

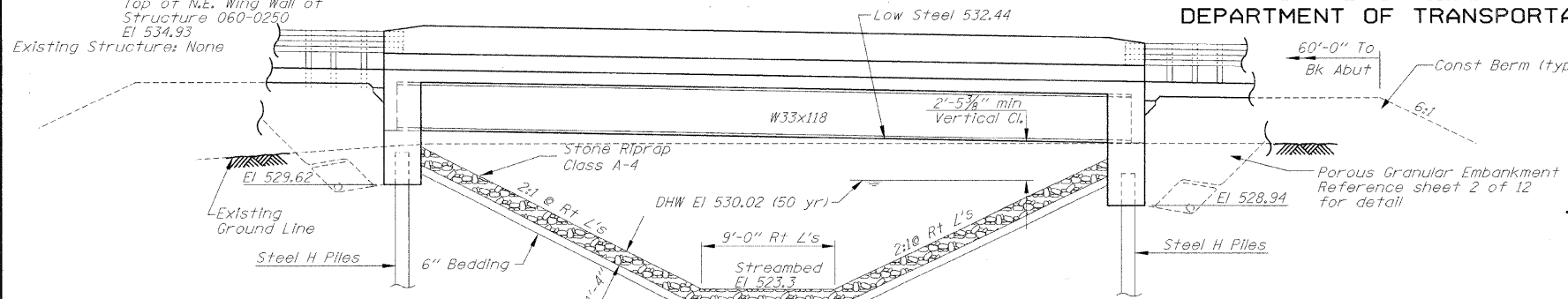
Bench Mark: #101 Cut Square on Top of N.E. Wing Wall of Structure 060-0250 El 534.93
Existing Structure: None

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-16B, 16-1B	MADISON	62	20
STA. 160+24.00				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

Sheet No. 1
12 Sheets

CONTRACT 76311



ELEVATION

**HORIZONTAL CURVE DATA
@ SURVEY (@ MEDIAN)
FAP 310 (US 67)**

P.I. STA. 160+96.28
Δ = 08°26'25" Lt
R = 3856.80'
D = 1°29'08"
T = 284.59'
L = 568.16'
E = 10.49'
S.E. = 0.043'/ft
S.A. STA. 156+23.36 to STA. 158+83.36
P.C. STA. 158+11.69
P.T. STA. 163+79.84

STA 160+24.00
BUILT BY
STATE OF ILLINOIS
F.A. RT. 310 SEC. 60-16B

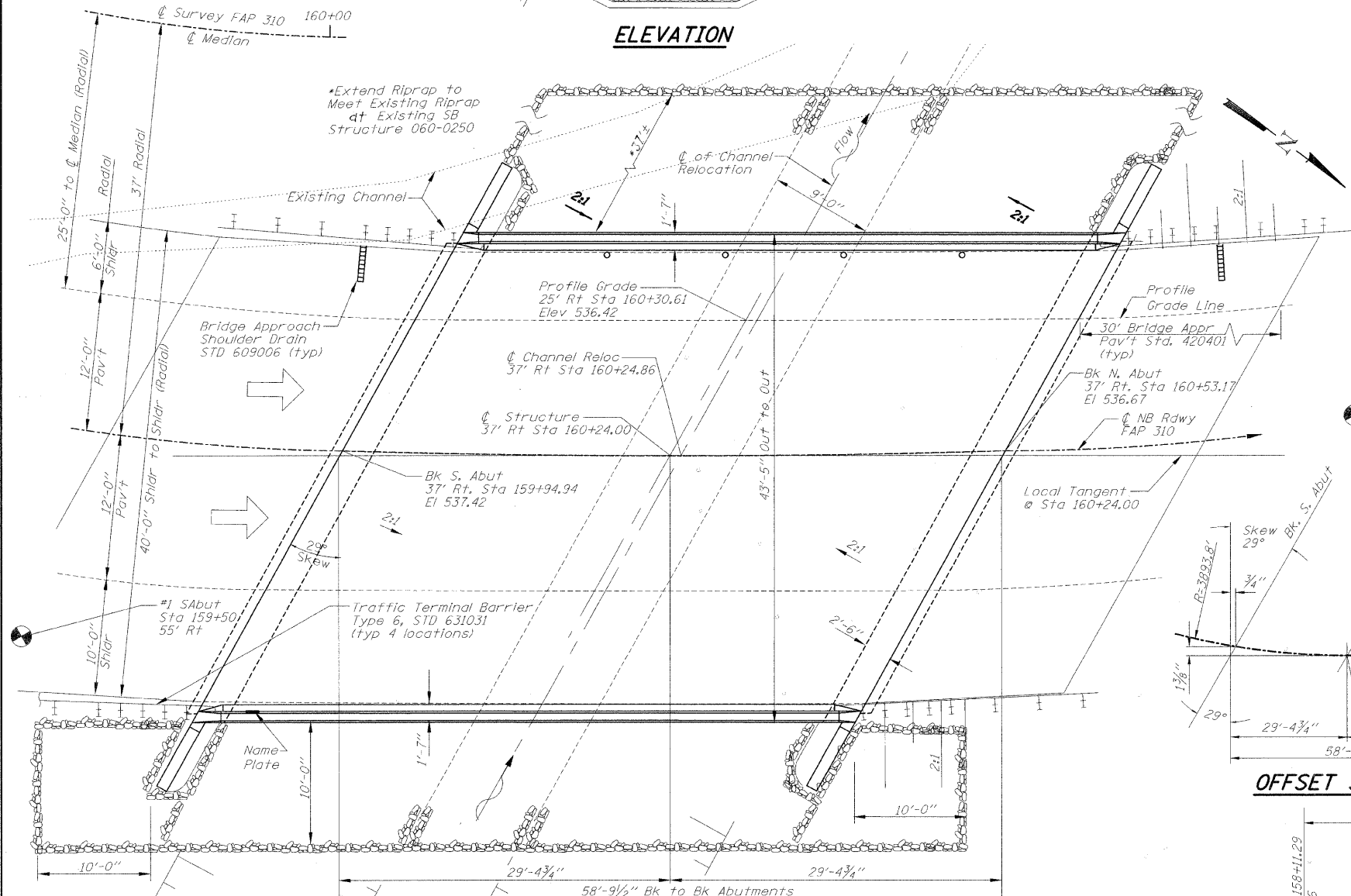
LOADING HS-20
STR. NO. 060-0328

NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIALS

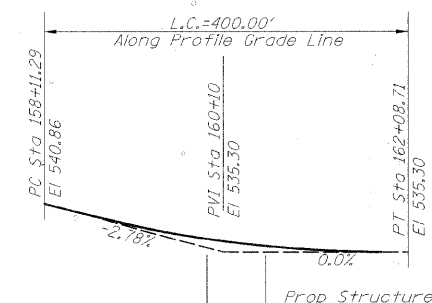
ITEM	UNIT	SUB.	SUPER.	TOTAL
Structure Excavation	CU YD	45.4		45.4
Floor Drains	EACH		4	4
Concrete Structures	CU YD	50.2		50.2
Protective Coat	SQ YD		311	311
Concrete Superstructure	CU YD		103.1	103.1
Furnishing and Erecting Structural Steel	L SUM		0.32	0.32
* Reinforcement Bars, Epoxy Coated	LB.	6,170	21,150	27,320
Furnishing Steel Piles HP 12X53	FOOT	498		498
Driving Piles	FOOT	498		498
Test Pile Steel HP 12X53	EACH	1		1
Name Plates	EACH		1	1
Stone Riprap, Class A4	SQ YD	580		580
Filter Fabric	SQ YD	580		580
Bridge Deck Grooving	SQ YD		250	250
Stud Shear Connectors	EACH		1170	1170
Bar Splacers	EACH		84	84
Porous Granular Embankment (Special)	CU YD	202		202
Pipe Underdrains for Structures 4"	FOOT		140	140

* See Special Provisions



PLAN

OFFSET SKETCH



PROFILE GRADE FOR NB RDWY

(Applies @ Left Edge of Pav't)
(Sta referenced to @ Survey)

WATERWAY INFORMATION

Drainage Area = 0.41 mi² Low Grade El 535.30 @ Sta 162+10

Flood	Freq Yr	0 ft/s	Opening sq ft	Head - ft	Headwater El
			* Exist Prop	* Exist Prop	* Exist Prop
Design	50	646	NA	149.6	530.02
Base	100	756	NA	165.8	530.45
Overtopping	NA	NA	NA	NA	NA
Max Calc	500	1028	NA	201.3	531.33

* Downstream Bridge Constructed 1988. S.N. 060-0250

DESIGN SPECIFICATIONS

1996 AASHTO with 1997 and 1998 Interlms

LOADING HS 20-44

Allow 50 lb/sf for Future Wearing Surface.

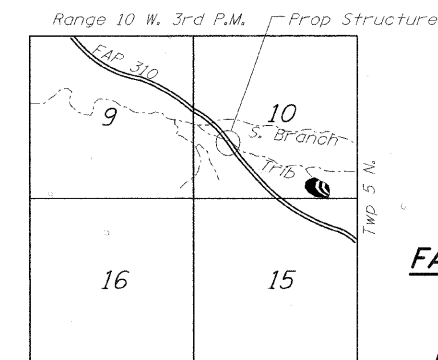
DESIGN STRESSES

FIELD UNITS

f_c = 3,500 psi
f_y = 60,000 psi (Reinf)
f_y = 50,000 psi (M 270, Grade 50, W-Beams)
f_y = 36,000 psi (M 270, Grade 36, Diaph.)

SEISMIC DATA

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



LOCATION SKETCH

STATE OF ILLINOIS
RANDALL P. BERNHARDT
Professional Engineer
License No. 81-4862
License Expires 11/30/02

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

GENERAL PLAN & ELEVATION
FAP 310 (US 67) OVER TRIB
SOUTH BRANCH OF PIASA CREEK
SECTION 60-(16B, 16-1B)
MADISON COUNTY STA 160+24.00
SN 060-0328

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

DESIGNED: J.L.G. CHECKED: G.E.P.
DRAWN: J.L.G. CHECKED: G.E.P.

Rev. 12/21/00