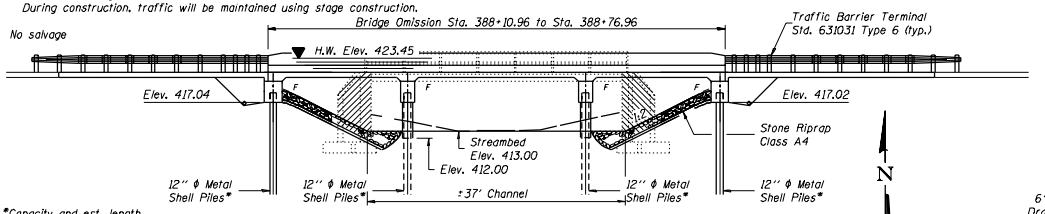
Bench Mark: Square cut on S.E. corner of wingwall of bridge. Elevation 421.96.

Existing Structure: S.N. 060-0069 built in 1920 as F.A.P. 8 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 40'-0''. The structure is to be replaced. During construction, traffic will be maintained using stage construction.

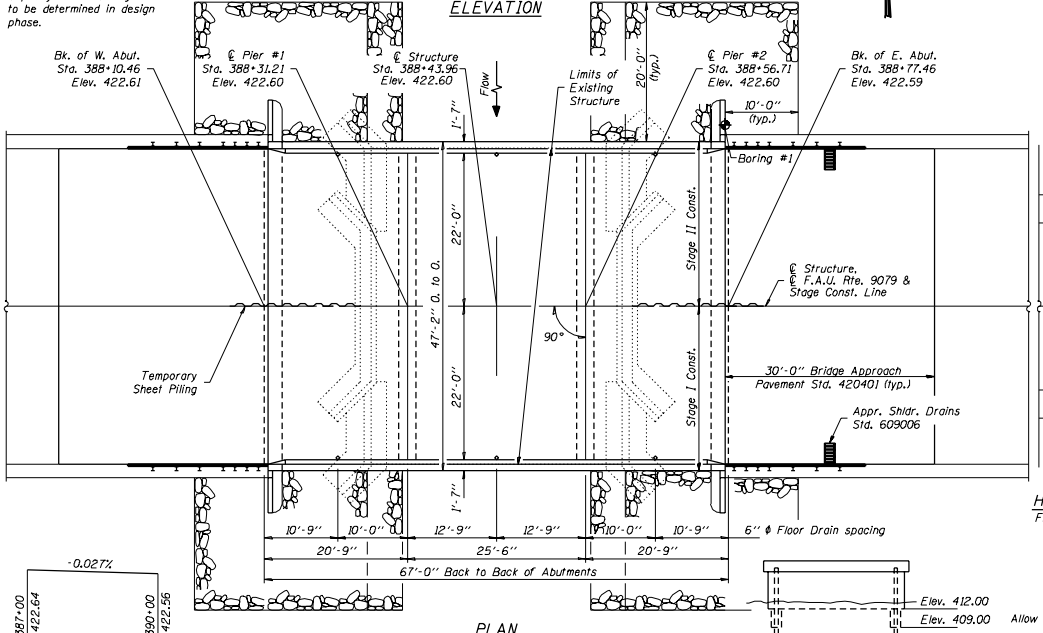
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1
1 SHEET

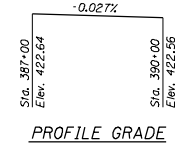


*Capacity and est. length to be determined in design phase.

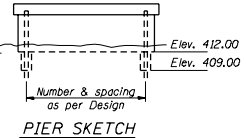
ELEVATION



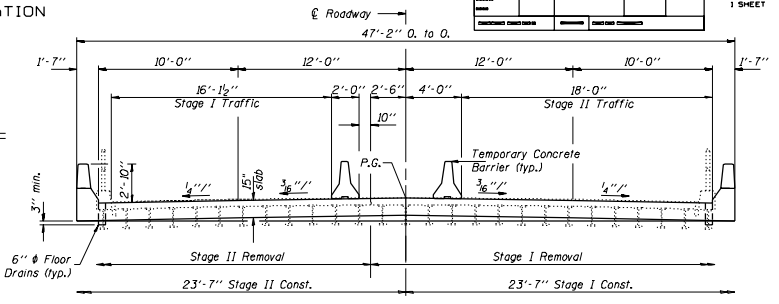
PLAN



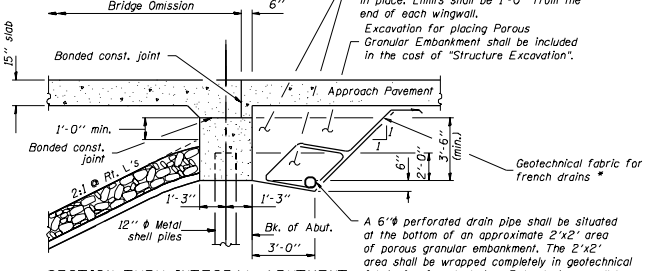
PROFILE GRADE
(along ℄ roadway)



PIER SKETCH



CROSS SECTION
(Looking East)



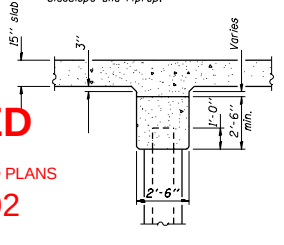
Backfill with uncompacted porous granular embankment with a gradation of CA-5 or CA-7 by Bridge Contractor after superstructure is in place. Limits shall be 1'-0'' from the end of each wingwall.

Excavation for placing Porous Granular Embankment shall be included in the cost of "Structure Excavation".

A 6''ϕ perforated drain pipe shall be situated at the bottom of an approximate 2'x2' area of porous granular embankment. The 2'x2' area shall be wrapped completely in geotechnical fabric for french drains. Extend pipe parallel with the cap until intersecting with the sideslope and riprap.*

SECTION THRU INTEGRAL ABUTMENT

* - Included in the cost of "Porous Granular Embankment".



SECTION THRU PIER

HIGHWAY CLASSIFICATION
F.A.U. Rte. 9079 - Old Highway 66
Functional Class: Minor Arterial
ADT: 3,500 (1996); 4,200 (2002)
Design Speed: 50 m.p.h.
Posted Speed: 50 m.p.h.

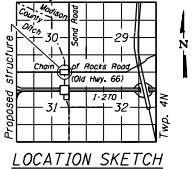
LOADING HS20-44
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
1996 AASHTO with 1997 thru 2002 Interims

DESIGN STRESSES
FIELD UNITS
f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)

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

APPROVED
AS A BASIS FOR PREPARATION OF DETAILED PLANS
JUN 14 2002



LOCATION SKETCH

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

WATERWAY INFORMATION

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

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. 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	-	-	-	-	-	-	-	-

DESIGNED	D.G. Verhulst
CHECKED	
DRAWN	W.D. Collins
CHECKED	M.K. Christensen

EXAMINED 20
ENGINEER OF BRIDGE DESIGN
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

6-14-02

P-98-166-99