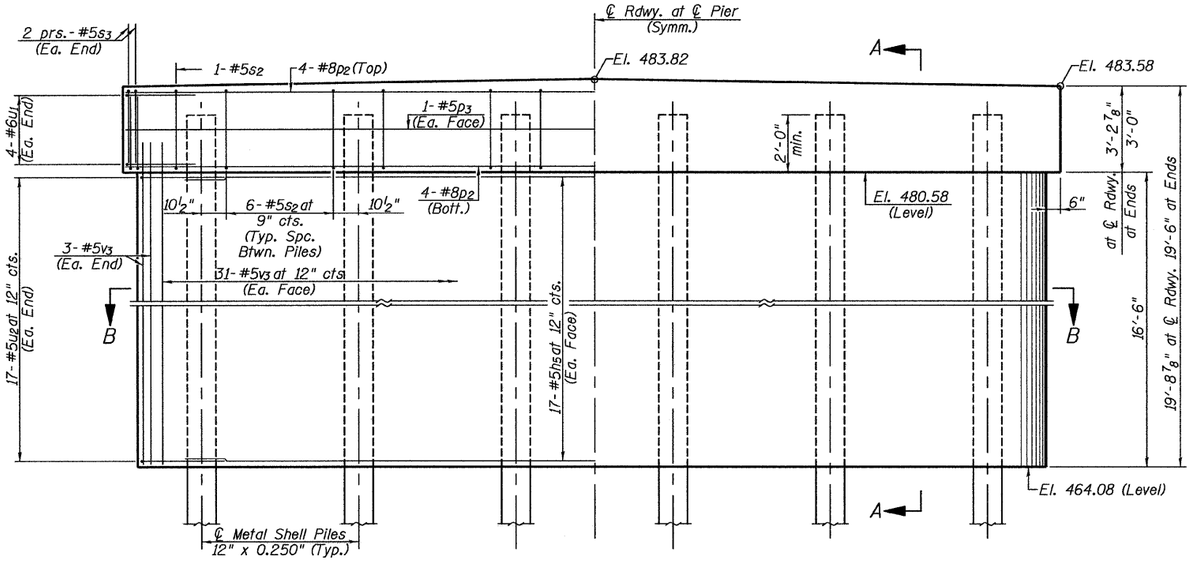
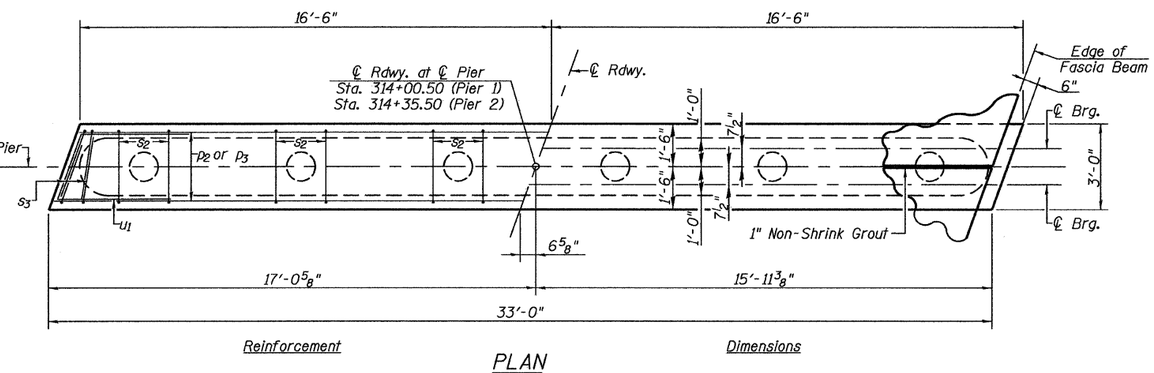


Reinforcement

ELEVATION

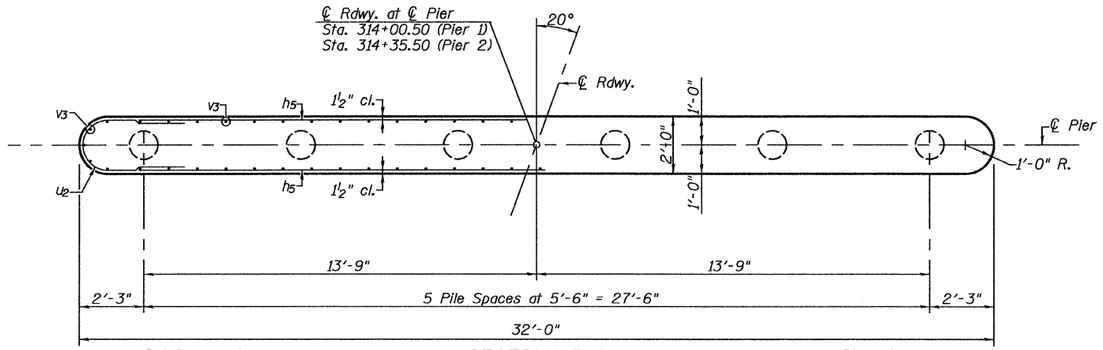
Dimensions



Reinforcement

PLAN

Dimensions



Reinforcement

SECTION B-B

Dimensions

PILE DATA

	Pier 1	Pier 2
Pile Type & Size:	Metal Shell 12"x0.25"	Metal Shell 12"x0.25"
Nominal Required Bearing:	302 Kips	302 Kips
Factored Resist. Available:	156 Kips	156 Kips
Estimated Pile Length:	49'	56'
Number of Production:	5	5
Number of Test Piles:	1	1

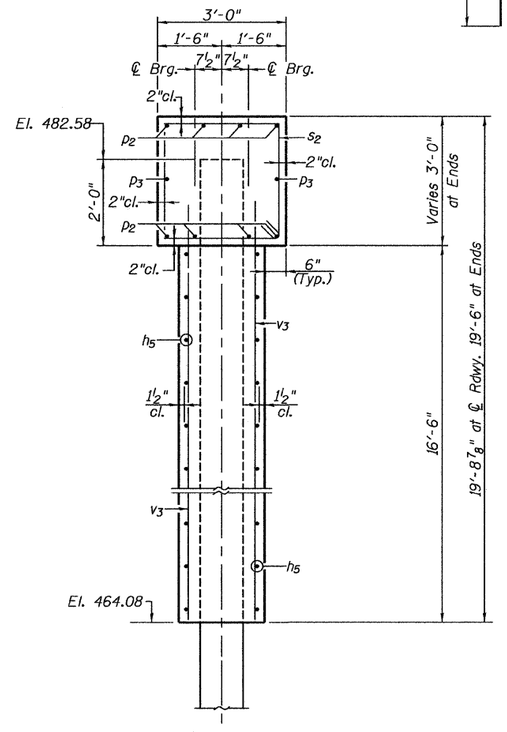
Notes:

The Test Pile shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

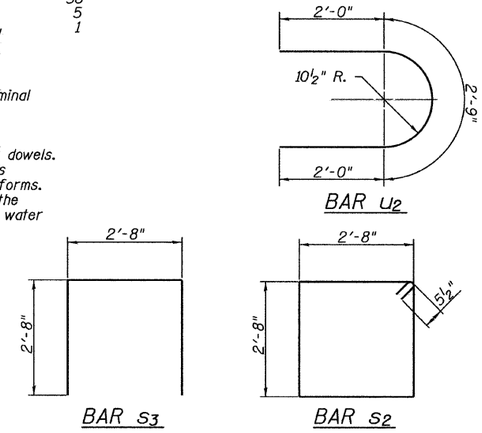
All exposed edges shall have standard ¾" chamfer except as noted.

Space reinforcement in pier caps to miss beam anchor dowels.

If a portion of the pier wall or concrete encasement is underwater, reinforcement may be placed underwater into forms. Concrete shall be tremled according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.



SECTION A-A



BILL OF MATERIAL
TWO PIERS

BAR	NO.	SIZE	LENGTH	SHAPE
h_5	68	#5	30'-0"	——
p_2	16	#8	32'-8"	——
p_3	4	#5	32'-8"	——
s_2	64	#5	11'-7"	⌐
s_3	16	#5	8'-0"	⊓
u_1	16	#6	10'-9"	⌐
u_2	68	#5	6'-9"	⊂
v_3	136	#5	18'-3"	——

Concrete Structures	Cu. Yd.	93.6
Reinforcement Bars	Pound	7895
Furnishing Metal Shell Piles 12" x 0.250"	Foot	525
Driving Piles	Foot	525
Test Pile Metal Shells	Each	2
Underwater Structure Excavation Protection - Location 1 (Pier 1)	Each	1
Underwater Structure Excavation Protection - Location 2 (Pier 2)	Each	1
Structure Excavation	Cu. Yd.	82

FILE NAME = $FILE1$

USER NAME = $USER$ | PLOT SCALE = $SCALE$ | PLOT DATE = $DATE$

DESIGNED - | DRAWN - | CHECKED - | DATE -

REVISED - | REVISED - | REVISED - | REVISED -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm
No. 184-001907

PIERS

SCALE: | SHEET NO. 13 OF 18 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
575	09-00074-00-BR	CASS	18	13
		CONTRACT NO. 93508		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		