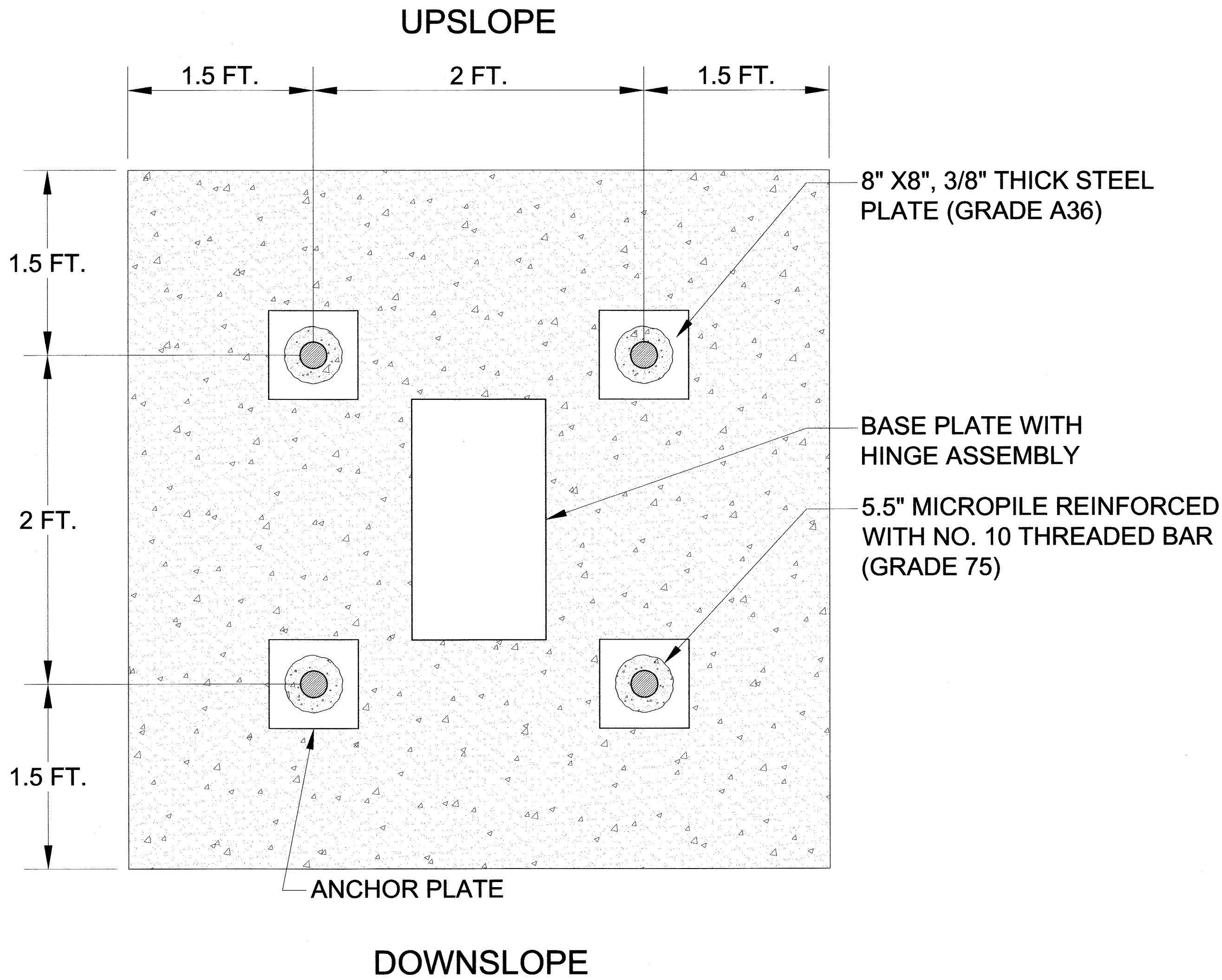
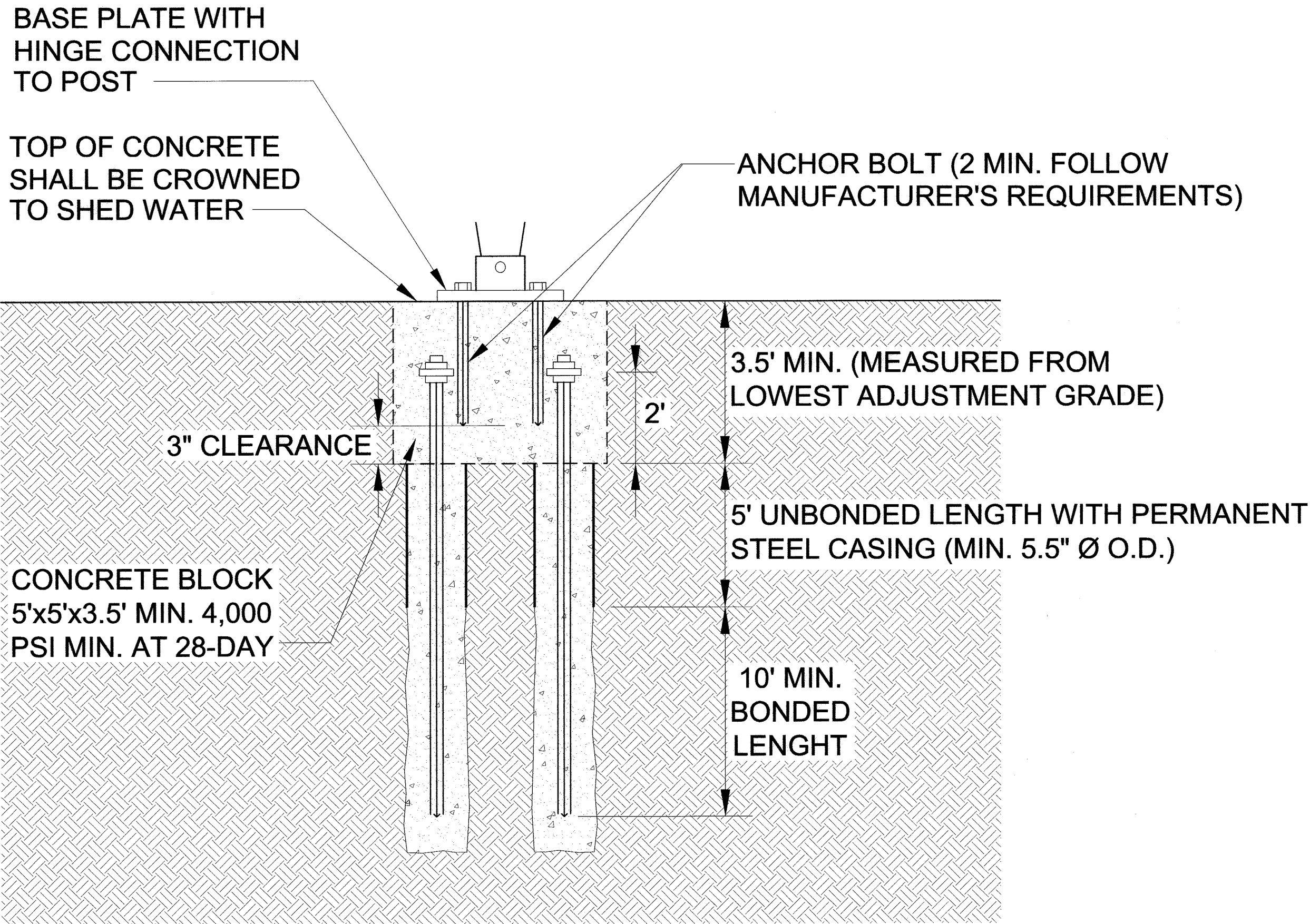


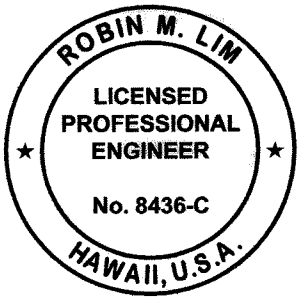
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(51)	2007	24	106



CONCRETE BLOCK POST FOUNDATION
(PLAN VIEW)
NOT TO SCALE



DETAILS OF CONCRETE BLOCK POST FOUNDATION
(CROSS-SECTION)
NOT TO SCALE



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION AND
CONSTRUCTION OF THIS PROJECT
WILL BE UNDER MY OBSERVATION

SIGNATURE: *Robin M. Lim* 4-30-08
EXPIRATION DATE OF THE LICENSE

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

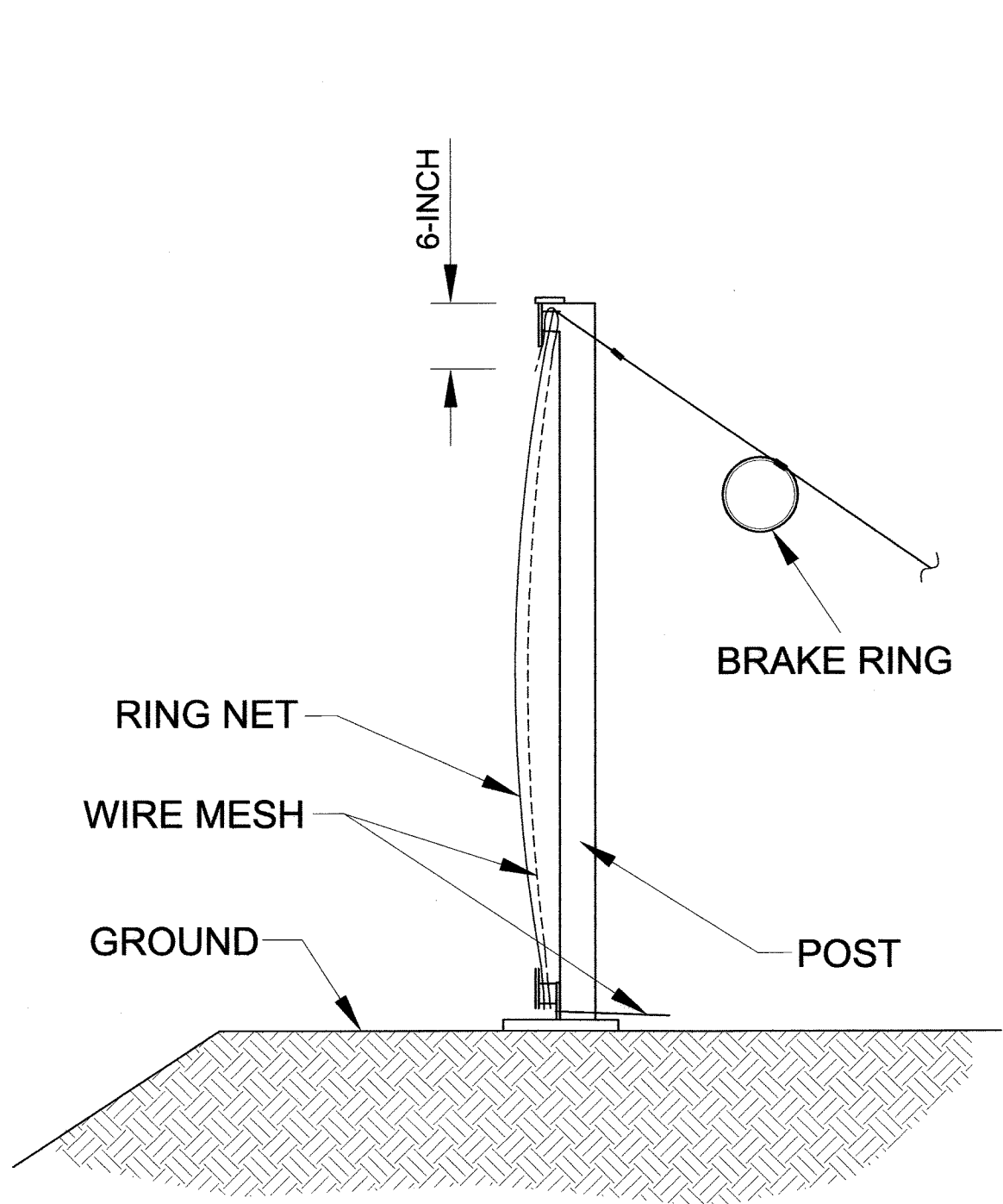
MISCELLANEOUS DETAILS

Kalaniana'ole Highway Improvements
Retaining Wall at Makapuu, Oahu
Federal-Aid Project No. NH-072-1(51)

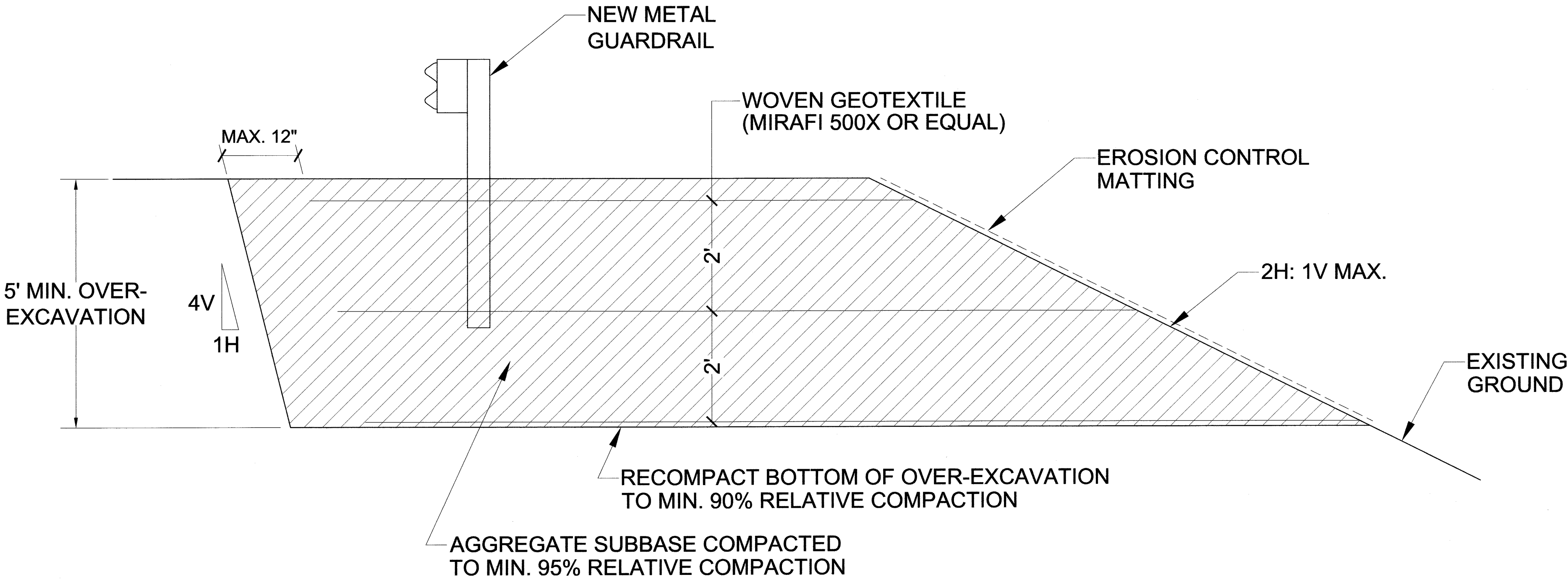
Scale: As Noted Date: April 2007

SHEET No. G-7 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(51)	2007	25	106



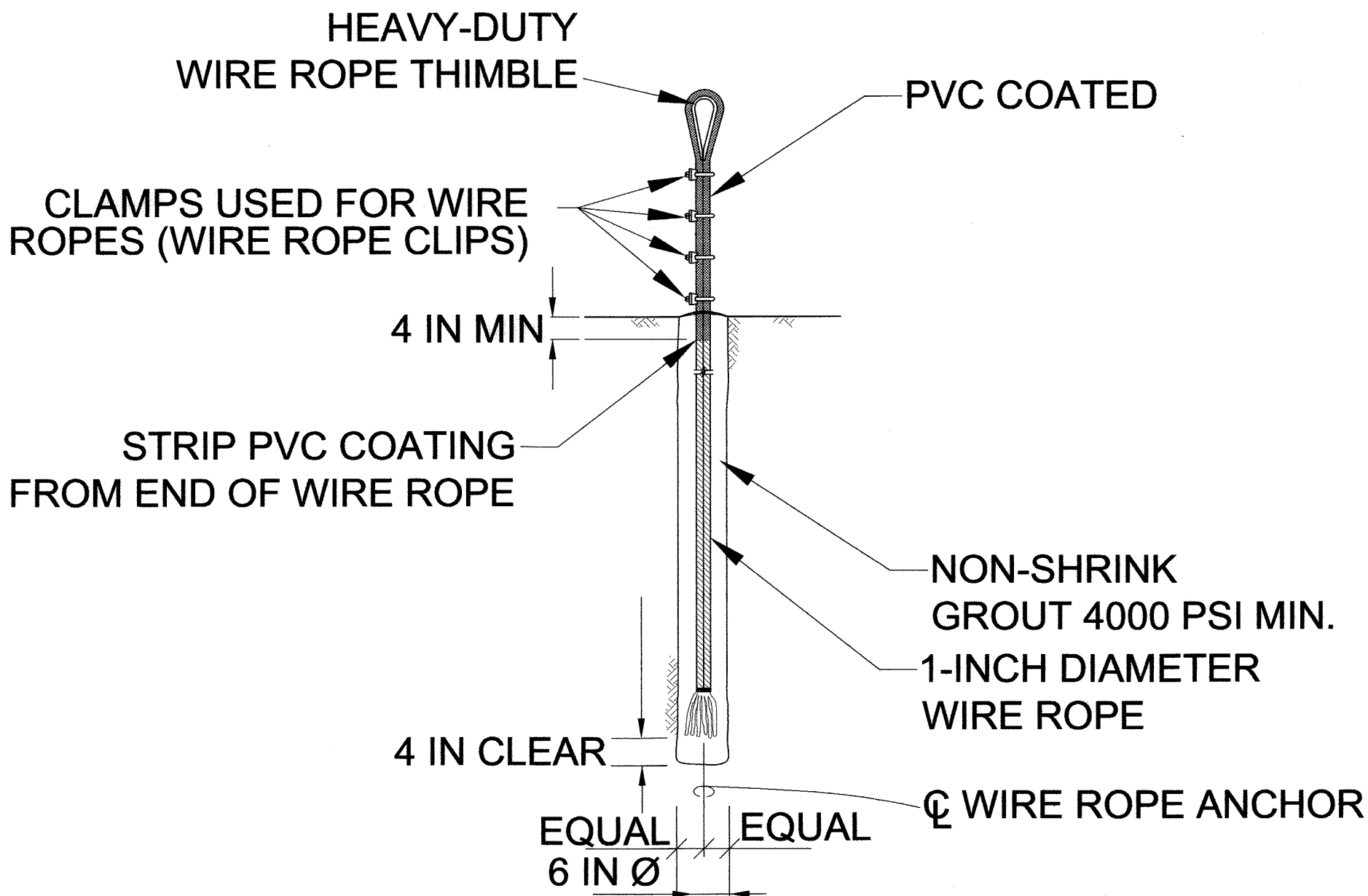
TYPICAL WIRE MESH PLACEMENT
NOT TO SCALE



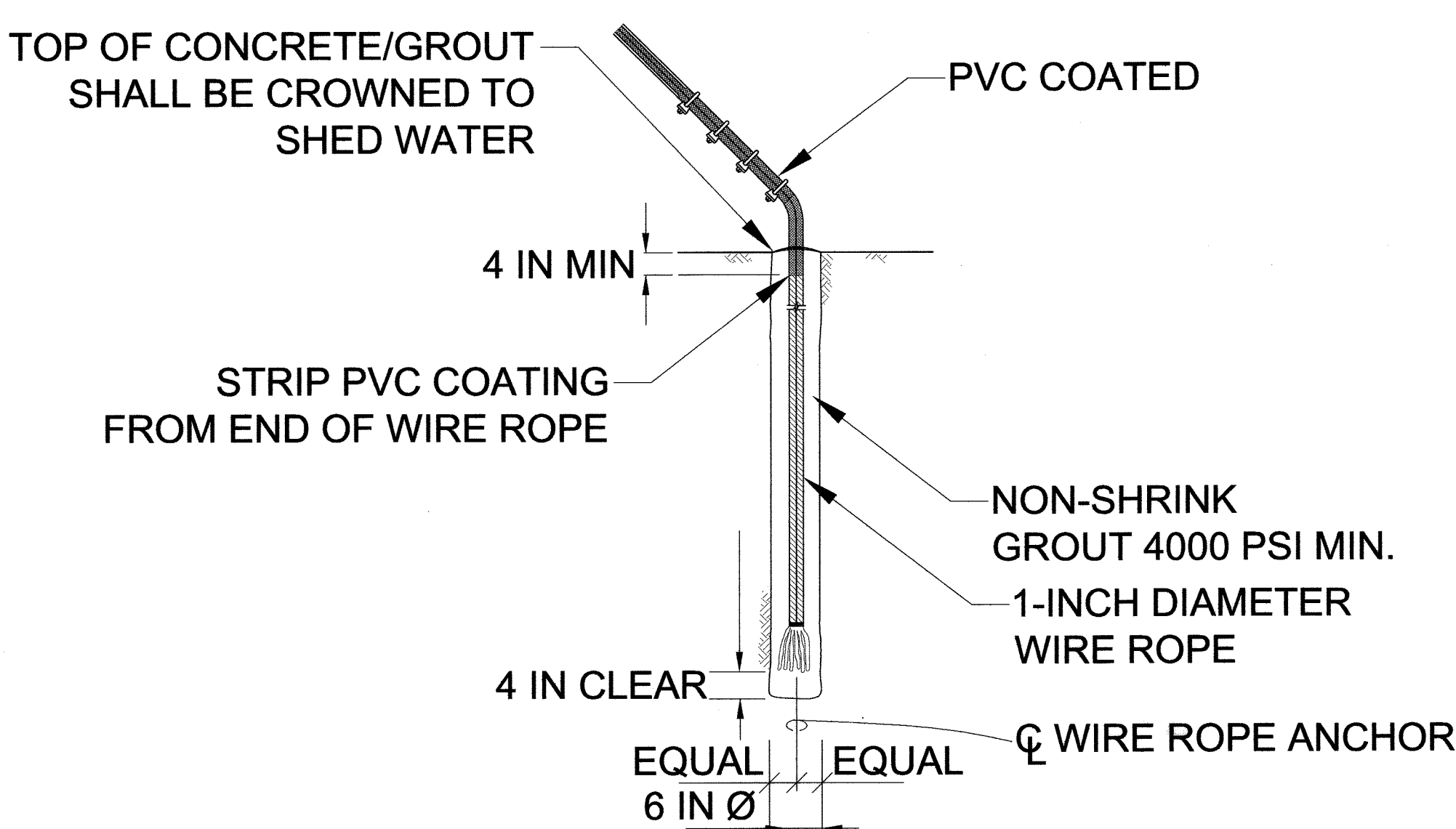
DETAILS OF REINFORCED BACKFILL
NOT TO SCALE

NOTES:

1. DRILL 6" MIN. DIA. ANCHOR HOLES TO A MINIMUM DEPTH OF 25 FT. FOR TOP, BOTTOM AND LATERAL SUPPORT ANCHORS AND 15 FT. FOR UPSLOPE RETAINING ANCHOR.
2. WIRE ROPE ANCHOR ENDS TO BE SPLAYED BEFORE SETTING IN CONCRETE.
3. ANCHORS SHALL HAVE A PULLOUT CAPACITY OF 26 TONS (52 KIPS) AND 19 TONS (38 KIPS) FOR SUPPORT AND UPSLOPE RETAINING ANCHORS, RESPECTIVELY.
4. NON-SHRINK GROUT SHALL BE DRY-PACK WITH NON-METALIC AND NON-GASEOUS CEMENTITIOUS GROUT.

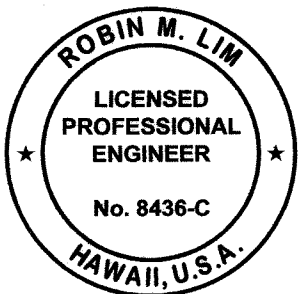


WIRE CABLE ANCHOR (FRONT VIEW)
NOT TO SCALE



WIRE CABLE ANCHOR (SIDE VIEW)
NOT TO SCALE

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION AND
CONSTRUCTION OF THIS PROJECT
WILL BE UNDER MY OBSERVATION

SIGNATURE: *Robin M. Lim*
EXPIRATION DATE OF THE LICENSE: 4-30-08

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
MISCELLANEOUS DETAILS
Kalaniana'ole Highway Improvements Retaining Wall at Makapuu, Oahu Federal-Aid Project No. NH-072-1(51)
Scale: As Noted Date: April 2007
SHEET No. G-8 OF 8 SHEETS