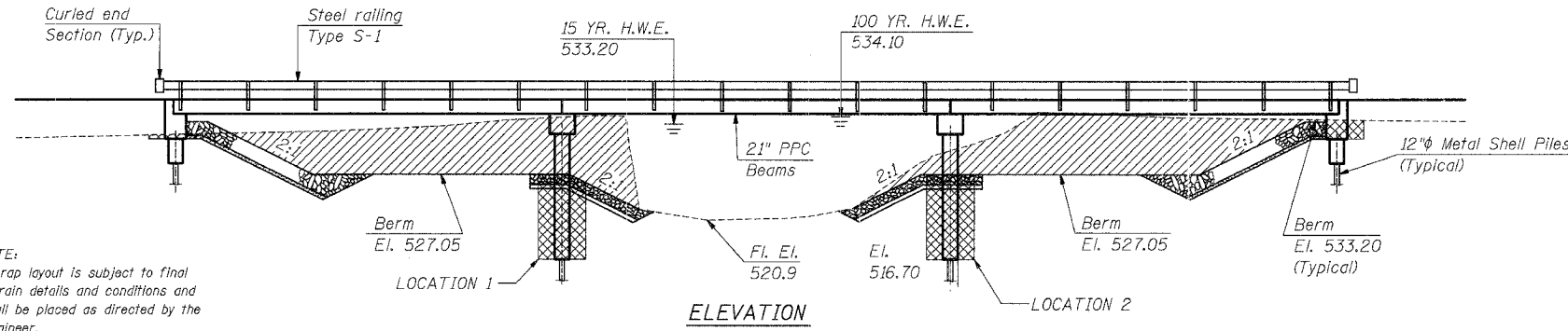


91320

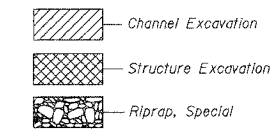
B.M. - Chiseled "X" on Top of East Girder on North End of Bridge. Elev. 534.78

EXISTING STRUCTURE: SN 087-3330, One Span Bridge 51' Back to Back of Abutments. Deck Width is 13'-2". Superstructure is made up of Timber Deck on 2-27" Deep Steel Thru-Girders and 7-6" Deep Steel Stringers. Steel Pipe Handrail is present at both sides. Abutments are made up of Closed Timber Walls with Timber Piling. Wingwalls are Timber. Salvageable Material shall become the property of Dry Point Township and or Shelby County.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 128	99-05117-00-BR	SHELBY	15	10
FED. ROAD DIST. NO. 7		ILLINOIS PROJECT		SHEET 1 of 6

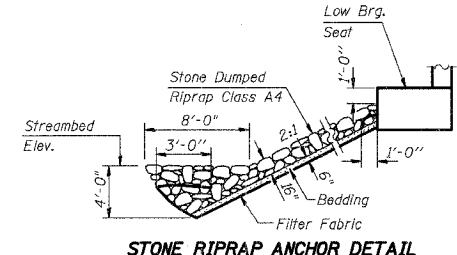


NOTE: Riprap layout is subject to final terrain details and conditions and shall be placed as directed by the Engineer.



GENERAL NOTES

See Proposal for Boring Data
The Contractor shall drive one steel test pile at each abutment and each pier as directed by the Engineer before ordering the remainder of the piles.
Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.



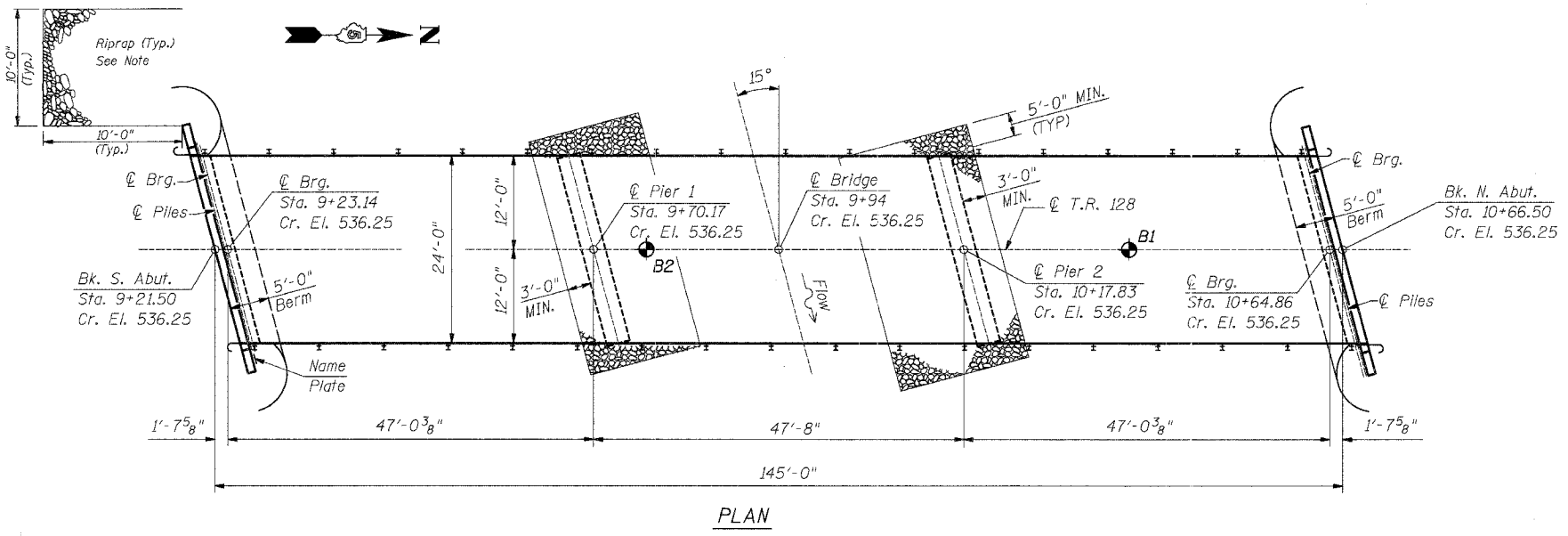
MITCHELL CREEK
BUILT 200_ BY
SHELBY COUNTY
SEC. 99-05117-00-BR
TR 128 STA. 9+94.00
STR. NO. 087-3520 LOADING HS 20

NAME PLATE
(See Std. 515001)

BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu. Yd.		154	154
Concrete Structures	Cu. Yd.		89.8	89.8
Reinforcement Bars	Pound		7600	7600
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	3426		3426
Steel Railing, Type S-1	Foot	289		289
Furnishing Metal Pile Shell, 12"	Foot		560	560
Driving & Fill Shells	Foot		560	560
Test Pile Metal Shells	Each		4	4
Concrete Encasement	Cu. Yd.		2.2	2.2
Name Plates	Each		1	1
Removal of Existing Structures	Each	1		1
Channel Excavation	Cu. Ft.		1010	1010
Stone Dumped Riprap, Class A4	Ton		354	354 *
Filter Fabric	Sq. Yd.		389	389 *
Underwater Structure Excavation Protection Location 1	Each		1	1
Underwater Structure Excavation Protection Location 2	Each		1	1

* Quantity at Bridge Only.
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 AASHTO Standard Specifications for Highway Bridges.



DESIGN STRESSES

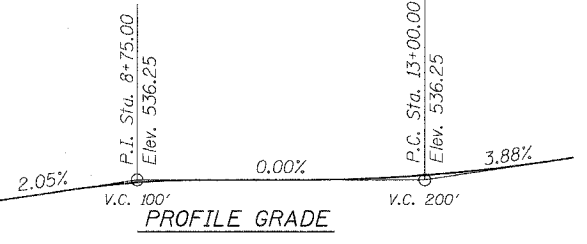
Precast Unit
f'c = 5,000 psi
f'ci = 4,000 psi
f's = 270,000 psi
f'sl = 189,000 psi

Cast-in-Place Unit
f'c = 3,500 psi
f's = 60,000 psi
n = 9

LOADING HS 20
DESIGN SPECIFICATION:
AASHTO 1996 Standard Specifications for Highway Bridges and Interim Specifications through 1998.
FUTURE WEARING SURFACE:

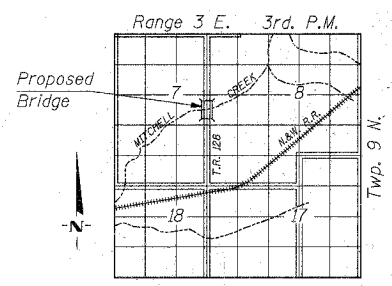
WATERWAY INFORMATION

Drainage Area	36.9	Sq.Mi.
Required Opening (15yr.)	893	Sq.Ft.
Provided Opening	893	Sq.Ft.
Present Opening	330	Sq.Ft.
15 yr. Discharge	3977	cfs
100 yr. Discharge	6270	cfs
Created Head (15yr.)	<.50	Ft.
Created Head (100yr.)	<1.0	Ft.



David Booher
David Booher, Illinois S.E. 081-004775
Expires 11-30-2006

2-18-05
Date



LOCATION MAP

GENERAL PLAN & ELEVATION
T.R. 128 OVER MITCHELL CREEK
SECTION 99-05117-00-BR
SHELBY COUNTY
S.N. 087-3520
STA. 9+94.00

ie consultants	
DESIGNED: G.B.M.	CHECKED: D.R.B.
DRAWN: J.P.H.	DATE: 10/20/04