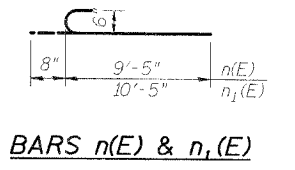
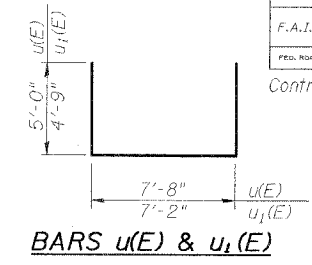


Contract # 91392



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
u(E)	24	5	7'-8"	—
h <sub>1</sub> (E)	48	5	7'-2"	—
n(E)	60	6	10'-1"	—
n <sub>1</sub> (E)	112	6	11'-1"	—
t(E)	80	8	9'-8"	—
t <sub>1</sub> (E)	144	8	9'-2"	—
u <sub>1</sub> (E)	32	5	17'-8"	U
u <sub>1</sub> (E)	72	5	17'-6"	U
Structure Excavation			Cu. Yd.	121
Concrete Structures			Cu. Yd.	155.6
Reinforcement Bars, Epoxy Coated			Pound	10,820
Furnishing Steel Piles, HP 10x42			Foot	833
Driving Piles			Foot	833
Test Pile,			Each	3

Bars designated (E) shall be epoxy coated.  
 HP piles shall be AASHTO M270 Grade 50.  
 \*Plates and angles shall be AASHTO M270 Grade 36.  
 \*HSS sections shall be ASTM A500 Grade B.  
 \*Plates, angles, and HSS sections shall be shop primed and painted with field touch-up. See Special Provisions.  
 \*Cost included with Masonry Column, Large and Masonry Column, Small  
 \*\*Cost included with Concrete Structures

**SMALL COLUMN PILE DATA**

Type: HP 10x42  
 Nominal Required Bearing: 108 kips  
 Factored Resistance Available: 43 kips  
 Est. Length: 38 ft  
 No. Production Piles: 14  
 No. Test Piles: 2

**LARGE COLUMN PILE DATA**

Type: HP 10x42  
 Nominal Required Bearing: 295 kips  
 Factored Resistance Available: 118 kips  
 Est. Length: 43 ft  
 No. Production Piles: 7  
 No. Test Piles: 1

**STRUCTURE DETAILS**

**CURTIS ROAD BRIDGE ENHANCEMENTS  
 CHAMPAIGN COUNTY  
 STATION 297+20.45**

**DESIGN FIRM REGISTRATION**  
 No. 184-000450  
**Clark Dietz**  
 ENGINEERS  
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