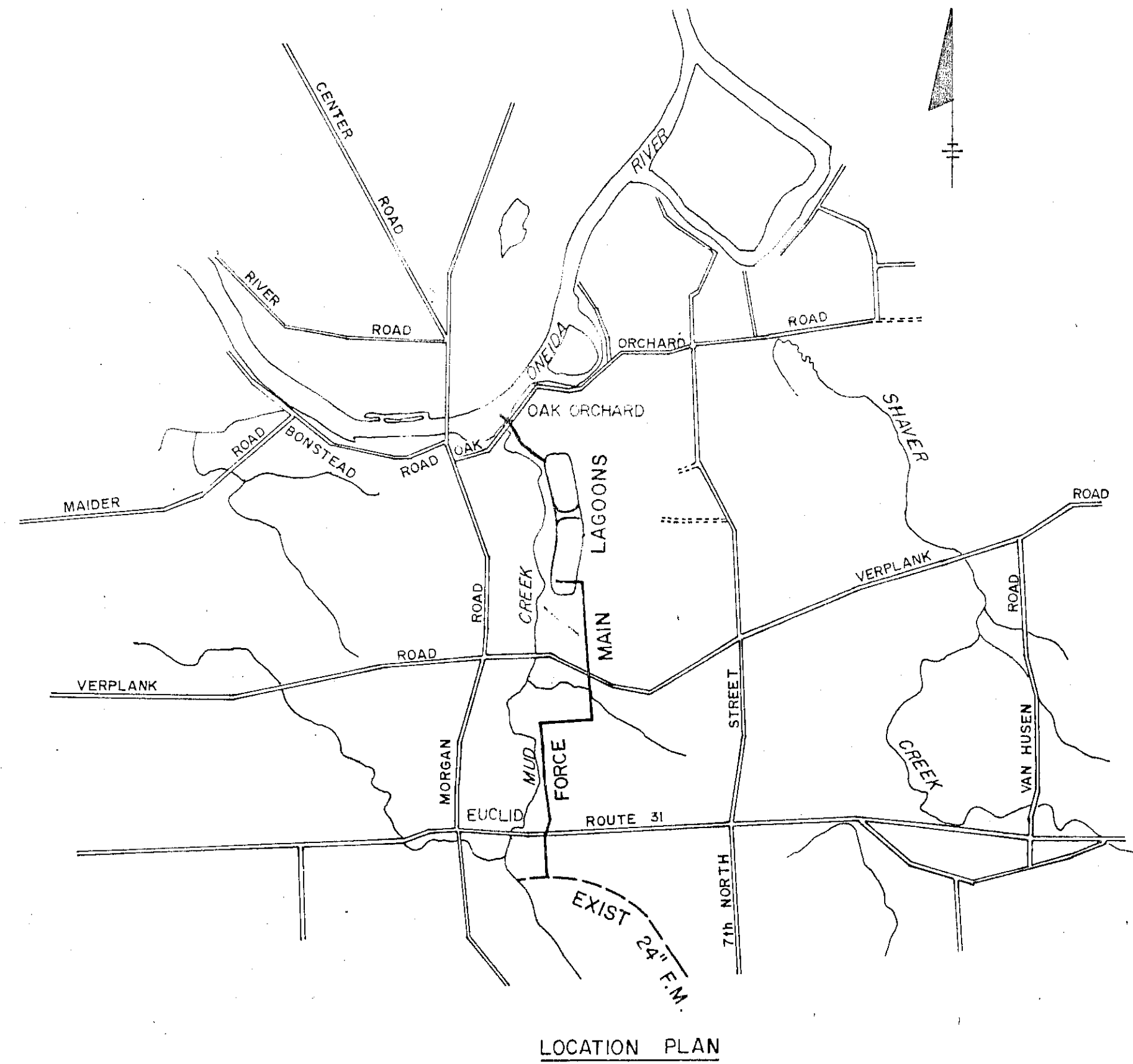


Contract Drawings

CLAY SANITARY DISTRICT



OAK ORCHARD FORCE MAIN & EFFLUENT SEWER CONTRACT IA

COUNTY OF ONONDAGA, NEW YORK
DEPARTMENT OF PUBLIC WORKS
DIVISION OF DRAINAGE & SANITATION

JOHN H. MULROY - COUNTY EXECUTIVE
JOHN J. HENNIGAN JR - DEPUTY COMMISSIONER

APPROVED BY ONONDAGA COUNTY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF DRAINAGE SANITATION AND WATER SUPPLY

John J. Hennigan Jr.
DEPUTY COMMISSIONER

O'BRIEN & GERE
ENGINEERS, INC.

John J. Hennigan

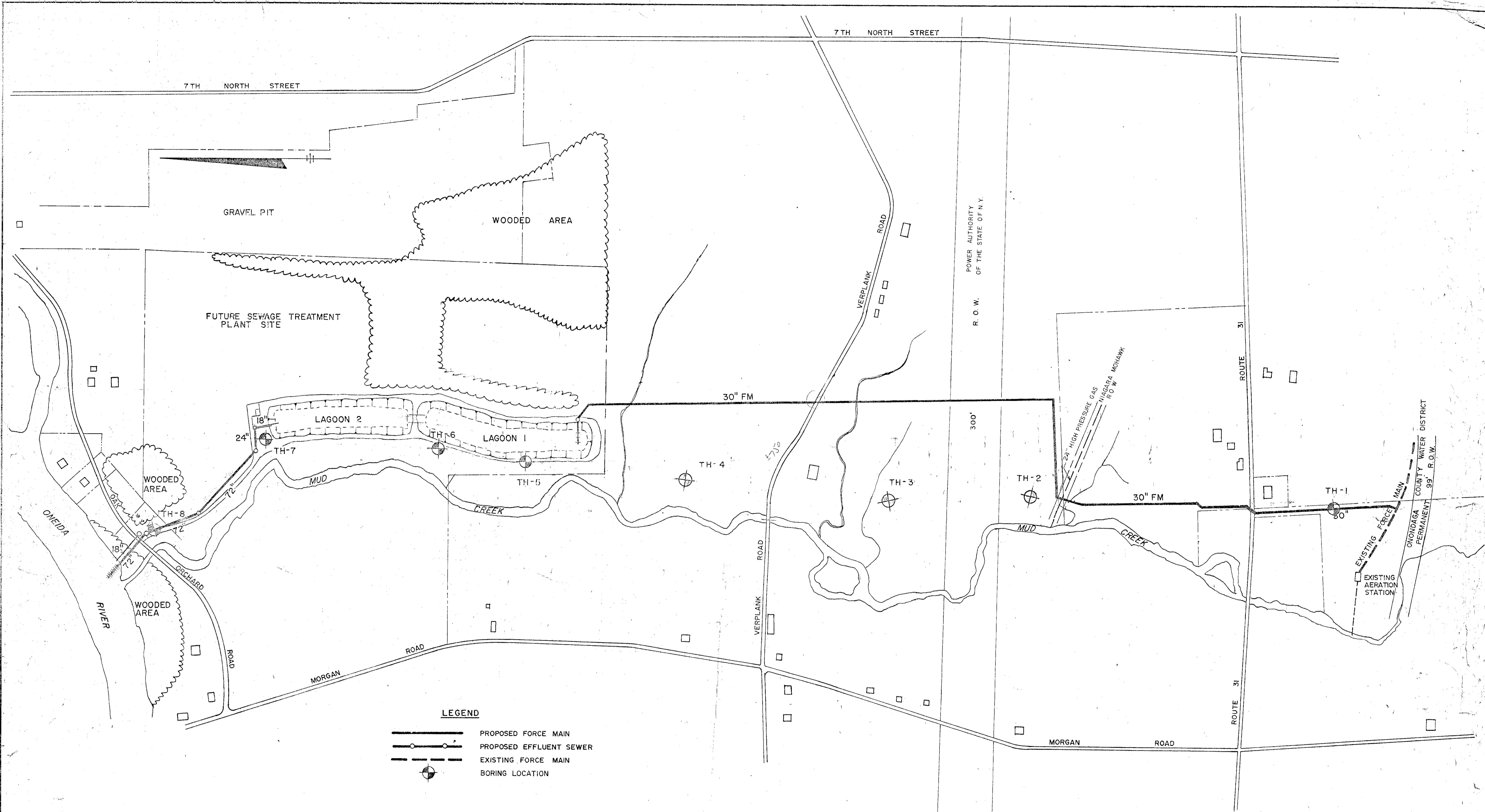
INDEX TO DRAWINGS

1. GENERAL PLAN
2. PLAN & PROFILE
3. PLAN & PROFILE
4. PLAN & PROFILE
5. PLAN & PROFILE
- ~~6. PLAN & PROFILE~~
- ~~7. PLAN & PROFILE~~
- ~~8. CROSS SECTIONS~~
9. MISCELLANEOUS DETAILS
10. MISCELLANEOUS DETAILS
11. MISCELLANEOUS DETAILS
19. PLAN & PROFILE
20. PLAN & PROFILE
21. MISCELLANEOUS DETAILS
22. MISCELLANEOUS DETAILS
23. PLAN & SECTIONS
24. PLANS & ELEVATIONS
25. SECTIONS & DETAILS
26. POWER & LIGHTING PLAN
27. SCHEDULES & ONE LINE DIAGRAMS
28. OUTSIDE PIPING, GRADING & DRAINAGE

RECORD DRAWINGS
To the best of our knowledge, information and belief, these record drawings substantially represent the project as constructed.

DATE: 3/1/73
BY: *[Signature]*

115.216



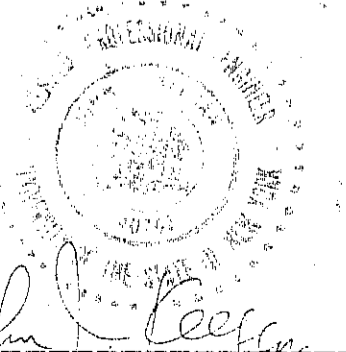
LEGEND

- PROPOSED FORCE MAIN
- PROPOSED EFFLUENT SEWER
- EXISTING FORCE MAIN
- BORING LOCATION

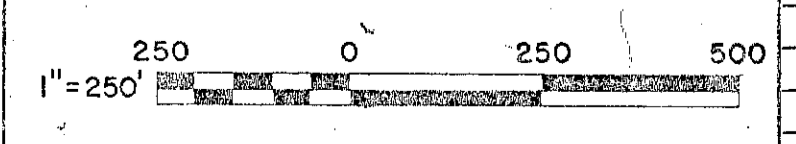
RECORD DRAWINGS
 To the best of our knowledge, information and belief, these record drawings substantially represent the project as constructed.

INSPECTED BY: *[Signature]* DATE: 2/1/85
 MADE BY: *[Signature]* DATE: 2/1/85
 CHECKED BY: *[Signature]* DATE: 2/1/85

O'BRIEN & GERE ENGINEERS, INC.
[Signature]



In charge of <i>[Signature]</i>	NO.	DATE	REVISION	INIT.
Designed by <i>WJM</i> Checked by <i>WJM</i>				
Made by <i>GPX</i>				

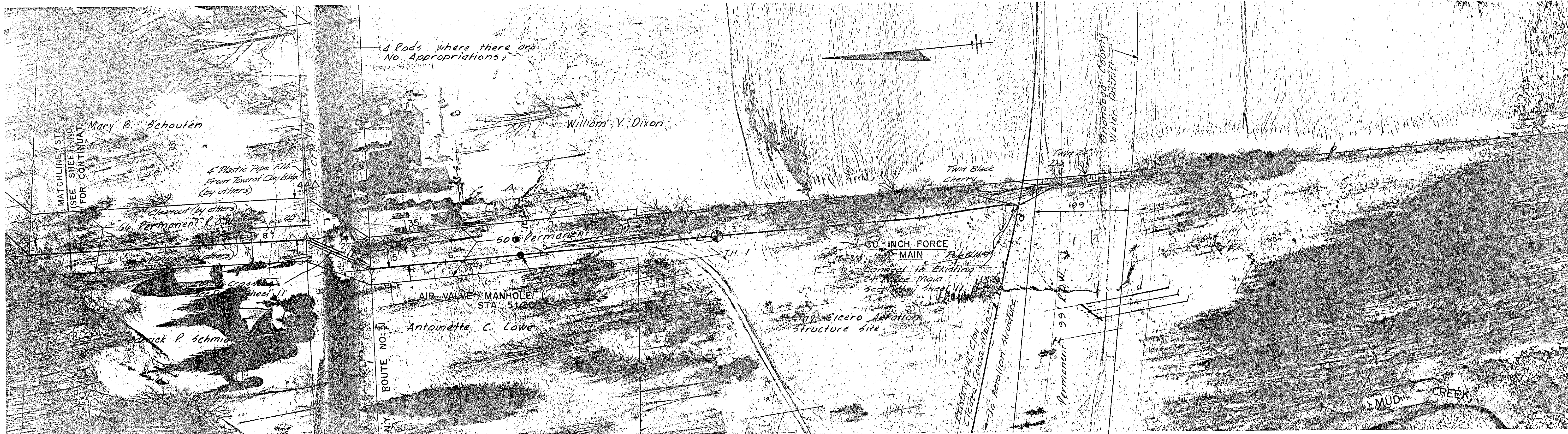


O'BRIEN & GERE ENGINEERS, INC.
 Syracuse, New York

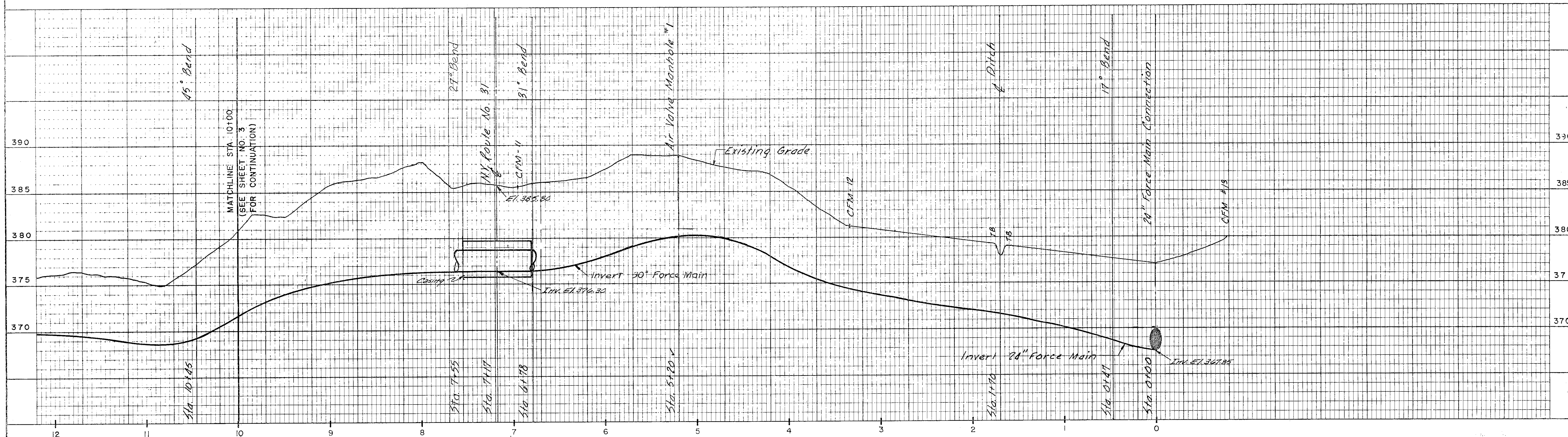
CLAY SANITARY DISTRICT
 OAK ORCHARD FORCE MAIN & EFFLUENT SEWER

GENERAL PLAN

FILE NO.
 115.216-02F
 DATE
 NOV. 6, 1972



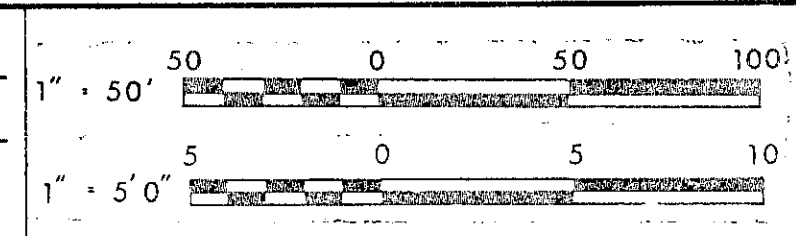
PLAN
SCALE 1"=50'



PROFILE
SCALE: HORIZONTAL 1"=50'
VERTICAL 1"=5'

399-A-B-C
11/20
11/25
2/2/75

In charge of *[Signature]*
Designed by _____ Checked by _____
Made by _____



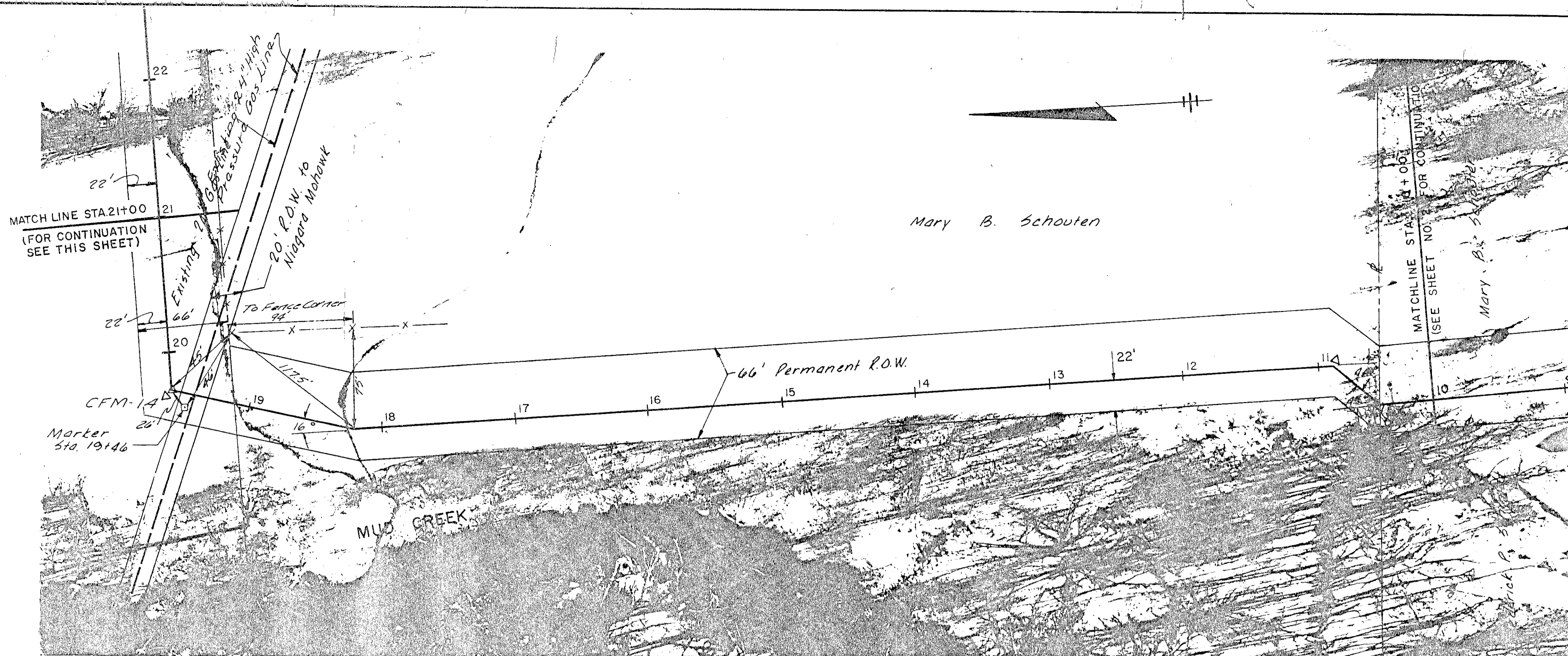
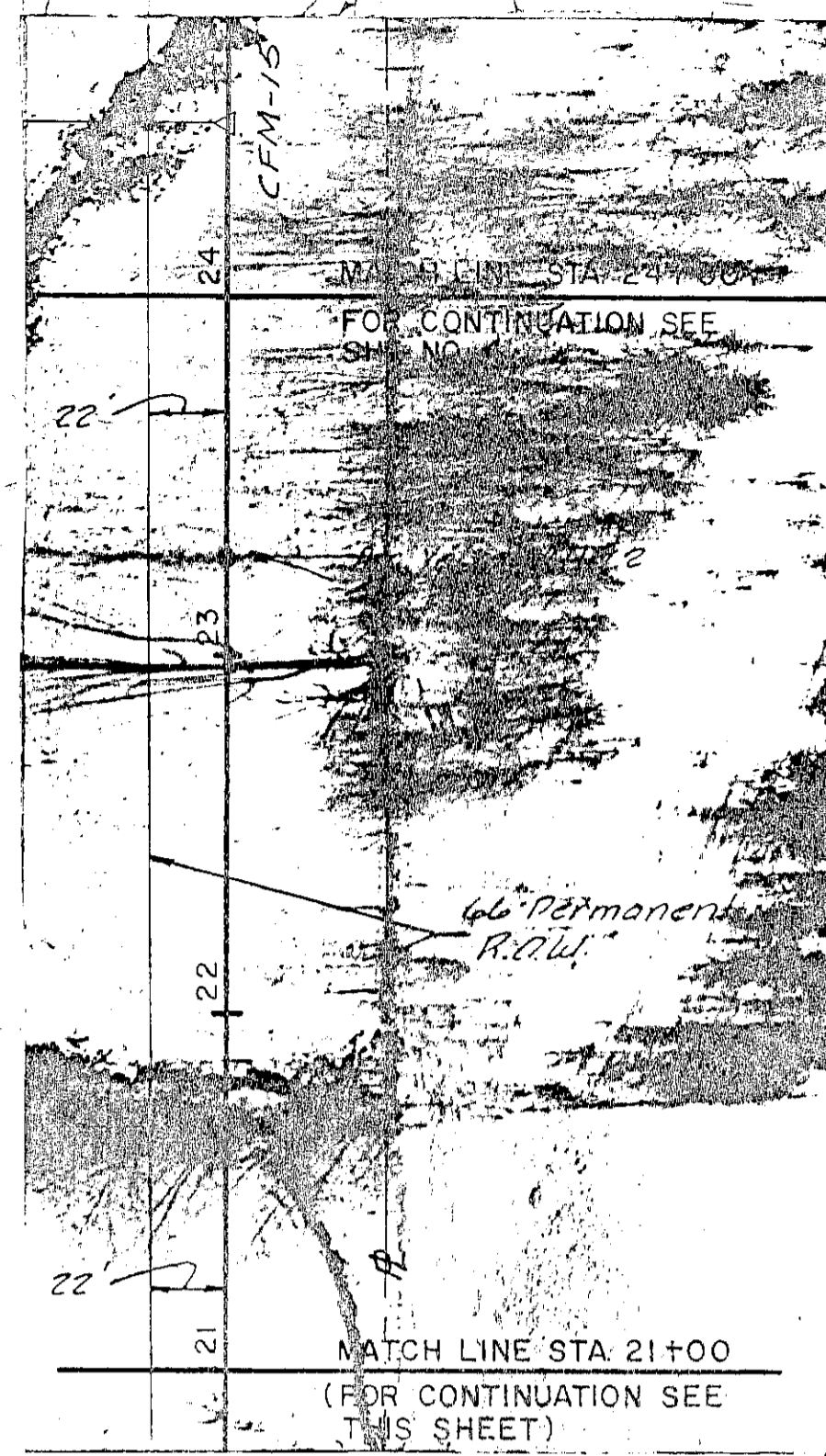
NO.	DATE	REVISION	INIT.
1	5/11/75	Revised Plan	[Signature]

O'BRIEN & GERE
ENGINEERS, INC.
Syracuse, New York

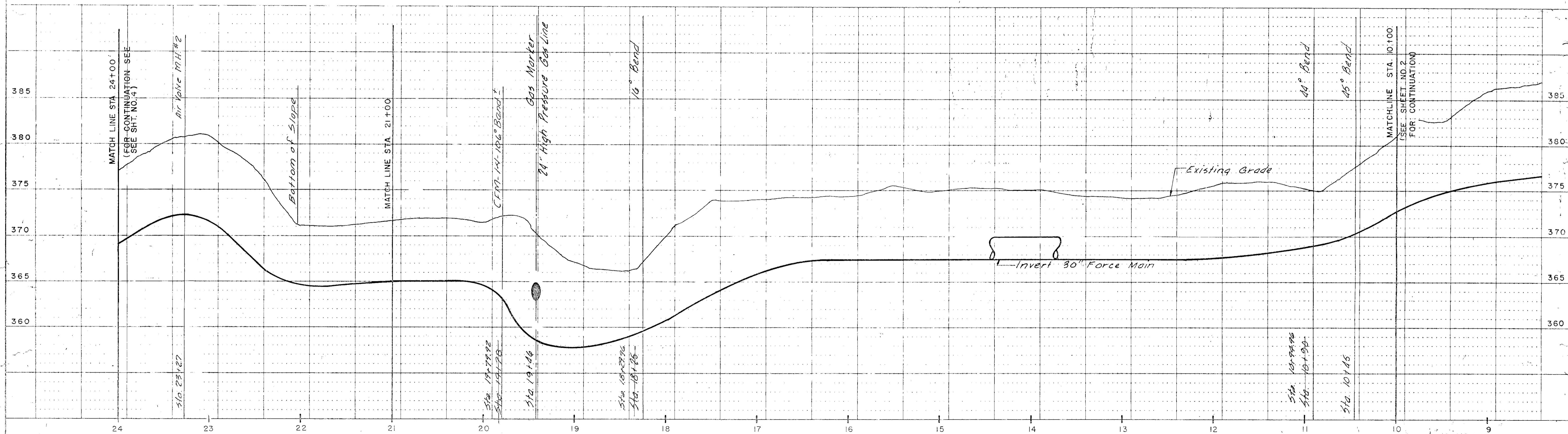
CLAY SANITARY DISTRICT
OAK ORCHARD FORCE
MAIN & EFFLUENT SEWER

FORCE MAIN
PLAN & PROFILE

FILE NO. 115.216-03F	2
DATE NOV. 6, 1972	



PLAN
SCALE 1" = 50'



PROFILE
SCALE: HORIZONTAL 1" = 50'
VERTICAL 1" = 5'

In charge of _____
Designed by W.J.L. Checked by W.J.L.
Made by _____



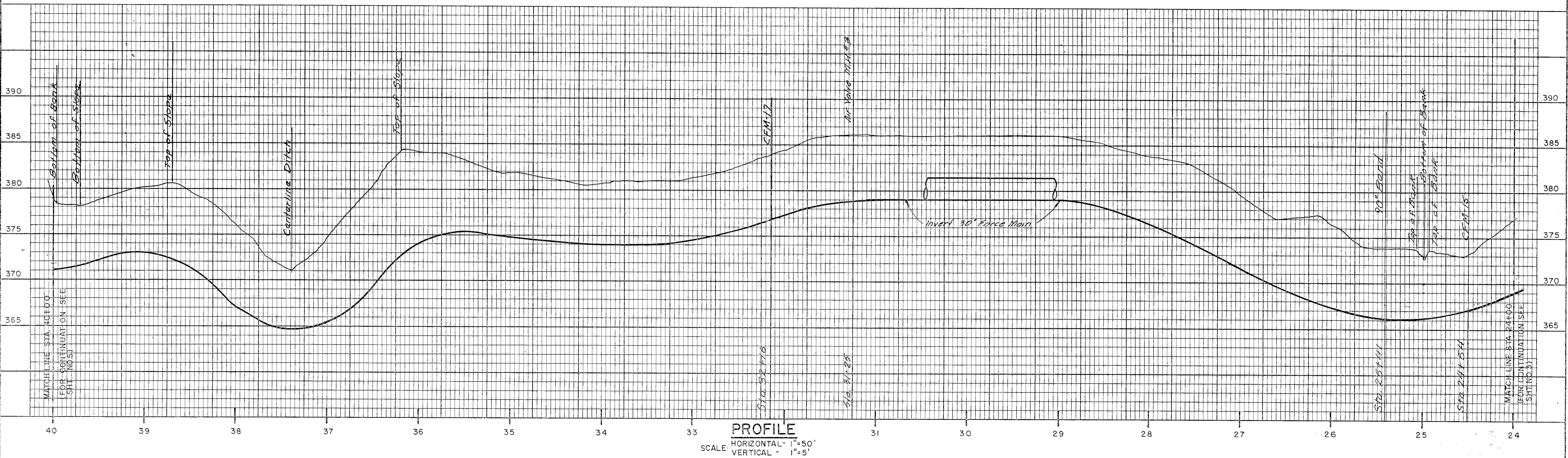
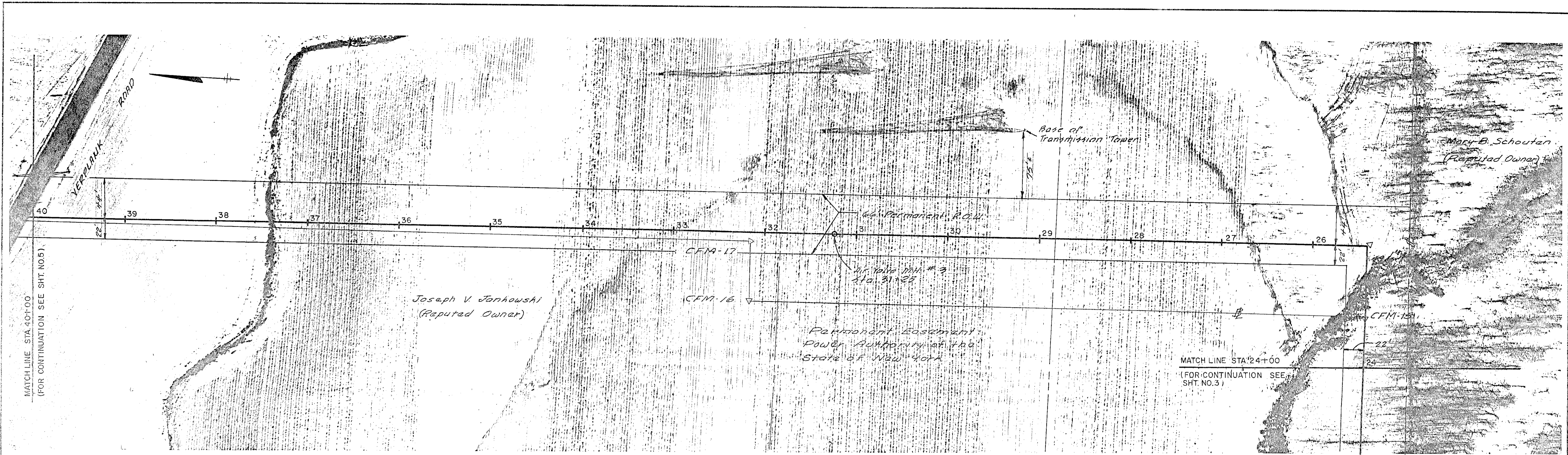
NO.	DATE	REVISION	INIT.
3/2/73		Changed Route of Pipe	RMS

O'BRIEN & GERE
ENGINEERS, INC.
Syracuse, New York

CLAY SANITARY DISTRICT
OAK ORCHARD FORCE
MAIN & EFFLUENT SEWER

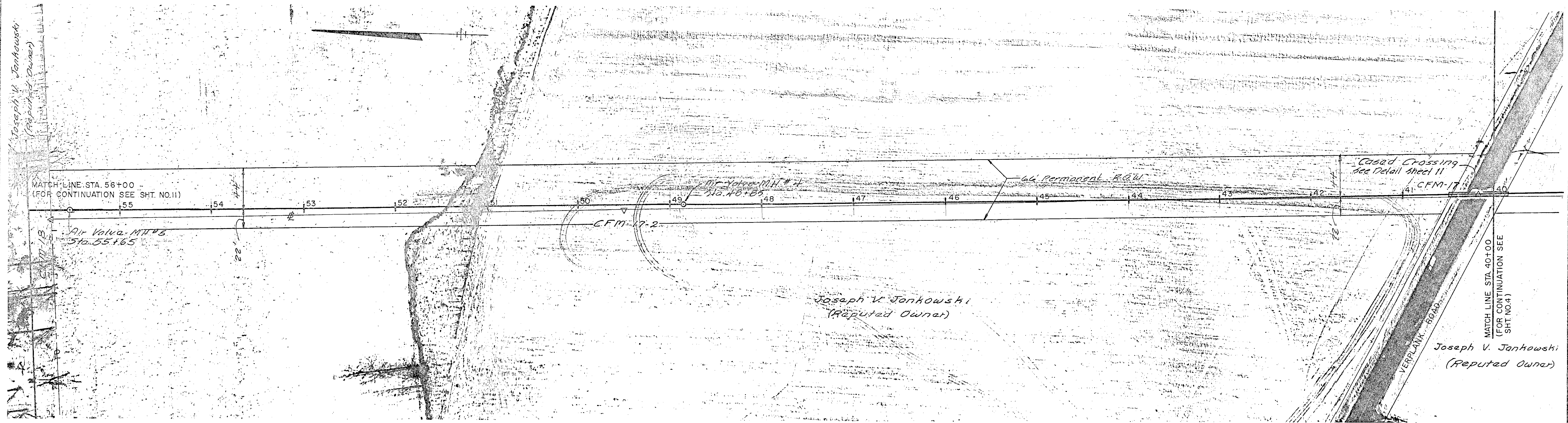
FORCE MAIN
PLAN & PROFILE

FILE NO.
115.216-04F
DATE
NOV. 6, 1972

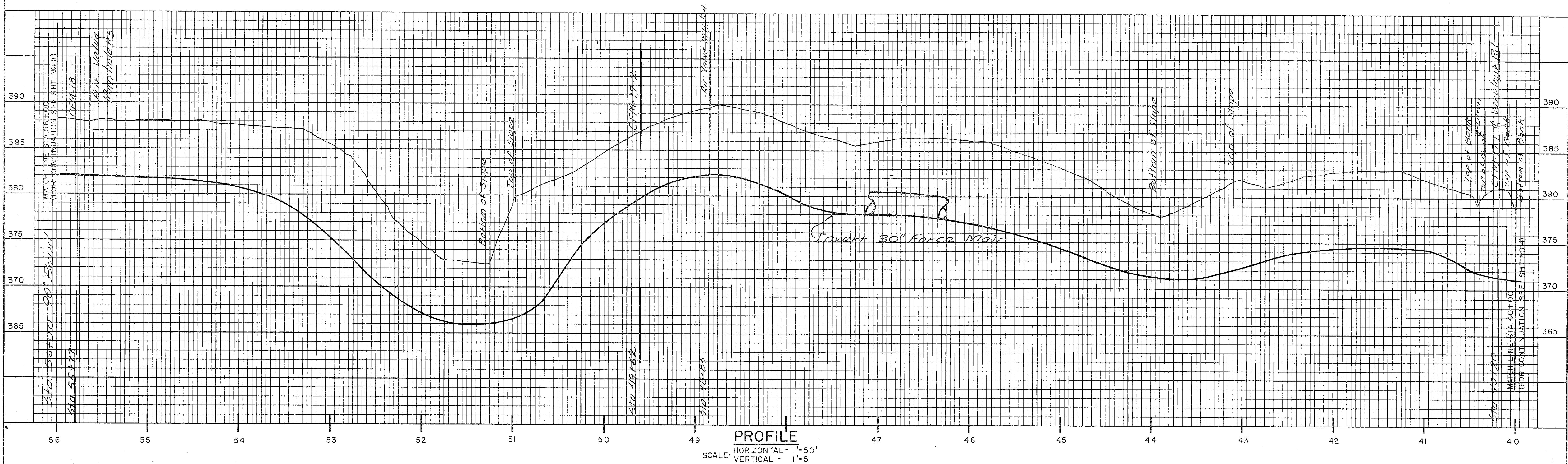


Curbman
 HLL
 399 AB-
 2/7/75
 2/1/75
 WJP

In charge of <u>WJP</u> Designed by _____ Checked by _____ Made by _____	1" = 50' 	NO. DATE REVISION INIT.	 O'BRIEN & GERE ENGINEERS, INC. Syracuse, New York	CLAY SANITARY DISTRICT OAK ORCHARD FORCE MAIN & EFFLUENT SEWER	FORCE MAIN PLAN & PROFILE	FILE NO. 115.216-05F	4
	1" = 5'0" 	DATE MARCH 2, 1973					



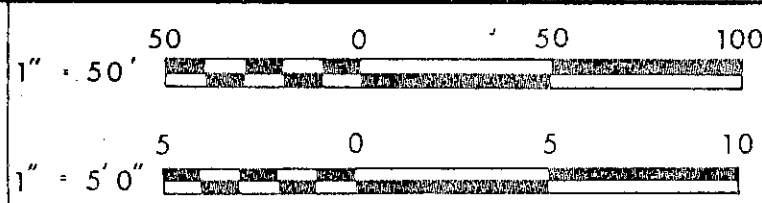
PLAN
SCALE 1"=50'



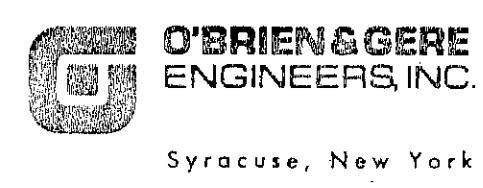
PROFILE
HORIZONTAL - 1"=50'
VERTICAL - 1"=5'

As shown 379-18-C
R.L. 2/7/75
W.S.

In charge of W.S.P.
Designed by W.M. Checked by W.S.P.
Made by W.S.P.



NO.	DATE	REVISION	INIT.
1	2/1/75	Revised Plan	W.S.P.

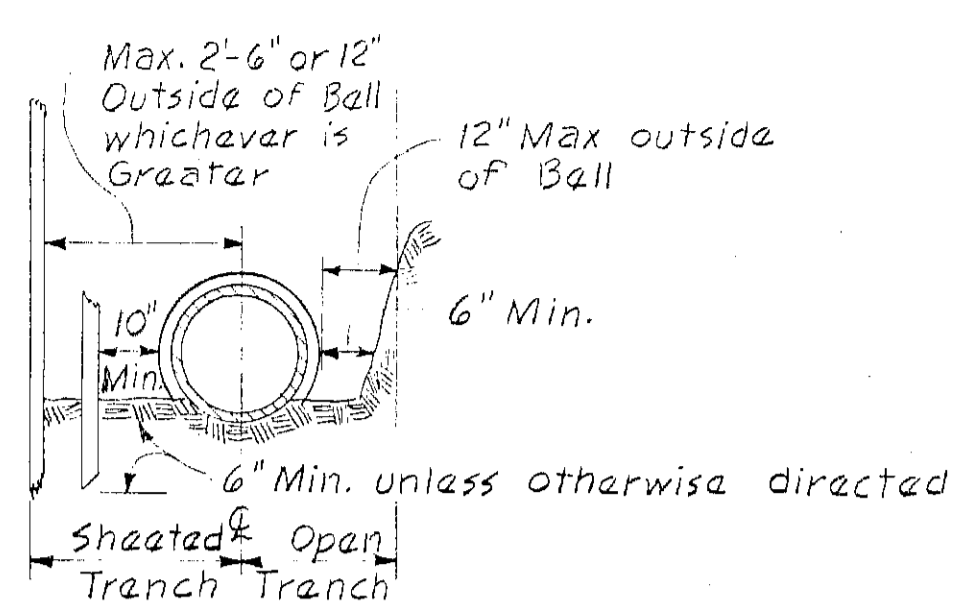


CLAY SANITARY DISTRICT
OAK ORCHARD FORCE
MAIN & EFFLUENT SEWER

FORCE MAIN
PLAN & PROFILE

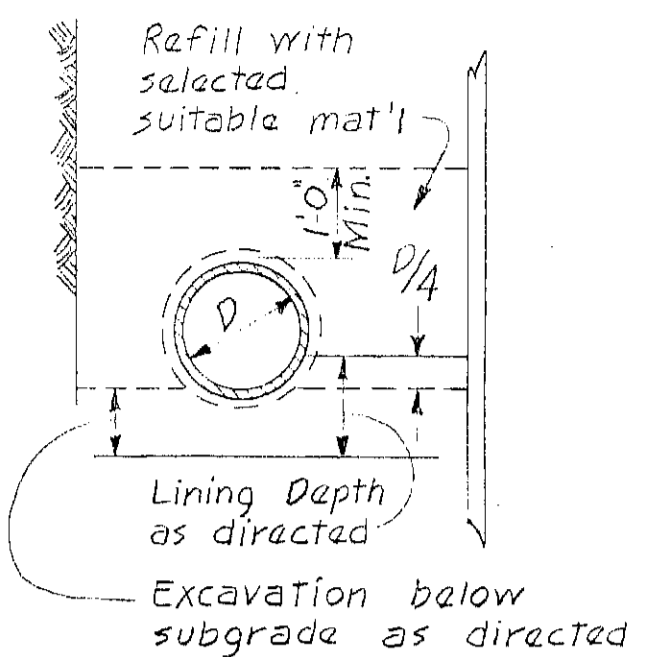
FILE NO. 115.216-06F	5
DATE MARCH 2, 1973	

Maximum Trench Width at Ground Surface is 12'-0"



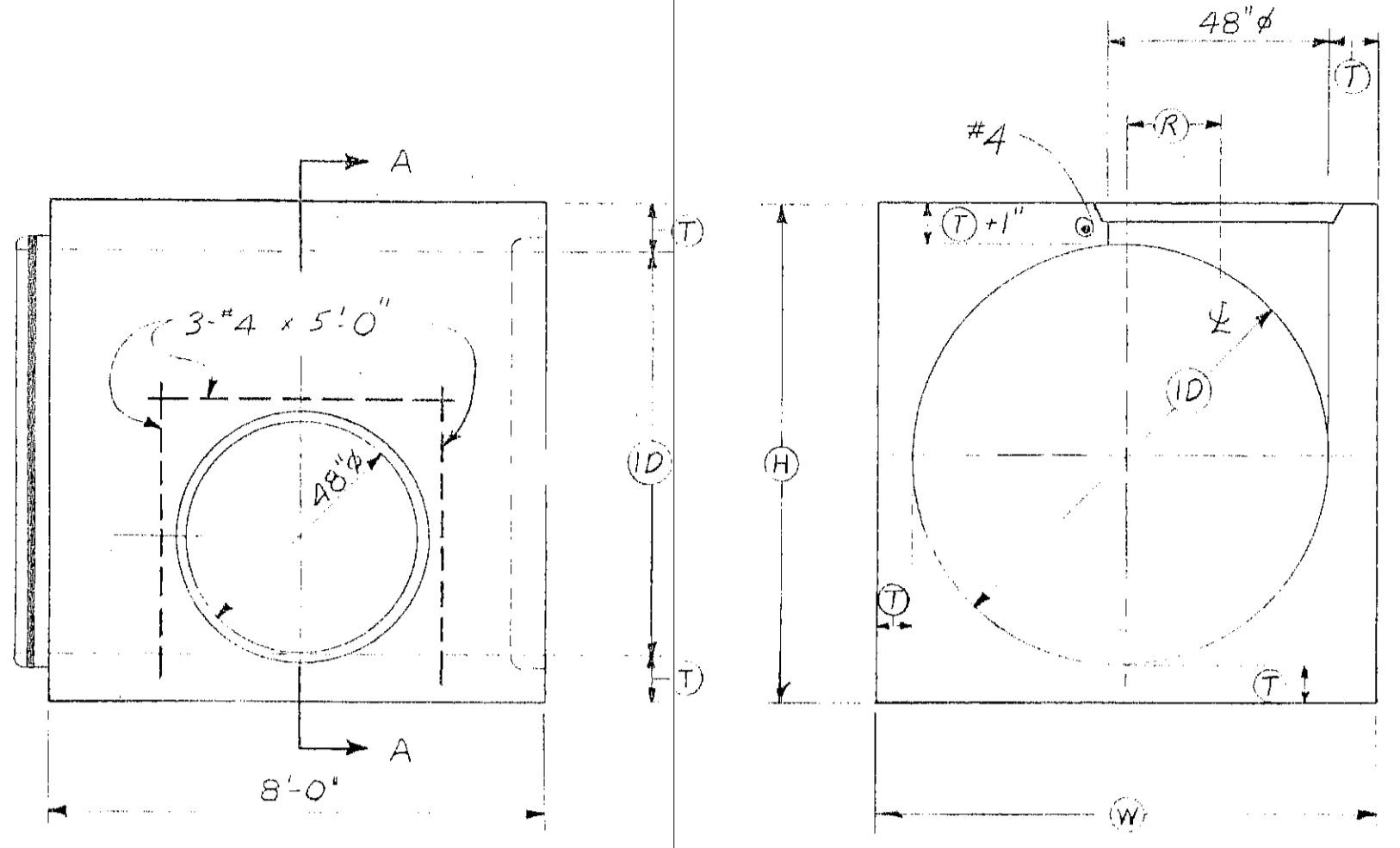
LIMITING WIDTHS OF TRENCH

Not to Scale



TYPICAL TRENCH SECTION

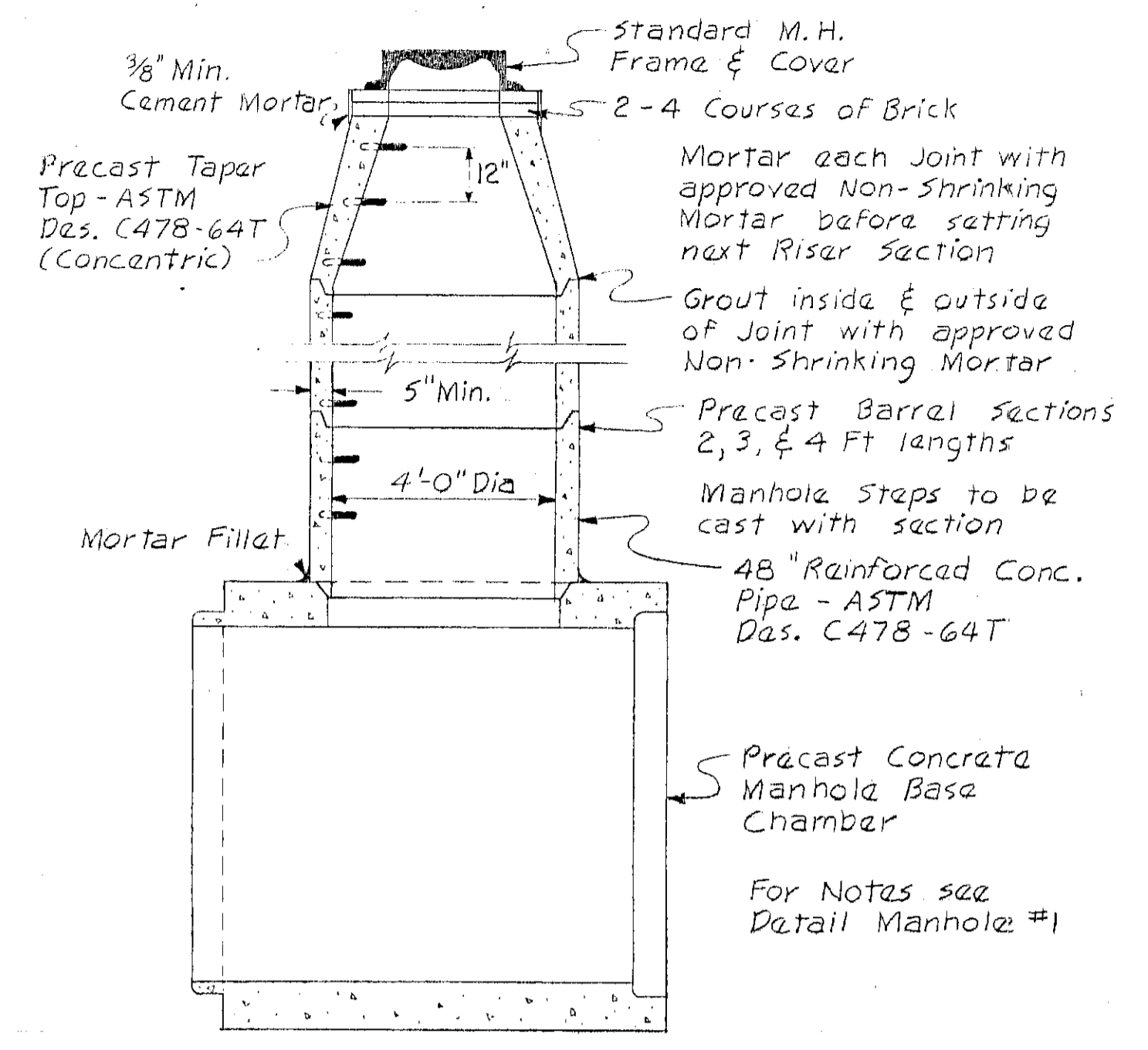
Not to Scale



PRECAST CONCRETE MANHOLE BASE CHAMBER

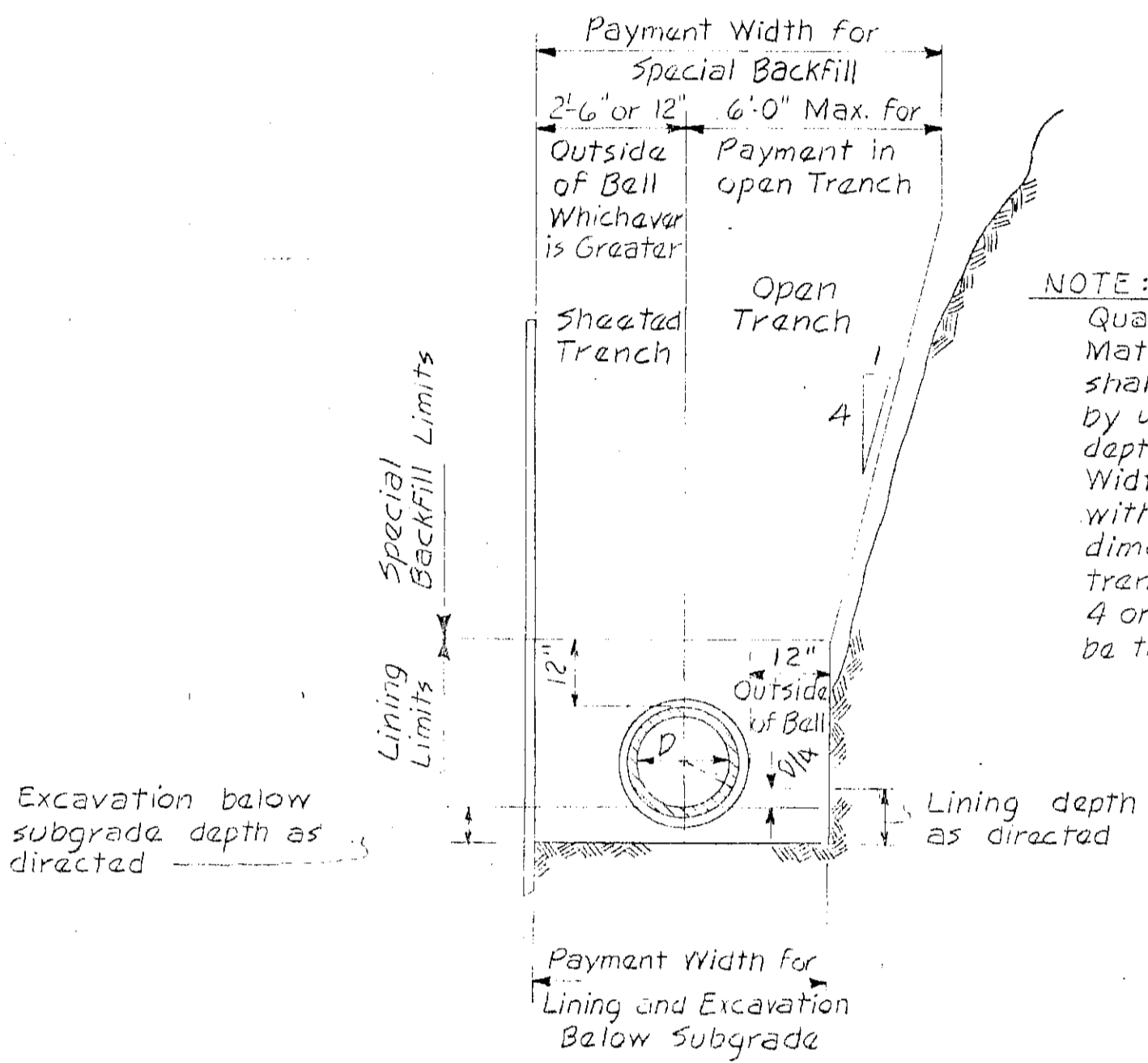
Not to Scale

MI #	ID	T	H	W	R	Reinf
2	58"	7 1/2"	8 1/2"	8 1/2"	7"	
3, 4, 5, 6	72"	7 3/4"	8 8/16"	8 7/16"	12"	



DETAIL MANHOLES NO. 2-6

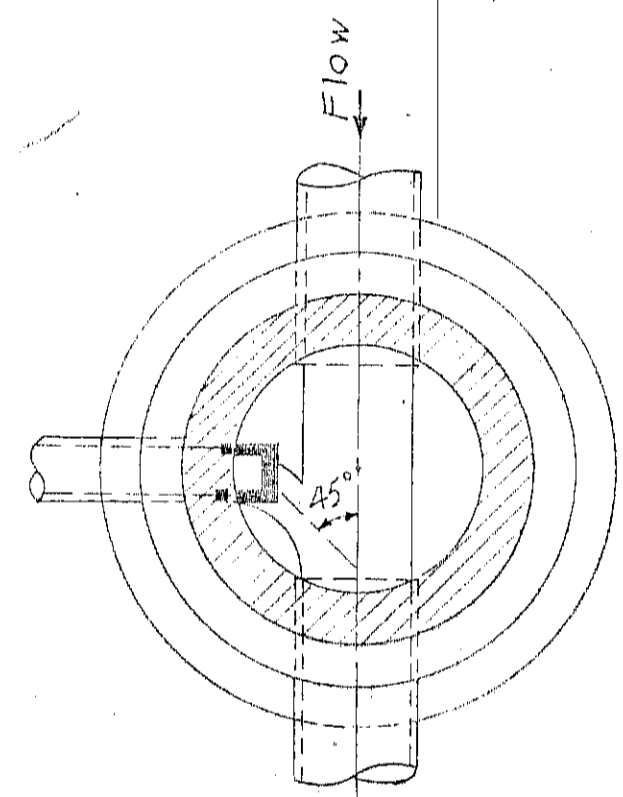
Not to Scale



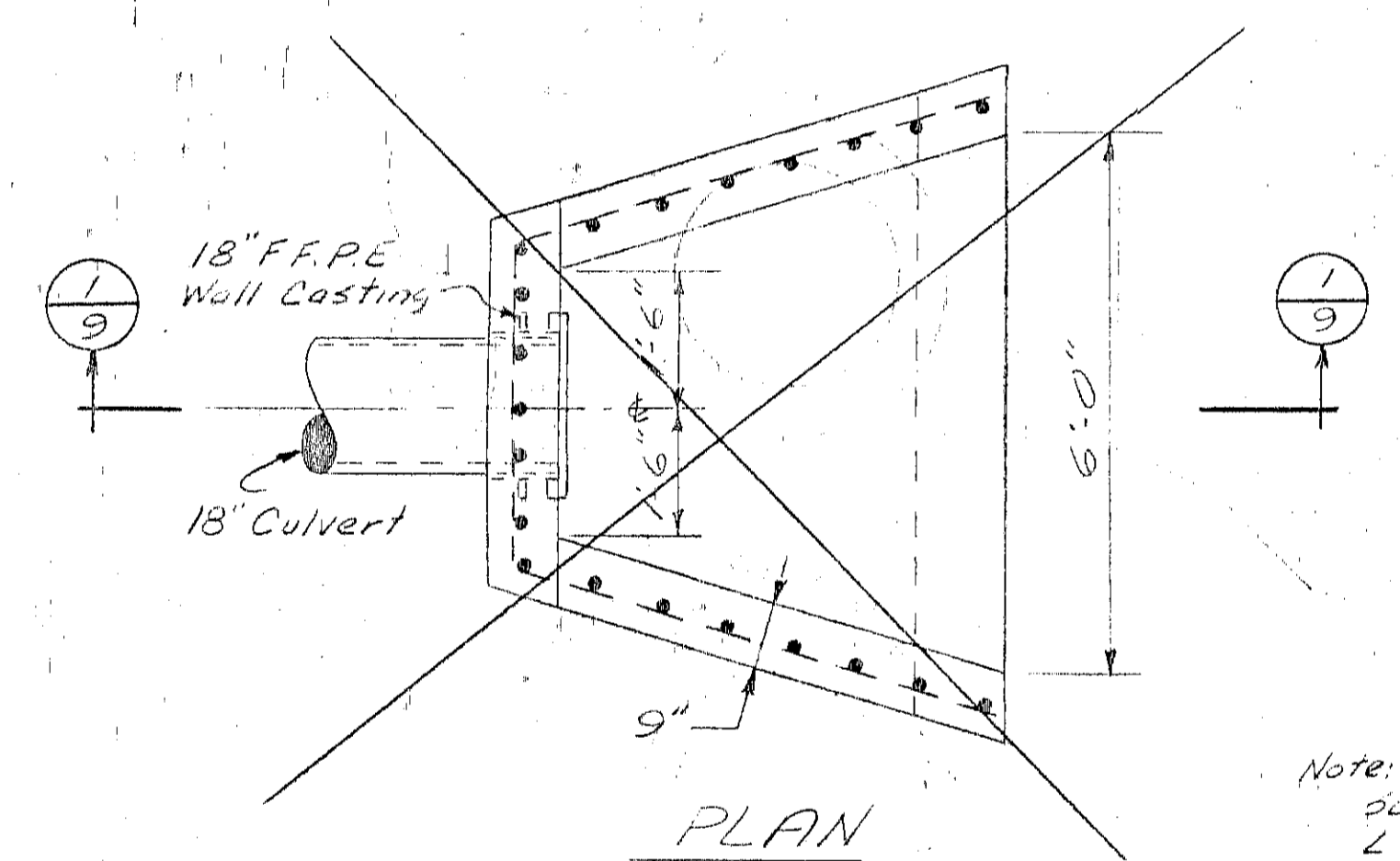
PAYMENT LIMITS FOR SPECIAL GRANULAR MATERIALS

Not to Scale

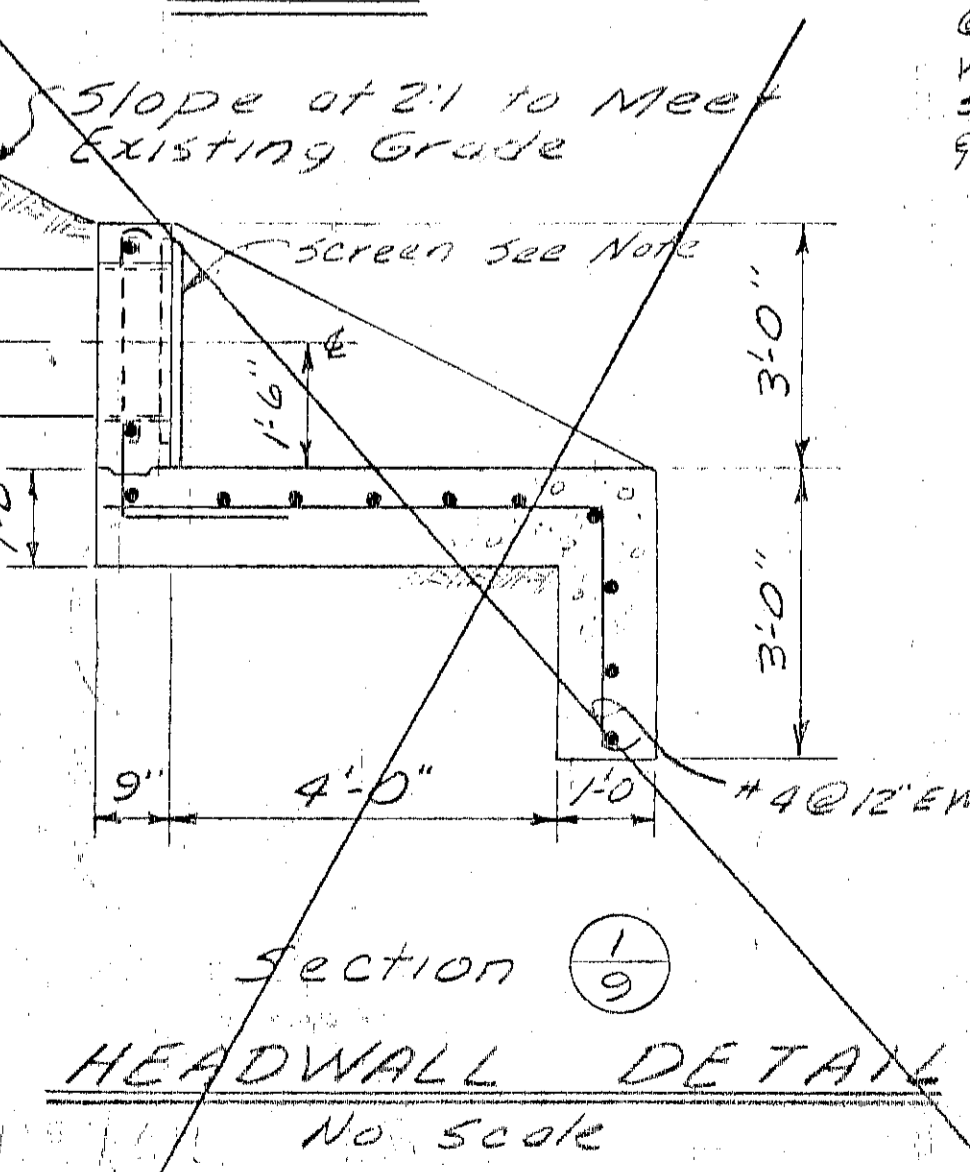
NOTE:
Quantity of Special Granular Materials for which Payment shall be made, will be computed by using the product of the depth as directed and the "Payment Width" as shown on this detail without regard to actual dimensions and quantities. Where trench sides are steeper than 4 on 1 "Payment Width" used will be the actual width up to 6'-0" Max.



PLAN - SECTION



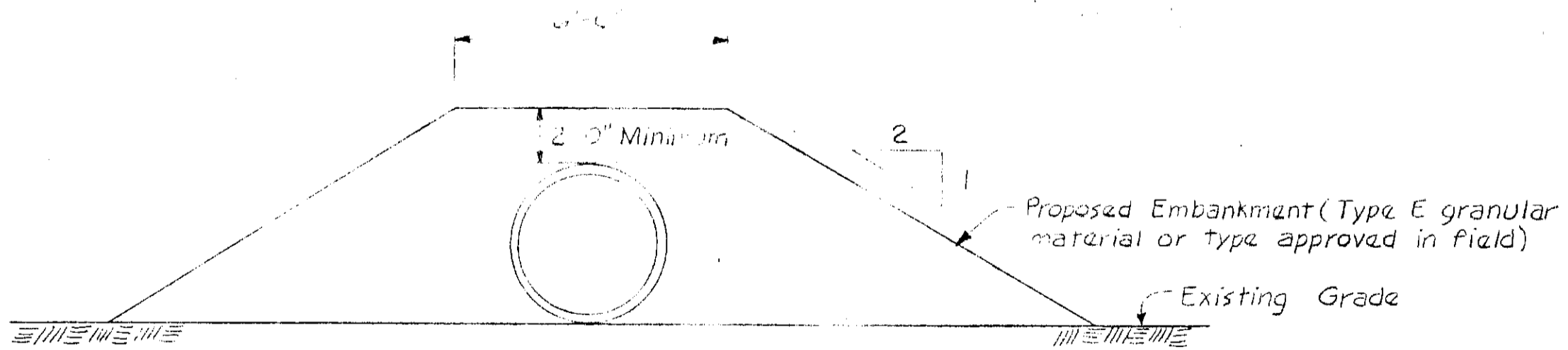
PLAN



SECTION 1/9 HEADWALL DETAIL

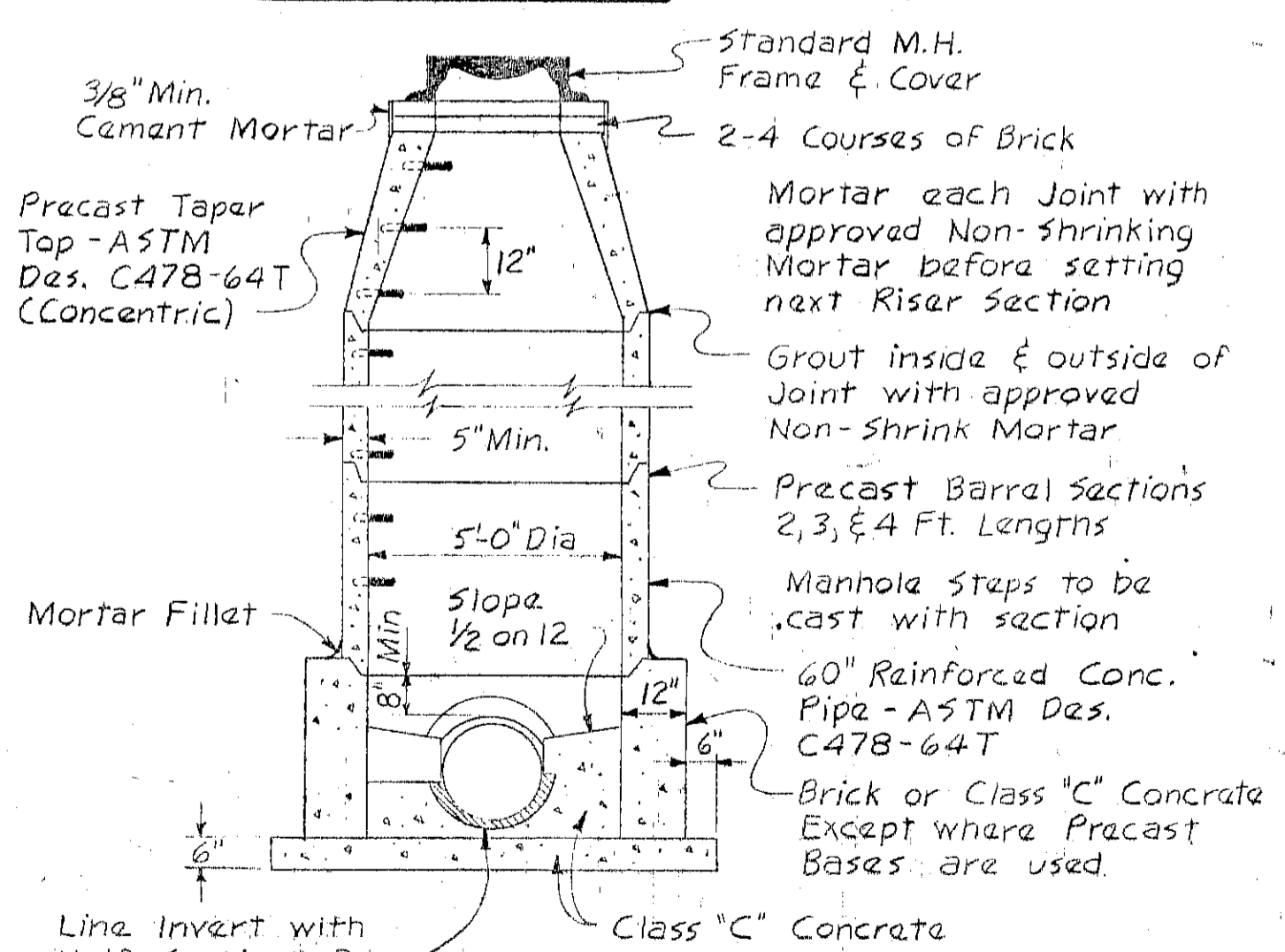
No Scale

Note:
Screen shall have a 3/8" x 2" x 2" L Frame w/ 3/8" x 2" Vert. Rs @ 4" O.C. Secure to Headwall w/ 4-1/2" Anchor Bolts. Screen shall be made of Steel & Coated w/ 2 Coats of Coal Tar



TYPICAL EARTH EMBANKMENT DETAIL

Not to Scale



DETAIL MANHOLE NO. 7

Not to Scale

- NOTES:**
- Standard Manhole Frames & Covers shall be Syracuse Castings Sales Corp., model No. 1255B or as specified, and shall have machined bearing surfaces.
 - Standard Manhole steps shall be Syracuse Castings Sales Corp., model No. 2581 or approved alternate.
 - Where gasketed joints are used they shall be self contained rubber ring gaskets.

RECORD DRAWINGS
To the best of our knowledge, information and belief, these record drawings substantially represent the project as constructed.
O'BRIEN & GERE ENGINEERS, INC.
Checked by [Signature] Date 2/7/75
Made by [Signature] Date 2/7/75
Checked by [Signature] Date 2/7/75

In charge of [Signature]
Designed by [Signature] Checked by [Signature]
Made by [Signature]

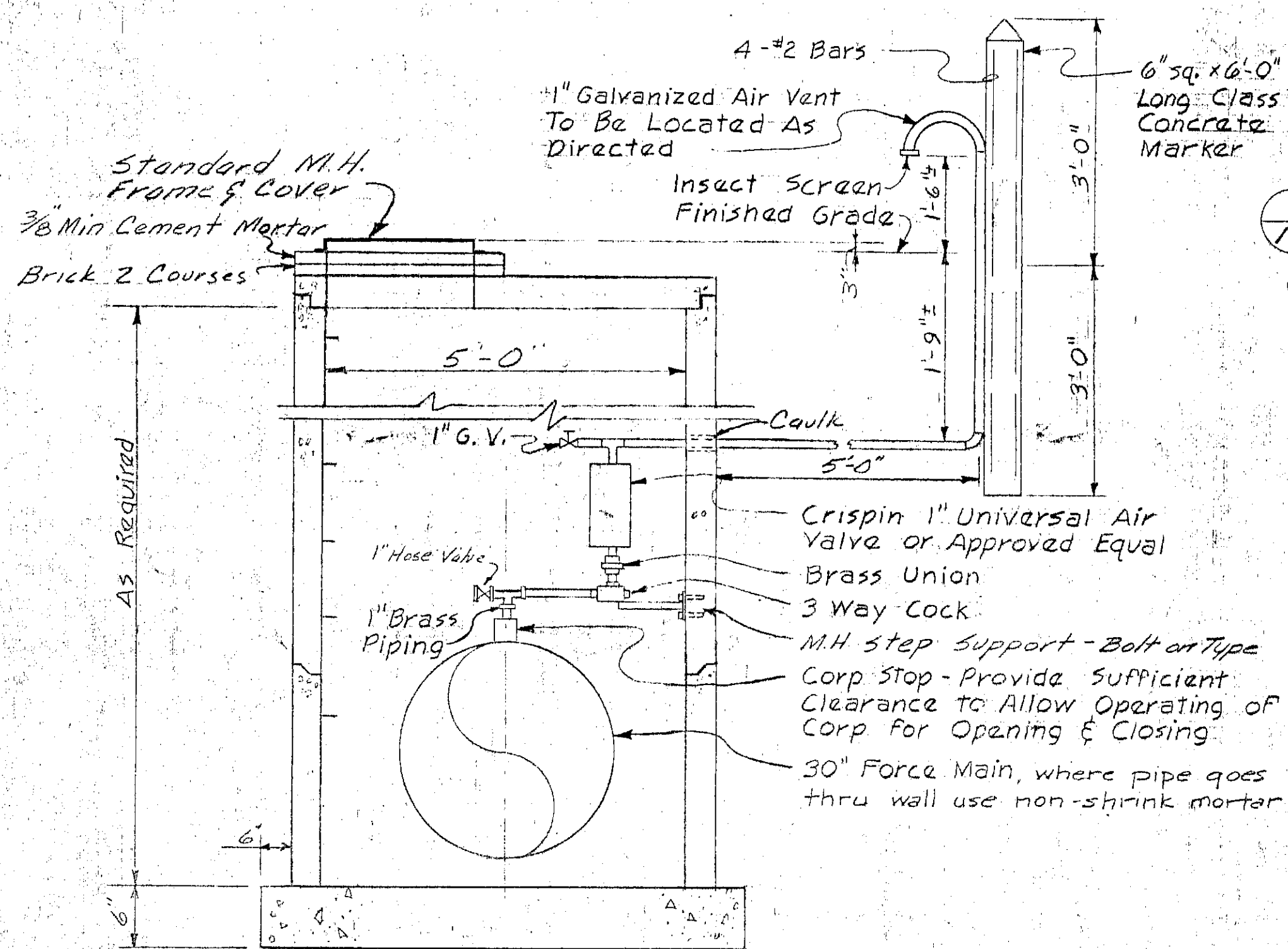
NO.	DATE	REVISION	INIT.
1	5/11/73	Changed 1 1/2" to 2" Min. Embankment	

O'BRIEN & GERE ENGINEERS, INC.
Syracuse, New York

CLAY SANITARY DISTRICT
OAK ORCHARD FORCE
MAIN & EFFLUENT SEWER

MISCELLANEOUS DETAILS

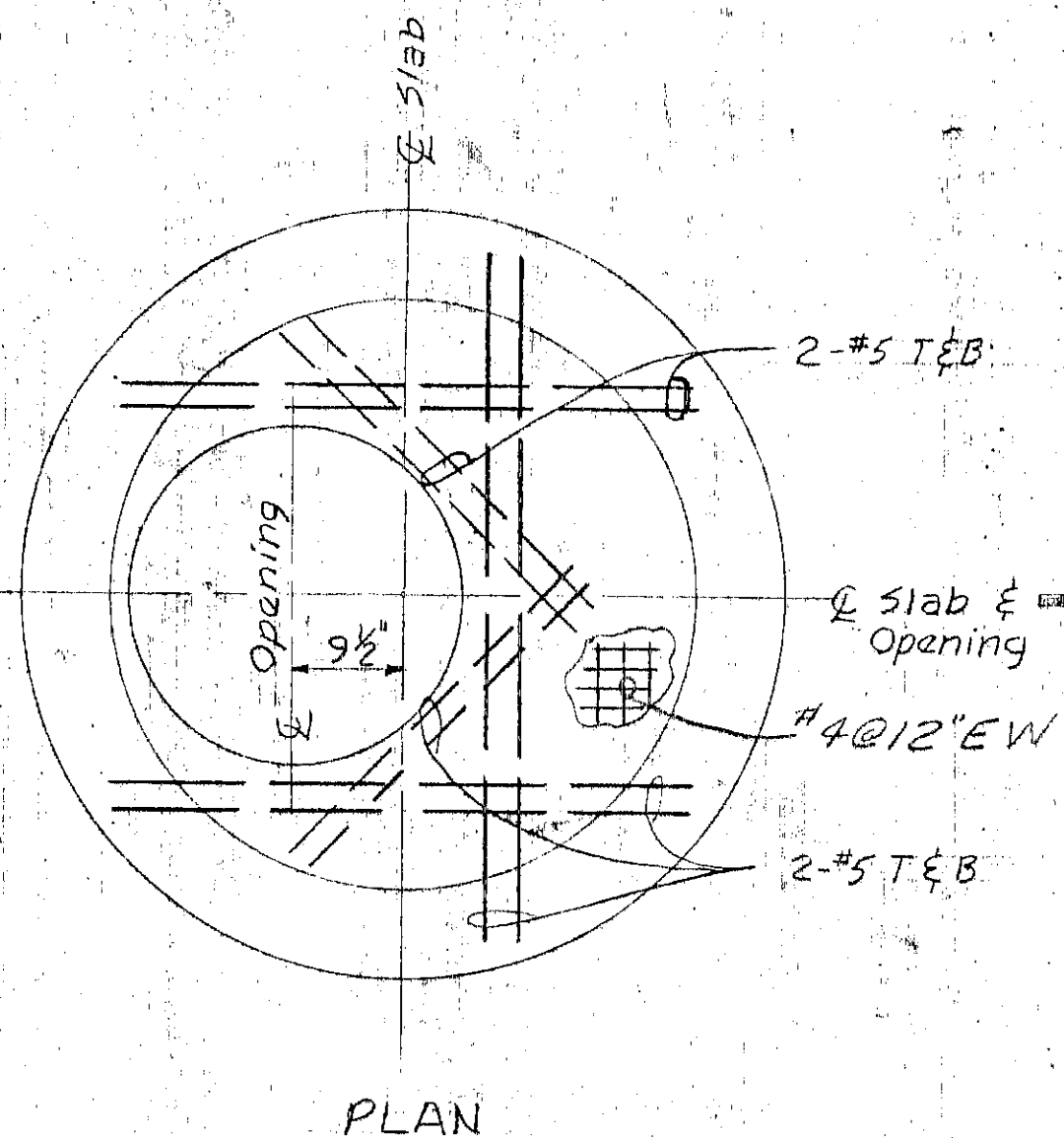
FILE NO.
115.216-10F
DATE
NOV. 6, 1972
9



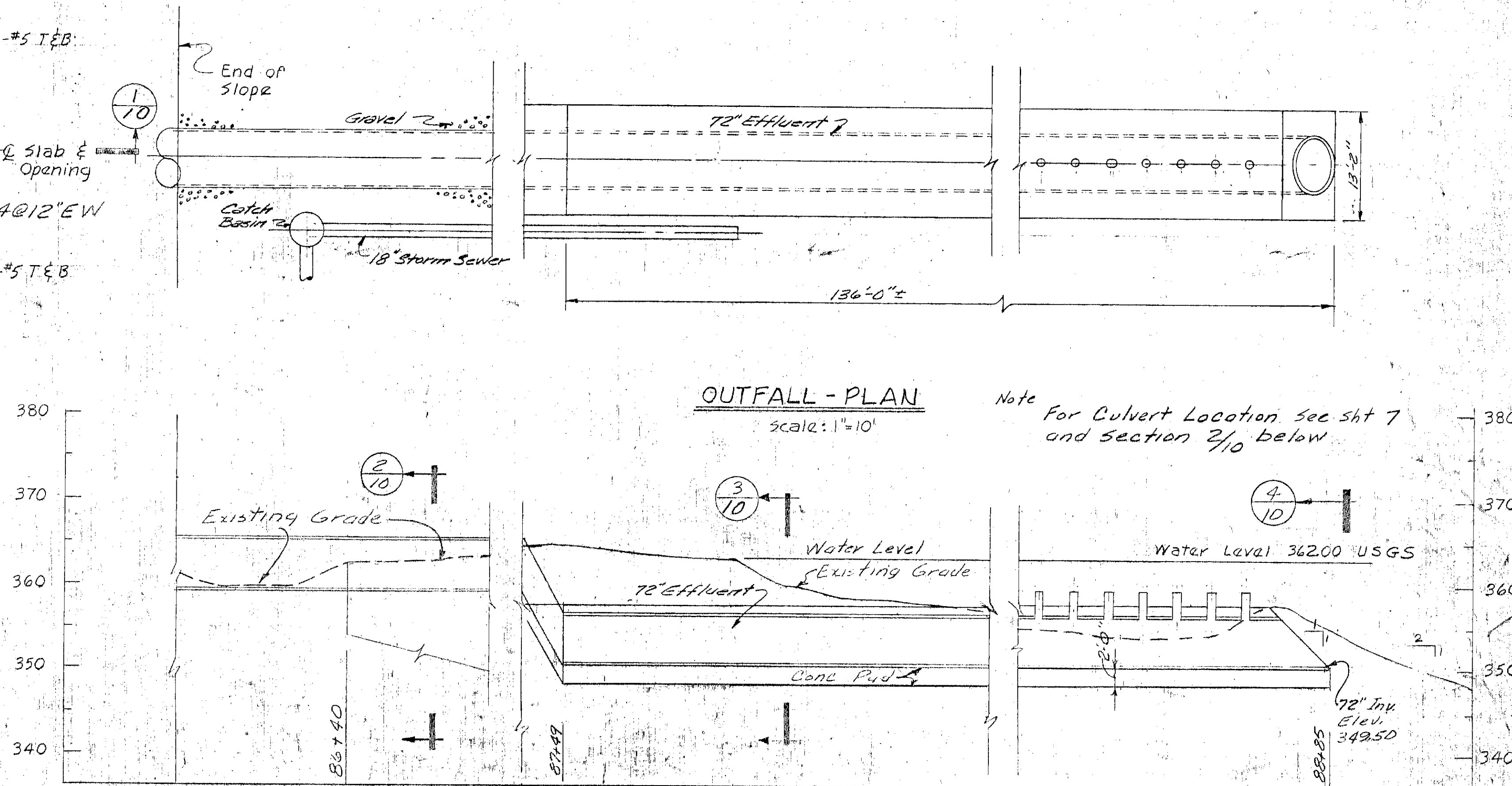
- NOTES:
1. Fasten Air Vent to Marker @ 12" o.c.
 2. C.I. Manhole Steps, Neenah Cat. No. R-1980E or Approved Equal and installed 12" o.c.

DETAIL: AIR VALVE MANHOLE

Not to Scale



PLAN



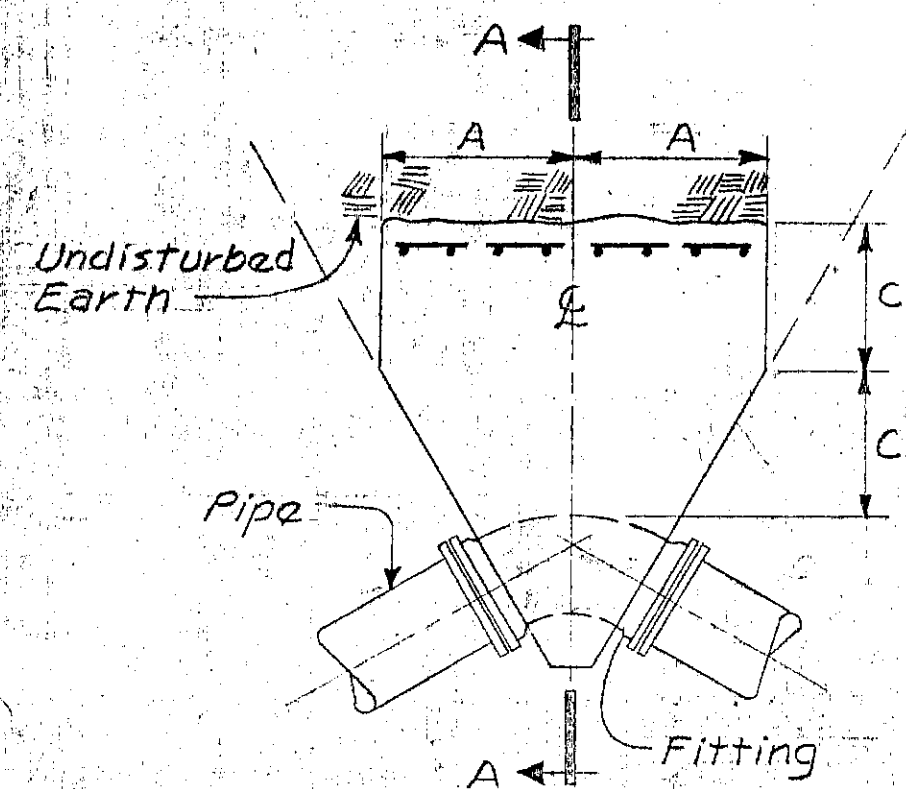
OUTFALL - PLAN

Scale: 1" = 10'

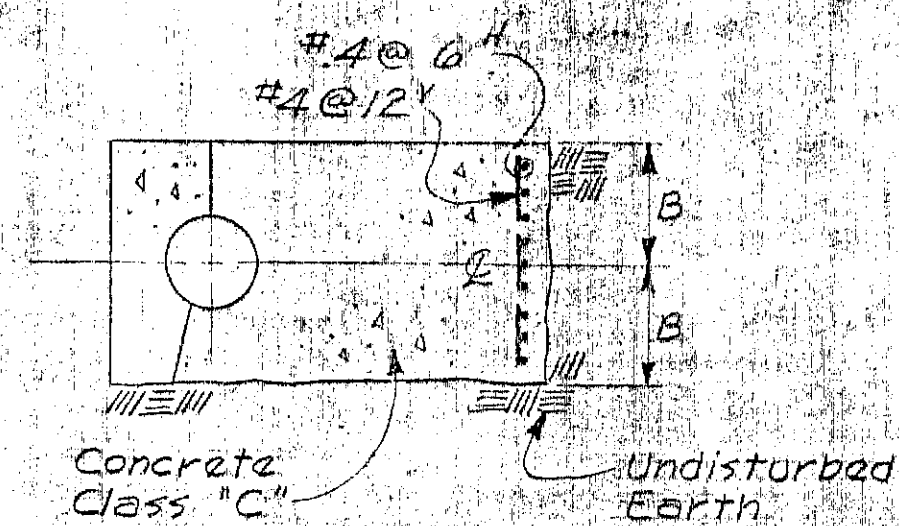
OUTFALL - PROFILE

N.T.S.

Note: For Culvert Location see sht 7 and section 2/10 below



PLAN



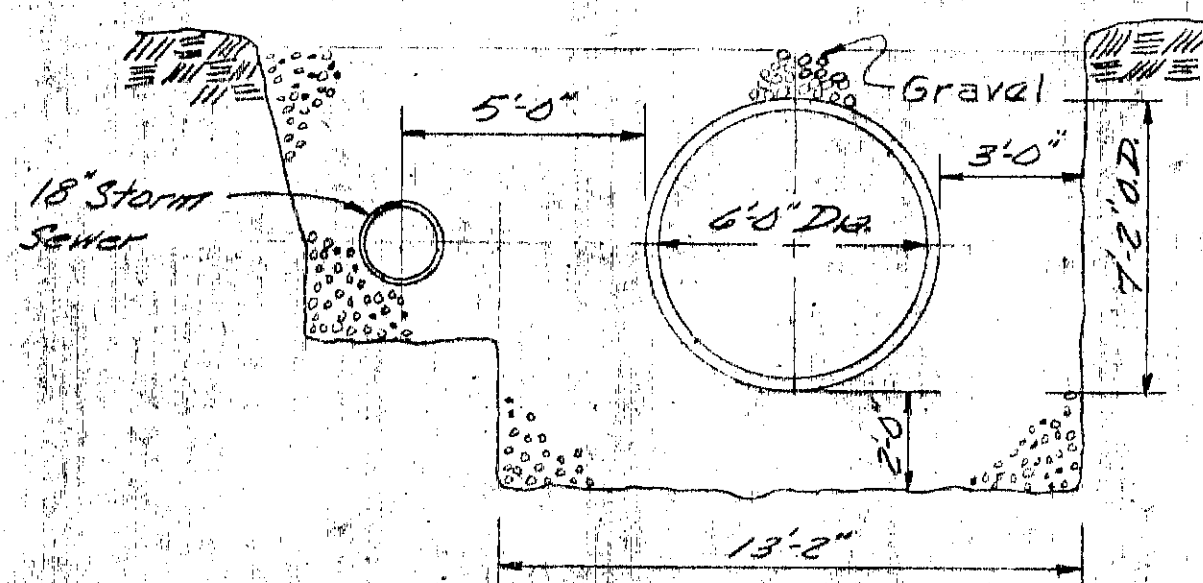
SECTION A-A

Pipe Size	Bend	Dimensions		
		A	B	C
30"	90°	16'-5"	1'-9"	7'-3"
	60°	13'-3"	1'-9"	6'-9"
	45°	10'-9"	1'-9"	5'-6"
	30°	10'-0"	1'-9"	3'-9"
	17°		*	

DETAIL: TYPICAL THRUST BLOCKS

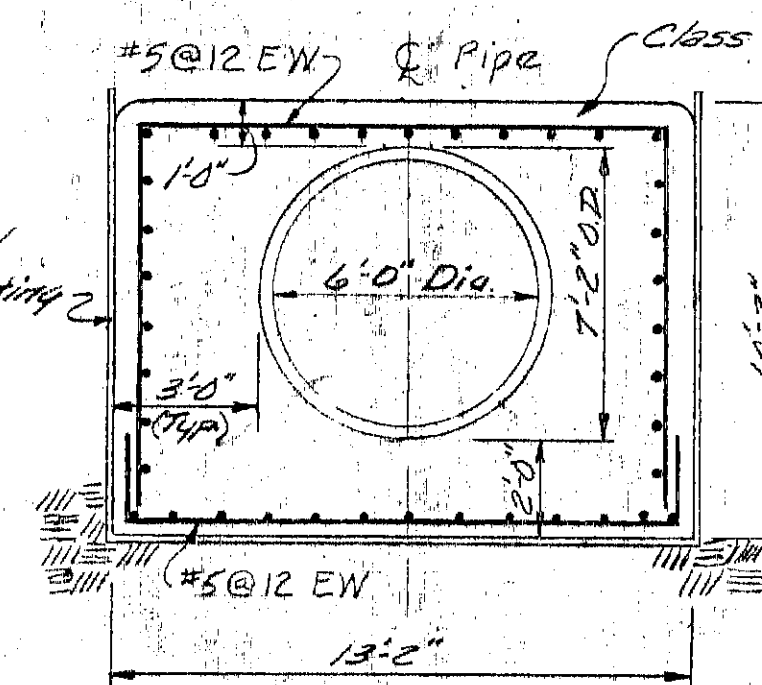
Not to Scale

* A 12" weld was made between the steel ball ring & the steel spigot ring with a 3/8" square bar. This eliminates the need for a thrust block.



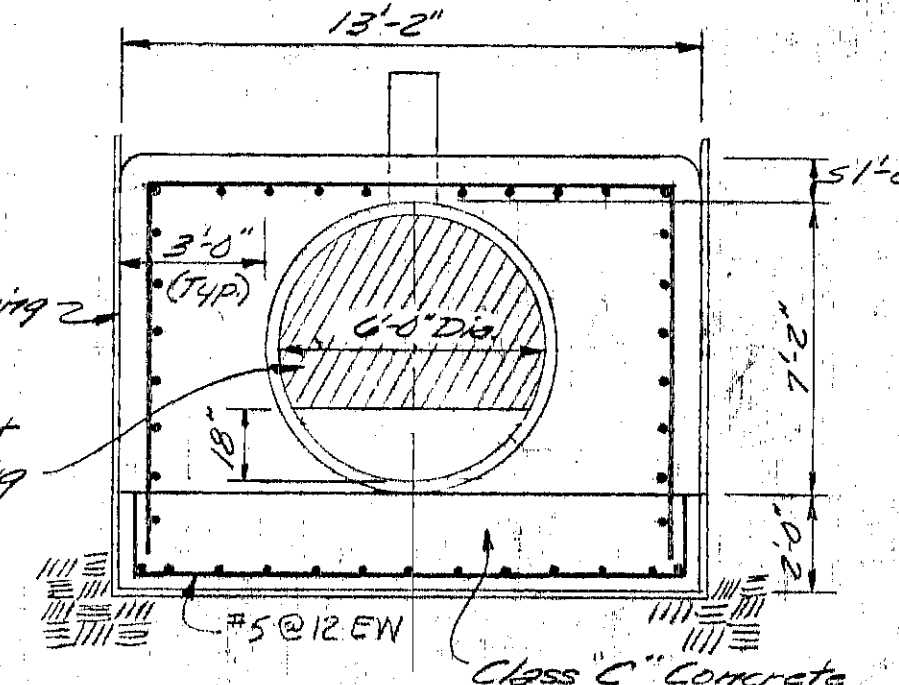
SECTION 2/10

N.T.S.



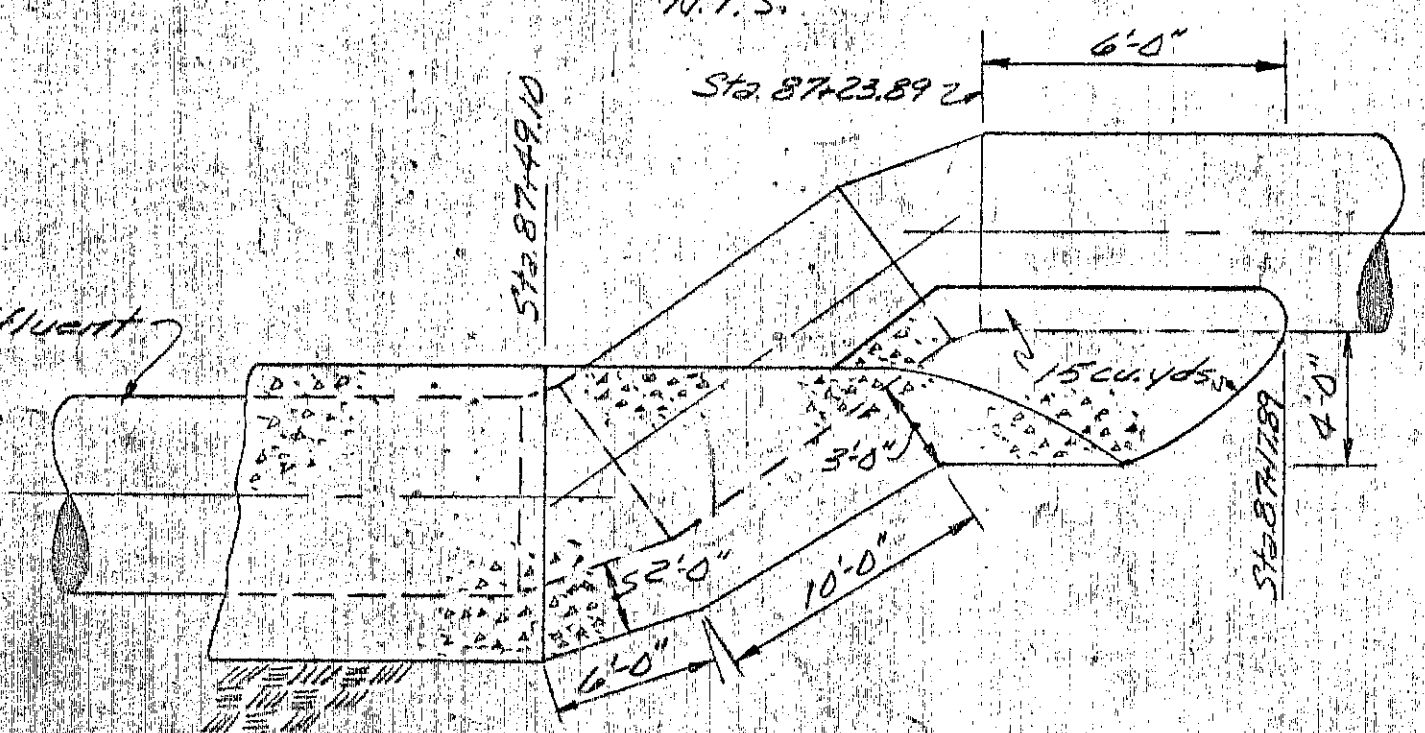
SECTION 3/10

Not to Scale



SECTION 4/10

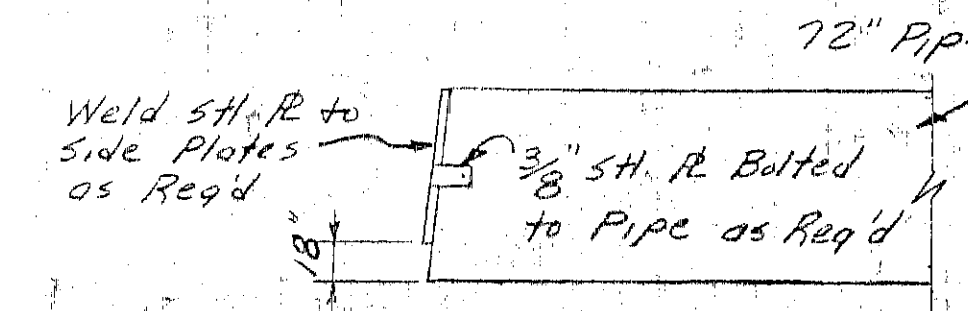
Not to Scale



OUTFALL PROFILE

STA. 87+49 TO STA. 87+71

N.T.S.



STEEL PLATE DETAIL

No Scale

RECORD DRAWINGS
To the best of our knowledge, information and belief, these record drawings substantially represent the project as constructed.
O'BRIEN & GERE ENGINEERS, INC.
By: [Signature]



In charge of: [Signature]
Designed by: WJM Checked by: WJM
Made by: GPK

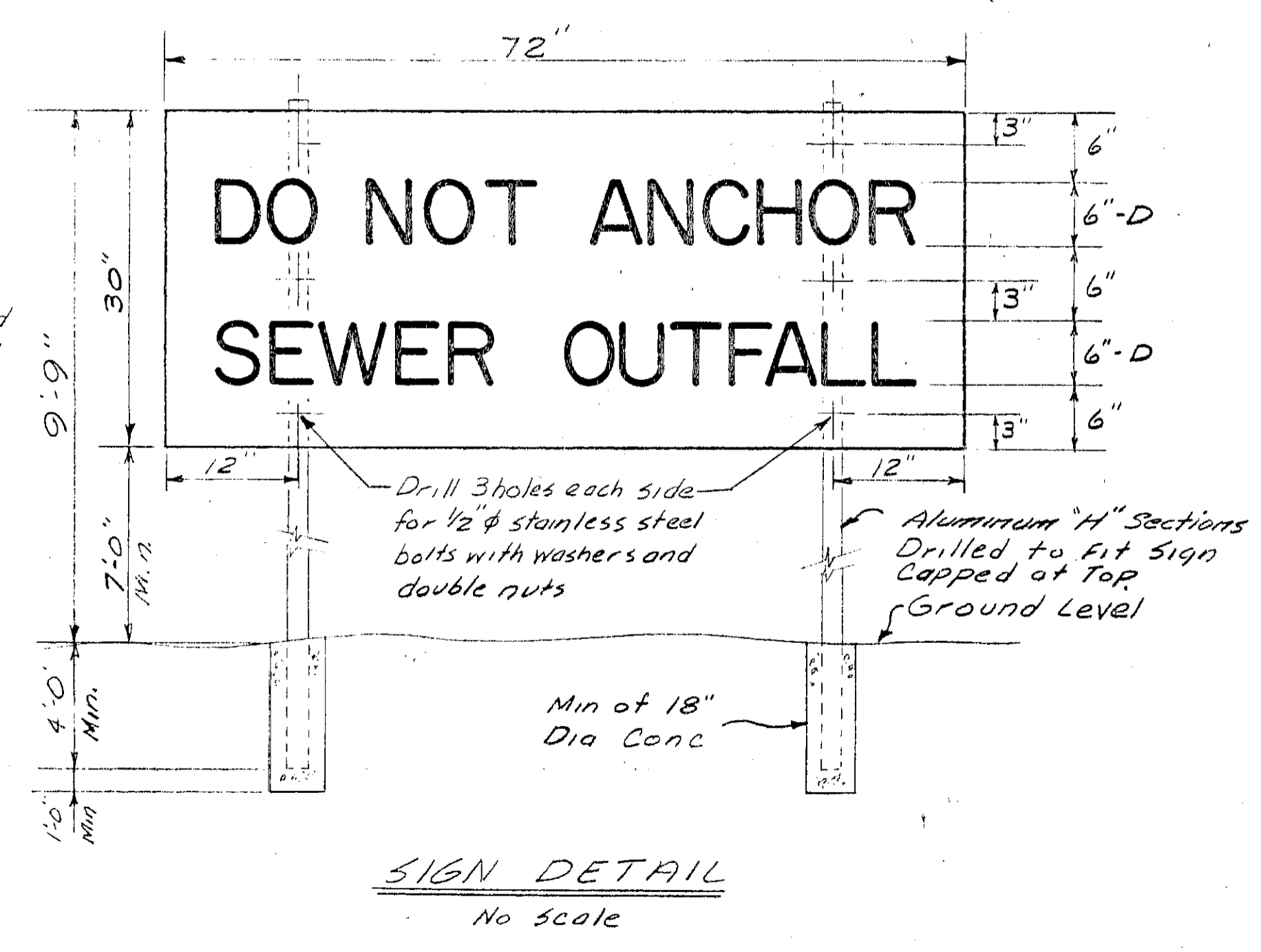
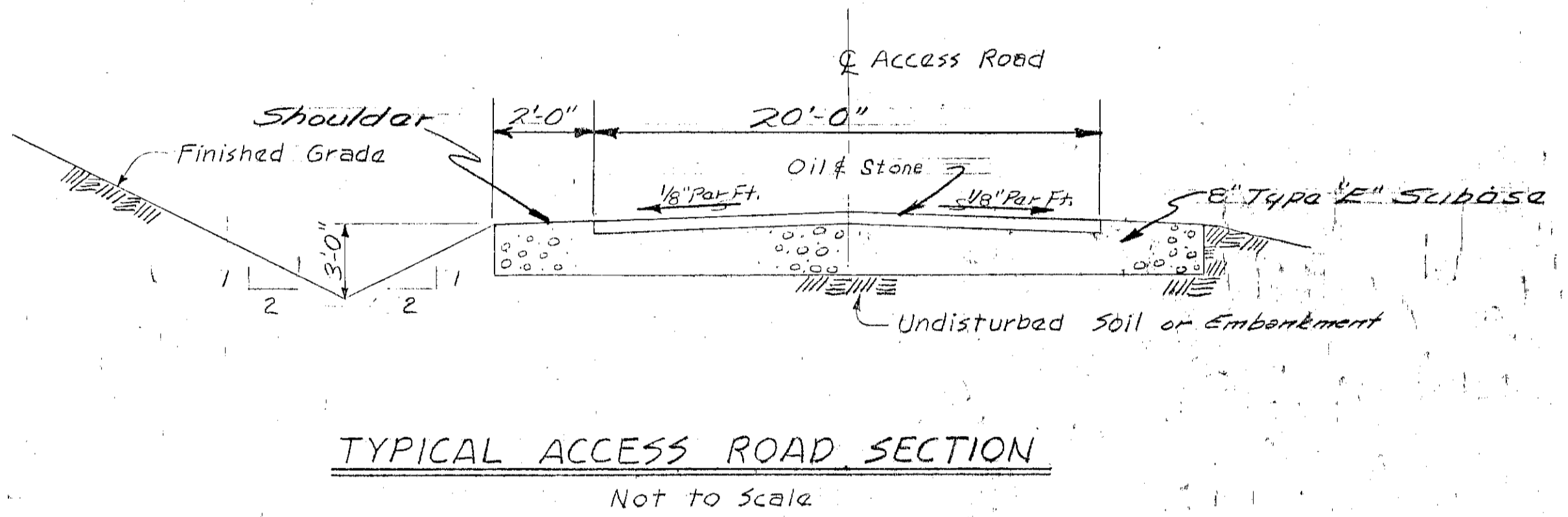
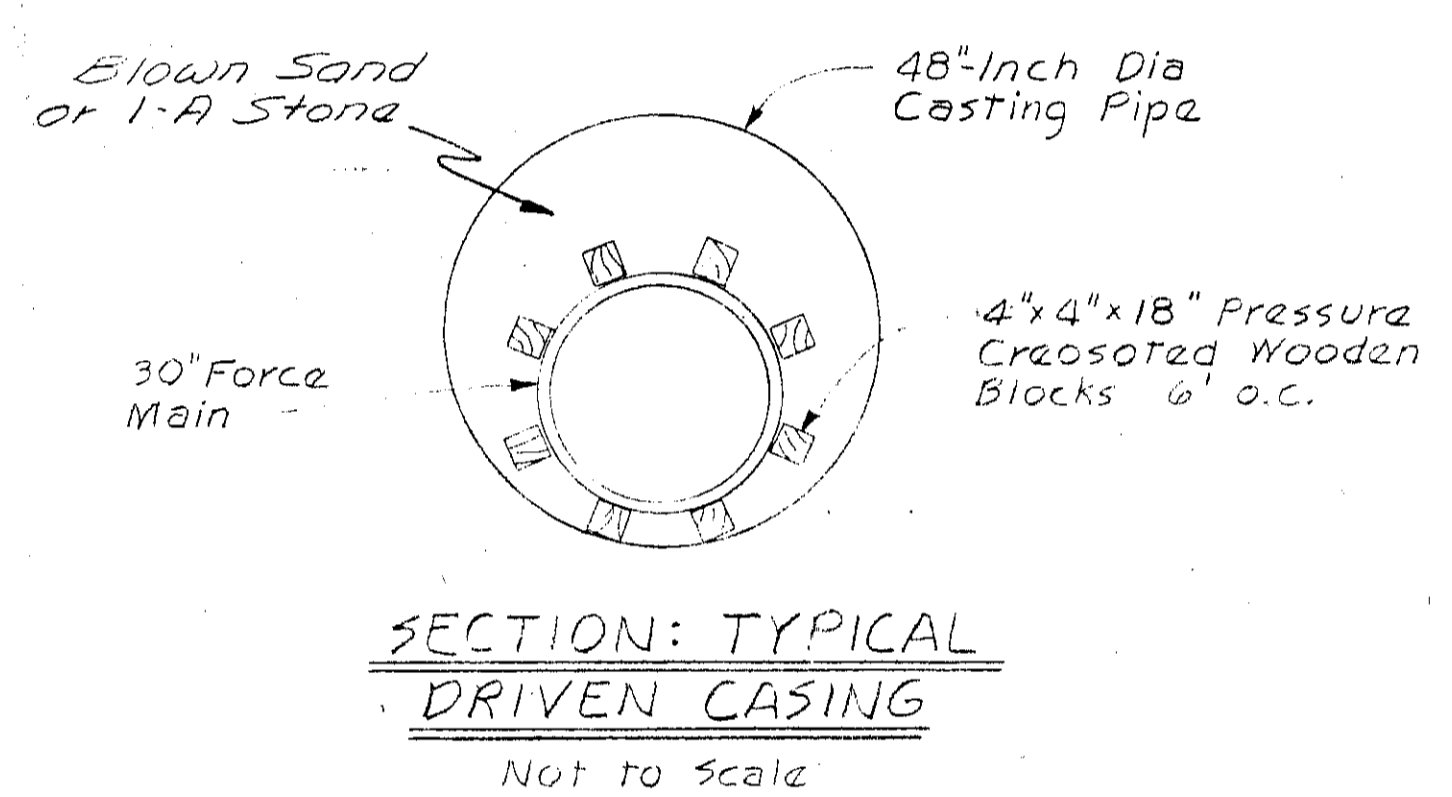
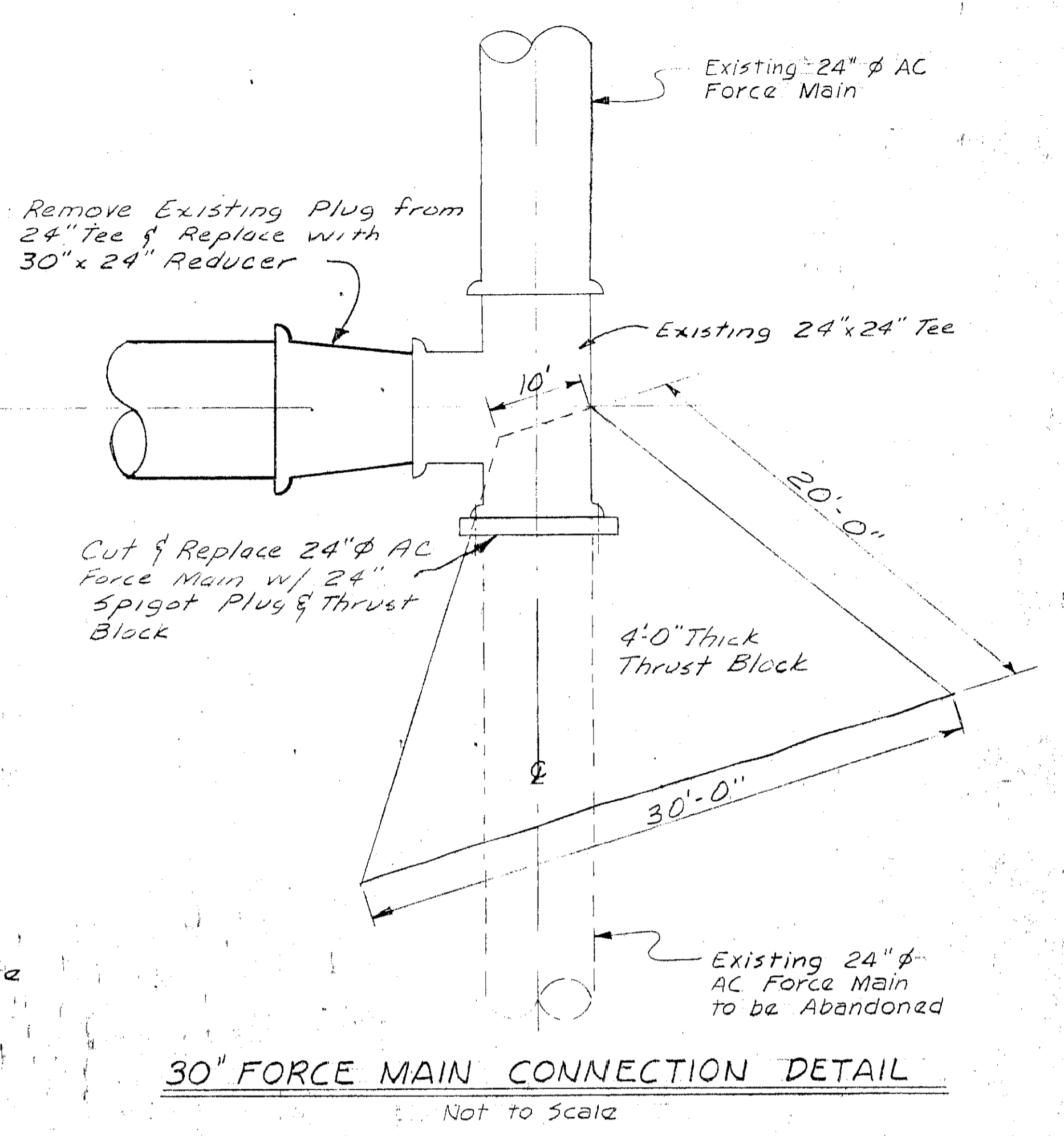
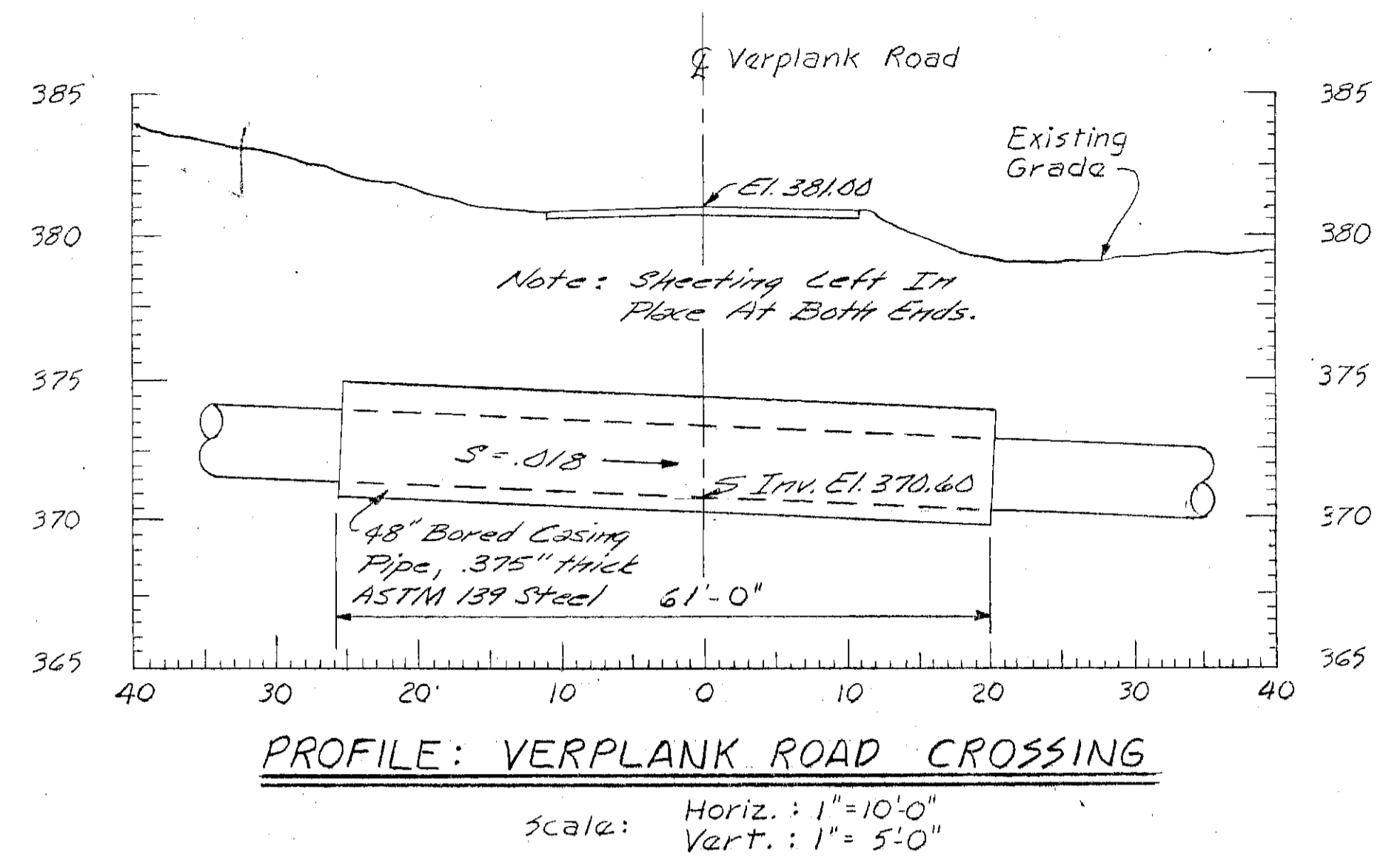
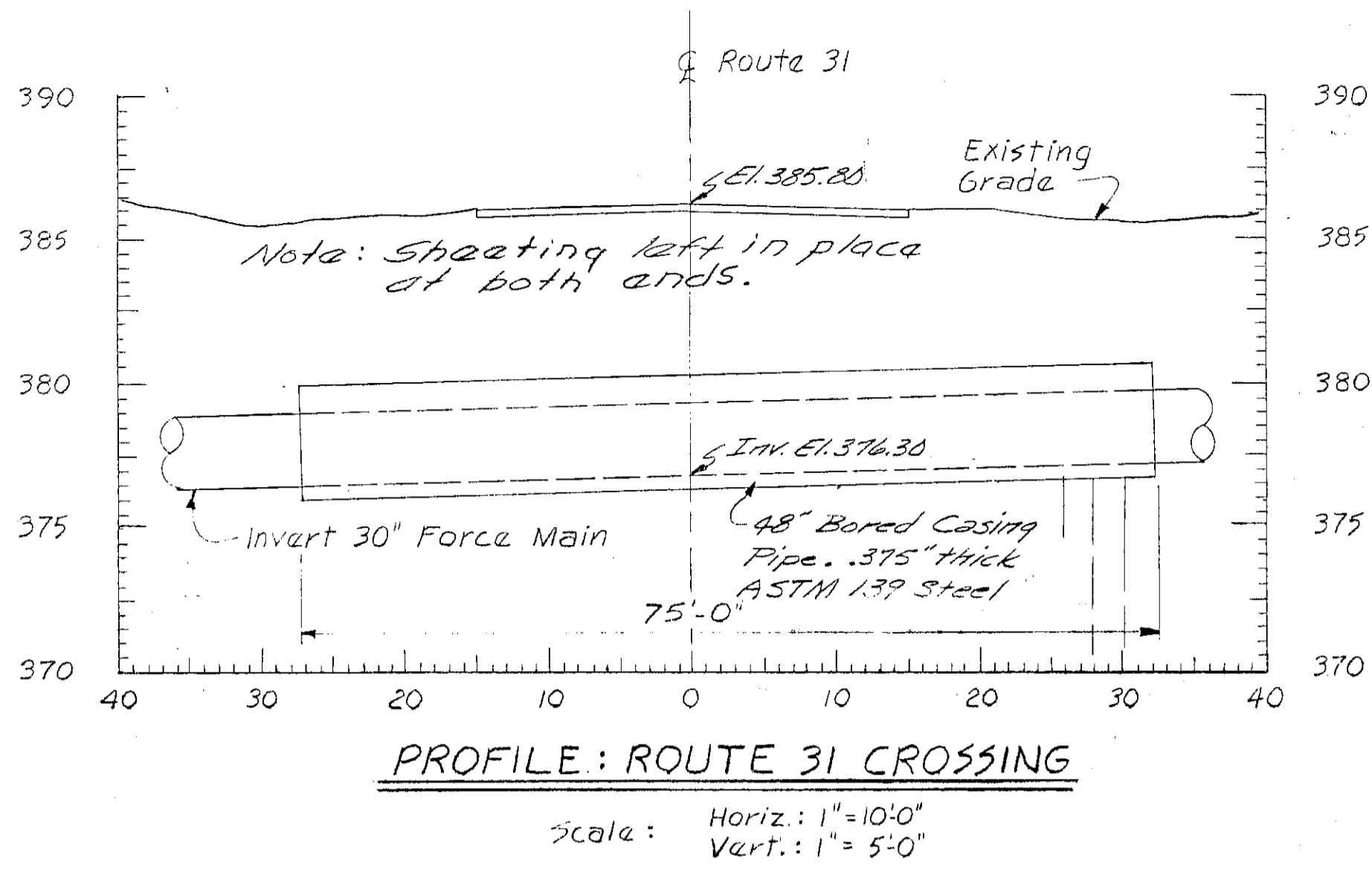
NO.	DATE	REVISION	INIT.
1	10/1/72	Revised sect 1/10	WJM
2	10/1/72	Checked outfall Profile & Sect 3/10	GPK

O'BRIEN & GERE ENGINEERS, INC.
SYRACUSE, NEW YORK

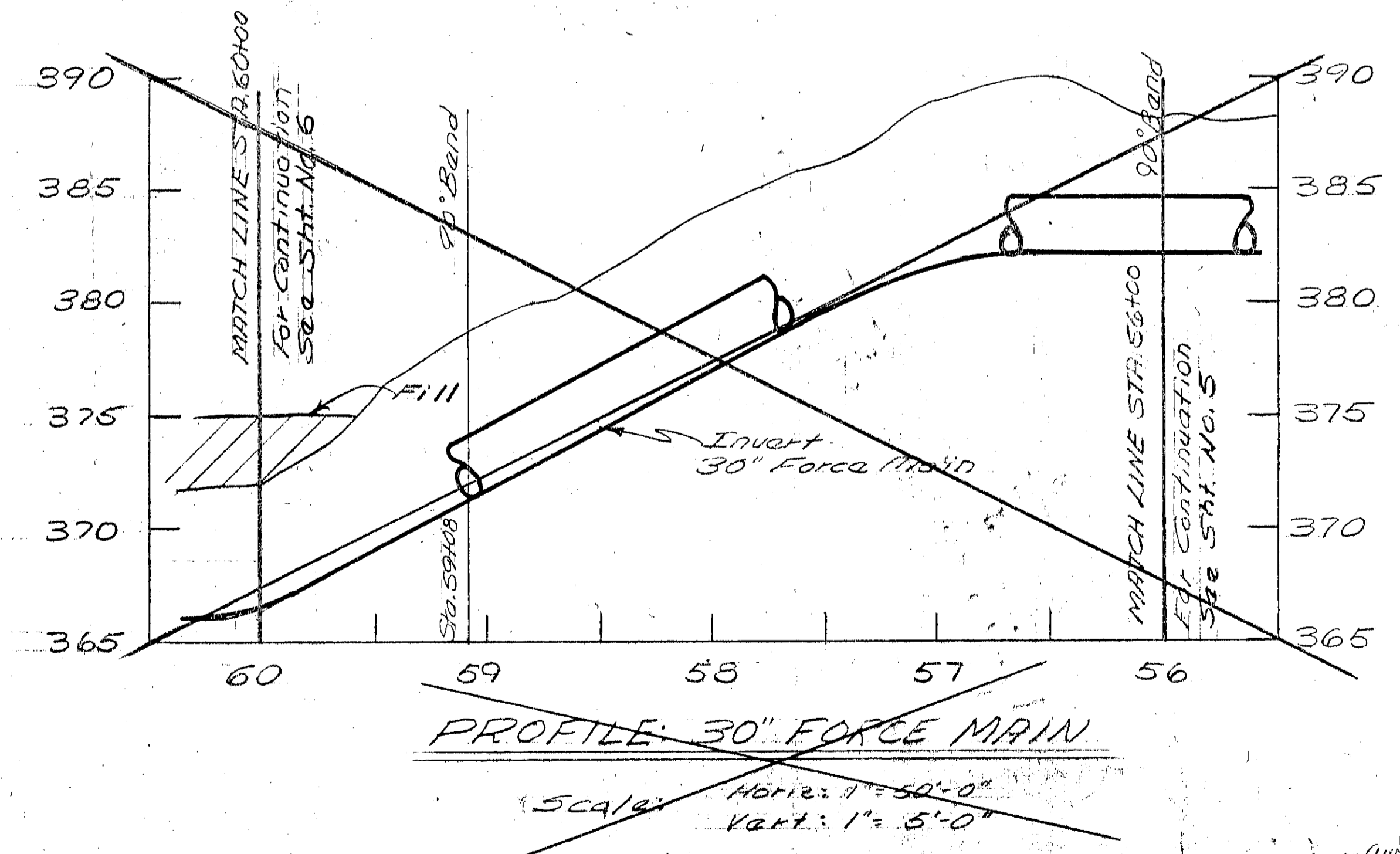
CLAY SANITARY DISTRICT
OAK ORCHARD FORCE
MAIN & EFFLUENT SEWER

MISCELLANEOUS DETAILS

FILE NO. 115.216-11F
DATE NOV 6, 1972
10



- Notes
1. Black on Yellow ReflectORIZED 1/8" Thick Alum. sign Material 3/4" Margin - 1" Legend
 2. Poles to straddle Pipe if possible. If not possible locate poles as close to centerline as practical



RECORD DRAWINGS
To the best of our knowledge, information and belief, these record drawings substantially represent the project as constructed.
O'BRIEN & GERE ENGINEERS, INC.
Checked by: [Signature] Date: 2/1/75
Made by: [Signature] Date: 2/1/75

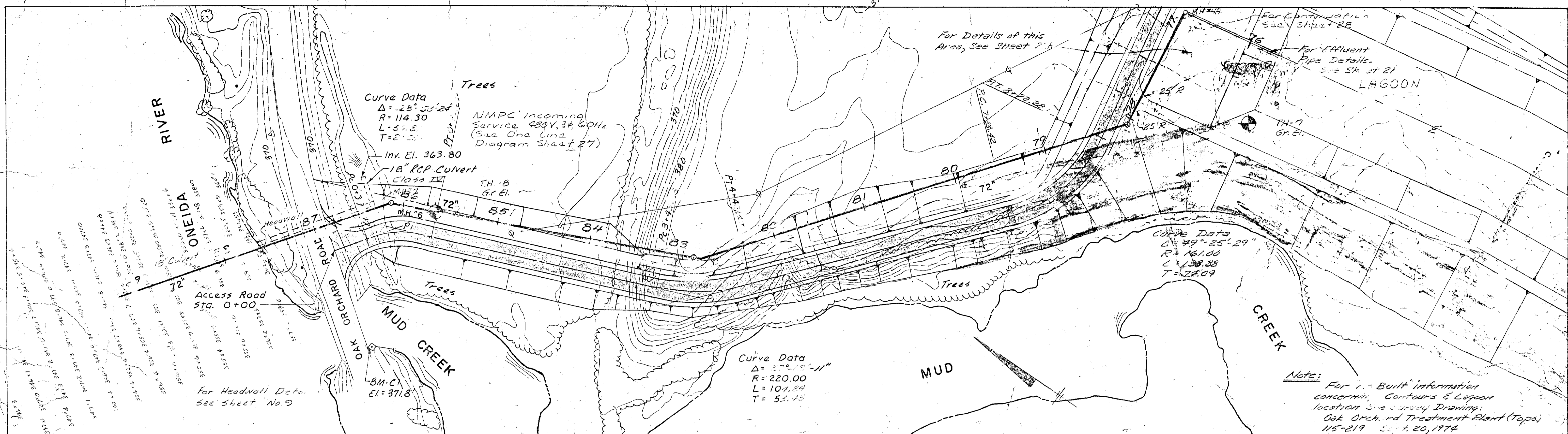
In charge of: [Signature]	5 0 5 10	NO.	DATE	REVISION	INIT.
Designed by: [Signature] Checked by: [Signature]	1" = 5'-0"	2	5/1/75	Revised 30" Connection Detail	[Signature]
Made by: [Signature]	1" = 10'	1	1/1/75	Added Sign Detail	[Signature]
	1" = 50'				

O'BRIEN & GERE ENGINEERS, INC.
Syracuse, New York

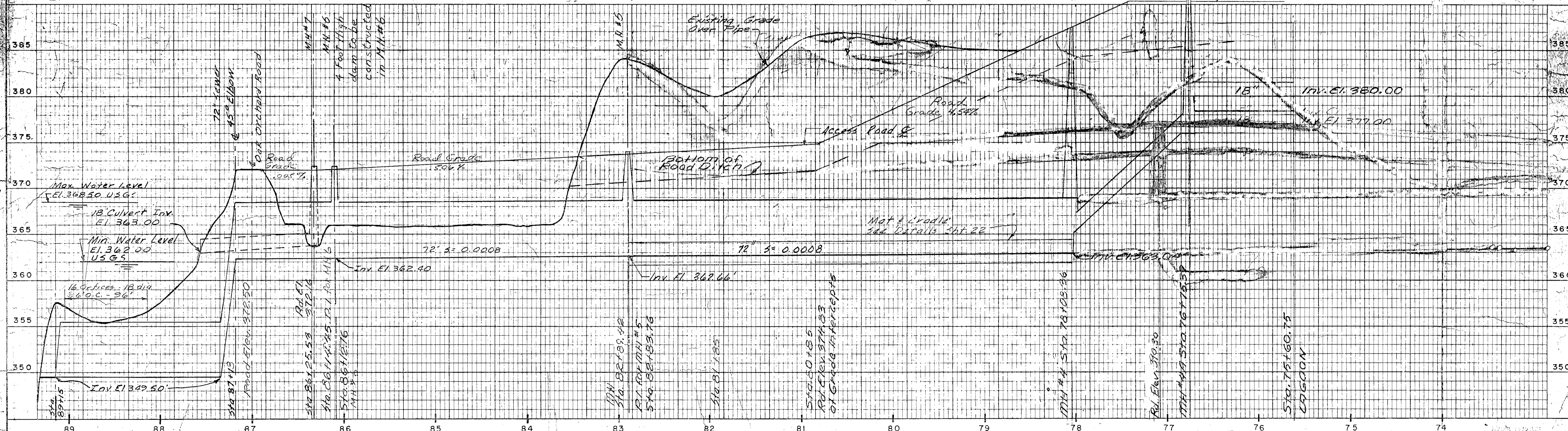
CLAY SANITARY DISTRICT
OAK ORCHARD FORCE MAIN & EFFLUENT SEWER

MISCELLANEOUS DETAILS

FILE NO.
115.216-12F
DATE
NOV. 6, 1972



PLAN
 SCALE 1" = 50'



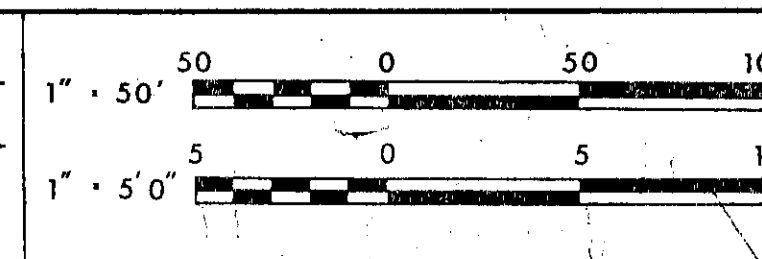
PROFILE
 SCALE: HORIZONTAL 1" = 50'
 VERTICAL 1" = 5'

Note:
 1. For Outfall Details See Sht. No 10
 2. M.H. #4 & M.H. #A to be raised to elevations shown.

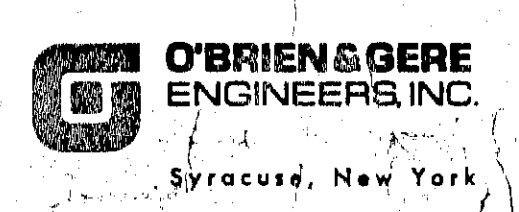
- 1 4/2/74 Relocated Access Road GBC
- 2 3/6/74 Updated Sheet 7 RGRM
- 3 2/28/74 Removed 18" RCP Culvert Class I MJD
- 4 2/28/74 Added Mat & Cradle to Profile MJD
- 5 1/21/74 Changed 18" pipe size of M.H.#6 dam depth. 4' MJD
- 6 1/21/74 Changed 18" pipe size of M.H.#5 MJD

NOTE: All manhole rim elevations to be set in field.

In charge of *[Signature]*
 Designed by *[Signature]* Checked by *[Signature]*
 Made by *[Signature]*



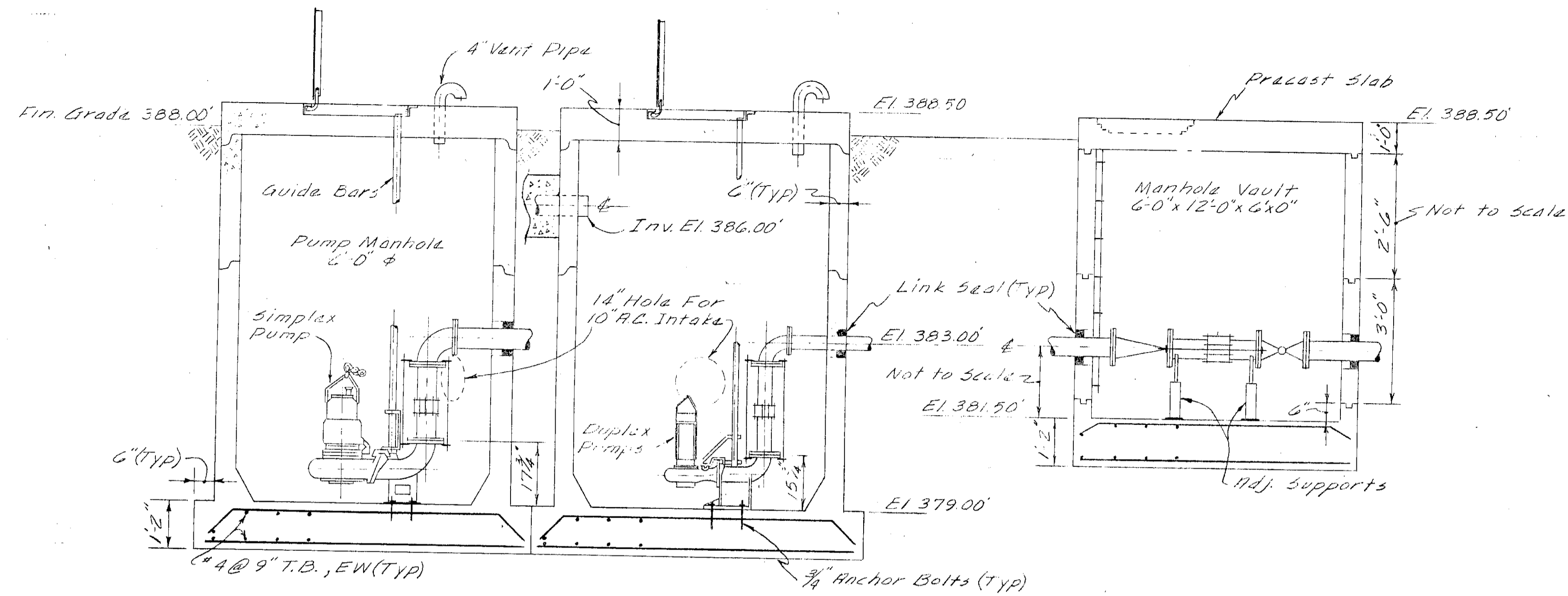
NO.	DATE	REVISION	INIT.
5	1/1/74	Change 18" pipe size of M.H.#6	GBC
4	5/1/73	Revised Plan @ 18" Culvert	MJD
3	5/1/73	Change Profile from Sta 83 to End	MJD
2	3/27	Change Outfall - M.H.#6 to M.H.#1	MJD
1	3/26	Rim El. M.H.#4 & M.H.#5	RMS



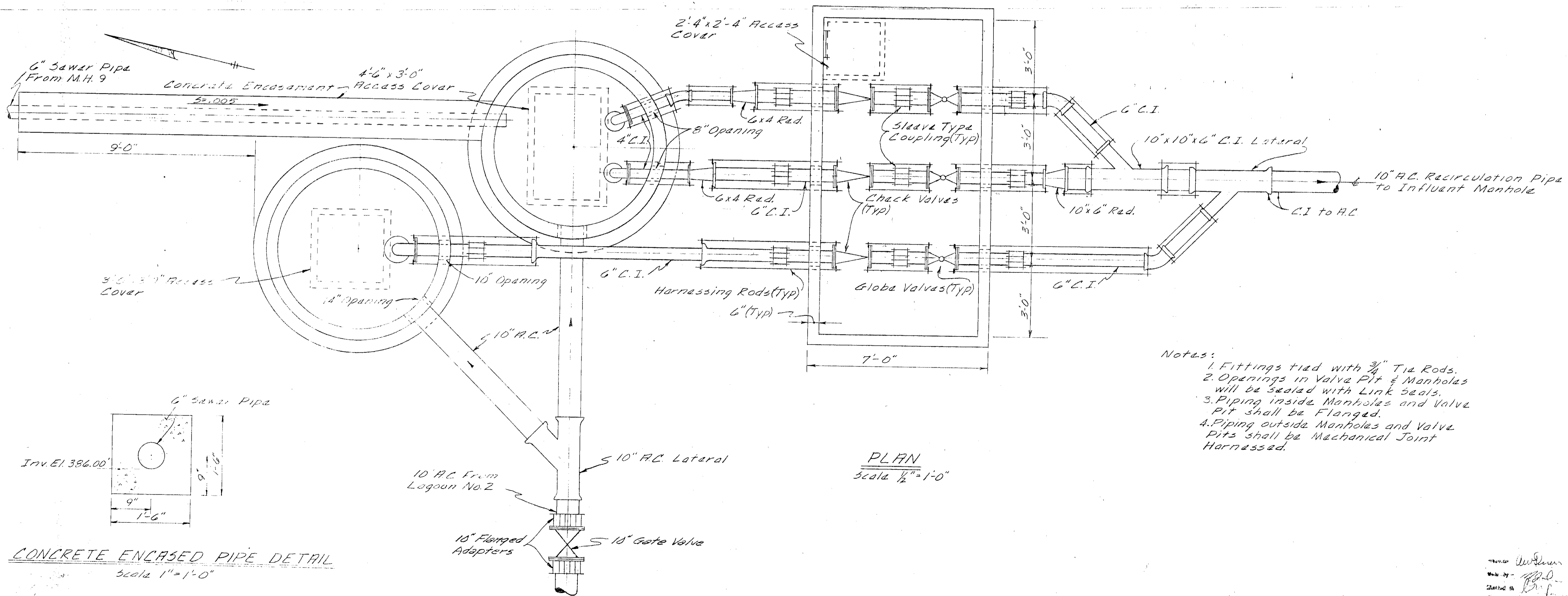
CLAY SANITARY DISTRICT
 OAK ORCHARD FORCE
 MAIN & EFFLUENT SEWER

**EFFLUENT SEWER
 PLAN & PROFILE**

FILE NO. 115.216-20F	19
DATE NOV. 6, 1972	



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



- Notes:
1. Fittings tied with 3/4" Tie Rods.
 2. Openings in Valve Pit & Manholes will be sealed with Link Seals.
 3. Piping inside Manholes and Valve Pit shall be Flanged.
 4. Piping outside Manholes and Valve Pits shall be Mechanical Joint Harnessed.

CONCRETE ENCASED PIPE DETAIL
Scale 1" = 1'-0"

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

RECORD DRAWING
If the user has our knowledge, in execution and detail, these record drawings substantially represent the project as constructed.

Checked by *[Signature]* Date 2/17/75
 Made by *[Signature]* Date 2/17/75
 Project No. 399-A-8C

O'BRIEN & GERE
ENGINEERS, INC.
[Signature]

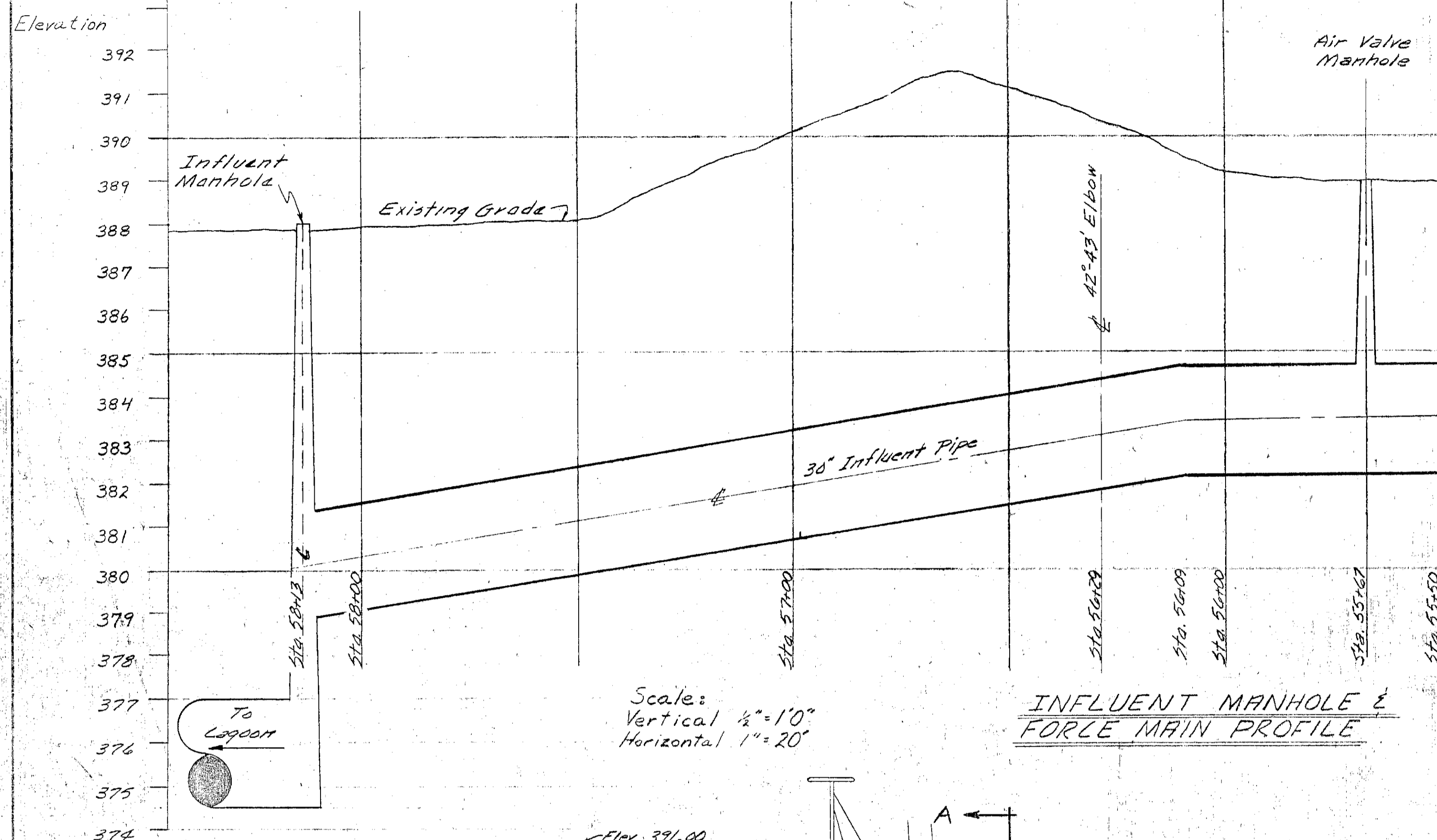
NO.	DATE	REVISION	INIT.
2	3-4-74	Added Concrete Encasement	MJD
1	2-19-74	Updated Drawing	MJD

O'BRIEN & GERE
ENGINEERS, INC.
Syracuse, New York

CLAY SANITARY DISTRICT
OAK ORCHARD LAGOONS

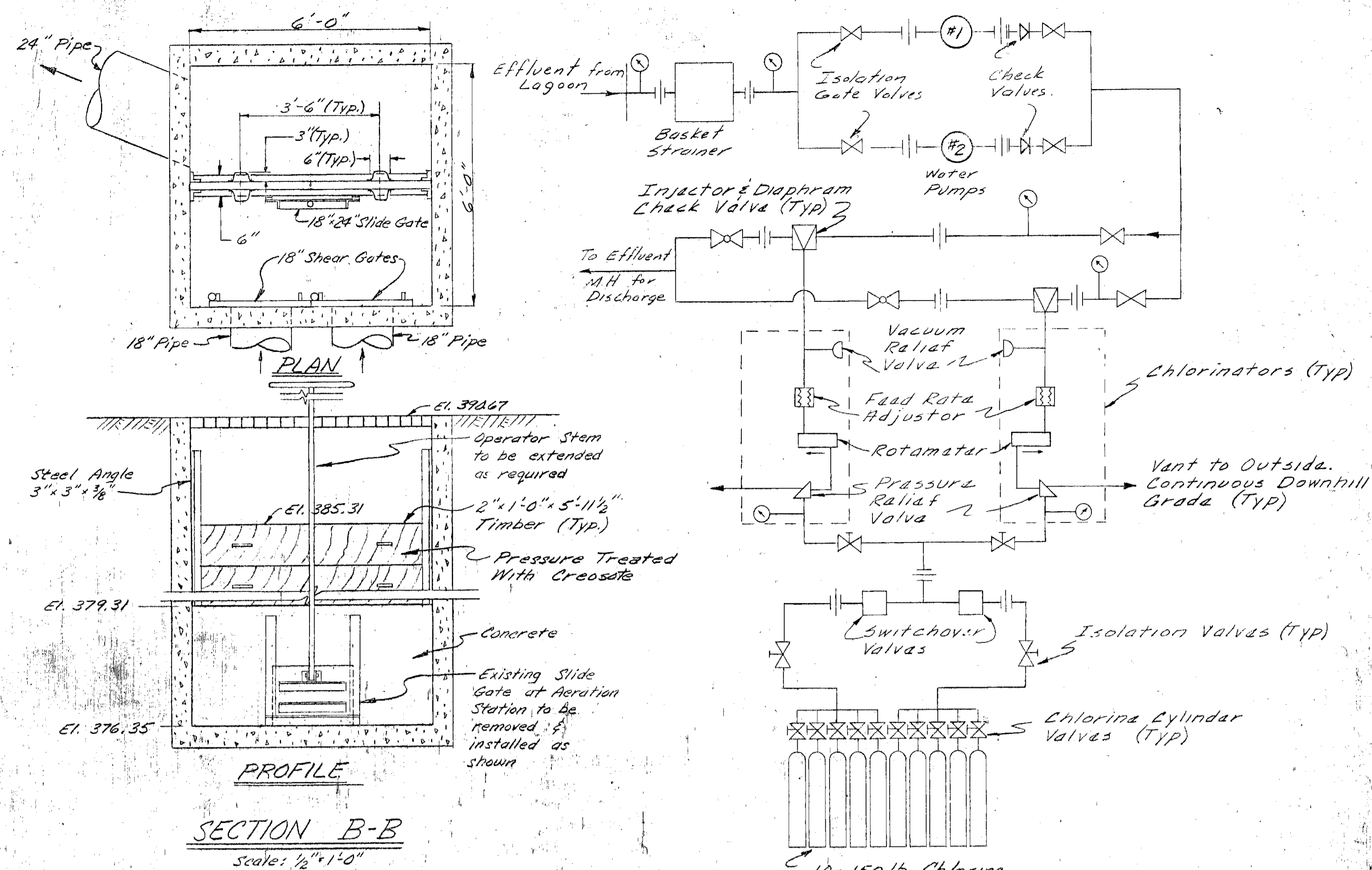
RECIRCULATION SYSTEM
PLAN & PROFILE

FILE NO.
115-216-21F
DATE
10-18-73
20

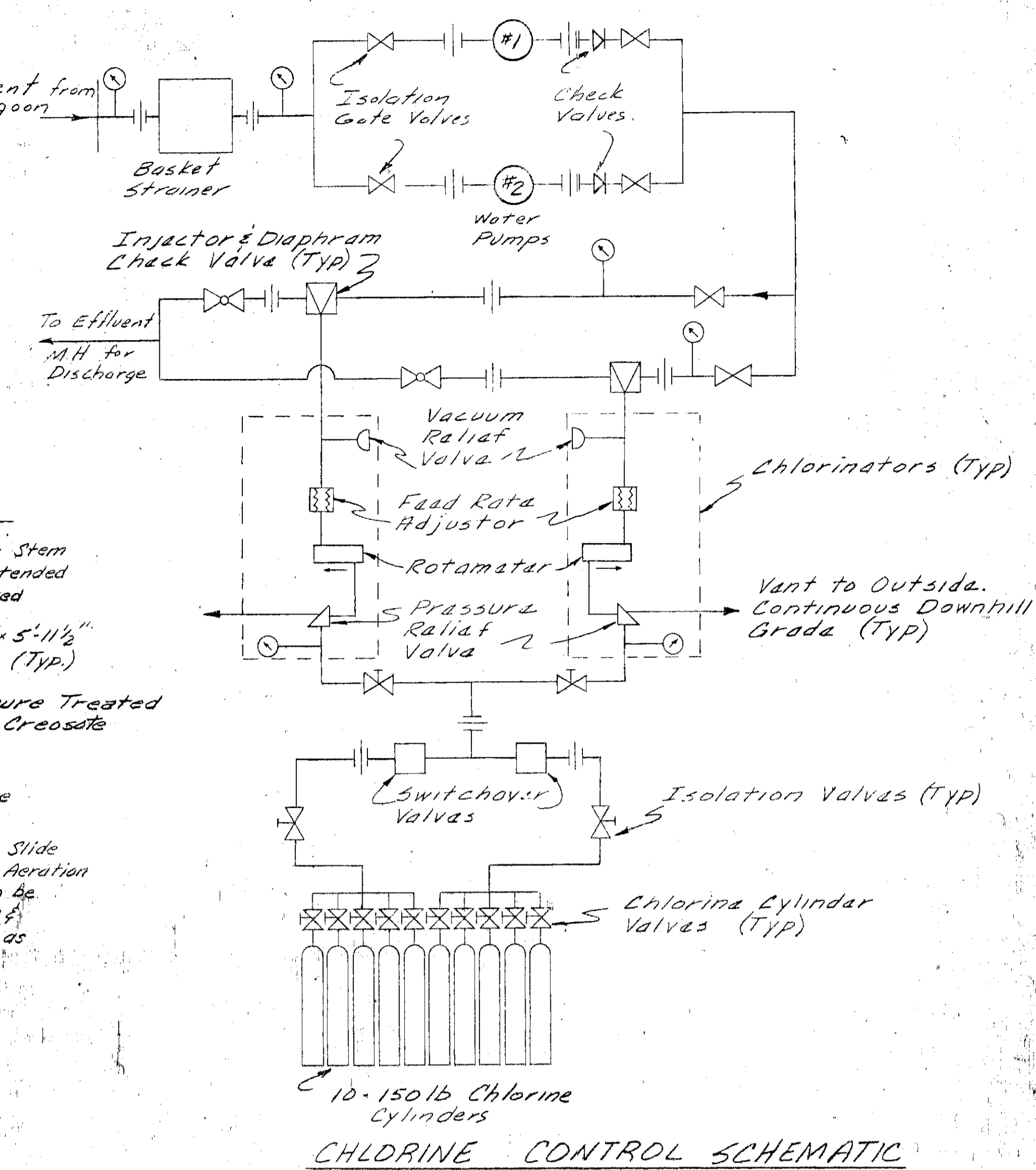


Scale:
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Horizontal 1" = 20'

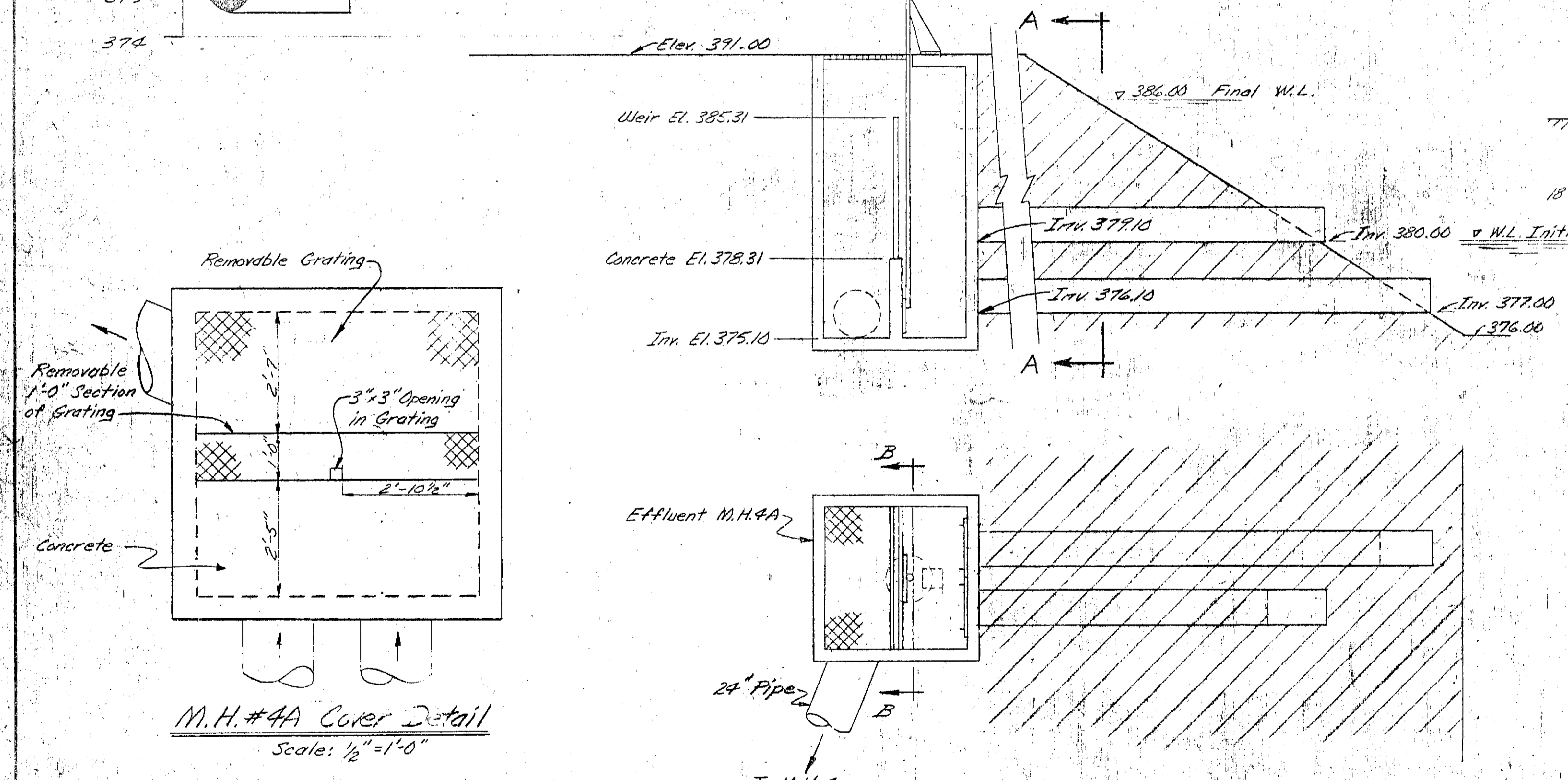
INFLUENT MANHOLE & FORCE MAIN PROFILE



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

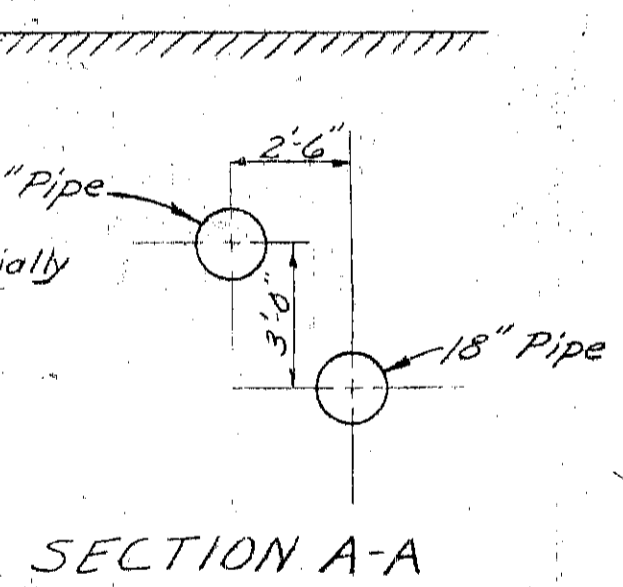


CHLORINE CONTROL SCHEMATIC

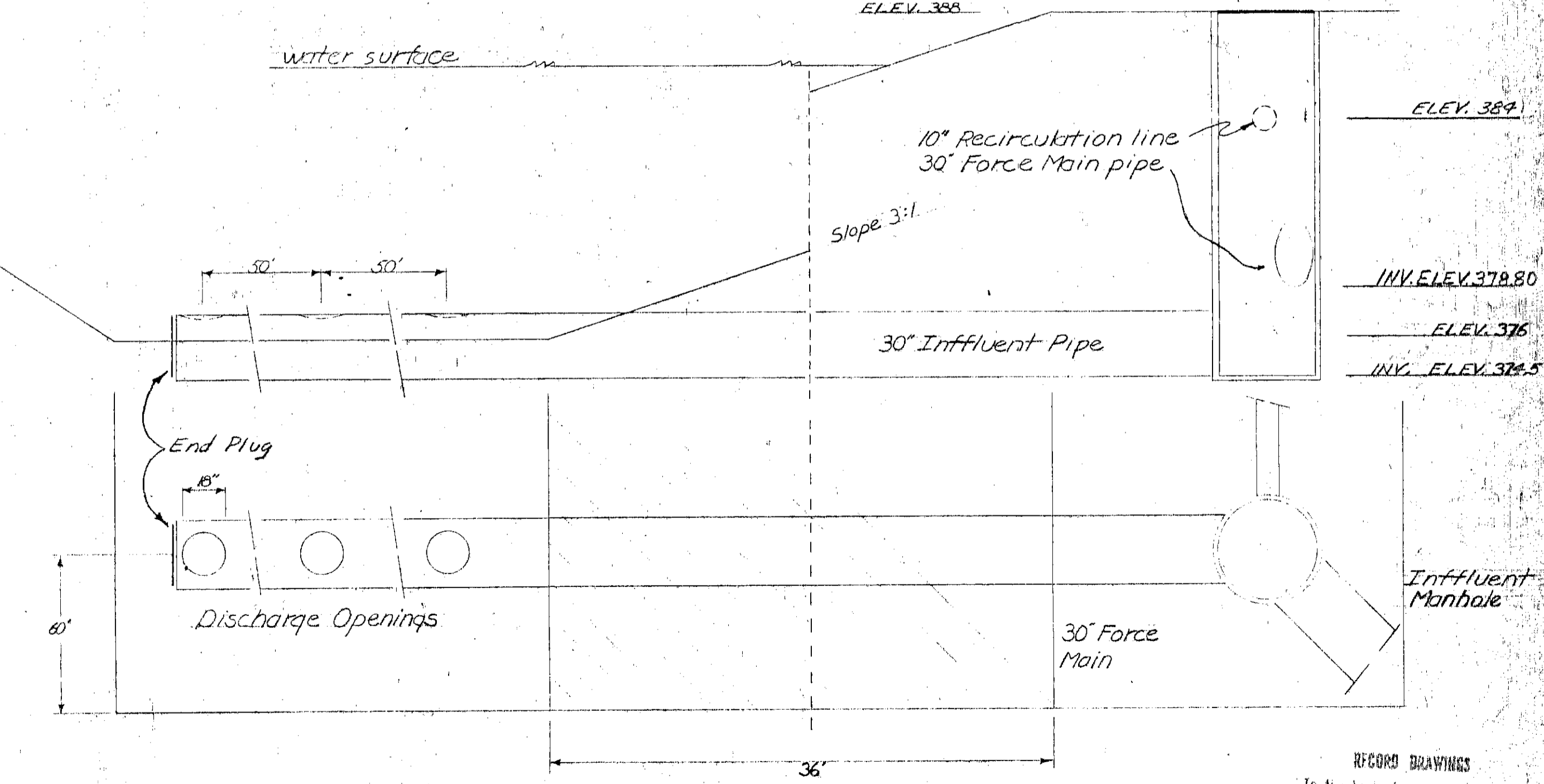


M.H.#4A Cover Detail
Scale: 1/2" = 1'0"

Effluent Piping Plan and Profile



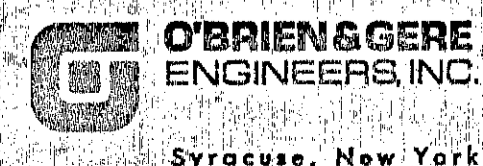
SECTION A-A



Influent Manhole Plan



NO.	DATE	REVISION	INIT.
1	6/14/74	UPDATED DRAWING 16	MJD
2	11/14/74	REVISED 18\"/>	

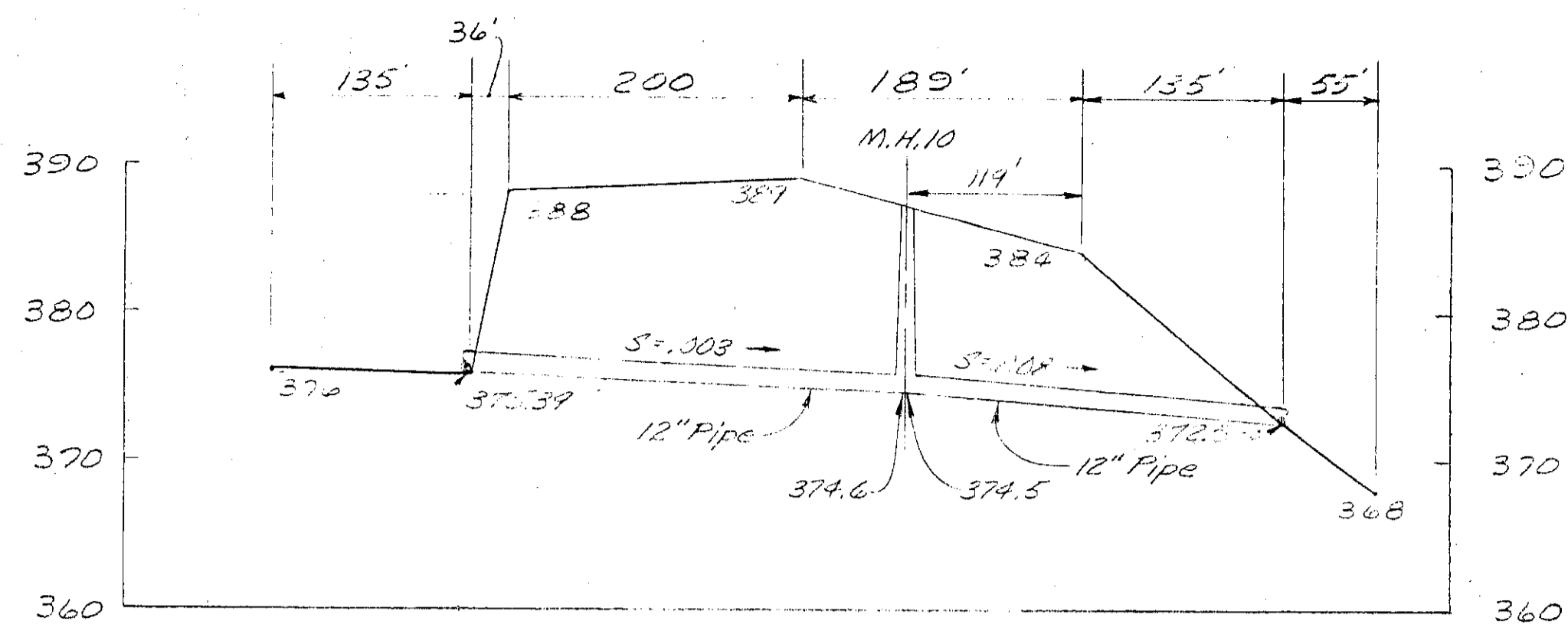


CLAY SANITARY DISTRICT
OAK ORCHARD LAGOONS

MISCELLANEOUS DETAILS

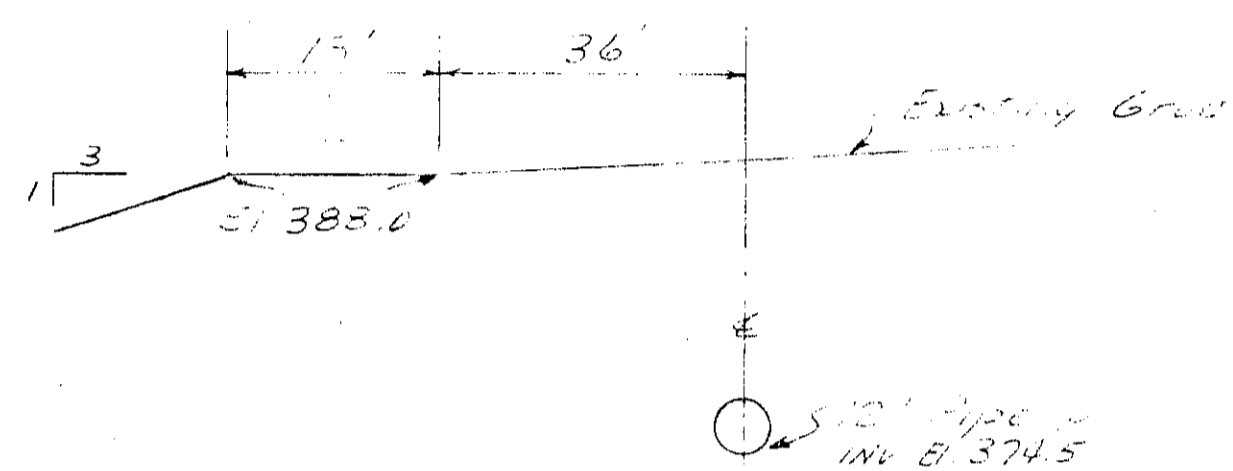
FILE NO. 115-216-22F	21
DATE 10-18-73	

RECORD DRAWINGS
To the best of our knowledge, information and belief, these record drawings substantially represent the project as constructed.
O'BRIEN & GERE ENGINEERS, INC.
DATE: 10/17/75
DRAWN BY: [Signature]
CHECKED BY: [Signature]



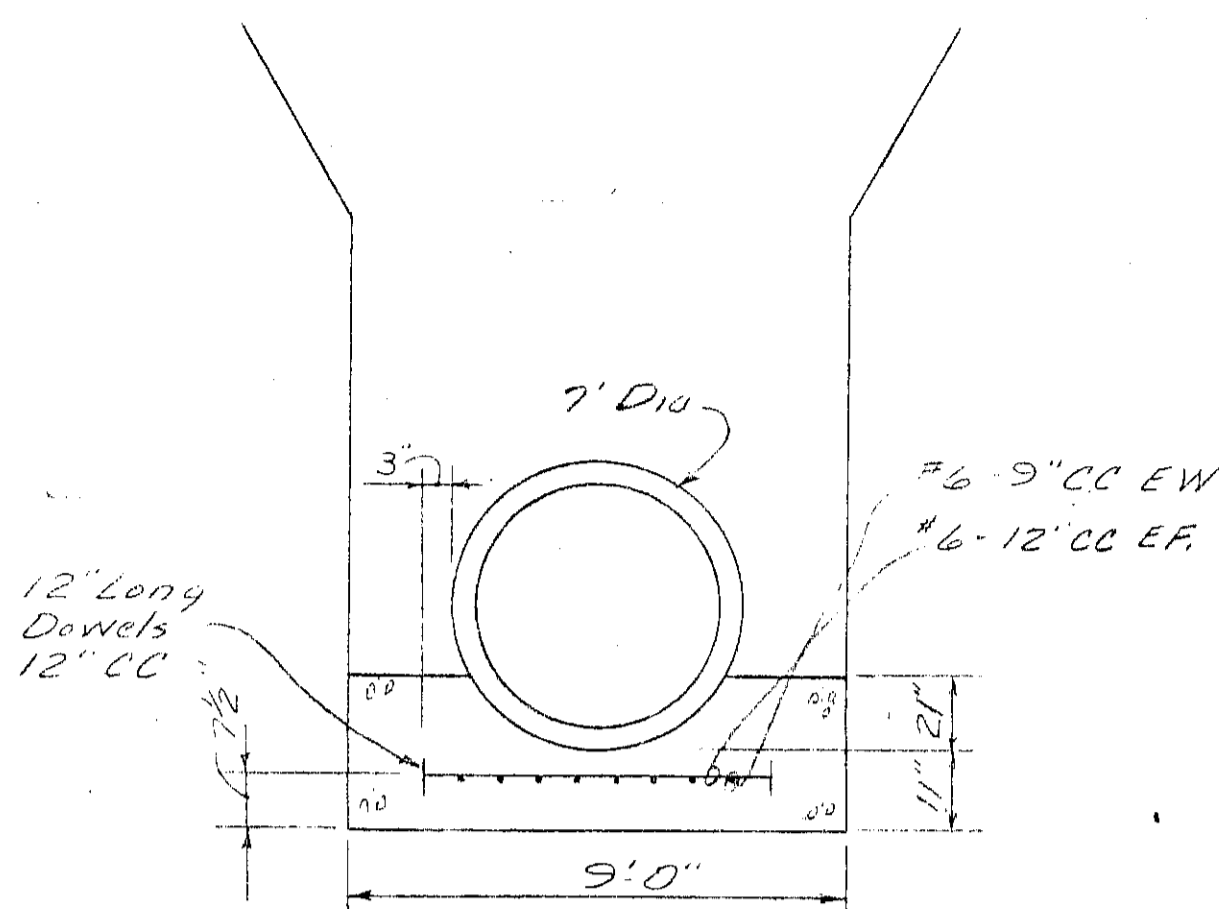
PROFILE 12" DRAIN PIPE

Scale Horiz 1"=10'
Vert 1"=10'



SECTION 12" DRAIN PIPE

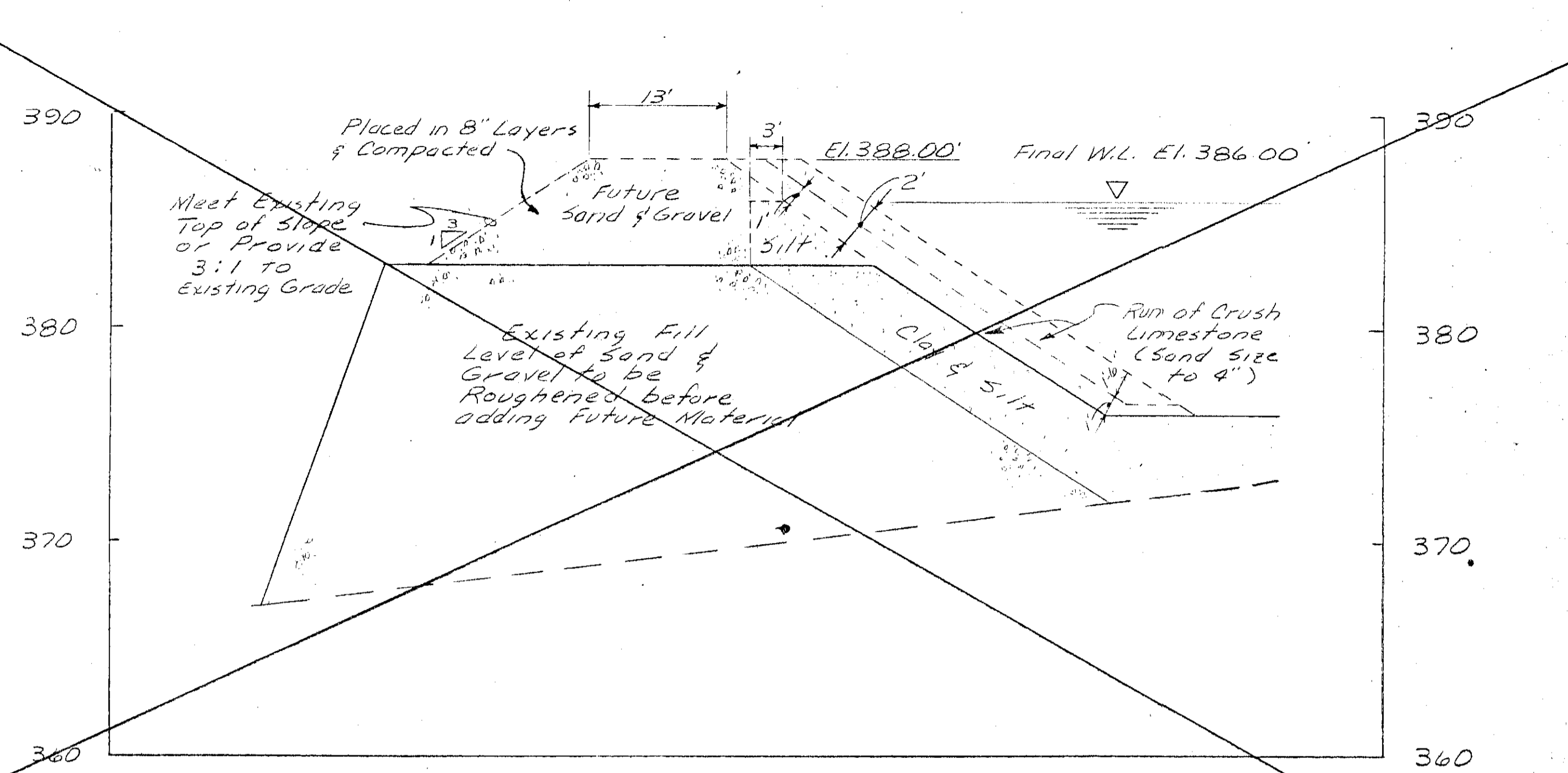
No scale



MAT & CRADLE DETAIL

STA. 73+08 TO STA. 82+83

No Scale

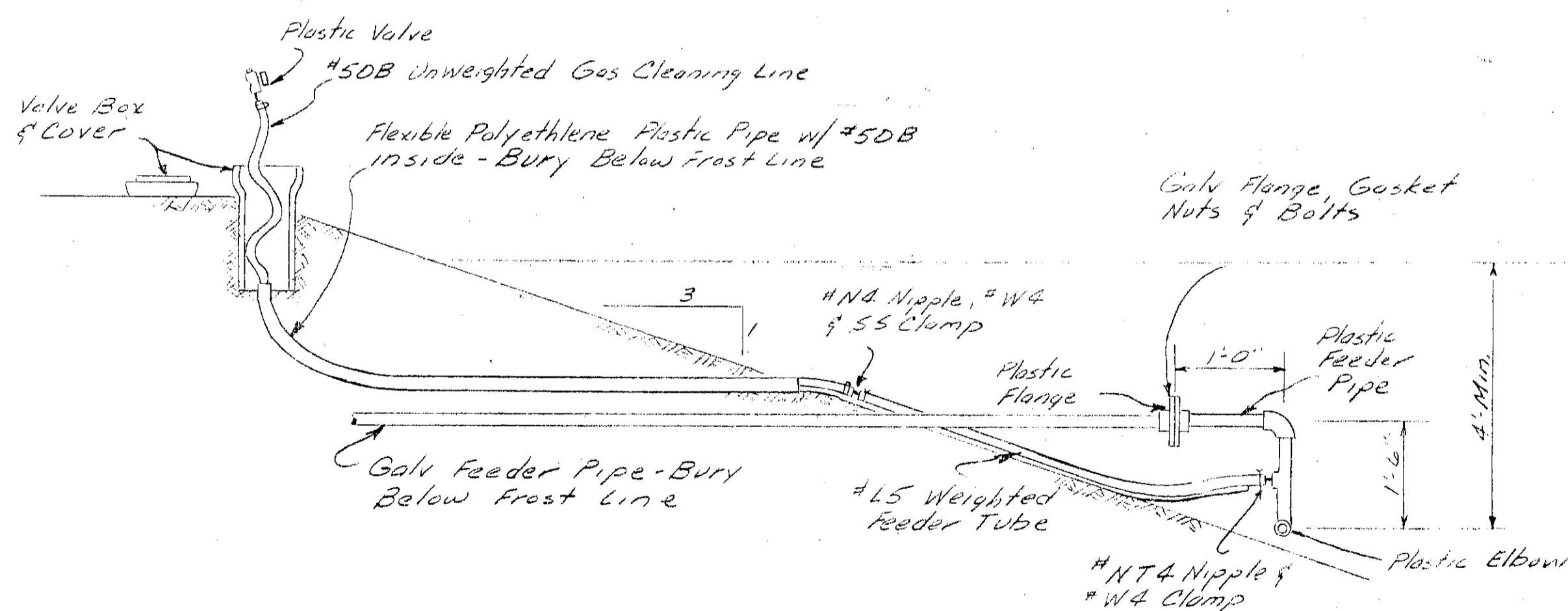


TYPICAL SECTION WEST BERM

Scale Horiz 1"=10'
Vert 1"=5'

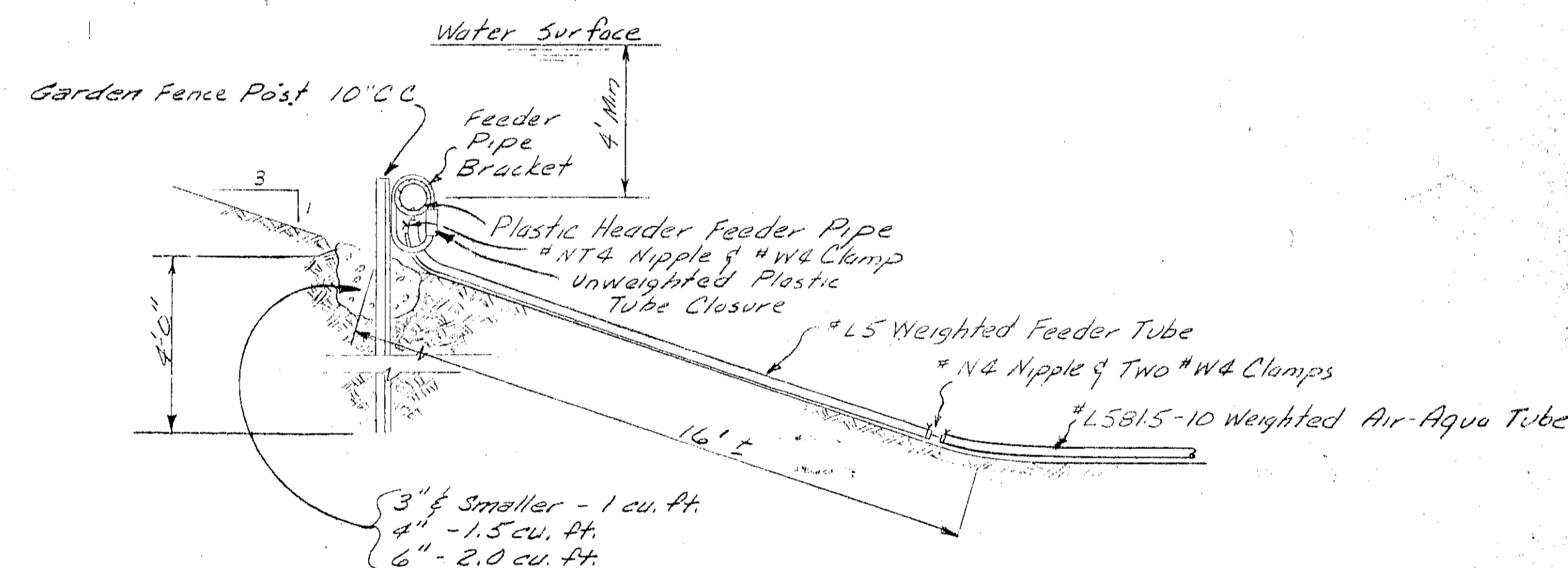
LEGEND

- Original Grade
- Present Grade
- - - Future Grade



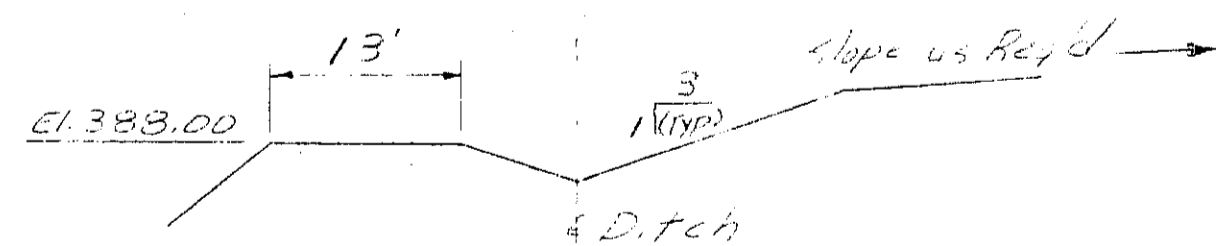
GALV-TO-PLASTIC PIPE CONNECTION w/ GAS CLEANING LINE-DETAIL #1

No Scale



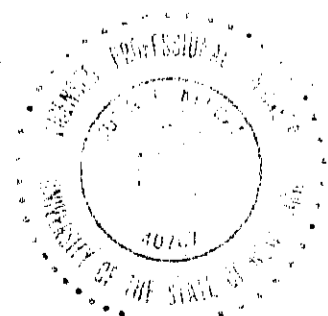
PLASTIC HEADERED FEEDER PIPE SUPPORT-DETAIL #2

No Scale



TYPICAL DITCH DETAIL

No Scale



In charge of W.M.M.
Designed by W.M.M. Checked by W.M.M.
Made by J.K.

NO.	DATE	REVISION	INIT.



CLAY SANITARY DISTRICT
OAK ORCHARD LAGOONS

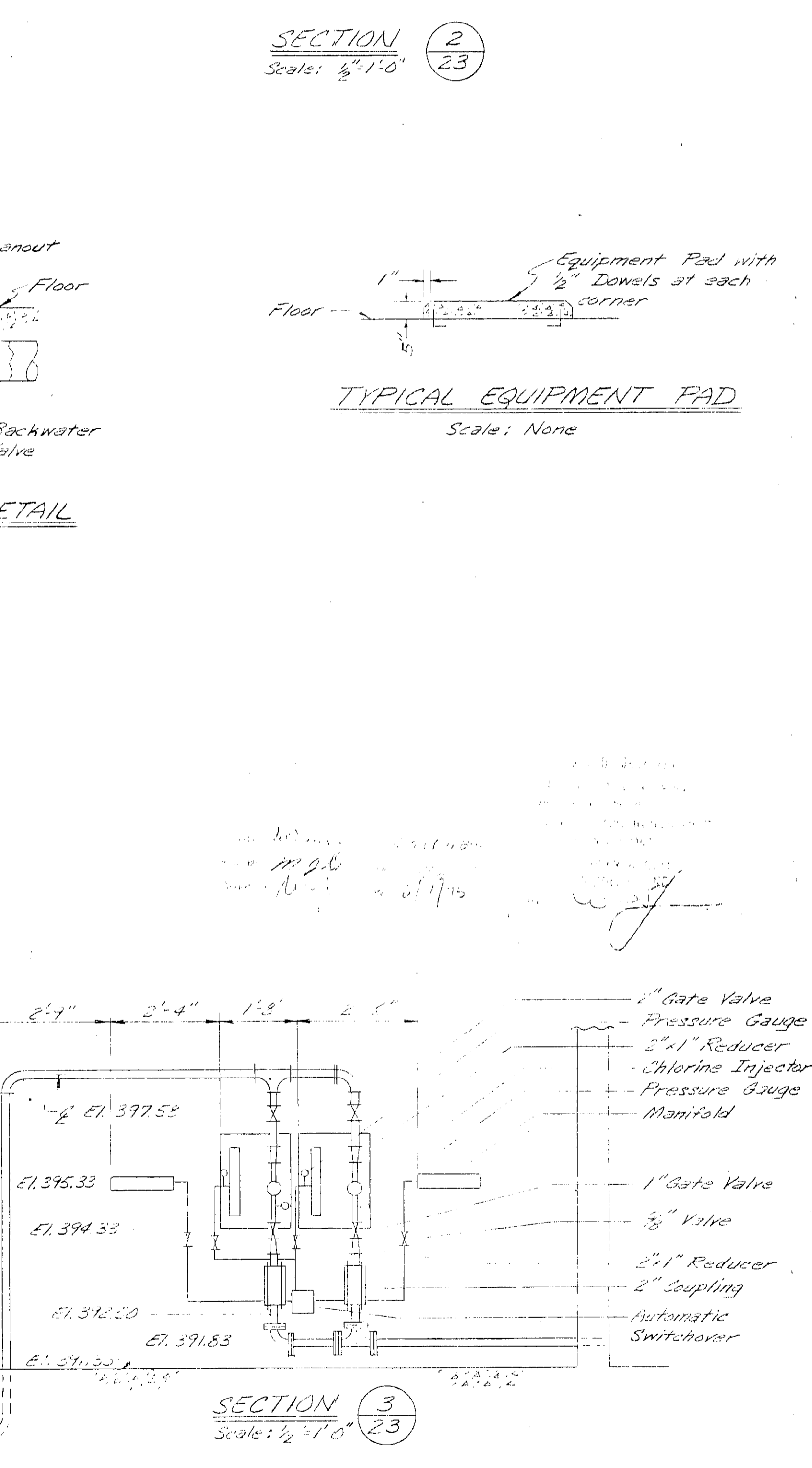
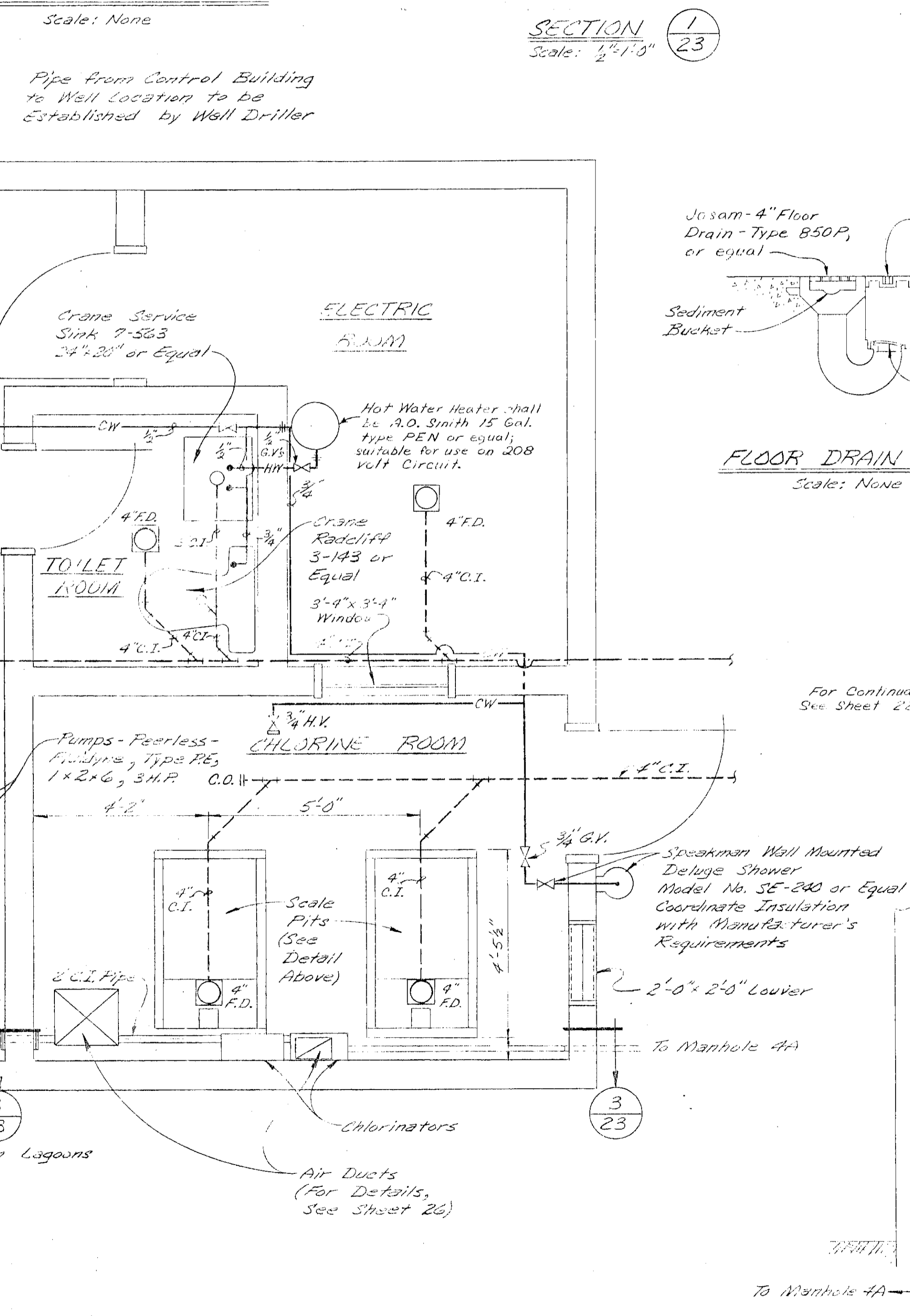
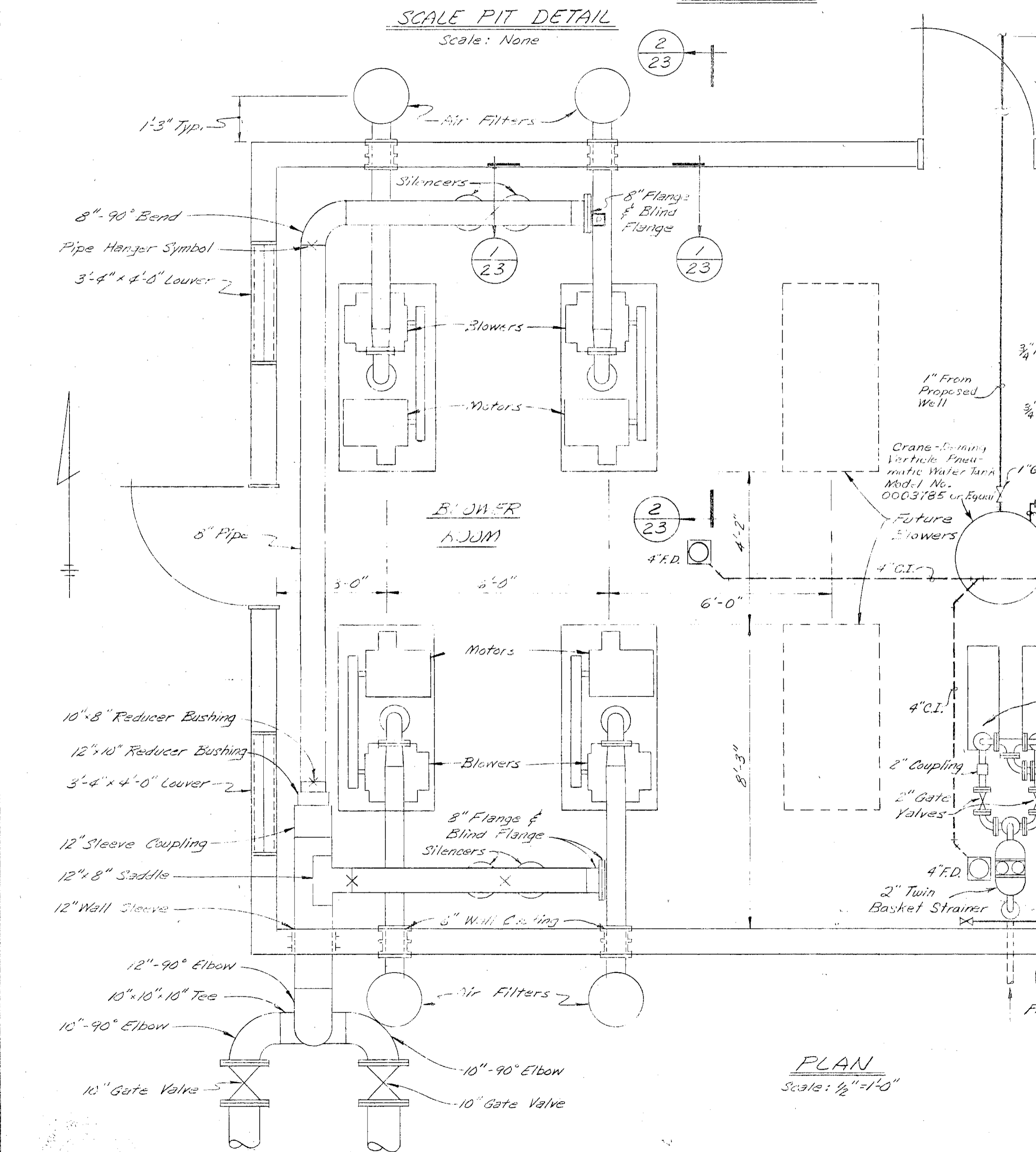
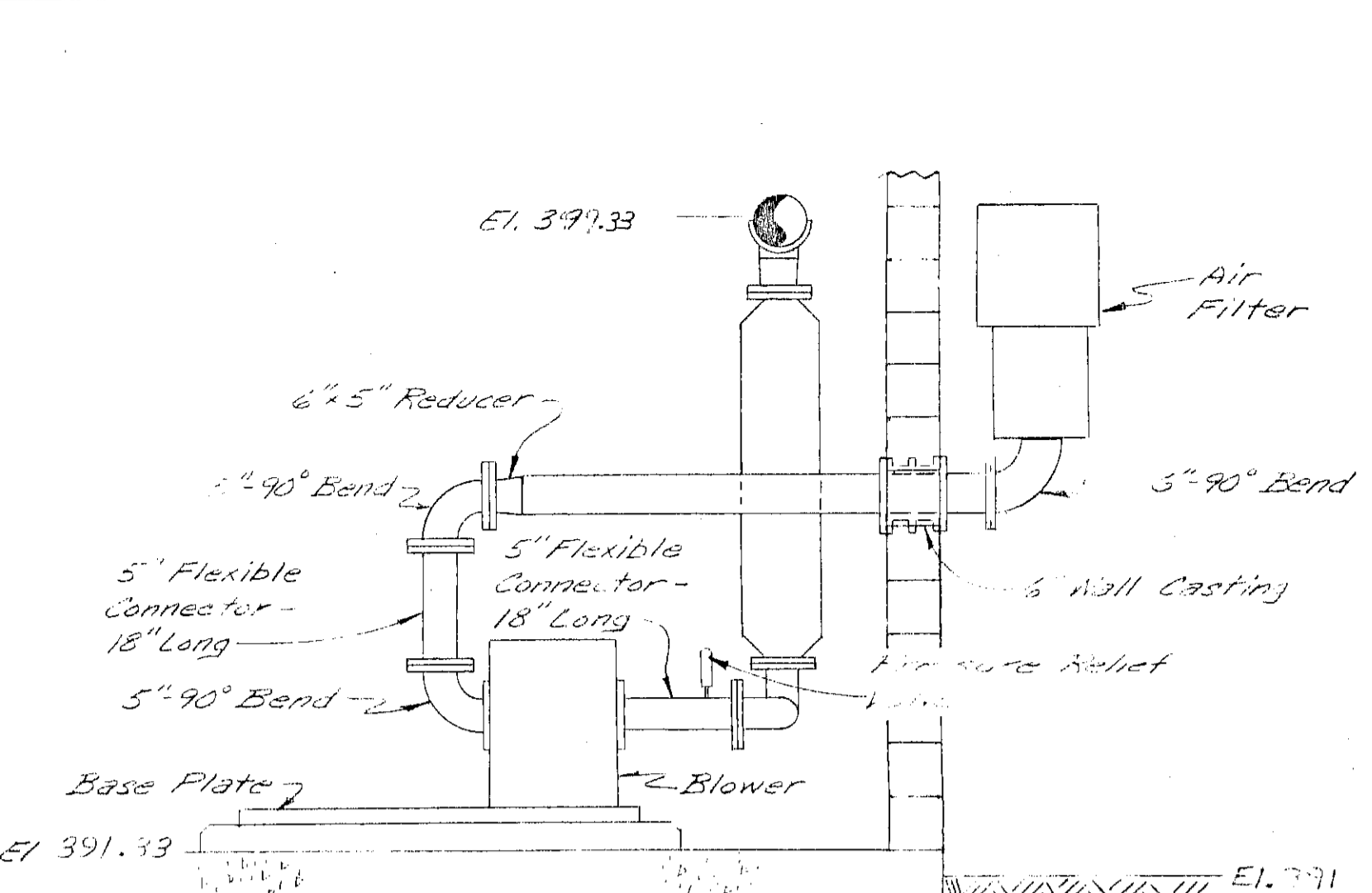
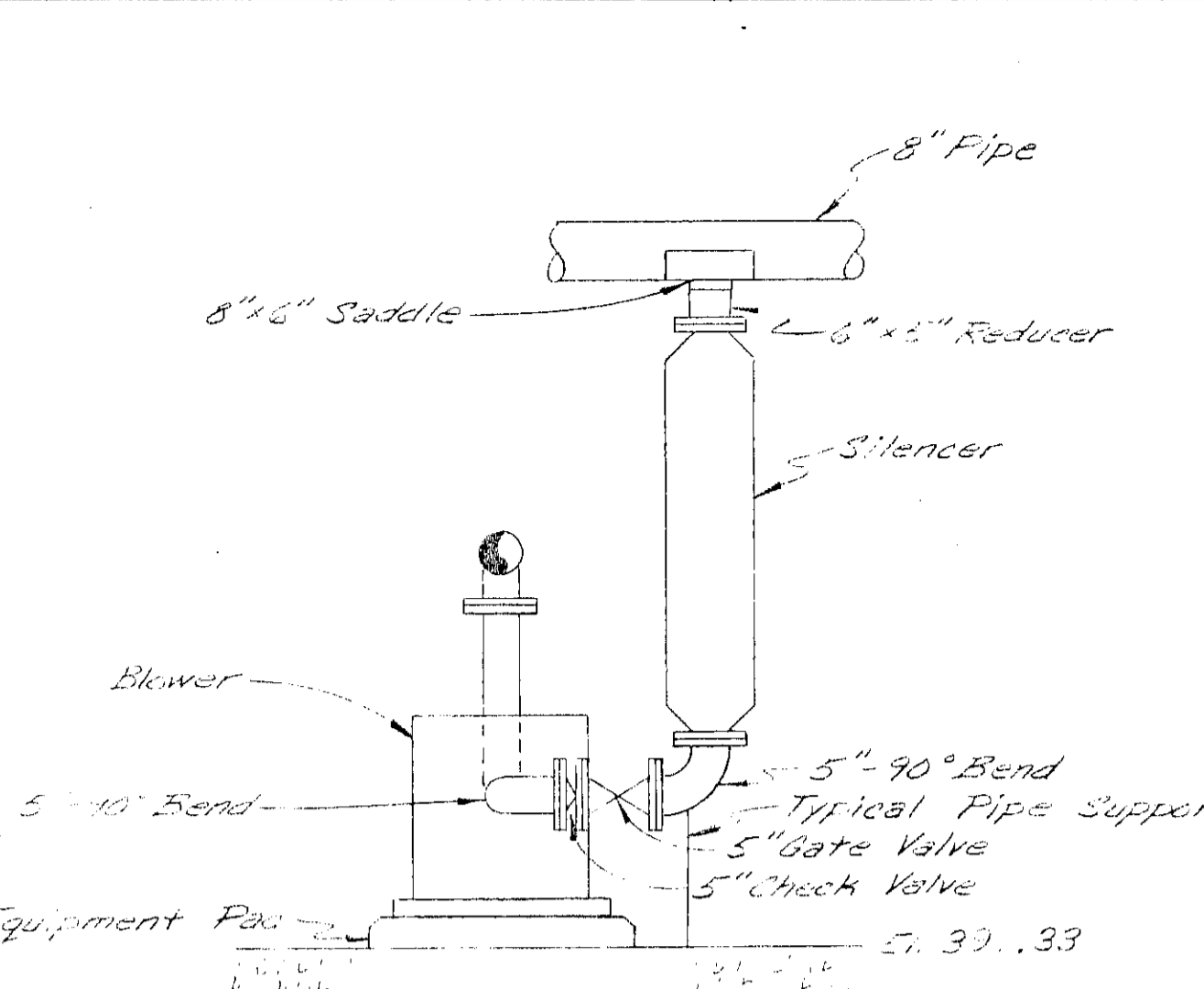
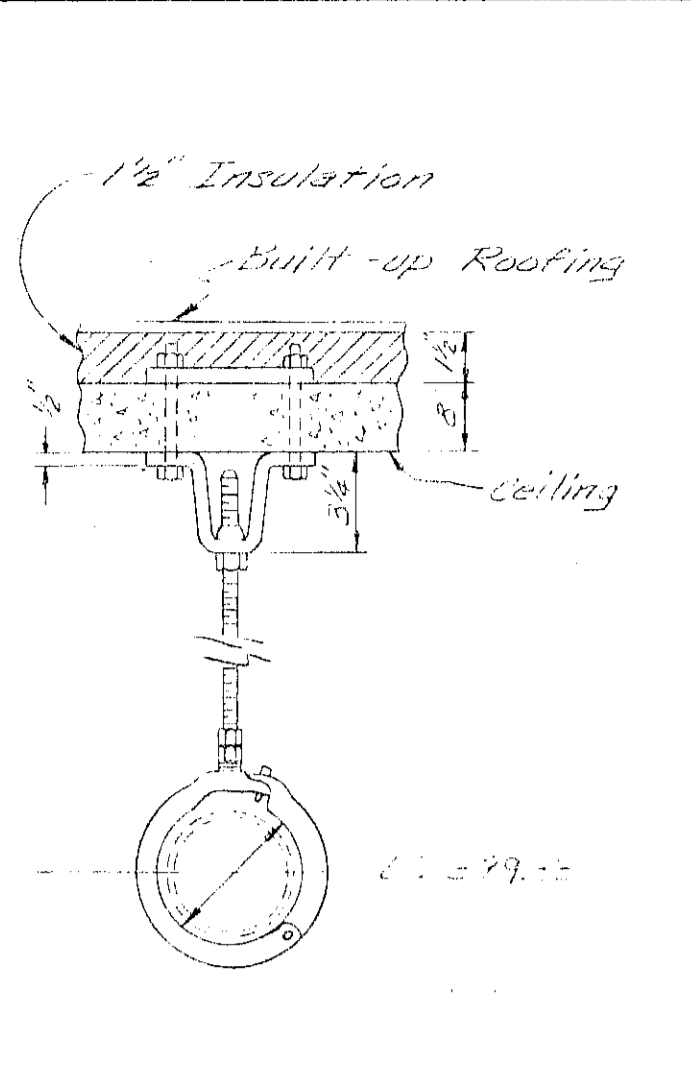
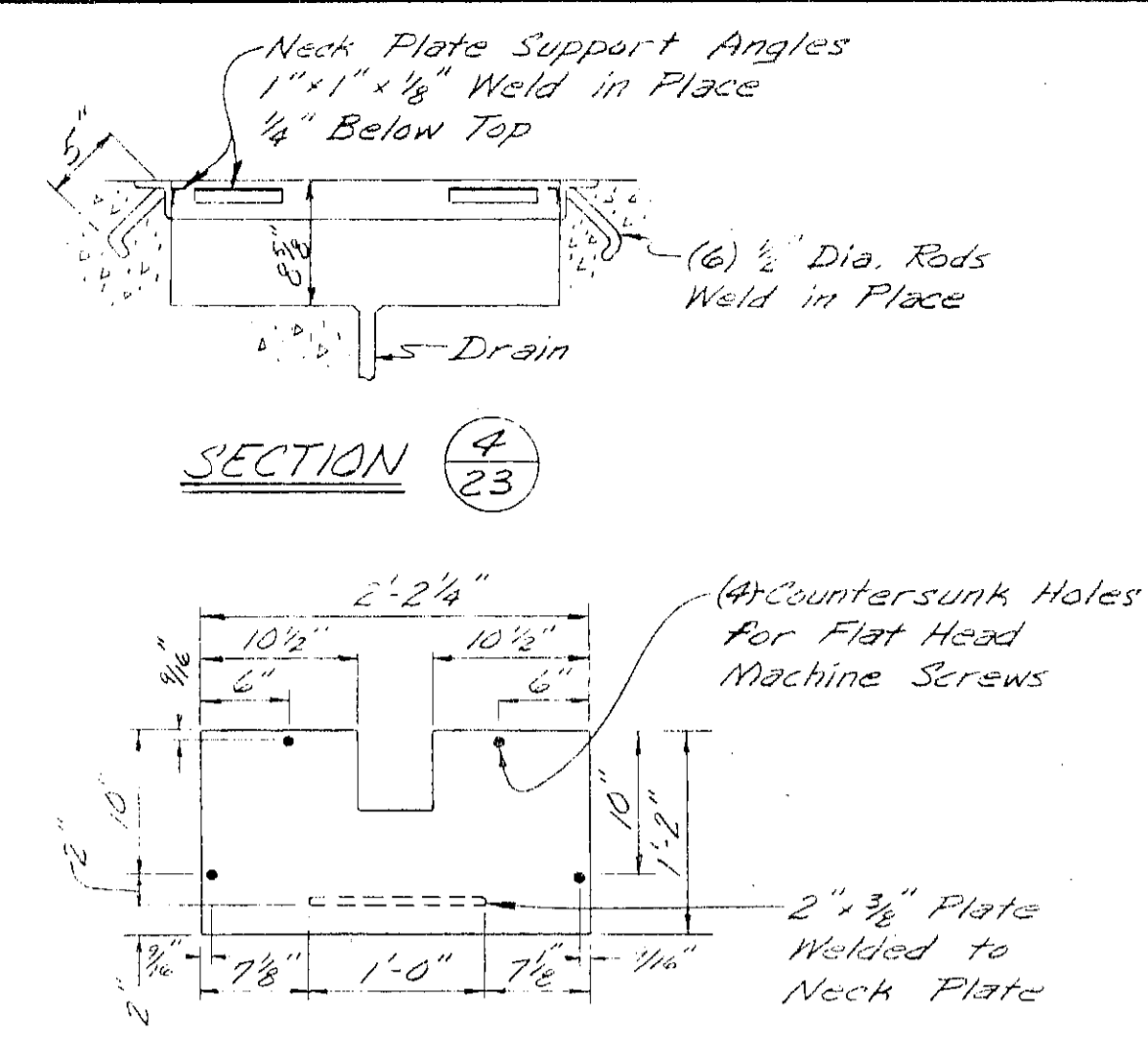
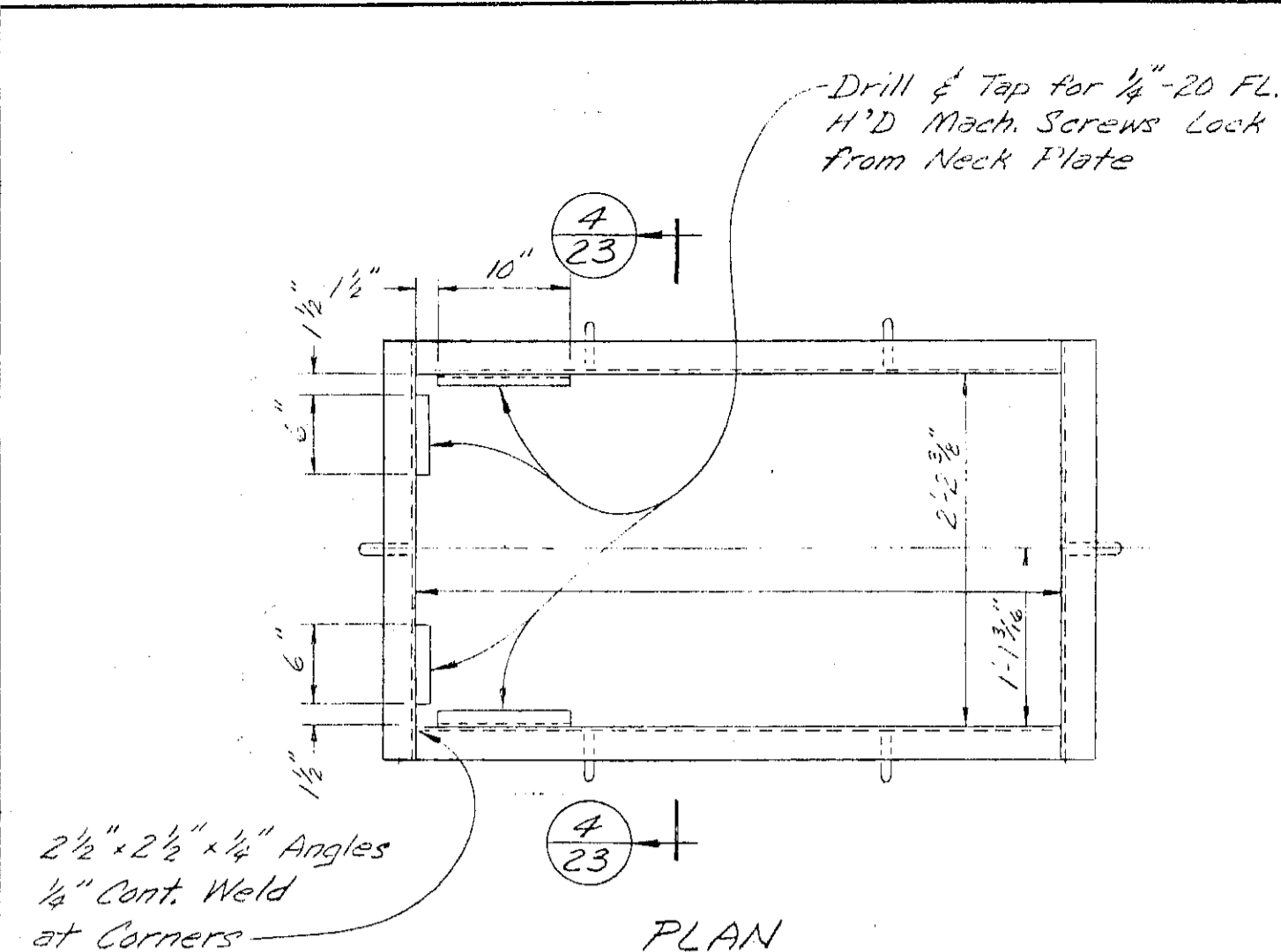
MISCELLANEOUS DETAILS

FILE NO.	115.216-23F
DATE	2-21-74

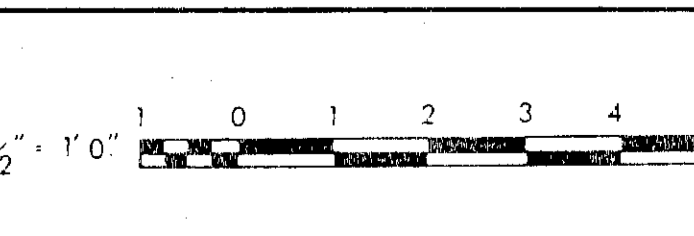
RECORD DRAWINGS
To the best of our knowledge, information and belief, these record drawings substantially conform to the work as constructed.

Drawn by W.M.M. No. 399-A-B-C
Checked by J.K. Date 2/2/75
Checked by J.K. Date 2/1/75

O'Brien & Gere
ENGINEERS, INC.
W.M.M.



In charge of *[Signature]*
 Designed by *[Signature]* Checked by *[Signature]*
 Made by *[Signature]*



NO.	DATE	REVISION	INIT.

O'BRIEN & GERE
 ENGINEERS, INC.
 Syracuse, New York

CLAY SANITARY DISTRICT
 OAK ORCHARD LAGOONS

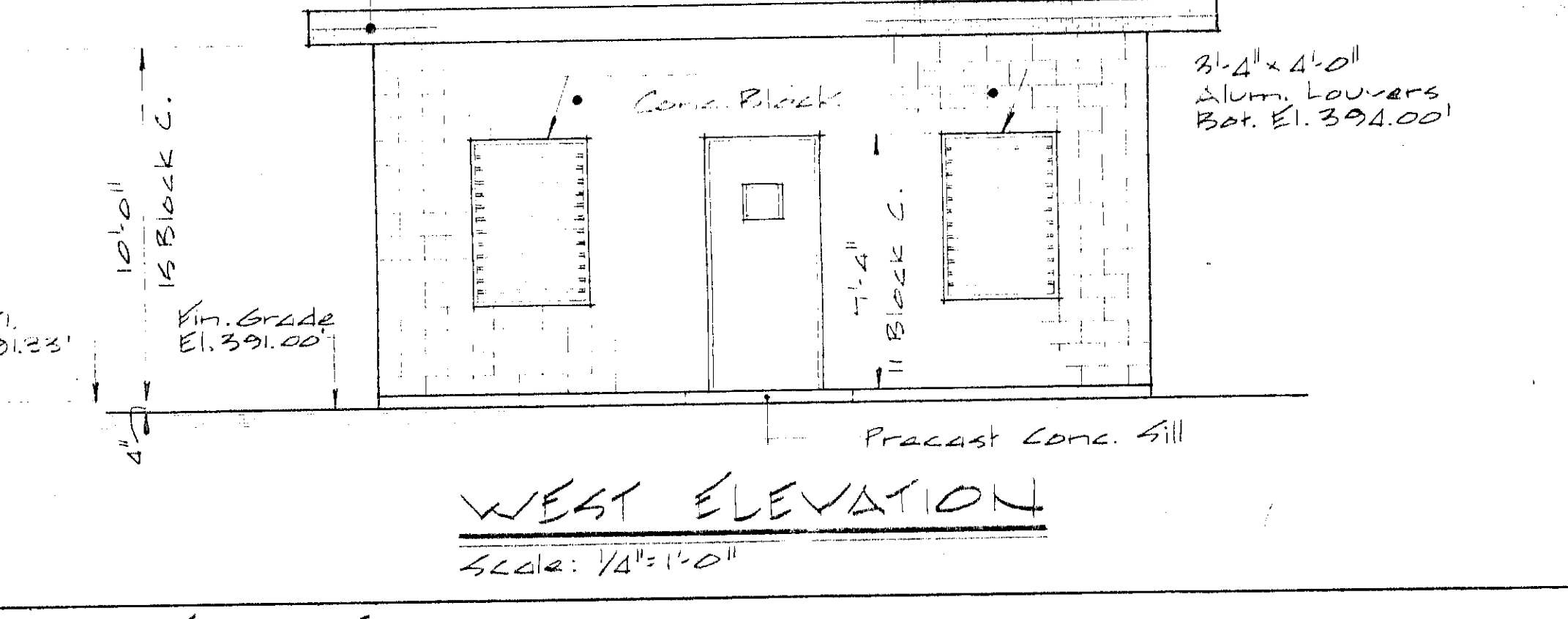
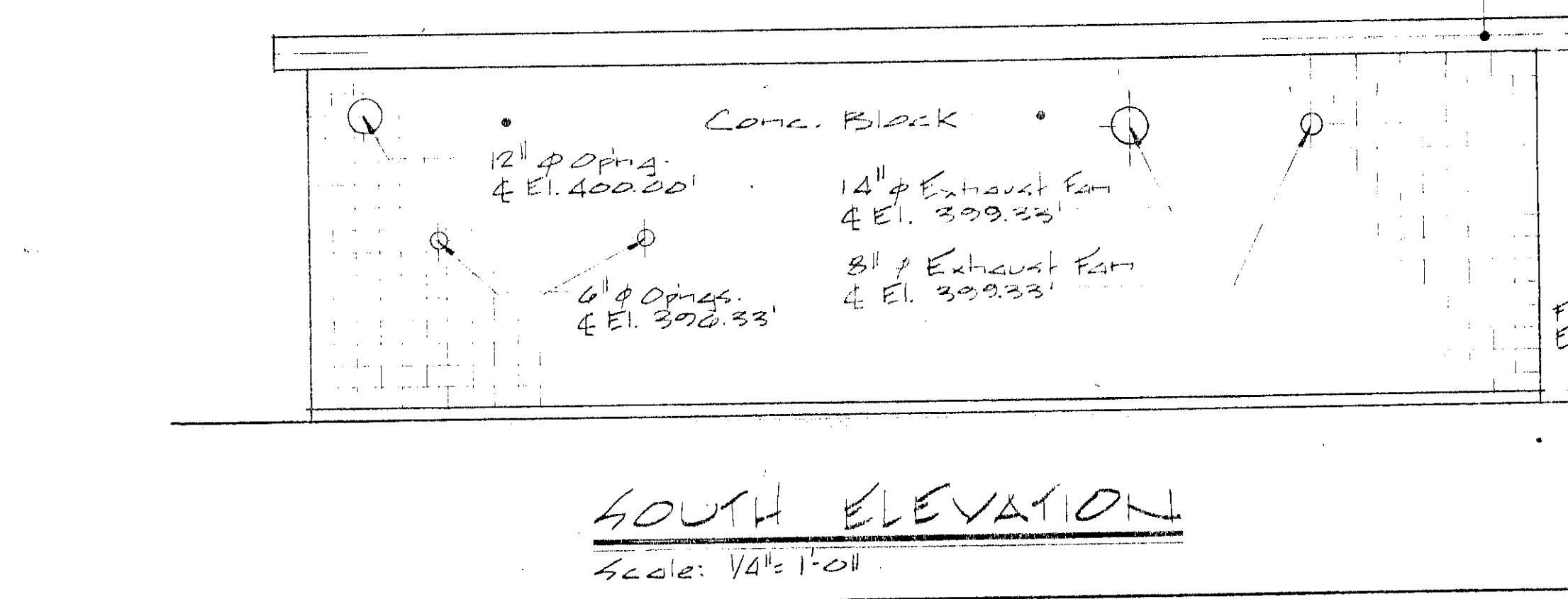
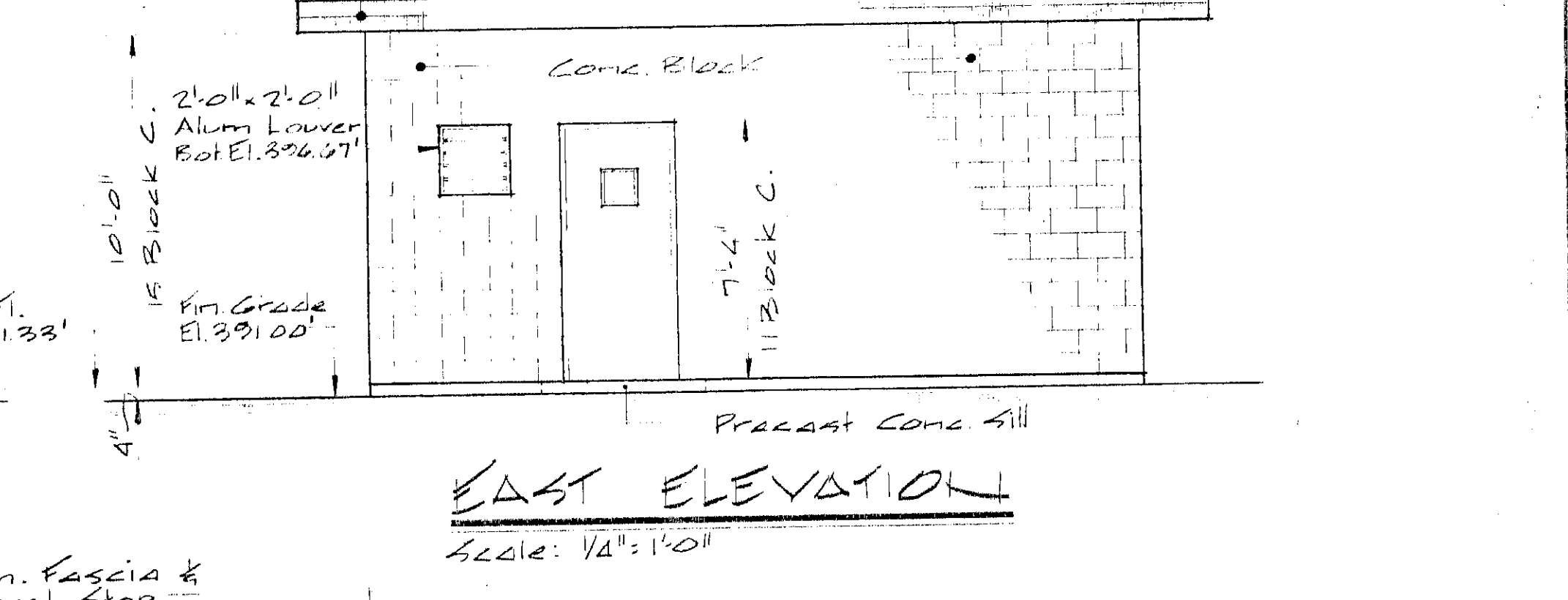
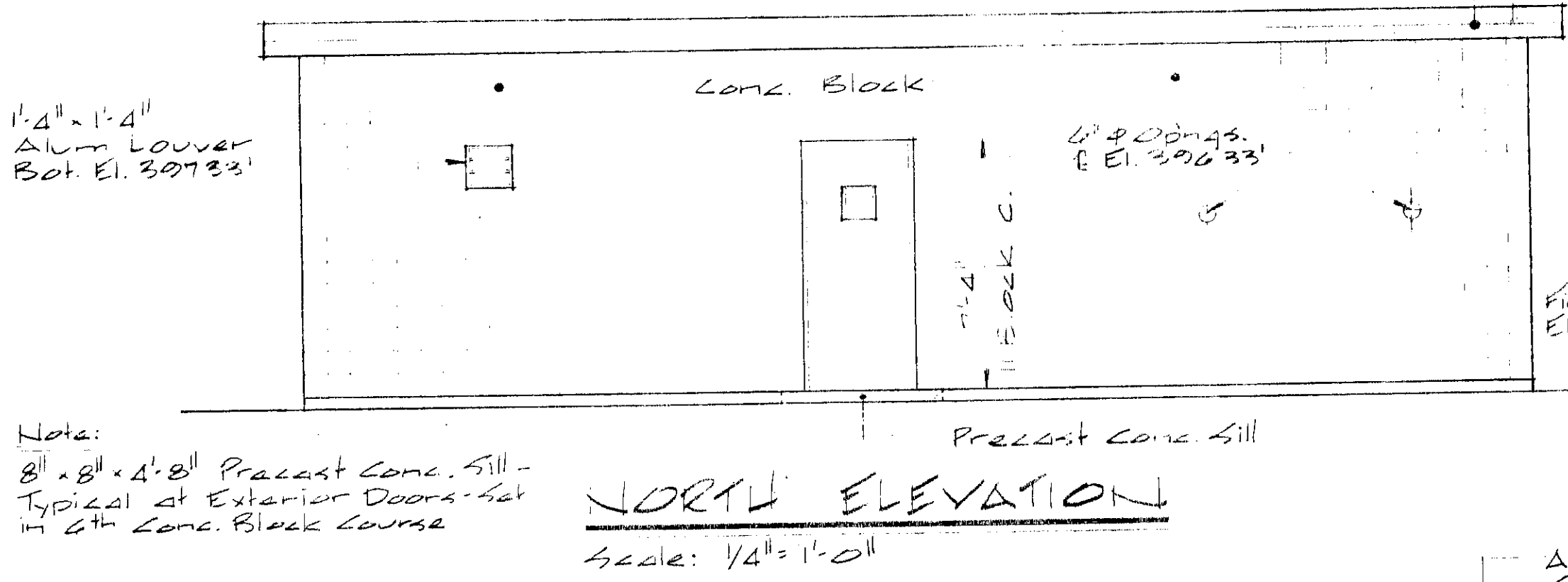
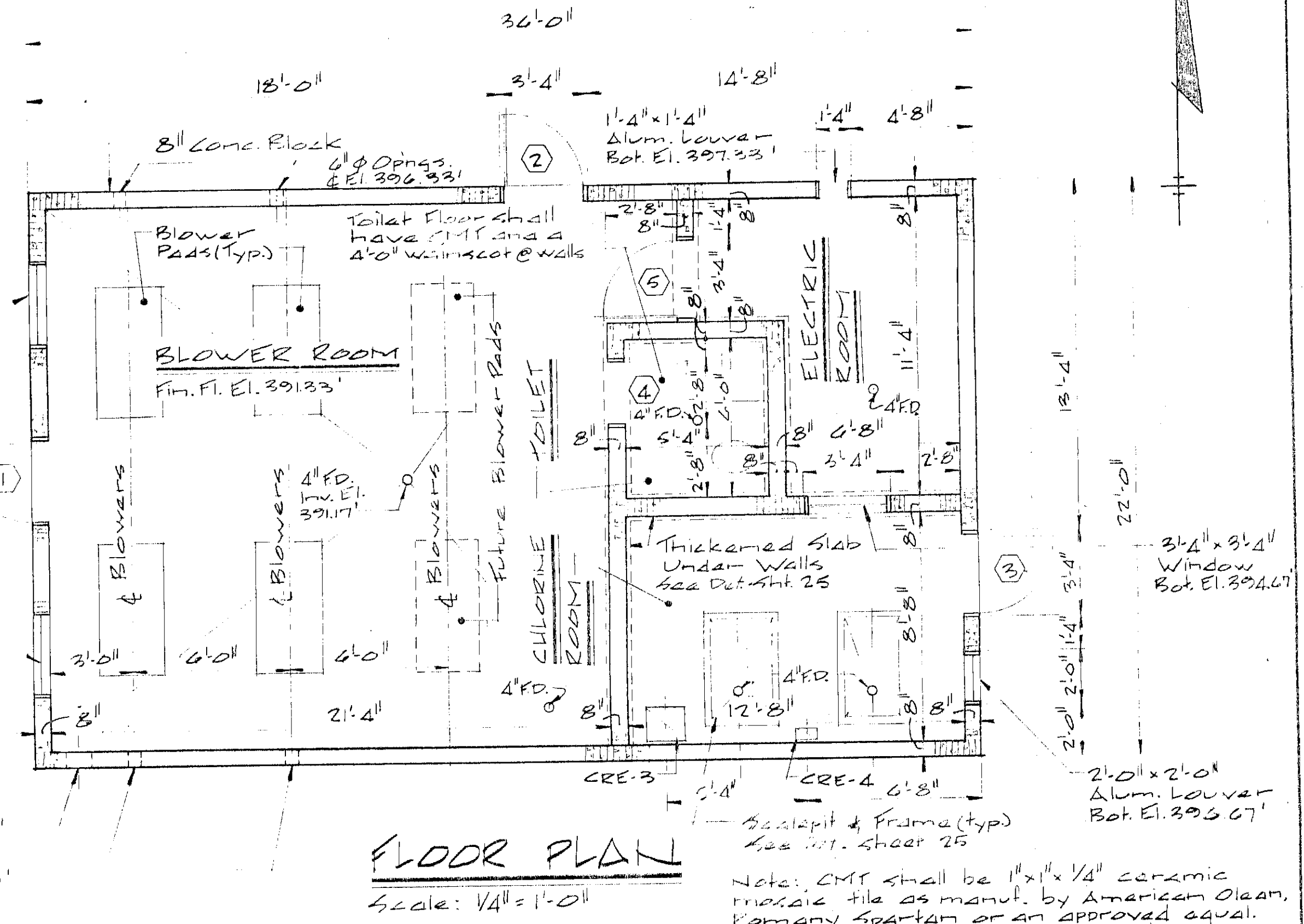
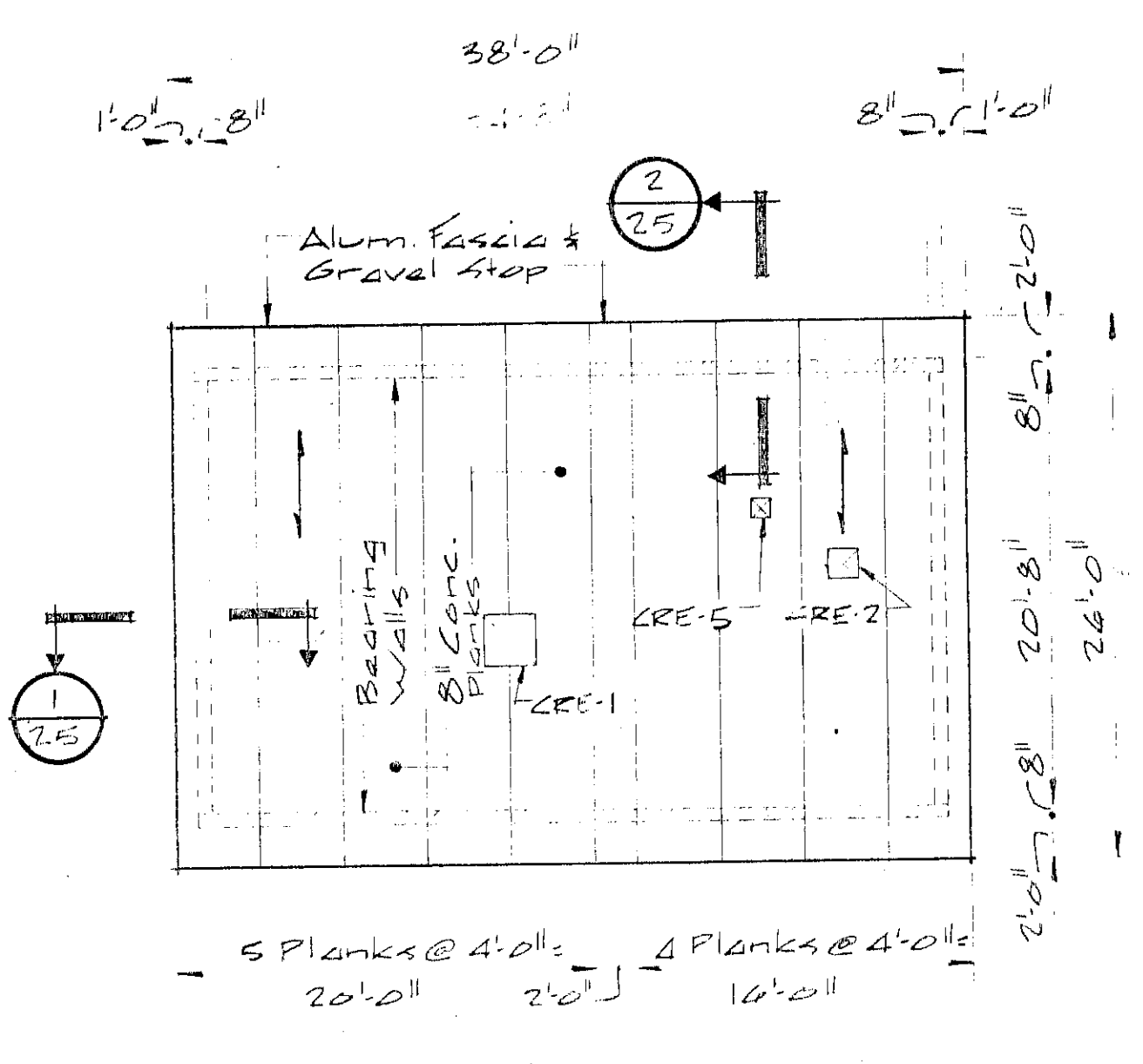
MECHANICAL
 CONTROL BUILDING
 PLAN & SECTIONS

FILE NO.
 115-216-24F
 DATE
 2-22-74
23

GENERAL NOTES AND MATERIAL LISTING

- Concrete:
 - Concrete footing and slab shall be 4,000 psi with 4" slump. Size shall be as shown on the drawings.
 - Reinforcing steel bars shall be ASTM A-615-66 and mesh shall be ASTM A-185-69. Bars shall be continuous and lapped where necessary.
- Masonry:
 - Concrete Blocks - Hollow load bearing units ASTM C-90, Type I, Grade N.
 - Portland Cement - standard brand ASTM C-150, Type I.
 - Hydrated Lime - ASTM C-207, Type S.
 - Joint Reinforcing - Dur-O-Wal Extra Heavy Truss Design, galvanized, every other course - all walls.
 - All joints in Chlorine Room walls and between the walls and the roof plank shall be caulked with silicone sealant as made by General Electric or Dow Corning. Use sponge rubber joint filler as required at roof plank.
 - All joints between masonry walls and roof plank, or masonry walls and door, window or louver frames shall be caulked both inside and outside.
- Roof Plank:
 - 8" pre-cast hollow core units, live load = 50 psf plus piping loads as shown on the drawings. Hangers, as required, shall be provided for support at roof opening by pre-cast manufacturer.
 - Pre-cast units shall be as manufactured by Hinkrete Precast Corp. in accordance with ACI-711.
- Insulation:
 - Rigid Structural Fibrous Insulation in accordance with ASTM C-208. Required "R" for roof construction = 0.22.
- Roofing:
 - 3-ply, built-up, asphalt-asbestos felt, Barrett Roof Spec. No. 420-C or equal.
 - Asphalt-ASTM D-312 as required by roofing manufacturer.
 - Felts-Asphalt saturated asbestos-felt-ASTM D-250, 15# type.
 - Vapor barrier under insulation - Barrett BS-10C.
- Doors and Frames:
 - Doors and frames shall be standard units as manufactured by Ceco or Steelcraft of the design shown on the drawings. Exterior doors and frames shall be constructed of galvanized steel. All doors and frames shall be bonderized and prime painted. Doors and frames shall be reinforced for door closers and/or holders to be applied in the future.
 - Door Frames - 8-3/4" deep, 16 gauge steel with corners mitered and all joints welded and ground smooth.
 - Doors shall be 1-3/4" thick full flush seamless design, fabricated with 18 gauge steel face sheets securely bonded to a kraft honeycomb core. All edge joints shall be continuously welded and ground smooth. Top and bottom channels shall be 16 gauge steel, hinge reinforcement shall be 7 gauge steel drilled and tapped at the factory.
- Hardware:
 - Hinges - 1-1/2" ball bearing - Stanley FBBI99STSD stainless steel - 4-1/2" x 4-1/2" NRP.
 - Lockset - Exterior doors - Falcon X501DL x AS x US 320 x stainless steel mechanism - masterkey to Metro Plant. Interior door - Falcon X101 x AS x US 260. Toilet Room - Falcon X301 x AS x US260.
 - Kickplates - 16" x DW less 2" x B3E x 16 gauge stainless steel.
 - Thresholds - Exterior doors - Wooster 1155 x Alumogrit - set in bed of sealant. Interior Door - Wooster 115 x Alumogrit.
 - Wall Bumper - Interior doors - 402-1/2 x US260 - H.B. Ives.
 - Weatherstripping - Exterior doors - Head and jamb, Zero #50A x Anodized Alum. with 5/8 screws; - Sill strip, Zero #39A x anodized alum. with 5/8 screws.
 - Panic Hardware - Von Duprin 66 Series stainless steel with stainless steel mechanism and Falcon Rim Cylinder Lock.
- Wood:
 - Wood blocking lumber shall be 2x material as shown on the drawings.
 - Wood blocking lumber shall be treated with a Pentachlorophenyl base type wood preservative such as "Cuprinol".
 - Wood trim shall be provided at wall openings for exhaust fans and shall be 1x material with surface suitable for painting.
- Lintels: All doors, windows and louvers shall have two 5" x 3-1/2" x 5/16" angles LLV x 1'-4" longer than the masonry openings. Lintels shall be set in the block course joint above the opening.
- Window: The window between the Chlorine Room and the Electric Room shall be a 15 gauge steel frame section with applied stops equal to the door frames specified above. Window shall be 3'-4" x 3'-4" and shall be glazed with 1/4" tempered plate glass set in silicone sealant.
- Painting:
 - Door frames and misc. ferrous metal - Mobil M&F Enamel (20 coats) - 2 coats.
 - Exterior Masonry Paint - Mobil M&F Enamel (20 coats) - over 1 coat Mobil M&F Enamel Primer.
 - All others shall be as selected by the Engineer.
- Louvers:
 - Fixed and Motor operated aluminum louvers shall be as manufactured by Construction Specialties, Inc. and shall have a caustic etch and one hour anodized finish equal to AA-C22-A41.
 - Fixed louvers shall be Model No. 4150.
 - Motor operated louvers shall be Model No. 4830E.
 - Insect screen shall be 18 x 14 aluminum mesh.
- Provide deepened floor section at Chlorine Scale Pits, floor drains and under interior walls.

Notes: 1. Sonneborn's "Lapidolith" surface hardener or approved equal shall be applied to the surface of all exposed concrete finish floors.
2. All equipment pads and supports shall be reinforced with #4@12 EW, lapped with matching dowels anchored to the slab.



DOOR SCHEDULE

NO.	LOCATION		DOOR					FRAME		HARDWARE	REMARKS	NO.			
	FROM	TO	Quant	Material	Width	Height	Thick.	Finish	Color				Material	Finish	Color
1	Exterior	Blower Room	1	H.M.	3'-0"	7'-2"	1 3/4"	Paint	•	H.M.	Paint	•	a, b, c, d, f	10" x 10" x 1/2" Wire Glass	1
2	Exterior	Blower Room	1	H.M.	3'-0"	7'-2"	1 3/4"	Paint	•	H.M.	Paint	•	a, b, c, d, f	10" x 10" x 1/2" Wire Glass	2
3	Exterior	Chlorine Room	1	H.M.	3'-0"	7'-2"	1 3/4"	Paint	•	H.M.	Paint	•	a, c, d, f, g	10" x 10" x 1/2" Wire Glass	3
4	Blower Room	Toilet	1	H.M.	2'-4"	7'-2"	1 3/4"	Paint	•	H.M.	Paint	•	a, b, c, e	16" x 12" Louver	4
5	Blower Room	Electric Room	1	H.M.	3'-0"	7'-2"	1 3/4"	Paint	•	H.M.	Paint	•	a, b, c, d, e		5

In charge of: LEE Designed by: LEE Checked by: MM Made by: LEE

Scale: 1/4" = 1'-0"

NO. DATE REVISION INIT.

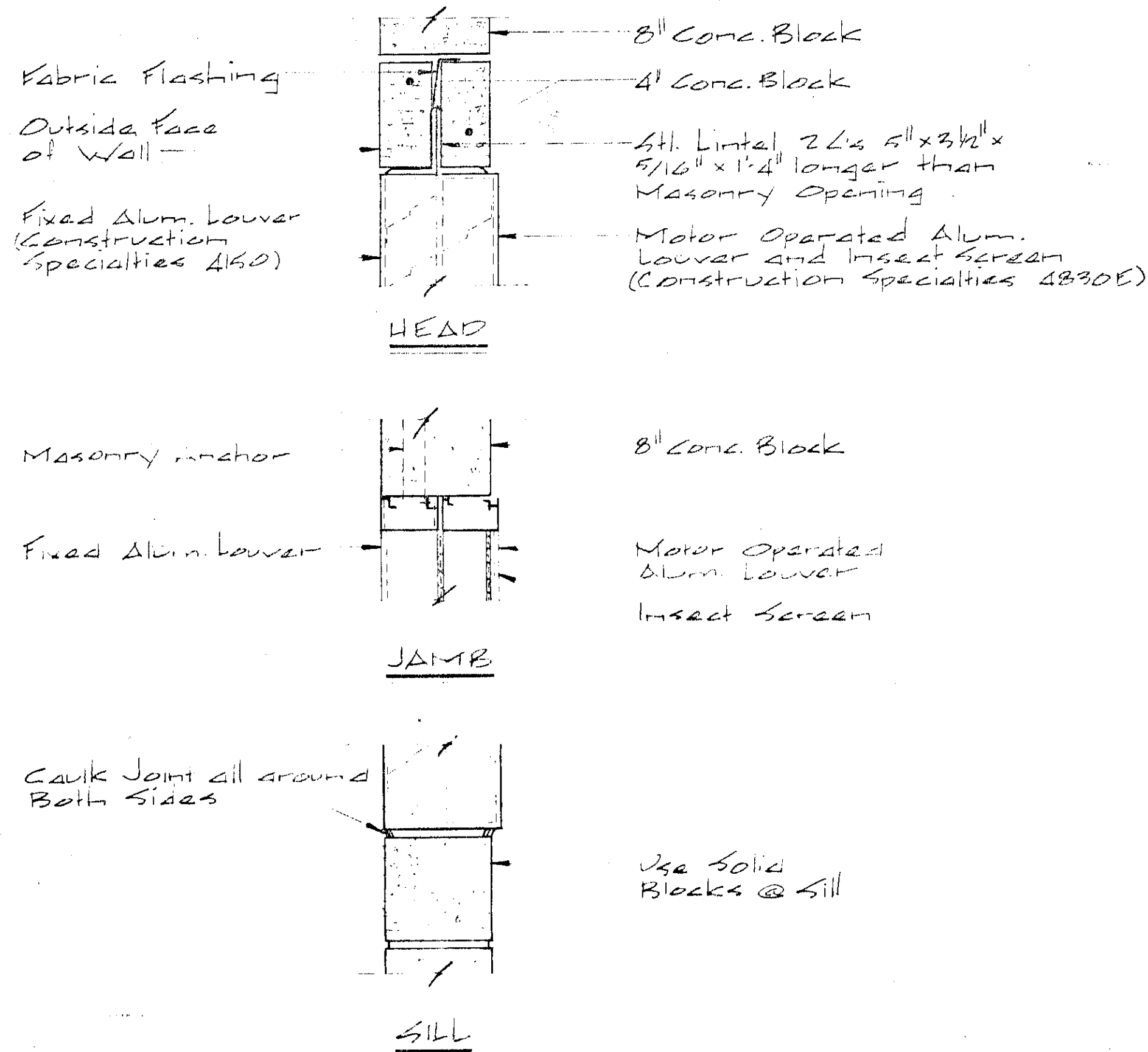
O'BRIEN & GERE ENGINEERS, INC.
Syracuse, New York

CLAY SANITARY DISTRICT
OAK ORCHARD LAGOONS

CONTROL BUILDING
PLANS & ELEVATIONS

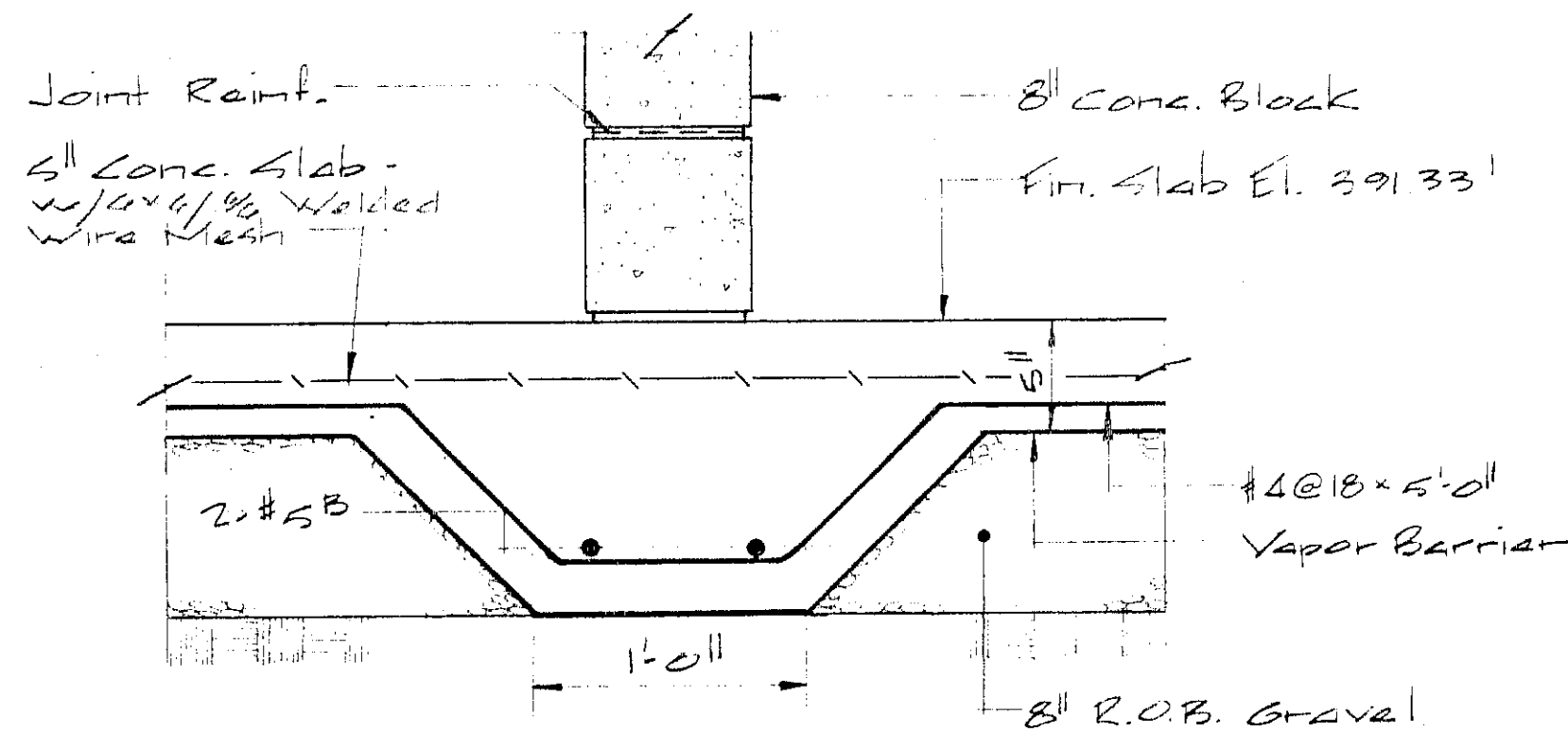
FILE NO. 115-216-25F
DATE 2-20-74

24



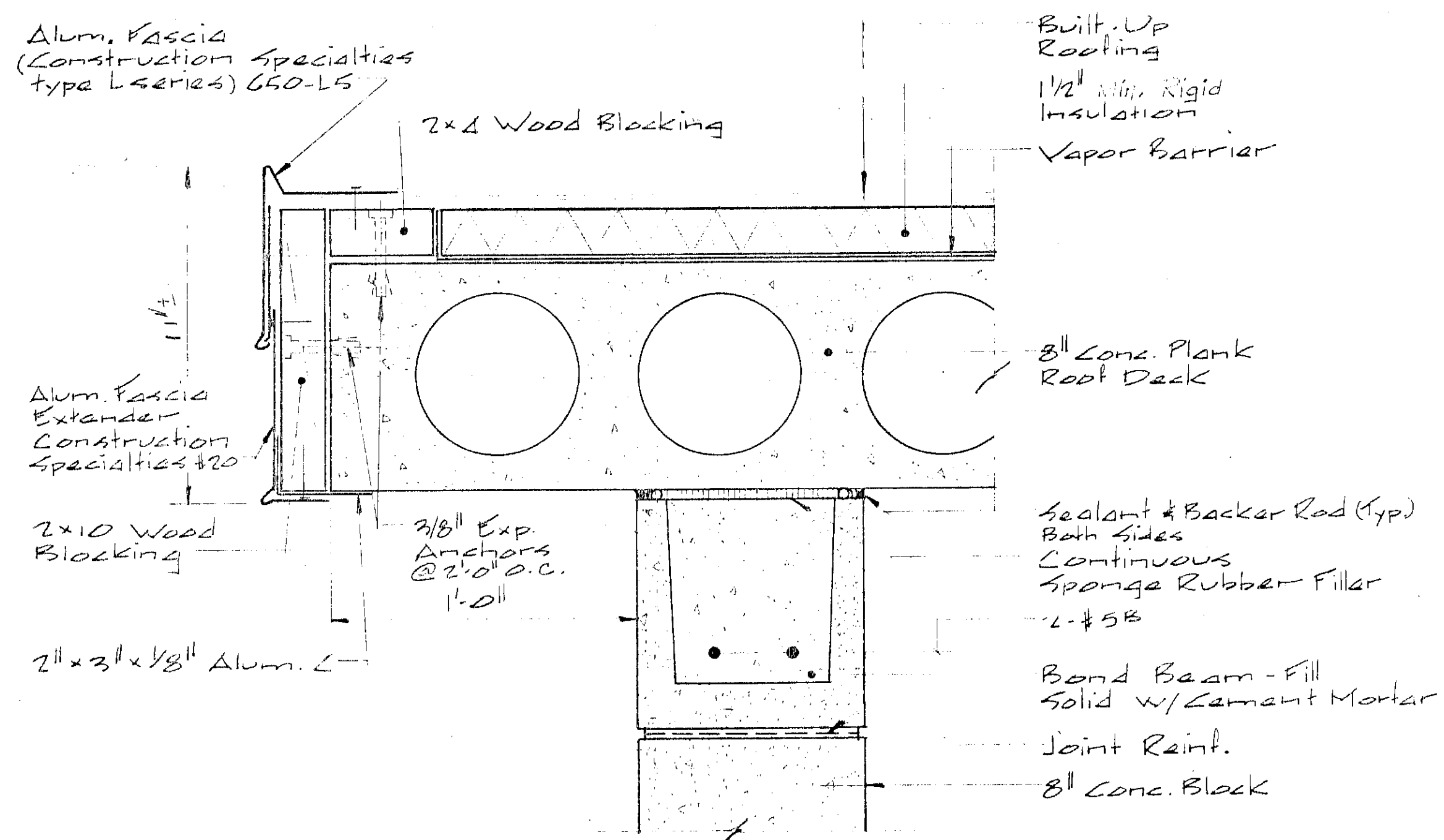
TYPICAL LOUVER DETAILS

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



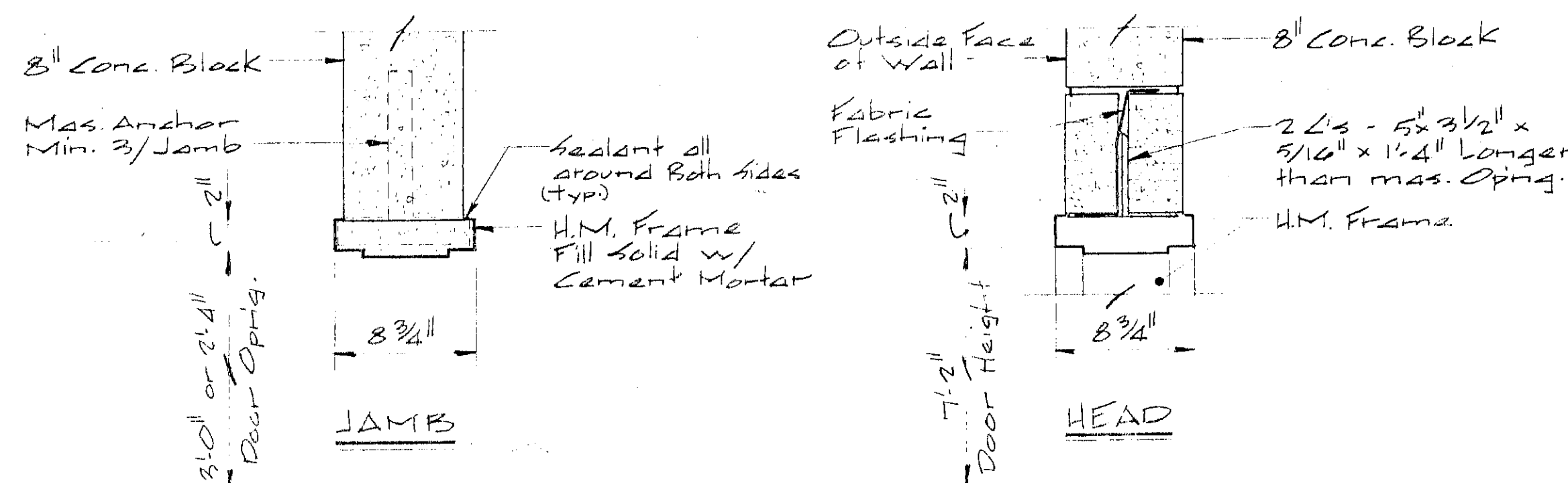
THICKENED SLAB DETAIL

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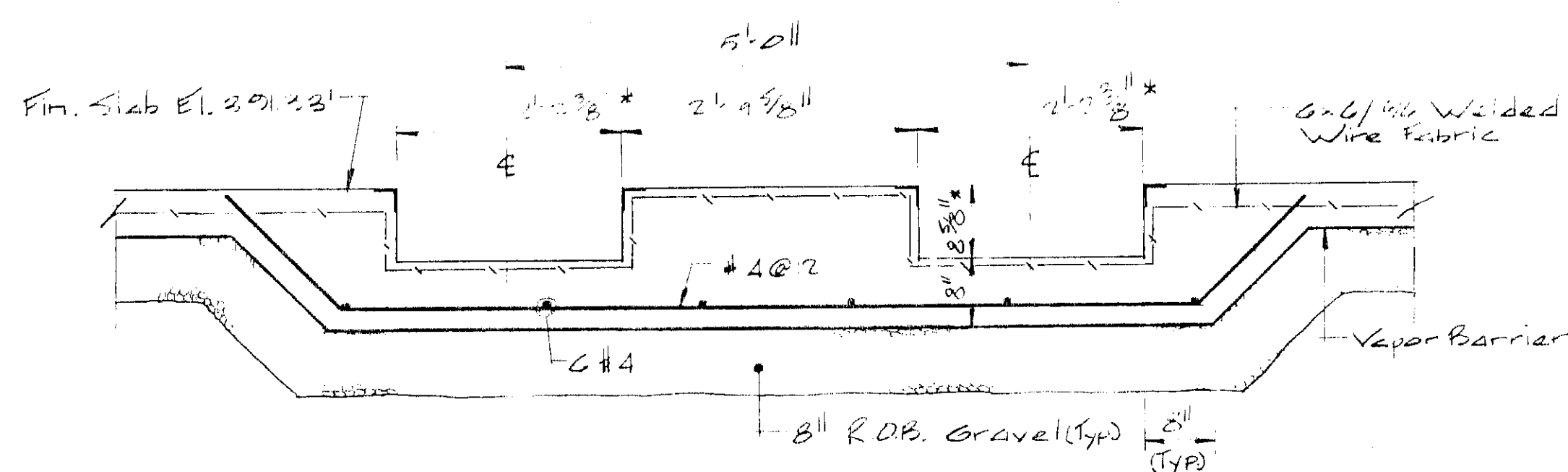
SECTION 24

Scale: 3/4" = 1'-0"



DOOR HEAD & JAMB DETAILS

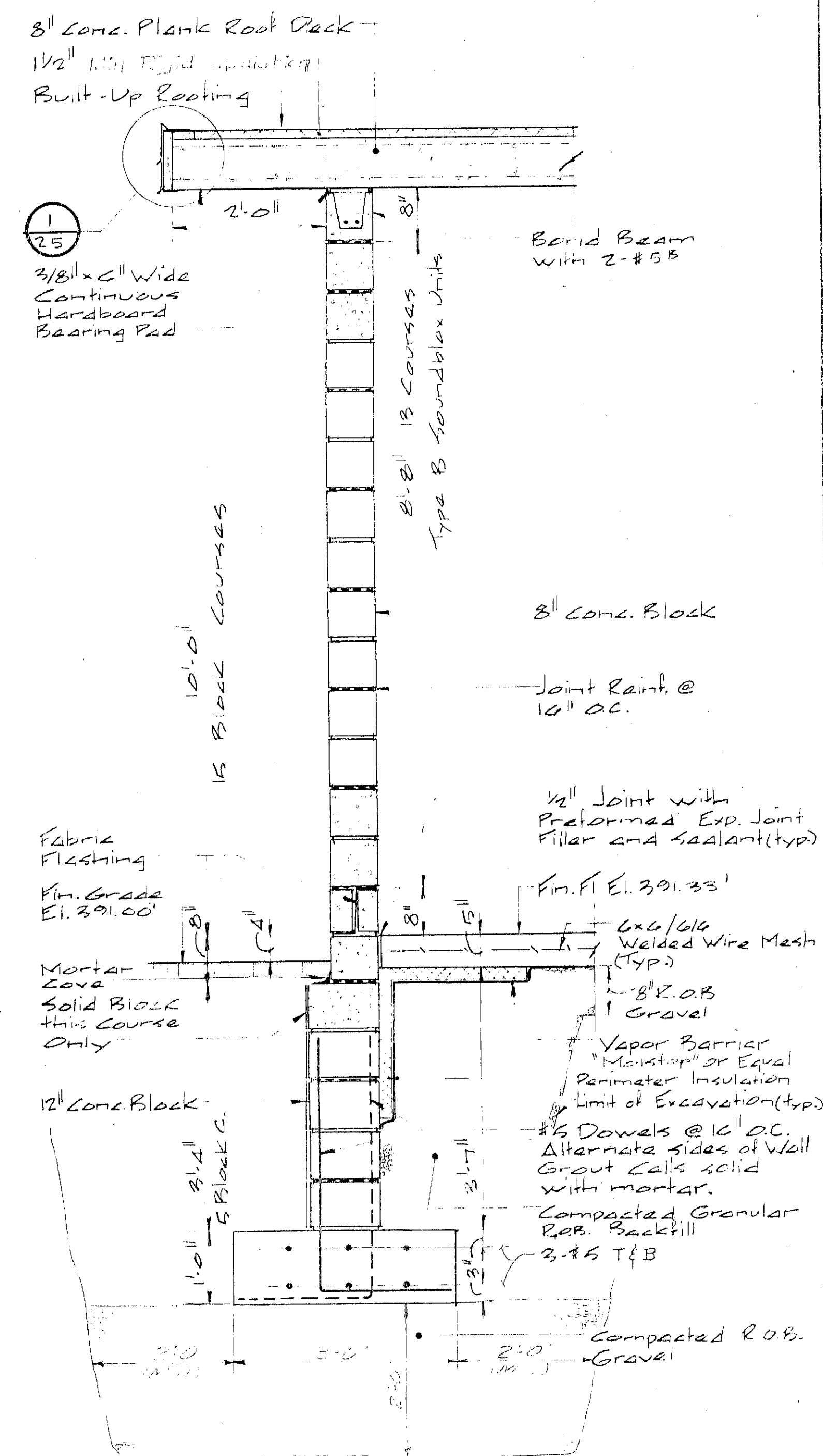
Scale: 1/2" = 1'-0"



SCALE PIT DETAIL

Scale: 3/4" = 1'-0"

* Scale Pit dimensions shall be verified with equipment manufacturer.



SECTION 25

Scale: 3/4" = 1'-0"

Notes:

- Any backfilling due to carrying excavation deeper than required by these drawings shall be made with compacted R.O.B. granular material as directed by the Engineer at the Contractor's expense.
- All backfill shall be compacted to a minimum 90 percent of maximum dry density as determined by the Modified Proctor Moisture Density Test (ASTM D-1557)
- Perimeter Insulation - Styrofoam 5M as manufactured by the Dow Chemical Corp. or an approved equal.

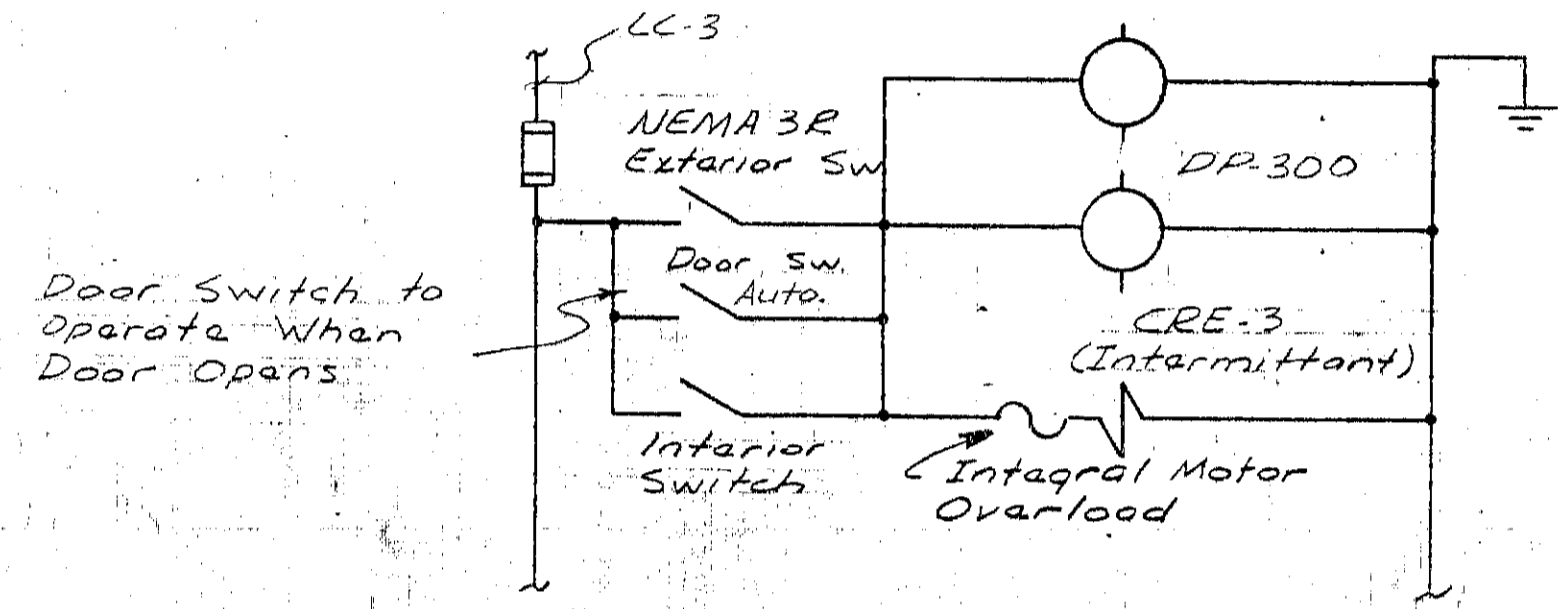
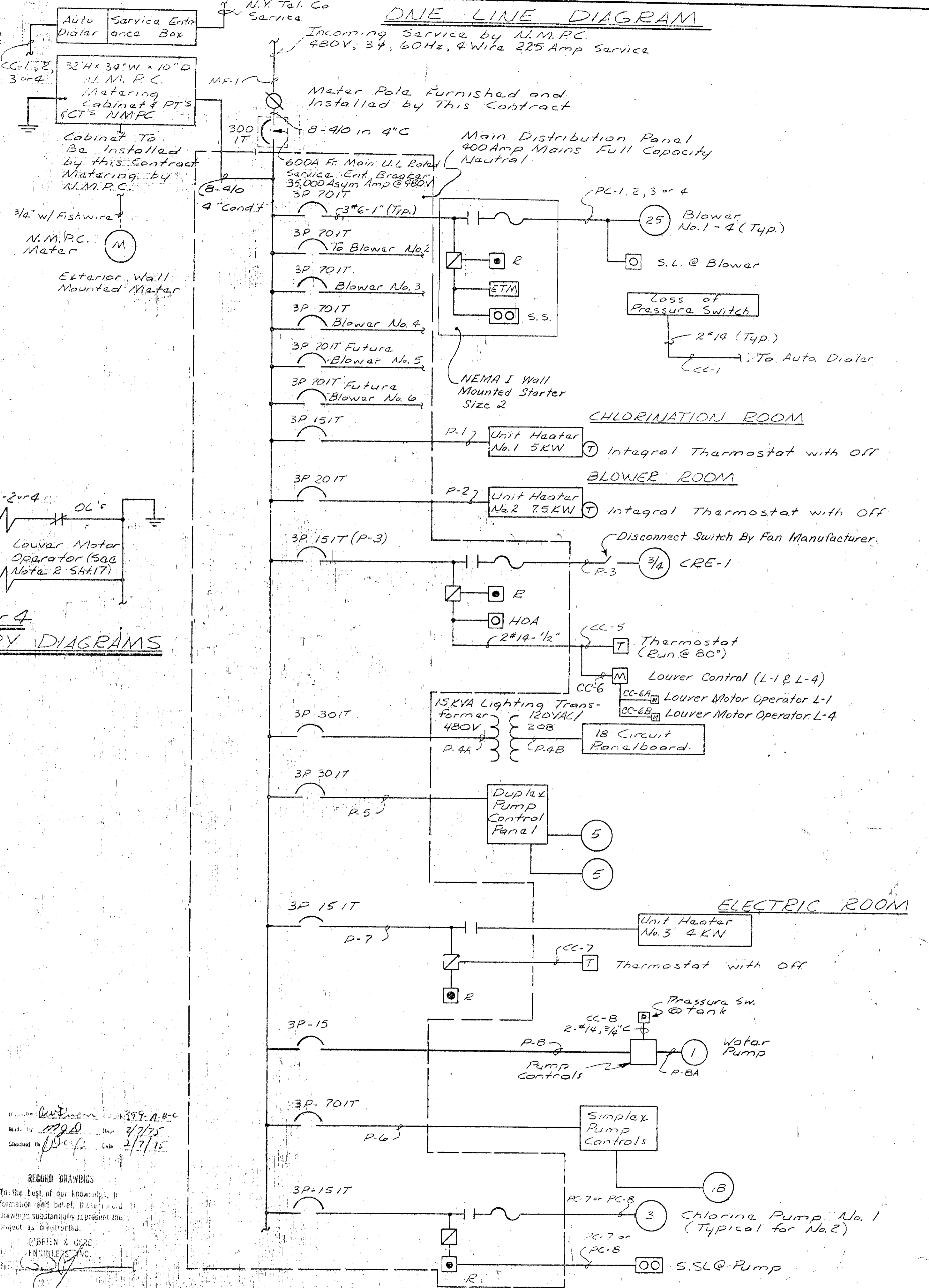
In charge of <u>M. H. H. H. H.</u> Designed by <u>DEF</u> Checked by <u>JMS</u> Made by <u>RRR</u>	3" = 1'-0" 1 2 3 4 5 6 7 8 9 10 11 12	NO. 1 DATE 7/19/74 REVISION 2 4/11/75	O'BRIEN & GERE ENGINEERS, INC. Syracuse, New York	CLAY SANITARY DISTRICT OAK ORCHARD LAGOONS	CONTROL BUILDING SECTIONS & DETAILS	FILE NO. 115-216-26F	25
	1 1/2" = 1'-0" 0 3 6 9 1	NO. 2 DATE 4/11/75 REVISION 1 7/19/74				DATE 2-20-74	
	3" = 1'-0" 0 3 6 9 1	NO. 3 DATE 7/19/74 REVISION 1 7/19/74				DATE 2-20-74	
	3" = 1'-0" 0 3 6 9 1	NO. 4 DATE 7/19/74 REVISION 1 7/19/74				DATE 2-20-74	

LEGEND of EQUIPMENT

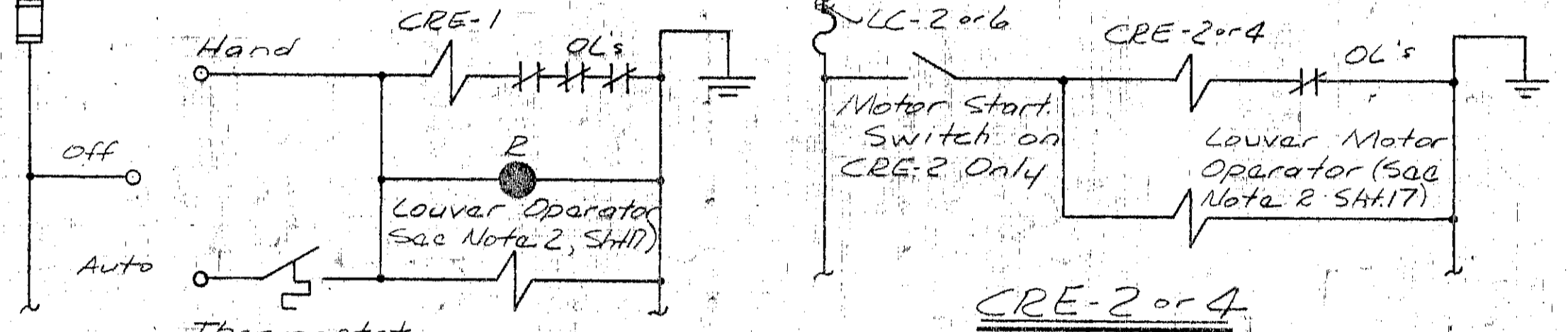
- CRE-1 Lorain Cook Co., Type UCB Model 36UC6B
- CRE-2or5 Lorain Cook Co., Type UCD Model TUC10D
- CRE-3 Lorain Cook Co., Type TW Model 15C02WB
- CRE-4 Lorain Cook Co., Type TW Model 7C10W
- UH-3 Chromalox Electric Unit Heater Model LUH-04-07 with Wall Mounted Thermostat Model MHT-473E-1017
- DC-300 Spara Electric Corp., Cat No D08518 Provide 300 Watt Incandescent Lamps.
- SL-300 Stanco 3 Lamp Cluster Cat. No P8003-L Satin Al. w/ 3-PAR-38-100 Watt Lamps.
- PF-400 General Electric Co., P.400C-C5396013 with RE. Pacap., Auto-Regulated Ballast & 400 Watt Mercury Lamps GE-H400DX33-1 for Flat Roofs.
- WO-100 McPhibben Cat. No. 43-40VT Satin Al with 100 Watt Incandescent Lamp.
- UH-1 Chromalox Electric Unit Heater Model No. LUH-07-09
- UH-2 Chromalox Electric Unit Heater Model No. LUH-05-14
- Auto Dialer-Acro-Larm - Acron Corp. Complete with Coupler and Rechargeable Power Pack

CONDUIT				
Circuit No.	Conduit Size	Conductor Size	No	Remarks
MF-1	4"	4/0	8	
PC-1 to PC-4	1"	8	3	
P-1 & P-2	3/4"	10	3	
CC-1	3/4"	14	2	Loss of Press Sw. to Auto. Tala. Dialer
P-3, P-7	3/4"	12	3	
CC-5, 6, 7	3/4"	14	2	Louvar Operator, of Thermostats
P-4A	3/4"	10	3	
P-4B	1 1/2"	6	4	
P-5	1"	6	3	
P-6	1 1/2"	2	3	
PC-7	1	12	3	
PC-8	1	14	3	
CC-6A & B	3/4"	12	3	
P-8 & BA	3/4"	12	2	

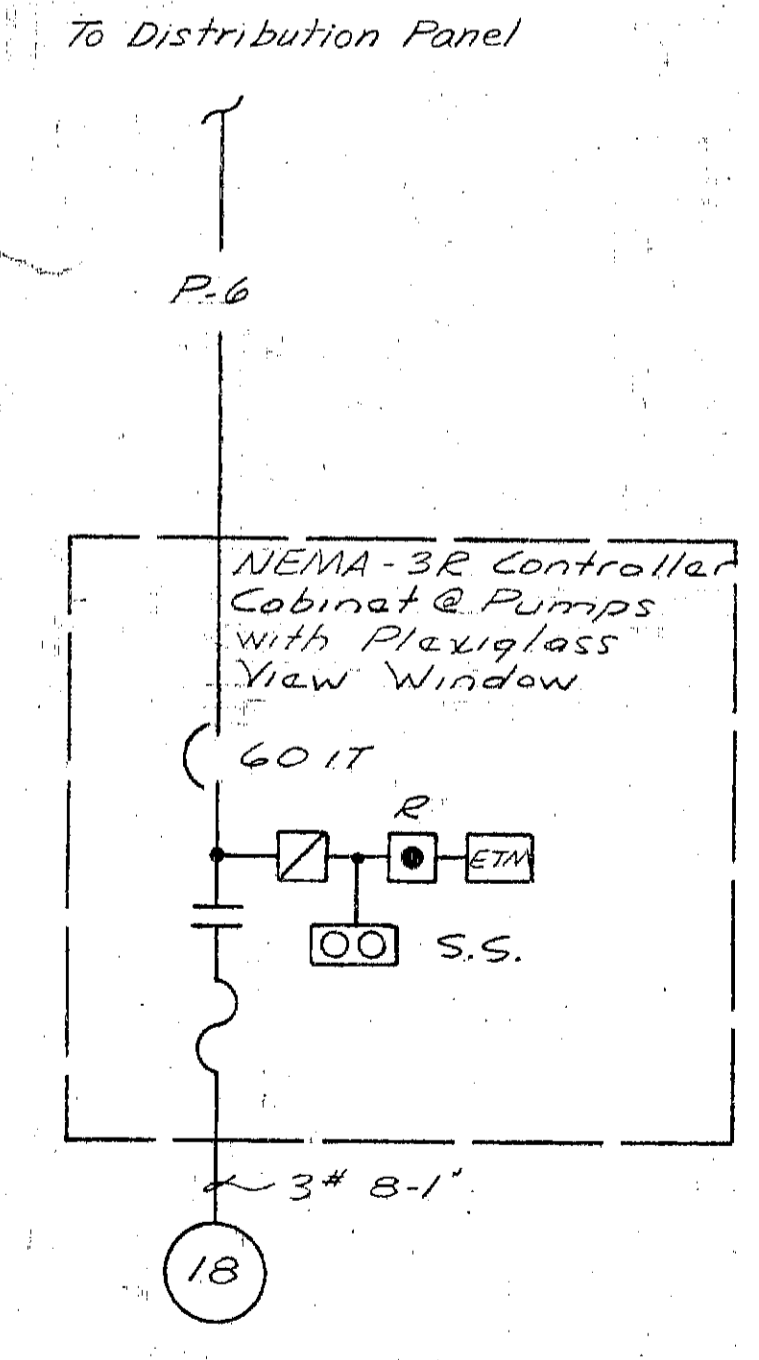
ONE LINE DIAGRAM



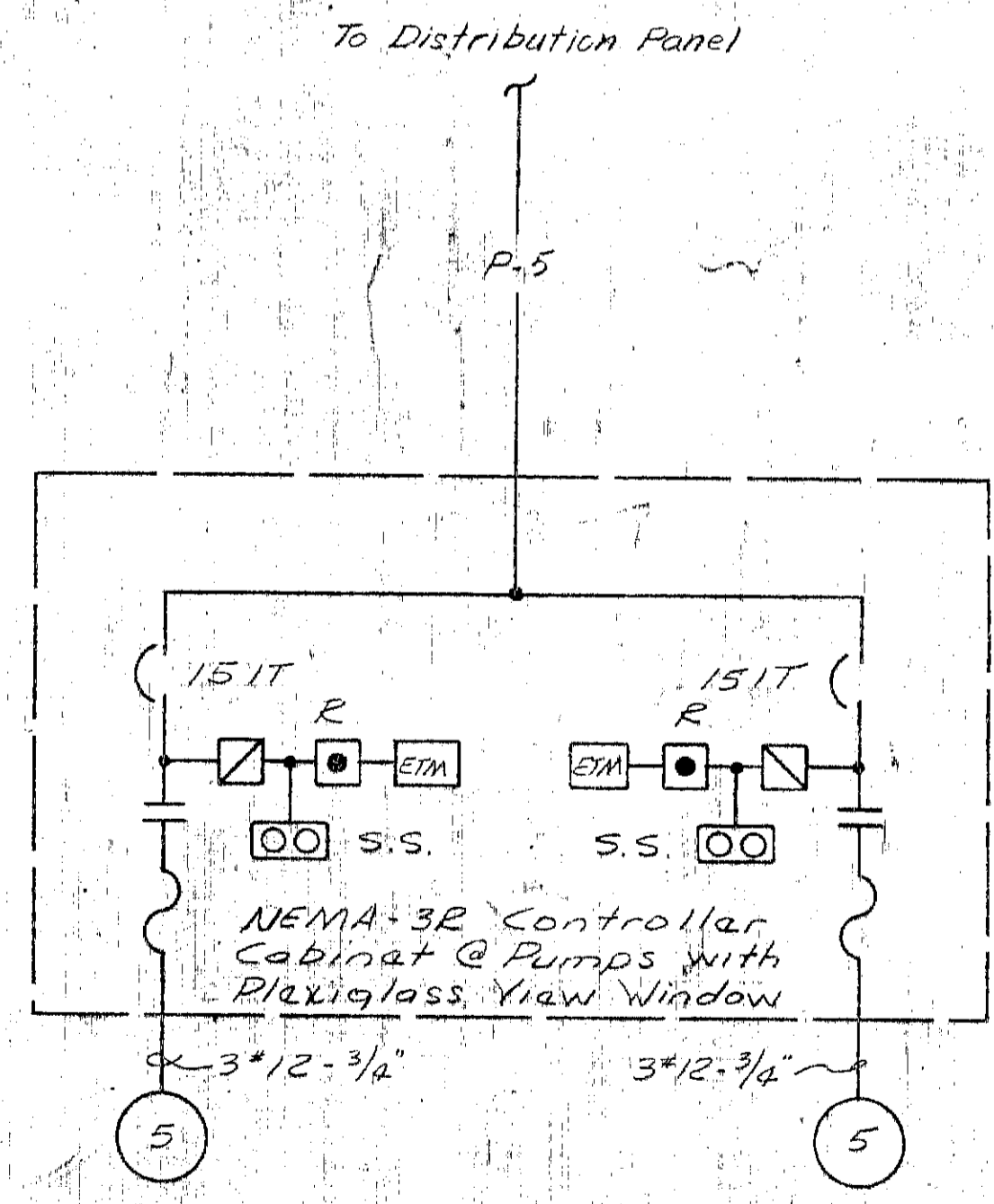
CHLORINE ROOM FAN & LIGHT ELEMENTARY



CRE-2 or 4 ELEMENTARY DIAGRAMS



SIMPLEX PUMP ONE LINE DIAGRAM



DUPLEX PUMP ONE LINE DIAGRAM

399-A-8-c
 Made by [Signature] Date 2/7/75
 Checked by [Signature] Date 2/7/75

RECORD DRAWINGS
 To the best of our knowledge, information and belief, these record drawings substantially represent the project as constructed.
 O'BRIEN & GERE ENGINEERS, INC.
 By [Signature]

In charge of William A. Foster
 Designed by [Signature] Checked by [Signature]
 Made by [Signature]

NO.	DATE	REVISION	INIT.

O'BRIEN & GERE ENGINEERS, INC.
 Syracuse, New York

CLAY SANITARY DISTRICT
 OAK ORCHARD LAGOONS

CONTROL BUILDING
 SCHEDULES &
 ONE LINE DIAGRAMS

FILE NO. 115-216-28F
 DATE 10-18-73
 27