

**WEST ABUTMENT BILL OF MATERIAL**

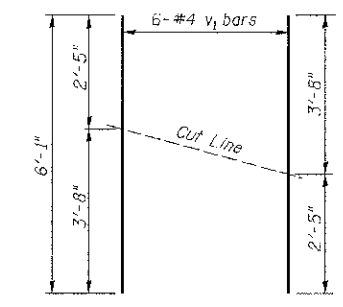
BAR	NO.	SIZE	LENGTH	SHAPE
h	6	#4	28'-9"	—
h <sub>1</sub>	20	#4	6'-6"	—
p	10	#7	28'-9"	—
s	28	#4	10'-5"	□
s <sub>1</sub>	2	#4	7'-8"	□
s <sub>2</sub>	2	#4	8'-4"	□
u	6	#6	12'-0"	□
v	58	#4	3'-2"	—
v <sub>1</sub>	12	#4	6'-1"	—
Concrete Structures		CU YD	11.2	
Reinforcement Bars		POUND	1,290	
Structure Excavation		CU YD	30	
Name Plates		EACH	1	
Furnishing Steel Piles		FOOT	66	
HP10x42				
Driving Piles		FOOT	66	
Test Pile Steel HP10x42		EACH	1	
Concrete Encasement		CU YD	1.4	

**DESIGN STRESSES**  
 $f'_c = 3,500 \text{ p.s.i.}$   
 $f_y = 60,000 \text{ p.s.i.}$

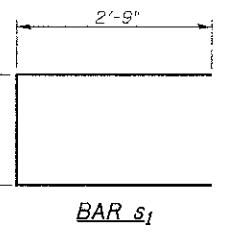
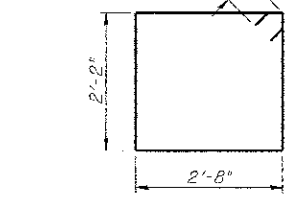
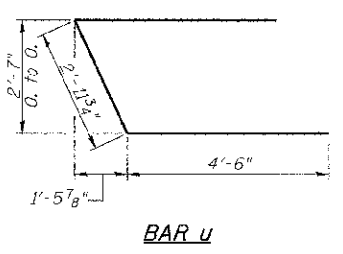
- NOTES**
- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
  - Reinforcement bars shall conform to ASTM A106 Grade 60.

**PILE DATA**

Type & Size:	Steel HP10x42
Nominal Required Bearing:	335 kips
Factored Resistance Available:	184 kips
Est. Length:	22'
No. Req'd:	4 (Includes 1 Test Pile)



\*Order v<sub>1</sub> bars full length. Cut as shown and use remainder of bars in opposite face.



**WEST ABUTMENT BROWN COUNTY SECTION 10-04118-00-BR T.R. 141 OVER WELLS FORK**

SHEET NO. 8 12 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TR 141	10-04118-00-BR	BROWN	24	14
	S.N. 005-3407		CONTRACT NO. 93588		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BROS-0009(221)			