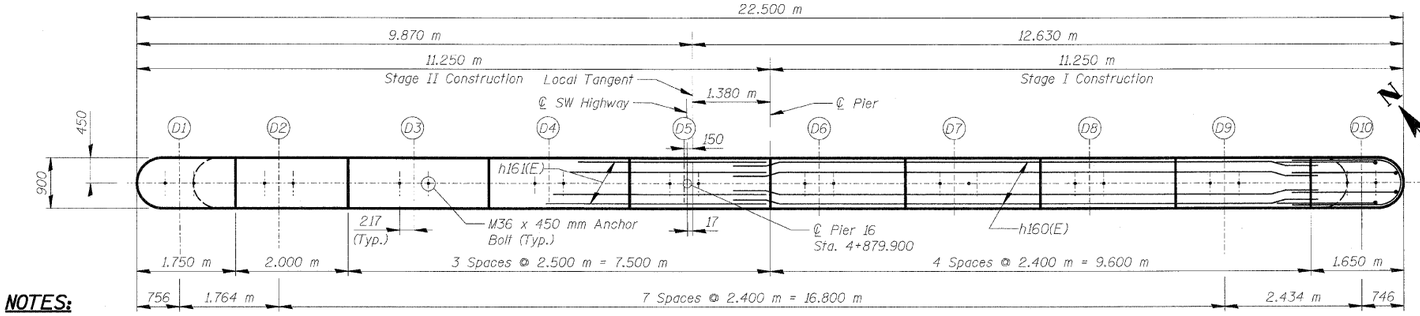
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	15V B-1-R-1	COOK	243	157
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

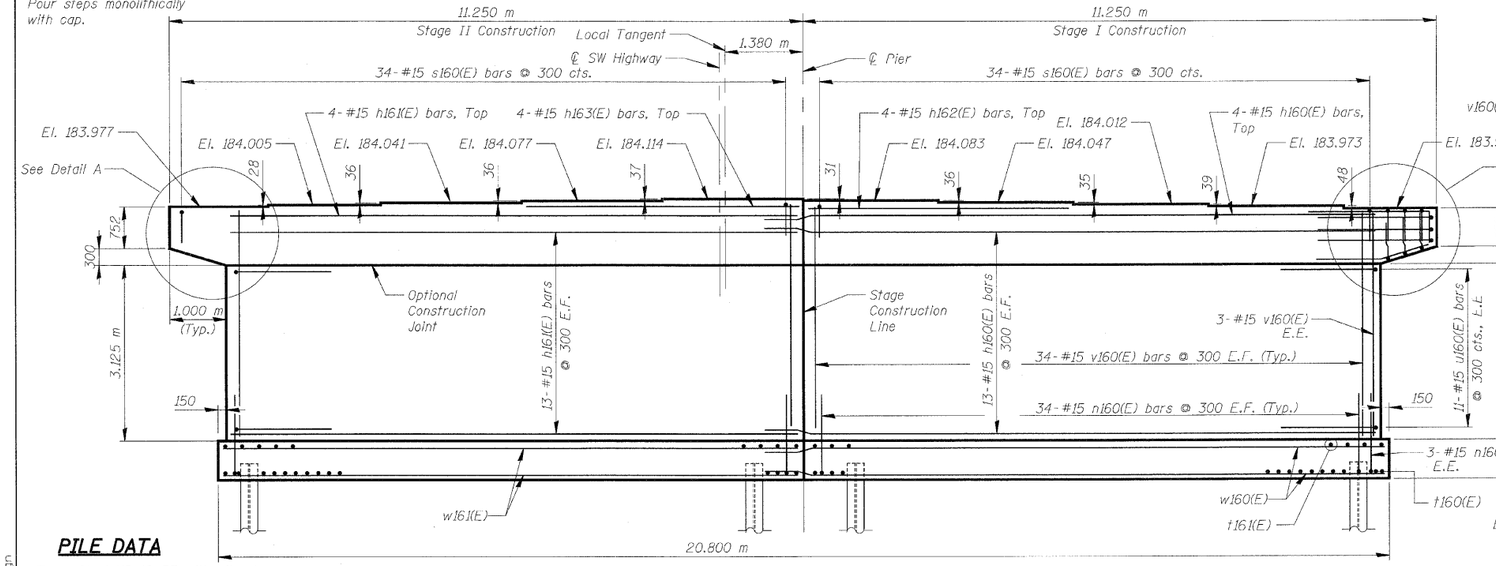
CONTRACT NO. 62388



TOP PLAN

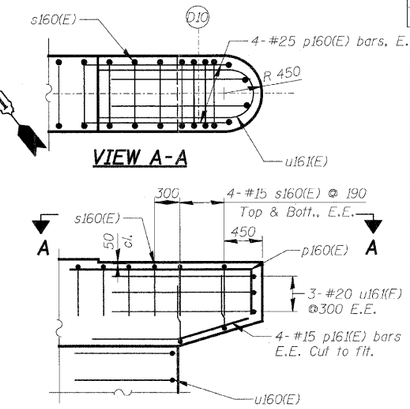
NOTES:

Space Reinforcement in cap to miss anchor bolts.
All edges shall have standard 20mm chamfer except as noted.
Pour steps monolithically with cap.



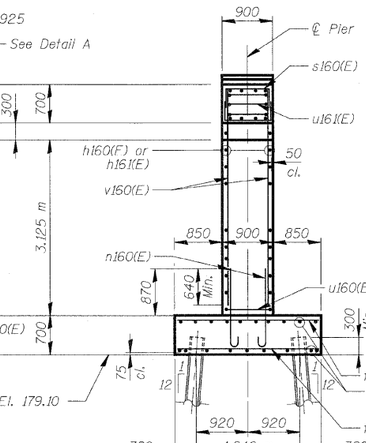
ELEVATION

(Looking Northeast)



DETAIL A

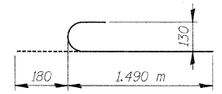
v160(E), h160(E) & h161(E) not shown for clarity



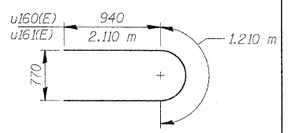
SIDE VIEW

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h160(E)	30	# 15	10.740	
h161(E)	30	# 15	9.750	
h162(E)	4	# 15	4.700	
h163(E)	4	# 15	4.900	
n160(E)	142	# 15	1.670	
p160(E)	8	# 25	3.460	
p161(E)	8	# 15	1.690	
s160(E)	84	# 15	2.080	
t160(E)	78	# 25	2.500	
t161(E)	70	# 15	2.500	
u160(E)	22	# 15	3.090	
u161(E)	6	# 20	5.430	
v160(E)	142	# 15	4.030	
w160(E)	20	# 15	11.290	
w161(E)	20	# 15	10.300	
Structure Excavation			m³	150
Concrete Structures			m³	117.5
Reinforcement Bars, Epoxy Coated			kg	4,600
Furnishing Steel Piles HP310x79			m	279.3
Driving Piles			m	279.3
Test Pile Steel HP310x79			Each	1
Pile Shoes			Each	20



BAR n160(E)

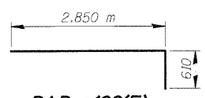


BAR u160(E) & u161(E)

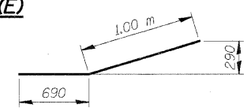
TYP. LAP SPLICE	
BAR SIZE	MIN. LAP
#15	890 mm
#20	1.110 m
#25	1.850 m

PILE DATA

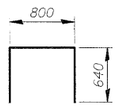
Type: Steel HP 12x53 with pile shoes
Nominal Required Bearing: 1860 kN
Allowable Resistance Available: 620 kN
Est. Length: 14.7 m
No. Production Piles: 19
No. Test Piles: 1



BAR p160(E)



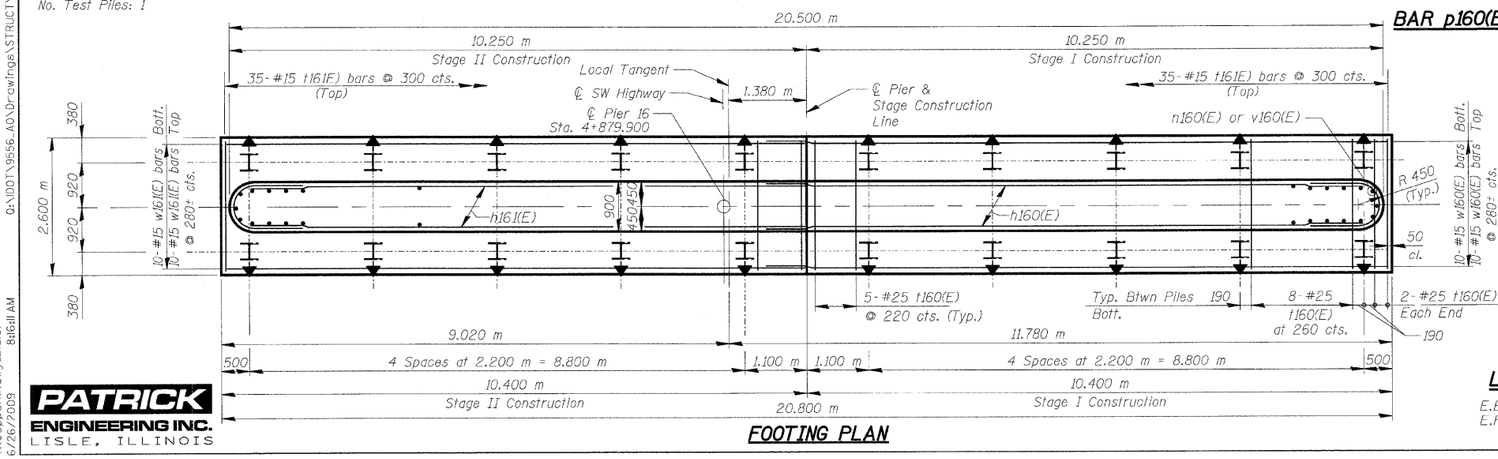
BAR p161(E)



BAR s160(E)

NOTES:

1. Reinforcement bars designated (E) shall be Epoxy Coated.
2. Bars indicated thus 20 x 3 - #15 etc. indicates 20 lines of bars with 3 lengths per line.
3. All dimensions are in millimeters (mm) except as noted.



FOOTING PLAN

LEGEND:

E.E. Each End
E.F. Each Face

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PIER 16

SOUTHWEST HIGHWAY OVER B&O RAILROAD AND STONY CREEK

FAU 3578 **SECTION** 15V B-1-R-1
STRUCTURE NUMBER 016-2771
COOK COUNTY **STATION** 4+716.497

SCALE: NONE — DRAWN BY: **E. Mroozek**
DATE: 6/17/09 — CHECKED BY: **G. Hatlestad**

PATRICK ENGINEERING INC.
LISLE, ILLINOIS

D:\IDOT\9556_A01\Drawings\STRUCT\62_Pier 16.dgn
tkoeppen(Rdwy_Lisle)
6/26/2009 8:16:11 AM