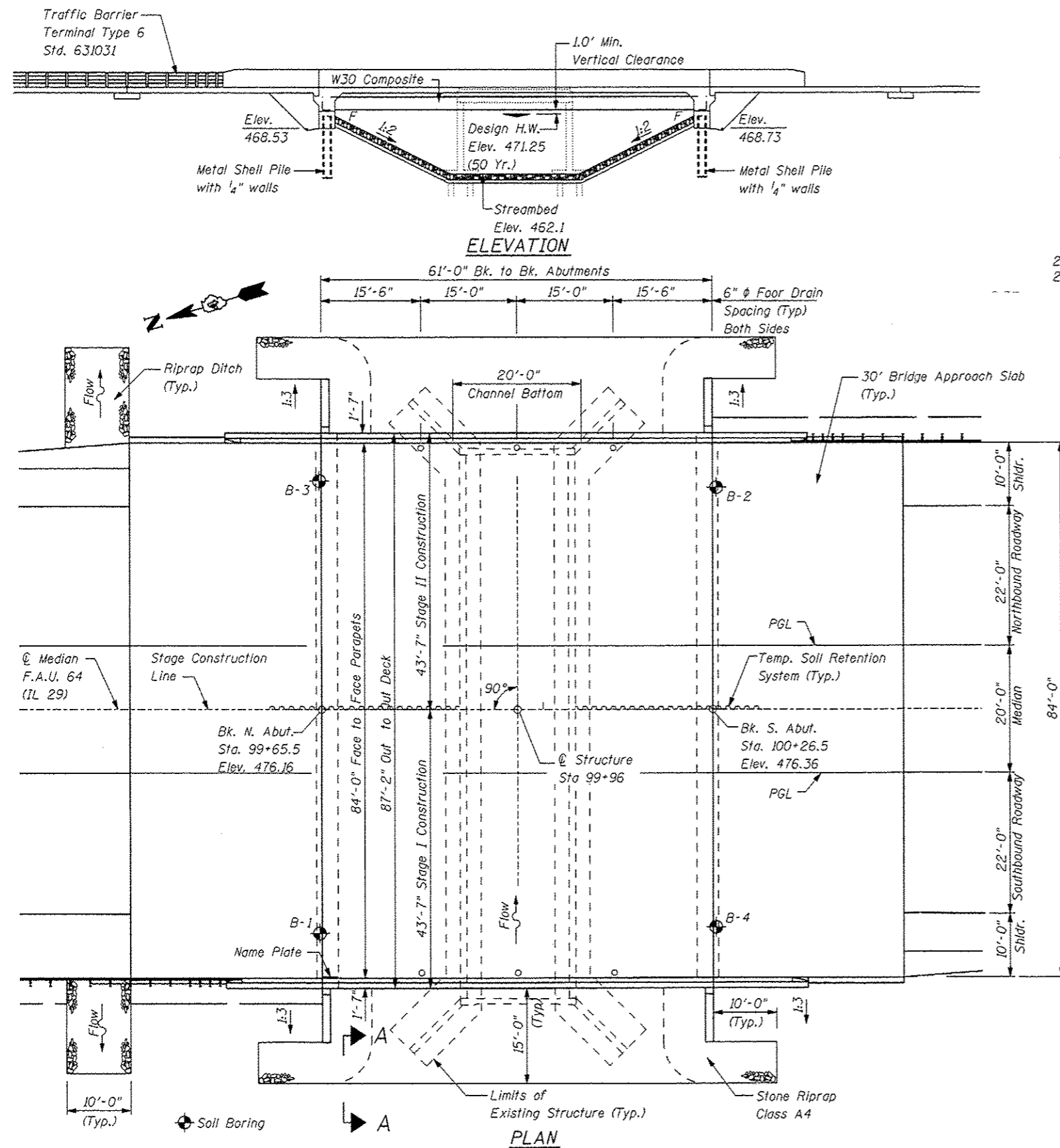


BENCHMARK: chiseled "□" on N.E. Wingwall of SN 072-0072 Elev=476.06

EXISTING STRUCTURE: S.N. 072-0072 to be removed. Built in 1953 as SBI 29, Section 10-B2, at Station 99+96. Single span, Reinforced Concrete Slab. 18'-0" back to back of abutments, 87'-4" deck width, Reinforced Concrete Closed Abutments on Timber Piles. Bridge to be removed. No salvage. One lane of traffic to be maintained in each direction utilizing Crossovers and Stage Construction.



INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 Stage Construction Details
- 4 Temporary Concrete Barrier for Stage Construction
- 5-6 Top of Slab Elevations
- 7 Top of North Approach Slab Elevations
- 8 Top of South Approach Slab Elevations
- 9 Superstructure
- 10 Superstructure Details
- 11 Integral Abutment Diaphragm Details
- 12-13 Bridge Approach Slab Details
- 14 Framing Plan
- 15 Bearing and Steel Details
- 16 North Abutment Details
- 17 South Abutment Details
- 18 Bar Splicer Assembly and Mechanical Splicer Details
- 19 Metal Shell Pile Details
- 20-23 Soil Boring Logs
- 24-27 Existing Structure

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi Reinforcement
 $f_y = 50,000$ psi (M270 Grade 50W)

LOADING HL-93

Allow 50 #/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2007 AASHTO LFRD Bridge Design Specifications with 2008 and 2009 Interims

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.159 g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.266 g
 Soil Site Class = E

STATION 99+96.00
 BUILT 20 BY
 STATE OF ILLINOIS
 F.A. RTE. 64 - SEC. (10B)BR
 LOADING HL-93
 STR. NO. 072-0226

NAME PLATE
 See Std. 515001

WATERWAY INFORMATION

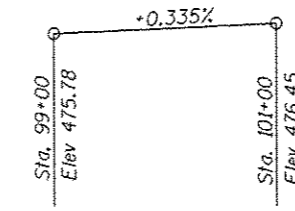
Drainage Area = 1.22 sq mi Low Grade Elev. 475.20 @ Sta. 99+00

Flood	Freq. Yr.	O. C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Design	10	655	101	197	469.95	0.90	0.00	470.85	469.95
Base	50	1082	122	257	471.25	1.99	0.00	473.24	471.25
Overlapping	100	1283	134	291	471.95	2.50	0.00	474.45	471.95
Max. Calc.	500	1777	145	301	472.66	2.90	0.70	475.56	473.36

10 Year Velocity through Ex Bridge = 5.8 fps
 10 Year Velocity through Pr Bridge = 3.3 fps

DESIGN SCOUR ELEVATION TABLE

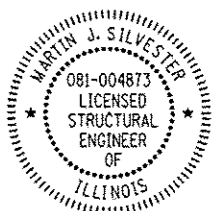
Design Scour Elevation (ft.)	N. Abut.	S. Abut.
	468.53	468.73



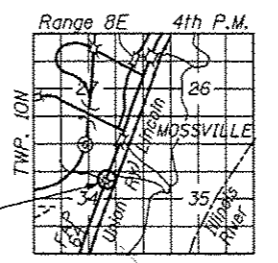
PROFILE GRADE
 (along Profile Grade Lines)

APPROVED
 For Structural Adequacy Only
Martin J. Silvester
 Engineer of Bridges & Structures

03-01-2013
 MARTIN J. SILVESTER
 STRUCTURAL ENGINEER
 LICENSE EXP. DATE 11-30-14



Note:
 See sheet 2 of 27 for Section A-A.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 29 OVER BOYDS HOLLOW
F.A.U. RTE. 64 - SEC. (10B)BR
PEORIA COUNTY
STATION 99+96.00
STRUCTURE NO. 072-0226

FILE NAME ...0720226-68481-001-GPE.dgn	USER NAME .USER.	DESIGNED - AB	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION STRUCTURE NO. 072-0226	F.A.U. RTE. 64	SECTION (10B) BR	COUNTY PEORIA	TOTAL SHEETS 77	SHEET NO. 29
PLOT SCALE SCALE	DESIGNED - MJS	REVISOR -	CONTRACT NO. 68481							
DRAWN - RMH	REVISOR -	CONTRACT NO. 68481								
CHECKED - LP	REVISOR -	CONTRACT NO. 68481								
PLOT DATE 3/1/2013 12:03:52 PM	CHECKED -	REVISOR -	CONTRACT NO. 68481	SHEET NO. 1 OF 27 SHEETS		ILLINOIS FED. AID PROJECT				

THE UPCHURCH GROUP, INC.