

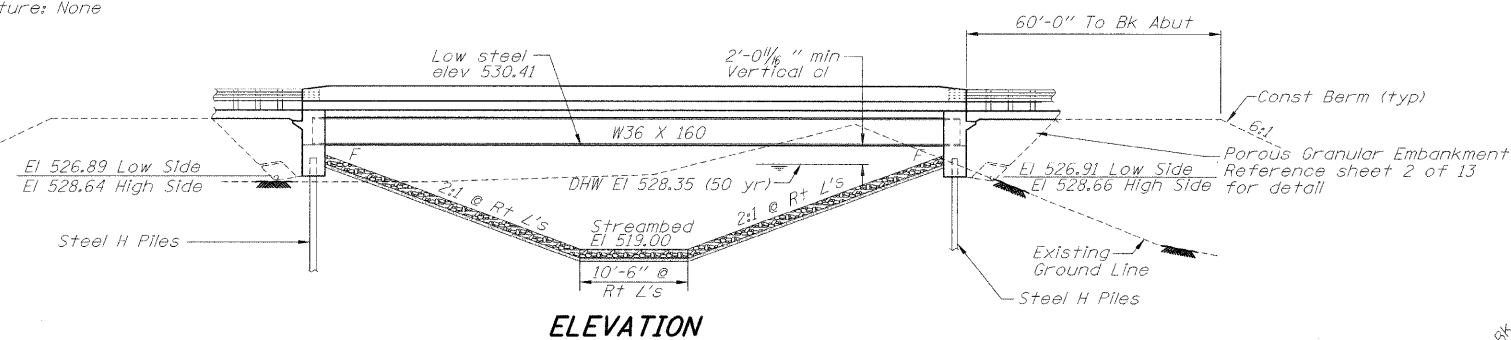
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-(16B, 16-1B)	MADISON	62	32
STA. 165+71.94				
ILLINOIS			US 67	

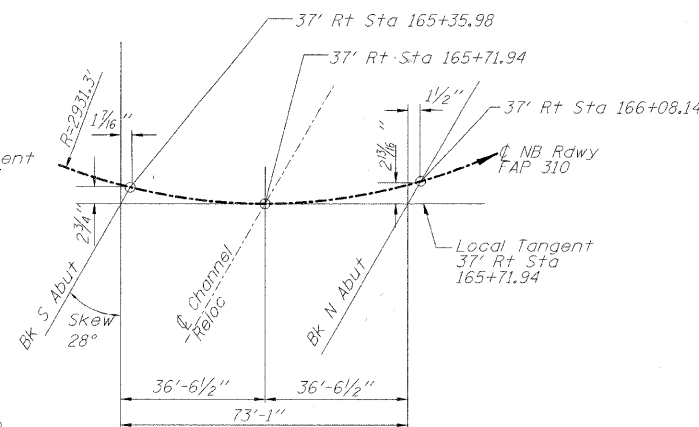
Sheet No. 1
13 Sheets

CONTRACT 76311

Bench Mark: #102 Cut Square on
Top of N.E. Wing Wall of
Structure 060-0251
El 532.92
Existing Structure: None



ELEVATION



OFFSET SKETCH

HORIZONTAL CURVE DATA
☉ SURVEY (☉ MEDIAN)
FAP 310 (US 67)

P.I. STA 168+25.32
Δ = 17°30'00" Lt
R = 2894.31'
D = 1°58'47"
T = 445.48'
L = 884.02'
E = 34.08'
S.E. = .052'/ft
P.C. STA. 163+79.84
P.T. STA. 172+63.86

STA 165+71.94
BUILT BY
STATE OF ILLINOIS
F.A. RT. 310 SEC. 60-16-1B
LOADING HS-20
STR. NO. 060-0329

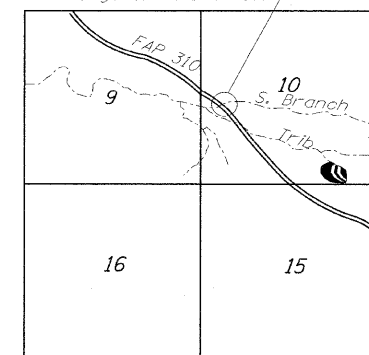
NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIALS

ITEM	UNIT	SUB.	SUPER.	TOTAL
Structure Excavation	CU YD	62.1		62.1
Floor Drains	EACH		6	6
Concrete Structures	CU YD	69.2		69.2
Protective Coat	SQ YD		577	577
Concrete Superstructure	CU YD		183.6	183.6
Furnishing and Erecting Structural Steel	L SUM		0.68	0.68
* Reinforcement Bars, Epoxy Coated	LB.	8,860	40,980	49,840
Furnishing Steel Piles HP 12X63	FOOT	681		681
Driving Piles	FOOT	681		681
Test Pile Steel HP 12X63	EACH	1		1
Name Plates	EACH		1	1
Stone Riprap, Class A4	SQ YD	777		777
Filter Fabric	SQ YD	777		777
Bridge Deck Grooving	SQ YD		498	498
Stud Shear Connectors	EACH		2616	2616
Bar Splicers	EACH		130	130
Porous Granular Embankment (Special)	CU YD	306		306
Pile Shoes	EACH	19		19
Pipe Underdrains for Structures 4"	FOOT			190

* See Special Provisions

Range 10 W. 3rd P.M. Prop Structure

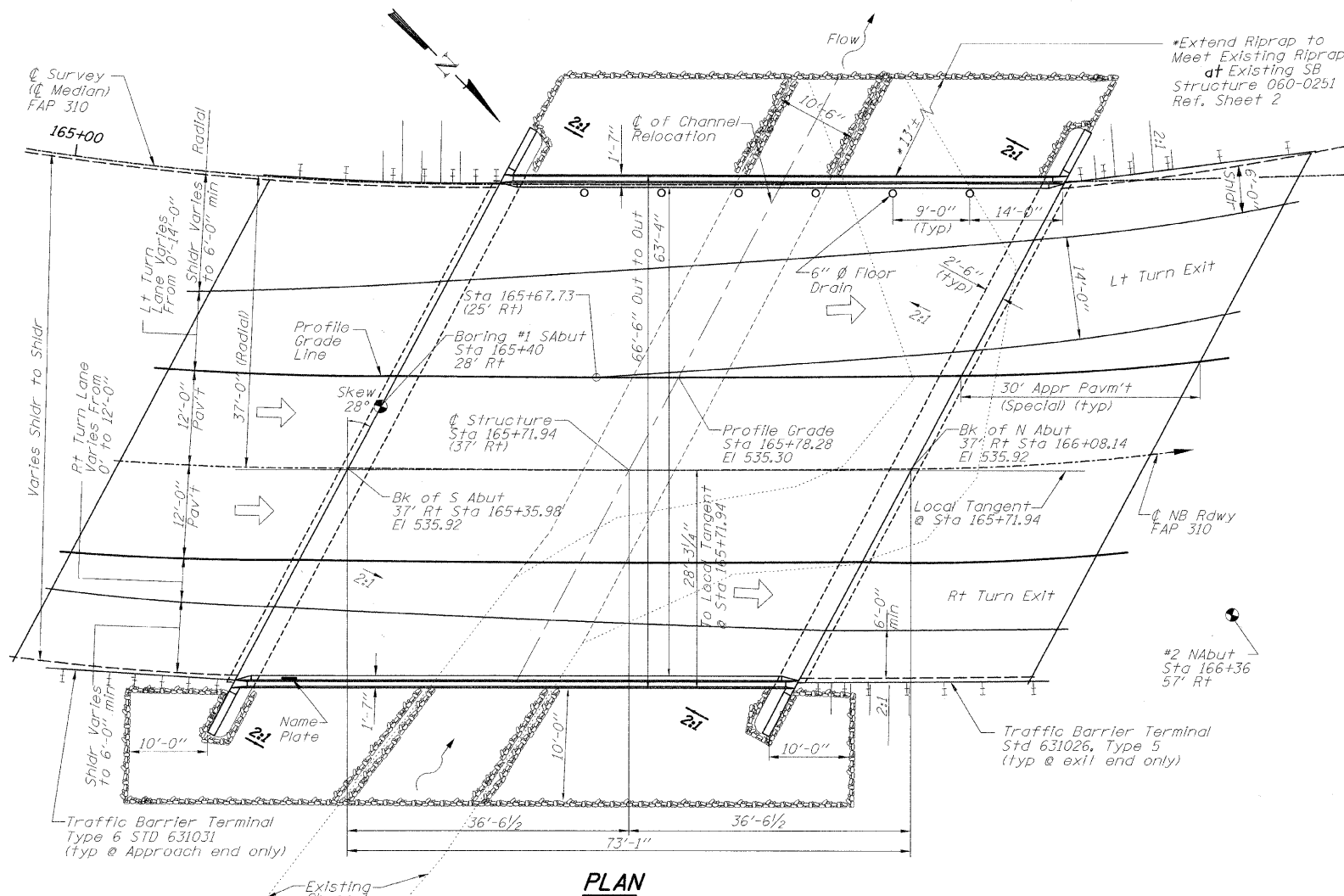


LOCATION SKETCH

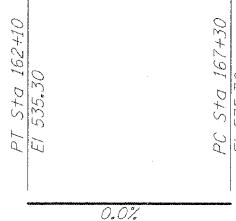


Randall P. Bernhardt
Licensed Structural Engineer
in Illinois No. 81-004862
License Expires 11/30/02

GENERAL PLAN & ELEVATION
FAP 310 (US 67) OVER
SOUTH BRANCH OF PIASA CREEK
SECTION 60-(16B, 16-1B)
MADISON COUNTY STA 165+71.94
SN 060-0329



PLAN



PROFILE GRADE FOR NB RDWY

(Applies @ Left Edge of Pav't)
(25')

WATERWAY INFORMATION

Drainage Area = 1.32 sq mi		Low Grade El 535.30 @ Sta 162+22.5					
Flood	Freq. Yr	0 cfs	Opening sq ft	Nat HWE	Head - ft	Headwater El	
			* Exlst Prop	* Exlst Prop	* Exlst Prop	* Exlst Prop	
Design	50	1381	NA	273.0	528.35	NA	0.49
Base	100	1614	NA	295.5	528.81	NA	0.69
Overtopping	NA	NA	NA	NA	NA	NA	NA
Max Calc	500	2182	NA	344.5	529.76	NA	1.44

* Downstream Bridge Constructed 1988, S.N. 060-0251

DESIGN SPECIFICATIONS

1996 AASHTO with 1997, 1998, and 1999 Interims

LOADING HS 20-44

Allow 50 psf for Future Wearing Surface.

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf)
 $f_y = 50,000$ psi (AASHTO M 270, Grade 50 - W Beams)
 $f_y = 36,000$ psi (AASHTO M 270, Grade 36, Dlap)

SEISMIC DA

Seismic Performance Category (SPC) = A
Acceleration Coefficient (A) = 0.075g
Site Coefficient (S) = 1.0

HR HURST-ROSCHKE ENGINEERS, INC.
CONSULTING ENGINEERS & ARCHITECTS
1400 E. TREMONT ST.
HILLSBORO, ILLINOIS 62049

DESIGNED: J.L.G. CHECKED: R.P.B.
DRAWN: J.L.G. CHECKED: R.P.B.

Rev. 2/14/01