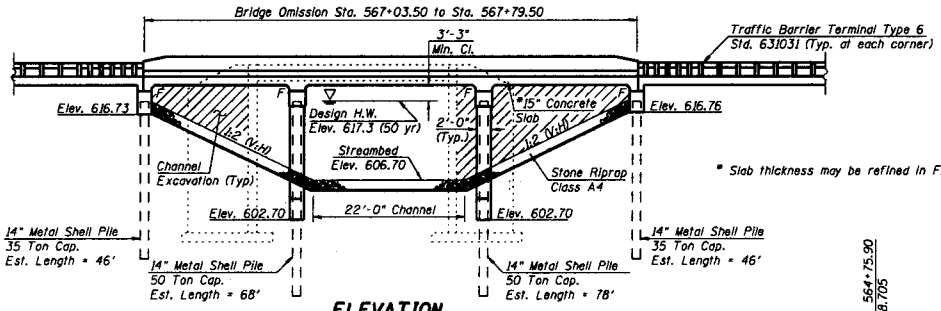
Bench Mark:
A chiseled square on the Southwest wingwall of existing S.N. 055-0007. Elevation 620.90

Existing Structure:
The existing Structure No. 055-0007, Constructed in 1924, is a single span reinforced concrete tee beam bridge on closed abutments with wingwalls. Back to back abutments length is 33'-0" and out to out deck width is 32'-8". The existing structure was rehabilitated in 1997. The rehabilitation work consisted of adding two longitudinal WF beams in each bay between the existing concrete tee beams. The Contractor shall remove and replace the structure with a three span slab bridge. Staged Construction will be utilized to maintain one lane of traffic during construction.
No Salvage.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 310 US 67	(41A) BR	McDonough		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

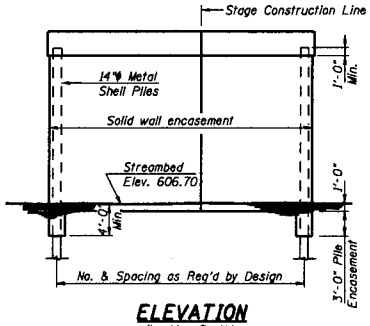
SHEET NO. 1
2 SHEETS

Contract #88939



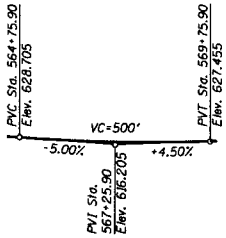
* Slab thickness may be refined in Final Design

ELEVATION

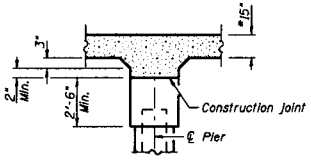


ELEVATION
(Looking South)

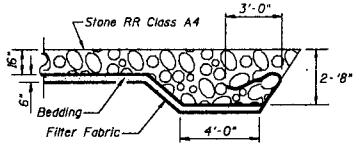
PIER SKETCH



PROFILE GRADE
(US 67 Along ℄ Roadway)



SECTION THRU PIER



SECTION A-A

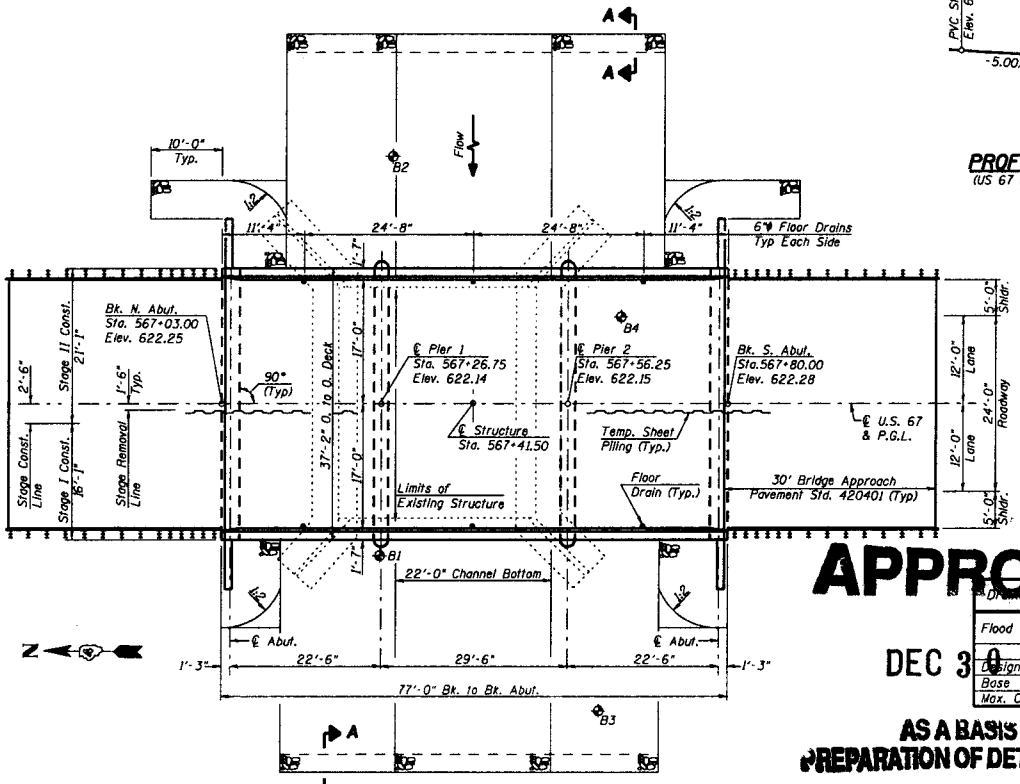
DESIGN SPECIFICATIONS
2002 AASHTO Specifications

DESIGN STRESSES
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

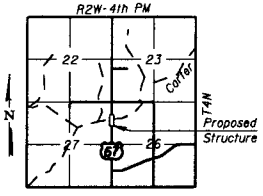
LOADING HS20-44
Allow 50 lb/sq. ft for future wearing surface

SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.041g
Site Coefficient (S) = 1.5

HIGHWAY CLASSIFICATION
F.A.P. RTE. 310 - US RTE. 67
ADT: 2400 (1997) 3300 (2014)
ADTT: 456 (1997) 627 (2014)
Function Class: Other Principal Arterial
Class II Truck Route
Design Speed: 55 MPH
Posted Speed: 55 MPH



PLAN



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area 16.0 Sq. Mi. Low Grade Elev. 621.0 At Sta. 567+41

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	10	1217	249	359	616.1	0.3	0.0	616.4	616.1
	50	1917	283	425	617.3	0.9	0.4	618.2	617.7
Base	100	2219	295	451	617.7	1.1	0.5	618.8	618.2
Max. Calc.	500	2952	303	509	618.6	1.9	0.8	620.5	619.4

APPROVED

DEC 30 2003

AS A BASIS FOR PREPARATION OF DETAILED PLAN

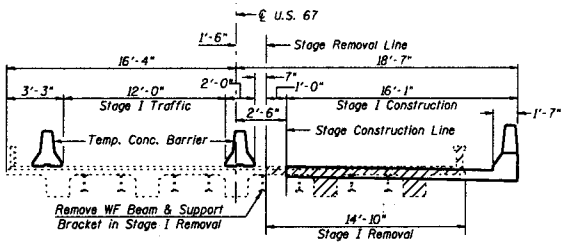
ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
F.A.P. ROUTE 310 (US 67)
OVER CARTER CREEK
SECTION (41A)BR
MCDONOUGH COUNTY
STA. 567+41.50
S.N. 055-0048

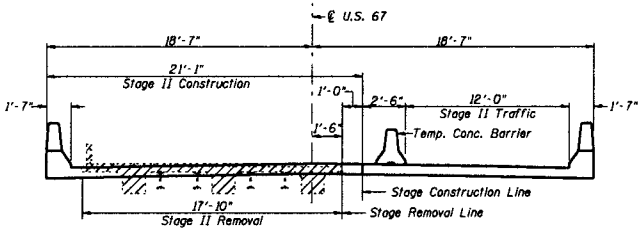
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 310 US 67	(41A) BR	McDonough		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 2
2 SHEETS

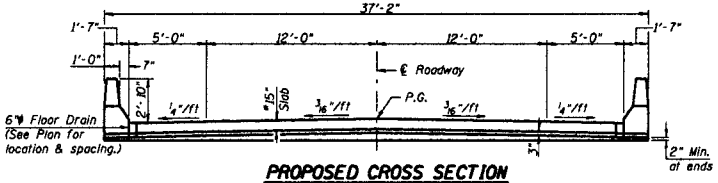
Contract #88939



STAGE I REMOVAL & CONSTRUCTION
(Looking South)

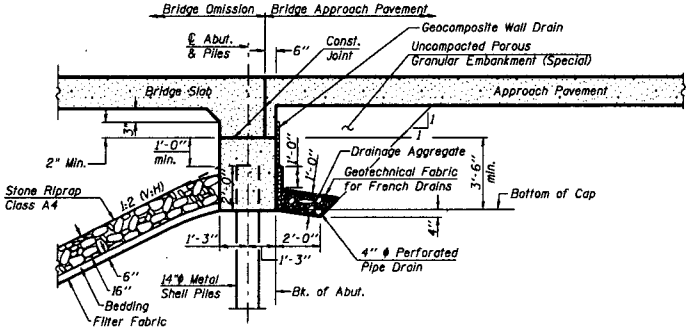


STAGE II REMOVAL & CONSTRUCTION
(Looking South)



PROPOSED CROSS SECTION

* Slab thickness may be refined in Final Design



SECTION THRU INTEGRAL ABUTMENT

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS
F.A.P. ROUTE 310 (US 67)
OVER CARTER CREEK
SECTION (41A)BR
MCDONOUGH COUNTY
STA. 567+41.50
S.N. 055-0048