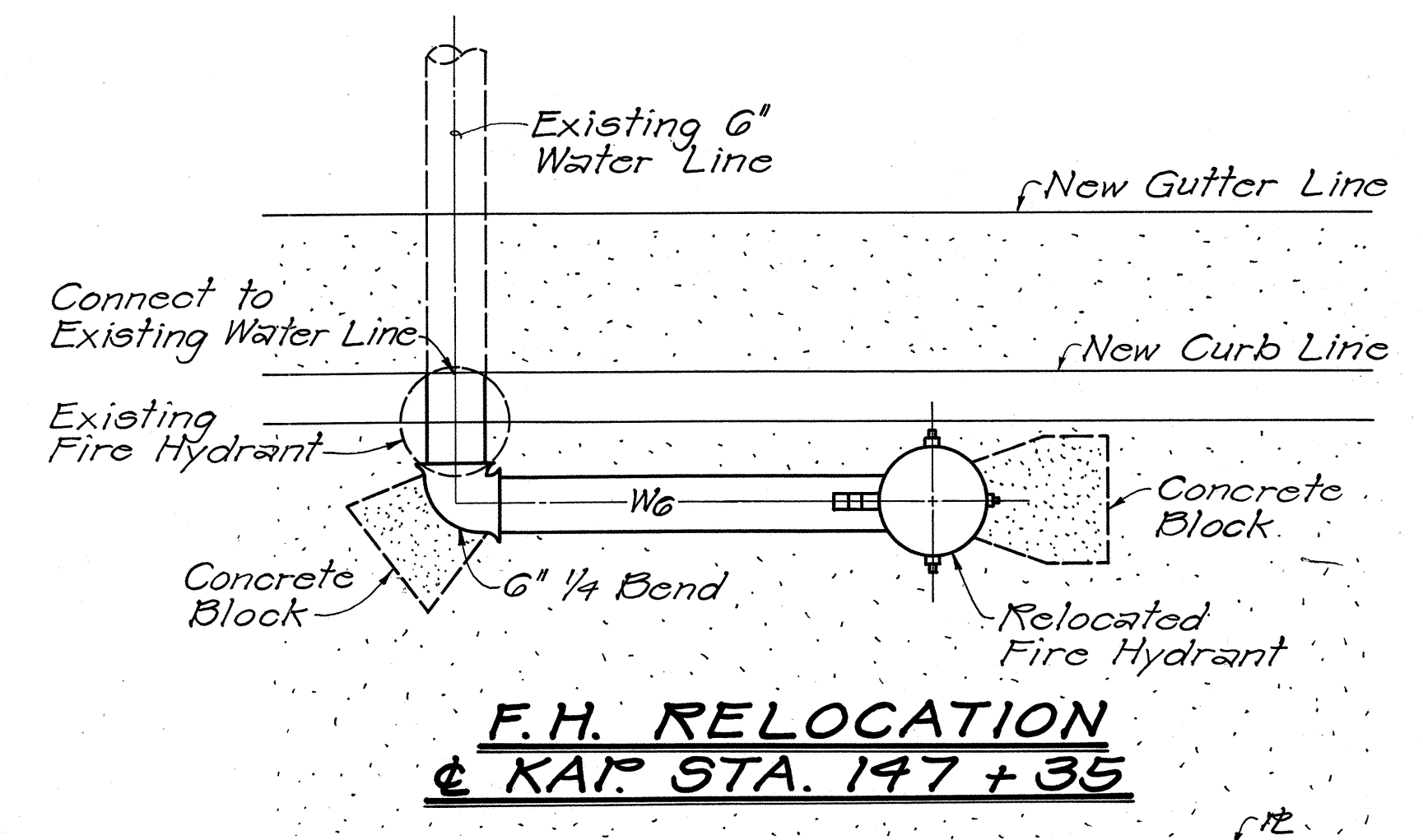
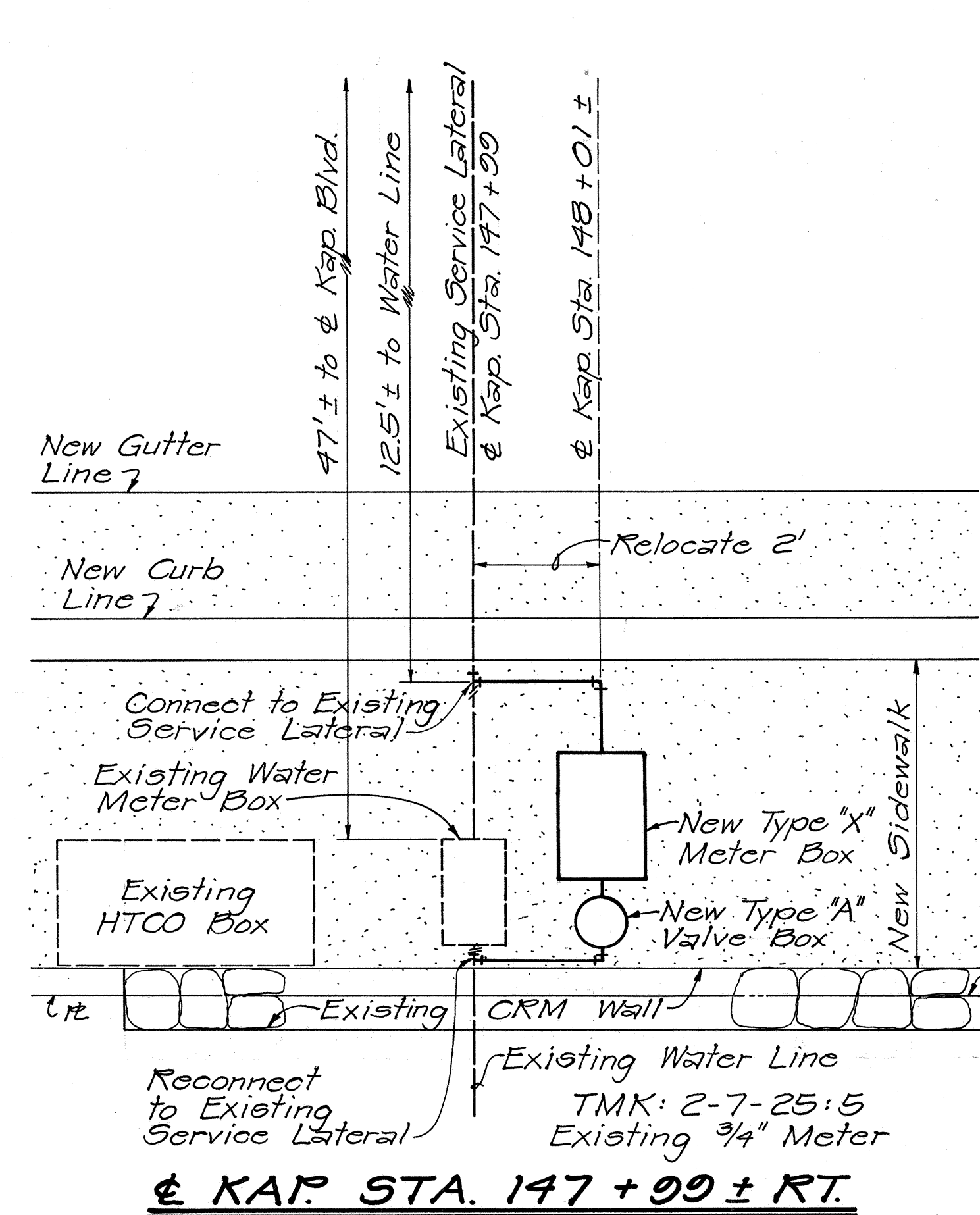
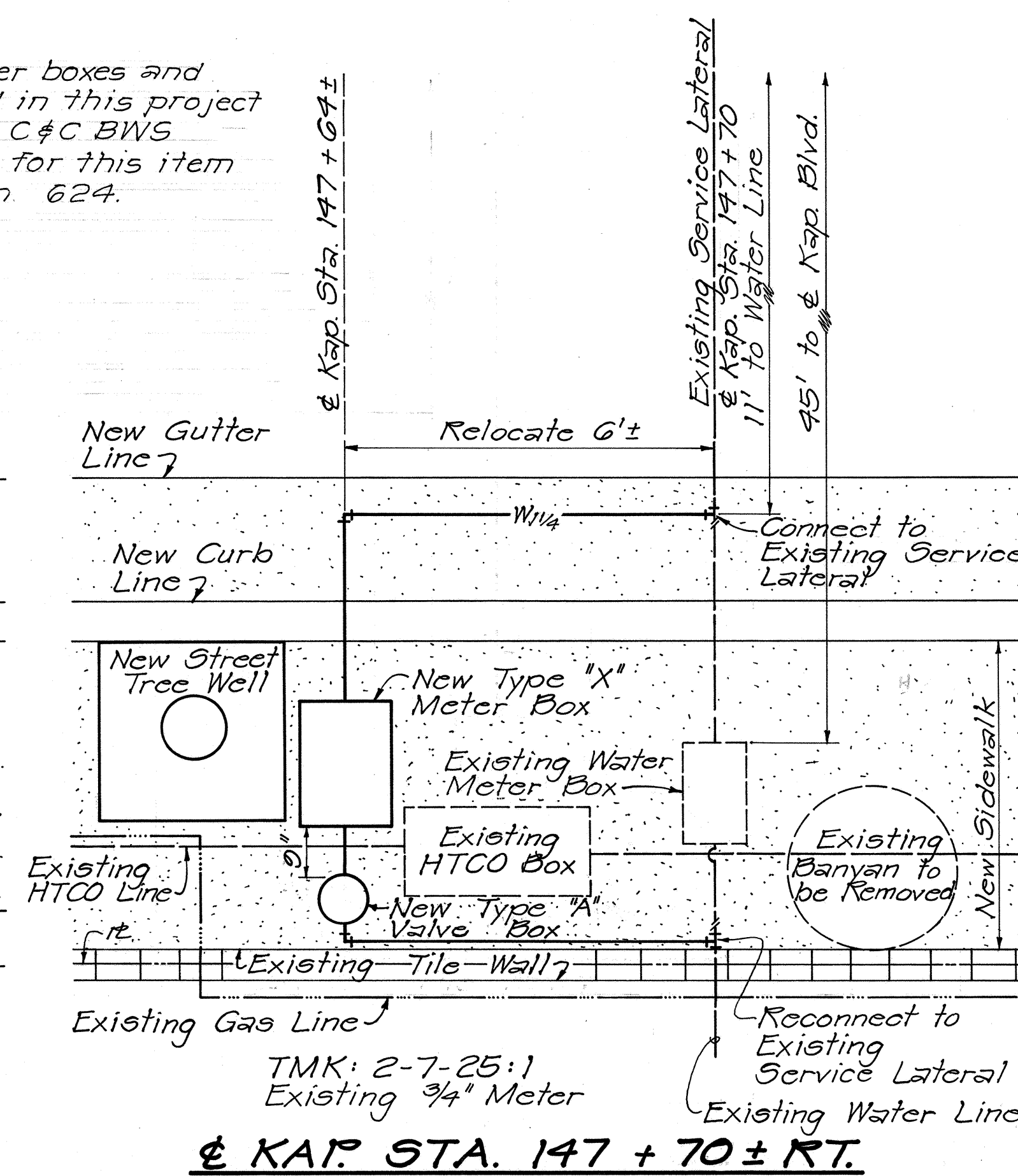
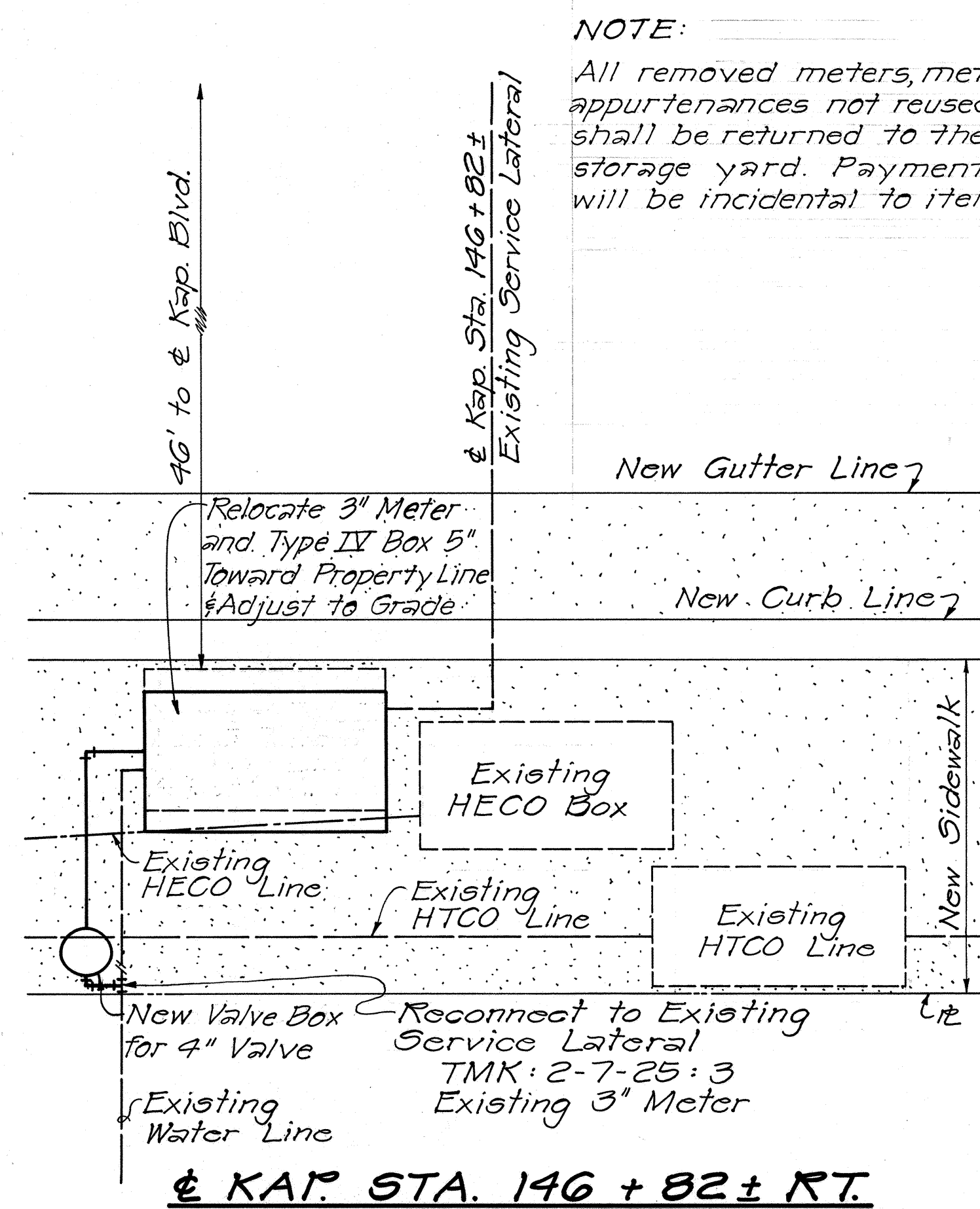
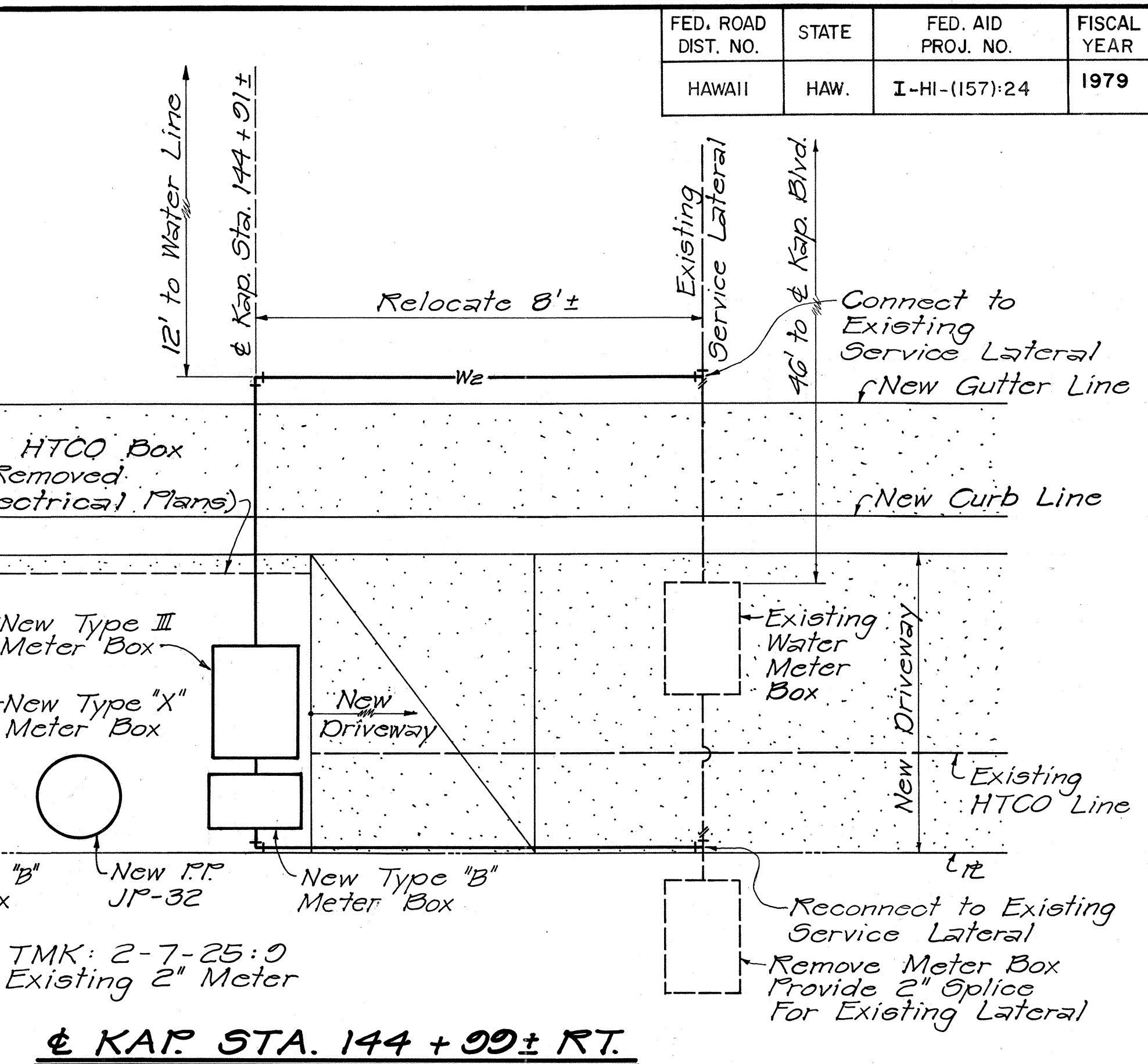
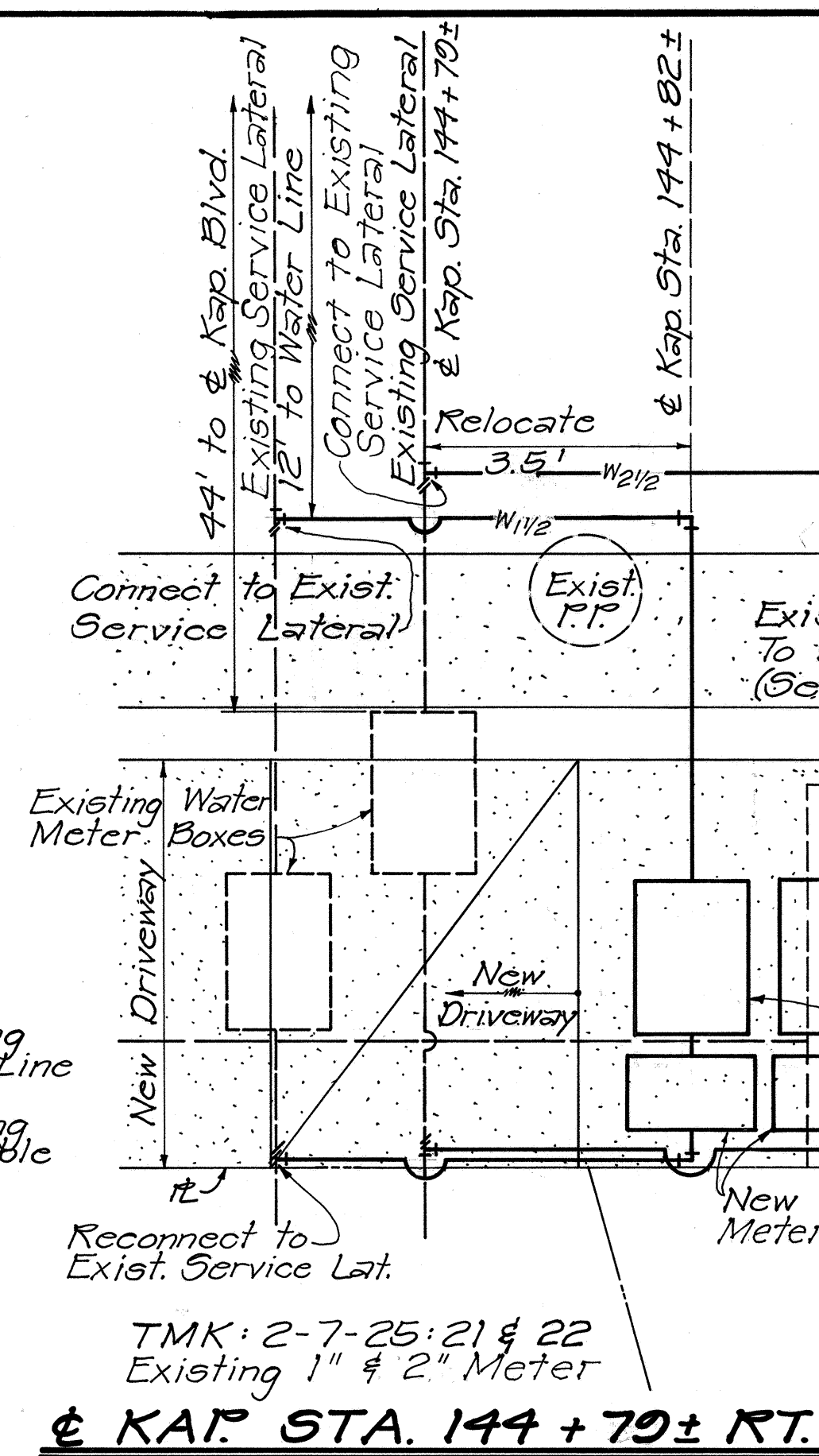
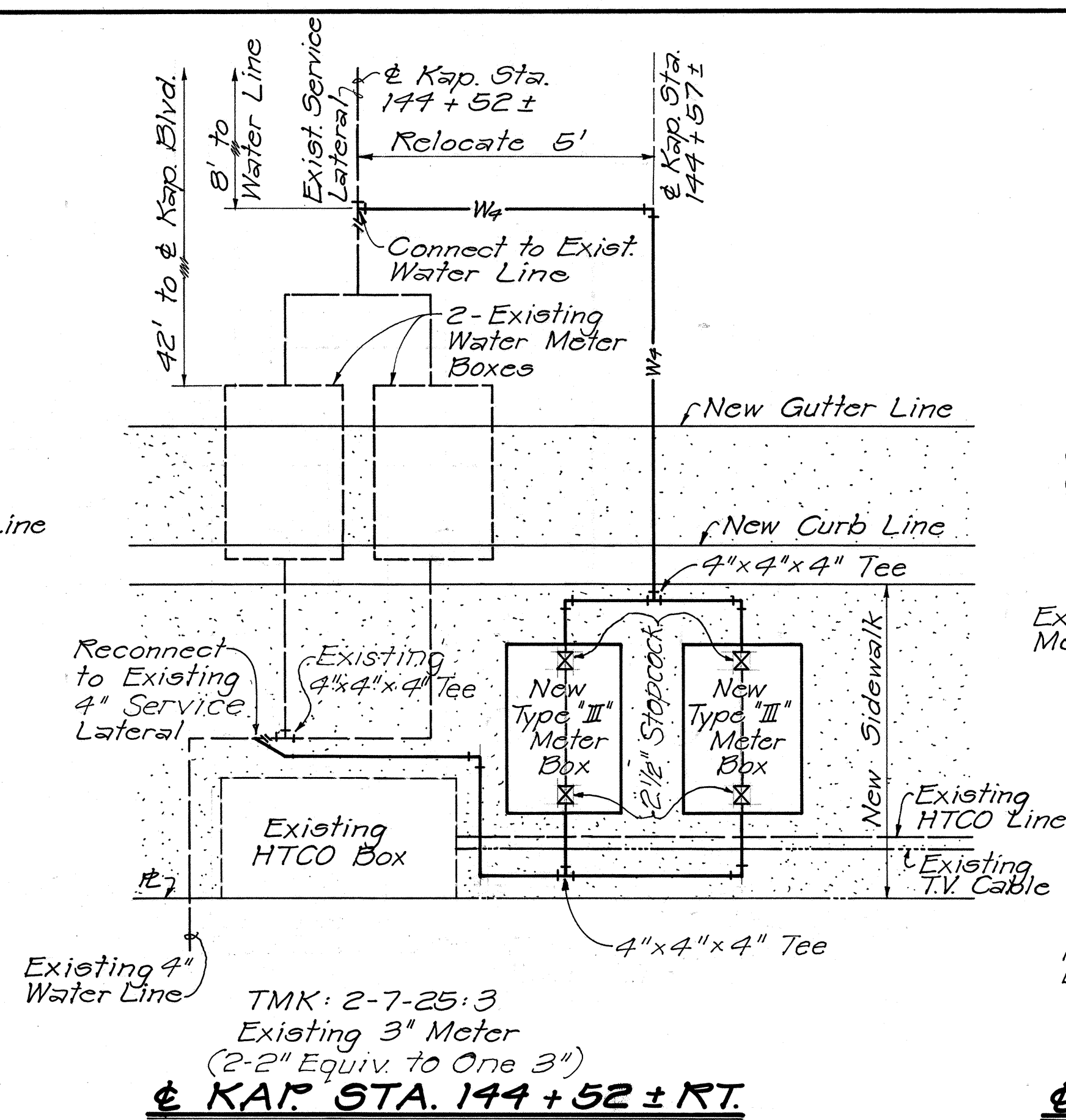
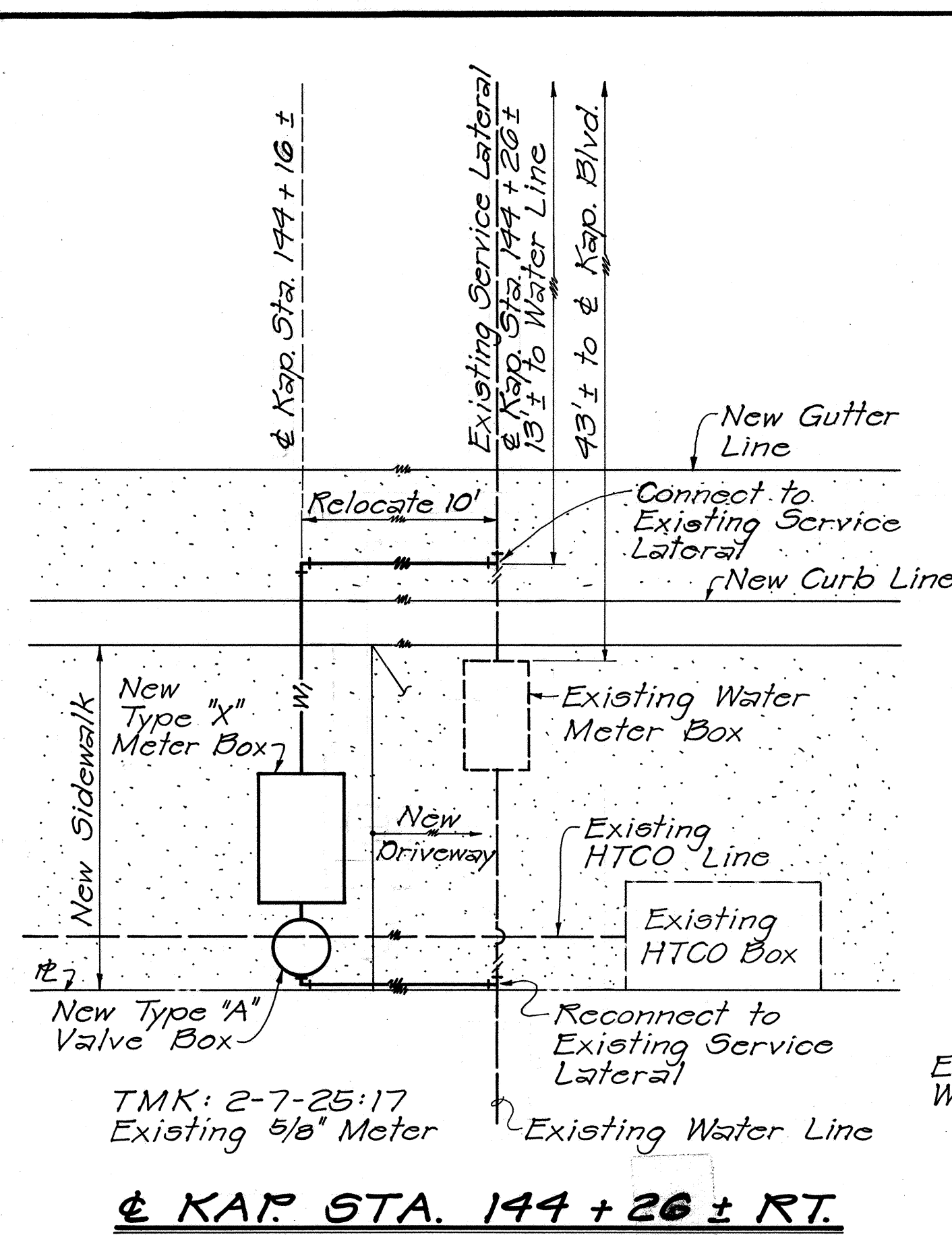
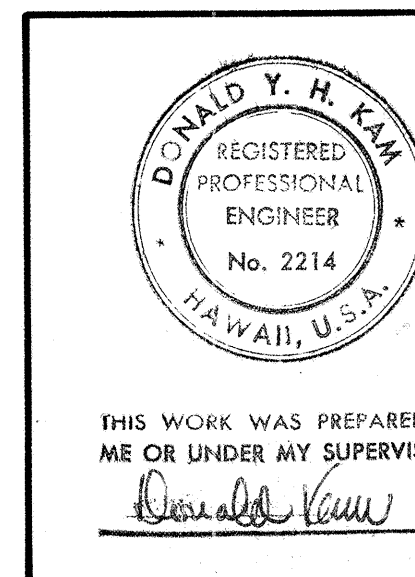


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(157)-24	1979	32	146

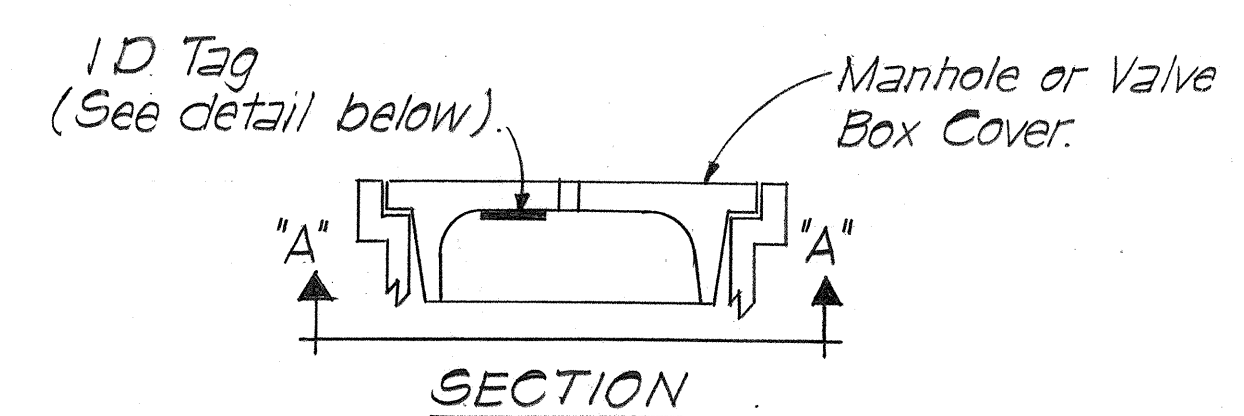
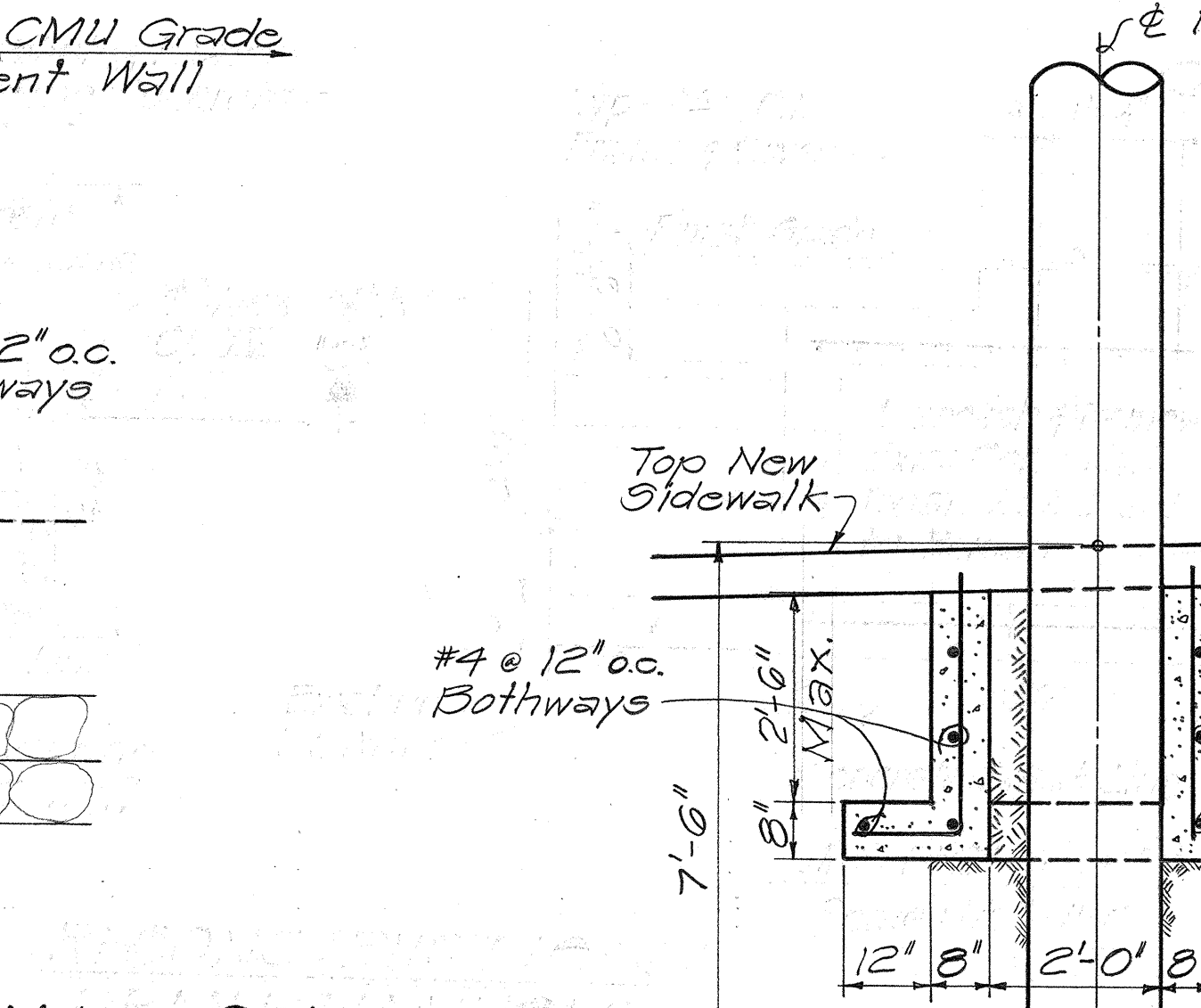
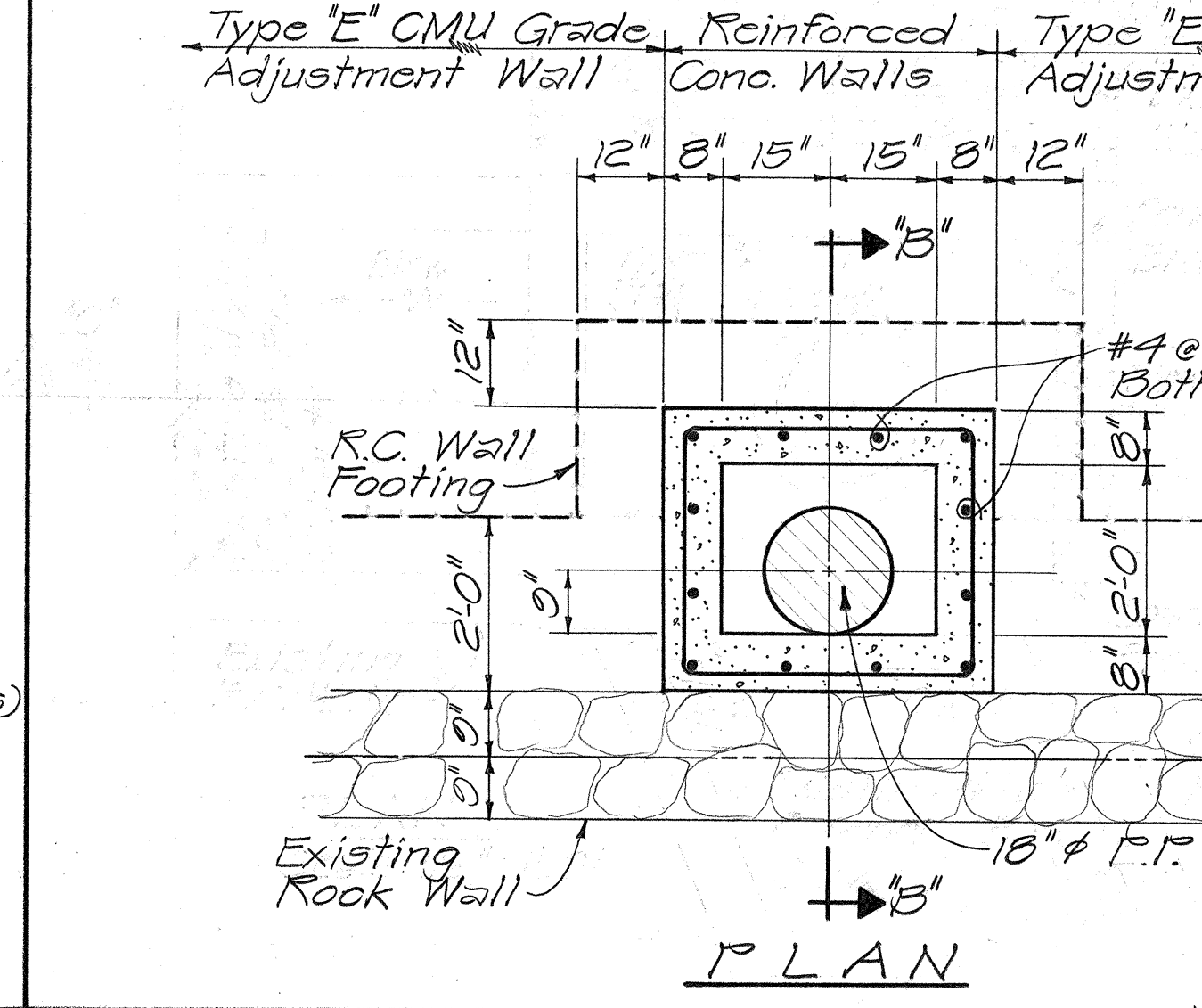
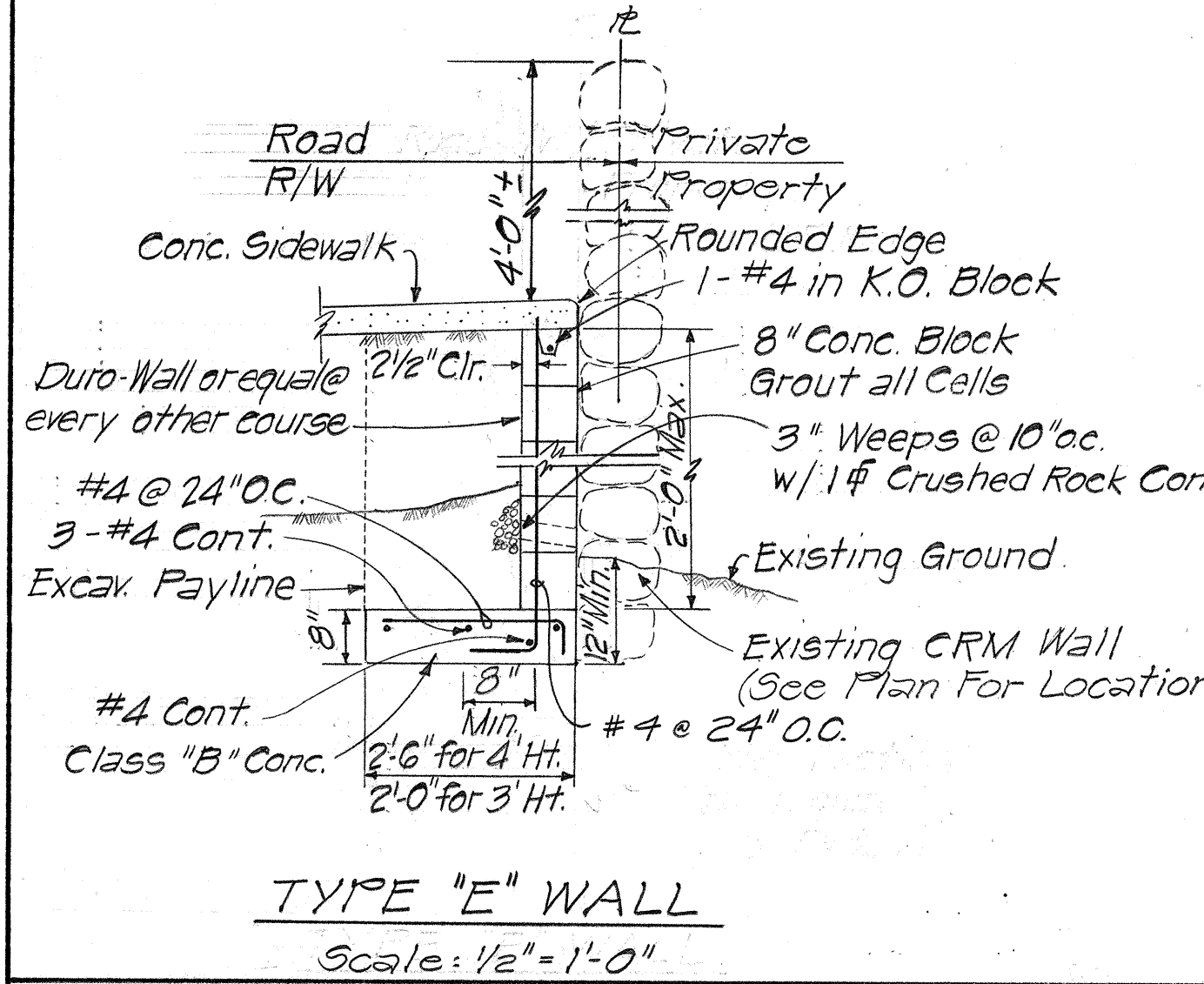
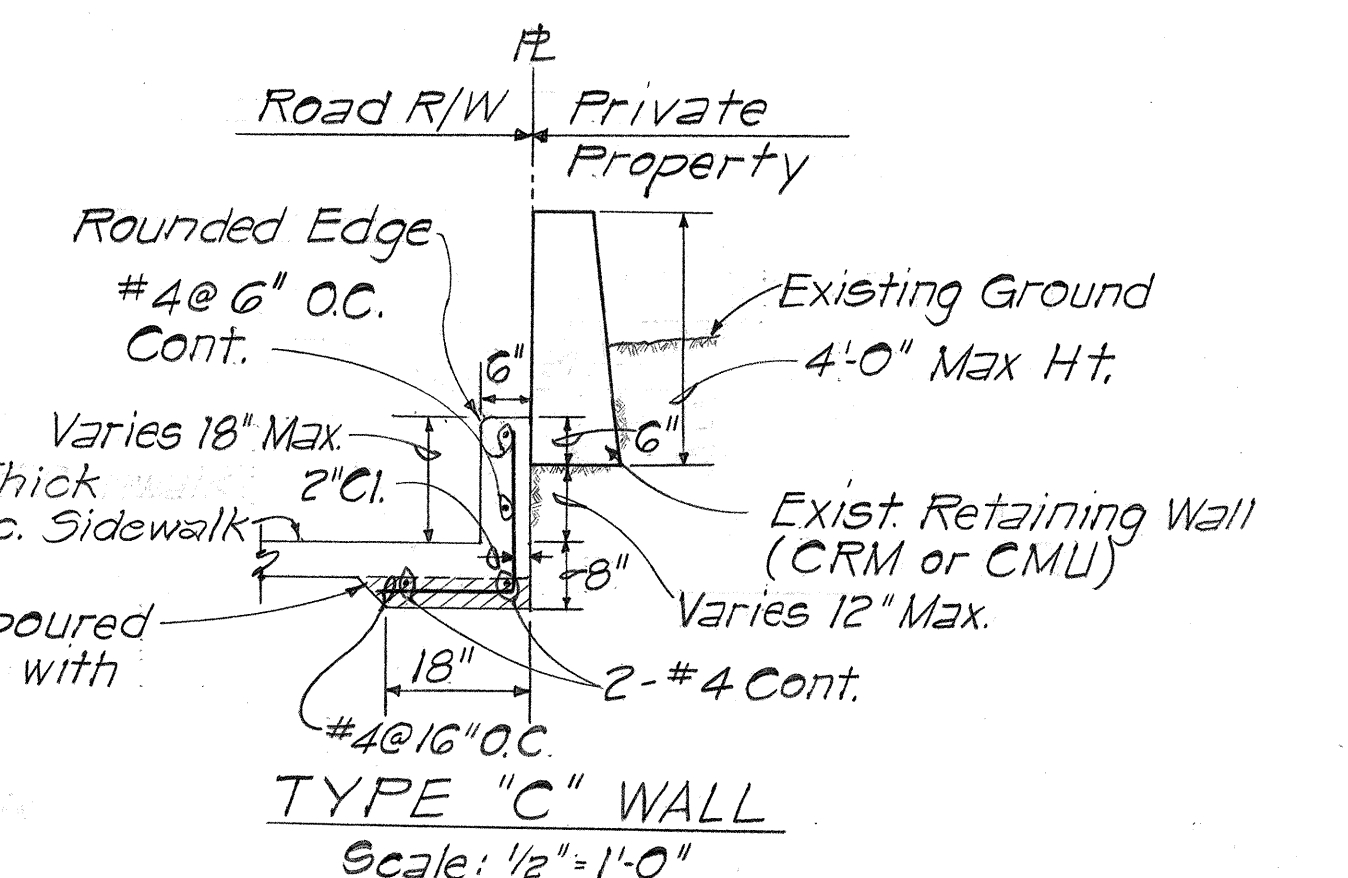
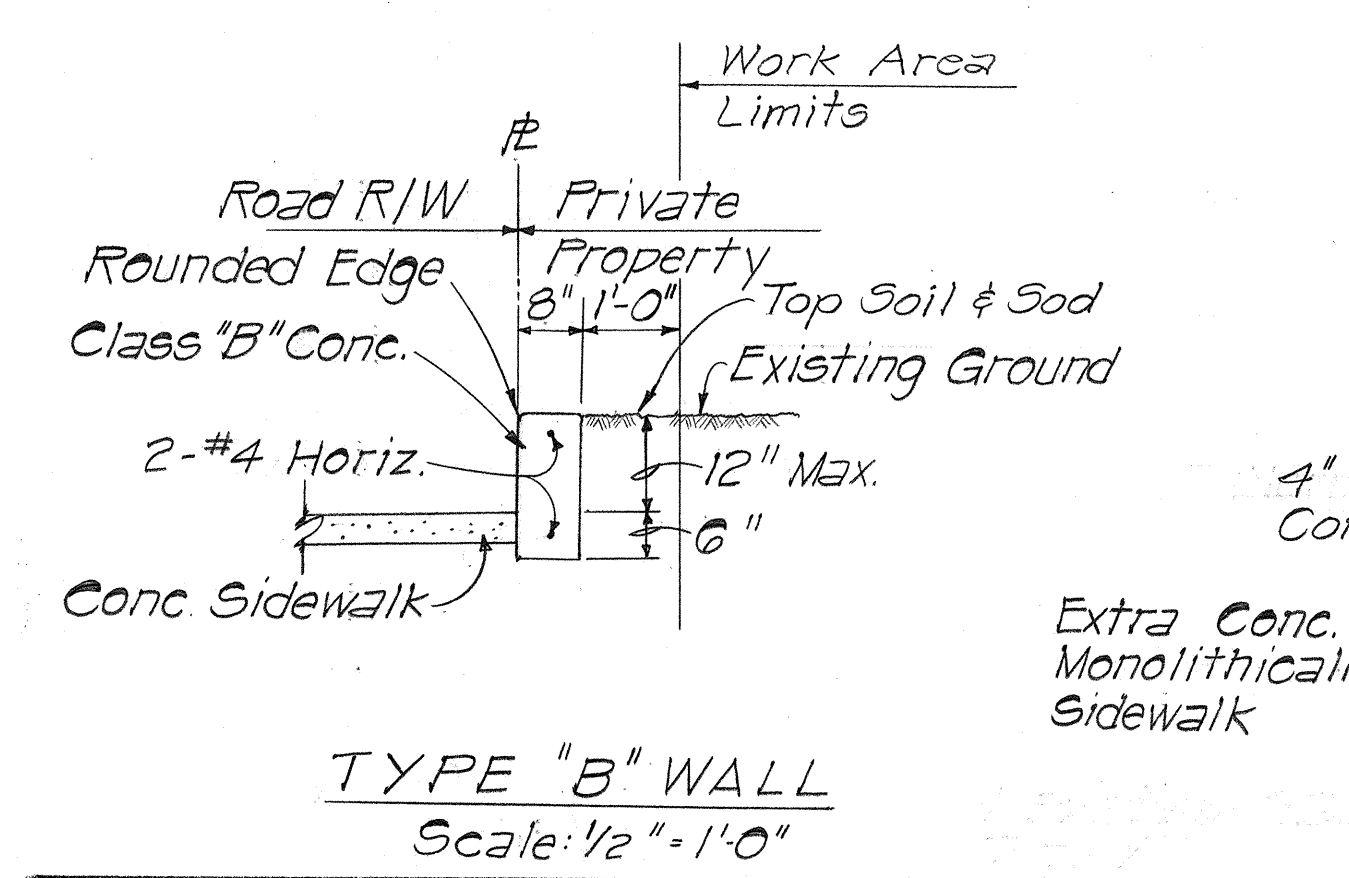
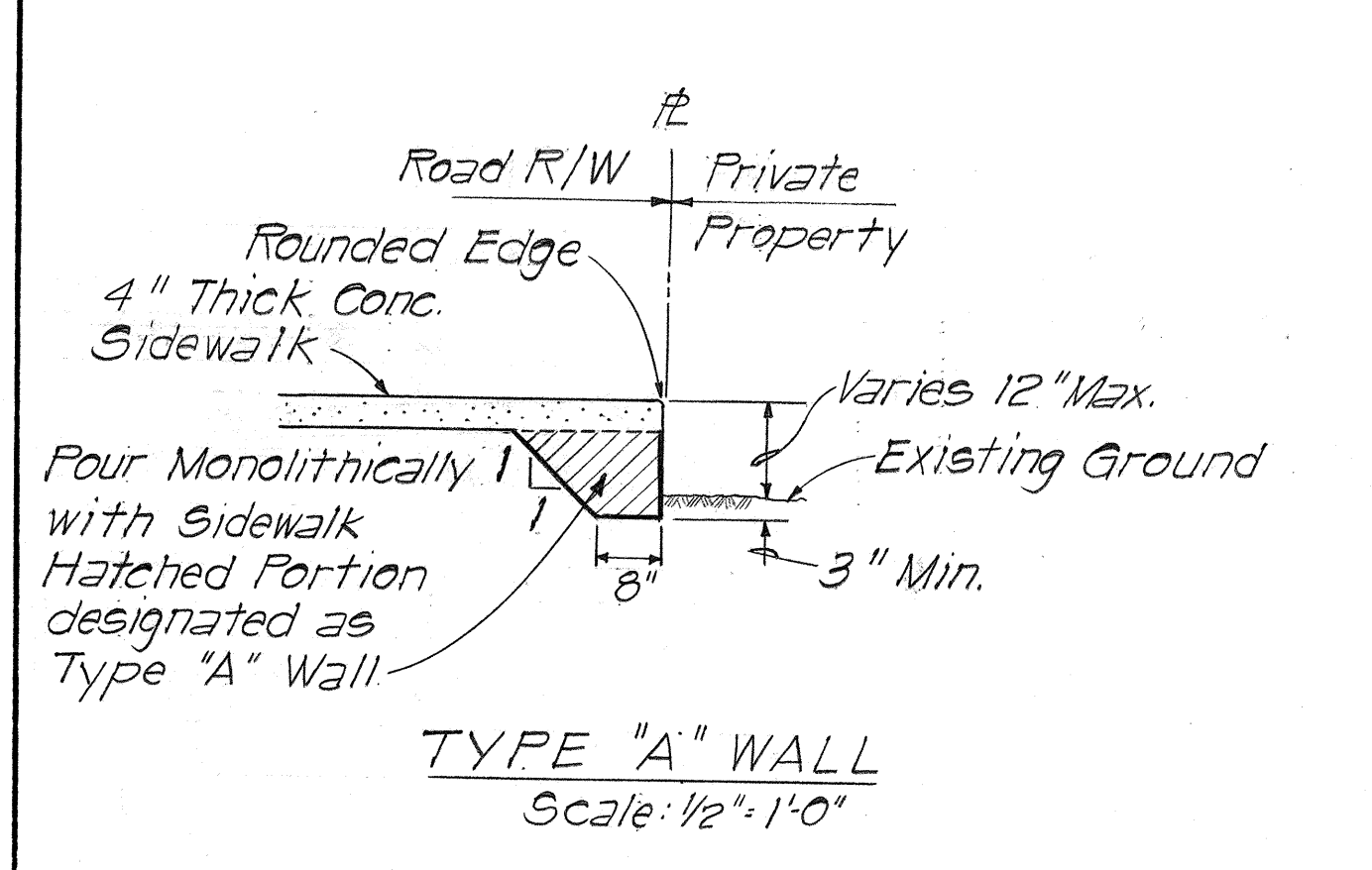


Approved: *[Signature]* Date: 10/24/79
Chief, Planning and Engineering
Board of Water Supply



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
**WATER METER
RELOCATION PLAN**
KAPIOLANI BOULEVARD
INTERSTATE ROUTE H-1
KAPIOLANI INTERCHANGE ON-RAMP
F.A.I. PROJ. NO. I-HI-(157)-24
Scale: 1/2" = 1'-0" Date: 10-15-79
SHEET NO. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1 (157):24	1979	33	146



NOTES

- The Contractor shall verify valve data with the valve manufacturer prior to stamping ID tag.
- ID tag shall be installed on underside of all new Manhole or Valve Box Cover.
- Payment for the furnishing and installation of ID tags will not be made directly but shall be included in the Unit Price Bids for Valves.

ABBREVIATIONS

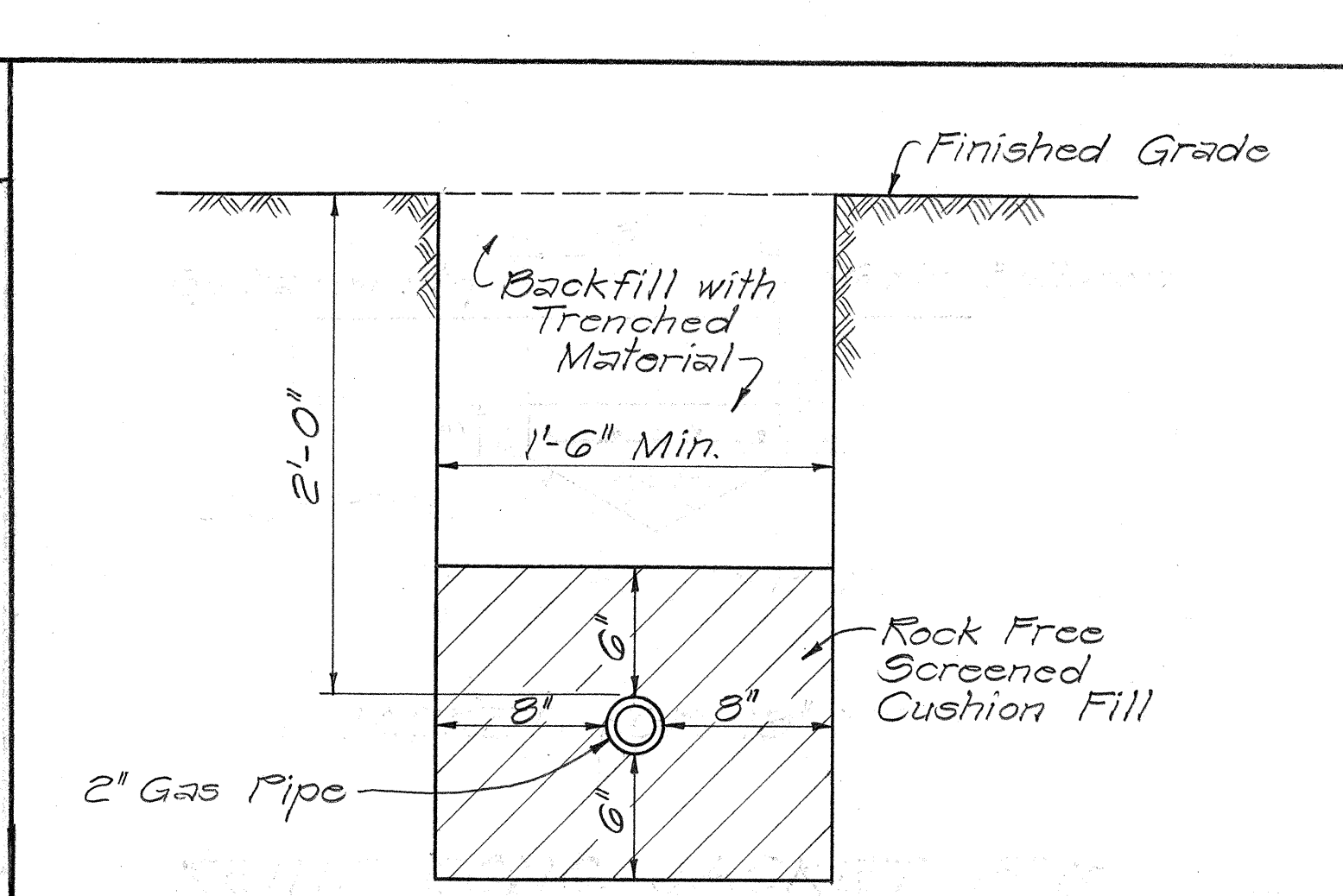
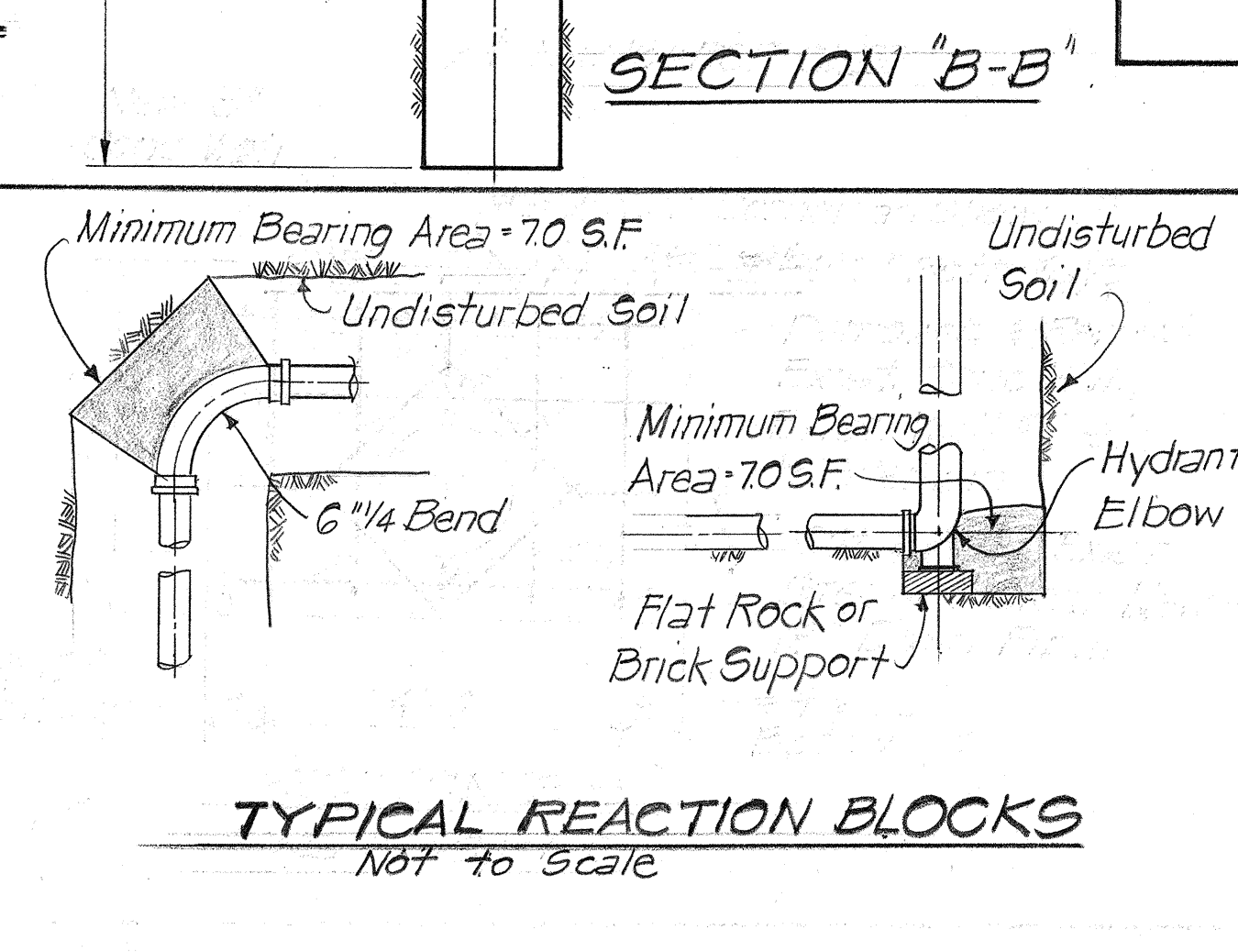
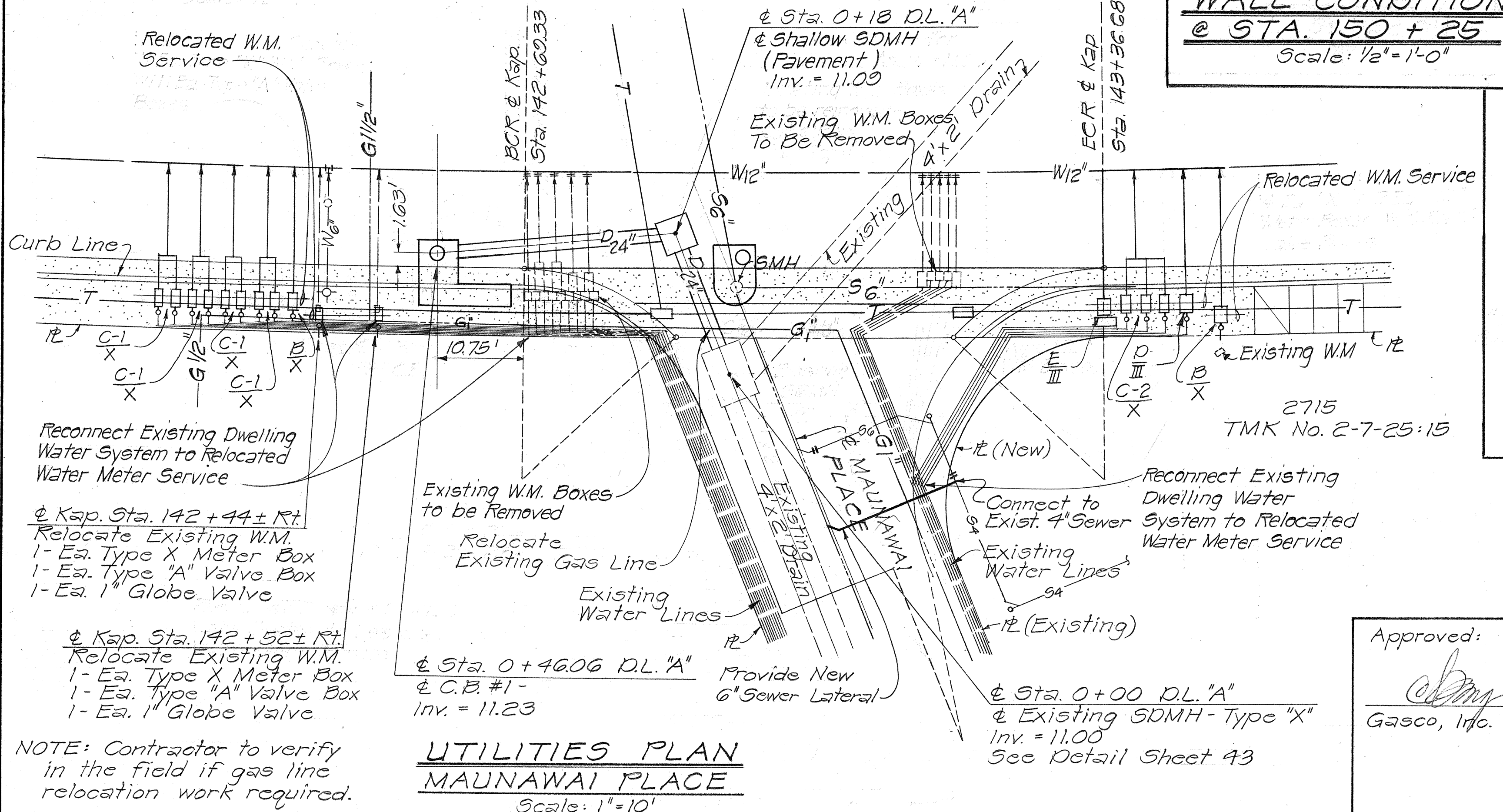
Gate Valve - GV
Bevel Gear Gate Valve - BGGV
Butterfly Valve - BV

IDENTIFICATION TAG FOR MANHOLE OR VALVE BOX COVER
No Scale

TYPICAL TAG

16" GV
105
3 1/2"

18 gauge (B&S) Commercial Brass Plate, ASTM B-16 #260.



WALL CONDITION @ STA. 150 + 25
Scale: 1/2" = 1'-0"

SECTION "B-B"

Approved: _____ Date: _____

for Chief, Planning and Engineering
Board of Water Supply

Approved: _____ Date: _____

Gasco, Inc.

Approved for Grading & Construction within City Right-of-Way Only: _____ Date: _____

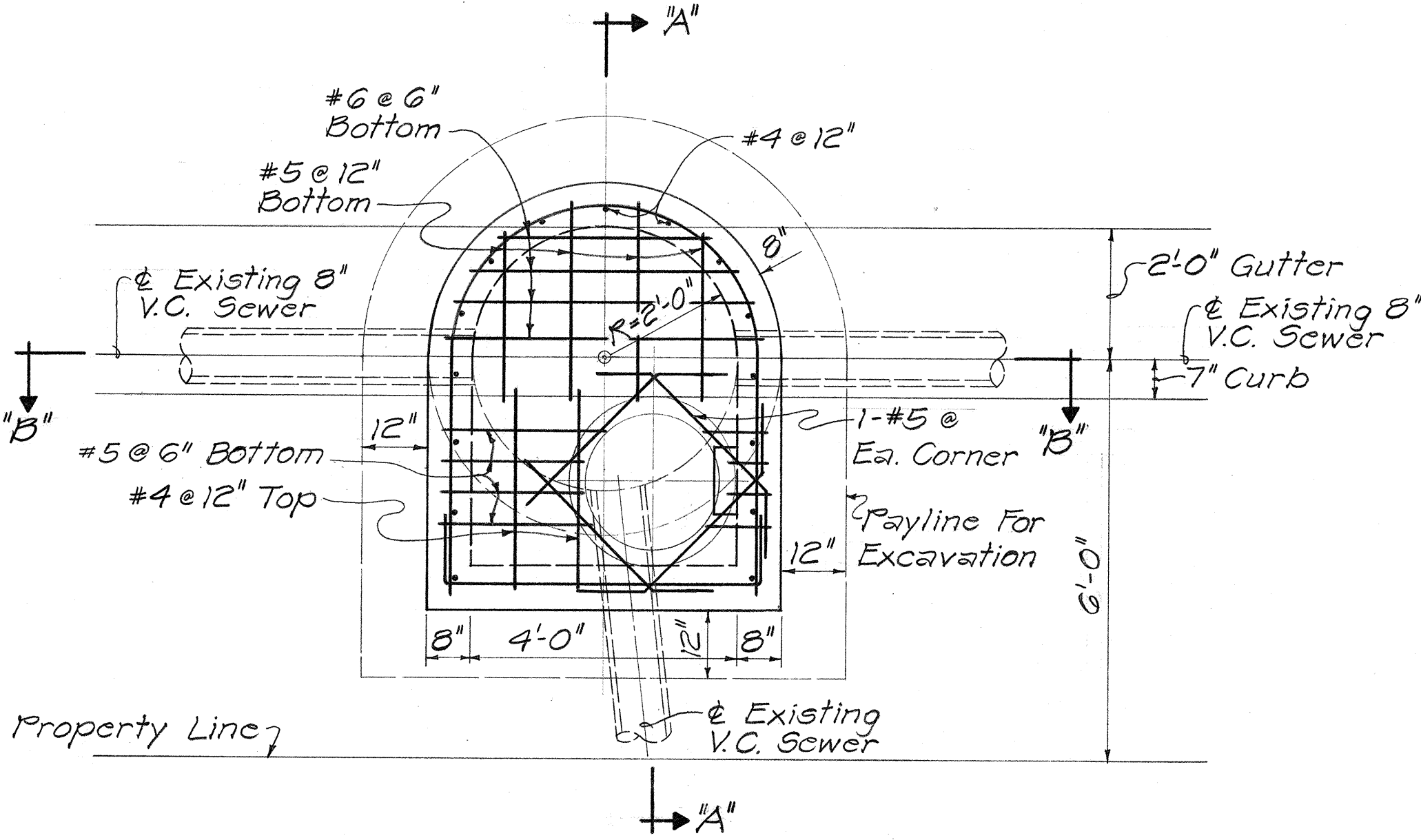
Chief, Division of Engineering
Department of Public Works
City & County of Honolulu

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

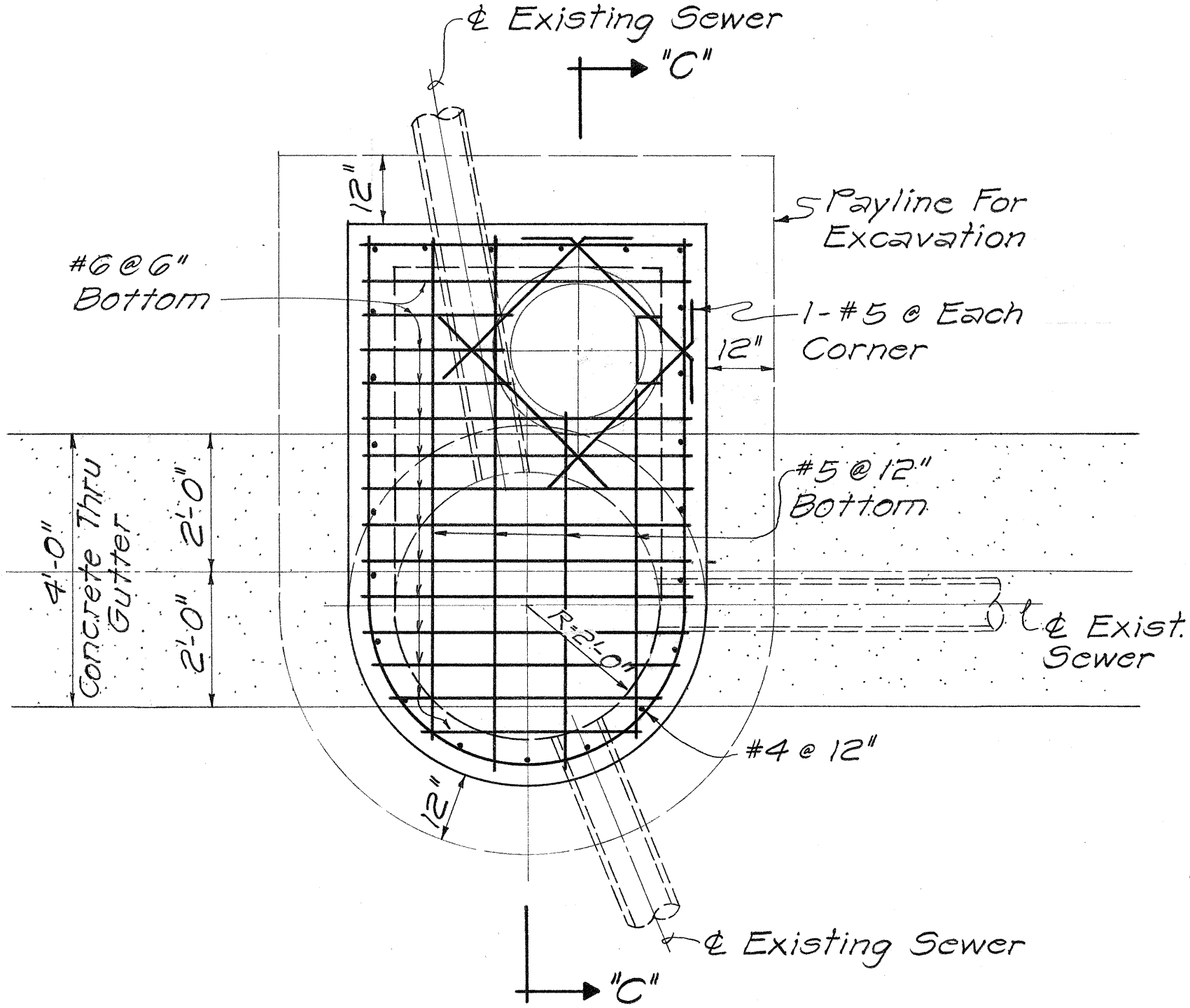
WALL-UTILITIES & MISC. DETAILS
KAPIOLANI BOULEVARD

INTERSTATE ROUTE H-1
KAPIOLANI INTERCHANGE ON-RAMP
F.A.I. PROJ. NO. I-HI-1 (157): 24
Scale: AS NOTED Date: 10-15-79
SHEET NO. 1 OF 1 SHEETS

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
QUANTITIES BY	_____
NOTE BOOK	_____
NO.	_____



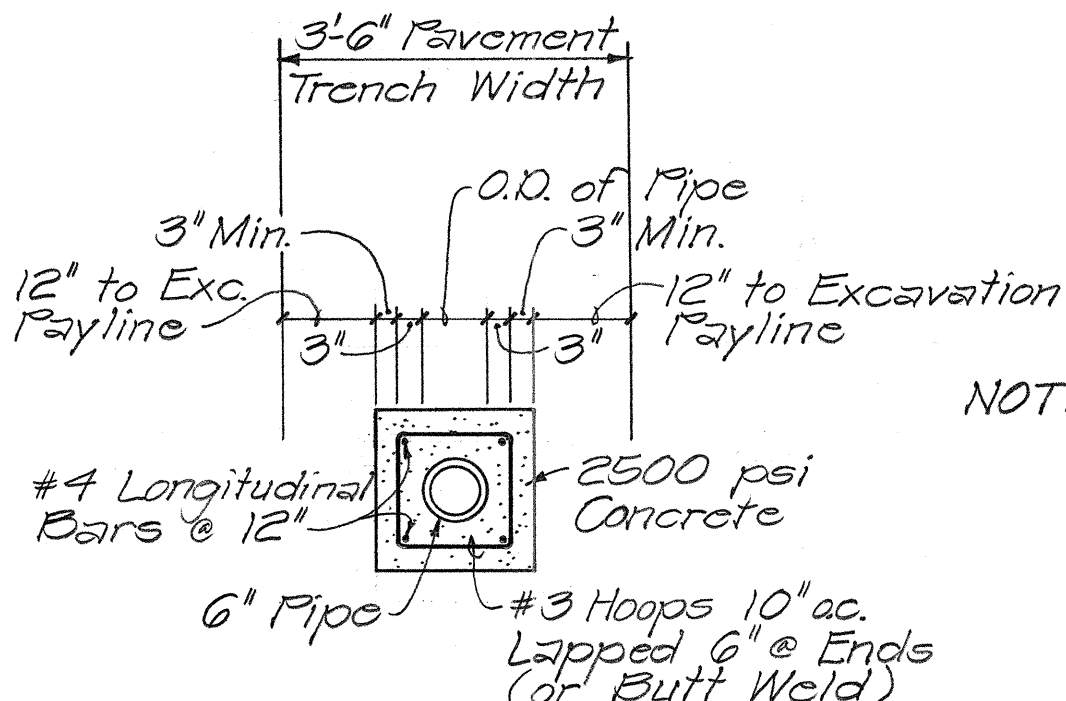
PLAN
RECONSTRUCT SEWER MANHOLE #270 & #270-A
Scale: 1/2" = 1'-0"



PLAN
RECONSTRUCT SEWER MANHOLE #208
Scale: 1/2" = 1'-0"

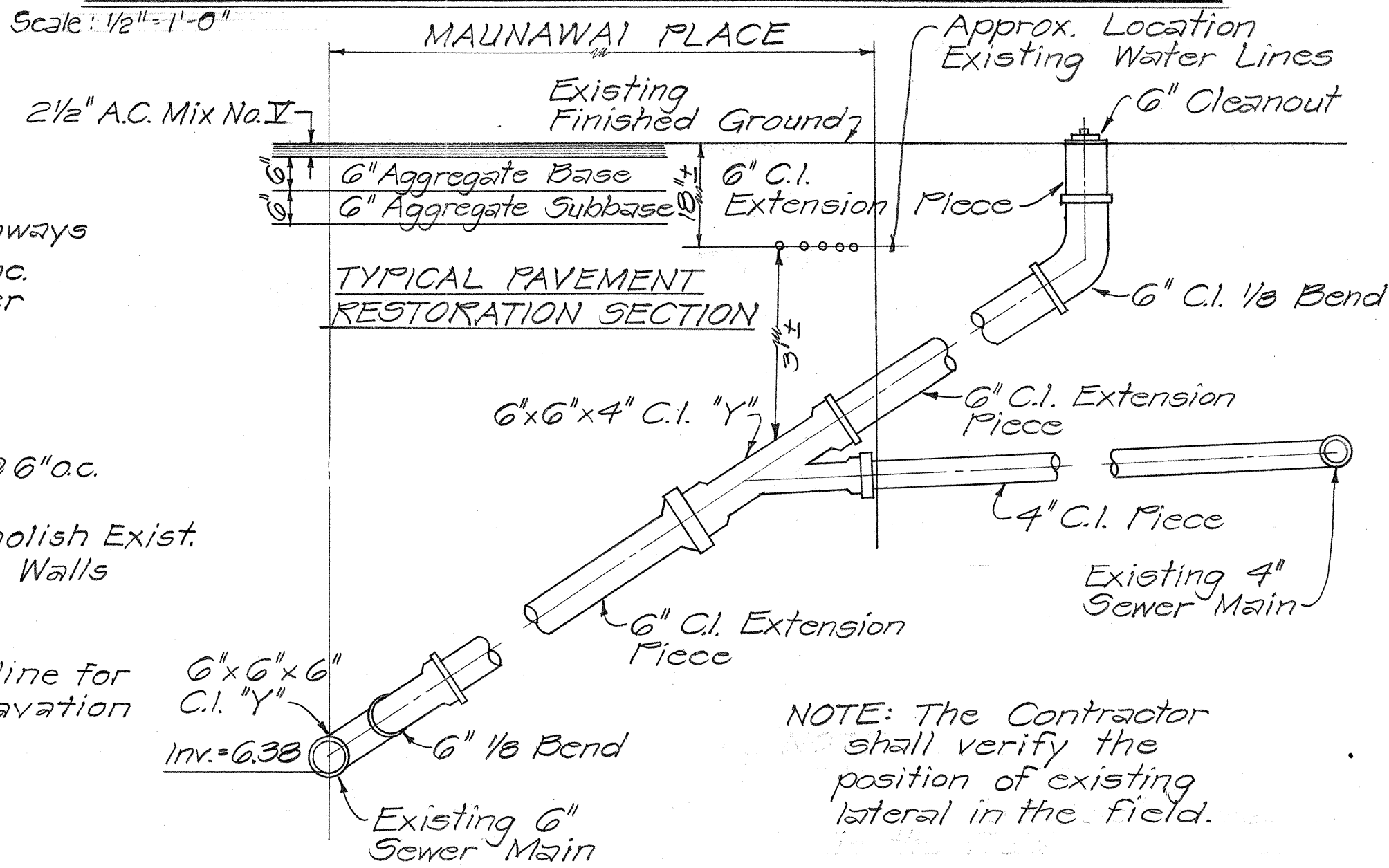
SEWER CONSTRUCTION NOTES:

- The Contractor shall notify the Division of Wastewater Management seven (7) days prior to the commencement of sewer work and shall submit 3 sets of approved construction plans.
- All sewer construction work and materials shall be performed in accordance with the Standard Specifications for Public Works Construction, May 1975, Standard Details for Public Works Construction, August 1976, current city practices and the Revised Ordinances of Honolulu, 1969.



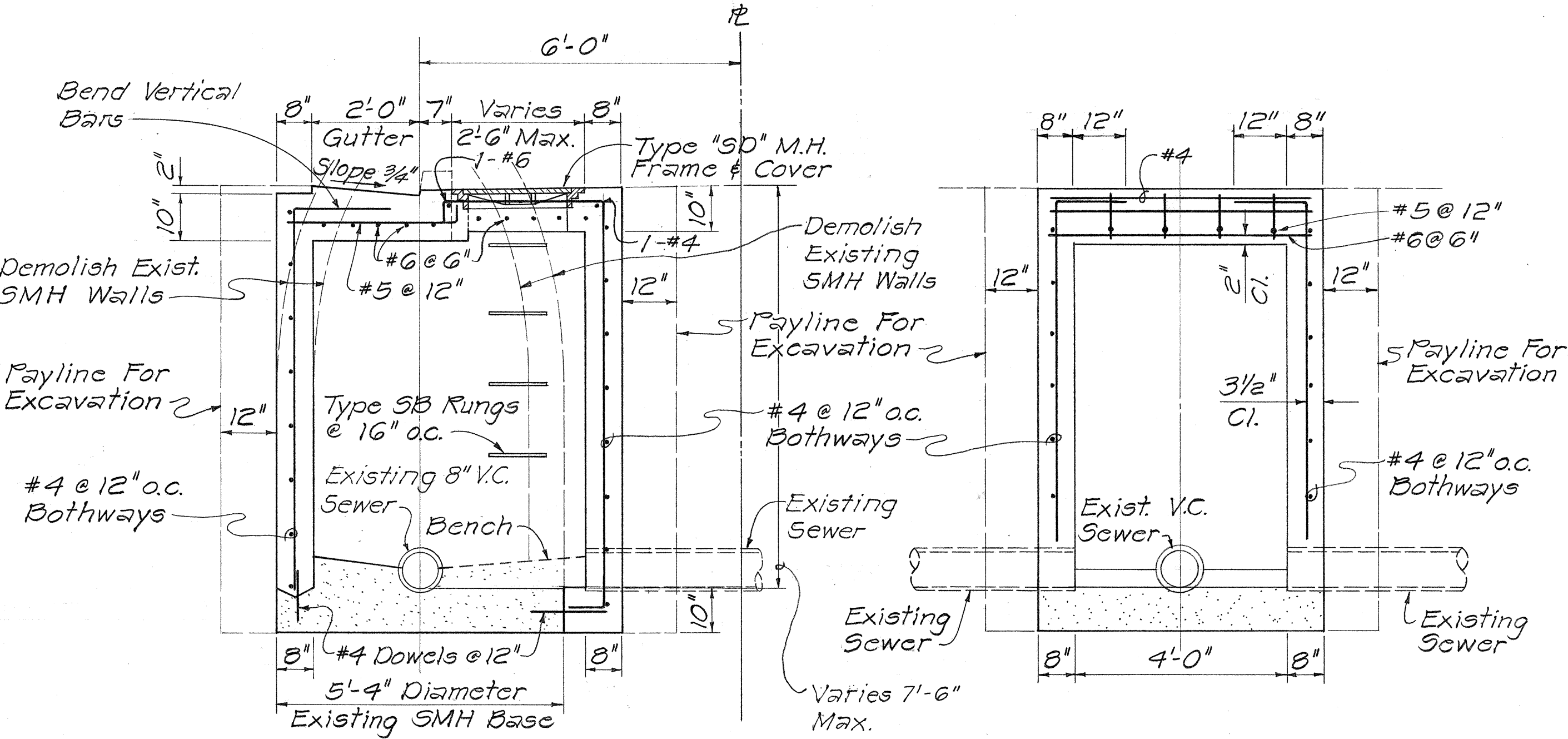
NOTE: Concrete jacket to be placed 5' to either side of the centerline of each tree well on Kapiolani Blvd. See Sht. 16 for locations.

DETAIL OF REINFORCED CONCRETE JACKET for 6" SEWER LINE ALONG KAPIOLANI BLVD.

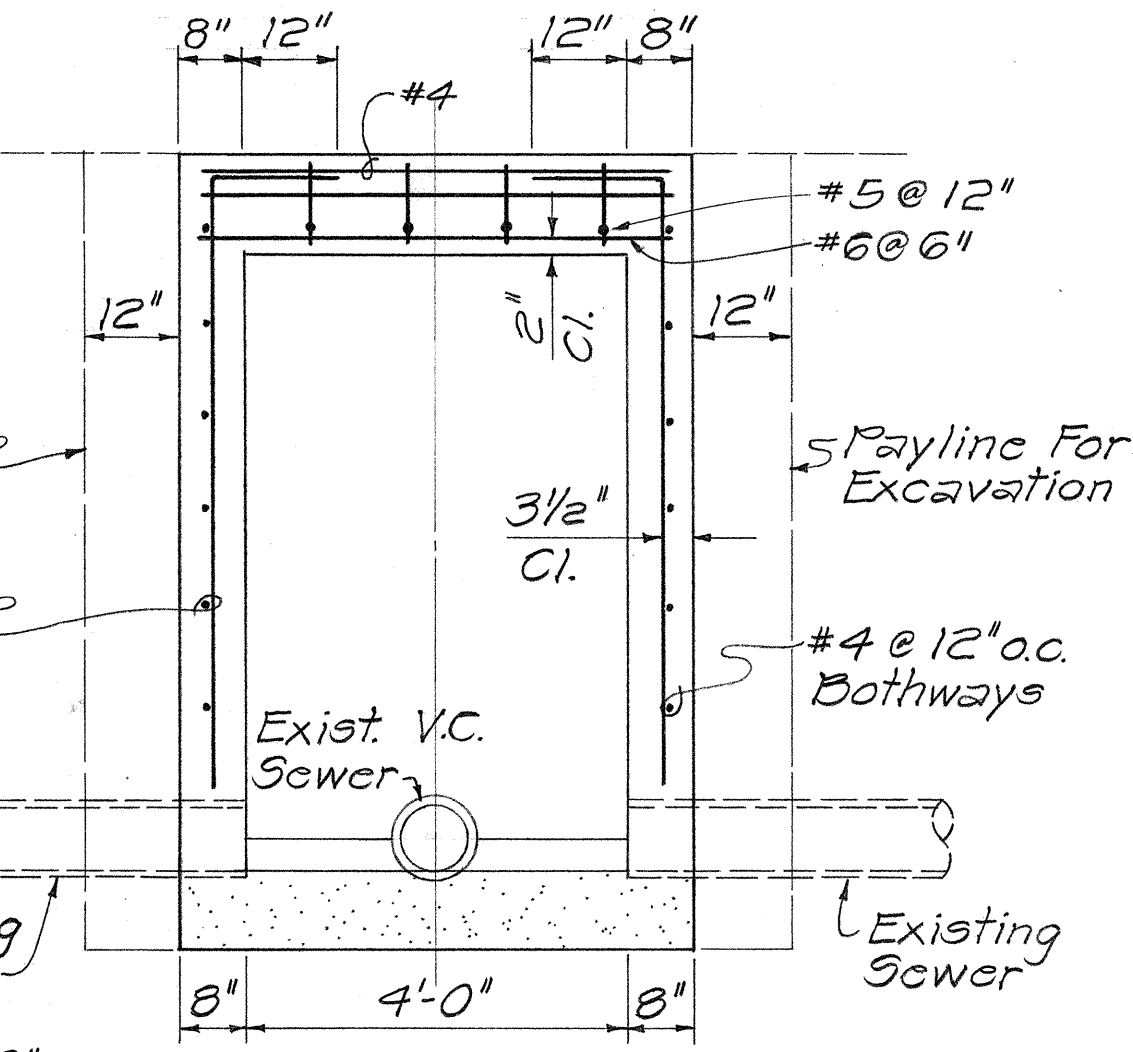


NOTE: The Contractor shall verify the position of existing lateral in the field.

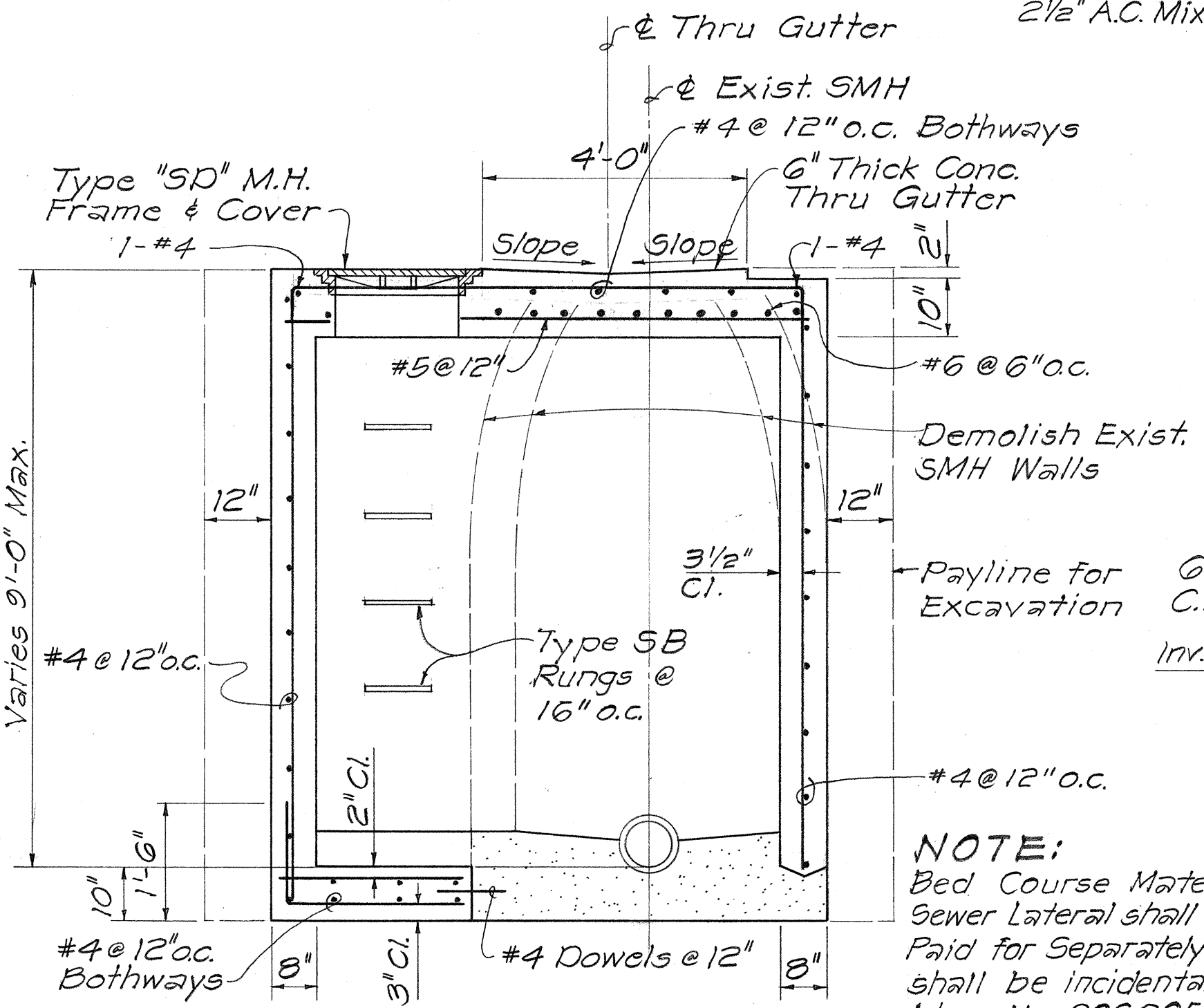
DETAIL OF NEW SEWER LATERAL AT MAUNAWAI PLACE



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



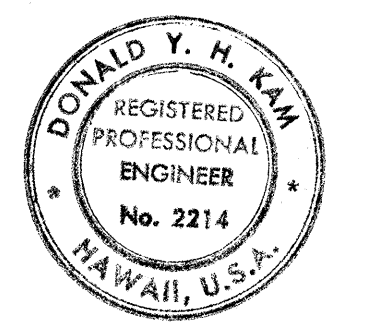
SECTION "B-B"
Scale: 1/2" = 1'-0"



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

NOTE: Bed Course Material for Sewer Lateral shall not be Paid for Separately but shall be incidental to Item No. 206.2050 Structural Excavation for Sewer System.

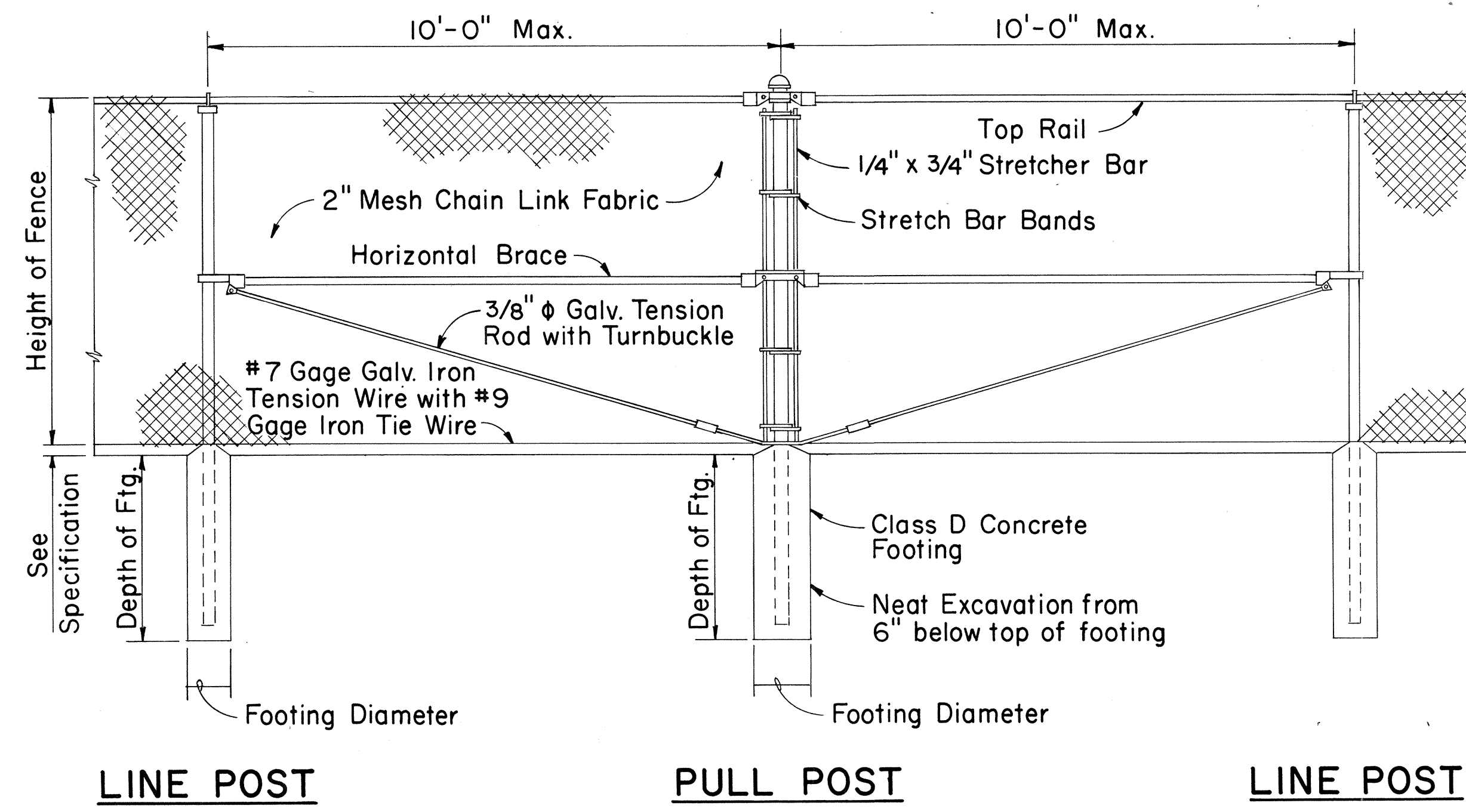
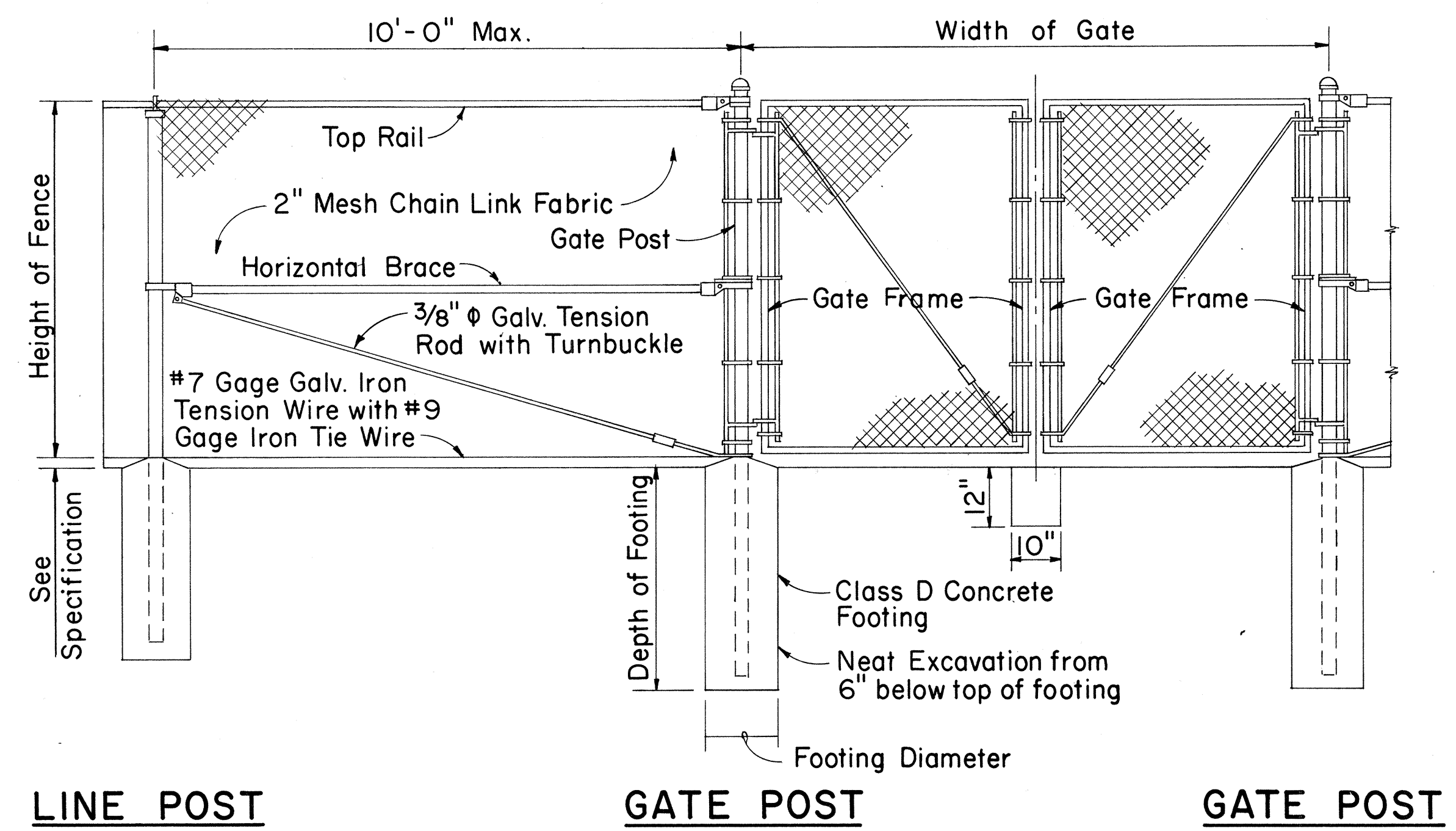
Approved: *Z. Aona* Date: 6/14/79
Chief, Division of Wastewater Management
Department of Public Works
City and County of Honolulu



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
SEWER MANHOLE RECONSTRUCTION
KAPIOLANI BOULEVARD
INTERSTATE ROUTE H-1
KAPIOLANI INTERCHANGE ON-RAMP
F.A.I. PROJ. NO. I-HI-1(157)-24

Scale: 1/2" = 1'-0" Date: 10-16-79
SHEET NO. 1 OF 1 SHEETS

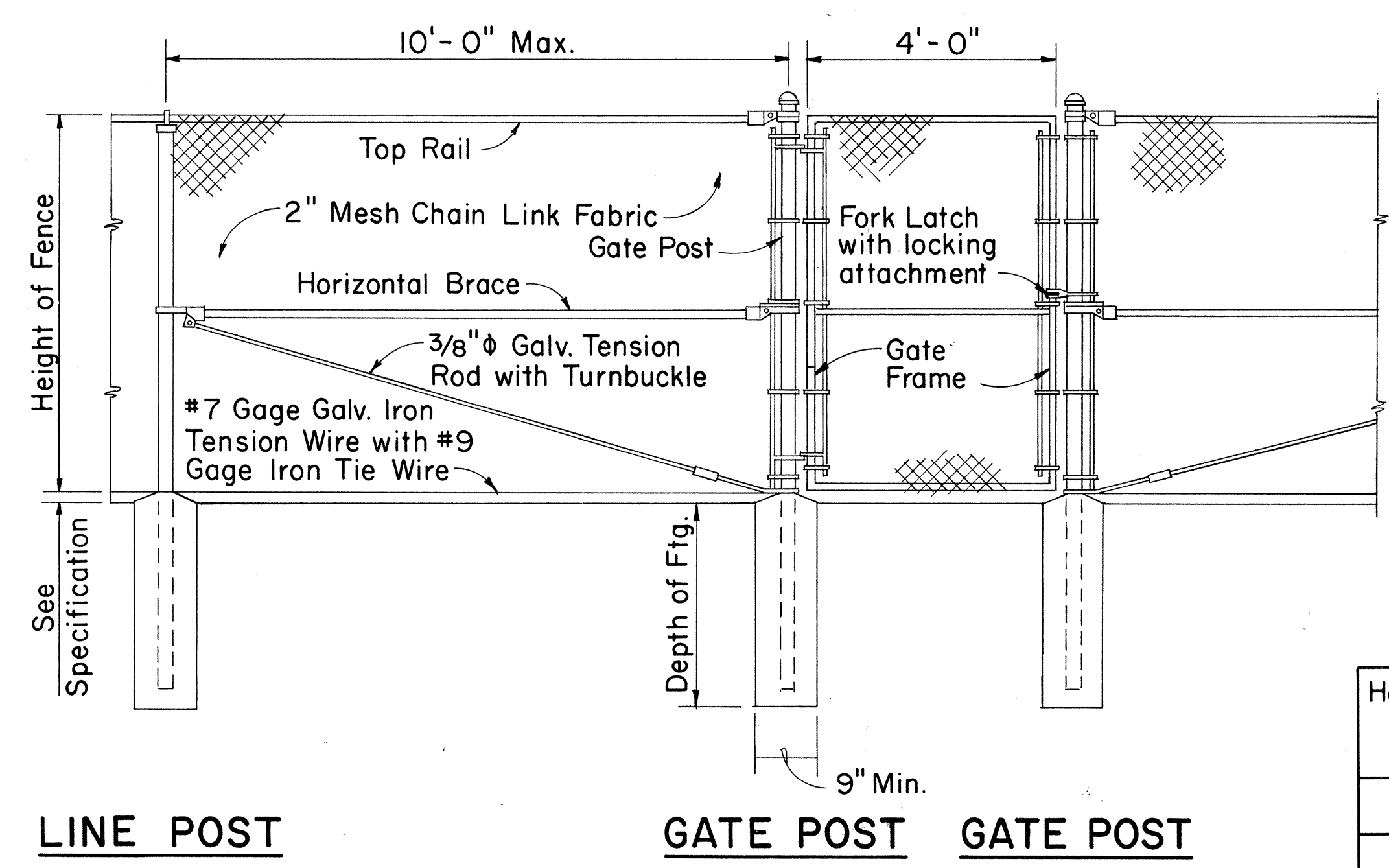
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-10(57)-24	1979	35	146



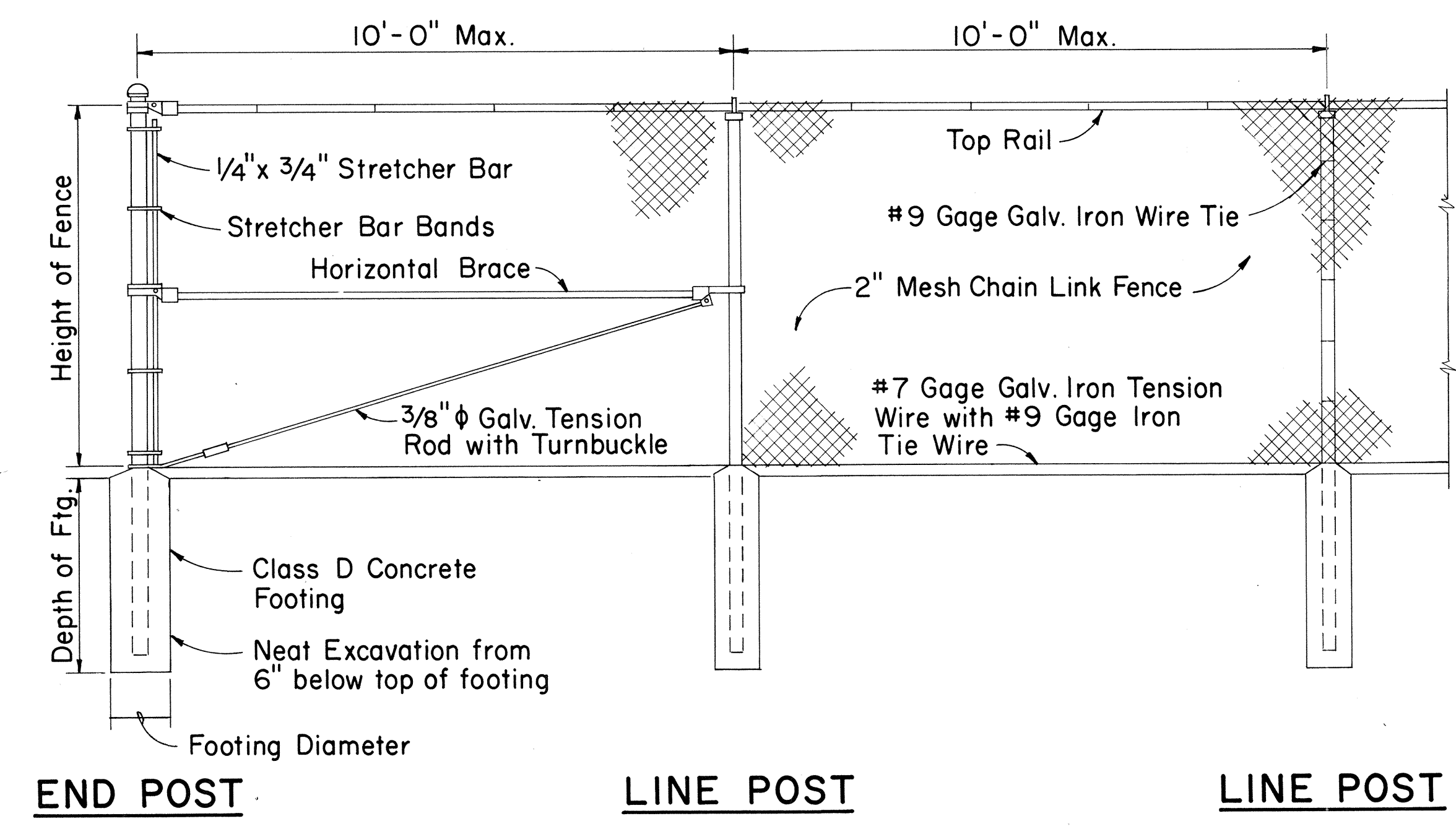
TYPICAL SECTION
(WITH CONCRETE FOOTING)

DETAIL OF CHAIN LINK GATE

- NOTE: 1. Gate fork latch and lock, flush plate and anchor, and plunger shall be installed with Gates, and shall be considered as incidental to Chain Link Fence Gate.
2. Gate frames shall be mitered and welded at corners.
3. Fence detail not shown shall be in accordance with the Standard Specifications.

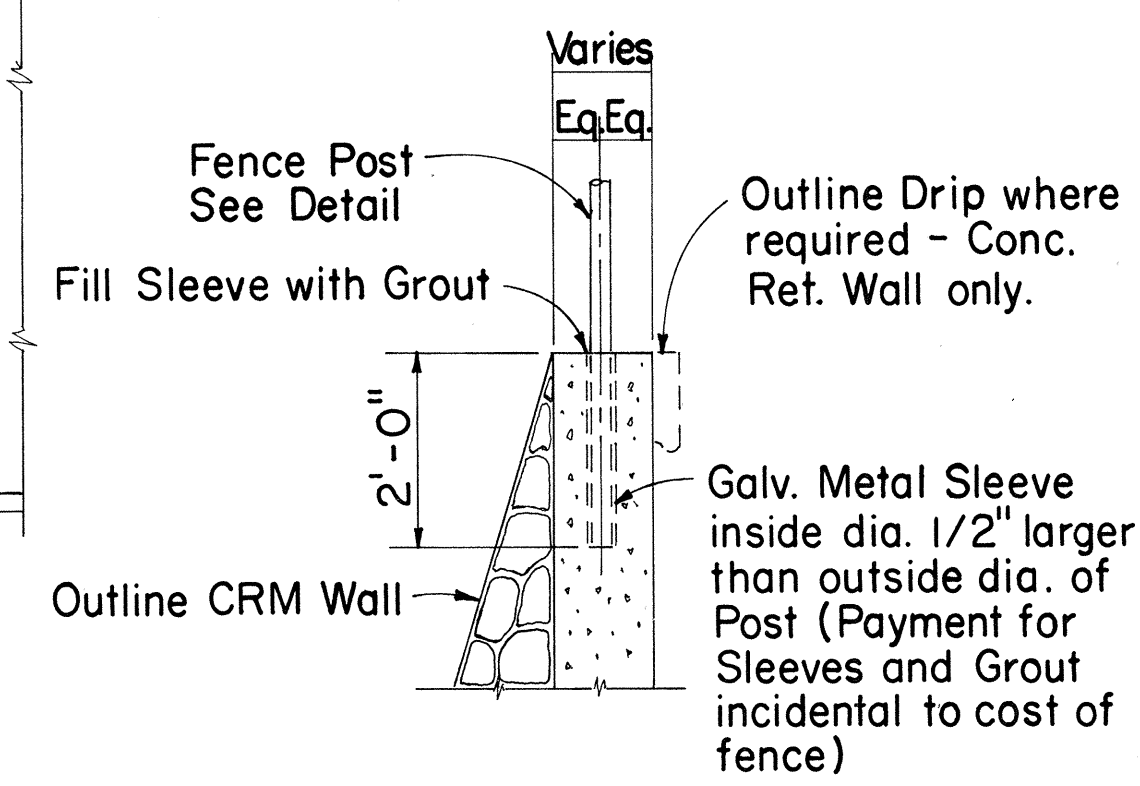


DETAIL OF 4 FT. CHAIN LINK GATE



CHAIN LINK FENCE DETAILS

Height of Fence	Minimum Depth of Footing		Minimum Footing Diameter	
	Line Post	Corner, Pull, End and Gate Posts	Line Post	Corner, Pull and End Posts
3'	2'-0"	2'-6"	8"	8"
4'	2'-6"	2'-6"	8"	8"
5'	3'-0"	3'-0"	8"	8"
6'	3'-0"	3'-0"	8"	9"



TYPICAL SECTION
(ON CRM & CONC. RET. WALL)

APPROVAL RECOMMENDED:
HIGHWAY DESIGN ENGINEER 12-4-69 DATE

APPROVED:
ASSISTANT CHIEF, ENGINEERING 12-10-69 DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS

CHAIN LINK FENCE
(WITH TOPRAIL)

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

DATE
DRAWN BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
ORIGINAL
PLAN
NOTE BOOK
No.