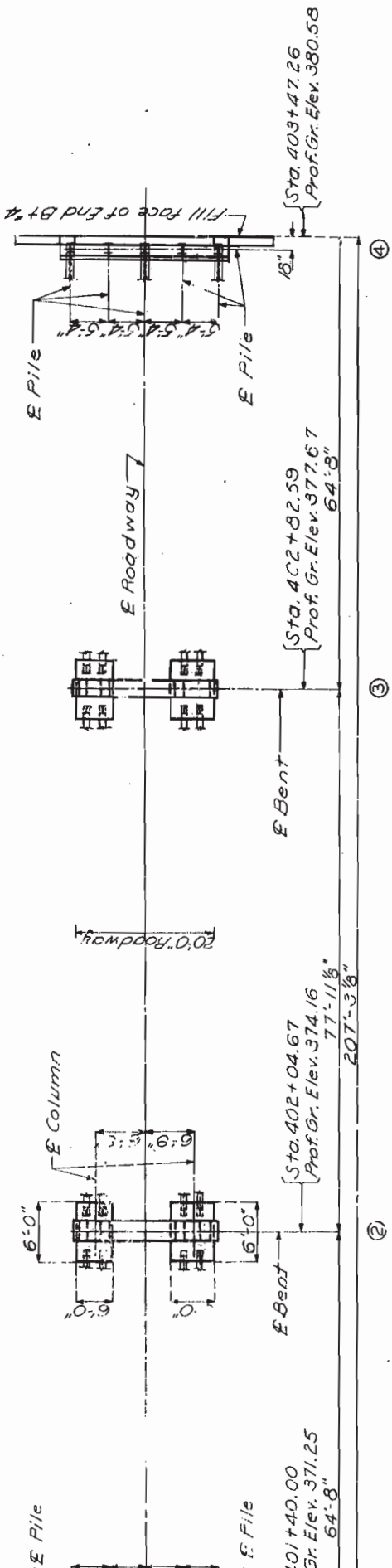


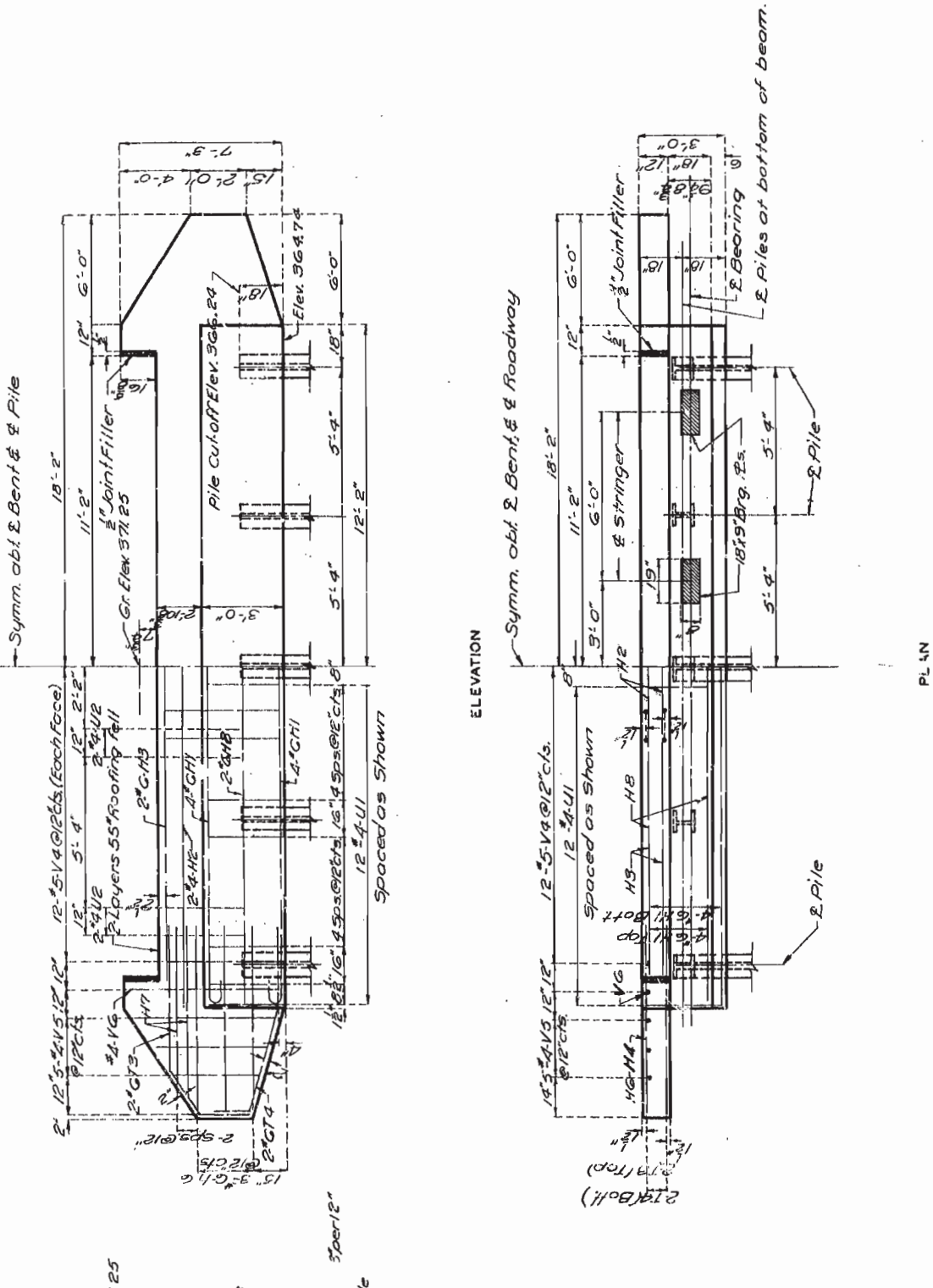


ESTIMATED QUANTITIES			
Item	Superstr	Substr	Total
Class 1 Excavation for Structures	Cu.Yds.	200	200
Class 2 Excavation for Structures	Cu.Yds.	96	96
Class "B" Concrete	Cu.Yds.	32.4	182.9
Fabricated Structural Steel	Lbs.	117210	117210
Reinforcing Steel	Lbs.	20160	2930
Gray Iron Alloy Castings	Lbs.	830	830
Steel Pile in-place	Lin.Ft.	1262	1262
Steel Pile cut-off	Lin.Ft.	78	78

*Note: Excavation for bridge made above Elev. 345.0 will be paid for as Class 1 Excavation for Structures.
Excavation for bridge made below Elev. 345.0 will be paid for as Class 2 Excavation for Structures.
Class Final pay weight for fabricated Structural Steel will be based on using field rivets except for bolted connections specified for handrail and bearings.*

SKETCH

No	Size	Length	Mark	Location	Bending Stk	Cutting Diag
318	#5	23'-9"	C1	Curb	10 1/2	2'-9"
12	#6	33'-9"	C2	"		
18	#6	27'-9"	C3	"		
12	#6	32'-9"	C4	"		
824	#4	22'-0"	S1	Slab		2'-9" 6'-3"
256	#4	27'-0"	S2	"		9'-0"
36	#4	16'-0"	S3	"		5-V5 CUT 5"
						18" 6'-3"
End Bent No 1						
8	#6	26'-0"	H1	Beam		6'-3" 7'-9"
2	#4	22'-0"	H2	Bk Wall		14'-0"
2	#6	22'-0"	H3	"		
6	#6	7'-9"	H6	Wing		2-H5-CUT 2"
2	#6	13'-0"	H7	"		
2	#6	24'-0"	H8	Beam		6"
4	#6	11'-6"	T3	Wing		
24	#4	9'-9"	T4	"		20'-2' G1
8	#4	9'-3"	U2	Beam		23'-5' H1
46	#5	4'-6"	V4	Bk Wall		G1-H1
5	#4	9'-0"	V5	Wing		
2	#4	6'-0"	V6	"		
8	#2	26'-0"	W1	A.B Wells		9 1/2 7'-0"
Int. Bents No 2 & 3						
32	#7	4'-9"	D1	Footing		
32	#6	7'-0"	D2	"		
16	#6	8'-0"	F1	Bm Hoh		
16	#6	8'-6"	F2	"		
24	#8	9'-6"	F3	Tie Brkch		
12	#8	22'-9"	G1	Beam		
4	#8	20'-9"	G2	"		
10	#10	20'-9"	G3	"		
12	#8	15'-6"	G4	Tie Beam		
118	#9	9'-9"	P1	Col. 2' Bk Wall		
42	#5	10'-0"	U3	Beam		
16	#4	3'-3"	U4	"		
16	#4	9'-0"	U5	Tie Beam		
16	#7	3'-0"	V7	Col. 5' Bk Wall		
16	#7	3'-6"	V8	Col. 5' Bk Wall		
16	#2	26'-0"	W1	A.B Wells		



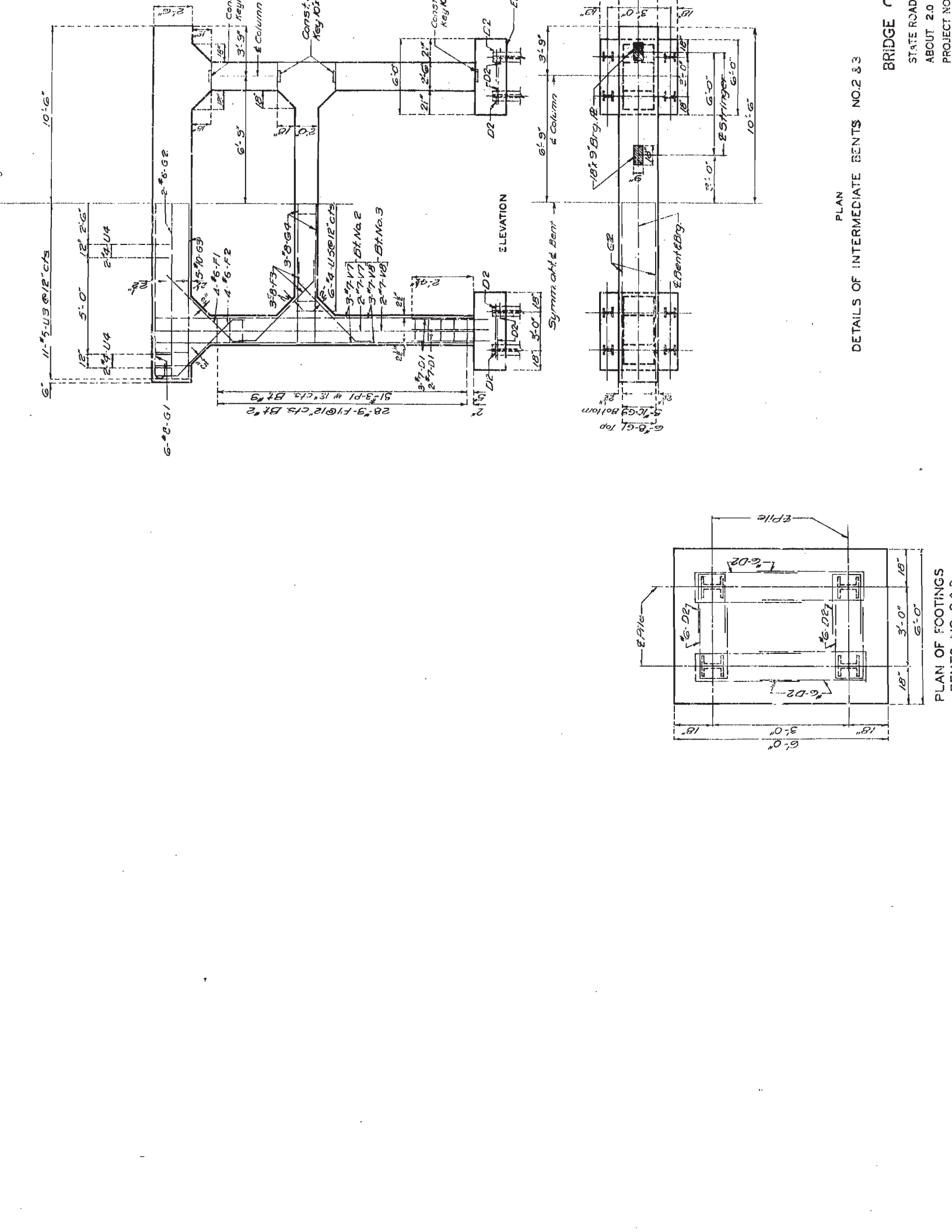
DETAILS OF END BENT NO. 1

10" BP @ 42"

Butt splice - 1' min (required)

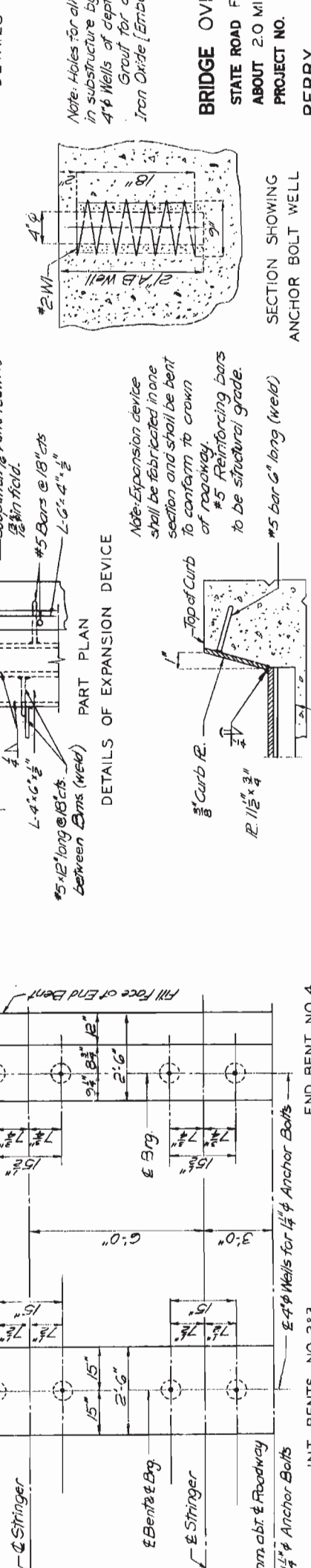
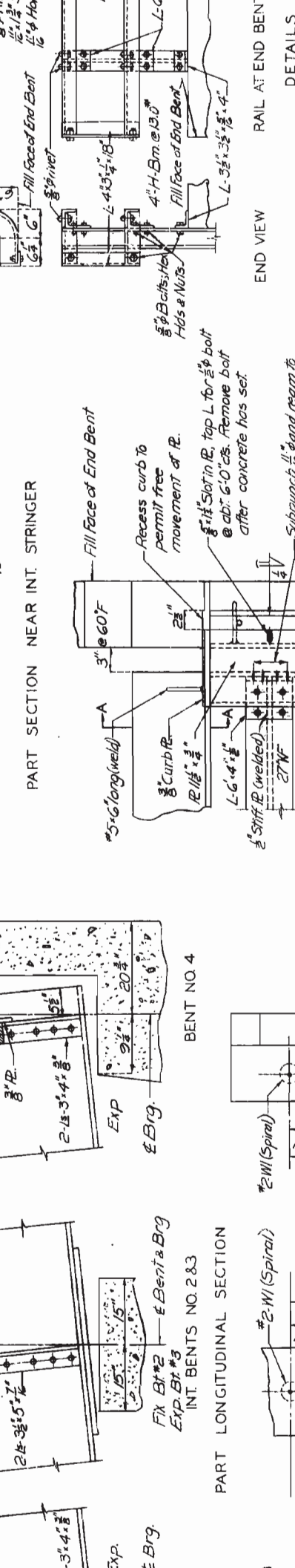
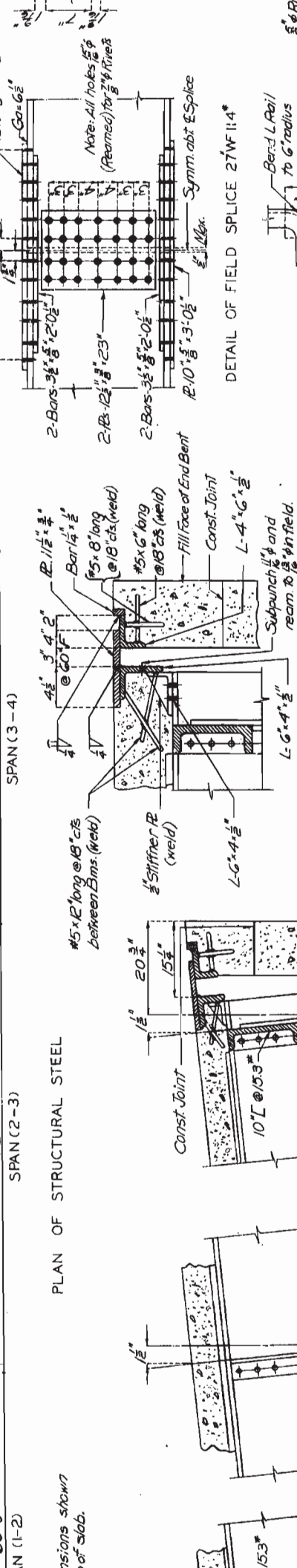
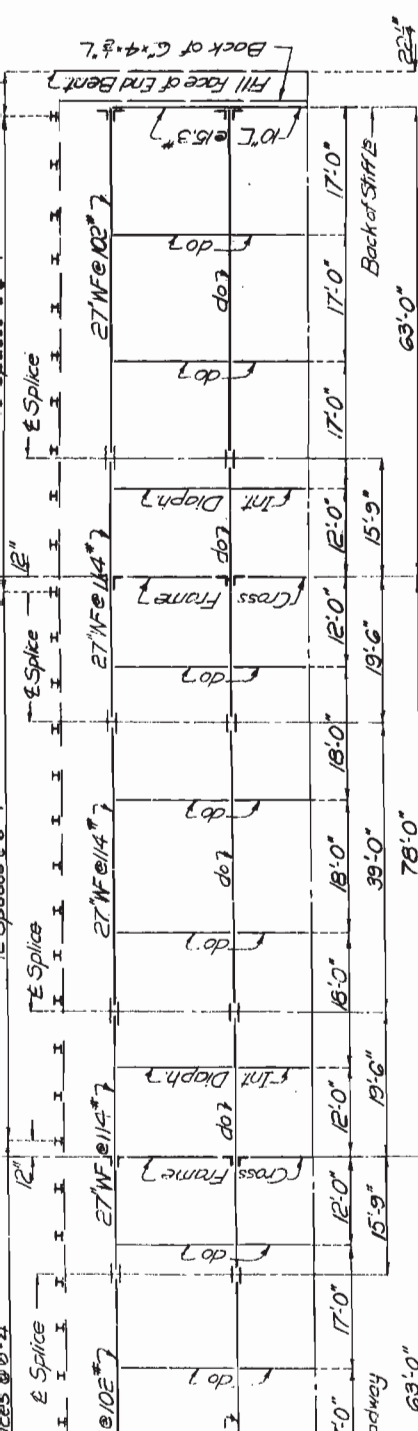
Square.

STEEL PILES

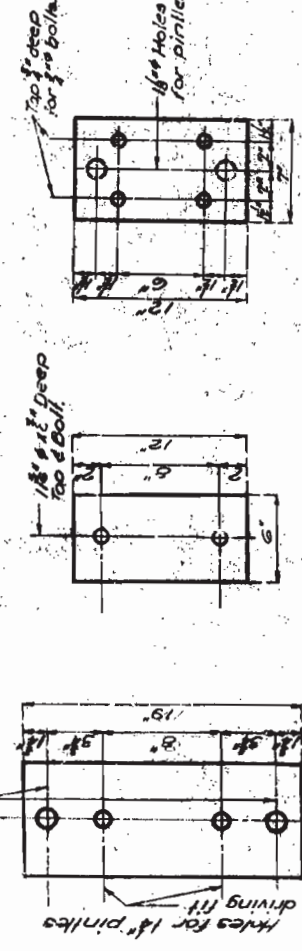


PLAN
DETAILS OF INTERMEDIATE BENTS NO.2 & 3

BRIDGE ON
STATE ROAD
ABOUT 2.0 M
PROJECT NO.
DEPBY



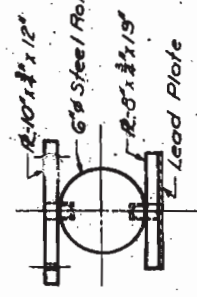




ROLLER
B Required

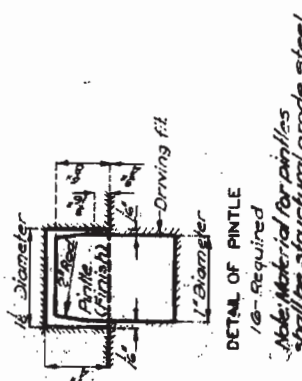
BOTTOM PLATE
B Required

BEVEL PLATE
B Required



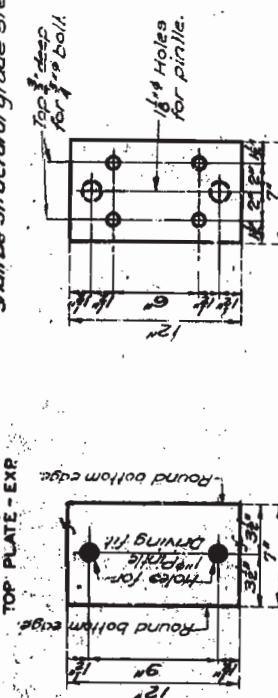
EXPANSION

Material for plates and pintles shall be U.S. 37-1 or equivalent. Material for rollers shall be carbon steel A.I. S.I.-C-1042 or C-1045 (Turned).
Roller plates shall be straightened to plane surfaces.
Rollers shall be packed for as fabricated structural steel.
BEARINGS AT END BENT NO. 1 & 4



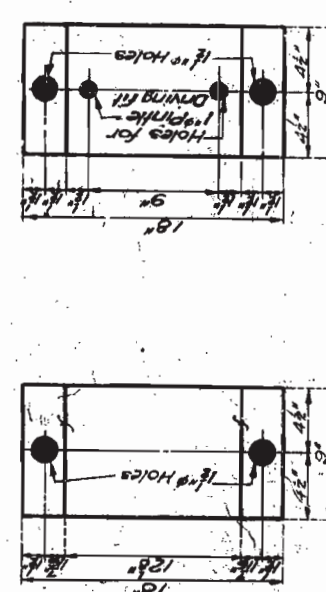
DETAIL OF PINTLE
1/8" Required

Note: Material for pintles shall be structural grade steel



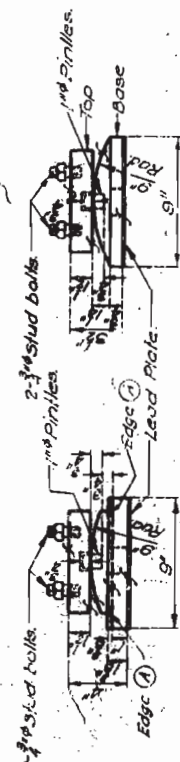
TOP PLATE - EXP.

TOP PLATE - FIX.



BOTTOM PLATE - EXP.

BOTTOM PLATE - FIX.

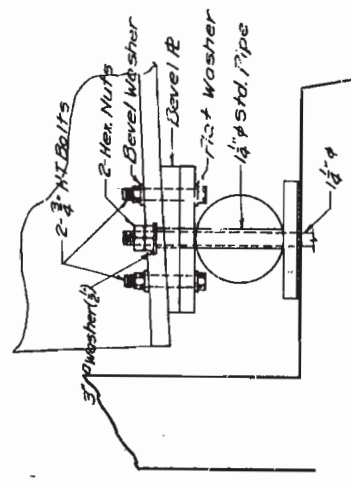


END ELEVATION - EXP.

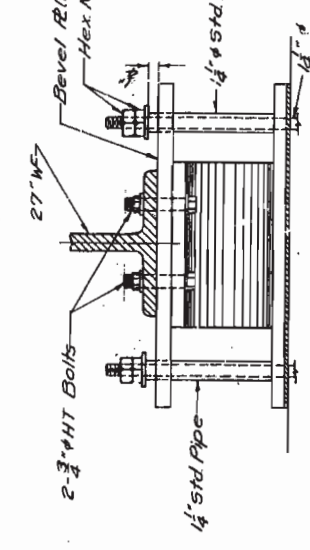
END ELEVATION - FIX.

TYPE "B" BEARINGS

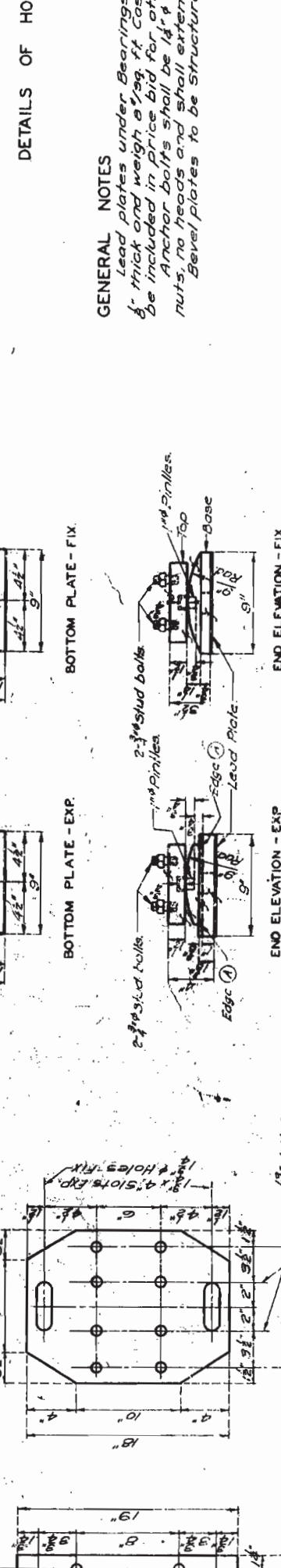
Required: 4 Sets of Expansion Castings Bent No. 3
4 Sets of Fix Castings Bent No. 2
Note: Finish all surfaces marked f.
either Gray Iron Alloy or cast steel, but
payment will be made as Gray Iron Alloy.
All bolts, nuts, and pintles shall be paid
for as fabricated structural steel.
Edge (A) to be rounded (1/2" to 3/4" Radius)



SIDE ELEVATION
BENTS NO. 1 & 4



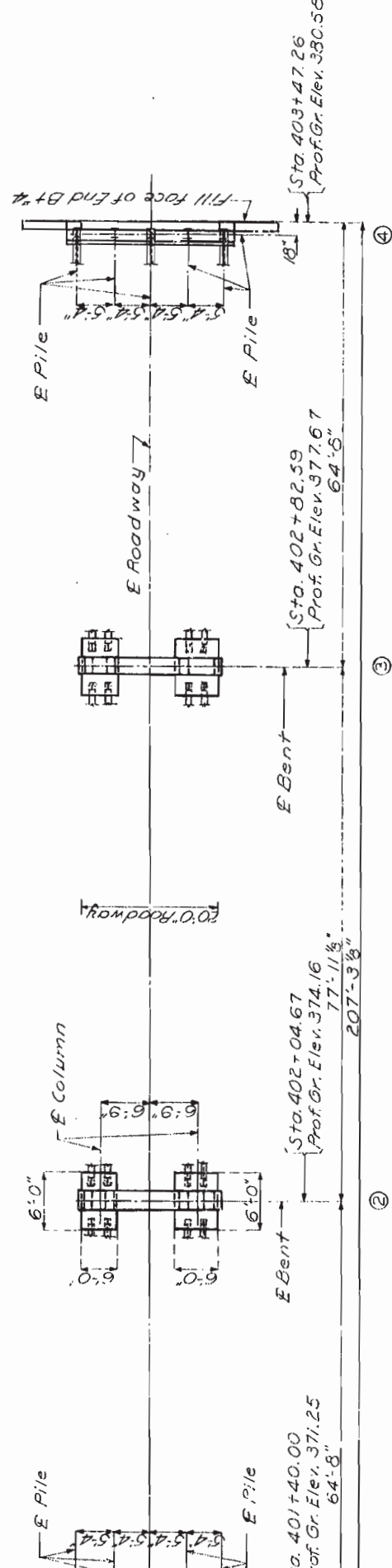
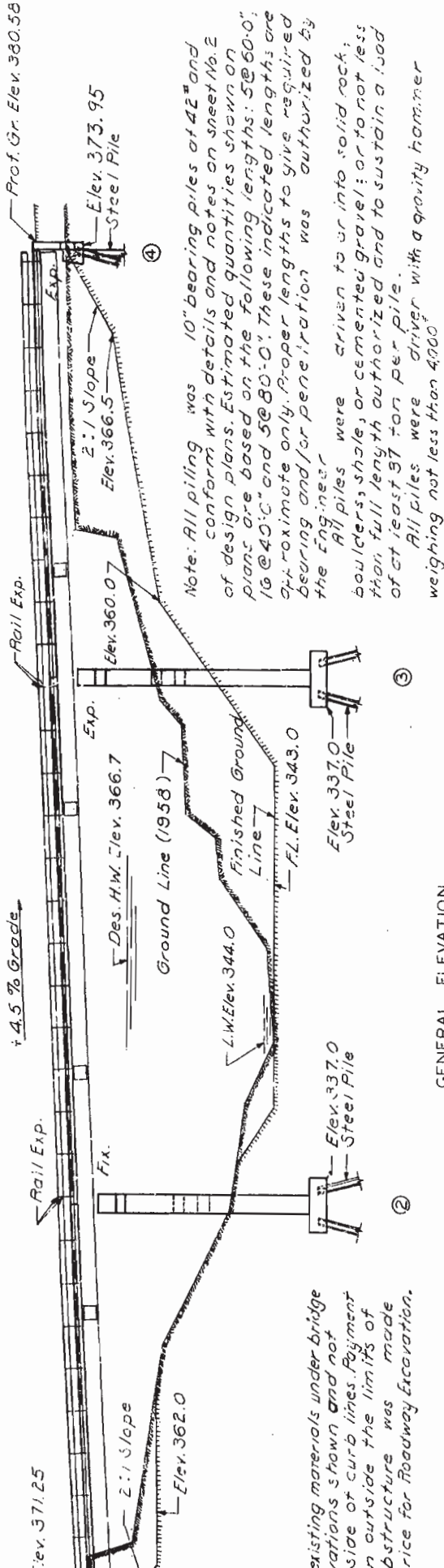
END ELEVATION
BENTS NO. 1 & 4



DETAILS OF HOLD DOWN

GENERAL NOTES

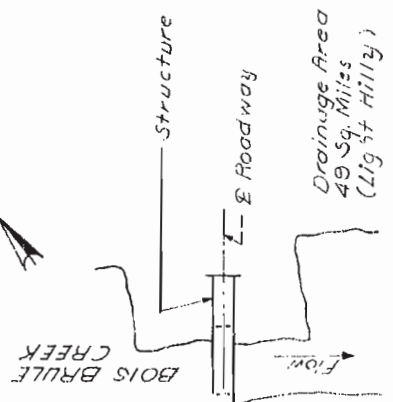
Lead plates under Bearings shall be 1/4" thick and weigh 8 1/2 lb. Cost of lead to be included in price bid for other items.
Anchor bolts shall be 1/4" x 1/2" x 1/8" nuts, no heads and shall extend 18" into
Bevel plates to be structural grade



FINAL QUANTITIES

Item	Superstr.	Substr.	Total
Class 1 Excavation for Structures	Cu. Yds. 173.5	Cu. Yds. 173.5	173.5
Class 2 Excavation for Structures	Cu. Yds. 96.0	Cu. Yds. 96.0	192.0
Class "B" Concrete	Cu. Yds. 100.5	Cu. Yds. 82.4	182.9
Fabricated Structural Steel	Lbs. 117,220	Lbs. 96,320	213,540
Reinforcing Steel	Lbs. 20,160	Lbs. 29,790	49,950
Gray Iron Alloy Castings	Lbs. 830	Lbs. 830	1,660
Steel Pile in-place	Lin. Ft. 1402	Lin. Ft. 74	1,476
Steel Pile cut-off	Lin. Ft. 74	Lin. Ft. 74	148
Removal of Existing Structure	4.5	1	5.5

Note: Excavation for bridge made above Elev. 345.0 was paid for as Class 1 Excavation for Structures.
 Excavation for bridge made below Elev. 345.0 was paid for as Class 2 Excavation for Structures.
 Final pay weight for fabricated Structural Steel was based on using field rivets except for bolted connections specified for handrail and bearings.



GENERAL NOTE: Design Load Class Reinforced Rivets Field noted. desired to project, he and beam machine be the % drive Standard and will always Quality Point bolted field steel bolts surfaces in of red lead. contractor, lead require Payment for was includ Structural it did con Where Remoulded 53'-22.0 of See S tions for re Permi loads over See S stay-in-plac

B.M.
 BRIDGE
 STATE ROAD
 ABOUT 2.0
 PROJECT NO.
 PERRY