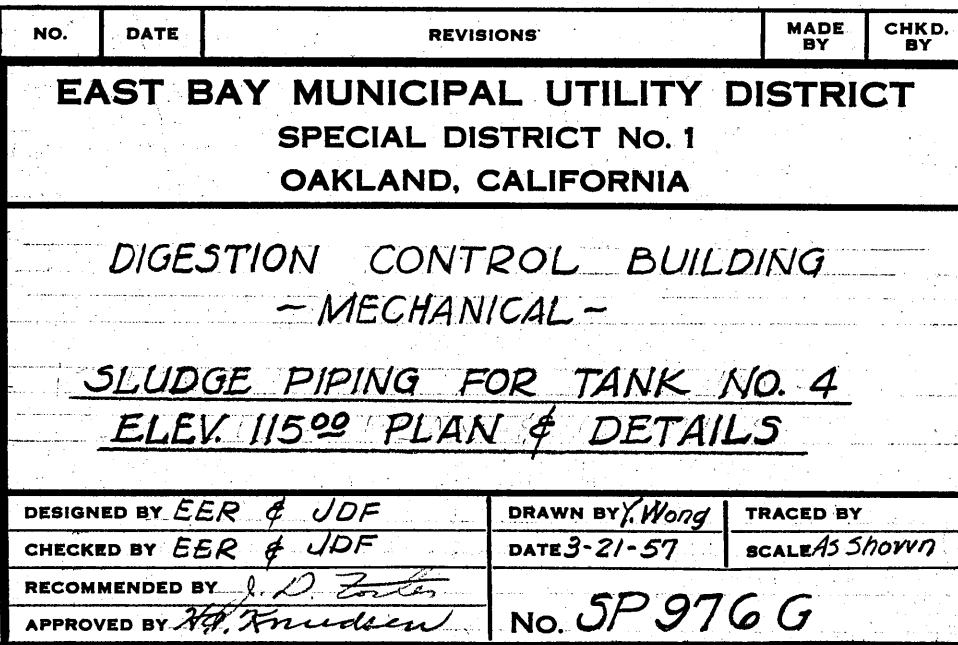
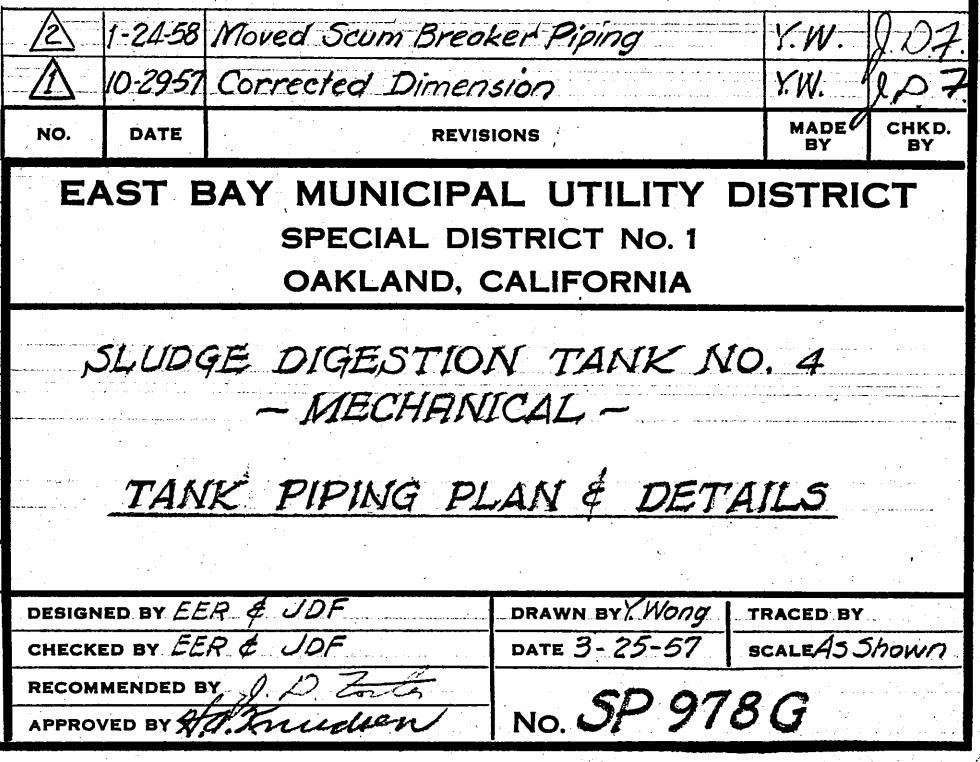
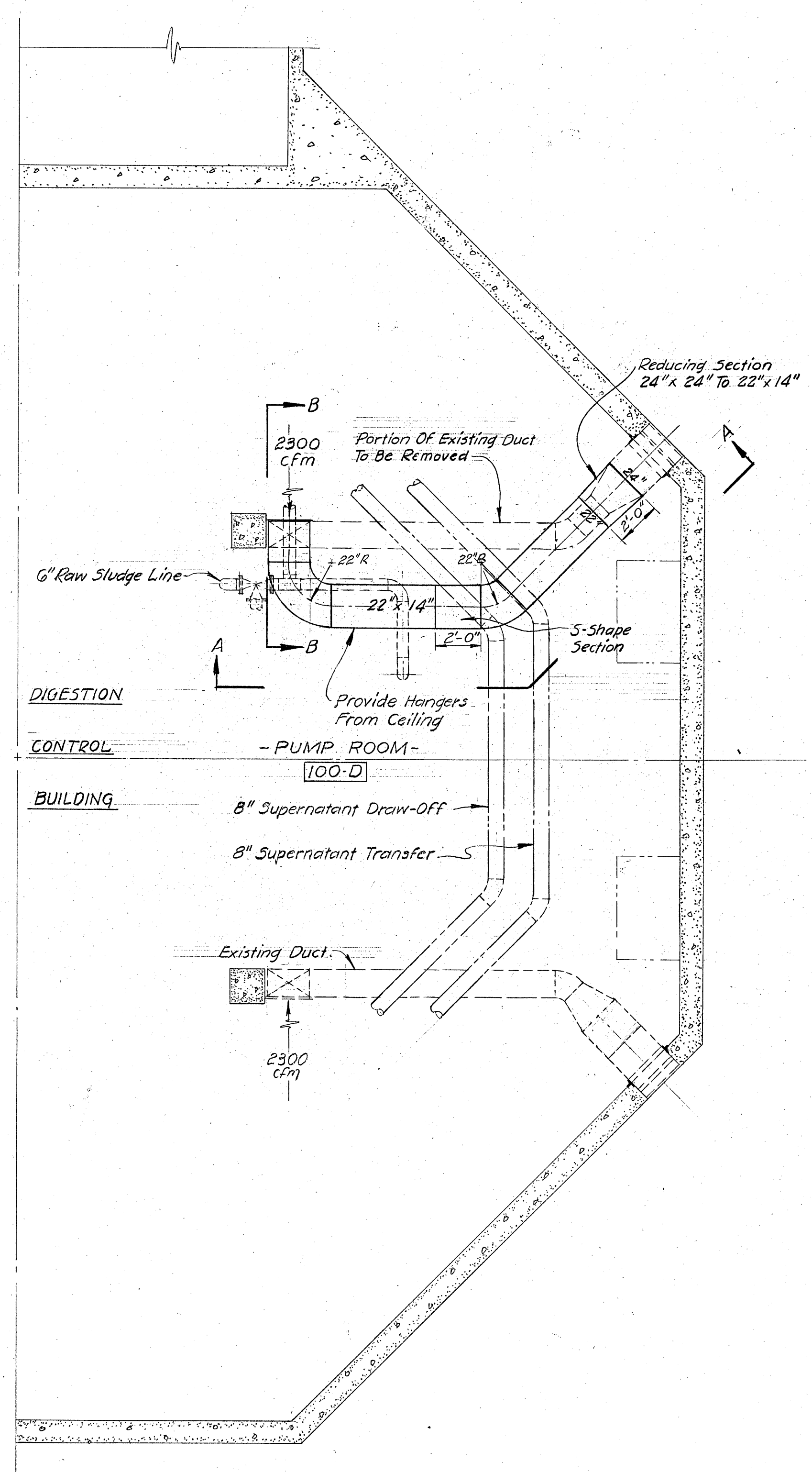
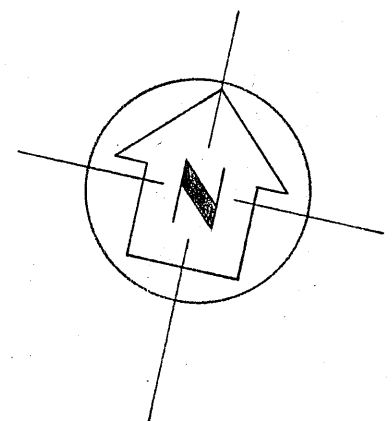
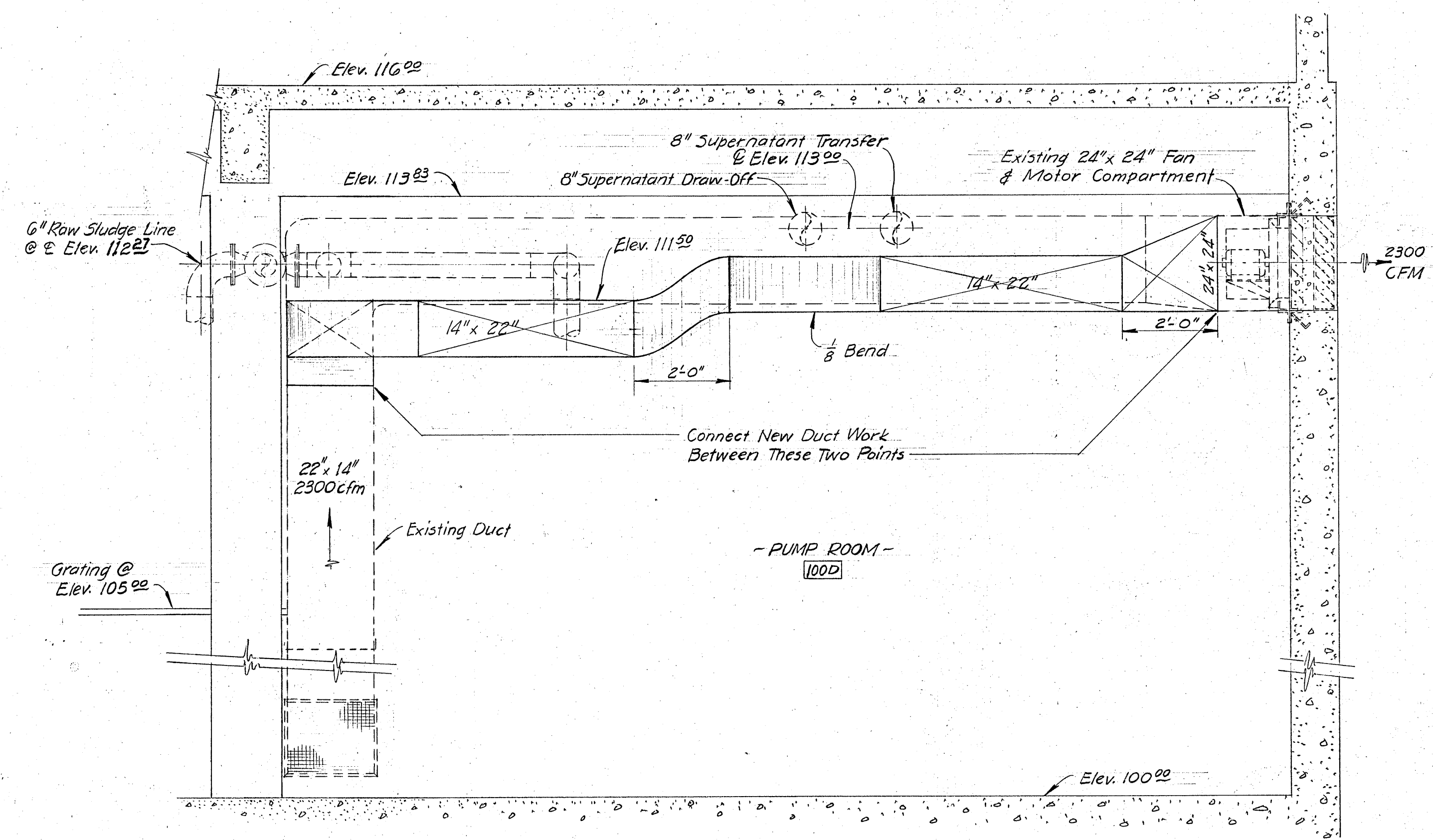




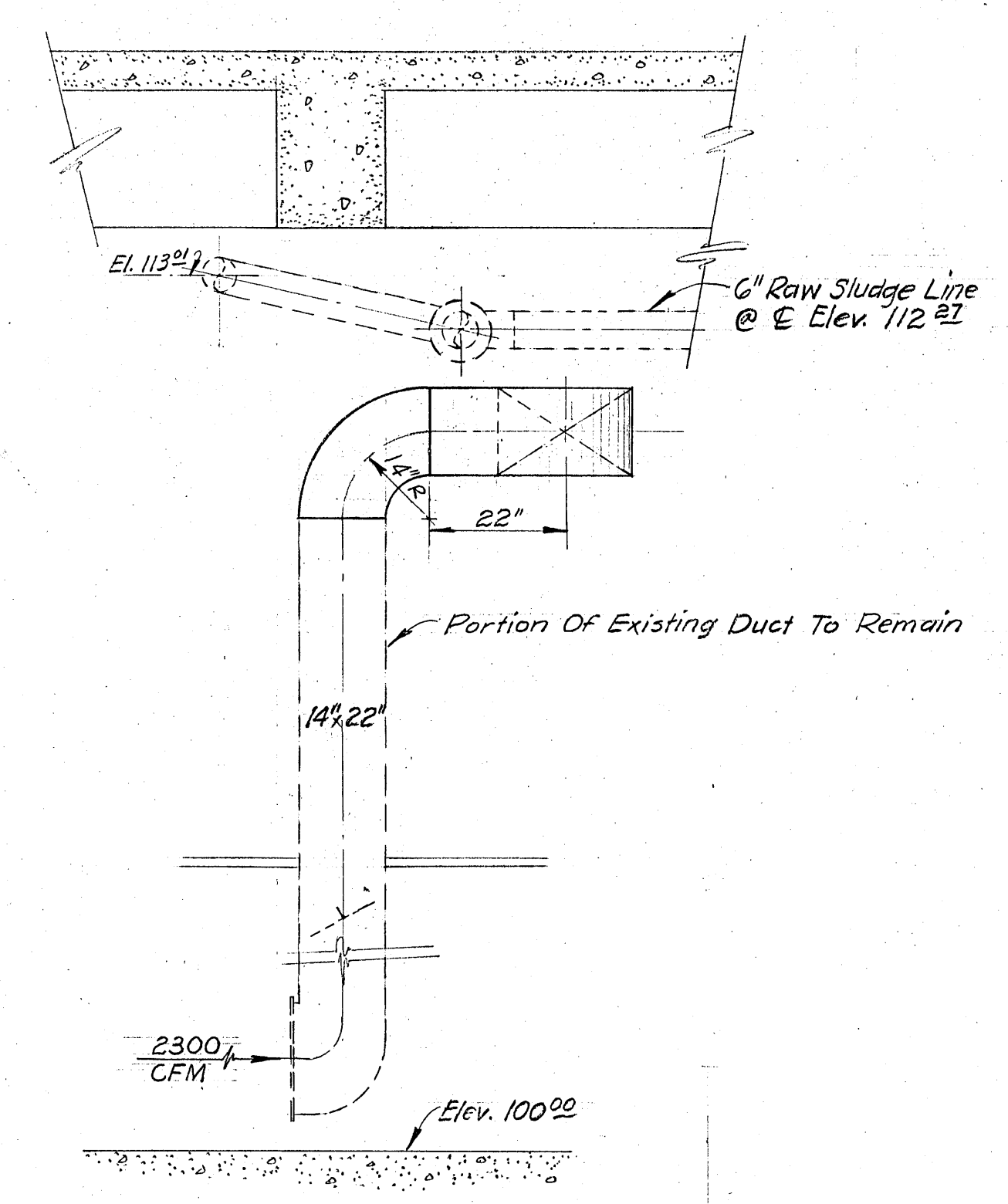




PLAN AT ELEV. 113.50
Scale In Feet

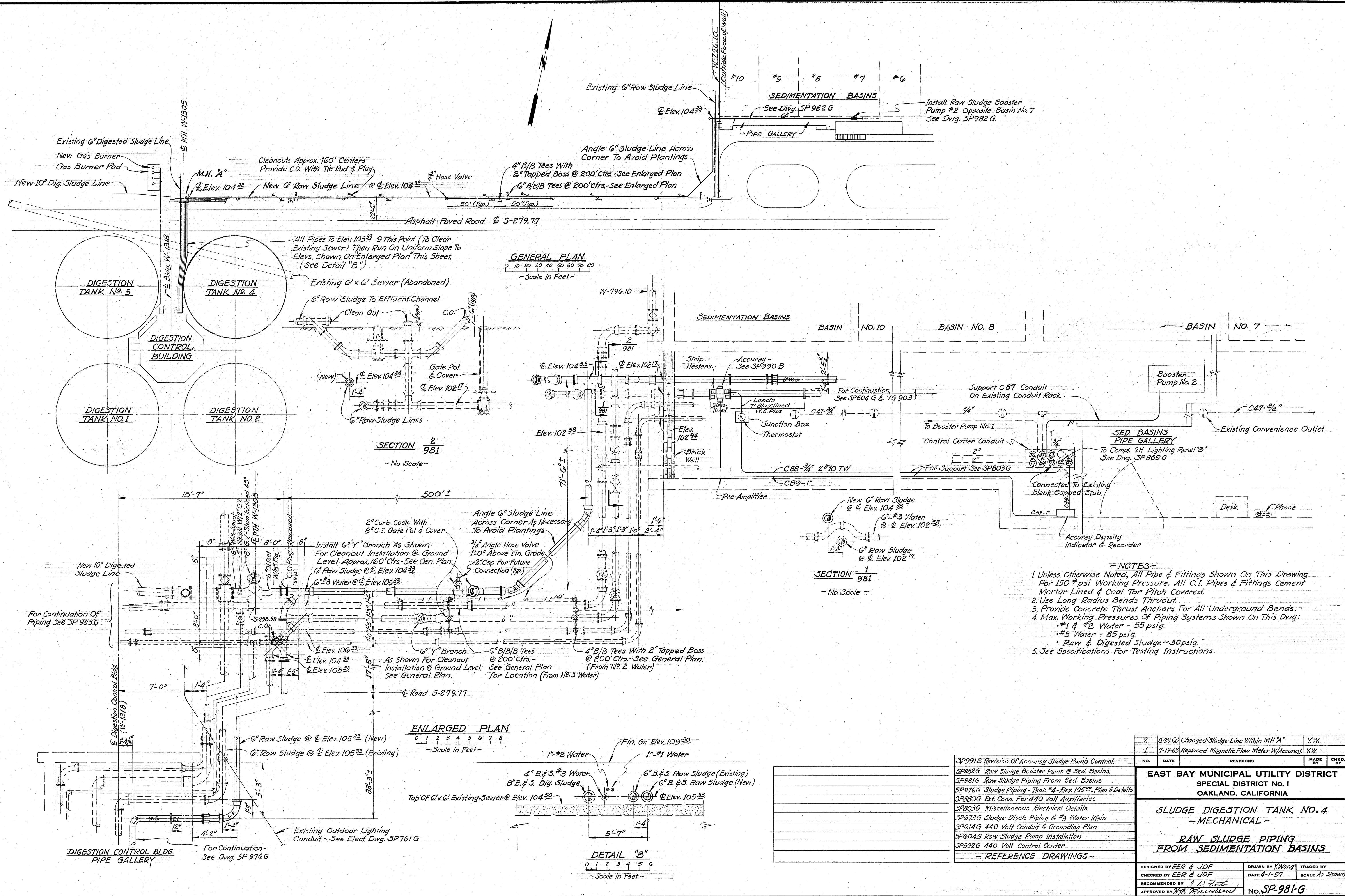


SECTION A-A
Scale In Feet

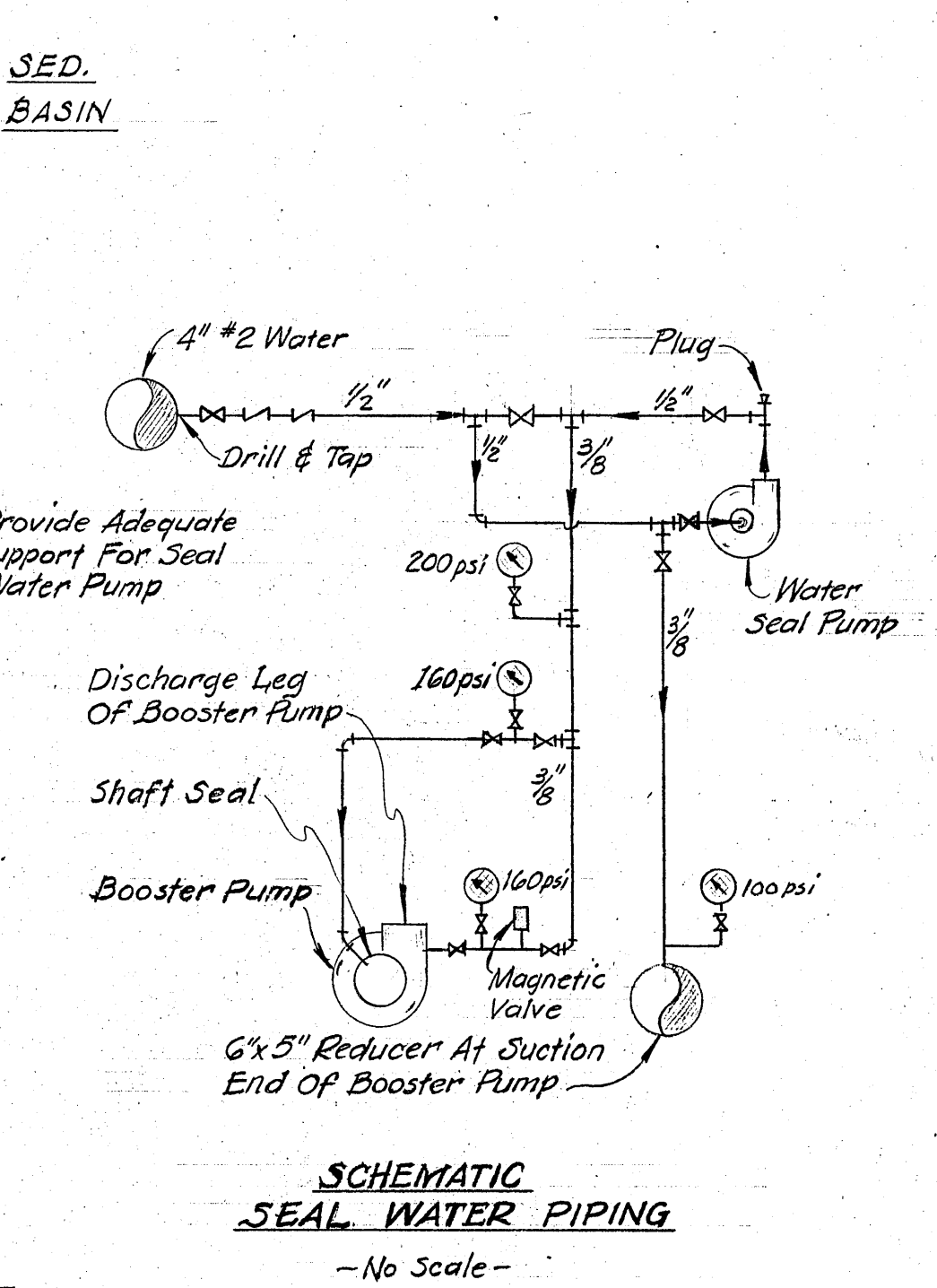
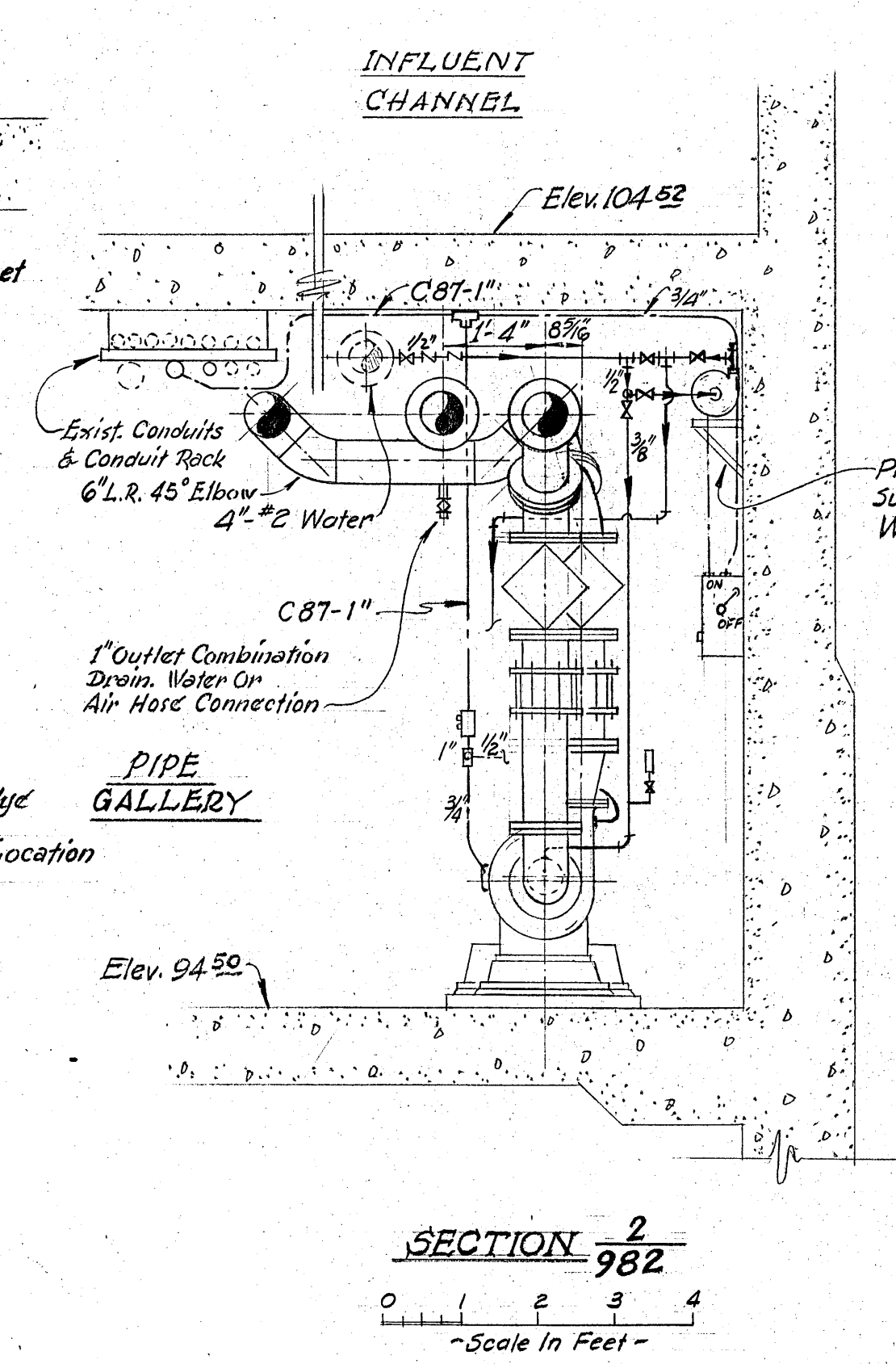
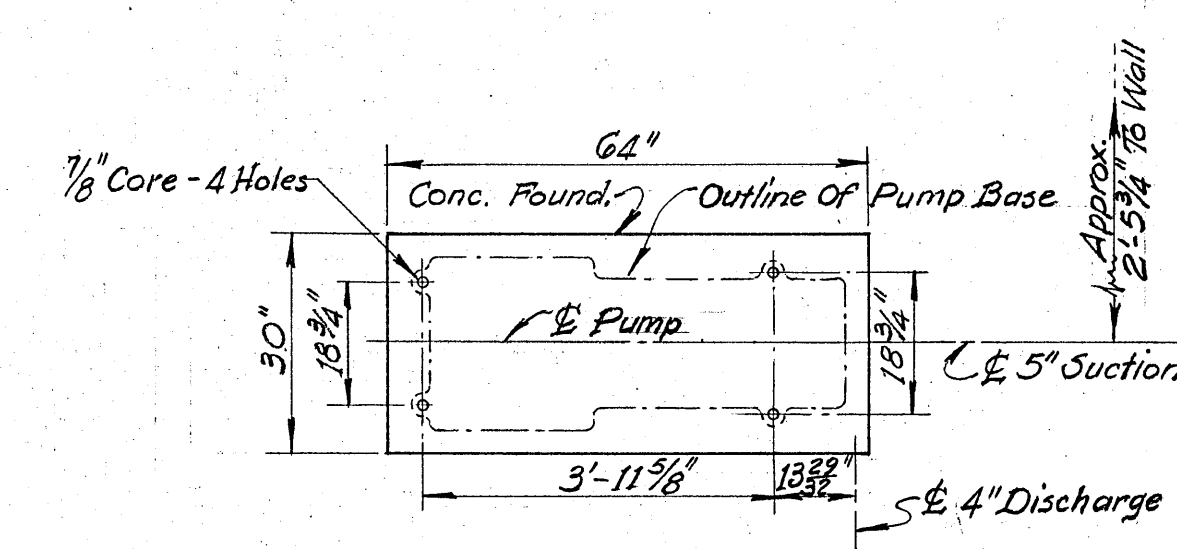
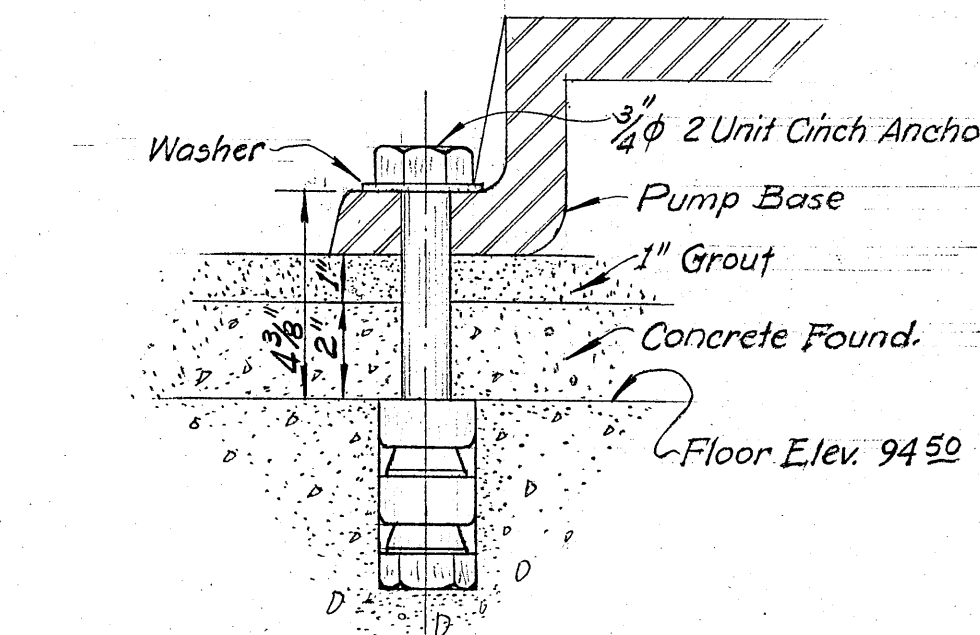
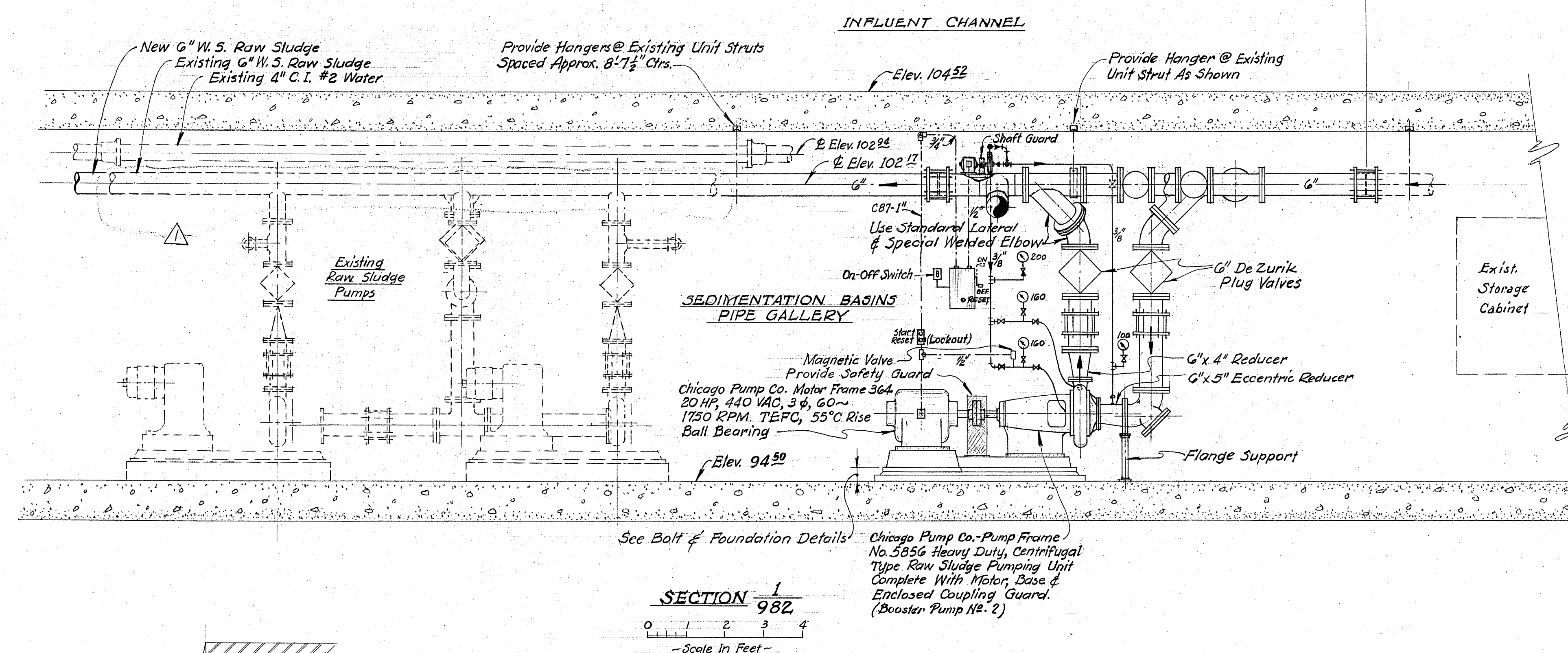
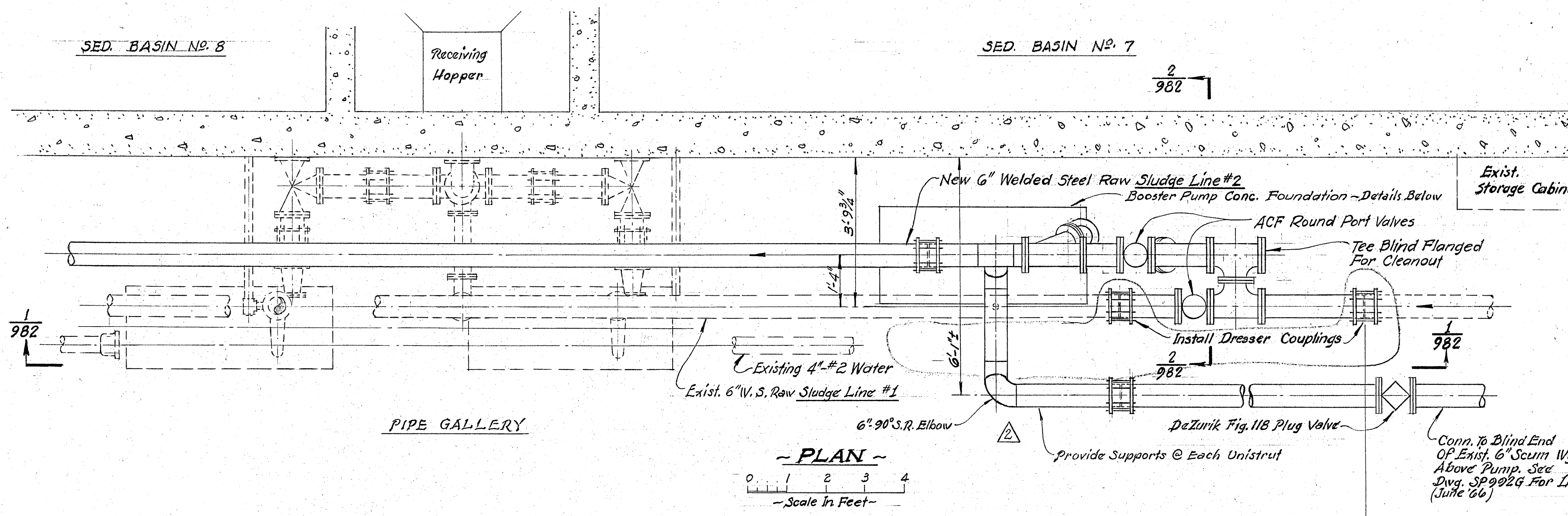


SECTION B-B
Scale In Feet

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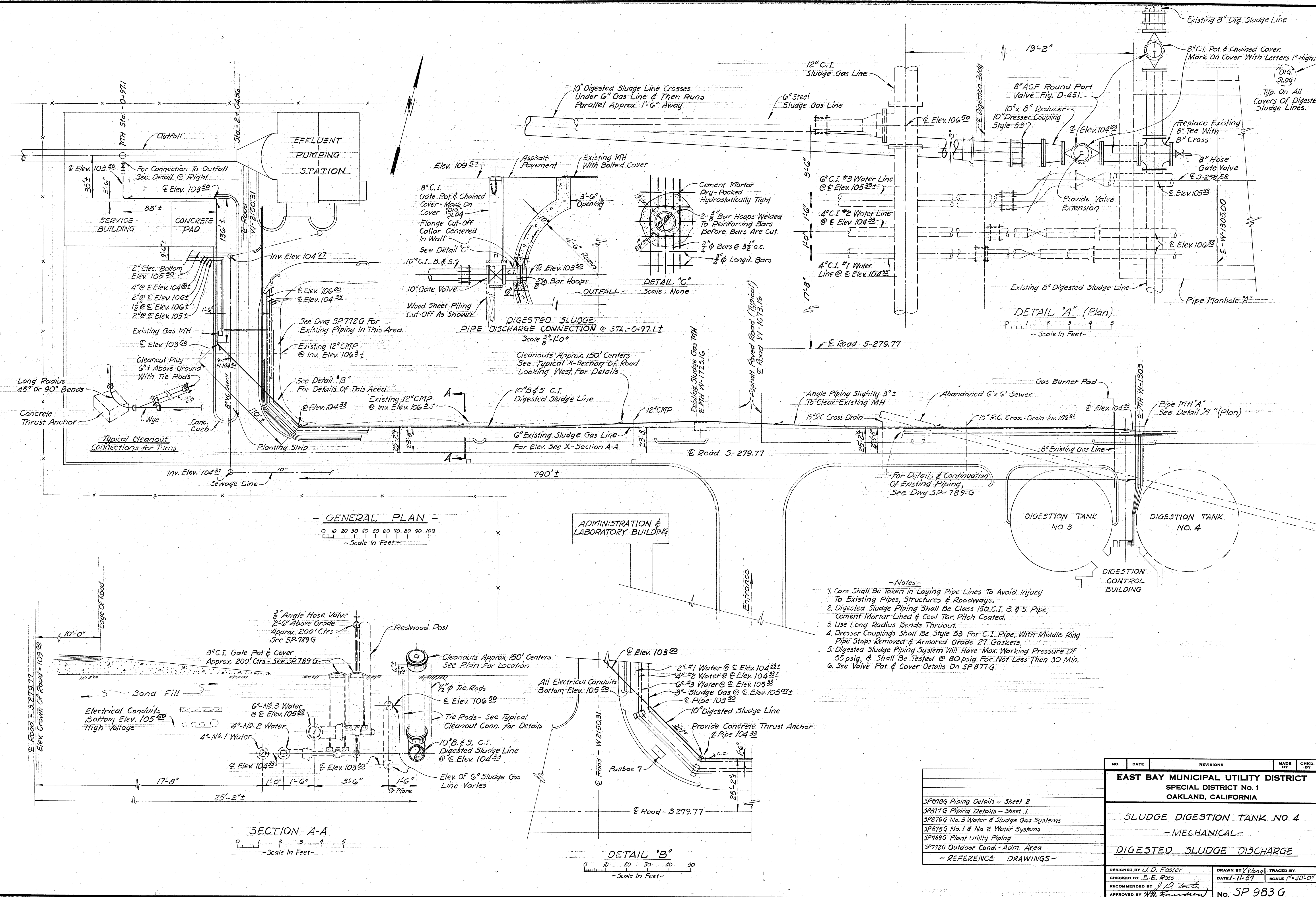
2	8-29-63	Changed Sludge Line Within MH "A"	Y.W.	
1	7-19-63	Replaced Magnetic Flow Meter W/Accuracy	Y.W.	
NO.	DATE	REVISIONS	MADE BY	CHKD. BY
EAST BAY MUNICIPAL UTILITY DISTRICT				
SPECIAL DISTRICT No. 1				
OAKLAND, CALIFORNIA				
SLUDGE DIGESTION TANK NO. 4				
- MECHANICAL -				
<u>RAW SLUDGE PIPING</u>				
<u>FROM SEDIMENTATION BASINS</u>				
DESIGNED BY EER & JDF		DRAWN BY Y. Wong	TRACED BY	
CHECKED BY EER & JDF		DATE 4-1-67	SCALE As Shown	
RECOMMENDED BY J. P. Smith				
APPROVED BY H. A. Knudsen		No. SP-981-G		



LEGEND
 --- Water Piping
 --- Electrical Conduit

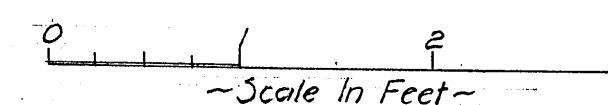
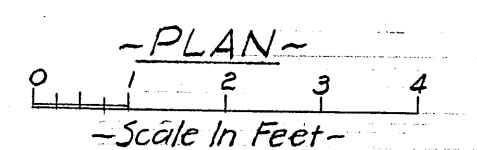
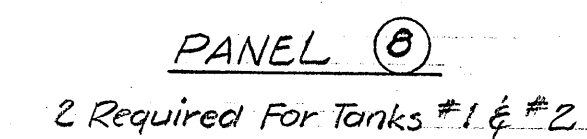
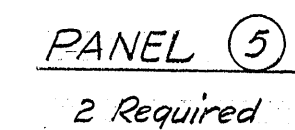
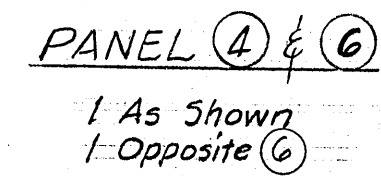
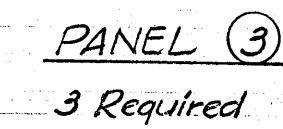
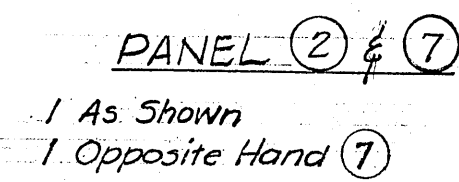
- REFERENCE DRAWINGS**
- SP210G 440 V. Single Line Diagram
 - SP592G 440 V. Control Center
 - SP614G 440 V. Conduit & Grounding Plan
 - SP880G Ext. Connections For 440 V. Auxiliaries
 - SP803G Misc. Electrical Details
 - SP981G Raw Sludge Piping From Sed. Basins
 - SP673G Sludge Disch. Piping & #3 Water Main
 - SP604G Raw Sludge Pump Installation

AS-BUILT		AUG. 6, '70	
6 - 68 Hot Water Conn. To Scum Line	Y.W.	J.D.F.	
9-10-57 Revised Exst. C.I. Raw Sludge Line To W.S.	Y.W.	J.D.F.	
NO.	DATE	REVISIONS	MADE BY
EAST BAY MUNICIPAL UTILITY DISTRICT			
SPECIAL DISTRICT NO. 1			
OAKLAND, CALIFORNIA			
SLUDGE DIGESTION TANK NO. 4			
~ MECHANICAL & ELECTRICAL ~			
RAW SLUDGE BOOSTER PUMP #2			
AT SED. BASINS			
DESIGNED BY EER & JDF	DRAWN BY J. Wong	TRACED BY	
CHECKED BY EER & JDF	DATE 2-57	SCALE AS SHOWN	
RECOMMENDED BY J.D.F.			
APPROVED BY J.H. Rouds			
No. SP 982 G			

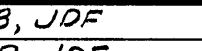
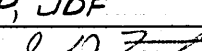


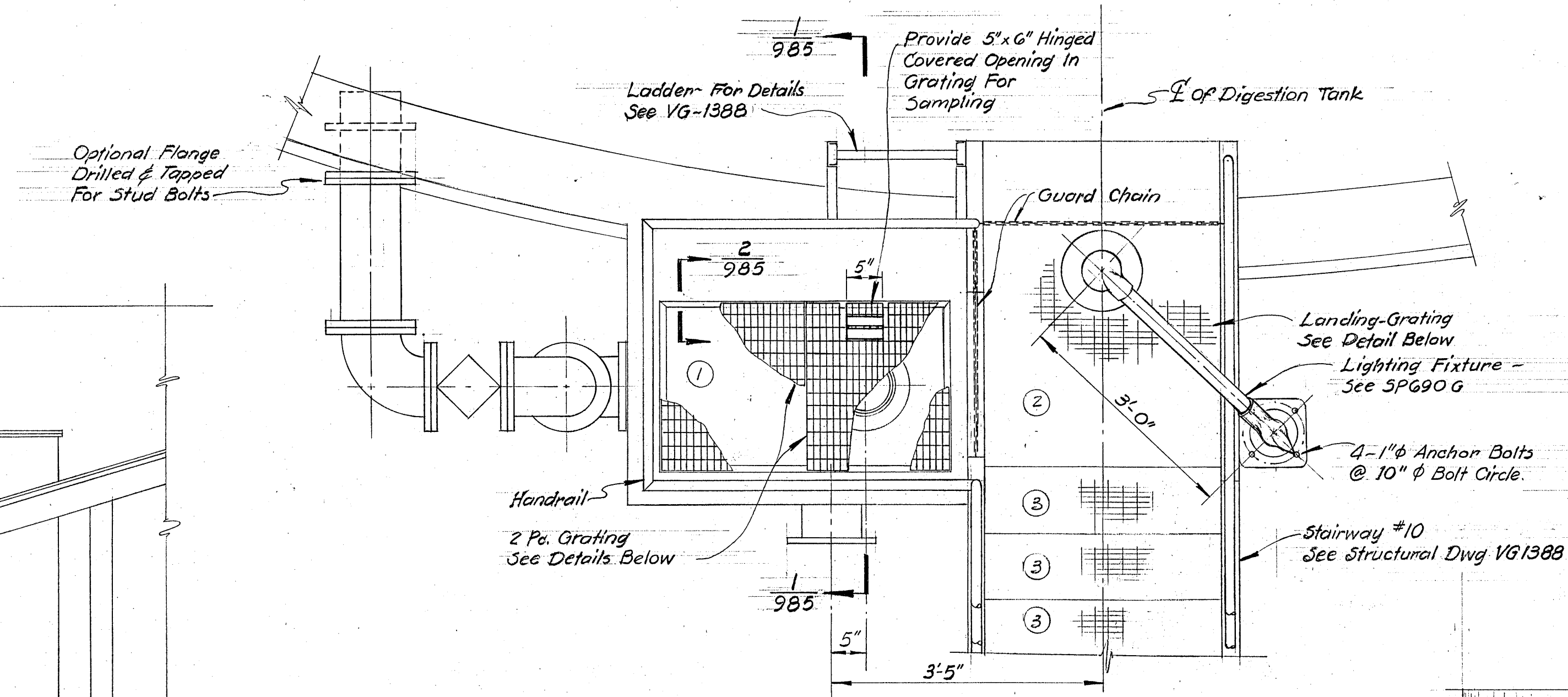
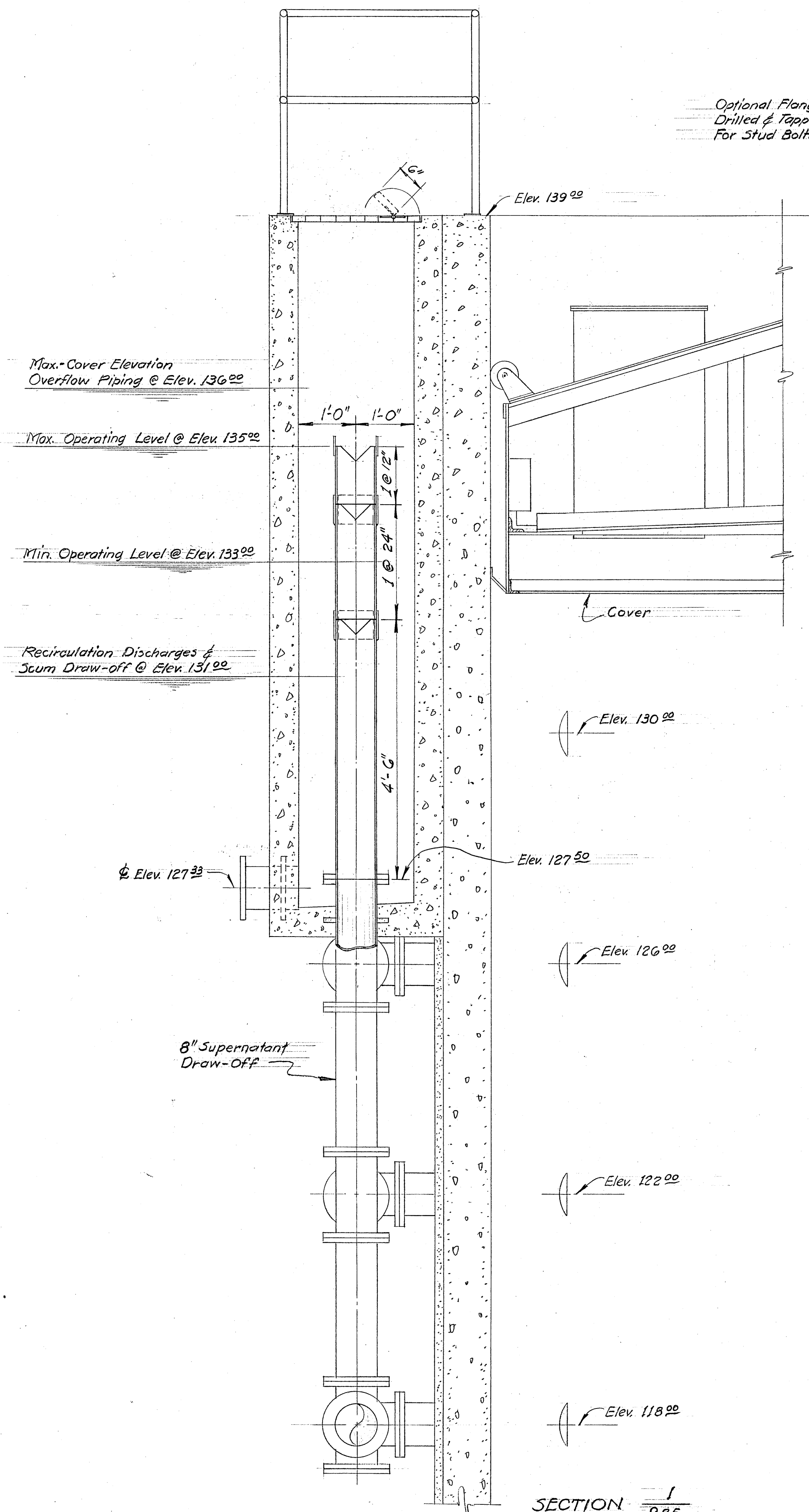
- Notes-**
1. Care Shall Be Taken In Laying Pipe Lines To Avoid Injury To Existing Pipes, Structures & Roadways.
 2. Digested Sludge Piping Shall Be Class 150 C.I. B. & S. Pipe, Cement Mortar Lined & Coal Tar Pitch Coated.
 3. Use Long Radius Bends Thruout.
 4. Dresser Couplings Shall Be Style 53 For C.I. Pipe, With Middle Ring Pipe Stops Removed & Armored Grade 27 Gaskets.
 5. Digested Sludge Piping System Will Have Max. Working Pressure Of 55 psig, & Shall Be Tested @ 80 psig For Not Less Than 30 Min.
 6. See Valve Pot & Cover Details On SP 877 G

	NO.	DATE	REVISIONS	MADE BY	CHKD. BY
	EAST BAY MUNICIPAL UTILITY DISTRICT				
	SPECIAL DISTRICT No. 1				
	OAKLAND, CALIFORNIA				
	SLUDGE DIGESTION TANK NO. 4				
	- MECHANICAL -				
	DIGESTED SLUDGE DISCHARGE				
SP878G Piping Details - Sheet 2	DESIGNED BY J.D. Foster		DRAWN BY Y. Wong		TRACED BY
SP877G Piping Details - Sheet 1	CHECKED BY E.E. Ross		DATE 1-11-57		SCALE 1"=40'-0"
SP876G No. 3 Water & Sludge Gas Systems	RECOMMENDED BY J.D. Foster		No. SP 983 G		
SP875G No. 1 & No. 2 Water Systems	APPROVED BY J.D. Foster				
SP789G Plant Utility Piping					
SP772G Outdoor Cond. - Adm. Area					
- REFERENCE DRAWINGS -					



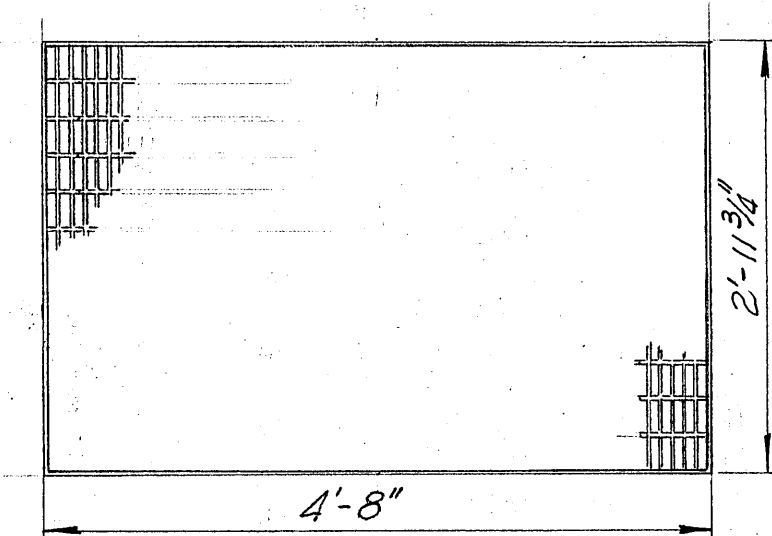
- Notes-
1. Refer To Drawg V-1589 For Support & Railing Details.
 2. Hot-Dip Galvanize in accordance With ASTM Spec. A123-47.
 3. Design Load = 200 lbs./sq.ft.
 4. Dimensions Shown Are Actual Sizes Of Grating Panels.
 5. 1"x 3/16" Bearing Bars
 6. All Panels To Be Spanded.
 7. Bearing Bars To Span In Direction Indicated On Drawing.

	1-24-56	Revised For Sump Breaker Piping	Y.W.	1107
NO.	DATE	REVISIONS	MADE BY	CHKD. BY
EAST BAY MUNICIPAL UTILITY DISTRICT				
SPECIAL DISTRICT No. 1				
OAKLAND, CALIFORNIA				
SLUDGE DIGESTION TANK NO. 4				
-MECHANICAL-				
<u>PIPE TRENCH GRATING</u>				
DESIGNED BY PLB, JDF		DRAWN BY PLB		TRACED BY Y.W.
CHECKED BY EWP, JDF		DATE 4-25-57		SCALE AS SHOWN
APPROVED BY 				
REVIEWED BY 		No. SP 984 G		



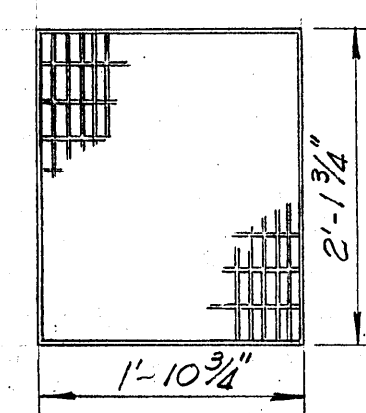
PLAN

Scale In Feet



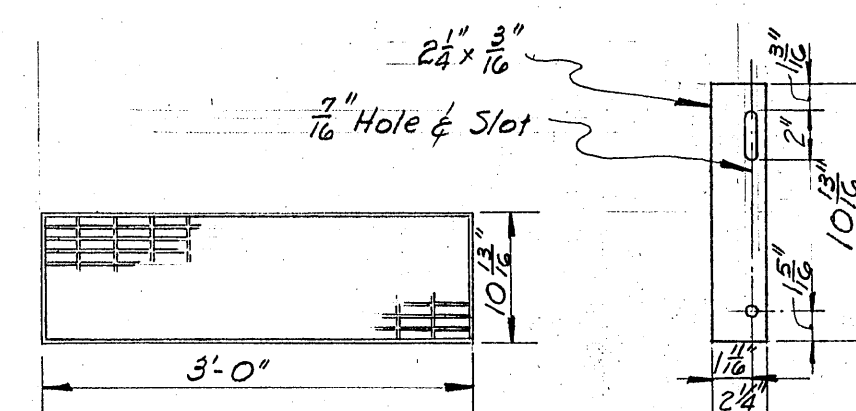
GRATING ②

Scale In Feet -
(1 Required)



GRATING ①

Scale In Feet -
(1 As Shown
1 With Hinged Opening)

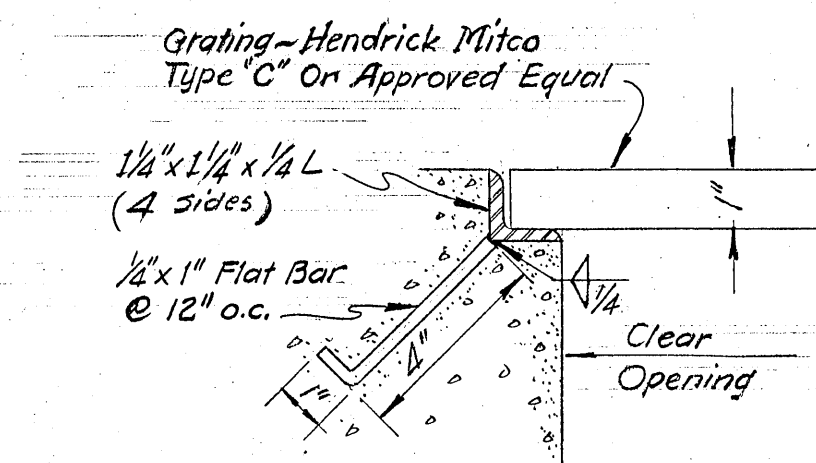


GRATING ③

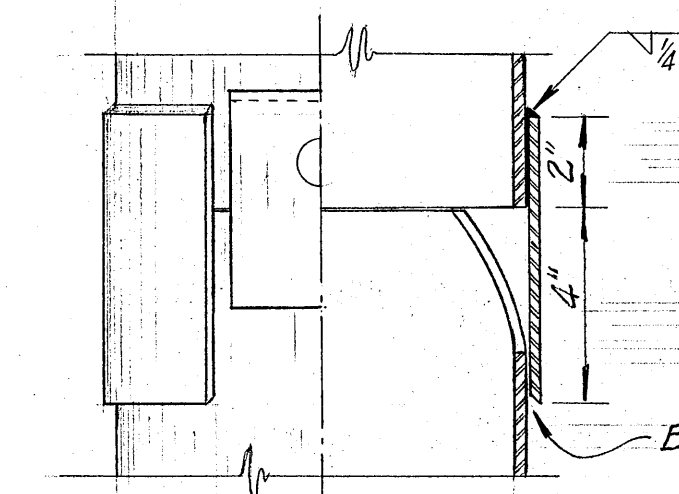
Scale In Feet -
(13 Required)

RIGHT SIDE VIEW

Scale In Feet



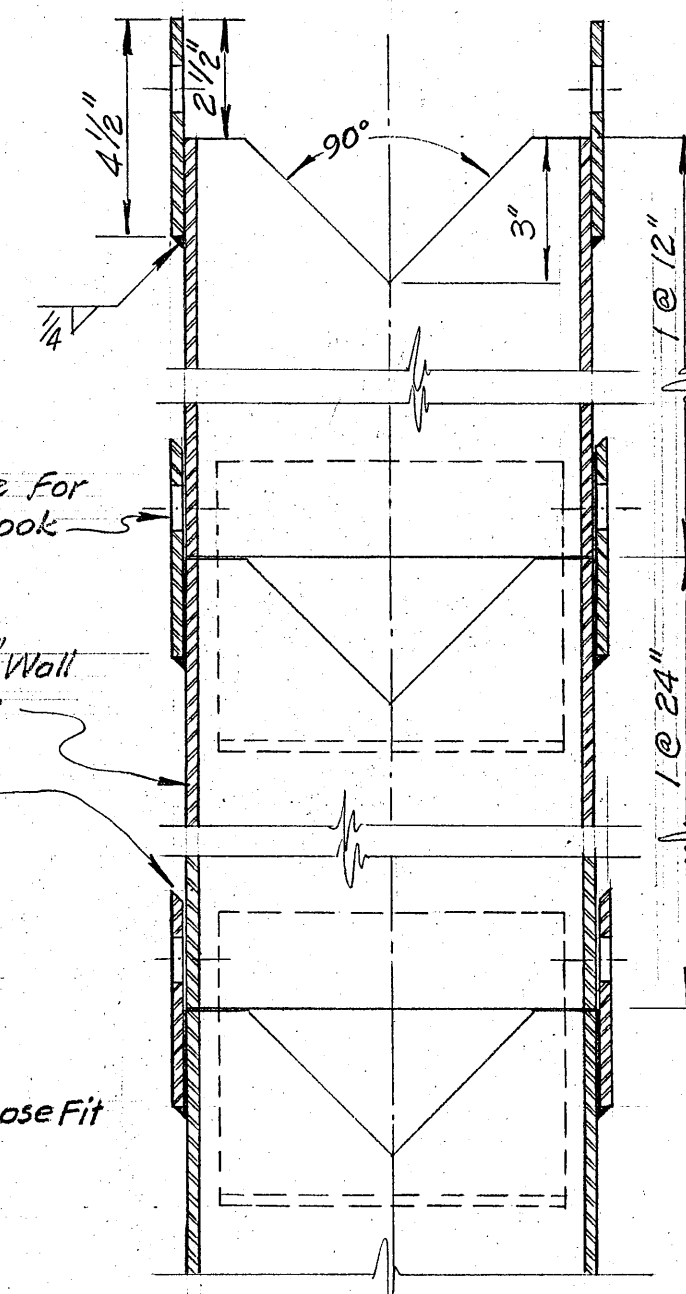
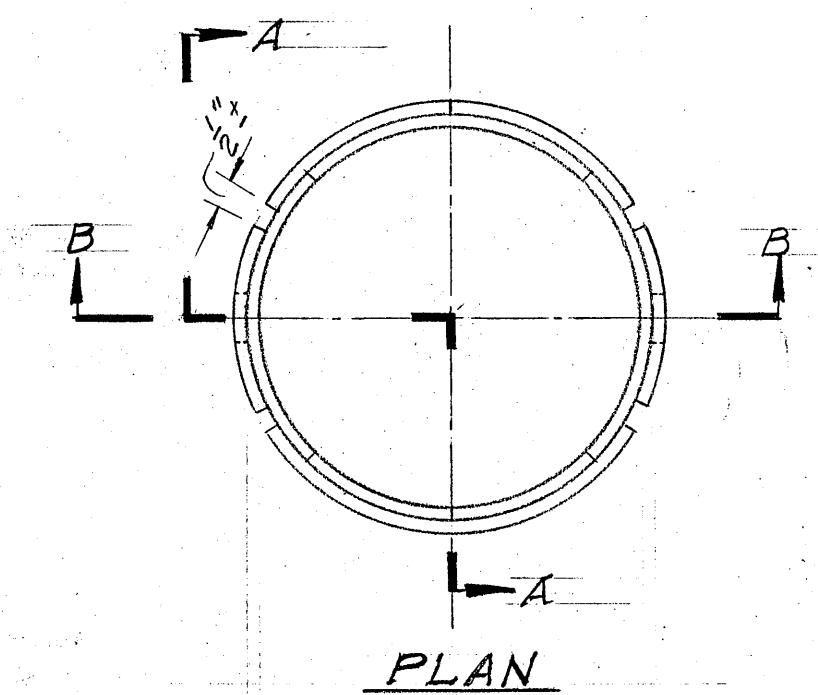
SECTION 2
985



SECTION A-A

Note:
Sections To Have A Loose Fit

OVERFLOW
LEVEL CONTROL

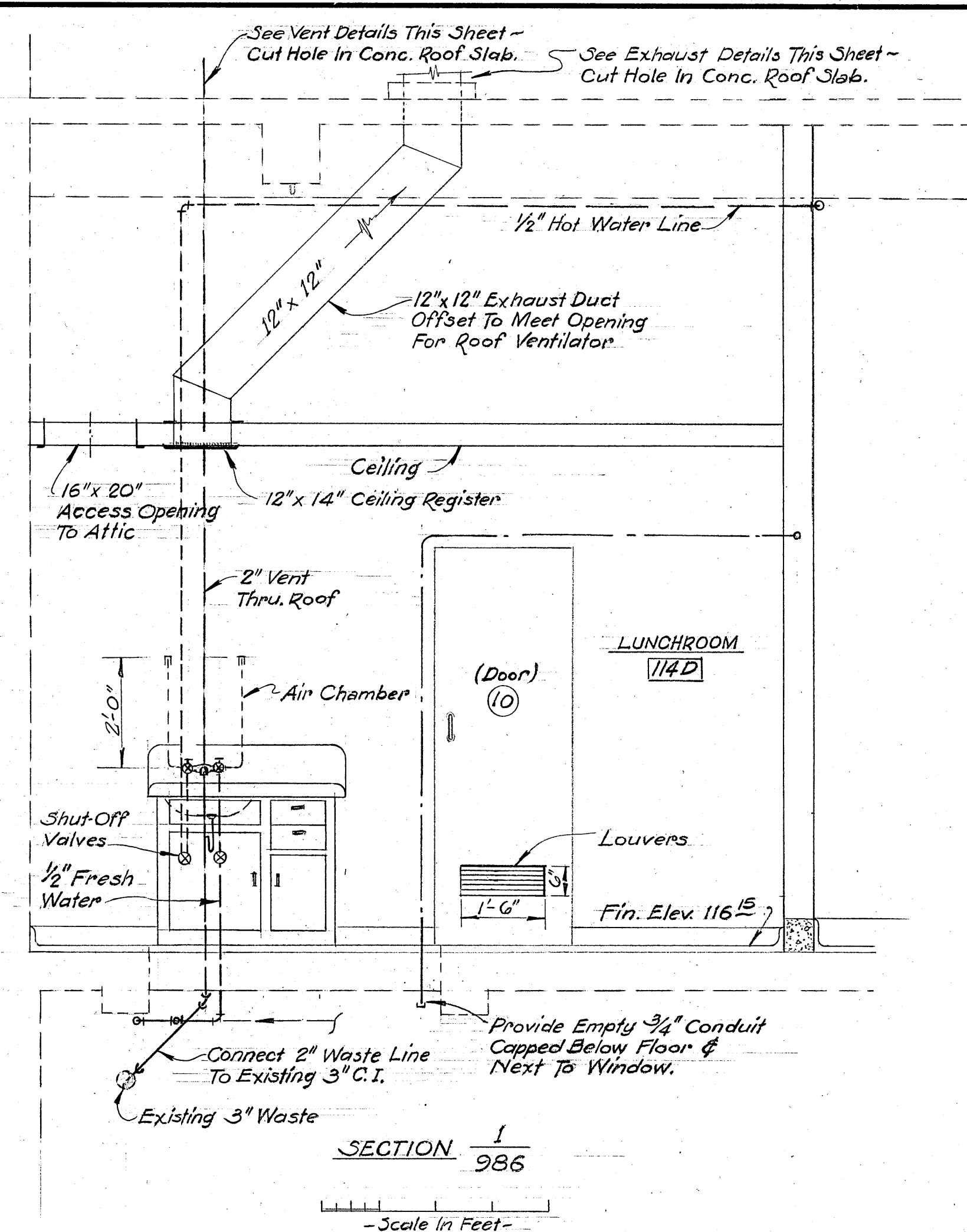
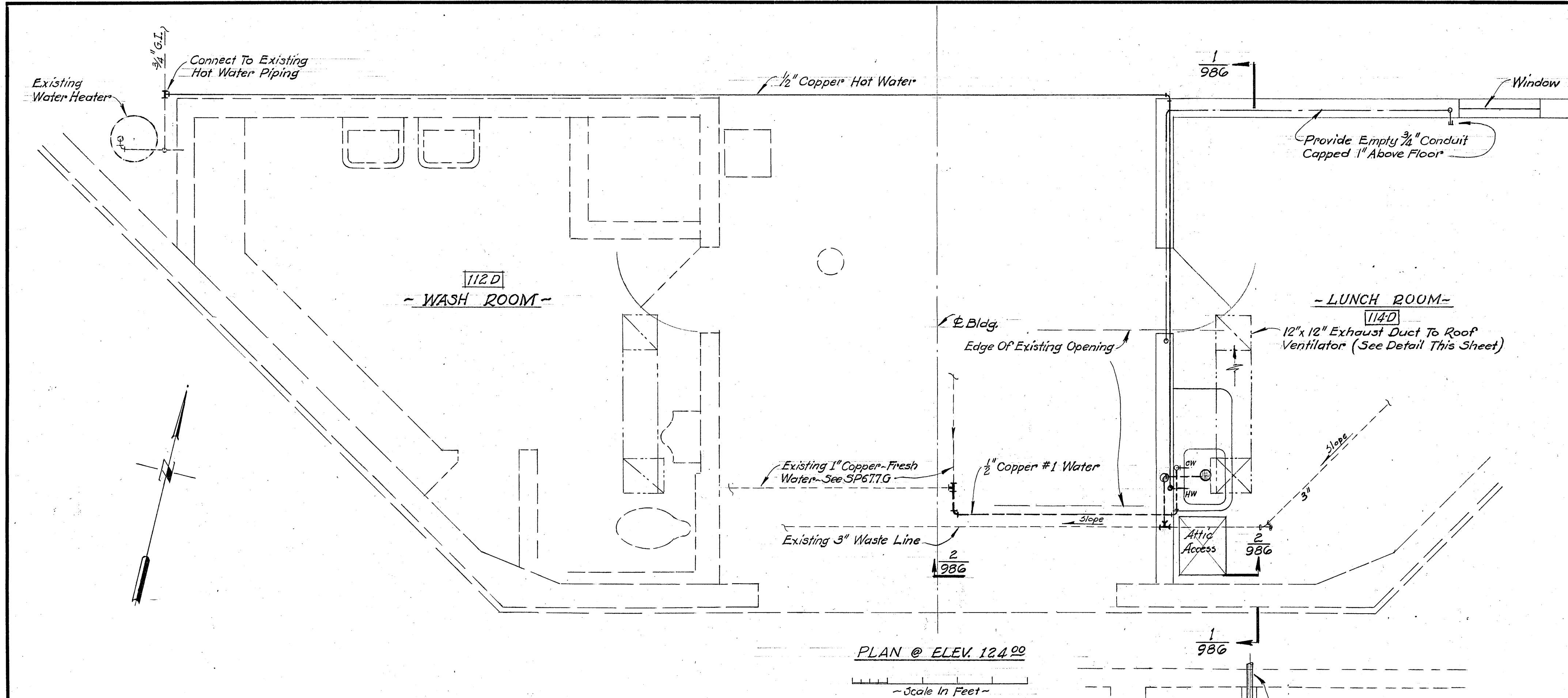


SECTION B-B

GRATING NOTES

1. Hot Dip Galvanize In Accordance With ASTM Spec. 123.
2. Design Load = 200 #/sq. ft.
3. Dimensions Shown Are Actual Sizes Of Grating Panels.
4. 1" x 3/16" Bearing Bars To Span Direction Indicated.
5. All Panels Banded.

NO.	DATE	REVISIONS	MADE BY	CHKD. BY
EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT NO. 1 OAKLAND, CALIFORNIA				
SLUDGE DIGESTION TANK NO. 4 - MECHANICAL -				
OVERFLOW CONTROL INSTALLATION				
DESIGNED BY EE Ross				
CHECKED BY JD Foster				
RECOMMENDED BY J. D. Foster				
APPROVED BY J. D. Foster				
VG 1384 Tank Plan & Details SP804.G Telescopic Valve Installation - REFERENCE DRAWINGS -			DRAWN BY Y. W. DATE 4-26-57	
			TRACED BY SCALE As Shown	
			No. SP-985-G	



Installed 12" Breident Type H Powin-X-hauster Model No. H1211, 1/2 HP, 1160 RPM, 865 C.F.M. 12 Volt, Aluminum, Complete With Square Base (Provided On-Off Switch In Lunchroom)

For Flashing & Mounting, See Flashing Detail @ Right

Attach Duct To 12" x 12" x 1/2" Frame. Attach Frame To Roof Slab With Drive Anchor

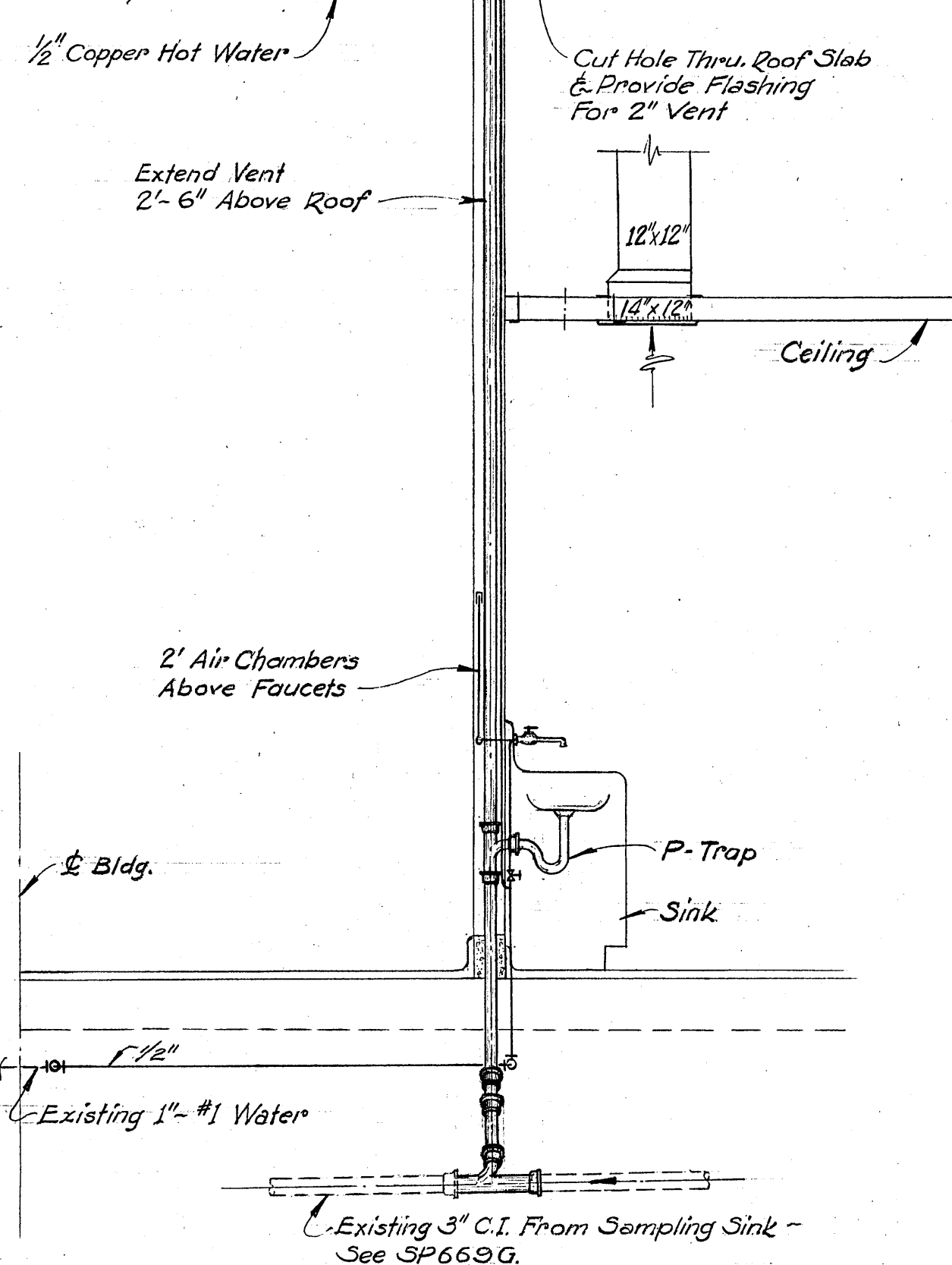
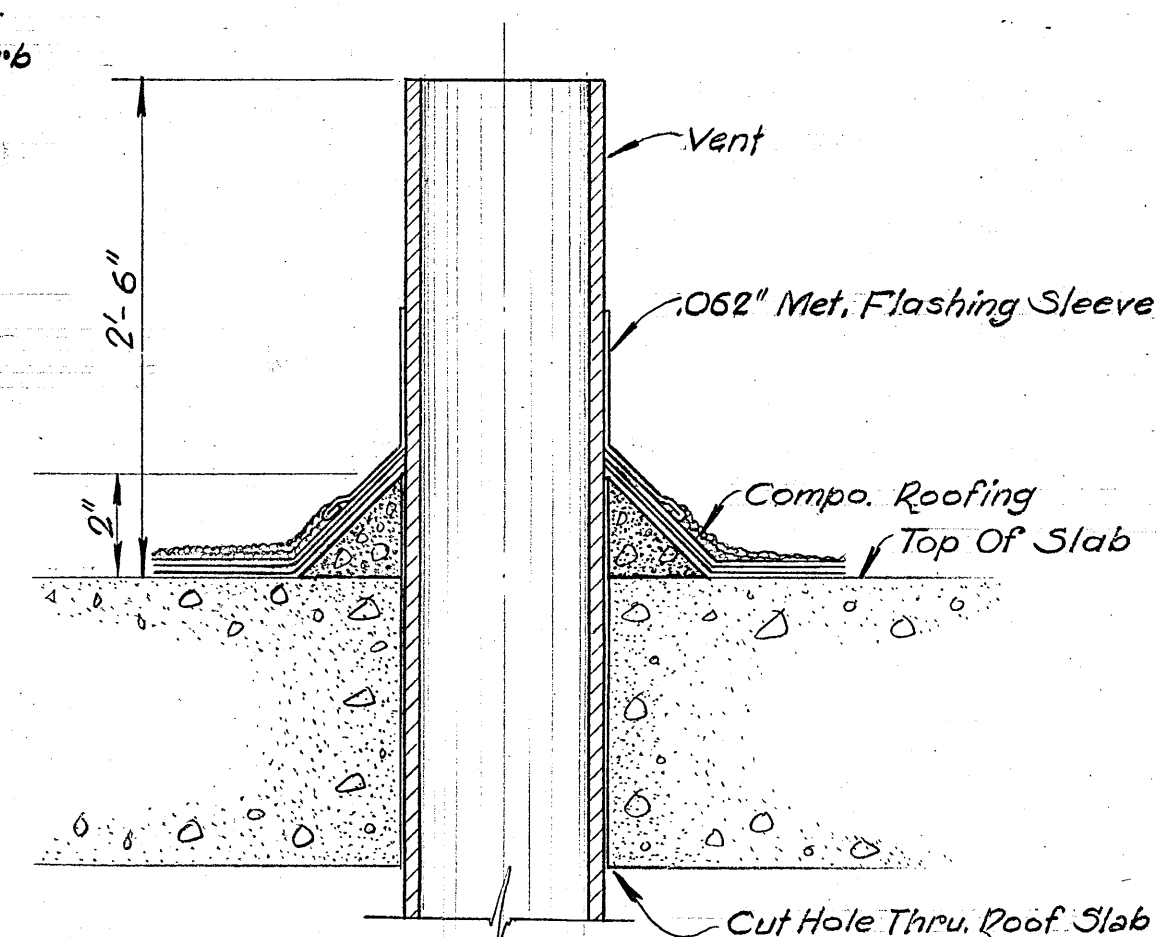
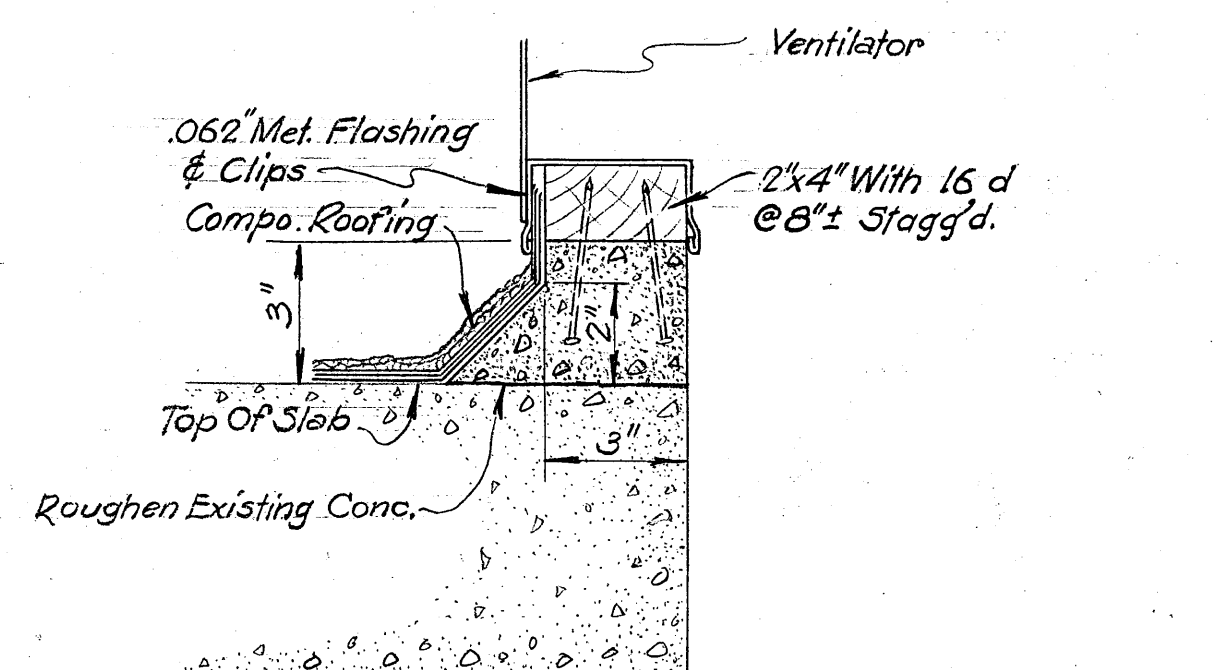
Roughen Existing Conc. & Pour 3" x 3" Conc. Curb On Four Sides

12" x 12" Duct

12" x 14" Register In Lunch Room Ceiling. For Location, See Plan

LUNCHROOM VENTILATOR

-Not To Scale-

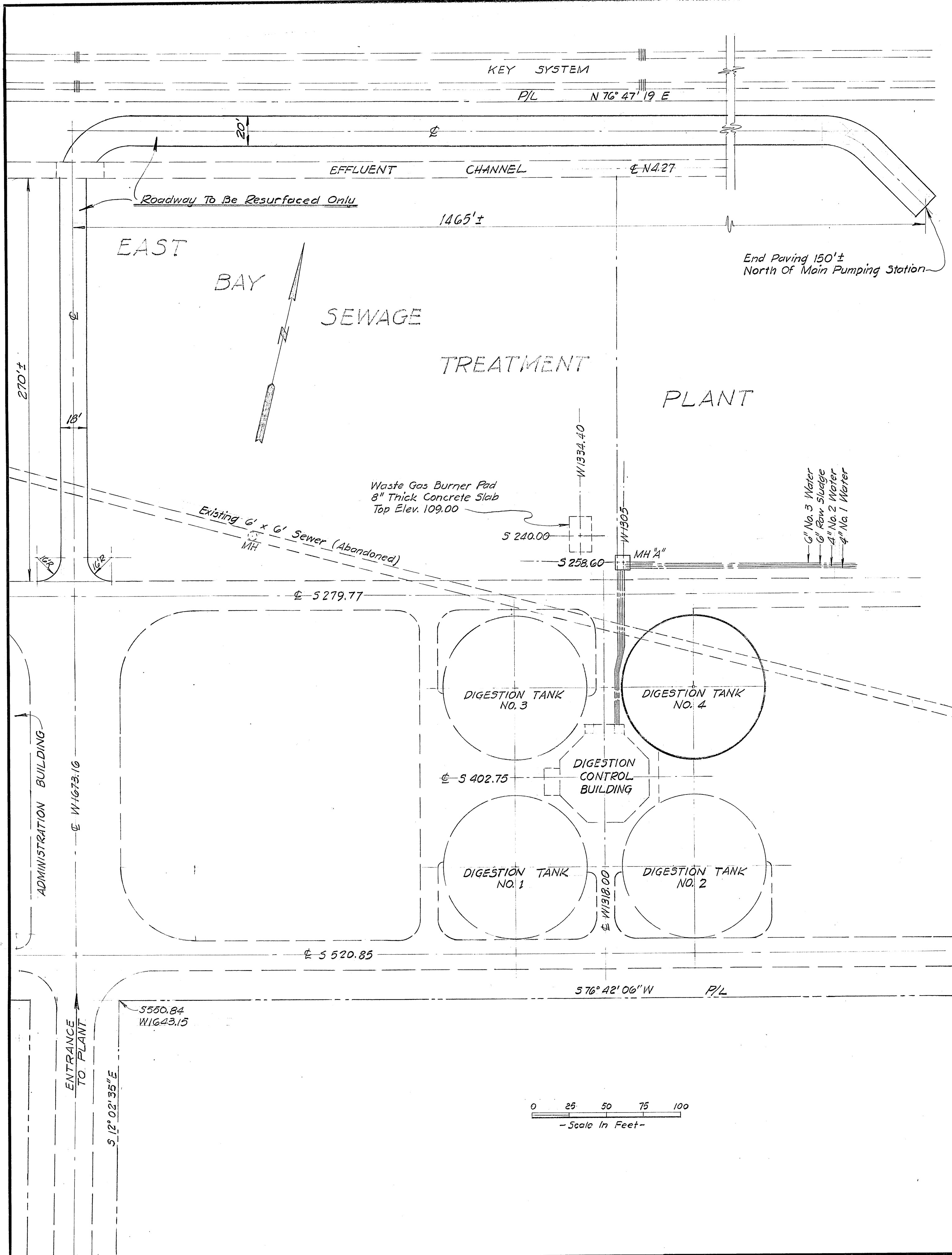


- Notes -
1. All Fresh Water Piping Shall Be Mueller Type K Copper Tubing & Fittings Or Approved Equal.
 2. All Exposed Metal Fixtures & Piping In Lunchroom Shall Be Chrome Plated.
 3. All Horizontal Drainage Piping Shall Be Run @ A Grade Not Less Than 1/4" per Ft.
 4. Each Fixture Supply Branch Shall Be Fitted With An Air Chamber Of The Same Size As The Branch & Shall Be 24" In Length.
 5. The Working Pressure Of The Supply System Shall Be 55 psi. The System Shall Be Tested To 150% Of Working Pressure (80 psi).
 6. See Specs. For Applicable Plumbing Codes & Proper Testing Procedure.

VG980 - Cabinet & Misc. Details
 VG984 - Dig. Control Bldg Washroom Details
 SP757G - Washroom Piping Layout
 SP677G - #1, #2 & #3 Water Systems & 100" Comp. Air

-REFERENCE DRAWINGS-

AS-BUILT		SEPT. 1963	
1	9-26-63	Installed 12" Breident (Was 10")	Y.W.
NO.	DATE	REVISIONS	MADE BY
			CHKD BY
EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT No. 1 OAKLAND, CALIFORNIA			
DIGESTION CONTROL BUILDING -MECHANICAL-			
LUNCHROOM PIPING <u> & VENTILATING </u>			
DESIGNED BY EER, JDF	DRAWN BY M.A		TRACED BY Y.W.
CHECKED BY EER, JDF	DATE 4-18-57		SCALE AS SHOWN
RECOMMENDED BY J.D. Smith			
APPROVED BY J.D. Smith			
No. SP 986 G			



GENERAL - NOTES

All Design Is In Conformance With The 1946 Edition Of Uniform Building Code And Assumes Full Hydrostatic Uplift Acting Over The Entire Base.

Key To Drawing Cross Referencing; Section Symbols Shown On STRUCTURAL Drawings Indicate The Section Number By The Numerator, And The Number Of The Drawing On Which The Section Is Cut Or Detailed By The Denominator. As An Example, Refer To

Section $\frac{2}{1382}$ On Drawing No. VG 1381

This Indicates That Section 2 Will Be Found Detailed On Drawing No. VG 1382 Similarly, This Section On Drawing No. VG 1382 Is Designated

$\frac{2}{1381}$

Which Refers The Reader To The Drawing On Which The Section Is Cut, i. e., On VG 1381.

Definitions Of Letter Designations:

E. W. -- Each Way	W -- Wall	WG -- Wall Girder
O. C. -- On Center	Col. -- Column	RB -- Roof Beam
Clr -- Clear	S -- Slab	CG -- Cross Girder
E -- Centerline	B -- Beam	CB -- Cross Beam
C. I. -- Cast Iron	G -- Girder	PW -- Parapet Wall
V. C. -- Vitrified Clay	WB -- Wall Beam	WC -- Wall Column
R. C. -- Reinforced Concrete	RS -- Roof Slab	Inv. El. -- Inv. Elevation
B & S -- Bell & Spigot	RG -- Roof Girder	PC -- Pile Cap

Room Numbers Are Designated Thus: 110D

For Index To Drawings, See Dwg No. VG 950

For Details & Locations Of MECHANICAL Equipment, Refer To Mechanical Drawings

For Details & Locations Of ELECTRICAL Equipment, Refer To Electrical Drawings

Reinforcing Steel Shall Be Deformed Rods Of Intermediate Grade As Noted In The Specifications.

Unless Otherwise Noted On The Plans, Minimum Cover For Reinforcing Steel Shall Be:

- 3" For Base Slab In Contact With Soil.
- 1 1/2" For Vertical Bars In Columns, Interior & Exterior Wall Surfaces,
- & To Flexure Steel In Beam & Girders.
- 3/4" For Slabs.
- 2" Clear From Top Of Piles In Base Slab.
- 2" Clear For Walls In Contact With Soil.

All Bars Shall Be Lapped A Minimum Of 25 Diameters Unless Otherwise Noted.

All Concrete Edges Inside The Structure Shall Be Chamfered 1" Unless Otherwise Noted Or Directed By The Engineer. Concrete Edges Outside The Structure Shall Be Chamfered Only When Directed By The Engineer.

Anchor Bolts For MECHANICAL & ELECTRICAL Equipment Are Shown On, & Shall Be Placed In Accordance With MECHANICAL, ELECTRICAL & MANUFACTURERS' Drawings.

Size & Details Of Structural Members Shown On These PLANS Do Not Include Variations Due To Drainage Slopes.

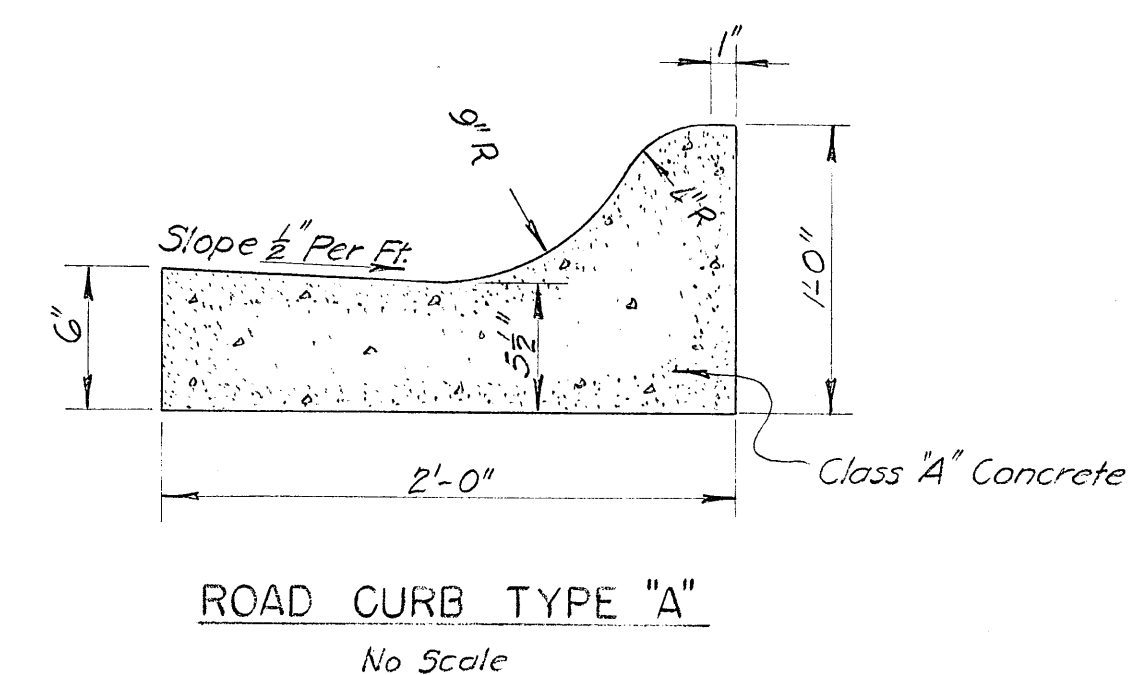
All Dowels Shall Extend 2'-6" Above Construction Joint Unless Otherwise Noted.

Datum (Sewage Project Base) Is 100' Below U.S. G. S. Datum.

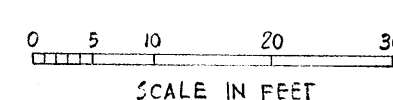
For Details Of Foundation Preparation, See Specifications.

Note: Solid Lines Indicate Work To Be Performed Under SD-96.

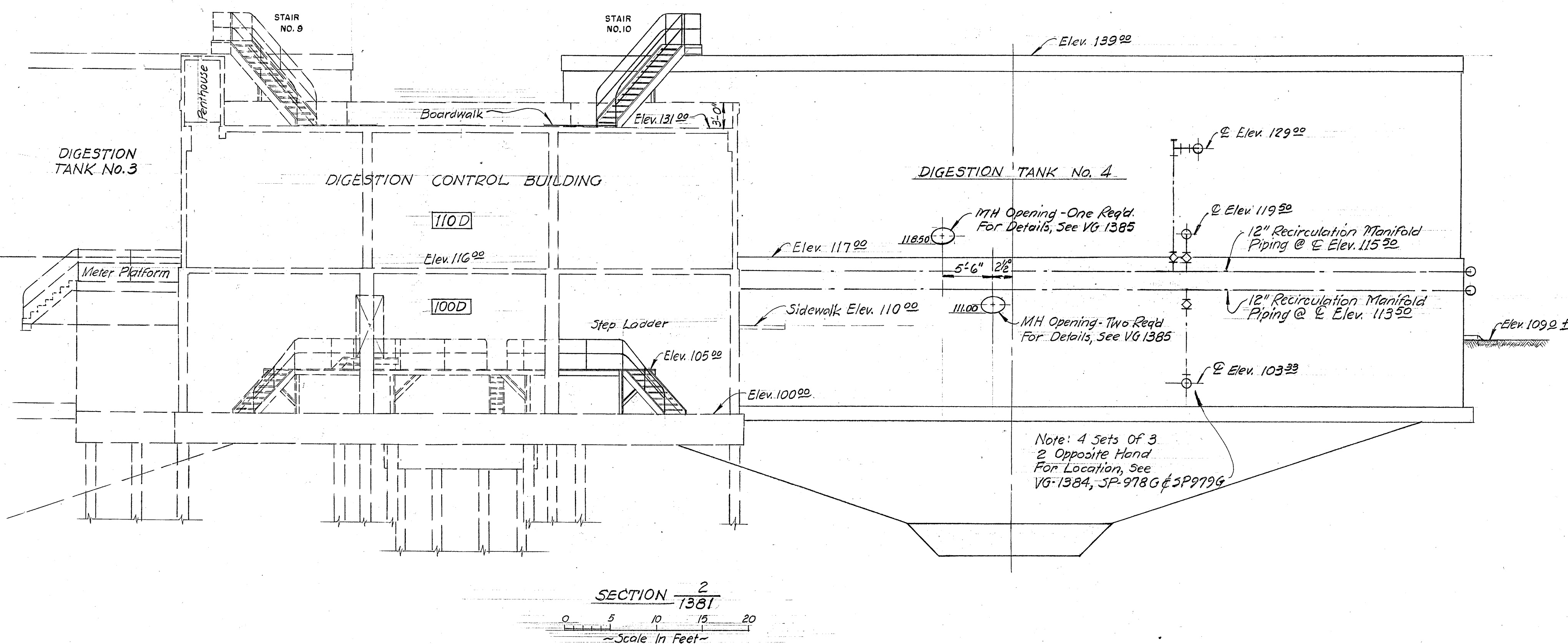
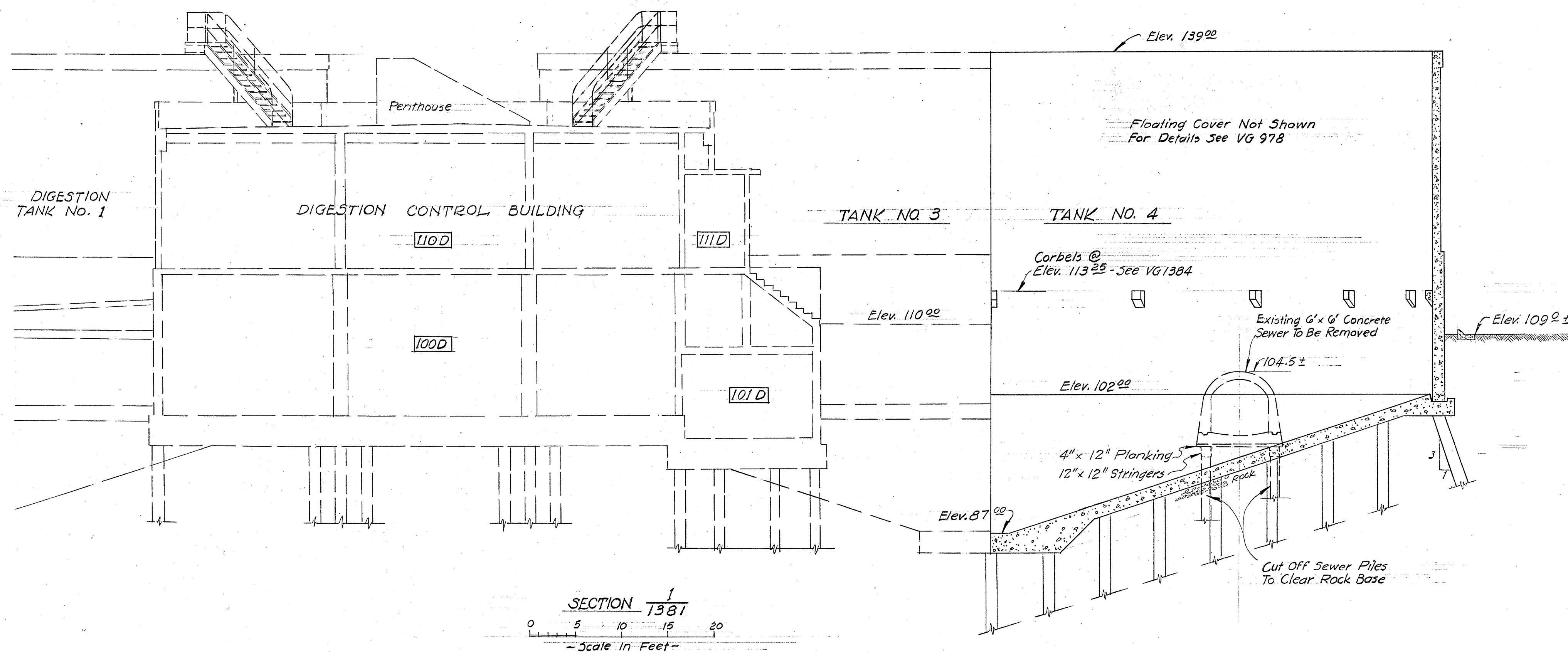
NO.		DATE	REVISIONS		MADE BY	CHKD. BY
EAST BAY MUNICIPAL UTILITY DISTRICT						
SPECIAL DISTRICT No. 1						
OAKLAND, CALIFORNIA						
SLUDGE DIGESTION TANK NO. 4						
-GENERAL-						
PLOT PLAN & NOTES						
VG 952-Plot Plan						
VG 951-Location Plan & General Notes.						
-REFERENCE DRAWINGS-						
DESIGNED BY H. R. PIRKNER			DRAWN BY E. E. J.		TRACED BY Y. Wong	
CHECKED BY S. KORETSKY			DATE 9-26-56		SCALE As Shown	
RECOMMENDED BY J. D. B. B.						
APPROVED BY H. R. PIRKNER			No. VG 1380			



- Notes
1. For General Notes See VG 1380
 2. For Digestion Tank Details See VG 1384 & VG 1385
 3. For Details Of Piles See VG 1383
 4. For Foundation Preparation See Specifications
 5. For Plot Plan See VG 1380
 6. For Log Of Borings See VG 953
 7. Asphalt Pavement To Be 2" Asphaltic Concrete Over 6" Crusher Run Base.



	NO.	DATE	REVISIONS	MADE BY	CHECKED BY
	EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT No. 1 OKLAND, CALIFORNIA				
	SLUDGE DIGESTION TANK NO. 4 -STRUCTURAL- CURB & PAVING DETAILS				
	DESIGNED BY <i>W.L.S. & J.D.F.</i>				
	CHECKED BY <i>D.W.O. & J.D.F.</i>				
	RECOMMENDED BY <i>J.D. Smith</i>				
	APPROVED BY <i>J.H. Knecht</i>				
	DRAWN BY <i>D. H.</i>		DATE <i>10-11-56</i>		TRACED BY <i>V.V.H.</i>
			SCALE <i>As Shown</i>		
	No. <i>VG-1381</i>				
<i>VG 1226-Curb & Paving Details</i> <i>VG 955-General Plan-Control Bldg & Digestion Tanks</i> REFERENCE DRAWINGS					

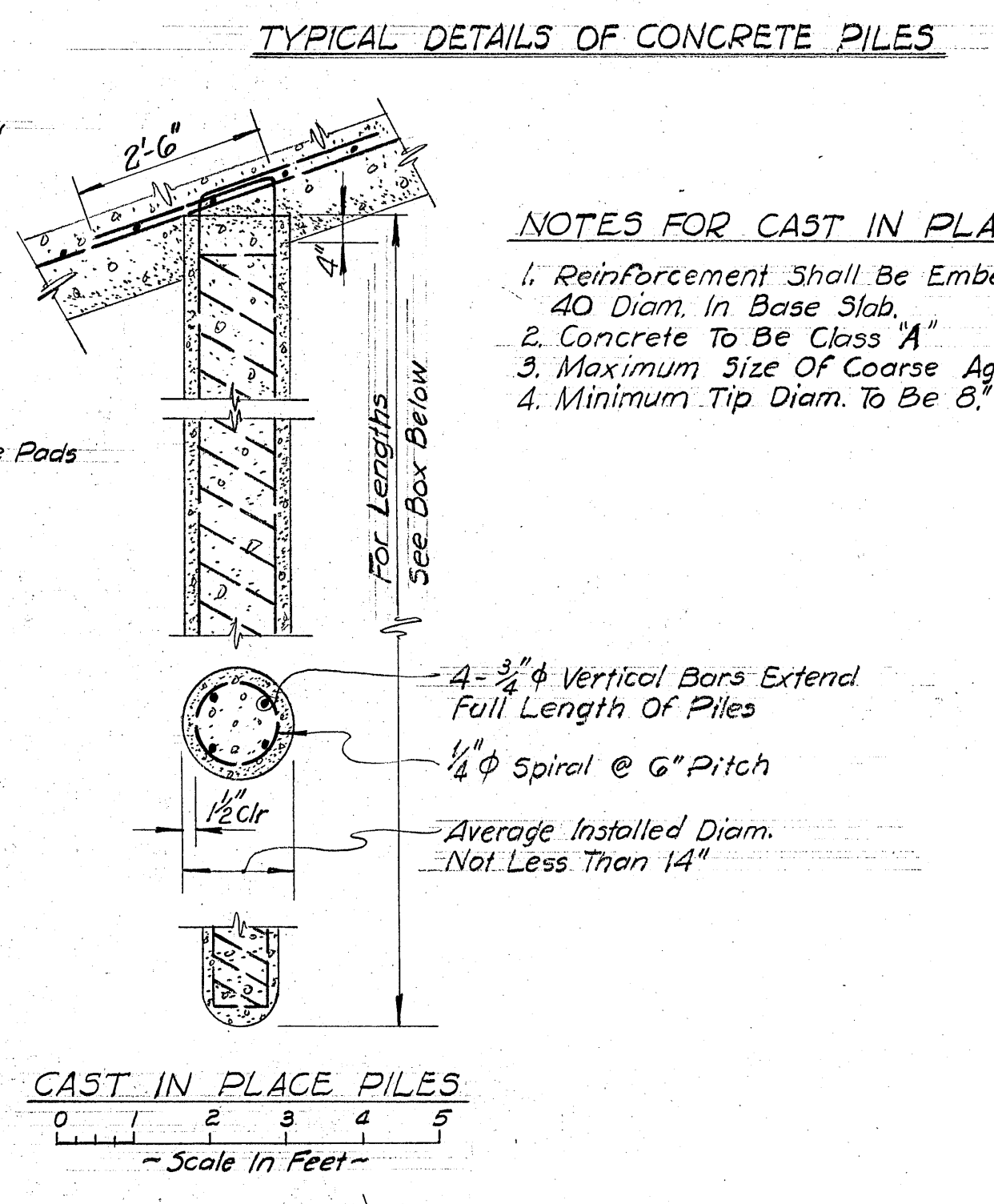
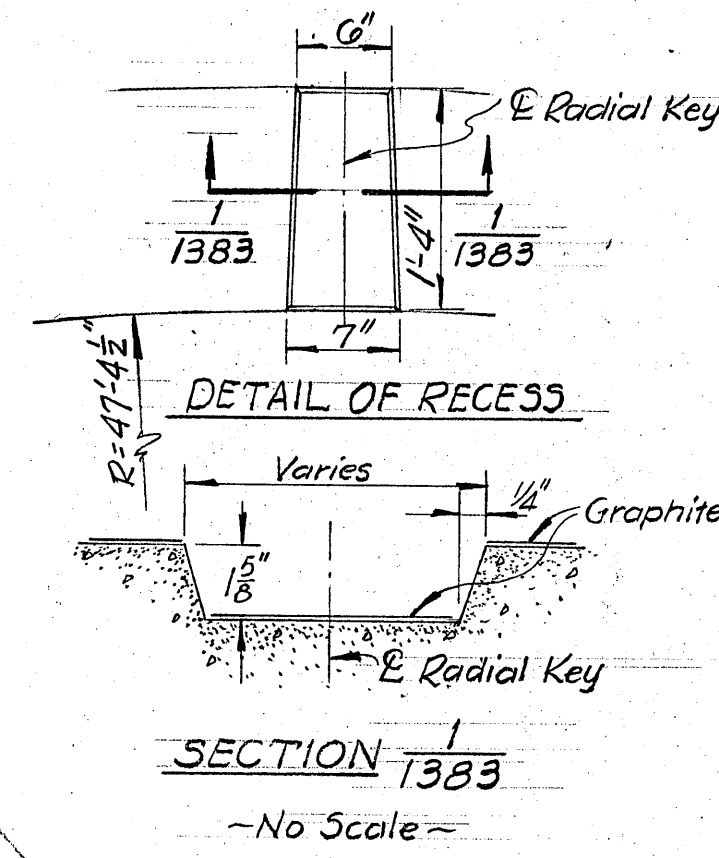
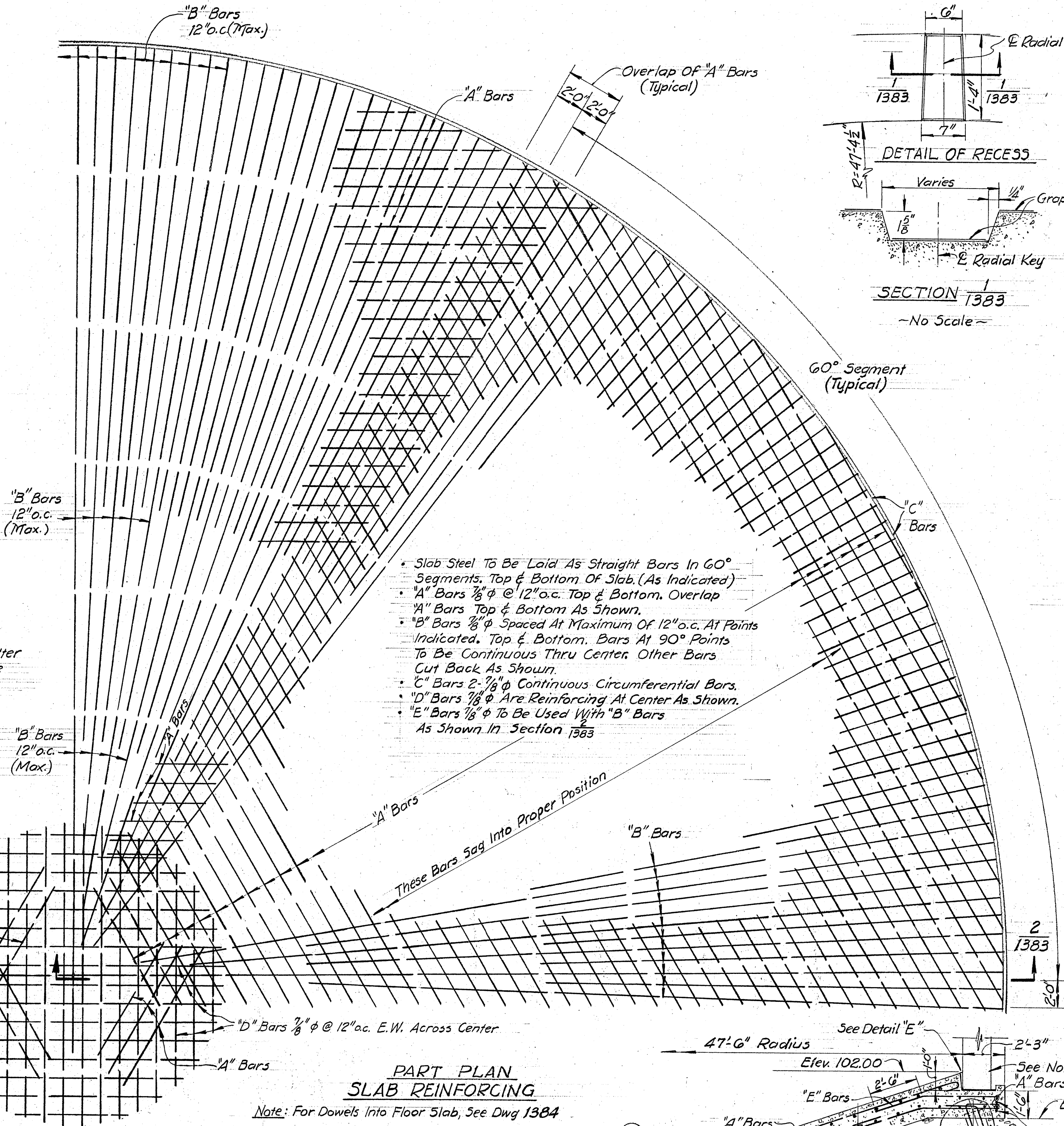
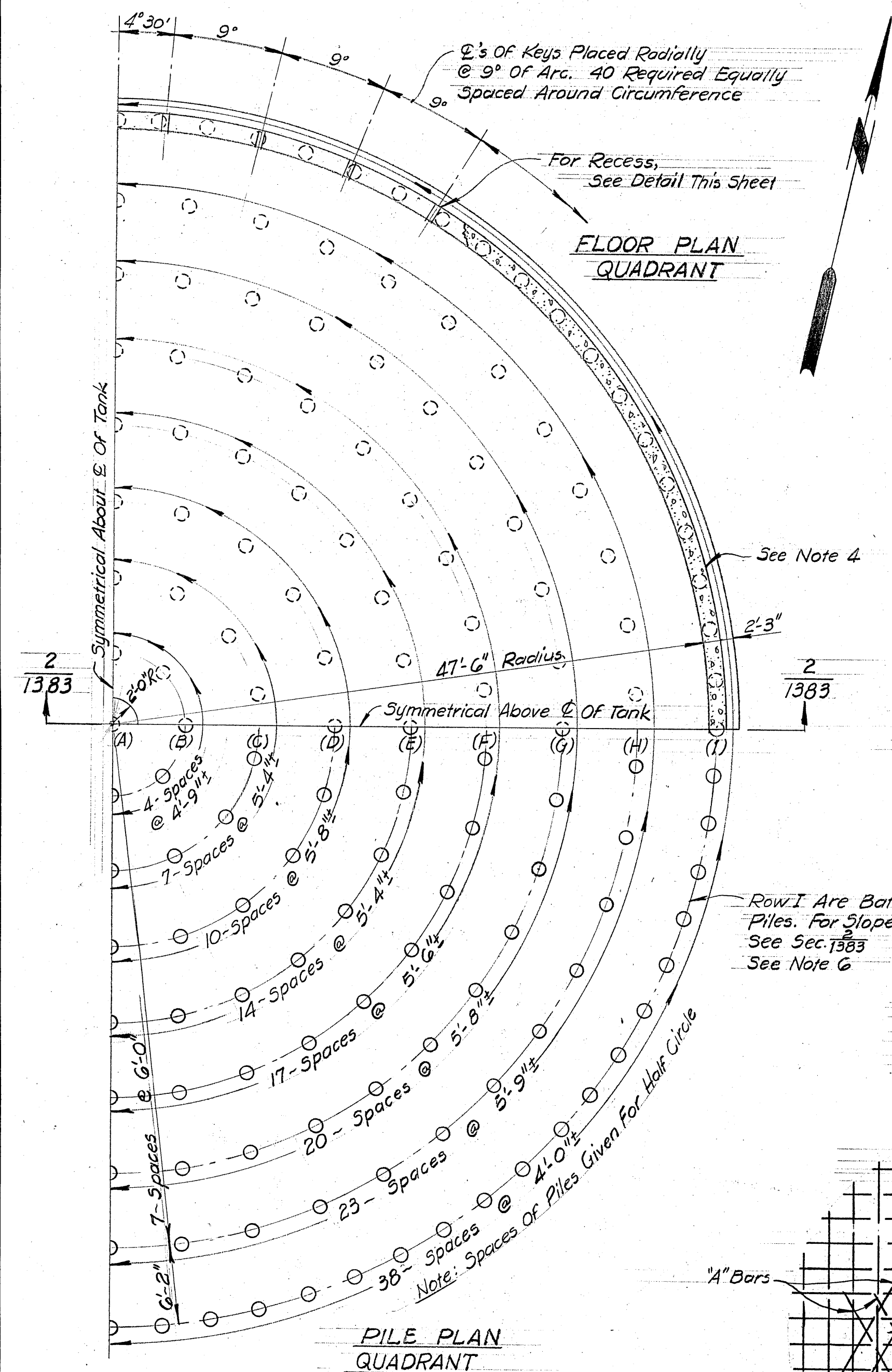


- Notes-*
1. For General Notes See VG 1380
 2. Piping & Pipe Supports Not Shown. See VG 1384 & Tech. Dwg.
 3. For Piling See VG 1383.
 4. For Floating Cover, See VG 978.

VG 1381 - Curb & Paving Details
VG 956 - Cross Sections

- REFERENCE DRAWINGS -

NO.	DATE	REVISIONS	MADE BY	CHECKED BY
EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT NO. 1 OAKLAND, CALIFORNIA				
SLUDGE DIGESTION TANK NO. 4 - STRUCTURAL - CROSS - SECTIONS				
DESIGNED BY	H. R. PIRKNER	DRAWN BY	CFK	TRACED BY, Wong
CHECKED BY	S. KORETSKY	DATE	9-8-56	SCALE As Shown
RECOMMENDED BY	<i>[Signature]</i>	APPROVED BY	<i>[Signature]</i>	No. VG-1382



NOTES FOR CAST IN PLACE PILES

1. Reinforcement Shall Be Embedded 40 Diam. In Base Slab.
2. Concrete To Be Class "A"
3. Maximum Size Of Coarse Aggregate To Be $\frac{3}{4}$ "
4. Minimum Tip Diam. To Be 8"

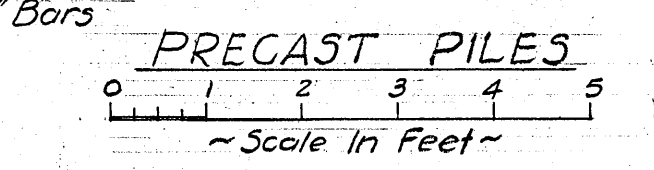
NOTES FOR PRECAST PILES

1. Reinforcement Steel In Piles Must Be Centered Accurately Within A Tolerance Of $\frac{1}{8}$ "
2. No Bar May Be Spliced Within 20 Feet Of Top Of The Pile Nor At A Point Of Max. Stress.
3. Splices Shall Provide Sufficient Lap To Transfer The Stress Between Bars By Bond & Shear.
4. Concrete Shall Develop A Minimum Compressive Strength Of 3500 lbs Per Square Inch At 28 Days.
5. Maximum Size Of Coarse Aggregate To Be $\frac{1}{2}$ "

NOTES

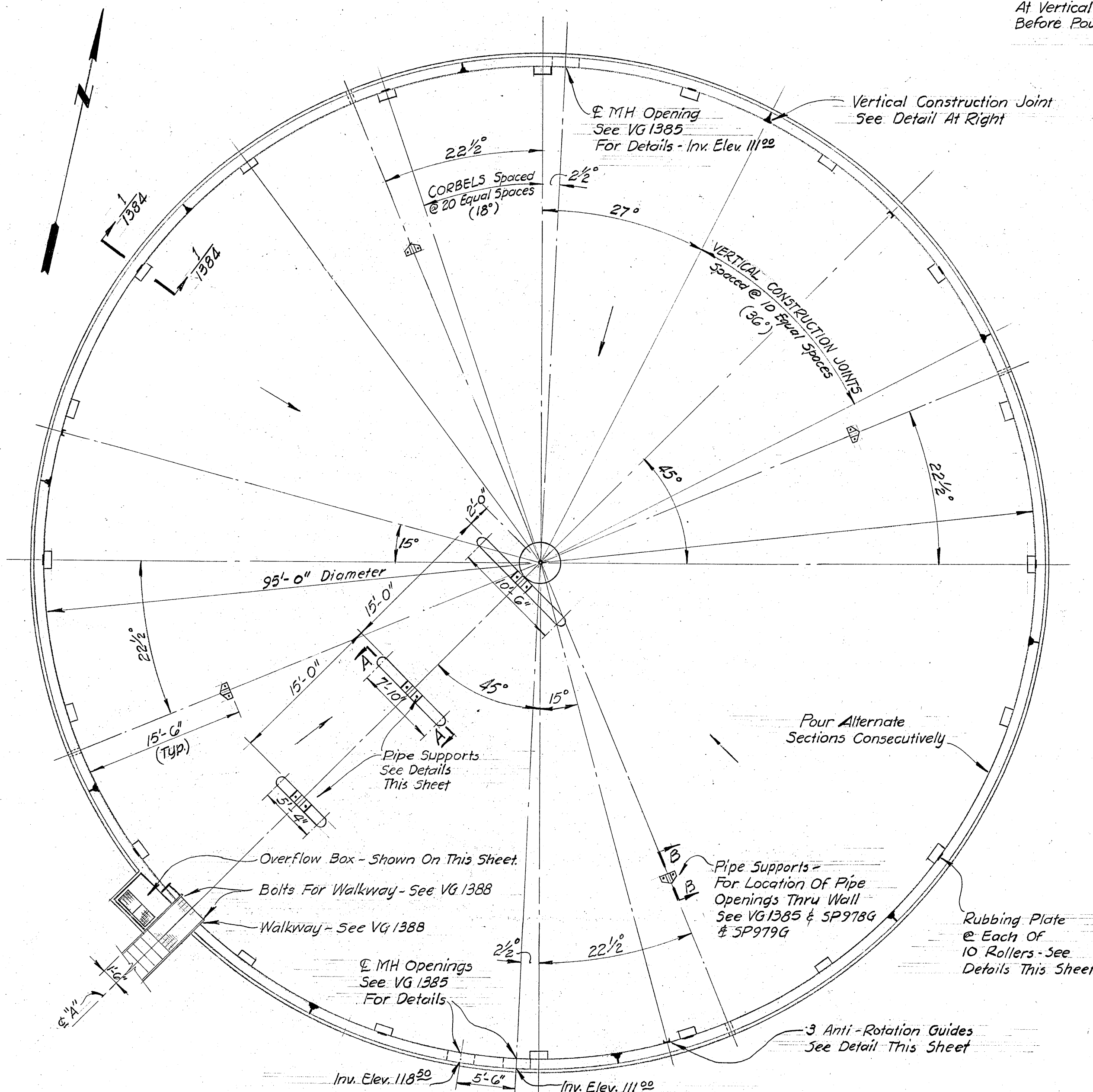
1. For General Notes See VG 1380.
2. For Plot Plan See VG 1380.
3. Concrete For Tank Base Slab To Be Placed In One Continuous Pour.
4. For Details Of Walls See VG 1385.
5. Dowels For Pipe Supports In Tank Base Slab Not Shown, See VG 1384
6. Batter Piles To Be Driven In A Radial Direction Except In The Vicinity Of The Control Bldg Where To Be Driven To Clear Existing Piles.

FILE NO.	NO. OF PILES	CUTOFF ELEV.	NOMINAL PILE LENGTH
A	1	85.33	20
B	8	85.33	20
C	14	89.00	23
D	20	90.00	25
E	28	92.96	27
F	34	94.94	29
G	40	96.92	31
H	46	98.89	33
I	76	100.04	36

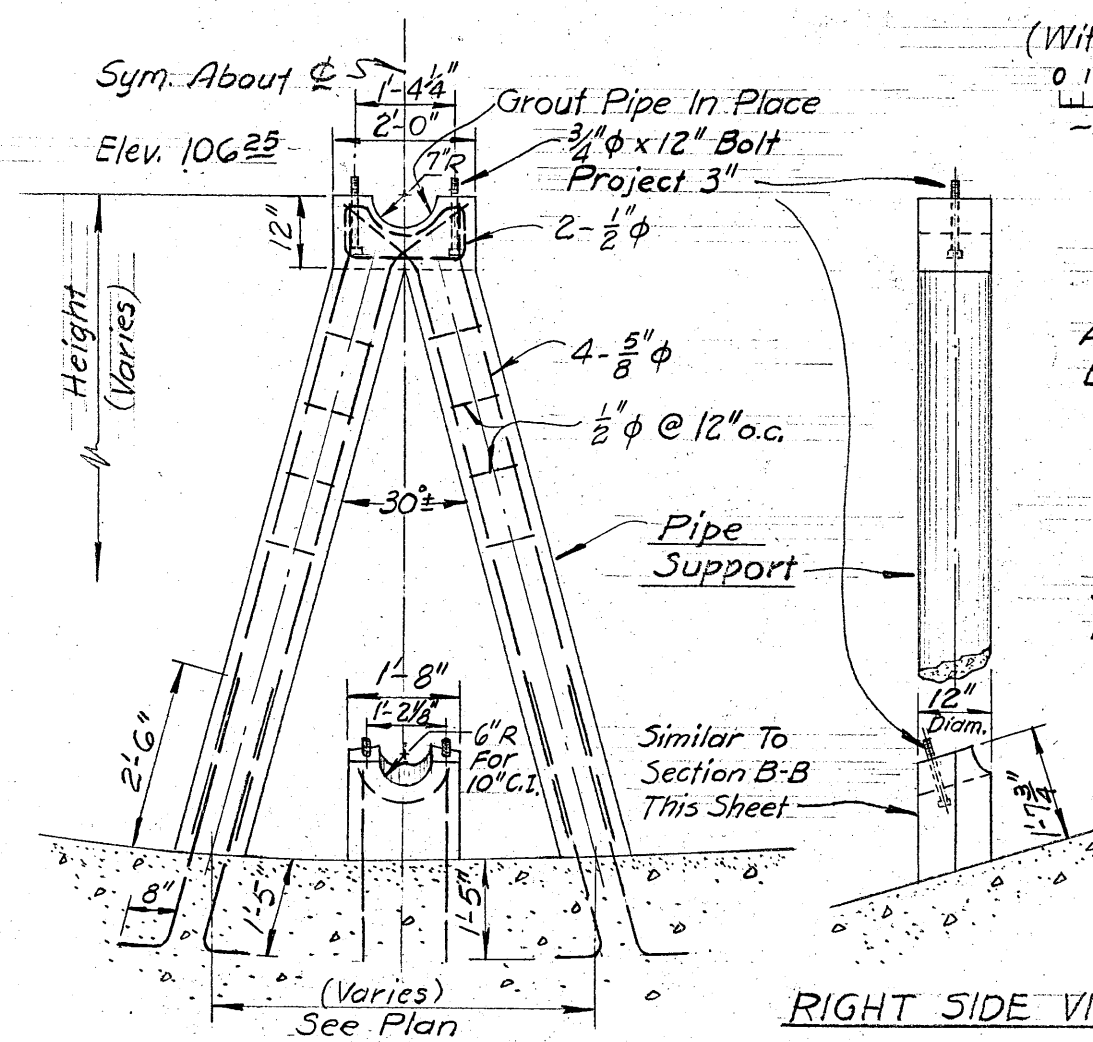


EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT NO. 1 OAKLAND, CALIFORNIA		DESIGNED BY HRP & JDF CHECKED BY SK & BGG RECOMMENDED BY J. D. Z... APPROVED BY W. H. ...	DRAWN BY CFK DATE 3-8-57 SCALE As Shown	TRACED BY YW No. VG 1383
---	--	--	--	---

VG 951- Tank Foundation Details
-REFERENCE DRAWINGS-



PLAN OF SLUDGE DIGESTION TANK NO. 4

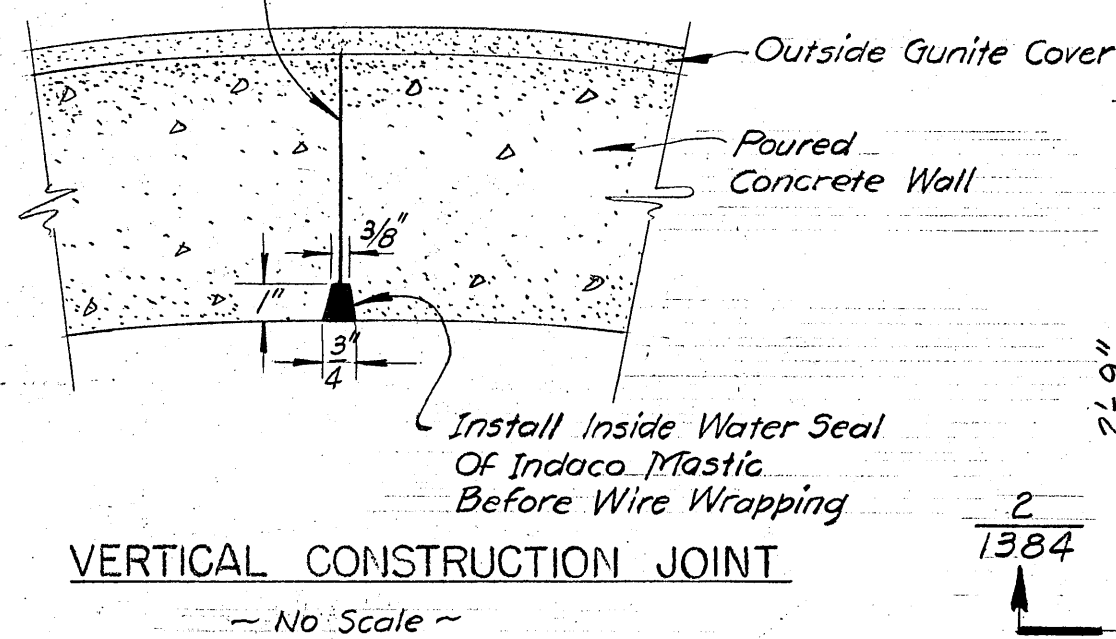


RIGHT SIDE VIEW
Scale In Feet

ANTI-ROTATION GUIDES
~ 3 - Required ~
Scale In Feet

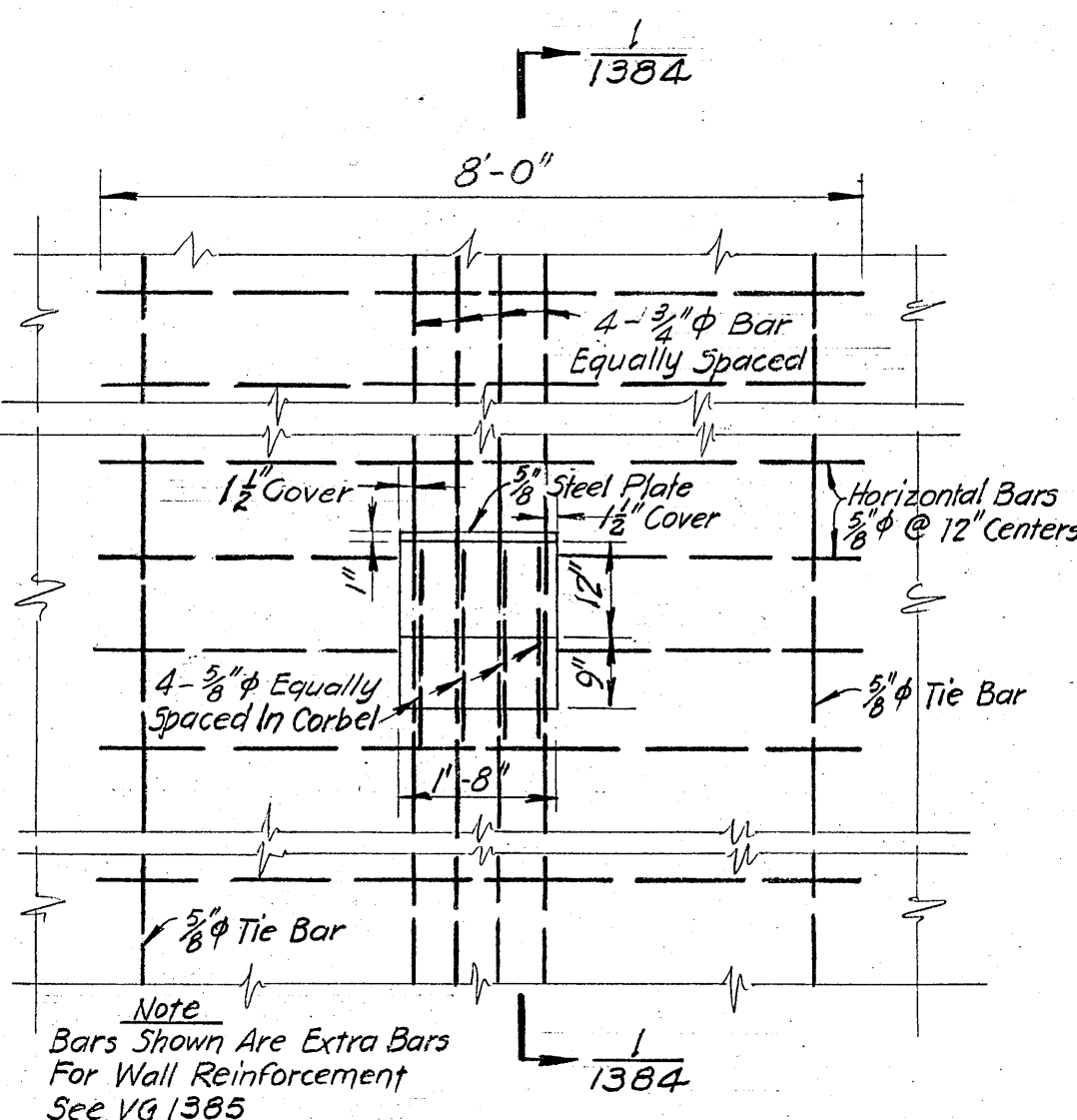
RUBBING PLATES
~ 10 - Required ~
Scale In Feet

Cover End Surface Of Wall Panel
At Vertical Joints With Indaco Mastic
Before Pouring Adjoining Panel



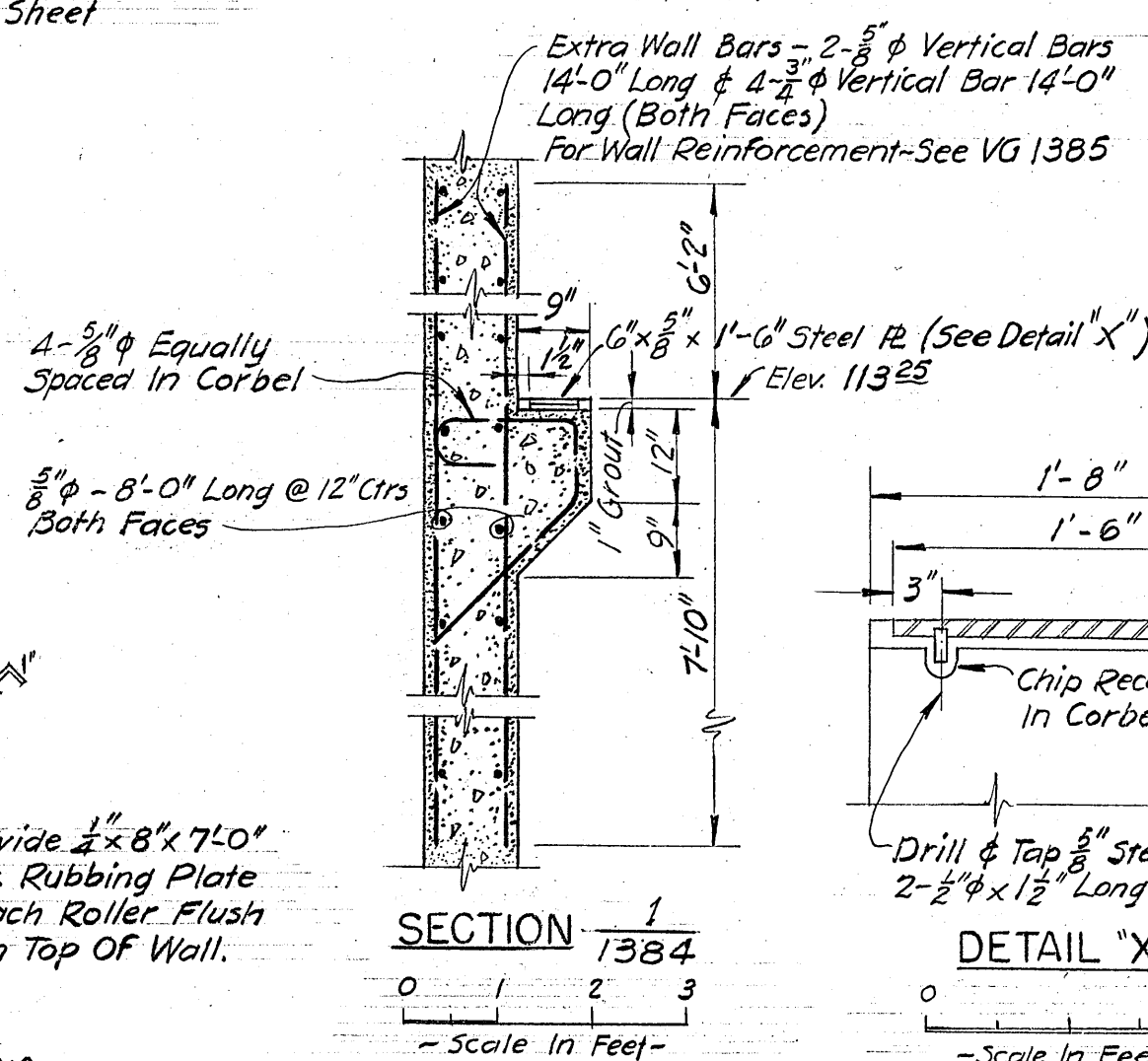
VERTICAL CONSTRUCTION JOINT

~ No Scale ~



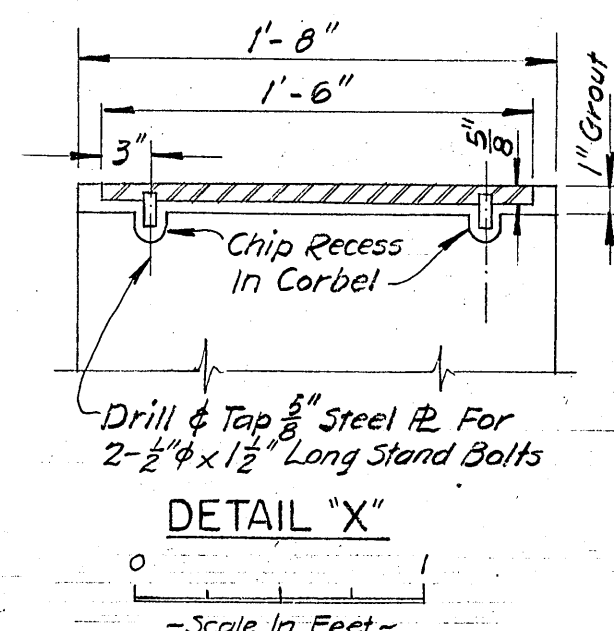
CORBEL DETAIL

Scale In Feet



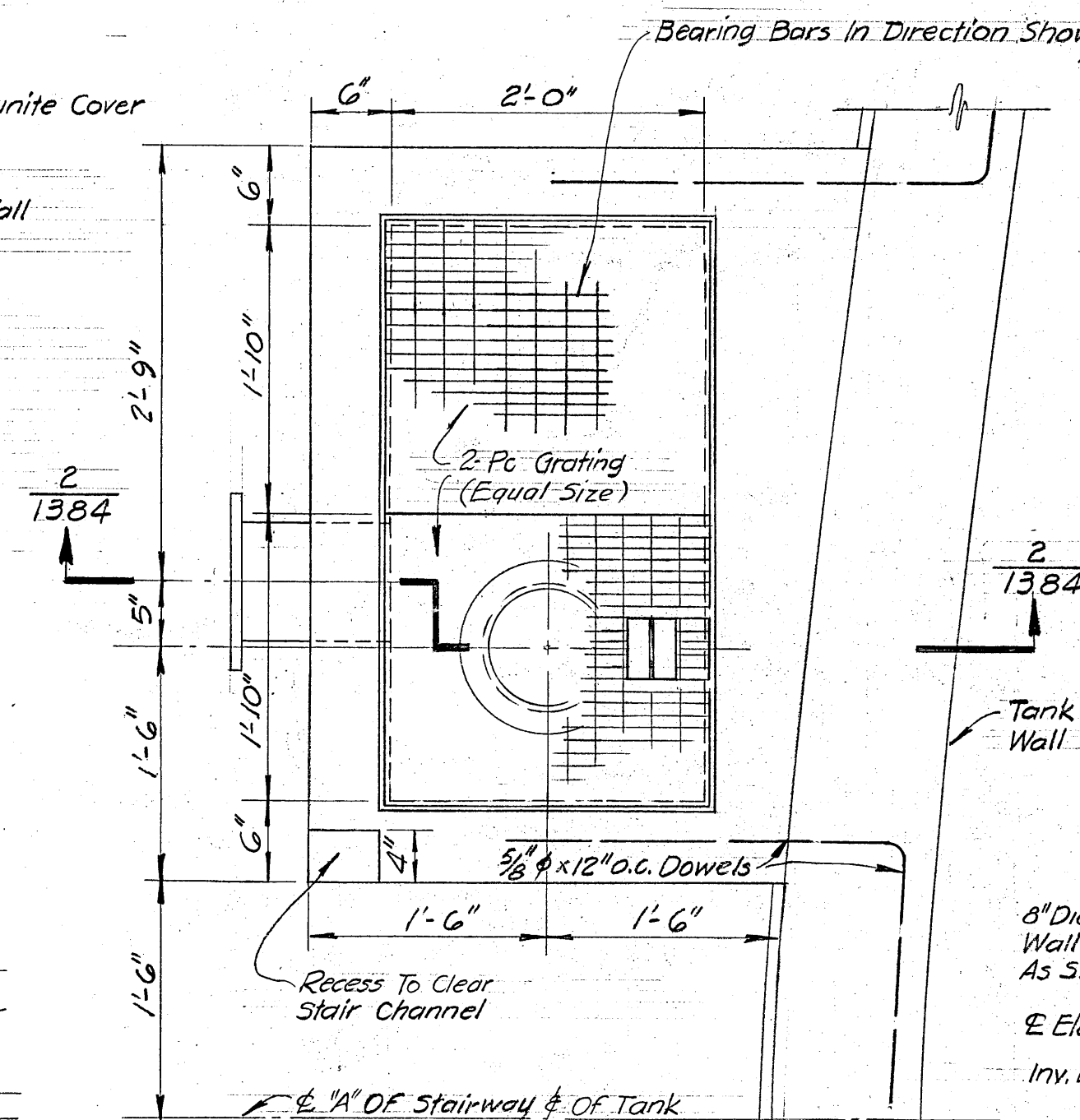
SECTION 1/1384

Scale In Feet



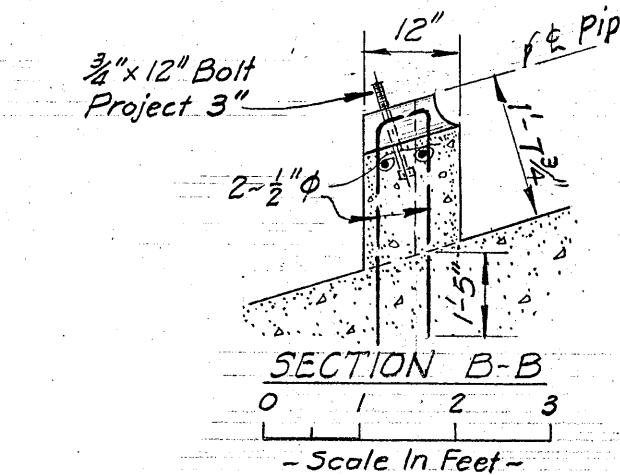
DETAIL 'X'

Scale In Feet



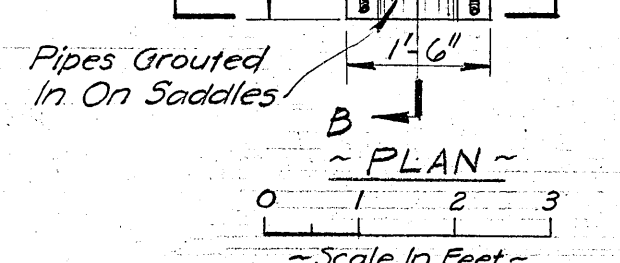
PLAN OF OVERFLOW BOX

Scale In Feet



SECTION B-B

Scale In Feet



PLAN

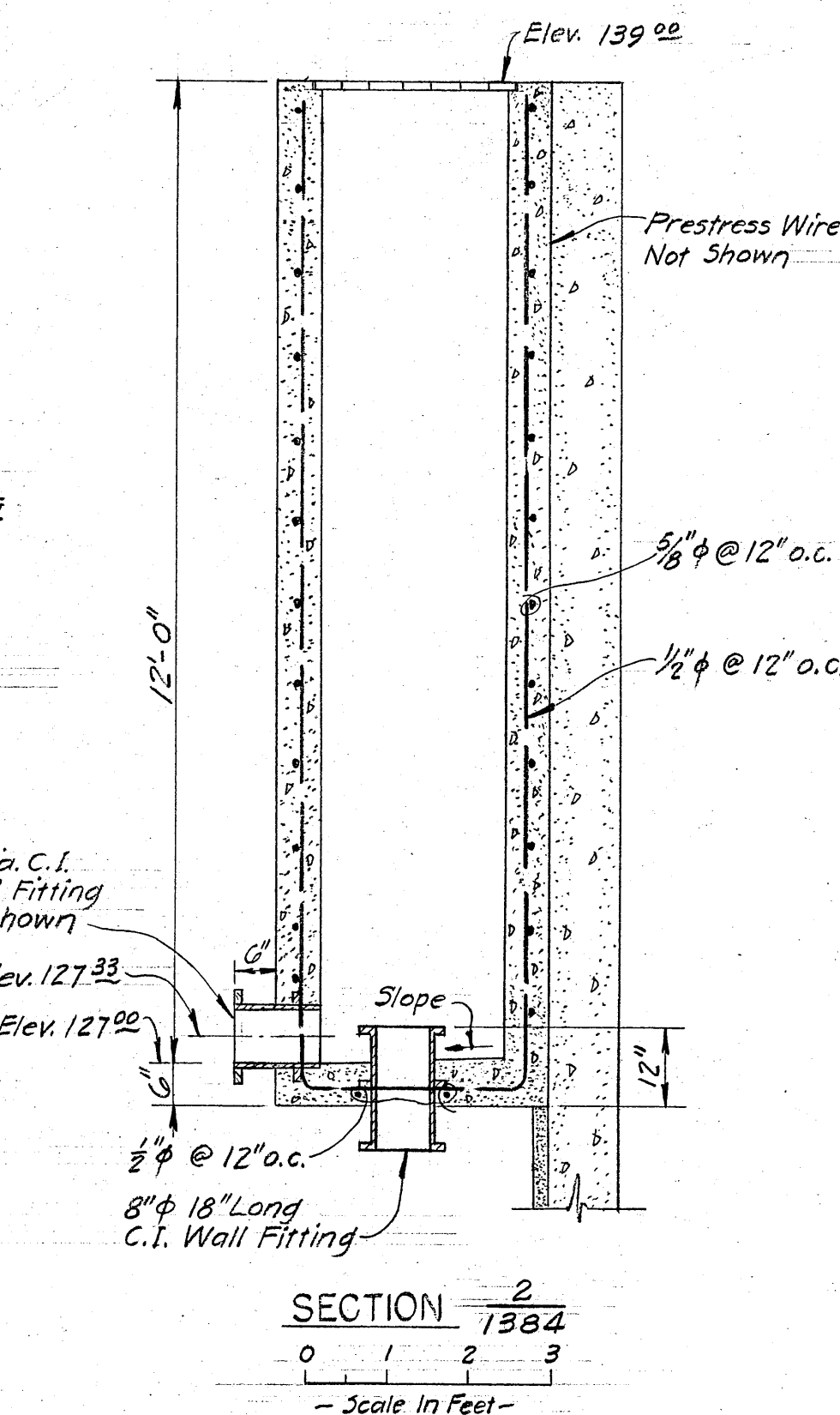
Scale In Feet



SECTION C-C

Scale In Feet

(Note: For 8" C.I. Pipe)



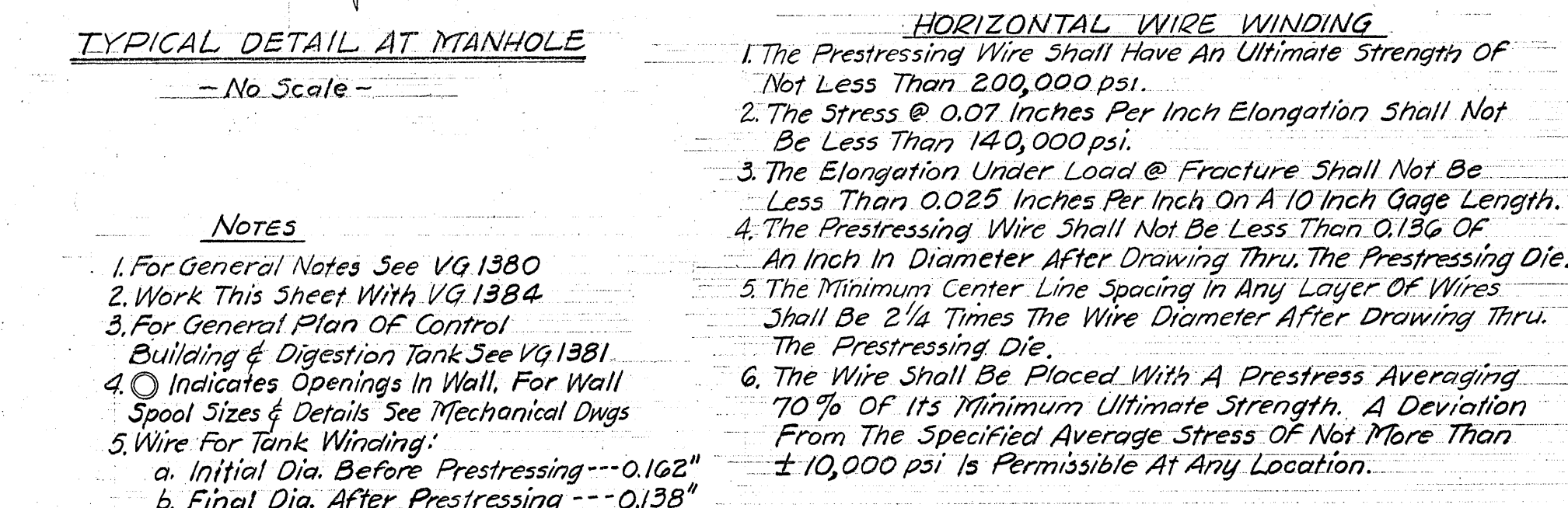
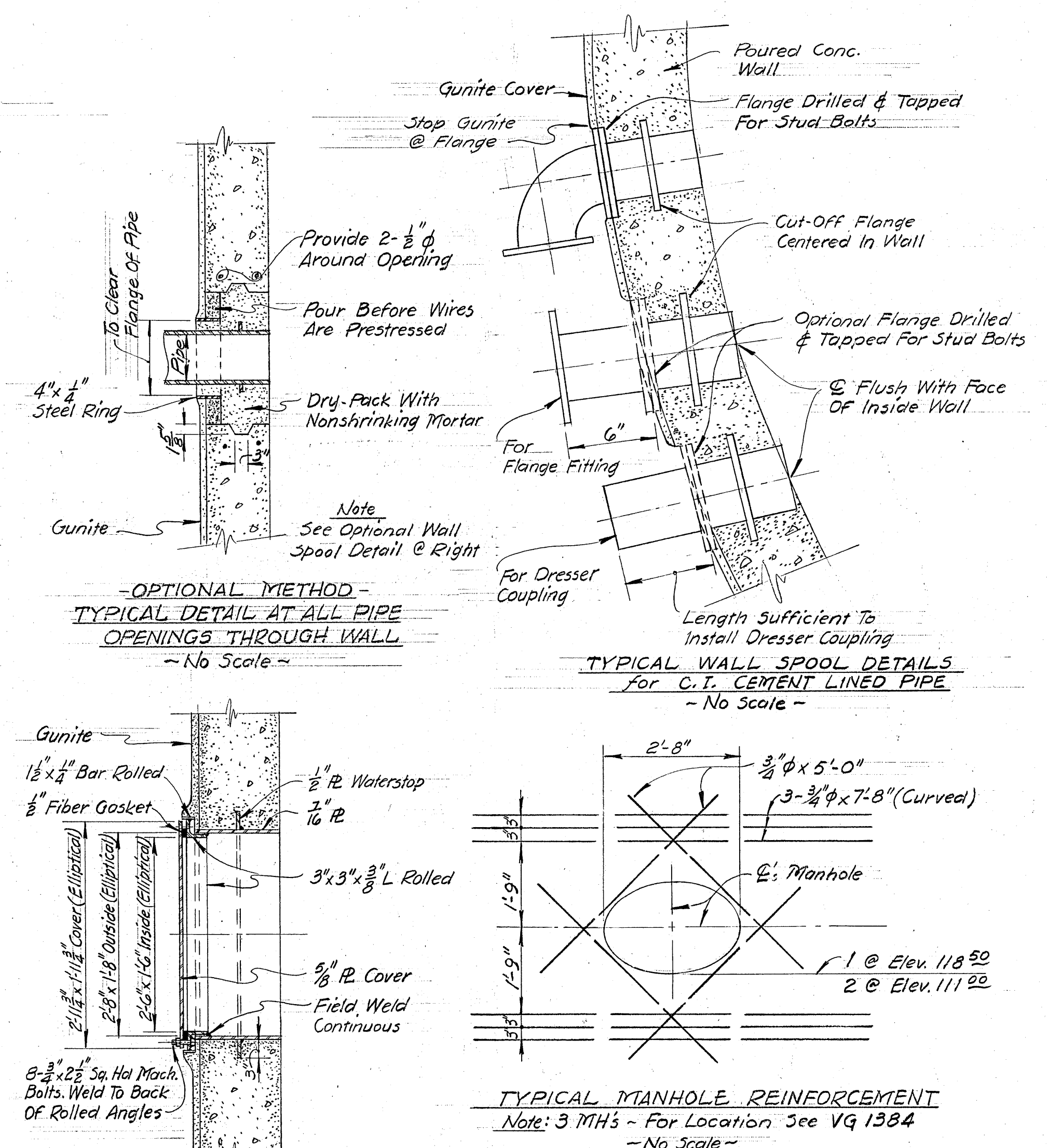
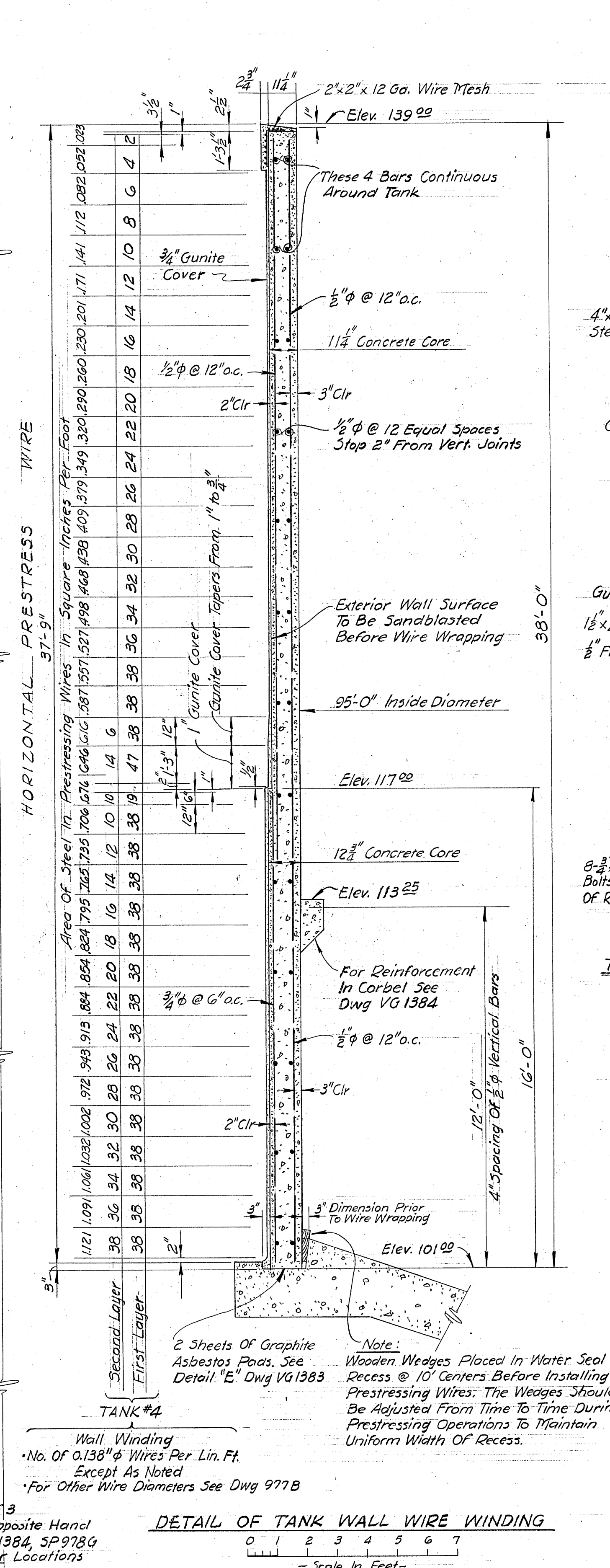
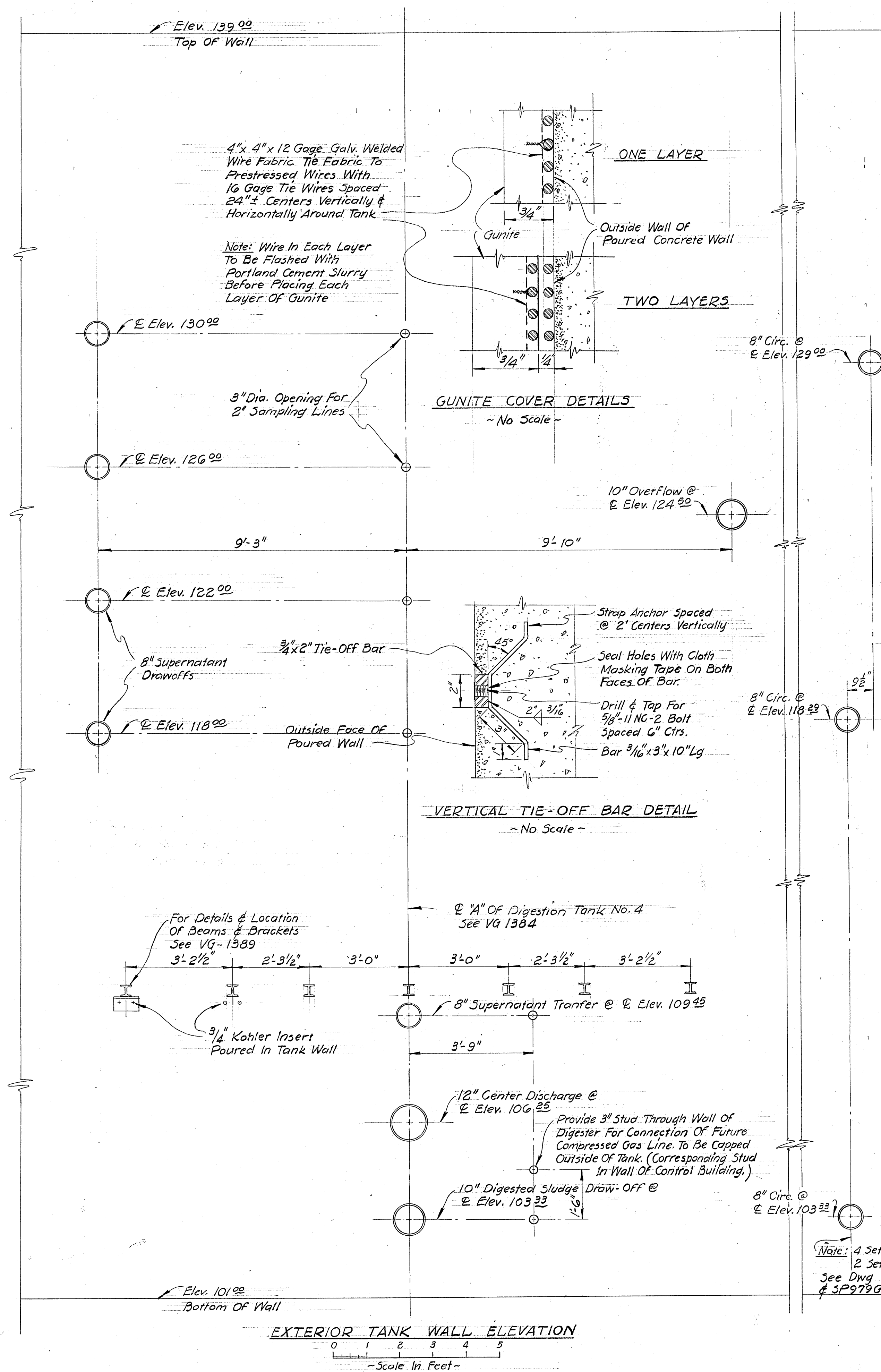
SECTION 2/1384

Scale In Feet

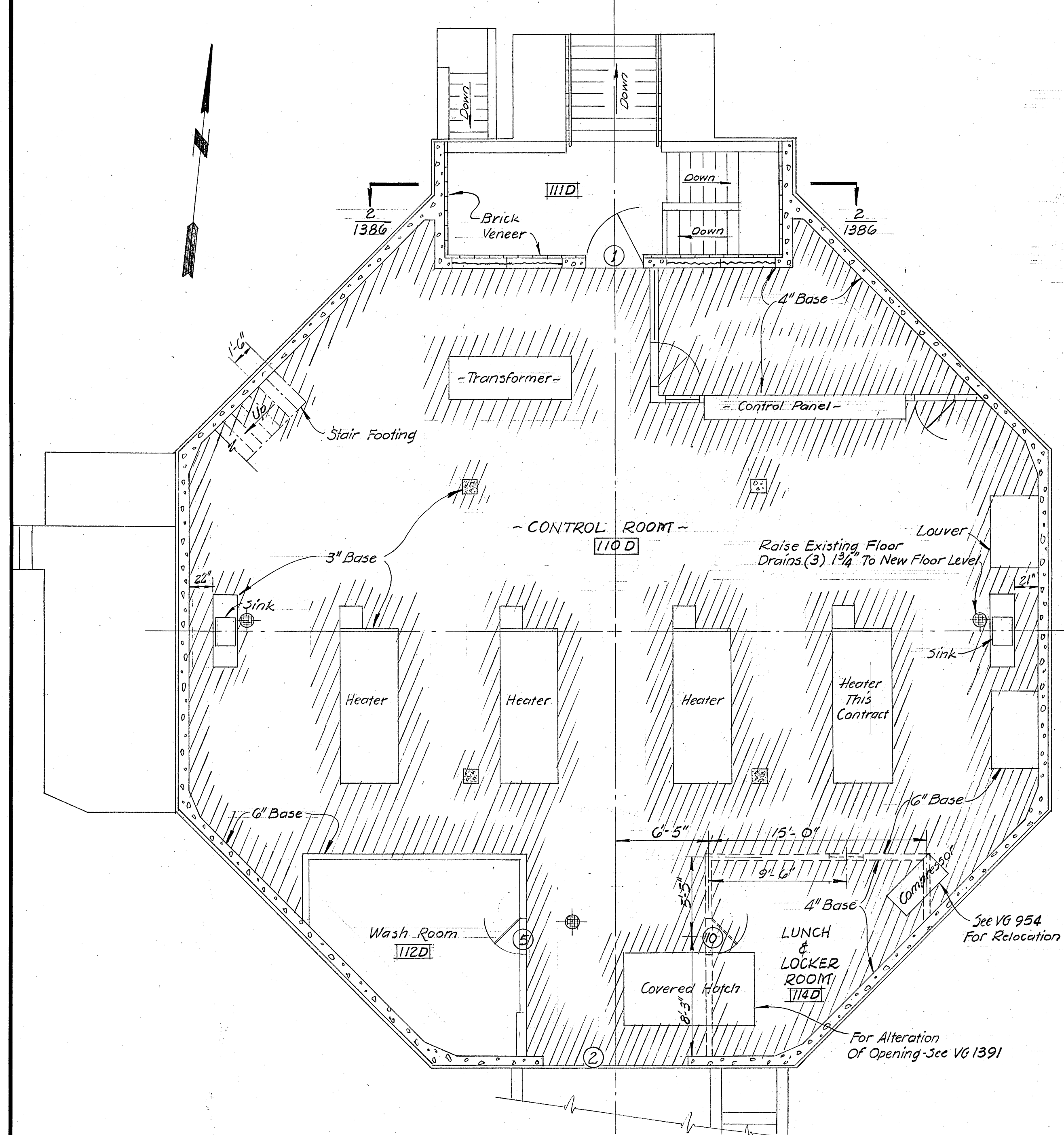
NOTES

1. For General Notes See VG 1380
2. For Tank Elevation & Details See VG 1385
3. For Location Of Pipes See Mechanical Drawings
4. All Pipe Cradles Have 5" Radius Unless Otherwise Noted
5. For General Plan Of Control Building & Digestion Tanks See VG 1381
6. For Tank Base Slab See VG 1383
7. Pipe Supports To Be Poured On Base Slab As Directed By The Engineer
8. For Spacing & Details Of Wire See VG 1385

NO.	DATE	REVISIONS	MADE BY	CHKD BY
EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT No. 1 OAKLAND, CALIFORNIA				
SLUDGE DIGESTION TANK NO. 4 ~STRUCTURAL~ TANK PLAN & DETAILS				
DESIGNED BY <i>RBR, HRP, JDF</i>		DRAWN BY <i>RUG, RBB</i>	TRACED BY <i>Y. Wong</i>	
CHECKED BY <i>S. KORETSKY, JDF</i>		DATE <i>10-10-50</i>	SCALE <i>As Shown</i>	
RECOMMENDED BY <i>J. P. [Signature]</i>		APPROVED BY <i>[Signature]</i>		
		No. <i>VG 1384</i>		



- CONCRETE - TANK WALL
- Concrete To Have 4,500 psi Compressive Strength In 28 Days
 - Concrete, At Time Of Prestressing, To Have 4,000 psi Compressive Strength.
 - Pour Alternate Panels Consecutively.
 - For Vertical Joints See VG 1384.

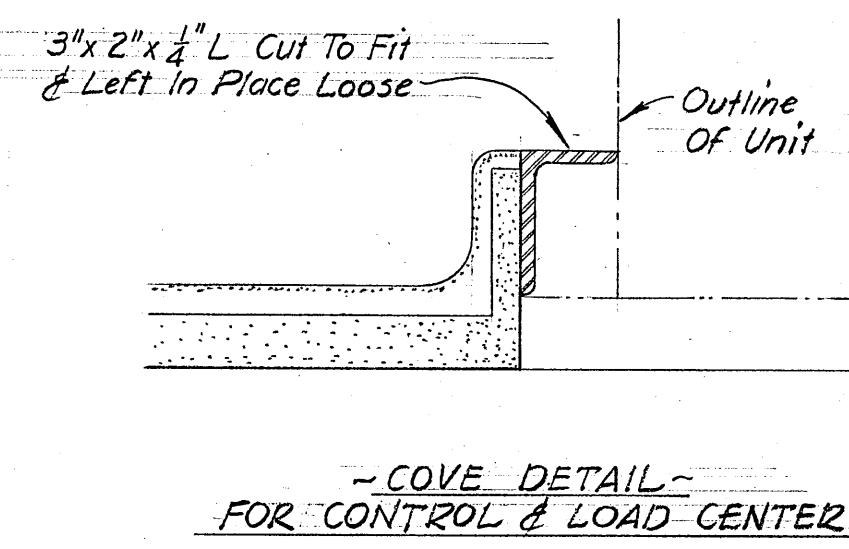
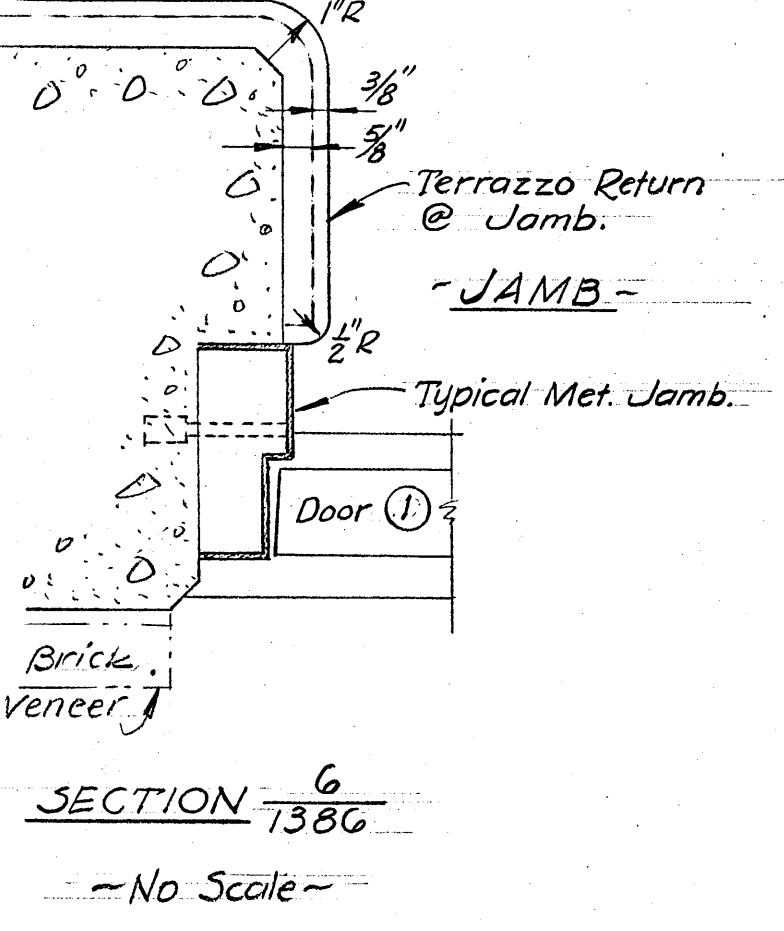
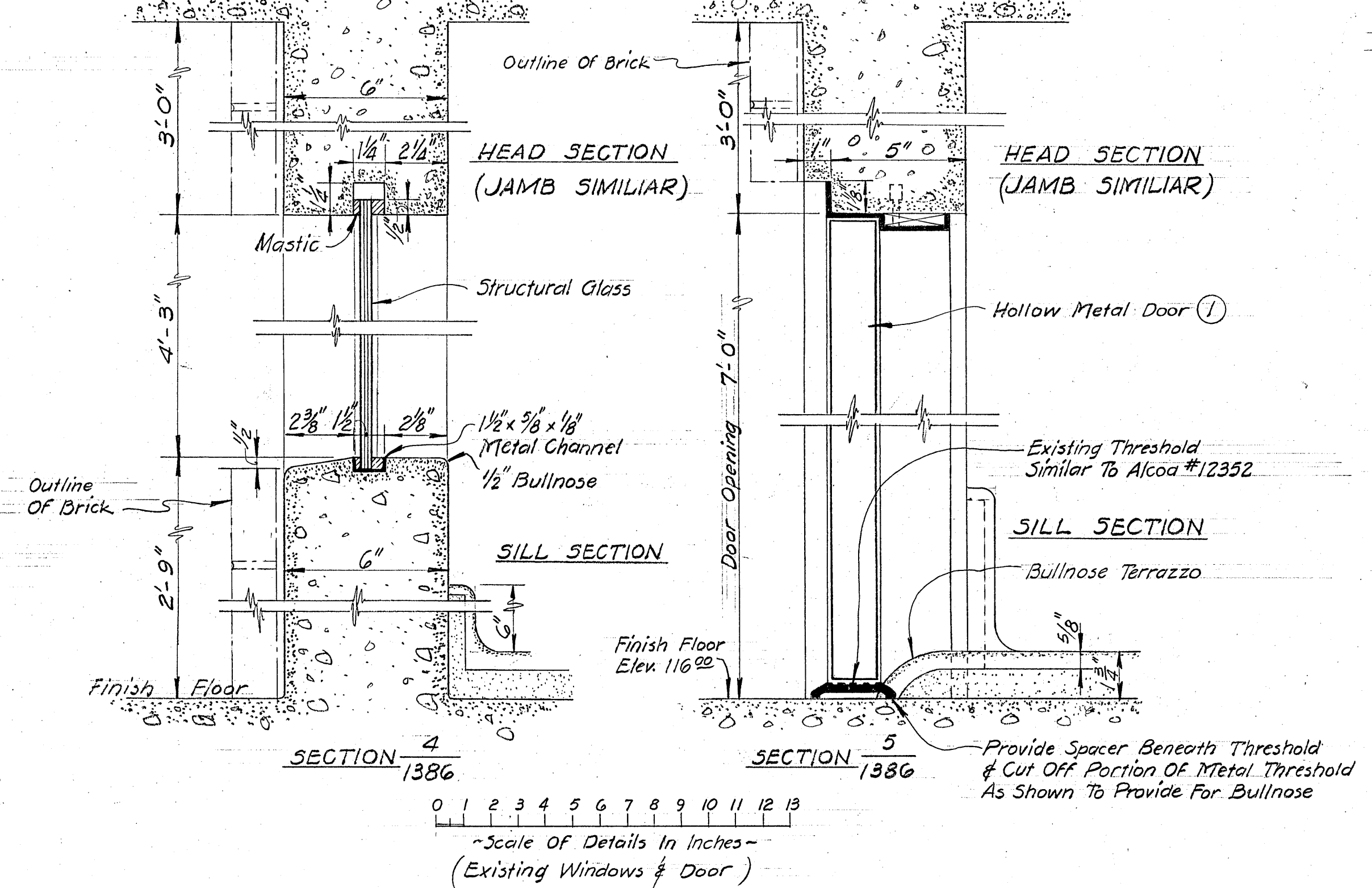
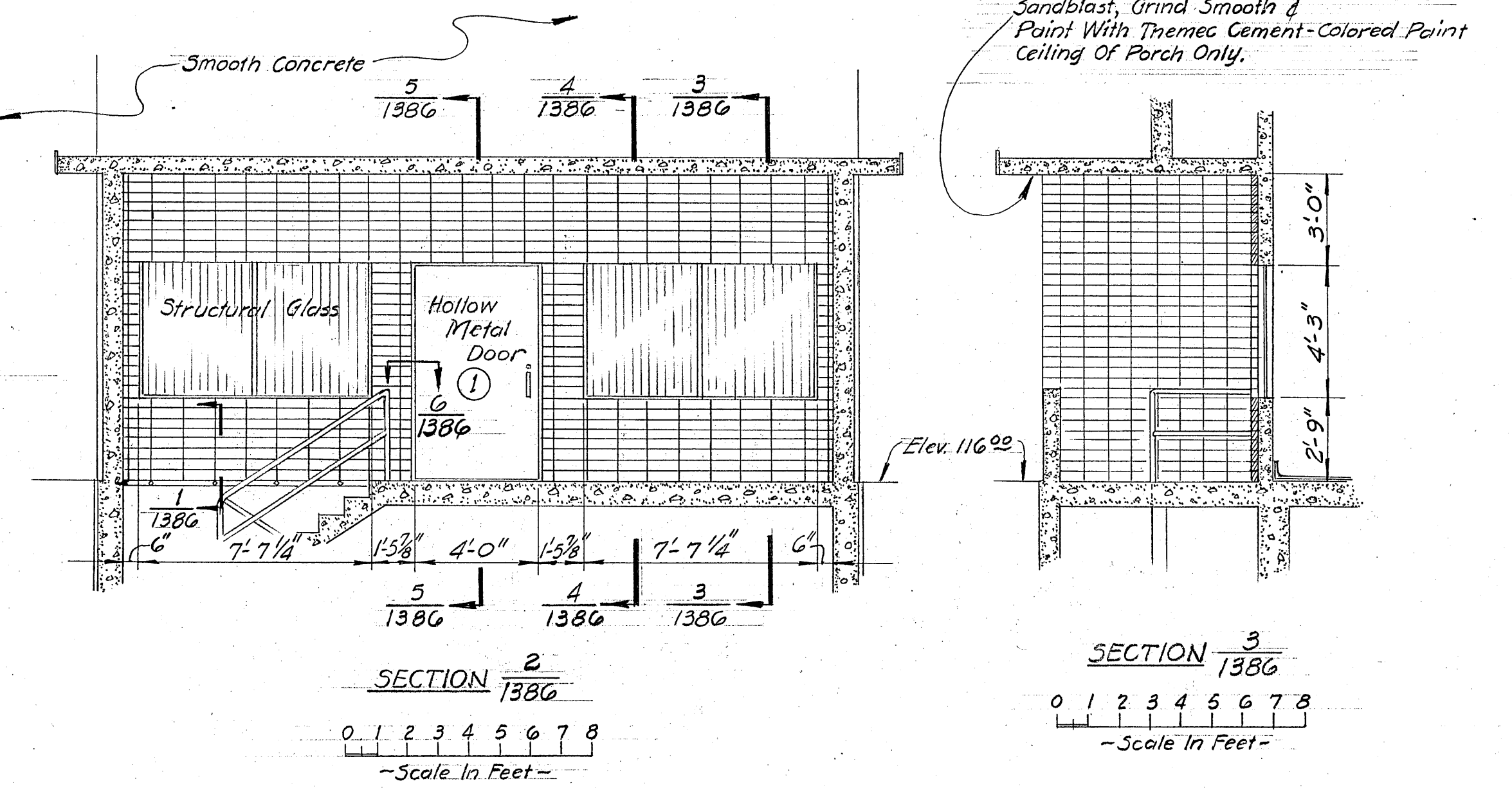


1 1/2" x 3 3/8" x 1 1/2" Face Brick Veneer With 1/2" Mortar Joints

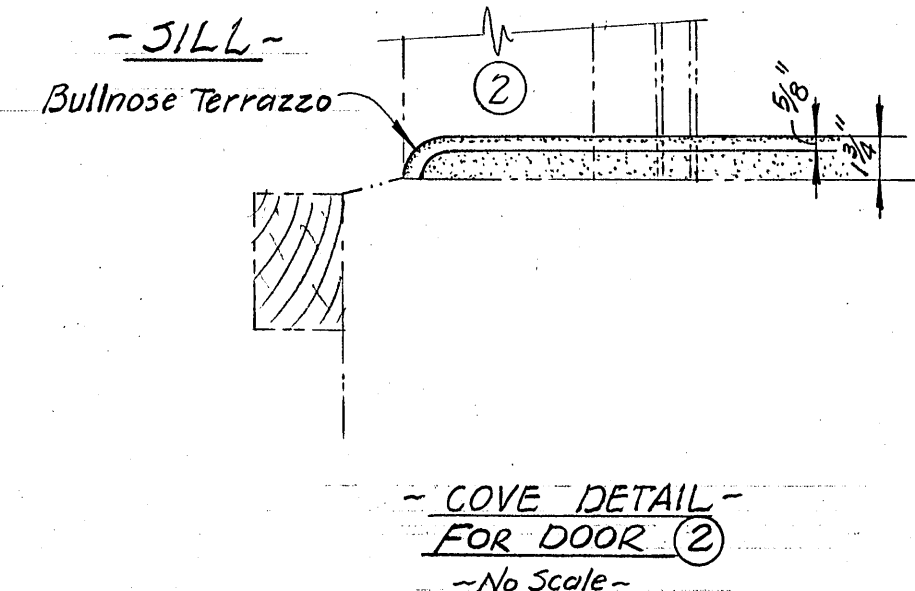
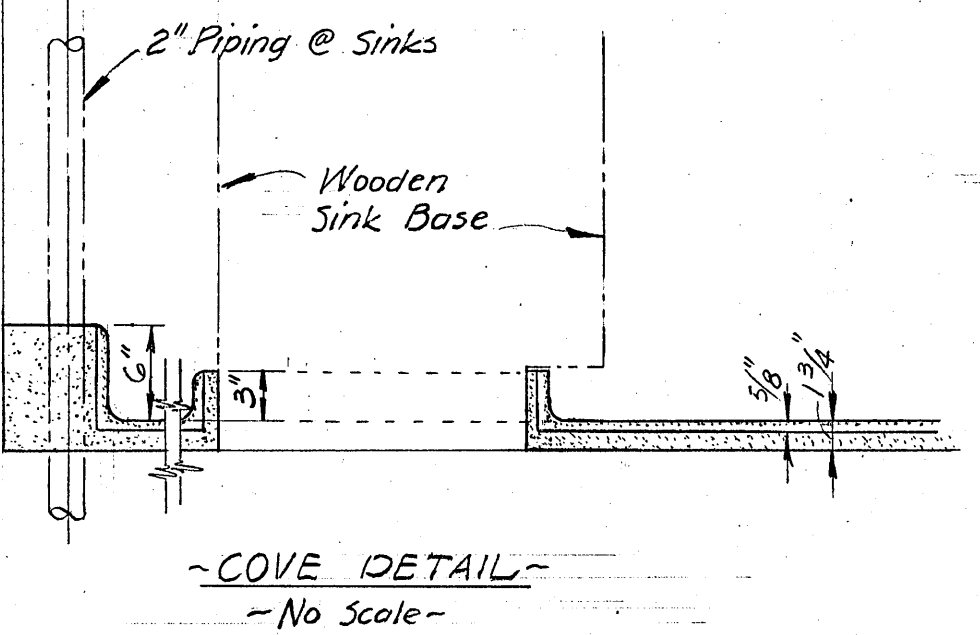
Provide 16 Ga. Corrugated Anchors To Existing Wall. Galv. After Cutting. Install In Each 3rd Course @ 2'-0" Centers

2" x 2" x 1/4" Galv. Shelf Angle With 3/8" x 3 Unit Galv. Clinch Anchors @ 24" o.c.

SECTION 1
1386
Scale In Feet

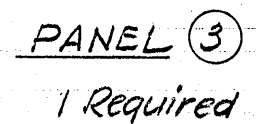
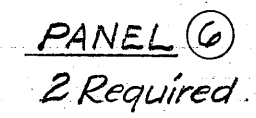
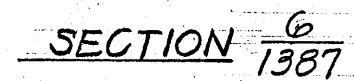
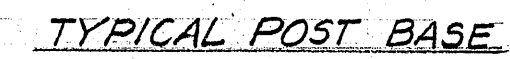
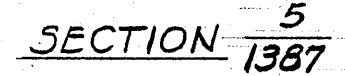
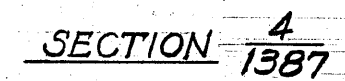
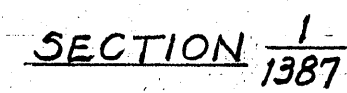
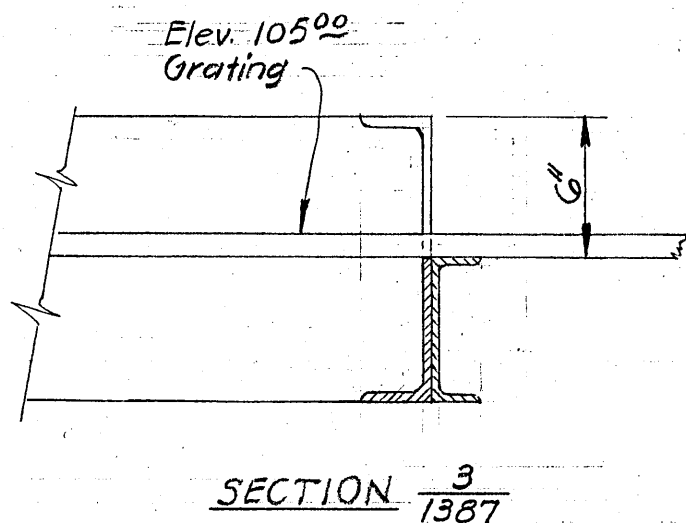


PLAN AT ELEV. 116.00
Scale In Feet
Note: Hatching On Main Floor (Rm 110D Only) Indicates Area To Receive Terrazzo After Preparing Existing Concrete Floor.



VG-1391 Hatch Alterations & Lunchroom Details
VG-954 Digestion Control Bldg. Washroom Details
VG-961 Elevations & Entrance Details
VG-960 Floor & Roof Plans
REFERENCE DRAWINGS

NO.	DATE	REVISIONS	MADE BY	CHKD. BY	
EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT No. 1 OAKLAND, CALIFORNIA					
DIGESTION CONTROL BUILDING -STRUCTURAL- ALTERATIONS TO ENTRANCE AND MAIN FLOOR					
DESIGNED BY	KK & JDF	DRAWN BY	K.K.	TRACED BY	J.W.
CHECKED BY	SK & JDF	DATE	2-19-57	SCALE	As Shown
RECOMMENDED BY	J.P. Bantz	APPROVED BY	J.P. Bantz	NO.	VG 1386

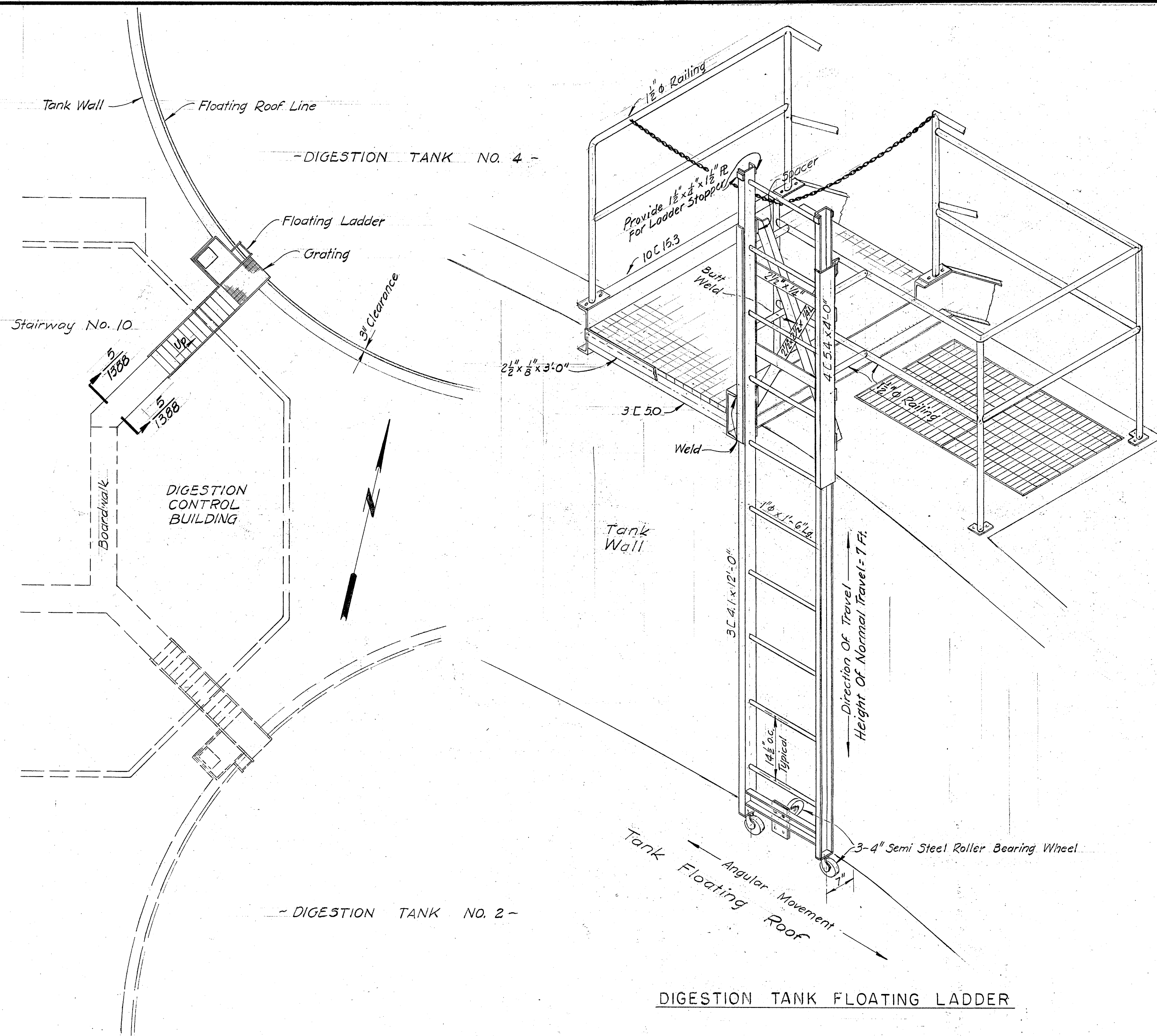


STEP TREAD DETAILS

~ No Scale ~

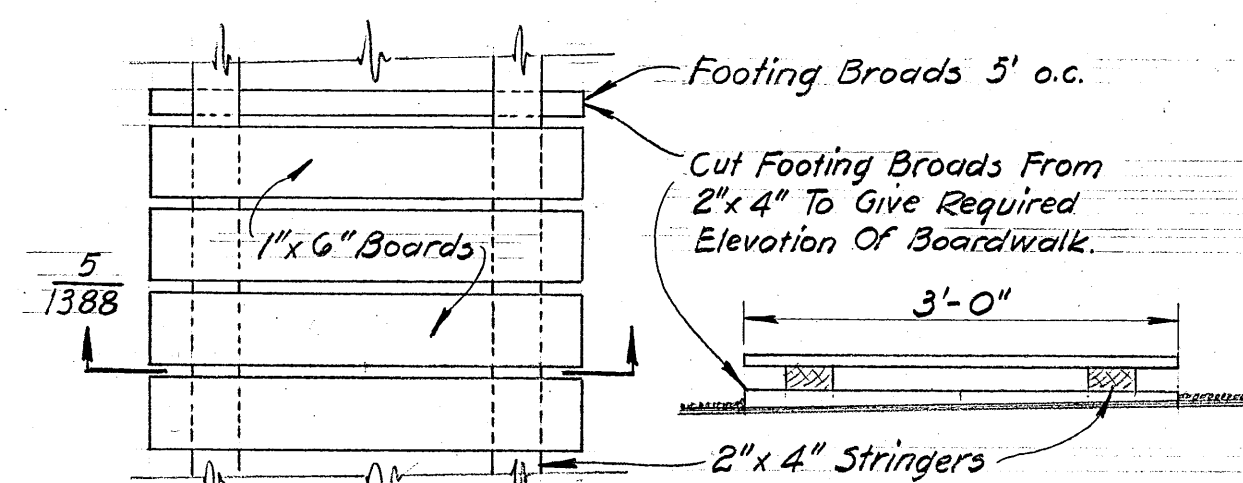
- SP787G Tread Schedule
SP754G Grating Details
VG975 Grating Supports
REFERENCE DRAWINGS

NO.	DATE	REVISIONS	MADE BY	CHKD. BY
EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT No. 1 OAKLAND, CALIFORNIA				
DIGESTION CONTROL BUILDING -STRUCTURAL & MECHANICAL- <u>GRATING SUPPORTS & DETAILS</u>				
DESIGNED BY PAUL E. MCCOLLUM		DRAWN BY M.C.		TRACED BY <i>Y. Wong</i>
CHECKED BY C. F. GIULIANO, JDF		DATE 3-23-86		SCALE As Shown
RECOMMENDED BY <i>J. P. Smith</i> APPROVED BY <i>H. Friedman</i>		No. VG 1387		



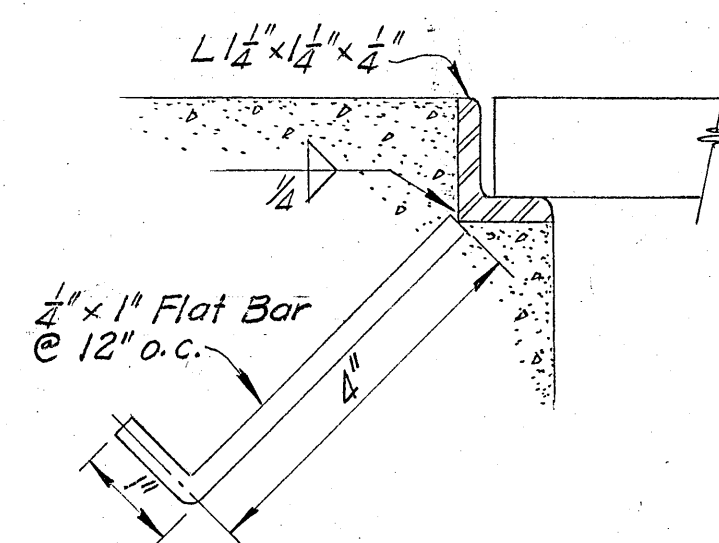
LADDERS, STAIRWAY, & GUARDRAIL LOCATION PLAN

0 4 8 12 16 20 24
~ Scale In Feet ~



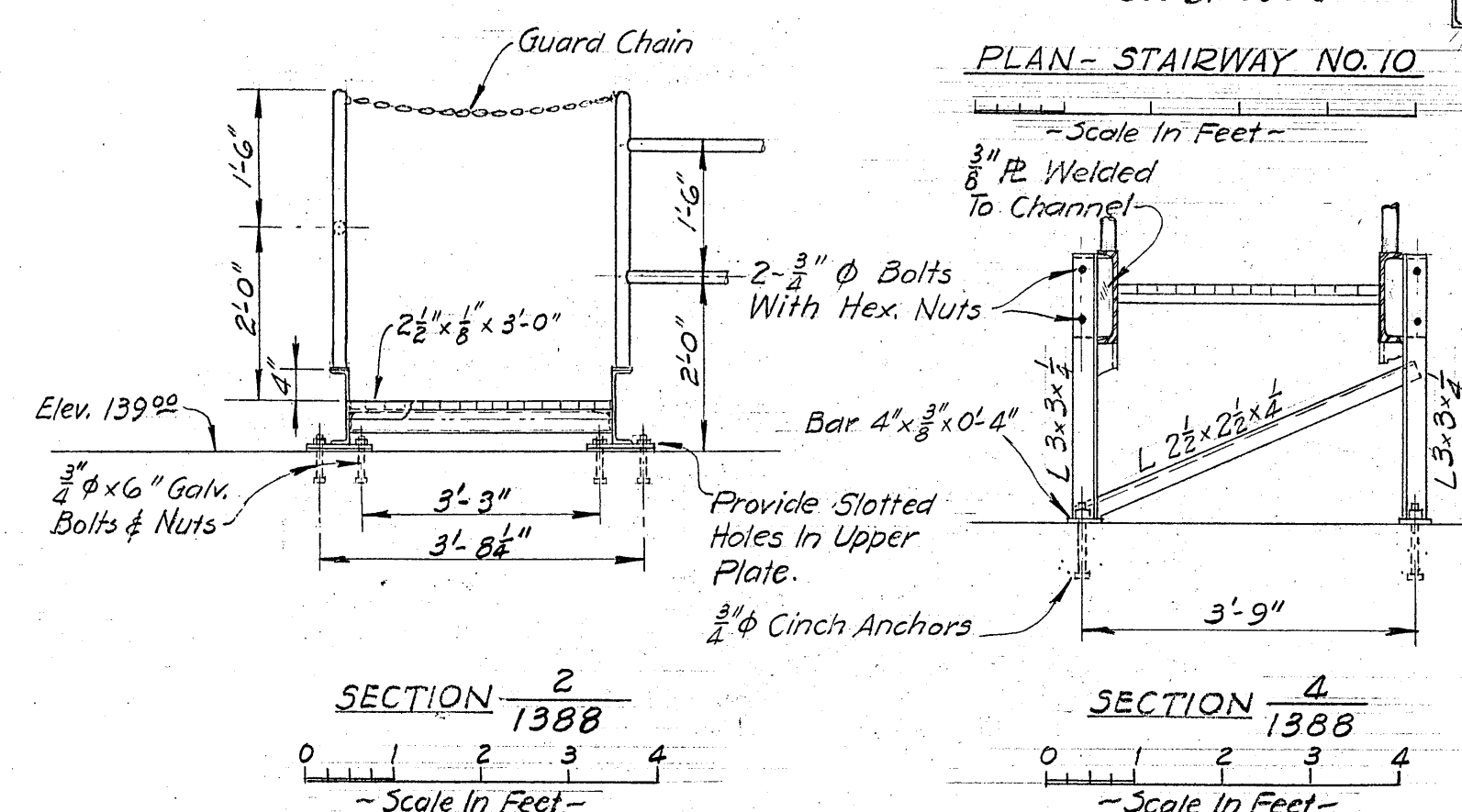
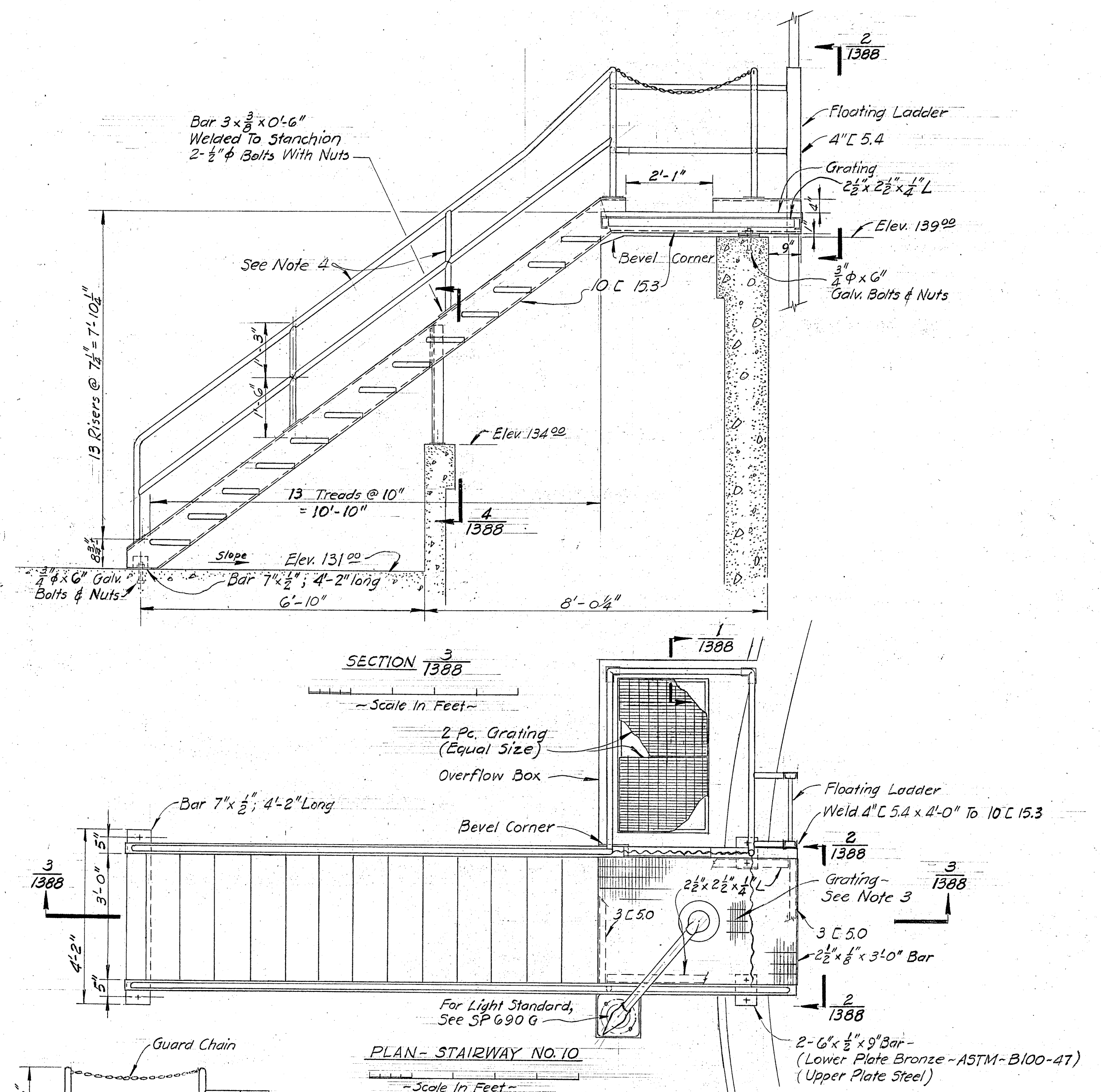
~ PLAN ~ SECTION 5
1388

0 1 2 3 4
~ Scale In Feet ~



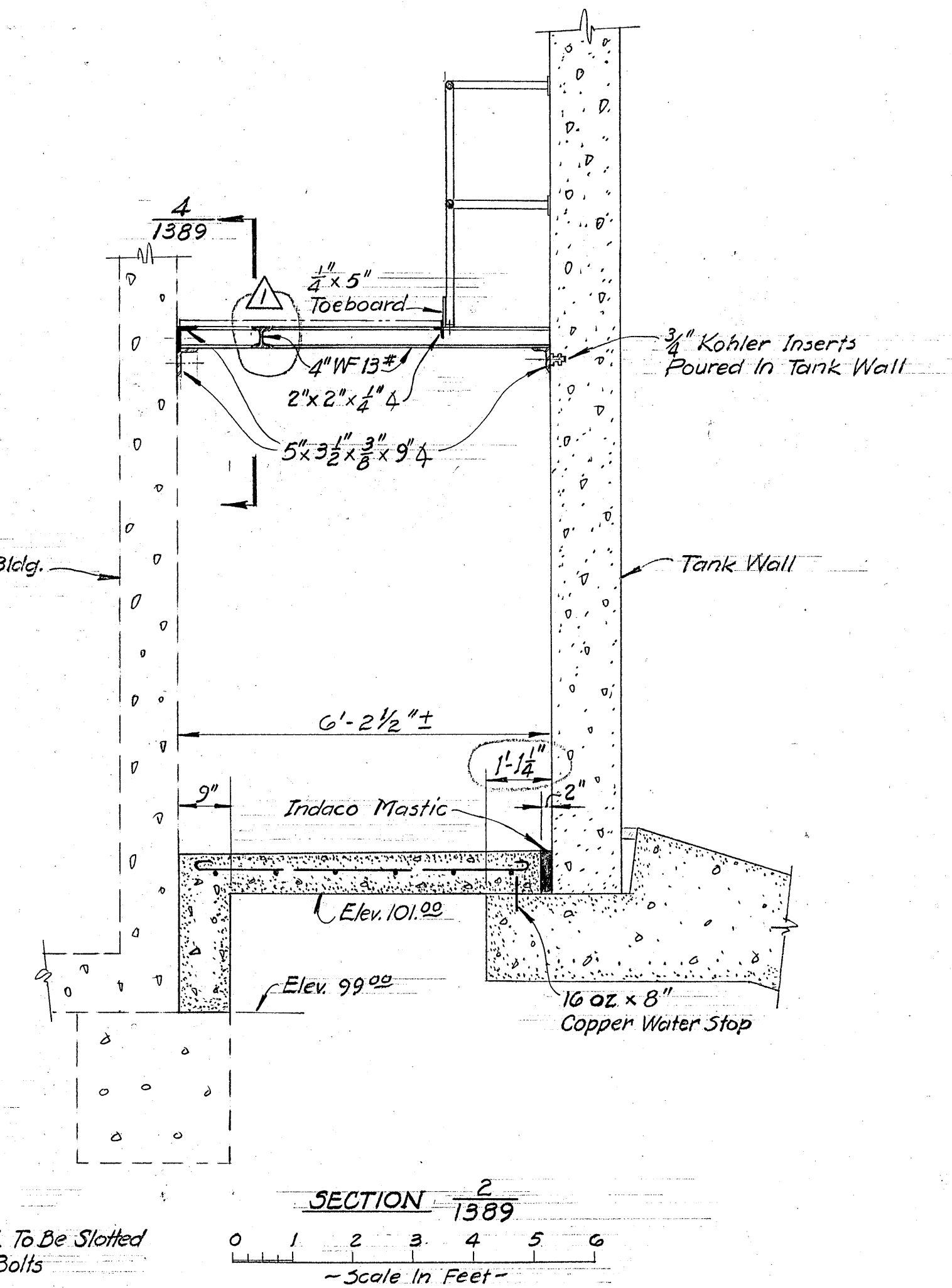
SECTION 1
1388

~ No Scale ~



- ~ Notes ~
1. For General Notes See VG 951
 2. For Handrails & Typical Tread Details See VG 1380
 3. All Fabrication of Handrailing And Grating To Be Performed By The Contractor
 4. All Railing Joints To Be Bevel Welded & Ground Smooth
 5. All Painting To Be Done According To Specification After Erection And/or Instructions From The Engineer
 6. For Grating Details, See Dwg. SP 985 G

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Technical drawing of a bridge section showing a 4" WF 13# beam, 2x3" unit cinch anchors, and 5/8" x 3/8" x 9/4" plates. The drawing includes dimensions for the beam, anchors, and plates, and a scale bar in feet.

Labels and dimensions:

- 5" Pipe Trench
- 3'-0"
- Top of Grating Elev. 110.50
- 1/4" x 1" Bar Divider Tack Weld To Beam
- 4" WF 13#
- Holes of 4 To Be Slotted For 3/4" ϕ Bolts
- 2-3/4" ϕ x 3 Unit Cinch Anchors
- 5x3 1/2" x 3/8" x 9/4"
- 2 1/2" x 2 1/2"
- 9"
- 5"
- SECTION 1389
- 0 1 2
- Scale In Feet -

- ~ Notes ~
1. For General Notes See VG 1380.
 2. For Grating See SP 984G
 3. For Digestion Tank No. 4 Wall See VG 1385.

	1-9-58	Raised Cross Beam	Y.W.	107
NO.	DATE	REVISIONS	MADE BY	CHKD. BY

EAST BAY MUNICIPAL UTILITY DISTRICT

SPECIAL DISTRICT No. 1

OAKLAND, CALIFORNIA

SLUDGE DIGESTION TANK NO. 4

~STRUCTURAL~

PIPE TRENCH PLAN & DETAILS

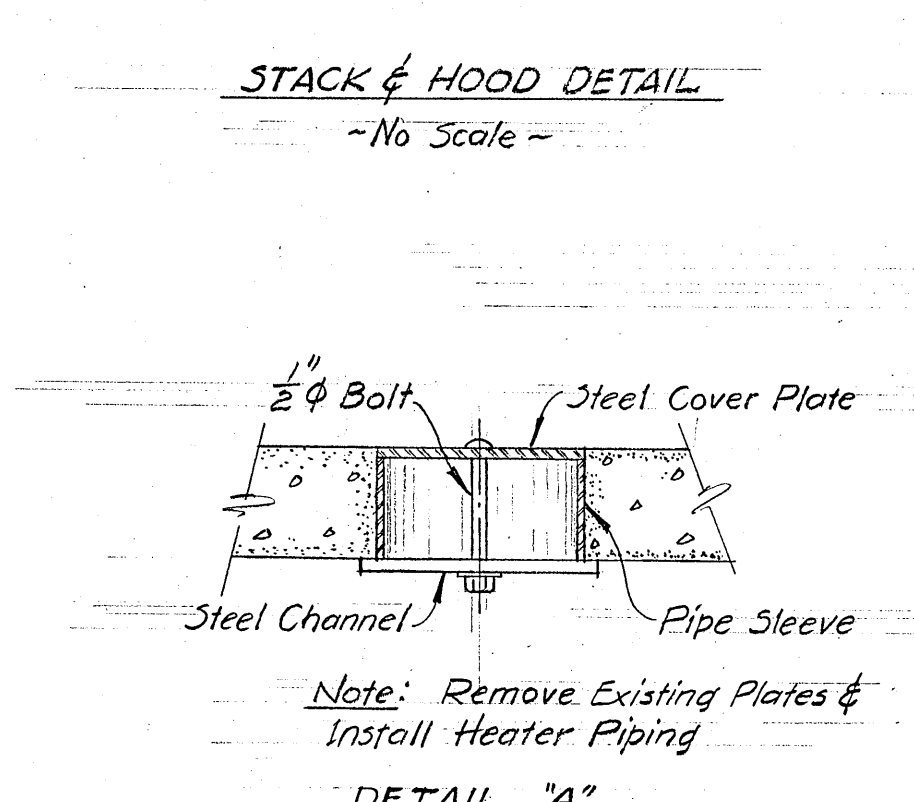
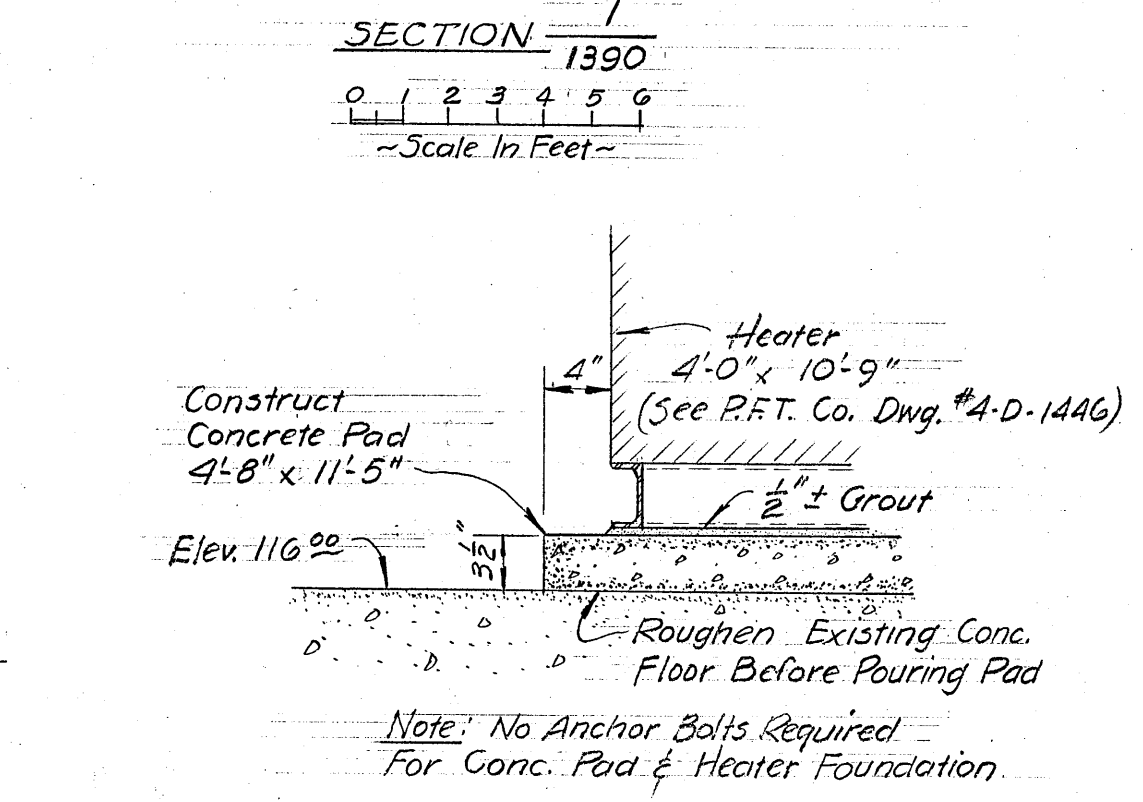
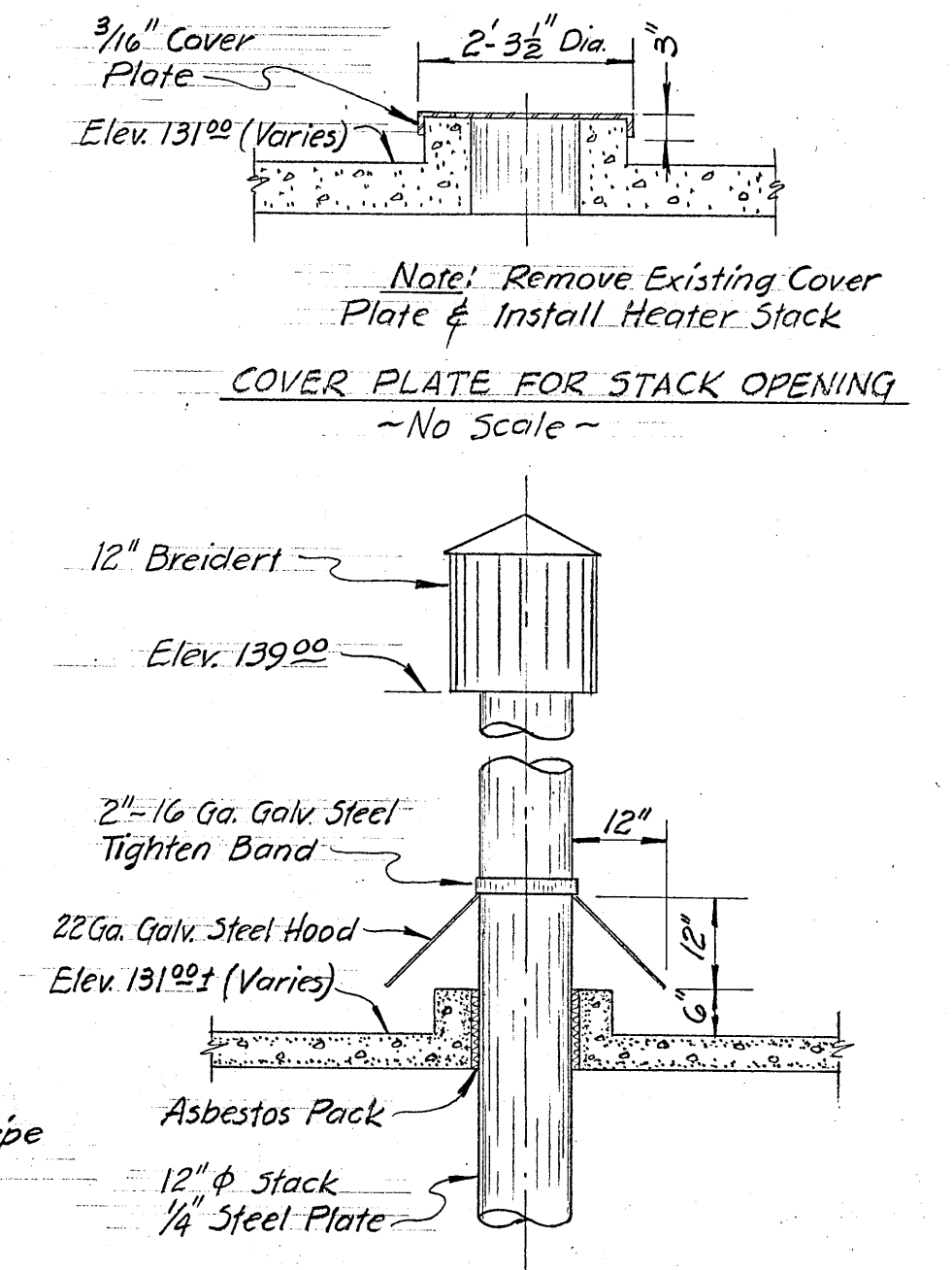
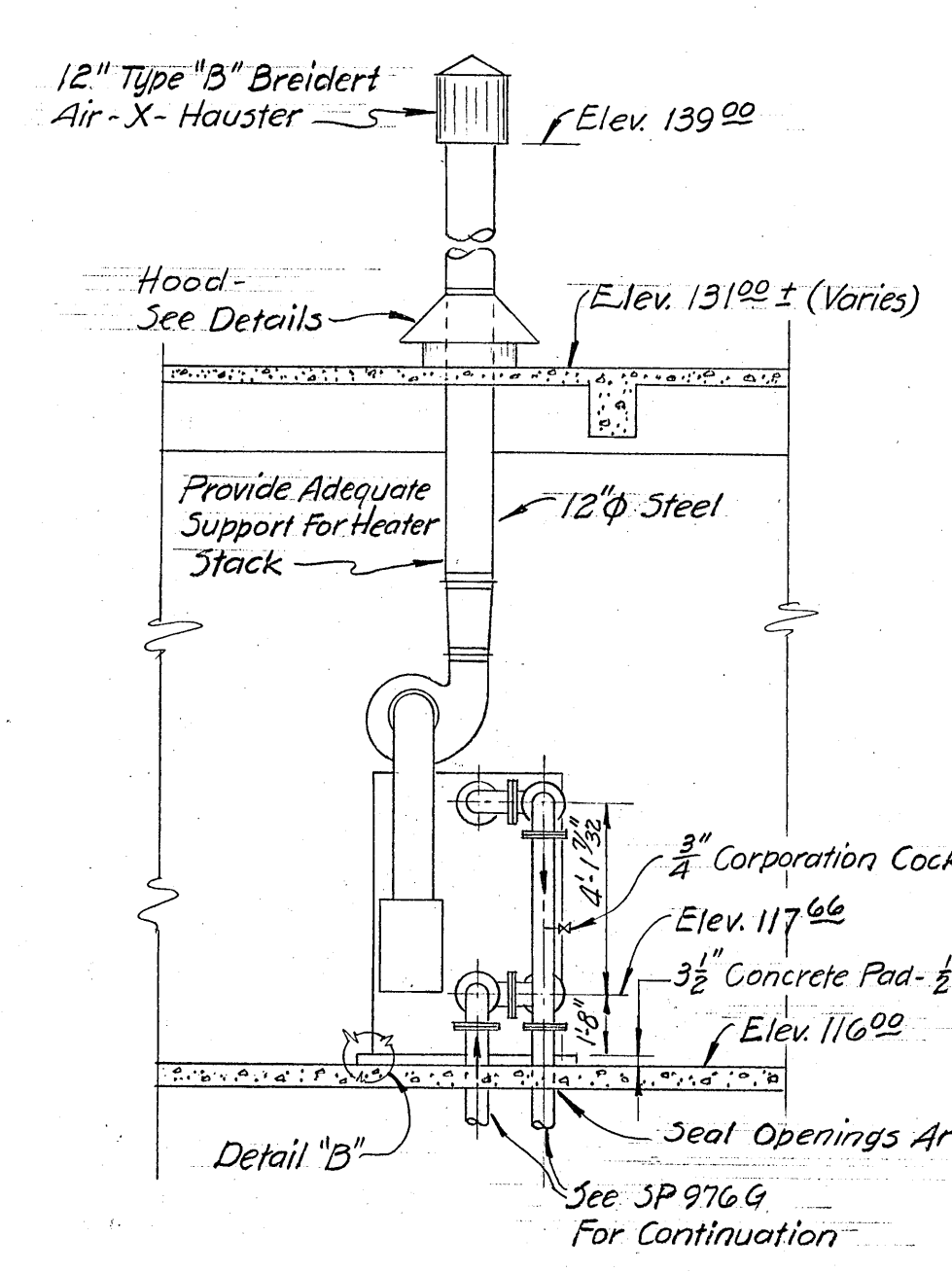
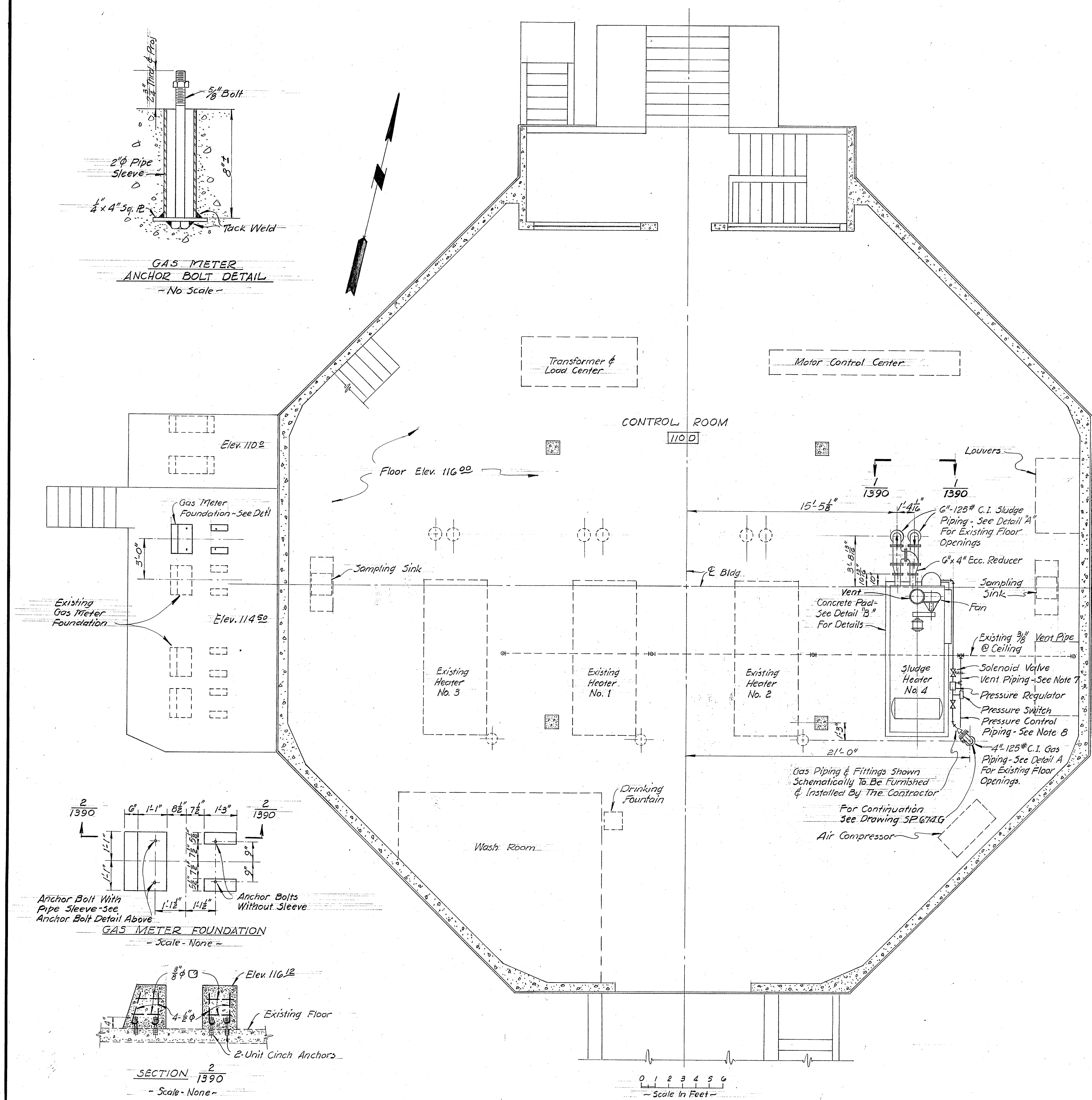
5P984G Pipe Trench Grating

VG 97G Miscellaneous Details

-REFERENCE DRAWINGS-

DESIGNED BY CFB, JDF	DRAWN BY RM	TRACED BY YW
CHECKED BY SK, JDF	DATE 3-5-57	SCALE As shown
RECOMMENDED BY <i>J. D. [Signature]</i>		
APPROVED BY <i>[Signature]</i>		

No. **VG 1389**

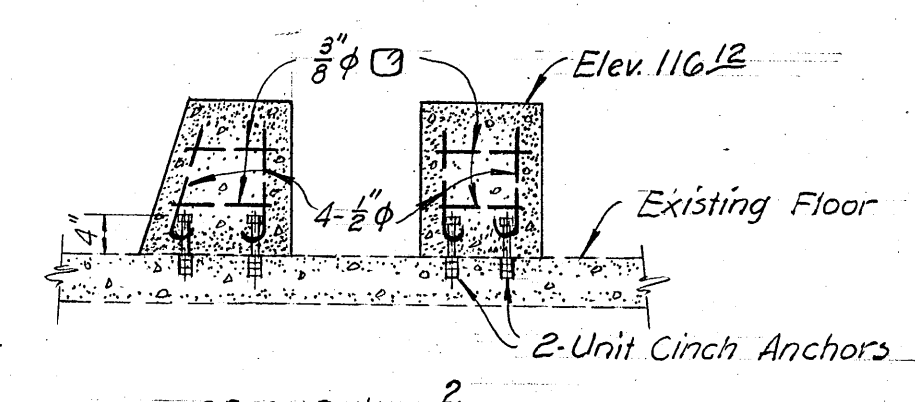
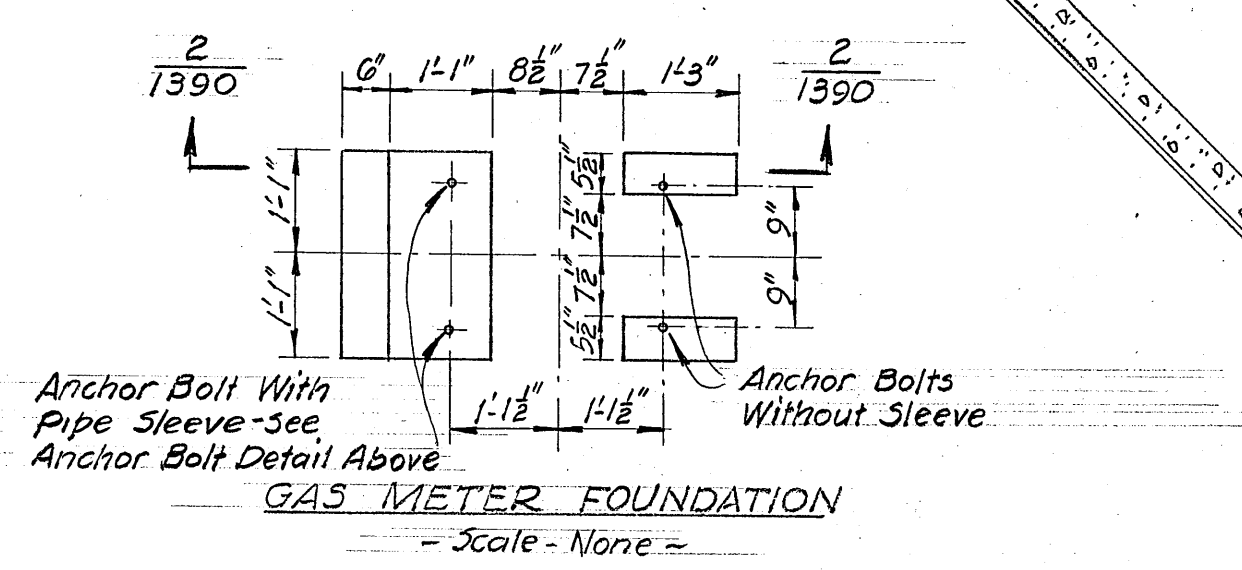


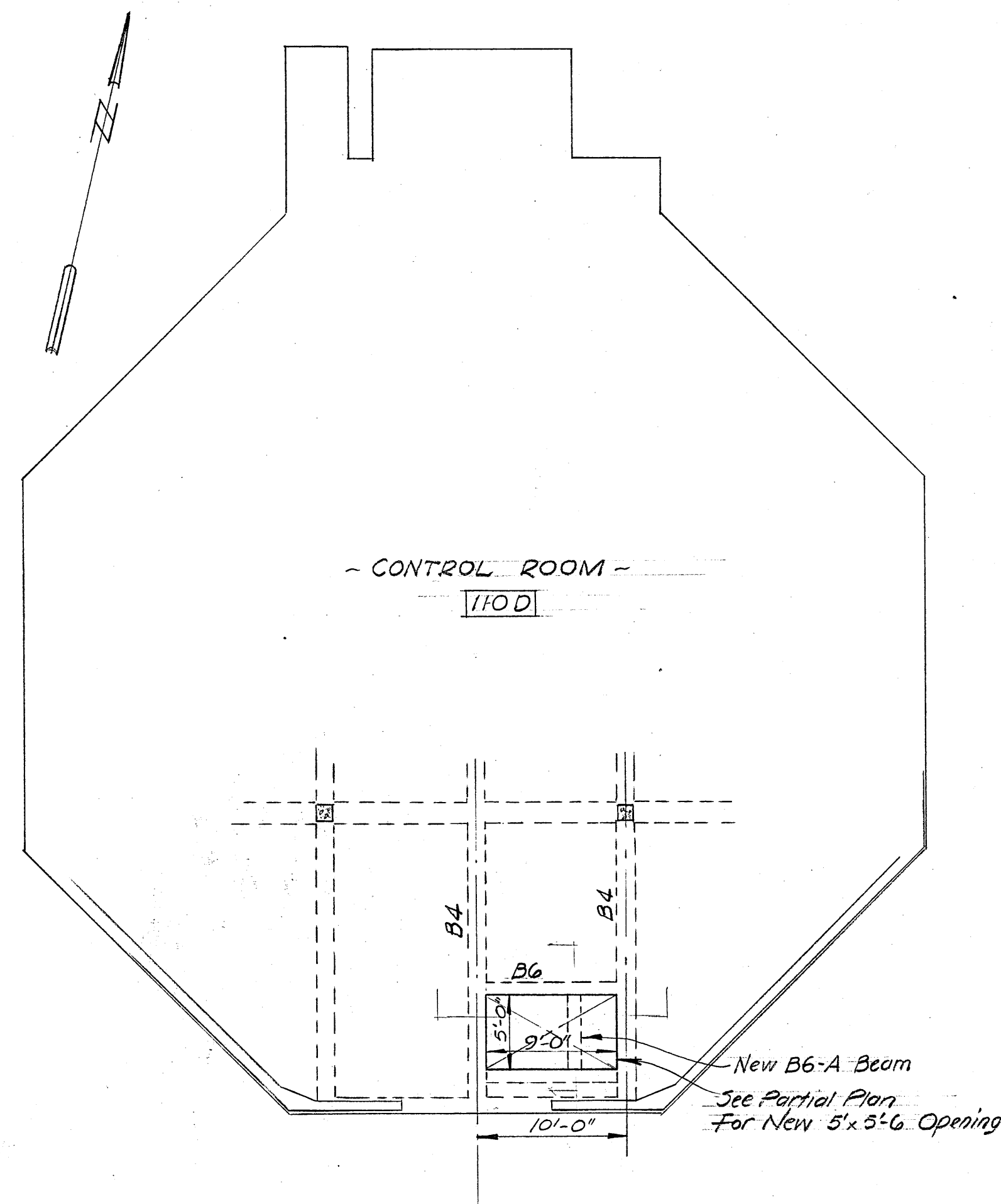
- NOTES**
1. For General Notes See VG-1380.
 2. Locations & Details of Holes in Walls & Slabs are Approximate.
 3. Holes in Walls & Slabs Covered by This Drawing are Not Intended to Include Doors, Windows, Louvers, Etc.
 4. All Pipe & Fittings to be 125# Flanged C.I. Unless Otherwise Noted.
 5. All C.I. Sludge Pipe & Fittings to be Cement Mortar Lined & Exterior Painted as Req'd by Specs. SD-96.
 6. All Pipe Elevations Refer to Centerlines.
 7. All Vent Piping 3/8" Sched. 40 Steel Pipe to Outside Atmosphere with No Traps in Lines, Do Not Vent Into Heater Stack.
 8. All Pressure Control Piping to be Run Thru. Existing Holes in Walls & Floor Where Possible.

ITEM	REQD	DESCRIPTION	REMARKS
10A	1	Venturi Meter, 6" Simplex Type TU	Furn. By Contr.
9A	1	Venturi Meter Transmitter-Minn. Honeywell 228H5HB	" " "
4A	1	Heater Circulating Pump, 4" Wemco Model C	" " "
3A	1	Main Circ. Pump, 6" Chicago Non-Clog Type HBB	" " "
1A	1	Sludge Heater, R.F.T., 15 Million BTU Per Hr.	" " "

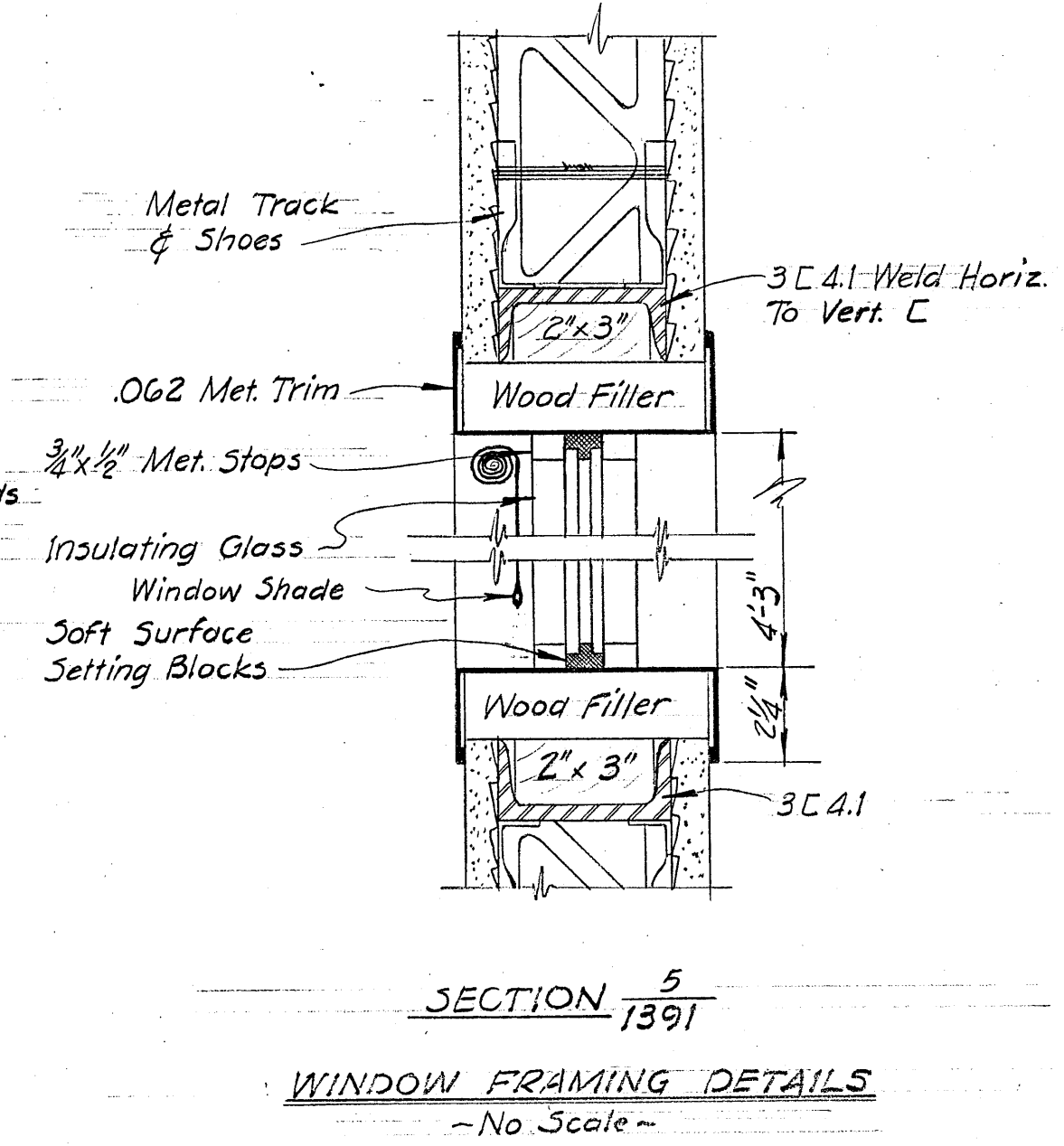
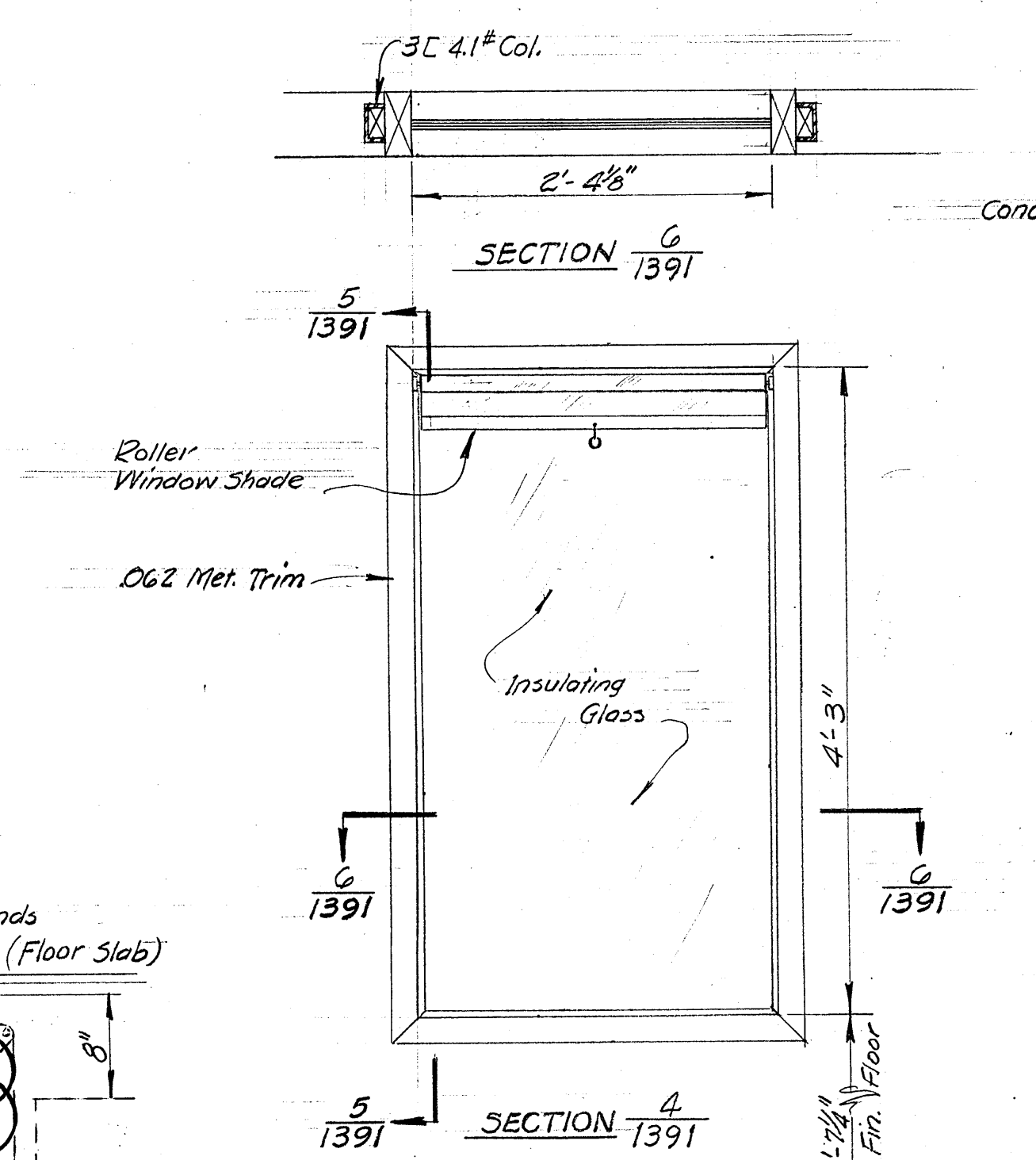
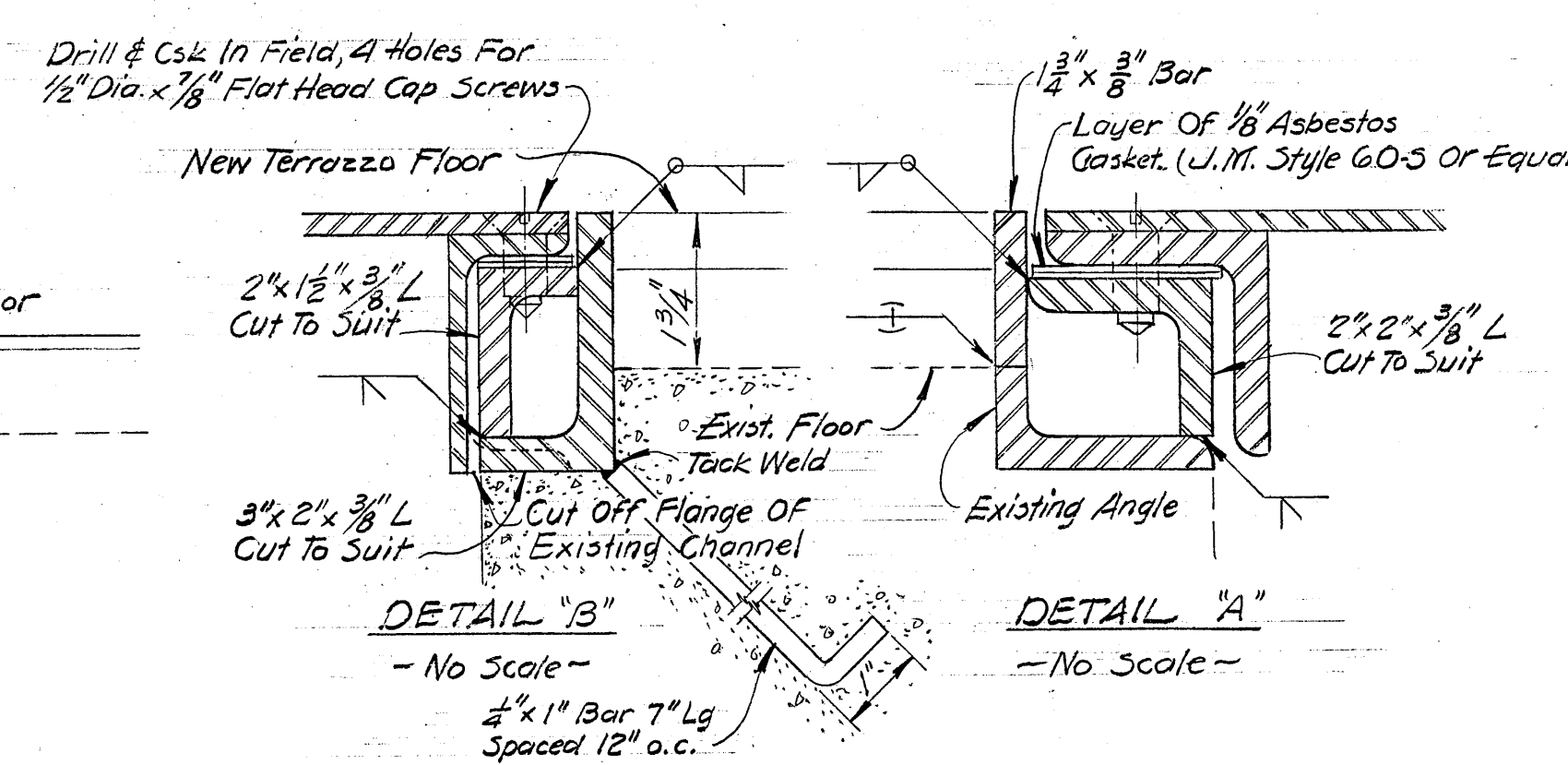
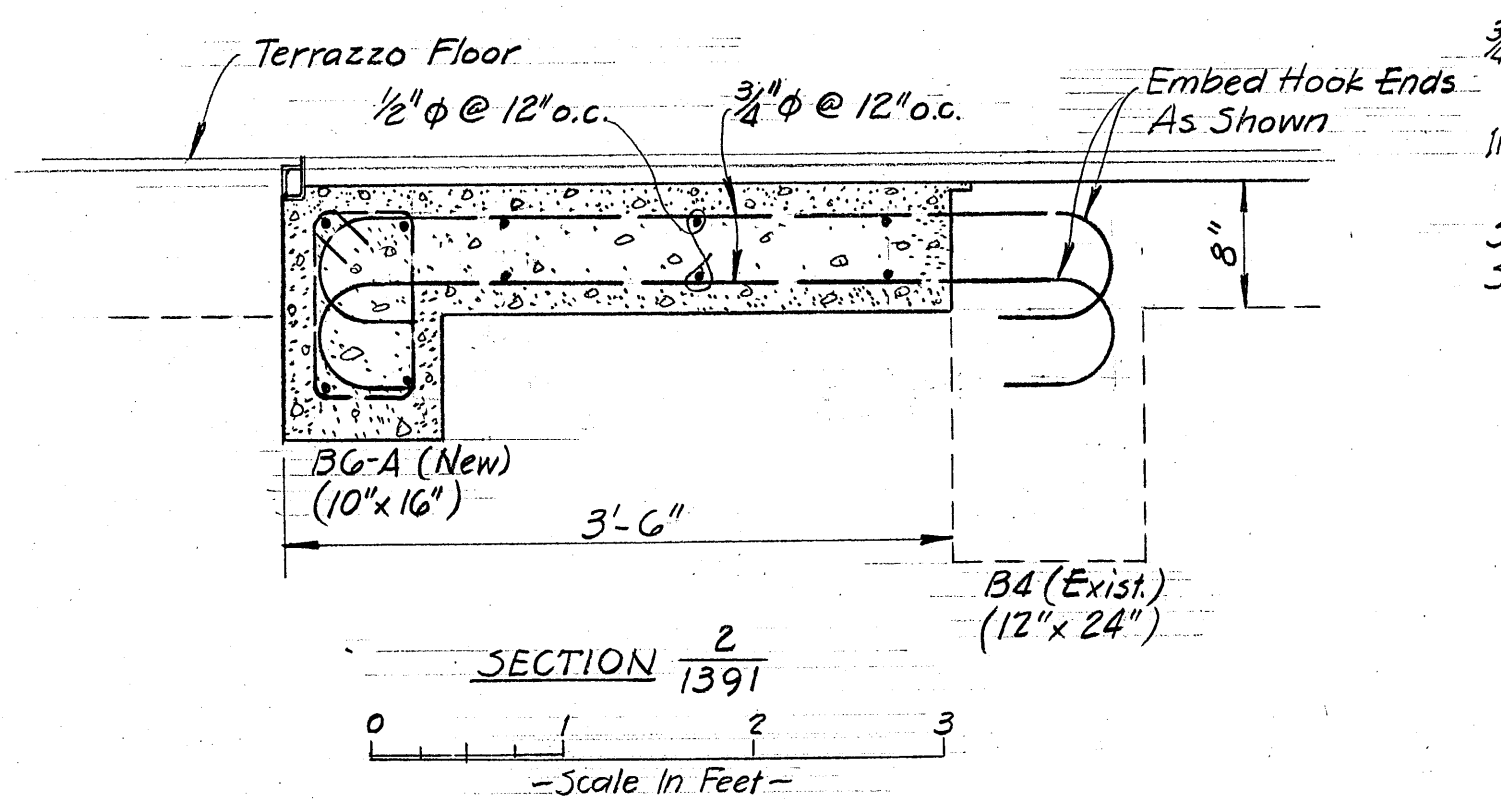
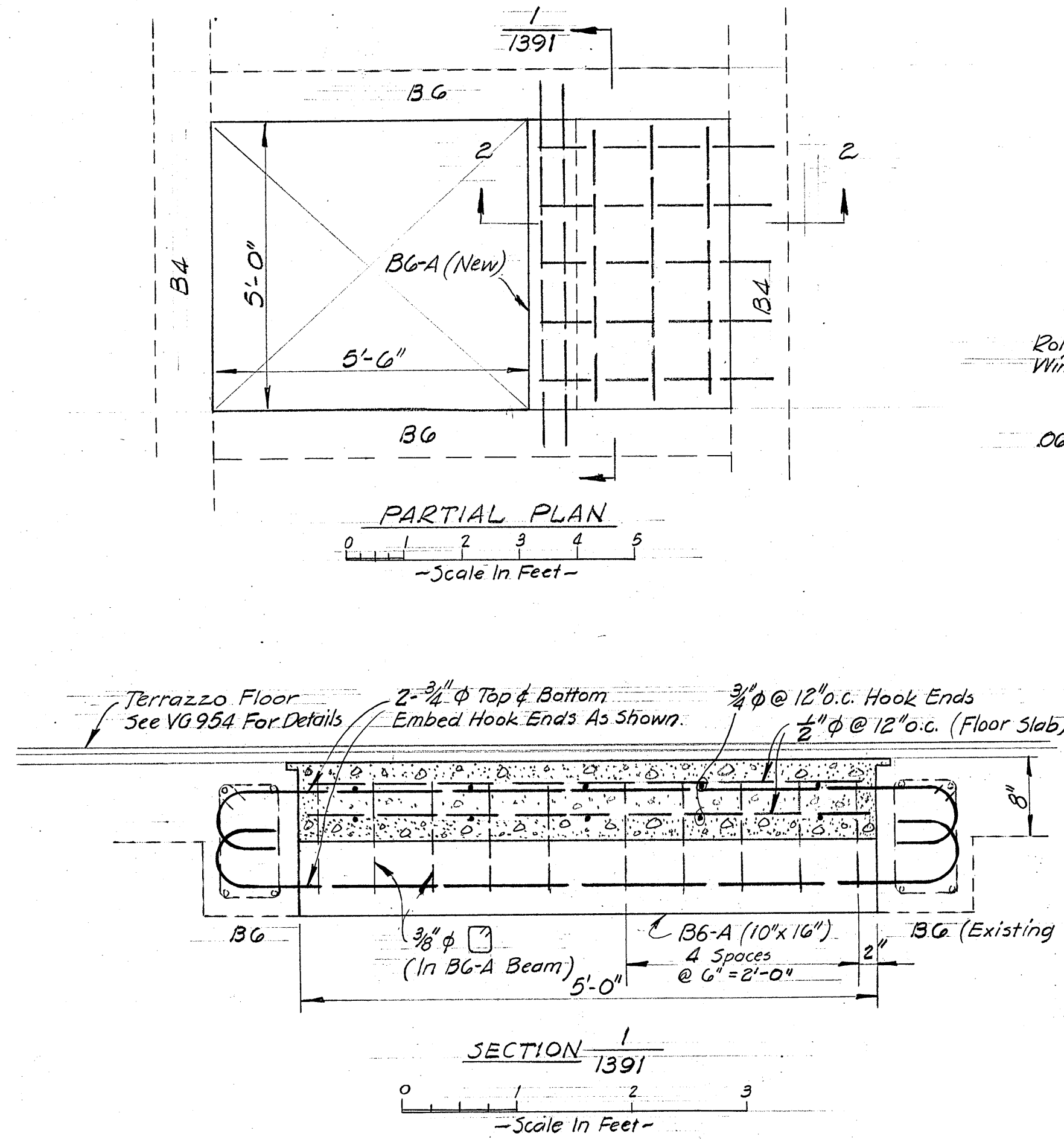
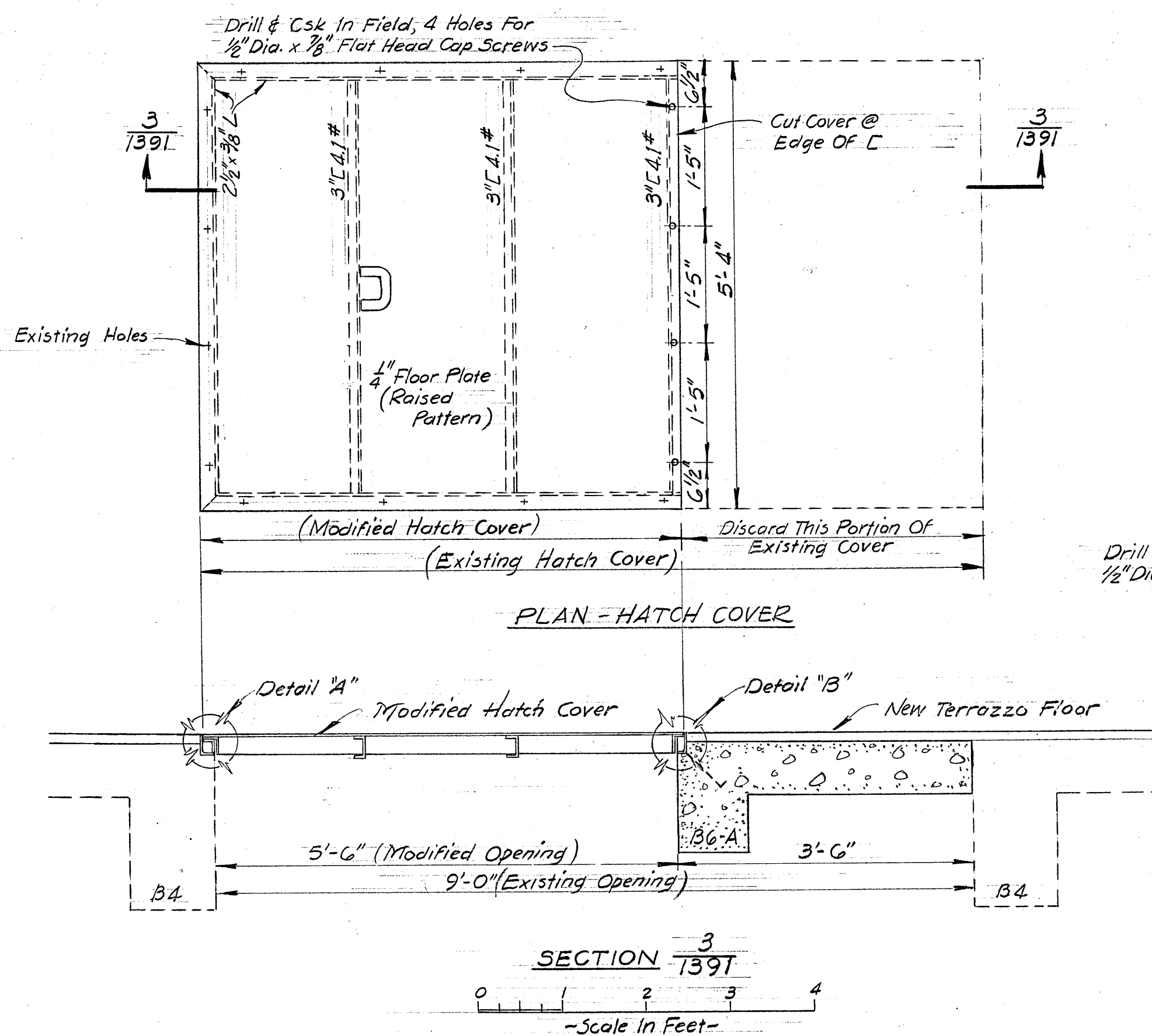
PARTIAL LIST OF MATERIAL

EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT No. 1 OAKLAND, CALIFORNIA	
DIGESTION CONTROL BUILDING -STRUCTURAL & MECHANICAL-	
SLUDGE HEATER NO. 4 & DETAILS	
SP9779-Sludge Piping For Tank #4 Manifold Details SP9759-Sludge Piping-Tank #4 Elev. 105.00, Plan & Details SP6666-Plan @ Elev. 116.00 VG979-Floor & Wall Openings & Details. -REFERENCE DRAWINGS-	DESIGNED BY EWP & HAP CHECKED BY EWP & SK RECOMMENDED BY J.P. [Signature] APPROVED BY [Signature]
DRAWN BY Y. Wong DATE 3-15-57 SCALE AS SHOWN	TRACED BY SCALE AS SHOWN No. VG-1390





PLAN @ ELEV. 116'00
~ Scale In Feet ~



- ~Notes~
1. For Location See VG 954.
 2. All Structural Steel Hot Dip Galvanized In Accordance With Specifications Before Fabrication.
 3. All Galvanized Surfaces Damaged Before Or During Installation By Welding, Machining, etc. Were Given A Protective Coat Of "Galvalloy" As Manufactured By Metalloy Products Co. Or Approved Equal.
 4. All Glass To Be Double Layer Insulating Clear Glass.

NO.		DATE	REVISIONS	MADE BY	CHKD. BY
EAST BAY MUNICIPAL UTILITY DISTRICT SPECIAL DISTRICT No. 1 OAKLAND, CALIFORNIA					
DIGESTION CONTROL BUILDING -STRUCTURAL-					
HATCH ALTERATIONS AND LUNCHROOM DETAILS					
-REFERENCE DRAWINGS-					
VG 1386- Alterations To Entrance & Main Floor					
VG 969- Slob Details					
VG 967- Floor Details (Sheet 1 OF 2)					
VG 963- Plan & Details					
VB 136- Hatch Cover Details					
DESIGNED BY CPG, JDF					
CHECKED BY SK, JDF		DRAWN BY RWC		TRACED BY J.W.	
		DATED -19-57		SCALE As Shown	
RECOMMENDED BY J.D. Zeller					
APPROVED BY J.D. Zeller					
No. VG 1391					