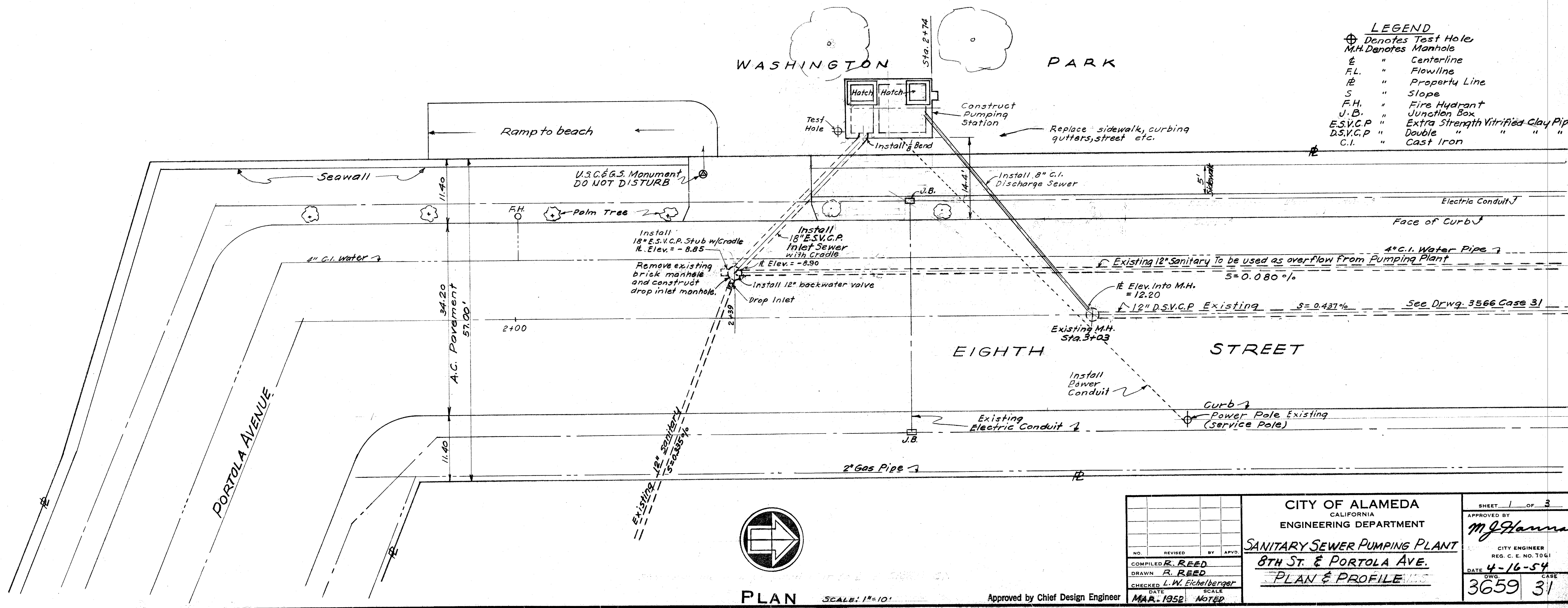
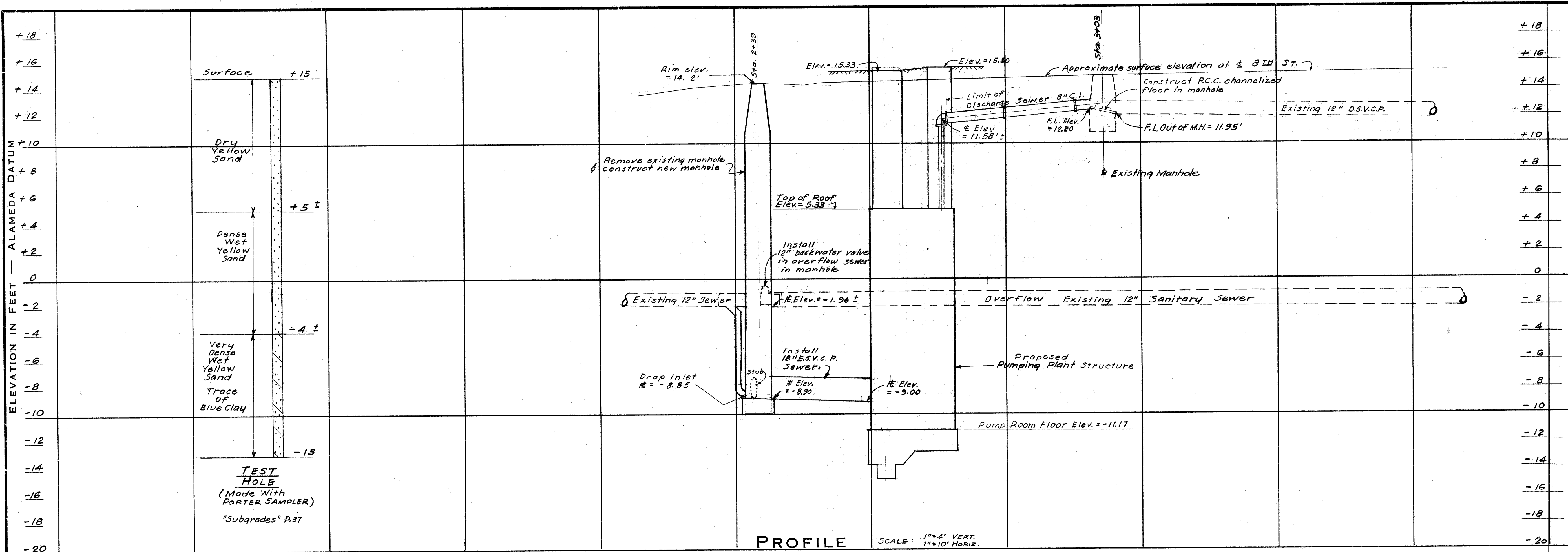
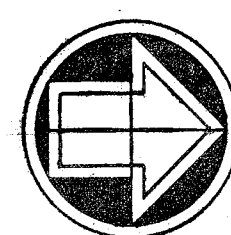


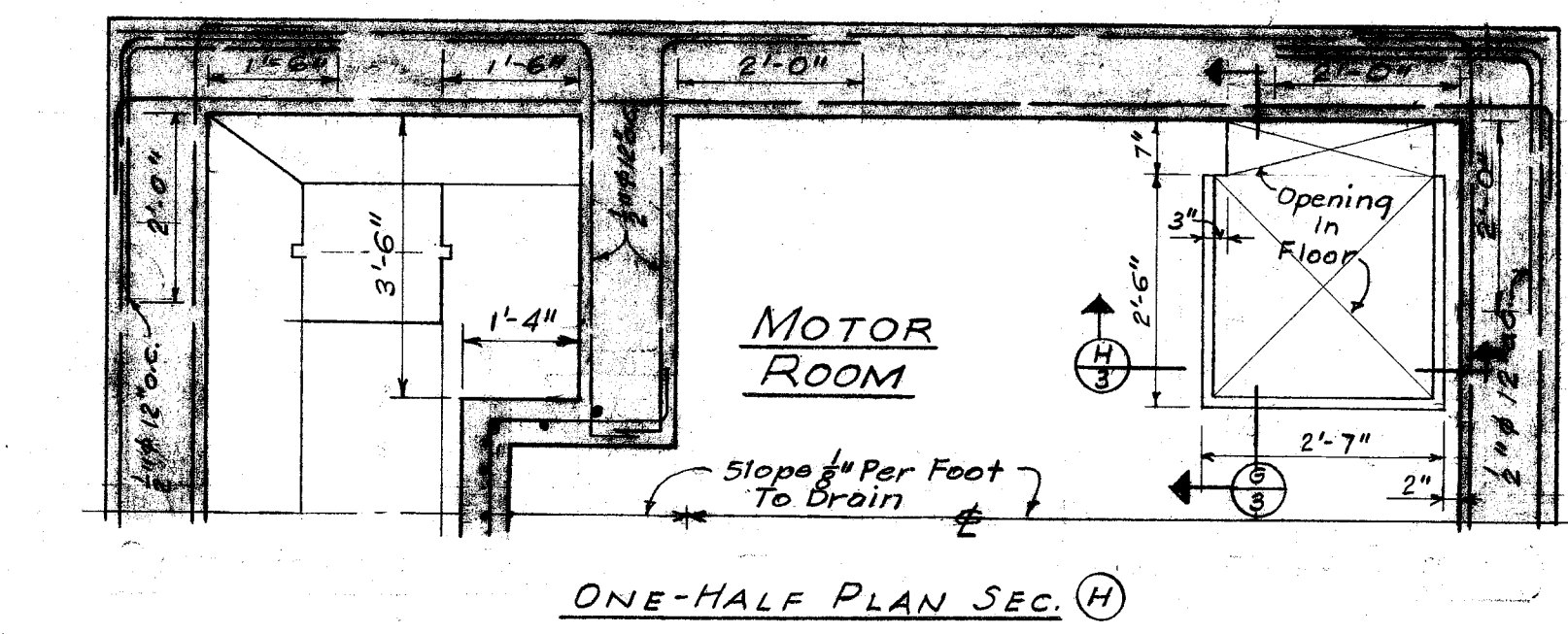
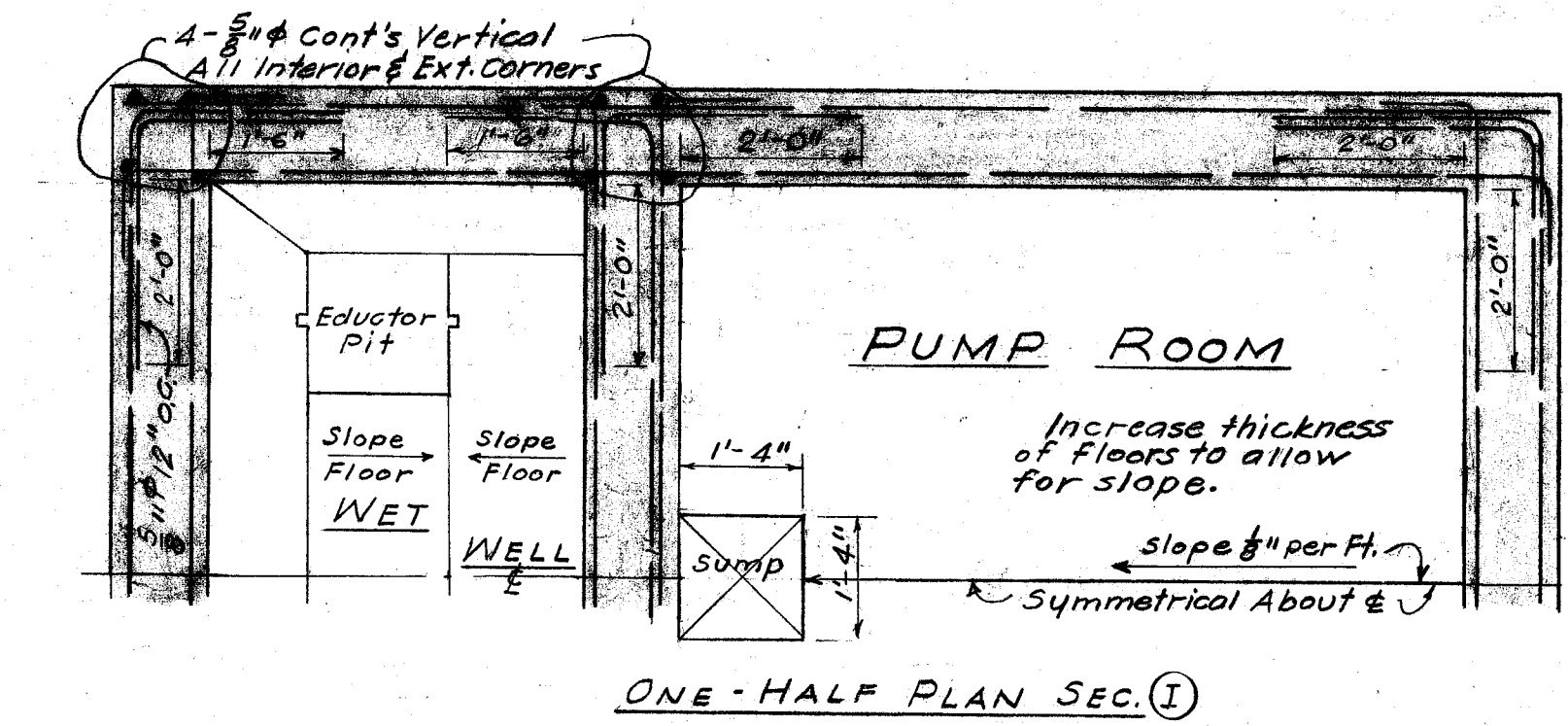
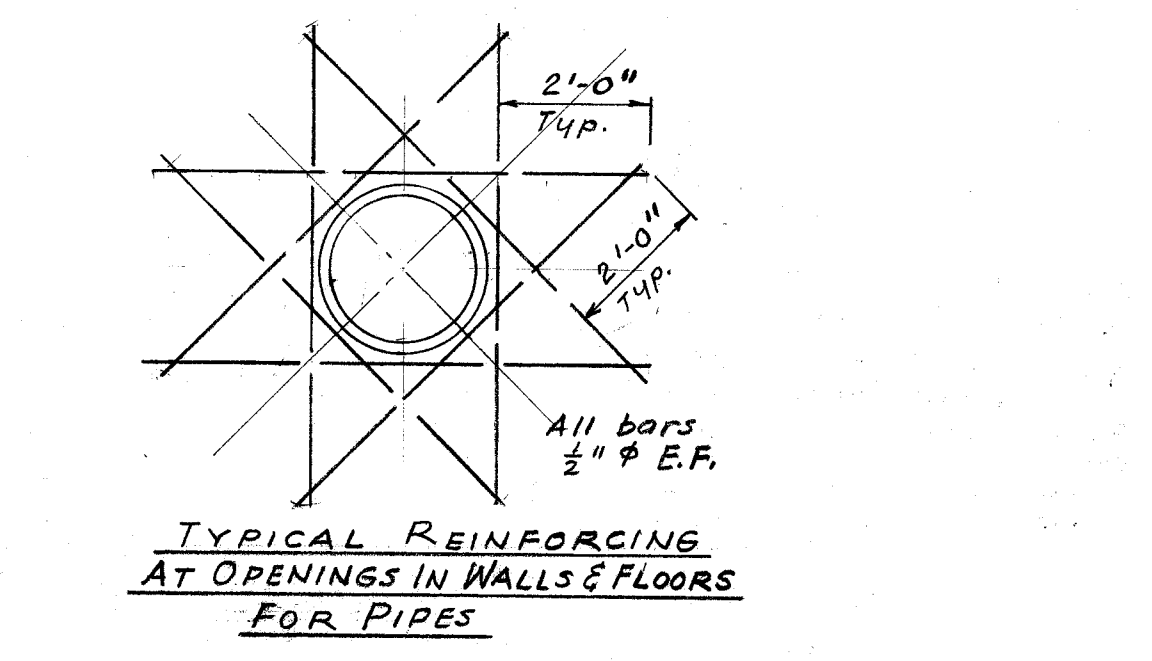
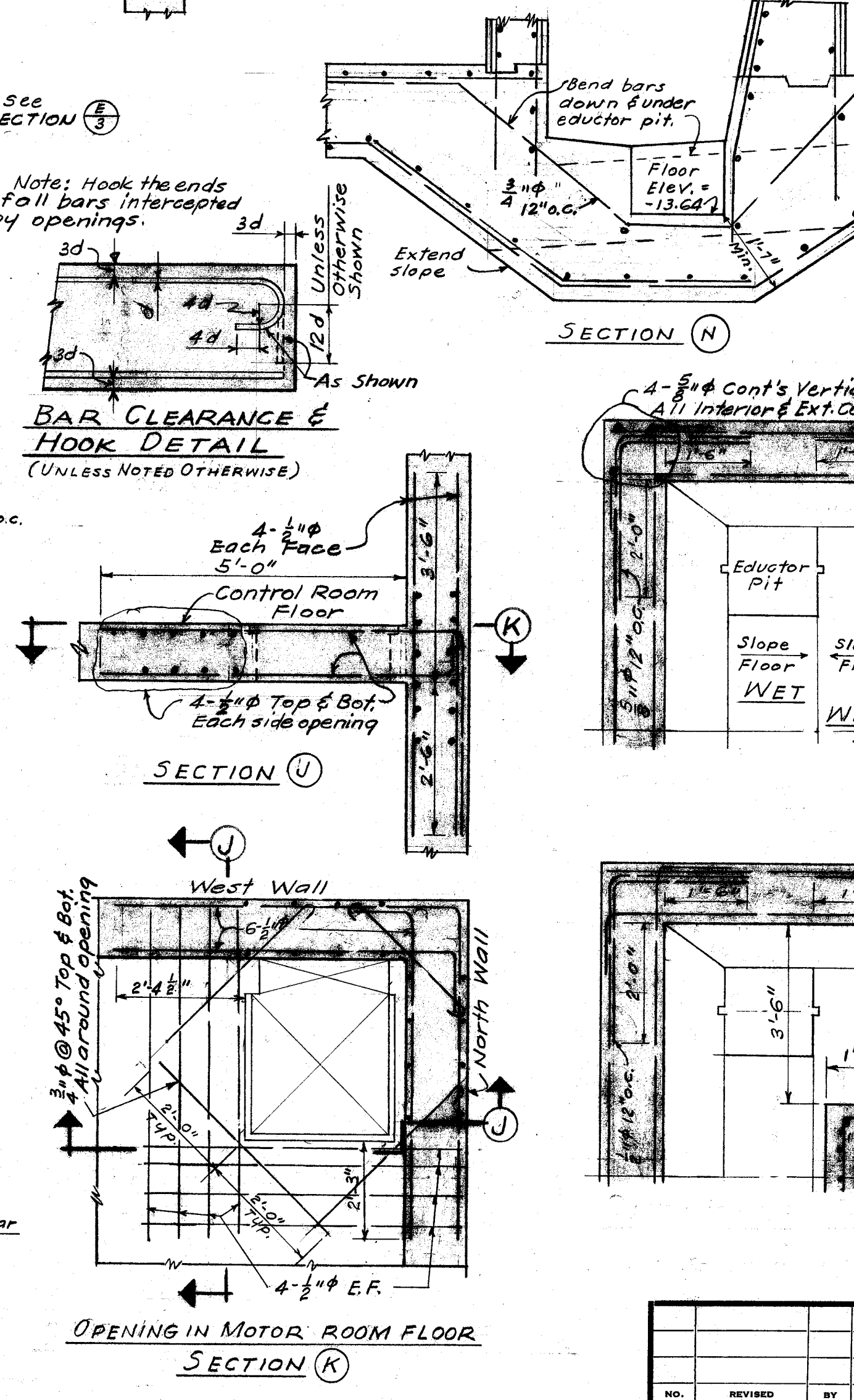
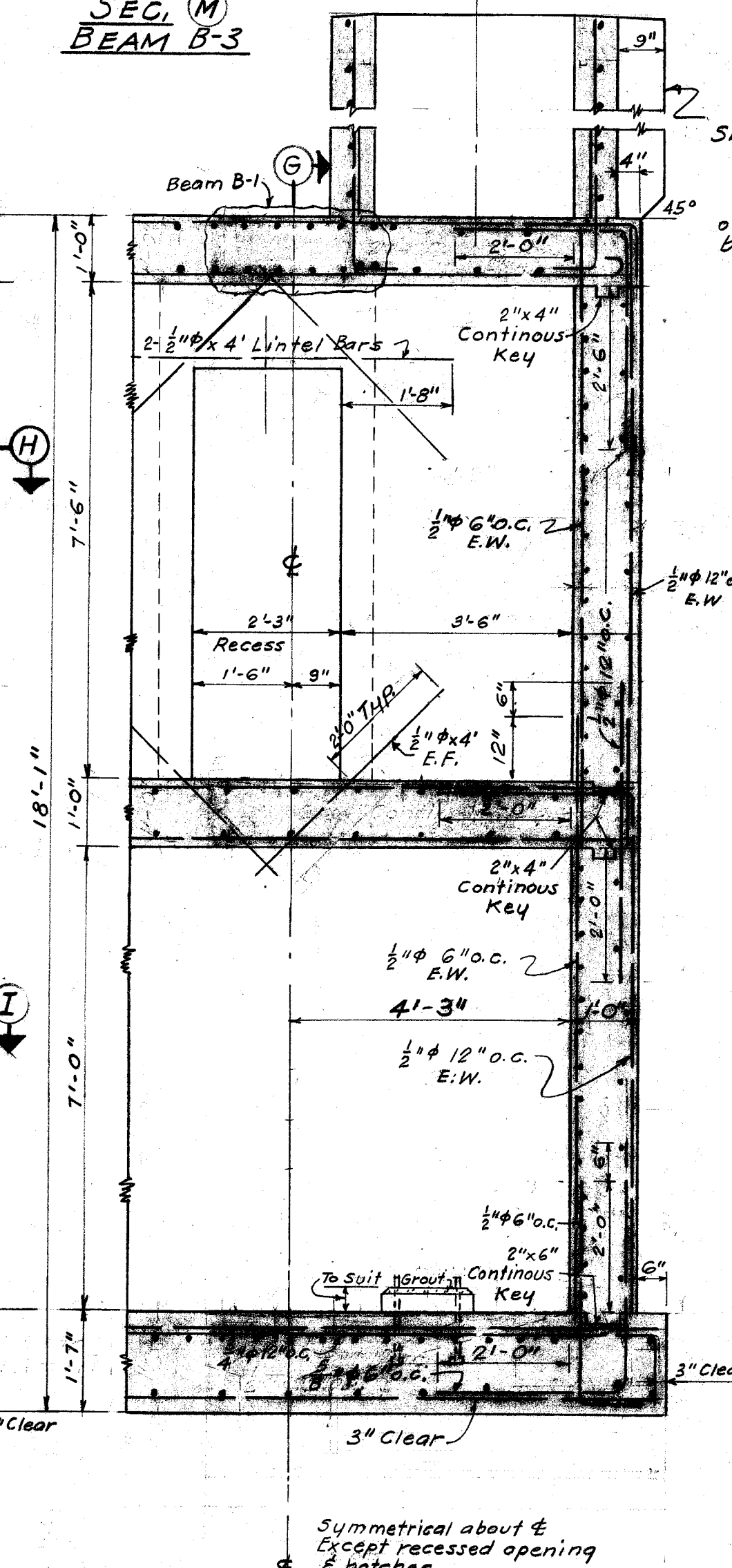
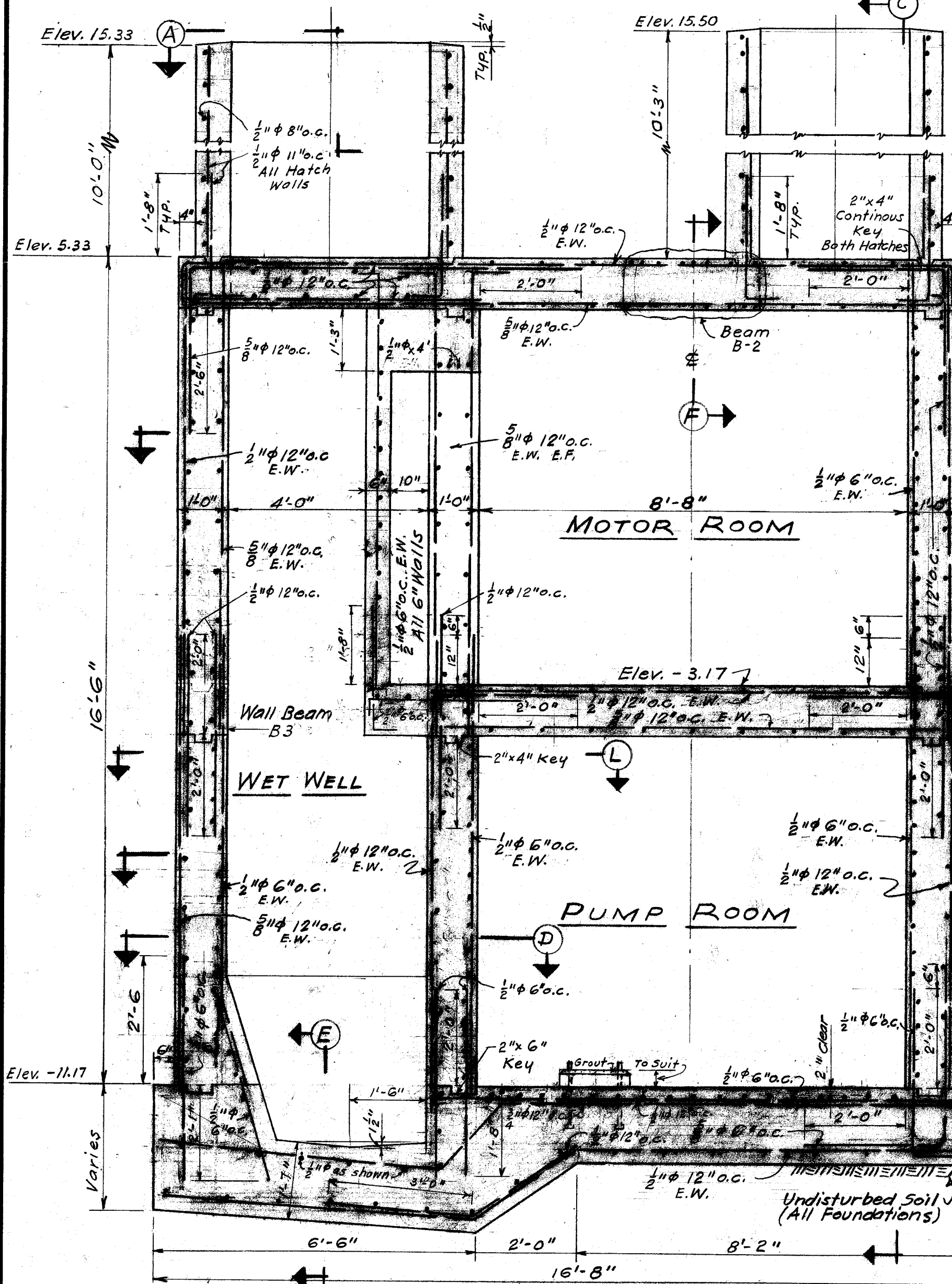
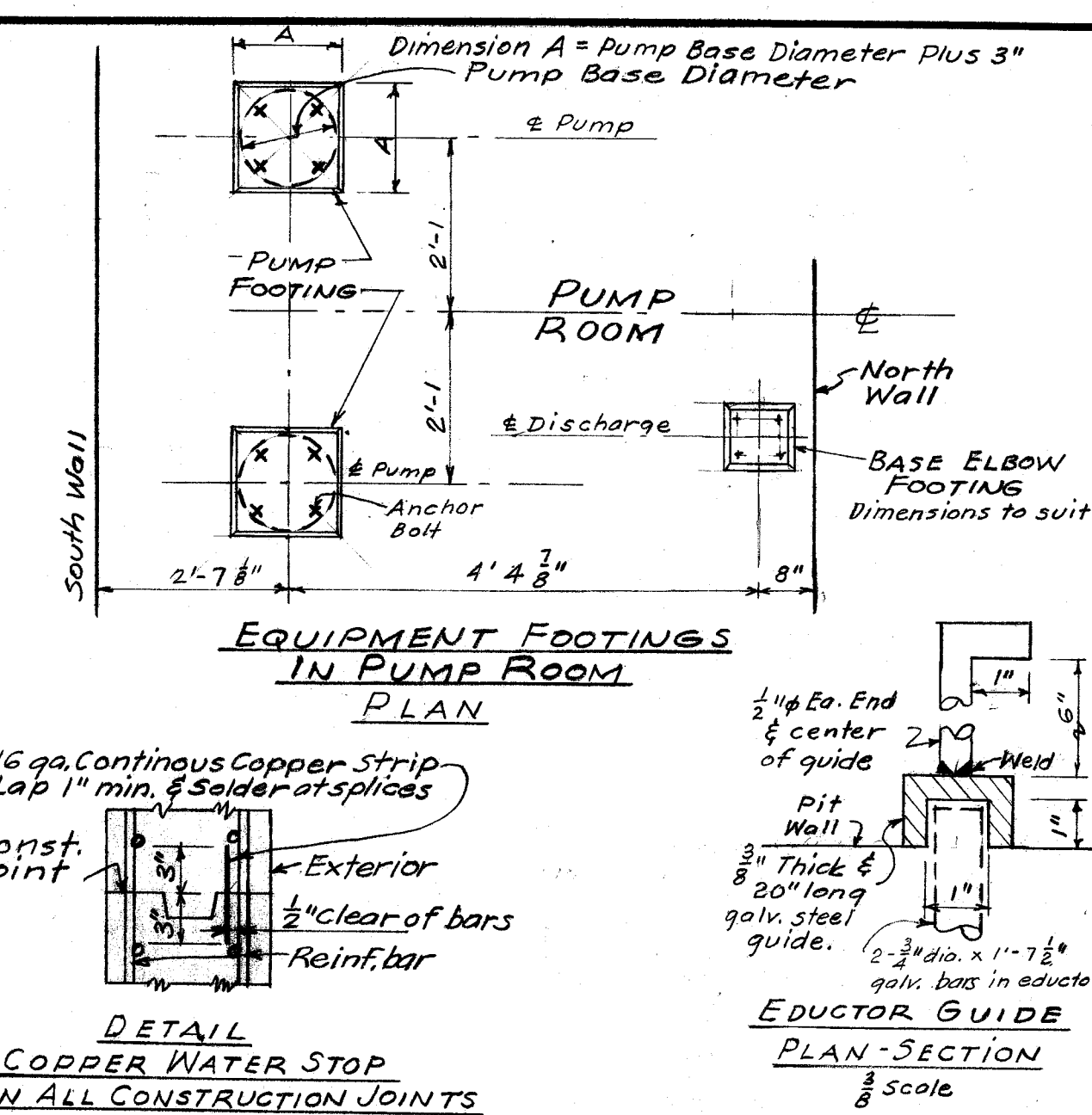
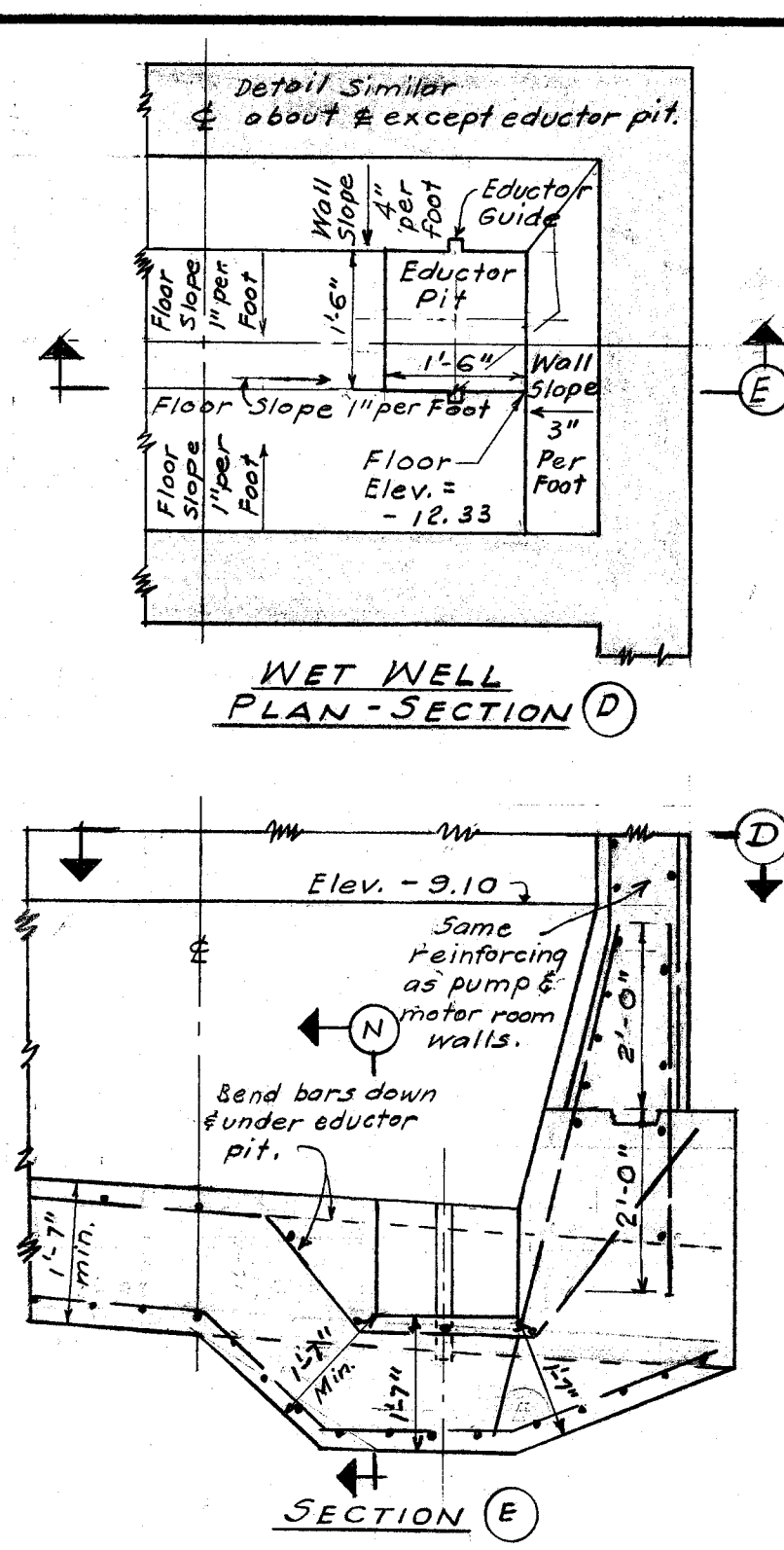
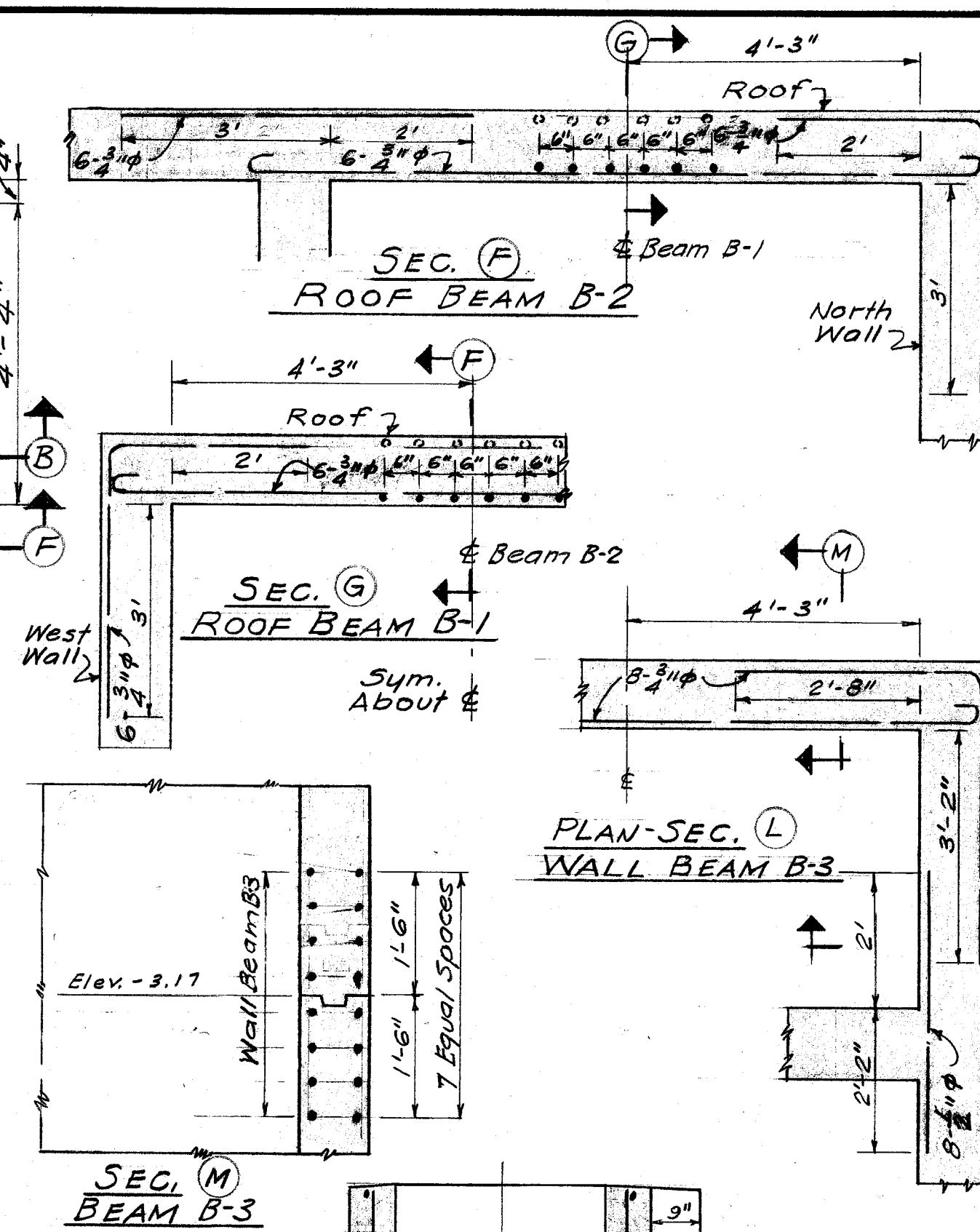
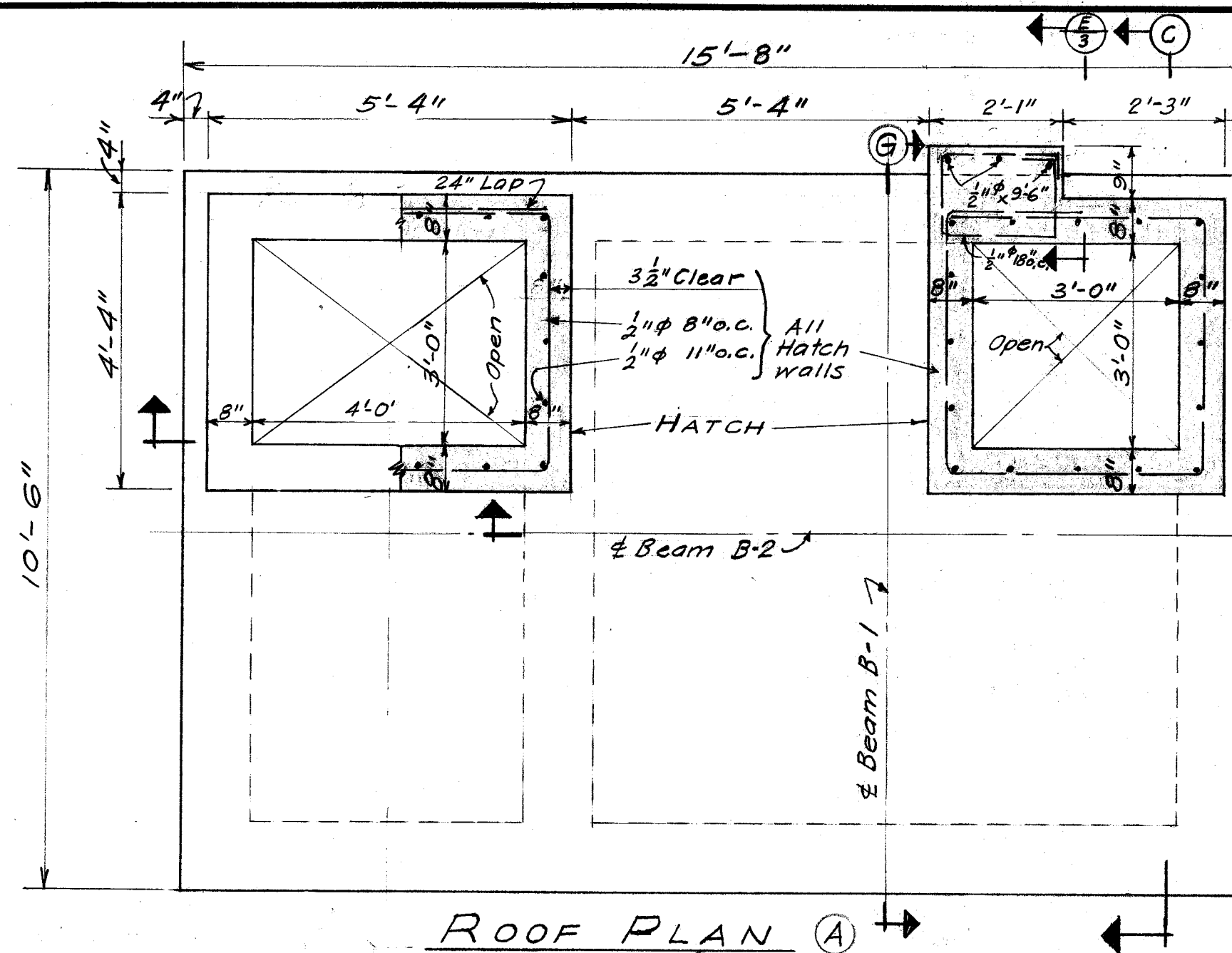


- LEGEND**
- ⊕ Denotes Test Hole
 - M.H. Denotes Manhole
 - E " Centerline
 - FL " Flowline
 - R " Property Line
 - S " Slope
 - F.H. " Fire Hydrant
 - J.B. " Junction Box
 - E.S.V.C.P. " Extra Strength Vitrified Clay Pipe
 - D.S.V.C.P. " Double " " "
 - C.I. " Cast Iron

CITY OF ALAMEDA CALIFORNIA ENGINEERING DEPARTMENT				SHEET 1 OF 3	
SANITARY SEWER PUMPING PLANT 8TH ST. & PORTOLA AVE.				APPROVED BY <i>M. J. Hanna</i> CITY ENGINEER	
COMPILED BY R. REED				REG. C. E. NO. 1061	
DRAWN BY R. REED				DATE 4-16-54	
CHECKED BY L. W. Eichelberger				CASE 3659 31	
DATE MAR. 1952				NOTED	

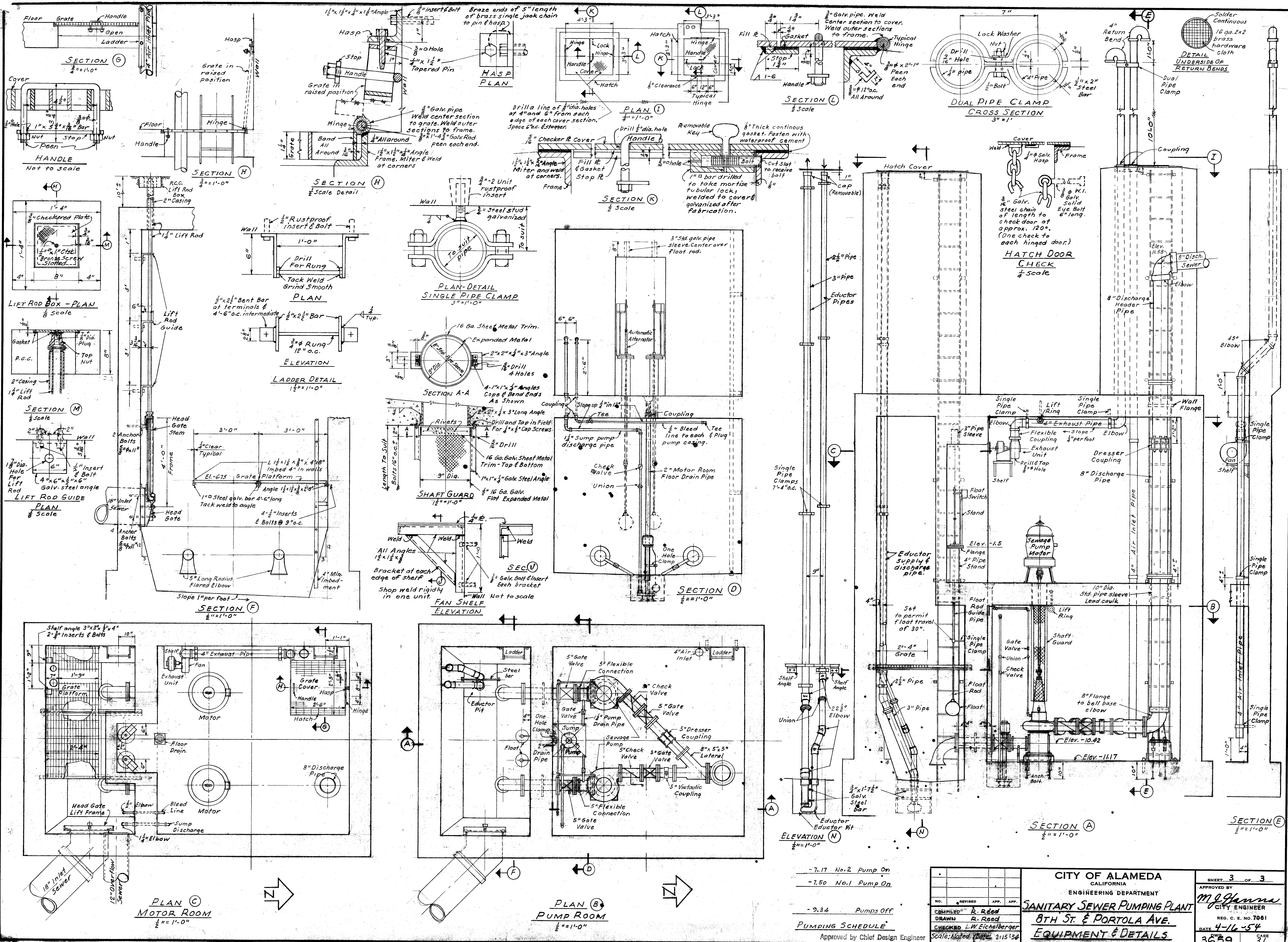


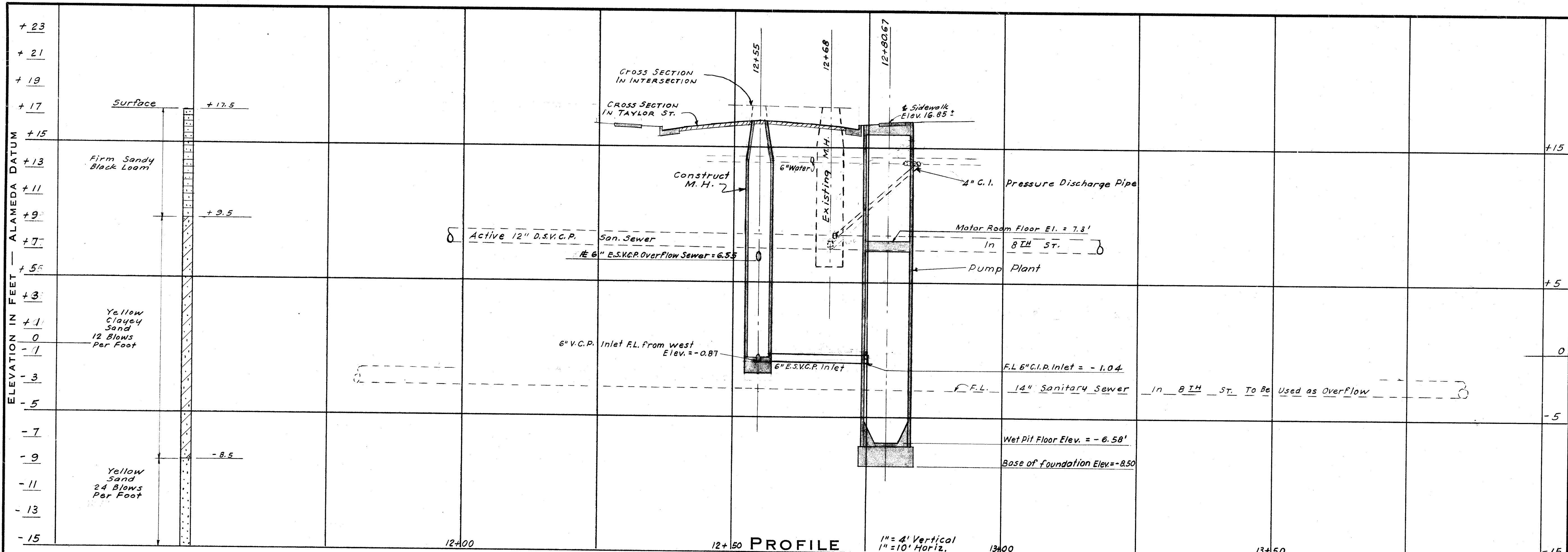
Approved by Chief Design Engineer



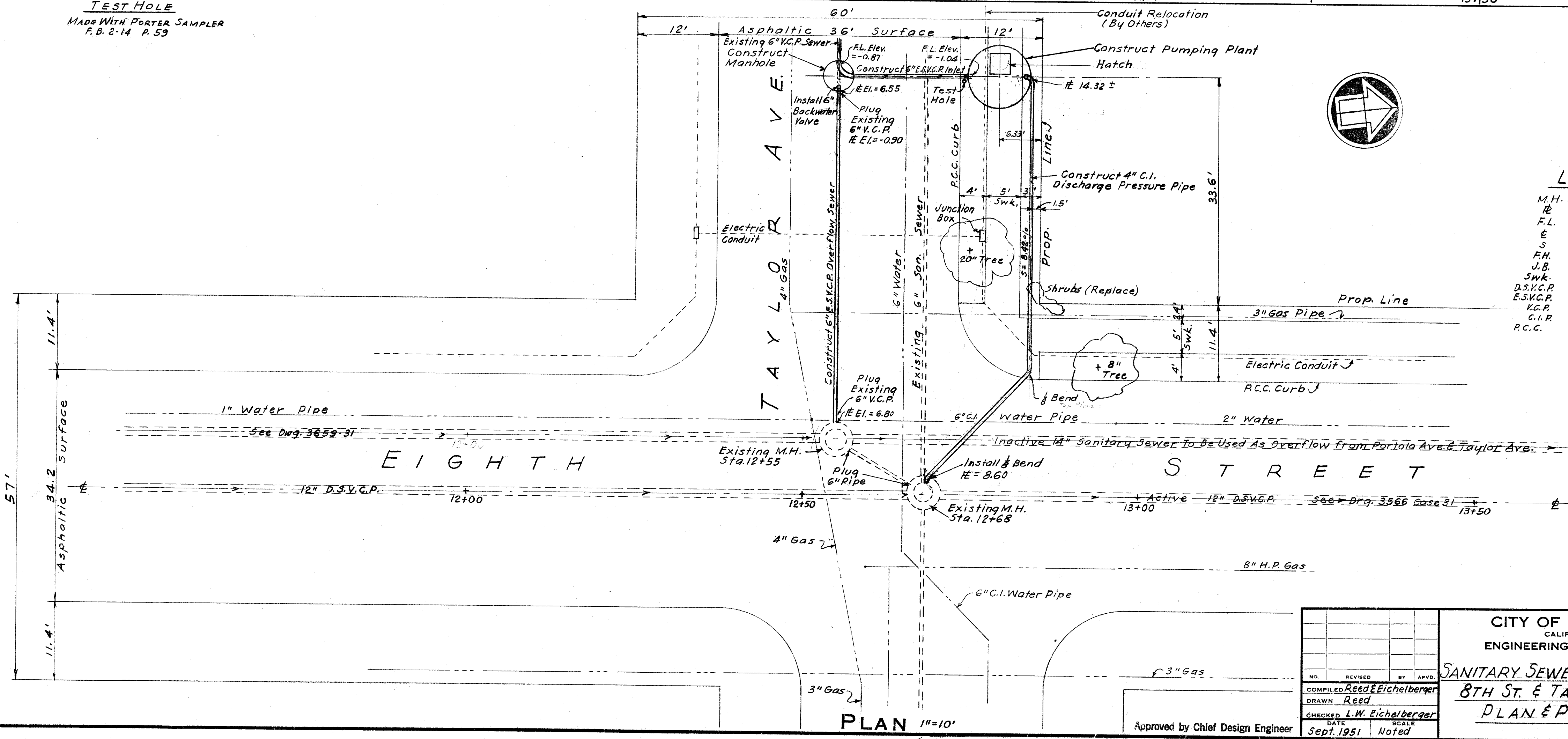
Note: E.W. Denotes Each Way
E.F. Denotes Each Face
Section A Sheet 3
Approved by Chief Design Engineer

CITY OF ALAMEDA CALIFORNIA ENGINEERING DEPARTMENT				SHEET 2 OF 3	
COMPILED BY R. REED				APPROVED BY <i>m. J. Hanna</i>	
DRAWN BY R. REED				CITY ENGINEER	
CHECKED BY J. Phillips & L. Barr				REG. C. E. NO. 7061	
DATE 2-20-54				DATE 4-16-54	
SCALE 1/8" = 1'-0"				CASE 3659	
PROJECT: 8TH ST. & PORTOLA AVE.				STRUCTURAL DETAILS	





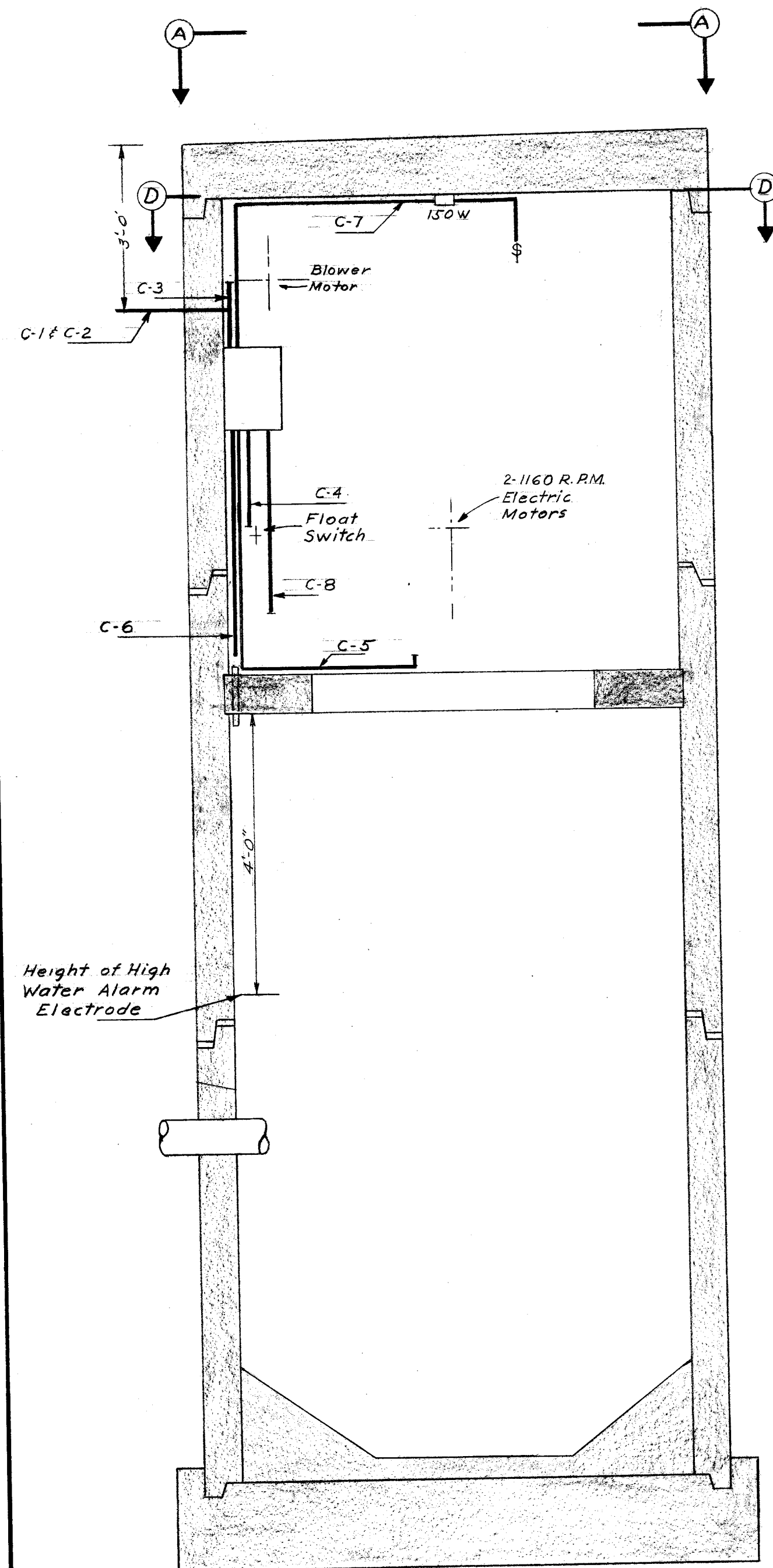
TEST HOLE
MADE WITH PORTER SAMPLER
F.B. 2-14 P. 53



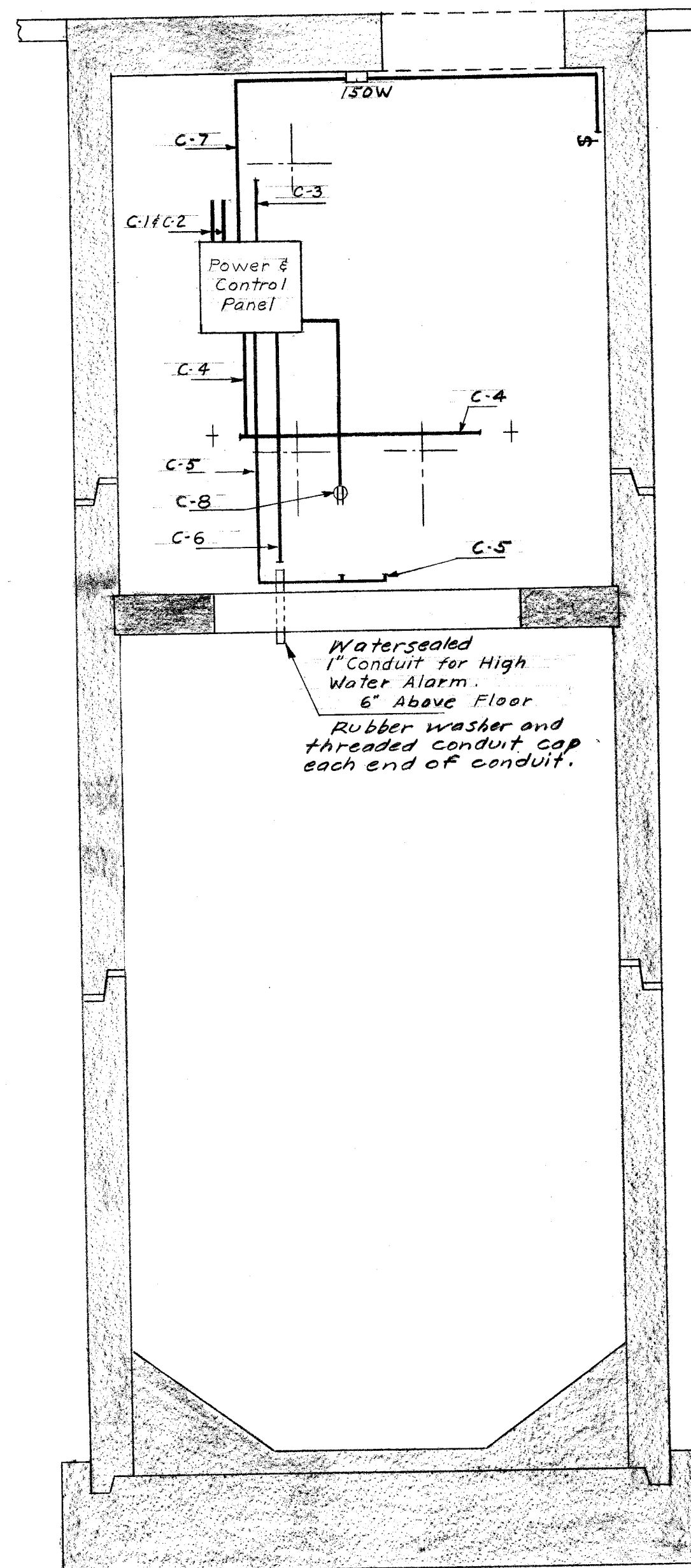
- LEGEND**
- M.H. Denotes manhole
 - R " property line
 - F.L. " flow line
 - E " center line
 - S " slope
 - F.H. " fire hydrant
 - J.B. " junction box
 - SWK " sidewalk
 - D.S.V.C.P. " double strength vitrified clay pipe
 - E.S.V.C.P. " extra " " "
 - V.C.P. " cast iron pipe
 - C.I.P. " Portland cement concrete

REFERENCES
F.B. 1-5 P. 67 Sewer Grades
F.B. 1-18 P. 34 X-Section Taylor Ave.

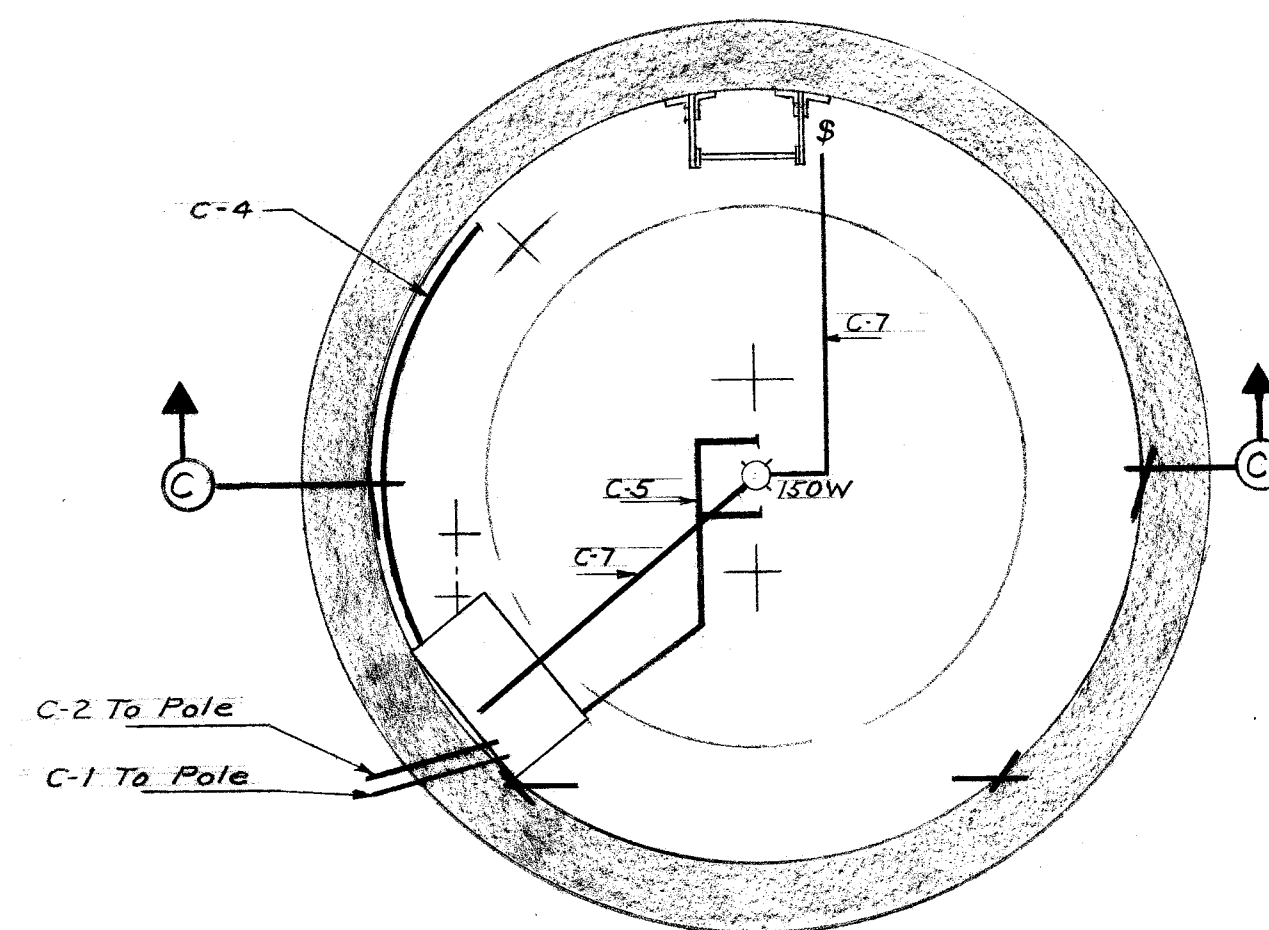
CITY OF ALAMEDA CALIFORNIA ENGINEERING DEPARTMENT		SHEET 1 OF 2	
APPROVED BY <i>M. J. Hanna</i>		APPROVED BY <i>M. J. Hanna</i>	
SANITARY SEWER PUMPING PLANT 8TH ST. & TAYLOR AVE.		CITY ENGINEER REG. C. E. NO 7061	
DATE 4-16-54		DATE 4-16-54	
DWG. 3666		CASE 31	



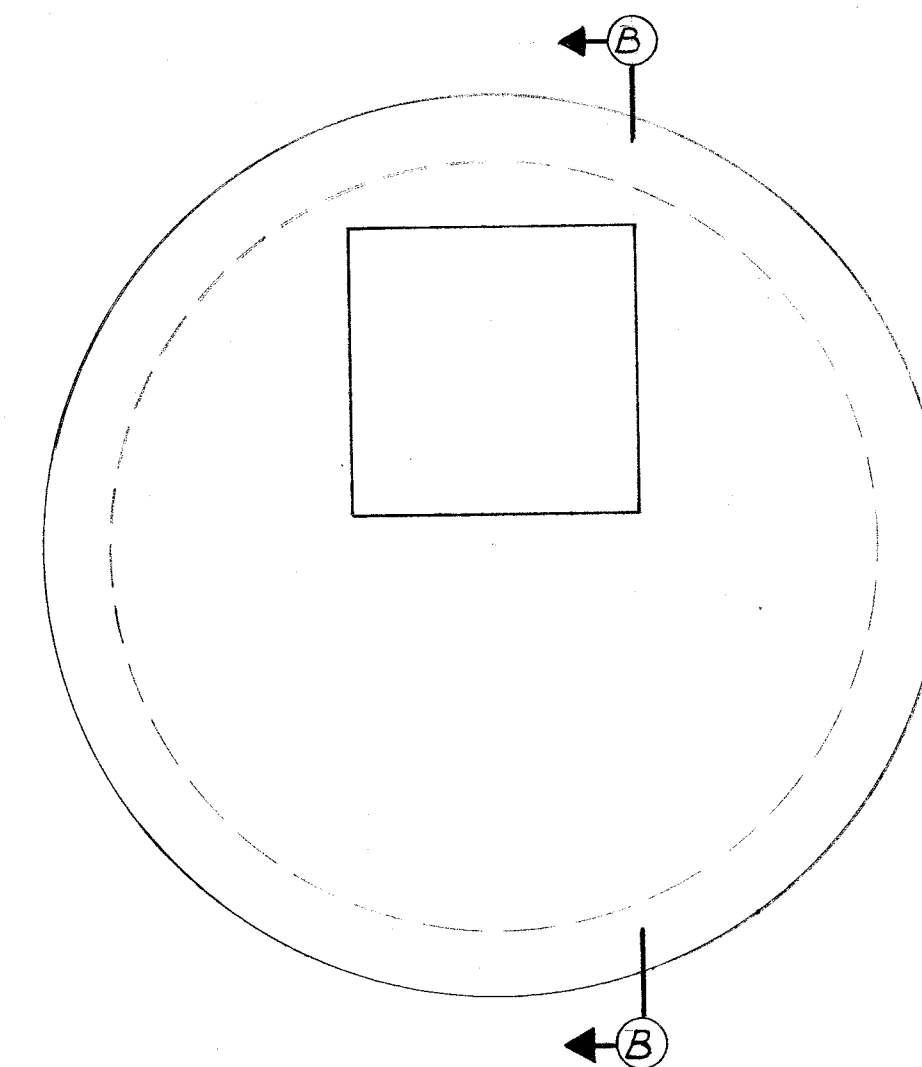
SECTION C
1/2" = 1'-0"



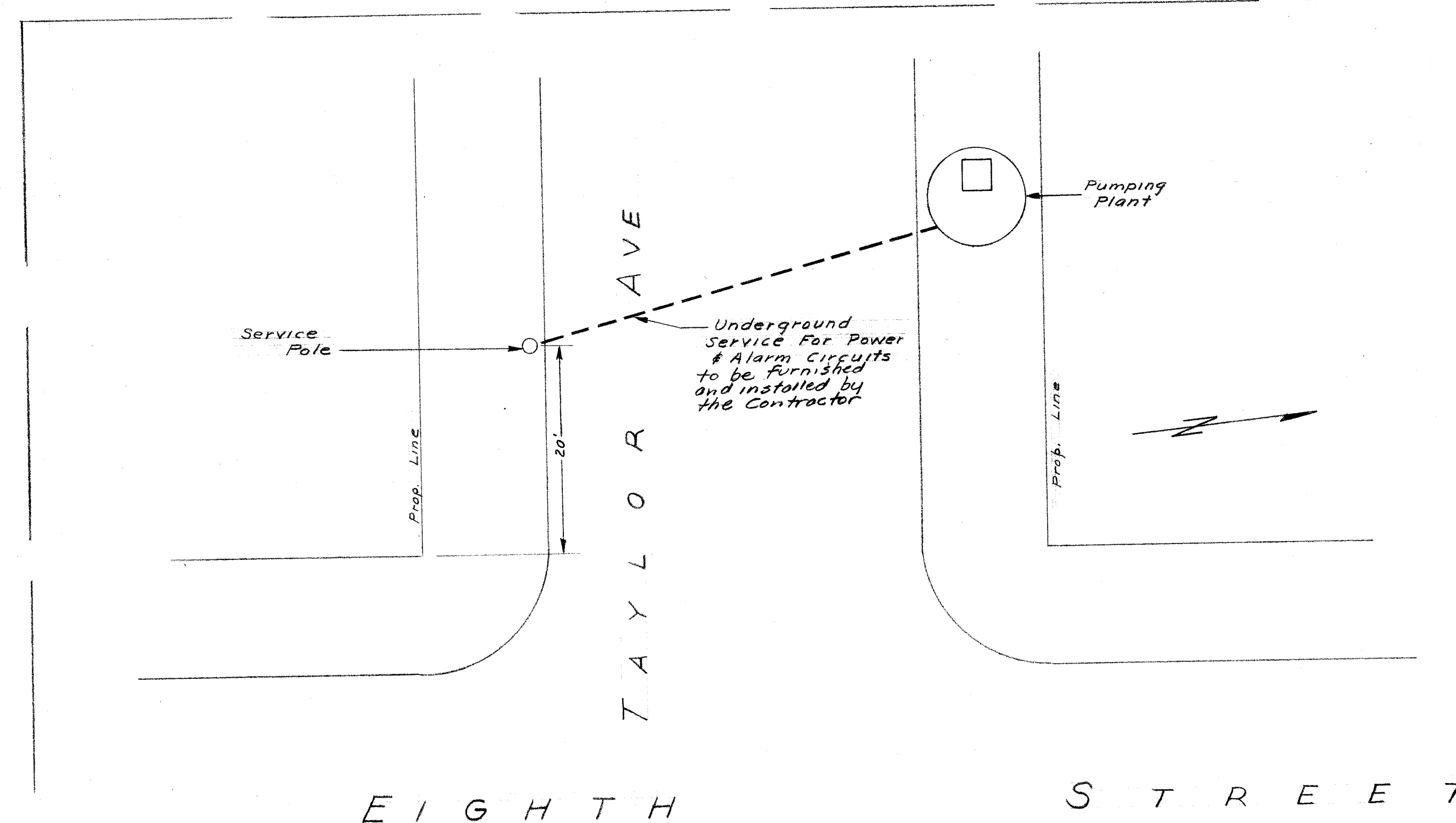
SECTION B
1/2" = 1'-0"



SECTION D
1/2" = 1'-0"

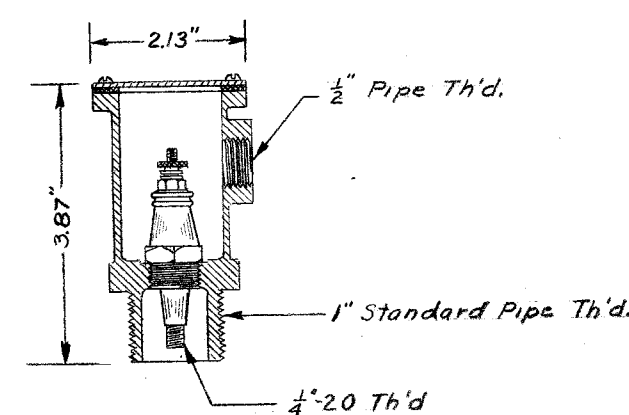


PLAN A
1/2" = 1'-0"



PLAN
1" = 10'-0"

Conduit	Routing From Switchboard	Conductors
C-1	Alarm Circuit From Pole	2-#10
C-2	3Φ Power Service From Pole	3-#6-1-8
C-3	Ventilating Fan	2-#12
C-4	Alternators, Pump Control	4-#12
C-5	Pump Motors	3-#12
C-6	High Water Alarm	1-#14
C-7	Lights, Motor Room 2-150W	2-#14
C-8	Duplex Receptacle, Motor Room	2-#12

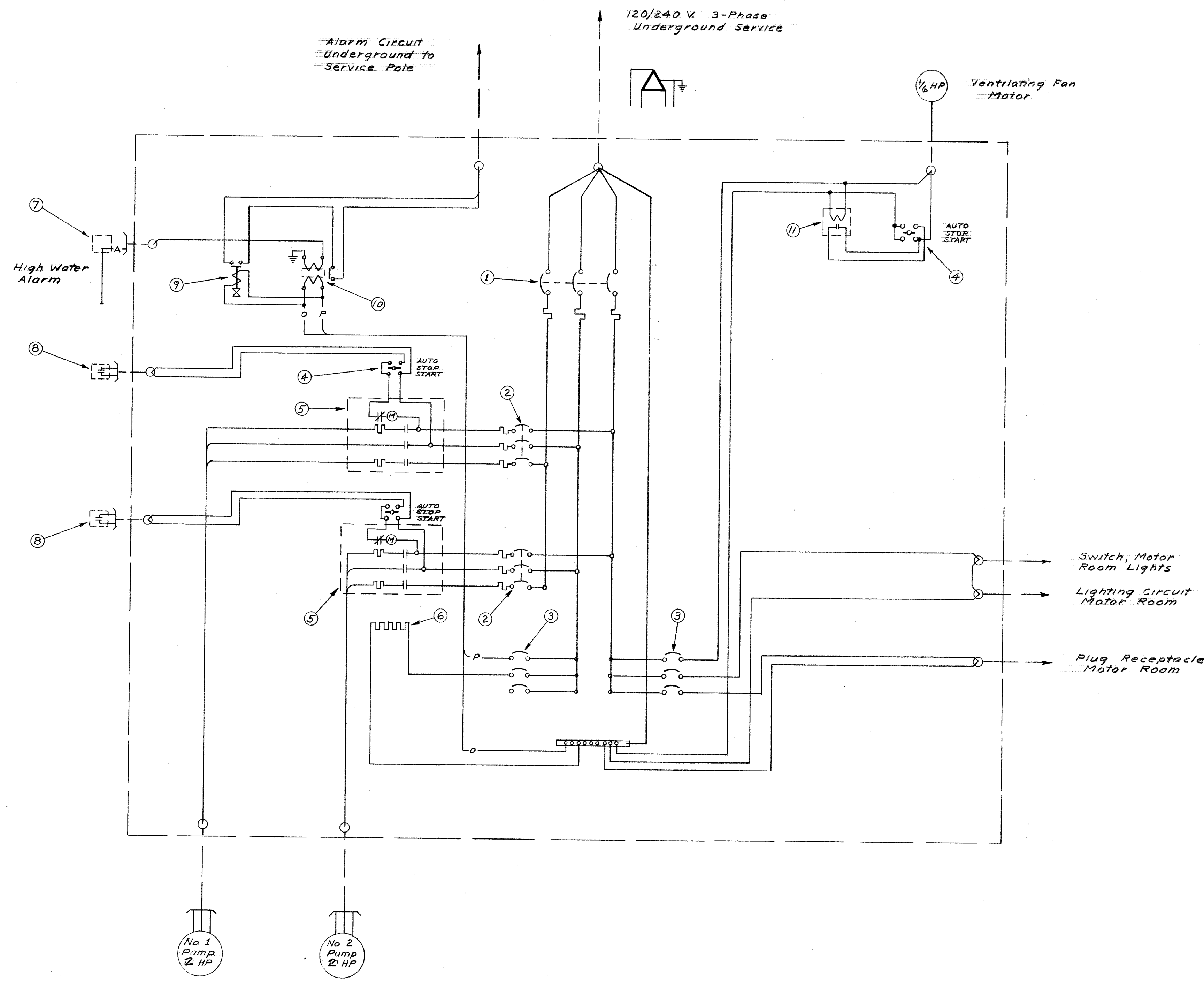


TYPE E-1
ELECTRODE HOLDER
NOT TO SCALE

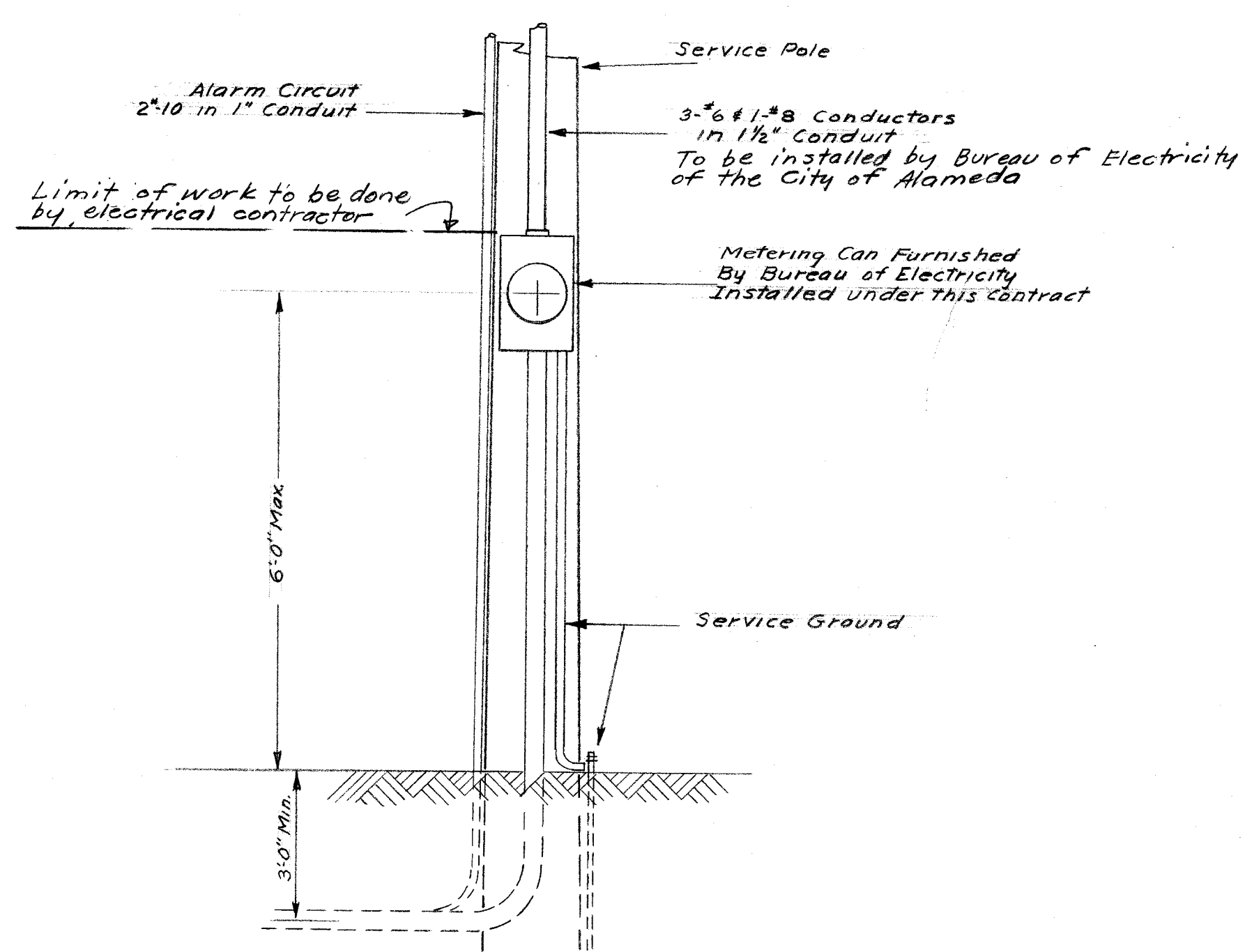
SEWAGE PUMPING PLANT 8TH ST. & TAYLOR AVE ELECTRICAL LAYOUT

DEPARTMENT OF PUBLIC UTILITIES
CITY OF ALAMEDA, CALIFORNIA

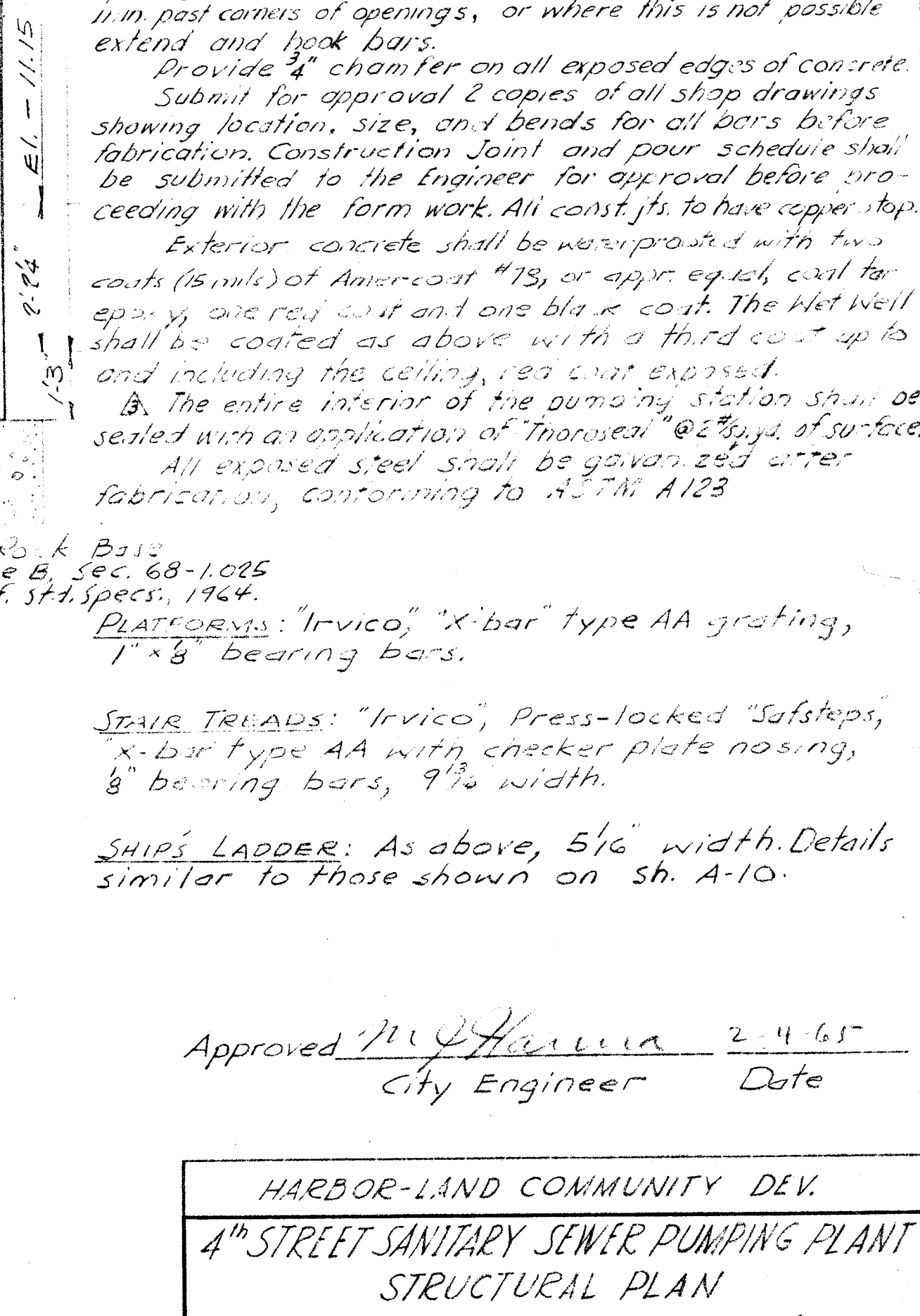
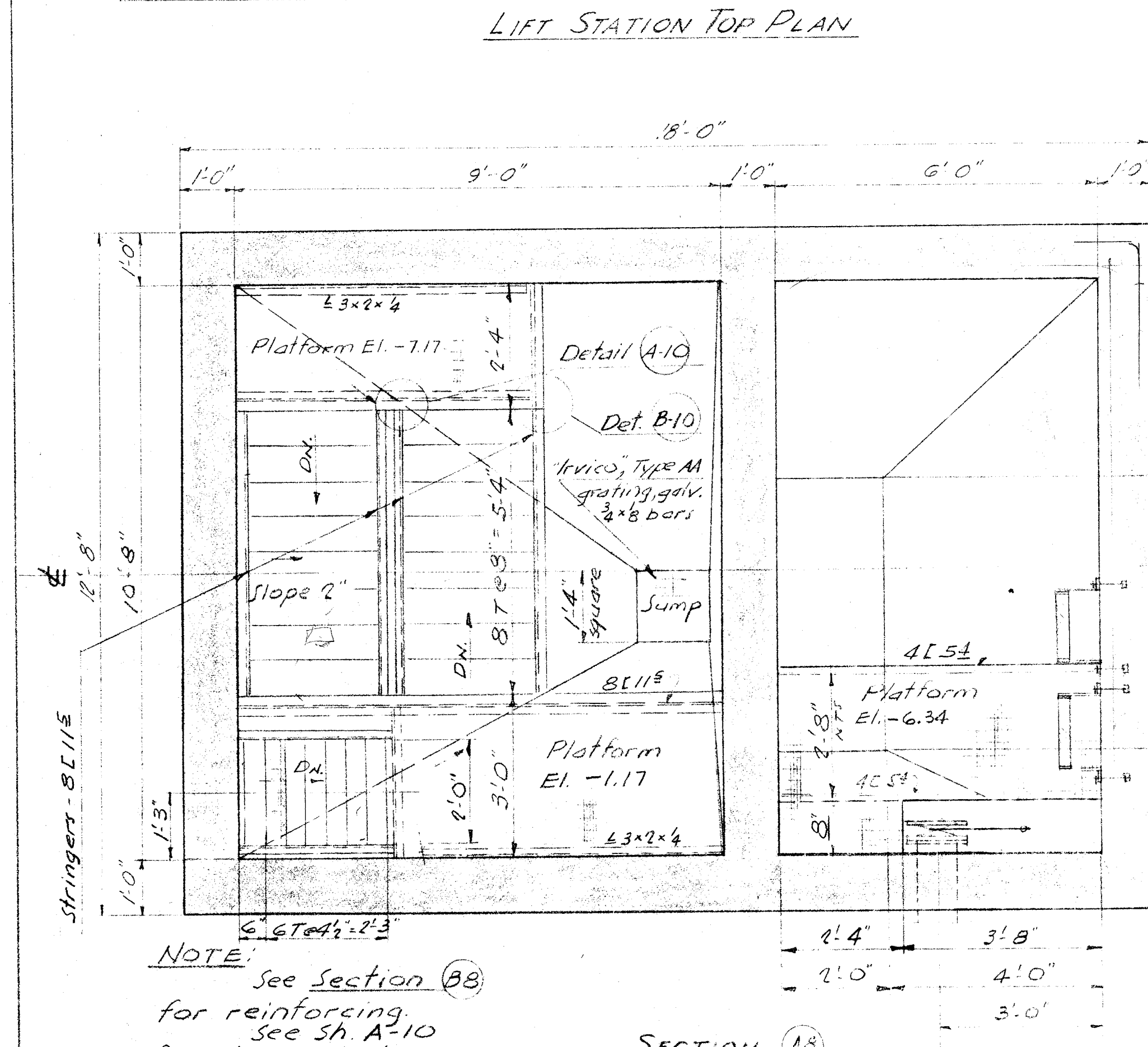
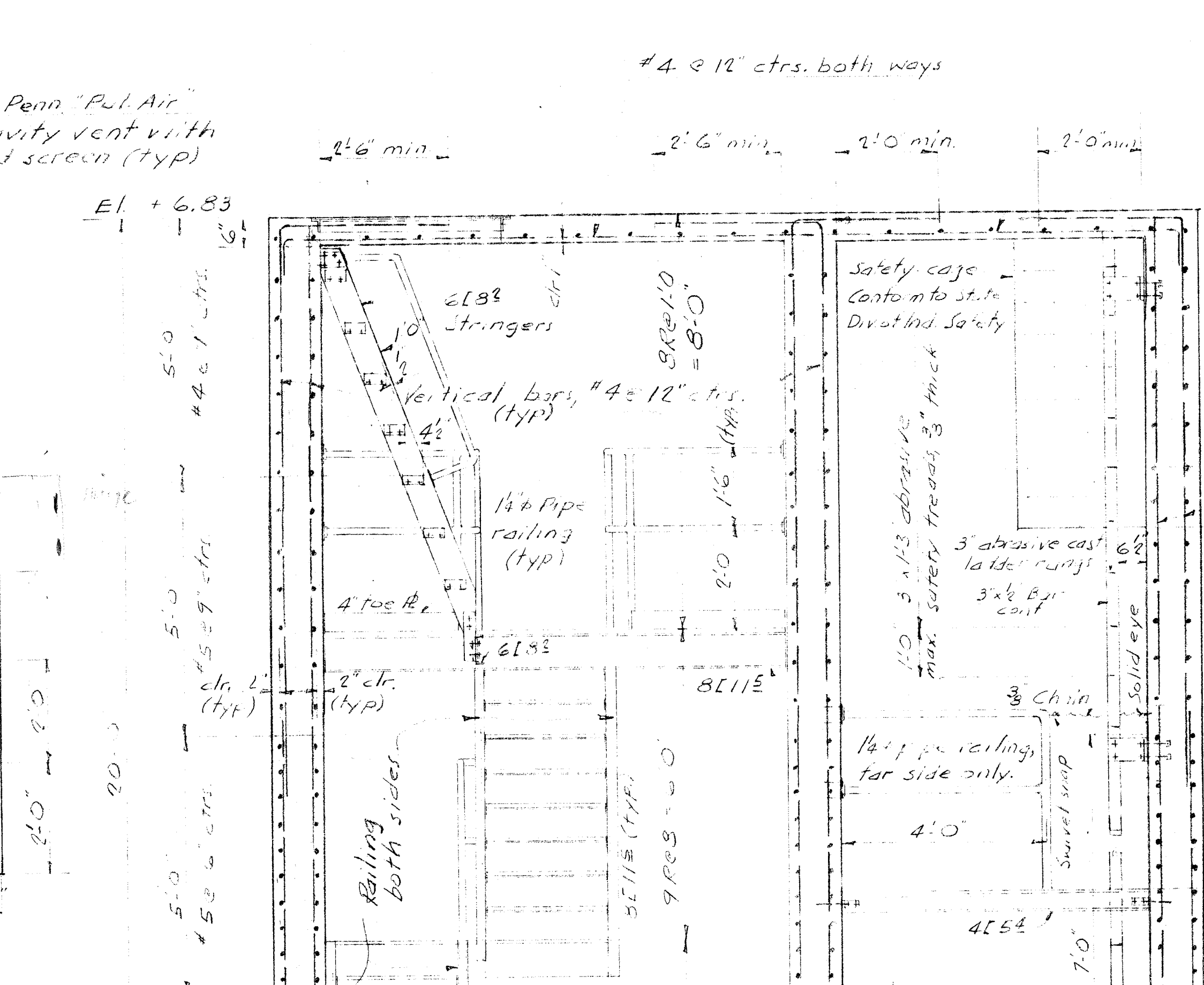
BUREAU OF ELECTRICITY			
DRAWN JHH	SCALE	SUPERSEDES	
TRACED	BILL MAT.	SUPERSEDED BY	
CHECKED		SHEET NO. 3 OF 4 SHEETS	
DATE 1-20-53		DRAWING NUMBER	
APPROVED		CHANGE	
		4-A-162	



- ELECTRICAL EQUIPMENT (MAJOR ITEMS)**
- | Item | Description |
|------|--|
| 1 | Air Circuit Breaker, Type AB, 50 Amp, 240 Volt, 3-Pole, E-Frame |
| 2 | Air Circuit Breaker, Type AB, 15 Amp, 240 Volt, 3-Pole, E-Frame |
| 3 | 8-15 Amp, 120-Volt, 1-Pole Circuit Breaker |
| 4 | Control Switch, 240 Volt, 1-Pole, 2-Throw |
| 5 | Motor Starter, Magnetic, 240 Volt, 2 H.P., 3-Phase with Thermal Overload & No-Voltage Release. |
| 6 | Strip Heater, use 150 watt, 240 Volt Heater on 120 Volt |
| 7 | Floatless Liquid Level Alarm. Complete with waterproof & corrosion resisting brass electrode holder similar to B/W Controller Corp., Type E-1. |
| 8 | Pump Control, Automatic Alternator with Float Switch similar to "Chicago" Control Apparatus, Chicago Pump Co. |
| 9 | Undervoltage Relay, Time Delay, Contact normally closed when Relay is energized, 120 Volt, 60 cycle, Continuous Duty, Agastat Relay, Type NE-22, Electro-Pneumatic Time Delay Relay, American Gas Accumulator Co. or approved equal. |
| 10 | Induction Relay, 1 normally closed contact, similar to B/W Controller Corp., Type R. |
| 11 | Time Switch, Synchronous clock driven, 120 Volt, with adjustable time interval of closing. |



SEWAGE PUMPING PLANT			
8 TH ST. & TAYLOR AVE			
WIRING DIAGRAM			
DEPARTMENT OF PUBLIC UTILITIES			
CITY OF ALAMEDA, CALIFORNIA			
BUREAU OF ELECTRICITY			
DRAWN JHH	SCALES	SUPERSEDED BY	
TRACED		SUPERSEDED BY	
CHECKED	BILL MAT.	SHEET NO. 24 OF 24 SHEETS	
DATE 1-20-53		DRAWING NUMBER	
APPROVED		CHANGE	
SPT. OF OPERATIONS		4-A-162	



B	Revised waterproofing	1-5-65	H.C.	L	SCALE 1/8"=1'-0"	J. Y. LONG CO. ENGINEERS OAKLAND, CALIFORNIA	DWG. NO. G3127
A	Added notes, chgd ladder.	1-9-65	K.L.	L	DATE 10-12-64	<i>Jack Y. Long</i>	A-8
A	General revisions	1-5-65	K.L.	L	DR. wfc		
NO.	REVISIONS	DATE	BY	CH.	CH. L	R.E. NO. 5591 - L.S. NO.	

attic 5604P-113 (F)



GENERAL NOTES

SEWAGE PUMPING STATION shall consist of a complete, integral unit, including structure, piping, mechanical equipment, controls, electrical requirements, and all appurtenances.

All work shall conform to all applicable codes and ordinances and to the requirements of the State of California Division of Industrial Safety and all other authorities having jurisdiction.

SEWAGE PUMPS shall be Pacific, Chicago, Wemco, or other pumps of equal quality and capacity, with prior approval by the Engineer, for installation in a dry basin as shown on the plans.

Pumps shall be equivalent to Pacific Pumping Co., "Paco", non-clog, 4" CC type NCF, vertical, heavy duty pumps, each having a capacity of 420 gpm @ 26' TDH maximum and 19' TDH minimum and be non-overloading throughout the entire range and when operated in parallel. Pumps shall be equipped with enclosed, non-clog type, cast iron impellers, capable of passing 3" minimum diameter spheres. Pump back heads shall be drilled and tapped for 1" IPS vent connections. Each pump shall have a renewable stainless steel shaft sleeve, and shall be supported by a double ball bearing pedestal, with grease lubricated bearings, deep packing box, with lantern ring. Packing box shall be drilled and tapped for Zerk grease fitting. Manufacturer to furnish grease gun.

Motors shall be NEMA standard, open drip-proof, ball bearing, connected to pumps with flexible couplings. Motors shall be 860 or 1150 rpm, 220-3-60, and not less than 5 HP. Motors shall be amply rated for conditions specified on continuous duty, certified performance curves, including efficiency curve, required before acceptance. Provide lift rings and rodent screens.

SUMP PUMP shall be "Paco", model 14" 503, type ASF, or approved equal, bronze fitted submersible sump pump, 3 HP, 110-1-60, submersible motor with built-in float switch, with sufficient waterproof cable for connection to control panel. Pump to deliver 17 gpm @ 20' TDH. H.O.A. control. High water alarm to be set 2" above grate. Tie into sewer pump alarm.

DEHUMIDIFIER shall be an RCA, AKA-H15X, or approved equal, hermetic freon compressor with expansion coil, condenser coil and fan, capable of removing up to 4 gals. of moisture per day. It shall be controlled by a humidistat with low temperature cutout and heavy duty relay. 15 amp surge, 3 amp operating, 110-1-60. Install in Dry Well according to manufacturers instructions.

SUPPLY BLOWER shall be a Trane, No. 10FY, or appr. equal, 940 cfm @ 3" SP, direct drive, Utility Fan, B1 blades, 1225 rpm, 1/2 HP, 110-1-60. (4 each = 145 cfm). Interlock blower with sewage pumps and automatic switch on hatch cover. Provide Sangamo, or appr. equal, time switch to operate blower 10 min. minimum per hr, moisture proof encl. H.O.A.

CONTROLS shall be "Paco", Bubomatic Liquid Level Control, or approved equal, floor mounted, prewired and factory tested panel in General Purpose Type I enclosure including the following: Circuit breaker disconnect switches for each pump motor and for air compressor; low voltage control circuit (120V); magnetic starter for each pump motor; Braley automatic electric alternator; H.O.A. selector switch for each motor; pressure sensors; liquid depth gage; visible indicating air flow meter; audible and visual high water alarm for mounting of remote bell on existing alarm board at Alameda Central Police Station, with silencer and automatic alarm reset. Air compressor and receiver are mounted within the panel. Both pumps will come on in the event one pump cannot handle the flow, and second pump will automatically take over if one pump fails to operate. If this should occur, the alarm system shall be tripped.

In addition to the above, the panel shall contain circuits for the Supply Blower, Humidifier, Lighting Circuit, Receptacle Circuit, Sump Pump, and two spare 110 V. circuits. Provide necessary transformers, relays, solenoids, and all required appurtenances.

HIGH WATER ALARM to be set 6" above High Water Level in Wet Well. Tie high water alarm from Sump into alarm system. Run alarm conduit and wiring to outside of station. See Sh. A6 & A7.

BUBBLER PIPING shall be 1/2" galv. steel pipe terminating in a 3"x12" bell 6" below Low Water Level.

INSPECTION shall be provided by the pump manufacturers representative. He shall be responsible to the Engineer for placing the plant into operation.

PIPING shall be Class 150 asbestos cement pipe and 125# U.S. Std. C.I. pipe in the pump station, 125# C.I. flanged fittings, galvanized bolts & nuts, full faced flanges and full face 8" Gorbuck #219 gaskets. Provide thrust blocks for A.C. Pipe.

SUPPORTS: All equipment and piping shall be set, grouted and supported in an approved manner with standard brackets, hangers, and accessories, Fee & Mason, which, or approved equal.

CAULKING: All wall penetrations shall be water tight and gas tight. Roof penetrations shall be water tight.

MISS: Equipment on the roof shall be thoroughly secured and made vandal proof.

PAINTING: Paint all galv. metal, pipes & ducts with 1 coat "Dutch Boy", 069 galv. metal primer & 1 coat 48C40 enamel. Other metal surfaces, 1 coat 052 red lead 1 coat 701 & 1 coat 42C40. Colors designated by City of Alameda.

ELECTRICAL work shall conform to the requirements of the City of Alameda Bureau of Electricity, State of California "Electrical Safety Orders", AIEE, NEMA, and ASA standards.

SERVICE ENTRANCE according to the Bureau of Electricity

CONDUIT shall be new, thick wall, rigid, galvanized. Conduit and boxes in Wet Well shall be waterproof and sealed gas tight.

CONNECTIONS in conduit shall be Type TIV for 600 volts.

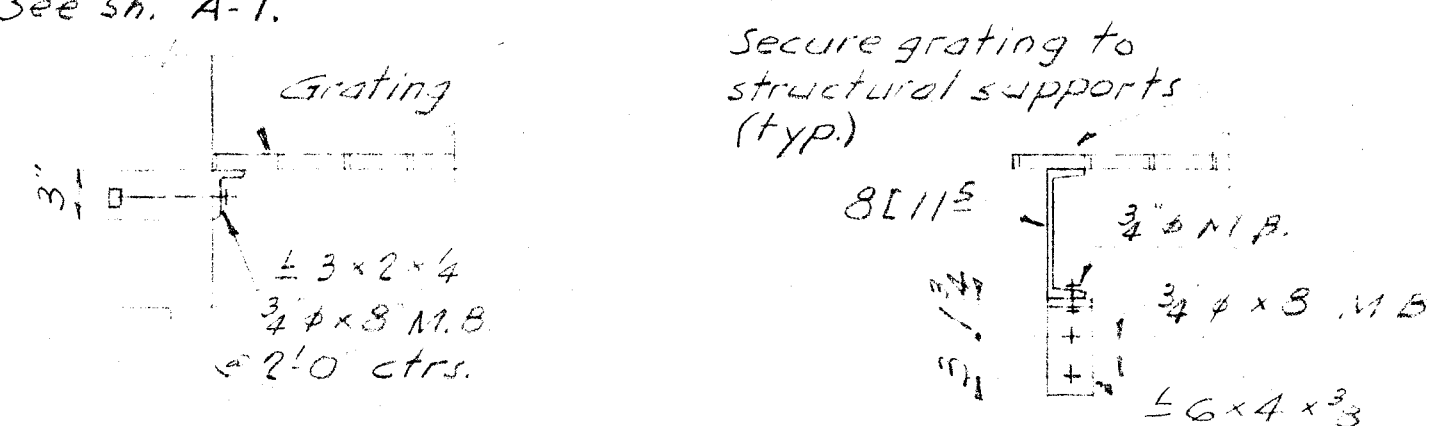
RECEPTACLES shall be Sierra, or appr. equal, 1402-WPD, 15A, 125 V.

LIGHT SWITCHES shall be Sierra, 5021-WP-2 plate. **LIGHTING FIXTURES** shall be Croise Hinds, EVBX-125, explosion proof for the Wet Well and VI 12009 and VD 12009, watertight for the Dry Well, except as noted, 150 watt lamps.

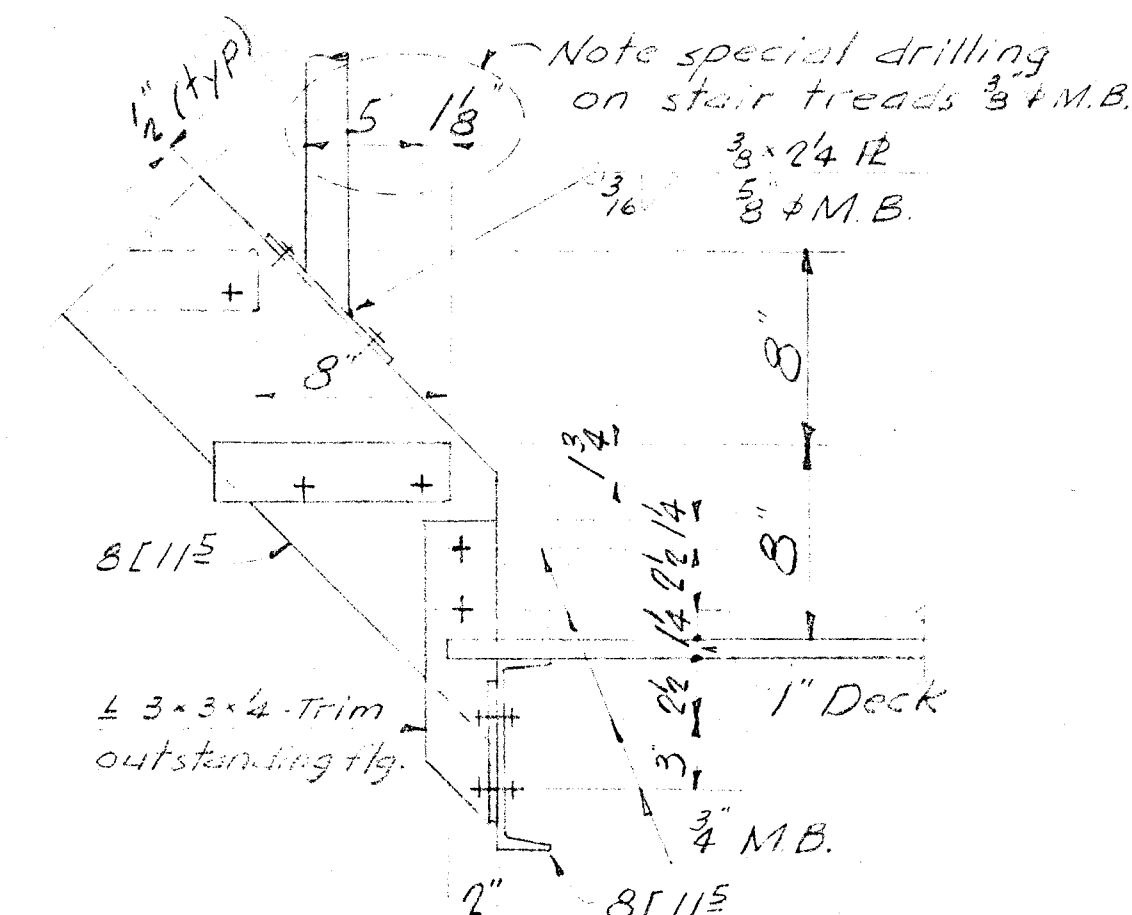
WIRING DIAGRAMS to be furnished by equipment and panel manufacturers. See notes at left.

GENERAL: Furnish & install all necessary and/or required appurtenances for a complete operable electrical system. Lighting fixtures, receptacles, switches and junction boxes are surface mounted.

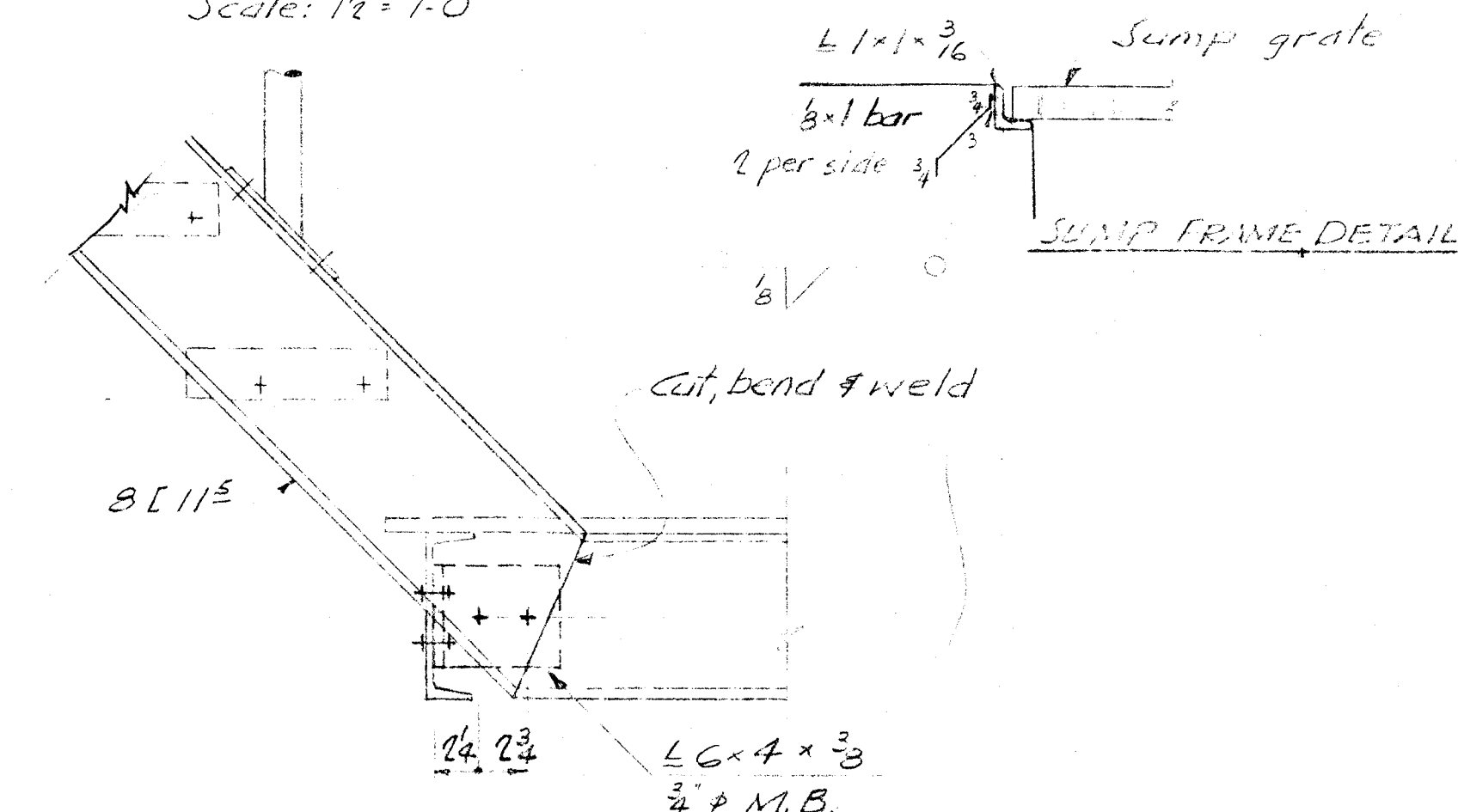
Conduit is exposed. Run 3" TW conductors from trans pad on Harbor-Land Dr. to pumping plant. Underground conduit (1/2") is in another section. See Sh. A-7.



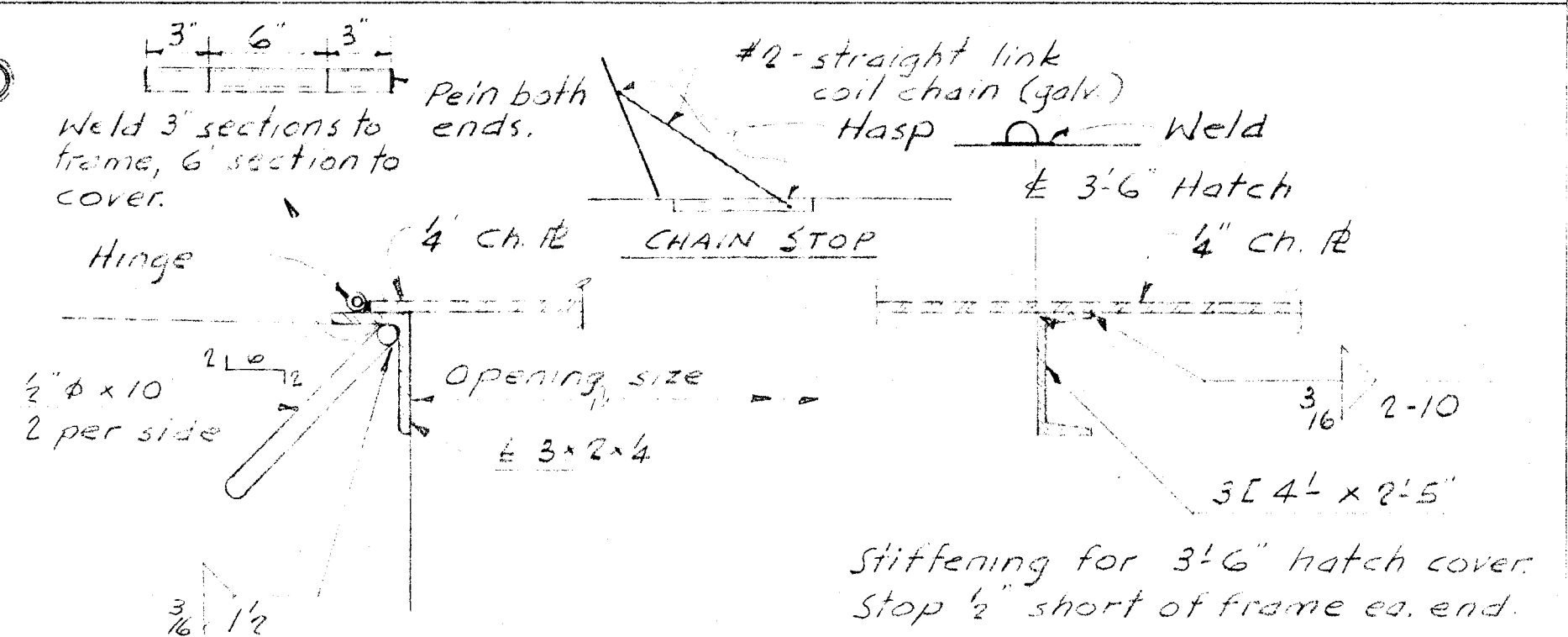
E TO WALL CONN. (TYP) Scale: 1" = 1'-0"



DETAIL A-10 Scale: 1 1/2" = 1'-0"

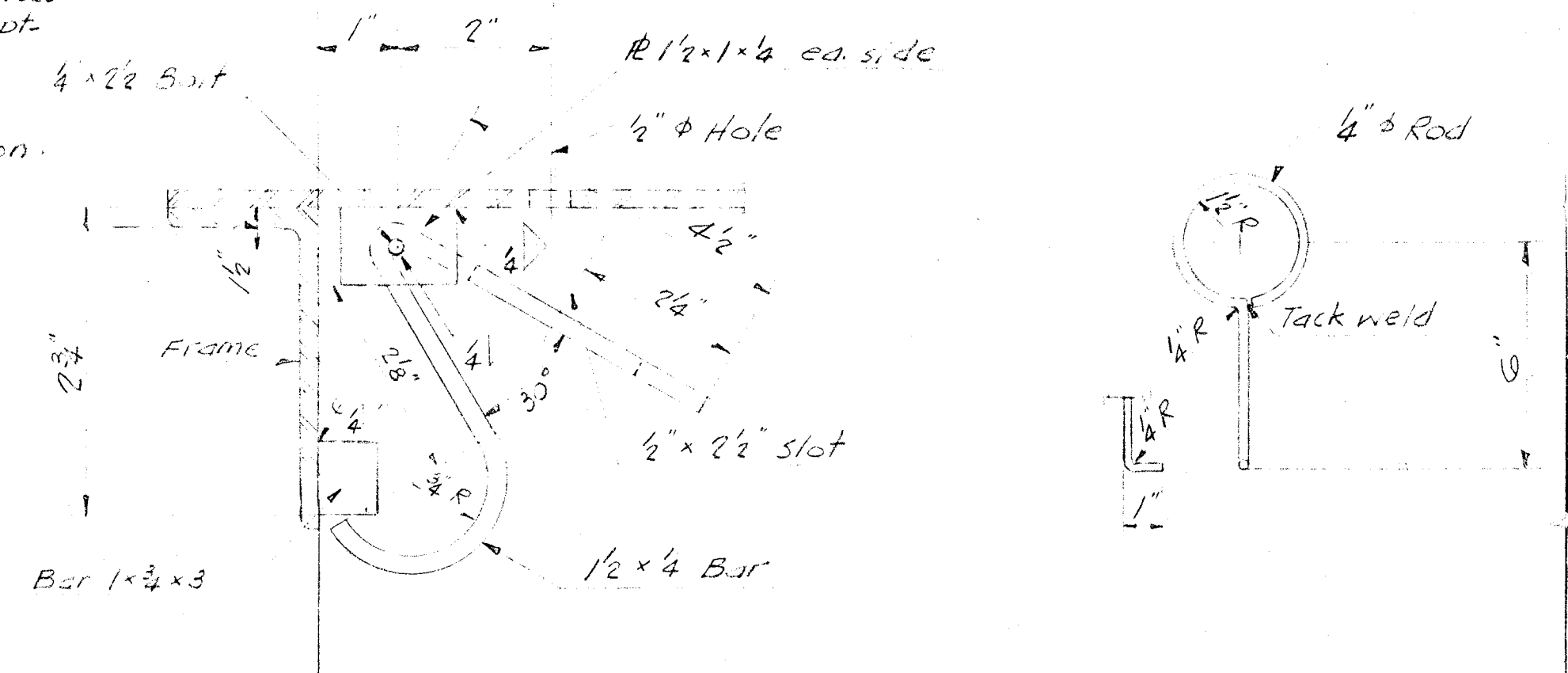


DETAIL B-10



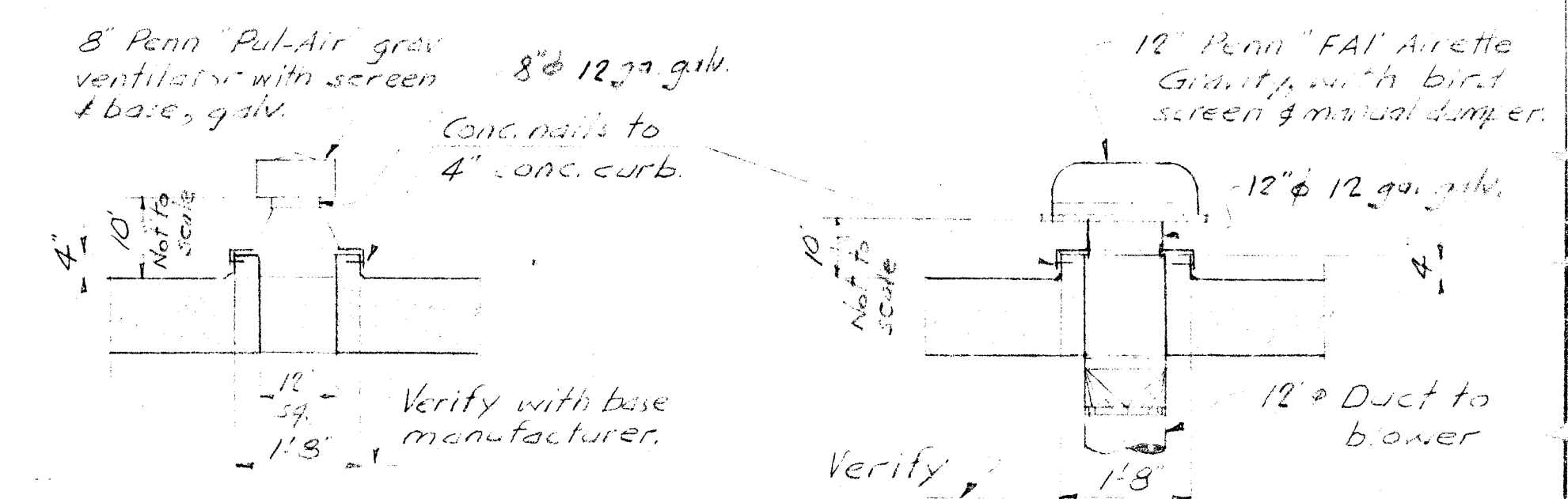
HATCH COVER DETAILS

Scale: 3" = 1'-0"



HATCH COVER LOCK & KEY

No Scale

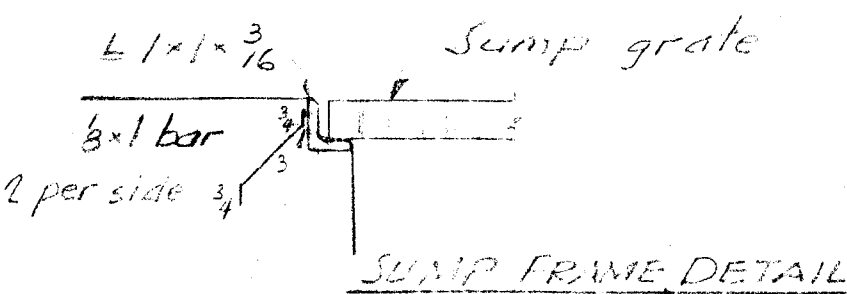


VENT MOUNTING DETAIL

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

AIR INLET DETAIL

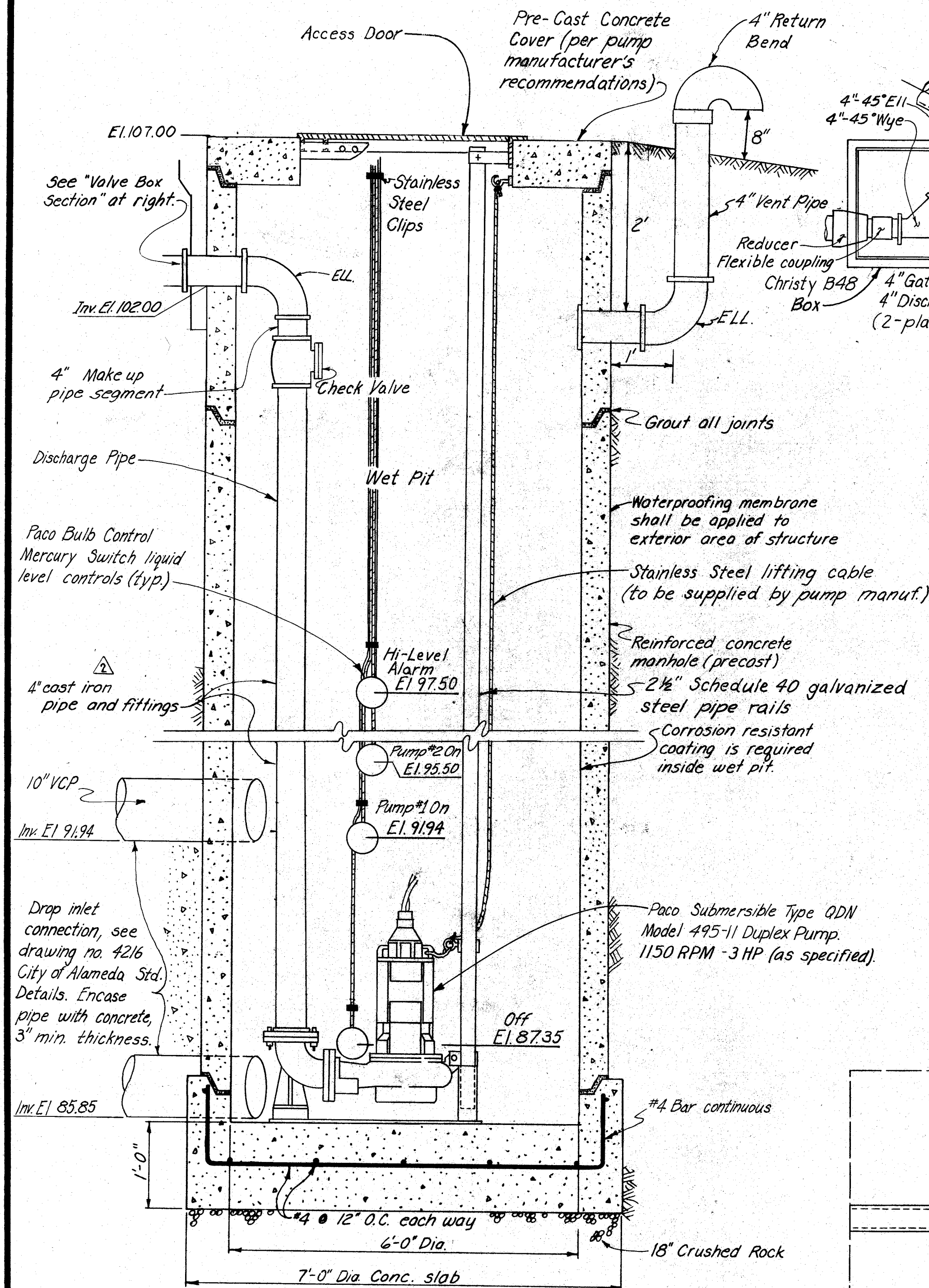
Scale: 1/2" = 1'-0"



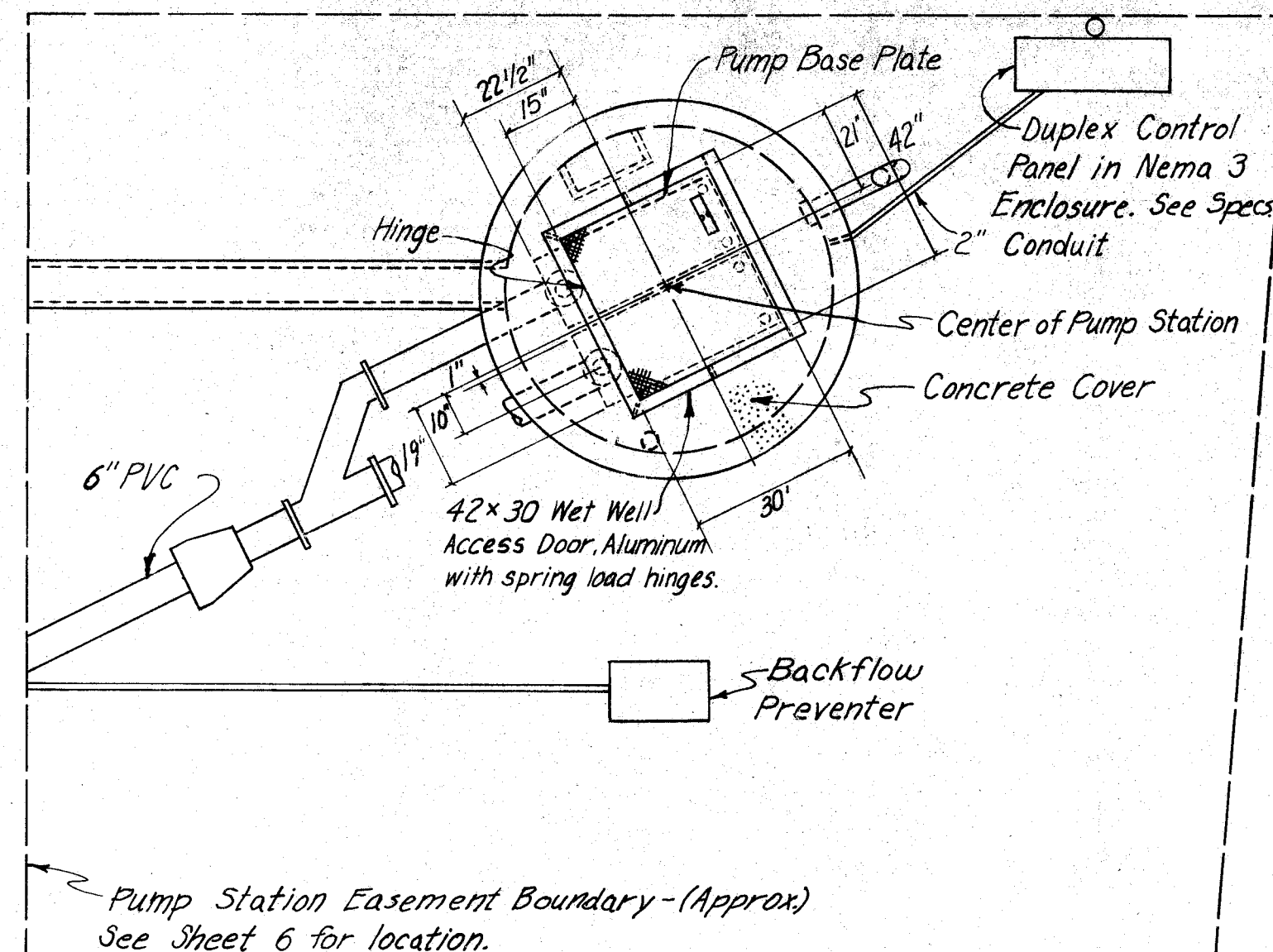
SUMP FRAME DETAIL

Approved *[Signature]* 2-4-65
City Engineer Date

HARBOR-LAND COMMUNITY DEV.			
4 th STREET SANITARY SEWER PUMPING PLANT			
NOTES AND DETAILS			
TRACT 2673 ALAMEDA, CALIF.			
SCALE	Noted	J. Y. LONG CO. ENGINEERS	
DATE	1-15-65	OAKLAND, CALIFORNIA	
DR.	WL	J. Y. Long	DWG. NO. 63127
CH.	L		A-10
CH.		R. E. NO. 5825 L. S. NO.	



PUMP STATION SECTION A-A
NOT TO SCALE

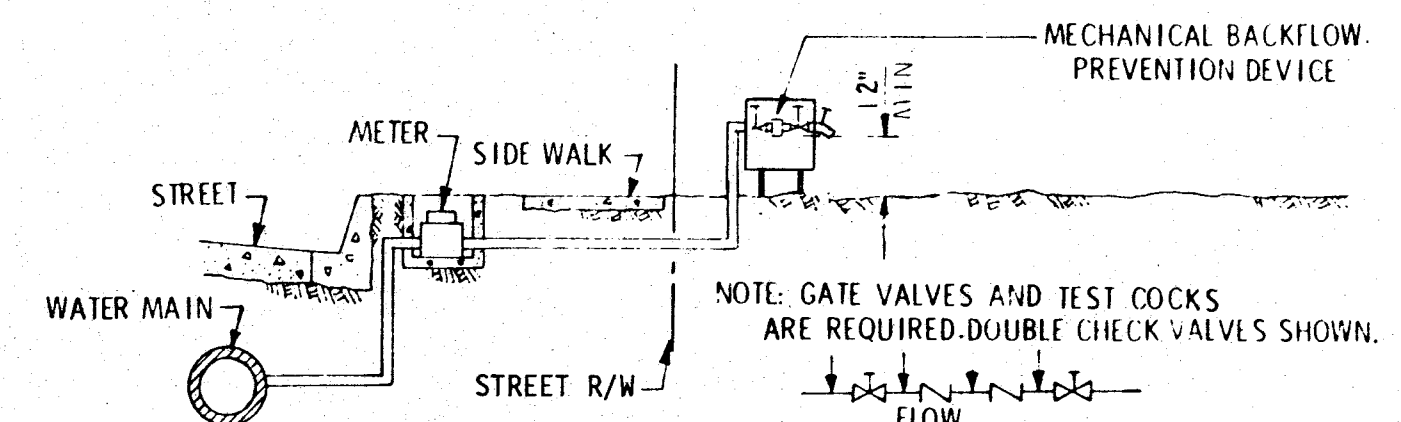


SITE PLAN WITH COVER AND HATCH DETAIL
NOT TO SCALE

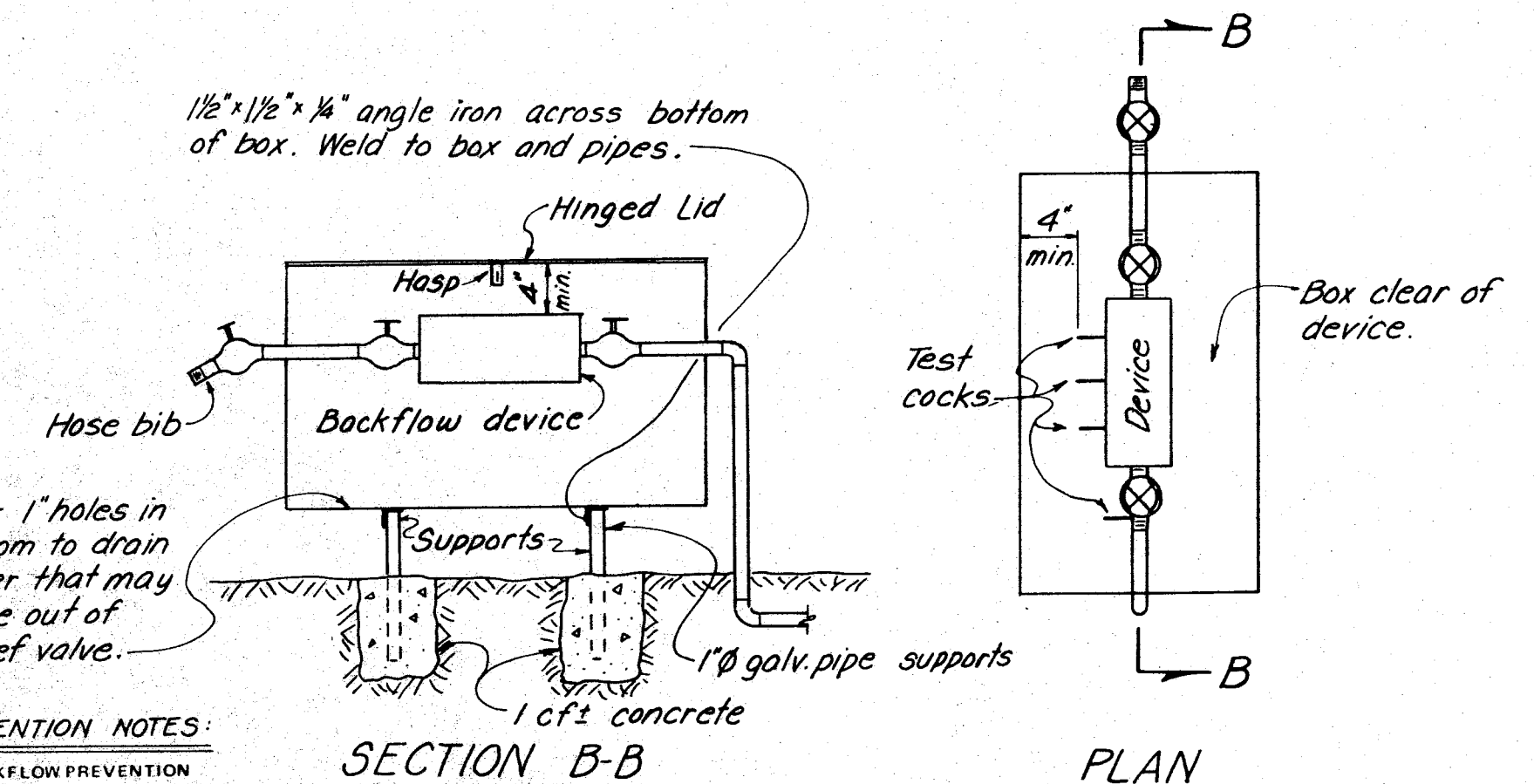
SUMP BASE DETAIL
NOT TO SCALE

GENERAL NOTES

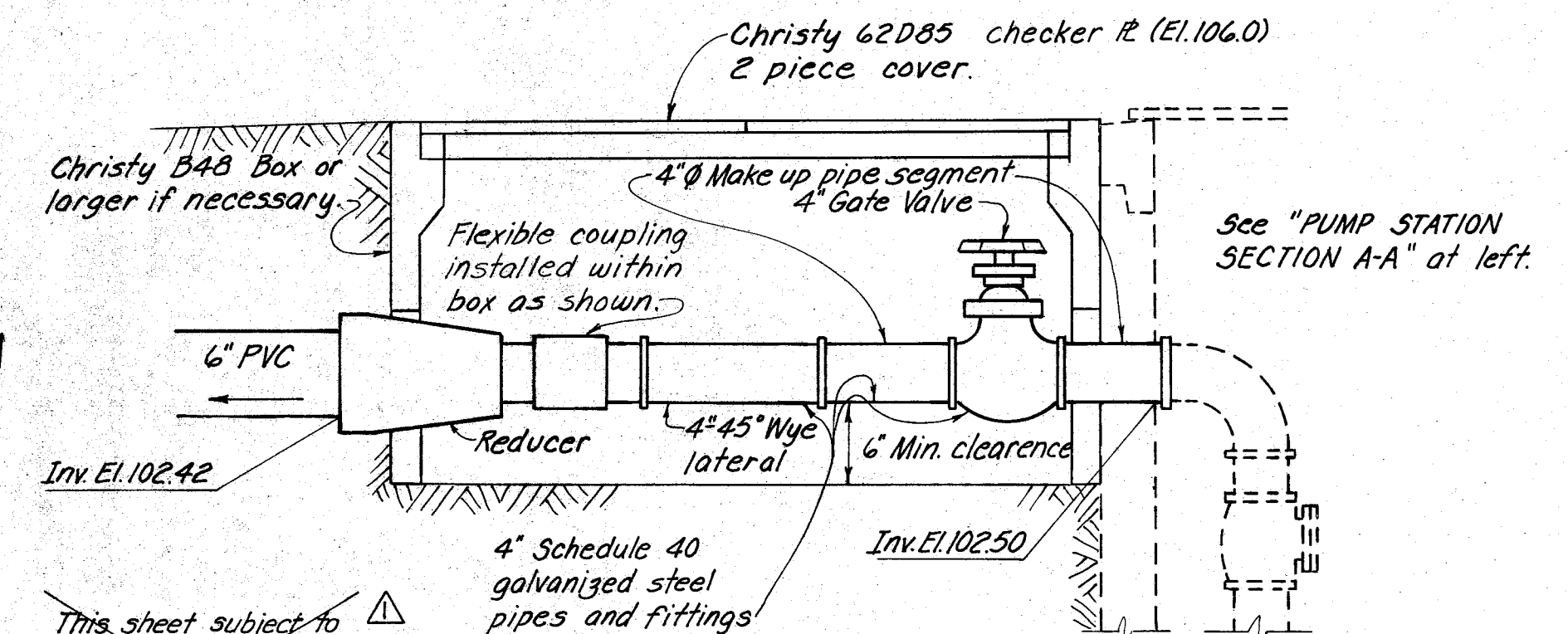
- Eight (8) copies of installation drawings shall be submitted by the Contractor for approval before commencing construction.
- The Contractor shall notify the City Engineer 24 hours prior to performing work requiring inspection. Work performed or covered without giving reasonable notice will be subject to rejection.
- All ferrous metal parts, except main sewage piping, pumps, electrical equipment and other parts which would be impractical, shall be "galvanized after"; that is, galvanizing shall be done after welding, bending, or other means of fabrication.
- All exposed concrete surfaces and all galvanized and exposed ferrous metals in the sump chamber shall be painted with one coat "Bitumastic No. 50" and one coat Kopper's Bitumastic Tank Solution.
- Sump cover shall be furnished by pump manufacturer.
- Sump cover shall be gas-tight.
- Pump station alarm to be connected to panel. The City will install the necessary Intrac 2000 alarm equipment, compatible with the City's existing alarm system, at the cost of the developer.
- Pump, controls, and appurtenances to be installed in accordance with manufacturer's recommendations.
- Locations of backflow preventer and control panel are approximate. To be determined by City Engineer in the field.
- Any electrical equipment in pump station sump shall be explosion proof.
- All work to be per N.E.C. Code & Bureau of Electricity requirements.



MECHANICAL BACKFLOW PREVENTION DEVICE



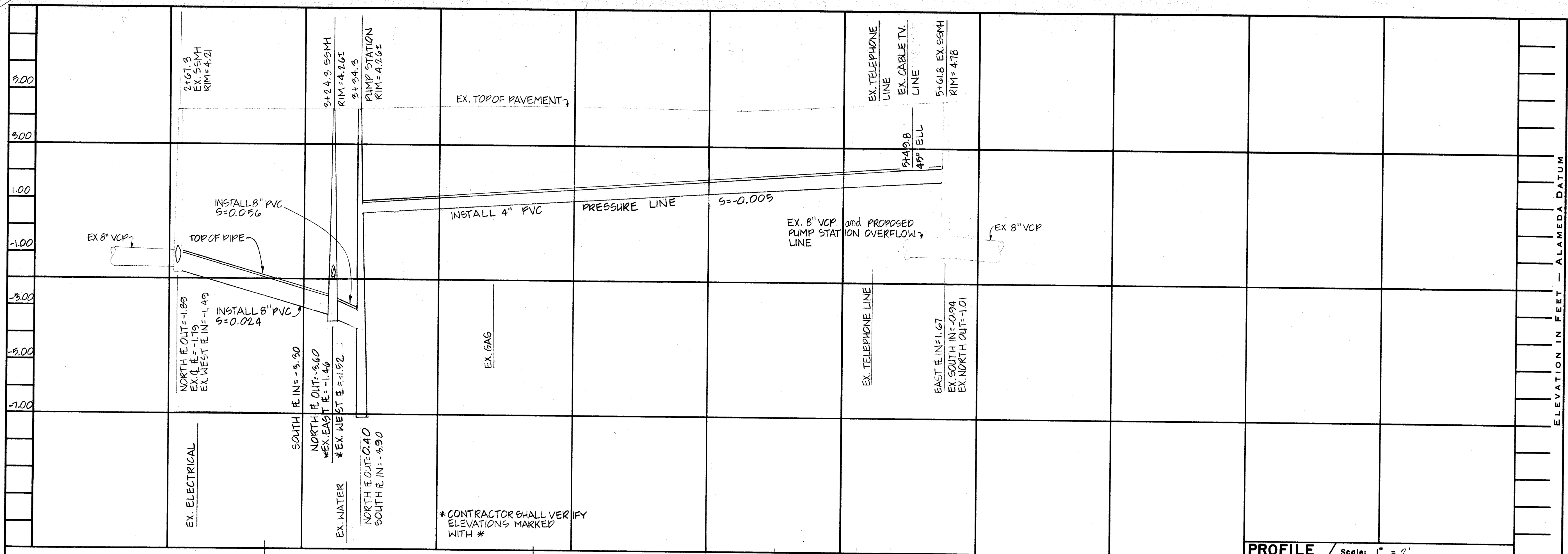
BACKFLOW PREVENTER WITH 1" HOSE BIB
NO SCALE



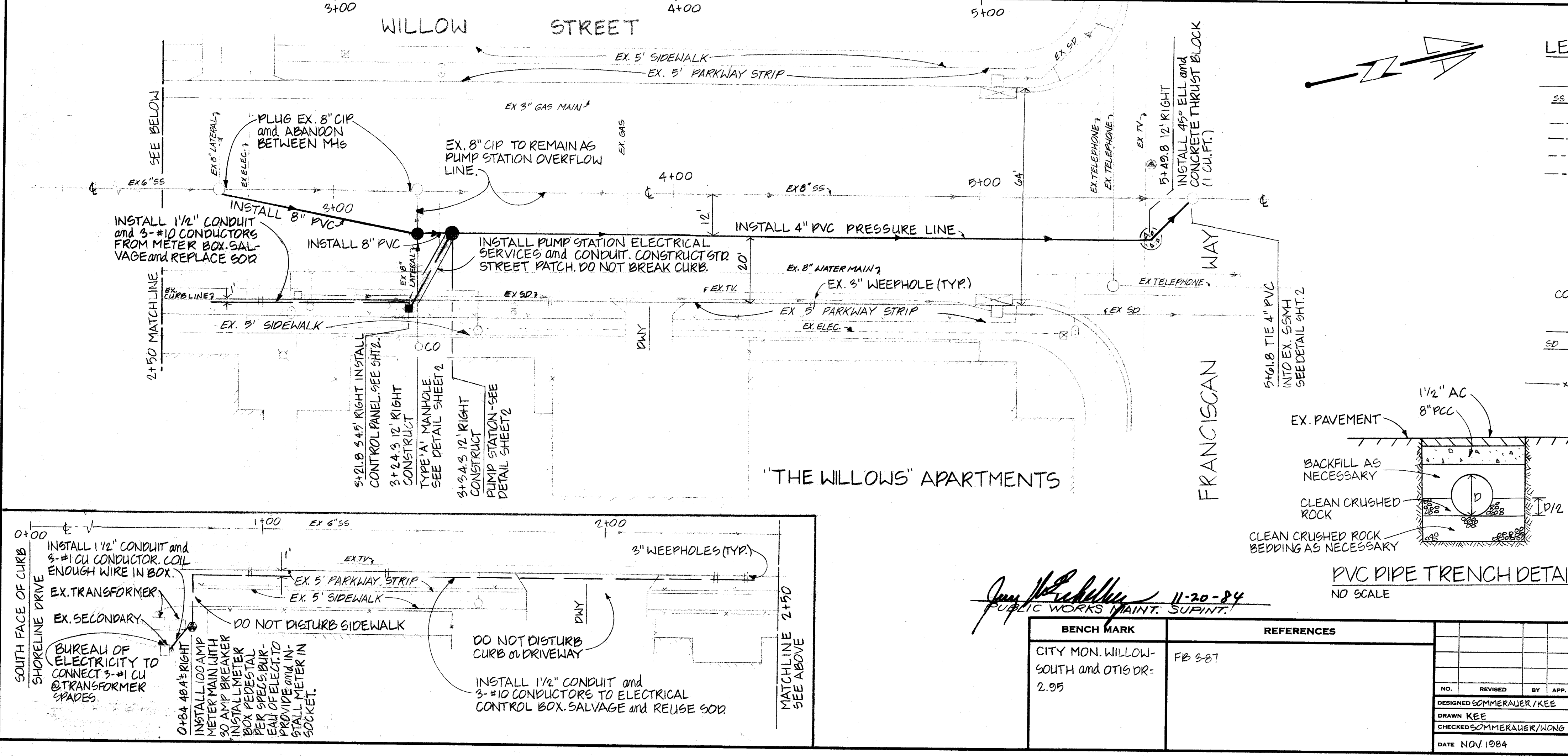
VALVE BOX SECTION
NO SCALE

APPROVED: <i>Ed Cooper</i>		12/27/85	D.K.	Revised Pump Station PR #2	TDE
HARBOR BAY ISLE ASSOCIATES 1-24-81		11/28/85	City	Plan Revision #1	
B. of E. <i>Ed Cooper</i>	Revision	Date	By	Description	City Engineer
Pac. Tel. <i>Ed Cooper</i>	APPROVED: <i>R. J. G. Smith</i>				
P.G. & E. <i>Ed Cooper</i>	R.C.E. No. 10879				
E.B.M.U.D. <i>Ed Cooper</i>	Checked: PR				
Fire Dept. <i>Ed Cooper</i>	Drawn: TT				
ACTING City Engr. <i>Ed Cooper</i>	Designed: LG				
	Scale: NONE				
	Date: JAN 1981				
		SANITARY SEWER SEWAGE PUMPING STATION TRACT 4513 ALAMEDA CALIFORNIA BISSELL & KARN, INC. CIVIL ENGINEERS 2551 MERCED STREET SAN LEANDRO, CA. 94577 (415) 483-2170 100 N. MILPITAS BLVD. MILPITAS, CA. 95035 (408) 263-7615 Job No. 16972 Sheet 10 of 15			

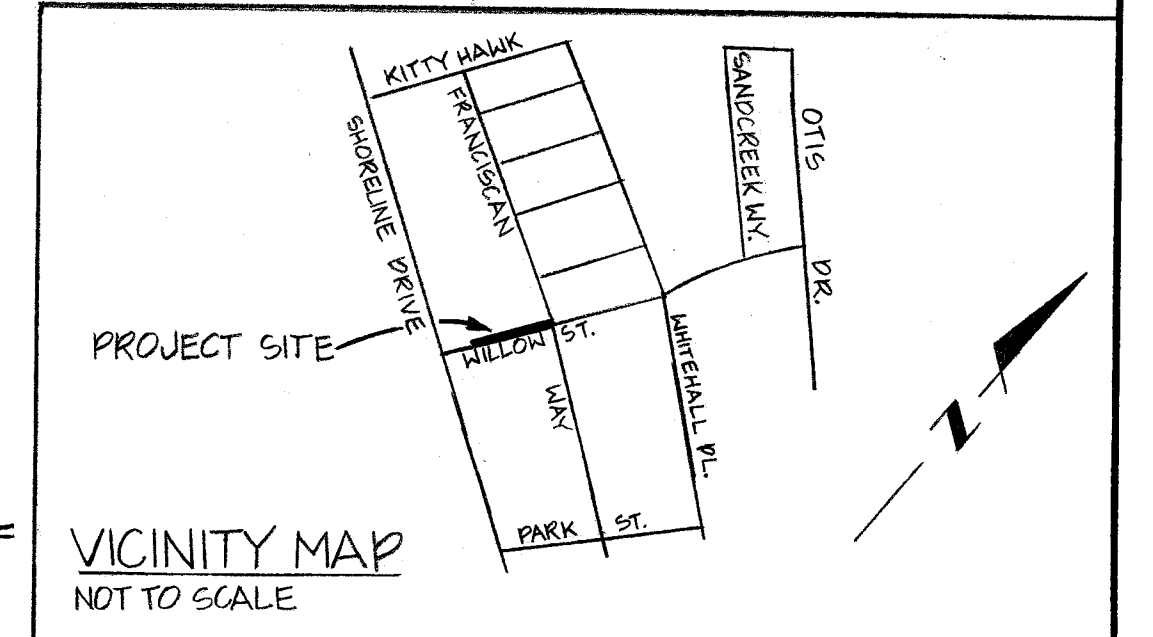
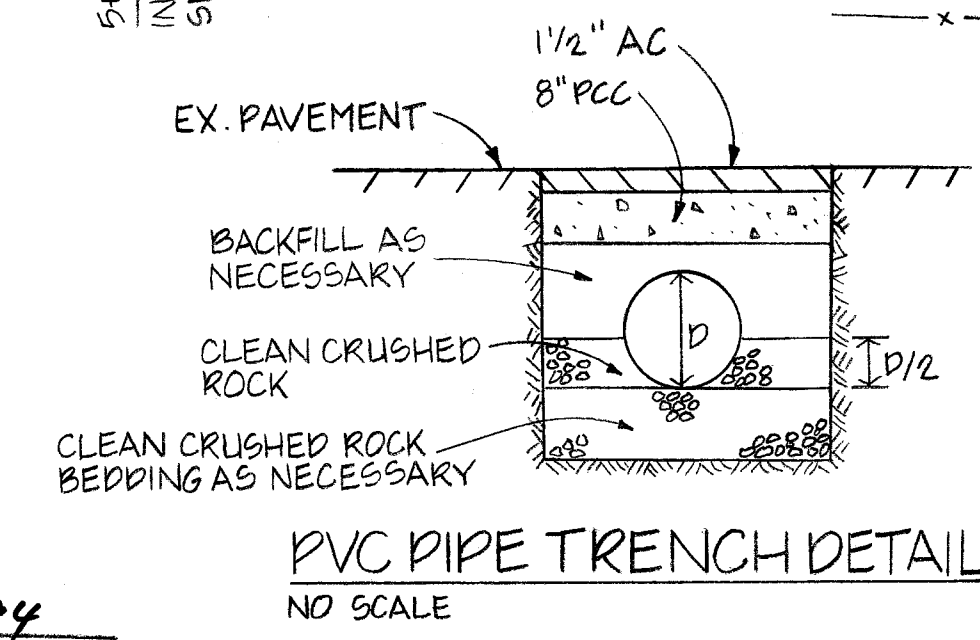
RECEIVED
APR 7 1986
ENGINEER DEPT. 1985 207
CITY OF ALAMEDA



PROFILE / Scale: 1" = 2'
PLAN / Scale: 1" = 20'



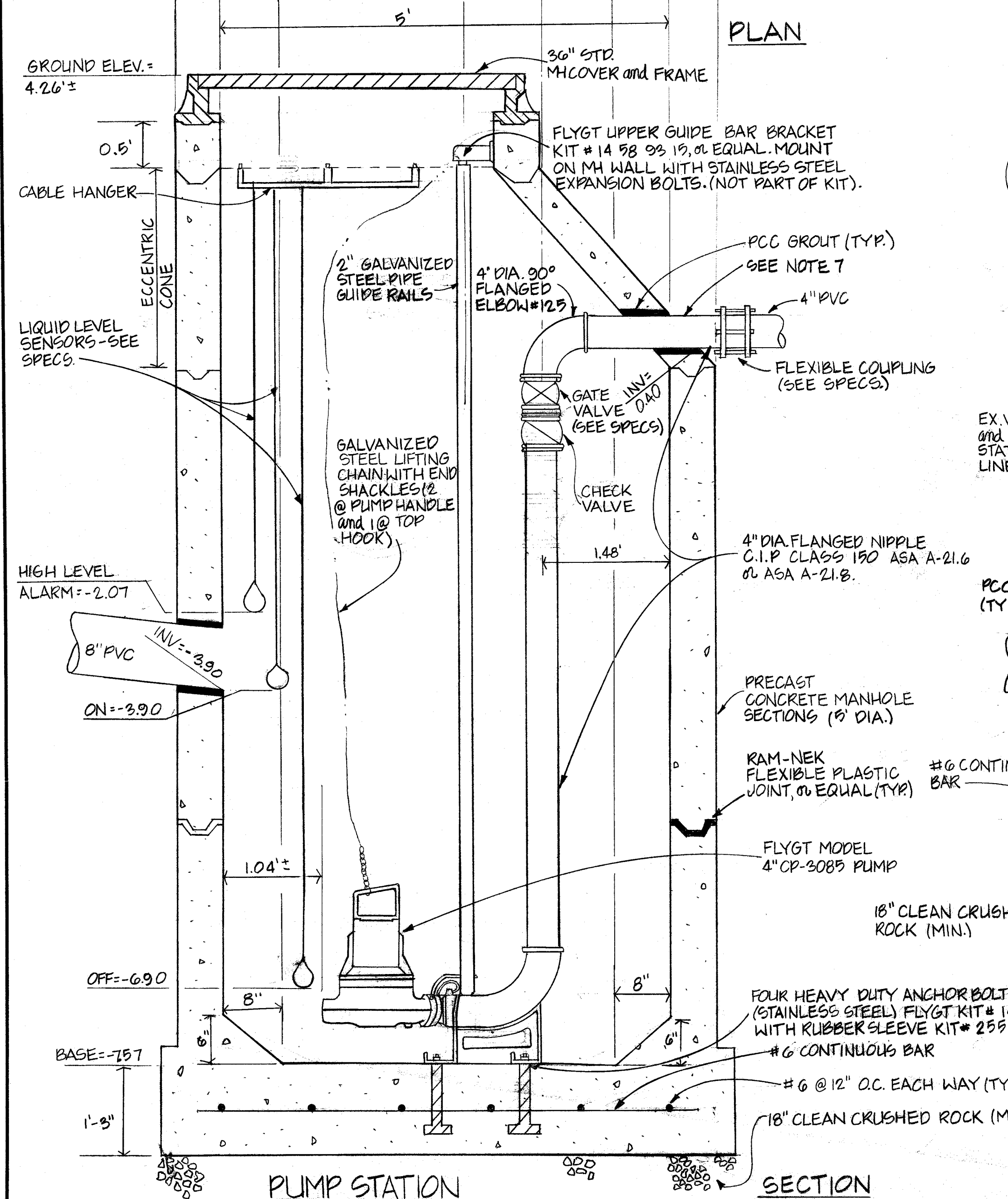
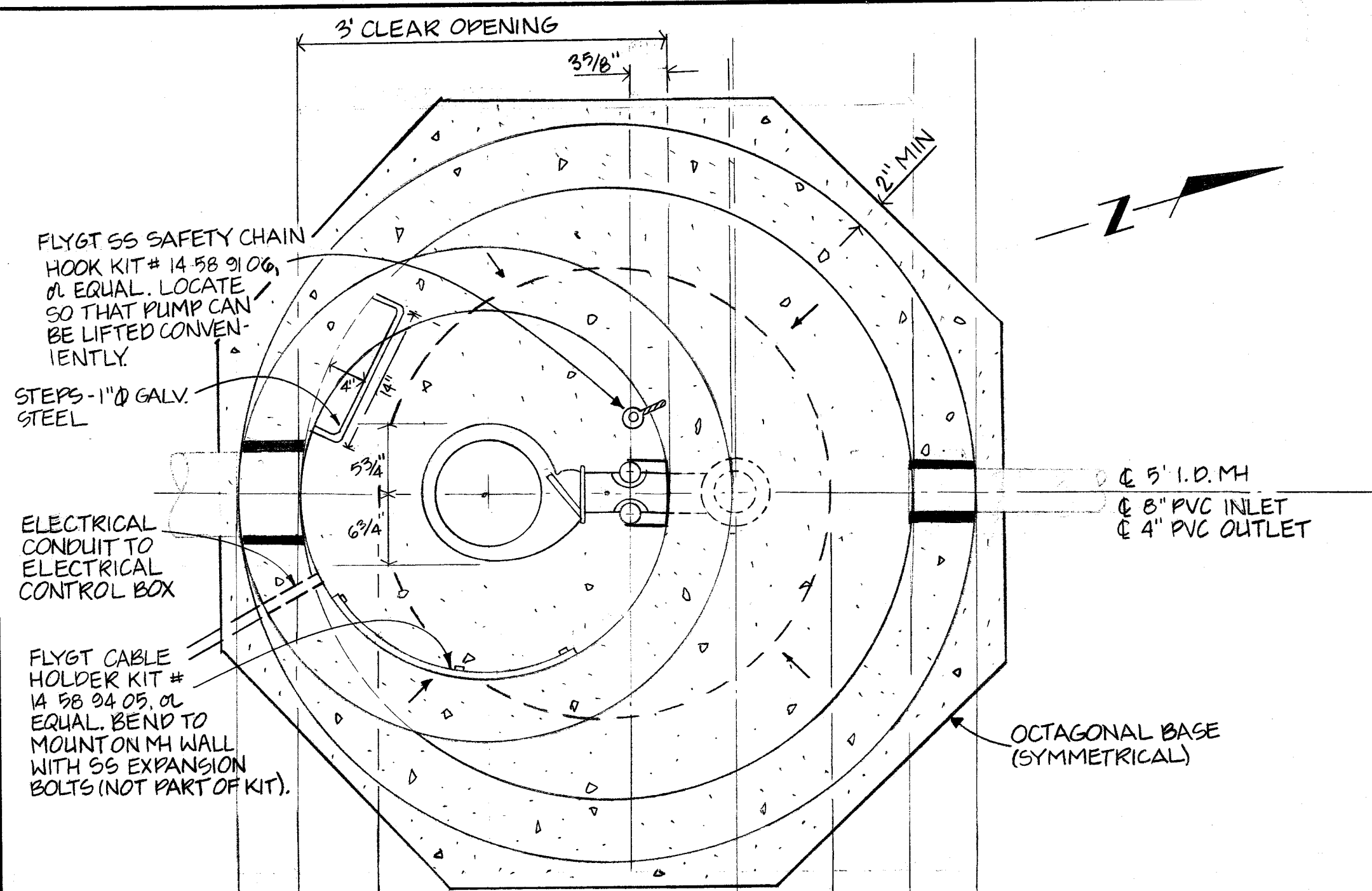
- LEGEND**
- CABLE TELEVISION BOX
 - CABLE TELEVISION LINE
 - SS SANITARY SEWER LINE
 - WATER MAIN
 - GAS MAIN
 - ELECTRICAL CONDUIT
 - PROPERTY LINE
 - ☒ ELECTRICAL JUNCTION BOX
 - ⊗ WATER METER
 - HANDHOLE
 - MANHOLE
 - ⊕ MONUMENT
 - ⊕ WATER VALVE
 - CO CLEANOUT
 - ⊗ FIRE HYDRANT
 - TELEPHONE LINE
 - SD STORM DRAIN LINE
 - STORM DRAIN INLET
 - WROUGHT IRON FENCE
 - ⊕ TREE
 - ⊕ SPRINKLER HEAD
 - DRIVEWAY



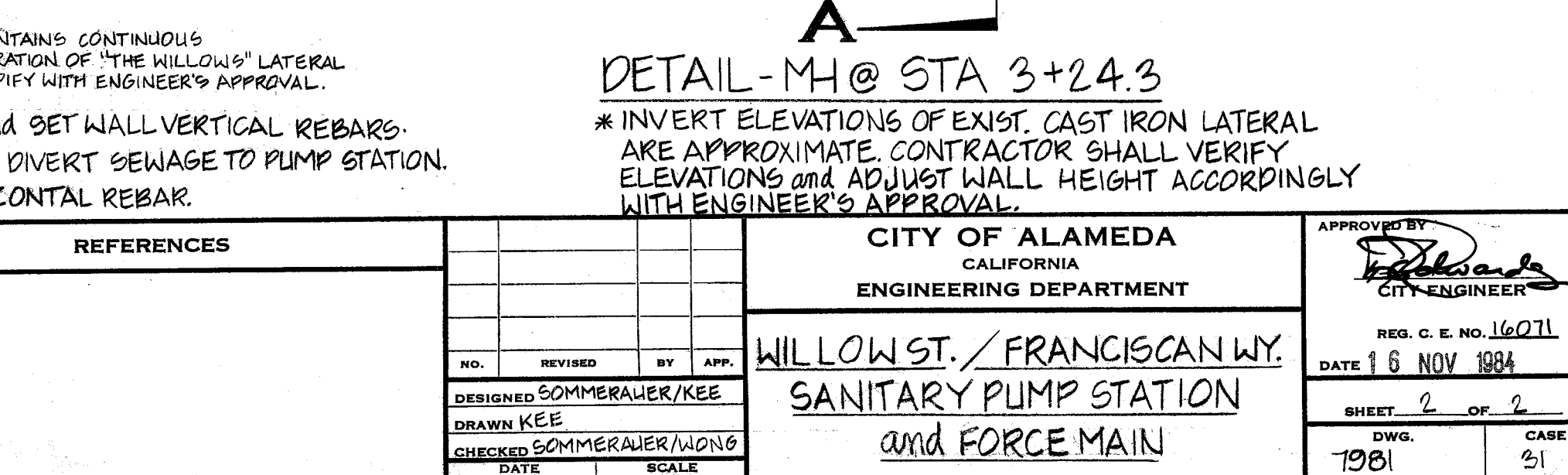
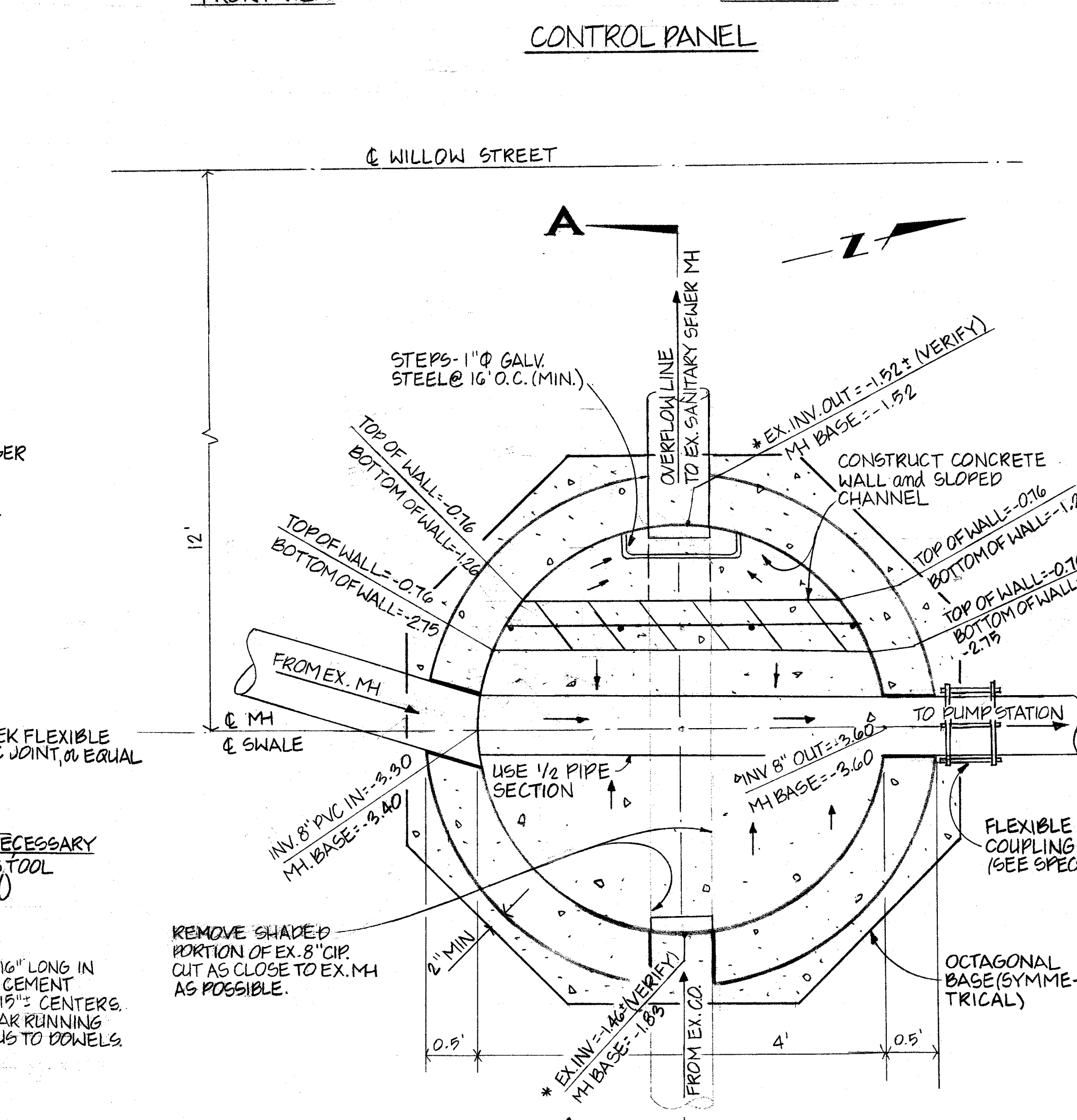
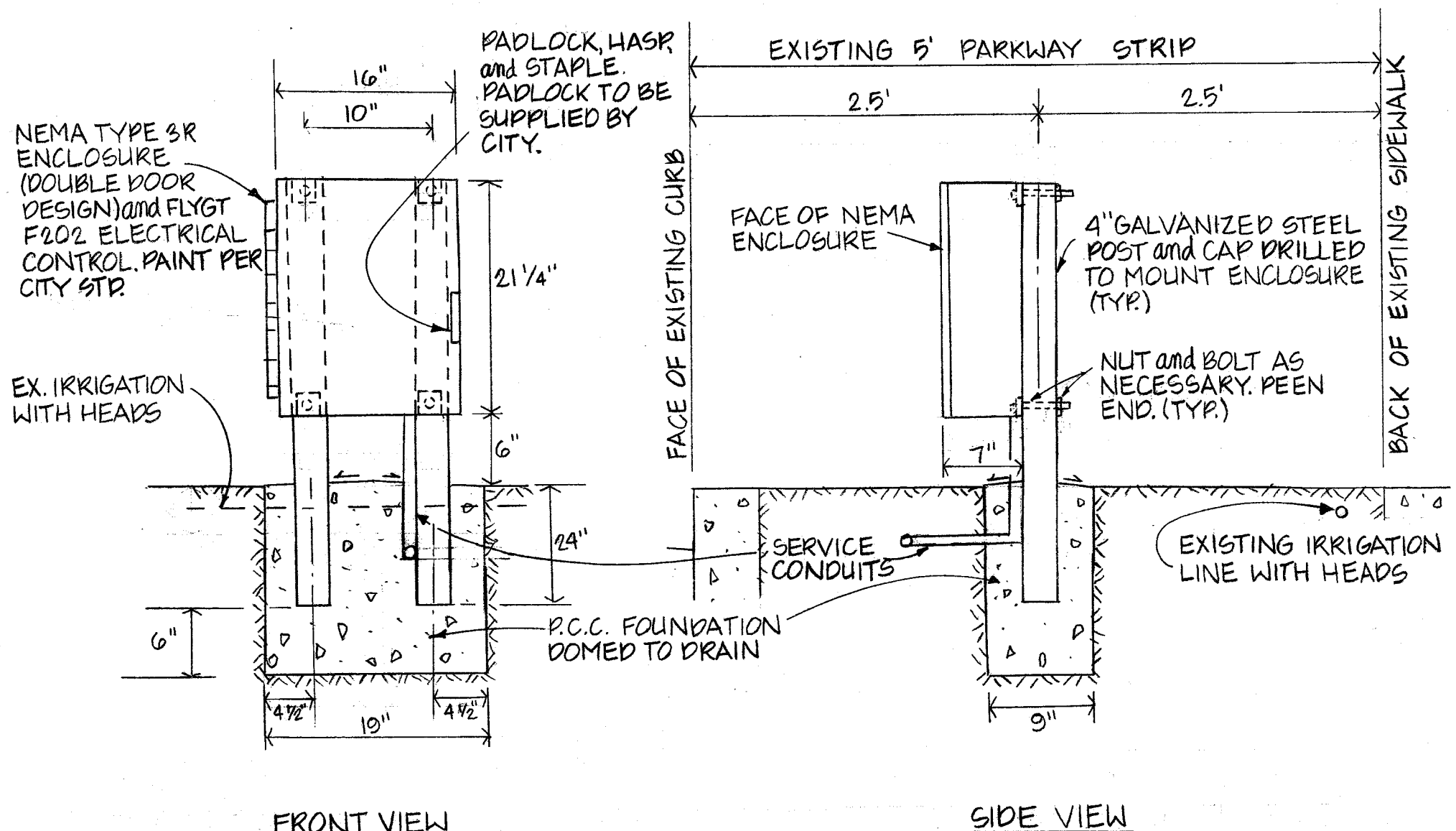
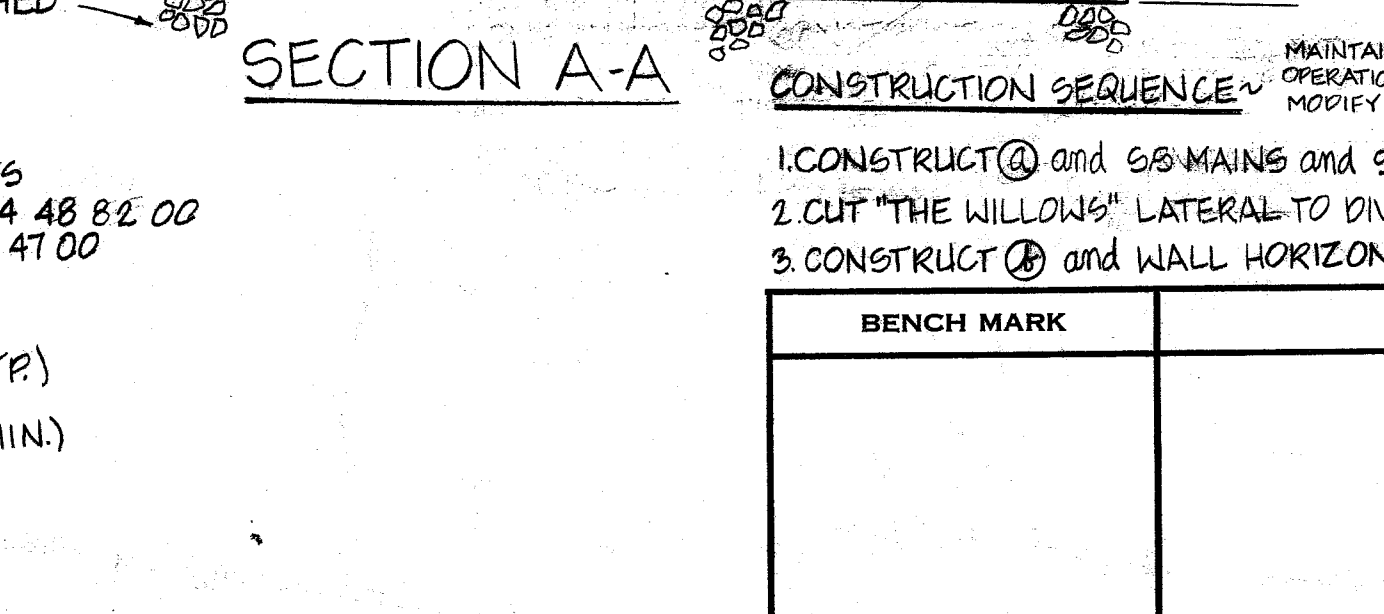
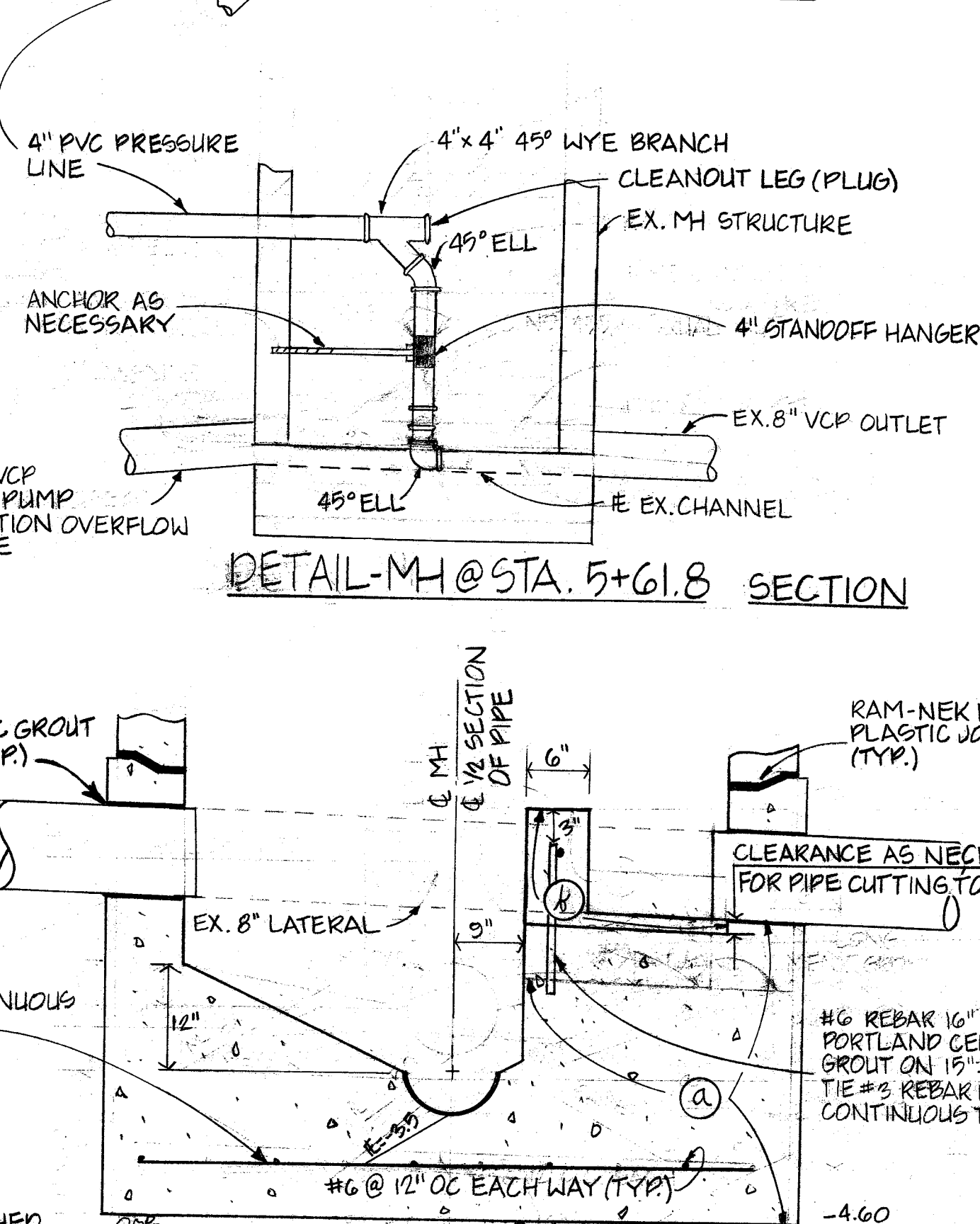
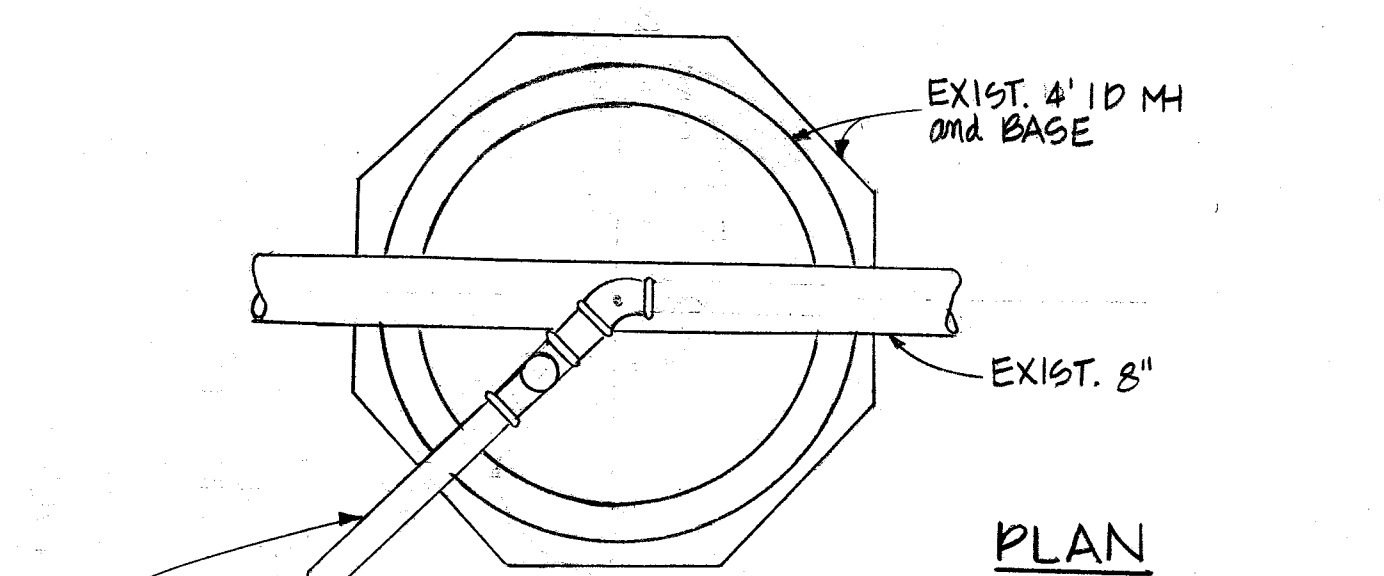
John J. Schell 11-20-84
 PUBLIC WORKS MAINT. SUPERINT.

BENCH MARK	REFERENCES	NO.	REVISED	BY	APP.
CITY MON. WILLOW-SOUTH and OTIS DR: 2.95	FB 2-87				
DESIGNED SOMMERHAUER/KEE					
DRAWN KEE					
CHECKED SOMMERHAUER/HONG					
DATE NOV 1984					

CITY OF ALAMEDA CALIFORNIA ENGINEERING DEPARTMENT		APPROVED BY <i>Edward J. ...</i> REG. C. E. NO. 16071 DATE 16 NOV 1984
WILLOW ST. / FRANCISCAN WY. SANITARY PUMP STATION and FORCE MAIN		SHEET 1 OF 2 DWG. CASE 7981 31



- NOTES**
1. PUMP MOTOR SHALL BE 3 PHASE, 2 HP, 230 VOLTAGE.
 2. ALL EXPOSED CONCRETE SURFACES and EXPOSED FERROUS METALS SHALL BE PAINTED WITH ONE COAT "BITUMASTIC NO. 50" and ONE COAT KAPPER'S BITUMASTIC TANK SOLUTION, or EQUAL.
 3. ALL FERROUS METAL PARTS, EXCEPT PUMP, ELECTRICAL EQUIPMENT, and OTHER PARTS WHICH WOULD BE IMPRACTICAL, SHALL BE GALVANIZED AFTER WELDING, BENDING, or OTHER FABRICATION.
 4. PUMP STATION ALARM SHALL BE CONNECTED TO PACIFIC BELL TELEPHONE OUTLET TO POLICE DEPARTMENT.
 5. STEPS SHALL BE INSTALLED @ 16" O.C. (MAXIMUM).
 6. SS DESIGNATES STAINLESS STEEL.
 7. DISCHARGE LINE LOCATION DEPENDS ON FINISHED CONE DIMENSIONS and MAY NOT BE AS SHOWN. MAINTAIN INVERT ELEVATION.



- CONSTRUCTION SEQUENCE:**
1. CONSTRUCT (A) and (B) MAINS and SET WALL VERTICAL REBARS.
 2. CUT "THE WILLOWS" LATERAL TO DIVERT SEWAGE TO PUMP STATION.
 3. CONSTRUCT (C) and WALL HORIZONTAL REBAR.

BENCH MARK	REFERENCES

NO.	REVISED	BY	APP.
DESIGNED	SOMMERHAUER/KEE		
DRAWN	KEE		
CHECKED	SOMMERHAUER/WONG		
DATE	SEPT 1984	SCALE	NONE

CITY OF ALAMEDA CALIFORNIA ENGINEERING DEPARTMENT
WILLOW ST. / FRANCISCAN WY. SANITARY PUMP STATION and FORCE MAIN

APPROVED BY CITY ENGINEER
REG. C. E. NO. 160711
DATE 16 NOV 1984
SHEET 2 OF 2
DWG. 7981
CASE 31