CONTRACT NO. 95424

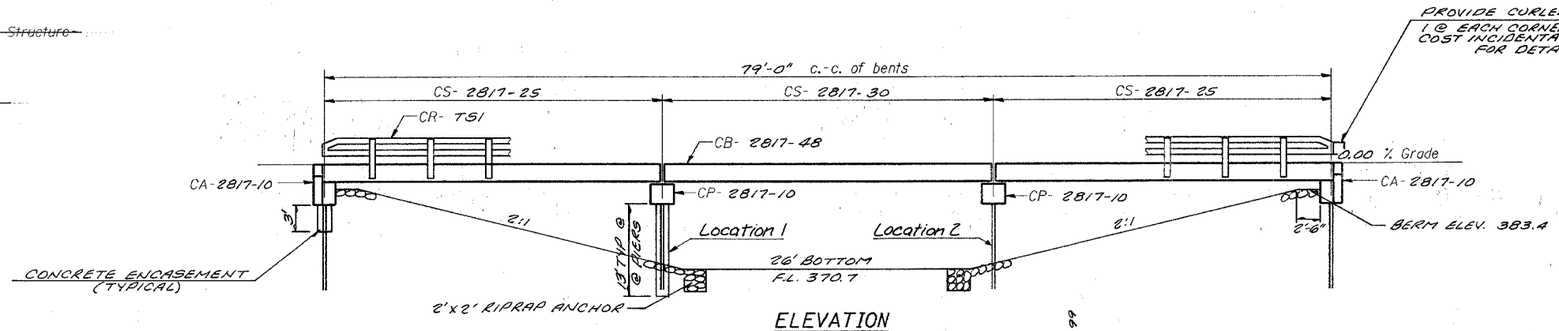
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	WAYNE	11	4
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

* 02-00110-00-BR

~~B.M.~~

~~Existing Structure~~

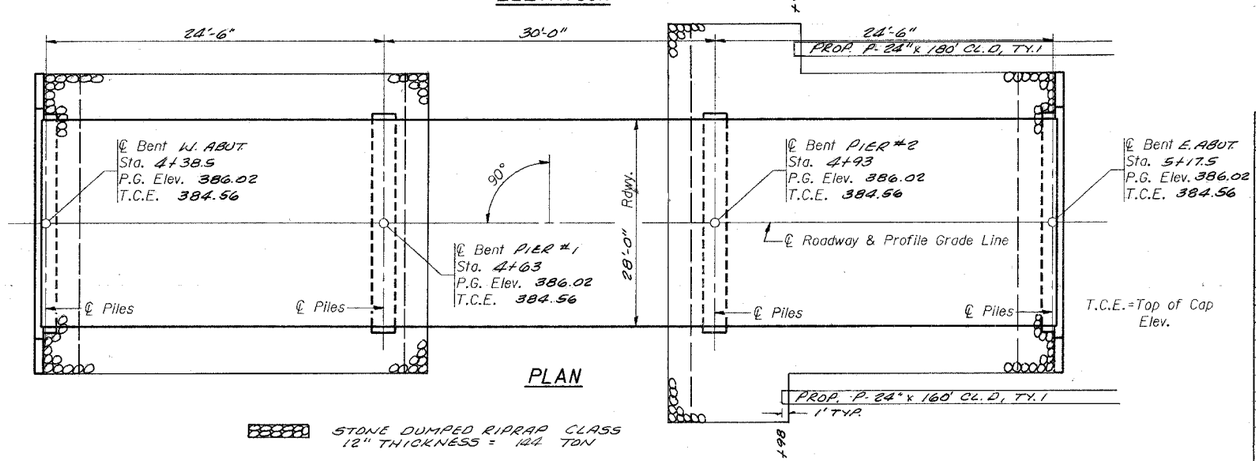
~~Salvage~~



PROVIDE CURLED END SECTION 1 @ EACH CORNER OF BRIDGE= 4 EACH COST INCIDENTAL, SEE SHEET 10 FOR DETAILS

0.00 % Grade

ELEVATION



PLAN

STONE DUMPED RIPRAP CLASS 12" THICKNESS = 122 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 Calcium Nitrite 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, Class 1~~	~~Ton~~				
~~Waterproofing Membrane System~~	~~Sq. Yd.~~				
Concrete Structures	Cu. Yd.		14.2	19.0	33.2
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	2240			2240
~~Steel Bridge Rail, Type SM~~	Foot				
Steel Railing, Type S-1	Foot	160			160
Reinforcement Bars	Pound		1300	1900	3200
Furnishing STEEL PILES HP 10x42	Foot		540	540	1080
Driving STEEL PILES	Foot		540	540	1080
Test Piles STEEL HP 10x42	Each		1	1	2
Name Plates	Each			1	1
~~Class SI~~ CONCRETE ENCASEMENT	Cu. Yd.		11.2	2.6	13.8
STONE DUMPED RIPRAP CLASS A4	TON			122	122
Underwater Structure Excavation Protection Location 1	Each		1		1
Underwater Structure Excavation Protection Location 2	Each		1		1

SEISMIC DATA

Seismic Performance Category (S.P.C.) = B
Bedrock Acceleration Coefficient A = 0.094
Site Coefficient S = 1

PILE DATA (2-PIERS)

Type STEEL HP 10 x 42
Capacity REFUSAL Tons
Estimated Length 60 Feet
Number Required 10 (Includes 1 Test Pile located in Bent #3) PIER #2

PILE DATA (2-ABUTS.)

Type STEEL HP 10 x 42
Capacity REFUSAL Tons
Estimated Length 60 Feet
Number Required 10 (Includes 1 Test Pile located in Bent #1) W. ABUT.

DESIGN SPECIFICATIONS

1996 AASHTO.
HS20-44 Loading. Load Factor Design.

NOTE:
The Article or Section numbers referencing the Standard Specifications for Road and Bridge Construction as shown on the standard bridge plan sheets included with the contract plans should be interpreted as referring to the current edition of the Standard Specification (Adopted January 1, 1997) as shown in the "Article/Section No. Reference Table".

ARTICLE/SECTION NO. REFERENCE TABLE

Previous No.	Current No.
504.06	504.06
505.04	505.04
706.05	1006.05
706.32	1006.32
760.07	1060.07

"I certify these Standard Bridge Plans for seismic adequacy and foundation treatment".

Fred Stone (1-27-05)

ILLINOIS STRUCTURAL No. 2934 (Expires 11/30/06)

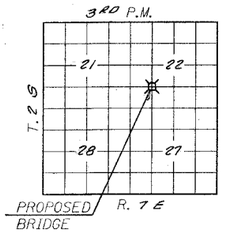
LICENSED STRUCTURAL ENGINEER
FRED J. STONE, JR.
81-2934
SPRINGFIELD
STATE OF ILLINOIS

STATION 4+78
BIG MOUND DRAINAGE DITCH
SEC. 02-00110-00-BR BUILT

WAYNE COUNTY
LOADING HS20
STR. NO. 096-3439

LETTERING FOR NAME PLATE

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



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 14.0 SQ MI. Low Grade Elev. = 379.0 @ Sta. 0+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	2028	80 @ 383 120 @ 376	548 188	383.4	N.A.	0.2	383.4	384.6
Base	100	3211	80 @ 383 120 @ 376	616 494	384.4	N.A.	0.4	384.4	384.8
Overtopping									
Max. Calc.	500								

INDEX OF SHEETS

1. General Plan & Elevation
2. Standard CS - 28/7 - 25
3. Standard CS - 28/7 - 30
4. Standard CB - 28/7 - 48
5. Standard CA - 28/7 - 10
6. Standard CP - 28/7 - 10
7. Standard CR - TS1
8. Standard CX - 1
9. Standard

GENERAL PLAN & ELEVATION
C.H. ROUTE 8
OVER BIG MOUND DRAINAGE DITCH
SECTION 02-00110-00-BR
WAYNE COUNTY
STATION 4+78

GP-3 (11-1-95)

Tue Feb 4 15:57:26 1997 C:\PLOT\queue\D7C60401.dcf ray /usr/project/bridge/engpgm.prf