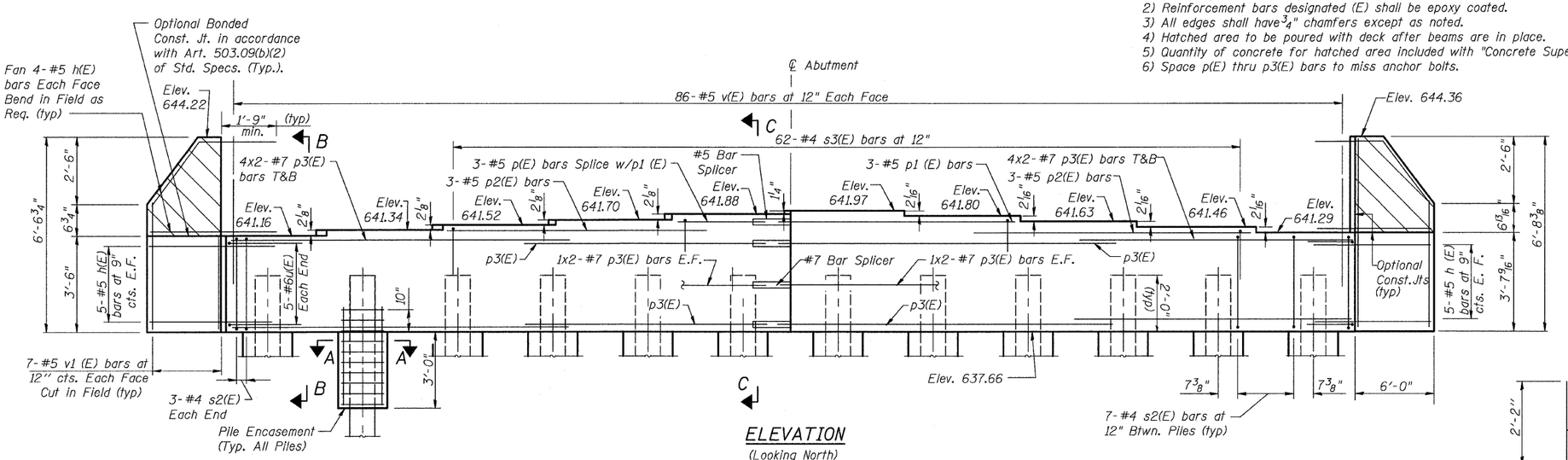
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	3268F-R-1	COOK	279	150
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

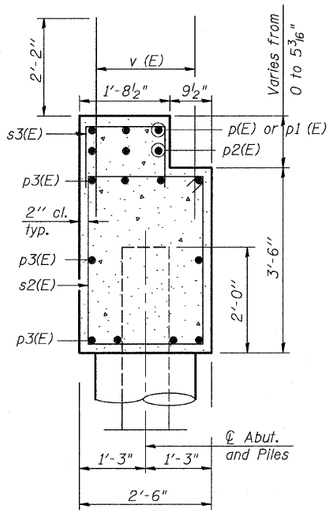
SHT. S-18 OF S-28

CONTRACT NO. 62387

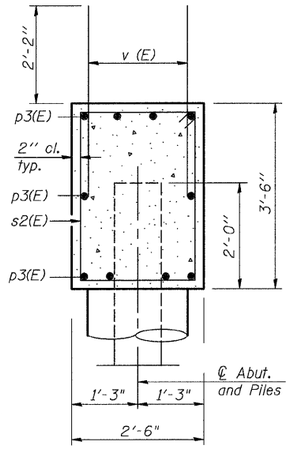
Notes:
1) Pour steps monolithically with cap.
2) Reinforcement bars designated (E) shall be epoxy coated.
3) All edges shall have $\frac{3}{4}$" chamfers except as noted.
4) Hatched area to be poured with deck after beams are in place.
5) Quantity of concrete for hatched area included with "Concrete Superstructure" on Sheet S-13.
6) Space p(E) thru p3(E) bars to miss anchor bolts.



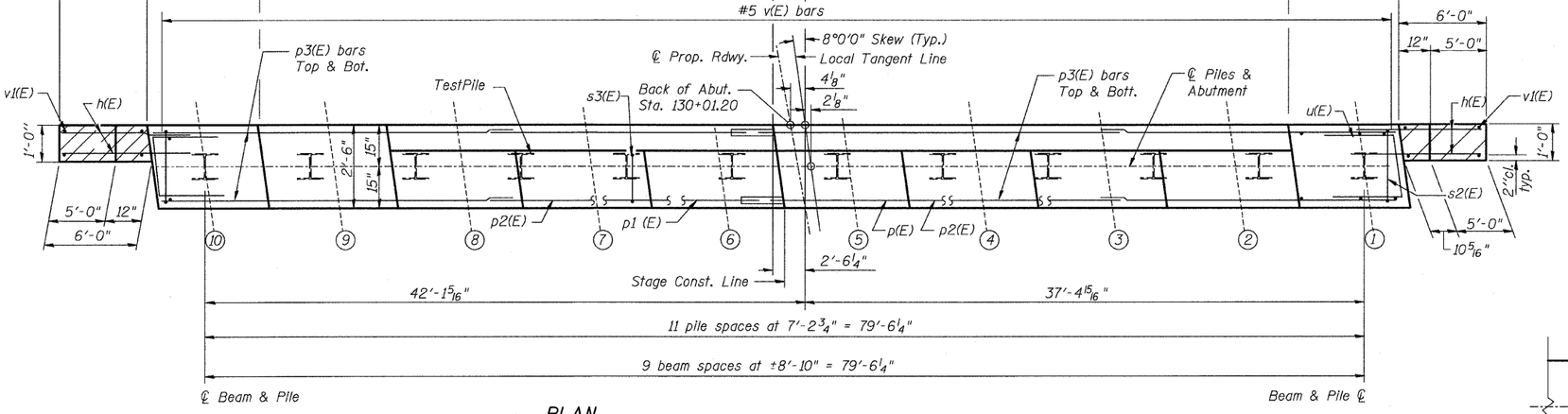
ELEVATION
(Looking North)



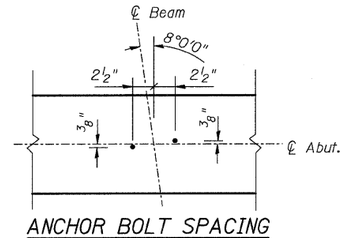
SECTION C-C
ABUTMENT



SECTION B-B
ABUTMENT



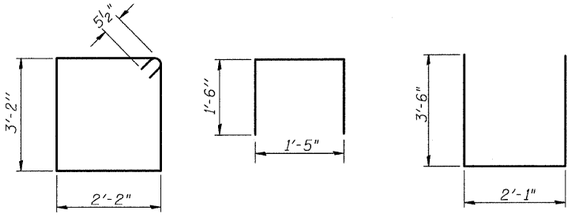
PLAN



ANCHOR BOLT SPACING

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	36	#5	8'-3"	——
p(E)	3	#5	8'-6"	——
p1(E)	3	#5	17'-4"	——
p2(E)	6	#5	19'-10"	——
p3(E)	40	#7	23'-0"	——
s2(E)	83	#4	11'-7"	□
s3(E)	62	#4	4'-5"	⊓
u(E)	10	#6	9'-1"	⊐
v(E)	172	#5	3'-3"	——
v1(E)	28	#5	6'-5"	——
Concrete Structures		Cu. Yd.	36.5	
Reinforcement Bars, Epoxy Coated		Pound	4130	
Furnishing Steel Piles HP 10x42		Foot	638	
Driving Piles		Foot	638	
Pile Shoes		Each	11	
Test PileSteel HP 10x42		Each	1	

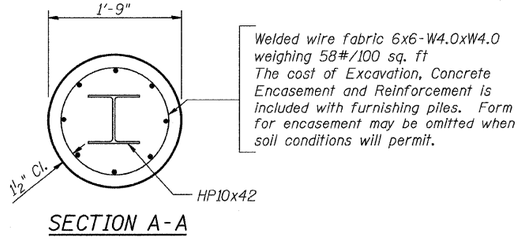


BAR s2(E) BAR s3(E) BAR u(E)

PILE DATA

Type: Steel HP10x42
with Pile Shoes
Nominal Required Bearing: 498 kips
Allowable Reisistance Available: 110 kips
Est. Length: 58 Feet
No. Required: 11
Plus 1 Test Pile

The Steel H-piles shall be according to AASHTO M270 Grade 50



SECTION A-A

PILE ENCASEMENT DETAIL

Welded wire fabric 6x6-W4.0xW4.0 weighing 58#/100 sq. ft
The cost of Excavation, Concrete Encasement and Reinforcement is included with furnishing piles. Form for encasement may be omitted when soil conditions will permit.

Min. Bar Splice Length
#5 = 2'-2"
#7 = 3'-5"

STV Incorporated
Engineers/Architects/Planners/Construction Managers
200 W. Monroe Street, Suite 1650
Chicago, IL. 60606-5015
312/553-0635, FAX 312/553-0661

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 21
MILWAUKEE AVE. OVER DES PLAINES RIVER
F.A.P. ROUTE 374 SECTION 3268F-R-1
COOK COUNTY, SN 016-6566

NORTH ABUTMENT

DESIGN BY: AWH DRAWN BY: AWH
DATE: 02/05/08 CHECKED BY: BTO CHECKED BY: JAW