

RELEASED FOR CONSTRUCTION 12/02/10

DESIGN HEIGHT "H"	DRILLED IN ANCHOR **
8'	HILTI HVA ADHESIVE ANCHOR, 1/2" Ø BOLT
10'	HILTI HVA ADHESIVE ANCHOR, 3/4" Ø BOLT
12'	HILTI HVA ADHESIVE ANCHOR, 1" Ø BOLT
14'	HILTI HVA ADHESIVE ANCHOR, 1 1/4" Ø BOLT

POST SIZE	GAGE FOR BOLTS
W8X24	3 1/2"
W8X31	5 1/2"
W10X33	5 1/2"
W10X39	5 1/2"
W12X40	5 1/2"
W12X45	5 1/2"

DESIGN HEIGHT "H" Δ	ANCHOR DIAMETER	BOLT HOLE SIZE
6'	3/8"	9/16"
8'	1/2"	11/16"
10'	5/8"	13/16"
12'	3/4"	15/16"
14'	7/8"	1 1/16"
16'	1"	1 3/16"
18'	1 1/8"	1 5/16"
18'-26'	1 1/2" W/PLATE	1 1/16"

NOTES: SOUND BARRIER SHALL NOT BE MOUNTED ON SIDE BARRIERS AS SHOWN IN GA STD 4948.
SOUND BARRIER SHALL ONLY BE ATTACHED TO BARRIERS OR RETAINING WALLS THAT HAVE BEEN SPECIFICALLY DESIGNED FOR THE LOADING FROM SOUND BARRIER.
** AT CONTRACTOR'S OPTION, OTHER CHEMICAL ADHESIVE ANCHORS ON THE GA DOT QUALIFIED PRODUCTS LIST MAY BE USED TO ATTACH SOUND BARRIER POSTS TO THE BACK OF TRAFFIC BARRIER.
Δ CONTRACTOR SHALL SUBMIT MANUFACTURER'S BROCHURE AND LOAD CAPACITY INFORMATION TO THE ENGINEER FOR APPROVAL BEFORE ORDERING ANCHORS. EPOXY RESIN ADHESIVE ANCHORS SHALL NOT BE USED FOR GROUND MOUNTED OR WALL MOUNTED SOUND BARRIERS.

POST SIZE	PANEL SUPPORT PLATE SIZE *
W8X24,31	4" x 7 1/8" x 1/2"
W10X22	4" x 9 3/8" x 1/2"
W10X26	4" x 9 1/2" x 1/2"
W10X33,39	4" x 8 7/8" x 1/2"
W12X26	4" x 11 1/2" x 1/2"
W12X40	4" x 11" x 1/2"
W12X45	4" x 10 7/8" x 1/2"
W14X30,34,38	4" x 13 1/8" x 1/2"
W14X43	4" x 12 5/8" x 1/2"
W14X48,53	4" x 12 1/2" x 1/2"
W14X61	4 7/8" x 12 5/8" x 1/2"
W14X74,82	4 7/8" x 12 1/2" x 1/2"
W14X90,109	7" x 12 5/8" x 1/2"

Δ BOLT HOLES (SEE CHART FOR GAGE, ANCHOR DIAMETER AND BOLT HOLE SIZE).
* REQUIRED FOR BARRIER MOUNTED SOUND BARRIER ONLY. OPTIONAL FOR GROUND MOUNTED SOUND BARRIER.

NOTE: MAXIMUM HEIGHT ON BRIDGE = 12'-0"
MAXIMUM HEIGHT ON M.S.E. WALL = 18'-0"

NOTE: POST AND BASE PLATE SHALL BE GALVANIZED AFTER ALL FABRICATION IS COMPLETE.
THIS DETAIL DOES NOT APPLY FOR SOUND BARRIERS OVER 24'-0" HIGH.

NOTE: BOLT HOLES IN BASE PLATE HOLES SHALL BE 3/16" LARGER THAN BOLTS.

HEIGHT	BOLT Ø	EMBED
6' TO 12'	3/4"	2'-0"
12' TO 16'	1"	3'-0"
16' TO 20'	1 1/4"	4'-6"
20' TO 24'	1 1/2"	6'-0"

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

NOTE: POST AND BASE PLATE SHALL BE GALVANIZED AFTER ALL FABRICATION IS COMPLETE.
THIS DETAIL DOES NOT APPLY FOR SOUND BARRIERS OVER 24'-0" HIGH.

NOTE: SOUND BARRIERS SHALL ONLY BE ATTACHED TO BARRIERS OR RETAINING WALLS WHICH HAVE BEEN SPECIFICALLY DESIGNED FOR THE LOADING FROM THE SOUND BARRIER.

REV. PANEL SUPPORT PLATE		DATE	
8-17-08			
REV. TABLE AND DETAILS		DATE	
1-08-08			
REVISED TABLE AND NOTE		DATE	
2-24-05			
DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA CONSTRUCTION DETAIL SOUND BARRIER FOUNDATION AND POST DETAILS			
SCALE 3/8"=1'-0" (UNLESS NOTED)		MAY 2004	
DESIGNED	JPT/DLC	REVIEWED	JPT/MCD
DRAWN	DLC	APPROVED	PVL
CHECKED	SWW	NUMBER	
DESIGN GROUP	SWW	N-1B	
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