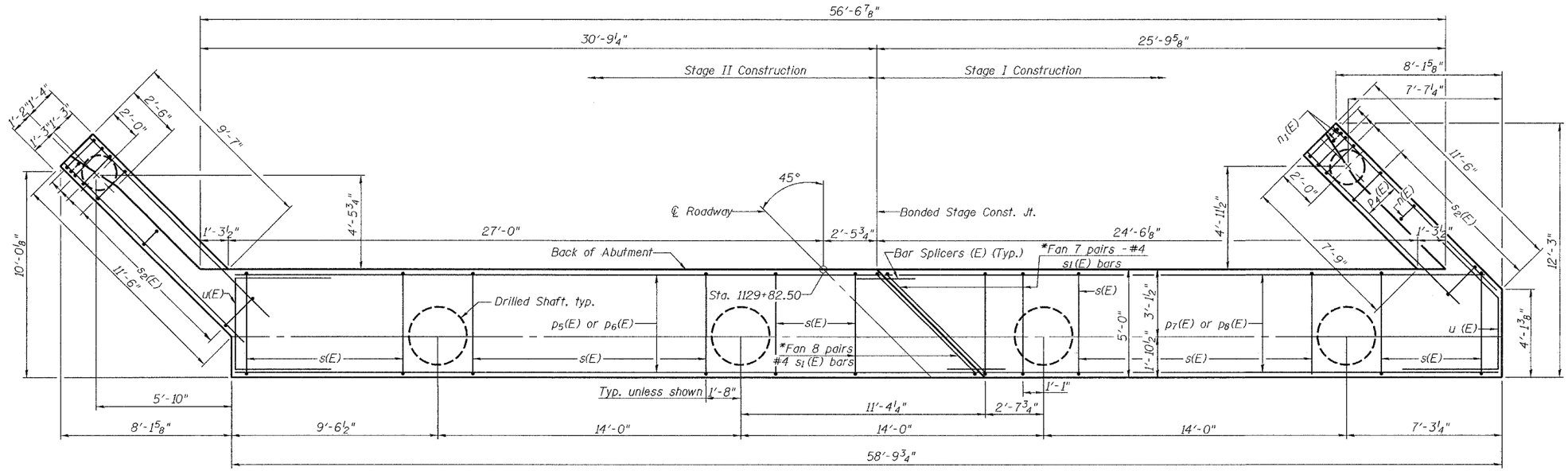
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

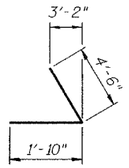
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 312	71BR	RANDOLPH	73	45
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 21
31 SHEETS

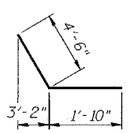
Contract No. 76125



PLAN-PILE CAP



BAR h4(E)



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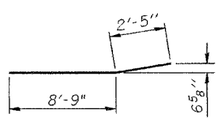

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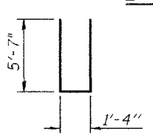
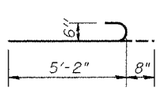
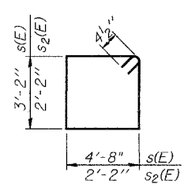


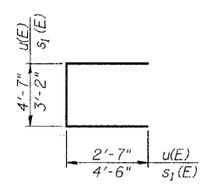
BAR n(E)



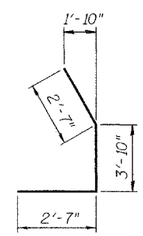
BAR n1(E)



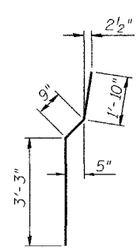
BARS s(E) & s2(E)



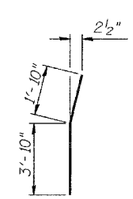
BARS u(E) & s1(E)



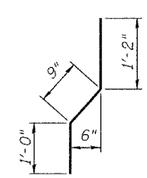
BAR u1(E)



BAR v4(E)



BAR v3(E)



BAR v1(E)

MIN. BAR LAP

#4 bar = 1'-8"

*Use 2½" minimum clear distance between s1(E) bars.

NORTH ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	4	#6	25'-5"	
h1(E)	6	#5	25'-5"	
h2(E)	4	#6	30'-6"	
h3(E)	6	#5	30'-6"	
h4(E)	10	#5	6'-4"	
h5(E)	10	#5	6'-4"	
h6(E)	20	#4	11'-2"	
h7(E)	12	#4	11'-2"	
n(E)	18	#6	12'-6"	
n1(E)	12	#6	5'-10"	
n2(E)	44	#9	8'-9"	
n3(E)	12	#7	5'-2"	
p4(E)	12	#7	11'-2"	
p5(E)	9	#9	34'-6"	
p6(E)	8	#8	34'-6"	
p7(E)	9	#9	28'-7"	
p8(E)	8	#8	28'-7"	
s(E)	64	#4	16'-5"	
s1(E)	30	#4	12'-2"	
s2(E)	24	#4	9'-5"	
u(E)	4	#6	9'-9"	
u1(E)	4	#6	9'-0"	
v(E)	114	#4	4'-7"	
v1(E)	57	#4	2'-11"	
v2(E)	57	#5	2'-3"	
v3(E)	6	#6	5'-8"	
v4(E)	18	#6	5'-10"	
v5(E)	24	#6	6'-0"	
v8	44	#9	33'-6"	
v9	12	#7	27'-7"	
* sp2	4	#5	35'-3"	
* sp3	2	#5	28'-2"	
Structure Excavation			Cu. Yd.	174.9
Concrete Structures			Cu. Yd.	60.4
Reinforcement Bars, Epoxy Coated			Pound	8720
Reinforcement Bars			Pound	10,060
Drilled Shaft in Soil 24"			Foot	47.0
Drilled Shaft in Soil 42"			Foot	94.0
Drilled Shaft in Rock 18"			Foot	9.0
Drilled Shaft in Rock 36"			Foot	41.7

Reinforcement bars designated (E) shall be epoxy coated.
*Length is height of spiral.

DESIGNED	T.L. Kurtenbach
CHECKED	J.E. Kramer
DRAWN	A.M. Seiber
CHECKED	JEK/TLK

January 26, 2005
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

NORTH ABUTMENT
F.A.P. RT. 312 - SEC. 71BR
RANDOLPH COUNTY
STATION 1128+90
STRUCTURE NO. 079-0048