



**BILL OF MATERIAL - 2 ABUTS.**

BAR	NO.	SIZE	LENGTH	SHAPE
h	40	#4	9'-0"	—
h1	8	#4	7'-6"	—
h2	4	#4	41'-5"	—
p	16	#7	41'-5"	—
p1	20	#4	41'-5"	—
s	74	#5	11'-7"	□
s1	4	#5	13'-5"	□
u	16	#6	13'-0"	▤
v	16	#4	5'-3"	—
v1	24	#4	4'-1"	—
v2	24	#4	2'-11"	—
v3	168	#4	3'-2"	—
Concrete Structures			Cu. Yd.	37.8
Concrete Encasement			Cu. Yd.	4.0
Reinforcement Bars			Pound	3,810
Steel Piles HP10x42			Foot	495
Test Pile Steel HP10x42			Each	1
Name Plates			Each	1

**PILE DATA**

Type ----- Steel HP10x42  
 No. Req'd. (2 Abuts.) ----- \*12  
 Factored Resistance Available (Rf) ----- 167 Kips/Pile  
 Nominal Required Bearing (Rn) ----- 335 Kips/Pile  
 Est. Length ----- 45 Ft/Pile

Notes: \* Includes one test pile to be driven in permanent location at the South Abutment.

The Steel H-Piles shall be according to AASHTO M270 Grade 50.

The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

DESIGNED - S.M.S.
CHECKED - S.W.M.
DRAWN - D.T.M.
CHECKED - D.A.B.

**HAMPTON, LENZINI & RENWICK, INC.**  
 CIVIL & STRUCTURAL ENGINEERS  
 LAND SURVEYORS

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PROJECT NUMBER: 08.0148.130 DATE: 01/15/09

SHEET NO. 6	C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		17		05-00102-00-BR	
9 SHEETS	CONTRACT NO. 95581				
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		