

Existing Structure: Single span poured concrete deck bridge on steel stringers founded on closed concrete abutments. ±20'-0" Out.-Out. deck, ±20'-6" Bk.-Bk. abutments. Steel channel rail posts with no railing. 0° skew. Existing Structure No. 042-3049.

BM #1 - 60d Nail & Washer in Power Pole  
16' Rt. Sta. 4+22.5 El. 100.00 (Assumed)

T.R. NO.	SECTION	COUNTY	TOTAL SHEET NO.
50	05-03104-00-BR	JERSEY	12 4
CONTRACT NO. 97334			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

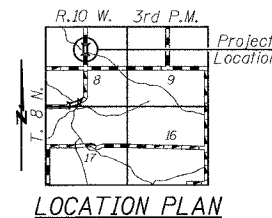
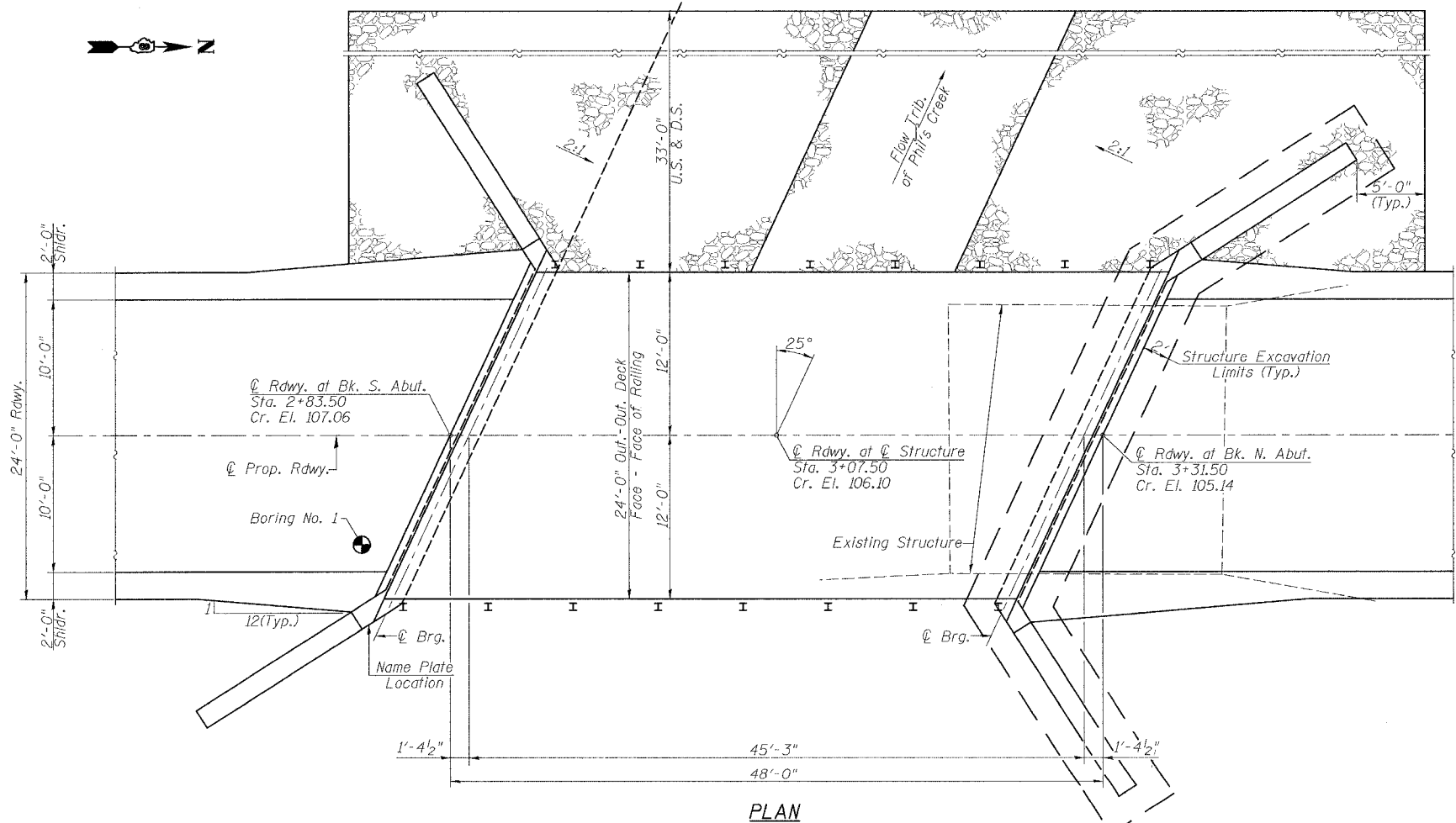
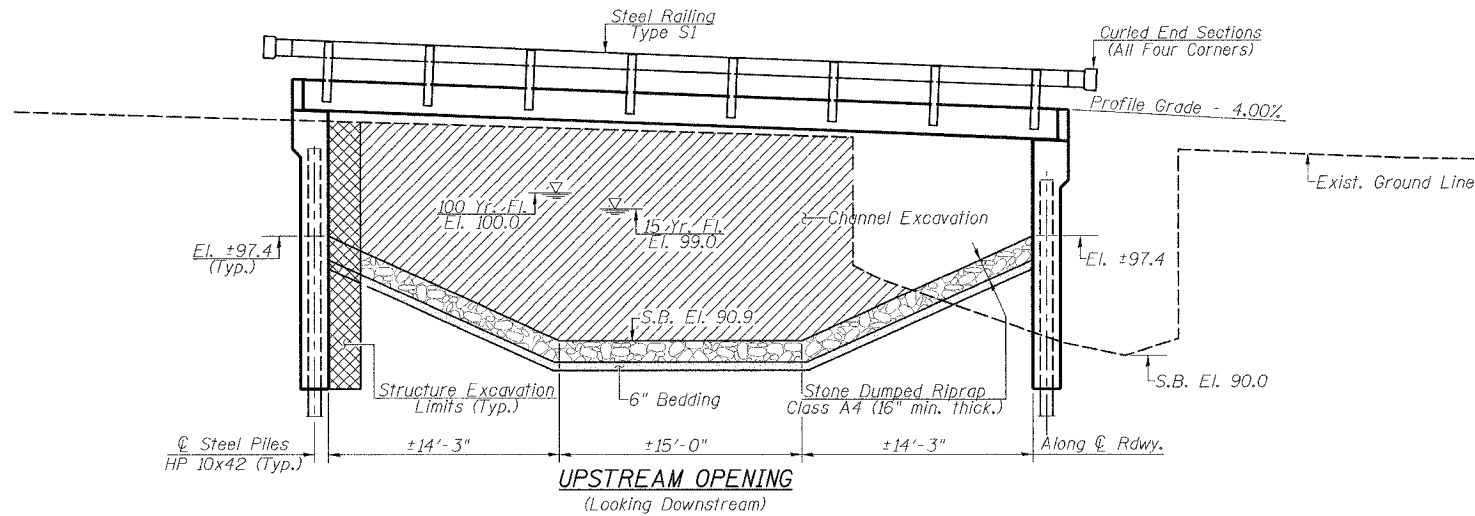
**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Dumped Riprap, Class A4	Ton			421
Filter Fabric	Sq. Yd.			632
Structure Excavation	Cu. Yd.			262
Concrete Structures	Cu. Yd.		104.4	104.4
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	1117		1117
Reinforcement Bars	Pound		15260	15260
Steel Railing, Type S-1	Foot	96		96
Furnishing Steel Piles HP 10x42	Foot		696	696
Driving Piles	Foot		696	696
Test Pile, Steel HP 10x42	Each		2	2
Underwater Structure Excavation Protection - Location 1	Each		1	1
Underwater Structure Excavation Protection - Location 2	Each		1	1

**WATERWAY INFORMATION**

Drainage Area = 1.91Sq. Mi. Pr. Low Grade Elev. 101.82 Sta. 5+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural H.W.E.	Head - ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	15	908	162	284	99.7	1.1	0.0	100.8	99.7
Base	100	1507	241	359	100.9	2.5	0.5	103.4	101.4
Exist. Overtop.	30	1122							
Prop. Overtop.	40	1208							
Max. Calc.	500	2012	255	430	101.6	2.3	0.8	103.9	102.4



I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "A.A.S.H.T.O. Standard Specifications For Highway Bridges".

*Allen Henderson* 2/19/08  
Expiration Date 11/30/2008

FILE NAME: 05-03104-00-BR	USER NAME: AUSLER	DESIGNED: [Blank]	REVISED: [Blank]		<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>GENERAL PLAN &amp; ELEVATION</b> SCALE: 3/16" = 1' SHEET NO. 4 OF 12 SHEETS STA. 1+40.00 TO STA. 5+10.00	T.R. NO.	SECTION	COUNTY	TOTAL SHEET NO.
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