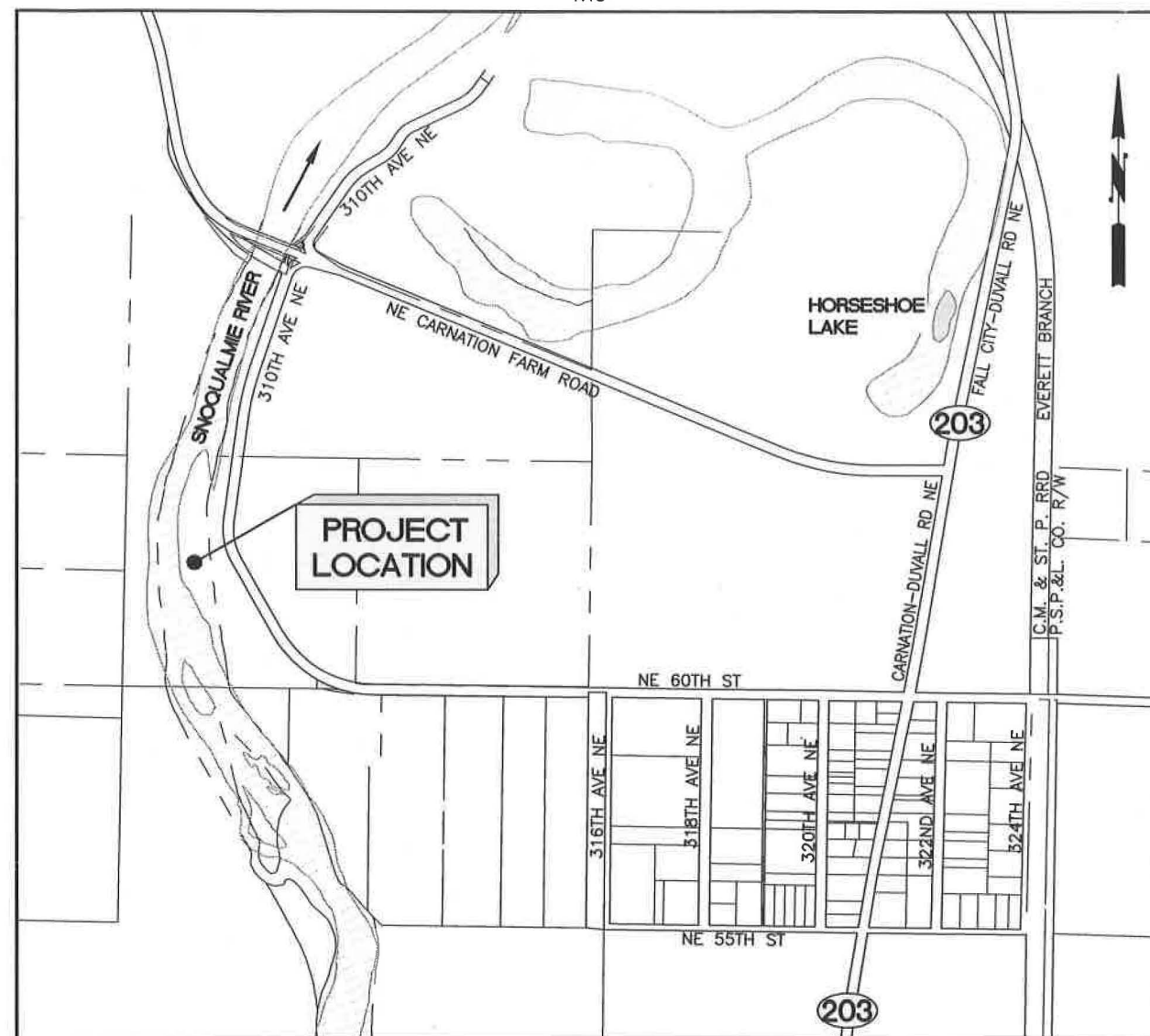


NTS



<u>SHEET</u>	<u>DESCRIPTION</u>
G1	COVER, VICINITY MAP & INDEX
G2	LEGEND & ABBREVIATIONS
C1	EXISTING SITE PLAN
C2	PROPOSED SITE PLAN
C3	OUTLET CHANNEL PROFILES & SECTIONS
C4	WETLAND AND ROAD ENHANCEMENT DETAILS
C5	ROAD STABILIZATION DETAILS
C6	LOG CLUSTER DETAILS
C7	TESC PLAN
C8	TESC DETAILS
C9	PLANTING PLAN



Department of Natural Resources and Parks
Water and Land Resources Division
Rural and Regional Resources Section
Ecological Restoration and Engineering Unit

Christie True, Director
Department of Natural Resources and Parks

McELHOE PEARSON RESTORATION PROJECT 2012



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

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

[illegible]

GENERAL NOTES:

- 1. HORIZONTAL DATUM: WASHINGTON STATE PLAN COORDINATE SYSTEM, NORTH ZONE, (NAD 83/91).
- 2. VERTICAL DATUM: NAVD 88
- 3. KING COUNTY WILL STAKE CONTROL, ROW, AND VEGETATION TO BE PROTECTED.
- 4. BEFORE BEGINNING CONSTRUCTION THE CONTRACTOR SHALL VERIFY THAT EXISTING CONDITIONS ARE AS INDICATED IN THE PLANS AND SPECIFICATIONS.
- 5. RESTORATION PLANTINGS WILL BE COMPLETED BY THE OWNER FOLLOWING CONTRACTOR PROJECT COMPLETION.
- 6. 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 ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.

CONSTRUCTION SEQUENCE:

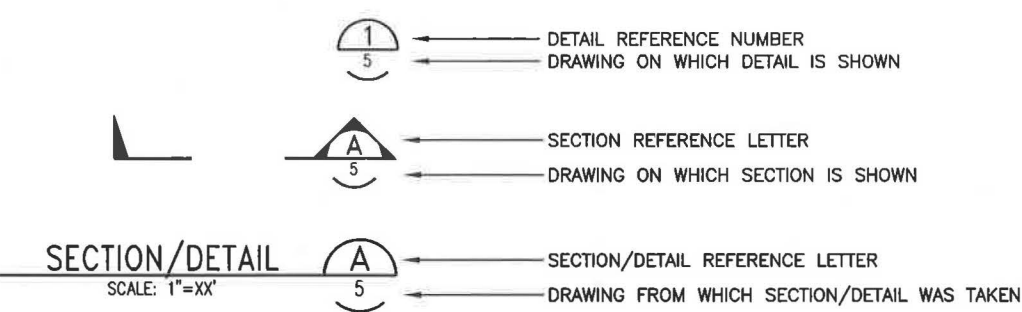
SITE PREPARATION:

- 1. CONDUCT A PRE-CONSTRUCTION MEETING.
- 2. INSTALL TEMPORARY ACCESS AS SHOWN ON PLANS.
- 3. INSTALL COMPOST SOCKS AS SHOWN ON PLANS.
- 4. MAINTAIN TESC MEASURES IN ACCORDANCE WITH THE PROJECT SPECIFICATONS AND GENERAL IN-WATER FEATURES.

DESIGN FEATURES:

- 1. CONSTRUCT ROAD STABILIZATION AND SHOULDER BERM.
- 2. INSTALL TURBIDITY CURTAINS AS SHOWN ON PLANS.
- 3. BREACH LEVEE AND EXCAVATE OUTLET CHANNEL AND AS SHOWN ON PLANS. STAGE ALL SLASH AND FELLED TREES FOR RE-USE ON-SITE.
- 4. PLACE SLASH AND FELLED TREES AS FIELD DIRECTED.
- 5. DEPOSIT SPOILS ON SITE AS SHOWN ON PLANS AND FIELD DIRECTED.
- 6. FINAL GRADE WETLAND RESTORATION AND PLACE SLASH AND FELLED TREES AS FIELD DIRECTED.
- 7. EXCAVATE KING COUNTY ACCESS ROAD, INSTALL CULVERT, AND BACKFILL ACCESS ROAD AS SHOWN ON PLANS.
- 8. FINAL GRADE WETLAND EXCAVATION AREA AND INSTALL SLASH AND FELLED TREES PER FIELD DIRECTION.
- 9. INSTALL LOG CLUSTERS.

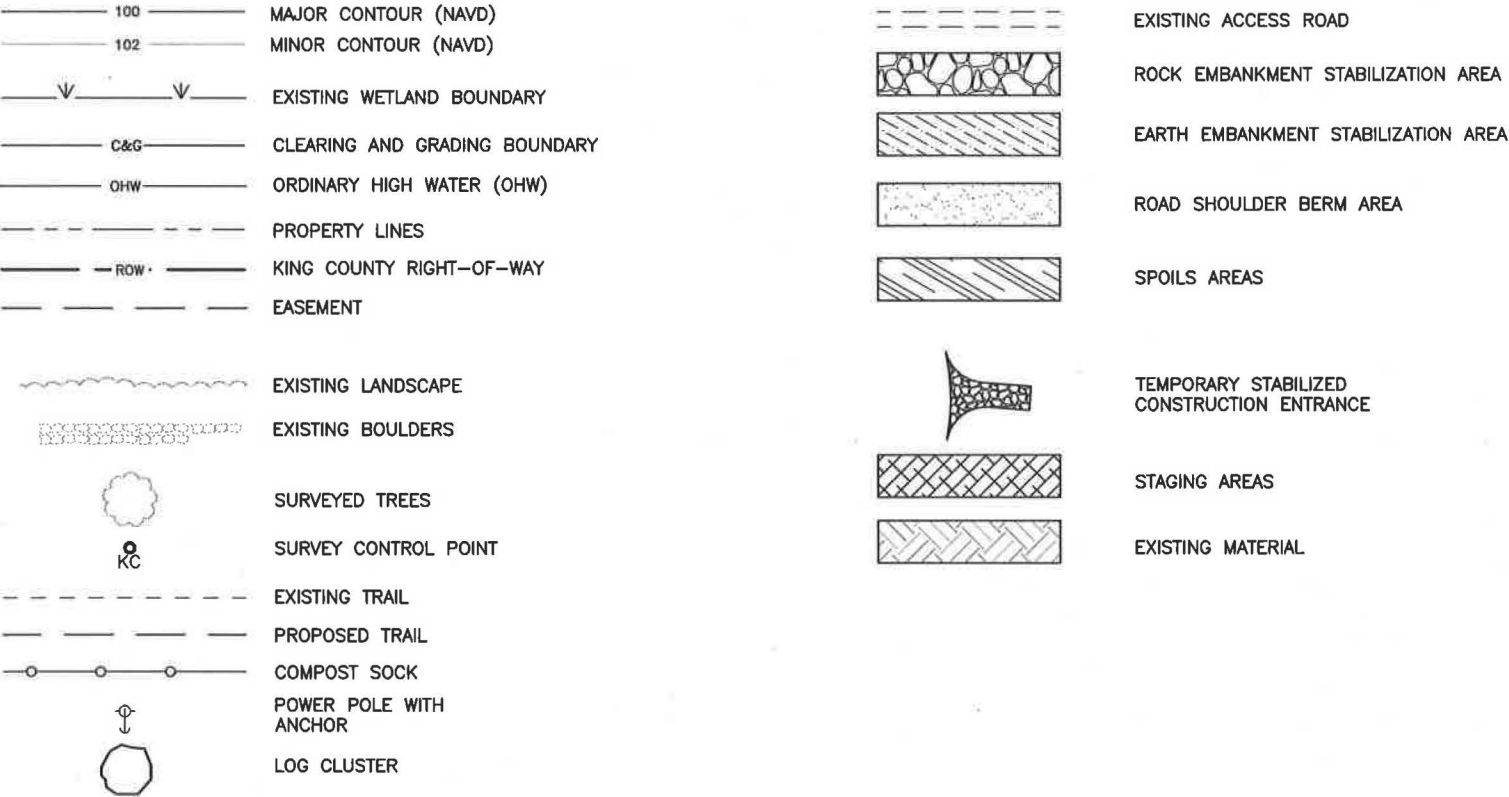
DRAWING REFERENCE:



ABBREVIATIONS:

- "_" INDICATES THAT THE DETAIL/SECTION IS SHOWN ON THE SAME DRAWING
- "TYP" INDICATES THAT THE DETAIL/SECTION IS UNIFORMLY TYPICAL THROUGHOUT PROJECT EXCEPT WHERE OTHERWISE NOTED
- "VAR" SPECIFIES THAT DETAIL/SECTION WAS TAKEN FROM SEVERAL DRAWINGS
- "NTS" NOT TO SCALE
- "TESC" TEMPORARY EROSION & SEDIMENT CONTROL
- "WSE" WATER SURFACE ELEVATION

LEGEND:



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(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK:					APPROVED: DIANE CONCANNON	8/2012	FED. AID No.	
SURVEYED: D. MALTOS	5/2011				PROJECT MANAGER: FAUNA NOPP	8/2012	PROJECT No.	1034170
SURVEY BASE MAP: R. CLARK	5/2011				DESIGNED: CAROLYN BUTCHART, P.E.	8/2012	SURVEY No.	11029
CHECKED: T. CRAY	5/2011				DESIGN ENTERED: KAY KITAMURA	8/2012	MAINTENANCE DIVISION No.	2
		NUM.	REVISION	BY	DATE			

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

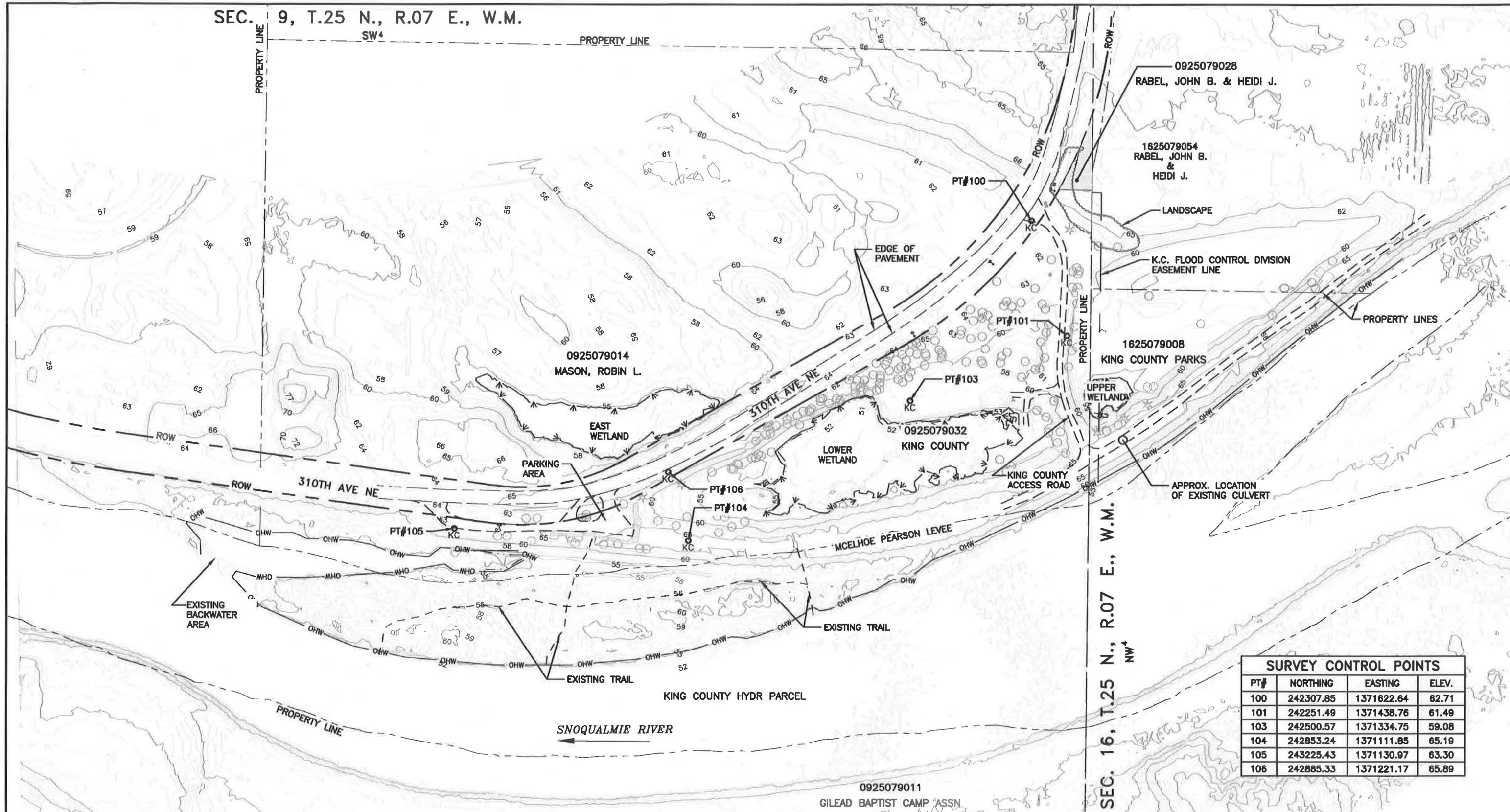
McELHOE PEARSON
RESTORATION PROJECT 2012

LEGEND & ABBREVIATIONS

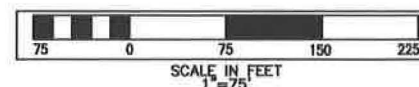
SHEET
G2
OF
11
SHEETS

2006-40

SEC. 9, T.25 N., R.07 E., W.M.



SURVEY CONTROL POINTS			
PT#	NORTHING	EASTING	ELEV.
100	242307.85	1371622.64	62.71
101	242251.49	1371438.76	61.49
103	242500.57	1371334.75	59.08
104	242853.24	1371111.85	65.19
105	243225.43	1371130.97	63.30
106	242885.33	1371221.17	65.89



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(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

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SURVEYED: D. MALTOS		PROJECT MANAGER: FAUNA NOPP		8/2012		PROJECT No. 1034170	
SURVEY BASE MAP: R. CLARK		DESIGNED: CAROLYN BUTCHART, P.E.		8/2012		SURVEY No. 11029	
CHECKED: T. CRAY		DESIGN ENTERED: KAY KITAMURA		8/2012		MAINTENANCE DIVISION No. 2	
NUM.	REVISION	BY	DATE				

8/13/12

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

**McELHOE PEARSON
RESTORATION PROJECT 2012**

EXISTING SITE PLAN

SHEET
C1
OF
11
SHEETS

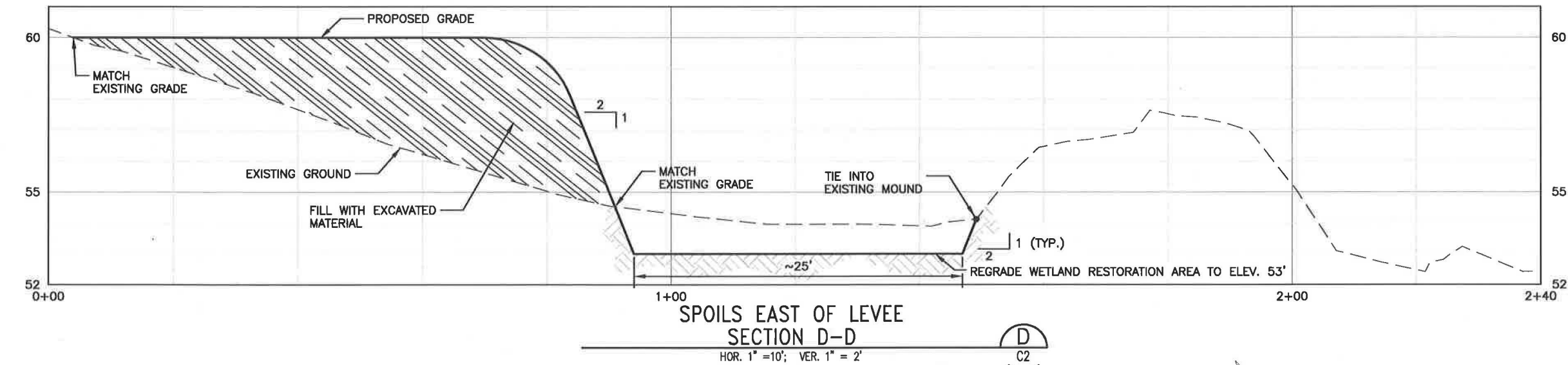
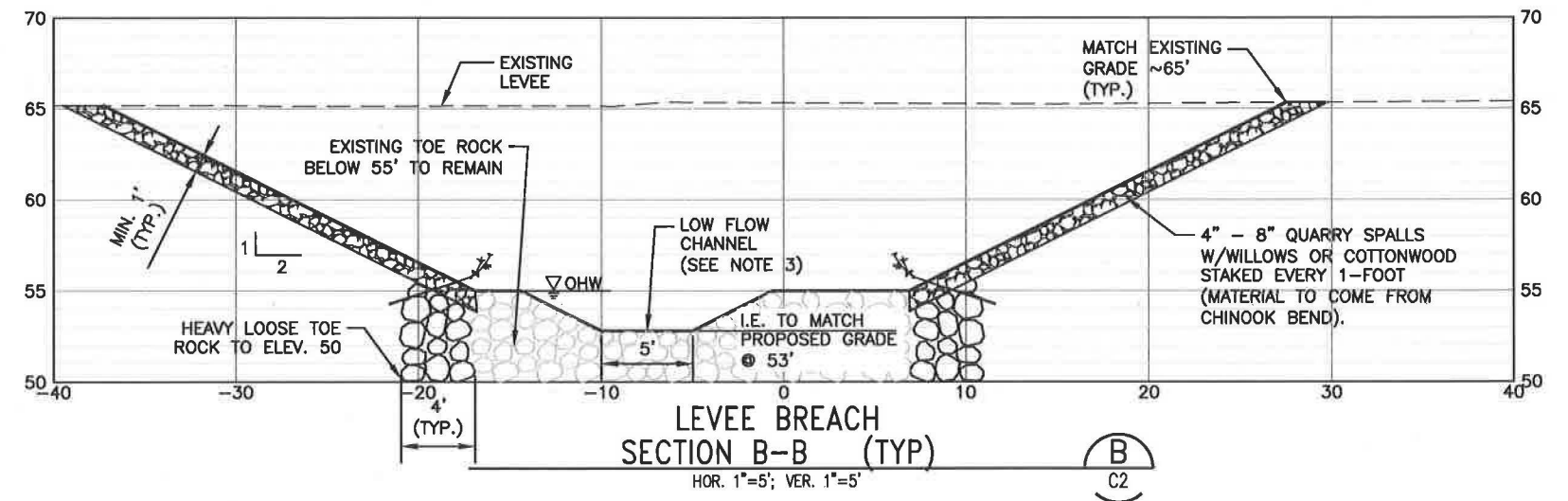
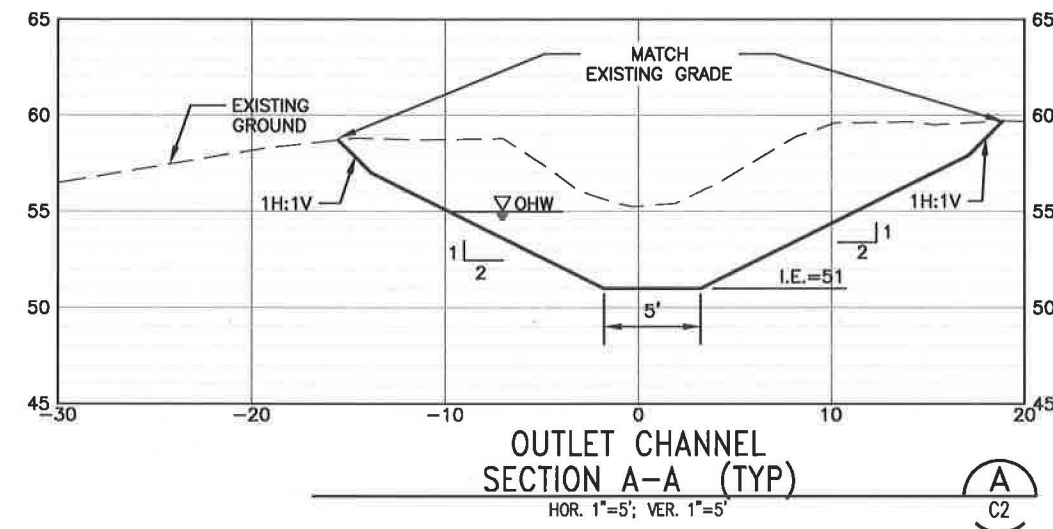
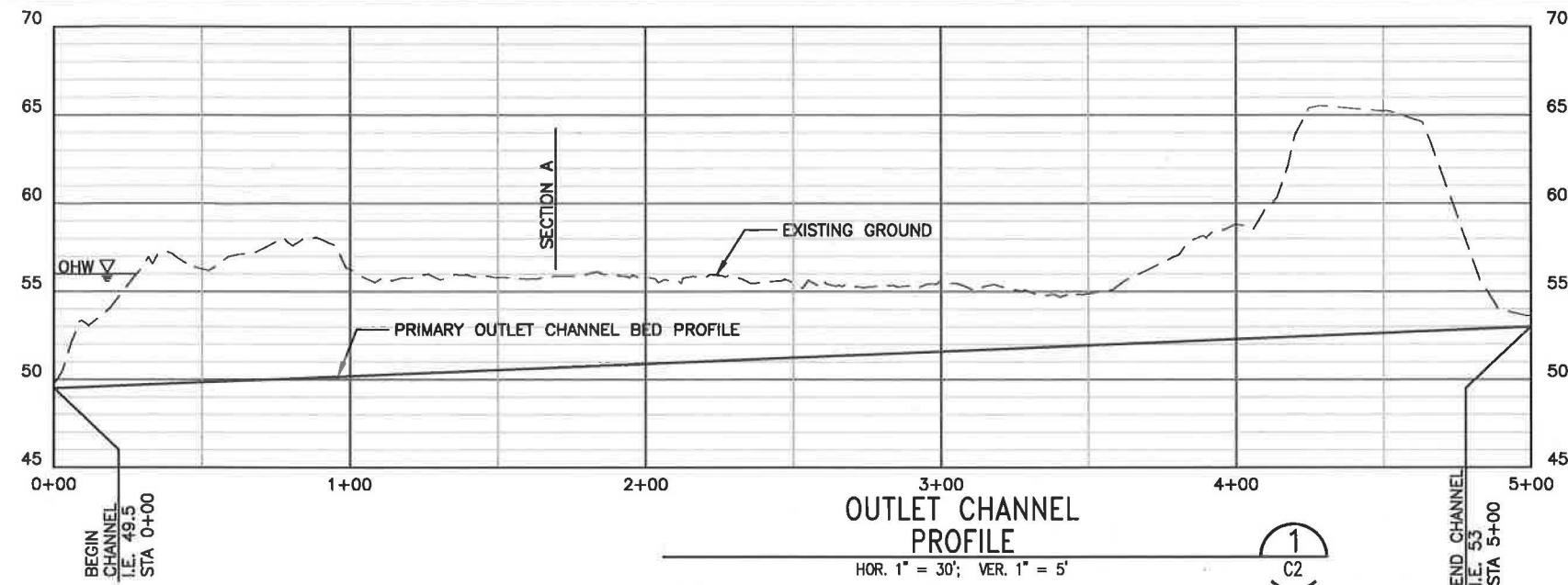
2006-40

1. ACTUAL EXCAVATION LIMITS FOR OUTLET CHANNEL AND DESIGNATED WETLAND AREAS TO BE FIELD DIRECTED TO MINIMIZE CLEARING OF VEGETATION.
2. SCRAPE SAND FROM OUTLET CHANNEL AND PLACE ON TOP OF LEVEE AT 6-INCHES THICK FOR PLANTING SOIL AMENDMENT.
3. FELLED TREES DURING CONSTRUCTION WITH MIN. DIAMETER OF 8-INCHES TO BE PLACED AS SHOWN ON PLANS OR FIELD DIRECTED. FELLED TREES TO BE UP AGAINST THE SOUTH SIDE (UPSTREAM SIDE) OF A MINIMUM OF 2 LIVE VERTICAL TREES. FELLED TREES ALONG OUTLET CHANNEL WILL BE TIPPED SUCH THAT ROOTWADS ARE FACING NEW CHANNEL.
4. FELLED TREES SMALLER THAN 8-INCH DIAMETER AND LESS THAN 20-FOOT LONG CAN BE SIDECAST ON-SITE ON POINT BAR, LOG CLUSTERS, AND WETLAND AREA AS FIELD DIRECTED.
5. SPOILS 1 APPROXIMATELY 30' LONG BY 30' WIDE. CREATE SPOILS 1 WITH TOP ENDS OF FELLED TREES ON BOTTOM AND OUTLET CHANNEL GRAVEL SPOILS AT 3H:1V SS ON WEST SIDE AND FLUSHED WITH EXISTING GRADE AT ELEVATION 59' ON EAST SIDE.



FIELD BOOK:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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I:\2006-40 McElhoe Pearson Levee Removal\DWG\1034170_C3-C4-C5 SEC.dwg, 8/9/2012 2:01:23 PM, kkitamura, 5500 West.pc3, 1,2



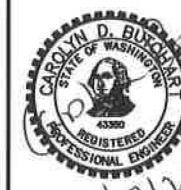
NOTES:

1. OUTLET CHANNEL TO BE EXCAVATED AT CONSISTENT GRADE FROM BEGINNING AND END STATIONS SHOWN ON THE PLANS. SPOILS TO BE PLACED PER DETAIL D.
2. TYPICAL OUTLET CHANNEL TO BE 5' WIDE AT BOTTOM AND EXCAVATED AT 2H:1V UNTIL LAST 2 FEET BEFORE TYING INTO EXISTING GRADE AT 1H:1V. SIDE SLOPES MAY VARY AS FIELD DIRECTED TO MINIMIZE VEGETATION DISTURBANCE.
3. BENCHES AT ELEV. 55' THROUGH LEVEE BREACH TO BE FIELD DIRECTED AS LOW FLOW CHANNEL ALIGNMENT VARIES.
4. TOE ROCK WITHIN EXISTING LEVEE PRISM TO BE 5' THICK OF HEAVY LOOSE RIPRAP FROM ELEV. 50' TO 55'.
5. 8" DIA OR GREATER AND 20' OR SHORTER FELLED TREES DURING CONSTRUCTION TO BE PLACED ON SOUTH SIDE AGAINST A MINIMUM OF TWO STANDING TREES OF MIN. 4" DIA.

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

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK:						APPROVED: DIANE CONCANNON	8/2012	FED. AID No.	-
SURVEYED: D. MALTOS	5/2011					PROJECT MANAGER: FAUNA NOPP	8/2012	PROJECT No.	1034170
SURVEY BASE MAP: R. CLARK	5/2011					DESIGNED: CAROLYN BUTCHART, P.E.	8/2012	SURVEY No.	11029
CHECKED: T. CRAY	5/2011							MAINTENANCE DIVISION No.	2
						DESIGN ENTERED: KAY KITAMURA	8/2012		
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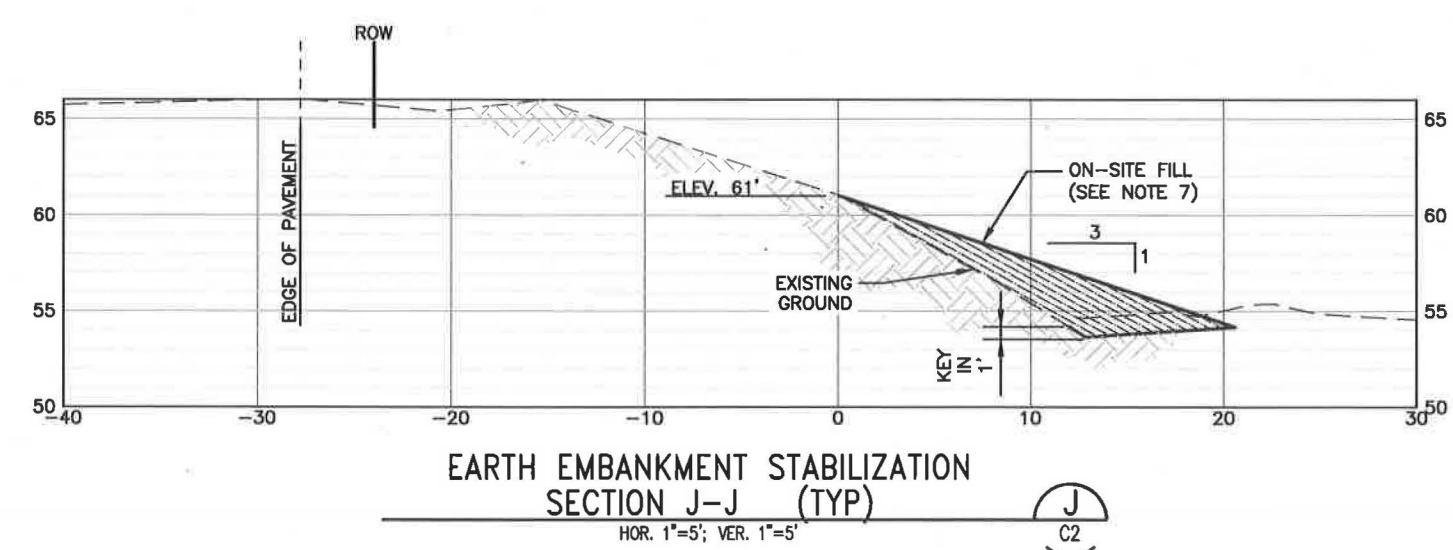
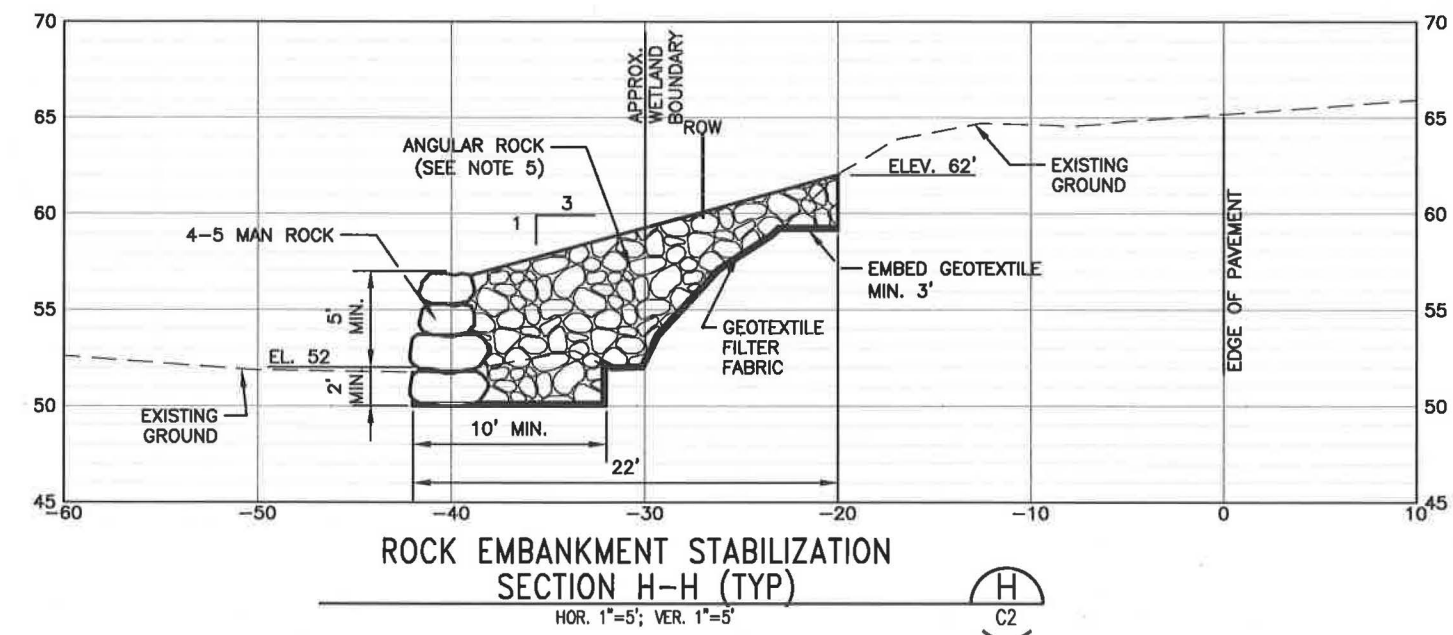
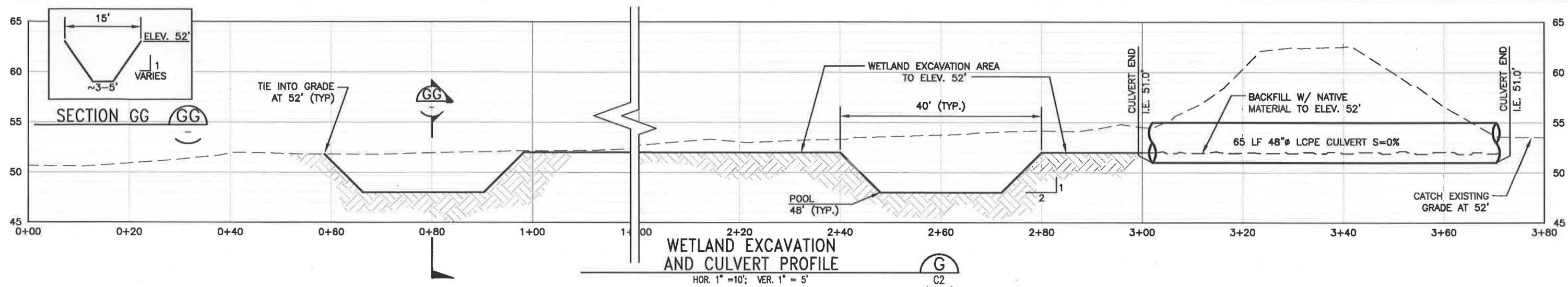


King County
Department of Natural Resources and Parks
Water and Land Resources Division
Rural and Regional Services Section
Ecological Restoration
and Engineering Services Unit
Christie True, Director

McELHOE PEARSON
RESTORATION PROJECT 2012

OUTLET CHANNEL PROFILES & SECTIONS

SHEET
C3
OF
11
SHEETS
2006-40



WETLAND EXCAVATION NOTE:

1. EXCAVATE WETLAND AREA TO ELEV. 52' INCLUDING THREE (3) DEEPER POOLS TO ELEV. 48' AS FIELD DIRECTED TO MINIMIZE DISTURBANCE OF EXISTING VEGETATION.

ROCK EMBANKMENT NOTES:

2. STRIP VEGETATION FROM EXISTING GRADE AND SMOOTH SURFACE BY REMOVING OBSTRUCTIONS OR PLACING CLEAN FREE DRAINING SAND FILL PRIOR TO GEOTEXTILE PLACEMENT.
3. STAKE ELEV. 62', OFFSET 22' FROM ELEV. 62' TO STAKE TOE.
4. GEOTEXTILE FILTER FABRIC TO BE GEOTEXTILE FOR PERMANENT EROSION CONTROL & DITCH LINING PER WSDOT 9.33.2 (1) TABLE 4&5 CLASS A OR B, OR OTHER EQUIVALENT NON WOVEN FABRIC. FABRIC TO EXTEND AS SHOWN ON PLANS. ALL SEAMS SHALL OVERLAP A MIN. OF 3'.
5. FREE DRAINING ANGULAR ROCK FILL SHALL BE SOUND ROCK WITH A MINIMUM WEIGHT OF 30 LBS. AND TYPICAL INTERMEDIATE DIAMETER BETWEEN 1-3'.
6. ROCKERY BASE COURSE TO BE SOUND ROCK A MINIMUM OF 4' INTO BANK AND EMBEDDED A MIN OF 2' BELOW EXISTING GRADE. UPPER ROCKERY COURSE(S) TO BE SOUND ROCK A MINIMUM OF 3' INTO BANK.



EARTH EMBANKMENT NOTE:

7. FILL TO BE ON-SITE SPOILS FROM LEVEE BREACH. CLEAR AND GRUB SUBGRADE. BUILD 1' LIFTS AND COMPACT WITH BUCKET.

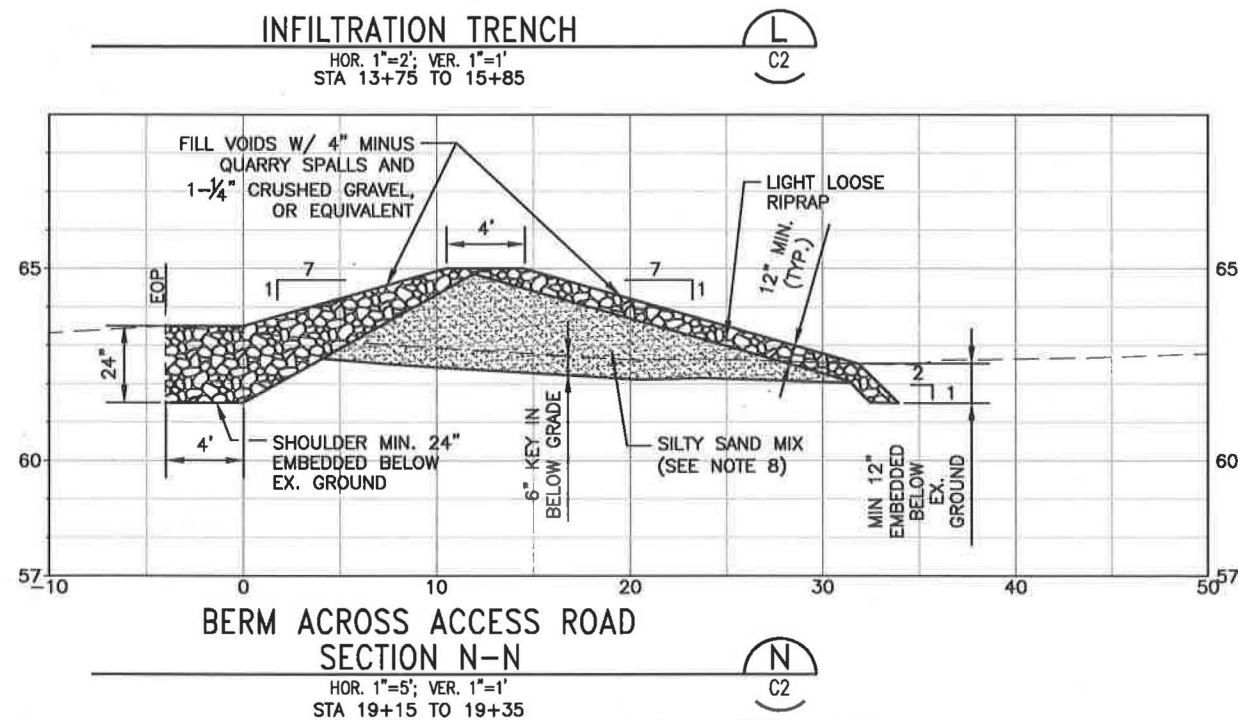
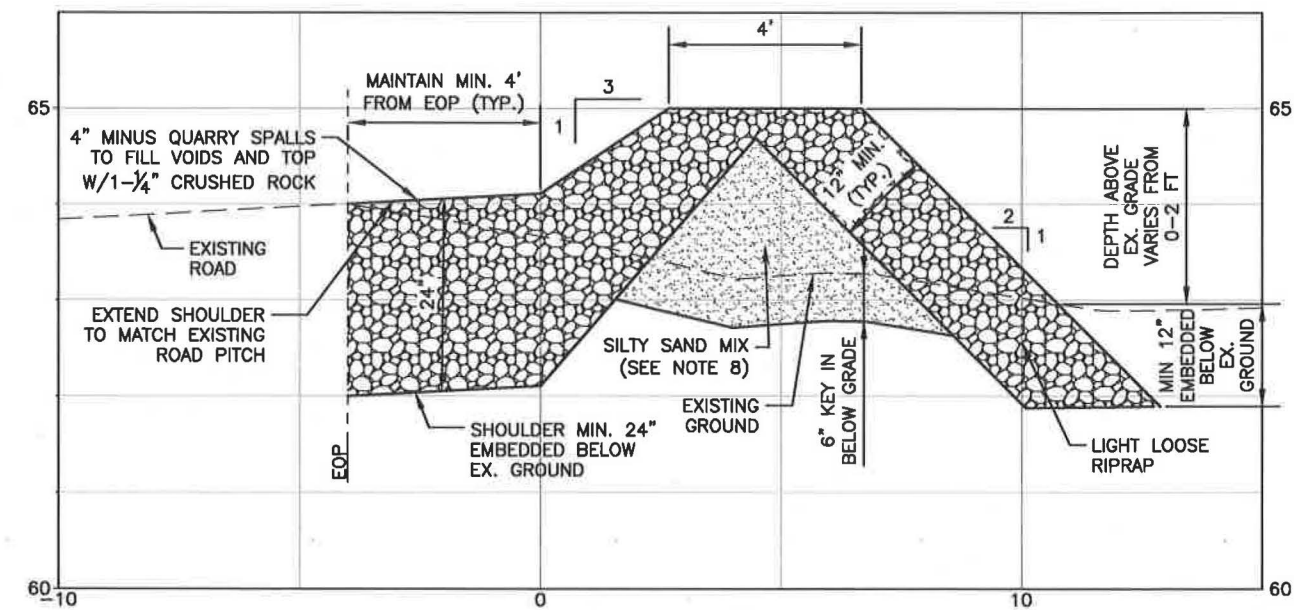
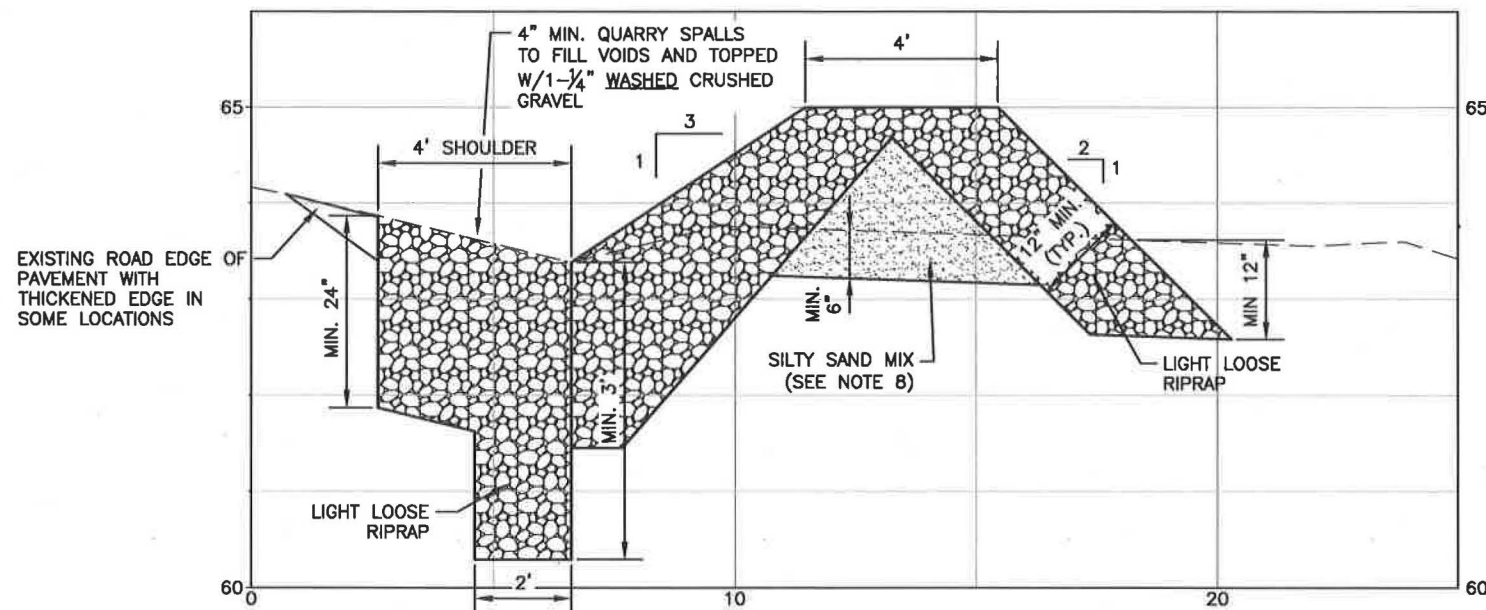
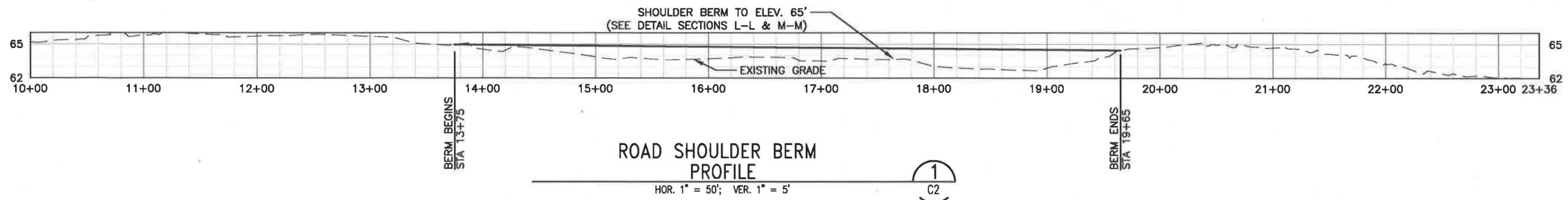
CULVERT NOTE:

8. SEE CULVERT TRENCH AND BACKFILL DETAIL ON SHEET C8.

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

FIELD BOOK: _____						APPROVED: <u>DIANE CONCANNON</u>	<u>8/2012</u>	FED. AID No. <u> - </u>		 King County 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>	McELHOE PEARSON RESTORATION PROJECT 2012	WETLAND AND ROAD ENHANCEMENT DETAILS	SHEET C4 OF 11 SHEETS 2006-40
SURVEYED: <u>D. MALTOS</u> <u>5/2011</u>					PROJECT MANAGER: <u>FAUNA NOPP</u>	<u>8/2012</u>	PROJECT No. <u>1034170</u>						
SURVEY BASE MAP: <u>R. CLARK</u> <u>5/2011</u>					DESIGNED: <u>CAROLYN BUTCHART, P.E.</u>	<u>8/2012</u>	SURVEY No. <u>11029</u>						
CHECKED: <u>T. CRAY</u> <u>5/2011</u>							MAINTENANCE DIVISION No. <u>2</u>						
					DESIGN ENTERED: <u>KAY KITAMURA</u>	<u>8/2012</u>							
		NUM.	REVISION	BY	DATE								

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SHOULDER BERM NOTES:

1. ROADSIDE TOE OF BERM TO BE OFFSET 4' FROM EDGE OF PAVEMENT TO PROVIDE SHOULDER.
2. SHOULDER TO MATCH EXISTING PITCH OF PAVEMENT WITH A MINIMUM OF 24" OF LIGHT LOOSE RIPRAP.
3. TIE SHOULDER INTO EXISTING PAVEMENT WITH CARE NOT TO DISTURB THICKENED AND EXTENDED PAVEMENT EDGES. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE EXACT LOCATION AND DIMENSIONS OF THICKENED/EXTENDED EDGE OF PAVEMENT AND TAKE CARE NOT TO DISTURB.
4. FILL VOIDS IN SHOULDER WITH 4" MINUS QUARRY SPALLS AND 1-1/4" CRUSHED ROCK.
5. INFILTRATION TRENCH ALONG CROWNED ROAD SECTION BETWEEN STATIONS 13+75 TO 15+85 TO BE OFFSET 2' FROM EDGE OF PAVEMENT WITH MINIMUM DIMENSIONS OF 2' WIDE BY 3' DEEP. BACKFILL WITH LIGHT LOOSE RIPRAP.
6. BERM CORE TO BE BUILT IN 8" LIFTS AND COMPACTED W/ ROLLER TO 95% MAX. DENSITY AS DETERMINED BY MODIFIED PROCTOR.
7. DENSITY TEST OF BERM CORE TO BE TAKEN BEFORE COVERED W/ LLRR.
8. POUR SILTY SAND MIX BERM CORE FIRST, THEN OVERLAY W/ LLRR.

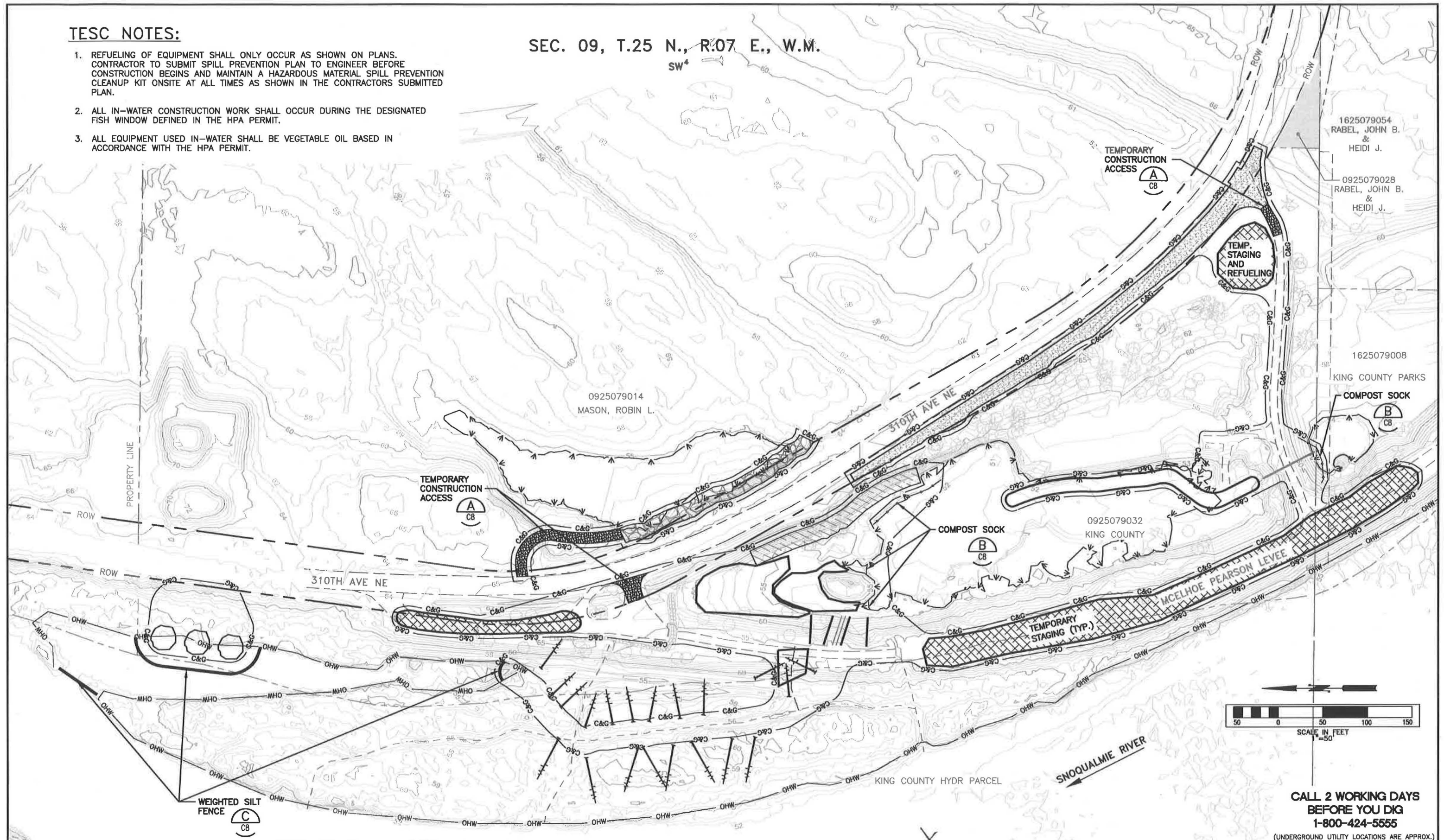
SIEVE	%PASSING
4"	100
2"	75-100
NO. 4	40-75
NO. 40	30-50
NO. 200	20 MIN.

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

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



FIELD BOOK: _____ SURVEYED: D. MALTOS 5/2011 SURVEY BASE MAP: R. CLARK 5/2011 CHECKED: T. CRAY 5/2011		APPROVED: DIANE CONCANNON 8/2012 PROJECT MANAGER: FAUNA NOPP 8/2012 DESIGNED: CAROLYN BUTCHART, P.E. 8/2012 DESIGN ENTERED: KAY KITAMURA 8/2012		FED. AID No. _____ PROJECT No. 1034170 SURVEY No. 11029 MAINTENANCE DIVISION No. 2				McELHOE PEARSON RESTORATION PROJECT 2012 ROAD STABILIZATION DETAILS	SHEET C5 OF 11 SHEETS 2006-40
NUM. REVISION BY DATE									

1. REFUELING OF EQUIPMENT SHALL ONLY OCCUR AS SHOWN ON PLANS. CONTRACTOR TO SUBMIT SPILL PREVENTION PLAN TO ENGINEER BEFORE CONSTRUCTION BEGINS AND MAINTAIN A HAZARDOUS MATERIAL SPILL PREVENTION CLEANUP KIT ONSITE AT ALL TIMES AS SHOWN IN THE CONTRACTORS SUBMITTED PLAN.
2. ALL IN-WATER CONSTRUCTION WORK SHALL OCCUR DURING THE DESIGNATED FISH WINDOW DEFINED IN THE HPA PERMIT.
3. ALL EQUIPMENT USED IN-WATER SHALL BE VEGETABLE OIL BASED IN ACCORDANCE WITH THE HPA PERMIT.

SW⁴

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

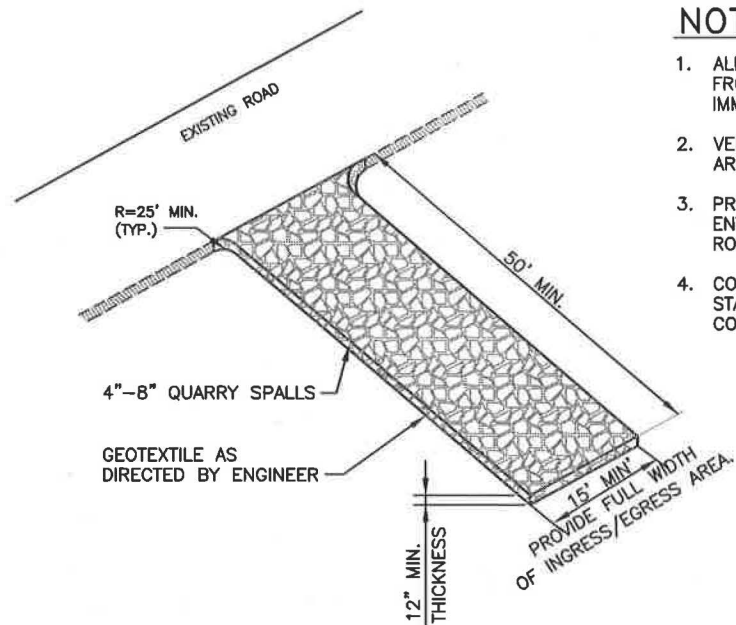
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK: _____						APPROVED: <u>DIANE CONCANNON</u>	<u>8/2012</u>	FED. AID No. <u> — </u>		 King County 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>	McELHOE PEARSON RESTORATION PROJECT 2012 TESC PLAN	SHEET C7 OF 11 SHEETS 2006-40
SURVEYED: <u>D. MALTOS</u>		<u>5/2011</u>				PROJECT MANAGER: <u>FAUNA NOPP</u>	<u>8/2012</u>	PROJECT No. <u>1034170</u>				
SURVEY BASE MAP: <u>R. CLARK</u>		<u>5/2011</u>				DESIGNED: <u>CAROLYN BUTCHART, P.E.</u>	<u>8/2012</u>	SURVEY No. <u>11029</u>				
CHECKED: <u>T. CRAY</u>		<u>5/2011</u>										
						DESIGN ENTERED: <u>KAY KITAMURA</u>	<u>8/2012</u>	MAINTENANCE DIVISION No. <u>2</u>				
						NUM.	REVISION	RY	DATE			

SHEET
C7
OF
11
SHEETS

2006-40

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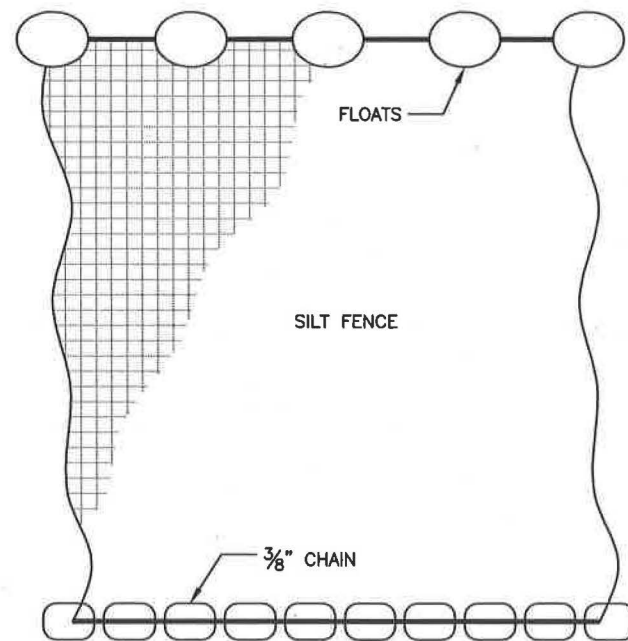
STABILIZED TEMPORARY
CONSTRUCTION ACCESS

NTS

NOTES:

1. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS MUST BE REMOVED IMMEDIATELY.
2. VEHICLE TIRES SHALL BE INSPECTED TO ENSURE THEY ARE FREE OF MUD BEFORE ENTERING PUBLIC ROADWAYS.
3. PROVIDE FLAGGING FOR CONSTRUCTION VEHICLES ENTERING AND LEAVING SITE AND ENTERING PUBLIC ROADWAYS.
4. CONTRACTOR SHALL MAINTAIN AND AUGMENT EXISTING STABILIZED CONSTRUCTION ENTRANCES AS NEEDED TO CONTROL SEDIMENT.

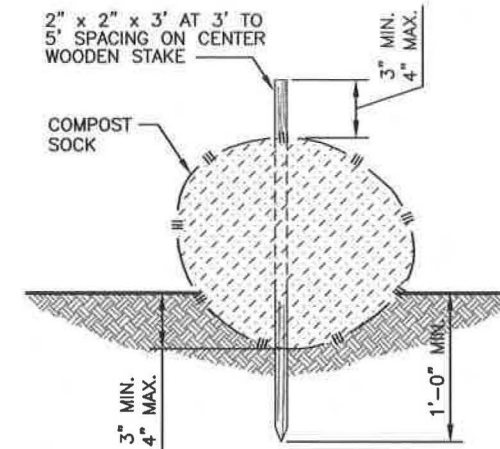
A
C7



WEIGHTED SILT FENCE (TYP.)

NTS

C
C7



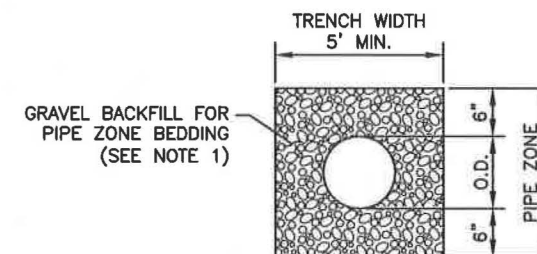
COMPOST SOCK

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).

B
C7



48" LCPE CULVERT DETAIL

NOTE:

1. GRAVEL BACKFILL FOR PIPE ZONE BEDDING SHALL CONSIST OF CRUSHED, PROCESSED, OR NATURALLY OCCURRING GRANULAR MATERIAL PER THE FOLLOWING GRADATION:

SIEVE SIZE	PERCENT PASSING
1 1/2"	99-100
1"	75-100
5/8"	50-100
NO. 4	20-80
NO. 40	3-24
NO. 200	10.0 MAX
SAND EQUIVALENT	35 MIN.

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FIELD BOOK:					APPROVED: DIANE CONCANNON	8/2012	FED. AID No.	-
SURVEYED:	D. MALTOS	5/2011			PROJECT MANAGER: FAUNA NOPP	8/2012	PROJECT No.	1034170
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NUM.	REVISION	BY	DATE					



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

**McELHOE PEARSON
RESTORATION PROJECT 2012**

TESC DETAILS

SHEET
C8
OF
11
SHEETS

2006-40

