CONTRACT NO. 95495

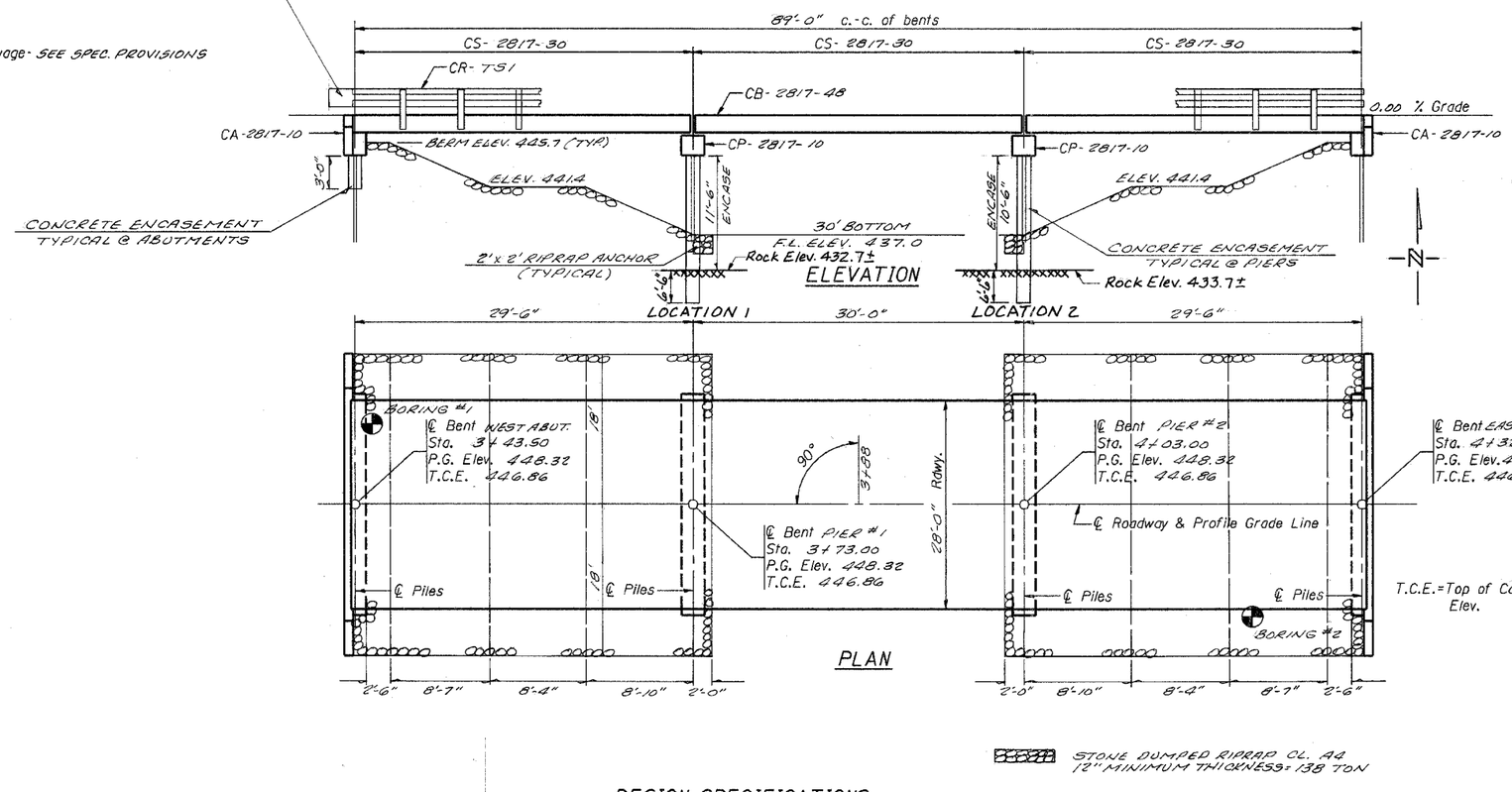
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	CRAWFORD	10	3
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

* 05-02115-00-BR

B.M. - SEE PLAN-PROFILE

Existing Structure - SEE PLAN-PROF.

Salvage - SEE SPEC. PROVISIONS



STONE DUMPED RIPRAP CL. A2 12" MINIMUM THICKNESS= 138 TON

GENERAL NOTES

1. The Contractor shall drive 2 test piles, as specified, in a permanent location as directed by the Engineer before ordering the remaining piles.
2. See Special Provisions for boring logs.
3. ~~A Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.~~

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub. Piers	Sub. Abuts.	Total
Removal of Existing Structures	Each				1
~~Bituminous Concrete Surface Course, Superpave~~	~~Ton~~				
~~Waterproofing Membrane System~~	~~Sq. Yd.~~				
Concrete Structures	Cu. Yd.		17.2	19.0	36.2
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	2520			2520
~~Steel Bridge Rail, Type SM~~	~~Foot~~				
Steel Railing, Type S-1	Foot	180			180
Reinforcement Bars	Pound		1760	2500	4260
Furnishing Steel Piles HP10X42	Foot		185	132	317
Driving PILES	Foot		—	132	132
Test Piles Steel HP10X42	Each		—	2	2
Name Plates	Each			1	1
Concrete Encasement	Cu. Yd.		20.0	2.6	22.6
~~Portland Cement Mortar Fairing Course~~	~~Foot~~				
STONE DUMPED RIPRAP CL A2	TON				138
SETTING PILES IN ROCK	EACH		10		10
UNDERWATER STRUC. EXCAV. PROT.- LOC. 1	EACH		1		1
UNDERWATER STRUC. EXCAV. PROT.- LOC. 2	EACH		1		1

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications - 17th ed.

LOADING HS20-44

Allow 25#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.079
Site Coefficient (S) = 1.0

PILE DATA (2-PIERS)

Type HP 10 x 42
Capacity ~~Tons~~ Set In Rock
Estimated Length 19 Feet Pier 1, 18 Feet Pier 2
Number Required 10 ~~(Includes 1 Test Pile located in Bent #1)~~

PILE DATA (2-ABUTS.)

Type HP 10 x 42
~~CAPACITY Refusal Tons~~
Estimated Length 18 Feet West Abut, 15 Feet East Abut.
Number Required 10 (Includes 1 Test Pile located in ~~Bent #1~~) Each Abutment)

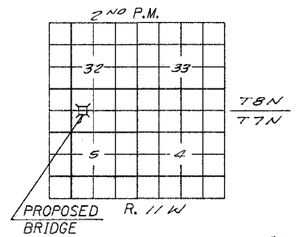
NOMINAL REQUIRED BEARING 335 KIPS
ALLOWABLE RESISTANCE AVAILABLE 112 KIPS

Construction Permits:
The requirements of the IDNR- Division of Water Resources have been fulfilled in accordance with Statewide Permit No. 2.

STATION 3+88
HUTSON CREEK
SEC. 05-02115-00-BR BUILT 20
PROJECT BR05-033(46)
CRAWFORD COUNTY
LOADING HS20
STR. NO. 017-3281

LETTERING FOR NAME PLATE

Locate Name Plate at SOUTHWEST Corner of Bridge (See Std. CN)



LOCATION SKETCH

"I certify these Standard Bridge Plans for foundation treatment only."

Fred J. Stone Jr. (4-12-06)

ILLINOIS STRUCTURAL NO. 2934

LICENSED STRUCTURAL ENGINEER * FRED J. STONE, JR. 81-2934 SPRINGFIELD * STATE OF ILLINOIS

Expires 11-30-06

INDEX OF SHEETS

WATERWAY INFORMATION

Drainage Area = 19.22 S.M. Low Grade Elev. = 444.9 @ Sta. 8+00

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.
Design	15	2268	3@ 360 / 120 350	8@ 250 / 100 201	445.7	0.5	0.5	446.2	446.2
Base	100	3560	3@ 360 / 120 601	8@ 325 / 100 381	446.2	0.8	0.9	447.0	447.1
Overtopping									
Max. Calc.	500								

GENERAL PLAN & ELEVATION

TR ROUTE 71

OVER HUTSON CREEK

SECTION 05-02115-00-BR

CRAWFORD COUNTY

STATION 3+88

GP-3 (04-04-05)