



BILL OF MATERIAL

Bar No.	Size	Length	Shape
$h_{10}(E)$	#5	41'-0"	—
$n_{10}(E)$	#7	4'-8"	U
$t_{10}(E)$	#6	6'-6"	—
$u_{10}(E)$	#5	10'-2"	U
$v_{10}(E)$	#7	6'-0"	—
$w_{10}(E)$	#5	45'-6"	—
Cofferdam Excavation	Cu. Yd.	143	
Cofferdams	Each	1	
Concrete Structures	Cu. Yd.	54.7	
Seal Coat Concrete	Cu. Yd.	61.1	
Reinforcement Bars, Epoxy Coated	Pound	4,110	
Furnishing Metal Shell Piles 14" x 0.250"	Foot	546	
Driving Piles	Foot	546	
Test Pile Metal Shells	Each	1	

Reinforcement Bars designated (E) shall be epoxy coated.

PILE DATA

Pile Type and Size: Metal Shell 14" dia. x 1/4" Walls
 Nominal Required Bearing: 306 kips
 Allowable Resistance Available: 102 kips
 Estimated Pile Length: 42 ft.
 Number of Production Piles: 13
 Number of Test Piles: 1

DESIGNED	S.S.T.
CHECKED	S.D.H.
DRAWN	E.B.
CHECKED	S.S.T.

- Notes:
- The cofferdam design Water Elevation = 816.3
 - The plan dimensions of the Seal Coat Concrete is 11' x 50'.
 - The Seal-Coat Concrete thickness is 3'-0".
 - Space reinforcement in cap to miss anchor bolts.
 - Pour steps monolithically with cap.

PIER 2
 IL Route 176 over
 South Branch of the Kishwaukee River
 F.A.P. RTE 533, SECTION 119R-1-B
 McHENRY COUNTY
 STATION 51+50.00
 S.N. 056-0071
 DATE: 08-17-07
 GRAEF, ANHALT, SCHLOEMER & ASSOCIATES INC
 CHICAGO ILLINOIS