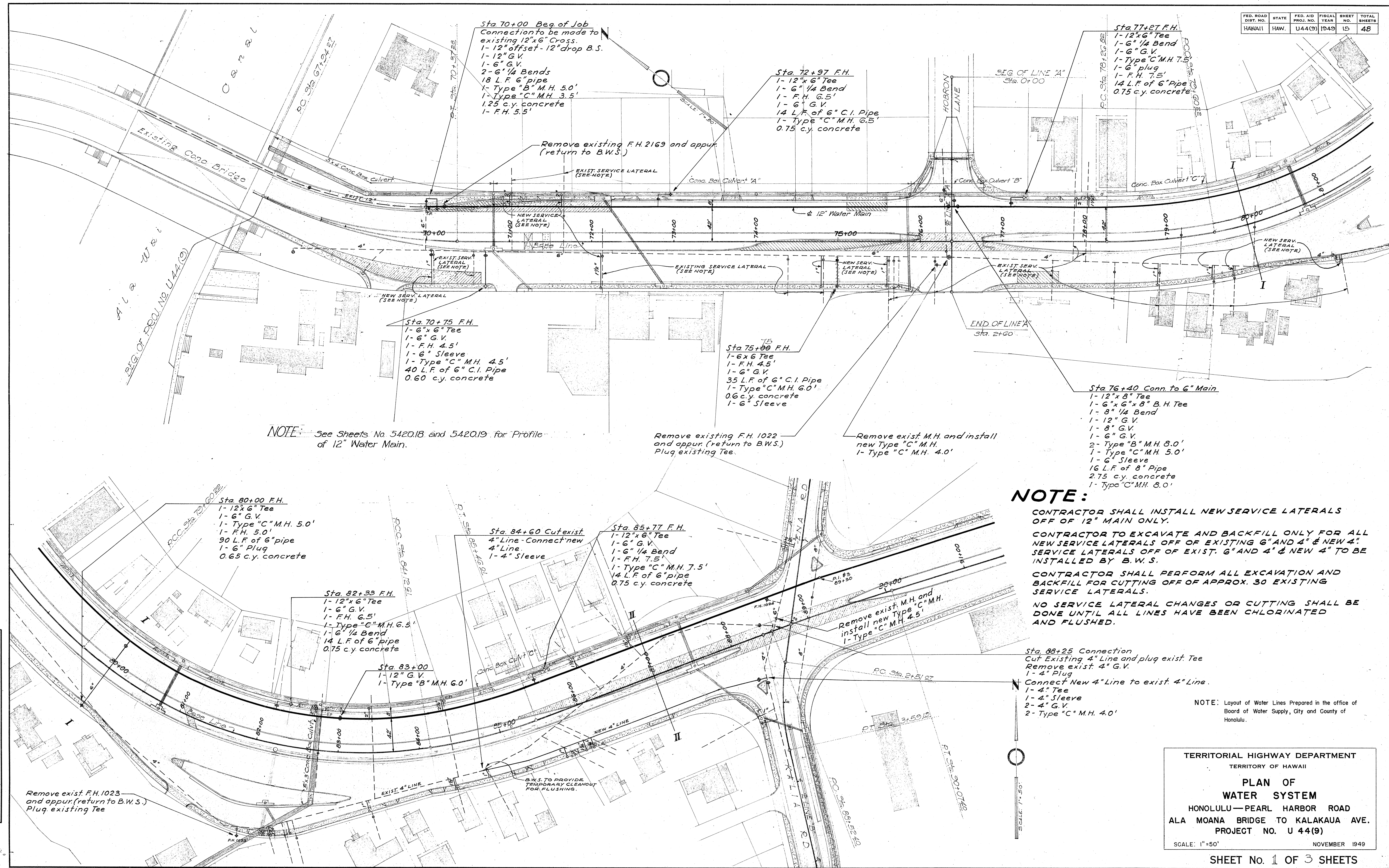


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	U44(9)	1949	15	48



NOTE:

CONTRACTOR SHALL INSTALL NEW SERVICE LATERALS OFF OF 12" MAIN ONLY.

CONTRACTOR TO EXCAVATE AND BACKFILL ONLY FOR ALL NEW SERVICE LATERALS OFF OF EXISTING 6" AND 4" & NEW 4" SERVICE LATERALS OFF OF EXIST. 6" AND 4" & NEW 4" TO BE INSTALLED BY B.W.S.

CONTRACTOR SHALL PERFORM ALL EXCAVATION AND BACKFILL FOR CUTTING OFF OF APPROX. 30 EXISTING SERVICE LATERALS.

NO SERVICE LATERAL CHANGES OR CUTTING SHALL BE DONE UNTIL ALL LINES HAVE BEEN CHLORINATED AND FLUSHED.

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII

**PLAN OF
 WATER SYSTEM**

HONOLULU—PEARL HARBOR ROAD
 ALA MOANA BRIDGE TO KALAKAUA AVE.
 PROJECT NO. U 44(9)

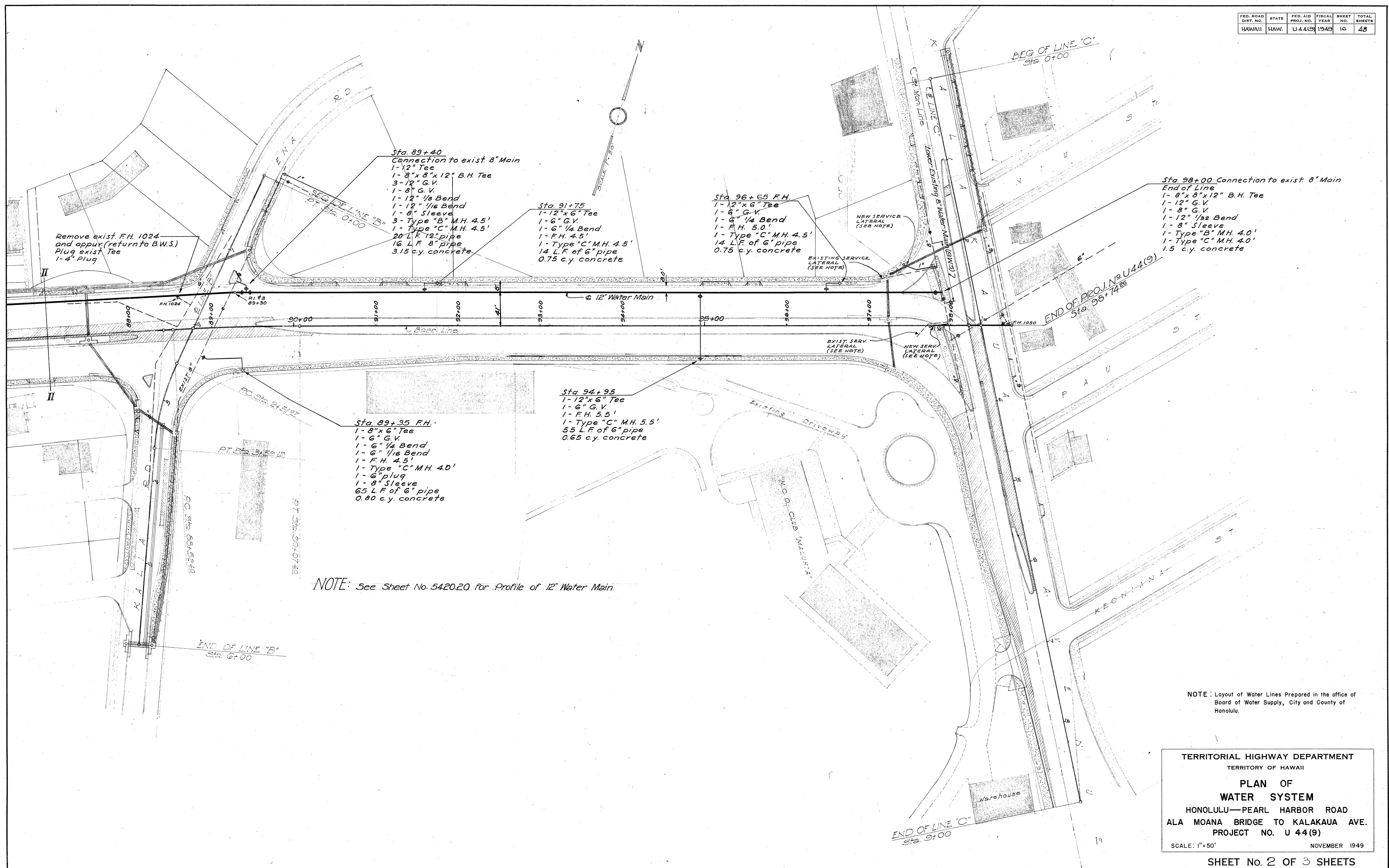
SCALE: 1"=50' NOVEMBER 1949

SHEET No. 1 OF 3 SHEETS

5420.15

SURVEY PLOTTED BY	DATE
PLAN	11-1-49
TRACED BY	
QUANTITIES CHECKED BY	
NOTE BOOK NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	U 44(9)	1949	16	48



NOTE: See Sheet No. 5420.20 for Profile of 12" Water Main.

NOTE: Layout of Water Lines Prepared in the office of Board of Water Supply, City and County of Honolulu.

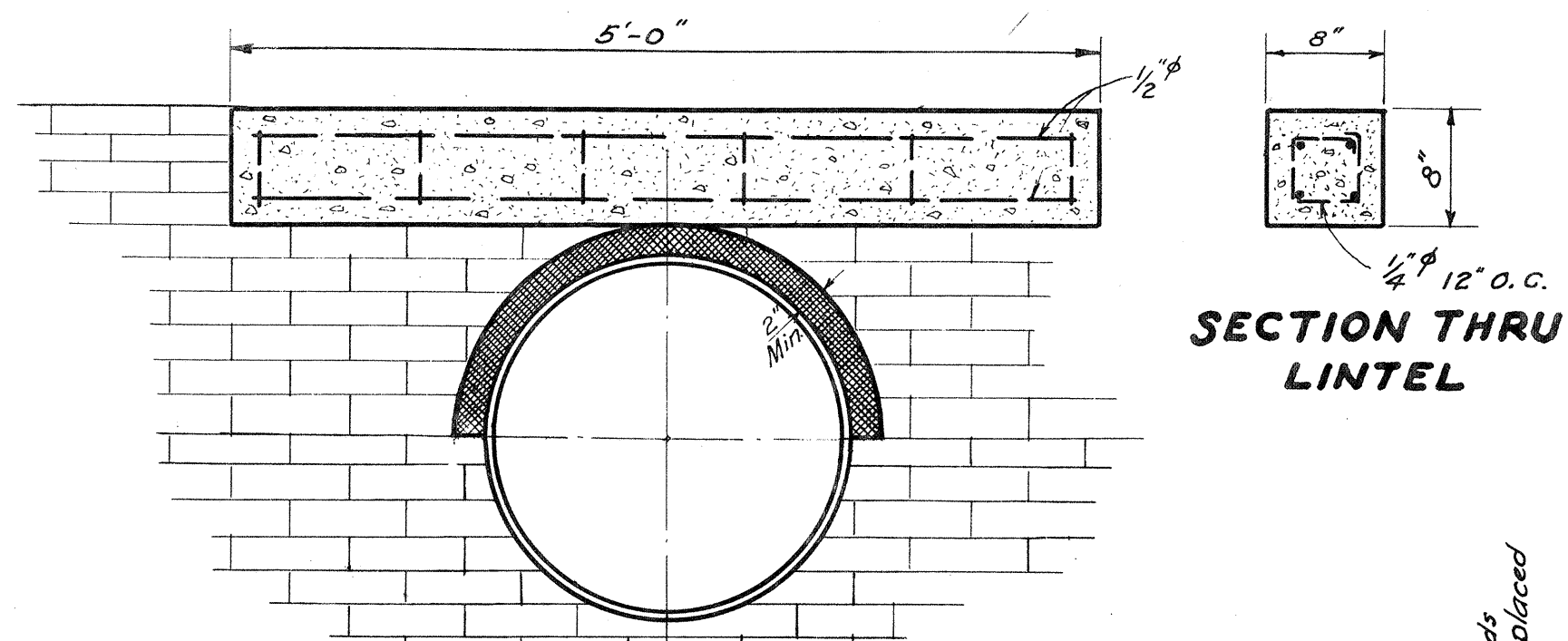
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

PLAN OF
WATER SYSTEM

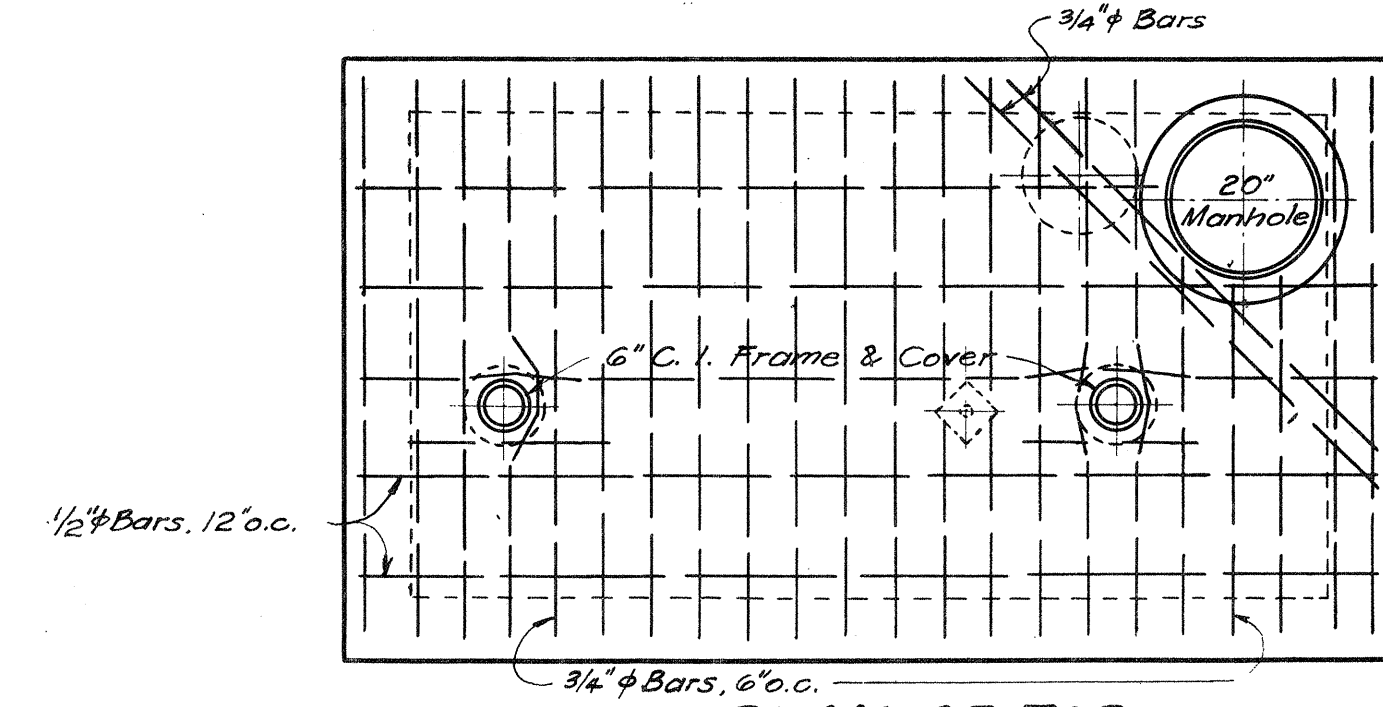
HONOLULU—PEARL HARBOR ROAD
ALA MOANA BRIDGE TO KALAKAUA AVE.
PROJECT NO. U 44(9)

SCALE: 1"=50'

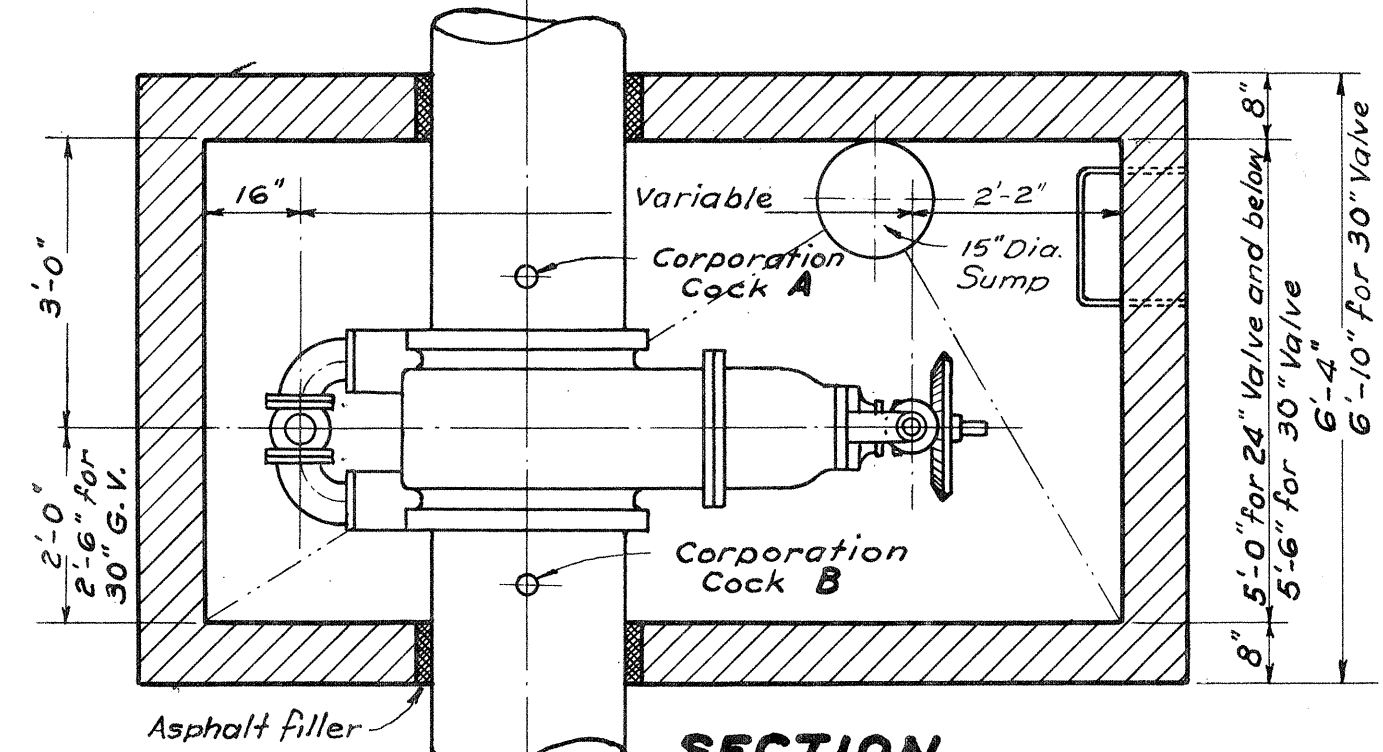
NOVEMBER 1949



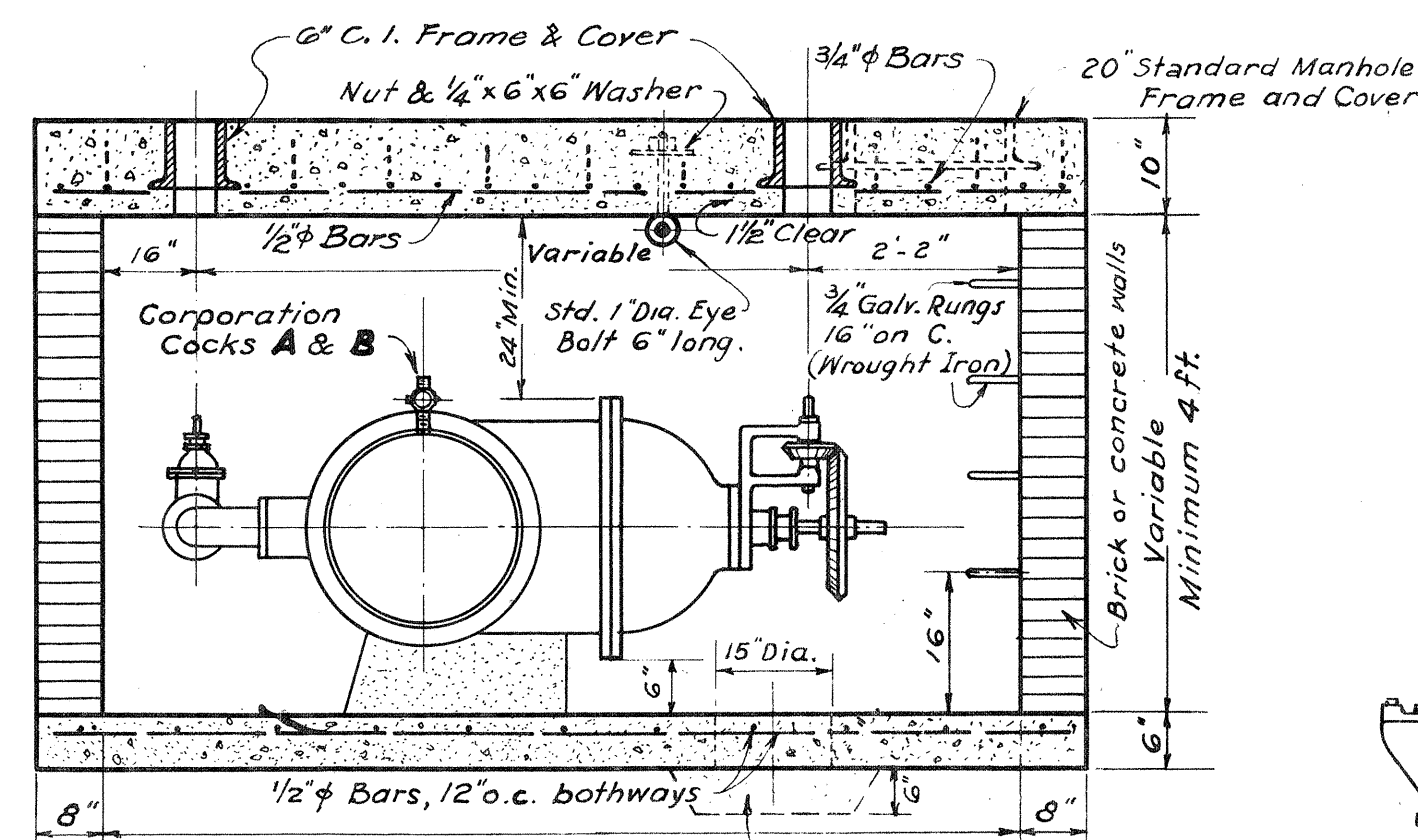
DETAIL OF LINTEL & ASPHALT FILLER
Scale: 1" = 1'-0"



PLAN OF TOP

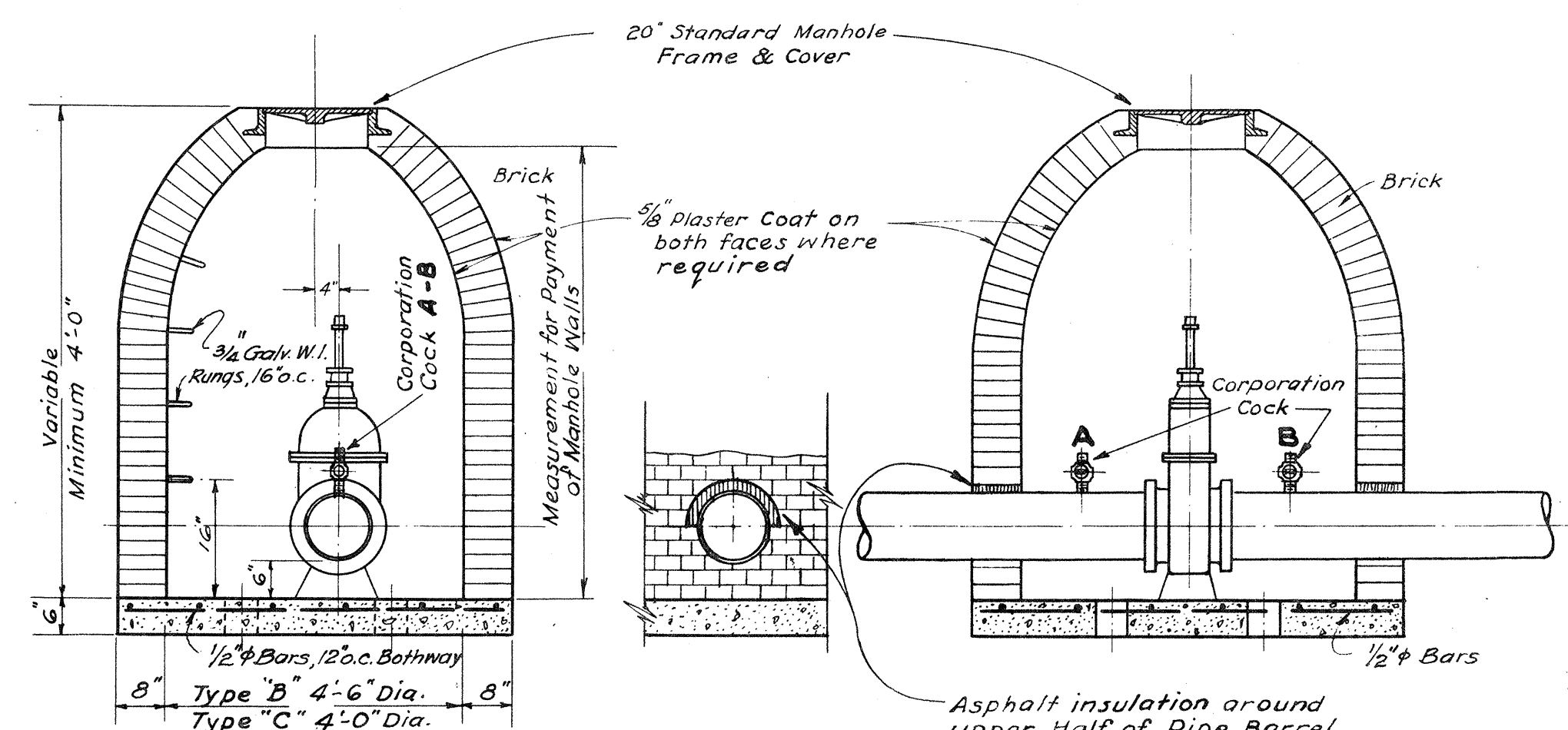


SECTION

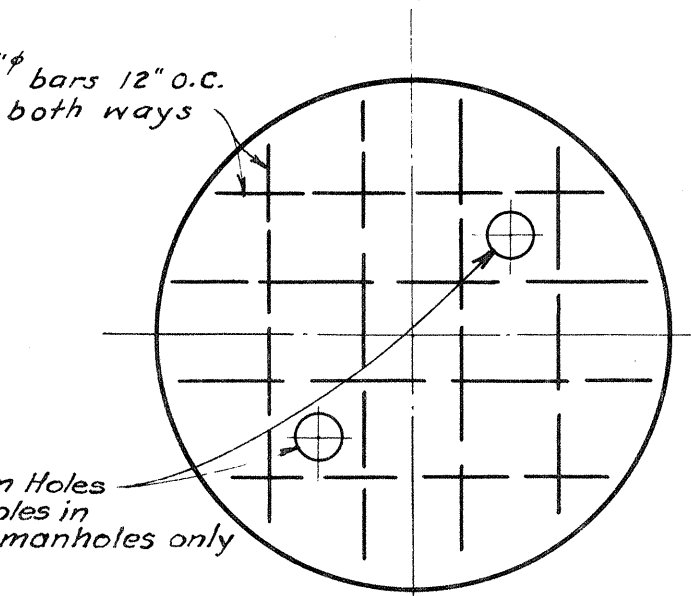


SECTION

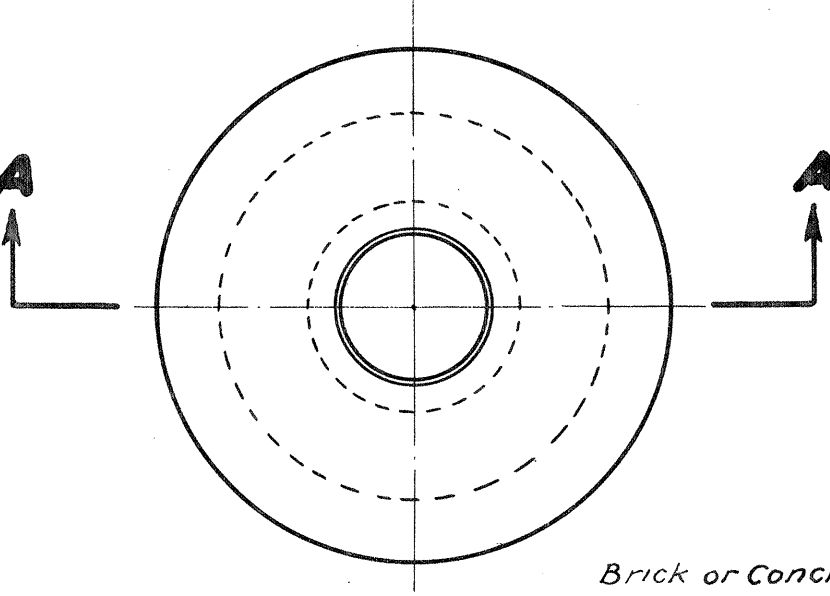
TYPE "A" MANHOLE FOR BEVEL GEARED GATE VALVES
Scale: 1/2" = 1'-0"



DETAIL OF ASPHALT FILLER



STEEL DETAIL IN BOTTOM SLAB



PLAN TYPES "B" AND "C" MANHOLES
TYPE "B" 4'-6" DIA. (For 12" Valve)
TYPE "C" 4'-0" DIA. (For 6" & 8" Valves)
Scale: 1/2" = 1'-0"

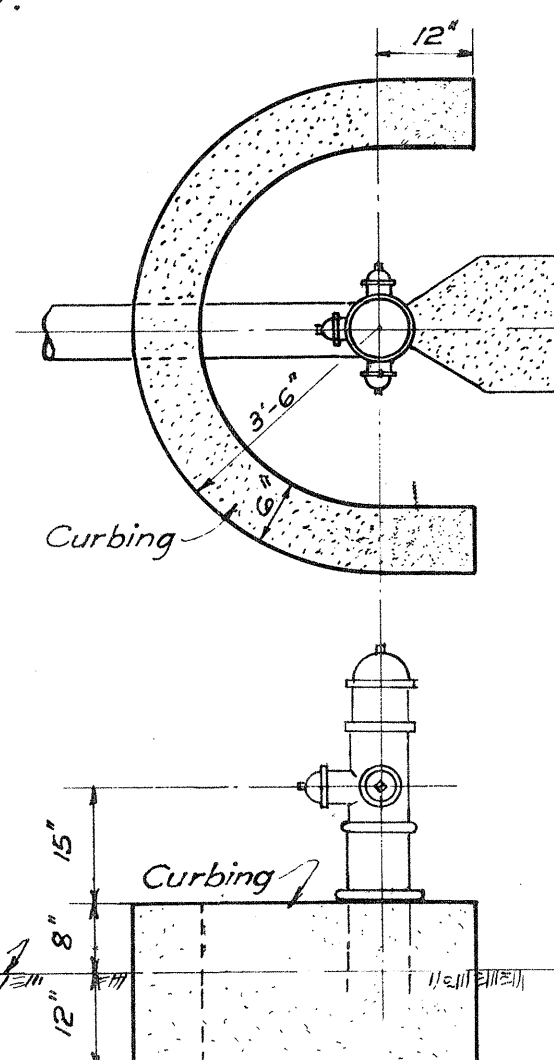
TABLE "A"
REQUIRED CORPORATION COCK SIZES

DIA. OF MAIN INCHES	INLET SIZE CORR. COCK	
	A	B
6	1"	1"
8	1"	1"
12	1"	1"
16	1"	1"
20	1"	1"
24	1 1/2"	1"
36	1 1/2"	1"
42	1 1/2"	1"

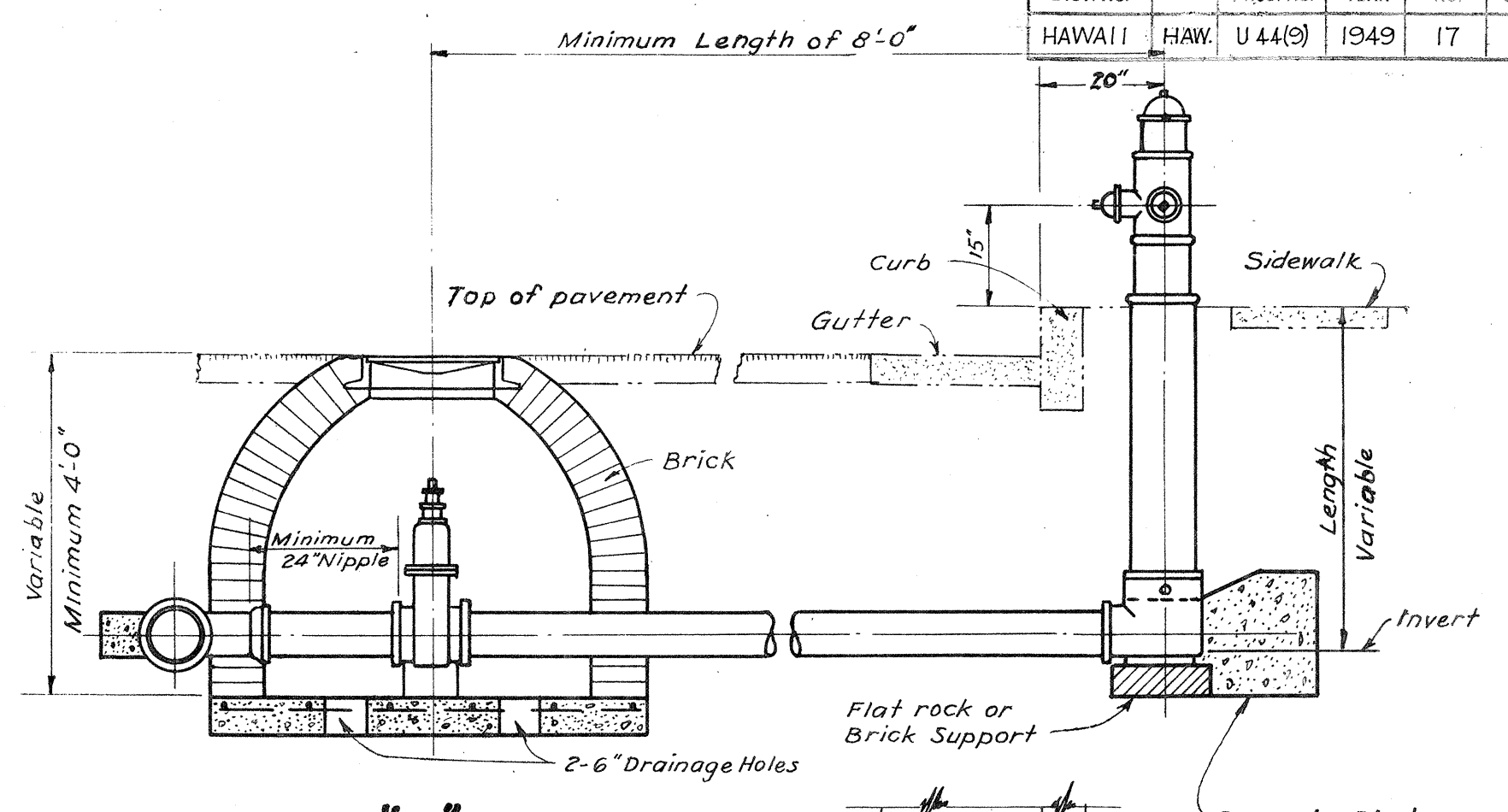
DETAIL OF RUNG
Scale: 1/2" = 1'-0"

SCHEDULE OF FITTINGS

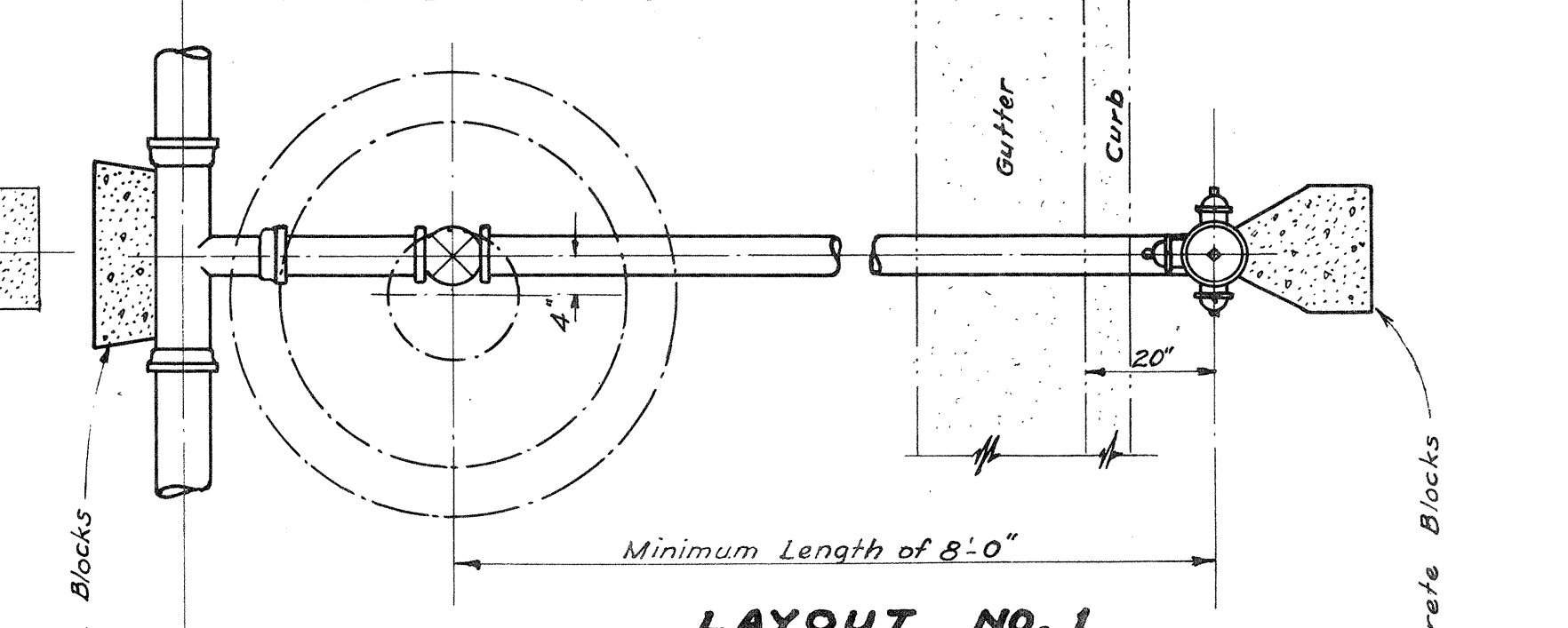
1-	Corporation Cock
1-	Union
3-	Street Elbows
1-	90° Elbow
1-	Stop Cock
1-	Tee
2-	Plugs
1-	Nipple



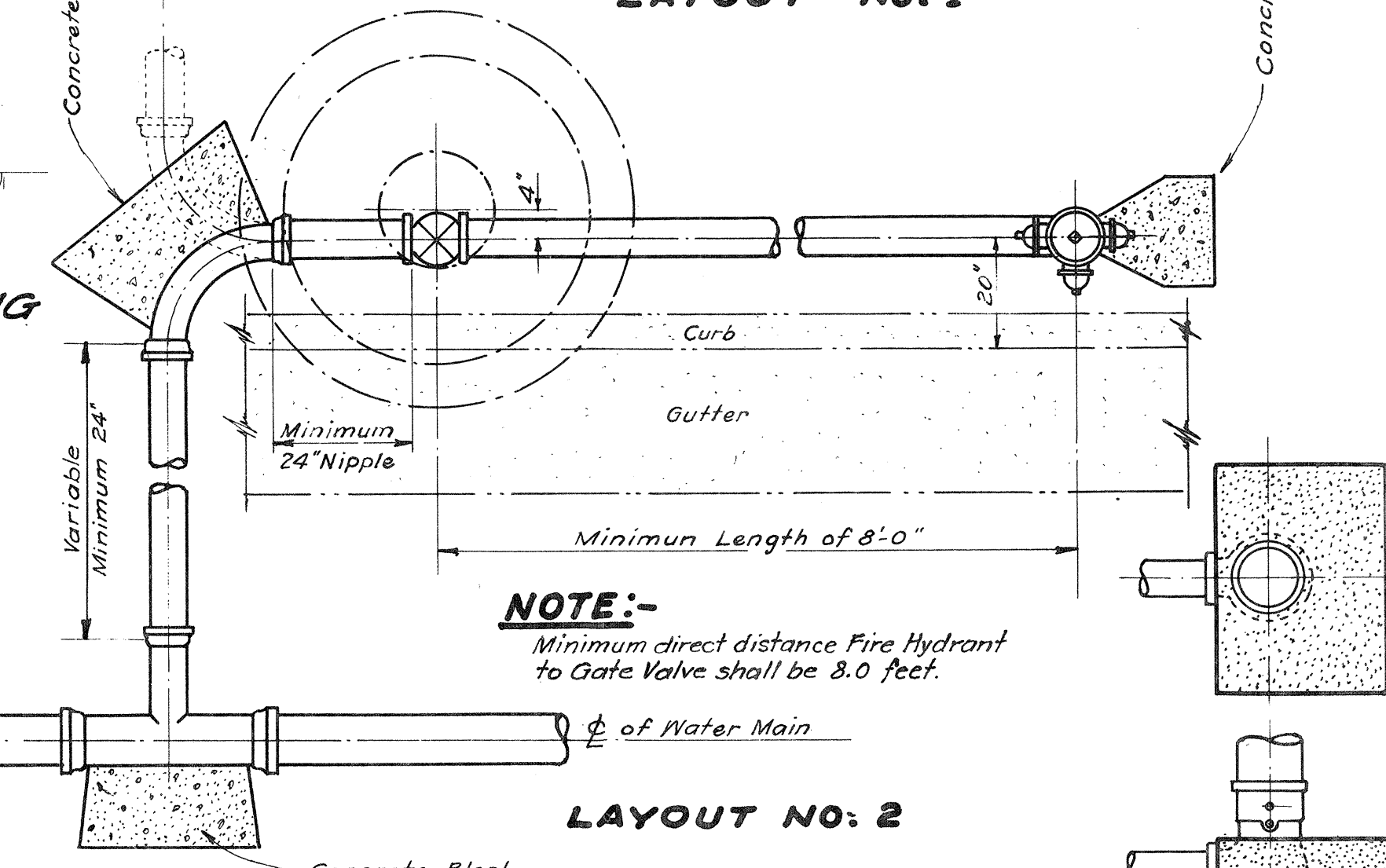
DETAIL OF CURBING AT HYDRANT WHERE REQUIRED



TYPE "C" MANHOLE



LAYOUT NO. 1



LAYOUT NO. 2

NOTE:-
Minimum direct distance Fire Hydrant to Gate Valve shall be 8.0 feet.

CONCRETE BLOCK FOR MATHEWS HYDRANT ONLY

STANDARD FIRE HYDRANT LAYOUT
Scale: 1/2" = 1'-0"

NOTE: These details were prepared in the office of the Board of Water Supply, City & County of Honolulu.

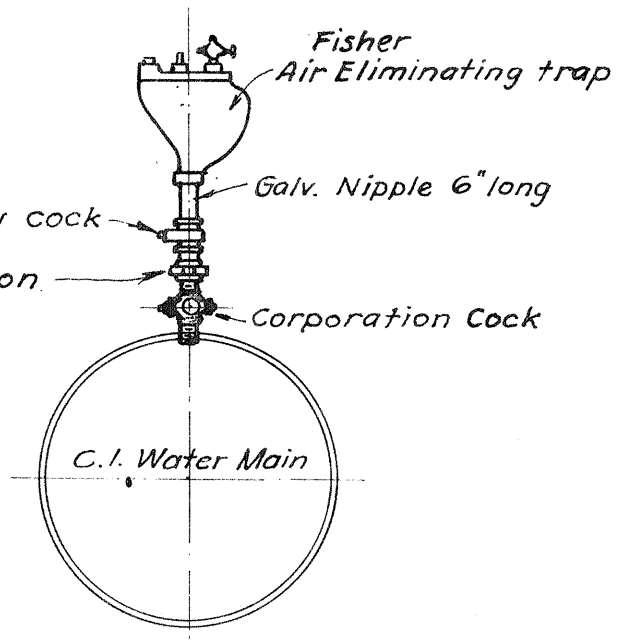
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BOARD OF WATER SUPPLY
STANDARD DETAILS
HONOLULU — PEARL HARBOR ROAD
ALA MOANA BRIDGE TO KALAKAUA AVE.
PROJECT NO. U 44 (9)
SCALE: AS NOTED
NOVEMBER 1949

SHEET No. 13 OF 13 SHEETS

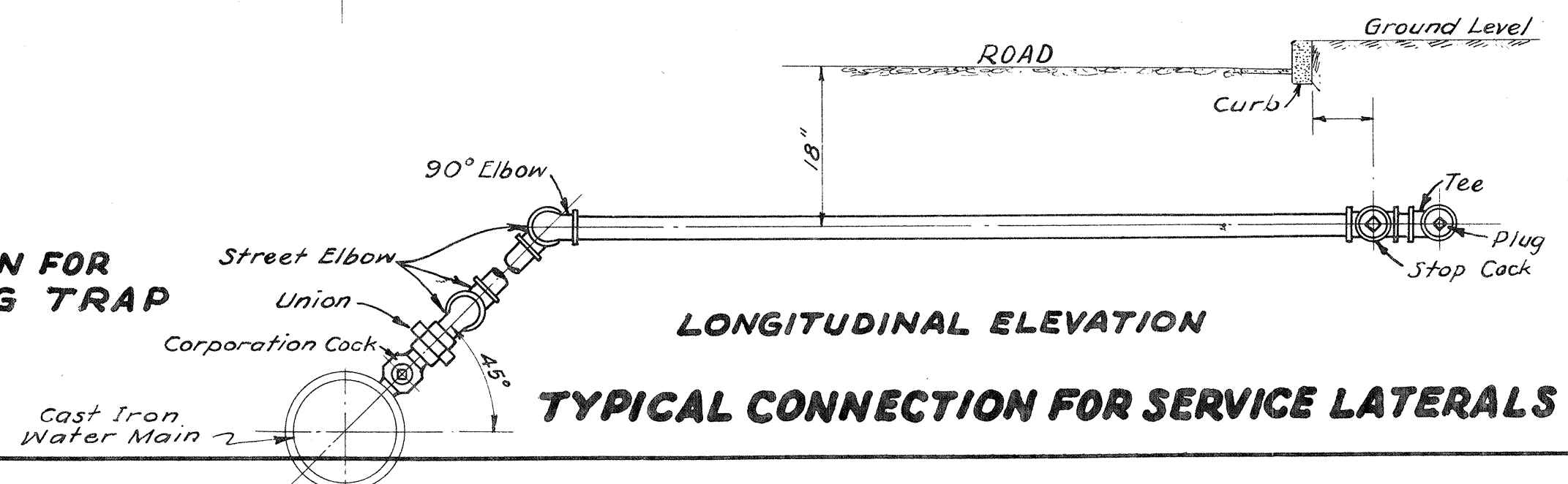
5420.17

NOTE:
All valves 16" and larger without Spur or Bevel Gears to be installed in Type "A" Manholes for Spur-Geared Gate Valves.

DETAIL OF CONNECTION FOR FISHER AIR ELIMINATING TRAP



LONGITUDINAL ELEVATION



TYPICAL CONNECTION FOR SERVICE LATERALS