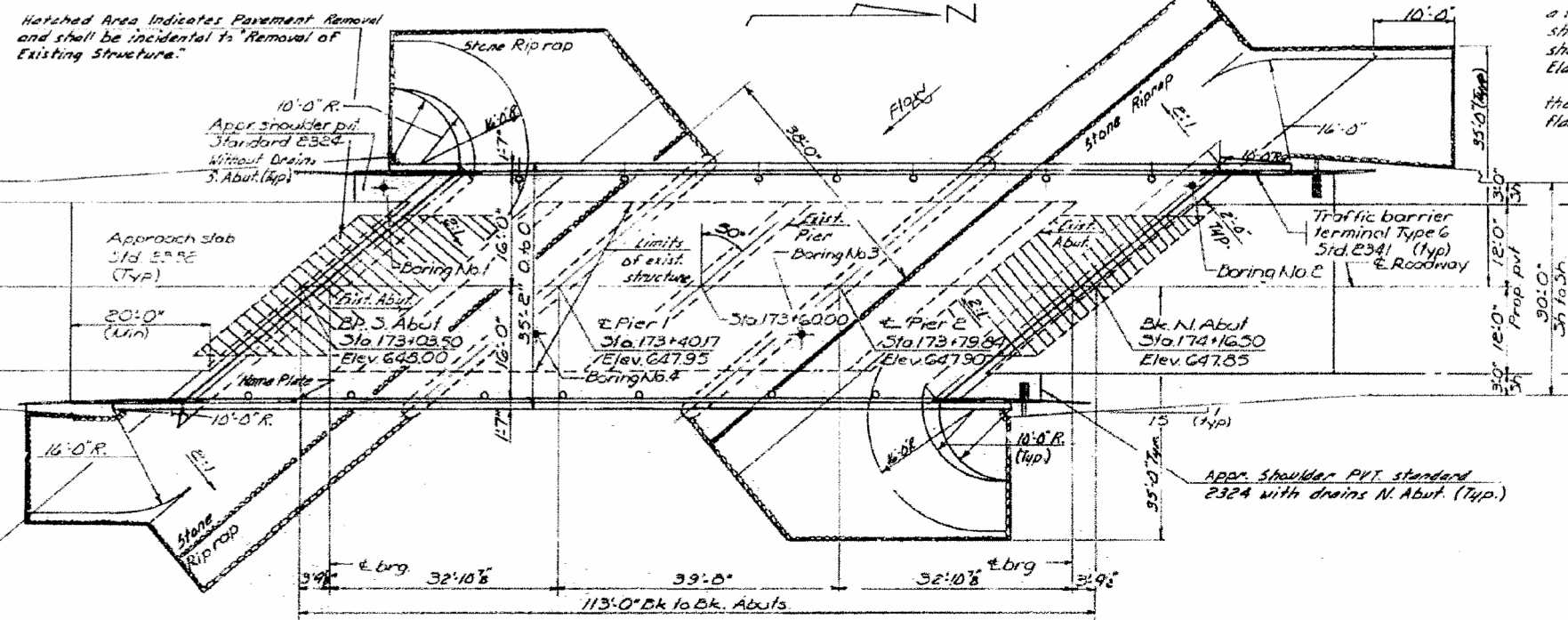
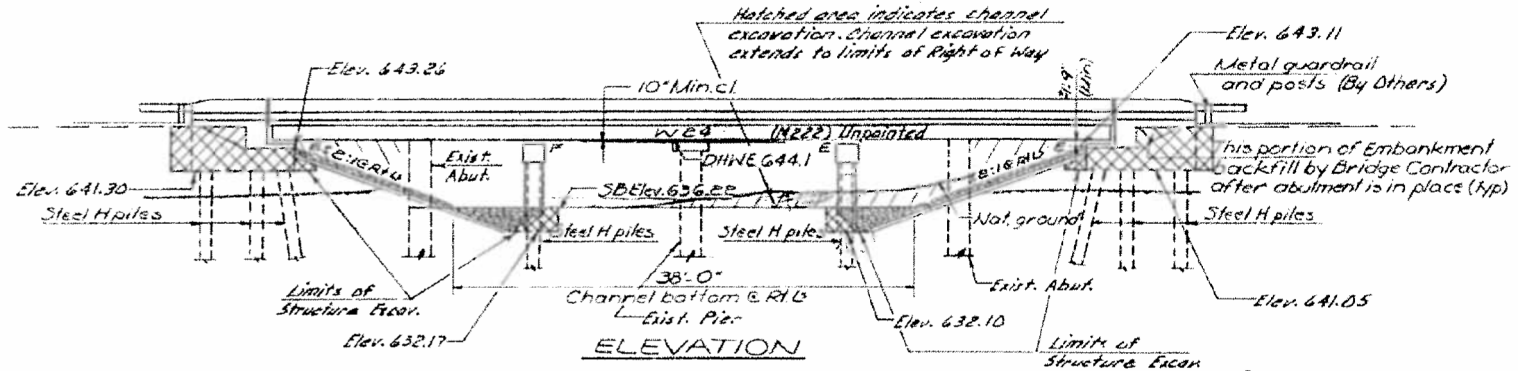


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11-1-59	1BR	Moultrie	38	20
SHEET NO. 1 12 SHEETS				

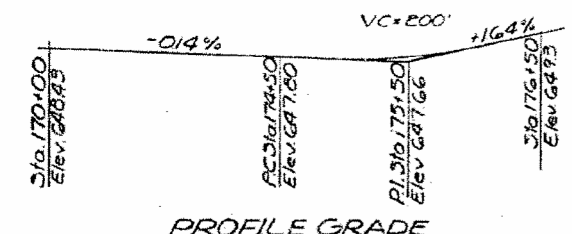
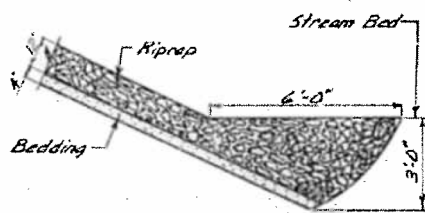
Bench Mark: Chisled "D" on north end of west hubguard. Elev 64377
Existing structure: Built as S.A. Route 6, Section 1-A-MFT in 1933 No. 070-0011
The Superstructure consists of reinforced concrete slab on steel I-beams
The substructure consists of creosoted plank and timber pile abutments
and creosoted timber pile pier. F to F: 23'-9" and Bk to Bk of abuts: 74'-6"
The Contractor shall remove the existing structure before the new one is constructed. Traffic will be detoured. No salvage.



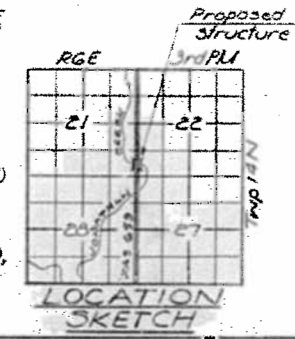
WATERWAY INFORMATION

Drainage Area: 1940 sq. mi. Low Grade Elev. 643.14 (Exist) 643.10 (Prop)

Flood	Yr.	Q CFS	Opening Sp. Ft.	Nat. HWE	Head-Ft. Exist	Head-Ft. Prop	Headwater El. Exist	Headwater El. Prop	
Design	30	1766	252	394	644.14	0.56	0.51	644.7	644.65
Base	100	2251	252	394	644.0	0.94	0.79	645.74	645.59
Overlapping									
Max. Calc.	500	2869	252	394	645.6	1.17	0.56	646.8	646.6



DESIGN STRESSES
 $f_c = 3500$ psi
 $f_y = 60,000$ psi (Reinf.)
 $f_y = 50,000$ psi (Struct.)
 (M-222 unpainted)



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Class 1 Concrete	Cu. Yds.	122.0	145.8	317.8
Structural Steel	Lbs.	—	—	0.7
Protective Coat	Sq. Yds.	500	—	500
Neoprene Expansion Joint (2")	Lin. Ft.	104	—	104
Floor Drains	Each	14	—	14
Elastomeric Brg. Assem. Type I	Each	15	—	15
Steel Piles (HP Bx36)	Lin. Ft.	—	1078	1078
Test Piles Steel (HP Bx36)	Each	—	2	2
Structure Excavation	Cu. Yds.	—	283	283
Reinforcement Bars	Lbs.	11280	15680	26960
Reinforcement Bars (Epoxy Coated)	Lbs.	17950	—	17950
Name Plate	Each	1	—	1
Riprap	Sq. Yds.	—	437	437
Channel Excavation	Cu. Yds.	—	467	467
Removal of Existing Structure No. 2	Each	—	1	1

NAME PLATE
 STATION 173+60.00
 JONATHAN CREEK
 BUILT 198—
 F.A.S. RTE. 659 SEC. 1-BR
 FA PROJ. BRS 659(102)
 LOADINGS HS 20
 *STR. NO. ———

Allow 25" lift for future wearing surface.
 Design Specifications: 1977 AASHTO, 1978, 1979 and 1980 Interims.
LOADING HS20-44

GENERAL PLAN
 F.A.S. RTE. 659 OVER JONATHAN CREEK
 F.A.S. ROUTE 659
 SECTION 1-BR
 MOULTRIE COUNTY
 STATION 173+6000

DESIGNED: Chisler, P. B. 1981
 CHECKED: R. F. Rainey
 DRAWN: R. Summer
 CHECKED: R. F. C. R.P.

EXAMINED: James H. Rayburn
 PASSED: Carl E. Thompson
 APPROVED: [Signature]