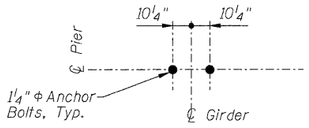
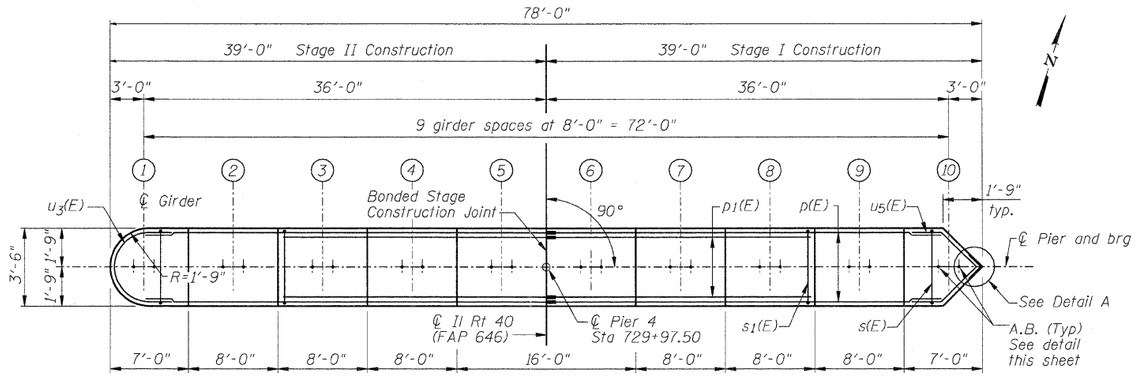


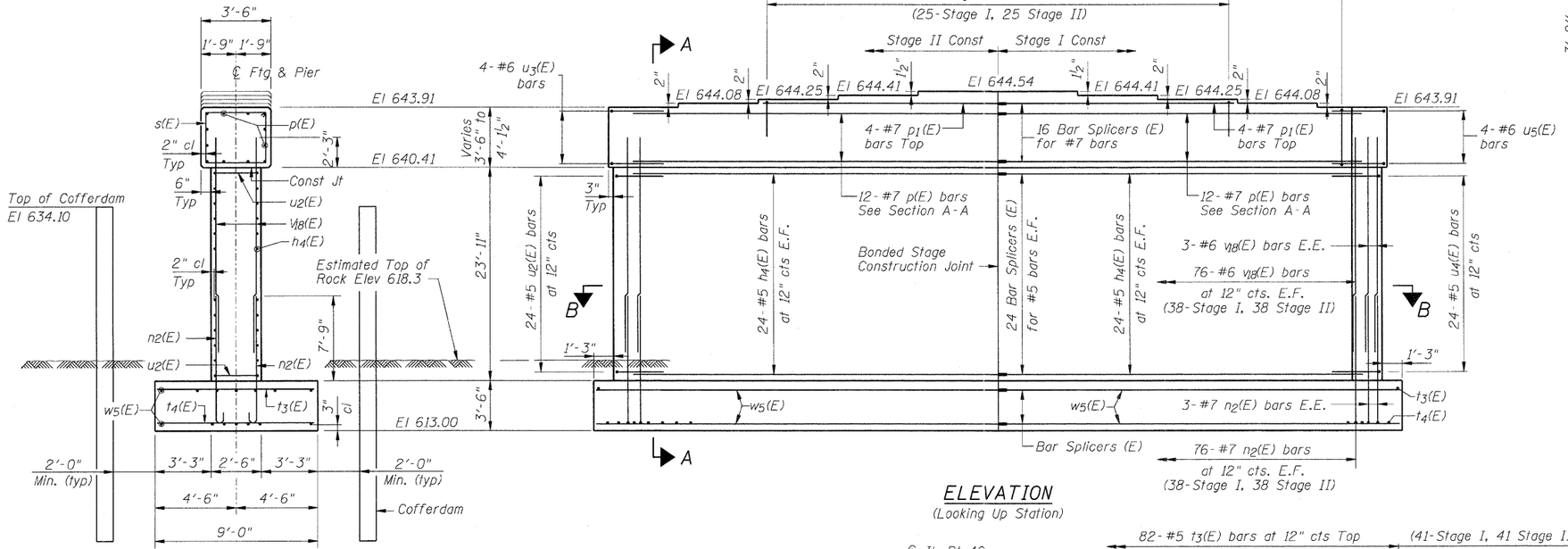
A.B. LAYOUT DETAIL

MIN. BAR LAP

#7 Bar = 5'-2"



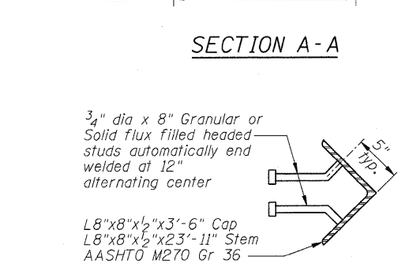
TOP PLAN



SECTION A-A

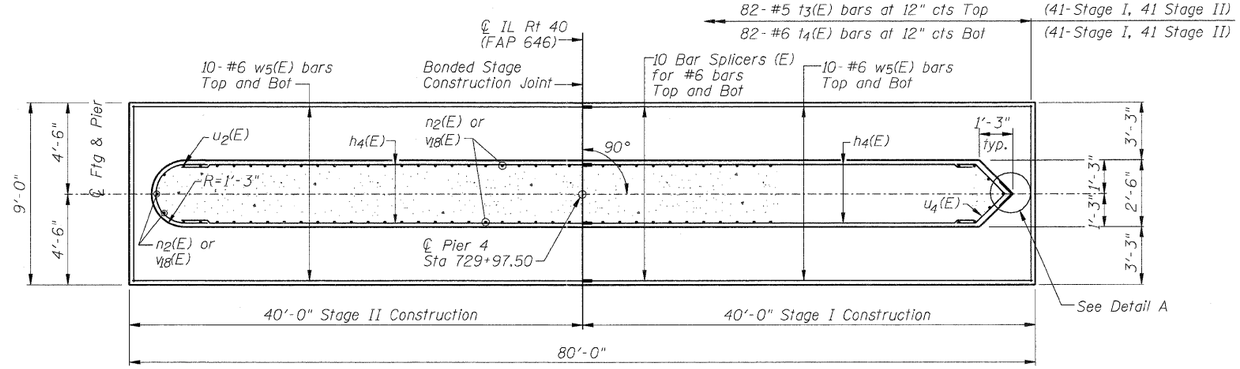
ELEVATION

(Looking Up Station)

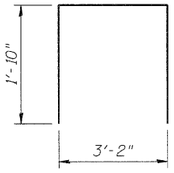


DETAIL A

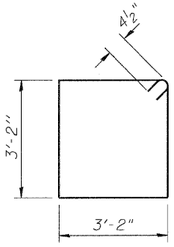
(Cost included with Concrete Structures)



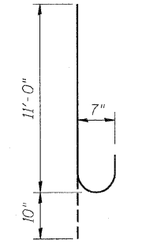
SECTION B-B



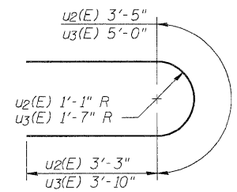
BAR s1(E)



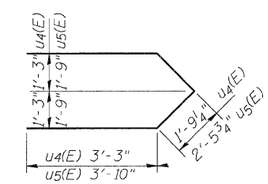
BAR s(E)



BAR n2(E)



BARS u2(E) & u3(E)



BARS u4(E) & u5(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h4(E)	96	#5	36'-9"	
n2(E)	158	#7	11'-10"	
p(E)	24	#7	37'-0"	
p1(E)	8	#7	23'-9"	
s(E)	76	#4	13'-5"	
s1(E)	50	#4	6'-10"	
t3(E)	82	#5	8'-8"	
t4(E)	82	#6	8'-8"	
u2(E)	24	#5	9'-11"	
u3(E)	4	#6	12'-8"	
u4(E)	24	#5	10'-1"	
u5(E)	4	#6	12'-8"	
v18(E)	158	#6	23'-7"	
w5(E)	40	#6	39'-9"	
Cofferdam Excavation		Cu. Yd.	63	
Cofferdam (Location-5)		Each	1	
Rock Excavation for Structures		Cu. Yd.	140	
Concrete Structures		Cu. Yd.	303.5	
Reinforcement Bars, Epoxy Coated		Pound	21060	

NOTES

Pour steps monolithically with cap.

For details of Bar Splicers, see sheet 82 of 103.

All edges shall have standard ¾" chamfer.

Space reinforcement in cap to miss anchor bolts.

Final design and dimensioning of cofferdams are the responsibility of the contractor.

Allowable Bearing Resistance, Qa = 10 ksf

Maximum Applied Service Bearing Pressure, Qmax = 8.83 ksf

FILE NAME = 0264B80-sht-pier4.dgn	USER NAME = dwozniarski	DESIGNED - ACB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER NO. 4 STRUCTURE NO. 098-0115	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JMB	REVISED -			646	1B-2	WHITESIDE	257	177
	PLOT SCALE = 4.0000 ' / IN.	DRAWN - RLK	REVISED -					CONTRACT NO. 64B80		
	PLOT DATE = 7/18/2011	CHECKED - ACB	REVISED -		SHEET NO. 74 OF 103 SHEETS			ILLINOIS FED. AID PROJECT		