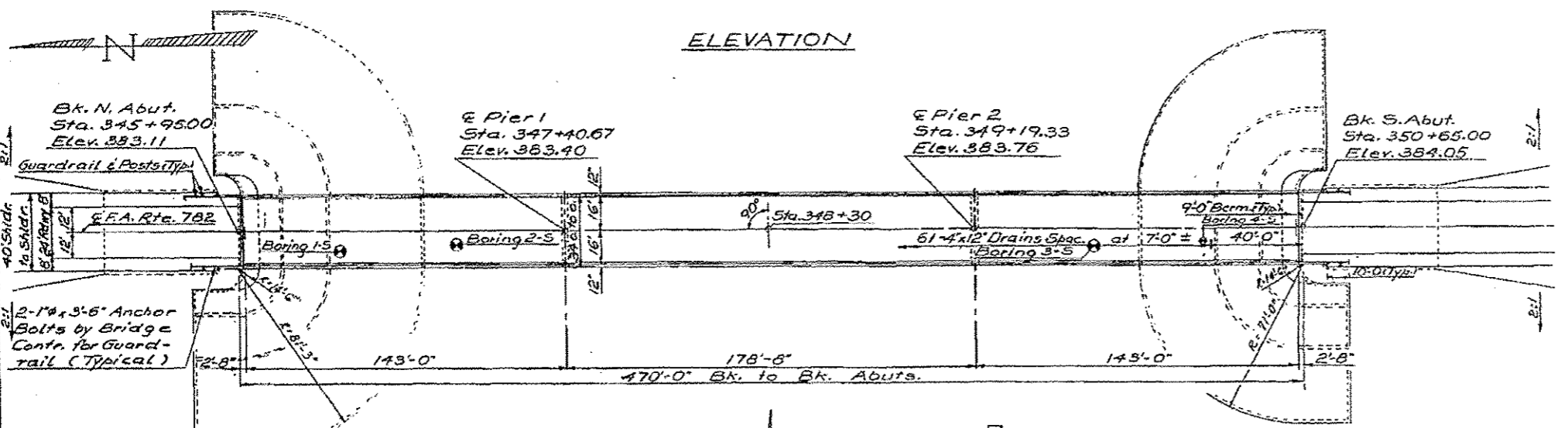
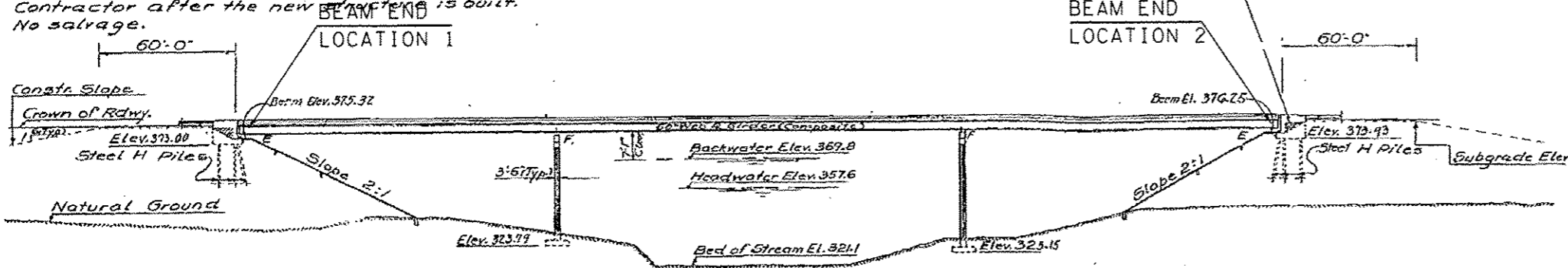


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

030-0021

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	113-1B	Gallatin	74	33

B.M.: R.R. Spike in twin 16" Pecan 42' Rt. Sta. 352+60 Elev. 363.09.  
Existing Structure: \*030-0006 Built as S.B.I. Rte. 140, Sec. 113-B, at Sta. 348+48 in 1931.  
The existing 8-I beam spans and one truss span superstructure on pile bents and R.C. Piers substructure shall be removed by the Contractor after the new structure is built. No salvage.

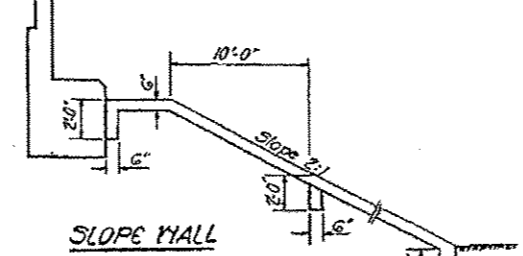


STATION 348+30  
BUILT 197 BY  
STATE OF ILLINOIS  
F.A. RTE. 782 SEC. 113-1B  
LOADING HS 20  
\*STR. NO.

NAME PLATE  
(See Std. 2113)  
\* Structure Number to be supplied by District.

**WATERWAY INFORMATION**

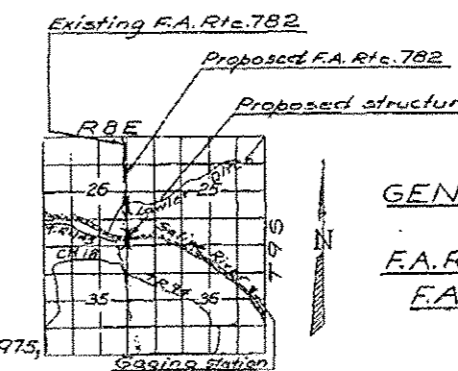
	Lawler Ditch	Saline River	Both Structures
Drainage Area	3.32 sq. mi.	101868 sq. mi.	1022 sq. mi.
Required Opening	1773 sq. ft.	8425 sq. ft.	10,198 sq. ft.
Proposed Opening	1773 sq. ft.	8425 sq. ft.	10,198 sq. ft.
Headwater Elev. (50)	357.6	357.6	357.6
Q <sub>50</sub>	6046 c.f.s.	36154 c.f.s.	42200 c.f.s.
Headwater Elev. (100)	359.4	359.4	359.4
Q <sub>100</sub>	7013 c.f.s.	44687 c.f.s.	51,700 c.f.s.
Backwater Elev. (50)	369.8	369.8	369.8
Created Head (50)	0.15'	0.15'	0.15'
Backwater Elev. (100)	372.4	372.4	372.4
Created Head (100)	0.23'	0.23'	0.23'



**DESIGN STRESSES**

$f_c = 3500 \text{ psi}$   
 $f_y = 60,000 \text{ psi (Reinf.)}$   
 $f_y = 50,000 \text{ psi (Struct.)}$

Loading HS20-44  
Allow 25% W/F for Future W.S.  
Design Specifications: 1973 AASHTO (1974, 1975, 1976 and 1977 Interim Specifications.  
\*\* Epoxy Coated Reinf. Bars shall be used in the top layer of the slab.



**GENERAL NOTES**

Fasteners shall be high strength bolts. Bolts 3/4" Ø, open holes 1 1/8" Ø, unless otherwise noted.  
Calculated weight of Structural Steel = 521390 lbs.

Anchor bolts shall be set before bolting cross frames over supports.  
Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 sq. ft.  
Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.

Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.  
The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.

All structural steel shall be AASHTO: M 222 unpainted.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ± 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

Protective coat shall be applied in accordance with Art. 503.12 of Standard Specifications.

For borings see Proposal.  
The Contractor shall drive 1 (one) steel test pile (HP10-42) in a permanent location of North abutment as directed by the Engineer before ordering the remainder of piles.

**TOTAL BILL OF MATERIAL**

Item	Unit	Super	Sub	Total
Removal of Existing Structures	Each			1
Class X Concrete	Cu. Yds.	483.3	441.6	924.9
Reinforcement Bars (Epoxy coated)	Lbs.	74370		74370
Reinforcement Bars	Lbs.	51650	61440	113090
Steel Piles (HP10-42)	Lin. Ft.		1074	1074
Test Piles (HP10-42)	Each			1
Name Plates	Each			1
Stud Shear Connectors	Each	3120		3120
Neoprene Expansion Jt. (4")	Lin. Ft.	66		66
Protective Coat	Sq. Yds.	6005		2005
Structural Steel	L.S.			1.5
Slope Wall (6")	Sq. Yds.		3060	3060
Structure Excavation	Cu. Yds.		473	473
Rock Excavation for Structures	Cu. Yds.		14	14

**GENERAL PLAN & ELEVATION PROJECT:**  
F.A. RTE. 782 OVER SALINE RIVER  
F.A. RTE. 782 SECTION 113-1B  
GALLATIN CO.  
STA. 348+30.00

DESIGNED: [Signature]  
CHECKED: [Signature]  
DRAWN: V.H. S.R.  
CHECKED: [Signature]

EXAMINED: [Signature]  
PASSED: [Signature]  
APPROVED: [Signature]

SEPTEMBER 26 1977



FILE NAME: c:\pwork\pwork\dahmer\jv\0302426178-8-shr-plan.dgn	USER NAME: dahmer	DESIGNED: -	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	030-0021	IL 1 OVER SALINE RIVER	F.A. RTE. 782	SECTION 113-1B	COUNTY GALLATIN	TOTAL SHEETS 74	SHEET NO. 33
PLOT SCALE: 1/4" = 1'-0"	PLOT DATE: 3/21/2014	CHECKED: -	REVISED: -	SCALE: SHEET OF SHEETS STA. TO STA.	030-0021	IL 1 OVER SALINE RIVER	VAR. 09 BRIDGE PAINT 2014-1				CONTRACT NO. 78418

NEW SHEET 6-3-14