



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₃₃₀ (E)	34	#6	13'-1"	—
p ₃₃₀ (E)	11	#6	36'-5"	—
p ₃₃₁ (E)	2	#4	21'-0"	—
p ₃₃₂ (E)	2	#4	5'-10"	—
s ₃₃₀ (E)	32	#4	11'-5"	□
s ₃₃₁ (E)	2	#4	12'-6"	□
s ₃₃₂ (E)	22	#4	5'-7"	□
u ₃₃₀ (E)	9	#6	10'-8"	└
v ₃₃₁ (E)	72	#5	4'-4"	—
v ₃₃₂ (E)	11	#5	11'-2"	—
v ₃₃₃ (E)	11	#5	10'-0"	—
Concrete Structures		Cu. Yd.	17.8	
Reinforcement Bars, Epoxy Coated		Pound	2,370	
Furnishing Steel Piles, HP 12x53		Foot	160	
Driving Piles		Foot	160	
Test Pile Steel HP 12x53		Each	1	
Concrete Encasement		Cu. Yd.	2.1	

- NOTES:**
1. Pour steps monolithically with cap.
 2. Space reinforcement to miss anchor bolts.
 3. See Sheet 2 of 23 for abutment backfill requirements.
 4. See Sheet 21 of 23 for steel H-pile details.
 5. For details of piles and Concrete Encasement, see sheet 21 of 23.

PILE DATA

PILE TYPE AND SIZE:	HP 12x53
NOMINAL REQUIRED BEARING:	418 Kips
FACTORED RESISTANCE AVAILABLE:	230 Kips
ESTIMATED PILE LENGTH:	32 Ft.
NUMBER OF PRODUCTION PILES:	5
NUMBER OF TEST PILES:	1

CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

FILE NAME = ...Ramp 1\50 ABUT_015.dgn
USER NAME = Rob Heady
DESIGNED - BPD
CHECKED - BPD
PLOT SCALE =
PLOT DATE = 10/7/2011

DESIGNED - BPD
CHECKED - BPD
DRAWN - GLD
REVISOR -
REVISOR -
REVISOR -
REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT
STRUCTURE NO. 100-0097**
SHEET NO. 14 OF 23 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	01-6-2HB-1	WILLIAMSON	968	674
* F.A.I. 57 AND F.A.P. 331 CONTRACT NO. 78182				
ILLINOIS FED. AID PROJECT				