



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h1(E)	17	#5	21'-3"	—
h2(E)	54	#5	8'-3"	—
h3(E)	30	#5	7'-9"	—
p2(E)	14	#8	21'-3"	—
p3(E)	8	#7	18'-4"	—
p4(E)	8	#6	8'-5"	—
s4(E)	48	#6	13'-8"	□
s5(E)	8	#6	8'-6"	□
s6(E)	8	#6	9'-6"	□
s7(E)	24	#5	6'-6"	□
s8(E)	30	#5	6'-8"	□
sp(E)	4	#4	8'-2"	⋈
sp4	1	#4	17'-6"	⋈
sp11	1	#4	18'-0"	⋈
sp12	1	#4	19'-0"	⋈
sp13	1	#4	15'-0"	⋈
u1(E)	9	#5	10'-3"	U
v4(E)	52	#8	18'-3"	—
v5(E)	48	#5	7'-11"	—
v6(E)	48	#5	7'-3"	—
v10	13	#9	17'-6"	—
v17	13	#9	18'-0"	—
v18	13	#9	19'-0"	—
v19	13	#9	15'-0"	—

- Construction Sequence for Web Wall:**
1. Excavate between shafts to elevation of web wall base and set lower web wall forms through water to bear on the circular edge of drilled shafts. Secure in place with fill, struts or tie forms together as required. Web wall excavation is included with Concrete Structures.
  2. Place the lower web wall reinforcement cage into the forms using spacers to maintain proper clearances.
  3. If the forms can be sealed against the shafts and streambed to allow dewatering, the reinforcement and the concrete placement may be completed in the dry. Alternatively, the rebar cage can be lowered into position through water and the concrete discharged at the base of the excavation through a tremie pipe or pump hose, displacing water, sediment, and tainted concrete out the top of the forms.
  4. Construct Columns.
  5. Construct upper web walls.

**SHAFT REINFORCEMENT\*\*\***

Column	sp	v
Column 1	sp11	v17
Column 2	sp12	v18
Column 3	sp4	v10
Column 4	sp13	v19

**MIN. BAR LAP**  
 #5 bar = 2'-6"  
 #6 bar = 3'-0"

Note:  
 If a portion of the drilled shaft web walls is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

\* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.



USER NAME =	DESIGNED - RPW	REVISED -
FILE NAME =	CHECKED - TBP	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE =	CHECKED - MTH	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**W.B. PIER 2  
 STRUCTURE NO. 081-0195 (W.B.)**

SHEET NO. 29 OF 38 SHEETS

F.A.I. RTE. 74/280	SECTION 81-3BR	COUNTY ROCK ISLAND	TOTAL SHEETS 290	SHEET NO. 192
CONTRACT NO. 64D23			ILLINOIS FED. AID PROJECT	