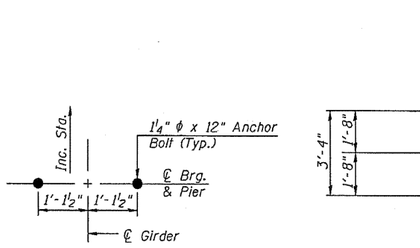
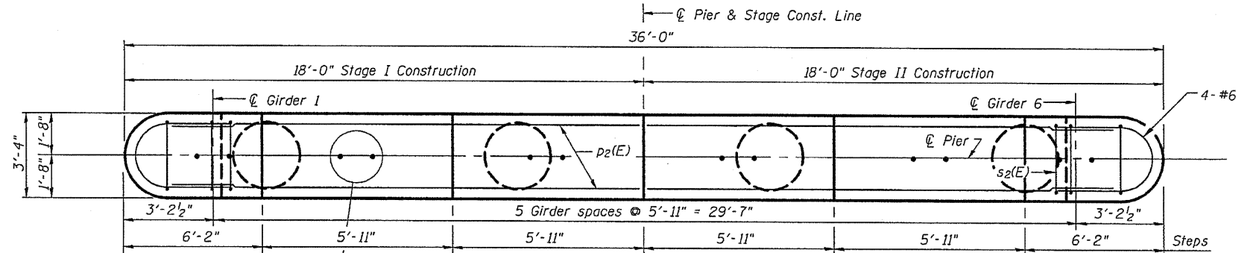
9/10/2010

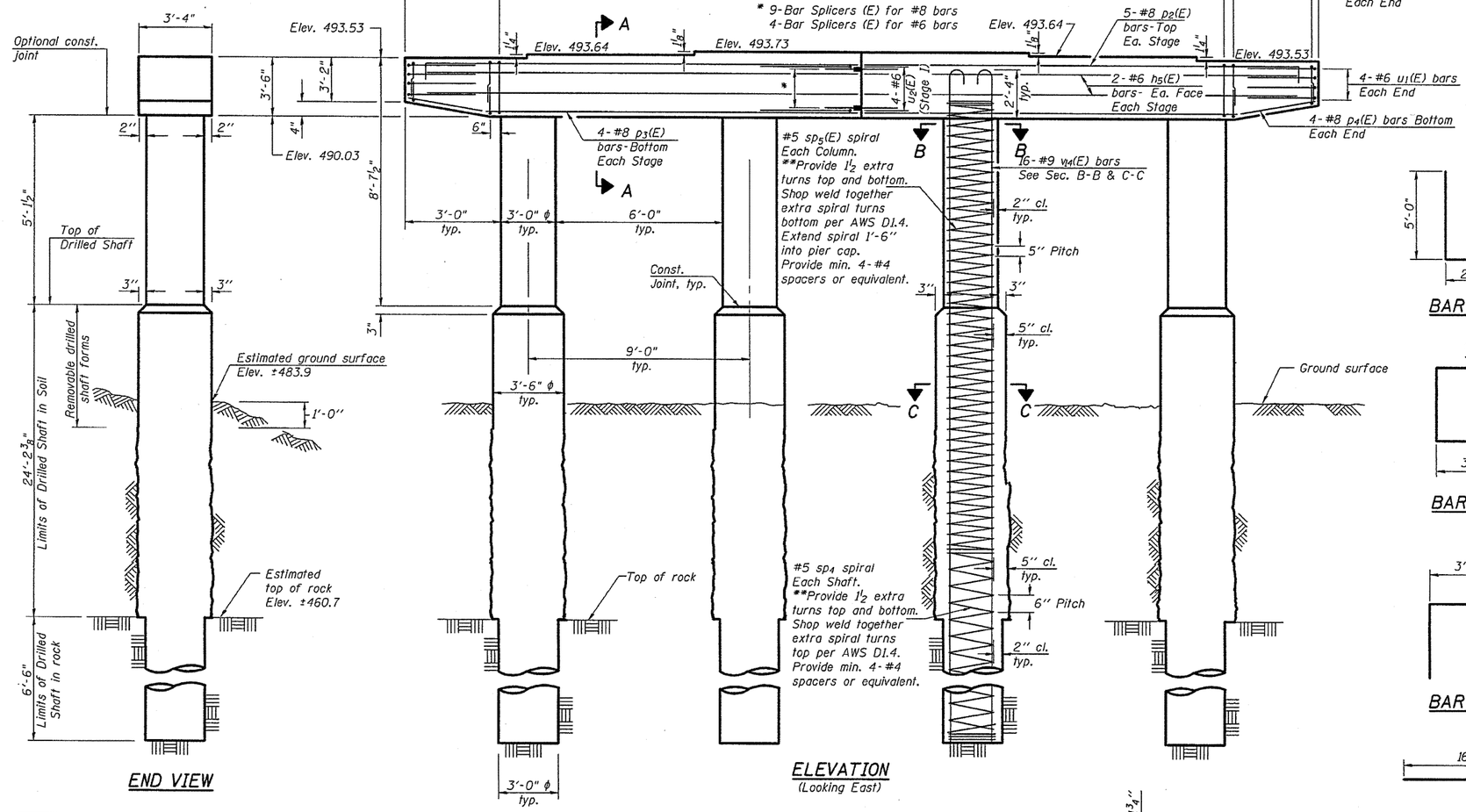
P:\06files\060245\021_W010.IL101_Lamoine\BRIDGE PLANS\PIERS.dgn



ANCHOR BOLT LOCATION DETAIL



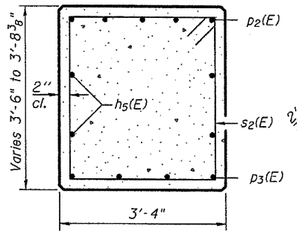
TOP PLAN



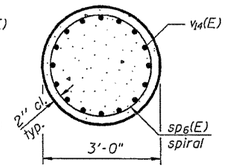
END VIEW

ELEVATION
(Looking East)

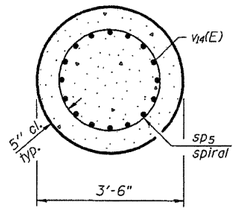
BAR v14(E)



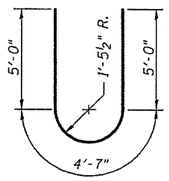
SECTION A-A



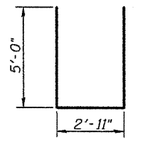
SECTION B-B



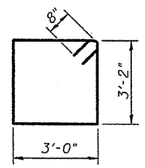
SECTION C-C



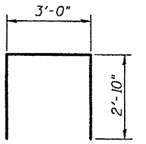
BAR u1(E)



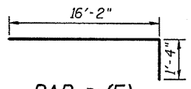
BAR u2(E)



BAR s2(E)



BAR s3(E)



BAR p2(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h5(E)	8	#6	16'-2"	
p2(E)	10	#8	17'-6"	
p3(E)	8	#8	15'-6"	
p4(E)	8	#8	2'-6"	
s2(E)	38	#6	13'-8"	
s3(E)	16	#6	8'-8"	
** sp4	4	#5	19'-1"	
** sp5(E)	4	#5	16'-6"	
u1(E)	8	#6	14'-7"	
u2(E)	4	#6	12'-11"	
v14(E)	64	#9	39'-5"	
Concrete Structures		Cu. Yd.	20.9	
Reinforcement Bars, Epoxy Coated		Pound	12,770	
Reinforcement Bars		Pounds	1,750	
Drilled Shaft in Soil		Cu. Yd.	34.5	
Drilled Shaft in Rock		Cu. Yd.	6.8	
Bar Splicers		Each	13	

Cast steps monolithically with cap.
Space cap reinforcement to miss anchor bolts.
Minimum lap for spirals = 2'-2"
** Length is height of spiral.

DESIGNED	RJP
CHECKED	ADL
DRAWN	RJP
CHECKED	ADL

**Allowable substitution:
Provide 1½ extra turns top and bottom with 135° standard hook into core at ends of spiral.

Note:
When splicing of spiral reinforcement is necessary, the spirals shall be provided with 1½ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate with a 135° standard hook.

PIER 4
S.N. 085-0514

SHEET NO.	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SHEET NO.34	713	120B-3	SCHUYLER	75	54
45 SHEETS			CONTRACT NO. 72A03		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

Klingner & Associates P.C.