STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BILL	<u>PIER 1</u> OF MATERIAL	
		_
No	Size Length Shape	

Bar

Bar	No.	Size	Length	Shape	
h8(E)	4	#4	24'-4"		
hg(E)	4	#4	30'-10"		
hto(E)	60	#4	10'-8"		
hµ(E)	42	#4	10'-2"		
h12(E)	120	#4	2'-0"		
P9(E)	4	#10	24'-4"		
$P_{10}(E)$	4	#10	30'-10"		
<i>ρ<sub>11</sub>(E)</i>	4	#10	25'-11"		
P12(E)	4	#10	32'-5"		
P13(E)	6	#10	12'-6"		
\$3(E)	58	#4	12'-11"	3	
54(E)	16	#4	7′-8″	Ц	
\$5(E)	16	#4	7'-2"	Ц	
\$6(E)	42	#4	4'-0"	LI	
$sp_4(E)$	4	#5	11'-2"	~~~	
SD5	4	#5	23'-0"	$\sim$	
$U_2(E)$	6	#6	9'-11"	$ \longrightarrow $	
V10(E)	44	#9	13'-6"		
V11	44	#9	22'-10"		
$V_{I2}(E)$	44	#9	11'-6"		
V13(E)	66	#4	9'-9"		
V14(E)	66	#4	7'-11"		
Underw	ater Sti	ructure			
Excava	tion Pro	otection	Each	1	
Locatio	n í				
	Shaft i	n Soil	Foot	77.0	
42″	42″			37.2	
Drilled Shaft in Rock			Foot	<i><b>CC</b></i> <b>7</b>	
36"			Foot	55.7	
36″	te Stru	ctures	Cu. Yd.	54.3	
36'' Concre	te Struc rcement		Cu. Yd.		
36'' Concre Reinfoi			Cu. Yd. Pound	<u>54.3</u> 9930	
36'' Concre Reinfoi Epoxy	rcement	Bars,			

Reinforcement Bars designated (E) shall

be epoxy coated. \*\*Length is height of spiral.

DESIGNED	T.L. Kurtenbach	January 26 2005
CHECKED	J.E. Kramer	EXAMINED Thomas & Domagaliki
DRAWN	A.M. Seiber	PASSED Ralph E. anderson
CHECKED	JEK/TLK	ENGINEER OF BRIDGES AND STRUCTURES

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<u>BAR s3(E)</u>





BARS p11(E) & p12(E)



ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.	5
F.A.P. 312	71BR	RANDOLPH		73	48	
FED. ROAD DIST. NO. 7		ILLIN018	FED. AID PROJECT-			

Contract No. 76125

SHEET NO. 24 31 SHEETS

## Construction Sequence for Web Wall:

- 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 the forms together as required.
  Place the lower web wall reference to accurate the forme using sequence.
- 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.

\* 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.

PIER 1 F.A.P. RT. 312 - SEC. 71BR RANDOLPH\_COUNTY STATION 1128+90 STRUCTURE NO. 079-0048