

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOWNSHIP	SHEET NO.
F.A.U. 9079	65BR	MADISON	46	18
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT

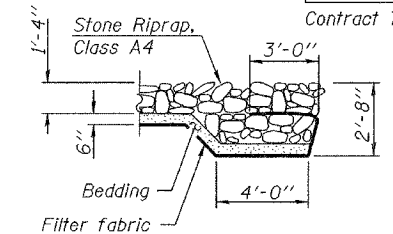
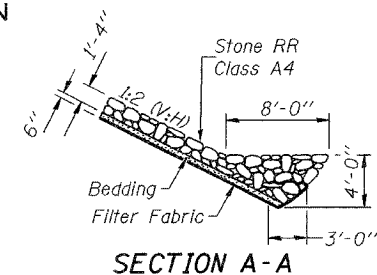
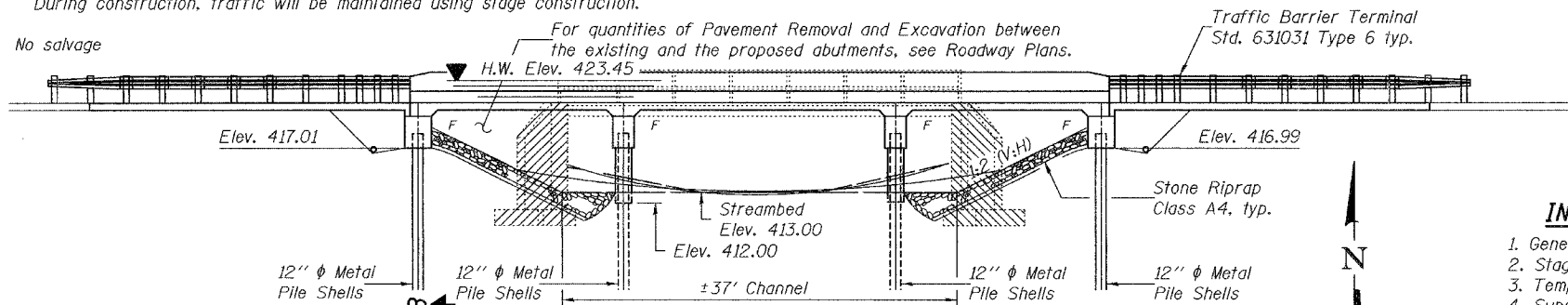
SHEET NO. 1  
11 SHEETS

Bench Mark: Square cut on S.E. corner of wingwall of bridge. Elevation 421.96.

Existing Structure: S.N. 060-0069 built in 1920 as F.A.P. B section Y. Widened and reconstructed in 1932 as S.B.I. Route 4 section 65-B. The existing superstructure consists of a reinforced concrete deck supported by single span steel wide flange beams. The substructure consists of closed abutments. The back to back of abutment length is 38'-0" and the face to face width of the deck is 42'-9". The structure is to be replaced. During construction, traffic will be maintained using stage construction.

No salvage

For quantities of Pavement Removal and Excavation between the existing and the proposed abutments, see Roadway Plans.



Contract 76136

STATION 388+43.96  
BUILT 20 BY  
STATE OF ILLINOIS  
F.A.U. RT. 9079 - SEC. 65BR  
LOADING HS20  
STR. NO. 060-0236

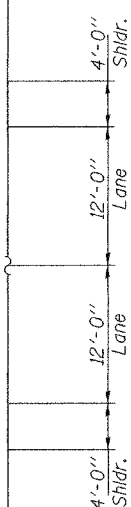
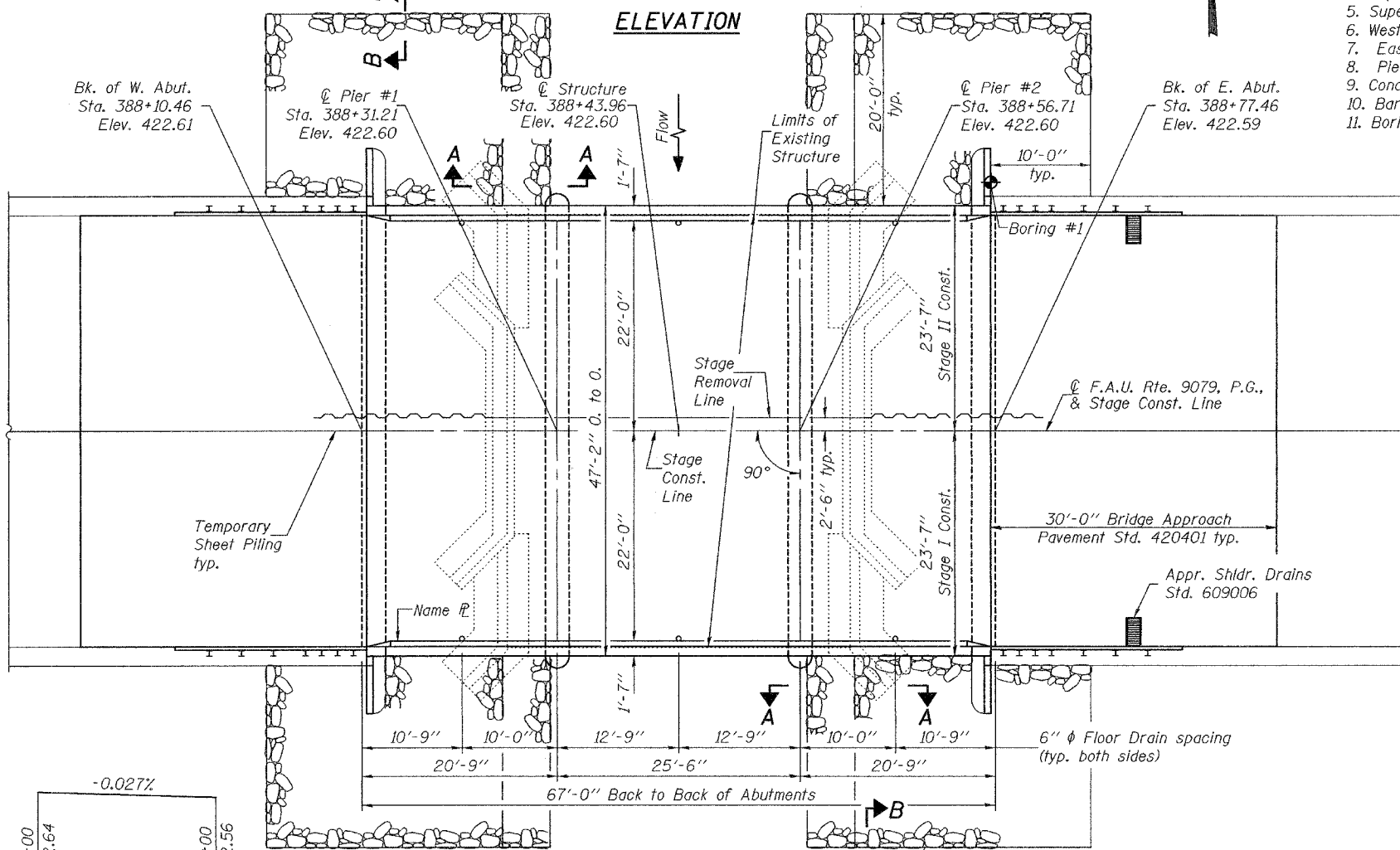
NAME PLATE  
See Std. 515001

INDEX OF SHEETS

1. General Plan and Elevation
2. Stage Construction Details
3. Temporary Concrete Barrier for Stage Construction
4. Superstructure
5. Superstructure Details
6. West Abutment
7. East Abutment
8. Piers
9. Concrete Pile Details
10. Bar Splicer Assembly Details
11. Boring Logs

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.  
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.  
The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.  
The backfill behind the abutments shall be placed after the deck slab is in place and the forms removed.  
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project. Reinforcement bars designated (E) shall be epoxy coated.



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		78	78
Stone Riprap, Class A4	Sq. Yd.		437	437
Filter Fabric	Sq. Yd.		437	437
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		184	184
Floor Drains	Each	6		6
Concrete Structures	Cu. Yd.		100.0	100.0
Concrete Superstructure	Cu. Yd.	169.8		169.8
Bridge Deck Grooving	Sq. Yd.	308		308
Protective Coat	Sq. Yd.	378		378
Reinforcement Bars, Epoxy Coated	Pound	29410	11280	40690
Test Pile Metal Shells	Each		2	2
Temporary Sheet Piling	Sq. Ft.		827	827
Name Plates	Each	1		1
Furnishing Metal Pile Shells 12" φ	Foot		1134	1134
Driving Piles	Foot		1134	1134
Underwater Structure Excavation Protection Loc. 1	Each		1	1
Underwater Structure Excavation Protection Loc. 2	Each		1	1
Bar Splicers	Each	122	64	186
Pipe Underdrains for Structures, 4"	Foot		148	148
Geocomposite Wall Drain	Sq. Yd.		48	48

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

1996 AASHTO with 1997 thru 2002 Interims

DESIGN STRESSES

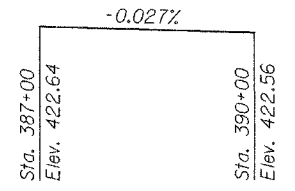
FIELD UNITS  
f<sub>c</sub> = 3,500 psi  
f<sub>y</sub> = 60,000 psi (reinforcement)

SEISMIC DATA

Seismic Performance Category (SPC) = B  
Bedrock Acceleration Coefficient (A) = 0.10g  
Site Coefficient (S) = 1.5

PROFILE GRADE

(along centerline of roadway)



DESIGNED	Alison L. Young
CHECKED	J.P.A. & T.R.B.
DRAWN	BECKY M. LEACH
CHECKED	XXT/BA

EXAMINED  
November 22, 2006  
Thommas J. Dumas, P.E.  
ENGINEER OF BRIDGE DESIGN  
PASSED  
Ralph E. Anderson  
ENGINEER OF BRIDGES AND STRUCTURES

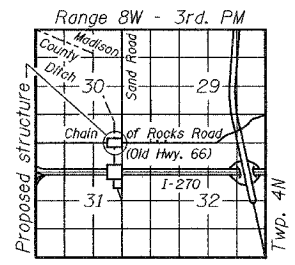


EXPIRES 11-30-2008

WATERWAY INFORMATION

Drainage Area = 7.72 sq. mi. Low Grade Elev. 422.43 @ Sta. 388+22

Flood	Freq. Yr.	Q C.F.S.	Opening Exist.	Opening Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater E.L. Exist.	Headwater E.L. Prop.
Design	50	839	239	312	423.45	0.09	0.08	423.54	423.53
Base	100	1138	239	312	424.90	0.10	0.10	425.00	425.00
Overtopping	17	640	239	312	422.30	0.13	0.13	423.43	423.43
Max. Calc.	500	-	-	-	-	-	-	-	-



LOCATION SKETCH

GENERAL PLAN & ELEVATION  
OLD HIGHWAY 66 OVER  
MADISON COUNTY DITCH  
F.A.U. ROUTE 9079 - SECTION 65BR  
MADISON COUNTY  
STATION 388+43.96  
STRUCTURE NO. 060-0236