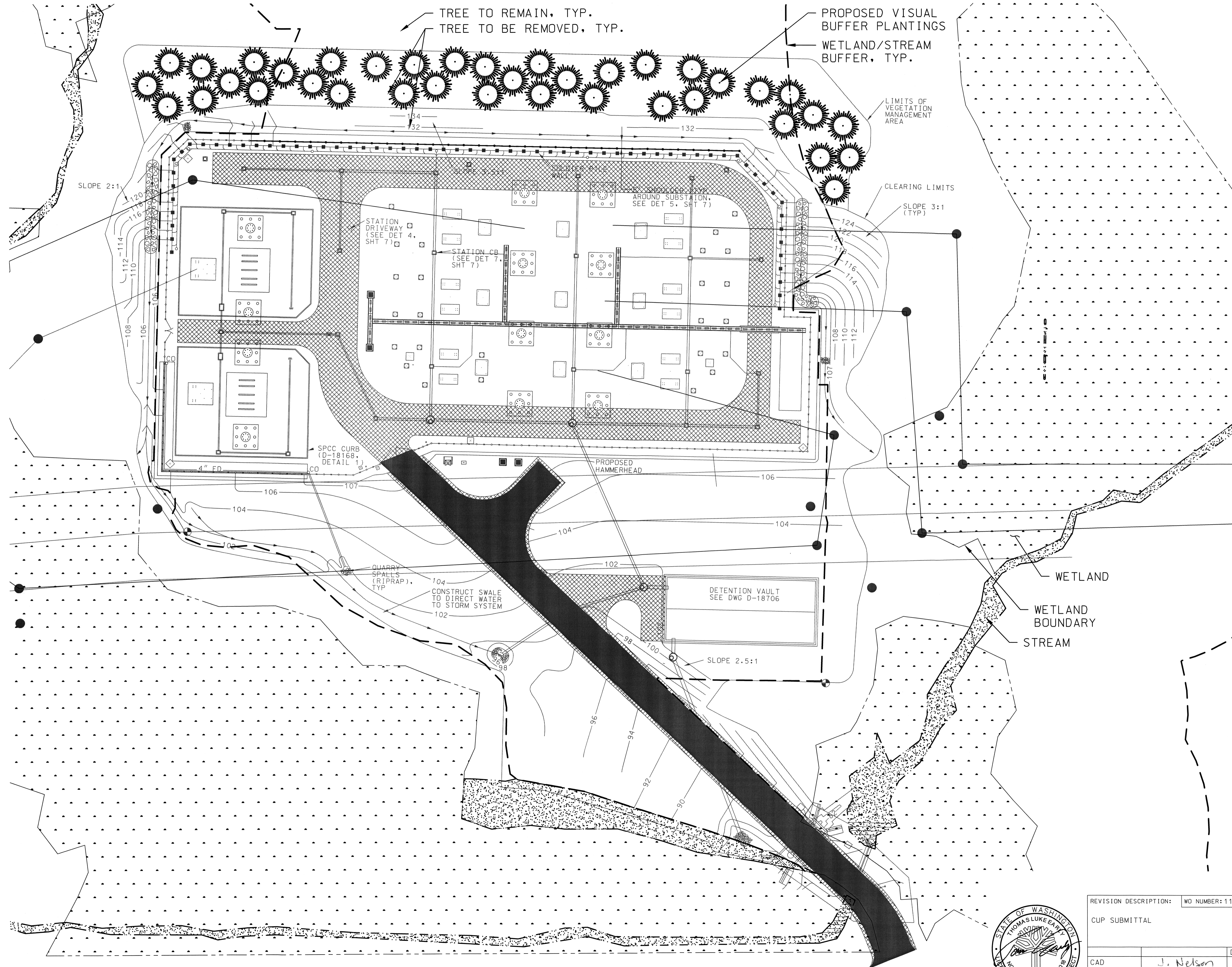
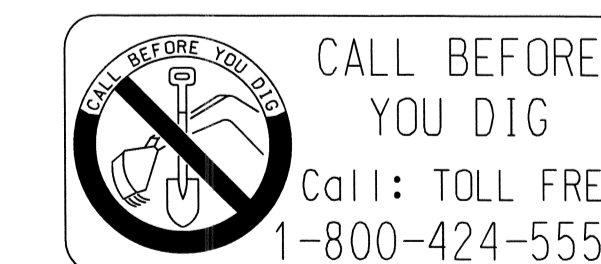
1. ALL RIDGES TO BE ELEVATION 107.2. GRADING WITHIN RIDGES SHALL SLOPE DOWN AT A MINIMUM OF 0.5% TO CATCH BASIN ELEVATION. SEE D-18166, SHEET 7 FOR GRADING AROUND CATCH BASINS.
2. GRADING ON STATION DRIVE WITHIN RIDGES SLOPE DOWN AT A MINIMUM OF 0.5% AND A MAXIMUM OF 2.0% TO CATCH BASIN GRATE ELEVATION.
3. SEE DRAINAGE PLAN, DRAWING D-18167, SHEET 1, FOR RIM ELEVATIONS.
4. NOTIFY BP PETROLEUM PRIOR TO ANY WORK.

LANDSCAPE NOTES

1. EXISTING NATIVE SHRUBS AND GROUNDCOVER SHALL BE RETAINED AND PROTECTED WITHIN THE TREE MANAGEMENT AREA AND OUTSIDE OF THE LIMITS OF CLEARING.
2. NEW PLANTS SHALL ONLY BE INSTALLED AFTER OCTOBER 1ST AND BEFORE APRIL 1ST.
3. GRUB EXISTING VEGETATION WITHIN 3 FOOT RADIUS FROM CENTER OF NEW PLANTS.
4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT OF DISCOVERY OF POOR SOILS, GROUNDWATER OR DISCREPANCIES IN THE EXISTING CONDITIONS AS NOTED ON THE PLANS.
5. NOXIOUS WEEDS SHALL BE REMOVED FROM ALL AREAS WITHIN THE LIMITS OF DISTURBANCE AND TREE MANAGEMENT AREA.
6. DISTURBED AREAS NOT RECEIVING LANDSCAPING OR CRITICAL AREA ENHANCEMENT SHALL RECEIVE HYDROSEED ONCE FINAL GRADE IS REACHED. SEE LANDSCAPE DETAILS FOR HYDROSEED SEED MIX.

REFERENCE DRAWINGS

- D-18160 TOPOGRAPHIC AND BOUNDARY SURVEY (PARCEL C) #102405-9130
- D-18164 TEMPORARY EROSION AND SEDIMENT CONTROL PLAN
- D-18167 DRAINAGE PLAN
- D-18166 GRADING PLAN



REVISION DESCRIPTION:		WD NUMBER: 111019489
CUP SUBMITTAL		
CAD	J. Nelson	DATE (M/D/Y)
ENGINEER	S. Kim	08/30/17
REVIEWED	E. Dahl	08/30/17
APPROVED	J. Henry	08/30/17

DRAFT LANDSCAPE PLAN 2
RICHARDS CREEK SUBSTATION

PUGET SOUND ENERGY	SUBSTATION ENGINEERING DEPARTMENT	DRAWING NO	REV NO
		D-19555	1
SCALE: 1" = 30'-0"		SHEET: 1 OF 2	FILE NO:
CADD NO: \$\$\$GNS\$		CODE:	

\$USERS\$

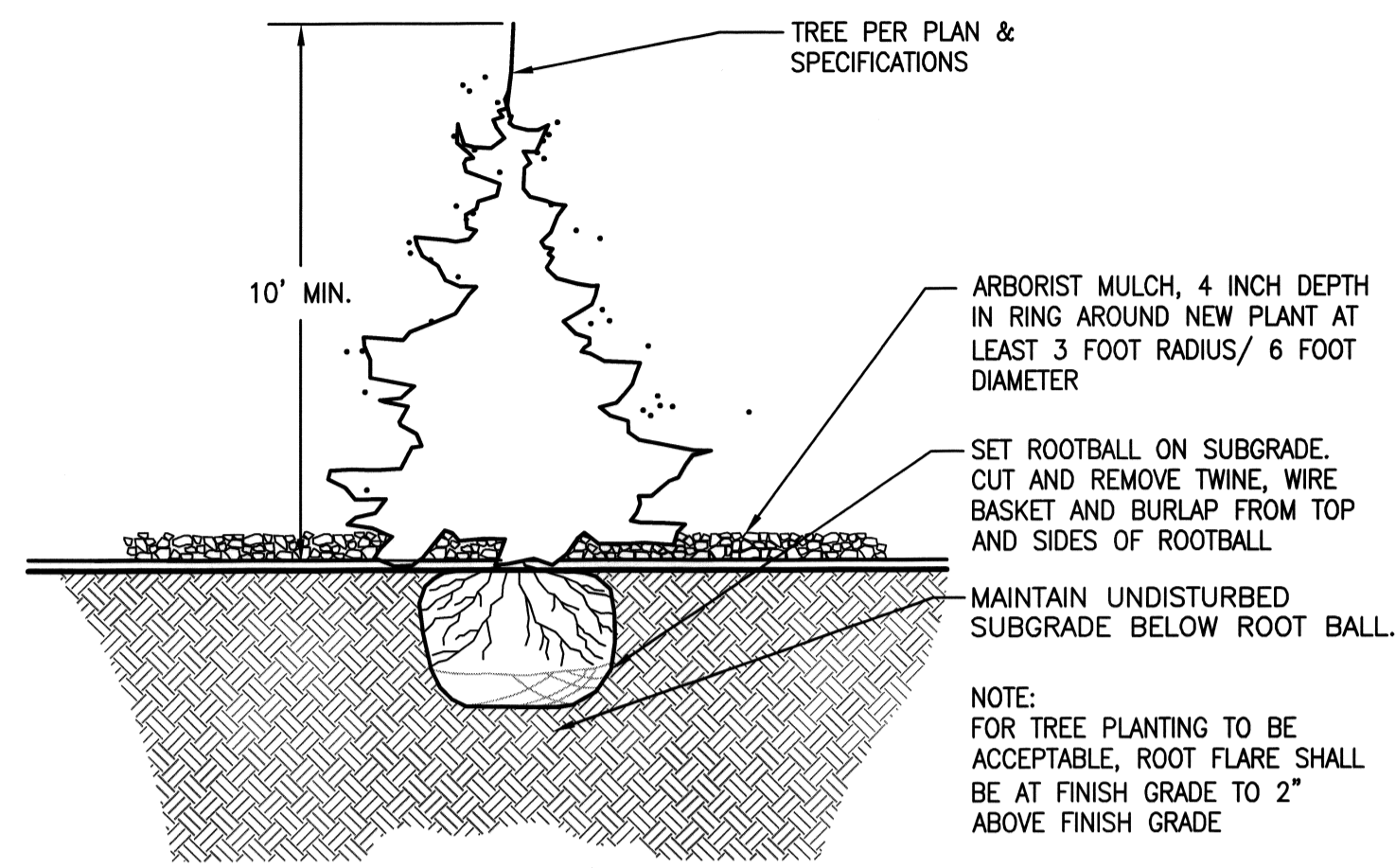
\$DATES\$

8 7 6 5 4 3 2 1

SECTION 10, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M.

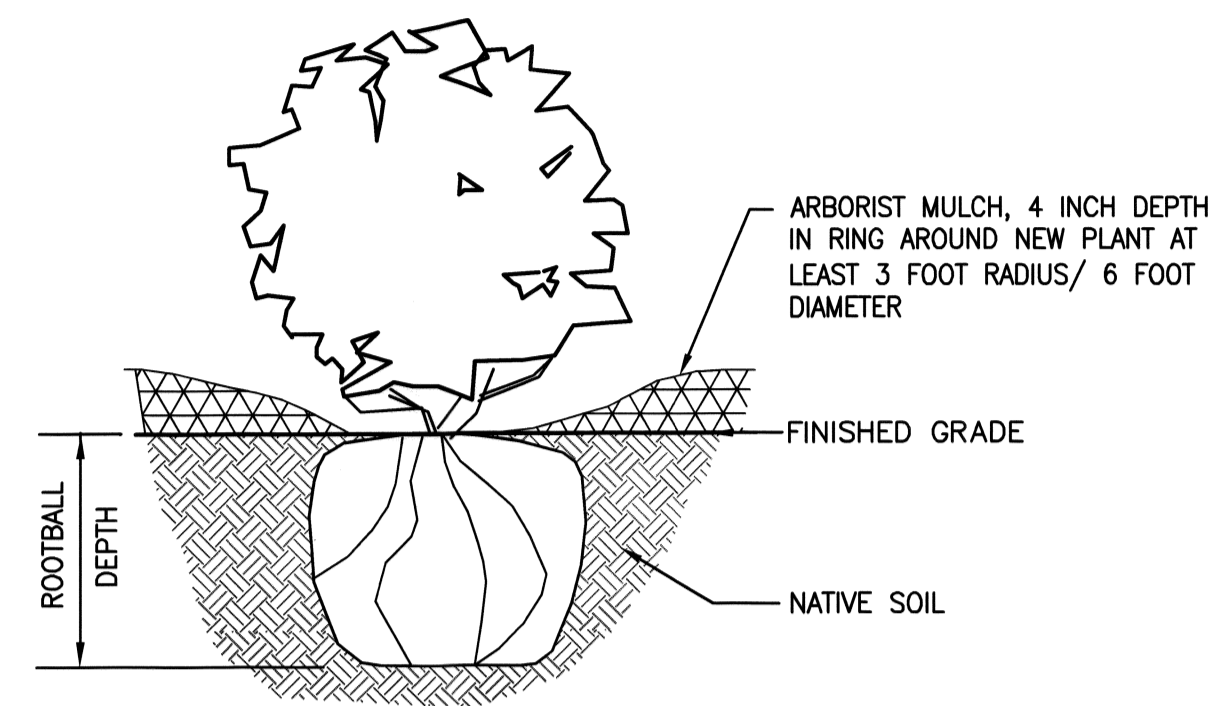
CITY OF BELLEVUE, KING COUNTY, WASHINGTON

PSE PARCEL 1024059130



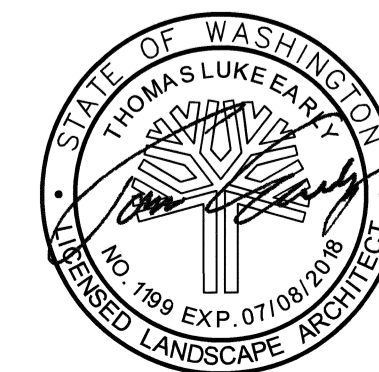
CONIFEROUS TREE PLANTING DETAIL

NOT TO SCALE



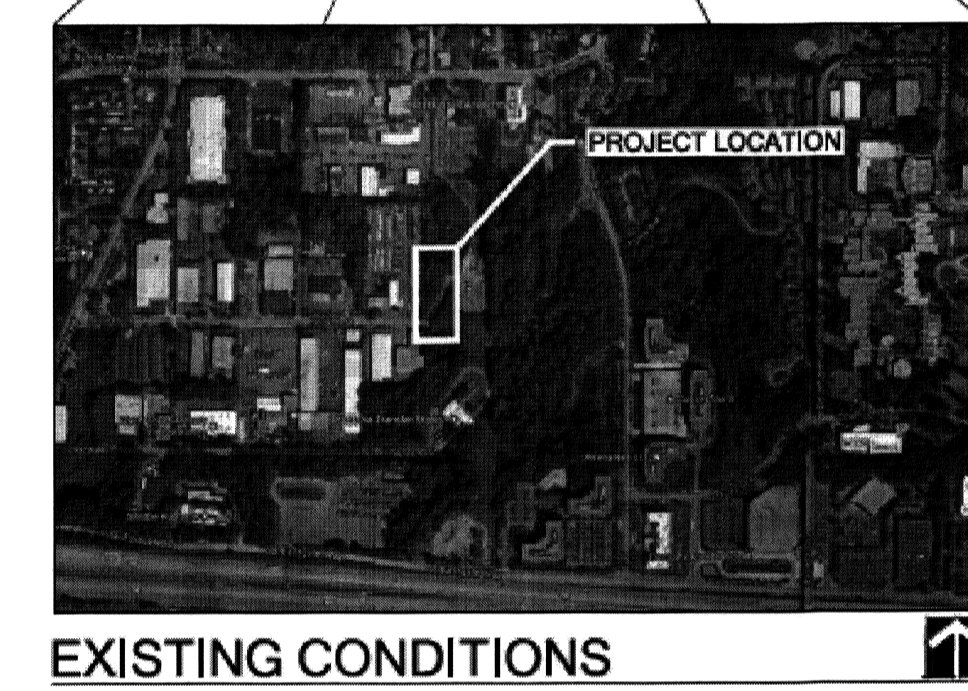
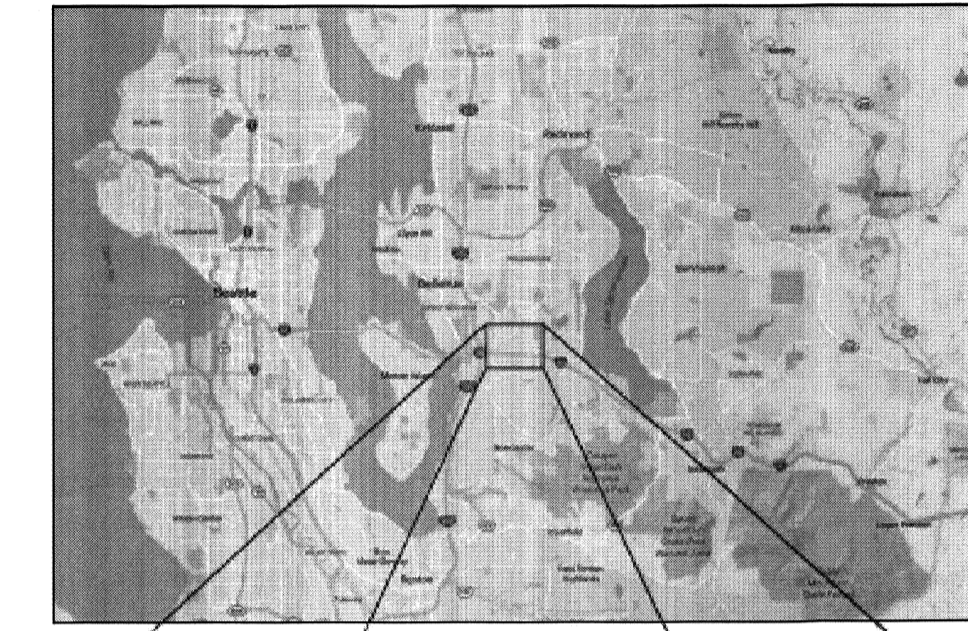
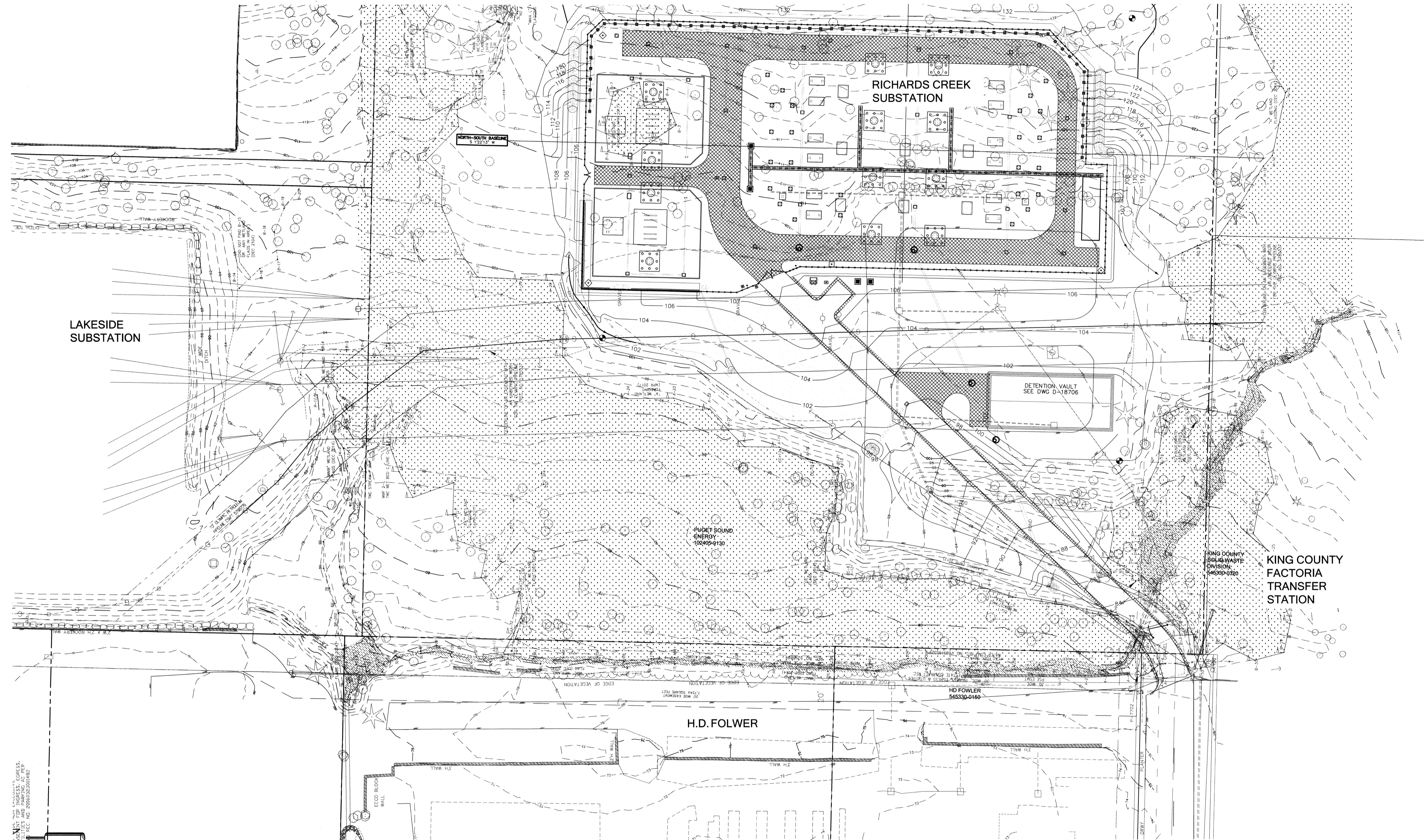
NATIVE SHRUBS PLANTING DETAIL

NOT TO SCALE



REVISION DESCRIPTION:		WO NUMBER: 111019489		DRAFT LANDSCAPE DETAILS RICHARDS CREEK SUBSTATION		
CUP SUBMITTAL						
CAD	J. Nelson	DATE (M/D/Y)	8/30/17	SUBSTATION ENGINEERING DEPARTMENT SCALE: 1" = 30'-0" CLASS: SITE CADD NO: \$\$\$GNS\$	DRAWING NO D-19555	REV NO 1
ENGINEER	S. KAM	08/30/17			SHEET: 2 OF 2	FILE NO:
REVIEWED	E. DAHL	08/30/17			CODE:	
APPROVED	J. HEWZY	08/30/17				

RICHARDS CREEK SUBSTATION: STREAM RESTORATION AND CULVERT REPLACEMENT



EXISTING CONDITIONS

MAP LEGEND

- EXISTING TREE
- EXISTING SURVEYED STREAM CHANNEL (OHWM)
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PSE PROPERTY BOUNDARY

NOTES

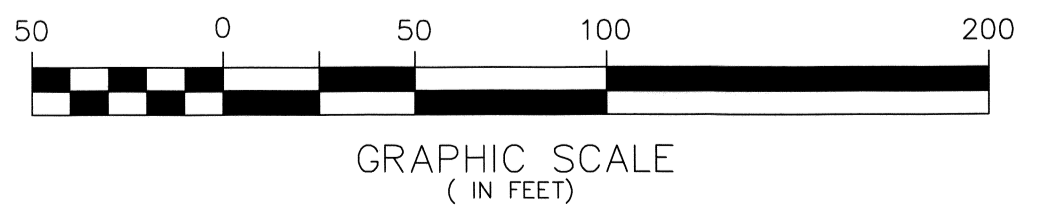
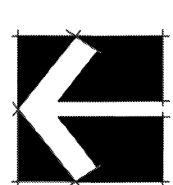
TOPOGRAPHIC SURVEY PROVIDED BY:
 APS SURVEYING AND MAPPING
 13221 SE 26TH STREET, SUITE A
 BELLEVUE, WA 98005
 TEL. 425-746-3200

VERTICAL DATUM: CITY OF BELLEVUE
 BENCHMARK 104

SHEET INDEX

- | | |
|--------------------------------------|--|
| 1.0 COVER | 6.22 LARGE WOODY DEBRIS ANCHOR DETAILS |
| 2.0 GENERAL NOTES, TESC & QUANTITIES | 7.0 PLANTING PLAN (1 OF 3) |
| 2.1 CONSTRUCTION SEQUENCE | 7.1 PLANTING PLAN (2 OF 3) |
| 2.2 EXISTING CONDITIONS | 7.2 PLANTING PLAN (3 OF 3) |
| 3.0 CHANNEL GRADING PLAN | 7.3 PLANTING NOTES & DETAILS (1 OF 2) |
| 3.1 TESC & DEMOLITION PLAN | 7.4 PLANTING NOTES & DETAILS (2 OF 2) |
| 3.2 TESC & DEMOLITION DETAILS | |
| 4.0 PROPOSED PLAN | |
| 5.0 CULVERT DESIGN | |
| 6.0 STATIONING & CROSS-SECTIONS | |
| 6.11 STREAM CROSS-SECTIONS | |
| 6.12 STREAM CROSS-SECTIONS | |
| 6.13 STREAM CROSS-SECTIONS | |
| 6.21 LARGE WOODY DEBRIS DETAILS | |

COVER SHEET
 SCALE 1"=50'



REVISION DESCRIPTION:		WO NUMBER: 141003252		RICHARDS CREEK SUBSTATION		
6/30/2017: 60% CITY OF BELLEVUE SUBMITTAL						
CAD	LM	DATE (M/D/Y)	06 / 13 / 17	PUGET SOUND ENERGY W-1.0 COVER SHEET	DRAWING NO D-18172	REV NO 0
ENGINEER	EM				SHEET: 1 OF 22	FILE NO: 111103
REVIEWED	EM				CLASS: SITE	CODE: RIC
APPROVED	S. KM	06 / 30 / 17			CADD NO:	

KING COUNTY STANDARD PLAN NOTES, RECOMMENDED CONSTRUCTION SEQUENCE, AND ADDITIONAL NOTES FROM KING COUNTY 2016 SURFACE WATER DESIGN MANUAL - APPENDIX D.4.1 STANDARD ESC AND SWPPS PLAN NOTES

STANDARD ESC PLAN NOTES

OMITTED TEXT HAS A STRIKE-THROUGH. TEXT ADDED BY THE WATERSHED COMPANY HAS AN UNDERLINE.

THE STANDARD ESC PLAN NOTES MUST BE INCLUDED ON ALL ESC PLANS. AT THE APPLICANT'S DISCRETION, NOTES THAT IN NO WAY APPLY TO THE PROJECT MAY BE OMITTED; HOWEVER, THE REMAINING NOTES MUST NOT BE RENUMBERED. FOR EXAMPLE, IF ESC NOTE #3 WERE OMITTED, THE REMAINING NOTES SHOULD BE NUMBERED 1, 2, 4, 5, 6, ETC.

- APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OF FENCING, IF REQUIRED, PRIOR TO CONSTRUCTION (SWDM APPENDIX D). DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK OUT TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, FLOW CONTROL BMP LOCATIONS (EXISTING AND PROPOSED), AND ADJACENT PROPERTIES IS MINIMIZED.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.) AS DIRECTED BY KING COUNTY.
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.
- ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO CONSECUTIVE DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- ANY AREA NEEDING ESC MEASURES THAT DO NOT REQUIRE IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH DURING THE DRY SEASON, BY-MONTHLY DURING THE WET SEASON, OR WITHIN TWENTY FOUR (24) HOURS FOLLOWING A STORM EVENT.
- AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE ROUGH GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY. FLOW CONTROL BMP AREAS (EXISTING OR PROPOSED) SHALL NOT BE USED AS TEMPORARY FACILITIES AND SHALL BE PROTECTED FROM SEDIMENTATION AND INTRUSION.
- COVER MEASURES WILL BE APPLIED IN CONFORMANCE WITH APPENDIX D OF THE KING COUNTY SURFACE WATER DESIGN MANUAL.

- PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE DPER INSPECTOR.

ESC PLAN RECOMMENDED CONSTRUCTION SEQUENCE

OMITTED TEXT HAS A STRIKE-THROUGH. TEXT ADDED BY THE WATERSHED COMPANY HAS AN UNDERLINE.

A DETAILED CONSTRUCTION SEQUENCE IS NEEDED TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE APPLIED AT THE APPROPRIATE TIMES. A RECOMMENDED CONSTRUCTION SEQUENCE IS PROVIDED BELOW:

- HOLD THE PRE-CONSTRUCTION MEETING.
- POST SIGN WITH NAME AND PHONE NUMBER OF CSWPP/ESC SUPERVISOR (MAY BE CONSOLIDATED WITH THE REQUIRED NOTICE OF CONSTRUCTION SIGN).
- FLAG OR FENCE CLEARING LIMITS.
- INSTALL CATCH BASIN PROTECTION, IF REQUIRED-INSTALL FLOW CONTROL BMP AREA PROTECTION, IF REQUIRED.
- GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
- INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
- CONSTRUCT SEDIMENT PONDS AND TRAPS.
- GRADE AND STABILIZE CONSTRUCTION ROADS.
- CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT. CONSTRUCT SWPPS IN ANTICIPATION OF SCHEDULED CONSTRUCTION ACTIVITY (E.G., CONCRETE-RELATED PH MEASURES FOR UTILITY, VAULT OR ROADWAY CONSTRUCTION).
- MAINTAIN EROSION CONTROL AND SWPPS MEASURES IN ACCORDANCE WITH KING COUNTY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- RELOCATE EROSION CONTROL AND SWPPS MEASURES, OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL AND POLLUTANT PROTECTION IS ALWAYS IN ACCORDANCE WITH THE KING COUNTY CONSTRUCTION STORMWATER POLLUTION PREVENTION STANDARDS.
- COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, OR EQUIVALENT.
- STABILIZE ALL AREAS WITHIN SEVEN DAYS OF REACHING FINAL GRADE.
- SEED, SOD, STABILIZE, OR COVER ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
- UPON COMPLETION OF THE PROJECT, STABILIZE ALL DISTURBED AREAS AND REMOVE BMPS IF APPROPRIATE.

FROM KING COUNTY 2016 SURFACE WATER DESIGN MANUAL - APPENDIX D.4.2 RECOMMENDED CONSTRUCTION SEQUENCE.

GENERAL CONSTRUCTION SEQUENCE

- INSTALL ALL BMPS INDICATED IN CONSTRUCTION PLAN SET.
- GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
- GRADE AND STABILIZE ALL ACCESS ROADS.
- INSTALL TREE PROTECTION FENCING.
- CLEAR AND GRUB AREAS WITHIN GRADING LIMITS (SHEET 3.0).
- INSTALL SANDBAGS AND FLOW DIVERSION PIPE(S).
- CONSTRUCT STREAM ACCORDING TO PROPOSED GRADES (SHEET 4.0).
- INSTALL CULVERT AND BRING SURROUNDING AREA TO FINAL GRADES.
- REPAIR ACCESS ROAD PAVING REMOVED FOR CULVERT INSTALLATION.
- INSTALL LARGE WOODY DEBRIS (SHEETS 3.0, 6.1, AND 6.2).
- APPLY GRAVEL/ COBBLE/ BOULDER MIX AND TOPSOIL TO BRING SITE TO FINAL GRADES (SHEET 4.0 AND 6.1).
- APPLY TOPSOIL AND COMPOST.
- INSTALL PLANTINGS (SHEETS 7.0 - 7.4).
- APPLY MULCH AND SOIL STABILIZATION MATERIALS.
- REMOVE ALL BMPS, REFUSE, AND FENCES.

CLEARING, GRADING & TEMPORARY EROSION CONTROL - GENERAL

- ALL CLEARING AND GRADING WORK SHALL MEET THE REQUIREMENTS AS SET FORTH IN APPLICABLE CITY CODE SECTIONS.
- TEMPORARY EROSION/SEDIMENT CONTROLS SHALL BE INSTALLED AND OPERATING PRIOR TO ANY GRADING OR CONSTRUCTION-RELATED SOIL DISTURBANCE. THESE CONTROLS MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION IS COMPLETE AND ALL EXPOSED SOILS ARE STABILIZED BY HYDROSEEDING OR MULCHING.
- ADDITIONAL EROSION-CONTROL MEASURES MAY BE REQUIRED BY CITY REPRESENTATIVES DEPENDING ON SITE AND WEATHER CONDITIONS. ANY WORK PERFORMED DURING THE RAINY SEASON, OCTOBER 1 THROUGH APRIL 30, SHALL REQUIRE A PLAN TO LIMIT THE EXTENT OF SOIL EXPOSURE.
- AT THE DISCRETION OF THE RESPONSIBLE BUILDING OFFICIAL, WORK MAY BE SUSPENDED DURING PERIODS OF INCLEMENT WEATHER TO REDUCE ACTUAL OR POTENTIAL EROSION AND/OR SEDIMENTATION.
- WHEN WORK IS STOPPED OR COMPLETED IN AN AREA, ADDITIONAL EROSION CONTROL MAY BE REQUIRED, INCLUDING SEEDING OR OTHER MEASURES.
- ANY WATER RUNOFF FROM THE PROJECT AREA BEING DISCHARGED TO A STORMWATER SYSTEM DURING CONSTRUCTION SHALL NOT EXCEED TURBIDITY VALUES OF 50 NTUS AND, IN ADDITION, SHALL MEET THE REQUIREMENTS OF THE 1972 CLEAN WATER ACT.
- LOCATIONS SHOWN OF EXISTING UTILITIES MAY BE INCOMPLETE AND ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, CORRECT AND DETERMINE ANY ADDITIONAL LOCATIONS SO AS TO AVOID DAMAGE OR DISTURBANCE.
- ALL NATIVE VEGETATION IS TO REMAIN UNDISTURBED OUTSIDE OF GRADED AREAS, ACCESS CORRIDORS, AND/OR TO-BE-REPLANTED AREAS.
- FLOW FROM IMPERVIOUS SURFACES, INCLUDING TRAILS AND ACCESS ROADS, SHALL BE CONNECTED TO A DRAINAGE SYSTEM AS SOON AS POSSIBLE.

CLEARING, GRADING & TEMPORARY EROSION AND SEDIMENTATION - SPECIFIC

- LOCATING AND DELINEATING THE GRADING LIMITS AND ALL EXISTING TREES AND OTHER BEGETATION TO BE PRESERVED WITHIN THE WORK AREA AS INDICATED ON THE PLAN VIEW DRAWINGS AND AS DIRECTED BY THE STREAM RESTORATION CONSULTANT.
- INSTALLING CONSTRUCTION ACCESS PAD(S) AT LOCATION(S) IDENTIFIED ON PLAN AND PER APPROPRIATE DETAIL.
- MAINTAINING A SWEEPER ON-SITE AND IMMEDIATELY REMOVING ANY SOIL THAT IS TRACKED ONTO PAVED SURFACES AS A RESULT OF CONSTRUCTION.
- STABILIZING ALL EXPOSED SOILS BY SUITABLE APPLICATION OF BEST MANAGEMENT PRACTICES (CMPS), INCLUDING, BUT NOT LIMITED TO, PLASTIC COVERING, MULCHING, OR SODE OR OTHER VEGETATION. SEEDING AND STRAW MULCHING (3" DEPTH) OF EXPOSED SOILS IS TO OCCUR WITHIN SEVEN DAYS OF CHANNEL WORK AND RESTORATION FEATURE COMPLETION FRO EACH DISTINCT STREAM SEGMENT OR SEPARATE WORK AREA. FROM OCTOBER 1 THROUGH APRIL 30, NO UNWORKED SOIL SHALL REMAIN EXPOSED FOR MORE THAN 48 HOURS. FROM MAY 1 THROUGH SEPTEMBER 30, NO UNWORKED SOIL SHALL REMAIN EXPOSED FOR MORE THAN SEVEN DAYS.
- PUMP SYSTEM TO TREAT OR INFILTRATE TURBID SEEPAGE WATER BEFORE DISCHARGING BACK INTO THE CREEK.
- FUELING OF BEHICLES AT LEAST 100 FEET FROM OPEN WATER, AND SPILL KITS FOR THOSE VEHICLES.
- POSTING A PUBLIC INFORMATION SIGN LISTING 24-HOUR EMERGENCY PHONE NUMBERS FOR THE CITY AND THE CONTRACTOR. THE SIGN MUST BE POSTED AT THE PROJECT SITE IN FULL VIEW OF THE PUBLIC AND THE CONTRACTORS, AND IT MUST REMAIN POSTED UNTIL FINAL SIGN OFF BY THE CITY CLEARING AND GRADING INSPECTOR OR EQUIVALENT PARTY.
- REMOVAL OF ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPS WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY BMPS ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM BMP REMOVAL SHALL BE PERMANENTLY STABILIZED.

MATERIALS & QUANTITIES

ITEM	QUANTITY	UNIT
SILT AND CONSTRUCTION FENCING	750	LF
EROSION CONTROL WATTLE	1000	LF
SEDIMENT CURTAIN - INSTALLATION, REMOVAL AND MAINTENANCE	0	LF
TEMPORARY BYPASS		
SANDBAG	20	EA
BYPASS PIPE	200	LF
DEWATERING PUMP	1	
FISH EXCLUSION/ CREEK RAMPING	1	LS
LOG INSTALLATION (INCLUDING HARDWARE)		
ROOTWAD	4	EA
BARB LOG	9	EA
FILL		
GRAVEL/ COBBLE/ BOULDER MIX	225	CY
TOPSOIL, TYPE A (IMPORTED COMPOST)	100	CY
MULCH	28	CY
ACCESS ROAD ASPHALT REPAIR		
ASPHALT	600	CF
SUBGRADE (CASE COURSE, UNTREATED, 3/4")	17	CY
BOX CULVERT AND SEDIMENT VAULT	1	EA

NOTE: GRAVEL/COBBLE/BOULDER MIX SHALL CONSIST OF WELL-GRADED, ROUNDED GRAVEL COBBLES, AND SMALL BOULDERS, AND CONFORMING TO THE BELOW SIZE GRADATION BY WEIGHT.

MIX TO BE APPLIED TO SECTION OF STREAM UPSTREAM OF THE PROPOSED CULVERT:

<3/8" (MIN 5% FINES)	10%
3/8 TO 3 INCHES	10%
3 TO 6 INCHES	15%
6 TO 12 INCHES	15%
12 TO 18 INCHES	15%
18 TO 24 INCHES	15%
24 TO 36 INCHES	10%
36 INCHES AND LARGER	10%

MIX TO BE APPLIED TO SECTION OF STREAM DOWNSTREAM OF THE PROPOSED CULVERT:

FINES <0.004" (0.1 mm)	5%
0.004" to 1/4 INCH	10%
1/4 TO 3/4 INCH	15%
3/4 TO 1-1/2 INCHES	30%
1-1/2 TO 3 INCHES	25%
3 TO 5 INCHES	15%

NOTES

- REFER TO DETAILS ON SHEET 6.3.
- FINAL LOG STRUCTURE PLACEMENT IN FIELD SHALL TAKE PLACE AFTER FOOTING REPAIRS AND SHALL BE DIRECTED BY A STREAM RESTORATION SPECIALIST.
- ANCHOR LOGS USING EARTH ANCHORS AS FEASIBLE.
- IF BOULDERS ARE USED MEET ANCHORING REQUIREMENTS AS PROVIDED IN THE DETAILS AND SPECIFICATIONS.

MATERIAL SPECIFICATIONS AND DEFINITIONS

ANCHORS: ANCHORS SHALL CONSIST OF MANTA RAY MR-3 EARTH ANCHORS OR EQUIVALENT. ANCHORS TO BE DRIVEN MINIMUM 6 FEET (72 INCHES) INTO GROUND (OR PER MANUFACTURER'S RECOMMENDATIONS) AT AN ANGLE APPROXIMATELY 15 TO 30 FROM VERTICAL AIMED AWAY FROM THE CENTER OF THE CHANNEL AND UPSTREAM. ALL ANCHORS SHALL BE SET AND LOAD TESTED TO APPROXIMATELY 5,000 LBS. IF MR-3 ANCHORS ARE UNABLE TO ACHIEVE SPECIFIED LOAD RATING, THEN A LARGER ANCHOR (MR-2 OR MR-1) SHALL BE SUBSTITUTED THAT MEETS SPECIFIED LOAD RATING. ALTERNATIVELY, IF MR-3 ANCHORS ARE UNABLE TO BE DRIVEN TO DESIRED LEVEL, A SMALLER ANCHOR (MR-4 OR MR-88) SHALL BE USED AND SET TO THE SAME LOAD RATING.

VEGETABLE COMPOST: COMPOST SHALL BE CEDAR GROVE OR EQUAL PRODUCT (TYPE A) CONTAINING 100% COMPOSED VEGETABLE MATTER AND NO VIABLE WEED SEEDS OR PARTS.

WOOD CHIP MULCH: CHIPPED WOODY MATERIAL APPROXIMATELY 1 TO 4 INCHES IN MAXIMUM DIMENSION (NOT SAWDUST OR HOG FUEL). ALSO KNOWN AS ARBORIST CHIPS.

FERTILIZER: THE SLOW RELEASE, GRANULAR FERTILIZER APPLICATIONS SHOULD BEGIN AFTER THE SHRUBS AND GROUNDCOVERS HAVE HAD A YEAR OF GROWTH. EARLY APPLICATION OF FERTILIZER BENEFITS INVASIVE WEEDS TO THE DISADVANTAGE OF THE NEWLY INSTALLED NATIVE PLANTS. FOLLOW MANUFACTURERS' INSTRUCTIONS FOR APPLICATION. KEEP ALL FERTILIZERS IN WEATHER-TIGHT CONTAINERS WHILE ON SITE.

CLEARING, GRADING & TEMPORARY EROSION CONTROL - GENERAL

- ALL CLEARING AND GRADING WORK SHALL MEET THE REQUIREMENTS AS SET FORTH IN APPLICABLE CITY CODE SECTIONS.
- A PRECONSTRUCTION MEETING SHALL BE HELD WITH CITY, CONTRACTOR, AND DESIGNER REPRESENTATIVES PRESENT, AND ALL REQUIRED PERMITS MUST BE APPROVED PRIOR TO START OF CONSTRUCTION. CONDUCT WEEKLY PROGRESS MEETINGS WITH CONTRACTOR AND DESIGNER REPRESENTATIVES PRESENT.
- TEMPORARY EROSION/SEDIMENT CONTROLS SHALL BE INSTALLED AND OPERATING PRIOR TO ANY GRADING OR CONSTRUCTION-RELATED SOIL DISTURBANCE. THESE CONTROLS MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION IS COMPLETE AND ALL EXPOSED SOILS ARE STABILIZED BY HYDROSEEDING OR MULCHING WITH STRAW.

GENERAL NOTES, TESC & QUANTITIES



REVISION DESCRIPTION:		WO NUMBER: 141003252		RICHARDS CREEK SUBSTATION		
6/30/2017: 60% CITY OF BELLEVUE SUBMITTAL						
CAD	LM	DATE (M/D/Y)		W-2.0 GENERAL NOTES, TESC & QUANTITIES	DRAWING NO D-18172	REV NO 0
ENGINEER	EM	/ /		SHEET: 2 OF 22		
REVIEWED	EM	/ /		CLASS: SITE		FILE NO: 111103
APPROVED	<i>S. Kim</i>	06/14/17		CADD NO:		CODE: RIC

CONSTRUCTION SEQUENCE

GENERAL CONSTRUCTION WORK SEQUENCE:

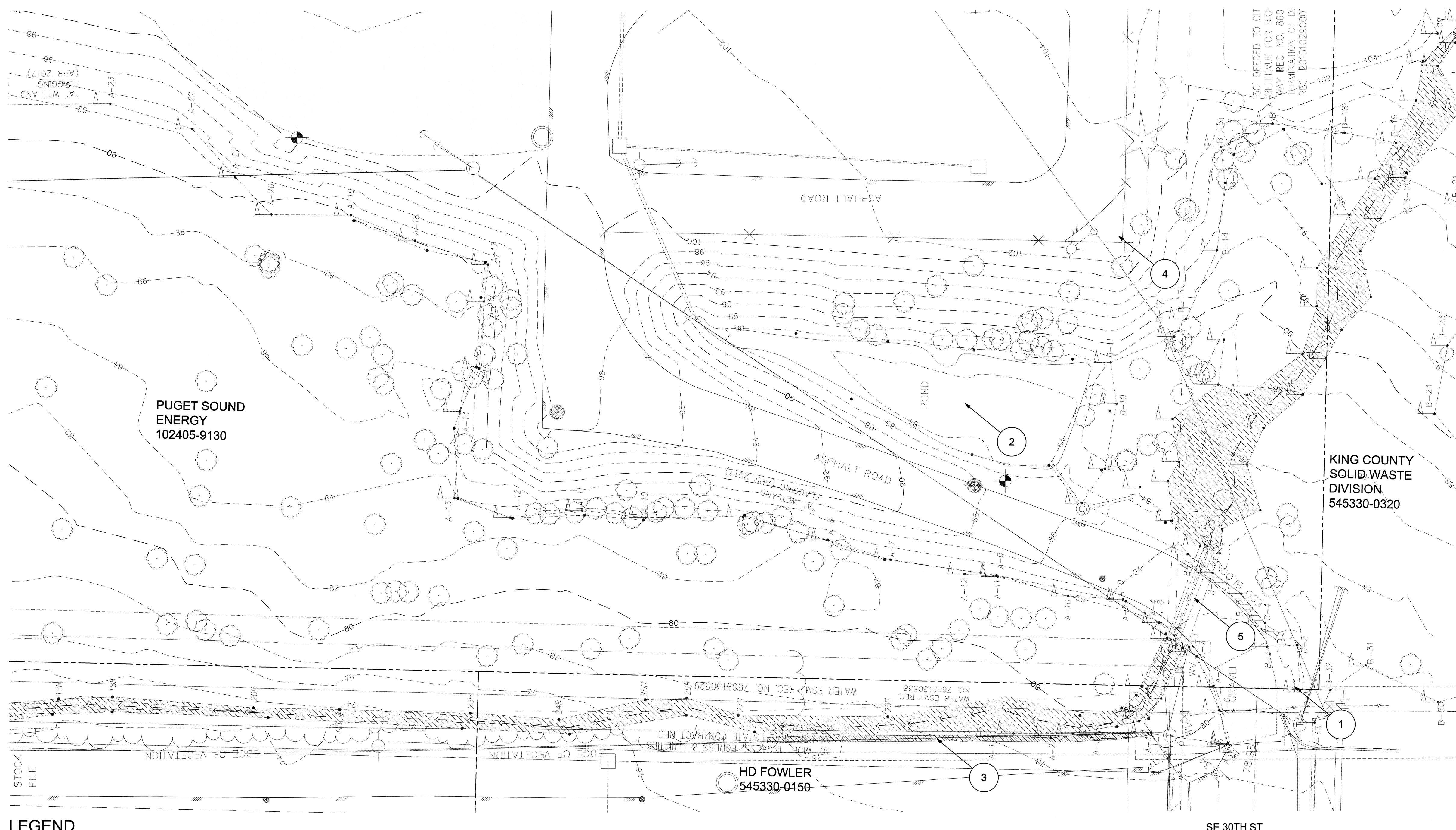
1. INSTALL ALL TEMPORARY EROSION CONTROL MEASURES, GENERAL AND SITE-SPECIFIC, AS NOTED ON THE PLANS AND SUPPORTING DOCUMENTS OR AS REQUIRED BY VARIOUS PERMITS AND AUTHORIZATIONS. SEE NOTES AND PLANS ON SHEET W-4.1 AND W-4.2.
2. CLEAR AND GRUB WITHIN GRADING LIMITS.
3. CONSTRUCT A TEMPORARY GRAVEL BAG DIVERSION DAM (OR APPROVED ALTERNATE) ACROSS THE STREAM CHANNEL AT OR UPSTREAM OF THE LIMIT OF THE AFFECTED IN-STREAM WORK AREA, TO CREATE A POOL. PLACE FLEXIBLE DIVERSION PIPES TO CARRY FLOW AND ANY FISH IN THE UPSTREAM POOL TO THE INDICATED POINT DOWNSTREAM OF THE WORK AREA. THE DISCHARGE IS TO BE POSITIONED TO MINIMIZE EROSION OR TURBIDITY RESULTING FROM THE DISCHARGE VELOCITY OF THE WATER.
4. CONSTRUCT A SEDIMENT TRAP WITH A SUMP PUMP AT THE DOWNSTREAM LIMIT OF THE AFFECTED WORK AREA TO RETAIN ANY SILT-LADEN WATER THAT MAY COLLECT AS A RESULT OF IMPLEMENTATION ACTIVITIES. COLLECTED SILT-LADEN WATER IS TO BE PUMPED TO UPLAND AREAS FOR DISCHARGE/DISPERSAL BY PERFORATED PIPE AND BIOFILTRATION AND/OR INFILTRATION IN WETLAND AREAS.
5. THE CONTRACTOR SHALL NOTIFY THE STREAM RESTORATION SPECIALIST 3 WORKING DAYS IN ADVANCE OF DEWATERING TO ALLOW FOR FISH REMOVAL. ANY FISH ISOLATED IN THE LOCALIZED IN-STREAM WORK AREA WILL BE REMOVED BY THE STREAM RESTORATION SPECIALIST IN THE WORK AREA. GIVEN THE SIZE AND CHARACTERISTICS OF THE EXISTING STREAM, IT IS EXPECTED THAT STRANDED FISH CAN BE LOCATED AND CAPTURED USING DIPNETS OR SMALL SEINES, FOLLOWED BY ELECTROFISHING. EFFORTS TO CAPTURE AND RELOCATE FISH BY NETTING METHODS ARE TO PRECEDE ELECTROFISHING. CAPTURED FISH ARE TO BE RELEASED IN UNAFFECTED REACHES DOWNSTREAM OF THE PROJECT AREA.
6. EXCAVATE STREAM ACCORDING TO THE GRADING PLAN, PROFILE, AND CROSS-SECTIONS. EXCAVATE THE MAIN CHANNEL (DOWN TO THE ELEVATION OF THE BENCHES). UNDER SUPERVISION OF THE STREAM RESTORATION SPECIALIST, FLAG AND THEN EXCAVATE THE LOW FLOW CHANNEL.
7. REMOVE ACCESS ROAD ASPHALT WITHIN GRADING LIMITS AND EXCAVATE ACCORDING TO SHEETS W-4.0 AND W-4.1.
8. INSTALL CULVERT ACCORDING TO SHEETS W-5.0 AND W-5.1.
9. EXCAVATE DEPRESSIONS IN THE STREAM CHANNEL BOTTOM TO ACCOMMODATE THE PLACEMENT OF THE PROPOSED LOG STRUCTURES. MATERIAL EXCAVATED FROM THE CHANNEL MAY BE RE-USED AS DIRECTED. PLACE LOG STRUCTURES IN GROUPINGS AND ACCORDING TO TYPE AND POSITIONING AS LAID OUT IN DETAIL IN THE PROJECT PLANS.
10. PLACE LOG STRUCTURES ACCORDING TO SHEETS W-3.0, W-6.1, AND W-6.2. INSTALL EARTH ANCHOR SYSTEMS AND PLACE GRAVEL/ COBBLE/ BOULDER MIX.
11. BRING STREAM TO FINAL GRADE WITH GRAVEL/ COBBLE/ BOULDER MIX (SEE SHEETS W-2.0 AND W-6.2 FOR DETAILS).
12. FOLLOWING COMPLETION OF IN-STREAM WORK, ENSURE THAT MULCH, BLANKET AND OTHER EROSION CONTROLS ARE INSTALLED AND IN GOOD CONDITION ALONG STREAMBANKS BORDERING AREAS TO BE PLANTED, AND DOWNSLOPE OF ANY OTHER DISTURBED AREAS.
13. ANY SILT-LADEN WATER COLLECTING IN THE IN-STREAM WORK AREA FOLLOWING CESSATION OF IN-WATER WORK ACTIVITIES IS TO BE ALLOWED TO SETTLE OR DISSIPATE PRIOR TO RECONNECTING THE DE-WATERED WORK AREA TO THE FLOWING STREAM BY REMOVAL OF FIRST THE DOWNSTREAM THEN THE UPSTREAM TEMPORARY GRAVEL BAG DIVERSION DAM AND ASSOCIATED BYPASS PIPING.
14. INSTALL PLANTINGS ACCORDING TO SHEETS W-7.0 - W-7.3.
15. WATER PLANTS AS NEEDED DURING DRY CONDITIONS THROUGHOUT THE FIRST YEAR POST-PLANTING.
16. REMOVE ALL REFUSE, TESC MEASURES AND BMPS.

CONSTRUCTION SEQUENCE

SCALE 1"=20'



REVISION DESCRIPTION:		WO NUMBER: 141003252		RICHARDS CREEK SUBSTATION		
6/30/2017:60% CITY OF BELLEVUE SUBMITTAL						
		DATE (M/D/Y)	 PUGET SOUND ENERGY	W-2.1 CONSTRUCTION SEQUENCE	DRAWING NO D-18172	REV NO 0
CAD	LM	06 / 13 / 17		SHEET: 3 OF 22	CLASS: SITE	FILE NO: 111103
ENGINEER	EM	/ /			CODE: RIC	
REVIEWED	EM	/ /				
APPROVED	<i>S. Kim</i>	06 / 14 / 17	CADD NO:			

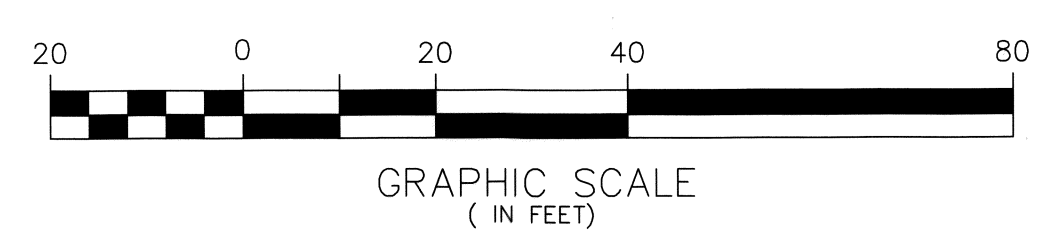
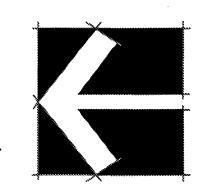


LEGEND

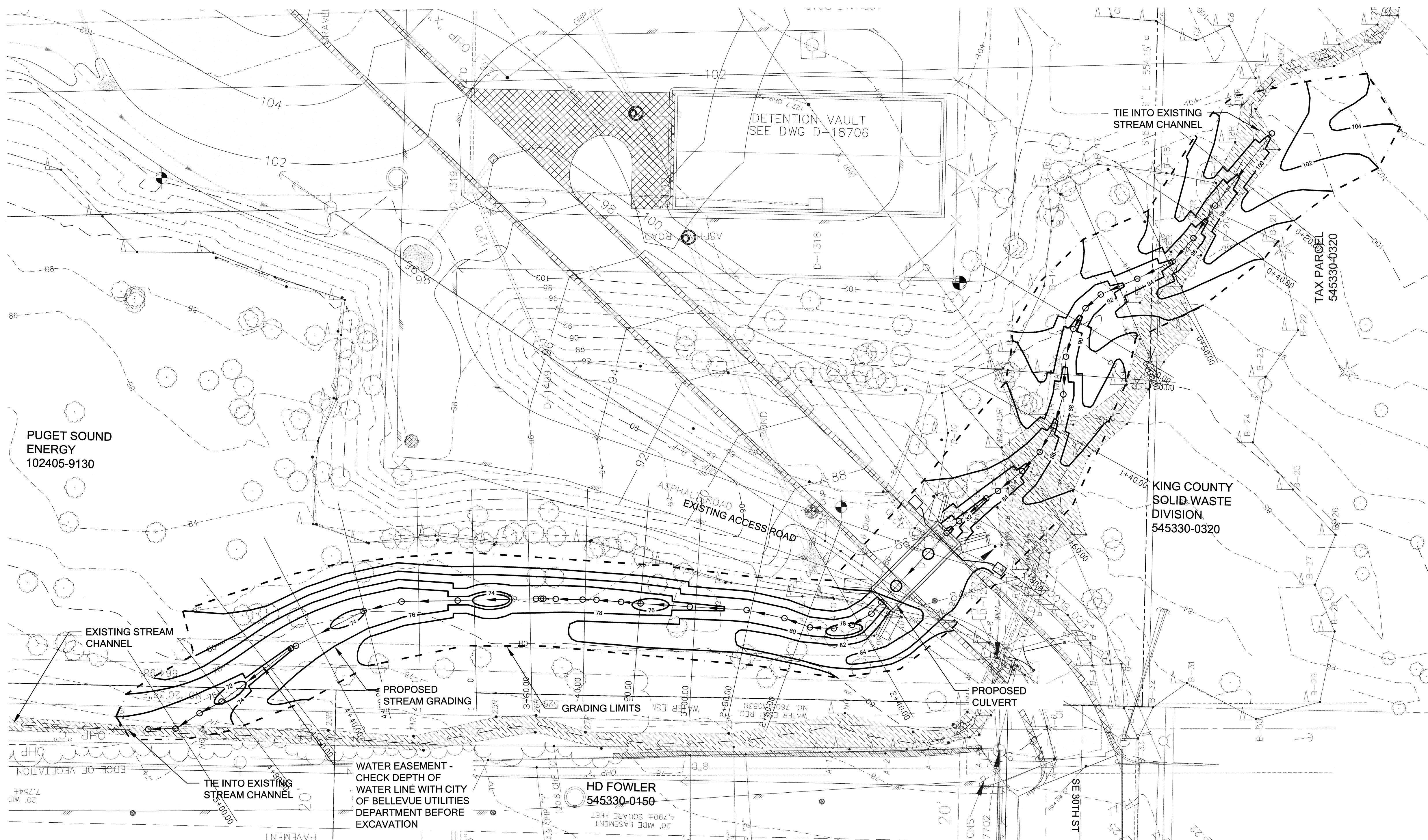
- EXISTING TREE
- EXISTING SURVEYED STREAM CHANNEL (OHWM)
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PSE PROPERTY BOUNDARY

- ① SECTION OF STREAM DAYLIGHTED FOR 15' LF BEFORE ENTERING INTO STORM DRAIN
- ② STORMWATER POND
- ③ ECO BLOCK RETAINING WALL
- ④ GRAVEL EQUIPMENT STORAGE LOT
- ⑤ 2 - 18" CORRUGATED METAL PIPES

EXISTING CONDITIONS
SCALE 1"=20'

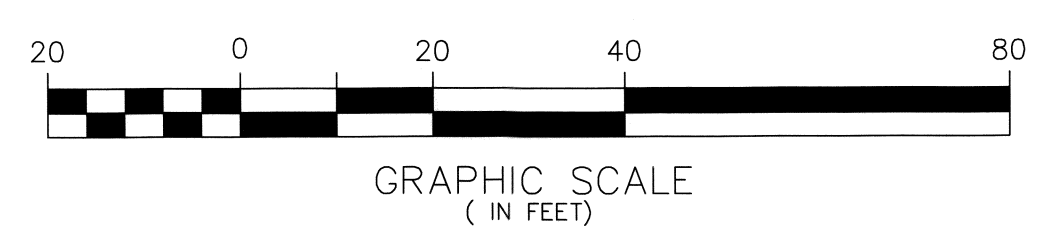
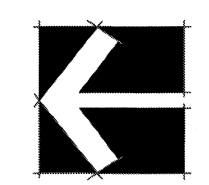


REVISION DESCRIPTION:		WO NUMBER: 141003252		RICHARDS CREEK SUBSTATION		
6/30/2017: 60% CITY OF BELLEVUE SUBMITTAL						
CAD	LM	DATE (M/D/Y)	06 / 13 / 17	PUGET SOUND ENERGY W-2.2 EXISTING CONDITIONS CLASS: SITE	DRAWING NO D-18172	REV NO 0
ENGINEER	EM	/ /	/ /		FILE NO: 11110.3	
REVIEWED	EM	/ /	/ /		CODE: RIC	
APPROVED	S. KIM	08 / 14 / 17				

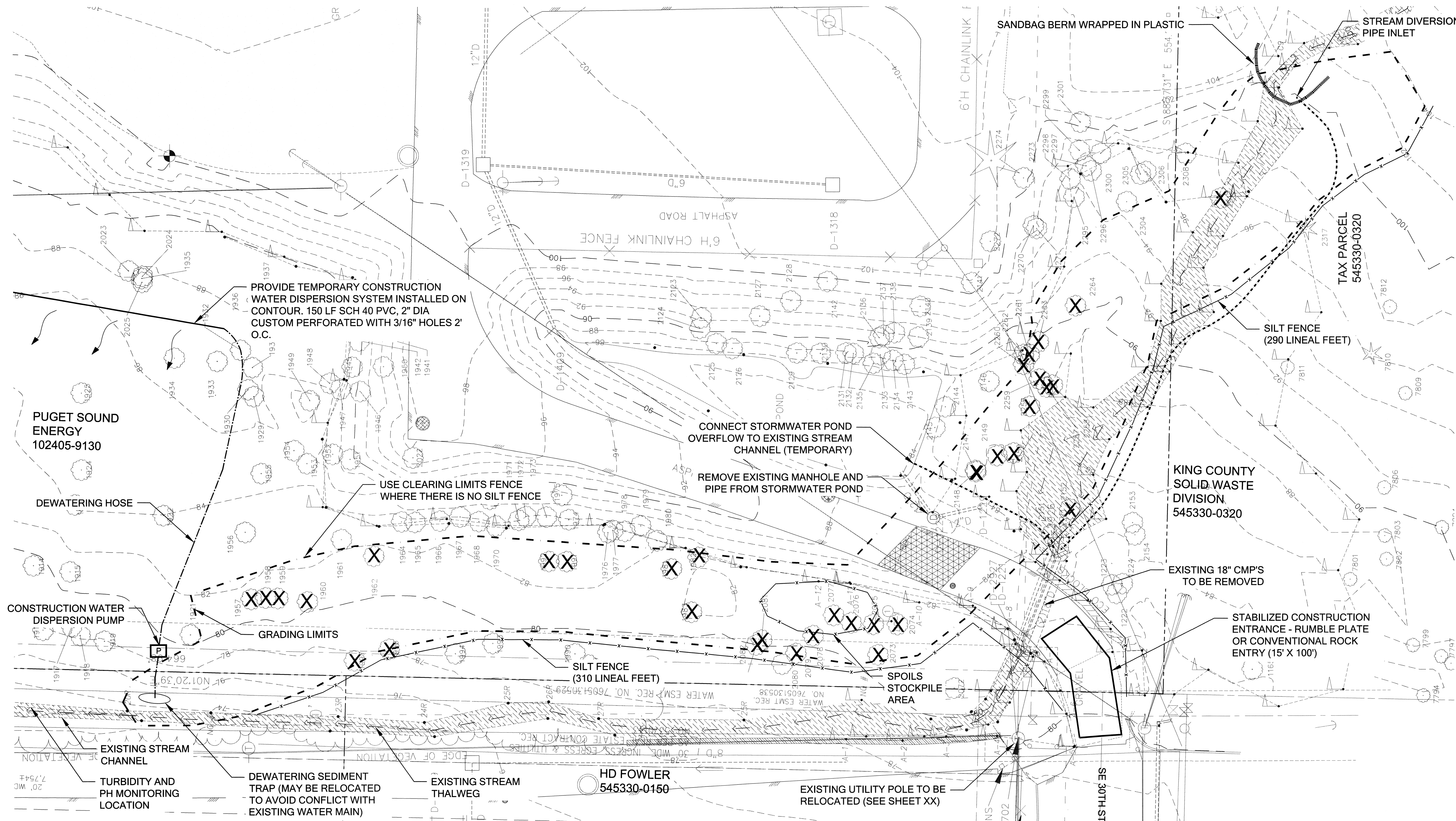


- LEGEND**
- EXISTING CHANNEL
 - EXISTING TREE
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - PROPOSED CONTOURS
 - PSE PROPERTY BOUNDARY
 - GRADING LIMITS
 - XS STATION (SEE 6.11 - 6.13)

GRADING PLAN
SCALE 1"=20'



REVISION DESCRIPTION:		WO NUMBER: 141003252		RICHARDS CREEK SUBSTATION		
6/30/2017: 60% CITY OF BELLEVUE SUBMITTAL						
CAD	LM	DATE (M/D/Y)	06 / 13 / 17	 PUGET SOUND ENERGY W-3.0 CHANNEL GRADING PLAN CLASS: SITE	DRAWING NO D-18172	REV NO ○
ENGINEER	EM	/ /	/ /		SHEET: 5 OF 22	FILE NO: 111103
REVIEWED	EM	/ /	/ /		CODE: RIC	
APPROVED	<i>S. Kim</i>	08 / 20 / 17			CADD NO:	



LEGEND

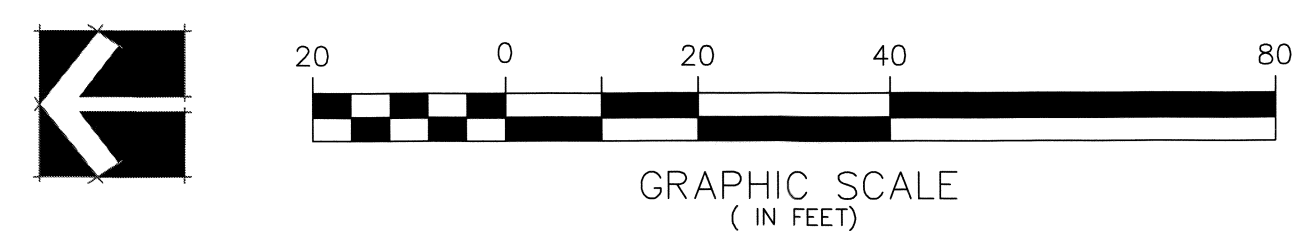
- EXISTING CHANNEL
- EXISTING TREE TO BE REMOVED
- GRADING LIMITS
- DIVERSION PIPE (210 LF)
- DEWATERING HOSE AND PUMP
- ASPHALT (TO BE REMOVED)
- SILT FENCE
- SANDBAG BERM

TREE REMOVAL TABLE

REFS.	TREE DESC.	DIA. (INCHES)	REFS.	TREE DESC.	DIA. (INCHES)	REFS.	TREE DESC.	DIA. (INCHES)	REFS.	TREE DESC.	DIA. (INCHES)
1957	ALDER	14	1962	POPLAR	12 10	2077	ALDER	9 8	2258	ALDER	9
1958	ALDER	14	1981	ALDER	8	2078	ALDER	10 8 6 5	2260	ALDER	9
1959	ALDER	12	1982	ALDER	9 8 7	2079	ALDER	8 7	2261	ALDER	8
1960	ALDER	9 15				2081	ALDER	10	2262	ALDER	9
			1983	ALDER	18	2082	ALDER	9	2263	ALDER	8
			1991	ALDER	12				2264	ALDER	10 5
			1992	ALDER	13	2147	ALDER	9			
			1996	ALDER	10	2148	ALDER	10	2317	ALDER	9
			1997	ALDER	8	2149	POPLAR	12 6			
			2073	ALDER	8 5	2150	POPLAR	14 12 10			
			2074	ALDER	12 11	2152	POPLAR	CLUSTER 15 TREES			
			2075	ALDER	(2)8			3"-9" (15' DIA.)			
			2076	ALDER	9	2256	ALDER	9			
						2257	ALDER	8			

- NOTES**
- DIVERSION SHALL BE FLEXIBLE PIPE DESIGNED TO CONVEY THE 25-YR FLOW DURING THE CONSTRUCTION WINDOW. CONVEYANCE PIPE(S) SHALL BE INSTALLED AT THE STORMWATER POND OUTLET AND DISCHARGE AT THE EXISTING CMP PIPES BENEATH THE ACCESS DRIVE.
 - CONTRACTOR SHALL COMPLY WITH ESC NOTES AND SEQUENCES ON SHEETS 2.0 AND 4.2.

TESC & DEMOLITION PLAN
SCALE 1"=20'



REVISION DESCRIPTION: WO NUMBER: 141003252
6/30/2017: 60% CITY OF BELLEVUE SUBMITTAL

RICHARDS CREEK SUBSTATION

CAD	LM	DATE (M/D/Y)	06 / 13 / 17
ENGINEER	EM	/ /	/ /
REVIEWED	EM	/ /	/ /
APPROVED	S. KM	06 / 14 / 17	

CLASS: SITE

DRAWING NO: **D-18172** REV NO: 0
SHEET: 6 OF 22
FILE NO: 111103
CODE: RIC

CALL BEFORE YOU DIG
Call: TOLL FREE 1-800-424-5555

1. TESC COORDINATION

- a. **A Certified Erosion and Sediment Control Lead (CESCL)** shall be designated by the contractor as the project's TESC supervisor and shall be responsible for the performance, maintenance, and review of TESC measures and for compliance with all permit conditions related to TESC. The TESC supervisor shall be certified by the Department of Ecology's training requirement.
- b. **Contractor's Revised TESC Plans.** The TESC measures shown on this plan, in the Stormwater Pollution Prevention Plan (Appendix D of the Specifications), and in Section 8.1 of the Specifications, are the minimum requirements for anticipated site conditions. The contractor may revise the TESC measures should they determine that there is a need to be modified to comply with the permit conditions or if there is a more effective and efficient way to meet the performance objectives for the duration of the project.
- c. **Implementing Revised TESC Plans.** The Contractor shall consult with the City prior to implementing any changes to ensure compliance with City permits, the contract, and that the changes do not negatively impact property or public safety.
- d. **An onsite TESC preconstruction meeting** shall be held before any work begins to review implementation of the TESC Plans and Report.

2. INITIAL TESC INSTALLATION

- a. **All TESC facilities shown on the Plans shall be installed** prior to or in conjunction with all clearing and grading so as to ensure that the sediment-laden water does not enter the City drainage system, surface waters, or wetlands. Adjacent properties shall be protected from sediment-laden runoff. If not specifically shown on the Plans or the TESC Report, installation shall be done in accordance with Appendix D of the King County Surface Water Design Manual, "Erosion and Sediment Control Standards", or as directed by the City.
- b. **Clearing limits and tree protection** boundaries shown on the Plans shall be clearly flagged by survey tape or fencing prior to construction. No disturbance beyond the clearing limits is allowed.
- c. **Stabilized construction entrances** shown on the Plans shall be installed at the beginning of construction and maintained for the duration of the project. Onsite roads and paved areas shall be kept clean to minimize turbidity in runoff. Additional measures, such as constructed wheel wash systems or wash pads, if shown on the Plans, are required to ensure sediment is not tracked out to city streets. Any dirt tracked onto city streets shall be swept as needed or as directed by the City of Issaquah. Street sweeping is not considered a TESC measure.
- d. **Covering of exposed soils**, including roadway embankments, that will not be disturbed for two consecutive days during the wet season (Oct 1 to April 30) or seven days during the dry season (May 1 to Sept 30) shall be done using approved TESC methods (e.g. seeding, mulching, plastic covering, etc.). These time limits may be modified by the City to address specific site and weather conditions.
- e. **Collection and treatment of runoff** using ditches, swales, or pipes is required to route stormwater to collection points where it is treated prior to infiltration or discharge offsite. When shown on the Plans, temporary storage facilities such as ponds and tanks shall be installed at the onset of construction, regardless of the time of year.
- f. **Discharge to the sanitary sewer** is allowed upon approval from the City or Sammamish Plateau Water and Sewer District and the King County Industrial Waste Program. Pretreatment prior to discharge is required to meet County or Sewer District standards.
- g. **Working in Streams.** All in-water work within waters of the state shall be conducted during the HPA-specified fish window (included in Appendix B). Any equipment working within regulated waters shall be equipped with vegetable-based (non-toxic) hydraulic fluids, and appropriate methods shall be employed to divert the stream around the working area or isolate the working area from the stream using barriers.

3. ROUTINE TESC MAINTENANCE

- a. **Maintenance over duration of project.** All TESC measures shall be maintained by the TESC supervisor for the duration of construction, until final landscaping or other permanent site stabilization is complete.
- b. **Routine inspections.** The TESC facilities shall be inspected by the TESC supervisor daily or more often during rainfall, and maintained to ensure proper functioning. Written documentation is required for discharges above 25 NTUs and shall be readily available at the project site.
- c. **Offsite Pumping.** The TESC supervisor shall notify the City of Issaquah prior to pumping any discharge offsite or to critical areas.
- d. **Inactive Sites.** TESC facilities on inactive sites shall be inspected and maintained a minimum of once a month or within 24 hours following a storm event.
- e. **Preparation for wet season.** Prior to the beginning of the wet season (Oct 1), all disturbed areas shall be reviewed to identify which ones can be seeded or otherwise covered in preparation for the winter rains. If cover measures are not established by Oct 1, additional TESC measures shall be required.

5. TURBIDITY MONITORING

- a. **Monitoring Responsibility.** The City's Inspector will measure the turbidity of stormwater leaving the site at the designated monitoring point(s) to verify compliance with turbidity discharge limits for stormwater runoff per City permits, Appendix D of the Specifications, and Section 8.1 of the Specifications that are specified below. The Contractor shall monitor turbidity in Issaquah Creek upstream and downstream of the project site to verify compliance with turbidity in the stream per the Ecology Construction Stormwater General Permit and other State and Federal permits.
- b. **Monitoring Location.** The turbidity monitoring location, where the Inspector will measure turbidity for compliance, is shown on the TESC Plans. For project sites where designating a monitoring point is not feasible (e.g. flat sites or linear utility projects), the monitoring locations will be at the discretion of the Inspector.
- c. **25 NTU Action Level.** The TESC Supervisor shall be notified of discharges above 25 NTUs. The TESC Supervisor shall review and modify the TESC measures as needed to keep discharges from the site below 25 NTUs.
- d. **100 NTU Discharge Limit.** The contractor is responsible for installing and maintaining TESC measures so that discharge from the project site shall not exceed 100 NTUs at all times up to the 10 year/24 hour storm event. This event is defined as 3.5 inches of rainfall over a 24 hour period, as measured at the City's rain gage. Data from this rain gage is posted on the City's website.
- e. **5 NTU over background in Issaquah Creek.** Refer to the Ecology Construction Stormwater General Permit and other State and Federal permits for compliance with State instream water quality standards.

6. OTHER POLLUTION CONTROL MEASURES

- a. **Pollution Control.** The contractor shall implement all requirements of the TESC Report and Stormwater Pollution Prevention Plan, including storage and handling of hazardous materials, concrete handling and wastewater disposal, spill kits and spill response, and other measures as needed.
- b. **Control of Process Water.** The contractor shall use the appropriate pollution control measures to ensure that no liquid products or contaminated water such as runoff from concrete slurry (known as process water) enters the storm drainage system, surface waters, or otherwise leaves the project site.

7. FINAL SITE STABILIZATION

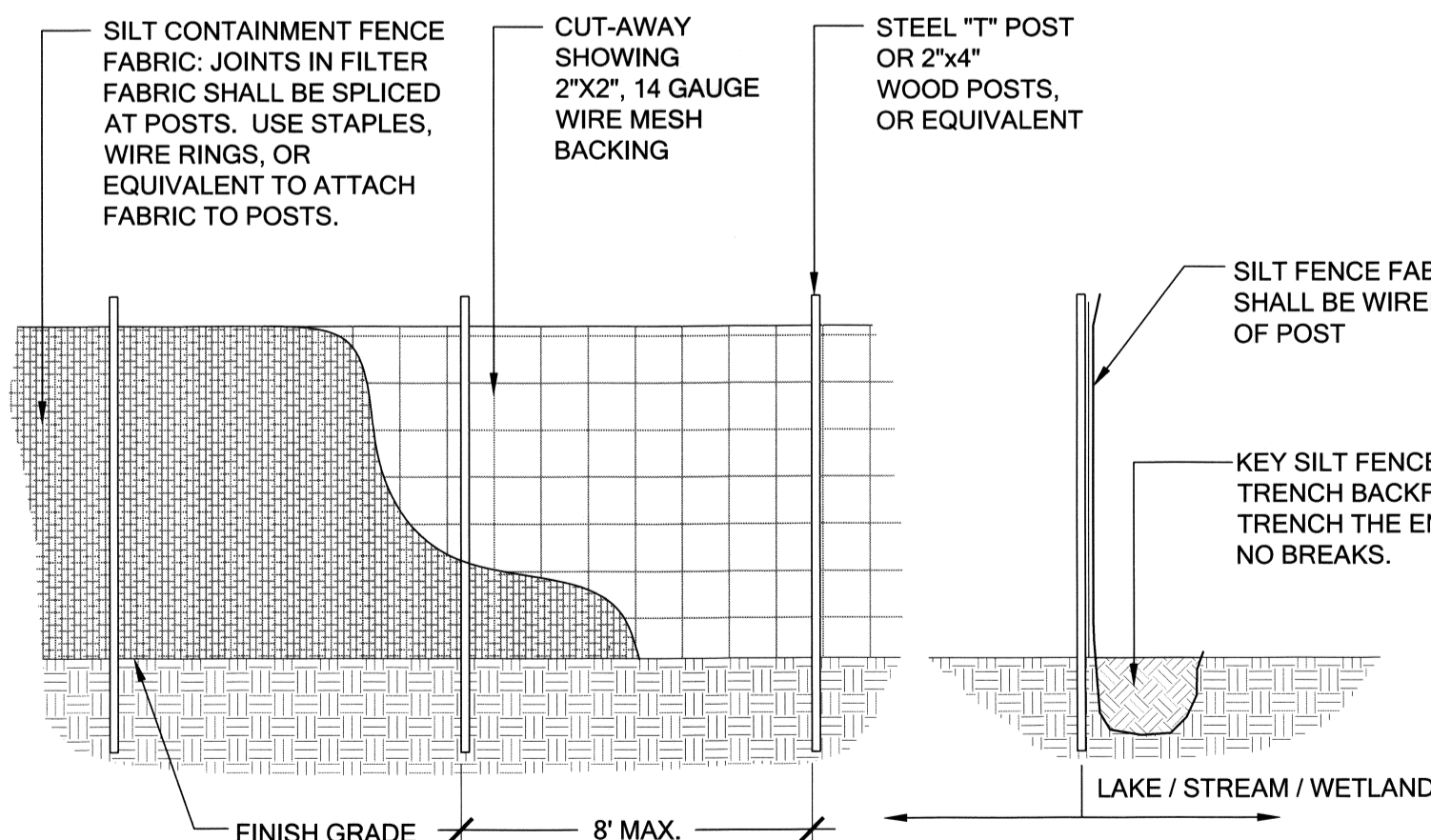
- a. **Final stabilization.** The contractor shall install all TESC needed for final stabilization at completion of finish grading. This shall be done within two consecutive days during the wet season (Oct 1 to April 30), seven days during the dry season (May 1 to Sept 30) or as directed by the City.
- b. **Removal of TESC Facilities.** The contractor shall remove all TESC facilities, except those that will remain (such as seed and mulch) after final stabilization of the site.

8. ENFORCEMENT

- a. **Non-compliance with contract requirements, performance objectives and permits.** Failure to provide and maintain approved TESC facilities, discharges that exceed the 100 NTU turbidity limit, or other failures to comply with the contract or permits are considered violations of the contract and may be subject to suspension of work and monetary penalties.
- b. **Maintenance of TESC during suspension.** If work is ordered to be suspended, the contractor shall continue to control erosion, pollution, and runoff during the shutdown and working days will be continued to be counted.

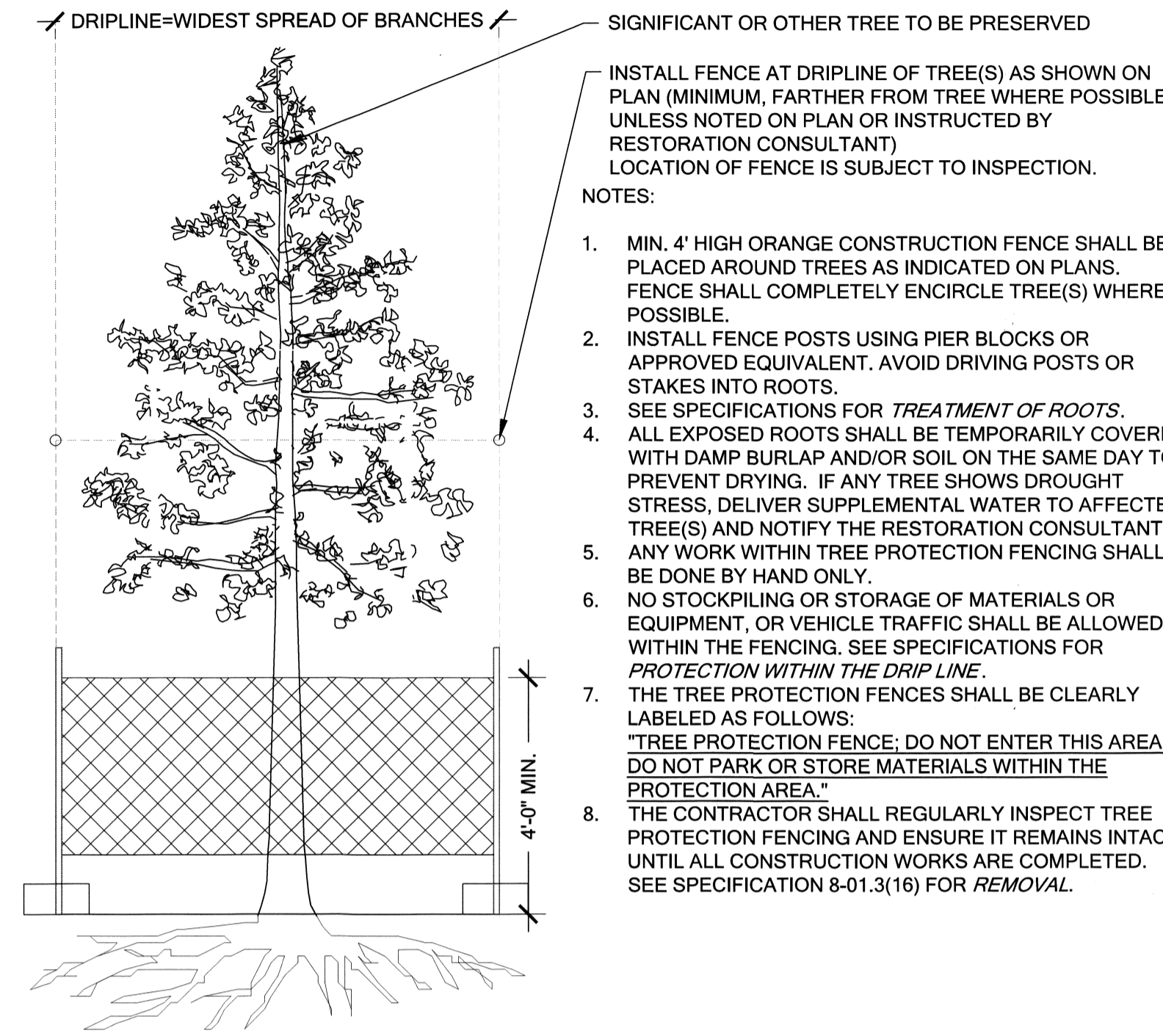
SILT FENCE MAINTENANCE STANDARDS:

- 1. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
- 2. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION EXCEEDS 6" IN DEPTH.



1 SILT FENCE

Scale: NTS



2 TREE PROTECTION

Scale: NTS

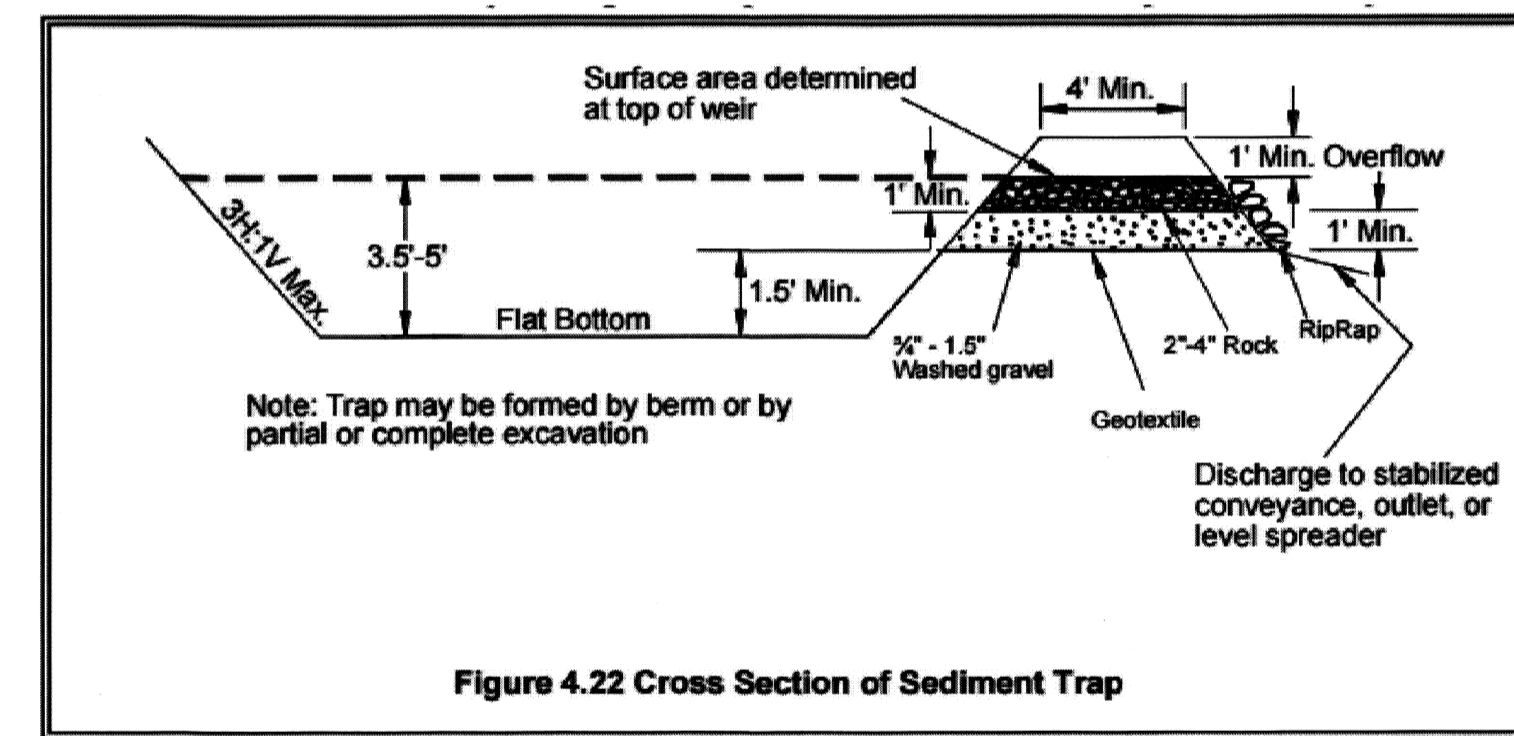


Figure 4.22 Cross Section of Sediment Trap

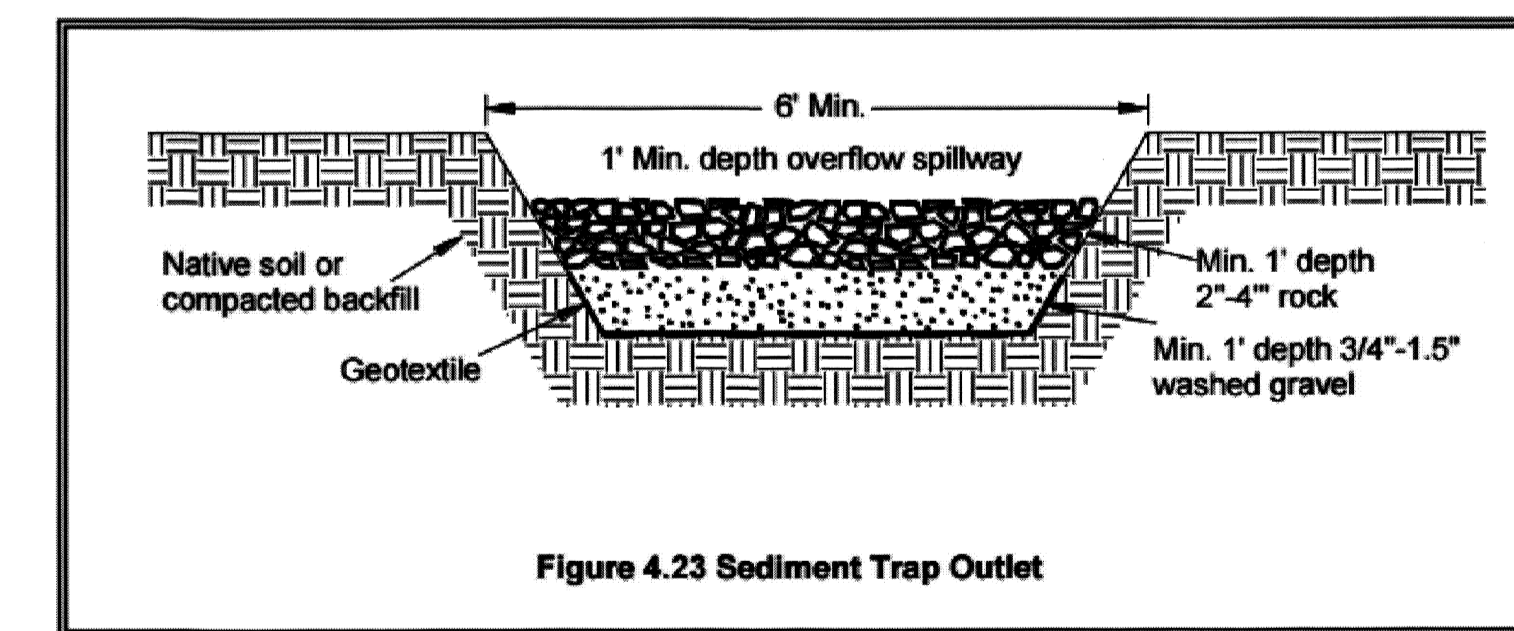


Figure 4.23 Sediment Trap Outlet

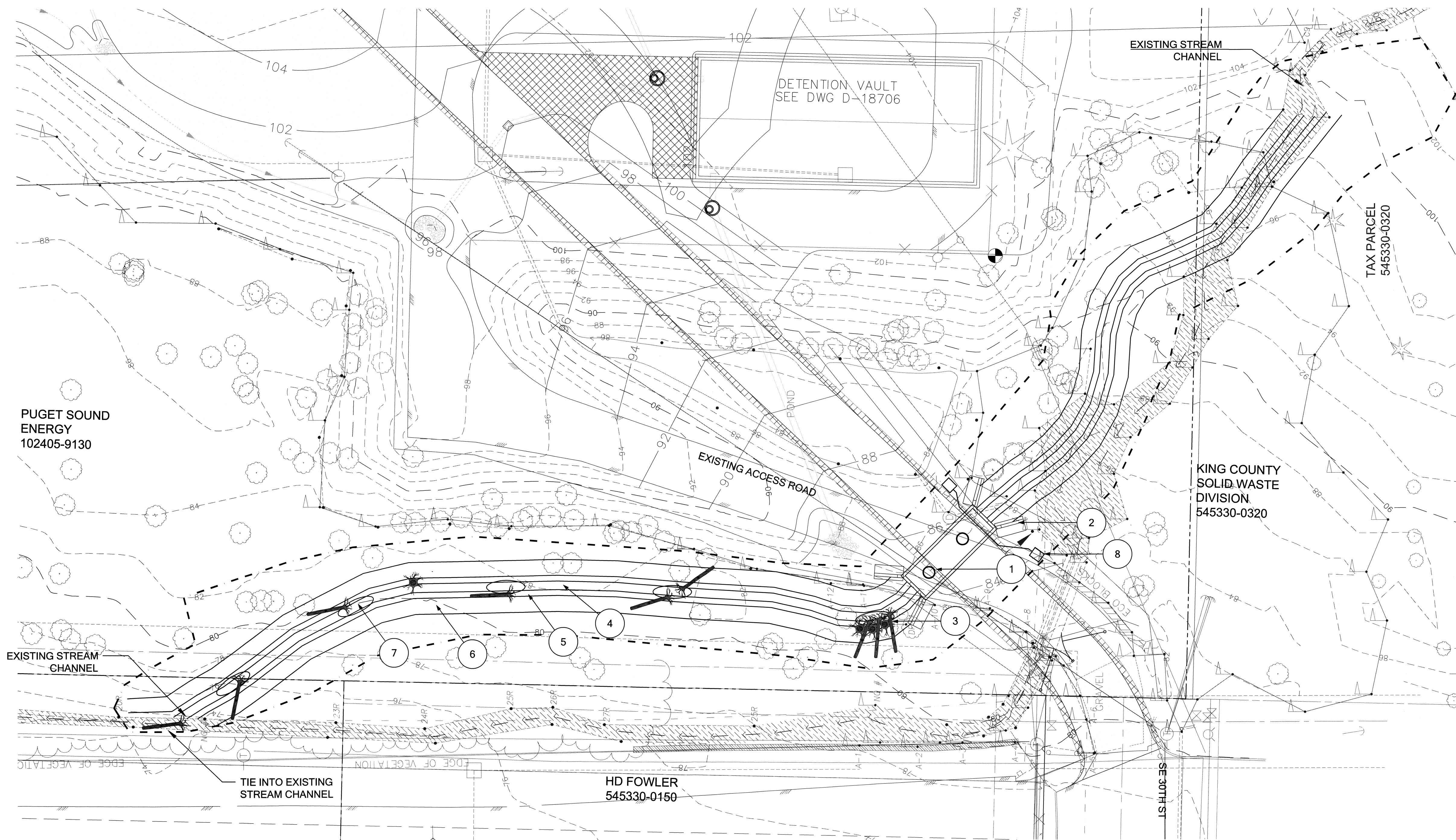
3 SEDIMENT TRAP (CITY OF BELLEVUE BMP C240)

Scale: NTS

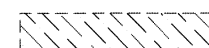

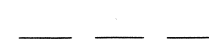



TESC & DEMOLITION NOTES & DETAILS

REVISION DESCRIPTION:		WO NUMBER: 141003252	RICHARDS CREEK SUBSTATION			
6/30/2017: 60% CITY OF BELLEVUE SUBMITTAL						
CAD	LM	DATE (M/D/Y)	PSE PUGET SOUND ENERGY	W-3.2 TESC & DEMOLITION DETAILS	DRAWING NO D-18172	REV NO 0
ENGINEER	EM	06 / 13 / 17		SHEET: 7 OF 22		
REVIEWED	EM	/ /		FILE NO: 111103		
APPROVED	S. KIM	06 / 14 / 17		CODE: RIC		
CLASS: SITE			CADD NO:			








LEGEND

-  EXISTING CHANNEL
-  EXISTING TREE
-  EXISTING MAJOR CONTOUR
-  EXISTING MINOR CONTOUR
-  PSE PROPERTY BOUNDARY
-  GRADING LIMITS

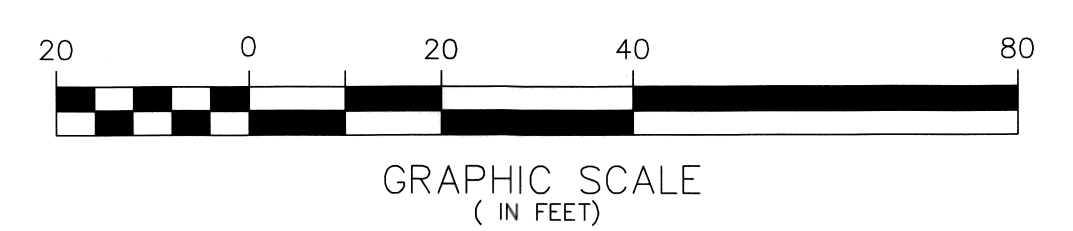
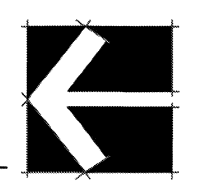
- ① BOX CULVERT WITH LID
- ② WINGWALLS
- ③ WOODY DEBRIS
- ④ LOW-FLOW CHANNEL
- ⑤ 2' WIDE STREAM BENCHES
- ⑥ 3:1 STREAM BANK
- ⑦ POOL
- ⑧ UTILITY HANDHOLE BELOW CULVERT

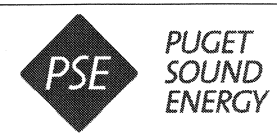
NOTES

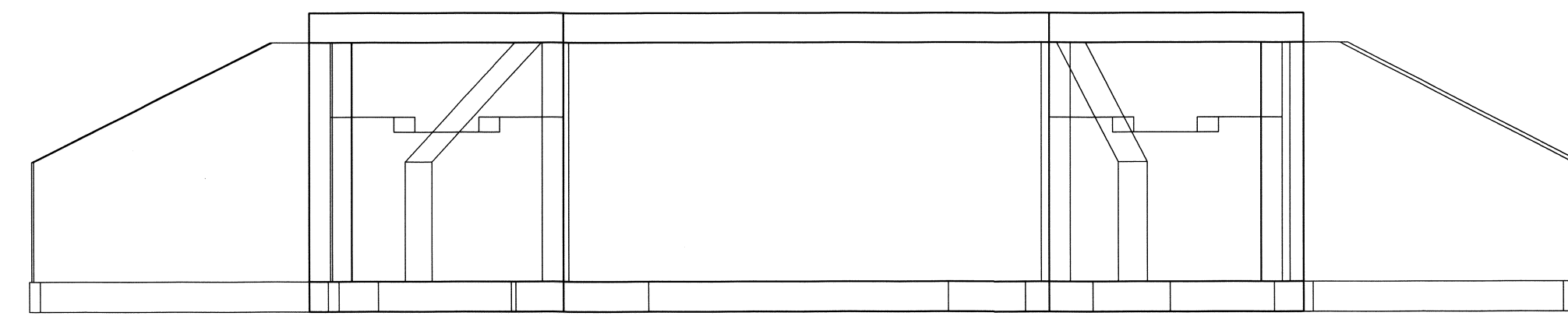
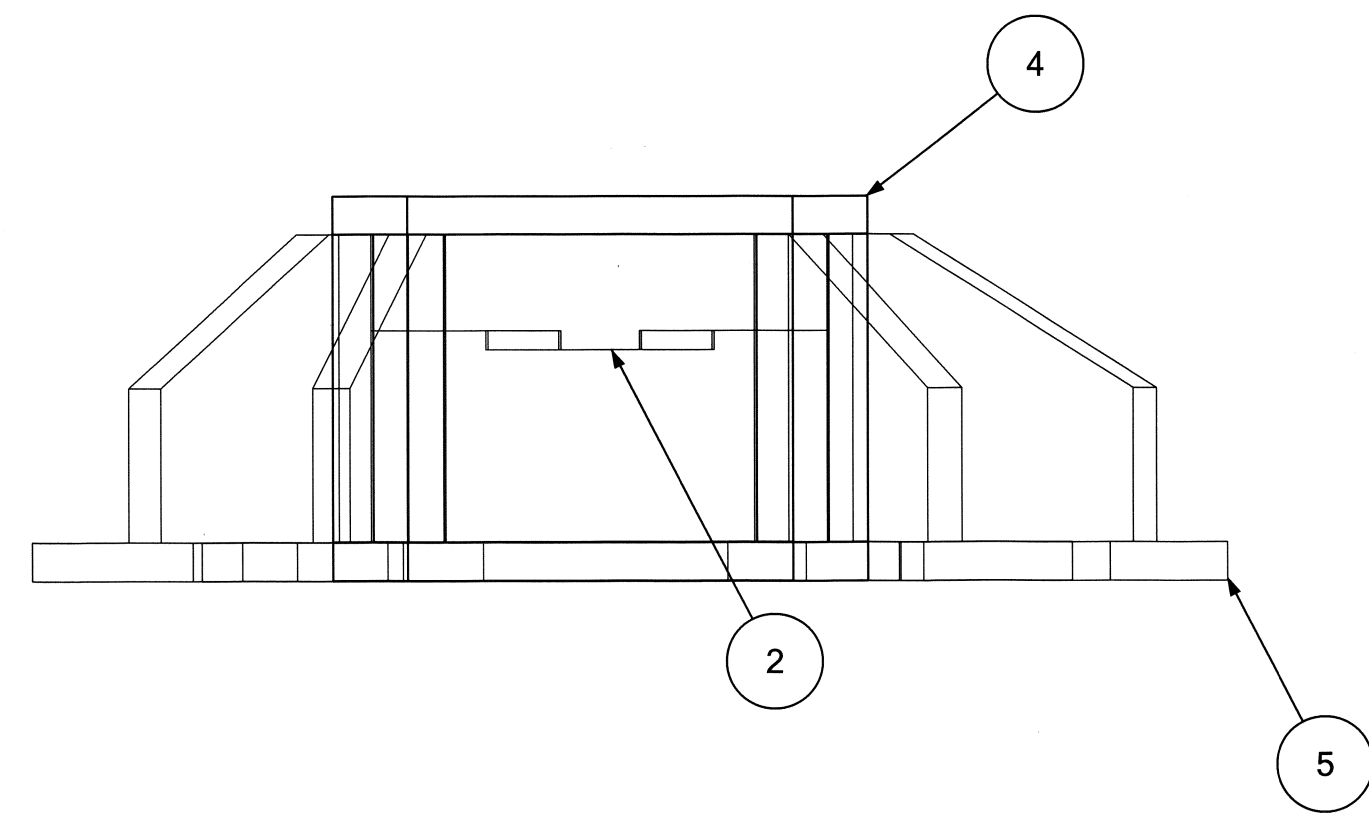
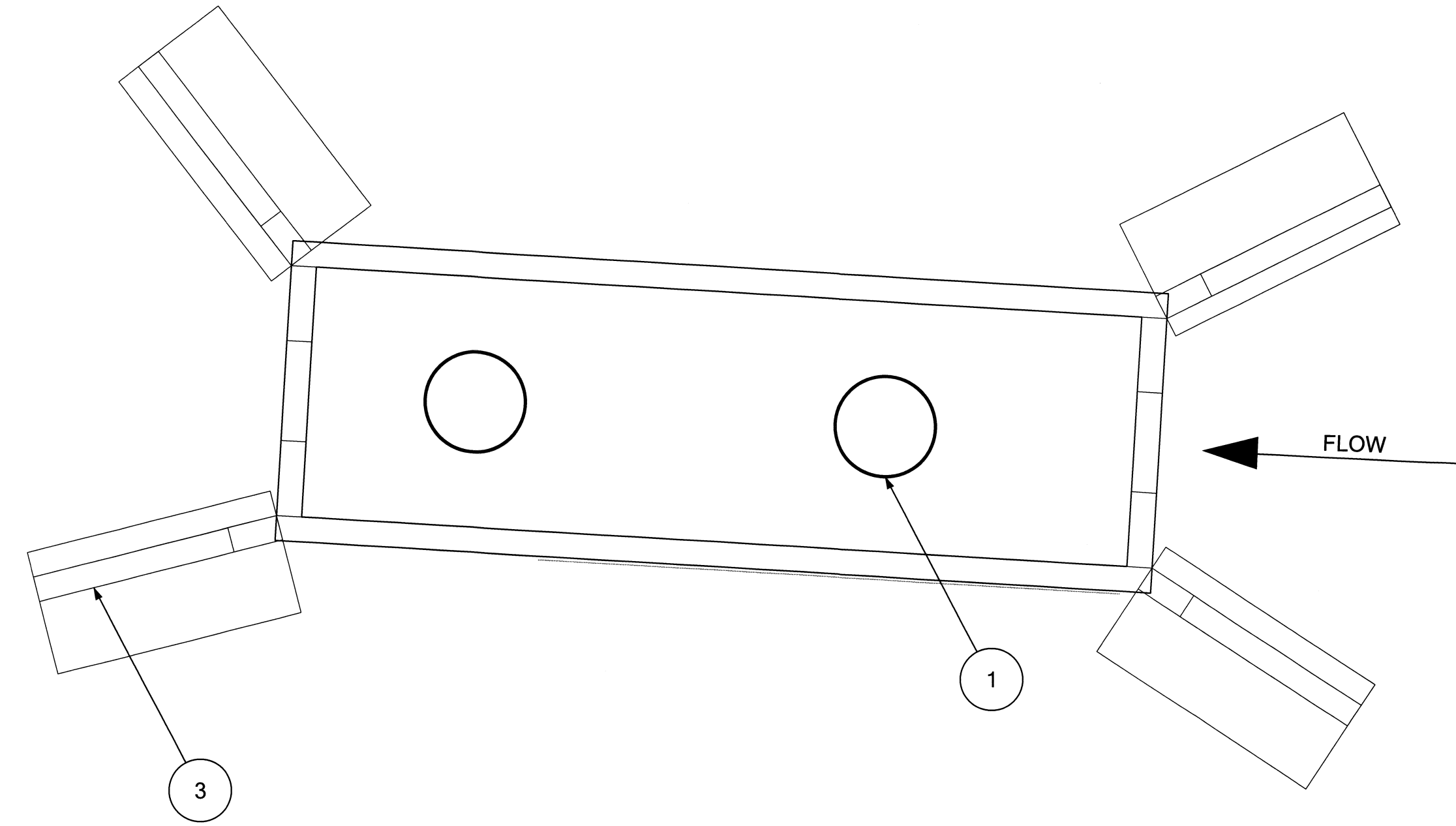
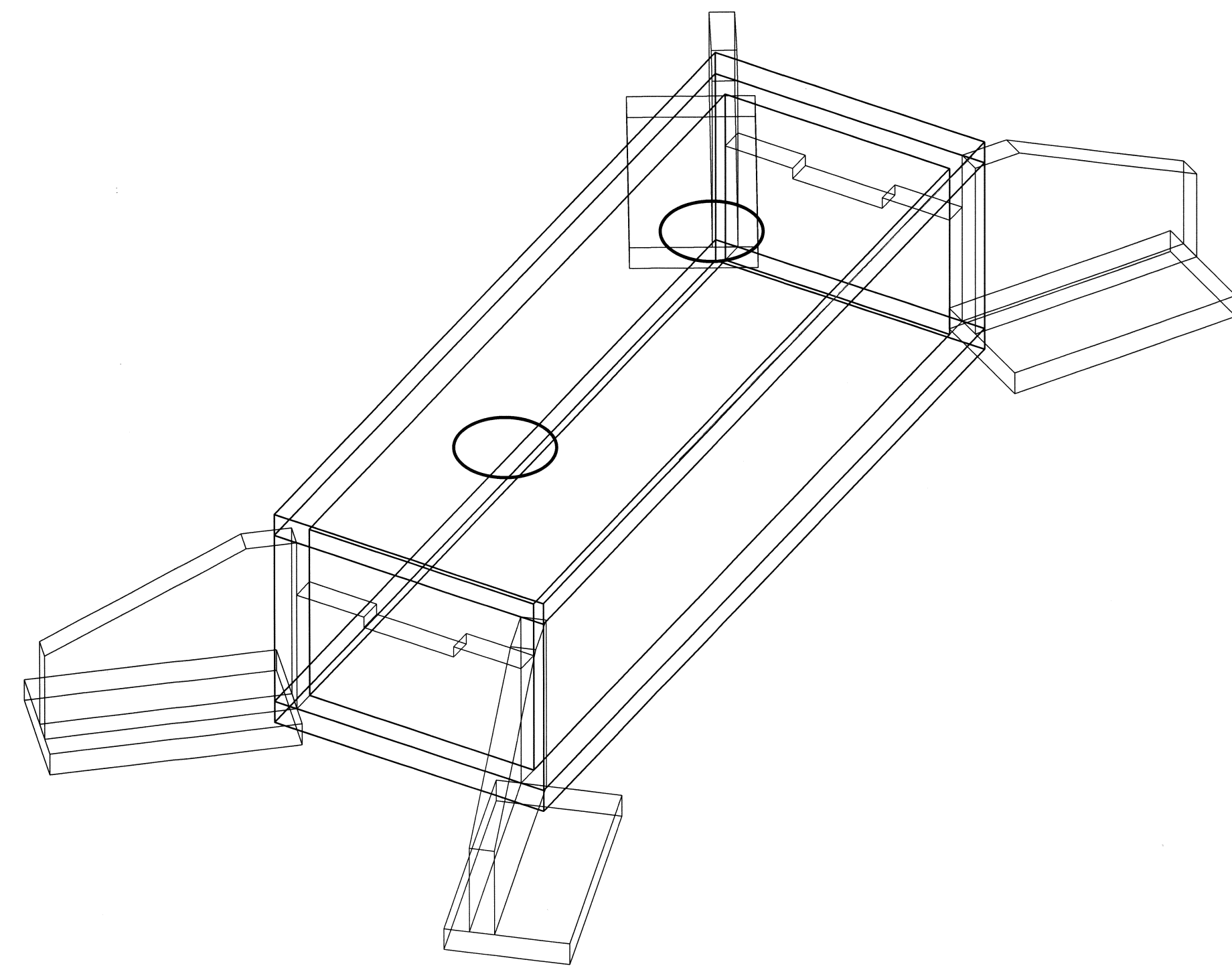
1. NOT ALL SURVEYED OBJECTS ARE DISPLAYED IN THIS DRAWING
2. EXISTING CHANNEL OUTSIDE CONSTRUCTION LIMITS WILL NOT BE GRADED AND IS ANTICIPATED TO REMAIN OR BECOME WETLAND
3. FUTURE SUBSTATION NOT SHOWN

-  LOG WITH ATTACHED ROOTS
-  KEY MEMBER LOG WITH ATTACHED ROOTS
-  UPRIGHT ROOT WAD

PROPOSED PLAN
SCALE 1"=20'



REVISION DESCRIPTION:		WO NUMBER: 141003252		RICHARDS CREEK SUBSTATION	
6/30/2017: 60% CITY OF BELLEVUE SUBMITTAL					
CAD	LM	DATE (M/D/Y)	06 / 13 / 17	 PUGET SOUND ENERGY	W-4.0 PROPOSED PLAN
ENGINEER	EM				
REVIEWED	EM				
APPROVED	S. KIM	08 / 30 / 17			
CLASS: SITE				DRAWING NO: D-18172	
CADD NO:				SHEET: 8 OF 22	
				FILE NO: 111103	
				CODE: RIC	



**REPLACEMENT CULVERT DIMENSIONS
- CONCRETE BOX**

UPSTREAM SILL INVERT ELEVATION:	80.2'
UPSTREAM NOTCH ELEVATION:	79.7'
DOWNSTREAM SILL INVERT ELEVATION:	79.7'
DOWNSTREAM NOTCH ELEVATION:	79.2'
INTERNAL BOTTOM ELEVATION:	74.7'
INTERNAL DIMENSIONS:	10'W x 35'L x 8'H
WALL THICKNESS:	1.0'
SEDIMENT STORAGE DEPTH:	5'
SEDIMENT STORAGE VOLUME:	56 CY

NOTES

1. CULVERT WILL BE PRECAST CONCRETE AND ASSEMBLED ONSITE DURING CONSTRUCTION.
2. FINAL CULVERT DESIGN TO INCLUDE INTERNAL FLOW AND FISH BYPASS FOR USE DURING SEDIMENT VAULT CLEANOUT.

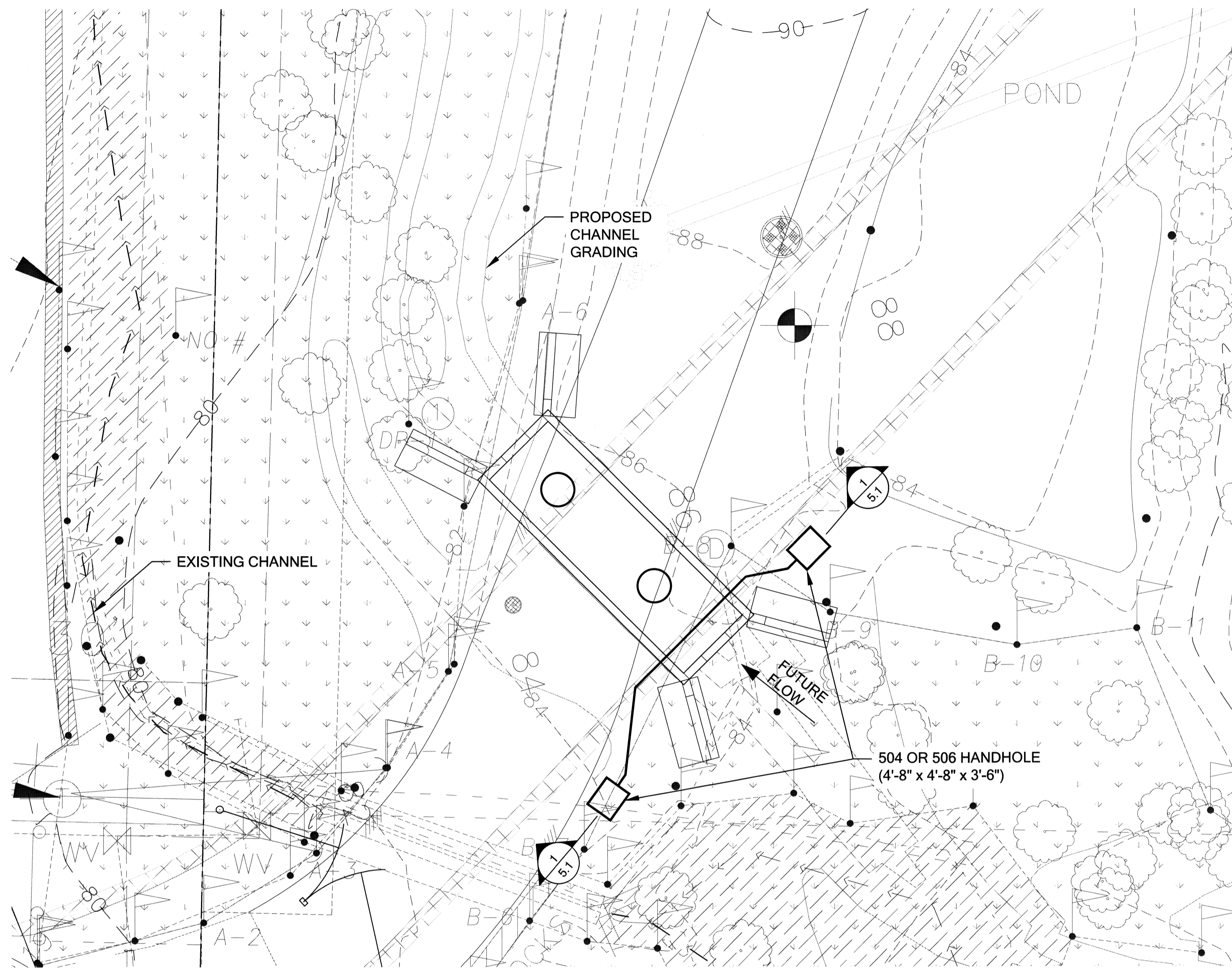
- ① MANHOLE CLEANOUT ACCESS
- ② LOW-FLOW SILL CUTOUT
- ③ WINGWALL
- ④ LID
- ⑤ BASE PAD

CULVERT DESIGN

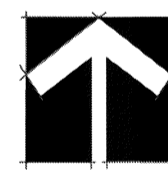
SCALE 1"=5'



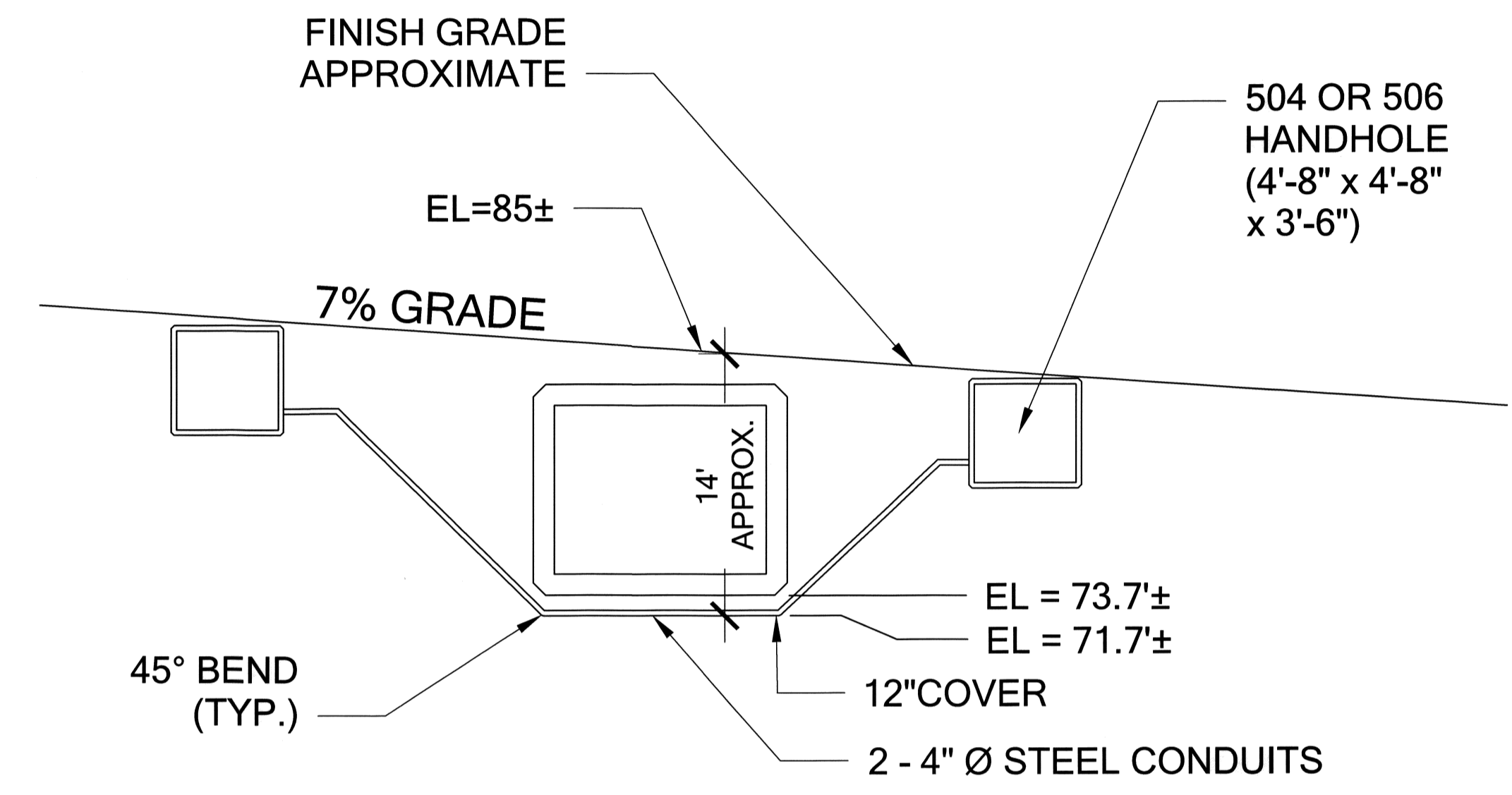
REVISION DESCRIPTION:		WO NUMBER: 141003252		RICHARDS CREEK SUBSTATION	
6/30/2017: 60% CITY OF BELLEVUE SUBMITTAL					
CAD	LM	DATE (M/D/Y)	06 / 13 / 17		W-5.0 CULVERT DESIGN DRAWING NO: D-18172 REV NO: 0
ENGINEER	EM	/ /	/ /		SHEET: 9 OF 22
REVIEWED	EM	/ /	/ /		CLASS: SITE
APPROVED	<i>S. Kim</i>	08 / 14 / 17			FILE NO: 111103 CODE: RIC



NOTES
 1. HANDHOLE AND CONDUIT LOCATIONS ARE APPROXIMATE



NOTE:
 SEE PSE PLANS FOR DETAILS AND ELEVATIONS



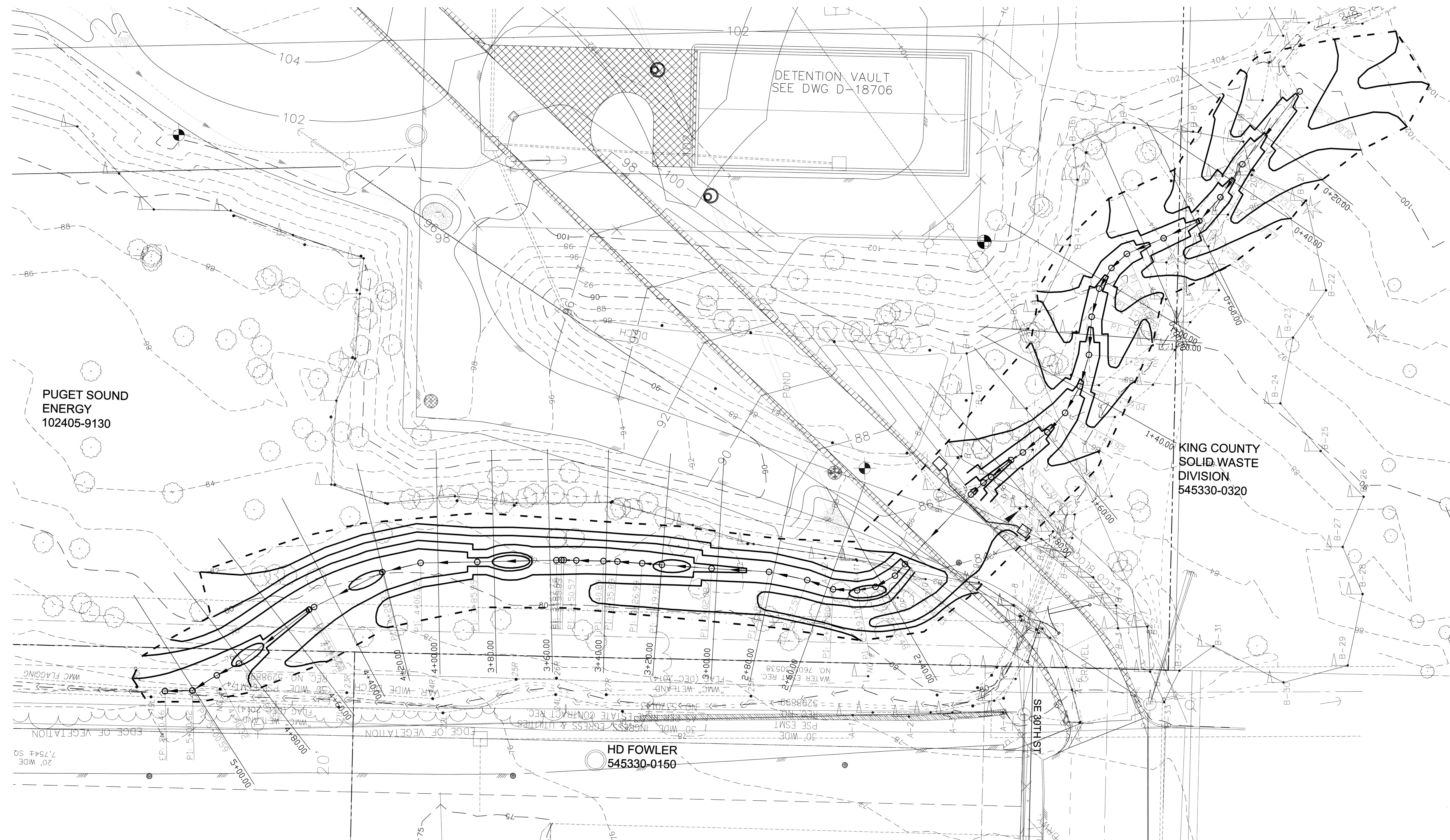
1 SECTION A-A HANDHOLE DETAIL

Scale: NTS

CULVERT & UTILITY CROSS-SECTION



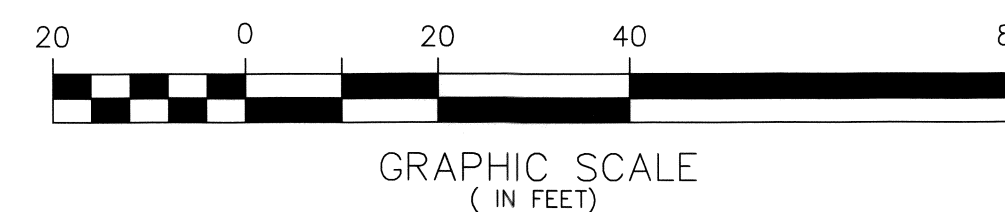
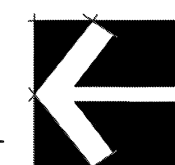
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6/30/2017:60% CITY OF BELLEVUE SUBMITTAL					
CAD	LM	DATE (M/D/Y)	PUGET SOUND ENERGY W-5.1 CULVERT & UTILITY CROSS-SECTION	DRAWING NO	REV NO
ENGINEER	EM	/ /		D-18172	0
REVIEWED	EM	/ /		SHEET: 10 OF 22	FILE NO: 111103
APPROVED	S. KAM	08/14/17		CLASS: SITE	CODE: RIC



LEGEND

- EXISTING TREE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PSE PROPERTY BOUNDARY
- GRADING LIMITS
- STREAM CENTERLINE

STATIONING & CROSS-SECTIONS
SCALE 1"=20'



REVISION DESCRIPTION:	WO NUMBER: 141003252		
6/30/2017: 60% CITY OF BELLEVUE SUBMITTAL			
CAD	LM	DATE (M/D/Y)	06 / 13 / 17
ENGINEER	EM	/	/
REVIEWED	EM	/	/
APPROVED	<i>S. Kim</i>	08 / 30 / 17	

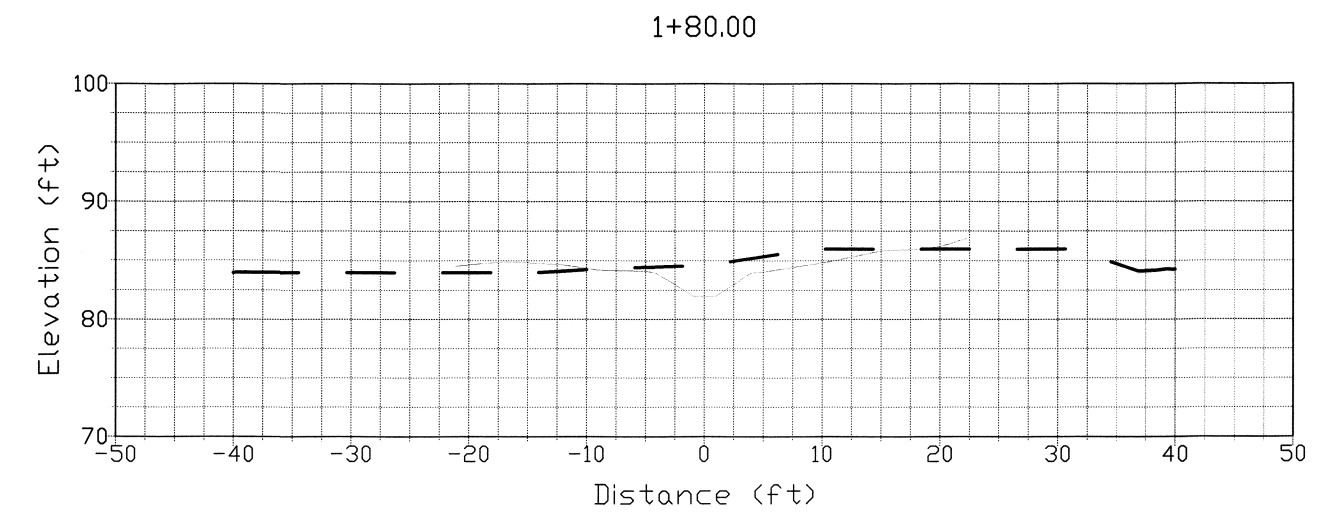
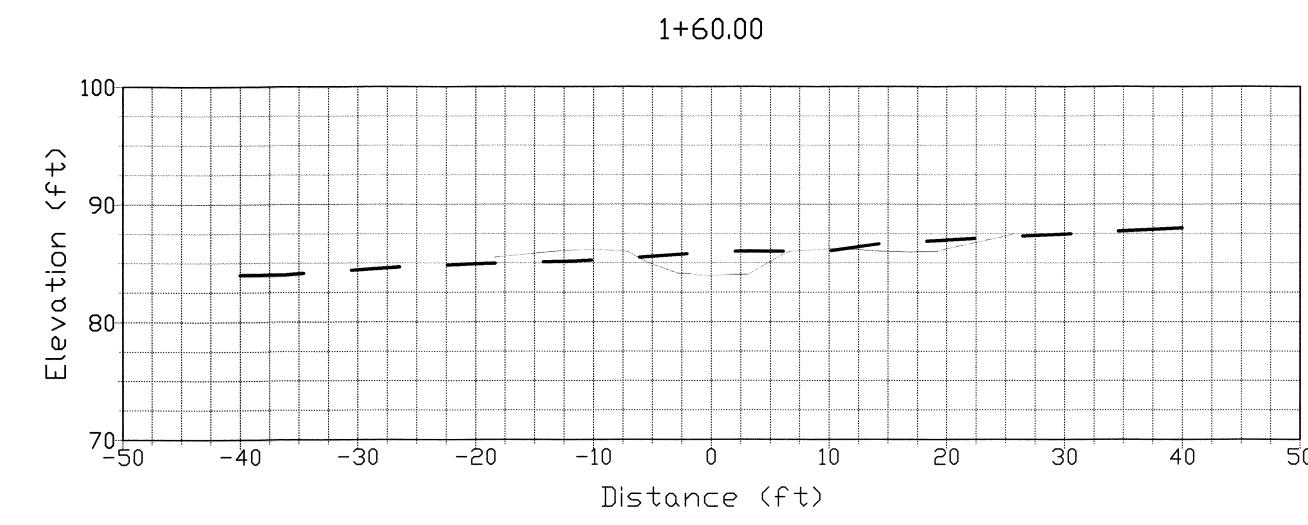
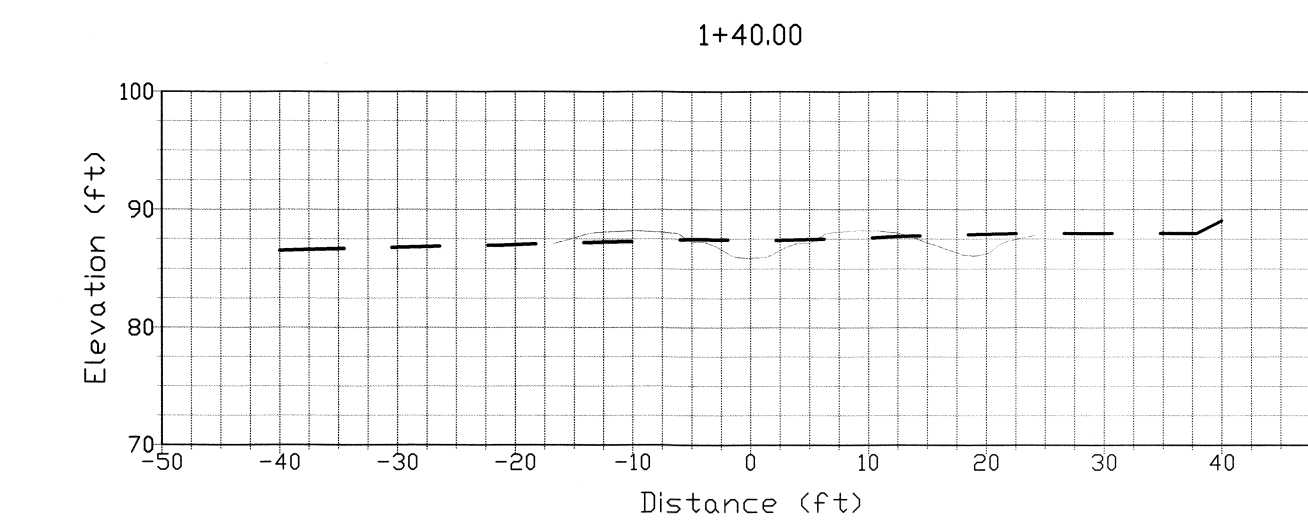
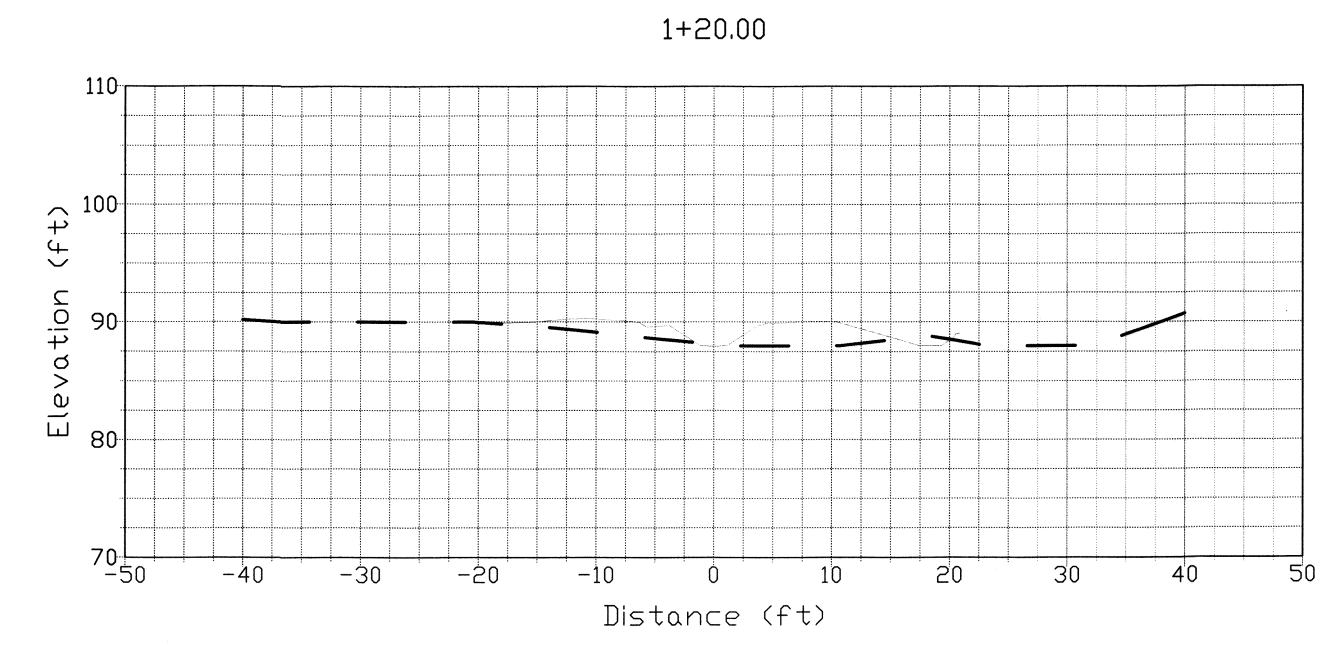
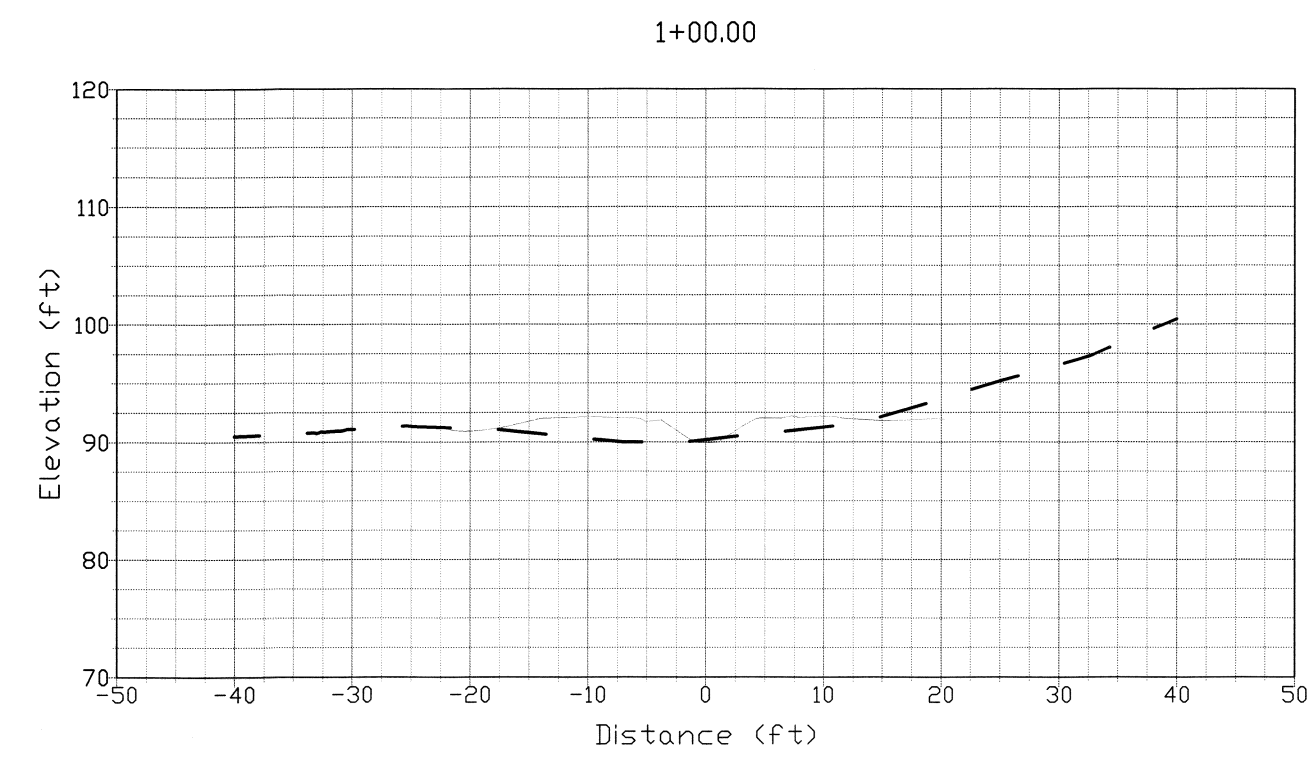
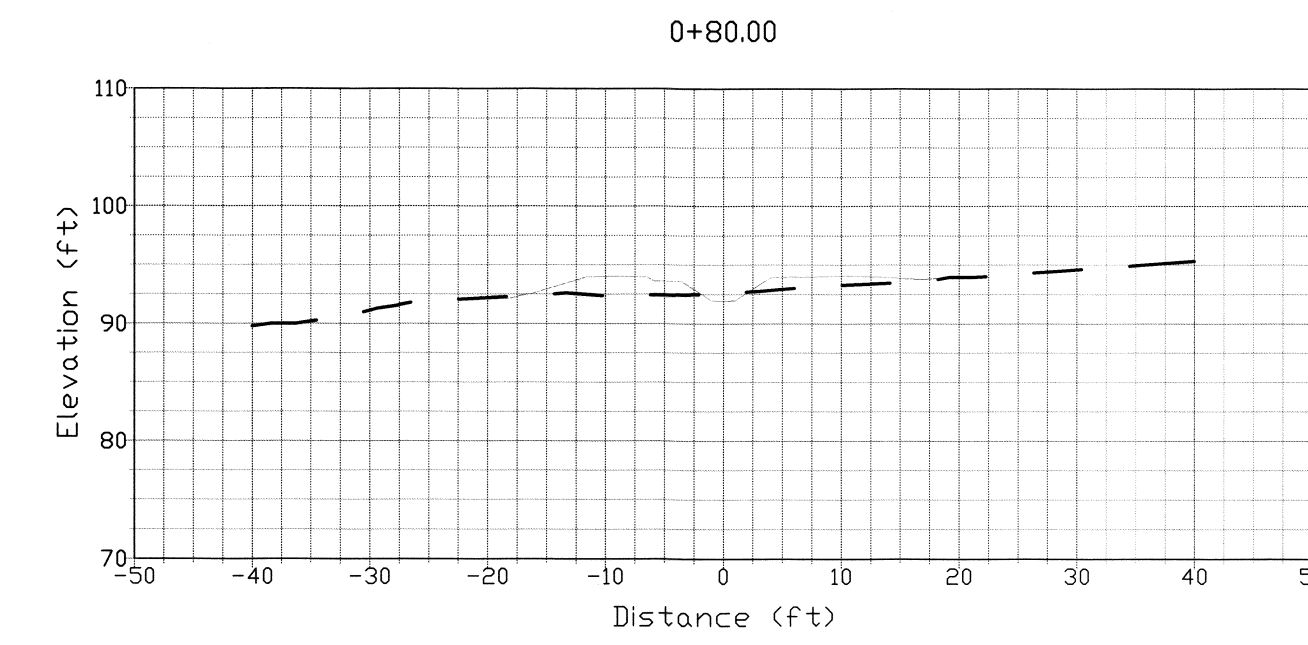
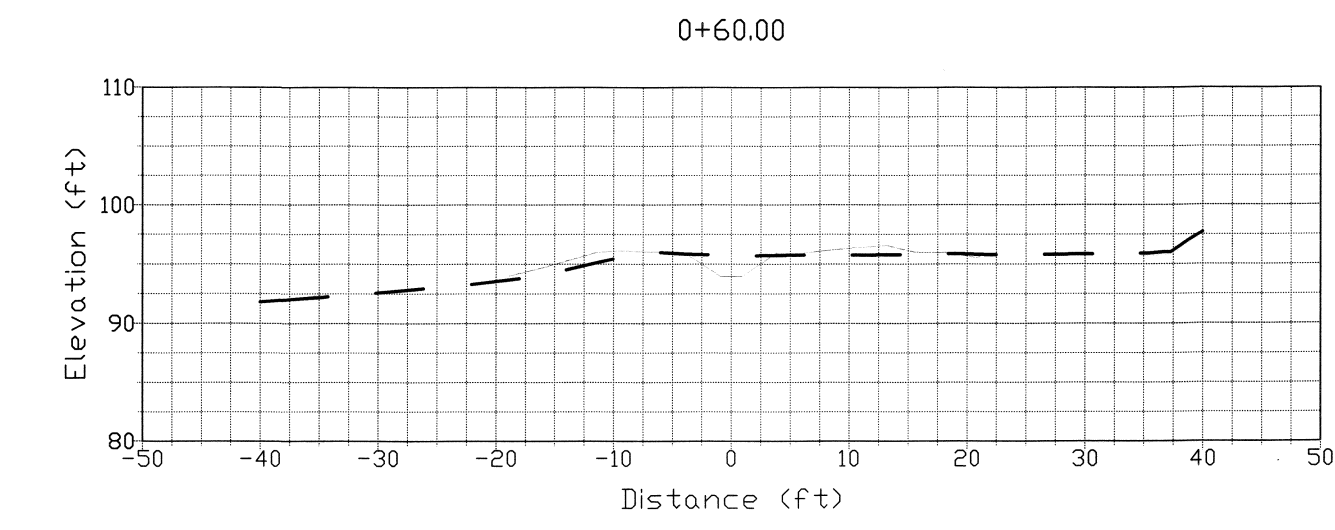
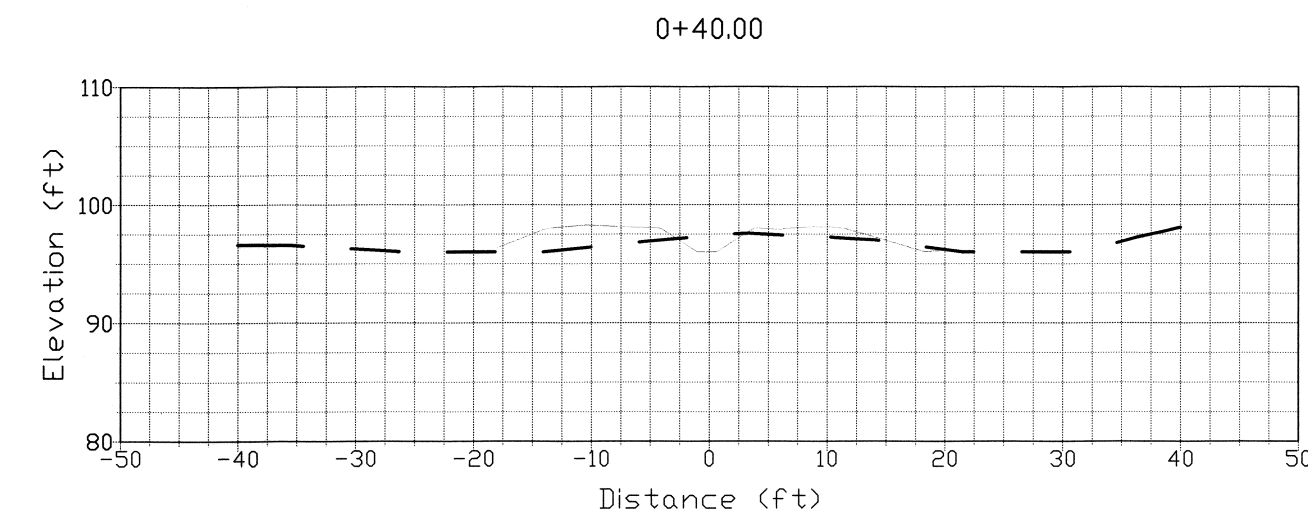
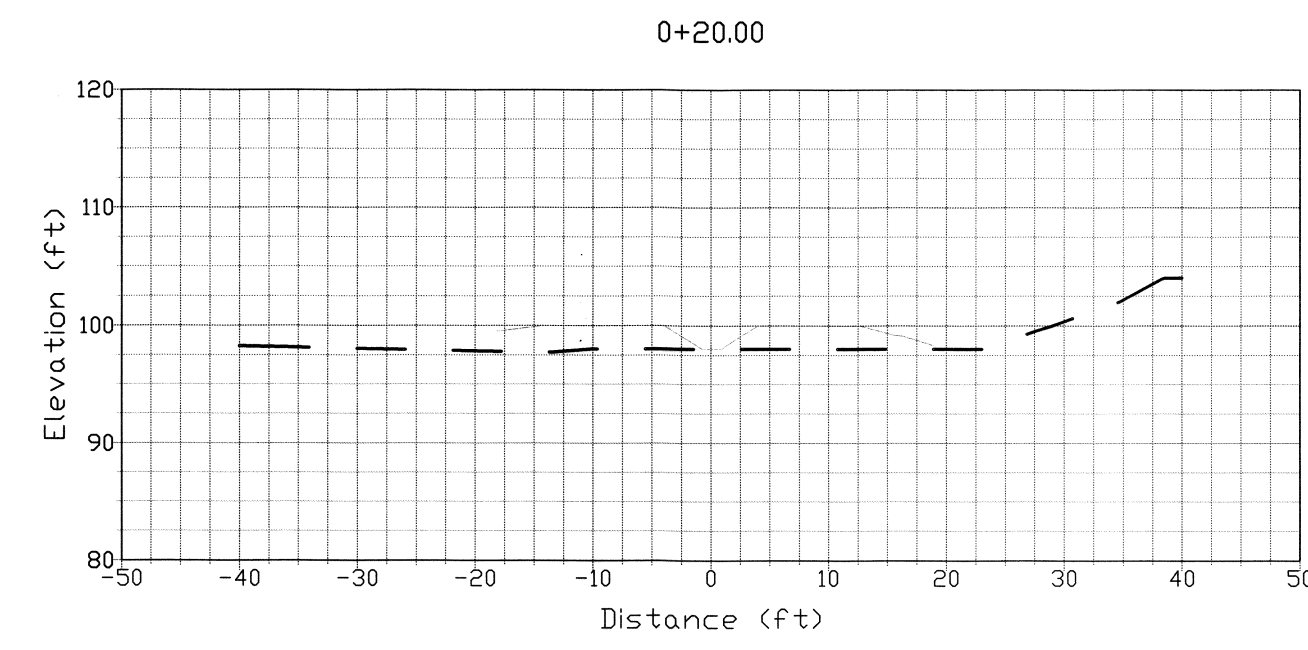
RICHARDS CREEK SUBSTATION



W-6.0 STATIONING & CROSS-SECTIONS

DRAWING NO	D-18172	REV NO	0
CLASS:	SITE	FILE NO:	111103
CODE:	RIC		





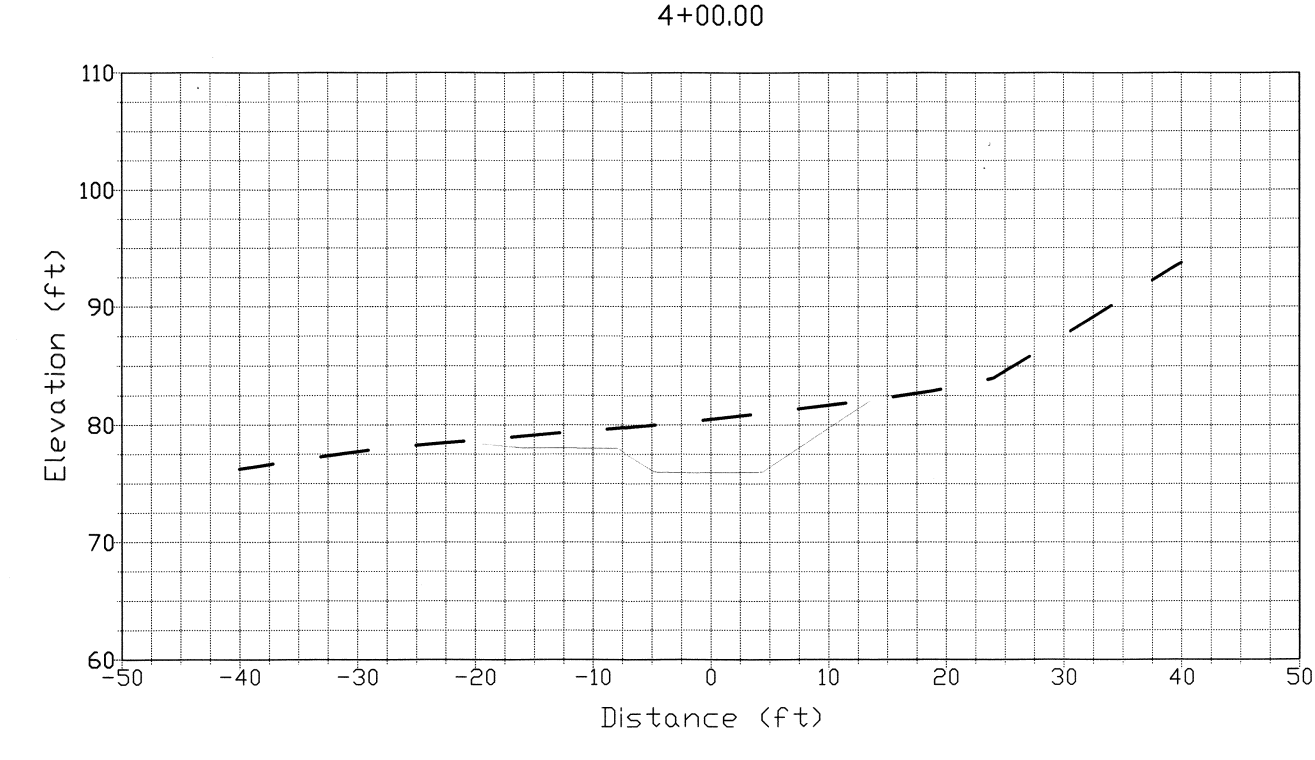
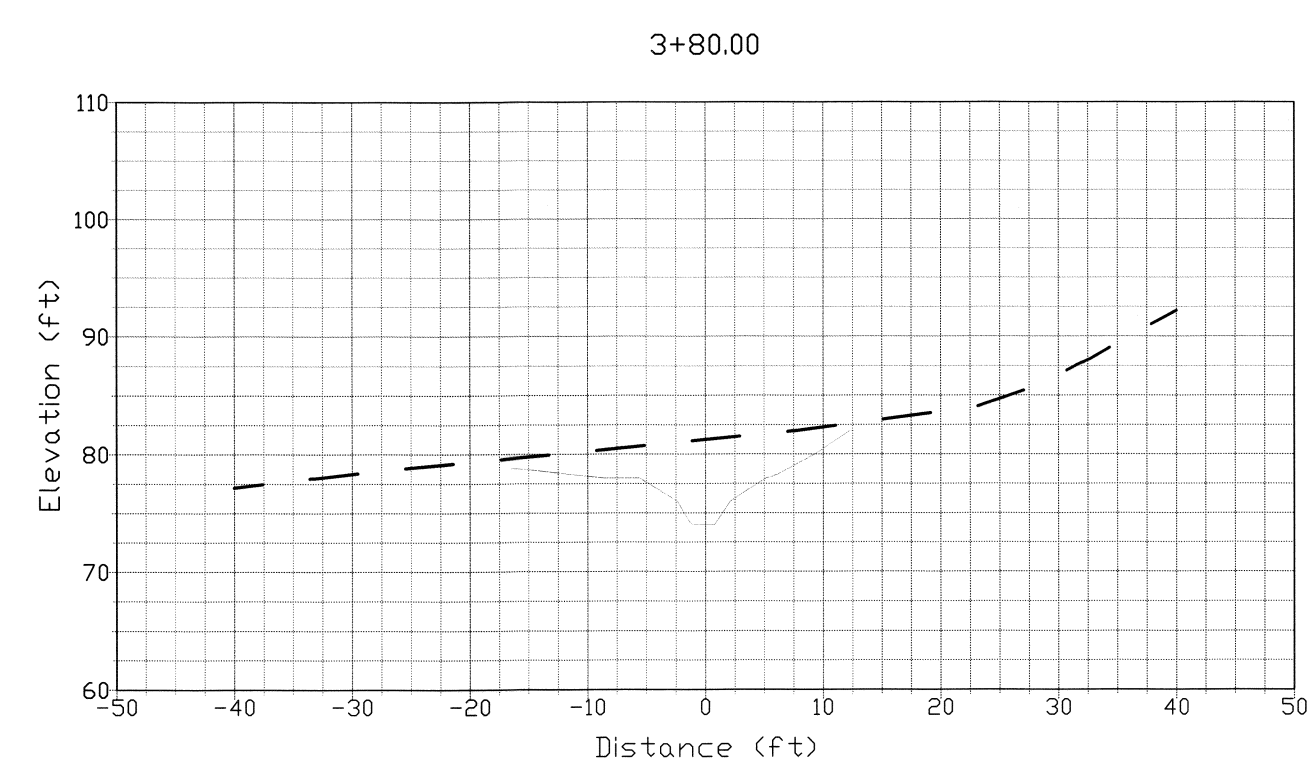
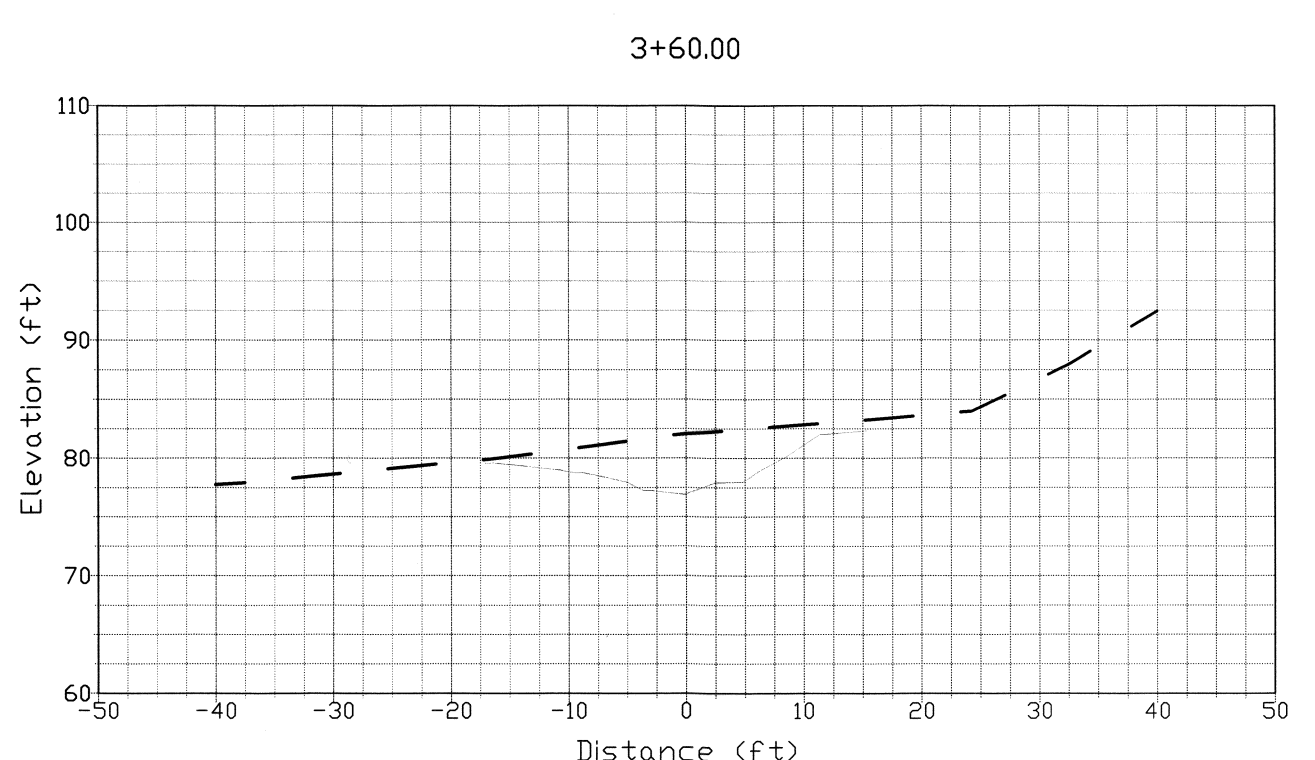
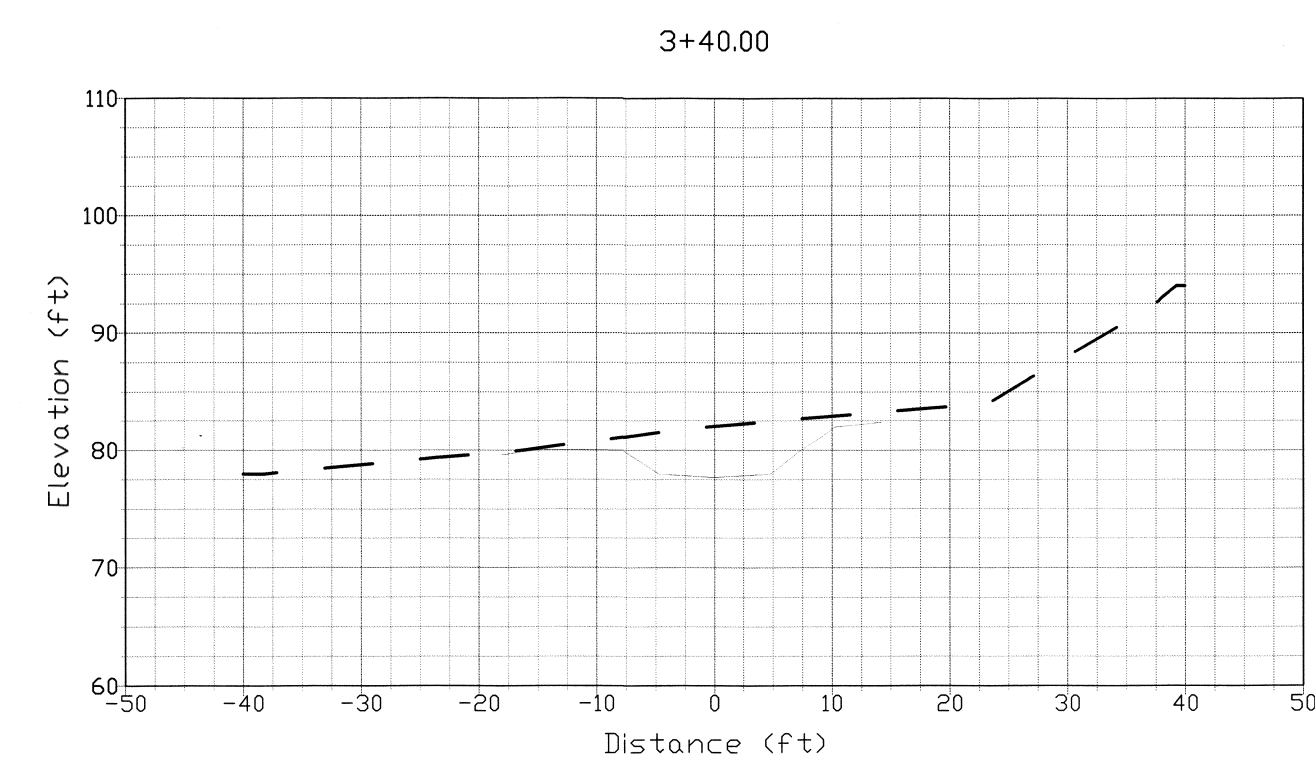
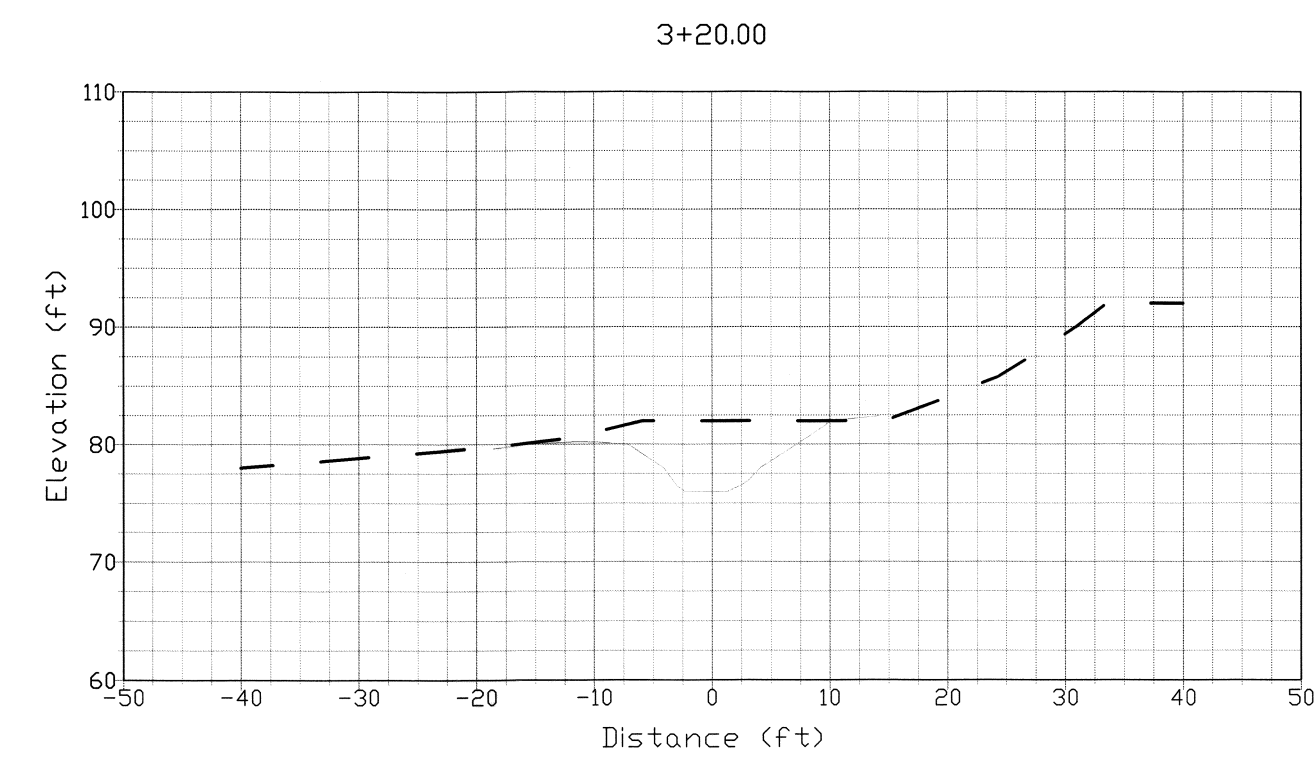
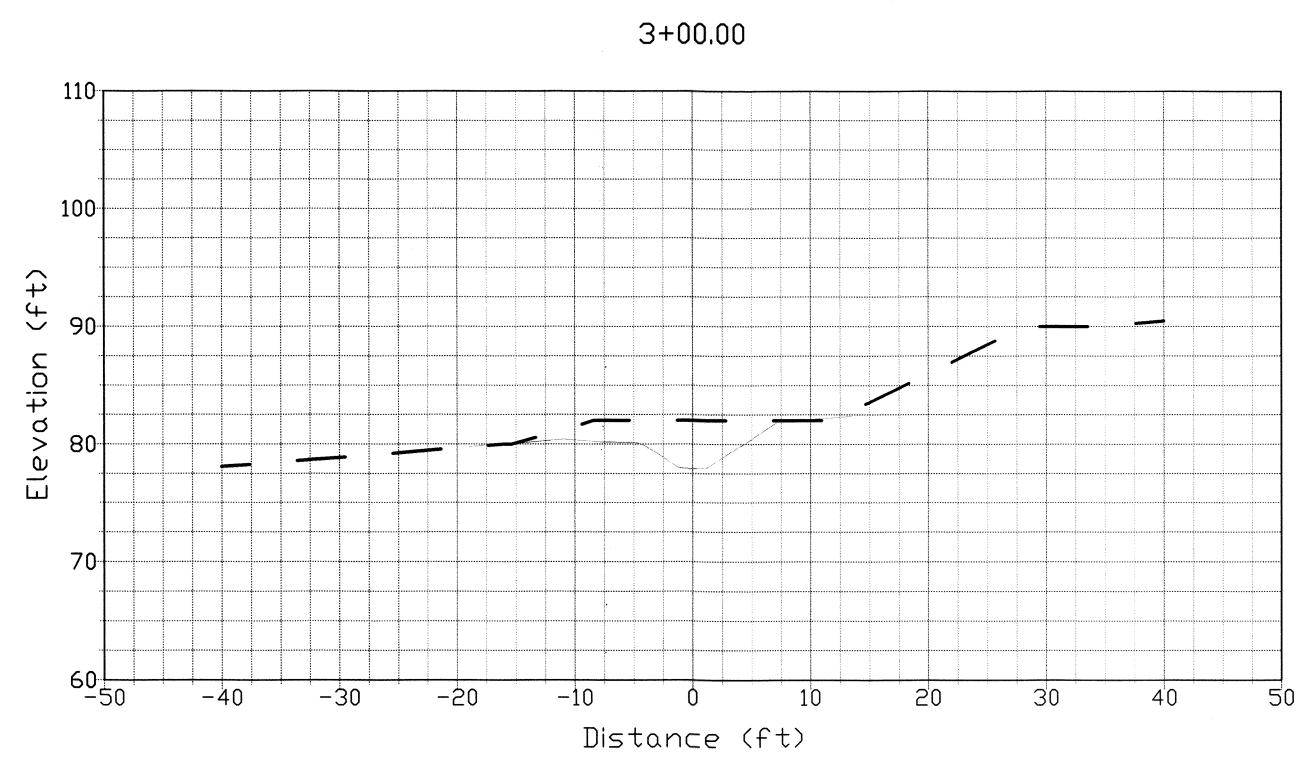
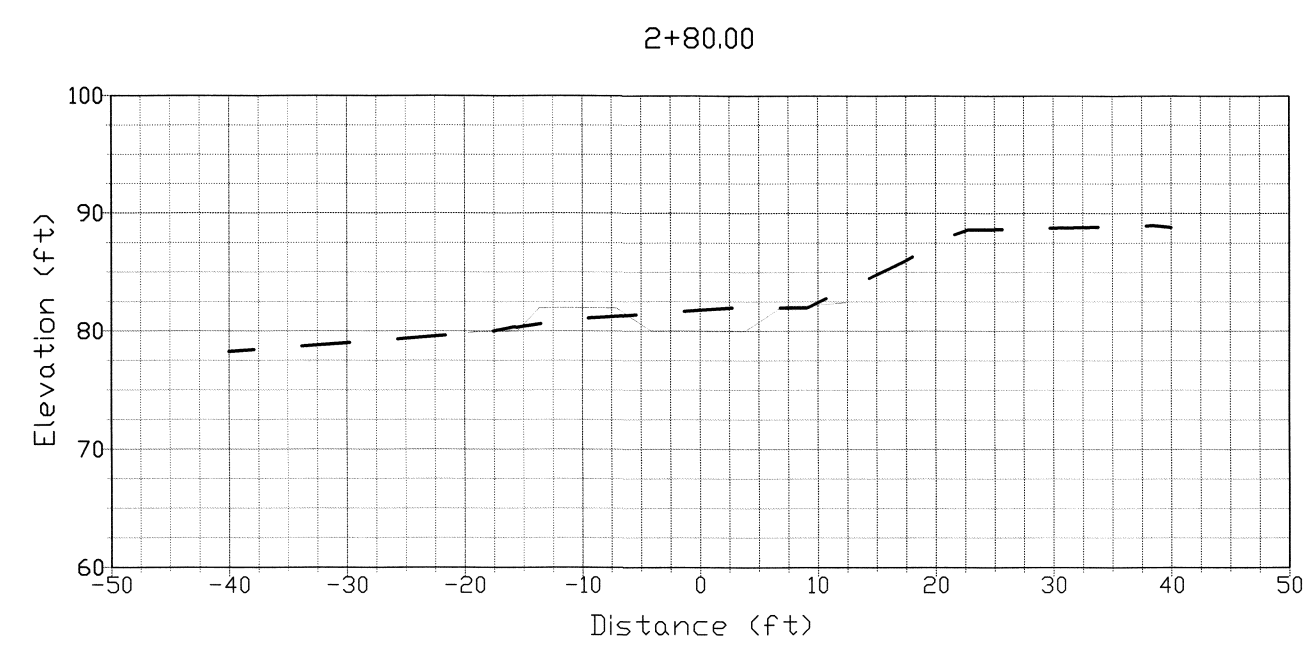
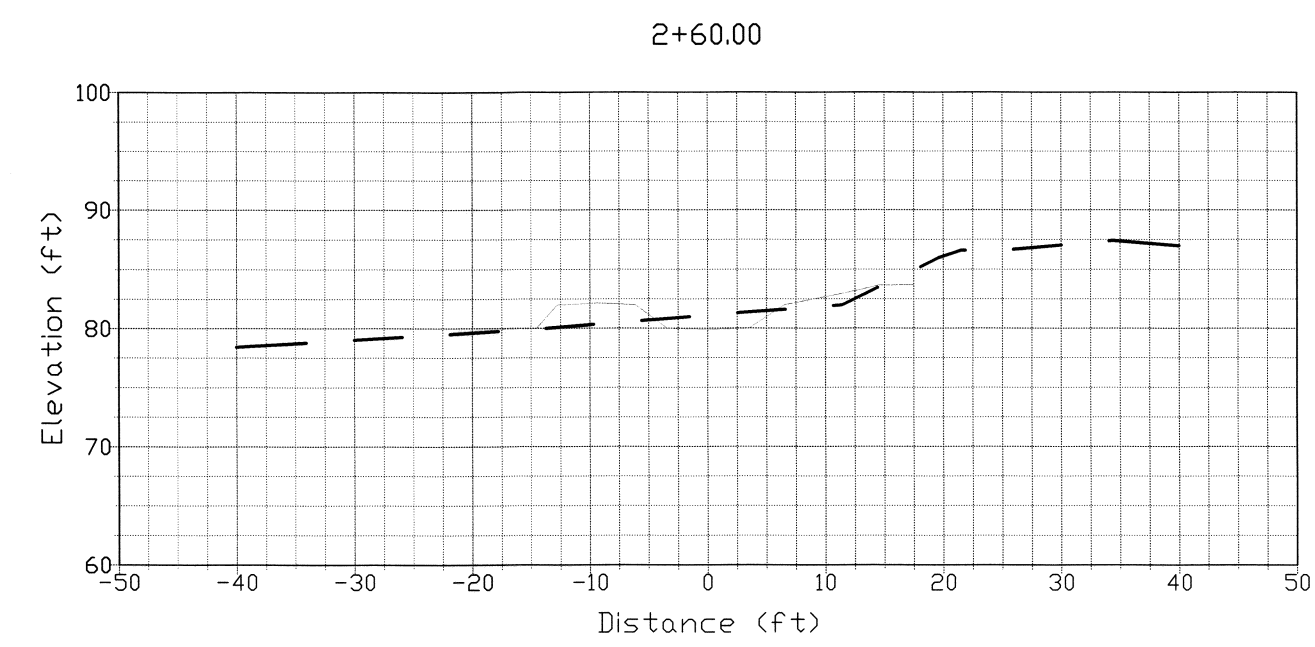
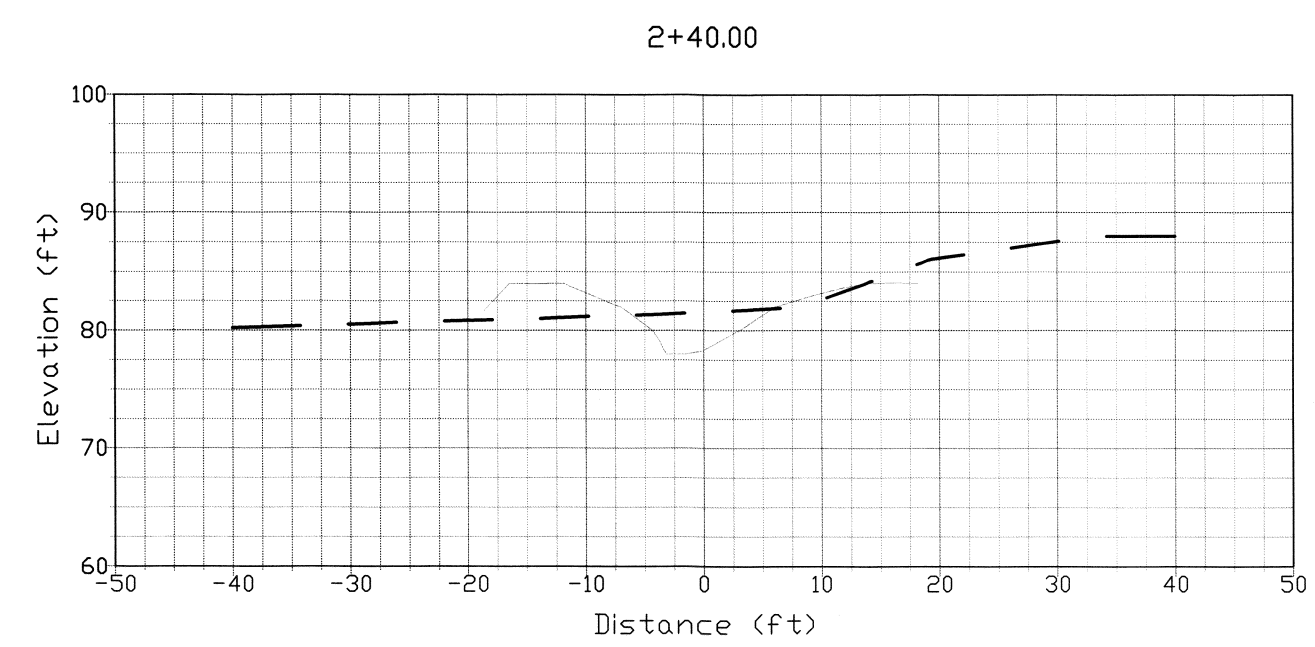
LEGEND
 - - - - - EXISTING GRADE
 _____ PROPOSED GRADE

STREAM CROSS-SECTIONS (1 OF 3)

SCALE: AS SHOWN



REVISION DESCRIPTION:		WO NUMBER: 141003252		RICHARDS CREEK SUBSTATION	
6/30/2017: 60% CITY OF BELLEVUE SUBMITTAL					
CAD	LM	DATE (M/D/Y)	06 / 13 / 17		W-6.11 STREAM CROSS-SECTIONS DRAWING NO: D-18172 SHEET: 12 OF 22 FILE NO: 111103 CODE: RIC
ENGINEER	EM				CLASS: SITE
REVIEWED	EM				
APPROVED	S. KIM	08 / 14 / 17		CADD NO:	



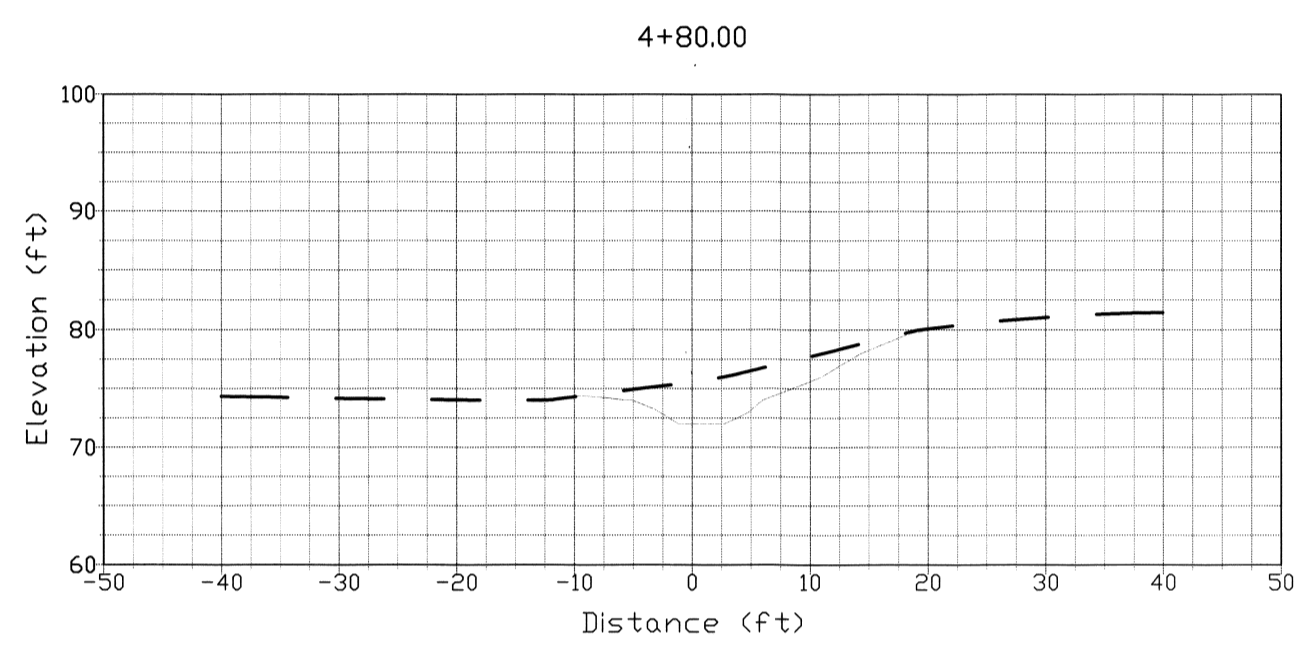
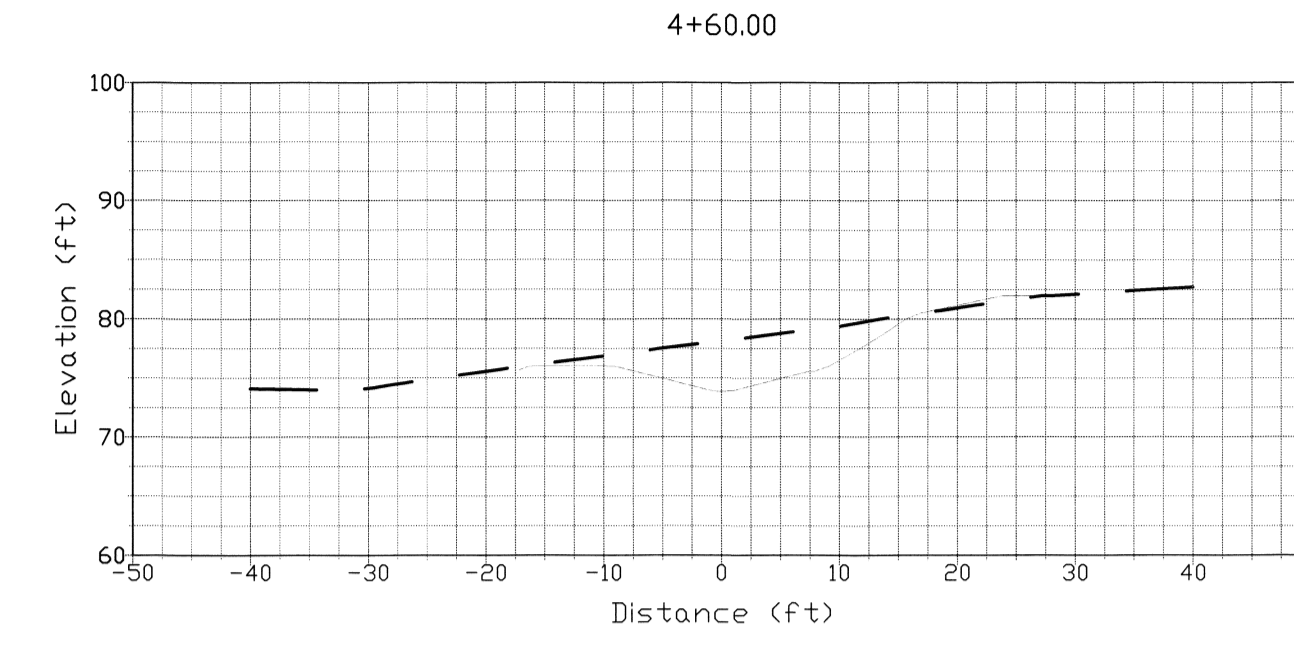
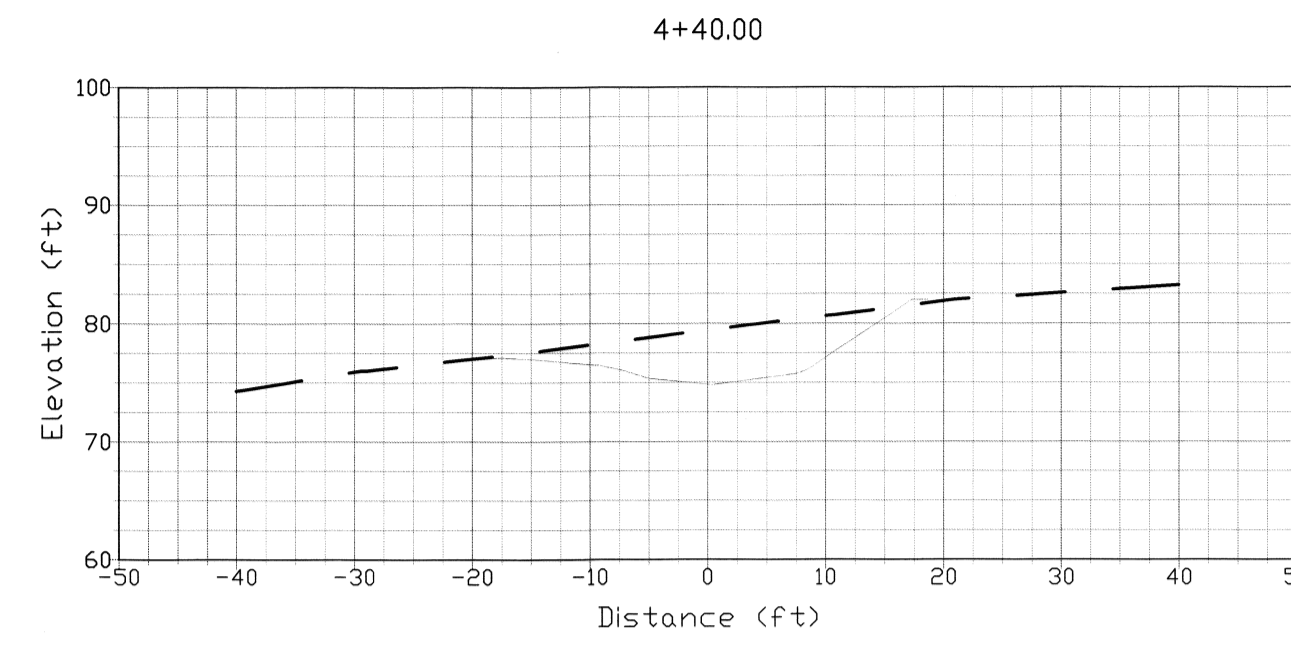
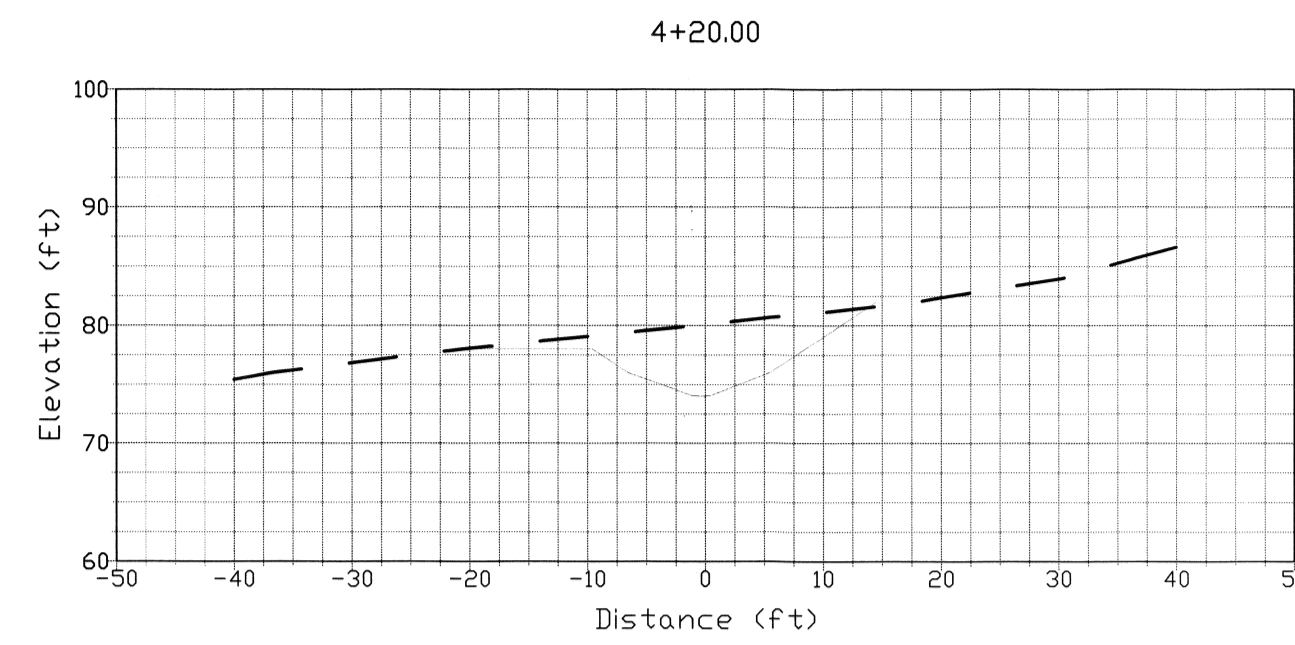
LEGEND
 - - - - - EXISTING GRADE
 _____ PROPOSED GRADE

STREAM CROSS-SECTIONS (2 OF 3)

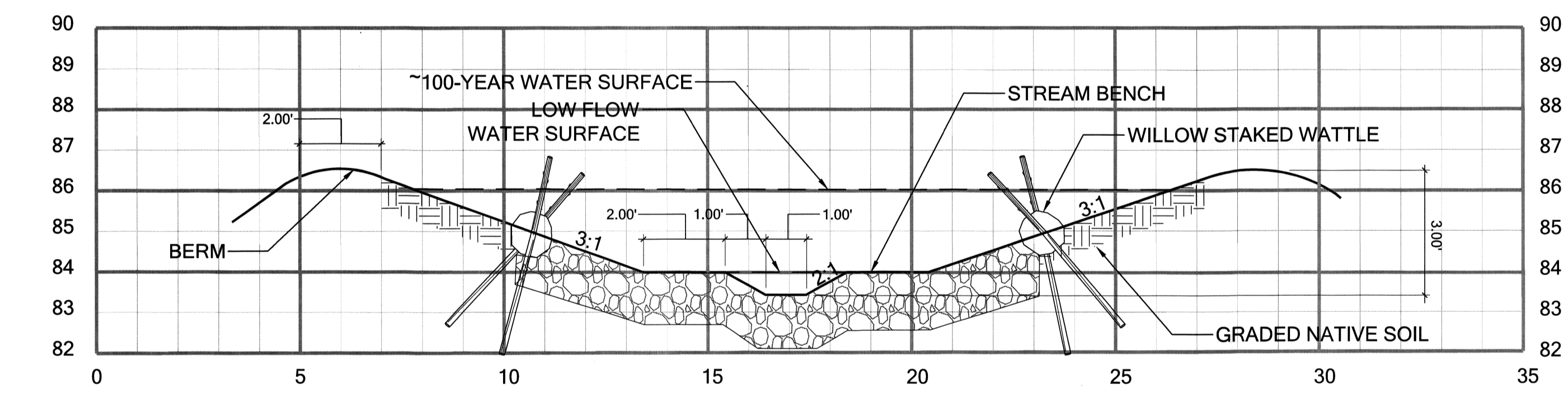
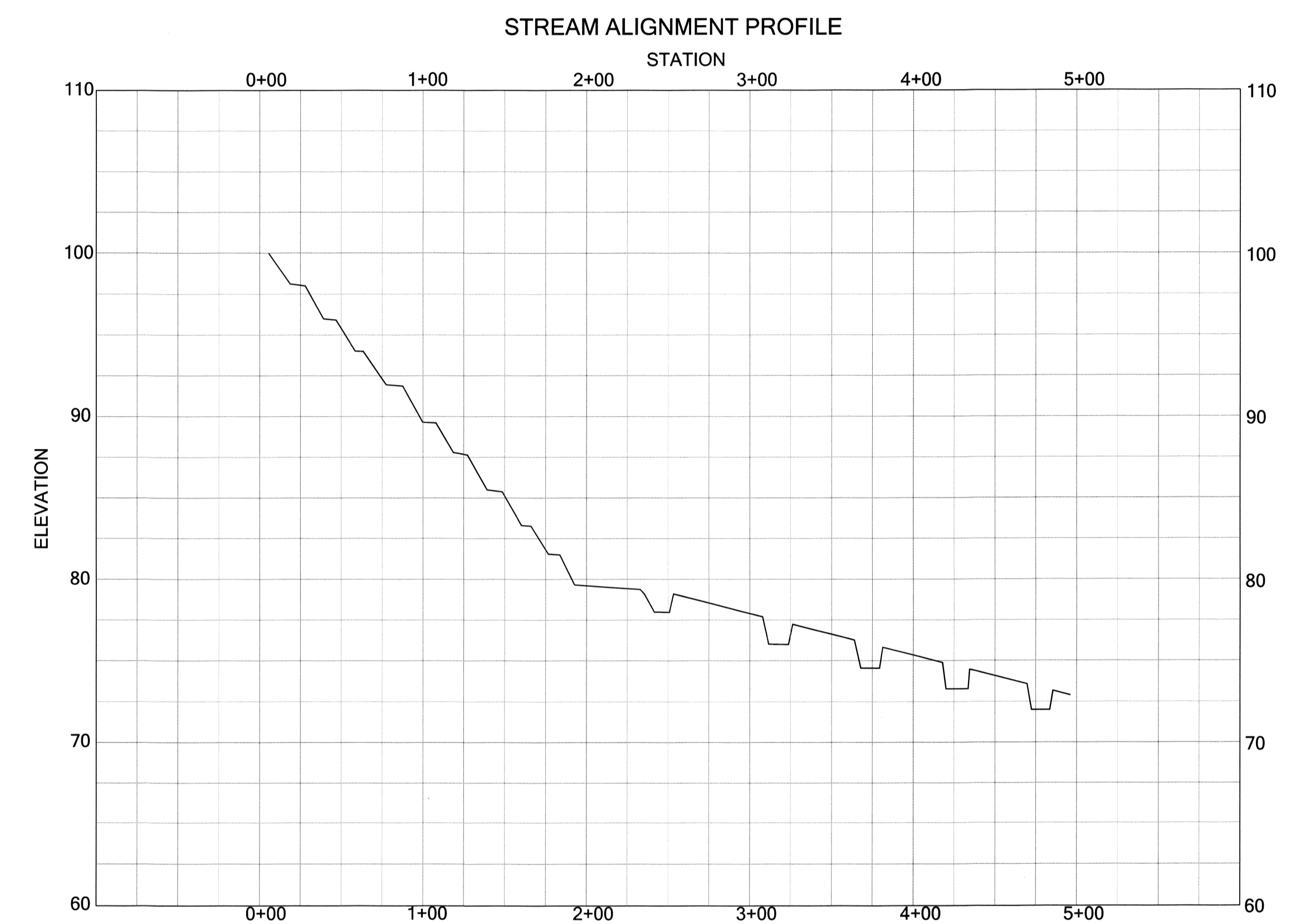
SCALE: AS SHOWN



REVISION DESCRIPTION: WO NUMBER: 141003252		RICHARDS CREEK SUBSTATION	
6/30/2017: 60% CITY OF BELLEVUE SUBMITTAL			
CAD	LM	DATE (M/D/Y)	06 / 13 / 17
ENGINEER	EM		
REVIEWED	EM		
APPROVED	S. KIM	08 / 14 / 17	
CLASS: SITE		DRAWING NO	D-18172
		REV NO	0
		SHEET:	13 OF 22
		FILE NO:	111103
		CODE:	RIC

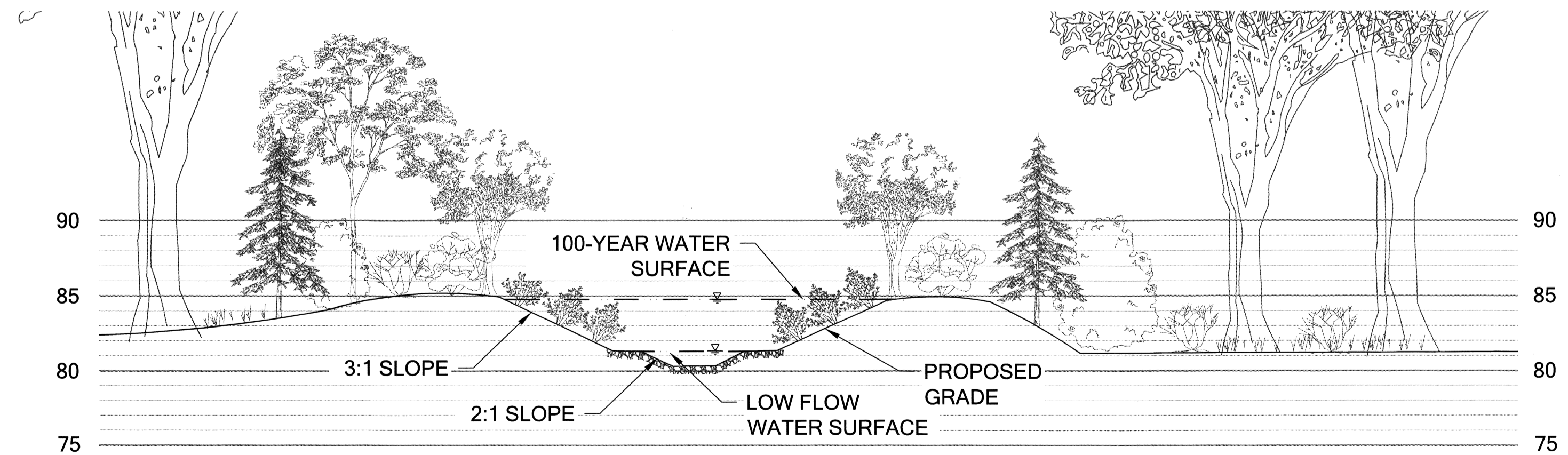


LEGEND
 - - - - - EXISTING GRADE
 _____ PROPOSED GRADE



1 STREAM TYPICAL CROSS-SECTION (STA 2+40 - 5+00) Scale: NTS

3 STREAM ALIGNMENT PROFILE Scale: NTS
 NOTE: REFER TO W-6.0 FOR CENTERLINE



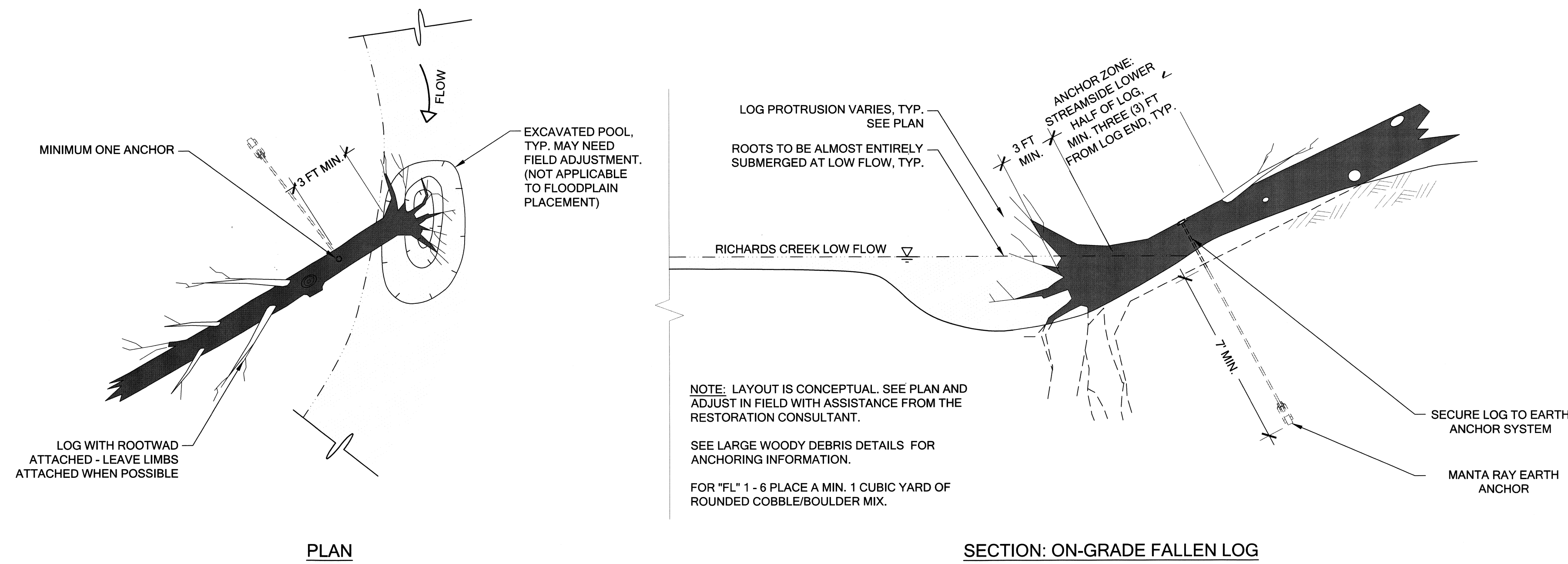
2 STREAM TYPICAL CROSS-SECTION WITH PLANTINGS Scale: NTS

STREAM CROSS-SECTIONS (3 OF 3) & PROFILE

SCALE: NTS



REVISION DESCRIPTION:		WO NUMBER: 141003252		RICHARDS CREEK SUBSTATION			
6/30/2017: 60% CITY OF BELLEVUE SUBMITTAL							
CAD	LM	DATE (M/D/Y)	06 / 13 / 17		W-6.13 STREAM CROSS-SECTIONS	DRAWING NO D-18172	REV NO 0
ENGINEER	EM				SHEET: 14 OF 22	FILE NO: 111103	
REVIEWED	EM				CLASS: SITE	CODE: RIC	
APPROVED	S. KIM	06 / 14 / 17			CADD NO:		

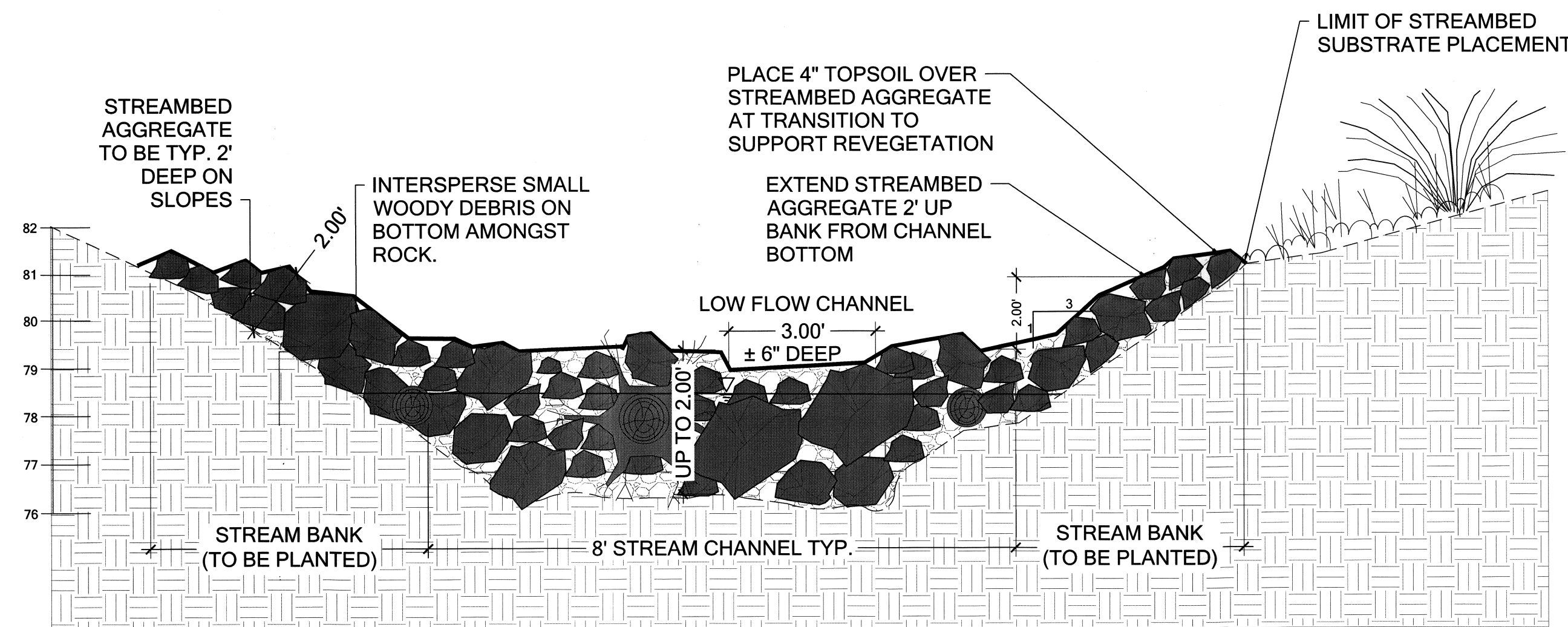


MATERIALS SPECIFICATIONS

- 1) **ROOT WADS (QTY - 4):** SHALL BE NATIVE WESTERN REDCEDAR OR DOUGLAS-FIR, FREE OF ROT, MINIMUM 50% CEDAR, SUPPLIED WITH ATTACHED TRUNKS 4 TO 7 FEET IN LENGTH ABOVE THE GROUND LINE AS THE TREE GREW AND A MINIMUM OF 12 INCHES IN DIAMETER 4 FEET ABOVE THE GROUND LINE. ROOT MASSES SHALL BE FULL AND DENSE TO A MINIMUM OF 4 FEET IN DIAMETER. HEMLOCK, SPRUCE AND DECIDUOUS TREE SPECIES WILL NOT BE ACCEPTED.
- 2) **LOGS WITH ATTACHED ROOTS (QTY - 5):** SHALL BE NATIVE WESTERN REDCEDAR OR DOUGLAS-FIR, MINIMUM 50% CEDAR, A MINIMUM OF 10 INCHES IN DIAMETER AT BREST HEIGHT (DBH). ATTACHED ROOT WADS ARE TO BE FULL AND DENSE TO A MINIMUM OF 6 FEET IN DIAMETER.
- 3) **KEY MEMBER LOGS (QTY - 3):** SHALL BE NATIVE WESTERN REDCEDAR OR DOUGLAS-FIR, MINIMUM 50% CEDAR, A MINIMUM OF 18 INCHES IN DIAMETER AT BREST HEIGHT (DBH). ATTACHED ROOT WADS ARE TO BE FULL AND DENSE TO A MINIMUM OF 4 FEET IN DIAMETER.
- 4) **LOGS MAY BE TRIMMED TO FIT IN-PLACE, BUT ONLY AT THE DIRECTION OF THE STREAM RESTORATION CONSULTANT.** HEMLOCK, SPRUCE AND DECIDUOUS TREE SPECIES WILL NOT BE ACCEPTED. ALL ROOT WADS, REGARDLESS OF LENGTH OF LOG ATTACHED, ARE TO BE THOROUGHLY POWER-WASHED FREE OF SOIL AND SEDIMENT AT AN UPLAND LOCATION WHERE ALL OF THE GENERATED RUNOFF CAN INFILTRATE PRIOR TO THE LOGS BEING PLACED WITHIN THE STREAM CHANNEL.

1 **FALLEN LOG (TYP.)**

Scale: NTS



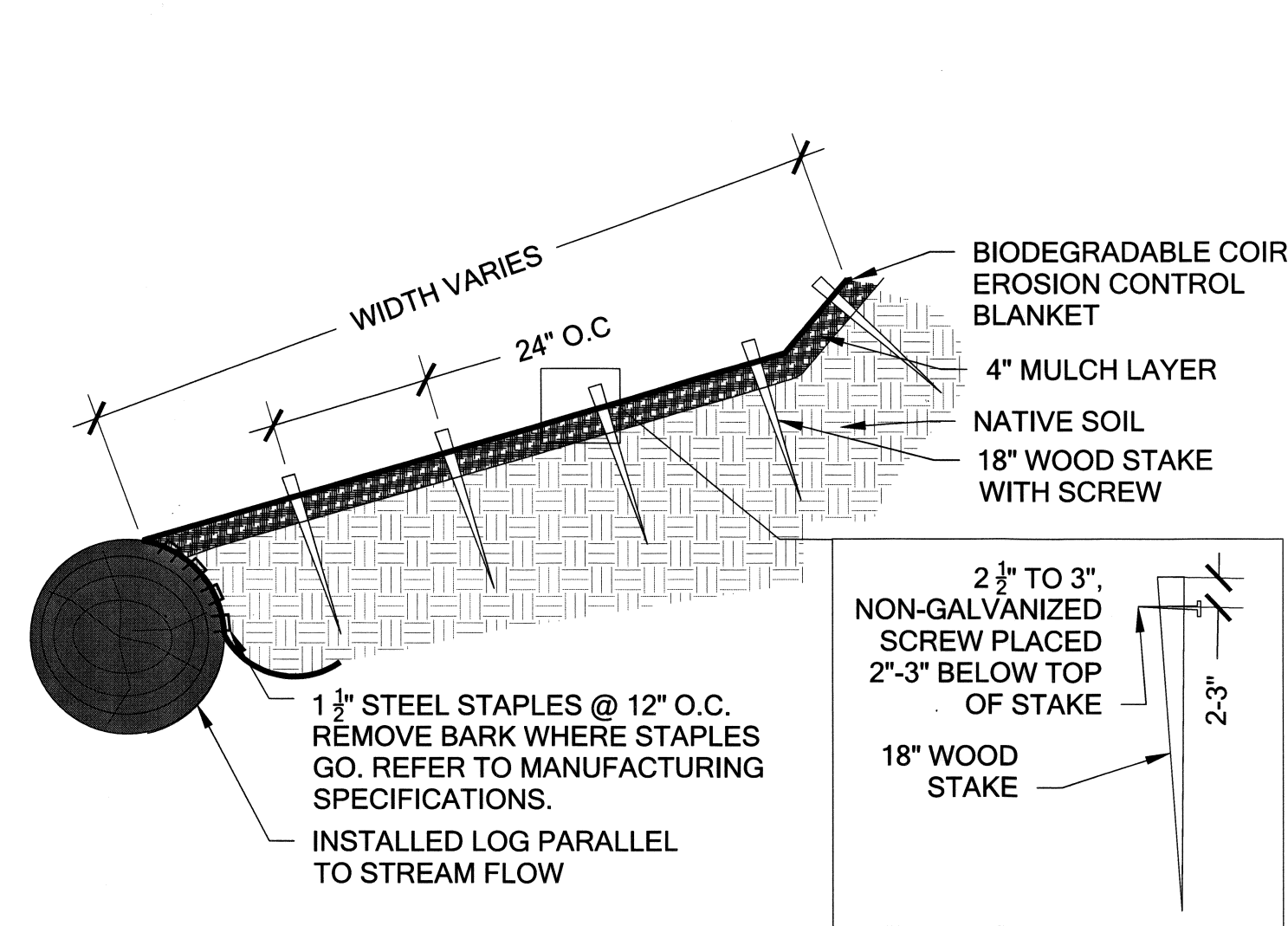
2 **ROCK MIXED WITH WOOD CROSS-SECTION (TYP.) - UPSTREAM OF CULVERT (STA 0+00 - 1+80)**

Scale: NTS

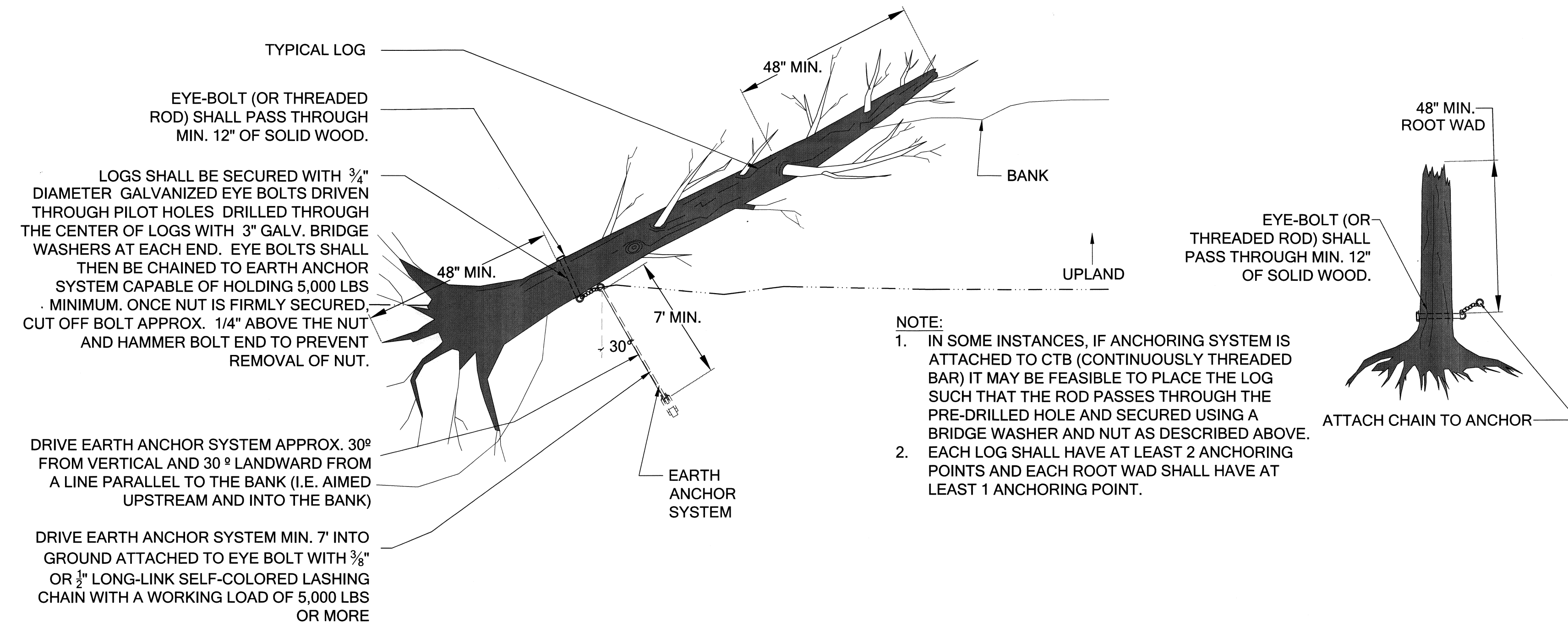
LARGE WOODY DEBRIS DETAILS



REVISION DESCRIPTION:		WO NUMBER: 141003252		RICHARDS CREEK SUBSTATION					
6/30/2017: 60% CITY OF BELLEVUE SUBMITTAL									
CAD	LM	DATE (M/D/Y)	06 / 13 / 17		W-6.21 LARGE WOODY DEBRIS DETAILS	DRAWING NO	D-18172	REV NO	0
ENGINEER	EM	/ /	/ /			SHEET:	15 OF 22		
REVIEWED	EM	/ /	/ /			CLASS:	SITE	FILE NO:	111103
APPROVED	S. Kim	08 / 14 / 17				CODE:	RIC		



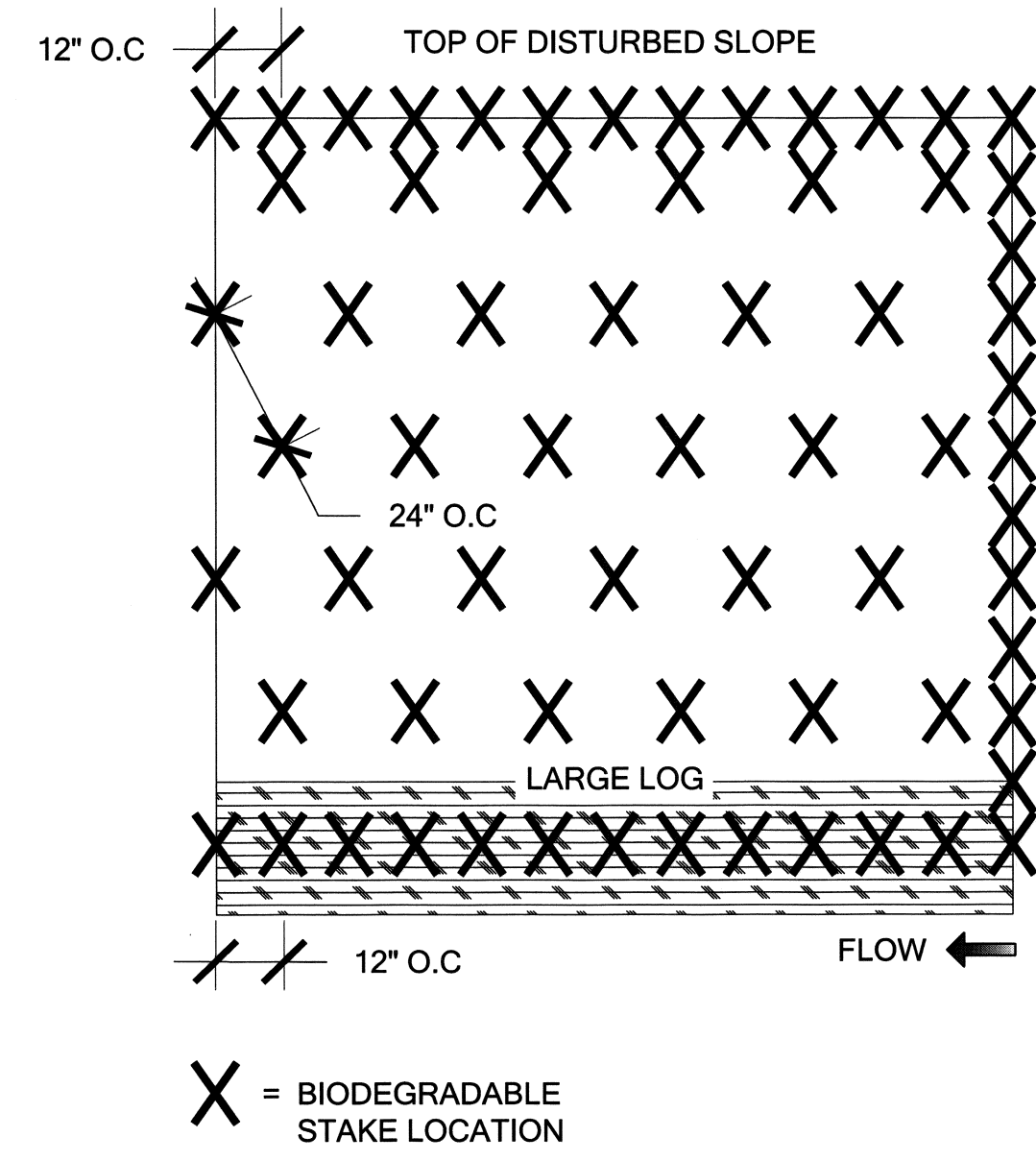
NOTES:
 STAKES ARE TO BE WOODEN, 1" BY 2" BY 18" WESTERN RED CEDAR OR FIR (NO HARDWOOD OR HEMLOCK).



NOTE:
 1. IN SOME INSTANCES, IF ANCHORING SYSTEM IS ATTACHED TO CTB (CONTINUOUSLY THREADED BAR) IT MAY BE FEASIBLE TO PLACE THE LOG SUCH THAT THE ROD PASSES THROUGH THE PRE-DRILLED HOLE AND SECURED USING A BRIDGE WASHER AND NUT AS DESCRIBED ABOVE.
 2. EACH LOG SHALL HAVE AT LEAST 2 ANCHORING POINTS AND EACH ROOT WAD SHALL HAVE AT LEAST 1 ANCHORING POINT.

1 BIODEGRADABLE EROSION CONTROL BLANKET
 Scale: NTS

3 LOG ANCHORING OPTIONS
 Scale: NTS



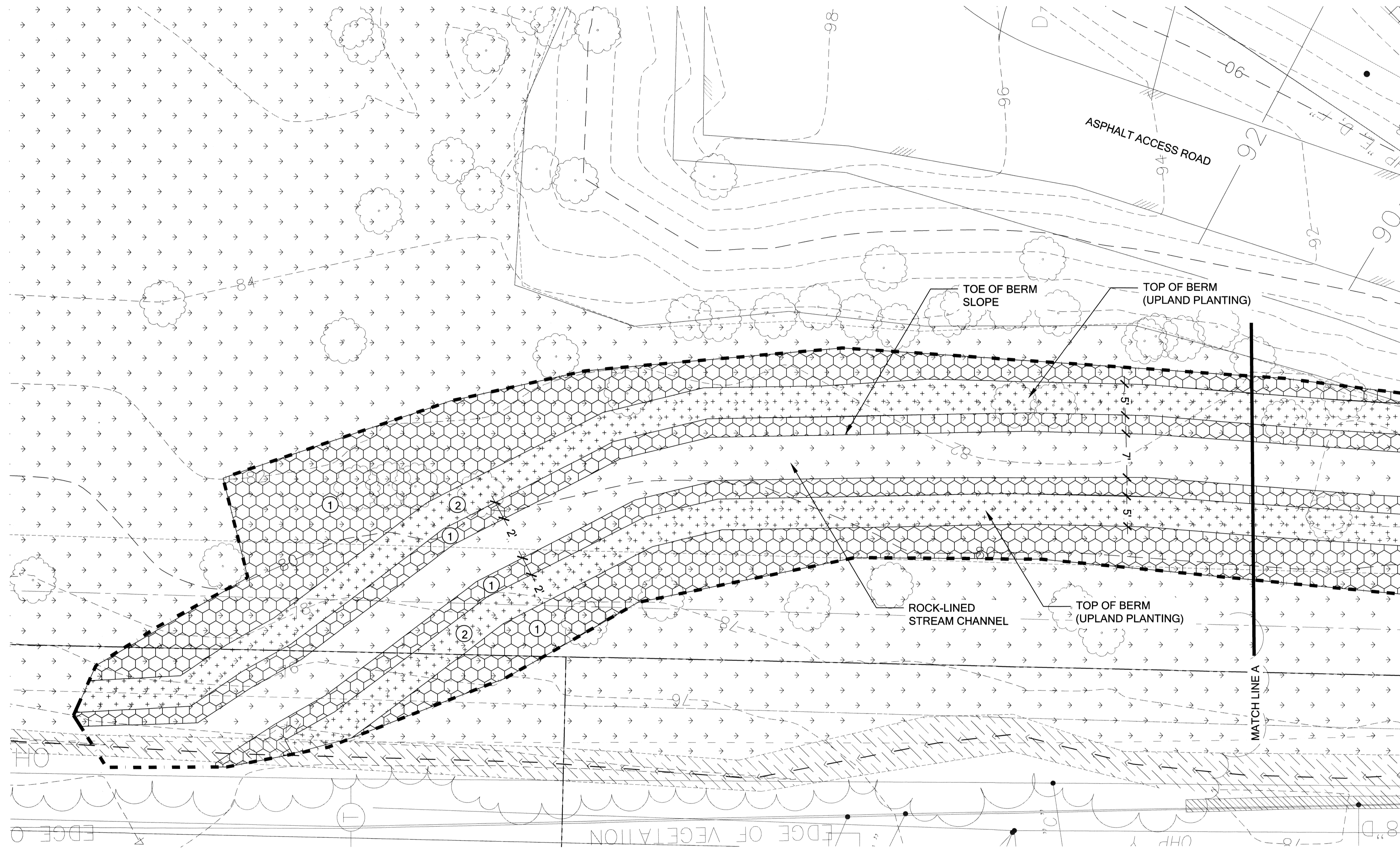
NOTES:
 1. BIODEGRADABLE COIR EROSION CONTROL BLANKET SHALL PROVIDE EROSION PROTECTION FOR 24-36 MONTHS
 2. BLANKET SHALL BE CUT LARGER THAN THE INSTALLATION AREA SHOWN ON THE CONTRACT DRAWINGS IN ORDER TO EXTEND BEYOND THE EDGES AND STAKE INTO THE SUBGRADE AS SHOWN.
 3. CLEAR ANY WEEDS OR DEBRIS FROM THE INSTALLATION AREA BEFORE INSTALLING THE BLANKET.
 4. SECURE THE BLANKET AT THE TOP WITH A ROW OF STAKES PLACED 12" APART ACROSS THE WIDTH OF THE BLANKET.
 5. ROLL THE BLANKET ACROSS SLOPE AS DIRECTED BY RESTORATION SPECIALIST
 6. THE EDGES OF ALL HORIZONTAL AND VERTICAL SEAMS MUST BE SECURED WITH A MIN. 12" OF OVERLAP, SHINGLE STYLE IN THE DIRECTION OF WATER FLOW. PLACE STAKES MIN. 6" APART ALONG THE OVERLAPPING SEAMS.
 7. STAPLE BOTTOM OF COIR TO LARGE LOG OR ROOT WAD WITH STAPLES AT 12" O.C. IN ROWS OF 4 STAPLES.
 8. ENDS OF COIR ON UPSTREAM SIDE SHALL BE INSTALLED WITH A VERTICAL ROW OF STAKES 12" O.C.
 9. STAKING PATTERN: YIELDS ROUGHLY 8.25 STAKES PER SQUARE YARD.

2 BIODEGRADABLE EROSION CONTROL BLANKET
 Scale: NTS

LARGE WOODY DEBRIS DETAILS



REVISION DESCRIPTION:		WO NUMBER: 141003252		RICHARDS CREEK SUBSTATION	
6/30/2017: 60% CITY OF BELLEVUE SUBMITTAL					
CAD	LM	DATE (M/D/Y)	06 / 13 / 17	DRAWING NO	D-18172
ENGINEER	EM			REV NO	0
REVIEWED	EM			SHEET:	16 OF 22
APPROVED	S. KIM	08 / 14 / 17		FILE NO: 111103	
			CADD NO:	CODE:	RIC

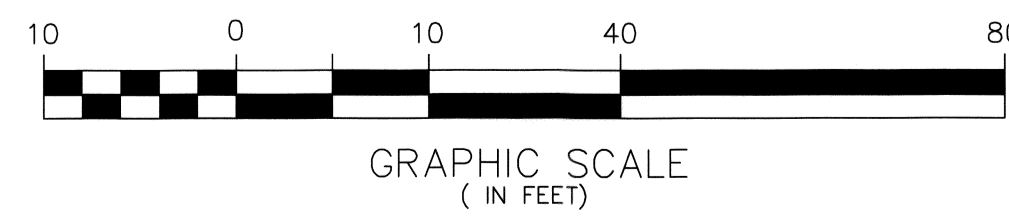
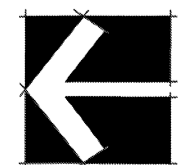


LEGEND

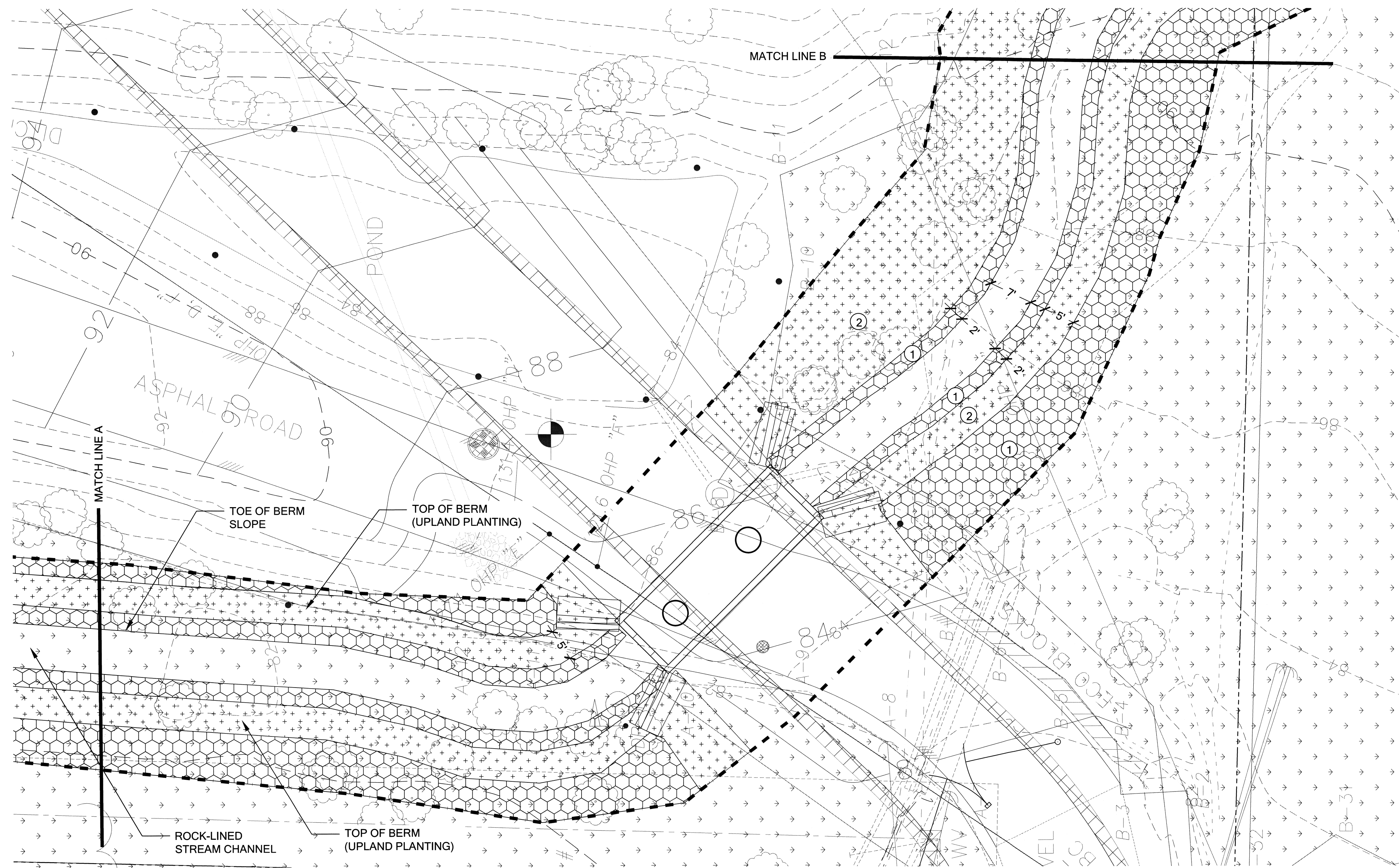
- ① WETLAND/RIPARIAN PLANTINGS (SEE W-7.3)
- ② UPLAND PLANTINGS (SEE W-7.3)

PLANTING PLAN (1 OF 3)

SCALE 1"=10'



REVISION DESCRIPTION:		WO NUMBER: 141003252		RICHARDS CREEK SUBSTATION	
6/30/2017: 60% CITY OF BELLEVUE SUBMITTAL					
CAD	LM	DATE (M/D/Y)	 PUGET SOUND ENERGY	W-7.0 PLANTING PLAN (1 OF 3)	DRAWING NO D-18172
ENGINEER	EM	/ /		SHEET: 17 OF 22	REV NO 0
REVIEWED	EM	/ /		CLASS: SITE	FILE NO: 111103
APPROVED	S. KIM	08/14/17		CADD NO:	CODE: RIC

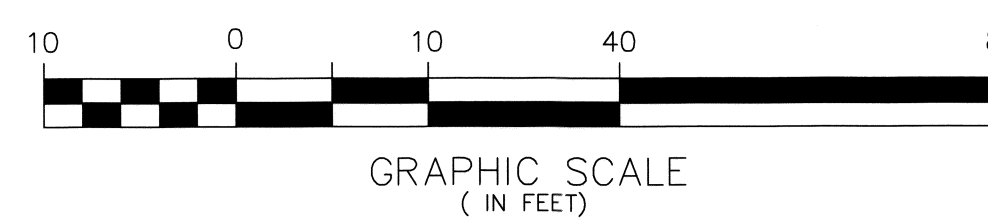
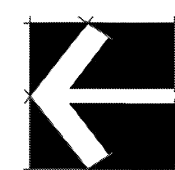


LEGEND

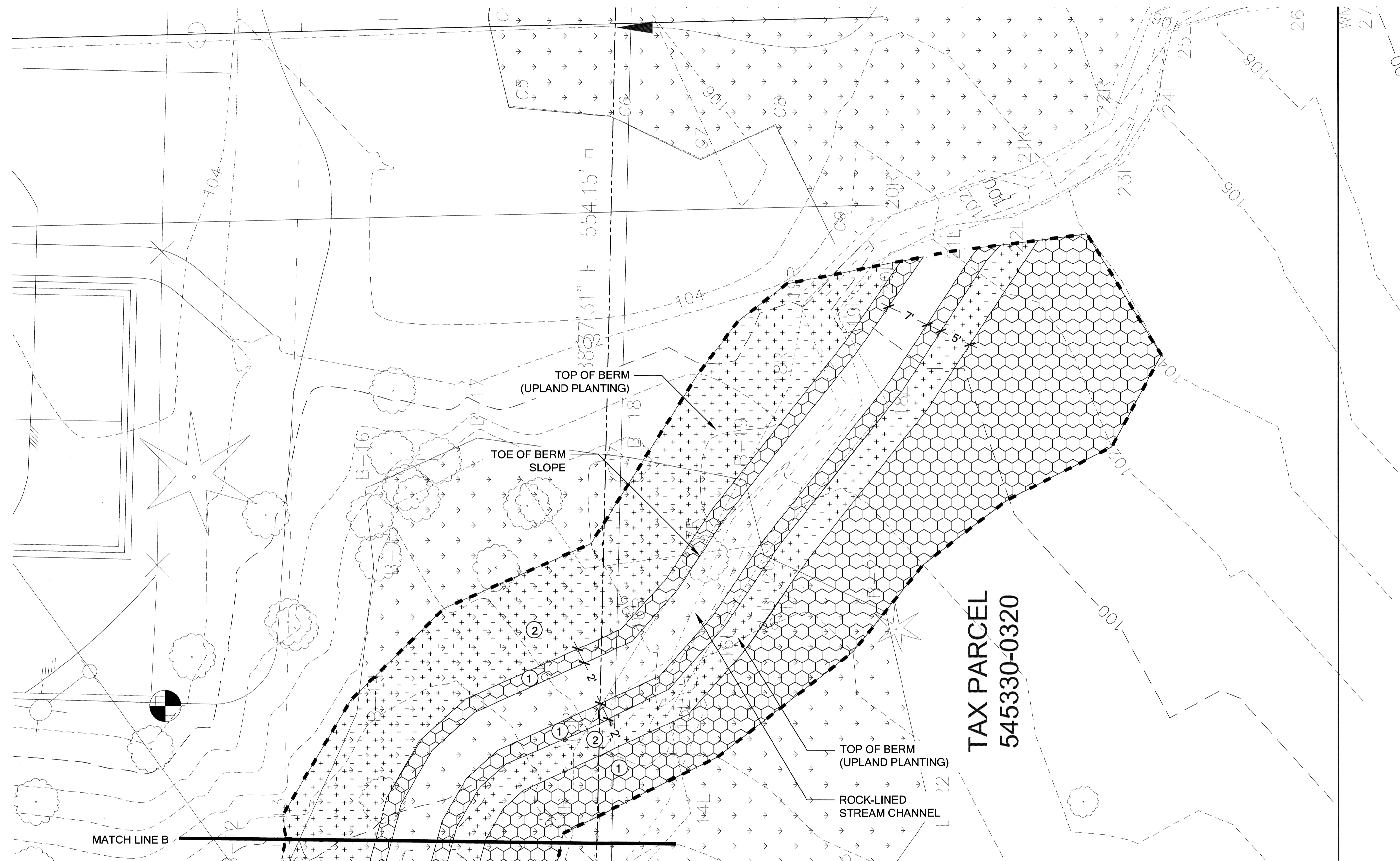
- ① WETLAND/RIPARIAN PLANTINGS (SEE W-7.3)
- ② UPLAND PLANTINGS (SEE W-7.3)

PLANTING PLAN (2 OF 3)

SCALE 1"=10'



REVISION DESCRIPTION:		WO NUMBER: 141003252		RICHARDS CREEK SUBSTATION		
6/30/2017: 60% CITY OF BELLEVUE SUBMITTAL						
CAD	LM	DATE (M/D/Y)	PUGET SOUND ENERGY	W-7.1 PLANTING PLAN (2 OF 3)	DRAWING NO	
ENGINEER	EM	/ /			D-18172	REV NO
REVIEWED	EM	/ /			18 OF 22	0
APPROVED	S. KIM	08 / 30 / 17			FILE NO: 111103	CODE: RIC
CLASS: SITE			CADD NO:			

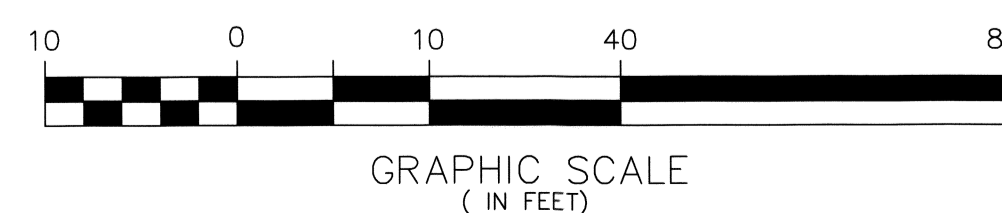
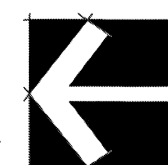


LEGEND

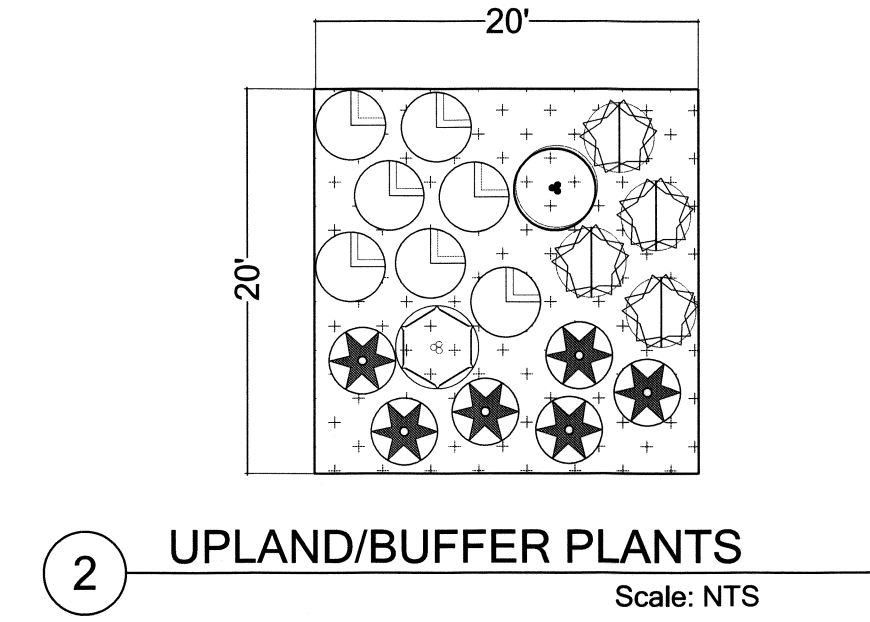
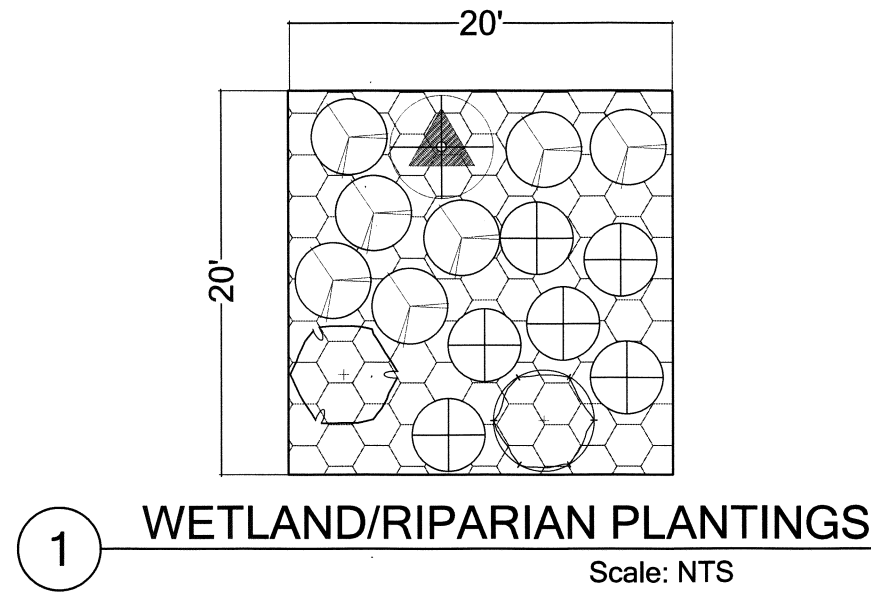
- ① WETLAND/RIPARIAN PLANTINGS (SEE W-7.3)
- ② UPLAND PLANTINGS (SEE W-7.3)

PLANTING PLAN (3 OF 3)

SCALE 1"=10'



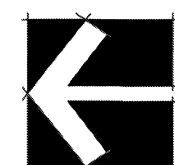
REVISION DESCRIPTION:		WO NUMBER: 141003252		RICHARDS CREEK SUBSTATION	
6/30/2017: 60% CITY OF BELLEVUE SUBMITTAL					
CAD	LM	DATE (M/D/Y)		W-7.2 PLANTING PLAN (3 OF 3)	DRAWING NO
ENGINEER	EM	/ /			D-18172
REVIEWED	EM	/ /			19 OF 22
APPROVED	S. KIM	08 / 20 / 17			FILE NO: 111103
CLASS: SITE			CADD NO:	CODE: RIC	REV NO



	QTY	SPACING	SIZE
TREES (66)			
ALNUS RUBRA / RED ALDER	12	ALL TREES TO BE SPACED PER PLAN	2 GAL.
FRAXINUS LATIFOLIA / OREGON ASH	10		2 GAL.
THUJA PLICATA / WESTERN RED CEDAR	12		2 GAL.
SALIX LUCIDA / PACIFIC WILLOW	12		2 GAL.
PICEA SITCHENSIS / SITKA SPRUCE	10		2 GAL.
SALIX SITCHENSIS / SITKA WILLOW	10		2 GAL.
SHRUBS (600)			
CORNUS SERICEA / RED-OSIER DOGWOOD	150	4' O.C.	1 GAL.
ROSA NUTKANA / NOOTKA ROSE	150		1 GAL.
RUBUS SPECTABILIS / SALMONBERRY	150		1 GAL.
PHYSOCARPUS CAPITATUS/ PACIFIC NINEBARK	150		1 GAL.
GROUNDCOVER (3600)			
*ALL SPECIES TO BE SPACED TRIANGULARLY		18" O.C.	
ATHYRIUM FILIX-FEMINA/ LADY FERN (NO INUNDATION)	900		1 GAL.
TOLMIEA MENZIESII /PIGGYBACK PLANT (NO INUNDATION)	900		1 GAL.
SCIRPUS MICROCARPUS / SMALL FRUITED BULRUSH	900		1 GAL.
CAREX OBNUPTA/ SLOUGH SEDGE (BACKWATER AREAS)	900		1 GAL.
(PLANT BY SPECIES IN ODD GROUPS OF 9-15)			

	QTY	SPACING	SIZE
TREES (48)			
PSEUDOTSUGA MENZIESII / DOUGLAS-FIR	8	ALL TREES TO BE SPACED PER PLAN	2 GAL.
THUJA PLUCATA / WESTERN RED CEDAR	8		2 GAL.
ARBUTUS MENZIESII / PACIFIC MADRONE (PLANT NEXT TO DOUGLAS-FIR)	8		2 GAL.
PRUNUS EMARGINATA / BITTER CHEERY	8		2 GAL.
SALIX SCOULERIANA / SCOULER'S WILLOW	8		2 GAL.
ACER MACROPHYLLUM / BIG LEAF MAPLE (AWAY FROM ACCESS DRIVE)	8		2 GAL.
SHRUBS (240)			
RUBUS SPECTABILIS / SALMONBERRY	40	4' O.C.	1 GAL.
SYMPHORICARPUS ALBUS / SNOWBERRY	40		1 GAL.
OEMLERIA CERASIFORMIS / OSOBERY	40		1 GAL.
MAHONIA NERVOSA / LOW OREGON GRAPE	40		1 GAL.
MAHONIA AQUIFOLIUM / TALL OREGON GRAPE	40		1 GAL.
ACER CIRCINATUM / VINE MAPLE	40		1 GAL.
GROUNDCOVER (3290)			
*ALL SPECIES TO BE SPACED TRIANGULARLY		18" O.C.	
POLYSTICHUM MUNITUM / SWORD FERN	1645		1 GAL.
BLECHNUM SPICANT / DEER FERN	1645		1 GAL.
(PLANT BY SPECIES IN ODD GROUPS OF 9-15)			

PLANTING TYPICALS & SCHEDULE



REVISION DESCRIPTION:	WO NUMBER: 141003252	RICHARDS CREEK SUBSTATION				
6/30/2017: 60% CITY OF BELLEVUE SUBMITTAL						
CAD	LM	DATE (M/D/Y)	PSE PUGET SOUND ENERGY	W-7.3 PLANTING TYPICALS & SCHEDULE	DRAWING NO	REV NO
ENGINEER	EM	06 / 13 / 17			D-18172	0
REVIEWED	EM	/ /	CLASS: SITE	SHEET: 20 OF 22	FILE NO: 111103	CODE: RIC
APPROVED	S. KM	08 / 14 / 17	CADD NO:			

PLANT INSTALLATION SPECIFICATIONS

QUALITY ASSURANCE

- PLANTS SHALL MEET OR EXCEED THE SPECIFICATIONS OF FEDERAL, STATE, AND LOCAL LAWS REQUIRING INSPECTION FOR PLANT DISEASE AND INSECT CONTROL.
- PLANTS SHALL BE HEALTHY, VIGOROUS, AND WELL-FORMED, WITH WELL DEVELOPED, FIBROUS ROOT SYSTEMS, FREE FROM DEAD BRANCHES OR ROOTS. PLANTS SHALL BE FREE FROM DAMAGE CAUSED BY TEMPERATURE EXTREMES, LACK OR EXCESS OF MOISTURE, INSECTS, DISEASE, AND MECHANICAL INJURY. PLANTS IN LEAF SHALL BE WELL FOLIATED AND OF GOOD COLOR. PLANTS SHALL BE HABITUATED TO THE OUTDOOR ENVIRONMENTAL CONDITIONS INTO WHICH THEY WILL BE PLANTED (HARDENED-OFF).
- TREES WITH DAMAGED, CROOKED, MULTIPLE OR BROKEN LEADERS WILL BE REJECTED. WOODY PLANTS WITH ABRASIONS OF THE BARK OR SUN SCALD WILL BE REJECTED.
- NOMENCLATURE: PLANT NAMES SHALL CONFORM TO *FLORA OF THE PACIFIC NORTHWEST* BY HITCHCOCK AND CRONQUIST, UNIVERSITY OF WASHINGTON PRESS, 1973 AND/OR TO *A FIELD GUIDE TO THE COMMON WETLAND PLANTS OF WESTERN WASHINGTON & NORTHWESTERN OREGON*, ED. SARAH SPEAR COOKE, SEATTLE AUDUBON SOCIETY, 1997.

DEFINITIONS

- PLANTS/PLANT MATERIALS. PLANTS AND PLANT MATERIALS SHALL INCLUDE ANY LIVE PLANT MATERIAL USED ON THE PROJECT. THIS INCLUDES BUT IS NOT LIMITED TO CONTAINER GROWN, B&B OR BAREROOT PLANTS; LIVE STAKES AND FASCINES (WATTLES); TUBERS, CORMS, BULBS, ETC.; SPRIGS, PLUGS, AND LINERS.
- CONTAINER GROWN. CONTAINER GROWN PLANTS ARE THOSE WHOSE ROOT BALLS ARE ENCLOSED IN A POT OR BAG IN WHICH THAT PLANT GREW.

SUBSTITUTIONS

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN SPECIFIED MATERIALS IN ADVANCE IF SPECIAL GROWING, MARKETING OR OTHER ARRANGEMENTS MUST BE MADE IN ORDER TO SUPPLY SPECIFIED MATERIALS.
- SUBSTITUTION OF PLANT MATERIALS NOT ON THE PROJECT LIST WILL NOT BE PERMITTED UNLESS AUTHORIZED IN WRITING BY THE PROJECT LANDSCAPE ARCHITECT.
- IF PROOF IS SUBMITTED THAT ANY PLANT MATERIAL SPECIFIED IS NOT OBTAINABLE, A PROPOSAL WILL BE CONSIDERED FOR USE OF THE NEAREST EQUIVALENT SIZE OR ALTERNATIVE SPECIES, WITH CORRESPONDING ADJUSTMENT OF CONTRACT PRICE.
- SUCH PROOF WILL BE SUBSTANTIATED AND SUBMITTED IN WRITING TO THE CONSULTANT AT LEAST 30 DAYS PRIOR TO START OF WORK UNDER THIS SECTION.

INSPECTION

- PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT FOR CONFORMANCE TO SPECIFICATIONS, EITHER AT TIME OF DELIVERY ON-SITE OR AT THE GROWER'S NURSERY. APPROVAL OF PLANT MATERIALS AT ANY TIME SHALL NOT IMPAIR THE SUBSEQUENT RIGHT OF INSPECTION AND REJECTION DURING PROGRESS OF THE WORK.
- PLANTS INSPECTED ON SITE AND REJECTED FOR NOT MEETING SPECIFICATIONS MUST BE REMOVED IMMEDIATELY FROM SITE OR RED-TAGGED AND REMOVED AS SOON AS POSSIBLE.
- THE PROJECT LANDSCAPE ARCHITECT MAY ELECT TO INSPECT PLANT MATERIALS AT THE PLACE OF GROWTH. AFTER INSPECTION AND ACCEPTANCE, THE PROJECT LANDSCAPE ARCHITECT MAY REQUIRE THE INSPECTED PLANTS BE LABELED AND RESERVED FOR PROJECT. SUBSTITUTION OF THESE PLANTS WITH OTHER INDIVIDUALS, EVEN OF THE SAME SPECIES AND SIZE, IS UNACCEPTABLE.

MEASUREMENT OF PLANTS

- PLANTS SHALL CONFORM TO SIZES SPECIFIED UNLESS SUBSTITUTIONS ARE MADE AS OUTLINED IN THIS CONTRACT.
- HEIGHT AND SPREAD DIMENSIONS SPECIFIED REFER TO MAIN BODY OF PLANT AND NOT BRANCH OR ROOT TIP TO TIP. PLANT DIMENSIONS SHALL BE MEASURED WHEN THEIR BRANCHES OR ROOTS ARE IN THEIR NORMAL POSITION.
- WHERE A RANGE OF SIZE IS GIVEN, NO PLANT SHALL BE LESS THAN THE MINIMUM SIZE AND AT LEAST 50% OF THE PLANTS SHALL BE AS LARGE AS THE MEDIAN OF THE SIZE RANGE. (EXAMPLE: IF THE SIZE RANGE IS 12" TO 18", AT LEAST 50% OF PLANTS MUST BE 15" TALL.)

SUBMITTALS

PROPOSED PLANT SOURCES

- WITHIN 45 DAYS AFTER AWARD OF THE CONTRACT, SUBMIT A COMPLETE LIST OF PLANT MATERIALS PROPOSED TO BE PROVIDED DEMONSTRATING CONFORMANCE WITH THE REQUIREMENTS SPECIFIED. INCLUDE THE NAMES AND ADDRESSES OF ALL GROWERS AND NURSERIES.

PRODUCT CERTIFICATES

- PLANT MATERIALS LIST - SUBMIT DOCUMENTATION TO CONSULTANT AT LEAST 30 DAYS PRIOR TO START OF WORK UNDER THIS SECTION THAT PLANT MATERIALS HAVE BEEN ORDERED. ARRANGE PROCEDURE FOR INSPECTION OF PLANT MATERIAL WITH CONSULTANT AT TIME OF SUBMISSION.
- HAVE COPIES OF VENDOR'S OR GROWERS' INVOICES OR PACKING SLIPS FOR ALL PLANTS ON SITE DURING INSTALLATION. INVOICE OR PACKING SLIP SHOULD LIST SPECIES BY SCIENTIFIC NAME, QUANTITY, AND DATE DELIVERED (AND GENETIC ORIGIN IF THAT INFORMATION WAS PREVIOUSLY REQUESTED).

DELIVERY, HANDLING, & STORAGE

NOTIFICATION

CONTRACTOR MUST NOTIFY CONSULTANT 48 HOURS OR MORE IN ADVANCE OF DELIVERIES SO THAT CONSULTANT MAY ARRANGE FOR INSPECTION.

PLANT MATERIALS

- TRANSPORTATION - DURING SHIPPING, PLANTS SHALL BE PACKED TO PROVIDE PROTECTION AGAINST CLIMATE EXTREMES, BREAKAGE AND DRYING. PROPER VENTILATION AND PREVENTION OF DAMAGE TO BARK, BRANCHES, AND ROOT SYSTEMS MUST BE ENSURED.
- SCHEDULING AND STORAGE - PLANTS SHALL BE DELIVERED AS CLOSE TO PLANTING AS POSSIBLE. PLANTS IN STORAGE MUST BE PROTECTED AGAINST ANY CONDITION THAT IS DETRIMENTAL TO THEIR CONTINUED HEALTH AND VIGOR.
- HANDLING - PLANT MATERIALS SHALL NOT BE HANDLED BY THE TRUNK, LIMBS, OR FOLIAGE BUT ONLY BY THE CONTAINER, BALL, BOX, OR OTHER PROTECTIVE STRUCTURE, EXCEPT BAREROOT PLANTS SHALL BE KEPT IN BUNDLES UNTIL PLANTING AND THEN HANDLED CAREFULLY BY THE TRUNK OR STEM.
- LABELS - PLANTS SHALL HAVE DURABLE, LEGIBLE LABELS STATING CORRECT SCIENTIFIC NAME AND SIZE. TEN PERCENT OF CONTAINER GROWN PLANTS IN INDIVIDUAL POTS SHALL BE LABELED. PLANTS SUPPLIED IN FLATS, RACKS, BOXES, BAGS, OR BUNDLES SHALL HAVE ONE LABEL PER GROUP.

WARRANTY

PLANT WARRANTY

PLANTS MUST BE GUARANTEED TO BE TRUE TO SCIENTIFIC NAME AND SPECIFIED SIZE, AND TO BE HEALTHY AND CAPABLE OF VIGOROUS GROWTH.

REPLACEMENT

- PLANTS NOT FOUND MEETING ALL OF THE REQUIRED CONDITIONS MUST BE REMOVED FROM SITE AND REPLACED IMMEDIATELY AT THE CONSULTANT'S DISCRETION.
- PLANTS NOT SURVIVING AFTER ONE YEAR TO BE REPLACED.

PLANT MATERIAL

GENERAL

- PLANTS SHALL BE NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES UNDER CLIMATIC CONDITIONS SIMILAR TO OR MORE SEVERE THAN THOSE OF THE PROJECT SITE.
- PLANTS SHALL BE TRUE TO SPECIES AND VARIETY OR SUBSPECIES. NO CULTIVARS OR NAMED VARIETIES SHALL BE USED UNLESS SPECIFIED AS SUCH.

QUANTITIES

SEE PLANT LIST ON ACCOMPANYING PLANS AND PLANT SCHEDULES.

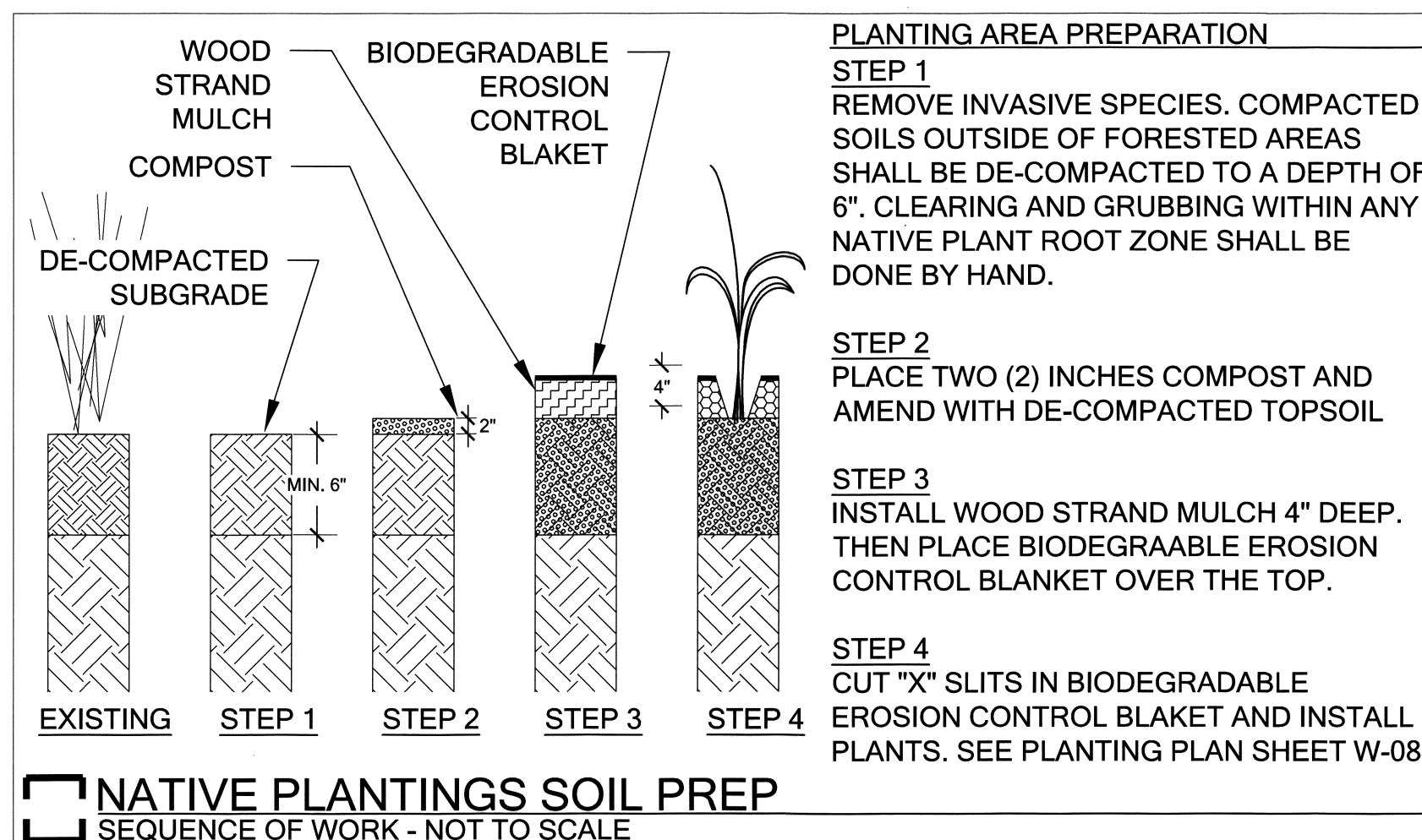
ROOT TREATMENT

- CONTAINER GROWN PLANTS (INCLUDES PLUGS): PLANT ROOT BALLS MUST HOLD TOGETHER WHEN THE PLANT IS REMOVED FROM THE POT, EXCEPT THAT A SMALL AMOUNT OF LOOSE SOIL MAY BE ON THE TOP OF THE ROOT BALL.
- PLANTS MUST NOT BE ROOT-BOUND: THERE MUST BE NO CIRCLING ROOTS PRESENT IN ANY PLANT INSPECTED.
- ROOT BALLS THAT HAVE CRACKED OR BROKEN WHEN REMOVED FROM THE CONTAINER SHALL BE REJECTED.

GENERAL PLANTING SEQUENCE:

- NATIVE PLANT INSTALLATION SHALL OCCUR DURING FROST-FREE PERIODS ONLY. PREFERRED MONTHS FOR INSTALLATION ARE BETWEEN SEPTEMBER 15TH AND APRIL 15, PRIOR TO HOT, DRY WEATHER. PLANTS MAY ONLY BE INSTALLED DURING HOT WEATHER IF THE APPLICANT AGREES TO IRRIGATION OF THE ENTIRE PLANTING AREA, DELIVERING AT LEAST 2" OF WATER PER WEEK FROM JUNE 1 THROUGH SEPTEMBER 15TH.
- PROCURE PLANTS IN LEGEND AND ENSURE THAT MATERIAL MEETS THE MINIMUM REQUIREMENTS OUTLINED IN THE PLANT LEGEND AND PLANTING DETAILS.
- LOCATE ALL EXISTING UTILITIES WITHIN THE LIMIT OF WORK.
- REMOVE ALL INVASIVE WEEDS WITHIN THE PROJECT AREA, PARTICULARLY ENGLISH IVY. AMEND SOILS WITH COMPOST IF NEEDED.
- ENSURE THAT NO ADVERSE DRAINAGE CONDITIONS EXIST THAT MAY AFFECT PROPER PLANT GROWTH AND ESTABLISHMENT. LAYOUT PLANT MATERIAL PER PLAN FOR INSPECTION BY THE LANDSCAPE ARCHITECT. PLANT SUBSTITUTIONS WILL NOT BE ALLOWED WITHOUT AGENCY APPROVAL.
- INSTALL PLANTS PER PLANTING DETAILS.
- WATER EACH PLANT THOROUGHLY TO REMOVE AIR POCKETS.
- INSTALL A 4" DEEP, COARSE WOOD-CHIP MULCH RING THROUGHOUT ENTIRE PROJECT AREA.
- INSTALL A TEMPORARY OR PERMANENT IRRIGATION SYSTEM CAPABLE OF DELIVERING 2" OF WATER PER WEEK TO THE ENTIRE PLANTED AREA. MAINTAIN IRRIGATION SYSTEM IN WORKING CONDITION FOR TWO (2) SUMMERS AFTER INITIAL PLANT INSTALLATION.

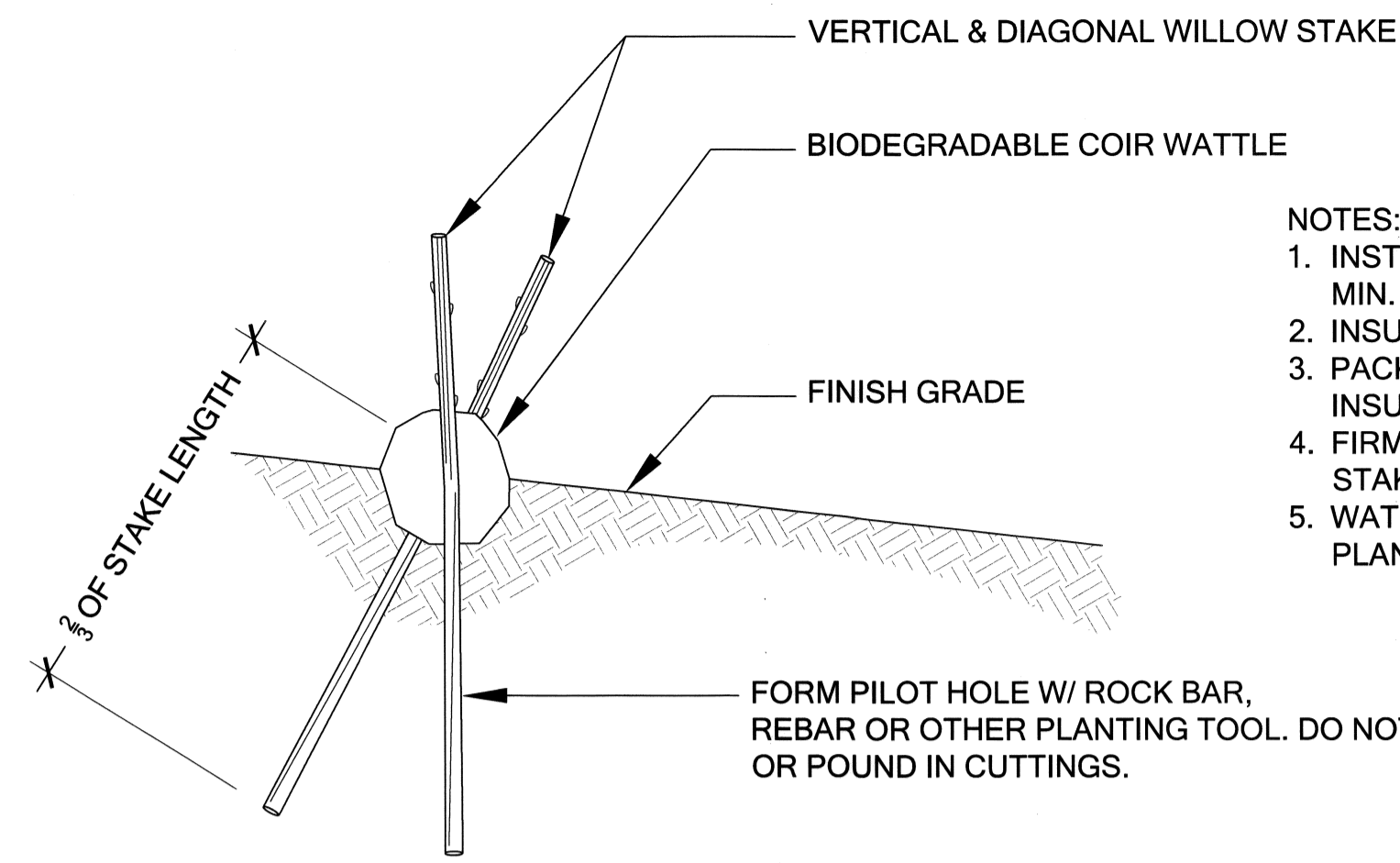
THE APPLICANT SHALL MAINTAIN ALL PLANT MATERIAL UNTIL FINAL INSPECTION AND APPROVAL AS SET FORTH IN THE PERMIT CONDITIONS. IF THE OWNER OR APPLICANT CHOOSES TO HIRE A LANDSCAPE CONTRACTOR, THEN ALL PLANTINGS AND WORKMANSHIP SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING FINAL OWNER ACCEPTANCE.



PLANTING NOTES & DETAILS (1 OF 2)

REVISION DESCRIPTION:	WO NUMBER: 141003252	RICHARDS CREEK SUBSTATION	
6/30/2017: 60% CITY OF BELLEVUE SUBMITTAL			
CAD	LM	DATE (M/D/Y)	06 / 13 / 17
ENGINEER	EM		
REVIEWED	EM		
APPROVED	S. KIM	06 / 14 / 17	
CLASS: SITE		DRAWING NO	D-18172
CADD NO:		REV NO	0
		SHEET: 21 OF 22	FILE NO: 111103
		CODE: RIC	

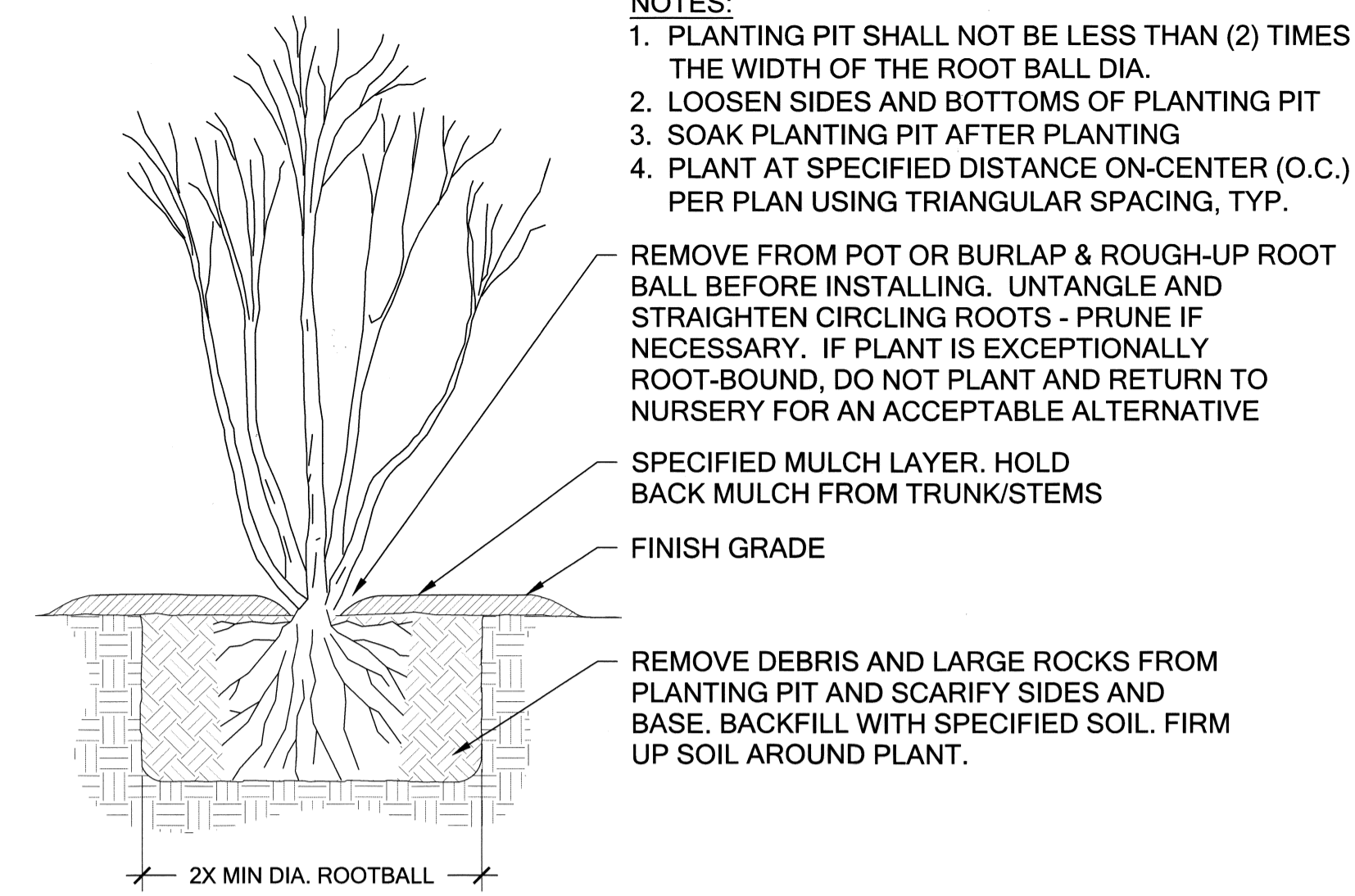




- NOTES:
1. INSTALL UPRIGHT & DIAGONAL STAKE A MIN. OF 2/3 INTO SOIL
 2. INSURE THAT BUDS ARE POINTING UP
 3. PACK SOIL INTO WATTLE SPACES, INSURE THAT 1/2 OF WATTLE IS BURIED
 4. FIRM UP SOIL AROUND INSTALLED STAKE AND WATTLE
 5. WATER STAKES AND WATTLE AFTER PLANTING

1 WILLOW WATTLE PLANTING

Scale: NTS

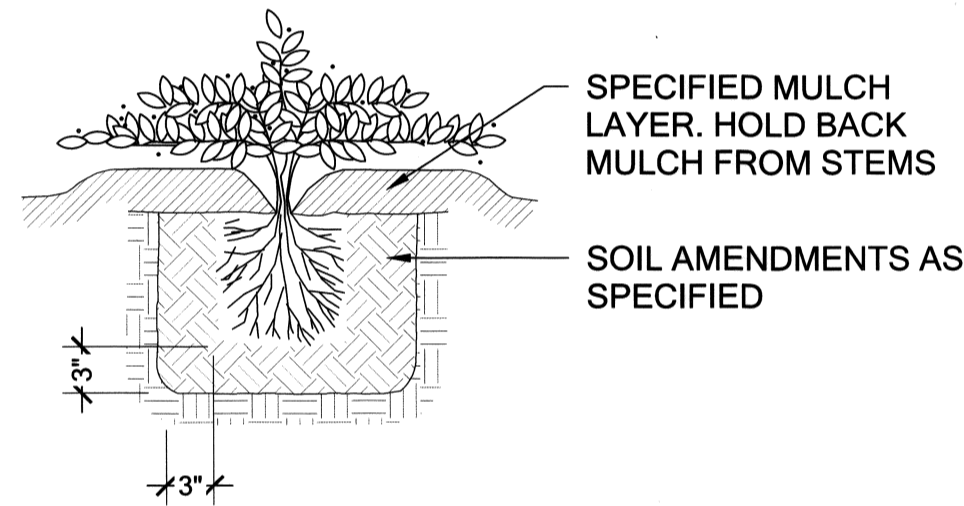


- NOTES:
1. PLANTING PIT SHALL NOT BE LESS THAN (2) TIMES THE WIDTH OF THE ROOT BALL DIA.
 2. LOOSEN SIDES AND BOTTOMS OF PLANTING PIT
 3. SOAK PLANTING PIT AFTER PLANTING
 4. PLANT AT SPECIFIED DISTANCE ON-CENTER (O.C.) PER PLAN USING TRIANGULAR SPACING, TYP.

3 TREE/SHRUB CONTAINER PLANTING

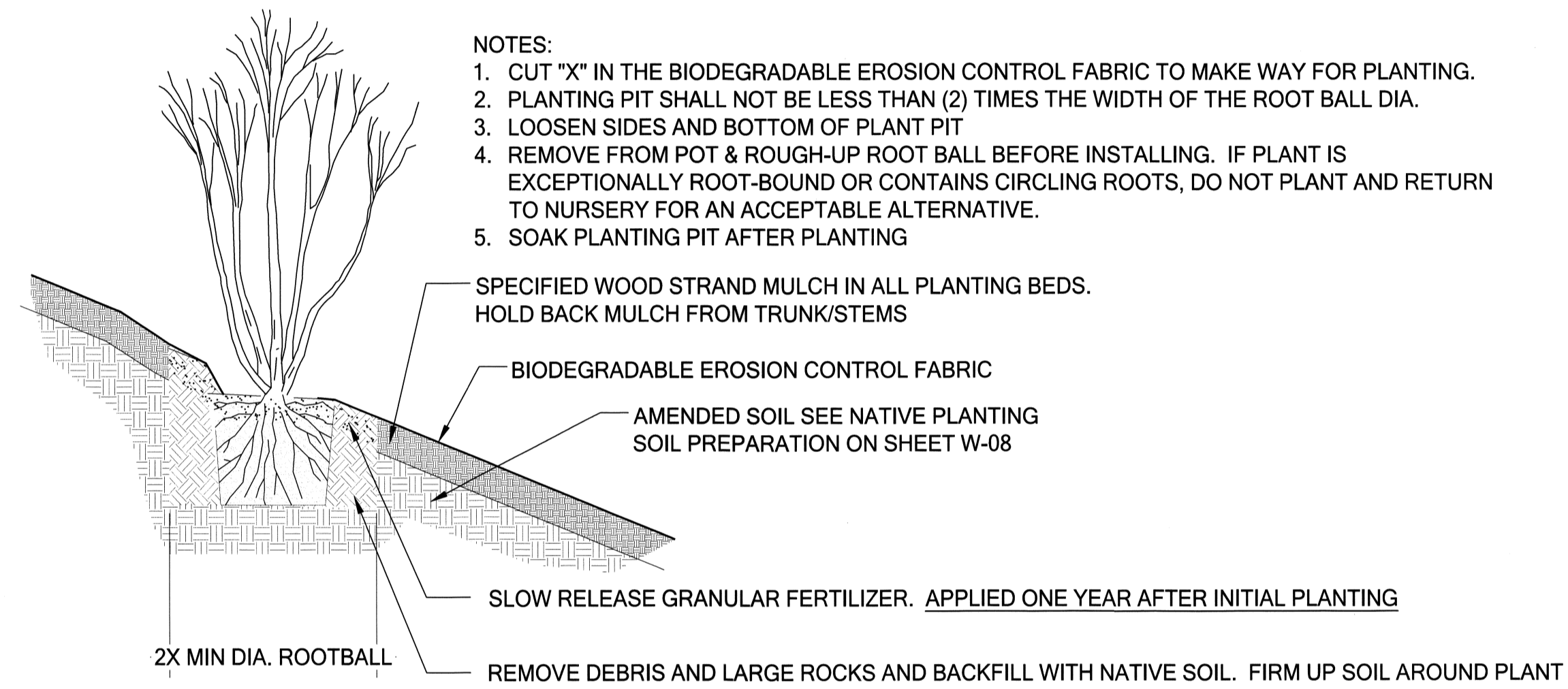
Scale: NTS

- NOTES:
1. PLANT GROUNDCOVER AT SPECIFIED DISTANCE ON-CENTER (O.C.) USING TRIANGULAR SPACING, TYP.
 2. LOOSEN SIDES AND BOTTOM OF PLANTING PIT AND REMOVE DEBRIS
 3. LOOSEN ROOTBOUND PLANTS BEFORE INSTALLING
 4. SOAK PIT BEFORE AND AFTER INSTALLING PLANT



2 GROUNDCOVER PLANTING

Scale: NTS



- NOTES:
1. CUT "X" IN THE BIODEGRADABLE EROSION CONTROL FABRIC TO MAKE WAY FOR PLANTING.
 2. PLANTING PIT SHALL NOT BE LESS THAN (2) TIMES THE WIDTH OF THE ROOT BALL DIA.
 3. LOOSEN SIDES AND BOTTOM OF PLANT PIT
 4. REMOVE FROM POT & ROUGH-UP ROOT BALL BEFORE INSTALLING. IF PLANT IS EXCEPTIONALLY ROOT-BOUND OR CONTAINS CIRCLING ROOTS, DO NOT PLANT AND RETURN TO NURSERY FOR AN ACCEPTABLE ALTERNATIVE.
 5. SOAK PLANTING PIT AFTER PLANTING

4 SLOPE CONTAINER PLANTING

Scale: NTS

PLANTING NOTES & DETAILS (2 of 2)



REVISION DESCRIPTION:		WO NUMBER: 141003252		RICHARDS CREEK SUBSTATION		
6/30/2017: 60% CITY OF BELLEVUE SUBMITTAL						
CAD	LM	DATE (M/D/Y)	06 / 13 / 17	PUGET SOUND ENERGY W-7.5 PLANTING NOTES & DETAILS (2 OF 2)	DRAWING NO D-18172	REV NO 0
ENGINEER	EM	/ /	/ /		SHEET: 22 OF 22	FILE NO: 111103
REVIEWED	EM	/ /	/ /		CLASS: SITE	CODE: RIC
APPROVED	S. KIM	08 / 14 / 17			CADD NO:	