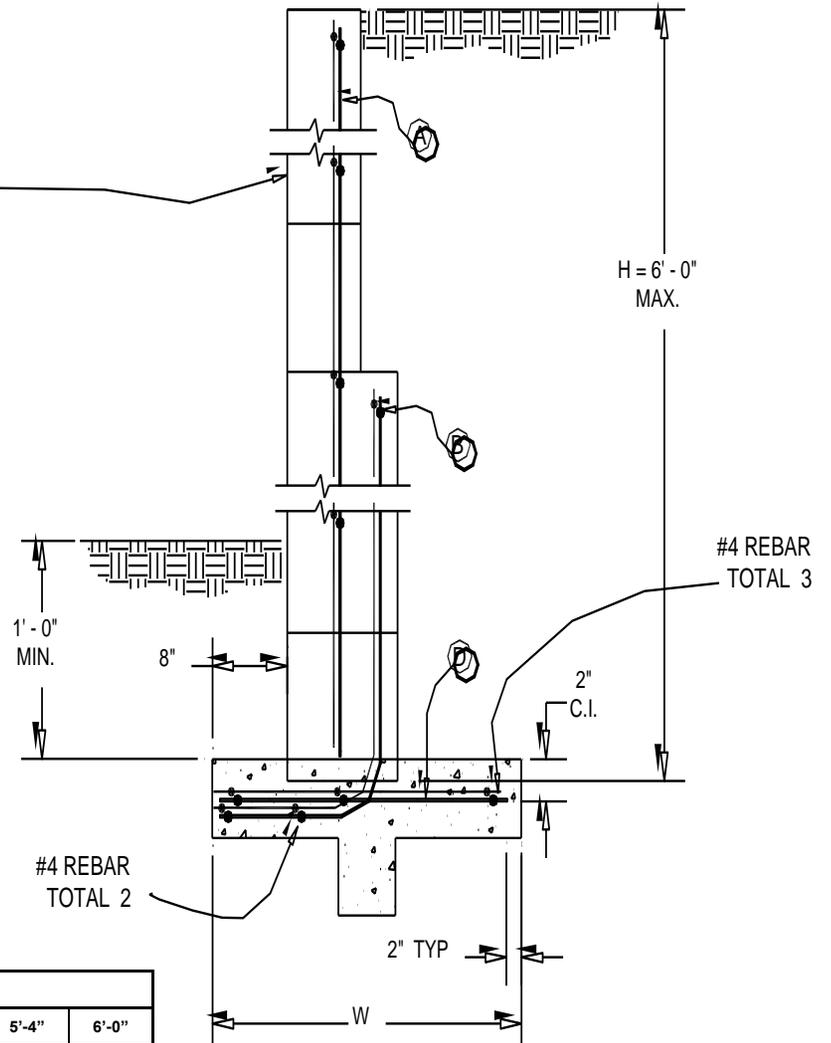


MASONRY CONSTRUCTION



TYPE A WALL						
Type	Design H	3'-4"	4'-0"	4'-8"	5'-4"	6'-0"
A	W	3'-2"	3'-6"	3'-10"	4'-2"	4'-6"
A	A				#4@16	#4@16
A	B				#4@16	#5@16
A	C	#4@16	#4@16	#5@16		
Footing Conc. Cu. Ft./L.F.		2.9	3.2	3.4	3.7	4.0
0Reinf. Lbs. / L.F.		8.5	8.9	11.6	12.8	15.0

All Retaining Walls must be Reviewed by the City Engineer

AMERICAN PUBLIC WORKS ASSOCIATION
SOUTHERN CALIFORNIA CHAPTER –
STANDARD PLAN 618-0

Detail No.

RW-1



City of Needles
STANDARD DETAIL

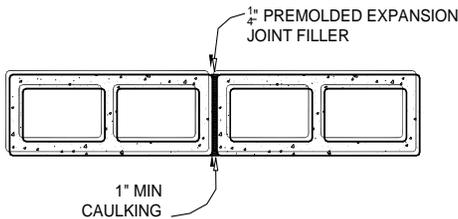
Retaining Wall Detail – TYPE A & B

Revised

09/01/2007

Detail No.

RW-1



SECTION A - A

PLACE EXPANSION JOINTS AT 40'-0" CC MAX.

H = 6' - 0"

H = 4' - 8"

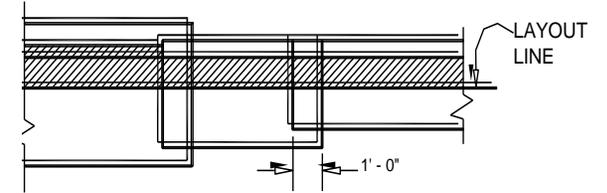
H = 3' - 4"



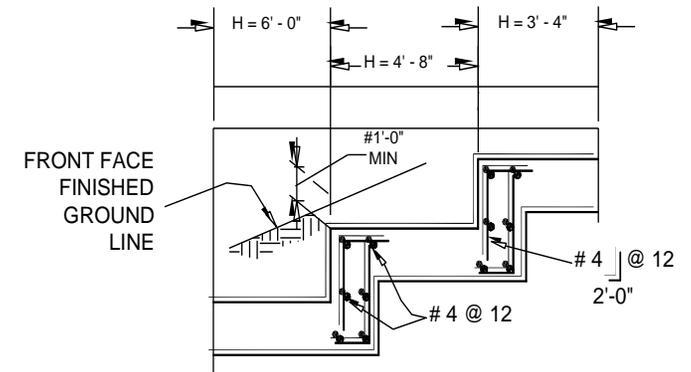
OMIT MORTAR FROM VERTICAL JOINT IN FIRST COURSE ABOVE PROPOSED GROUND LINE AT 32: CENTERS FOR WEEP HOLES. FILL ALL CELLS WITH CONCRETE

EXTEND CAULKING 6" BELOW FINISHED GRADE

TYPE B WALL						
Type	Design H	3'-4"	4'-0"	4'-8"	5'-4"	6'-0"
B	W	2'-8"	3'-0"	3'-4"		4'-0"
B	A				#4@16	#4@16
B	B				#4@16	#5@16
B	C	#4@16	#4@16	#5@16		
B	D	#4@16	#4@16	#4@16	#4@16	#5@16
Footing Conc. Cu. Ft / L.F.		2.5	2.8	3.0	3.3	3.6
Reinf. Lbs. / L.F.		9.1	9.6	11.8	12.9	15.4



PLAN FOOTING STEP DETAILS



ELEVATION

Design Criteria:

Masonry: $f_m = 500$ psi $f'_m = 1500$ psi $f_s = 24,000$ psi $n = 20$
 Reinf. Conc: $f_c = 1300$ psi $f'_c = 3250$ psi $f_s = 24,000$ psi $n = 10$
 Earth = 120 pcf.

2' Surcharge

Equivalent fluid pressure = 36 pcf for determination of toe pressure.
 27 pcf for determination of heel pressure

2:1 Unlimited Surcharge: Earth pressure determined from Rankine's

Formula $\phi = 33^\circ - 42^\circ$.

Minimum allowable soil bearing capacity of foundation material = 2000 psf.

Detail No.

RW-1



City of Needles
STANDARD DETAIL

Retaining Wall Detail – TYPE A & B

Revised

09/01/2007

Detail No.

RW-1