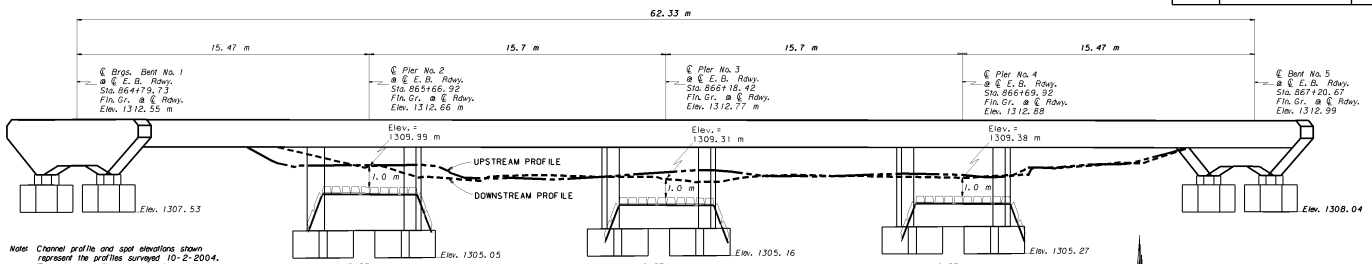


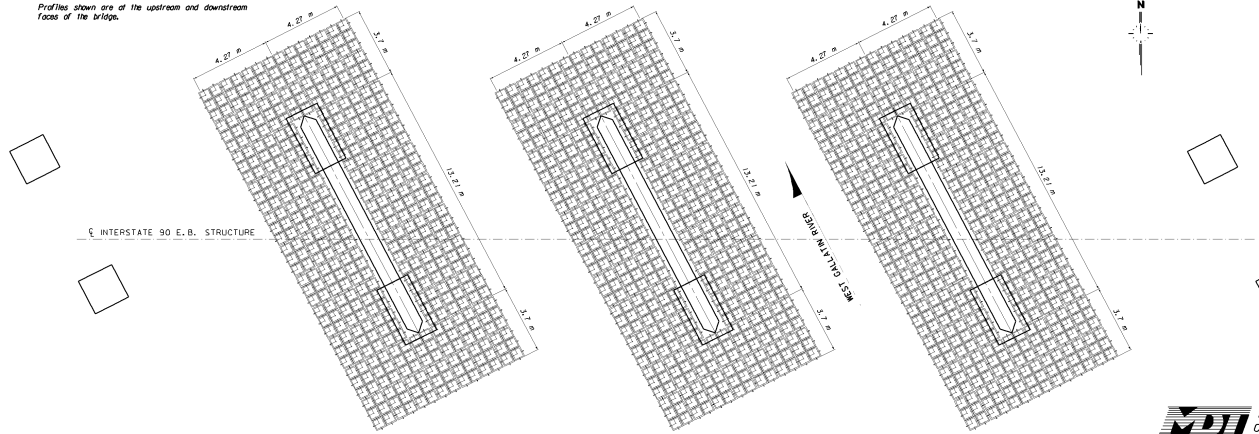


STATE	PROJECT NUMBER	SHEET NO.
MONTANA	IM-BH 000218071	02



Note: Channel profile and spot elevations shown represent the profiles surveyed 10-2-2004. The current profiles and elevations may vary. Contractor shall verify channel profiles and elevations prior to construction. Profiles shown are of the upstream and downstream faces of the bridge.

ELEVATION VIEW
SCALE - 1:100



PLAN VIEW
SCALE - 1:100

* I-90 E.B. OVER NEST GALLATIN RIVER QUANTITY SUMMARY				
	Cabled-Concrete Block Mattress (m ²)	Geotextile (m ²)	Structure Excavation Material (m ³)	Rock Fill (m ³)
Pier 2	163.4	163.4	176.0	1.0
Pier 3	163.4	163.4	176.0	1.0
Pier 4	163.4	163.4	176.0	1.0

* QUANTITIES ARE FOR ESTIMATING PURPOSES ONLY.

MDT MONTANA DEPARTMENT OF TRANSPORTATION
BRIDGE OVER GALLATIN RIVER
NEAR MANHATTAN

FEDERAL AID PROJECT NO. IM-BH 0002 (807)
GALLATIN COUNTY

CABLED - CONCRETE BLOCK
MATTRESS LAYOUT - I-90 E.B.

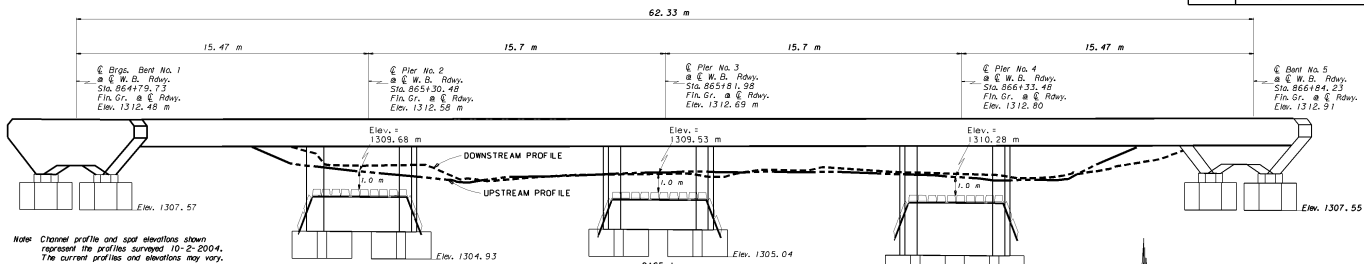
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DESIGNED	6-18-03	R.J.B.
DRAWN	6-18-03	J.E.B.
CHECKED	12-28-03	R.J.B.
REVIEWED		
REVIEWED		

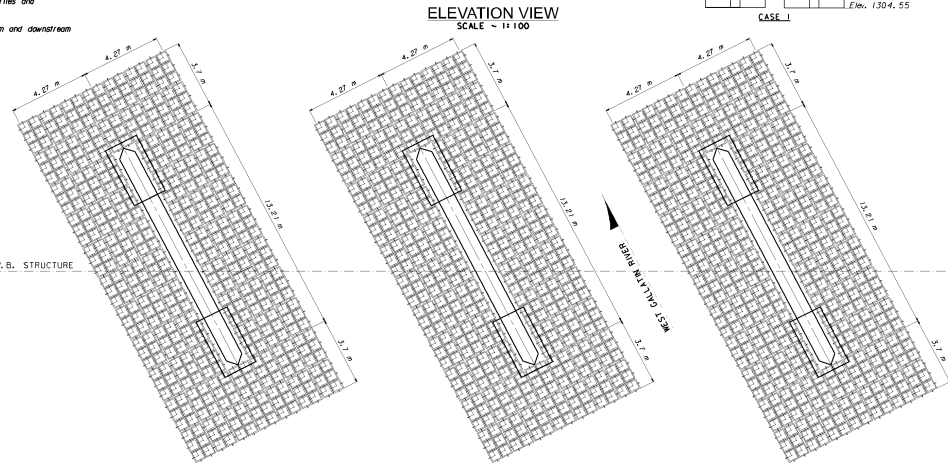
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STATE	PROJECT NUMBER	SHEET NO.
MONTANA	IM-BH 000218071	83



Note: Channel profile and spot elevations shown represent the profiles surveyed 10-2-2004. The current profiles and elevations may vary. Contractor shall verify channel profiles and elevations prior to construction. Profiles shown are at the upstream and downstream faces of the bridge.



* I-90 W.B. OVER WEST GALLATIN RIVER QUANTITY SUMMARY				
	Cabled-Concrete Block Mattress (m ²)	Geotextile (m ²)	Structure Excavation Material (m ³)	Rock Fill (m ³)
Pier 2	163.4	163.4	176.0	1.0
Pier 3	163.4	163.4	176.0	1.0
Pier 4	163.4	163.4	176.0	1.0

* QUANTITIES ARE FOR ESTIMATING PURPOSES ONLY.

MDT MONTANA DEPARTMENT OF TRANSPORTATION
BRIDGE OVER GALLATIN RIVER NEAR MANHATTAN

FEDERAL AID PROJECT NO. IM-BH 0002 (807)

GALLATIN COUNTY
CABLED - CONCRETE BLOCK MATTRESS LAYOUT - I-90 W.B.
Scale = 1:100

DESIGNED	8-18-03	R. J. B.
DRAWN	8-18-03	J. L. B.
CHECKED	12-29-03	R. J. B.
REVISED		
REVISED		

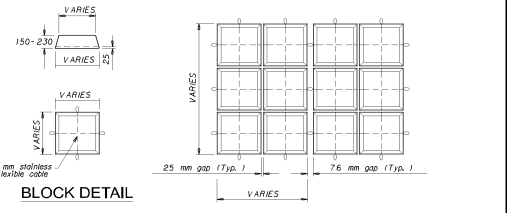
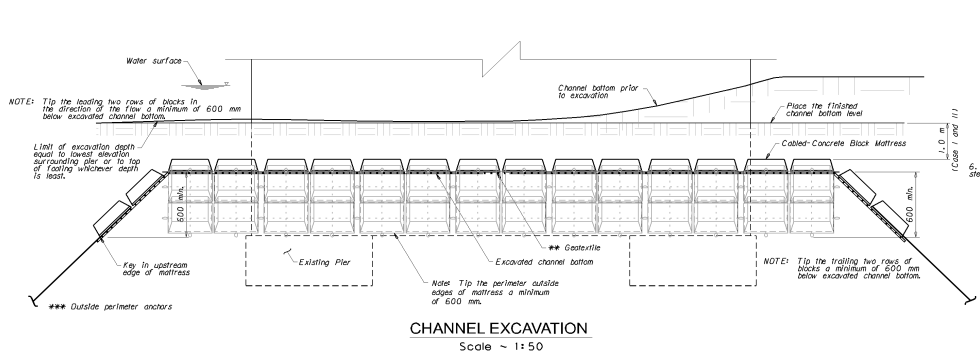
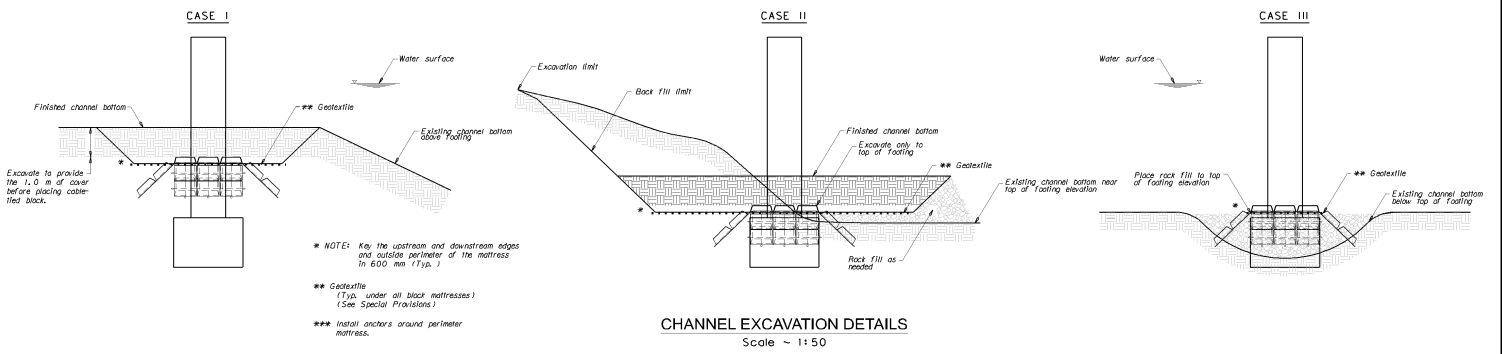
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SEE BRIDGE MANUAL

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2/24/2006
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STATE	PROJECT NUMBER	SHEET NO.
MONTANA	IM-BH 0002 (807)	85



CABLED - CONCRETE BLOCK MATTRESS LAYOUT
Scale ~ 1:20

MDT MONTANA DEPARTMENT OF TRANSPORTATION
BRIDGE OVER GALLATIN RIVER
NEAR MANHATTAN
FEDERAL AID PROJECT NO. IM-BH 0002(807)
GALLATIN COUNTY

CHANNEL EXCAVATION DETAILS
Scale ~ As noted
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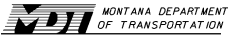
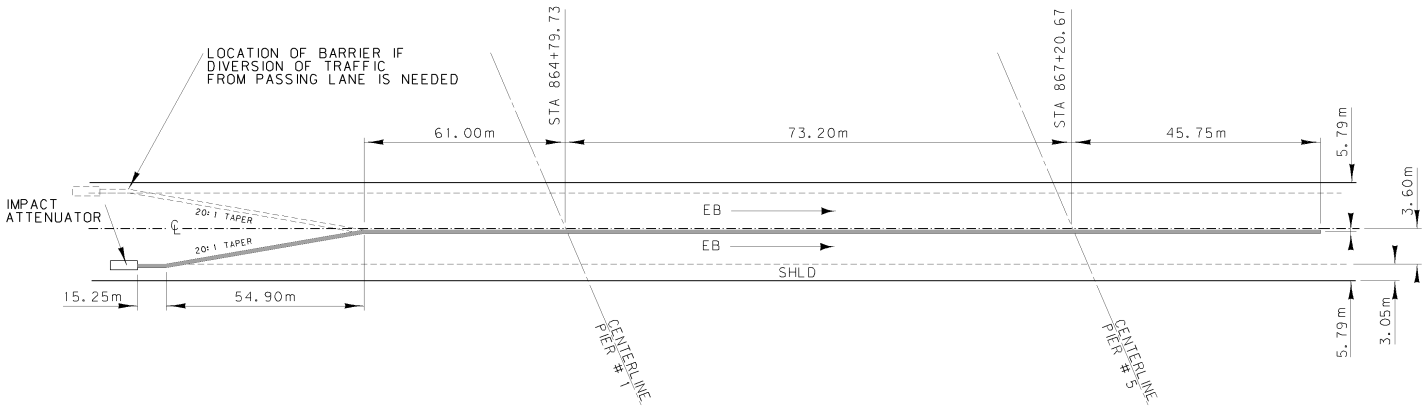
DESIGNED	6-18-05	B.J.B.
DRAWN	6-18-05	J.L.B.
CHECKED	7-08-05	B.J.B.
REVISED		
REVISED		

5466001BDET002.dgn
2/24/2006
8:24:20 AM CYS - 00208



STATE	PROJECT NUMBER	SHEET NO.
MONTANA	IM-BH 0002 (807)	86

DETAIL
NOT TO SCALE



BRIDGE OVER GALLATIN RIVER
NEAR MANHATTAN
FEDERAL AID PROJECT NO. IM-BH 0002(807)
GALLATIN COUNTY

CONCRETE SAFETY BARRIER- E.B.

Scale ~ As noted

DESIGNED	5-21-08	B.A.P.
DRAWN	5-21-08	B.A.P.
CHECKED	5-22-08	B.A.P.
REVIEWED		
REVIEWED		

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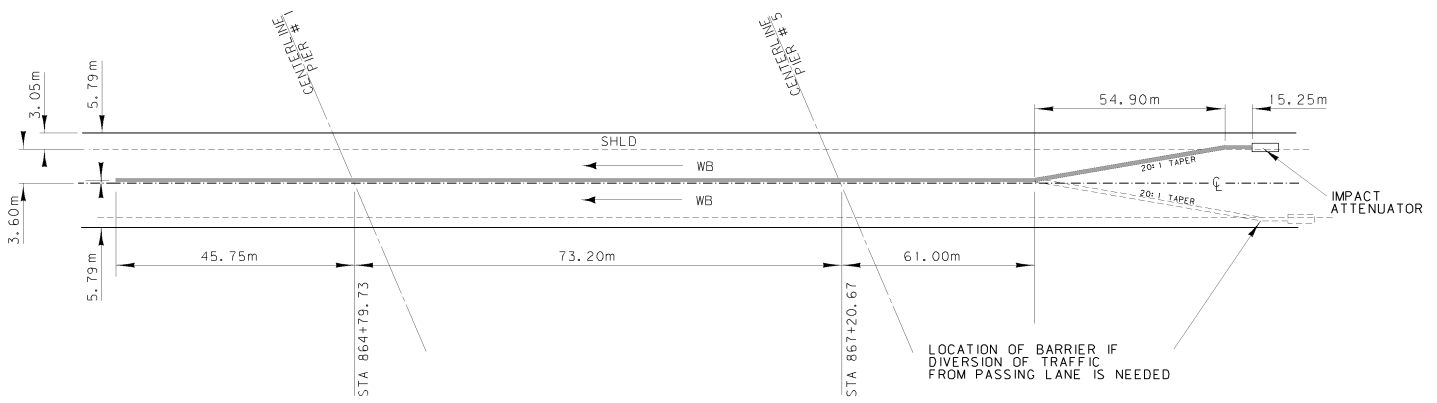
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8:24:34 AM CYS - 000008



STATE	PROJECT NUMBER	SHEET NO.
MONTANA	IM-BH 0002 (807)	87

DETAIL

NOT TO SCALE



BRIDGE OVER GALLATIN RIVER
NEAR MANHATTAN
FEDERAL AID PROJECT NO. IM-BH 0002(807)
GALLATIN COUNTY

CONCRETE SAFETY BARRIER - W.B.

Scale ~ As noted

DESIGNED	2-21-06	R.A.E.
DRAWN	2-21-06	R.A.E.
CHECKED	2-22-06	R.A.E.
REVIEWED		
REVIEWED		

FILENAME: 5466001BDET004, DRAWING NO. 19702

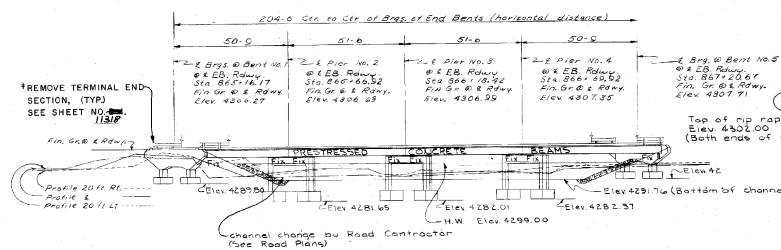
Note: No Bridge Markers or Reflector Signals will be required for this structure.

Note: Finished plan grade of Bridge @ E Roadway is the same as profile grade shown on Road Plans.

Note: Elevations shown for bottom of footings are approximate only. Final elevations to be determined by the Engineer.

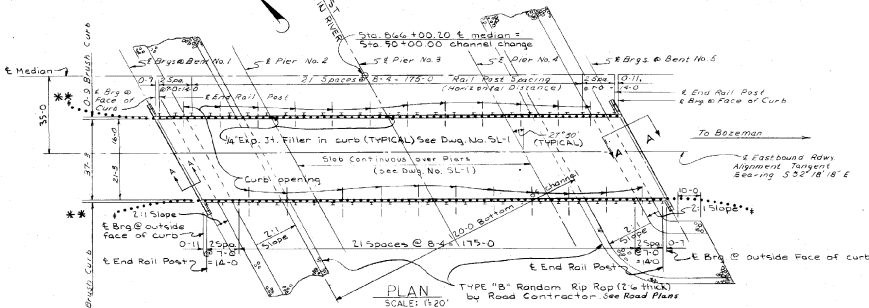
FOR REFERENCE ONLY

FED. HIGH. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.
8	MONT.	W-BH 0002(807)	89



STREAM DATA
 Elevation
 Discharge
 Section
 Substrate
 For details see Dwg. No. 887
 Note: The existing dike bank on the west side of River shall not be disturbed without the written permission of the Bridge Engineer.

ELEVATION
 SCALE: 1"=20'

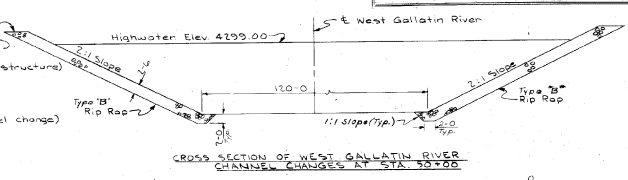


PLAN
 SCALE: 1"=20'

Note: See Cross Section of channel change - this sheet for details of rip rap key @ toe of slope.

Note: Structure excavation for Pier No. 2, No. 3 & No. 4 shall be computed up to the bottom of the channel change. Structure Excavation for Bent No. 5 shall be computed from the natural ground line existing before construction is started.

OTHER NOTES:
 ** THIS CONTRACT - IN 80-00-1189 F
 Revise existing rail to concrete barrier; place Thick Latex overlay and install bridge approach section. For details, see Dwg's No. 1710-80 thru No. 17181. Retrofit substructures for seismic load.



CROSS SECTION OF WEST GALLATIN RIVER CHANNEL CHANGE AT STA. 860+00

Profile finished Grade
 + 0.45%

PROFILE GRADE
 BOTTOM OF WEST GALLATIN RIVER CHANNEL CHANGE
 Scale: 1"=10'

THIS CONTRACT:
 1R 0002(82)U2
 For revisions, see summary of Bridge Rehabilitation Dwg. No. 15134.

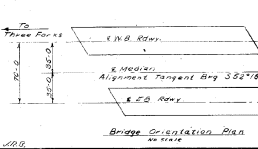
FOR REQUIRED STATIONS, SEE ROAD PLANS. GUARDRAIL TO BE INSTALLED THE FULL LENGTH OF THE BRIDGE, AND CONTINUOUS WITH THE BRIDGE APPROACH GUARDRAIL SECTION, LT. & RT. (SHEET NO. 11312)

THIS CONTRACT: IN 80-00-1189 F
 Revised guard rail and replaced the existing deck, joint at Bent No. 1, installed new bridge rail end abutment placed new bridge deck overlay and installed new bridge approach guardrail. See Dwg. No. 1710-80 thru 17181.

STATE OF MONTANA
 STATE HIGHWAY COMMISSION
 WEST GALLATIN RIVER BRIDGE
 AT STA. 866+00.20
 FEDERAL AID PROJECT NO. 130-90-614287
 GALLATIN COUNTY
 GENERAL LAYOUT
 EASTBOUND ROADWAY

NO.	DATE	BY	CHKD.	REVISED
1	11-11-88	W.B.	W.B.	W.B.
2	11-11-88	W.B.	W.B.	W.B.
3	11-11-88	W.B.	W.B.	W.B.
4	11-11-88	W.B.	W.B.	W.B.
5	11-11-88	W.B.	W.B.	W.B.

SCALE AS NOTED
 APPROVED BY: *[Signature]*
 DRAWING NO. 11312



SECTION A-A
 SCALE: 3/4"=1'-0"

Note: No Bridge Markers or Reflector Signs will be required for this structure.

Note: Finished plan grade of Bridge & E roadway same as profile grade shown on Road Plans.

Note: Elevations shown for bottom of footings are approximate only. Final elevations to be determined by the Engineer.

PROJECT NO. STATE PROJECT NO. SHEET NO.
8 MONT. 44-BH-0002(807) 810

FOR REFERENCE ONLY

NOTES

SPECIFICATIONS: Montana State Highway Commission, Standard Specifications for Road and Bridge Construction, 1962 Edition, and amendments thereto. Any Special Provisions shall govern unless otherwise noted. Design prepared in accordance with AASHTO Specifications, 1967 Edition, and any amendments thereto.

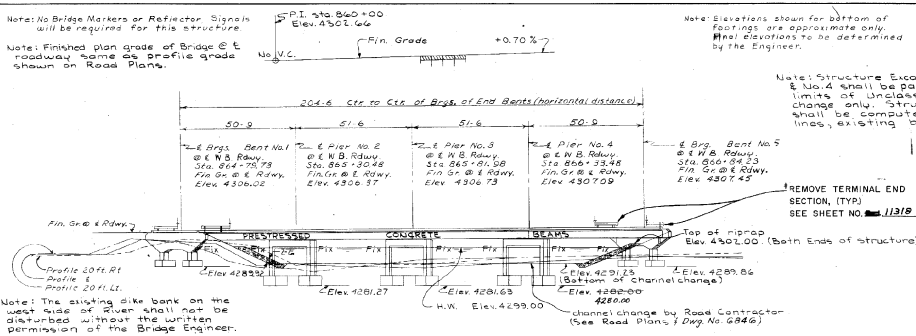
LIVE LOAD: Standard (H20-S16) or Alternate Loading. Alternate Loading for bridges and clear systems with spans under 40 feet consists of two axles four feet apart with each axle weighing 24,000 lbs.

OTHER NOTES: For other notes see Dwg. No. 686 & No. 687.

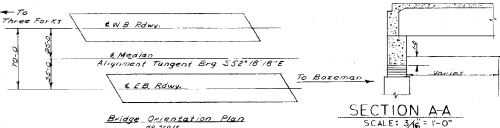
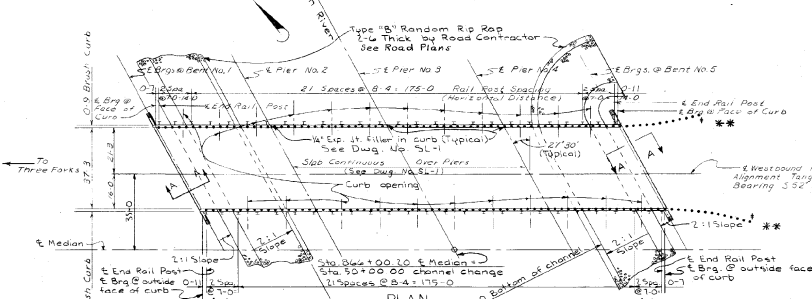
**** THIS CONTRACT: JM-90-47088 F**
Revise existing rail to concrete barrier, place thick latex overlay, and install bridge approach section. For details, see Dwg. No. 17136 thru No. 17141. Retrofit substructures for seismic load.

THIS CONTRACT: 18-0002(2)212

For revisions see Summary of Bridge Rehabilitation Dwg. No. 15156.



STREAM DATA
Ice: Moderate
Drift: Severe
Scour: Severe
Subsidence: Severe
See Dwg. No. 684



FOR REQUIRED STATIONS, SEE ROAD PLANS. QUADRIL TO BE INSTALLED THE FULL LENGTH OF THE BRIDGE, AND CONTINUOUS WITH THE BRIDGE APPROACH QUADRIL SECTION, LT. & RT. (SHEET NO. 1131P).

**** THIS CONTRACT: 18-0002(2)212**
Installed new concrete rail endpost, placed thin grade deck overlay and installed new bridge approach quadril. See Dwg. No. 17136 thru No. 17141.

STATE OF MONTANA
STATE HIGHWAY COMMISSION
WEST GALLATIN RIVER BRIDGE
AT STA. 866+00.20
FEDERAL AID PROJECT NO. HG-90-644287
GALLATIN COUNTY
GENERAL LAYOUT
WESTBOUND ROADWAY

SCALE: AS NOTED

APPROVED BY: *[Signature]*
DRAWN BY: 6845

REVISIONS
NO. BY DATE
1. DWG. 1-21-88
2. REVISED 4-11-90

REVISIONS
NO. BY DATE
1. DWG. 1-21-88
2. REVISED 4-11-90