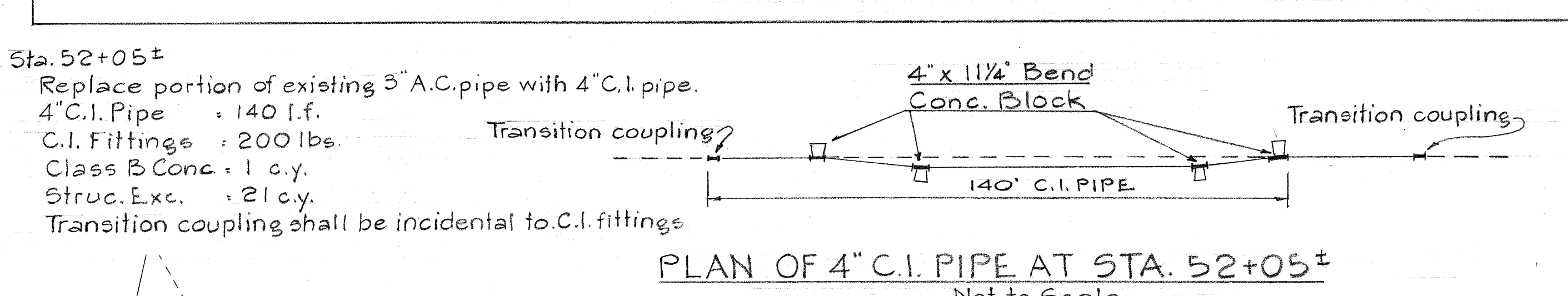
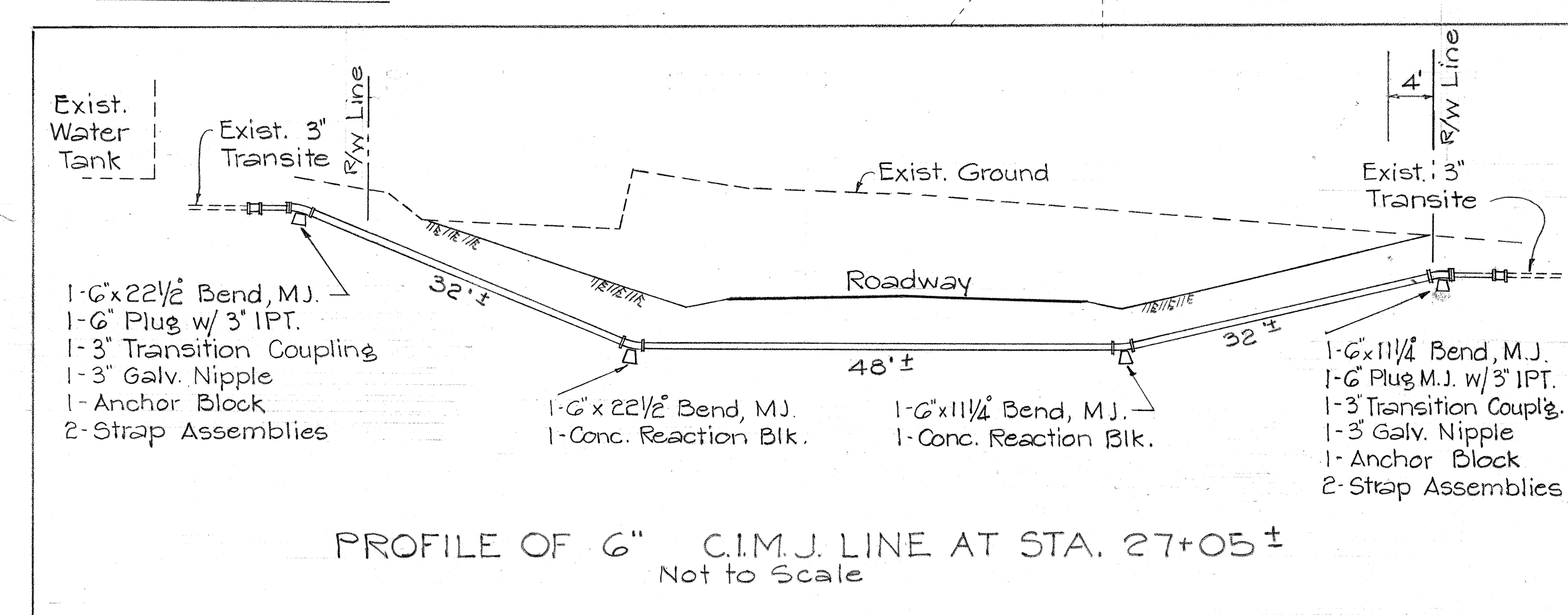
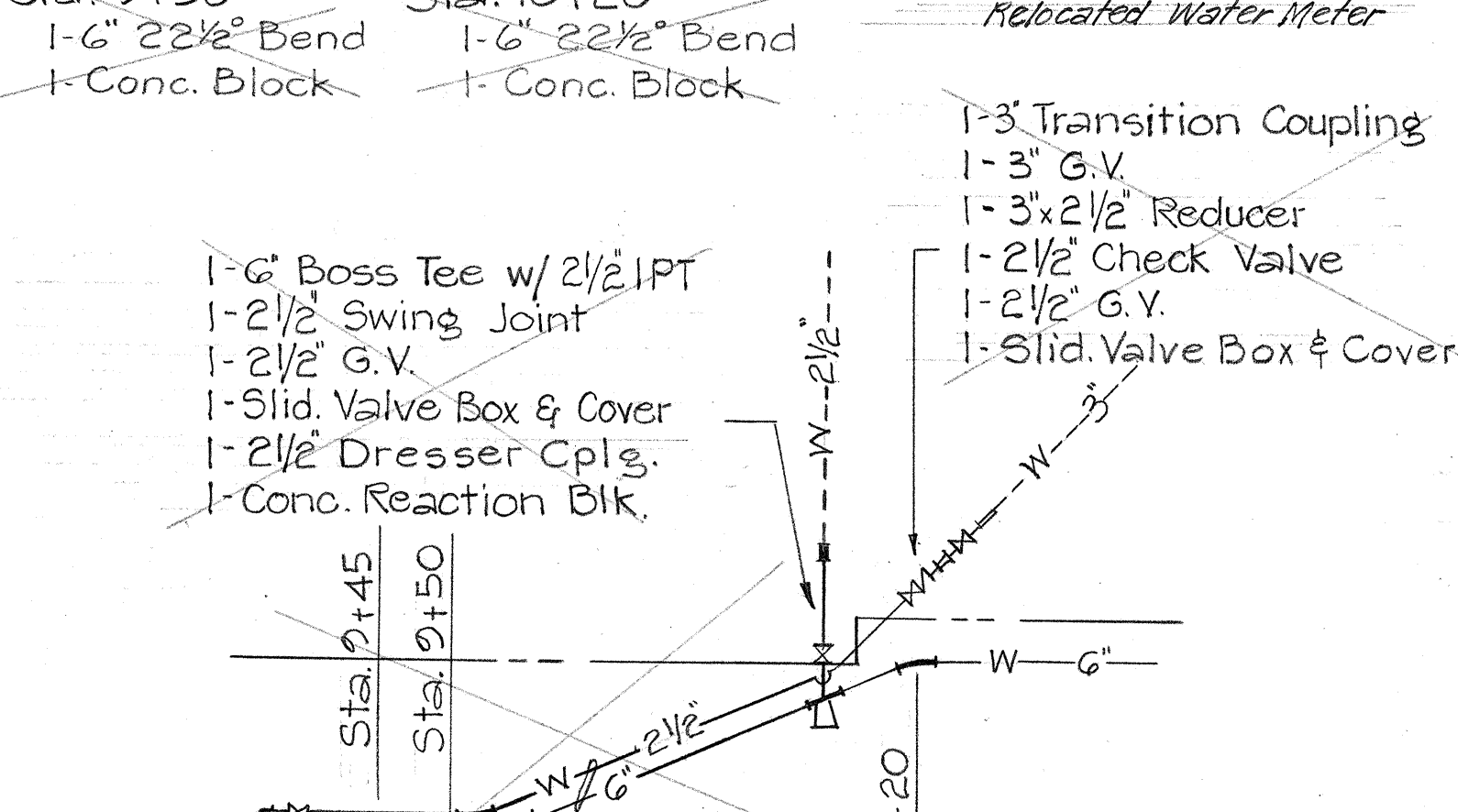
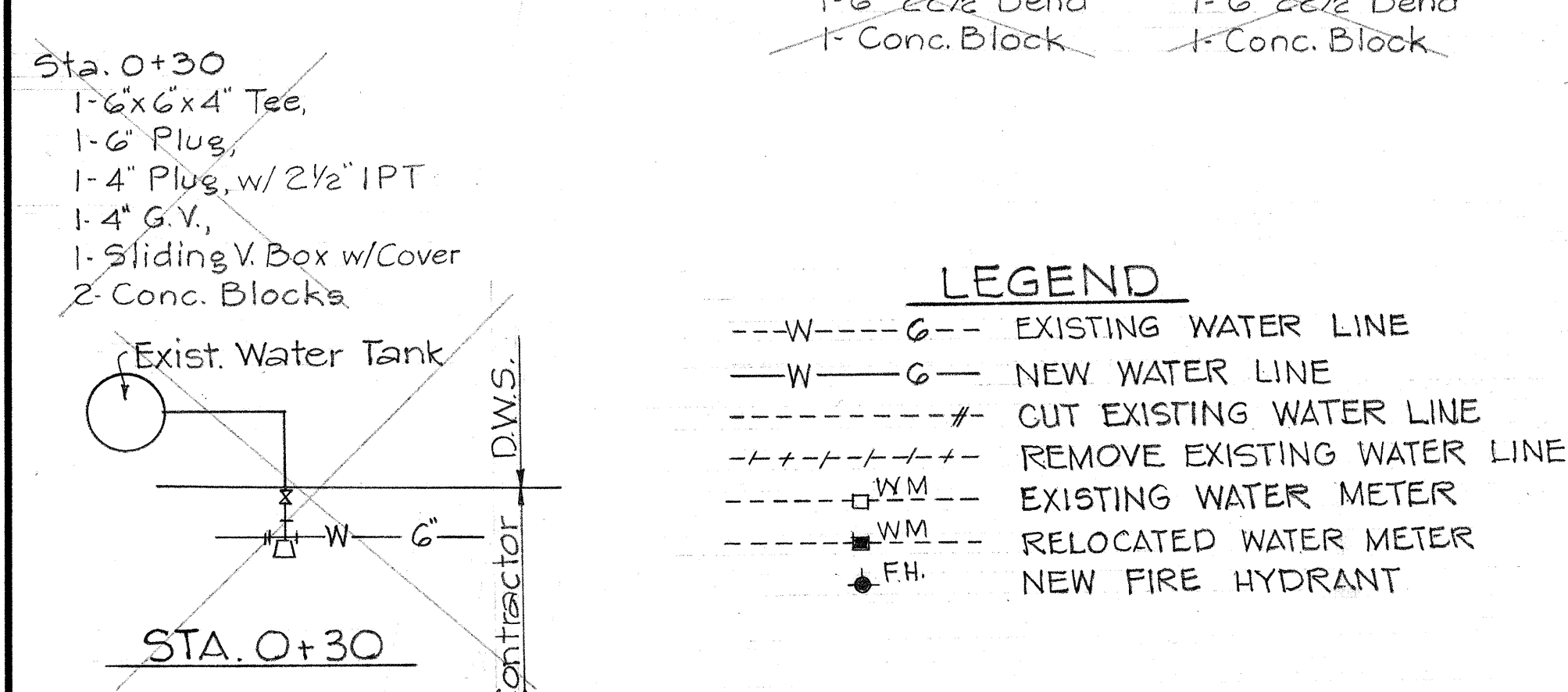
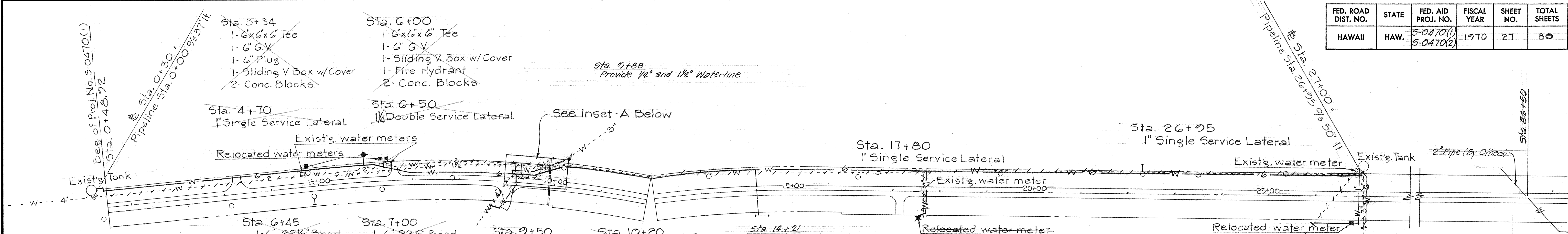


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0470(1) 5-0470(2)	1970	27	80



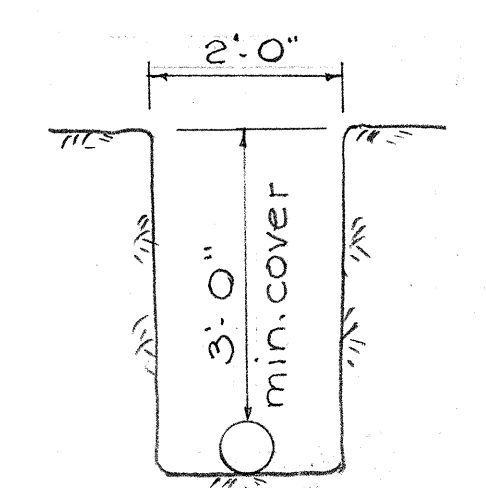
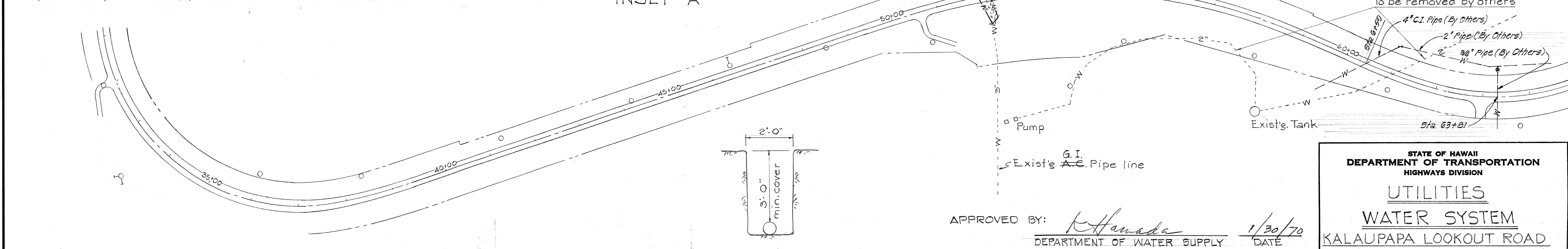
GENERAL NOTES:

1. All existing water lines shall be abandoned unless noted otherwise.
2. All connections to existing water system shall be made by the Dept. of Water Supply unless noted otherwise.
3. All excavation and backfill shall be done by the Contractor, including excavation and backfill for work to be done by the B.W.S.
4. All materials for 6" C.I. line and appurtenances from Sta. 0+30 to 27+00, including the 6" C.I. lines across the road at Sta. 27+00, except concrete and reinforcing steel shall be furnished by the Dept. of Water Supply. All materials for other lines shall be furnished by the Contractor.
5. All materials furnished by the Dept. of Water Supply shall be obtained at the Dept. of Water Supply Baseyard at Kaunakakai. The Contractor shall be responsible for loading at the baseyard, hauling and unloading at the project site.
6. All water meters to be relocated shall be located outside the R/W on the side the respective meter is to service.
7. Betterment, G-inch C.I. pipe in lieu of replacing with existing pipe sizes.

INSET "A"

2 Pipelines in Same Trench

- 1-6" x 6" Tee, M.J.
- 2-6" G.V.
- 1-6" Boss Tee, M.J. w/ 2 1/2" IPT
- 2-6" x 22 1/2" Bends, M.J. (Vert.)
- 1-6" x 6" Tee, M.J.
- 1-6" Plug, M.J.
- 4-Slid. Valve Box w/ Covers
- 1-2 1/2" x 90° Elbow
- 1-2 1/2" x 45° Elbow
- 1-2 1/2" G.V.
- 6-Conc. Reaction Blocks
- 1-Ancor Block w/ Straps
- 1-4" G.V.
- 1-4" x 90° C.I. Bend
- 1-4" C.I. Solid Sleeve



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

APPROVED BY: K. Hanada DATE: 1/30/70
DEPARTMENT OF WATER SUPPLY

SEE SHEET 27S-1 FOR REVISED SCOPE OF WORK.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UTILITIES
WATER SYSTEM

KALAUPAPA LOOKOUT ROAD
PROJ. NO. S-0470(1) & (2)

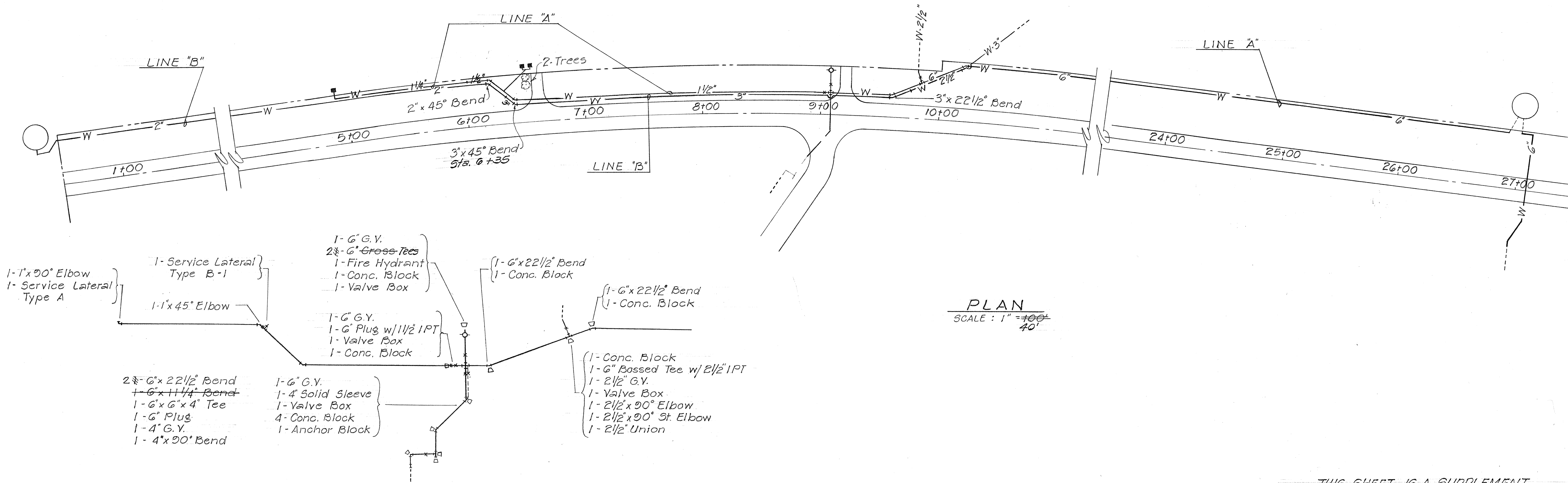
Scale: As Noted Date: Sept. 1970

SHEET No. 1 OF 3 SHEETS

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

- LINE "A"
- Sta. 4+90 to 6+00
Furnish & Install 1 1/4" Galv. Pipe
163 Lin. Ft.
- Sta. 6+00 to 9+00
Furnish & Install 1 1/2" Galv. Pipe
247 Lin. Ft.
- Sta. 9+00 to 27+00
Install New 6" C.I. Pipe
1800 Lin. Ft.
- Sta. 9+09
Install Fire Hydrant
1 Ea.
- Install New 6" C.I. Pipe
110 Lin. Ft.

- Sta. 0+30 to 6+30
Furnish & Install New 2" Galv. Pipe
613 Lin. Ft.
- Sta. 6+30 to 9+75
Furnish & Install New 3" A.C. Pipe
352 Lin. Ft.
- Sta. 9+75 to 10+10
Furnish & Install New 2 1/2" Galv. Pipe
15 Lin. Ft.



PLAN
SCALE: 1" = 40'

SCHEMATIC DIAGRAM ~ LINE "A"
NOT TO SCALE

THIS SHEET IS A SUPPLEMENT
SHEET INCORPORATED INTO THE
PLANS AT THE TIME OF THE
"AS-BUILT" POSTING.

C.C.O. # 2

KALAUPAPA LOOKOUT ROAD
PROJ. NO S-0470 (1)

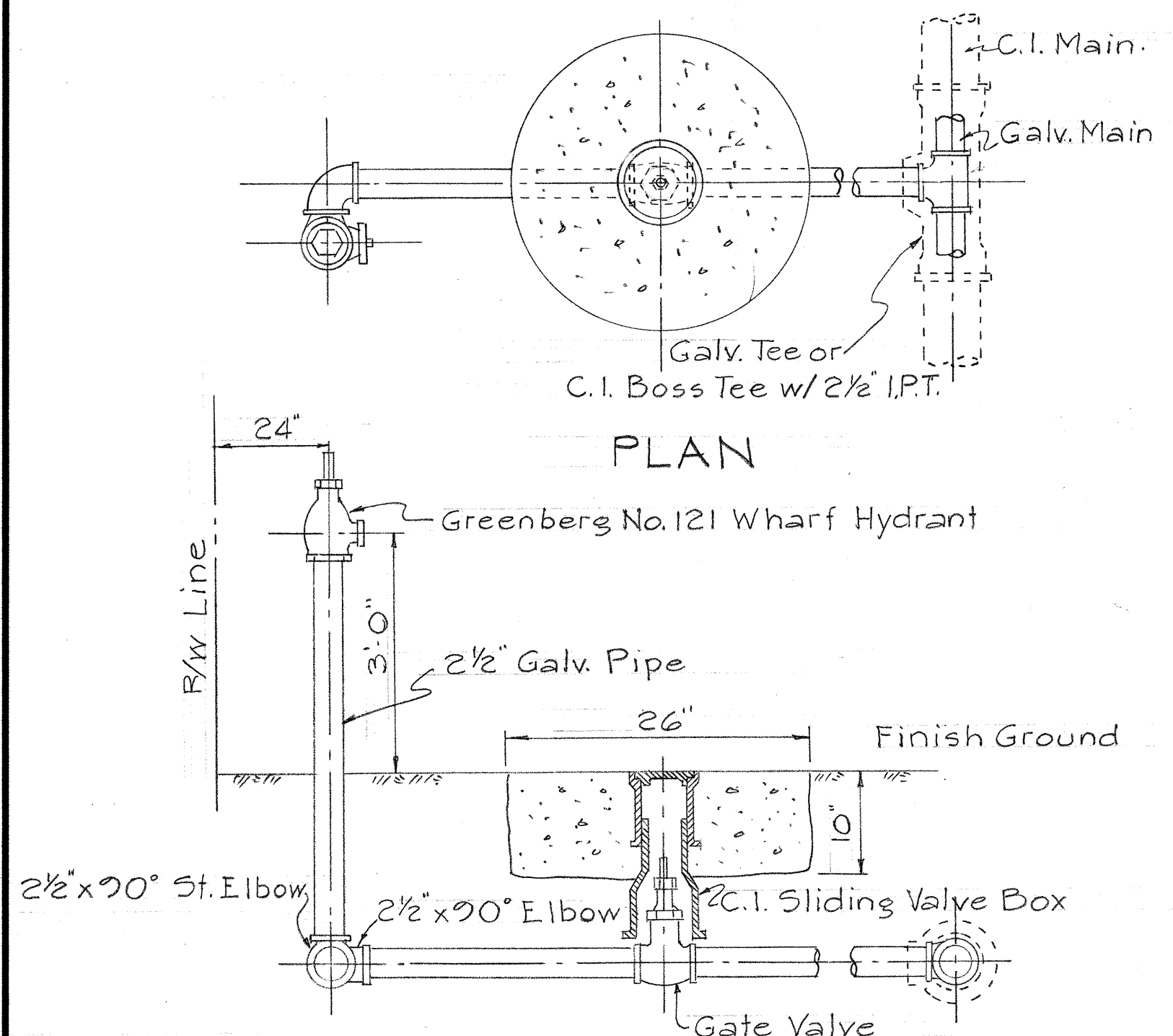
SCALE: AS NOTED FEB. 22, 1971

SHEET No. OF SHEETS

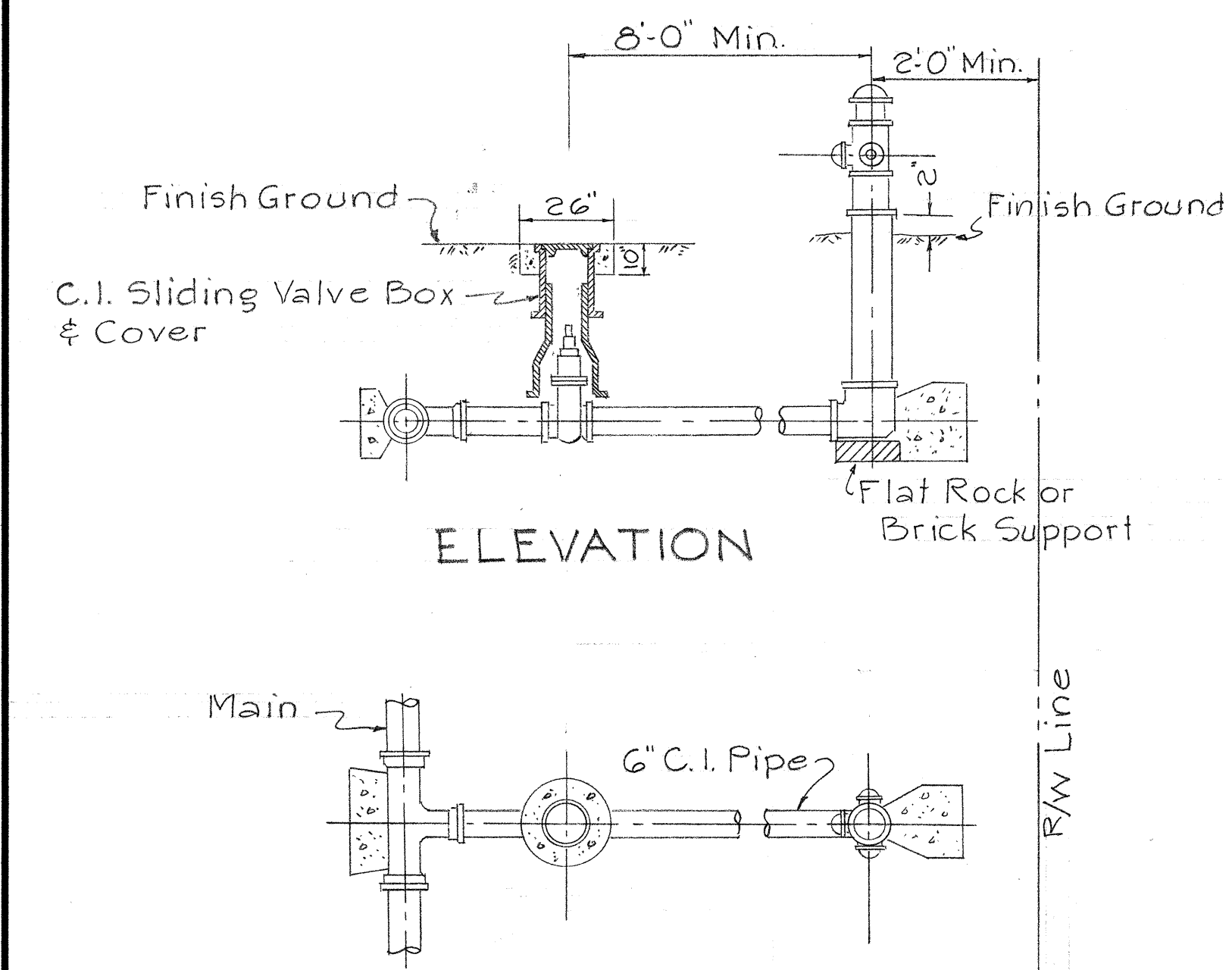
27S-1

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0470(1) 5-0470(2)	1970	28	80

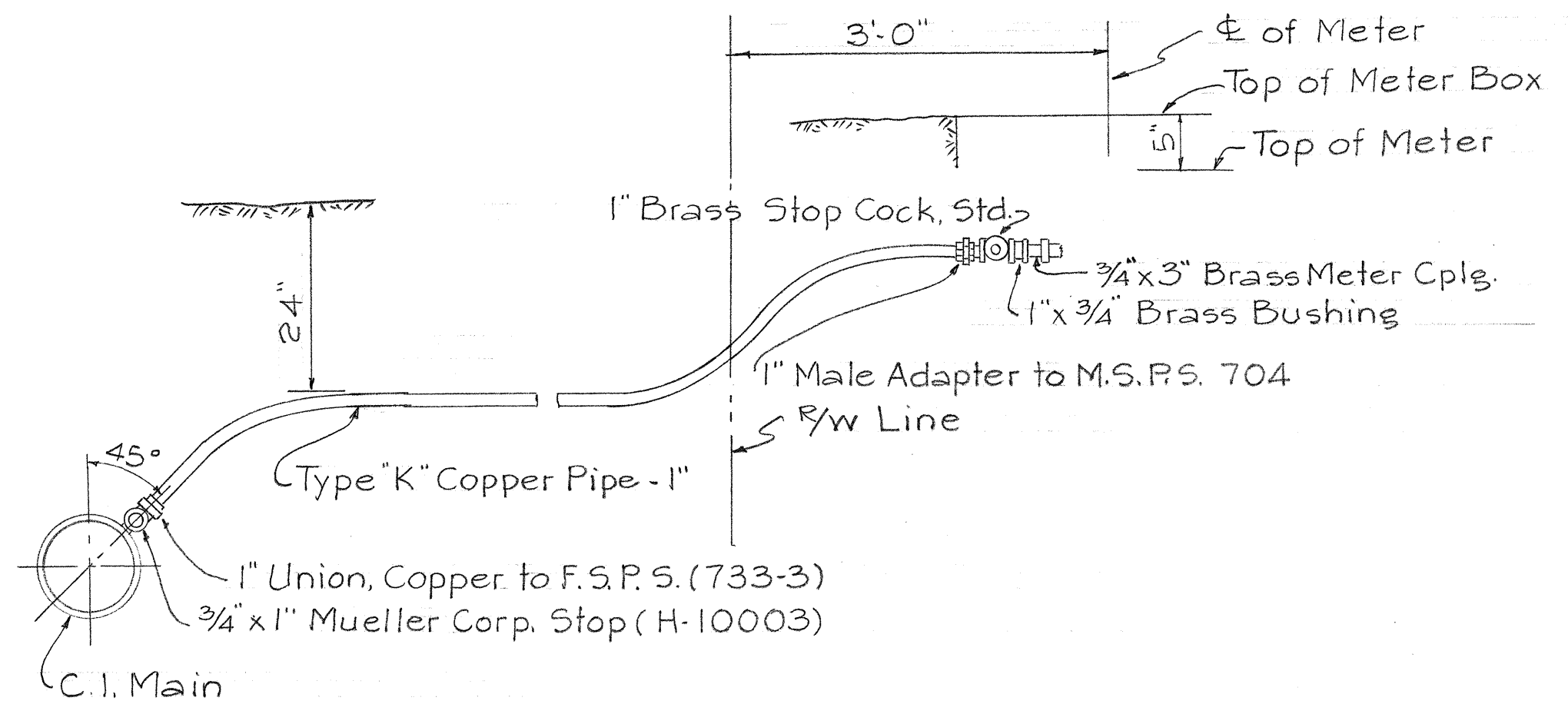


STANDPIPE CONNECTION
NOT TO SCALE

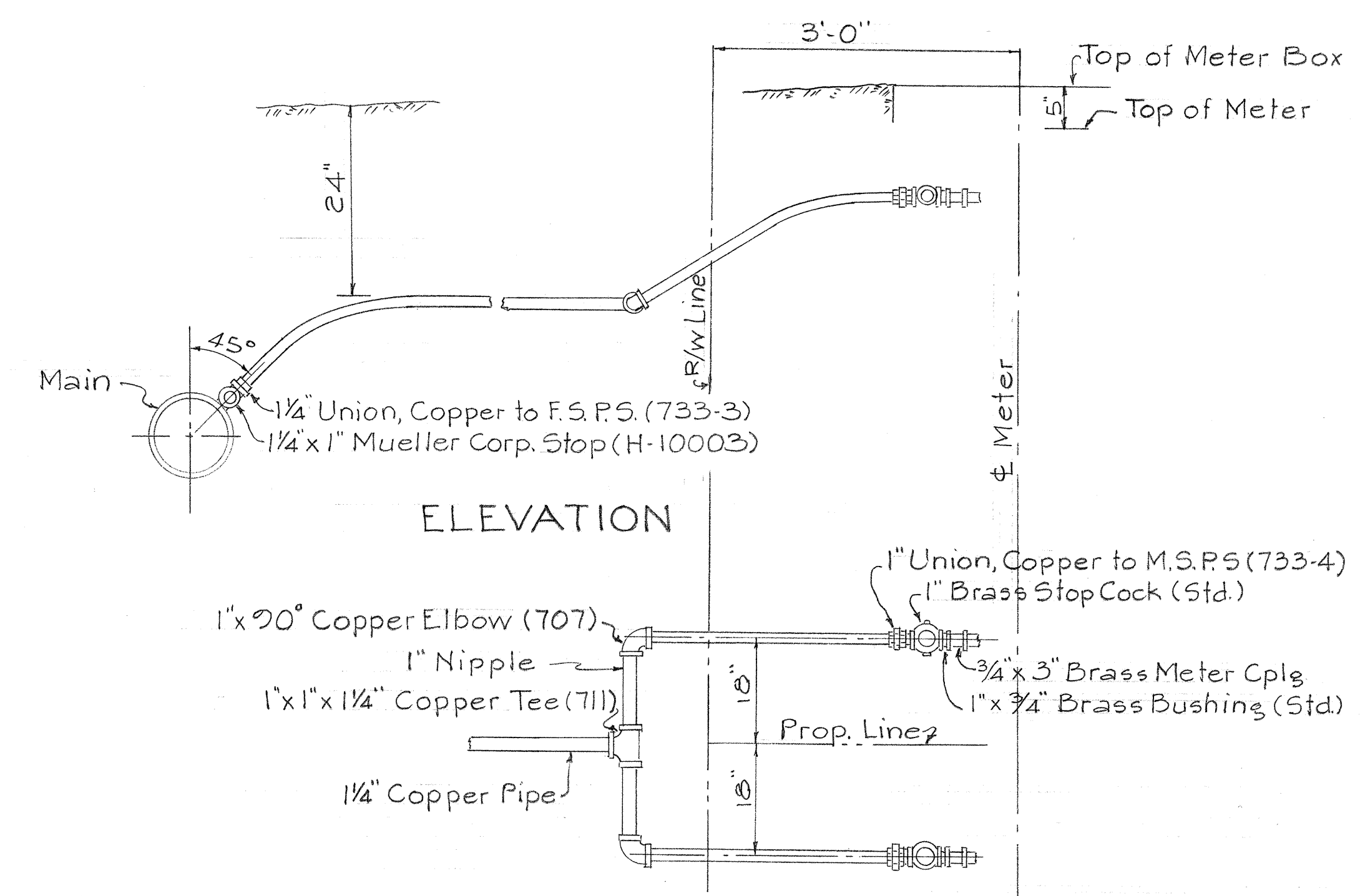


HYDRANT CONNECTION
NOT TO SCALE

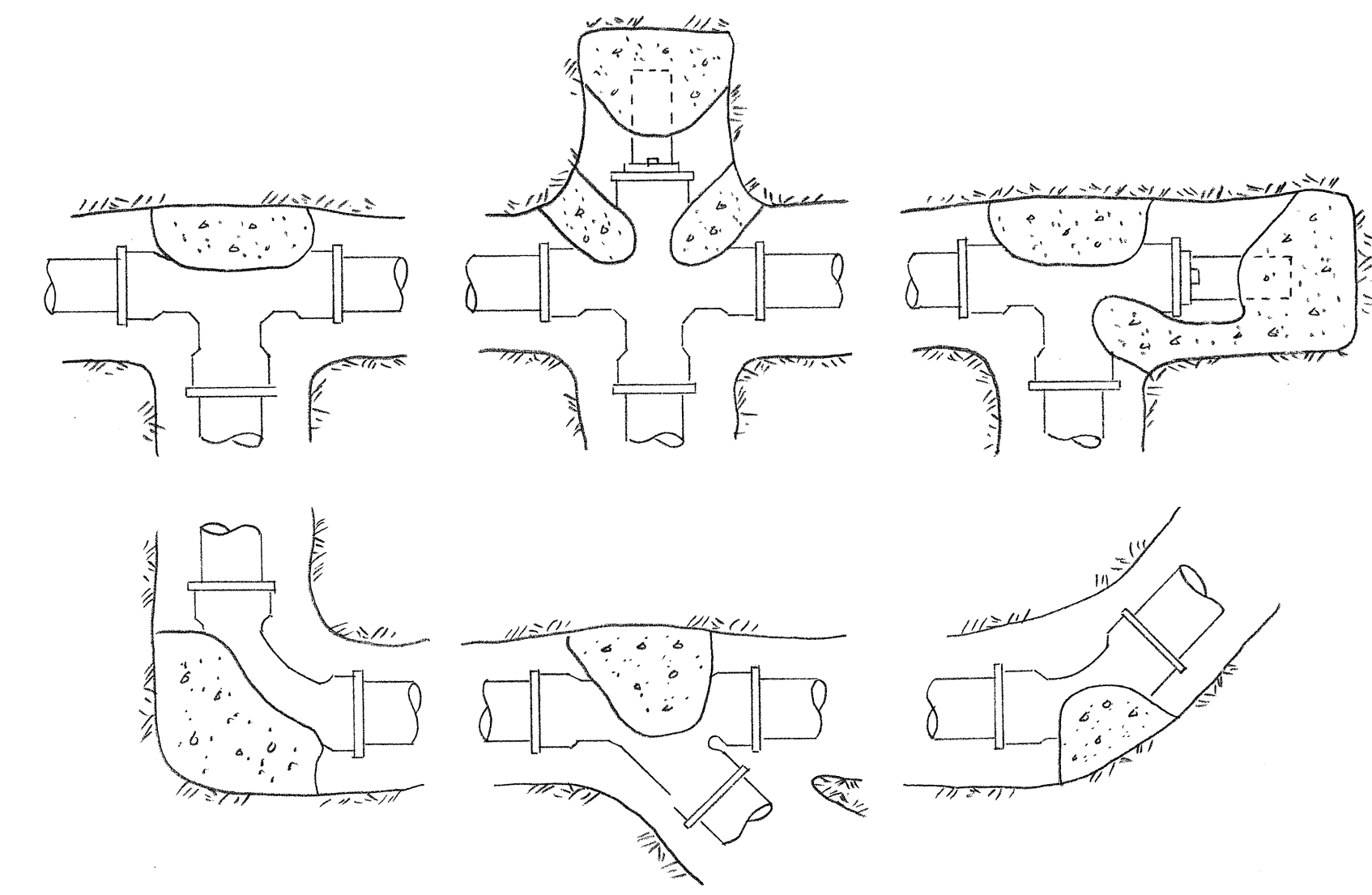
Note:
Fire hydrant shall be Greenberg No. 76 or equal



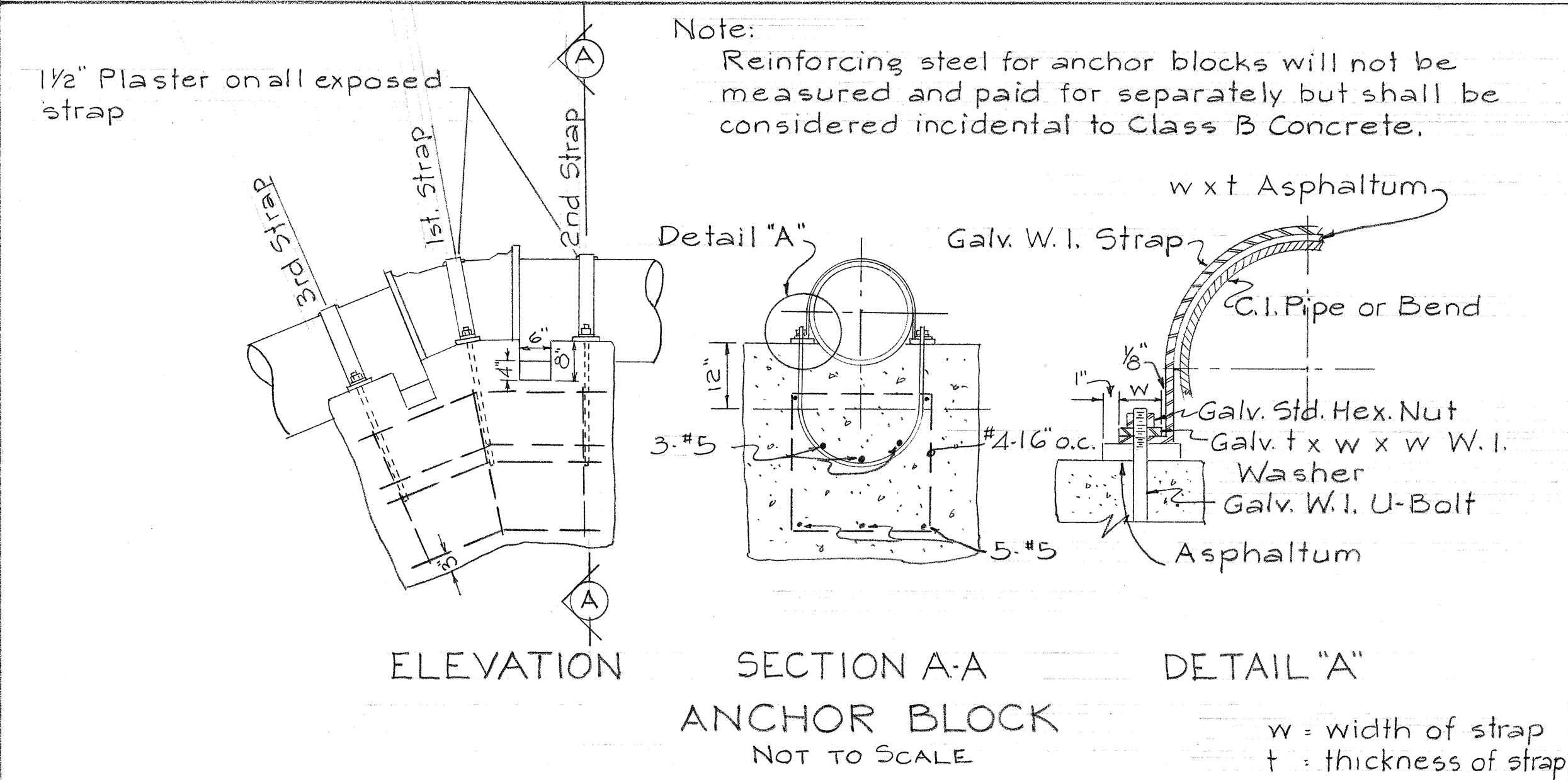
1/4-INCH SERVICE LATERAL WITH TYPE A SERVICE CONNECTION
NOT TO SCALE



1/4-INCH SERVICE LATERAL WITH TYPE B-1 SERVICE CONNECTION
NOT TO SCALE



REACTION BLOCKS
NOT TO SCALE



SECTION A-A
ANCHOR BLOCK
NOT TO SCALE

DATA FOR ANCHOR BLOCK & STRAP											
Pipe Size	U-Bolt Radius	U-Bolt Size	Strap Dim.	1/4 (90°) Tee c.y. Conc.	No of Straps	1/8 (45°) c.y. Conc.	No of Straps	1/6 (22 1/2°) c.y. Conc.	No of Straps	1/2 (11 1/4°) c.y. Conc.	No of Straps
4"	4"	1/2"	2"x1/4"	1 1/2	2	3/4	2	1/2	2	1/4	2
6"	5 1/2"	3/4"	3"x1/4"	3	2	1 1/4	2	1	2	1/2	2

Approved: *[Signature]* 12/11/69
Director
D.W.S. Date

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
BOARD OF WATER SUPPLY
COUNTY OF MAUI
DETAILS
WATER SYSTEM
KALAUPAPA LOOKOUT ROAD
PROJ. No 5-0470(1)

