



SECTION A-A
Hatched area to be poured after beams are in place.

BILL OF MATERIAL - 2 ABUTS.

BAR	NO.	SIZE	LENGTH	SHAPE
h	40	#4	6'-3"	—
h ₁	8	#4	4'-9"	—
h ₂	4	#4	26'-10"	—
p	16	#7	26'-10"	—
p ₁	20	#4	26'-10"	—
s	42	#5	11'-7"	□
u	16	#6	12'-3"	—
v	16	#4	4'-11"	—
v ₁	16	#4	3'-11"	—
v ₂	16	#4	2'-11"	—
v ₃	108	#4	2'-8"	—
Concrete Structures			Cu. Yd.	23.6
Concrete Encasement			Cu. Yd.	2.8
Reinforcement Bars			Pound	2,620
Steel Piles HP12x53			Foot	344
Name Plates			Each	1

PILE DATA

Type ----- Steel HP12x53
 No. Req'd. (2 Abut.) ----- 8
 Factored Resistance Available (Rf) ----- 209 Kips/Pile
 Nominal Required Bearing (Rn) ----- 419 Kips/Pile
 Est. Length ----- 40 Ft./Pile (W. Abut.)
 46 Ft./Pile (E. Abut.)

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

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

ABUTMENTS
STRUCTURE NO. 097-3255

HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400	SHEET NO. 6	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	8 SHEETS	237	06-02123-00-BR	WHITE	12	10
PROJECT NUMBER: 08.0262.130	DATE: 05/26/08	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
				CONTRACT NO. 99364		