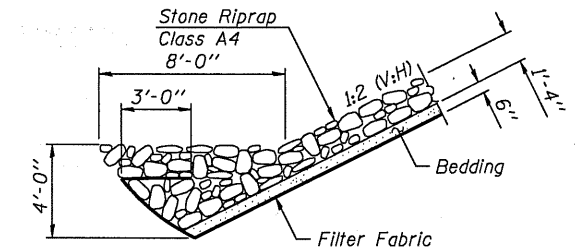
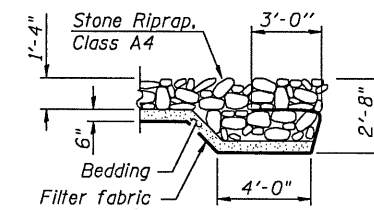
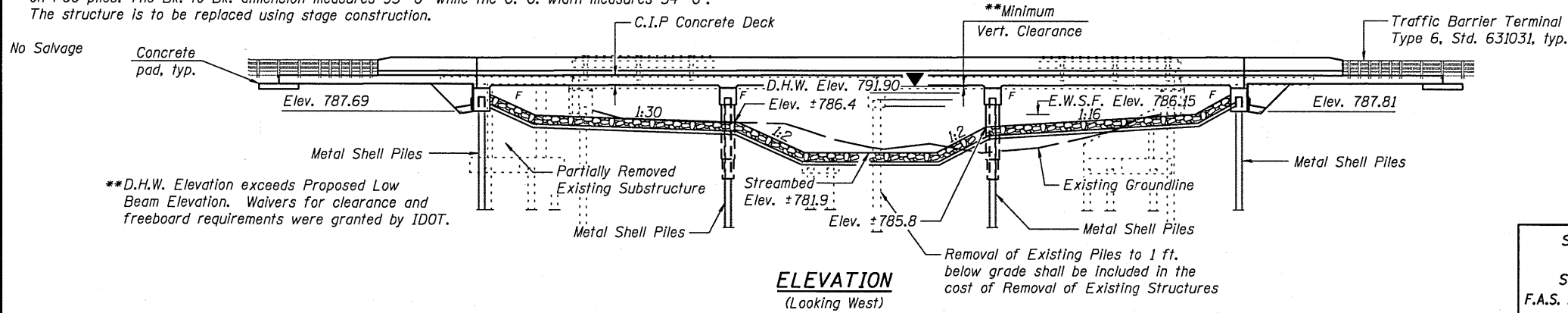


Bench Mark: 4813-1 Chiseled square on top of the Northwest wingwall of S.N. 057-0201. Station 152+78.56 Lt. 17.57' Elevation = 792.84

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Existing Structure: S.N. 057-0201 was built in 1928 as S.B.I. Rt. 165 Section 124B. In 1986 the bridge was replaced with a 2 span, 21" PPC deck beam superstructure added under F.A.S. Rt. 2484 Section 124BR. The substructure consists of open stub abutments and a center pier founded on PCC piles. The Bk. to Bk. dimension measures 93'-0" while the O.-O. width measures 34'-0". The structure is to be replaced using stage construction.



STATION 152+31.00  
BUILT 20\_\_ BY  
STATE OF ILLINOIS  
F.A.S. RT. 2484 SEC. 124BR-1  
LOADING HL93  
STR. NO. 057-0248

**NAME PLATE**  
See Std. 515001

**LOADING HL-93**  
Allow 50#/sq. ft. for future wearing surface.

**DESIGN SPECIFICATIONS**  
2007 AASHTO LRFD Bridge Design Specifications  
with 2008 and 2009 Interims

**DESIGN STRESSES**  
**FIELD UNITS**

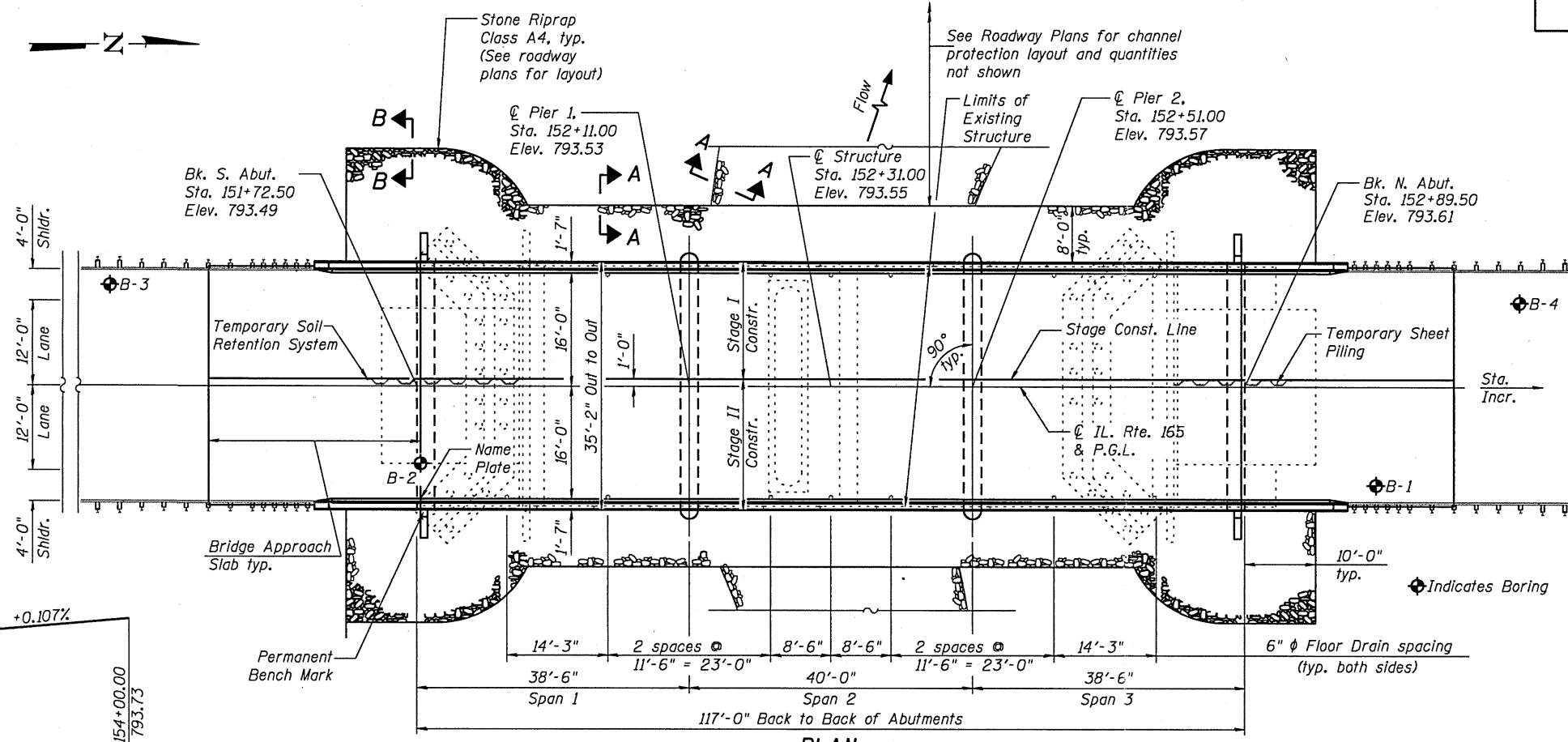
$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. ( $S_{D1}$ ) = 0.12g  
Design Spectral Acceleration at 0.2 sec. ( $S_{D0.2}$ ) = 0.21g  
Soil Site Class = D

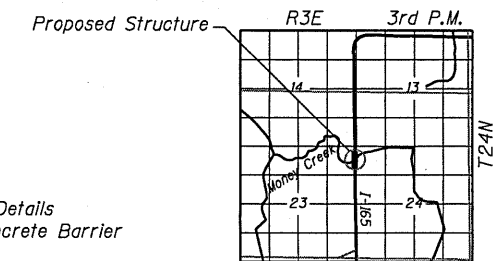
**APPROVED**  
For Structural Adequacy Only

*Ralph E. Anderson* (SE)  
Engineer of Bridges & Structures

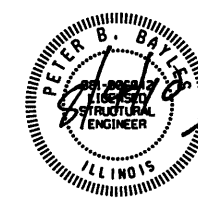


**INDEX OF SHEETS**

- 1 General Plan
- 2 General Data
- 3 Superstructure
- 4 Superstructure Details
- 5-6 Bridge Approach Slab Details
- 7 Modified Temporary Concrete Barrier
- 8 Abutments
- 9 Piers
- 10 Metal Shell Pile Details
- 11 Bar Splicer Assembly & Mech. Splicer Details
- 12-15 Soil Borings
- 16-17 Existing Bridge Plans



**GENERAL PLAN**  
**ILLINOIS ROUTE 165 OVER**  
**MONEY CREEK**  
**F.A.S. RTE. 2484 - SEC. 124BR-1**  
**MCLEAN COUNTY**  
**STATION 152+31.00**  
**STRUCTURE NO. 057-0248**



*Peter B. Bayles*  
Peter B. Bayles, P.E., S.E.  
Structural Engineer License No. 081-006042  
Expiration Date: 11/30/2010

**PROFILE GRADE**

(along centerline of roadway)

Note: The profile grade shows the final elevations after grinding. Up to 1/4" will be ground off the bridge slab and approach pavement.

DESIGNED	PBB/SAL
CHECKED	RKM/MCB
DRAWN	MLO
CHECKED	PBB

**EXAMINED**  
ENGINEER OF BRIDGE DESIGN

**PASSED**  
ENGINEER OF BRIDGES AND STRUCTURES

**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation (ft.)	S. Abut.	Pier 1	Pier 2	N. Abut.
	788.0	768.0	768.0	788.0

**WATERWAY INFORMATION**

Flood	Freq. Yr.	Q	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	1684	527	553	791.0	0.4	0.4	791.4	791.4
Base	50	2687	535	631	791.9	0.9	0.7	792.8	792.6
Overtop.-Exist.	100	3129	535	631	792.2	1.1	0.9	793.3	793.1
Overtop.-Prop.	250	3550	-	631	792.5	-	1.0	-	793.5
Max. Calc.	500	4203	535	631	792.9	1.3	1.3	794.2	794.2

SHEET NO. 1	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2484	124BR-1	MCLEAN	55	25
17 SHEETS	CONTRACT NO. 70612				
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					