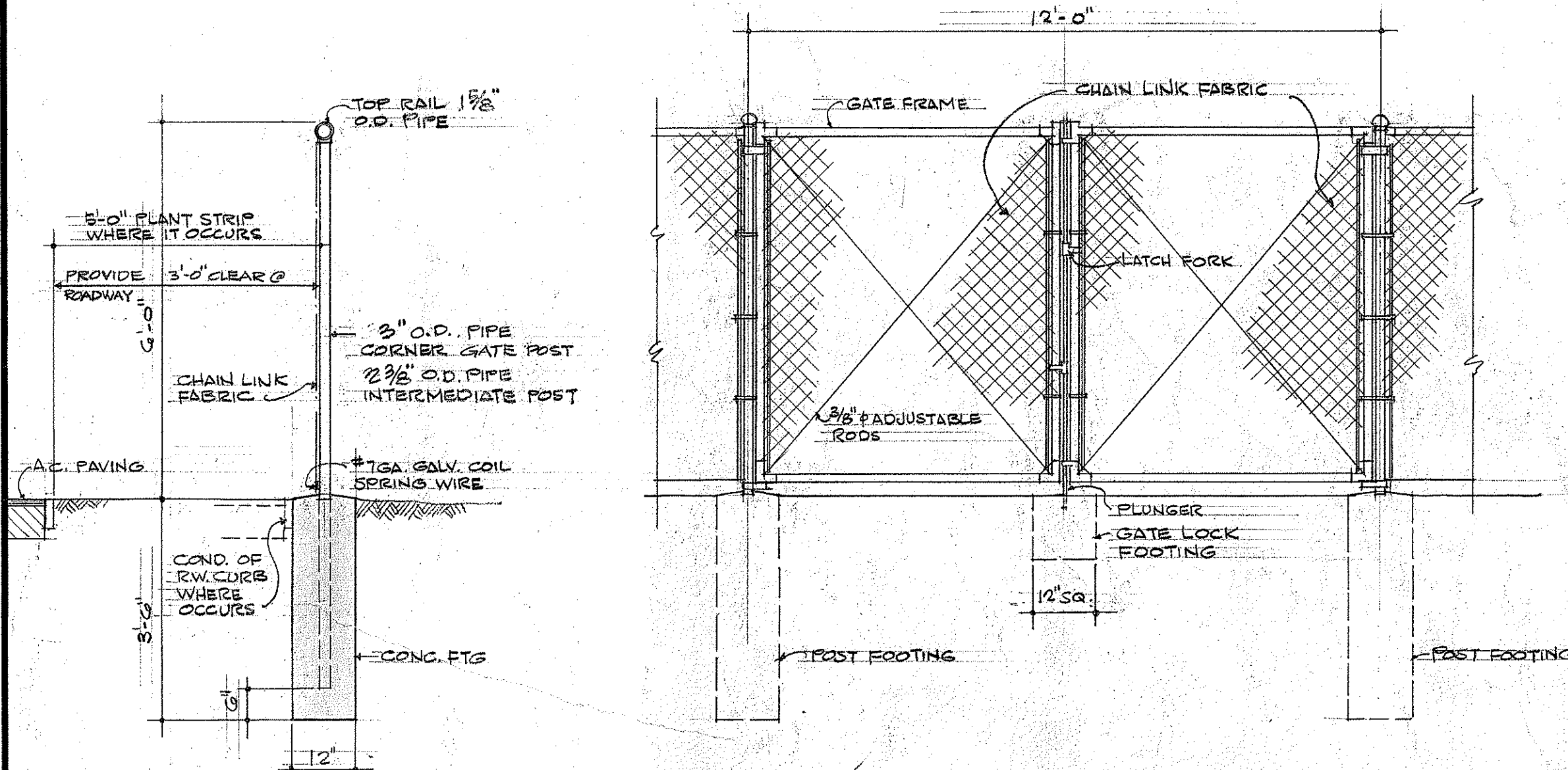


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.				

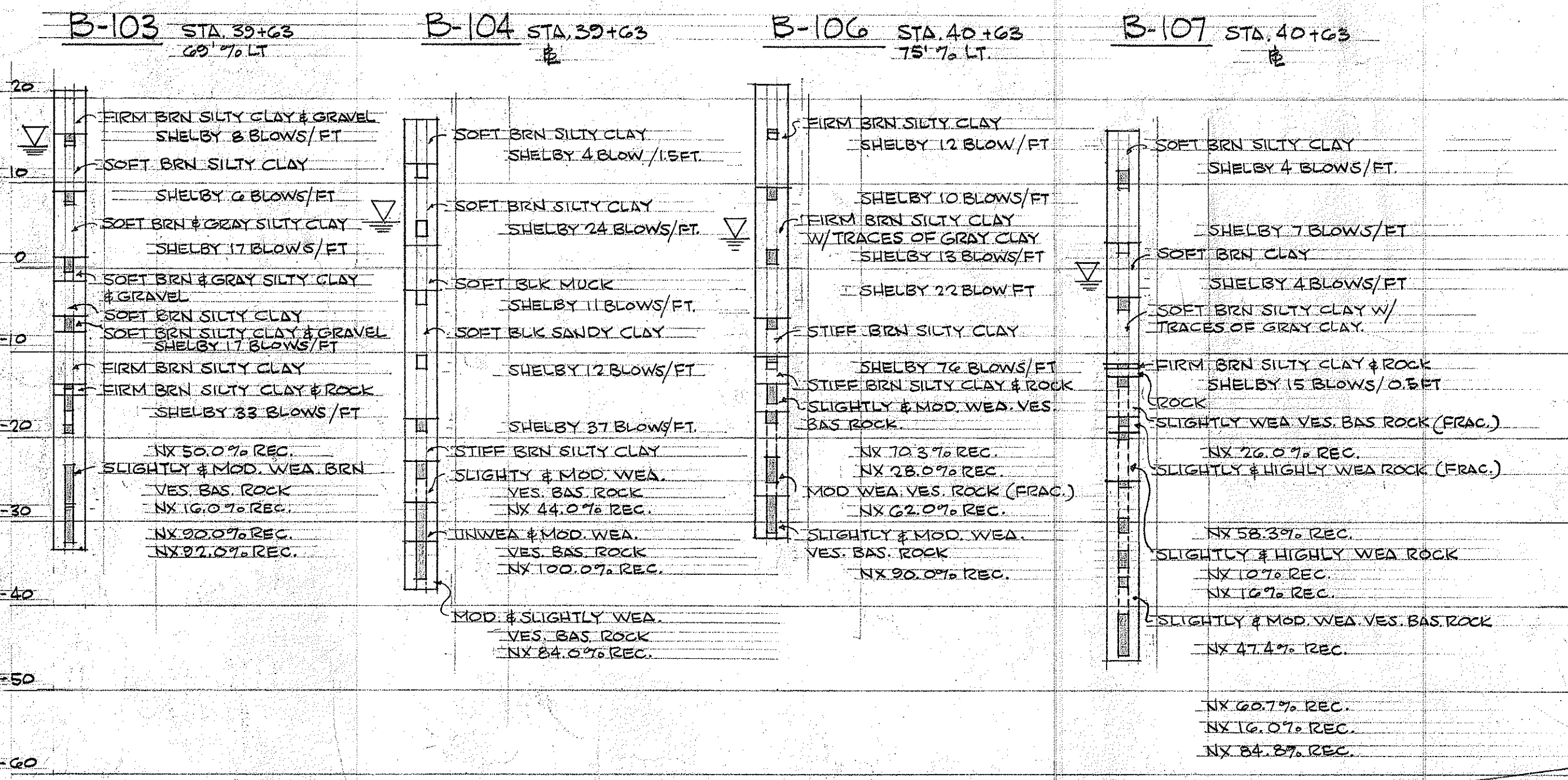


TYP. SECTION

TYPICAL GATE ELEVATION

CHAIN LINK FENCE DETAIL
SCALE: 1/2" = 1'-0"

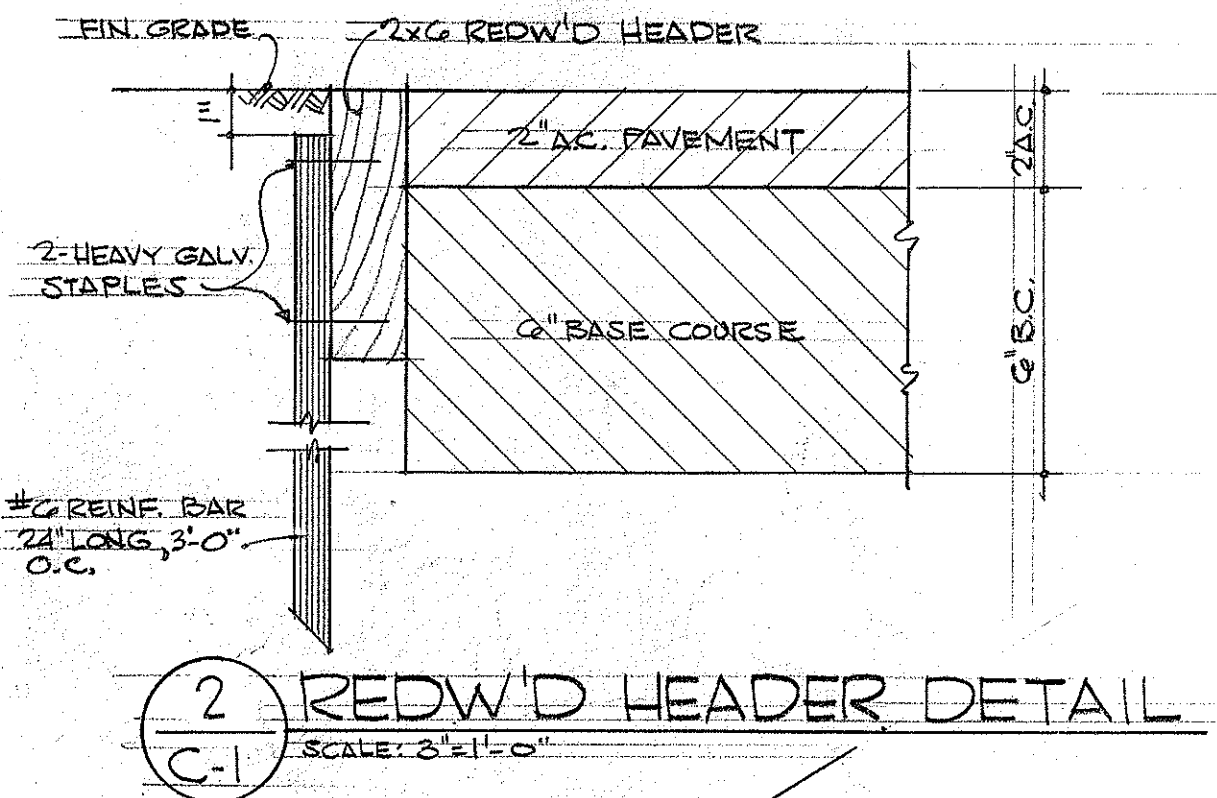
NOTE:
PROVIDE ALL NECESSARY FITTING, BRACING, ETC. AS REQUIRED. SEE SPECS.
PROVIDE CHAIN W/ PADLOCK.



LEGENDS

- EXISTING VIADUCT COLUMNS.
- NEW A.C. PAVEMENT
- ▨ NEW BUILDING

BORING LOGS



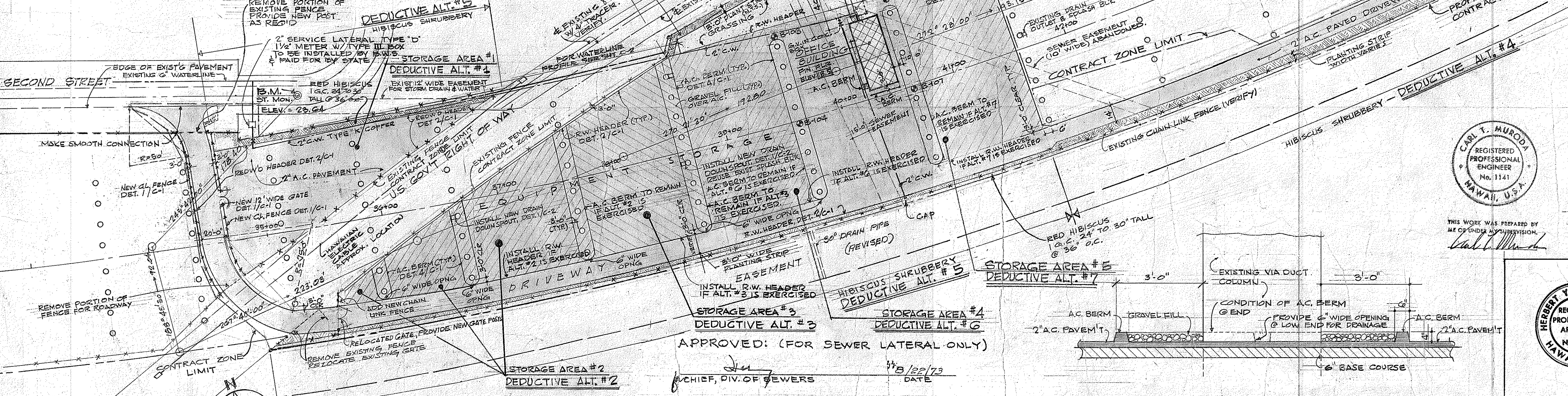
REDWOOD HEADER DETAIL
SCALE: 3/4" = 1'-0"

GENERAL NOTES:

- THE CONTRACTOR SHALL NOT STORE ANY EXPLOSIVE OR INFLAMMABLE MATERIAL AT THE WORK SITE.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION OF ALL COLUMNS AND PIERS DURING CONSTRUCTION AND SHALL EXERCISE DUE CAUTION TO AVOID DAMAGE TO THE STRUCTURES.
- ALL EXCAVATIONS AND BACKFILLING OPERATIONS IN STANDARD OIL CO. EASEMENT SHALL BE WITNESSED BY A COMPANY REPRESENTATIVE. ALL BACKFILL MATERIAL WITHIN 6 INCHES OF STANDARD OIL CO. LINES MUST BE OF FINELY GRADED DIRT OR SAND.
- ALL CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD DETAIL, FEBRUARY 1973, AND THE STANDARD SPECIFICATIONS, NOVEMBER 1968, OF THE DEPARTMENT OF PUBLIC WORKS, CITY AND COUNTY OF HONOLULU.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGES TO ANY AND ALL EXISTING UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO SEWER, WATER, DRAINAGE, ELECTRIC, TELEPHONE, GAS, FUEL, ETC., WHETHER OR NOT SHOWN ON THE DRAWINGS AND SHALL INDEMNIFY AND HOLD THE ENGINEER HARMLESS FROM ANY CLAIMS THEREON.
- ANY FENCING, LANDSCAPING, AND SPRINKLER SYSTEM SHALL NOT BE INSTALLED WITHIN OR INTERFERE WITH STANDARD OIL PIPELINES & EASEMENTS.

WATER NOTES

- UNLESS OTHERWISE SPECIFIED ALL MATERIALS AND CONSTRUCTION OF WATER SYSTEM FACILITIES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE HONOLULU BOARD OF WATER SUPPLY'S WATER SYSTEM STANDARDS DATED JULY 1969, AND ALL SUBSEQUENT AMENDMENTS AND ADDITIONS.
- ALL PLANS APPROVED BY THE BOARD OF WATER SUPPLY ARE BASED SOLELY ON THE ADEQUACY OF THE WATER SUPPLY. ALL OTHER FEATURES OF THE WATER SYSTEM SUCH AS LINES, GRADES, FITTINGS, ETC. SHALL BE THE RESPONSIBILITY OF THE ENGINEER WHO PREPARED THE PLANS. DRAINAGE AND OTHER FEATURES OF THE IMPROVEMENTS SHALL NOT BE THE RESPONSIBILITY OF BOARD OF WATER SUPPLY.
- PRIOR TO EXCAVATING FOR NEW UTILITY LINES, THE CONTRACTOR SHALL VERIFY IN THE FIELD THE LOCATION OF EXISTING WATER MAINS AND APPURTENANCES. WHERE THE INSTALLATION OF NEW UTILITY LINES ARE TO CROSS OVER OR UNDER EXISTING WATER MAINS, THE CONTRACTOR SHALL EXPOSE THE EXISTING WATER MAINS PRIOR TO TRENCING. EXCAVATION AROUND WATER MAINS SHALL BE DONE BY HAND.
- THE CONTRACTOR SHALL NOTIFY THE BOARD OF WATER SUPPLY IN WRITING ONE WEEK PRIOR TO COMMENCING WORK ON THE MAIN.



SITE & UTILITY PLAN
SCALE: 1" = 50'-0"
TAX MAP KEY: 9-7-10-13

APPROVED:

EXEC. OFFICER
ENVIRONMENTAL HEALTH DIV., DEPT. OF HEALTH

5/21/73
DATE

TYP. A.C. BERM DETAIL
SCALE: 1/2" = 1'-0"

TYPICAL OUTDOOR CLEANOUT TO GRADE
SCALE: 1" = 1'-0"

CARL T. MURDO
REGISTERED PROFESSIONAL ENGINEER
No. 1141
HAWAII, U.S.A.

HERBERT Y. MATSUMURA
REGISTERED PROFESSIONAL ARCHITECT
No. 1356
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PEARL CITY BASEYARD
PEARL CITY OAHU, HAWAII

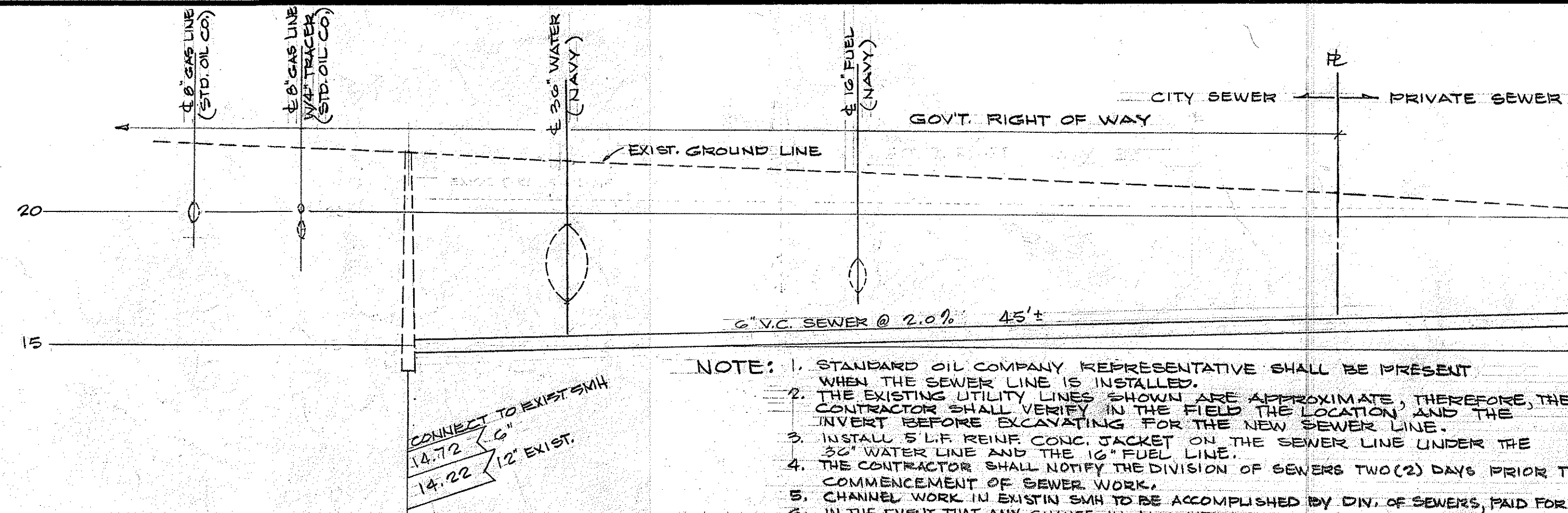
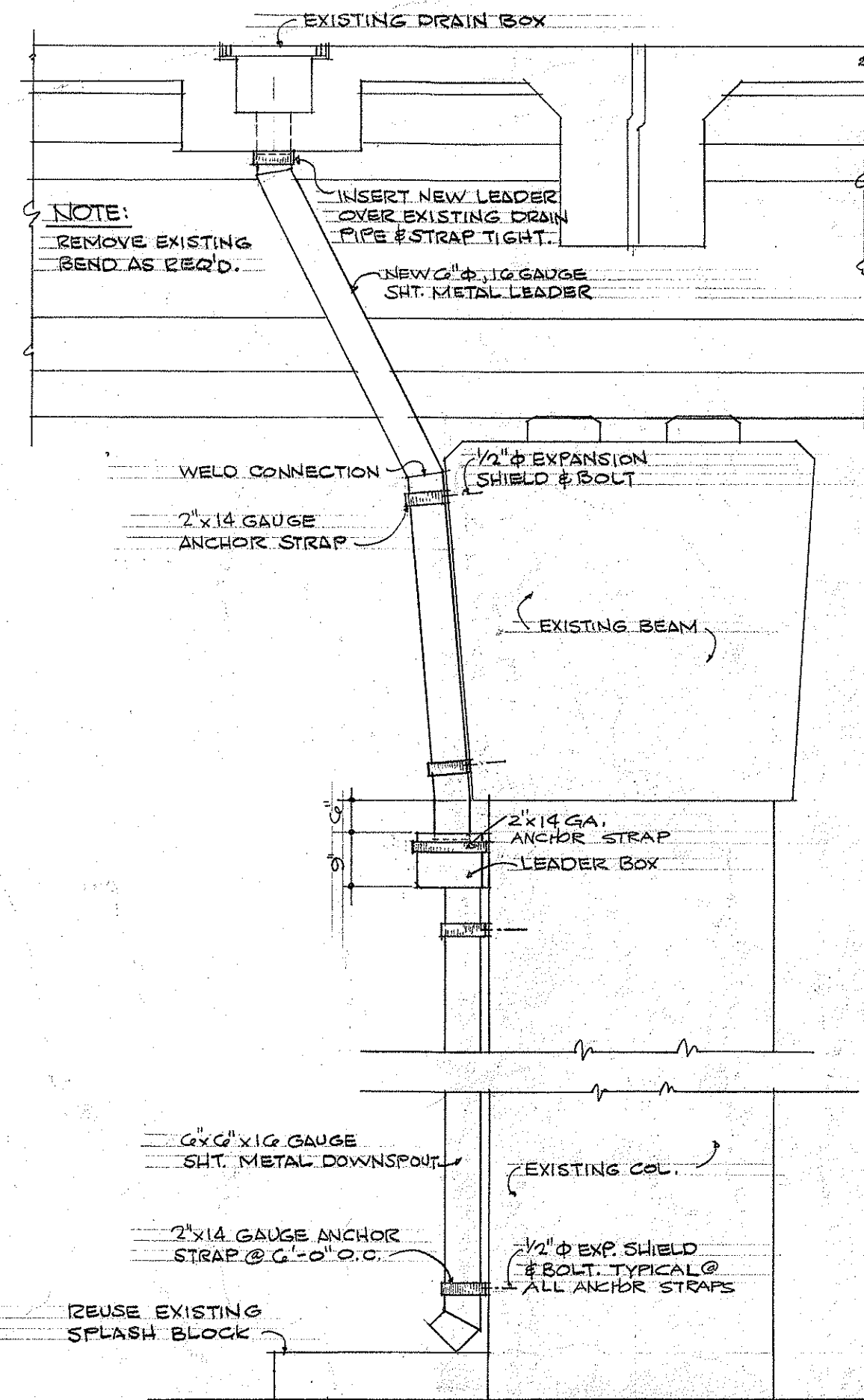
SITE & UTILITY PLAN & DETAILS

HERBERT Y. MATSUMURA & ASSOC., INC.
271 KAPOLANI BLVD. HONOLULU, HAWAII

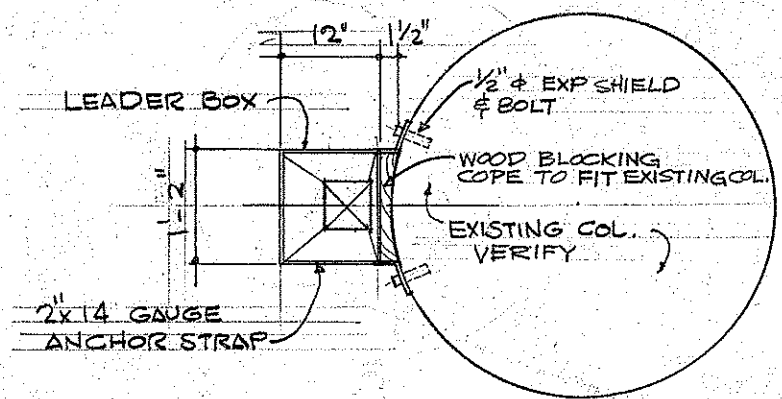
SHEET No. C-1 OF 11 SHEETS

DATE	
DESIGNED BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.				

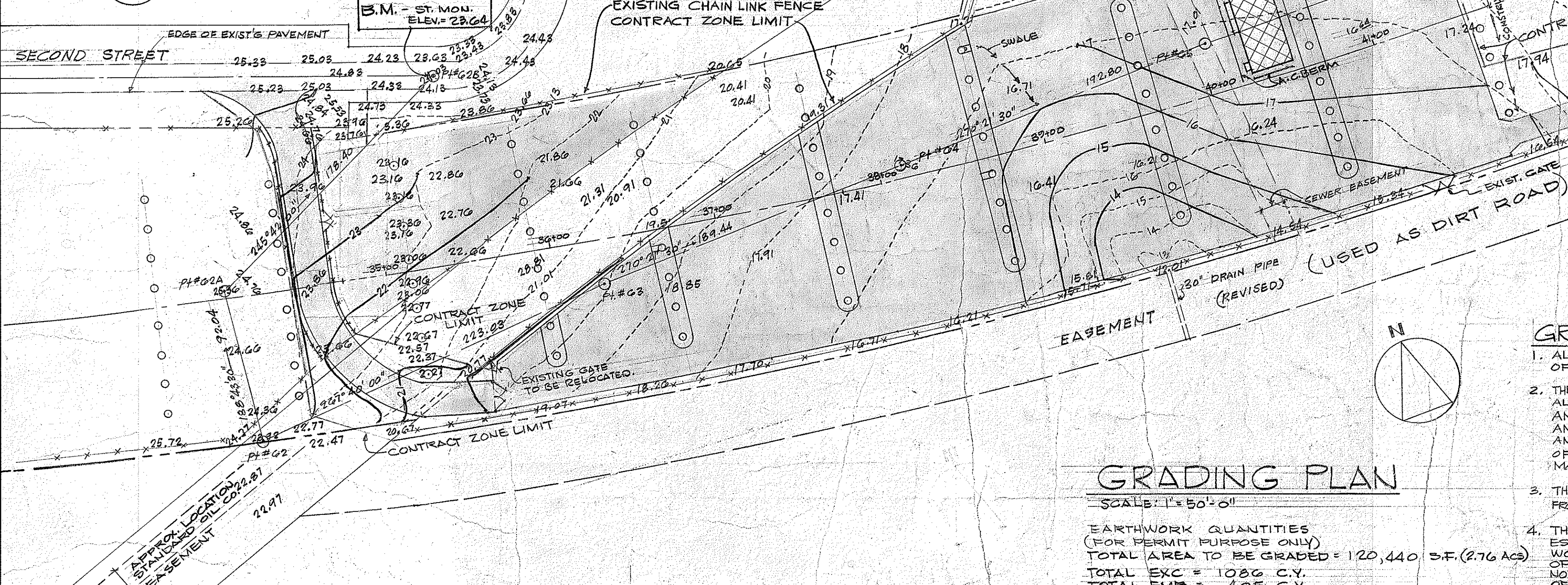


SEWER LINE PROFILE
SCALE: VERT 1" = 4'
HORIZ 1" = 4'



PLAN @ LEADER BOX
SCALE: 1/2" = 1'-0"

NEW LEADER BOX & DOWNSPOUT DET.
SCALE: 1/2" = 1'-0"



GRADING PLAN
SCALE: 1" = 50'-0"

EARTHWORK QUANTITIES
(FOR PERMIT PURPOSE ONLY)
TOTAL AREA TO BE GRADED = 120,440 S.F. (2.76 AC)
TOTAL EXC = 1086 C.Y.
TOTAL FILL = 405 C.Y.

GRADING NOTES

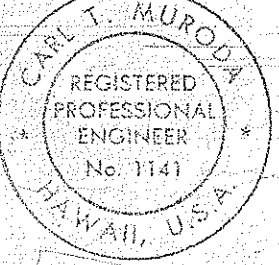
1. ALL GRADING WORK SHALL CONFORM TO CHAPTER 23, REVISED ORDINANCE OF HONOLULU 1969, AS AMENDED (ORDINANCE NO. 3008).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANING AND REMOVAL OF ALL SILT AND DEBRIS GENERATED BY THIS GRADING WORK AND DEPOSITED AND ACCUMULATED WITHIN DRAINAGE WATERWAYS, DITCHES AND DRAIN PIPES, AND ON PUBLIC ROADWAY. THE CONTRACTOR AGREES TO REIMBURSE THE CITY AND COUNTY OF HONOLULU FOR ALL COST EXPENDED IN THE PERFORMANCE OF THE ABOVE WORK IF REQUIRED FOR PUBLIC HEALTH AND SAFETY OR MADE NECESSARY BY NON-PERFORMANCE BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL KEEP THE PROJECT AND SURROUNDING AREA FREE FROM DUST AND NOISE AS SPECIFIED.
4. THE CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND LINES AND ESTABLISH PIPELINE ELEVATIONS BEFORE PRECEEDING WITH ANY GRADING WORK. GRADING FOR THE ROADWAY WHICH CROSSES THE STANDARD OIL COMPANY OF CALIFORNIA EASEMENT WITHIN THE U.S. GOVERNMENT RIGHT OF WAY SHALL NOT COMMENCE UNTIL THE PIPELINES ARE EXCAVATED AND LOCATED IN THE PRESENCE OF THE STANDARD OIL COMPANY REPRESENTATIVE.
5. ALL EXISTING PAVEMENTS, CONCRETE WALKS, UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO SEWER, WATER, ELECTRIC, GAS, FUEL, ETC., AND OTHER IMPROVEMENTS WHETHER OR NOT SHOWN ON THE DRAWINGS WHICH ARE DAMAGED OR UNDERMINED BY THE CONTRACTOR AS A RESULT OF HIS OPERATION SHALL BE RECONSTRUCTED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE TO MATCH EXISTING CONDITIONS.
6. EXCESS MATERIAL FROM THIS PROJECT WILL BE DISPOSED AT A SITE PROVIDED BY THE CONTRACTOR, AND THE CITY SHALL BE INFORMED OF THE LOCATION OF THE DISPOSAL SITE WHEN THE APPLICATION FOR A GRADING PERMIT IS MADE. THE DISPOSAL SITE MUST ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.

LEGENDS

- 22.97 THE ".dot" INDICATES THE EXACT POINT MEASURED FROM THE TRAVERSE POINT (TYP) THE NUMBERS INDICATES THE ELEVATION AT EACH POINT (TYP).
- 18 — EXISTING CONTOURS
 - 18 — FINISH CONTOURS

WATERLINE PROFILE

SCALE: VERT 1" = 4'
HORIZ 1" = 20'



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Carl T. Mupo



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Herbert Y. Matsumura

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
PEARL CITY BASEYARD	
PEARL CITY	OAHU, HAWAII
GRADING PLAN & DETAIL	
HERBERT Y. MATSUMURA & ASSOC., INC. 871 KAPOLANI BLVD. HONOLULU, HAWAII	
SHEET No. C-2 OF 11 SHEETS	

APPROVED: (FOR GRADING ONLY)	5/30/73
<i>Edward J. Smith</i> DIRECTOR, CHIEF ENGINEER DEPT. OF PUBLIC WORKS	DATE
CHIEF DIVISION OF ENGINEERING	5/29/73
APPROVED: (FOR SEWER LATERAL ONLY)	5/22/73
<i>Jim</i> CHIEF DIVISION OF SEWER	DATE

DATE	5/30/73
SYMBOL	
PLAN	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL	
NOTE BOOK	
NO.	