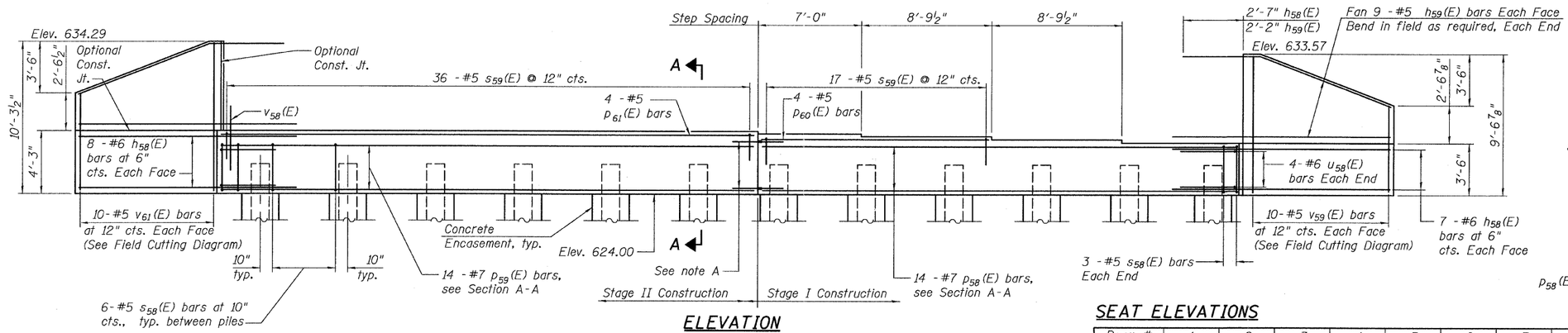
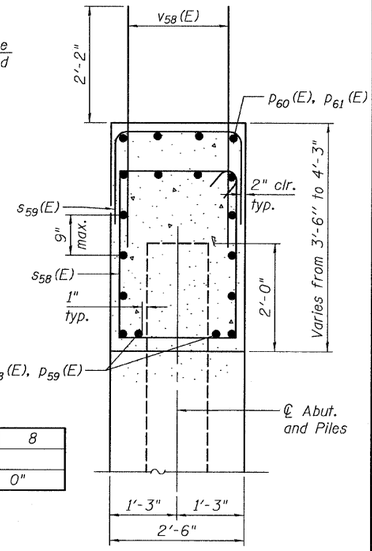
Notes:
1. Pour steps monolithically with cap.



ELEVATION
(Looking south)



SEC. A-A

SEAT ELEVATIONS

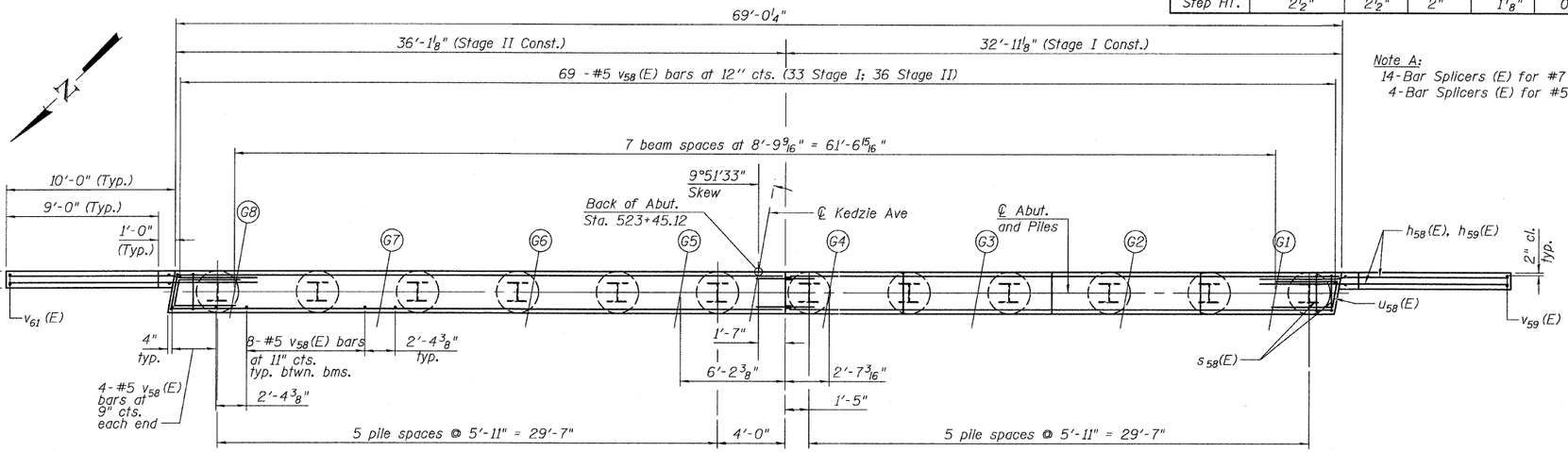
Beam #	1	2	3	4	5	6	7	8
Elevation	627.50	627.71	627.92	628.09	628.25			
Step HT.	2½"	2½"	2"	1⅞"	0"	0"	0"	

Note A:
14-Bar Splicers (E) for #7 p_{58}(E) bars
4-Bar Splicers (E) for #5 p_{60}(E) bars

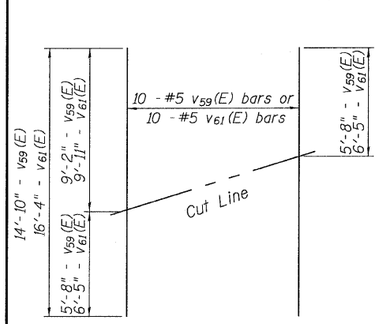
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_{58}(E)	30	#6	12'-6"	
h_{59}(E)	36	#5	12'-6"	
p_{58}(E)	14	#7	32'-3"	
p_{59}(E)	14	#7	35'-10"	
p_{60}(E)	4	#5	15'-6"	
p_{61}(E)	4	#5	35'-10"	
s_{58}(E)	72	#5	11'-7"	
s_{59}(E)	53	#5	6'-2"	
u_{58}(E)	8	#6	9'-11"	
v_{58}(E)	133	#5	4'-4"	
v_{59}(E)	10	#5	14'-10"	
v_{61}(E)	10	#5	16'-4"	
Structure Excavation		Cu. Yd.	241	
Concrete Structures		Cu. Yd.	32.0	
Reinforcement Bars, Epoxy Coated		Pound	5,460	
Furnishing Steel Piles HP 14x73		Foot	556	
Driving Piles		Foot	556	
Test Pile Steel HP 14x73		Each	1	
Pile Shoes		Each	12	
Concrete Encasement		Cu. Yd.	6.6	
Bar Splicers		Each	18	

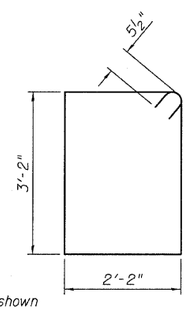
For details of Bar Splicers, see sheet 31 of 40.
For details of piles and Concrete Encasement, see sheet 32 of 40.



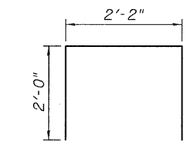
PLAN



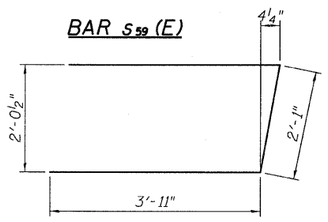
FIELD CUTTING DIAGRAM
Order v_{59}(E) & v_{61}(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s_{58}(E)



BAR s_{59}(E)



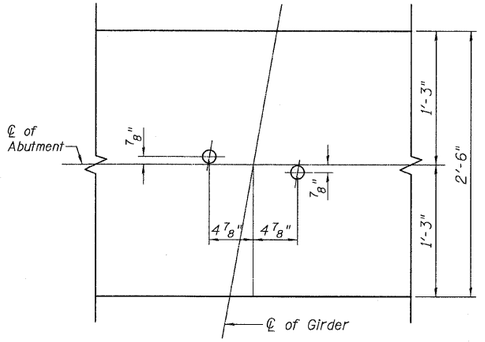
BAR u_{58}(E)

MIN. BAR LAPS

Bar	Lap
#4	2'-7"
#5	3'-3"
#6	3'-10"
#7	5'-2"

PILE DATA
Type: Steel HP 14x73 with Pile Shoes
Nominal Required Bearing: 578 kips
Factored Resistance Available: 318 kips
Est. Length: 50 ft. (Stage I)
51 ft. (Stage II)
No. Production Piles: 11
No. Test Piles: 1

Est. Top of Rock Elev. Stage I = 577.00
Est. top of Rock Elev. Stage II = 575.00



ANCHOR BOLT LAYOUT

TYLIN INTERNATIONAL	USER NAME =	DESIGNED - CME	REVISED -
		CHECKED - MDM	REVISED -
	PLOT SCALE =	DRAWN - LCP	REVISED -
	PLOT DATE = 5/5/2011	CHECKED - MDM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
STRUCTURE NO. 016-1196
SHEET NO. 28 OF 40 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1313.1B-1	COOK	162	89
		CONTRACT NO. 60K14		
	ILLINOIS FED. AID PROJECT			

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