

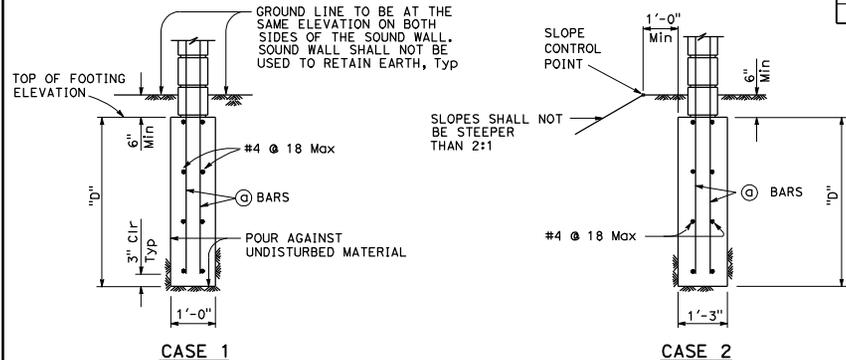
H=6'-0" THRU H=10'-0"

H=12'-0" THRU H=16'-0"

For details not shown, see H=6'-0" thru H=10'-0".

TYPICAL SECTION

⊕ Full mortar bed at bottom of wall



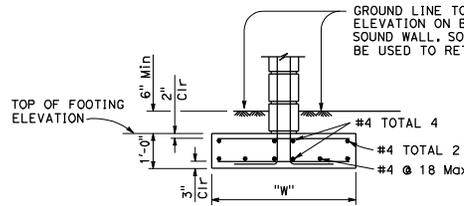
CASE 1

For details not shown, see Case 2. Level ground (±10%) on both sides of the sound wall.

CASE 2

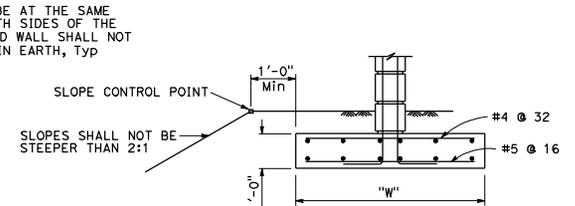
For details not shown, see Case 1. Level ground (±10%) on one side of the sound wall and sloping ground on the opposite side.

TRENCH FOOTING SECTION



CASE 1

For details not shown, see Case 2. Level ground (±10%) on both sides of the sound wall.



CASE 2

For details not shown, see Case 1. Level ground (±10%) on the traffic side of the sound wall and sloping ground on the opposite side.

SPREAD FOOTING SECTION

TRENCH FOOTING

MAXIMUM H	CASE 1		CASE 2		MAXIMUM H	
	φ = 25 Min	φ = 30 Min	φ = 30 Min	φ = 35 Min		
	D	D	D	D		
6'-0"	5'-0"	4'-3"	3'-6"	6'-6"	5'-0"	6'-0"
8'-0"	6'-0"	5'-0"	4'-3"	7'-9"	6'-0"	8'-0"
10'-0"	6'-9"	5'-9"	5'-0"	8'-9"	6'-9"	10'-0"
12'-0"	7'-9"	6'-6"	5'-6"	9'-9"	7'-9"	12'-0"
14'-0"	8'-6"	7'-3"	6'-0"	10'-9"	8'-6"	14'-0"
16'-0"	9'-3"	7'-9"	6'-6"	11'-9"	9'-3"	16'-0"

Case 1 - Level ground (±10%) on both sides of the sound wall.
Case 2 - Level ground (±10%) on traffic side of the sound wall and sloping ground on opposite side.

SOUND WALL REINFORCEMENT TABLE

MAXIMUM H	ⓐ BARS @ 1'-4" Max	ⓑ BARS @ 1'-4" Max	"y"	f'm (psi)	COMPRESSIVE STRENGTH OF CMU (psi)	MAXIMUM H
6'-0"	#4	—	—	1500	1900	6'-0"
8'-0"	#4	—	—	1500	1900	8'-0"
10'-0"	#4	—	—	1500	1900	10'-0"
12'-0"	#5	#4	6'-0"	1500	1900	12'-0"
14'-0"	#6	#4	8'-0"	1500	1900	14'-0"
16'-0"	#6	#4	10'-0"	2000	2800	16'-0"

GENERAL NOTES:

- For type of block and joint finish, see other sheets.
- When blocks are laid in stacked bond, ladder type, galvanized joint reinforcement shall be provided. A minimum of 2-9 gauge wires continuous at 4'-0" maximum to be used. Locate reinforcement in joints that are at the approximate midpoint between bond and beams.
- Horizontal joints shall be tooled concave or may be weathered. Vertical joints shall be tooled concave or may be raked.
- For intermediate wall heights that are between the "H"s given, use the tabular information for the next higher "H".
- Masonry strengths are listed in the "SOUND WALL REINFORCEMENT TABLE".

SPREAD FOOTING

MAXIMUM H	W
6'-0"	3'-0"
8'-0"	4'-0"
10'-0"	5'-0"
12'-0"	5'-9"
14'-0"	6'-6"
16'-0"	7'-6"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SOUND WALL MASONRY BLOCK ON FOOTING DETAILS (1)

NO SCALE

B15-1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS

REGISTERED CIVIL ENGINEER
Tillot Satter
No. C42892
Exp. 3-31-12
CIVIL
STATE OF CALIFORNIA

May 20, 2011
PLANS APPROVAL DATE

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