











BAR V9(E)

# 3′-6" BAR s<sub>2</sub>(E) 3′-6"

SHEET NO. 38 122 52 SHEETS

Contract #72789

23(B-1)

LOGAN

ILLINOIS FED. AID PROJECT

## BILL OF MATERIAL

TOTAL SHEETS

179

Bar	No.	Size	Length	Shape
h <sub>5</sub> (E)	18	#6	30'-10"	
h <sub>6</sub> (E)	192	#5	8'-5"	
h <sub>7</sub> (E)	4	#4	11'-7"	
h <sub>8</sub> (E)	4	#4	26'-7"	
h <sub>9</sub> (E)	4	#4	41'-7"	
h <sub>I</sub> d(E)	8	#4	29'-3"	
h <sub>11</sub> (E)	8	#4	36′-9"	
111-7		,		
P6(E)	16	#9	28'-10"	
p7(E)	8	#9	48'-0"	
p <sub>8</sub> (E)	16	#9	46'-2"	
, -				
s <sub>2</sub> (E)	127	#6	16′-2"	<b>3</b>
53(E)	127	#6	5′-3"	
S4(E)	215	#4	6′-6"	Ш
sp	7	#4	51′-0"	<b>////</b>
sp <sub>1</sub> (E)	7	#4	15′-3"	<b>////</b>
u <sub>1</sub> (E)	10	#6	14'-1"	
u <sub>2</sub> (E)	5	#4	11'-1"	
V 7	98	#8	51'-0"	
ν <sub>8</sub> (Ε)	98	#8	13′-10"	
V9(E)	98	#8	19′-5"	
V10(E)	120	#5	15′-0"	
Concrete Structures			Cu. Yd.	168.1
Reinforcement Bars			Pound	18,230
Reinforcement Bars, Epoxy Coated			Pound	27,300
Structure Excavation			Cu. Yd.	44
Drilled Shaft in Soil			Cu. Yd.	65.2
Drilled Shaft in Rock			Cu. Yd.	77.3
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\*\*Length is height of spiral.



BAR ,	0 <u>6 (E)</u>
u1(E)	
2'-11"	1-8" R.
DADC (/	_\ 0 /[

27'-7"

BARS  $u_1(E)$  &  $u_2(E)$ 

F.A.U. ROUTE 7706 - SECTION 23(B-1)

LOGAN COUNTY STATION 99+46.00 STRUCTURE NO. 054-0512

PIER 1 DETAILS

### CONSTRUCTION SEQUENCE FOR WEB WALL

- 1. Excavate between shafts to elevation of web wall base and set 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.
- 2. Place the 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 web walls.

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.

\* If the prevailing water surface elevation during construction

SECTION C-C

Estimated top of rock

Elev. 520.0

DESIGNED	CME
CHECKED	МСВ
DRAWN	TFG
CHECKED	MCB

## COOMBE-BLOXDORF P.C.

Engineers /Land Surveyors Springfield, Illinois Design Firm License No. 184-002703