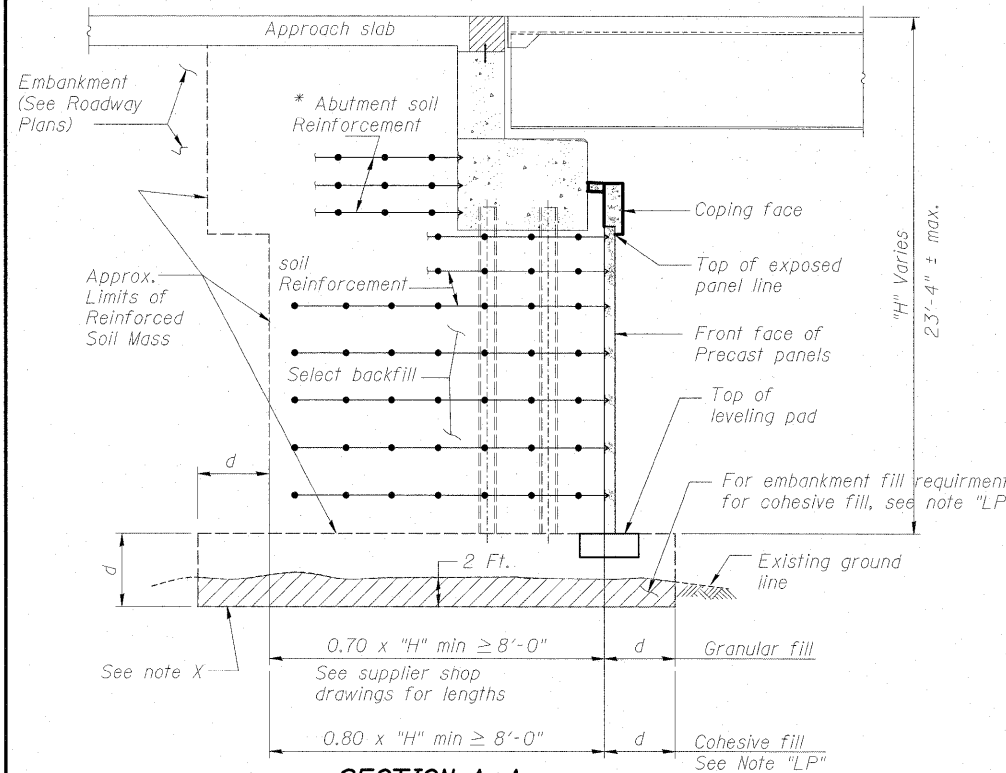


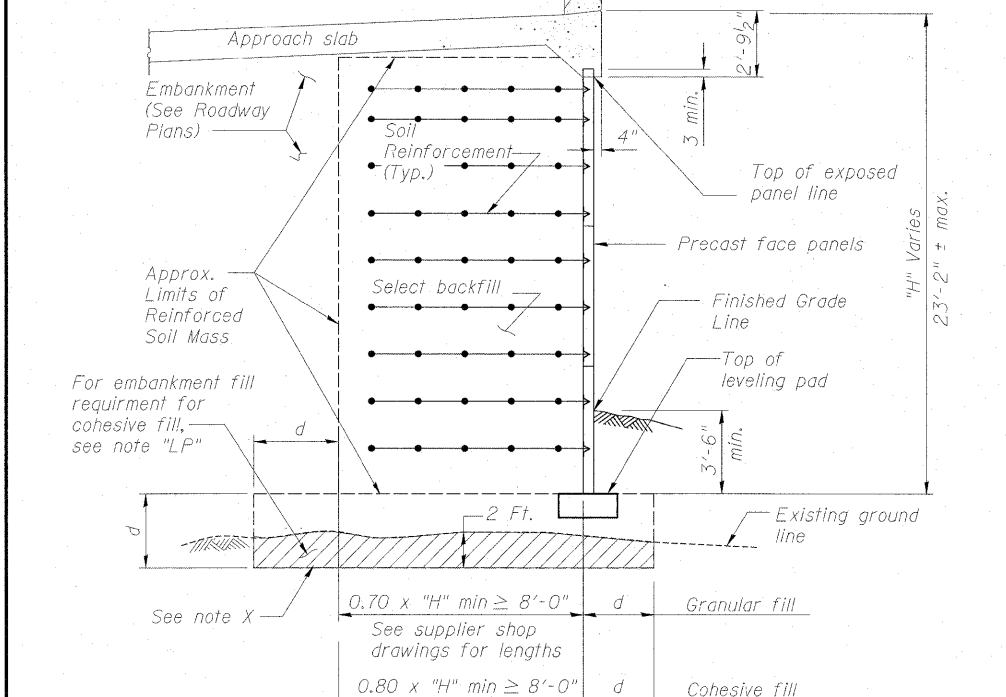
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BILL OF MATERIAL



SECTION A-A

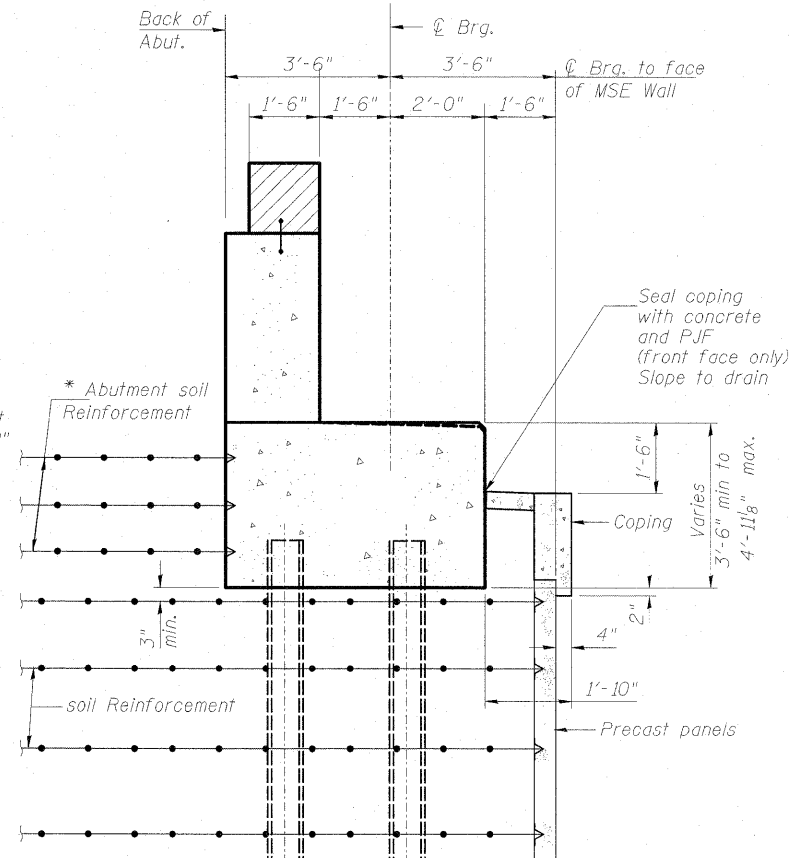
* The MSE wall supplier shall design the abutment soil reinforcement to resist a horizontal force of 4 kips/ft. of abutment.



SECTION B-B

Note "LP":
If the leveling pad is placed on top of cohesive fill material, the embankment fill below the leveling pad shall achieve an unconfined compressive strength of 1.5 tons per square foot, which may require that the degree of compaction is higher than 95% of the maximum dry density according to AASHTO T99. The embankment material should be placed in layers no more than 8 inches in loose thickness. The dynamic cone penetrometer reading must be equal to or less than 1.3 inches per blow, when testing the penetration rate in accordance with the IDOT Geotechnical Manual.

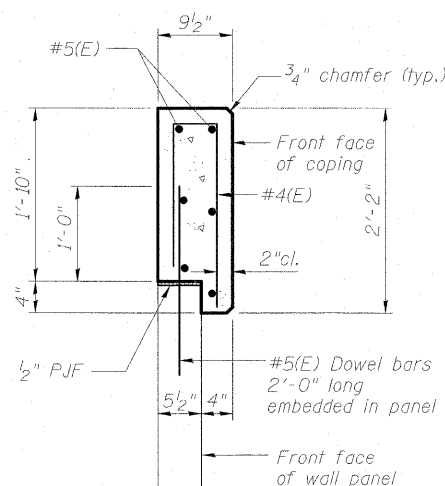
Note X: Dimension d is based on $Q_u=1.5$ tons/sq. Ft. and moisture content less than 30%.



SECTION THRU ABUTMENT

Showing Soil Reinforcement and Coping with Precast panels

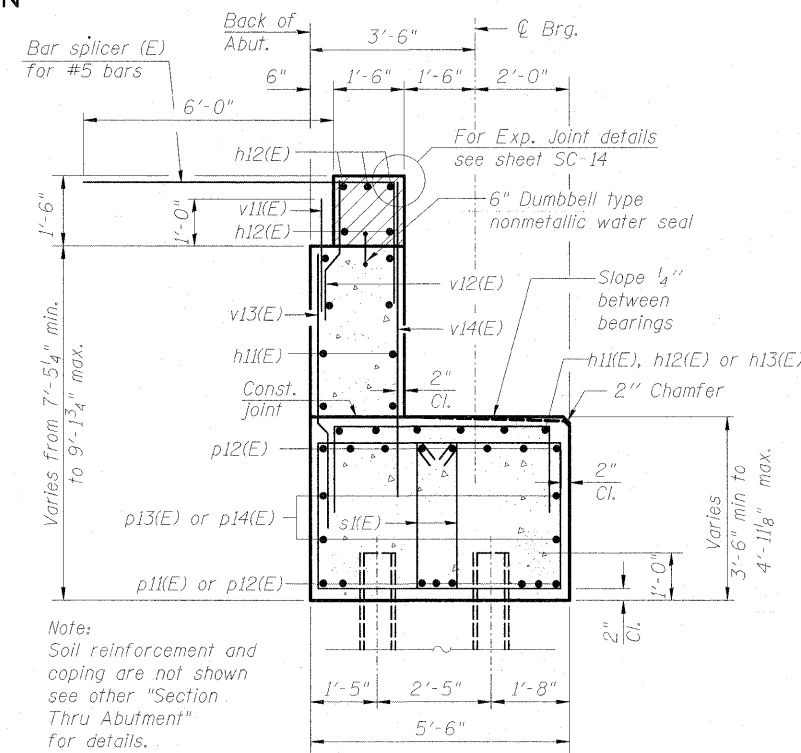
Note X: Dimension d is based on $Q_u=1.5$ tons/sq. Ft. and moisture content less than 30%.



COPING DETAILS

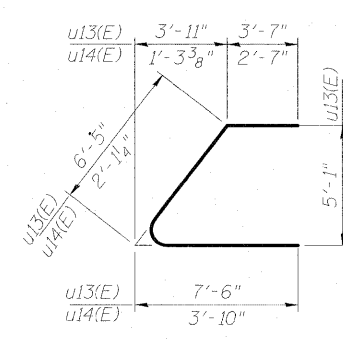
Cost of Coping including Reinforcement in the Coping is included in the pay item "Mechanically Stabilized Earth Retaining Wall".

Removal of unsuitable material.

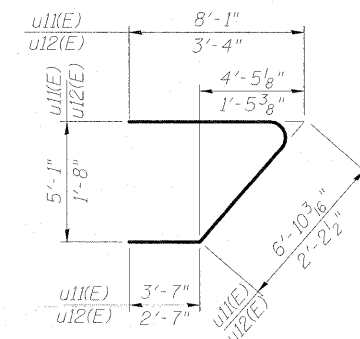


SECTION THRU ABUTMENT

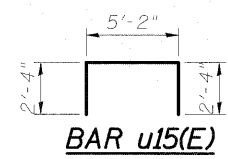
Note: Soil reinforcement and coping are not shown see other "Section Thru Abutment" for details.



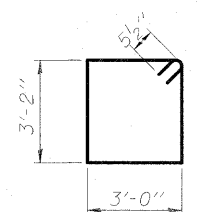
BARS u13(E) & u14(E)



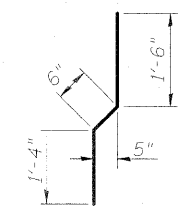
BARS u11(E) & u12(E)



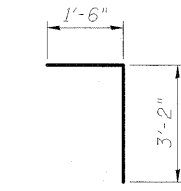
BAR u15(E)



BARS s11(E)



BAR v12(E)



BAR u16(E)

Bar	No.	Size	Length	Shape
h11(E)	24	#5	27'-5"	
h12(E)	15	#6	27'-8"	
h13(E)	15	#5	15'-4"	
h14(E)	5	#5	9'-6"	
p11(E)	8	#8	23'-6"	
p12(E)	40	#8	32'-4"	
p13(E)	4	#7	23'-6"	
p14(E)	8	#7	37'-5"	
s11(E)	138	#5	13'-3"	
u11(E)	4	#6	18'-6"	
u12(E)	4	#5	8'-2"	
u13(E)	5	#6	17'-5"	
u14(E)	4	#5	8'-7"	
u15(E)	54	#5	9'-10"	
u16(E)	40	#5	4'-8"	
v11(E)	78	#5	2'-10"	
v12(E)	78	#5	3'-4"	
v13(E)	78	#5	6'-2"	
v14(E)	78	#5	7'-4"	
Concrete Structures	Cu. Yd.		88.2	
Reinforcement Bars, Epoxy Coated	Pound		10,950	
Furnishing Steel Piles HP12X53	Foot		506	
Driving Piles	Foot		506	
Test Pile	Each		1	
Steel HP12X53 Bar Splicers	Each		62	
Concrete Sealer	Sq. Ft.		273	
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.		1,942	
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.		155	

Notes:
At Section thru Abutment showing hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure. Space reinforcement in cap to miss anchor bolts. Pour steps monolithically with cap. Quantity of concrete in end post included with Concrete Superstructure on sheet SC-13. For details of Bar Splicers, see sheet SC-35. For details of piles, see sheet SC-34. Quantity of embankment fill is included with roadway quantities.

**WEST ABUTMENT DETAILS
STRUCTURE NO. 099-0348**

DESIGNED	MJL
CHECKED	MGB
DRAWN	RJ
CHECKED	BKB

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

SHEET NO. SC-26 SHEETS SC-37	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) R-6	WILL	756	552
	CONTRACT NO. 60F12				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			