

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-41-1(109)13	1975	85	130

GENERAL WATER NOTES

(BOARD OF WATER SUPPLY)

1. THE CONTRACTOR SHALL NOTIFY THE BOARD OF WATER SUPPLY IN WRITING ONE WEEK PRIOR TO COMMENCING WORK ON THE WATER SYSTEM.
2. PRIOR TO EXCAVATING FOR NEW DRAIN, SEWER AND OTHER UTILITY LINES, THE CONTRACTOR SHALL VERIFY IN THE FIELD THE LOCATION OF EXISTING WATER MAINS AND APPURTENANCES.
3. ASTERISK (*) INDICATES WORK TO BE PERFORMED BY B.W.S. MATERIALS TO BE FURNISHED BY THE CONTRACTOR UNLESS SPECIFIED AS "RELOCATE".
4. APPROVAL BY THE BOARD OF WATER SUPPLY IS ONLY TO ASSURE THAT ADJUSTMENTS TO THE WATER SYSTEM ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE B.W.S. STANDARDS, DISCREPANCIES IF ANY, OF ALIGNMENTS, GRADES, FITTINGS, ETC., SHALL BE THE RESPONSIBILITY OF THE ENGINEER WHO PREPARES THE PLAN.
5. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS AND CONSTRUCTION OF WATER SYSTEM FACILITIES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 1969, AS AMENDED, OF THE HAWAII HIGHWAYS DIVISION, DEPARTMENT OF TRANSPORTATION.
6. WHERE THE INSTALLATION OF NEW DRAIN, SEWER OR OTHER UTILITY LINES ARE TO CROSS OVER OR UNDER EXISTING WATER MAINS, THE CONTRACTOR SHALL EXPOSE THE EXISTING WATER MAINS PRIOR TO TRENCHING. EXCAVATION AROUND WATER MAINS SHALL BE DONE BY HAND.
7. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES AS SHOWN ON THE PLANS ARE FROM THE LATEST AVAILABLE DATA BUT ARE NOT GUARANTEED AS TO THE ACCURACY OR THAT OTHER OBSTACLES MAY NOT BE ENCOUNTERED IN THE COURSE OF THE WORK, THE CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ANY DAMAGES TO THE EXISTING MAIN.
8. ANY ADJUSTMENT TO THE WATER MAINS AND APPURTENANCES, WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT SHALL BE MADE A PART OF THE PROJECT.
9. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN DOING WORK OVER THE EXISTING 42" MAIN.

GENERAL TELEPHONE NOTES (H.T. CO.)

A. H.T. CO. CABLES:

1. EXCAVATION OF POLES AND ANCHORS AND INSTALLATION OF ANCHORS BY THE CONTRACTOR.
2. ALL MANHOLES, HANDHOLES, PULLBOXES, CONDUITS AND C-BENDS TO BE INSTALLED BY THE CONTRACTOR.
3. ALL MATERIALS TO BE FURNISHED BY H.T. CO. UNLESS NOTED OTHERWISE.
4. ALL WORK TO BE DONE IN ACCORDANCE WITH H.T. CO., STANDARD DRAWINGS.
5. H.T. CO., TO REMOVE POLES AND CABLES.

(CONTINUED)

B. TRANSPACIFIC LAND CABLES:

1. EXISTING TRANSPACIFIC LAND CABLES TO REMAIN IN PLACE UNTIL RELOCATED SECTION IS CUT-OVER.
2. ALL TRENCHING, BACKFILLING, DIGGING OF SPlice PITS AND INSTALLATION OF THE 4" GALVANIZED STEEL PIPE BY THE CONTRACTOR. H.T. CO., TO FURNISH MATERIALS.
3. H.T. CO., TO FURNISH, INSTALL AND SPlice TRANSPACIFIC LAND CABLES.
4. CONTRACTOR TO TRENCH AND BACKFILL THE LENGTH OF THE UTILITY CORRIDOR FOR PERMANENT RELOCATION OF THE TRANSPACIFIC LAND CABLES.
5. SPlice PIT LOCATIONS ARE APPROXIMATE. H.T. CO. INSPECTOR TO VERIFY LOCATIONS IN THE FIELD.

C. JOINT TRUNKING SYSTEM CABLES:

1. EXISTING JOINT TRUNKING SYSTEM CABLES TO REMAIN IN PLACE UNTIL RELOCATED SECTION IS CUT-OVER.
2. ALL TRENCHING, BACKFILLING AND DIGGING OF SPlice PITS BY THE CONTRACTOR.
3. H.T. CO., TO FURNISH, INSTALL AND SPlice JOINT TRUNKING SYSTEM CABLES.
4. SPlice PIT LOCATIONS ARE APPROXIMATE. H.T. CO. INSPECTOR TO VERIFY LOCATIONS IN THE FIELD.

A. H.T. CO. CABLES (CONTINUED):

6. POLES AND ANCHORS ARE FOR H.E. CO. UNLESS OTHERWISE INDICATED.
7. DEPTH OF POLES AND ANCHOR HOLES ARE TAKEN FROM FINISH GRADE.
8. FOR POLE SETTING DEPTH DATA, SEE SHEET NO. 24U.
9. ALL DUCTS AND CONDUITS CALLED FOR INSTALLATION IN CONCRETE JACKET SHALL BE INSPECTED AND APPROVED BY THE ENGINEER OF H.T. CO., OR H.T. CO. REPRESENTATIVE BEFORE CONCRETE PLACING. 24 HR. (MIN.) NOTICE SHALL BE GIVEN BEFORE PLACING CONCRETE.
10. MINIMUM DEPTH OF DUCT LINES FROM FINISH GRADE TO TOP OF CONCRETE JACKET WHERE DUCTS ARE CONCRETE ENCASED = 2'-0" UNLESS OTHERWISE SHOWN. WITHIN INTERSTATE ROUTE H-3 R/W, MINIMUM DEPTH SHALL BE 3'-0".
11. DUCTS ENCASED IN CONCRETE JACKETS:
 - a. NORMAL DISTANCE FACE OF JACKET TO ALL DUCTS TO BE 3" MINIMUM.
 - b. CLEAR DISTANCE OF 1 1/2" MINIMUM BETWEEN DUCTS OF SAME UTILITY COMPANY.
 - c. CLEAR DISTANCE OF 3" MINIMUM BETWEEN H.E. CO. DUCTS AND H.T. CO. DUCTS.
12. LOCATION AND DEPTH OF ALL PULLBOXES, SERVICE BOXES, HANDHOLES, MANHOLES, DUCT LINES, POLES AND ANCHORS TO BE VERIFIED AND APPROVED IN THE FIELD BY H.T. CO. PRIOR TO EXCAVATION, CONSTRUCTION AND INSTALLATION.
13. THE CONTRACTOR SHALL NOTIFY H.T. CO. IN WRITING 20 WORKING DAYS PRIOR TO COMMENCING WORK ON H.T. CO. UTILITY SYSTEM.
14. EXISTING TELEPHONE FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THEIR ACTUAL LOCATION AND SHALL MAKE ADJUSTMENTS TO ANY NEW OR EXISTING FACILITY AS DIRECTED BY THE ENGINEER.

GENERAL AVGAS NOTES (NAVY)

1. THE CONTRACTOR SHALL COORDINATE ALL WORK ON THE AVGAS LINE WITH THE NAVY SUPPLY CENTER (PHONE 43-57128, MR. MILLER)
2. THE CONTRACTOR SHALL NOTIFY THE NAVY IN WRITING FIFTEEN (15) DAYS PRIOR TO COMMENCING WORK ON THE AVGAS LINE.

GENERAL NOTES

(NAVY-ELECTRIC SYSTEM) ALSO SEE NOTES 8 THRU 10 OF H.E. CO.

1. THE CONTRACTOR SHALL COORDINATE ALL WORK ON NAVY UTILITIES WITH THE NAVY PUBLIC WORKS CENTER (PHONE EXTENSION 291021). ALL SALVAGED MATERIAL IS TO BE STOCKPILED, AND THE NAVY PUBLIC WORKS CENTER NOTIFIED WHEN AVAILABLE FOR PICKUP.
2. EXISTING ELECTRIC SYSTEMS SHOWN ON THESE PLANS ARE LOCATED FROM THE BEST SOURCES AVAILABLE. THE CONTRACTOR SHALL CHECK AND VERIFY THE EXACT LOCATION OF SAME PRIOR TO START OF CONSTRUCTION OPERATIONS.
3. CONTRACTOR TO STAKE OUT NAVY DUCT LINES, POLE AND ANCHOR LOCATIONS; NAVY TO CHECK LOCATIONS BEFORE CONTRACTOR UNDERTAKES EXCAVATION, INSTALLATION AND BACKFILL.
4. FOR POLE SETTING DEPTH AND ANCHOR DATA, SEE SHEET NOS. 24U & 25U.
5. ALL DUCTS AND CONDUITS CALLED FOR INSTALLATION IN CONCRETE JACKET SHALL BE INSPECTED AND APPROVED BY THE NAVY BEFORE CONCRETE PLACING. 72 HOURS (MINIMUM) NOTICE SHALL BE GIVEN BEFORE PLACING CONCRETE.

GENERAL NOTES (NAVY-SEWER)

1. THE CONTRACTOR SHALL COORDINATE ALL WORK ON NAVY UTILITIES WITH THE NAVY PUBLIC WORKS CENTER (PHONE EXTENSION 291021). ALL SALVAGED MATERIAL IS TO BE STOCKPILED, AND THE NAVY PUBLIC WORKS CENTER IS TO BE NOTIFIED WHEN AVAILABLE FOR PICKUP.
2. ALL EXCAVATION AND BACKFILL SHALL BE DONE BY THE CONTRACTOR, INCLUDING EXCAVATION FOR THE RELOCATION OF EXISTING LINES.
3. THE LOCATION OF EXISTING SEWER LINE AND APPURTENANCES SHOWN ON THE PLANS ARE APPROXIMATE ONLY AND THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION.
4. UNLESS OTHERWISE NOTED, DETAILS OF PROPOSED SANITARY SEWER FACILITIES FOR THE U. S. NAVY SHALL CONFORM TO THE STANDARD DETAILS OF THE CITY AND COUNTY OF HONOLULU. MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF SECTION 625 OF THE STATE OF HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1969.

GENERAL GAS NOTES (H.G. CO.)

1. ALL WORK REQUIRED FOR THE INSTALLATION OF THE RELOCATED GAS MAIN AND FACILITIES SHALL BE DONE BY THE CONTRACTOR. CONTRACTOR SHALL FURNISH LABOR AND EQUIPMENT FOR EXCAVATION, CUSHIONING, BACKFILLING, HANDLING AND STAINING GAS PIPING, FABRICATING AND WELDING THE GAS PIPING AND TESTING AFTER RELOCATION.
2. THE CONTRACTOR SHALL NOTIFY THE HONOLULU GAS COMPANY, LTD. AT LEAST 10 CALENDAR DAYS IN ADVANCE OF RELOCATION OPERATIONS AND SHALL COORDINATE HIS WORK WITH THE GAS COMPANY.
3. THE CONTRACTOR SHALL CHECK AND VERIFY THE EXACT LOCATION AND DEPTH OF EXISTING GAS LINE PRIOR TO START OF CONSTRUCTION OPERATIONS.

GENERAL ELECTRIC NOTES (H.E. CO.)

1. WOOD AND STEEL POLES AND ANCHOR LOCATIONS TO BE STAKED OUT BY THE CONTRACTOR AND VERIFIED BY H.E. CO.
2. H.E. CO. TO FURNISH STEEL POLES AND H.E. CO.'S CONTRACTOR TO CONSTRUCT FOUNDATIONS AND INSTALL STEEL POLES.
3. EXCAVATION OF POLE HOLES AND ANCHORS, INSTALLATION OF POLES AND ANCHORS, AND BACKFILL OF POLES AND ANCHORS BY OTHERS.
4. POLES AND ANCHORS AS INDICATED H.E. CO. WILL BE INSTALLED BY H.E. CO.'S CONTRACTOR.
5. DEPTH OF POLES AND ANCHOR HOLES ARE TAKEN FROM FINISH GRADE.
6. FOR POLE SETTING DEPTH DATA, SEE SHEET NO. 24U.
7. ALL DUCTS AND CONDUITS CALLED FOR INSTALLATION IN CONCRETE JACKET SHALL BE INSPECTED AND APPROVED BY THE ENGINEER OF H.E. CO., OR H.E. CO. REPRESENTATIVE BEFORE CONCRETE PLACING. 24 HR. (MIN.) NOTICE SHALL BE GIVEN BEFORE PLACING CONCRETE.
8. MINIMUM DEPTH OF DUCT LINES FROM FINISH GRADE TO TOP OF CONCRETE JACKET WHERE DUCTS ARE CONCRETE ENCASED = 3'-0" UNLESS OTHERWISE SHOWN. OUTSIDE INTERSTATE ROUTE H-3 R/W, MINIMUM DEPTH SHALL BE 3'-0".
9. DUCTS ENCASED IN CONCRETE JACKETS:
 - a. NORMAL DISTANCE FACE OF JACKET TO ALL DUCTS TO BE 3" MINIMUM.
 - b. CLEAR DISTANCE OF 1 1/2" MINIMUM BETWEEN DUCTS.
 - c. CLEAR DISTANCE OF 3" MINIMUM BETWEEN H.E. CO. DUCTS AND H.T. CO. DUCTS.
10. LOCATION AND DEPTH OF ALL PULLBOXES, SERVICE BOXES, HANDHOLES AND MANHOLES TO BE VERIFIED AND APPROVED IN THE FIELD BY H.E. CO. PRIOR TO EXCAVATION, CONSTRUCTION OR INSTALLATION.
11. THE CONTRACTOR SHALL NOTIFY H.E. COMPANY IN WRITING 20 WORKING DAYS PRIOR TO COMMENCING WORK ON THEIR RESPECTIVE UTILITY SYSTEM.
12. EXISTING ELECTRIC FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THEIR ACTUAL LOCATIONS AND SHALL MAKE ADJUSTMENTS TO ANY NEW OR EXISTING FACILITY AS DIRECTED BY THE ENGINEER.
13. CONSTRUCT ALL MANHOLE NECKS PER DETAIL "C-C" DRAWING 16688.
14. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS TO COMPLETE CONSTRUCTION OF UNDERGROUND DUCTLINE SYSTEM INCLUDING RISER CONDUITS.
15. H.E. CO. IS TO COORDINATE ITS WORK WITH THE STATE'S CONTRACTOR IN SUCH A MANNER AS NOT TO IMPEDE CONSTRUCTION.
16. ALL EXISTING H.E. CO. FACILITIES SHALL REMAIN IN PLACE UNTIL THE PROPOSED FACILITIES ARE PROVIDED. ANY COST FOR TEMPORARY RELOCATIONS ARISING DURING CONSTRUCTION SHALL BE BORNE BY THE STATE'S CONTRACTOR.
17. H.E. CO. TO MANDREL TEST ALL ITS DUCTLINES.
18. MANHOLE FRAMES AND COVERS TO BE 31".

APPROVED

A. Kawahara 3/1/71
ASSIST. CHIEF ENGINEER, B.W.S. CO. DATE

E. Bone 3/8/71
CHIEF, DIV. OF SEWERS DATE

W. K. Sato 5/20/71
HAWAIIAN ELECTRIC CO., INC. JK EN DATE

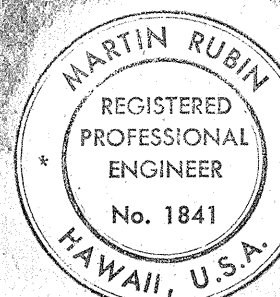
W. A. Field 2-8-71
HAWAIIAN TELEPHONE CO., LTD. DATE

Paul C. Jones 1-30-71
HONOLULU GAS CO. DATE

Alvin K. Latta 3/1/71
DIRECTOR & BLDG. SUPERINTENDENT DATE

GENERAL SEWER NOTES (CITY)

1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY'S STANDARD SPECIFICATIONS, NOVEMBER 1968; THE DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS, JULY, 1965; AND THE REVISED ORDINANCES OF HONOLULU, SEPTEMBER 28, 1961.
2. THE CONTRACTOR SHALL NOTIFY THE DIVISION OF SEWERS 10 DAYS PRIOR TO COMMENCEMENT OF SEWER WORK.
3. TOP OF SEWER MANHOLES IN BASEMENTS SHALL BE FOUR (4) INCHES ABOVE GROUND UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. CRUSHED ROCK CRADLE WILL BE PERMITTED WHERE THE SOIL IS STABLE. IN AREAS OF UNSTABLE SOIL THE ENGINEER AND THE SEWER ENGINEER (C&C) WILL DETERMINE THE PIPE SUPPORT REQUIRED.
5. ALL FRAMES AND COVERS ON EXISTING SEWER MANHOLES TO BE DEMOLISHED SHALL BE CLEANED AND REUSED ON NEW SEWER MANHOLES OR RETURNED TO THE CITY AND COUNTY AS DIRECTED BY THE SEWER ENGINEER (C&C).
6. LOCATIONS OF PROPOSED LINES, UNLESS OTHERWISE NOTED, ARE TO BE CONSIDERED DIAGRAMMATIC. UPON VERIFICATION IN THE FIELD OF THE LOCATION OF EXISTING LINES, THE FINAL LOCATION OF THE PROPOSED LINES SHALL BE DETERMINED SUBJECT TO THE APPROVAL OF THE ENGINEER AND CITY AND COUNTY OF HONOLULU.
7. CUTTING AND PLUGGING OF EXISTING SEWERS AND SEWER LATERALS IS TO BE CONSIDERED INCIDENTAL EXCEPT FOR CHANNELING IN EXISTING MANHOLES, WHICH WORK IS TO BE DONE BY THE DIVISION OF SEWERS (C&C).
8. RESTORATION OF EXISTING STREETS AND OTHER IMPROVEMENTS TO BE INCIDENTAL.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Martin Rubin

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL UTILITY NOTES

INTERSTATE ROUTE H-1
PROJECT NO. I-41-1(109)13

NO SCALE DATE: DEC. 29, 1972

SHEET No. 111 OF 4 SHEETS

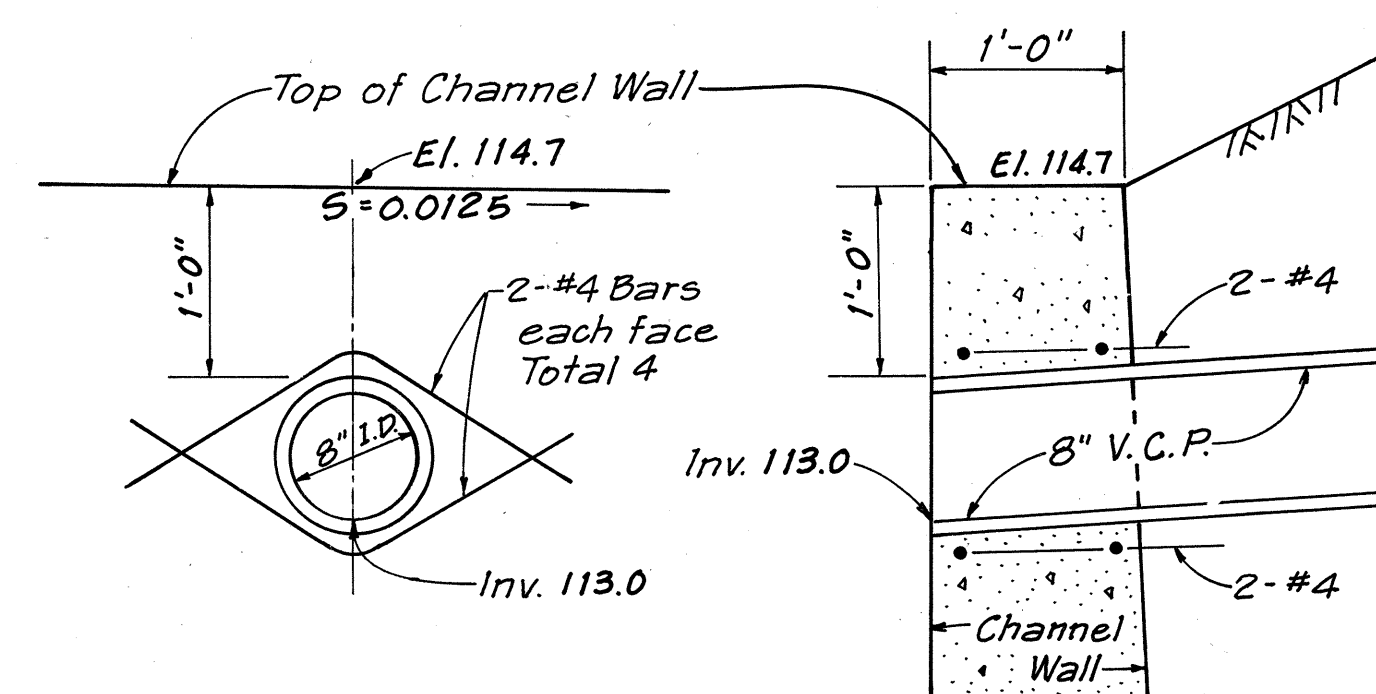
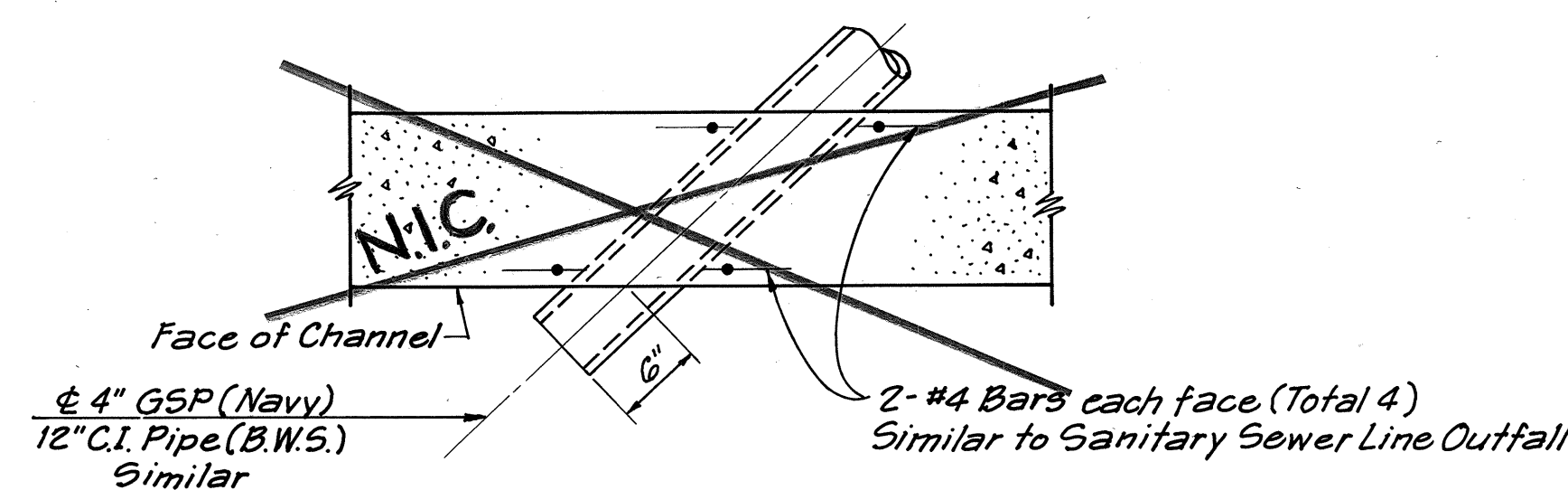
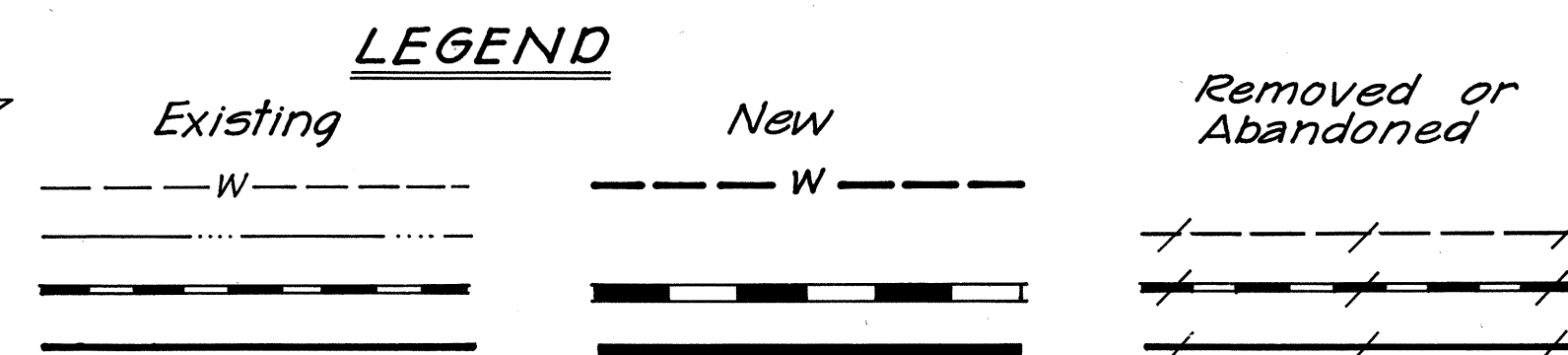
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(109):13	1975	86	130

APPROVED

Director & Bldg. Superintendent Date

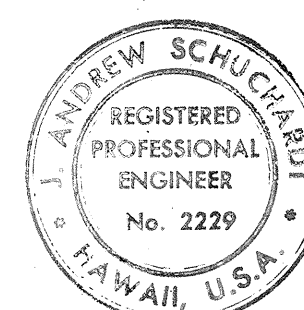
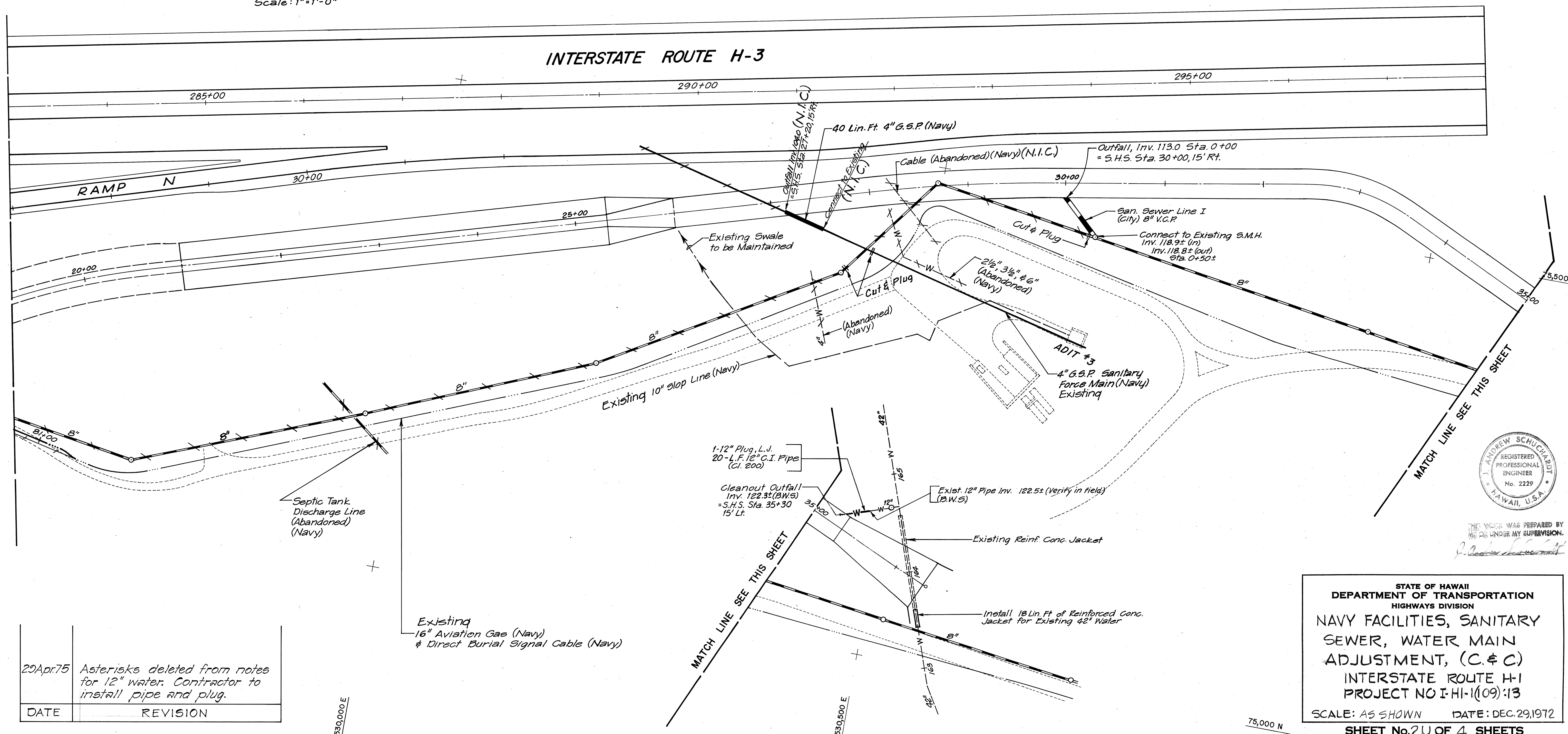
Assistant Chief Engineer, B.W.S. Date

Denotes Utility Ownership
Water (B.W.S.)
Aviation Gas (Navy)
San. Sewer (City)
Force Main (Navy)



SANITARY SEWER LINE I OUTFALL

INTERSTATE ROUTE H-3



THIS WORK WAS PREPARED BY ME AS UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
NAVY FACILITIES, SANITARY
SEWER, WATER MAIN
ADJUSTMENT, (C. & C)
INTERSTATE ROUTE H-1
PROJECT NO I-HI-1(109):13

SCALE: AS SHOWN DATE: DEC. 29, 1972
SHEET No. 2U OF 4 SHEETS

86R

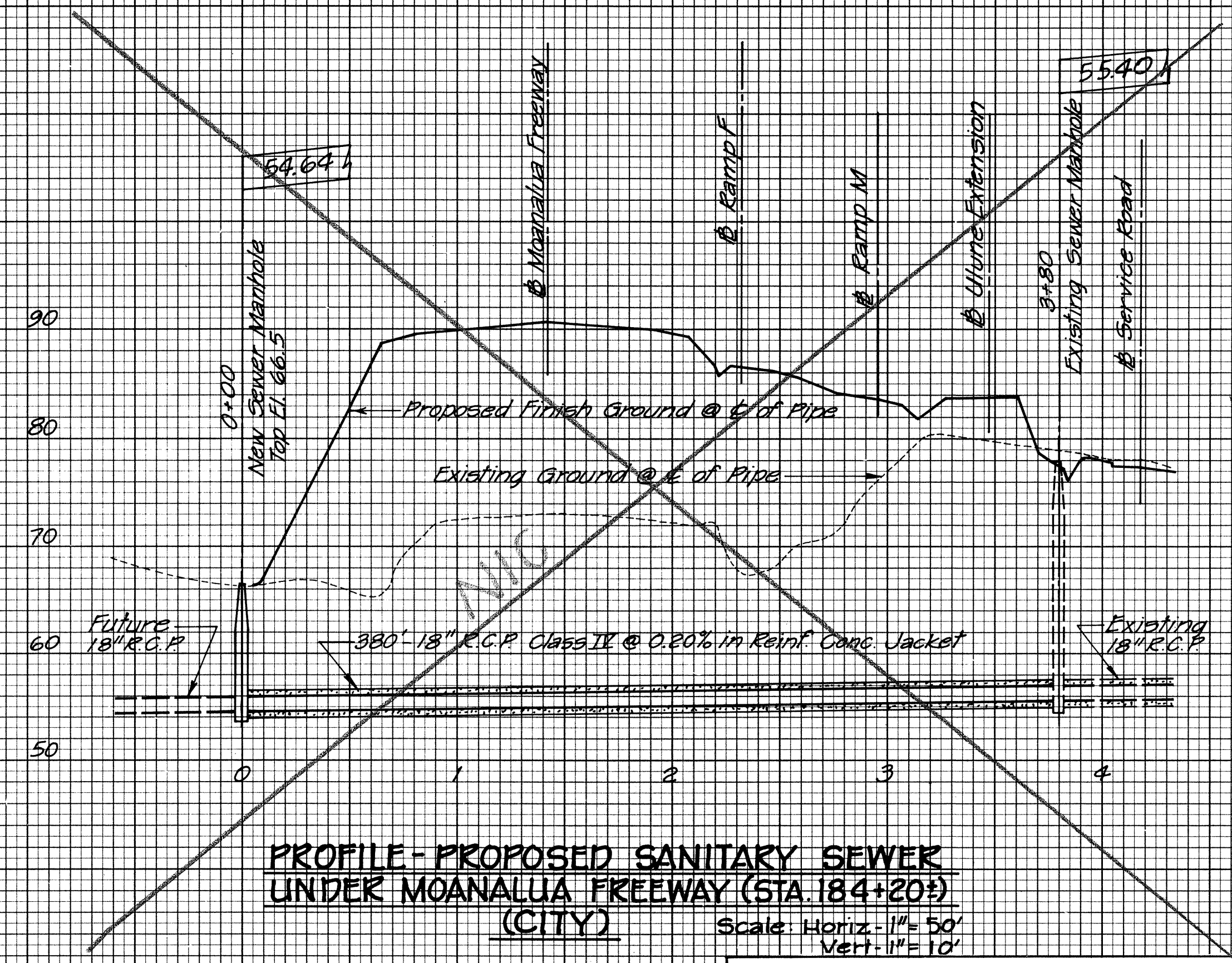
29 Apr 75 Asterisks deleted from notes for 12" water. Contractor to install pipe and plug.

DATE REVISION

ORIGINAL PLAN	DATE
SURVEY PLATTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

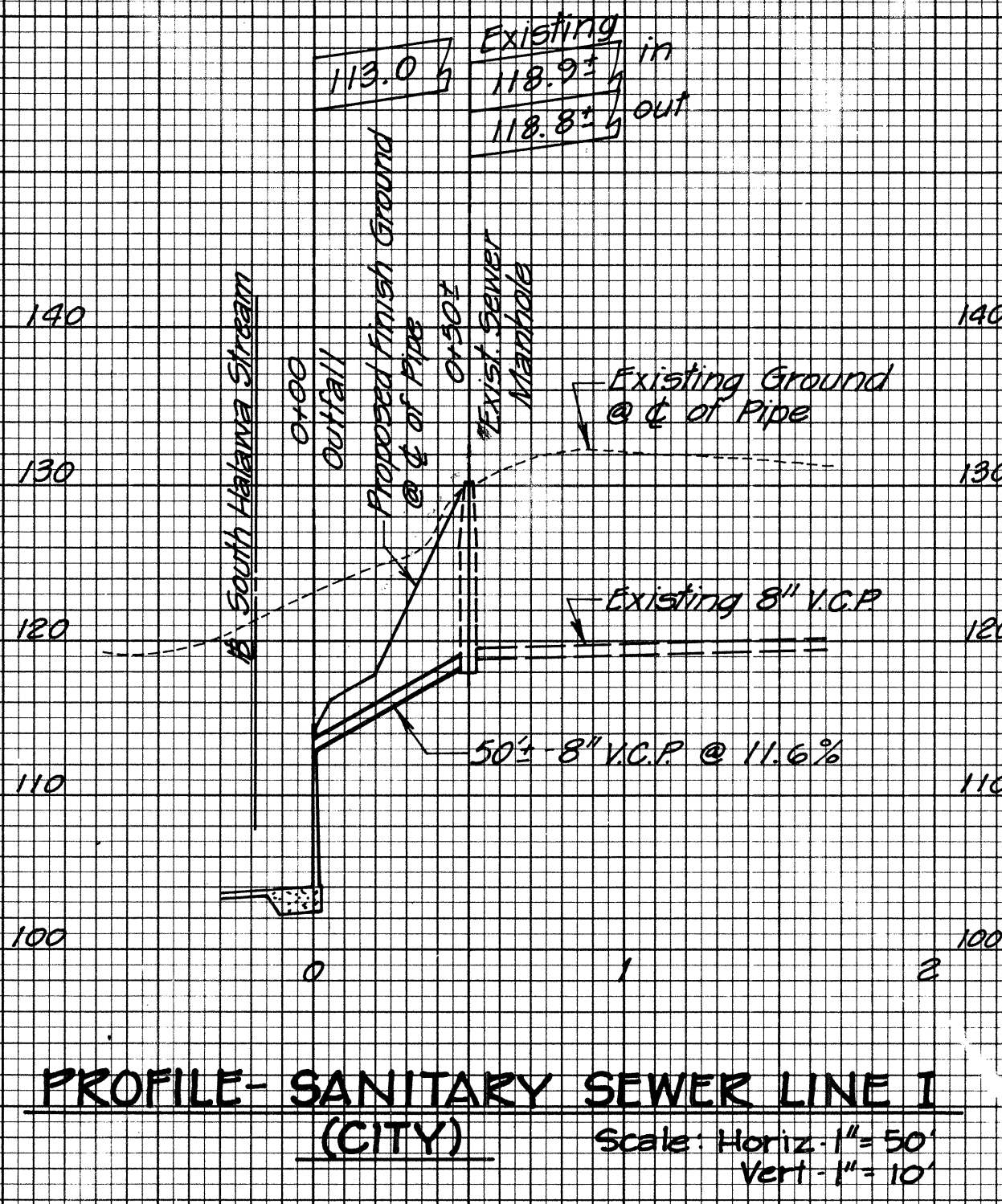
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-41-1009-13	1975	87	130

FINAL SURVEY	DATE
SURVEYED	BY
NOTED	BY
PLOTTED	BY
REVIEWED	BY
NO.	



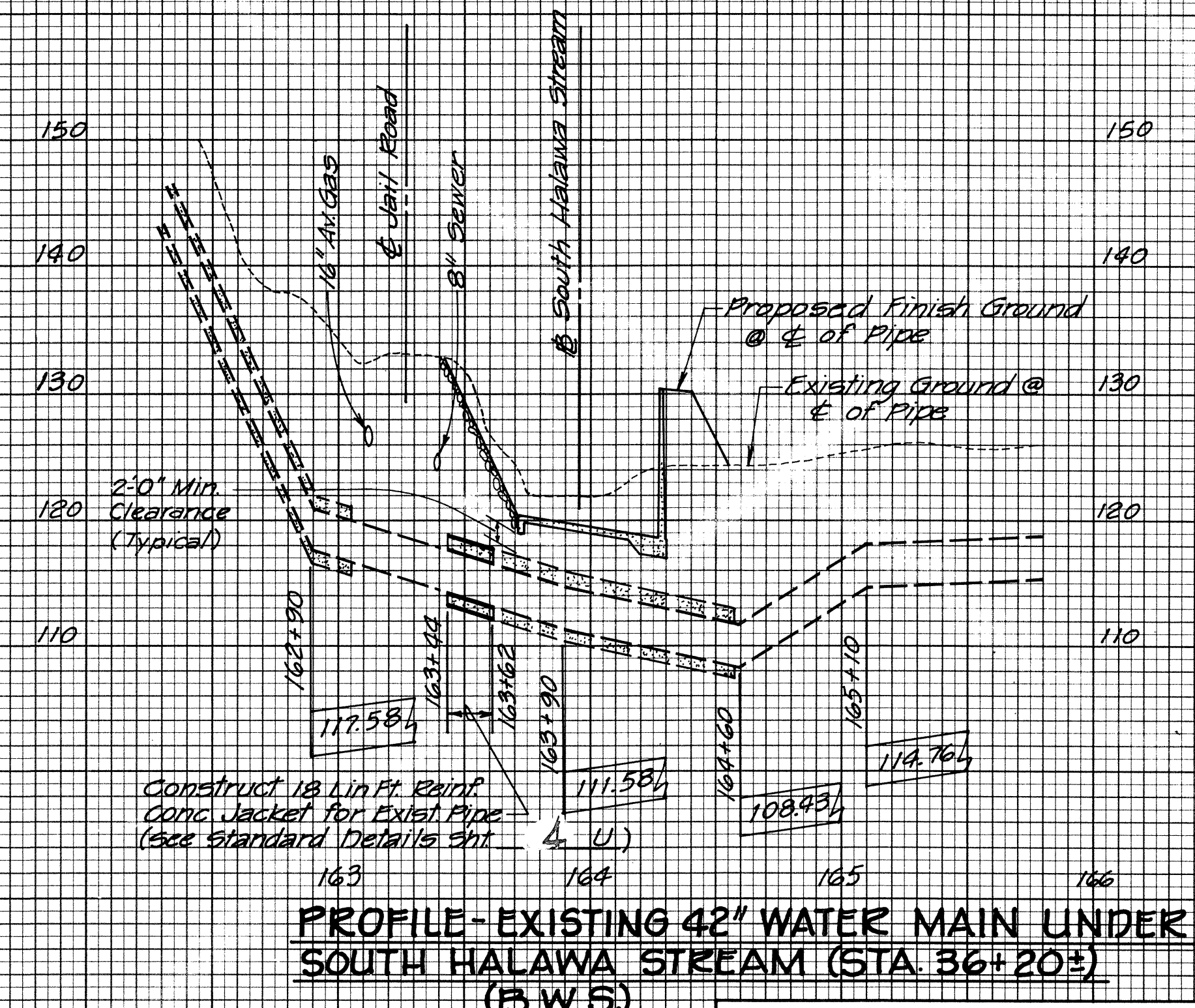
APPROVED

Edoua
Chief, Division of Sewers *at* 2/8/71
Date



APPROVED

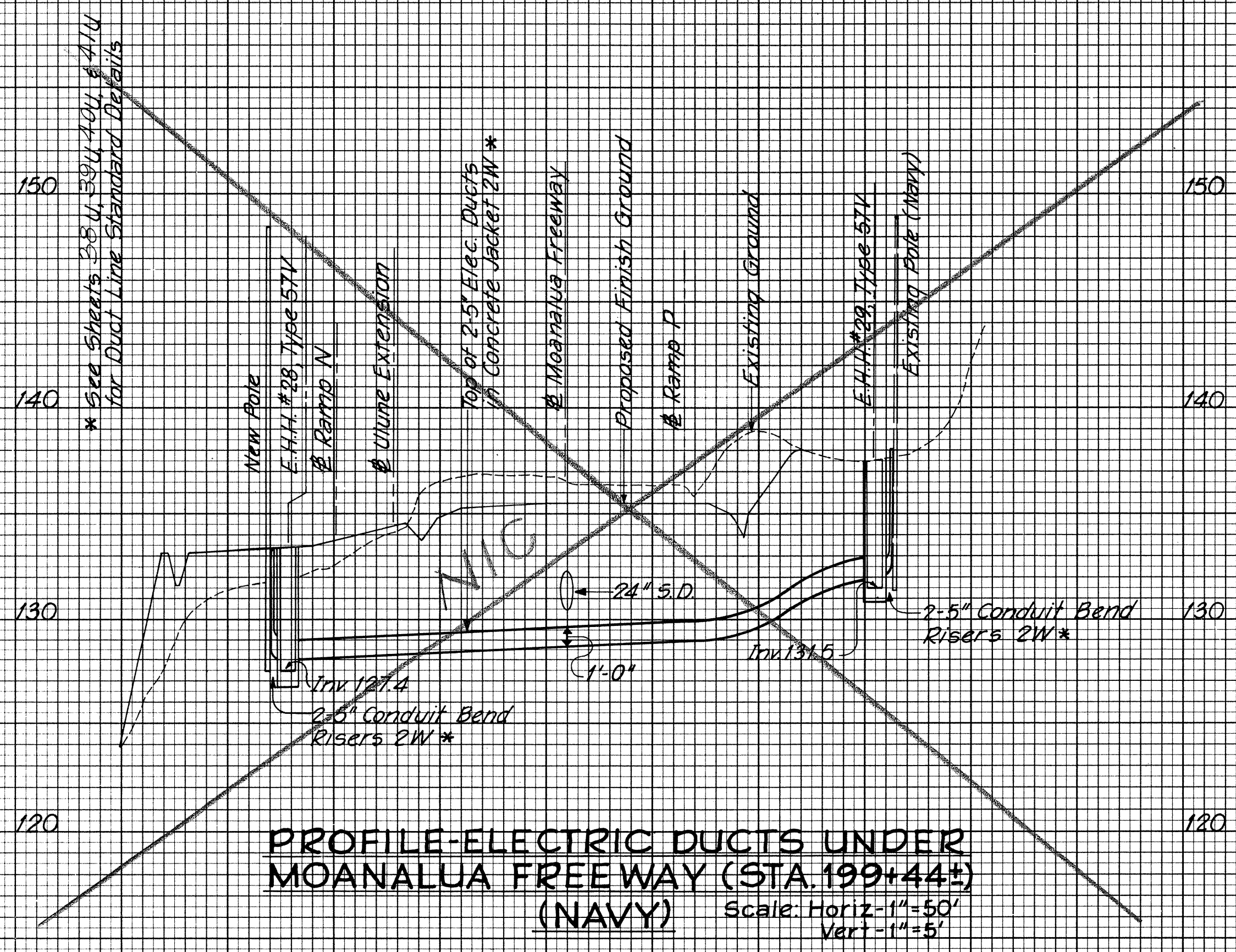
Director & Bldg. Superintendent *at* _____
Date



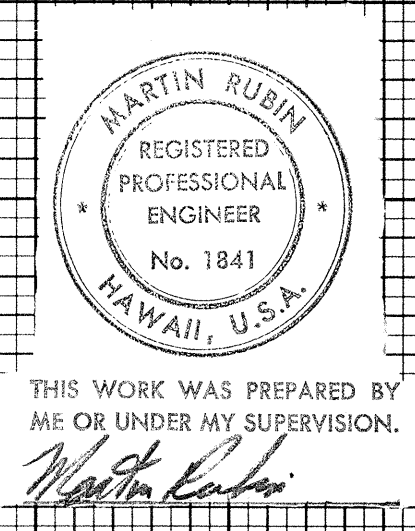
APPROVED

Assistant Chief Engineer, B.W.S. *at* _____
Date

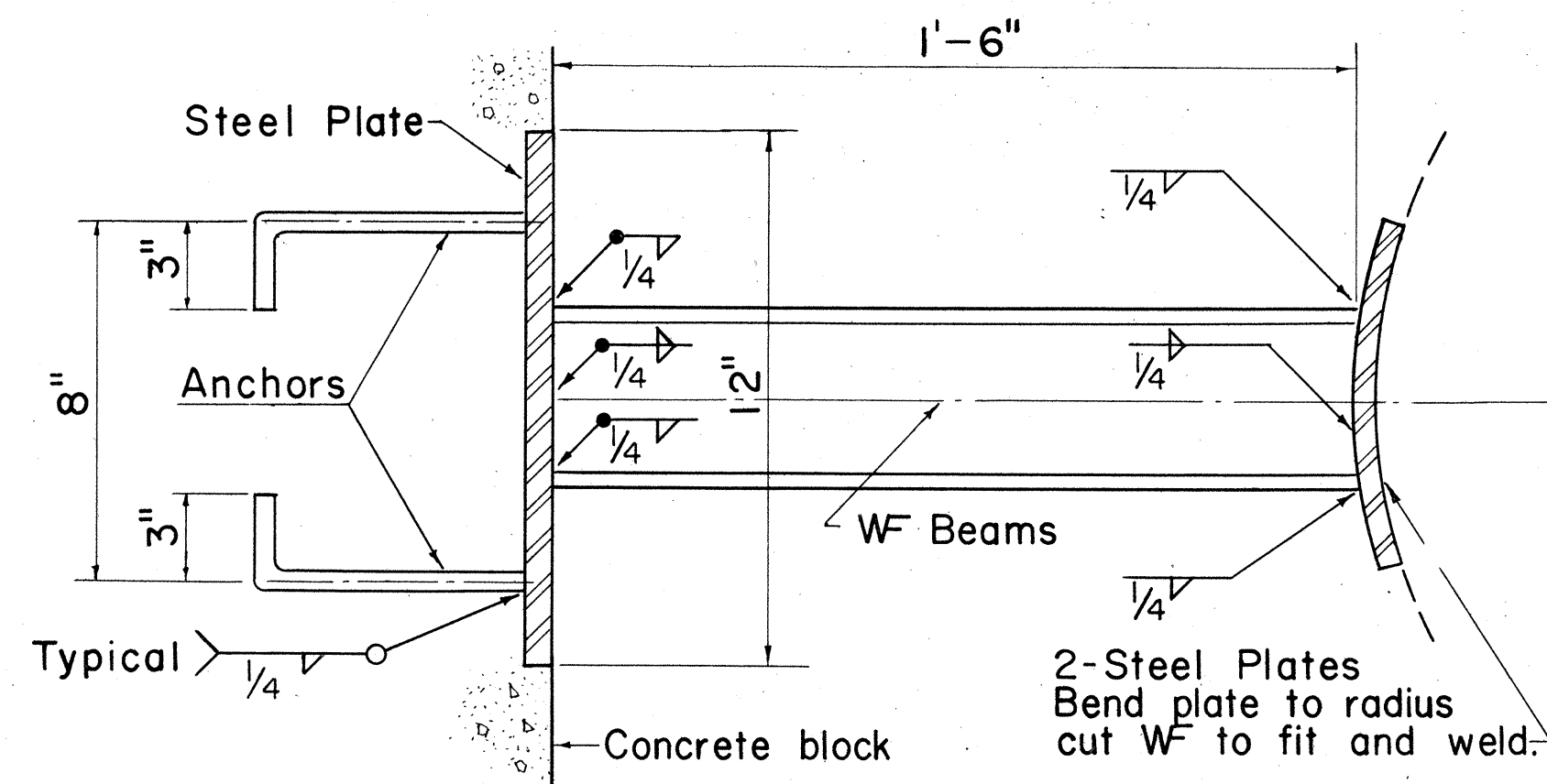
ORIGINAL SURVEY	DATE
SURVEYED	BY
NOTED	BY
PLOTTED	BY
REVIEWED	BY
NO.	



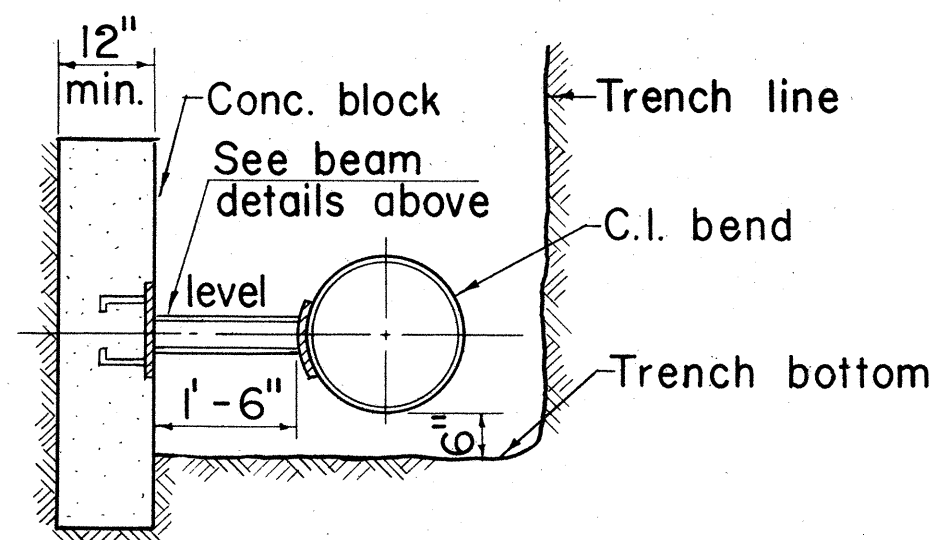
PROFILE-ELECTRIC DUCTS UNDER MOANALUA FREEWAY (STA. 199+44.5) (NAVY)
Scale: Horiz. 1"=50', Vert. 1"=5'



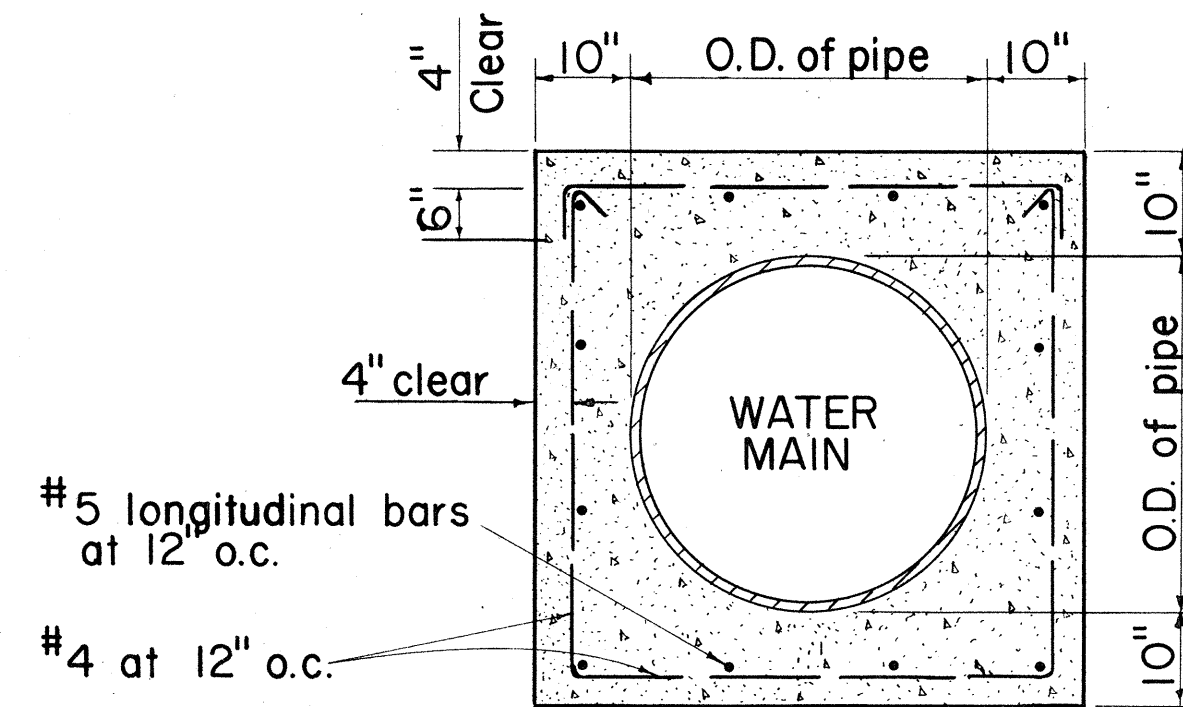
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-HI-1(109)-13	1975	88	130



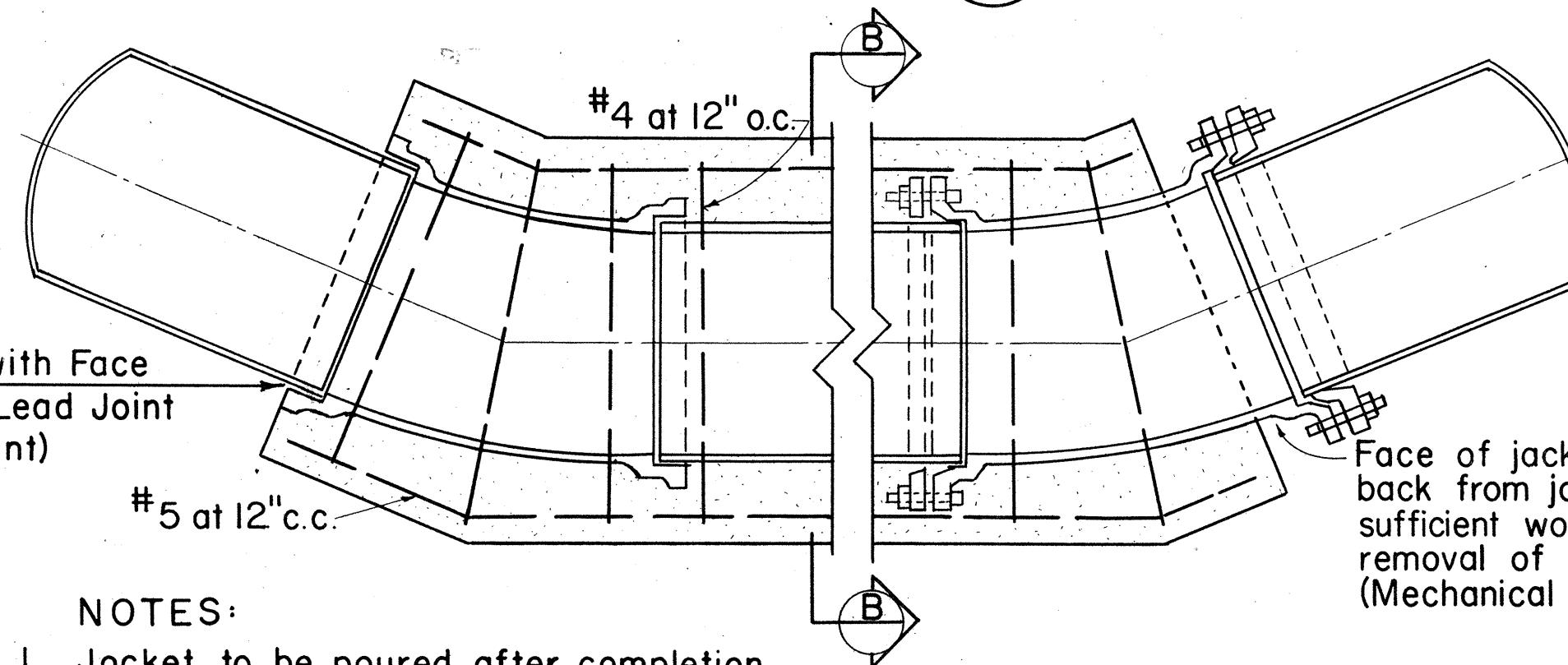
BEAM DETAIL
Scale: 3" = 1'-0"



SECTION C
Scale: 1/2" = 1'-0"



SECTION B

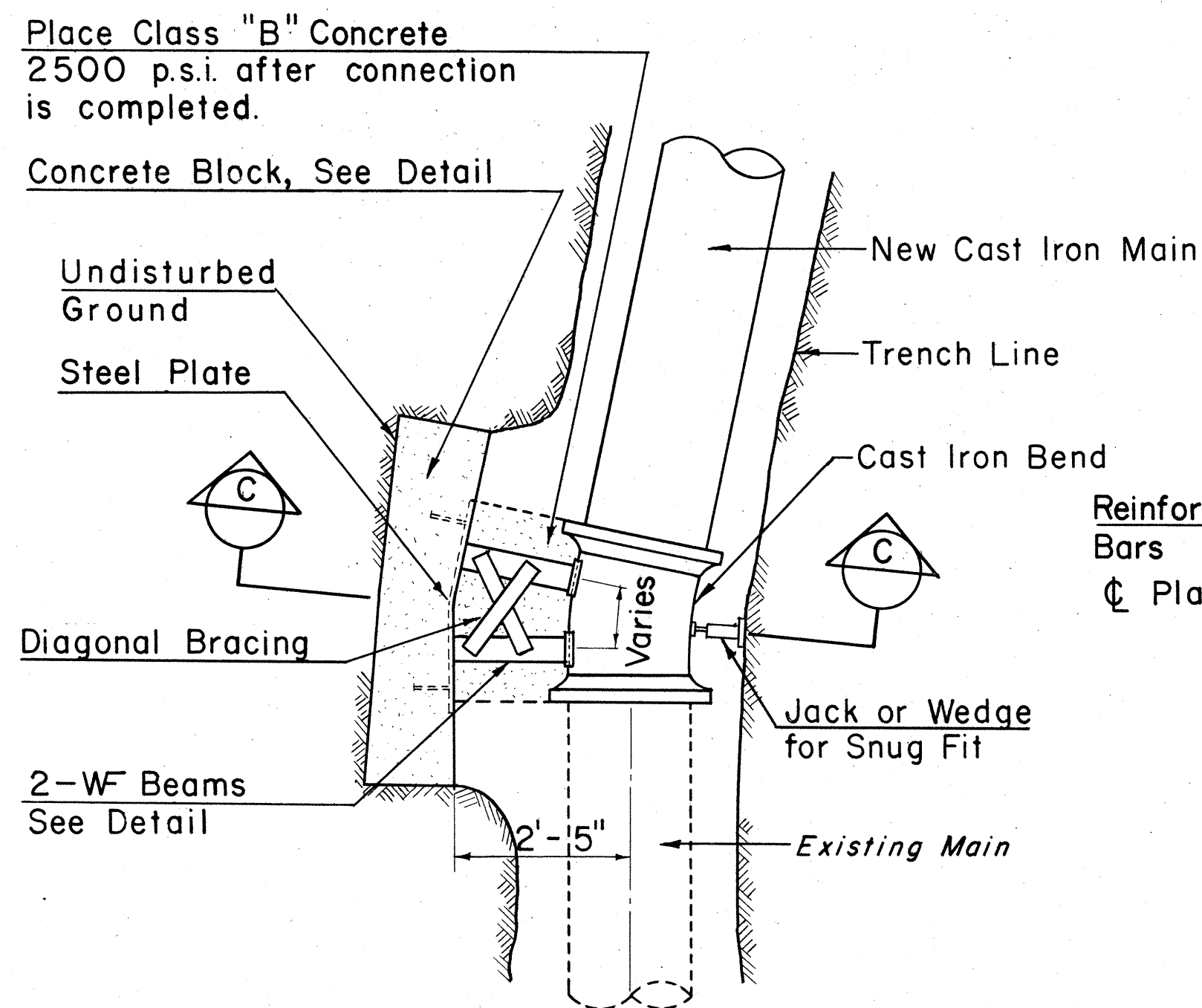


NOTES:

1. Jacket to be poured after completion of test unless otherwise approved by the Engineer.
2. 2 1/2" depth of lead for lead joint pipe required at all embedded joints.
3. Wherever construction joints are required, 6" rubber or neoprene waterstops shall be installed. Waterstops shall be of the type specified and manufactured by the Servicized Products Corporation, Gate Rubber Company or approved equal.

REINFORCED CONCRETE JACKET

Scale: Not to Scale
(FIGURE 17)



PLAN

Scale: 1/2" = 1'-0"

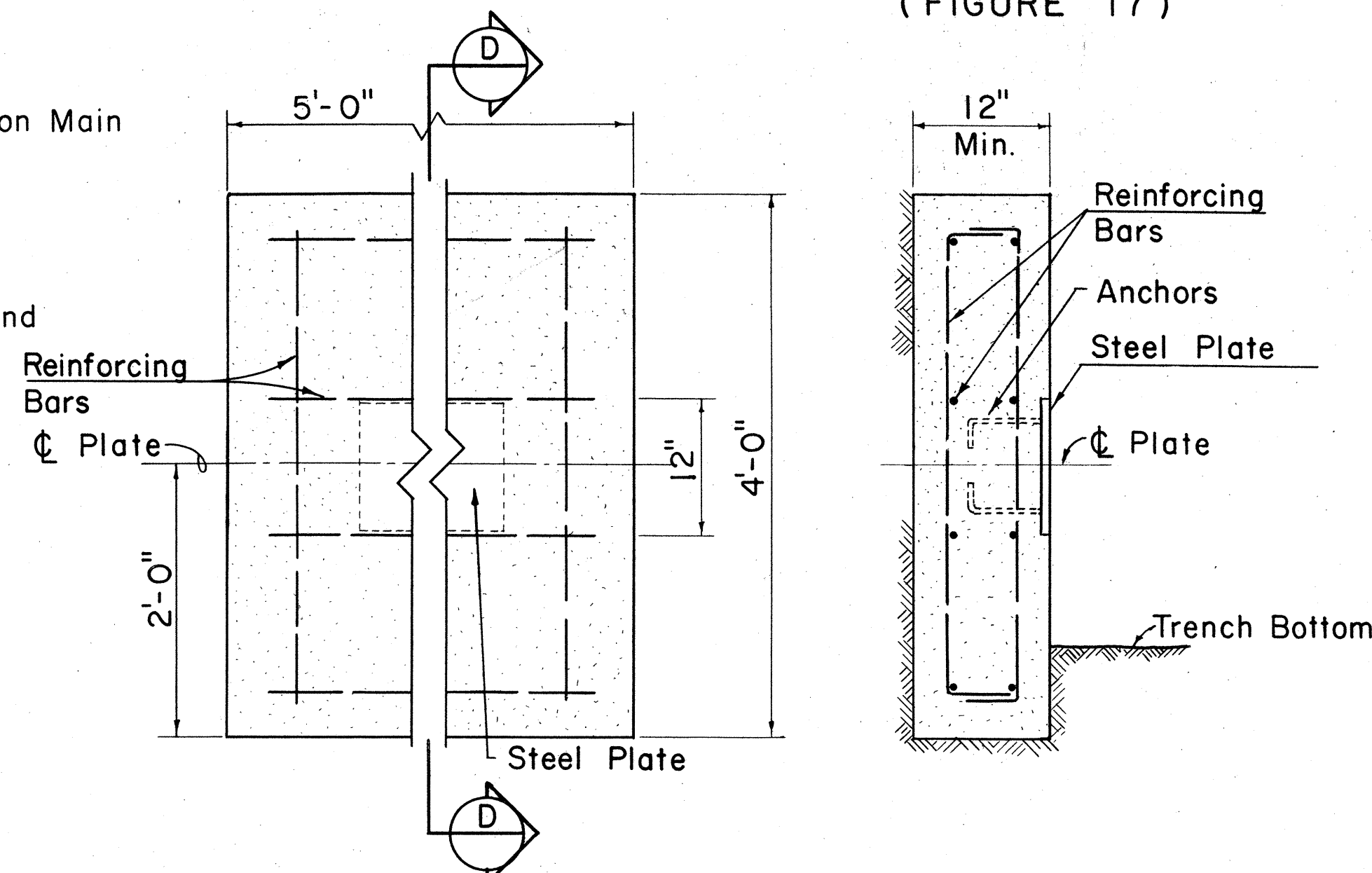
NOTE:

Concrete Block with structural strut shall be used for bends at connections or for tee connections.

(FIGURE 20)

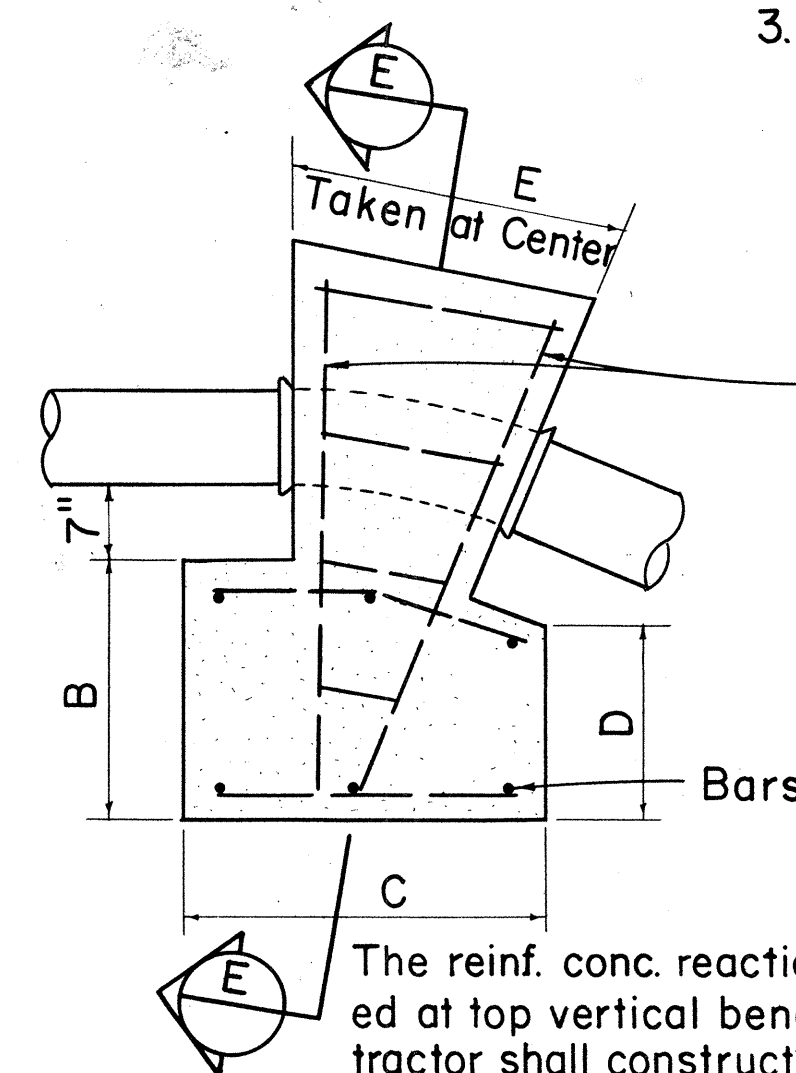
DETAILS OF CONCRETE BLOCK

Scale: 1" = 1'-0"



ELEVATION

SECTION D



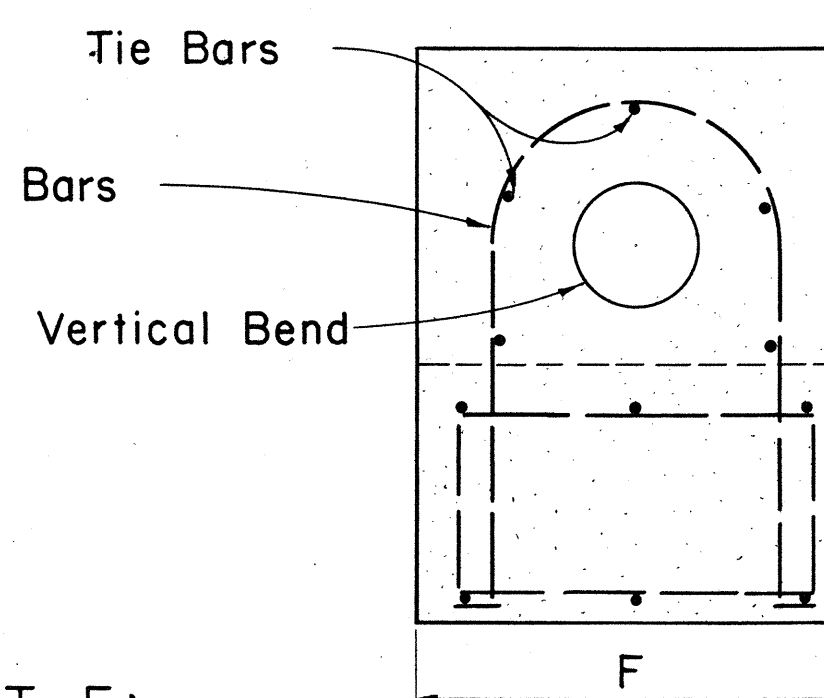
ELEVATION

TYPICAL DETAIL OF REINFORCED CONCRETE REACTION BLOCK FOR TOP VERTICAL BENDS

Scale: Not to Scale

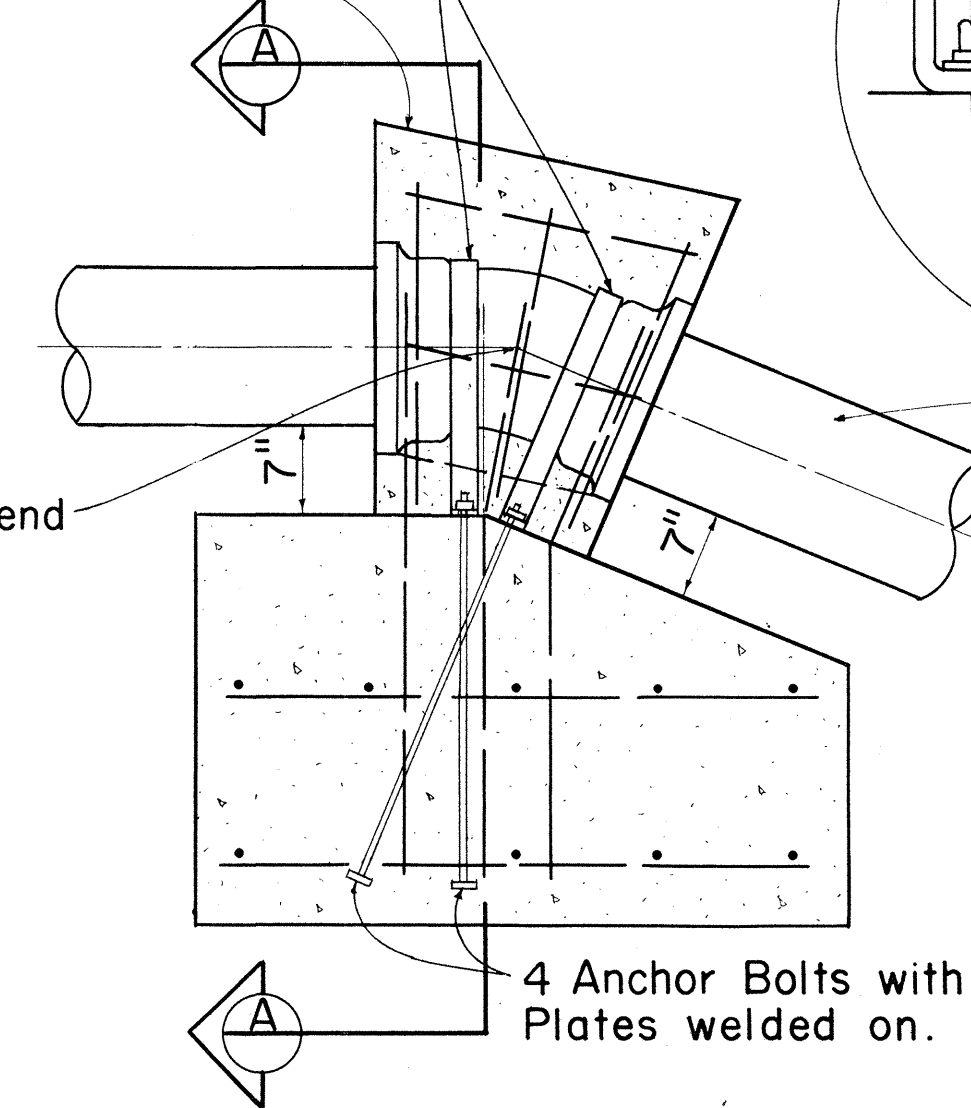
NOTE:

The reinf. conc. reaction block as shown in this typical detail shall be constructed at top vertical bends only. After trench is dug at block location, the Contractor shall construct the block as directed by the Engineer to meet ground conditions. Actual size of Reaction Block shall also be determined by the Engineer.

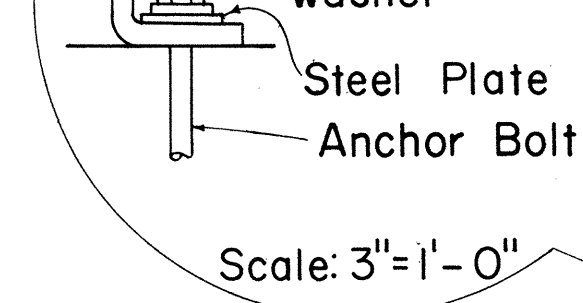


SECTION E

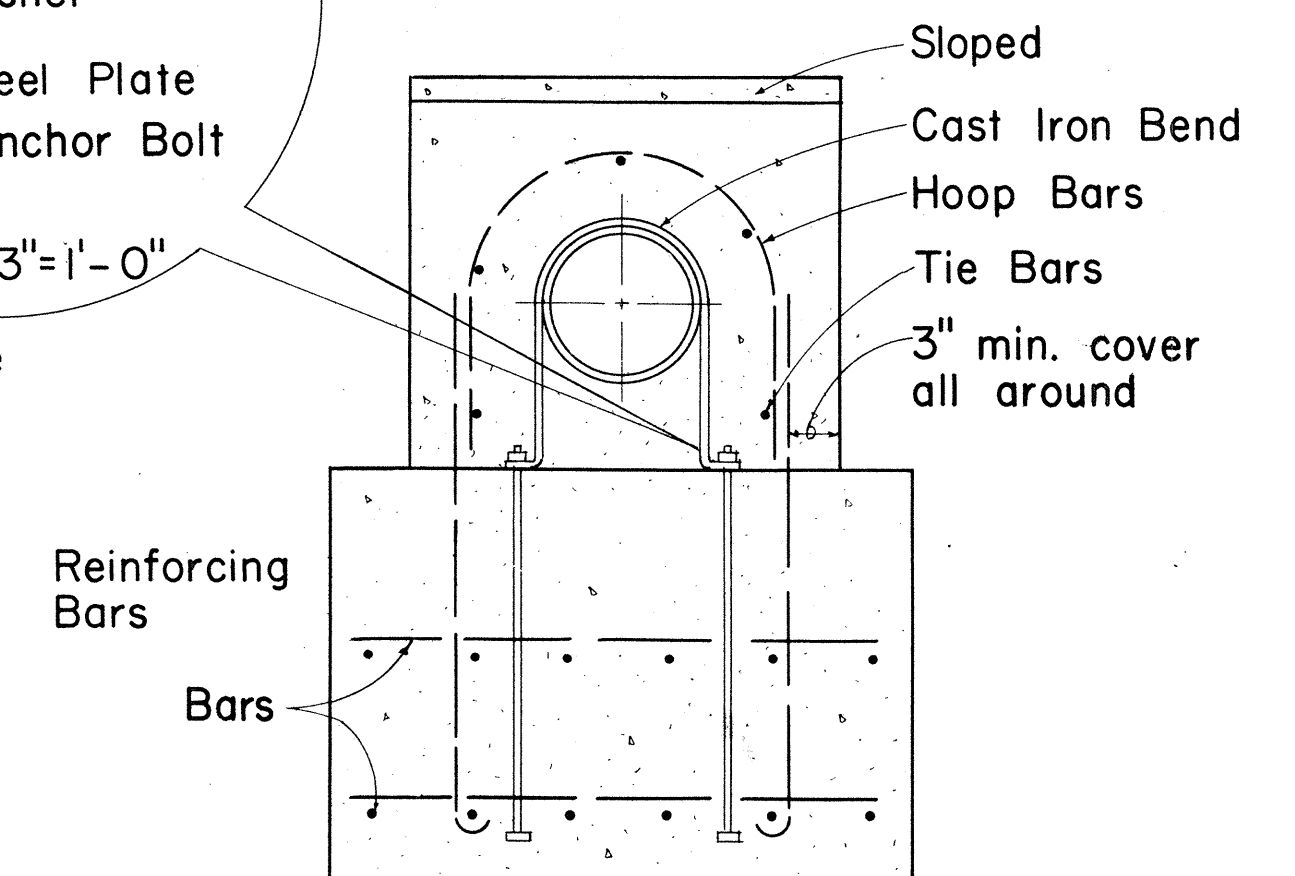
Concrete around pipe to be built after connection is made.



ELEVATION



Scale: 3" = 1'-0"



SECTION A

TYPICAL DETAIL OF CONCRETE REACTION BLOCK WITH STRAPS

Scale: 3/4" = 1'-0"

GENERAL NOTES:

1. Detail drawings of actual blocks to be used, shall be furnished during construction by B.W.S. and or State.
2. Steel straps, anchor bolts, nuts, washers, etc., furnished and installed by the Contractor will not be paid for directly, but shall be considered incidental to the various contract items for the water system.
3. Minimum cover over all reinforcing steel shall be 3 inches.

APPROVED:

ASSISTANT CHIEF ENGINEER
BOARD OF WATER SUPPLY

DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
BOARD OF WATER SUPPLY
CITY & COUNTY OF HONOLULU
STANDARD DETAILS

Scale: As Shown Date: Dec. 29, 1972

SHEET No. 44 OF 4 SHEETS