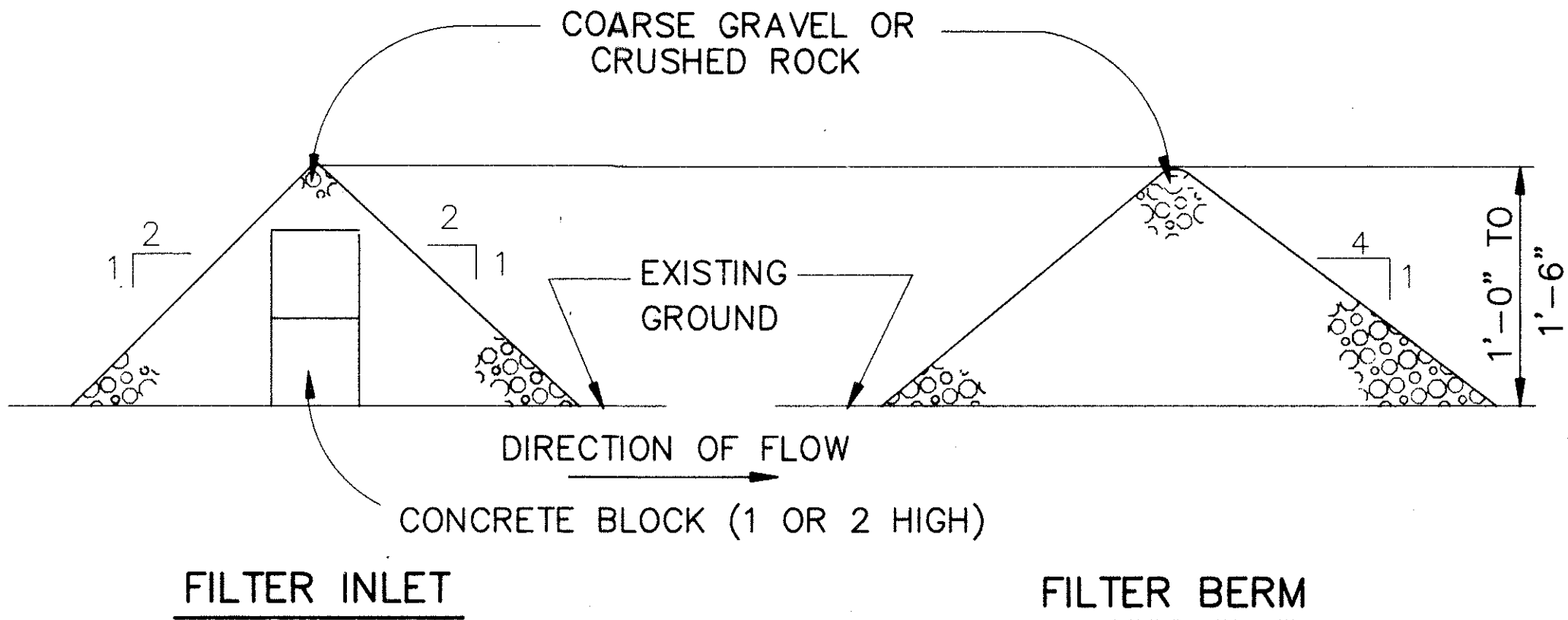


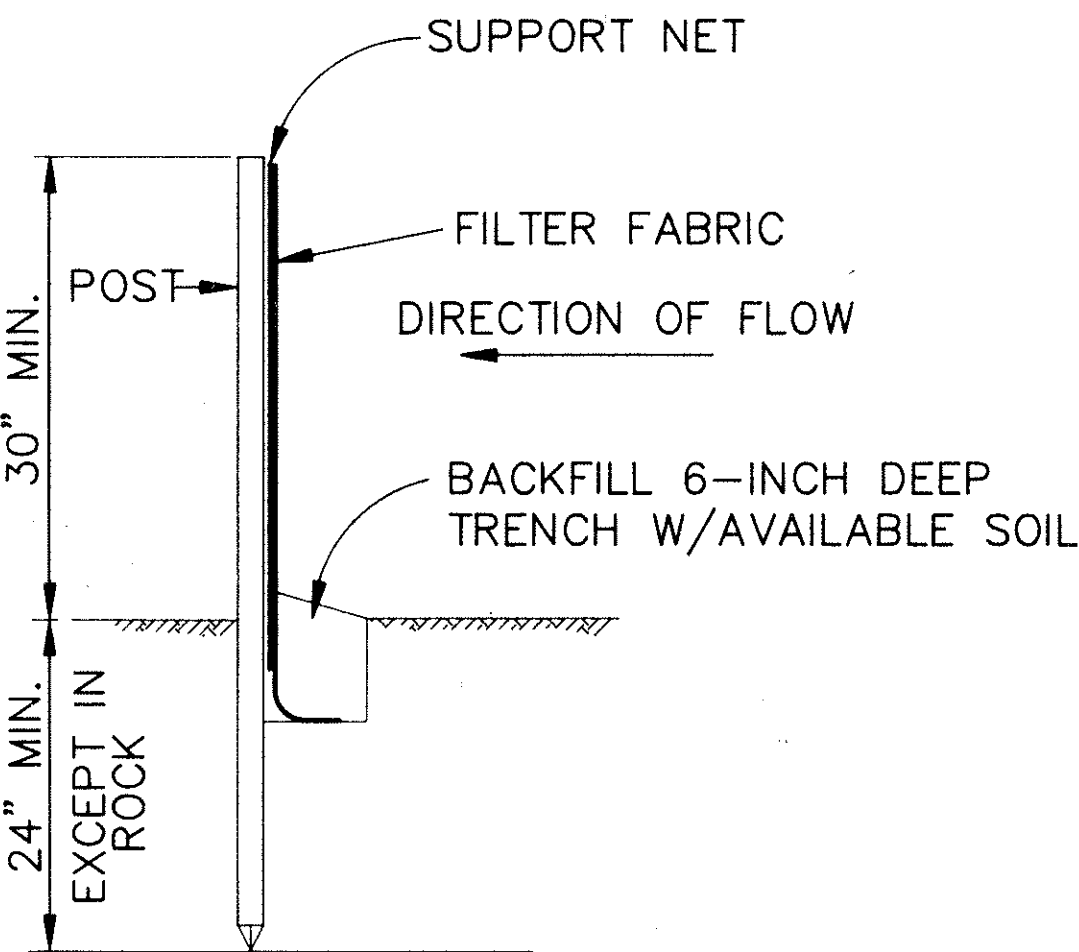
GRADING NOTES

1. ALL GRADING WORK SHALL BE DONE IN ACCORDANCE WITH CHAPTER 23, GRADING, SOIL EROSION AND SEDIMENT CONTROL, OF THE REVISED ORDINANCES OF HONOLULU, 1978, AS AMENDED (ORDNANCE NOS. 81-13 & 46-18), AND SOIL REPORT BY ERNEST K. HIRATA & ASSOCIATES, INC.
2. THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS RESULTING FROM HIS WORK AND DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS. THE COSTS INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE CHIEF ENGINEER SHALL BE PAYABLE BY THE CONTRACTOR.
3. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST AND OTHER NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH.
4. ALL EXPOSED SLOPES SHALL BE ~~HYDRO-MULCHED AND COVERED~~ WITH EROSION MAT IN ACCORDANCE WITH THE SPECIFICATIONS AND GRADING PLAN.
5. ALL SLOPES AND EXPOSED AREAS SHALL BE SODDED OR PLANTED AS SOON AS FINAL GRADES HAVE BEEN ESTABLISHED. PLANTING SHALL NOT BE DELAYED UNTIL ALL GRADING WORK HAS BEEN COMPLETED. GRADING TO FINAL GRADE SHALL BE CONTINUOUS, AND ANY AREA, WITHIN WHICH WORK HAS BEEN INTERRUPTED OR DELAYED, SHALL BE PLANTED.
6. FILLS ON SLOPES STEEPER THAN 5:1 SHALL BE KEYED.
7. NO GRADING WORK SHALL BE DONE ON SATURDAYS, SUNDAYS AND HOLIDAYS AT ANY TIME WITHOUT PRIOR WRITTEN NOTICE TO THE CHIEF ENGINEER OR DISTRICT ENGINEER, STATE OF HAWAII.
8. THE LIMITS OF THE AREA TO BE GRADED SHALL BE FLAGGED BY THE CONTRACTOR BEFORE THE COMMENCEMENT OF THE GRADING WORK.
9. THE CITY SHALL BE INFORMED OF THE LOCATION OF THE BORROW/DISPOSAL SITE FOR THE PROJECT WHEN THE APPLICATION FOR A GRADING PERMIT IS MADE. THE BORROW/DISPOSAL SITE MUST ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
10. ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF CHAPTER 54, WATER QUALITY STANDARDS, AND CHAPTER 55, WATER POLLUTION CONTROL, OF TITLE 11, ADMINISTRATIVE RULES OF THE STATE DEPARTMENT OF HEALTH.
11. TEMPORARY EROSION CONTROL PROCEDURES SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL PRIOR TO THE START OF ACTUAL GRADING OPERATIONS.
12. EXCAVATED MATERIAL ON SITE WHICH WILL BE EXPOSED FOR MORE THAN 7 DAYS SHALL BE COVERED WITH PLASTIC SHEETS WITHIN 2 DAYS OF PLACEMENT OR AS DIRECTED BY THE ENGINEER.
13. SILT FENCE SHALL BE INSTALLED ALONG THE EDGES OF OPEN CHANNELS & DITCHES IN ORDER TO FILTER SEDIMENT FROM RUNOFF, BEFORE WATERS ENTER THE CHANNEL.
14. TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN-PLACE AND ESTABLISHED.



TEMPORARY EROSION CONTROL MEASURE

N.T.S.



SILT FENCE DETAIL

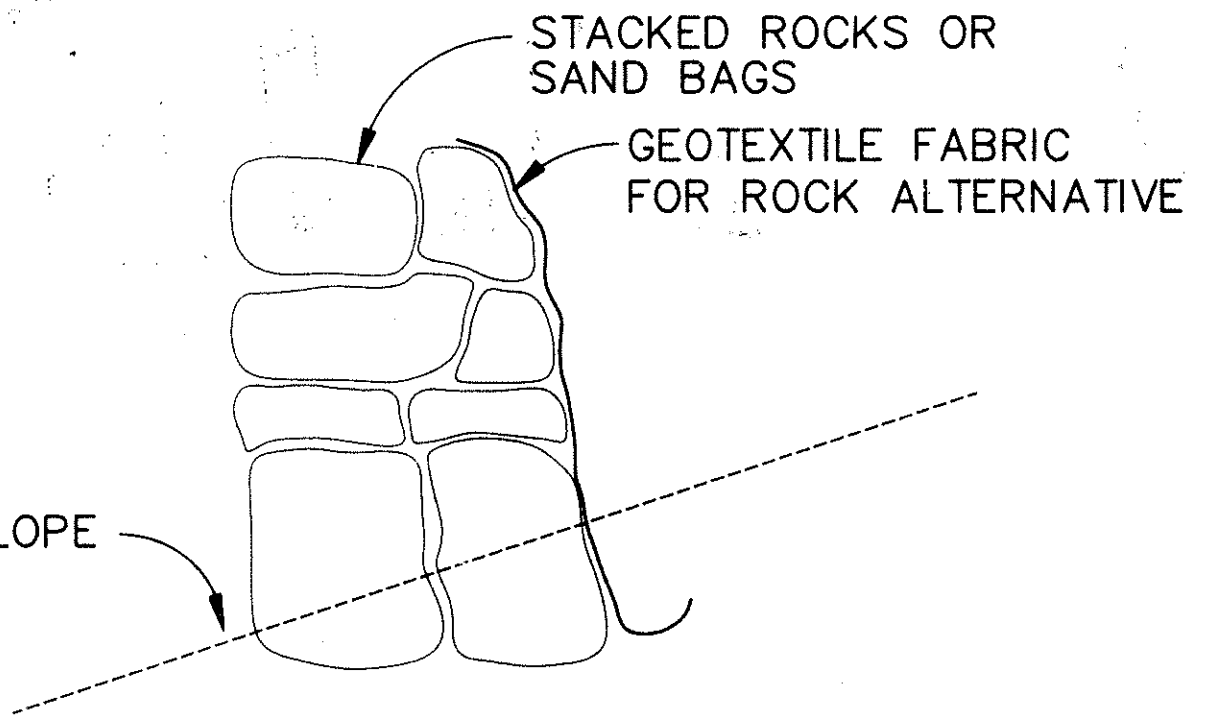
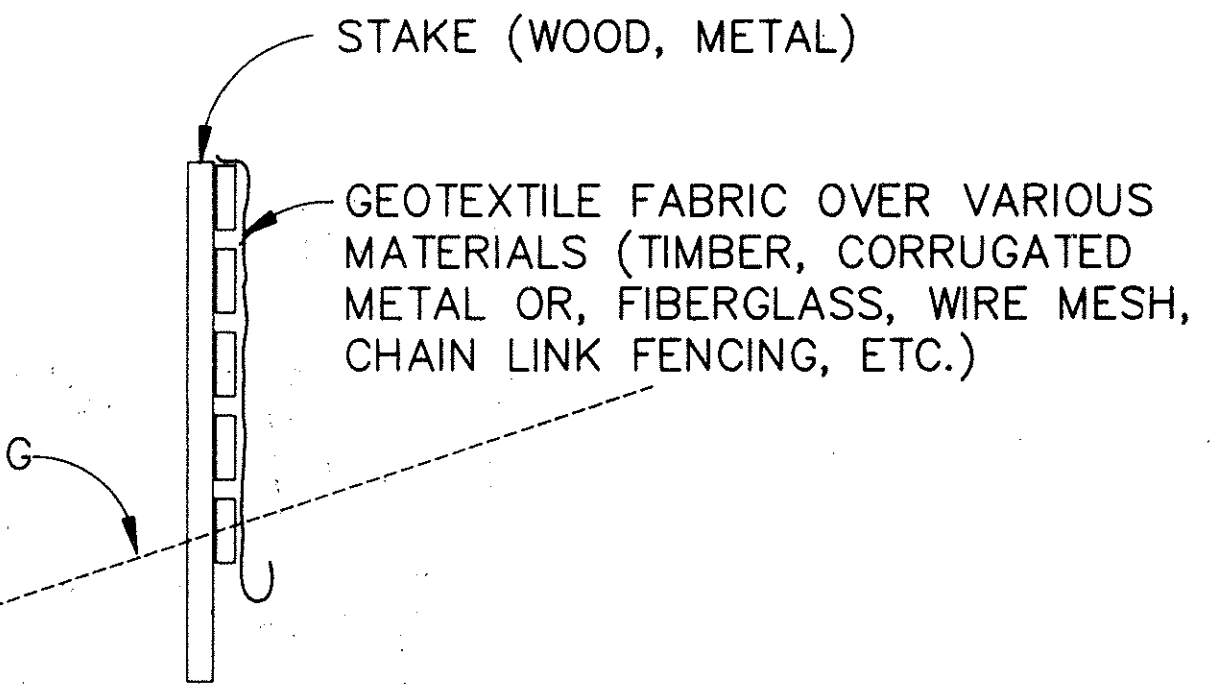
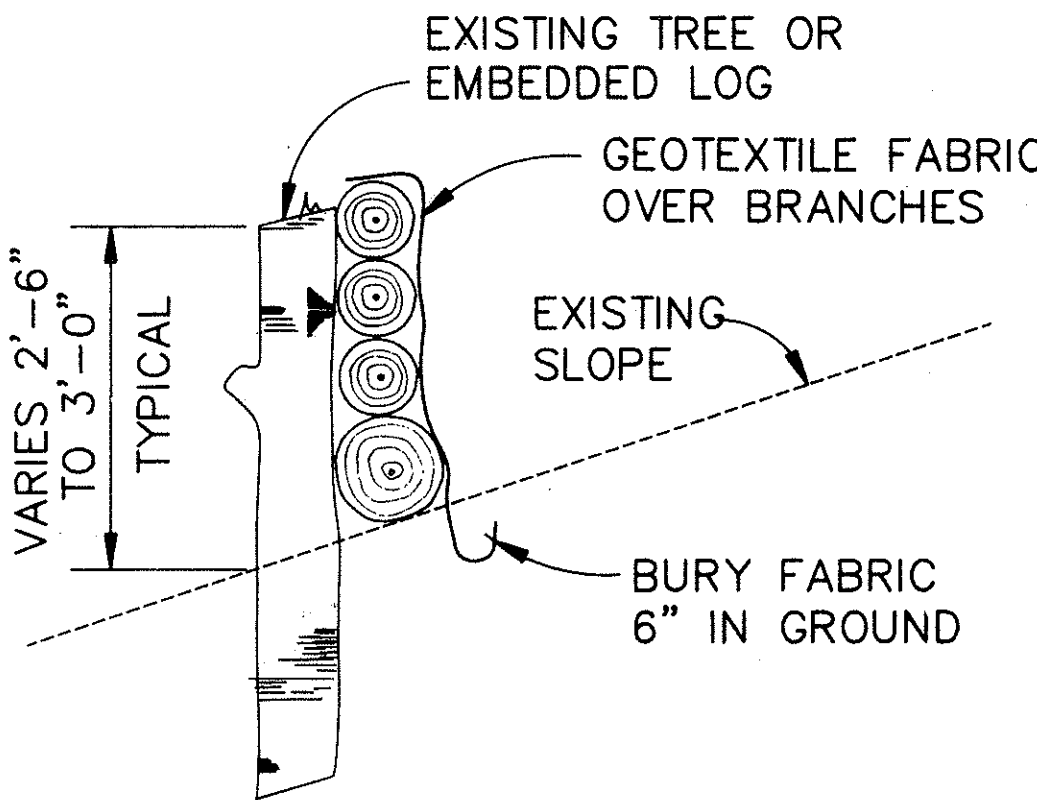
N.T.S.

\* SOME MANUFACTURERS ONLY SUPPLY SILT FENCE WITH WOODED POSTS. PRECAUTIONS SHALL BE TAKEN TO AVOID DAMAGES FROM DRIVING INTO HARD GROUND OR TERMITES.

NOTES:

1. FILTER FABRIC SHALL BE OF THE TYPE SPECIFIED AND INSTALLED IN COMBINATION WITH A SUPPORT NET OF POLYESTER NETTING OR APPROVED EQUAL. THE FILTER FABRIC SHALL BE A MINIMUM OF 36 INCHES WIDE AND THE SUPPORT NET A MINIMUM OF 30 INCHES.
2. IF SILT FENCE IS OBTAINED FROM MANUFACTURER AS A PACKAGE (I.E. FABRIC ATTACHED TO POSTS) THE MANUFACTURERS INSTALLATION INSTRUCTIONS SHALL BE ADHERED TO.
3. POSTS SHALL BE METAL\* WHEREVER POSSIBLE, CROSS SECTION OF POST WILL BE SUBSTANTIAL ENOUGH TO SUPPORT A LOADED SILT FENCE WITHOUT BENDING. POST SPACING SHALL BE 4' TO 8', DEPENDING ON POST SIZE.

FED. ROAD DIS. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(69)	1992	76	325



SEDIMENT CONTROL DEVICES AND/OR ENERGY DISSIPATOR

N.T.S.

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
QUANTITIES BY	_____
NOTED BY	_____
ORIGINAL PLAN	_____
NO.	_____

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  
*Richard M. Wanda* 7/10/90  
SIGNATURE DATE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**GRADING NOTES  
EROSION AND SEDIMENT  
CONTROL MEASURES**

INTERSTATE ROUTE H-3  
F.A.I. PROJECT NO. I-H3-1(69)8(70)

SCALE: AS NOTED DATE: MARCH, 1992

SHEET No. C73 OF 95 SHEETS