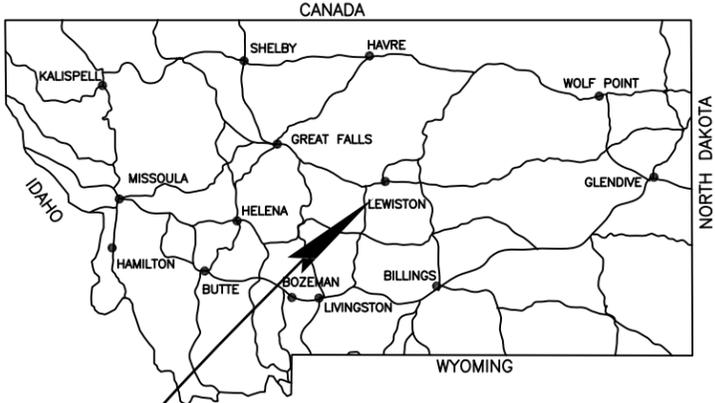
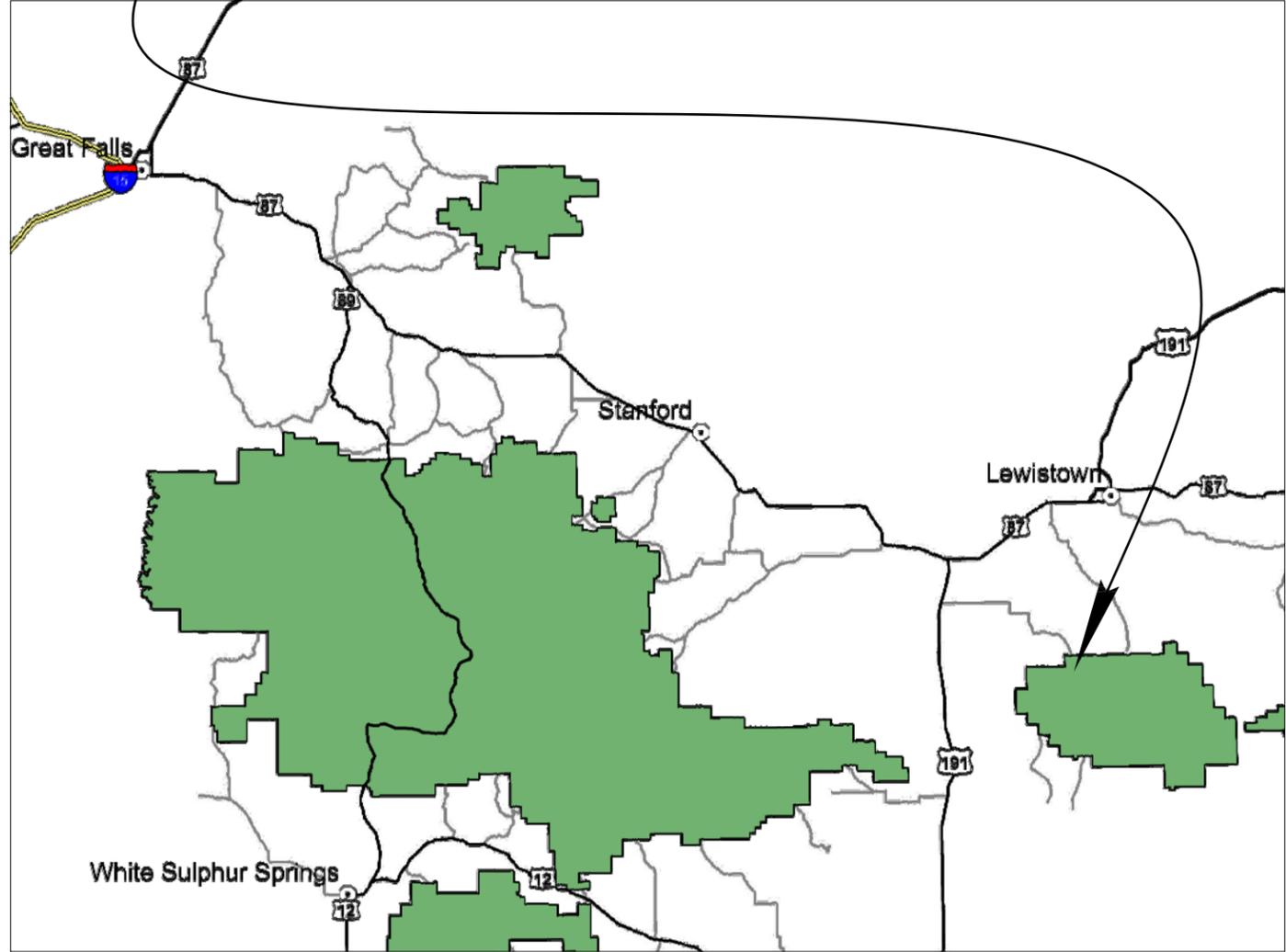


U.S. DEPARTMENT OF AGRICULTURE - FOREST SERVICE - REGION ONE
 LEWIS & CLARK NATIONAL FOREST JUDITH RANGER DISTRICT

CONSTRUCTION PLANS FOR
CRYSTAL LAKE BRIDGE STABILIZATION



LOCATION MAP
 NOT TO SCALE



VICINITY MAP
 NOT TO SCALE

INDEX

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SUBMITTED _____ DATE _____
 CIVIL ENGINEER I certify that this project has been designed with sound engineering practices and submit it for review and approval.

REVIEWED _____ DATE _____
 DISTRICT RANGER I have reviewed this project and certify that it meets the land and resource management requirements.

RECOMMENDED _____ DATE _____
 FOREST ENGINEER I certify the technical adequacy of this design and recommend approval for construction.

APPROVED _____ DATE _____
 FOREST SUPERVISOR This project is necessary to the forest program needs and goals and is hereby approved for construction.

SPECIFICATION NOTES

- 105: A COMMERCIAL SOURCE SHALL BE USED FOR RIPRAP MATERIAL.
- 107: THE CONTRACTOR SHALL NOT DAMAGE THE ASPHALT ROAD SURFACE IN ANY WAY. DO NOT OPERATE STEEL TRACKED EQUIPMENT ON THE ASPHALT SURFACE. THE NECESSARY MONTANA STATE STREAM PERMITS SHALL BE OBTAINED BY THE GOVERNMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING THE REGULATIONS SET FORTH IN THE PERMIT.
- 151: ALL CONSTRUCTION EQUIPMENT SHALL BE WASHED AND INSPECTED PRIOR TO ENTERING THE PROJECT AREA. EQUIPMENT IS EXPECTED TO PROCEED DIRECTLY TO THE JOB SITE FOLLOWING THE INSPECTION AND TO NOT LEAVE THE DESIGNATED WEED MANAGEMENT DISTRICT WHEREIN THE JOB SITE EXISTS. EQUIPMENT LEAVING THE DESIGNATED WEED MANAGEMENT DISTRICT WILL NEED TO BE RECERTIFIED AS WEED FREE BEFORE BEING ALLOWED TO RETURN TO THE JOB SITE.
- 251: RIPRAP SHALL NOT BE PLACED UNTIL CO APPROVES THE PLACEMENT DEPTH OF THE TOE OF THE RIPRAP.
- 705: FURNISH SPALLS AND ROCK FRAGMENTS GRADED TO PROVIDE A DENSE STABLE MASS.

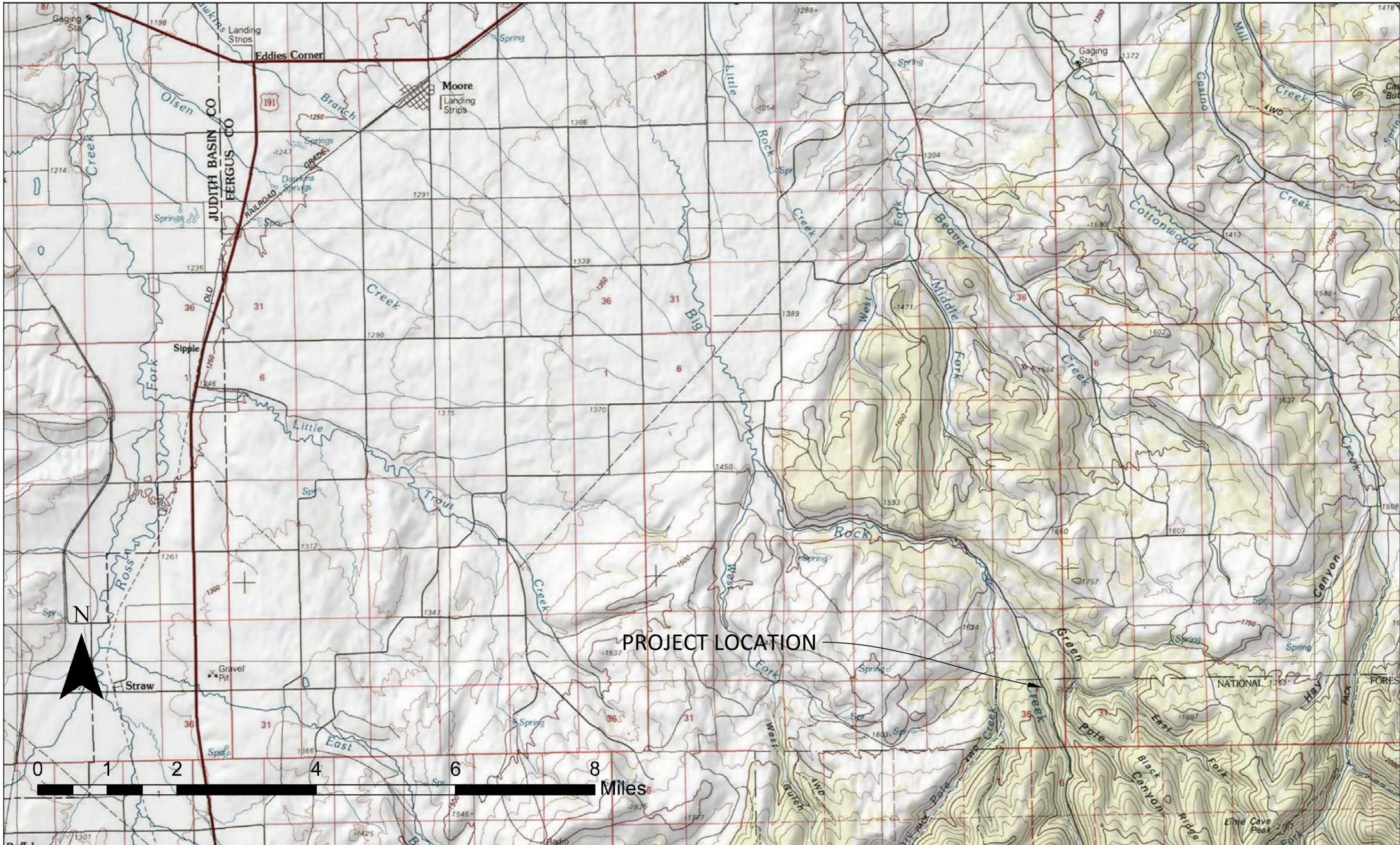
GENERAL NOTES

- 1. MATERIALS AND CONSTRUCTION FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH 2003 STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAYS (FP-03).
- 2. THE CONTRACTOR WILL PROVIDE THE CONSTRUCTION STAKING FOR THIS PROJECT.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR MINIMIZING SEDIMENT AND DEBRIS CAUSE BY CONSTRUCTION ACTIVITY FROM ENTERING THE STREAMBED. NO WHEELED OR TRACKED EQUIPMENT SHALL BE USED IN STREAMBEDS WITHOUT PRIOR APPROVAL OF CO.
- 4. ESTIMATE OF QUANTITIES ARE FOR CONTRACTOR CONVENIENCE ONLY, CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL QUANTITIES, VOLUMES AND LENGTHS.
- 5. **THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ANY BURIED UTILITIES PRIOR TO BEGINNING WORK.**

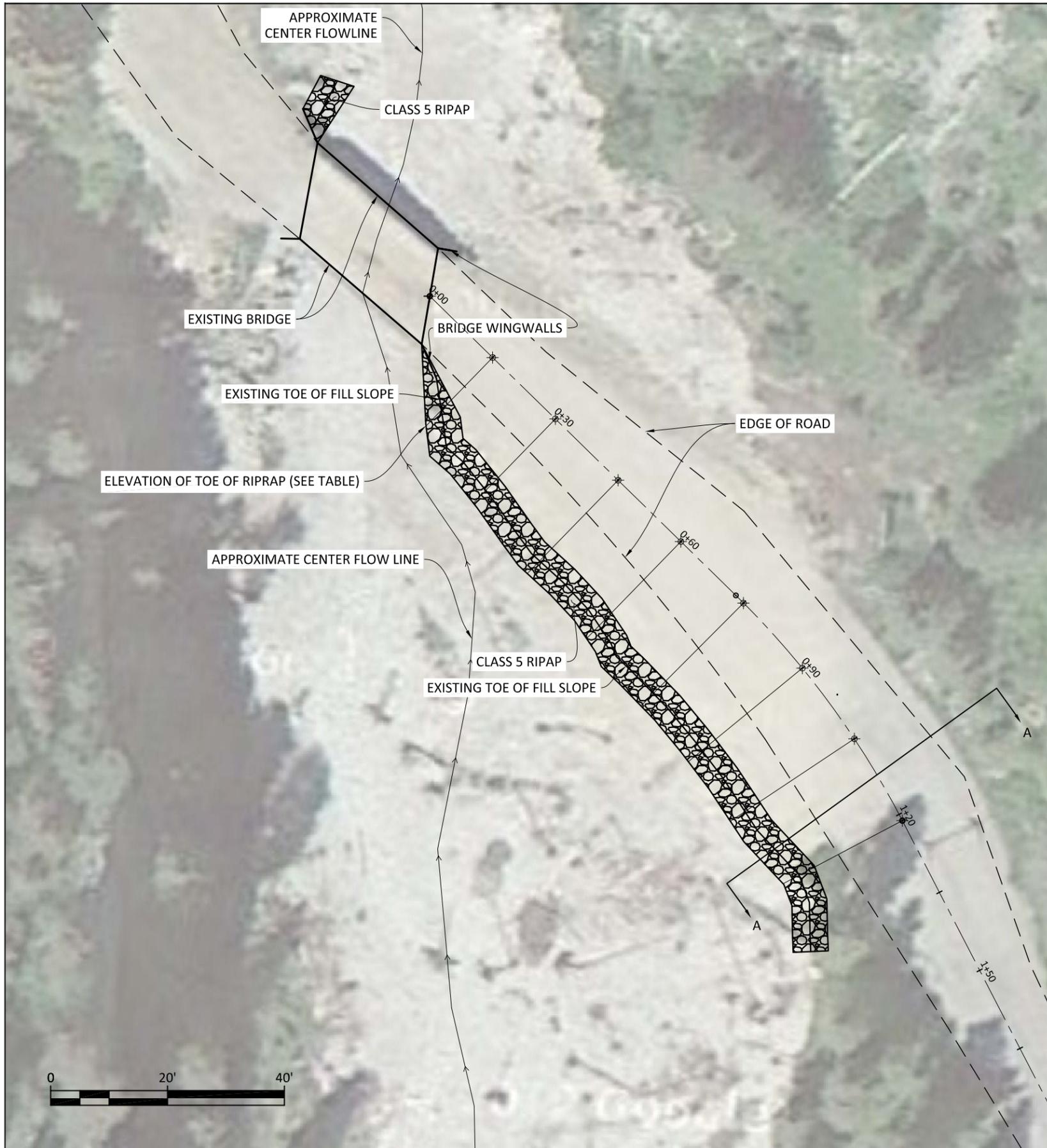
ESTIMATE OF QUANTITIES

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>METHOD OF MEASURE</u>	<u>PAY UNIT</u>	<u>MEASURE</u>
15101	Mobilization	LSQ	Lump Sum	1
25101	Placed riprap, class 3	CQ	Cubic Yard	115

NOTE - ESTIMATE OF QUANTITIES ARE FOR CONTRACTOR CONVENIENCE ONLY, CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL QUANTITIES, VOLUMES AND LENGTHS.

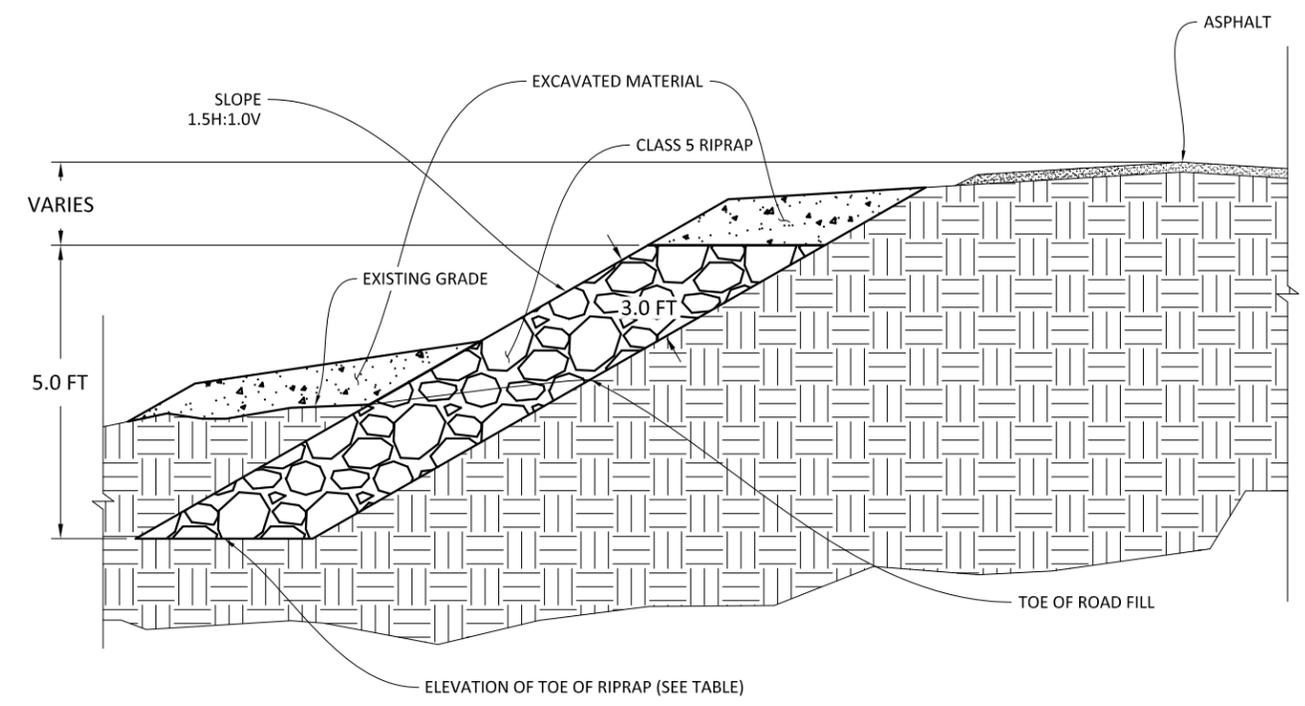


DATE	REVISION	BY



SECTION AA

NO SCALE



NOTES:

1. PLACE EXCAVATED MATERIAL ABOVE RIPRAP, NOT TO EXCEED THE ELEVATION OF THE SHOULDER OF THE ROADWAY, AND, WHEN NECESSARY, AT THE TOE OF THE RIPRAP.
2. ASPHALT SHALL BE PROTECTED FROM DAMAGE

ELEVATION OF TOE OF RIPRAP TABLE

STATION (FT)	ROAD CL ELEVATION (FT)	ELEVATION OF TOE (FT)
15	1001.63	991.63
30	1001.71	991.87
45	1001.79	992.11
60	1001.88	992.35
75	1001.96	992.59
90	1001.99	992.83
105	1002.28	993.07
120	1002.47	993.31

LEGEND

-  CLASS 5 RIPRAP
-  ROAD CENTERLINE
-  ROAD EDGE

