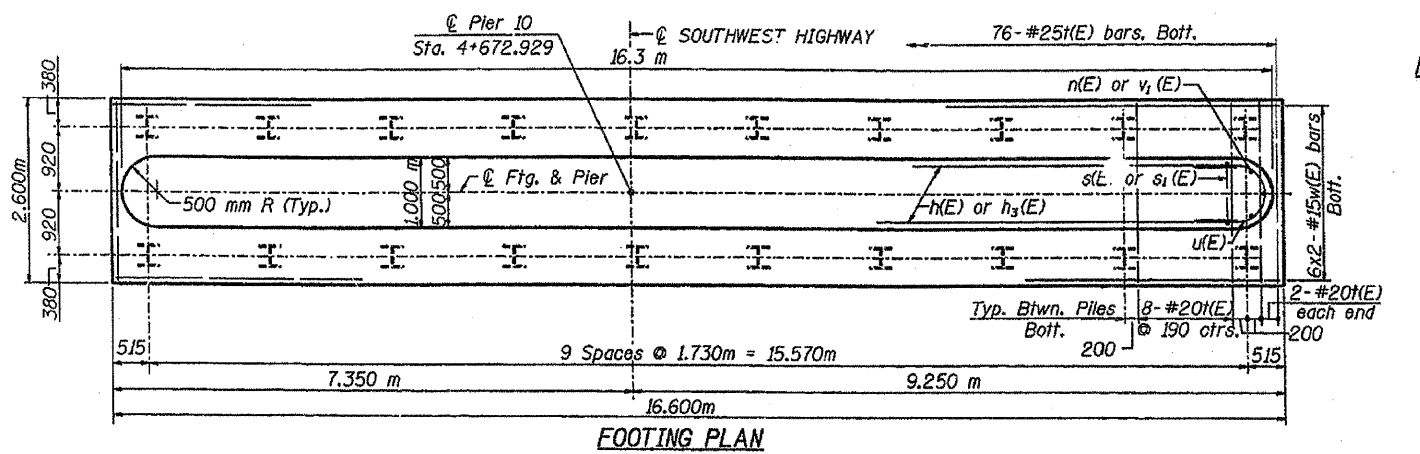
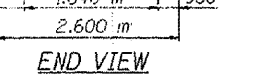
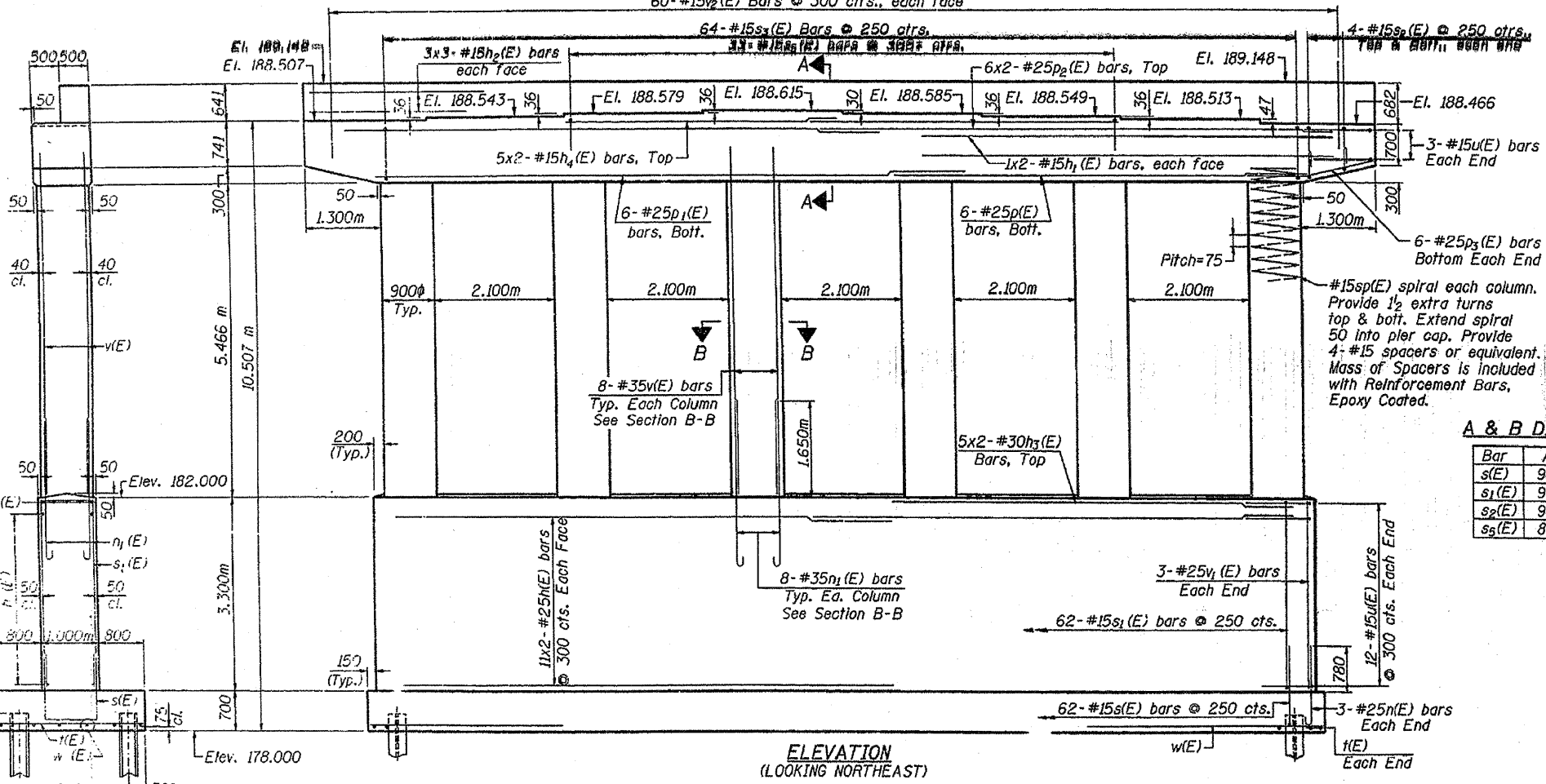
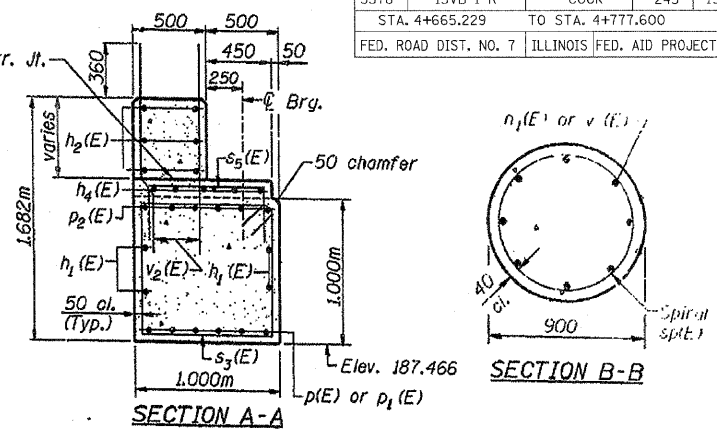
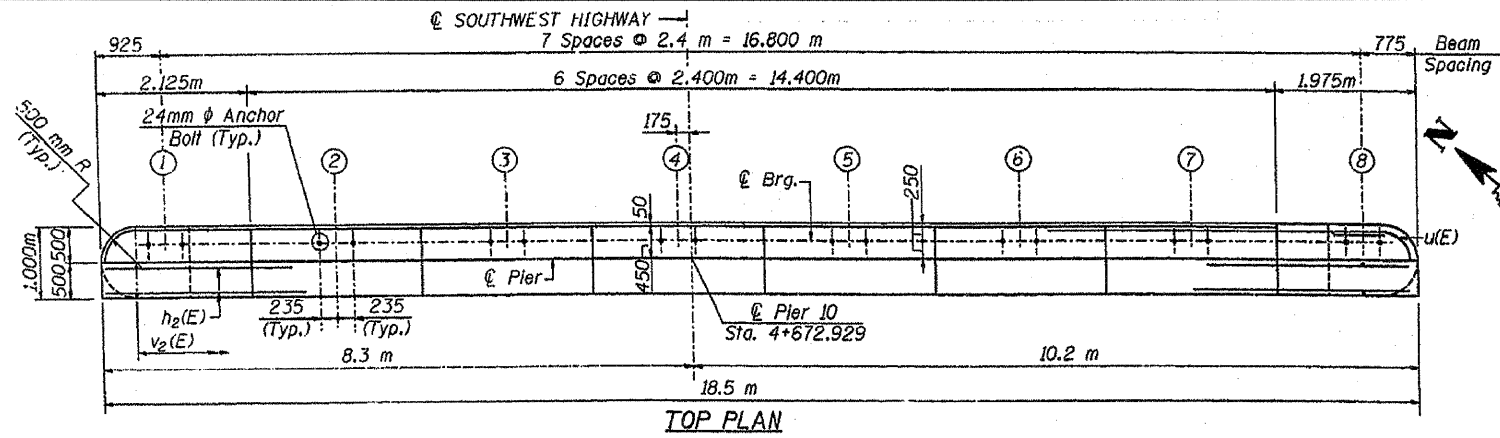


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	15VB-1-R	COOK	243	194
STA. 4+665.229 TO STA. 4+777.600				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

NOTES:

Space Reinforcement in cap to miss anchor bolts.
 All edges shall have standard 20 mm chamfer except as noted.
 Pour steps monolithically with cap.
 Min. Spiral lap=1 1/2 turns.
 Bars indicated thus 6x2-#25 etc. indicates 6 Lines of bars with 2 lengths per line.



BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h(E)	44	#25	8.36	—
h1(E)	8	#15	9.12	—
h2(E)	18	#15	6.56	—
h3(E)	10	#30	8.63	—
h4(E)	10	#15	5.07	—
n(E)	6	#25	1.69	—
n1(E)	48	#35	2.71	—
p(E)	6	#25	7.16	—
p1(E)	6	#25	10.16	—
p2(E)	12	#25	9.46	—
p3(E)	12	#25	2.56	—
s(E)	62	#15	3.72	—
s1(E)	62	#15	7.34	—
s2(E)	16	#15	2.44	—
s3(E)	64	#15	3.88	—
s5(E)	33	#15	1.70	—
sp(E)	6	#15	5.47	—
v(E)	76	#20	2.50	—
v1(E)	6	#25	3.20	—
v2(E)	120	#15	1.36	—
w(E)	12	#15	8.57	—
Furnishing Steel Piles HP 310x79				
HP 310x79	m		123.5	
Test Piles Steel HP 310x79				
HP 310x79	Each		1	
Concrete Structure				
Concrete Structure	m3		127.2	
Reinforcement Bars, Epoxy Coated				
Reinforcement Bars, Epoxy Coated	Kg		12,020	
Structure Excavation				
Structure Excavation	m3		129	

A & B DIMENSIONS

Bar	A	B
s(E)	900	1.41
s1(E)	900	3.22
s2(E)	900	770
s5(E)	800	450

MIN. BAR LAPS

#15 Bars=640
 #25 Bars=1320
 #30 Bars=1850

PILE DATA
 Type: Steel Friction Piles HP 310x79
 Capacity: 600 Kn capacity driven to 900 Kn bearing
 Est. Length: 6.5 m
 No. Required: 19+1 Test Pile in a permanent location

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PIER 10 DETAILS
 SOUTHWEST HIGHWAY OVER
 B. & O.C.T. RAILROAD AND MELVINA DITCH
 F.A.U. ROUTE 3578 SEC. 15VB-1-R
 COOK COUNTY STATION 4+716.471
 STRUCTURE NO. 016-0463
 SCALE: DATE: 6/17/09 DRAWN BY: F. MUNIR CHECKED BY: B. SHAH
 CHRISTIAN - ROGE & ASSOC. CHICAGO ILLINOIS

FOR INFORMATION ONLY