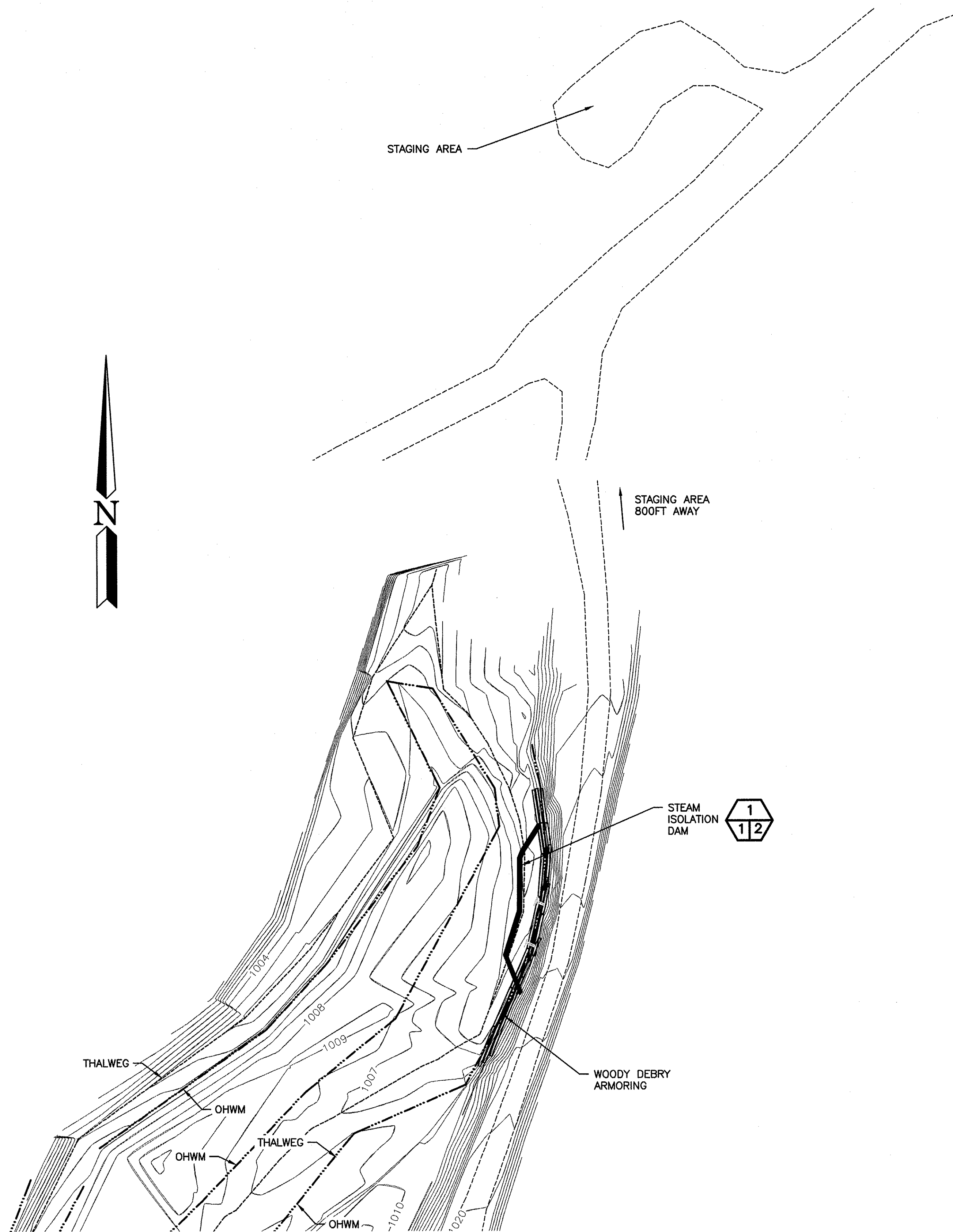
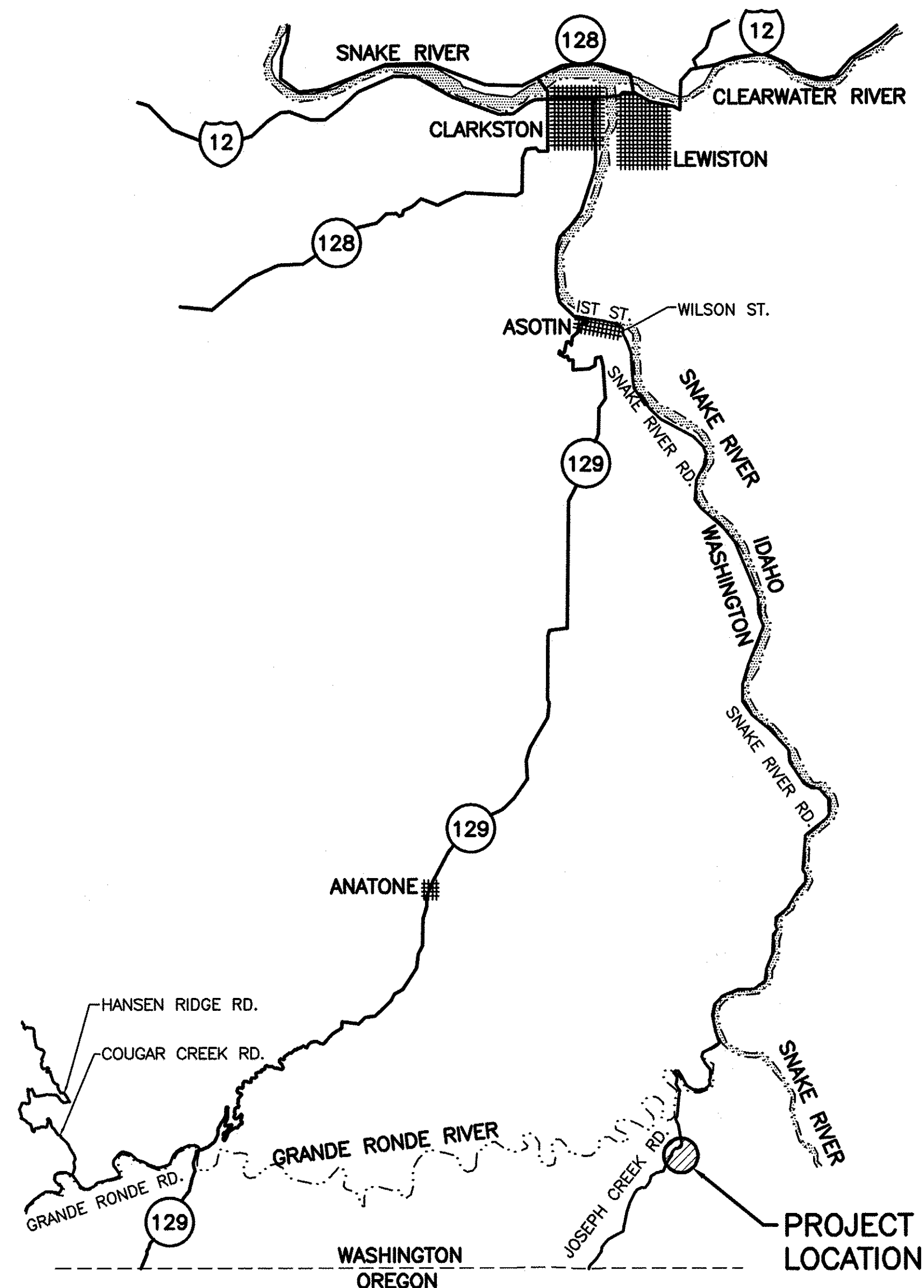
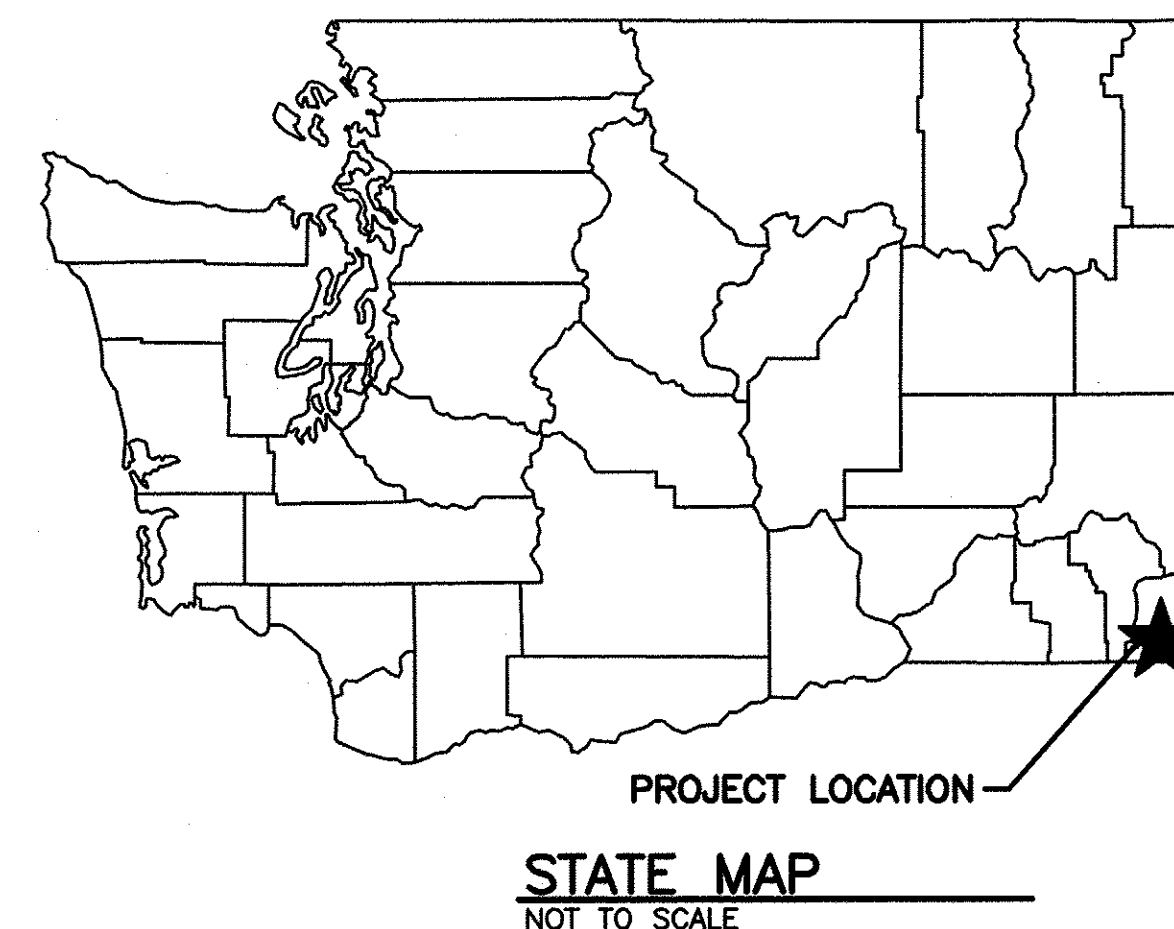




EXISTING & EROSION SITE PLAN
SCALE: 1" = 30'



VICINITY MAP
NOT TO SCALE



SURVEY DATA:

JOB NUMBER 19452.10
CLIENT WDFW
PM ABB
CAD DRS
DRAWING SCALE 1"=20'
FIELD CREW BL/WB
FIELD BOOKS 753A
DRAWING NAME R3820201C.DWG
PROJECT NAME JOSEPH CREEK
SURFACE NAME V19452-JOSEPH-EG

HORIZONTAL DATUM

HORIZONTAL DATUM: NAD 83/11, WASHINGTON COORDINATE SYSTEM SOUTH ZONE. BASED ON GPS MEASUREMENTS UTILIZING THE VIRTUAL REFERENCE NETWORK AND CONSTRAINED TO THE FOLLOWING WASHINGTON STATE DEPARTMENT OF TRANSPORTATION CONTROL POINTS:

DESIGNATION: ROGERSBURG 2 1969
MONUMENT ID: 2039
NORTH= 292203.946'
EAST= 2532802.979'

DESIGNATION: ROGERSBURG AZ 2
MONUMENT ID: 2038
NORTH= 298178.589'
EAST= 2533098.028'

VERTICAL DATUM

VERTICAL DATUM: NAVD 88 BASED ON GPS MEASUREMENTS UTILIZING THE VIRTUAL REFERENCE NETWORK AND GEOID 2012A MODEL.
DESIGNATION: ROGERSBURG 2 1969
MONUMENT ID: 2039
ELEVATION = 854.742 FEET

ALL DISTANCES SHOWN ARE GROUND DISTANCES UNLESS OTHERWISE NOTED.

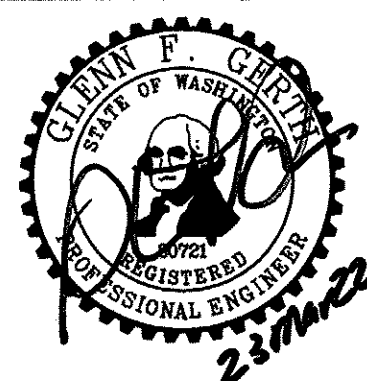
THE LOCATION AND DESCRIPTION OF ALL SURVEY MARKERS SHOWN HEREON ARE BASED ON FIELD OBSERVATIONS TAKEN IN FEBRUARY, 2020, UNLESS OTHERWISE INDICATED.

WORK PERFORMED IN CONJUNCTION WITH THIS SURVEY UTILIZED THE FOLLOWING EQUIPMENT AND PROCEDURES: (A) 1" TRIMBLE S7 SERIES ELECTRONIC TOTAL STATION, MAINTAINED TO THE MANUFACTURER'S SPECIFICATIONS PER W.A.C. 332-130-100. (B) FIELD TRAVERSE, EXCEEDING REQUIREMENTS SET FORTH IN W.A.C. 332-130-090. (C) LEASE SQUARE ADJUSTMENT USING StarNet VERSION 9.0 EXCEEDING REQUIREMENTS PER W.A.C. 332-130-080.

THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND DOES NOT PURPORT TO SHOW ALL EASEMENTS.

THIS TOPOGRAPHIC SURVEY DRAWING ACCURATELY PRESENTS SURFACE FEATURES LOCATED DURING THE COURSE OF THIS SURVEY. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED SOLELY UPON INFORMATION PROVIDED BY OTHERS AND PACE ENGINEERS, INC. DOES NOT ACCEPT RESPONSIBILITY OR ASSUME LIABILITY FOR THEIR ACCURACY OR COMPLETENESS. CONTRACTOR/ENGINEERS SHALL VERIFY EXACT SIZE AND LOCATION PRIOR TO CONSTRUCTION. CALL FOR LOCATE: UTILITY LOCATION SERVICE: 811

WASHINGTON DEPARTMENT OF
FISH & WILDLIFE



SYM	DATE	REVISION DESCRIPTION	BY
APPROVED AND RELEASED FOR CONSTRUCTION			
CHIEF ENGINEER	DATE 2/22/22	DESIGNED BY H. KNECHTEL	CHECKED BY
PROGRAM	DATE 3-23-2022	DRAWN BY N. WHITE	DATE 3-23-2022

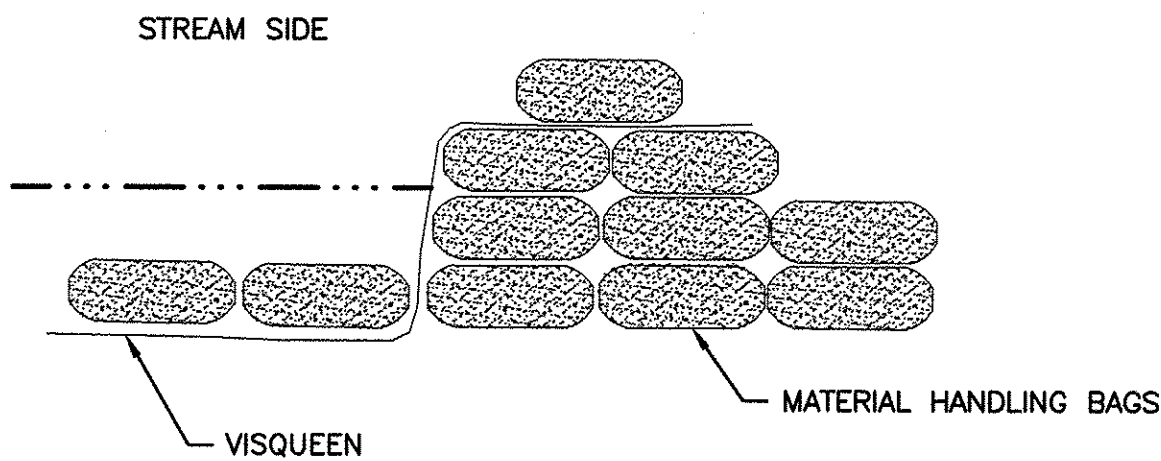
CHIEF JOESPH WLA - CHIEF JOESPH UNIT
ROAD STABILIZATION PHASE 2
EXISTING SITE PLAN

PROJECT NO.
AN:R38:2019-2

SHEET 1 OF 3

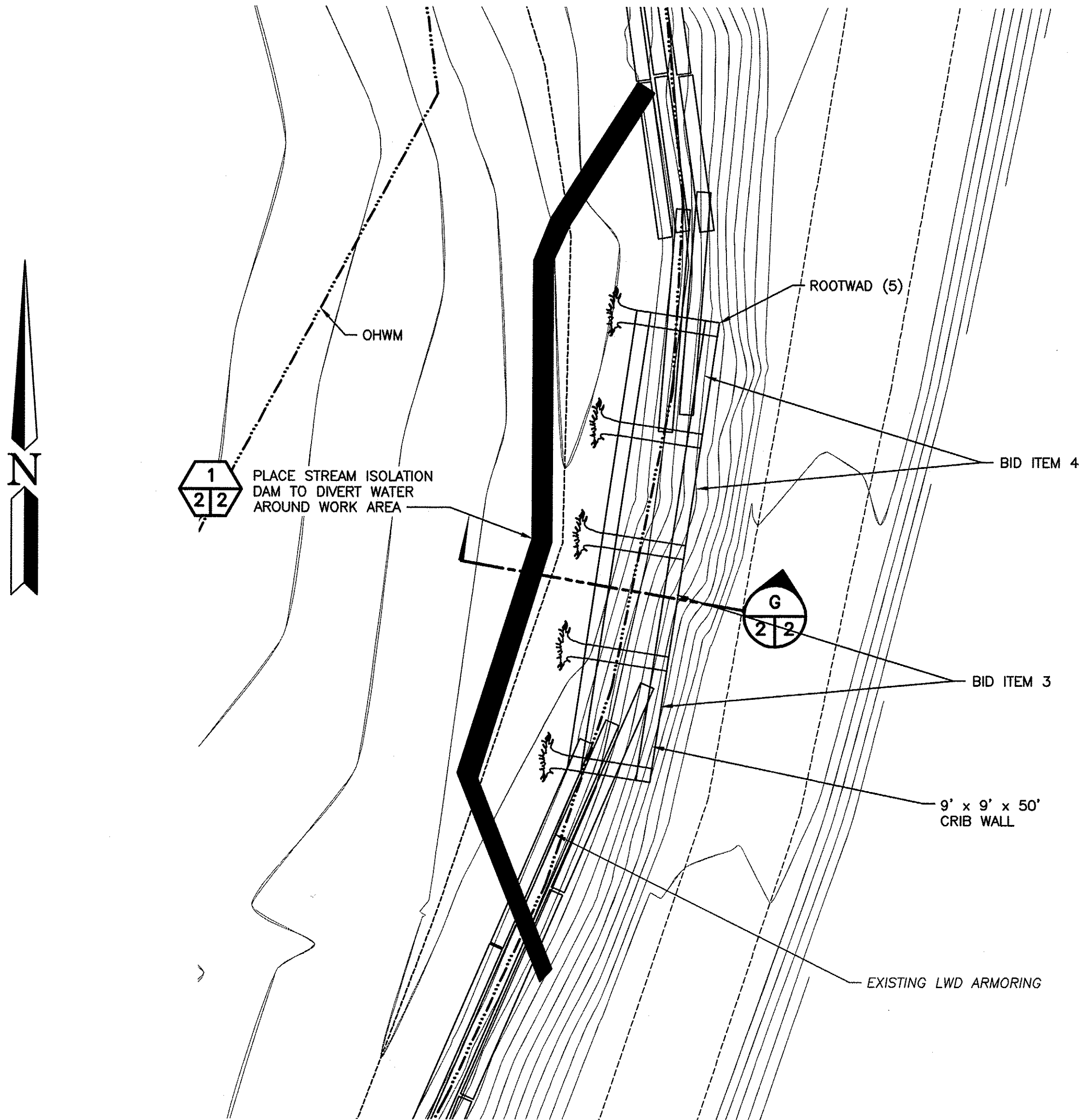
CUT AND FILL DATA						
SITE	CUT ABOVE OHW	CUT BELOW OHW	FILL ABOVE OHW	FILL BELOW OHW	SQ FT ABOVE OHW	SQ FT BELOW OHW
CRIB WALL CUT	48 CY	63 CY			290 SQ. FT.	245 SQ. FT.
CRIB WALL FILL WOOD			30 CY	23 CY		
COMMON BORROW			45 CY	21 CY		
QUARRY SPALLS				26 CY		
CRIB WALL FILL STREAMBED ROCK			3 CY	5 CY		
TOPSOIL			20 CY			
MULCH			5 CY			
TOTAL	48 CY	63 CY	103 CY	75 CY	290 SQ. FT.	245 SQ. FT.

NET CUT AND FILL = 67 CY FILL

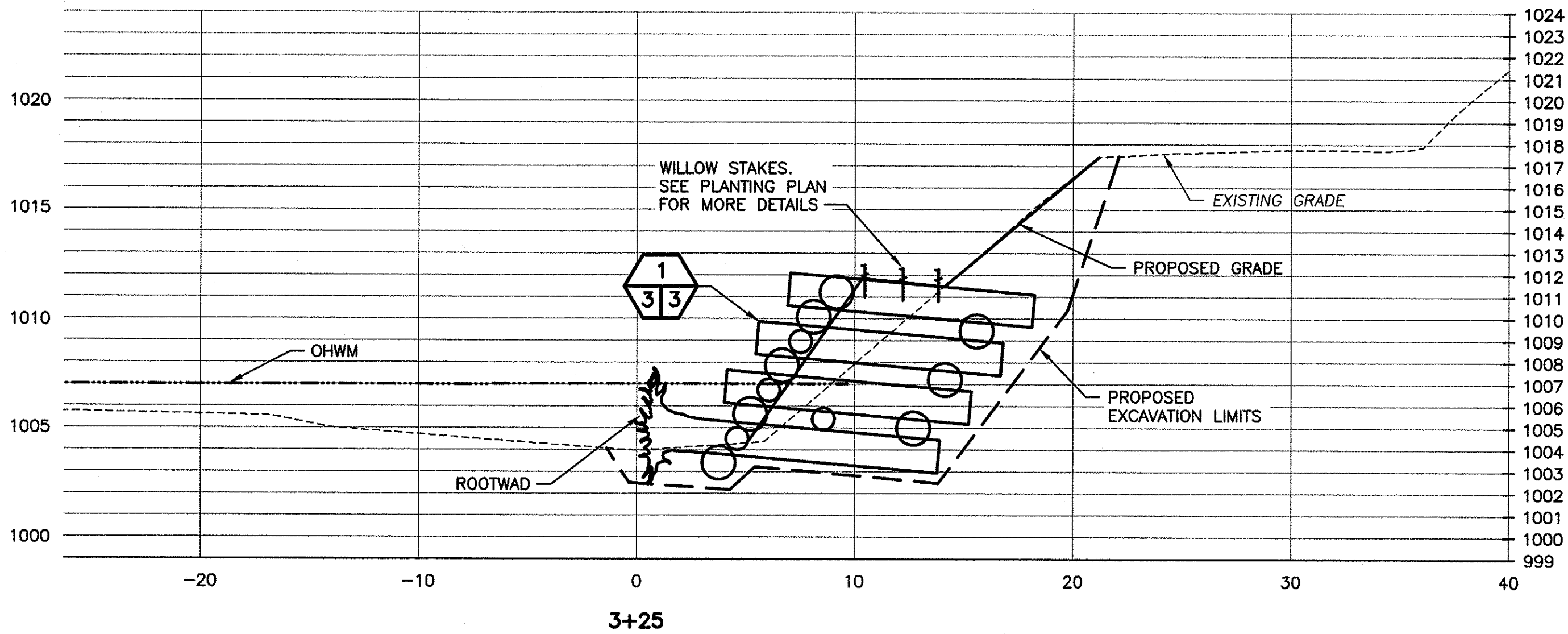


STREAM ISOLATION DAM 1 1 1 2 2 2
NOT TO SCALE

NOTES:
SEE SPECS FOR MORE INFORMATION OF MATERIAL HANDLING BAGS

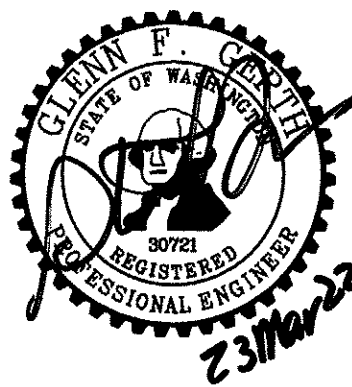


NEW SITE PLAN
SCALE: 1" = 10'



CRIB WALL SECTION G 2 2
SCALE: 1" = 10'

WASHINGTON DEPARTMENT OF
FISH & WILDLIFE

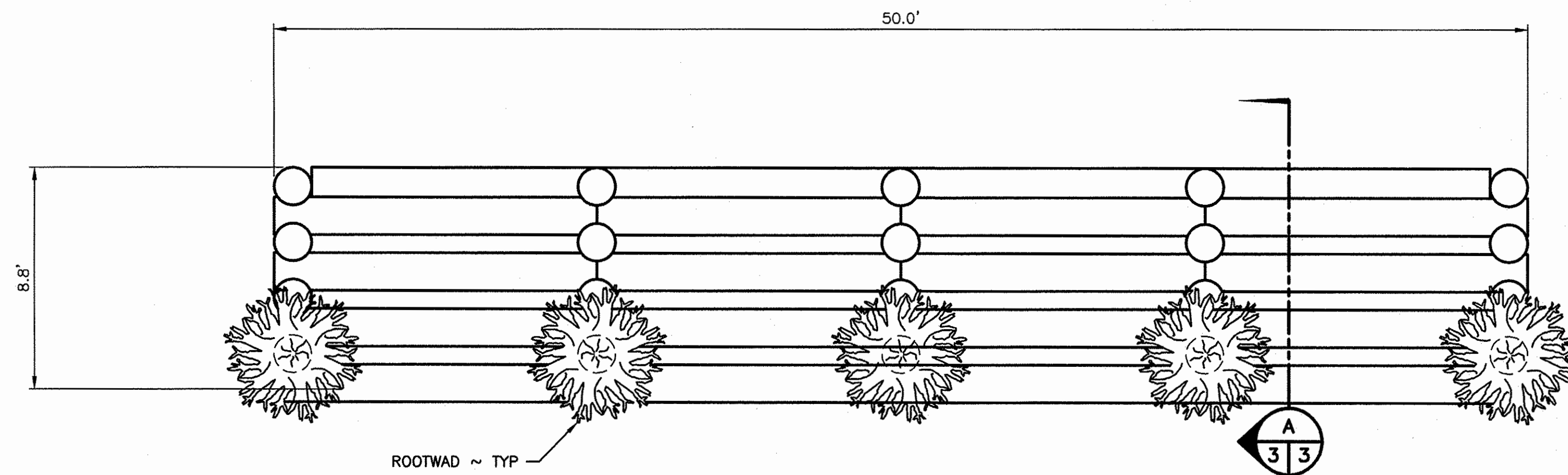


SYM	DATE	REVISION DESCRIPTION	BY
		APPROVED AND RELEASED FOR CONSTRUCTION	
CHIEF ENGINEER			DATE: 23 Mar 22
PROGRAM			DATE: 3-23-2022

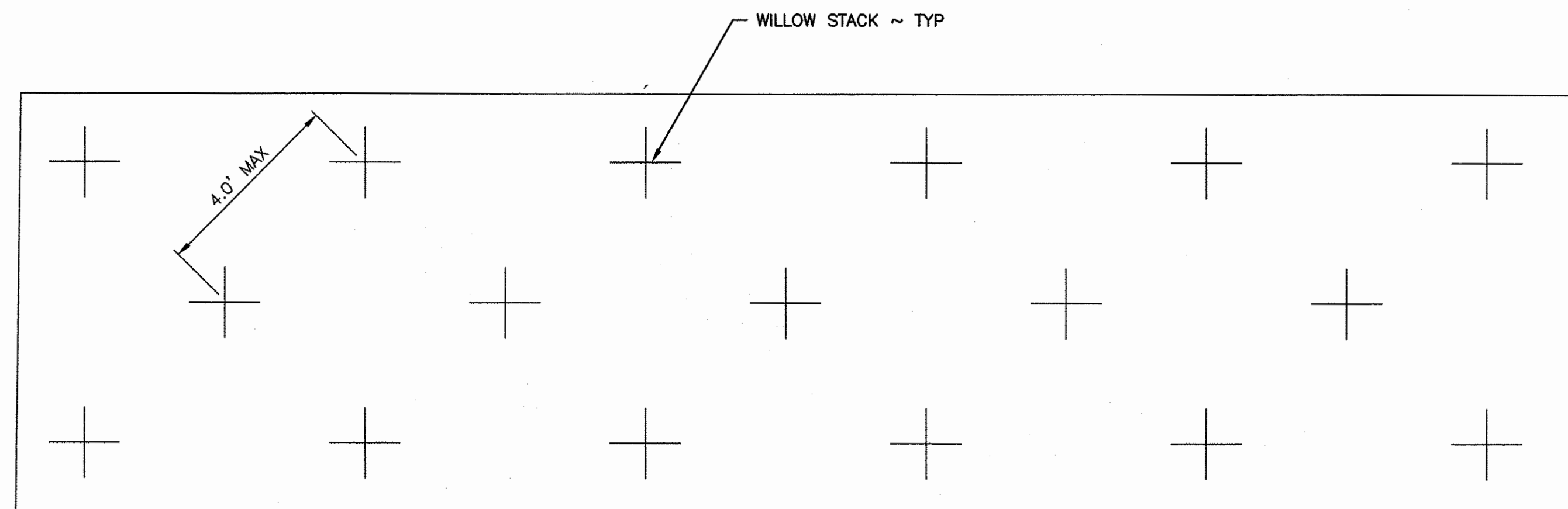
CHIEF JOESPH WLA – CHIEF JOESPH UNIT
ROAD STABILIZATION PHASE 2
NEW SITE PLAN AND SECTION

PROJECT NO.
AN:R38:2019-2

SHEET OF
2 3

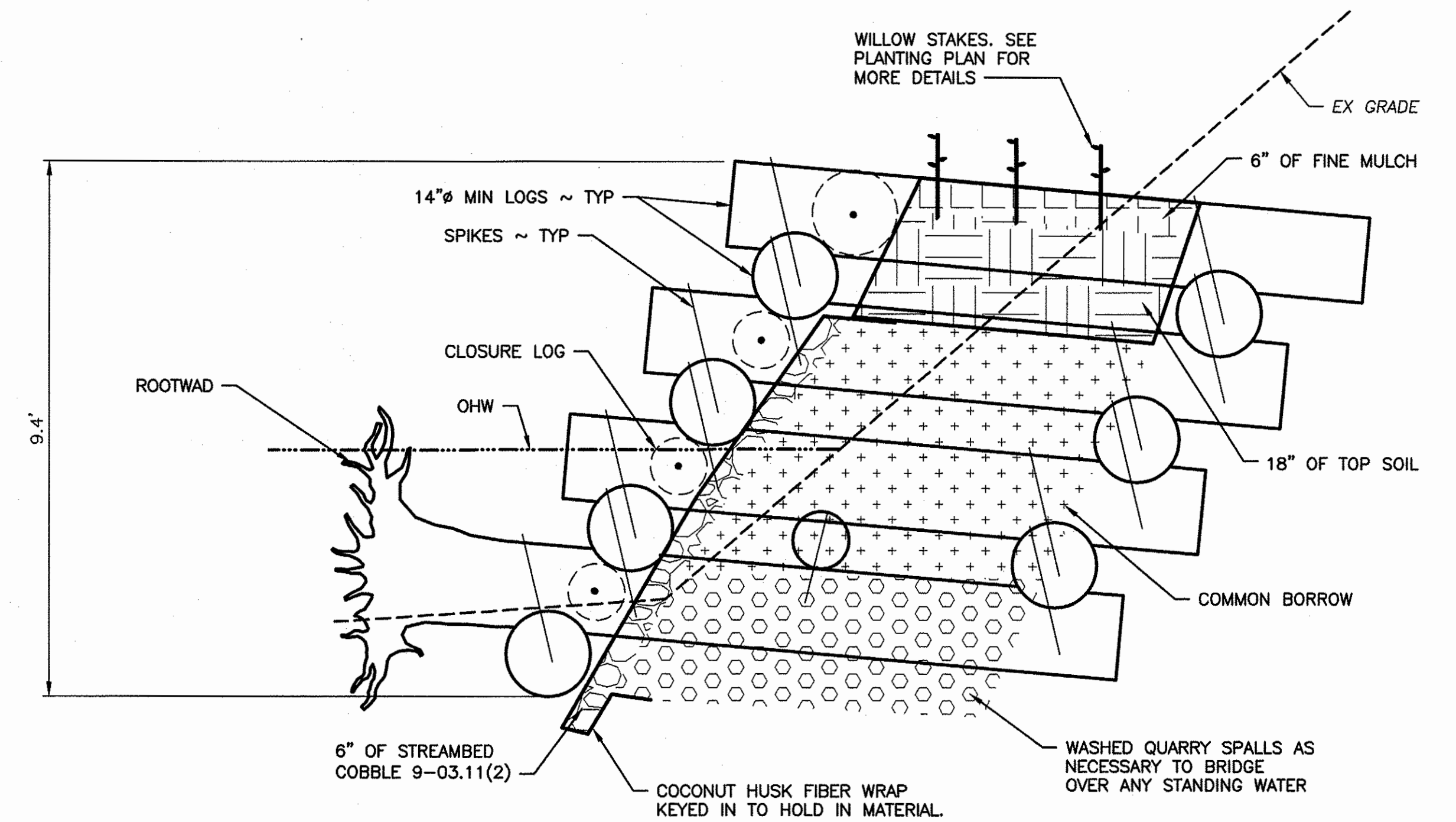


ROCK CRIB PLAN
SCALE: 1" = 2'



PLATING PLAN
NOT TO SCALE

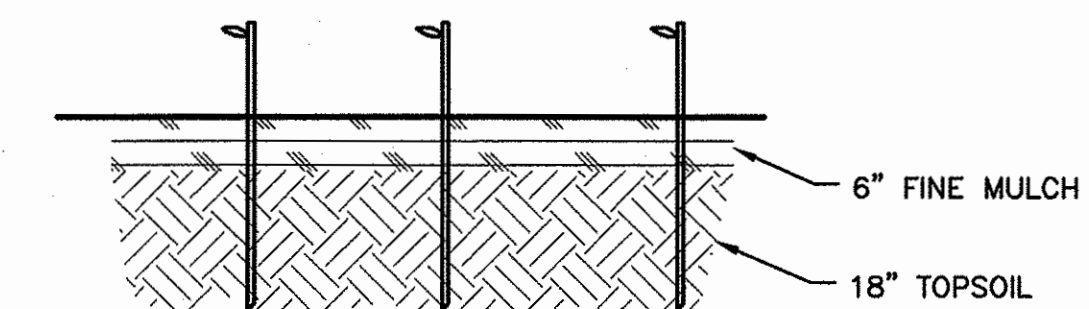
WILLOW PLANTING PLAN			
Species	Quantity	Size	Spacing
Native willow species, such as Coyote Willow	50 live stakes	18-24 inch long, >1/2 inch diameter	3 FT OC



ROCK CRIB SECTION
NOT TO SCALE

NOTES:

1. INTERLOCK LOGS BY NOTCHING LOGS 4 INCHES DEEP.
2. COCONUT HUSK TO BE WRAPPED AROUND QUARRY SPALLS, COMMON BORROW AND ANY PROTRUDING FACE OF THE STREAM.
3. COCONUT HUSK INSTALLED WITH STAPLES 8 INCHES ON CENTER



TYPICAL CUTTING SECTION
NOT TO SCALE

CUTTING NOTES:

1. CUT 1/4 TO 1 INCH DIAMETER PLANTS OR STEMS AND REMOVE ALL BRANCHES.
2. CUT THE STEMS WITH A KNIFE OR PRUNING SHEARS INTO 24 TO 36 INCH LENGTHS.
3. MAKE A HORIZONTAL CUT ON THE END WHICH WILL REMAIN EXPOSED AND A 45 DEGREE ANGLE CUT ON THE END TO BE PLANTED. MAKE SURE BUDS ON THE PLANT FACE UP.
4. PUSH CUTTING DIRECTLY ONTO SOIL OR CREATE A PILOT HOLE BY POUNDING A PIECE OF REBAR INTO SOIL, AND THEN PUSH IN THE CUTTING.
5. ONLY 4 TO 8 INCHES OF STEM SHOULD BE EXPOSED.

WASHINGTON DEPARTMENT OF
FISH & WILDLIFE



SYM	DATE	REVISION DESCRIPTION	BY
		APPROVED AND RELEASED FOR CONSTRUCTION	
CHIEF ENGINEER			DESIGNED BY H. KNECHTEL
PROGRAM			CHECKED BY ---
			DRAWN BY N. WHITE
			DATE 3-23-2022

CHIEF JOESPH WLA – CHIEF JOESPH UNIT

ROAD STABILIZATION PHASE 2
ROCK CRIB PLAN AND DETAILS

PROJECT NO.
AN:R38:2019-2

SHEET
3

OF
3