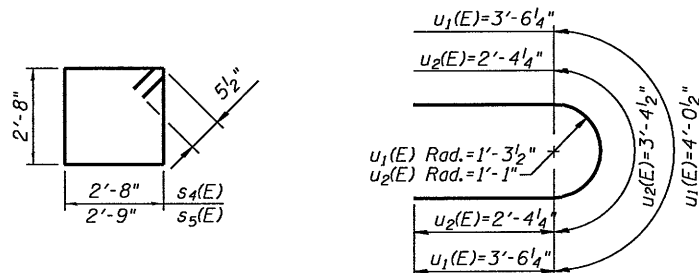


PIER 1 PILE DATA

Type and Size: Metal Shell Piles 14" x 0.250"
 Nominal Required Bearings: 318 Kips
 Factored Resistance Available: 175 Kips
 Est. Length: 47 Ft.
 No. Production Piles: 8
 No. Test Piles: 1

PIER 2 PILE DATA

Type and Size: Metal Shell Piles 14" x 0.250"
 Nominal Required Bearings: 318 Kips
 Factored Resistance Available: 175 Kips
 Est. Length: 47 Ft.
 No. Production Piles: 8
 No. Test Piles: 1



BAR s₄(E) & s₅(E)

BARS u₁(E) & u₂(E)

MINIMUM BAR LAP

#4 bar = 2'-4"
 #6 bar = 3'-6"

**BILL OF MATERIAL
PIER 1**

Bar	No.	Size	Length	Shape
h ₁ (E)	10	#4	29'-1"	—
h ₂ (E)	10	#4	26'-7"	—
p ₂ (E)	10	#7	29'-4"	—
p ₃ (E)	10	#7	26'-10"	—
s ₄ (E)	60	#5	11'-7"	□
s ₅ (E)	2	#5	11'-9"	□
u ₁ (E)	8	#6	11'-1"	⌋
u ₂ (E)	10	#4	8'-1"	⌋
v ₄ (E)	126	#4	7'-2"	—
v ₅ (E)	120	#5	4'-2"	—
Cofferdam Excavation		Cu. Yd.	75	
Cofferdam (Type 1) (Location - 1)		Each	1	
Concrete Structures		Cu. Yd.	48.5	
Concrete Encasement		Cu. Yd.	4.9	
Reinforcement Bars, Epoxy Coated		Pound	3,580	
Furnishing Metal Shell Piles, 14" x 0.250"		Foot	376	
Driving Piles		Foot	376	
Test Pile Metal Shells		Each	1	

**BILL OF MATERIAL
PIER 2**

Bar	No.	Size	Length	Shape
h ₁ (E)	10	#4	29'-1"	—
h ₂ (E)	10	#4	26'-7"	—
p ₂ (E)	10	#7	29'-4"	—
p ₃ (E)	10	#7	26'-10"	—
s ₄ (E)	60	#5	11'-7"	□
s ₅ (E)	2	#5	11'-9"	□
u ₁ (E)	8	#6	11'-1"	⌋
u ₂ (E)	10	#4	8'-1"	⌋
v ₄ (E)	126	#4	7'-2"	—
v ₅ (E)	120	#5	4'-2"	—
Cofferdam Excavation		Cu. Yd.	105	
Cofferdam (Type 1) (Location - 2)		Each	1	
Concrete Structures		Cu. Yd.	49.5	
Concrete Encasement		Cu. Yd.	4.9	
Reinforcement Bars, Epoxy Coated		Pound	3,580	
Furnishing Metal Shell Piles, 14" x 0.250"		Foot	376	
Driving Piles		Foot	376	
Test Pile Metal Shells		Each	1	

Notes:
 For details of pile and Concrete Encasement,
 see Sheet S-20.
 See "Cofferdam (Type 1)" special provision.

HR GREEN, INC.
 KEVIN J BRENN
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 PROJECT CONTACT
 CLIENT: OTTEDI
 FILE NAME: 0909116-01B-019-P14.dgn
 PLOT DRIVER: pdfwrt.plt
 PEN TABLE: Illinois_half.tbl



USER NAME =	DESIGNED - MGH	REVISED
	CHECKED - KJB	REVISED
PLOT SCALE =	DRAWN - WJH	REVISED
PLOT DATE =	CHECKED - KJB	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PIER DETAILS
 STRUCTURE NO. 098-0118

SHEET NO. S-19 OF S-23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	15BR-1	WHITESIDE	146	77
CONTRACT NO. 64F19				
ILLINOIS FED. AID PROJECT				