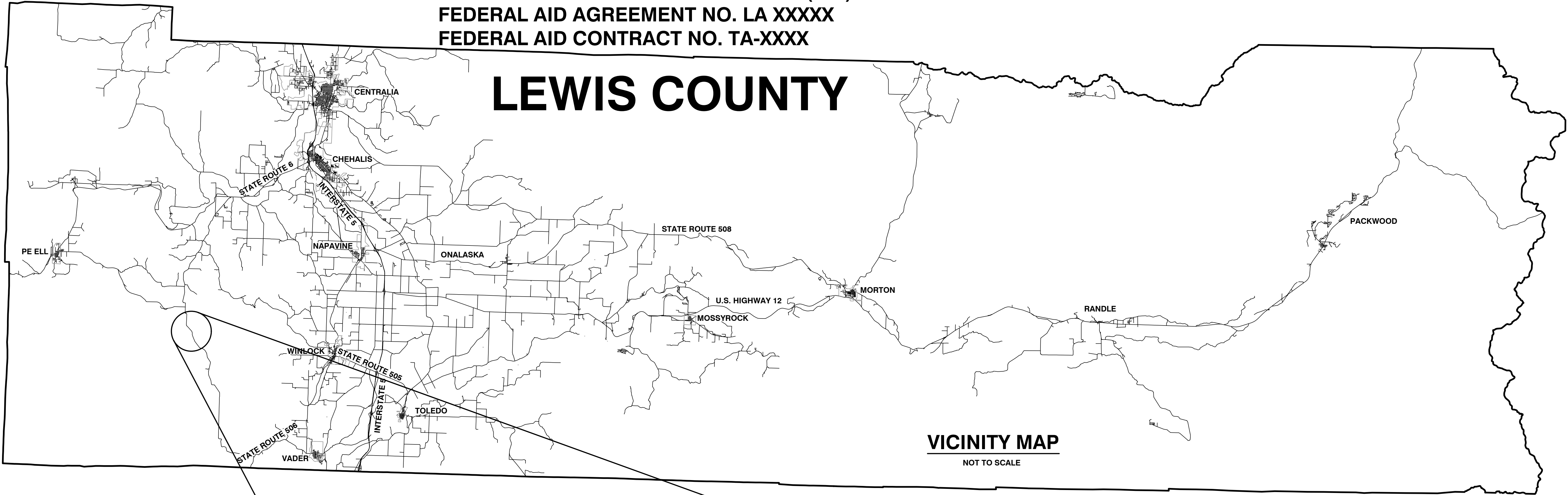


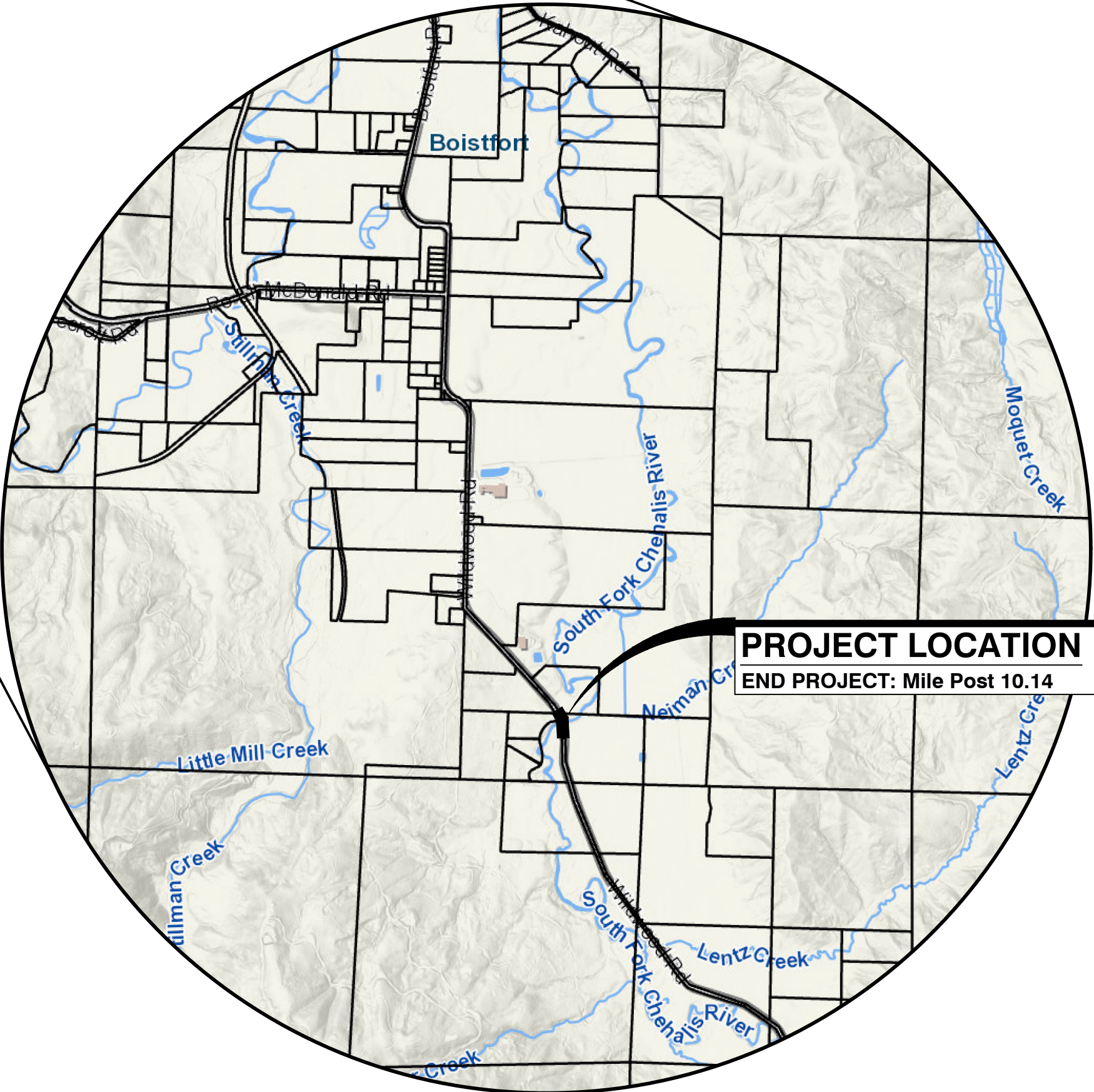
WILDWOOD RD MP 10.14 BRIDGE SCOUR REPAIR

COUNTY ROAD PROJECT NO: 2159S
FEDERAL AID PROJECT NO. BHS-A211(004)
FEDERAL AID AGREEMENT NO. LA XXXXX
FEDERAL AID CONTRACT NO. TA-XXXX

90% CONSTRUCTION PLANS



VICINITY MAP
NOT TO SCALE



LEWIS COUNTY
DEPARTMENT OF PUBLIC WORKS
APPROVED FOR CONSTRUCTION:

Assistant County Engineer _____ Date _____

COMMISSIONERS:

SEAN D. SWOPE, DISTRICT 1
LINDSEY R. POLLOCK, DVM, DISTRICT 2
SCOTT J. BRUMMER, DISTRICT 3

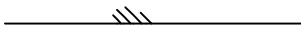
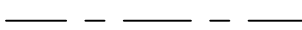
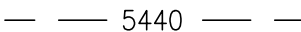
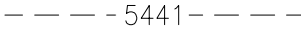
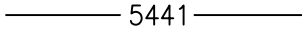
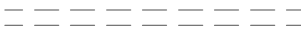
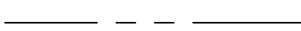
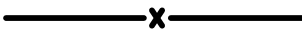
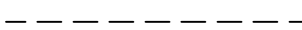


ENGINEERING-
DESIGN SECTION

SHEET INDEX

SHEET NO.	DESCRIPTION
1	VICINITY MAP AND SHEET INDEX
2	GENERAL NOTES & LEGEND
3	SURVEY CONTROL
4	SITE PREPARATION & TEMPORARY EROSION CONTROL PLAN
5	TEMPORARY STREAM DIVERSION PLAN
6	TEMPORARY STREAM DIVERSION DETAILS
7	SCOUR COUNTERMEASURE PLAN
8	SCOUR COUNTERMEASURE PROFILE
9	SCOUR COUNTERMEASURE DETAILS
10	SCOUR COUNTERMEASURE DETAILS
11	STREAM RECONSTRUCTION PLAN
12	STREAM RECONSTRUCTION DETAILS
13	PLANTING PLAN
14	PLANTING DETAILS
15	TRAFFIC CONTROL PLAN

LEGEND

GENERAL LINETYPES		
LINETYPE		DESCRIPTION
EXISTING	PROPOSED	
		EDGE OF PAVEMENT
		CENTER LINE
		OVERHEAD ELECTRIC
		5' CONTOUR
		1' CONTOUR
		STORM/CULVERT LINE
		DITCH CENTER LINE
		WETLAND BOUNDARY
		ORDINARY HIGH WATER
		RIGHT OF WAY LINE
		PROPERTY LINE
		GATE
		FENCE
		SAWCUT LINE
		HIGH VISIBILITY SILT FENCE
		MATCH LINE (GRADING LIMITS)
		PROJECT DISTURBANCE LIMITS
		TEMPORARY CONSTRUCTION EASEMENT

OTHER GENERAL SYMBOLS	
SYMBOLS	DESCRIPTION
	SURVEY TOPO SHOT
	A = POINT ID
	B = POINT DESCRIPTION
	C = POINT ELEVATION
	SURVEY TRAVERSE POINT
	FLOW ARROW

HATCH KEY	
SYMBOLS	DESCRIPTION
	ROADWAY REMOVAL AND REPLACEMENT
	CONSTRUCTION AREA
	CRUSHED SURFACING BASE COURSE
	PROTECTED SLOPE

SURFACE/LANDSCAPE SYMBOLS		
SYMBOLS		DESCRIPTION
EXIST.	PROP.	
		DECIDUOUS TREE
		CONIFEROUS TREE
		SIGN

OTHER UTILITY SYMBOLS		
SYMBOLS		DESCRIPTION
EXIST.	PROP.	
		GUY ANCHOR
		POWER POLE

ABBREVIATIONS

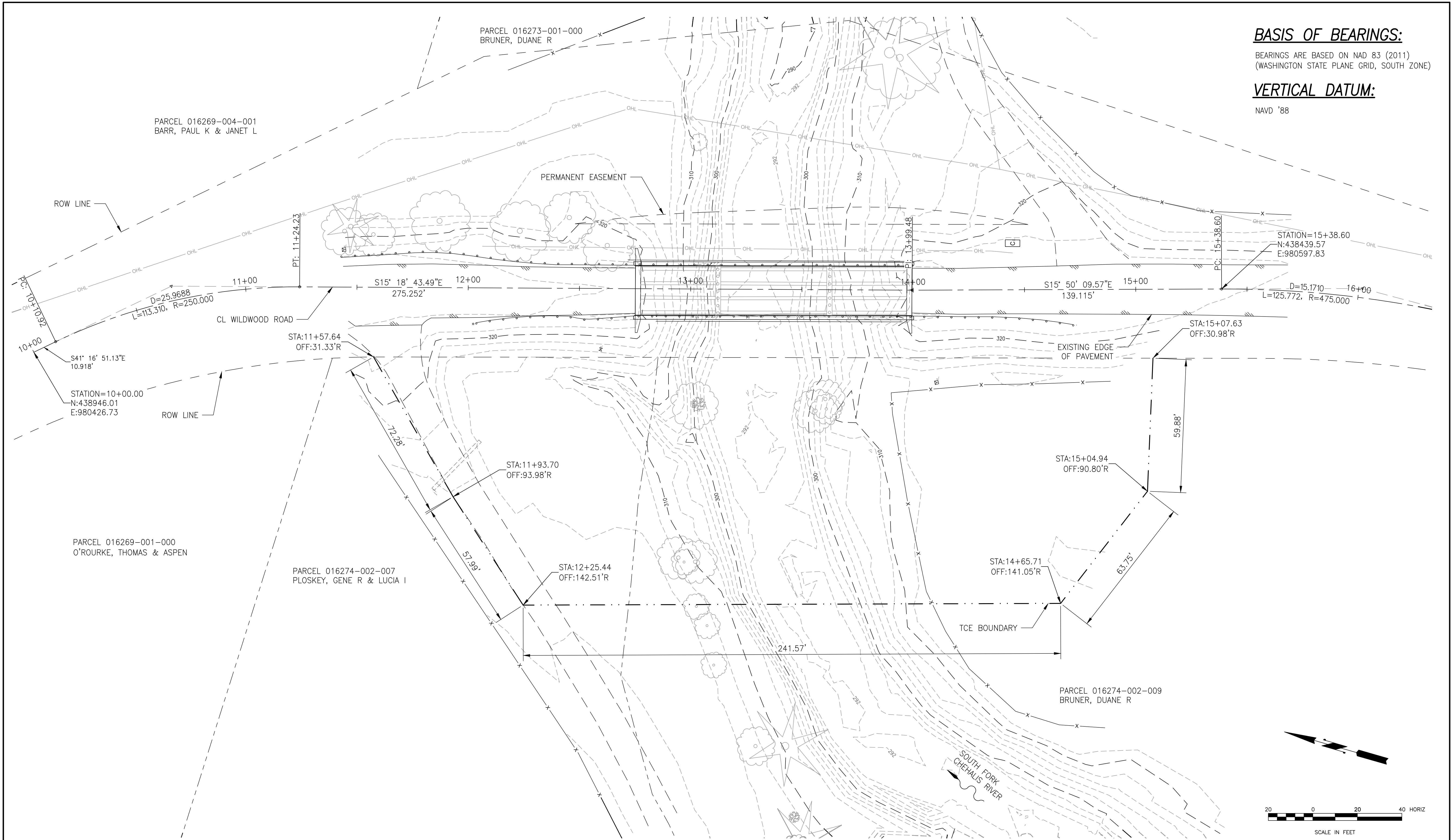
APPRX	=	APPROXIMATE
CL	=	CENTERLINE
CONC	=	CONCRETE
DBH	=	DIAMETER AT BREAST HEIGHT
DBL	=	DOUBLE
DCDES	=	DEPARTMENT OF COMMUNITY DEVELOPMENT, ENGINEERING SERVICES
DIA	=	DIAMETER
EX	=	EXISTING
EL	=	ELEVATION
FG	=	FINISHED GRADE
HMA	=	HOT MIX ASPHALT
HORIZ	=	HORIZONTAL
LF	=	LINEAR FEET
MAX	=	MAXIMUM
MIN	=	MINIMUM
OC	=	ON CENTER
OHL	=	OVERHEAD LINE
OHW	=	ORDINARY HIGH WATER
R	=	RADIUS
RD	=	ROAD
S	=	SLOPE
SB	=	STREAM BANK
ST	=	STREET
STA	=	STATION
TEMP	=	TEMPORARY
TYP	=	TYPICAL
VERT	=	VERTICAL

BASIS OF BEARINGS:

BEARINGS ARE BASED ON NAD 83 (2011)
(WASHINGTON STATE PLANE GRID, SOUTH ZONE)

VERTICAL DATUM:

NAVD '88



EROSION CONTROL NOTES:

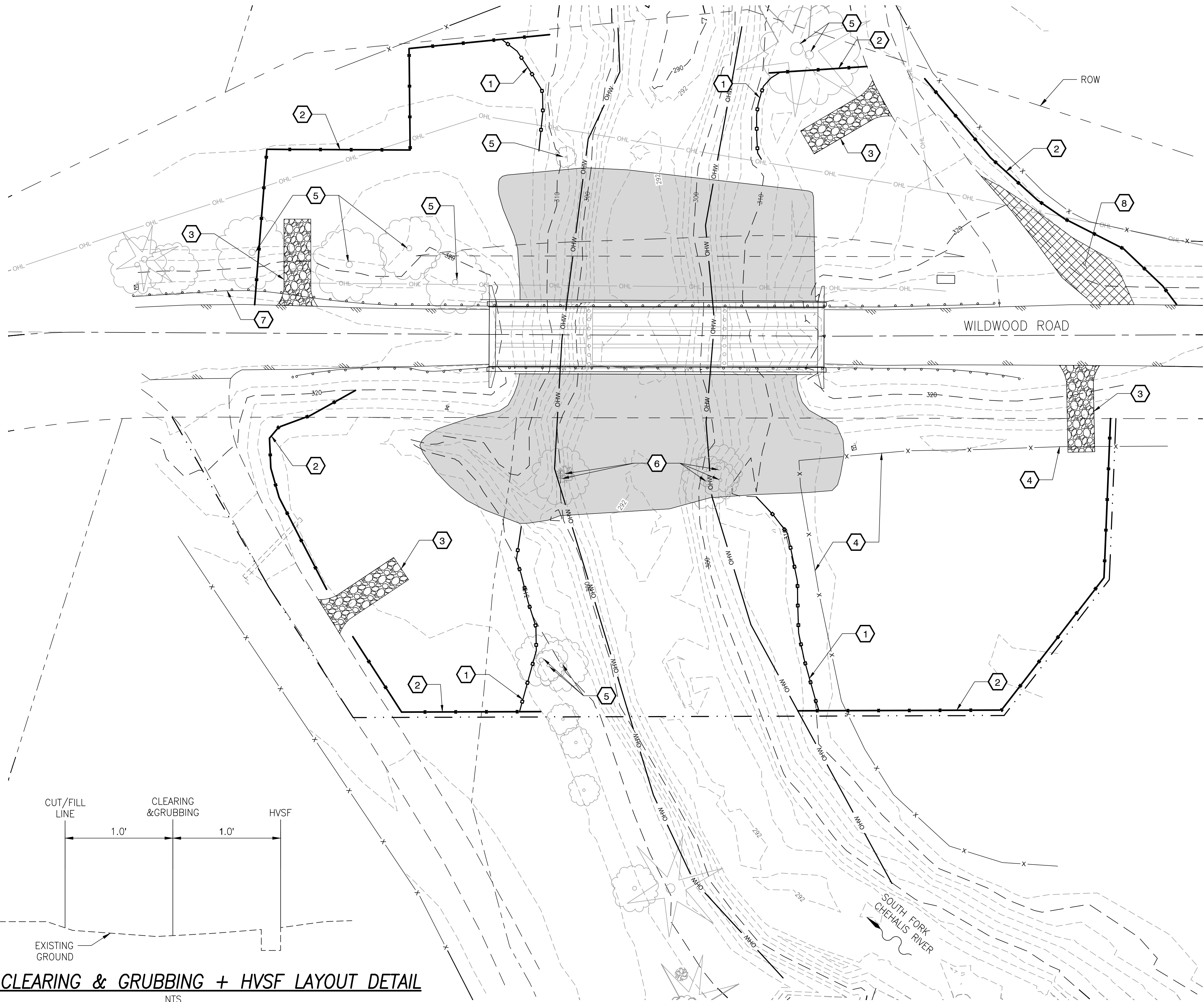
1. THE IMPLEMENTATION OF THIS TESC PLAN AND CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE CONSTRUCTION SWPPP FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL WORK IS COMPLETED AND APPROVED.
2. THE BMP'S SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE BMP'S SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
3. THE BMP'S SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTION. THE CONSTRUCTION SWPPP FACILITIES ON INACTIVE SITE SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A MAJOR STORM EVENT.
4. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM PER WASHINGTON STATE DEPARTMENT OF ECOLOGY'S STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON B-2 VOLUME II - CONSTRUCTION STORMWATER POLLUTION PREVENTION JULY 2019.
5. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

CONSTRUCTION NOTES:

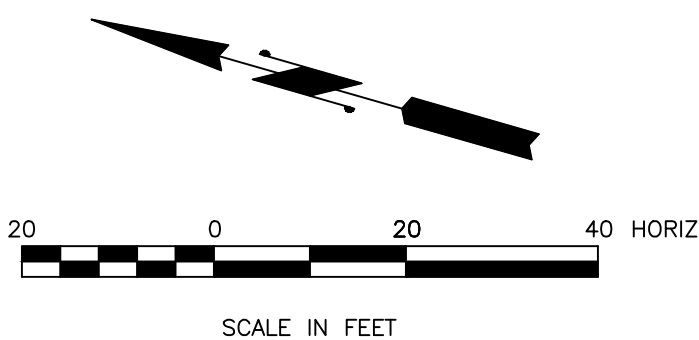
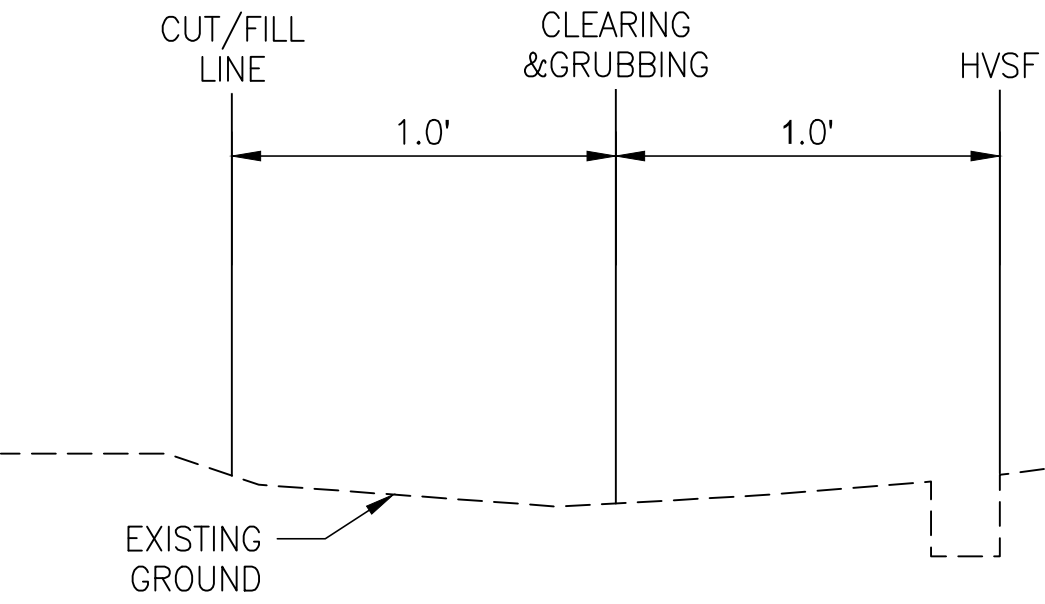
- 1 HIGH VISIBILITY SILT FENCE PER WSDOT STANDARD PLAN 1-30.17
- 2 HIGH VISIBILITY FENCE PER WSDOT STANDARD PLAN 1-10.10
- 3 STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STANDARD PLAN 1-80.10
- 4 REMOVE AND REPLACE PORTION OF FENCE
- 5 PROTECT TREE
- 6 REMOVE TREE
- 7 REMOVE AND REPLACE A PORTION OF THE GUARDRAIL
- 8 APPROACH WIDENING, SEE DETAILS XX

LEGEND

- STABILIZED CONSTRUCTION ENTRANCE
- APPROACH WIDENING
- PROTECTED SLOPE
- HIGH VISIBILITY SILT FENCE
- HIGH VISIBILITY FENCE
- TEMPORARY CONSTRUCTION EASEMENT
- OHW ORDINARY HIGH WATER



TYPICAL CLEARING & GRUBBING + HVSF LAYOUT DETAIL



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PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY :
DRAWN BY :
CHECKED BY :
DATE :

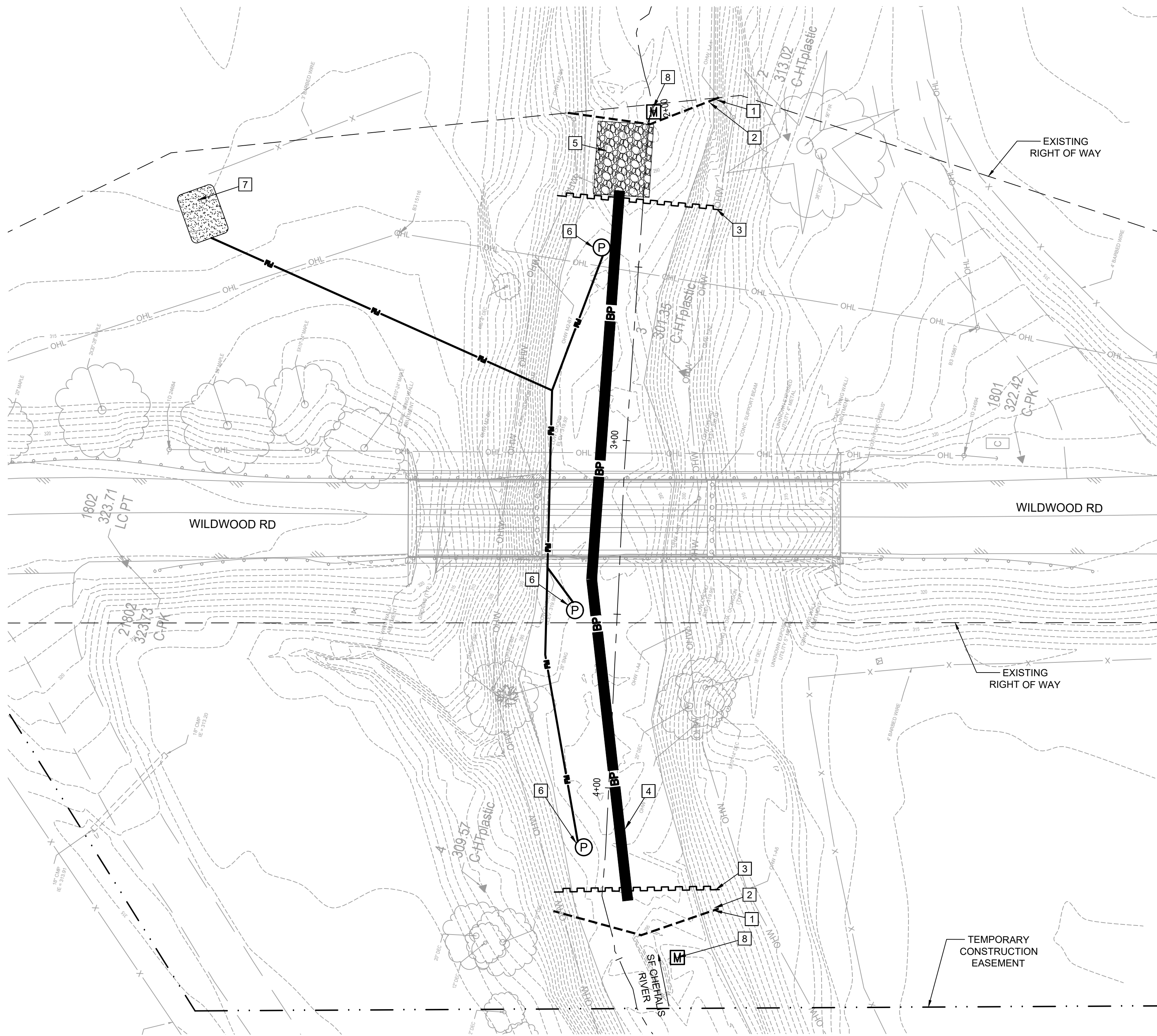
NO.	DATE	REVISION	BY	APP.

WILDWOOD MP 10.14 BRIDGE
SCOUR REPAIR

90% CONSTRUCTION PLANS
COUNTY ROAD PROJECT NO: 2159S
SITE PREPARATION & TEMPORARY
EROSION CONTROL PLAN

SHEET
4
OF
15





GENERAL NOTE:

1. ALL MATERIAL AND WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" 2026 EDITION AND SPECIAL PROVISIONS.

TEMPORARY STREAM DIVERSION NOTES:

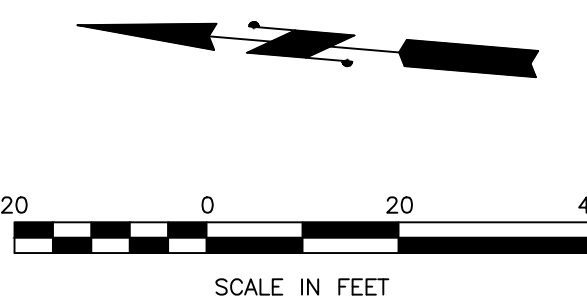
1. THE TEMPORARY STREAM DIVERSION SHOWN IS CONCEPTUAL. SEE SPECIAL PROVISIONS.
2. CONTRACTOR SHALL SUBMIT THE TEMPORARY STREAM DIVERSION PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL WITHIN 7 DAYS OF NOTICE TO PROCEED.
3. THE TEMPORARY STREAM DIVERSION SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING.
4. THE STREAM DIVERSION SYSTEM SHALL BE CAPABLE OF CONVEYING THE FLOW SPECIFIED IN THE CONTRACT DOCUMENTS.
5. FISH EXCLUSION AND FISH REMOVAL SHALL BE PERFORMED BY THE CONTRACTOR, BEFORE IN-WATER WORK IN ACCORDANCE WITH THE WASHINGTON DEPARTMENT OF FISH AND WILDLIFE HPA.

TEMPORARY STREAM DIVERSION KEY NOTES:

1. INSTALL FISH SCREEN. SEE DETAIL 2 ON SHEET 6.
2. CAPTURE AND REMOVE ALL FISH BETWEEN THE FISH SCREENS IN ACCORDANCE WITH THE HPA. FISH CAPTURE SHALL BE PERFORMED UNDER THE SUPERVISION OF AN EXPERIENCED FISHERY BIOLOGIST.
3. INSTALL COFFERDAM. SEE DETAIL 1 ON SHEET 6.
4. INSTALL TEMPORARY STREAM DIVERSION PIPE. ADJUST LOCATION OF DIVERSION PIPE AS NEEDED TO PERFORM WORK.
5. INSTALL OUTLET PROTECTION TO PREVENT EROSION AT TEMPORARY DIVERSION OUTFALL. OUTLET PROTECTION SHALL BE REMOVED WHEN CONSTRUCTION IS COMPLETE. SEE DETAIL 1 ON SHEET 6.
6. INSTALL DEWATERING PUMP(S) AND PIPES AS NEEDED DURING CONSTRUCTION. ADJUST LOCATION OF DEWATERING PUMPS AND PIPES AS NEEDED TO PERFORM WORK.
7. INSTALL FILTER BAG FOR SEDIMENT REMOVAL FROM ANY DEWATERING ACTIVITIES THAT MAY BE NECESSARY DURING CONSTRUCTION. SEE DETAIL 3 ON SHEET 6.
8. TURBIDITY MONITORING STATION. SEE SPECIAL PROVISIONS FOR TURBIDITY MONITORING REQUIREMENTS.

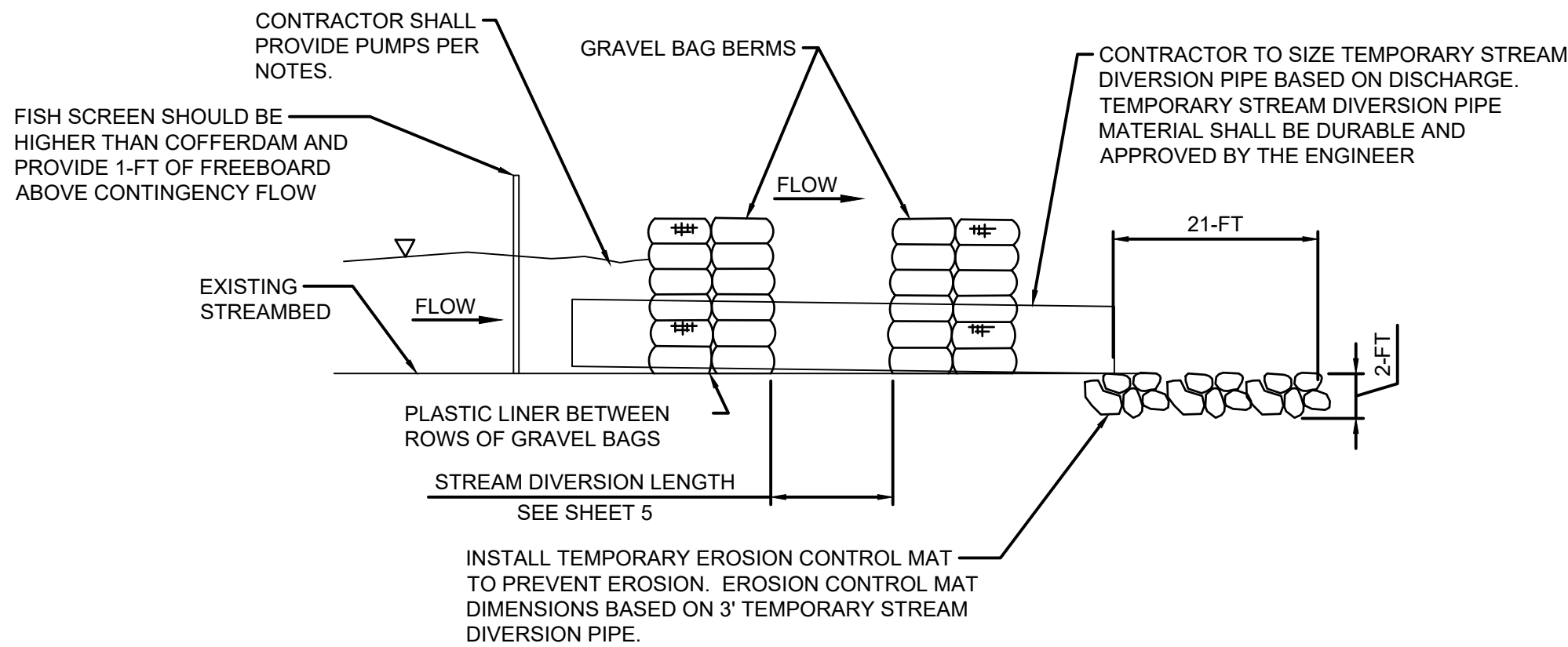
LEGEND

- COFFER DAM
- FISH SCREEN
- CONCEPTUAL 36-IN SMOOTH BORE HDPE GRAVITY BYPASS PIPE FOR THE TEMPORARY STREAM DIVERSION
- FORCE MAIN
- PUMP
- MONITORING WELL
- TEMPORARY QUARRY SPALLS
- FILTER BAG

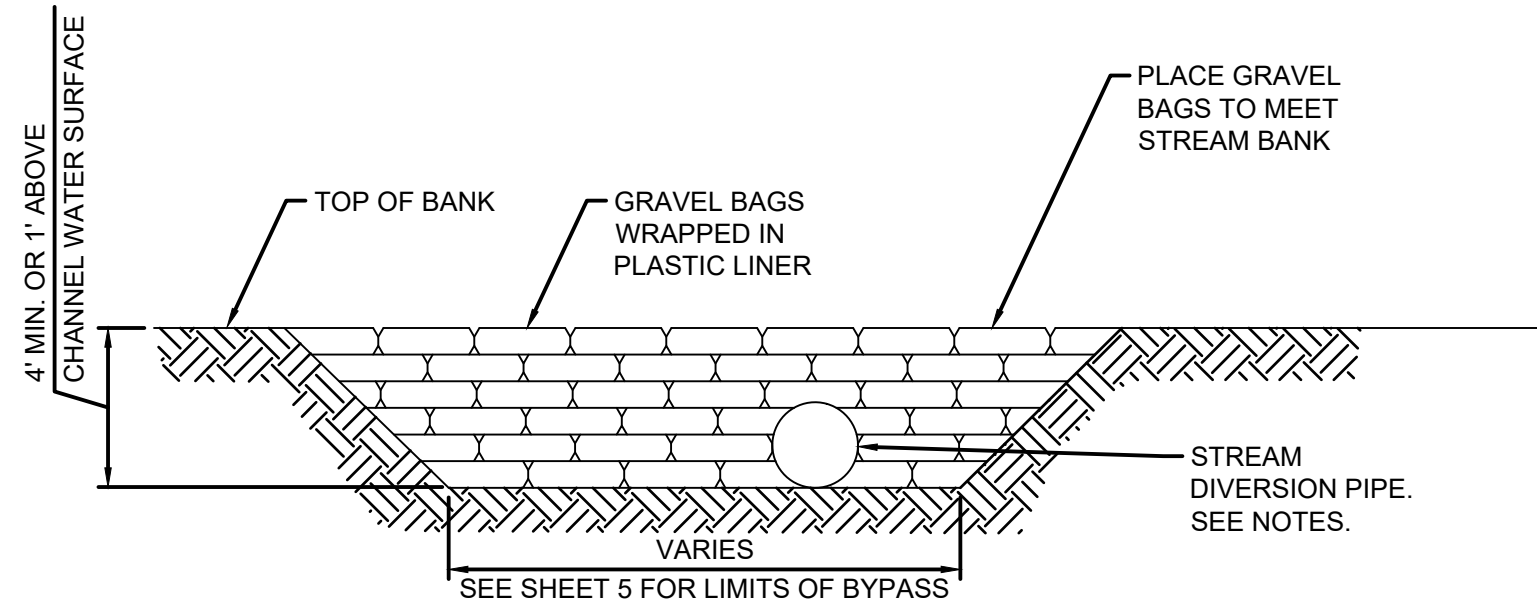


GENERAL NOTE:

1. THE TEMPORARY STREAM DIVERSION DETAILS SHOWN ARE CONCEPTUAL. SEE SPECIAL PROVISIONS.



SIDE VIEW



FRONT VIEW

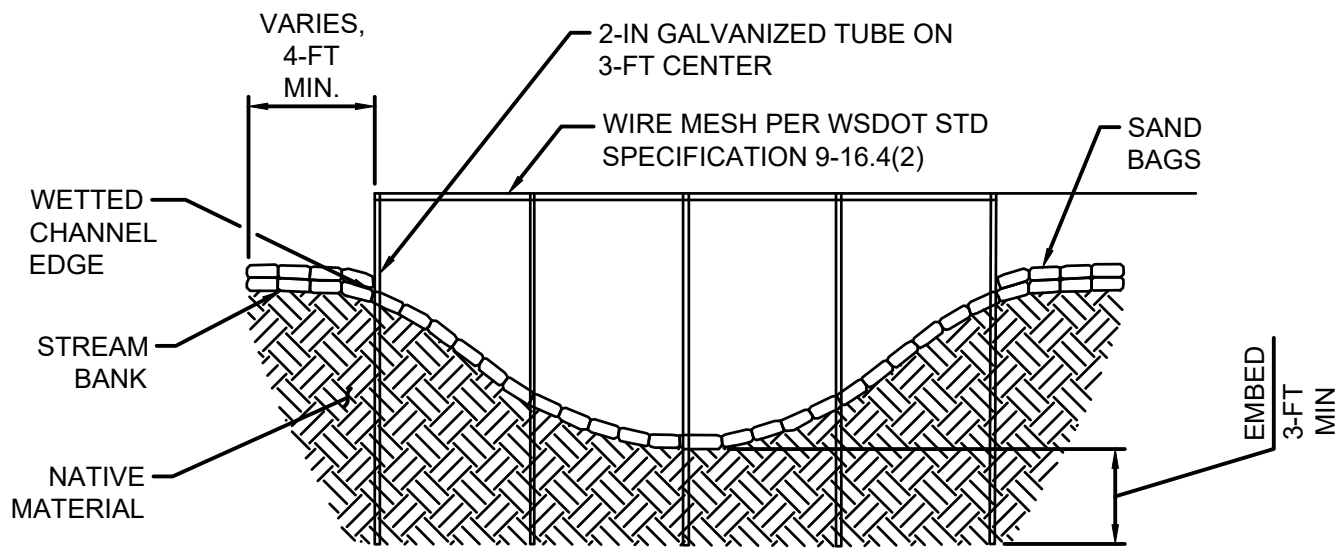
NOTES:

1. COFFERDAM SHALL BE CONSTRUCTED BY THE CONTRACTOR WITH ROUNDED PEA GRAVEL BAGS, OR OTHER MEANS PRE-APPROVED BY THE ENGINEER. GRAVEL BAGS SHALL BE CONSTRUCTED OF WOVEN SYNTHETIC FIBER. NO ANGULAR OR CRUSHED MATERIALS MAY BE USED. GRAVEL BAGS SHALL BE WASTEHAULED AFTER REMOVAL OF TEMPORARY STREAM DIVERSION.
2. THE HEIGHT AND WIDTH OF THE COFFERDAM SHALL BE DETERMINED BY THE CONTRACTOR BASED ON THE WATER SURFACE ELEVATION AND CHANNEL SHAPE AT THE TIME OF CONSTRUCTION. THE COFFERDAMS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER. THE AVERAGE MAXIMUM DAILY FLOW AND MAXIMUM DAILY FLOW DURING THE IN-STREAM WORK WINDOW FROM USGS GAGE #12021000 IS 31 CFS (BASE FLOW) AND 118 CFS (CONTINGENCY FLOW), RESPECTIVELY.
3. REMOVE LOOSE COBBLES AND BOULDERS FROM THE STREAMBED PRIOR TO INSTALLING COFFERDAM.
4. EXTEND BOTH ENDS OF THE COFFERDAM UP THE BANKS OF THE CHANNEL AS NEEDED TO PREVENT THE STREAM FROM END-RUNNING THE COFFERDAM.
5. COFFERDAM SHALL BE MAINTAINED BY THE CONTRACTOR AND IMPROVED AS NECESSARY AND DIRECTED BY THE ENGINEER.
6. CONTRACTOR SHALL HAVE ON SITE, EMERGENCY DIVERSION PIPE AND APPURTENANCES IN THE EVENT OF HIGH FLOWS. SEE THE CONTRACT PROVISIONS AND HPA FOR ADDITIONAL INFORMATION ON TEMPORARY STREAM DIVERSION.
7. COFFERDAM MATERIALS SHALL BE REMOVED FROM THE SITE AND BECOME PROPERTY OF CONTRACTOR.

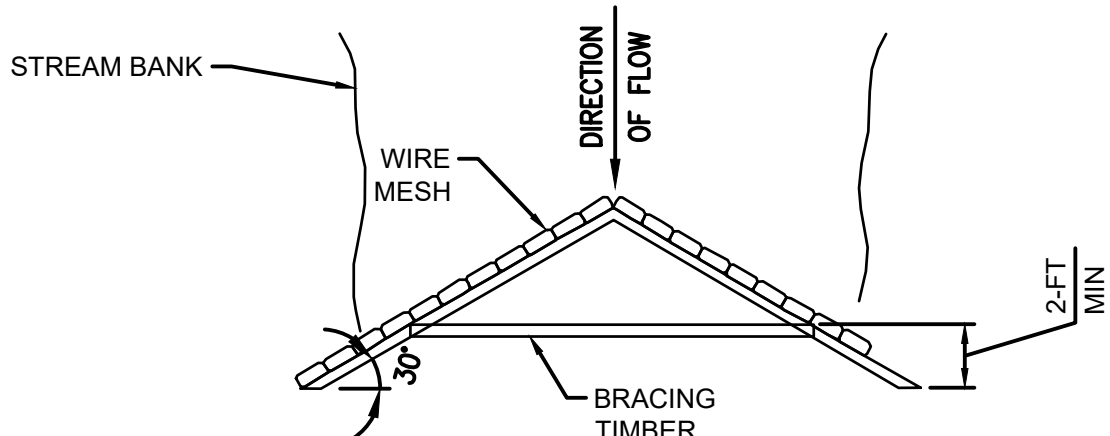


COFFER DAM DETAIL

NOT TO SCALE



FRONT VIEW



PLAN VIEW

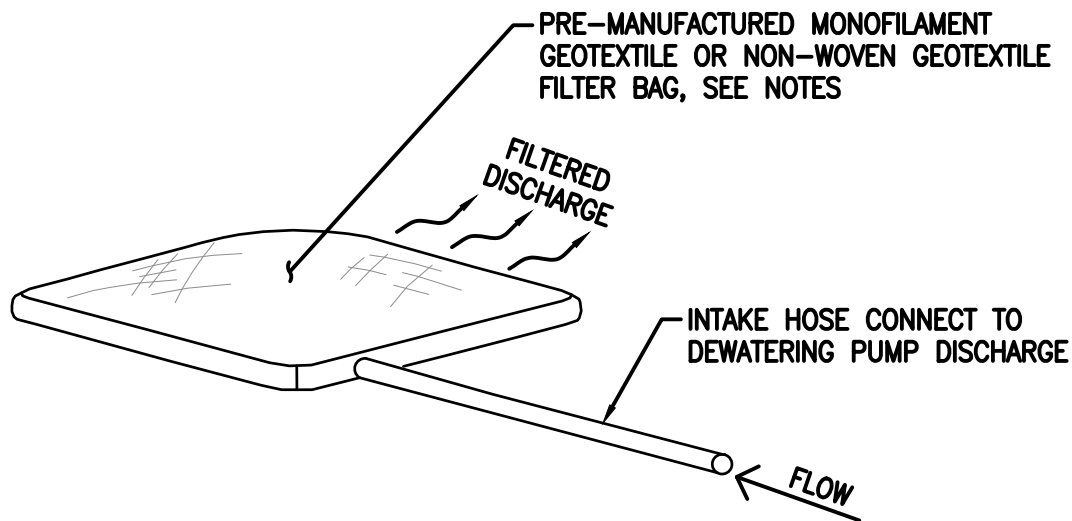
CONSTRUCTION SEQUENCE

1. INSTALL 2-IN GALVANIZED TUBES ON 3-FT CENTERS.
2. SECURE WIRE MESH TO 2-IN GALVANIZED TUBES WITH WIRE FASTENER.
3. SECURE 1/8-IN MAX FISH NYLON NET TO UPSTREAM SIDE OF WIRE MESH WITH WIRE FASTENER.
4. SECURE NYLON FISH NET TO STREAM BOTTOM WITH SAND BAGS.
5. EXTEND SAND BAGS 4-FT MIN INTO STREAM BANKS.
6. ADD BRACING TIMBER AS NEEDED TO SUPPORT THE SCREEN
7. REMOVAL OF DEBRIS FROM THE UPSTREAM SIDE OF THE FENCE IS NECESSARY OTHERWISE THE SCREEN WILL BECOME CLOGGED AND WATER MAY TOPPLE OR BREACH THE SCREEN.



FISH SCREEN DETAIL

NOT TO SCALE



NOTES:

1. FILTER BAG SHALL BE MINIMUM 10-FT X 15-FT AND REPLACED AS NEEDED TO ACCOMMODATE ACTUAL SEDIMENT LOAD CONDITIONS (I.E. VOLUME, TYPE OF SEDIMENT, ETC.)
2. DRAIN FILTER BAG TO COUNTY APPROVED RECEIVING AREA. RECEIVING AREA SHALL BE VEGETATED AND UPLAND OF THE OHWM AND TURBIDITY MONITORING STATION.
3. FILTER BAG SYSTEM TO BE INSPECTED DAILY WHEN IN USE TO VERIFY ADEQUATE PERFORMANCE.
4. TURBIDITY MONITORING STATION INSTALLED AND MAINTAINED. SEE SPECIAL PROVISIONS FOR TURBIDITY MONITORING REQUIREMENTS. SHOULD A TURBIDITY EXCEEDENCE OCCUR, THE FILTER BAG SYSTEM IS TO BE INSPECTED IMMEDIATELY AND REPLACED IF ANOTHER SEDIMENT SOURCE IS NOT IDENTIFIED.



FILTER BAG DETAIL

NOT TO SCALE



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PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : MNZ
DRAWN BY : JAR
CHECKED BY : LCR
DATE : MAR 2026

NO.	DATE	REVISION	BY	APP.

WILDWOOD MP 10.14 BRIDGE
SCOUR REPAIR

90% CONSTRUCTION PLANS
COUNTY ROAD PROJECT NO: 2159S
TEMPORARY STREAM DIVERSION DETAILS

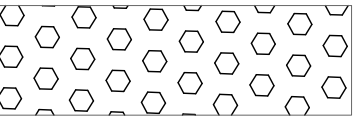
SHEET
6
OF
15



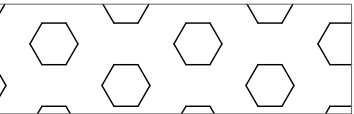
SCOUR COUNTERMEASURE NOTES:

- 1. SEE SCOUR COUNTERMEASURE LAYOUT TABLE ON THIS SHEET FOR LAYOUT POINTS AND TOP OF COUNTERMEASURE ELEVATIONS.
- 2. SEE SHEET 8 FOR SCOUR COUNTERMEASURE PROFILE.
- 3. SEE SHEETS 9 AND 10 FOR SCOUR COUNTERMEASURE SECTIONS.
- 4. MINIMIZE DISTURBANCE OF THE STREAMBED OUTSIDE OF THE SCOUR COUNTERMEASURE FOOTPRINT TO THE MAXIMUM EXTENT PRACTICABLE. STREAMBED OUTSIDE THE SCOUR COUNTERMEASURE LIMITS THAT IS DISTURBED SHALL BE RETURNED TO EXISTING CONDITIONS.
- 5. SEE SHEET 11 FOR ALIGNMENT LAYOUT TABLE.

LEGEND



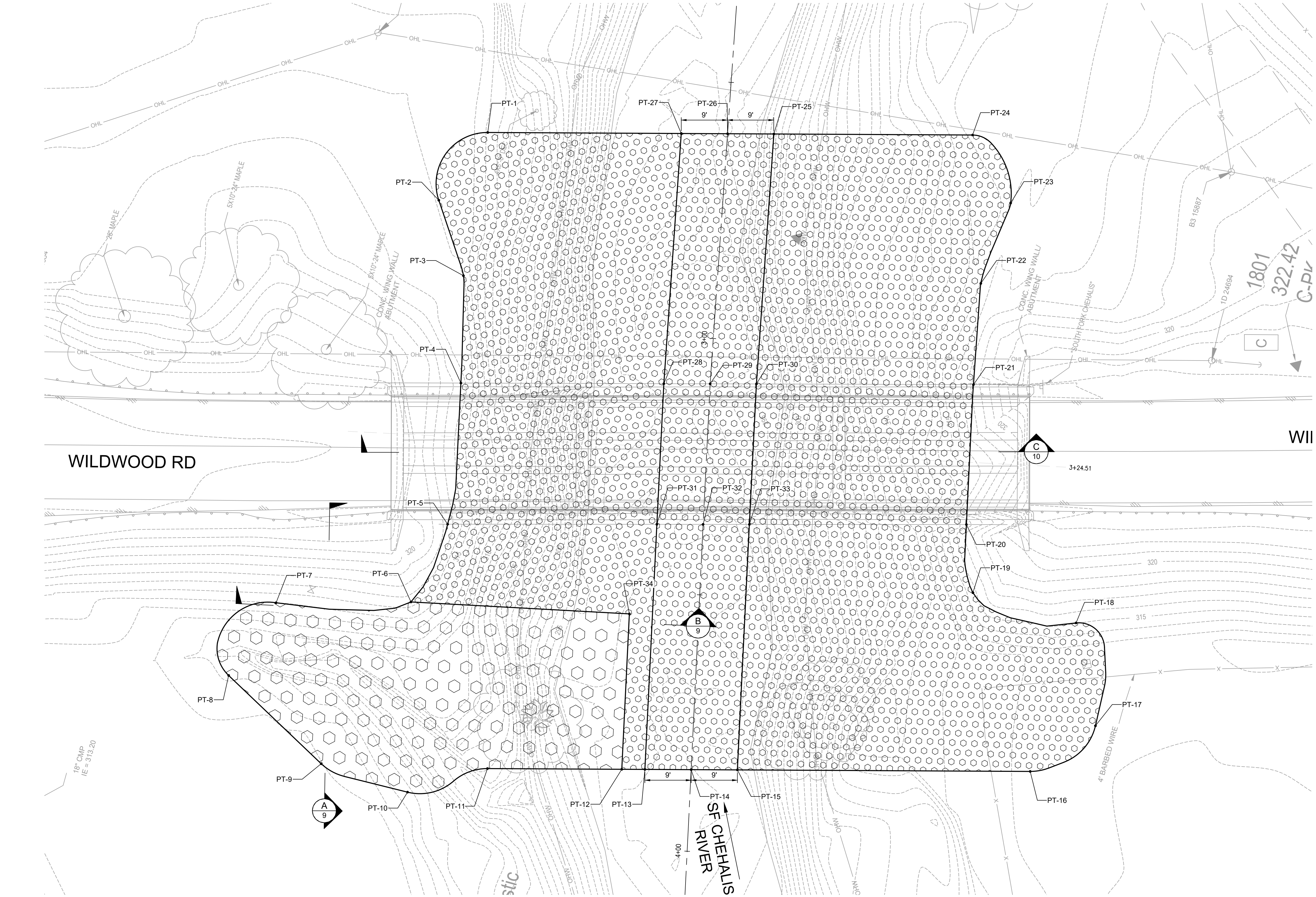
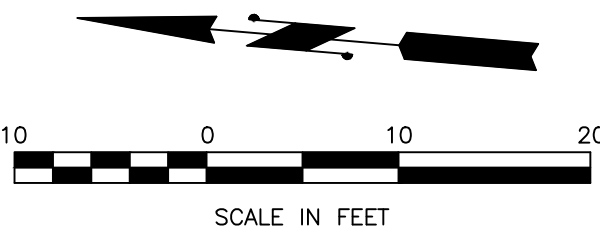
ROCK FOR EROSION AND SCOUR PROTECTION CLASS B, 3-FOOT THICKNESS



ROCK FOR EROSION AND SCOUR PROTECTION CLASS B, 6-FOOT THICKNESS

CONTROL POINT TABLE

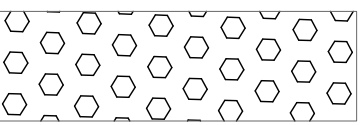
POINT ID	STA	OFFSET	TOP OF COUNTER MEASURE ELEVATION
PT-1	2+63.0	46.6' R	312.9'
PT-2	2+76.9	55.2' R	315.0'
PT-3	2+91.2	49.4' R	315.0'
PT-4	3+11.1	48.5' R	315.0'
PT-5	3+38.6	49.7' R	315.0'
PT-6	3+54.1	56.1' R	315.0'
PT-7	3+55.6	82.3' R	315.0'
PT-8	3+70.2	90.9' R	311.9'
PT-9	3+86.4	72.0' R	313.1'
PT-10	3+91.2	55.0' R	308.2'
PT-11	3+85.8	39.6' R	300.7'
PT-12	3+84.7	13.5' R	291.4'
PT-13	3+84.5	9.0' R	288.4'
PT-14	3+84.1	0.0' C	288.4'
PT-15	3+83.7	9.0' L	288.4'
PT-16	3+81.2	66.0' L	312.3'
PT-17	3+71.7	78.2' L	312.9'
PT-18	3+51.9	73.5' L	315.0'
PT-19	3+47.0	53.1' L	315.0'
PT-20	3+33.7	51.2' L	315.0'
PT-21	3+05.4	51.2' L	315.0'
PT-22	2+85.7	51.2' L	315.0'
PT-23	2+69.6	56.0' L	315.0'
PT-24	2+57.0	47.6' L	314.1'
PT-25	2+59.5	9.0' L	287.9'
PT-26	2+60.0	0.0' C	287.9'
PT-27	2+60.6	9.0' R	287.9'
PT-28	3+09.3	9.0' R	288.1'
PT-29	3+08.9	0.0' C	288.1'
PT-30	3+08.3	9.0' L	288.1'
PT-31	3+36.7	9.0' R	288.1'
PT-32	3+36.3	0.0' C	288.1'
PT-33	3+35.8	9.0' L	288.1'
PT-34	3+54.4	13.5' R	291.2'



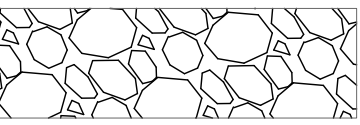
GENERAL NOTES:

- 1. ALL MATERIAL AND WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" 2026 EDITION AND SPECIAL PROVISIONS.
- 2. SEE SHEETS 9 AND 10 FOR TYPICAL SCOUR COUNTERMEASURE AND STREAM RECONSTRUCTION SECTION.
- 3. SEE SHEET 12 FOR LARGE WOODY MATERIAL DETAILS.

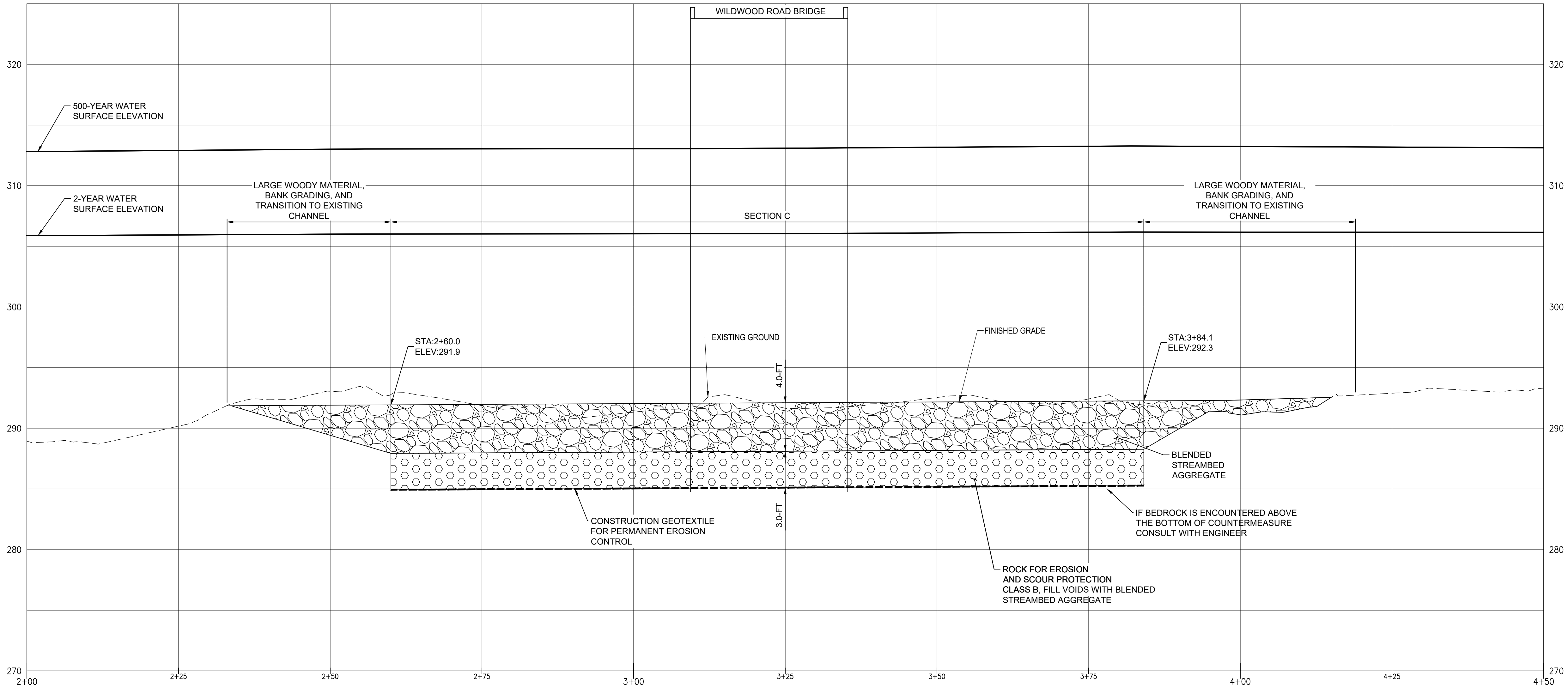
LEGEND



ROCK FOR EROSION AND SCOUR PROTECTION CLASS B, 3-FOOT THICKNESS



BLENDED STREAMBED AGGREGATE



PROFILE VIEW

H: 1"=10', V: 1"=5'



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DATE : MAR 2026

NO.	DATE	REVISION	BY	APP.

WILDWOOD MP 10.14 BRIDGE
SCOUR REPAIR

90% CONSTRUCTION PLANS
COUNTY ROAD PROJECT NO: 2159S

SCOUR COUNTERMEASURE PROFILE

SHEET

8
OF
15



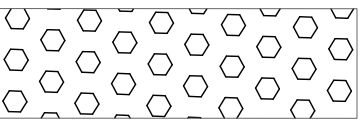
CALL 48 HOURS
BEFORE YOU DIG
1-800-
424-5555
"It's the Law"
Utilities
Underground
Location Center

Osborn
Consulting

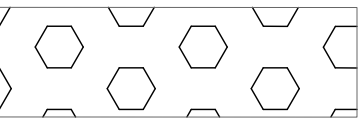
GENERAL NOTES:

1. BLENDED STREAMBED AGGREGATE IS 75% STREAMBED SEDIMENT AND 25% 4-INCH COBBLES. SEE STANDARD SPECIFICATION 8-30 "STREAMS, RIVERS, AND WATERBODIES."

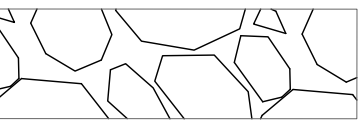
LEGEND



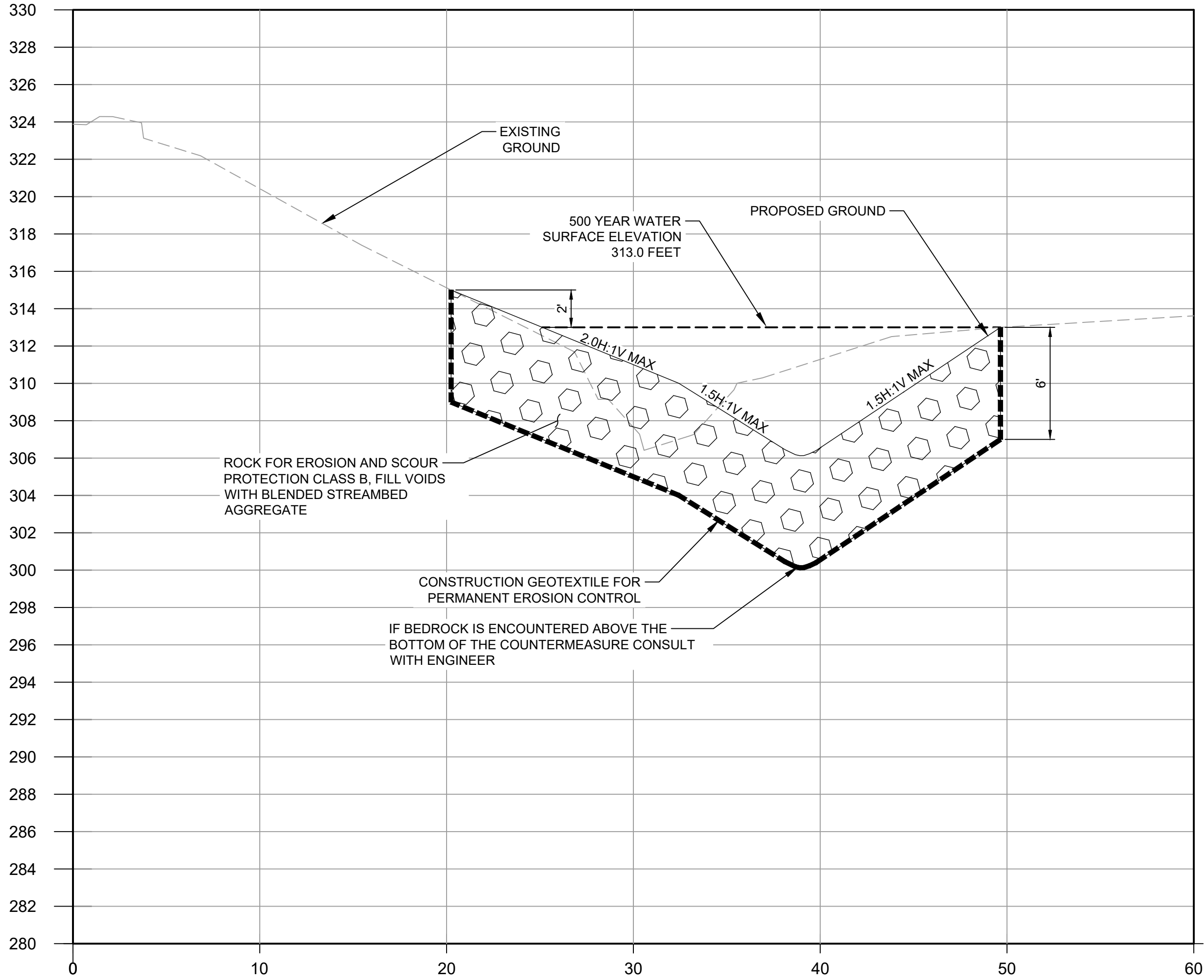
ROCK FOR EROSION AND SCOUR PROTECTION CLASS B, 3-FOOT THICKNESS



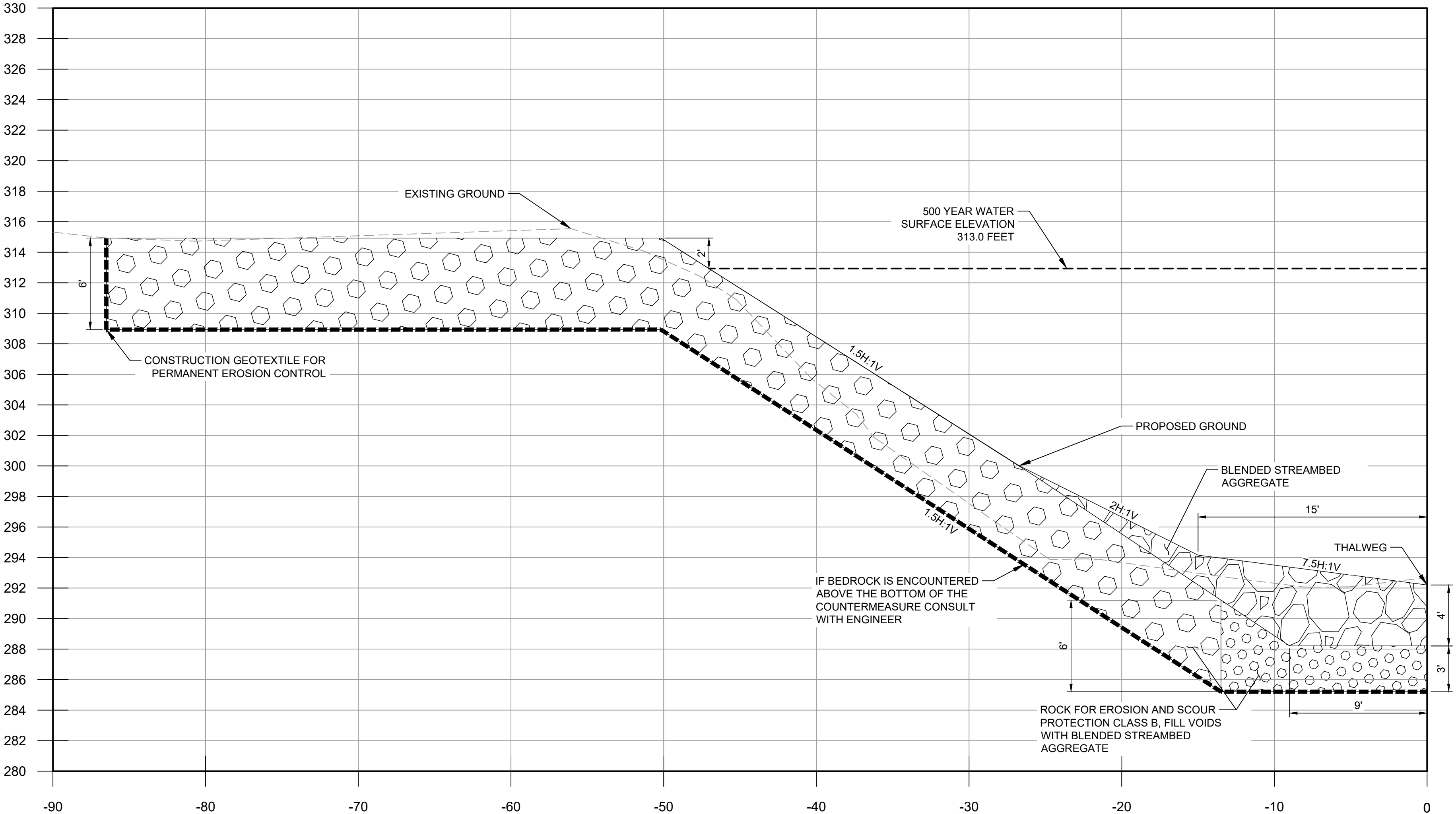
ROCK FOR EROSION AND SCOUR PROTECTION CLASS B, 6-FOOT THICKNESS



BLENDED STREAMBED AGGREGATE



SECTION A - SCOUR COUNTERMEASURE TYPICAL SECTION ALONG BRIDGE APPROACH

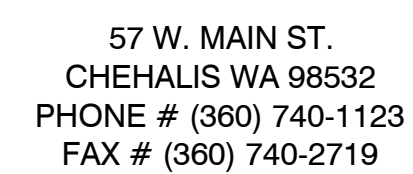


SECTION B - SCOUR COUNTERMEASURE TYPICAL SECTION WITH INCREASED RIPRAP THICKNESS

NO.	DATE	REVISION	BY	APP.

1. BLENDED STREAMBED AGGREGATE IS 75% STREAMBED SEDIMENT AND 25% 4-INCH COBBLES. SEE STANDARD SPECIFICATION 8-30 "STREAMS, RIVERS, AND WATERBODIES."

The diagram shows two rectangular boxes representing different aggregate types. The top box is labeled 'ROCK FOR EROSION AND SCOUR PROTECTION CLASS B, 3-FOOT THICKNESS' and contains a regular grid of small, uniform hexagonal shapes. The bottom box is labeled 'BLENDED STREAMBED AGGREGATE' and contains a cluster of larger, irregular, and non-uniform shapes representing natural streambed stones.

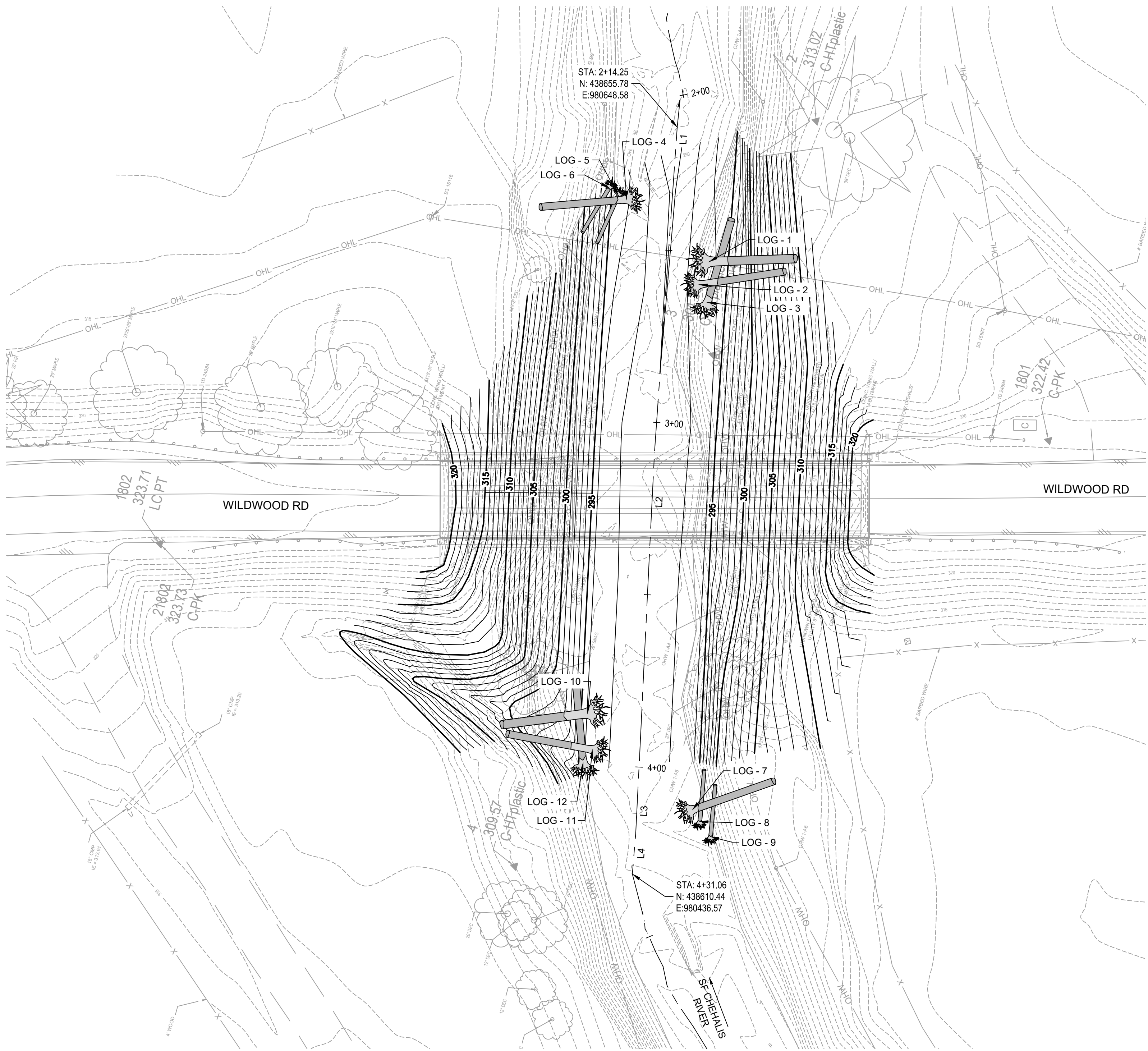


NO.	DATE	REVISION	BY	APP.

SCOUR COUNTERMEASURE DETAILS

10 OF 15

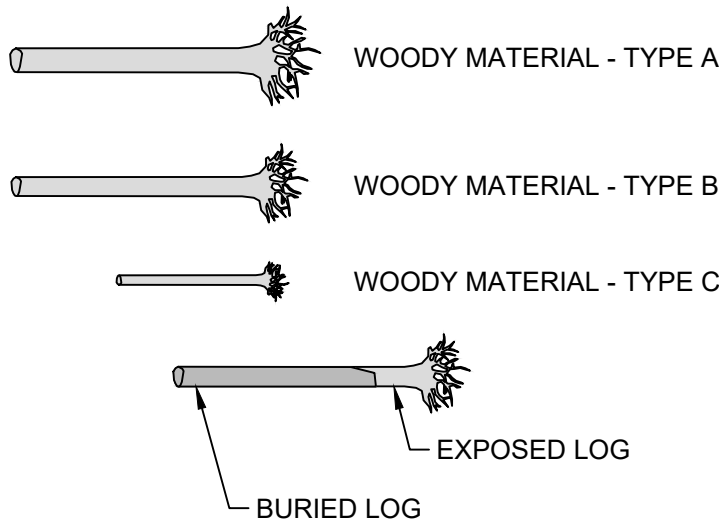




GENERAL NOTE:

1. ALL MATERIAL AND WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" 2026 EDITION AND SPECIAL PROVISIONS.
2. SEE SHEET 12 FOR LARGE WOODY MATERIAL DETAILS.
3. SEE SHEET 10 FOR TYPICAL STREAM SECTION.
4. SEE SHEET 8 FOR STREAM PROFILE.

LEGEND



LOG LAYOUT TABLE

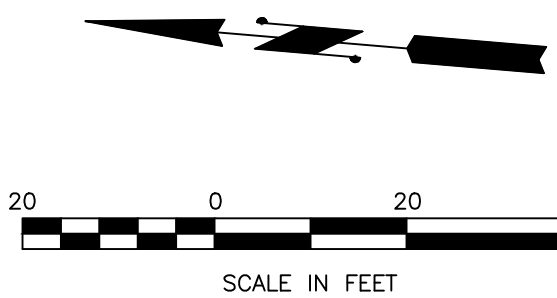
LOG ID	ROOTWAD CROWN STA OFFSET	ROOTWAD CROWN ELEVATION	LOG END STA OFFSET	LOG END ELEVATION	LWM TYPE AND DETAIL
1	2+52.5, 12.0' L	295.8'	2+49.9, 36.3' L	294.8'	LWM TYPE A, SEE DETAIL 1
2	2+59.3, 9.6' L	295.5'	2+53.9, 33.5' L	295.0'	LWM TYPE B, SEE DETAIL 1
3	2+64.3, 12.3' L	293.5'	2+40.3, 17.4' L	293.0'	LWM TYPE B, SEE DETAIL 1
4	2+36.1, 13.2' R	296.2'	2+40.0, 37.4' R	295.7'	LWM TYPE B, SEE DETAIL 2
5	2+35.1, 15.7' R	294.2'	2+49.0, 20.7' R	293.9'	LWM TYPE C, SEE DETAIL 2
6	2+33.2, 18.4' R	294.9'	2+46.3, 25.2' R	294.6'	LWM TYPE C, SEE DETAIL 2
7	4+11.6, 16.1' L	295.5'	4+02.3, 38.8' L	295.0'	LWM TYPE B, SEE DETAIL 2
8	4+14.9, 18.4' L	293.5'	4+00.1, 18.9' L	293.2'	LWM TYPE C, SEE DETAIL 2
9	4+19.1, 21.8' L	293.6'	4+04.3, 22.2' L	293.3'	LWM TYPE C, SEE DETAIL 2
10	3+85.2, 15.7' R	295.8'	3+89.3, 39.7' R	294.8'	LWM TYPE A, SEE DETAIL 1
11	3+95.6, 13.8' R	295.5'	3+92.3, 38.1' R	295.0'	LWM TYPE B, SEE DETAIL 1
12	3+99.5, 16.2' R	293.5'	3+74.9, 19.6' R	293.0'	LWM TYPE B, SEE DETAIL 1

LOG SCHEDULE

LOG TYPE	LOG SIZE	QUANTITY
A	25' LOG WITH ROOTWAD DBH 30"	2
B	25' LOG WITH ROOTWAD DBH 24"	6
C	15' LOG WITH ROOTWAD DBH 12"	4

CENTERLINE LINE DATA

NO.	BEARING	DISTANCE
L1	S78°28'57"W	94.60
L2	S77°20'46"W	27.41
L3	S77°22'10"W	21.16
L4	S79°12'38"W	11.96



57 W. MAIN ST.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY : MNZ
DRAWN BY : JAR
CHECKED BY : LCR
DATE : MAR 2026

NO.	DATE	REVISION	BY	APP.

WILDWOOD MP 10.14 BRIDGE
SCOUR REPAIR

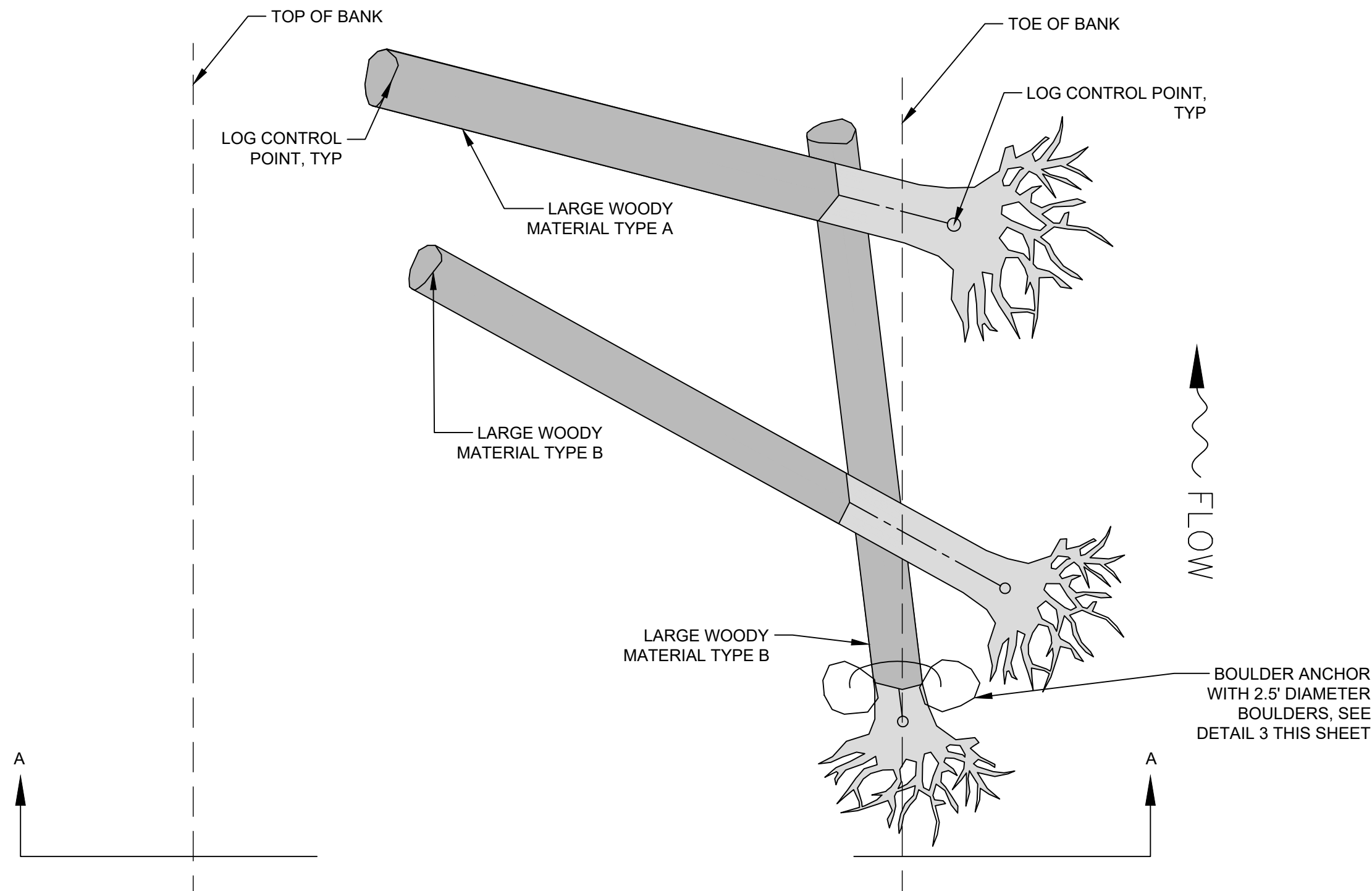
90% CONSTRUCTION PLANS
COUNTY ROAD PROJECT NO: 2159S
STREAM RECONSTRUCTION PLAN

SHEET
11
OF
15

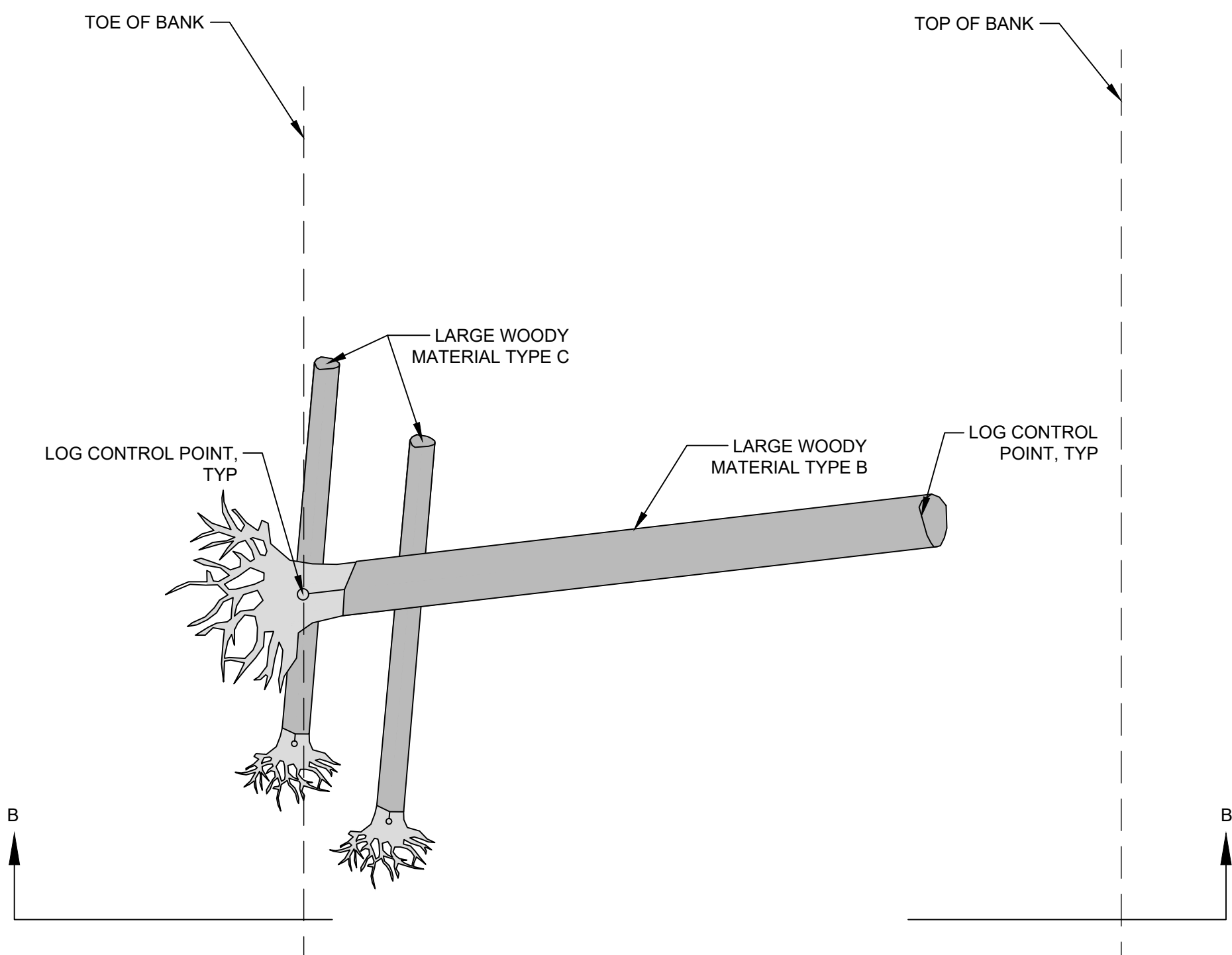


STREAM RECONSTRUCTION NOTES:

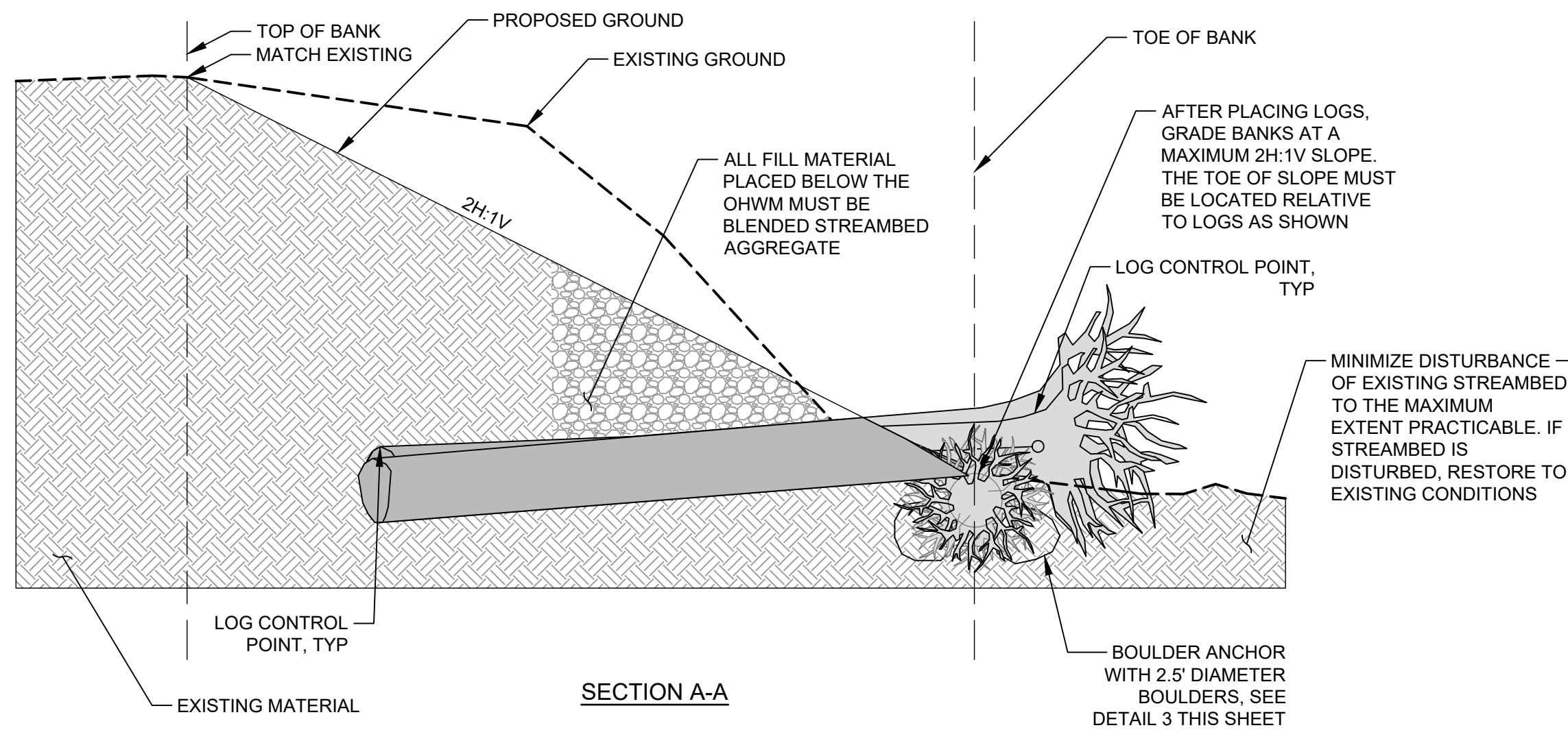
1. DETAILS SHOWN ON THIS SHEET MAY BE ROTATED OR MIRRORED. SEE SHEET 11 FOR LARGE WOODY MATERIAL (LWM) ORIENTATIONS.
2. SEE LWM LAYOUT TABLE AND LWM SCHEDULE ON SHEET 11 FOR LOG CONTROL POINTS, TOP OF LOG ELEVATIONS, AND LOG DIMMENSIONS.
3. SEE SPECIAL PROVISIONS 8-33 "LOG STRUCTURES" FOR LWM.
4. LOCATIONS AND ORIENTATIONS OF STREAMBED FEATURES ARE APPROXIMATE AND SHALL BE STAKED PER PLAN BY THE CONTRACTOR AND APPROVED BY THE FIELD STREAM DESIGN ENGINEER. FINAL LOCATION AND ORIENTATION OF THESE STREAMBED FEATURES SHALL BE APPROVED BY THE FIELD STREAM DESIGN ENGINEER.
5. BLENDED STREAMBED AGGREGATE IS 25% 4-INCH COBBLES AND 75% STREAMBED SEDIMENT. SEE STANDARD SPECIFICATIONS 8-30 "STREAM, RIVERS, AND WATERBODIES."
6. ALL LWM DETAIL SECTIONS ON THIS SHEET ARE LOOKING DOWNSTREAM.



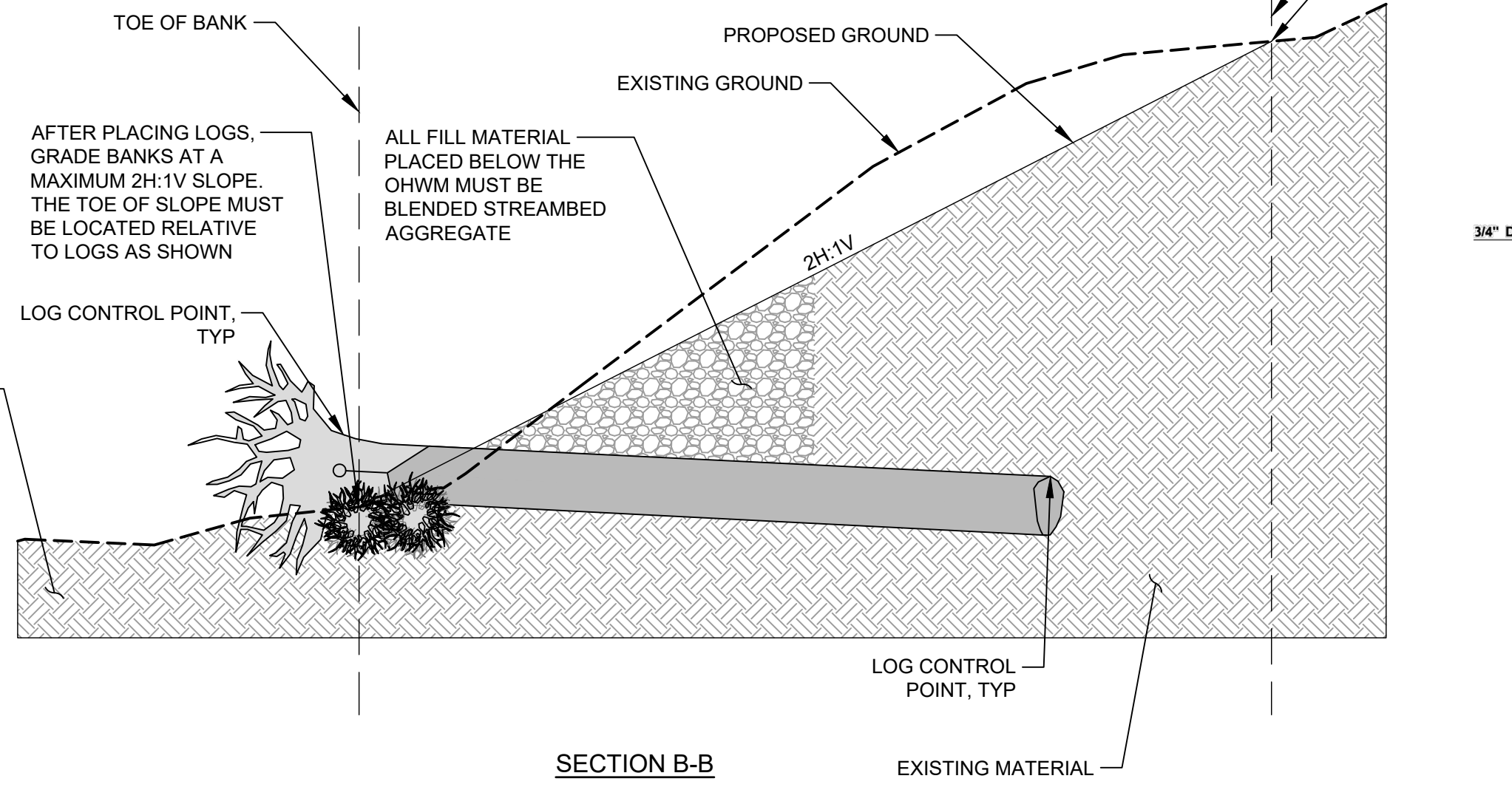
PLAN VIEW



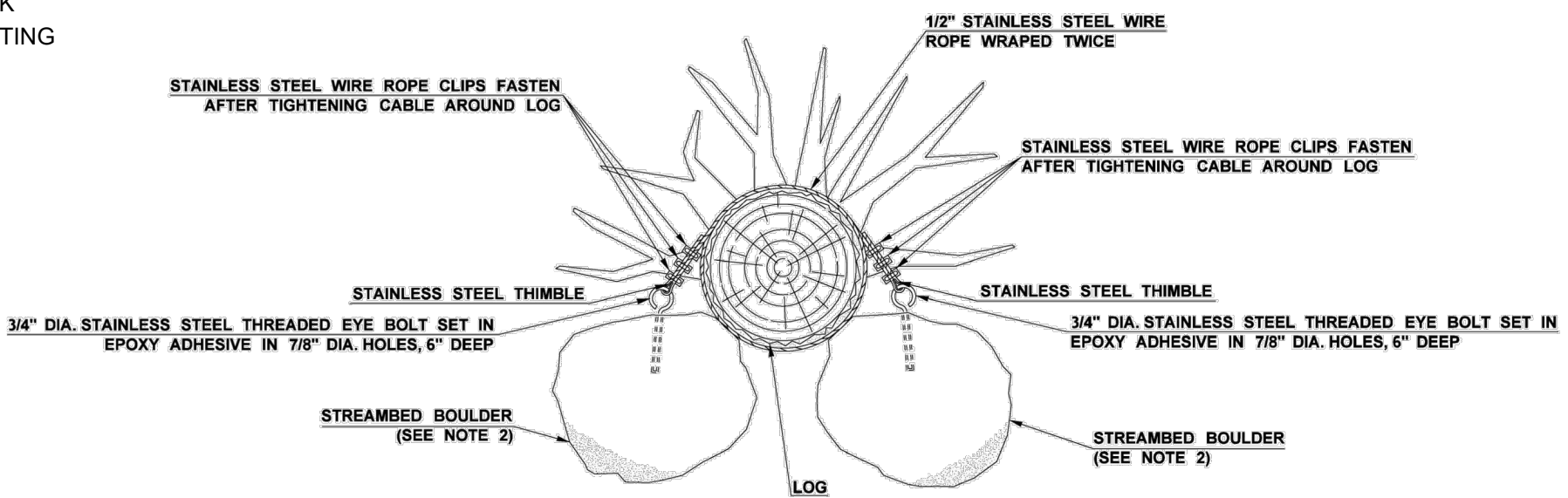
PLAN VIEW



SECTION A-A



SECTION B-B



NOTES:

1. SEE SPECIAL PROVISIONS "WOODY MATERIAL" FOR DESCRIPTION OF MATERIALS AND CONSTRUCTION REQUIREMENTS.
2. SEE STANDARD SPECIFICATIONS 8-30 "WATER CROSSINGS" FOR BOULDER DESCRIPTION.

1
11
LARGE WOODY MATERIAL (LWM) LOG JAM - DETAIL 1
NOT TO SCALE

2
11
LARGE WOODY MATERIAL (LWM) LOG JAM - DETAIL 2
NOT TO SCALE

3
12
BOULDER ANCHOR - DETAIL 3
NOT TO SCALE

NO.	DATE	REVISION	BY	APP.

CONSTRUCTION NOTES:

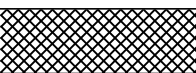
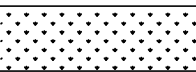
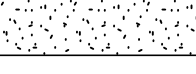
- 1
- LIVE STAKES
- RIPARIAN SEED MIX AND PLANTING
- PLACE 12 INCHES OF TYPE B TOPSOIL
- PLACE 24 DIAM. MULCH RING AT TREES/SHRUBS
- INSTALL BROWSE PROTECTORS
- 2
- 3
- UPLAND SEED MIX AND PLANTING
- PLACE 12 INCHES OF TYPE B TOPSOIL
- PLACE 24 DIAM. MULCH RING AT TREES/SHRUBS
- INSTALL BROWSE PROTECTORS
- 4
- UPLAND SEED MIX
- PLACE 4 INCHES OF TYPE B TOPSOIL

NOTE: ALL PLANTING WORK PAID WITH 'LANDSCAPE RESTORATION' BID ITEM

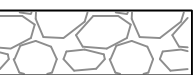
GENERAL NOTES:

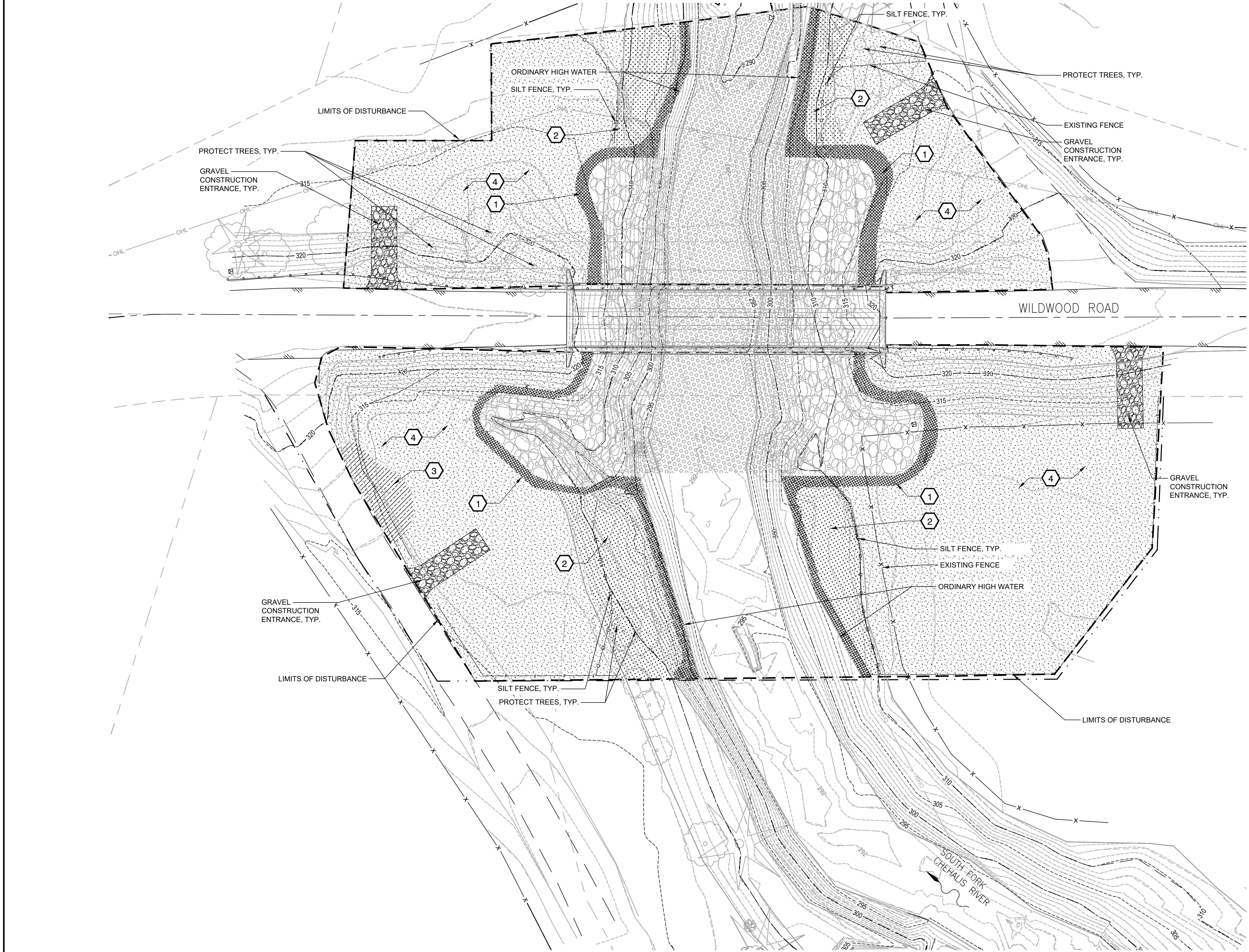
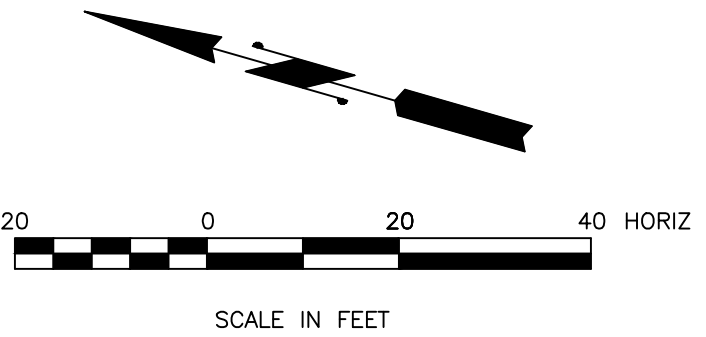
- 1) SEE PLANT SCHEDULE, DETAILS AND NOTES SHEET 14.
- 2) ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED IN ACCORDANCE WITH PROJECT PLANS AND CONSTRUCTION SPECIFICATIONS.
- 3) STAKE THE LIMITS OF PLANTING AREAS FOR APPROVAL BY THE ENGINEER PRIOR TO PLANTING INSTALLATION.
- 4) SEE STREAM SHEETS, REVETMENT PLANS, AND DETAILS.

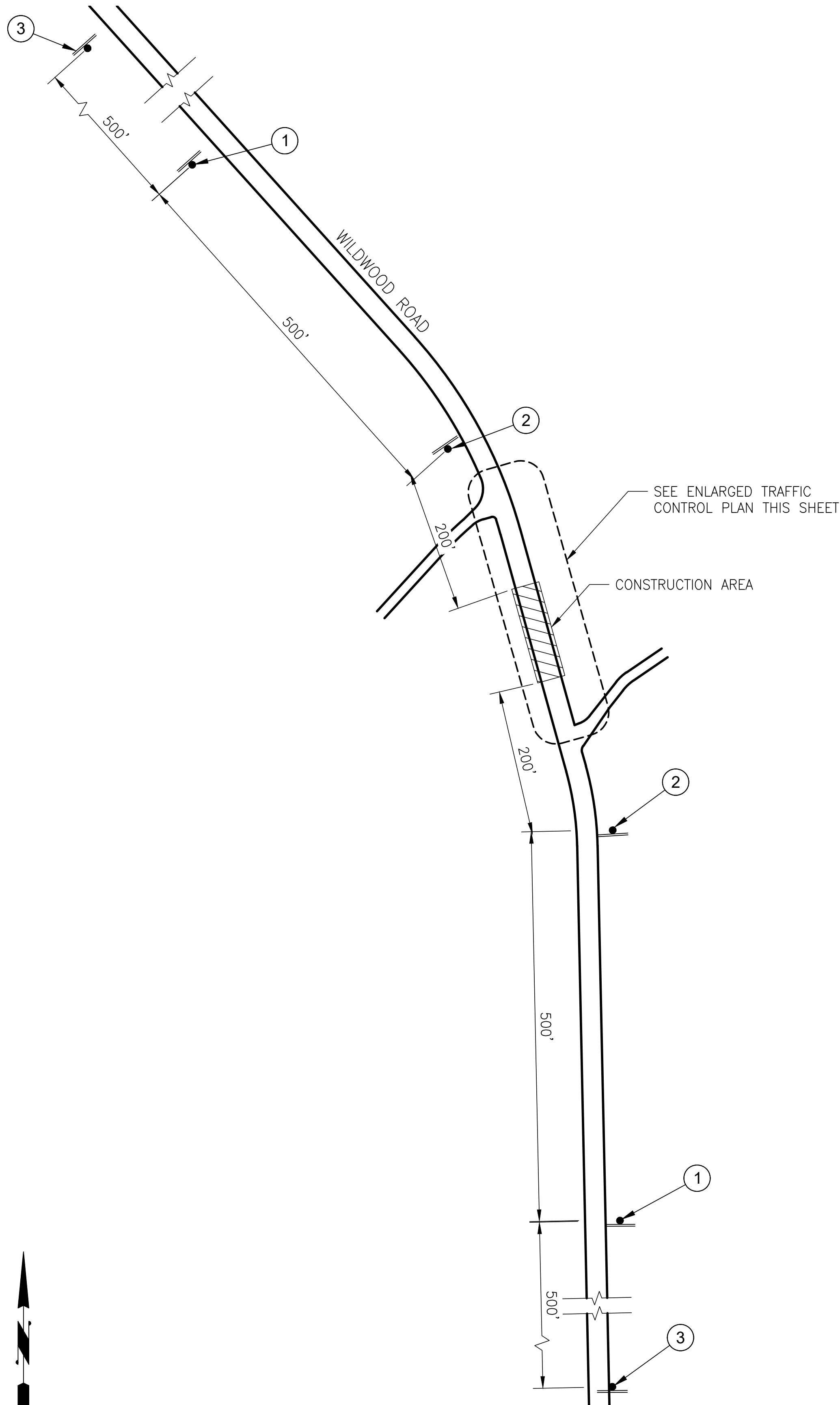
PLANTING LEGEND:

-  PLANTING ZONE 1 - LIVE STAKES
-  PLANTING ZONE 2 - RIPARIAN SEED MIX AND PLANTING
-  PLANTING ZONE 3 - UPLAND SEED MIX AND PLANTING
-  PLANTING ZONE 4 - UPLAND SEED MIX

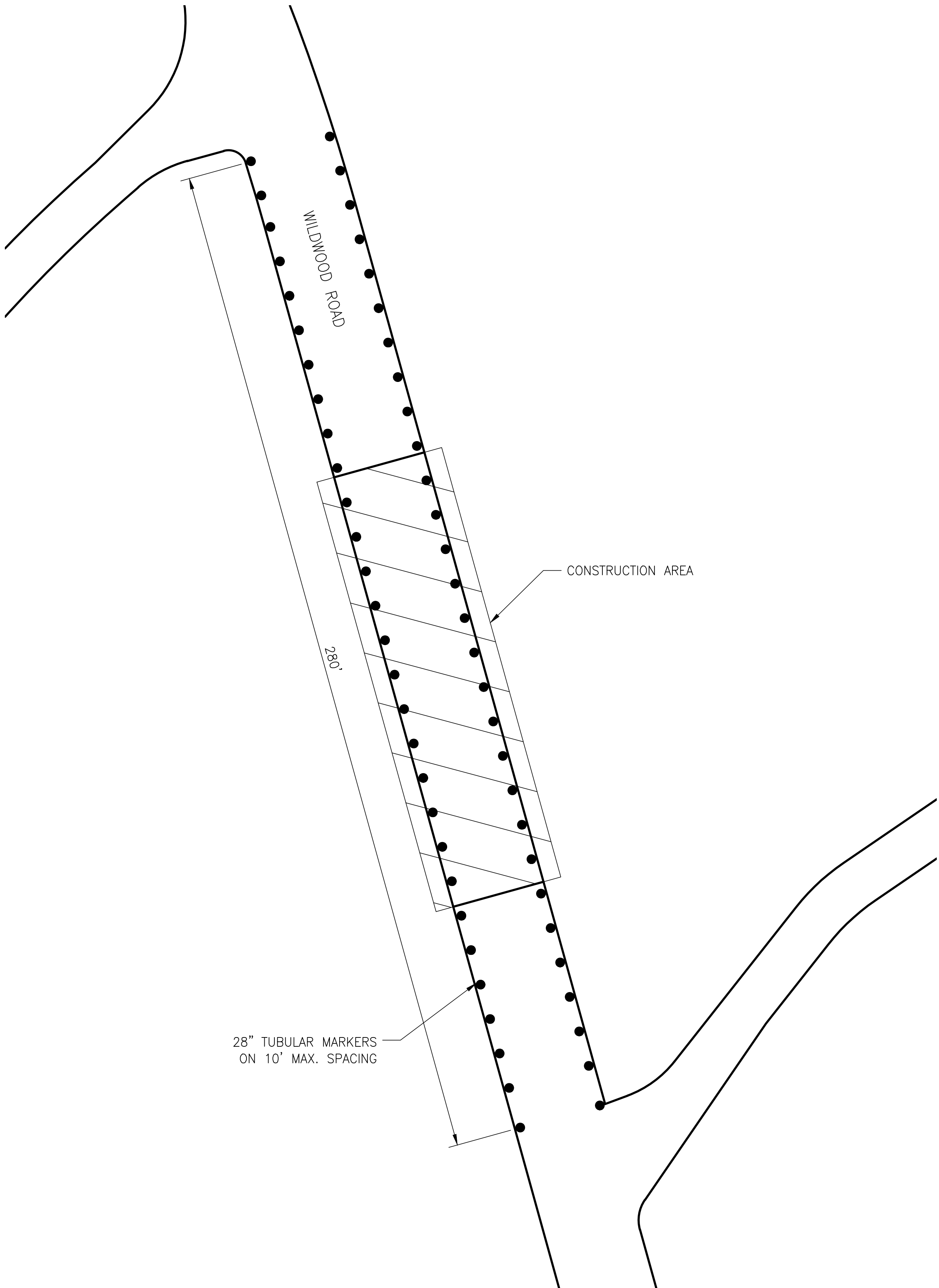
STREAM LEGEND:

-  EXPOSED RIP RAP
-  STREAMBED COBBLES 10 IN.
-  LARGE WOOD DEBRIS





TRAFFIC CONTROL PLAN
1" = 100'



ENLARGED TRAFFIC CONTROL PLAN
1" = 20'

1

SPEED ZONE AHEAD

R2-5C
24"x30"
B/W

2

25 MPH

W13-1
18"x18"
B/Y

3

SPEED LIMIT 25

R2-1
24"x30"
B/W

3

ROAD WORK AHEAD

W20-1
36"x36"

57 W. MAIN ST.
CHEHALIS WA 98532
PHONE # (360) 740-1123
FAX # (360) 740-2719

DESIGNED BY :	NO.	DATE	REVISION	BY	APP.
DRAWN BY :					
CHECKED BY :					
DATE :					

WILDWOOD MP 10.14 BRIDGE
SCOUR REPAIR

90% CONSTRUCTION PLANS
COUNTY ROAD PROJECT NO: 2159S

TRAFFIC CONTROL PLAN

SHEET
15
OF
15

CALL 48 HOURS
BEFORE YOU DIG
1-800-
424-5555
"It's the Law"
Utilities
Underground
Location Center

