

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 227	98-11120-00-BR	JEFFERSON	35	24
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT		
CONTRACT NO. 95437				

### GENERAL NOTES

See Section 502 of the Standard Specifications for Structural Excavation.

The Contractor shall drive one (1) Steel HP12x53 Test Pile in a permanent location at the East Abutment and one (1) Steel HP12x63 Test Pile in a permanent location at Pier No. 2 as directed by the Engineer before ordering the remainder of the piles.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

Channel excavation shall be excavated as shown within the limits of the proposed bridge, then tapered to the existing channel at the ROW line. If the Engineer deems the material satisfactory, it may be used to construct the roadway embankment.

Reinforcement Bars shall conform to AASHTO M-31, M-42, or M-53, Grade 60 requirements.

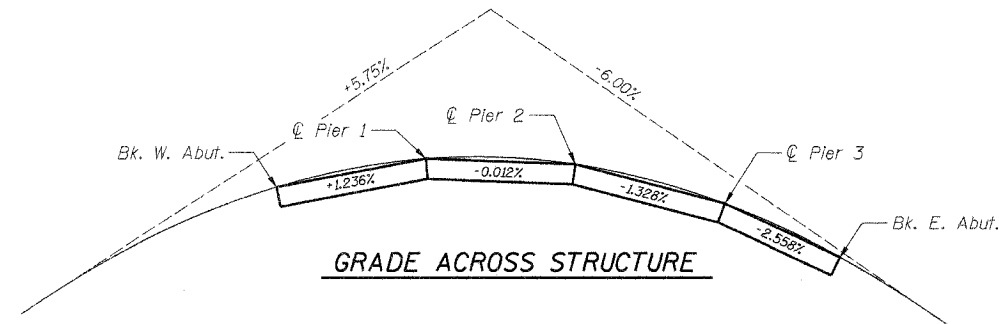
See Specifications for Soil Borings.

Do not scale these drawings.

In addition to all other requirements of section 512 of the Standard Specifications, splices for Steel H-piles shall develop the full capacity of the steel's cross sectional area of the pile for tension, shear and bending forces. One approved method of achieving this requirement is full penetration butt welding of the entire cross section. Other types of splices meeting the full capacity requirement may be allowed subject to the approval of the Engineer. Any proposal by the Contractor to use an alternate splice method must include adequate documentation demonstrating that the full tension, shear and bending capacities will be met. Appropriate welder qualifications will be required for the positions and processes used in splicing all piles. Nondestructive testing of completed welds will be limited to visual inspection.

### BILL OF MATERIAL (BRIDGE ONLY)

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu Yd	-	1152	1152
Porous Granular Embankment	Ton	-	99	99
Stone Dumped Riprap, Class A4	Ton	-	550	550
Removal of Existing Structures	Each	-	-	1
Concrete Structures	Cu Yd	-	259.6	259.6
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq Ft	7198	-	7198
Reinforcement Bars	Pound	-	36030	36030
Steel Railing, Type S1 (Special)	Foot	604	-	604
Furnishing Steel Piles HP12x53	Foot	-	544	544
Furnishing Steel Piles HP12x63	Foot	-	2297	2297
Driving Steel Piles	Each	-	2871	2841
Test Pile Steel HP12x53	Each	-	1	1
Test Pile Steel HP12x63	Each	-	1	1
Temporary Sheet Piling	Sq Ft	-	920	920
Names Plates	Each	-	1	1

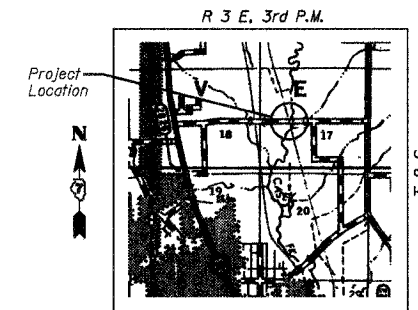


GRADE ACROSS STRUCTURE

UNION PACIFIC RR AND CASEY FORK  
 BUILT 200 BY  
 JEFFERSON COUNTY  
 SEC. 98-11120-00-BR  
 LOADING HS-20  
 STRUCTURE NO. 041-9928

### NAME PLATE

(See State Standard 515001 for details)



LOCATION SKETCH

### WATERWAY DATA

Drainage Area = 34.20 Sq. Mi. Low Grade Elev. 462.00 @ Sta. 29+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	20	3538	392	766	460.06	0.54	0.50	460.57	460.53	
Base	100	4920	436	868	460.62	0.45	0.64	461.07	461.26	
Max. Calc.	500	6173	472	947	461.09	0.38	0.78	461.47	461.87	

GENERAL DATA  
 PROPOSED BRIDGE OVER  
 UNION PACIFIC RAILROAD AND CASEY FORK  
 TR 227 (GREEN ROAD)  
 SECTION 98-11120-00-BR  
 JEFFERSON COUNTY, ILLINOIS

Sheet  
24  
of 35  
Job No. 52303

05/24/2005