



**SOUTH ABUTMENT (S.B.) BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h240(E)	32	#7	13'-9"	—
h241(E)	2	#4	46'-4"	—
h242(E)	12	#6	13'-9"	—
p240(E)	24	#8	38'-8"	—
s242(E)	73	#6	12'-0"	□
s243(E)	1	#6	12'-3"	□
s244(E)	47	#4	4'-2"	□
u240(E)	4	#6	7'-1"	┘
u241(E)	4	#6	7'-0"	┘
v240(E)	124	#5	4'-4"	—
v241(E)	10	#5	18'-11"	—
Structure Excavation			Cu. Yd.	162
Concrete Structures			Cu. Yd.	28.6
Concrete Encasement			Cu. Yd.	8.2
Reinforcement Bars, Epoxy Coated			Pound	6,000
Furnishing Steel Piles HP14x89			Foot	825
Driving Piles			Foot	825
Test Pile Steel HP14x89			Each	0

**PILE DATA**

Type:	Steel HP 14x89
Nominal Required Bearing:	705k
Factored Resistance Available:	388k
Est. Length:	55'
No. Production Piles:	15
No. Test Piles:	0
Estimated Top of Rock Elevation:	415.10

Notes:  
 Four steps monolithically with cap.  
 Space reinforcement to miss anchor bolts.  
 See Sheet 2 of 75 for abutment backfill requirements.  
 See Sheet 66 of 75 for steel H-pile and Concrete Encasement details.

**CMT**  
 CRAWFORD MURPHY & TILLY, INC.  
 CONSULTING ENGINEERS  
 SPRINGFIELD, ILL. ■ AUBURN, ILL. ■ ST. LOUIS, MO  
 ROCKFORD, ILL. ■ PEORIA, ILL. ■ CHICAGO, ILL.

FILE NAME = ...\\157\041\_SOUTH ABUT\_SB.dgn  
 USER NAME = Rob Healy  
 DESIGNED - JDJ  
 CHECKED - REB  
 DRAWN - GLD  
 CHECKED - REB  
 PLOT SCALE =  
 PLOT DATE = 10/7/2011

DESIGNED - JDJ	REVISÉ -
CHECKED - REB	REVISÉ -
DRAWN - GLD	REVISÉ -
CHECKED - REB	REVISÉ -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT**  
**STRUCTURE NO. 100-0089 (S.B.)**  
 SHEET NO. 51 OF 75 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(X1-6-2)HBK-2	WILLIAMSON	968	636

CONTRACT NO. 78182  
 ILLINOIS FED. AID PROJECT