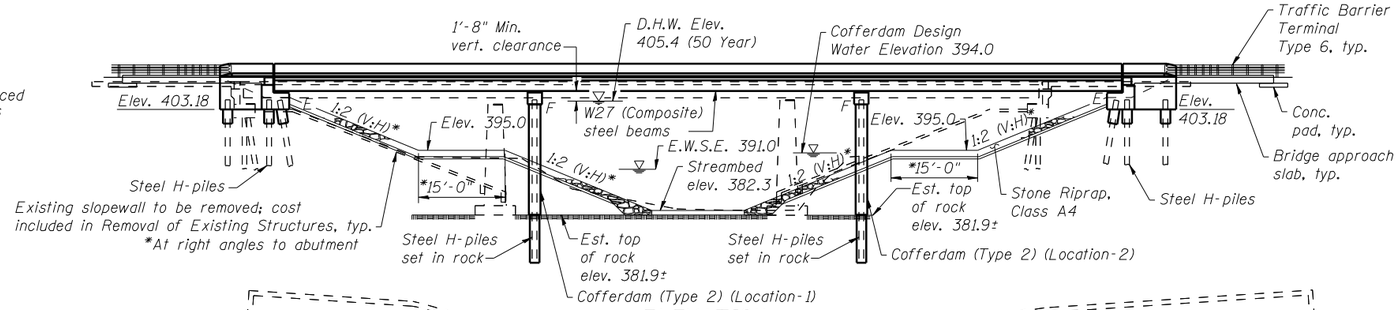
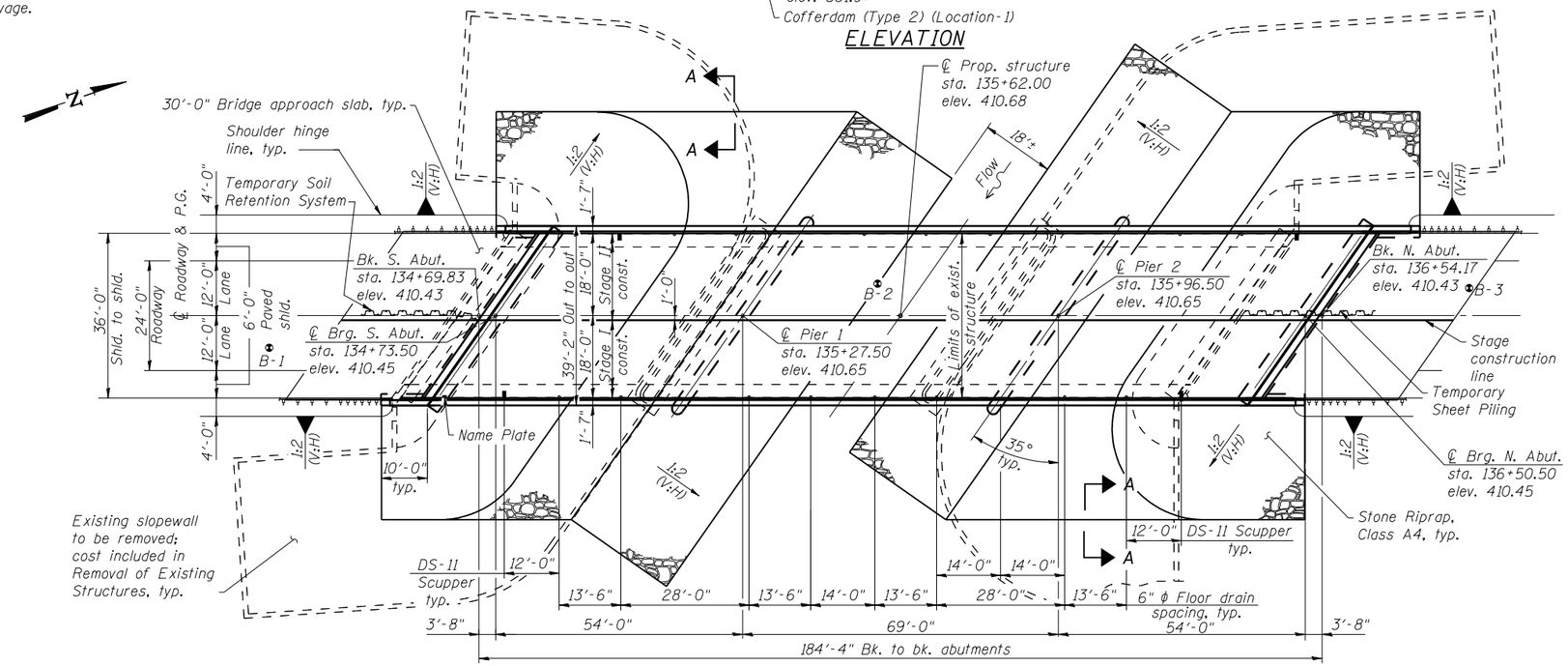
BENCHMARK: BM 313 -Chiseled square on southwest corner of SN 093-0003, elev. 410.12 (NAVD 88)

EXISTING STRUCTURE:
SN 093-0003 was originally built as SBI 1, Section 12-B-2, in 1956. It is a three span continuous reinforced conc. slab deck on rolled steel beams supported by open abutments on steel piles and solid shaft piers on spread footings founded on rock. The deck width is 35'-8" and the length is 172'-0" back to back of abutments. The structure was constructed with a 35° lt. fwd. skew. Traffic shall be maintained utilizing stage construction

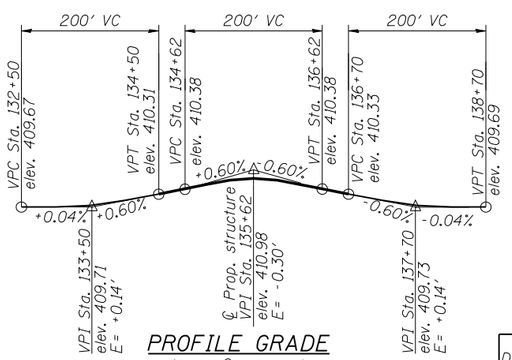
No salvage.



ELEVATION



PLAN



PROFILE GRADE
(Along ℄ roadway)

Design Scour Elevations (ft.)			
S. Abut.	Pier 1	Pier 2	N. Abut.
403.2	381.5	381.5	403.2

WATERWAY INFORMATION

Drainage Area = 34.78 Sq. Mi. Exist. Low Grade Elev. = 408.28 Ft. @ Sta. 124+52.9 Prop. Low Grade Elev. = 408.28 Ft. @ Sta. 124+52.9

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.
	10	3420	1259	1333	403.1	0.2	0.2	403.3	403.3
Design	50	5370	1536	1631	405.4	0.3	0.3	405.7	405.7
Base	100	6230	1597	1764	406.4	0.4	0.3	406.8	406.7
Overtop	200	7140	1597	1770	407.6	0.6	0.5	408.2	408.1

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

LOADING HL-93

Allow 50 psf for future wearing surface.

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinf.)
fy = 50,000 psi (M270 Grade 50)

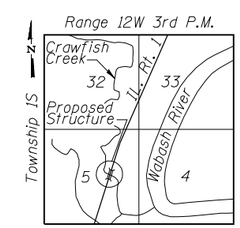
SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec (S_{D1}) = 0.250g
Design Spectral Acceleration at 0.2 sec (S_{DS}) = 0.586g
Soil Site Class = D

STATION 135+62.00
BUILT 201_ BY
STATE OF ILLINOIS
F.A.P. RT. 332 SEC. (12,B2)B-1
LOADING HL-93
STR. NO. 093-0025

NAME PLATE

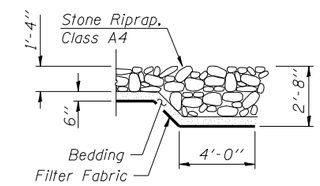
(See Hwy. Std. 515001)



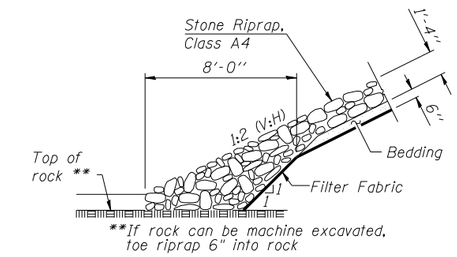
LOCATION SKETCH

STRUCTURE INDEX OF SHEETS

General Plan & Elevation	Sheet No. 1 of 31
General Data	Sheet No. 2 of 31
Stage Construction Details	Sheet No. 3 of 31
Temporary Concrete Barrier for Stage Construction	Sheet No. 4 of 31
Top of Slab Elevations	Sheet Nos. 5 & 6 of 31
Top of South Approach Slab Elevations	Sheet No. 7 of 31
Top of North Approach Slab Elevations	Sheet No. 8 of 31
Superstructure	Sheet No. 9 of 31
Superstructure Details	Sheet Nos. 10 & 11 of 31
Bridge Approach Slab Details	Sheet Nos. 12 & 13 of 31
Preformed Joint Strip Seal	Sheet No. 14 of 31
Drainage Scupper, DS-11	Sheet No. 15 of 31
Steel Framing Plan	Sheet No. 16 of 31
Steel Framing Details	Sheet No. 17 of 31
Bearing Details	Sheet No. 18 of 31
South Abutment	Sheet No. 19 of 31
North Abutment	Sheet No. 20 of 31
Abutment Details	Sheet No. 21 of 31
Pier 1	Sheet No. 22 of 31
Pier 2	Sheet No. 23 of 31
HP Pile Details	Sheet No. 24 of 31
Bar Splicer Assembly and Mechanical Splicer Details	Sheet No. 25 of 31
Cantilever Forming Brackets for Superstructures with W27 Beams and Smaller	Sheet No. 26 of 31
Boring Logs	Sheet Nos. 27 thru 31 of 31



SECTION A-A



STONE RIPRAP ANCHOR DETAIL

STATE OF ILLINOIS ERIC L. HENKEL No. 6159 LICENSED STRUCTURAL ENGINEER

EXPIRES 11-30-14

SIGNATURE

01-03-14
DATE

GENERAL PLAN & ELEVATION
IL 1 OVER CRAWFISH CREEK
FAP ROUTE 332 - SECTION (12,B2)B-1
WABASH COUNTY
STATION 135+62.00
STRUCTURE NO. 093-0025

ESCA CONSULTANTS, INC. CIVIL & STRUCTURAL ENGINEERS

USER NAME = has	DESIGNED - ELH 05/11	REVISED -	
ESCA PROJECT NO. 933.14	CHECKED - RDP 04/13	REVISED -	
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PLOT DATE = 6/10/2014 8:46:56 AM	CHECKED - ELH 01/14	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	21

CONTRACT NO. 74219

ILLINOIS FED. AID PROJECT

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