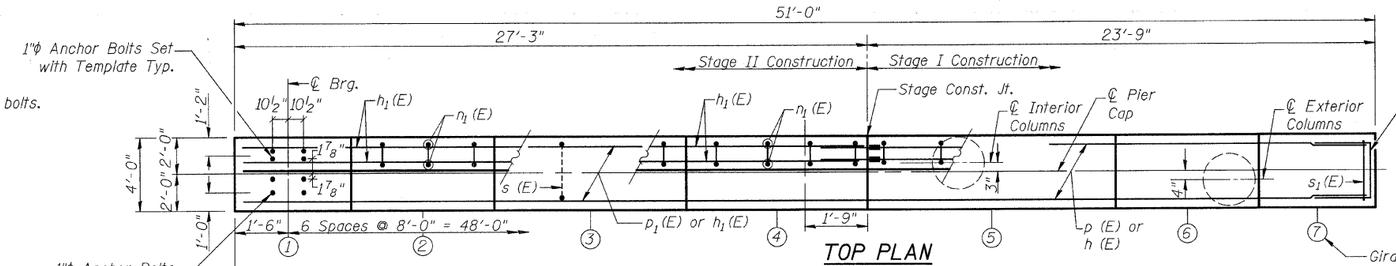
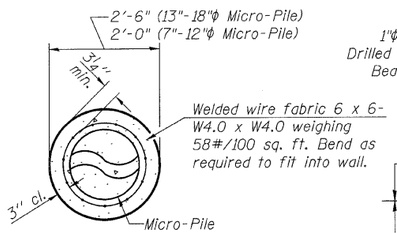
CONTRACT NO. 95585

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7369	08-00503-00-BR	MACON	24	18
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 12
17 SHEETS

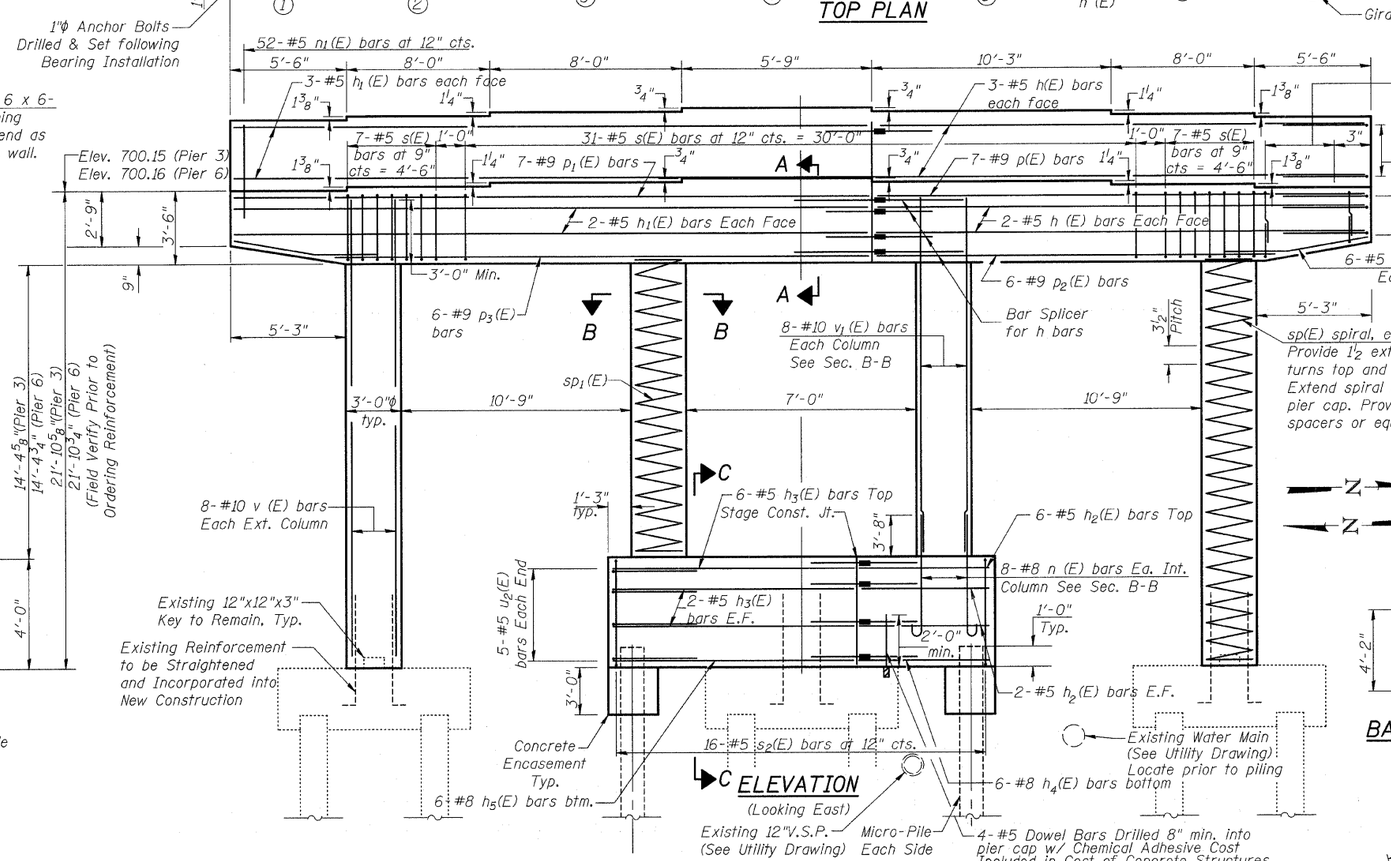
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.

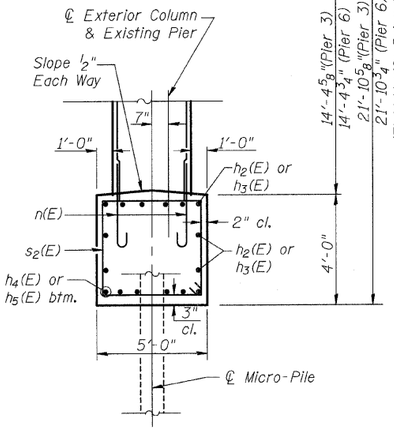




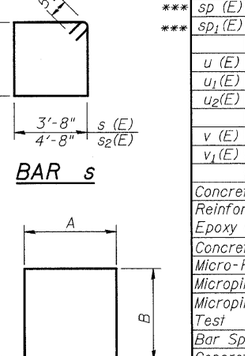
Note:
Forms for encasement may be omitted when soil conditions permit.

PILE ENCASEMENT DETAIL

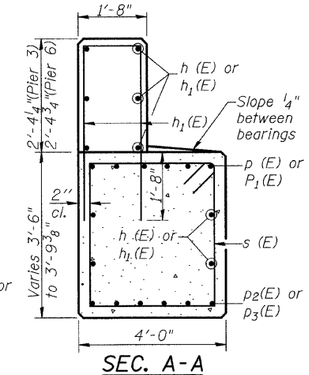




SECTION C-C



SEC. B-B



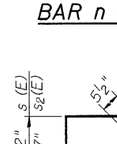
SEC. A-A

BILL OF MATERIAL

(2 Piers)

Bar	No.	Size	Length	Shape
h (E)	20	#5	23'-5"	
h1(E)	20	#5	26'-11"	
h2(E)	20	#5	5'-5"	
h3(E)	20	#5	8'-11"	
h4(E)	12	#8	5'-5"	
h5(E)	12	#8	8'-11"	
n (E)	32	#8	7'-4"	
n1(E)	104	#5	9'-8"	
p (E)	14	#9	23'-5"	
p1(E)	14	#9	26'-11"	
p2(E)	12	#9	18'-4"	
p3(E)	12	#9	21'-10"	
p4(E)	24	#5	7'-4"	
s (E)	90	#5	14'-7"	
s1(E)	64	#5	8'-6"	
s2(E)	32	#5	17'-5"	
*** sp (E)	4	#4	21'-10"	
*** sp1(E)	4	#4	14'-4"	
u (E)	12	#6	11'-7"	
u1(E)	12	#5	4'-7"	
u2(E)	20	#5	7'-11"	
v (E)	32	#10	24'-8"	
v1(E)	32	#10	17'-2"	
Concrete Structures		Cu. Yd.	129.2	
Reinforcement Bars, Epoxy Coated		Pound	19,260	
Concrete Sealer		Sq. Ft.	652	
Micro-Piles		Each	4	
Micropile Load Test		Each	2	
Micropile Proof Load Test		Each	4	
Bar Splicers		Each	78	
Concrete Encasement		Cu. Yd.	2.2	
Anchor Bolts		Each	112	

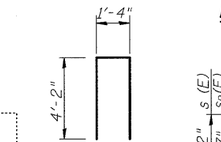
***Length is height of spiral.



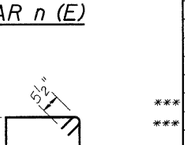
BAR n (E)

BAR n1(E)

BAR s



BARS p4(E)



BARS

A & B DIMENSIONS

Bar	A	B
s1(E)	3'-8"	2'-5"
u (E)	3'-7"	4'-0"
u1(E)	1'-3"	1'-8"
u2(E)	4'-7"	1'-8"

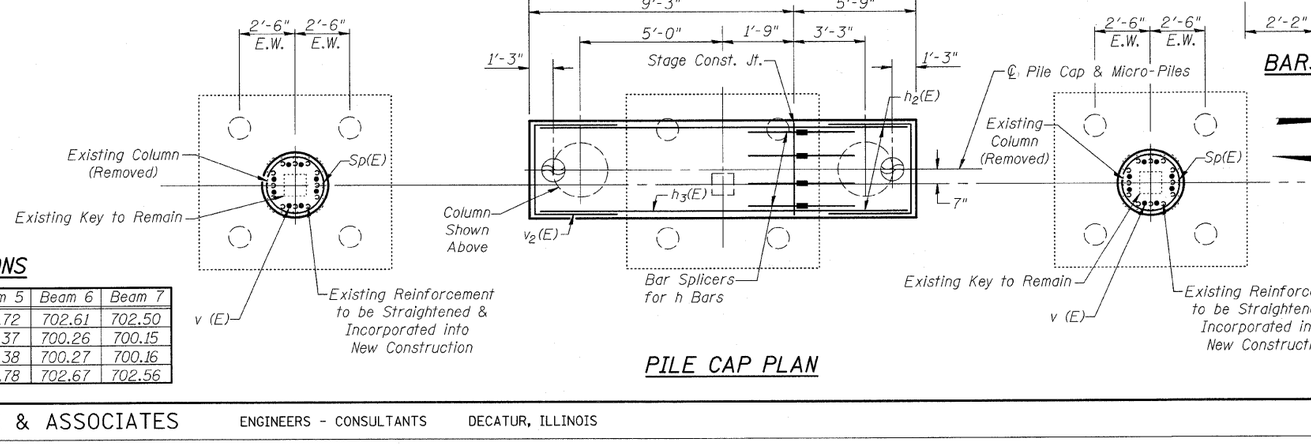
MICRO-PILE DATA

No. Production Piles: 4**
No. Non-Production Piles: 2*
Unfactored Capacity: 150k
Factored Capacity: 220k

* One Non-Production Pile shall be located within 15' of Pier 3 & Pier 6.
**Testing Load Frames can be Attached to Existing Columns.

BEAM SEAT ELEVATIONS

Girder	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7
Pier 3 West	702.50	702.61	702.72	702.78	702.72	702.61	702.50
Pier 3 East	700.15	700.26	700.37	700.43	700.37	700.26	700.15
Pier 6 West	700.16	700.27	700.38	700.44	700.38	700.27	700.16
Pier 6 East	702.56	702.67	702.68	702.84	702.78	702.67	702.56



PILE CAP PLAN

PIER 3 & 6

GARFIELD AVENUE OVER
CANADIAN NATIONAL RAILROAD
CITY OF DECATUR
MACON COUNTY
STA. 12+59.88
STRUCTURE NUMBER 058-6000

DATE: FEB. 2009

DRAWN BY: MLO
CHECKED BY: PBB