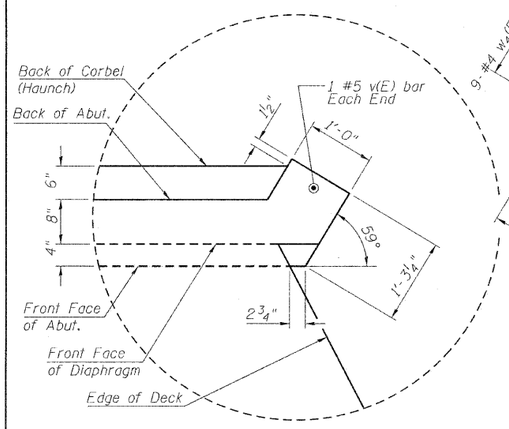
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

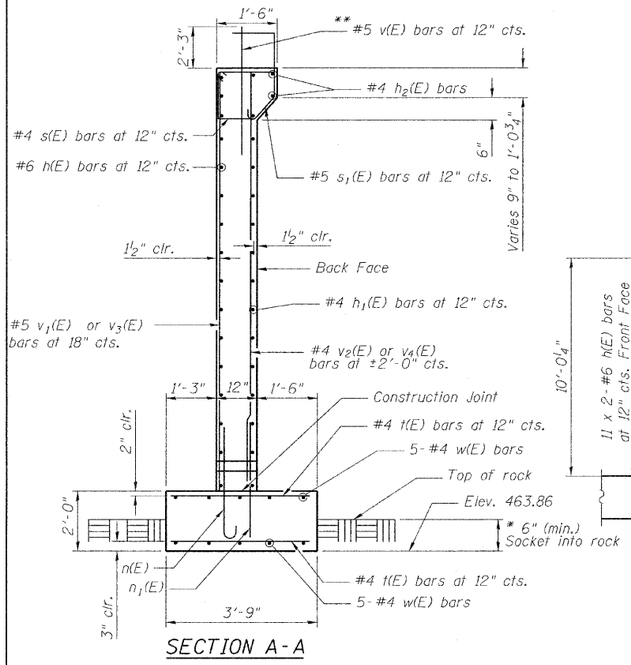
MINIMUM BAR LAP

#4 (E) bar = 1'-4"
#4 (E) bar = 1'-10" (h_1(E) only)
#5 (E) bar = 1'-8"
#6 (E) bar = 2'-9"

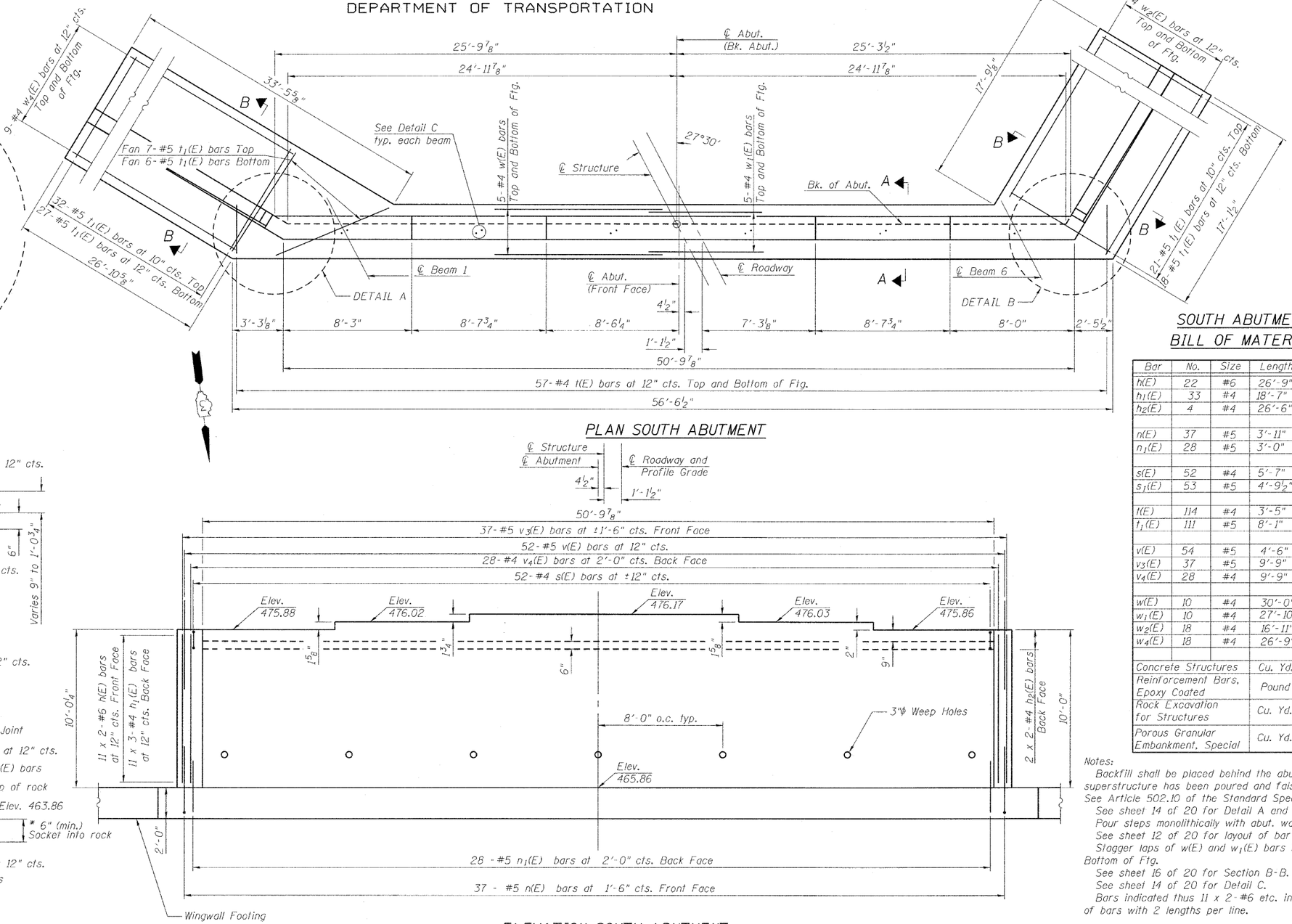


DETAIL B

(Includes view of diaphragm poured integrally with slab.)



SECTION A-A



PLAN SOUTH ABUTMENT

ELEVATION SOUTH ABUTMENT

(Dimensions at Front Face of Abutment)

SOUTH ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	22	#6	26'-9"	
h_1(E)	33	#4	18'-7"	
h_2(E)	4	#4	26'-6"	
n(E)	37	#5	3'-11"	
n_1(E)	28	#5	3'-0"	
s(E)	52	#4	5'-7"	
s_1(E)	53	#5	4'-9½"	
t(E)	114	#4	3'-5"	
t_1(E)	111	#5	8'-1"	
v(E)	54	#5	4'-6"	
v_3(E)	37	#5	9'-9"	
v_4(E)	28	#4	9'-9"	
w(E)	10	#4	30'-0"	
w_1(E)	10	#4	27'-10"	
w_2(E)	18	#4	16'-11"	
w_4(E)	18	#4	26'-9"	
Concrete Structures		Cu. Yd.	34.2	
Reinforcement Bars, Epoxy Coated		Pound	4,980	
Rock Excavation for Structures		Cu. Yd.	14	
Porous Granular Embankment, Special		Cu. Yd.	92	

Notes:
Backfill shall be placed behind the abutment after the superstructure has been poured and falsework removed. See Article 502.10 of the Standard Specifications.
See sheet 14 of 20 for Detail A and Bar Details.
Pour steps monolithically with abut. wall.
See sheet 12 of 20 for layout of bar s_1(E).
Stagger laps of w(E) and w_1(E) bars in Top and Bottom of Fig.
See sheet 16 of 20 for Section B-B.
See sheet 14 of 20 for Detail C.
Bars indicated thus 11 x 2-#6 etc. indicates 11 lines of bars with 2 lengths per line.

SOUTH ABUTMENT STRUCTURE NO. 050-0250

DESIGNED	CMF
CHECKED	TMM
DRAWN	RNH
CHECKED	TMM

* Bottom of footing shall be placed at or below the elevation shown.

** Space v(E) bars to miss locations of bearings.

Maximum applied service bearing pressure, Q_{max} = 5850 psf

McDonough-Whitlow, P.C.
Consulting Engineers & Land Surveyors
138 East Wood Street
Hillsboro, IL 62049
Phone: 217.532.9233
Fax: 217.532.6300
PROFESSIONAL DESIGN No. 184-002754

SHEET NO. 15
20 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1279	6R, B	LASALLE	190	117
		CONTRACT NO.		66547
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		