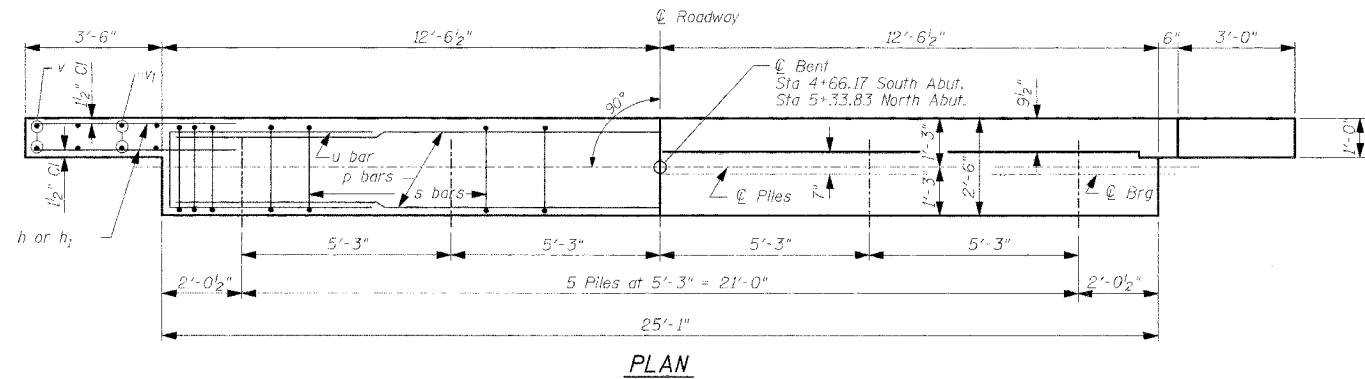
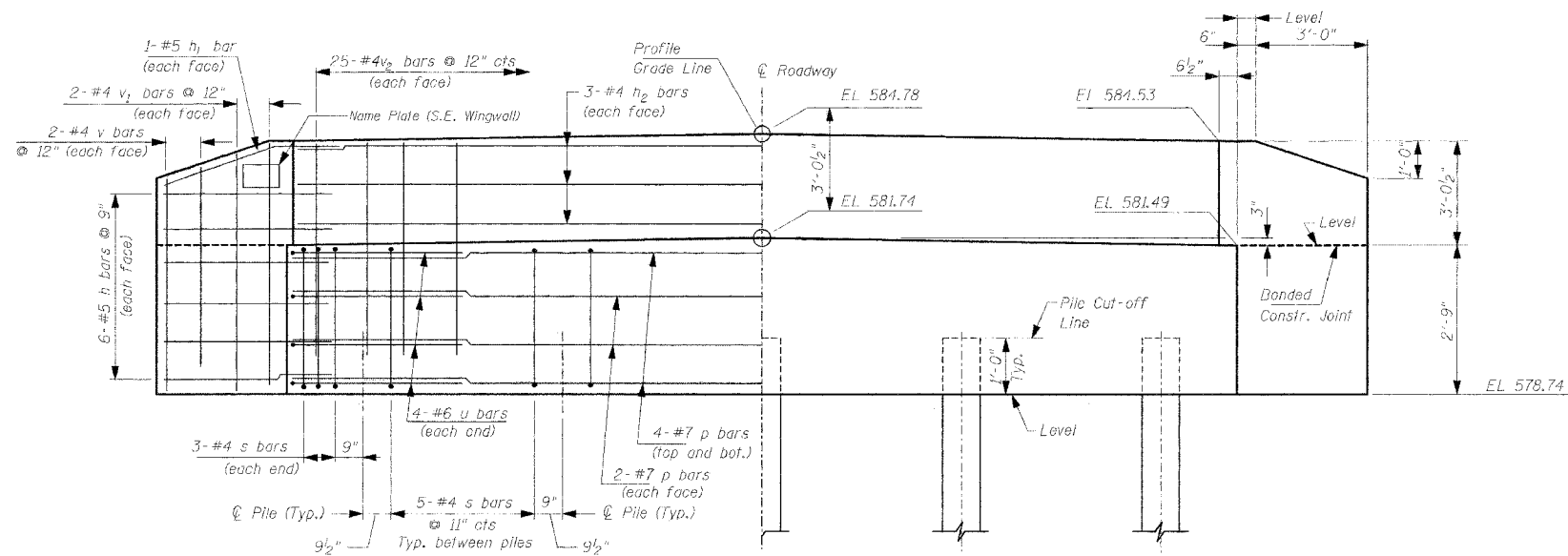


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR-324	*	MORGAN	10	7
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		

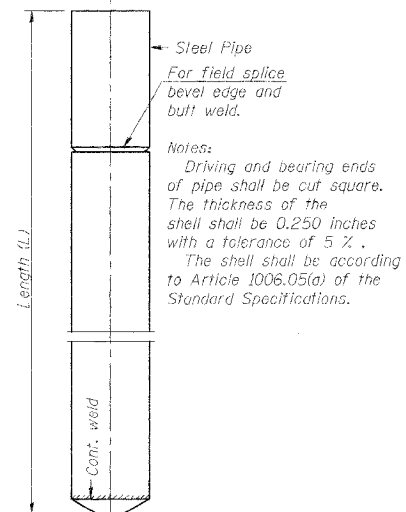
* 05-01117-00-BR



PLAN



ELEVATION



DETAIL OF CYLINDRICAL STEEL SHELL FOR CAST IN PLACE CONCRETE PILES

PILE DATA (South Abut.)

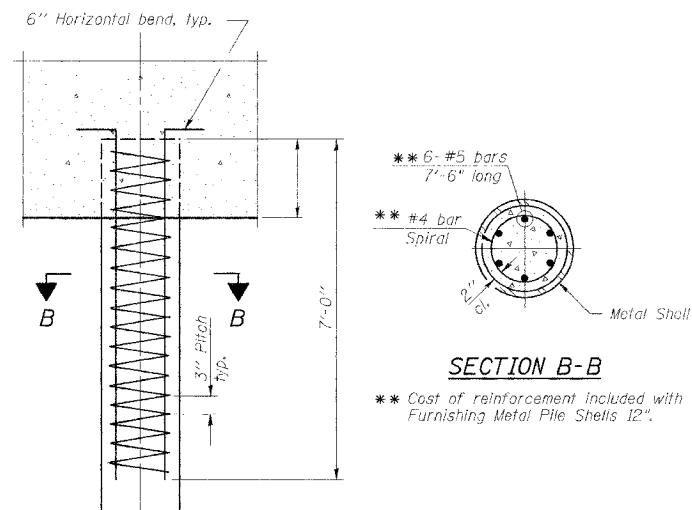
Type: Metal Pile Shell 12" W/ 1/4" Wall
Capacity: 43 Ton
Est. Length: 50 Ft
Number Required: 5

PILE DATA (North Abut.)

Type: Metal Pile Shell 12" W/ 1/4" Wall
Capacity: 43 Ton
Est. Length: 45 Ft
Number Required: 5 (Includes 1 Test Pile)

DESIGN STRESSES

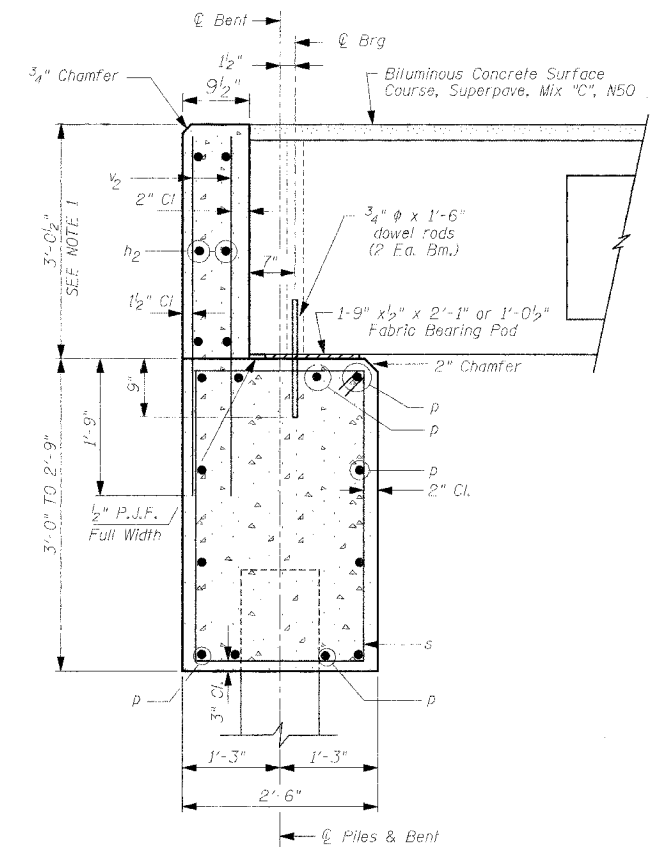
$f'_c = 3500$ psi
 $f_y = 60000$ psi



DETAIL OF REINFORCEMENT FOR METAL SHELLS AT ABUTMENTS

SECTION B-B

** Cost of reinforcement included with Furnishing Metal Pile Shells 12".



SECTION THRU ABUTMENT

QUANTITIES FOR ONE ABUTMENT

Concrete Structures	10.31 Cu Yd
Reinforcement Bars	1,380 Pound

	South	North
Furnishing Metal Pile Shells 12"	250 Ft	180 Ft
Driving and Filling Shells	250 Ft	180 Ft
Test Pile Metal Shells	1 Each	1 Each
Name Plates	1 Each	1 Each

BAR LIST FOR ONE ABUTMENT

Bar	No.	Size	Length	Shape
h_1	24	#5	5'-6"	—
h_2	6	#5	5'-6"	—
h_3	6	#4	24'-9"	—
p	12	#7	24'-9"	—
s	26	#4	9'-10"	□
u	8	#6	11'-1"	—
v	8	#4	4'-10"	—
v_1	8	#4	5'-6"	—
v_2	50	#4	4'-8"	—

NOTES

- The backwall and the portion of the wingwalls above the bonded construction joint shall be cast against the in place beams.
- Reinforcement bars shall conform to AASHTO M-31, or M-322, Grade 60.

DRAWN BY: LEL
CHECKED BY: LEL
APPROVED BY: REG
DATE: FEBRUARY, 2006

REVISIONS
DATE BY

FIELD BOOK:

SCALE:

JOB NO. 05E1556

SHEET 7 OF

ABUTMENT DETAILS
S.N. 069-3259
FARMER ROAD (TR-324)
OVER INDIAN CREEK
MORGAN COUNTY, ILLINOIS



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IL Design Firm Registration No. 184-000852