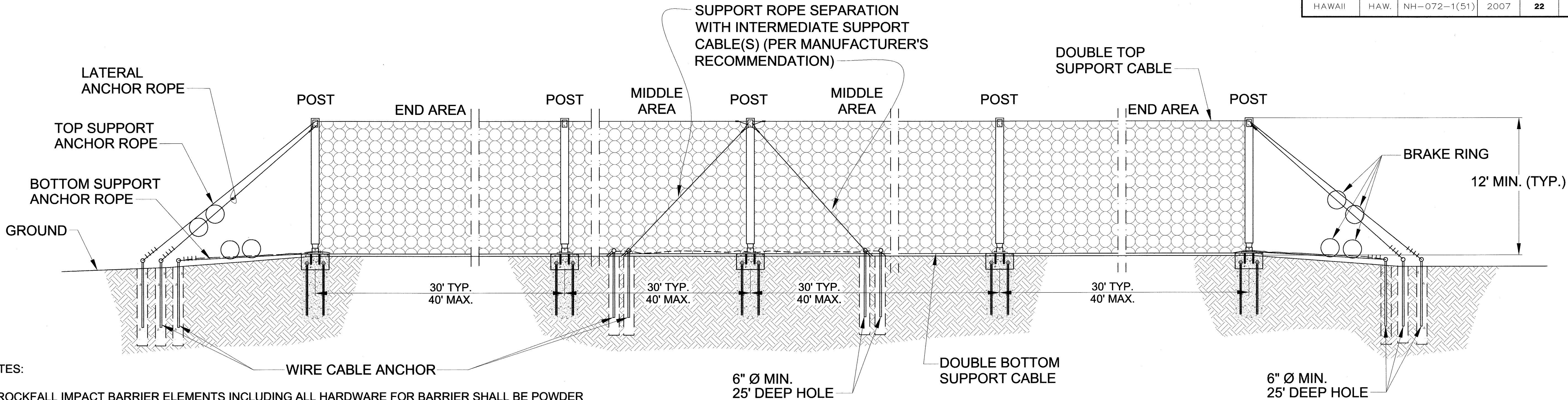


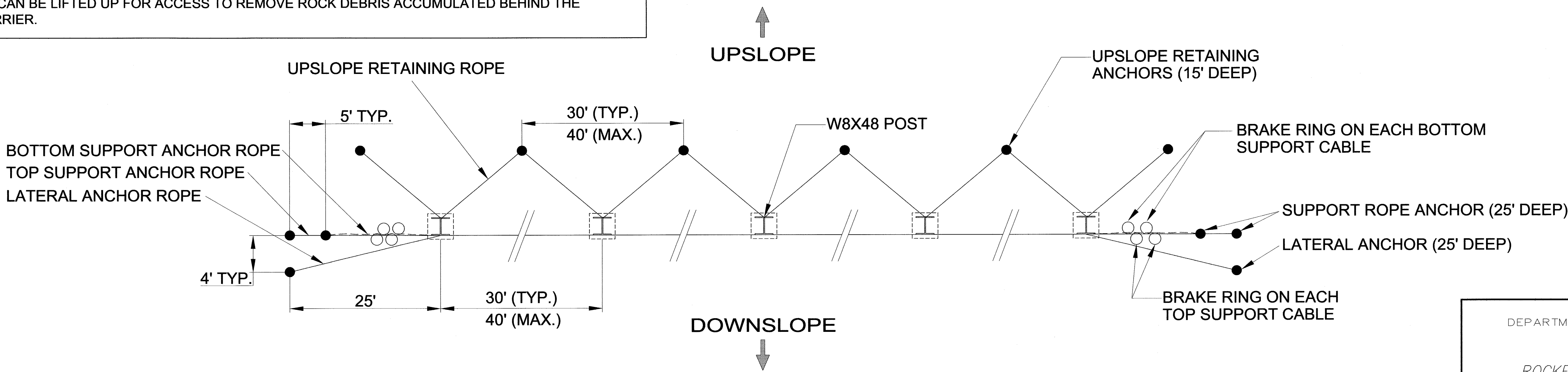
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(51)	2007	22	106



NOTES:

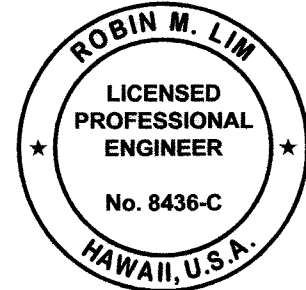
1. ROCKFALL IMPACT BARRIER ELEMENTS INCLUDING ALL HARDWARE FOR BARRIER SHALL BE POWDER COATED BLACK.
2. ROCKFALL IMPACT BARRIER SYSTEM SHALL HAVE A MINIMUM RATED ENERGY ABSORPTION CAPACITY OF 369 FT-TON.
3. VERTICAL SAG OF RING NET SHALL BE MAX. 3% OF POST SPACING.
4. THIS DRAWING IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR MUST REFER TO ROCKFALL IMPACT BARRIER MANUFACTURER'S DESIGN DETAILS FOR APPLICABLE DIMENSIONS AND MATERIAL SPECIFICATIONS.
5. BRAKE RINGS MUST BE ABLE TO BE REPLACED WITHOUT DISASSEMBLING SUPPORT CABLES BY INSTALLING A WIRE ROPE LOOP WITH THIMBLE NEAR THE BRAKE RINGS.
6. SUPPORT ROPE MUST BE ABLE TO BE DISCONNECTED FROM THE WIRE CABLE ANCHOR SO THAT THE RING NETS CAN BE LIFTED UP FOR ACCESS TO REMOVE ROCK DEBRIS ACCUMULATED BEHIND THE IMPACT BARRIER.

TYPICAL ROCKFALL IMPACT BARRIER (369 FT-TON CAPACITY)
NOT TO SCALE



TYPICAL LAYOUT OF POSTS AND ANCHOR POINTS
NOT TO SCALE

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



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

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROCKFALL IMPACT BARRIER

*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-5 OF 8 SHEETS