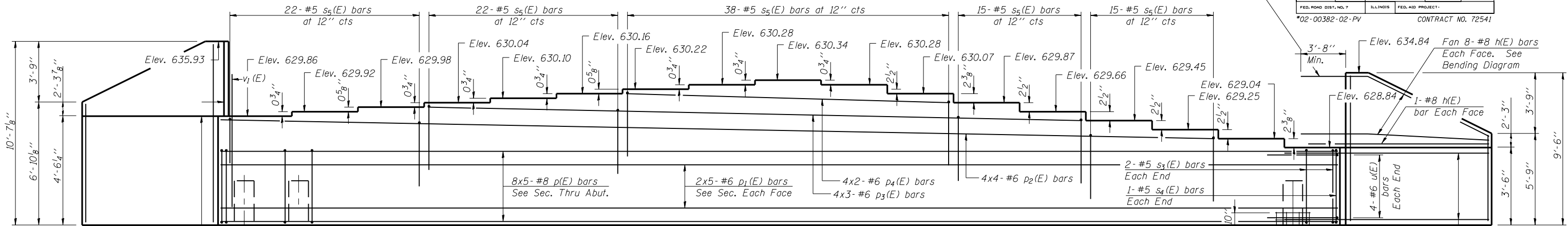


Notes: Pour steps monolithically with cap.  
Reinforcement bars designated (E)  
shall be epoxy coated.

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.	SHEET NO.
F.A.U. 8071	#	SANGAMON	559	245	27 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 72541		
*02-00382-02-PV					

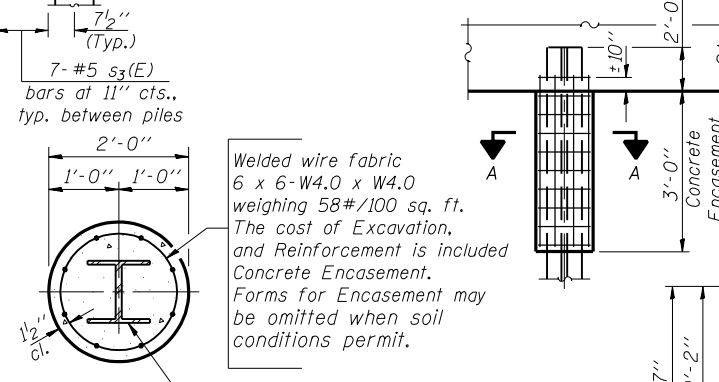


**ELEVATION**  
(Looking North)

**BENDING DIAGRAM**

h(E) Bar Order	Dimensions		
	a	b	c
h(E)-1	4'-8"	9'-7"	3'-8 1/2"
h(E)-2	4'-10"	9'-5"	3'-3"
h(E)-3	5'-0"	9'-3"	2'-9 1/2"
h(E)-4	5'-1"	9'-2"	2'-3 1/2"
h(E)-5	5'-2"	9'-1"	1'-10"
h(E)-6	5'-3"	9'-0"	1'-4 1/2"
h(E)-7	5'-4"	8'-11"	11"
h(E)-8	5'-4"	8'-11"	5 1/2"

Bending table for h(E) bars. Bars shall be placed in wing using numerical order shown above starting at the top of wing.



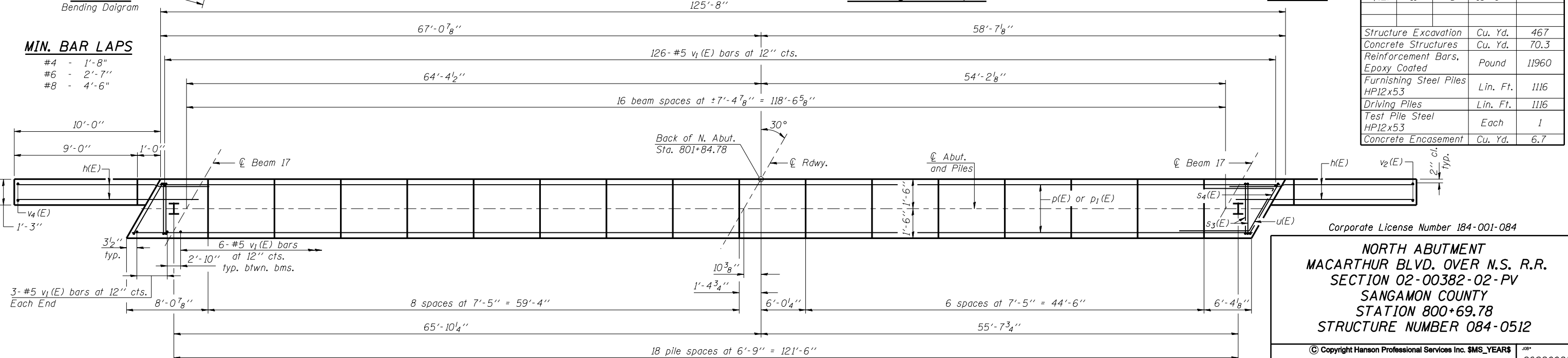
**PILE DATA**  
**PILE ENCASEMENT DETAIL**

Type: Steel Piles HP12x53  
Nominal Required Bearing: 419 kips  
Allowable Resistance Available: 123 kips  
Est. Length: 62'  
No. Required: 19 Piles/Abutment (Includes 1 Test Pile)  
Test Piles: 1 required at each abutment

**BAR h(E)**  
Bending Diagram

**MIN. BAR LAPS**

- #4 - 1'-8"
- #6 - 2'-7"
- #8 - 4'-6"



**PLAN**

**BILL OF MATERIAL**

Bar No.	Size	Length	Shape
h(E)	60	#8	14'-3"
p(E)	40	#8	28'-9"
p1(E)	20	#6	27'-3"
p2(E)	16	#6	30'-0"
p3(E)	12	#6	26'-5"
p4(E)	8	#6	19'-9"
s3(E)	130	#5	12'-7"
s4(E)	2	#5	13'-5"
s5(E)	112	#5	9'-8"
u(E)	8	#6	8'-1"
v1(E)	228	#5	4'-4"
v2(E)	11	#5	14'-7"
v4(E)	11	#5	16'-9"
Structure Excavation	Cu. Yd.	467	
Concrete Structures	Cu. Yd.	70.3	
Reinforcement Bars, Epoxy Coated	Pound	11960	
Furnishing Steel Piles HP12x53	Lin. Ft.	1116	
Driving Piles	Lin. Ft.	1116	
Test Pile Steel HP12x53	Each	1	
Concrete Encasement	Cu. Yd.	6.7	

Corporate License Number 184-001-084

**NORTH ABUTMENT**  
**MACARTHUR BLVD. OVER N.S. R.R.**  
**SECTION 02-00382-02-PV**  
**SANGAMON COUNTY**  
**STATION 800+69.78**  
**STRUCTURE NUMBER 084-0512**

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JOB# 96S2002B  
DATE 10/30/05

LAYOUT 06/27/03  
DRAWN 01/04/05  
REVIEWED JMM 02/24/05