

NOTES

SPECIFICATIONS: Montana State Highway Commission Standard Specifications for Road and Bridge Construction, revised April, 1935; Design Specifications for Highway Structures, revised July, 1935; and Special Provisions shall govern unless otherwise noted.

DETAILS: Structure shown on this sheet shall be built in accordance with details shown on Dwg. No. R 24-TT19, and No. R 24-TT Details.

FINISHED GRADE: Finished plan grade of bridge is 0.5 ft. above profile grade shown on road plans.

GRAVEL BALLAST: Gravel ballast shall be placed by bridge contractor; it shall meet requirements for top course gravel surfacing except that crushing will not be required.

PILE PENETRATION: In case 8 ft. of pile penetration cannot be obtained by ordinary driving, the contractor shall do the necessary shoring to obtain the required penetration, or he shall excavate and set the piles 6 ft. deep and strike the piles with the pile hammer to bring them to a firm bearing. No additional compensation shall be allowed for such work.

EXCAVATION: Payment for all excavation necessary to the driving and cutting off of piles and to the placing of caps, stringers and backing plank shall be included in the unit price bid for treated lumber.

BOX CULVERT: Box culvert at Sta. 1470+25 and Sta. 1692+70 shall be constructed in accordance with details shown on Dwg. No. TT Box Culv. except as modified hereon.

Sheet piling cutoff wall shall be used at each end of box culverts as shown on Dwg. No. TT Box Culv.

The sheet piling shall be driven 4 ft. into undisturbed material. With the engineer's written approval this requirement may be waived provided the contractor will dig narrow trenches to exact elevation and set sheet piling therein.

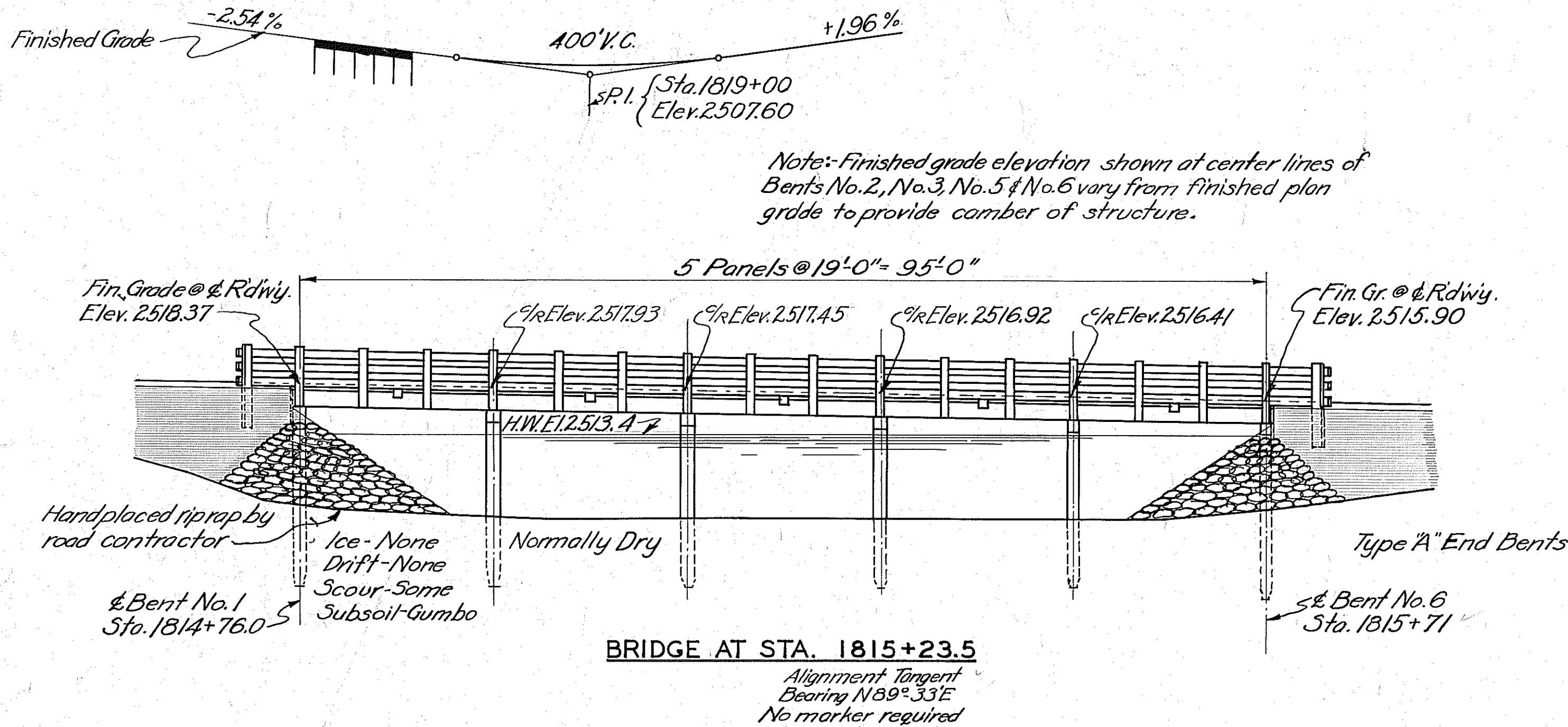
BRIDGE QUANTITIES							
STATION	LENGTH IN FEET	TREATED LUMBER M.F.B.M.	UNTREATED LUMBER M.F.B.M.	TREATED TIMBER PILES 25'	GRAVEL BALLAST CU. YDS.	STRUCTURE EXCAVATION CU. YDS.	REMARKS
MAJOR STRUCTURES							
1815+04.5	57	19.23	1.51	20	16		
TOTAL MAJOR STRUCTURES	57	19.23	1.51	20	16		
BOX CULVERTS							
1470+25	5X6X132	30.26				187	FILL 20 TO 30 SQ.
1692+70	4X5X 52	7.79				54	FILL 0 TO 15 SQ.
TOTAL BOX CULVERTS		38.05				241	
TOTAL ALL STRUCTURES	* 57	57.28	1.51	20	16	241	

* Length of Box Culverts not included.

REFERENCES	
DWG. NO.	DESCRIPTION
R 24-TT19	Standard Timber Trestle
TT Box Culv.	Standard Timber Culvert.
R 24-TT Details	Standard Trestle Details.

STATE OF MONTANA
STATE HIGHWAY COMMISSION
BRIDGE AT STA. 1815+04.5
BOX CULV. AT STAS. 1470 + 25.0
1692 + 70.0
FED. AID PROJ. NO. 247 E
GARFIELD COUNTY
GENERAL LAYOUT
Scale: 1" = 10' 0"

APPROVED BY: *B. J. Osburn*
BRIDGE DESIGNING ENGINEER
FILE NO. 797 DRAWING NO. 1949



* THIS CONTRACT: NH 0002 (393)
EXISTING TIMBER RAIL REPLACED
WITH T 101 RAIL SEE DWG. NO.
NEW SWAY BRACING ADDED. SEE
DWG. NO. 18753 FOR DETAILS.

BRIDGE QUANTITIES							
STATION	LENGTH IN FEET	TREATED LUMBER M.F.B.M.	UNTREATED LUMBER M.F.B.M.	TREATED TIMBER PILES 25'	GRAVEL BALLAST CU. YDS.	STRUCTURE EXCAVATION CU. YDS.	REMARKS
MAJOR STRUCTURES							
1815+23.5	95	31.03	2.22	30	26		
TOTAL MAJOR STRUCTURES	95	31.03	2.22	30	26		
BOX CULVERTS							
1470+25	5X6X132	30.26				187	FILL 20 TO 30 SQ
1692+70	4X5X 52	7.79				54	FILL 0 TO 15 SQ
TOTAL BOX CULVERTS		38.05				241	
TOTAL ALL STRUCTURES	* 95	69.08	2.22	30	26	241	

* Length of Box Culverts not included.

NOTES:- For notes see Drawing No. 1949

REFERENCES	
DWG. NO.	DESCRIPTION
1949	Box Culverts on 247E
R247119	Standard Timber Trestle
R2471Det.	Standard Trestle Details

STATE OF MONTANA
STATE HIGHWAY COMMISSION
BRIDGE AT STA. 1815+23.5

FED. AID PROJ. NO. 247 E
GARFIELD COUNTY
GENERAL LAYOUT
Scale: 1"=10'-0"

APPROVED BY: *B. J. Omburn*
BRIDGE DESIGNING ENGINEER
FILE NO. 797 DRAWING NO. 1949A

* REVISION 1/11/5 1619-03