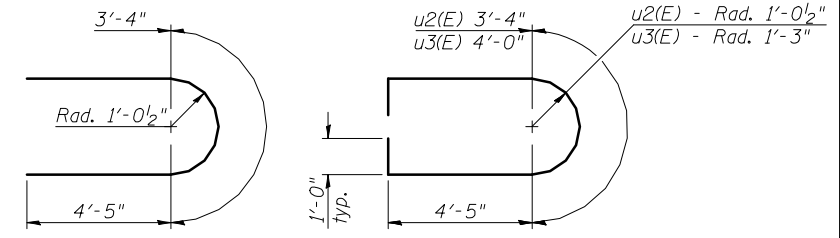


TOP PLAN



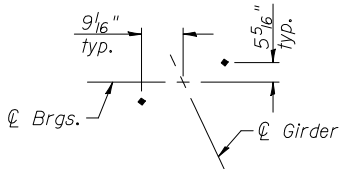
BAR u1(E)

BARS u2(E) & u3(E)

BAR s3(E)

BAR s4(E)

BAR s6(E)

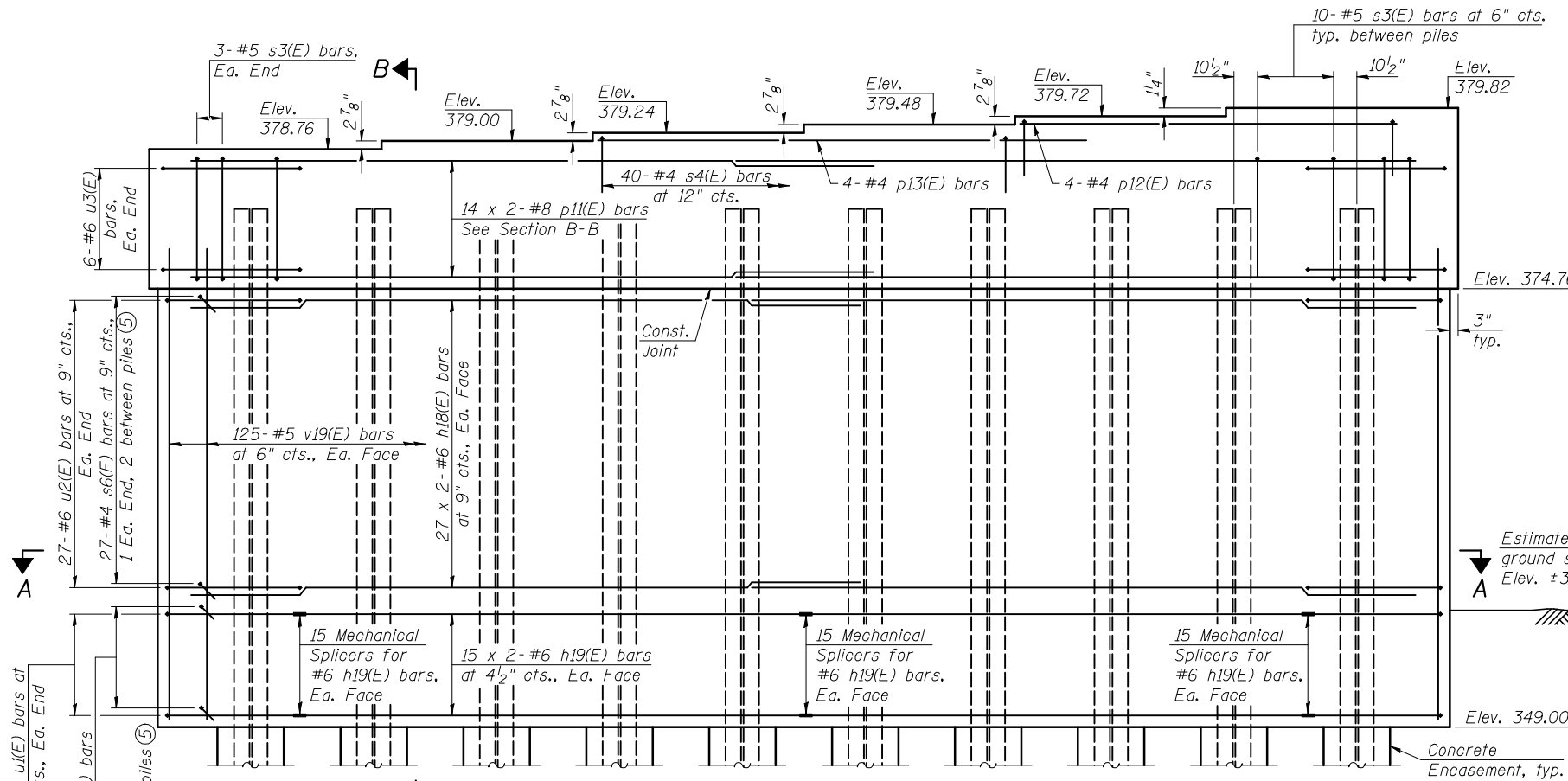


ANCHOR BOLT LAYOUT ④

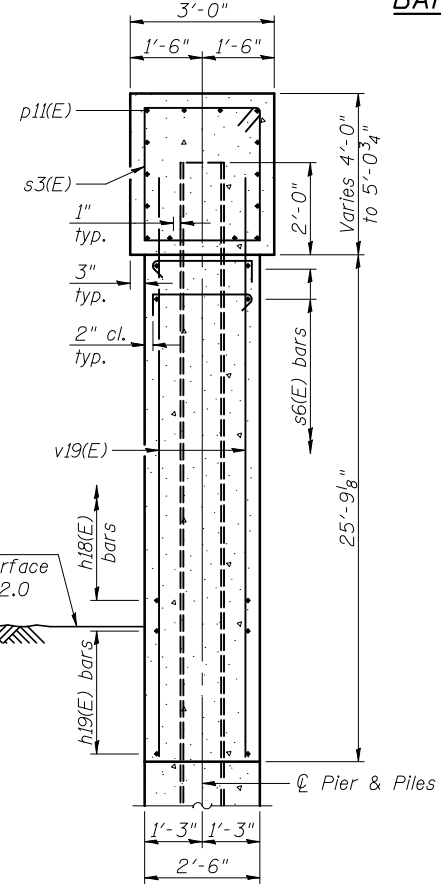
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h18(E)	108	#6	31'-9"	—
h19(E)	60	#6	25'-1"	—
p11(E)	28	#8	33'-4"	—
p12(E)	4	#4	19'-4"	—
p13(E)	4	#4	22'-1"	—
s3(E)	96	#5	13'-7"	□
s4(E)	40	#4	6'-8"	□
s5(E)	-	-	-	-
s6(E)	1,110	#4	3'-3"	┌
u1(E)	30	#6	12'-2"	U
u2(E)	54	#6	14'-2"	U
u3(E)	12	#6	14'-10"	U
v19(E)	250	#5	27'-6"	—
Structure Excavation		Cu. Yd.	48	
Concrete Structures		Cu. Yd.	176.6	
Concrete Encasement		Cu. Yd.	5.5	
Reinforcement Bars, Epoxy Coated		Pound	23,100	
Furnishing Steel Piles HP14x73		Foot	819	
Driving Piles		Foot	819	
Test Pile Steel HP14x73		Each	1	
Mechanical Splicers		Each	90	

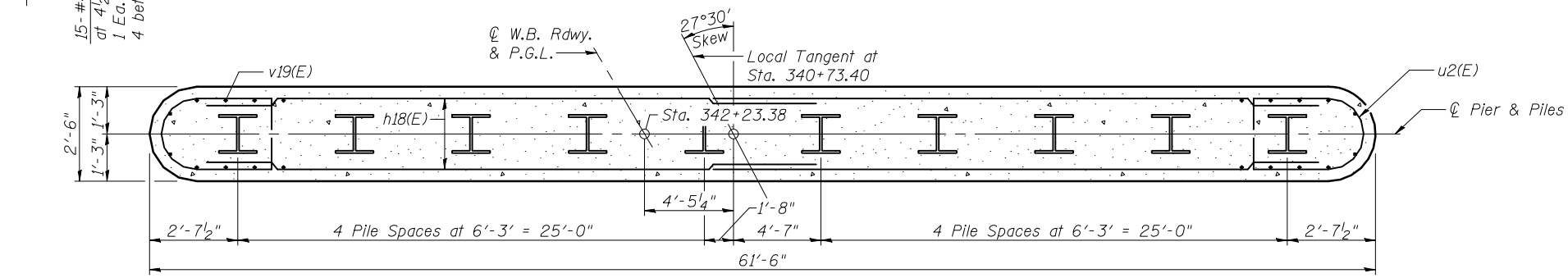
MIN. BAR LAP
 #8 bar = 7'-8"
 #6 bar = 4'-5"



ELEVATION
(Looking West)



SECTION B-B



SECTION A-A

PILE DATA

Type: Steel HP14x73
 Nominal Required Bearing: 578 kips
 Factored Resistance Available: 320 kips
 Est. Length: 91'
 No. Production Piles: 9
 No. Test Piles: 1

- Notes:
- ① Pour steps monolithically with cap.
 - ② For details of Mechanical Splicers, see sheet 48 of 53.
 - ③ For details of piles and Concrete Encasement, see sheet 47 of 53.
 - ④ Space reinforcement in cap to miss anchor bolts.
 - ⑤ Alternate s6(E) bars end for end as shown in Section B-B.
 - ⑥ Bars indicated thus 14 x 2-#8 etc. indicates 14 lines of bars with 2 lengths per line.



USER NAME =	DESIGNED - JAD	REVISED -
PLOT SCALE =	CHECKED - DGL	REVISED -
PLOT DATE =	DRAWN - JAD	REVISED -
	CHECKED - MAG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 4 DETAILS
STRUCTURE NO. 039-0076 (W.B.)

SHEET NO. 46 OF 53 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(12-11B-1)	JACKSON	200	158
CONTRACT NO. 78056				

ILLINOIS FED. AID PROJECT