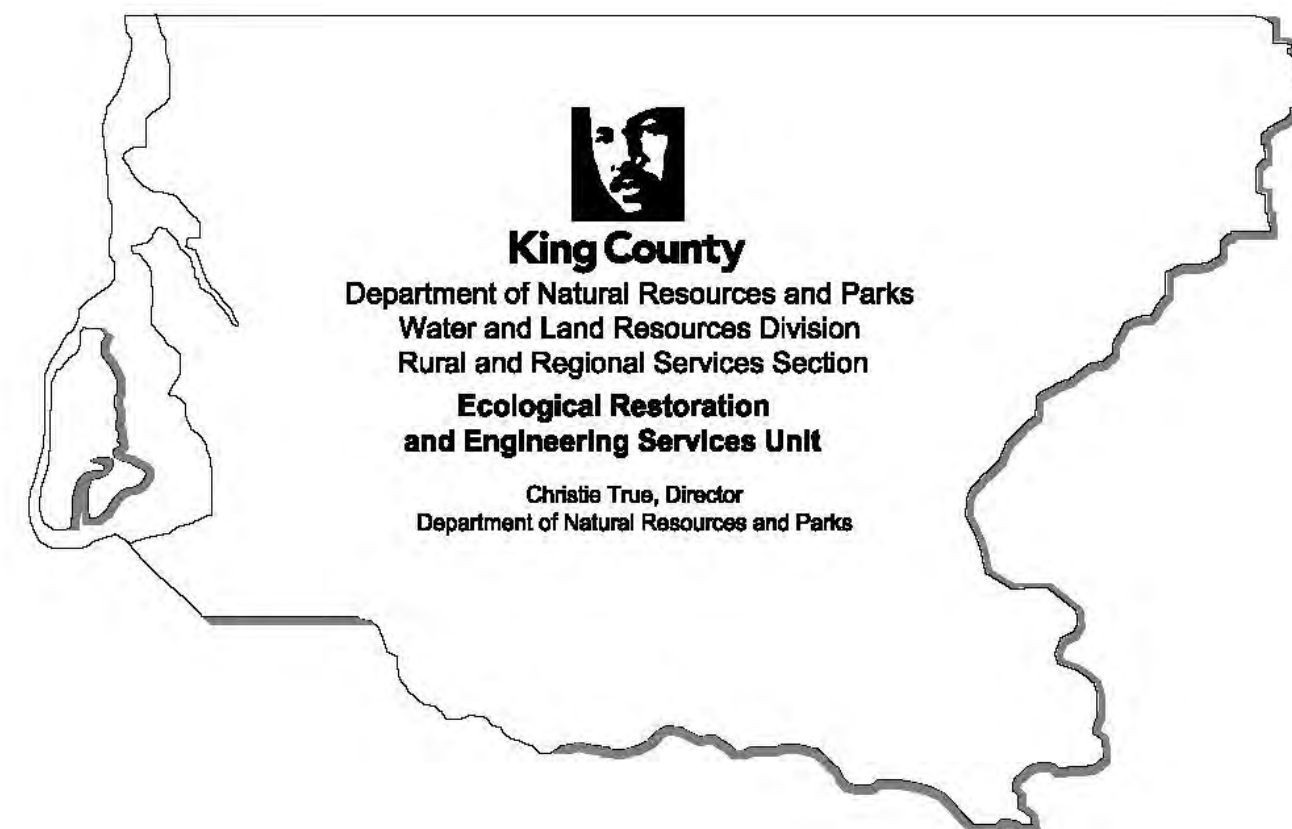
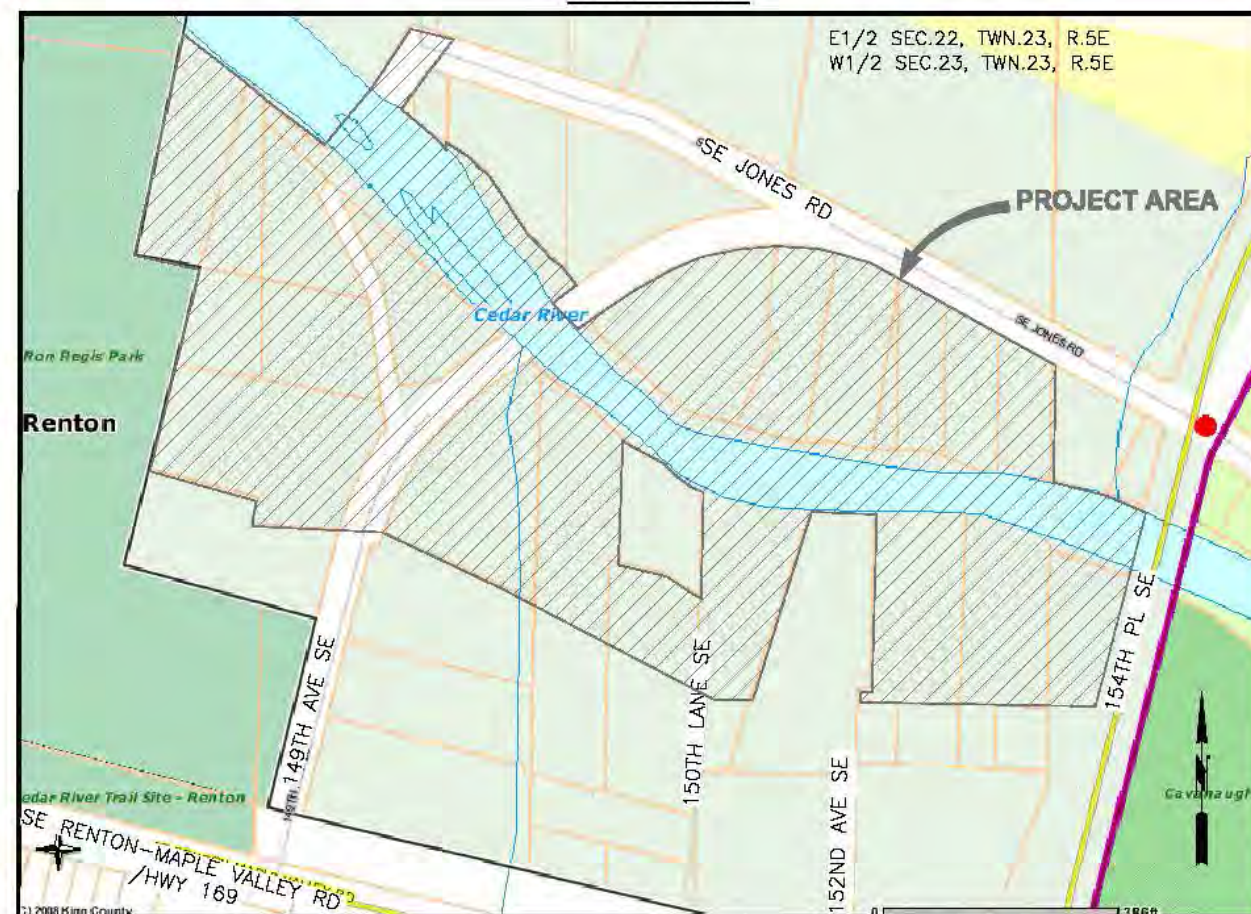


VICINITY MAP



INDEX

SHEET	DESCRIPTION
1	VICINITY MAP AND SHEET INDEX
2	LEGEND AND ABBREVIATIONS
3	EXISTING CONDITIONS SITE PLAN
4	KEY PLAN
5	RIGHT BANK - PLAN
6	RIGHT BANK - SECTIONS
7	RIGHT BANK - DETAILS
8	LEFT BANK BACKWATER CHANNELS PLAN
9	LEFT BANK BACKWATER CHANNELS PROFILES AND DETAILS
10	LEFT BANK BACKWATER CHANNELS SECTIONS AND LARGE WOOD DETAILS
11	SCOUR STRUCTURE DETAILS AND SECTIONS
12	ALTERNATIVE SCOUR STRUCTURE DETAIL AND SECTION
13	TESC PLAN
14	TESC DETAILS AND SEQUENCE
15	PLANTING PLAN - RIGHT BANK
16	PLANTING PLAN - LEFT BANK
17	PLANTING DETAILS AND SCHEDULE









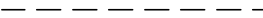






ELLIOTT BRIDGE REACH OFF-CHANNEL HABITAT AND FLOODPLAIN RECONNECTION *PERMIT PLAN SET* *NOT FOR CONSTRUCTION*

CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)












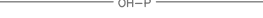

FILE: KROADS 14045	7-3-14	NUM.	REVISION	BY	DATE	APPROVED: WILL MANSFIELD, P.E.	10/2014	FUNDING			King County Department of Natural Resources and Parks Water and Land Resources Division Rural and Regional Services Section Ecological Restoration and Engineering Services Unit Christie True, Director	ELLIOTT BRIDGE REACH OFF-CHANNEL HABITAT AND FLOODPLAIN RECONNECTION VICINITY MAP AND SHEET INDEX	SHEET 1 OF 17 SHEETS 2013-12
SURVEYED: D. WONIO	7-2-14					PROJECT MANAGER: JON HANSEN	10/2014	SOURCE No.					
SURVEY BASE MAP: R. CLARK	7-3-14					DESIGNED: ALEX HALLENIUS, P.E.	10/2014	PROJECT No.	1112219				
CHECKED: T. CRAY, P.L.S.	7-3-14					PAUL ADLER, C. BUTCHART, P.E.	10/2014	CONTRACT No.	XXXX				
		NUM.	RECORD CHANGES APPROVED	BY	DATE	T. HURLEY, L.E.G., L. O'ROLLINS	10/2014						
						CAD DESIGN: L. TRAXINGER	10/2014						

LEGEND

SURVEY	DESCRIPTION
	MONITORING WELL
	GAUGE
	EXISTING TREE
	FACE ROCK WITH NO TOE ROCK
	EXISTING LEVEE WITH TOE ROCK
	EXISTING LEVEE WITH NO TOE ROCK
	CONTOUR INTERVAL
 70	CONTOUR INDEX
	EASEMENT (PERMANENT)
 ROW	RIGHT OF WAY
	PROPERTY LINE
	RENTON CITY LIMITS
	EDGE OF PAVEMENT (EOP)
 OHW	ORDINARY HIGH WATER (OHW)
	EXISTING WETLAND











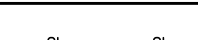
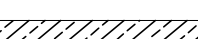
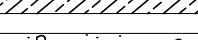
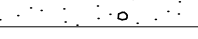


CONTRACTOR SHALL VERIFY LOCATION AND DEPTHS
OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

EXISTING UTILITIES

	GUY WIRE ANCHOR		POWER METER
	POWER POLE		POWER RISER
	WATER VALVE		WATER WELL
	WATER METER		
	FIRE HYDRANT		
	CATCH BASIN		
	STORM DRAIN PIPE		
 OH-P	OVERHEAD POWER		
 UGP	UNDERGROUND POWER		
 FO	FIBER OPTIC		

CONSTRUCTION

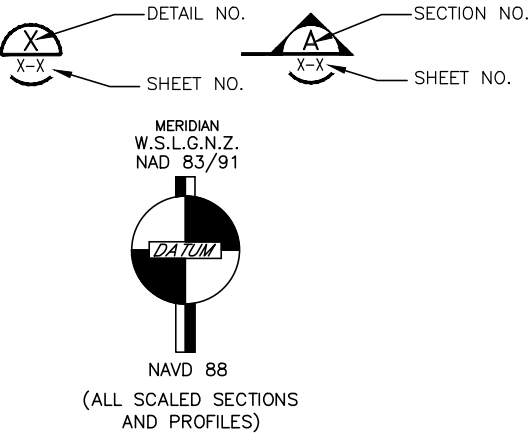
DESCRIPTION

	EASEMENT (TEMPORARY)
 SF	SILT FENCE
 HVF	HIGH VISIBILITY CONSTRUCTION FENCE
 CLR	CLEARING LIMITS
 100Y	100 YEAR FLOODPLAIN
	CENTERLINE
	PROJECT LIMITS
	EXISTING GRADE
	PROPOSED GRADE
 CL	CONSTRUCTION LIMIT
	IMPORTED TOPSOIL MIX
	NATIVE BACKFILL
	ROCK
	EXISTING SUBSTRATE
	WETLAND ENCHANCEMENT – LEFT BANK
	WETLAND BUFFER – RIGHT BANK

ABBREVIATIONS



APPROX.	APPROXIMATELY
CL	CLASS
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CSBC	CRUSHED SURFACING BASE COURSE
C.Y.	CUBIC YARD
DIAM	DIAMETER
EA	EACH
EL	ELEVATION
EOP	EDGE OF PAVEMENT
ESC	EROSION AND SEDIMENT CONTROL
EX.	EXISTING
FCD	FLOOD CONTROL DISTRICT
FT	FOOT/FEET
I.E.	INVERT ELEVATION
LF	LINEAL FOOT/FEET
LWD	LARGE WOODY DEBRIS
NTS	NOT TO SCALE
O.C.	ON CENTER
OHW	ORDINARY HIGH WATER
R/W	RIGHT-OF-WAY
SHLDR	SHOULDER
STA.	STATION
TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
TYP.	TYPICAL
WSE	WATER SURFACE ELEVATION
WAC	WASHINGTON ADMINISTRATIVE CODE
WQ	WATER QUALITY
100 YR WSE	100 YEAR WATER SURFACE ELEVATION

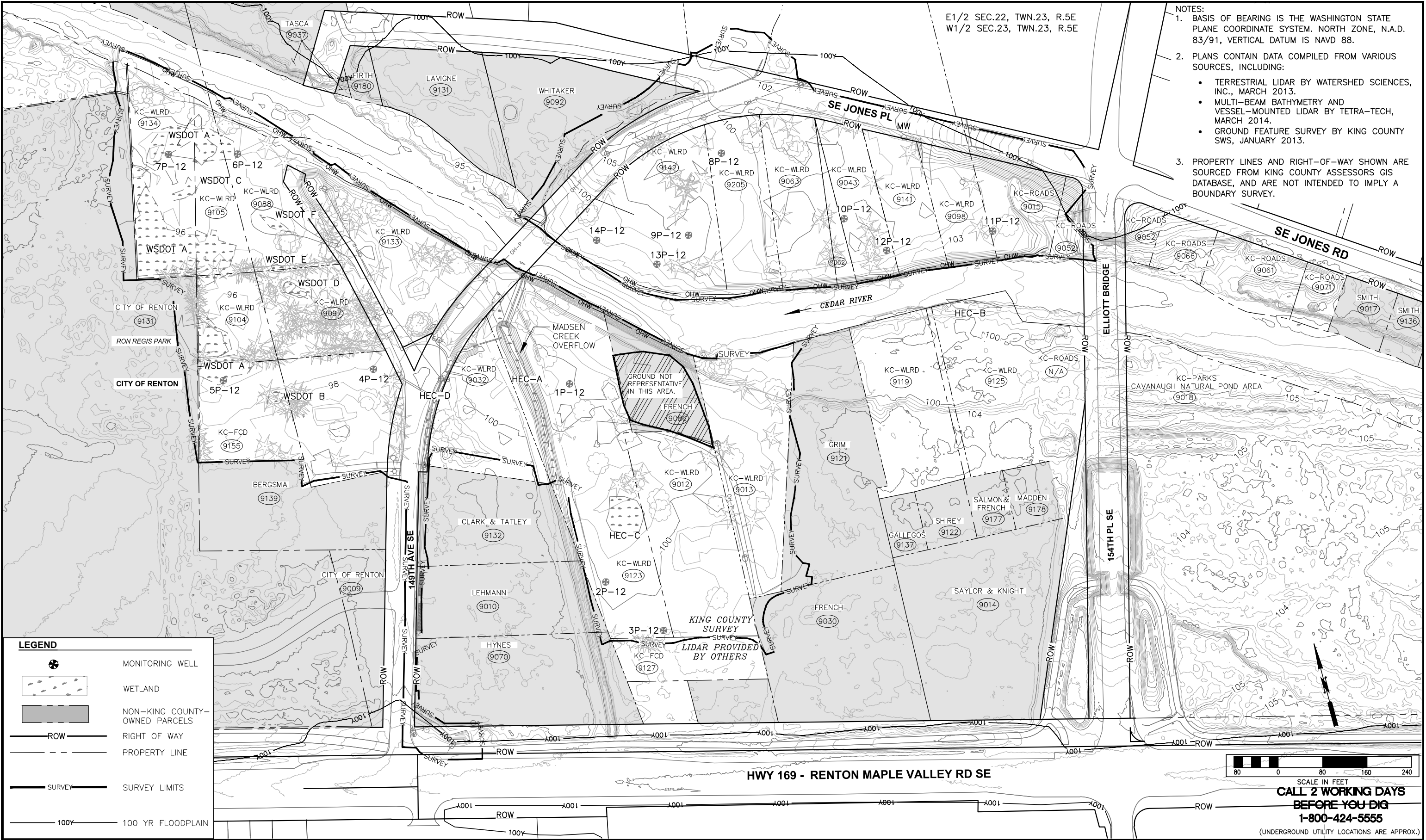
SYMBOLS



CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FILE: KROADS 14045 SURVEYED: D. WONIO SURVEY BASE MAP: R. CLARK CHECKED: T. CRAY, P.L.S.	7-3-14	NUM.	REVISION	BY	DATE	APPROVED: WILL MANSFIELD, P.E.	10/2014	FUNDING			 Department of Natural Resources and Parks Water and Land Resources Division Rural and Regional Services Section Ecological Restoration and Engineering Services Unit <i>Christie True, Director</i>	ELLIOTT BRIDGE REACH OFF-CHANNEL HABITAT AND FLOODPLAIN RECONNECTION LEGEND AND ABBREVIATIONS	SHEET 2 OF 17 SHEETS 2013-12
	7-2-14					PROJECT MANAGER: JON HANSEN	10/2014	SOURCE No.					
	7-3-14					DESIGNED: ALEX HALLENIUS, P.E.	10/2014	PROJECT No.	1112219				
	7-3-14					PAUL ADLER, C. BUTCHART, P.E.	10/2014	CONTRACT No.	XXXX				
	7-3-14					T. HURLEY, L.E.G., L. O'ROLLINS	10/2014						
		NUM.	RECORD CHANGES APPROVED	BY	DATE	CAD DESIGN: L. TRAXINGER	10/2014						



- NOTES:
1. BASIS OF BEARING IS THE WASHINGTON STATE PLANE COORDINATE SYSTEM. NORTH ZONE, N.A.D. 83/91, VERTICAL DATUM IS NAVD 88.
 2. PLANS CONTAIN DATA COMPILED FROM VARIOUS SOURCES, INCLUDING:
 - TERRESTRIAL LIDAR BY WATERSHED SCIENCES, INC., MARCH 2013.
 - MULTI-BEAM BATHYMETRY AND VESSEL-MOUNTED LIDAR BY TETRA-TECH, MARCH 2014.
 - GROUND FEATURE SURVEY BY KING COUNTY SWS, JANUARY 2013.
 3. PROPERTY LINES AND RIGHT-OF-WAY SHOWN ARE SOURCED FROM KING COUNTY ASSESSORS GIS DATABASE, AND ARE NOT INTENDED TO IMPLY A BOUNDARY SURVEY.

LEGEND

- MONITORING WELL
- WETLAND
- NON-KING COUNTY-OWNED PARCELS
- ROW
- PROPERTY LINE
- SURVEY
- 100Y
- 100 YR FLOODPLAIN

FILE: KCROADS 14045		7-3-14	NUM.		REVISION	BY	DATE	APPROVED: WILL MANSFIELD, P.E.		10/2014	FUNDING SOURCE No.	
SURVEYED: D. WONIO		7-2-14						PROJECT MANAGER: JON HANSEN		10/2014	PROJECT No. 1112219	
SURVEY BASE MAP: R. CLARK		7-3-14						DESIGNED: ALEX HALLENIUS, P.E.		10/2014	CONTRACT No. XXXX	
CHECKED: T. CRAY, P.L.S.		7-3-14						PAUL ADLER, C. BUTCHART, P.E.		10/2014		
			NUM.		RECORD CHANGES APPROVED	BY	DATE	T. HURLEY, L.E.G., L. O'ROLLINS		10/2014		
								CAD DESIGN: L. TRAXINGER		10/2014		

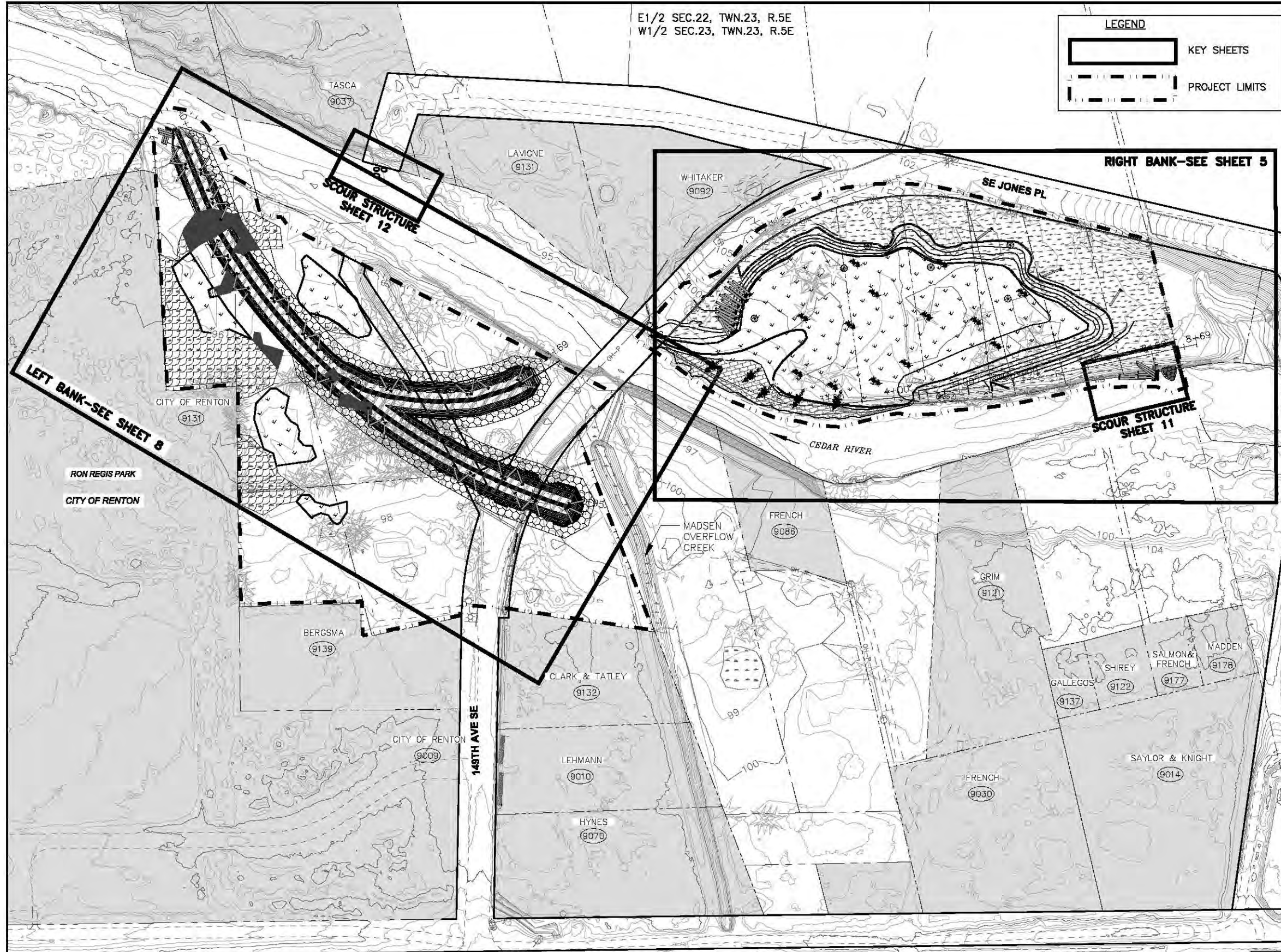
PERMIT PLANS
10/23/2014

WILLIS R. MANSFIELD
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Rural and Regional Services Section
Ecological Restoration and Engineering Services Unit
Christie True, Director

**ELLIOTT BRIDGE REACH
OFF-CHANNEL HABITAT
AND FLOODPLAIN RECONNECTION
EXISTING CONDITIONS SITE PLAN**

SHEET
3
OF
17
SHEETS
2013-12



HABITAT CREATION AREAS			
RIGHT BANK	TYPE	OBLIGATION (AC)	ACTUAL AREA (AC)
	WETLAND ESTABLISHMENT	2.11	2.11
	RIVER MARGIN HABITAT	0.19	0.21
	WETLAND BUFFER	1.97	2.11
LEFT BANK	TYPE	OBLIGATION (AC)	ACTUAL AREA (AC)
	OFF-CHANNEL HABITAT	0.62*(1)	1.00
	RIPARIAN PLANTING ZONE	N/A	0.94
	WETLAND ESTABLISHMENT	0.38*(2)	0.46
	WETLAND ENHANCEMENT	N/A	0.65
IMPACTS TO EXISTING WETLANDS			
	TYPE	AREA (AC)	
	LEFT BANK WETLAND IMPACTS	N/A	0.14

NOTES

- * INCLUDES 0.51 ACRES OBLIGATION FOR ELLIOTT PROJECT AND 0.11 ACRES OBLIGATION FOR MAY CREEK PROJECT
- * INCLUDES 0.22 ACRES OBLIGATION FOR ELLIOTT PROJECT AND 0.16 ACRES TO MITIGATE FOR WETLAND IMPACTS

CAVANNAUGH POND NATURAL AREA

CALL 2 WORKING DAYS

BEFORE YOU DIG

1-800-424-5555

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FILE: KCRoads 14045
SURVEYED: D. WONIO
SURVEY BASE MAP: R. CLARK
CHECKED: T. CRAY, P.L.S.

NUM.	REVISION	BY	DATE
1	PERMIT PLANS		
2	10/23/2014		
NUM.	RECORD CHANGES APPROVED	BY	DATE
1			

APPROVED: WILL MANSFIELD, P.E.
PROJECT MANAGER: JON HANSEN
DESIGNED: ALEX HALLENIUS, P.E.
PAUL ADLER, C. BUTCHART, P.E.
T. HURLEY, L.E.G., L. O'ROLLINS
CAD DESIGN: L. TRAXINGER

10/2014
10/2014
10/2014
10/2014
10/2014
10/2014

FUNDING SOURCE No.
PROJECT No. 1112219
CONTRACT No. XXXX





King County
Department of Natural Resources and Parks
Water and Land Resources Division
Rural and Regional Services Section
Ecological Restoration
and Engineering Services Unit
Christie True, Director

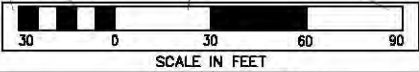
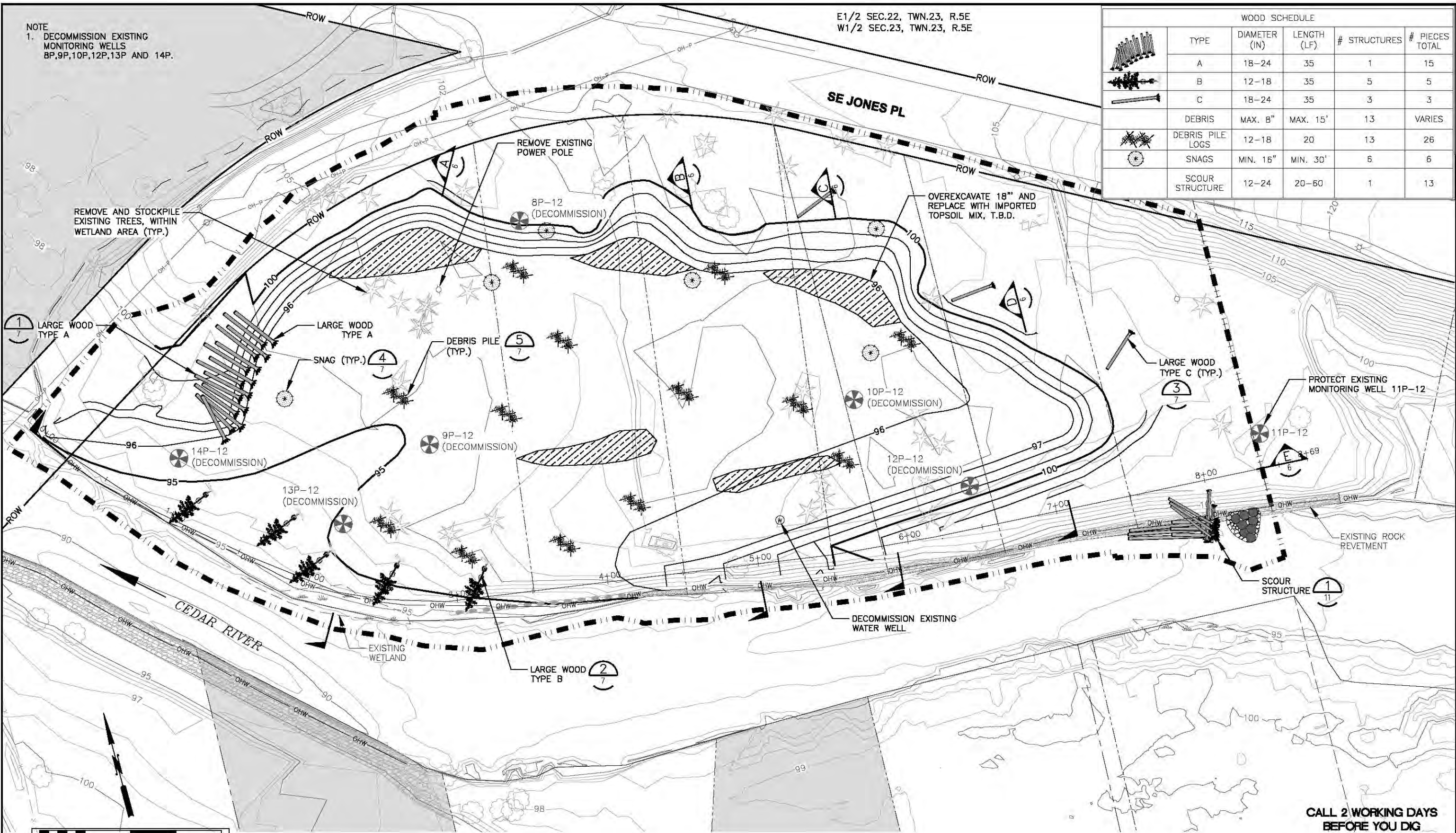
**ELLIOTT BRIDGE REACH
OFF-CHANNEL HABITAT
AND FLOODPLAIN RECONNECTION**
KEY PLAN

SHEET
4
OF
17
SHEETS
2013-12

NOTE
1. DECOMMISSION EXISTING
MONITORING WELLS
8P,9P,10P,12P,13P AND 14P.


E1/2 SEC.22, TWN.23, R.5E
W1/2 SEC.23, TWN.23, R.5E

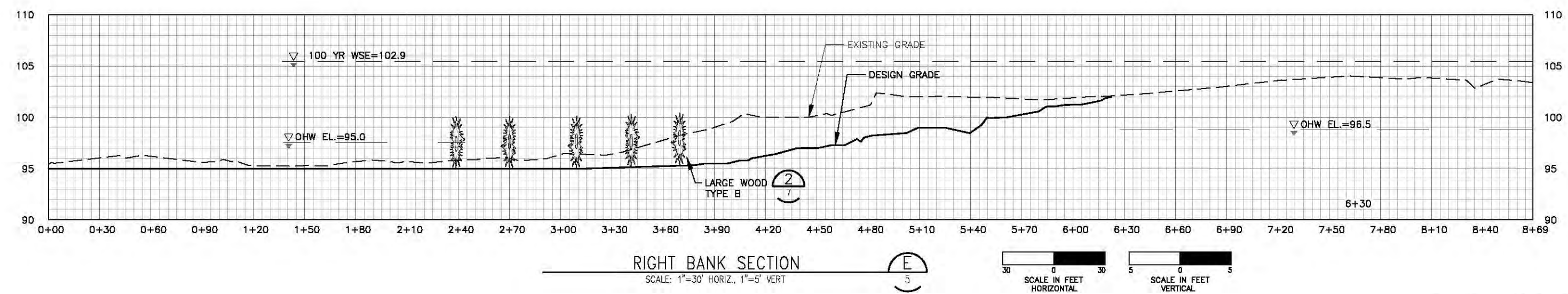
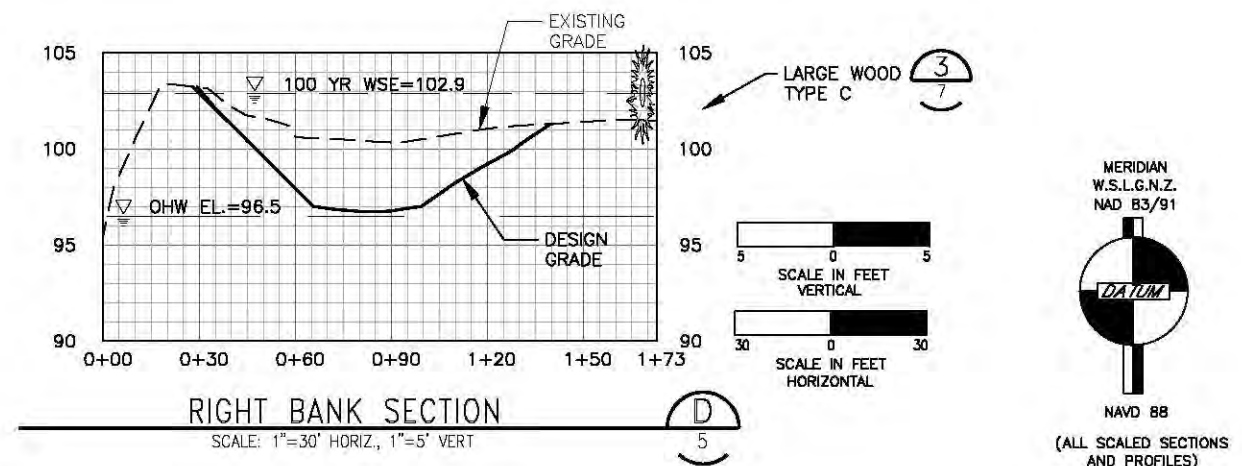
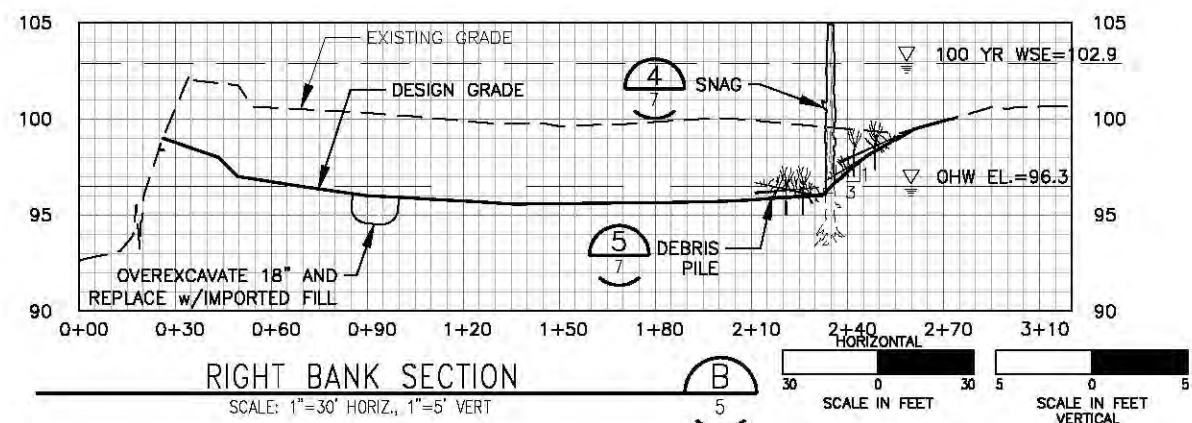
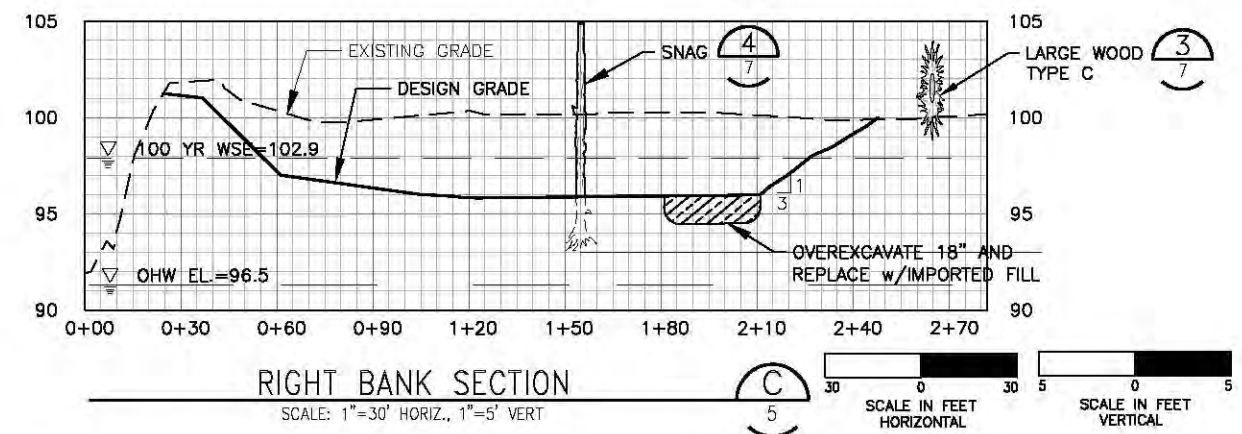
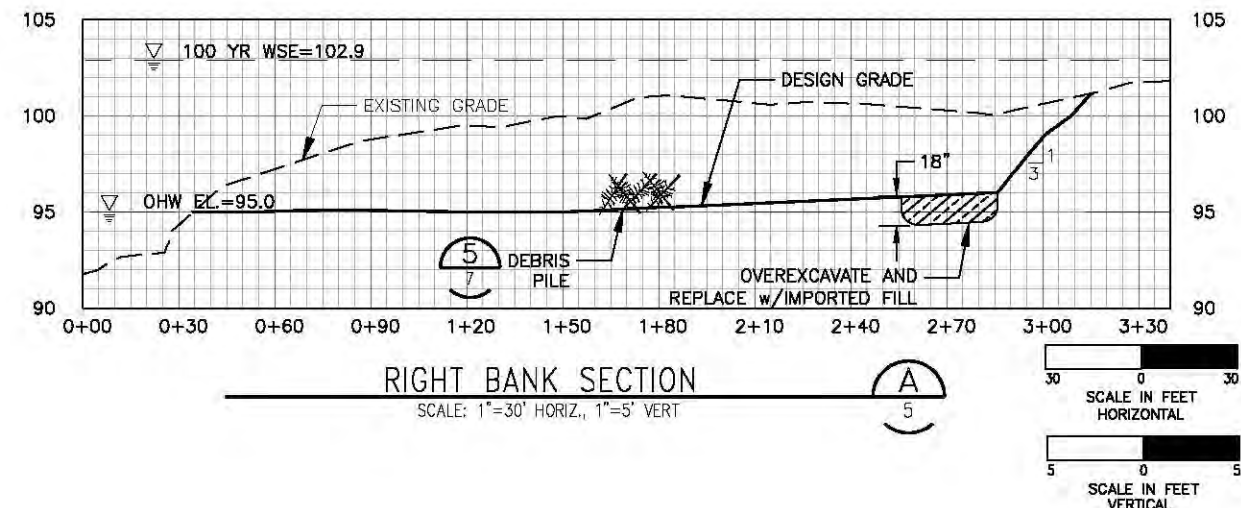
WOOD SCHEDULE					
	TYPE	DIAMETER (IN)	LENGTH (LF)	# STRUCTURES	# PIECES TOTAL
	A	18-24	35	1	15
	B	12-18	35	5	5
	C	18-24	35	3	3
	DEBRIS	MAX. 8"	MAX. 15'	13	VARIES
	DEBRIS PILE LOGS	12-18	20	13	26
	SNAGS	MIN. 16"	MIN. 30'	6	6
	SCOUR STRUCTURE	12-24	20-60	1	13



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(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

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	SURVEYED: D. WONIO			7-2-14	PROJECT MANAGER: JON HANSEN						10/2014
	SURVEY BASE MAP: R. CLARK			7-3-14	DESIGNED: ALEX HALLENIUS, P.E.						10/2014
	CHECKED: T. CRAY, P.L.S.			7-3-14	PAUL ADLER, C. BUTCHART, P.E.						10/2014
					T. HURLEY, L.E.G., L. O'ROLLINS						10/2014
		NUM. RECORD CHANGES APPROVED	BY DATE	CAD DESIGN: L. TRAXINGER	10/2014					2013-12	



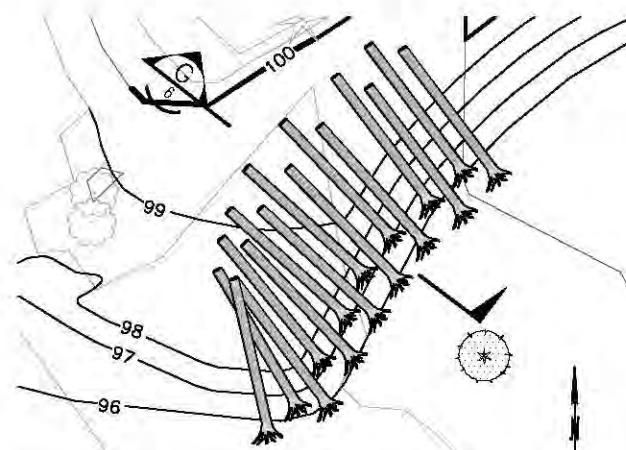
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	7-3-14						PAUL ADLER, C. BUTCHART, P.E.	10/2014		
			NUM.	RECORD CHANGES APPROVED	BY	DATE	T. HURLEY, L.E.G., L. O'ROLLINS	10/2014		
							CAD DESIGN: L. TRAXINGER	10/2014		

King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 Rural and Regional Services Section
 Ecological Restoration and Engineering Services Unit
 Christa True, Director

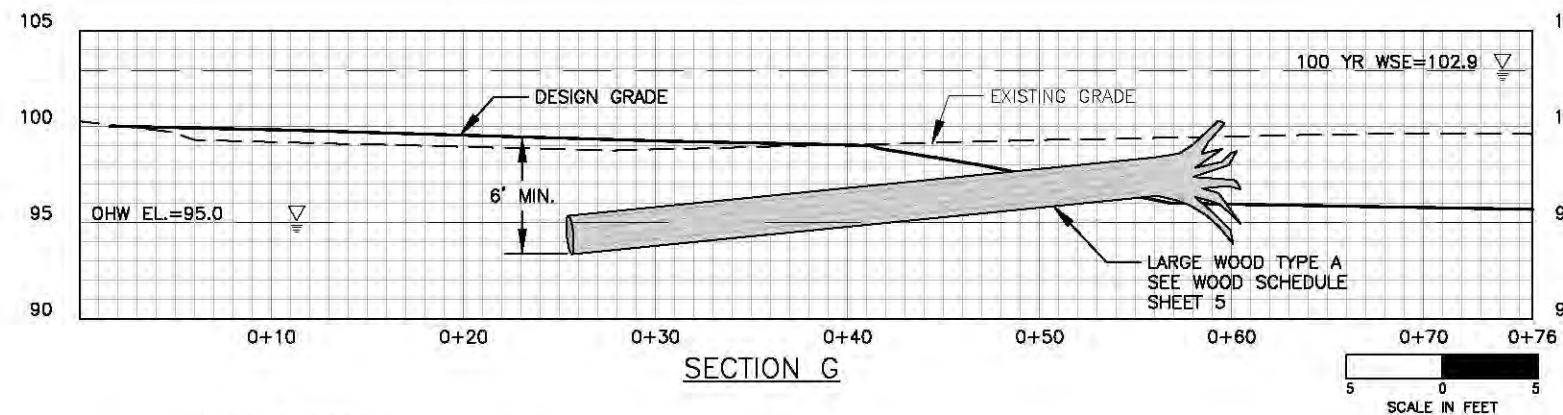
**ELLIOTT BRIDGE REACH
OFF-CHANNEL HABITAT
AND FLOODPLAIN RECONNECTION**
 RIGHT BANK - SECTIONS

SHEET
6
 OF
17
 SHEETS
2013-12



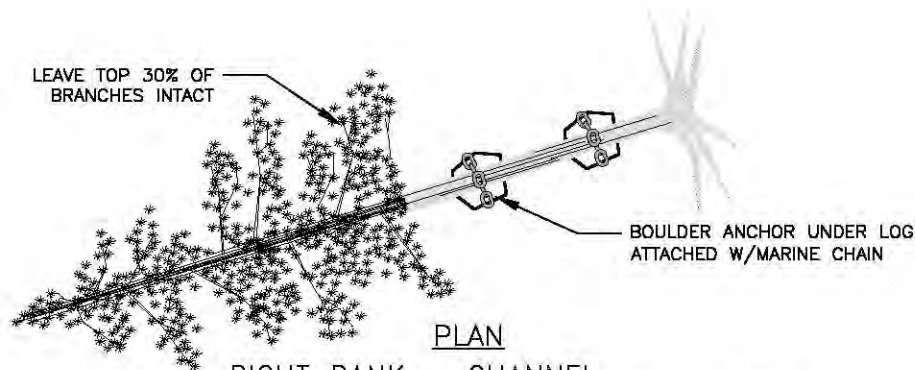
PLAN

SCALE IN FEET
20 0 20



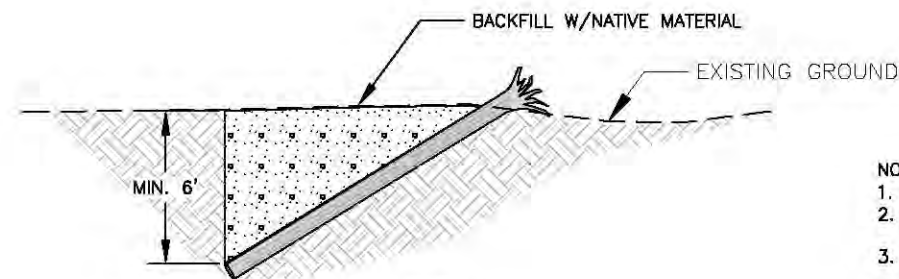
RIGHT BANK
LARGE WOOD DETAIL - TYPE A
SCALE VARIES

1
5



RIGHT BANK - CHANNEL
LARGE WOOD DETAIL - TYPE B
NOT TO SCALE

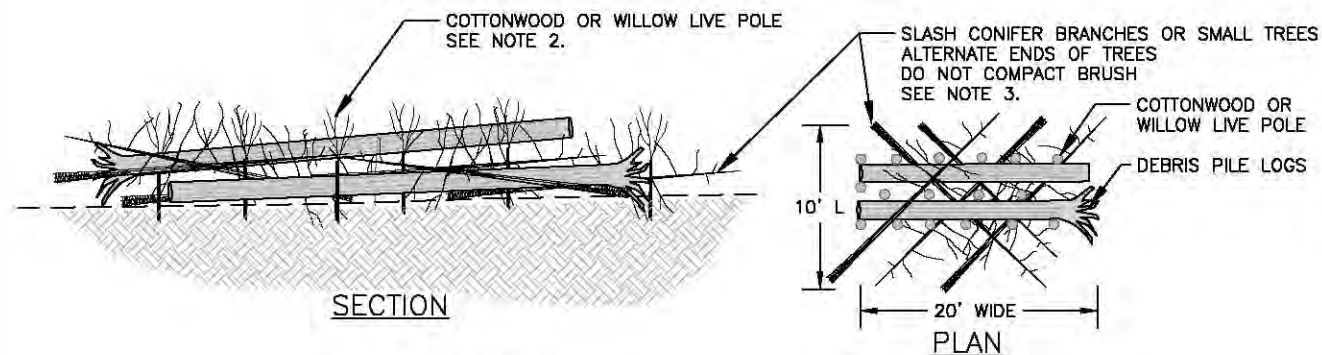
2
5



SECTION
RIGHT BANK - CHANNEL
LARGE WOOD DETAIL - TYPE C
NOT TO SCALE

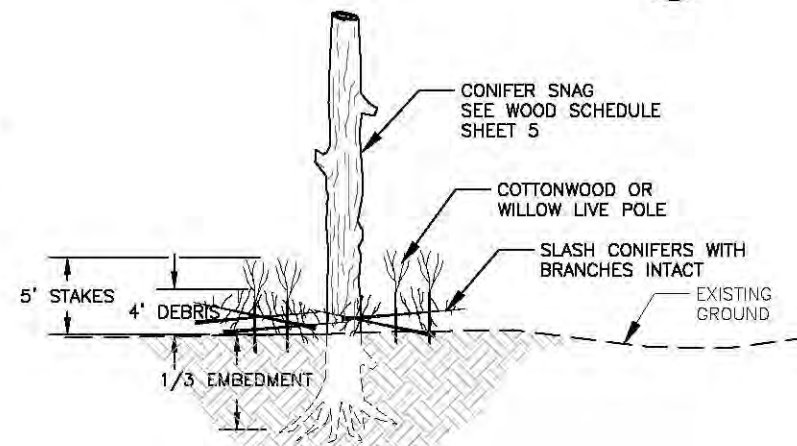
3
5

- NOTES:
1. EMBED SNAGS 1/3 OF TOTAL LENGTH, WITH OR WITHOUT ROOTBALL.
 2. DEBRIS PILE COTTONWOOD OR WILLOW LIVE POLES WILL BE 3"-5" DIAM. 7' TALL, WITH 2' EMBEDMENT, AT 3' O.C..
 3. SLASH CONSISTS OF CONIFER TREE TOPS WITH BRANCHES AND SMALL LOGS MAX. 15'L, LESS THAN 8" DIAM. SLASH PILE IS APPROXIMATELY 8'Lx15'Wx4'H.
 4. SNAG WILLOW LIVE POLES WILL BE 1 1/2"-3" DIAM., 7' TALL, WITH 2' EMBEDMENT, AT 3' O.C.
 5. USE WILLOW IN SCRUB-SHRUB PLANTING AREAS.
 6. USE COTTONWOOD IN FORESTED PLANTING AREAS.



RIGHT BANK
DEBRIS PILE - PLAN AND SECTION
NOT TO SCALE

5
5

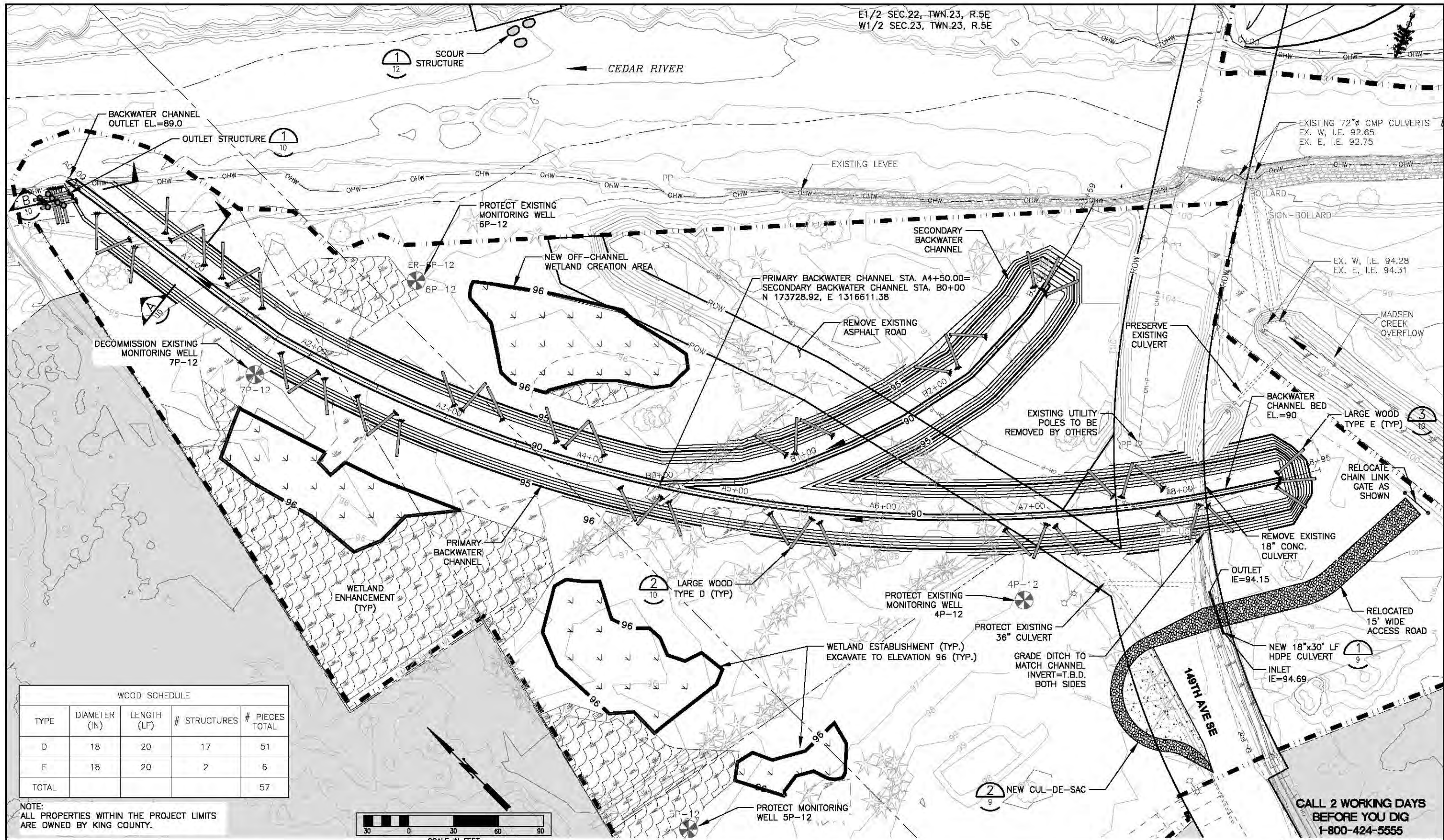


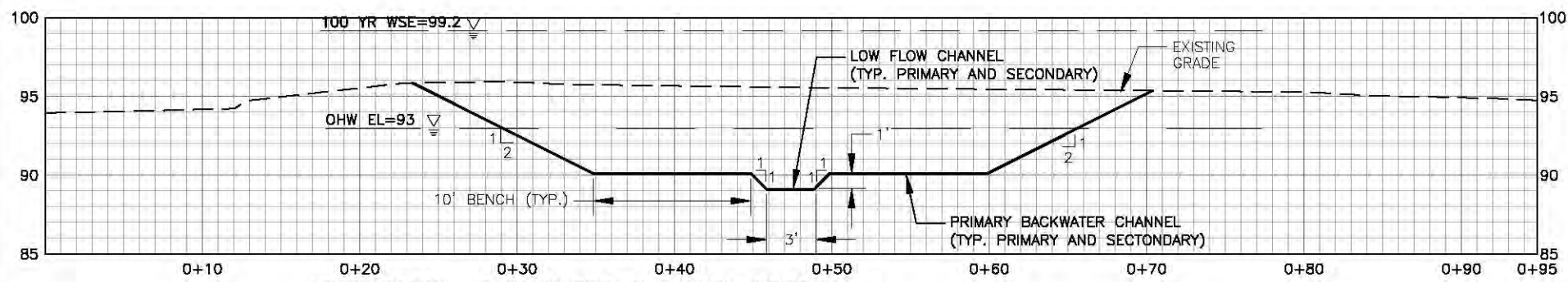
RIGHT BANK
SNAG DETAIL
NOT TO SCALE

4
5

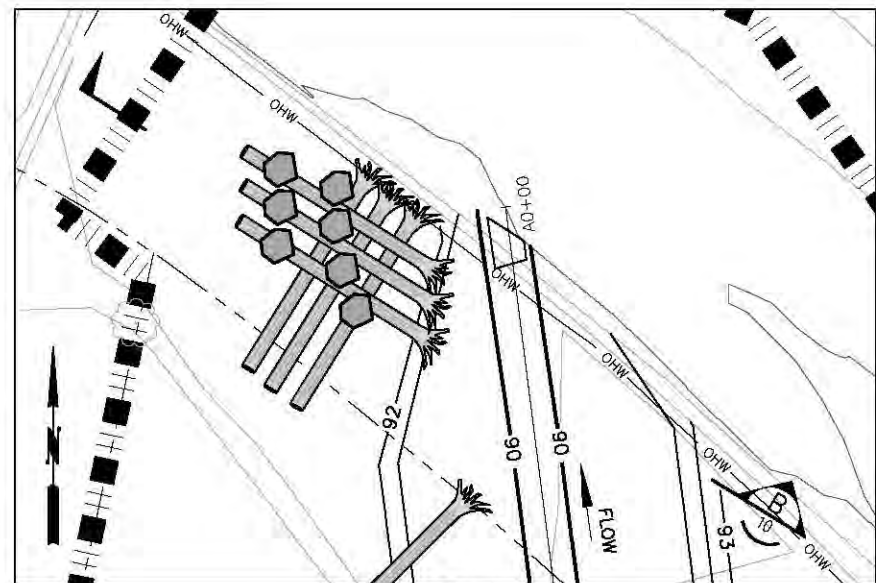
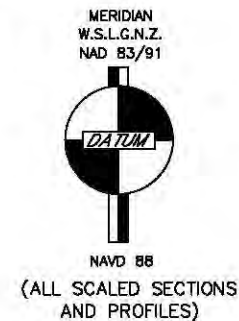
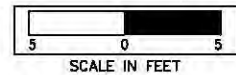
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(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

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	7-2-14					PROJECT MANAGER: JON HANSEN	10/2014	SOURCE No.					
	7-3-14					DESIGNED: ALEX HALLENIUS, P.E.	10/2014	PROJECT No.	1112219				
	7-3-14					PAUL ADLER, C. BUTCHART, P.E.	10/2014	CONTRACT No.	XXXX				
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		NUM.	RECORD CHANGES APPROVED	BY	DATE	CAD DESIGN: L. TRAXINGER	10/2014						

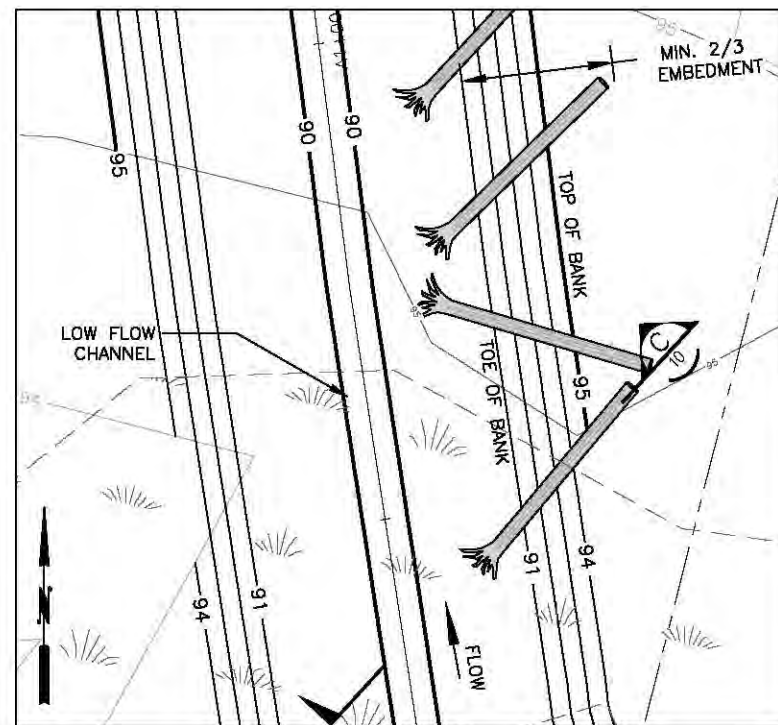
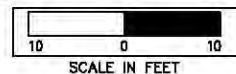




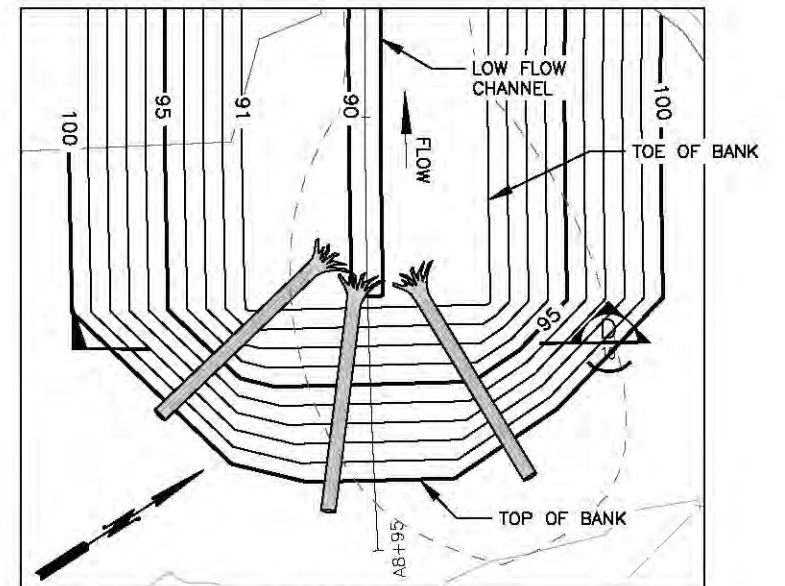
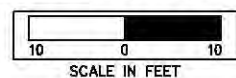
LEFT BANK- BACKWATER CHANNEL SECTION
LOW FLOW CHANNEL w/BENCH (TYP.)



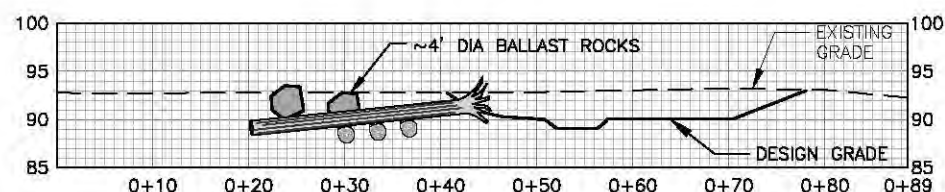
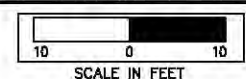
LEFT BANK
OUTLET STRUCTURE



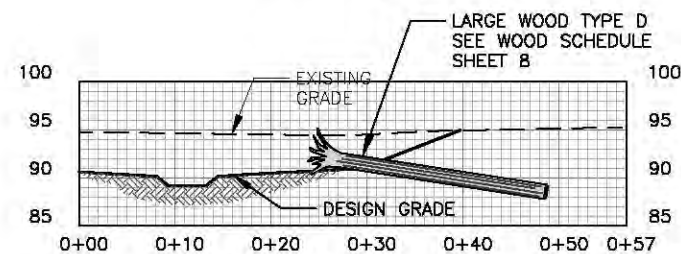
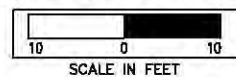
LEFT BANK
LARGE WOOD DETAIL PLAN - TYPE D



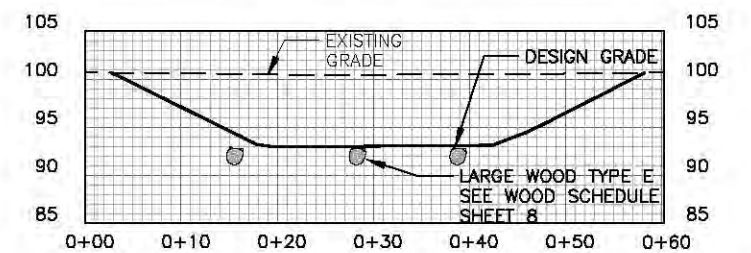
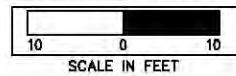
LEFT BANK
LARGE WOOD DETAIL PLAN - TYPE E



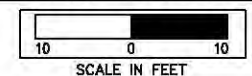
WOOD SECTION



WOOD SECTION



WOOD SECTION



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(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FILE: KROADS 14045
SURVEYED: D. WONIO
SURVEY BASE MAP: R. CLARK
CHECKED: T. CRAY, P.L.S.

NUM.	REVISION	BY	DATE
7-3-14	PERMIT PLANS		
7-2-14	10/23/2014		
7-3-14			
7-3-14			
NUM.	RECORD CHANGES APPROVED	BY	DATE

APPROVED: WILL MANSFIELD, P.E.
PROJECT MANAGER: JON HANSEN
DESIGNED: ALEX HALLENIUS, P.E.
PAUL ADLER, C. BUTCHART, P.E.
T. HURLEY, L.E.G., L. O'ROLLINS
CAD DESIGN: L. TRAXINGER

10/2014
10/2014
10/2014
10/2014
10/2014
10/2014

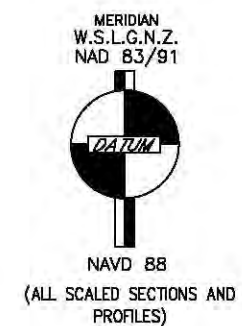
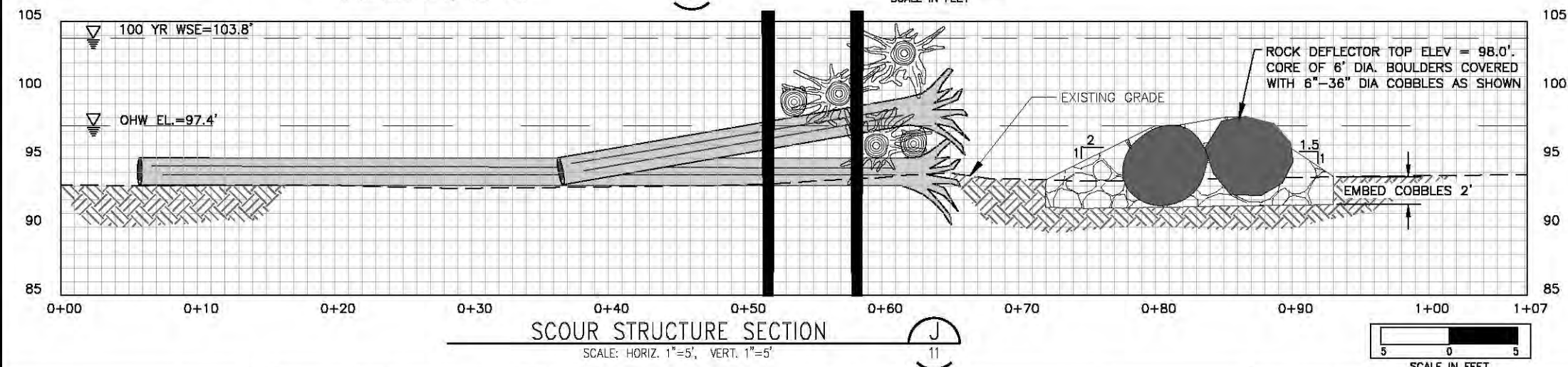
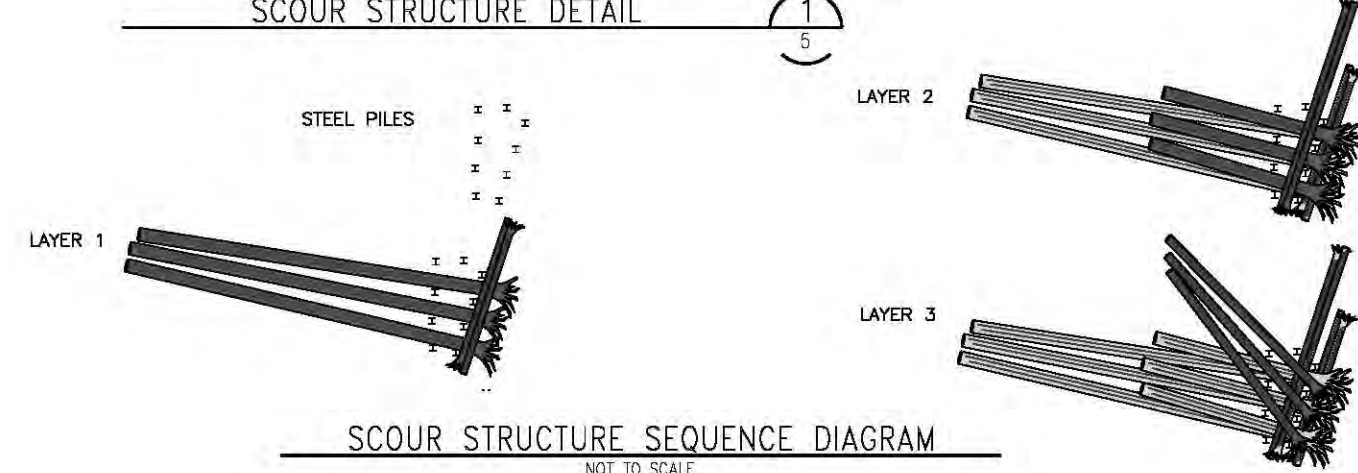
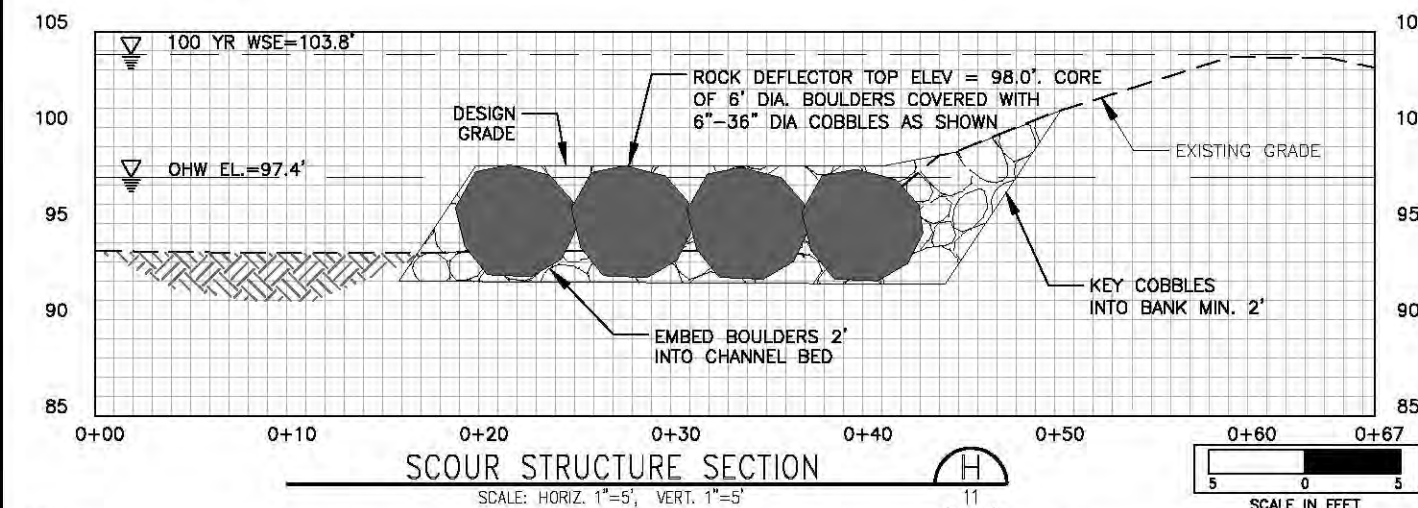
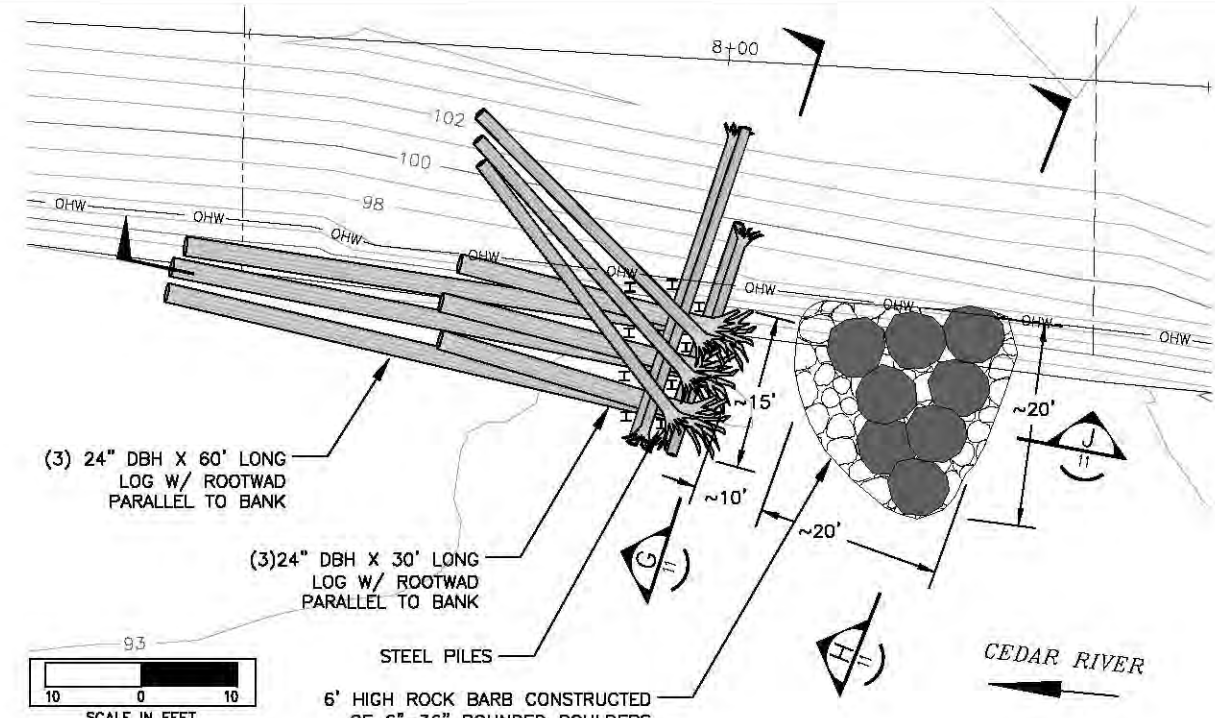
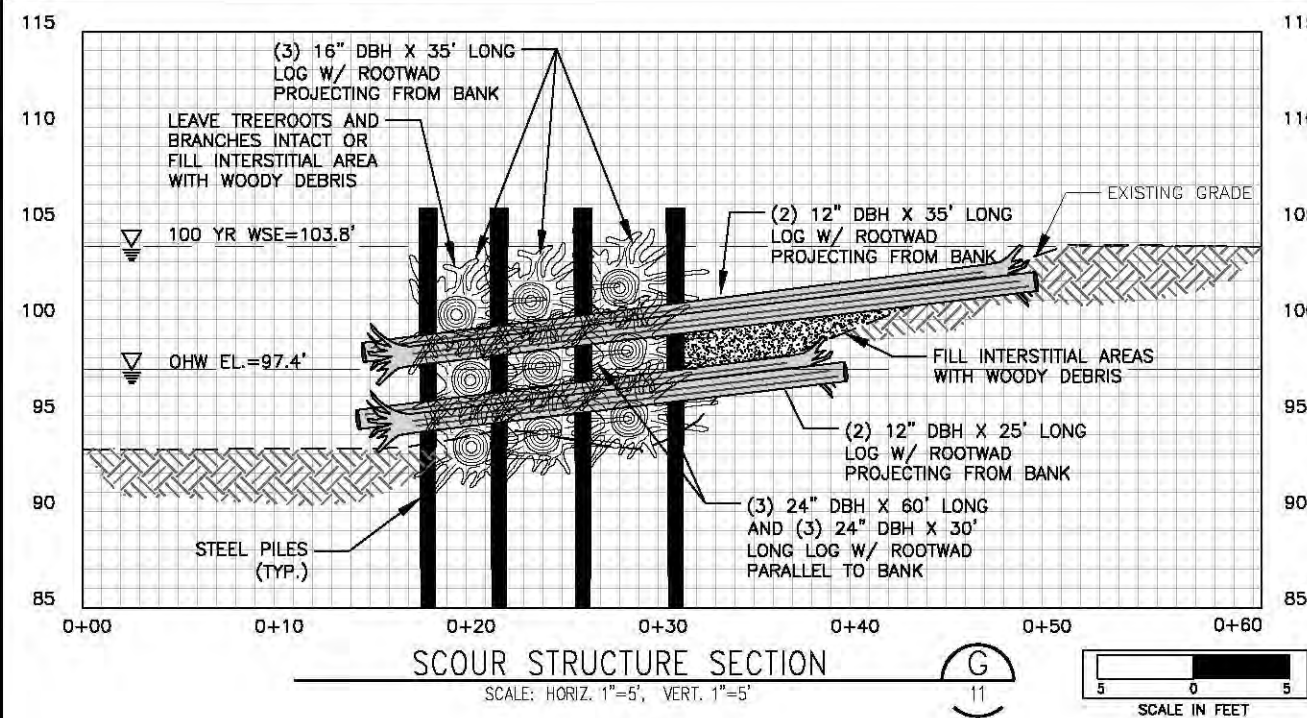
FUNDING
SOURCE No.
PROJECT No. 1112219
CONTRACT No. XXXX



King County
Department of Natural Resources and Parks
Water and Land Resources Division
Rural and Regional Services Section
Ecological Restoration
and Engineering Services Unit
Christie True, Director

**ELLIOTT BRIDGE REACH
OFF-CHANNEL HABITAT
AND FLOODPLAIN RECONNECTION**
**LEFT BANK BACKWATER CHANNELS
SECTIONS AND LARGE WOOD DETAILS**

SHEET
10
OF
17
SHEETS
2013-12



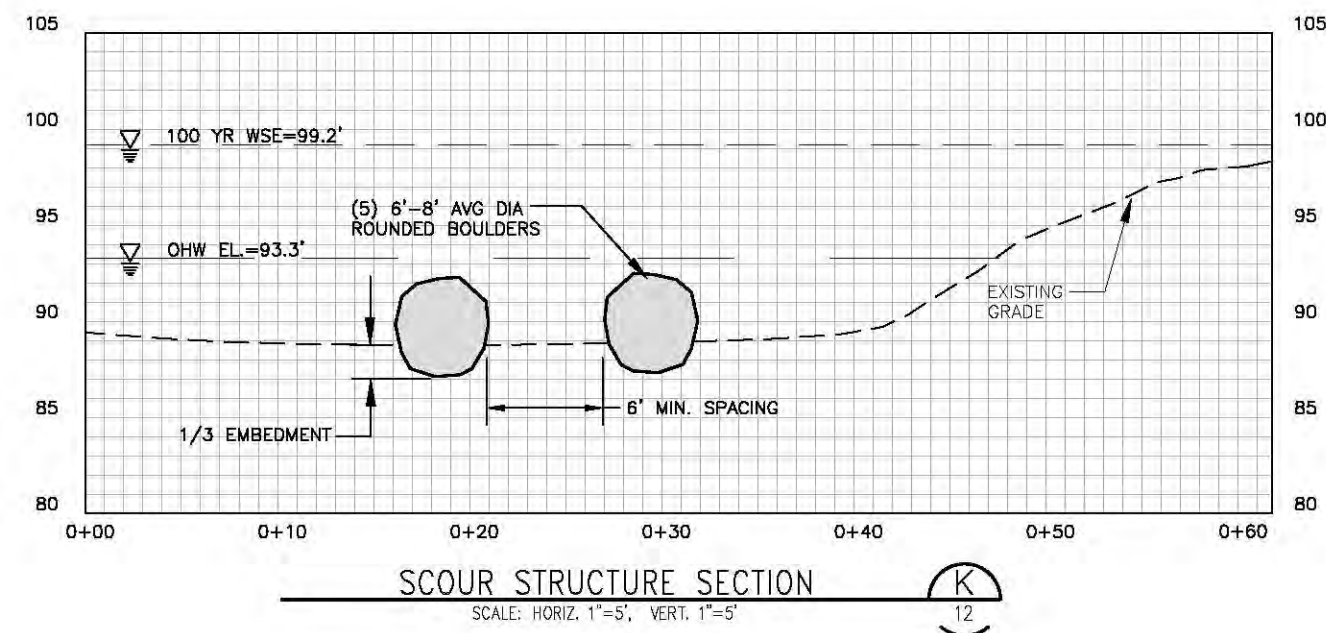
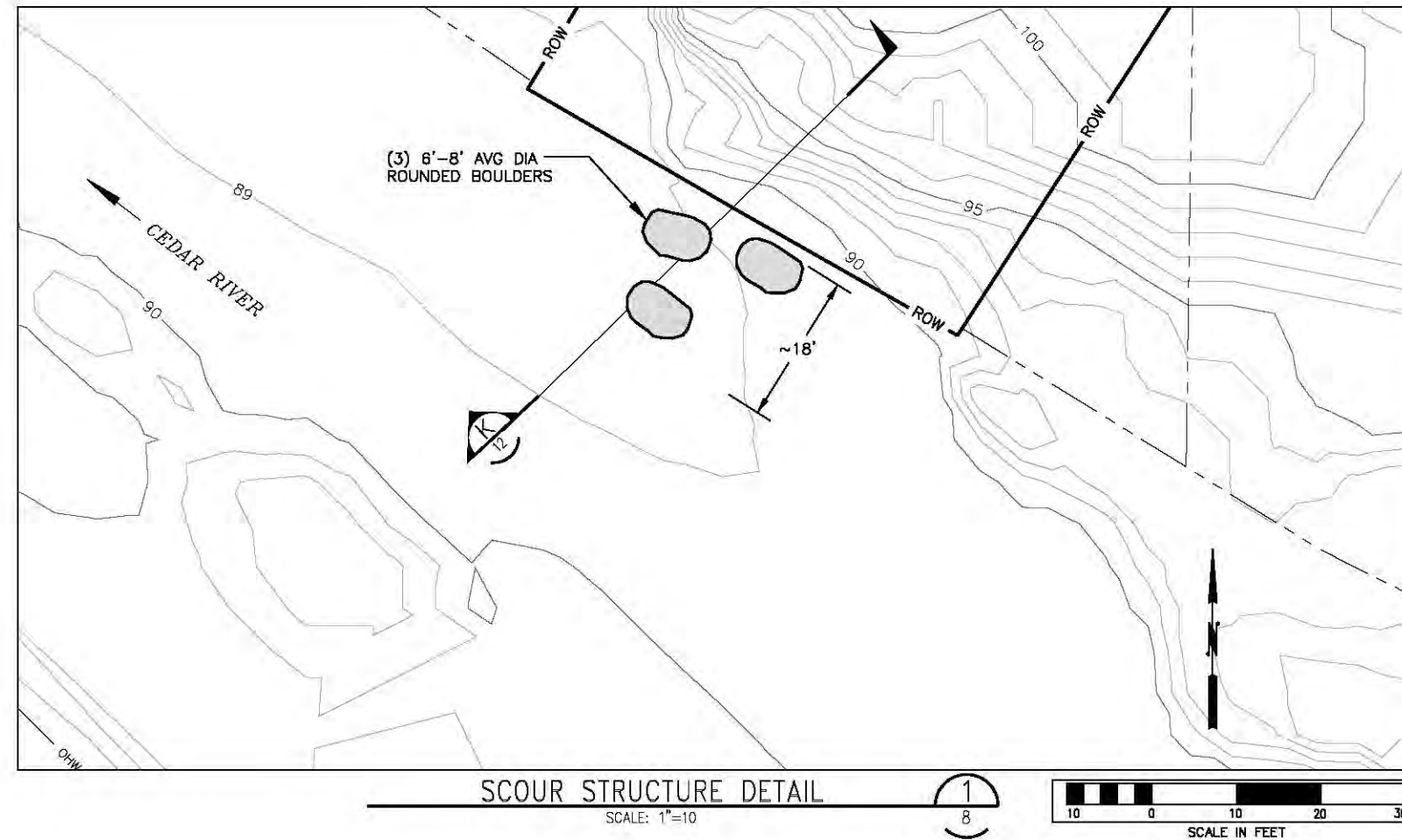
CALL 2 WORKING DAYS
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(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FILE: KCRoads 14045 SURVEYED: D. WONIO SURVEY BASE MAP: R. CLARK CHECKED: T. CRAY, P.L.S.	7-3-14	PERMIT PLANS 10/23/2014	NUM.	REVISION	BY	DATE	APPROVED: WILL MANSFIELD, P.E.	10/2014	FUNDING SOURCE No.	
	7-2-14						PROJECT MANAGER: JON HANSEN	10/2014	PROJECT No. 1112219	
	7-3-14						DESIGNED: ALEX HALLENIUS, P.E.	10/2014	CONTRACT No. XXXX	
	7-3-14						PAUL ADLER, C. BUTCHART, P.E.	10/2014		
			NUM.	RECORD CHANGES APPROVED	BY	DATE	T. HURLEY, L.E.G., L. O'ROLLINS	10/2014		
							CAD DESIGN: L. TRAXINGER	10/2014		



King County
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 Water and Land Resources Division
 Rural and Regional Services Section
 Ecological Restoration and Engineering Services Unit
 Christie True, Director

**ELLIOTT BRIDGE REACH
OFF-CHANNEL HABITAT
AND FLOODPLAIN RECONNECTION**
 SCOUR STRUCTURE DETAILS AND SECTIONS

SHEET
11
 OF
17
 SHEETS
2013-12

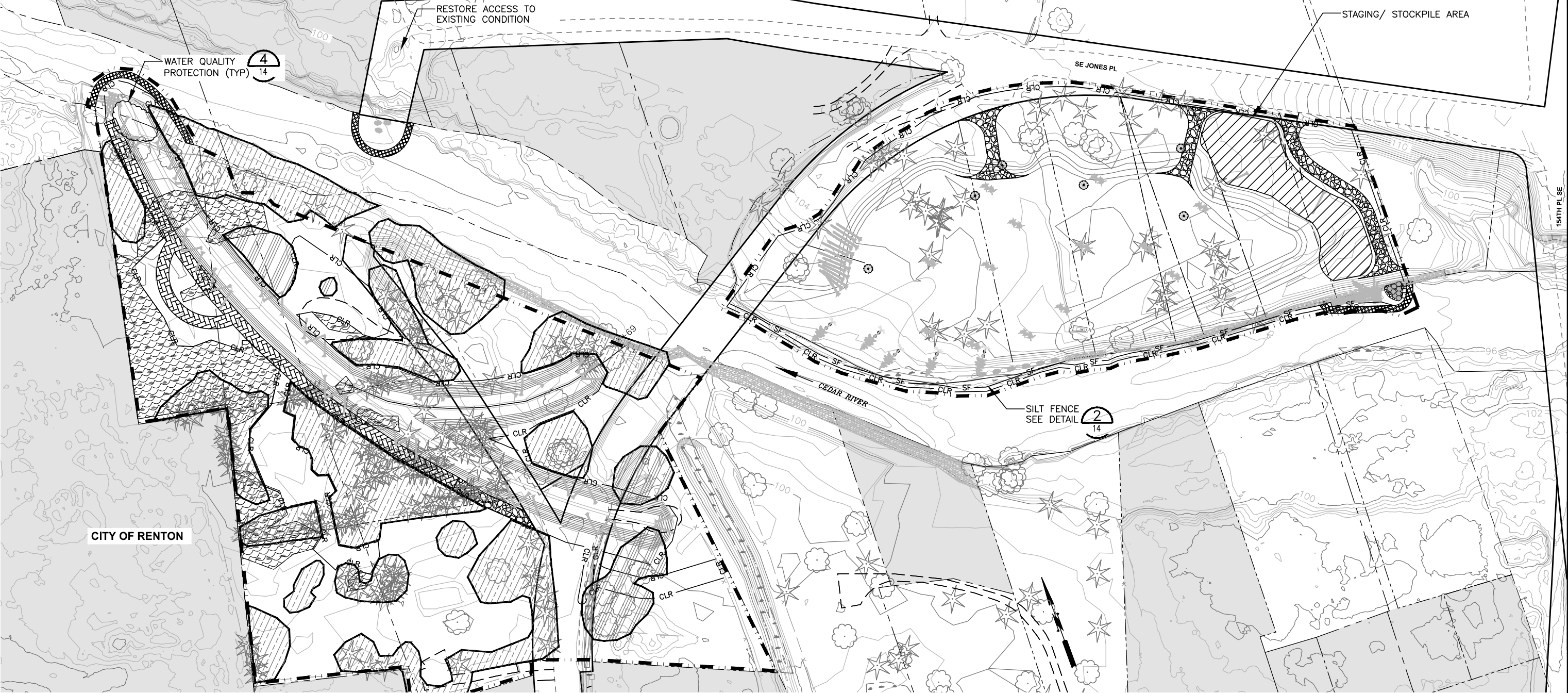


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FILE: KROADS 14045 SURVEYED: D. WONIO SURVEY BASE MAP: R. CLARK CHECKED: T. CRAY, P.L.S.	7-3-14	NUM.	REVISION	BY	DATE	APPROVED: WILL MANSFIELD, P.E.	10/2014	FUNDING			 King County Department of Natural Resources and Parks Water and Land Resources Division Rural and Regional Services Section Ecological Restoration and Engineering Services Unit Christie True, Director	ELLIOTT BRIDGE REACH OFF-CHANNEL HABITAT AND FLOODPLAIN RECONNECTION ALTERNATIVE SCOUR STRUCTURE DETAIL AND SECTION	SHEET 12 OF 17 SHEETS 2013-12
	7-2-14					PROJECT MANAGER: JON HANSEN	10/2014	SOURCE No.					
	7-3-14					DESIGNED: ALEX HALLENIUS, P.E.	10/2014	PROJECT No.	1112219				
	7-3-14					PAUL ADLER, C. BUTCHART, P.E.	10/2014	CONTRACT No.	XXXX				
						T. HURLEY, L.E.G., L. O'ROLLINS	10/2014						
						CAD DESIGN: L. TRAXINGER	10/2014						
		NUM.	RECORD CHANGES APPROVED	BY	DATE								

PERMIT PLANS
10/23/2014






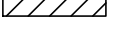
E1/2 SEC.22, TWN.23, R.5E
W1/2 SEC.23, TWN.23, R.5E

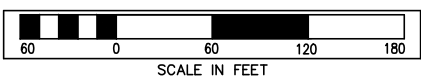


TEMPORARY EROSION AND SEDIMENT CONTROL NOTES :
THE ESC FACILITIES MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES,AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS. (KCC 9.04.020 AA, KCRS 7.09 D).

ALL WORK SHALL COMPLY WITH THE WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE HYDRAULIC PERMIT APPROVAL CONDITIONS.

ALL DISTURBED AREAS SHALL BE MULCHED AND SEEDED. ALL DISTURBED AREAS ON STEEP SLOPES SHALL BE SEEDED THEN COVERED AND STAKED IN PLACE WITH COIR FABRIC.

-  CONSTRUCTION ACCESS
SEE DETAIL 1/14
-  TREE PROTECTION ZONES—
NO CLEARING OR GRADING
(TO BE FLAGGED BY OWNER)
-  CONSTRUCTION ACCESS
W/ HOG FUEL
-  PRESERVE LARGE TREES ≥6" DBH
IF POSSIBLE (TO BE FLAGGED BY
OWNER)
-  COFFER DAM
SEE DETAIL 5/14
-  STAGING/STOCKPILE AREA



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(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FILE: KROADS 14045
SURVEYED: D. WONIO
SURVEY BASE MAP: R. CLARK
CHECKED: T. CRAY, P.L.S.

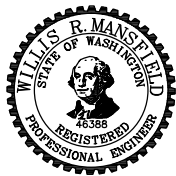
NUM.	REVISION	BY	DATE
7-3-14			
7-2-14			
7-3-14			
7-3-14			
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PERMIT PLANS
10/23/2014

APPROVED: WILL MANSFIELD, P.E.
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10/2014
10/2014
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FUNDING
SOURCE No.
PROJECT No. 1112219
CONTRACT No. XXXX

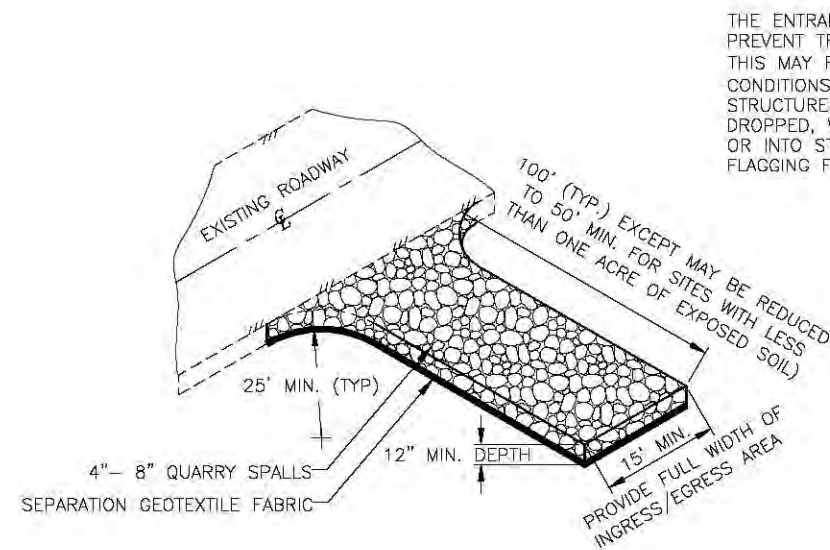


King County
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Water and Land Resources Division
Rural and Regional Services Section
Ecological Restoration
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Christie True, Director

**ELLIOTT BRIDGE REACH
OFF-CHANNEL HABITAT
AND FLOODPLAIN RECONNECTION**
TESC PLAN

SHEET
13
OF
17
SHEETS

2013-12



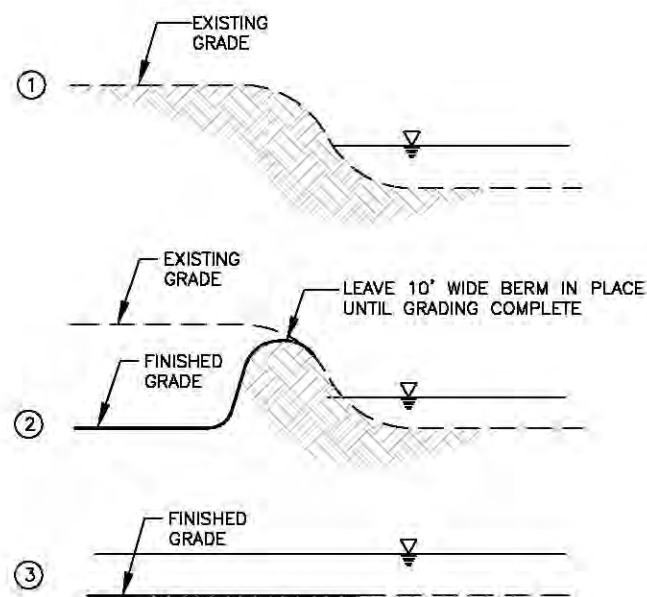
TEMPORARY CONSTRUCTION ACCESS

NTS

1
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THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2" STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. PROVIDE FLAGGING FOR CONSTRUCTION VEHICLES ENTERING AND LEAVING SITE.

NOTE: A 30' WIDE ROAD MAY BE REQUIRED WHERE A TRUCK WASHER IS LOCATED.

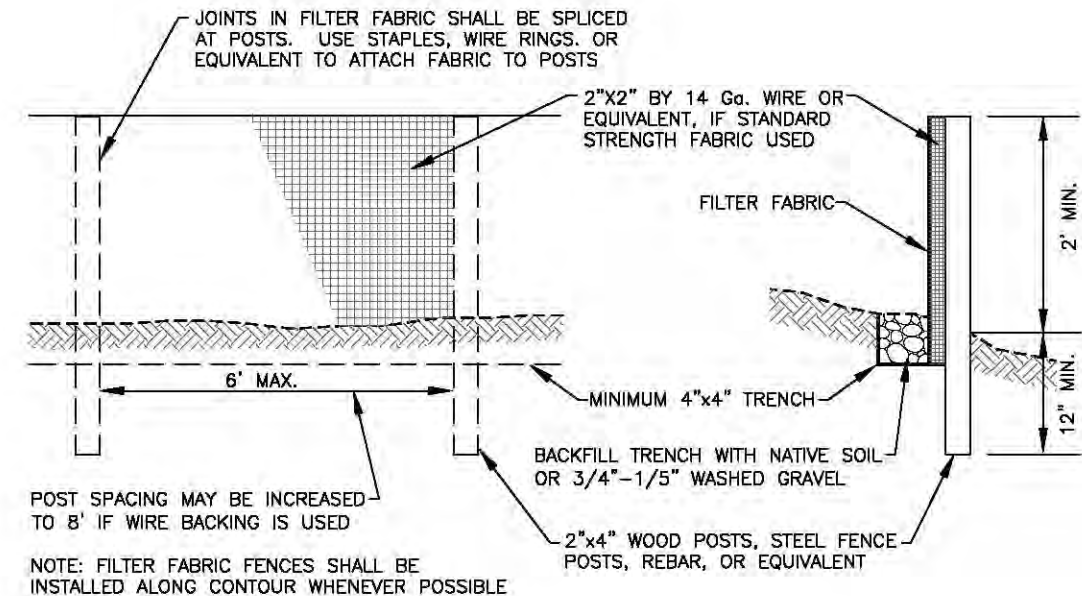


CONSTRUCTION SEQUENCE

NOT TO SCALE

3
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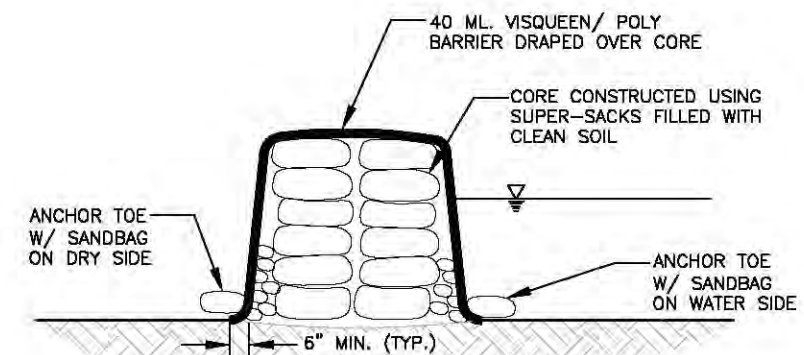
CONSTRUCTION SEQUENCE NOTES:
MAINTAIN MINIMUM 10' TEMPORARY BERM BETWEEN PRIMARY CHANNEL AND CEDAR RIVER THROUGHOUT CONSTRUCTION. REMOVE BERM ONLY DURING FISH WINDOW AND WHEN WATER QUALITY PROTECTION MEASURES ARE IN PLACE AND APPROVED BY OWNER.



SILT FENCE DETAIL

NTS

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WATER QUALITY PROTECTION EXAMPLE

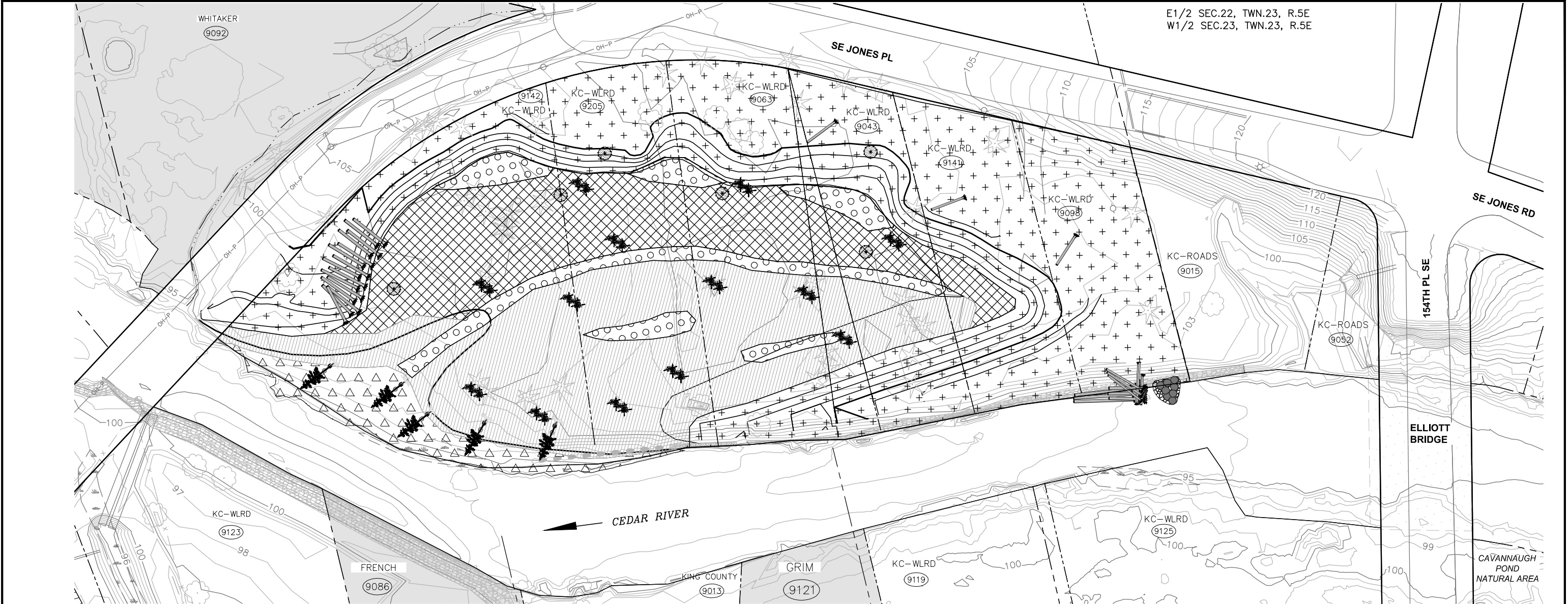
NOT TO SCALE

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13

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FILE: KROADS 14045		7-3-14	NUM.		REVISION		BY	DATE	APPROVED: WILL MANSFIELD, P.E.	10/2014	FUNDING SOURCE No. _____			ELLIOTT BRIDGE REACH OFF-CHANNEL HABITAT AND FLOODPLAIN RECONNECTION	TESC DETAILS AND SEQUENCE	SHEET 14 OF 17 SHEETS		
SURVEYED: D. WONIO		7-2-14							PROJECT MANAGER: JON HANSEN	10/2014							PROJECT No. 1112219	
SURVEY BASE MAP: R. CLARK		7-3-14							DESIGNED: ALEX HALLENIUS, P.E.	10/2014								CONTRACT No. XXXX
CHECKED: T. CRAY, P.L.S.		7-3-14							PAUL ADLER, C. BUTCHART, P.E.	10/2014								
									T. HURLEY, L.E.G., L. O'ROLLINS	10/2014								
									CAD DESIGN: L. TRAXINGER	10/2014								
			NUM.		RECORD CHANGES APPROVED		BY	DATE										
																2013-12		

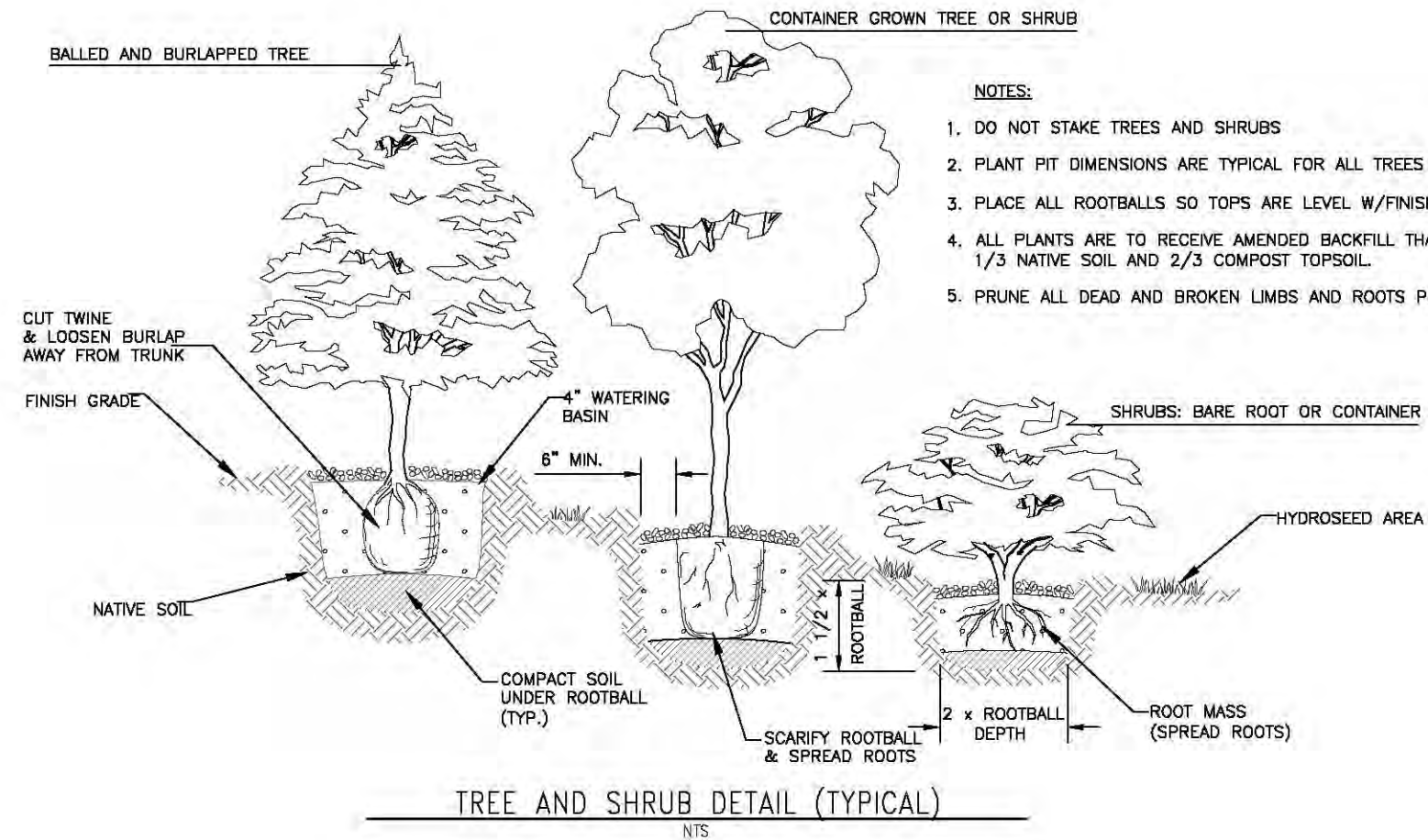


RIGHT BANK PLANTING PLAN										
Symbol	Scientific Name:	Common Name	Condition	Spacing	Percent Coverage	Symbol	Scientific Name:	Common Name	Condition	Percent Coverage
Upland Buffer 2.11 ACRES	<i>Populus trichocarpa</i>	Black Cottonwood	Potted, Live poles	10-12' o.c.	30	Scrub-Shrub 1.11 ACRES	<i>Salix stichensis</i>	Sitka Willow	Live stakes	40
	<i>Acer macrophyllum</i>	Big Leaf Maple	Potted	10-12' o.c.	20		<i>Rosa nutkana</i>	Nootka Rose	Potted, Bareroot	15
	<i>Physocarpus capitatus</i>	Pacific Ninebark	Potted	3-4' o.c.	15		<i>Rosa Gymnocarpa</i>	Baldhip Rose	Potted, Bareroot	10
	<i>Symphoricarpos albus</i>	Snowberry	Potted	3-4' o.c.	15		<i>Salix ludcia</i>	Pacific Willow	Live stakes	10
	<i>Crataegus douglasii</i>	Douglas Hawthorne	Potted	10-12' o.c.	10		<i>Lonicera involucrata</i>	Black Twinberry	Potted, Bareroot	10
	<i>Pseudotsuga menziesii</i>	Doug Fir	Potted	10-12' o.c.	5		<i>Cornus sericea</i>	Red-Osier Dogwood	Potted, Bareroot	5
Forested 0.74 ACRES	<i>Thuja plicata</i>	Western Red Cedar	Potted	10-12' o.c.	5	Emergent 0.26 ACRES	<i>Corylus cornuta californica</i>	Western Hazelnut	Potted, Bareroot	5
	<i>Populus trichocarpa</i>	Black Cottonwood	Potted, Live poles	10-12' o.c.	20		<i>Physocarpus capitatus</i>	Pacific Ninebark	Potted, Bareroot	5
	<i>Salix ludcia</i>	Pacific Willow	Live stakes	10-12' o.c.	20		<i>Scirpus microcarpus</i>	Small-Fruited Bulrush	Division, Plug	30
	<i>Salix stichensis</i>	Sitka Willow	Live stakes	3-4' o.c.	20		<i>Eleocharis palustris</i>	creeping spikerush	Division, Plug	30
	<i>Picea stichensis</i>	Sitka Spruce	Potted	10-12' o.c.	10		<i>Carex obnupta</i>	slough sedge	Division, Plug	10
	<i>Rosa nutkana</i>	Nootka Rose	Potted	3-4' o.c.	10		<i>Schoenoplectus acutus</i>	hardstem bulrush	Division, Plug	10
	<i>Thuja plicata</i>	Western Red Cedar	Potted	10-12' o.c.	5		<i>Juncus articulatus</i>	jointed rush	Division, Plug	10
	<i>Crataegus douglasii</i>	Black Hawthorne	Potted	10-12' o.c.	5		<i>Sparganium emersum</i>	Simple-Stem Burreed	Division, Plug	10
	<i>Fraxinus latifolia</i>	Oregon Ash	Potted	10-12' o.c.	5					
	<i>Corylus cornuta californica</i>	Western Hazelnut	Potted	3-4' o.c.	5					
River Margin 0.21 ACRES	<i>Salix stichensis</i>	Sitka Willow	Live stakes	3-4' o.c.	20					
	<i>Scirpus microcarpus</i>	Small-Fruited Bulrush	Division, Plug	12-18" o.c.	5					
	<i>Juncus articulatus</i>	jointed rush	Division, Plug	12-18" o.c.	5					


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SURVEYED: D. WONIO	7-2-14					PROJECT MANAGER: JON HANSEN	10/2014	PROJECT No. 1112219				
SURVEY BASE MAP: R. CLARK	7-3-14					PLANTING DESIGN: PAUL ADLER	10/2014	CONTRACT No. XXXX				
CHECKED: T. CRAY, P.L.S.	7-3-14					LAIRD O'ROLLINS	10/2014					
		NUM.	RECORD CHANGES APPROVED	BY	DATE	CAD DESIGN: L. TRAXINGER	10/2014					

PERMIT PLANS
10/23/2014



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	7-2-14	<div>PERMIT PLANS</div> <div>10/23/2014</div>				PROJECT MANAGER: JON HANSEN	10/2014	PROJECT No. 1112219				
	7-3-14					PLANTING DESIGN: PAUL ADLER	10/2014	CONTRACT No. XXXX				
	7-3-14					LAIRD O'ROLLINS	10/2014					
		NUM.	RECORD CHANGES APPROVED	BY	DATE	CAD DESIGN: L. TRAXINGER	10/2014					