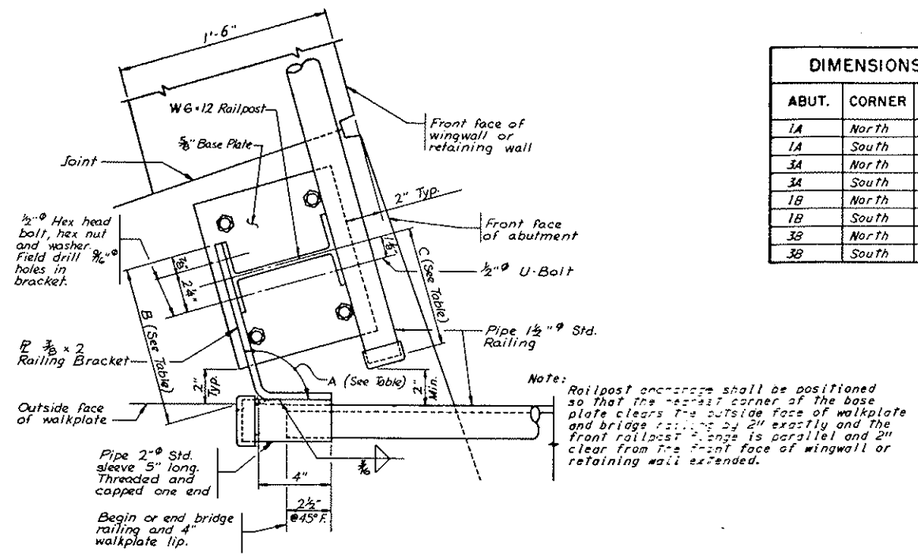
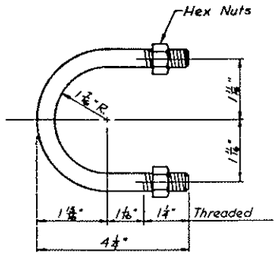
BRIDGE CODE	R.R. BRIDGE NO	FED ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	199	8	N D	MG-1-010 (05) 917		55	



Note: Railpost anchorage shall be positioned so that the nearest corner of the base plate clears the outside face of walkplate and bridge railing by 2" exactly and the front railpost flange is parallel and 2" clear from the front face of wingwall or retaining wall extended.

TYPICAL CORNER POST DETAIL FOR RAILING
Scale: 3"=1'-0"

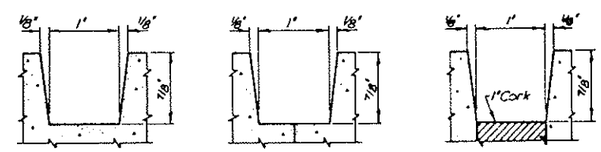
DIMENSIONS AT CORNER POST				
ABUT.	CORNER	ANGLE A	DIM. B	DIM. C
1A	North	55°31'21"	1'-2½"	3"
1A	South	128°27'53"	9½"	10"
3A	North	119°05'37"	9½"	8"
3A	South	90°00'00"	8½"	4"
1B	North	90°00'00"	8½"	4"
1B	South	115°34'22"	9½"	8"
3B	North	106°52'13"	9"	6"
3B	South	69°03'21"	1'-1"	3"



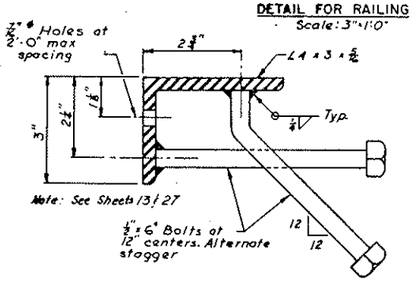
U-BOLT DETAIL FOR SLOPED RAILING
Scale: half scale

TOP OF BEAM ELEVATIONS AT BEARINGS								
BRIDGE A – SPAN 1			BRIDGE B – SPAN 1			BRIDGE B – SPAN 2		
Beam	Abut. 1A	Pier 2A	Beam	Abut. 1B	Pier 2B	Beam	Pier 2B	Abut. 3B
A 1	1650.368	1650.789	A 1	1652.450	1652.602	A 2	1652.606	1652.756
B 1	1650.354	1650.777	B 1	1652.447	1652.599	B 2	1652.603	1652.754
C 1	1650.340	1650.764	C 1	1652.444	1652.596	C 2	1652.600	1652.751
D 1	1650.326	1650.751	D 1	1652.441	1652.593	D 2	1652.597	1652.748
E 1	1650.312	1650.739	E 1	1652.438	1652.590	E 2	1652.594	1652.746
BRIDGE A – SPAN 2			F 1	1652.435	1652.588	F 2	1652.592	1652.743
Beam	Pier 2A	Abut. 3A	G 1	1652.432	1652.585	G 2	1652.589	1652.740
			H 1	1652.428	1652.582	H 2	1652.586	1652.738
A 2	1650.787	1651.192	J 1	1652.425	1652.579	J 2	1652.583	1652.736
B 2	1650.775	1651.181	K 1	1652.422	1652.577	K 2	1652.581	1652.733
C 2	1650.763	1651.170	L 1	1652.419	1652.574	L 2	1652.578	1652.730
D 2	1650.751	1651.159	M 1	1652.415	1652.571	M 2	1652.575	1652.728
E 2	1650.739	1651.148	N 1	1652.412	1652.568	N 2	1652.572	1652.725

Note:
The contractor shall provide shims as required to bring top of beams up to the elevations tabulated above. The cost of furnishing and placing shims shall be considered incidental and included in the price bid for Structural Carbon Steel.

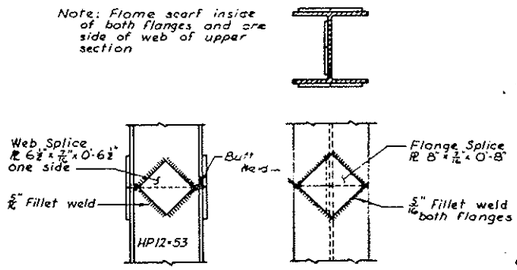


RUSTICATION DETAILS
No Scale

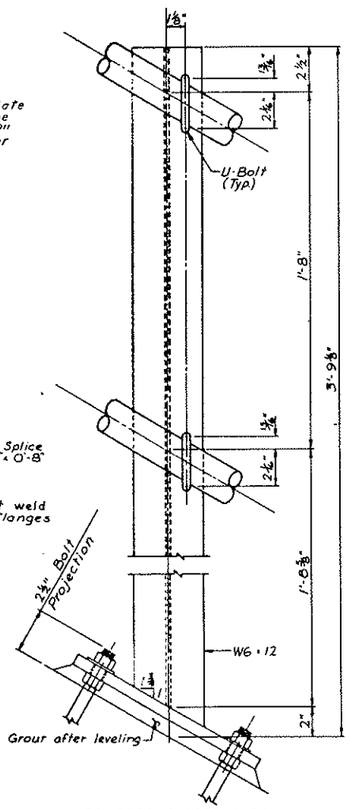


SUPPORT ANGLE DETAIL FOR EXPANSION JOINTS
Scale: half scale

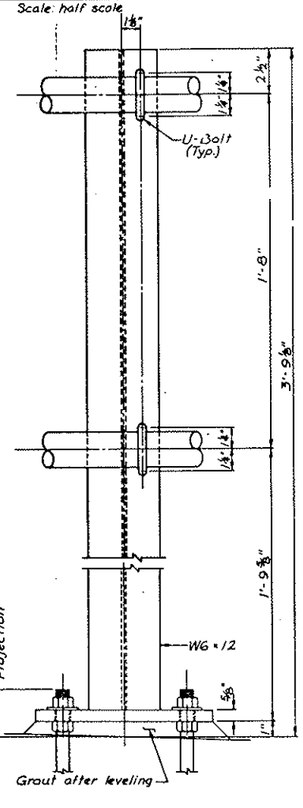
Note: Flame scarf inside of both flanges and one side of web of upper section



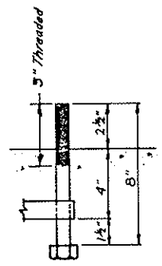
PILE SPLICE DETAIL
Scale: 1"=1'-0"



RAILPOST - SLOPED BASE
Scale: 3"=1'-0"



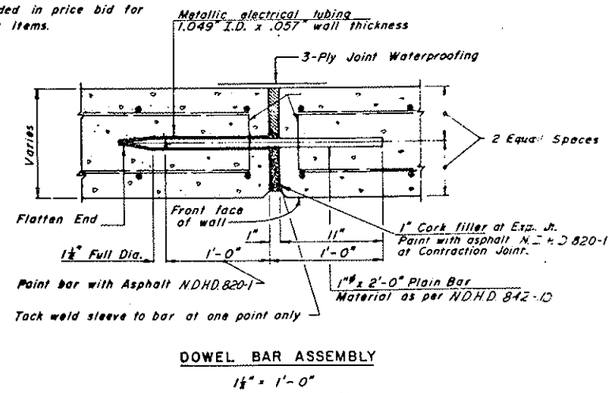
RAILPOST - HORIZONTAL BASE
Scale: 3"=1'-0"



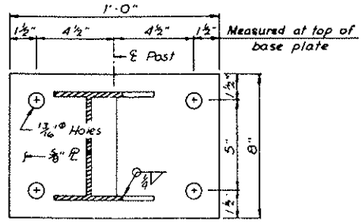
SECTION A-A
Scale: 3"=1'-0"

Note:
Railposts, railpost anchorage, pipe sleeves, U-bolts and pipe railing on retaining walls and wingwalls shall be included in weight and paid for as Structural Carbon Steel (A36). Galvanize after fabrication in accordance with ASTM A153. 3-Ply joint waterproofing on back face of wall joints shall be considered incidental and included in price bid for Class AE-1 Modified Concrete.

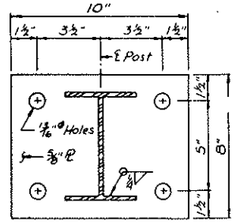
Note:
Dowel Bar Assemblies included in price bid for other items.



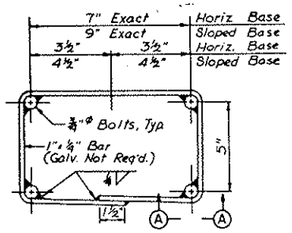
DOWEL BAR ASSEMBLY
1½" = 1'-0"



PLAN - SLOPED BASE
Scale: 3"=1'-0"



PLAN - HORIZONTAL BASE
Scale: 3"=1'-0"



PLAN OF ANCHORAGE
No Scale

QUANTITIES

MISCELLANEOUS DETAILS

BURLINGTON NORTHERN, INC. RAILWAY UNDERPASSES

U.S. HIGHWAY NO. 10
MORTON COUNTY

10-916.95-32