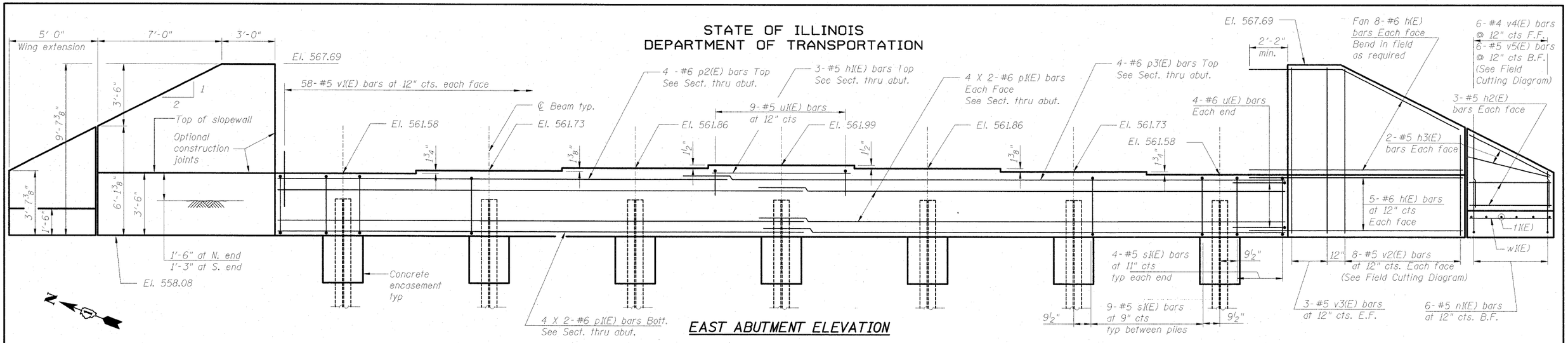
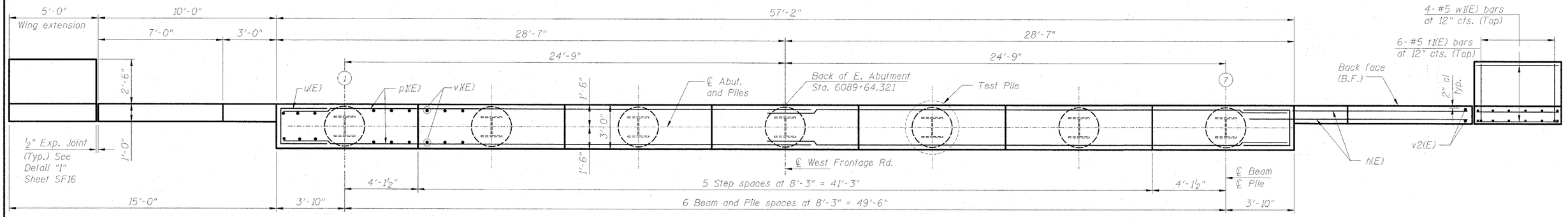
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

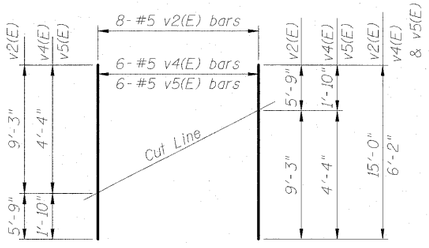


EAST ABUTMENT ELEVATION



PILE DATA (EAST ABUTMENT)

Type:	HP 14 x 89 w/ Pile Shoes
Nominal Required Bearing:	705 kips
Allowable Resistance Available:	244 kips
Est. Length:	24 ft.
No. Production Piles:	7 (Includes test pile)
No. Test Piles:	1

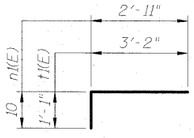


FIELD CUTTING DIAGRAM

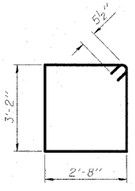
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.

Order v4 (E) or v5 (E) full length. Cut as shown and use remainder of bars in other end.

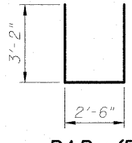
DESIGNED	MJL
CHECKED	PMH
DRAWN	RJ
CHECKED	BKB



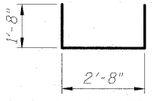
BARS n1(E) & t1(E)



BAR s2(E)



BAR u(E)

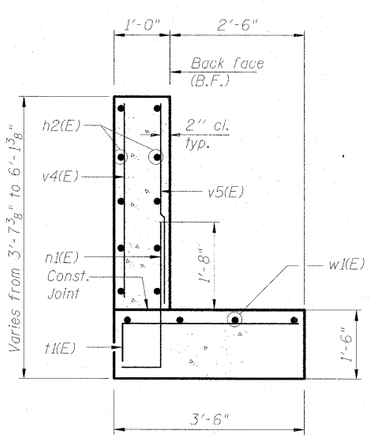


BAR u1(E)

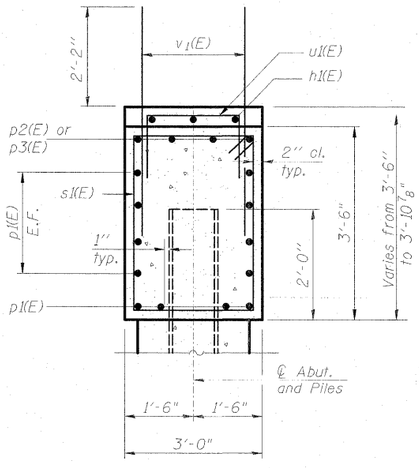
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	52	#6	12'-10"	
h1(E)	3	#5	8'-0"	
h2(E)	12	#5	4'-8"	
h3(E)	8	#5	5'-3"	
n1(E)	6	#5	3'-9"	
p1(E)	24	#6	29'-6"	
p2(E)	4	#6	26'-0"	
p3(E)	4	#6	34'-0"	
s1(E)	62	#5	12'-7"	
t1(E)	6	#5	4'-3"	
u(E)	8	#6	8'-10"	
u1(E)	9	#5	6' 0"	
v1(E)	116	#5	4'-4"	
v2(E)	16	#5	15'-0"	
v3(E)	12	#5	9'-3"	
v4(E)	6	#4	6' 2"	
v5(E)	6	#5	6'-2"	
w1(E)	8	#5	4'-8"	
Reinforcement Bars, Epoxy Coated		Pound	4,570	
Concrete Structures		Cu. Yd.	31.1	
Concrete Encasement		Cu. Yd.	3.8	
Furnishing Steel Piles HP14X89		Foot	144	
Driving Piles		Foot	144	
Pile Shoes		Each	7	
Test Pile Steel HP14X89		Each	1	

PLAN



SECTION THRU WING EXTENSION



SECTION THRU ABUTMENT

MINIMUM BAR LAP

(Abutment)

Top bars	Other bars
#6 bar = 2'-10"	#6 bar = 2'-0"

Notes:
- Pour steps monolithically with cap.
- For details of Bar Splicers, see Sht. SF22.
- For details of piles and Concrete Encasement, see Sht. SF21.
- Bars indicated thus 2 x 2-#6 etc. indicates 2 lines of bars with 2 lengths per line.

EAST ABUTMENT
STRUCTURE NO. 099-0347

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

SHEET NO. SF17	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SF24 SHEETS	55	92-2HB-2B-1	WILL	756	519
		SN 099-0347	CONTRACT NO. 60F12		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		