



BILL OF MATERIAL - 2 PIERS

BAR	NO.	SIZE	LENGTH	SHAPE
p(E)	16	#7	25'-2"	—
p ₁ (E)	20	#4	25'-2"	—
s(E)	42	#5	12'-7"	□
u(E)	16	#6	12'-7"	—
Concrete Structures			Cu. Yd.	20.6
Concrete Encasement			Cu. Yd.	11.8
Reinforcement Bars			Pound	2,010
Steel Piles HP10x42			Foot	455
Test Pile Steel HP10x42			Each	1

PILE DATA

Type: Steel HP10x42
 No. Req'd. (2 Piers): *8
 Factored Resistance Available (R_f): 167 Kips/Pile
 Nominal Required Bearing (R_n): 335 Kips/Pile
 Est. Length: 65 Ft/Pile

Notes: *Includes one test pile to be driven in permanent location at Pier 2.

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

**PIERS
STRUCTURE NO. 096-3451**

HAMPTON, LENZINI AND RENWICK, INC. CIVIL ENGINEERS - STRUCTURAL ENGINEERS - LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 217.546.3400 www.hlrengineering.com	SHEET NO. 7	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10 SHEETS	622	08-15143-00-BR	WAYNE	14	11
PROJECT NUMBER: 09.0060.130			DATE: 06/22/09		LEECH ROAD DISTRICT CONTRACT NO. 95607	
FED. ROAD DIST. NO.			ILLINOIS		FED. AID PROJECT	