

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	U-F-072-1 (25) UNIT II	1986	3	6

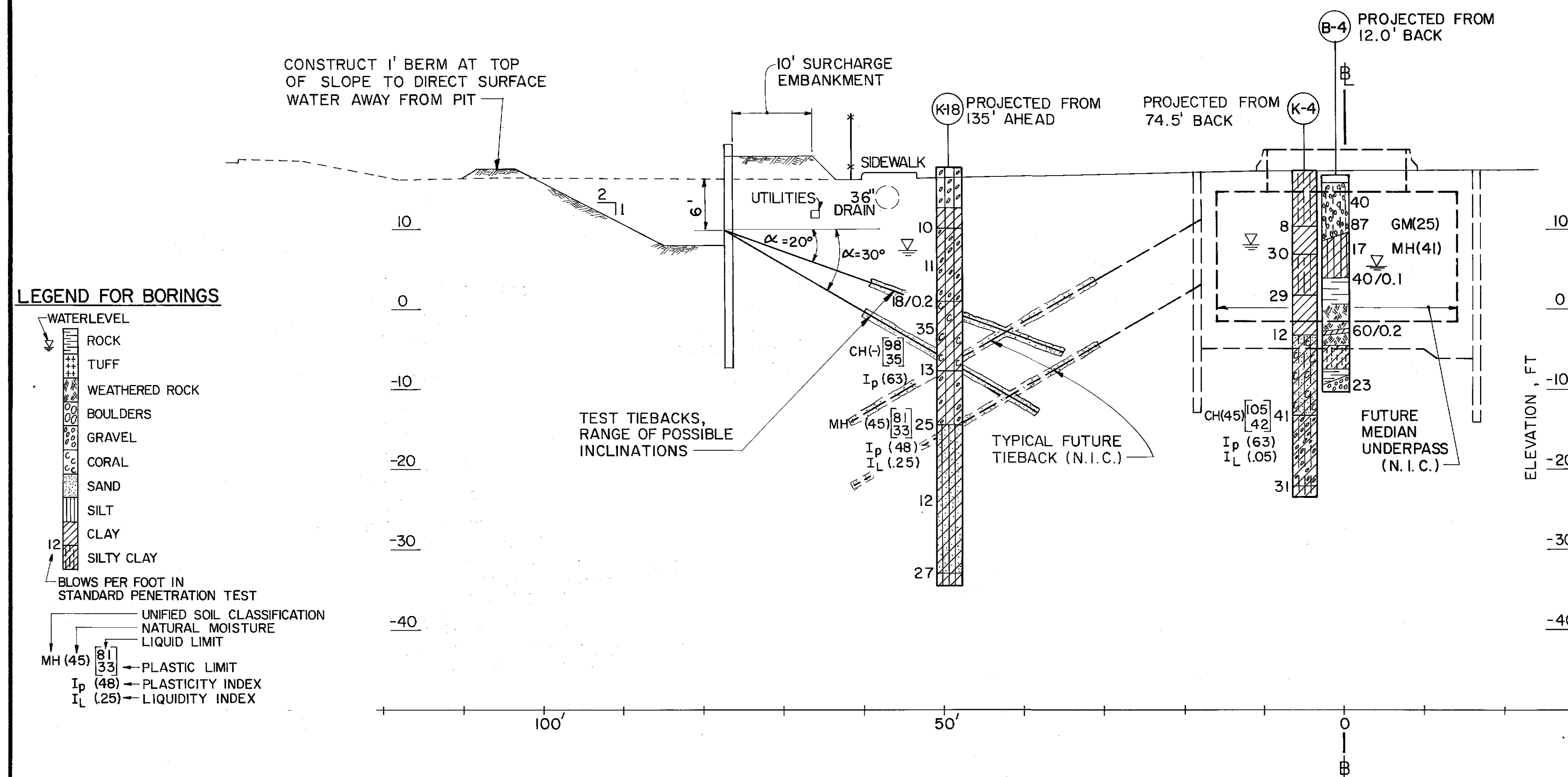
GENERAL NOTES:

1. The Contractor shall verify the location of all utility facilities and the working clearance to the existing overhead electrical lines and notify the respective owners before commencing the work of excavation or driving of sheet piling.
2. Clearing and grubbing of the test area shall be in accordance with the provisions of Section 201-Clearing and Grubbing.
3. All steel sheet piling shall be ASTM A 328.
4. All structural steel shall be ASTM A 36 except the tieback anchorage assembly which shall follow the manufactures requirements.
5. The tieback tendons shall be deformed steel bars, 1 1/4 inch diameter conforming to ASTM A 722. Furnished Length shall be 60 ft. See Subsection 513.05(B)(4).
6. All High Strength connection bolts shall be ASTM 325.
7. The surcharge embankment adjacent to the sheet pile wall shall be constructed by using the excavated material from the test area. For surcharge area limits see Site Plan, Sh. No. 2. The surplus excavated material shall be stockpiled for use in backfilling the test area after completion of the tieback testing. Any loamy topsoil is to be stockpiled and reserved for later use in the work. Temporary erosion and siltation control measures as described in Section 639 - Temporary Project Water Pollution Control (Soil Erosion) shall be applied to any erodible material of this project including local material sources and work areas and all haul or access roads.
8. The Contractor shall keep the test area free from water to the satisfaction of the Engineer during the installation and testing of the tiebacks. The contractor shall make all necessary arrangements with the proper agency for the proper disposal of water removed from the test area.
9. For construction sequence, including installation of tiebacks and instrumentation, and testing procedures and requirements, see Special Provisions.
10. When directed by the Engineer, the Contractor shall detension and abandon the tiebacks, remove the wales and sheet piling, backfill the test area to its original grade, restore the site including any existing sidewalks, curbs and gutters, landscaping and other existing improvements which were damaged or demolished by the work. The test area shall be backfilled and compacted in accordance with the applicable provisions of Subsection 206.03(E) to 95 Percent Relative Compaction.
11. Wales, wale to wall connectors and wood blocking shall be considered incidental to Item No. 514.9900 Steel Sheet Piling.
12. Aggregate base course, survey reference points, clearing and restoration of the site shall be considered incidental to the various contract items.
13. The 8-foot security chain link fence and gates shall remain in place.
14. Contractor is not permitted to park vehicles or store equipment and materials outside of fenced-in area.
15. Contractor shall erect and maintain "NO PARKING" signs, barricades and other traffic control devices on Kalani High School driveway as directed by the Engineer. Payment will be considered incidental to various contract items.

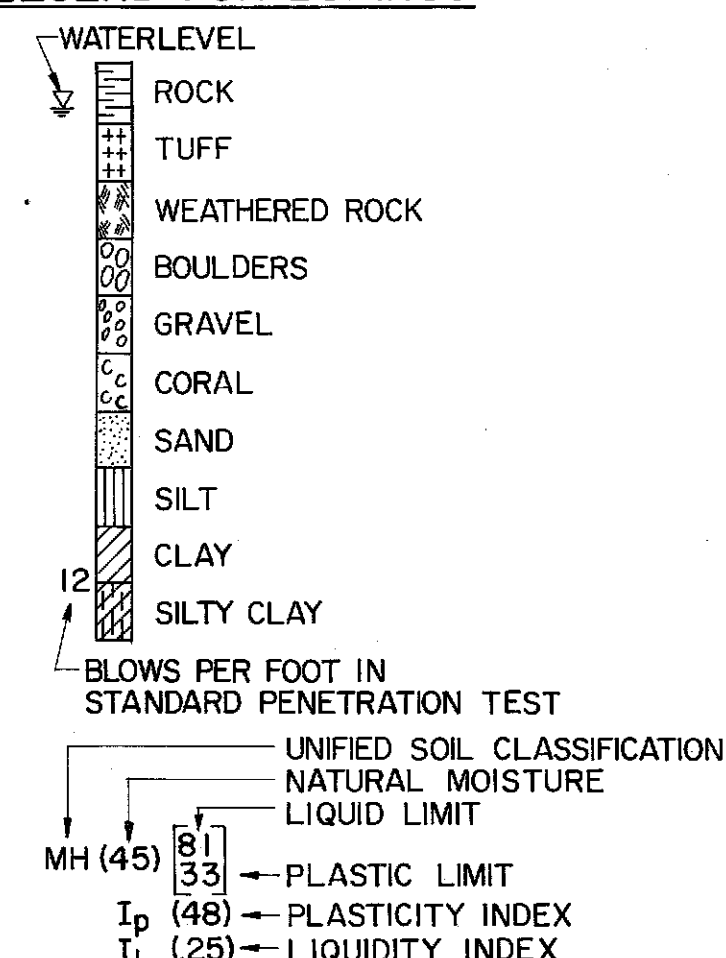


THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
William H. Hanks

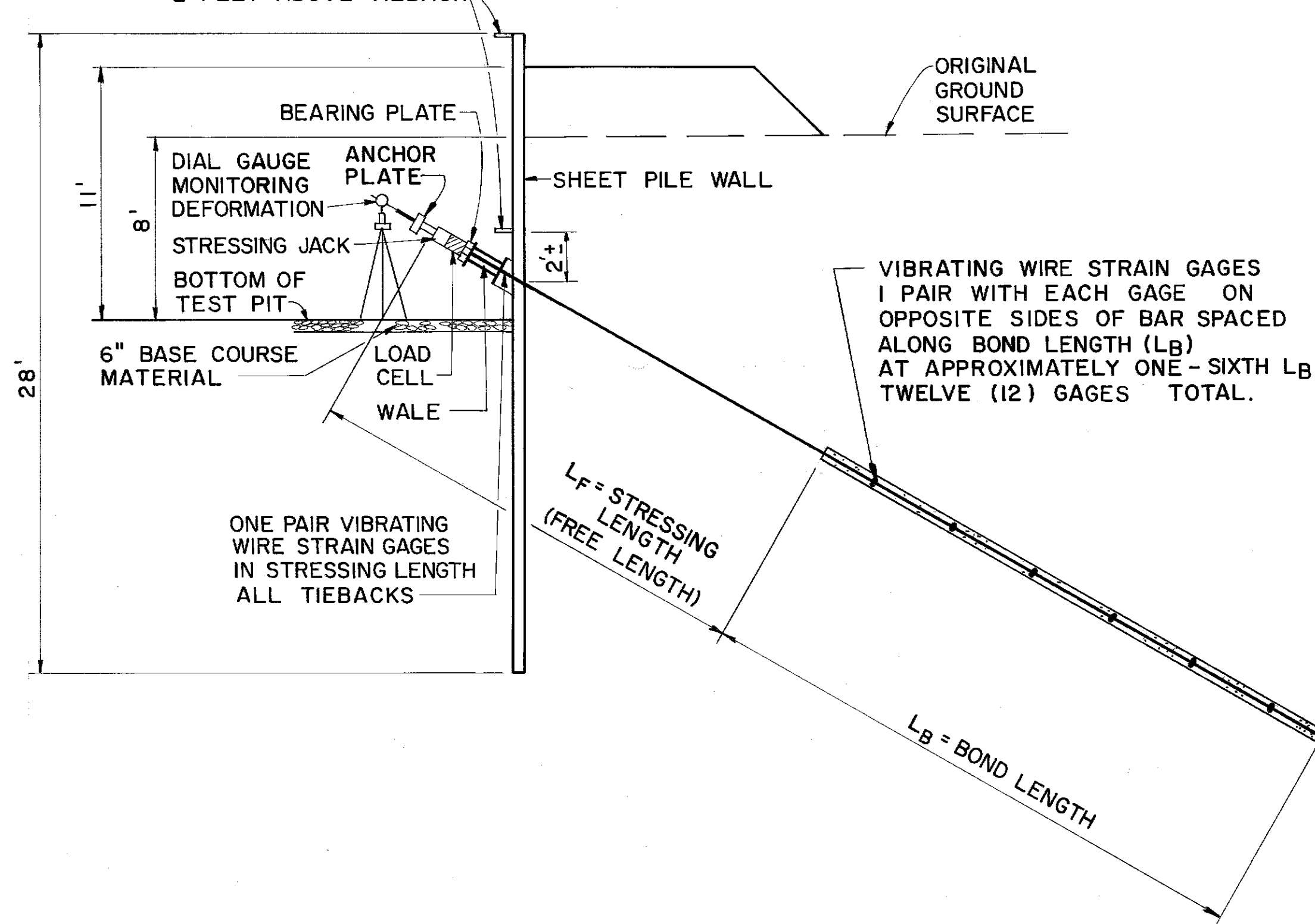
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION KALANIANA'OLE HIGHWAY TIEBACK TEST PROGRAM PROJECT NO. U-F-072-1(25) UNIT II, PHASE 'B' TIEBACK DETAILS AND GENERAL NOTES SCALE: AS SHOWN DATE: MAY 1986 SHEET NO. 3 OF 6 SHEETS



LEGEND FOR BORINGS



GRADUATED REFERENCES AT EACH TIEBACK FOR MONITORING WALL MOVEMENT. WELD TO SHEETING AT TOP EDGE AND APPROXIMATELY 2 FEET ABOVE TIEBACK



TYPICAL SECTION-TIEBACK ANCHOR AND INSTRUMENTATION
SCALE: 1" = 5'-0"

TIEBACK TEST SITE AT STA. 33 + 62
SCALE: 1" = 10'-0"

SCHEDULE OF TIEBACKS					
ANCHOR NO.	α	L _F	L _B	L _F + L _B SEE NOTE 5	STRAIN GAGES
1	30°	20'	25'	45'	A
2	30°	20'	25'	45'	A
3	30°	20'	25'	45'	B
4	30°	20'	25'	45'	B

A: GAGES IN STRESSING LENGTH ONLY
B: GAGES IN STRESSING LENGTH PLUS IN BOND ZONE

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