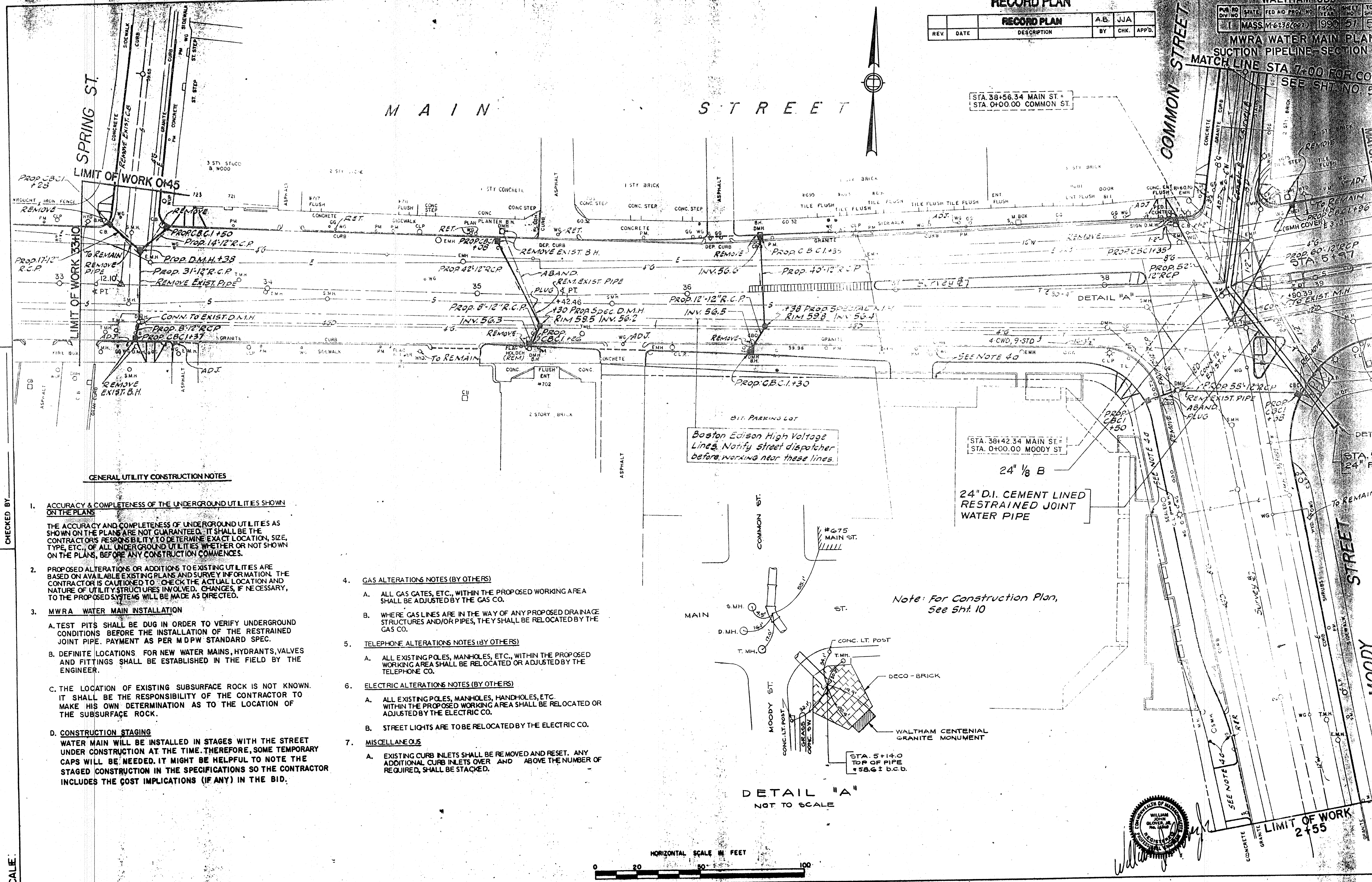


**RECORD PLAN**

REV.	DATE	DESCRIPTION	BY	CHK.	APP'D.
			A.B.	JJA	

PLAN NO.	DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
MASS	M-6238(22)			1990	57	58

WALTHAM-CBD  
 MWRA WATER MAIN PLAN  
 SUCTION PIPELINE - SECTION I  
 MATCH LINE STA 7+00 FOR CON  
 SEE SHIT NO 52



STA 38+56.34 MAIN ST =  
 STA. 0+00.00 COMMON ST.

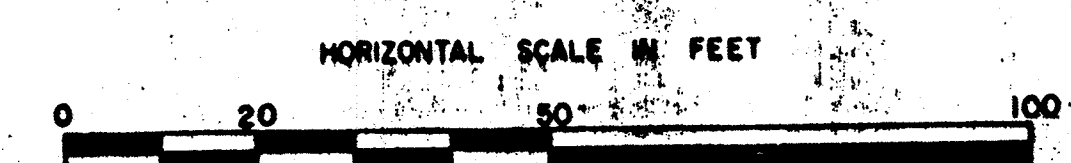
STA. 38+42.34 MAIN ST =  
 STA. 0+00.00 MOODY ST

Boston Edison High Voltage  
 Lines. Notify street dispatcher  
 before working near these lines.

24" 1/8 B  
 24" D.I. CEMENT LINED  
 RESTRAINED JOINT  
 WATER PIPE

Note: For Construction Plan,  
 See Shit 10

DETAIL "A"  
 NOT TO SCALE

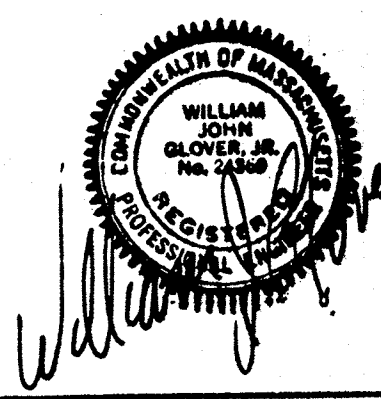


**GENERAL UTILITY CONSTRUCTION NOTES**

- ACCURACY & COMPLETENESS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS**  
 THE ACCURACY AND COMPLETENESS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXACT LOCATION, SIZE, TYPE, ETC., OF ALL UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE PLANS, BEFORE ANY CONSTRUCTION COMMENCES.
- PROPOSED ALTERATIONS OR ADDITIONS TO EXISTING UTILITIES ARE BASED ON AVAILABLE EXISTING PLANS AND SURVEY INFORMATION. THE CONTRACTOR IS CAUTIONED TO CHECK THE ACTUAL LOCATION AND NATURE OF UTILITY STRUCTURES INVOLVED. CHANGES, IF NECESSARY, TO THE PROPOSED SYSTEMS WILL BE MADE AS DIRECTED.**
- MWRA WATER MAIN INSTALLATION**
  - TEST PITS SHALL BE DUG IN ORDER TO VERIFY UNDERGROUND CONDITIONS BEFORE THE INSTALLATION OF THE RESTRAINED JOINT PIPE. PAYMENT AS PER MDPW STANDARD SPEC.
  - DEFINITE LOCATIONS FOR NEW WATER MAINS, HYDRANTS, VALVES AND FITTINGS SHALL BE ESTABLISHED IN THE FIELD BY THE ENGINEER.
  - THE LOCATION OF EXISTING SUBSURFACE ROCK IS NOT KNOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN DETERMINATION AS TO THE LOCATION OF THE SUBSURFACE ROCK.
  - CONSTRUCTION STAGING**  
 WATER MAIN WILL BE INSTALLED IN STAGES WITH THE STREET UNDER CONSTRUCTION AT THE TIME. THEREFORE, SOME TEMPORARY CAPS WILL BE NEEDED. IT MIGHT BE HELPFUL TO NOTE THE STAGED CONSTRUCTION IN THE SPECIFICATIONS SO THE CONTRACTOR INCLUDES THE COST IMPLICATIONS (IF ANY) IN THE BID.
- GAS ALTERATIONS NOTES (BY OTHERS)**
  - ALL GAS GATES, ETC., WITHIN THE PROPOSED WORKING AREA SHALL BE ADJUSTED BY THE GAS CO.
  - WHERE GAS LINES ARE IN THE WAY OF ANY PROPOSED DRAINAGE STRUCTURES AND/OR PIPES, THEY SHALL BE RELOCATED BY THE GAS CO.
- TELEPHONE ALTERATIONS NOTES (BY OTHERS)**
  - ALL EXISTING POLES, MANHOLES, ETC., WITHIN THE PROPOSED WORKING AREA SHALL BE RELOCATED OR ADJUSTED BY THE TELEPHONE CO.
- ELECTRIC ALTERATIONS NOTES (BY OTHERS)**
  - ALL EXISTING POLES, MANHOLES, HANDHOLES, ETC. WITHIN THE PROPOSED WORKING AREA SHALL BE RELOCATED OR ADJUSTED BY THE ELECTRIC CO.
  - STREET LIGHTS ARE TO BE RELOCATED BY THE ELECTRIC CO.
- MISCELLANEOUS**
  - EXISTING CURB INLETS SHALL BE REMOVED AND RESET. ANY ADDITIONAL CURB INLETS OVER AND ABOVE THE NUMBER OF REQUIRED, SHALL BE STACKED.

DESIGNED BY \_\_\_\_\_ GEOMETRICS  
 DRAWN BY \_\_\_\_\_ DRAINAGE  
 CHECKED BY \_\_\_\_\_

SCALE:





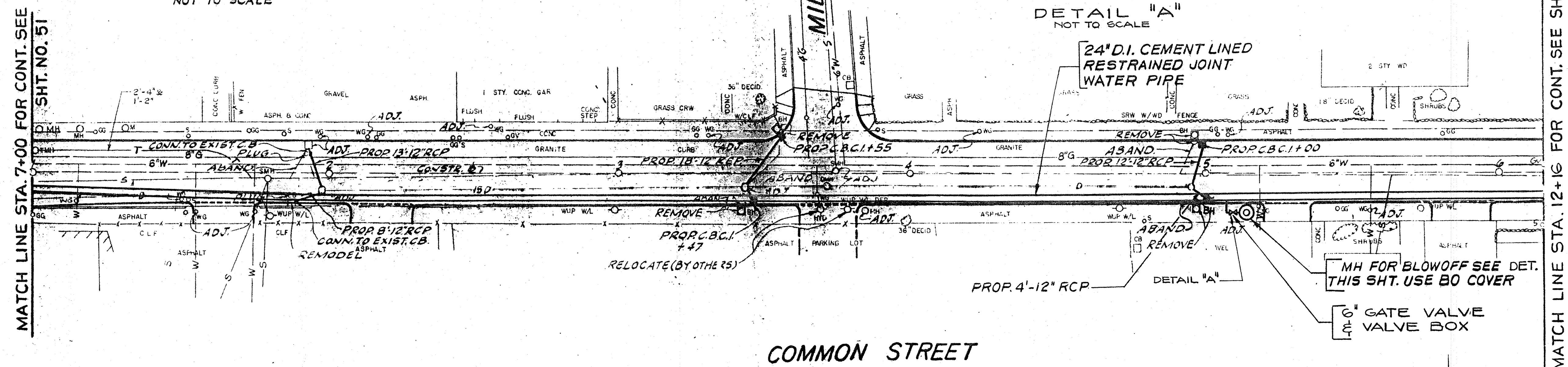
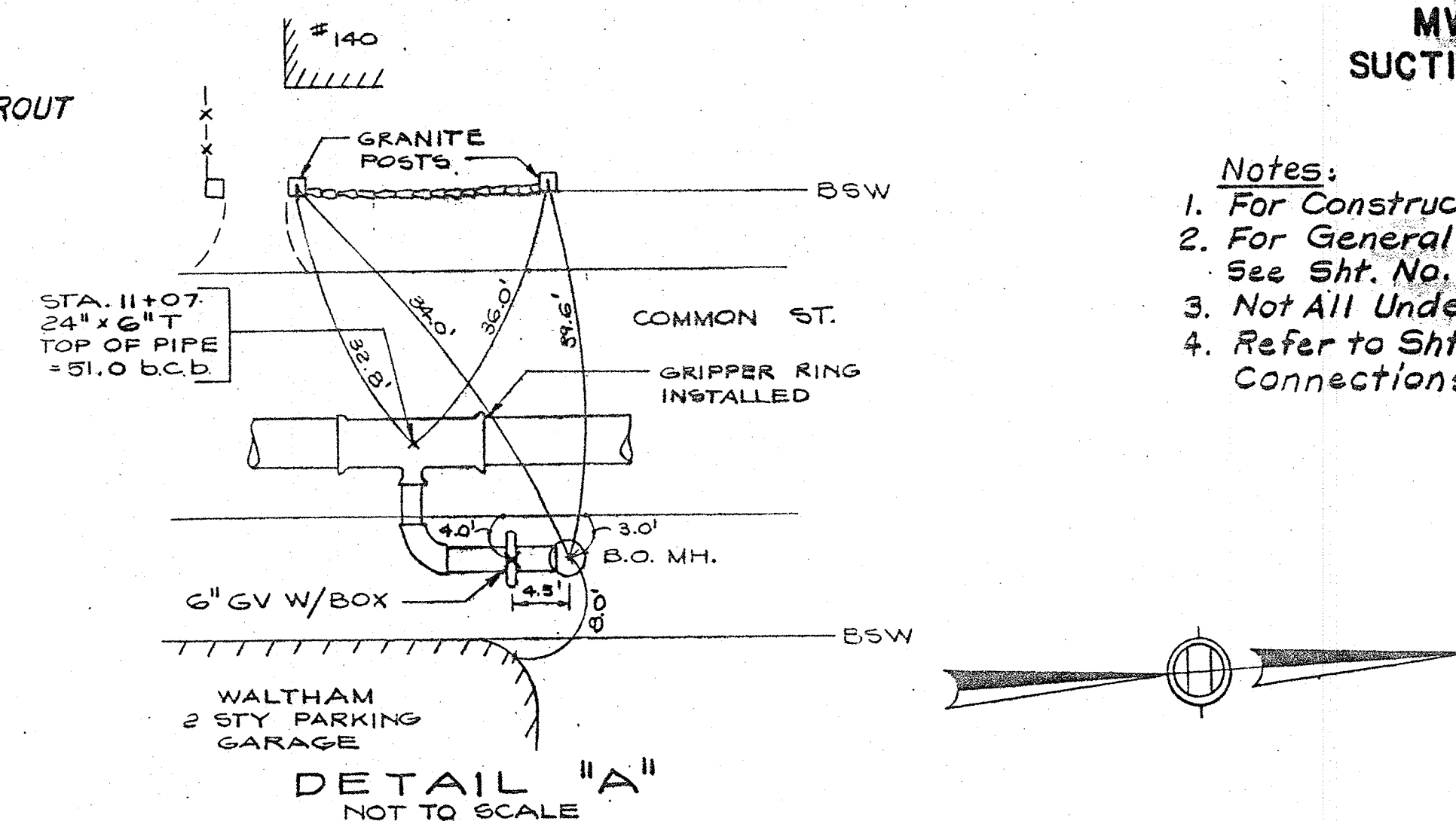
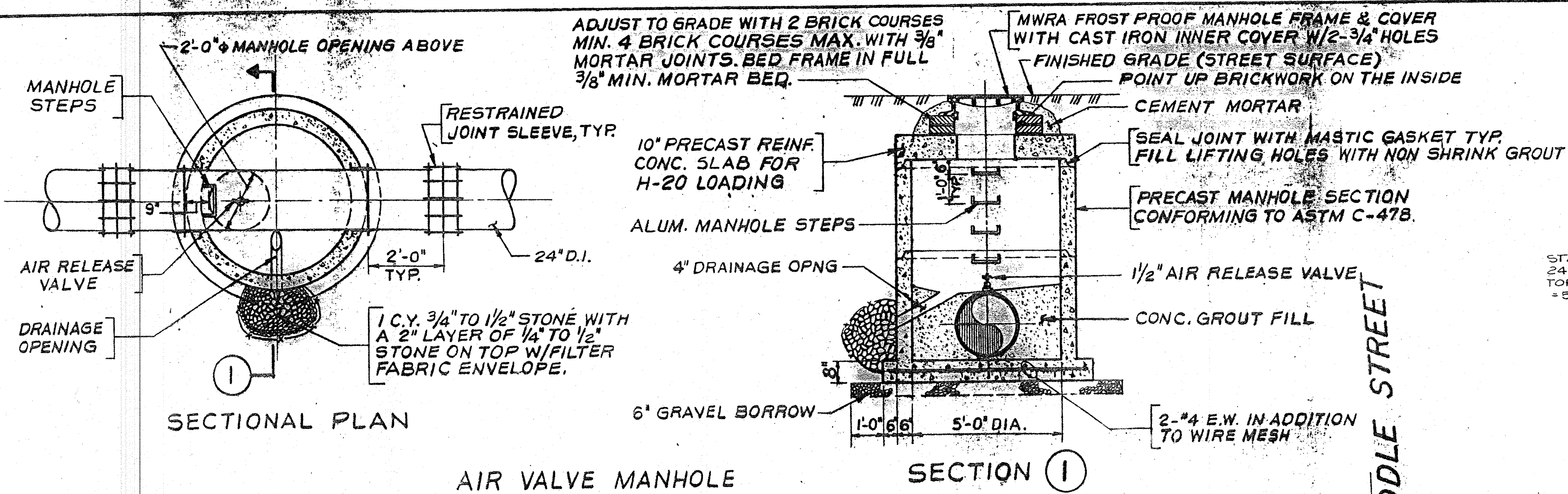
**RECORD PLAN**

REV.	DATE	DESCRIPTION	BY	CHK	APP'D.
1	MASS	11-6-78 (001)			

PUB. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	MASS	11-6-78 (001)	1980	52	5

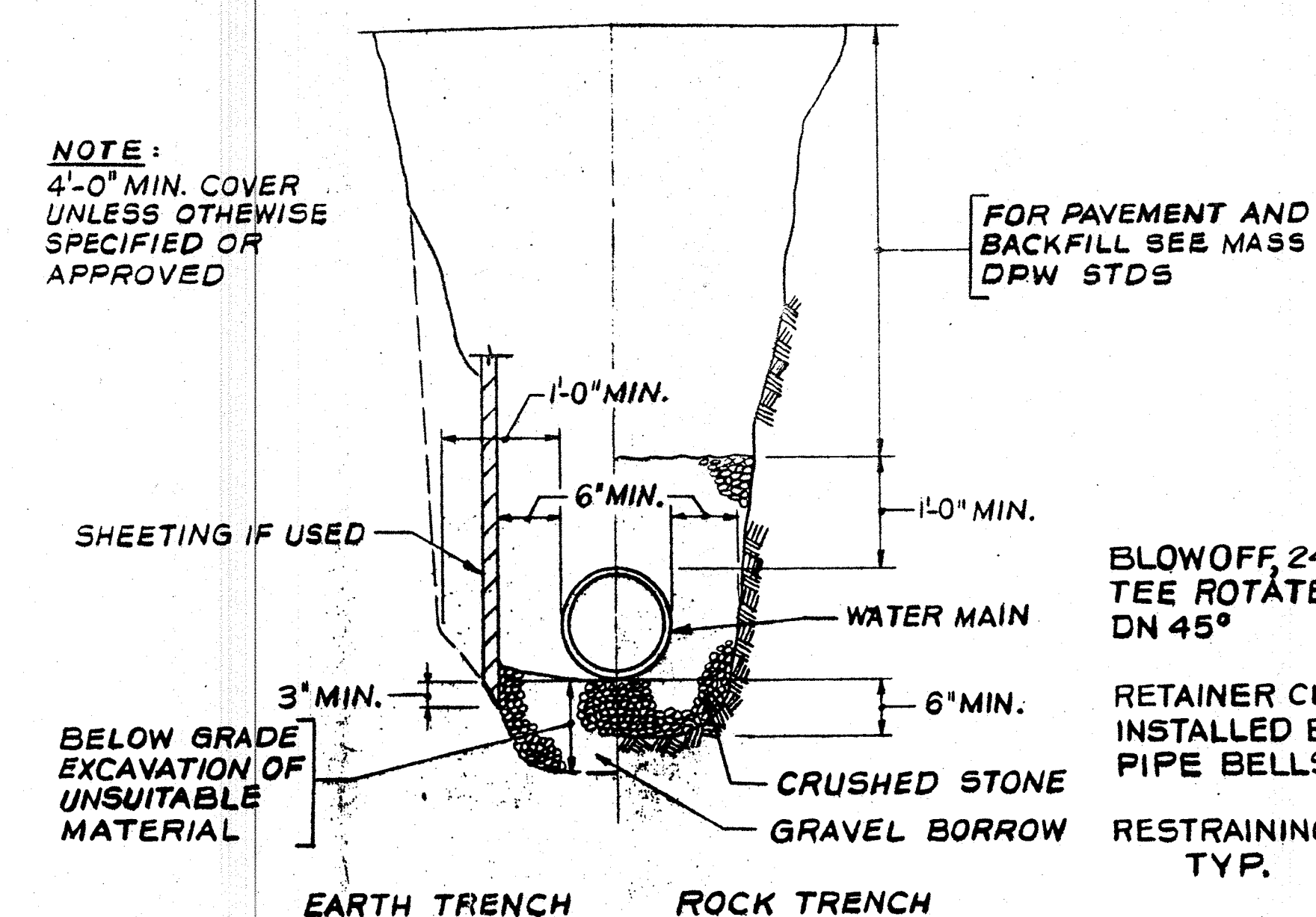
**WALTHAM - CBD  
MWRA WATER MAIN PLAN  
SUCTION PIPELINE - SECTION 1**

- Notes:**
1. For Construction Plan, See Sht. No. 15.
  2. For General Utility Construction Notes, See Sht. No. 27.
  3. Not All Underground Services Are Shown.
  4. Refer to Sht. 31 For Catch Basin Connections to Relocated Drain.



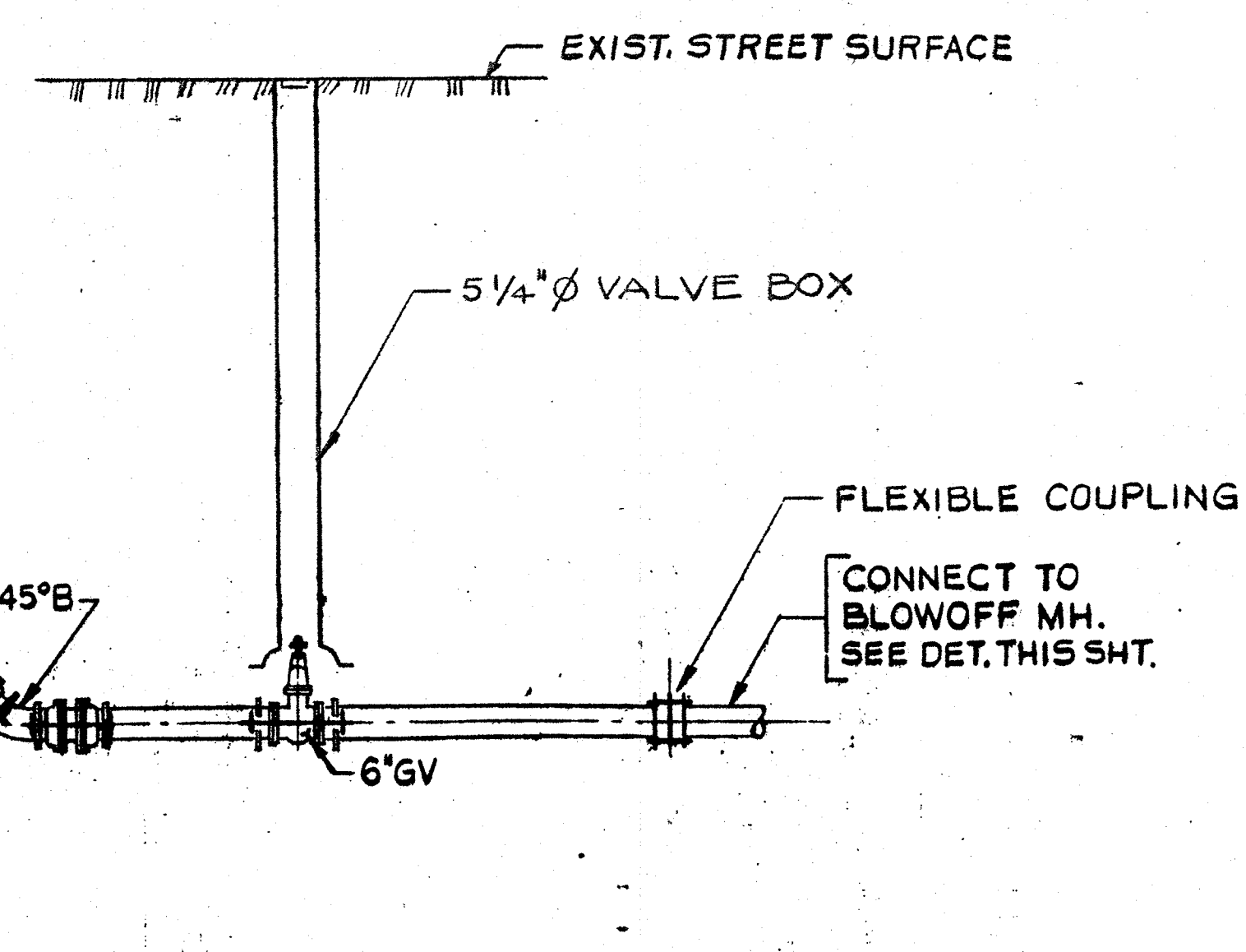
DESIGNED BY  
DRAWN BY  
CHECKED BY

**NOTE:**  
4'-0\"/>

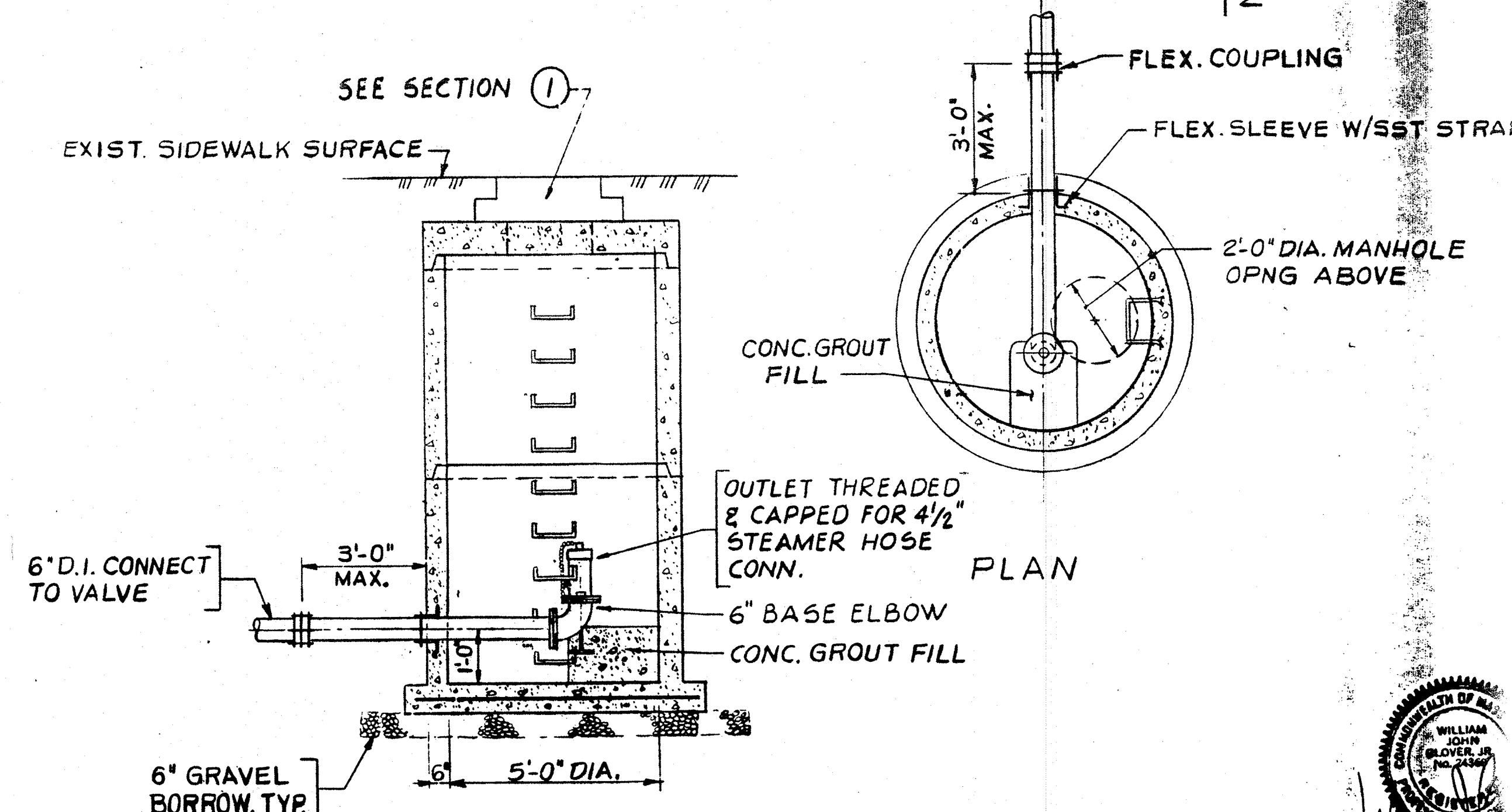


**NOTE:**  
REFER TO SPECS FOR MATERIAL REQUIREMENTS

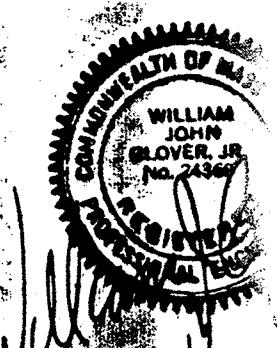
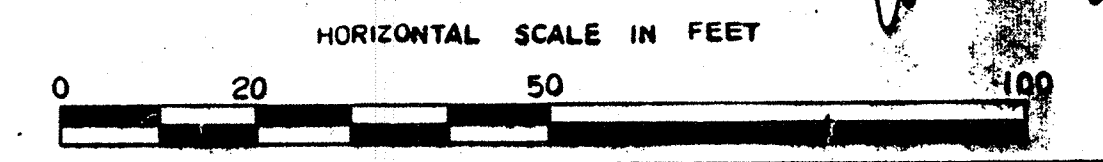
**TRENCH SECTIONS  
NOT TO SCALE**



**ILLUSTRATIVE SECTION  
VALVE MANHOLE  
NOT TO SCALE**



**ILLUSTRATIVE SECTION  
BLOWOFF MANHOLE  
NOT TO SCALE**



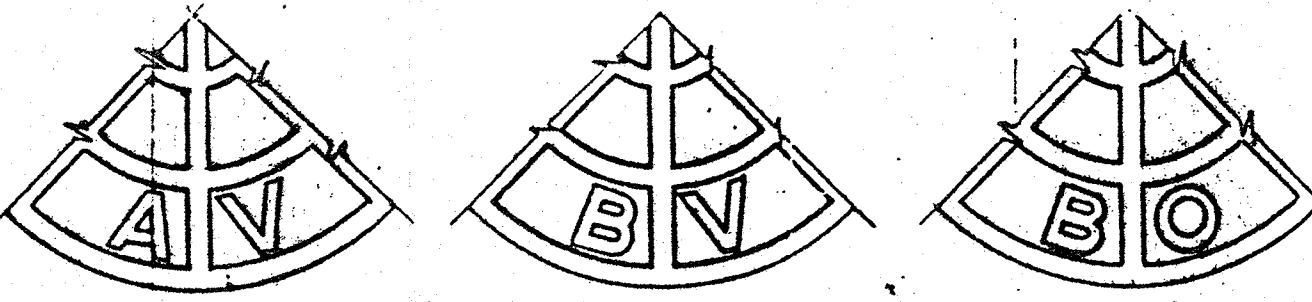
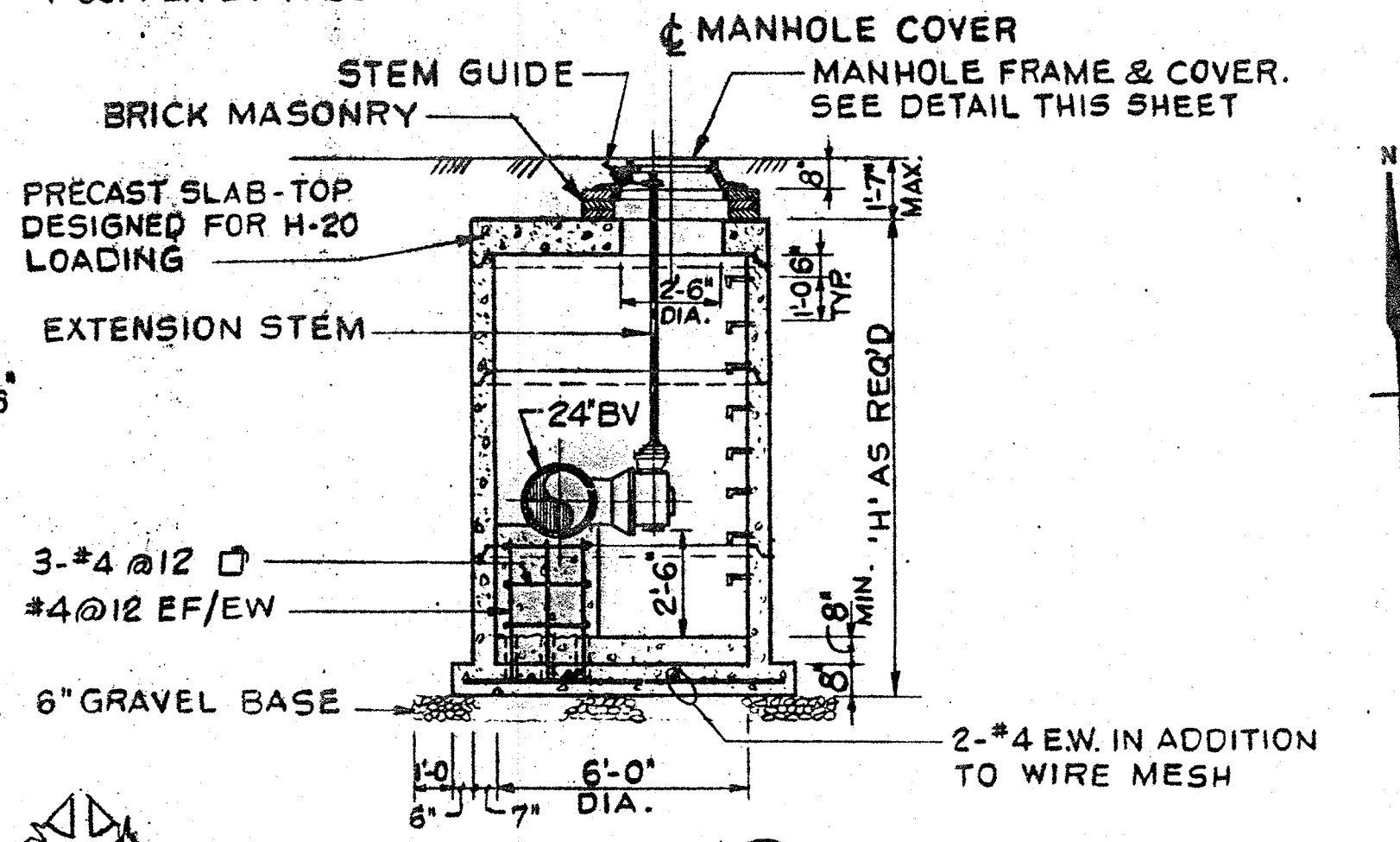
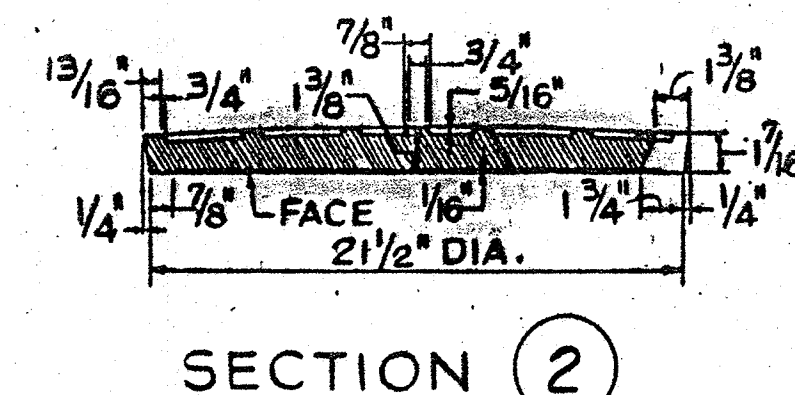
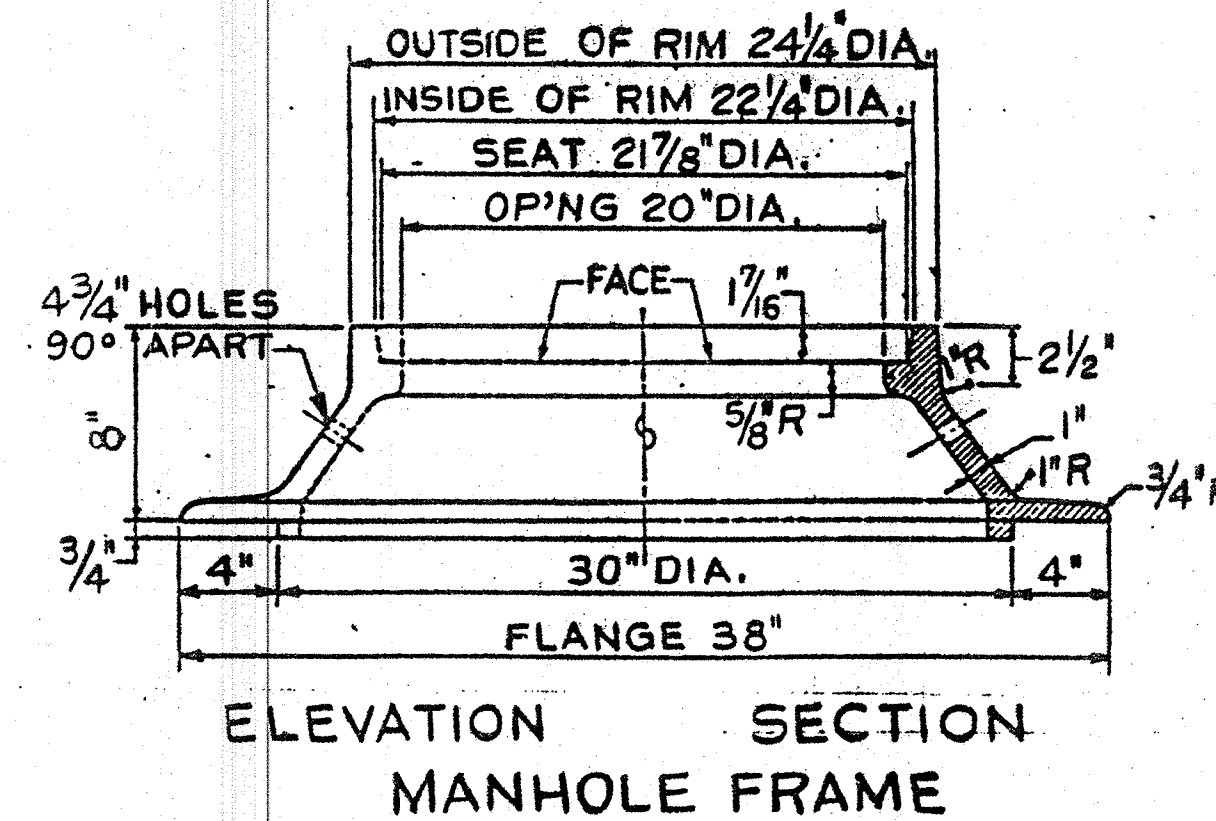
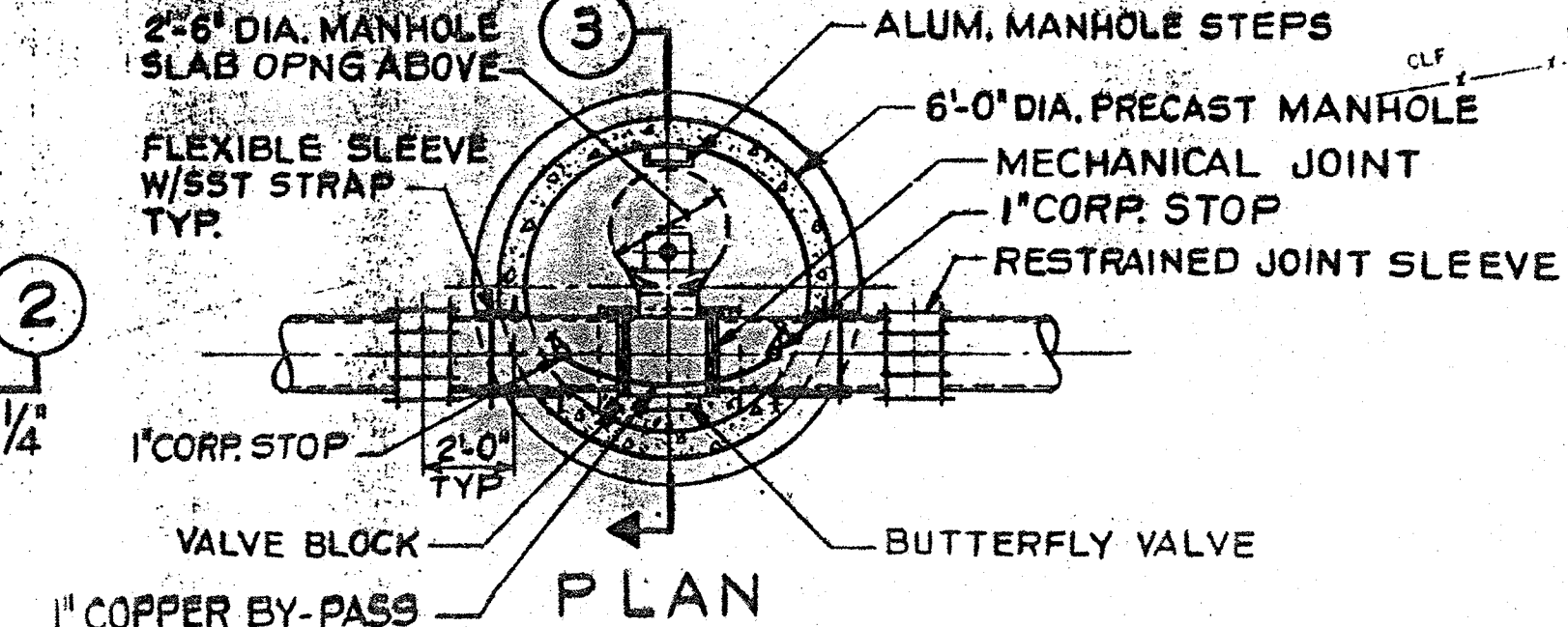
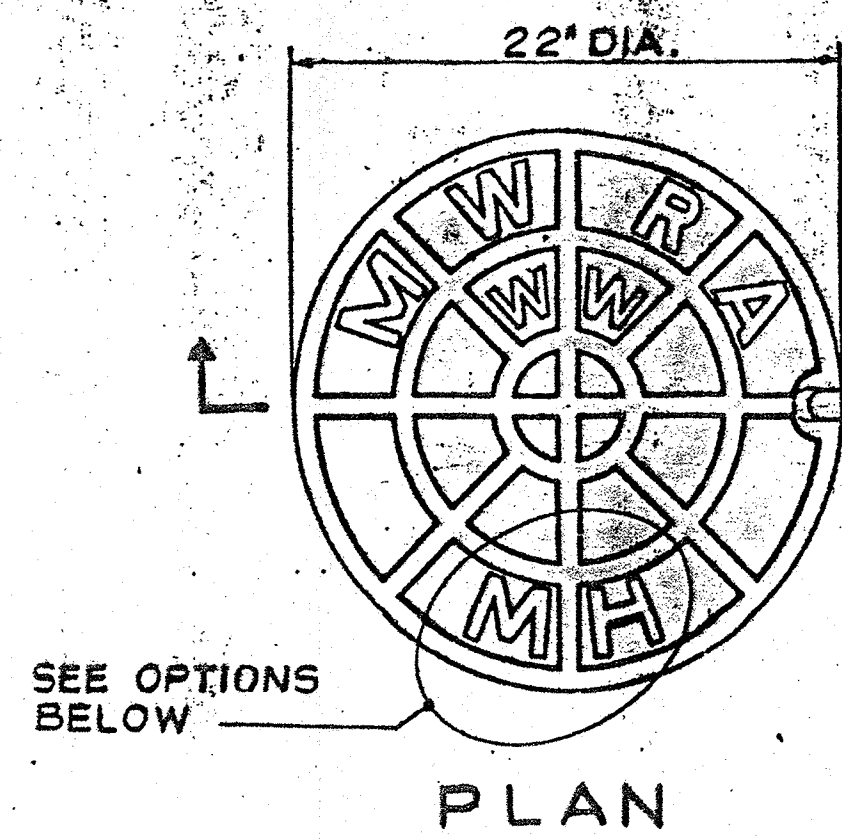
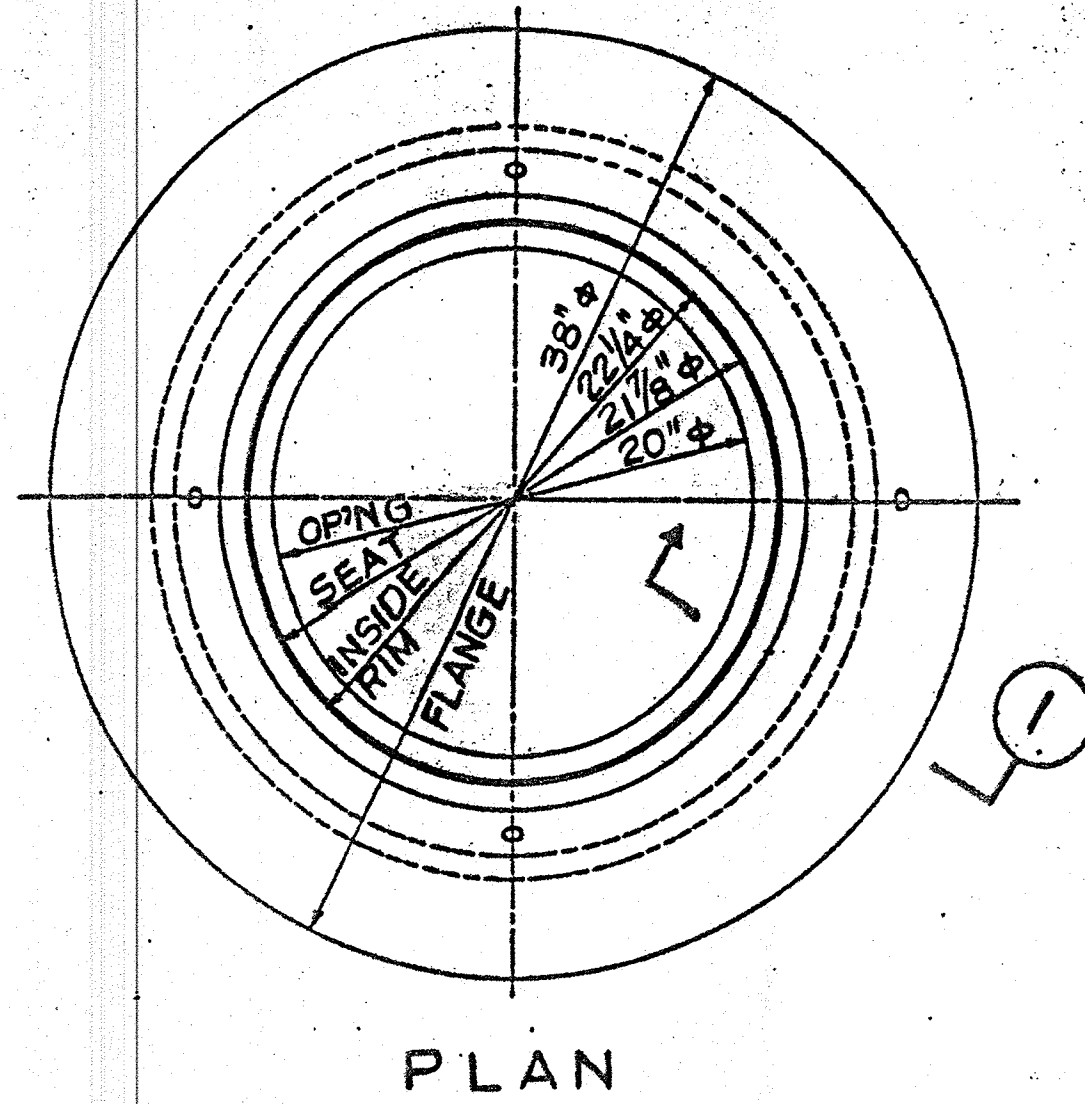


**RECORD PLAN**

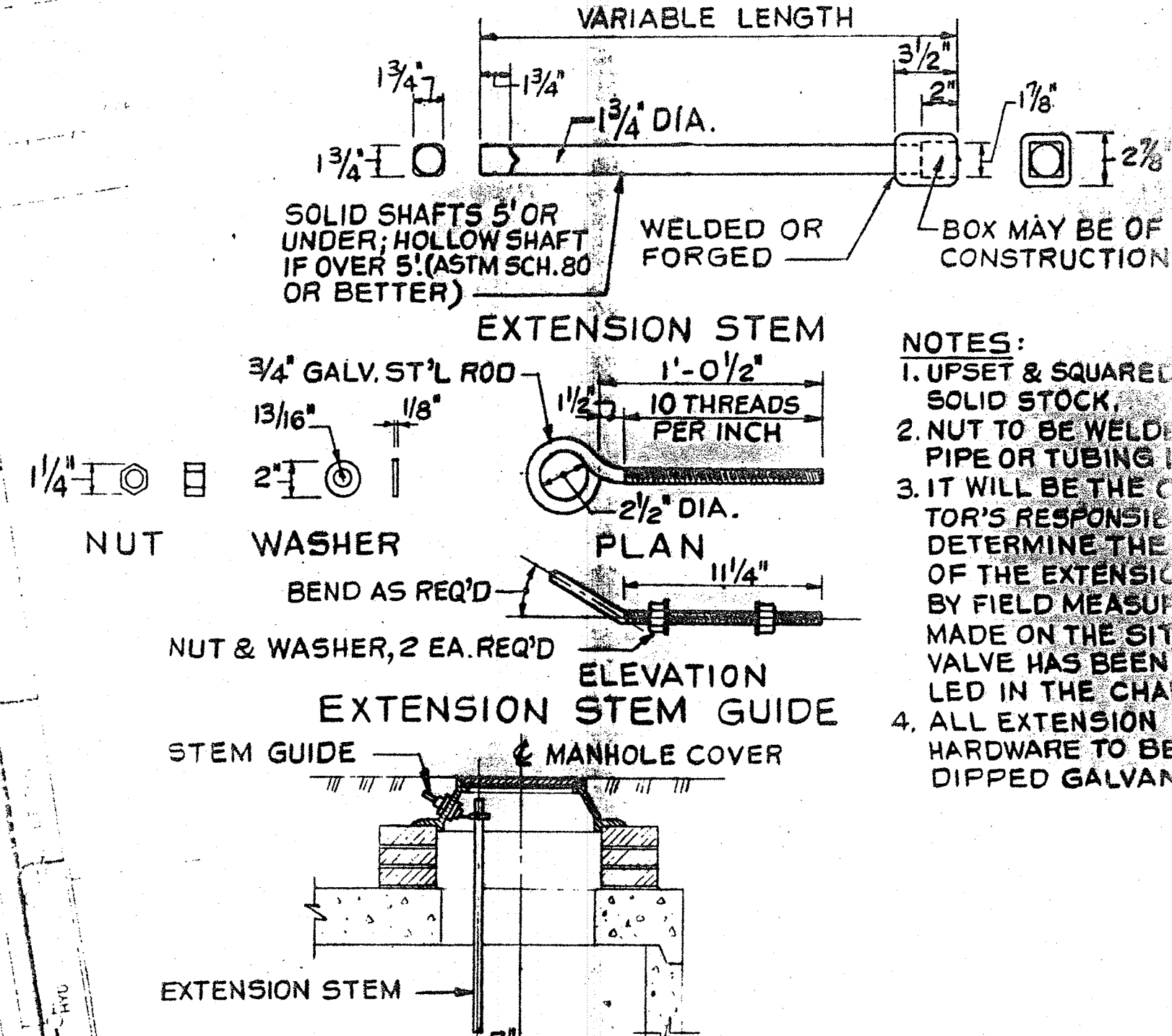
REV.	DATE	DESCRIPTION	BY	CHK.	APPD.	PUB. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.
1			A.B. JJA.				MASS.	4-6138(001)	1990	53

WALTHAM-CBD

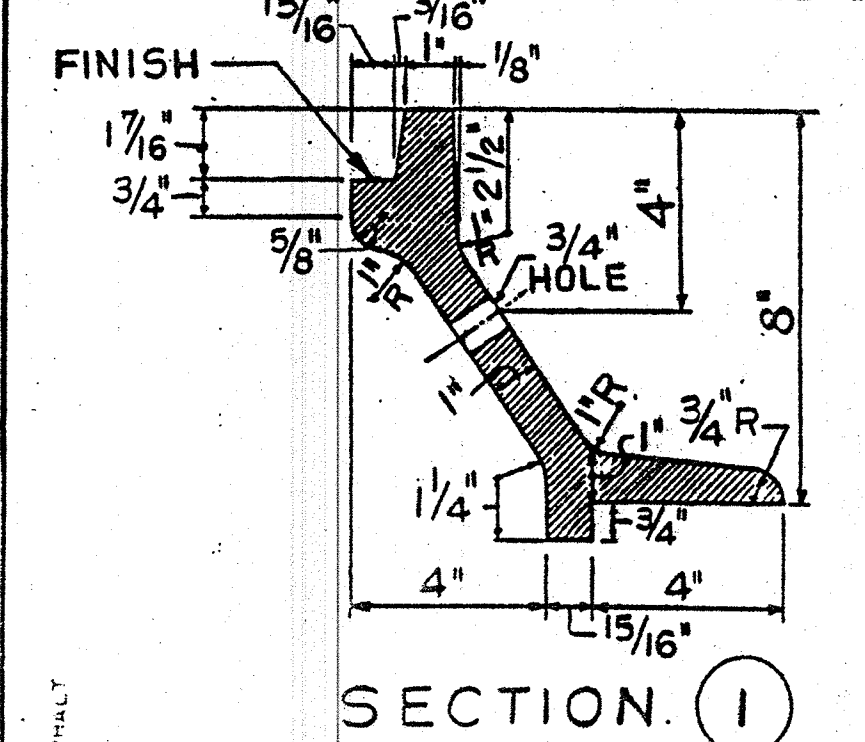
MWRA WATER MAIN PLAN  
SUCTION PIPELINE-SECTION  
DISCHARGE PIPELINE-SECTION



MANHOLE FOR 24" BUTTERFLY VALVE  
NOT TO SCALE



- NOTES:
1. OFFSET & SQUARED SOLID STOCK.
  2. NUT TO BE WELDED PIPE OR TUBING.
  3. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE FIELD MEASUREMENT OF THE EXTENSION VALVE HAS BEEN MADE ON THE SITE.
  4. ALL EXTENSION HARDWARE TO BE DIPPED GALVANIZED.

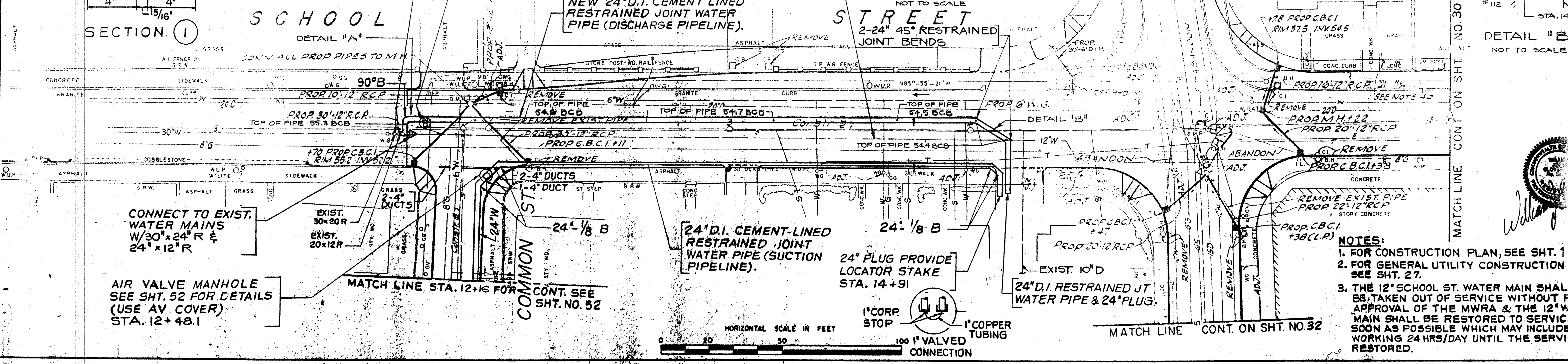


REMOVE EXIST. 30"x20"R AND 20"x12"R AND INSTALL NEW 30"x24"TEE

24" BY AND MANHOLE SEE DETAIL THIS SHT. (USE BV COVER). VALVE TO REMAIN CLOSED UNTIL FUTURE USE. EXIST. 12" W TO REMAIN (DO NOT DISTURB)

NEW 24" D.I. CEMENT LINED RESTRAINED JOINT WATER PIPE (DISCHARGE PIPELINE).

DETAIL "A" 2-24" 45° RESTRAINED JOINT BENDS



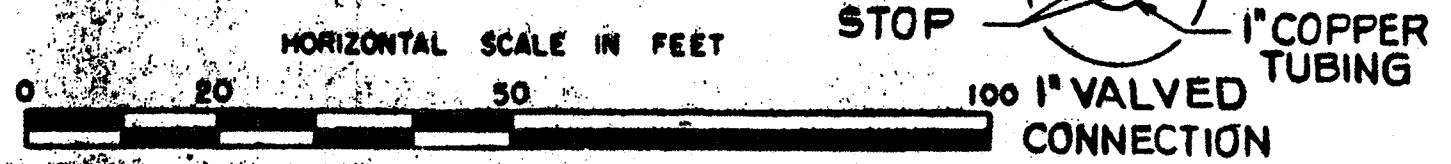
CONNECT TO EXIST. WATER MAINS W/30"x24"R & 24"x12"R

EXIST. 30x20R  
EXIST. 20x12R

24" D.I. CEMENT LINED RESTRAINED JOINT WATER PIPE (SUCTION PIPELINE).

24" PLUG PROVIDE LOCATOR STAKE STA. 14+91

24" D.I. RESTRAINED JT WATER PIPE & 24" PLUG.



- NOTES:
1. FOR CONSTRUCTION PLAN, SEE SHT. 1
  2. FOR GENERAL UTILITY CONSTRUCTION SEE SHT. 27.
  3. THE 12" SCHOOL ST. WATER MAIN SHALL BE TAKEN OUT OF SERVICE WITHOUT APPROVAL OF THE MWRA & THE 12" W. MAIN SHALL BE RESTORED TO SERVICE SOON AS POSSIBLE WHICH MAY INCLUDE WORKING 24 HRS/DAY UNTIL THE SERVICE RESTORED.

DESIGNED BY GEOMETRICS  
DRAWN BY  
CHECKED BY

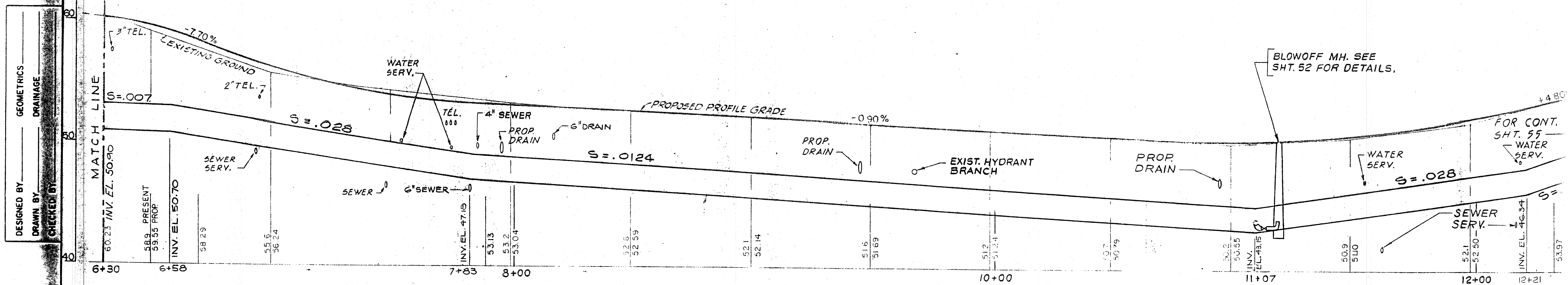
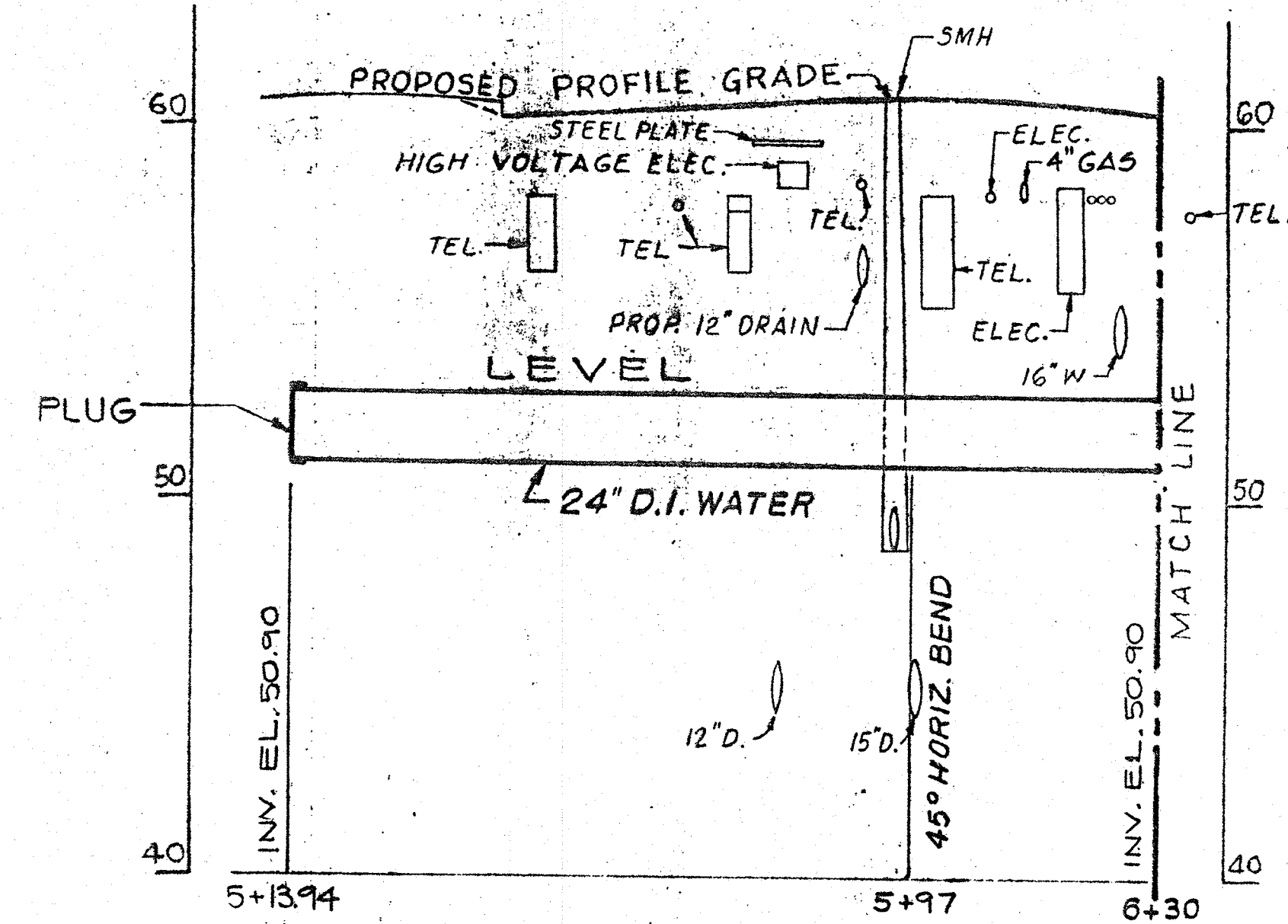




**RECORD PLAN**

RECORD PLAN		A.B.	JJA
REV.	DATE	BY	CHK. APP'D.

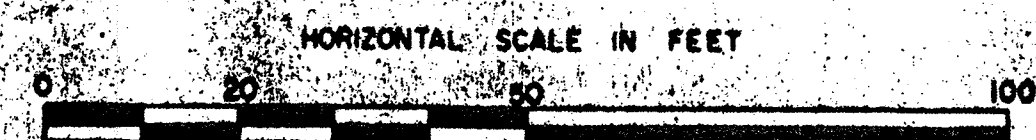
**WALTHAM**  
 PUB. RD. STATE FED. AID PROJ. NO. FIG. NO.  
 DIV. NO. MASS. M-6138(002) 159  
**MWRA WATER MAIN SUCTION PIPELINE**



DESIGNED BY \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 GEOMETRICS  
 DRAINAGE

COMMON STREET

- NOTES:  
 1. FOR BENCH MARK, SEE SHEET 11.  
 2. ELEVATIONS ARE MEAN SEA LEVEL (MSL) DATUM WHICH IS 5.65 FEET ABOVE BOSTON CITY BASE (BCB) EXAMPLE: 50.00 MSL = 55.65 BCB

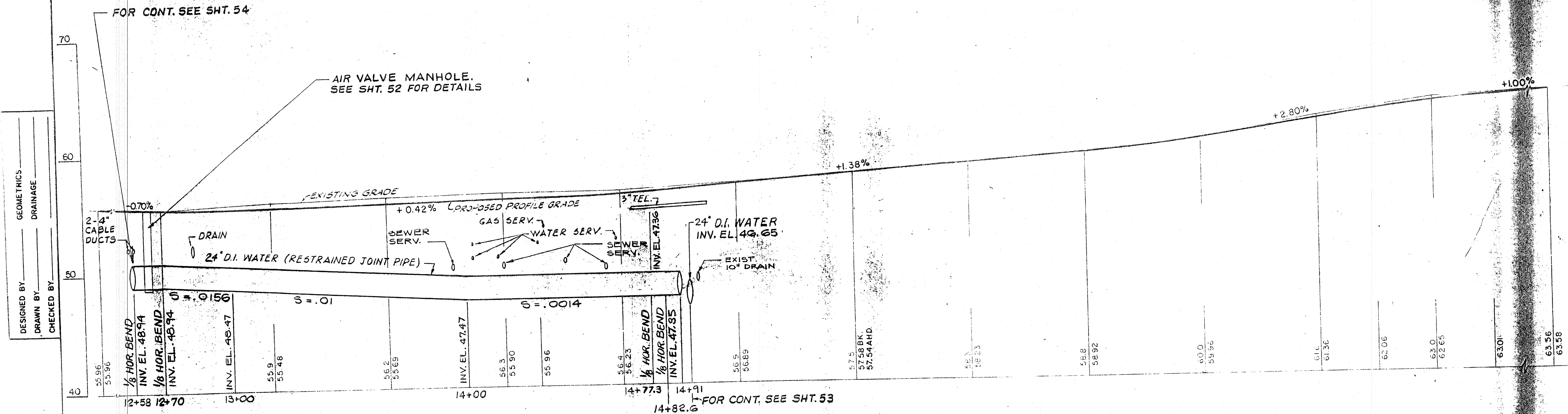


**RECORD PLAN**

REV.	DATE	DESCRIPTION	BY	CHK.	APP'D.

PUB. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	MASS.	W-6238(00)	1990	55	55

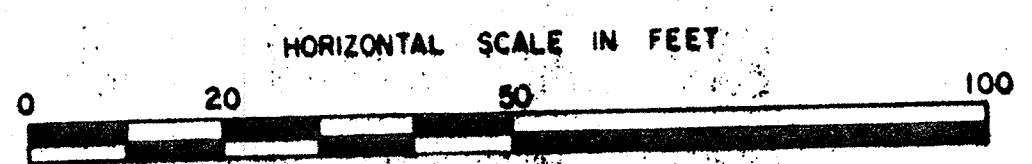
**WALTHAM-CBD**  
**MWRA WATER MAIN PROFILE**  
**SUCTION PIPELINE SECTION**  
**DISCHARGE PIPELINE SECTION**



DESIGNED BY \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

**SCHOOL STREET**

- NOTES:**
- FOR BENCH MARK, SEE SHEET II
  - ELEVATIONS ARE MEAN SEA LEVEL (MSL) DATUM WHICH IS 5.65 FEET ABOVE BOSTON CITY BASE (BCB)  
 EXAMPLE: 50.00 MSL = 55.65 BCB



SCALE:

FOR GRADING & CURB TIE, SEE SHT. NO. 24 & 25

