



DESIGN STRESSES

$f_y = 60,000$ psi
 $f'_c = 3,500$ psi
 Max. Soil Pressure under footing 3175 psf

LOADING HS 20-44 & ALT.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	1280	#11	14'-4"	
a2	350	#4	10'-3"	
d	50	#4	5'-6"	
h	264	#7	31'-6"	
h1	234	#8	30'-2"	
h2	182	#8	30'-3"	
h3	38	#4	9'-6"	
h4	4	#6	11'-5"	
h5	8	#6	12'-2"	
h6	38	#4	15'-0"	
n(E)	54	#6	6'-4"	
n1(E)	50	#5	4'-0"	
t	140	#4	6'-8"	
v	1194	#7	9'-6"	
v2	22	#4	8'-8"	
v3	22	#4	7'-1"	
v4	10	#4	5'-9"	
v5	18	#4	11'-4"	
w	24	#5	14'-10"	
w1	24	#5	9'-4"	
Concrete Box Culverts	Cu. Yd.		595	
Reinforcement Bars, Epoxy Coated	Pound		730	
Reinforcement Bars	Pound		176,260	

NOTES
 Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
 Bars indicated thus 11 x 12-#7 etc. indicates 11 lines of bars with 12 lengths per line.
 Reinforcement bars designated (E) shall be epoxy coated.

SECTION THRU HEADWALL
 (Up Stream End Only)

CORNER DETAIL