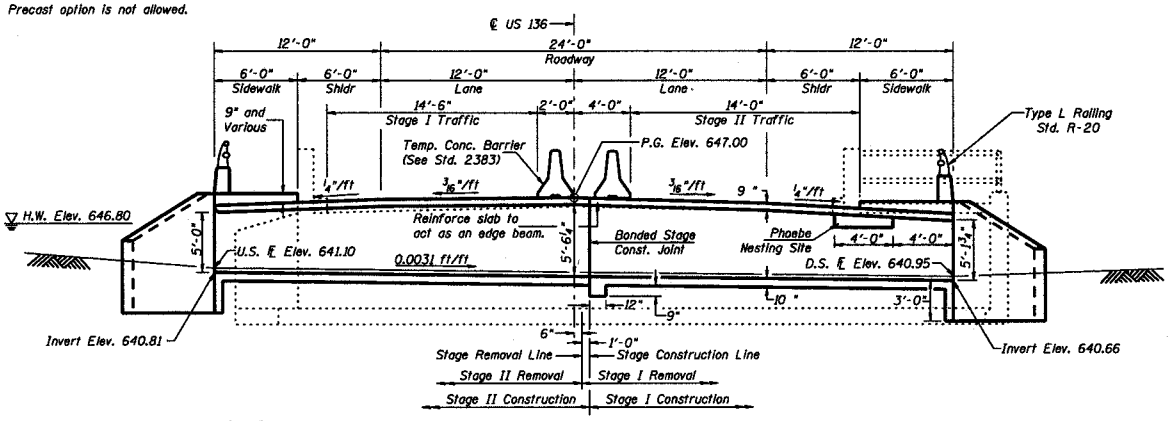
Benchmark: A chiselled square on the northwest wingwall of existing S.N. 055-0023. Elevation 646.16

Existing Structure: The existing Structure No. 055-0023, constructed in 1928, is a single span reinforced concrete slab supported on closed abutments with wingwalls. Back to back abutments is 16'-0". Section and route of existing structure are (108B)BR and F. A. 315(US 136), respectively. Structure to be removed and replaced with a cast-in-place 6'x8' double box culvert. Traffic to be maintained utilizing Stage Construction. No Salvage

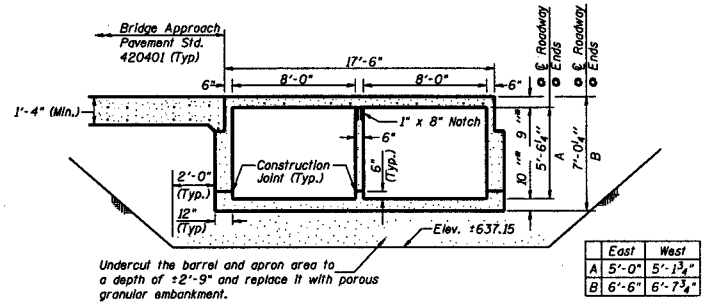
Precast option is not allowed.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 315 US 136	(108B)BR	McDONOUGH		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 1
1 SHEETS



ELEVATION



	East	West
A	5'-0"	5'-1 3/4"
B	6'-6"	6'-7 3/4"

SECTION THRU BARREL

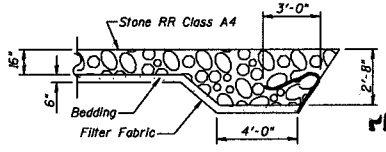
* Slab thickness to be refined in Final Design.

Note: Vertical reinforcement in the ex[illegible] Bracing or excavation behind w[illegible]

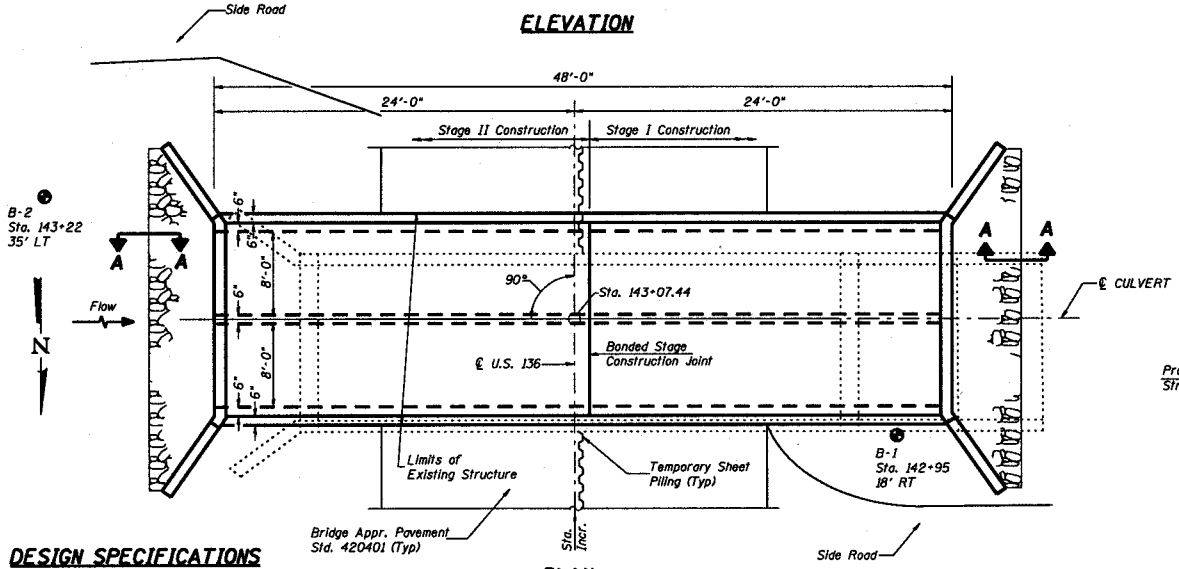
APPROVED

JAN 08 2003

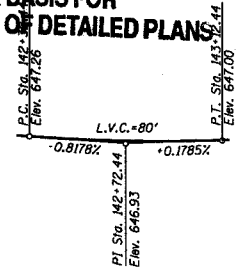
AS A BASIS FOR PREPARATION OF DETAILED PLANS



SECTION A-A

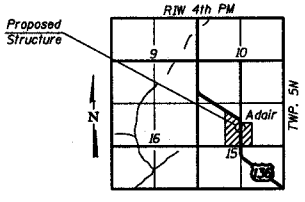


PLAN



PROFILE GRADE

(Along ℄ Roadway)



LOCATION SKETCH

CURVE DATA

PI Sta. = 142+35.03
Δ = 9°58'08" (RT)
D = 8°43'46"
T = 57.24'
R = 656.35'
L = 114.20'
E = 2.49'
PC Sta. = 141+77.78
PT Sta. = 142+91.98
POT Sta. = 143+05.50

DESIGN SPECIFICATIONS

1996 AASHTO "Standard Specifications for Highway Bridges", with 1997 - 2002 Interims

HIGHWAY CLASSIFICATION

ADT: 3050 (1997)
4232 (2014)
Function Class: Other Principal Arterial
Class II Truck Route
Design Speed: 35 MPH
Posted Speed: 35 MPH

DESIGN STRESSES

(Field Units)
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

LOADING HS20-44

Allow 50 lb/sq. ft for future wearing surface

WATERWAY INFORMATION

Drainage Area = 1.0 sq. mi. Low Grade Elev. 647.0'

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	489	57	80.0	646.8	1.4	0.3	648.2	647.1
Base	100	570	57	80.0	647.0	1.4	0.2	648.4	647.2
Max. Calc.	500	767	57	80.0	647.3	1.3	0.1	648.6	647.5

REVISIONS NUMBER	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
F.A. RTE 315(U.S. ROUTE 136)
OVER CAMP CREEK TRIBUTARY
SECTION (108B)BR
McDONOUGH COUNTY
STA. 143+07.44
STRUCTURE. NO. 055-2500