

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

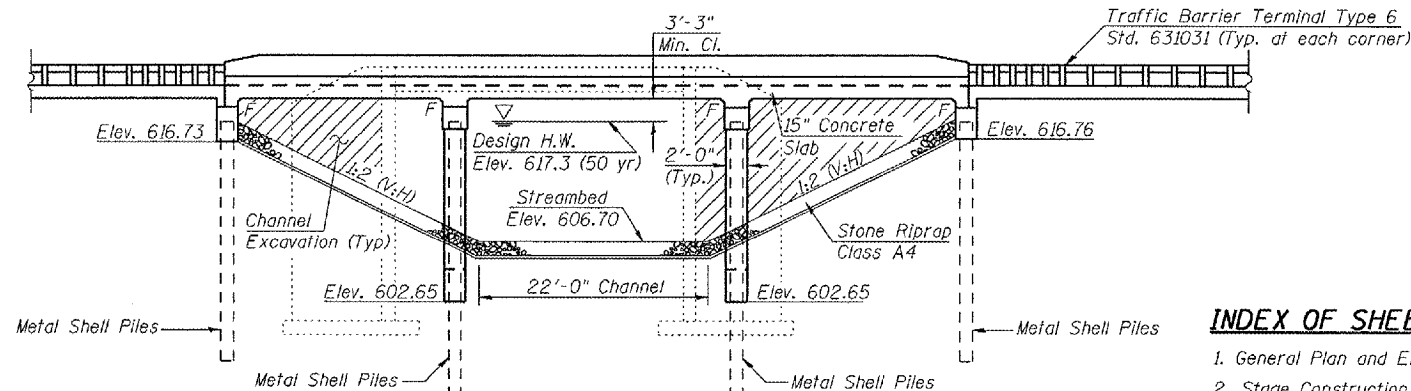
Existing Structure:
The existing Structure No. 055-0007, Constructed in 1924, is a single span reinforced concrete tee beam bridge on closed abutments with wingwalls. Back to back abutments length is 33'-0" and out to out deck width is 32'-8". The existing structure was rehabilitated in 1997, which added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

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
F.A.P. 310	(41A)BR	McDonough	58	18
U.S. 67				16 SHEETS
FED. ROAD DIST. NO. 4		FED. AID PROJECT NO.		

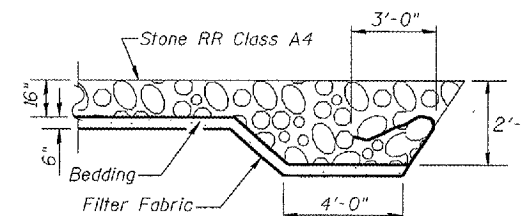
Contract #88939

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.
2. Placement of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
3. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.
4. The Contractor shall drive one Metal Shell test pile in a permanent location at each the North Abutment and at Pier 2 as directed by the Engineer before ordering the remainder of piles.
5. All construction joints shall be bonded.
6. Excavation behind existing abutment walls shall be done before removing the existing superstructure. The Contractor shall sawcut the existing abutments at the stage removal line before Stage I removal.
7. Bridge approach slab shall be poured after removal of concrete slab forms.



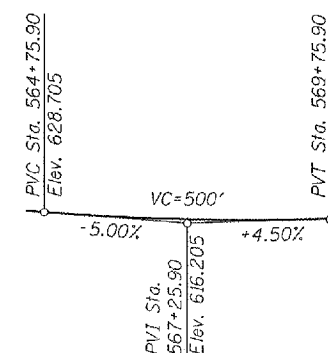
ELEVATION



SECTION A-A

INDEX OF SHEETS

1. General Plan and Elevation
2. Stage Construction Details
3. Slab Elevations
4. Superstructure
5. Superstructure Details
6. North Abutment
7. South Abutment
8. Piers
9. Temporary Concrete Barrier
10. Bar Splicer Assembly Details
11. Pile Details
- 12-16. Soil Borings



PROFILE GRADE
(US 67 Along & Roadway)

DESIGN SPECIFICATIONS

2002 AASHTO Specifications

DESIGN STRESSES

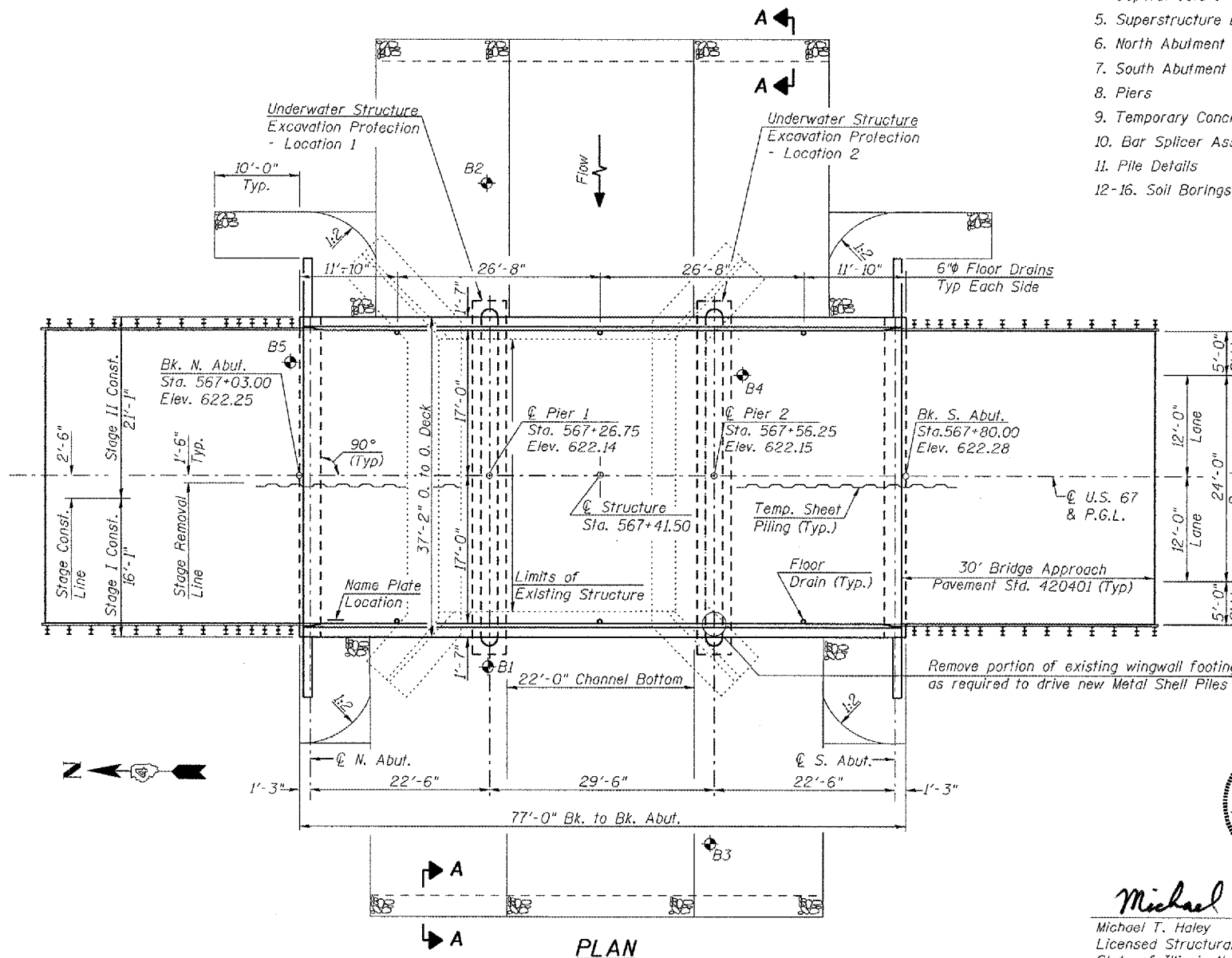
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

LOADING HS20-44

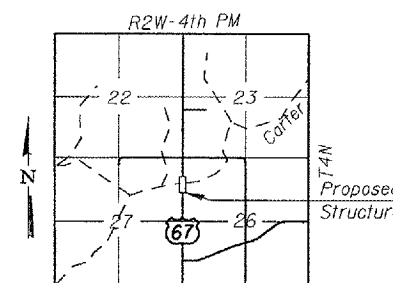
Allow 50 lb/sq. ft for future wearing surface

SEISMIC DATA

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



PLAN



LOCATION SKETCH

STATION 567+41.50
BUILT 20... BY
STATE OF ILLINOIS
F.A.P. RTE. 310 SEC (41A)BR
LOADING HS20
STRUCTURE NO. 055-0048

NAME PLATE
(See Std. 515001)

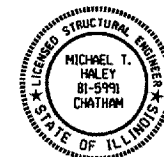
WATERWAY INFORMATION

Drainage Area = 10.0 Sq. Mi. Low Grade Elev. 621.0 At Sta. 567+41

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head-Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
-	10	1217	249	359	616.1	0.3	0.0	616.4	616.1
Design	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
For Structural Adequacy Only

Ralph E. Anderson
Engineer of Bridges & Structures



Michael J. Hony 6-28-06 Date
Michael T. Haley
Licensed Structural Engineer
State of Illinois No. 81-5991

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Chatham, Illinois 61828
Phone: 465-4465 Fax: 465-4736
Designed By: DLS Checked By: MTH Drawn By: ADP
Date: 02/06 File: 0550048.DGN

REVISIONS	
NAME	DATE

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