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A horizontal number line labeled "SCALE IN FEET" with markings at 400, 0, 400, 800, and 1200. The segment from 0 to 400 is divided into four equal parts by three vertical lines. The segment from 400 to 800 is shaded gray.

<u>SHEET</u>	<u>DESCRIPTION</u>	<u>SHEET</u>	<u>DESCRIPTION</u>
1	COVER SHEET – VICINITY MAP AND SHEET INDEX	13	TYPICAL BANK SECTIONS – WEST
2	LEGEND, ABBREVIATIONS, AND GENERAL NOTES	14	TYPICAL BANK SECTIONS – EAST
3	RETAINING WALL GENERAL NOTES	15	CIVIL DETAILS (SHEET 1 OF 2)
4	TRAFFIC CONTROL PLAN (CONSTRUCTION ACCESS)	16	CIVIL DETAILS (SHEET 2 OF 2)
5	TRAFFIC CONTROL PLAN (TRAIL)	17	RETAINING WALL DETAILS
6	EXISTING SITE PLAN – WEST	18	TESC PLAN – WEST
7	EXISTING SITE PLAN – EAST	19	TESC PLAN – EAST
8	DEMOLITION PLAN – WEST	20	TESC DETAILS
9	DEMOLITION PLAN – EAST	21	PLANTING PLAN – WEST
10	PROPOSED SITE PLAN AND TRAIL PROFILE – WEST	22	PLANTING PLAN – EAST
11	PROPOSED SITE PLAN – EAST	23	PLANTING SCHEDULE, LEGEND, AND NOTES
12	PROPOSED TRAIL PROFILES – EAST		



				NUM.	REVISION	BY	DATE	APPROVED:	JAY SMITH, P.E.	3/2017	FUNDING SOURCE No.			 King County Department of Natural Resources and Parks Water and Land Resources Division River and Floodplain Management Section <i>Christie True, Director</i>	SAMMAMISH RIVER BANK REPAIRS	SHEET 1 OF 23 SHEETS
FIELD BOOK:	_____	2014-1	04/2014					PROJECT MANAGER:	DAN HECKENDORF, P.E.	3/2017	PROJECT No.	1124988				
SURVEYED:	PENDERGAST/ZHANG		04/2014					DESIGNED:	DAN HECKENDORF, P.E.	3/2017	CONTRACT No.					
SURVEY BASE MAP:	KITAMURA		05/2014													
CHECKED:	PENDERGAST		05/2014					REVIEWED:	JAY SMITH, P.E.	3/2017						
				NUM.	RECORD CHANGES APPROVED	BY	DATE	CAD DESIGN:	KAY KITAMURA	3/2017						

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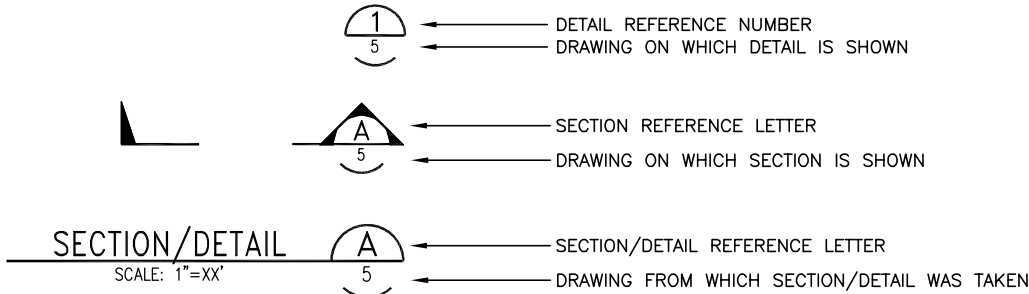
GENERAL NOTES:

1. KING COUNTY WILL STAKE OR FLAG VEGETATION TO BE PROTECTED.
2. BEFORE BEGINNING CONSTRUCTION THE CONTRACTOR SHALL VERIFY THAT EXISTING SITE CONDITIONS ARE AS INDICATED IN THE PLANS AND SPECIFICATIONS.
3. ALL LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. UTILITIES WHICH ARE NOT ABANDONED OR REMOVED SHALL BE PROTECTED, SUPPORTED, OR MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE UNDERGROUND UTILITIES LOCATION SERVICE (1-800-424-5555) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER IF A UTILITY OR OTHER EXISTING CONDITION PRESENTS A CONFLICT OR OTHERWISE PREVENTS OR INTERFERES WITH COMPLETION OF THE WORK.
4. PROTECT ALL EXISTING TREES AND SHRUBS UNLESS NOTED.
5. CLEAR AND GRUB ALL SHRUBS AND TREES NOTED TO BE REMOVED AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE PROJECT REPRESENTATIVE.

SURVEY NOTES:

1. HORIZONTAL DATUM: WASHINGTON STATE PLAN COORDINATE SYSTEM, NORTH ZONE, (NAD 83/91)
VERTICAL DATUM: NAVD 88.
2. SURVEY DOES NOT REPRESENT A BOUNDARY SURVEY OF PROPERTY OR RIGHT-OF-WAY. THIS PRELIMINARY DELINEATION OF PROPERTY LINES AND RIGHT-OF-WAY ARE ESTABLISHED FROM KING COUNTY ASSESSORS MAPS.
3. VERIFY VERTICAL ELEVATIONS AND HORIZONTAL LOCATIONS BY CHECKING CONTROL POINTS SHOWN ON PLAN SET BEFORE BEGINNING CONSTRUCTION.

DRAWING REFERENCE:



GENERAL NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE MOST CURRENT STANDARD BUILDING CODES AS ADOPTED BY KING COUNTY.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION, THE COORDINATION OF ALL WORK, SAFETY OF ALL PERSONS AT THE PROJECT SITE, AND SHALL COMPLY WITH ALL JOB RELATED SAFETY STANDARDS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL CONDITIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLANS AND THOSE UTILITIES AND UNDERGROUND OBSTRUCTIONS NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL REMOVE ALL ABANDONED UTILITIES OR UNDERGROUND OBSTRUCTIONS THAT INTERFERE WITH NEW CONSTRUCTION AND PROTECT/REPLACE THOSE IDENTIFIED ON THE PLANS. EXCAVATION SLOPES SHALL BE SAFE AND NOT GREATER THAN THE LIMITS SPECIFIED BY LOCAL, STATE AND NATIONAL SAFETY REGULATIONS.
3. THE CONTRACTOR SHALL PROVIDE PROTECTION FOR PEDESTRIANS AND VEHICULAR TRAFFIC WHEN CONSTRUCTION ACTIVITIES WARRANT SUCH PROTECTION.
4. A COPY OF THESE APPROVED PLANS AND ANY REQUIRED PERMITS MUST BE ON SITE AT ALL TIMES.
5. THE REQUIREMENTS OF THIS PLAN ARE THE MINIMUM REQUIREMENTS. THEY DO NOT REPLACE, REPEAL, ABROGATE, SUPERSEDE, OR AFFECT ANY OTHER MORE STRINGENT REQUIREMENTS, RULES, REGULATIONS, STANDARDS OR RESTRICTIONS.
6. ALL SURVEYING AND STAKING OF IMPROVEMENTS IS TO BE PROVIDED BY THE CONTRACTOR. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS PRIOR TO STARTING AND SHALL NOTIFY ENGINEER IF THERE ARE DISCREPANCIES WITH THE PLANS.
7. CONTRACTOR SHALL PROTECT NEARBY EXISTING UTILITIES, STRUCTURES, PAVEMENTS AND FACILITIES.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE TRAFFIC/ACCESS CONTROL AT ALL TIMES DURING CONSTRUCTION ALONGSIDE OR WITHIN ALL PUBLIC RIGHT OF WAYS. TRAFFIC FLOW ON EXISTING PUBLIC TRAIL SHALL BE MAINTAINED AT ALL TIMES, UNLESS PERMISSION IS OBTAINED FROM PARKS FOR TRAIL CLOSURE AND/OR DETOURS.
9. CONTRACTOR SHALL PROTECT ANY POWER POLES NEAR EXCAVATION PER WAC 296-155-655(9)(a).
10. THE CONTRACTOR SHALL KEEP AFFECTED OFFSITE STREETS CLEAN AT ALL TIMES.
11. THE ENGINEER MUST BE ONSITE DURING CRITICAL CONSTRUCTION OPERATIONS.
12. REFERENCE DATA: THE EXISTING SITE, TOPOGRAPHIC, UTILITY DATA, AND THE PROPOSED GRADES AND ELEVATIONS ARE BASED ON THE FOLLOWING ELECTRONIC DRAWINGS: KING COUNTY SRBR 30% DESIGN PROGRESS COPY 12/8/2016
13. THE SCOPE OF WORK TO BE PERFORMED INCLUDES THE FOLLOWING:

EXCAVATION OF AN APPROXIMATELY 4-FOOT WIDE CONSTRUCTION BENCH ALONG THE WALL ALIGNMENT.

CONSTRUCTION OF APPROXIMATELY 70 LINEAR FEET OF CANTILEVERED SOLIDER PILE WALL WITH CONCRETE LAGGING AS SHOWN ON THE PLANS.

RESTORATION OF SURFACING TO EXISTING CONDITIONS

SOLDIER PILE WALL NOTES

GEOTECHNICAL INFORMATION AND CRITERIA
INSTALLATION OF THE SOLDIER PILE RETAINING WALL SHALL CONFORM WITH THE REQUIREMENTS BELOW AND/OR AS DIRECTED BY THE ENGINEER. THE SUBSURFACE CHARACTERIZATIONS USED TO DESIGN THE RETAINING WALL INCLUDE SITE INVESTIGATIONS BY OTHERS AS SUMMARIZED IN THE TECHNICAL MEMO PROVIDED BY ASPECT CONSULTING, LLC, DATED FEBRUARY 1, 2017.

WALL DESIGN CRITERIA:

LATERAL EARTH PRESSURES:

ACTIVE EARTH PRESSURE (ABOVE BASE)
ACTIVE EARTH PRESSURE (BELOW BASE)
DYNAMIC EARTH PRESSURE
PASSIVE EARTH PRESSURE

EQUIVALENT FLUID PRESSURES (E.F.P)

___ PCF
___ PCF
___ *H
___ PCF

WALL DURATION: THE WALL IS PERMANENT.

SOLDIER PILE WALL NOTES - CONTINUED

- MATERIALS
1. AT LEAST ONE (1) WEEK PRIOR TO WORK COMMENCING, THE CONTRACTOR SHALL PROVIDE MANUFACTURER'S DOCUMENTATION AND OR SAMPLES OF THE MATERIALS PLANNED FOR USE IN THE CONSTRUCTION.
2. DRILLED SHAFTS SHALL BE BACKFILLED USING LEAN MIX CONCRETE OR CONTROLLED DENSITY FILL (CDF) WITH A 28-DAY COMPRESSIVE STRENGTH OF AT LEAST 1,500 PSI.
3. STRUCTURAL STEEL SECTIONS SHALL CONFORM TO ASTM A992 GRADE 50. THE UPPERMOST 10-FEET OF THE STEEL SECTIONS SHALL BE PROTECTED FROM CORROSION WITH PRIMER AND 16 MIL EPOXY POLYAMIDE TOP-COAT IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS.
4. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "AISC SPECIFICATION FOR DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
5. SOLDIER PILE WALL BACKFILL SHALL CONSIST OF GRAVEL BACKFILL FOR WALLS, AS DEFINED IN SECTION 9-03.12(2) OF THE 2016 WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
- PRE-CAST CONCRETE LAGGING
6. LAGGING BETWEEN PILES SHALL BE PRE-CAST CONCRETE PANELS.
7. CONCRETE PANELS SHALL BE 6-INCH THICK (MINIMUM) AND 24-INCH TALL.
8. LAGGING SHALL BE PLACED TO ENSURE ADEQUATE DRAINAGE AND PREVENTION OF HYDROSTATIC PRESSURES BEHIND WALL.
9. SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR PRECAST LAGGING FROM MANUFACTURER. CALCULATIONS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WASHINGTON.
10. EXTEND LAGGING (MINIMUM) 2-FEET BELOW FINISHED GRADE.
- DRILLED SHAFT CONSTRUCTION
11. THE SOLDIER PILE SHAFTS SHALL BE A MINIMUM OF 24 INCHES IN DIAMETER, AND MUST BE DRILLED AT LEAST ONE FOOT DEEPER THAN THE BOTTOM OF STEEL SOLDIER PILES INDICATED IN THE PLANS.
12. THE CONTRACTOR SHALL PROVIDE SUITABLE EQUIPMENT TO ADVANCE THE SHAFT EXCAVATION TO THE DESIGN DEPTH IN A CONTINUOUS OPERATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE SAFETY OF THE SHAFT, SURROUNDING SOIL, AND THE STABILITY OF THE SHAFT SIDE WALLS. IF CAVING CONDITIONS ARE ENCOUNTERED, THE CONTRACTOR SHALL USE TEMPORARY CASING OR OTHER METHODS, ON APPROVAL OF THE ENGINEER. NO EXTRA PAYMENT WILL BE MADE FOR USE OF TEMPORARY CASING OR OTHER SHAFT STABILIZATION METHODS.
13. SHAFT EXCAVATION MAY BE SUSPENDED WITH THE APPROVAL OF THE ENGINEER. IN SUCH A CASE, THE SHAFT SHALL BE SECURED WITH AN APPROPRIATE SAFETY COVER. IF NECESSARY, A TEMPORARY CASING SHALL BE USED.
14. ALL SHAFT EXCAVATIONS MUST BE INSPECTED BY THE ENGINEER. IMMEDIATELY UPON COMPLETION OF SHAFT EXCAVATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER THAT THE SHAFT EXCAVATION IS READY FOR INSPECTION. THE CONTRACTOR SHALL HAVE AVAILABLE A SUITABLE LIGHT FOR INSPECTION OF THE SHAFT EXCAVATION, AND PLUMB WEIGHT AND TAPE TO CHECK VERTICAL ALIGNMENT AND DEPTH.
15. DEVIATION OF SHAFT EXCAVATIONS FROM THE DESIGN LOCATIONS SHALL NOT EXCEED THREE (3) INCHES. TOLERANCE FOR PLUMBNESS SHALL NOT EXCEED FOUR (4) INCHES. ALL EXCAVATIONS NOT WITHIN TOLERANCE SHALL BE CORRECTED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
16. LEAN MIX CONCRETE SHALL BE PLACED WITHOUT DELAY FOLLOWING ACCEPTANCE BY THE ENGINEER. LEAN MIX CONCRETE CAST CONTINUOUSLY IN A SINGLE POUR AND SHALL BE PLACED BY TREMIE METHODS IF THERE IS MORE THAN 12 INCHES OF WATER IN THE SHAFT. THE CONCRETE MUST BE FILLED TO AT LEAST THE ELEVATION OF THE BOTTOM OF THE LAGGING. AT PILES WHERE THE BOTTOM OF THE LAGGING IS STAGGERED, THE LEAN MIX CONCRETE MUST BE FILLED TO THE ELEVATION OF THE HIGHER LAGGING PANEL.
17. THE WALL MAY NOT BE LOADED UNTIL AT LEAST 12 HOURS AFTER PLACING THE LEAN MIX CONCRETE IN THE SHAFTS.
18. DRILLED SHAFT SPOILS SHALL BE EXPORTED FROM THE SITE TO A SUITABLE DISPOSAL AREA.
19. WHERE REQUIRED, BACKFILL SHALL BE PLACED AND COMPACTED IN 8-INCH HORIZONTAL LIFTS WITH MECHANICAL TAMPERS (E.G., JUMPING JACK) TO A DENSE AND UNYIELDING CONDITION.

CONSTRUCTION SEQUENCE

1. ESTABLISH CLEARING LIMITS AND SILT FENCE
2. ESTABLISH CONSTRUCTION ACCESS
3. DRILL AND INSTALL SOLDIER PILES
4. EXCAVATE FOR LAGGING INSTALLATION
5. INSTALL CONCRETE LAGGING
6. ESTABLISH FINAL GRADES
7. INSTALL EROSION CONTROL BLANKET
8. REMOVE CONSTRUCTION ACCESS
9. RESTORE SITE AND ESTABLISH PERMANENT EROSION CONTROL
10. REMOVE TEMPORARY EROSION CONTROL

SHORING MONITORING NOTES

1. MONITORING OF THE SHORING SYSTEM SHALL INCLUDE MEASUREMENTS OF VERTICAL AND HORIZONTAL MOVEMENTS AT THE TOP OF EACH SOLDIER PILE OR AT INTERMITTENT INTERVALS AS CONSIDERED APPROPRIATE BY THE GEOTECHNICAL ENGINEER. MONITORING OF ADJACENT STRUCTURES FOR VERTICAL AND HORIZONTAL MOVEMENT SHALL ALSO BE INCLUDED.
2. THE SURVEY EQUIPMENT AND APPROACH USED FOR THE SHORING MONITORING SHALL HAVE AN ACCURACY OF AT LEAST 0.01 FEET FOR VERTICAL AND 0.1 FEET FOR HORIZONTAL. ALL REFERENCE POINTS ON THE EXISTING GROUND SURFACE SHALL BE INSTALLED AND READ PRIOR TO COMMENCING THE EXCAVATION. SUBSEQUENT POINTS ON THE SHORING WALL SHALL BE INSTALLED AND SURVEYED AS SOON AS POSSIBLE DURING CONSTRUCTION (PRIOR TO EXCAVATION FOR THE LAGGING) TO CREATE A BASELINE.
3. ALL MONITORING POINTS SHALL BE SURVEYED PRIOR TO AND DURING CRITICAL STAGES OF CONSTRUCTION. THE FREQUENCY OF READINGS WILL DEPEND ON THE RESULTS OF PREVIOUS READINGS. AT A MINIMUM, READINGS SHALL BE TAKEN AT LEAST ONCE A WEEK THROUGHOUT CONSTRUCTION.
4. POST-CONTSTRUCTION MONITORING SHOULD CONTINUE AT A LOWER FREQUENCY (DETERMINED BY THE GEOTECHNICAL ENGINEER), DEPENDING ON THE RESULTS OF THE SURVEY AT THE END OF CONSTRUCTION.
5. ALL SOLDIER PILE MONITORING DATA SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER.
6. IF HORIZONTAL MOVEMENT OF THE SOLDIER PILES EXCEEDS 0.5-INCH, IMMEDIATELY STOP CONSTRUCTION, BRACE THE PILES, AND CONTACT THE GEOTECHNICAL ENGINEER OF RECORD.

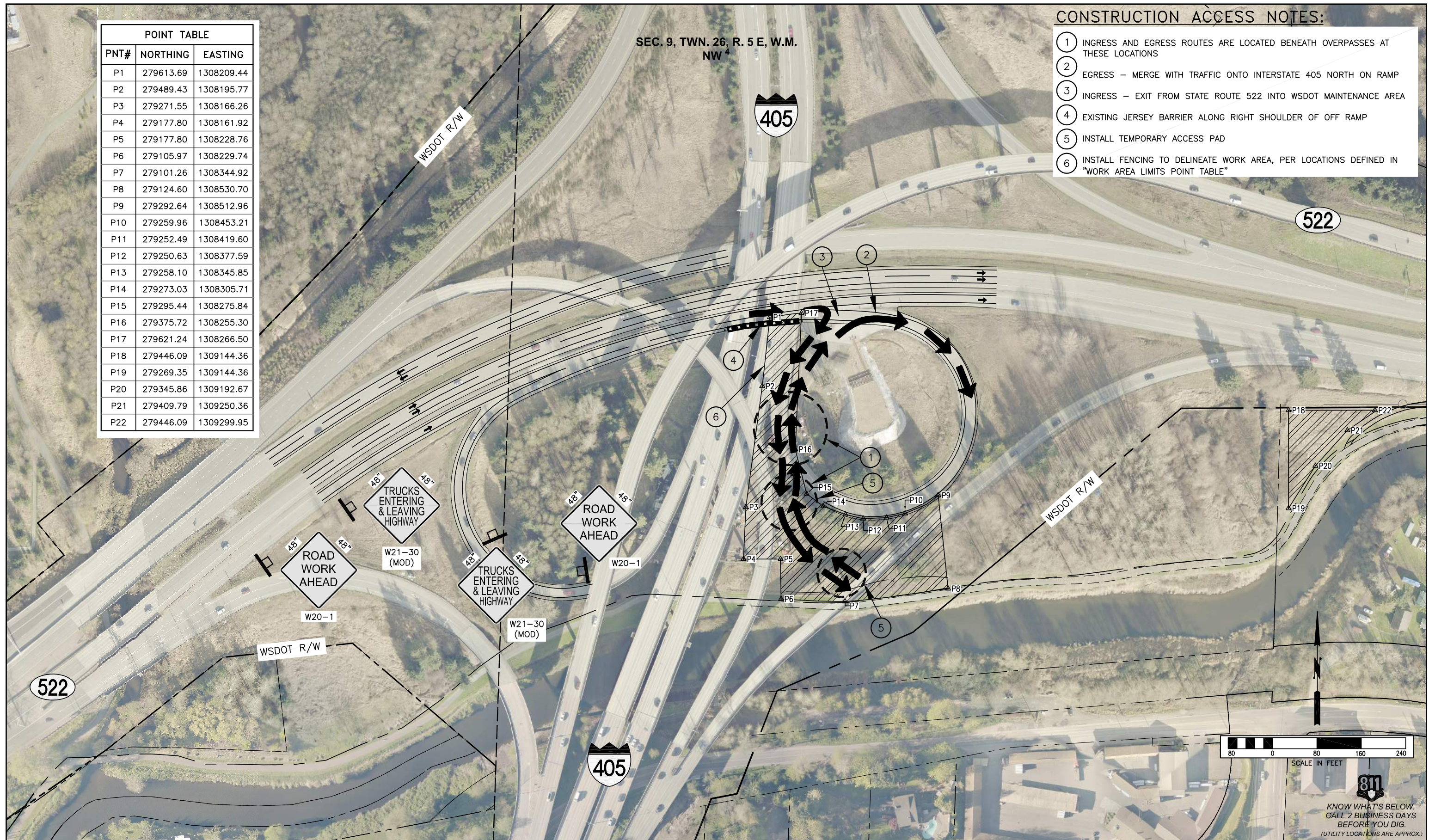




KNOW WHAT'S BELOW.
CALL 2 BUSINESS DAYS
BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK: 2014-1	04/2014	NUM.	REVISION	BY	DATE	APPROVED: JAY SMITH, P.E.	3/2017	FUNDING SOURCE No.	PROJECT No. 1124988	CONTRACT No.		 Christie True, Director	SHEET 3 OF 23 SHEETS	
	SURVEYED: PENDERGAST/ZHANG	04/2014					PROJECT MANAGER: DAN HECKENDORF, P.E.							3/2017
	SURVEY BASE MAP: KITAMURA	05/2014					DESIGNED:							3/2017
	CHECKED: PENDERGAST	05/2014					REVIEWED:							3/2017
							CAD DESIGN:							3/2017
		NUM.	RECORD CHANGES APPROVED	BY	DATE									

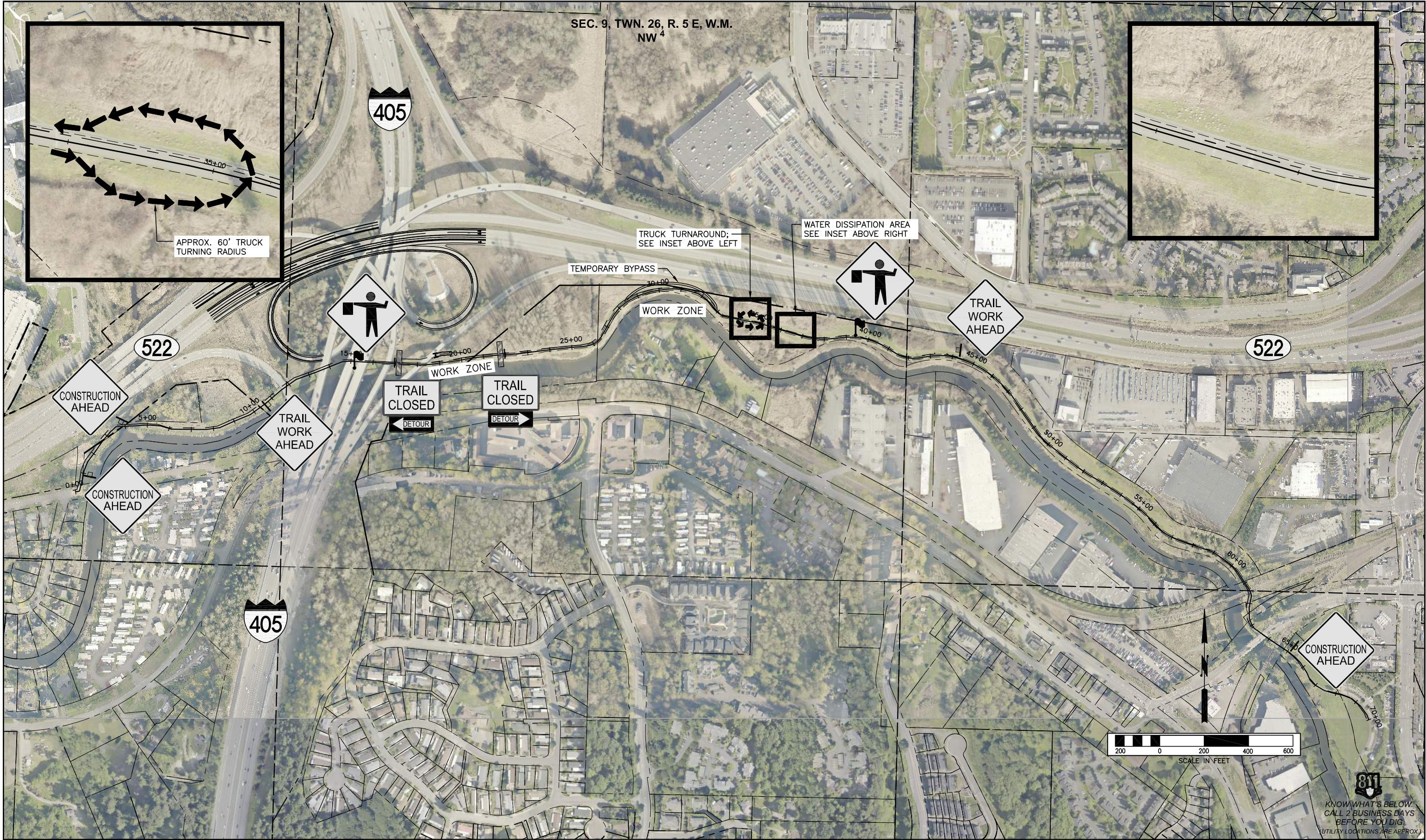
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- 1 INGRESS AND EGRESS ROUTES ARE LOCATED BENEATH OVERPASSES AT THESE LOCATIONS
- 2 EGRESS – MERGE WITH TRAFFIC ONTO INTERSTATE 405 NORTH ON RAMP
- 3 INGRESS – EXIT FROM STATE ROUTE 522 INTO WSDOT MAINTENANCE AREA
- 4 EXISTING JERSEY BARRIER ALONG RIGHT SHOULDER OF OFF RAMP
- 5 INSTALL TEMPORARY ACCESS PAD
- 6 INSTALL FENCING TO DELINEATE WORK AREA, PER LOCATIONS DEFINED IN "WORK AREA LIMITS POINT TABLE"



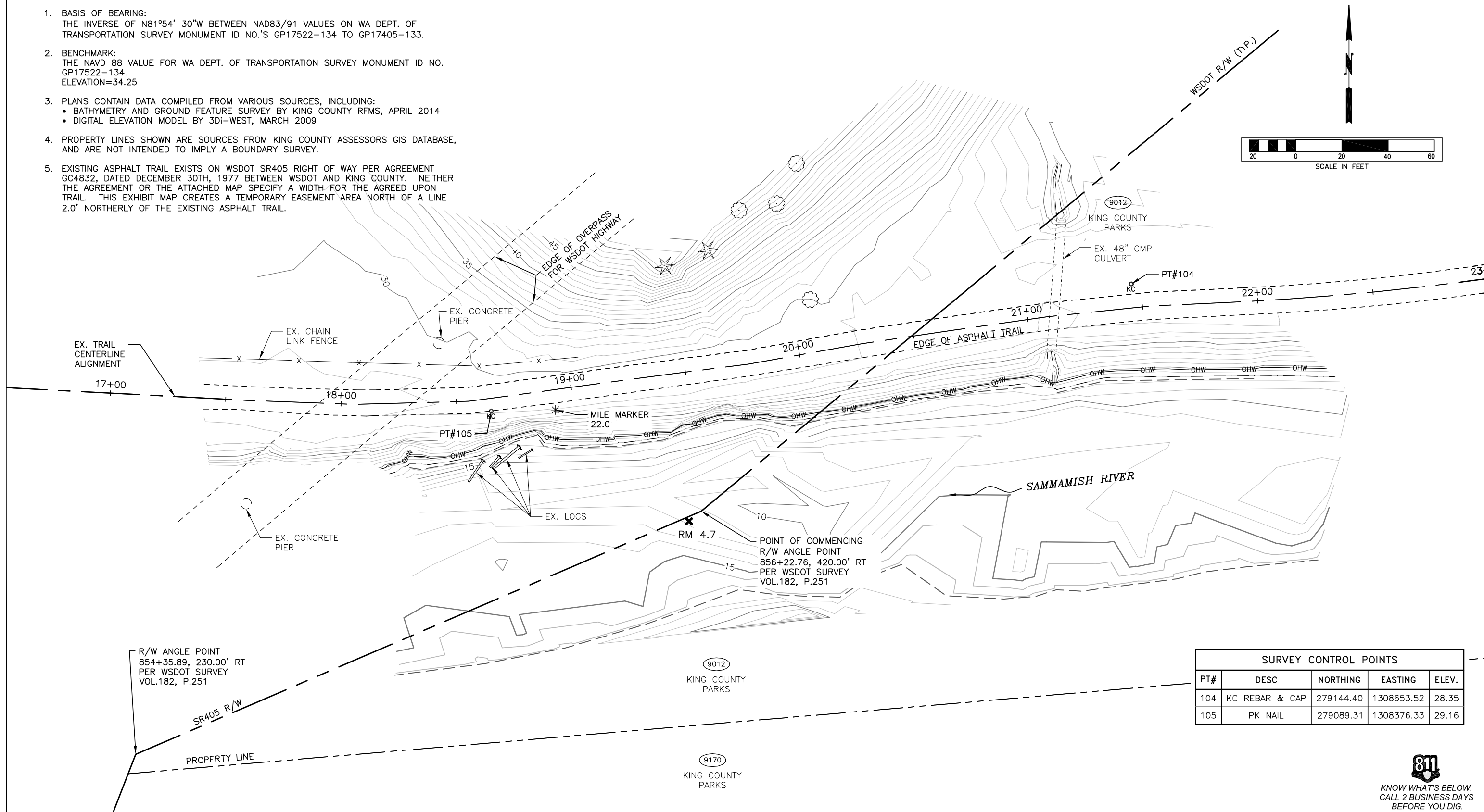
FIELD BOOK: 2014-1	04/2014	60% DESIGN PROGRESS COPY 3/28/2017	APPROVED: JAY SMITH, P.E.	3/2017	FUNDING SOURCE No. _____ PROJECT No. 1124988 CONTRACT No. _____		 <i>Christie True, Director</i>	SHEET 4 OF 23 SHEETS
SURVEYED: PENDERGAST/ZHANG	04/2014		PROJECT MANAGER: DAN HECKENDORF, P.E.	3/2017				
SURVEY BASE MAP: KITAMURA	05/2014		DESIGNED: DAN HECKENDORF, P.E.	3/2017				
CHECKED: PENDERGAST	05/2014							
			REVIEWED: JAY SMITH, P.E.	3/2017				
			CAD DESIGN: KAY KITAMURA	3/2017				

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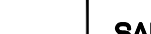

FIELD BOOK: 2014-1		04/2014	60% DESIGN PROGRESS COPY 3/31/2017	NUM.	REVISION	BY	DATE	APPROVED: JAY SMITH, P.E.	3/2017	FUNDING SOURCE No. _____ PROJECT No. 1124988 CONTRACT No. _____	 	SHEETS 5 OF 23 SHEETS
SURVEYED: PENDERGAST/ZHANG		04/2014						PROJECT MANAGER: DAN HECKENDORF, P.E.	3/2017			
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				NUM.	RECORD CHANGES APPROVED	BY	DATE	REVIEWED: JAY SMITH, P.E.	3/2017			
								CAD DESIGN: KAY KITAMURA	3/2017			

1. BASIS OF BEARING:
THE INVERSE OF N81°54' 30"W BETWEEN NAD83/91 VALUES ON WA DEPT. OF TRANSPORTATION SURVEY MONUMENT ID NO.'S GP17522-134 TO GP17405-133.
2. BENCHMARK:
THE NAVD 88 VALUE FOR WA DEPT. OF TRANSPORTATION SURVEY MONUMENT ID NO. GP17522-134.
ELEVATION=34.25
3. PLANS CONTAIN DATA COMPILED FROM VARIOUS SOURCES, INCLUDING:
 - BATHYMETRY AND GROUND FEATURE SURVEY BY KING COUNTY RFMS, APRIL 2014
 - DIGITAL ELEVATION MODEL BY 3Di-WEST, MARCH 2009
4. PROPERTY LINES SHOWN ARE SOURCES FROM KING COUNTY ASSESSORS GIS DATABASE, AND ARE NOT INTENDED TO IMPLY A BOUNDARY SURVEY.
5. EXISTING ASPHALT TRAIL EXISTS ON WSDOT SR405 RIGHT OF WAY PER AGREEMENT GC4832, DATED DECEMBER 30TH, 1977 BETWEEN WSDOT AND KING COUNTY. NEITHER THE AGREEMENT OR THE ATTACHED MAP SPECIFY A WIDTH FOR THE AGREED UPON TRAIL. THIS EXHIBIT MAP CREATES A TEMPORARY EASEMENT AREA NORTH OF A LINE 2.0' NORTHERLY OF THE EXISTING ASPHALT TRAIL.



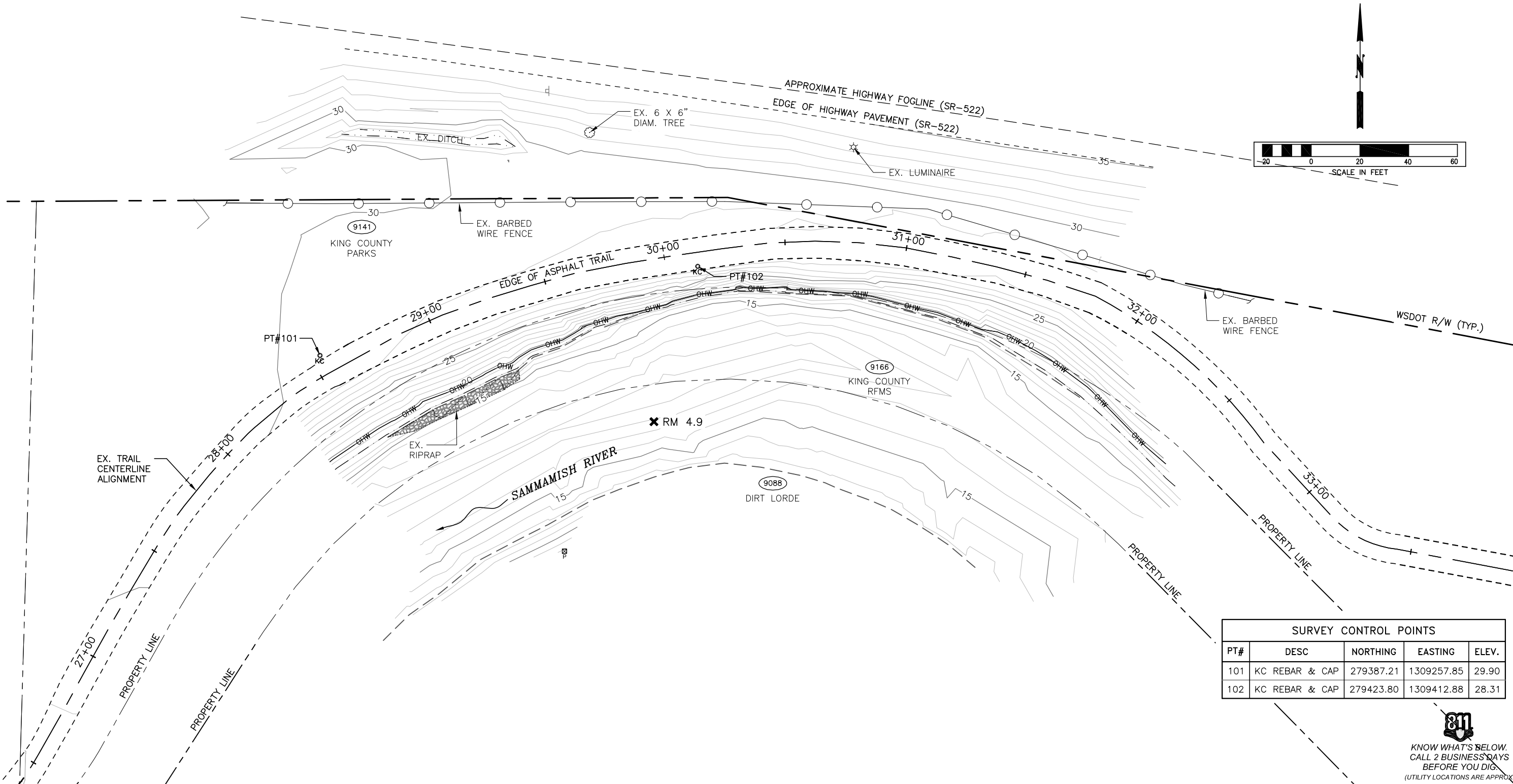
SURVEY CONTROL POINTS				
PT#	DESC	NORTHING	EASTING	ELEV.
104	KC REBAR & CAP	279144.40	1308653.52	28.35
105	PK NAIL	279089.31	1308376.33	29.16

811
KNOW WHAT'S BELOW.
CALL 2 BUSINESS DAYS
BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

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SEC. 9, TWN. 26, R. 5 E, W.M.
NW⁴



SURVEY CONTROL POINTS				
PT#	DESC	NORTHING	EASTING	ELEV.
101	KC REBAR & CAP	279387.21	1309257.85	29.90
102	KC REBAR & CAP	279423.80	1309412.88	28.31


KNOW WHAT'S BELOW.
CALL 2 BUSINESS DAYS
BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK: 2014-1 04/2014
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SURVEY BASE MAP: KITAMURA 05/2014
CHECKED: PENDERGAST 05/2014

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PROJECT No. 1124988
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 **King County**
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

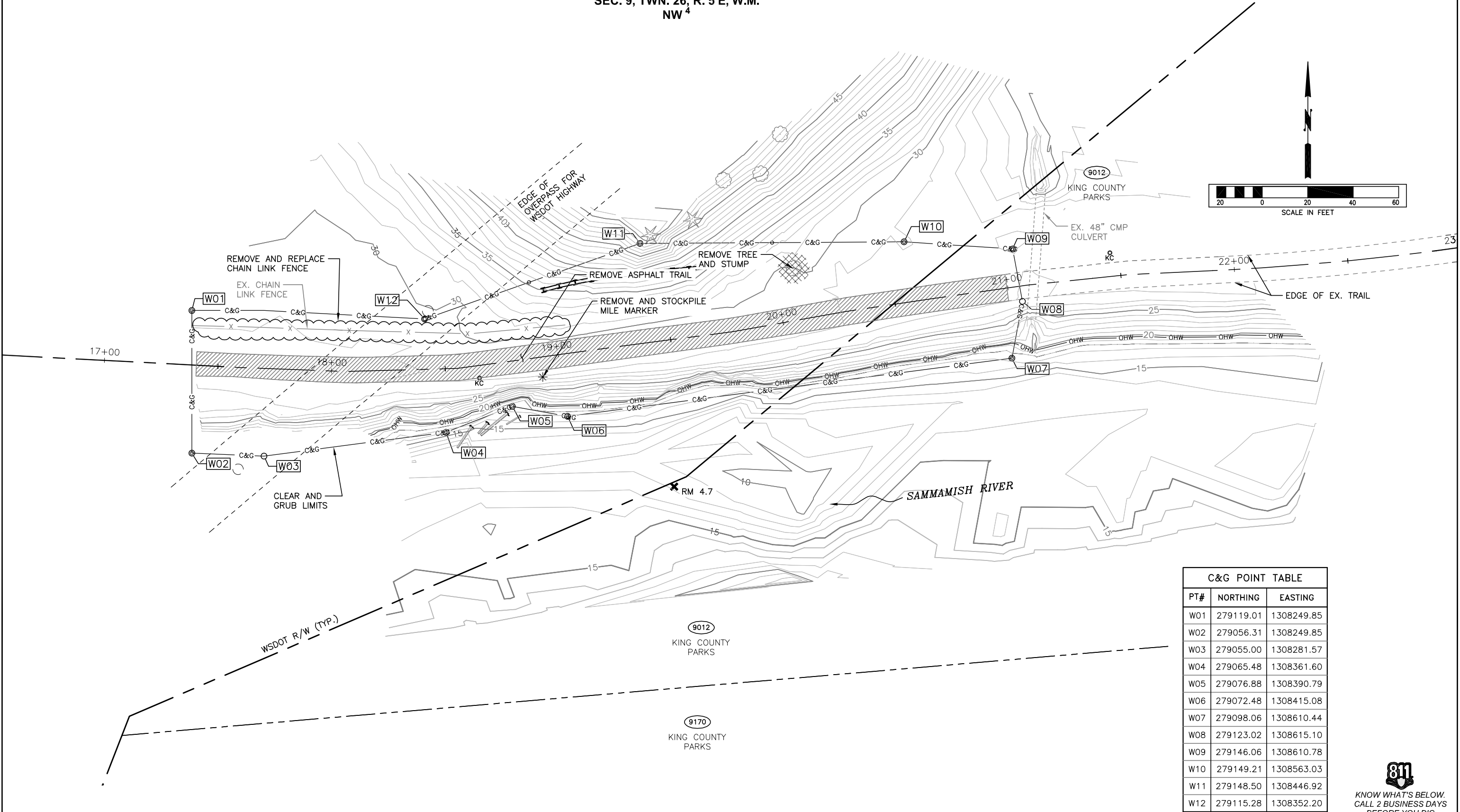
SAMMAMISH RIVER BANK REPAIRS

EXISTING SITE PLAN - EAST

SHEET
7
OF
23
SHEETS



I:\1-RIVERS CAD SUPPORT\Sammamish River Bank Repair\DWG\SAMMAMISH_PREP1.dwg, 3/31/2017 9:44:43 AM, kkitamura

SEC. 9, TWN. 26, R. 5 E, W.M.
NW⁴

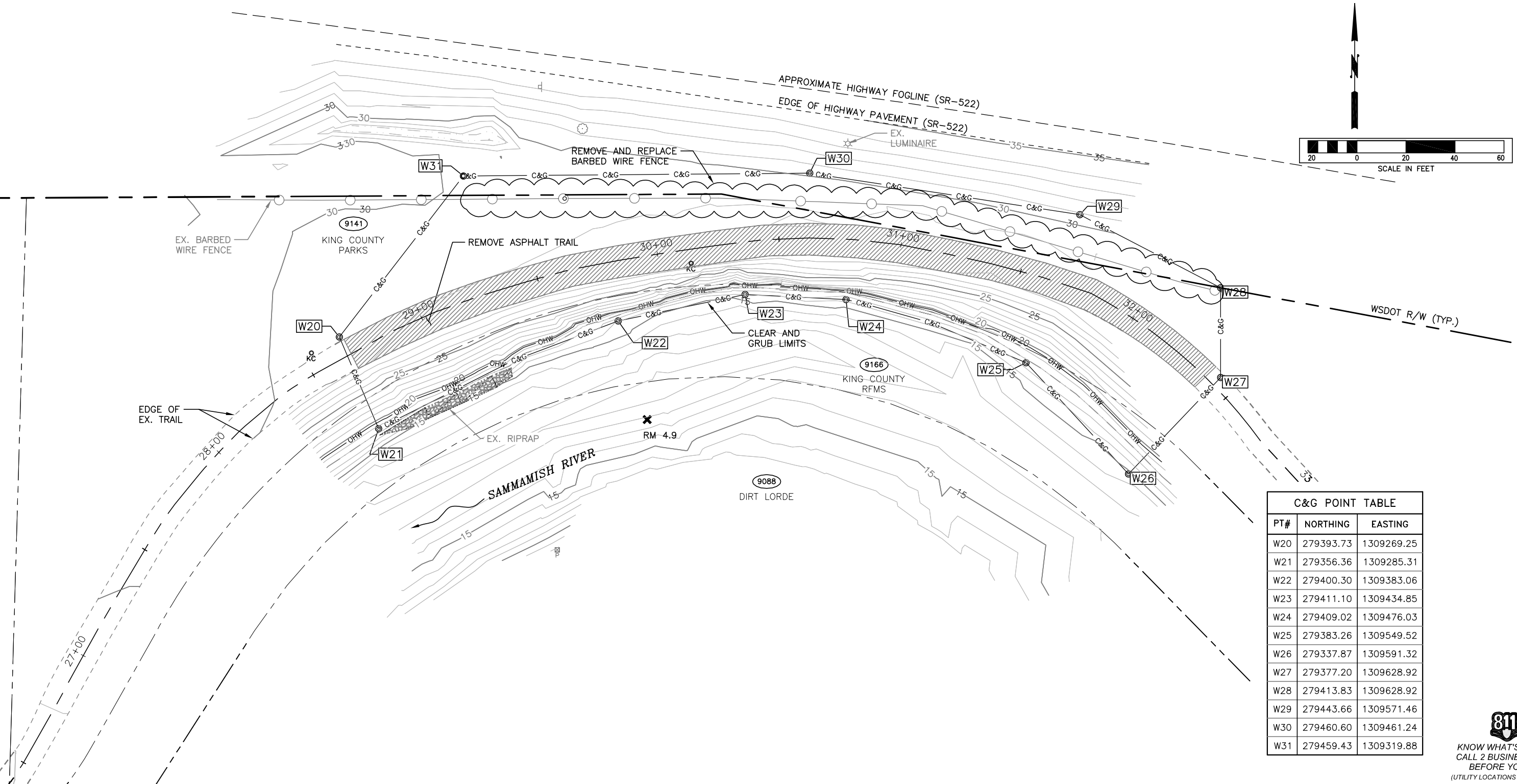


C&G POINT TABLE		
PT#	NORTHING	EASTING
W01	279119.01	1308249.85
W02	279056.31	1308249.85
W03	279055.00	1308281.57
W04	279065.48	1308361.60
W05	279076.88	1308390.79
W06	279072.48	1308415.08
W07	279098.06	1308610.44
W08	279123.02	1308615.10
W09	279146.06	1308610.78
W10	279149.21	1308563.03
W11	279148.50	1308446.92
W12	279115.28	1308352.20


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FIELD BOOK: 2014-1	04/2014	NUM.	REVISION	BY	DATE	APPROVED: JAY SMITH, P.E.	3/2017	FUNDING SOURCE No.			 Christie True, Director	SHEET 8 OF 23 SHEETS
SURVEYED: PENDERGAST/ZHANG	04/2014	60% DESIGN PROGRESS COPY 3/29/2017				PROJECT MANAGER: DAN HECKENDORF, P.E.	3/2017	PROJECT No. 1124988	SAMMAMISH RIVER BANK REPAIRS DEMOLITION PLAN - WEST			
SURVEY BASE MAP: KITAMURA	05/2014					DESIGNED: DAN HECKENDORF, P.E.	3/2017	CONTRACT No.				
CHECKED: PENDERGAST	05/2014	NUM.	RECORD CHANGES APPROVED	BY	DATE	REVIEWED: JAY SMITH, P.E.	3/2017	CAD DESIGN: KAY KITAMURA				

SEC. 9, TWN. 26, R. 5 E, W.M.
NW⁴



C&G POINT TABLE		
PT#	NORTHING	EASTING
W20	279393.73	1309269.25
W21	279356.36	1309285.31
W22	279400.30	1309383.06
W23	279411.10	1309434.85
W24	279409.02	1309476.03
W25	279383.26	1309549.52
W26	279337.87	1309591.32
W27	279377.20	1309628.92
W28	279413.83	1309628.92
W29	279443.66	1309571.46
W30	279460.60	1309461.24
W31	279459.43	1309319.88

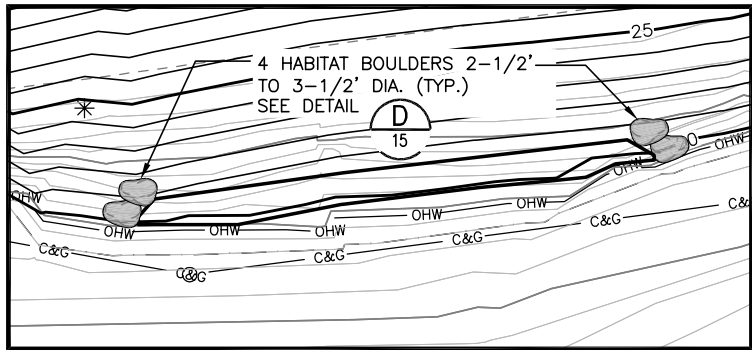
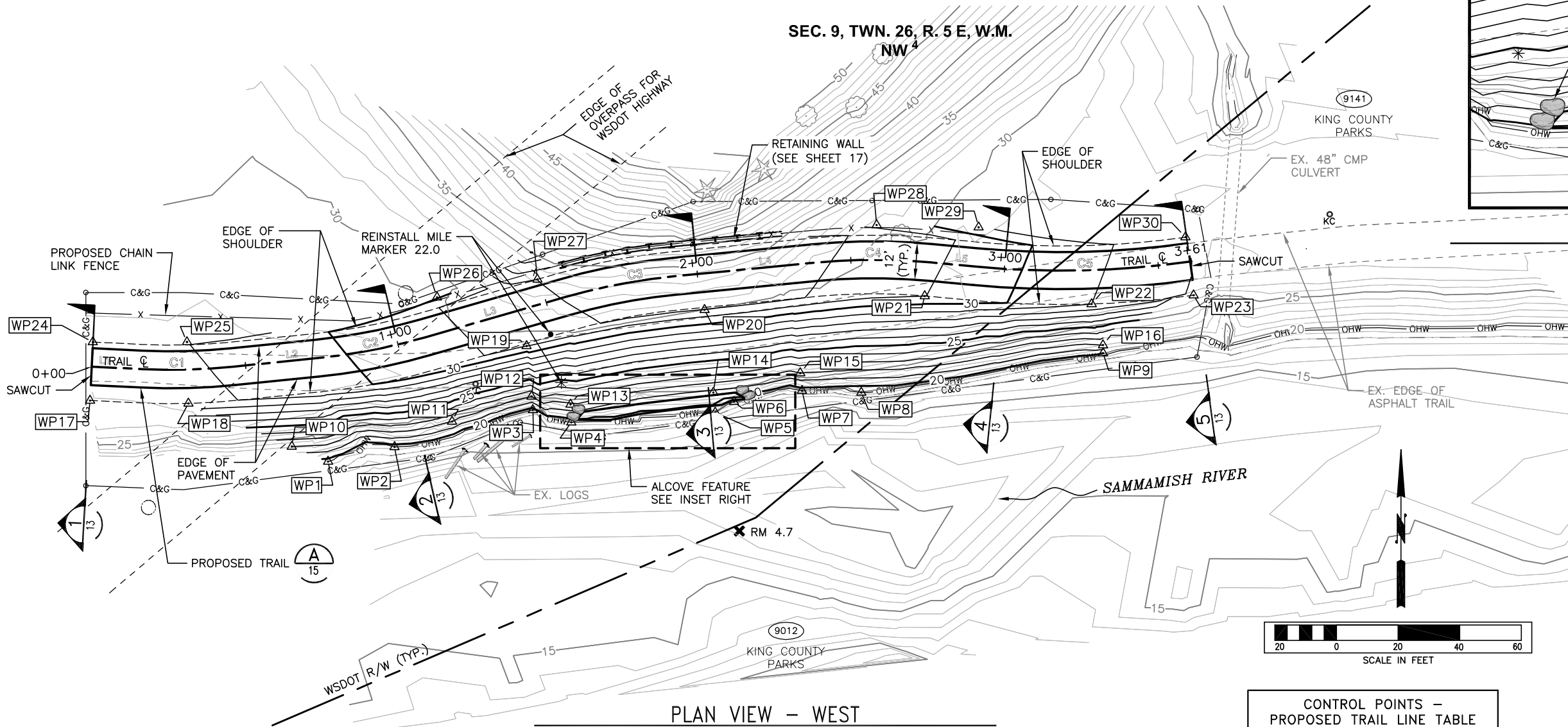
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FIELD BOOK: 2014-1 SURVEYED: PENDERGAST/ZHANG SURVEY BASE MAP: KITAMURA CHECKED: PENDERGAST	04/2014					APPROVED: JAY SMITH, P.E.	3/2017	FUNDING SOURCE No. PROJECT No. 1124988 CONTRACT No.			SHEET 9 OF 23 SHEETS
	04/2014					PROJECT MANAGER: DAN HECKENDORF, P.E.	3/2017				
	05/2014					DESIGNED: DAN HECKENDORF, P.E.	3/2017				
	05/2014					REVIEWED: JAY SMITH, P.E.	3/2017				
						CAD DESIGN: KAY KITAMURA	3/2017				DEMOLITION PLAN - EAST

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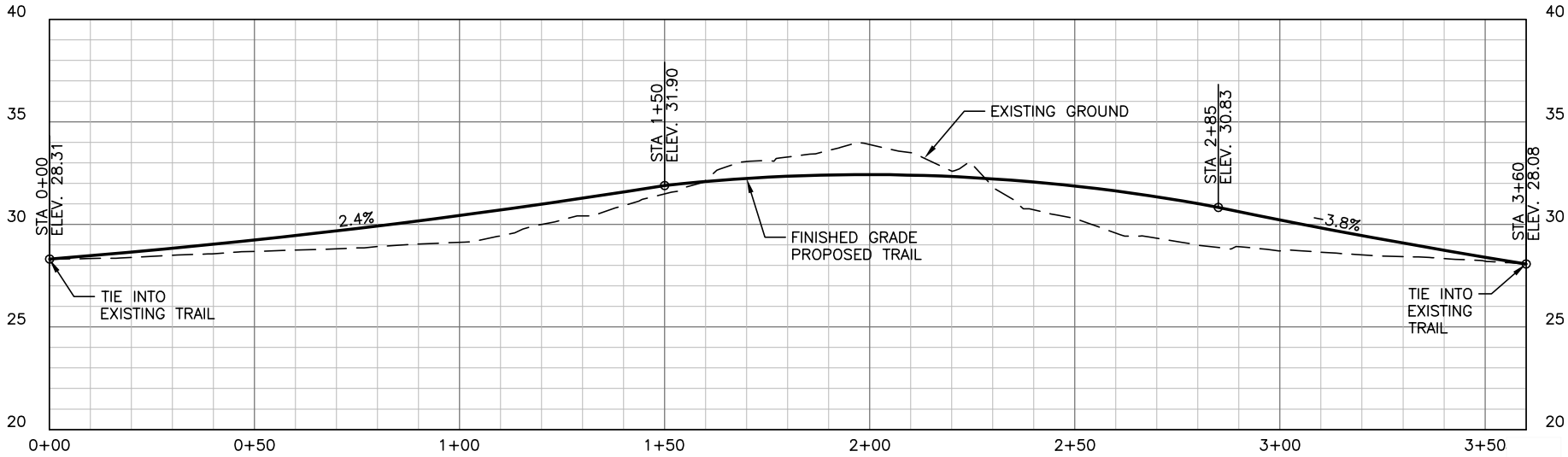
ALCOVE FEATURE DETAIL

SCALE: NTS

GROUND STAKING TABLE				
PNT#	NORTHING	EASTING	ELEVATION	DESC
WP1	279064.13	1308328.46	19.60	OHWM
WP2	279068.89	1308350.03	19.60	OHWM
WP3	279080.87	1308394.91	19.60	OHWM
WP4	279076.89	1308407.38	19.60	OHWM
WP5	279080.08	1308454.11	19.60	OHWM
WP6	279083.53	1308460.20	19.60	OHWM
WP7	279087.10	1308482.26	19.60	OHWM
WP8	279086.51	1308501.49	19.60	OHWM
WP9	279099.31	1308579.98	20.00	
WP10	279069.03	1308316.70	22.00	
WP11	279077.12	1308368.68	22.00	
WP12	279085.25	1308394.49	22.00	
WP13	279082.66	1308407.13	22.00	
WP14	279086.55	1308453.48	22.00	
WP15	279092.85	1308481.71	22.00	
WP16	279101.94	1308579.93	22.00	
WP17	279083.95	1308251.21	28.15	
WP18	279082.99	1308283.14	28.85	
WP19	279101.67	1308392.88	31.00	
WP20	279113.41	1308450.63	30.00	
WP21	279117.84	1308522.08	31.00	
WP22	279115.27	1308576.25	29.00	
WP23	279118.09	1308609.33	27.91	
WP24	279102.93	1308252.12	28.43	
WP25	279102.95	1308282.68	28.66	
WP26	279117.46	1308363.81	29.86	
WP27	279123.25	1308396.37	32.00	
WP28	279140.89	1308506.47	30.70	
WP29	279140.15	1308539.57	29.13	
WP30	279136.99	1308606.69	28.17	

CONTROL POINTS - PROPOSED TRAIL LINE TABLE		
LINE#	LENGTH	BEARING
L1	16.29	S87°15'02"E
L2	27.27	N84°12'10"E
L3	46.89	N73°57'02"E
L4	45.36	N84°26'59"E
L5	14.25	S84°38'51"E

CONTROL POINTS - PROPOSED TRAIL CURVE TABLE				
CURVE#	LENGTH	RADIUS	DELTA	TANGENT
C1	29.83	200.00	Δ=8°32'48"	8.55
C2	35.79	200.00	Δ=10°15'08"	10.25
C3	36.65	200.00	Δ=10°29'57"	10.50
C4	38.06	200.00	Δ=10°54'11"	10.90
C5	70.02	299.91	Δ=13°22'35"	13.38



PROFILE VIEW - WEST

SCALE: 1"=20' HORIZ.; 1"=4' VERT.

FIELD BOOK: 2014-1 04/2014
SURVEYED:PENDERGAST/ZHANG 04/2014
SURVEY BASE MAP: KITAMURA 05/2014
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REVIEWED: JAY SMITH, P.E. 3/2017
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PROJECT No. 1124988
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River and Floodplain Management Section
Christie True, Director

SAMMAMISH RIVER BANK REPAIRS

PROPOSED SITE PLAN AND TRAIL PROFILE - WEST

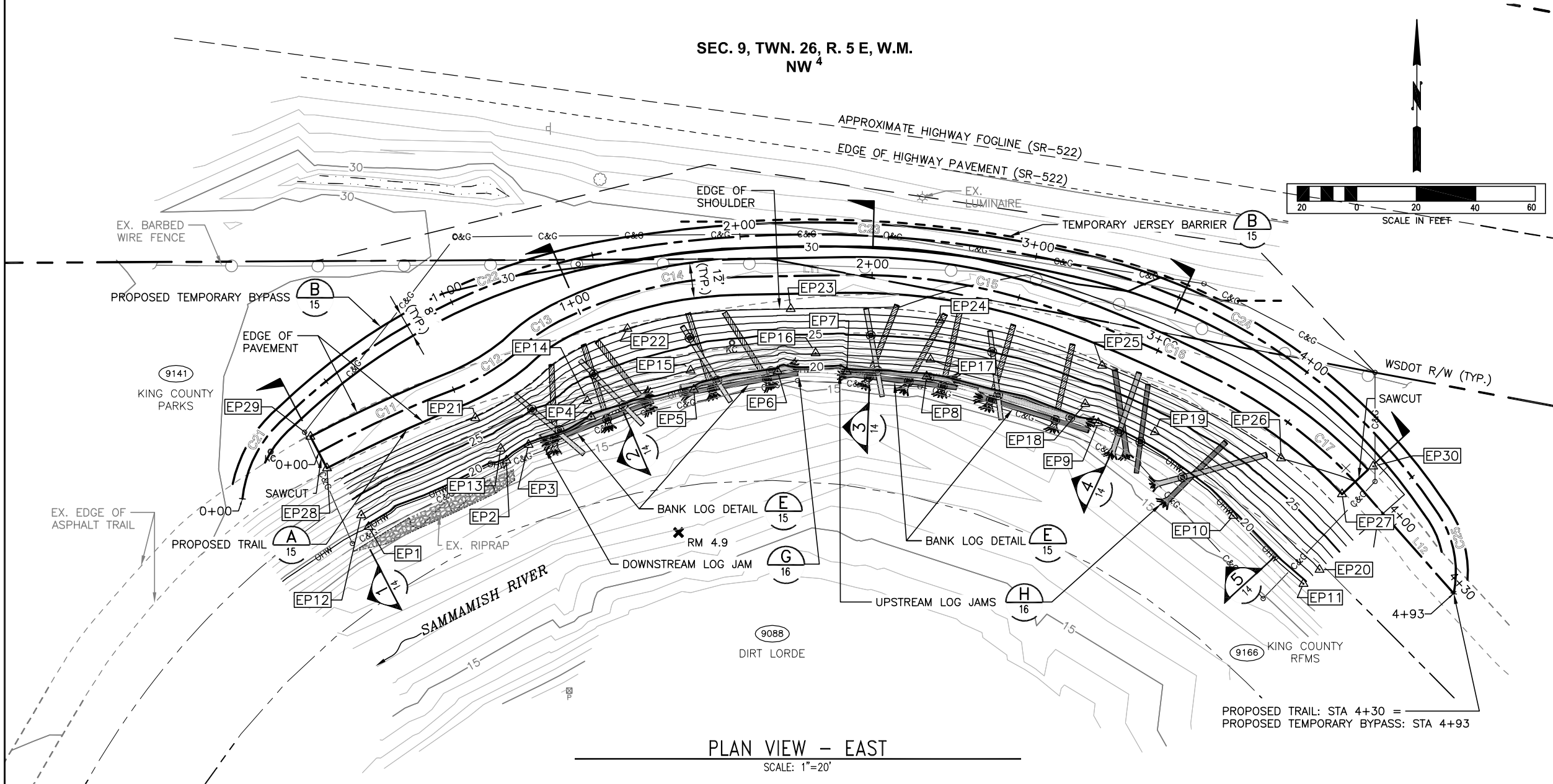


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SEC. 9, TWN. 26, R. 5 E, W.M.
NW⁴



PLAN VIEW - EAST
SCALE: 1"=20'

CONTROL POINTS - PROPOSED TRAIL LINE TABLE		
LINE#	LENGTH	BEARING
L11	35.82	N88°54'37"E
L12	50.02	S41°29'57"E

CONTROL POINTS - PROPOSED TRAIL CURVE TABLE				
CURVE#	LENGTH	RADIUS	DELTA	TANGENT
C11	52.54	355.50	Δ=8°28'02"	8.47
C12	21.31	80.00	Δ=15°15'50"	15.26
C13	22.47	60.00	Δ=21°27'18"	21.45
C14	58.75	140.00	Δ=24°02'39"	24.04
C15	73.03	200.00	Δ=20°55'21"	20.92
C16	59.32	460.00	Δ=7°23'20"	7.39
C17	57.02	160.00	Δ=20°25'12"	20.42

CONTROL POINTS - PROPOSED TRAIL CURVE TABLE				
CURVE#	LENGTH	RADIUS	DELTA	TANGENT
C21	32.61	41.63	Δ=44°52'36"	44.88
C22	118.40	207.31	Δ=32°43'21"	32.72
C23	162.86	390.04	Δ=23°55'26"	23.92
C24	148.51	194.28	Δ=43°47'58"	43.80
C25	30.76	35.50	Δ=49°38'28"	49.64

GROUND STAKING TABLE				
PNT#	NORTHING	EASTING	ELEVATION	DESC
EP1	279361.98	1309290.73	19.60	OHWM
EP2	279384.27	1309337.07	19.60	OHWM
EP3	279389.52	1309344.49	19.60	OHWM
EP4	279399.00	1309365.55	19.60	OHWM
EP5	279408.08	1309400.02	19.60	OHWM
EP6	279414.28	1309428.16	19.60	OHWM
EP7	279414.13	1309451.43	19.60	OHWM
EP8	279412.55	1309478.24	19.60	OHWM
EP9	279396.90	1309535.93	19.60	OHWM
EP10	279365.69	1309581.26	19.60	OHWM
EP11	279342.80	1309604.85	19.60	OHWM
EP12	279365.86	1309288.29	22.00	
EP13	279388.26	1309335.13	22.00	
EP14	279404.26	1309364.22	22.00	
EP15	279414.52	1309398.91	22.00	
EP16	279420.31	1309440.95	22.00	
EP17	279418.18	1309479.56	22.00	
EP18	279403.30	1309531.52	22.00	
EP19	279393.79	1309554.92	22.00	
EP20	279347.57	1309610.25	22.00	
EP21	279398.56	1309326.61	29.00	
EP22	279428.51	1309377.74	29.00	
EP23	279435.18	1309432.58	29.00	
EP24	279431.46	1309482.68	28.00	
EP25	279416.13	1309537.20	28.00	
EP26	279384.99	1309597.32	28.00	
EP27	279372.96	1309617.82	28.04	
EP28	279381.67	1309276.79	29.59	
EP29	279392.29	1309271.21	29.75	
EP30	279382.28	1309628.30	28.20	

FIELD BOOK: 2014-1 04/2014
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SURVEY BASE MAP: KITAMURA 05/2014
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REVIEWED: JAY SMITH, P.E. 3/2017
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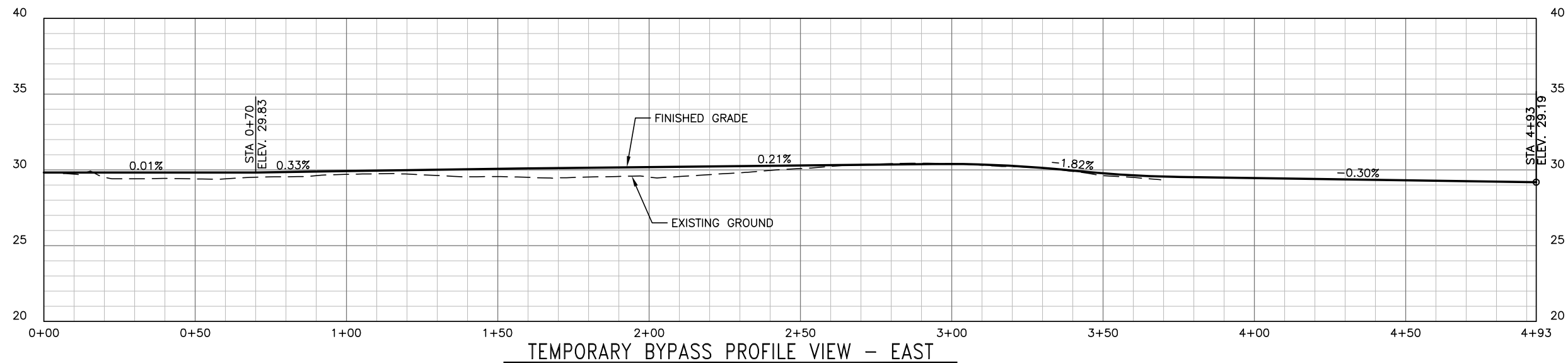
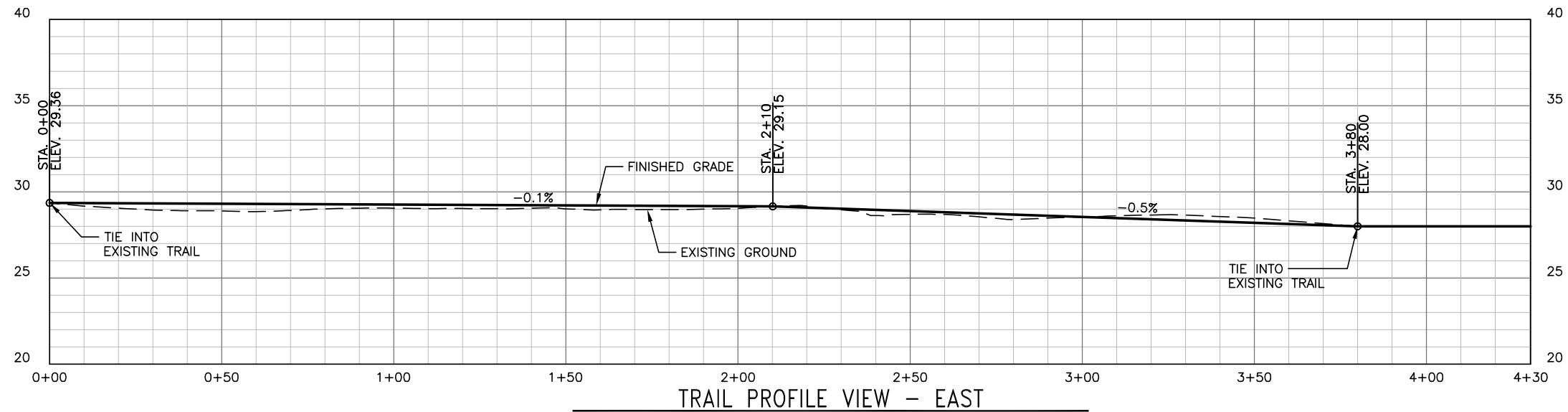
King County
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Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

SAMMAMISH RIVER BANK REPAIRS
PROPOSED SITE PLAN - EAST



811
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11
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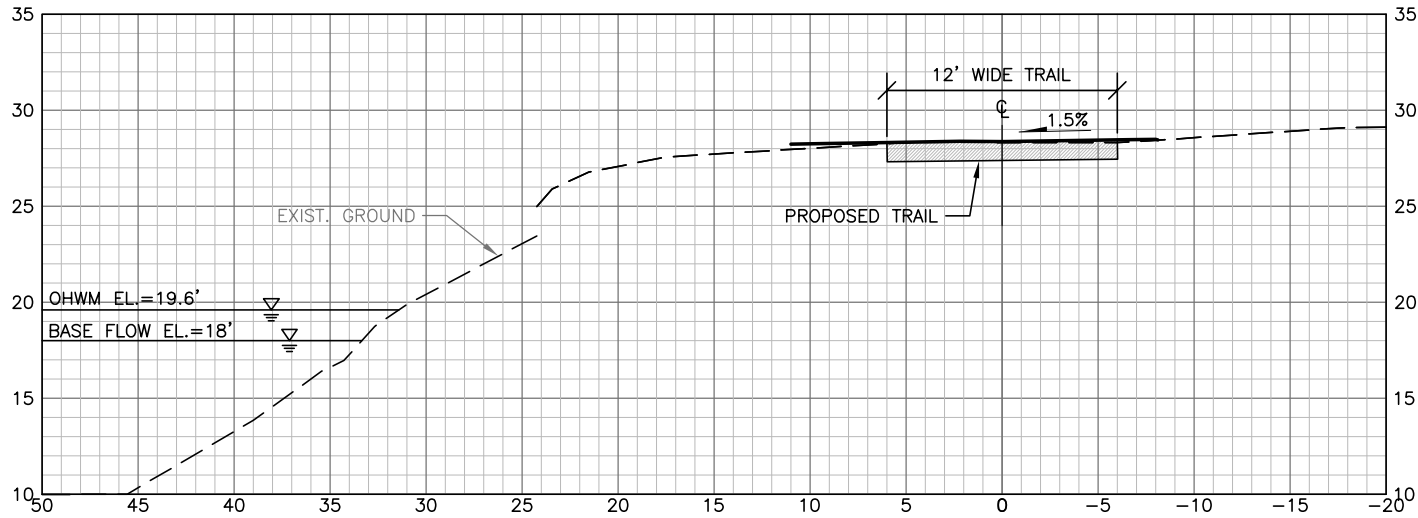
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	04/2014					PROJECT MANAGER: DAN HECKENDORF, P.E.	3/2017					
	05/2014					DESIGNED: DAN HECKENDORF, P.E.	3/2017					
	05/2014					REVIEWED: JAY SMITH, P.E.	3/2017					
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		NUM.	RECORD CHANGES APPROVED	BY	DATE							

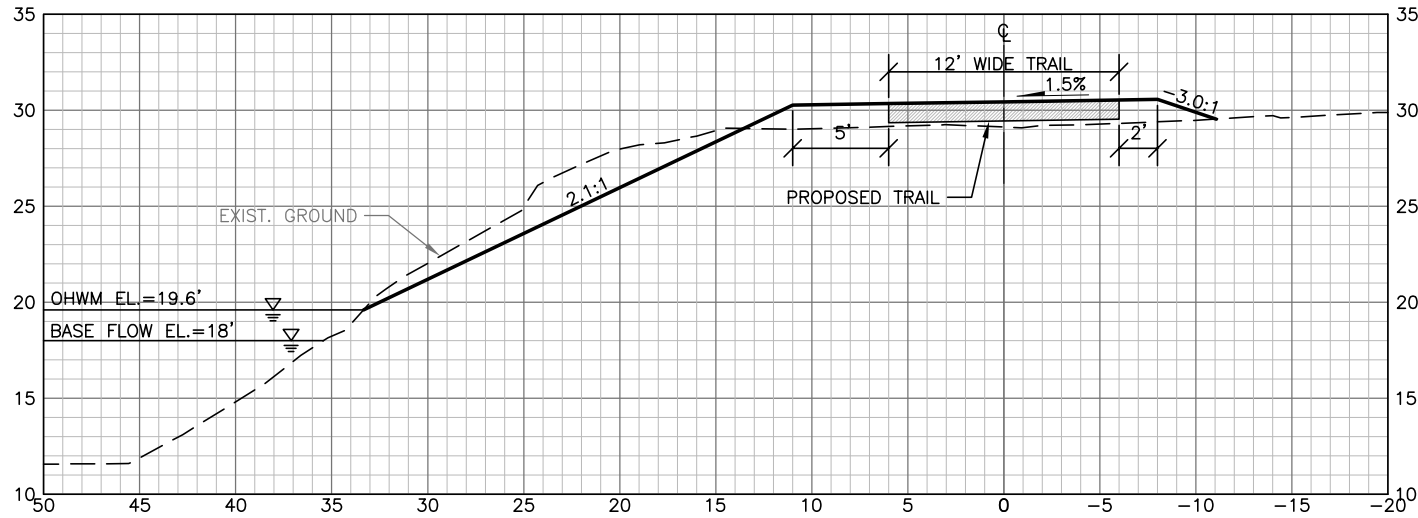
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TYPICAL CROSS SECTION STA 0+00

SCALE: 1"=5' HORIZ.; 1"=5' VERT.

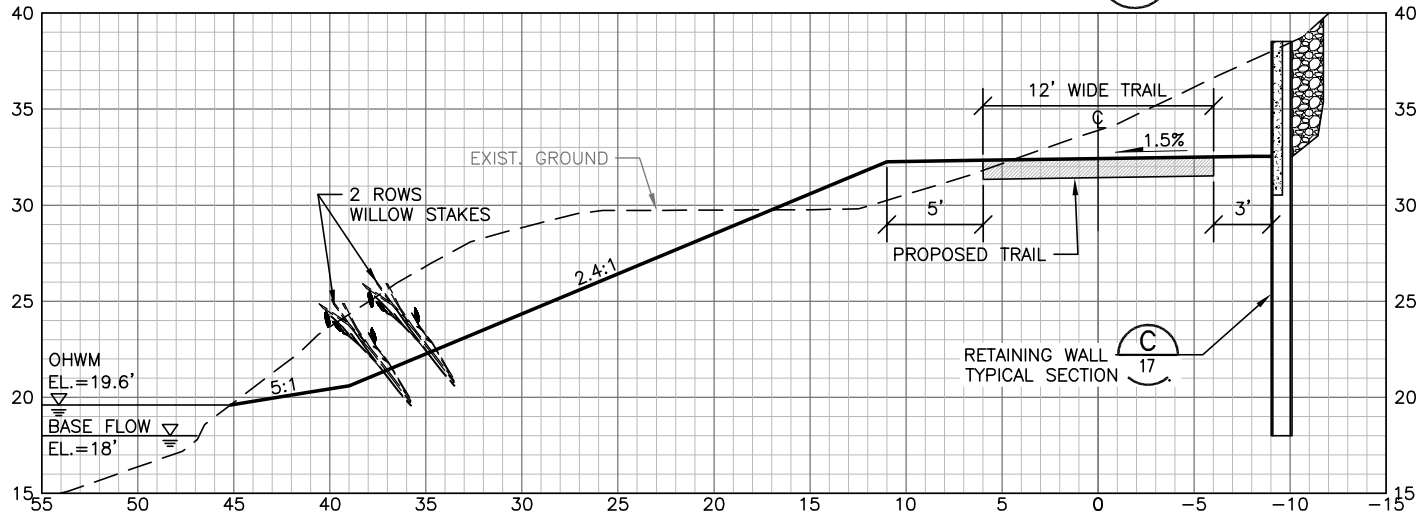
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TYPICAL CROSS SECTION STA 1+00

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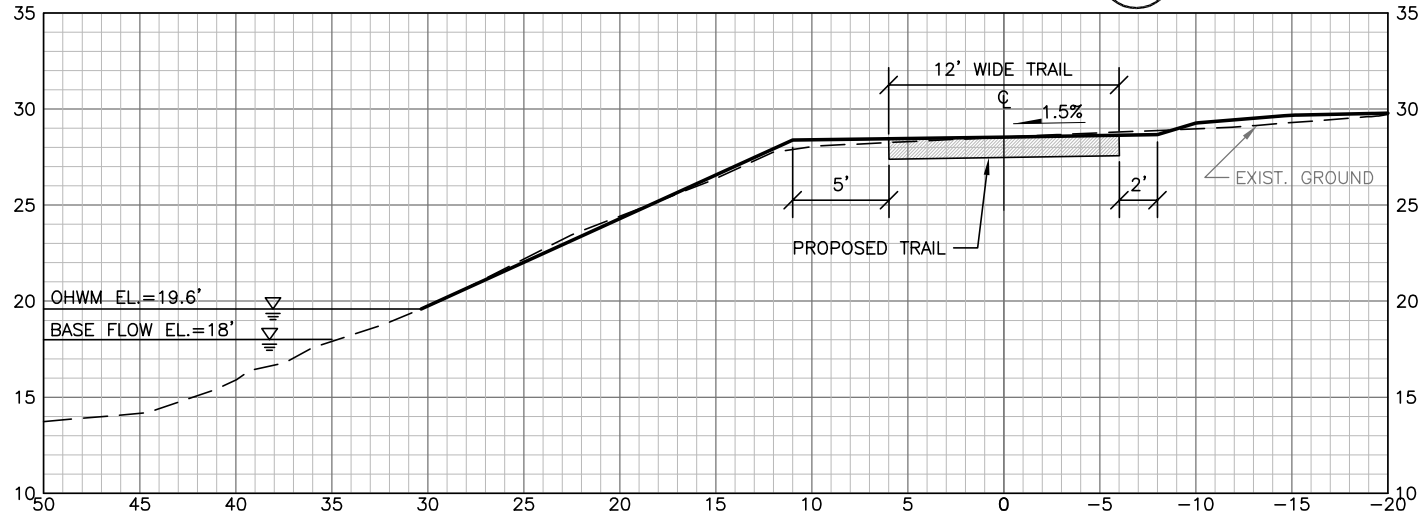
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TYPICAL CROSS SECTION STA 2+00

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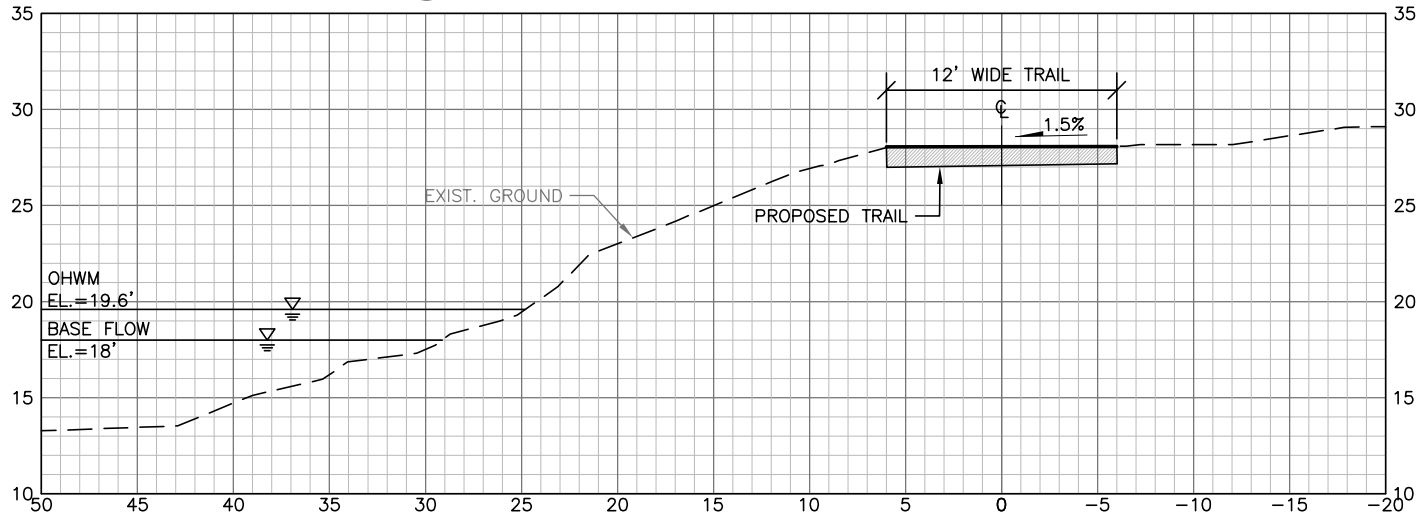
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TYPICAL CROSS SECTION STA 3+00

SCALE: 1"=5' HORIZ.; 1"=5' VERT.

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TYPICAL CROSS SECTION STA 3+60

SCALE: 1"=5' HORIZ.; 1"=5' VERT.

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Department of Natural Resources and Parks
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River and Floodplain Management Section
Christie True, Director

SAMMAMISH RIVER BANK REPAIRS

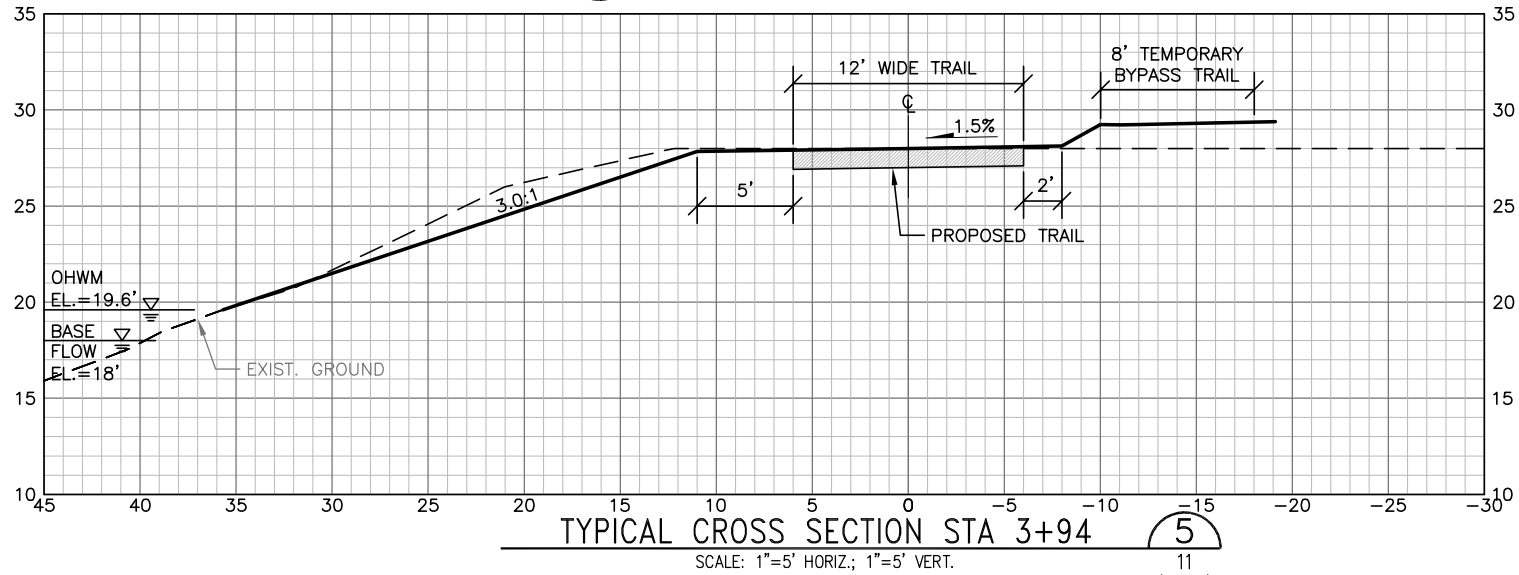
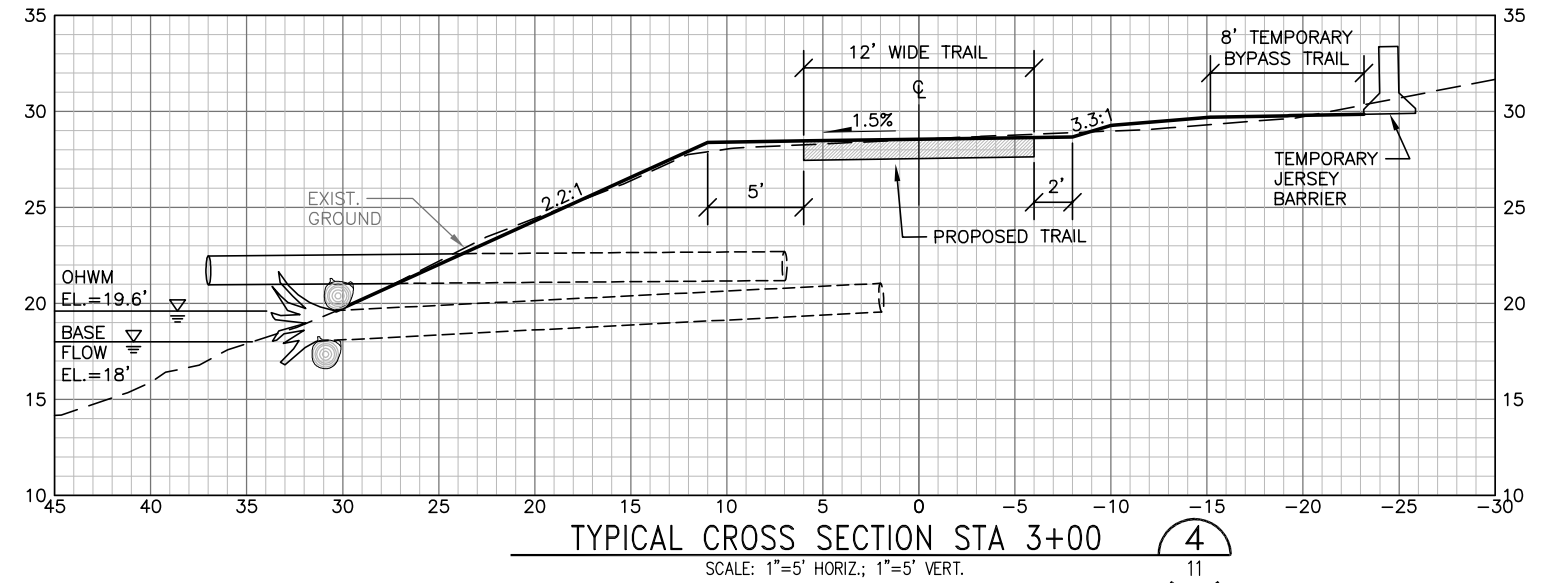
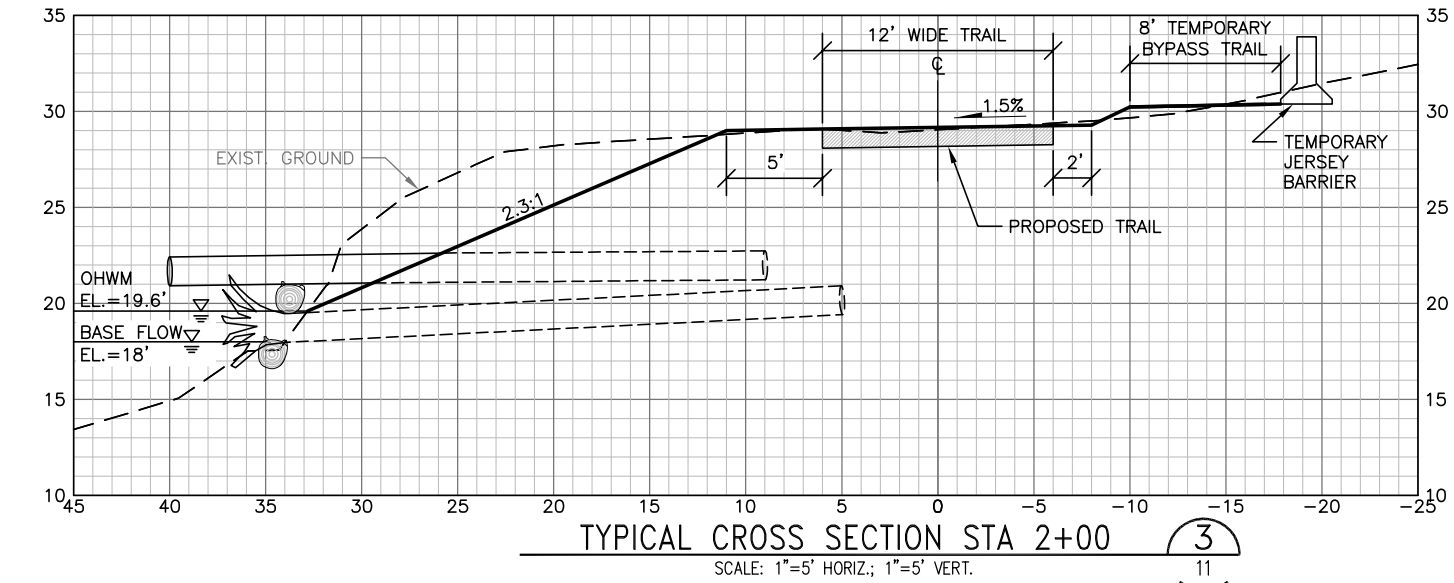
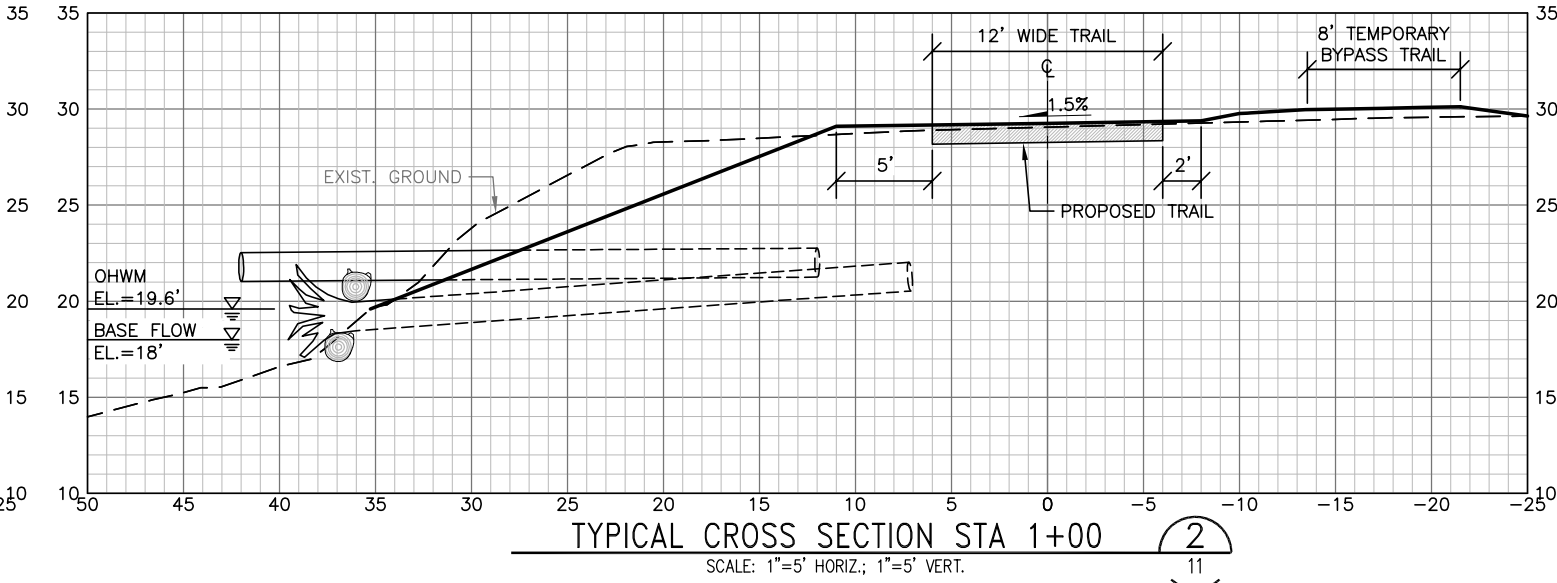
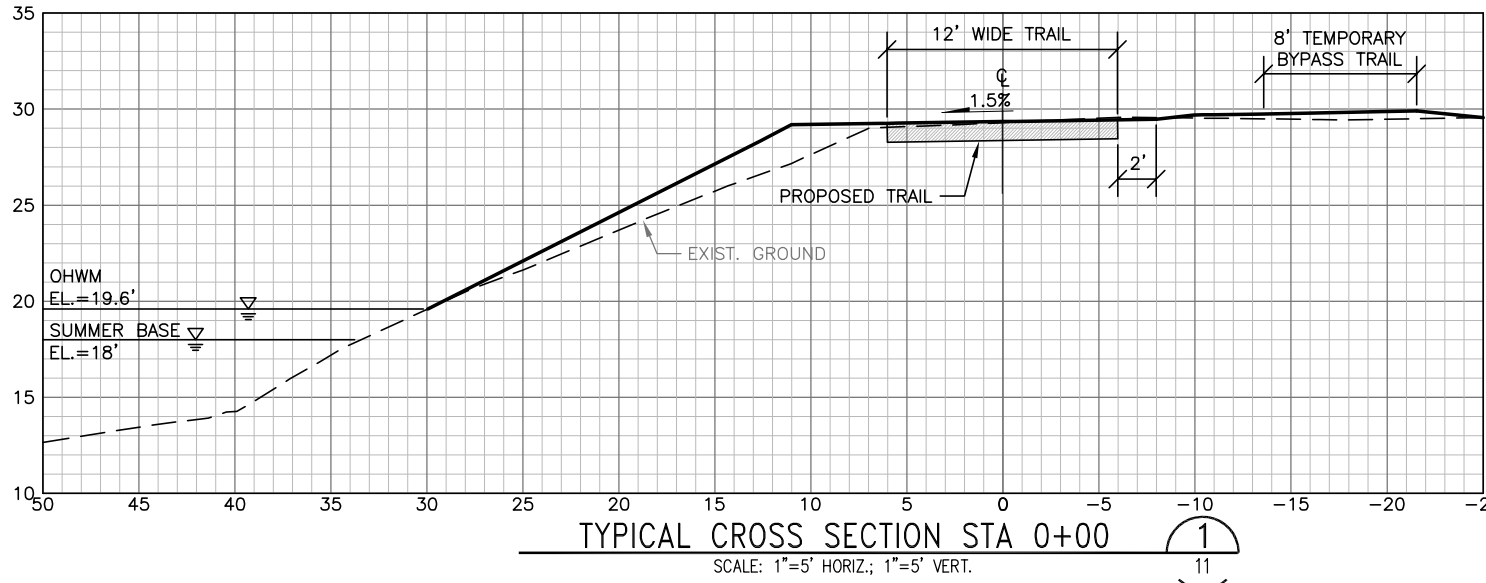
TYPICAL BANK SECTIONS - WEST



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REVIEWED: JAY SMITH, P.E. 3/2017
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PROJECT No. 1124988
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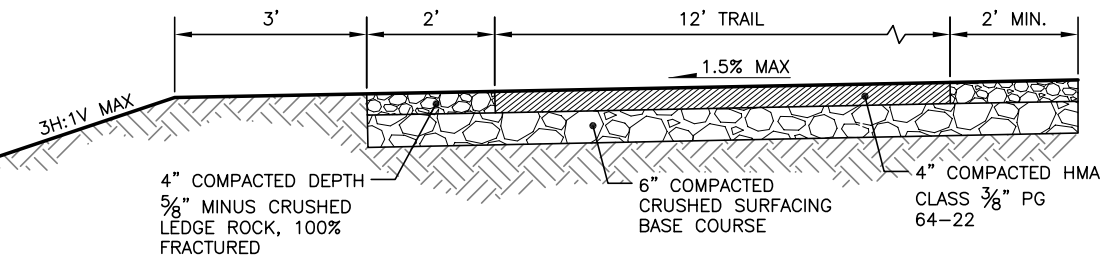


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River and Floodplain Management Section
Christie True, Director

SAMMAMISH RIVER BANK REPAIRS
TYPICAL BANK SECTIONS - EAST

SHEET
14
OF
23
SHEETS

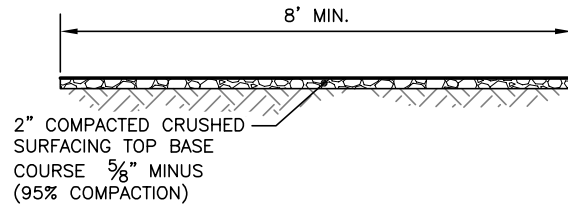
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TYPICAL BIKE PATH SECTION

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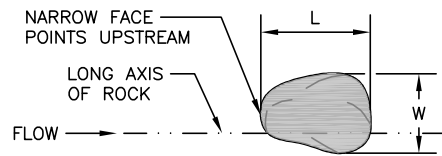
TYPICAL TEMPORARY BIKE PATH SECTION

NTS

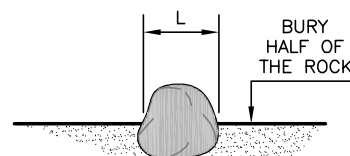
B
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GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO THE PLACEMENT OF LOGS.
2. LOG PLACEMENT AND ORIENTATION SHOWN IS APPROXIMATE. LOG PLACEMENT SHALL BE FLAGGED BY THE ENGINEER.
3. CHAIN LOG TO EARTH ANCHOR 60" MIN. INTO THE GROUND, USING GRADE 40 STEEL CHAIN MAKING ONE COMPLETE WRAP AROUND LOG, AND SECURE WITH SHACKLES. SCORE RECESS IN LOG TO EMBED CHAIN.



PLAN VIEW



PROFILE VIEW

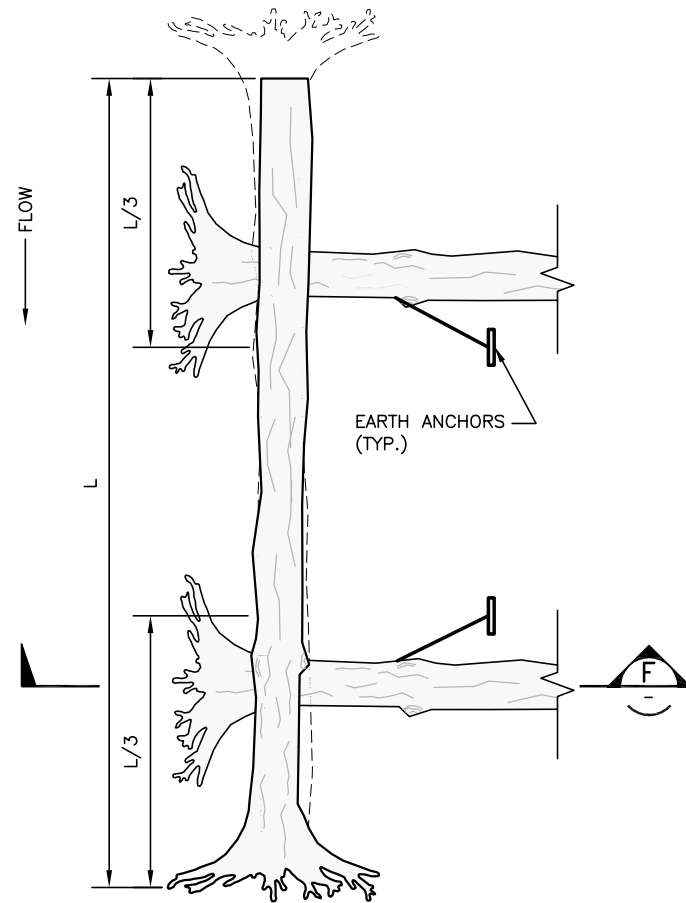
NOTES:

1. PLACEMENT OF ALL BOULDERS SHALL BE FLAGGED BY ENGINEER.
2. HABITAT BOULDERS SHALL HAVE LENGTH > WIDTH.
3. PLACEMENT OF HABITAT BOULDERS SHALL AVOID DEFLECTING FLOW TOWARD THE BANK.

HABITAT BOULDER DETAIL

NTS

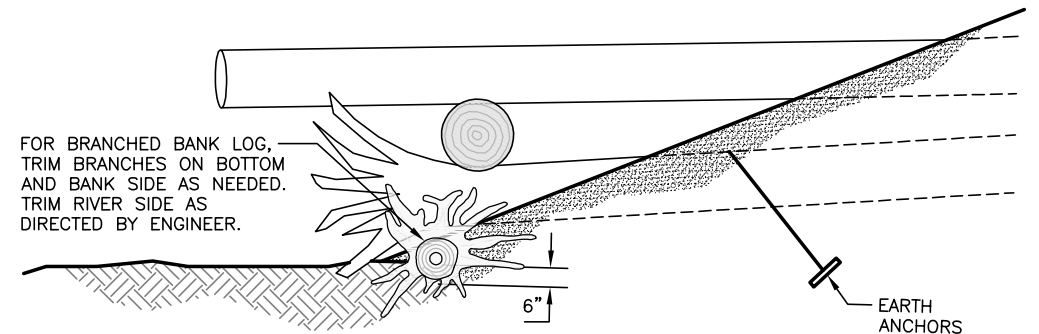
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BANK LOG DETAIL

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BANK LOG SECTION

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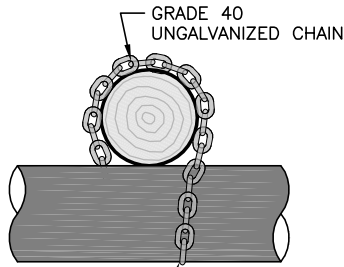
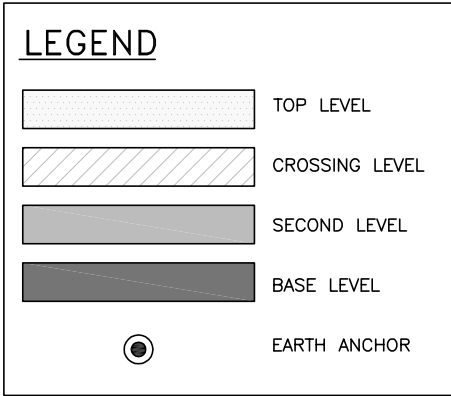


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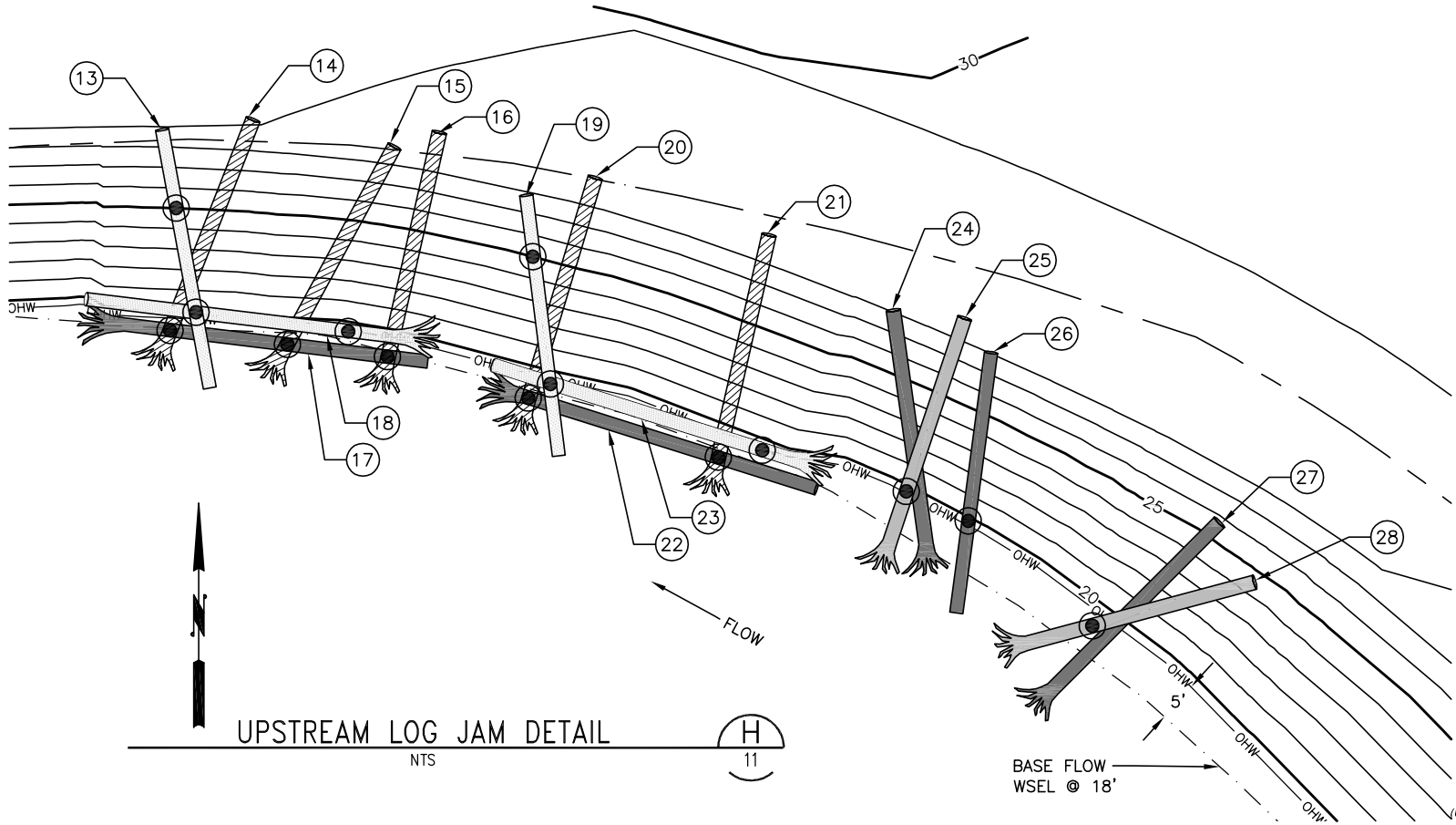
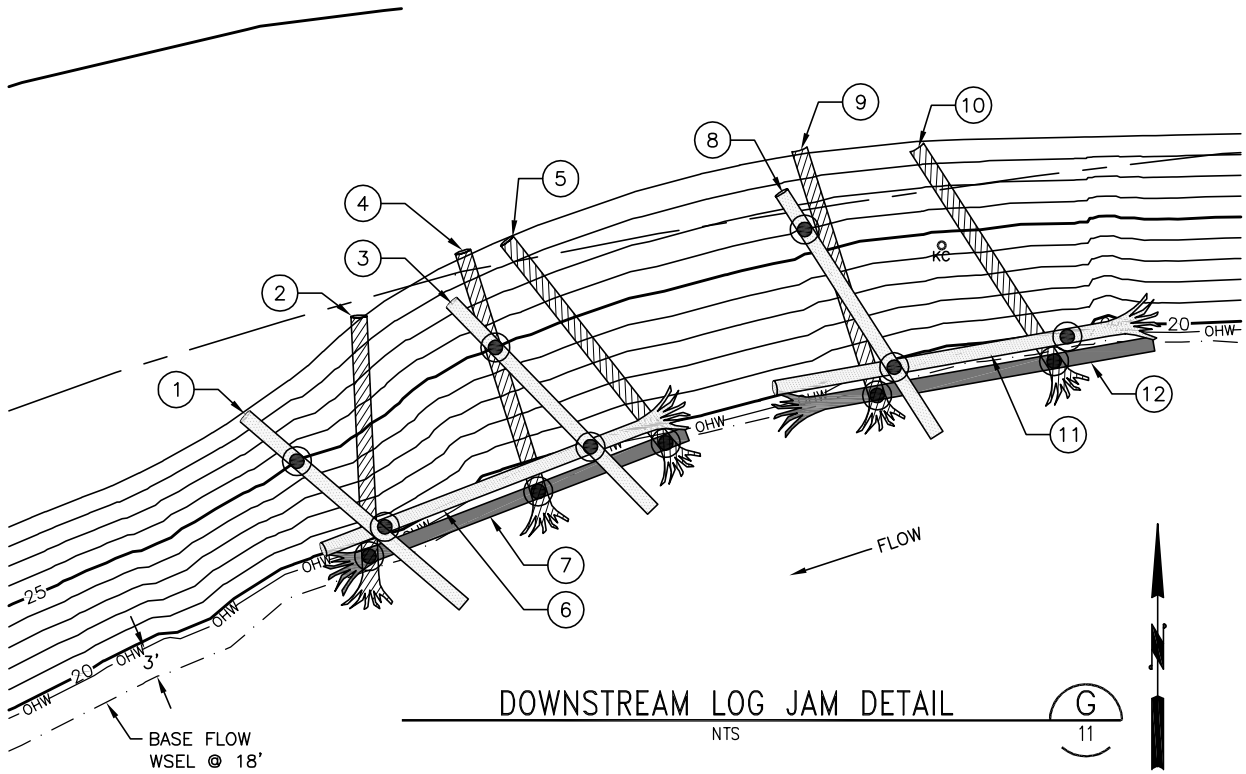
FIELD BOOK: 2014-1 SURVEYED: PENDERGAST/ZHANG SURVEY BASE MAP: KITAMURA CHECKED: PENDERGAST	04/2014	NUM.	REVISION	BY	DATE	APPROVED: JAY SMITH, P.E.	3/2017	FUNDING SOURCE No. PROJECT No. 1124988 CONTRACT No.			SAMMAMISH RIVER BANK REPAIRS CIVIL DETAILS (SHEET 1 OF 2)	SHEET 15 OF 23 SHEETS
	04/2014					PROJECT MANAGER: DAN HECKENDORF, P.E.	3/2017					
	05/2014					DESIGNED: DAN HECKENDORF, P.E.	3/2017					
	05/2014					REVIEWED: JAY SMITH, P.E.	3/2017					
		NUM.	RECORD CHANGES APPROVED	BY	DATE	CAD DESIGN: KAY KITAMURA	3/2017					

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LWM Table								
LWM ID (#)	DIAMETER (IN)	APPROXIMATE OVERALL LENGTH (FT.)	ANCHORING		ROOTWAD	ANCHOR PULLOUT	CHAIN	REMARKS
			METHOD	NUM.				
1	18	30	BURIAL + EARTH ANCHOR + CHAIN	2	NO	3,500 LBS	5/16"	CHAIN W/ #6 EARTH ANCHOR
2	18	30	BURIAL + EARTH ANCHOR	1	YES	3,500 LBS		
3	18	30	BURIAL + EARTH ANCHOR + CHAIN	2	NO	3,500 LBS	5/16"	CHAIN W/ #6 EARTH ANCHOR
4	18	30	BURIAL + EARTH ANCHOR	1	YES	3,500 LBS		
5	18	30	BURIAL + EARTH ANCHOR	1	YES	3,500 LBS		
6	18	40	EARTH ANCHOR	2	YES	3,500 LBS		
7	18	40	CHAIN	3	YES			CHAIN W/ #2, #4 AND #5 EARTH ANCHOR
8	18	30	BURIAL + EARTH ANCHOR	1	YES	3,500 LBS		
9	18	30	BURIAL + EARTH ANCHOR + CHAIN	2	NO	3,500 LBS	5/16"	CHAIN W/ #11 EARTH ANCHOR
10	18	30	BURIAL + EARTH ANCHOR	1	YES	3,500 LBS		
11	18	40	EARTH ANCHOR	2	YES	3,500 LBS		
12	18	40	CHAIN	2	YES		5/16"	CHAIN W/ #8 AND #10 EARTH ANCHOR
13	18	30	BURIAL + EARTH ANCHOR + CHAIN	2	NO	3,500 LBS	5/16"	CHAIN W/ #18 EARTH ANCHOR
14	18	30	BURIAL + EARTH ANCHOR	1	YES	3,500 LBS		
15	18	30	BURIAL + EARTH ANCHOR	1	YES	3,500 LBS		
16	18	30	BURIAL + EARTH ANCHOR	1	YES	3,500 LBS		
17	18	40	CHAIN	3	YES			CHAIN W/ #14, #15 AND #16 EARTH ANCHOR
18	18	40	EARTH ANCHOR	2	YES	3,500 LBS		
19	18	30	BURIAL + EARTH ANCHOR + CHAIN	2	NO	3,500 LBS	5/16"	CHAIN W/ #23 EARTH ANCHOR
20	18	30	BURIAL + EARTH ANCHOR	1	YES	3,500 LBS		
21	18	30	BURIAL + EARTH ANCHOR	1	YES	3,500 LBS		
22	18	40	CHAIN	2	YES		5/16"	CHAIN W/ #20 AND #21 EARTH ANCHOR
23	18	40	EARTH ANCHOR	2	YES	3,500 LBS		
24	18	30	BURIAL		YES			
25	18	30	EARTH ANCHOR	1	YES	3,500 LBS		
26	18	30	EARTH ANCHOR	1	NO	3,500 LBS		
27	18	30	BURIAL		YES			
28	18	30	EARTH ANCHOR	1	YES	3,500 LBS		



TYPICAL CHAIN LOG TO LOG DETAIL



FIELD BOOK: 2014-1 04/2014
SURVEYED: PENDERGAST/ZHANG 04/2014
SURVEY BASE MAP: KITAMURA 05/2014
CHECKED: PENDERGAST 05/2014

NUM.	REVISION	BY	DATE
	60% DESIGN		
	PROGRESS COPY		
	3/31/2017		
NUM.	RECORD CHANGES APPROVED	BY	DATE

APPROVED: JAY SMITH, P.E.	3/2017
PROJECT MANAGER: DAN HECKENDORF, P.E.	3/2017
DESIGNED: DAN HECKENDORF, P.E.	3/2017
REVIEWED: JAY SMITH, P.E.	3/2017
CAD DESIGN: KAY KITAMURA	3/2017

FUNDING SOURCE No.
PROJECT No. 1124988
CONTRACT No.

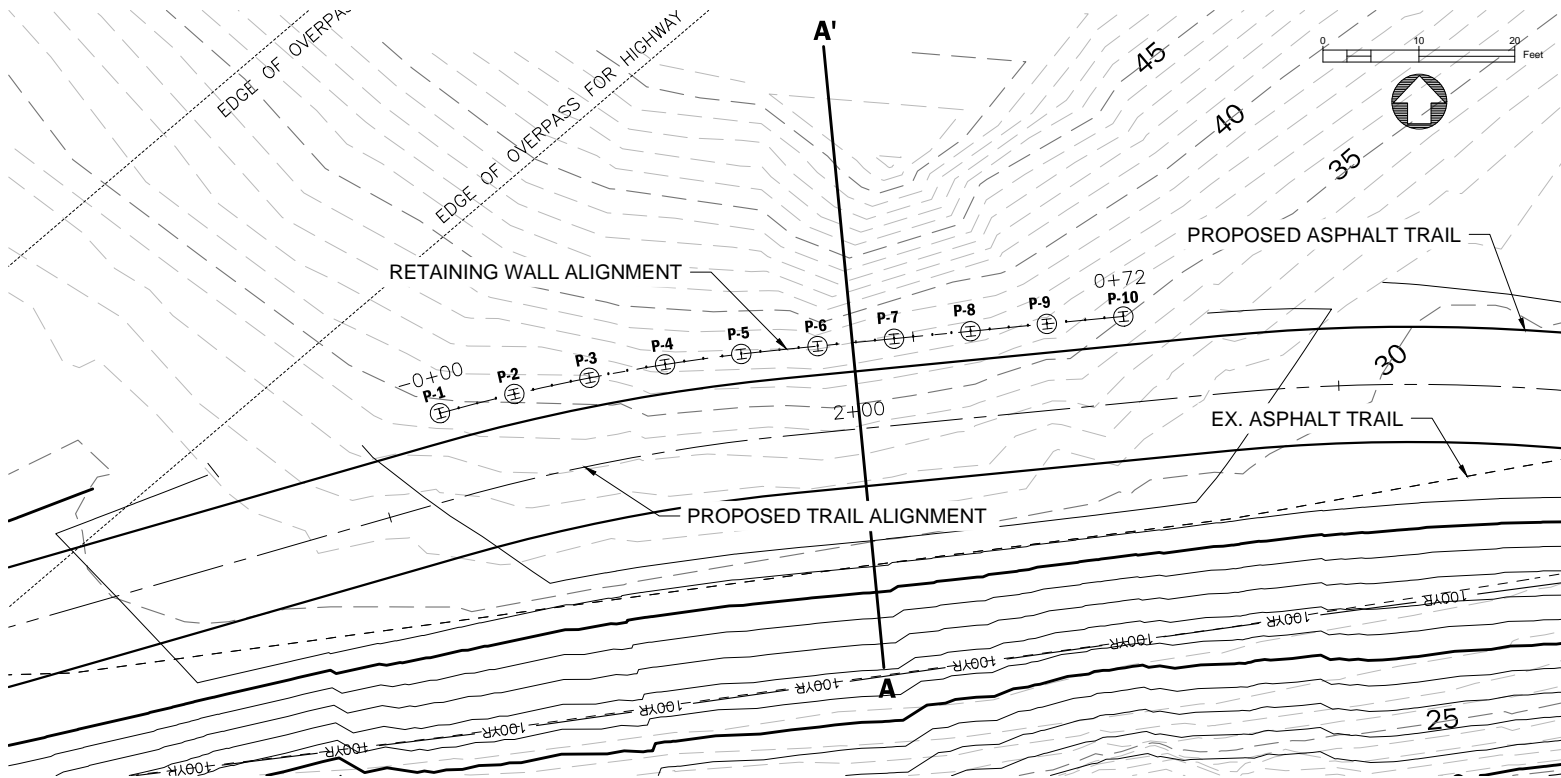


King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

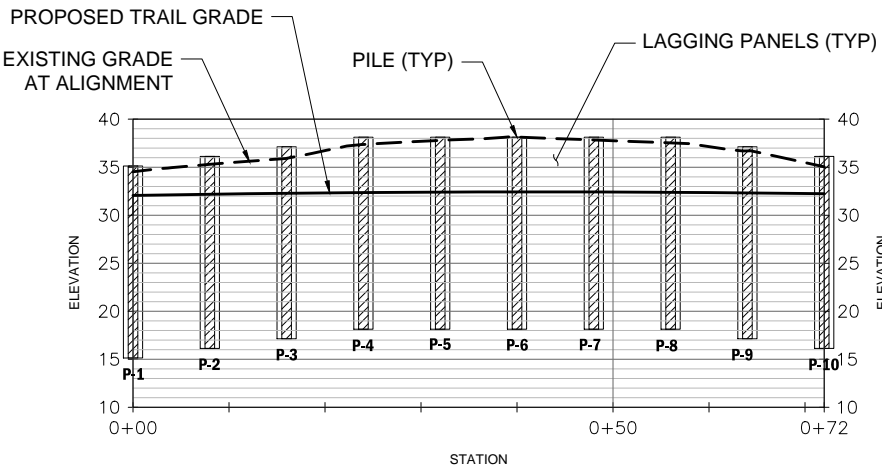
SAMMAMISH RIVER BANK REPAIRS
CIVIL DETAILS (SHEET 2 OF 2)

811
KNOW WHAT'S BELOW.
CALL 2 BUSINESS DAYS
BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)

SHEET
16
OF
23
SHEETS



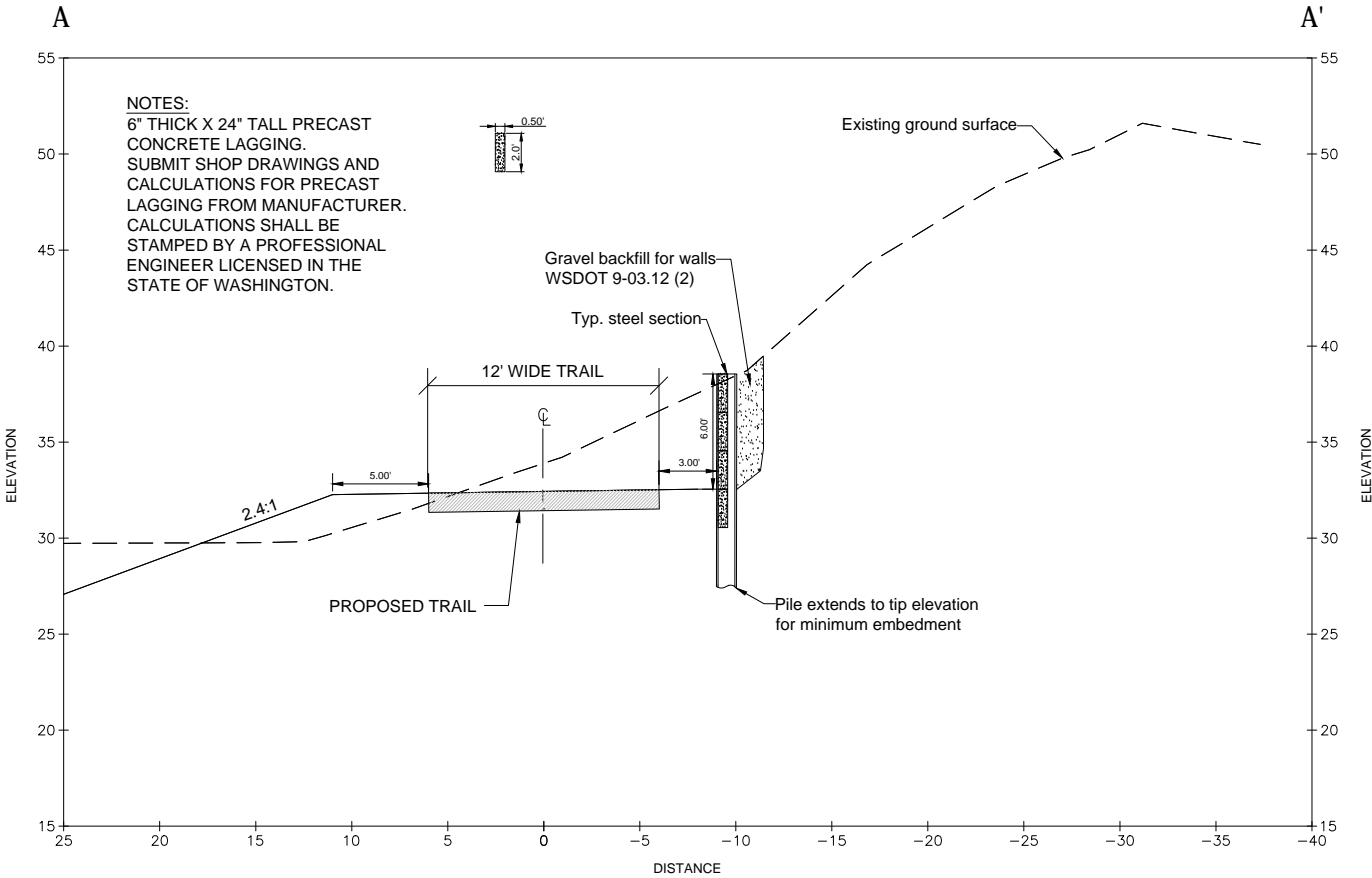
PLAN (A)



PROFILE (B)

SCALE: HORIZONTAL 1"=10' VERTICAL 1"=10'

Soldier Pile Schedule					
Pile ID	Station	Top Elev.	Tip Elev.	Length	Section Info.
P-1	0+00.0	—	—	—	—
P-2	0+08.0	—	—	—	—
P-3	0+16.0	—	—	—	—
P-4	0+24.0	—	—	—	—
P-5	0+32.0	—	—	—	—
P-6	0+40.0	—	—	—	—
P-7	0+48.0	—	—	—	—
P-8	0+56.0	—	—	—	—
P-9	0+64.0	—	—	—	—
P-10	0+72.0	—	—	—	—





TYPICAL SECTION (C)

SCALE: HORIZONTAL 1"=20' VERTICAL 1"=20'



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(UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK: 2014-1 SURVEYED: PENDERGAST/ZHANG SURVEY BASE MAP: KITAMURA CHECKED: PENDERGAST	04/2014	NUM.	REVISION	BY	DATE	APPROVED: JAY SMITH, P.E.	3/2017	FUNDING SOURCE No. _____ PROJECT No. 1124988 CONTRACT No. _____		 <i>Christie True, Director</i>	SHEET 17 OF 23 SHEETS
	04/2014	<div>60% DESIGN PROGRESS COPY 3/24/2017</div>				PROJECT MANAGER: DAN HECKENDORF, P.E.	3/2017				
	05/2014					DESIGNED: _____	3/2017				
	05/2014					REVIEWED: _____	3/2017				
			NUM.	RECORD CHANGES APPROVED	BY	DATE	CAD DESIGN: _____				

TEMPORARY EROSION AND SEDIMENT CONTROL NOTES:

1.

TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) MEASURES SHALL BE INSTALLED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT ALL SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS (KCC 9.04.020 AA, KCRS 7.09D).
2.

INSTALL TURBIDITY CURTAIN AT BOTTOM OF SLOPE PER PLAN.
3.

ALL IN SAMMAMISH RIVER WORK SHALL COMPLY WITH THE WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE HYDRAULIC PERMIT APPROVAL CONDITIONS AND OTHER PERMIT CONDITIONS. MUST MAINTAIN WATER QUALITY STANDARDS.
4.

ALL INSTREAM CONSTRUCTION BELOW OHWM SHALL OCCUR ONLY DURING DRY (NON-RAINING) PERIODS TO LIMIT WATERWAY DEGRADATION.
5.

BIODEGRADABLE HYDRAULIC FLUID AND DIESEL FUEL WILL BE USED IN ALL EQUIPMENT OPERATING IN THE OHWM OF THE SAMMAMISH RIVER.
6.

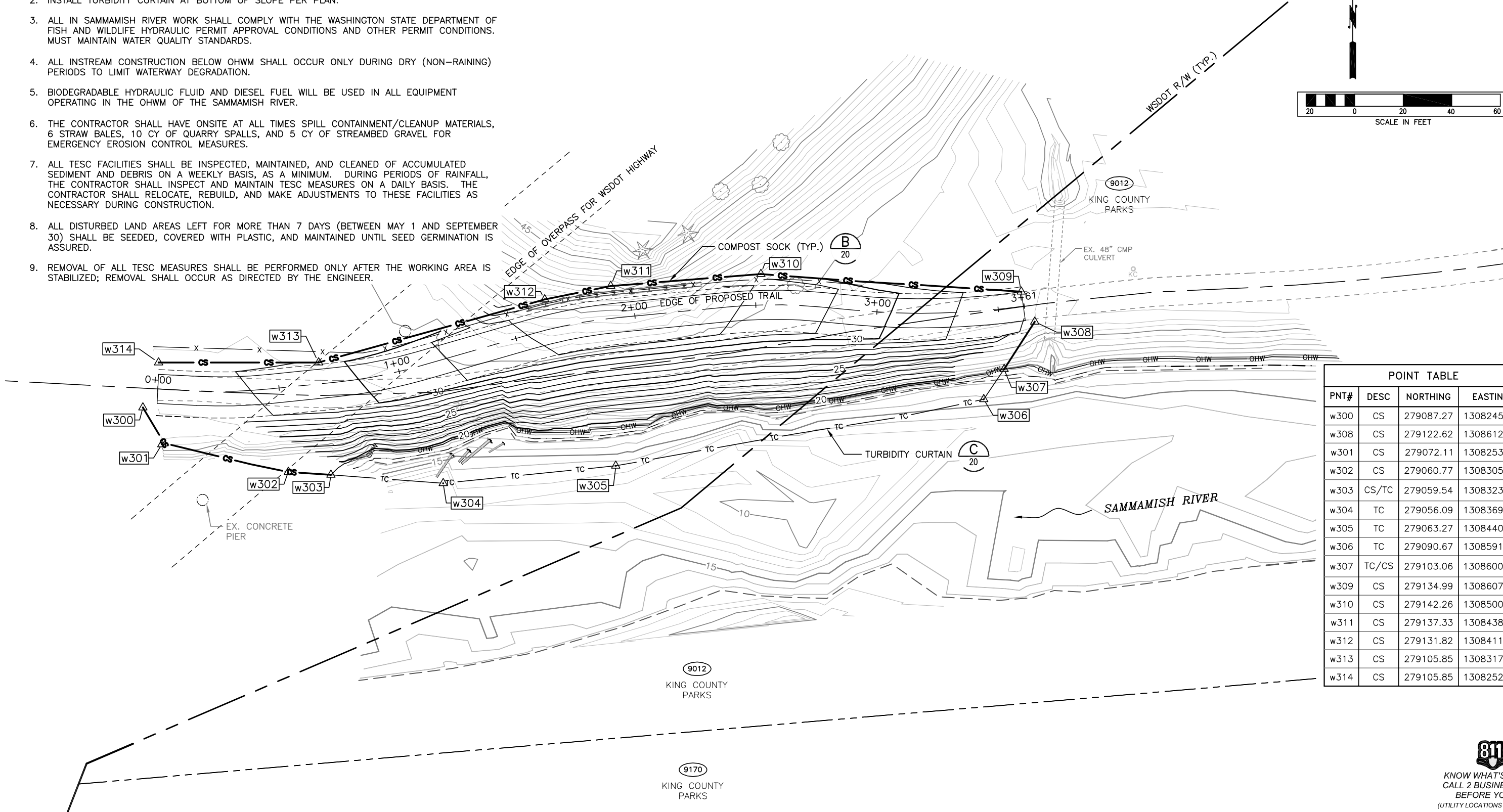
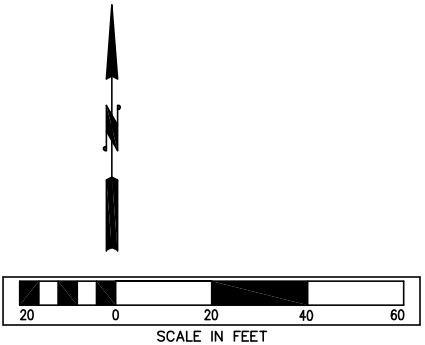
THE CONTRACTOR SHALL HAVE ONSITE AT ALL TIMES SPILL CONTAINMENT/CLEANUP MATERIALS, 6 STRAW BALES, 10 CY OF QUARRY SPALLS, AND 5 CY OF STREAMBED GRAVEL FOR EMERGENCY EROSION CONTROL MEASURES.
7.

ALL TESC FACILITIES SHALL BE INSPECTED, MAINTAINED, AND CLEANED OF ACCUMULATED SEDIMENT AND DEBRIS ON A WEEKLY BASIS, AS A MINIMUM. DURING PERIODS OF RAINFALL, THE CONTRACTOR SHALL INSPECT AND MAINTAIN TESC MEASURES ON A DAILY BASIS. THE CONTRACTOR SHALL RELOCATE, REBUILD, AND MAKE ADJUSTMENTS TO THESE FACILITIES AS NECESSARY DURING CONSTRUCTION.
8.

ALL DISTURBED LAND AREAS LEFT FOR MORE THAN 7 DAYS (BETWEEN MAY 1 AND SEPTEMBER 30) SHALL BE SEEDED, COVERED WITH PLASTIC, AND MAINTAINED UNTIL SEED GERMINATION IS ASSURED.
9.

REMOVAL OF ALL TESC MEASURES SHALL BE PERFORMED ONLY AFTER THE WORKING AREA IS STABILIZED; REMOVAL SHALL OCCUR AS DIRECTED BY THE ENGINEER.

SEC. 9, TWN. 26, R. 5 E, W.M.
NW 4



POINT TABLE			
PNT#	DESC	NORTHING	EASTING
w300	CS	279087.27	1308245.59
w308	CS	279122.62	1308612.93
w301	CS	279072.11	1308253.36
w302	CS	279060.77	1308305.48
w303	CS/TC	279059.54	1308323.03
w304	TC	279056.09	1308369.30
w305	TC	279063.27	1308440.38
w306	TC	279090.67	1308591.93
w307	TC/CS	279103.06	1308600.34
w309	CS	279134.99	1308607.38
w310	CS	279142.26	1308500.13
w311	CS	279137.33	1308438.27
w312	CS	279131.82	1308411.08
w313	CS	279105.85	1308317.97
w314	CS	279105.85	1308252.07

FIELD BOOK: 2014-1 04/2014

SURVEYED:PENDERGAST/ZHANG 04/2014

SURVEY BASE MAP: KITAMURA 05/2014

CHECKED: PENDERGAST 05/2014

NUM. REVISION

BY DATE

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PROGRESS COPY

3/31/2017

NUM. RECORD CHANGES APPROVED

BY DATE

APPROVED: JAY SMITH, P.E. 3/2017

PROJECT MANAGER: DAN HECKENDORF, P.E. 3/2017

DESIGNED: DAN HECKENDORF, P.E. 3/2017

REVIEWED: JAY SMITH, P.E. 3/2017

CAD DESIGN: KAY KITAMURA 3/2017

FUNDING SOURCE No.

PROJECT No. 1124988

CONTRACT No.

Christie True, Director

SAMMAMISH RIVER BANK REPAIRS

TESC PLAN - WEST

SHEET 18 OF 23 SHEETS

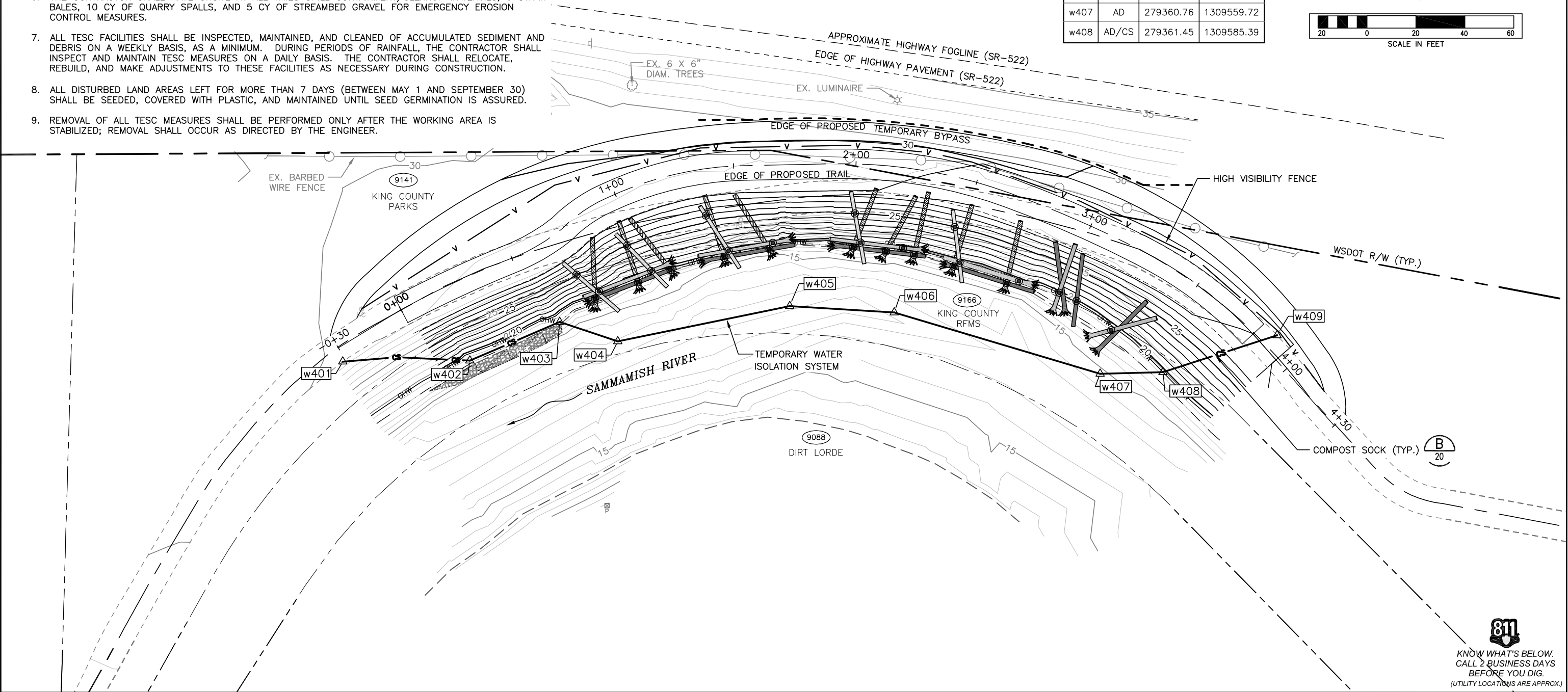
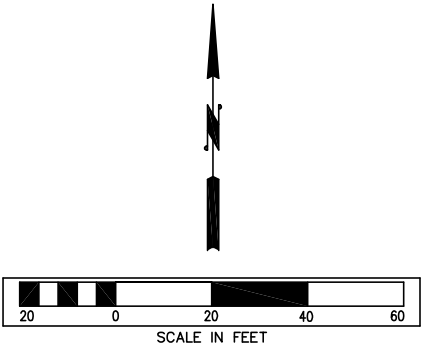
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TEMPORARY EROSION AND SEDIMENT CONTROL NOTES:



- 1. TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) MEASURES SHALL BE INSTALLED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT ALL SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS (KCC 9.04.020 AA, KCRS 7.09D).
- 2. INSTALL FLOW DIVERSION MEASURES AS NEEDED FOR RIVER BANK EXCAVATION.
- 3. ALL IN SAMMAMISH RIVER WORK SHALL COMPLY WITH THE WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE HYDRAULIC PERMIT APPROVAL CONDITIONS AND OTHER PERMIT CONDITIONS. MUST MAINTAIN WATER QUALITY STANDARDS.
- 4. ALL INSTREAM CONSTRUCTION BELOW OHWM SHALL OCCUR ONLY DURING DRY (NON-RAINING) PERIODS TO LIMIT WATERWAY DEGRADATION.
- 5. BIODEGRADABLE HYDRAULIC FLUID AND DIESEL FUEL WILL BE USED IN ALL EQUIPMENT OPERATING IN THE OHWM OF THE SAMMAMISH RIVER.
- 6. THE CONTRACTOR SHALL HAVE ONSITE AT ALL TIMES SPILL CONTAINMENT/CLEANUP MATERIALS, 6 STRAW BALES, 10 CY OF QUARRY SPALLS, AND 5 CY OF STREAMBED GRAVEL FOR EMERGENCY EROSION CONTROL MEASURES.
- 7. ALL TESC FACILITIES SHALL BE INSPECTED, MAINTAINED, AND CLEANED OF ACCUMULATED SEDIMENT AND DEBRIS ON A WEEKLY BASIS, AS A MINIMUM. DURING PERIODS OF RAINFALL, THE CONTRACTOR SHALL INSPECT AND MAINTAIN TESC MEASURES ON A DAILY BASIS. THE CONTRACTOR SHALL RELOCATE, REBUILD, AND MAKE ADJUSTMENTS TO THESE FACILITIES AS NECESSARY DURING CONSTRUCTION.
- 8. ALL DISTURBED LAND AREAS LEFT FOR MORE THAN 7 DAYS (BETWEEN MAY 1 AND SEPTEMBER 30) SHALL BE SEEDED, COVERED WITH PLASTIC, AND MAINTAINED UNTIL SEED GERMINATION IS ASSURED.
- 9. REMOVAL OF ALL TESC MEASURES SHALL BE PERFORMED ONLY AFTER THE WORKING AREA IS STABILIZED; REMOVAL SHALL OCCUR AS DIRECTED BY THE ENGINEER.

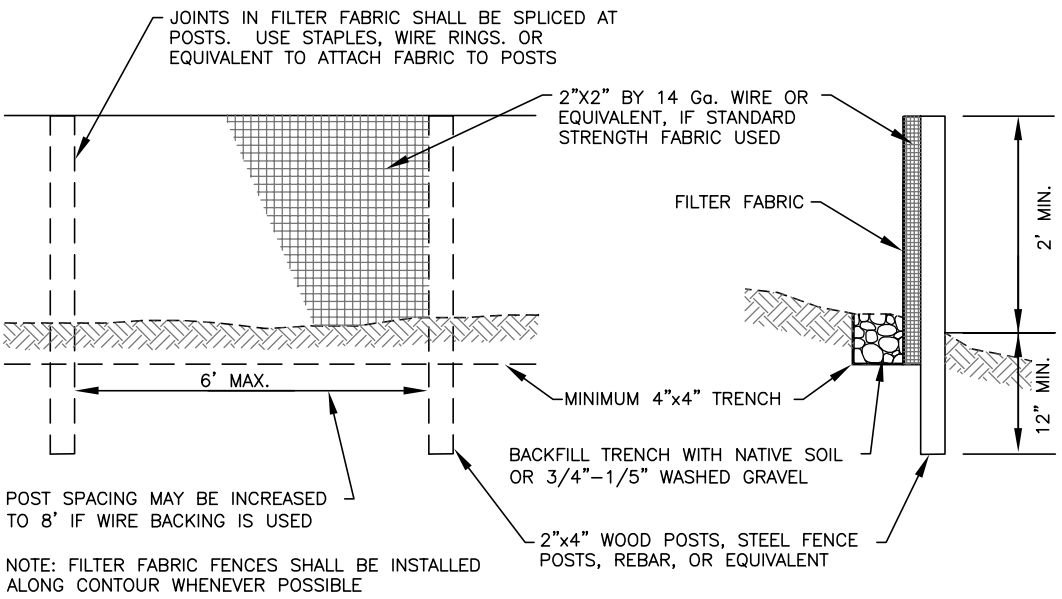
SEC. 9, TWN. 26, R. 5 E, W.M.
NW 4

POINT TABLE			
PNT#	DESC	NORTHING	EASTING
w401	CS	279365.76	1309250.24
w409	CS	279376.51	1309632.01
w402	CS	279366.17	1309302.15
w403	CS/AD	279381.97	1309338.84
w404	AD	279374.01	1309362.61
w405	AD	279388.47	1309432.85
w406	AD	279385.85	1309475.56
w407	AD	279360.76	1309559.72
w408	AD/CS	279361.45	1309585.39

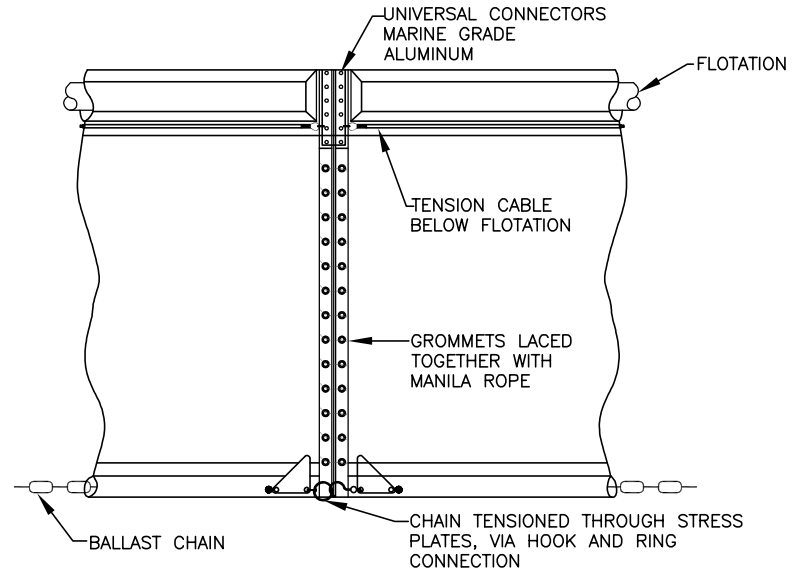


811
KNOW WHAT'S BELOW.
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(UTILITY LOCATIONS ARE APPROX.)

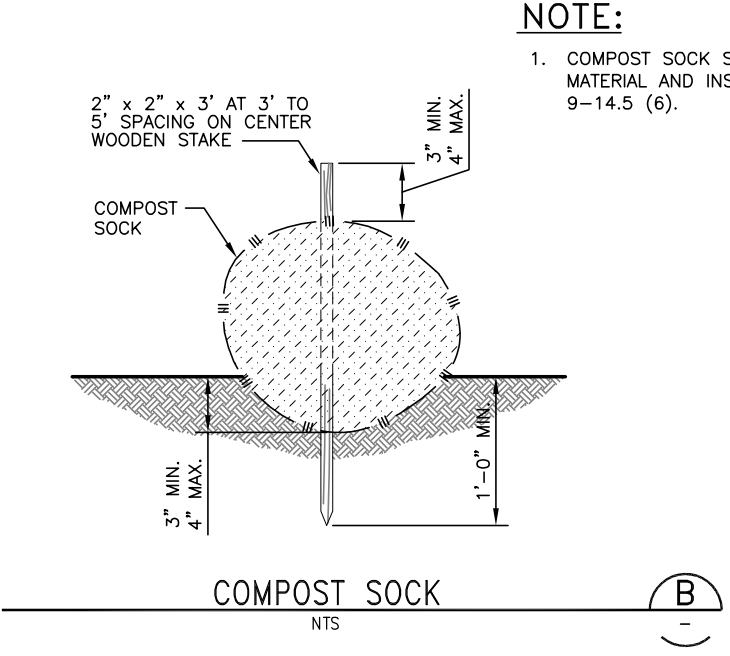
FIELD BOOK: 2014-1 SURVEYED:PENDERGAST/ZHANG SURVEY BASE MAP: KITAMURA CHECKED: PENDERGAST	04/2014	NUM.	REVISION	BY	DATE	APPROVED: JAY SMITH, P.E.	3/2017	FUNDING SOURCE No. PROJECT No. 1124988 CONTRACT No.			SHEET 19 OF 23 SHEETS
	04/2014		60% DESIGN			PROJECT MANAGER: DAN HECKENDORF, P.E.	3/2017				
	05/2014		PROGRESS COPY			DESIGNED: DAN HECKENDORF, P.E.	3/2017				
	05/2014		3/31/2017								
		NUM.	RECORD CHANGES APPROVED	BY	DATE	REVIEWED: JAY SMITH, P.E.	3/2017	SHEETS	TESC PLAN - EAST		
						CAD DESIGN: KAY KITAMURA	3/2017				



SILT FENCE DETAIL
NTS



TURBIDITY CURTAIN DETAIL
NTS





NOTE:
1. COMPOST SOCK SHALL BE 100% NATURAL AND BIODEGRADABLE. MATERIAL AND INSTALLATION SHALL BE PER 8-01.3(12) AND 9-14.5 (6).

TESC NOTES:

1. PROTECT EXISTING TREES AND SHRUBS UNLESS SHOWN OTHERWISE ON THE PLANS.
2. SLOPES AND STOCKPILES 3H:1V OR STEEPER AND WITH MORE THAN 10- FEET OF VERTICAL RELIEF SHALL BE COVERED IF THEY ARE TO REMAIN UNWORKED FOR MORE THAN 12 HOURS.
3. SEED ALL DISTURBED AREAS TO THE SPECIFICATIONS OF SECTION D.3.2.6 OF APPENDIX D "EROSION AND SEDIMENT CONTROL STANDARDS" OF THE 2009 KING COUNTY, WASHINGTON SURFACE WATER DESIGN MANUAL.
4. COVER ALL DISTURBED AREAS WITH WOOD STRAW INSTALLED PER MAN. DIRECTION.
5. AT THE COMPLETION OF THE PROJECT REMOVE TEMPORARY EROSION CONTROL BMP'S INCLUDING SILT FENCING PLASTIC CONSTRUCTION FENCING AND CONSTRUCTION ENTRANCE.
6. SEE CONTRACT SPECIFICATIONS FOR TESC REQUIREMENTS.

811
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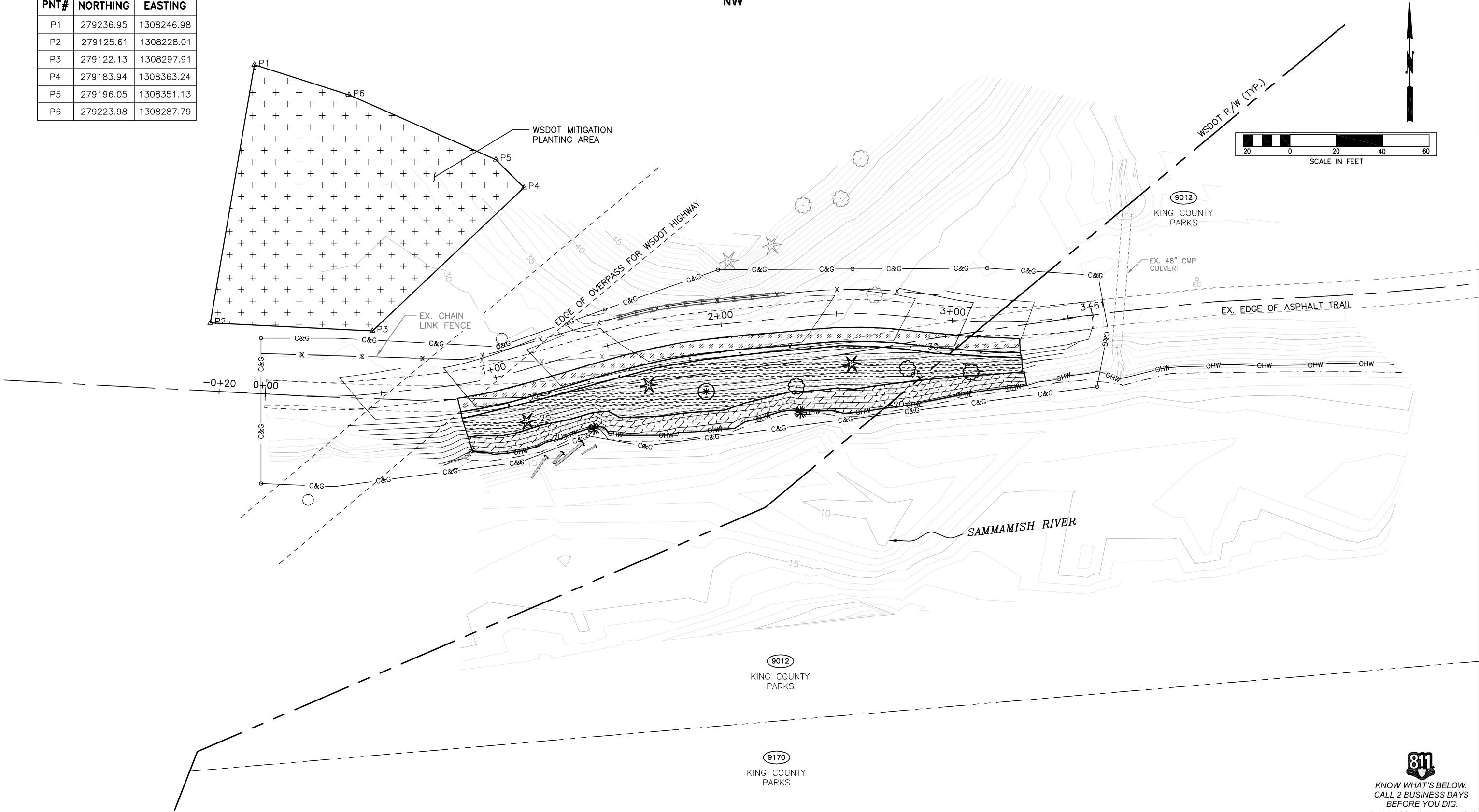
FIELD BOOK: 2014-1 SURVEYED: PENDERGAST/ZHANG SURVEY BASE MAP: KITAMURA CHECKED: PENDERGAST	04/2014	NUM.	REVISION	BY	DATE	APPROVED: JAY SMITH, P.E.	3/2017	FUNDING SOURCE No. _____ PROJECT No. 1124988 CONTRACT No. _____			SAMMAMISH RIVER BANK REPAIRS TESC DETAILS	SHEET 20 OF 23 SHEETS
	04/2014					PROJECT MANAGER: DAN HECKENDORF, P.E.	3/2017					
	05/2014					DESIGNED: DAN HECKENDORF, P.E.	3/2017					
	05/2014					REVIEWED: JAY SMITH, P.E.	3/2017					
		NUM.	RECORD CHANGES APPROVED	BY	DATE	CAD DESIGN: KAY KITAMURA	3/2017					

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SEC. 9, TWN. 26, R. 5 E, W.M.
NW⁴

Point Table		
PNT#	NORTHING	EASTING
P1	279236.95	1308246.98
P2	279125.61	1308228.01
P3	279122.13	1308297.91
P4	279183.94	1308363.24
P5	279196.05	1308351.13
P6	279223.98	1308287.79



FIELD BOOK: 2014-1 04/2014
SURVEYED: PENDERGAST/ZHANG 04/2014
SURVEY BASE MAP: KITAMURA 05/2014
CHECKED: PENDERGAST 05/2014

NUM.	REVISION	BY	DATE
	60% DESIGN		
	PROGRESS COPY		
	3/31/2017		
NUM.	RECORD CHANGES APPROVED	BY	DATE

APPROVED: JAY SMITH, P.E.	3/2017
PROJECT MANAGER: KATE AKYUZ	3/2017
DESIGNED: KATE AKYUZ	3/2017
REVIEWED: JAY SMITH, P.E.	3/2017
CAD DESIGN: KAY KITAMURA	3/2017

FUNDING SOURCE No.	
PROJECT No.	1124988
CONTRACT No.	



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

SAMMAMISH RIVER BANK REPAIRS

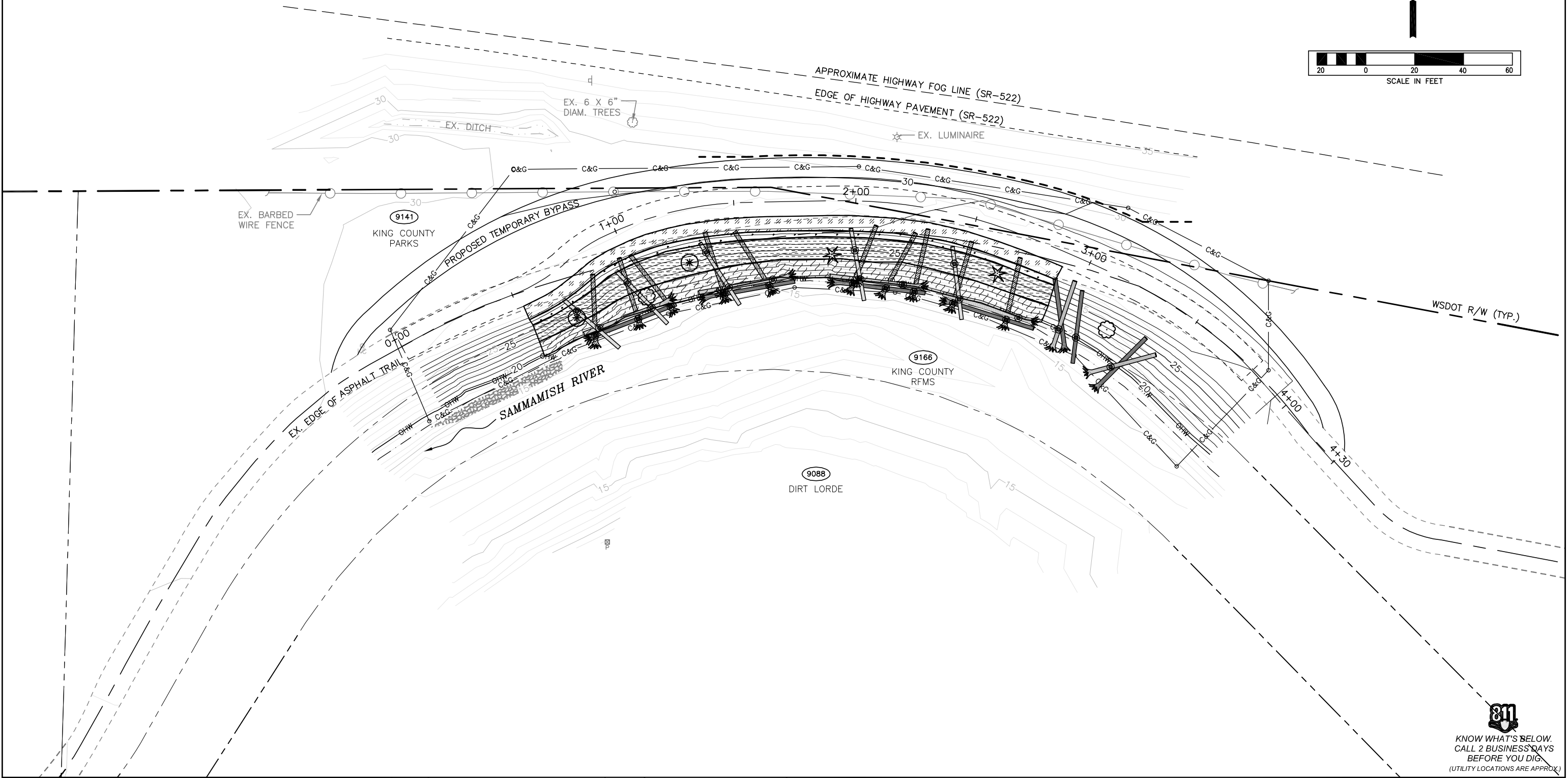
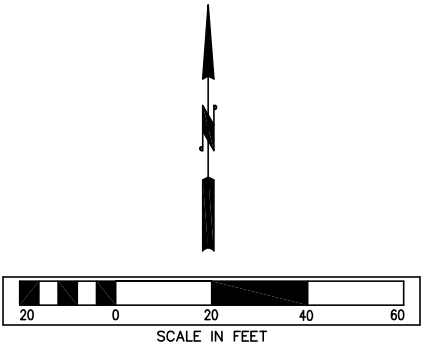
PLANTING PLAN - WEST

811
KNOW WHAT'S BELOW.
CALL 2 BUSINESS DAYS
BEFORE YOU DIG.
(UTILITY LOCATIONS ARE APPROX.)



SHEET
21
OF
23
SHEETS

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SEC. 9, TWN. 26, R. 5 E, W.M.
NW⁴





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FIELD BOOK: 2014-1 SURVEYED: PENDERGAST/ZHANG SURVEY BASE MAP: KITAMURA CHECKED: PENDERGAST	04/2014	NUM.	REVISION	BY	DATE	APPROVED: JAY SMITH, P.E.	3/2017	FUNDING SOURCE No. _____ PROJECT No. 1124988 CONTRACT No. _____		 King County Department of Natural Resources and Parks Water and Land Resources Division River and Floodplain Management Section <i>Christie True, Director</i>	SAMMAMISH RIVER BANK REPAIRS PLANTING PLAN - EAST	SHEET 22 OF 23 SHEETS
	04/2014					PROJECT MANAGER: KATE AKYUZ	3/2017					
	05/2014					DESIGNED: KATE AKYUZ	3/2017					
	05/2014					REVIEWED: JAY SMITH, P.E.	3/2017					
		NUM.	RECORD CHANGES APPROVED	BY	DATE	CAD DESIGN: KAY KITAMURA	3/2017					

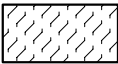
60% DESIGN
PROGRESS COPY
3/31/2017

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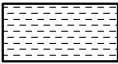
PLANTING SCHEDULE



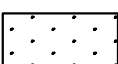
BELOW OHWM
PRE-TREAT INVASIVE PLANTS –
INSTALL BEHIND COIR LOG. SECURE
WITH STAKES.




OHWM +5
WSDOT SPEC WOOD CHIP MULCH
4”–6”. SINGLE SPECIES GROUPS OF
3 TO 5.



UPLANDBANK
WSDOT SPEC WOOD CHIP MULCH
4”–6”. PLANTING SHRUBS – PLANT
SHRUBS IN SINGLE SPECIES GROUPS
OF 3 TO 5.




NATIVE GRASS
DO NOT OVERSPRAY ON LOW-GROWING
UPLAND. SEED MIX, SEE SPECS.



LOW GROWING UPLAND


TREE LEGEND




BIG LEAF MAPLE



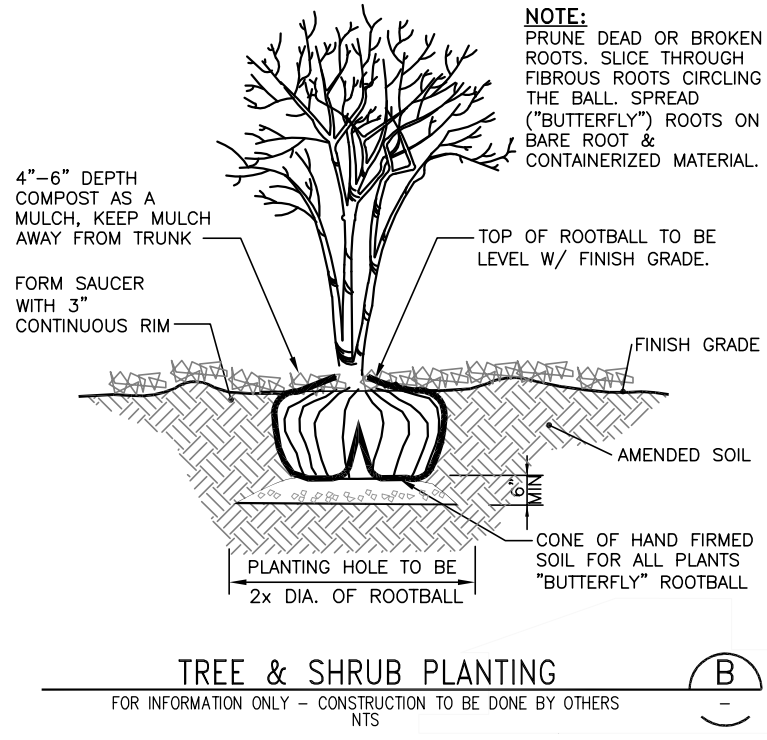
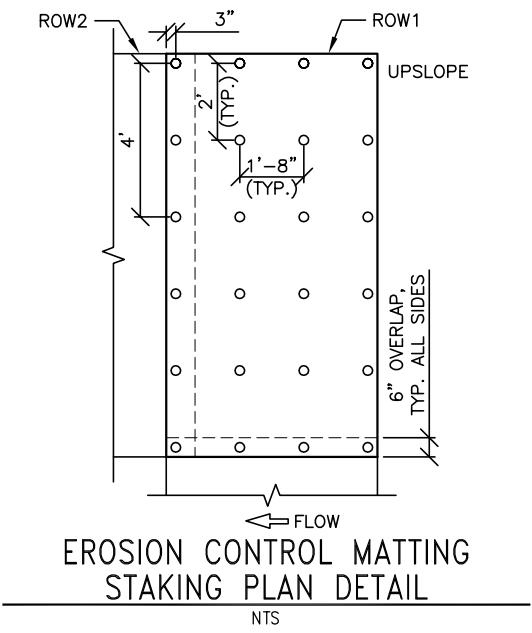
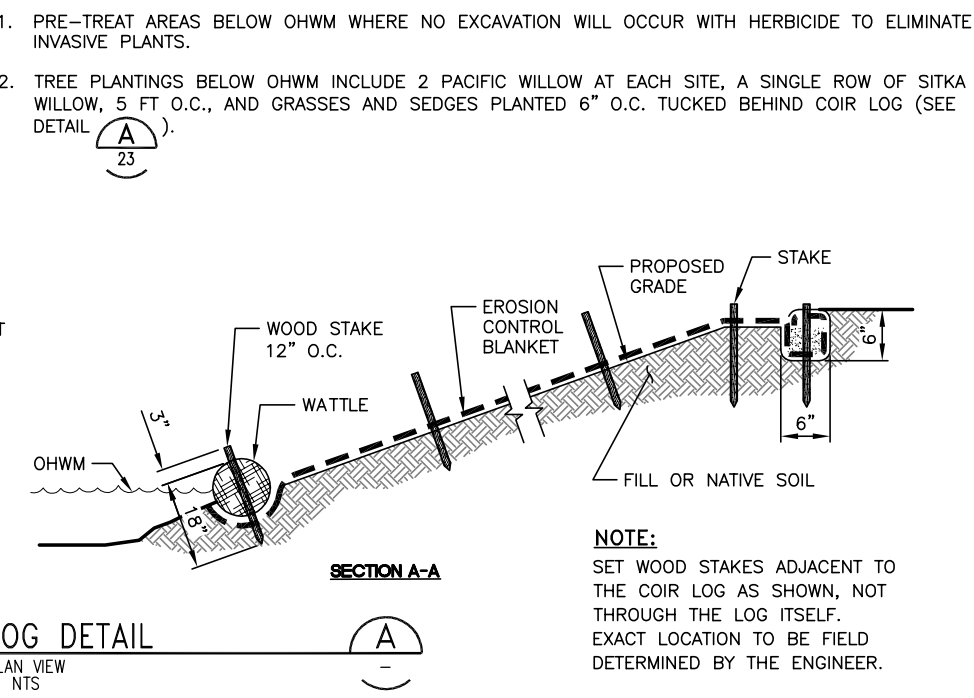
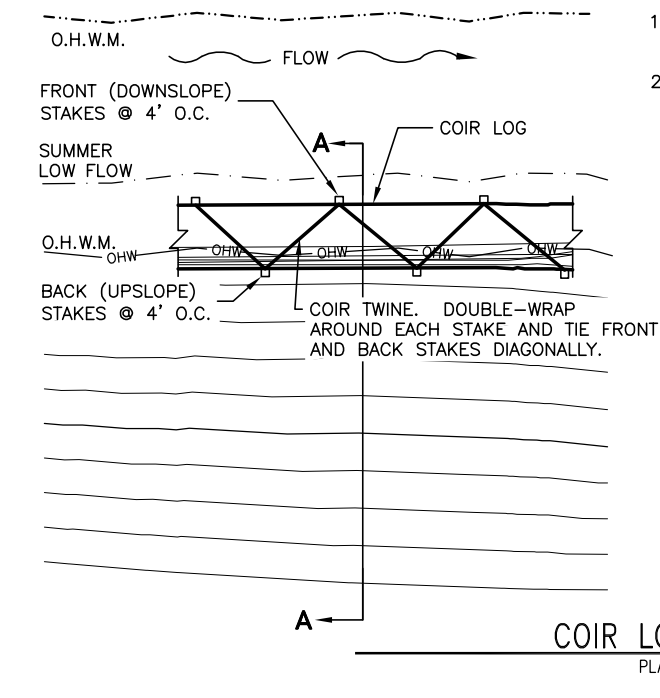
DOUGLAS FIR



RED ALDER

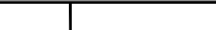
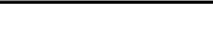
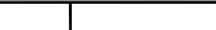
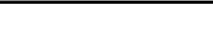


PACIFIC WILLOW



PLANTING NOTES

1. PRESERVE AND PROTECT ALL EXISTING TREES NOT DESIGNATED FOR REMOVAL. PROVIDE, ERECT AND MAINTAIN BARRICADES NECESSARY TO PREVENT ACCESS TO AREA WITHIN DRIPLINE OF EXISTING TREES.
2. DO NOT DRIVE OR PARK ANY VEHICLES OR EQUIPMENT, STORE MATERIALS, STOCKPILE SOIL OR GRAVEL, OR DISPOSE OF ANY CONSTRUCTION OR WASTE MATERIALS WITHIN DRIPLINES OF EXISTING OR NEWLY INSTALLED PLANTS. RESTRICT FOOT TRAFFIC WITHIN PROTECTED AREAS. ALL AREAS SHALL BE WEED FREE PRIOR TO SOIL WORK.
3. AFTER CLEARING AND STRIPPING HAS BEEN COMPLETED, PREPARE SOIL BY TOP-DRESSING WITH ORGANIC COMPOST PER REQUIREMENTS IN THE SPECS.
4. PRIOR TO PLANTING, ENGINEER WILL INSPECT PREPARED SOIL FOR DEPTH AND AMOUNT OF COMPOST. NOTIFY ENGINEER A MIN OF 48 HOURS BEFORE PROCEEDING WITH SOIL CULTIVATION/AMENDMENT INSPECTION.
5. AFTER ENGINEER HAS APPROVED PREPARED SOIL LAYER, NO VEHICLES, CONSTRUCTION EQUIPMENT, OR STACKING OR STORING MATERIALS SHALL BE ALLOWED IN PLANTING AREAS. LIMIT FOOT TRAFFIC IN PLANTING AREAS. SOIL COMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE RE-TILLED PER THE PLANS AND SPECIFICATIONS.
6. PRIOR TO PLANTING, PLACE ALL TREES AND SHRUBS AS INDICATED ON PLANS, OR MARK EACH LOCATION WITH WOOD STAKES OR COLORED WIRE FLAGS MARKED WITH THE FIRST 2 LETTERS OF BOTH PLANT SPECIES AND GENUS (E.G. CO SE FOR CORNUS SERICEA). NO PLANTING HOLES SHALL BE DUG OR BACKFILLED WITHOUT PRIOR APPROVAL OF ENGINEER. NOTIFY ENGINEER A MIN OF 72 HOURS BEFORE PLANTING TO ALLOW ENGINEER AMPLE TIME TO ADJUST PLANT LOCATIONS. PROVIDE EXTRA STAKES OR FLAGS SUFFICIENT TO MARK LOCATIONS OF PLANTS NOT LOCATED ON PLAN.
7. PLANTINGS SHALL CONSIST OF MULTIPLE SAME-SPECIES GROUPS. CONTRACTOR SHALL ENSURE THAT THESE GROUPS ARE SHAPED IRREGULARLY. SEE PLANTING SCHEDULE FOR NUMBERS OF PLANTS IN SAME-SPECIES GROUPS.
8. INSTALL BEAVER CONTROL MESH (CHICKEN WIRE) ON ALL TREES BETWEEN TRAILS AND RIVER.
9. INSTALL WSDOT SPEC. WOOD CHIP MULCH 4”–6” ON OHWM +5 & UPLAND BANK PLANTING AREAS.
10. UNLESS OTHERWISE INDICATED ON THE PLANS, A 5’ WIDE STRIP ALONG THE WEST SIDE OF THE SAMMAMISH RIVER TRAIL, AND ON BOTH SIDES OF THE GRAVEL ACCESS TRAIL ON THE WEST SIDE OF THE SAMMAMISH RIVER SHALL BE SEEDED WITH THE HABITAT RESTORATION SEED MIX. APPLY LOW GROWING TURF SEED MIX (TABLE D.3.2.D, KCSWDM) AT THE RATE OF 120 LBS PER ACRE.
11. RESTORE EXIST TURF AREAS IMPACTED BY CONSTRUCTION-RELATED ACTIVITIES. RESTORATION SHALL INCLUDE THOROUGHLY CULTIVATING SOIL. APPLY 3” TOPSOIL. SMOOTH SOIL SURFACE, GRADE TO MATCH ADJACENT TURF AND PAVED AREAS, AND HYDROSEED WITH FINE LAWN SEED MIX.
12. UNLESS OTHERWISE DIRECTED BY ENGINEER, LIVESTAKES SHALL BE FRESHLY CUT FROM DORMANT PLANTS. PLANTS SHALL BE 1½”–2” IN DIAMETER AND 6’ TALL. CUT TOPS OF STAKES STRAIGHT ACROSS. CUT BOTTOMS STAKES AT AN ANGLE. INSTALL STAKES IN PILOT HOLES TO A DEPTH OF 2–3’– DO NOT POUND STAKES IN. IF NOT PLANTED IMMEDIATELY, STAKES MUST BE KEPT IN COOL, SHADED, MOIST CONDITIONS. STAKES MUST BE PLANTED WITHIN 2 WEEKS OF BEING CUT. MOIST AND SOAK LIVESTAKES FOR 24 HOURS BEFORE INSTALLING.

FIELD BOOK: 2014-1		04/2014	NUM.		REVISION	BY	DATE	APPROVED: JAY SMITH, P.E.	3/2017	FUNDING SOURCE No. _____		 <i>Christie True, Director</i>	SHEET 23 OF 23 SHEETS			
SURVEYED: PENDERGAST/ZHANG		04/2014					PROJECT MANAGER: KATE AKYUZ	3/2017	PROJECT No. 1124988							
SURVEY BASE MAP: KITAMURA		05/2014					DESIGNED: KATE AKYUZ	3/2017								
CHECKED: PENDERGAST		05/2014														
			NUM.		RECORD CHANGES APPROVED	BY	DATE	REVIEWED: JAY SMITH, P.E.	3/2017	CONTRACT No. _____					 <i>Christie True, Director</i>	SAMMAMISH RIVER BANK REPAIRS
								CAD DESIGN: KAY KITAMURA	3/2017							