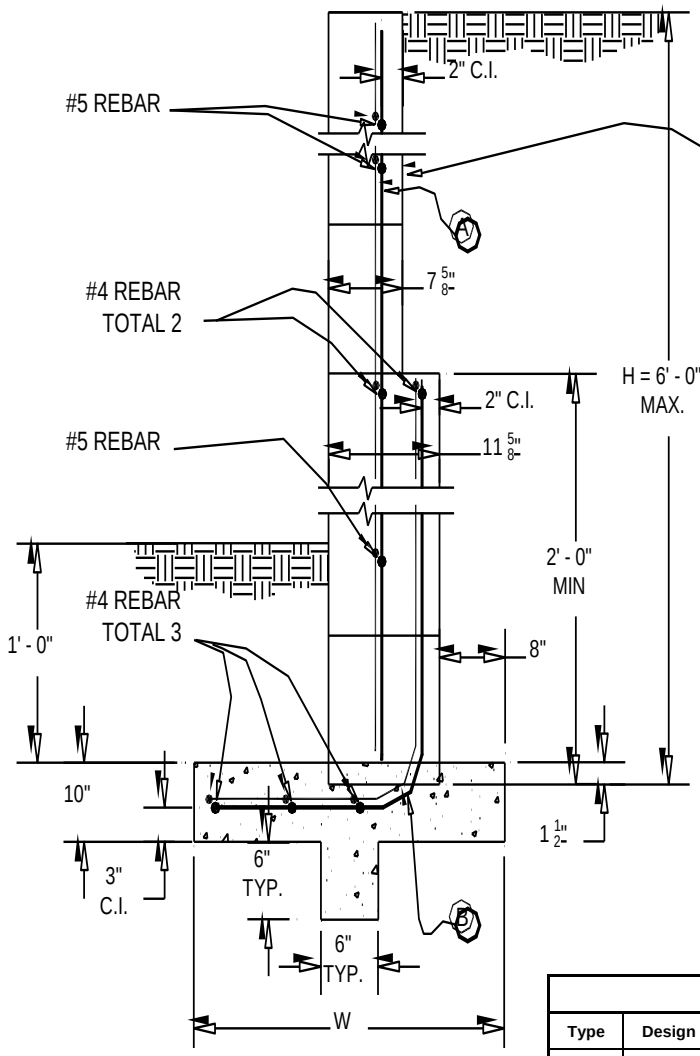
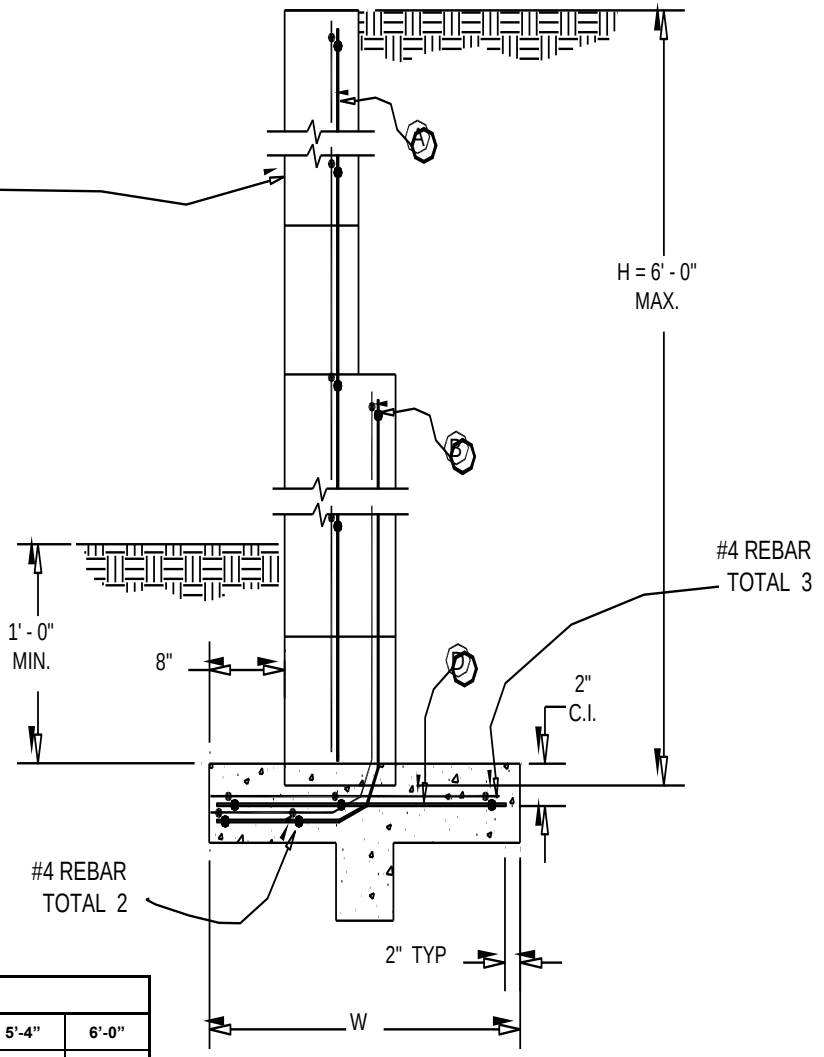


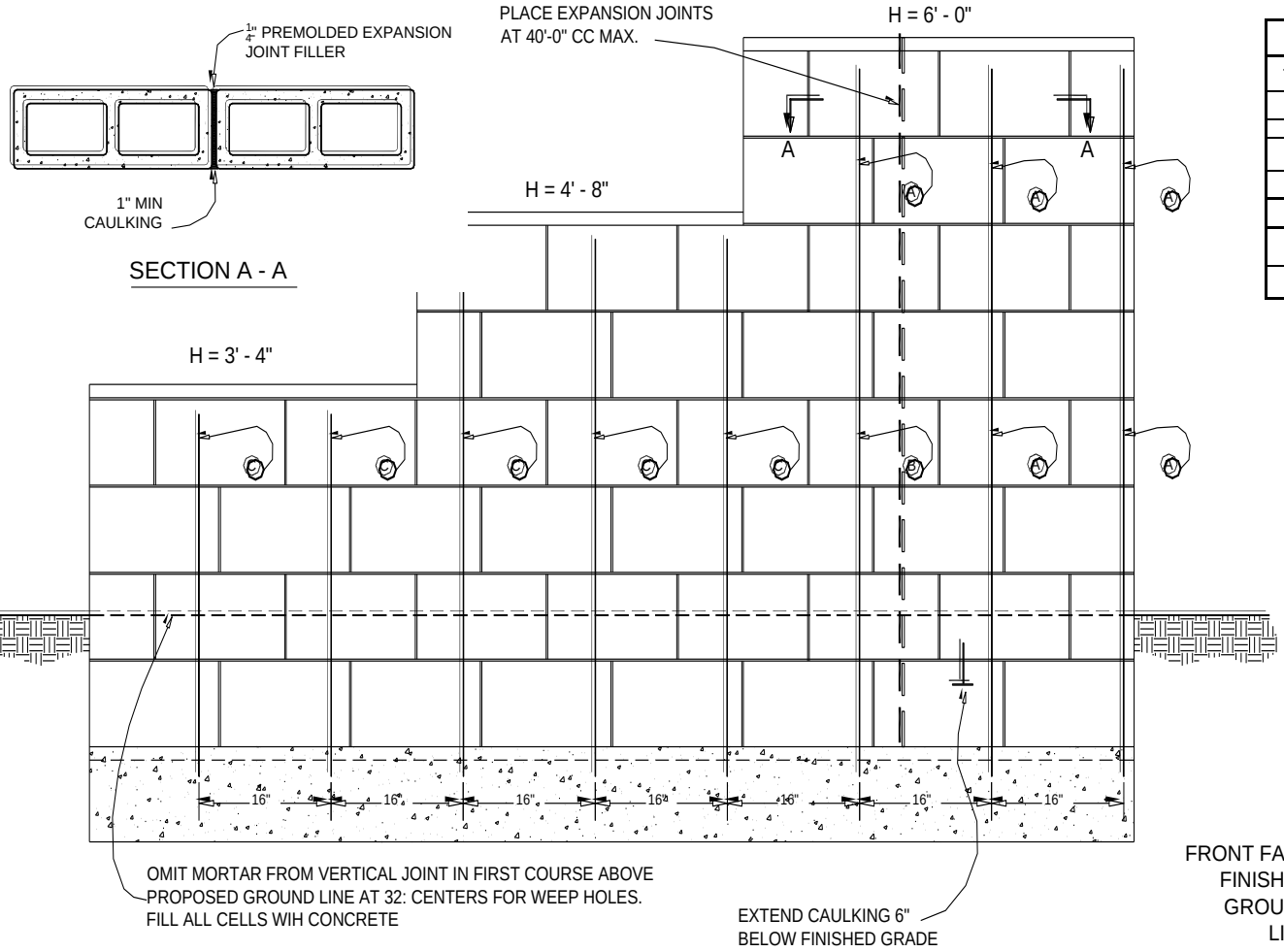


TYPE A WALL						
Type	**Design H**	**3'-4"**	**4'-0"**	**4'-8"**	**5'-4"**	**6'-0"**
A	W	3'-2"	3'-6"	3'-10"	4'-2"	4'-6"
A	A				#4@16	#4@16
A	B				#4@16	#5@16
A	C	#4@16	#4@16	#5@16		
Footing Conc. Cu. Ft / L.F		2.9	3.2	3.4	3.7	4.0
0Reinf. Lbs. / L.F.		8.5	8.9	11.6	12.8	15.0

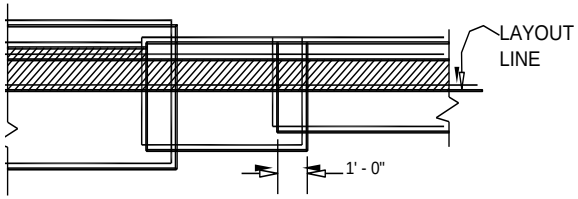
All Retaining Walls must be Reviewed by the City Engineer

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

Detail No.			*Revised*	*Detail No.*
RW-1	City of Needles **STANDARD DETAIL**	**Retaining Wall Detail – TYPE A & B**	*09/01/2007*	**RW-1**

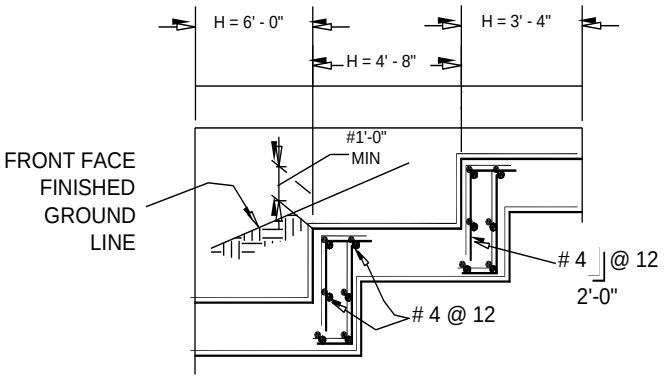


TYPE B WALL						
Type	**Design H**	**3'-4"**	**4'-0"**	**4'-8"**	**5'-4"**	**6'-0"**
B	W	2'-8"	3'-0"	3'-4"	3'-8"	4'-0"
B	A				#4@16	#4@16
B	B				#4@16	#5@16
B	C	#4@16	#4@16	#5@16		
B	D	#4@16	#4@16	#4@16	#4@16	#5@16
Footing Conc. Cu. Ft / L.F		2.5	2.8	3.0	3.3	3.6
Reinf. Lbs. / L.F.		9.1	9.6	11.8	12.9	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 $\varnothing = 33^{\circ} - 42'$.
Minimum allowable soil bearing capacity of foundation material = 2000 psf.

Detail No.			*Revised*	*Detail No.*
RW-1	City of Needles **STANDARD DETAIL**	**Retaining Wall Detail – TYPE A & B**	*09/01/2007*	**RW-1**