

LOCATION PLAN  
SCALE 1" = 2000'

COUNTY OF ONONDAGA, NEW YORK

DEPARTMENT OF PUBLIC WORKS

DIVISION OF DRAINAGE & SANITATION

MEADOWBROOK LIMESTONE

TREATMENT PLANT DISTRICT

# SEWAGE TREATMENT FACILITIES

- CONTRACT 2 — GENERAL
- CONTRACT 3 — ELECTRICAL
- CONTRACT 4 — HEATING & VENTILATING
- CONTRACT 5 — PLUMBING

**ARCHIVE DRAWINGS**  
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JOHN H. MULROY — COUNTY EXECUTIVE  
EDWIN H. BAYLARD — COMMISSIONER  
UHL T. MANN — DEPUTY COMMISSIONER  
JOHN J. HENNIGAN JR. — ASST. DEP. COMMISSIONER

Mac KNIGHT — KIRMMSE, FRENCH & SIZING  
CONSULTING ARCHITECTS  
SYRACUSE, NEW YORK

O'BRIEN & GERE  
CONSULTING ENGINEERS  
SYRACUSE, NEW YORK

APPROVED BY ONONDAGA COUNTY  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE & SANITATION

N.Y.S. PROFESSIONAL ENGINEERS' LICENSE NO. 28260

*Uhl T. Mann* 5-22-69  
DEPUTY COMMISSIONER DATE

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J.F. 331  
JmB 7-7-72  
JmB 7-7-72  
W.P. 7-7-72

# SEWAGE TREATMENT FACILITIES DRAWING INDEX

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P-1 INFLUENT PUMP STATION - FIRST FLOOR  
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P-4 GARAGE

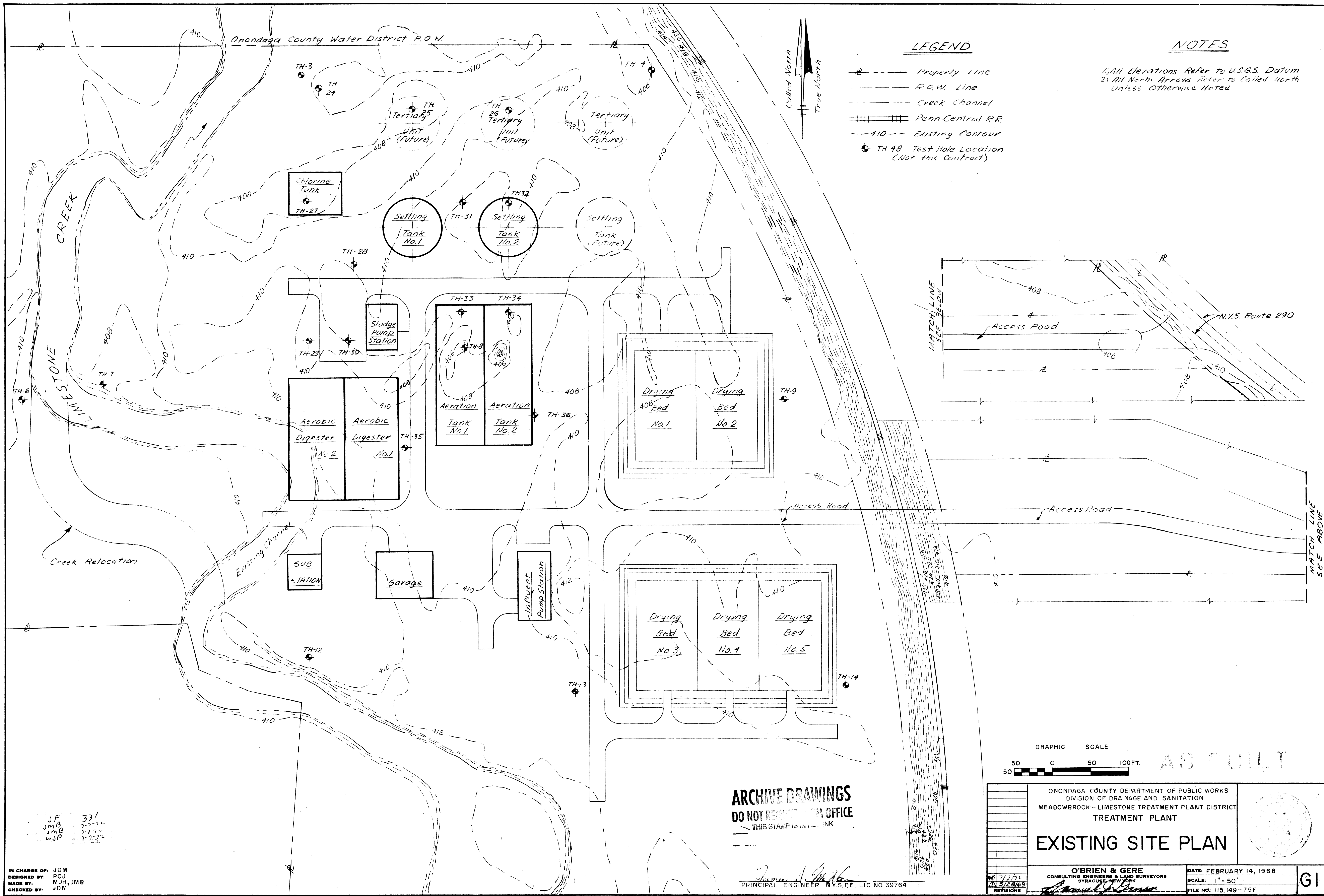
## GENERAL NOTES

- ALL ELEVATIONS REFER TO U.S.G.S. DATUM
- SECTION CUTS AND DESIGNATIONS ARE SHOWN FRACTIONALLY: NUMERATOR DENOTES SECTION NUMBER; DENOMINATOR DENOTES SHEET NUMBER WHERE SECTION IS CUT OR SHOWN. FOR INSTANCE, A SECTION CUT ON NO. 30 IDENTIFIED AS  $\frac{1}{22}$  REFERS TO THE FIRST SECTION SHOWN ON SHEET NO. 22 WHICH IN TURN WOULD BE DESIGNATED SECTION  $\frac{1}{30}$  OTHER SECTIONS DESIGNATED BY LETTER.

JF 331  
JMB 2-2-72  
JMB 2-2-72  
JSP 2-2-72

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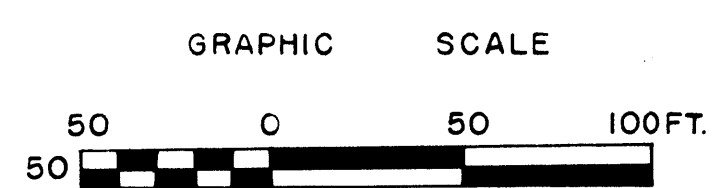
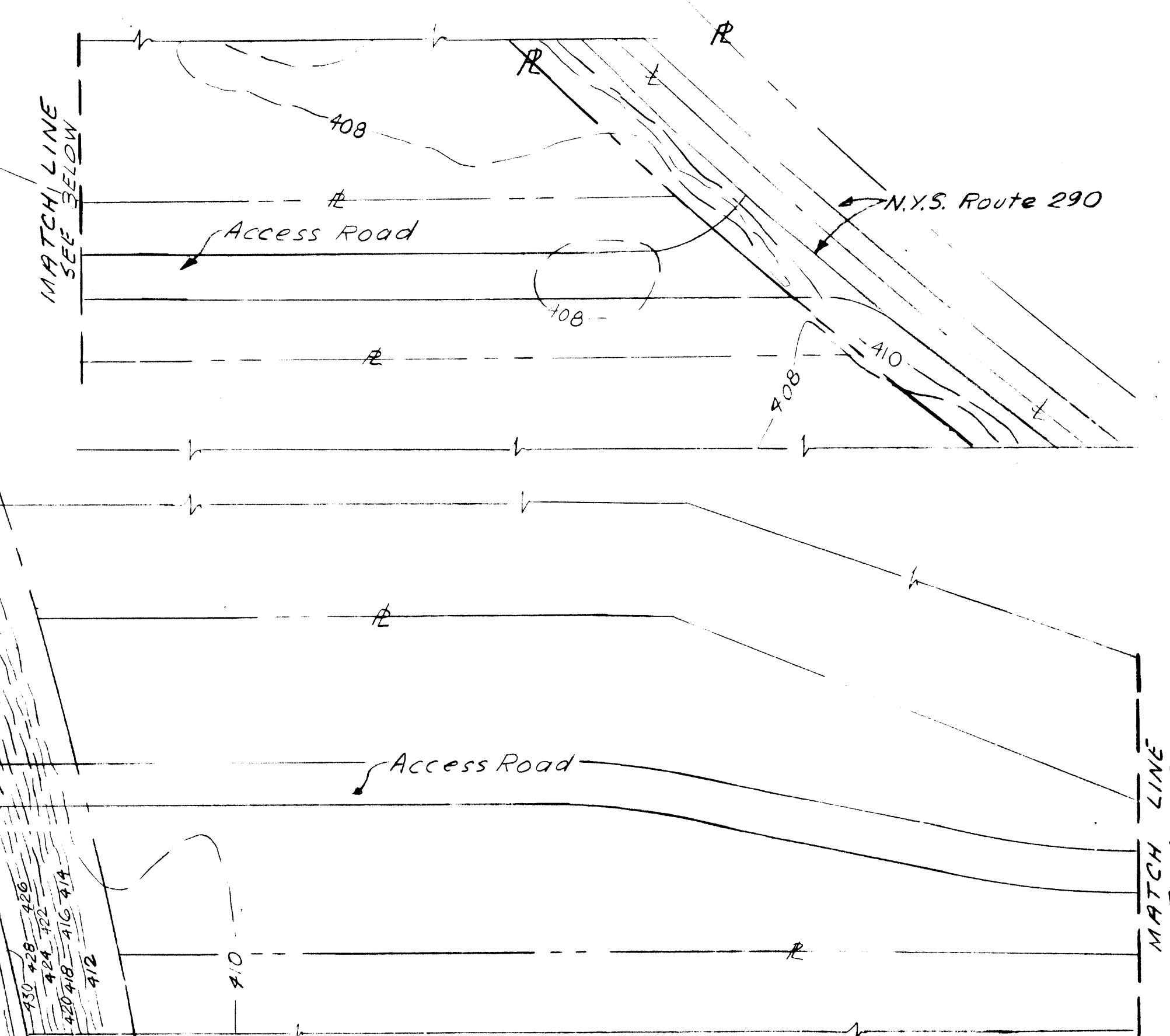
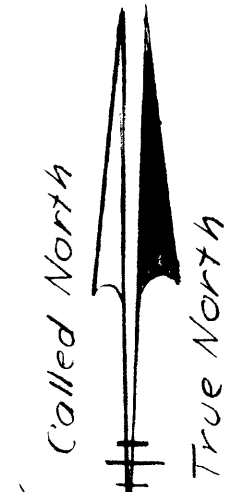


**LEGEND**

- Property Line
- R.O.W. Line
- Creek Channel
- ||||| Penn-Central R.R.
- 410- Existing Contour
- ◆ TH-18 Test Hole Location (Not this Contract)

**NOTES**

- 1) All Elevations Refer to U.S.G.S. Datum
- 2) All North Arrows Refer to Called North Unless Otherwise Noted



AS BUILT

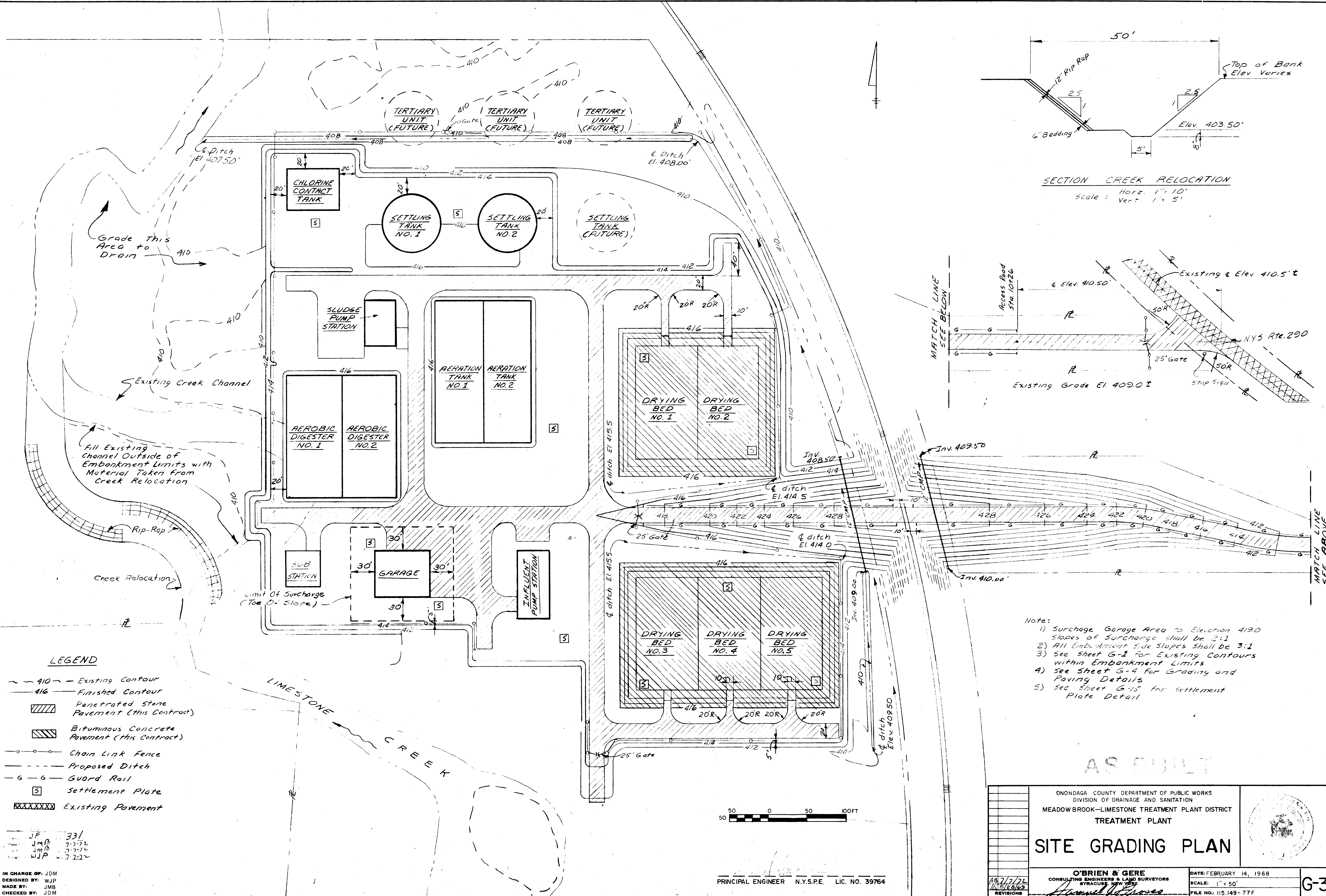
**ARCHIVE DRAWINGS**  
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*James J. McNamee*  
PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		
<b>EXISTING SITE PLAN</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: 1" = 50' FILE NO: 115,149-75F	GI
REVISIONS		

JF 33/  
JMB 2-7-72  
JMB 2-7-72  
WJP 2-7-72

IN CHARGE OF: JDM  
DESIGNED BY: PCJ  
MADE BY: MJH, JMB  
CHECKED BY: JDM



SECTION CREEK RELOCATION  
 Horiz. 1" = 10'  
 Scale: Vert. 1" = 5'

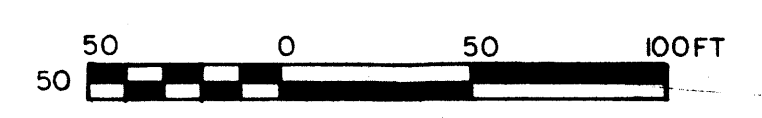
- Note:
- 1) Surcharge Garage Area to Elevation 419.0 Slopes of Surcharge shall be 2:1
  - 2) All Embankment Side Slopes shall be 3:1
  - 3) See Sheet G-1 for Existing Contours within Embankment Limits
  - 4) See Sheet G-4 for Grading and Paving Details
  - 5) See Sheet G-15 for Settlement Plate Detail

**LEGEND**

- - - 410 - Existing Contour
- - - 416 - Finished Contour
- Penetrated Stone Pavement (this Contract)
- Bituminous Concrete Pavement (this Contract)
- - - Chain Link Fence
- - - Proposed Ditch
- - - Guard Rail
- Settlement Plate
- Existing Pavement

JF 331  
 JMB 7-7-72  
 JMB 7-7-72  
 WJP 7-22-72

IN CHARGE OF: JDM  
 DESIGNED BY: WJP  
 MADE BY: JMB  
 CHECKED BY: JDM



PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

AS BUILT

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF DRAINAGE AND SANITATION  
 MEADOW BROOK-LIMESTONE TREATMENT PLANT DISTRICT  
 TREATMENT PLANT

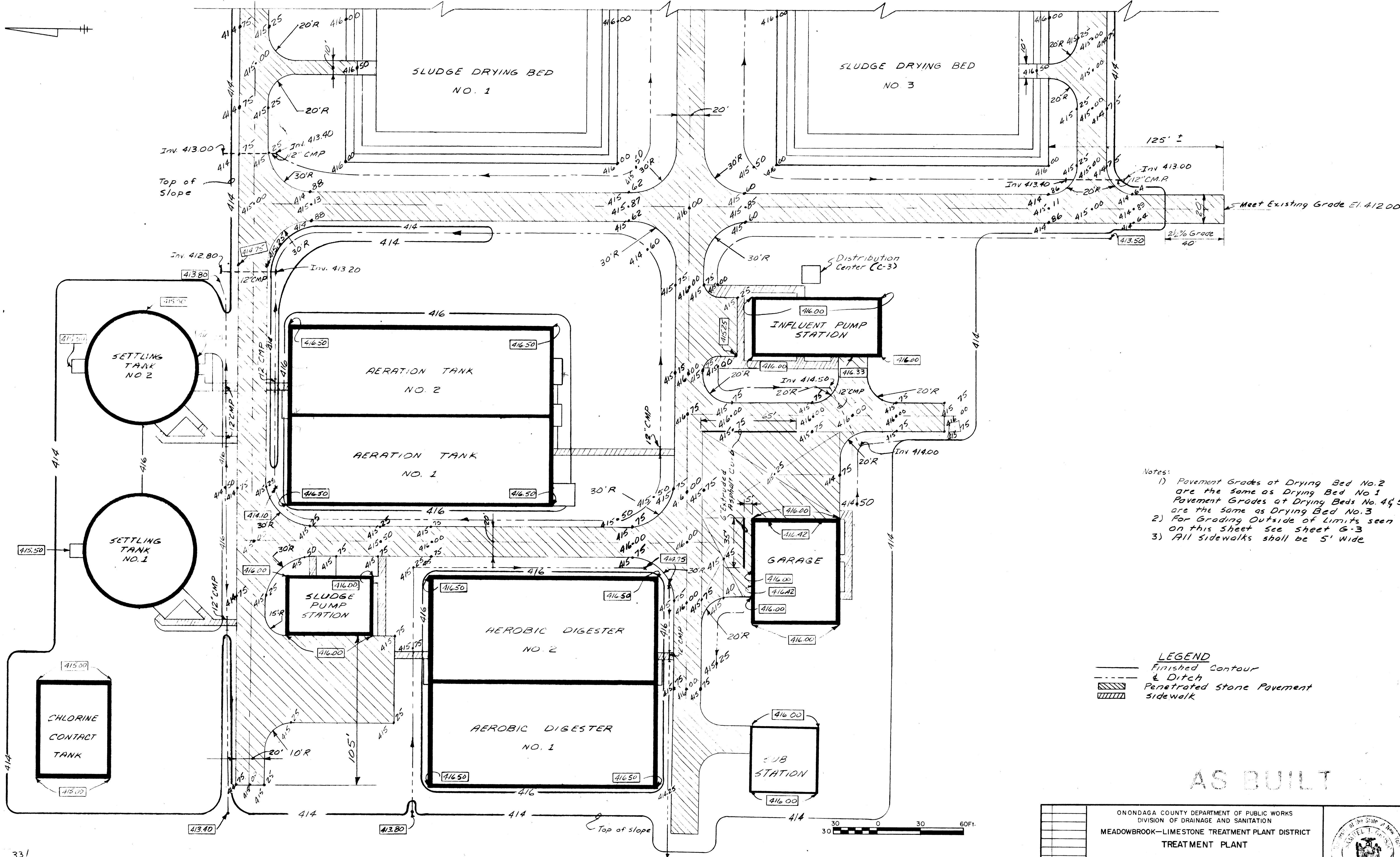
**SITE GRADING PLAN**

O'BRIEN & GERE  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 SYRACUSE, NEW YORK

DATE: FEBRUARY 14, 1968  
 SCALE: 1" = 50'  
 FILE NO.: 115.149-77F

G-3





- Notes:
- 1) Pavement Grades at Drying Bed No. 2 are the same as Drying Bed No. 1. Pavement Grades at Drying Beds No. 4 & 5 are the same as Drying Bed No. 3.
  - 2) For Grading Outside of Limits seen on this sheet see sheet G-3.
  - 3) All Sidewalks shall be 5' wide.

**LEGEND**  
 ——— Finished Contour & Ditch  
 ▨ Penetrated Stone Pavement  
 ▩ Sidewalk

AS BUILT

JF 33/  
 JMB 7-7-72  
 JMB 7-7-72  
 WJP 7-7-72

IN CHARGE OF: JDM  
 DESIGNED BY: WJP  
 MADE BY: JMB  
 CHECKED BY: JDM

PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF DRAINAGE AND SANITATION  
 MEADOWBROOK—LIMESTONE TREATMENT PLANT DISTRICT  
 TREATMENT PLANT

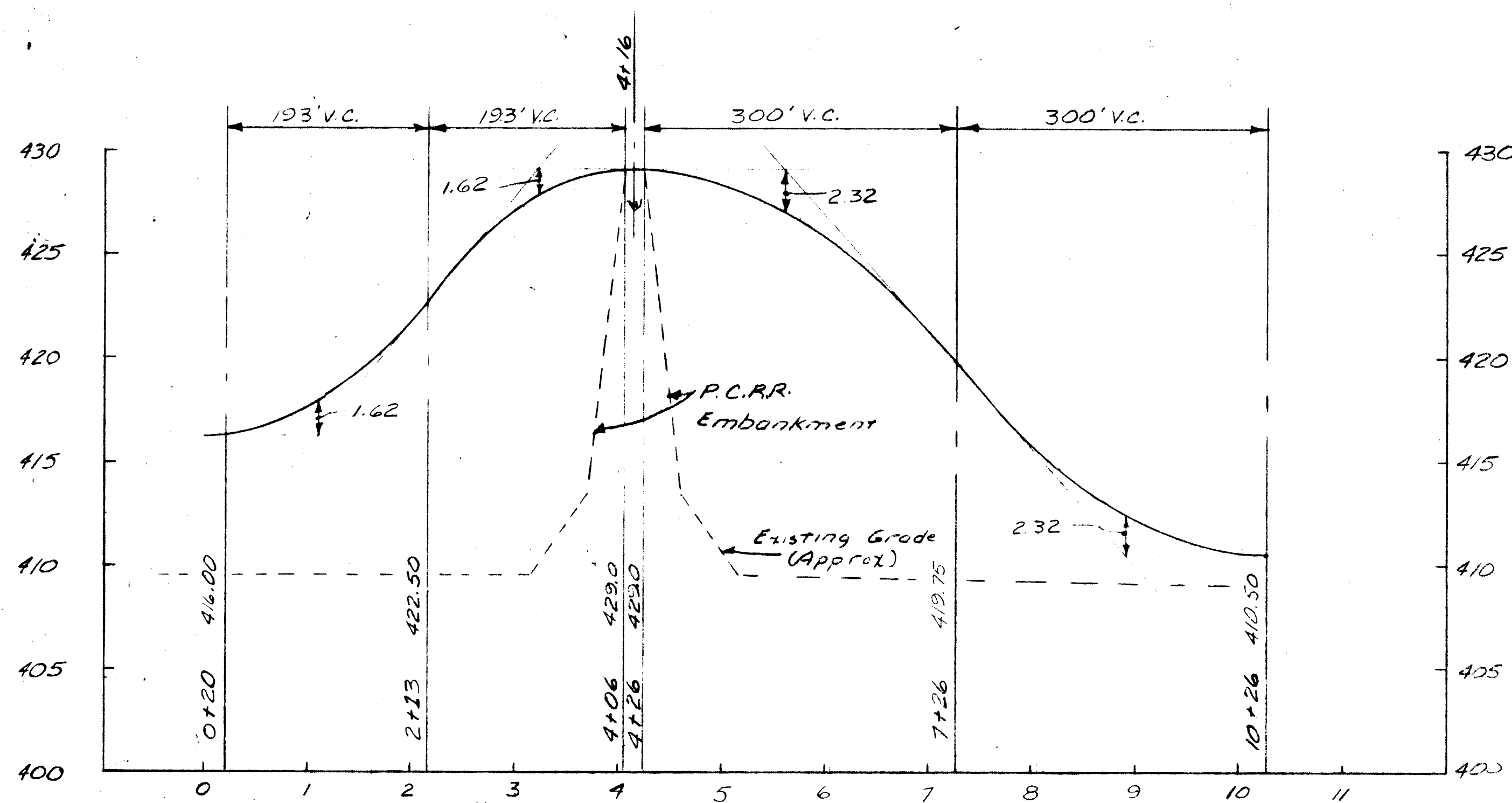
**FINISHED SITE PLAN**



O'BRIEN & GERE  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 SYRACUSE, NEW YORK

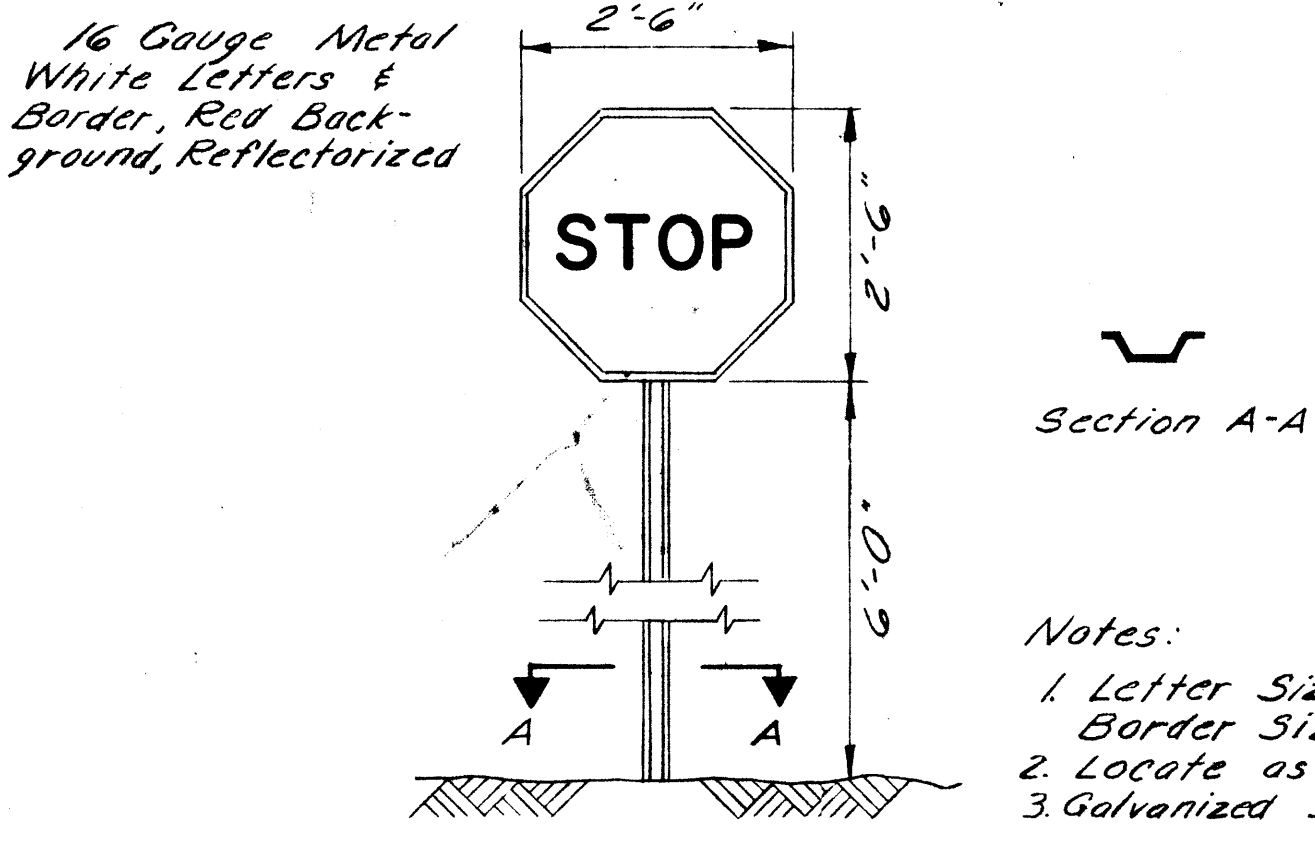
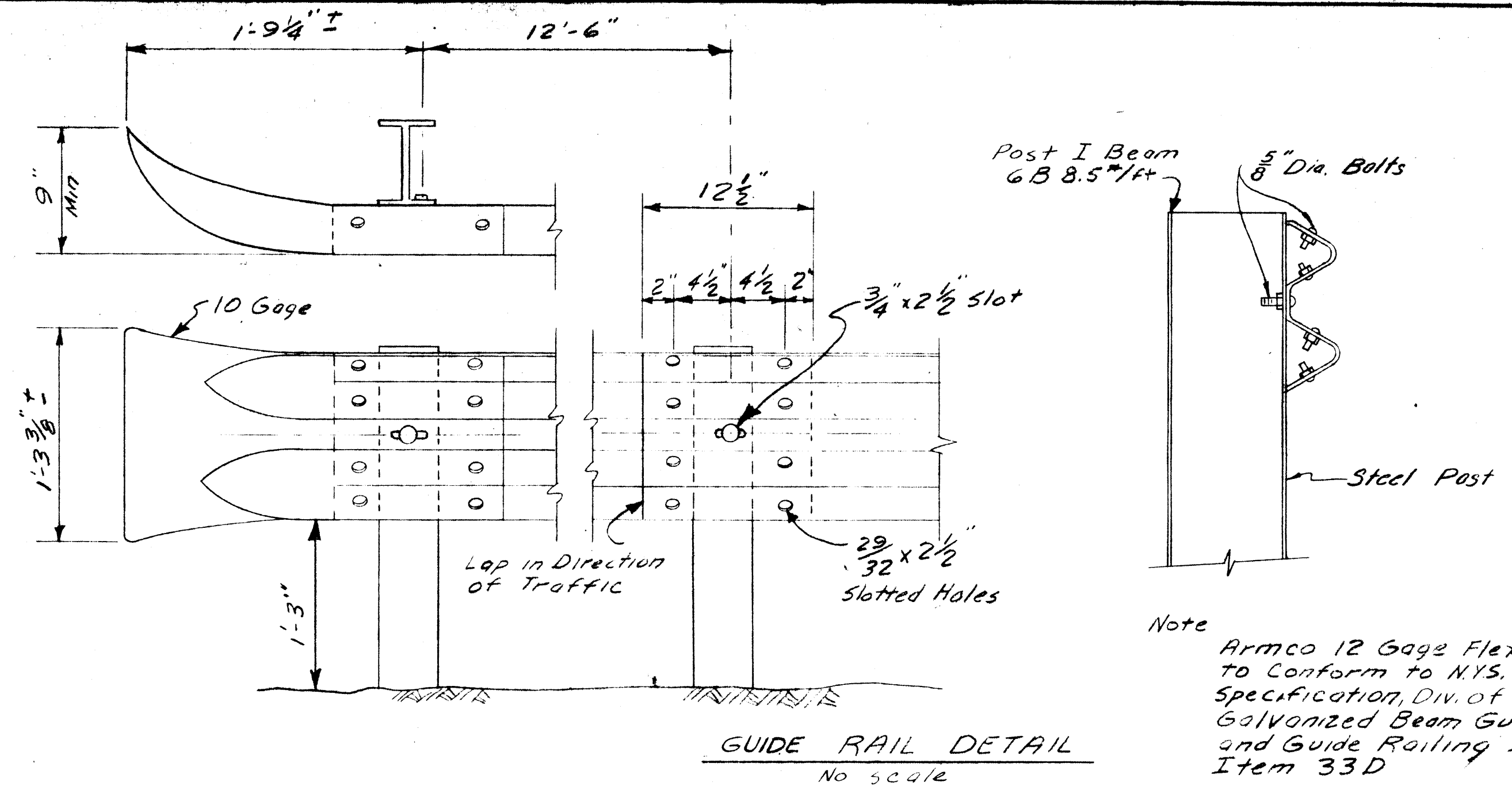
DATE: FEBRUARY 14, 1968  
 SCALE: 1" = 30'  
 FILE NO.: 115,149-78F

G4

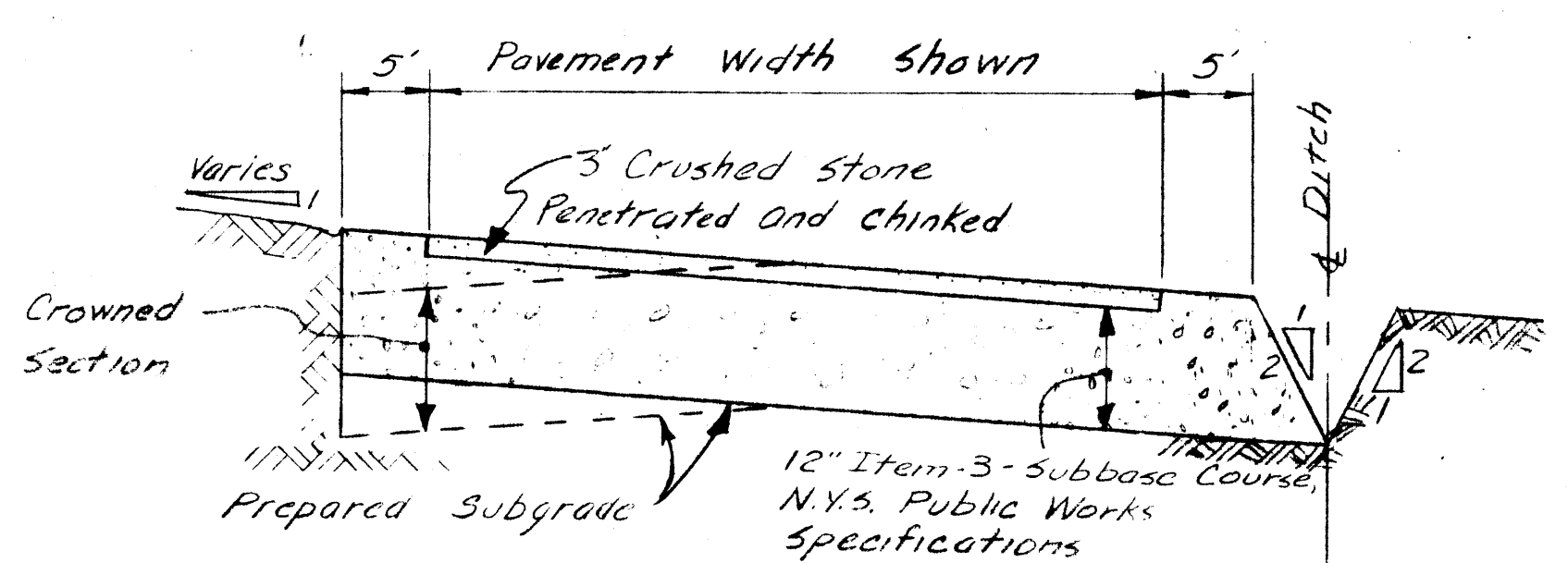


ACCESS ROAD PROFILE  
PCRR CROSSING

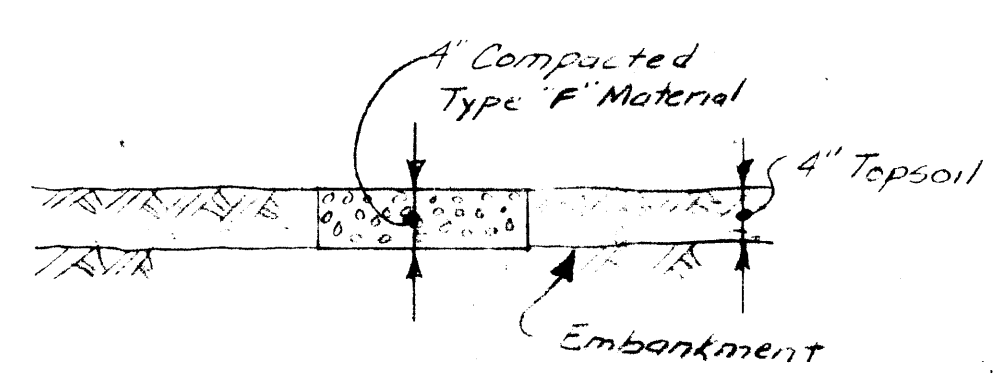
Scale Vert: 1" = 5'  
Horz: 1" = 50'



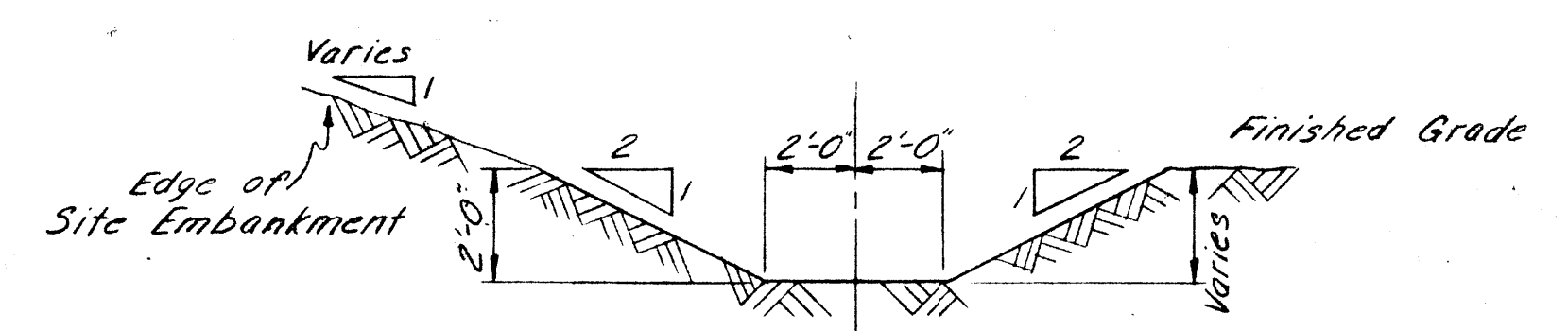
DETAIL - STOP SIGN  
No Scale



SECTION 2/3-4  
Site Road  
No Scale

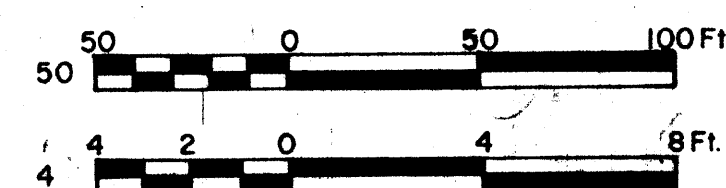


SIDEWALK SECTION  
No Scale



TYPICAL CROSS-SECTION  
DRAINAGE DITCH  
No Scale

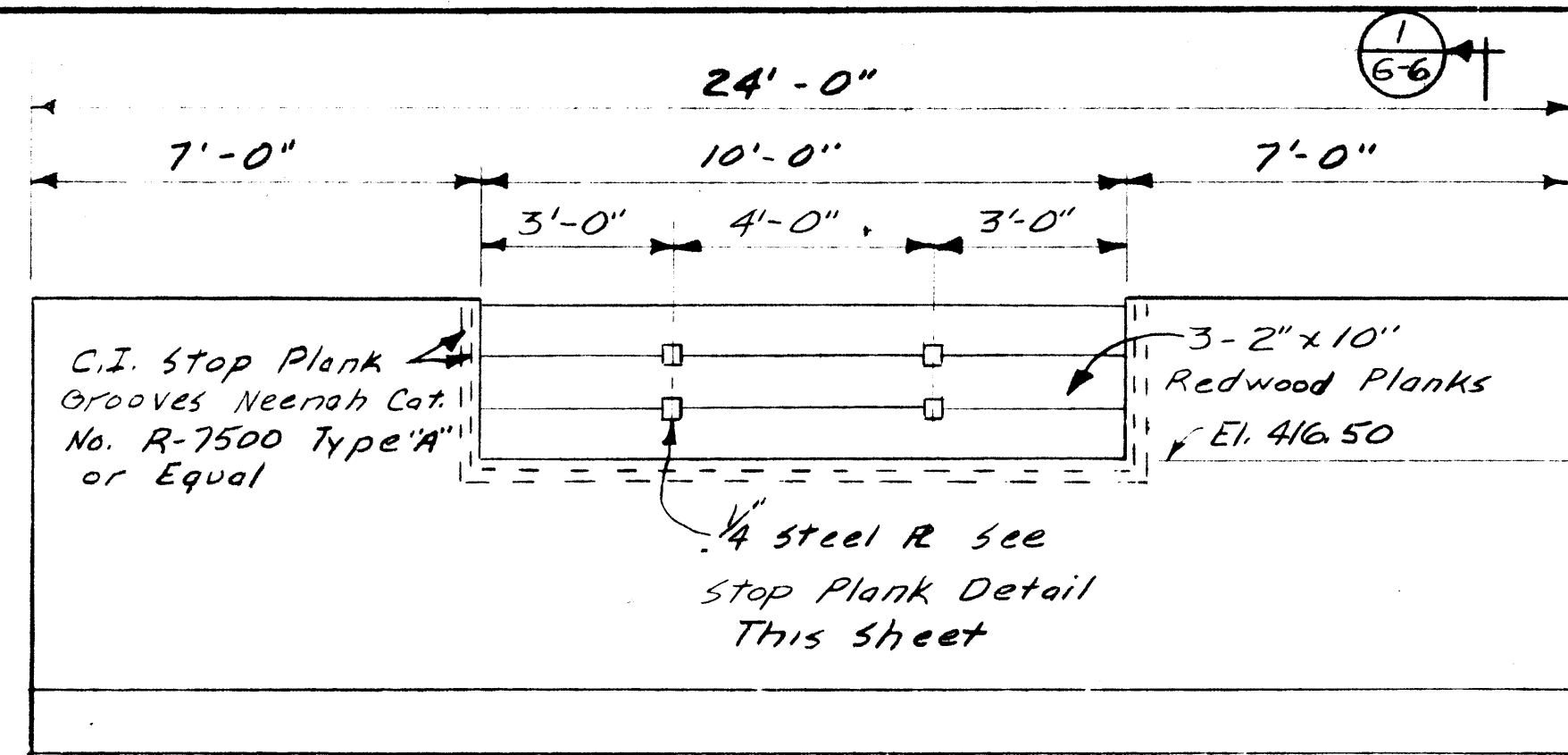
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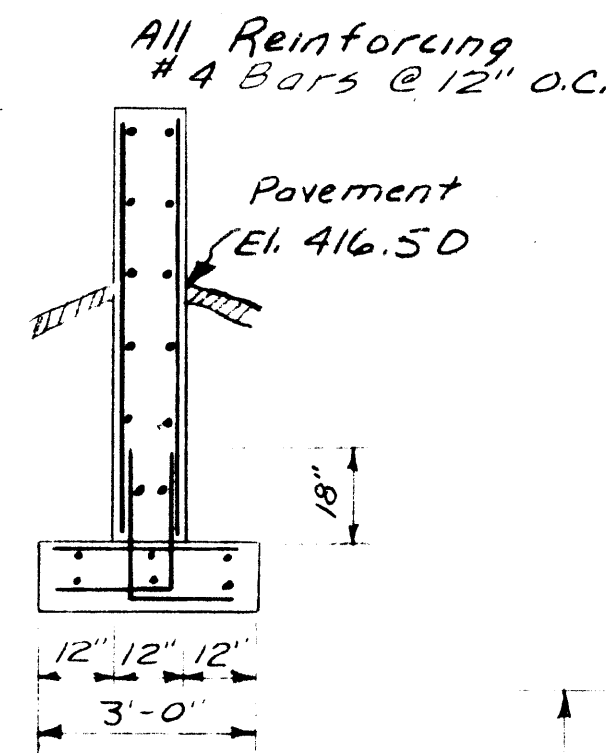
James A. G. [Signature]  
PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		
<b>SITE DETAILS</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, N.Y.		DATE: FEBRUARY 14, 1968 SCALE: AS SHOWN FILE NO.: 15.17-79F
IN CHARGE OF: JDM DESIGNED BY: PCJ MADE BY: VMB CHECKED BY: JDM	AS 7/7/72 15.17-79F REVISIONS	G-5

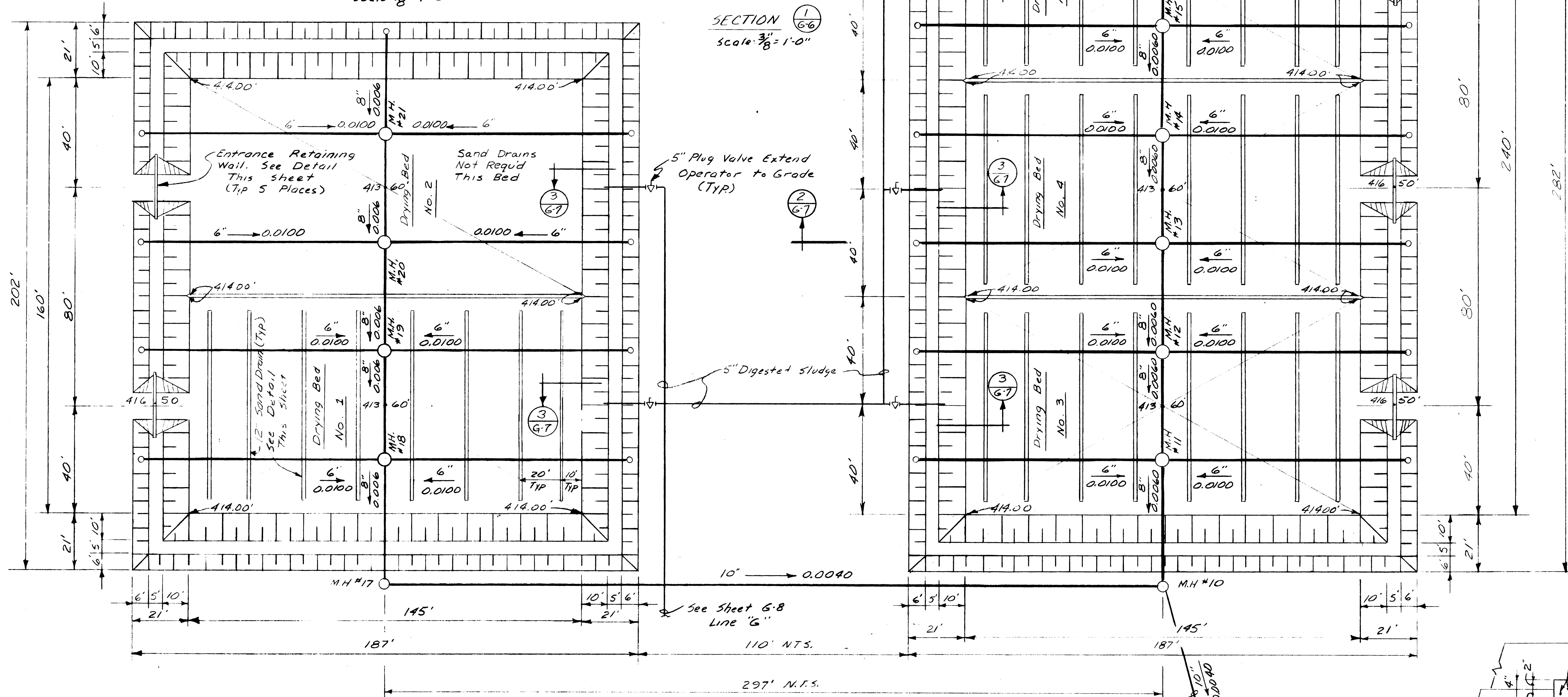




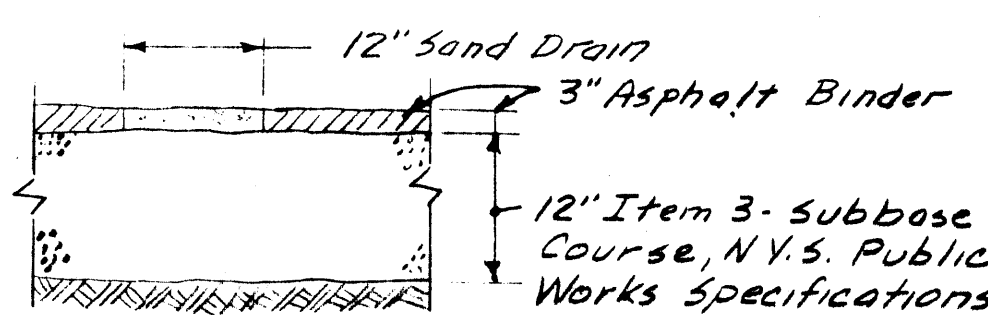
ENTRANCE RETAINING WALL  
Scale: 3/8" = 1'-0"



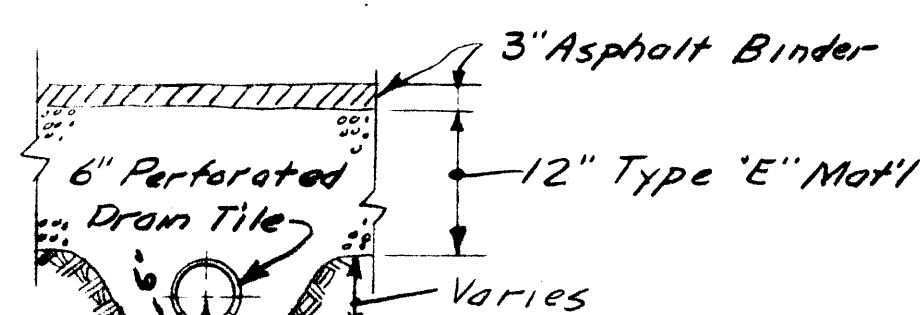
SECTION 1/67  
Scale: 3/8" = 1'-0"



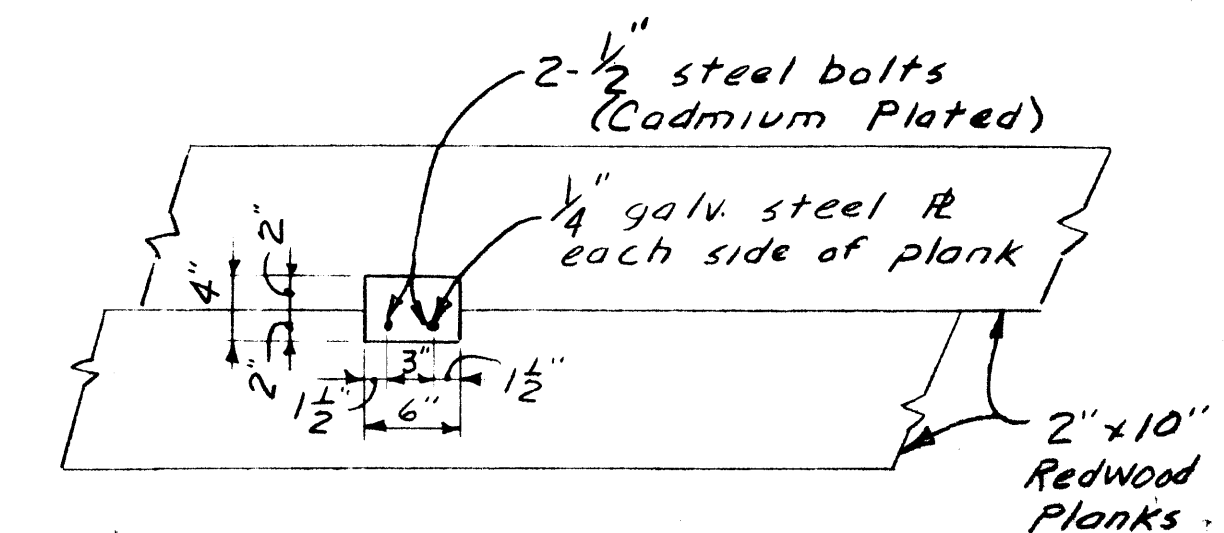
SLUDGE DRYING BEDS - PLAN  
Scale: 1" = 20'



SAND DRAIN DETAIL (TYP)  
No Scale

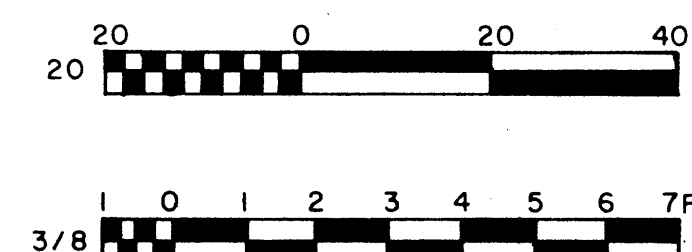


PERFORATED DRAIN DETAIL (TYP)  
No Scale  
Note: 6" of 1/4 stone shall be placed beneath & around perforated drain tile. The drain tile shall be covered w/ a min of 12" of hand tamped 1/4 stone before rolling over the pipe shall be permitted.



STOP PLANK DETAIL  
Scale: 1" = 1'-0"

AS BUILT

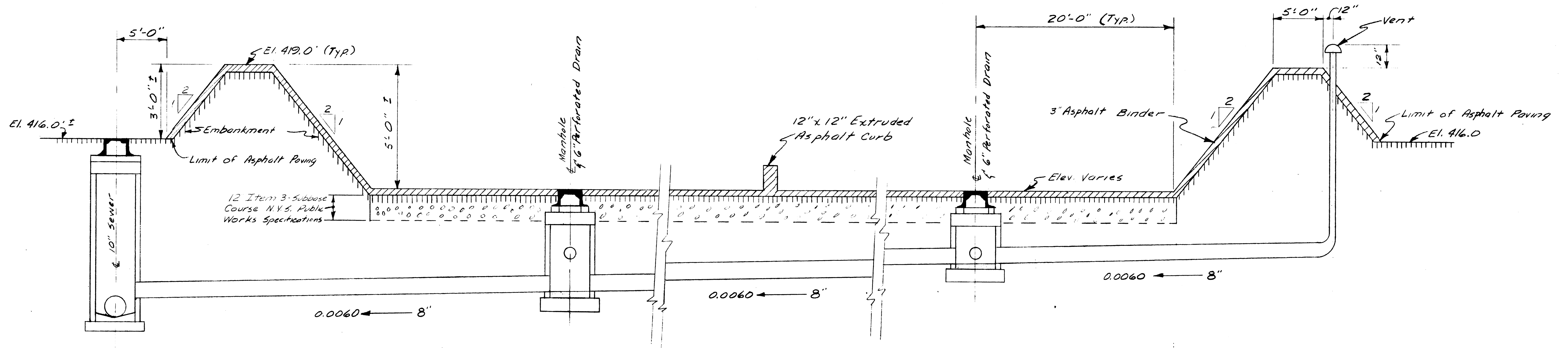


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DESIGNED BY: WJP  
MADE BY: JMB  
CHECKED BY: JDM

PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

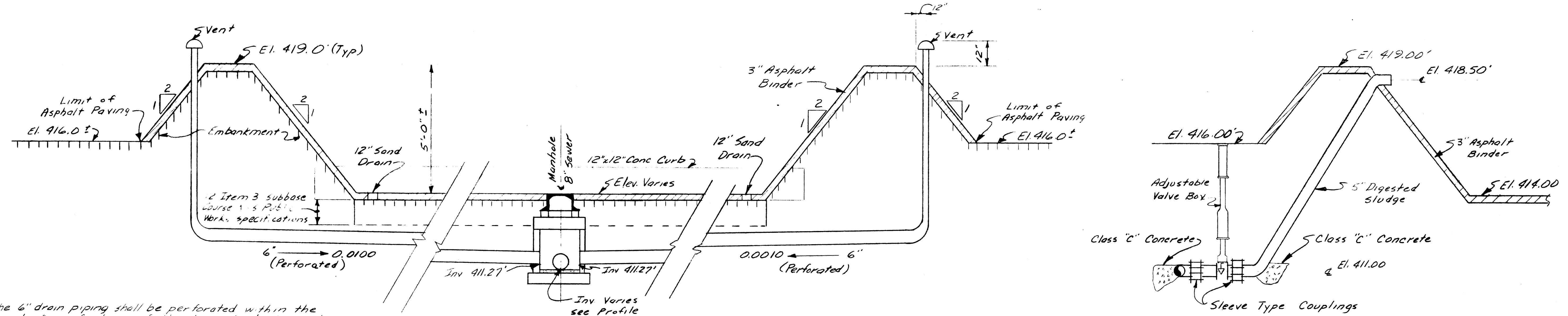
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		
<b>SLUDGE DRYING BEDS PLAN</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, N.Y.	DATE: FEBRUARY 14, 1968 SCALE: AS SHOWN FILE NO.: IIS.149-80F	G-6





Note: For Inv. of 8" Pipe See Profile Sheet G-10

SECTION 1  
TYPICAL SLUDGE DRYING BED SECTION  
Scale Horz: 1"=5'  
Vert: 1"=2'



Note: The 6" drain piping shall be perforated within the inside toe of slopes of the drying beds six inch drain piping outside of these limits shall not be perforated. Unperforated 6" drain piping shall be at least equal in strength to the perforated 6" drain piping.

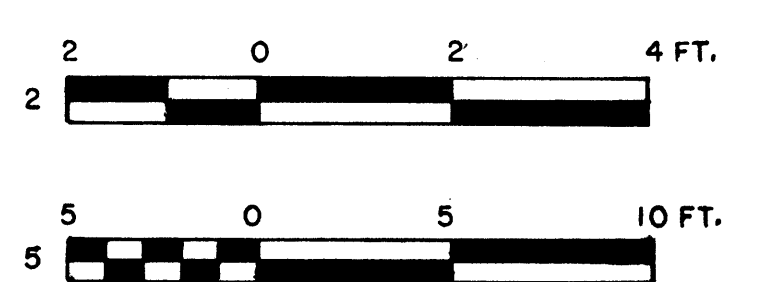
SECTION 2  
TYPICAL SLUDGE DRYING BED SECTION  
Scale Horz: 1"=5'  
Vert: 1"=2'

SECTION 3  
Scale Horz: 1"=5'  
Vert: 1"=2'

AS BUILT

J.F. 331  
J.M.B. 7-2-66  
J.M.P. 7-2-66  
J.D.M. 7-2-66

IN CHARGE OF: J.D.M.  
DESIGNED BY: W.J.P.  
MADE BY: J.M.B.  
CHECKED BY: J.D.M.



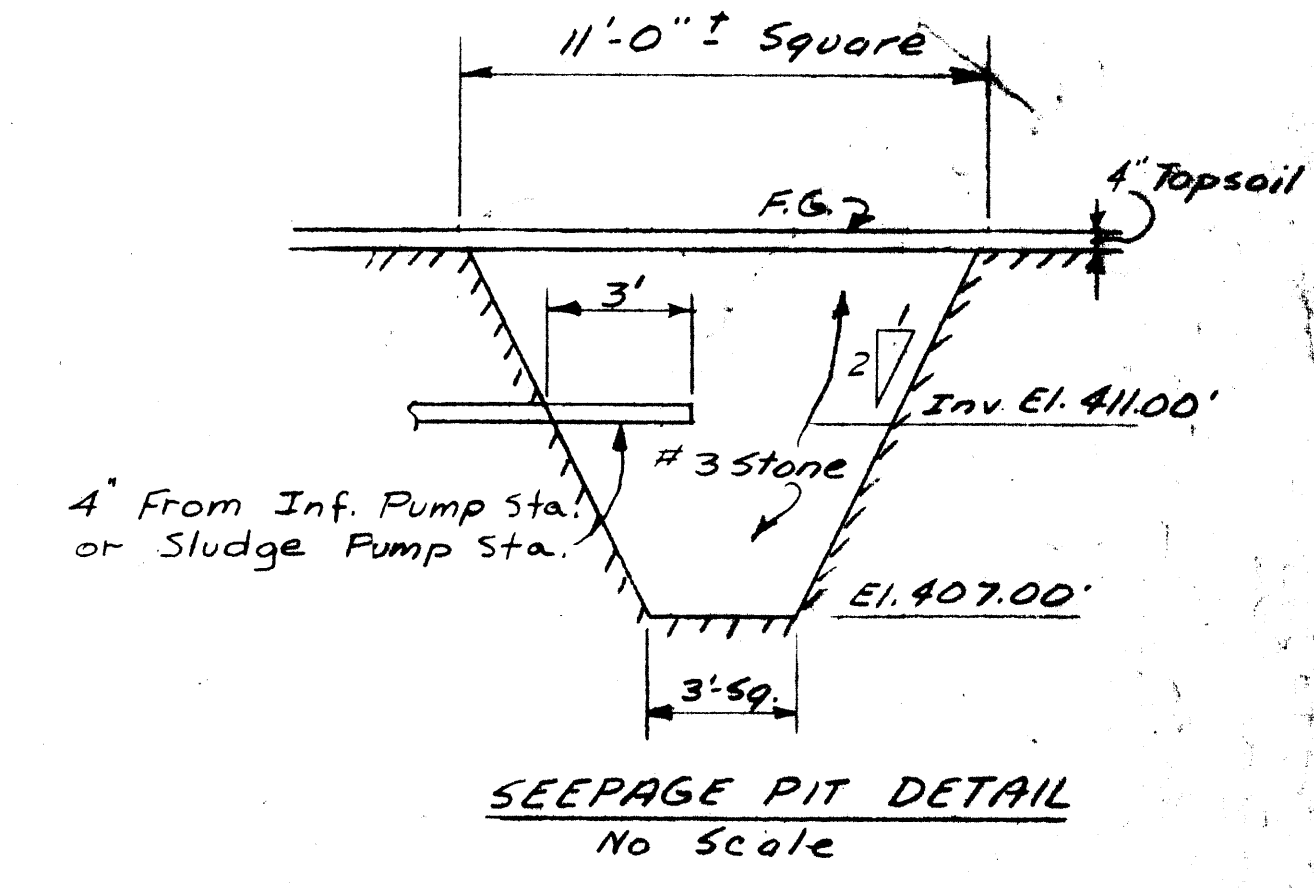
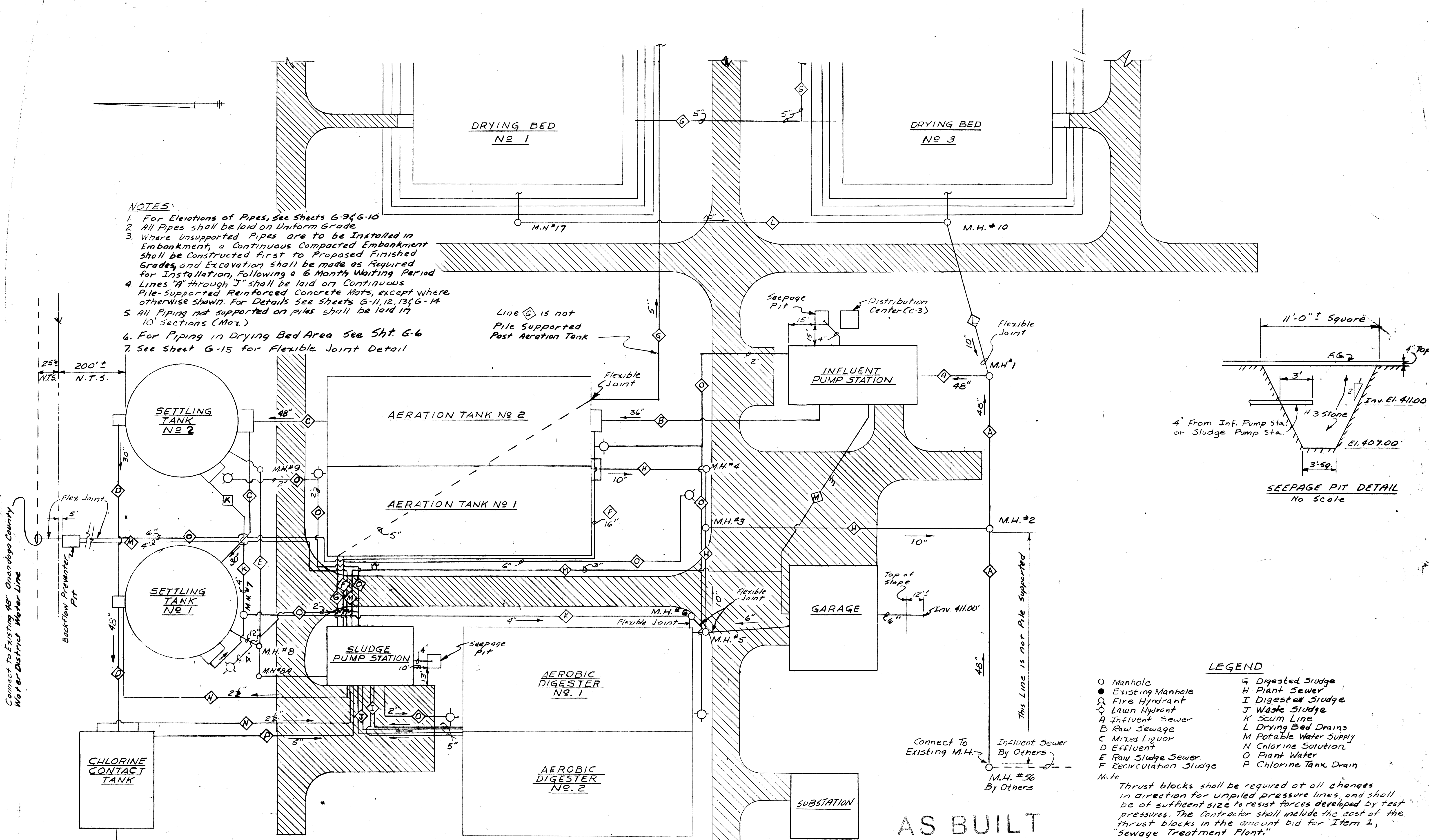
PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOW BROOK - LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		
<b>SLUDGE DRYING BEDS DETAILS</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK		DATE: FEBRUARY 14, 1968 SCALE: AS SHOWN FILE NO.: 115,149-81F
08/17/72 115/2465 REVISIONS		<b>G-7</b>

**NOTES:**

1. For Elevations of Pipes, See Sheets G-9 & G-10
2. All Pipes shall be laid on Uniform Grade
3. Where Unsupported Pipes are to be Installed in Embankment, a Continuous Compacted Embankment shall be Constructed First to Proposed Finished Grades, and Excavation shall be made as Required for Installation, Following a 6 Month Waiting Period
4. Lines "A" through "J" shall be laid on Continuous Pile-Supported Reinforced Concrete Mats, except where otherwise shown. For Details see Sheets G-11, 12, 13 & 14
5. All Piping not supported on piles shall be laid in 10' sections (Max.)
6. For Piping in Drying Bed Area see Sht. G-6
7. See Sheet G-15 for Flexible Joint Detail

Line G is not Pile Supported Post Aeration Tank



**LEGEND**

- Manhole
- Existing Manhole
- ⊕ Fire Hydrant
- ⊙ Lawn Hydrant
- A Influent Sewer
- B Raw Sewage
- C Mixed Liquor
- D Effluent
- E Raw Sludge Sewer
- F Recirculation Sludge
- G Digested Sludge
- H Plant Sewer
- I Digested Sludge
- J Waste Sludge
- K SCUM Line
- L Drying Bed Drains
- M Potable Water Supply
- N Chlorine Solution
- O Plant Water
- P Chlorine Tank Drain

Note  
Thrust blocks shall be required at all changes in direction for un-piled pressure lines, and shall be of sufficient size to resist forces developed by test pressures. The Contractor shall include the cost of the thrust blocks in the amount bid for "Item 1, Sewage Treatment Plant."

AS BUILT

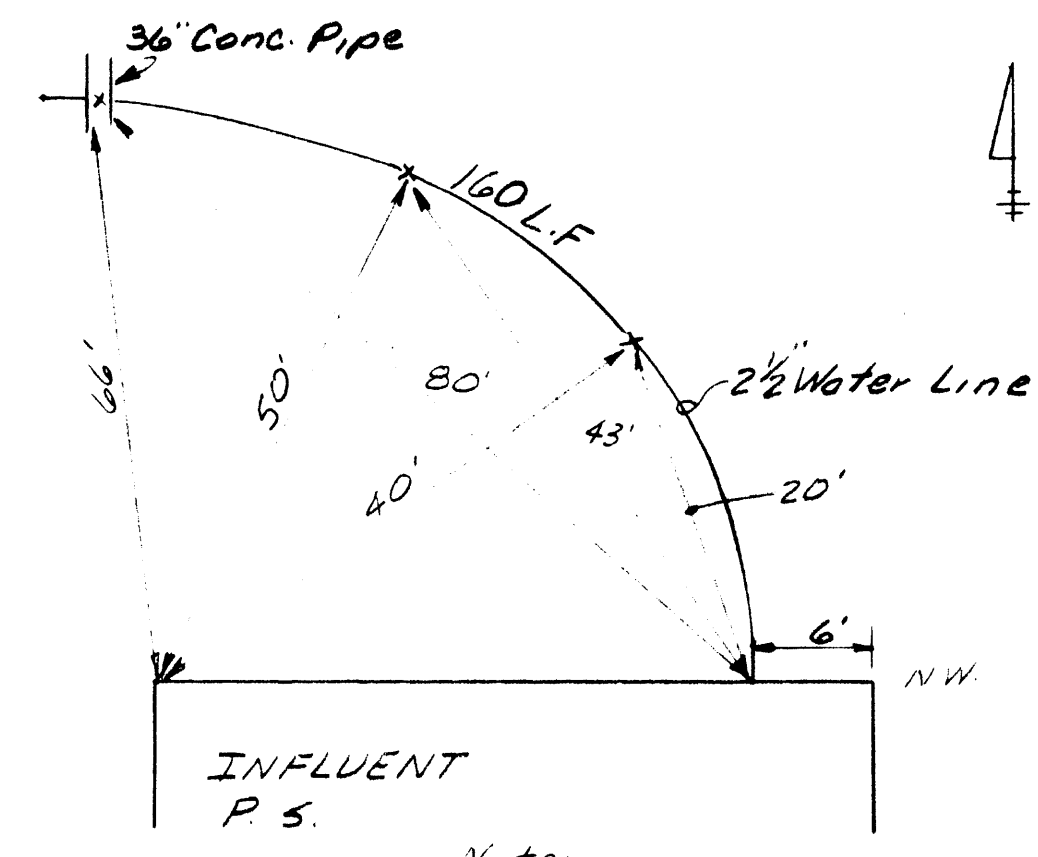


IN CHARGE OF: JDM  
 DESIGNED BY: WJP  
 CHECKED BY: JMB  
 DATE: 7-2-72  
 WJP  
 DATE: 7-2-72

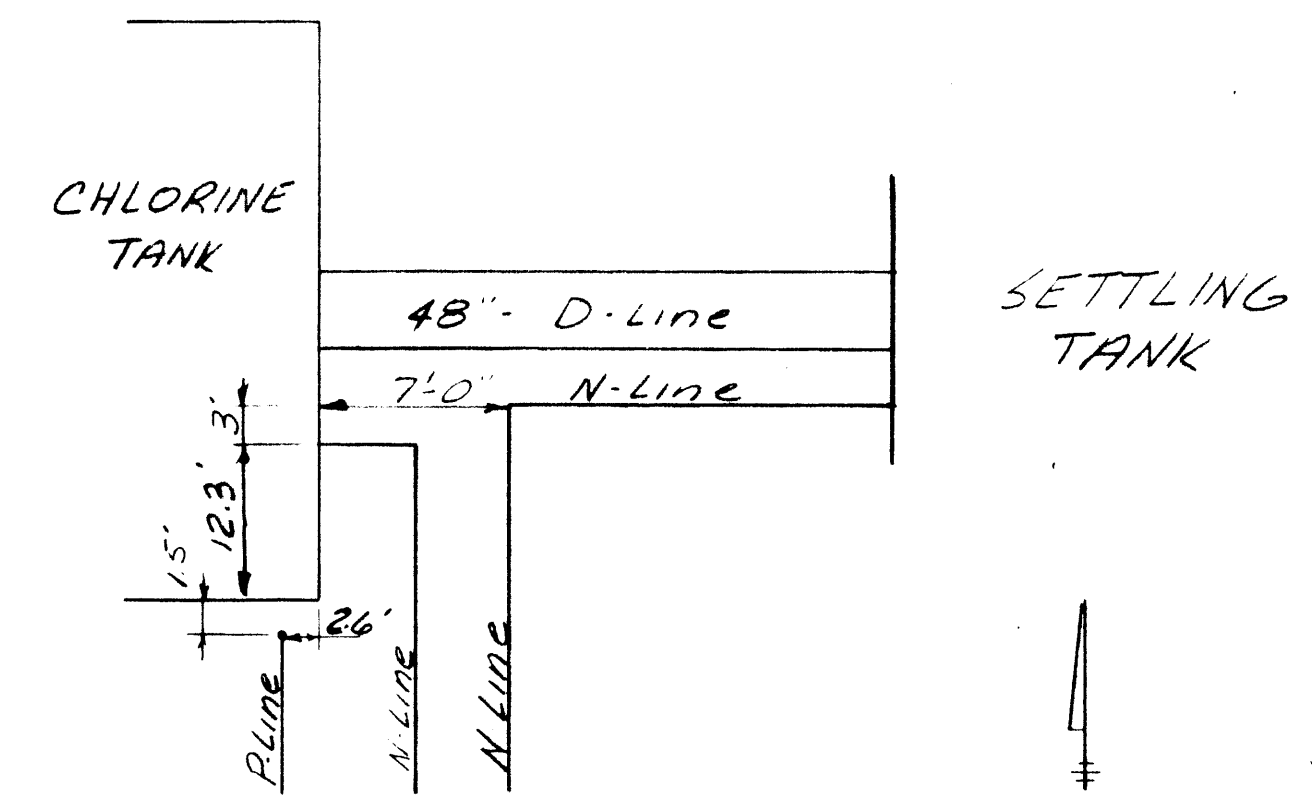
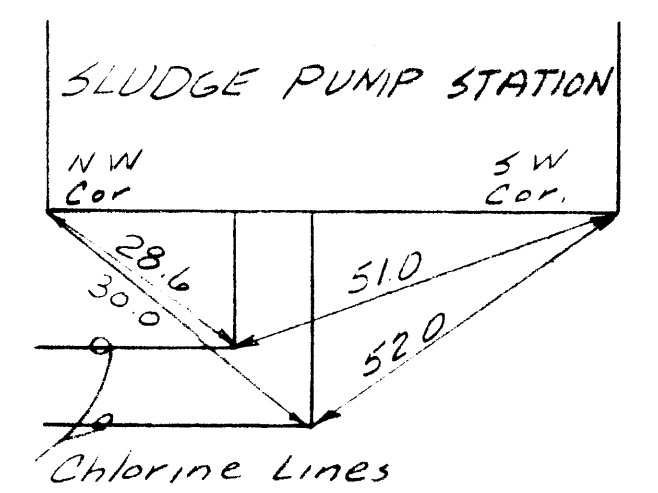
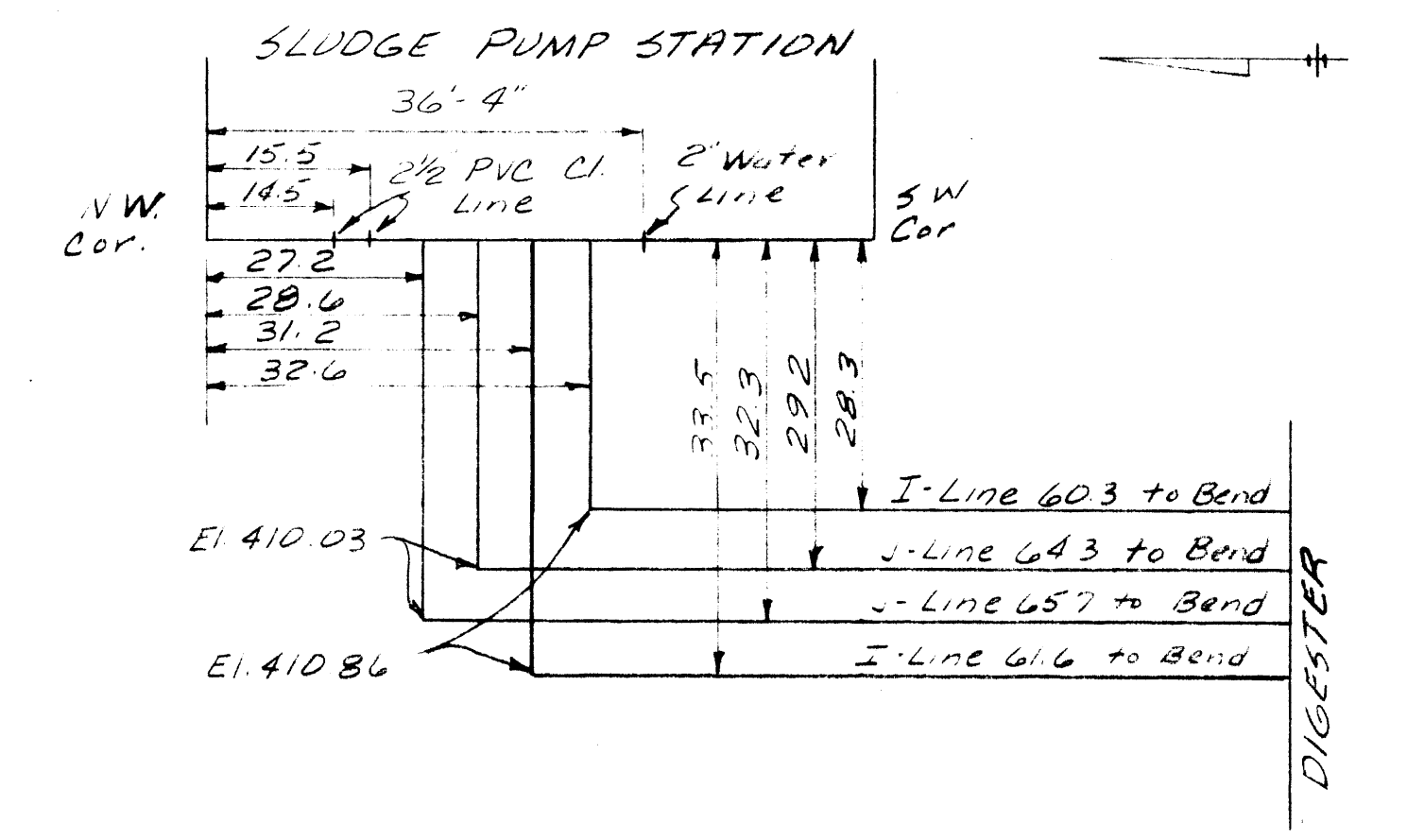
Principal Engineer N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT <b>OUTSIDE PIPING PLAN</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: 1" = 30' FILE NO.: 113.149-82F	





Note:  
 Conc ground Water  
 Pipe @ Crossing with  
 36" Conc Pipe



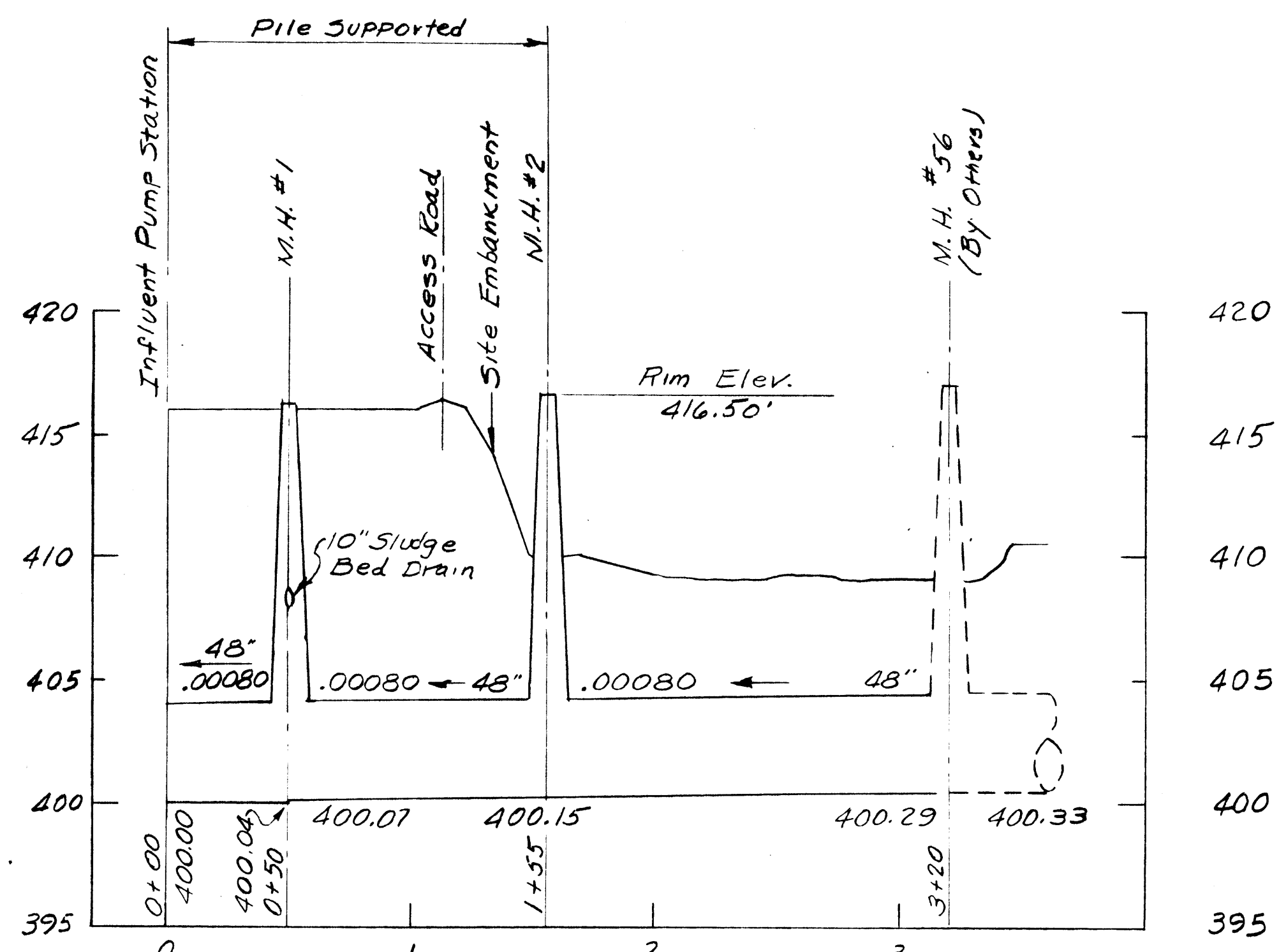
AS BUILT

JF 33/  
 JMB 7-7-72  
 JMB 7-7-72  
 WJP 7-7-72

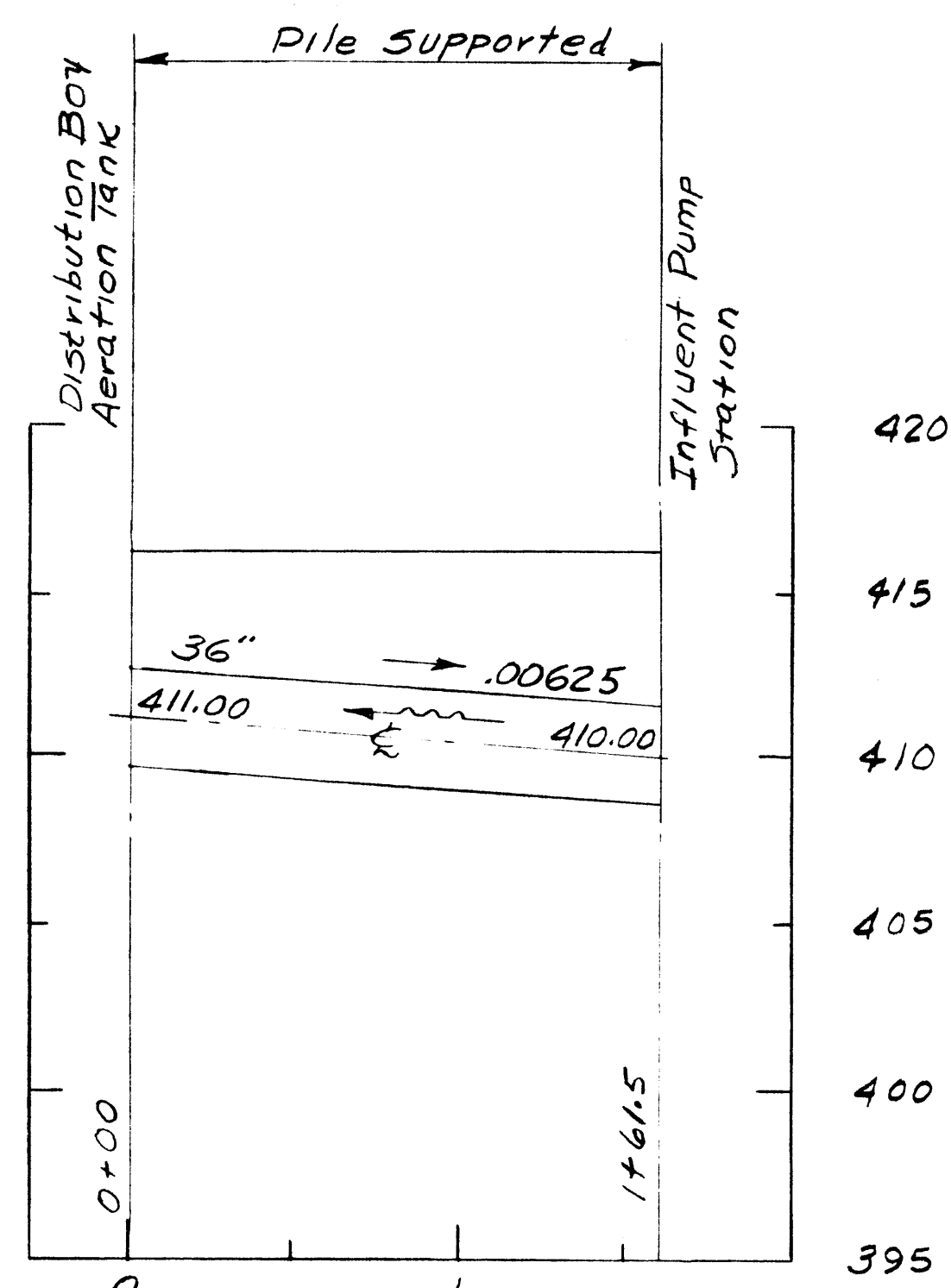
IN CHARGE OF: WJP  
 DESIGNED BY: JMB  
 MADE BY: JMB  
 CHECKED BY: EJA

*WJP*  
 PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 42743

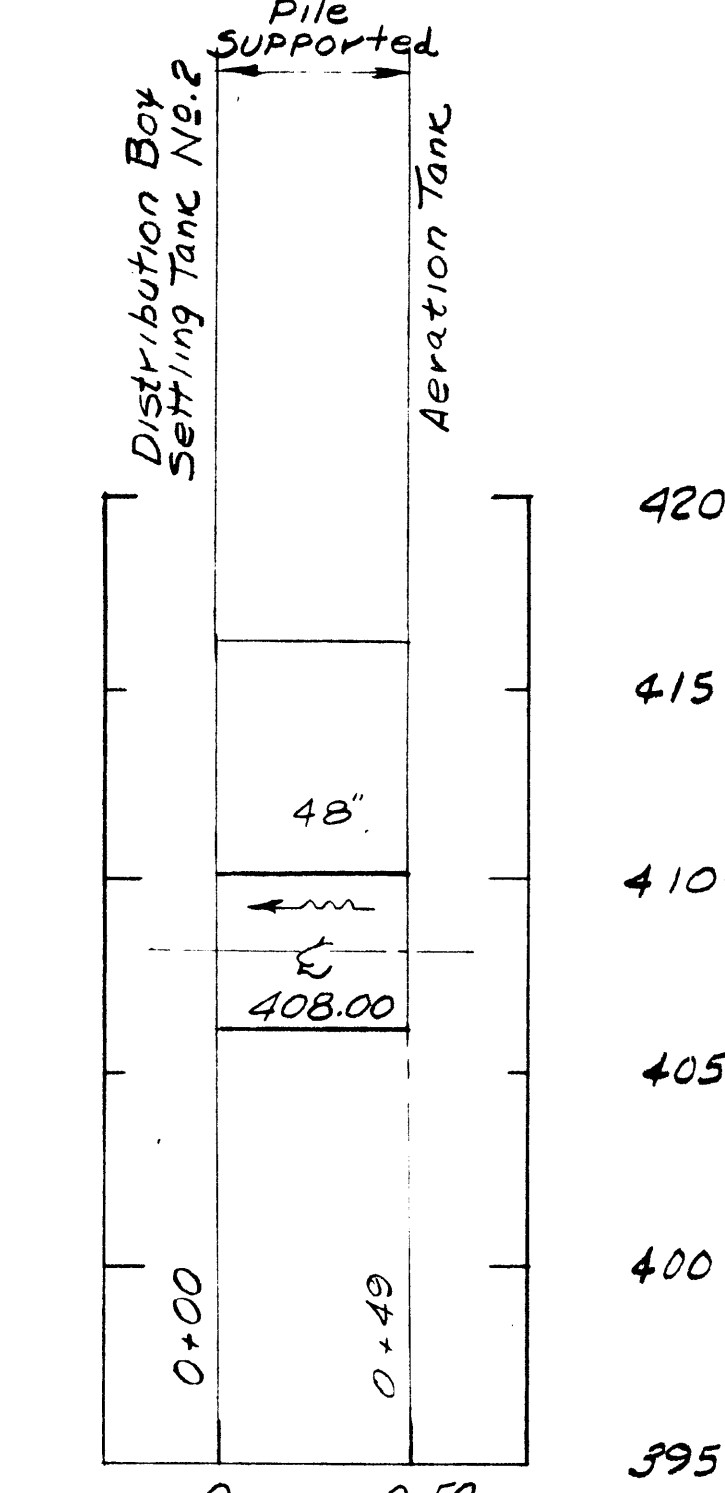
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT <b>OUTSIDE PIPING TIES</b>		
O'BRIEN & GERE ENGINEERS, INC. SYRACUSE, NEW YORK		
DATE: JULY 7, 1972 SCALE: AS SHOWN FILE NO.: 115.149	REVISIONS 01 7/7/72	G-8A



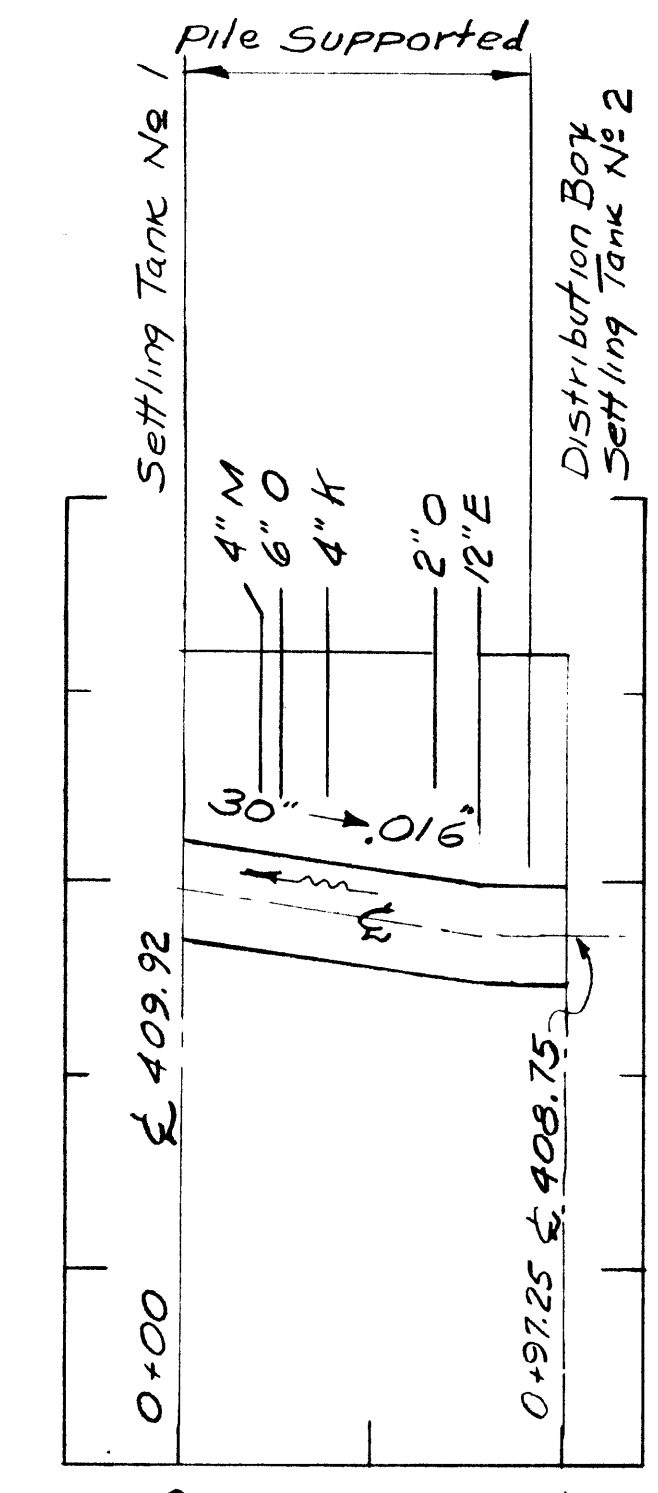
**INFLUENT SEWER**  
Influent Pump Station to Existing Manhole



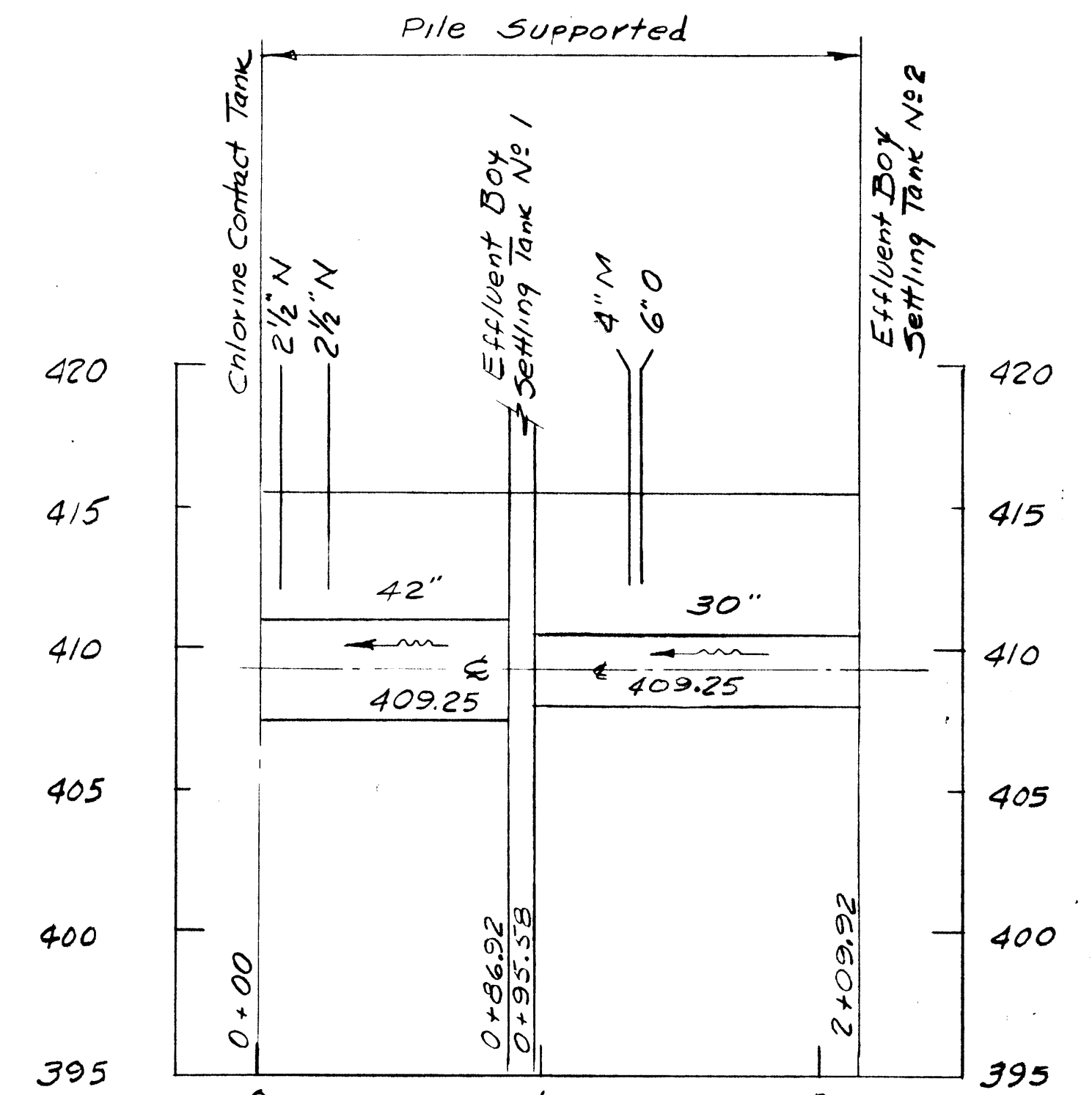
**RAW SEWAGE LINE**  
Influent Pump Station to Aeration Distribution Box



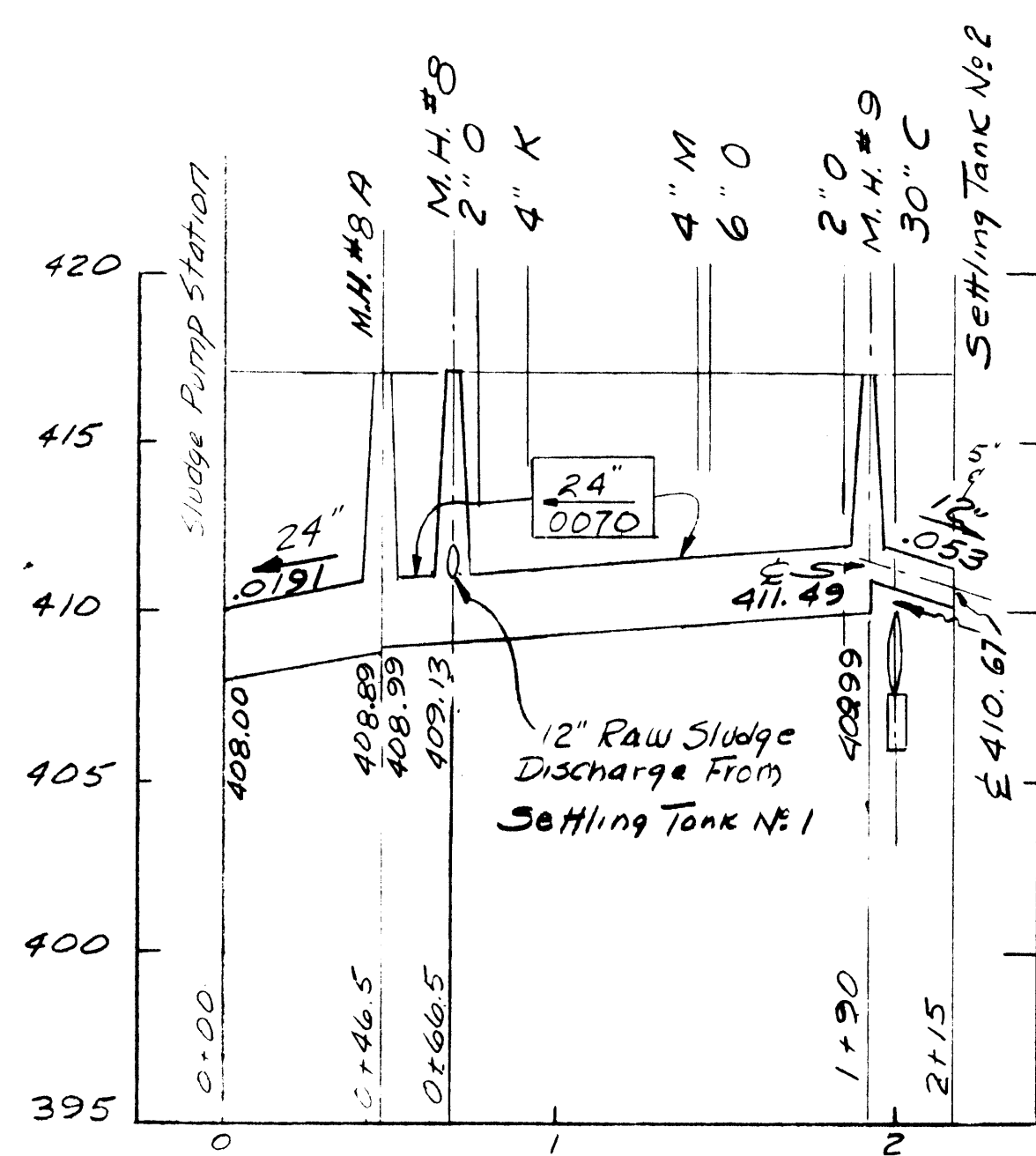
**MIXED LIQUOR**  
Aeration Tank To Settling Tank No 2



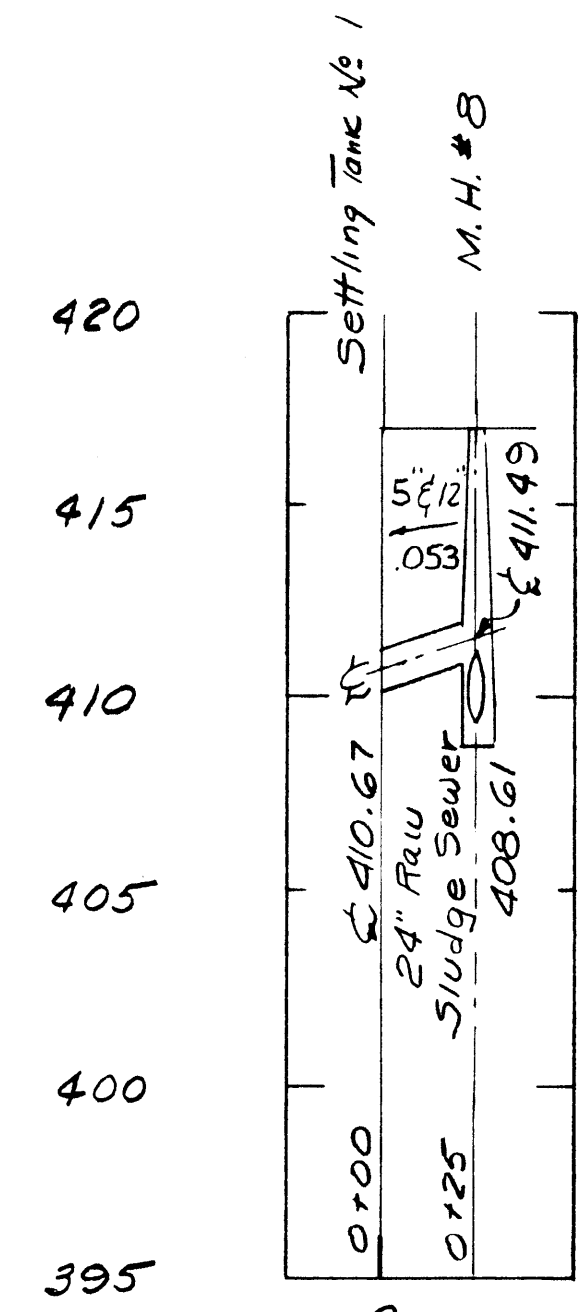
**MIXED LIQUOR**  
Settling Tank No 2 To Settling Tank No 1



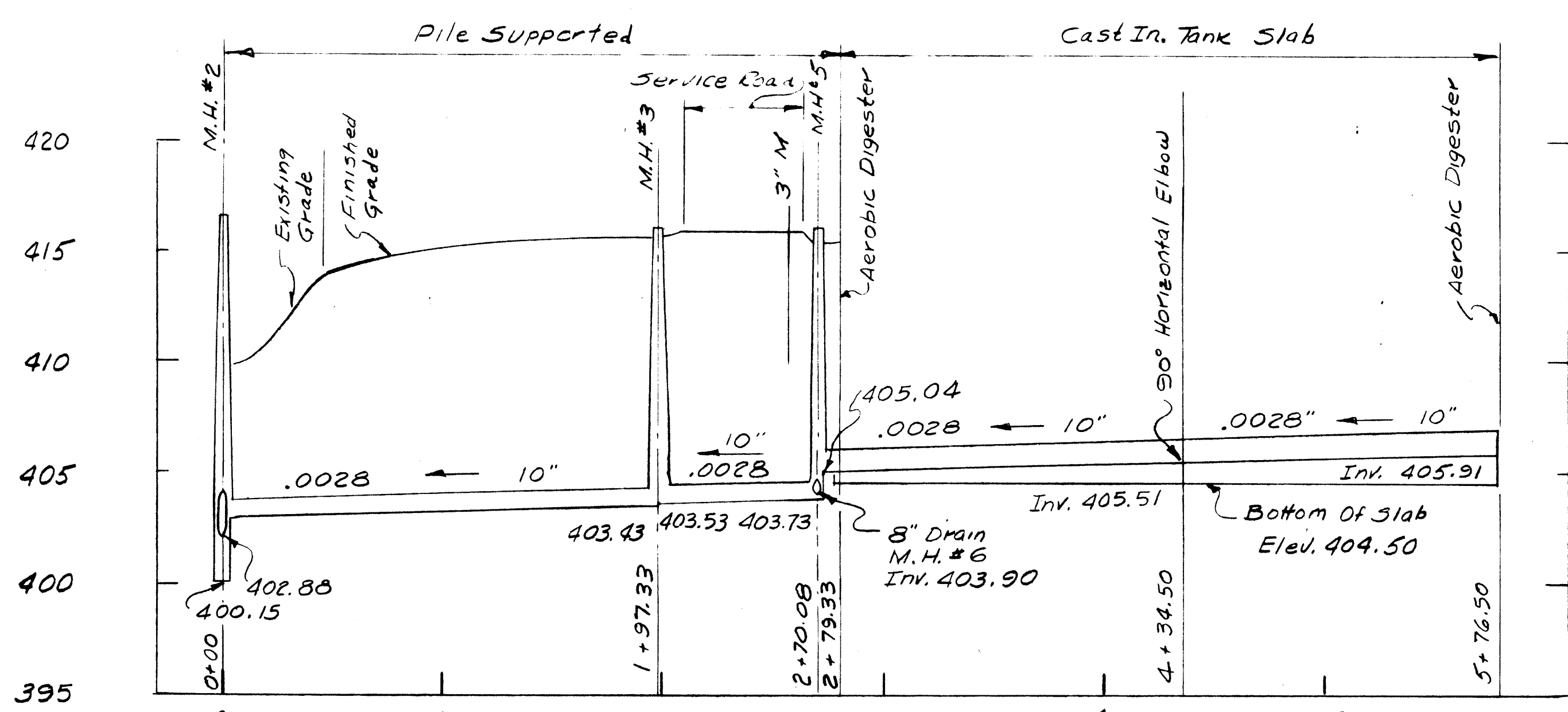
**EFFLUENT**  
Settling Tank No 2 To Chlorine Contact Tank



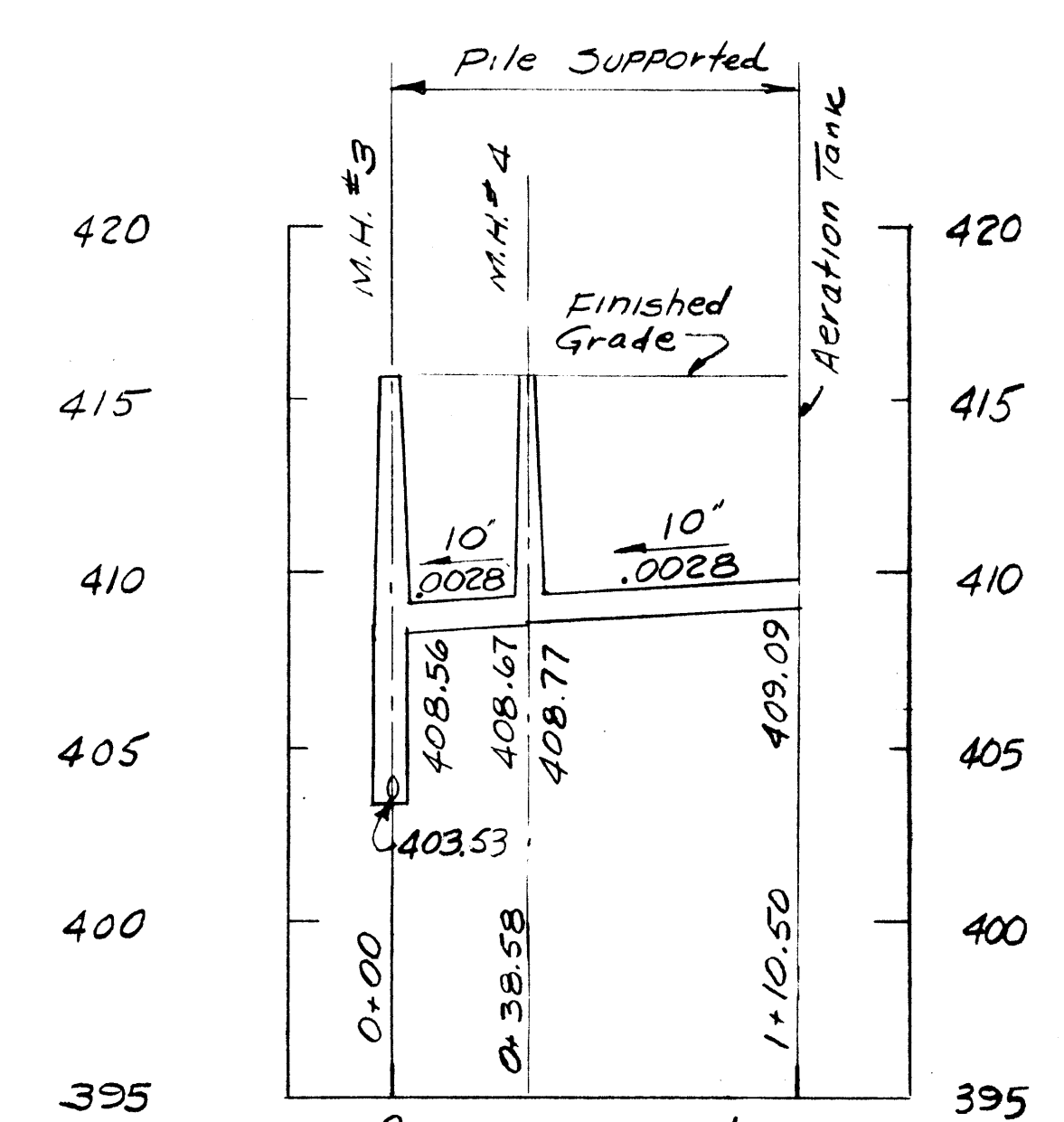
**RAW SLUDGE SEWER**  
Settling Tank No 2 To Sludge Pump Sta.



**RAW SLUDGE SEWER**  
Settling Tank No 1 To M.H. # 8



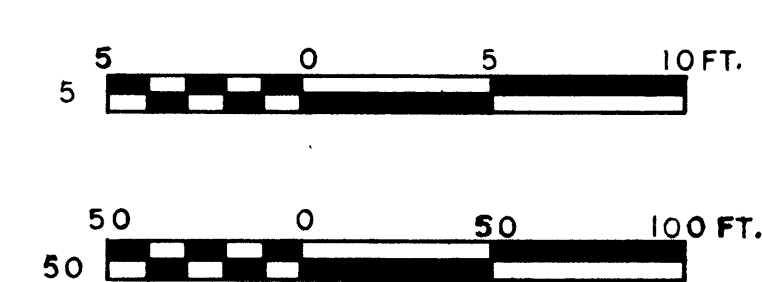
**PLANT SEWER**  
Manhole No 2 To Digester Wall



**PLANT SEWER**  
Manhole No 2 To Aeration Tank Wall

- LEGEND**
- A Influent Sewer
  - B Raw Sewage
  - C Mixed Liquor
  - D Effluent
  - E Raw Sludge Sewer
  - F Recirculation Sludge
  - G Digested Sludge
  - H Plant Sewer
  - I Digested Sludge
  - J Wasted Sludge
  - K Scum Line
  - L Drying Bed Drains
  - M Potable Water Supply
  - N Chlorine Solution
  - O Plant Water
  - P Chlorine Tank Drain

Scales: Horizontal 1" = 50'  
Vertical 1" = 5'



AS BUILT

IN CHARGE OF: J.D.M.  
DESIGNED BY: W.J.P.  
MADE BY: C.J.C.  
CHECKED BY: J.D.M.

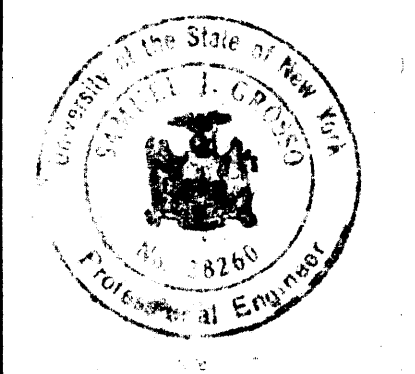
PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT

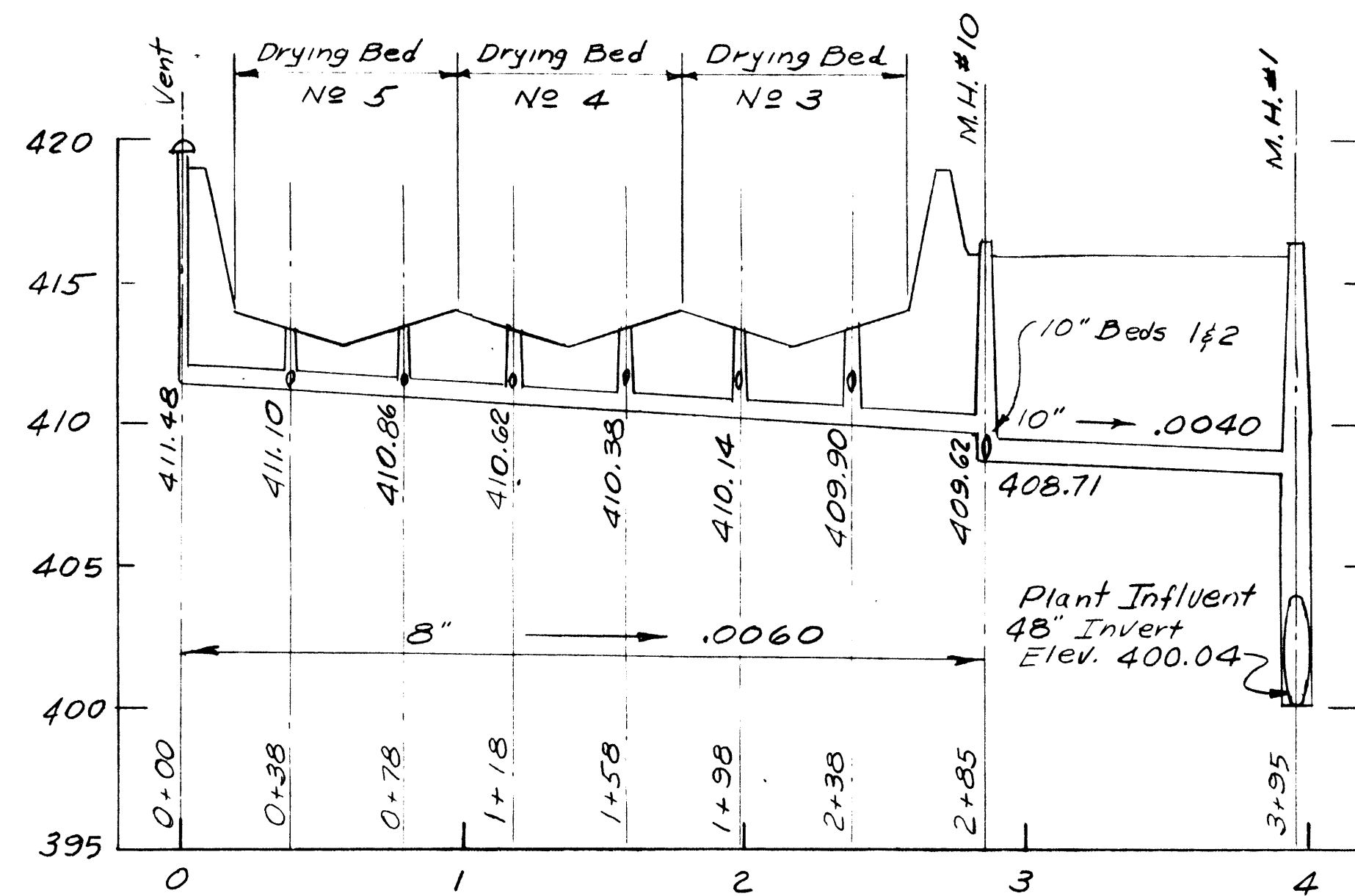
**OUTSIDE PIPING PROFILES**

O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
SYRACUSE, NEW YORK

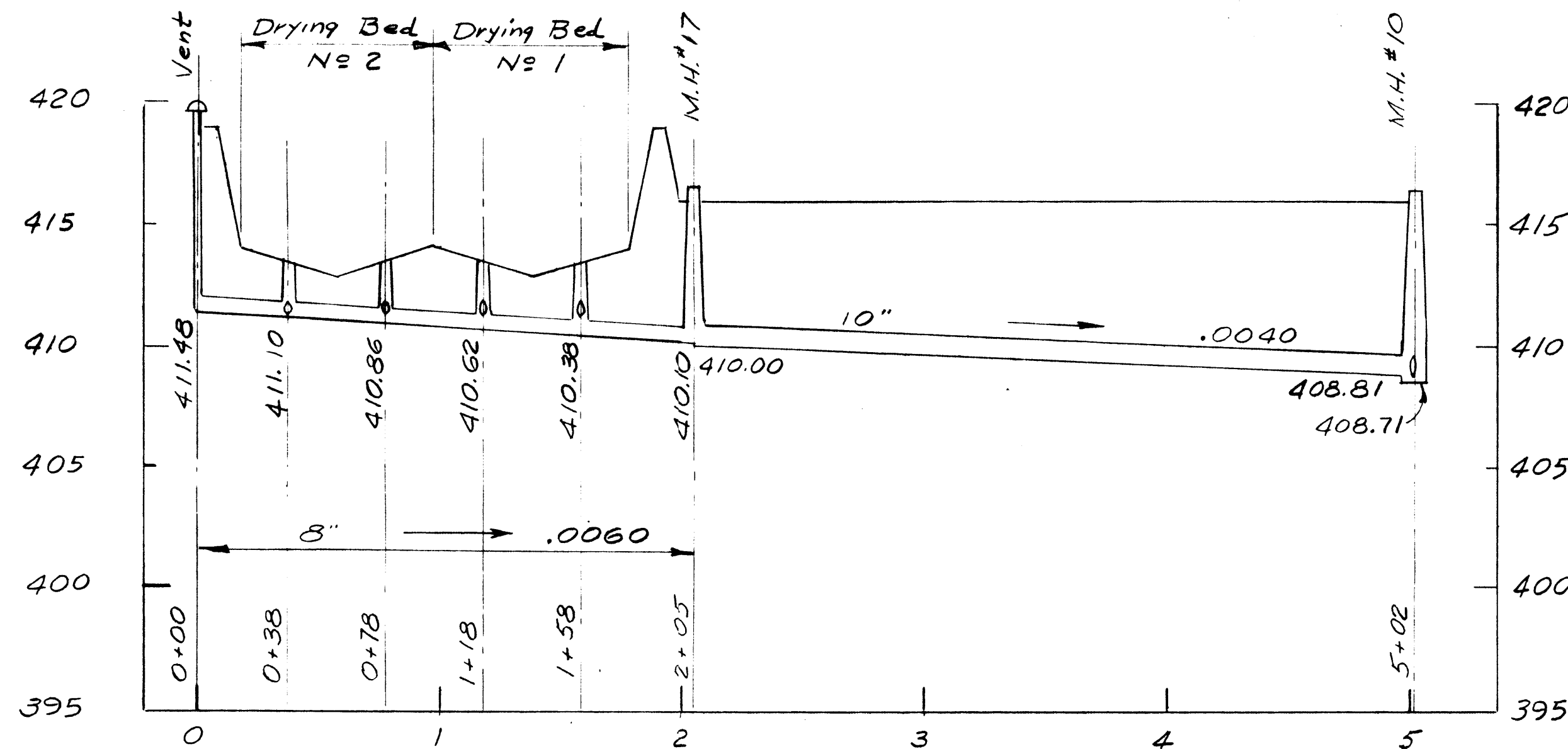
DATE: FEBRUARY 14, 1968  
SCALE: AS SHOWN  
FILE NO.: 115.149-83F



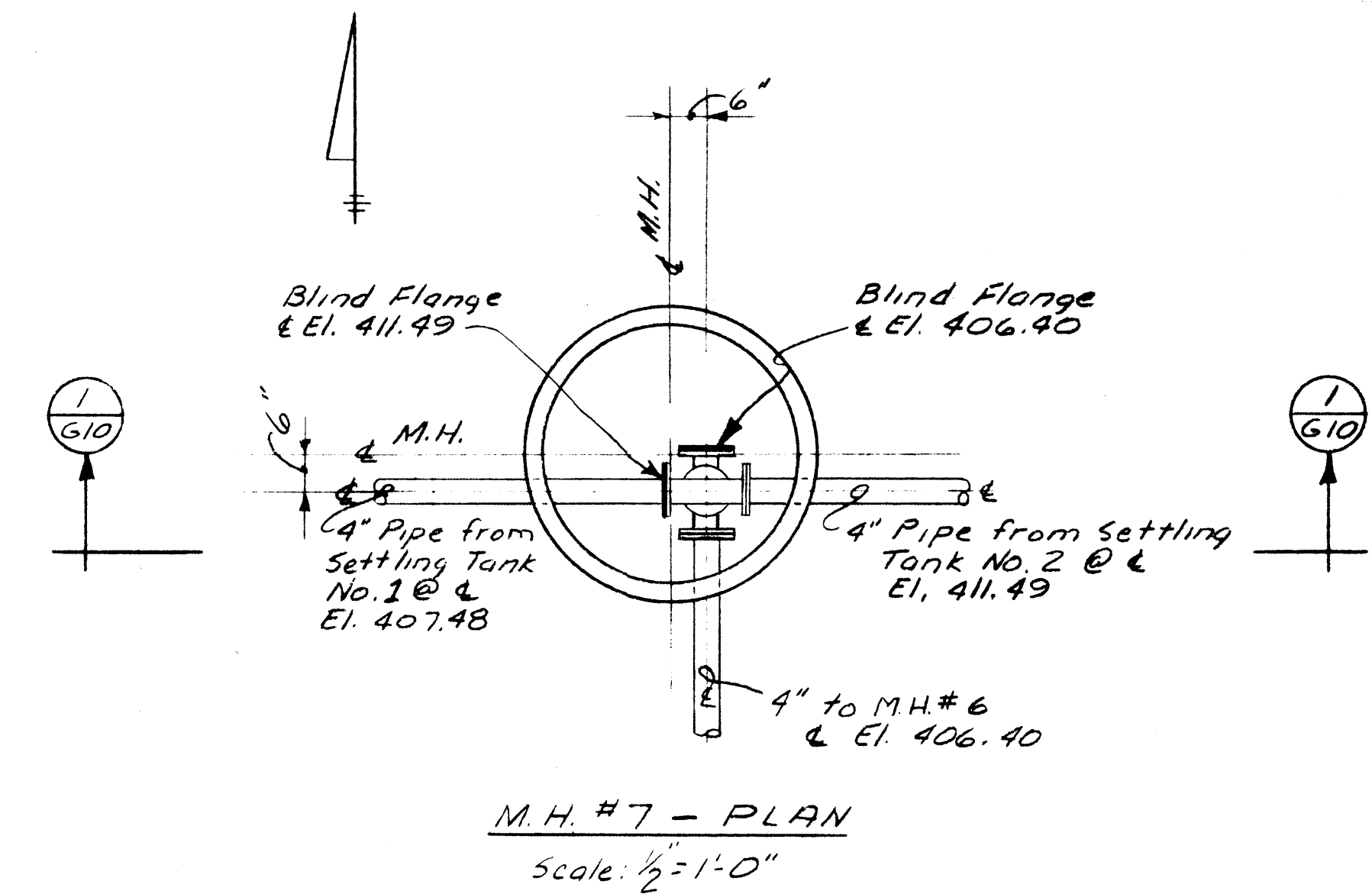
G-9



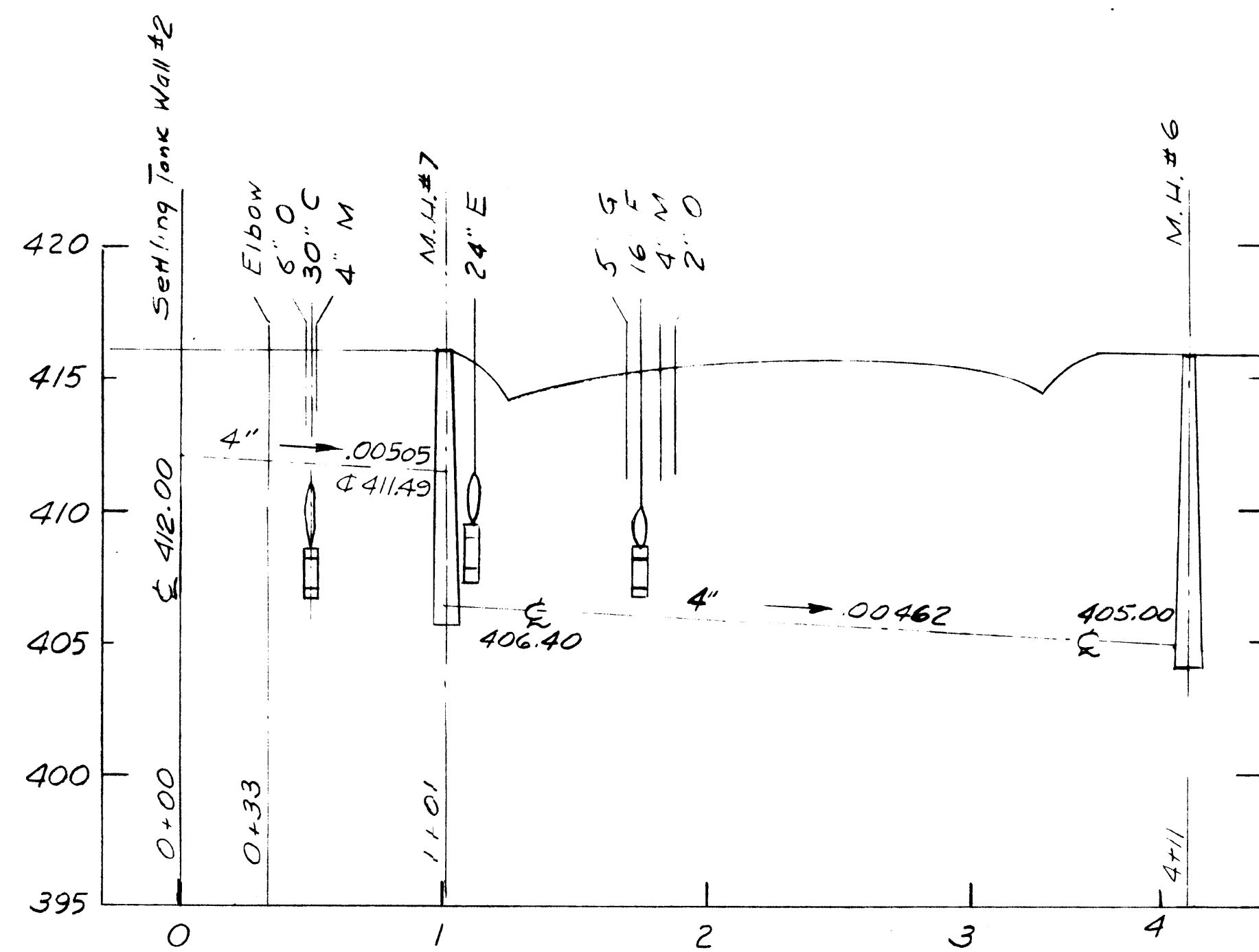
SLUDGE DRYING BED DRAINS  
Bed No. 5 To M.H. No. 1



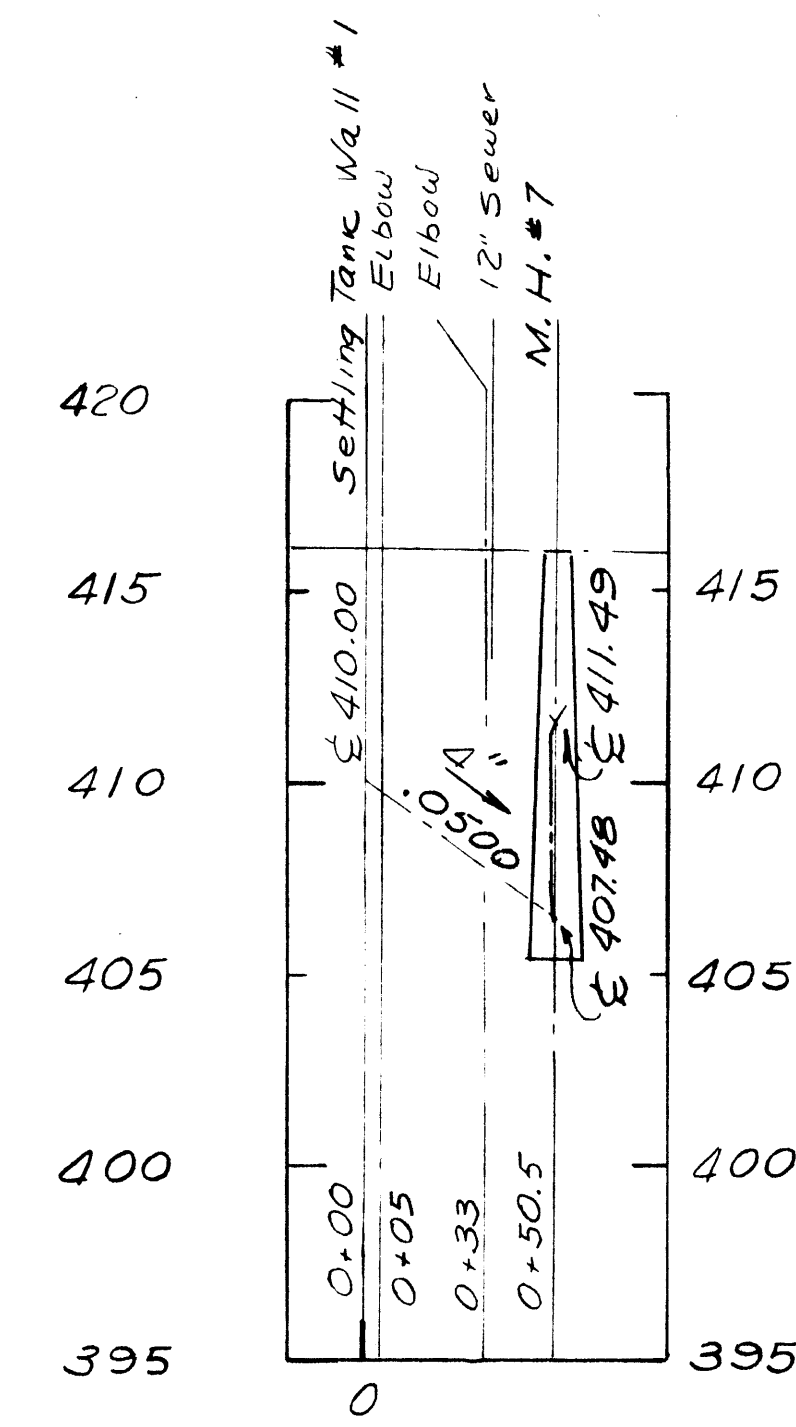
SLUDGE DRYING BED DRAINS  
Bed No. 2 To M.H. No. 10



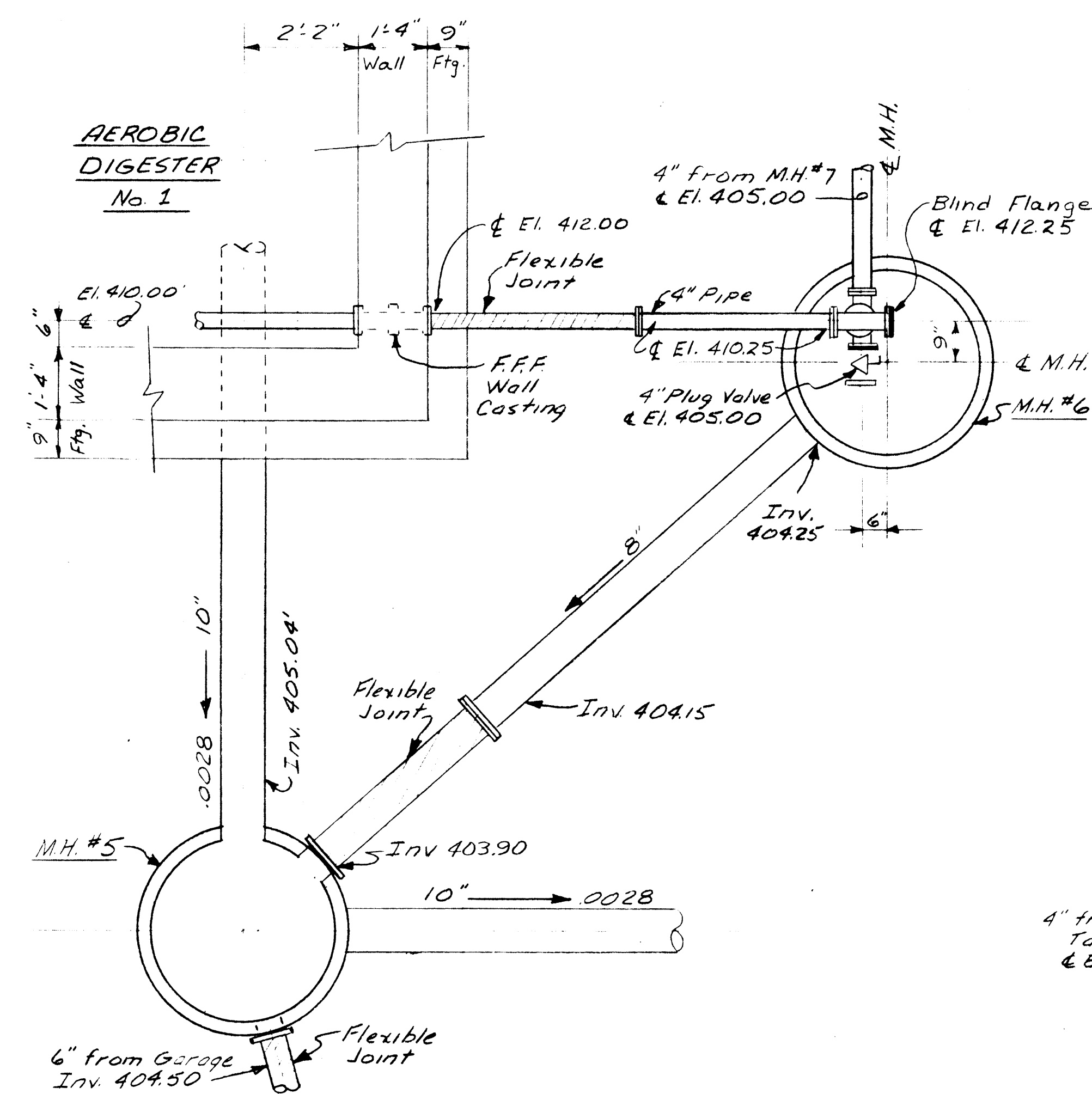
M.H. #7 - PLAN  
Scale: 1/2" = 1'-0"



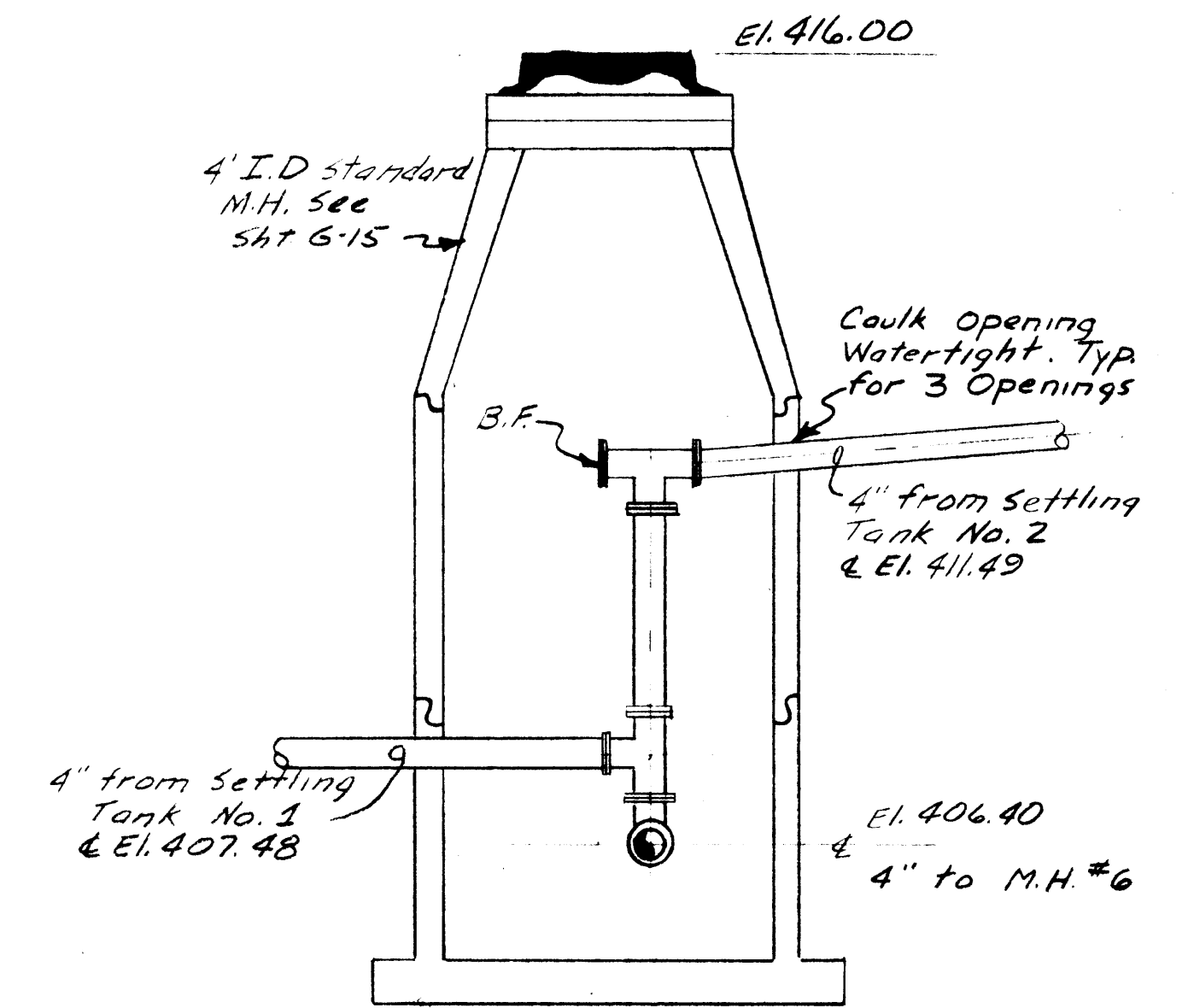
SCUM LINE  
Settling Tank No. 2 To Manhole No. 5



SCUM LINE  
Settling Tank No. 2 To Manhole No. 7



M.H. #5 & #6 PLAN  
Scale: 1/2" = 1'-0"



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

LEGEND

- C Mixed Liquor
- F Recirculating Sludge
- G Digested Sludge
- X Scum Line
- L Drying Bed Drains
- M Potable Water Supply
- O Plant Water

Scale: Horizontal: 1" = 50'  
Vertical: 1" = 5'



AS BUILT

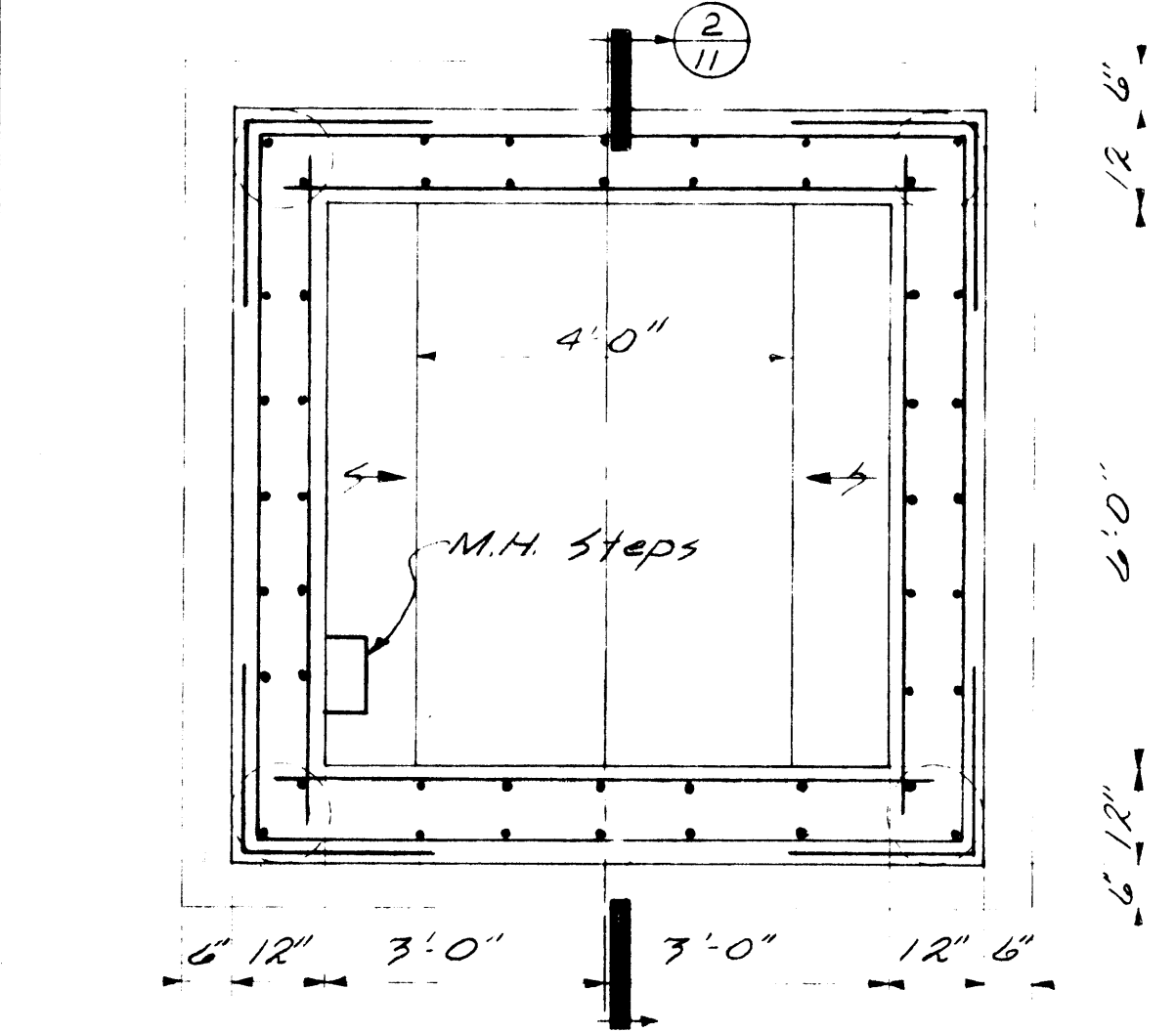
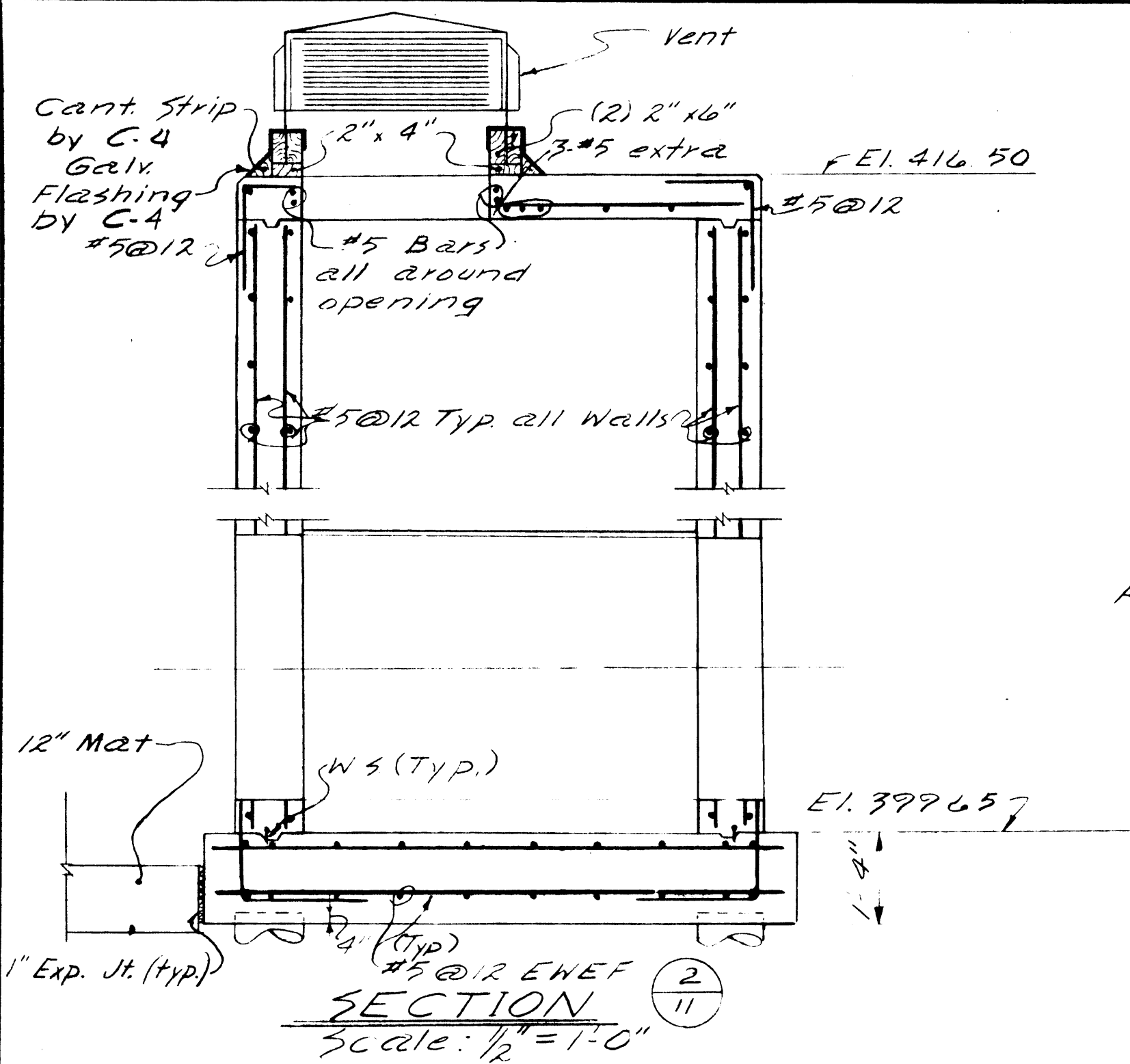
IN CHARGE OF: J. D. M.  
DESIGNED BY: G. A. C.  
MADE BY: C. J. C.  
CHECKED BY: J. D. M.

Principal Engineer  
N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT <b>OUTSIDE PIPING PROFILES</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: AS SHOWN FILE NO: 115.149-84F	

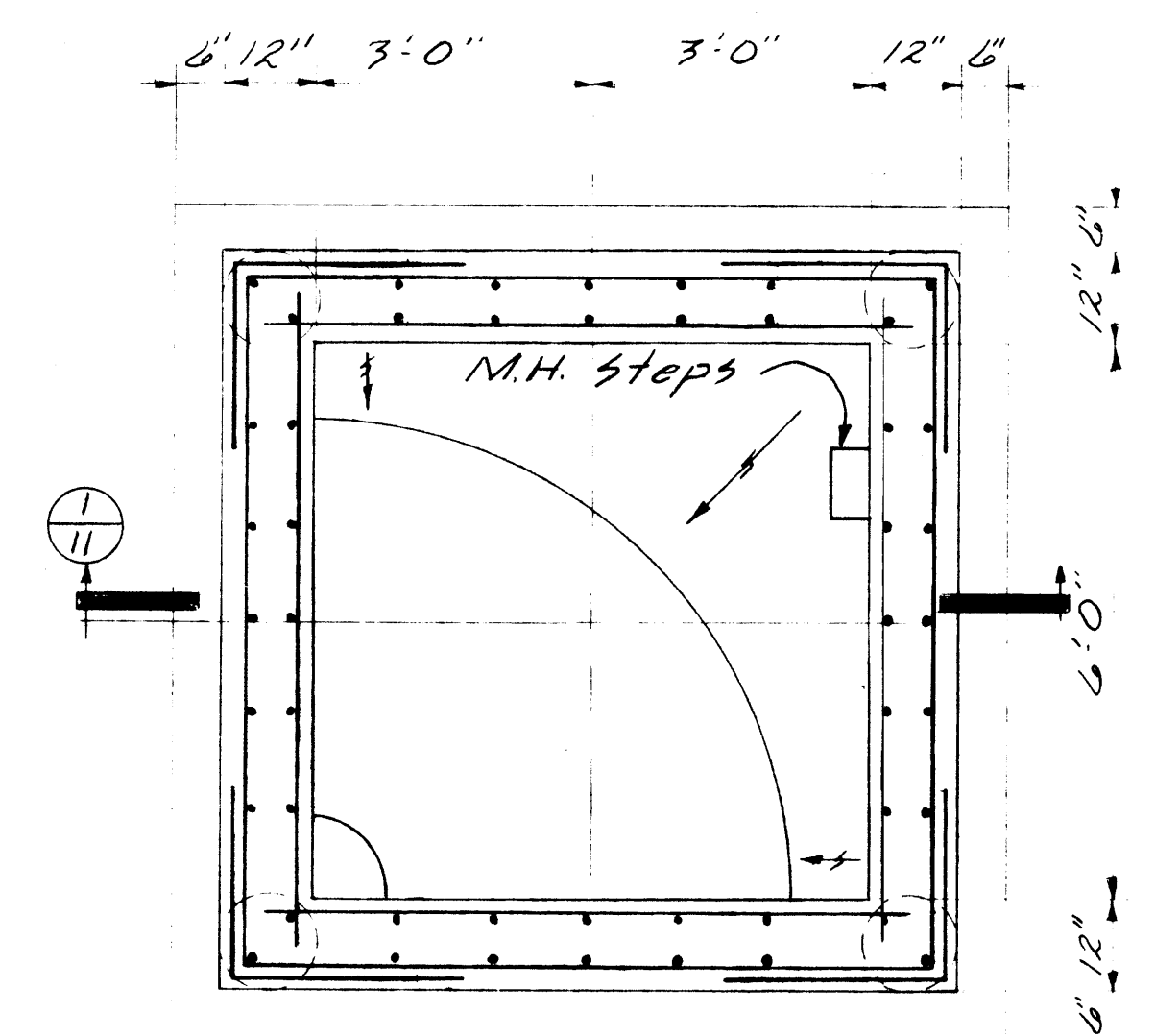
G-10





M.H. 2 PLAN @ EL. 414.00  
Scale: 1/2" = 1'-0"

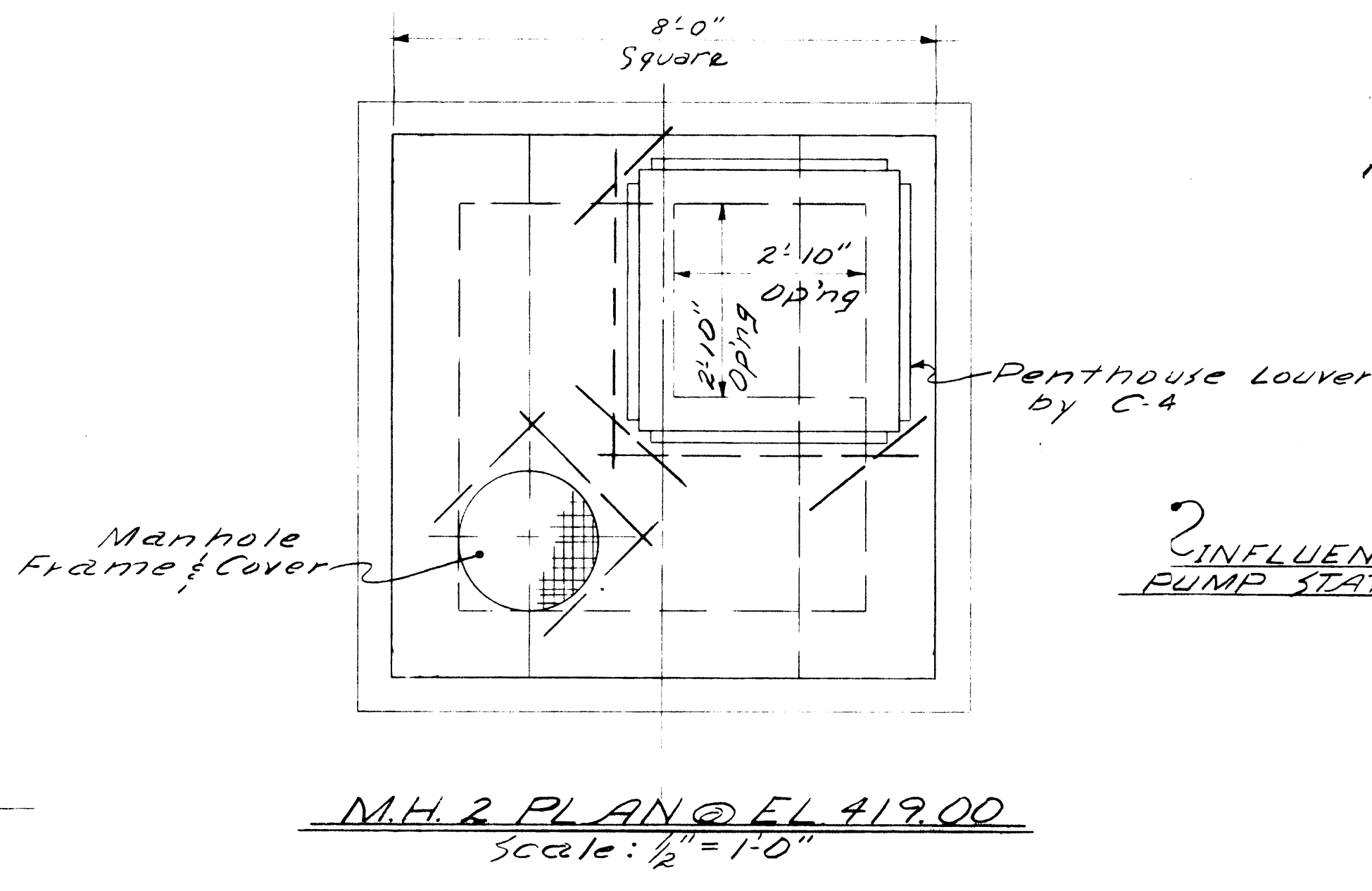
NOTE: All Wall Steel #5@12



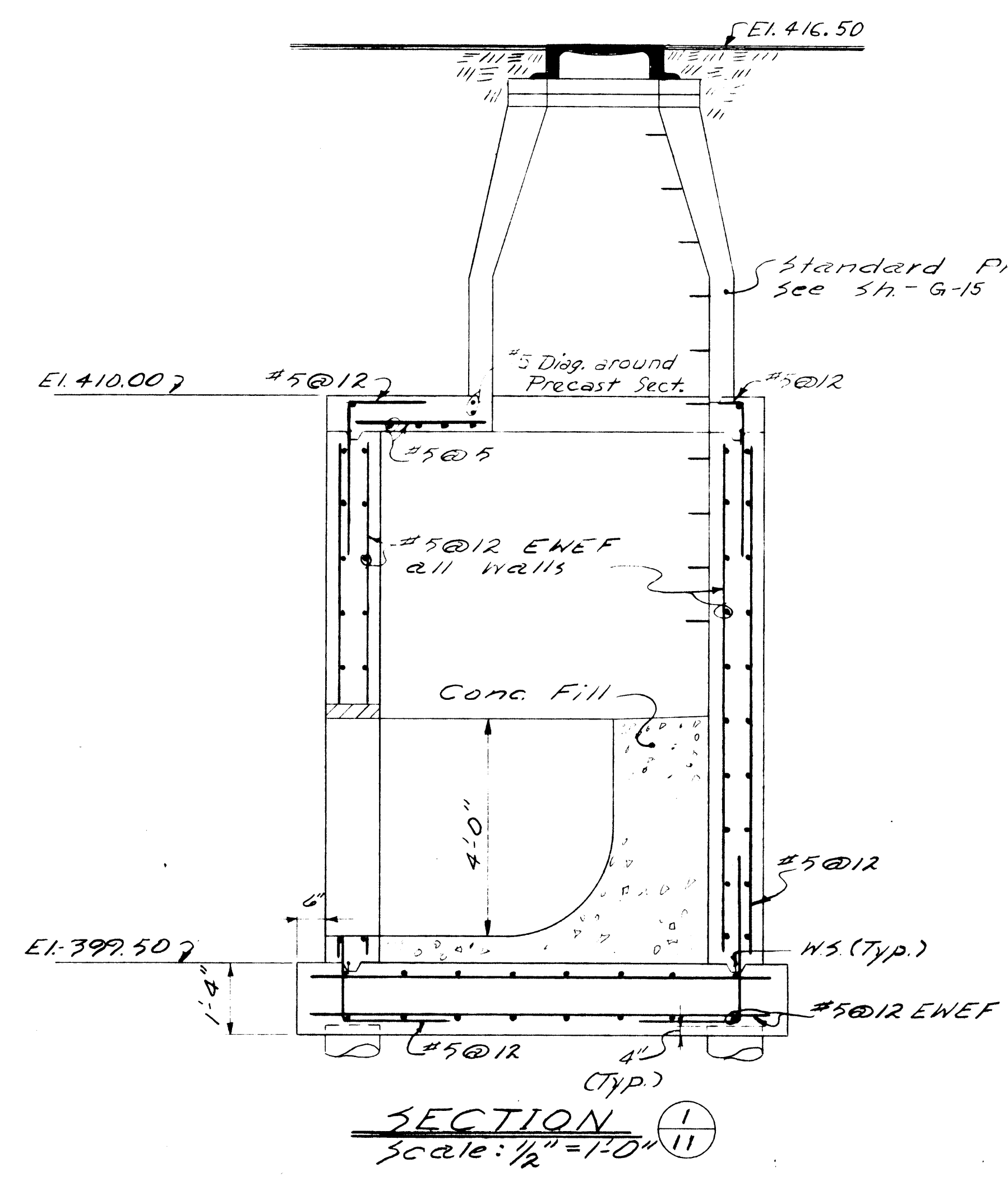
M.H. 1 PLAN @ EL. 414.00  
Scale: 1/2" = 1'-0"

IN CHARGE OF: RKM  
DESIGNED BY: ELM  
MADE BY: GPV  
CHECKED BY: JDM

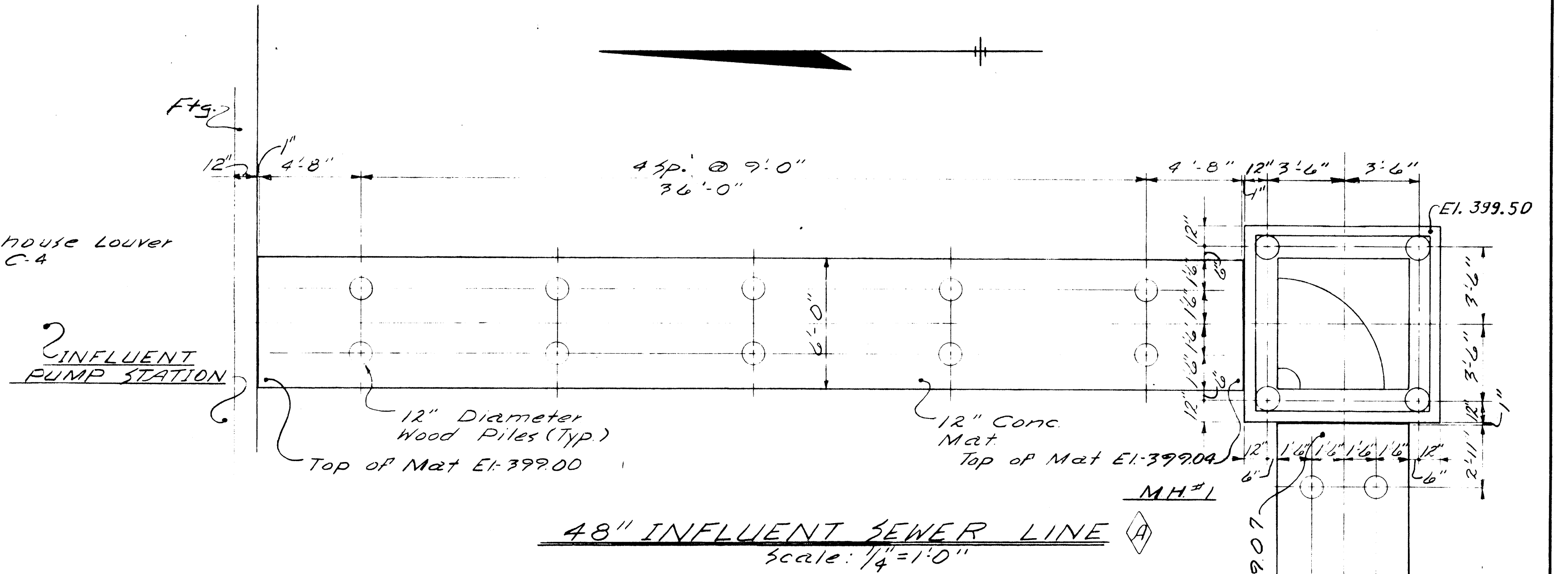
JF 33/  
JMB 7-7-72  
WJP 7-7-72



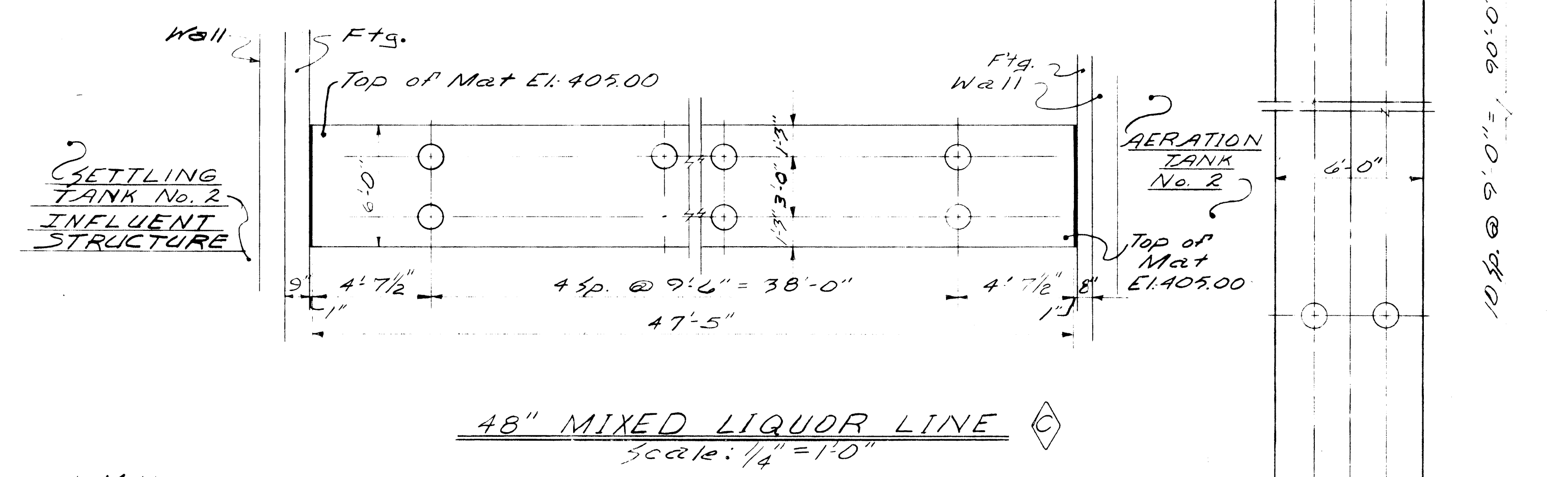
M.H. 2 PLAN @ EL. 419.00  
Scale: 1/2" = 1'-0"



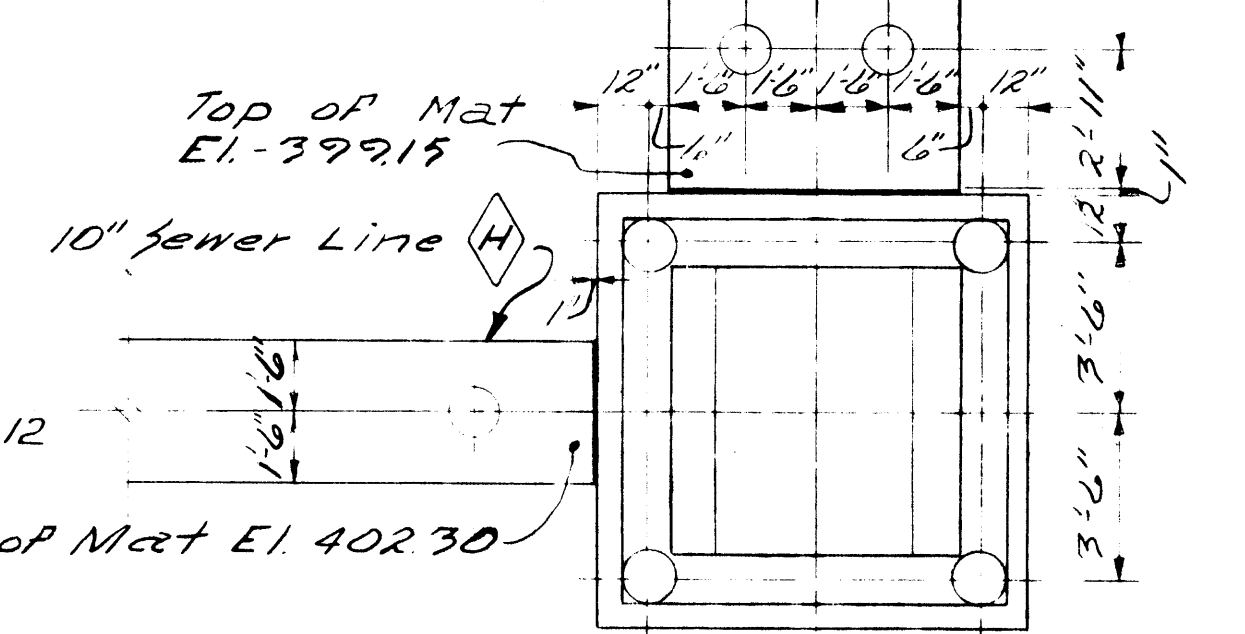
SECTION 1/11  
Scale: 1/2" = 1'-0"



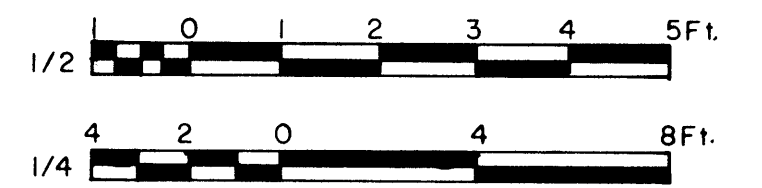
48" INFLUENT SEWER LINE  
Scale: 1/4" = 1'-0"



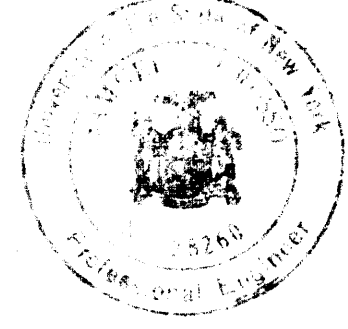
48" MIXED LIQUOR LINE  
Scale: 1/4" = 1'-0"

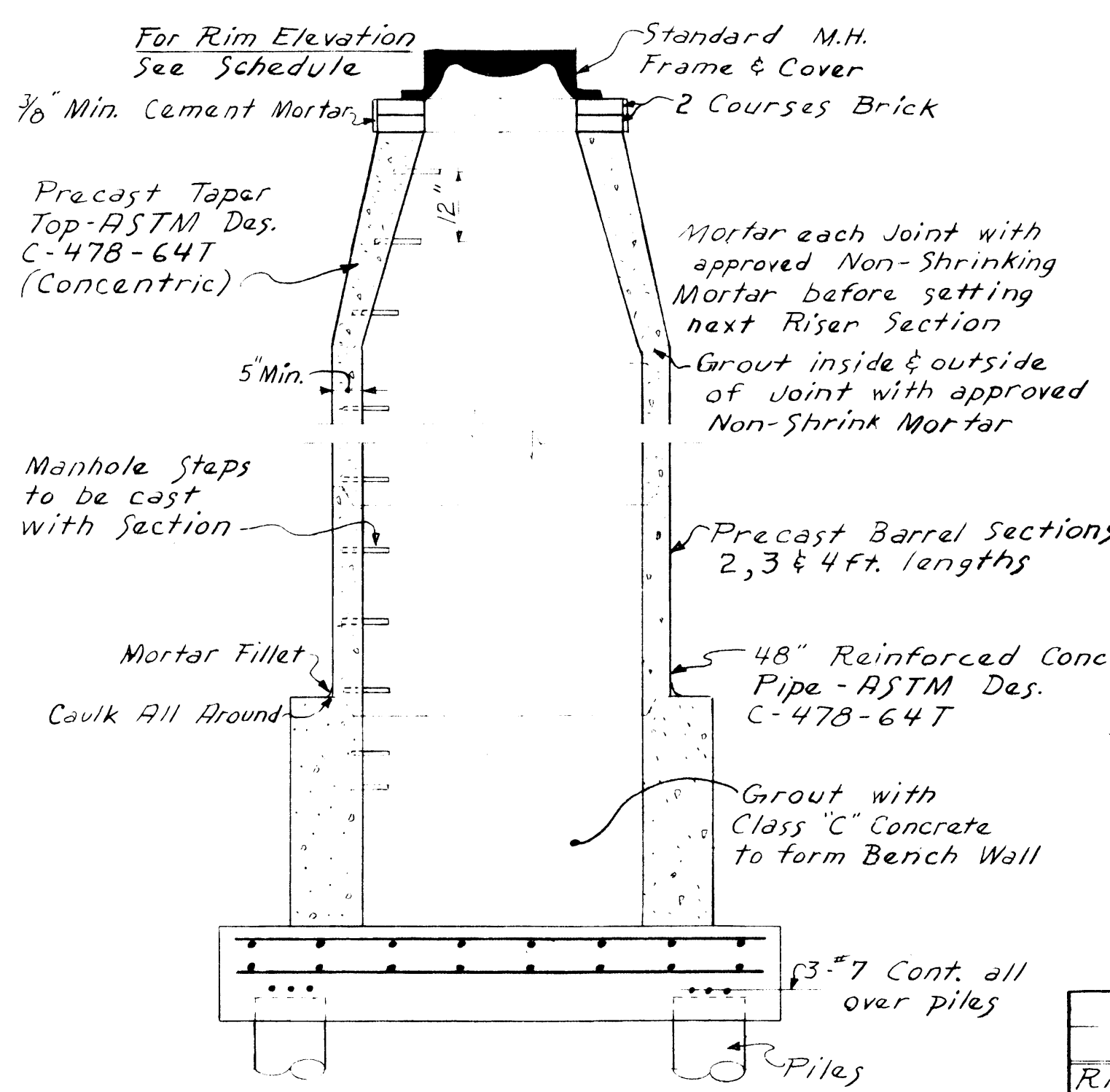
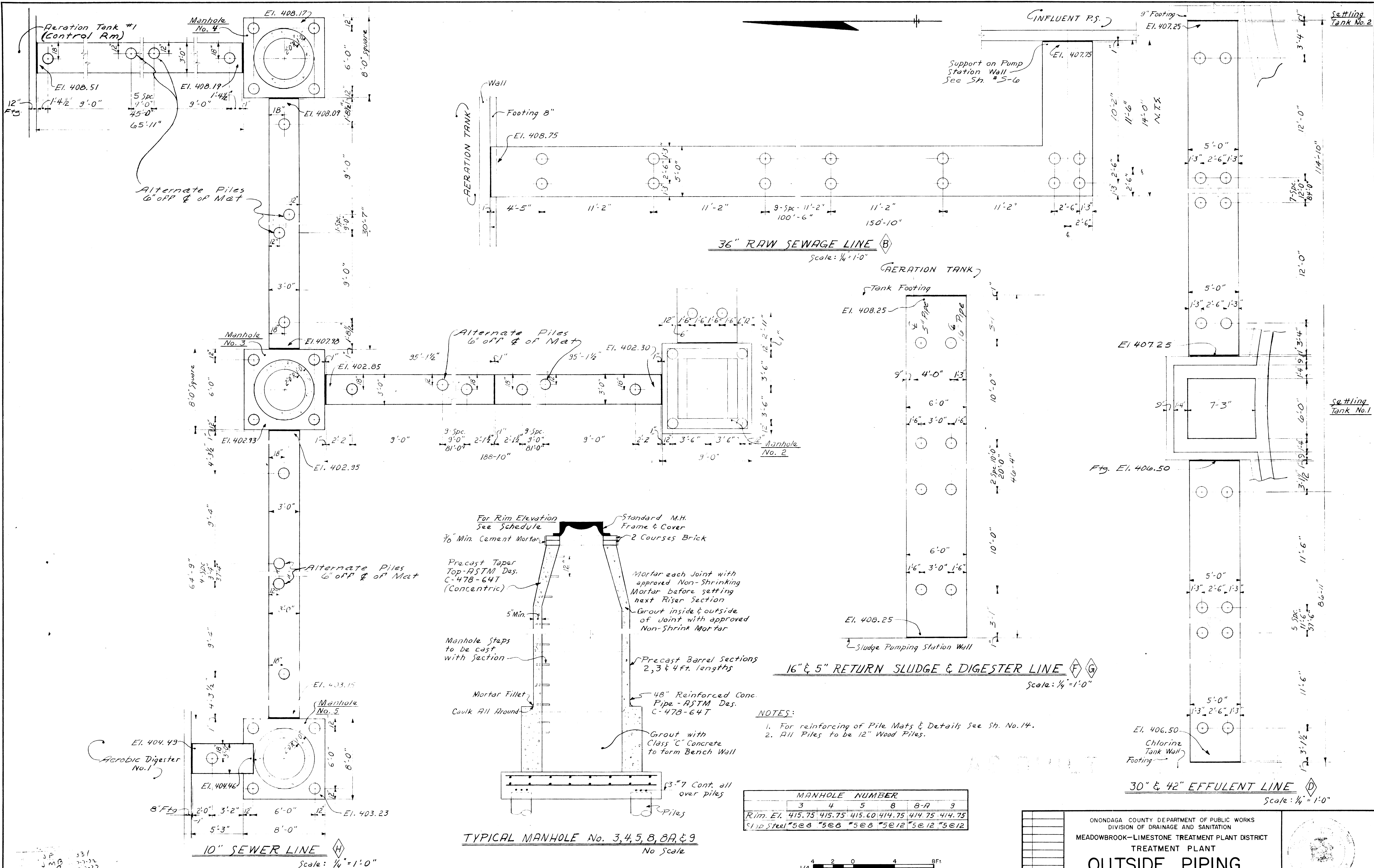


NOTES:  
1. For Reinforcing of Pile Mats & Details see Sh. No. 14.  
2. All Piles to be 12" Wood Piles.



James S. McManis  
PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION		
MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		
<b>OUTSIDE PIPING PILE PLANS</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: AS SHOWN	<b>G-11</b>
AA 7/7/72 A 5/28/69 REVISIONS	FILE NO.: 115.149-85F	



TYPICAL MANHOLE No. 3, 4, 5, 8, 9 & 9  
No Scale

- NOTES:
1. For reinforcing of Pile Mats & Details See Sh. No. 14.
  2. All Piles to be 12" Wood Piles.

MANHOLE NUMBER					
	3	4	5	8	9
Rim. El.	415.75	415.75	415.60	414.75	414.75
110 Steel	5@8	5@8	5@8	5@12	5@12



NOTE: All Elev. Refer to Top of Mat (Slab)

IN CHARGE OF: RKM  
DESIGNED BY: ELM  
MADE BY: COG  
CHECKED BY: JDM

James M. McLean  
PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT

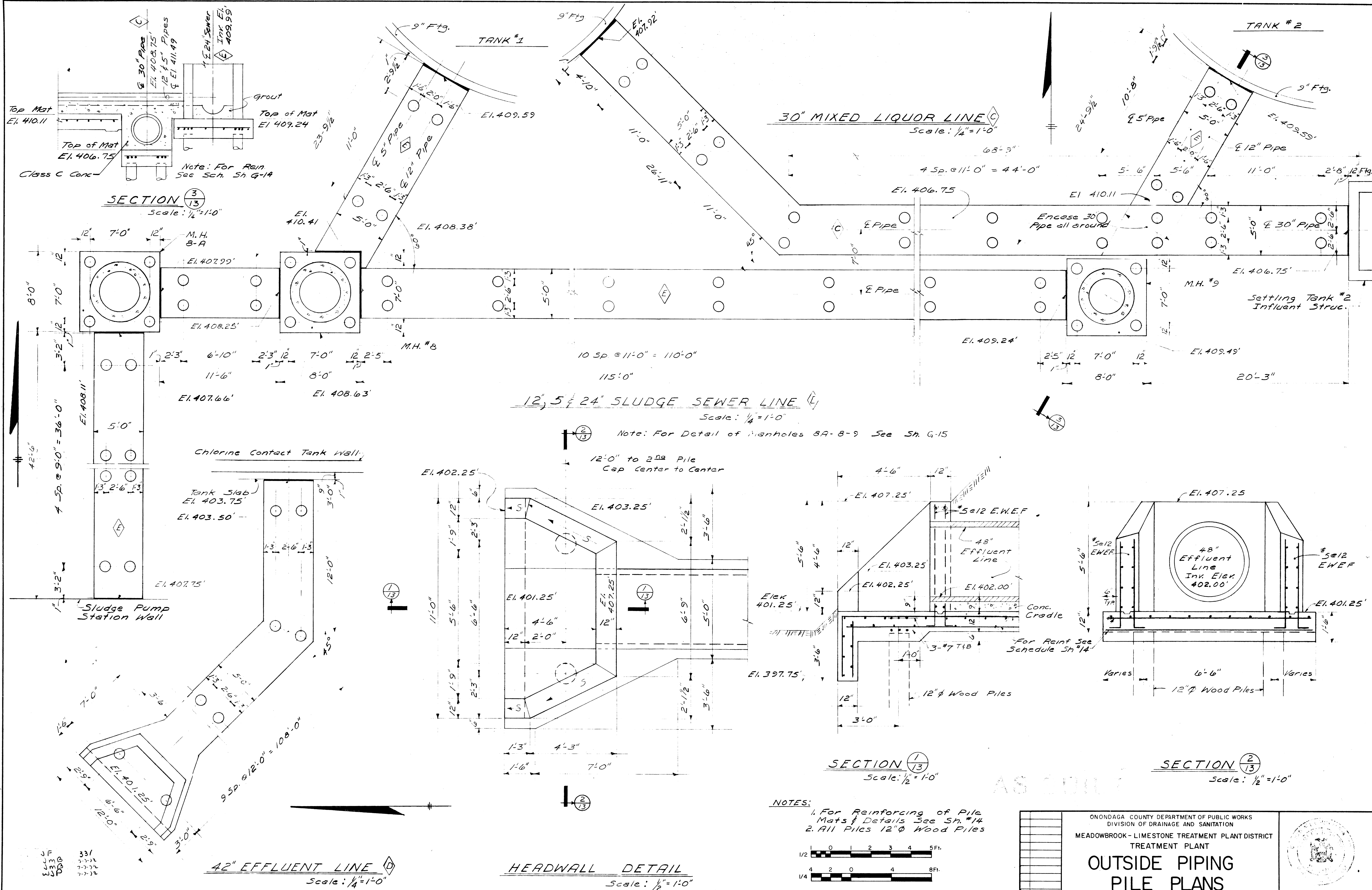
## OUTSIDE PIPING PILE PLANS

O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
SYRACUSE, NEW YORK

DATE: FEBRUARY 14, 1968  
SCALE: 1/4" = 1'-0"  
FILE NO.: 115-149-86F

G-12





**SECTION 3/13**  
Scale: 1/4" = 1'-0"

**12" 5 & 24" SLUDGE SEWER LINE**  
Scale: 1/4" = 1'-0"

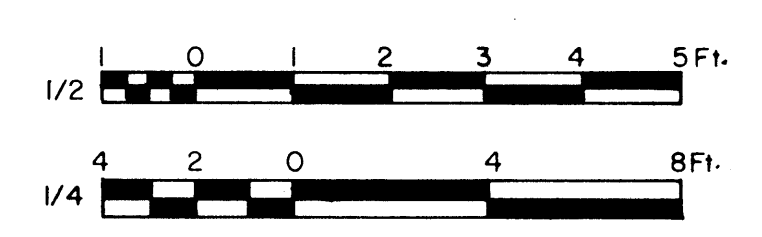
**SECTION 1/13**  
Scale: 1/2" = 1'-0"

**SECTION 2/13**  
Scale: 1/2" = 1'-0"

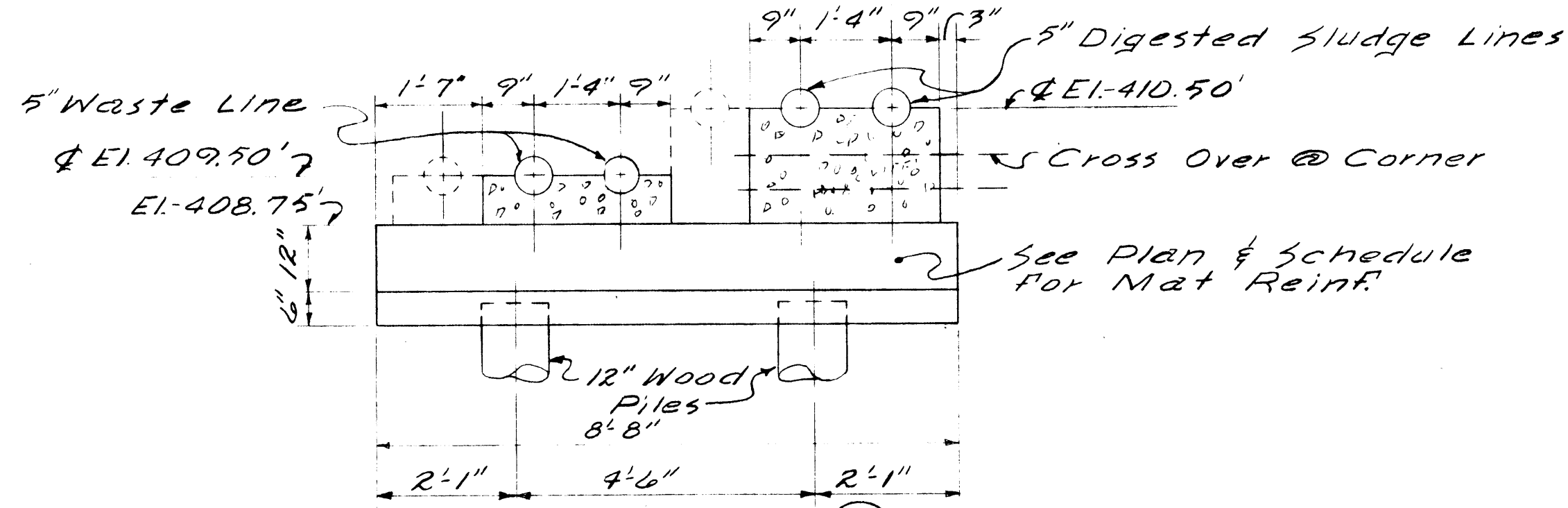
**HEADWALL DETAIL**  
Scale: 1/2" = 1'-0"

**42" EFFLUENT LINE**  
Scale: 1/4" = 1'-0"

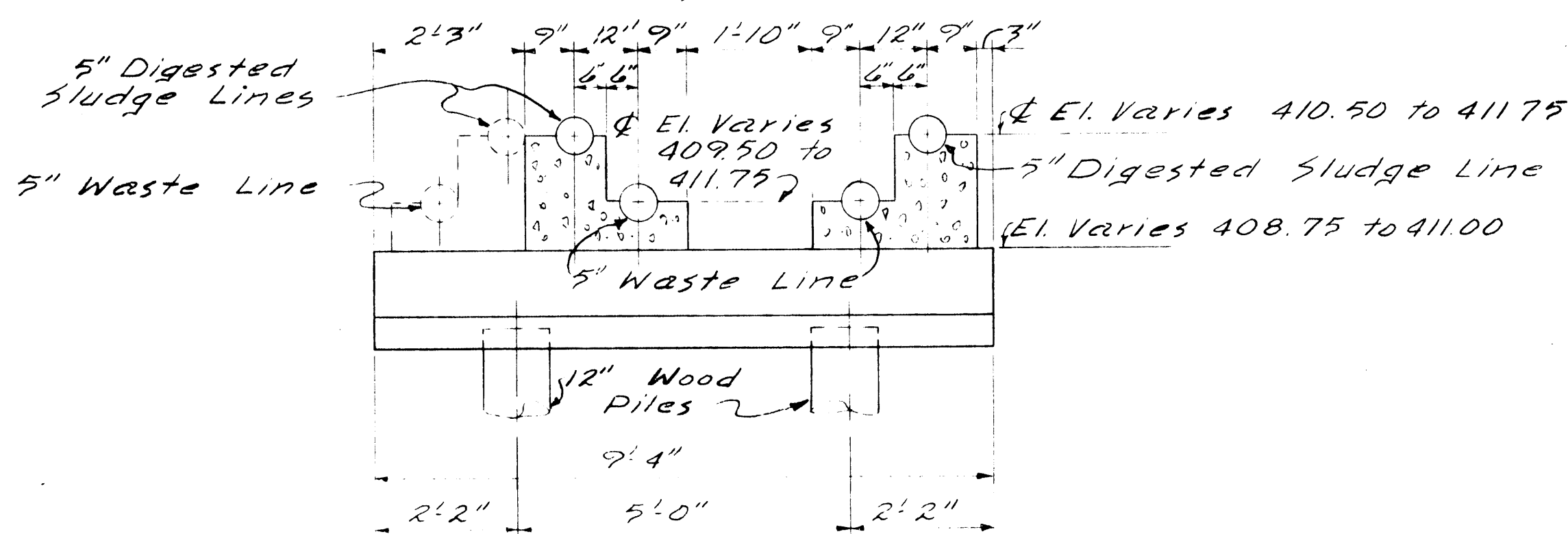
- NOTES:**
1. For Reinforcing of Pile Mats & Details See Sh. #14
  2. All Piles 12"  $\phi$  Wood Piles



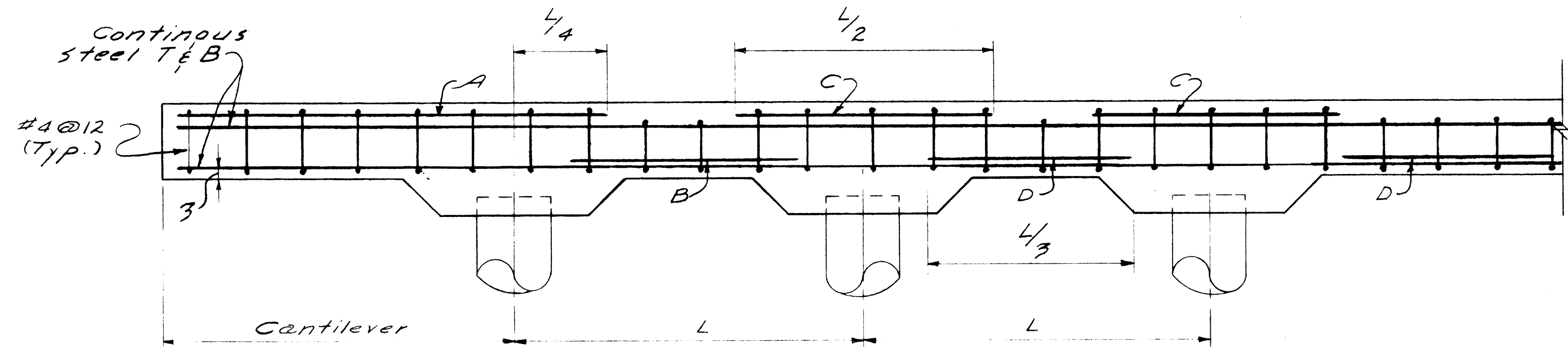
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT <b>OUTSIDE PIPING          PILE PLANS</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: AS SHOWN FILE NO.: 115.149-87F	
IN CHARGE OF: RKM DESIGNED BY: ELM, DLF MADE BY: JDS CHECKED BY: JDM	33/ 333 PDB 3-22-68 3-22-68 3-22-68	<b>G-13</b>



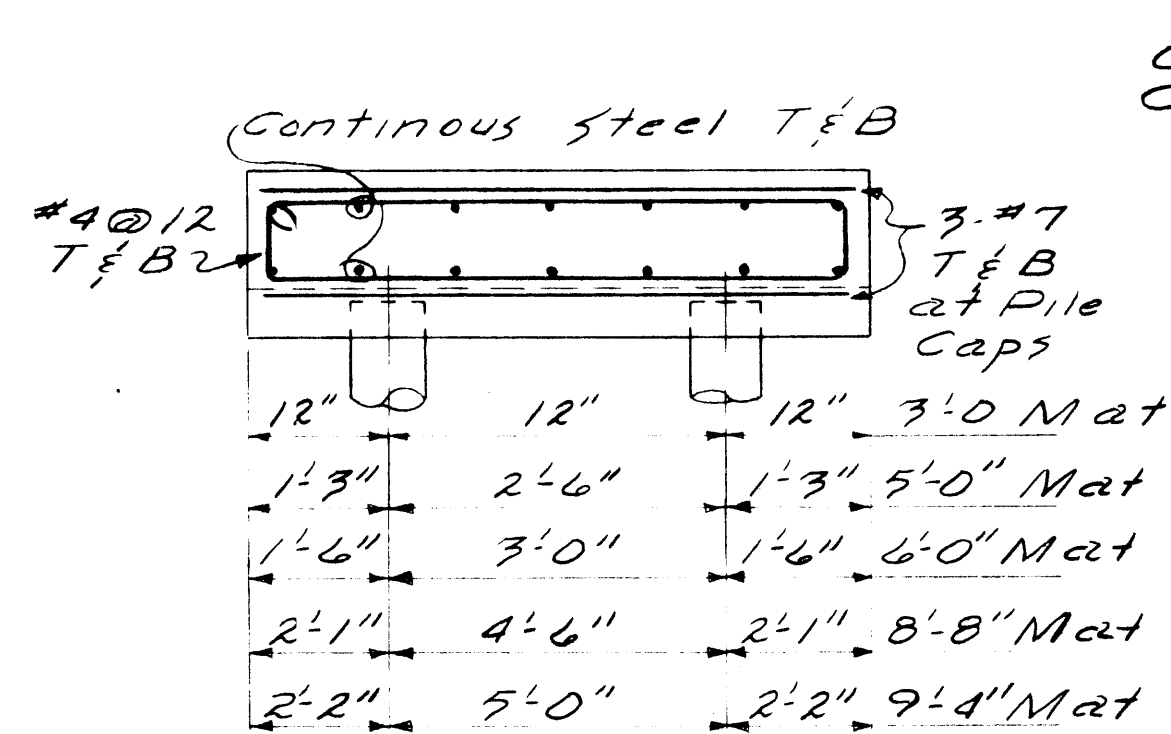
SECTION 1/14  
Scale: 1/2" = 1'-0"



SECTION 2/14  
Scale: 1/2" = 1'-0"

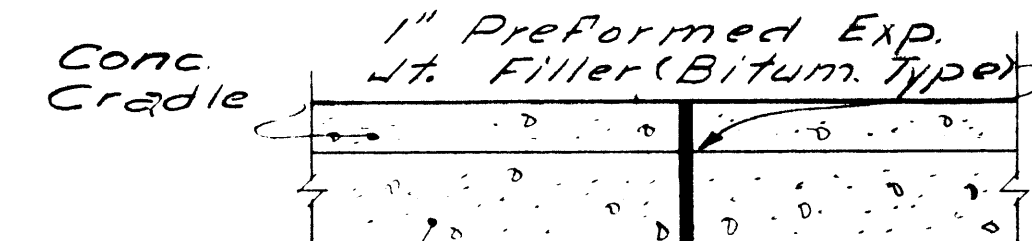


MAT REINFORCING  
No Scale

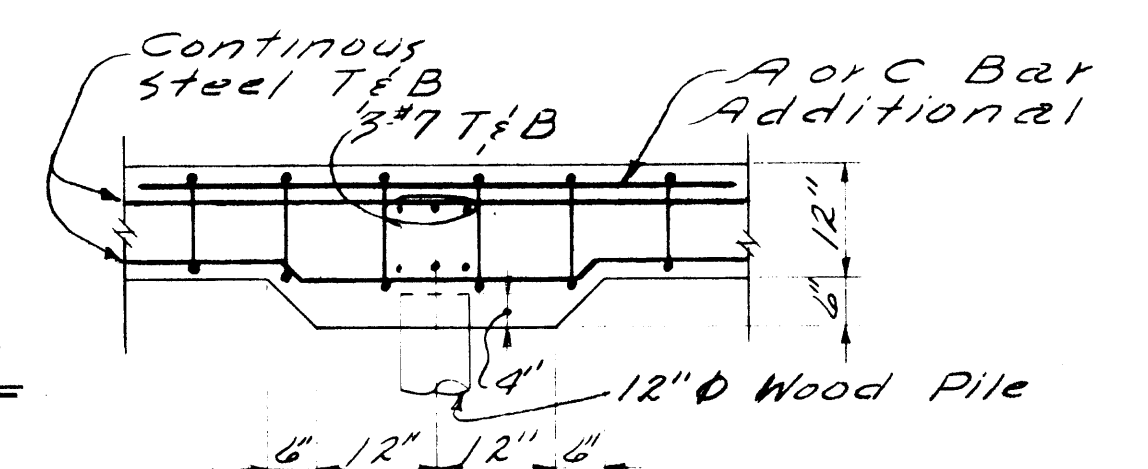


NOTE: 3#7 T&B Not Req'd for 3'-0" Mat

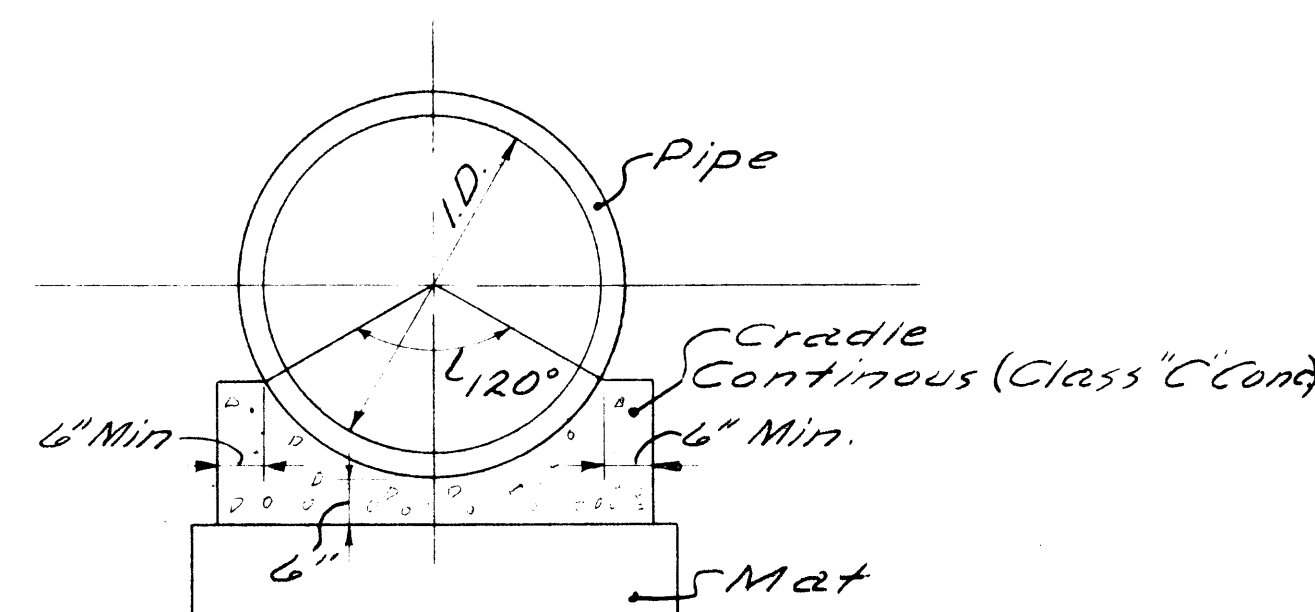
MAT SECTION  
No Scale



TYPICAL EXPANSION JOINT DETAIL  
No Scale

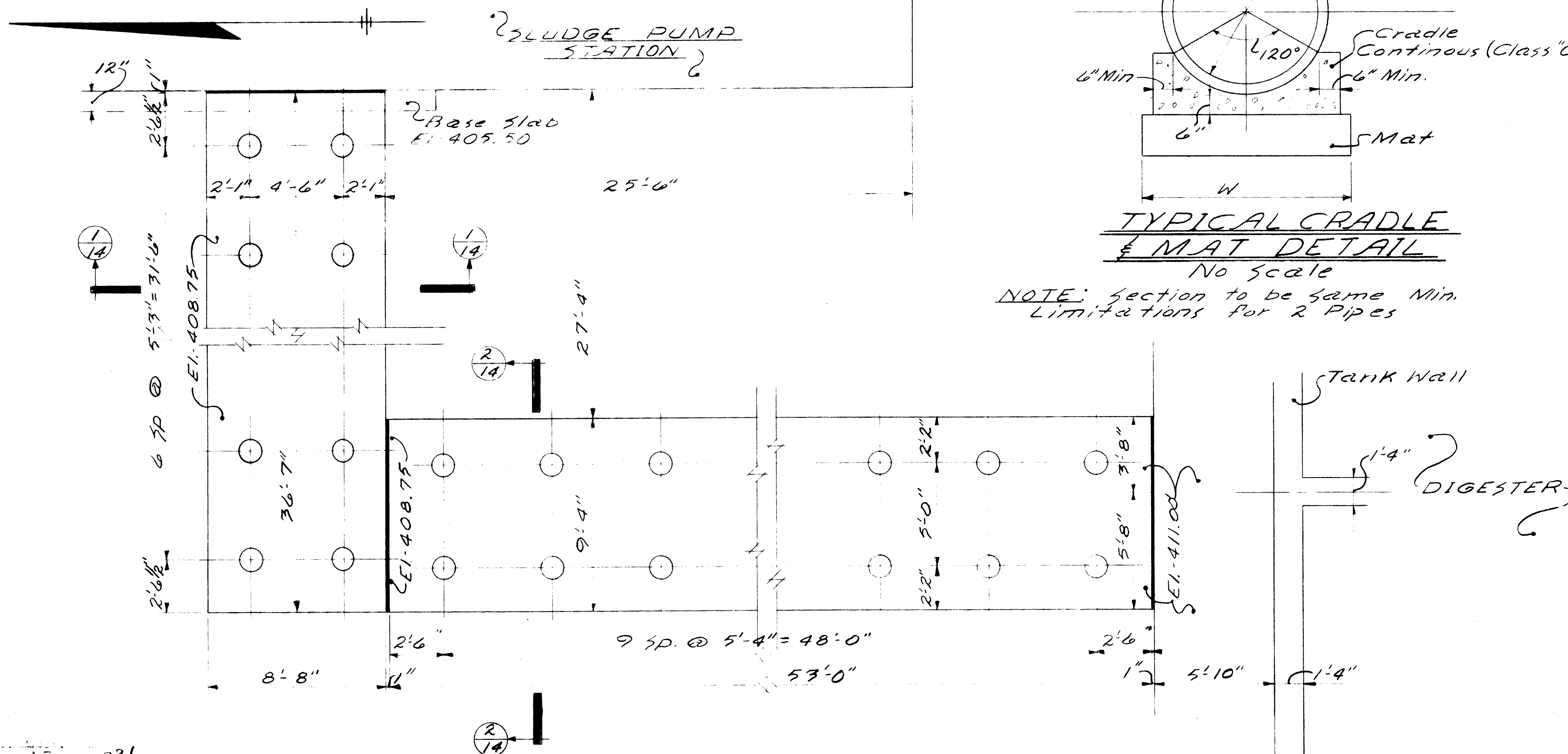


TYPICAL PILE MAT & CAP  
No Scale



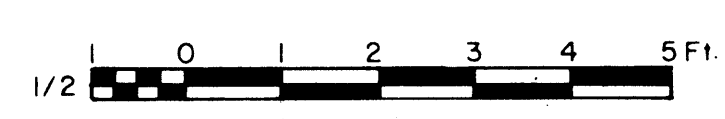
TYPICAL CRADLE & MAT DETAIL  
No Scale

NOTE: section to be same Min. Limitations for 2 Pipes



WASTE SLUDGE & DIGESTED SLUDGE LINES  
Scale: 1/2" = 1'-0"

MAT REINFORCING SCHEDULES													
Pipe Size & Location	Mat Width	Continuous Steel T&B	Additional Reinf.				Pipe Size & Location	Mat Width	Continuous Steel T&B	Additional Reinf.			
			A	B	C	D				A	B	C	D
48" @ MH#2 to MH#3	6'-0"	5#6	4#9	-	4#7	-	Sett Tank #1 to #2	5'-0"	5#6	-	4#4	4#5	-
48" @ MH#3 to Eff. P.S.	6'-0"	5#6	4#9	-	4#7	-	42" @ Sett Tank #1 to #2	5'-0"	5#6	-	4#4	4#5	-
48" @ Aeration Tank #1 to Sett Tank #2	5'-0"	5#6	4#8	-	4#6	-	Cl <sub>2</sub> Tank	5'-0"	5#6	-	4#6	4#9	-
36" @ Infl. P.S. to 90° L	5'-0"	5#6	-	4#6	4#9	-	Cl <sub>2</sub> Tank to H'wall	5'-0"	5#6	-	4#6	4#9	-
36" @ 90° L to Aeration Tank #2	5'-0"	5#6	4#8	-	4#8	-	Sett Tank #1 to MH#8	5'-0"	5#5	4#7	-	-	-
30" @ Settling Tank #1 to #2	5'-0"	5#6	4#7	-	4#8	-	Sett. Tank #2 to MH#9	5'-0"	5#5	4#7	-	-	-
24" @ MH#9 to MH#8	5'-0"	5#5	-	4#7	4#9	-	16" @ 5" @ Aeration Tank	6'-0"	6#5	5#8	-	5#8	-
24" @ MH#8 to MH#8A	5'-0"	5#5	-	-	-	-	to Sludge P.S.	8'-8"	8#4	7#5	-	7#4	-
24" @ MH#8A to Sludge Pumping Sta	5'-0"	5#5	4#5	4#4	4#9	-	Sludge P.S. to Digester	9'-4"	8#4	7#5	-	7#4	-
							10" @ MH#2 to MH#3	3'-0"	3#8	2#5	-	-	-
							MH#3 to MH#4	3'-0"					
							MH#4 to Aer. TK	3'-0"					
							MH#3 to MH#5	3'-0"					
							MH#5 to Dig.	3'-0"	4#5	3#5	-	3#5	-



AS BUILT

James M. [Signature]  
Principal Engineer N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT  
**OUTSIDE PIPING PILE PLANS**

O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
SYRACUSE, NEW YORK

DATE: FEBRUARY 14, 1968  
SCALE: 1/2" = 1'-0"  
FILE NO.: 115,149-88F

REVISIONS: [Table with 2 columns: No., Description]

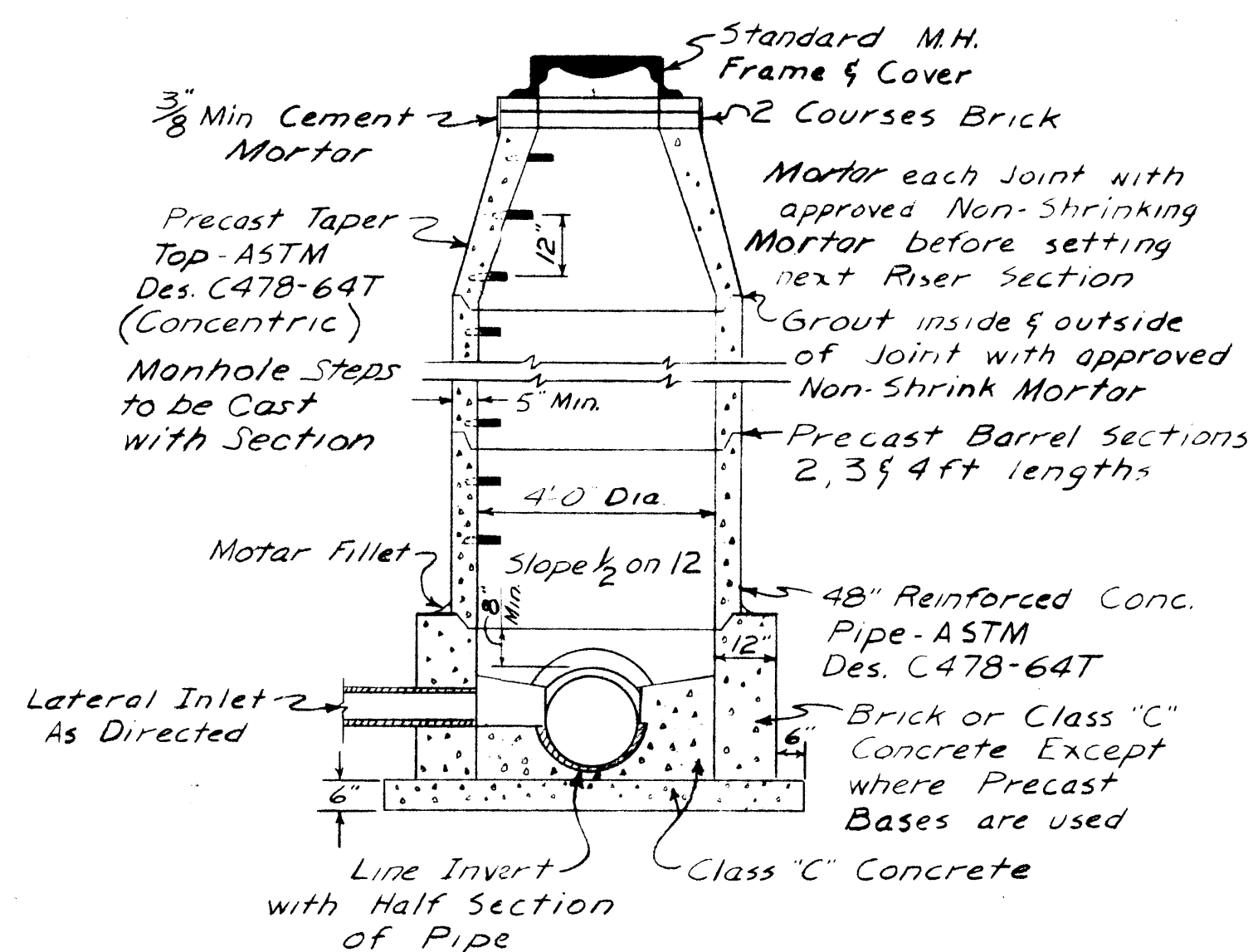
G14

IN CHARGE OF: RKM  
DESIGNED BY: ELM  
MADE BY: GPV  
CHECKED BY: JDM

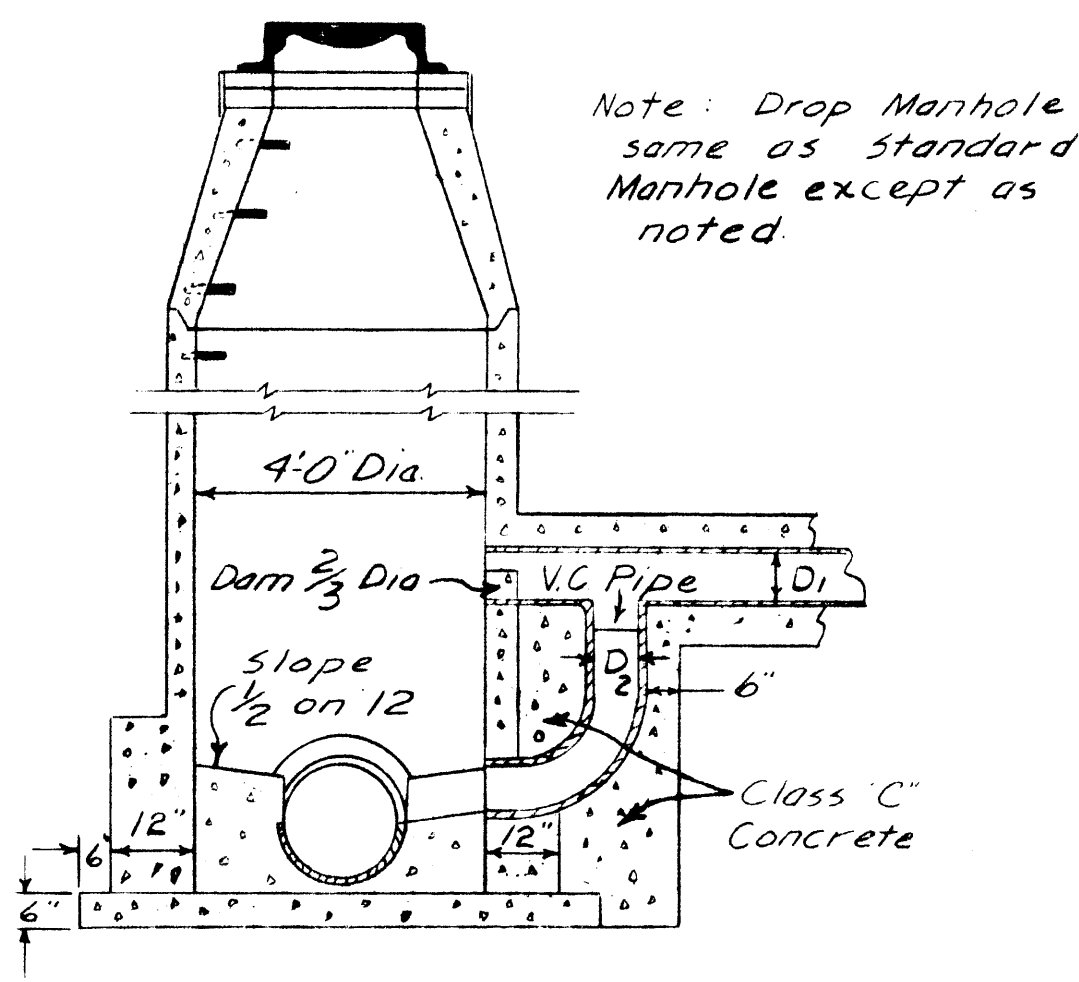
331  
JMB  
JMB  
JMB



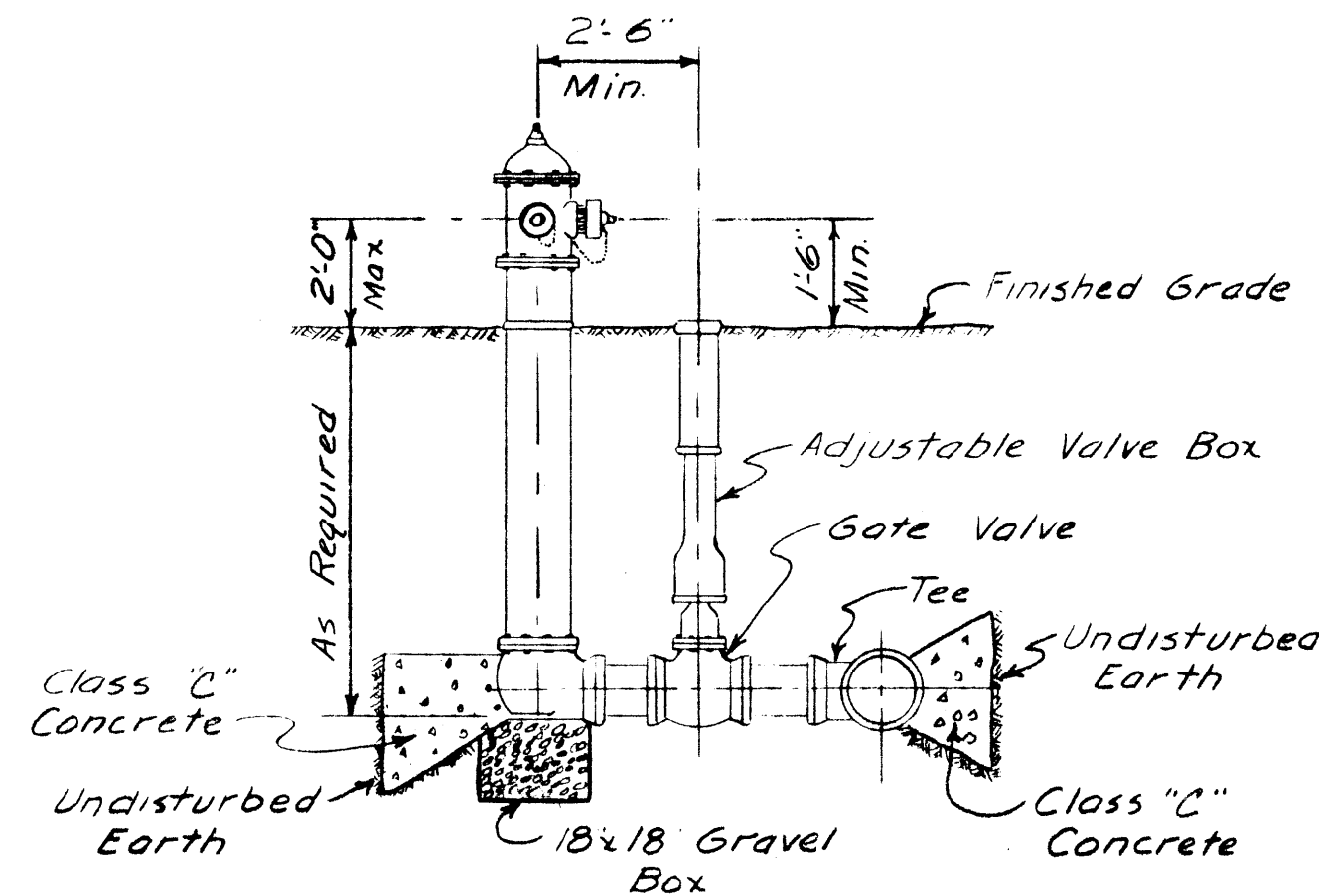
DROP MANHOLE		
Sewer Dia D1	Drop Dia D2	
8"	8"	
10"	10"	
12"	12"	
15"	12"	
18"	15"	
21"	15"	
24"	18"	



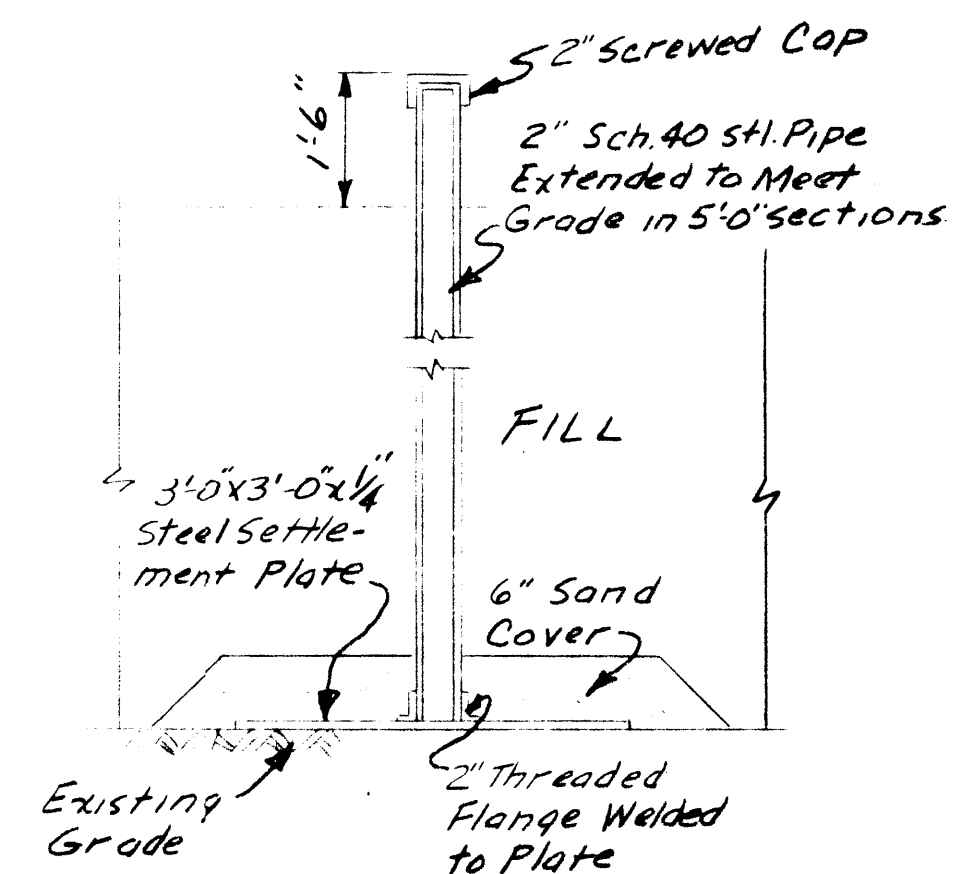
**STANDARD MANHOLE**  
No Scale



**DROP MANHOLE**  
No Scale



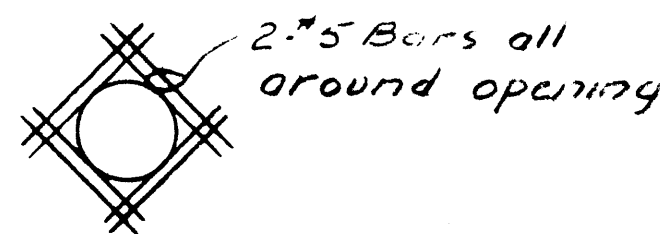
**TYPICAL HYDRANT INSTALLATION**  
No Scale



**SETTLEMENT PLATE**  
No Scale

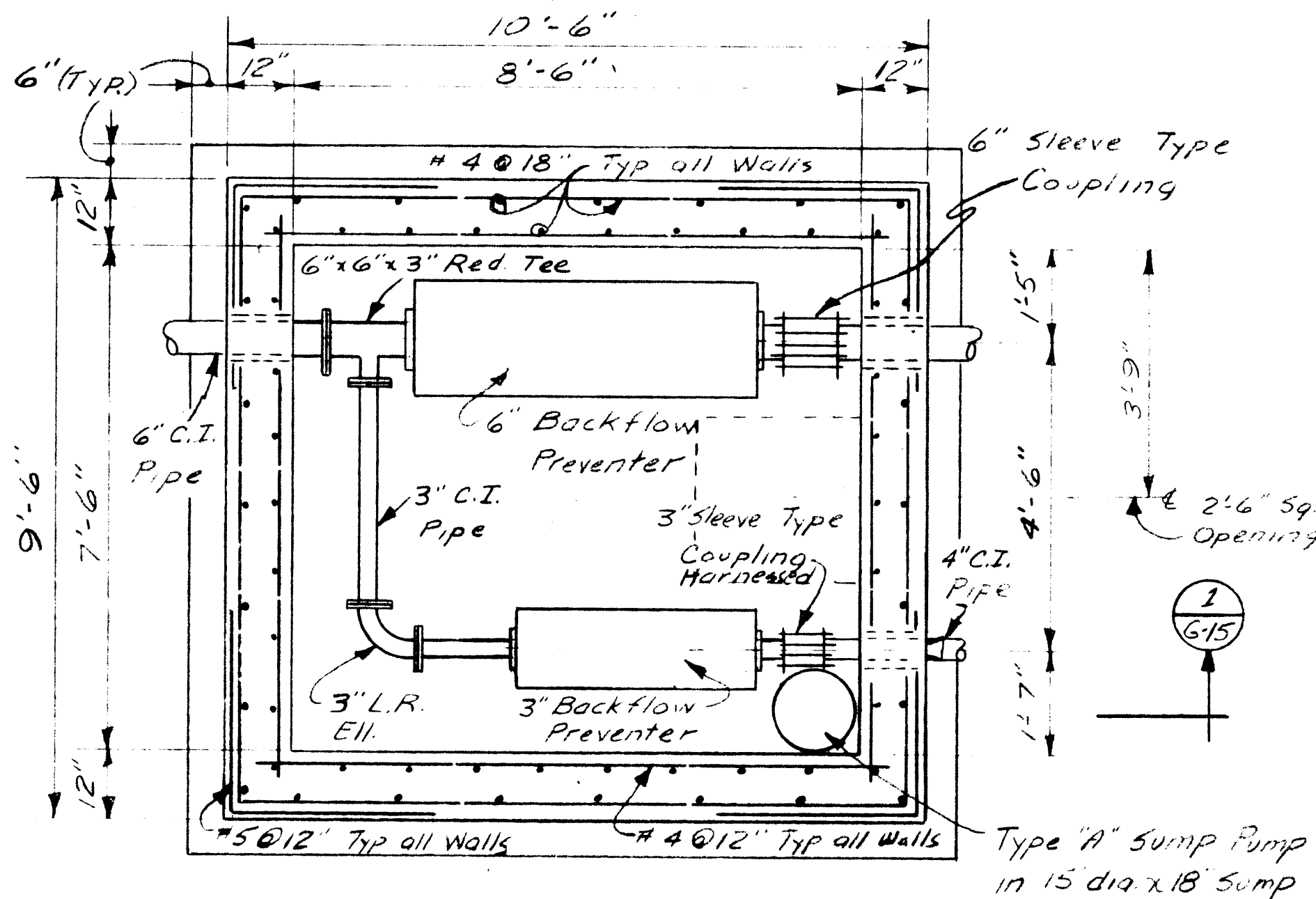
**Notes:**

1. Standard Manhole Frames & Covers shall be Syracuse Casting Co. No. SC 1002 & No. SC 2002 respectively, or as specified, and shall have machine bearing surfaces.
2. Where gasketed joints are used they shall be self contained rubber ring gasket.
3. Standard Manhole Steps shall be Syracuse Casting Co. No. SC 8001 or Approved Equal.
4. For Manhole Depths Less Than 4ft use a flat slab top of approved design.

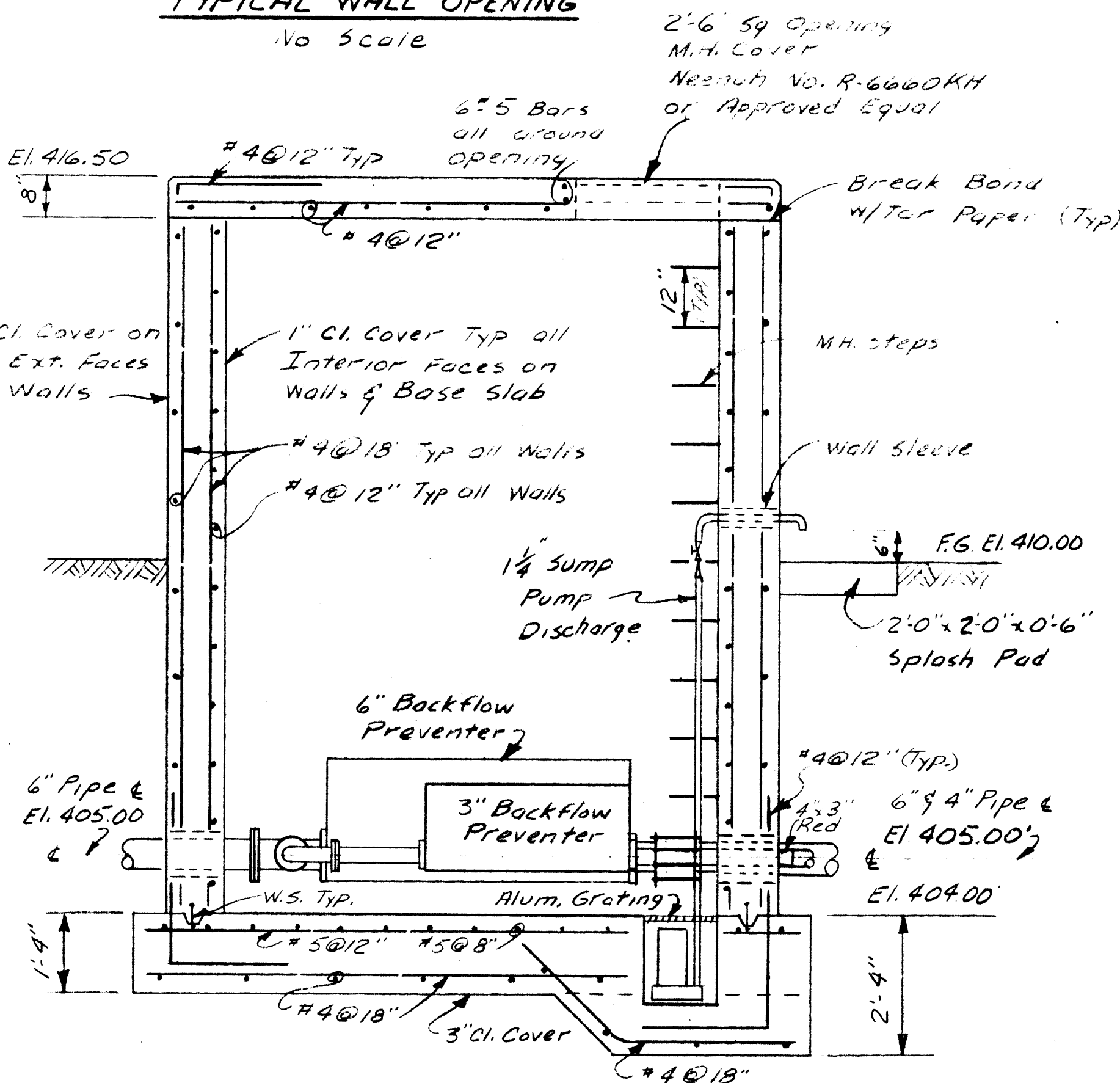


**TYPICAL WALL OPENING**  
No Scale

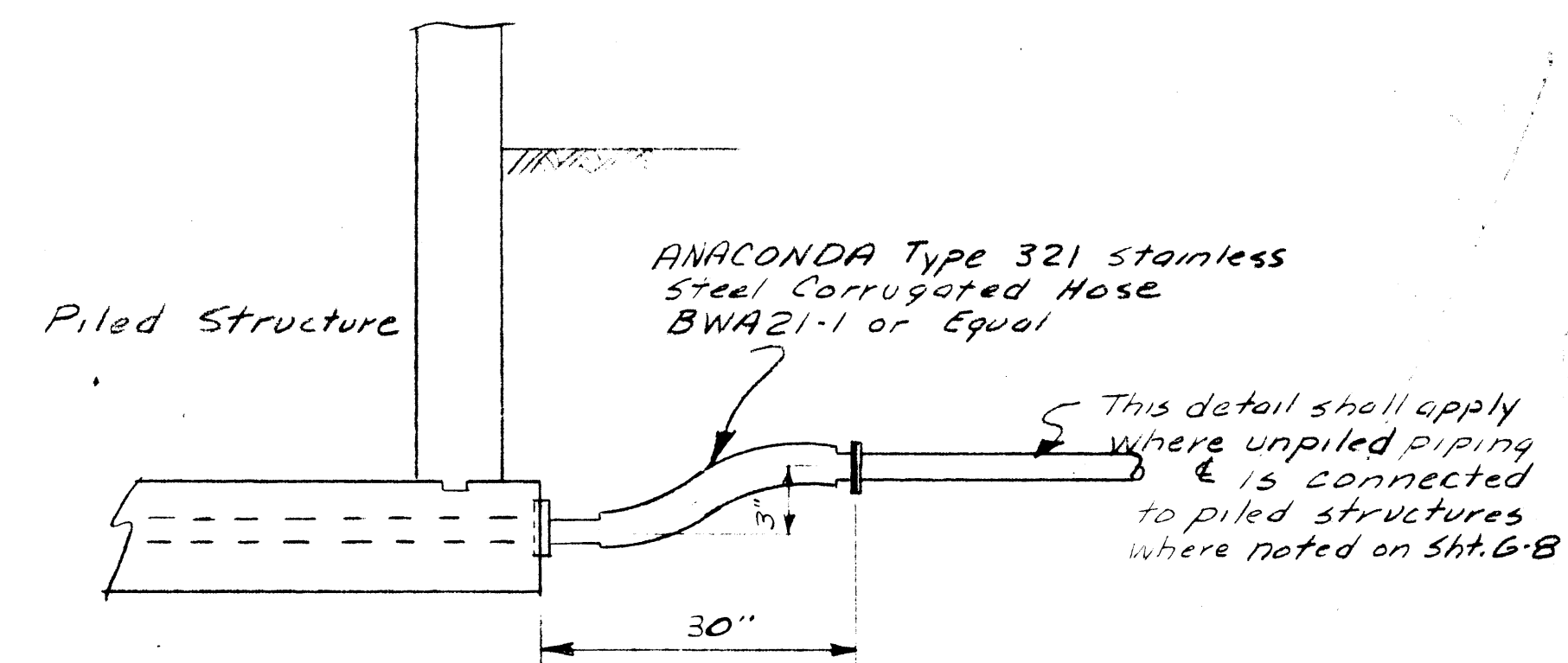
2'-6" Sq. Opening  
M.H. Cover  
Needle Va. R-6000KH  
or Approved Equal



**PLAN - BACKFLOW PREVENTER**  
Scale: 1/2" = 1'-0"



**SECTION 1/6-15**  
Scale: 1/2" = 1'-0"



**FLEXIBLE PIPE CONNECTION**  
No Scale

**AS BUILT**

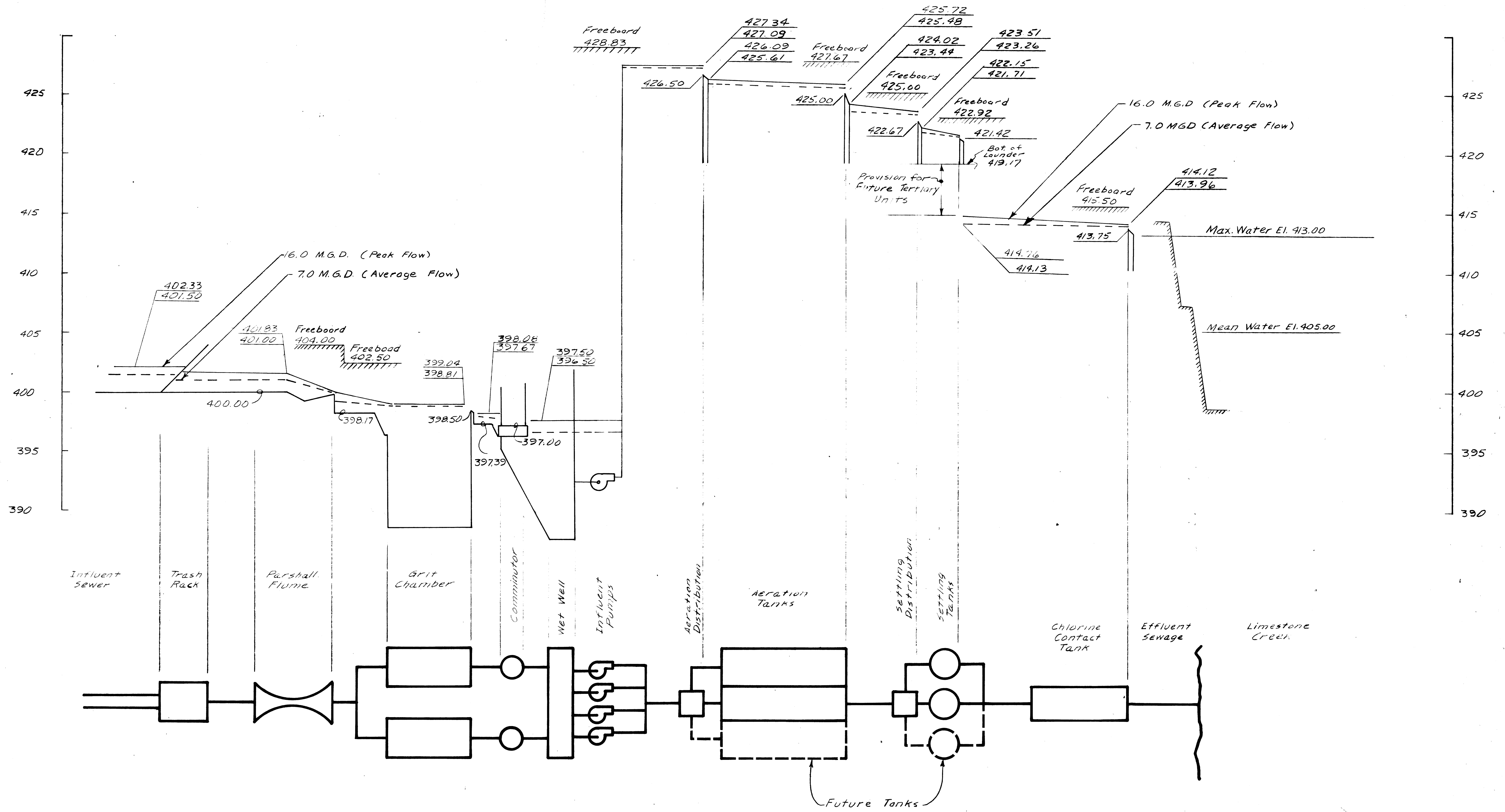
J.F. 331  
J.M.B. 2-2-72  
J.M.B. 2-2-72  
W.P. 2-2-72

IN CHARGE OF: JDM  
DESIGNED BY: PCJ  
MADE BY: JMB  
CHECKED BY: JDM

PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		
<b>MISC. DETAILS</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: AS SHOWN FILE NO.: 15.149 - 89F	<b>G-15</b>





AS BUILT

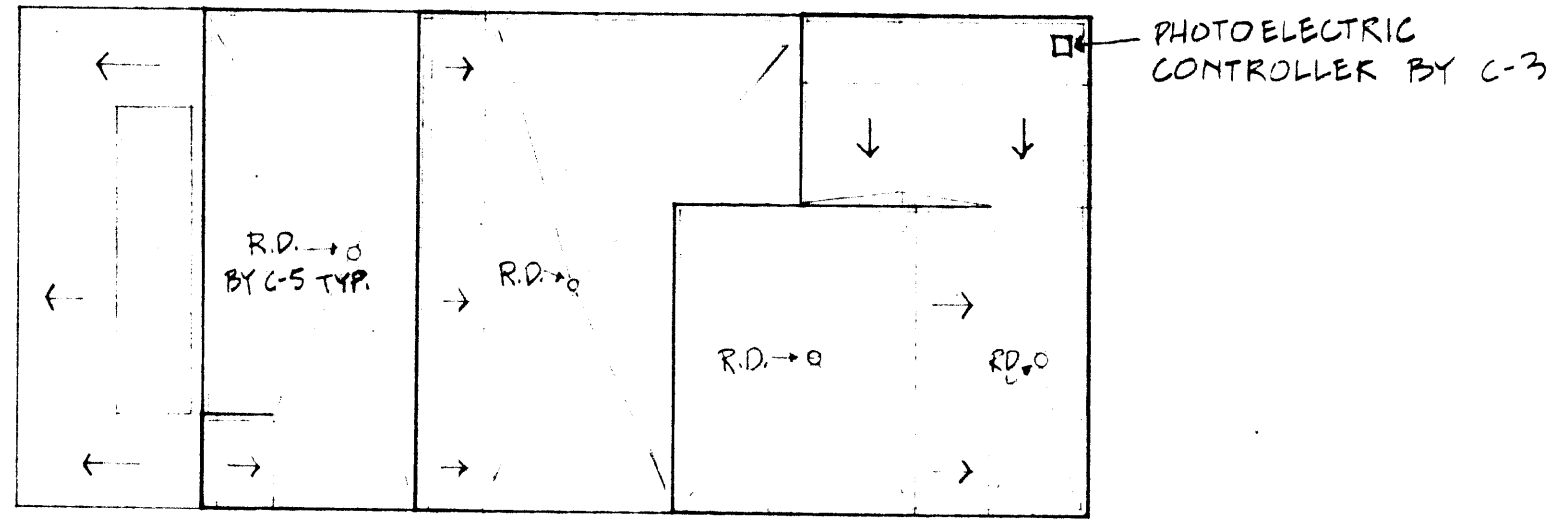
AS BUILT  
 J.E. 331  
 J.M.B. 2-22-68  
 J.M.B. 7-22-68  
 W.J.P. 7-22-68

IN CHARGE OF: JDM  
 DESIGNED BY: WJP  
 MADE BY: JMB  
 CHECKED BY: JDM

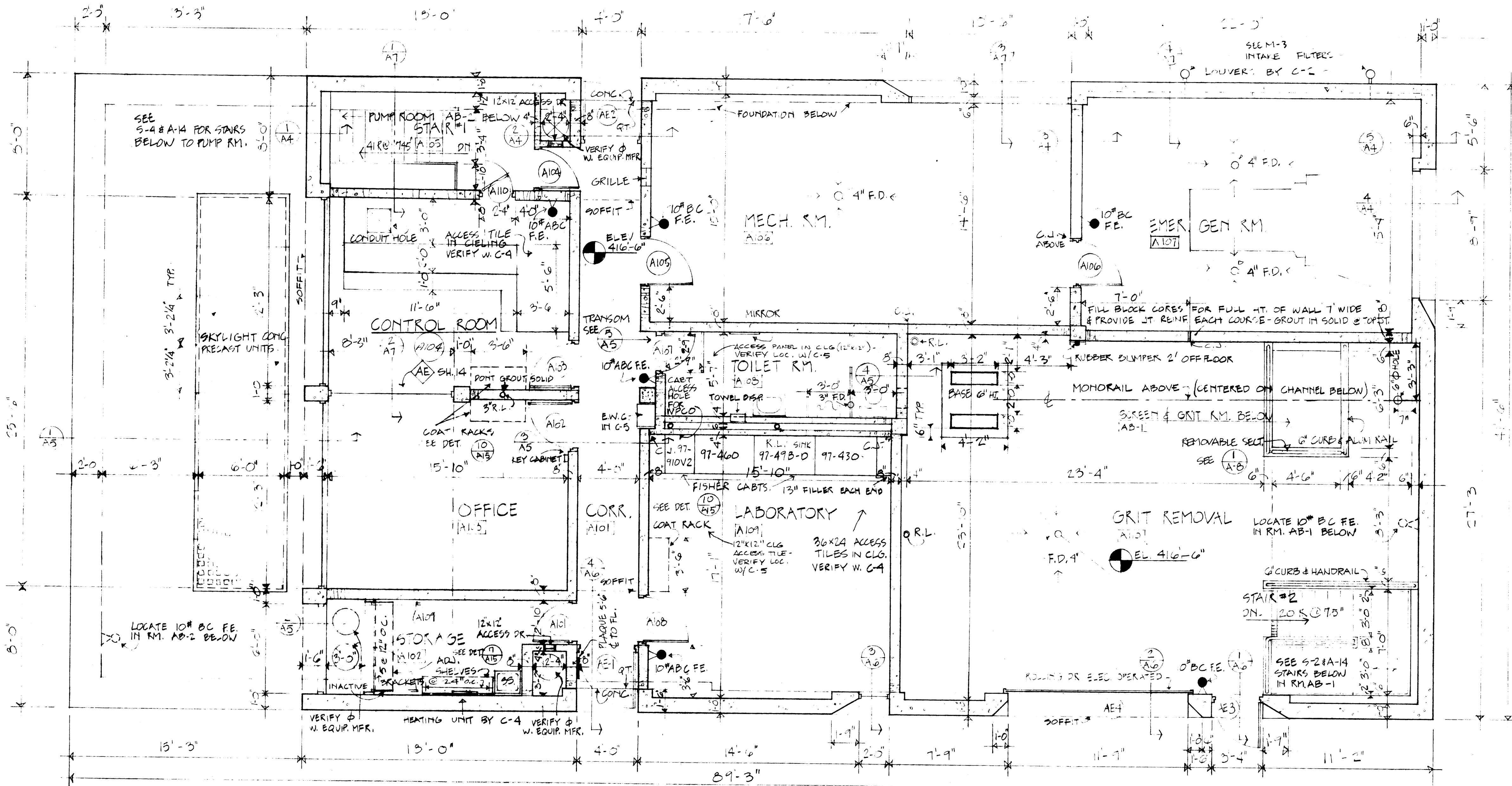
*James E. O'Brien*  
 PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		
<b>HYDRAULIC PROFILE</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: AS SHOWN FILE NO.: 115.149-90F	G-16

NORTH



ROOF PLAN  
1/16" = 1'-0"



INFLUENT PUMP STATION PLAN  
1/4" = 1'-0"

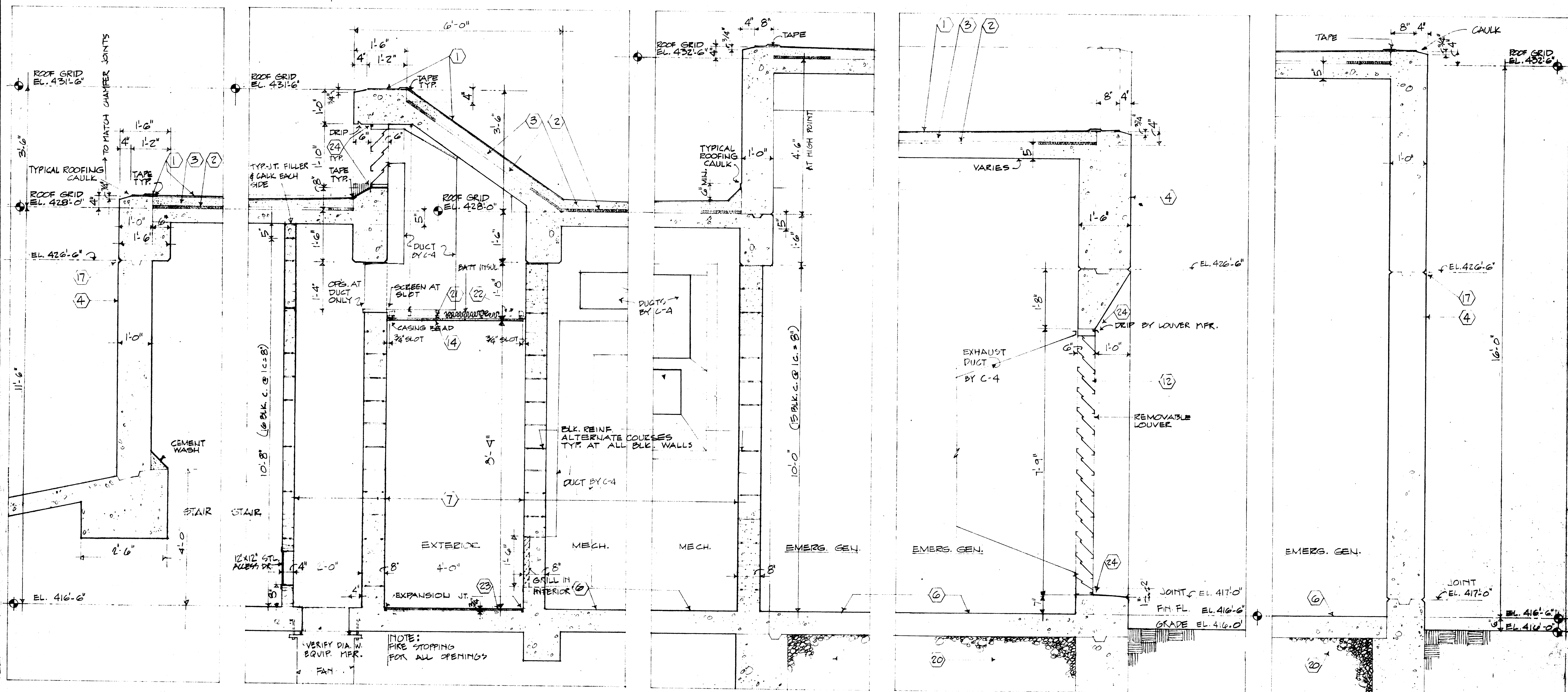
AS BUILT 1/4" = 1'-0" 4 2 0 4 8"

IN CHARGE OF: TK  
 DESIGNED BY: TM  
 MADE BY: TM  
 CHECKED BY: DPF

AS BUILT  
 J.F. 2-2-72  
 J.M.B. 2-3-72  
 J.M.B. 2-3-72  
 J.W.P. 2-2-72

	ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK—LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT <b>INFLUENT PUMP STATION          FLOOR &amp; ROOF PLANS</b>	
	O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS STRUCTURE, NEW YORK <i>Samuel J. O'Brien</i>	DATE: FEBRUARY 14, 1968 SCALE: AS NOTED FILE NO.: 115.149-3P






SECTION 1 A3 3/4" = 1'-0" INFLUENT PUMP STATION  
 SECTION 2 A3 3/4" = 1'-0"  
 SECTION 3 A3 3/4" = 1'-0"  
 SECTION 4 A3 3/4" = 1'-0"  
 SECTION 5 A3 3/4" = 1'-0"


20 - Earth embankment conforming to the requirements of the Materials & Performance section headed Earth Embankment

AS BUILT 3/4" [Scale Bar]

- 1 ELASTOMERIC SHEET ROOFING
- 2 INSULATION
- 3 LIGHT WEIGHT CONCRETE
- 4 POURED CONCRETE
- 5 PRE-CAST CONCRETE
- 6 CONC. SLAB
- 7 CONC. BLOCK
- 8 EXTRU. ALUM. FRAME
- 9 H.M. FRAME
- 10 H.M. DOOR
- 11 GLASS
- 12 EXTRU. ALUM. LOUVER BY U2
- 13 A.T.
- 14 PLASTER
- 15 STEEL ROLL-UP DOOR
- 16 ALUM. THRESHOLD
- 17 "V" JOINT (1 1/2" x 3/4")
- 18 MEMBRANE FLASHING
- 19 CURB BAR
- 20 See Note above
- 21 3/4" FURRING G.
- 22 1/2" RUNNER G.
- 23 QUARRY TILE (ABRASIVE @ EXTERIOR)
- 24 CAULK & STOP
- 25 M.M. QUARRY TILE
- 26 VINYL

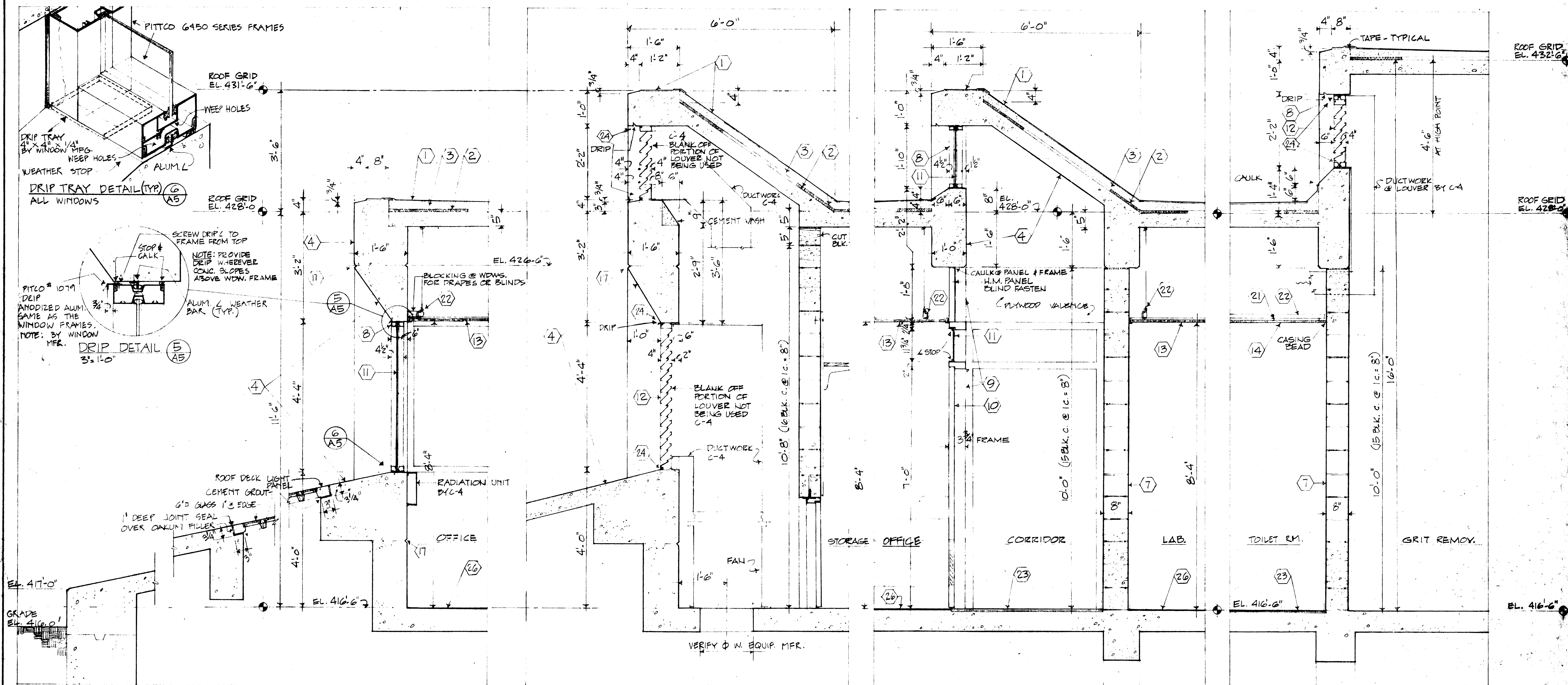


ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF DRAINAGE AND SANITATION  
 MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT  
 TREATMENT PLANT  
**INFLUENT PUMP STATION  
 WALL SECTIONS**



O'BRIEN & GERE  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 487 1/2 W. 23rd St.  
 Syracuse, N.Y. 13207  
 DATE: FEBRUARY 14, 1968  
 SCALE: AS NOTED  
 FILE NO.: 15-1-68-37



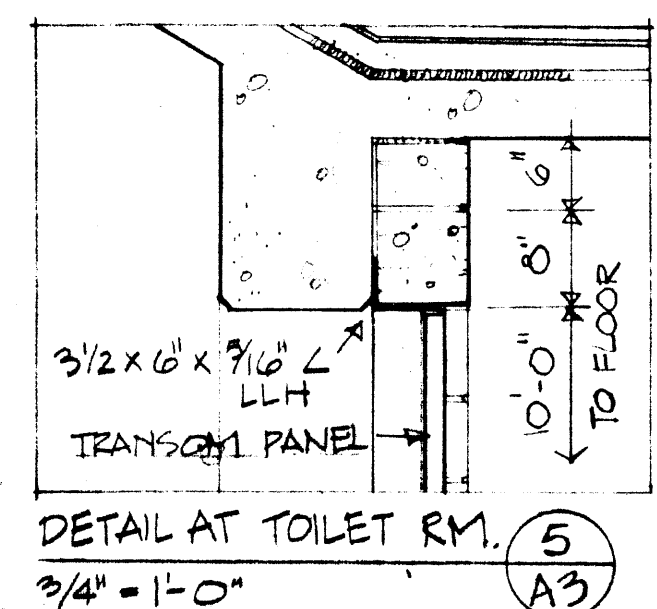
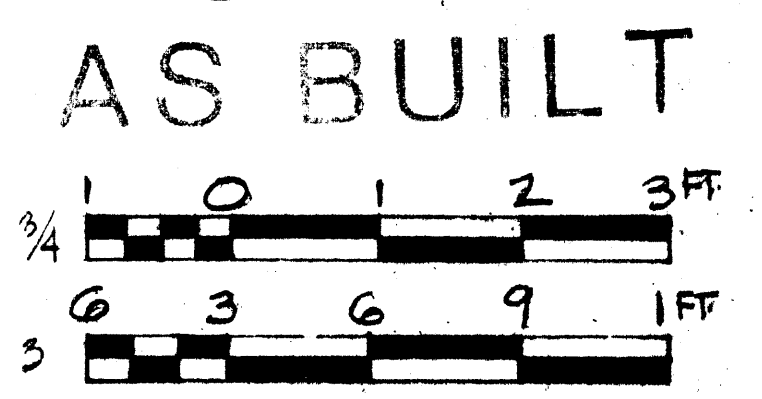


SECTION 1  
3/4" = 1'-0" (A3)

SECTION 2  
3/4" = 1'-0" (A3)

SECTION 4  
3/4" = 1'-0" (A3)

INFLUENT PUMP STATION



- |                             |                               |                            |                                      |                     |
|-----------------------------|-------------------------------|----------------------------|--------------------------------------|---------------------|
| 1 ELASTOMERIC SHEET ROOFING | 7 CONC. BLOCK                 | 13 A.T.                    | 19 CURB BAR                          | 25 MIN. QUARRY TILE |
| 2 INSULATION                | 8 EXTRU. ALUM. FRAME          | 14 PLASTER                 | 20 See Note Sht. A-4                 | 26 VINYL            |
| 3 LIGHT WEIGHT CONCRETES    | 9 H.M. FRAME                  | 15 STEEL ROLL-UP DOOR      | 21 3/4" TUBING B.                    |                     |
| 4 POURED CONCRETE           | 10 H.M. DOOR                  | 16 ALUM. THRESHOLD         | 22 1/2" RUNNER B.                    |                     |
| 5 PRE-CAST CONCRETE         | 11 GLASS                      | 17 "V" JOINT (1/2" x 3/4") | 23 QUARRY TILE (ABRASIVE @ EXTERIOR) |                     |
| 6 CONC. SLAB                | 12 EXTRU. ALUM. LOUVER BY C-2 | 18 MEMBRANE FLASHING       | 24 CALK & STOP                       |                     |

AS BUILT  
 J.F. 331  
 Made by J.M.P. 7-22-72  
 Checked by J.M.P. 12-2-72  
 Signed by J.M.P.  
 IN CHARGE OF: TK  
 DESIGNED BY: TM  
 MADE BY: J.M.P.  
 CHECKED BY: DPF

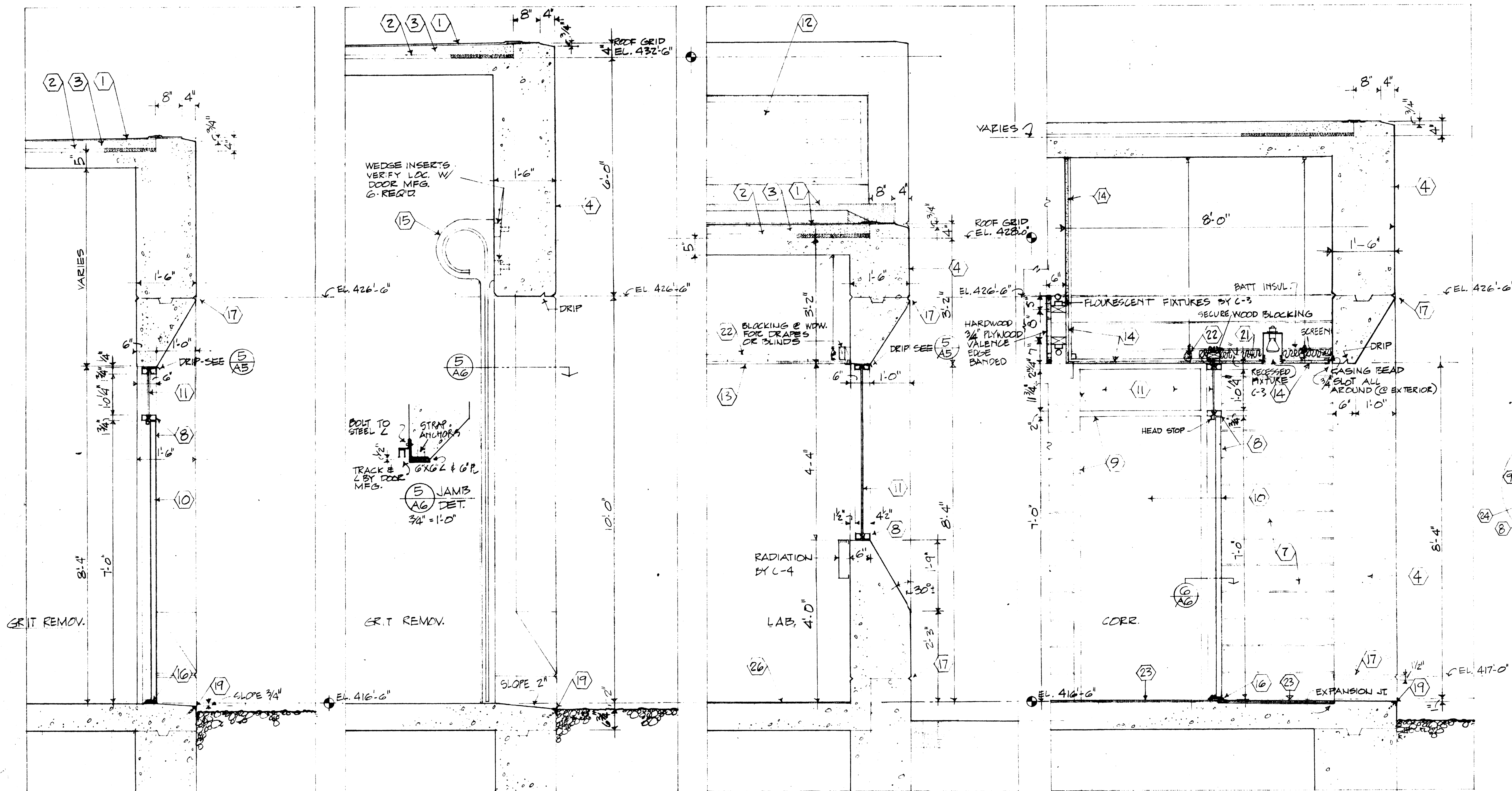
MACDONALD - BURMANE - FRENCH & SIZING  
 CONSULTING ARCHITECTS  
 100 N. Y. 100  
 NEW YORK, N. Y.

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF DRAINAGE AND SANITATION  
 MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT  
 TREATMENT PLANT  
**INFLUENT PUMP STATION  
 WALL SECTIONS**  
 O'BRIEN & GERE  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 100 N. Y. 100  
 NEW YORK, N. Y.

DATE: FEBRUARY 14, 1968  
 SCALE: AS NOTED  
 FILE NO.: 8249-SF







SECTION 1  
3/4" = 1'-0" (A3)

SECTION 2  
3/4" = 1'-0" (A3)

SECTION 3  
3/4" = 1'-0" (A3)

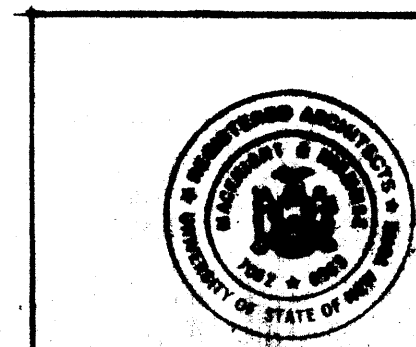
SECTION 4  
3/4" = 1'-0" (A3)

INFLUENT PUMP STATION

AS BUILT

IN CHARGE OF: TK  
DESIGNED BY: TM  
MADE BY: JM, TM  
CHECKED BY: DP

- ① ELASTOMERIC SHEET ROOFING
- ② INSULATION
- ③ LIGHT WEIGHT CONCRETE
- ④ POURED CONCRETE
- ⑤ PRE-CAST CONCRETE
- ⑥ CONC. SLAB
- ⑦ CONC. BLOCK
- ⑧ EXTEU. ALUM. FRAME
- ⑨ H.M. FRAME
- ⑩ H.M. DOOR
- ⑪ GLASS
- ⑫ EXTEU. ALUM. LOUVER BY C-2
- ⑬ A.T.
- ⑭ PLASTER
- ⑮ STEEL ROLL-UP DOOR
- ⑯ ALUM. THRESHOLD
- ⑰ "V" JOINT (1/2" x 3/4")
- ⑱ MEMBRANE FLASHING
- ⑲ CUBED BAR
- ⑳ See Note Sht. A-4
- ㉑ 3/4" FURRING B.
- ㉒ 1/2" RUNNER B.
- ㉓ QUARRY TILE (ABRASIVE @ EXTERIOR)
- ㉔ CALK & STOP
- ㉕ MIN. QUARRY TILE
- ㉖ VINYL

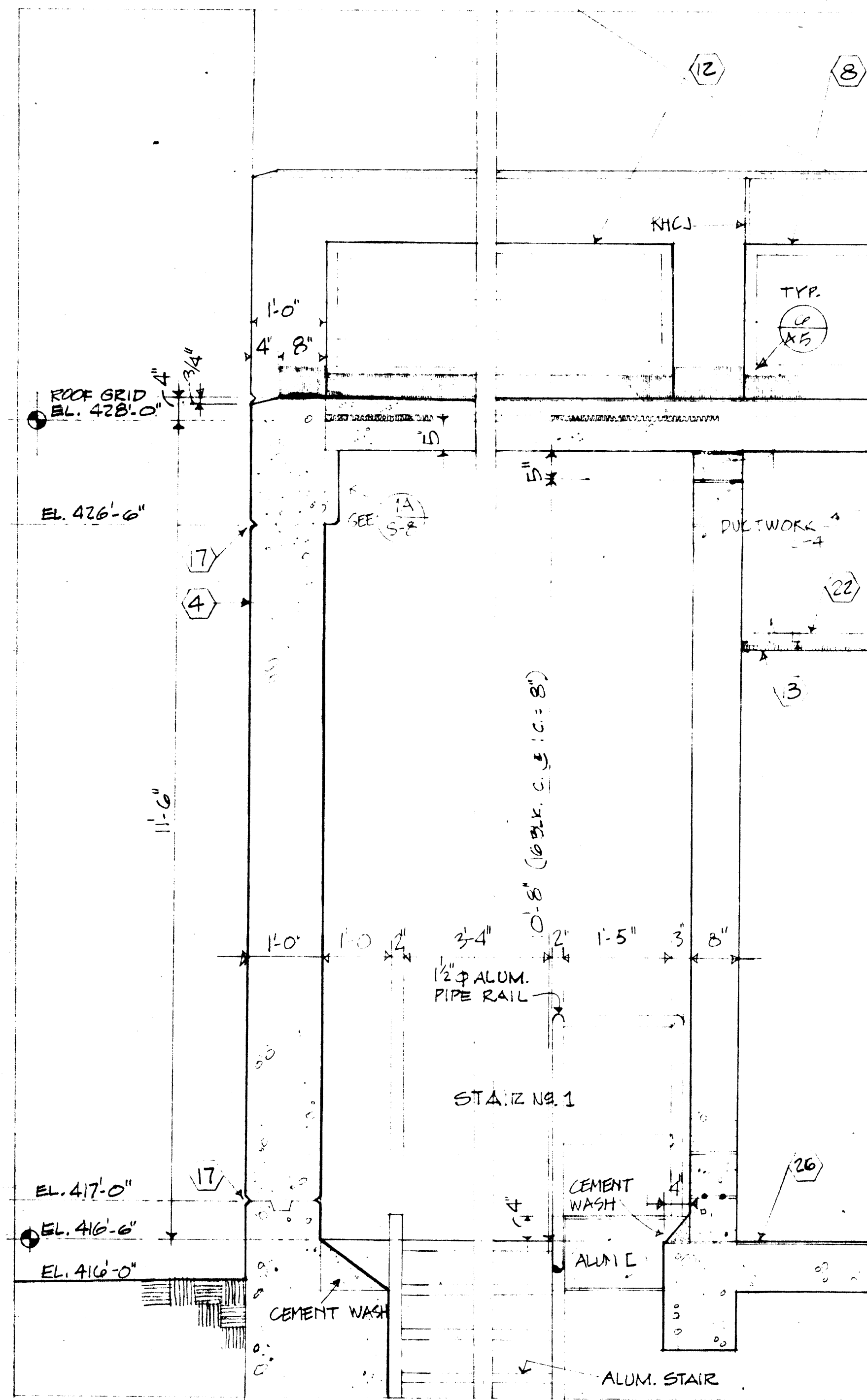


MACKNIGHT - HENDRICK - FRENCH & SZABO  
CONSULTING ARCHITECTS  
425 BROADWAY  
NEW YORK, N.Y. 10013

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT  
**INFLUENT PUMP STATION  
WALL SECTIONS**  
O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
STRAUSS BUILDING  
100 N. STATE ST.  
SARASOTA, FLORIDA 34236  
DATE: FEBRUARY 14, 1968  
SCALE: AS NOTED  
FILE NO.: 2146-07

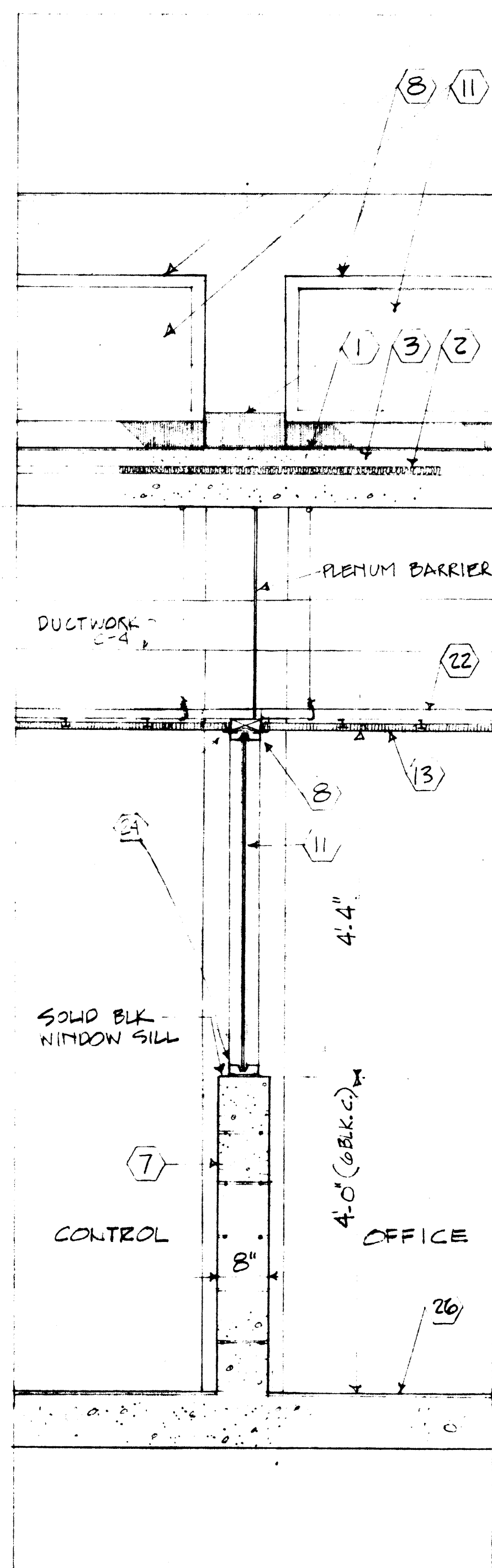




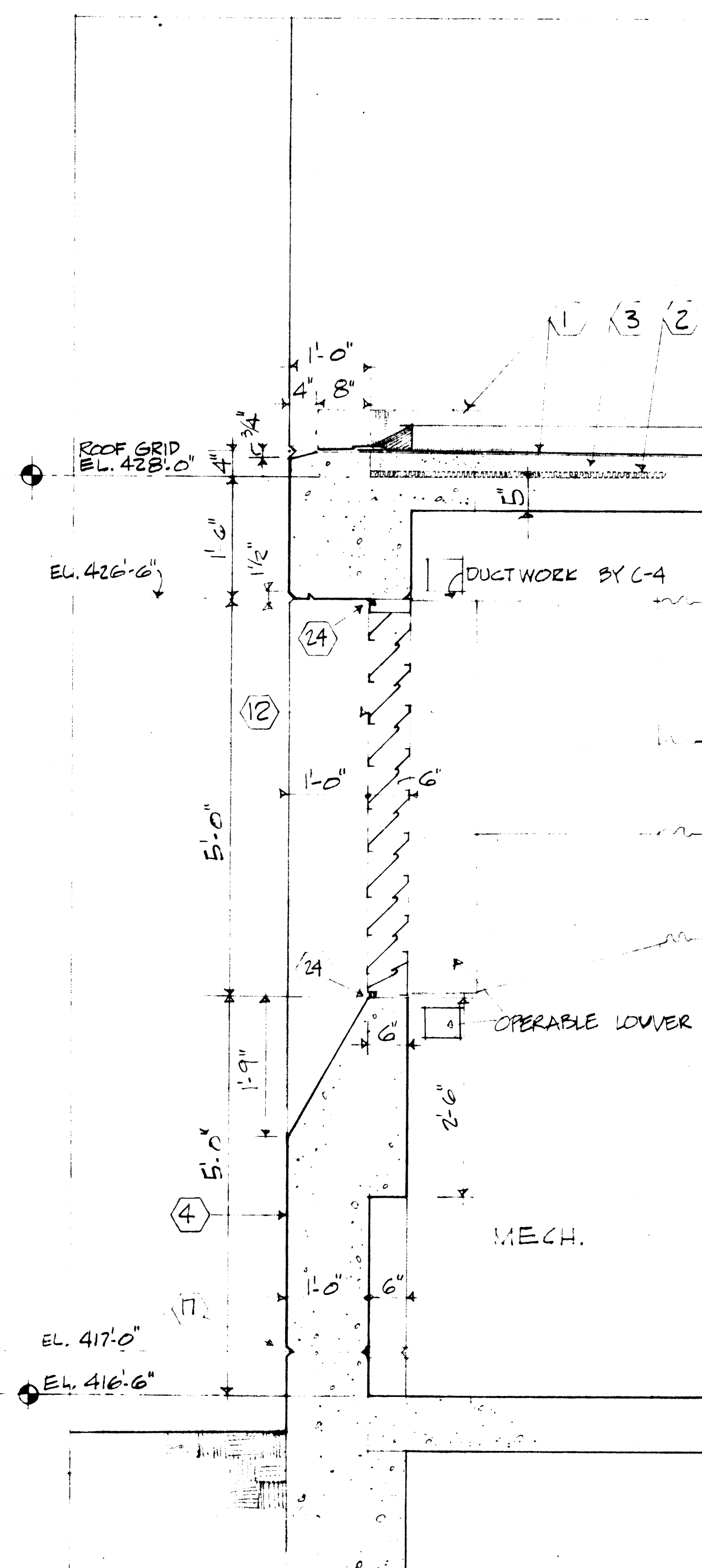


SECTION 1  
3/4" = 1'-0" (A3)

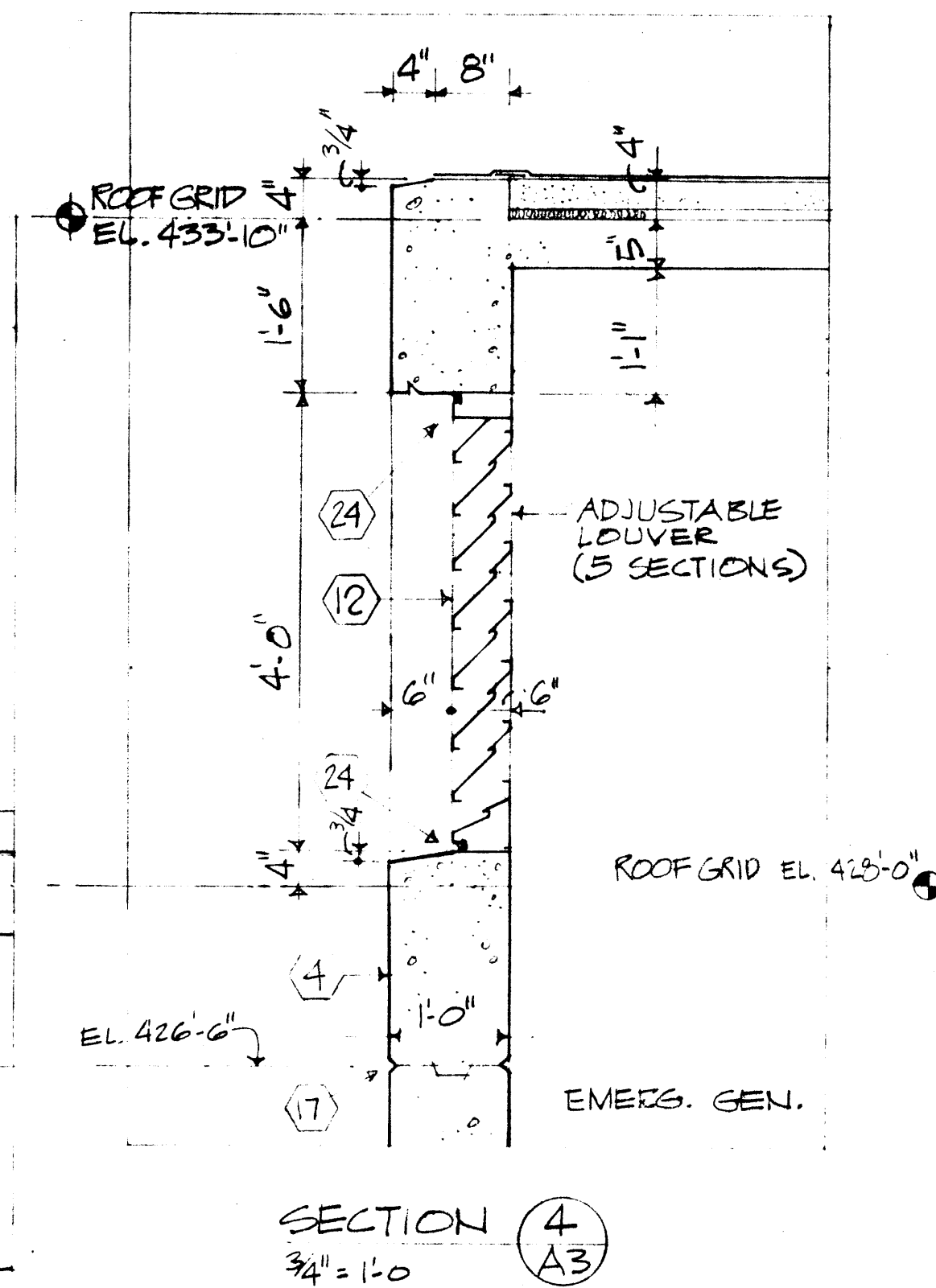
INFLUENT PUMP STATION



SECTION 2  
3/4" = 1'-0" (A3)



SECTION 3  
3/4" = 1'-0" (A3)

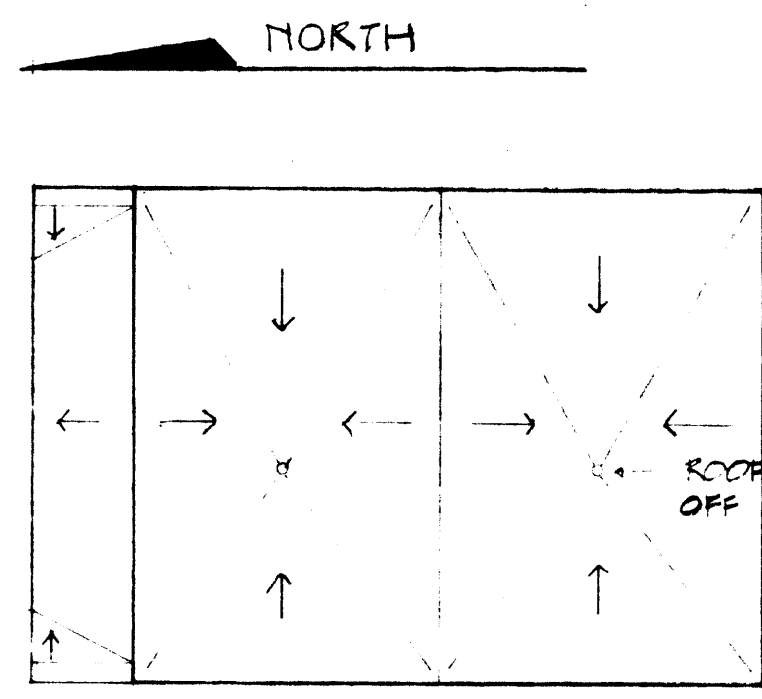


SECTION 4  
3/4" = 1'-0" (A3)

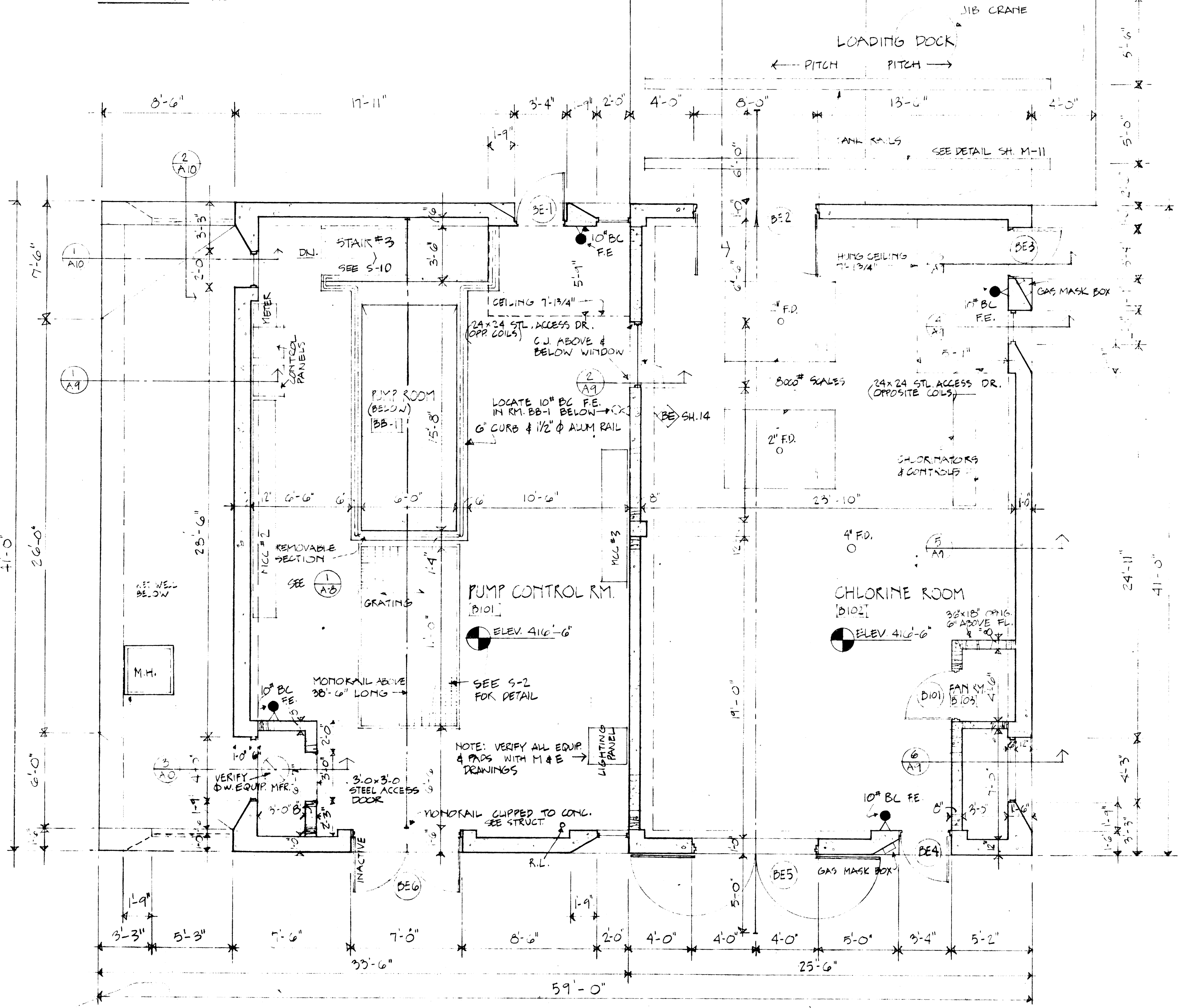
AS BUILT

- |                             |                           |                           |                                     |                    |
|-----------------------------|---------------------------|---------------------------|-------------------------------------|--------------------|
| ① ELASTOMERIC SHEET ROOFING | ⑦ CONC. BLOCK             | ⑬ A.T.                    | ⑰ CURB BAZ                          | ⑳ MIN. QUARRY TILE |
| ② INSULATION                | ⑧ EXTRU. ALUM. FRAME      | ⑭ PLASTER                 | ㉑ See Note Sht A-4                  | ㉒ VINYL            |
| ③ LIGHT WEIGHT CONC.        | ⑨ H.M. FRAME              | ⑮ STEEL ROLL-UP DOOR      | ㉓ 3/4" FURRING B.                   |                    |
| ④ POURED CONCRETE           | ⑩ H.M. DOOR               | ⑯ ALUM. THRESHOLD         | ㉔ 1/2" RUNNER B.                    |                    |
| ⑤ PRE-CAST CONCRETE         | ⑪ GLASS                   | ⑰ "V" JOINT (1/2" x 3/4") | ㉕ QUARRY TILE (ABRASIVE @ EXTERIOR) |                    |
| ⑥ CONC SLAB                 | ⑫ EXTRU. ALUM. LOUVER C-2 | ⑱ MEMBRANE FLASHING       | ㉖ CALK & STOP                       |                    |

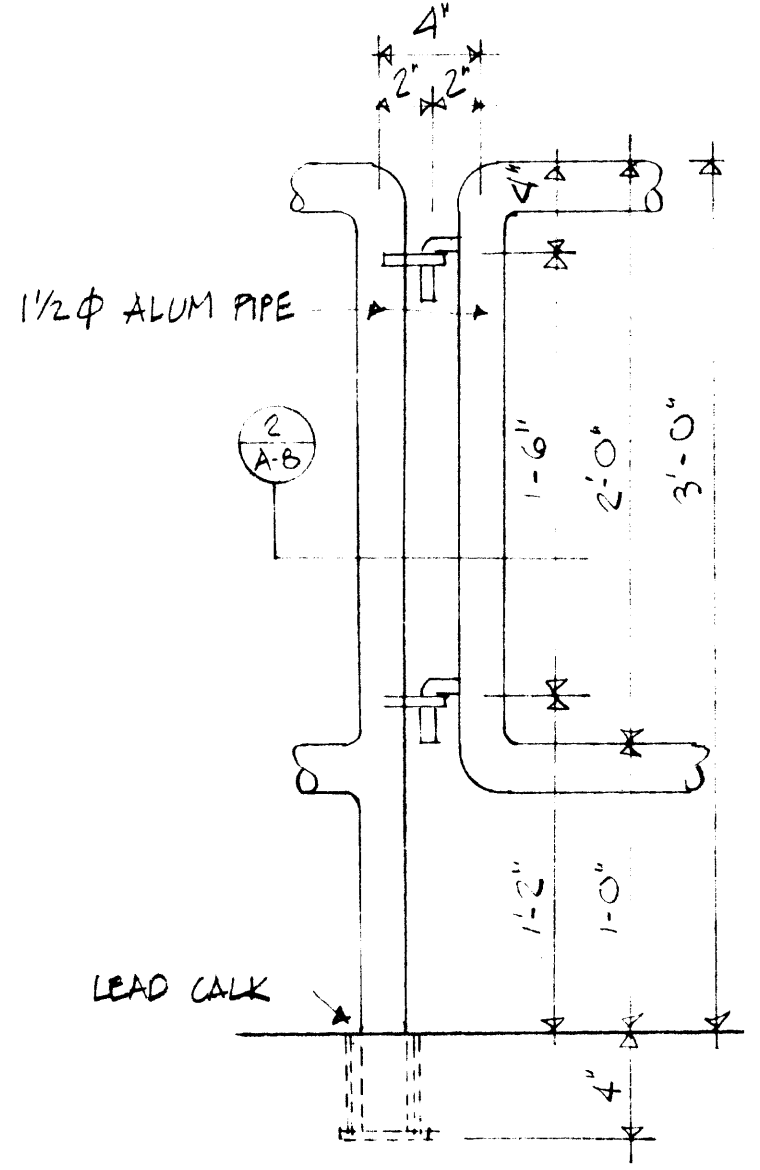
	ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT <b>INFLUENT PUMP STATION          WALL SECTIONS</b>		
	O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS STEPHEN J. GERING	DATE: FEBRUARY 14, 1968 SCALE: AS NOTED FILE NO.: 9539-77	



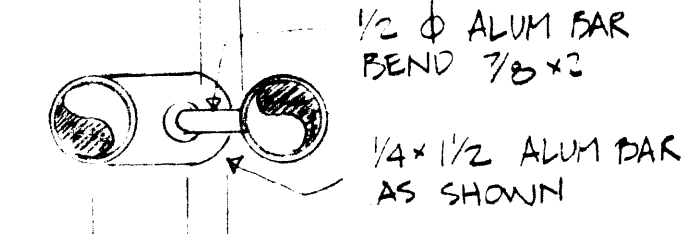
ROOF PLAN 1/16" = 1'-0"



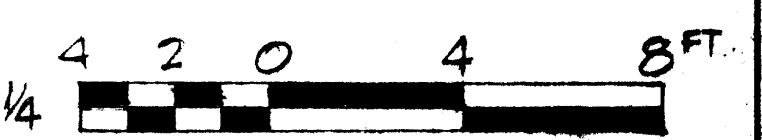
SLUDGE PUMP STATION PLAN 1/4" = 1'-0"



1 DETAIL 1/2" = 1'-0"



2 SECTION 3" = 1'-0"



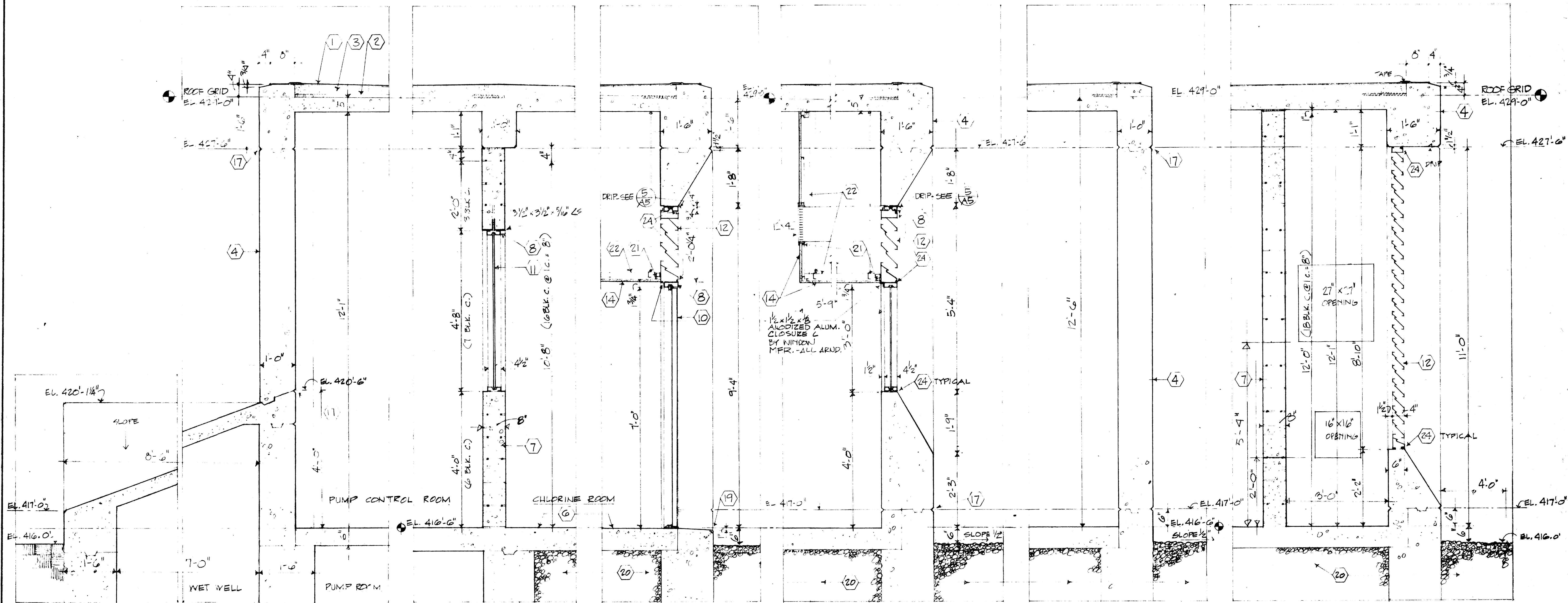
AS BUILT

AS BUILT  
 231  
 DESIGNED BY: TK  
 MADE BY: TM  
 CHECKED BY: DPF

IN CHARGE OF: TK  
 DESIGNED BY: TM  
 MADE BY: TM  
 CHECKED BY: DPF

	ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT <b>SLUDGE PUMP STATION          FLOOR &amp; ROOF PLANS</b>		
	MACKNIGHT - KIRRMISE - FRENCH & SIZING CONSULTING ARCHITECTS 644 NORTH ROAD SYRACUSE, N. Y., 13206	O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK DATE: FEBRUARY 14, 1968 SCALE: AS NOTED FILE NO.: 115.149-8F	





SECTION 1  
3/4" = 1'-0" AB

SECTION 2  
3/4" = 1'-0" AB

SECTION 3  
3/4" = 1'-0" AB

SECTION 4  
3/4" = 1'-0" AB

SECTION 5  
3/4" = 1'-0" AB

SECTION 6  
3/4" = 1'-0" AB

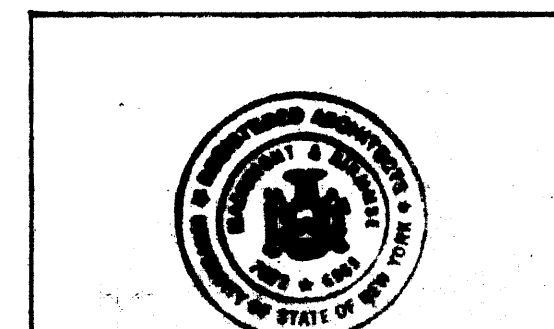
SLUDGE PUMP STATION



AS BUILT

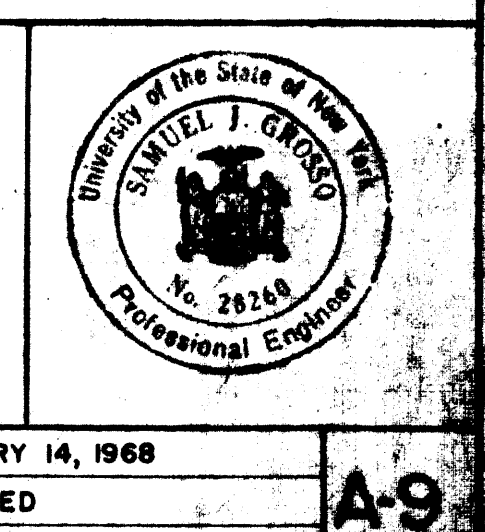
- |                      |                               |                            |                                      |                     |
|----------------------|-------------------------------|----------------------------|--------------------------------------|---------------------|
| 1 MEMBRANE ROOFING   | 7 CONC. BLOCK                 | 13 A.T.                    | 19 CURB BAR                          | 25 MIN. QUARRY TILE |
| 2 INSULATION         | 8 EXTRU. ALUM. FRAME          | 14 PLASTER                 | 20 See Note Sht. A-4                 | 26 VINYL            |
| 3 LIGHT WEIGHT CONC. | 9 H.M. FRAME                  | 15 STEEL ROLL-UP DOOR      | 21 3/4" FURRING IS,                  |                     |
| 4 POURED CONCRETE    | 10 H.M. DOOR                  | 16 ALUM. THRESHOLD         | 22 1/2" RUNNER IS,                   |                     |
| 5 PRE-CAST CONCRETE  | 11 GLASS                      | 17 "V" JOINT (1/2" x 3/8") | 23 QUARRY TILE (ABRASIVE @ EXTERIOR) |                     |
| 6 CONC. SLAB         | 12 EXTRU. ALUM. LOUVER BY C-4 | 18 MEMBRANE FLASHING       | 24 CALK & STOP                       |                     |

IN CHARGE OF: TK  
DESIGNED BY: TM  
MADE BY: TM, JM  
CHECKED BY: DPF



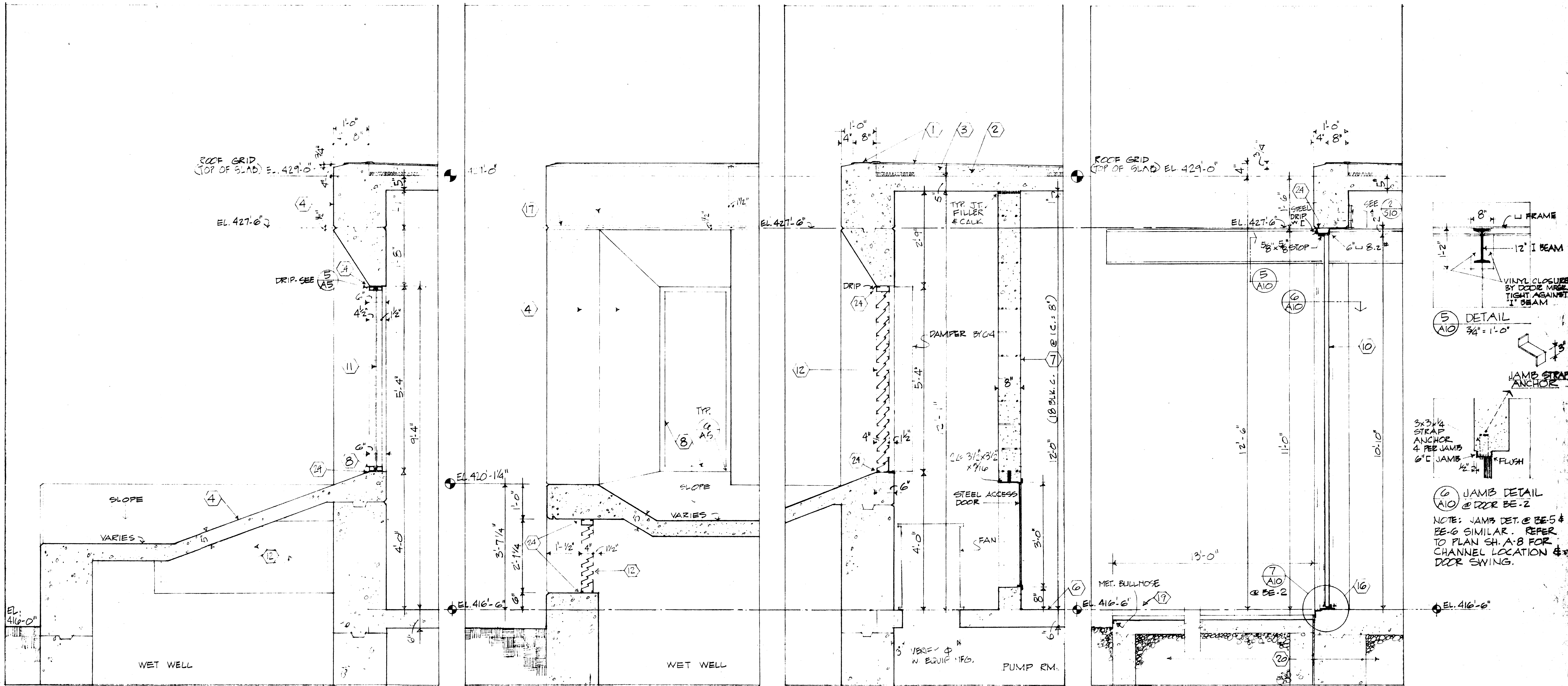
MACARTHUR, LINDNER, FRENCH & SIZIK  
CONSULTING ARCHITECTS  
28 7/7/72  
13/28/02

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT  
**SLUDGE PUMP STATION**  
**WALL SECTIONS**  
O'BRIEN & GERE  
CONSULTING ENGINEERS AND SURVEYORS  
SYRACUSE, NEW YORK



DATE: FEBRUARY 14, 1968  
SCALE: AS NOTED  
FILE NO.: 15.11-9F  
A-9





SECTION 1  
3/4" = 1'-0" (A-B)

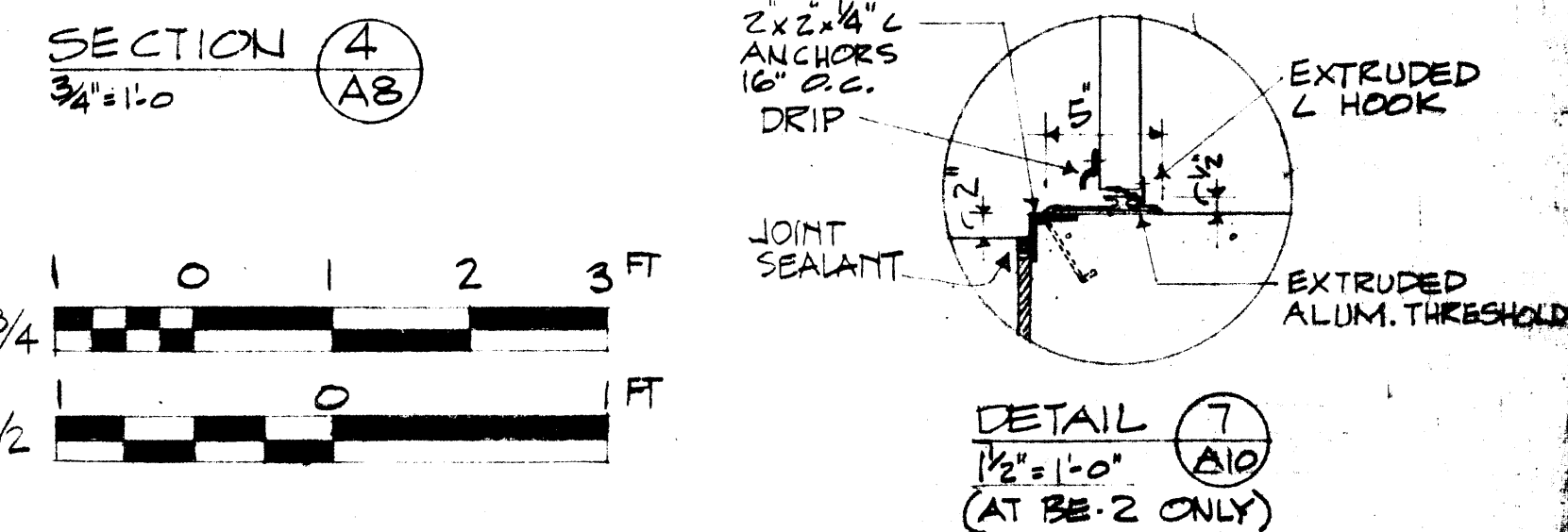
SECTION 2  
3/4" = 1'-0" (A-B)

SECTION 3  
3/4" = 1'-0" (A-B)

SECTION 4  
3/4" = 1'-0" (A-B)

SLUDGE PUMP STATION

AS BUILT



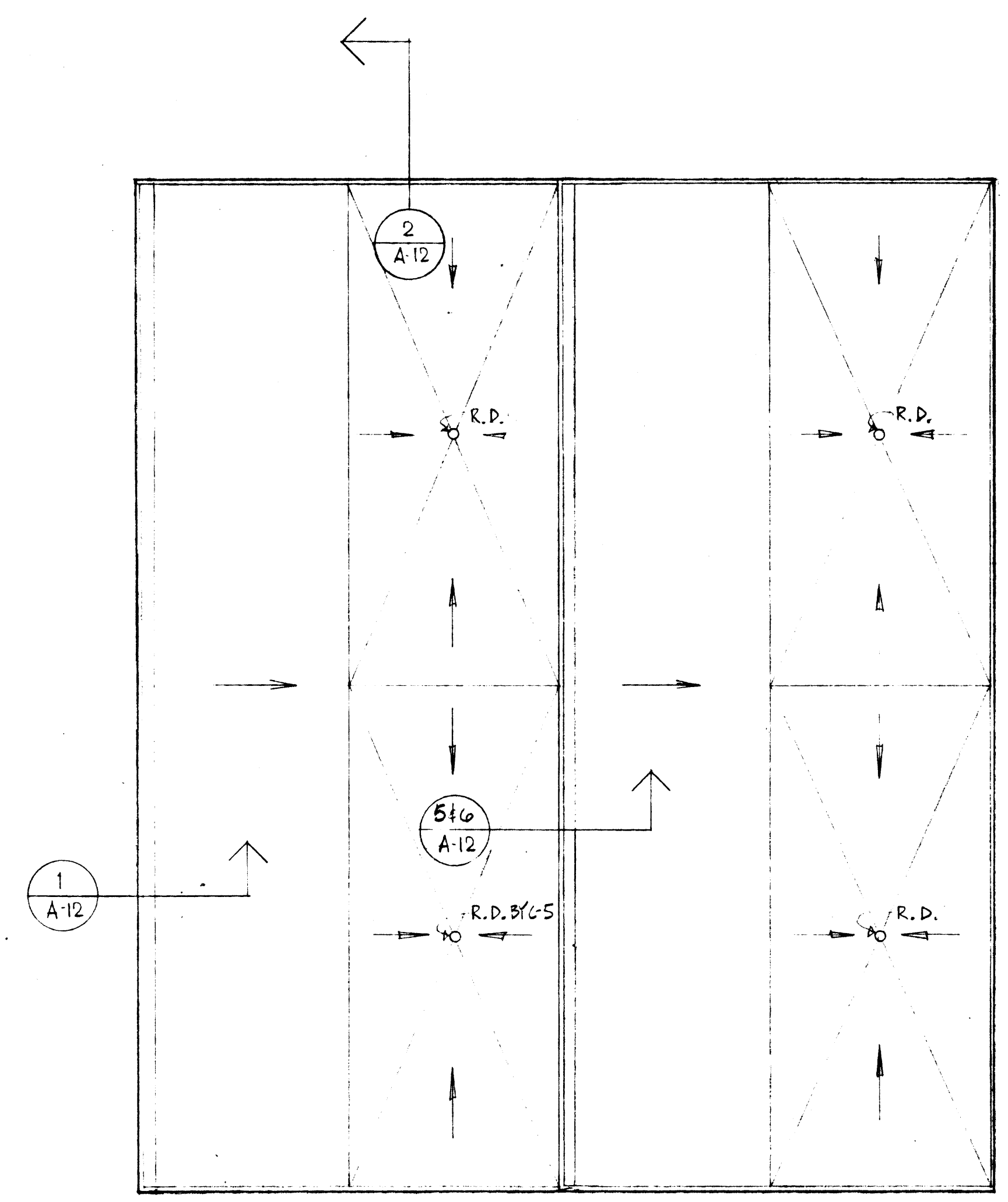
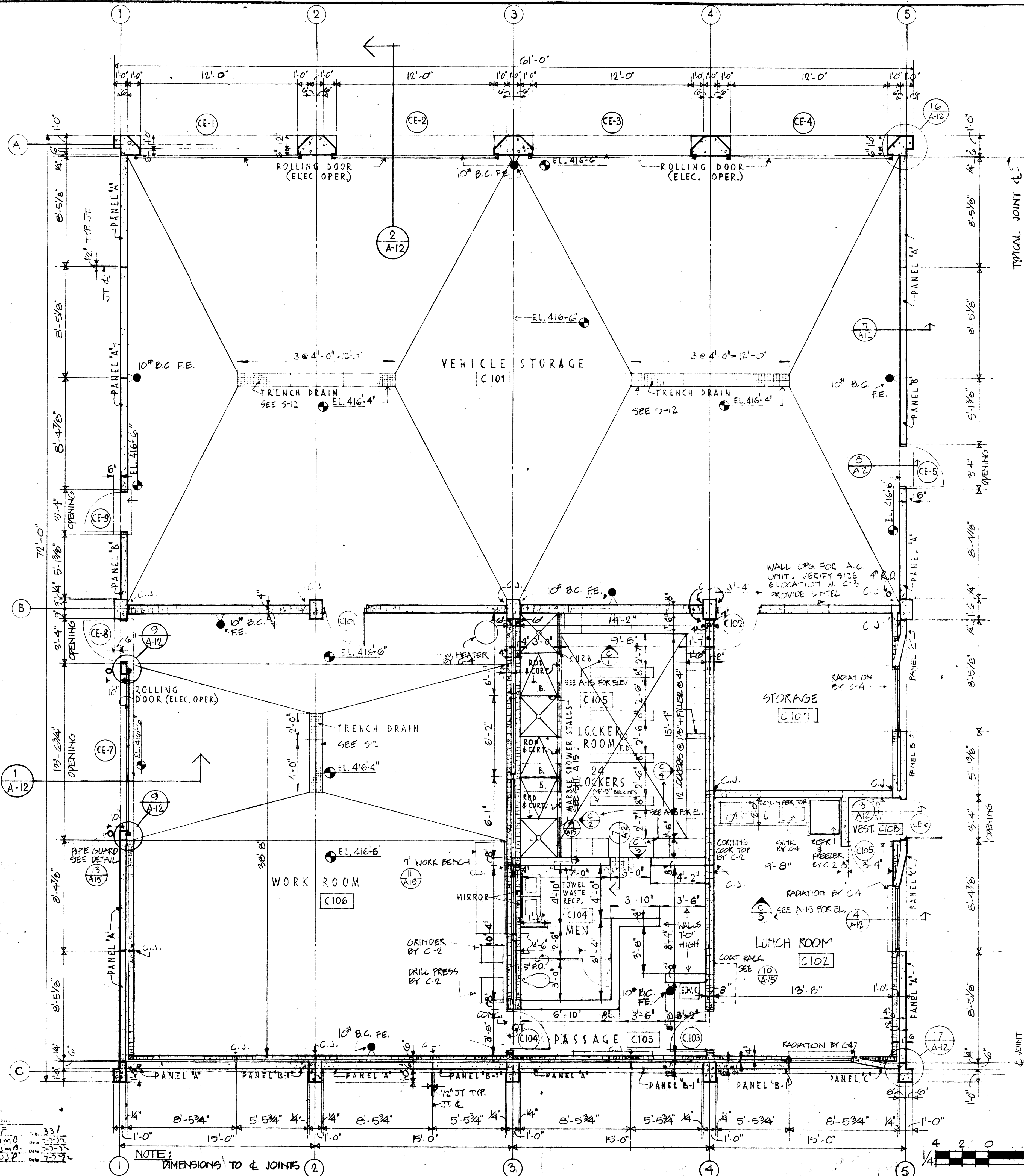
DETAIL 7  
1/2" = 1'-0" (AT BE-2 ONLY)

- |                             |                               |                            |                                      |                     |
|-----------------------------|-------------------------------|----------------------------|--------------------------------------|---------------------|
| 1 ELASTOMERIC SHEET ROOFING | 7 CONG. BLOCK                 | 13 A.T.                    | 19 CURB BAR                          | 25 MIN. QUARRY TILE |
| 2 INSULATION                | 8 EXTRU. ALUM. FRAME          | 14 PLASTEEL                | 20 See Note Sht. A-4                 | 26 VINYL            |
| 3 LIGHT WEIGHT CONG.        | 9 H.M. FRAME                  | 15 STEEL ROLL-UP DOOR      | 21 3/4" FURRING B.                   |                     |
| 4 POURED CONCRETE           | 10 H.M. DOOR                  | 16 ALUM. THRESHOLD         | 22 1/2" RUNNER B.                    |                     |
| 5 PRE-CAST CONCRETE         | 11 GLASS                      | 17 "V" JOINT (1/2" x 3/4") | 23 QUARRY TILE (ADHESIVE @ EXTERIOR) |                     |
| 6 CONG. SLAB                | 12 EXTRU. ALUM. LOUVER BY C-2 | 18 MEMBRANE FLASHING       | 24 CALK STOP                         |                     |

IN CHARGE OF: TK  
DESIGNED BY: TM  
MADE BY: TM  
CHECKED BY: DFP

	ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT <b>TREATMENT PLANT</b> <b>SLUDGE PUMP STATION</b> <b>WALL SECTIONS</b>	DATE: FEBRUARY 14 1968 SCALE: AS NOTED FILE NO.: 1534-10F
	O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS 575 JEFFERSON ROAD SYRACUSE, N. Y. 13204	REVISIONS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



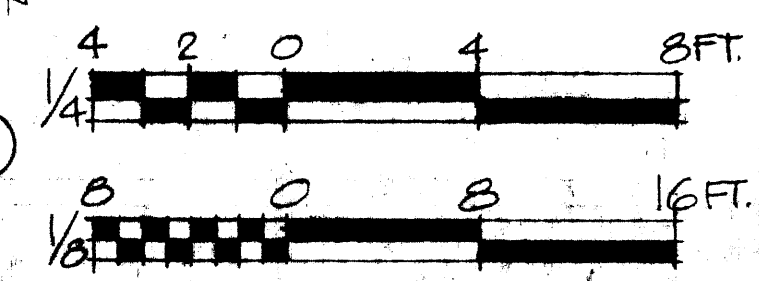


ROOF PLAN SCALE 1/8" = 1'-0"

AS BUILT

IN CHARGE OF: TK  
 DESIGNED BY: TM  
 MADE BY: TM, ZZ  
 CHECKED BY: DPF

NOTE: DIMENSIONS TO & JOINTS  
**GARAGE PLAN**  
 1/4" = 1'-0"



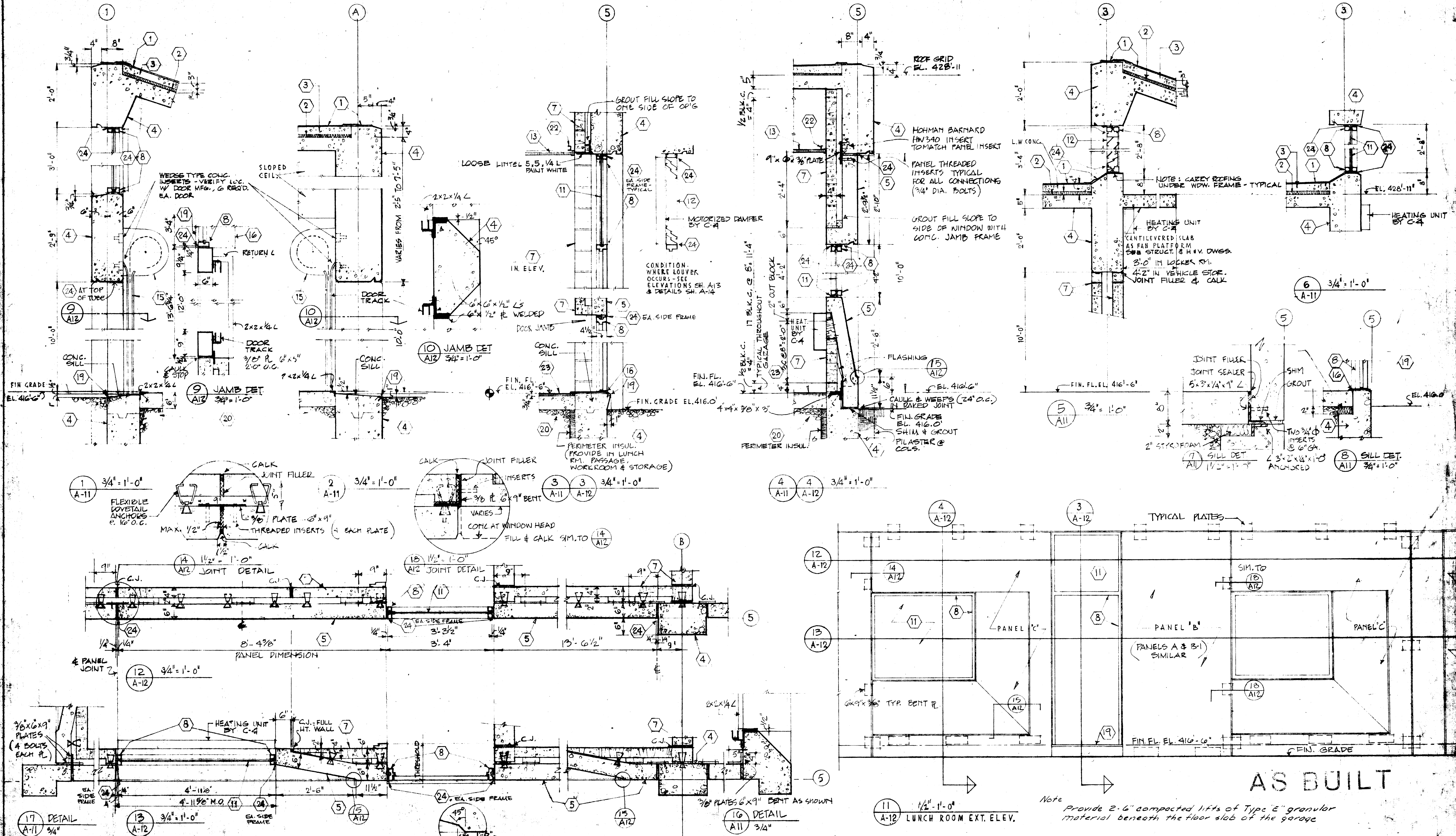
SEAL OF THE STATE OF NEW YORK  
 ARCHITECTS  
 MACKNIGHT - KIRKMAN - FRENCH & SIZING  
 CONSULTING ARCHITECTS  
 60 WILKINS ROAD  
 SYRACUSE, N. Y. 13205

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF DRAINAGE AND SANITATION  
 MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT  
**TREATMENT PLANT**  
**GARAGE**  
**FLOOR & ROOF PLANS**  
 O'BRIEN & GERE  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 SYRACUSE, NEW YORK  
 DATE: FEBRUARY 14, 1968  
 SCALE: AS NOTED  
 FILE NO.: 115.149-11F

SEAL OF THE STATE OF NEW YORK  
 ENGINEER  
 STANLEY J. GROSSO  
 No. 28260  
 Professional Engineer

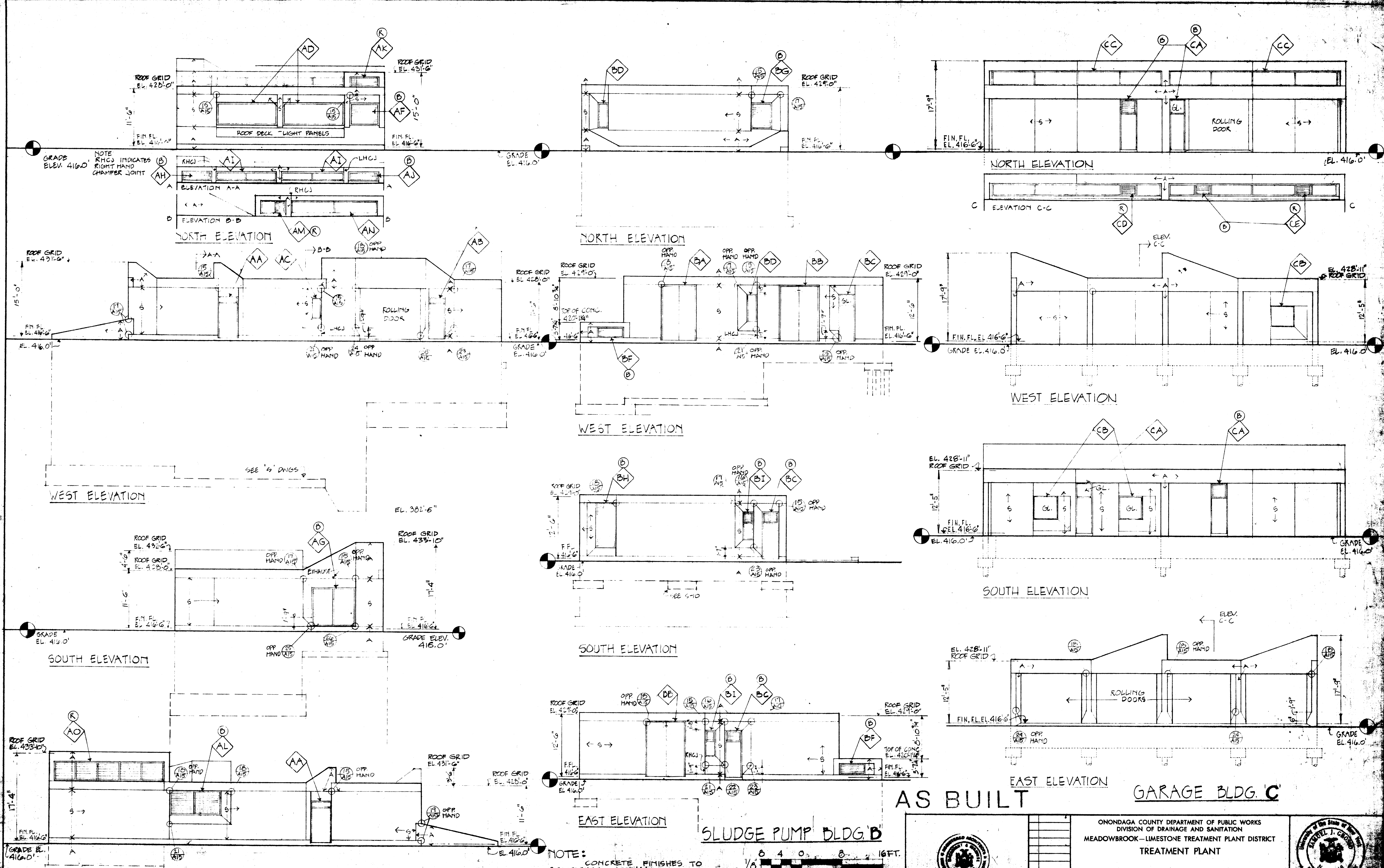
A-11





<p>AS BUILT</p> <p>IN CHARGE OF: TK          DESIGNED BY: TM          CHECKED BY: ZZZ          DRAWN BY: DPT</p>	<p>1 ELASTOMERIC SHEET ROOFING          2 INSULATION          3 LIGHT WEIGHT CONCRETE          4 POURED CONCRETE          5 PRE-CAST CONCRETE          6 CONC. SLAB</p>	<p>7 CONC. BLOCK          8 EXTRU. ALUM. FRAME          9 H.M. FRAME          10 H.M. DOOR          11 GLASS          12 EXTRU. ALUM. LOUVER BY C-4</p>	<p>13 A.T.          14 PLASTER          15 STEEL ROLL-UP DOOR          16 ALUM. THRESHOLD          17 'V' JOINT 1 1/2" x 3/4"          18 MEMBRANE FLASHING</p>	<p>19 CURB BAR          20 See Note Sht A-4          21 3/4" FURRING ES          22 1 1/2" RUNNER D          23 QUARRY TILE (ABRASIVE &amp; ANTI-SKID)          24 CAULK STOP</p>	<p>25 MINATURE QUARRY TILE          26 VINYL</p>	<p>ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS          DIVISION OF DRAINAGE AND SANITATION          MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT  <b>TREATMENT PLANT GARAGE WALL SECTIONS</b>          O'BRIEN &amp; GERE          CONSULTING ENGINEERS AND SURVEYORS          575 N. STATE ST.          SYRACUSE, N.Y. 13202          DATE: FEBRUARY 14, 1988          SCALE: AS NOTED          P.L.S. 2-18-88</p>
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IN CHARGE OF: TK  
 DRAWING NO.: TM 22  
 MADE BY: TM 22  
 CHECKED BY: JMS  
 DATE: 2/2/72

**INFLUENT PUMP BLDG. 'A'**  
 SCALE ALL ELEVATIONS 1/8" = 1'-0"

**SLUDGE PUMP BLDG. 'B'**  
**AS BUILT**

**GARAGE BLDG. 'C'**  
**ELEVATIONS**

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF DRAINAGE AND SANITATION  
 MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT  
 TREATMENT PLANT

**O'BRIEN & GENE**  
 CONSULTING ENGINEERS AND SURVEYORS  
 100 N. W. 10th St., N.Y. 14203

DATE: FEBRUARY 2, 1972  
 SCALE: AS NOTED

NOTE: CONCRETE FINISHES TO BE EITHER TYPE 'A', SMOOTH FIN OR TYPE 'S', MODERATE SANDBLAST FINISH. ALL CHANGES IN FINISH TO OCCUR AT VEE JOINTS. GENERALLY TYPE 'S' OCCURS BETWEEN TOP & BOTTOM CONTIGUOUS HORIZONTAL VEE JOINTS FOR BRICKS.

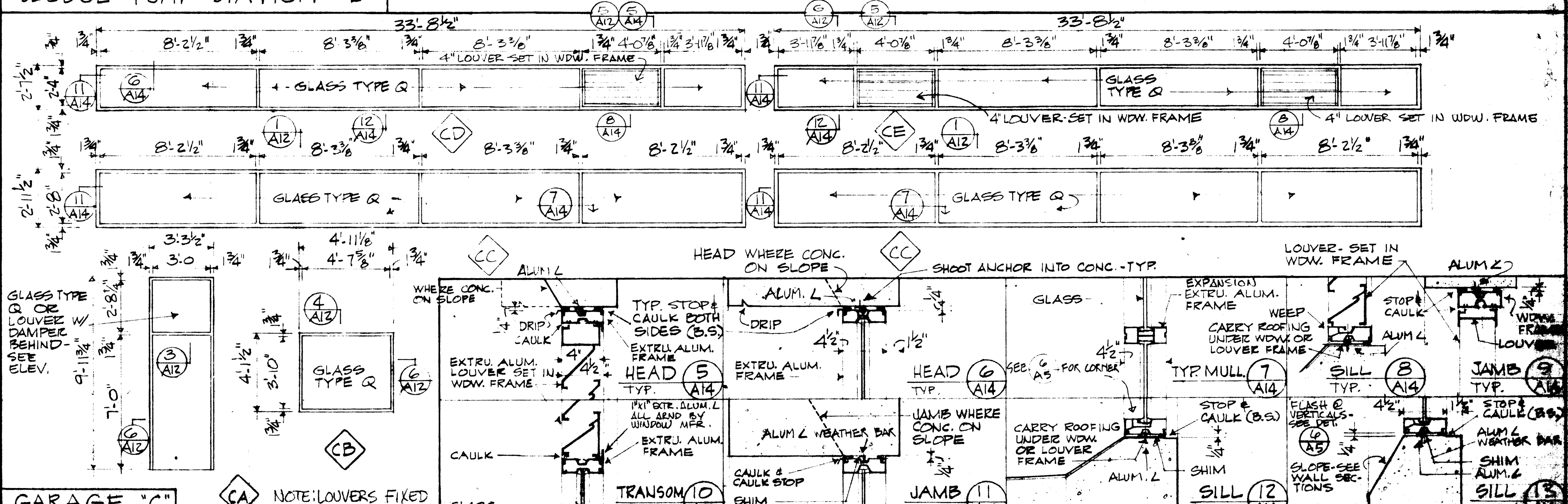
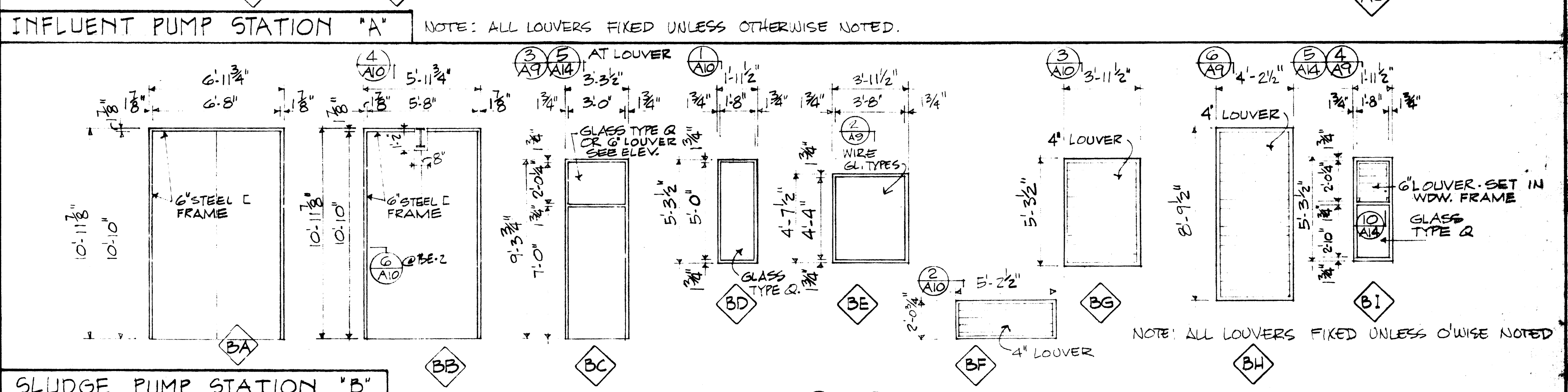
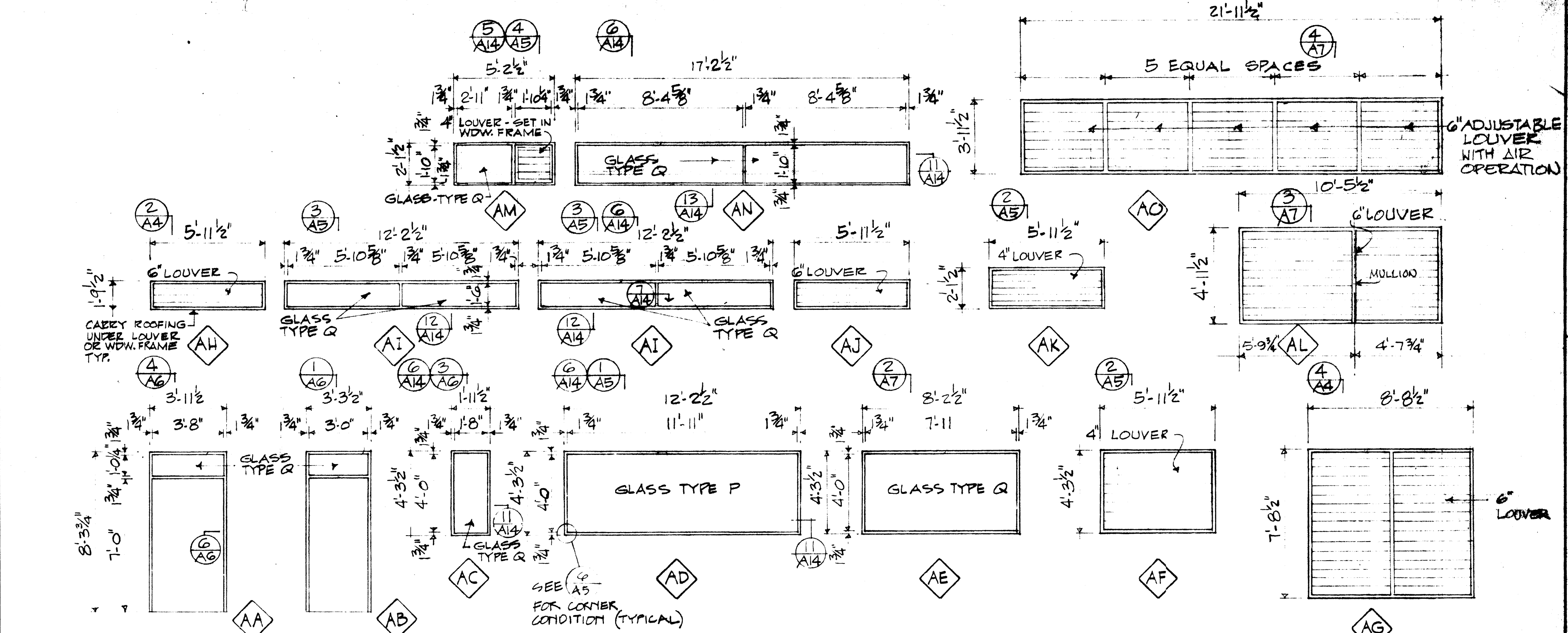
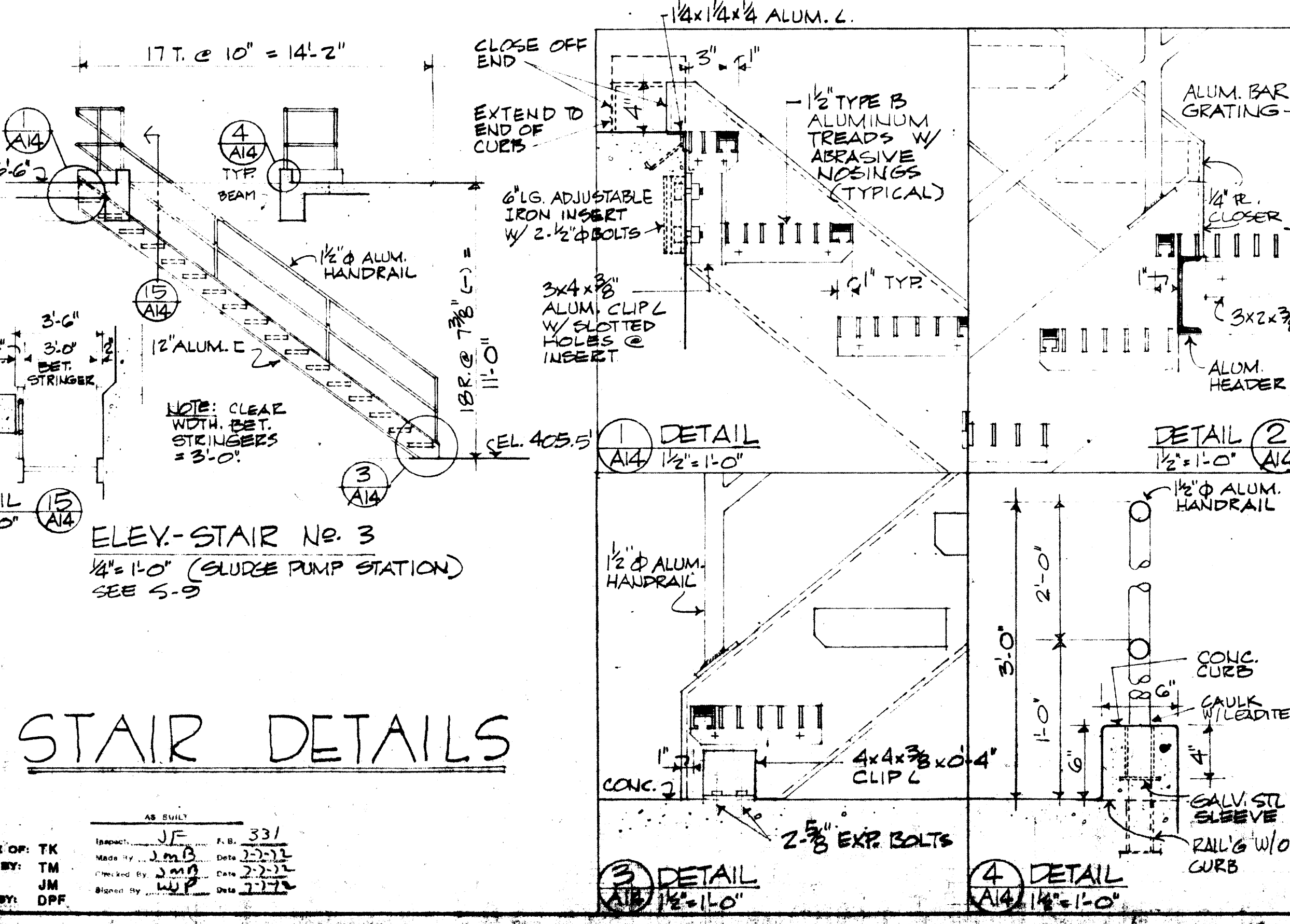
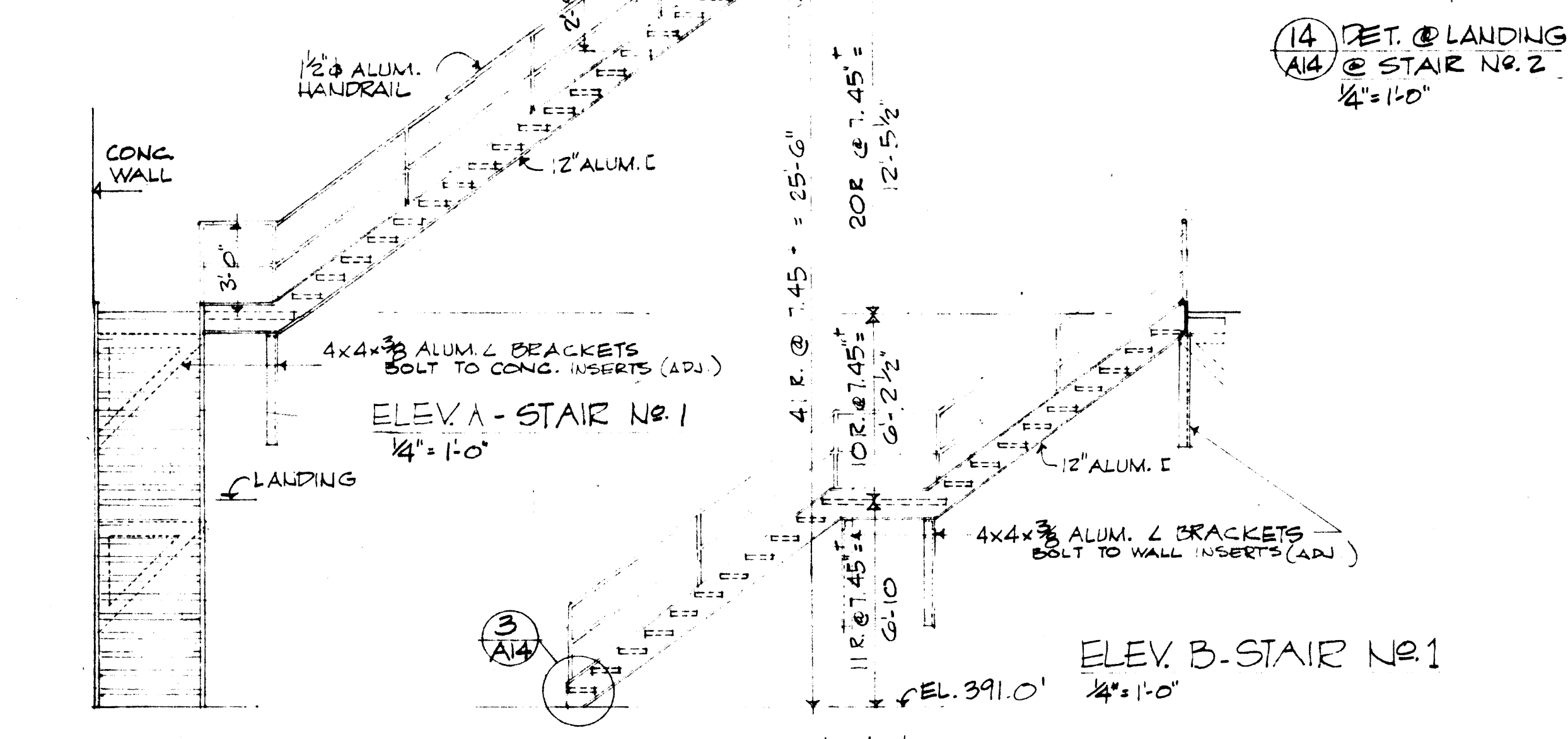
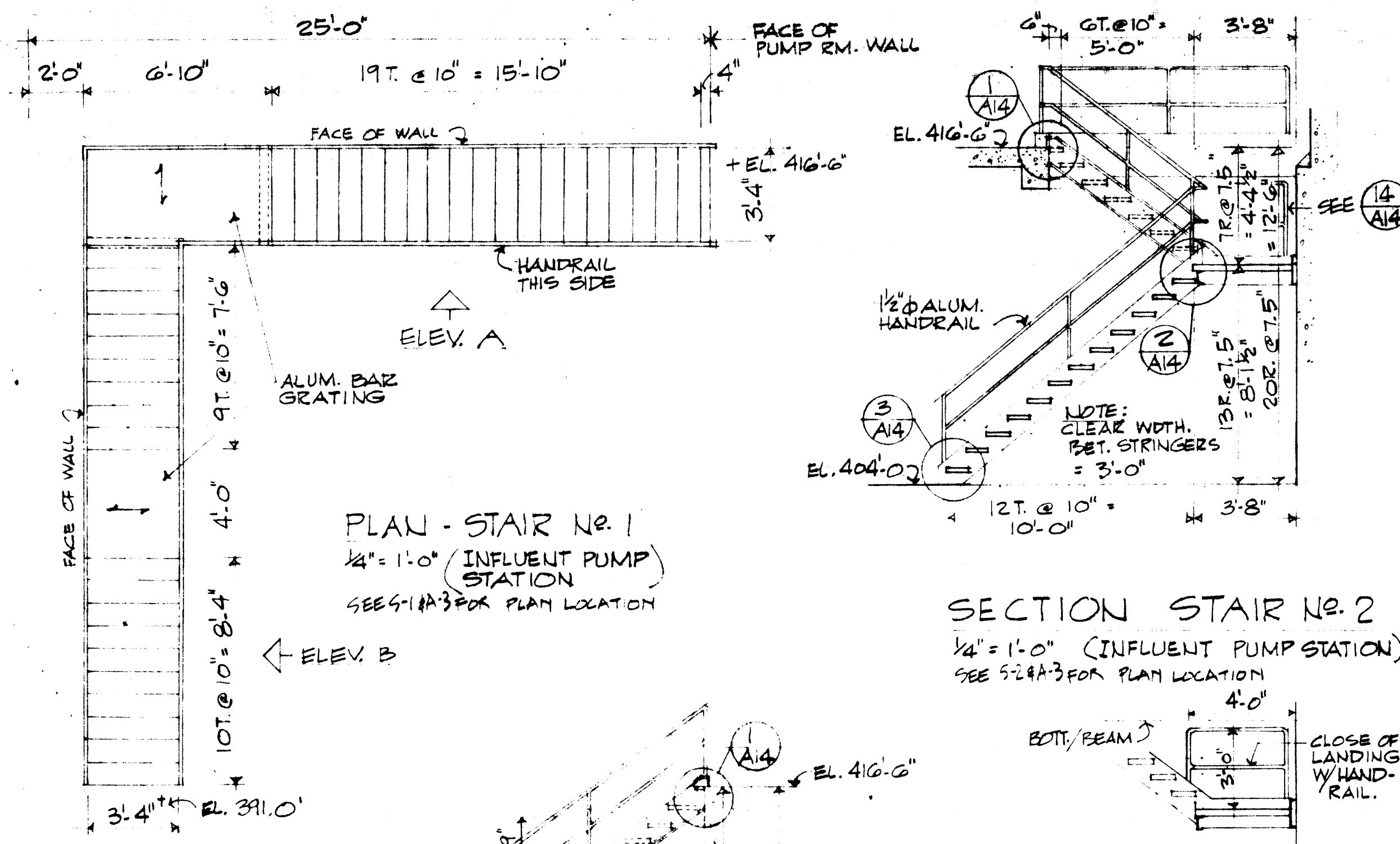
NOTE: LOWER COLOR SCHED. BOTH COLORS ARE PRIMARY.

1/8" = 1'-0" SCALE BAR

1/8" = 1'-0" SCALE BAR

1/8" = 1'-0" SCALE BAR





**AS BUILT**  
**ELEVATIONS & DETAILS ALUM.**  
**WDW., LOUVERS, EXT. DOOR FRAMES**  
 SCALE: ELEVATIONS 1/4" = 1'-0"    DETAILS 1/2" = 1'-0"

NOTE: SEE ELEV. SH. A-13 FOR LOCATION SHOWN. THIS

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF DRAINAGE AND SANITATION  
 MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT

**TREATMENT PLANT**  
**STAIR DETAILS**  
**WINDOWS & ENTRANCES**

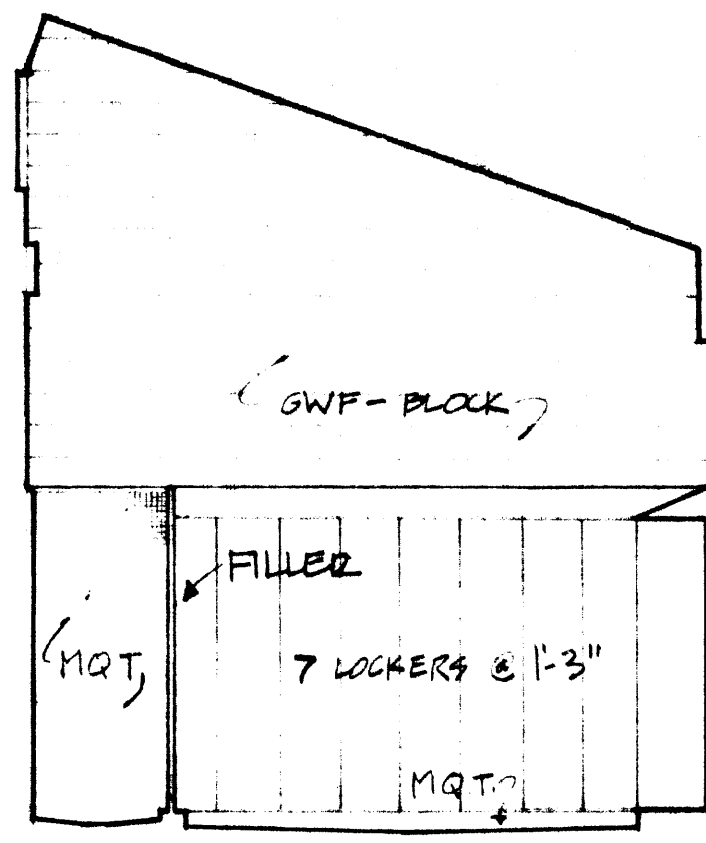
O'BRIEN & GIERE  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 1200 N. STATE ST. SUITE 200  
 SYRACUSE, N.Y. 13202

DATE: FEBRUARY 14, 1988  
 SCALE: AS NOTED  
 FILE NO.: 88-14

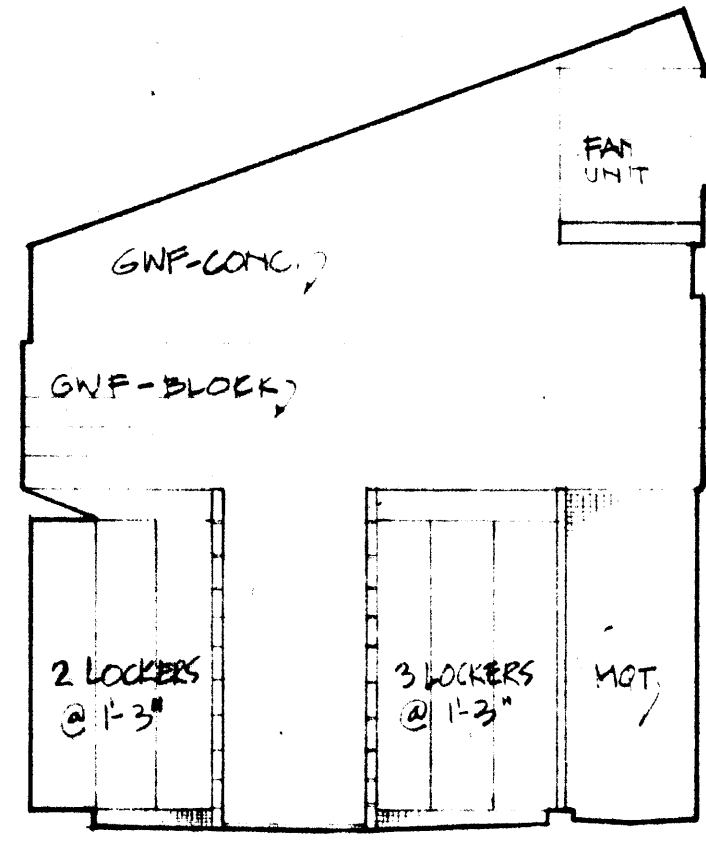
IN CHARGE OF: TK  
 DESIGNED BY: TM  
 MADE BY: JM  
 CHECKED BY: DPF

J.E. 33/  
 J.M.B. 2-2-88  
 J.M.P. 2-2-88  
 W.P. 2-2-88

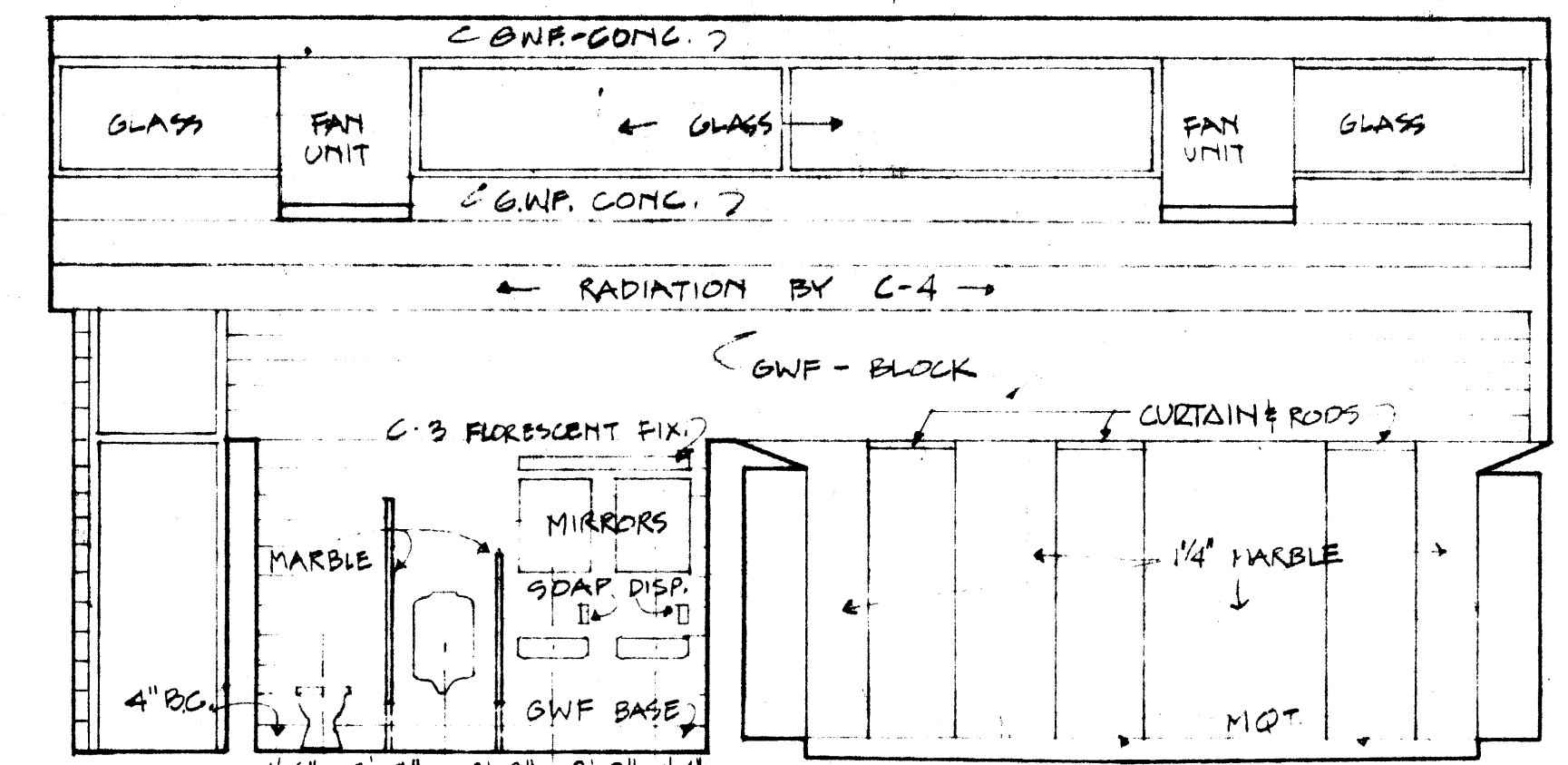




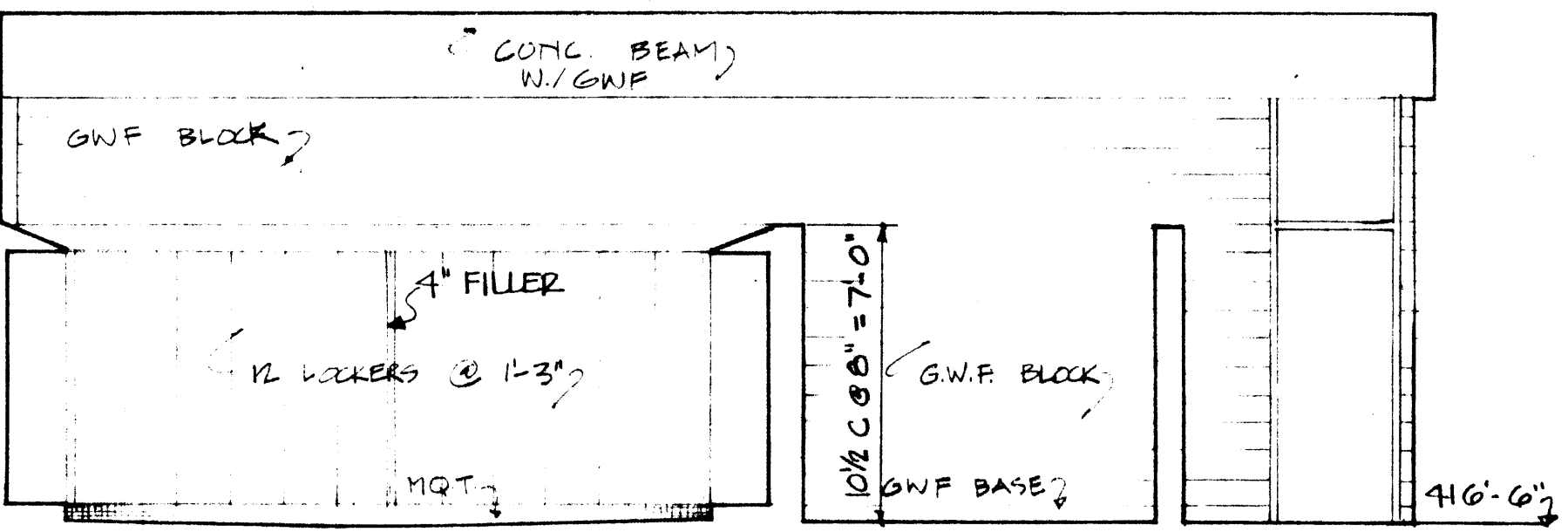
① ELEVATION LOCKER ROOM 1/4" = 1'-0"



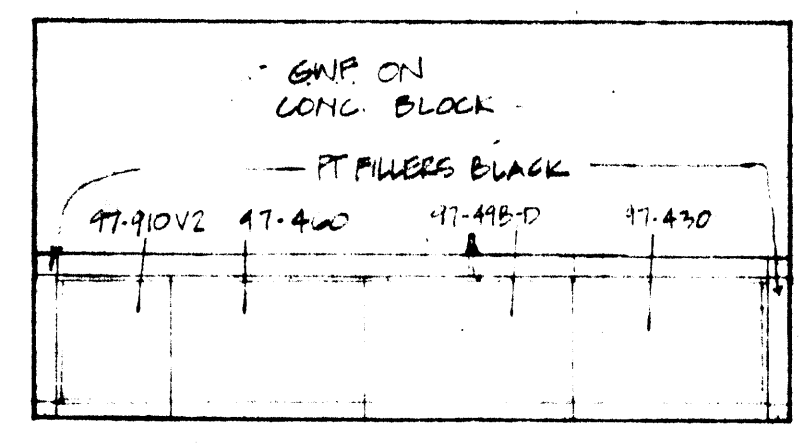
② ELEVATION LOCKER ROOM 1/4" = 1'-0"



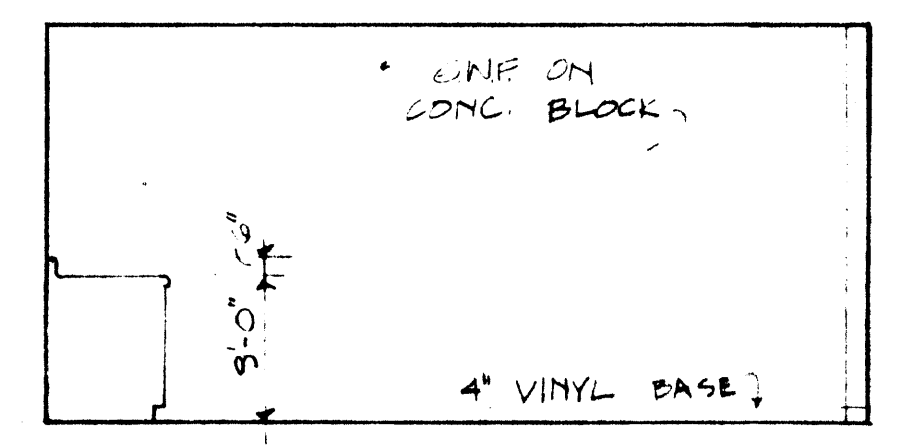
③ ELEVATION 1/4" = 1'-0" NOTE: FIXTURE HT. SEE ④ THIS SHEET



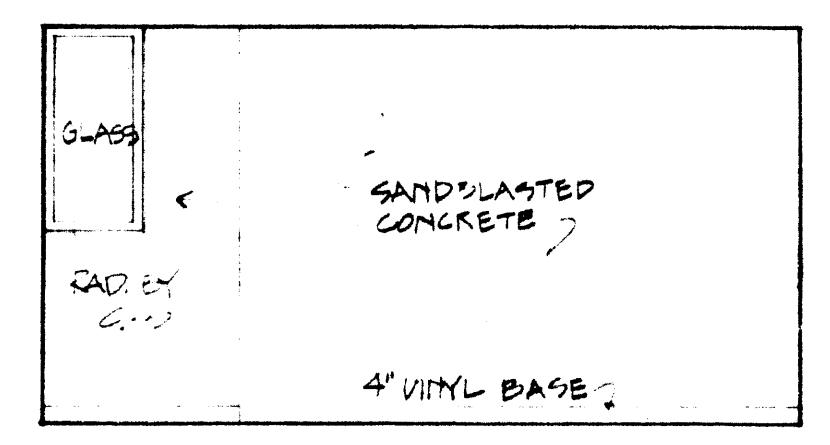
④ ELEVATION 1/4" = 1'-0"



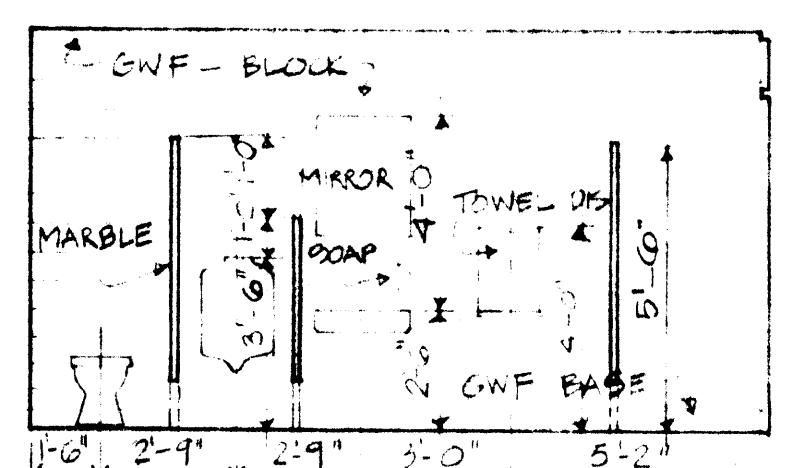
⑤ ELEVATION LABORATORY 1/4" = 1'-0"



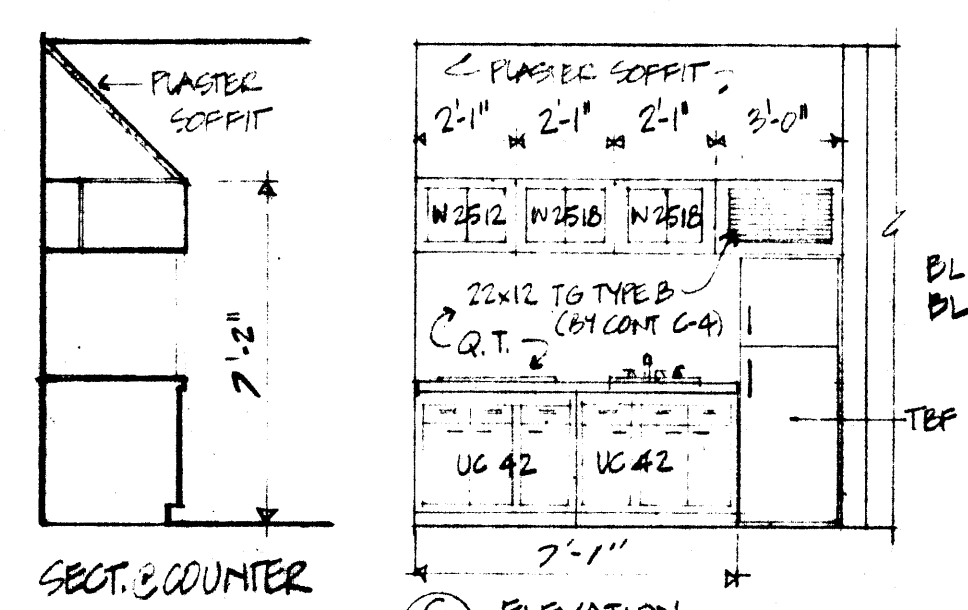
⑥ ELEVATION 1/4" = 1'-0"



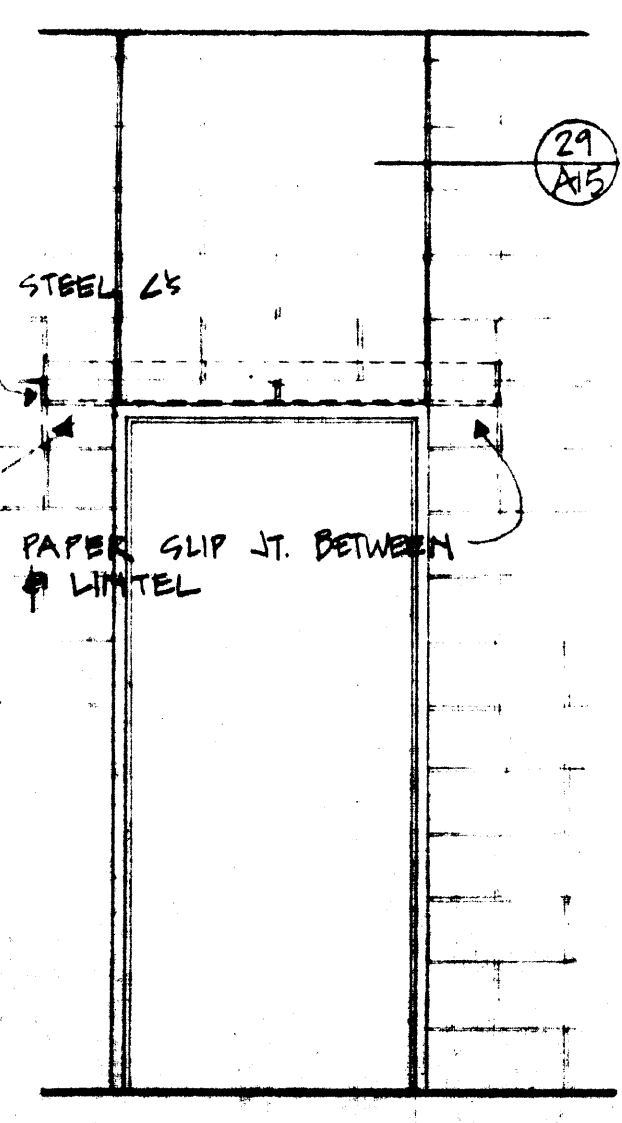
⑦ ELEVATION 1/4" = 1'-0"



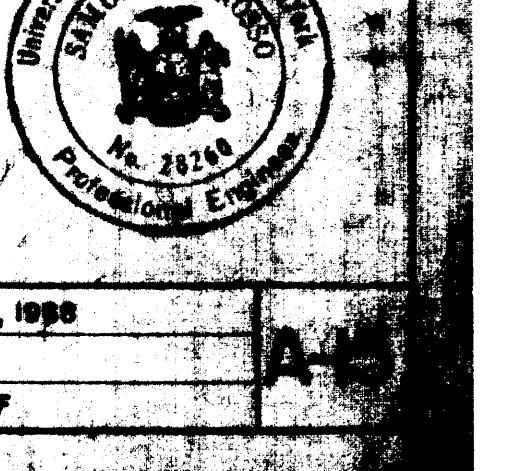
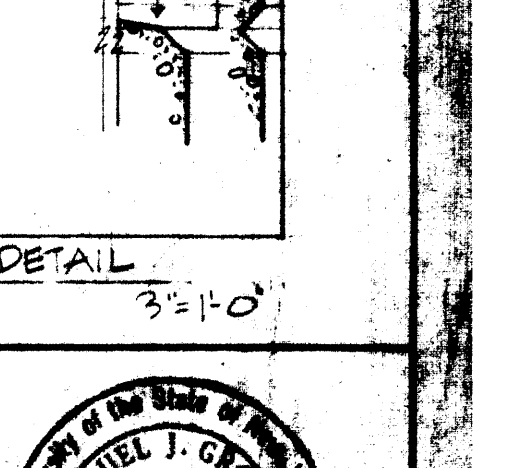
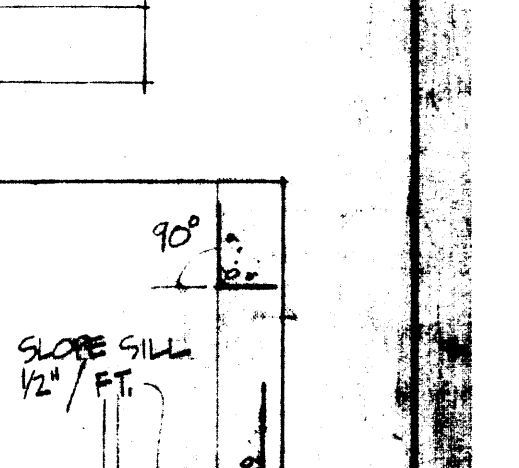
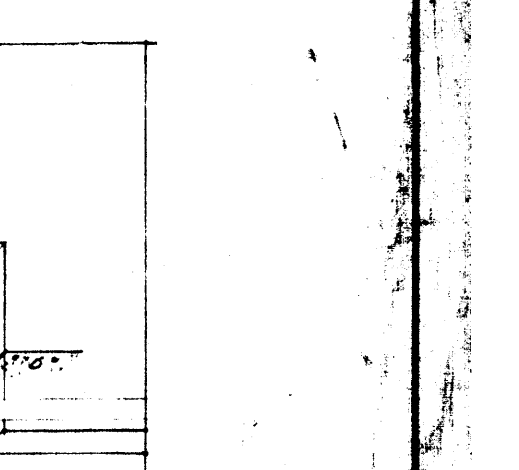
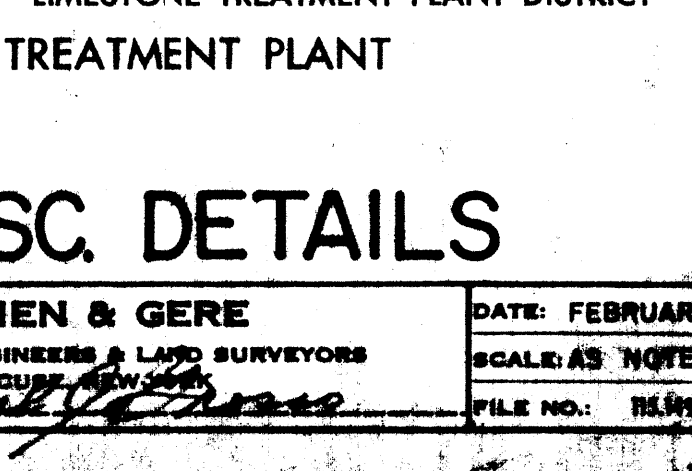
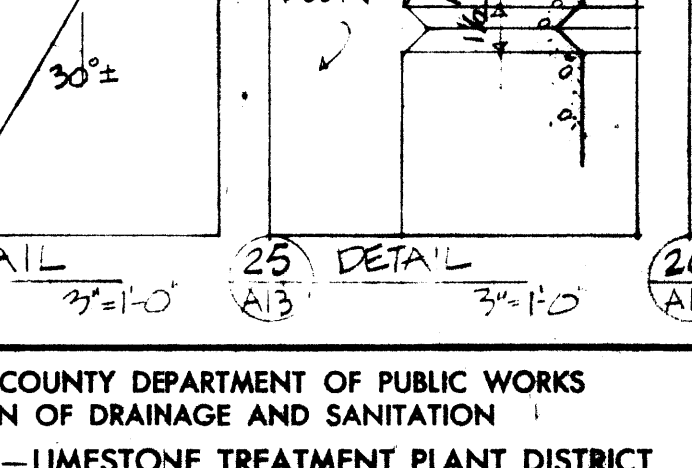
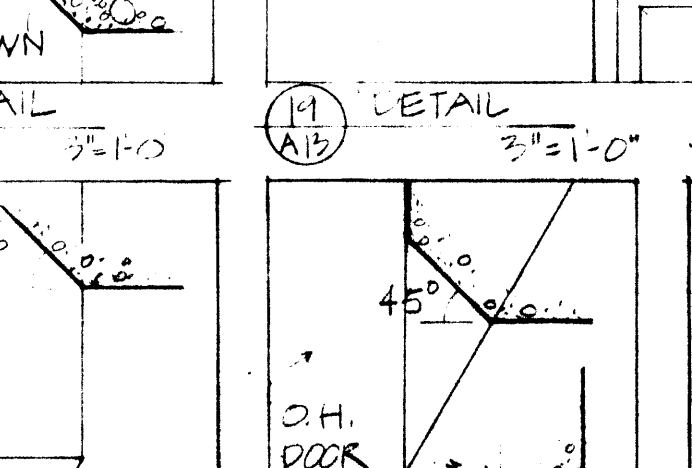
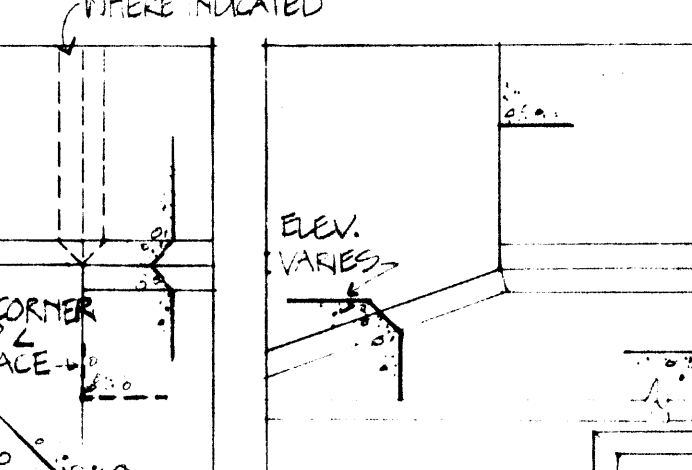
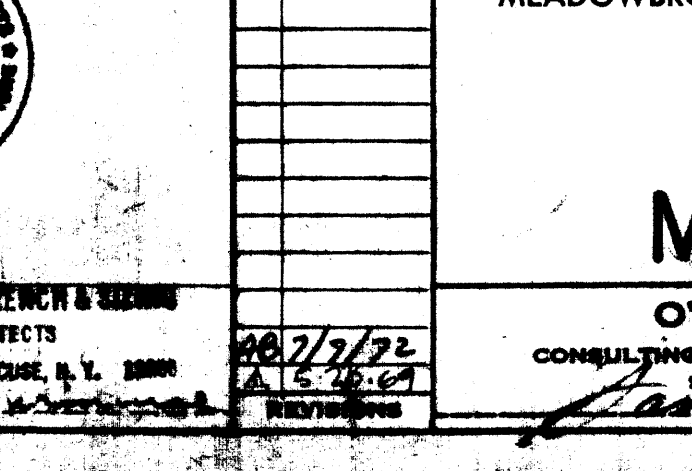
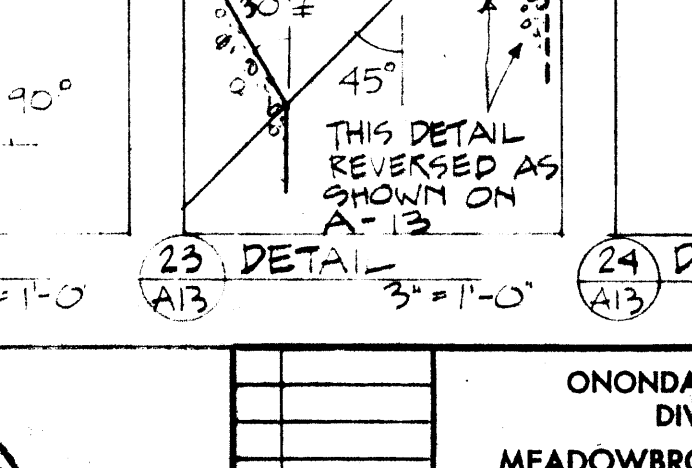
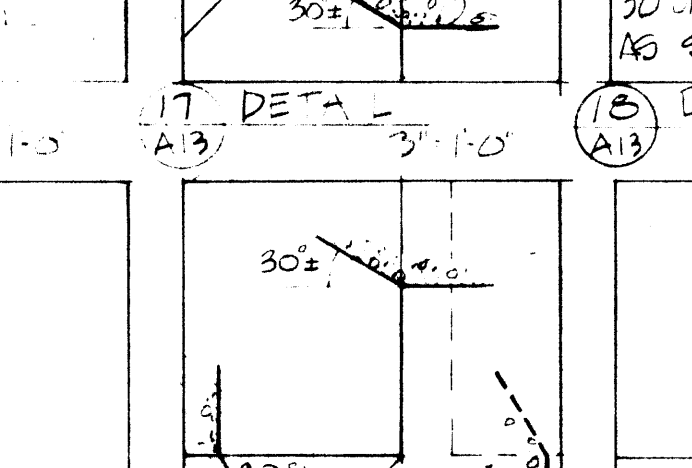
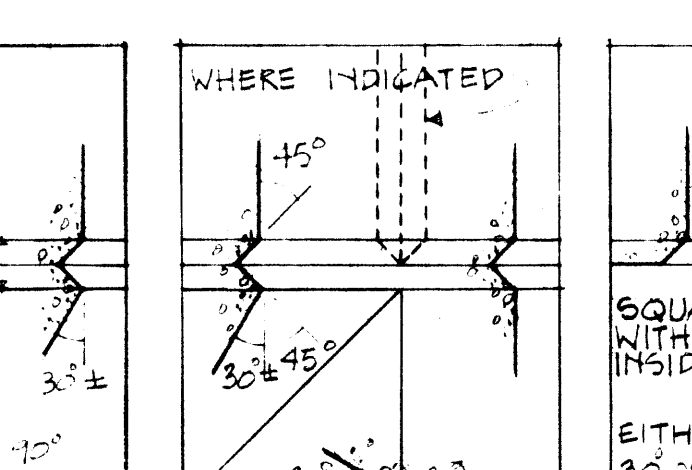
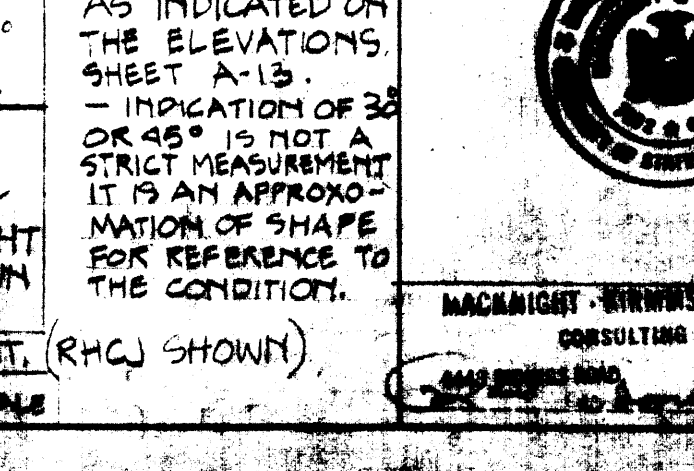
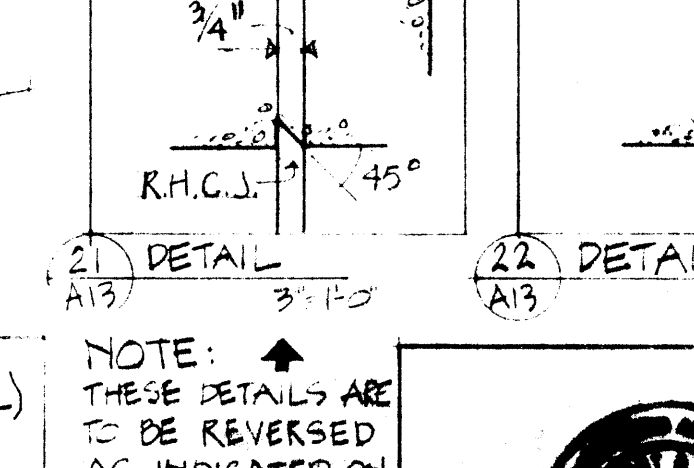
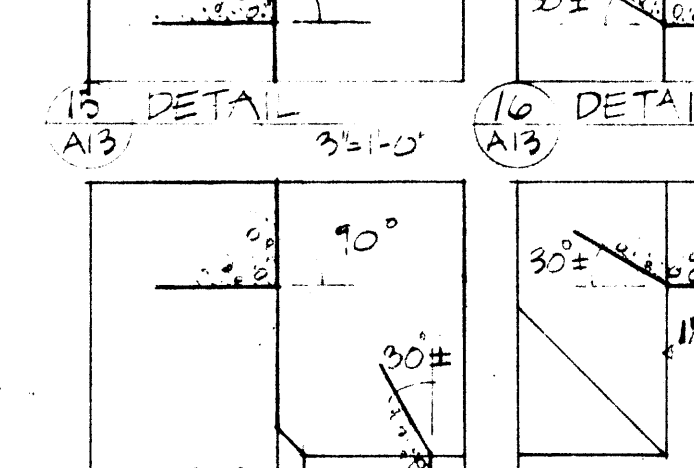
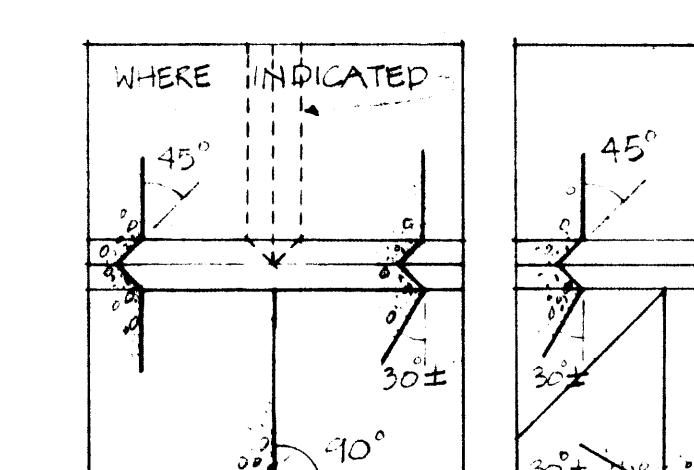
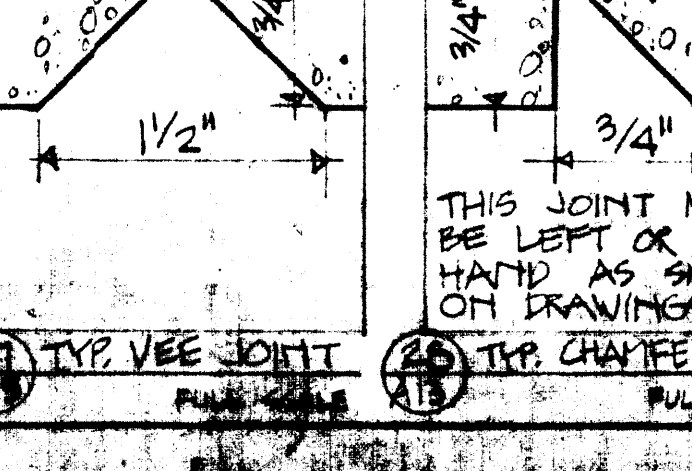
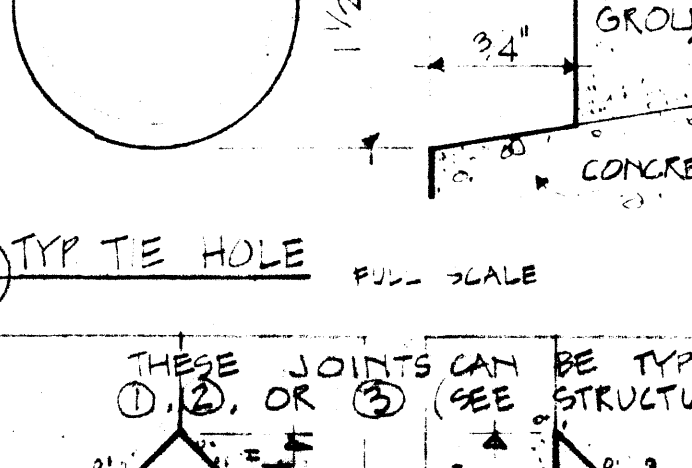
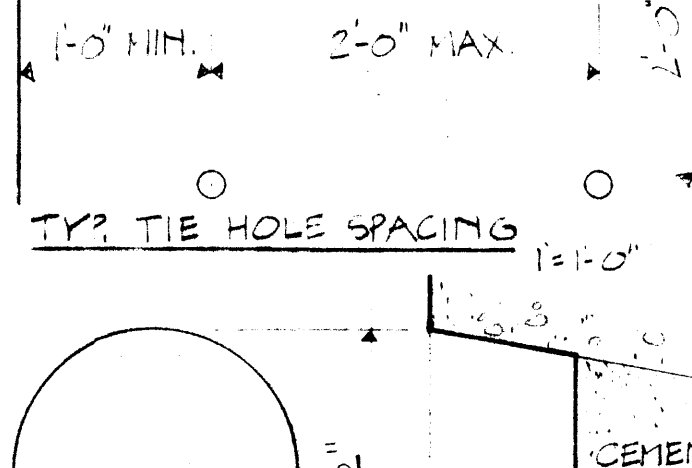
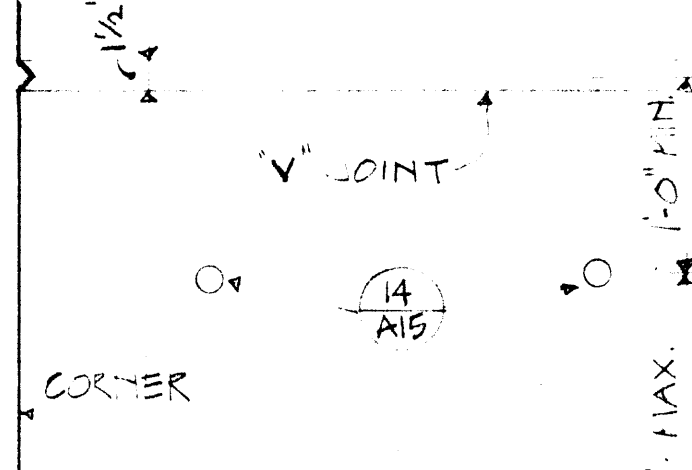
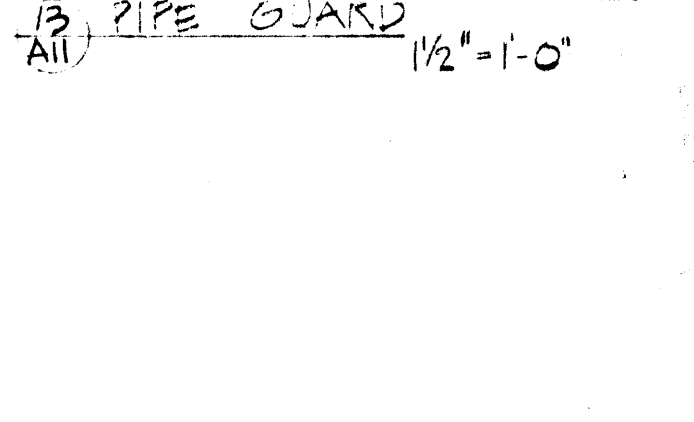
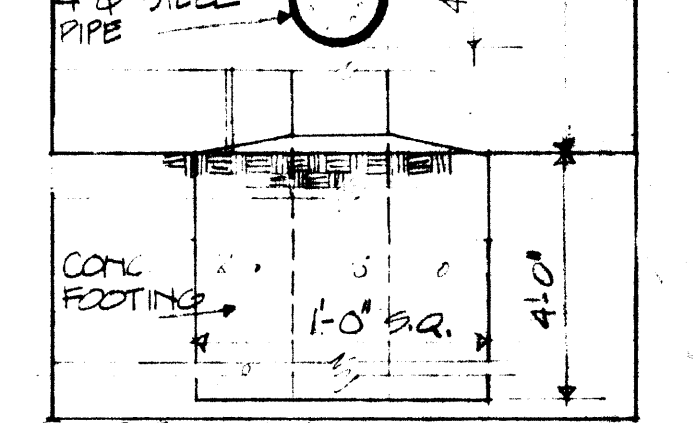
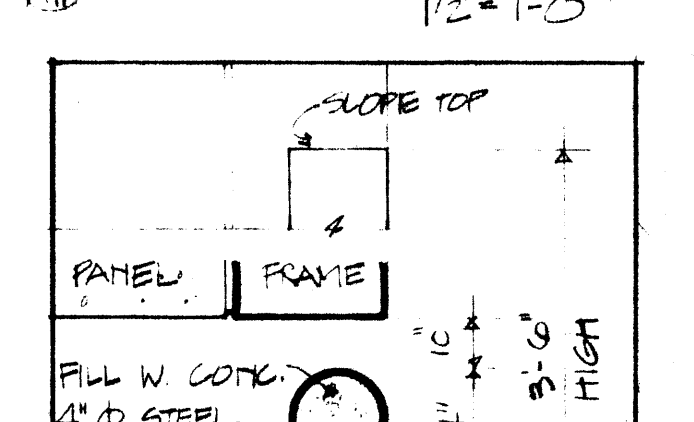
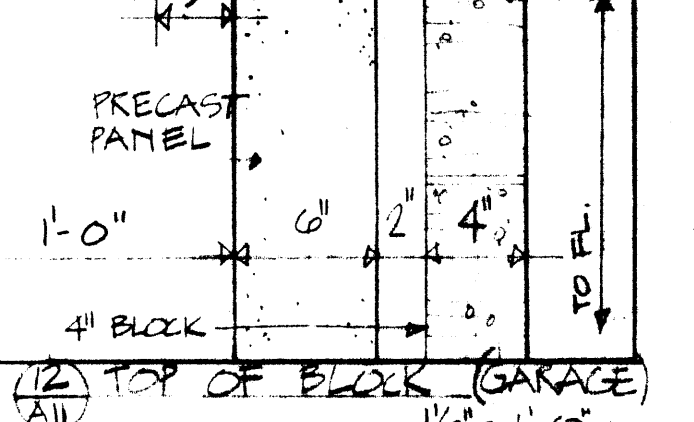
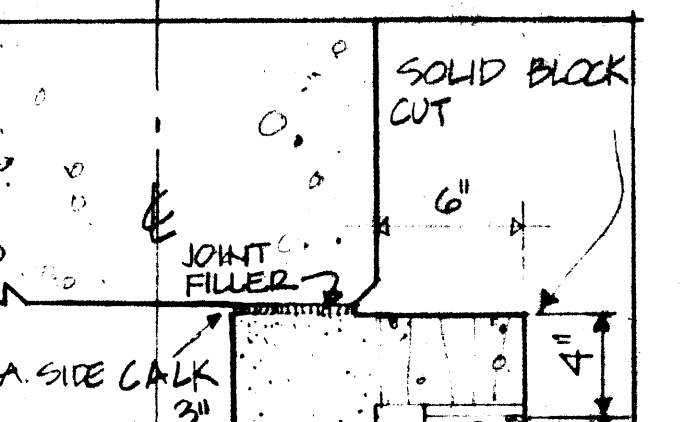
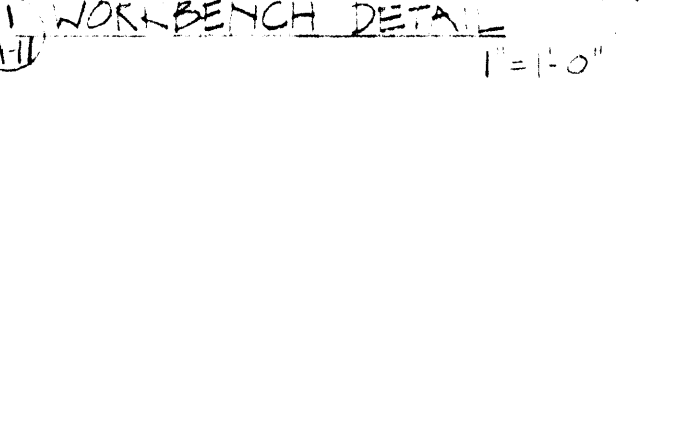
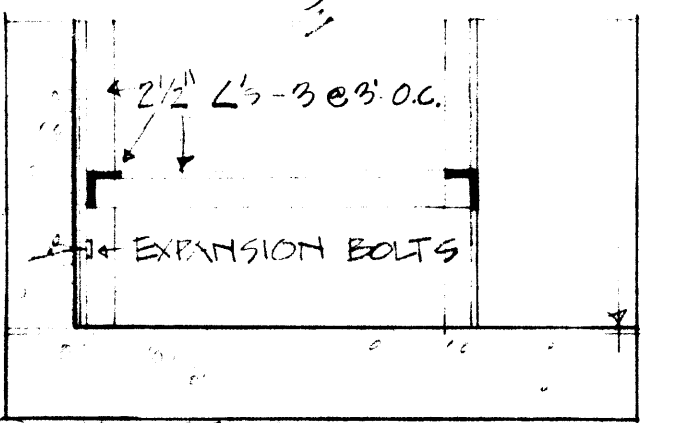
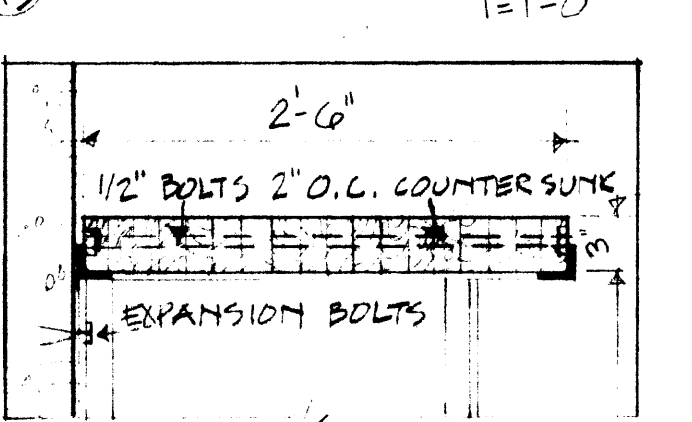
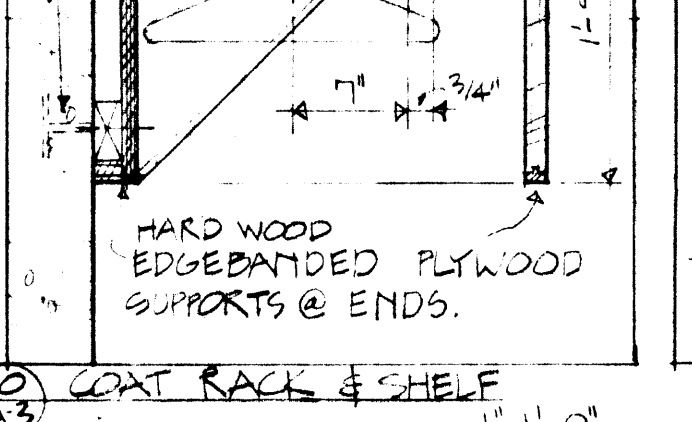
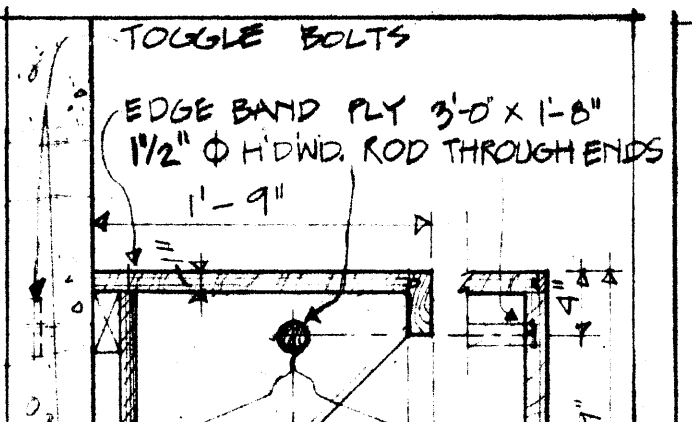
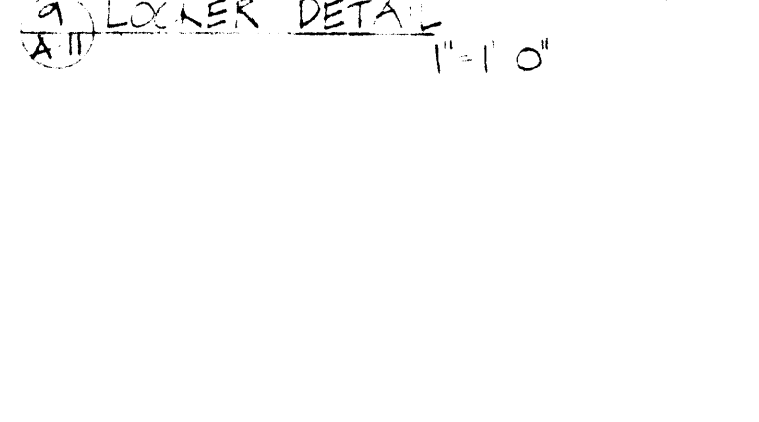
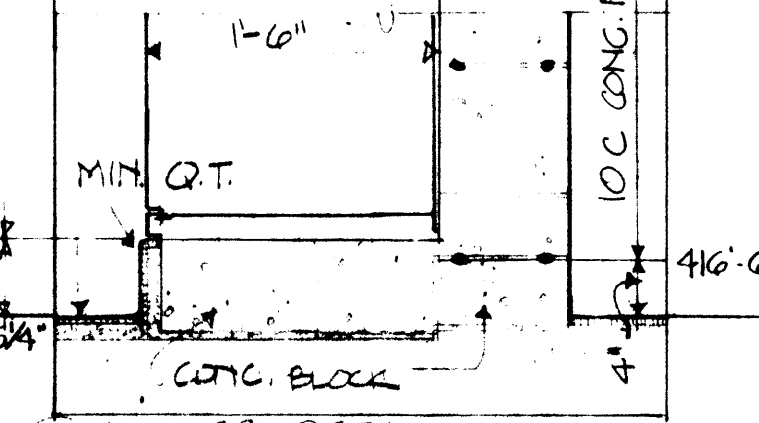
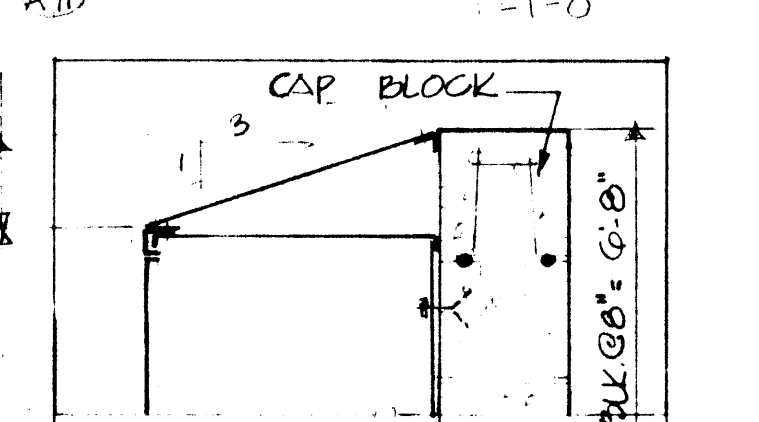
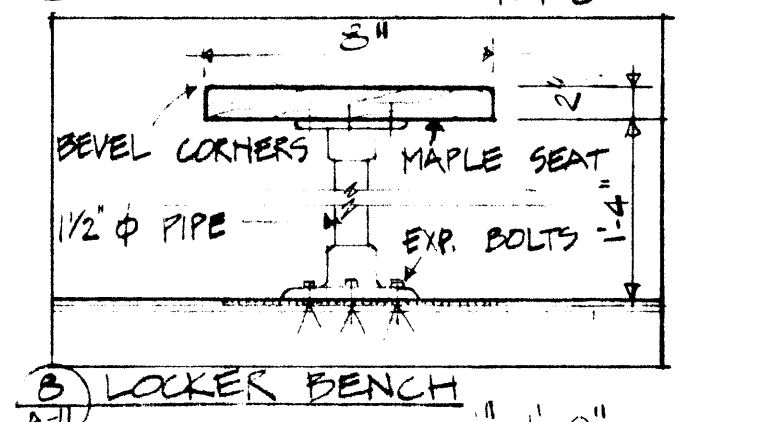
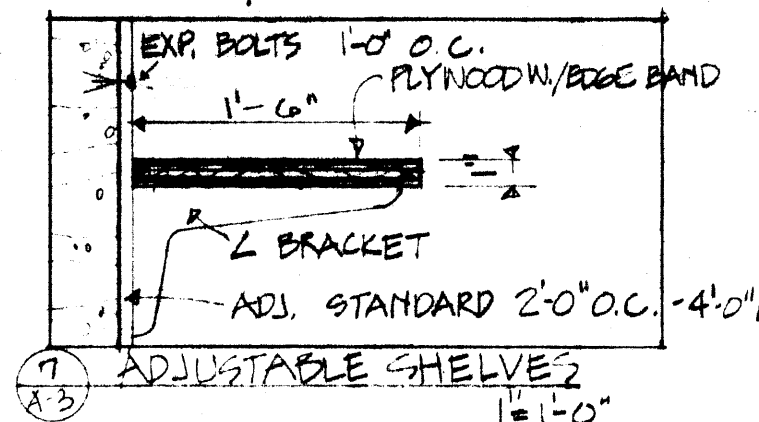
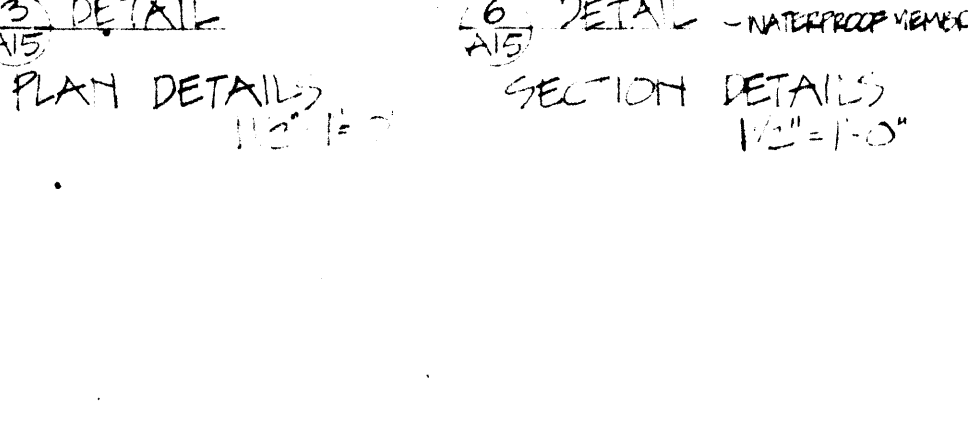
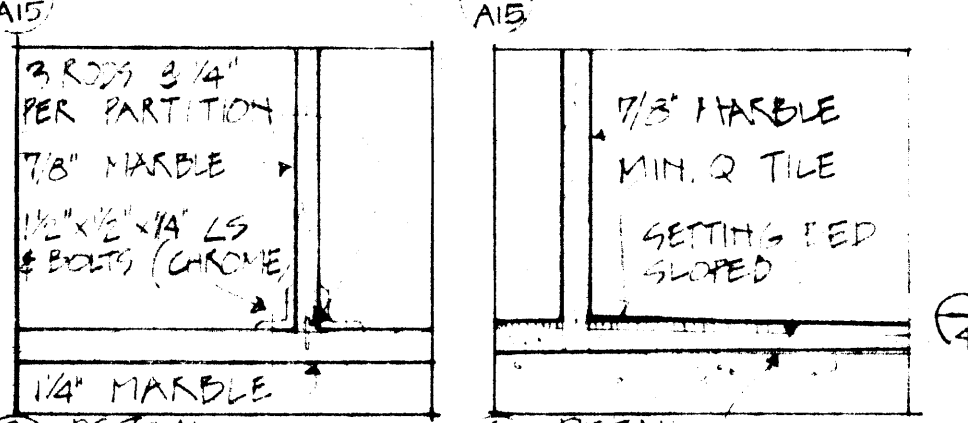
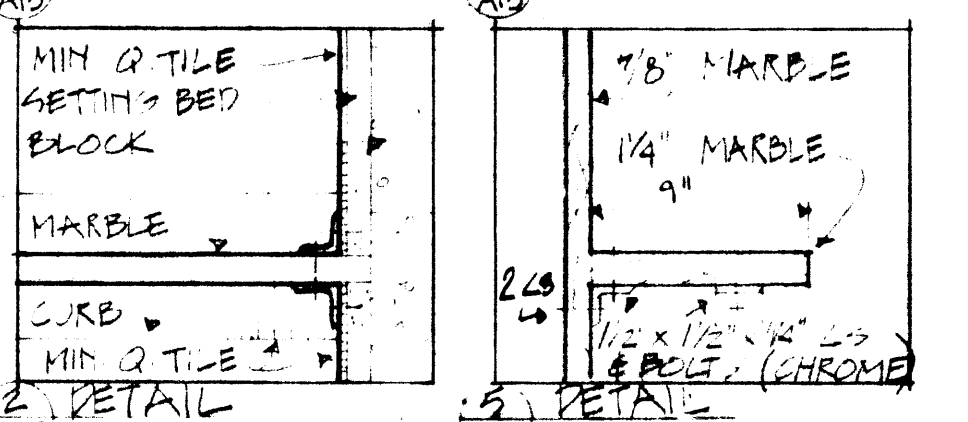
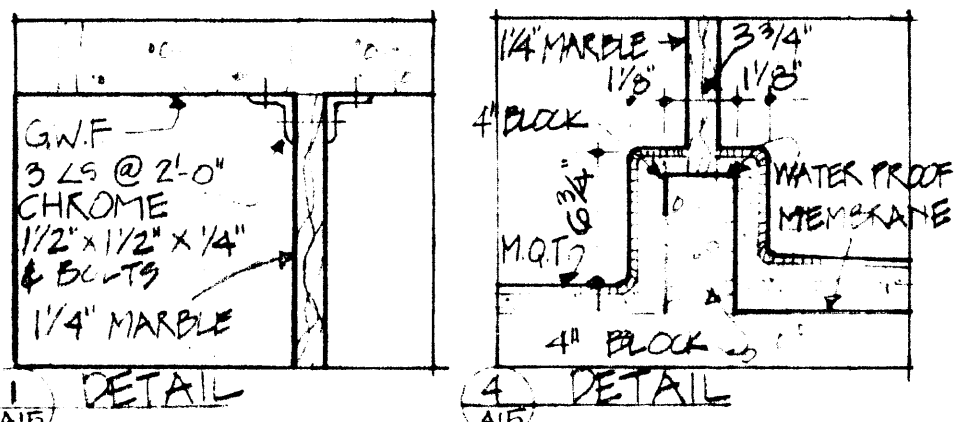
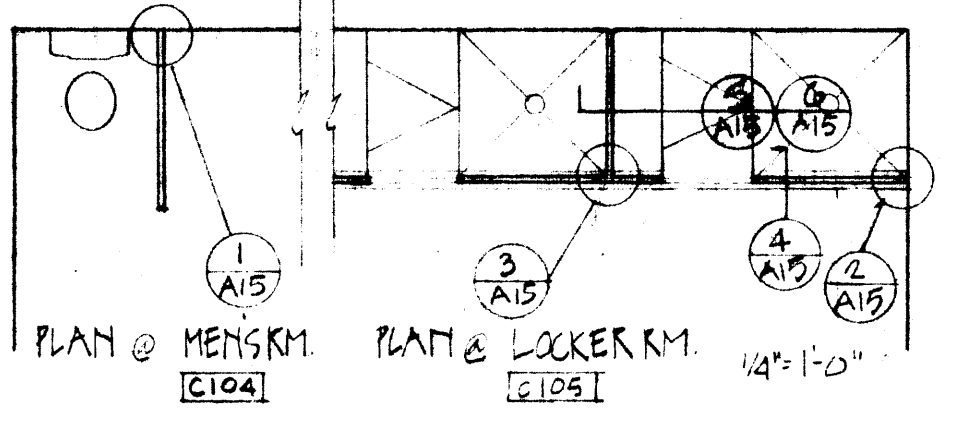
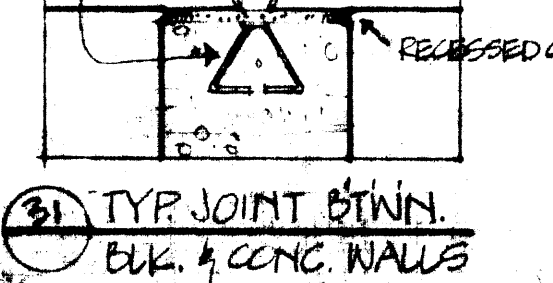
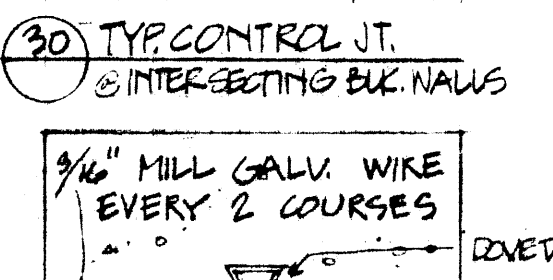
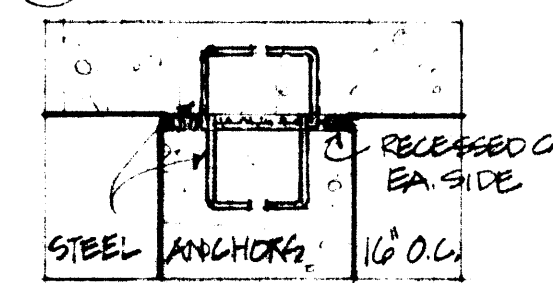
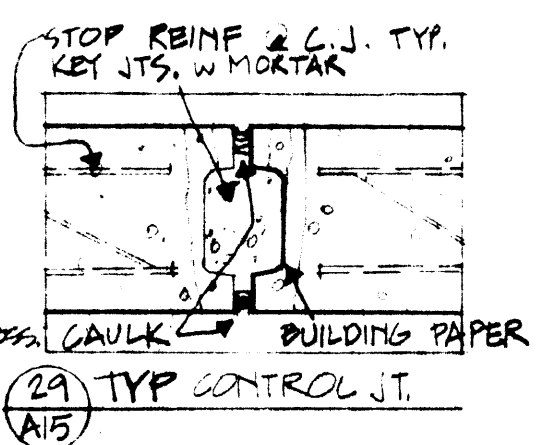
⑧ ELEVATION LABORATORY 1/4" = 1'-0"



⑨ ELEVATION LUNCH RM. 1/4" = 1'-0"



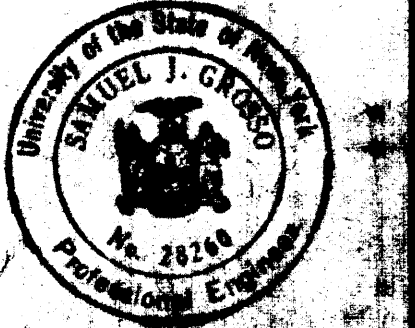
TYP. DOOR W. BLOCK ABOVE



IN CHARGE OF: TK  
 DESIGNED BY: TM  
 MADE BY: TM  
 CHECKED BY: DPF



ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF DRAINAGE AND SANITATION  
 MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT  
 TREATMENT PLANT



MISC. DETAILS

O'BRIEN & GERE  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 SYRACUSE, N.Y.

DATE: FEBRUARY 14, 1988  
 SCALE: AS NOTED  
 FILE NO.: 1888-18F



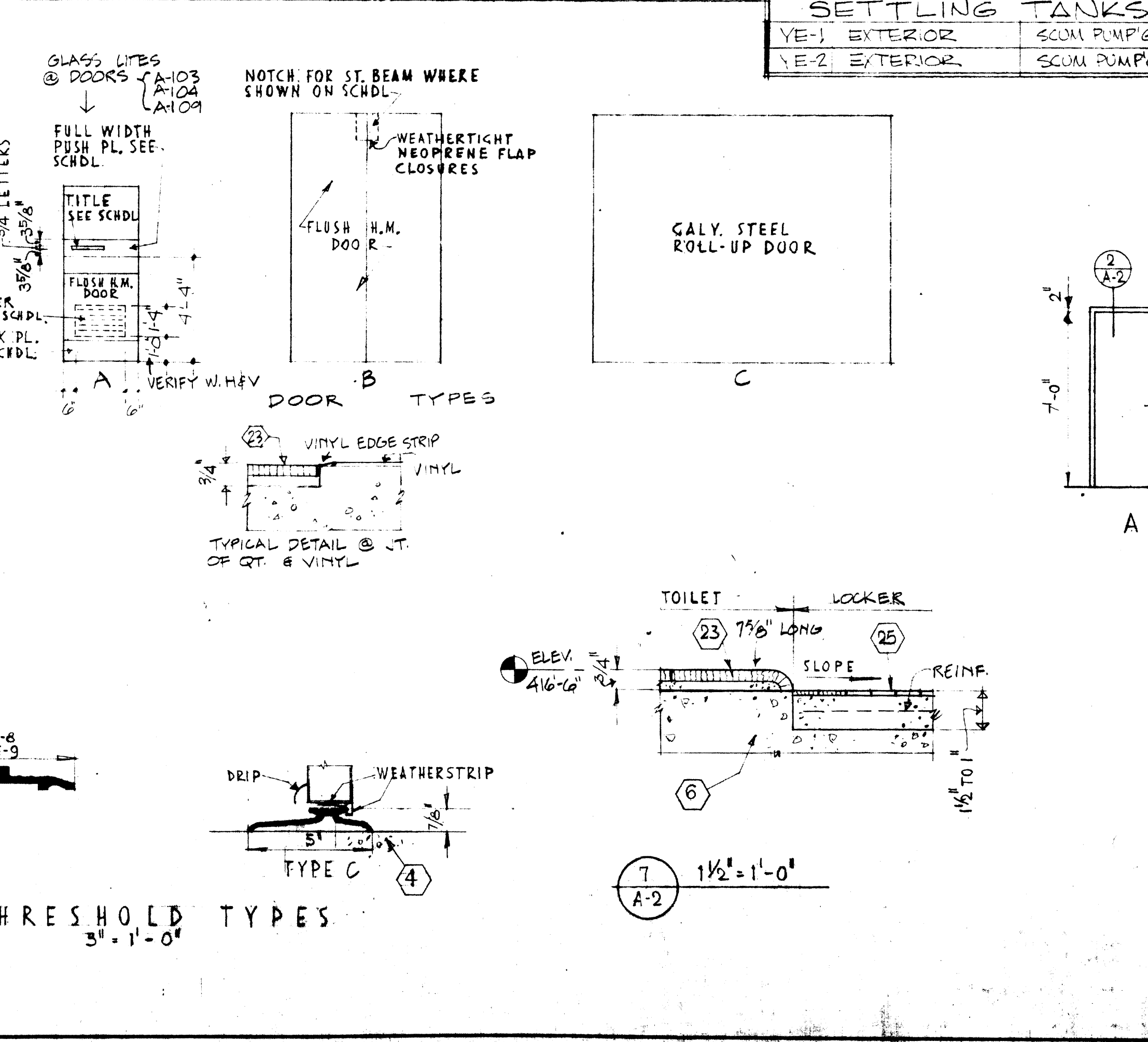
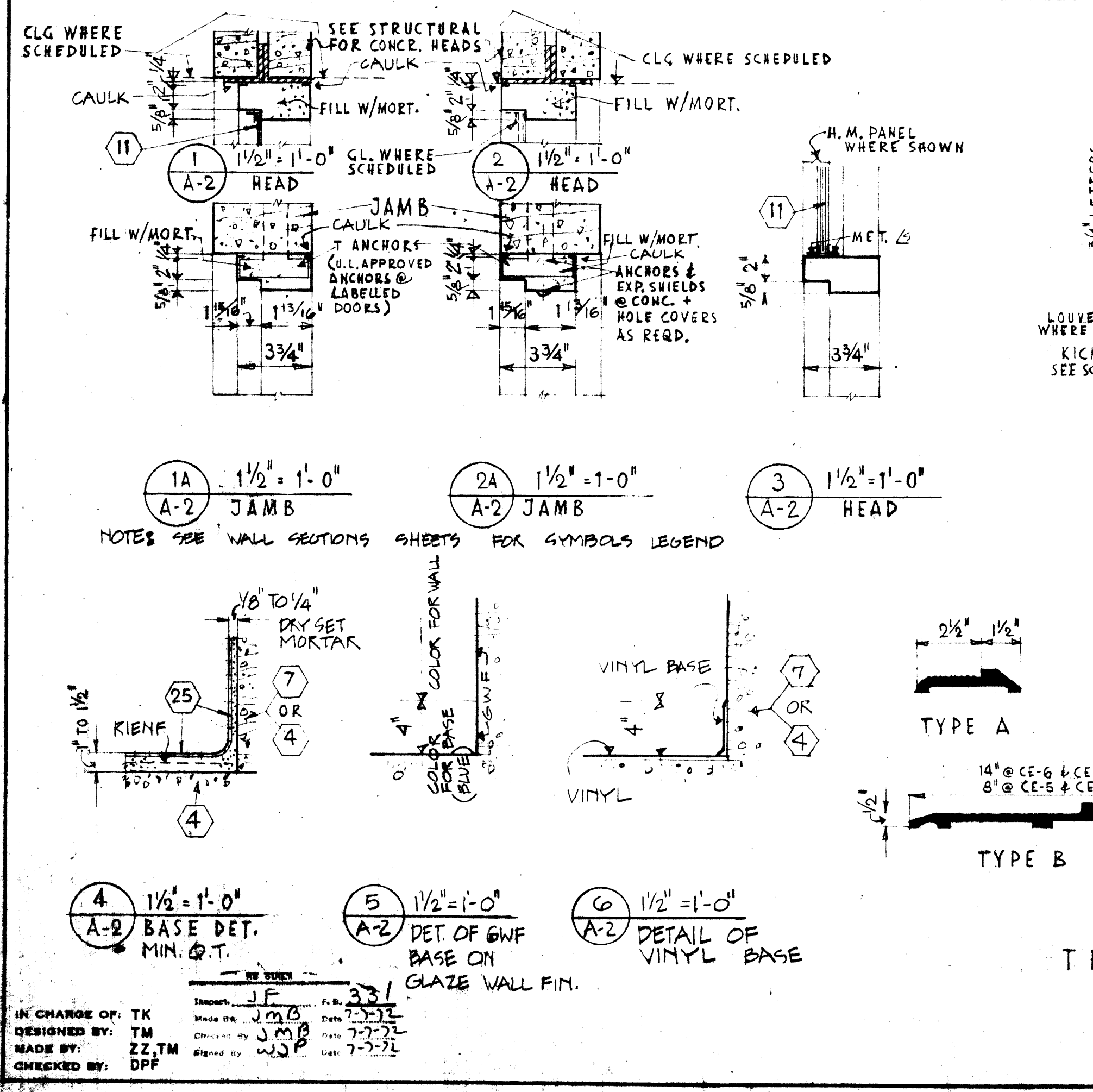
ROOM FINISH SCHEDULE

DOOR SCHEDULE

Table with columns: ROOM No., NAME, FLOOR, BASE, WALLS, TRIM, CEILING, REMARKS, ROOM No., DOOR No., FROM, DOOR LOCATION, TO, SIZE, MAT. TYPE, FRAME, THRESHOLD, and DOOR No. Includes sections for INFLUENT PUMP STATION and SLUDGE PUMP STATION.

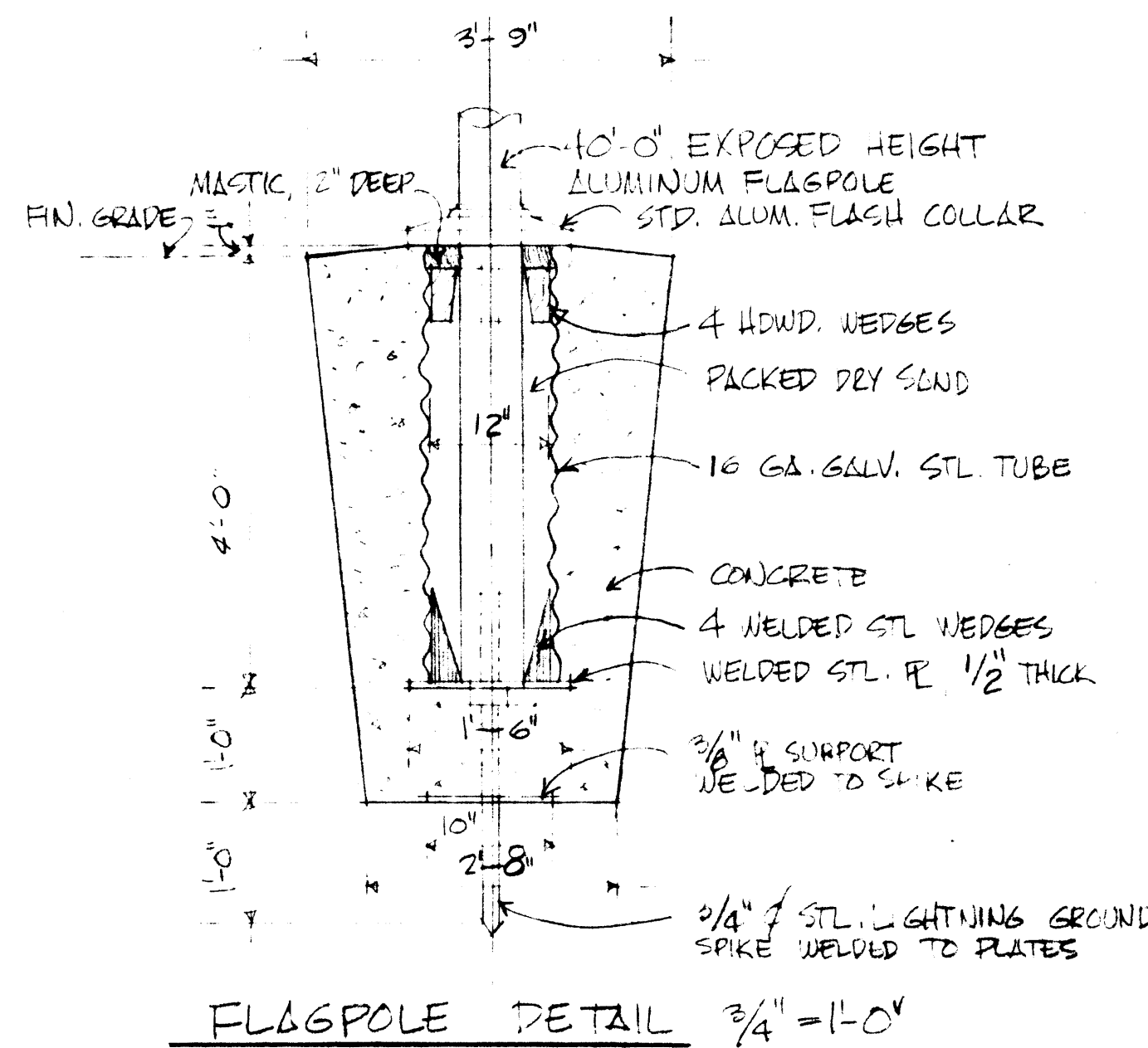
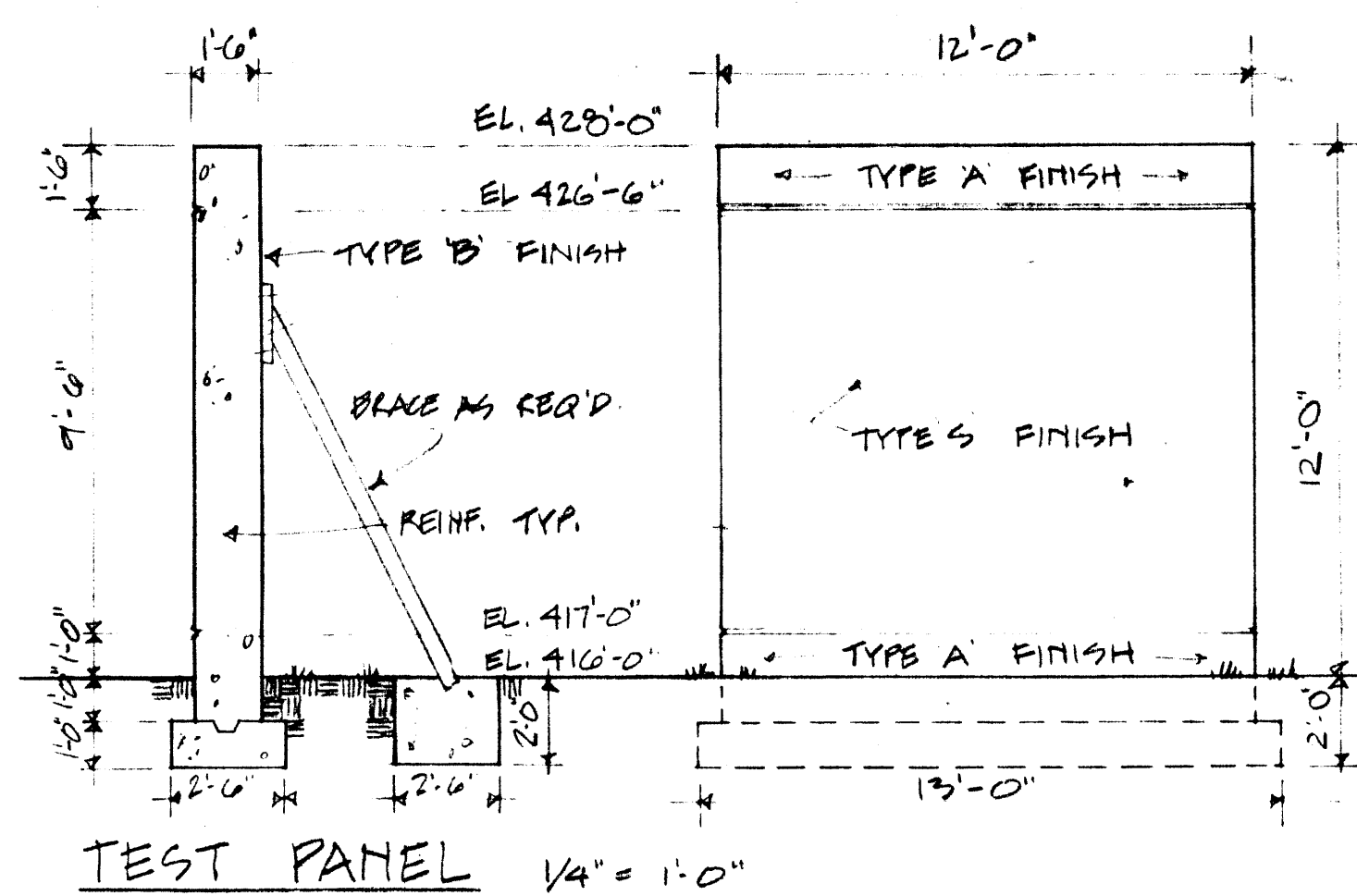
Table with columns: ROOM No., NAME, FLOOR, BASE, WALLS, TRIM, CEILING, REMARKS, ROOM No., DOOR No., FROM, DOOR LOCATION, TO, SIZE, MAT. TYPE, FRAME, THRESHOLD, and DOOR No. Includes sections for AERATION TANK CONTROL ROOM and GARAGE.

Table with columns: ROOM No., NAME, FLOOR, BASE, WALLS, TRIM, CEILING, REMARKS, ROOM No., DOOR No., FROM, DOOR LOCATION, TO, SIZE, MAT. TYPE, FRAME, THRESHOLD, and DOOR No. Includes sections for GARAGE and SETTling TANKS.



AS BUILT stamp, project information for ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS, MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT, and FINISH & DOOR SCHDLS. Includes logos for O'Brien & Gere and Macknight-Kirwinse-French & Sizing.





**MATERIAL KEY**

	CONCRETE OR PRECAST CONC. CONC. BLOCK
	COMPACTED GRAVEL
	EARTH
	STEEL
	WOOD BLOCKING
	A.T. CEILING TILE
	PLASTER
	HARD WOOD
	MARBLE
	PLYWOOD
	INSULATION
	LIGHTWEIGHT CONC. OR CEMENT FILL
	QUARRY TILE

**ABBREVIATIONS**

A.T.	ACOUSTIC TILE	L.A.M.	LAMINATE (D)
ADJ.	ADJUSTABLE	L.A.V.	LAVATORY
ALT.	ALTERNATE	L.L.	LIVE LOAD
ALUM.	ALUMINUM	L.L.V.(H)	LONG LEG VERT. (HOR.)
APPROX.	APPROXIMATE	M.H.	MAN HOLE
ASB.	ASBESTOS	MFR.	MANUFACTURER
ALT. C.	ALTERNATE COURSE	MAS.	MASONRY
B.	BASE	M.O.	MASONRY OPENING
BSMT.	BASEMENT	MAT.	MAXIMUM
BRG.	BEARING	M.C.	MATERIAL
B.M.	BENCH MARK	M.X.	MAXIMUM
BLK.	BLOCK	M.ECH.	MECHANICAL
BD.	BOARD	MET.	METAL
BRK.	BRICK	MIN.	MINIMUM
BLDG.	BUILDING	MISC.	MISCELLANEOUS
		MOS.	MOZAIC
		MQT.	MINIATURE QUARRY TILE
CAB.	CABINET	NAT.	NATURAL
CLG.	CEILING	NOM.	NOMINAL
CEM.	CEMENT	N.I.C.	NOT IN CONTRACT
GER.T.	CERAMIC TILE	N.T.S.	NOT TO SCALE
CL.	CLOSET	NO.	NUMBER
COL.	COLUMN		
CONC.	CONCRETE	O.C.	ON CENTERS
CONST.	CONSTRUCTION	OPG.	OPENING
CONT.	CONTINUOUS	O TO O	OUT TO OUT
CONTR.	CONTRACTOR	O.D.	OUTSIDE DIAMETER
C.J.	CONTROL JOINT		
CORR.	CORRIDOR		
C.	COURSE		
		PT.	PAINT
		PR.	PAIR
		PARTN.	PARTITION
		PLAS.	PLASTER
		R.	PLATE
		R.	PLUMBING
		PLWD.	PLYWOOD
		R.C.	PORTLAND CEMENT
		P.S.I.	POUNDS PER SQUARE INCH
		PREF.	PREFINISHED
		P.L.	PROPERTY LINE
		P.C. PLAS.	PUTTY COAT PLASTER
		Q.T.	QUARRY TILE
D.L.	DEAD LOAD		
DET.	DETAIL		
DIA.	DIAMETER		
DIM.	DIMENSION		
DISP.	DISPENSER		
DO.	DITTO		
DR.	DOOR		
DSB.	DOUBLE STRENGTH "B" GRADE		
DWL.	DOWEL		
DN.	DOWN		
DWG.	DRAWING		
D.F.	DRINKING FOUNTAIN		
EA.	EACH	R.	RADIUS
ELEC.	ELECTRIC	REF.	REFERENCE
E.W.C.	ELECTRIC WATER COOLER	REG.	REGISTER
EL.	ELEVATION	REINF.	REINFORCE (ING)
EQUIP.	EQUIPMENT	REL.	RELOCATE
EXIST.	EXISTING	REQD.	REQUIRED
EXP.	EXPANSION	R.	RISER
EXT.	EXTERIOR	RFG.	ROOFING
		RM.	ROOM
		R.O.	ROUGH OPENING
		RUB.	RUBBER
FT.	FEET	SECT.	SECTION
FIN.	FINISH	S.S.	SERVICE SINK
F.E.	FIRE EXTINGUISHER	SH.	SHEET
F.B.	FIRE BOARD	SPEC.	SPECIFICATION
FL.	FLOOR	SO.	SQUARE
F.D.	FLOOR DRAIN	ST.	STEEL
FTG.	FOOTING	S.J.	STEEL JOIST
F.S.	FOOTING STEP	STOR.	STORAGE
FNDN.	FOUNDATION	STRUC.	STRUCTURAL
FURR.	FURRING OR FURRED	SUSP.	SUSPENDED
		SCHL.	SCHEDULE
GALV.	GALVANIZED	S.E. PLAS.	SCHEDULE PLASTER
G.I.	GALVANIZED IRON		
GA.	GAUGE		
G.C.	GENERAL CONTRACTOR		
GL.	GLASS	TEL.	TELEPHONE
G.W.F.	GLAZED WALL FINISH	TERR.	TERRAZZO
GR.	GRADE	T.	TILE OR TOP
G.W.B.	GLAZED WALL BOARD	T.F.E.	TOP FOOTING ELEVATION
		T.O.S.	TOP OF SLAB
		T.W.E.	TOP WALL ELEVATION
		TYR.	TYPICAL
HD. BD.	HARD BOARD		
HWDR.	HARDWARE	VERM.	VERMICULITE
HWWD.	HARD WOOD	VERT.	VERTICAL
H. & V.	HEATING & VENTILATING	VEST.	VESTIBULE
HGT.	HEIGHT	V.A.T.	VINYL ASBESTOS TILE
H.M.	HOLLOW METAL		
HOR.	HORIZONTAL		
		WIN.	WINDOW
		WAINS.	WAINSCOT
		W.P.	WATER PROOF
		WT.	WEIGHT
		W.W.M.	WELDED WIRE MESH
		W.O.	WINDOW OPENING
		W/.	WITH
		W/O.	WITHOUT
		WD.	WOOD

**GENERAL NOTES:**

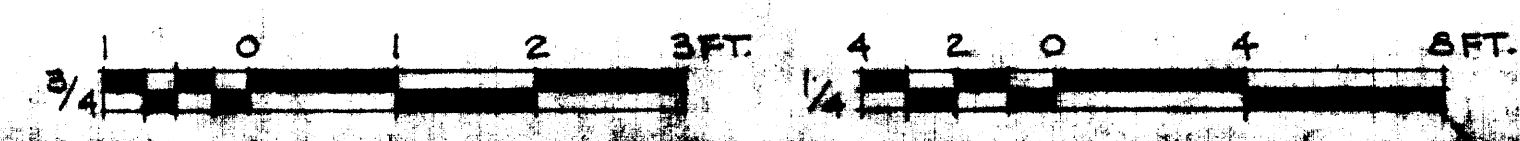
- CONC. - SEE ALL TRADES FOR REQ'D EQUIP. PADS.
- SEE STRUCTURAL DWGS. FOR FOOTING & FOUNDATION DATA.
- VERIFY ALL DIMENSIONS IN THE FIELD.
- ALL PARTITIONS EXTEND TO UNDER SIDE OF CONC. UNLESS OTHERWISE NOTED.
- FIRE PROTECTION NOTES:
  - PERTAINS TO ALL CONTRS.
  - a. BUILDINGS ARE "TYPE 2B CONSTR." IN GENERAL AS DESCRIBED IN THE N.Y. STATE BUILDING CODE FOR GENERAL BUILDING CONSTRUCTION. BUILDING ELEMENTS SHALL BE FIRE RATED ACCORDINGLY UNLESS SPECIFICALLY REQUIRED OTHERWISE BY CONTRACT DOCUMENTS. THIS IS TO DETERMINE MIN. RATINGS.
  - b. FIRESTOPPING - SEE ABOVE CODE.
  - c. IN ADDITION TO ABOVE CONSIDERATIONS THE FOLLOWING SPACES REQUIRE FIRE RATINGS AS FOLLOWS:
    - 2 HOUR**
      - BUILDING 'A' GRIT REMOVAL RM. - A 110
      - EMERG. GENERATOR RM. - A 107
    - BUILDING 'C'**
      - WORK ROOM - C 106
      - VEHICLE STORAGE - C 101
      - STORAGE - C 107
    - 3/4 HOUR**
      - BUILDING 'A' PUMP ROOM (INCL. STAIR #1) - AB-2

SECTION OR DETAIL NO. 3  
 SHEET ON WHICH SECTION OR DETAIL IS TAKEN OR SHOWN. A4  
**DETAIL NUMBERING SYSTEM**

**AS BUILT**

J.F. 331  
 J.M.B. 2-2-52  
 J.M.B. 2-2-52  
 J.S.P. 2-2-52

IN CHARGE OF: TK  
 DESIGNED BY: TM  
 MADE BY: TM  
 CHECKED BY: DPF



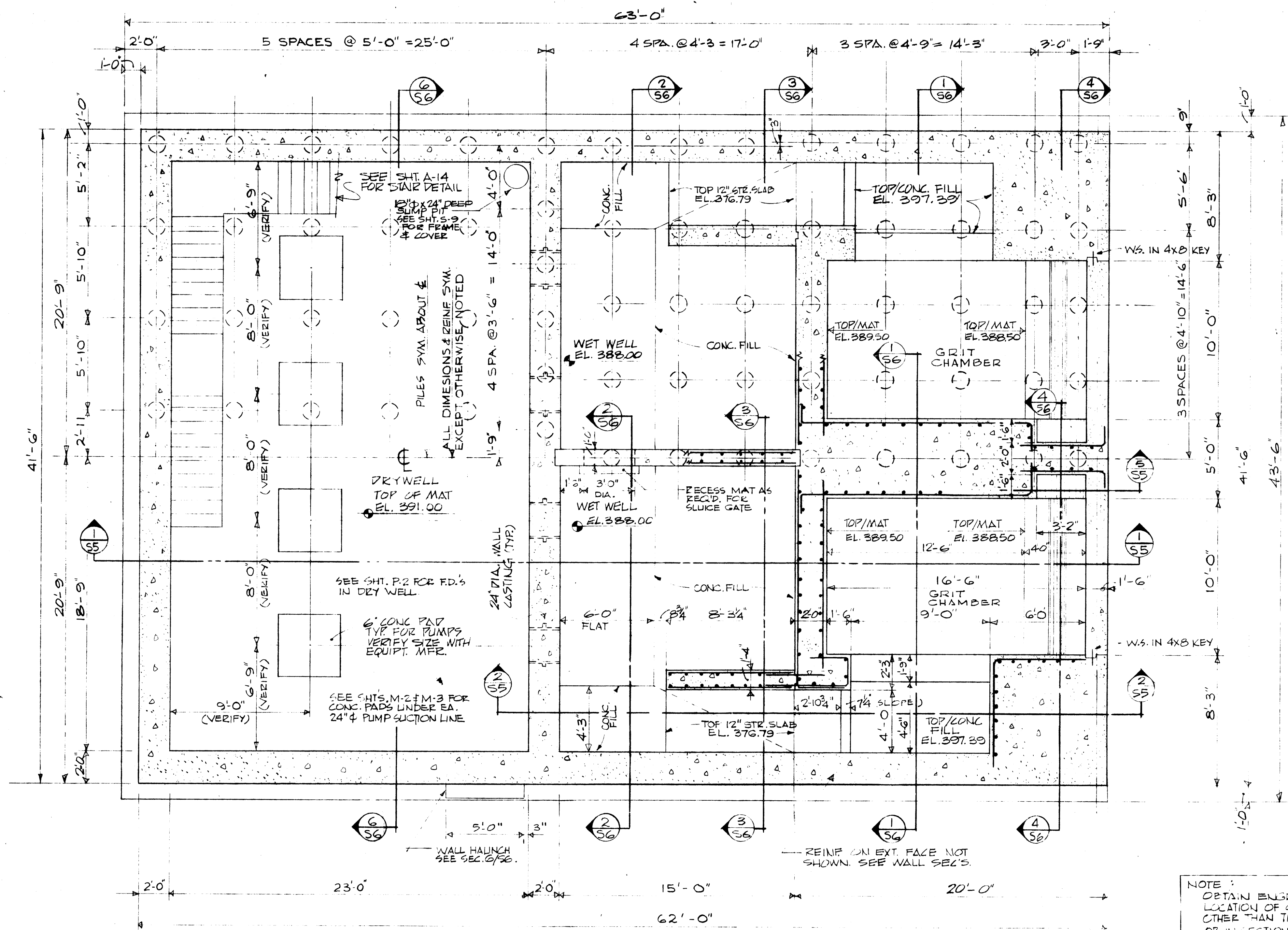
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF DRAINAGE AND SANITATION  
 MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT  
**TREATMENT PLANT**

**NOTES & MISC.**

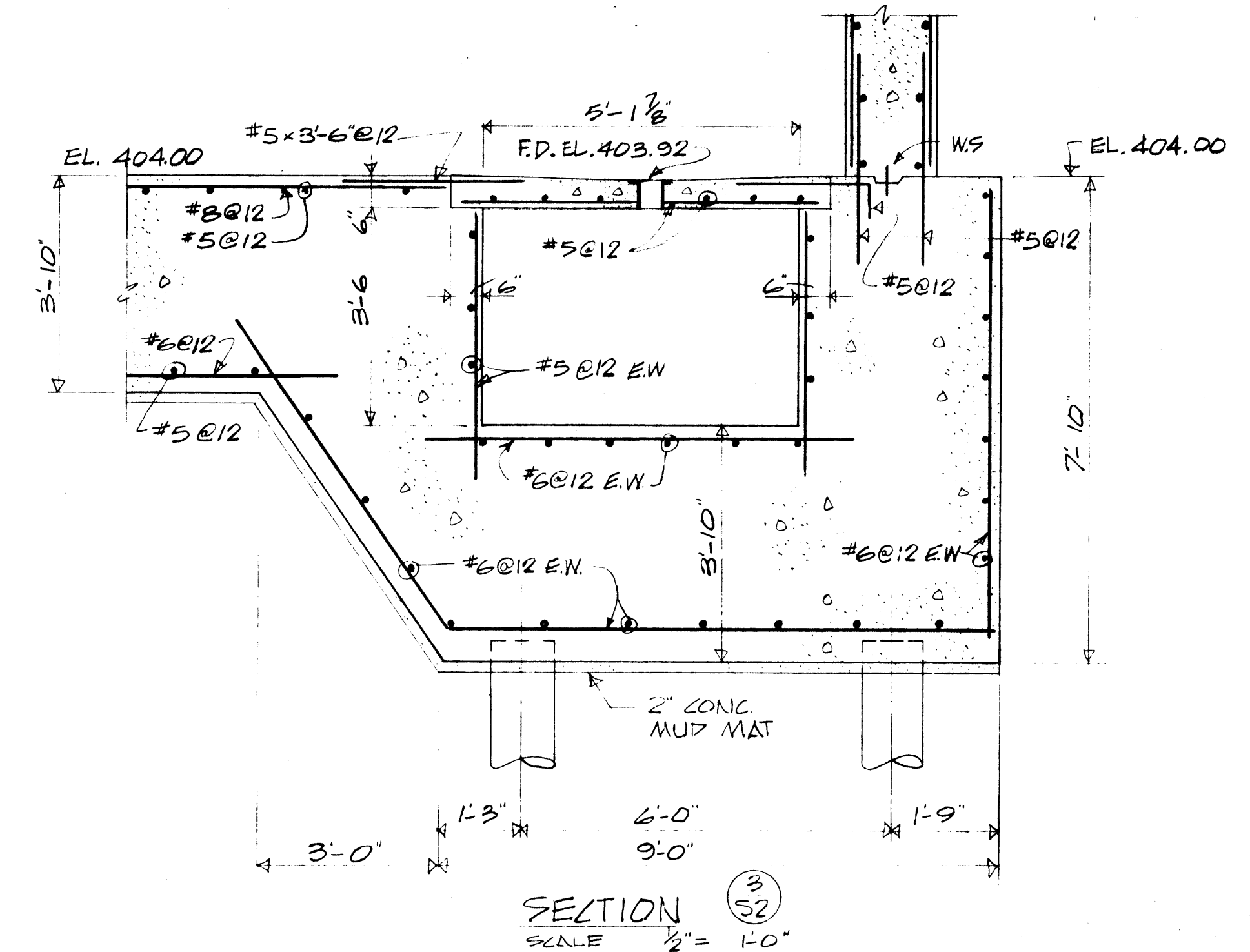
O'BRIEN & GERE  
 CONSULTING ENGINEERS & SURVEYORS  
 100 N. WASHINGTON ST., BUFFALO, N.Y. 14203

DATE: FEBRUARY 1952  
 SCALE: NO. 1  
 FILE NO. 2-2-52

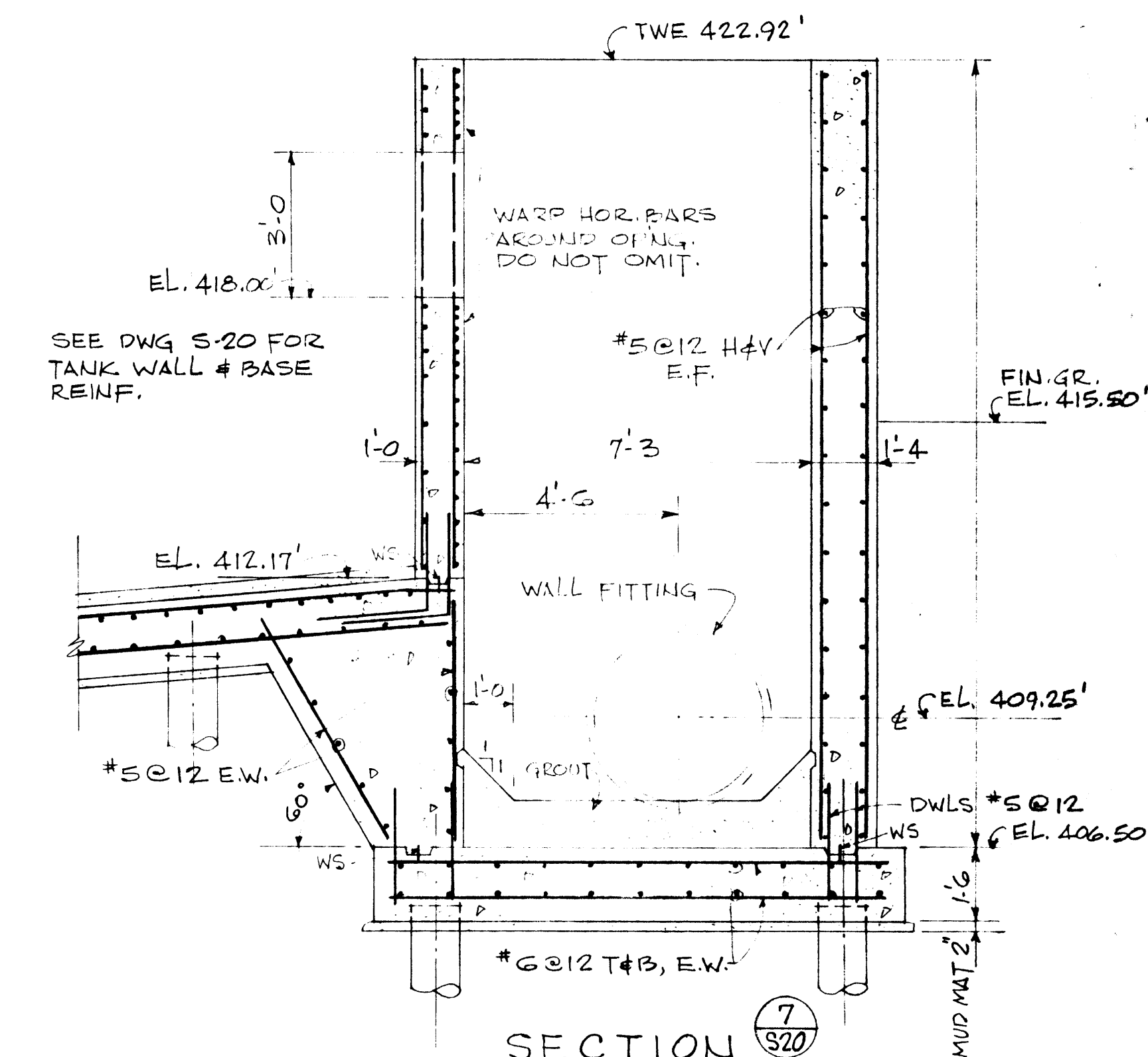




PARTIAL SECTIONAL FOUNDATION PLAN  
SCALE: 1/4" = 1'-0"

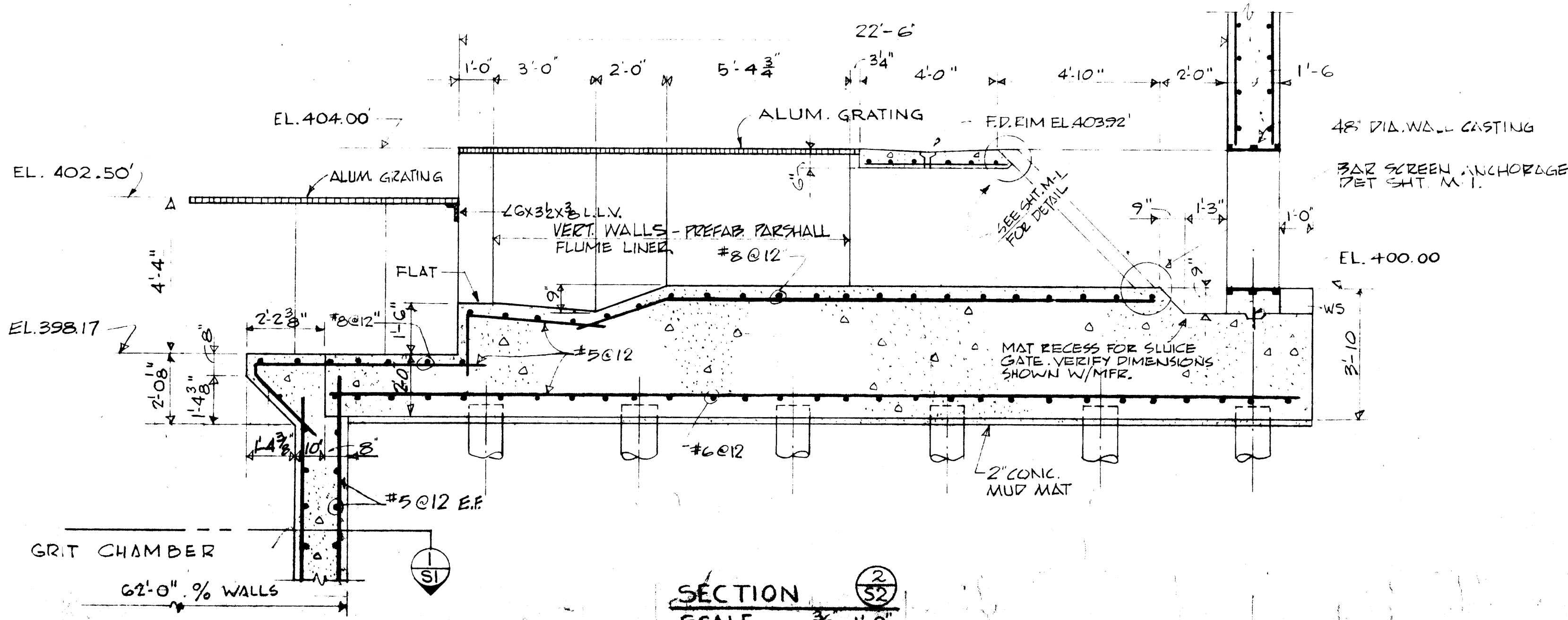


SECTION 52  
SCALE: 1/2" = 1'-0"



SECTION 7 S20  
SCALE: 3/8" = 1'-0"

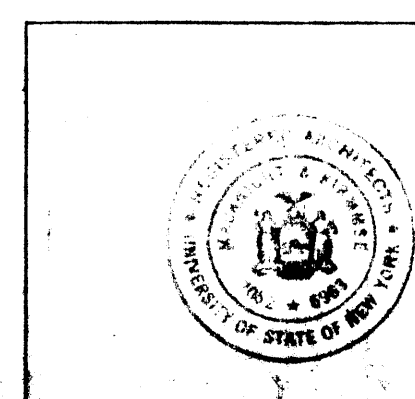
NOTE: OBTAIN ENGINEER'S APPROVAL FOR LOCATION OF CONSTR. JOINTS REQ'D. OTHER THAN THOSE SHOWN ON PLAN OR IN SECTION.



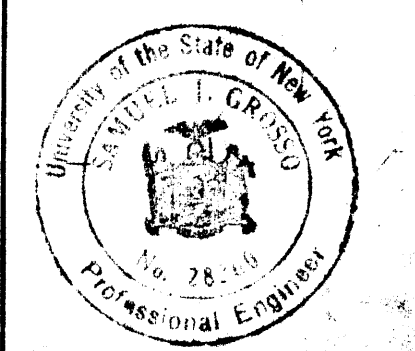
SECTION 52  
SCALE: 3/8" = 1'-0"

AS BUILT

IN CHARGE OF: TK  
DESIGNED BY: WI  
MADE BY: RS, JK  
CHECKED BY: JS



ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK—LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT  
**INFLUENT PUMP STATION**  
**PARTIAL FND PLAN**

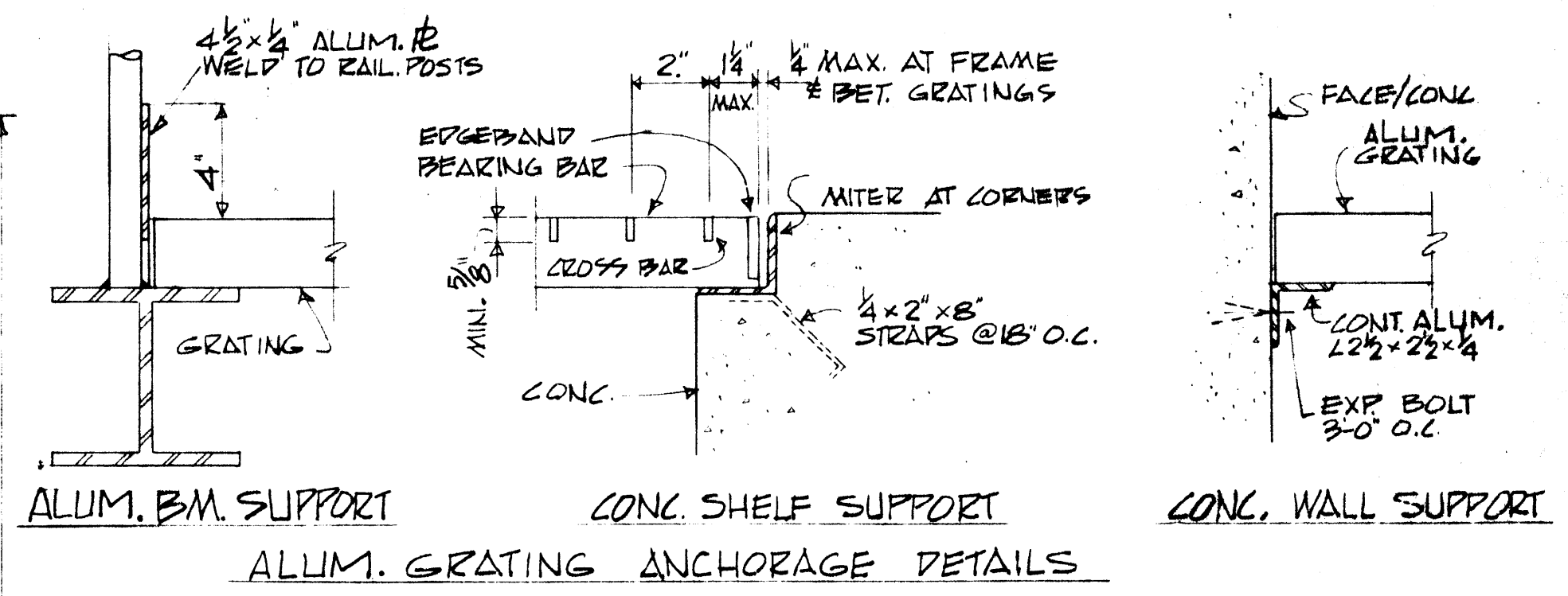
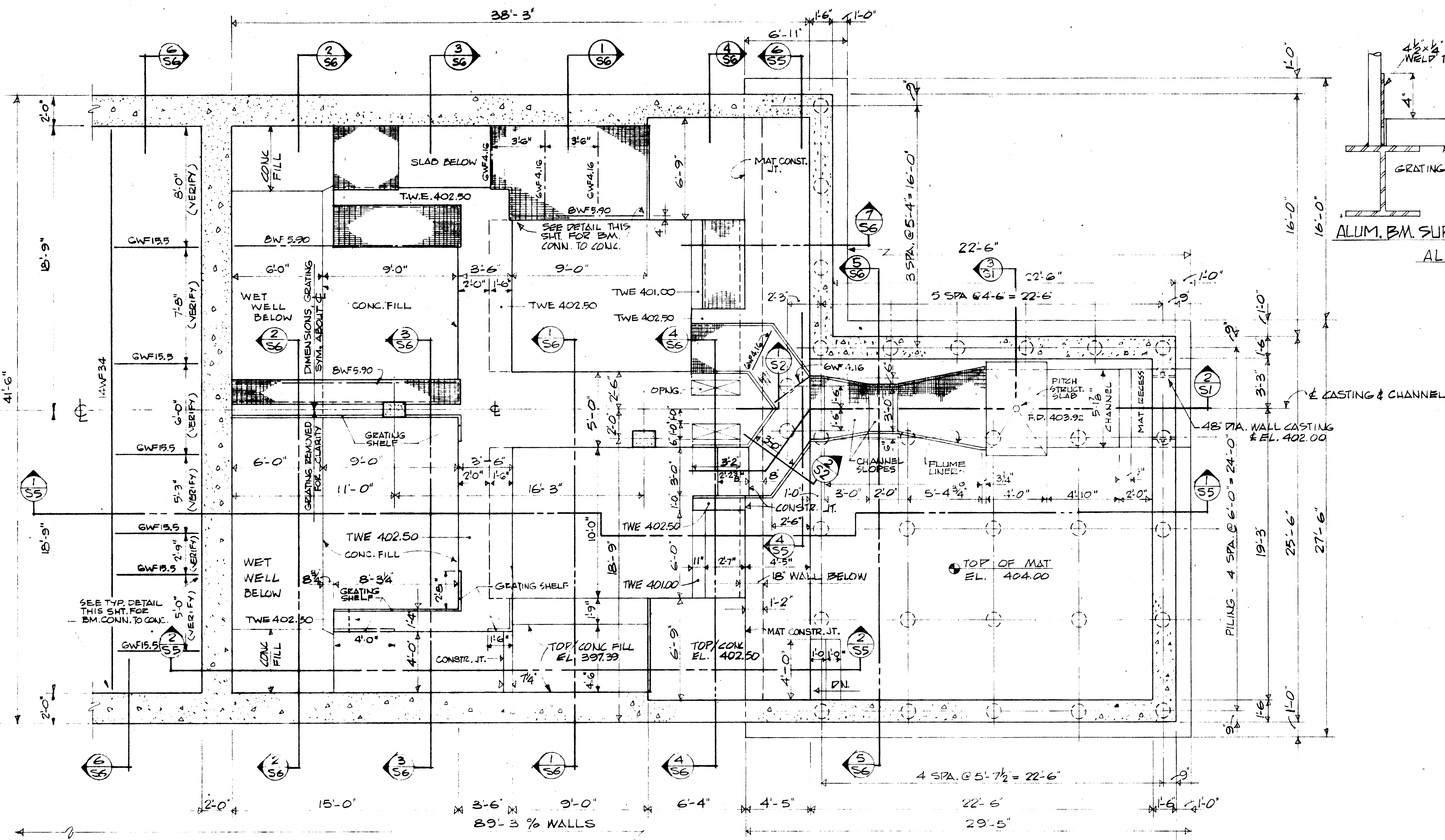


O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
SYRACUSE, NEW YORK

DATE: FEBRUARY 14, 1968  
SCALE: AS NOTED  
FILE NO.: 115.149-16F

S-1



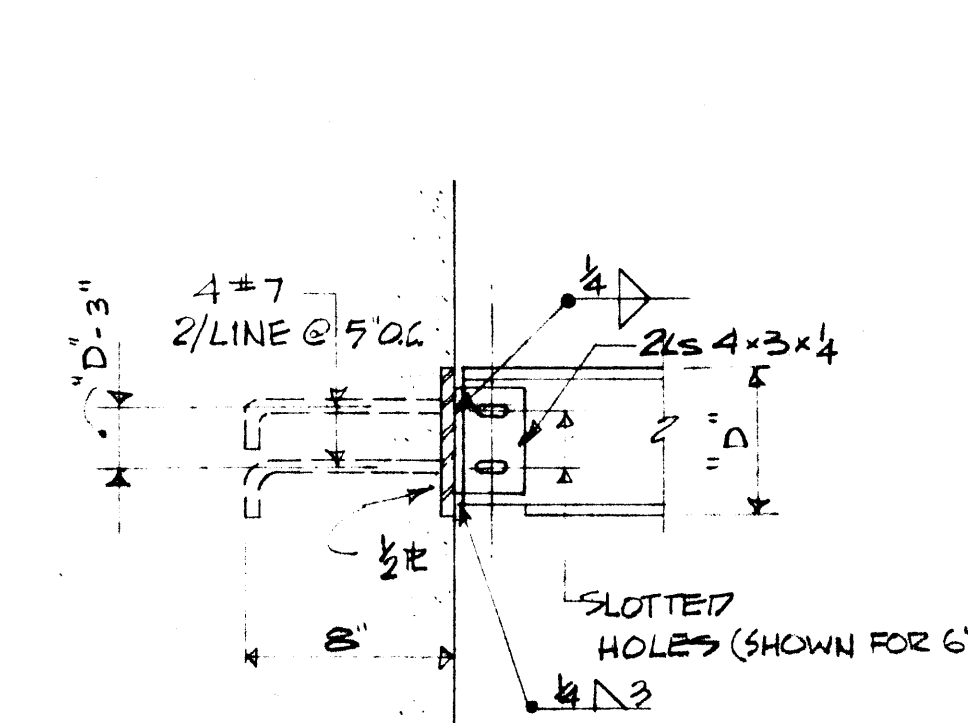


ALUM. GRATING SPAN TABLE		
MAX SPAN FEET	BEARING BAR SIZE INCHES	ALUM. L FRAME
3-0	1 1/2 x 3/16	1 3/4 x 1 3/4 x 1/4
3-6	1 3/4 x 3/16	2 x 2 x 1/4
4-0	2 x 3/16	2 1/2 x 2 1/2 x 1/4
4-6	2 1/2 x 3/16	2 1/2 x 2 1/2 x 1/4
5-0	2 1/2 x 3/16	3 x 3 x 1/4

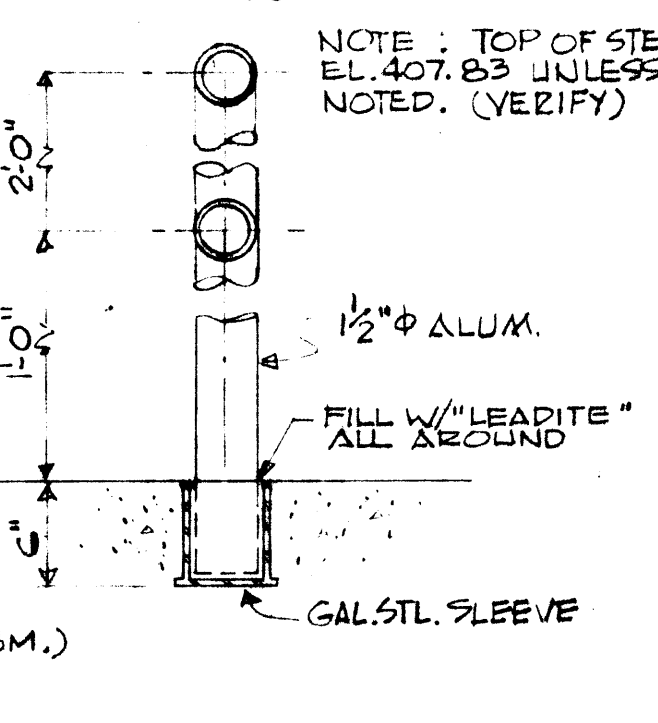
- NOTE:
1. MINIMUM BEARING BAR SIZE 1 1/2 x 3/16
  2. PROVIDE FILLER BEARING BARS AS REQ'D FOR 2" & 2 1/2" GRATINGS SO THAT GRATING IS FLUSH WITH FINISH FLOOR
  3. PROVIDE EDGE BANDING AROUND ALL OPENINGS 4" & OVER
  4. MAXIMUM SPACING OF BEARING BARS IS 1' CLEAR

NORTH

PARTIAL SECTIONAL FLOOR PLAN  
SCALE 1/4" = 1'-0"

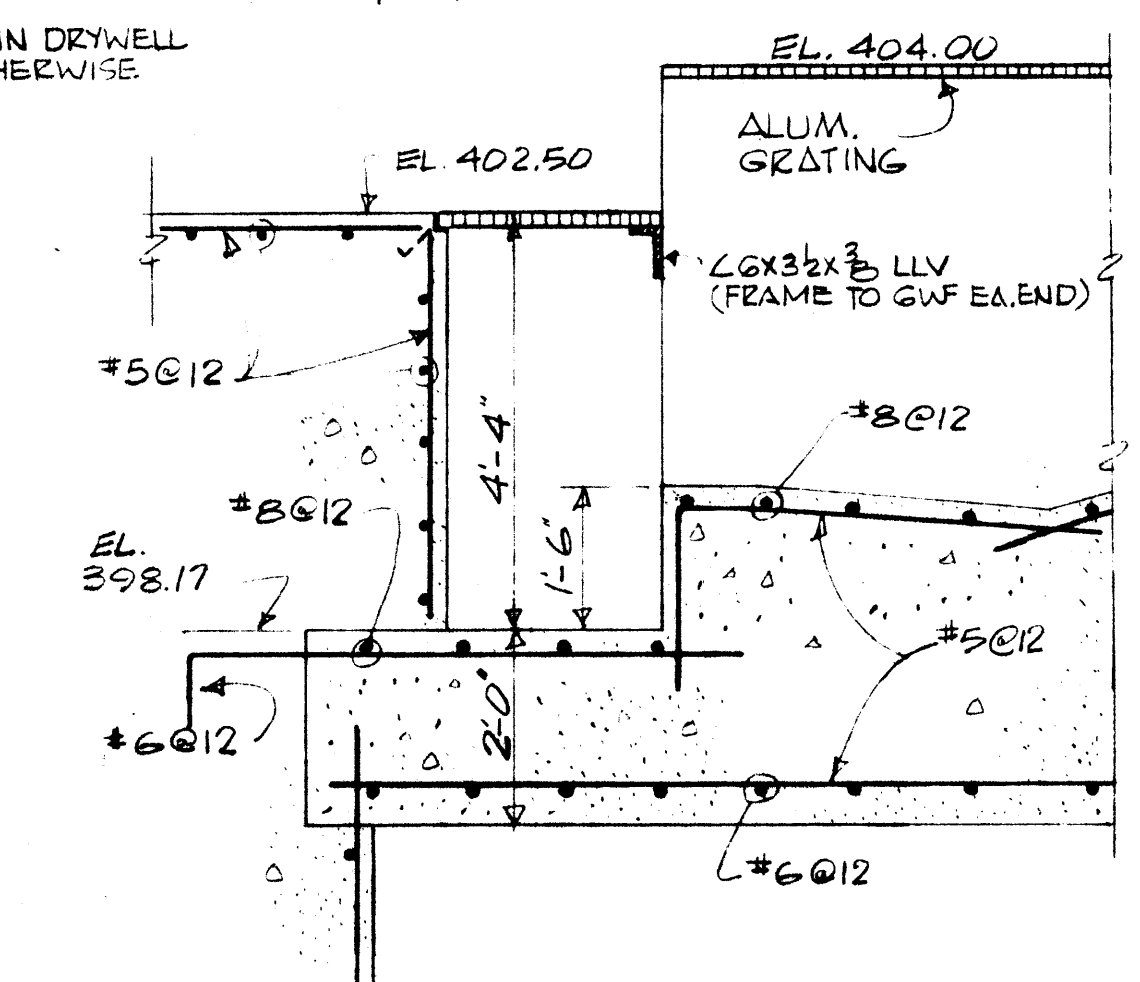


TYPICAL STEEL OR ALUM. BM. CONNECTION TO CONC.

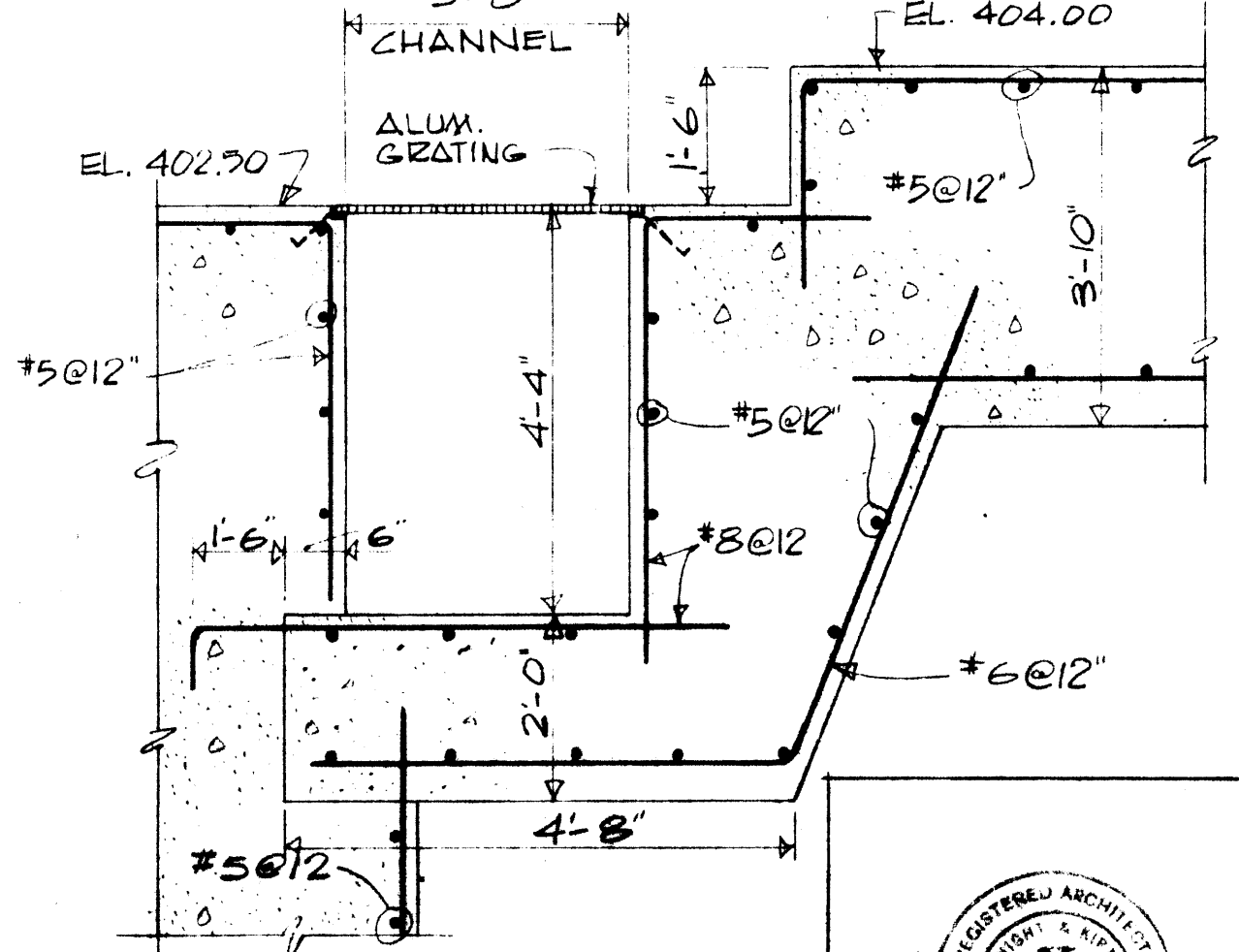


TYP. RAILING & POST ANCHORAGE DETAIL

NOTE: SEE SHT. M-1 FOR PLAN OF ALUM. RAILING & POSTS.



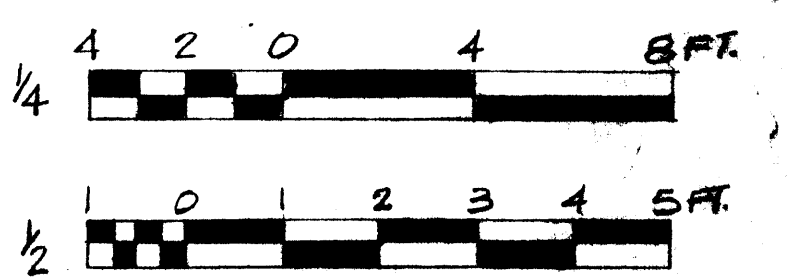
SECTION 1  
SCALE 1/2" = 1'-0"



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

AS BUILT

Note: Provide 1'-0" wide grating sections centered over alum. stop plates see M sheets



331  
JMB  
JMB  
JMB

IN CHARGE OF: TK  
DESIGNED BY: WI  
MADE BY: RS  
CHECKED BY: JS

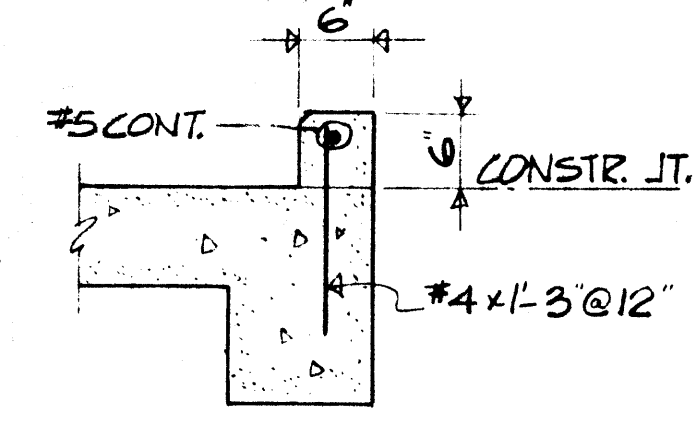
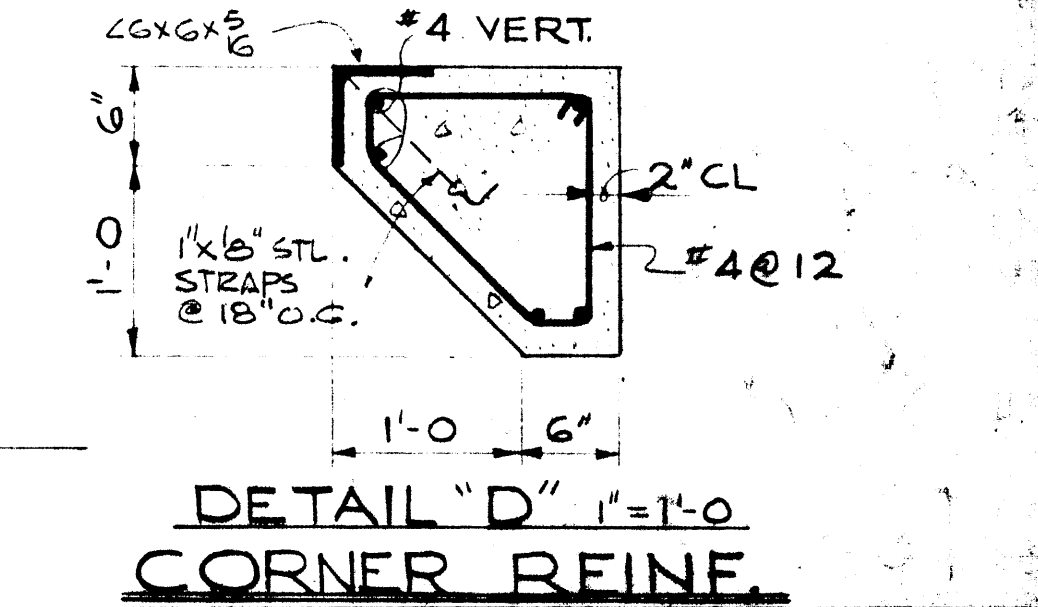
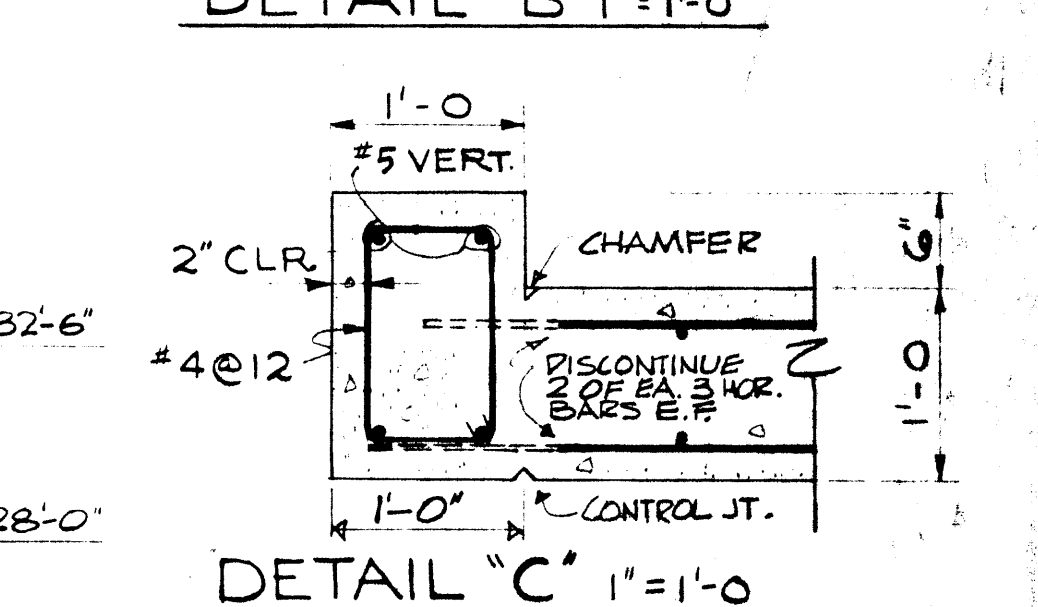
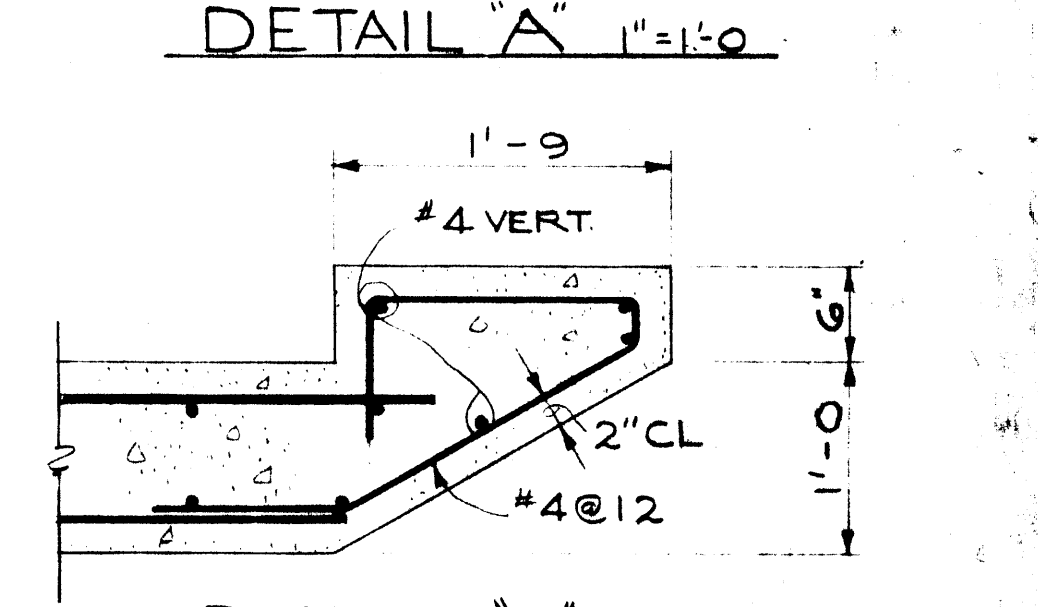
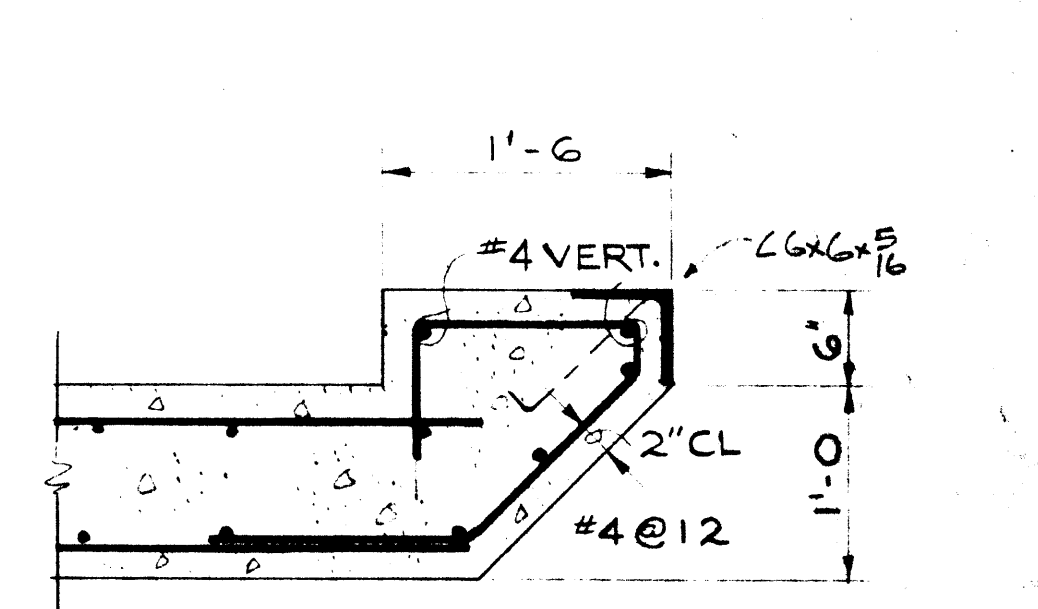
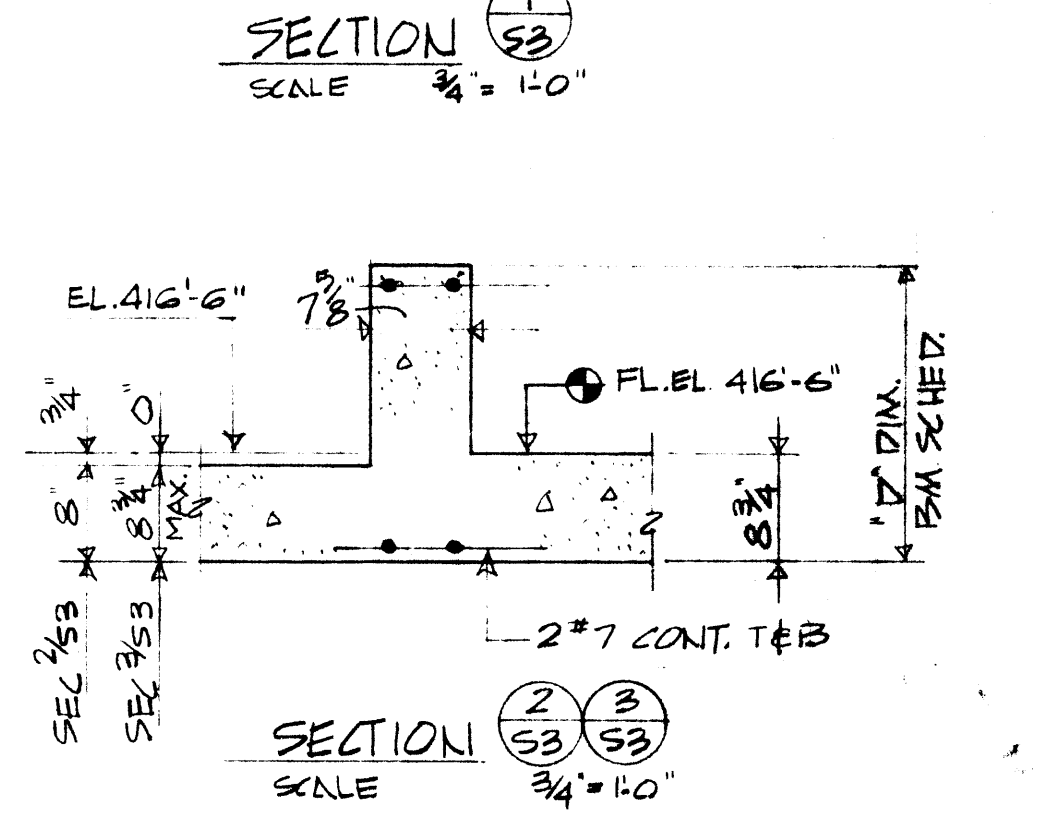
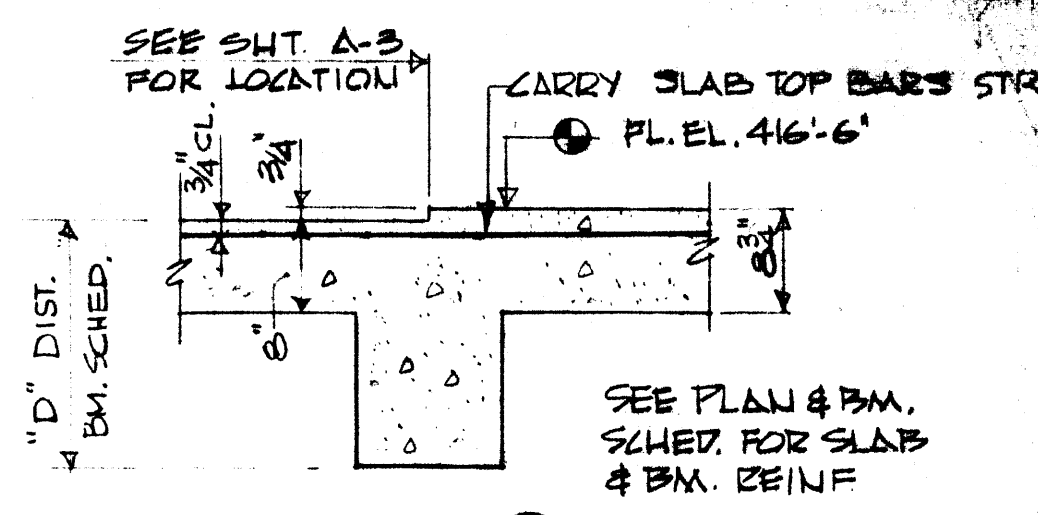
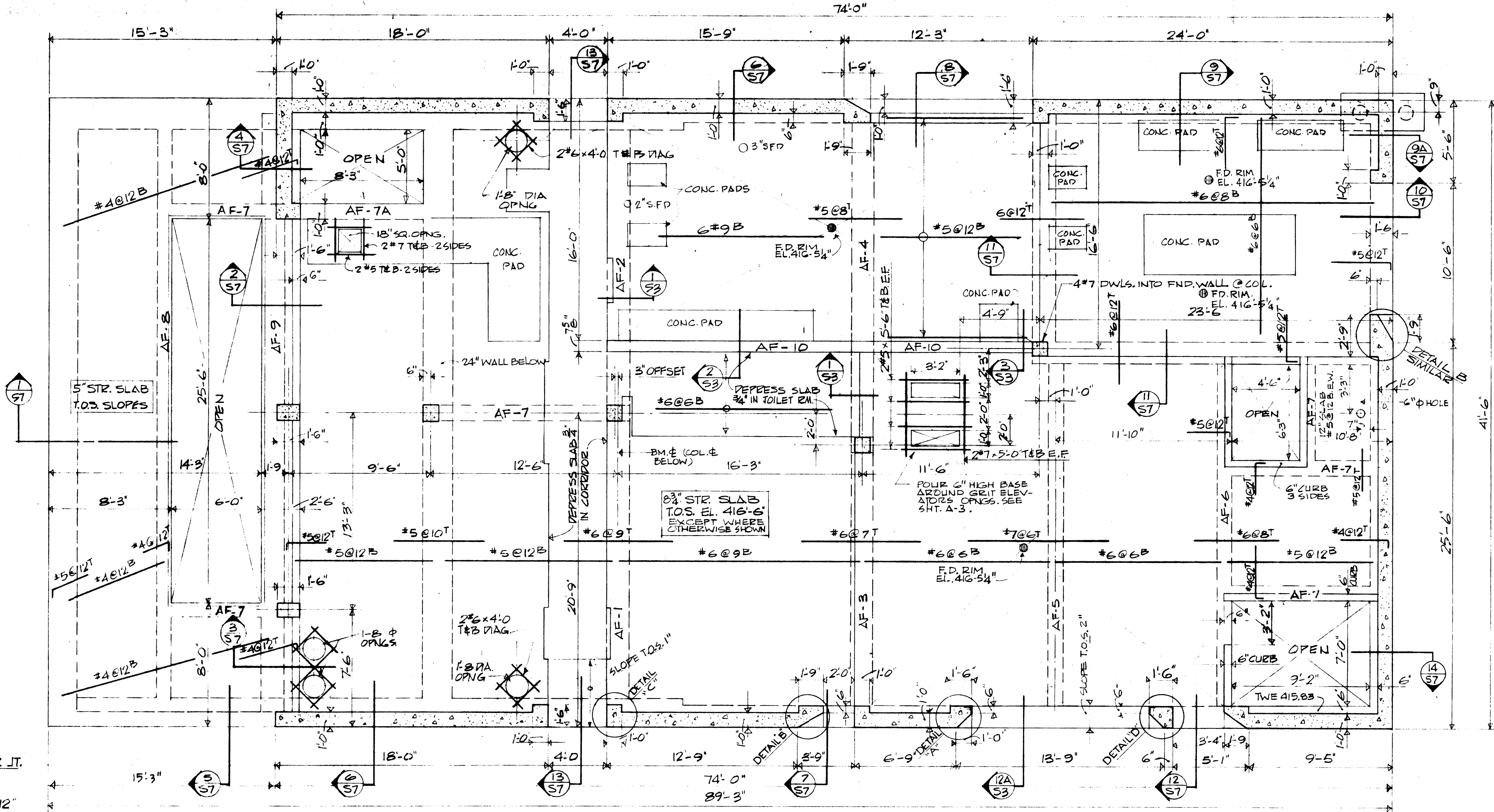
MAGNIGHT, KIRRMSE, FRENCH & SONS  
CONSULTING ARCHITECTS  
SYRACUSE, N.Y.

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT  
**INFLUENT PUMP STATION  
PARTIAL FLOOR PLAN**  
O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
SYRACUSE, N.Y.

DATE: FEBRUARY 14, 1968  
SCALE: AS NOTED  
FILE NO.: 1649-178

Professional Engineer  
No. 2828



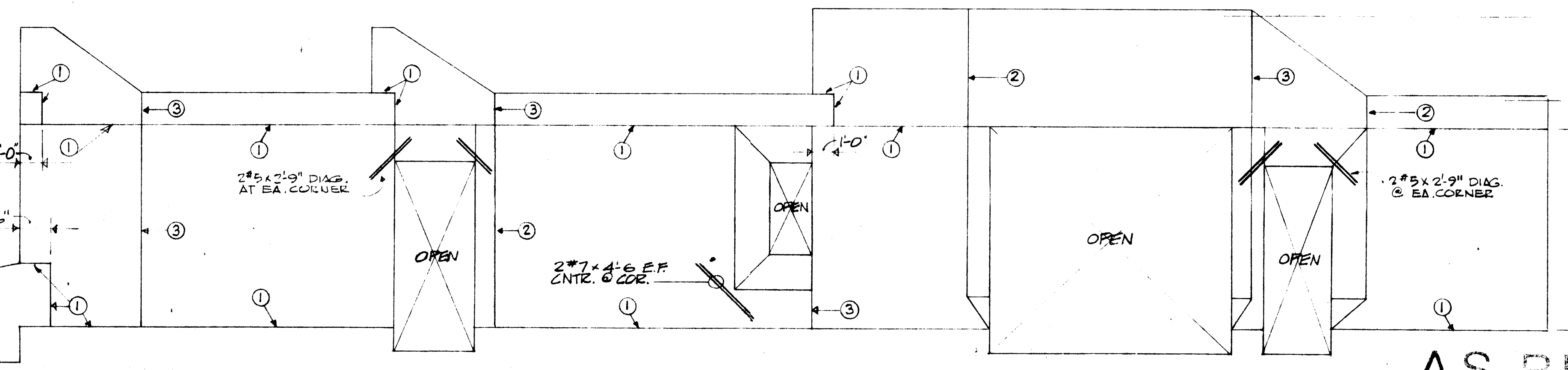


TYPICAL CONC CURB  
SCALE 3/4" = 1'-0"

FLOOR FRAMING PLAN  
SCALE 1/4" = 1'-0"

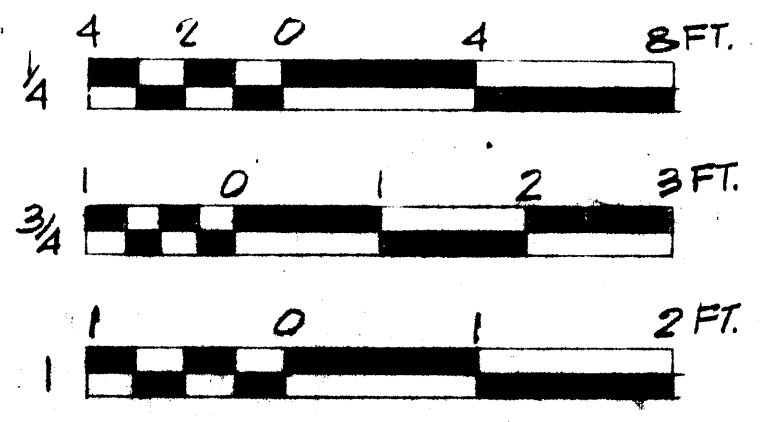
- NOTES:
1. PROVIDE TEMPERATURE REINFORCING IN ONE-WAY SLABS AS FOLLOWS:  
5" THICKNESS: #4 @ 16"  
8" THICKNESS: #4 @ 12"
  2. VERIFY LOCATION & SIZE OF ALL OPENINGS SHOWN OR OTHERWISE REQ'D WITH EQUIPMT MFG. OR CONTRACTOR.

NOTE: ALL COLS. FLOOR/ROOF ARE 12"x12" UNLESS OTHERWISE SHOWN. REINF. 4#7V, #3 TIES @ 12" O.C.



WEST ELEVATION JOINTING  
SCALE 1/4" = 1'-0"

- JOINT LEGEND (SEE SHIT. S-14 & ARCH. DWGS. FOR JOINT DETAILS.)
- ① CONSTRUCTION JOINT
  - ② CONTROL JOINT
  - ③ RUSTICATION JOINT



AS BUILT

CORNER REIN.

AS BUILT  
J.P. 231  
M.B. 231-72  
M.B. 231-73  
J.P. 231-72

IN CHARGE OF: TK  
DESIGNED BY: WI  
MADE BY: RS, EG  
CHECKED BY: JS

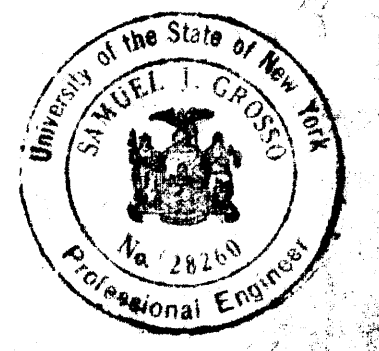


MACKNIGHT - KIRKME, FRENCH & SIZIG  
CONSULTING ARCHITECTS

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT 1  
**INFLUENT PUMP STATION  
FLOOR FRAMING PLAN**

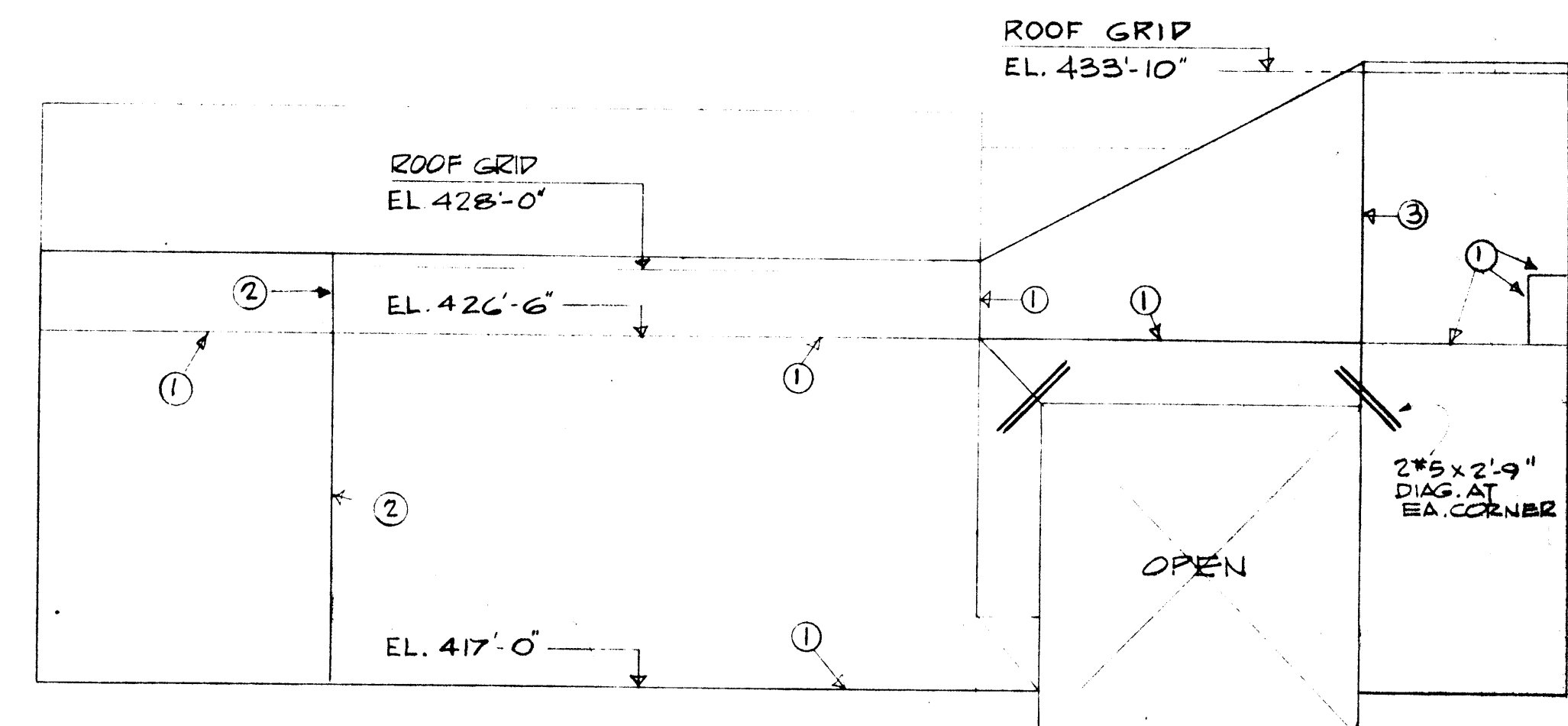
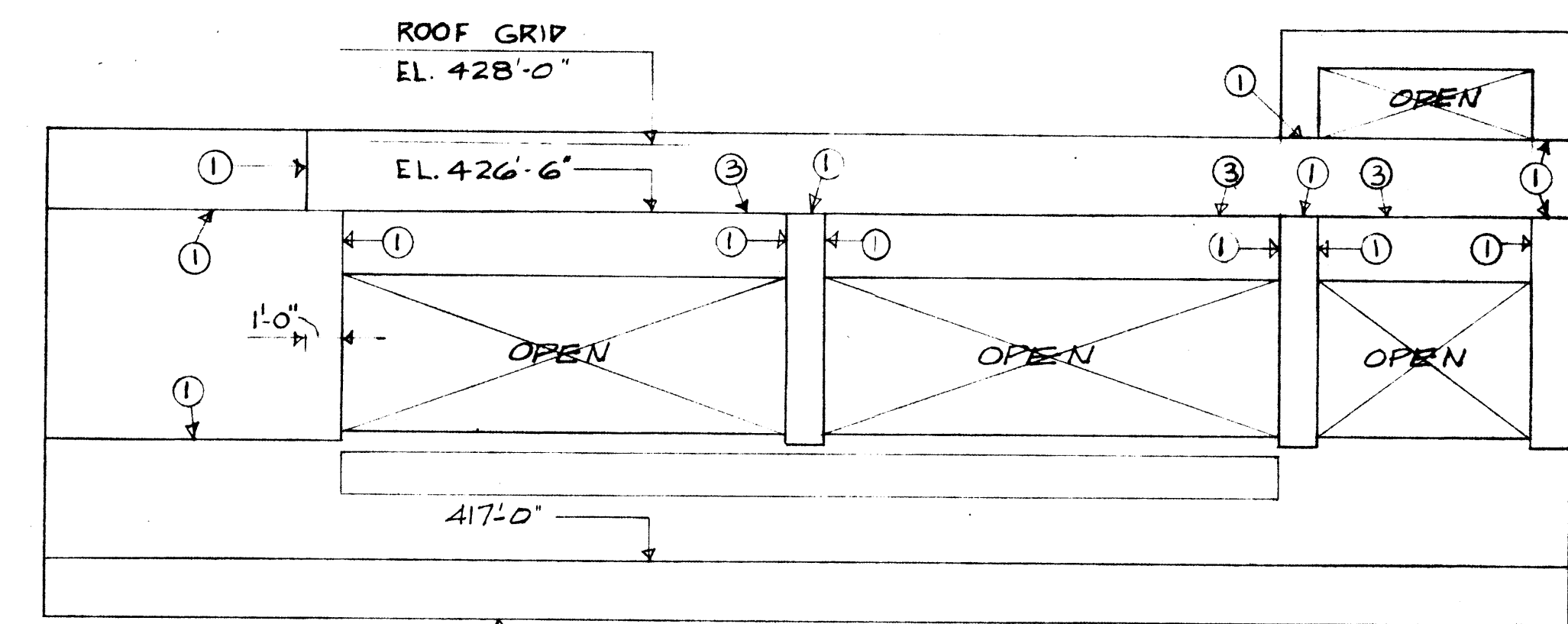
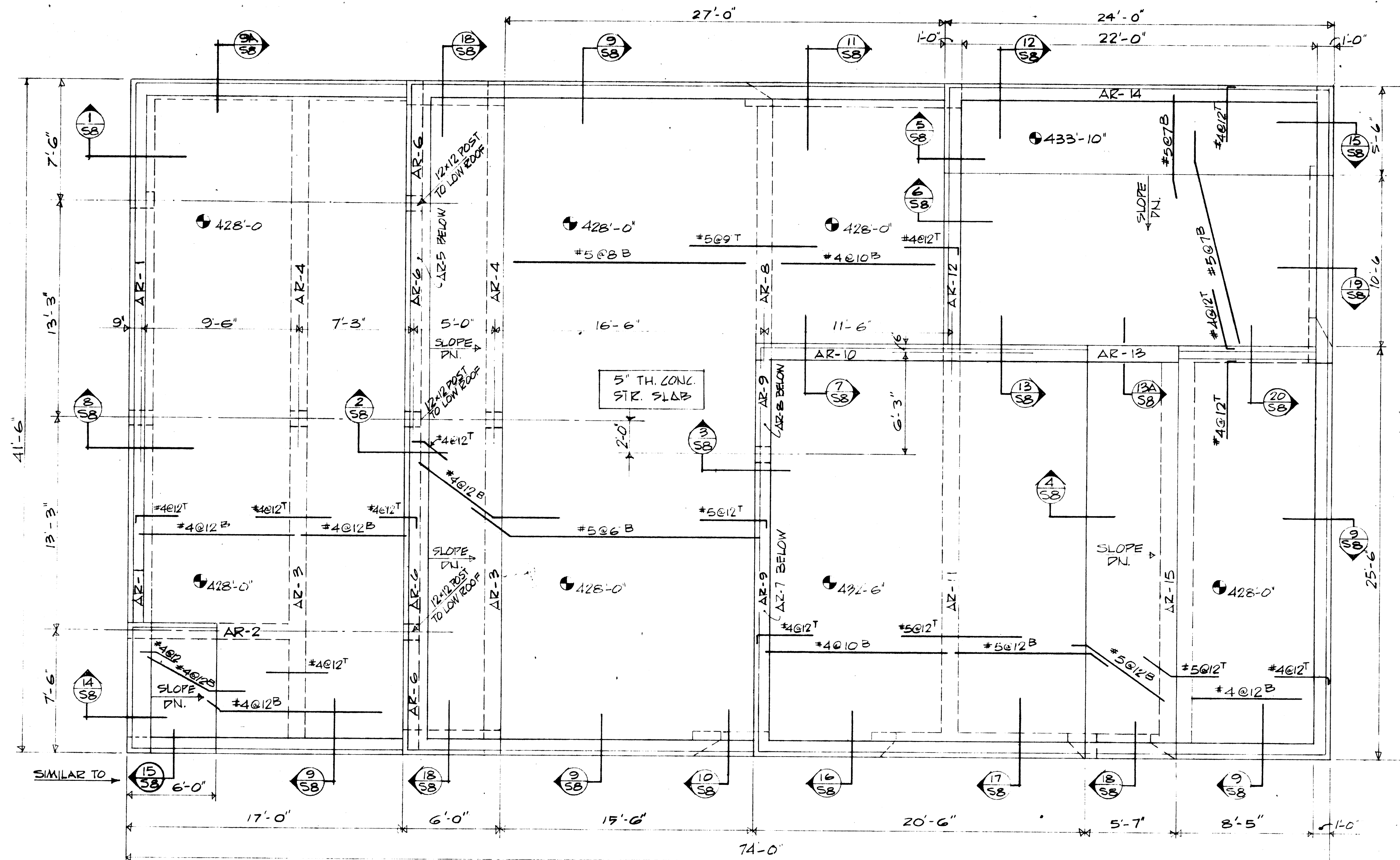
O'BRIEN & GERE  
CONSULTING ENGINEERS & SURVEYORS  
STRUCTURAL ENGINEERS

DATE: FEBRUARY 14, 1968  
SCALE: AS NOTED  
FILE NO: 85-10-16F



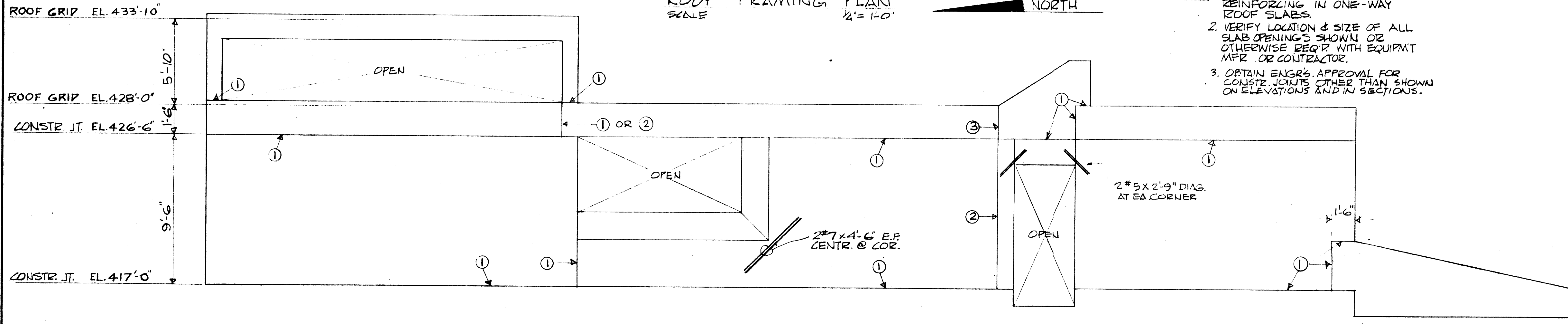
ST. MICHAEL L. GROSSI  
Professional Engineer





ROOF FRAMING PLAN  
SCALE 1/4" = 1'-0"

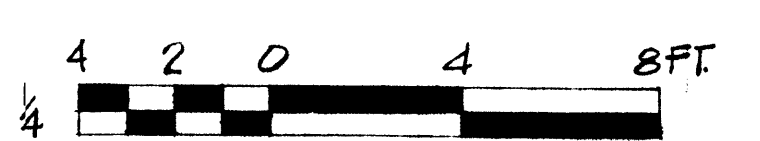
NOTE: 1. PROVIDE #4@16" O.C. TEMPERATURE REINFORCING IN ONE-WAY ROOF SLABS.  
2. VERIFY LOCATION & SIZE OF ALL SLAB OPENINGS SHOWN OR OTHERWISE REQ'D WITH EQUIPMT MFR OR CONTRACTOR.  
3. OBTAIN ENGR'S APPROVAL FOR CONSTE JOINTS OTHER THAN SHOWN ON ELEVATIONS AND IN SECTIONS.



EAST ELEVATION - JOINTING  
SCALE 1/4" = 1'-0"

JOINT LEGEND: (SEE SHT. S-14 & ARCH DWGS. FOR JOINT DETAILS)  
 ① CONSTRUCTION JOINT  
 ② CONTROL JOINT  
 ③ RUSTICATION JOINT

AS BUILT

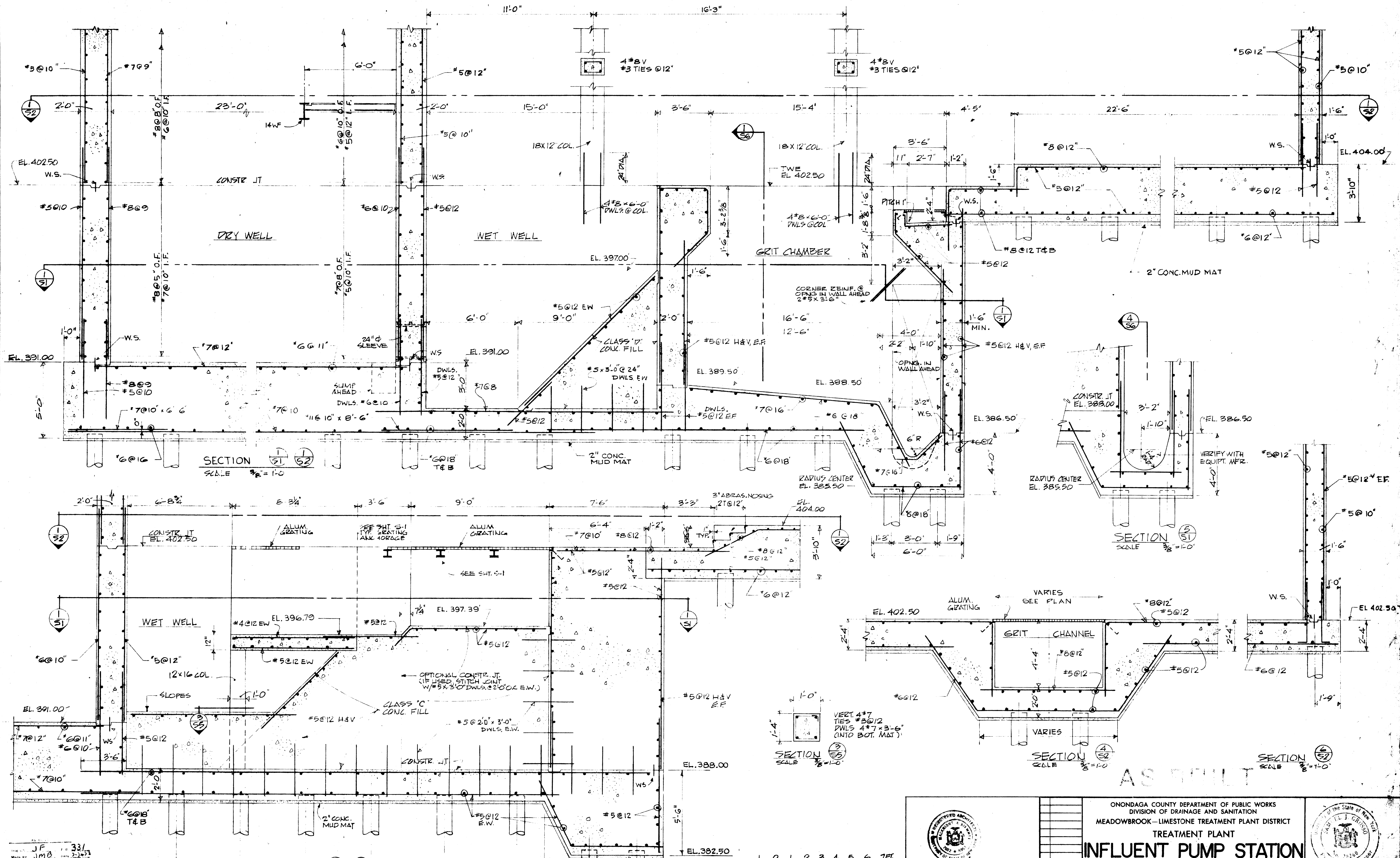


REVISIONS  
 1. J.F. 3/31  
 2. J.M.B. 3/31  
 3. J.M.B. 3/31  
 4. J.M.B. 3/31

IN CHARGE OF: TK  
 DESIGNED BY: WI  
 MADE BY: RS, JK  
 CHECKED BY: JS

	ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT <b>INFLUENT PUMP STATION</b> <b>ROOF FRAMING PLAN</b>	
	O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS STRUCTURE DIVISION 100 WEST 10TH STREET SYRACUSE, N.Y. 13204	
HACKNIGHT, KIRRMISE, FRENCH & SIZING CONSULTING ARCHITECTS 100 WEST 10TH STREET SYRACUSE, N.Y. 13204	DATE: FEBRUARY 14, 1968 SCALE: AS NOTED FILE NO.: 85M-19 F	5





SECTION 1-1  
SCALE 3/8" = 1'-0"

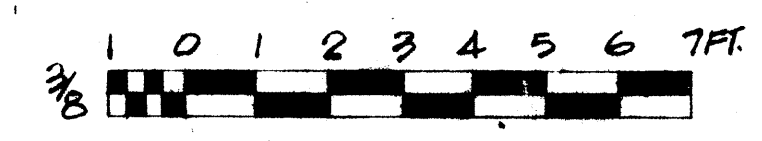
SECTION 5-5  
SCALE 3/8" = 1'-0"

SECTION 2-2  
SCALE 3/8" = 1'-0"

SECTION 3-3  
SCALE 3/8" = 1'-0"

SECTION 4-4  
SCALE 3/8" = 1'-0"

IN CHARGE OF: TK  
 DESIGNED BY: WI  
 MADE BY: RS, JK  
 CHECKED BY: JS



REGISTERED ARCHITECT  
 HACKETT - KIRKPATRICK FRENCH & SIZING  
 CONSULTING ARCHITECTS  
 100 WASHINGTON ROAD  
 SYRACUSE, N.Y. 13202

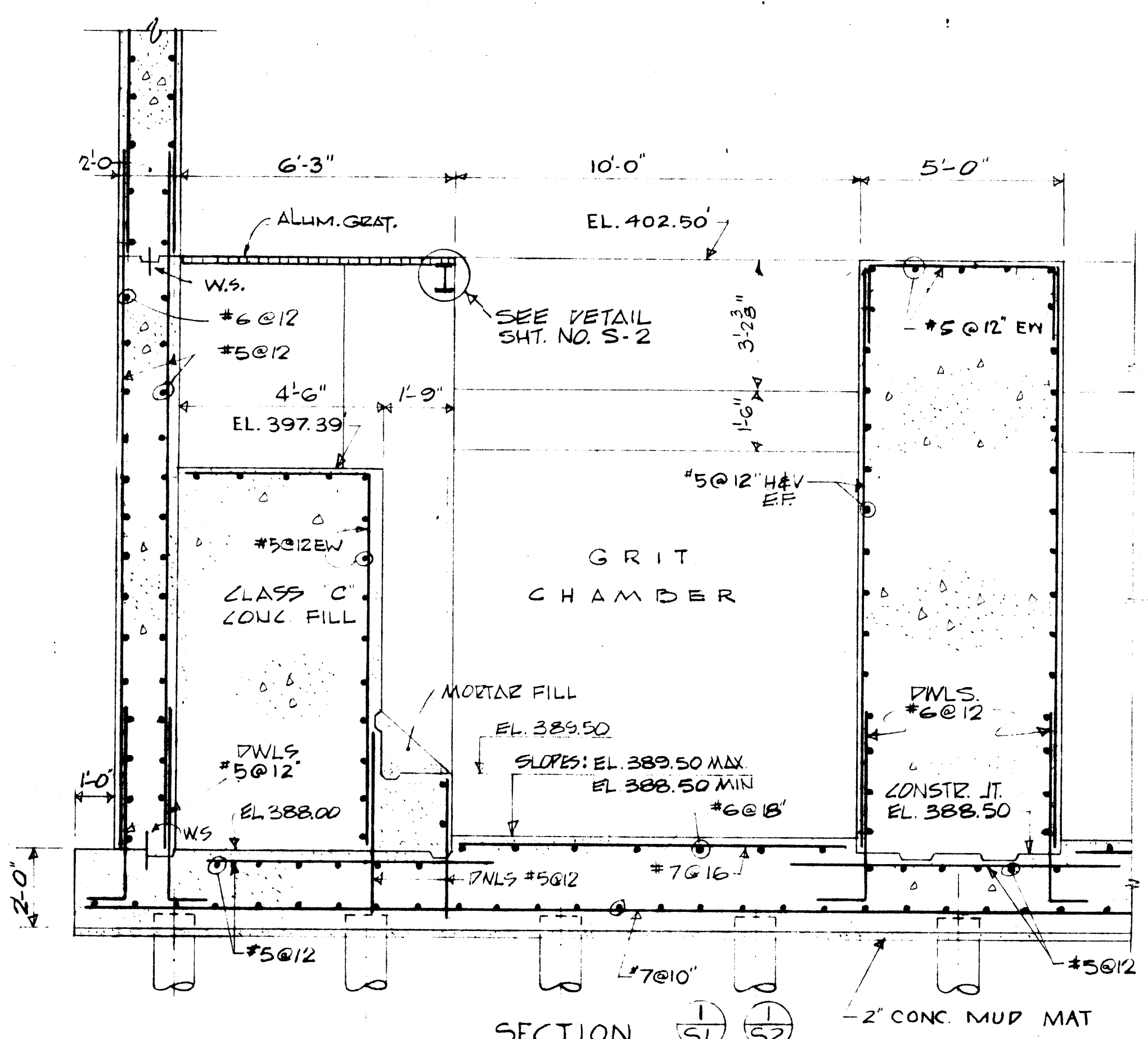
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF DRAINAGE AND SANITATION  
 MEADOWBROOK—LIMESTONE TREATMENT PLANT DISTRICT  
 TREATMENT PLANT  
**INFLUENT PUMP STATION**  
**SUBSTRUCTURE SECTION**

O'BRIEN & GERE  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 SYRACUSE, NEW YORK

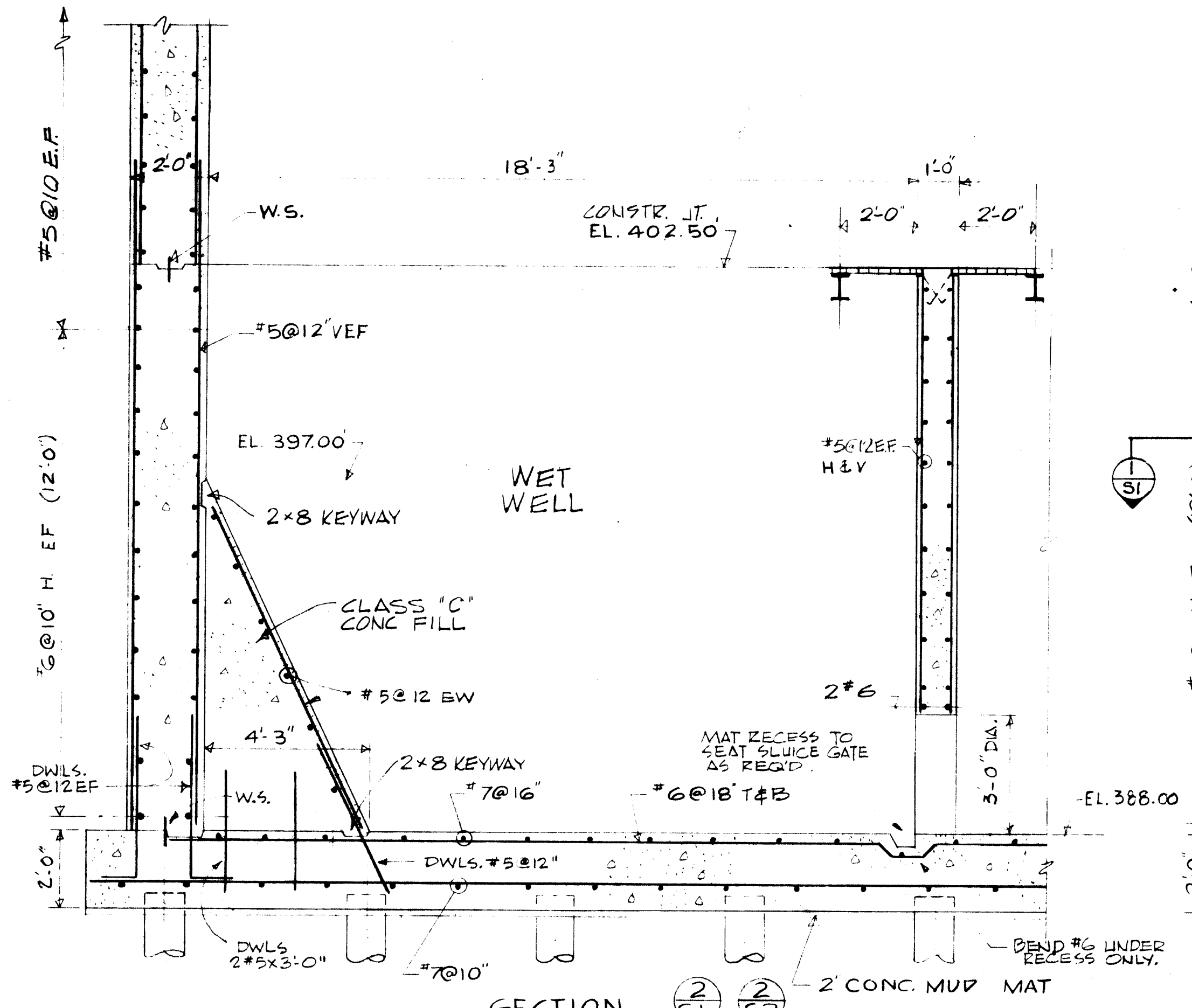
DATE: FEBRUARY 14, 1968  
 SCALE: AS NOTED  
 FILE NO.: 15149-20F

AS NOTED

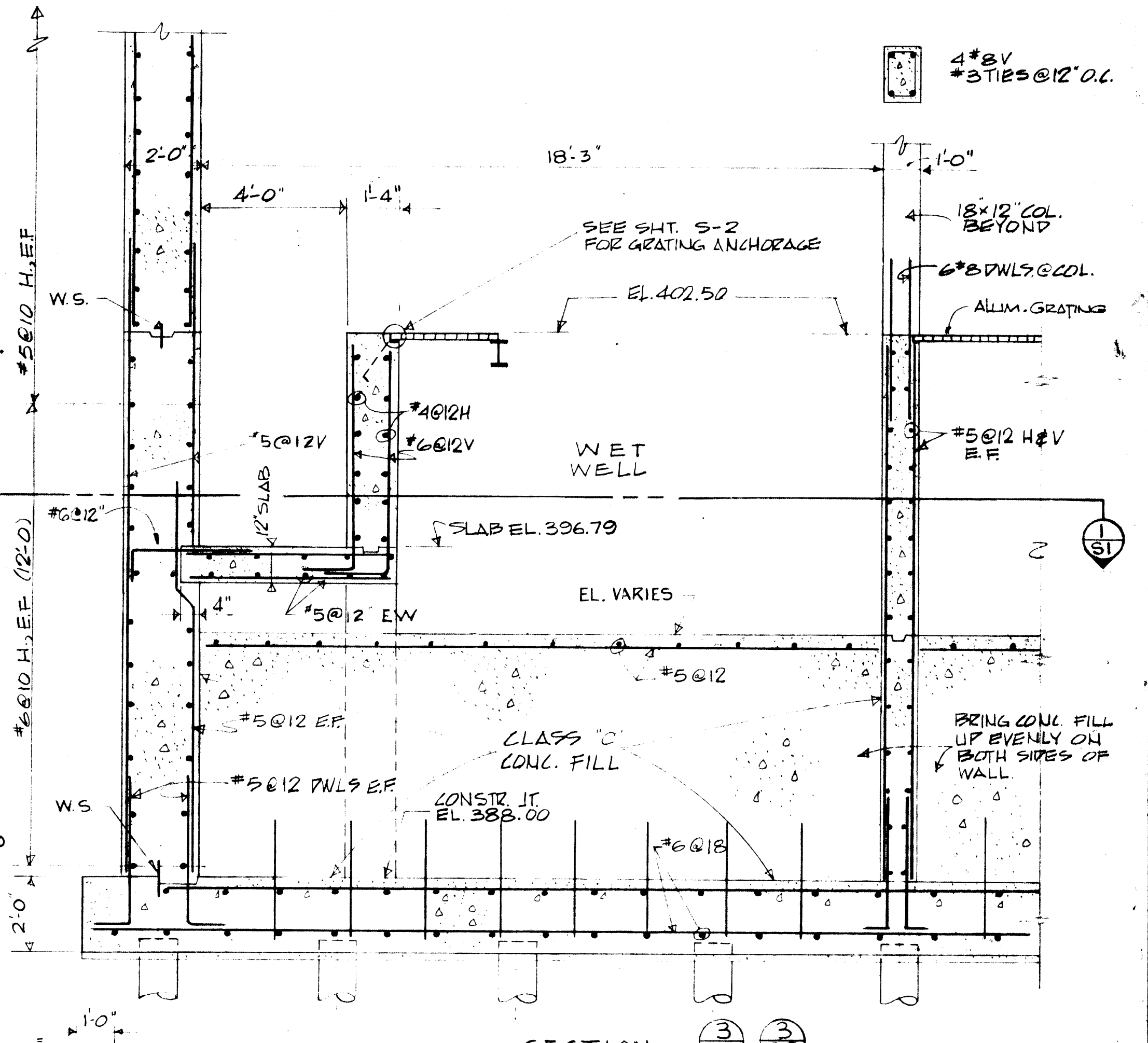




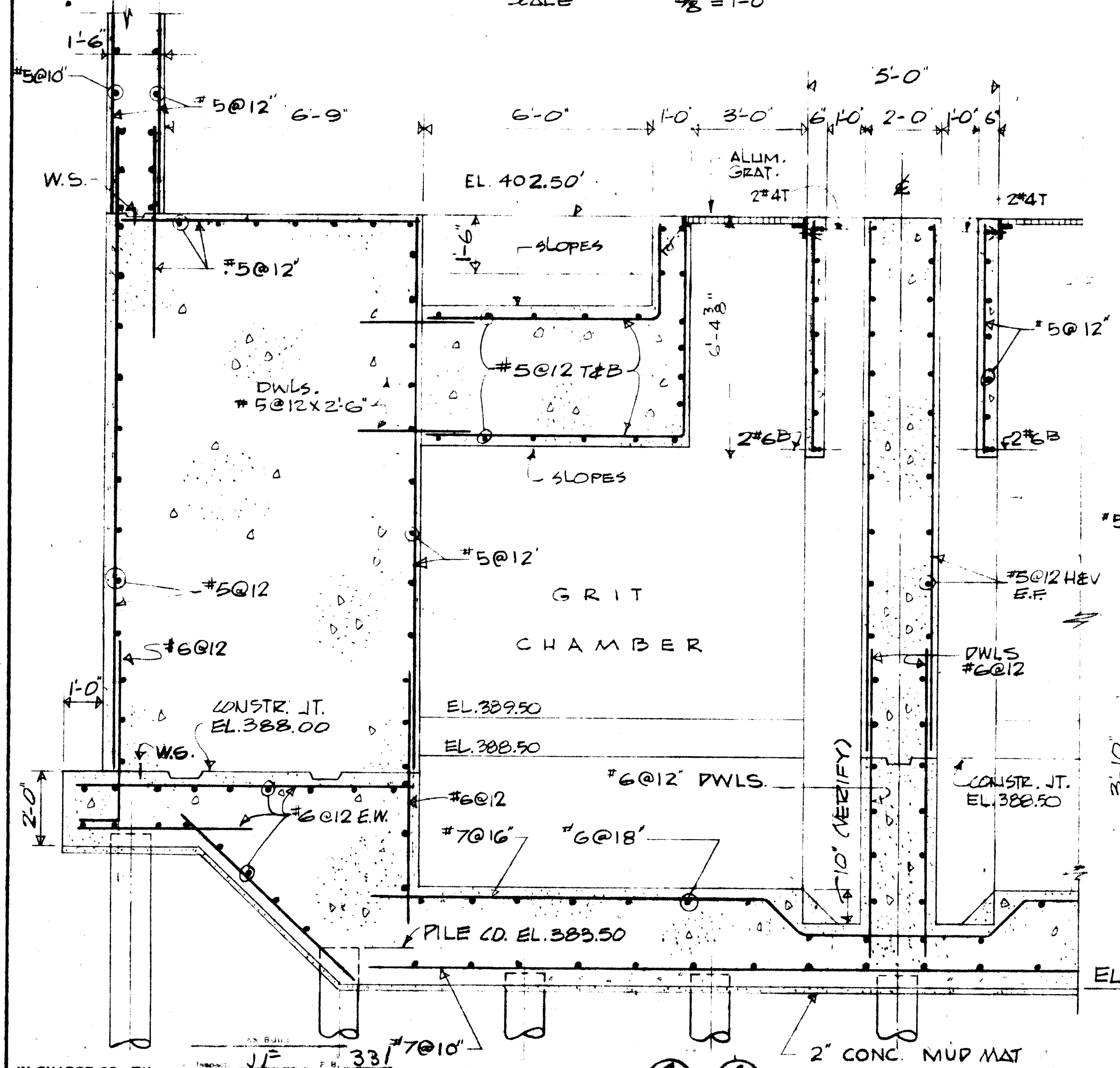
SECTION 1-1 1-2  
SCALE 3/8" = 1'-0"



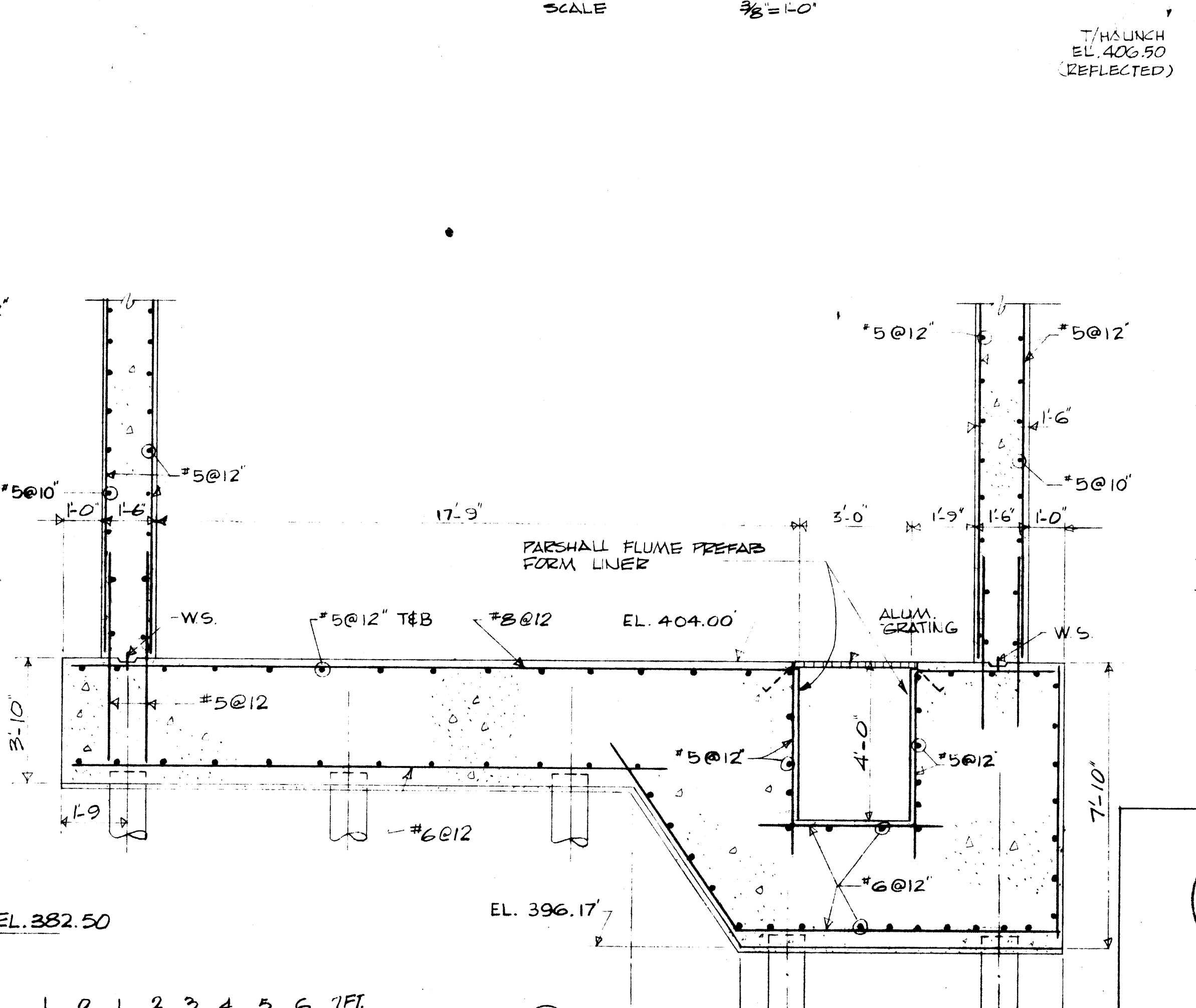
SECTION 2-1 2-2  
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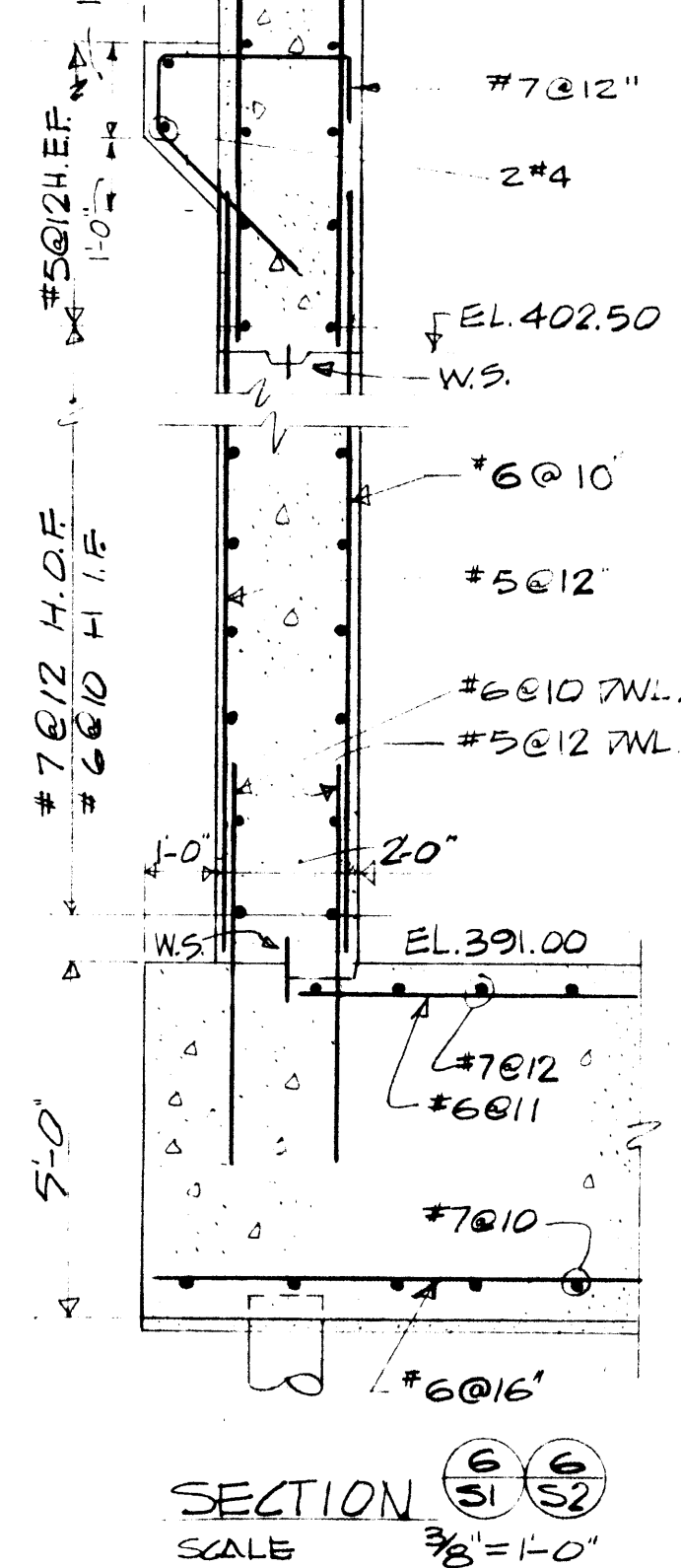
SECTION 3-1 3-2  
SCALE 3/8" = 1'-0"



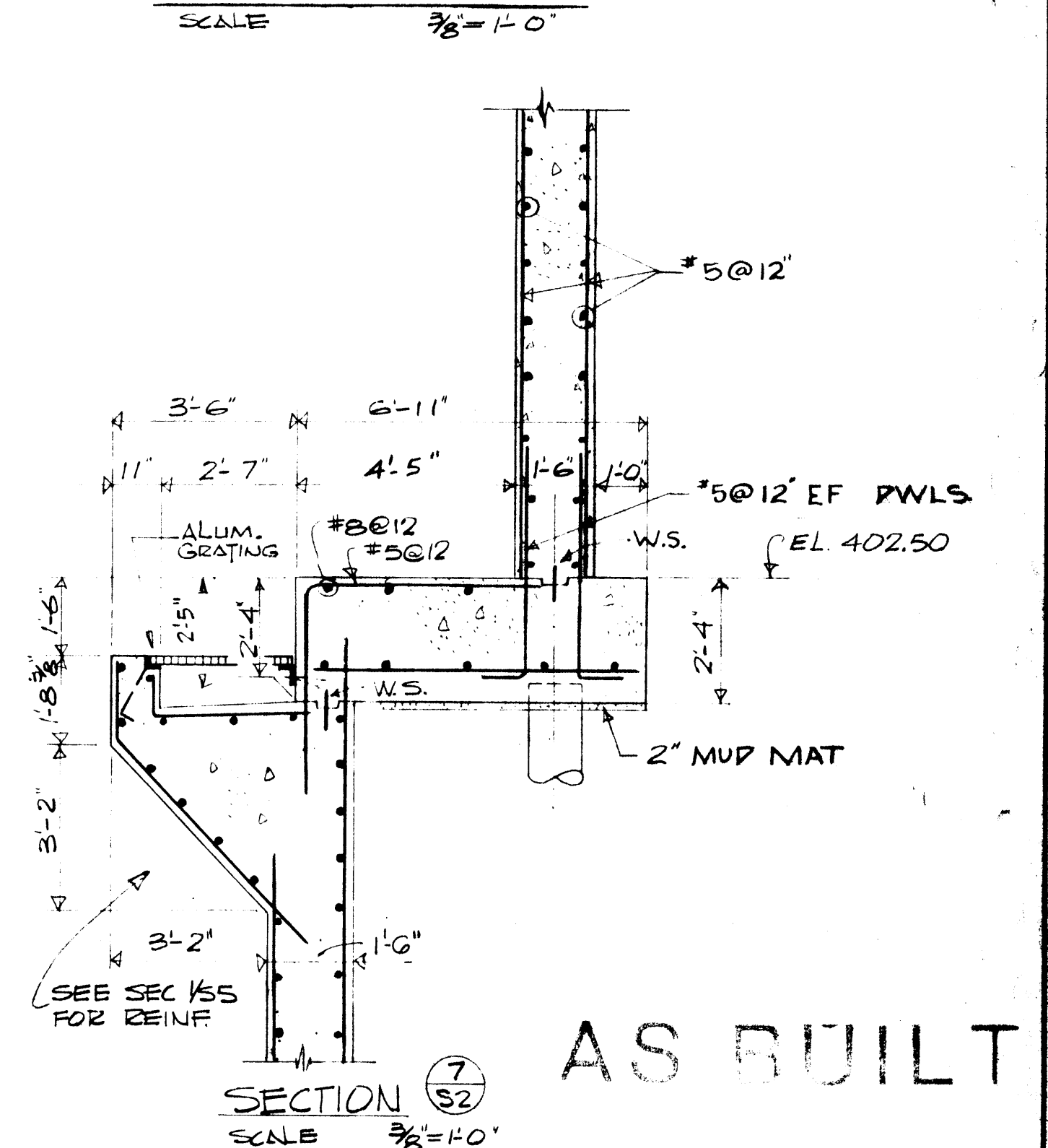
SECTION 4-1 4-2  
SCALE 3/8" = 1'-0"



SECTION 5-1 5-2  
SCALE 3/8" = 1'-0"



SECTION 6-1 6-2  
SCALE 3/8" = 1'-0"

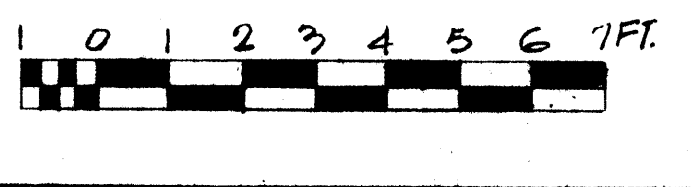


SECTION 7-1 7-2  
SCALE 3/8" = 1'-0"

AS BUILT

IN CHARGE OF: TK  
DESIGNED BY: WJ  
MADE BY: RS, JK  
CHECKED BY: JS

SECTION 4-1 4-2  
SCALE 3/8" = 1'-0"



SECTION 5-1 5-2  
SCALE 3/8" = 1'-0"

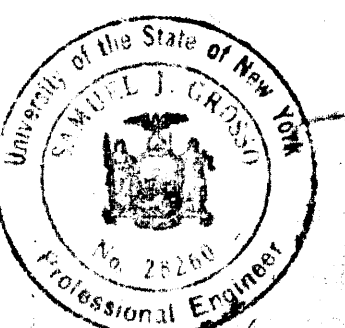


KIRKMAN, KIRKMAN, FRENCH & JERNIGAN  
CONSULTING ARCHITECTS  
180 N. 1ST ST.  
SARASOTA, FLA. 34236

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK—LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT  
**INFLUENT PUMP STATION  
SUBSTRUCTURE SECTIONS**

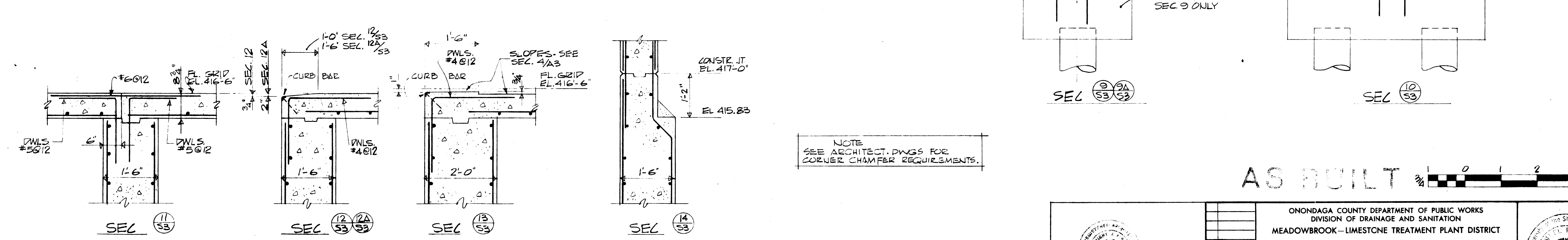
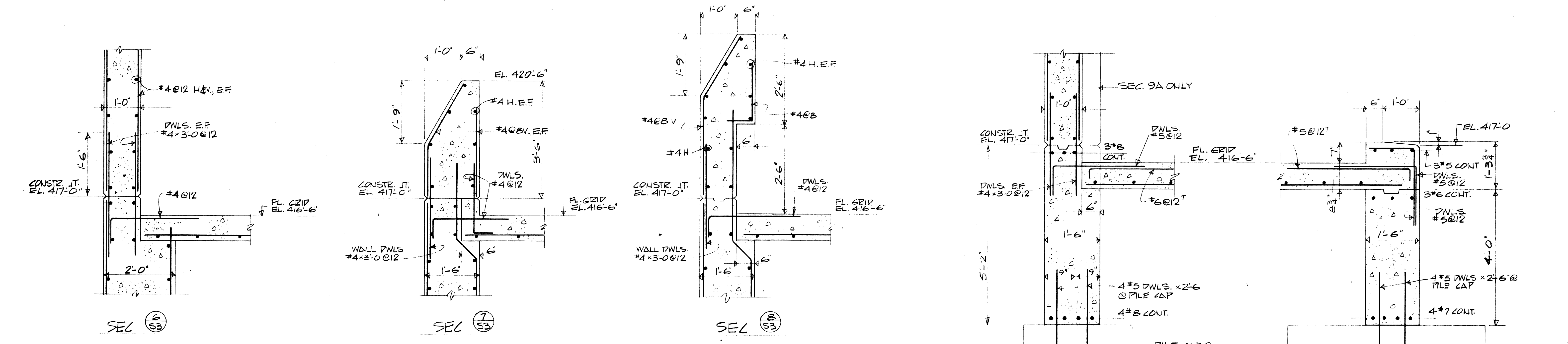
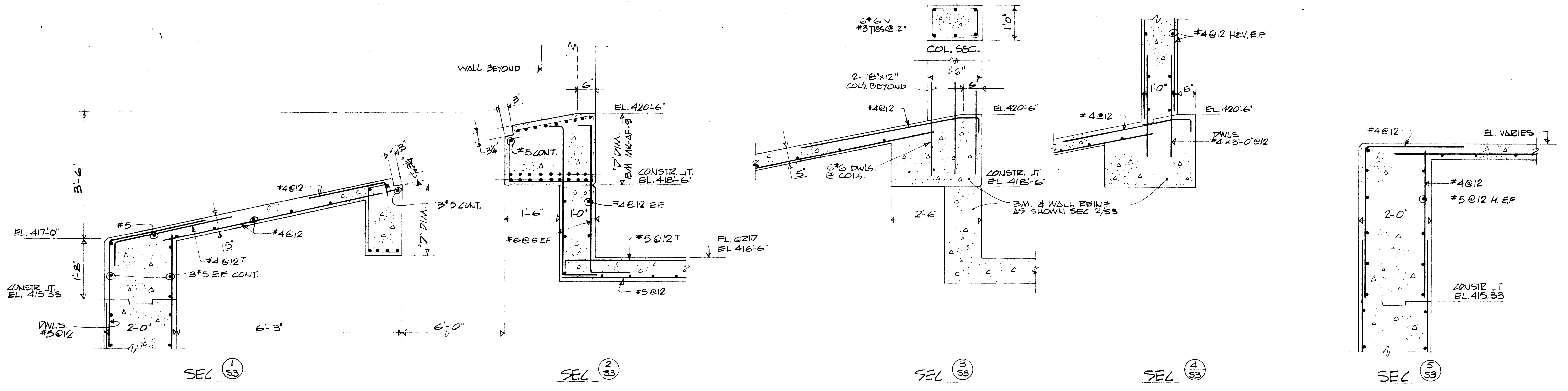
O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
100 N. 1ST ST.  
SARASOTA, FLA.

DATE: FEBRUARY 14, 1968  
SCALE: AS NOTED  
FILE NO.: 1538-21F



S-6





NOTE  
SEE ARCHITECT. DWGS FOR  
CORNER CHAMFER REQUIREMENTS.

AS BUILT

IN CHARGE OF: TK  
DESIGNED BY: WI  
MADE BY: RS  
CHECKED BY: JS

33/1  
2-7-72  
7-2-72  
7-2-72

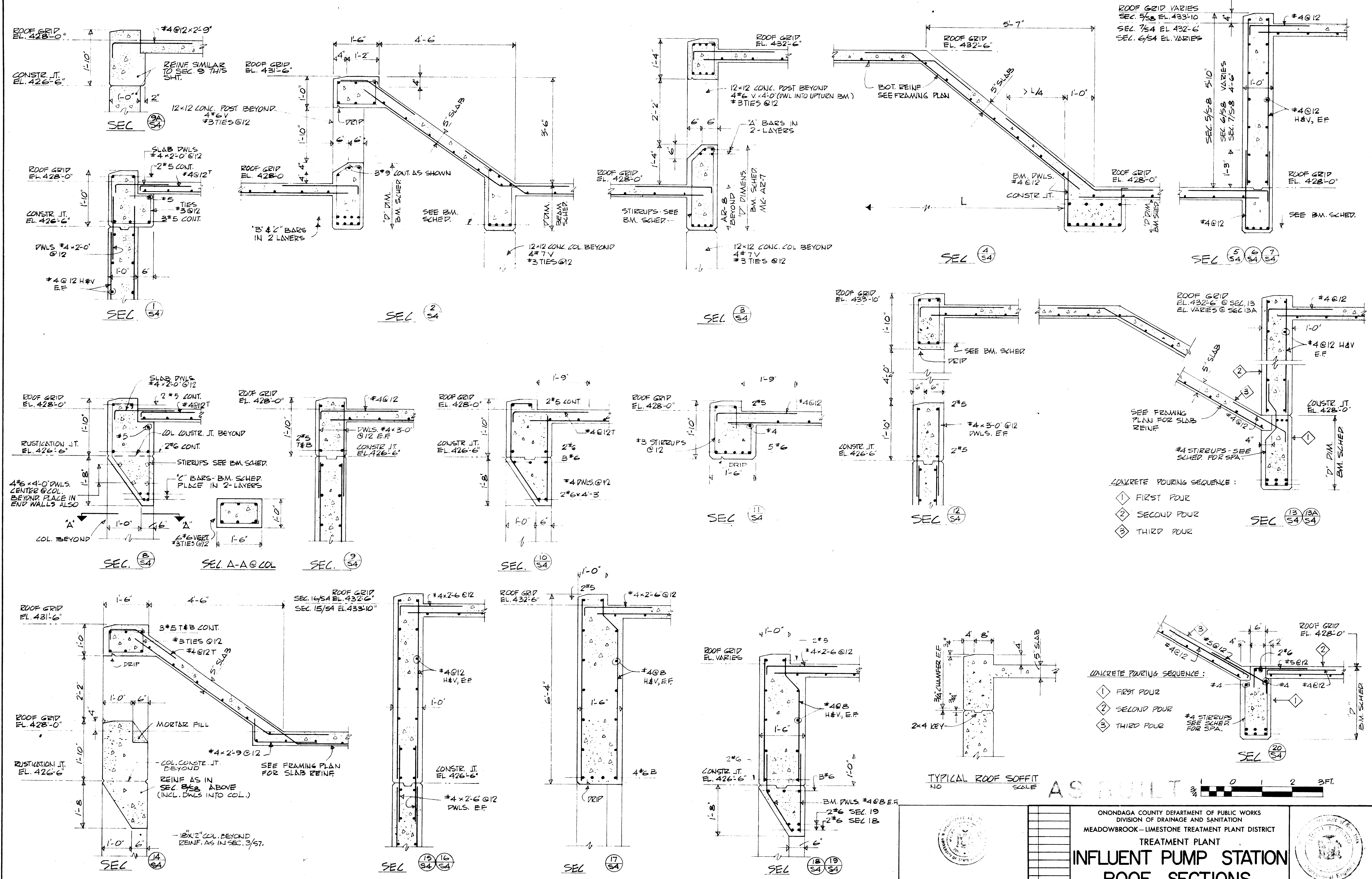
WACKNIGHT KIRMSE FRENCH & SIKING  
CONSULTING ARCHITECTS  
SYRACUSE, N. Y. 13206

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT  
**INFLUENT PUMP STATION  
FLOOR SECTIONS**

O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
SYRACUSE, N. Y.

DATE: FEBRUARY 14, 1968  
SCALE: AS NOTED  
FILE NO.: 15.149-22 F

Professional Engineer  
No. 26504



ROOF GRID VARIES  
 SEC. 5/58 EL. 433-10  
 SEC. 7/54 EL. 432-6  
 SEC. 6/54 EL. VARIES

- CONCRETE POURING SEQUENCE:
- 1 FIRST POUR
  - 2 SECOND POUR
  - 3 THIRD POUR

- CONCRETE POURING SEQUENCE:
- 1 FIRST POUR
  - 2 SECOND POUR
  - 3 THIRD POUR

TYPICAL ROOF SOFFIT  
 NO. 2x4 KEY

AS BUILT 0 1 2 3 FT.

IN CHARGE OF: TK  
 DESIGNED BY: WI  
 MADE BY: RS  
 CHECKED BY: JS

JFB 33/  
 JMB 2-7-72  
 WJB 7-7-72

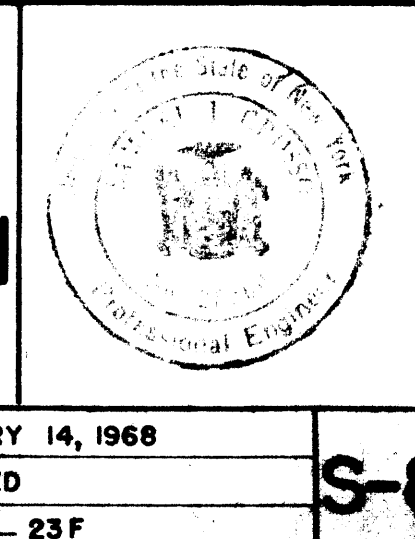
SEANIGHT KINROSS & ASSOCIATES  
 CONSULTING ARCHITECTS  
 646 BLDG. SEENY  
 SYRACUSE, N. Y. 13202

DATE: 7/7/72  
 REVISIONS

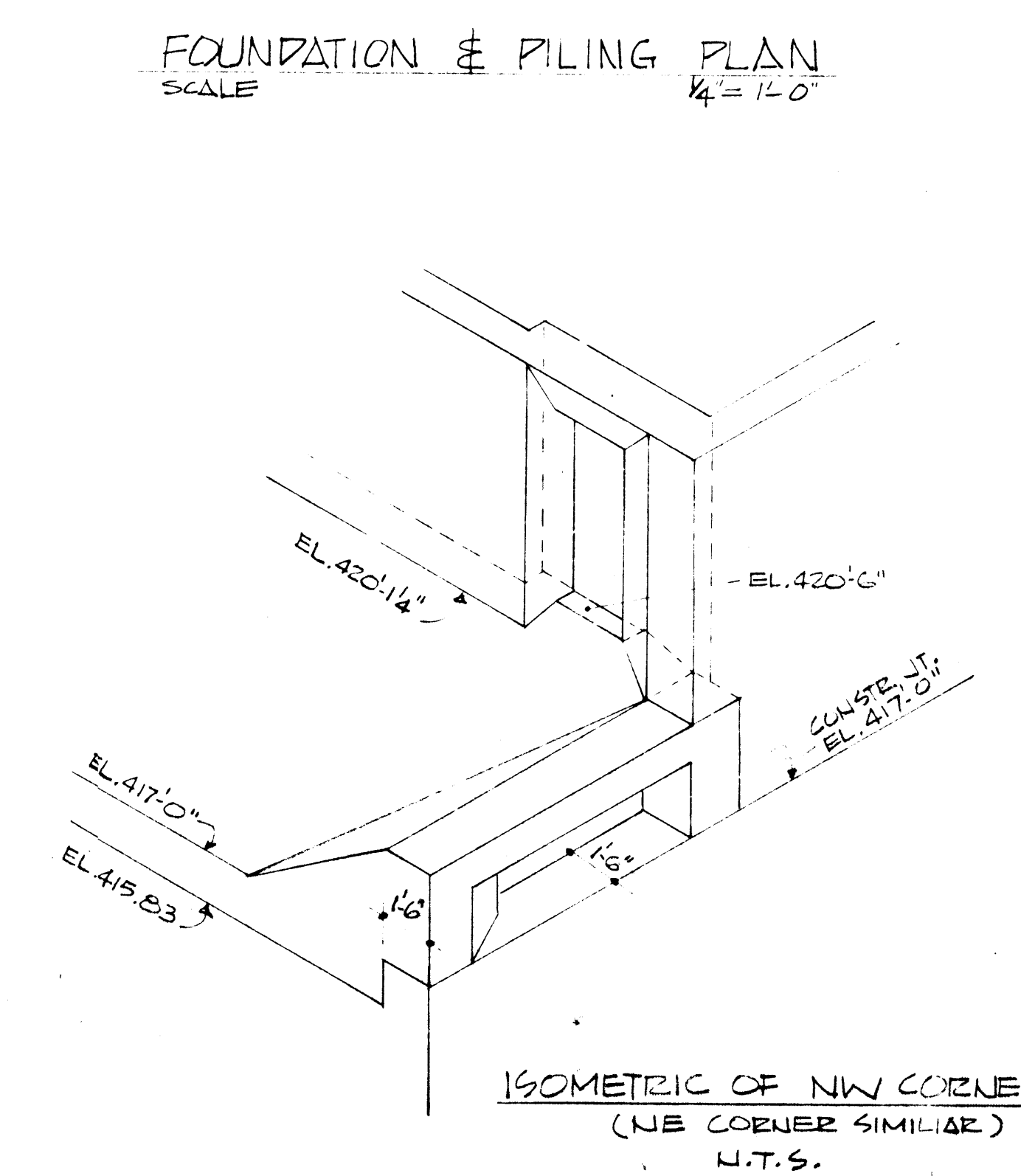
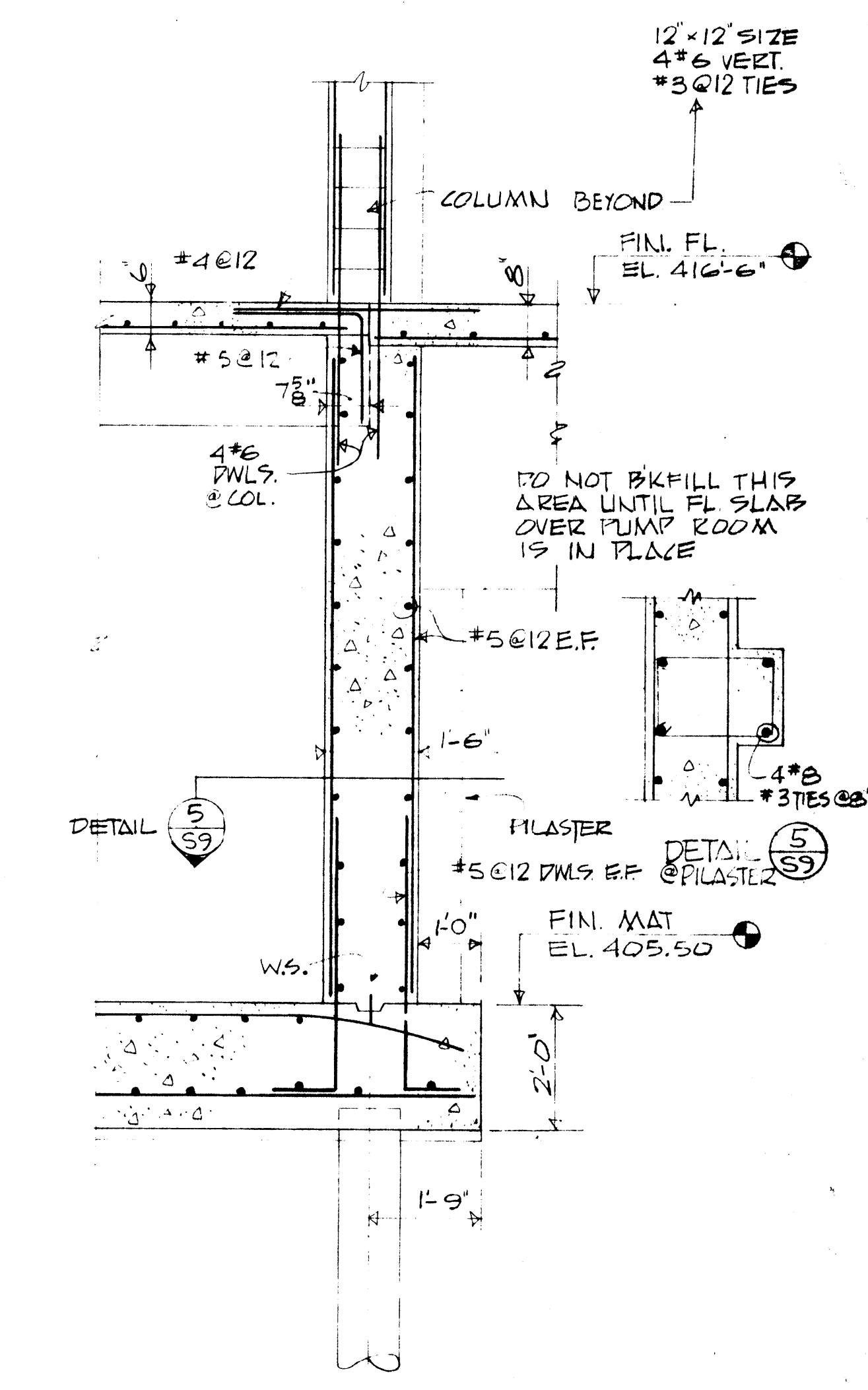
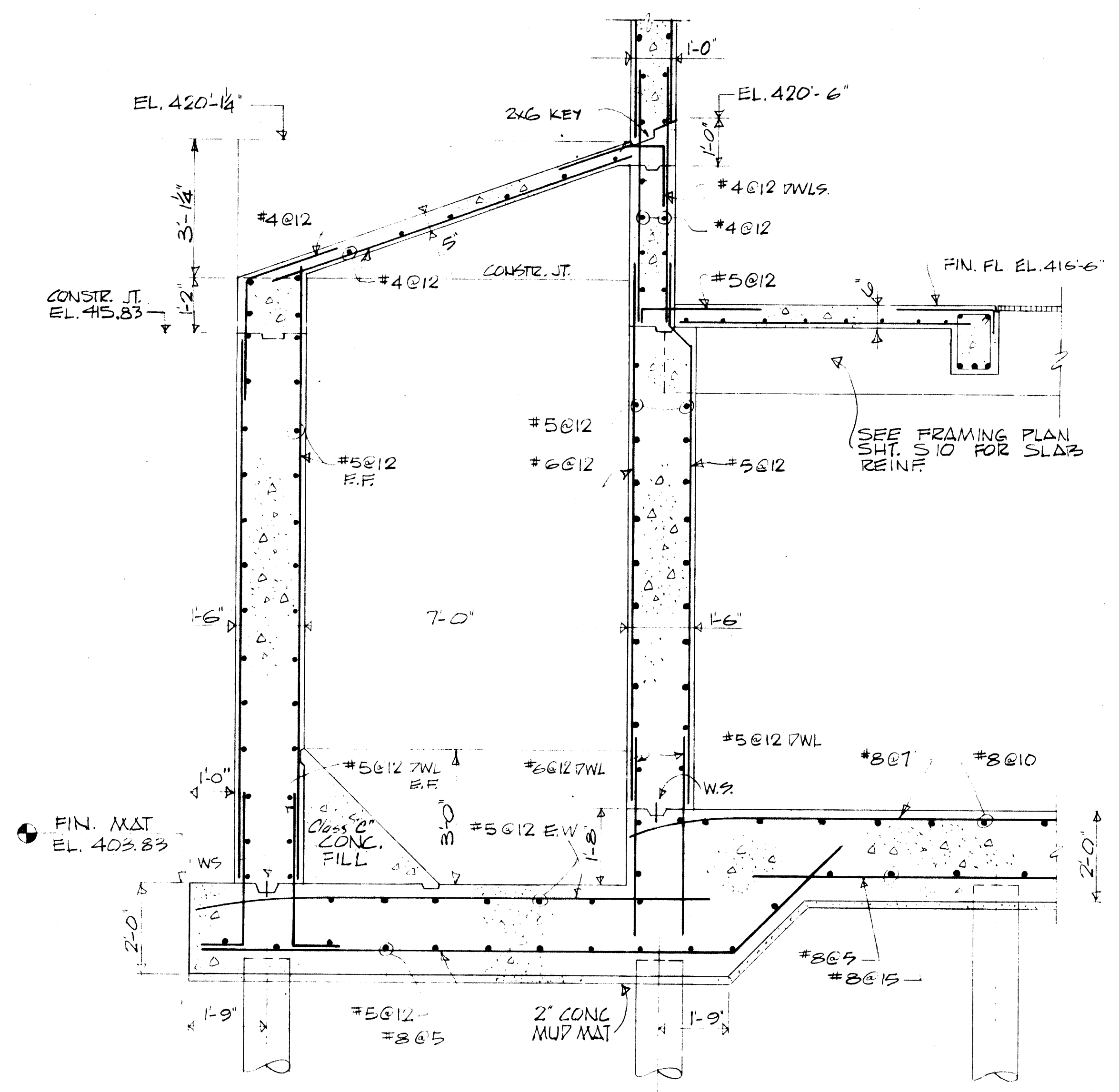
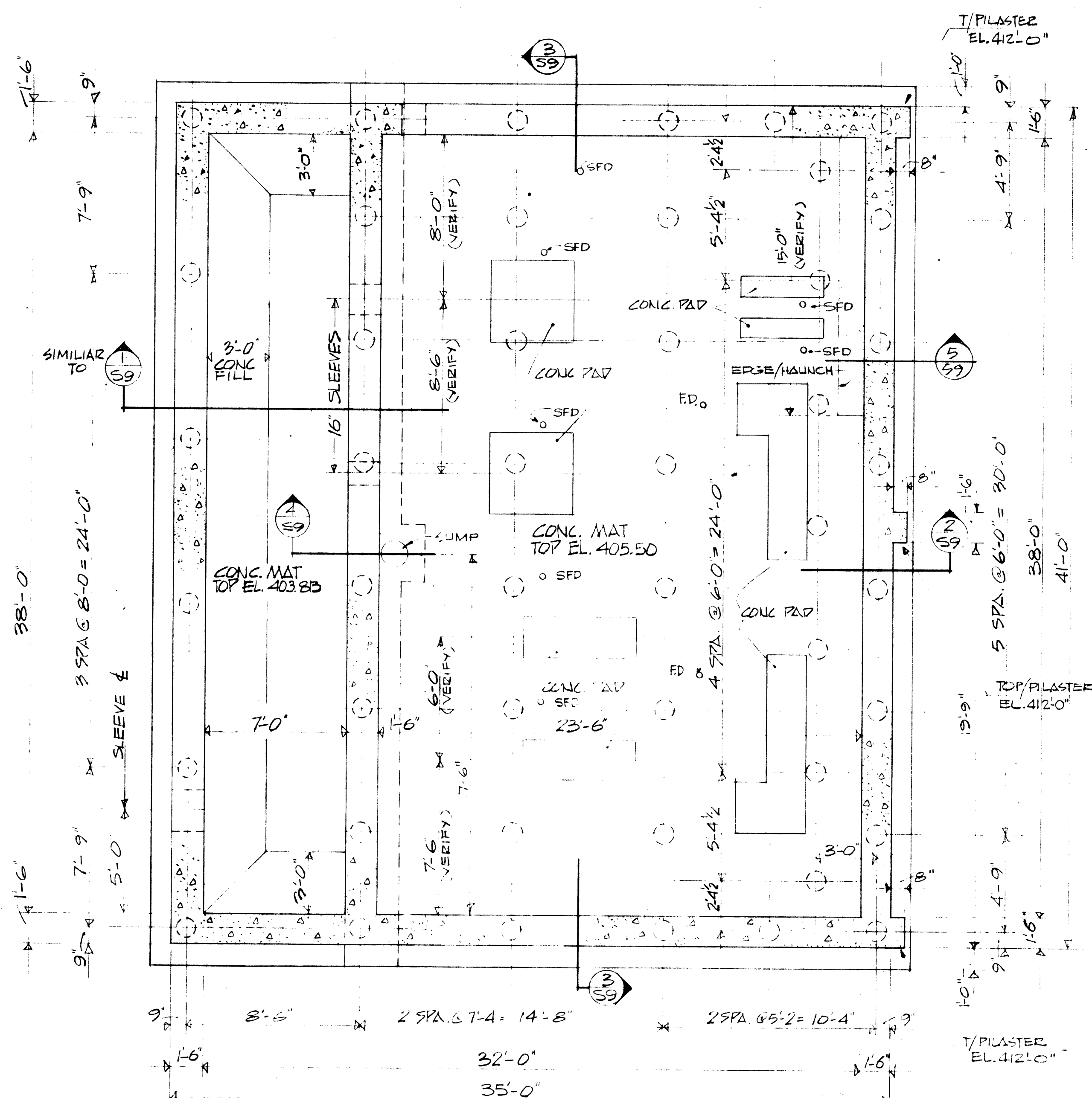
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF DRAINAGE AND SANITATION  
 MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT  
 TREATMENT PLANT  
**INFLUENT PUMP STATION**  
**ROOF SECTIONS**

O'BRIEN & GERE  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 SYRACUSE, NEW YORK

DATE: FEBRUARY 14, 1968  
 SCALE: AS NOTED  
 FILE NO.: 15.107 - 23F

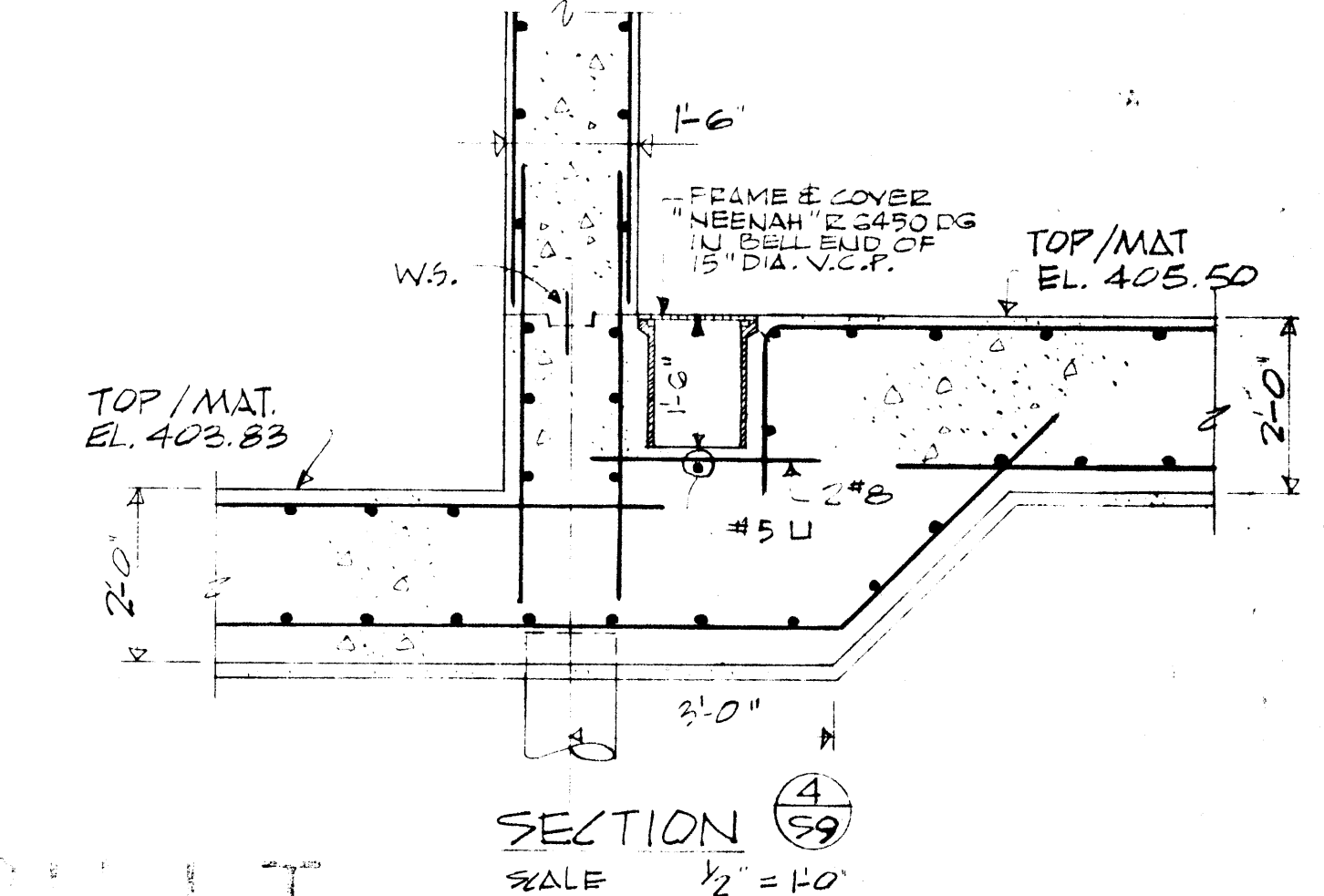
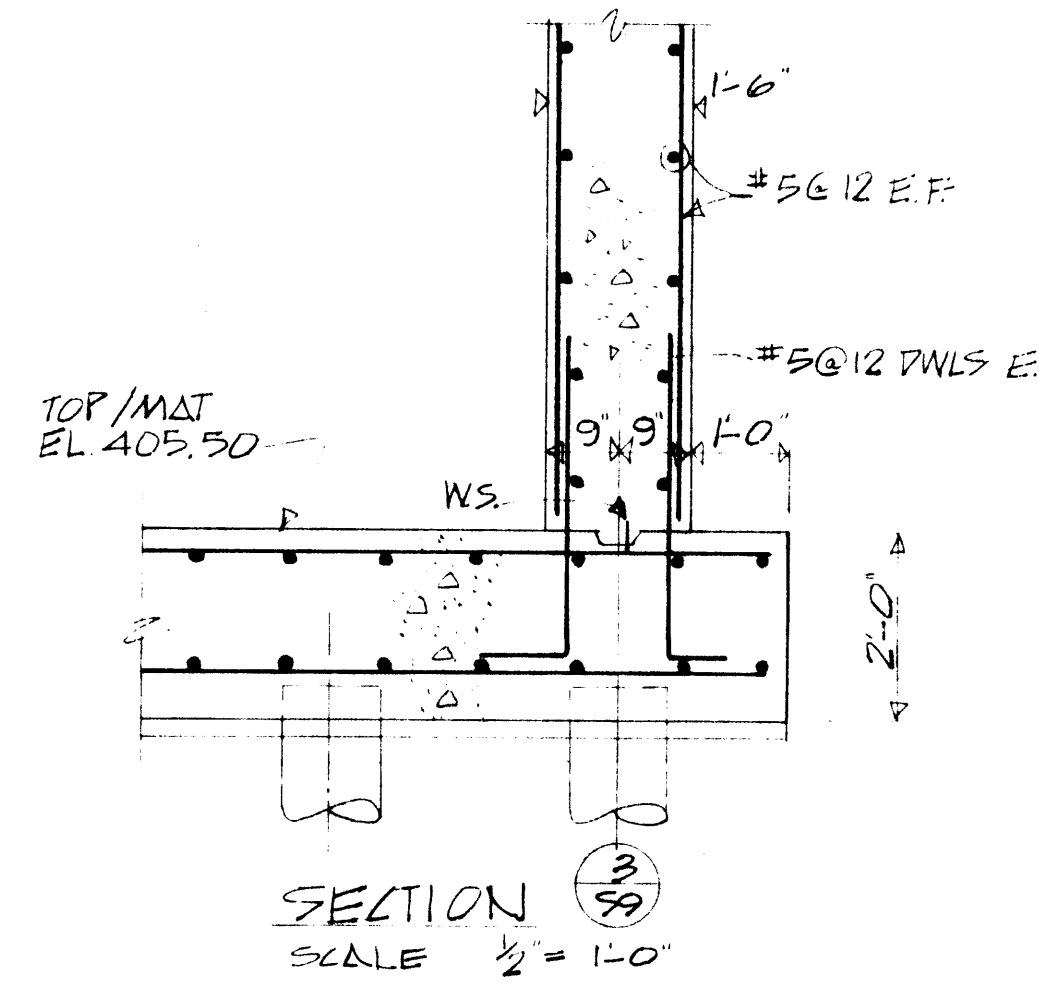
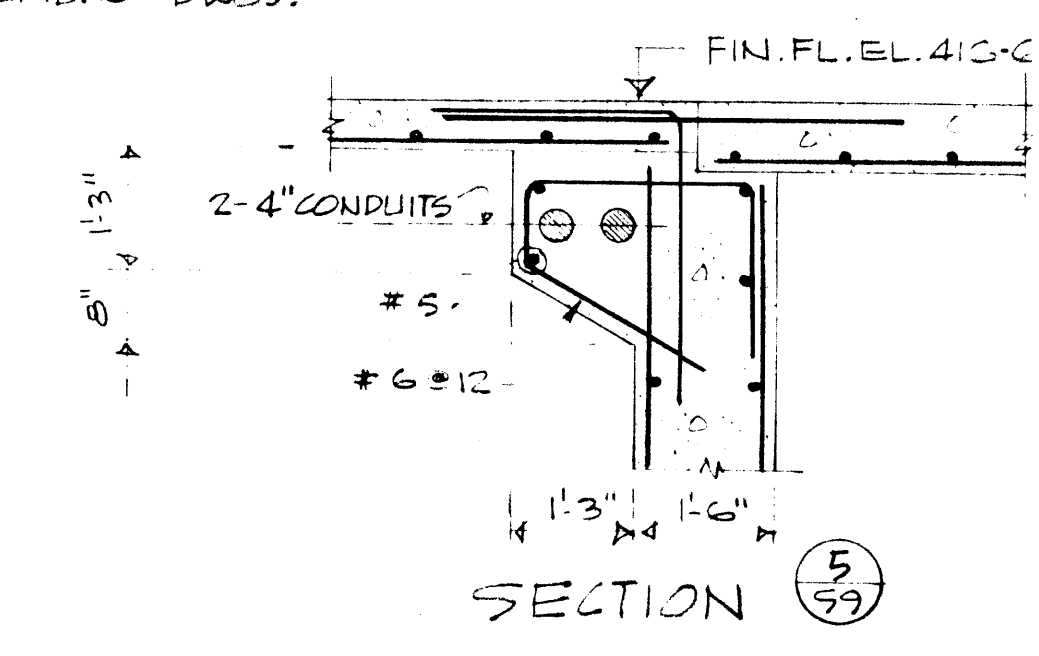






NOTES:

- VERIFY LOCATION & SIZE OF CONC. EQUIPT PADS SHOWN W/ MFR. & ENGINEER.
- VERIFY AND COORDINATE LOCATION OF FLOOR DRAINS SHOWN (F.D.) W/ PLUMBING DWSS.



JF 33/

JMB 3-2-72

JMB 3-2-72

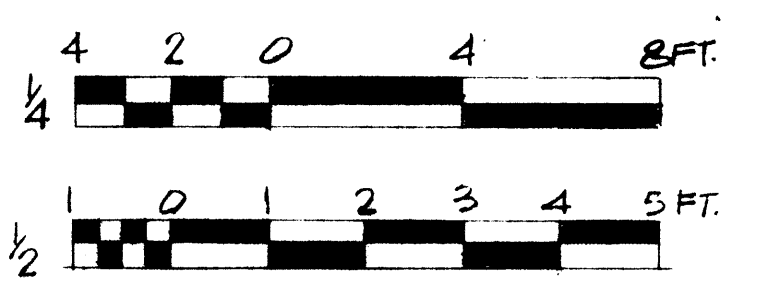
WJP 7-7-72

IN CHARGE OF: TK

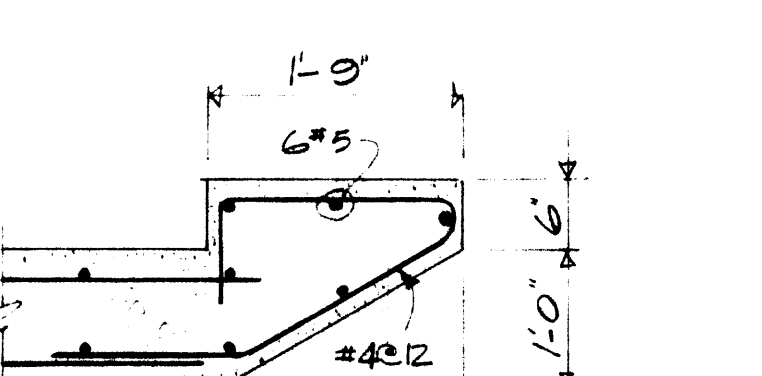
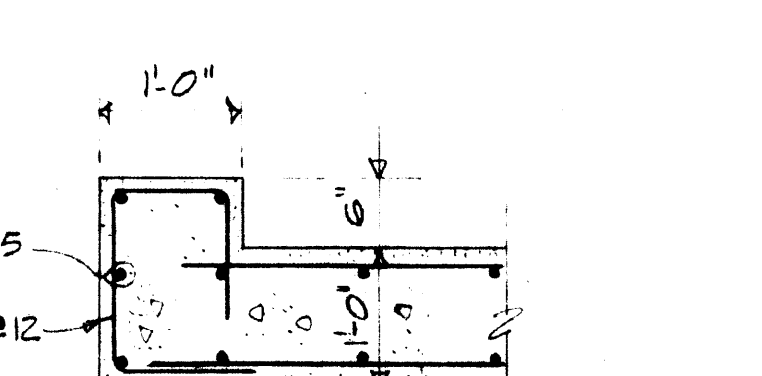
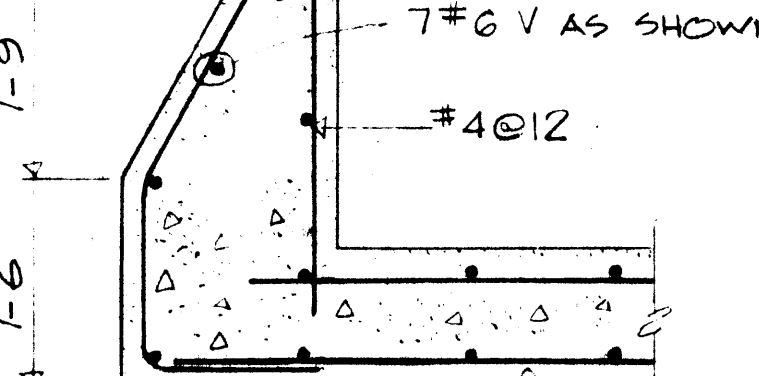
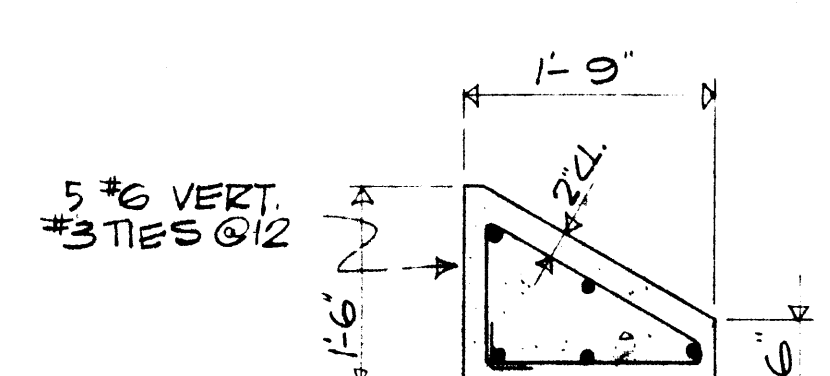
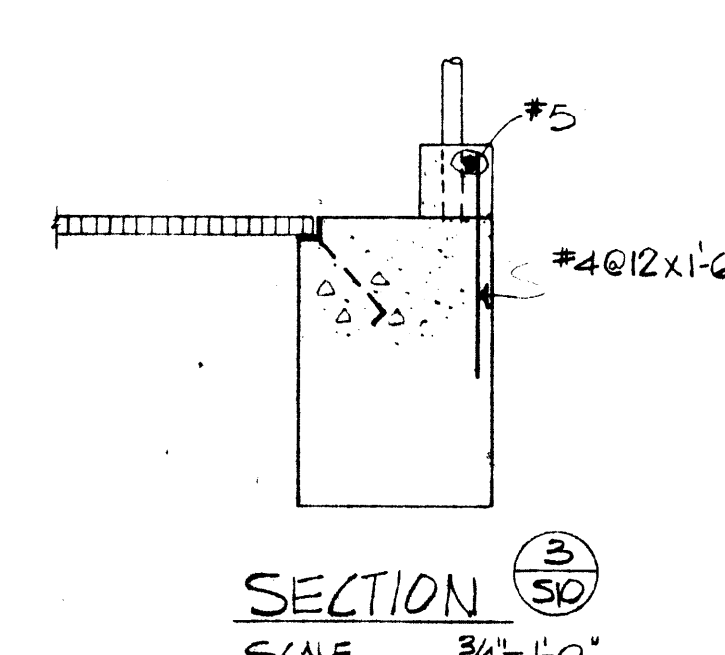
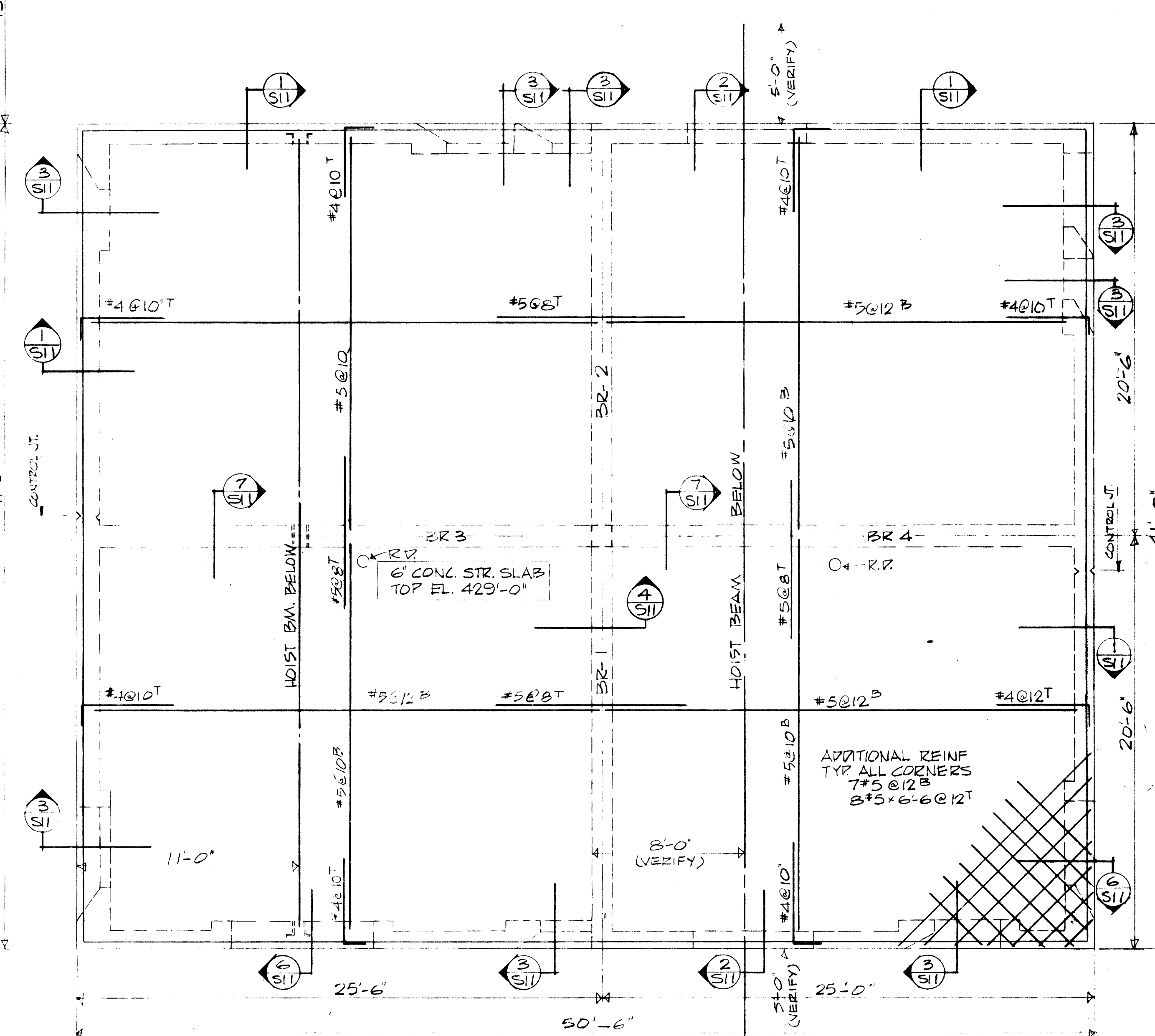
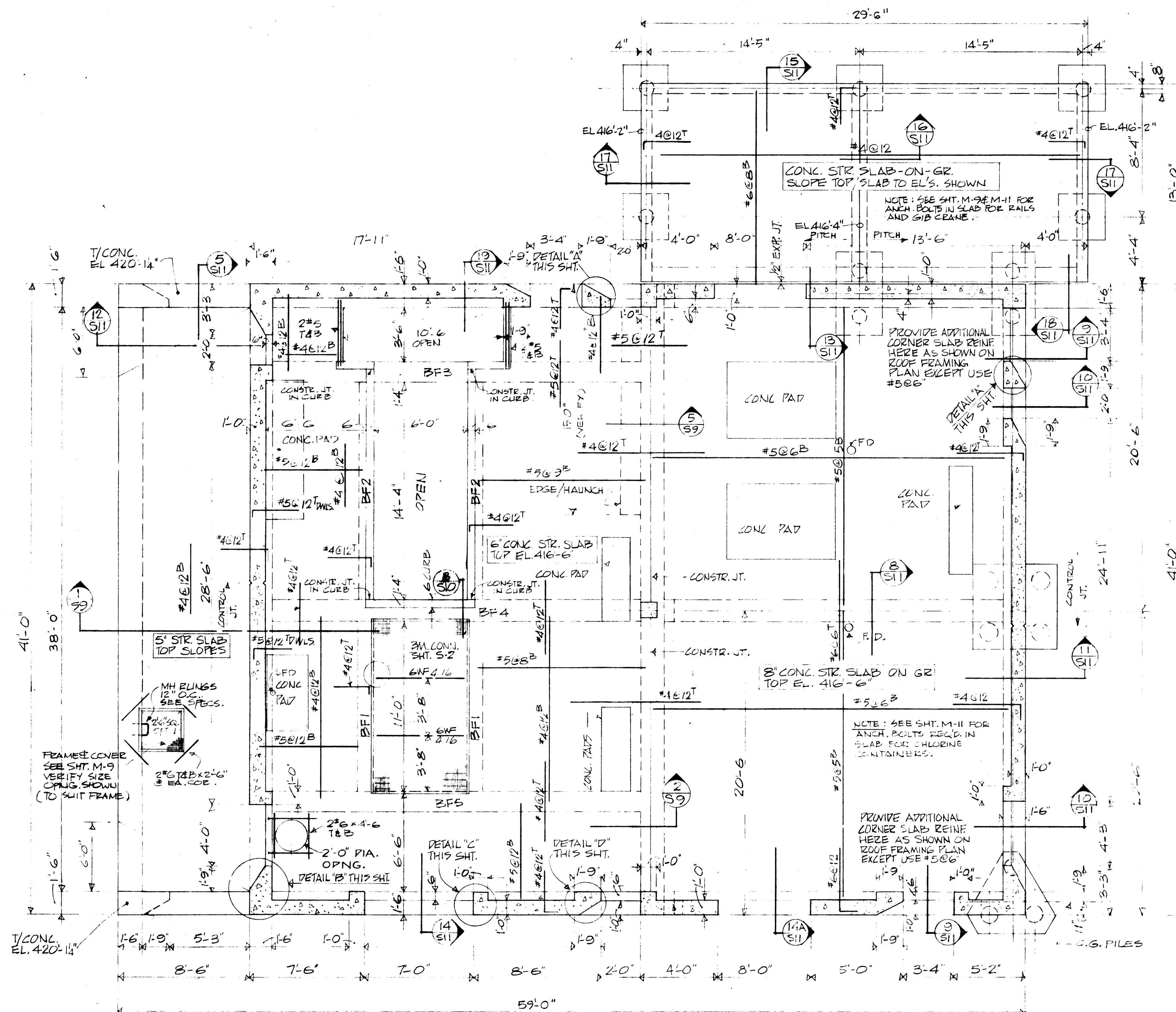
DESIGNED BY: WI

MADE BY: RS

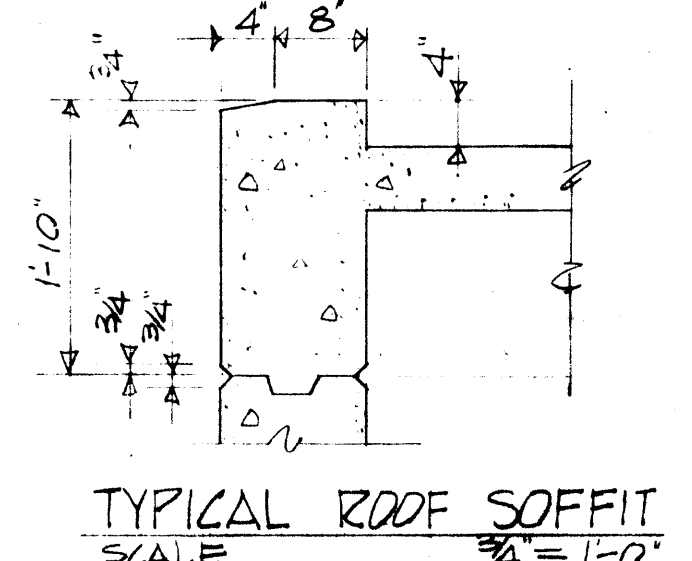
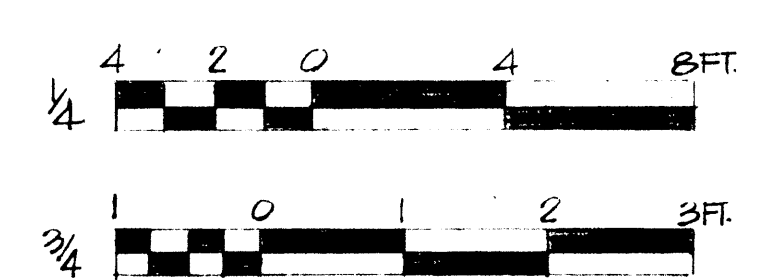
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	ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK—LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT <b>SLUDGE PUMP STATION</b> <b>FOUNDATION PLAN</b>		
	O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: AS NOTED FILE NO.: 15.10-24F	



AS BUILT



IN CHARGE OF: TK  
DESIGNED BY: WI  
MADE BY: RS  
CHECKED BY: JS

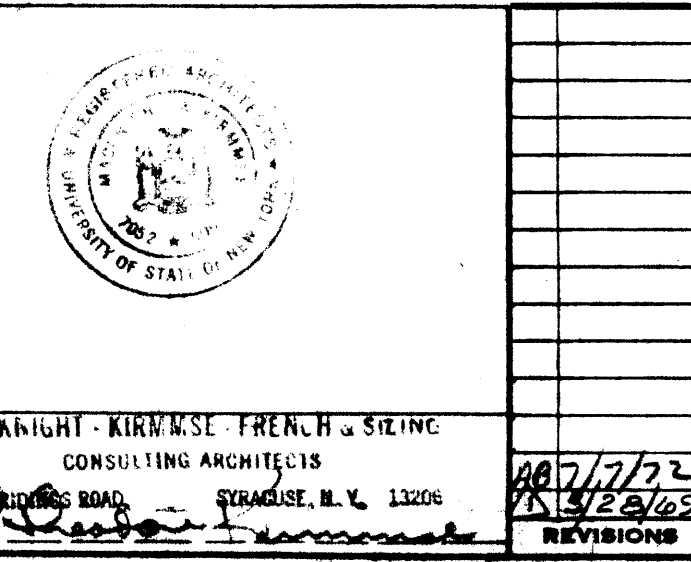
JF  
JMB  
JMP  
JJP

331  
7-5-52  
2-2-52  
7-2-52

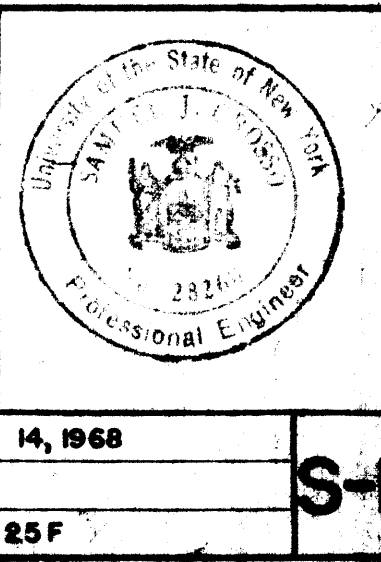
MAWHIGHT, KIRKUSE, FRENCH & STINE  
CONSULTING ARCHITECTS  
442 BROADWAY  
NEW YORK, N. Y. 10018

887772  
11/22/69

O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
SYRACUSE, N. Y.



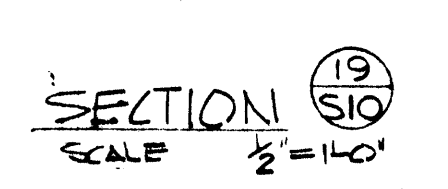
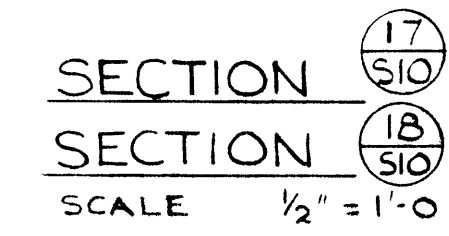
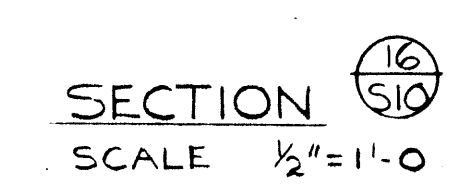
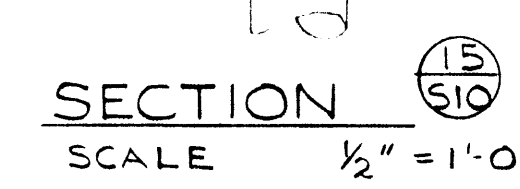
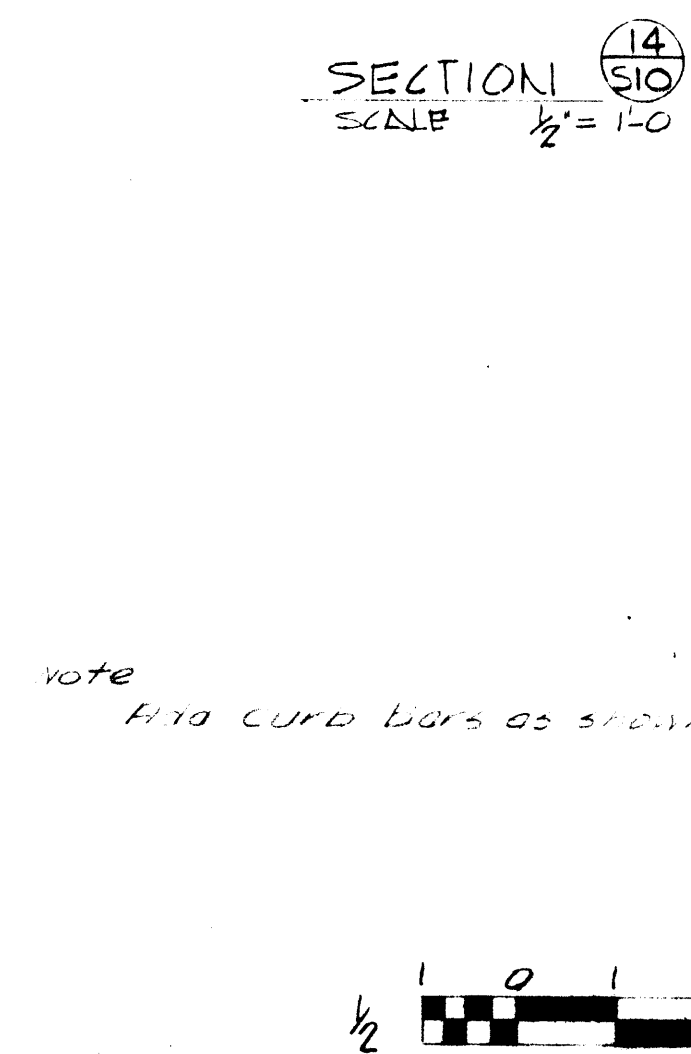
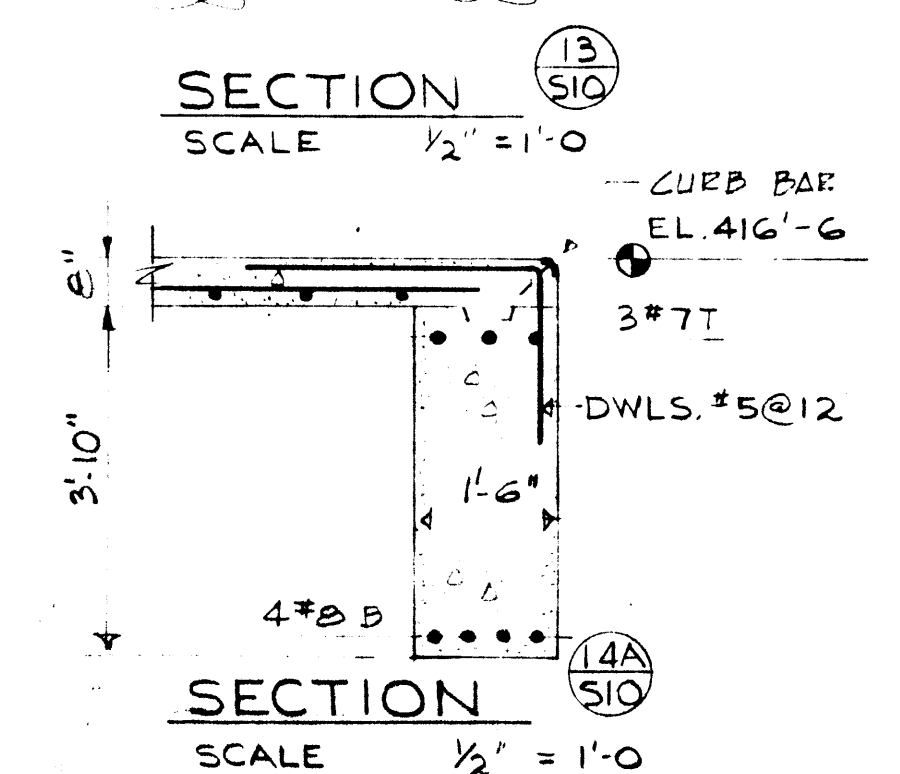
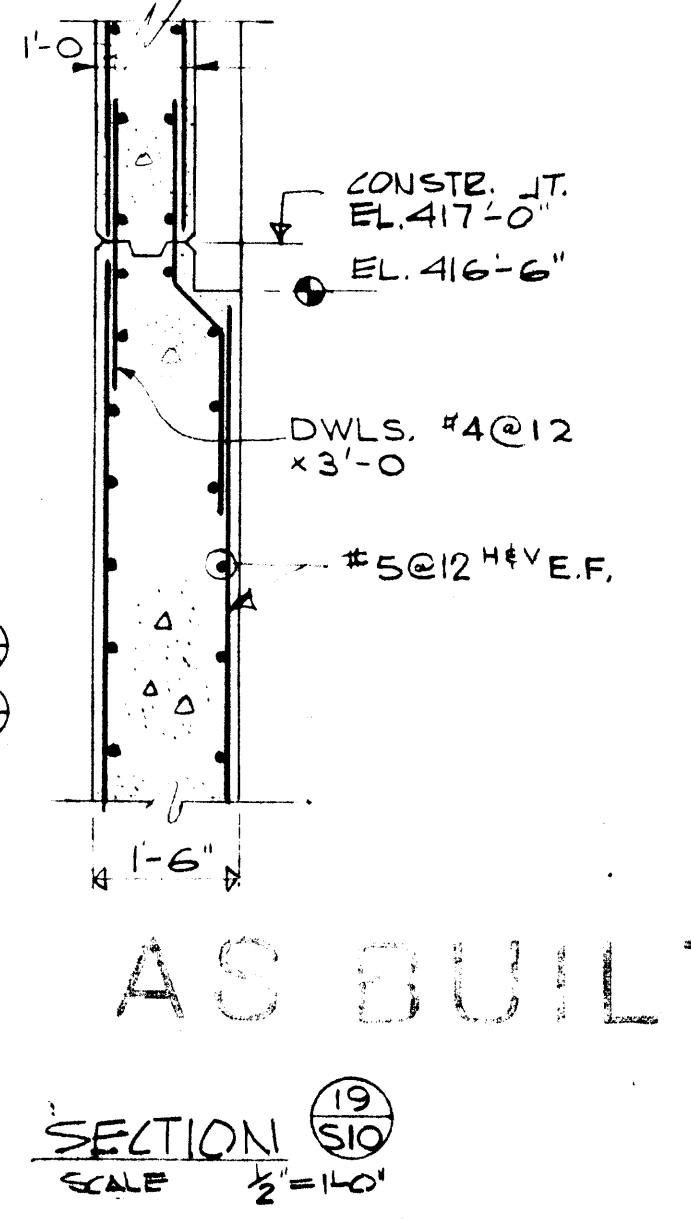
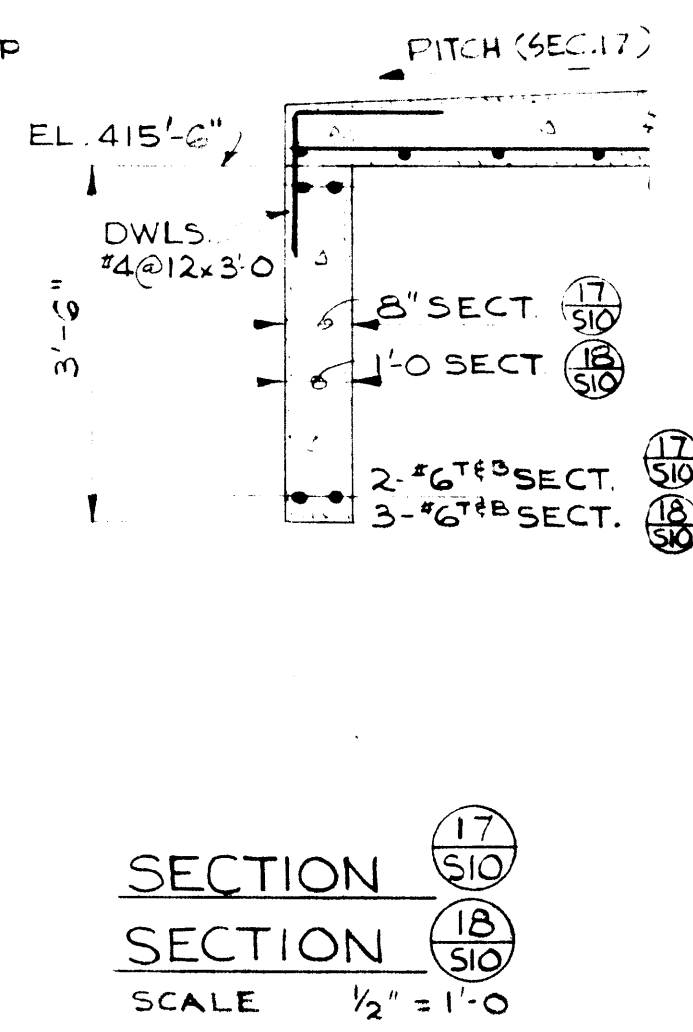
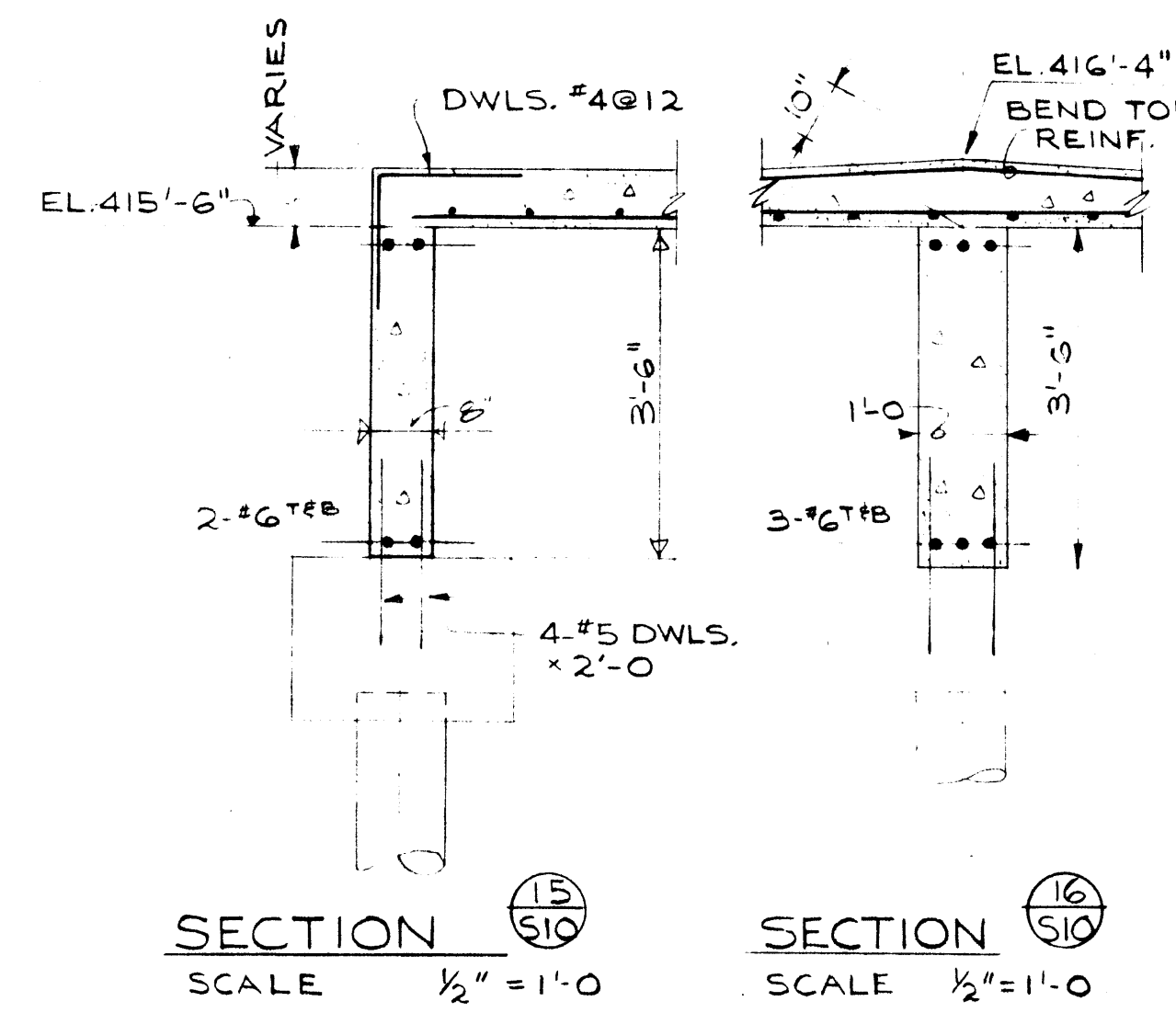
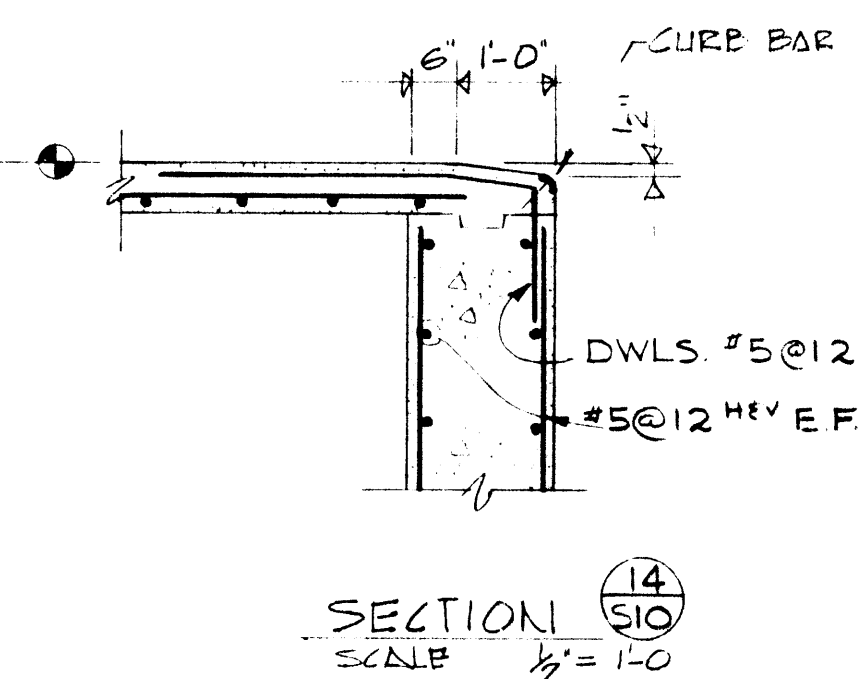
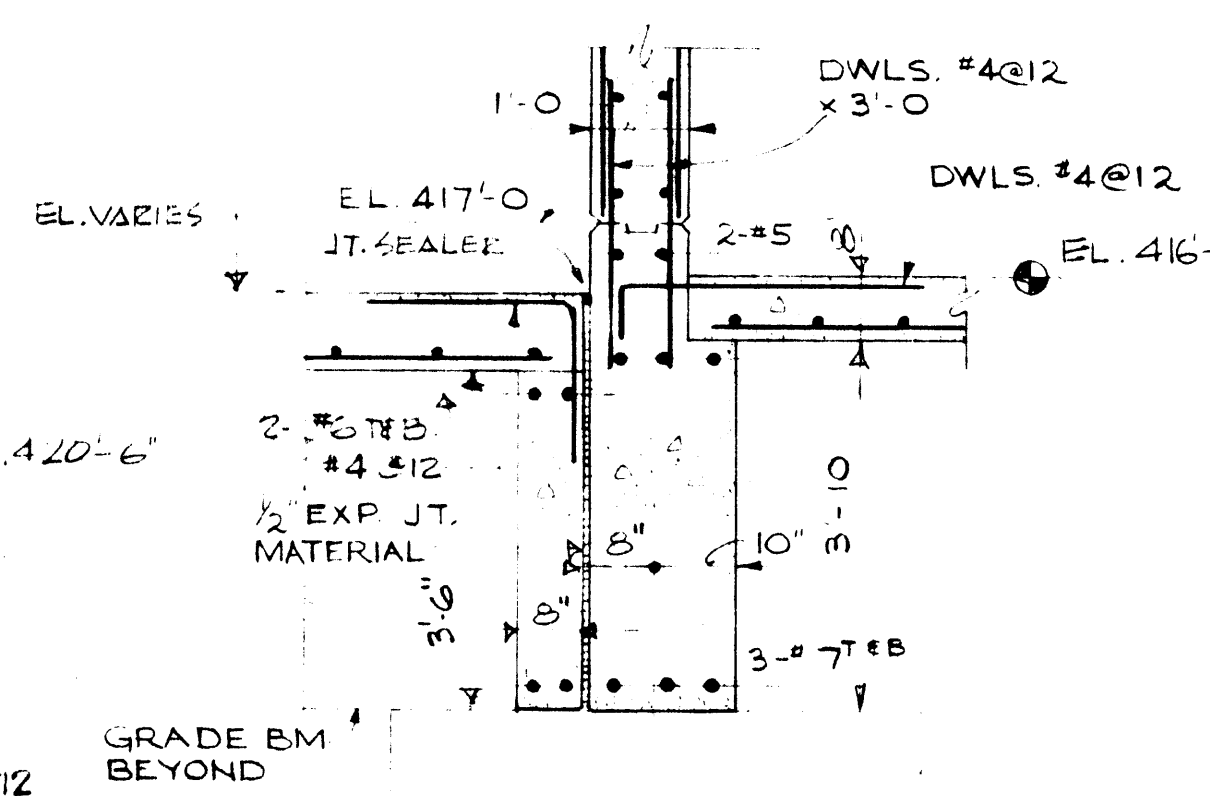
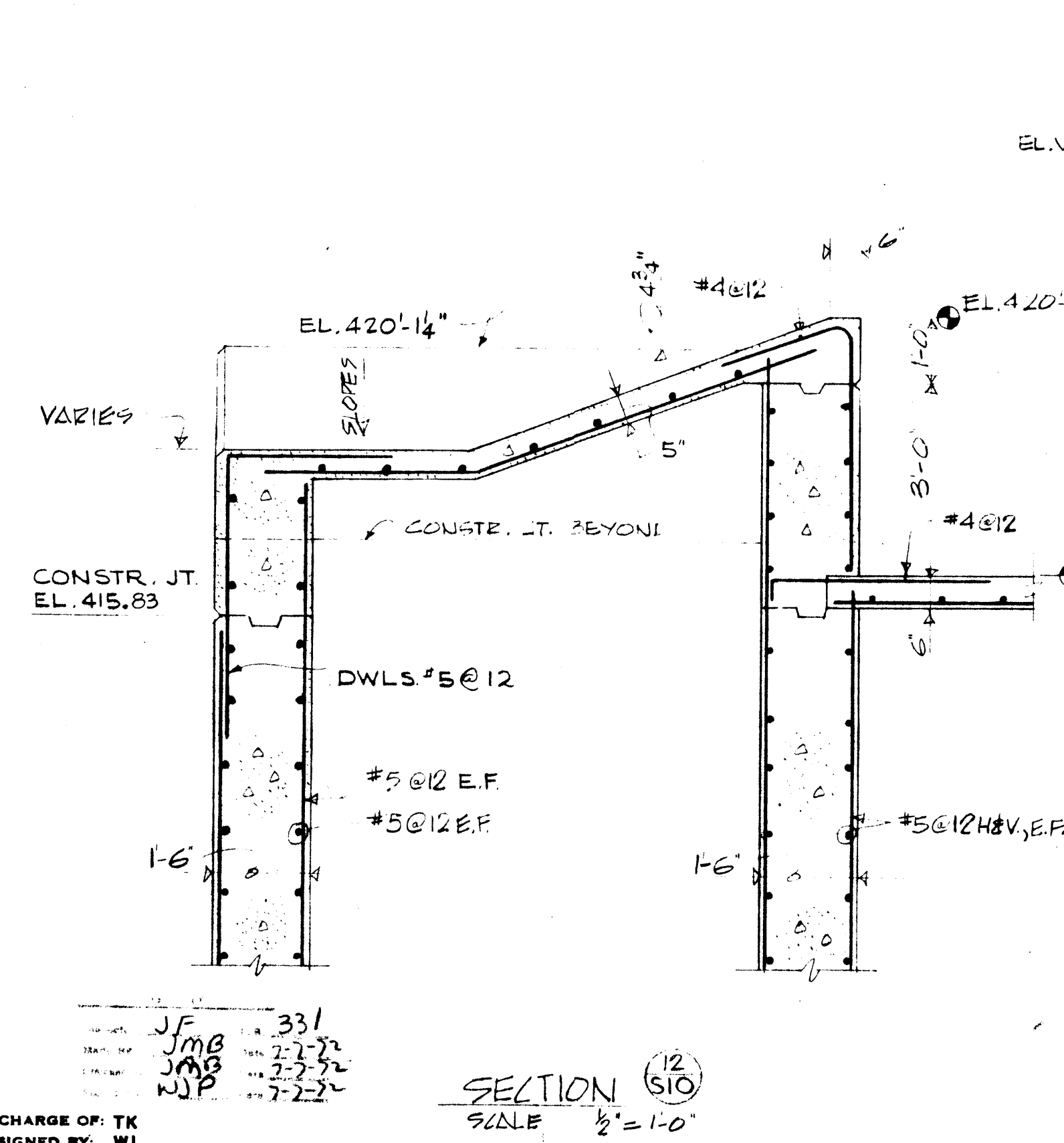
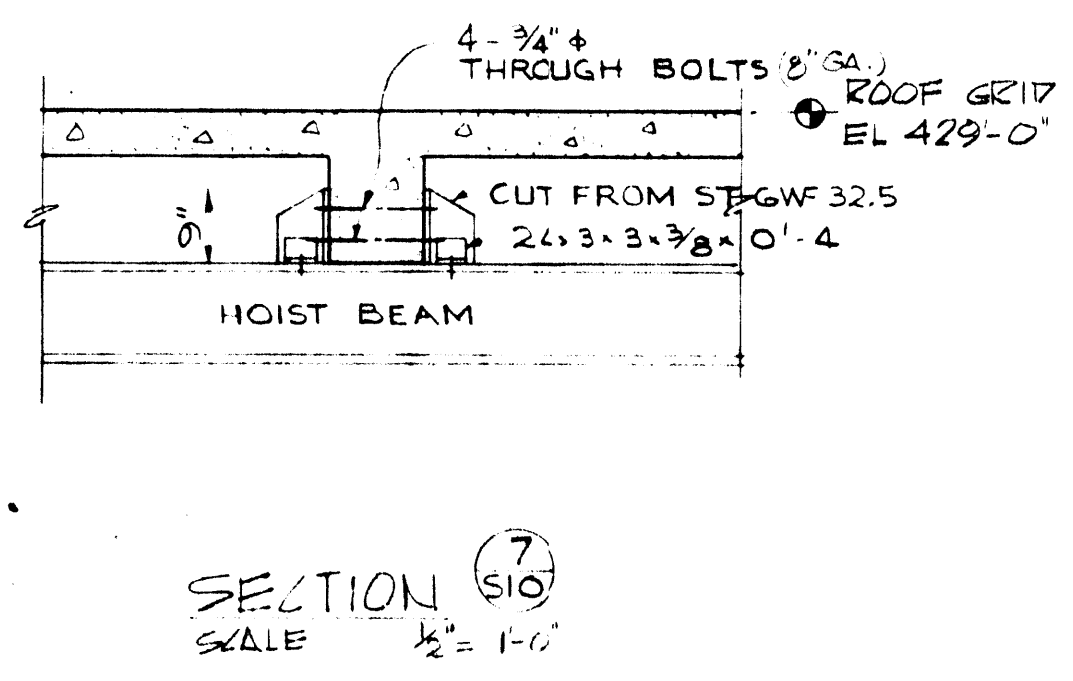
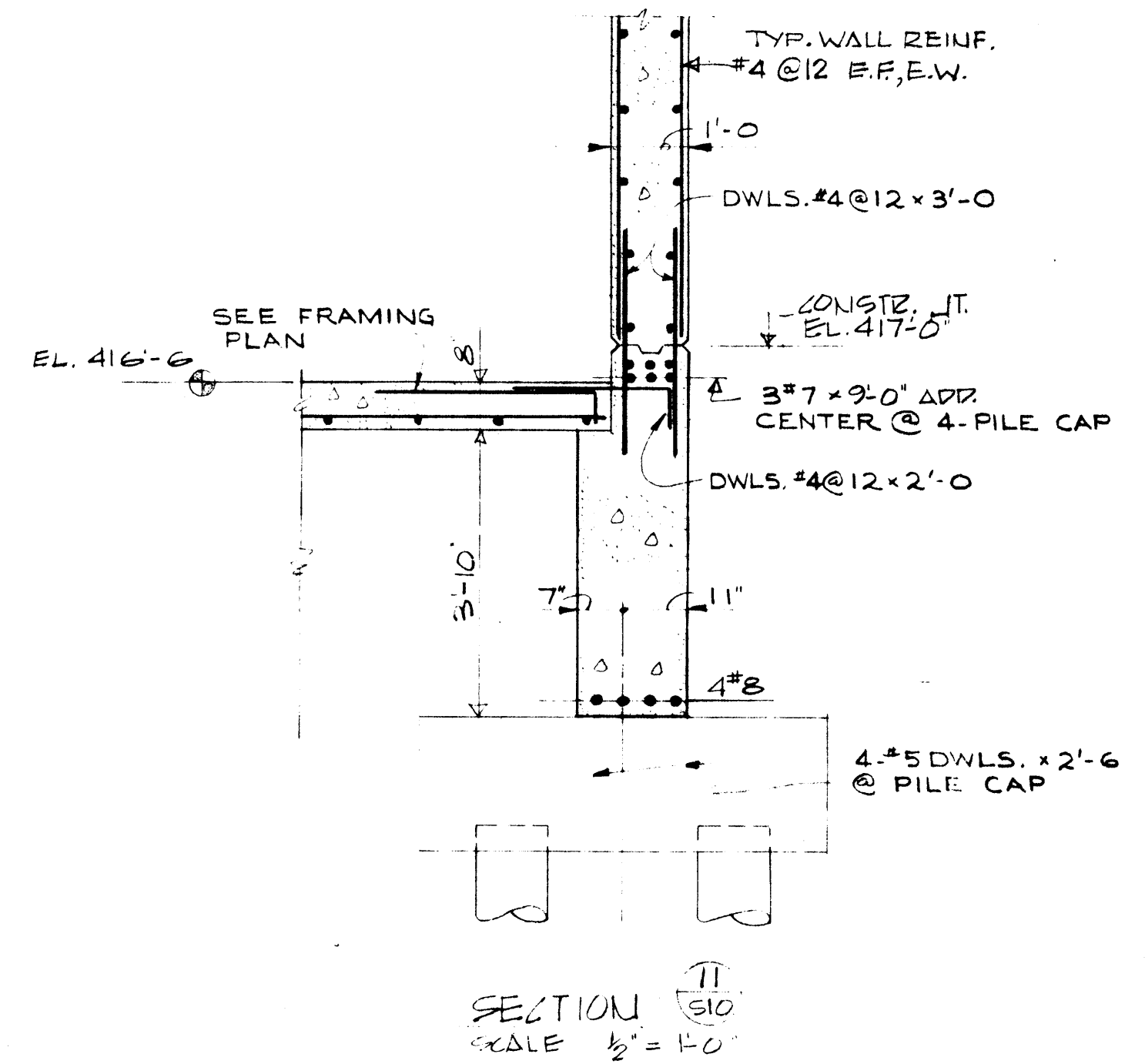
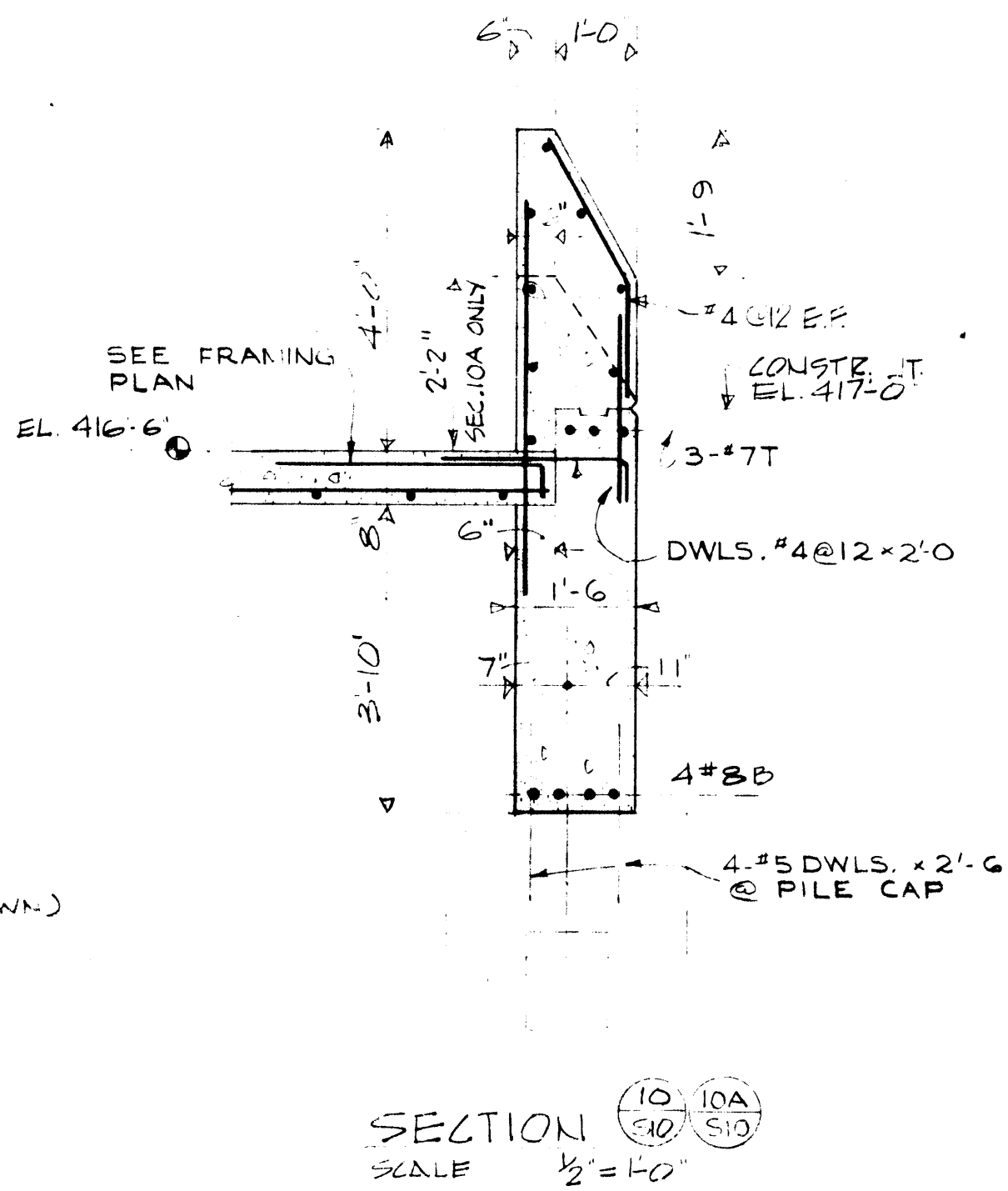
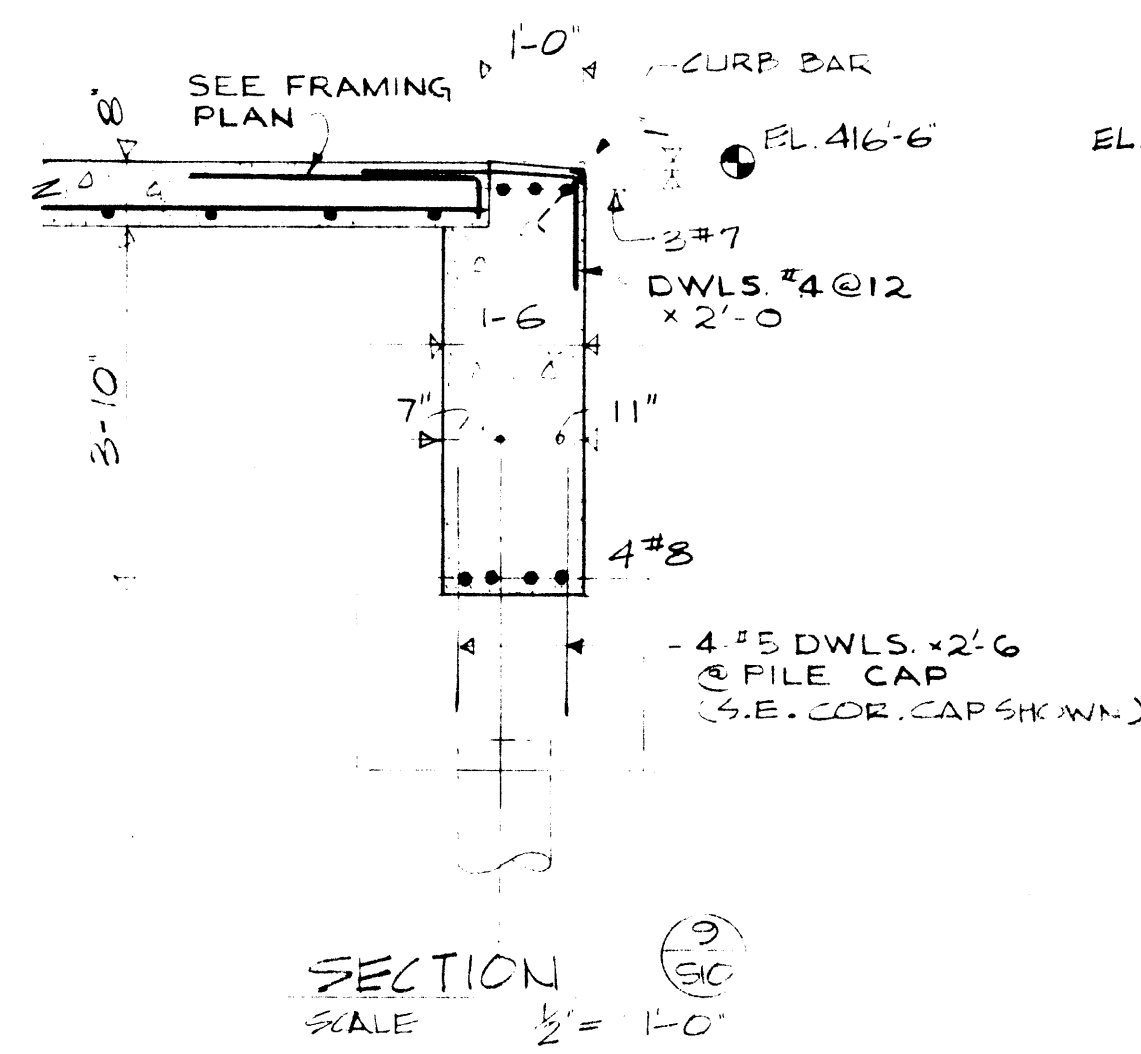
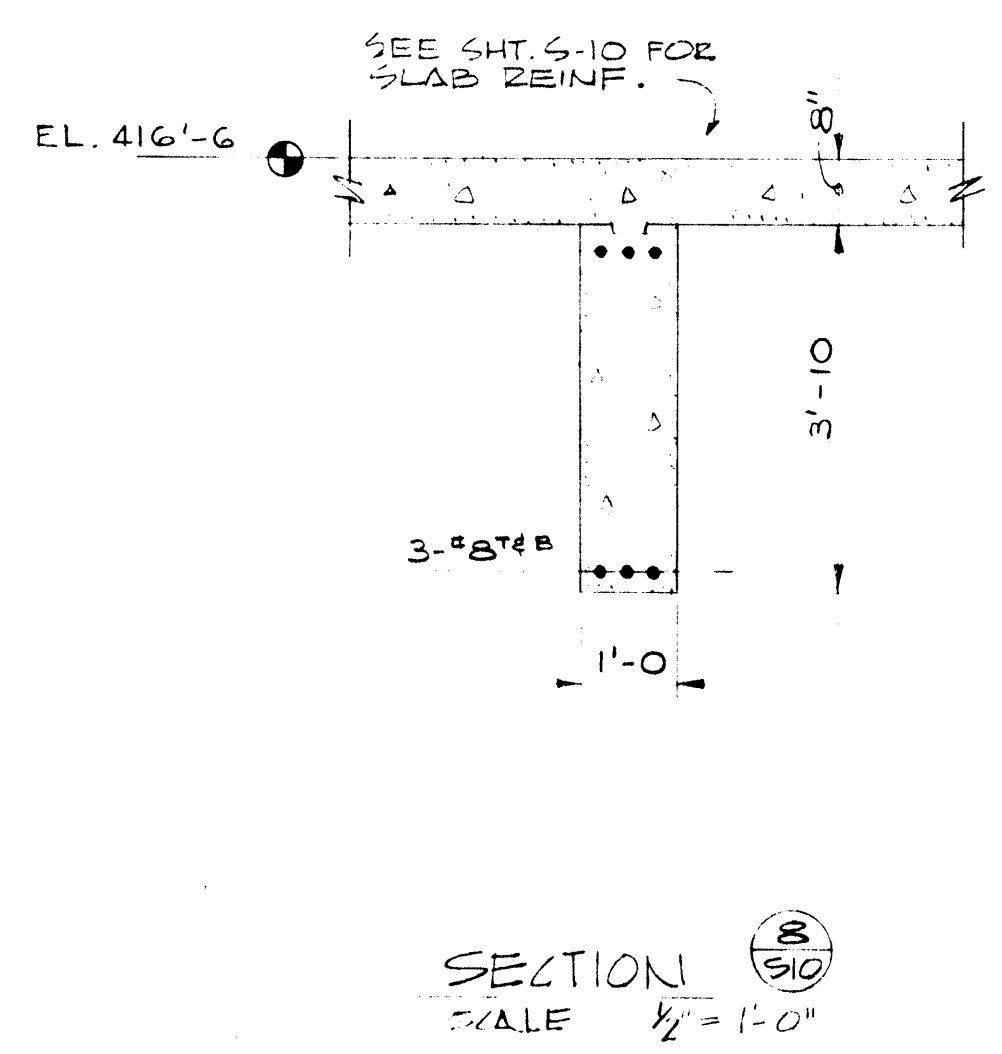
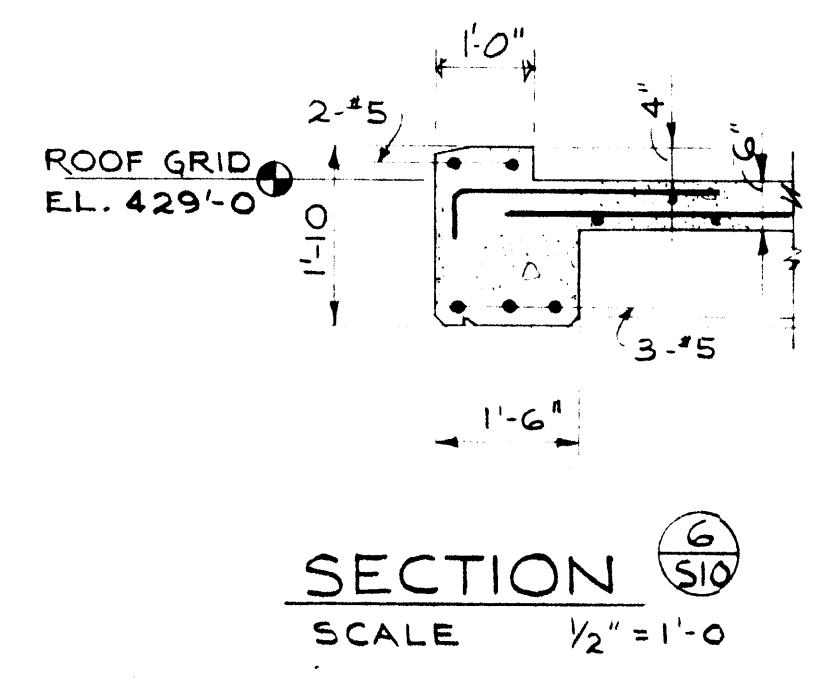
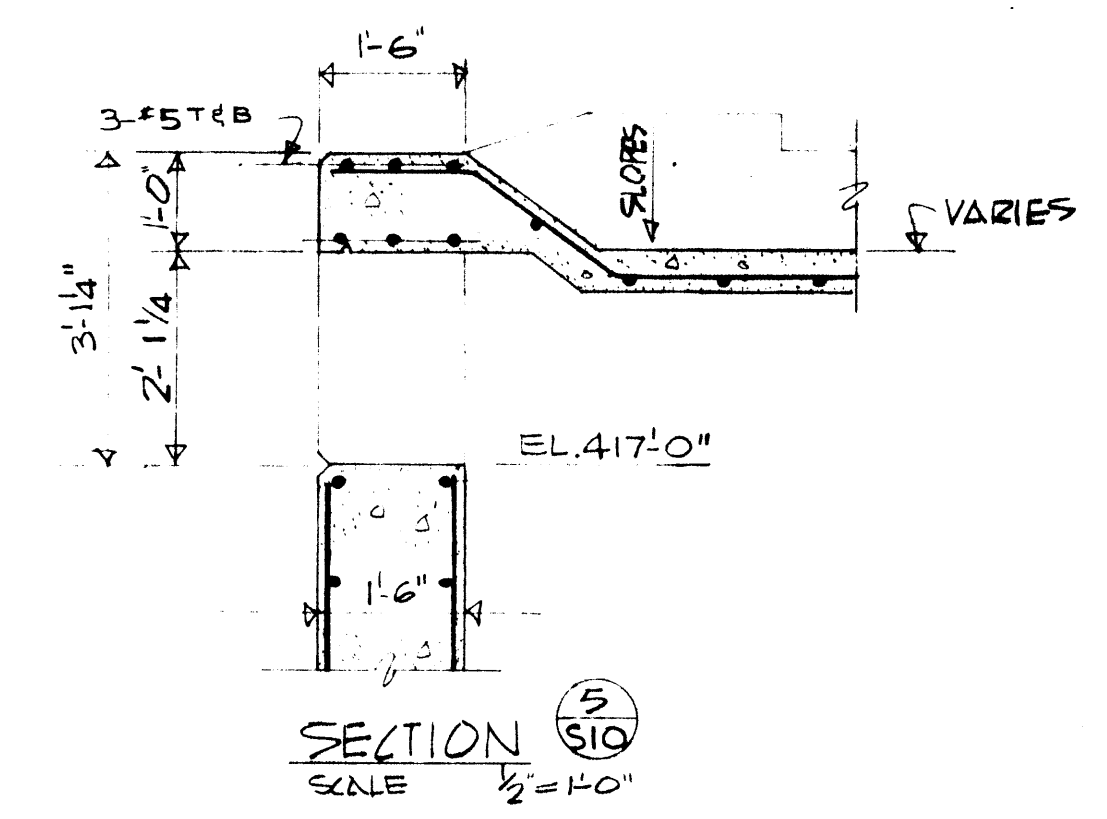
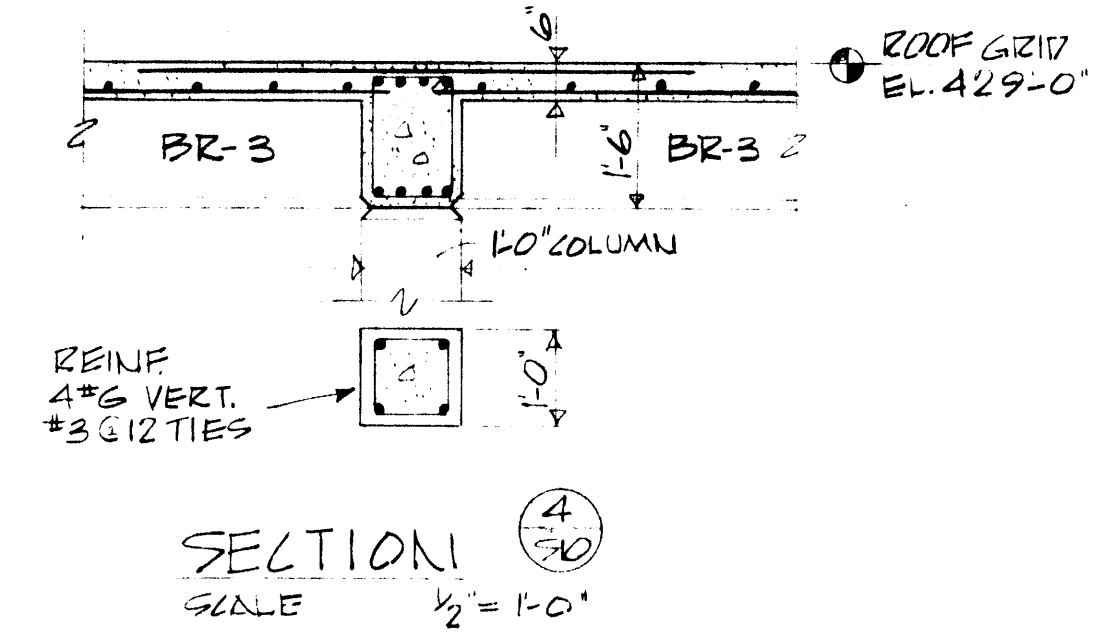
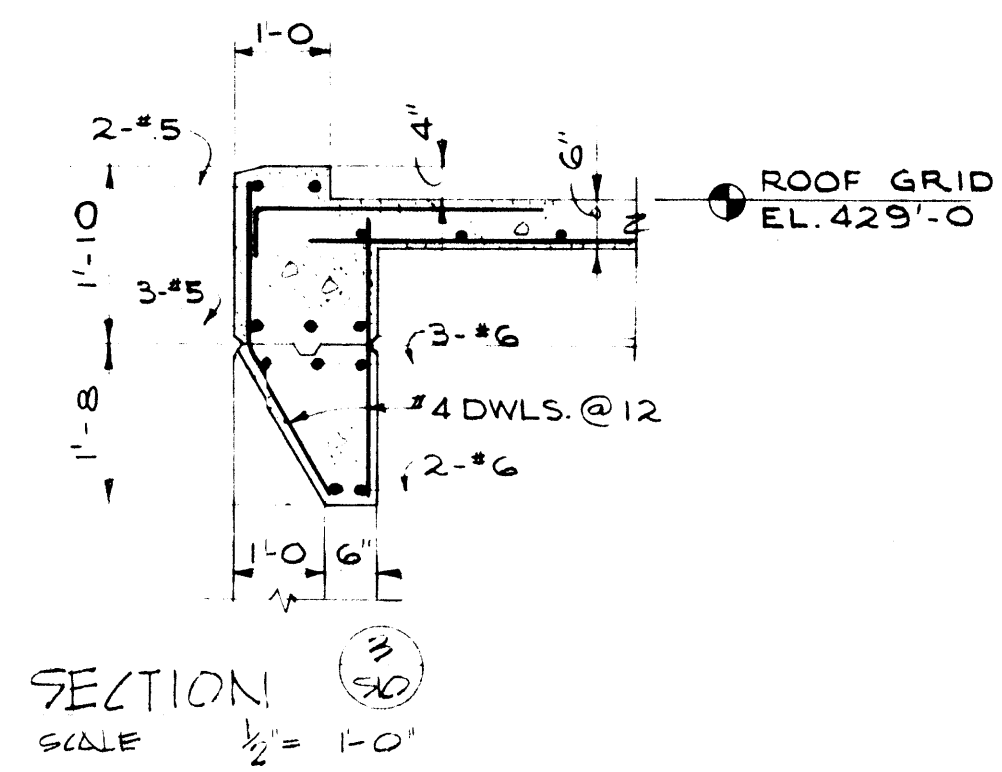
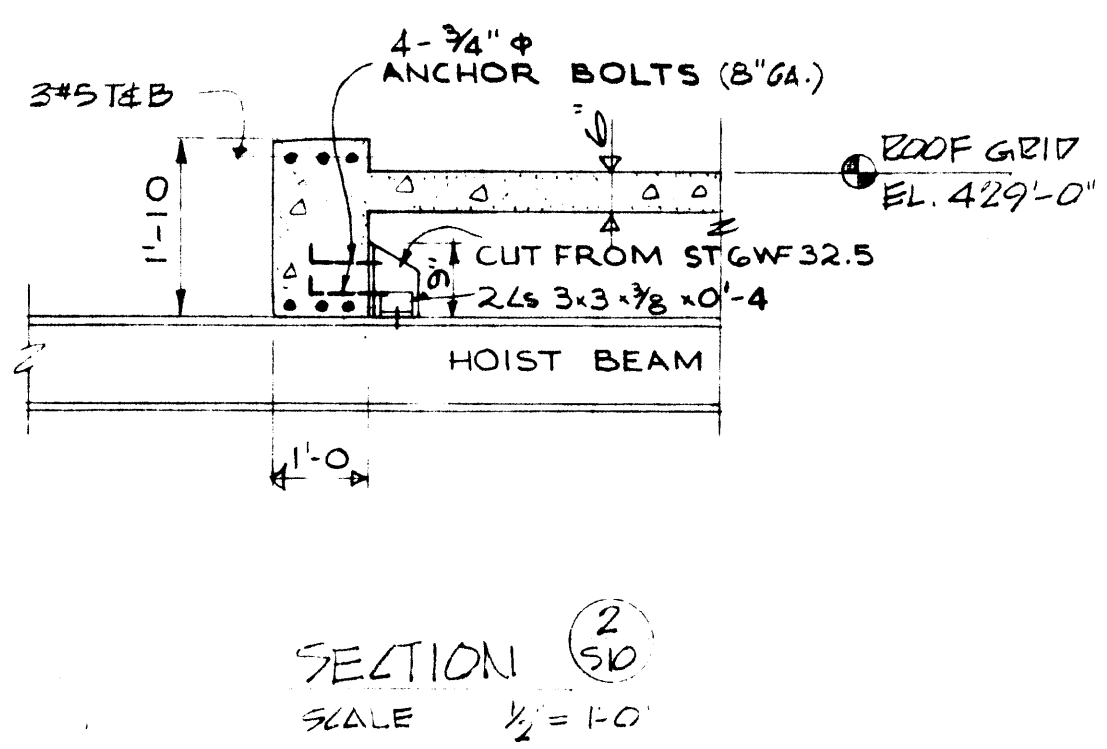
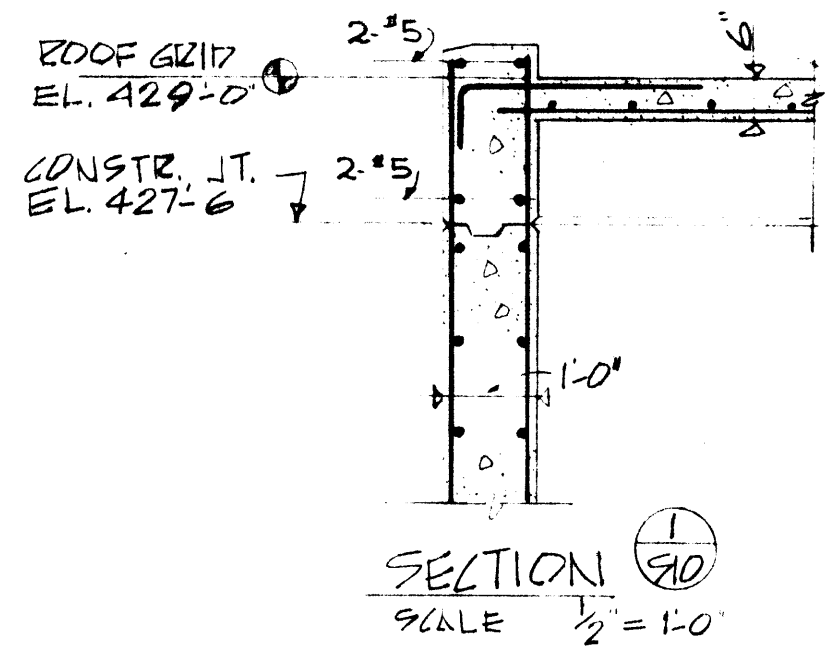
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT  
**SLUDGE PUMP STATION  
FLOOR & ROOF FRAMING**



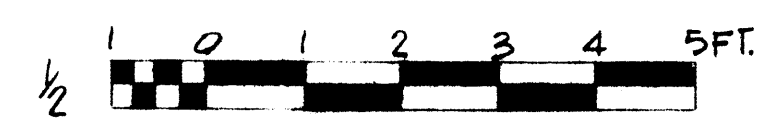
DATE: FEBRUARY 14, 1968  
SCALE: AS NOTED  
FILE NO.: TSM-25F

S-10





note: AND CURB BARS AS SHOWN FOR THESE DRAWINGS

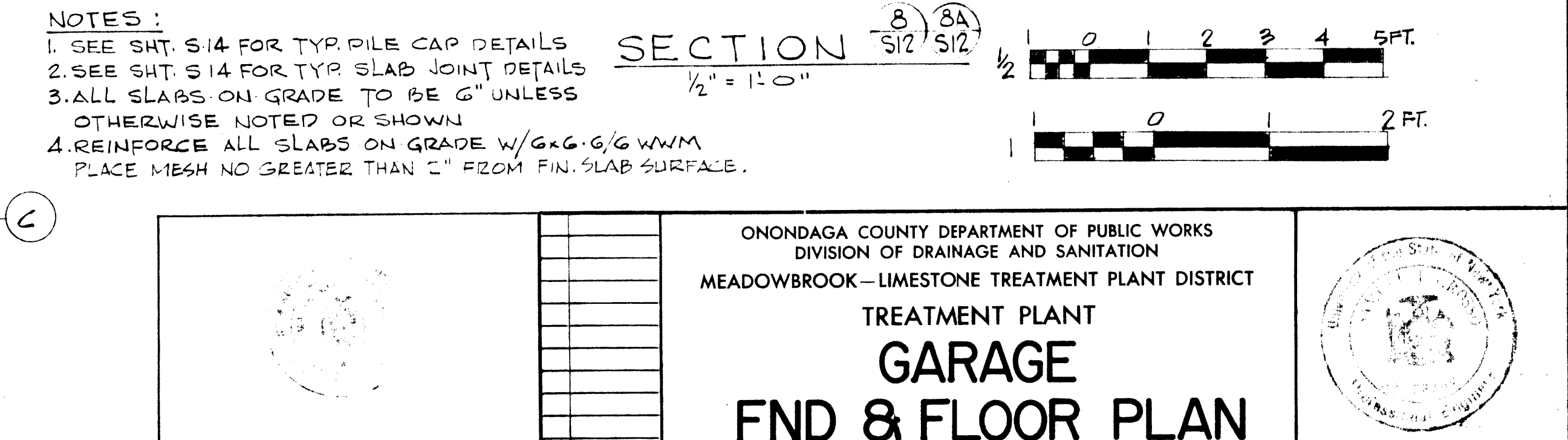
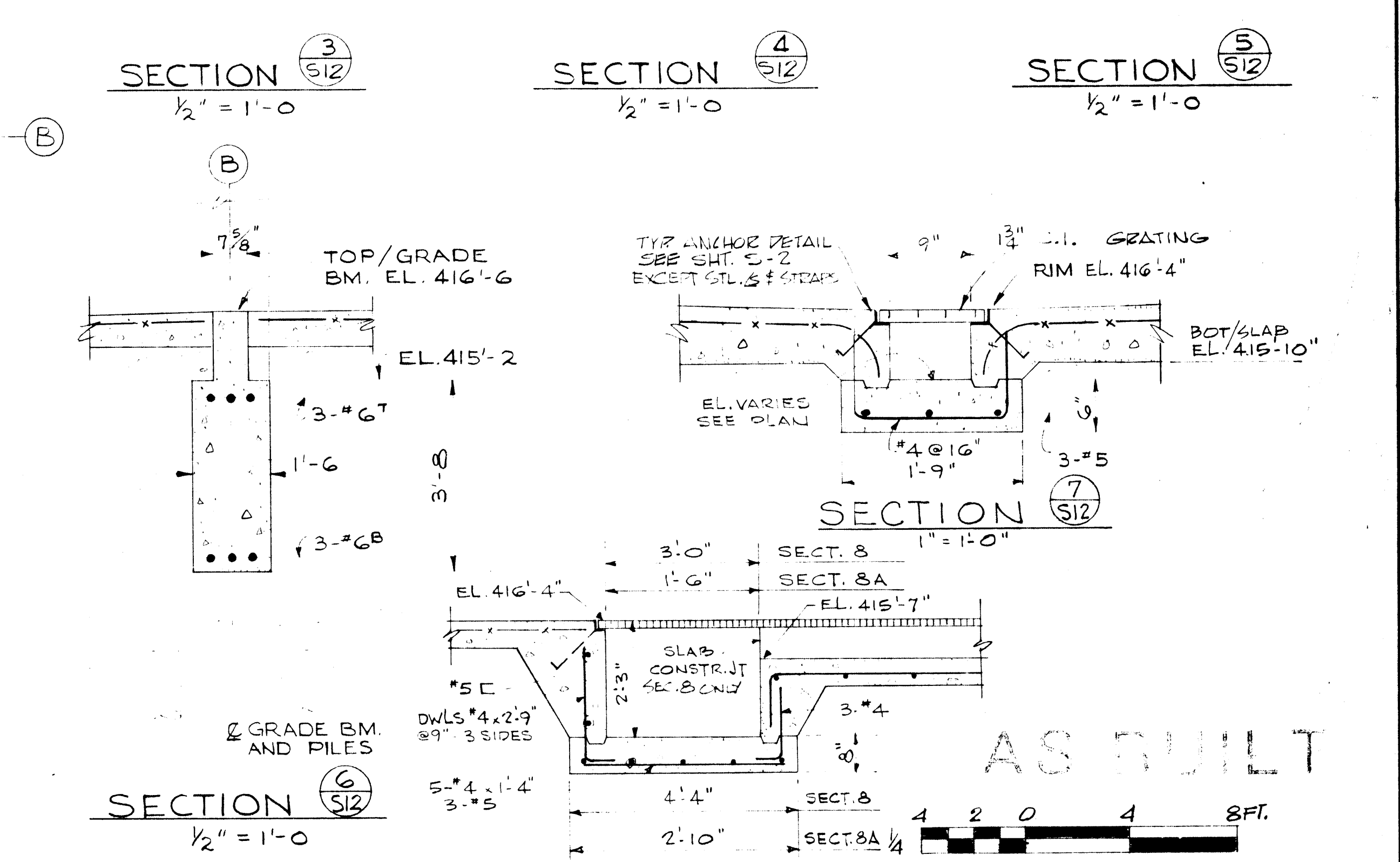
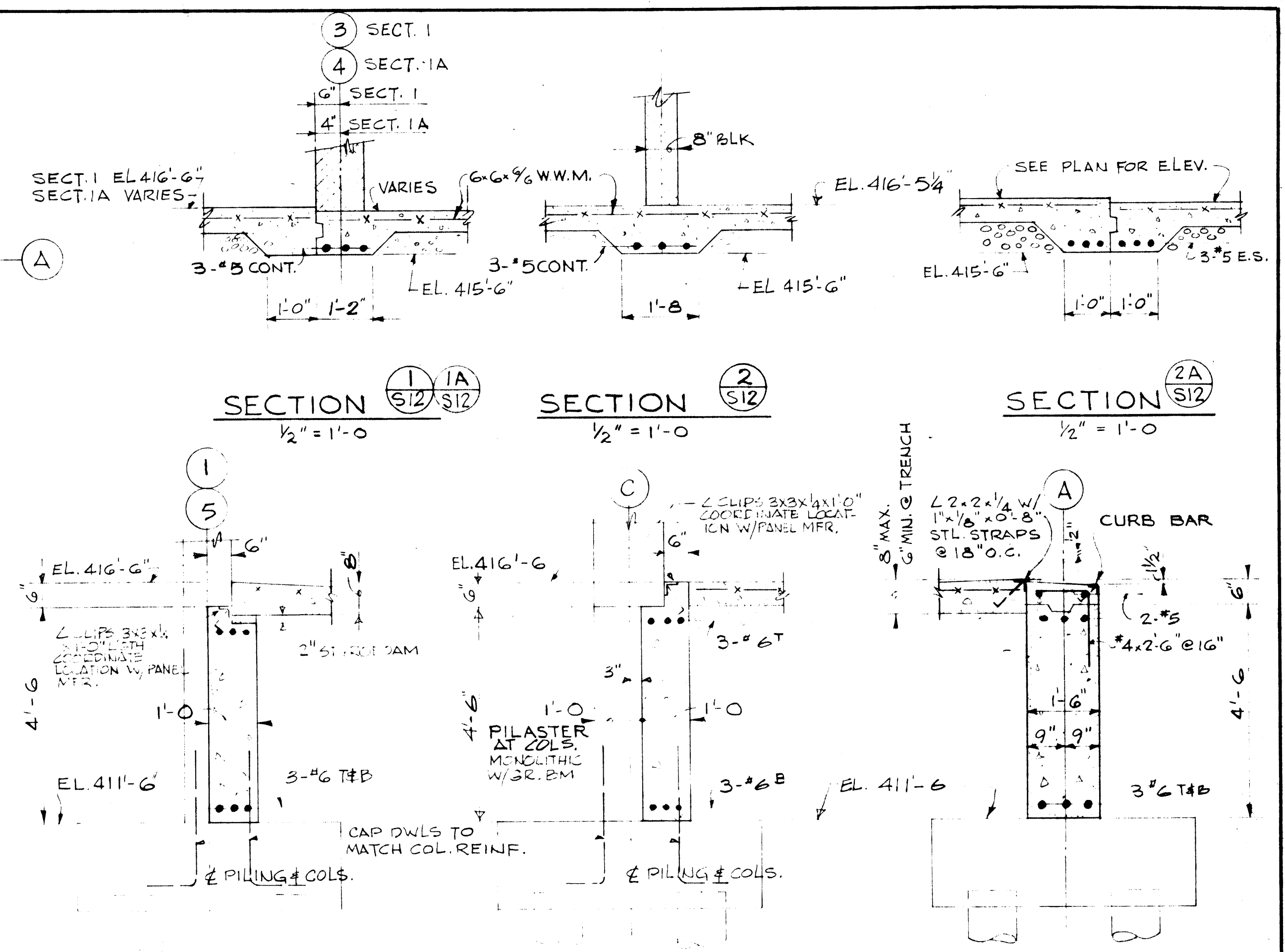
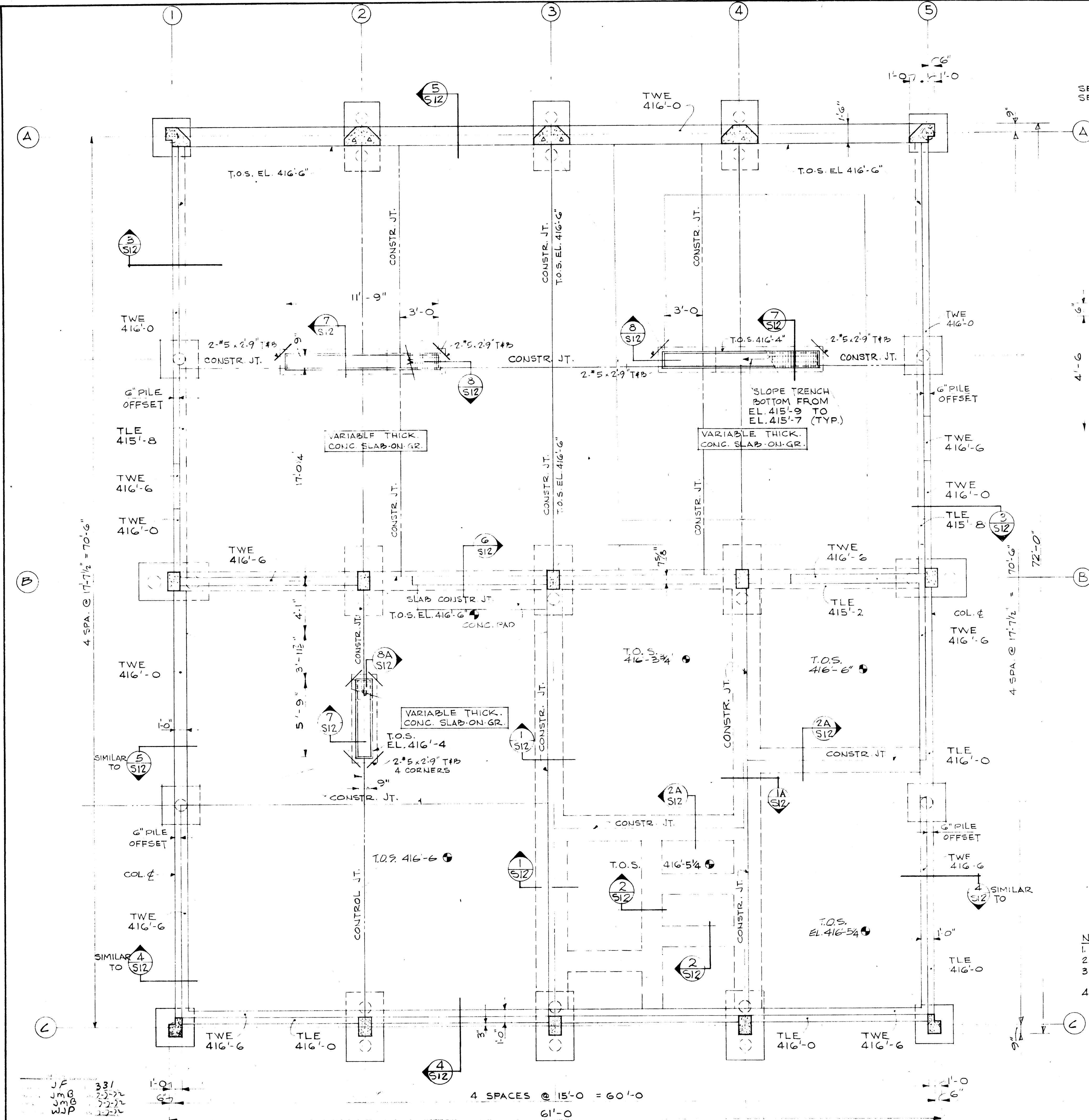


IN CHARGE OF: TK  
 DESIGNED BY: W1  
 MADE BY: RS  
 CHECKED BY: JS

SECTION 12  
 SCALE 1/2" = 1'-0"

SECTION 14  
 SCALE 1/2" = 1'-0"

	ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		
	<b>SLUDGE PUMP STATION          FLOOR &amp; ROOF SECTIONS</b>		
	O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, N.Y.	DATE: FEBRUARY 14, 1968 SCALE: AS NOTED FILE NO.: 15.149-26F	



NOTES:  
 1. SEE SHT. S-14 FOR TYR PILE CAP DETAILS  
 2. SEE SHT. S-14 FOR TYR SLAB JOINT DETAILS  
 3. ALL SLABS ON GRADE TO BE G" UNLESS OTHERWISE NOTED OR SHOWN  
 4. REINFORCE ALL SLABS ON GRADE W/G.G. G/G W/M PLACE MESH NO GREATER THAN 2" FROM FIN. SLAB SURFACE.

JF 331  
 JMB 33-22  
 JMB 33-22  
 WJP 33-22

IN CHARGE OF: TK  
 DESIGNED BY: JS  
 MADE BY: EG  
 CHECKED BY: JS

4 SPACES @ 15'-0" = 60'-0"  
 61'-0"  
 NORTH  
**FOUNDATION & FLOOR PLAN**  
 SCALE 1/4" = 1'-0"

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF DRAINAGE AND SANITATION  
 MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT

**TREATMENT PLANT  
 GARAGE  
 FND & FLOOR PLAN**

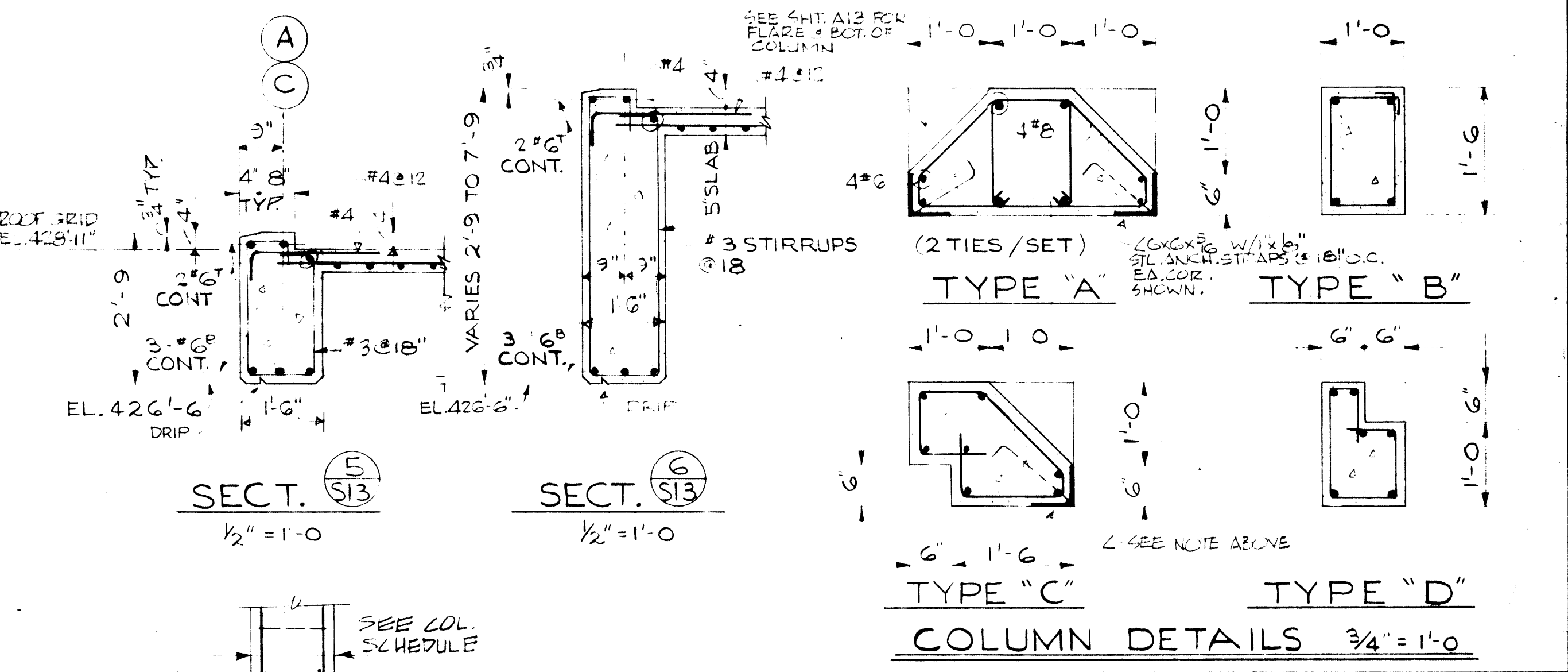
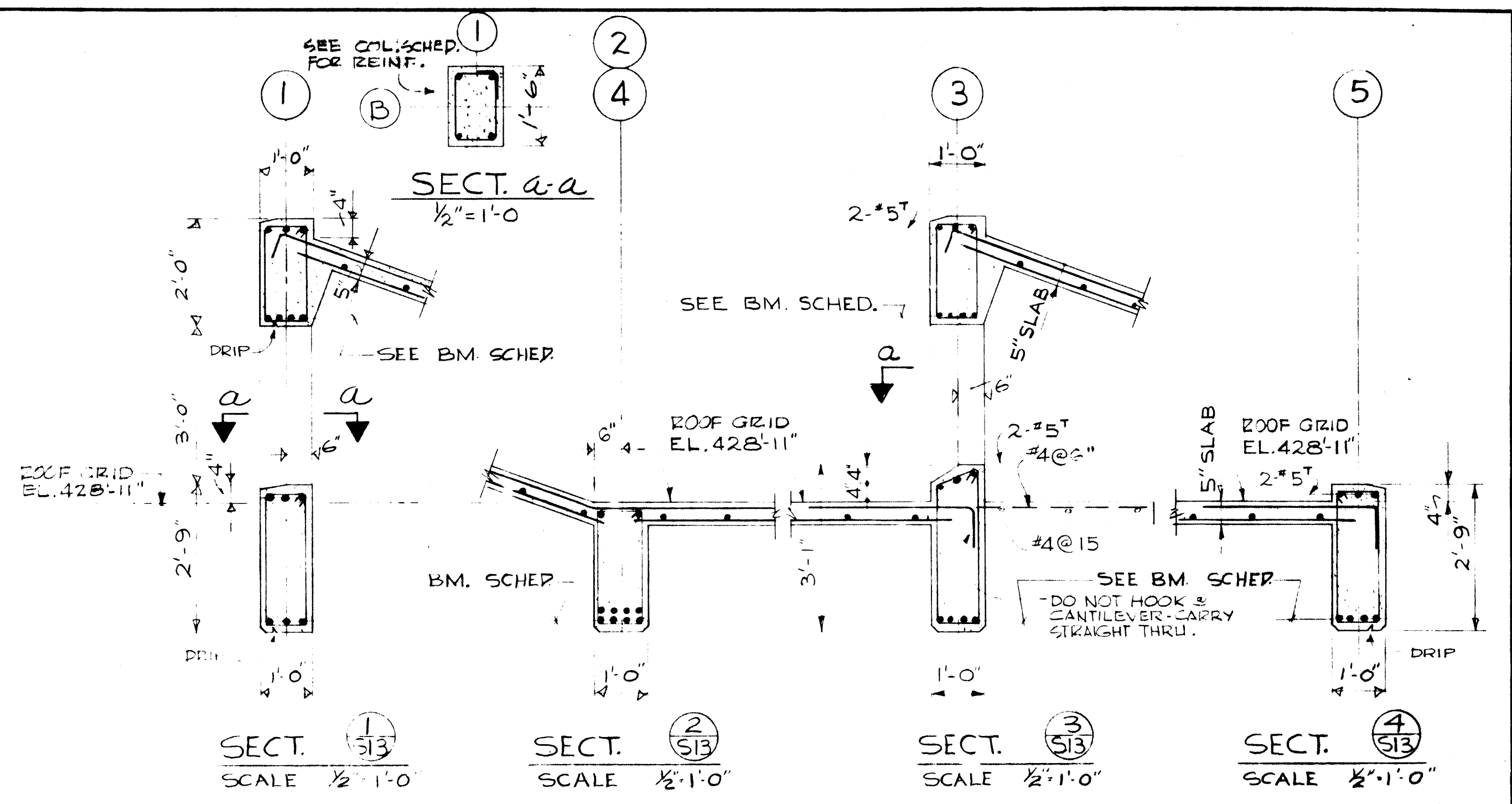
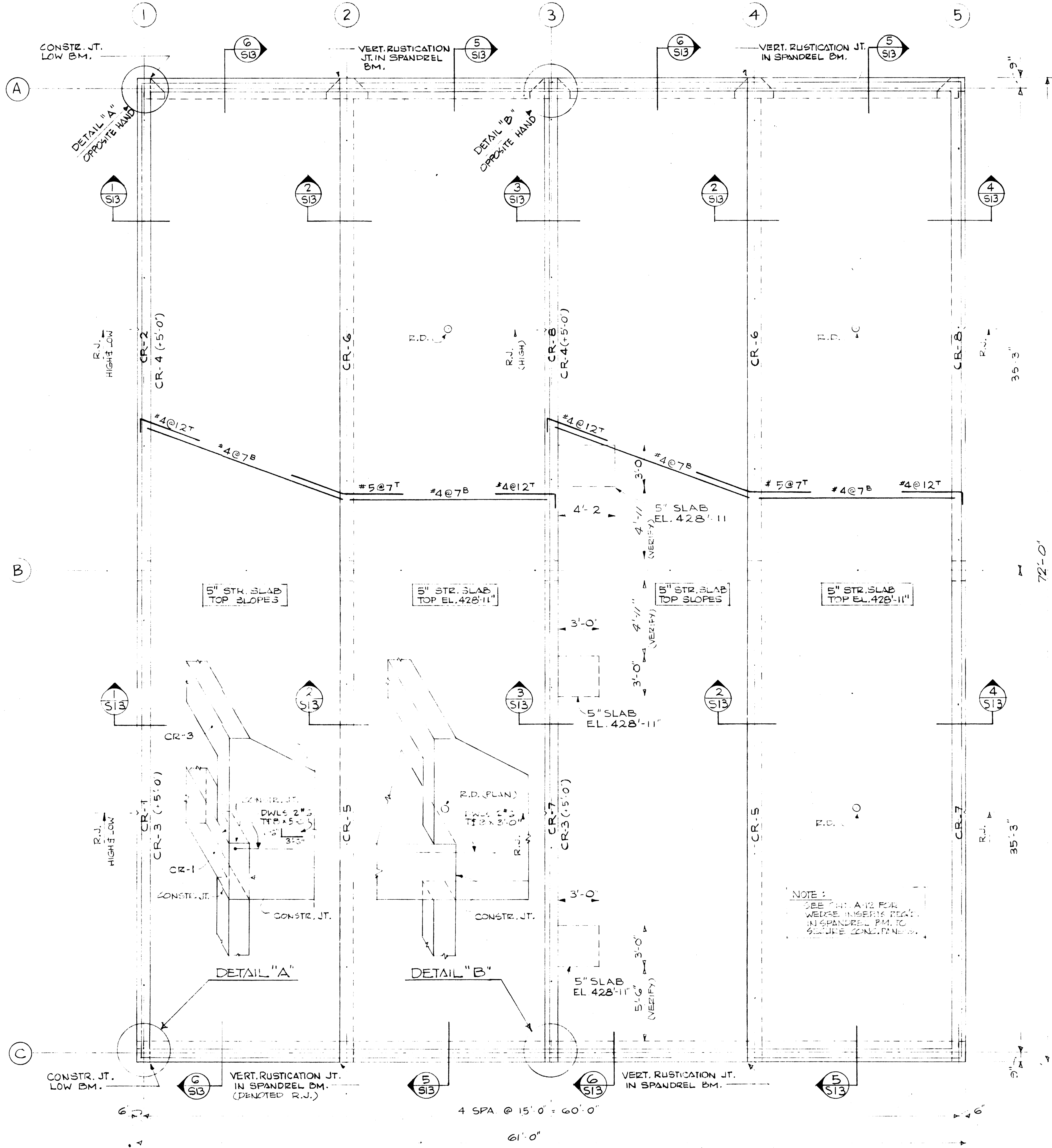
O'BRIEN & GERE  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 574 CANTON ST. SENECA FALLS, N.Y. 13155

DATE: FEBRUARY 14, 1968  
 SCALE: AS NOTED  
 FILE NO.: 15.149-27F

REVISIONS  
 AR 2/2/68  
 15.149-27F

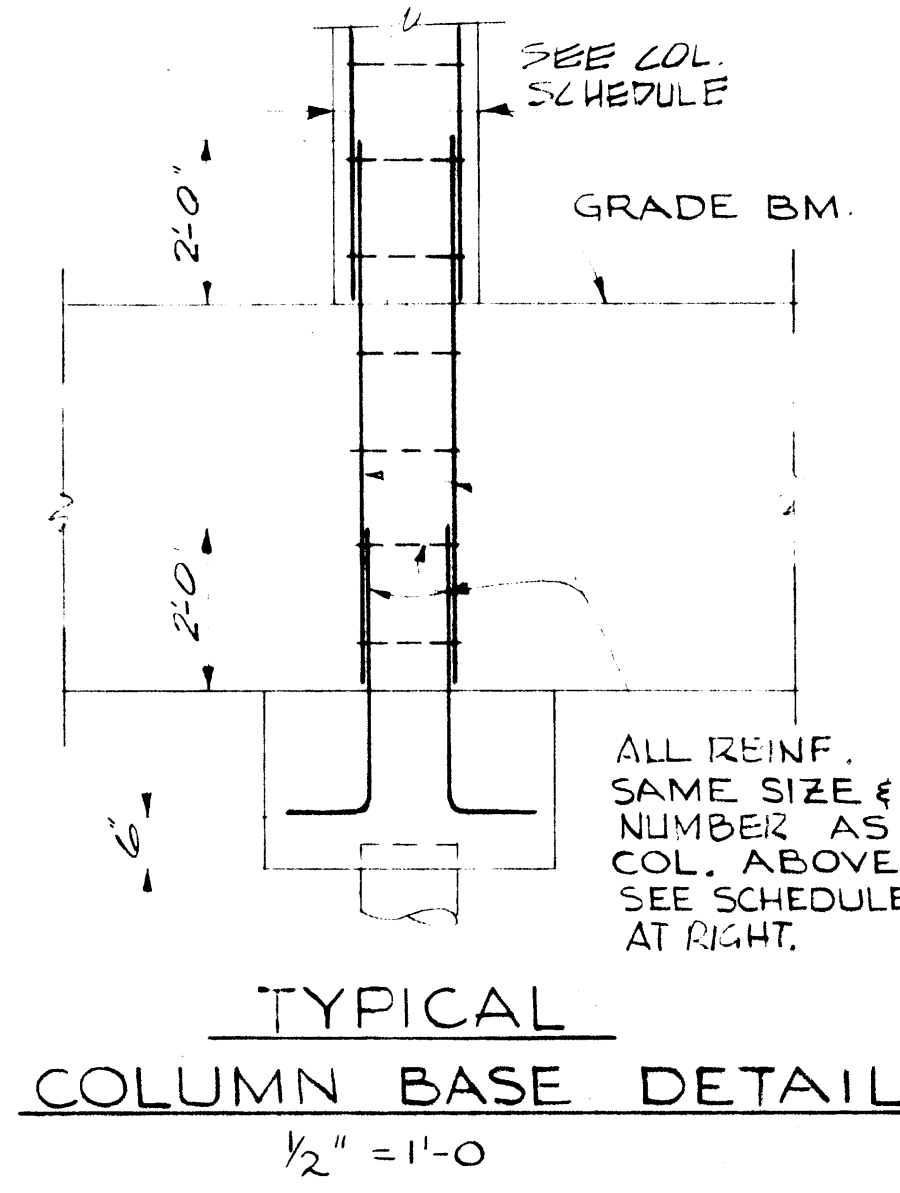
S-12





COLUMN SCHEDULE				
COLUMN MARK	A1 (2) A5	A2 A3 (2) A4	B1 (2) B2 (1) B3 (12) B4 (1) B5 C2 C3 (2) C4	C1 (2) C5
EL. 426'-6"				
TYPE	C	A	B	D
VERT. REINF.	7-#7	4-#8 4-#6	4-#8	6-#6
TIES	#3@14	2/SET #3@16	#3@12	#3@12

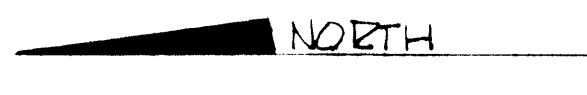
① TOP OF GRADE B.M. AT EL. 416'-6"  
 ② EXTEND COL. REINF. TO EL. 433'-3"



NOTE:  
 SEE SHT. A13 FOR WEDGE INSERTS IN SPANDREL B.M. TO SECURE CONCL. PANELS.

- NOTES:
- CONSTR. JTS. OTHER THAN SHOWN NOT PERMITTED.
  - SEE SHT. S14 FOR BEAM SCHEDULE, TYPICAL REINFORCING DETAILS, & GENERAL NOTES.
  - VERIFY LOCATION & SIZE OF ALL SLAB OPENINGS SHOWN OR OTHERWISE EQD. WITH EQUIPMT. MFR. OR CONTRACTOR.

IN CHARGE OF: TK  
 DESIGNED BY: JS  
 MADE BY: EG  
 CHECKED BY: JS



ROOF FRAMING PLAN  
 SCALE 1/4" = 1'-0"  
 NOTE: TEMP. REINF. #4@15

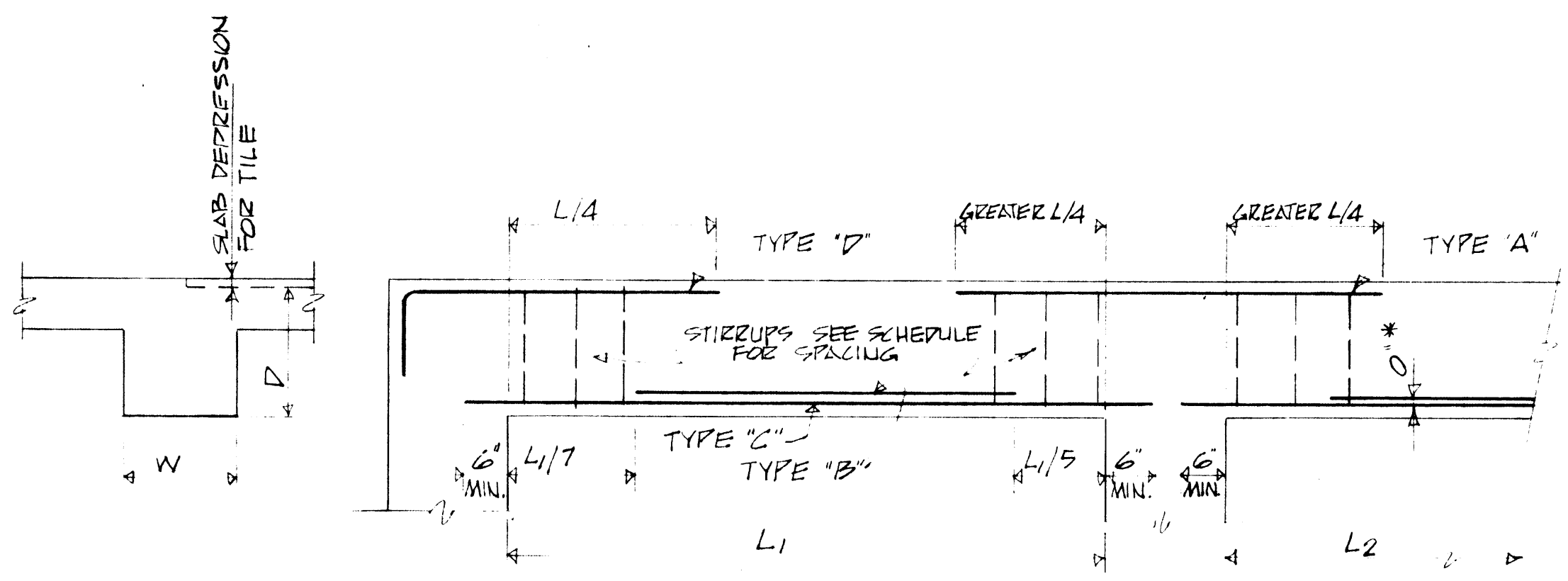
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF DRAINAGE AND SANITATION  
 MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT  
 TREATMENT PLANT  
**GARAGE**  
**ROOF FRAMING PLAN**



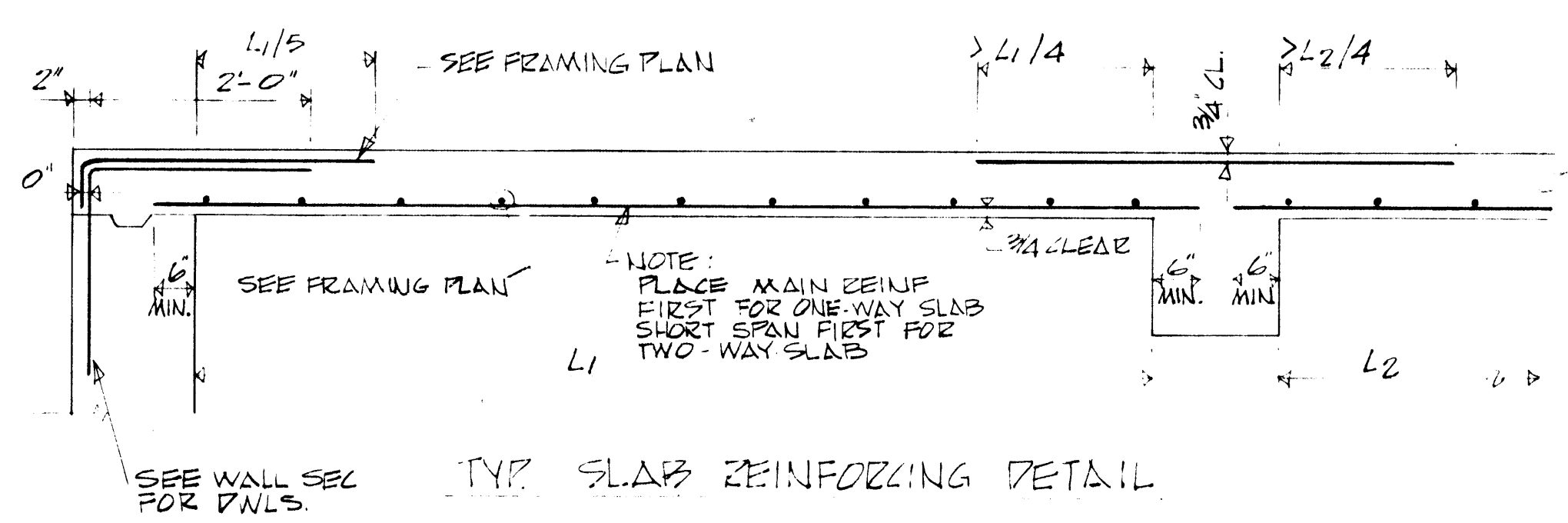
O'BRIEN & GERE  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 SYRACUSE, NEW YORK

DATE: FEBRUARY 14, 1968  
 SCALE: AS NOTED  
 FILE NO.: 15-149-28F

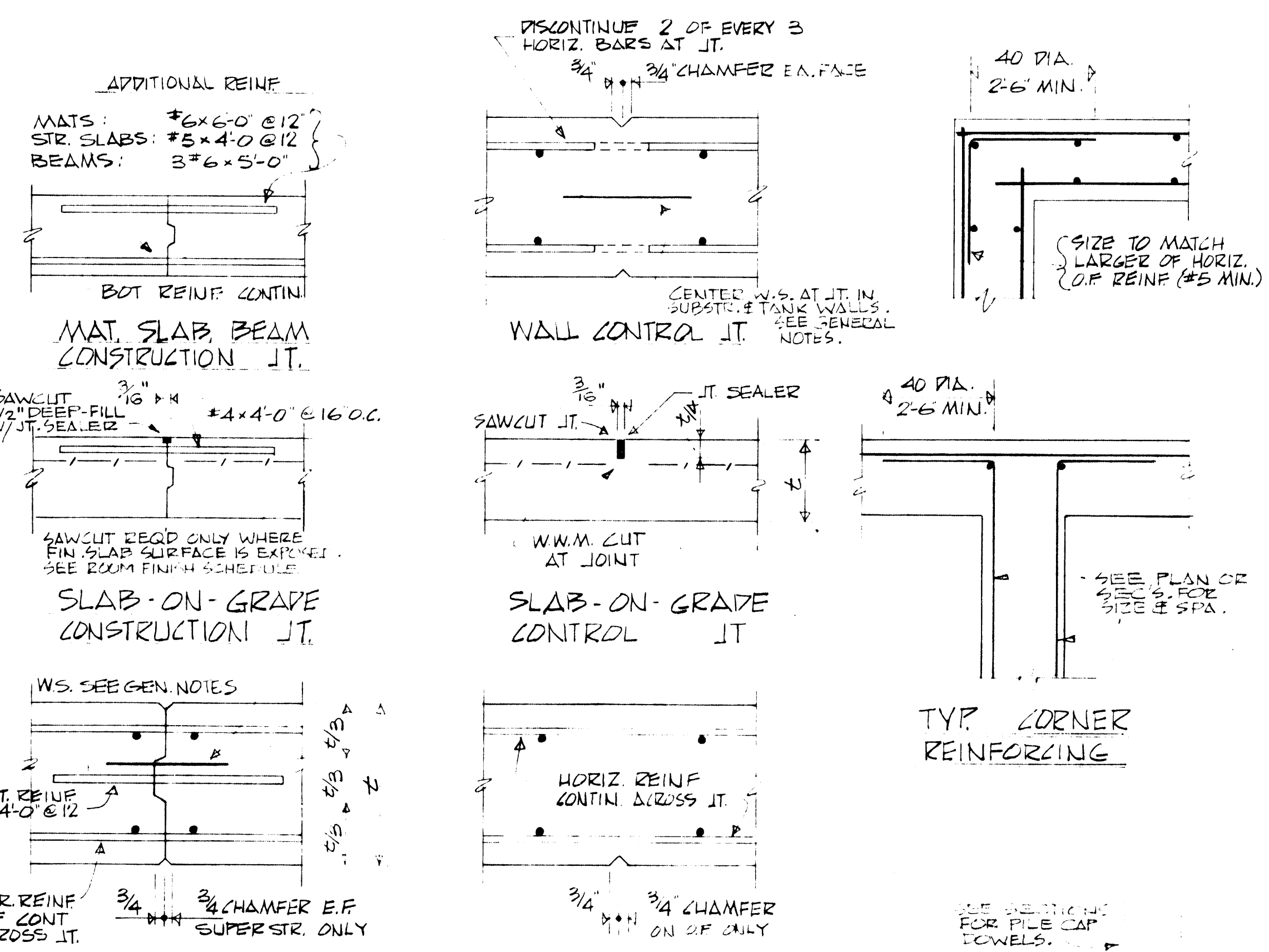
S-13



TYP. BEAM REINFORCING DETAIL \* UNLESS 2 LAYERS REINF. CALLED FOR IN SCHEDULE OR SHOWN IN SECTION.

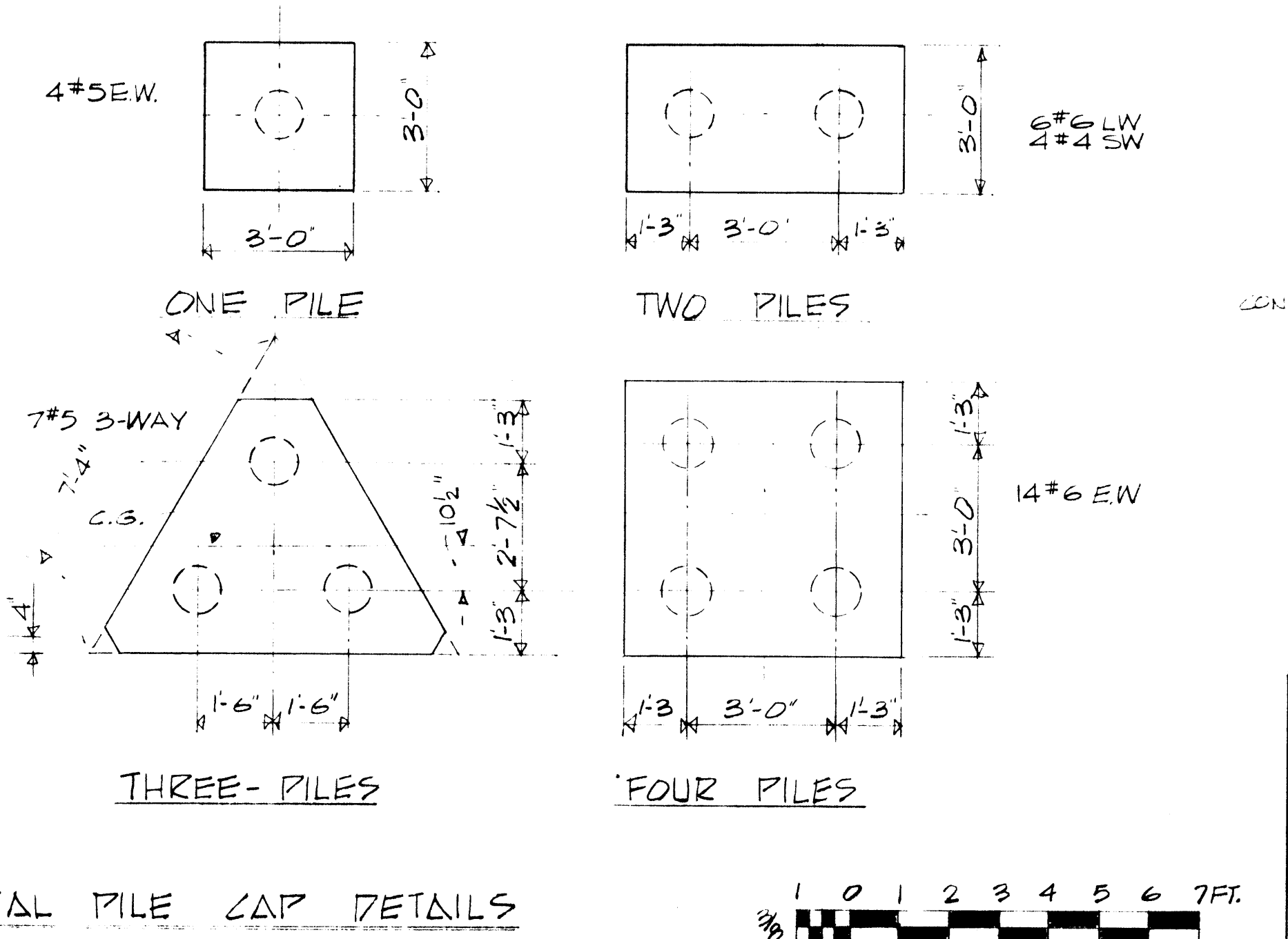


TYP. SLAB REINFORCING DETAIL



JOINT DETAILS (NOT TO SCALE)

CONCRETE BEAM SCHEDULE									
MARK	SIZE		REINFORCING			STIRRUPS		REMARKS	
	W	D	A	B	C	D	SIZE		SPACING EA. END
AF-1	18	24		3#8	3#8	3#6	#3	16", 120", 4E8"	
AF-2	18	24	6#9	3#8	3#8	3#6	#3	16", 60", 4E8"	
AF-3	18	24		3#7	3#7	3#6	#3	16", 80", 3E10	
AF-4	18	24	6#9	3#9	3#9	3#6	#4	16", 80", 2E9, 2E14	
AF-5	12	24		4#9	4#9	3#7	#4	16", 80", 2E9, 2E14	D&C BARS IN 2-LAYERS
AF-6	12	24		2#9	3#9	3#7	#3	16", 80", 3E10	D&C BARS IN 2-LAYERS
AF-7	12	18			3#6	3#6	#3	16", 16", 16"12	
AF-8	12	24		2#7	2#8	3#6	#3	16", 16", 8E12	
AF-9	30	24		2#9	9#9	3#9	#3	16", 80", 3E8, 2E12	D&C BARS IN 2-LAYERS D BARS CONTIN.
AF-10	8	24			2#7	2#7			D BARS CONTIN.
AF-1A	12	18	3#7		3#6	3#6	#3	16", 16", 16"12	
AR-1	18	42		4#6	3#6	#3		16", 012 FULL LENGTH	D BARS IN 2-LAYERS D BARS CONTIN.
AR-2	12	18			3#6	3#6	#3	16"	
AR-3	12	18		2#6	2#6	3#6	#3	16", 3E18	
AR-4	12	18	3#7	2#6	2#6	3#6	#3	16", 3E18	
AR-5	12	26		4#8	4#8	3#9	#3	16" FULL LENGTH	D BARS CONTIN.
AR-6	18	12		3#5	3#5	#3		16" FULL LENGTH	D BARS CONTIN.
AR-7	12	34			3#6	3#6	#3	16", 012 FULL LENGTH	D BARS CONTIN.
AR-8	12	34		2#8	2#8	3#6	#3	16", 012 FULL LENGTH	
AR-9	12	16			3#6	3#6	#3	16"12" FULL LENGTH	D BARS CONTIN.
AR-10	12	18			3#6	3#6	#4	16"12" FULL LENGTH	
AR-11	12	24		2#8	2#8	3#6	#3	16", 3E18	
AR-12	12	18			3#6	3#6	#4	16"12" FULL LENGTH	
AR-13	12	30	3#8	3#8	3#8	2#6	#4	16", 40", 0.2 TO E	D&C BARS IN 2-LAYERS
AR-14	12	22			3#8	3#6	#3	16"12" FULL LENGTH	D BARS CONTIN.
AR-15	24	15		3#8	4#8	4#9	#4	16"12"	D BARS CONTIN.
BR-1	12	18		1#6	2#6	3#6	#3	16", 16"12"	
BR-2	12	18	3#7	1#6	2#6	3#6	#3	16", 4E12"	
BR-3	16	24		3#8	3#8	3#6	#3	16", 4E18"	
BR-4	16	24		4#8	4#9	3#9	#3	16", 4E12"	
BR-5	16	24		3#6	4#8	3#7	#3	16", 4E18"	
CR-1	12	33		1#6	2#6	3#6	#3	16", 16"12"	
CR-2	12	33	3#6	1#6	2#6	3#6	#3	16", 16"12"	
CR-3	12	24		2#7	4#7	4#7	#3	16"10"	
CR-4	12	24	6#8	2#7	4#7	4#7	#3	16"10"	
CR-5	12	29		4#7	4#8	5#8	#3	16", 40", 2E10, 16"12"	
CR-6	12	29	8#8	4#7	4#8	5#8	#3	16", 40", 2E10, 16"12"	
CR-7	12	37		2#8	2#8	3#7	#3	16"12"	
CR-8	12	37	4#8	2#8	2#8	3#7	#3	16"12"	

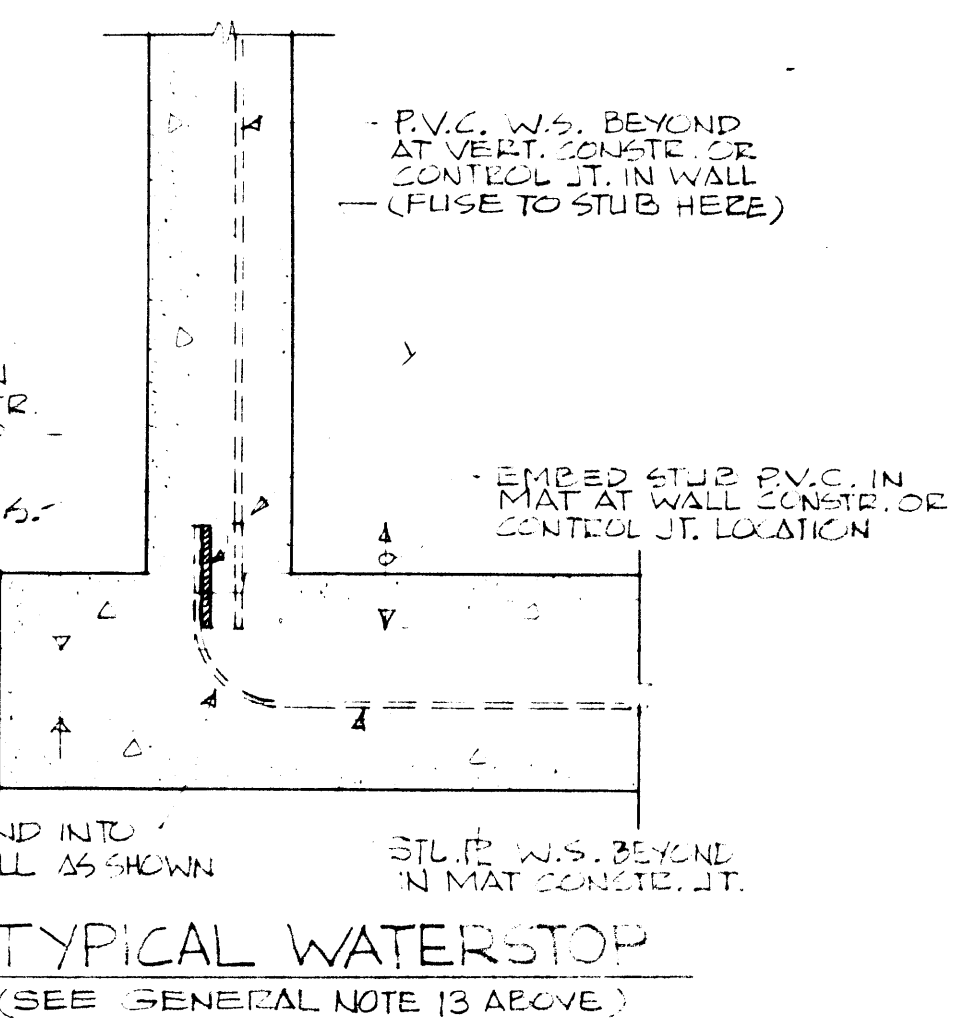


TYPICAL PILE CAP DETAILS

- GENERAL NOTES**  
(See Specifications.)
- LIVE LOADS:**
    - Roofs: 40 PSF
    - Administration Building Floor Slabs: 250 PSF
    - Sludge Handling Building Floor Slabs: 250 PSF
    - Tank Walkways: 100 PSF
  - PILES:** Driven to 30-ton minimum brg.; tops embedded 4" in mat or pile cap; provide dowels in pile tops as shown.
  - CONCRETE:** Shall have the following minimum 28 day compressive strengths:
 

Substructure, Superstructure	(Class B)	4000 p.s.f.
Equipment Pads, Substructure fill	(Class C)	3000 p.s.f.
Mud Mats	(Class E)	2000 p.s.f.
  - REINFORCING:**
    - Cast in Place Concrete: ASTM A615
    - Welded Wire Mesh: ASTM A185
    - Precast Concrete: ASTM A191

Reinforcements shall conform to requirements of ASTM A 305.
  - DETAILED REINFORCING:** In accordance with ACI 315-3, "Manual of Standard Practice for Detailing Reinforced Concrete Structures", and ACI-318-3, "Building Code Requirements for Reinforced Concrete" except that vertical mat wall dowels shall lap wall verticals 40 bar diameters. Reinforce all walls not otherwise shown with #4 @ 12 & V, E.I.P. Provide wall and column dowels to match vertical reinforcing unless otherwise shown.
  - REINFORCING BAR CLEARANCES:** In accordance with specification section P 12, except that all reinforcing or building structure shall be held 1" clear from face of concrete on exterior side.
  - CORNER REINFORCING:** Shall be as shown in typical detail unless otherwise shown.
  - OPENINGS IN WALLS & SLABS:** Place 3# horizontal over all openings 8" and greater in walls x 2' 0" longer than opening width. Additionally, place 2# x 5' 0" diagonally at opening corners. Place 2# @ 4' 0" @ 4 sides, diagonally at slab opening 8" and greater corners unless otherwise shown.
  - REINFORCE ALL SLABS ON GRADE:** (Not structural slabs) with 4 x 6 @ 12" x 12" placed no greater than 1" from finished slab surface.
  - SLAB-ON-GRADE:** In garage building shall bear on 2' 6" compacted lifts of Type E select fill placed and compacted as specified.
  - JOINTS:** In concrete shall be made as detailed and located only where shown unless Engineer's approval is obtained.
  - CONCRETE BEAMS:** Shall be monolithic with slab except where construction joints are otherwise shown. Pocket walls as required to provide minimum bearing for beams.
  - WATERSTOPS:** Placed in substructure only as indicated.
    - Horizontal waterstops: steel plate as specified in MP 21.02 (b)
    - Vertical waterstops: 2" x 3" thick P.I. approved by Engineer.
  - ANCHOR BOLT FORMWORK:** All inserts, dowels, steel and or aluminum angles, sleeves, castings, anchors, dowels, pockets, kerfs, air bars, tread machines, other misc. required for architectural, structural, mechanical, plumbing, heating, electrical work, before placing concrete. Coordinate drawings and specifications of all trades involved in project. Openings under 8" are not shown on structural drawings; refer to other appropriate drawings. Verify size and location of sleeves and castings in walls and slabs with Engineer.
  - VERIFY:** Size of concrete pads shown or otherwise required with equipment manufacturer. Provide dowels #4 x 1' 0" @ 1' o.c. ea. way for anchorage of all concrete pads.
  - BACKFILL:** Shall not be placed until filter cloth is placed or wall is otherwise braced at top in a manner approved by the Engineer.



TYPICAL WATERSTOP

JF 331  
JMB 22-3-68  
JMB 7-2-68  
JMB 7-2-68

IN CHARGE OF: TK  
DESIGNED BY: JS  
MADE BY: RS  
CHECKED BY: JS

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT

TREATMENT PLANT  
**ALL BUILDINGS SCHEDULES, DETAILS**

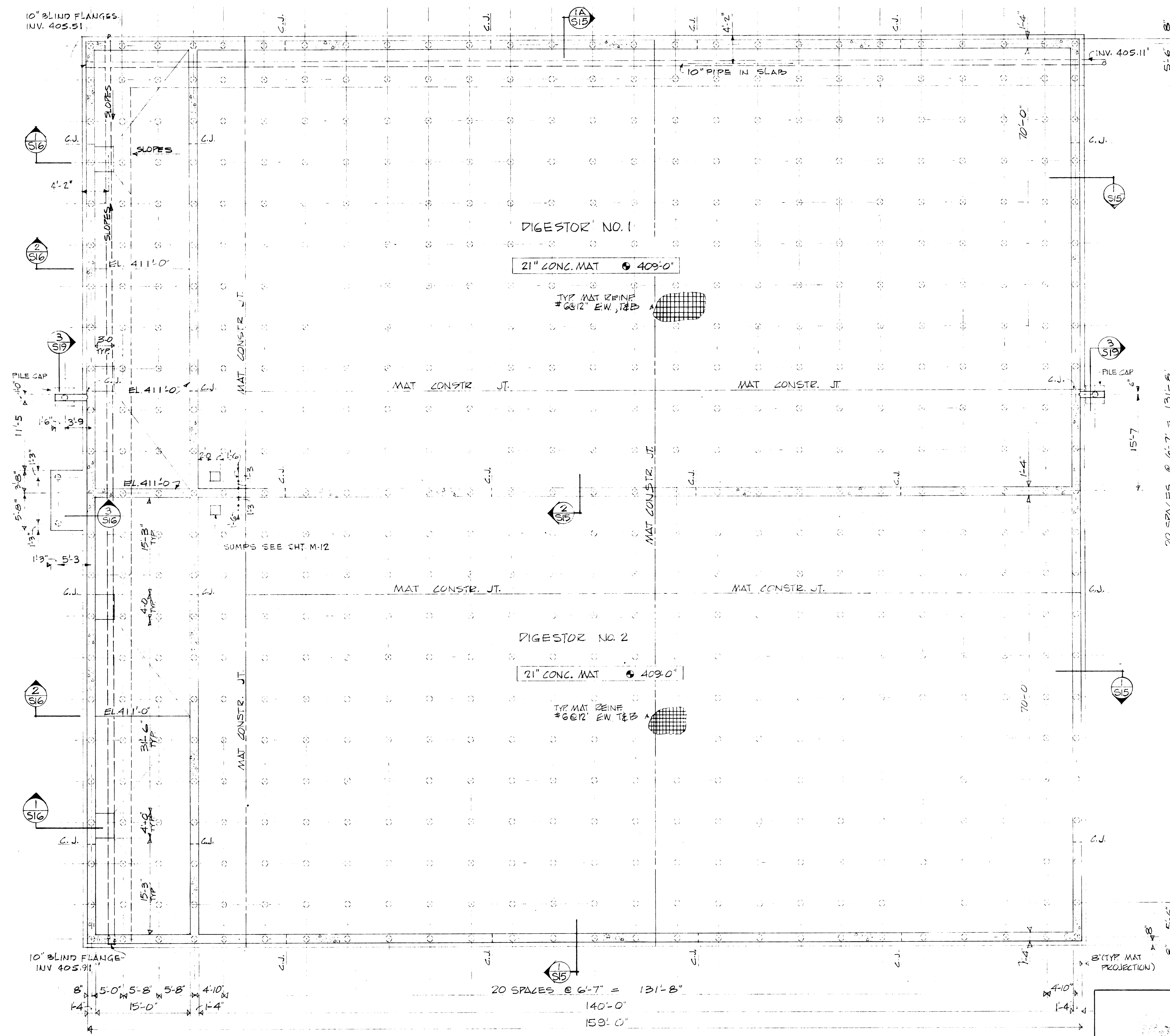
O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
SYRACUSE, NEW YORK

DATE: FEBRUARY 14, 1968  
SCALE: AS NOTED  
FILE NO.: 113W-29F

**S-14**

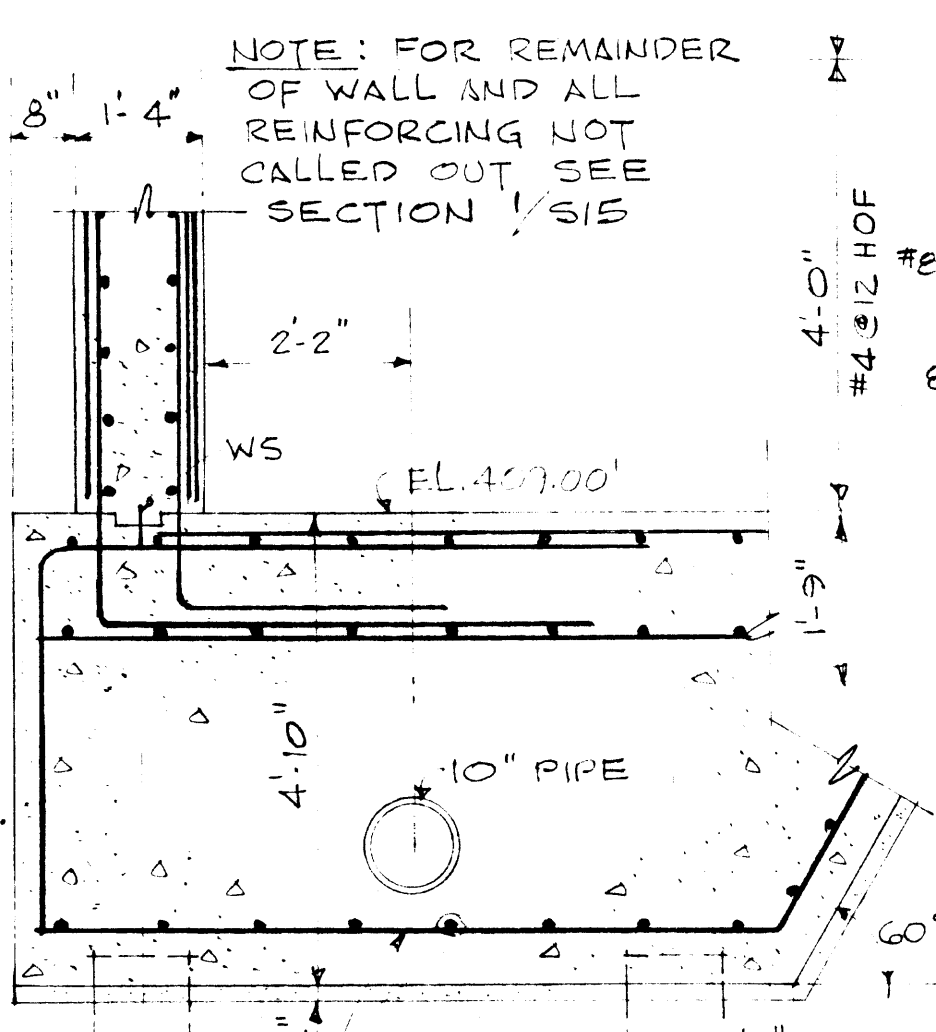


10" BLIND FLANGES  
INV. 405.51



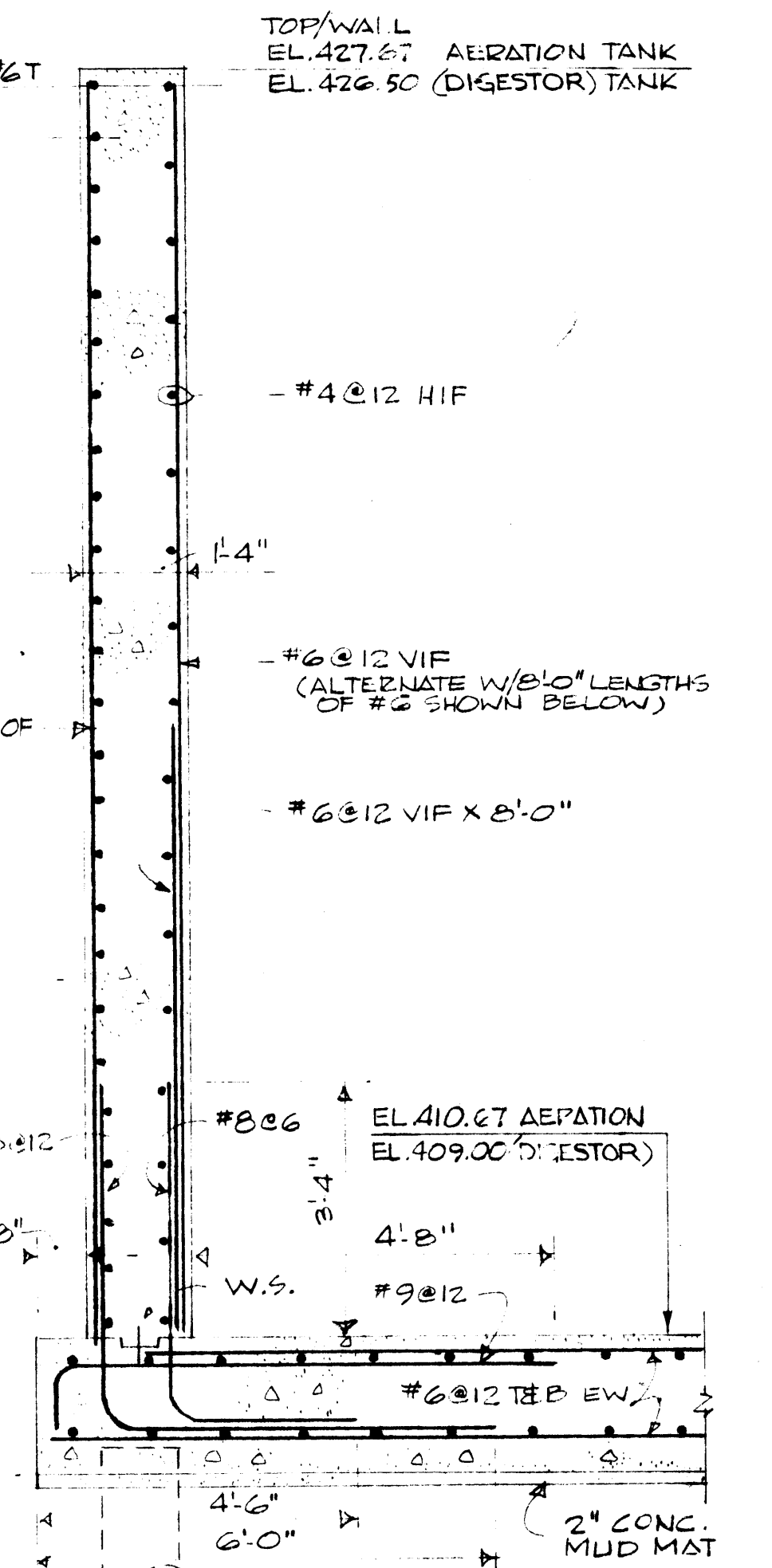
**NOTES**

- C.J. ON PLAN DENOTES CONSTRUCTION JOINT. CONTROL JOINTS IN TANK WALLS NOT PERMITTED.
- PROVIDE ADDITIONAL REINF. ACROSS CONSTR. JOINTS AS SHOWN ON SHT. S-14.
- LAP MAT TOP REINF. 3/8 DIA. AT APPROX. MATE. MID-POINT BETWEEN PILES.
- LAP MAT BOT. REINF. 3/8 DIA. AT PILE SUPPORT.

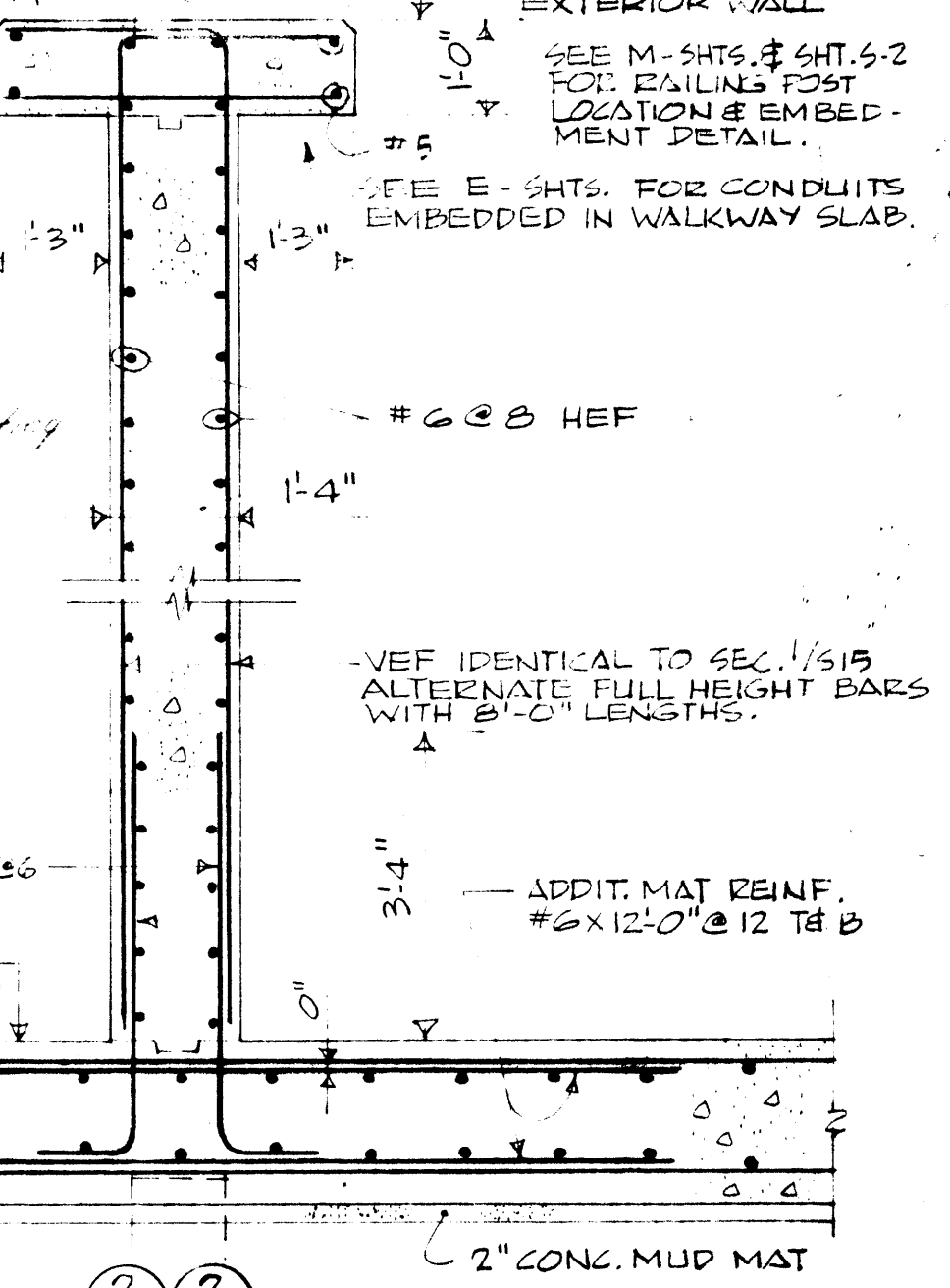


**SECTION 1A/S15**  
SCALE: 1/2" = 1'-0"

Note:  
A 3' x 3' 45° mat shall be constructed of Class C concrete at the bottom interior of the north wall and west wall of Aerobic Digester No. 2. Fillets shall not be used in either secondary tank except as shown. Fillets shall be keyed to wall's slabs. The mat dimensions shall be reduced to 1' x 1' for 2' diameter size of the sump in the north-west corner of Digester No. 1 & the sump in the northeast corner of Digester No. 2.

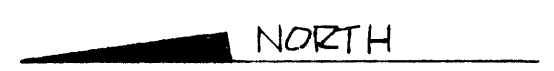
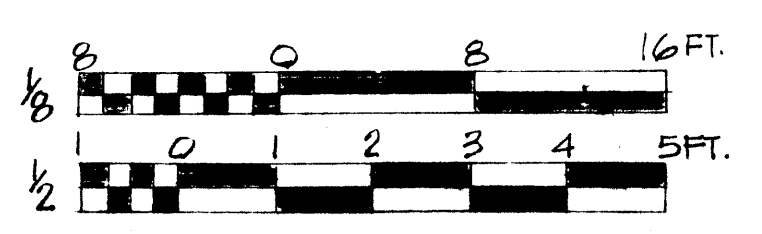


**SECTION 1/S17 EXTERIOR WALL**  
AEROBIC DIGESTOR TANKS  
SCALE: 1/2" = 1'-0"



**SECTION 2/S17 INTERIOR WALL**  
AEROBIC DIGESTOR TANKS  
SCALE: 1/2" = 1'-0"

**FOUNDATION PLAN**  
SCALE: 1/8" = 1'-0"



J.F. 33L  
J.M.D. 2-2-72  
J.M.P. 2-2-72  
W.J.P. 2-2-72

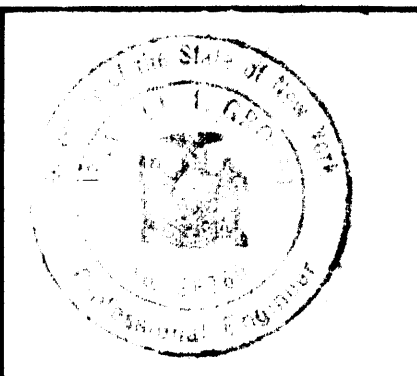
IN CHARGE OF: TK  
DESIGNED BY: JS  
MADE BY: RS, EG  
CHECKED BY: JS

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK—LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT  
**AEROBIC DIGESTOR  
FOUNDATION PLAN**

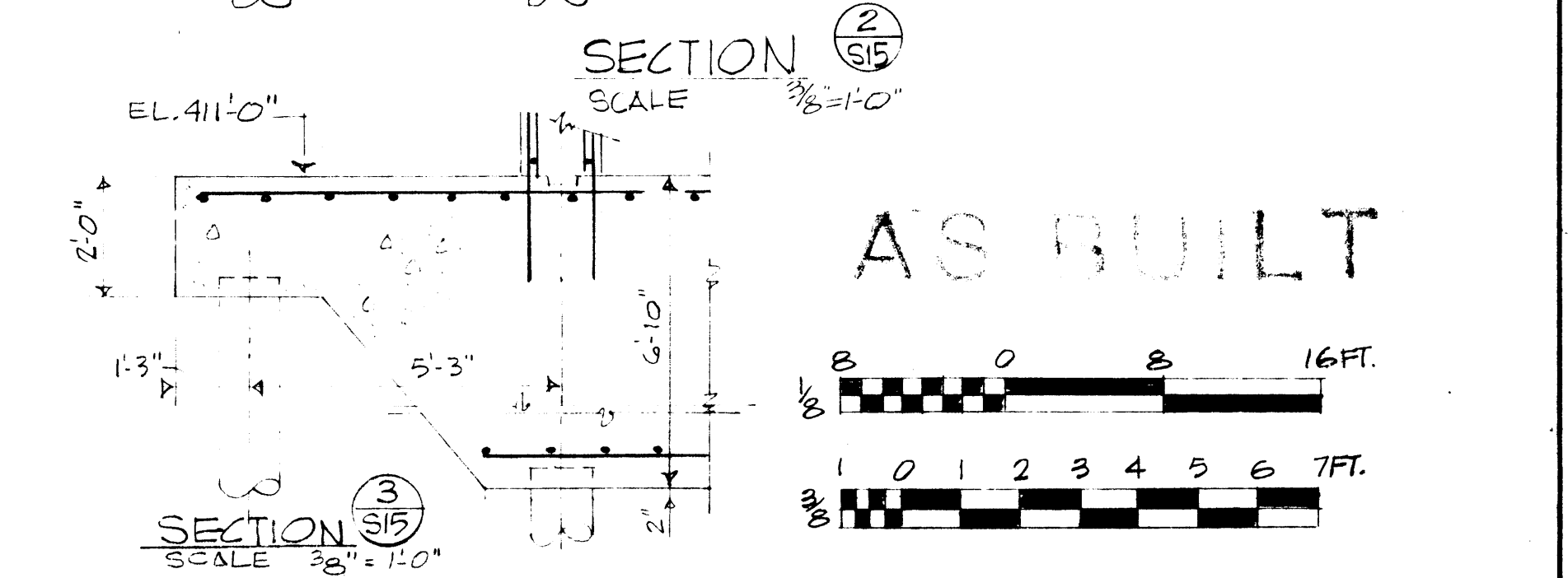
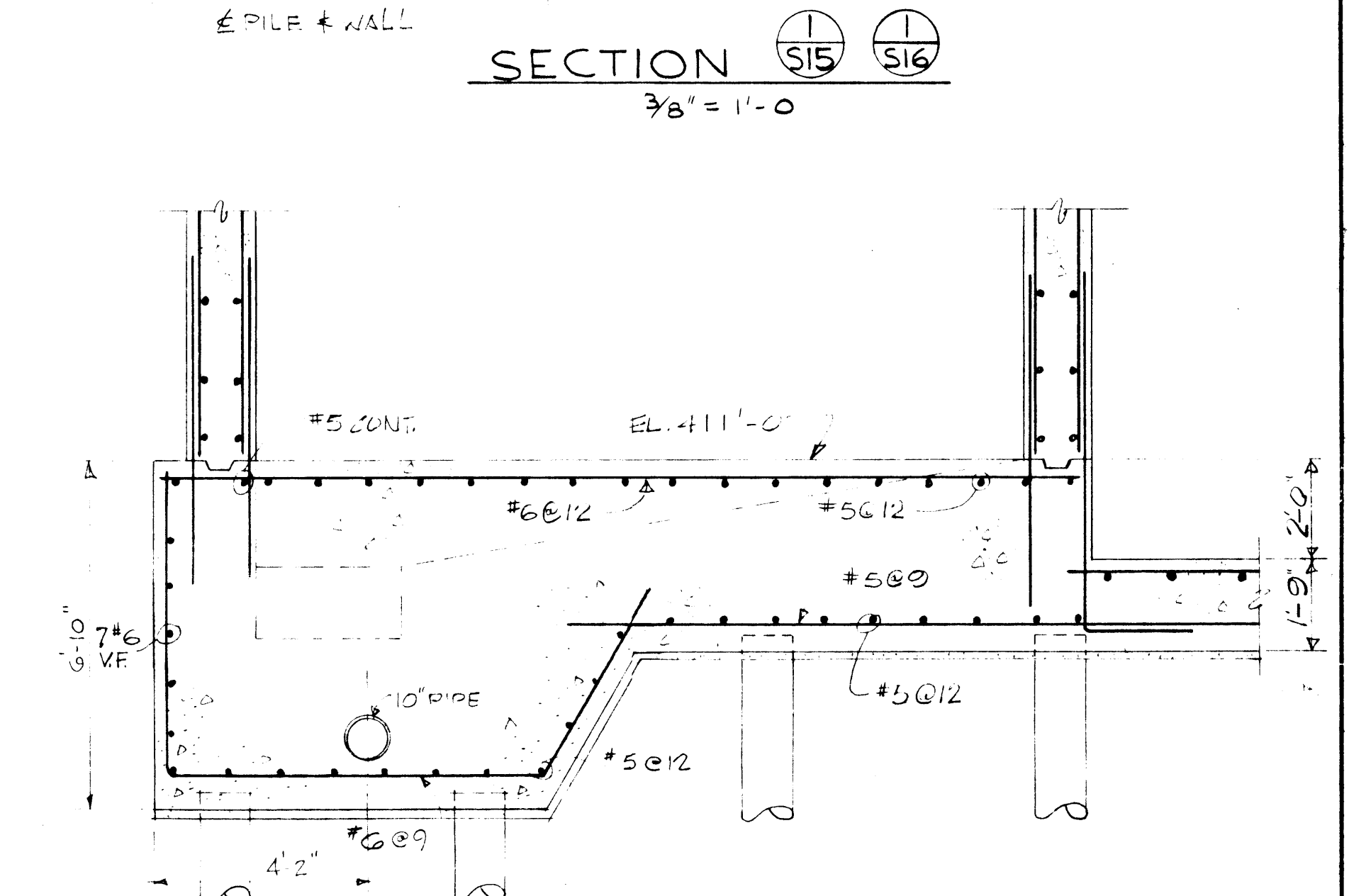
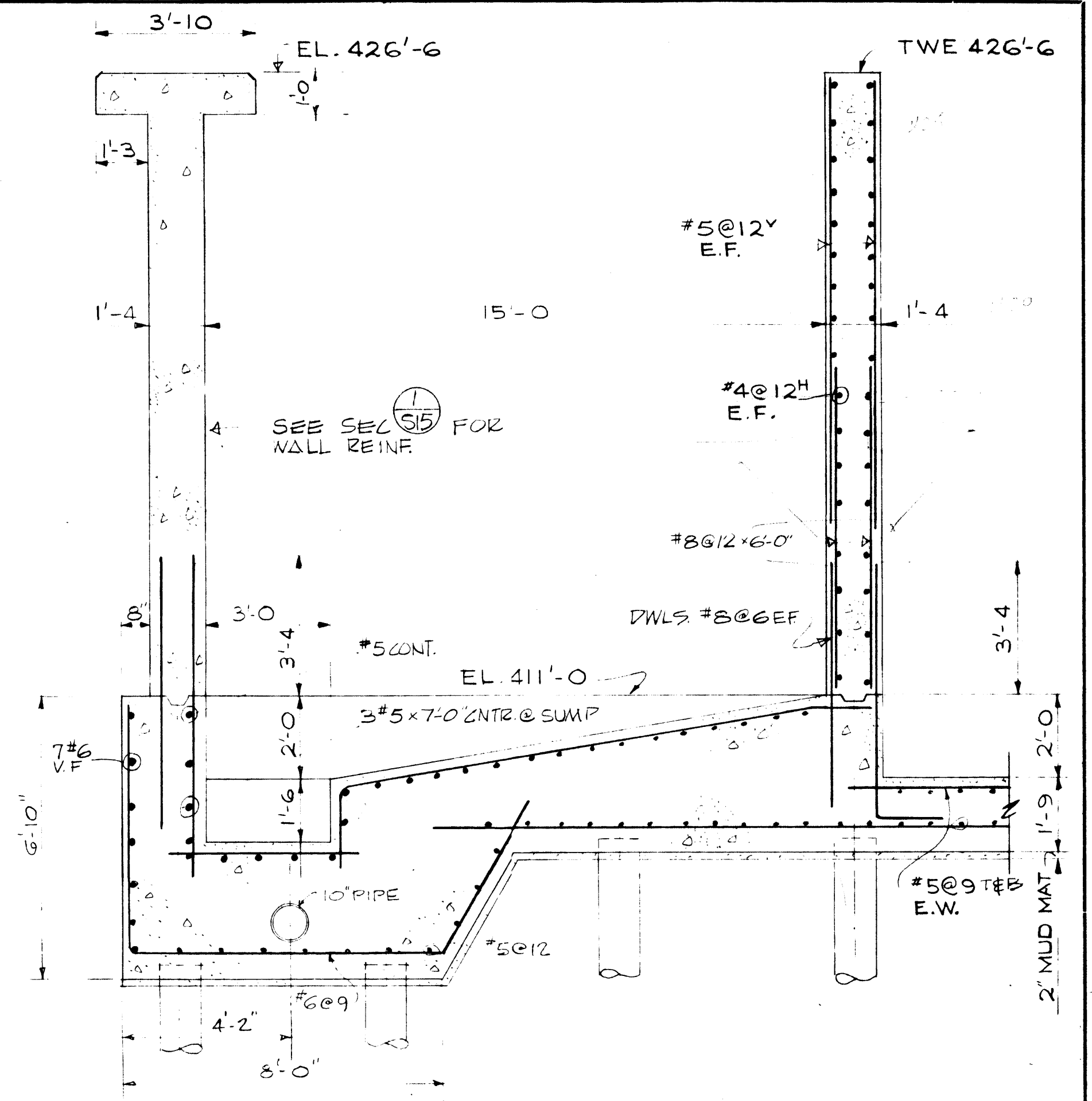
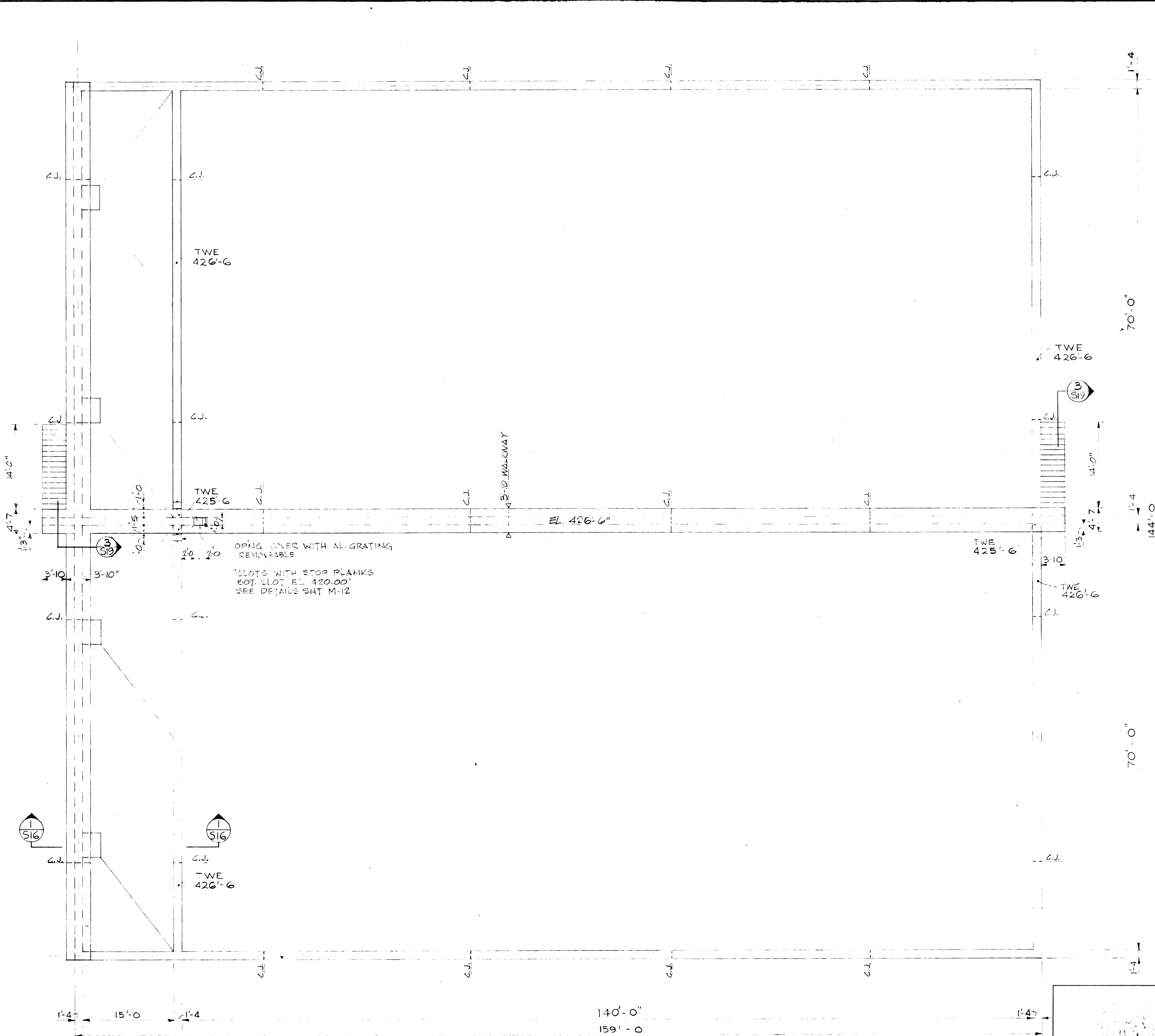
O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
SYRACUSE, N.Y.

DATE: FEBRUARY 14, 1968  
SCALE: AS NOTED  
FILE NO.: 115.149.30F

REVISIONS  
APR 7/72  
1/5/68



S-15

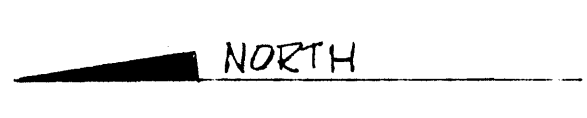


AS BUILT

0 8 16 FT.

0 1 2 3 4 5 6 7 FT.

WALKWAY PLAN  
SCALE 1/8" = 1'-0"

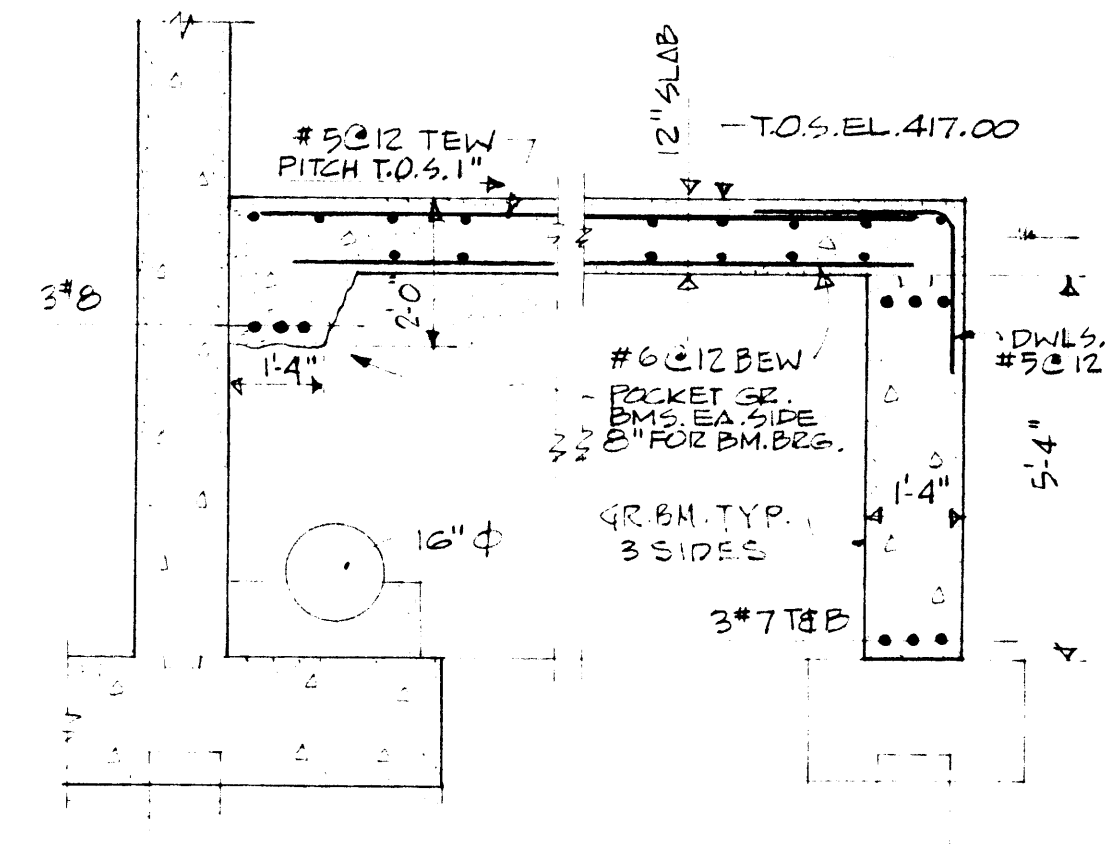
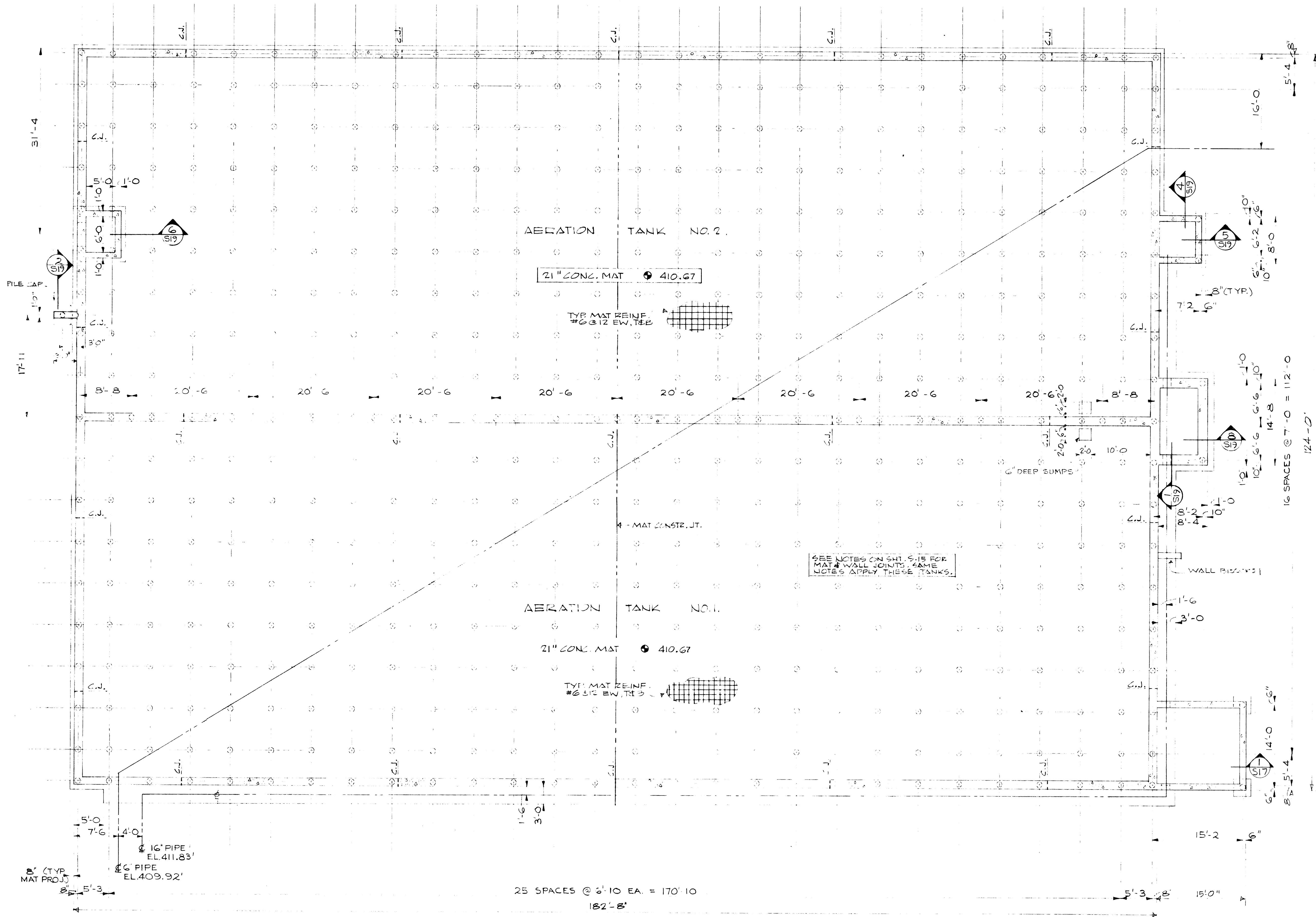


IN CHARGE OF: TK  
DESIGNED BY: JS  
MADE BY: EG  
CHECKED BY: JS

DATE: 2-2-72  
DATE: 2-2-72  
DATE: 2-2-72

	ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT <b>AEROBIC DIGESTOR          PLAN, SECTIONS</b>		
	O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: AS NOTED FILE NO.: 115.149-31F	





SEC. S17  
SCALE: 3/8" = 1'-0"

SEE NOTES ON SH. 5-15 FOR  
MAT & WALL JOINTS. SAME  
NOTES APPLY THESE TANKS.

A 3'-0" x 3'-0" 45° fillet shall be constructed of Class 'D' Conc. at the bottom interior of the north, east, south & west of Aeration Tank No. 1 & No. 2. Fillets shall be keyed to walls & slabs. The fillet shall not be req'd 2'-0" either side of the sump in the south-east corner of Aeration Tank No. 1 & the southwest corner of Aeration Tank No. 2

AS BUILT



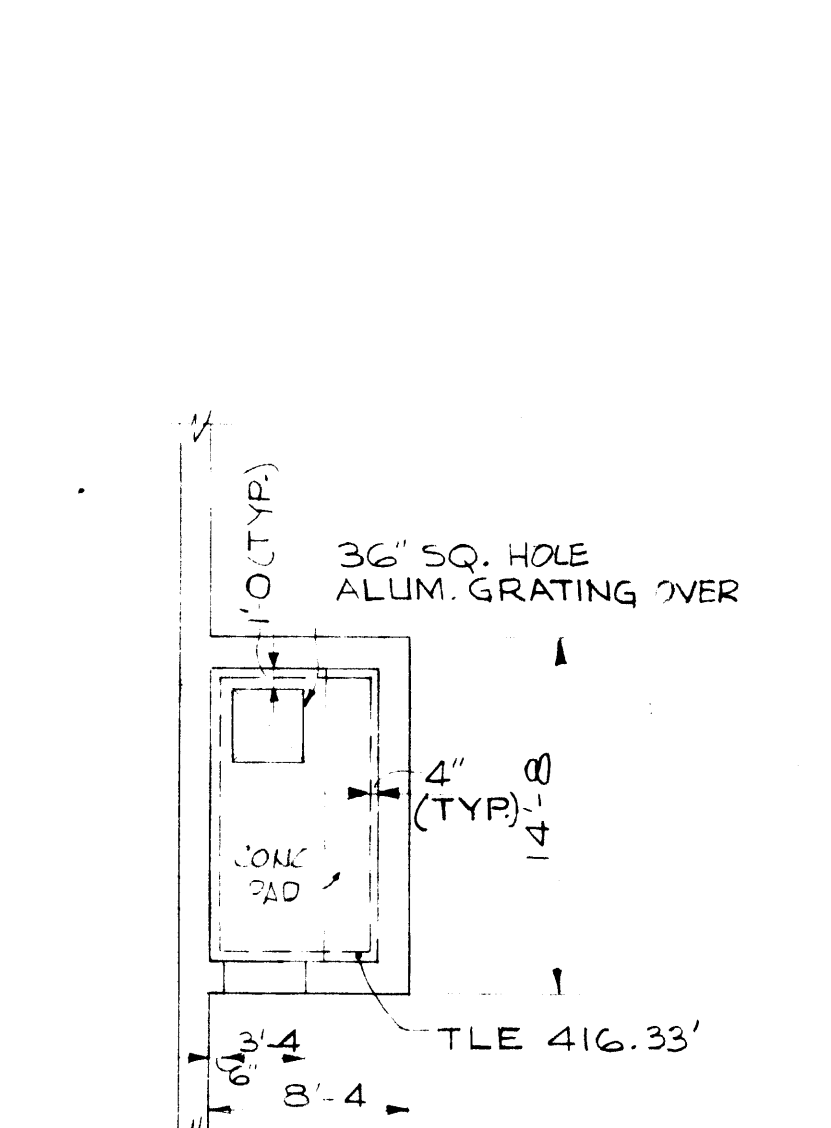
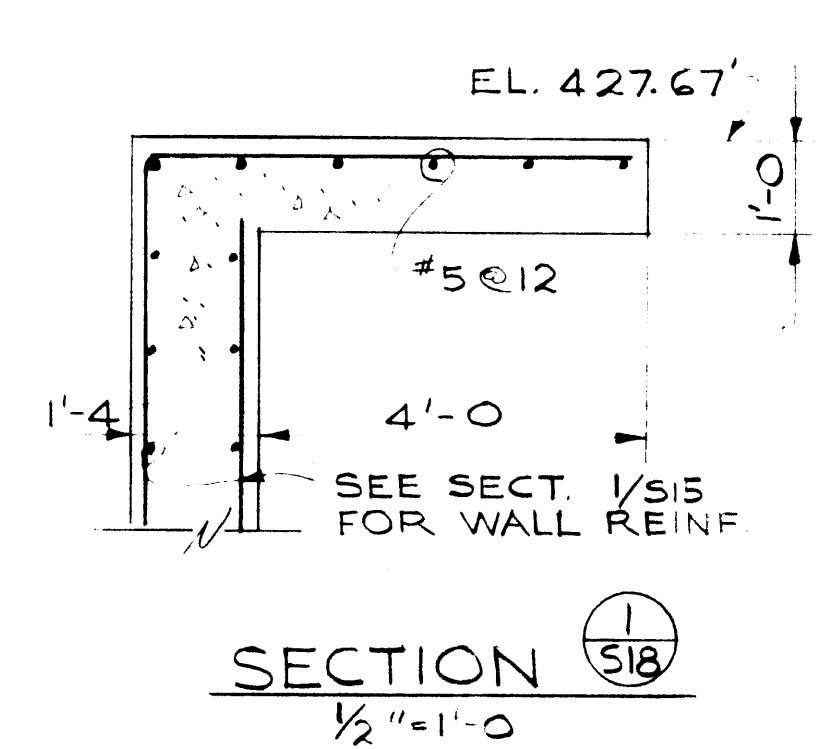
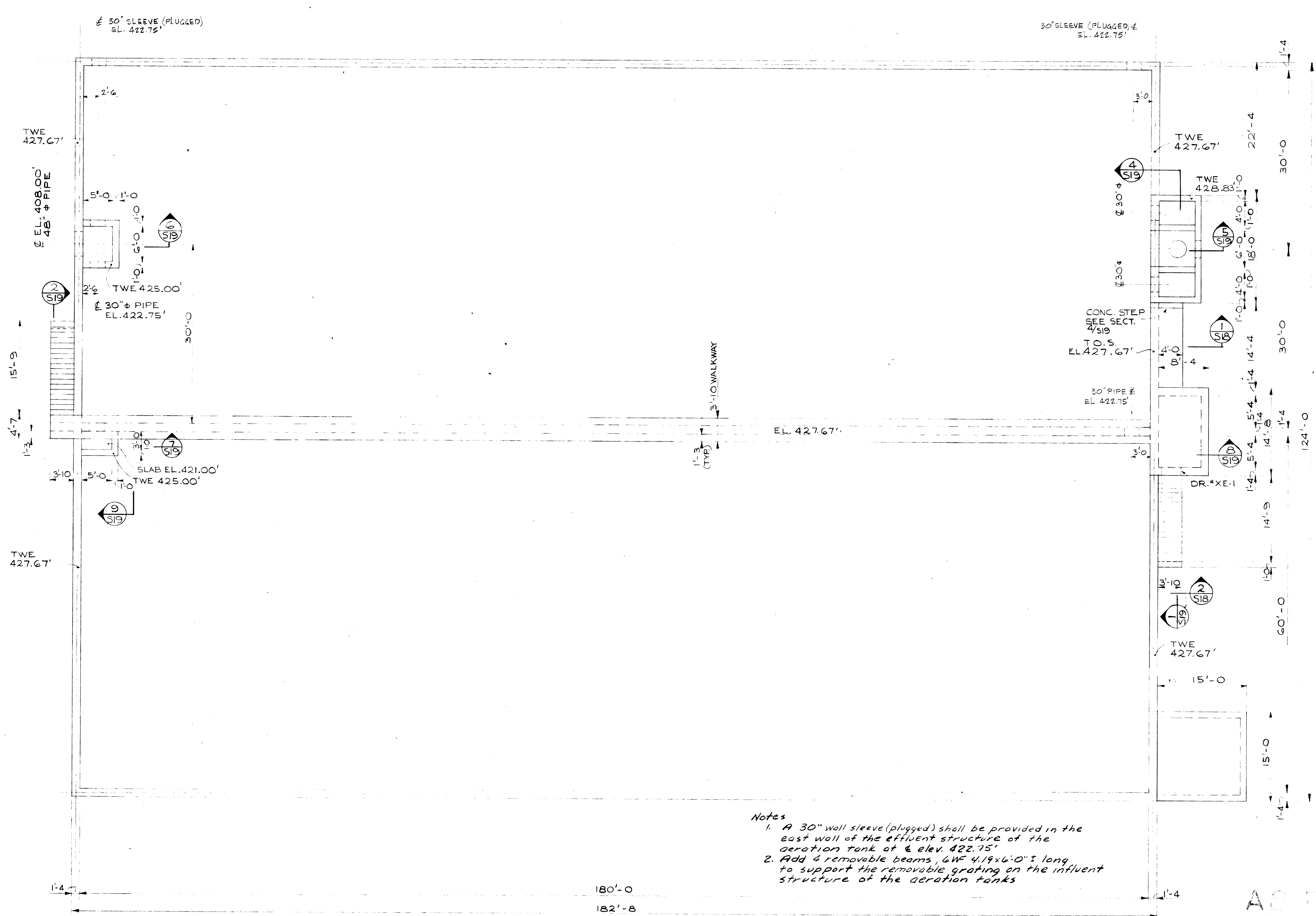
PILING & FOUNDATION PLAN  
SCALE: 1/8" = 1'-0"



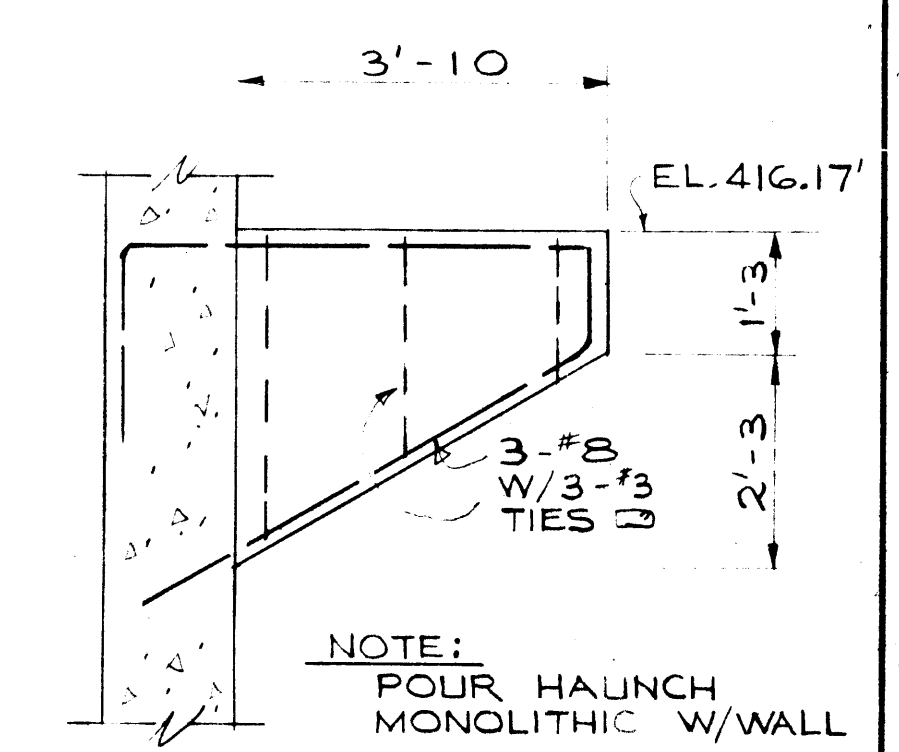
J.P. 331  
J.M.B. 332  
J.M.B. 333  
W.P. 334

IN CHARGE OF: TK  
DESIGNED BY: JS  
MADE BY: EG  
CHECKED BY: JS

	ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT <b>AERATION TANKS          FOUNDATION PLAN</b>		
	O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, N.Y.	DATE: FEBRUARY 14, 1968 SCALE: AS NOTED FILE NO.: 115,149-32F	



CONTROL ROOM  
FLOOR PLAN  
1/8" = 1'-0"  
NOTE:  
1. TOP OF 8" STRUCT. SLAB AT  
EL. 417.00'

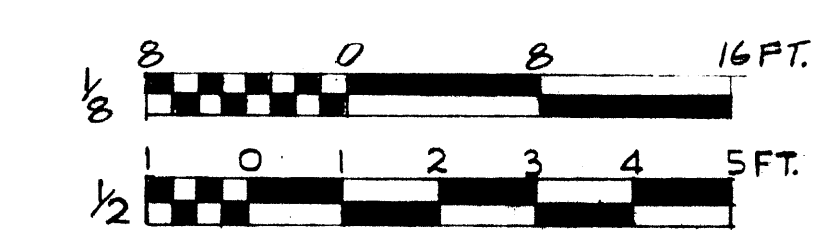


SECTION 2/18  
1/2" = 1'-0"

Notes  
1. A 30" wall sleeve (plugged) shall be provided in the east wall of the effluent structure of the aeration tank at & elev. 422.75'  
2. Add 4 removable beams, 6WF 4.19x6'-0" long to support the removable grating on the influent structure of the aeration tanks

AS BUILT

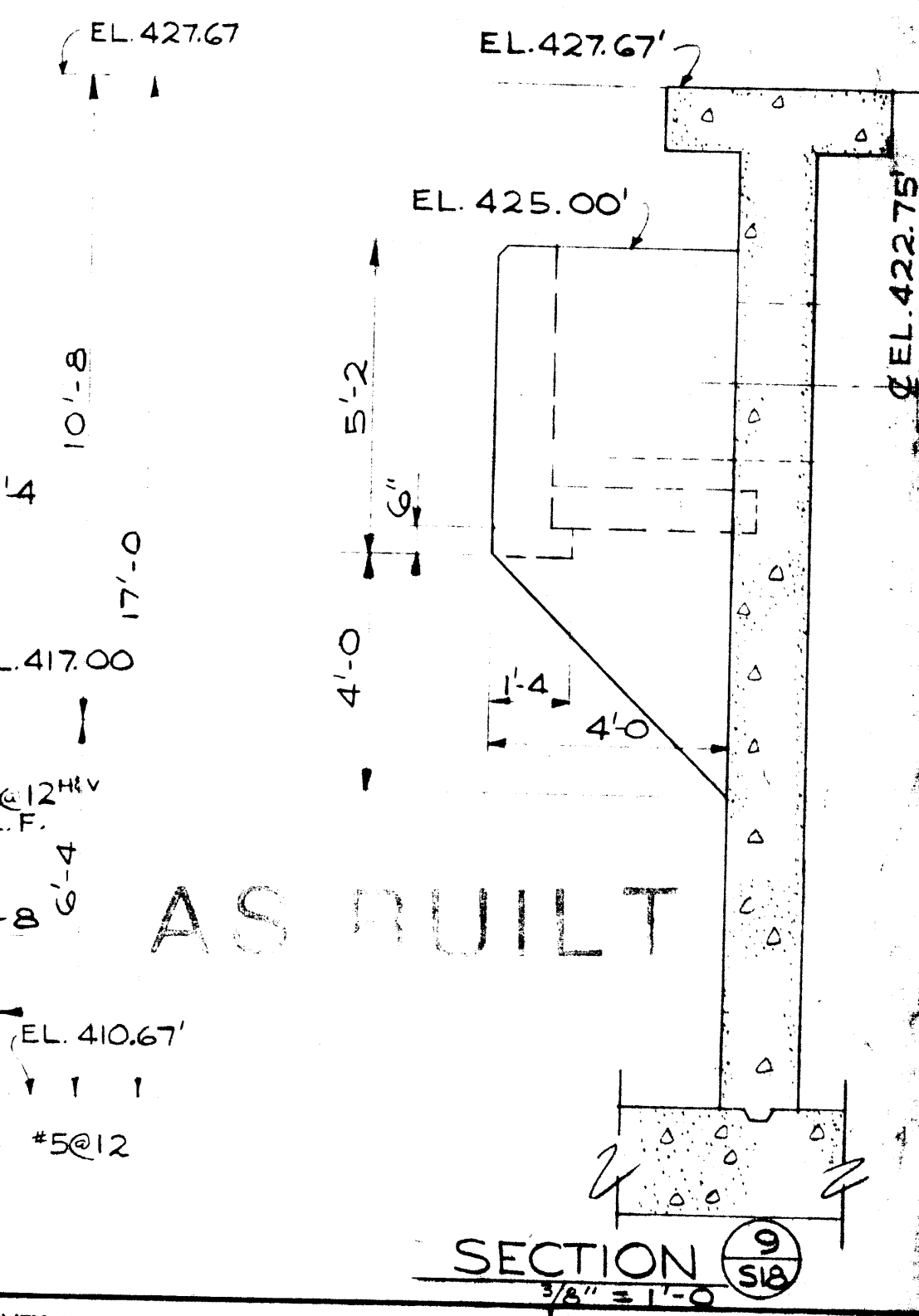
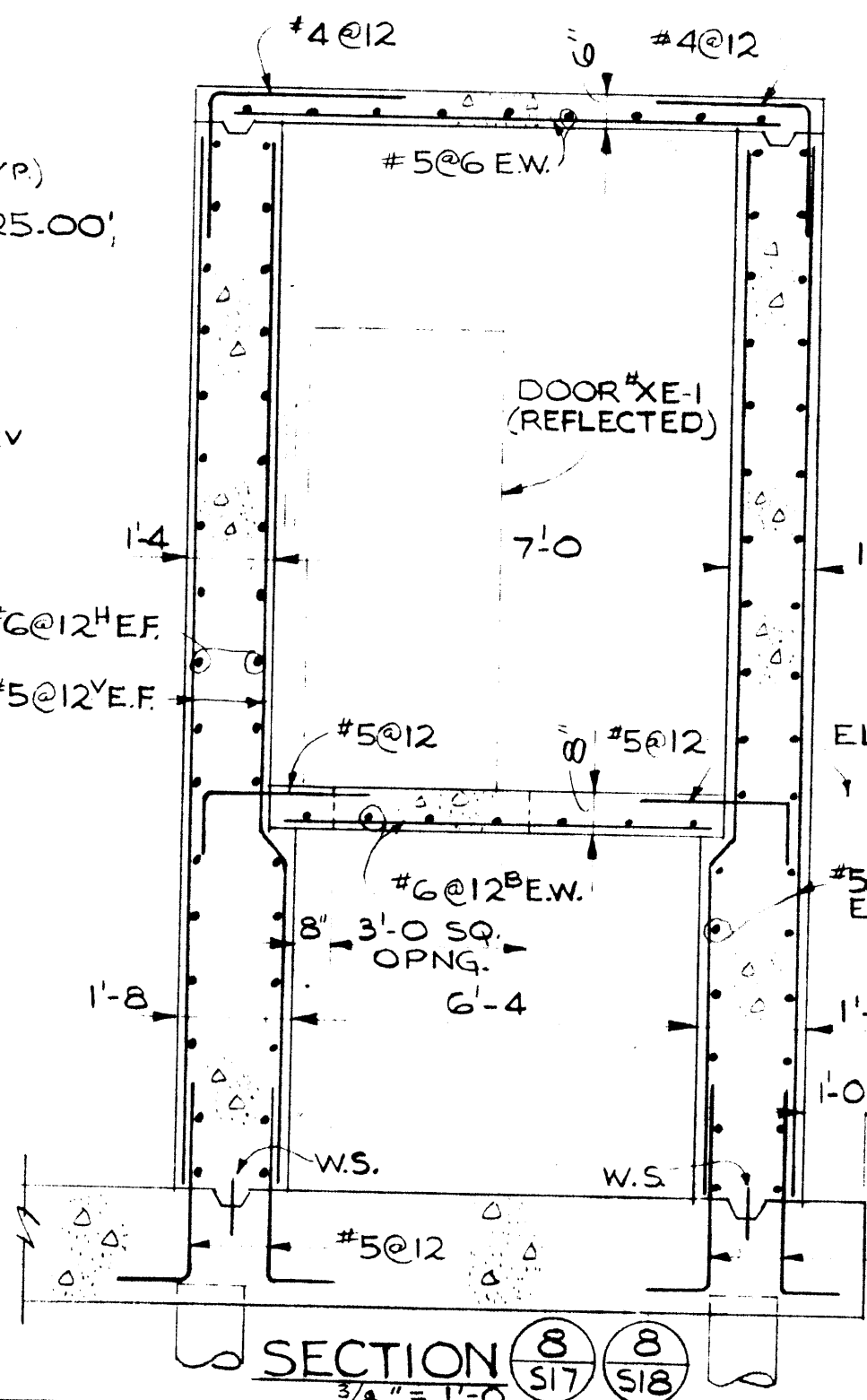
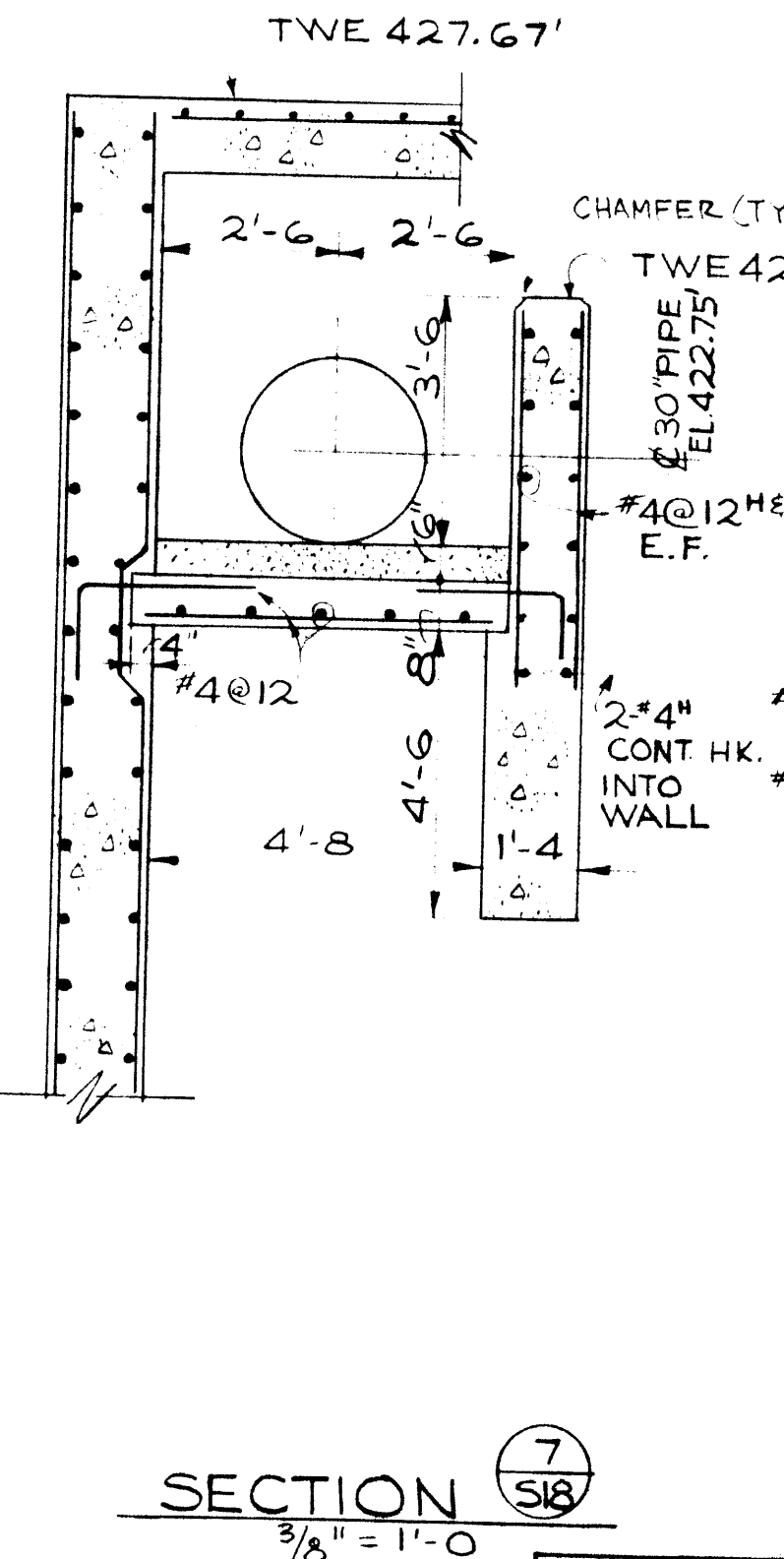
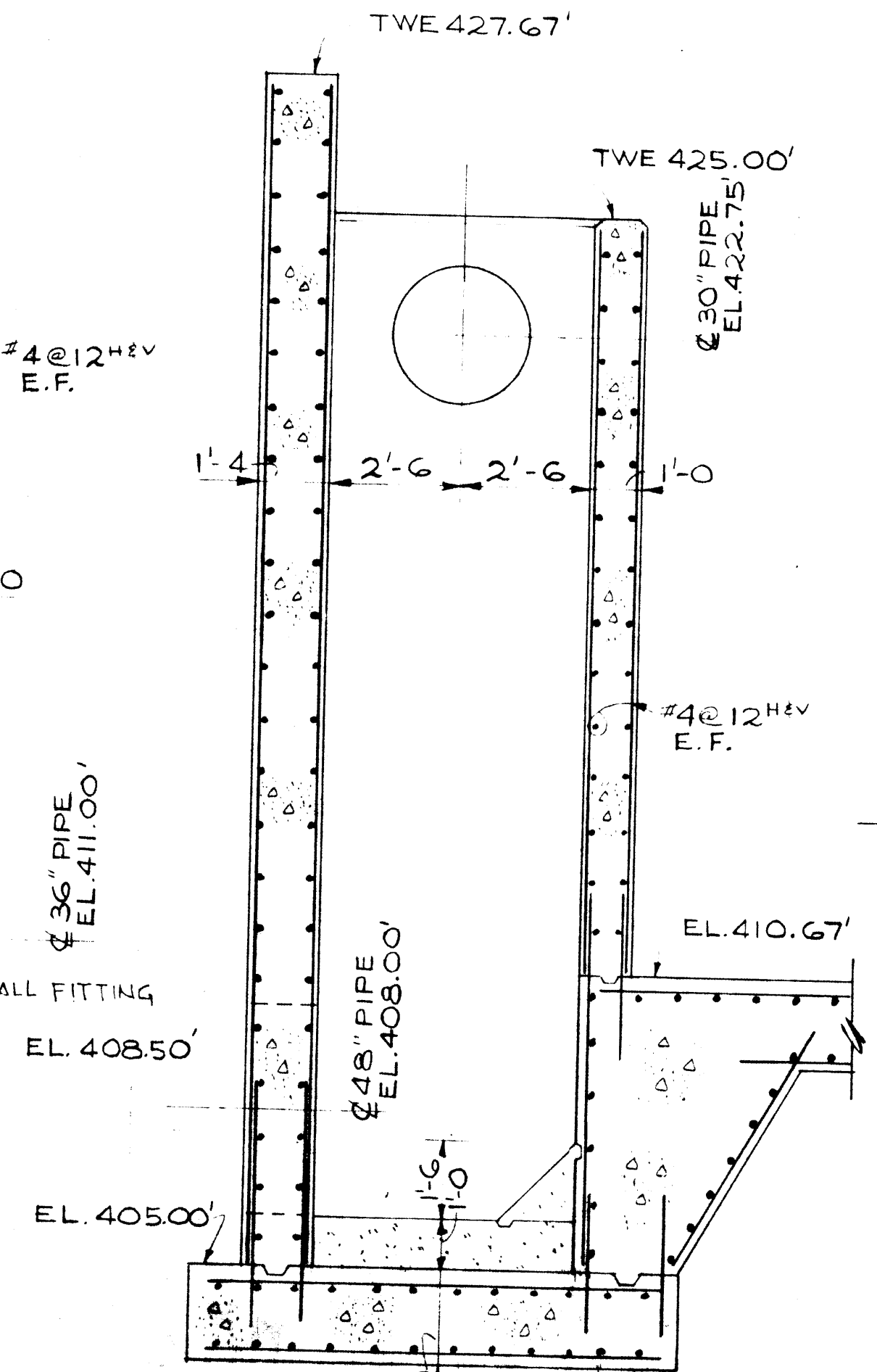
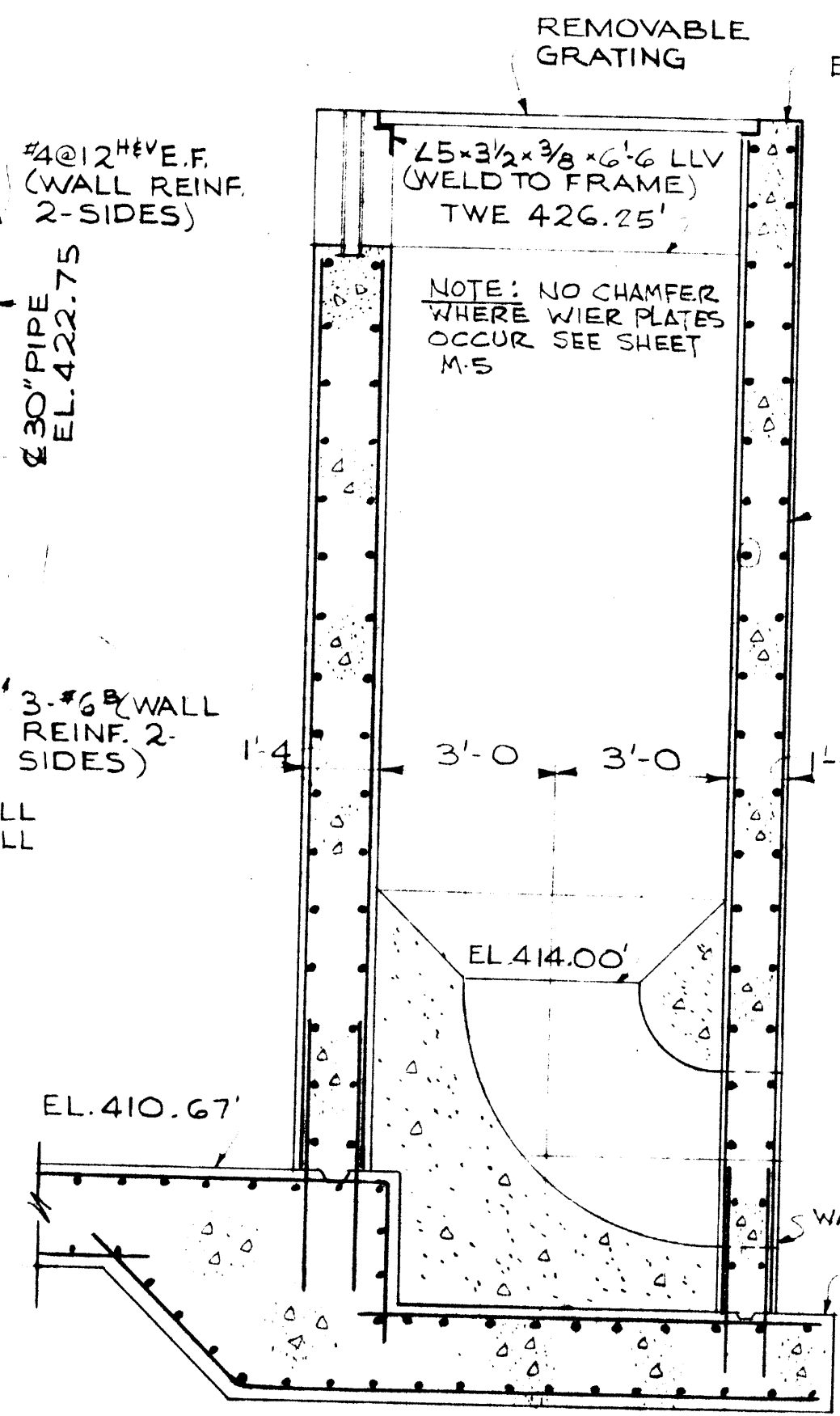
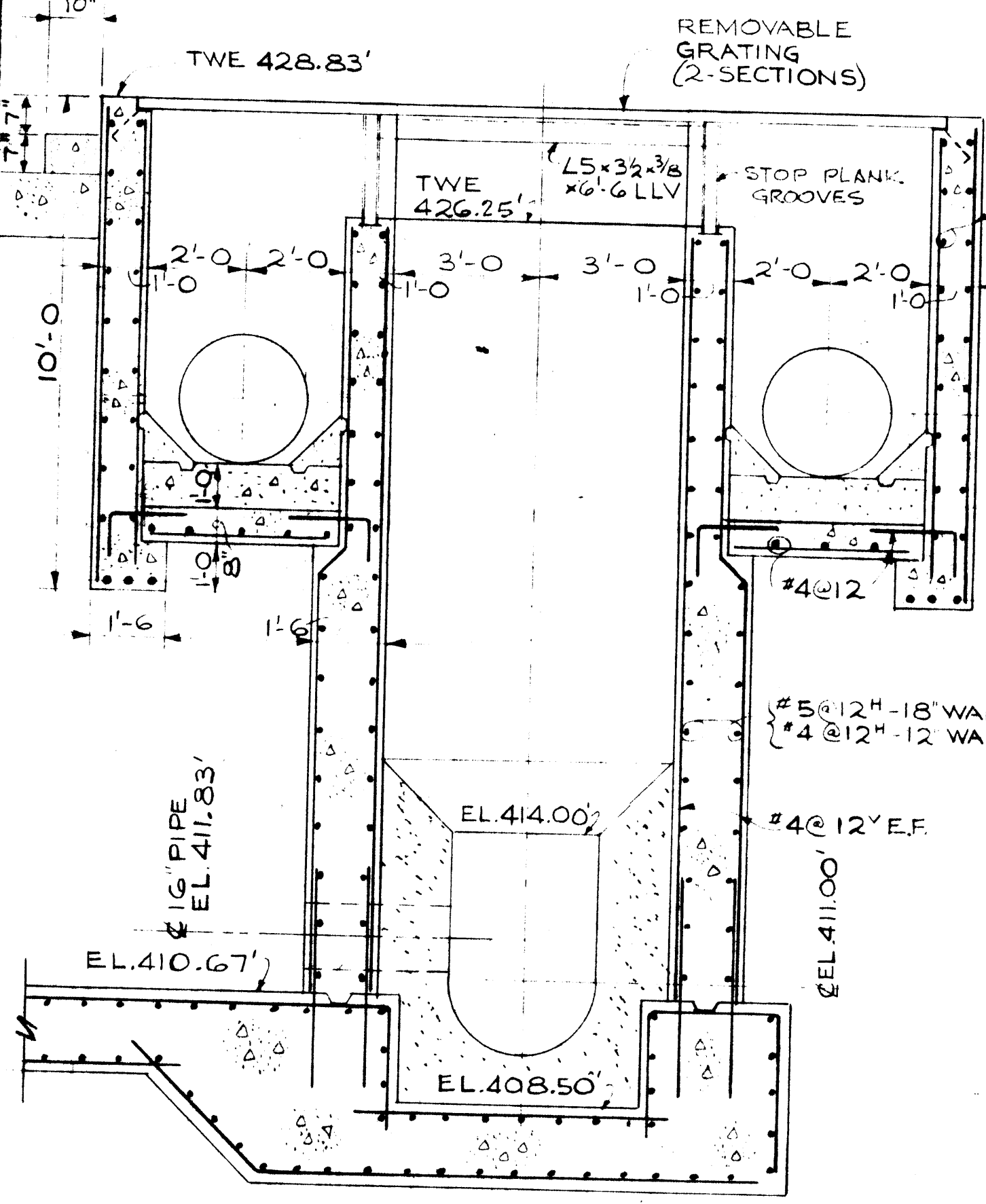
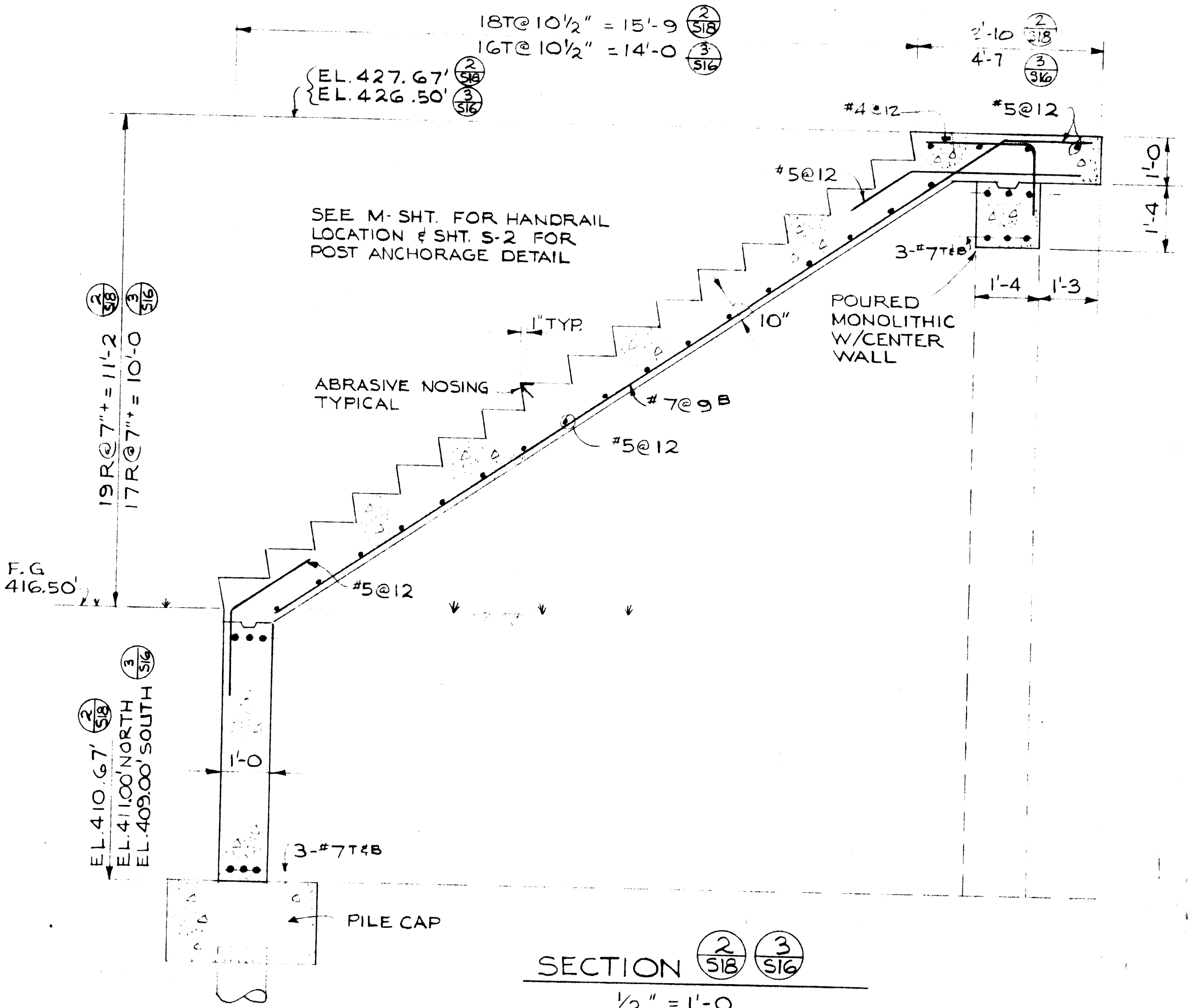
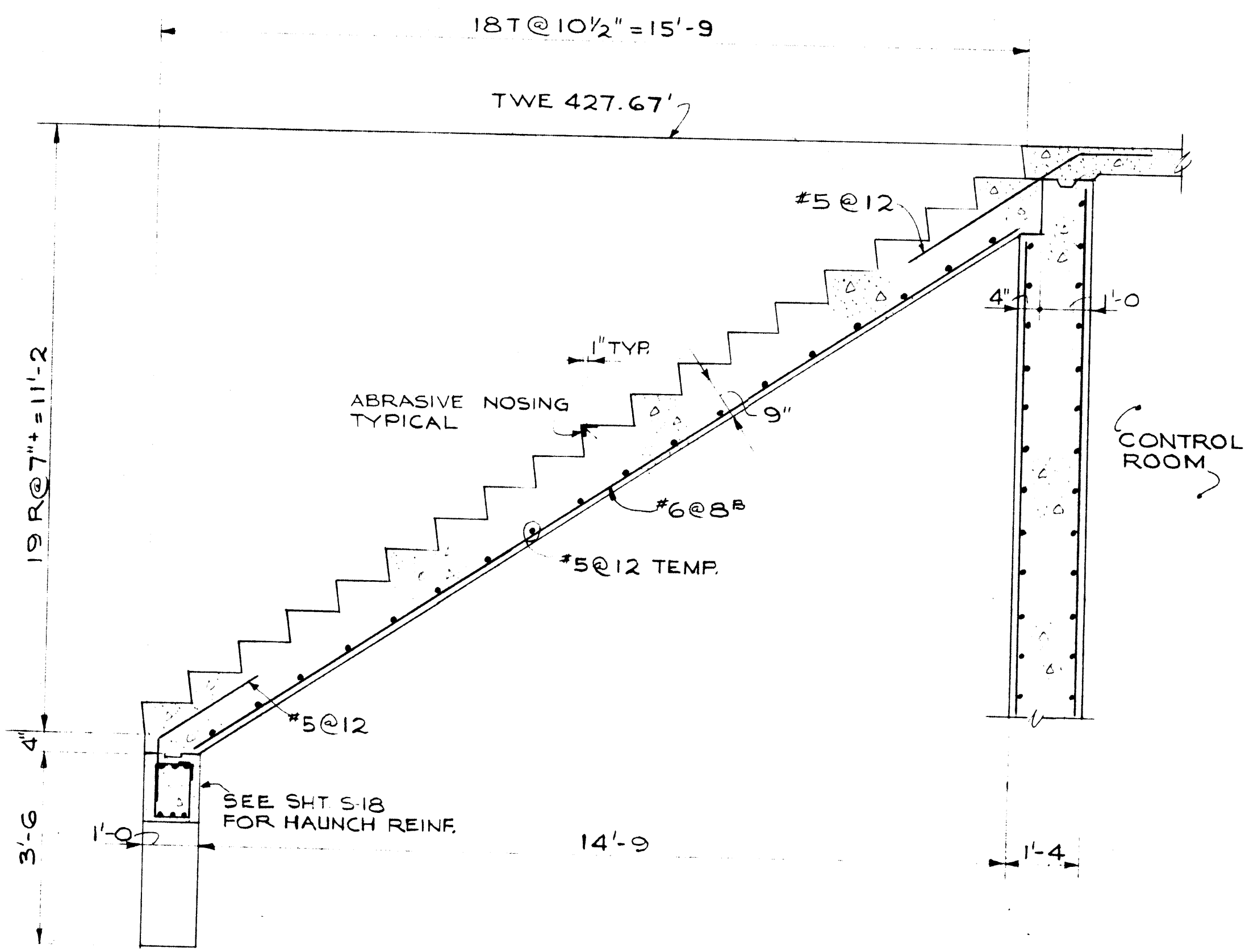
WALKWAY PLAN  
SCALE 1/8" = 1'-0"  
NORTH



IN CHARGE OF: TK  
DESIGNED BY: JS  
MADE BY: EG  
CHECKED BY: JS

	ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT		
	TREATMENT PLANT <b>AERATION TANKS          PLAN, SECTIONS</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: AS NOTED FILE NO.: 115.149.33F	S-18	





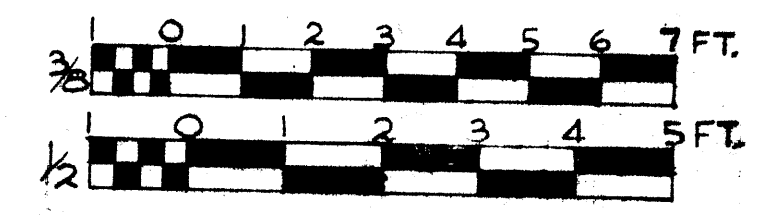
AS BUILT

IN CHARGE OF: TK  
DESIGNED BY: JS  
MADE BY: EG  
CHECKED BY: JS

SECTION 4 (S17/S18)  
3/8" = 1'-0"

SECTION 5 (S17/S18)  
3/8" = 1'-0"

SECTION 6 (S17/S18)  
3/8" = 1'-0"

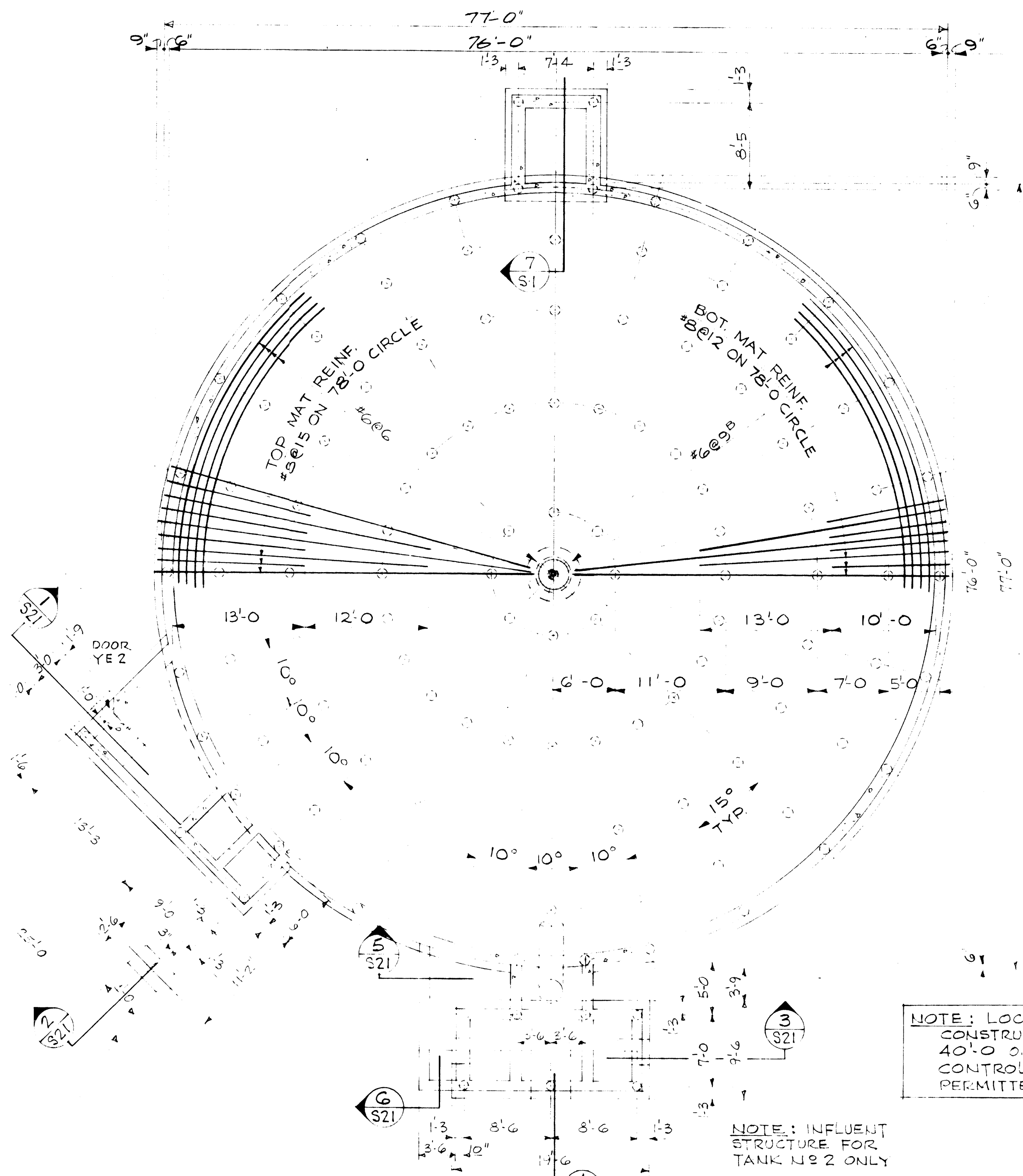


MACAUGHT - AIRMASE - FRENCH & SIZING  
CONSULTING ARCHITECTS  
1000 W. 10TH ST.  
ALBANY, N.Y. 12206

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT  
**TREATMENT PLANT  
TANKS  
SECTIONS**  
O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
1000 W. 10TH ST.  
ALBANY, N.Y. 12206

DATE: FEBRUARY 14, 1968  
SCALE: AS NOTED  
FILE NO.: N.M. - 34F

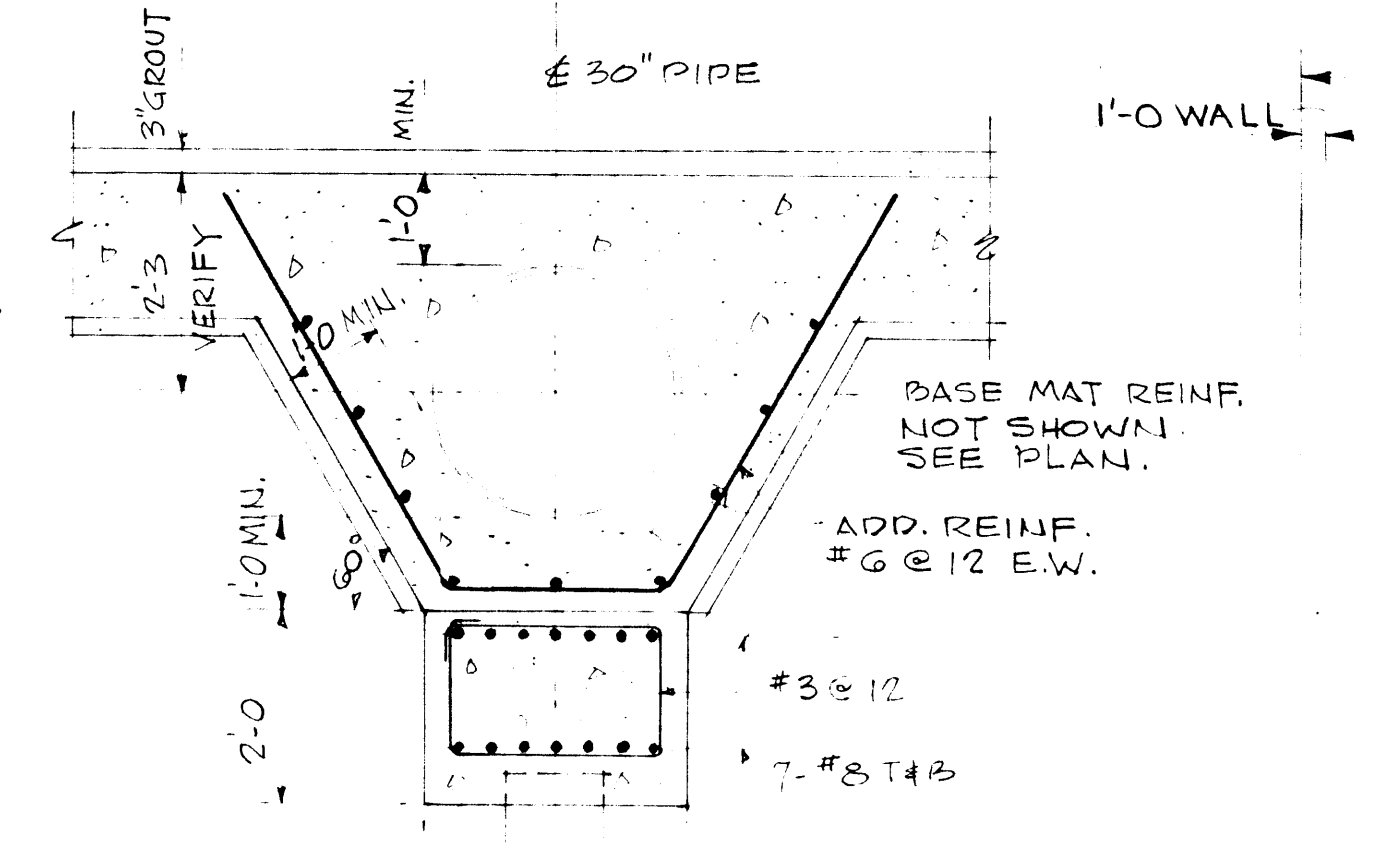




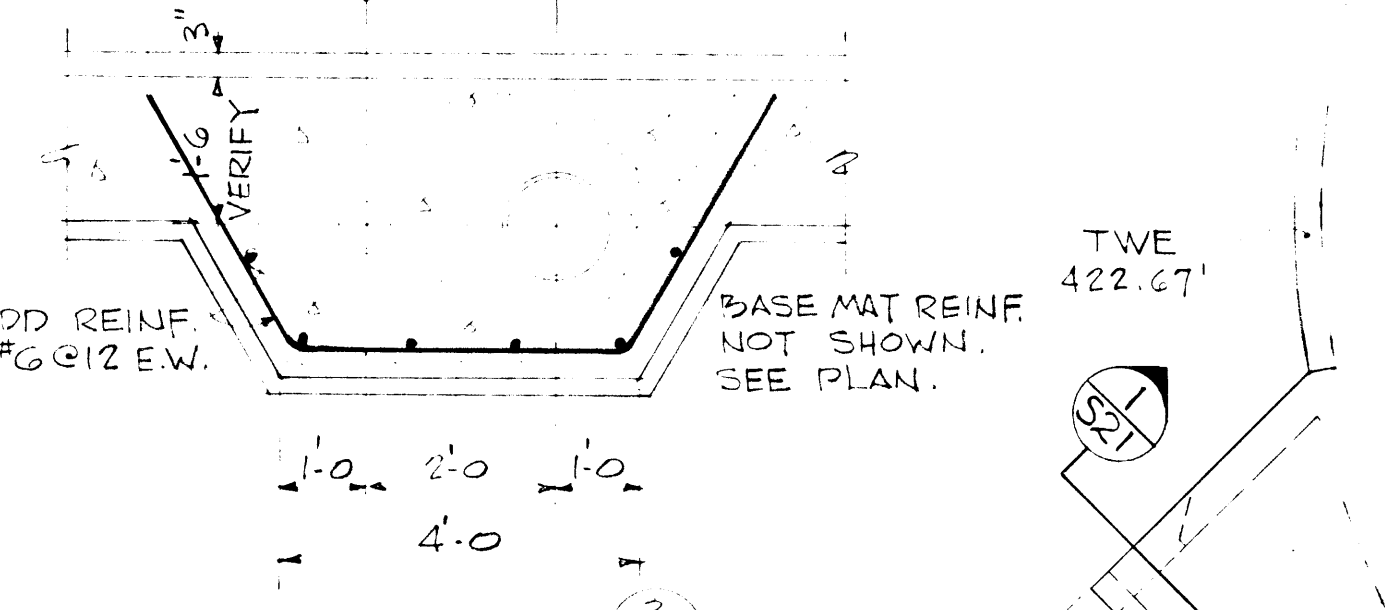
FOUNDATION PLAN TANK NO 2  
1/8" = 1'-0"

NOTE: LOCATE WALL CONSTRUCTION JOINTS 40'-0" O.C. MAXIMUM. CONTROL JOINTS NOT PERMITTED.

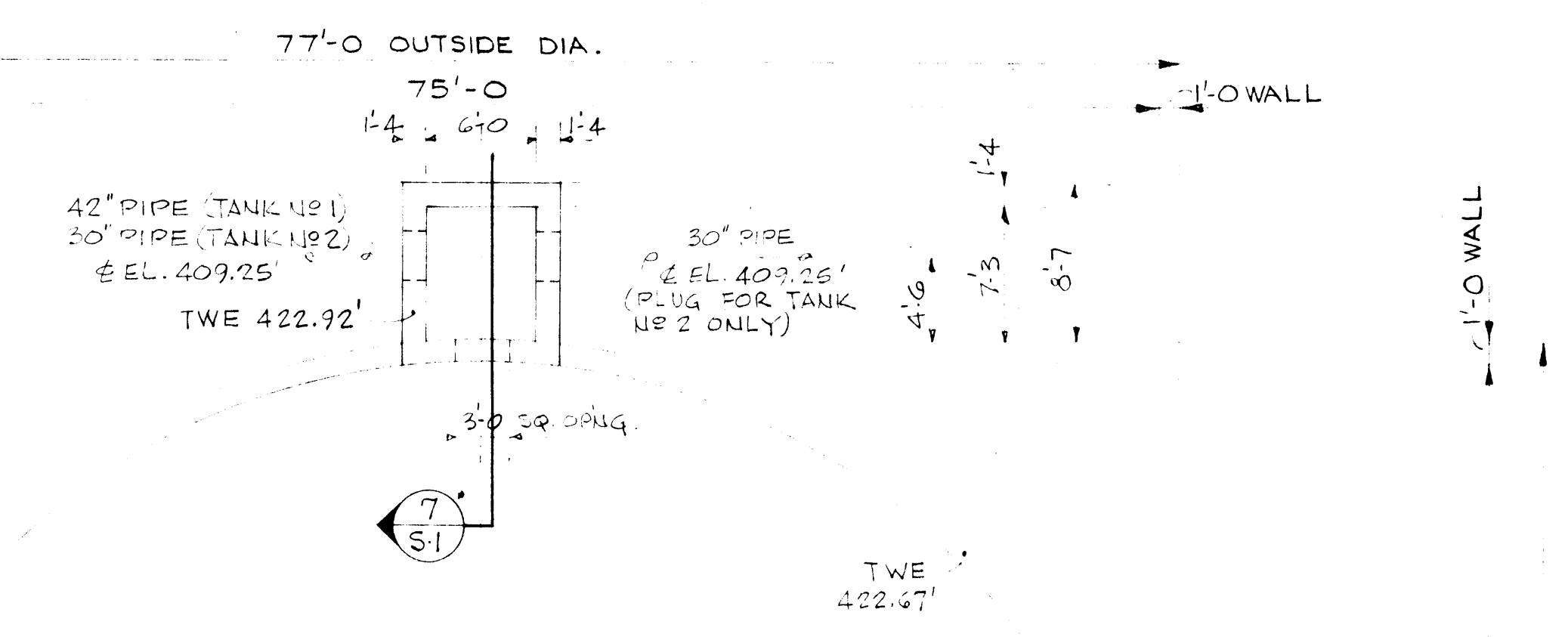
NOTE: INFLUENT STRUCTURE FOR TANK NO 2 ONLY



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



SECTION 3  
1/2" = 1'-0"

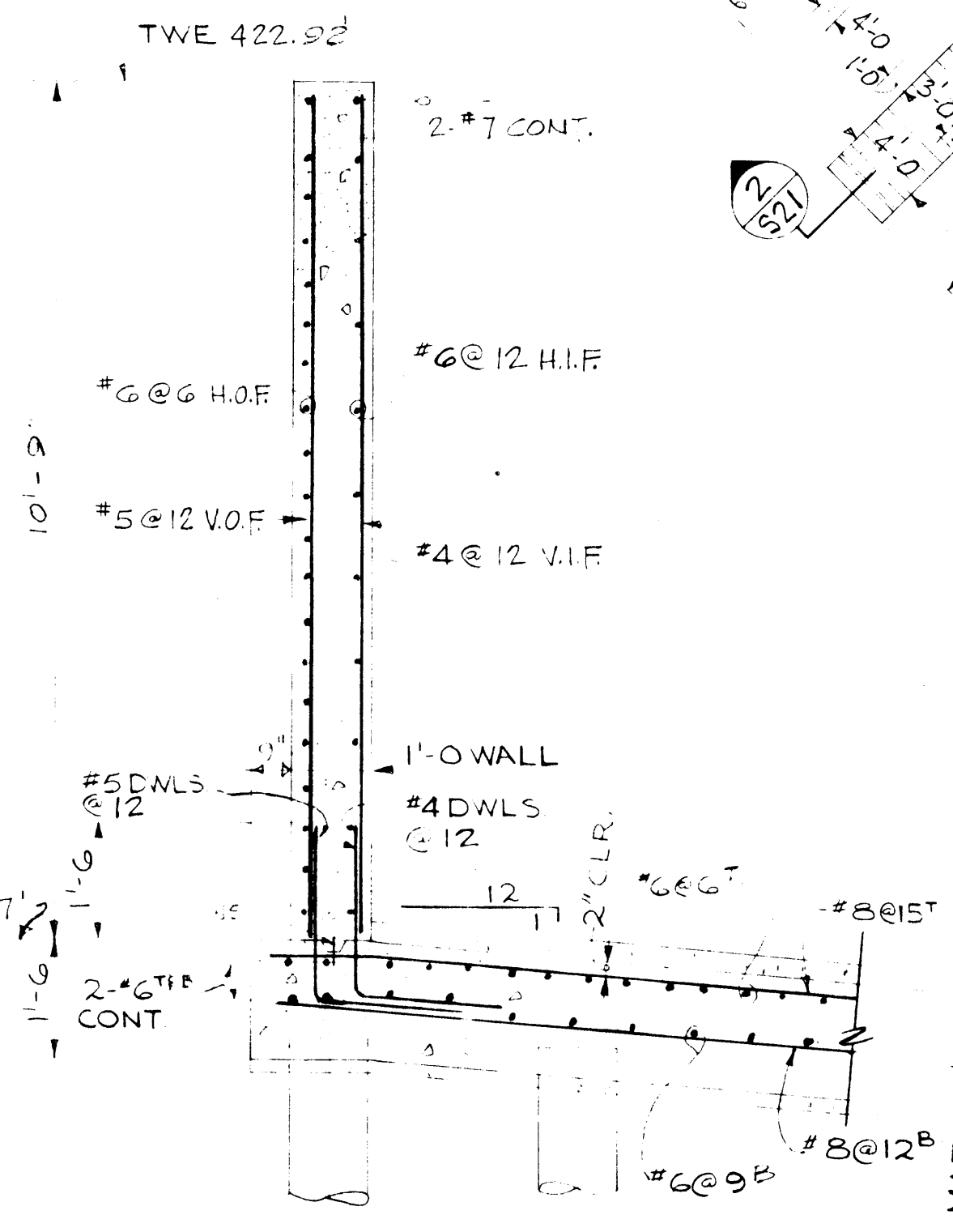


SECTION 1  
1/2" = 1'-0"

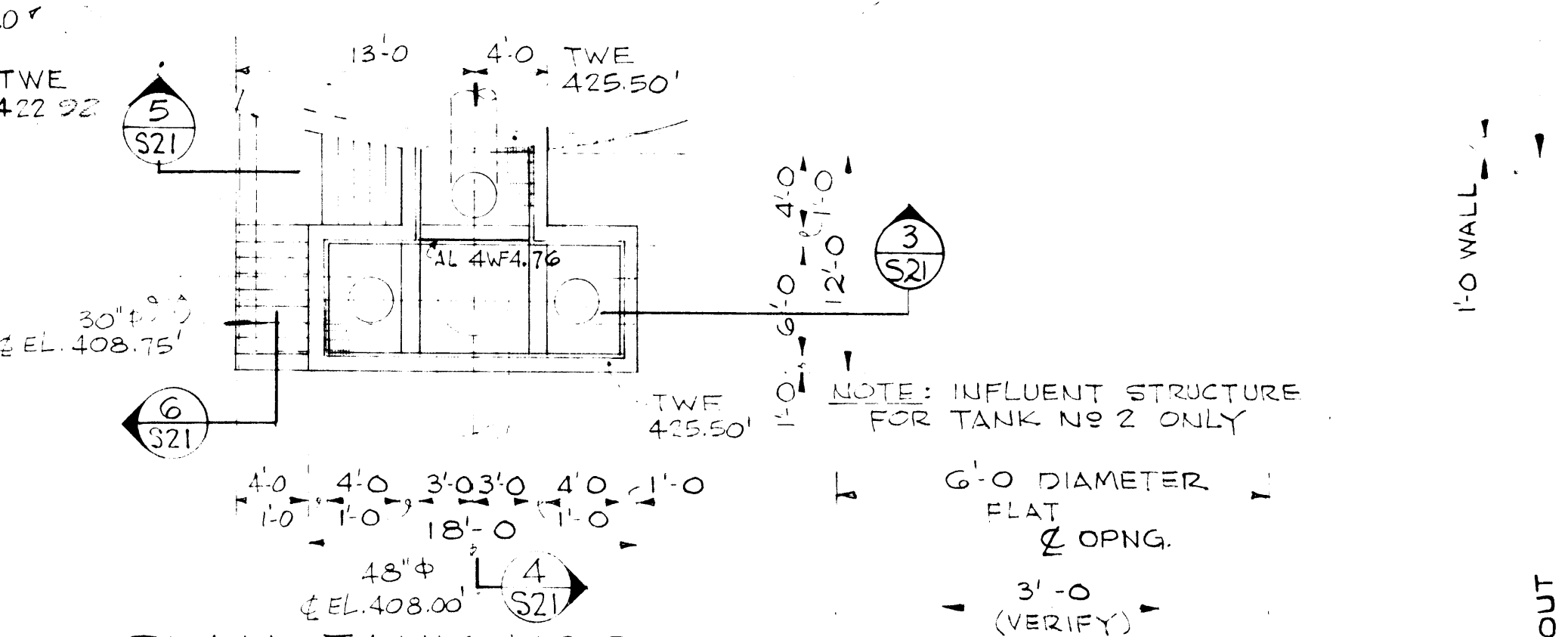
SLUDGE WITHDRAWAL PIT - SEE DWG.M-6 FOR DETAILS

BRIDGE TOP EL. 424.50'

1'-4" EL. VARIES FROM 424.50' TO 422.67'



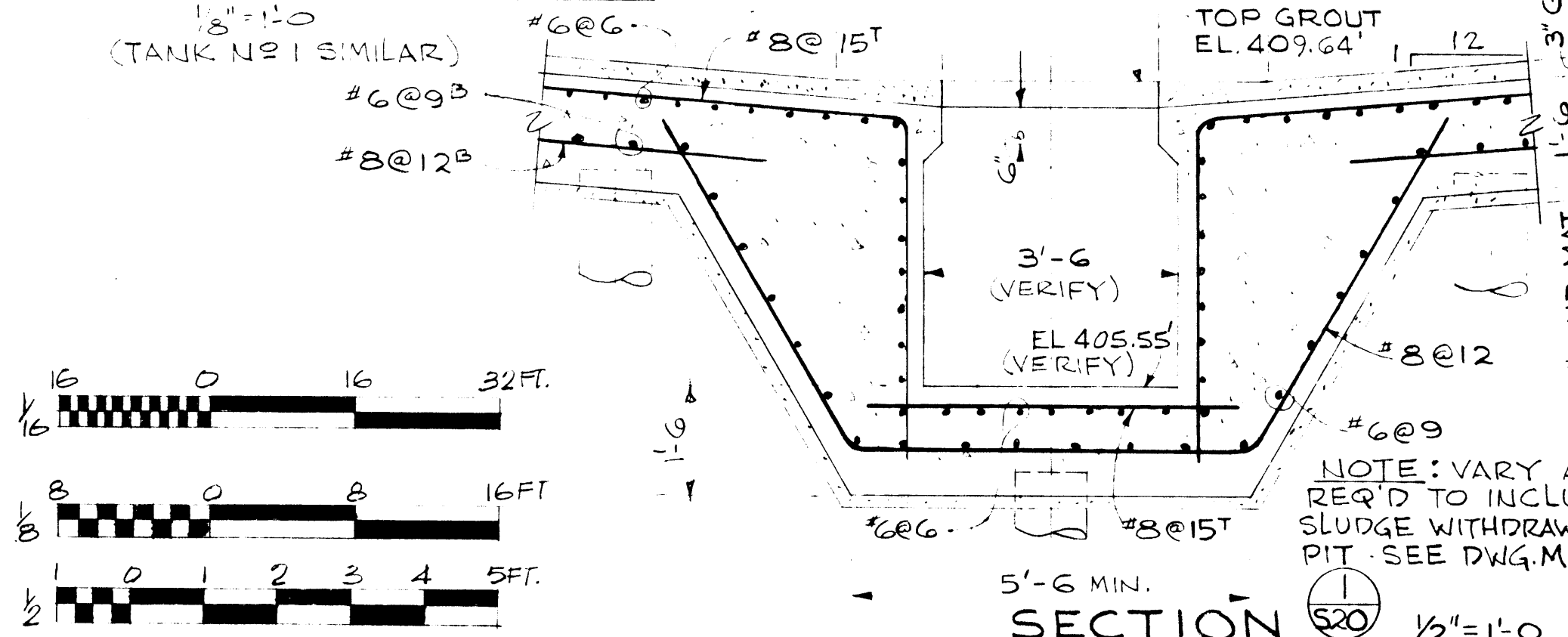
TYPICAL WALL DETAIL  
1/2" = 1'-0"



PLAN TANK NO 2  
1/8" = 1'-0"

NOTE: INFLUENT STRUCTURE FOR TANK NO 2 ONLY

6'-0" DIAMETER FLAT TOP OPNG. (VERIFY)



SECTION 5  
1/2" = 1'-0"

NOTE: VARY AS REQ'D TO INCLUDE SLUDGE WITHDRAWAL PIT - SEE DWG.M-6

JF 331  
JMB 7-7-72  
JMB 7-7-72  
WJP 7-7-72

IN CHARGE OF: TK  
DESIGNED BY: JS  
MADE BY: EG  
CHECKED BY: JS

PIPING PLAN - SETTLING TANK No. 1  
1/16" = 1'-0"

PIPING PLAN - SETTLING TANK No. 2  
1/16" = 1'-0"

AS BUILT

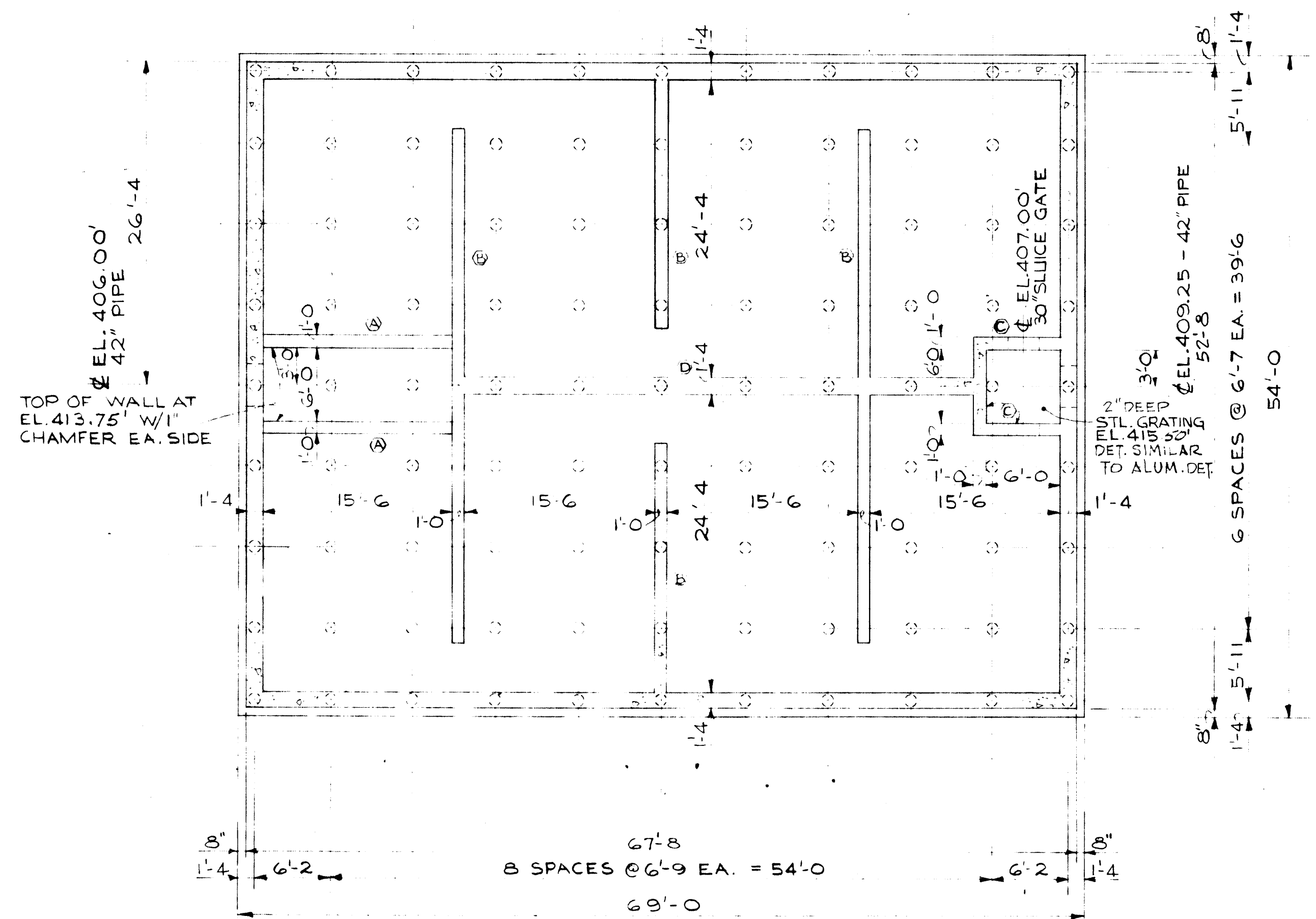
		ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT <b>SETTLING TANKS          PLAN, SECTIONS</b>	
		O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: AS NOTED FILE NO.: 115.149.35F
CONSULTING ARCHITECTS 120 7/7/72 115.149.35F		REVISIONS	



**INTERIOR WALL REINF. - CHLORINE TANK**

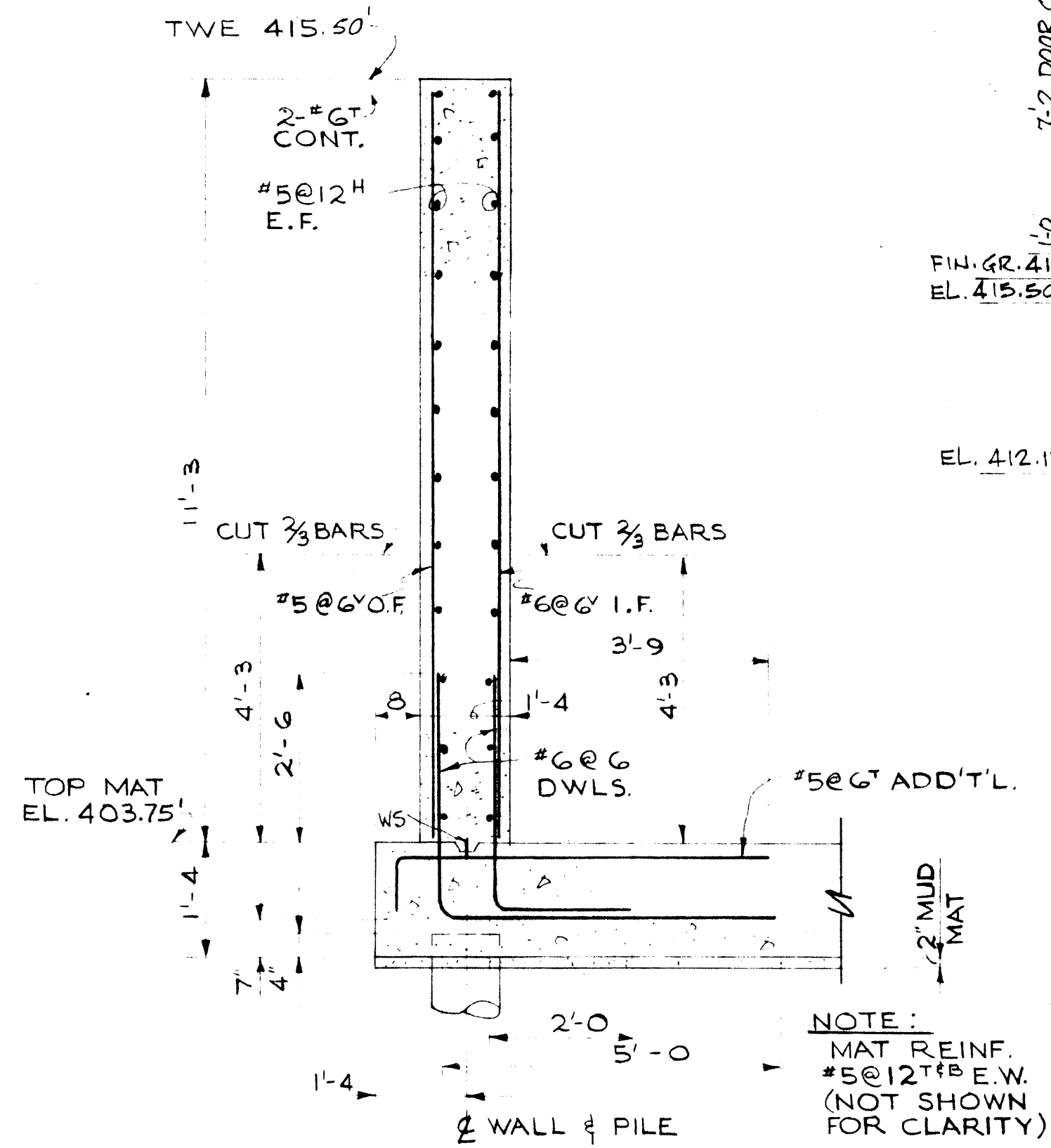
TYPE	THICKNESS	REINFORCING - EA. FACE
(A)	12"	#7@12V & #4@12H
(B)	12"	#4@12V & #4@12H
(C)	12"	#4@12V & #5@12H
(D)	16"	#7@12V & #5@12H

NOTE:  
DWLS. E.F. SAME SIZE & SPACING AS VERT. REINF.

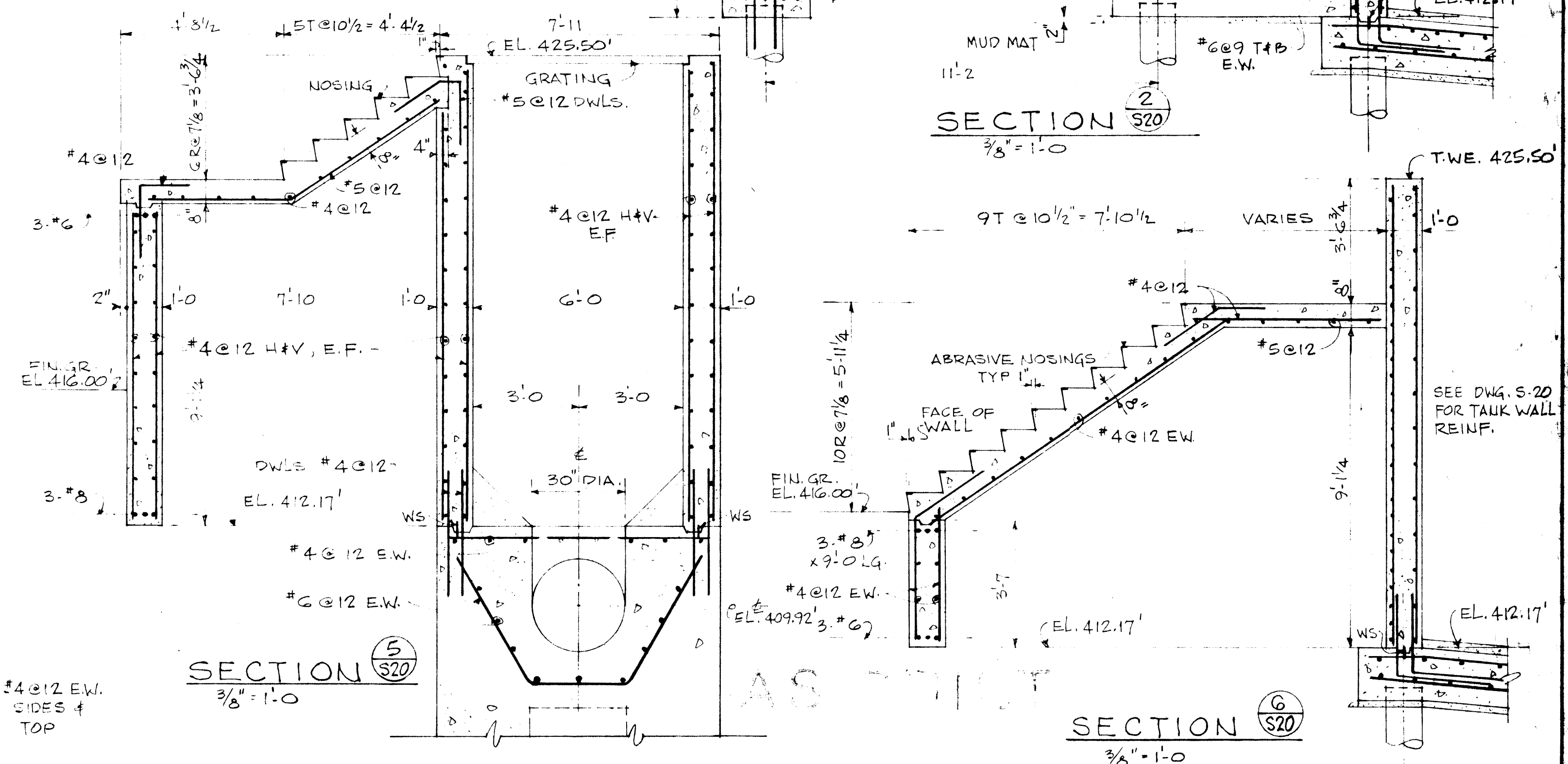
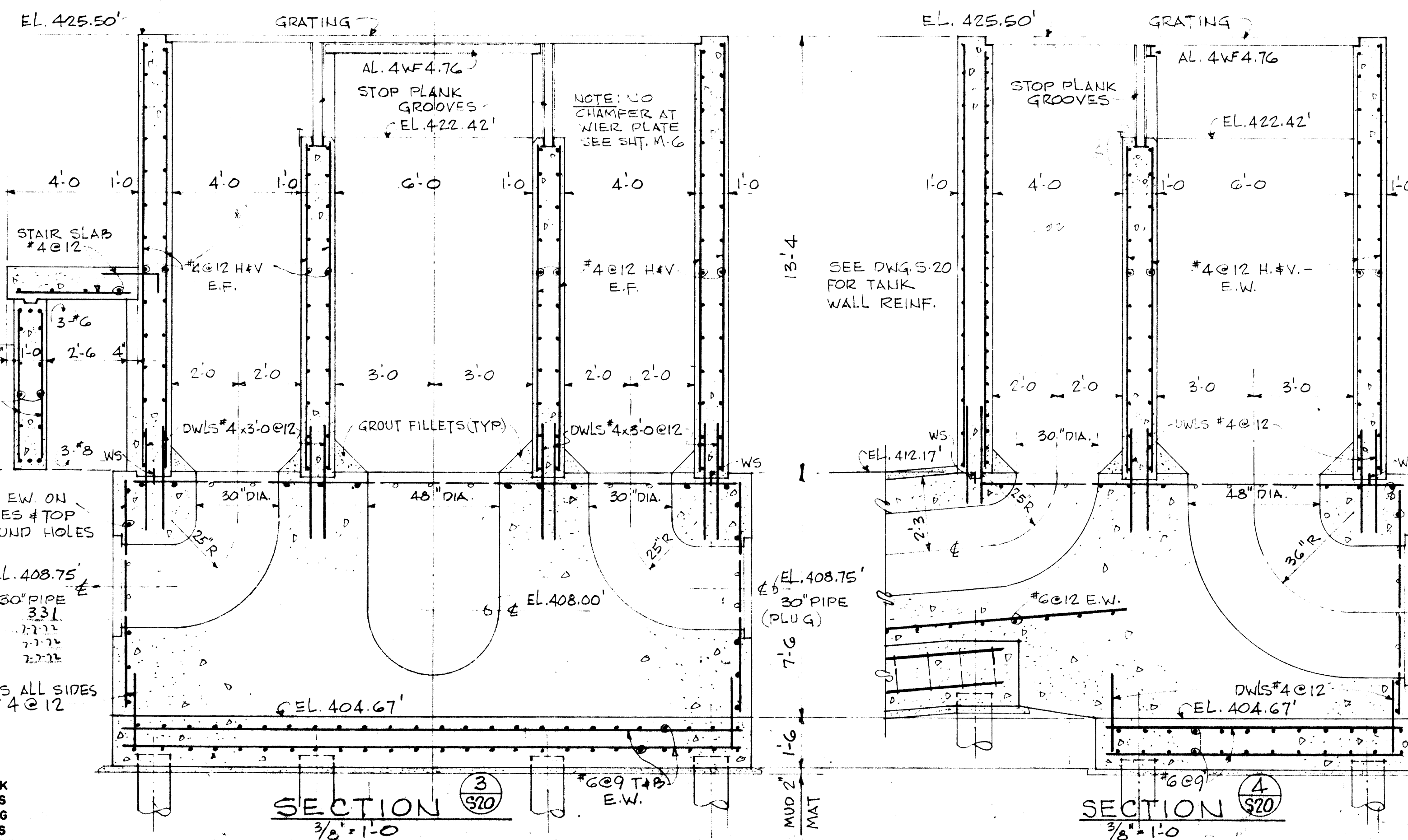
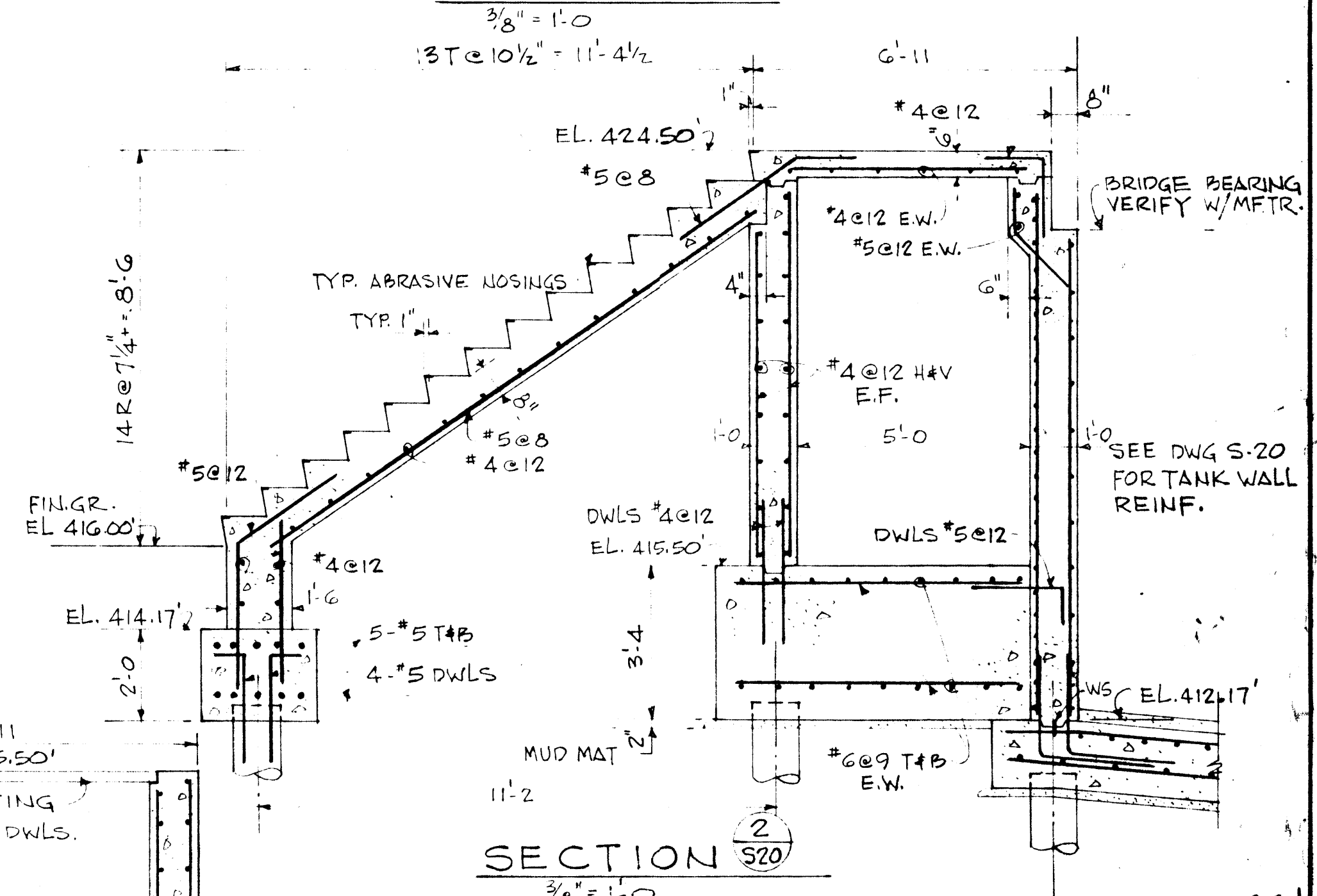
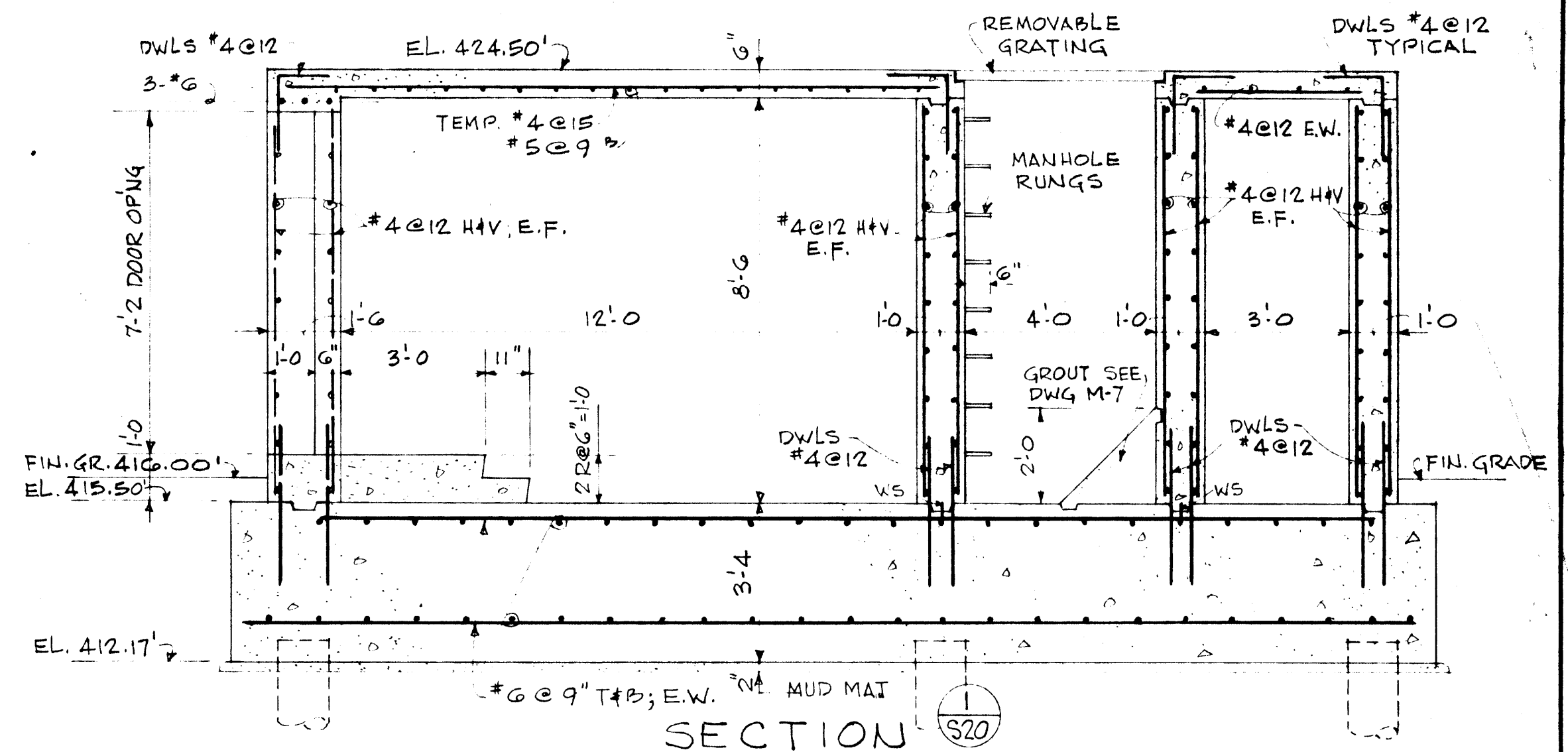


**CHLORINE CONTACT TANK - PLAN**

NOTES:  
1. TOP OF WALLS AT EL. 415.50' UNLESS OTHERWISE NOTED.  
2. SEE SCHED. ABOVE FOR INTERIOR WALL REINF.



**TYPICAL EXTERIOR WALL SECTION - CHLORINE TANK -**



ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT

**TREATMENT PLANT  
CHLORINE TANK  
PLAN, SECTIONS**

O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
SYRACUSE, NEW YORK

DATE: FEBRUARY 14, 1968  
SCALE: AS NOTED  
FILE NO.: 15199-36 F

MACKNIGHT - KIRMISE - FRENCH & SIZING  
CONSULTING ARCHITECTS  
6441 BURNS ROAD  
SYRACUSE, N.Y. 13209

487/77-  
1/5/68

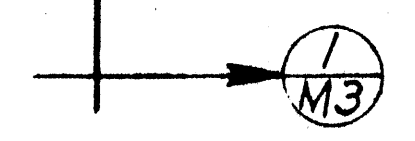
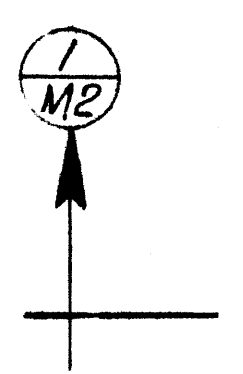
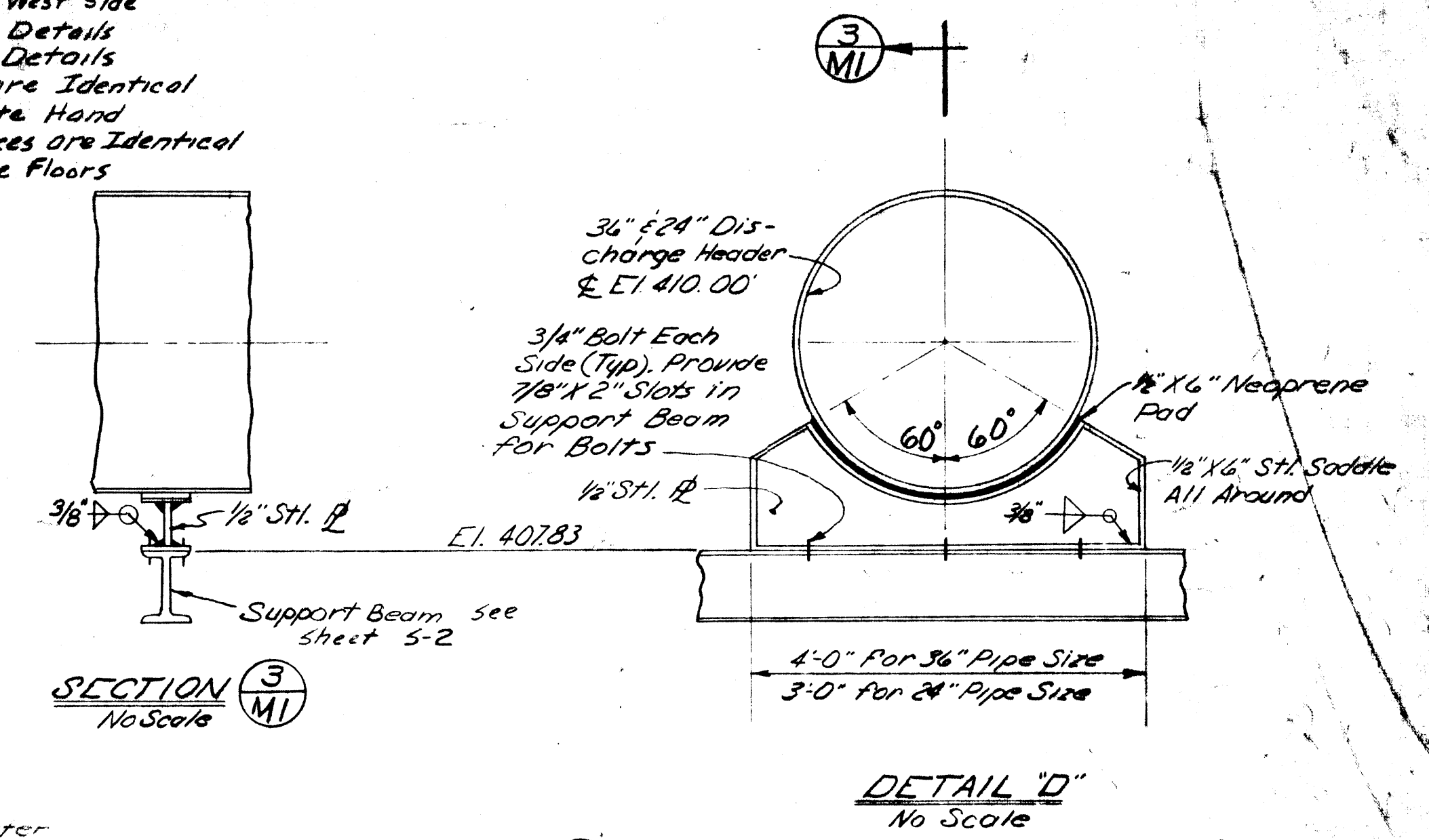
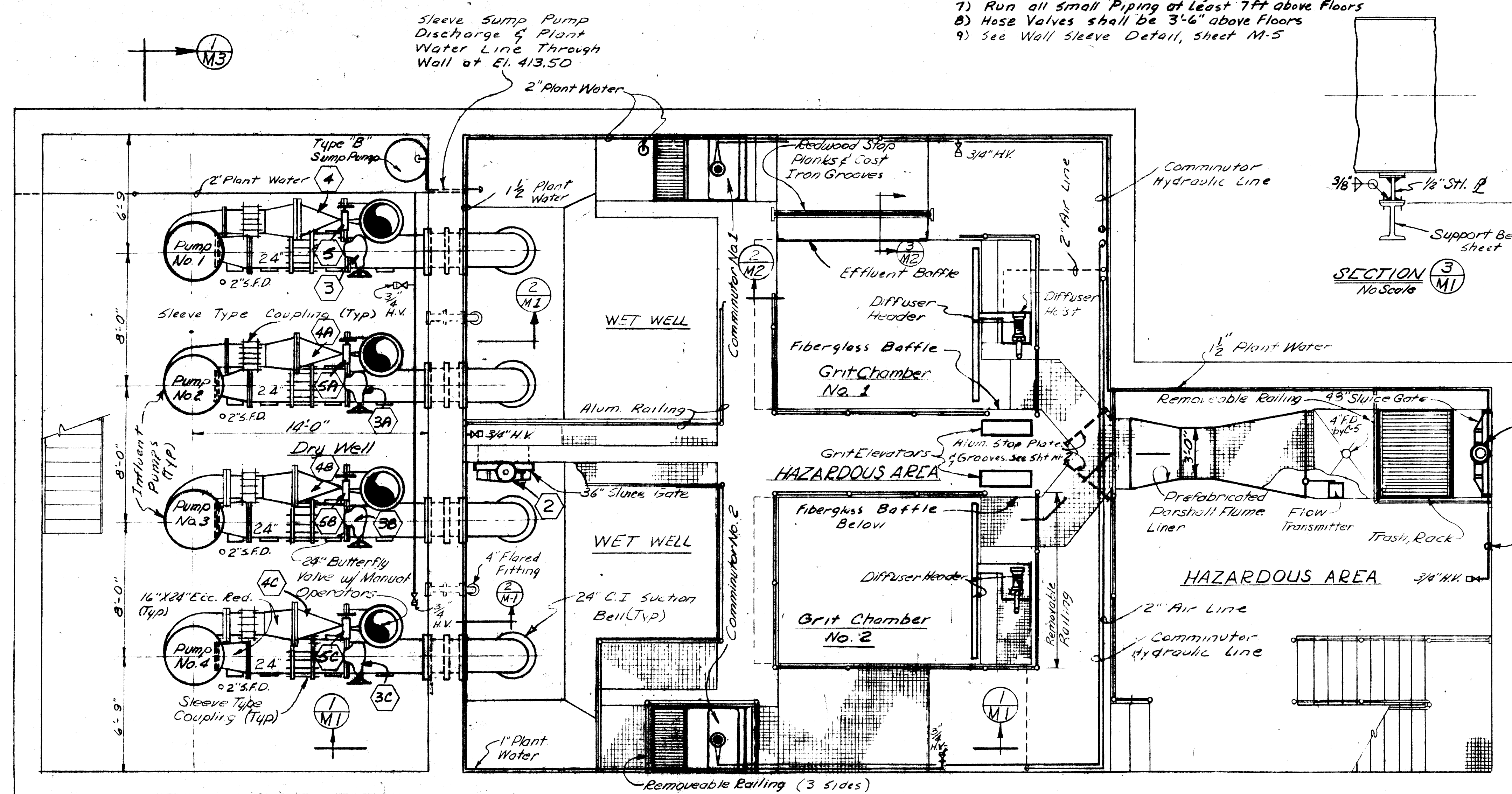
REVISIONS

IN CHARGE OF: TK  
DESIGNED BY: JS  
MADE BY: EG  
CHECKED BY: JS

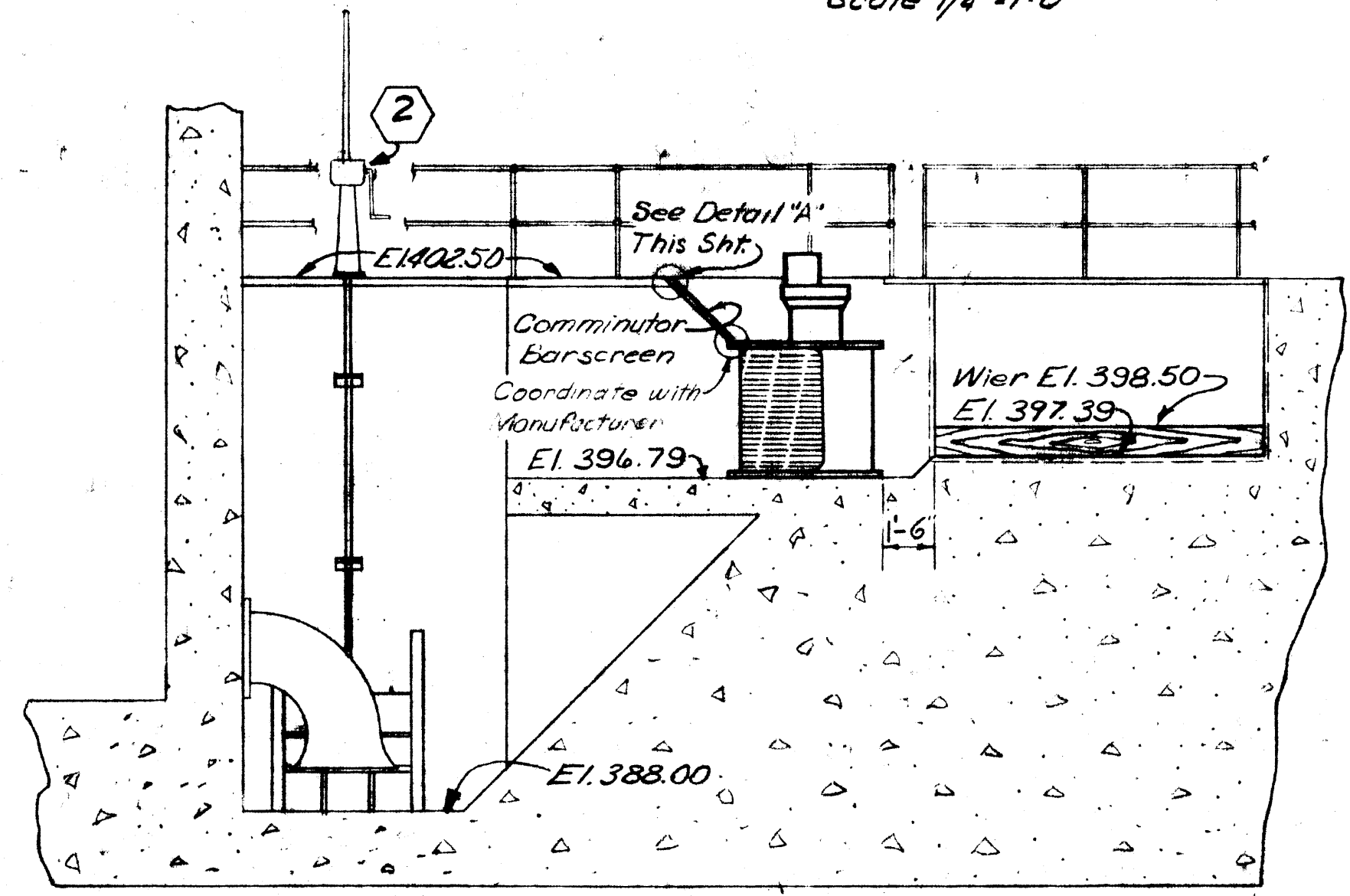
S-21



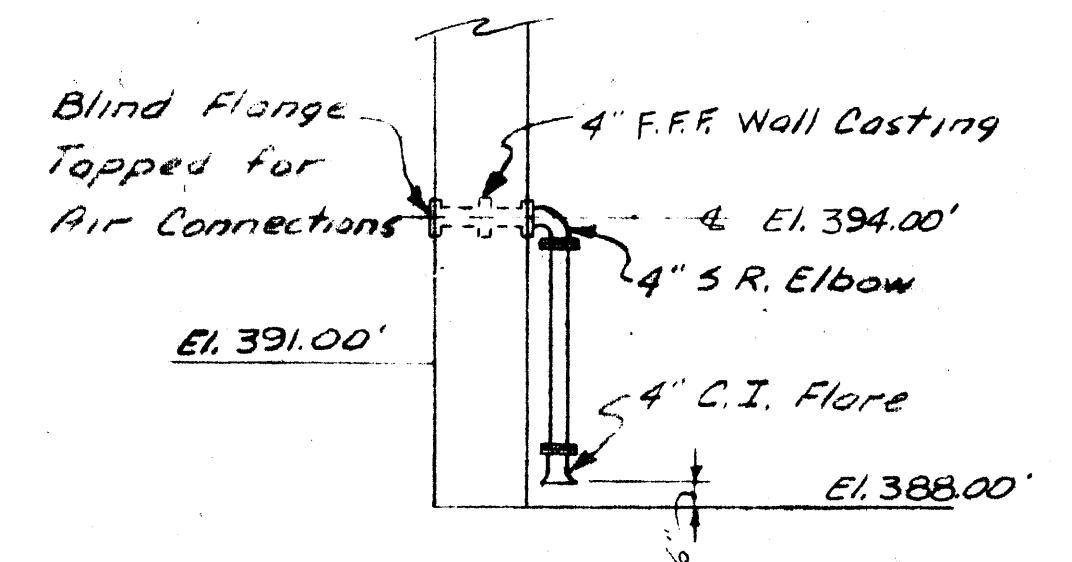
- Notes:
- 1) Portion of Railings & Grating on East Side of Building not shown. Layout similar to West Side
  - 2) See Structural Drawings for Grating Details
  - 3) See Architectural Drawings for Railing Details
  - 4) All Pumps Including Fittings & Accessories are Identical
  - 5) Grit Chambers 1 & 2, Similar, Opposite Hand
  - 6) Comminutors 1 & 2 Including Appurtenances are Identical
  - 7) Run all small Piping at Least 7' above Floors
  - 8) Hose Valves shall be 3'-6" above Floors
  - 9) See Wall Sleeve Detail, sheet M-5



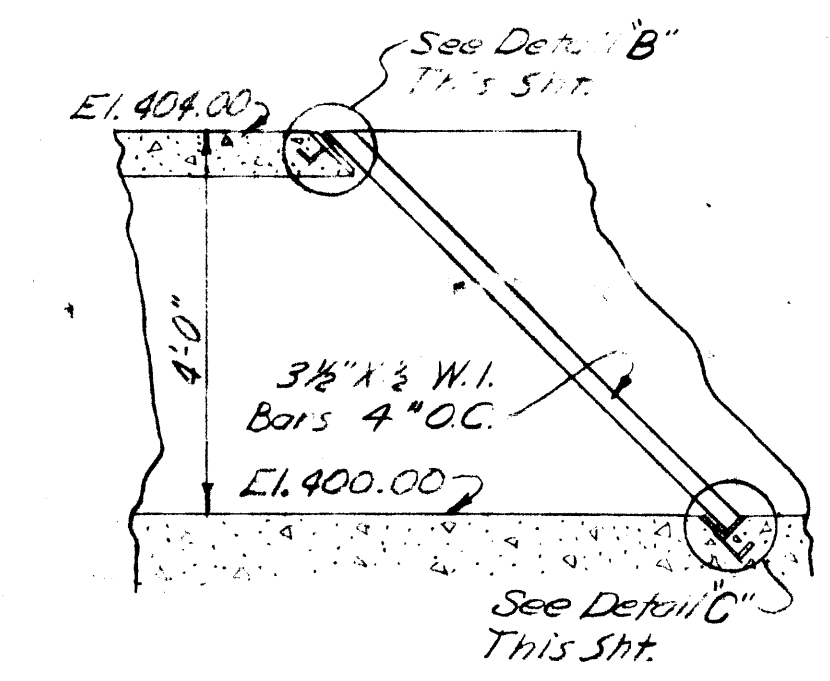
**BASEMENT PLAN  
INFLUENT PUMP STATION**  
Scale 1/4"=1'-0"



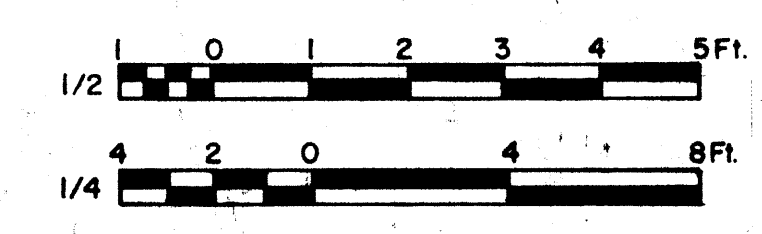
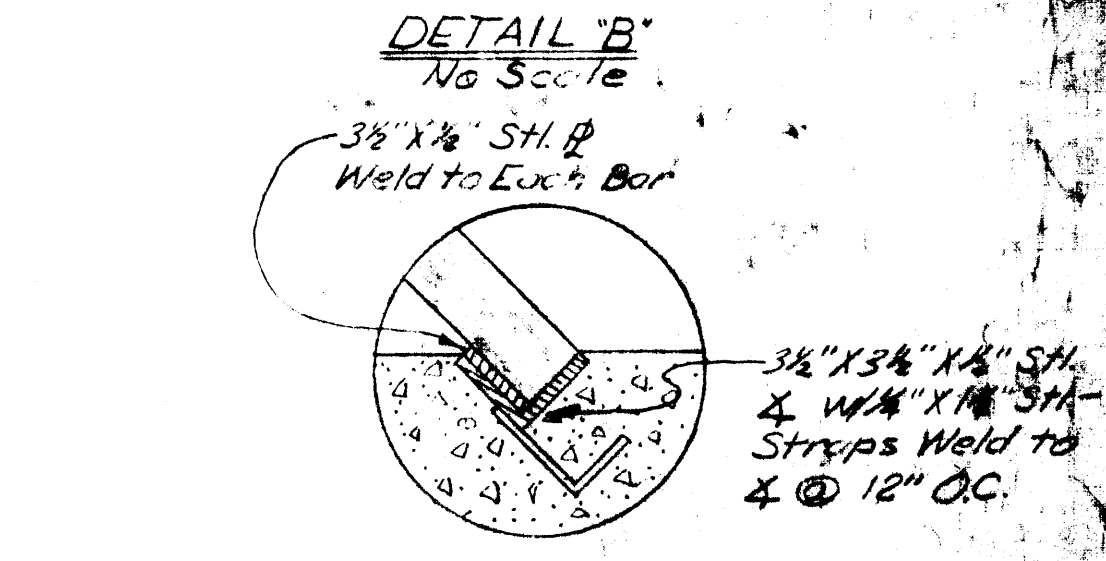
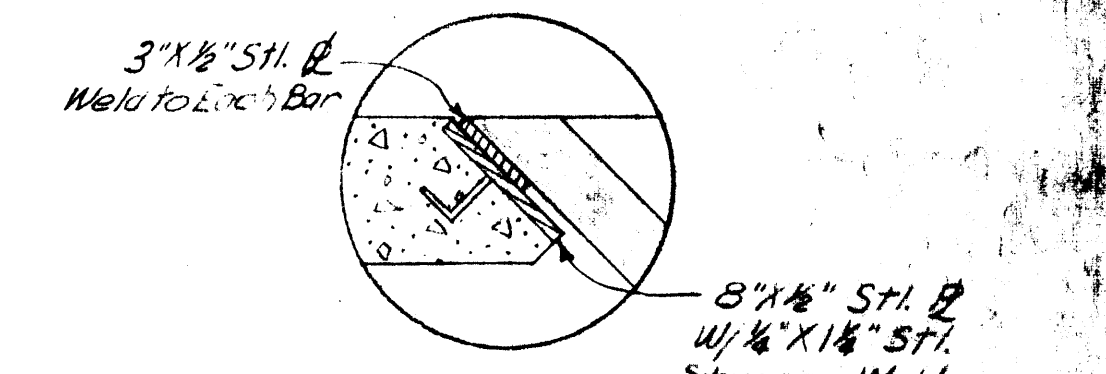
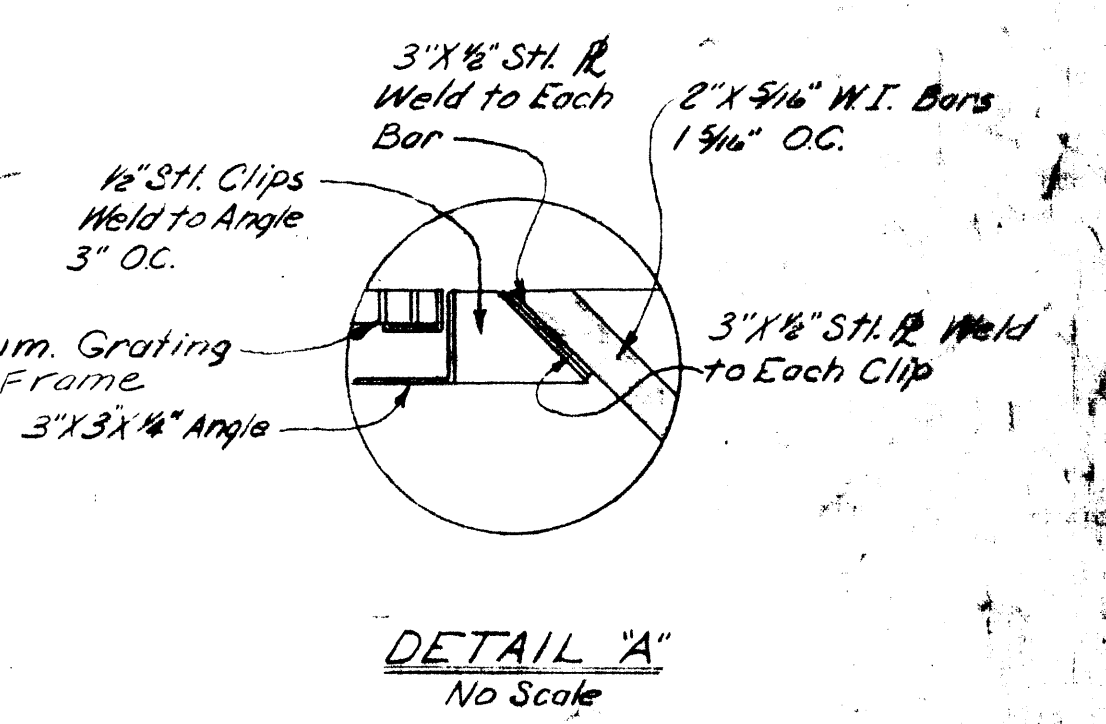
**SECTION B**  
Scale 1/4"=1'-0"



**SECTION C**  
Scale 1/4"=1'-0"



**TRASH RACK DETAIL**  
Scale 1/2"=1'-0"



AS SHOWN

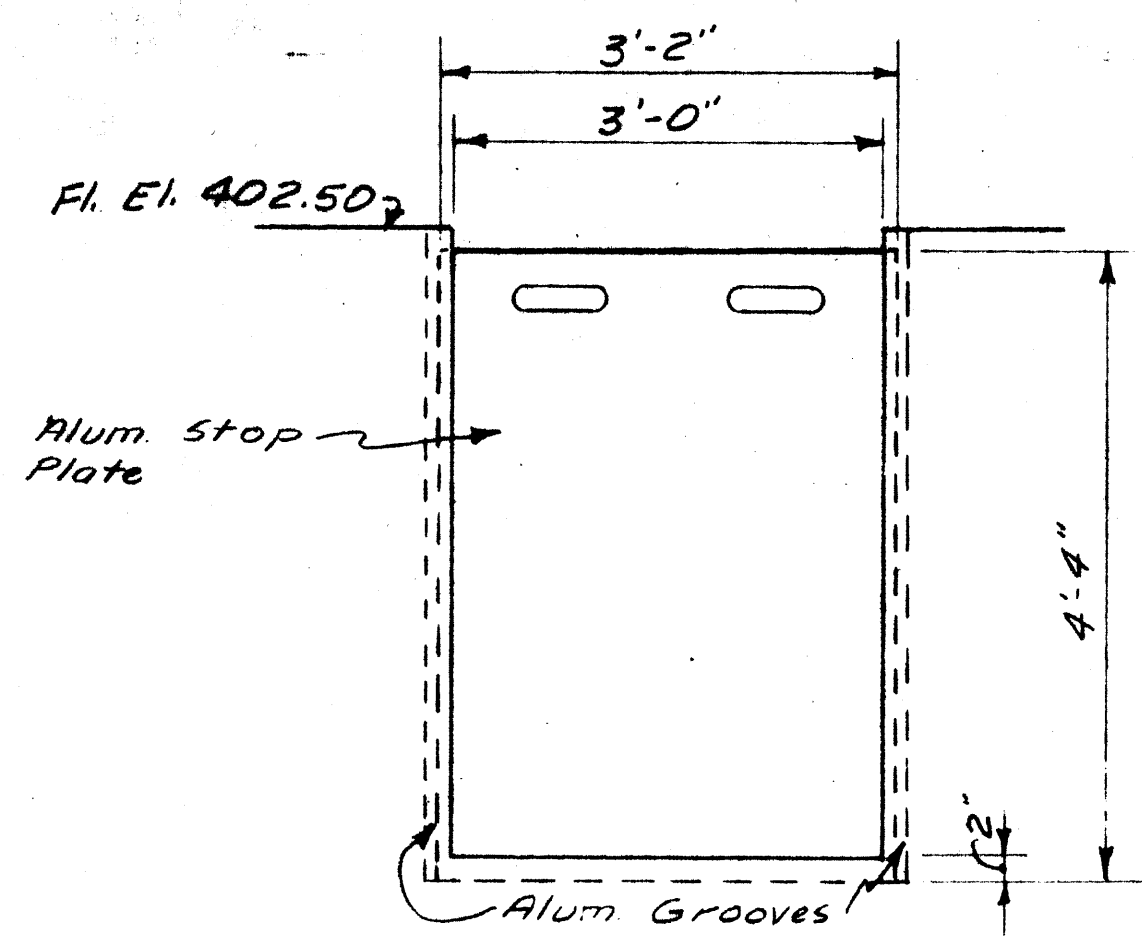
DESIGNED BY	JMB	DATE	2-7-72
CHECKED BY	MJH	DATE	2-7-72
IN CHARGE	JDM	DATE	2-7-72

IN CHARGE OF: JDM  
DESIGNED BY: WJP  
CHECKED BY: MJH  
DATE: FEBRUARY 14, 1968

Professional Engineer N.Y.S.P.E. LIC. NO. 3764

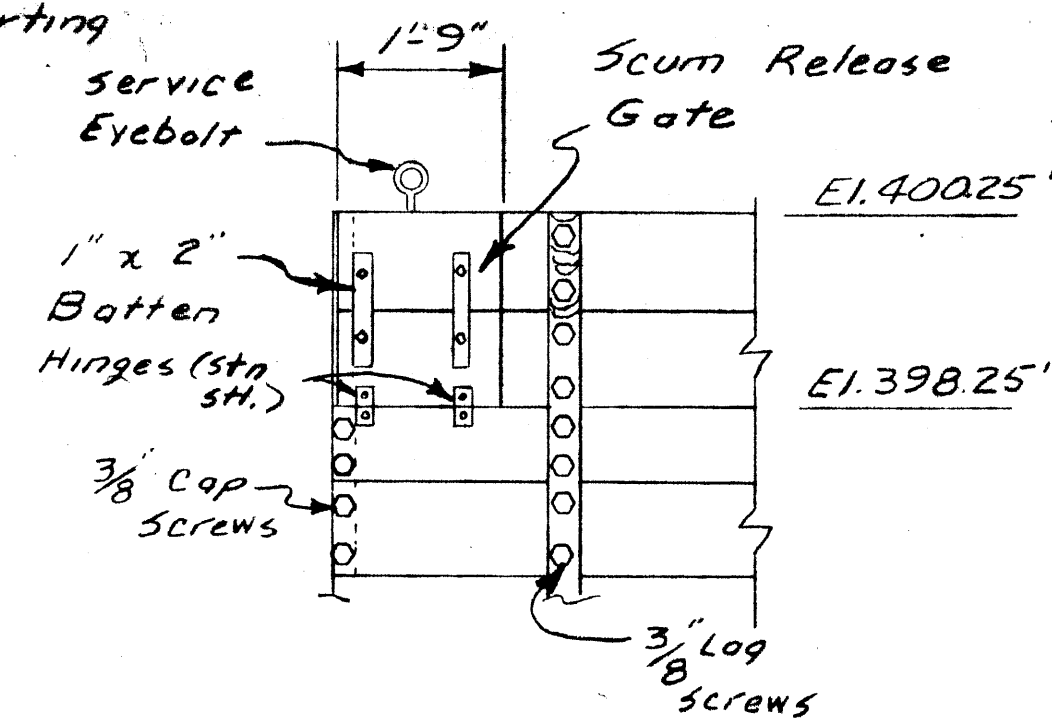
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		
<b>INFLUENT PUMP STATION BASEMENT PLAN</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS 100 W. 42nd St. New York, N.Y. 10018	DATE: FEBRUARY 14, 1968 SCALE: AS SHOWN FILE NO.: 15149-SIF	



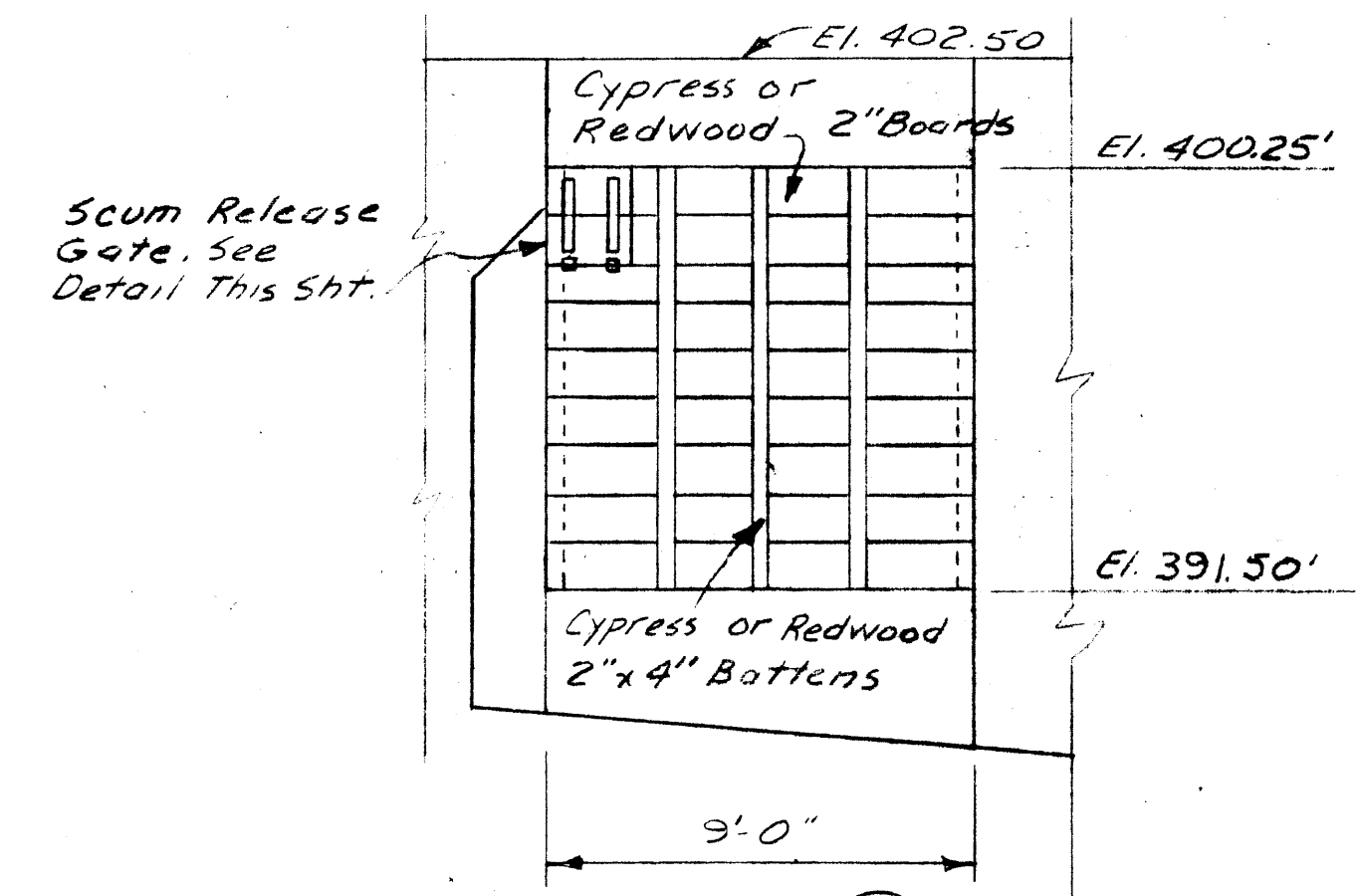


STOP PLATE DETAIL  
Scale:  $\frac{3}{4}$ " = 1'-0"

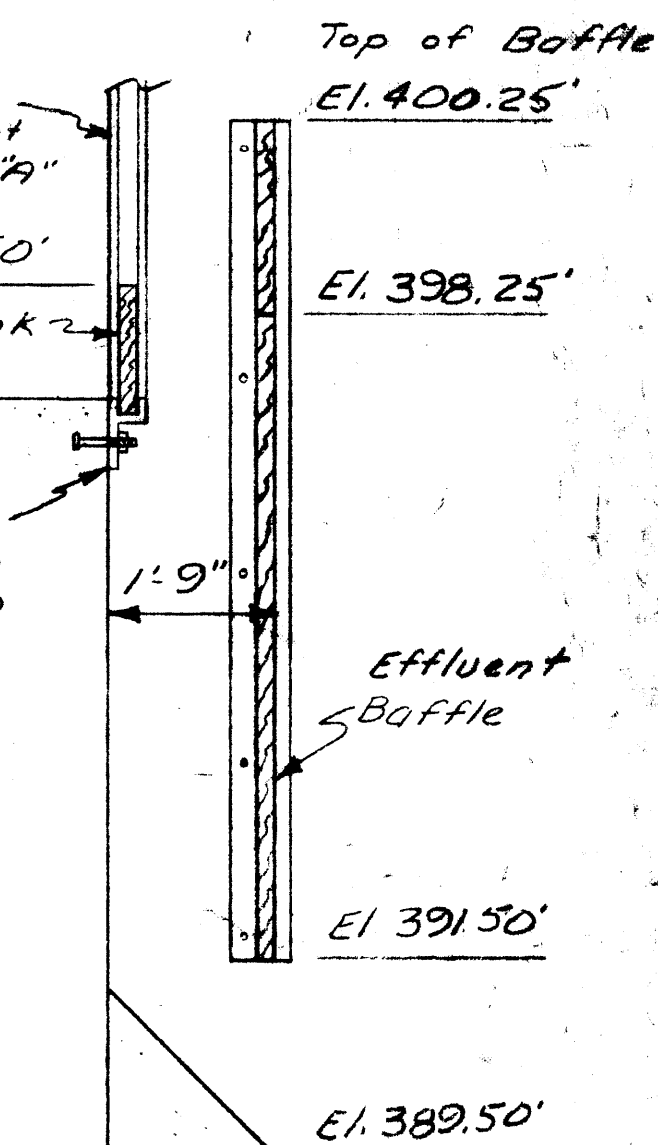
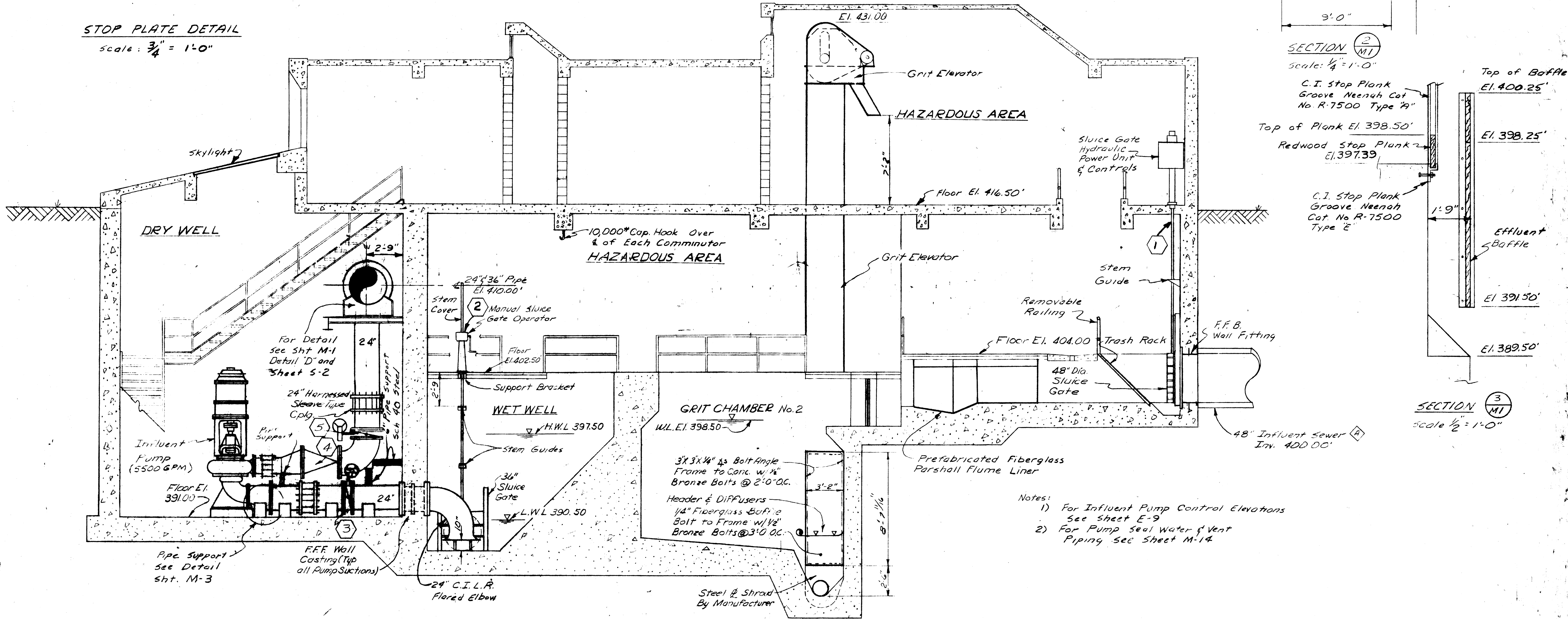
Note:  
The Angles supporting  
the Grit Chamber  
Effluent Baffle  
shall be  $5\frac{1}{2} \times 5\frac{1}{2}$ "



SCUM RELEASE GATE DETAIL  
Scale:  $\frac{1}{2}$ " = 1'-0"



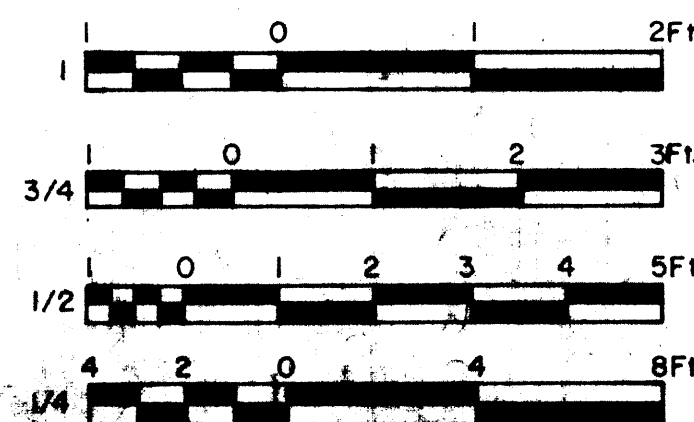
SECTION 2/M1  
Scale:  $\frac{1}{4}$ " = 1'-0"



SECTION 3/M1  
Scale:  $\frac{1}{2}$ " = 1'-0"

- Notes:
- 1) For Influent Pump Control Elevations See Sheet E-9
  - 2) For Pump seal water & Vent Piping See Sheet M-14

SECTION 1/M1  
Scale:  $\frac{1}{4}$ " = 1'-0"



AS BUILT

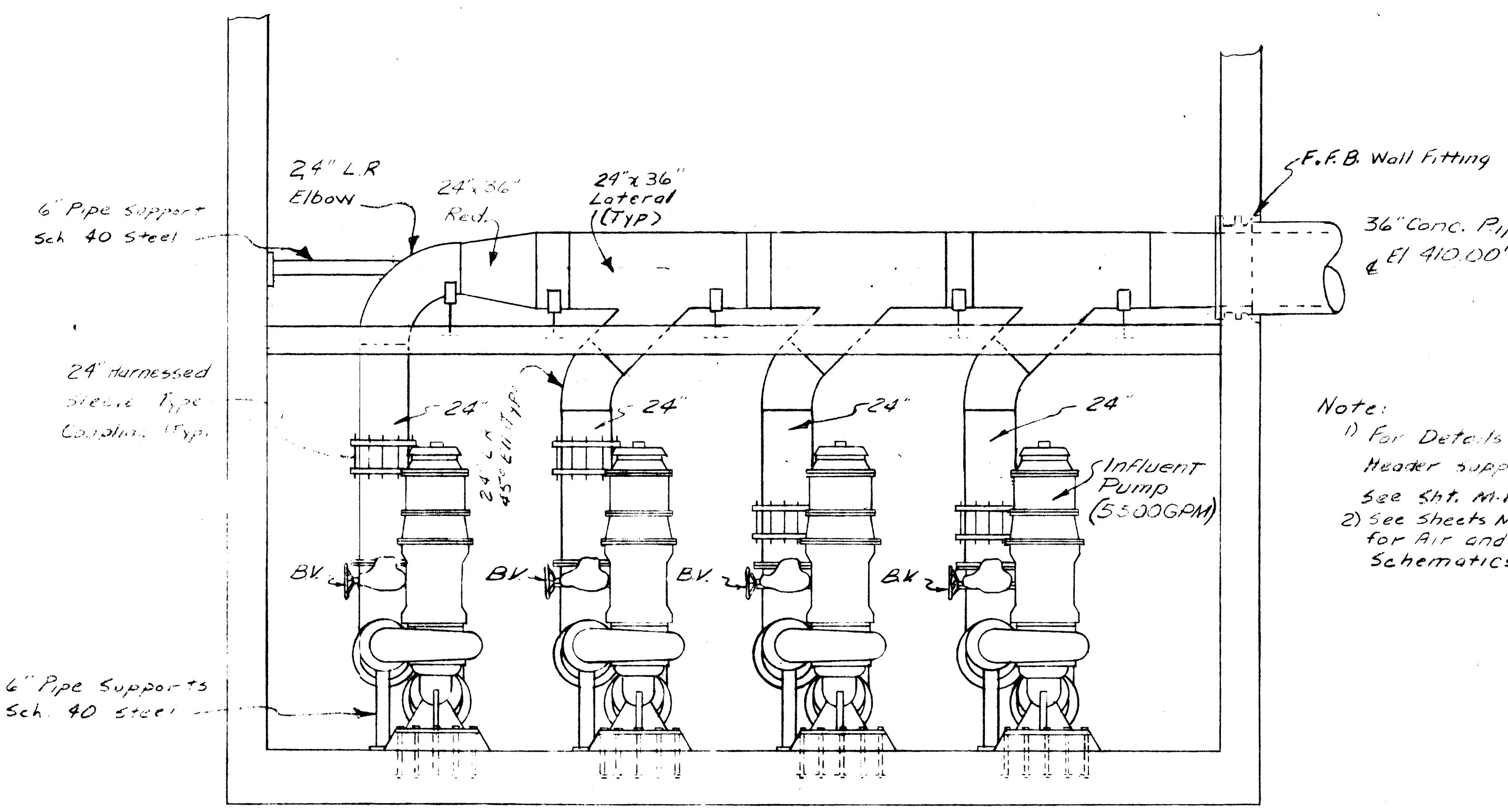
331  
Date of Issue: 12-21-66  
Checked by: WJP  
Drawn by: WJP

Checked by: JDM  
Drawn by: WJP  
Date: 12-21-66

James A. G. [Signature]  
Professional Engineer, License No. 39764

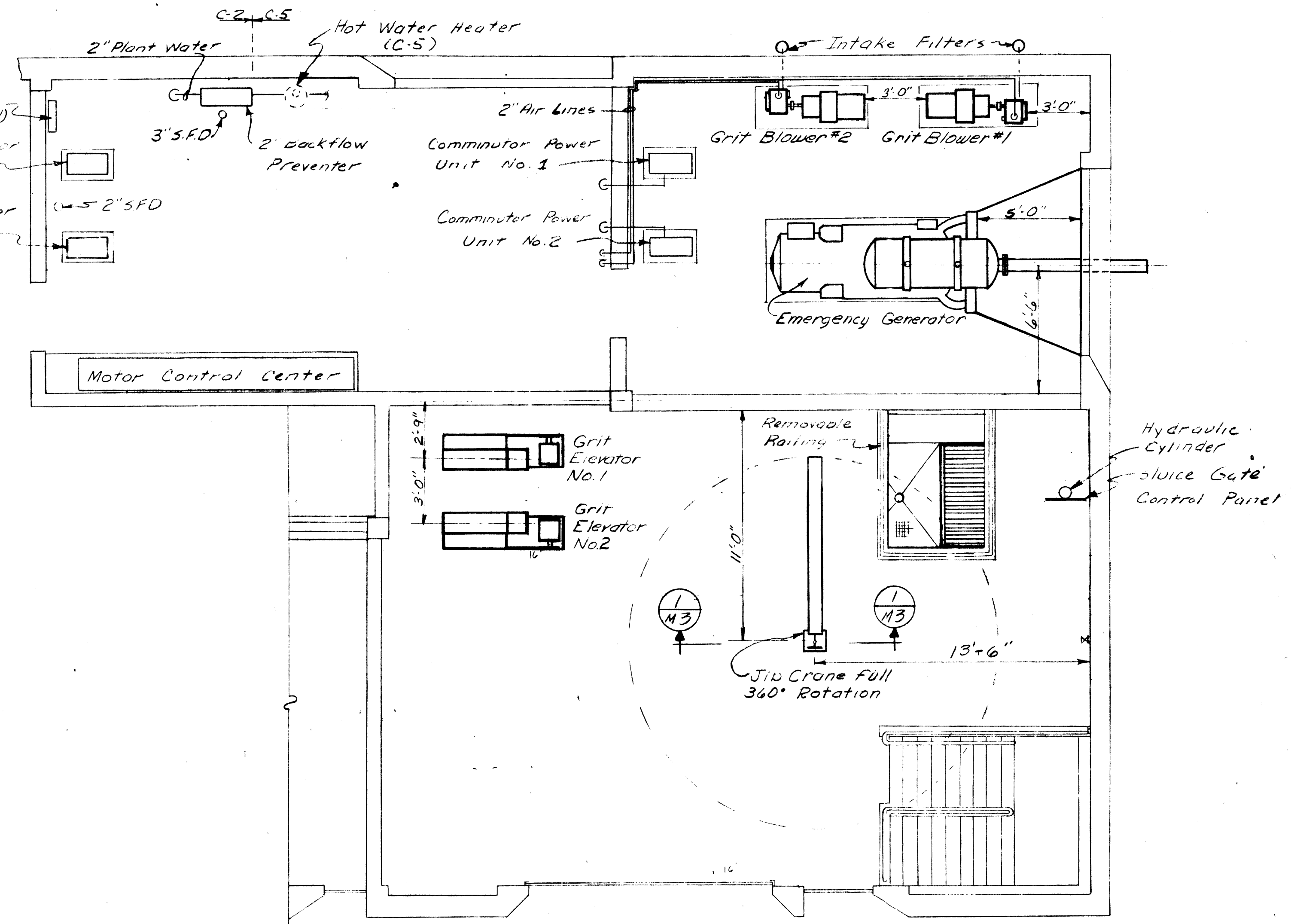
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT <b>INFLUENT PUMP STATION SECTION</b>		
<b>O'BRIEN &amp; GERE</b> CONSULTING ENGINEERS & LAND SURVEYORS 100 N. W. 10th St., Buffalo, N.Y. 14203		
DATE: FEBRUARY 14, 1968	SCALE: AS SHOWN	FILE NO.: 1229-92F



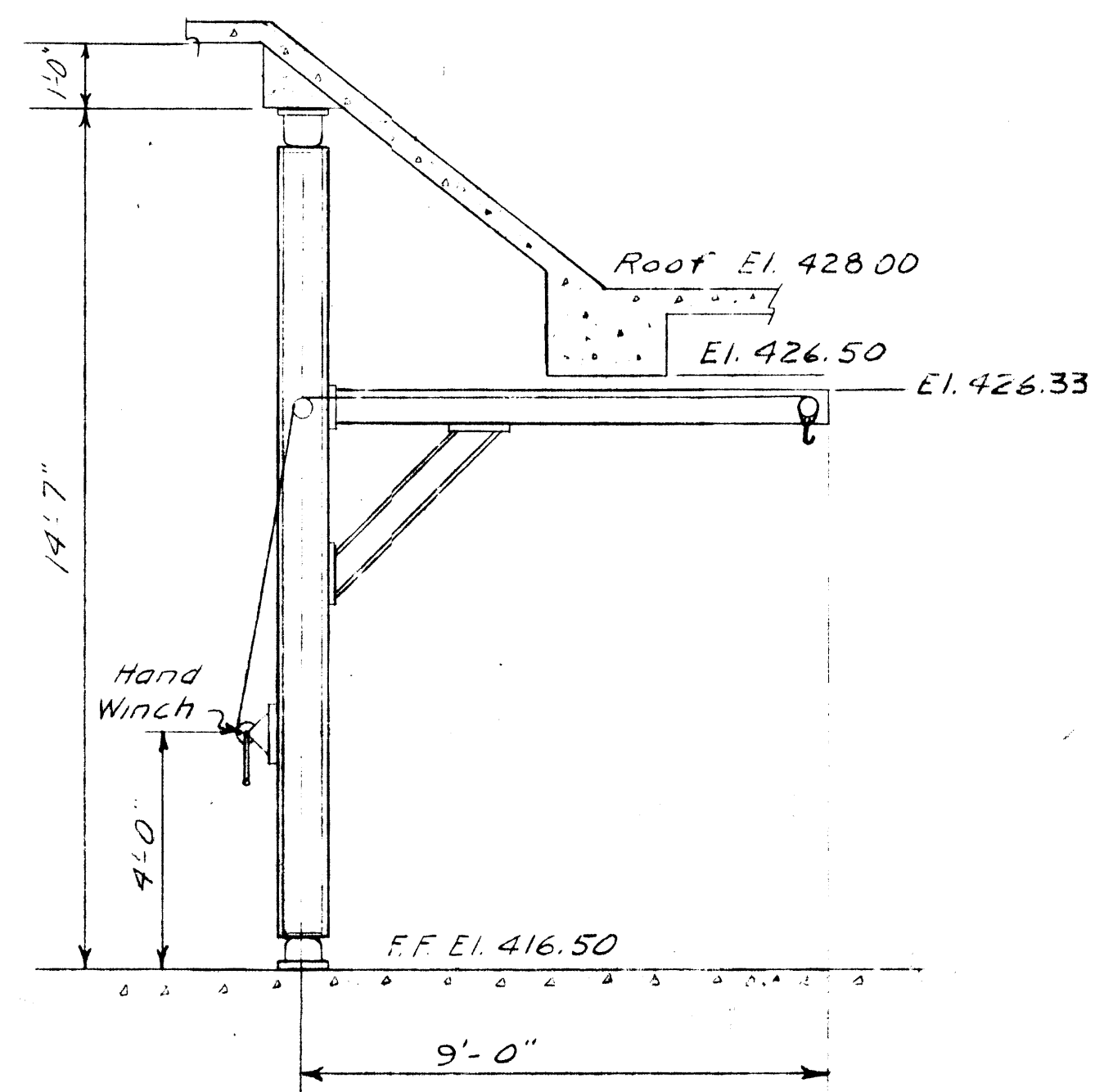


SECTION I  
Scale 1/4" = 1'-0"

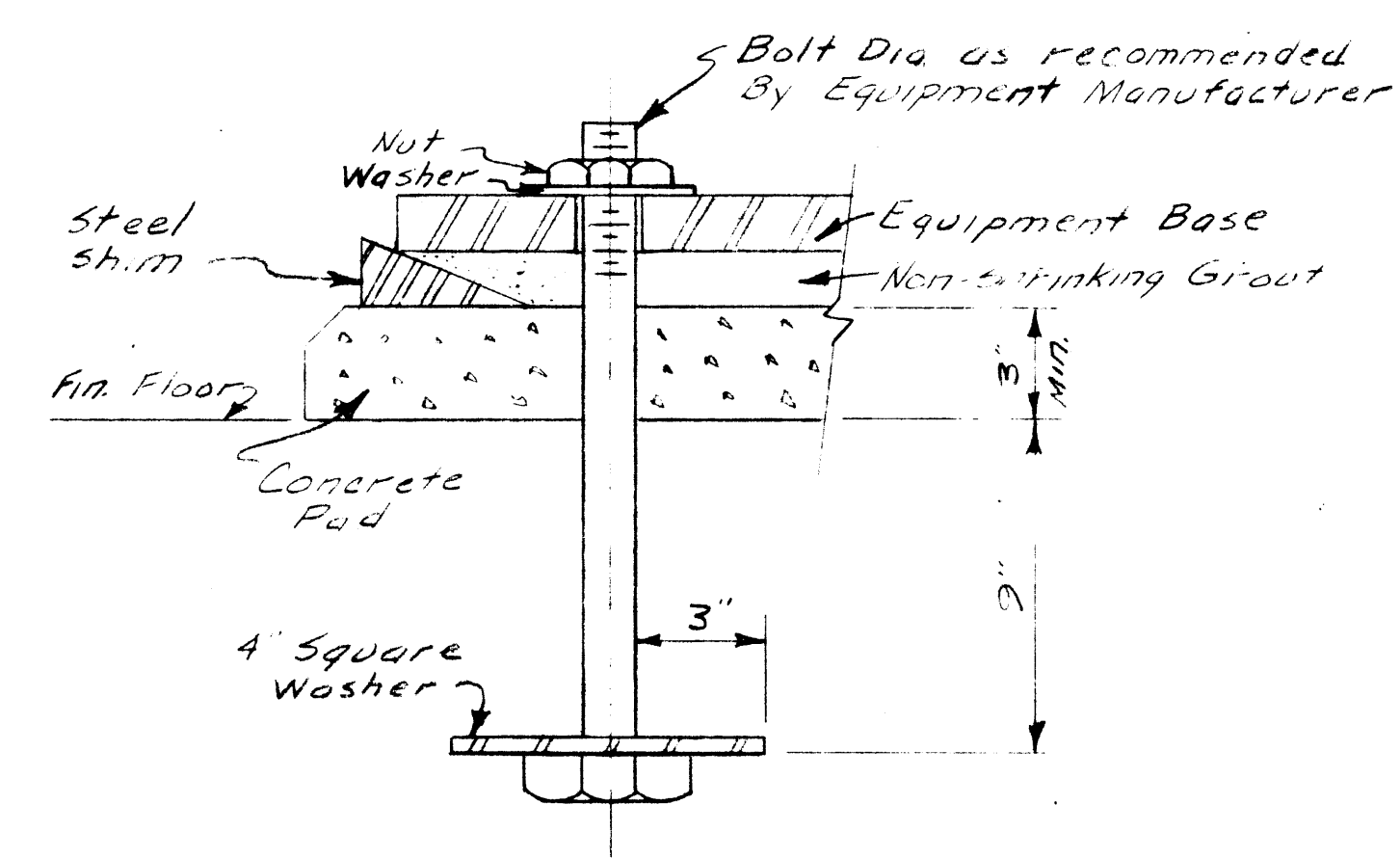
Note:  
1) For Details of Header supports see Sht. M-15 S-2  
2) See sheets M-14 & M-15 for Air and Water Schematics



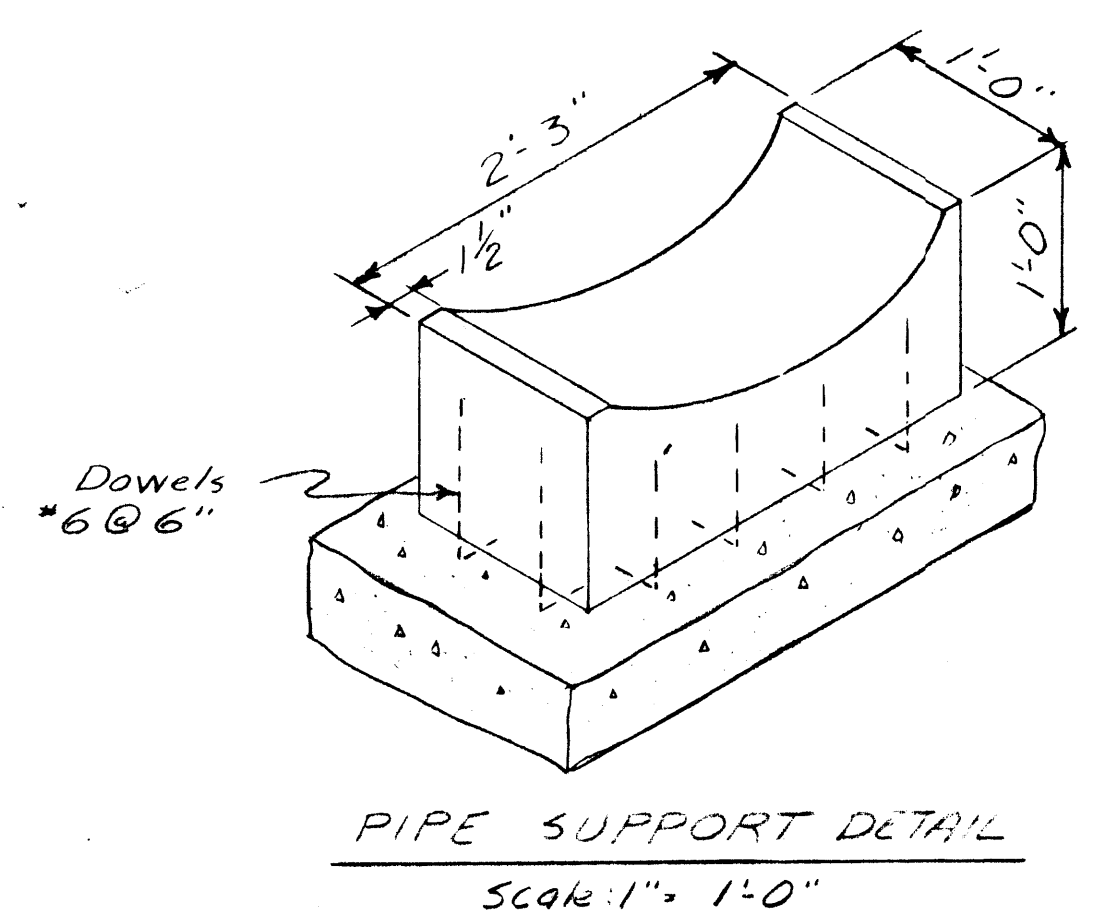
INFLUENT PUMP STATION  
PARTIAL PLAN  
FIRST FLOOR  
Scale 1/4" = 1'-0"



SECTION M3  
Scale: 3/8" = 1'-0"



TYPICAL ANCHOR BOLT DETAIL  
No Scale



PIPE SUPPORT DETAIL  
Scale: 1" = 1'-0"

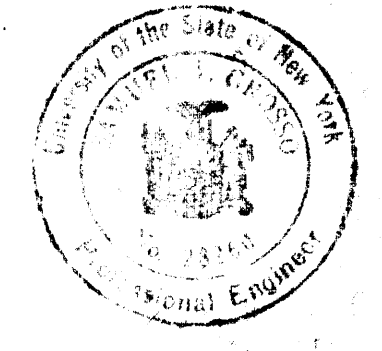
AS BUILT



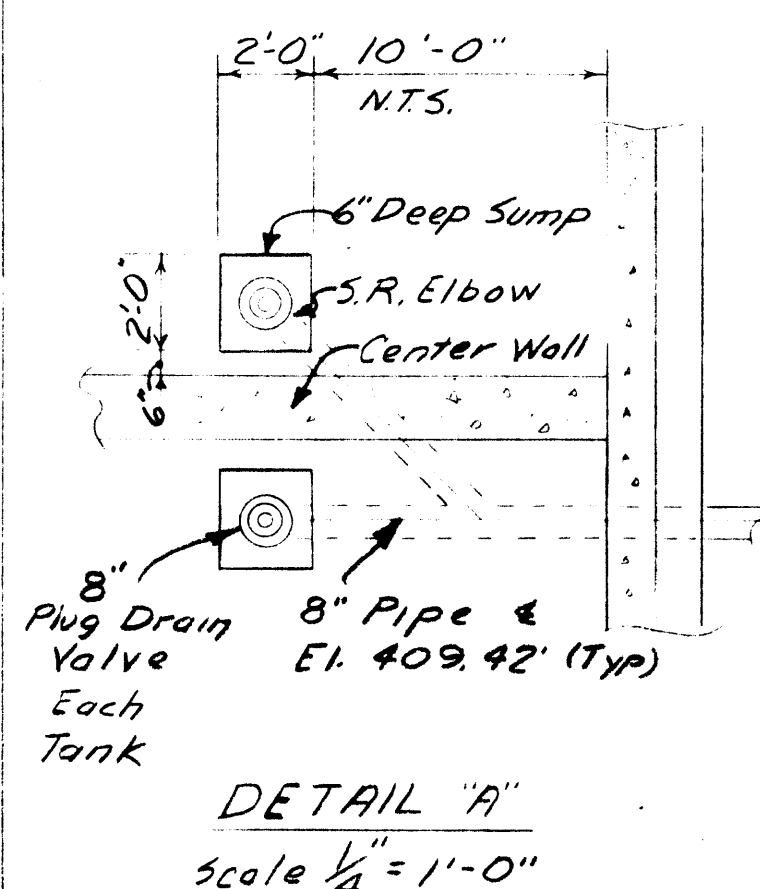
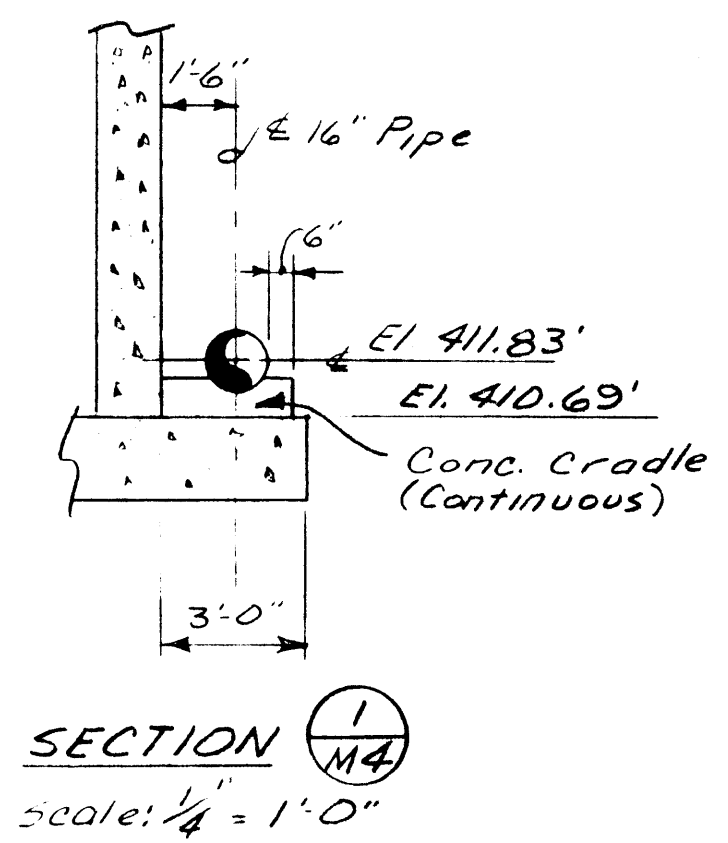
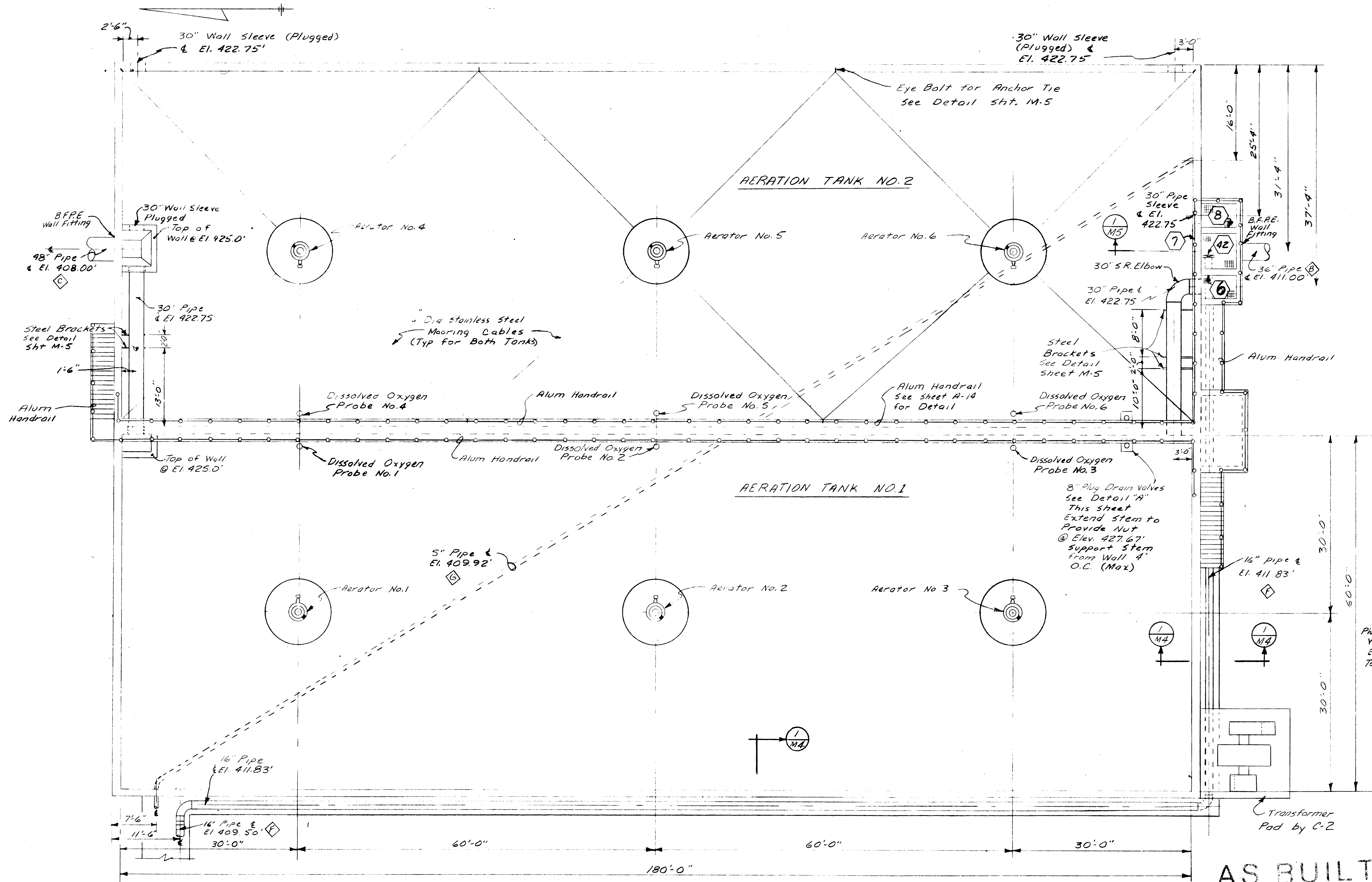
JF 33/1  
JMB 2-7-72  
JMB 7-7-72  
WJP 7-7-72

IN CHARGE OF: JDM  
DESIGNED BY: WJP  
MADE BY: MJM, JMB  
CHECKED BY: JDM

James D. G. [Signature]  
PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK—LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		
<b>INFLUENT PUMP STATION SECTIONS &amp; DETAILS</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK		DATE: FEBRUARY 14, 1968 SCALE: AS SHOWN FILE NO.: 15.149-93F
REVISIONS 1/2/72 1/2/72		<b>M-3</b>





Notes:  
 1) Pipes are sleeved & caulked through walls unless otherwise noted  
 2) For detail of Plugged Wall Sleeves, See Detail Sht. M-5

PLAN  
 scale: 1/8" = 1'-0"

AS BUILT

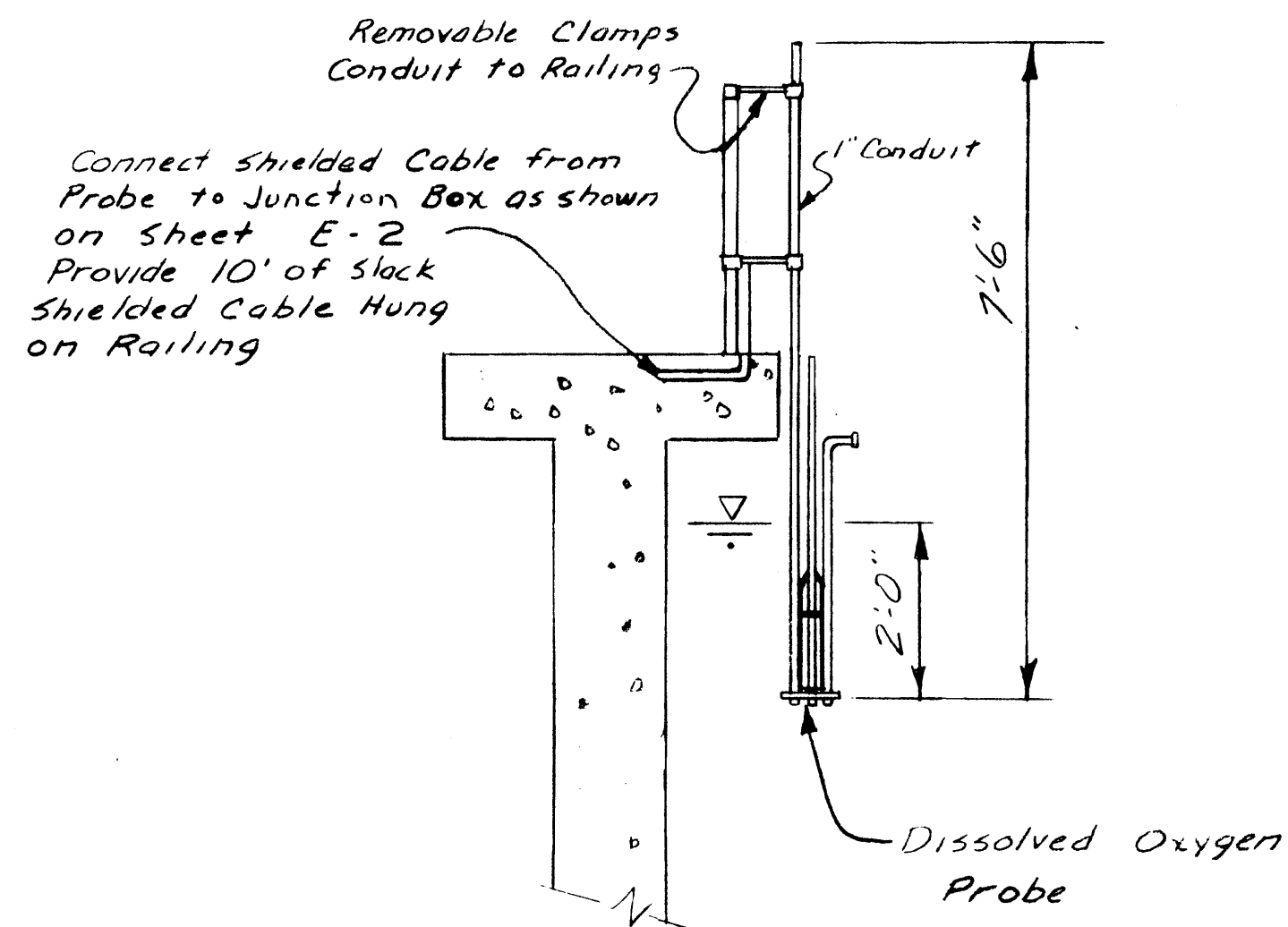
331  
 JMB  
 JMB  
 JMB

IN CHARGE OF: JDM  
 DESIGNED BY: WJP  
 MADE BY: JMB  
 CHECKED BY: JDM

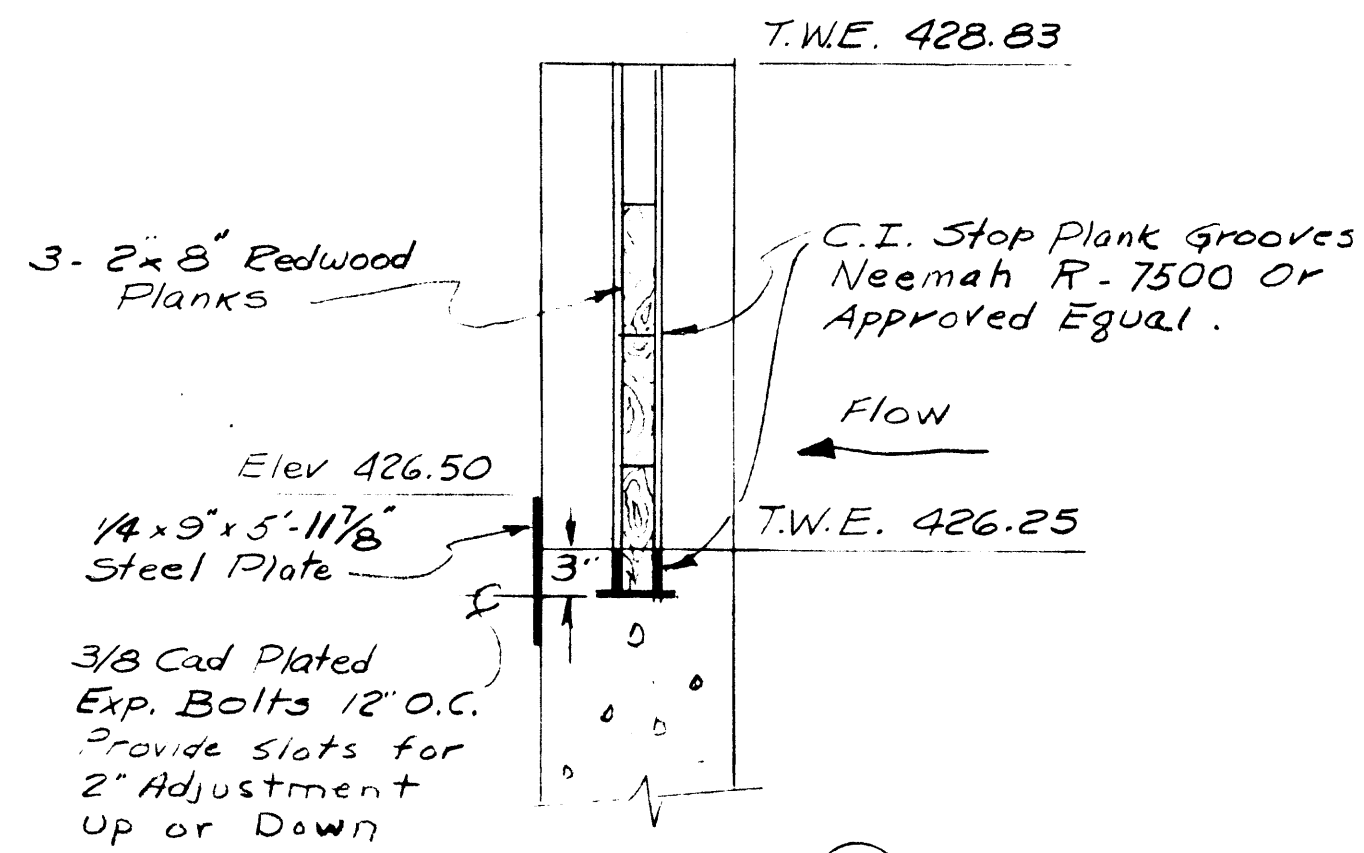
James S. [Signature]  
 PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT <b>AERATION TANKS PLAN</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: AS SHOWN FILE NO.: 115.149-94F	

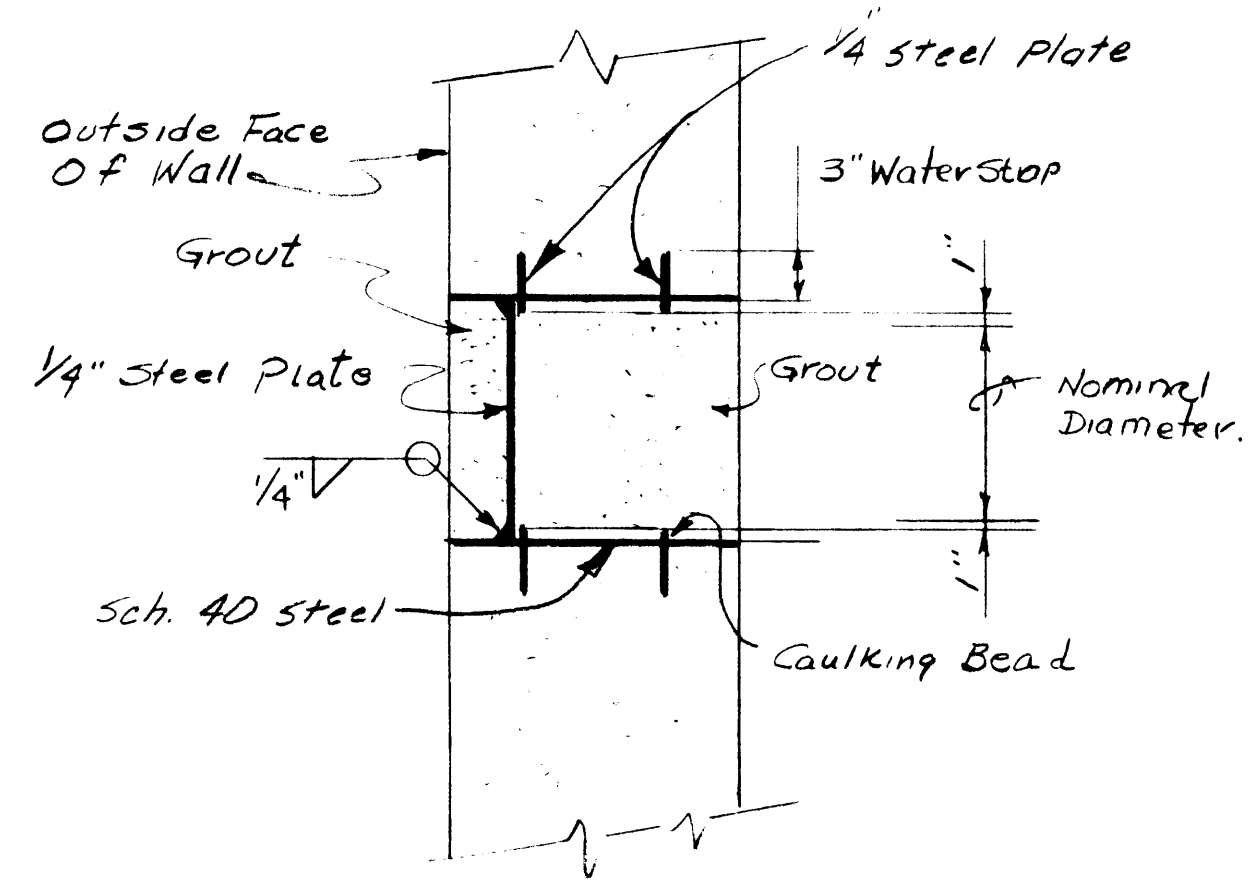
M-4



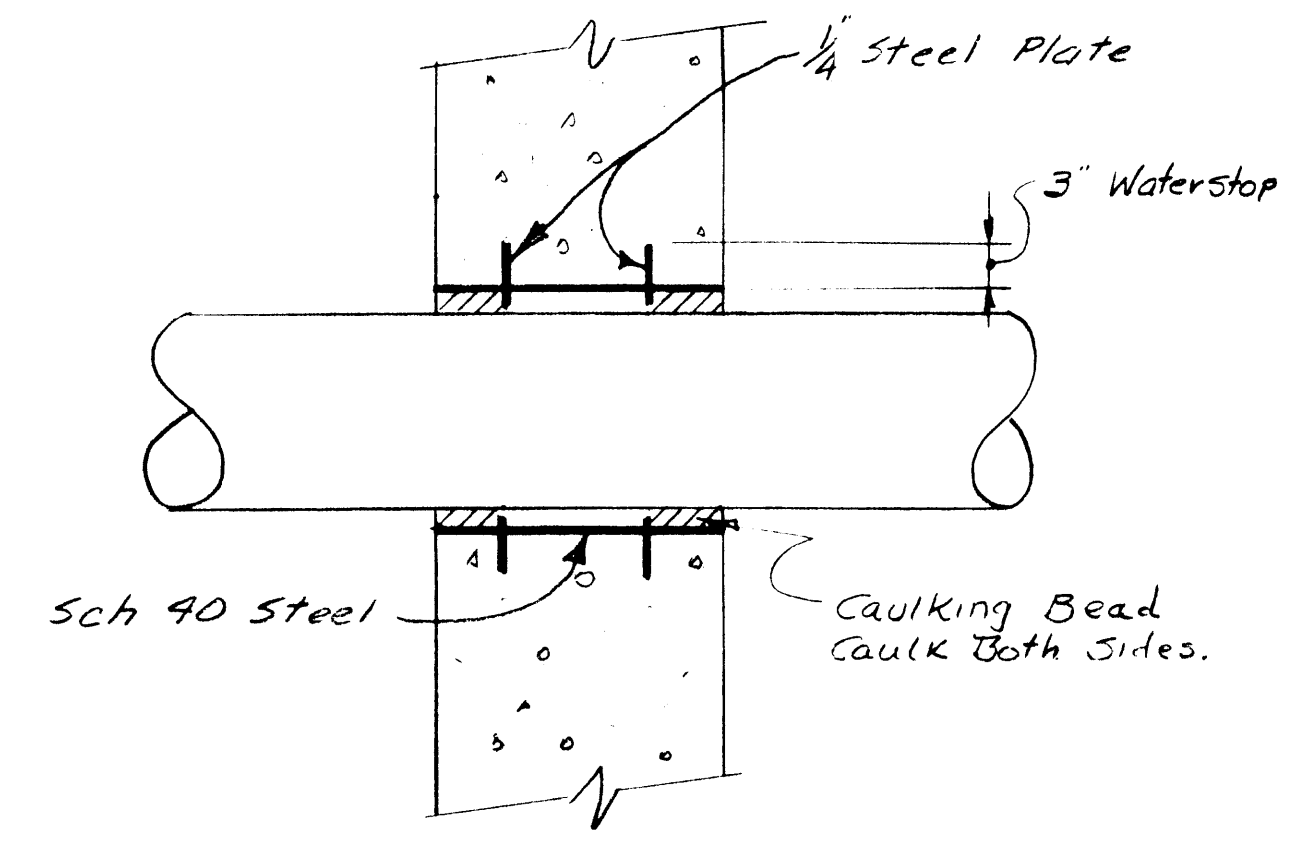
DISSOLVED OXYGEN PROBE DETAIL  
Scale: 1/2" = 1'-0"



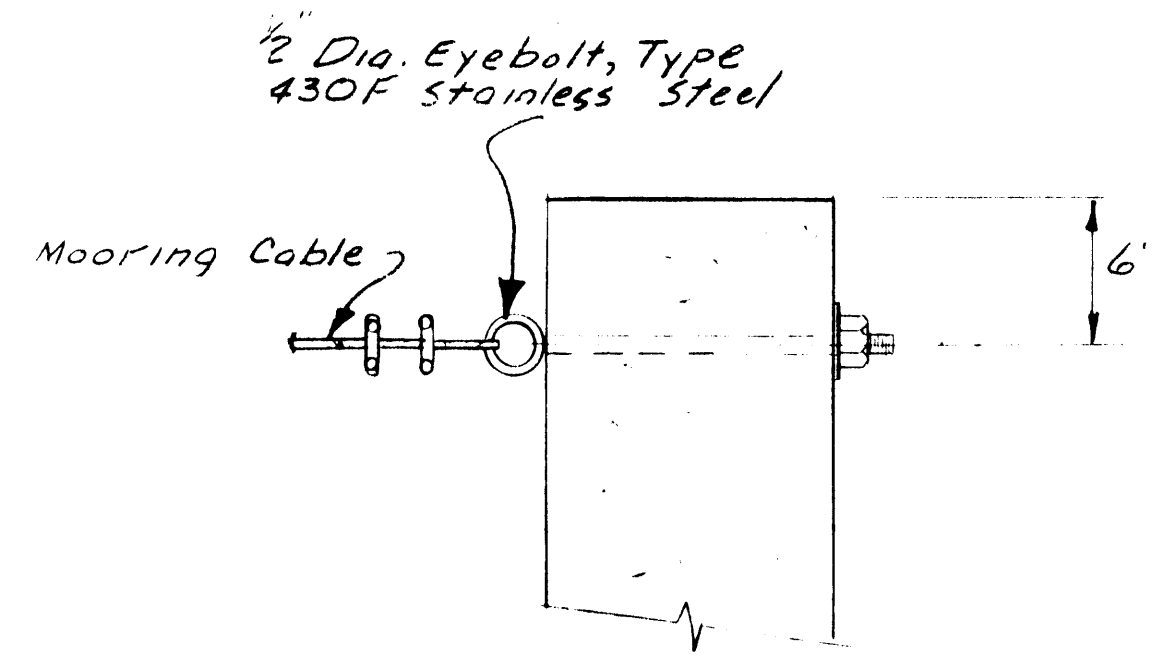
SECTION TYP FOR NORTH, EAST AND WEST WALLS  
Scale: 1" = 1'-0"



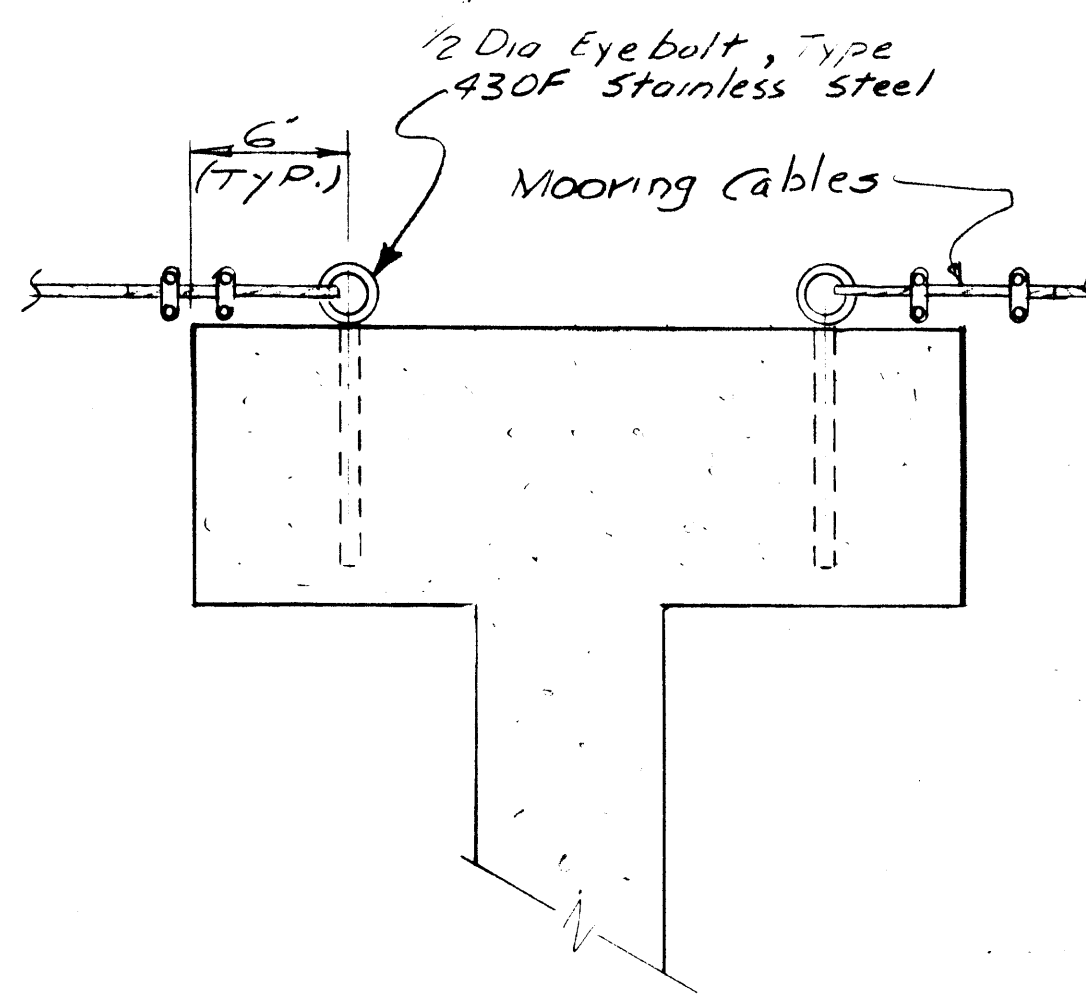
TYPICAL DETAIL PLUGGED WALL SLEEVE  
No Scale



TYPICAL DETAIL WALL SLEEVE  
No Scale

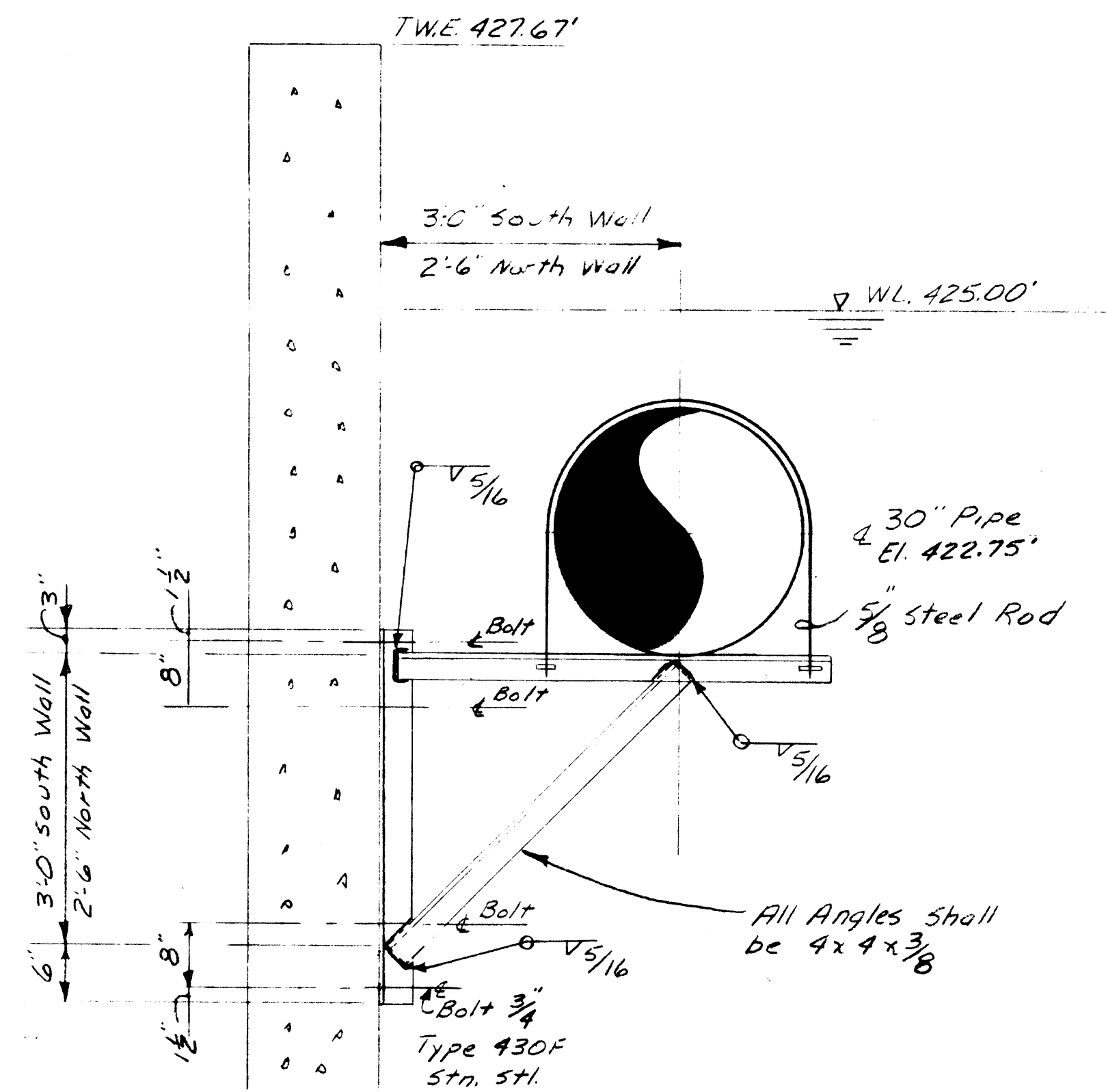


AT WALL

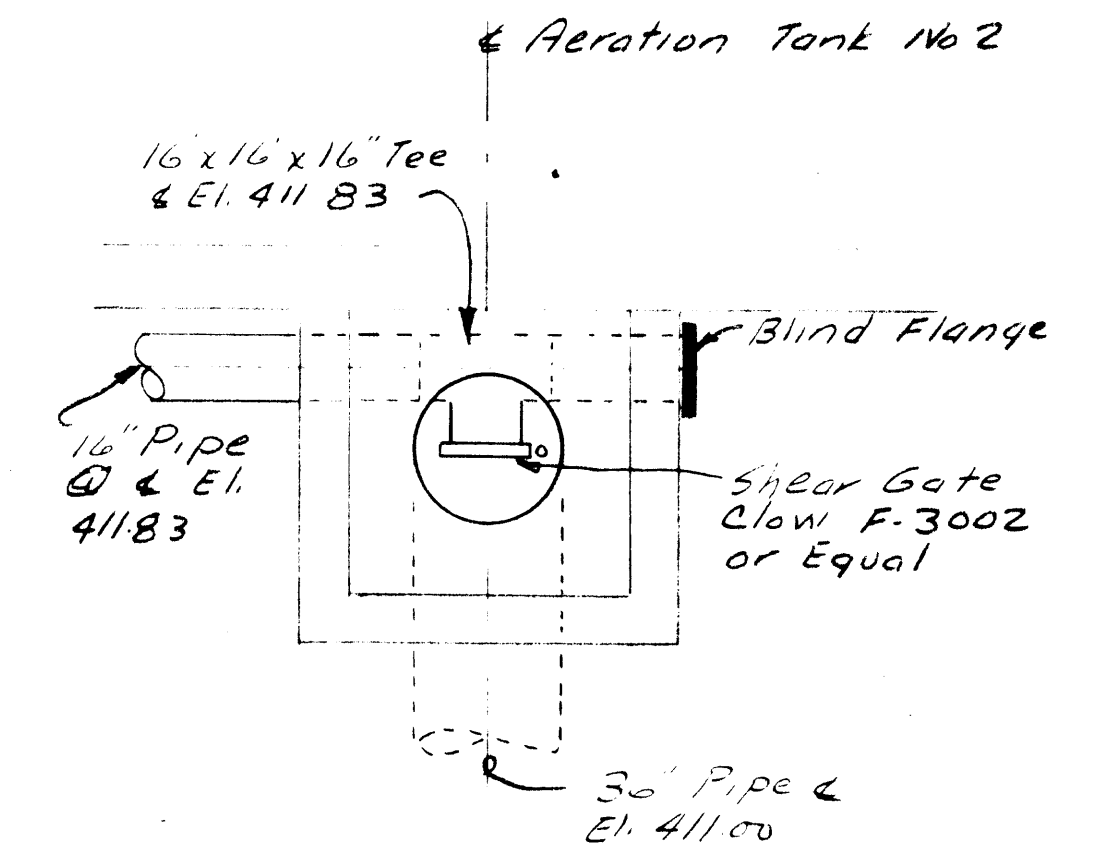


AT WALKWAYS

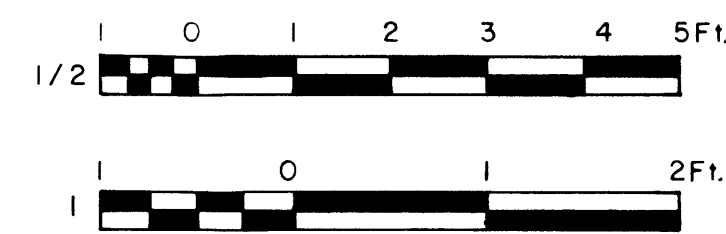
MOORING CABLE ANCHOR EYE DETAILS  
No Scale



STEEL BRACKET DETAIL  
Scale 3/4" = 1'-0"



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



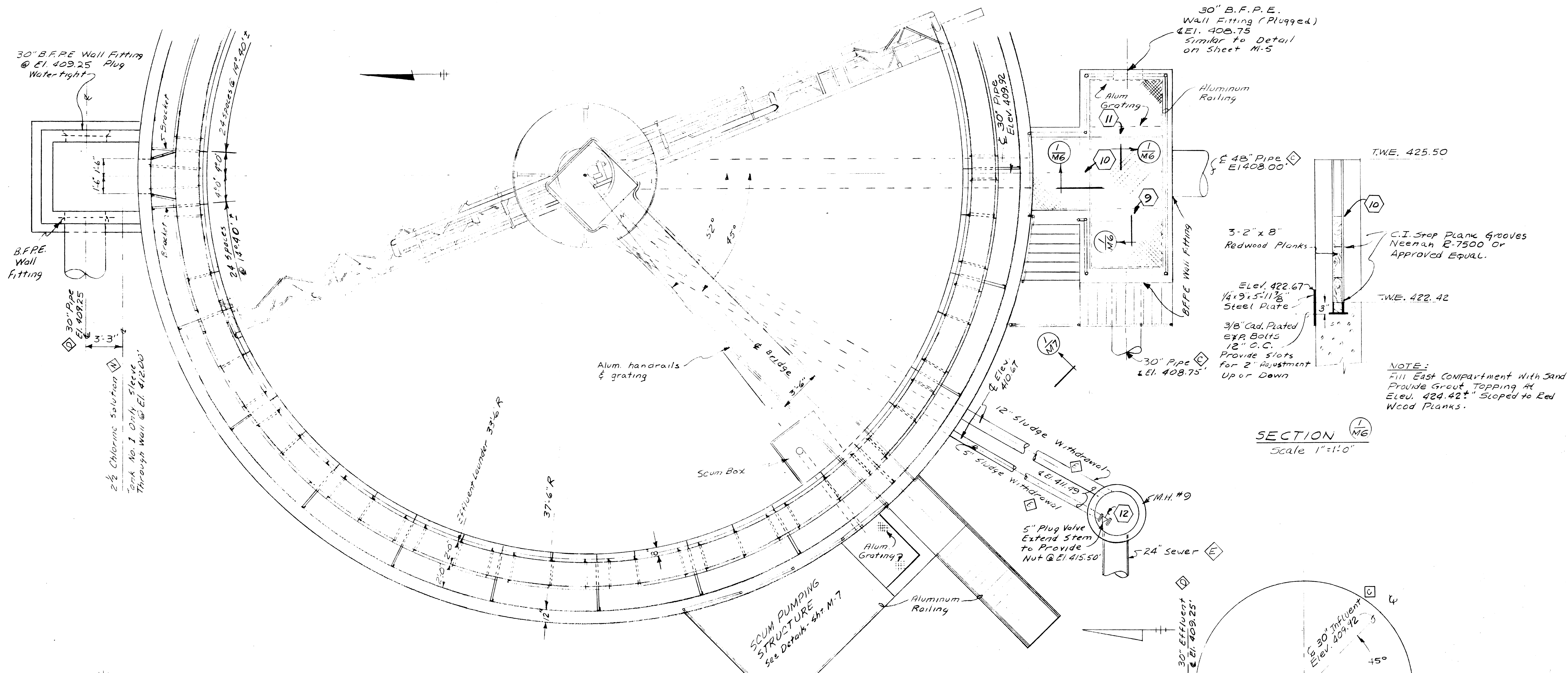
337  
JMB 7-7-72  
JMB 7-7-72  
JJP 7-7-72

IN CHARGE OF: JDM  
DESIGNED BY: WJP  
MADE BY: JMB  
CHECKED BY: JDM

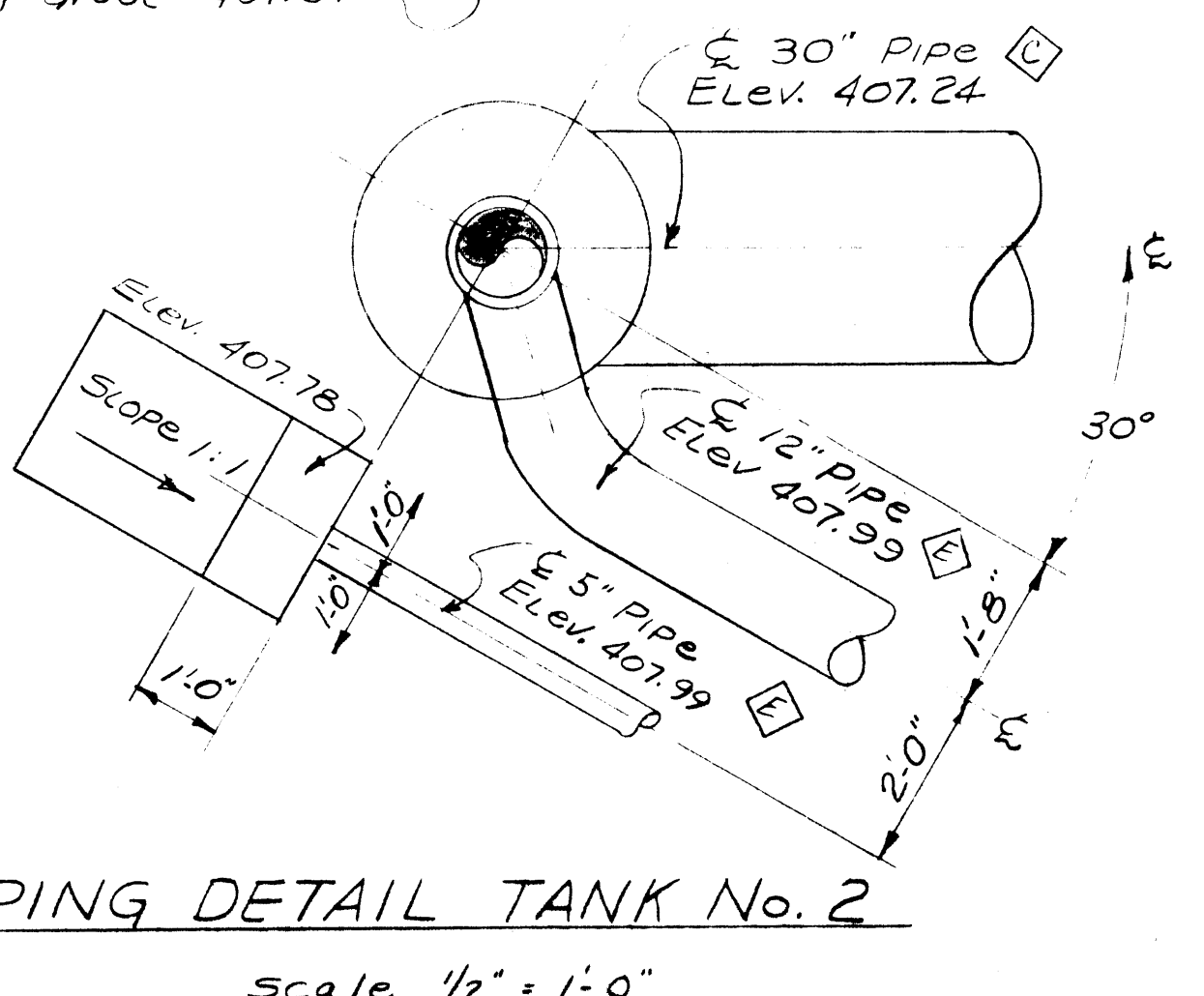
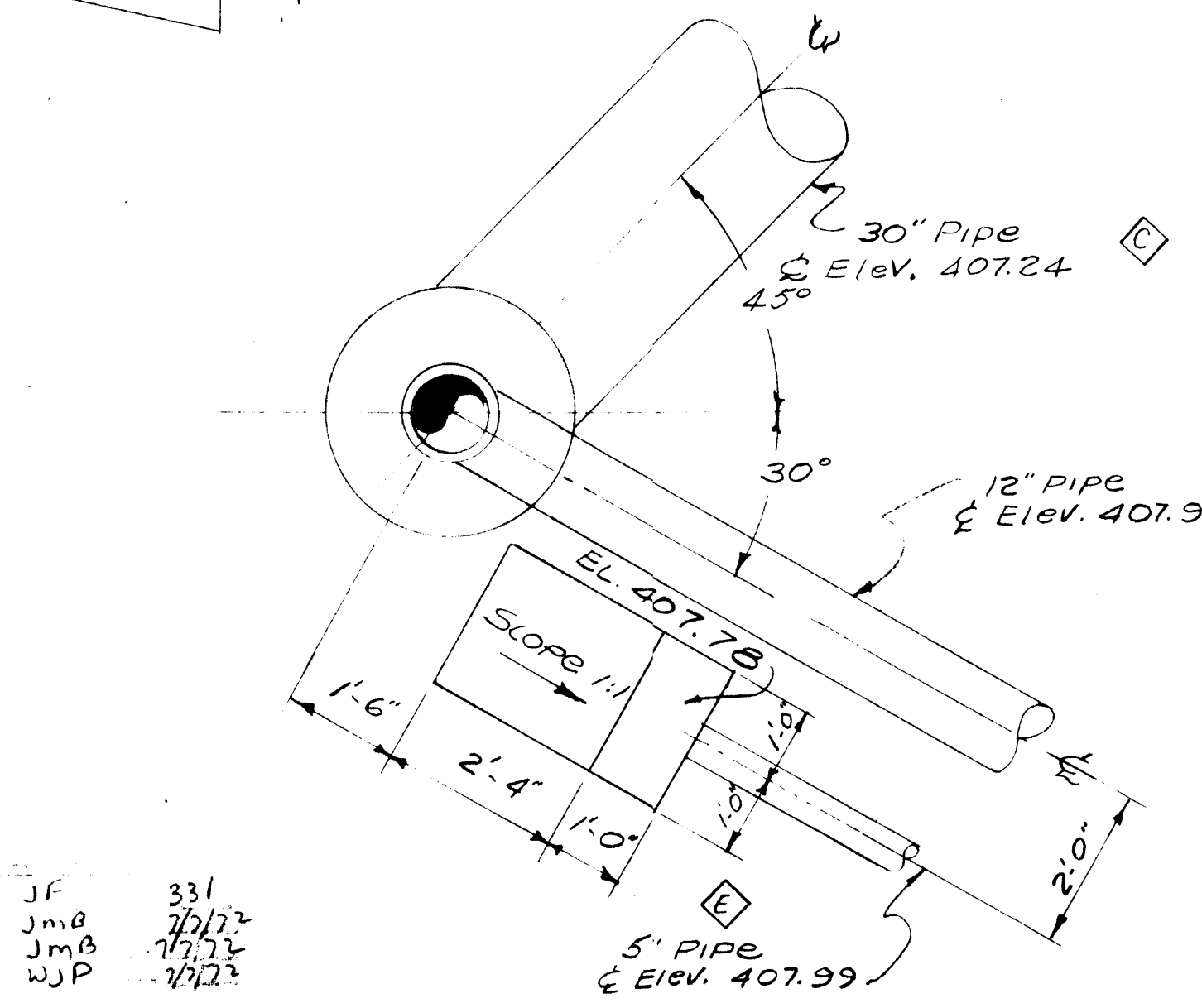
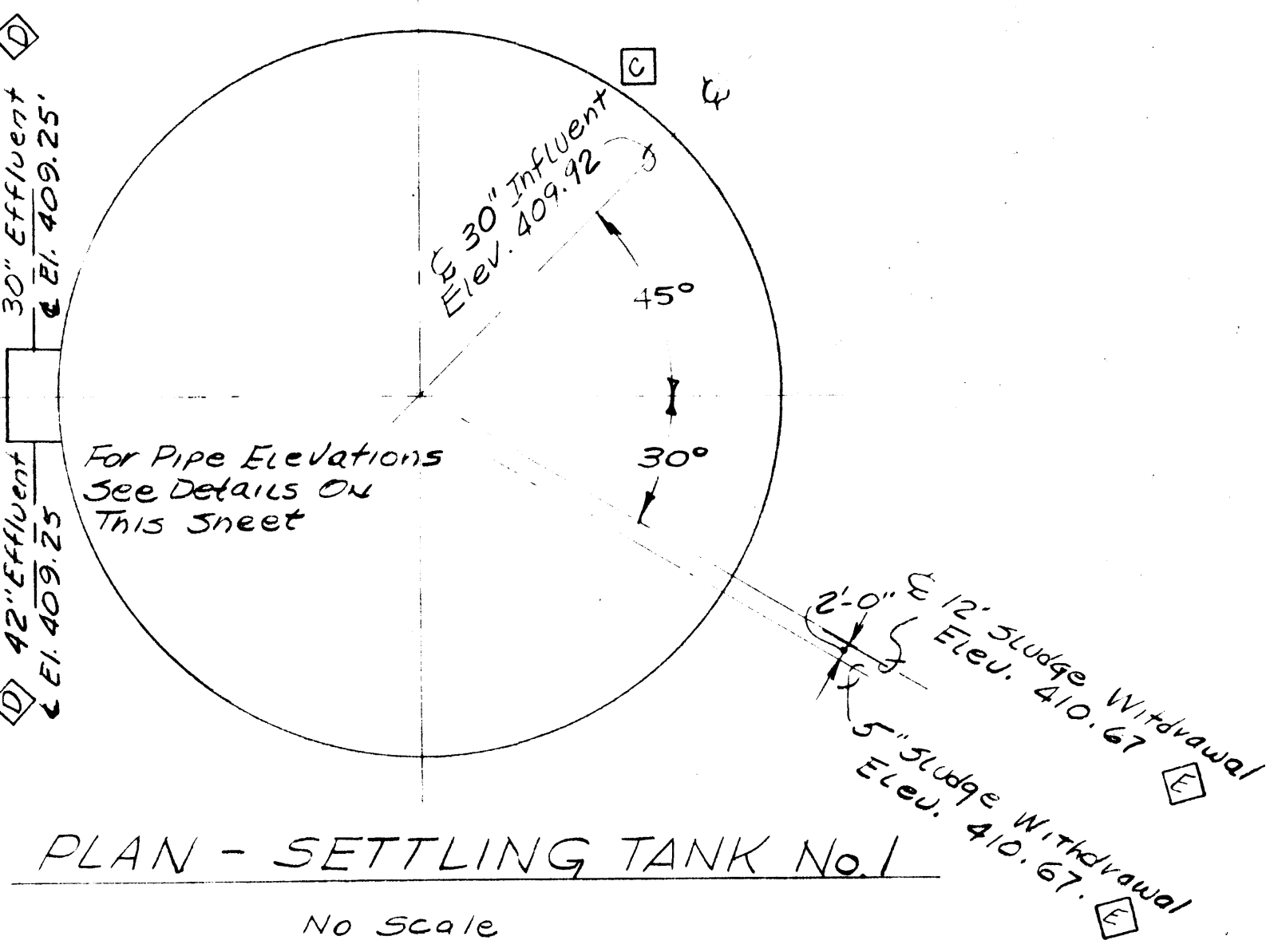
Principal Engineer  
N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		
<b>AERATION TANKS DETAILS</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: AS SHOWN	<b>M-5</b>
REVISIONS	FILE NO.: 115.149-95F	

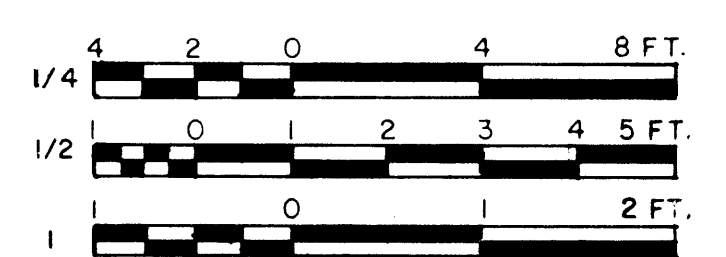




PLAN - SETTLING TANK No. 2  
Scale 1/4" = 1'-0"



Notes  
Unless Otherwise Noted  
Settling Tank No. 1 is  
Identical to Settling Tank No. 2

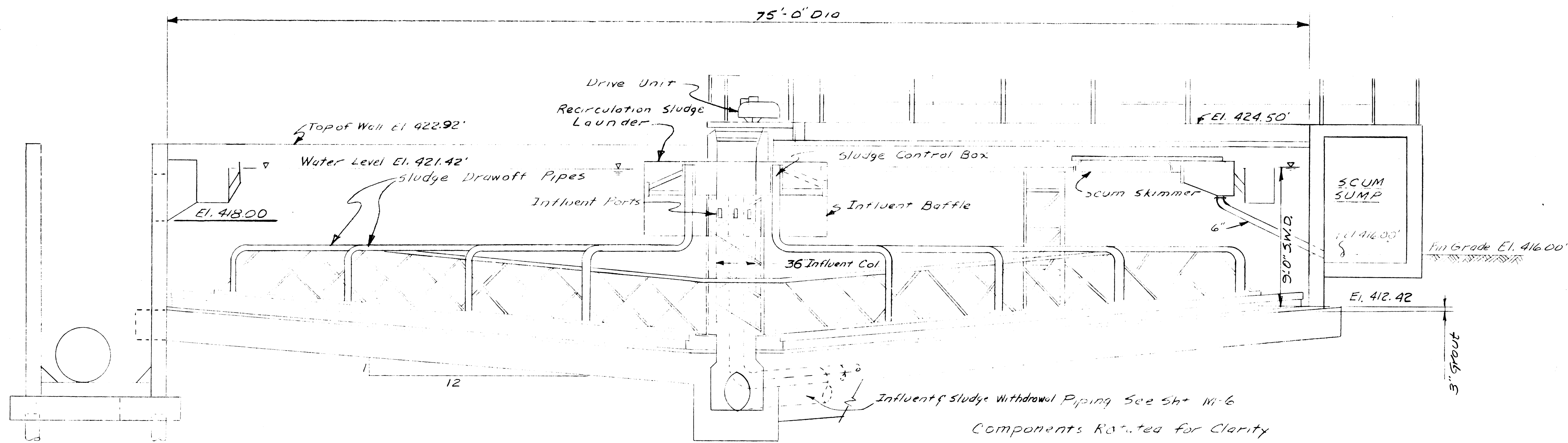


IN CHARGE OF: JDM  
DESIGNED BY: WJP  
MADE BY: JMB  
CHECKED BY: JDM

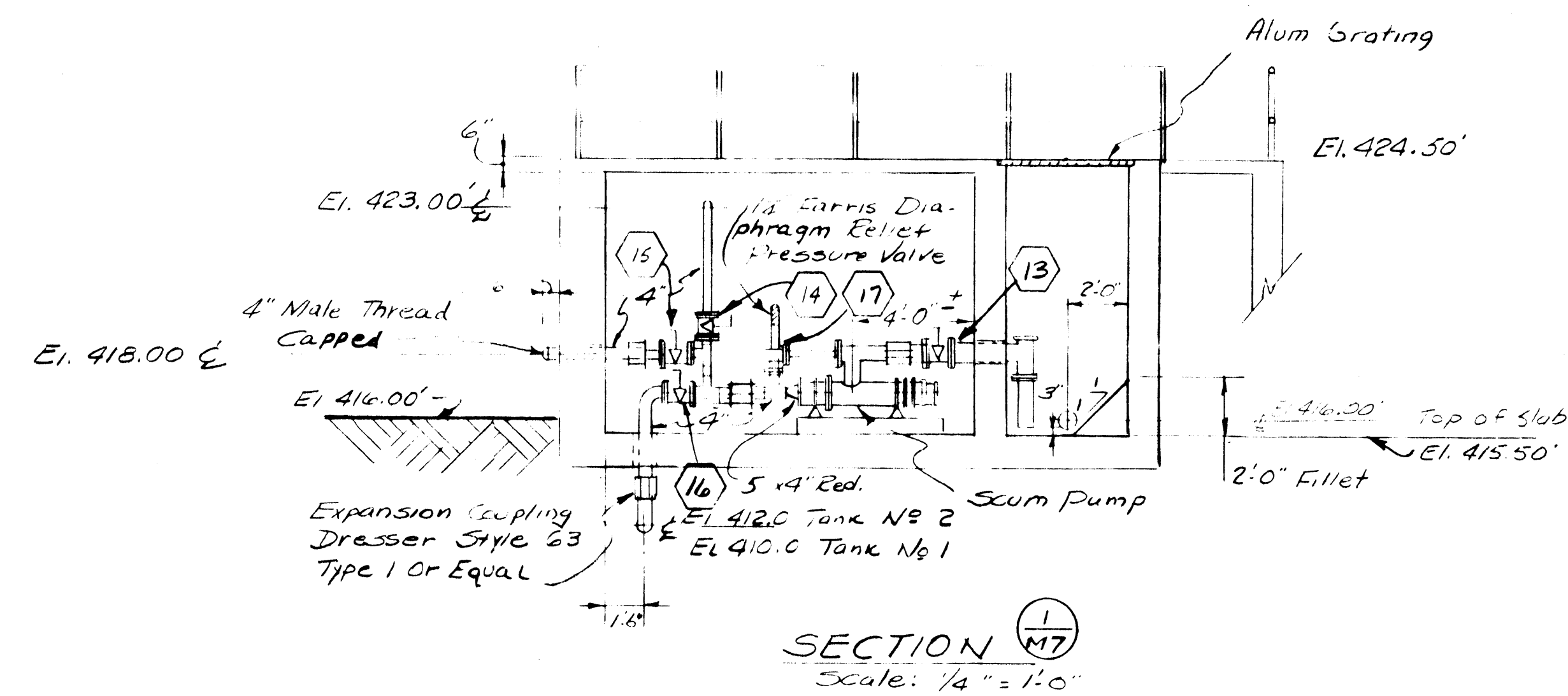
JF 331  
Jmb 7/2/72  
Jmb 7/2/72  
WJP 7/2/72

James A. McWaters  
PRINCIPAL ENGINEERS N.Y.S.P.E. LIC. NO. 39764

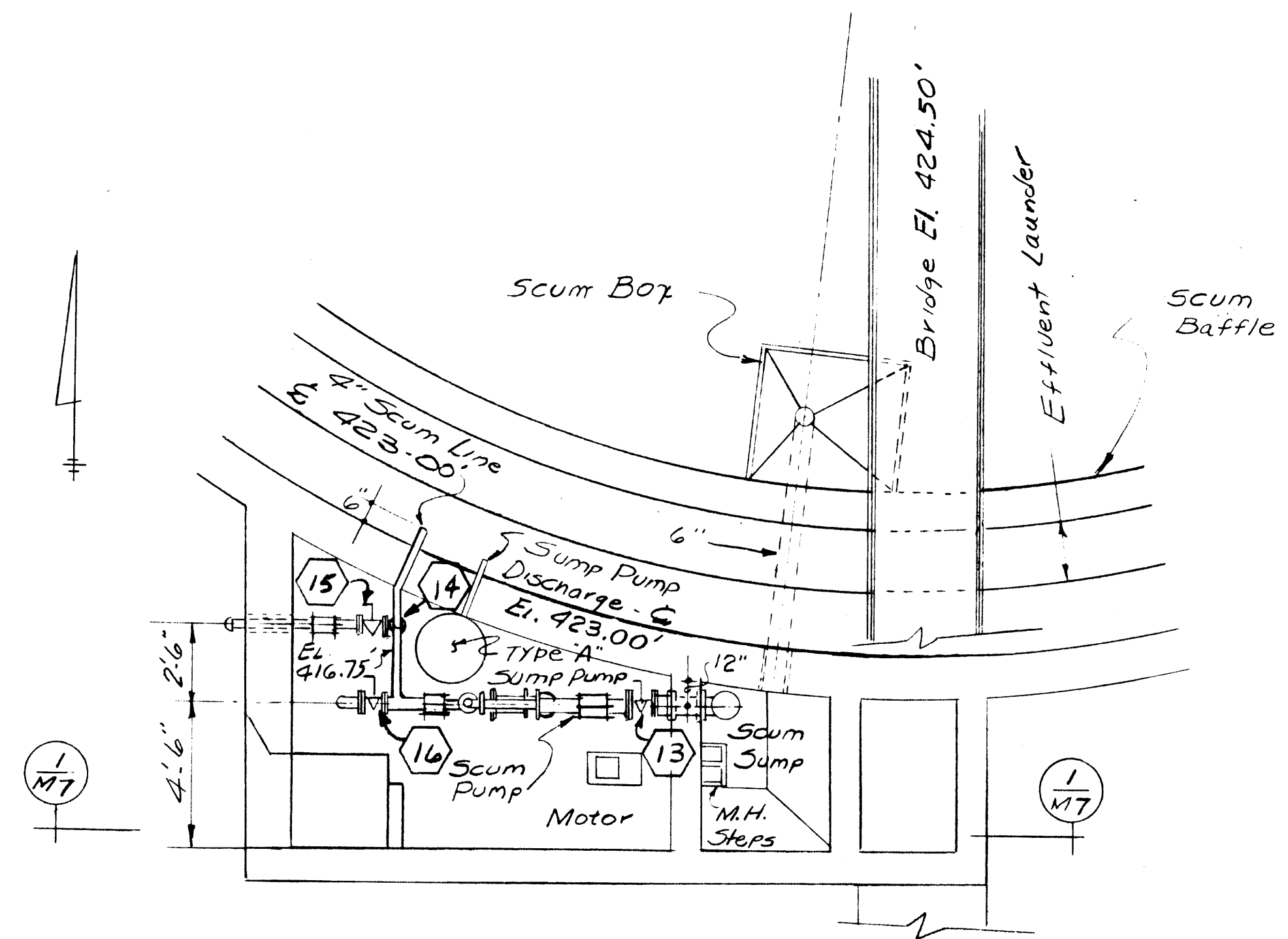
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		
<b>SETTLING TANKS PLAN &amp; DETAILS</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: AS SHOWN FILE NO.: 115,149-96F	<b>M-6</b>



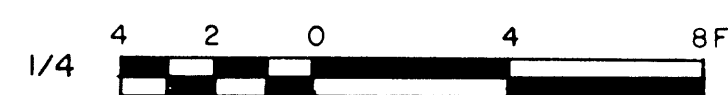
SECTION-SETTLING TANK  
Scale 1/4" = 1'-0"



SECTION M7  
Scale: 1/4" = 1'-0"



SCUM PUMPING STRUCTURE  
PLAN @ ELEV. 423.50'  
Scale: 1/4" = 1'-0"



- Notes:
- 1) Unless Otherwise Noted Details for Settling Tanks No. 1 & No. 2 Are Identical
  - 2) Unless Otherwise Noted Pipes shall be Sleeved Thru Walls and Slabs. See Detail Sheet M-5.
  - 3) Provide 1/4" Check Valve & a 1/4" Gate Valve on the Discharge Line of the Sump Pumps. The Discharge Line shall be 1/4"
  - 4) An Angle Frame & Grating Cover shall be Provide for Sumps

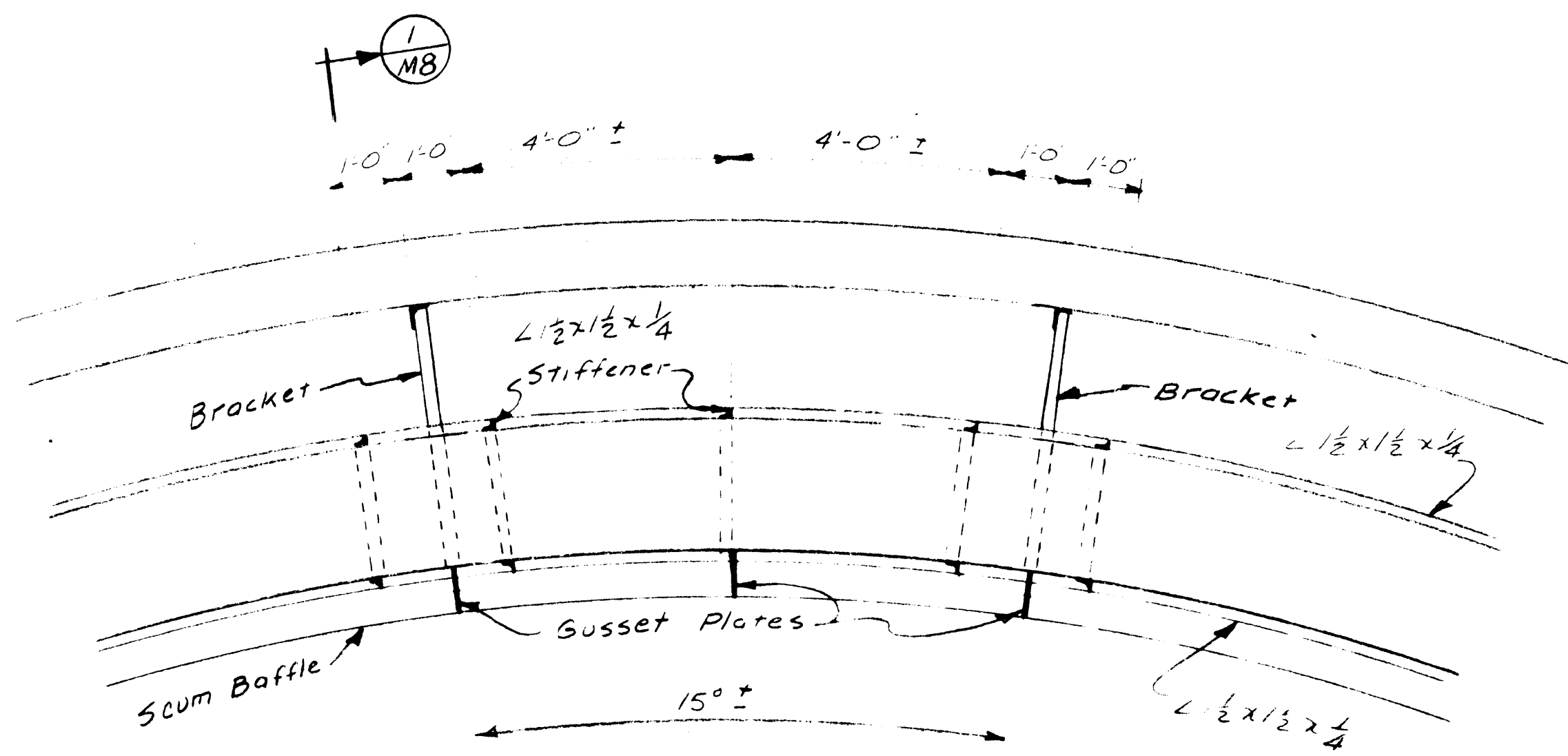
AS BUILT

331  
JMB 1/1/72  
JMB 1/1/72  
JWP 1/1/72  
IN CHARGE OF: JDM  
DESIGNED BY: WJP  
MADE BY: JMB  
CHECKED BY: JDM

James H. McLean  
PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

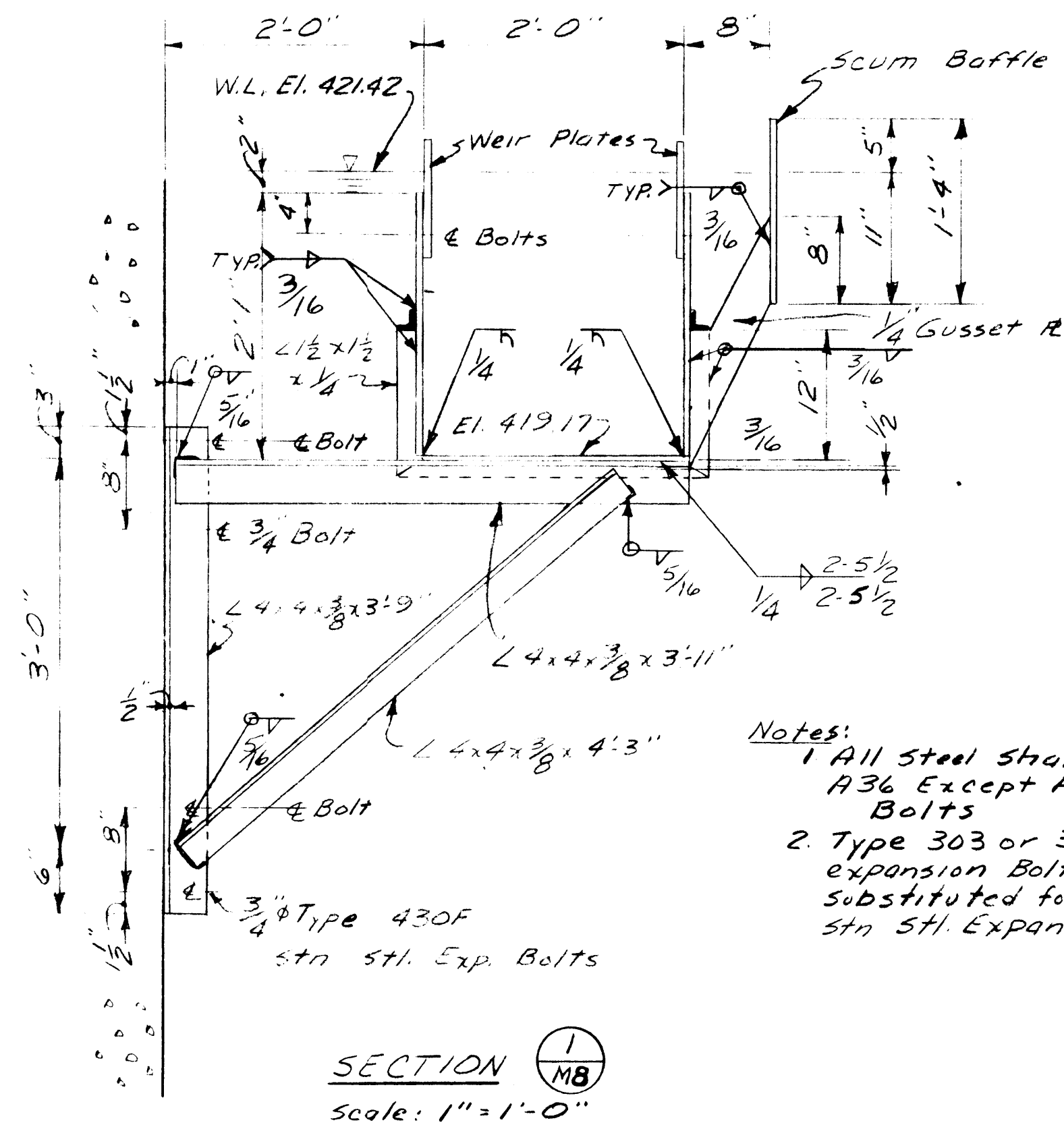
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK-LIMESTONE TREATMENT PLANT TREATMENT PLANT		
<b>SETTLING TANKS SECTIONS &amp; DETAILS</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: AS SHOWN FILE NO.: 115149 - 97F	M-7





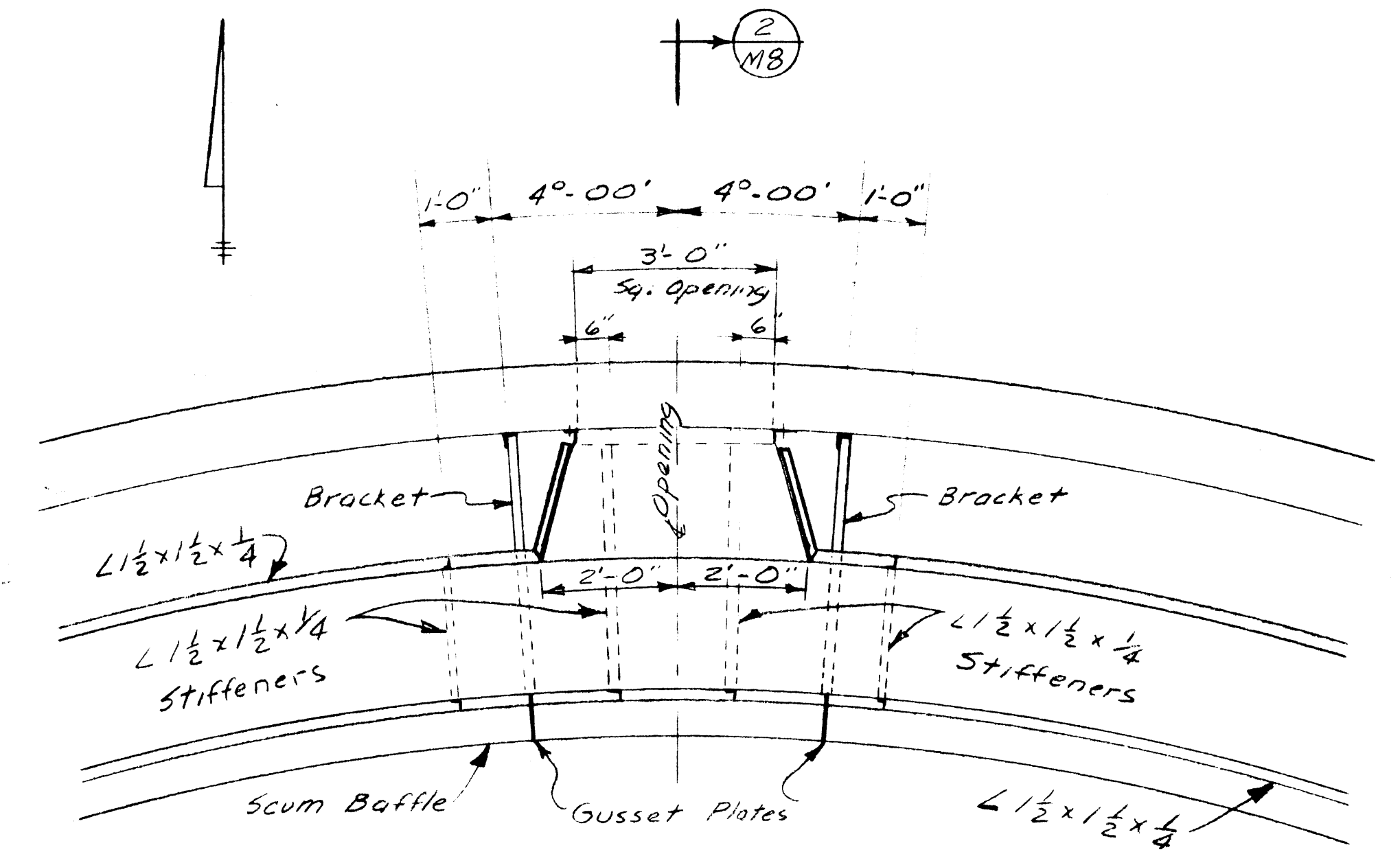
TYPICAL LAUNDER SECTION

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



SECTION MB-1  
Scale: 1" = 1'-0"

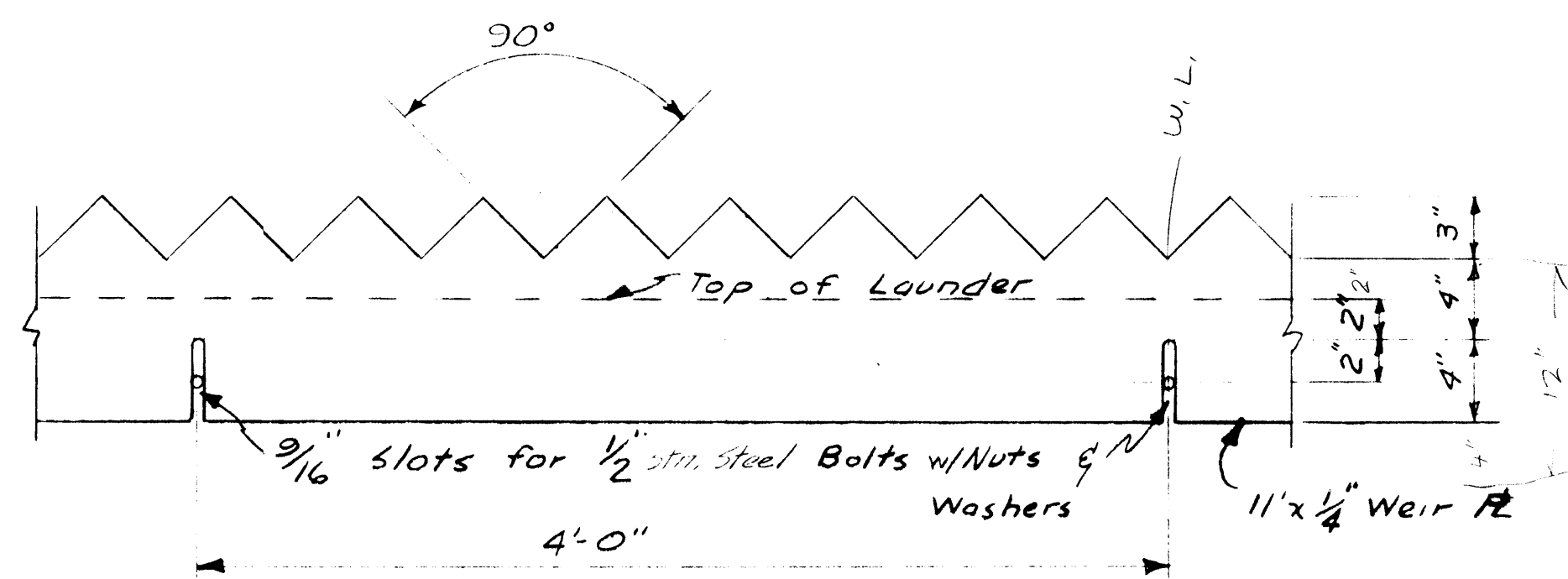
- Notes:
- All steel shall be A36 Except Anchor Bolts
  - Type 303 or 304 stn. stl. expansion Bolts may be substituted for Type 430F stn stl. Expansion Bolts



LAUNDER DETAIL @ EFFLUENT

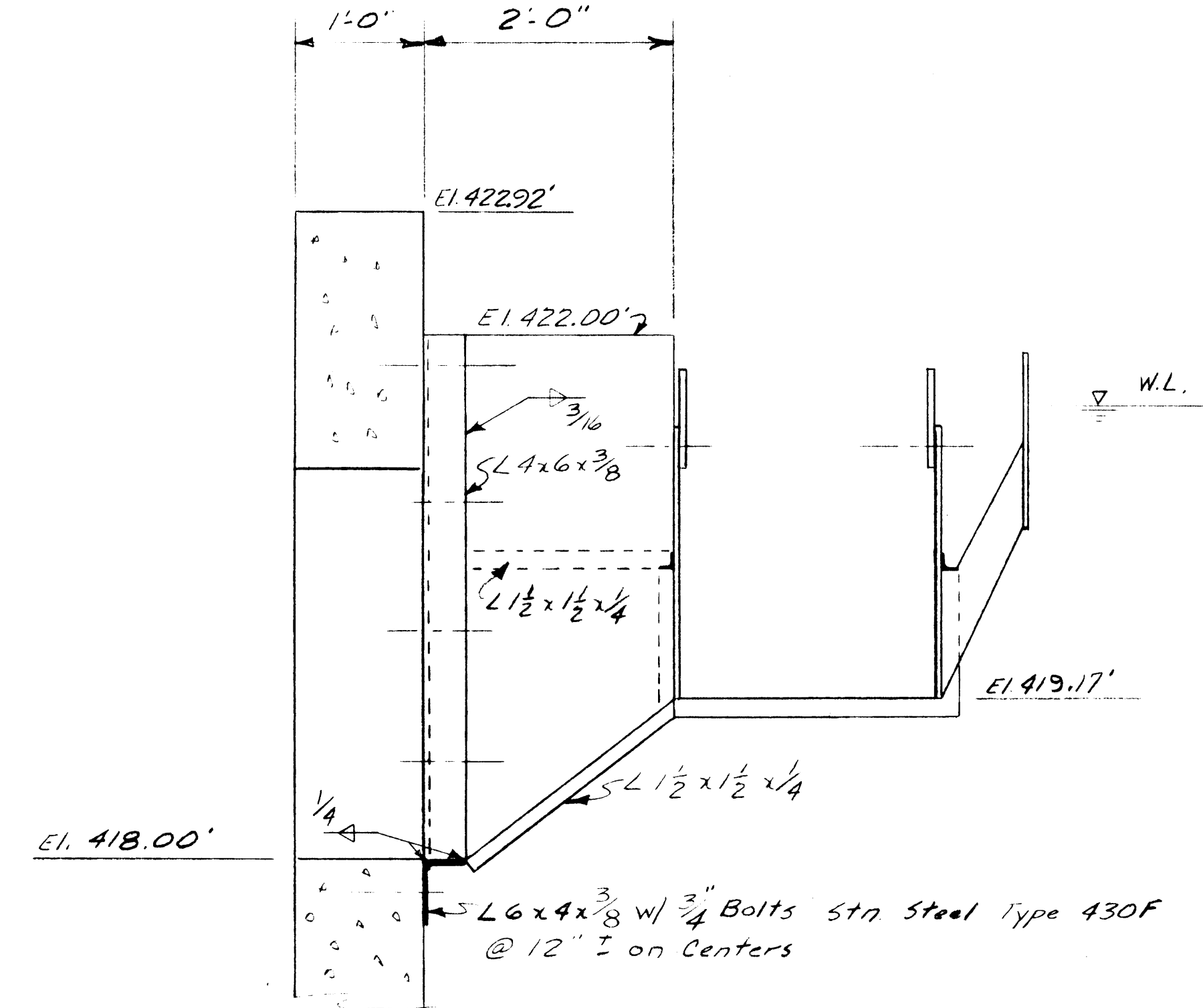
Scale: 1/2" = 1'-0"

- Note:
- All Plate shall be 1/4" Thick



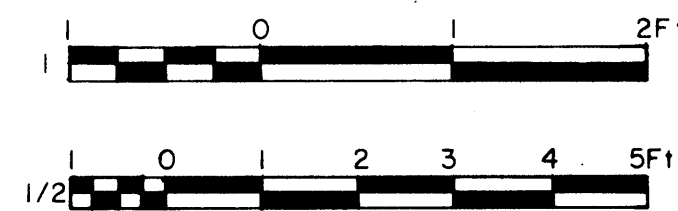
WEIR DETAIL

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



SECTION MB-2  
Scale: 1" = 1'-0"

Note: For Welds not shown see Section MB-1 This Sheet



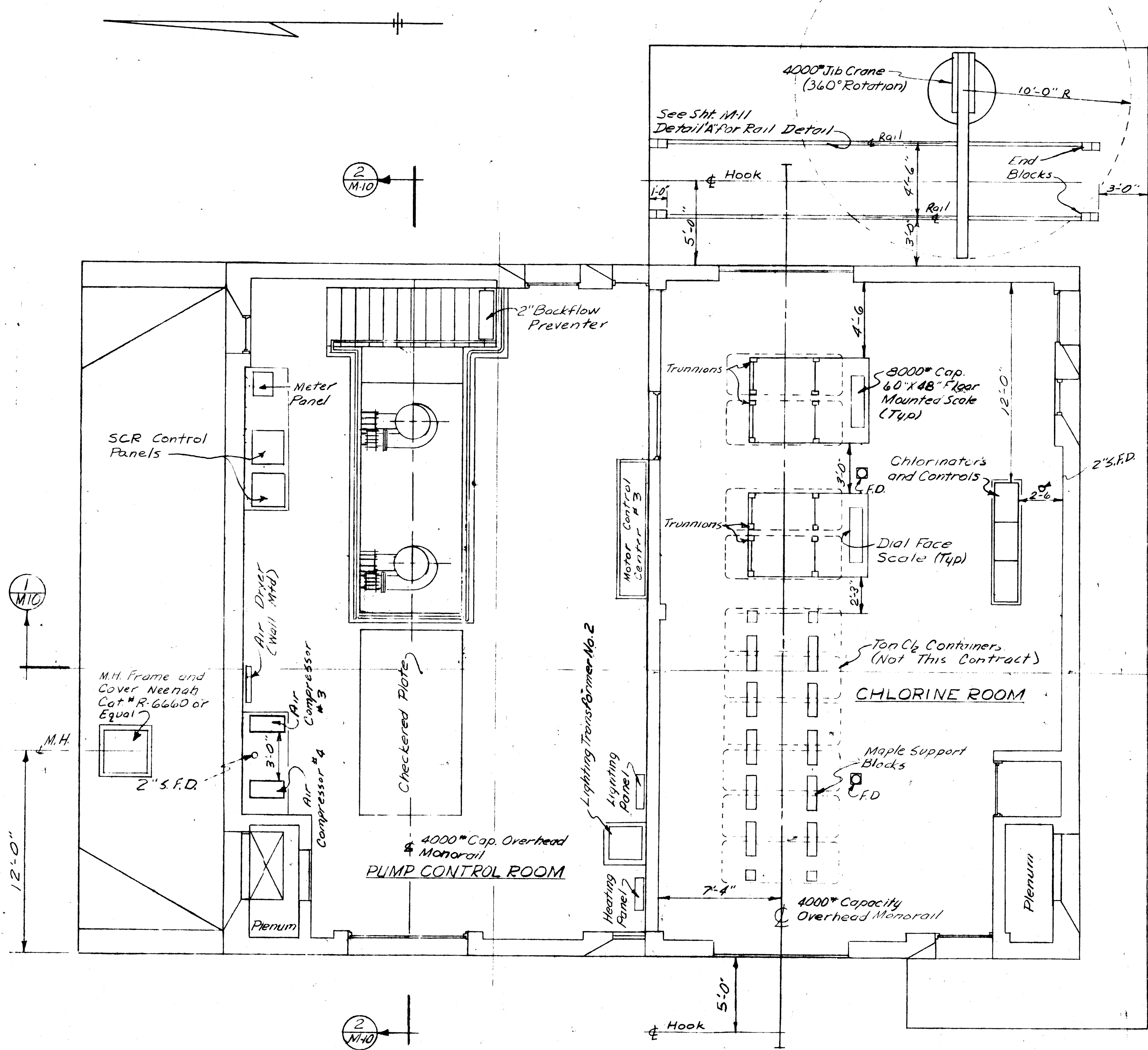
JF 331  
JMB 7/2/72  
JMB 7/2/72  
WJP 7/2/72

IN CHARGE OF: JDM  
DESIGNED BY: WJP  
MADE BY: JMB  
CHECKED BY: JDM

James M. Gere  
PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

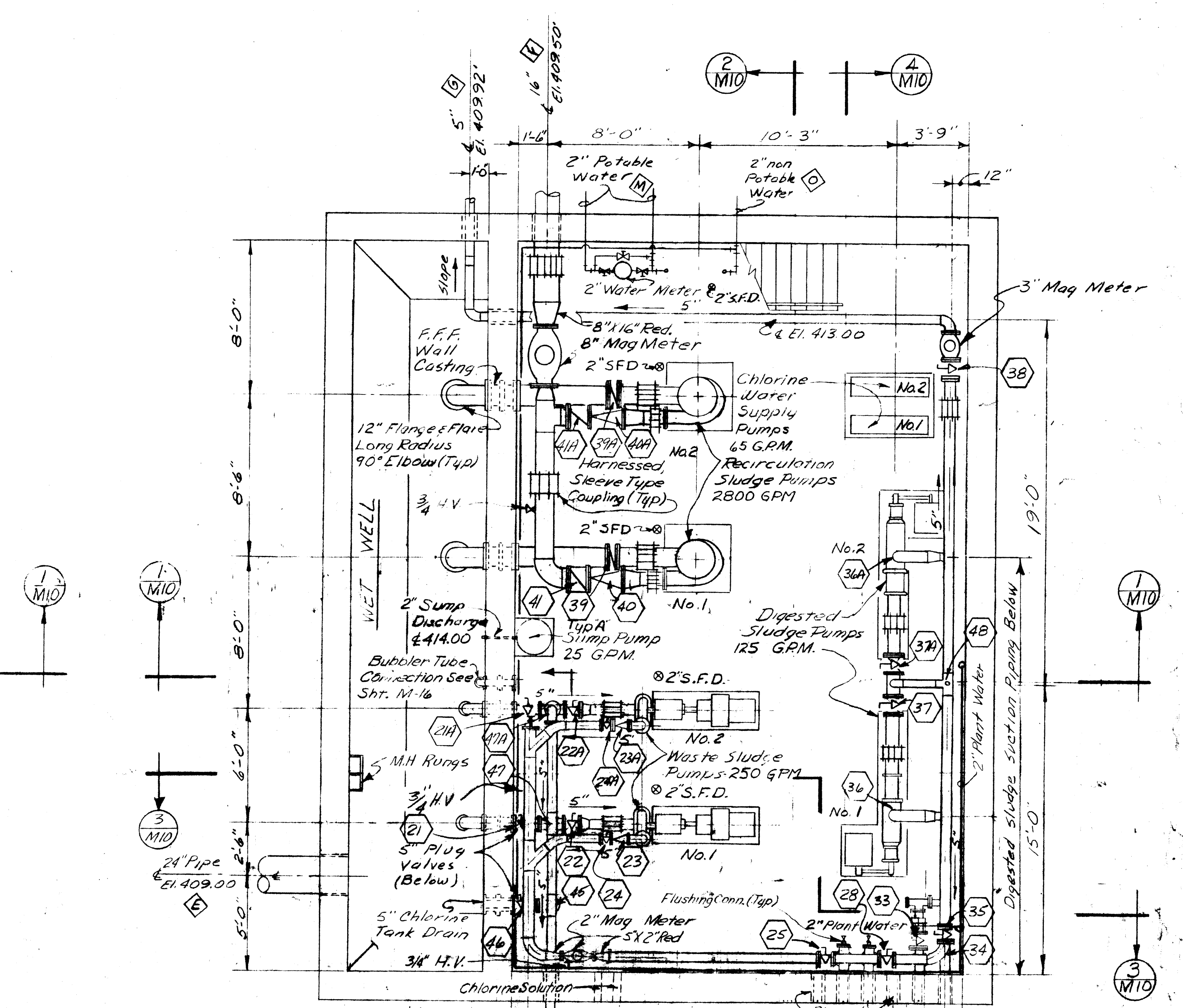
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		DATE: FEBRUARY 14, 1968 SCALE: AS SHOWN FILE NO.: 115.149-98F
<b>SETTLING TANKS DETAILS</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK		<b>M-8</b>
REVISIONS 1/2/72 2/2/72		





Note: see Sheet M-14 for Plant Water and Chlorine Schematics

**FIRST FLOOR PLAN  
SLUDGE PUMP STATION**



- Notes:
- 1) All Sleeve Type Couplings Shown on Unbraced Pressure Lines Shall be Harnesses Suction Piping in Wet Well shall be C.I.
  - 2) See Sheet M-14 for Pump Seal Water & Vent Piping
  - 3) Provide F.F.F. Wall Castings for Piping Through South Wall of Wet Well Below El. 412.00. Piping Above This Elev. may be sleeved and Caulked
  - 4) Unless Otherwise Noted Pipes shall be Sleeved Thru Walls and Slabs. See Detail Sht. M-5

**BASEMENT PLAN  
SLUDGE PUMP STATION**

**AS BUILT**

331  
JMB  
JMB  
JMB

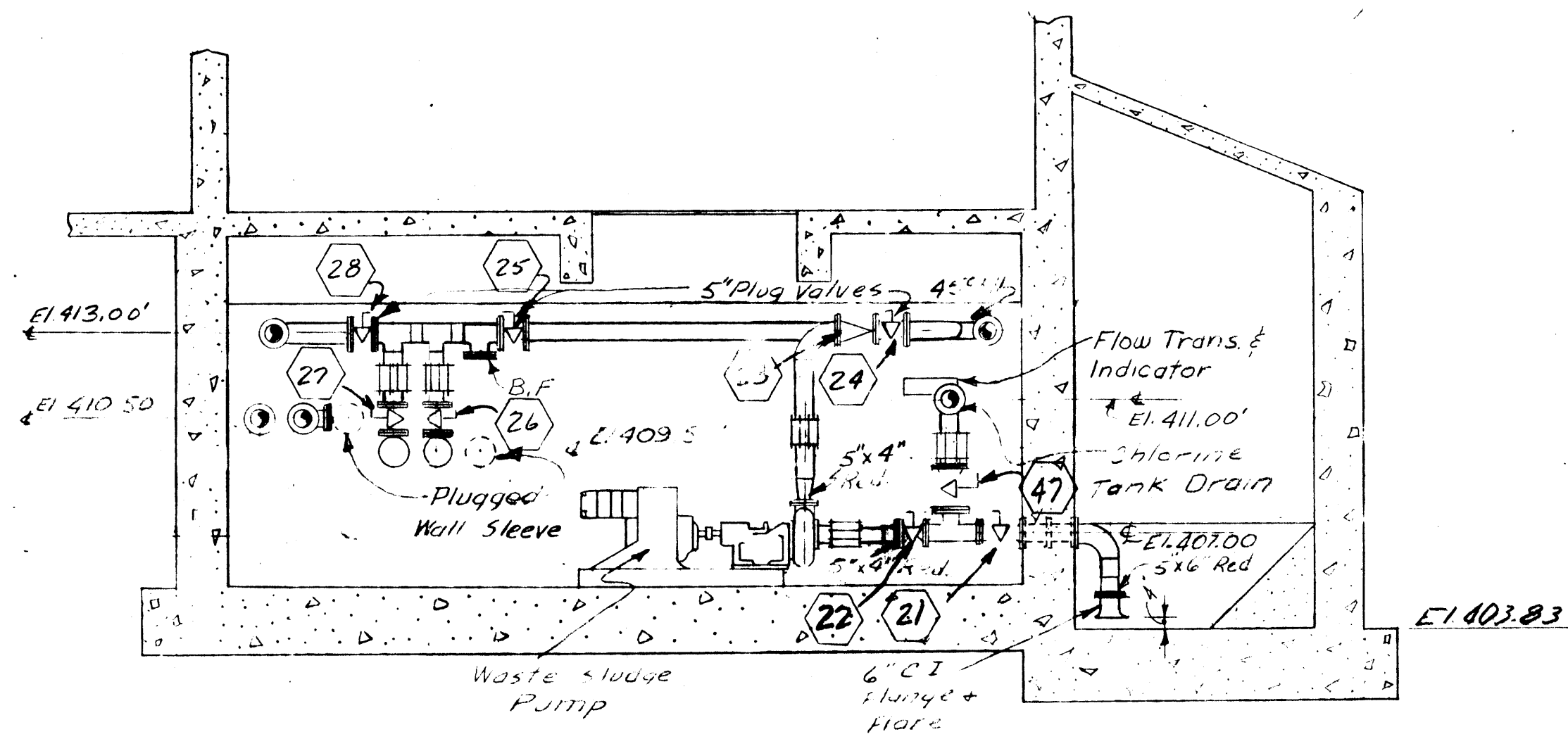
IN CHARGE: JDM  
DESIGNED BY: PCJ  
CHECKED BY: MJM  
DATE: JDM



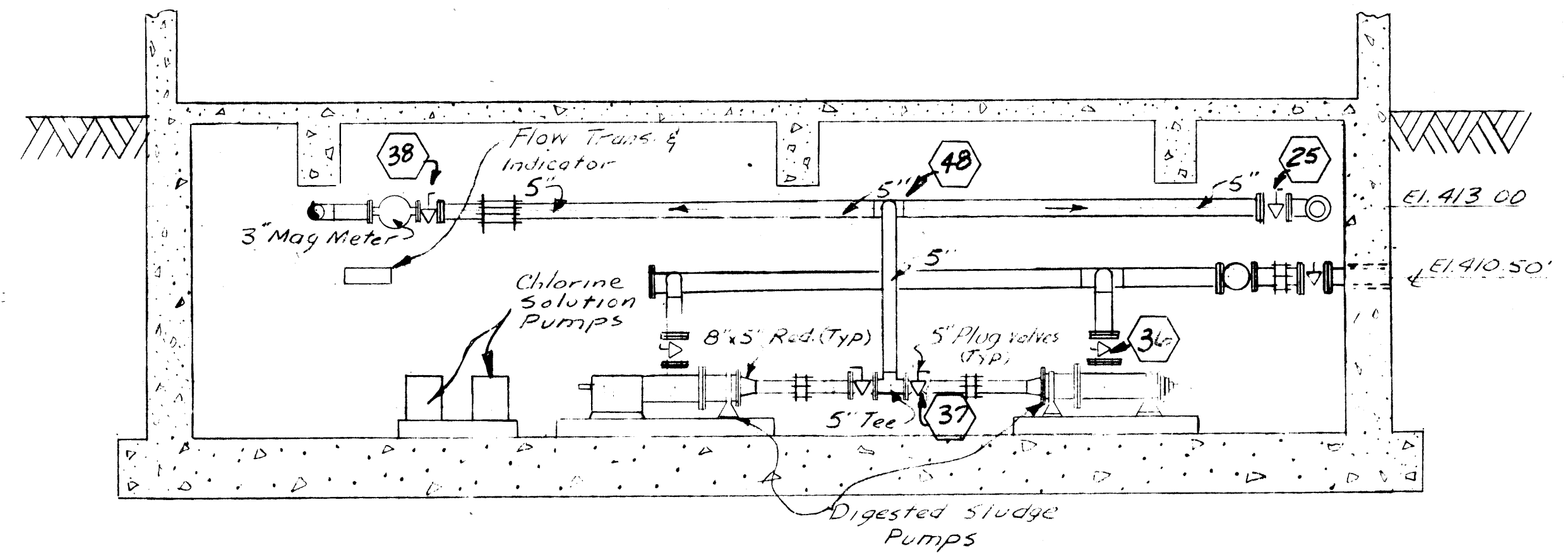
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT  
**SLUDGE PUMP STATION  
PLANS**

O'BRIEN & GERE  
REGISTERED PROFESSIONAL ENGINEERS AND LAND SURVEYORS  
100 WEST 14th STREET  
SARASOTA, FLORIDA 34236  
FEBRUARY 14, 1988  
SCALE: 1/4" = 1'-0"

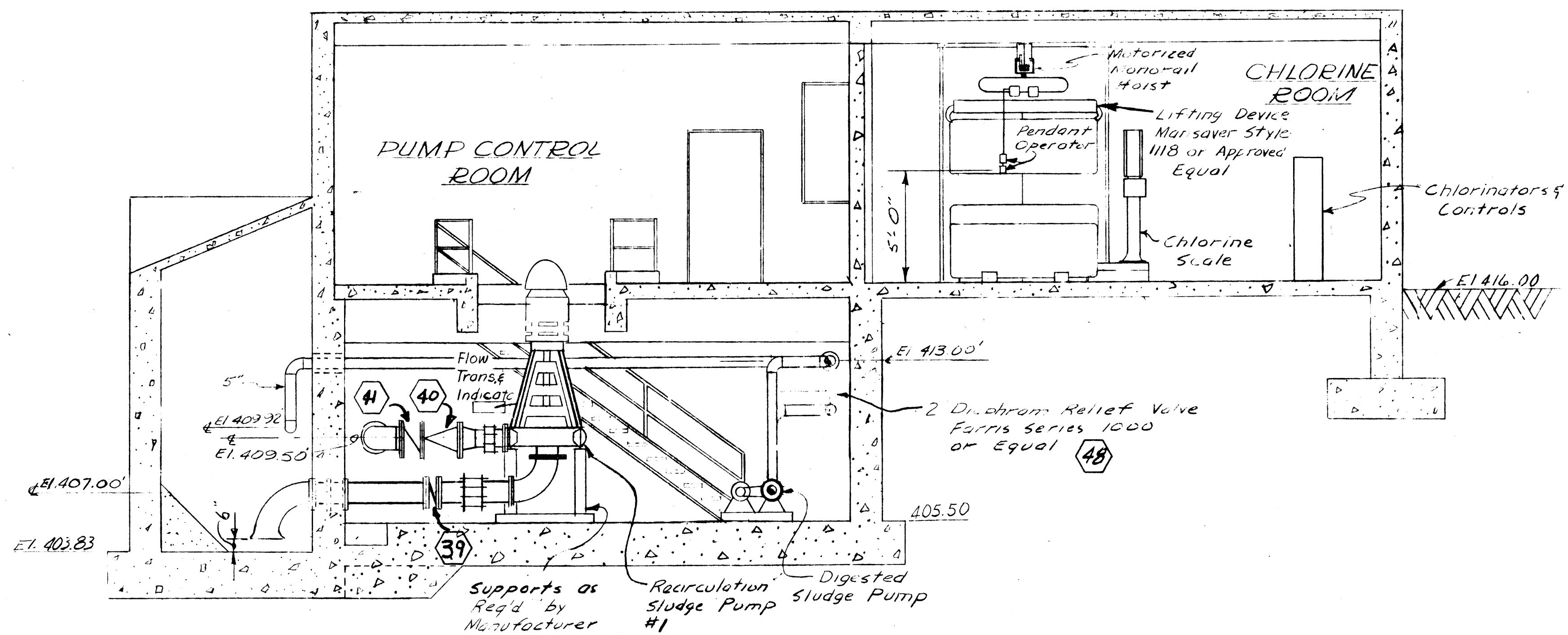




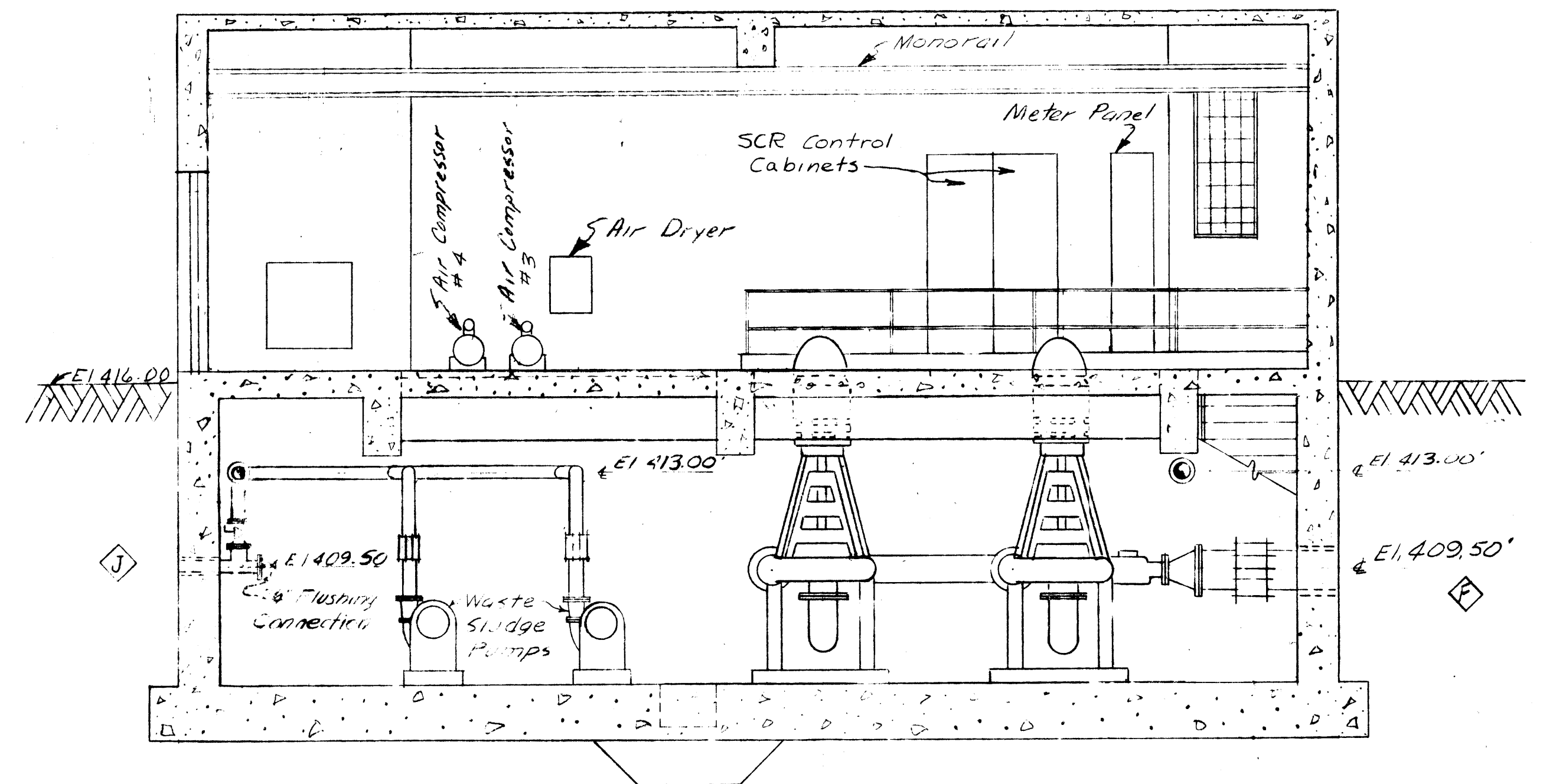
SECTION 3  
M9



SECTION 4  
M9



SECTION 1  
M9



SECTION 2  
M9

- Notes:
- 1) Chlorine Contact Tank Drain Piping not shown see Sheet M-11 Section (S/M11)
  - 2) Monorail shall be Torco-Track as Manufactured by Cleveland Tramrail or Approved Equal. See Structure Sheets for Connection Details.

AS BUILT

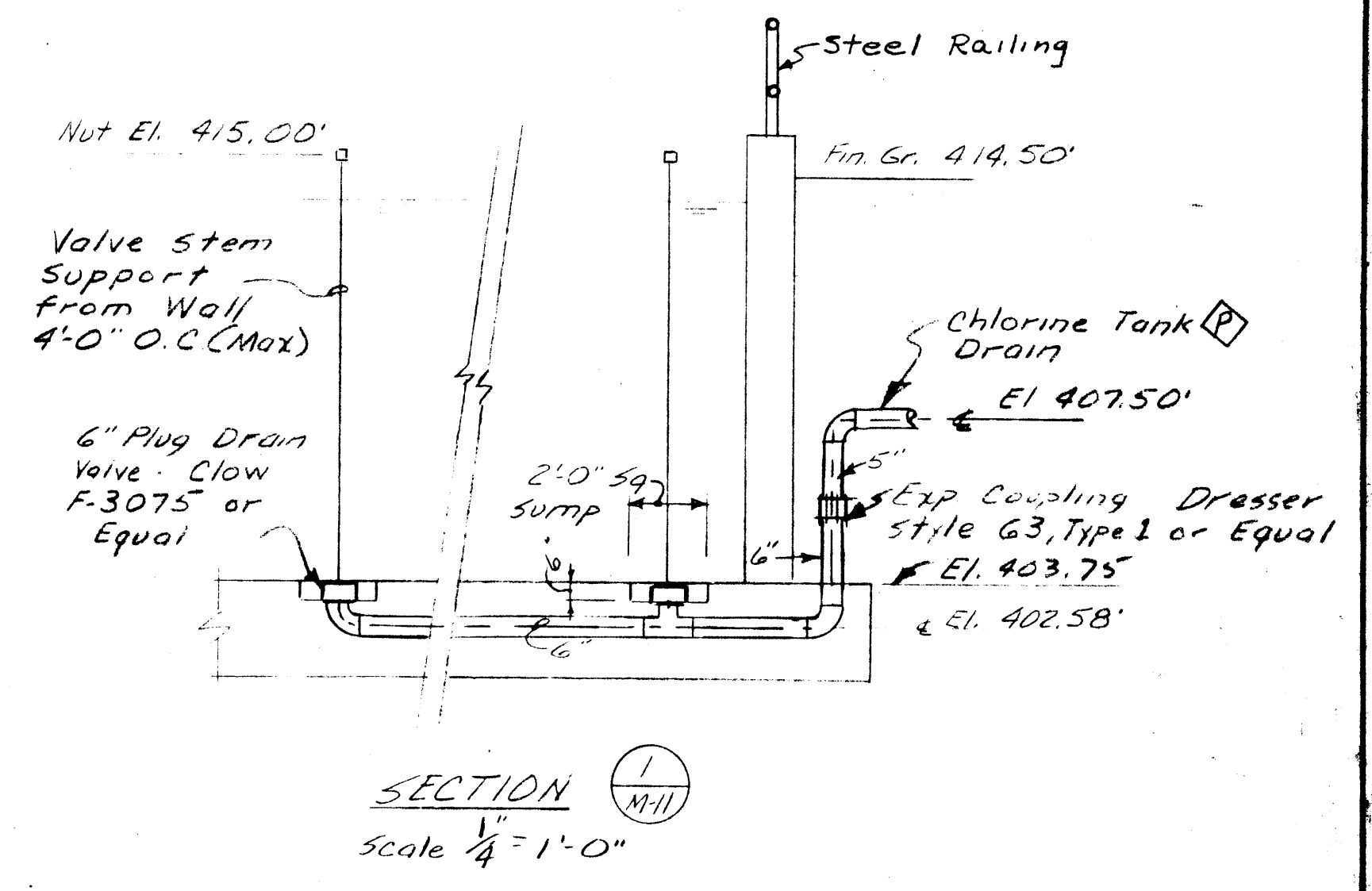
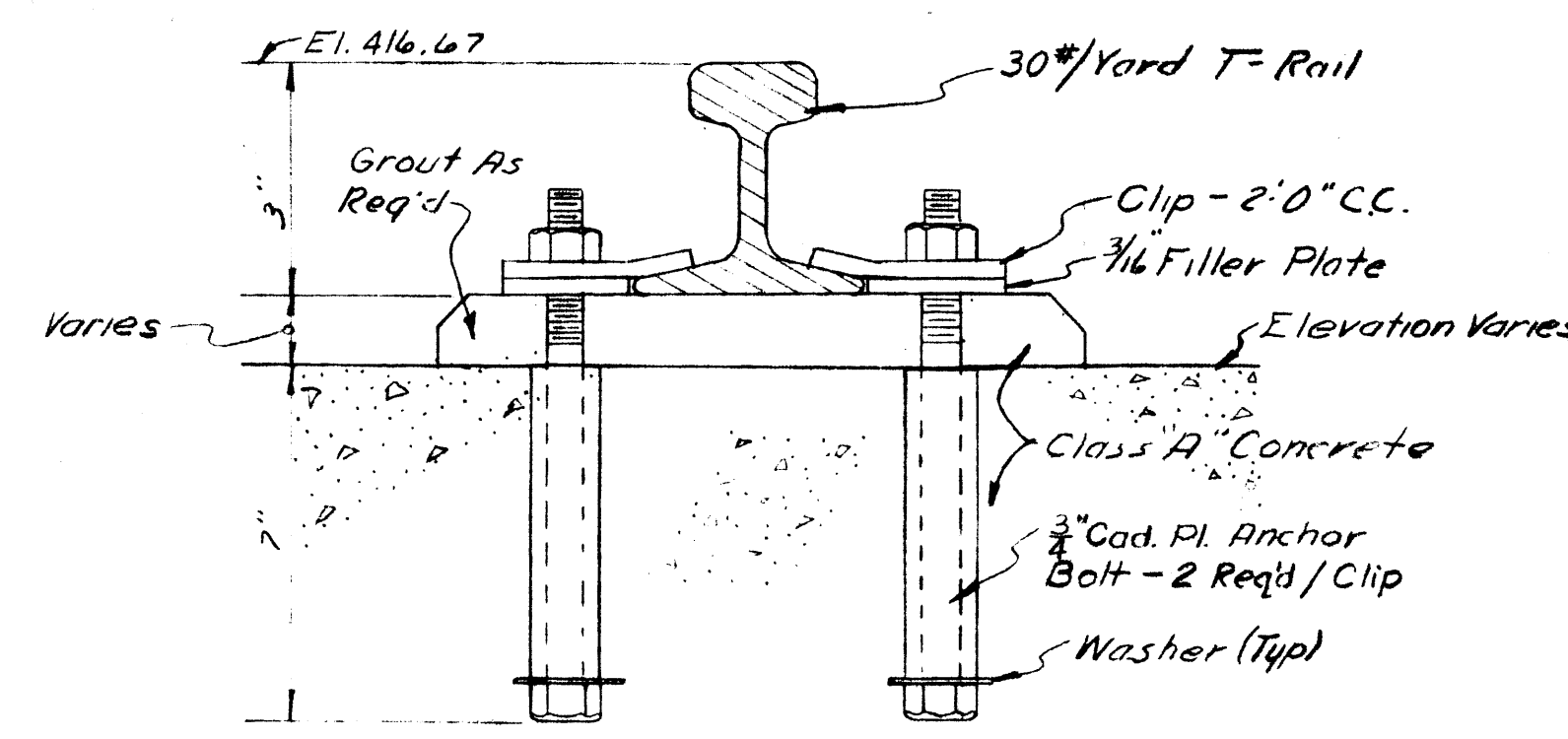
331  
 J.F.  
 J.M.B. 7/7/52  
 J.M.B. 10/1/53  
 J.M.B. 7/2/52

IN CHARGE OF: JDM  
 DESIGNED BY: PCJ  
 MADE BY: MJH  
 CHECKED BY: JDM

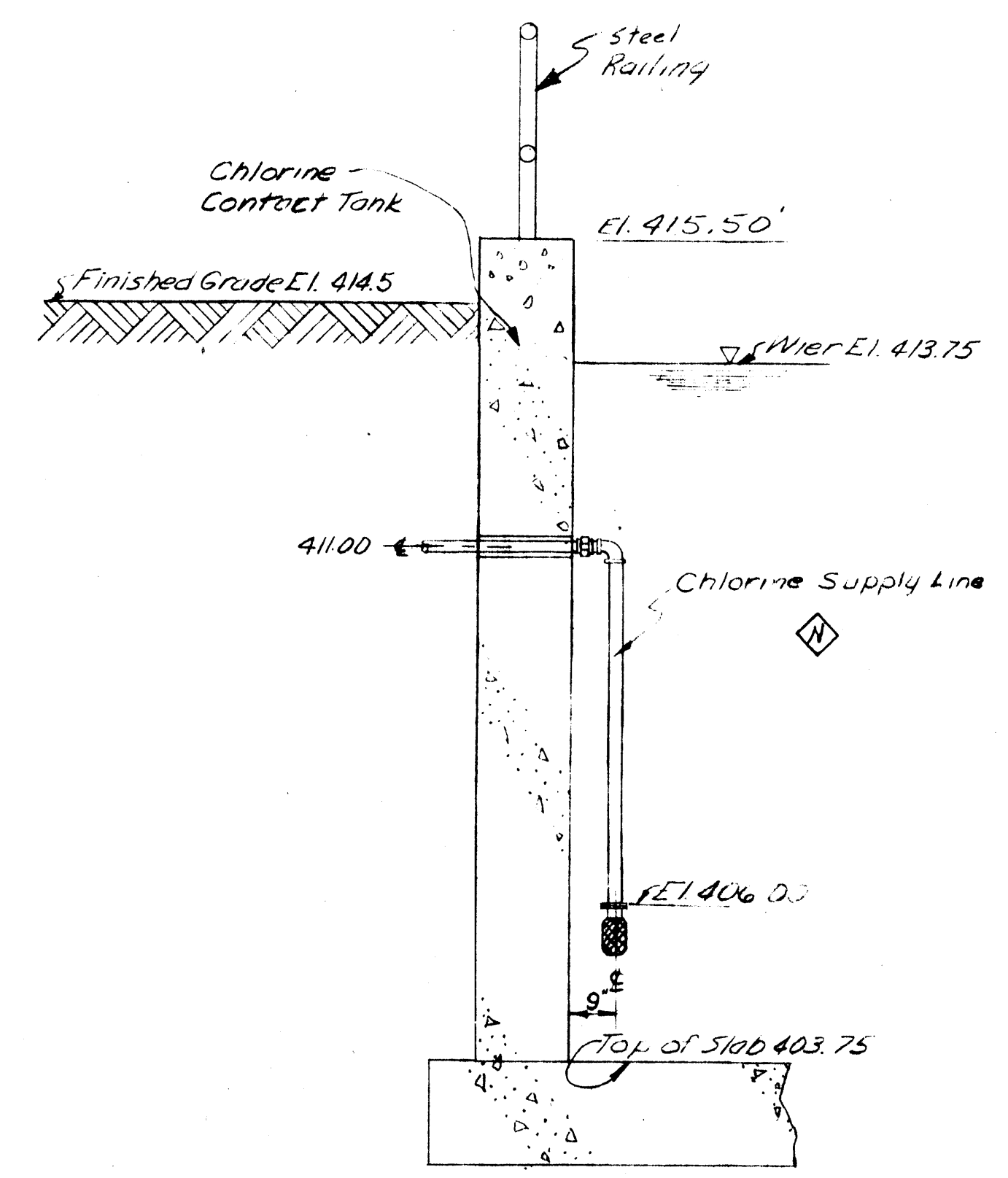


James A. McManis  
 PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

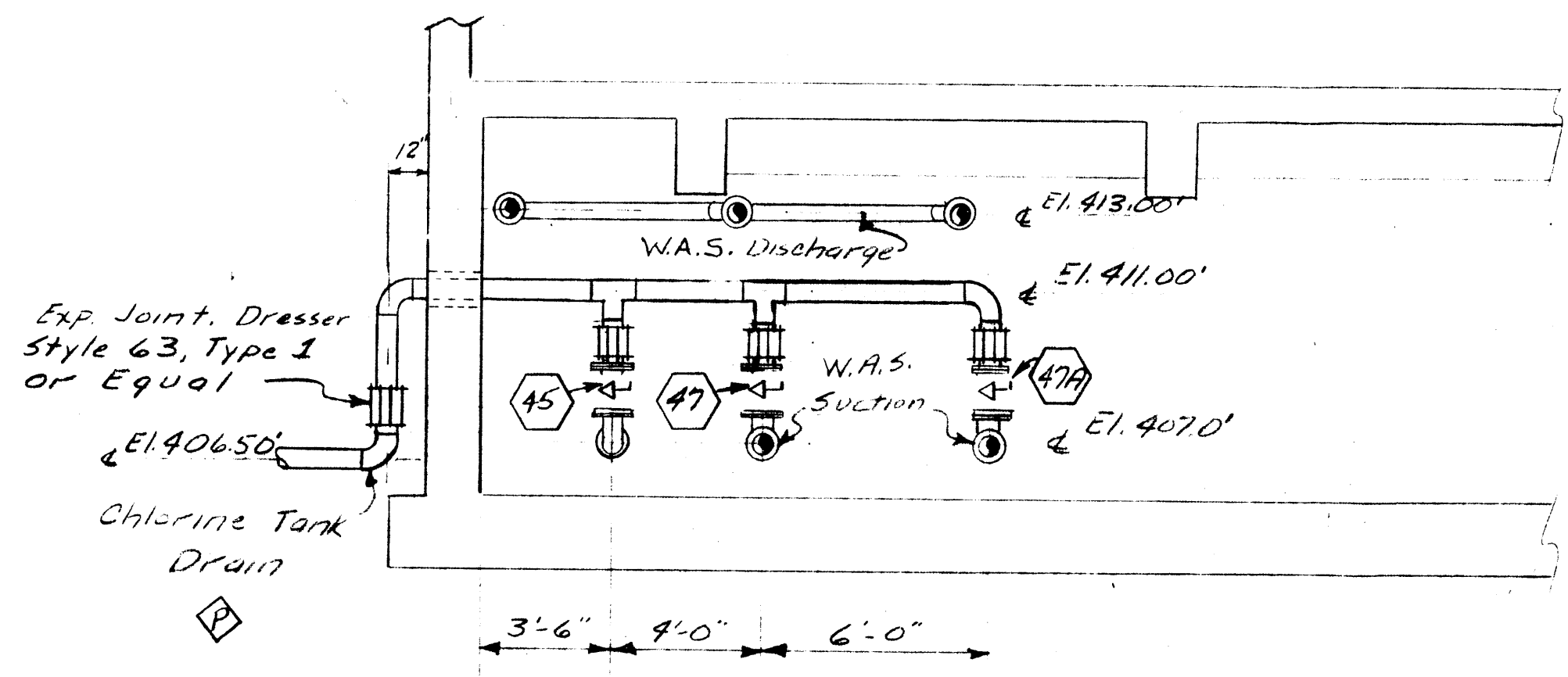
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		
<b>SLUDGE PUMP STATION SECTIONS</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: 1/4" = 1'-0" FILE NO.: 115.149-100F	<b>M-10</b>



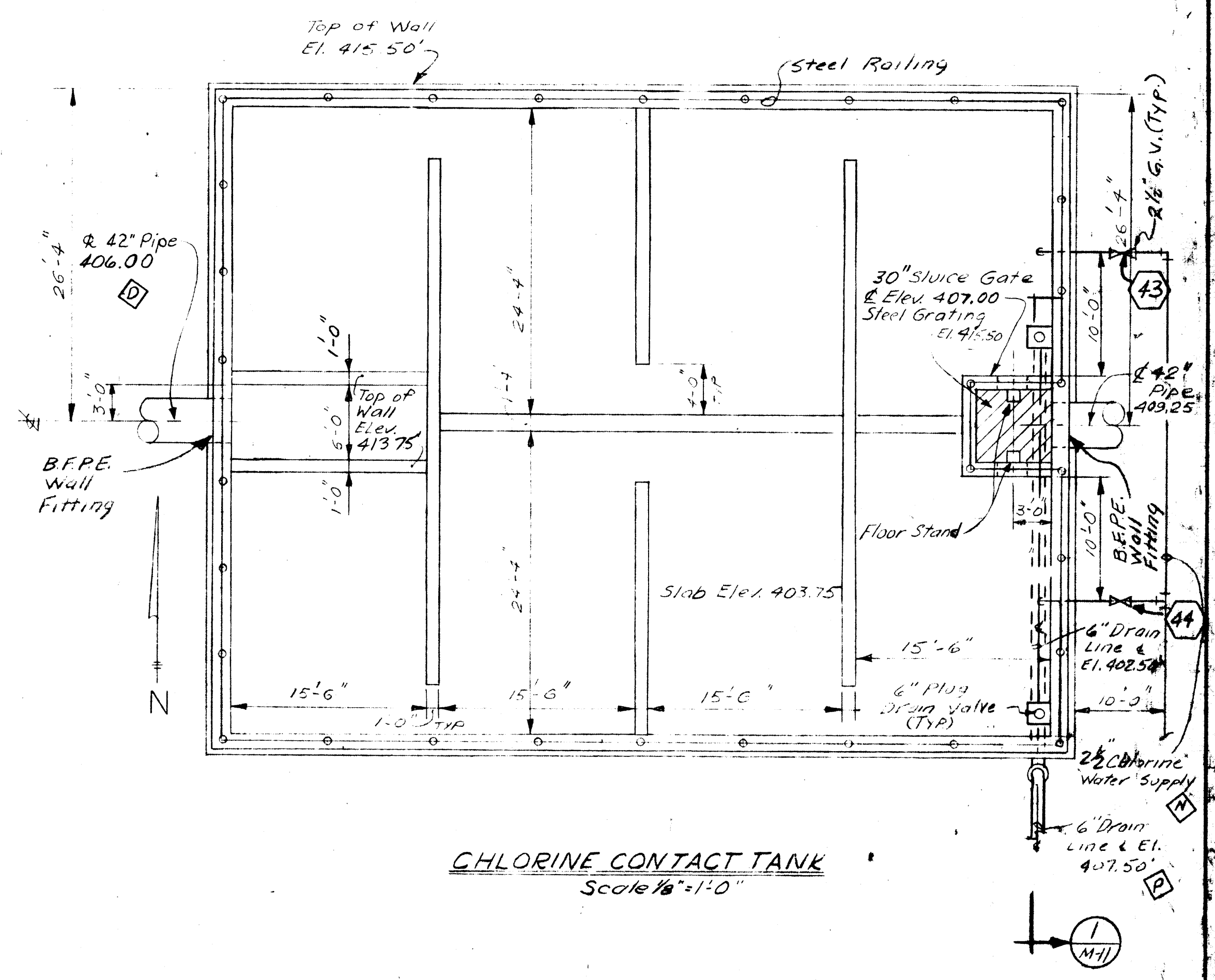
DETAIL-A-  
No Scale



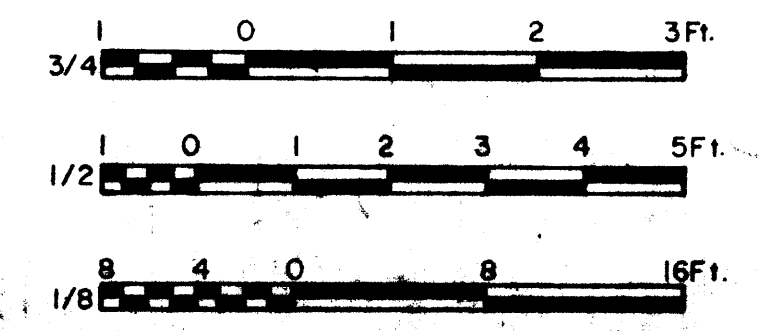
CHLORINE WATER SUPPLY  
Scale 1/2" = 1'-0"



SECTION S  
Scale 1/4" = 1'-0"



CHLORINE CONTACT TANK  
Scale 1/8" = 1'-0"



AS BUILT

331  
DESIGNED BY: J.M.P.  
MADE BY: M.H.  
CHECKED BY: J.M.P.

IN CHARGE OF: J.M.P.  
DESIGNED BY: P.C. WJP  
MADE BY: M.H.  
CHECKED BY: J.M.P.

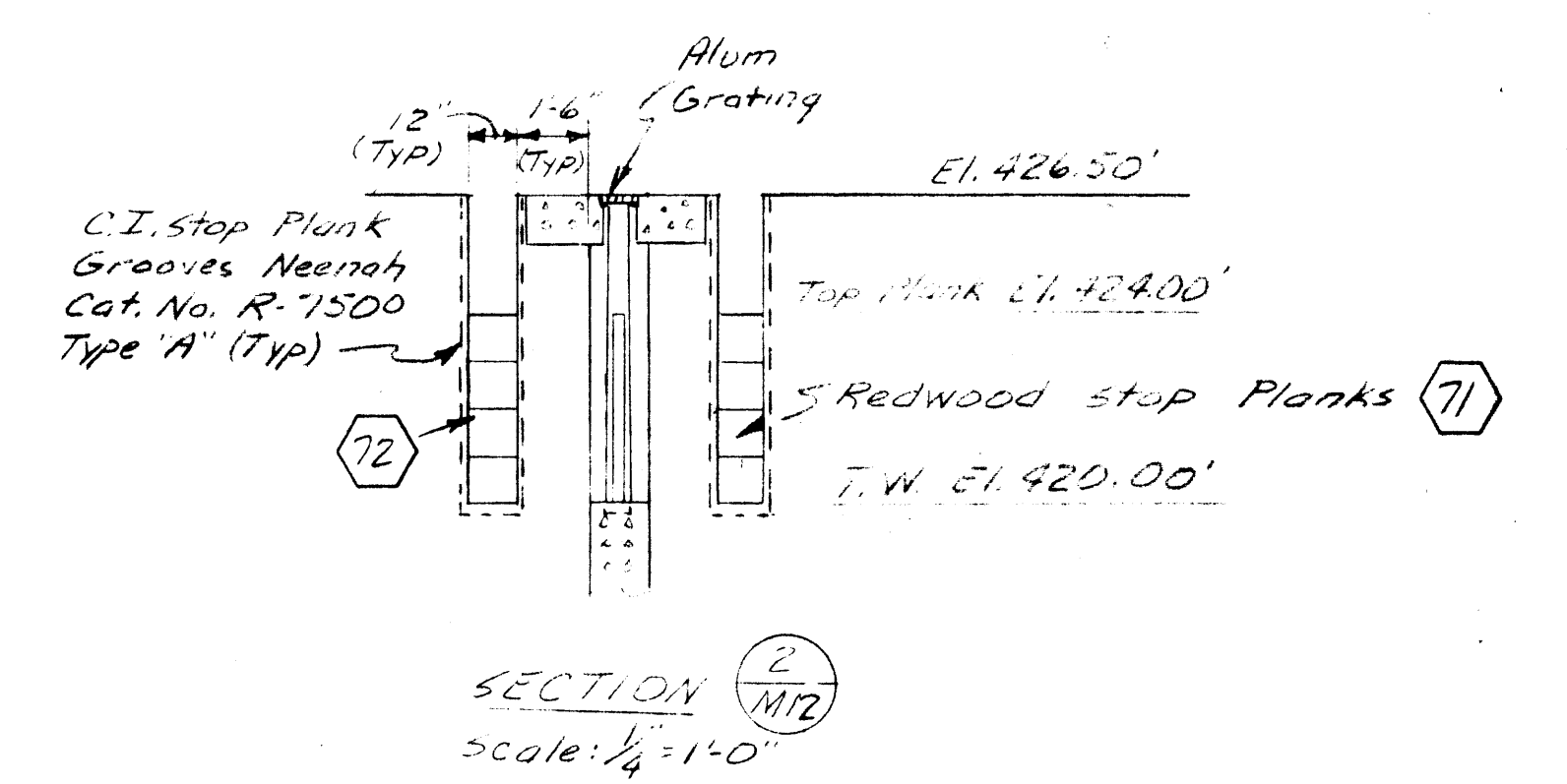
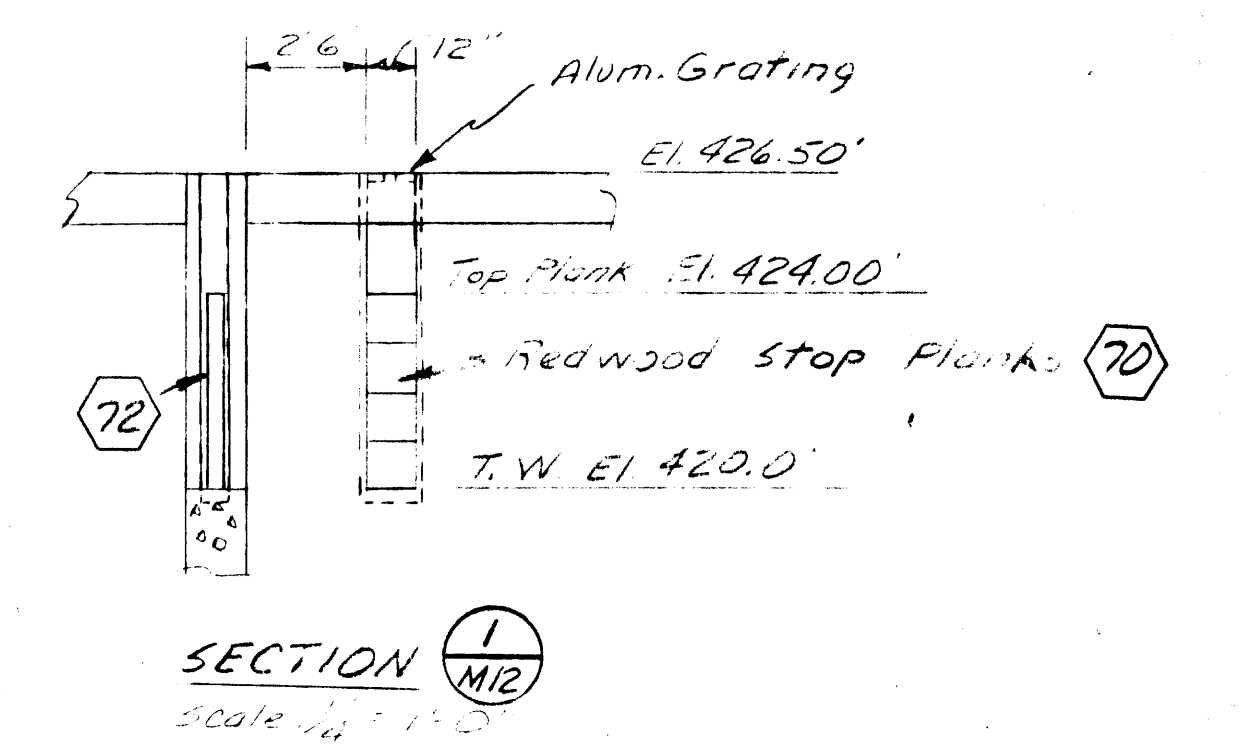
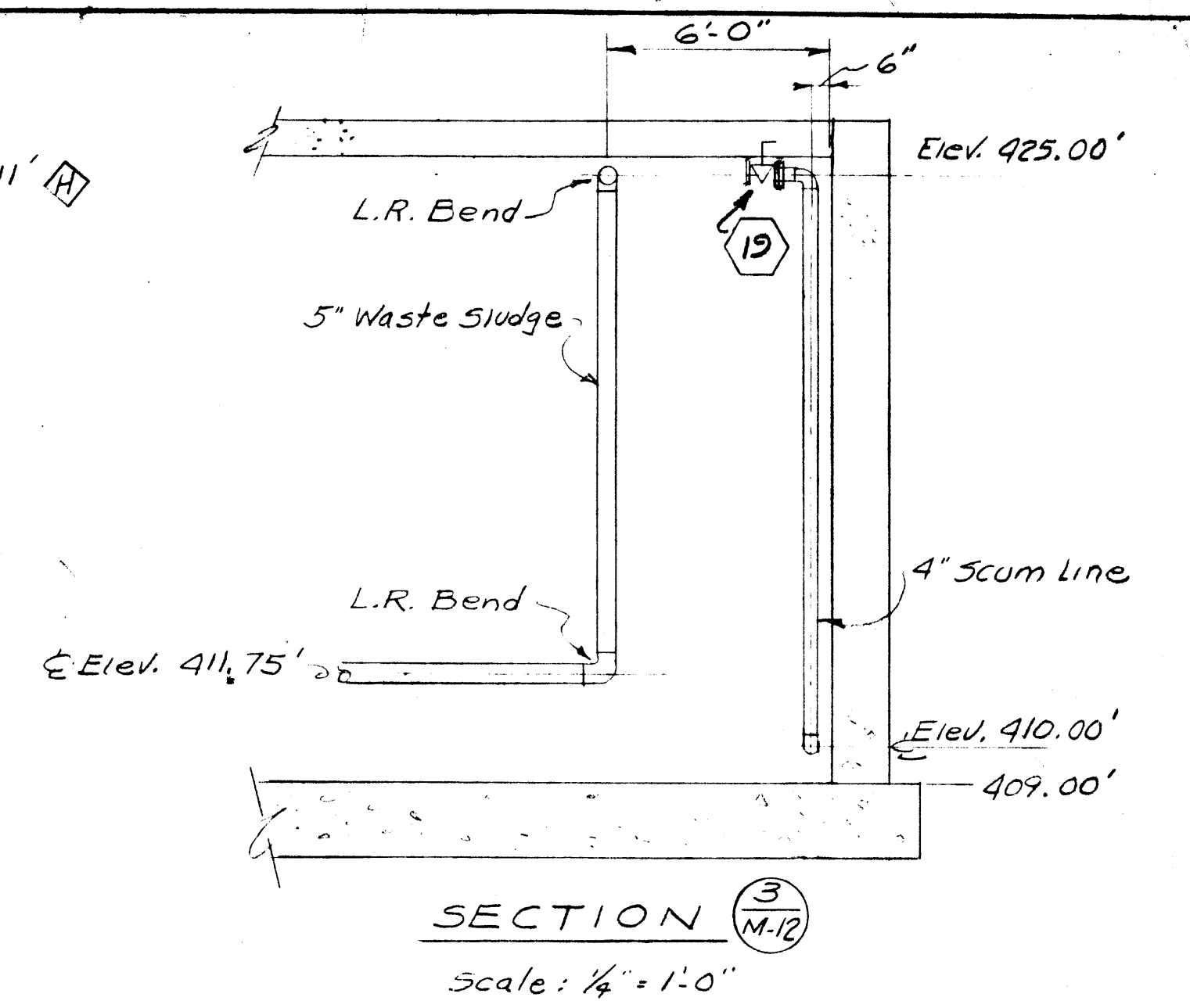
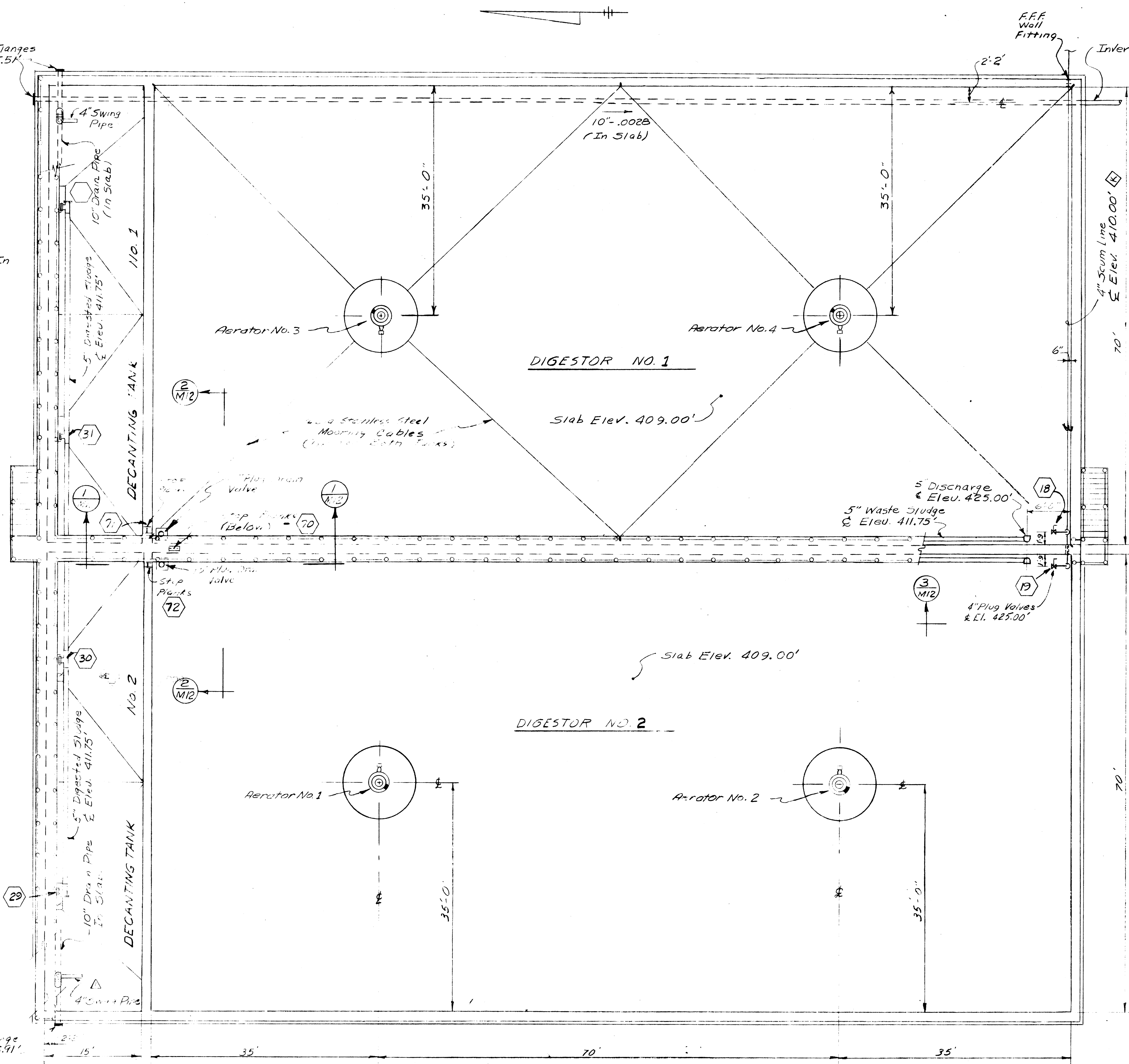
James H. McLean  
PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		
<b>SLUDGE PUMP STATION MISC. DETAILS</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1966 SCALE: AS SHOWN FILE NO.: 15349-101F	



10" Blind Flanges  
Inv. Elev. 405.51'

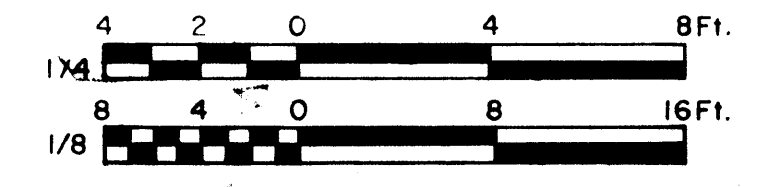
NOTE:  
1) For Details of Piping In  
Decanting Tanks - See  
Sheet M-13.



AS BUILT

Note:  
Unless Otherwise Noted Sleeve  
Pipes Through Walls. See  
Detail Sheet M-5

AEROBIC DIGESTORS - PLAN  
Scale 1/4" = 1'-0"



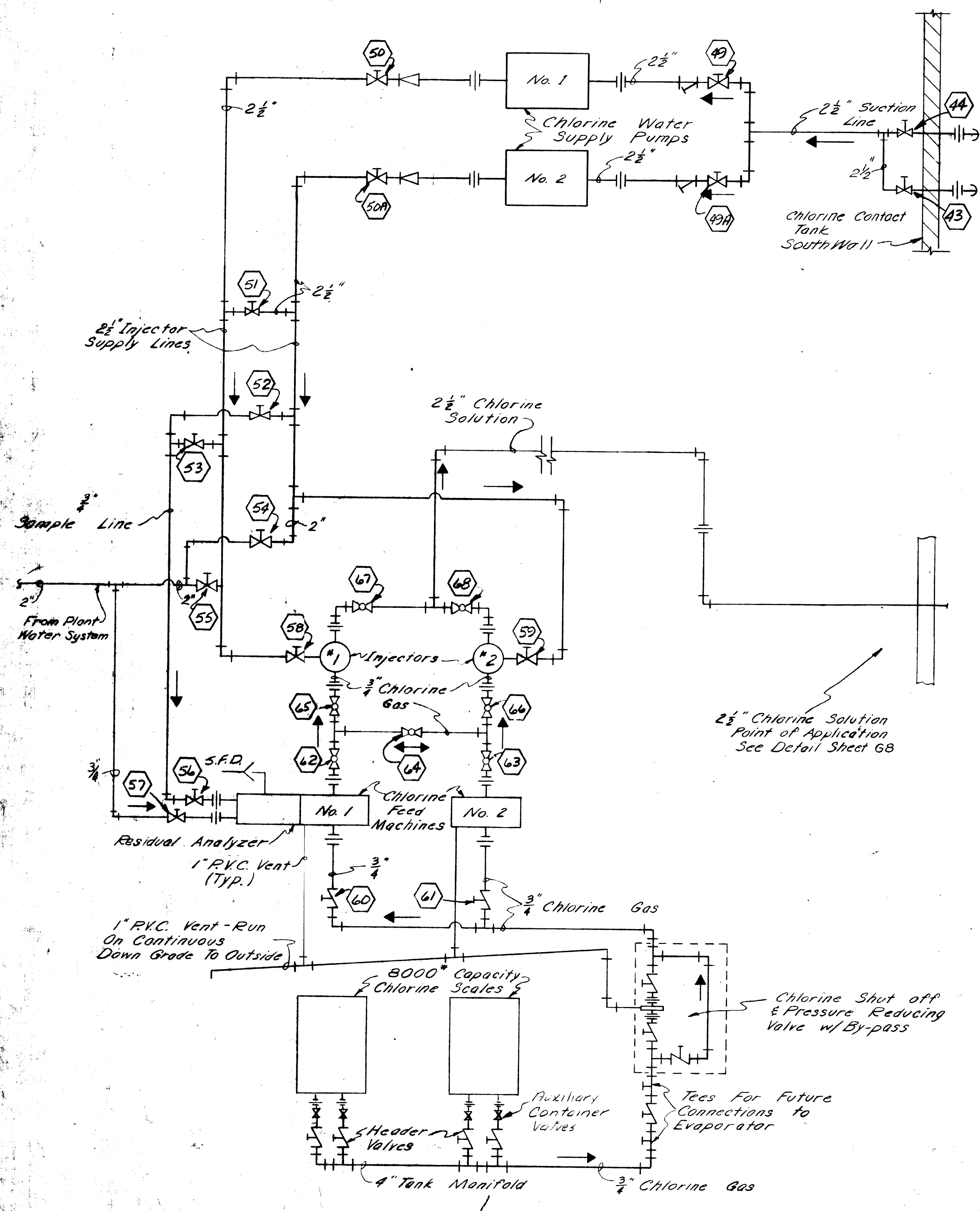
JF 331  
JMB 7/17/72  
JMB 7/17/72  
WJP 7/17/72

IN CHARGE OF: JDM  
DESIGNED BY: WJP, PCJ  
MADE BY: MJH  
CHECKED BY: JDM

Principal Engineer N.Y.S.P.E. Lic. No. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT		Professional Engineer
TREATMENT PLANT <b>AEROBIC DIGESTERS PLAN</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: AS SHOWN FILE NO.: BSM-102 F	Professional Engineer
REVISIONS		

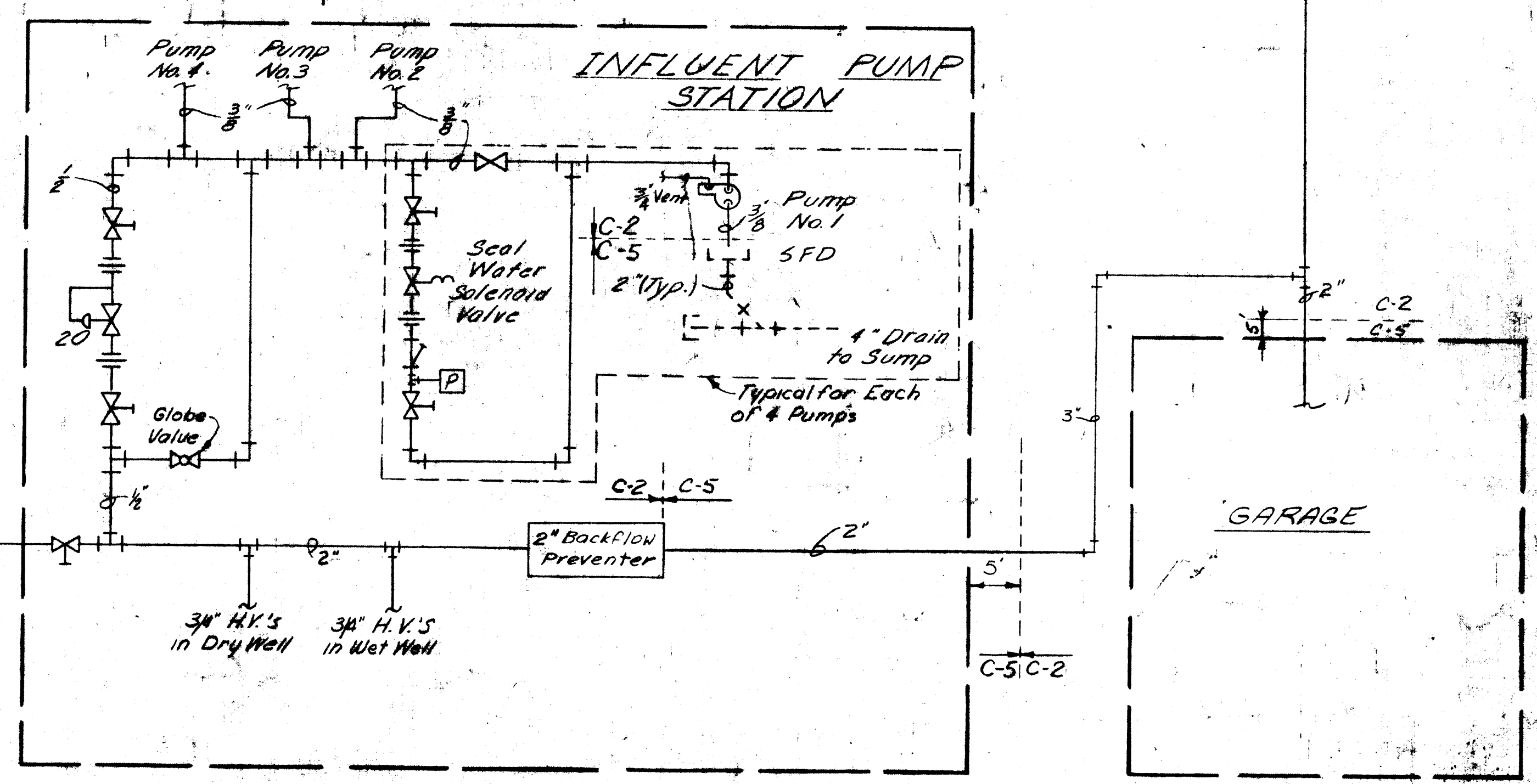
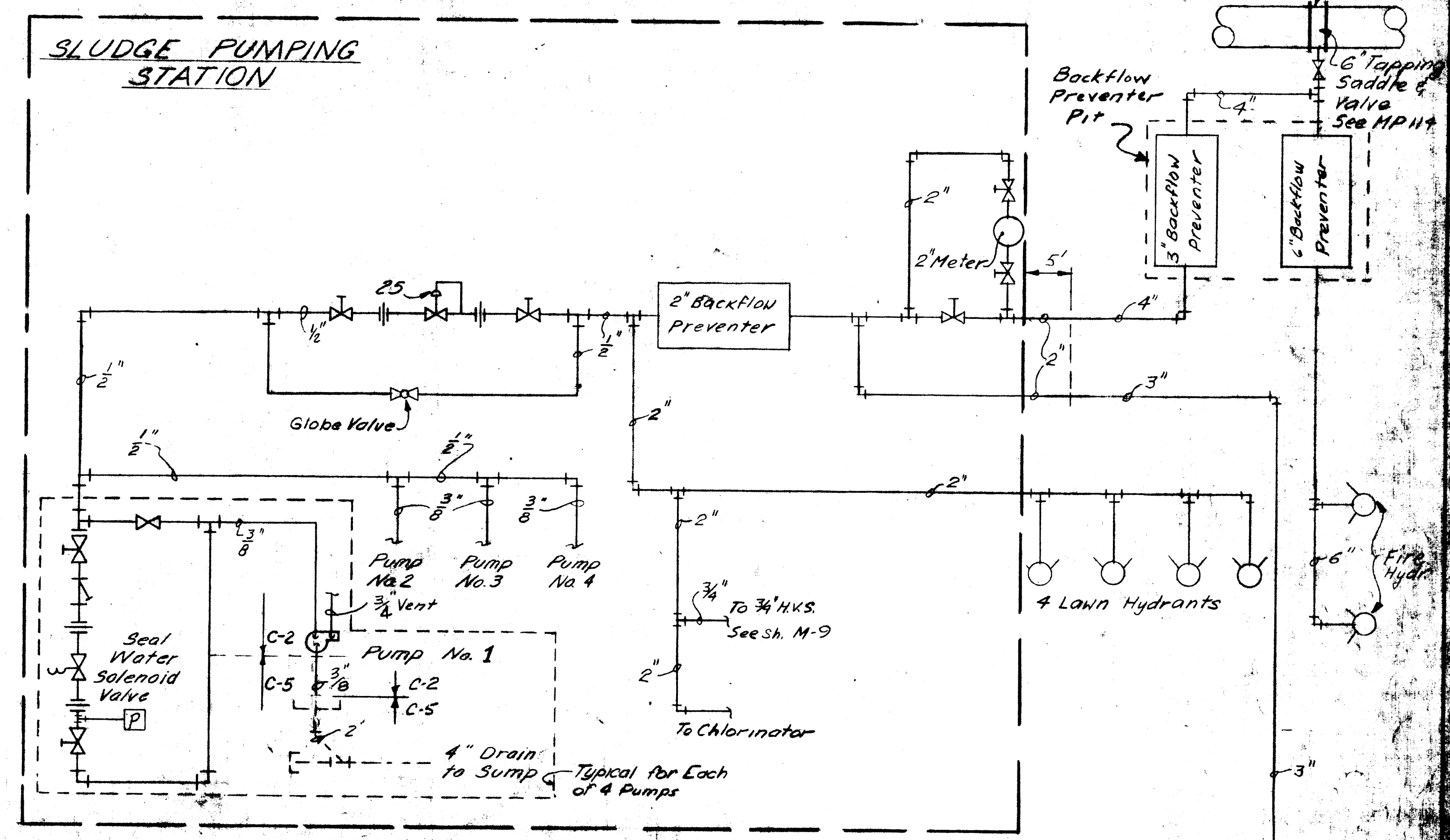




**CHLORINE PIPING SCHEMATIC**  
No Scale

Chlorine Water Supply and Sample Point See Detail Sht. M-11

- Notes**
- Vents for Pumps in the Influent and Sludge Pump Stations shall be sleeved thru the Wall of the Wet Well @ El. 414.00' and terminate with a 90° Bend, Turned Down
  - Extend Vents in Wet Well Influent Pump Station Down to Elev. 402.00'



**WATER SUPPLY SCHEMATIC**  
No Scale

**AS BUILT**

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT

**SCHEMATIC DIAGRAMS**

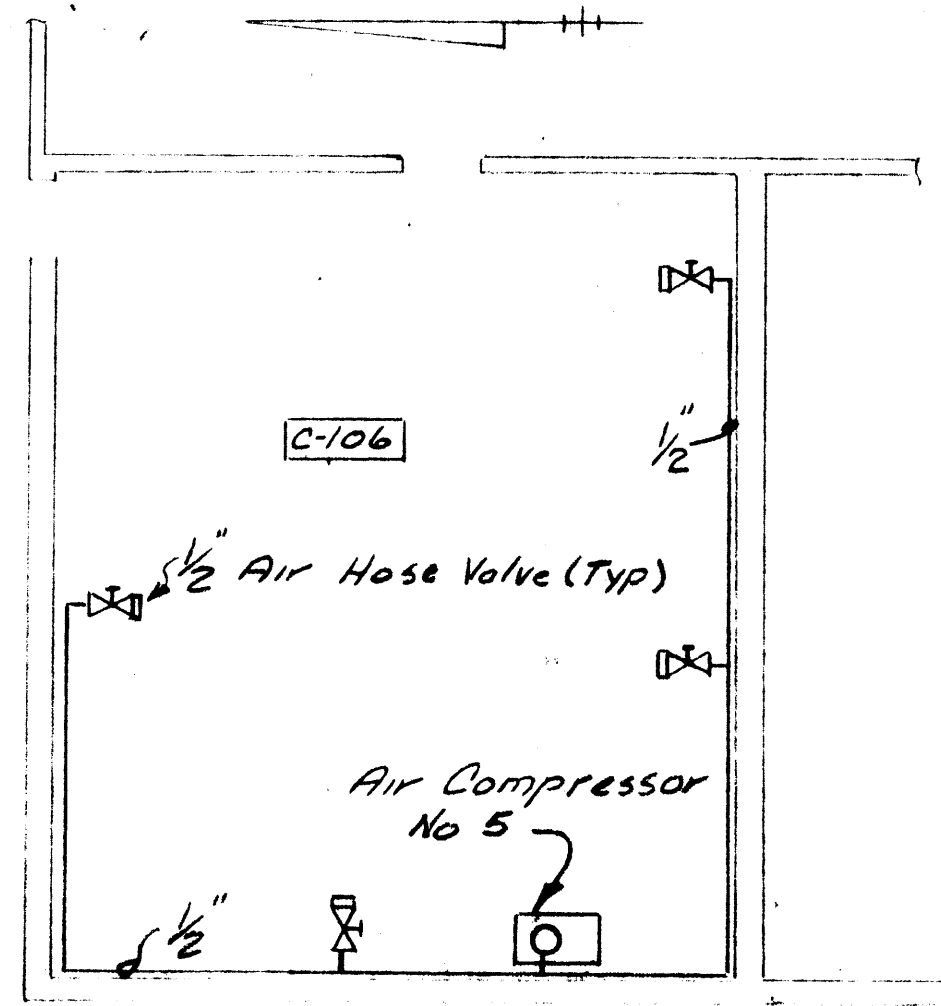


CHERRY & GEE ENGINEERS  
DATE FEBRUARY 14, 1958  
DRAWING NO. 2810  
SHEET NO. 3761

NO. 231  
J.F. 2/17/58  
Checked by J.M.C. 2/17/58  
Designed by J.F. 2/17/58  
Drawn by J.M.C. 2/17/58

Checked by J.M.C.  
Designed by J.F.  
Drawn by J.M.C.



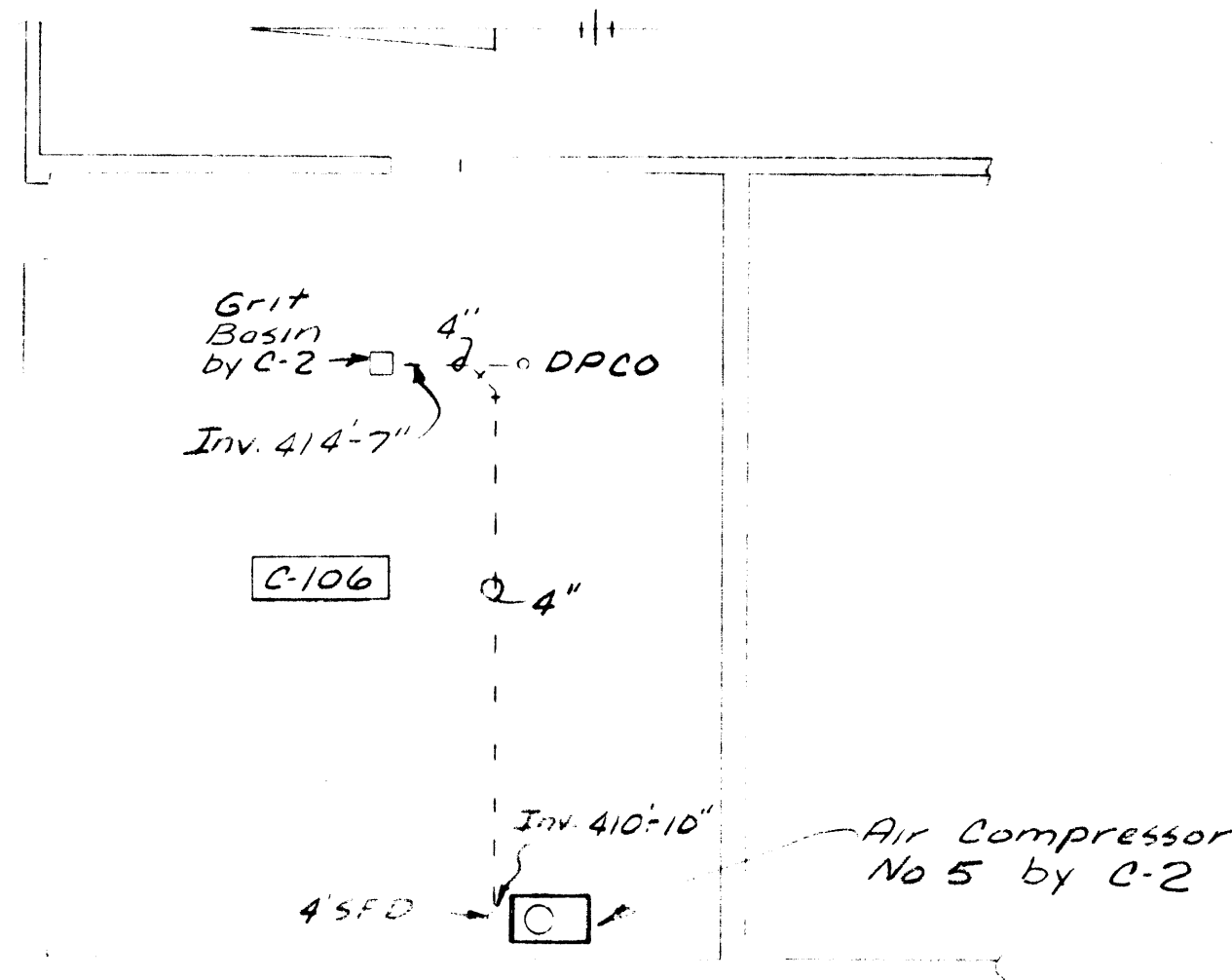


**PLAN**

Air Compressor & Air Piping  
by Contract No. 2

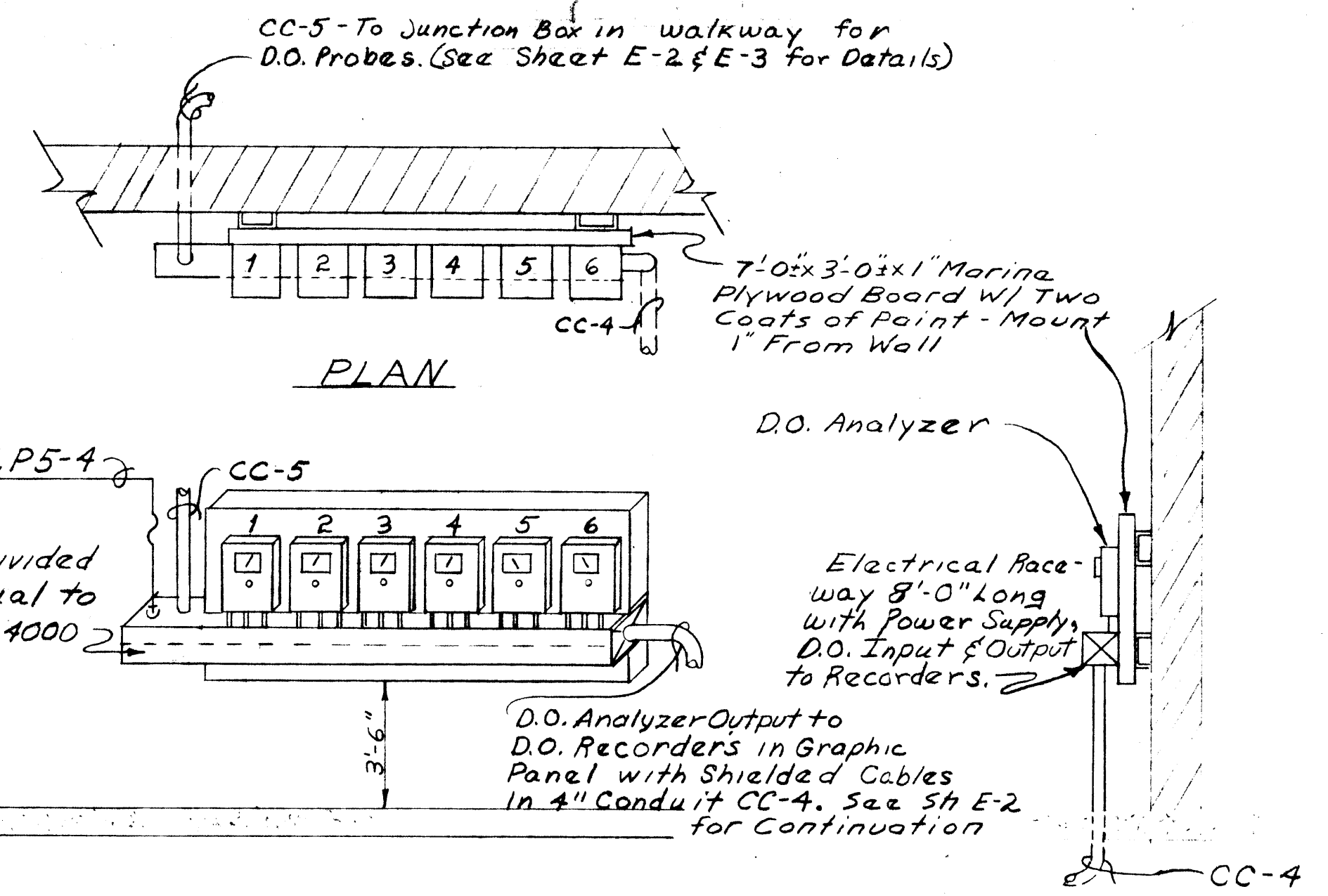
Notes

- 1) Air Compressor, Air Piping and Valves by C-2
- 2) SFD, DPCO and Drain Piping by C-5
- 3) Air Piping shall be Copper (L) with Soldered Joints and shall be Tested to 125 psi



**PLAN**

Additional Drain Piping  
by Contract No 5

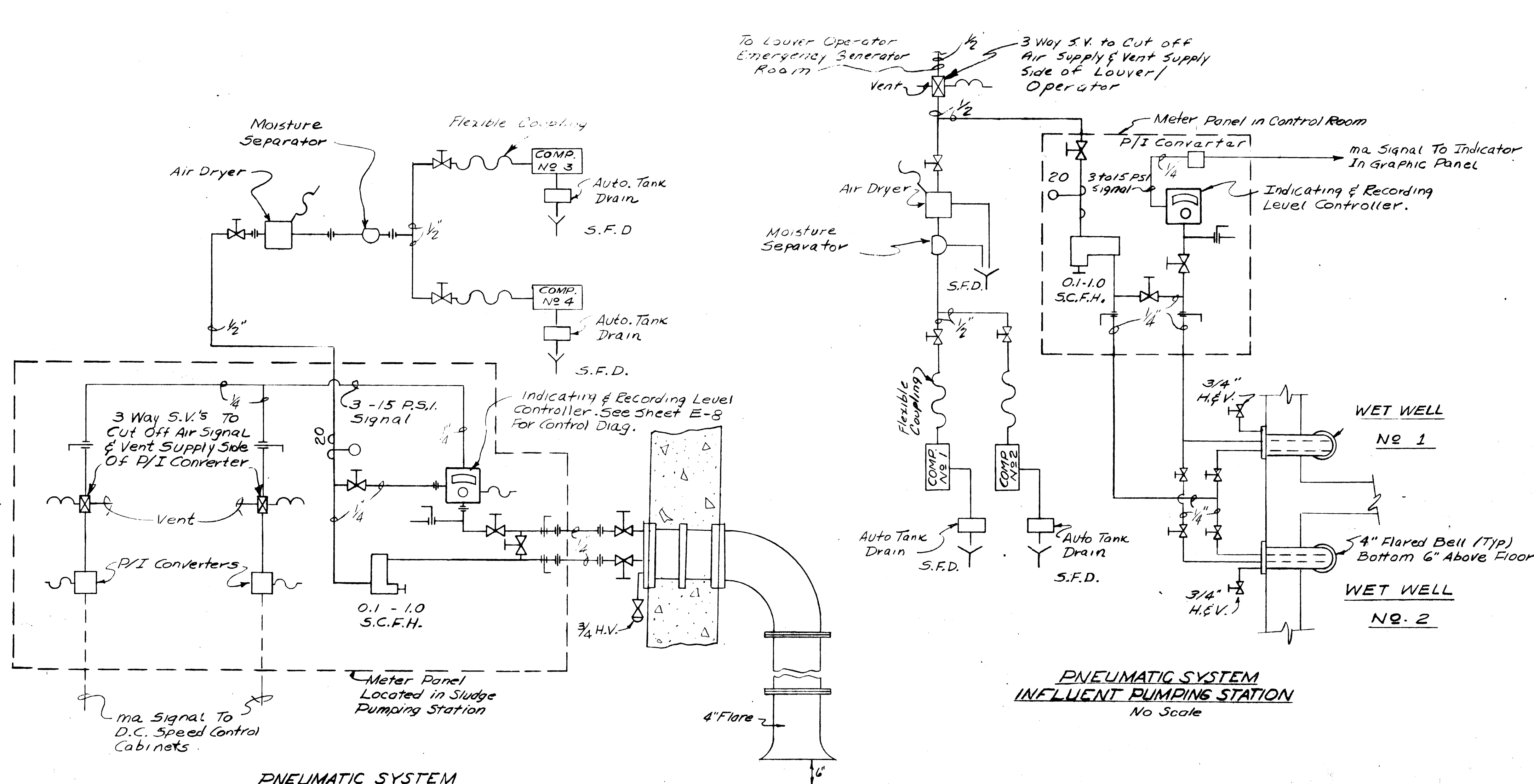


**FRONT ELEVATION**

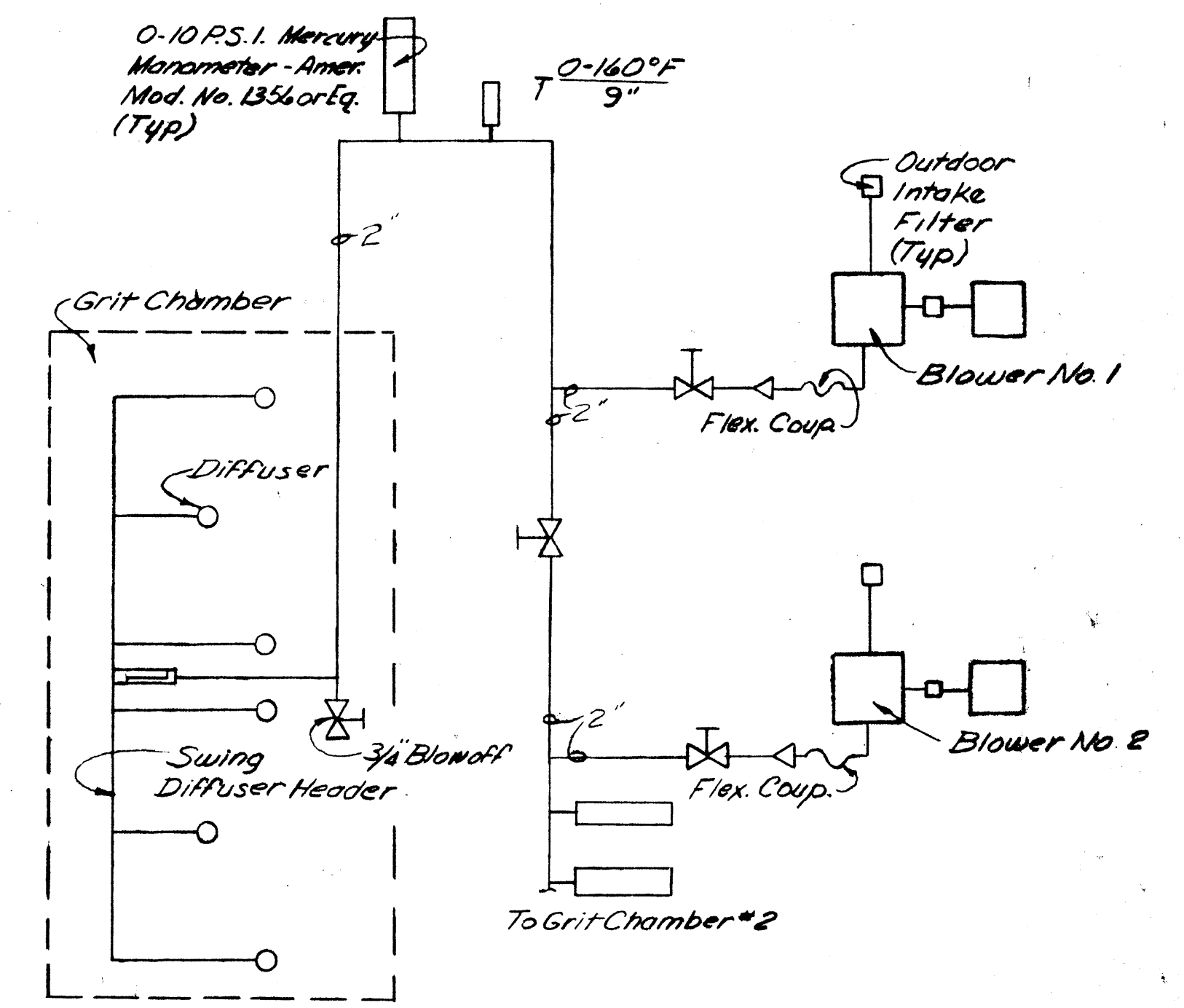
**END ELEVATION**

NOTE: For Location  
(See Sheet E-3)

**DISSOLVED OXYGEN ANALYZER PANELBOARD**  
No Scale



**PNEUMATIC SYSTEM  
INFLUENT PUMPING STATION**  
No Scale



**GRIT CHAMBER AERATION  
PIPING SCHEMATIC**  
No Scale

**PNEUMATIC SYSTEM  
SLUDGE PUMPING STATION**  
No Scale

**AS BUILT**

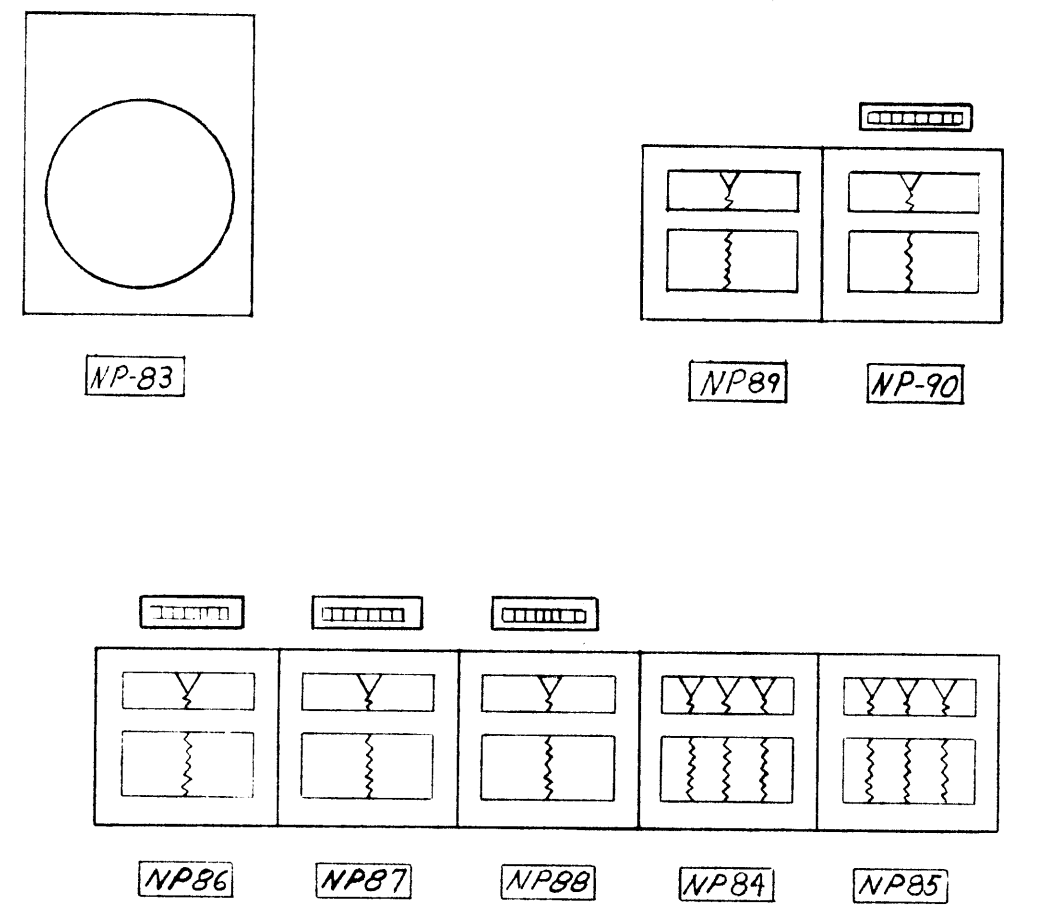
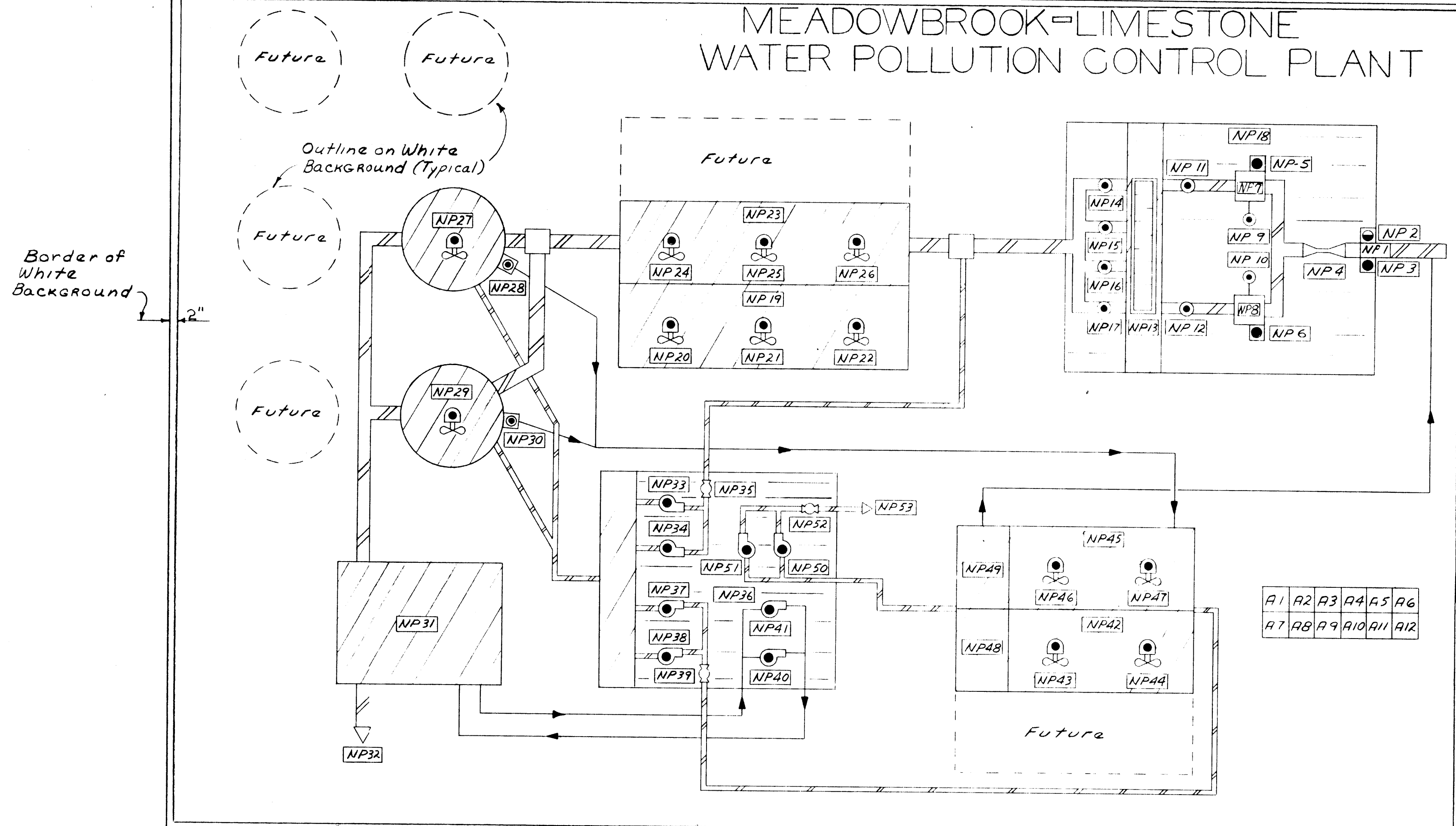
331  
JMB  
JMB  
JMB  
JMB

IN CHARGE OF: JDM  
DESIGNED BY: WJP  
CHECKED BY: JMB  
JDM

James D. G. [Signature]  
PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

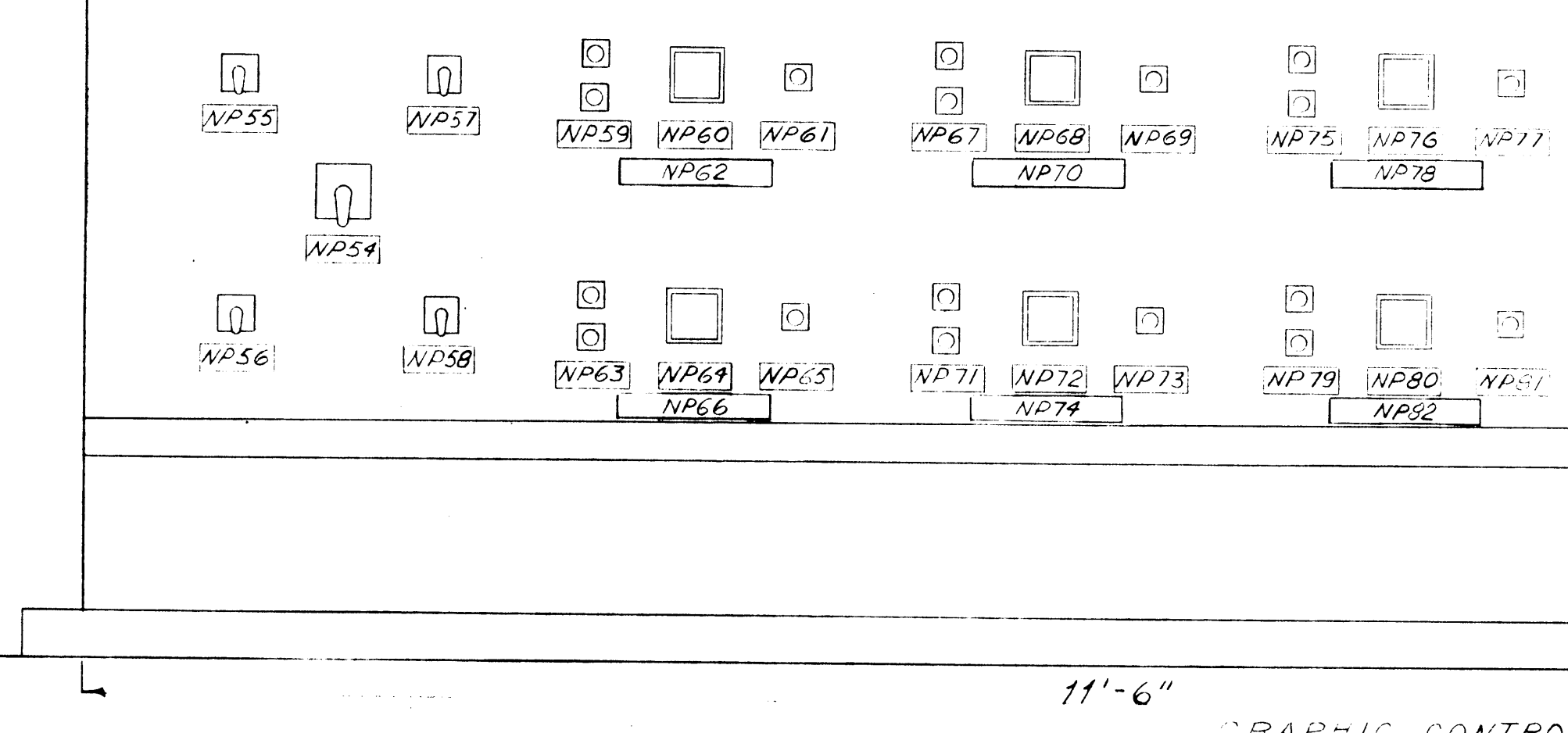
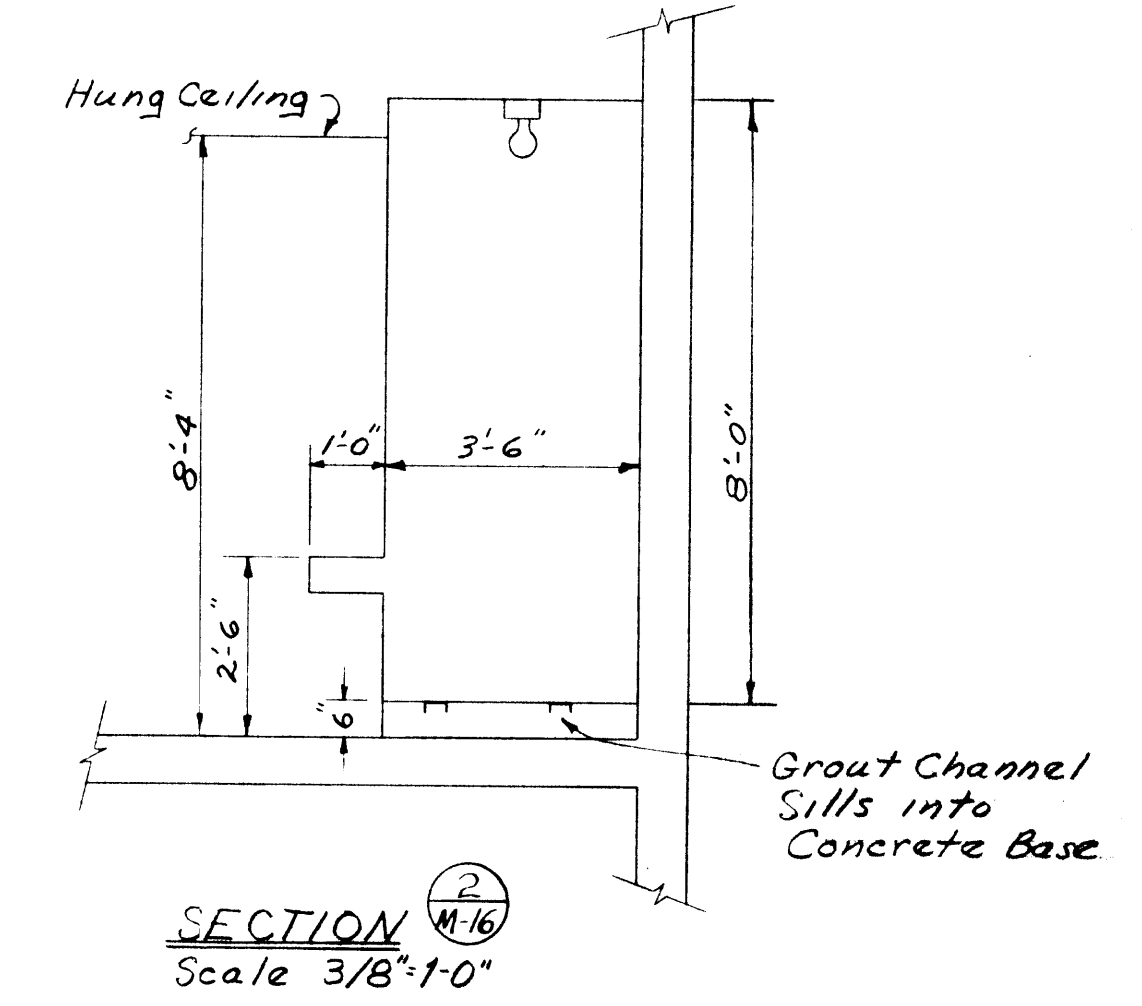
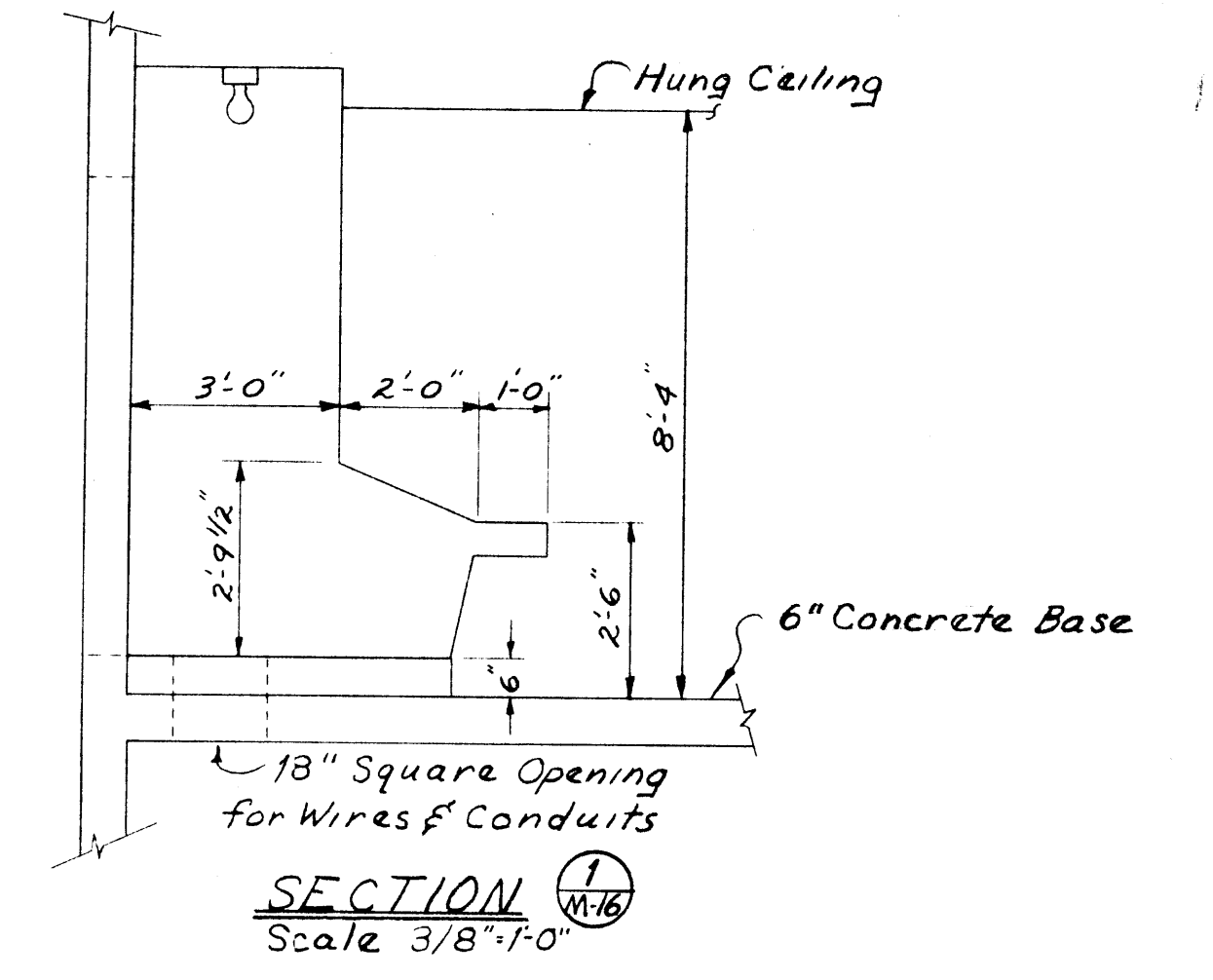
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		
<b>SCHEMATIC DIAGRAM</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: AS SHOWN FILE NO: 105F	M15

# MEADOWBROOK-LIMESTONE WATER POLLUTION CONTROL PLANT



### SCHEDULE OF COLORS

- Blue-Gray
  - Gray (Charcoal)
  - Black
  - White
- Basic Panel Color - Primary Blue  
Instrument Cases  
Control Station Labels  
and Nameplates - Black (White Letters)



### NAMEPLATE SCHEDULE

PROCESS	DESCRIPTION
NP-1	Sluice Gate
NP-2	Up
NP-3	Down
NP-4	Parshall Flume
NP-5	Grit Collector No. 1
NP-6	Grit Collector No. 2
NP-7	Grit Chamber No. 1
NP-8	Grit Chamber No. 2
NP-9	Grit Blower No. 1
NP-10	Grit Blower No. 2
NP-11	Comminutor No. 1
NP-12	Comminutor No. 2
NP-13, 15, 16, 17	Influent Pumps 1, 2, 3 & 4
NP-18	Influent Pumping Station
NP-19	Aeration Tank No. 1
NP-20	Aerator No. 1
NP-21	Aerator No. 2
NP-22	Aerator No. 3
NP-23	Aeration Tank No. 2
NP-24	Aerator No. 4
NP-25	Aerator No. 5
NP-26	Aerator No. 6
NP-27	Settling Tank No. 2
NP-28	Scum Pump No. 2
NP-29	Settling Tank No. 1
NP-30	Scum Pump No. 1
NP-31	Chlorine Contact Tank
NP-32	To Limestone Creek
NP-33	Recirculation Sludge Pump No. 1
NP-34	Recirculation Sludge Pump No. 2

NP-35	Recirculation Sludge Meter
NP-36	Sludge Pumping Station
NP-37	Waste Sludge Pump No. 1
NP-38	Waste Sludge Pump No. 2
NP-39	Waste Sludge Meter
NP-40	Chlorine Pump No. 1
NP-41	Chlorine Pump No. 2
NP-42	Aerobic Digester Tank No. 1
NP-43	Aerator No. 1
NP-44	Aerator No. 2
NP-45	Aerobic Digester Tank No. 2
NP-46	Aerator No. 3
NP-47	Aerator No. 4
NP-48	Decantant Tank No. 1
NP-49	Decantant Tank No. 2
NP-50	Digested Sludge Pump No. 1
NP-51	Digested Sludge Pump No. 2
NP-52	Digested Sludge Meter
NP-53	To Drying Beds

NP-74	Aerator No. 4
NP-78	Aerator No. 5
NP-82	Aerator No. 6

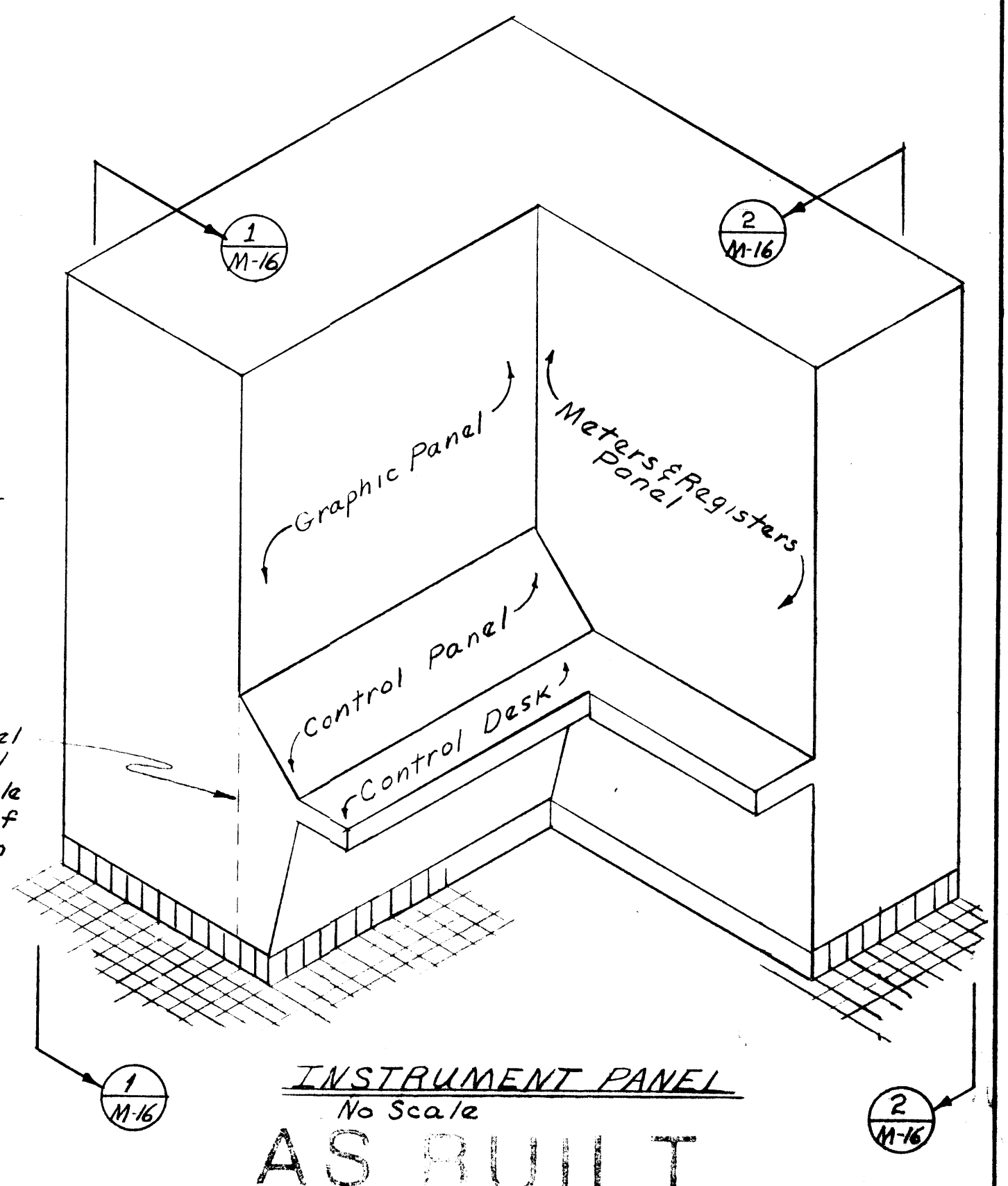
### INDICATORS, RECORDERS & TOTALIZERS

NP-13	Wet Well Level
NP-83	Wet Well Level
NP-84	Dissolved Oxygen Nos. 1, 2 & 3
NP-85	Dissolved Oxygen Nos. 4, 5 & 6
NP-86	Recirculation Sludge Flow
NP-87	Waste Sludge Flow
NP-88	Digested Sludge Flow
NP-89	Chlorine Residuals
NP-90	Influent Flow

### ANNUNCIATORS

A-1	Sluice Gate Closed
A-2	High Water Level Influent Flume
A-3	High Water Level Wet Well Influent Pumping Station
A-4	Low Water Level Wet Well Influent Pumping Station
A-5	Overload Settling Tank No. 1
A-6	Overload Settling Tank No. 2
A-7	High Water Level Wet Well Sludge Pumping Station
A-8	Low Water Level Wet Well Sludge Pumping Station
A-9	Low Chlorine Residual Effluent
A-10	Chlorine Loss of Weight
A-11	Loss of Air Sludge Pumping Station
A-12	Loss of Air Influent Pumping Station
A-13	Test Pushbutton
A-14	Flasher

Notes  
Nameplates No. 18, 19, 23, 27, 29, 31, 36, 42, 45, 48, 49 shall be larger in size with larger lettering denoting an apparent contrast with the other nameplates.



ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT

## INSTRUMENTATION

O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
SYRACUSE, NEW YORK

DATE: FEBRUARY 14, 1968  
SCALE: NO SCALE  
FILE NO.: 115.149

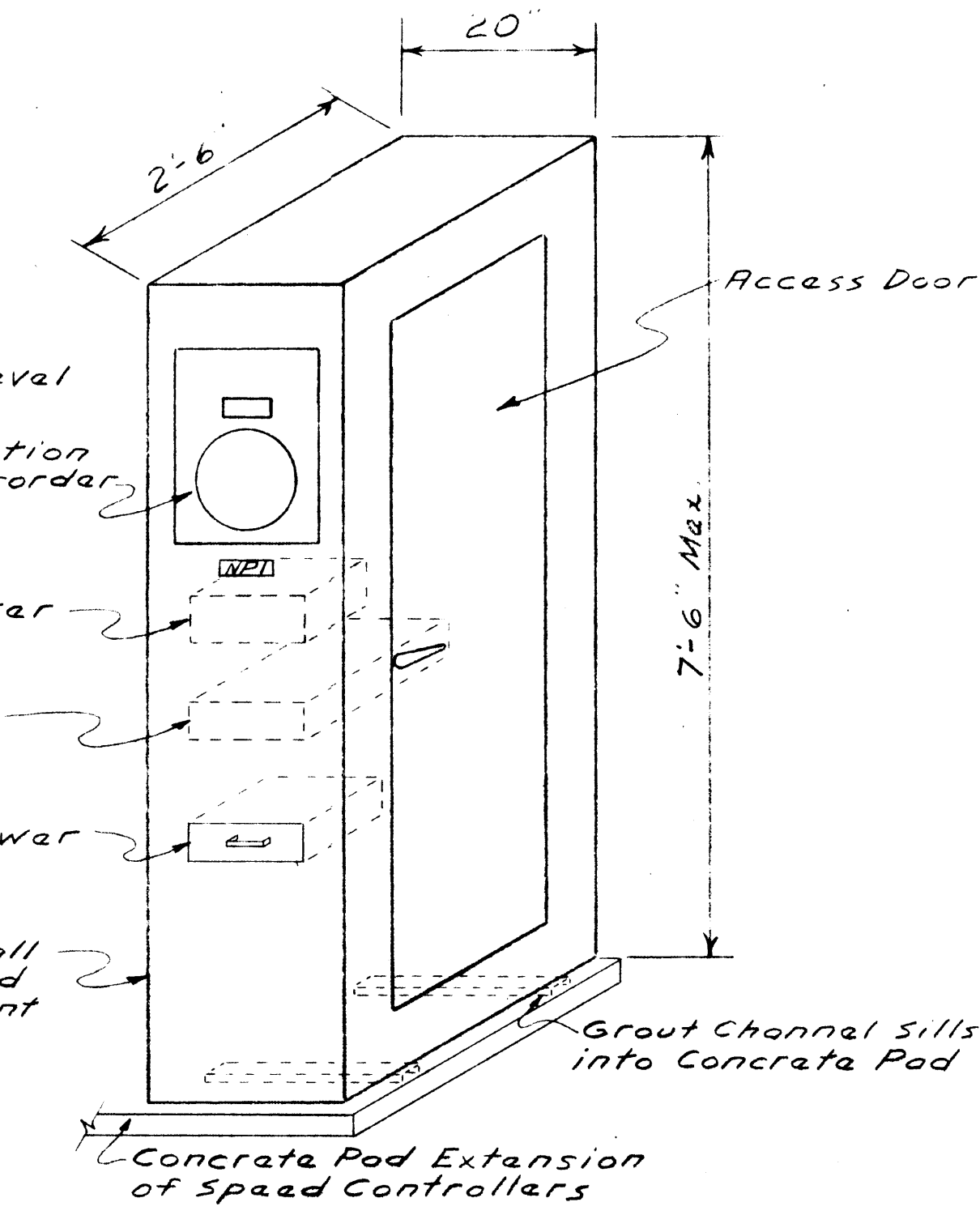
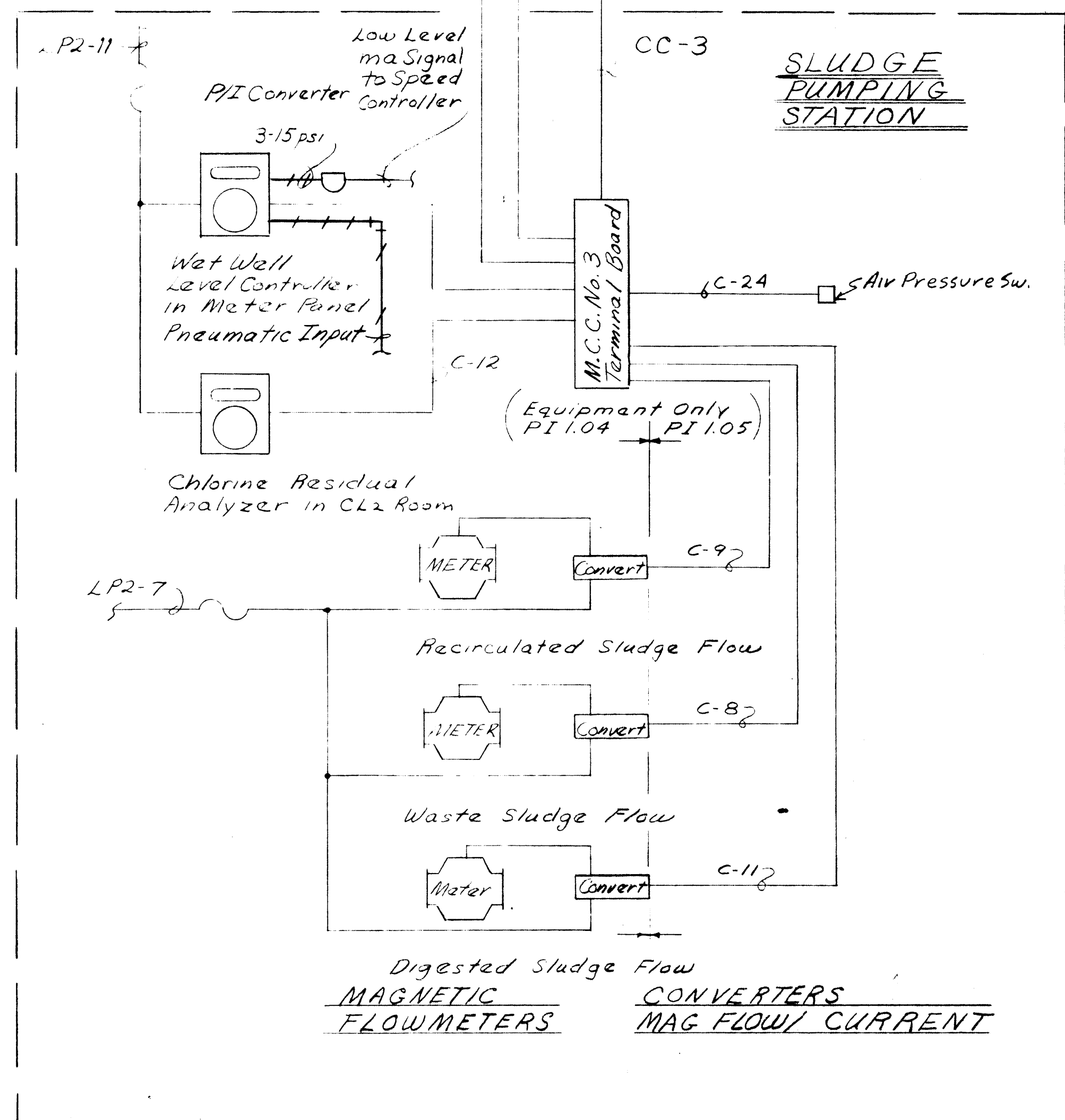
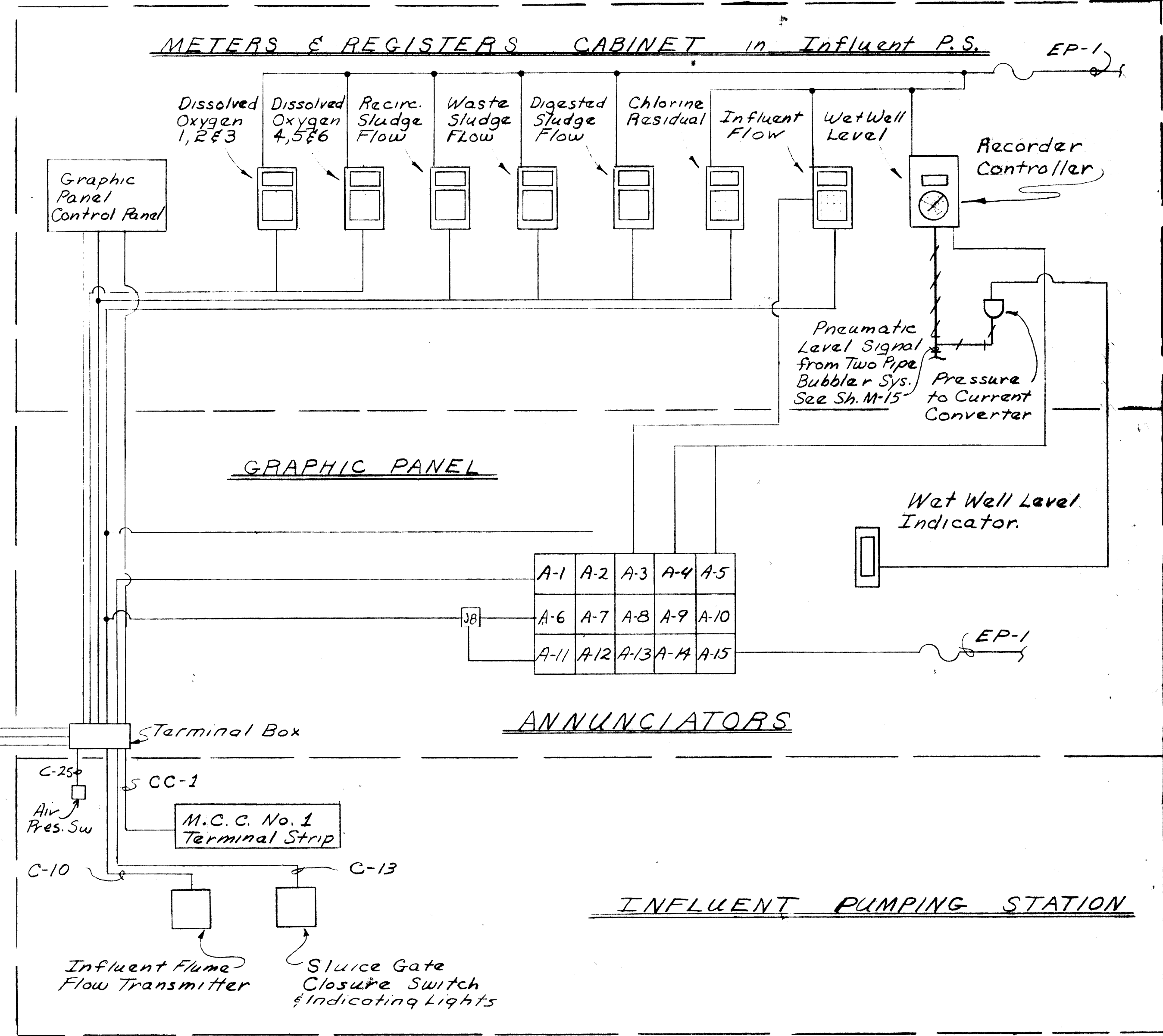
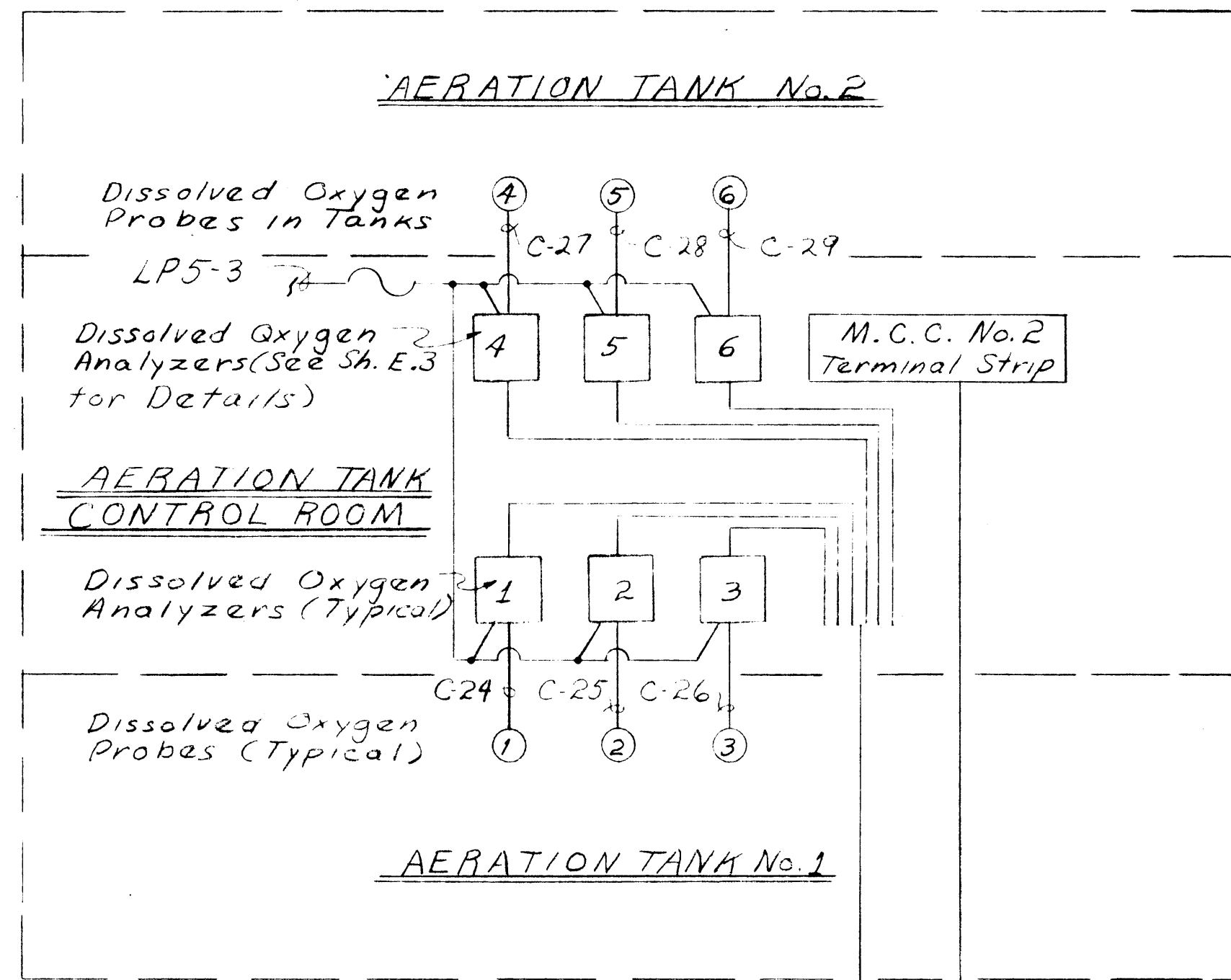
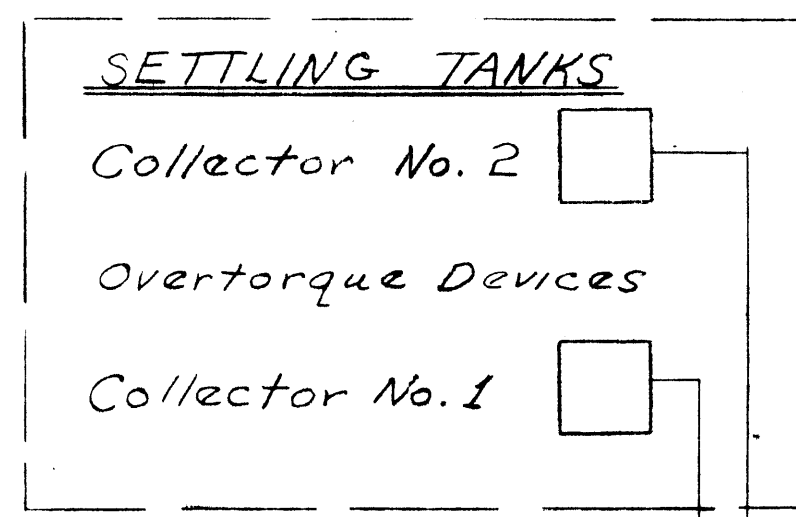
PRINCIPAL ENGINEER: *James M. McNeil*  
N.Y.S.P.E. LIC. NO. 39764

REVISIONS

11-16

IN CHARGE OF: J.D.M.  
DESIGNED BY: R.G.F.W.R.A.  
MADE BY: W.H.S.  
CHECKED BY: D.L.P.





**METER PANEL  
SLUDGE PUMPING STATION  
No Scale**

- ANNUNCIATOR SCHEDULE:**
- A-1 Sluice Gate Closed
  - A-2 High Water Level Influent Flume
  - A-3 High Wet Well Influent Pumping Station
  - A-4 Low Wet Well " "
  - A-5 Overload Settling Tank No. 1
  - A-6 Overload Settling Tank No. 2
  - A-7 High Wet Well Sludge Pumping Station
  - A-8 Low Wet Well Sludge Pumping Station
  - A-9 Low Residual Chlorine Effluent
  - A-10 Loss of Weight Chlorine
  - A-11 Loss of Air Sludge Pumping Station
  - A-12 Loss of Air Influent Pumping Station
  - A-13 Test Pushbutton
  - A-14 Flasher
  - A-15 Future Spare

**DISSOLVED OXYGEN RECORDER PEN COLORS**  
From Analyzer No. 1 Red, No. 2 Green, No. 3 Purple  
No. 4 Blue, No. 5 Brown, No. 6 Black.

**AS BUILT**

331  
JMB 2/7/72  
JMB 2/7/72  
JWP 2/2/72

IN CHARGE OF: JDM  
DESIGNED BY: WJP  
MADE BY: JMB  
CHECKED BY: JDM

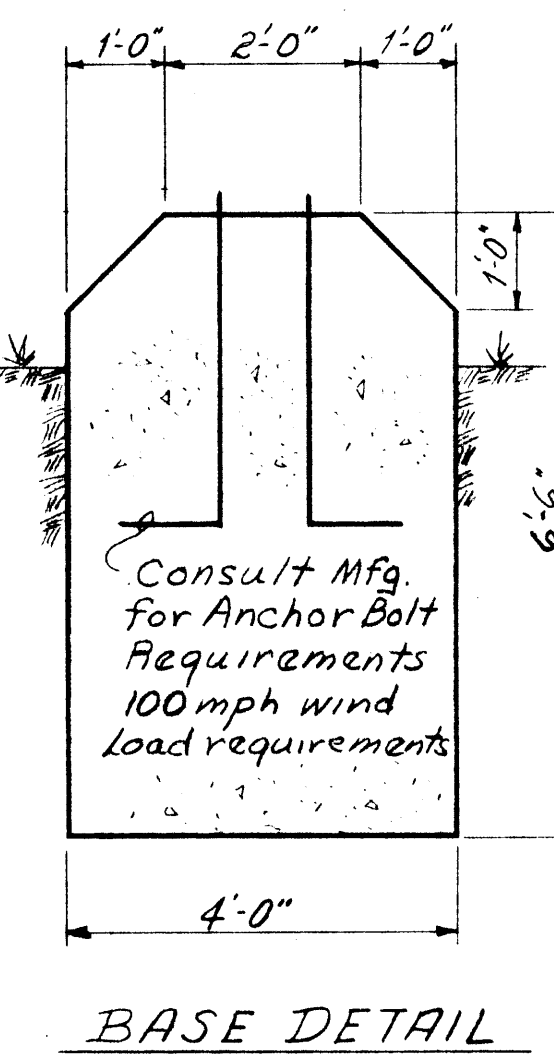
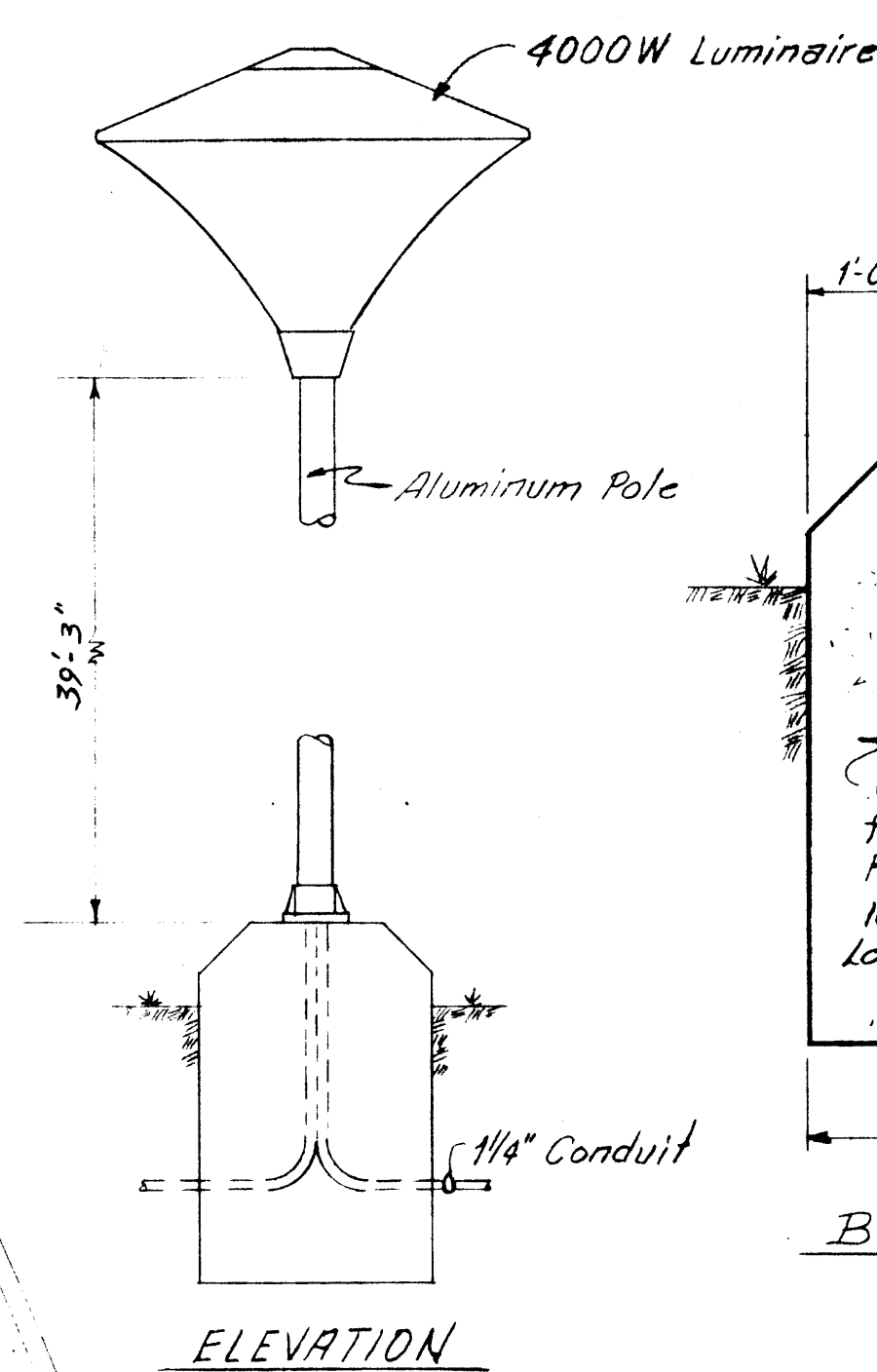
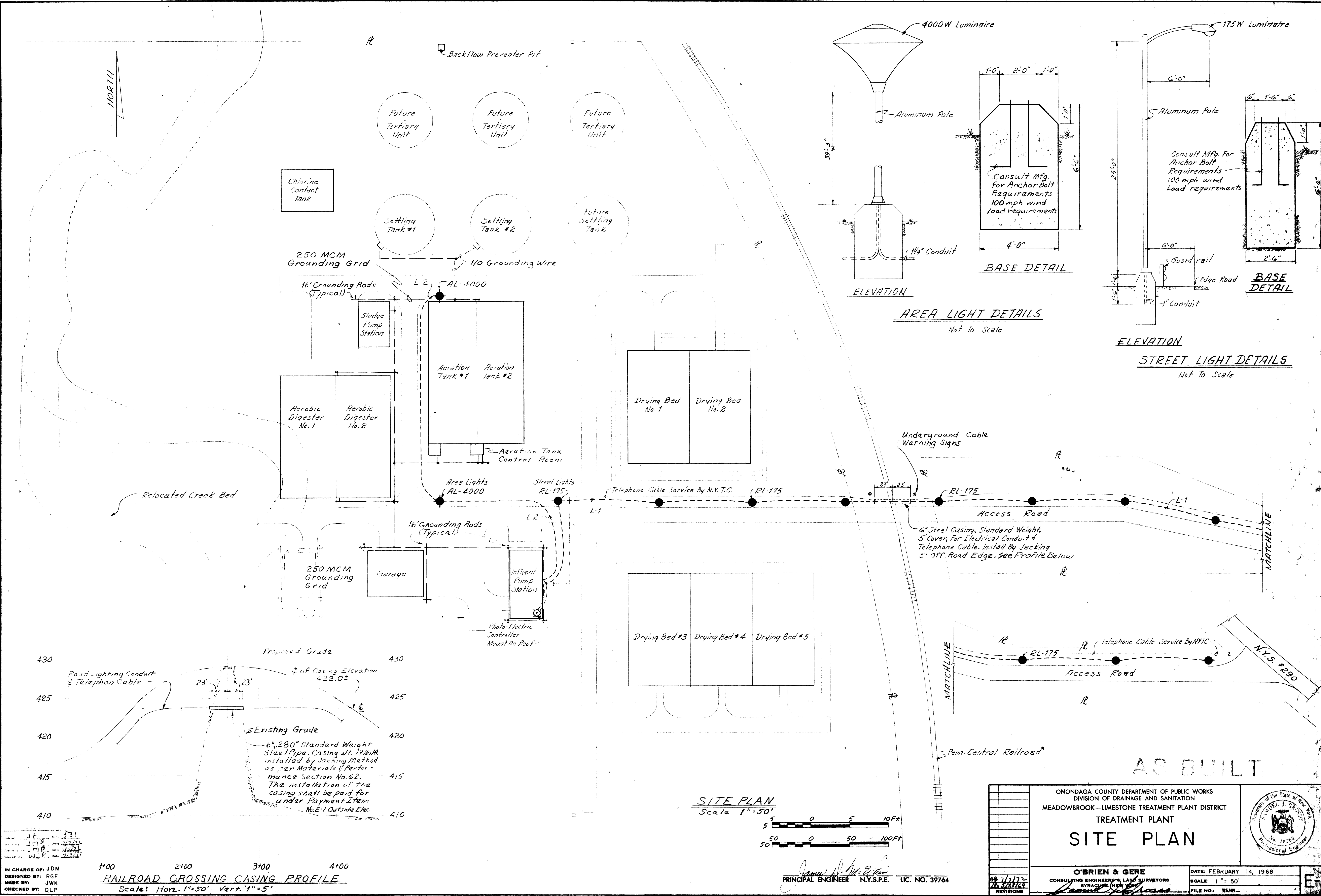
Principal Engineer N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT

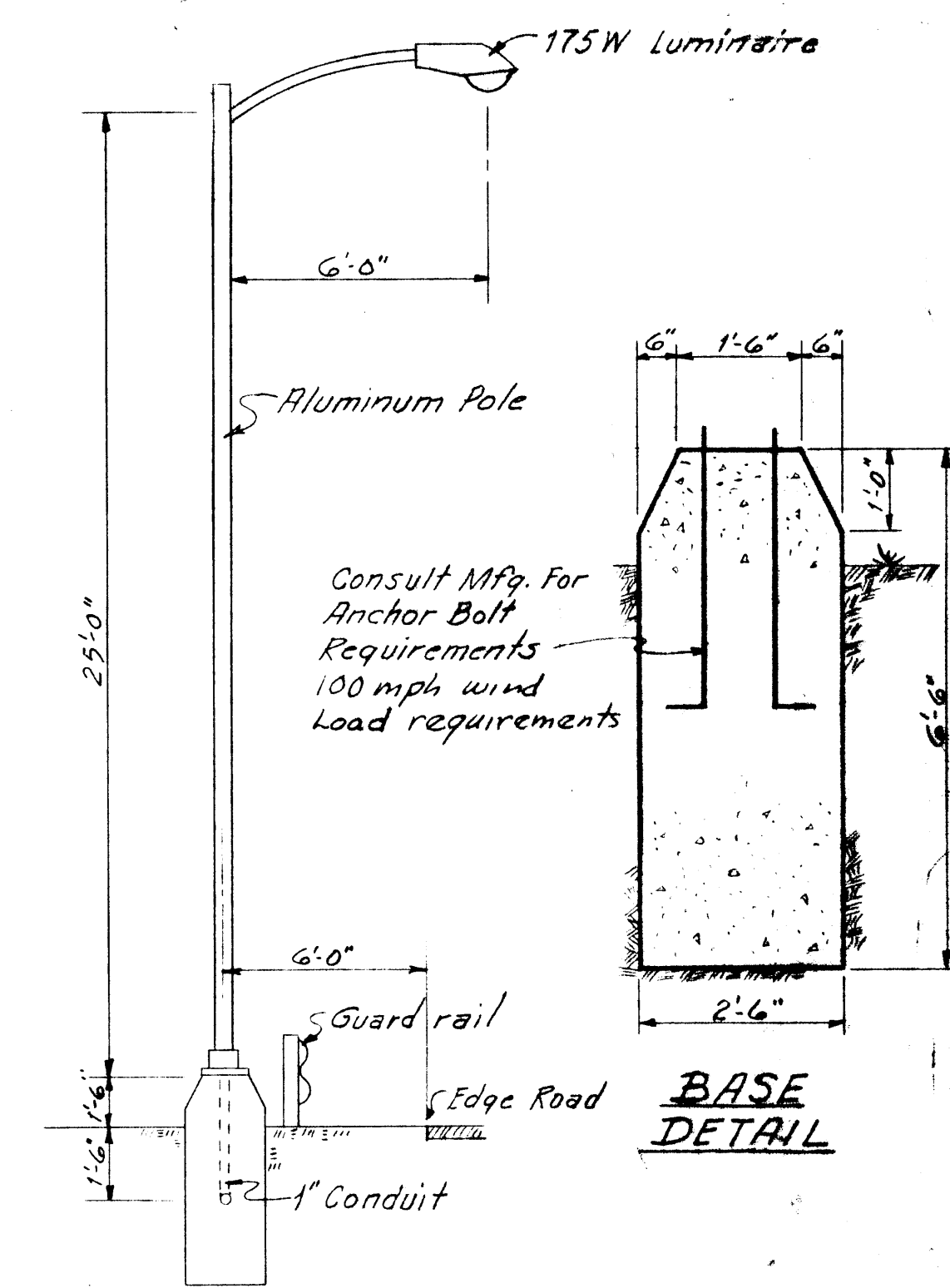
**INSTRUMENTATION**

O'BRIEN & GERE  
CONSULTING ENGINEERS AND SURVEYORS  
SYRACUSE, N.Y.

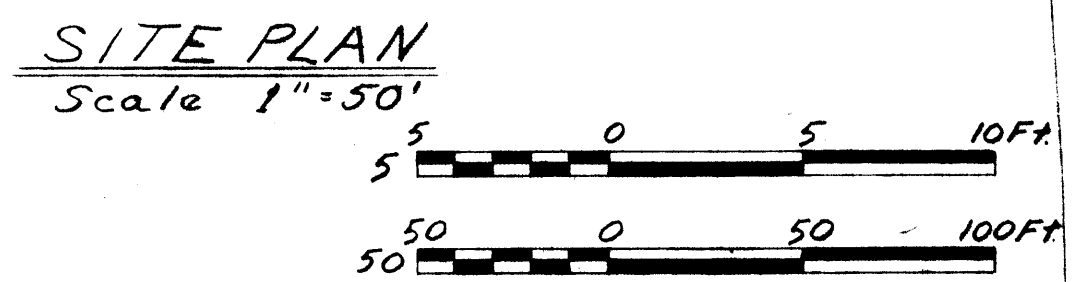
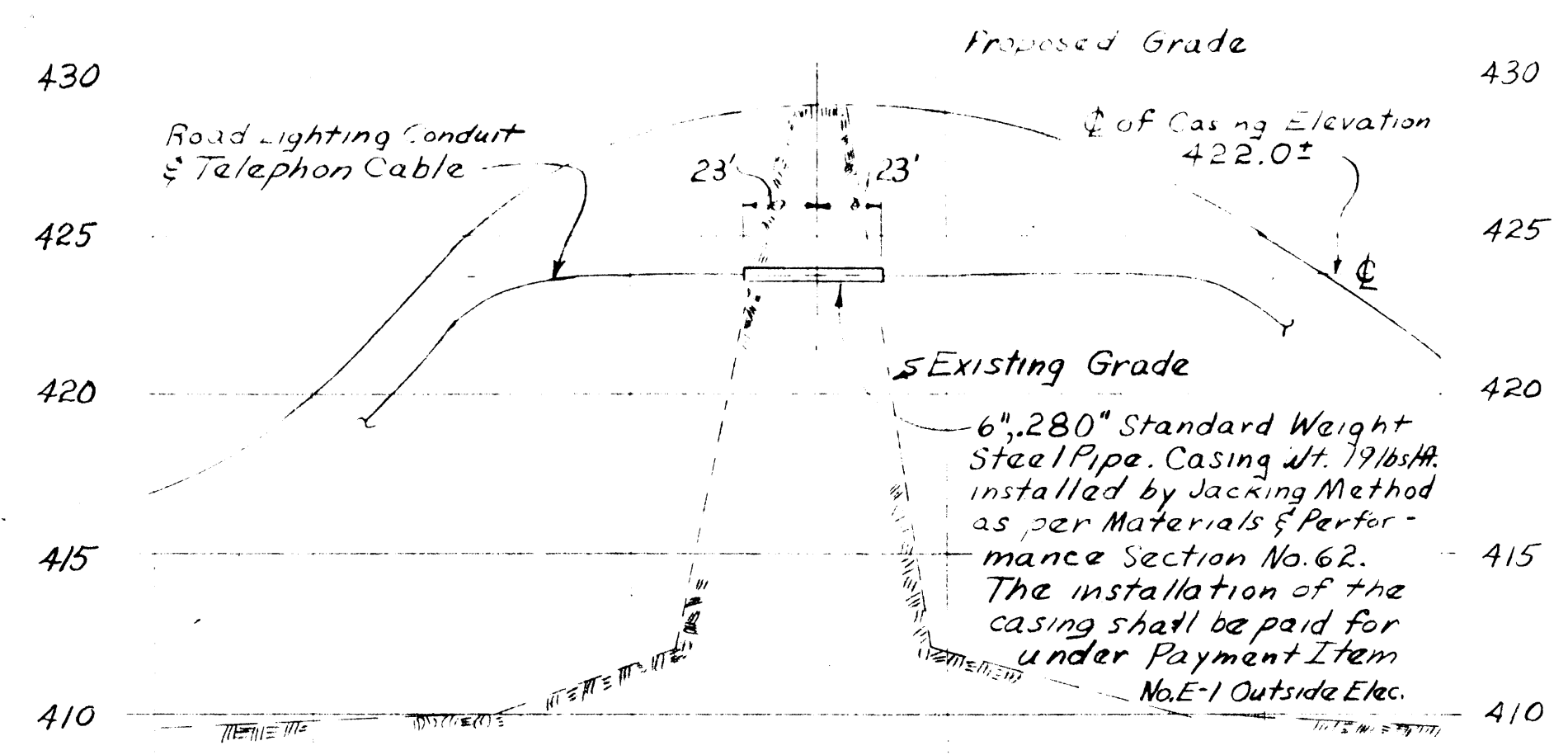
DATE: FEBRUARY 14, 1968  
SCALE: AS SHOWN  
FILE NO.: 1211



AREA LIGHT DETAILS  
Not To Scale



STREET LIGHT DETAILS  
Not To Scale



J.F. 331  
J.M.B. 27723  
M.B. 27273  
W.L.K. 27274

IN CHARGE OF: JDM  
DESIGNED BY: RGF  
MADE BY: JWK  
CHECKED BY: DLP

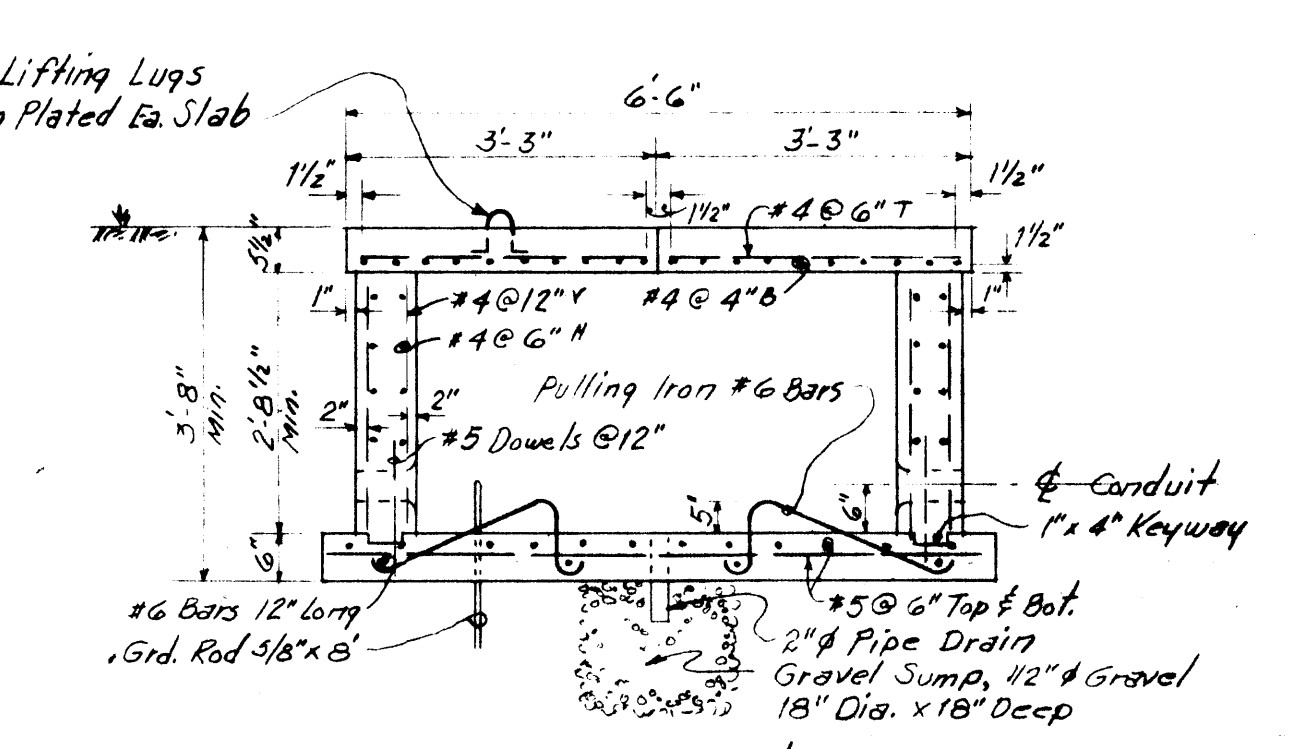
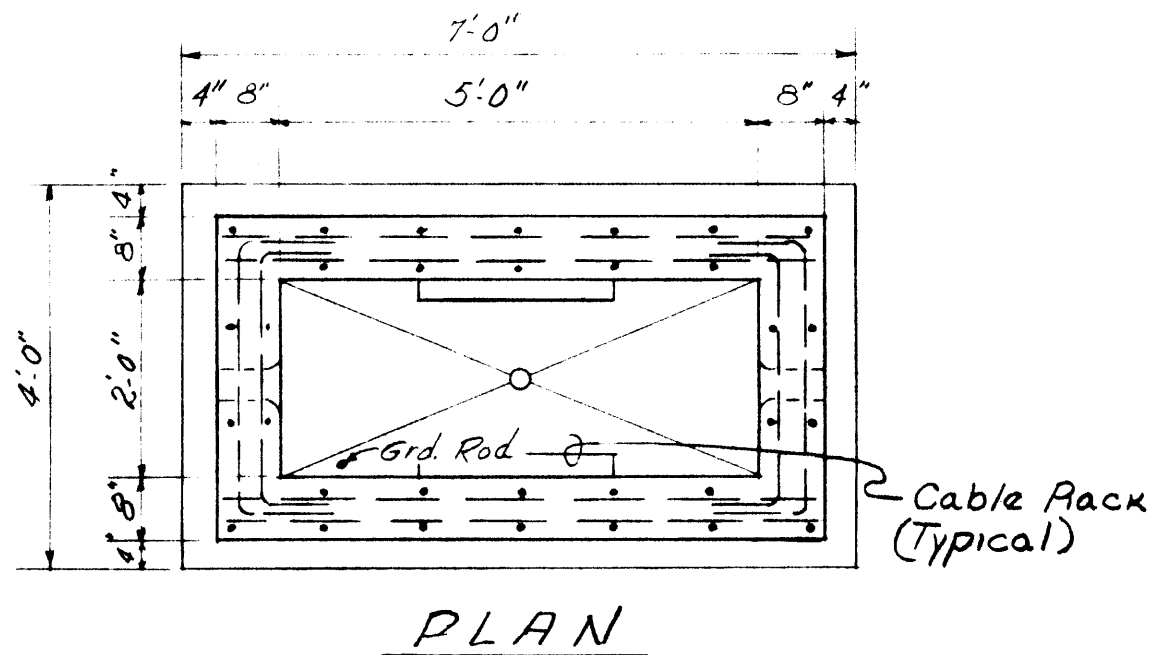
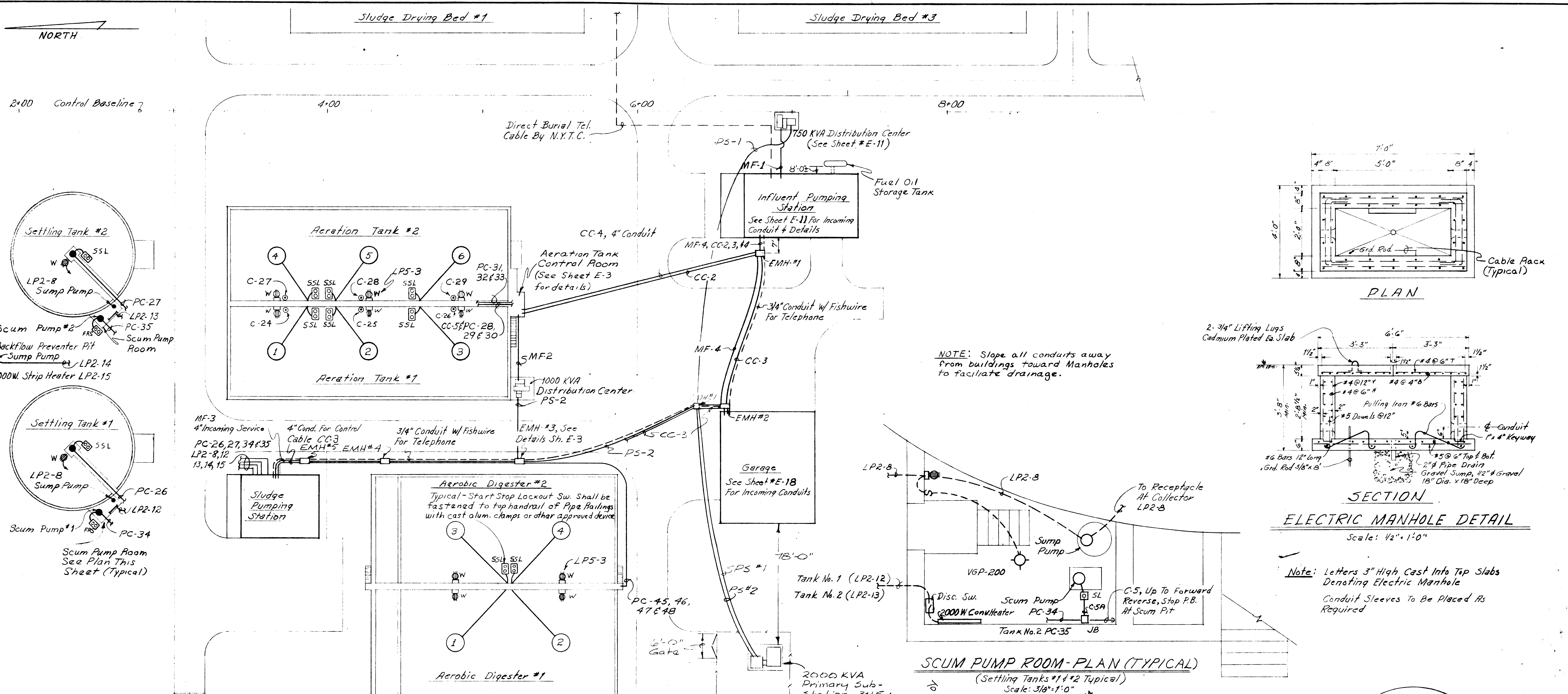
1+00 2+00 3+00 4+00

RAILROAD CROSSING CASING PROFILE  
Scale: Horiz. 1"=50' Vert. 1"=5'

James S. McQuinn  
PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

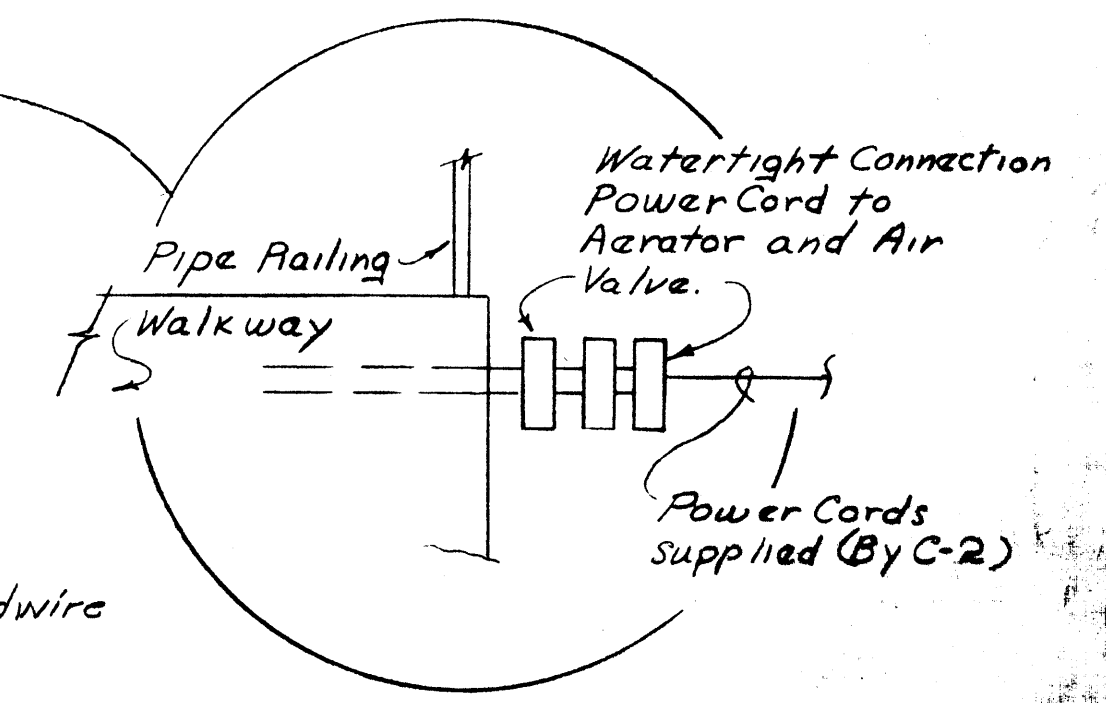
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT		
TREATMENT PLANT <b>SITE PLAN</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: 1"=50' FILE NO.: 15M-1	E
REVISIONS 28/1/72 1N/3/72		



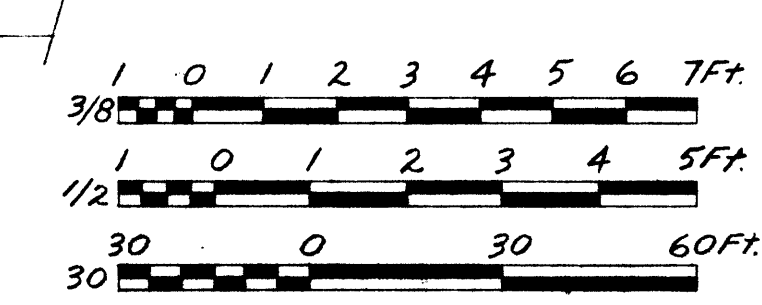
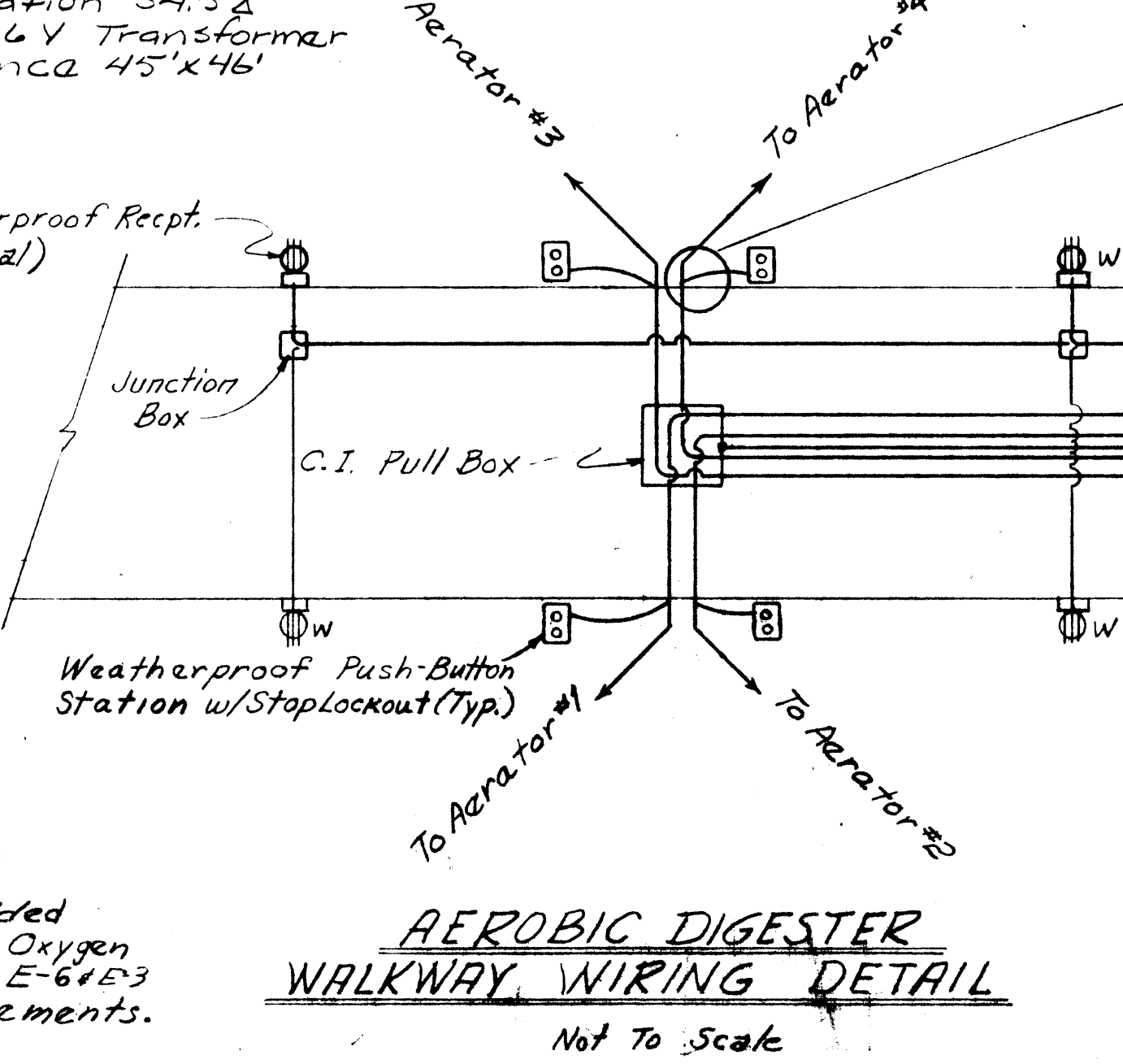
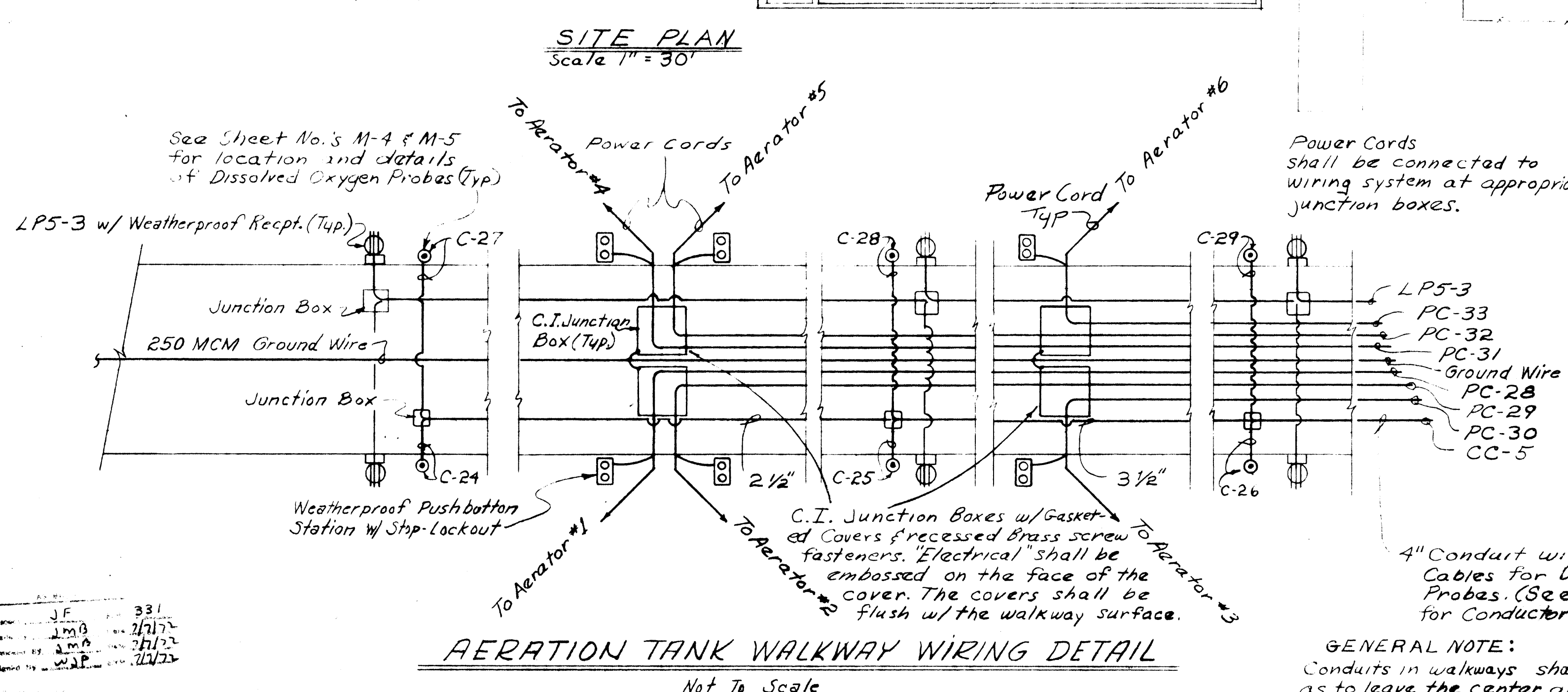


**ELECTRIC MANHOLE DETAIL**  
Scale: 1/2" = 1'-0"

**SCUM PUMP ROOM-PLAN (TYPICAL)**  
(Settling Tanks #1 & #2 Typical)  
Scale: 3/8" = 1'-0"



**AS BUILT**



ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT

**OUTSIDE WIRING**

O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
SYRACUSE, N.Y.

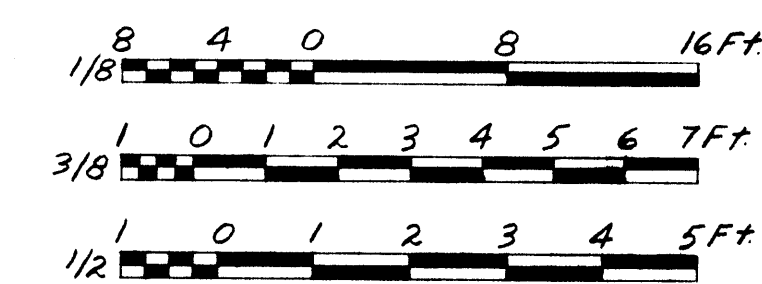
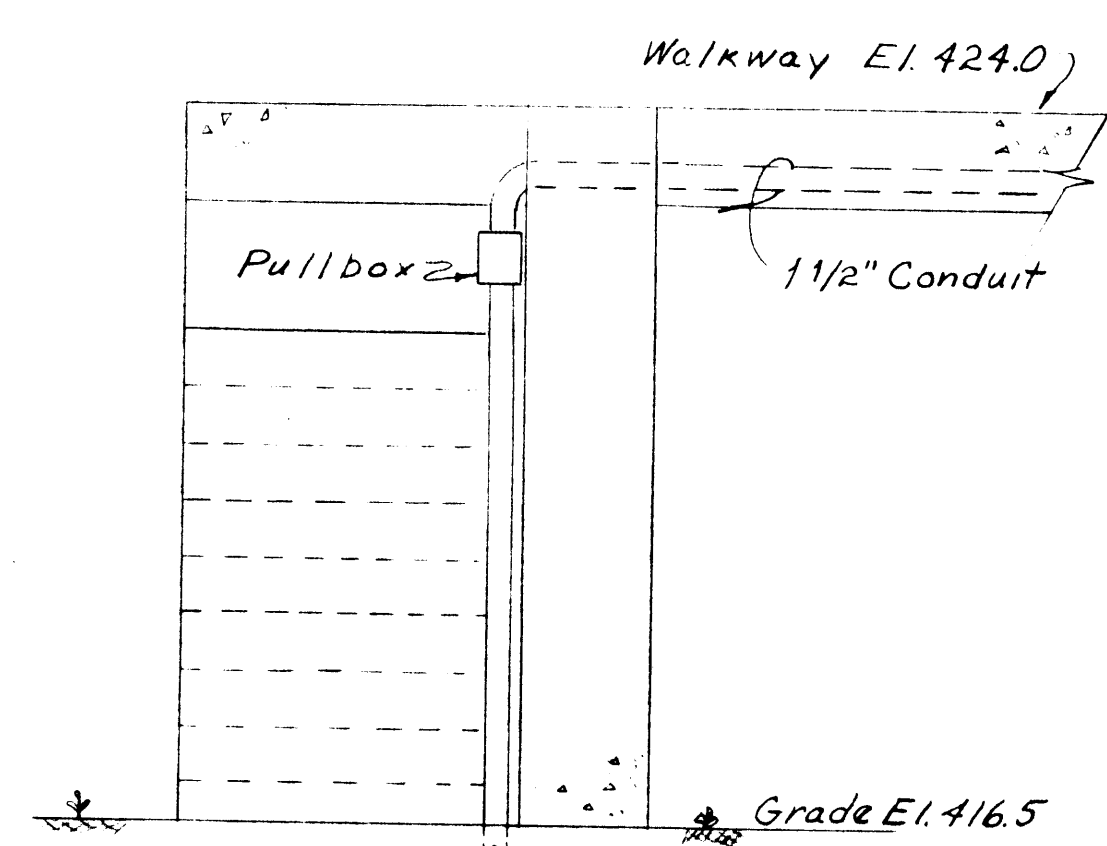
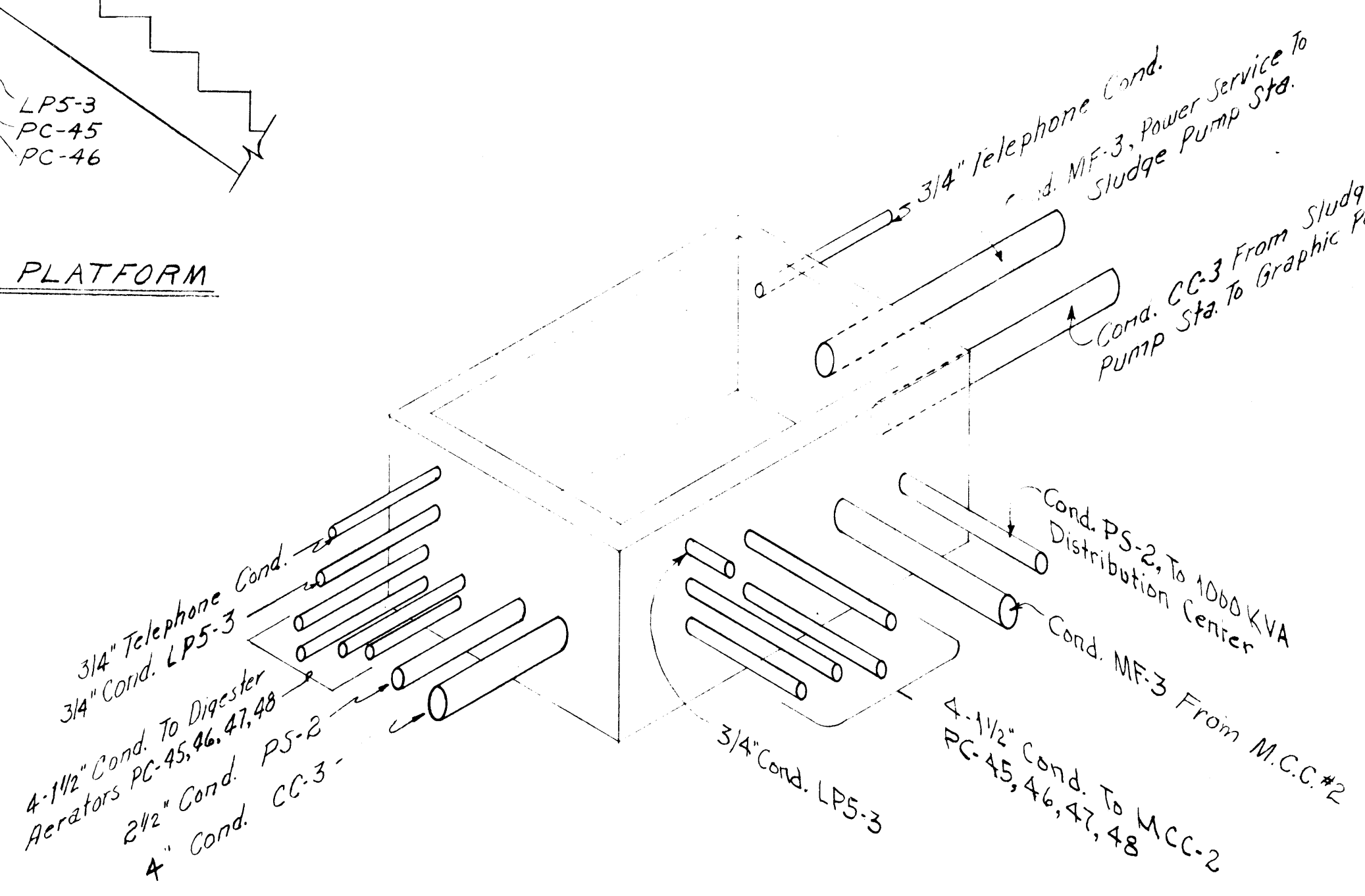
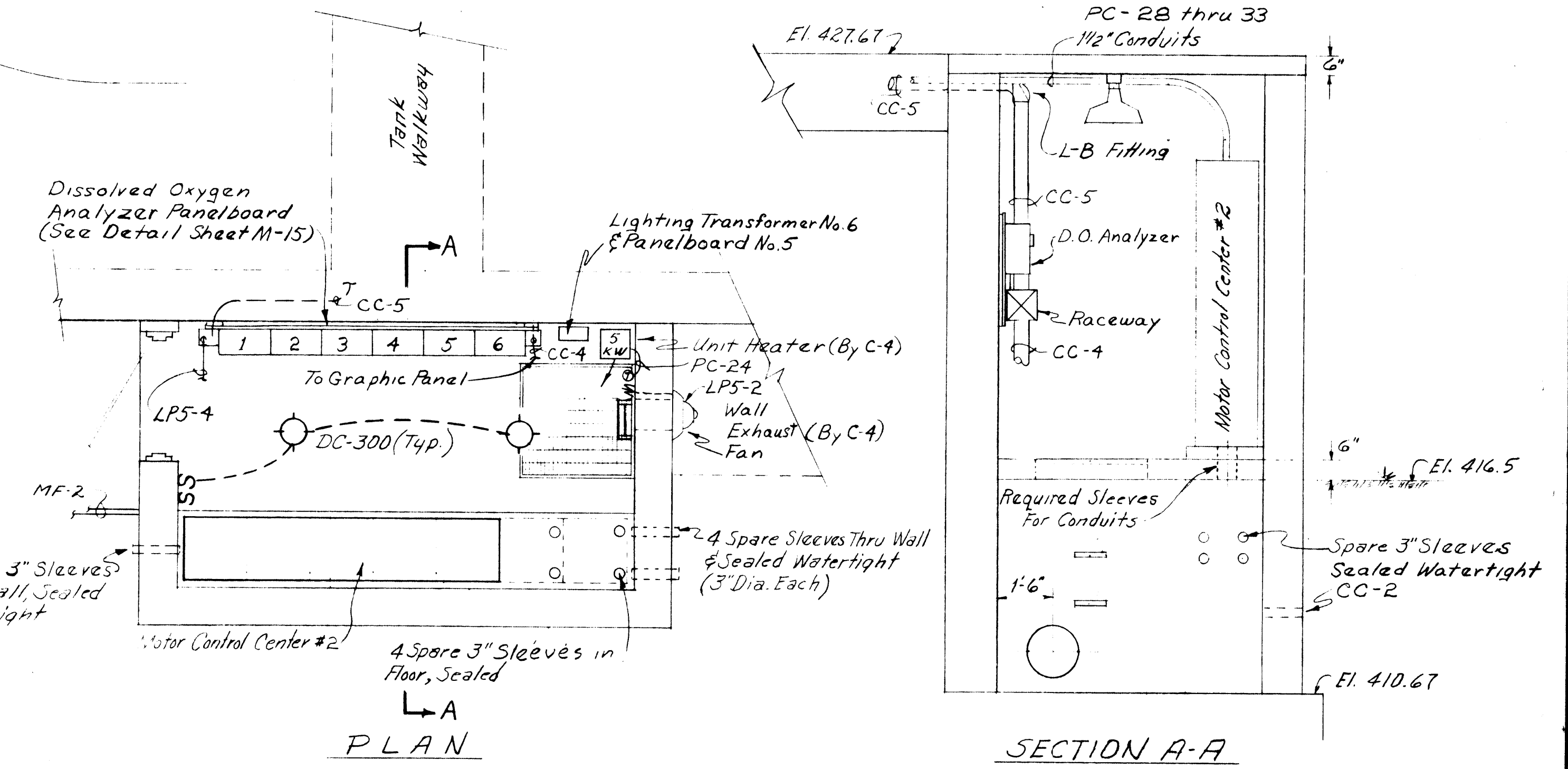
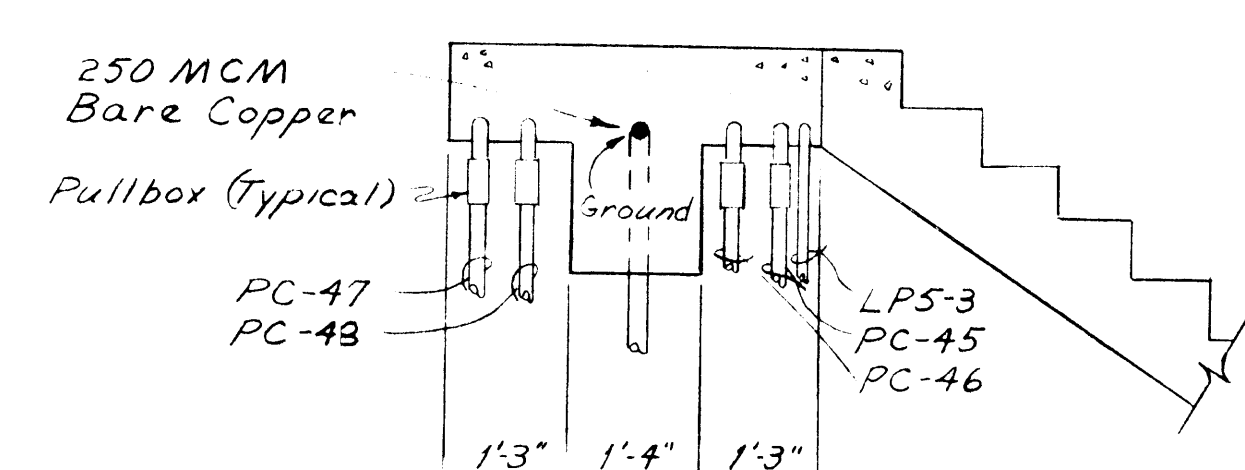
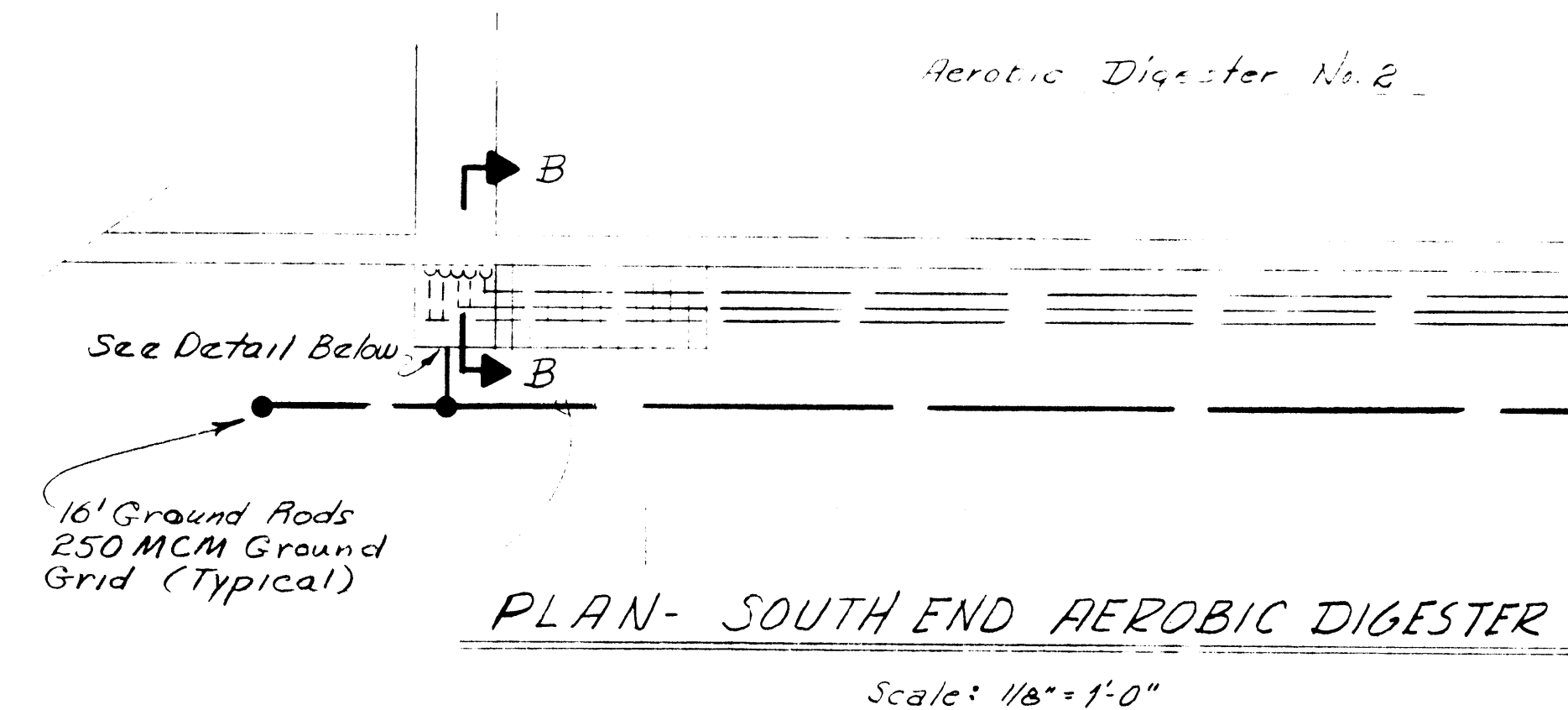
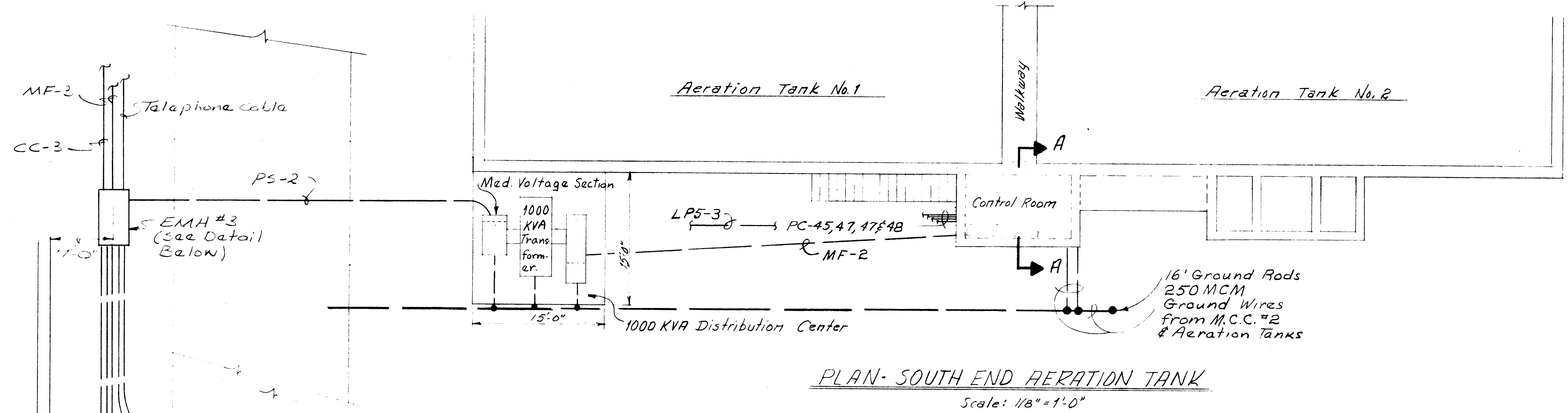
DATE: FEBRUARY 14, 1968  
SCALE: AS SHOWN  
FILE NO.: 115-149

Professional Engineer

Principal Engineer N.Y.S.P.E. LIC. NO. 39764

IN CHARGE OF: JDM  
DESIGNED BY: RGF  
MADE BY: JWK  
CHECKED BY: DLP

LIGHTING PANEL No. 5 IN CONTROL ROOM						
Circuit No.	Location	Number & Type Fixture	Receptacles	Other Outlets	Total Watts	Remarks
LP5-1	Aeration Tank Control Room	2-DC-300	2		900	Mt. EL. 425.75
LP5-2	Aeration Tank Control Room			Wall Exh. Fan	140	Motor Start Sw. Required
LP5-3	Aeration Tanks Aerobic Digesters		10		1500	
LP5-4	Control Room	6-D.O. Analyzer		6-D.O. Probes	800	Power Supp.
S to B		Spares			2590	



IN CHARGE OF: JDM  
 DESIGNED BY: RGF  
 MADE BY: JWK  
 CHECKED BY: DLP

Principal Engineer  
 N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF DRAINAGE AND SANITATION  
 MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT  
 TREATMENT PLANT  
**AERATION TANK CONTROL ROOM**

O'BRIEN & GERE  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 SYRACUSE, N.Y.

DATE: FEBRUARY 14, 1968  
 SCALE: AS SHOWN  
 FILE NO.: 115.149

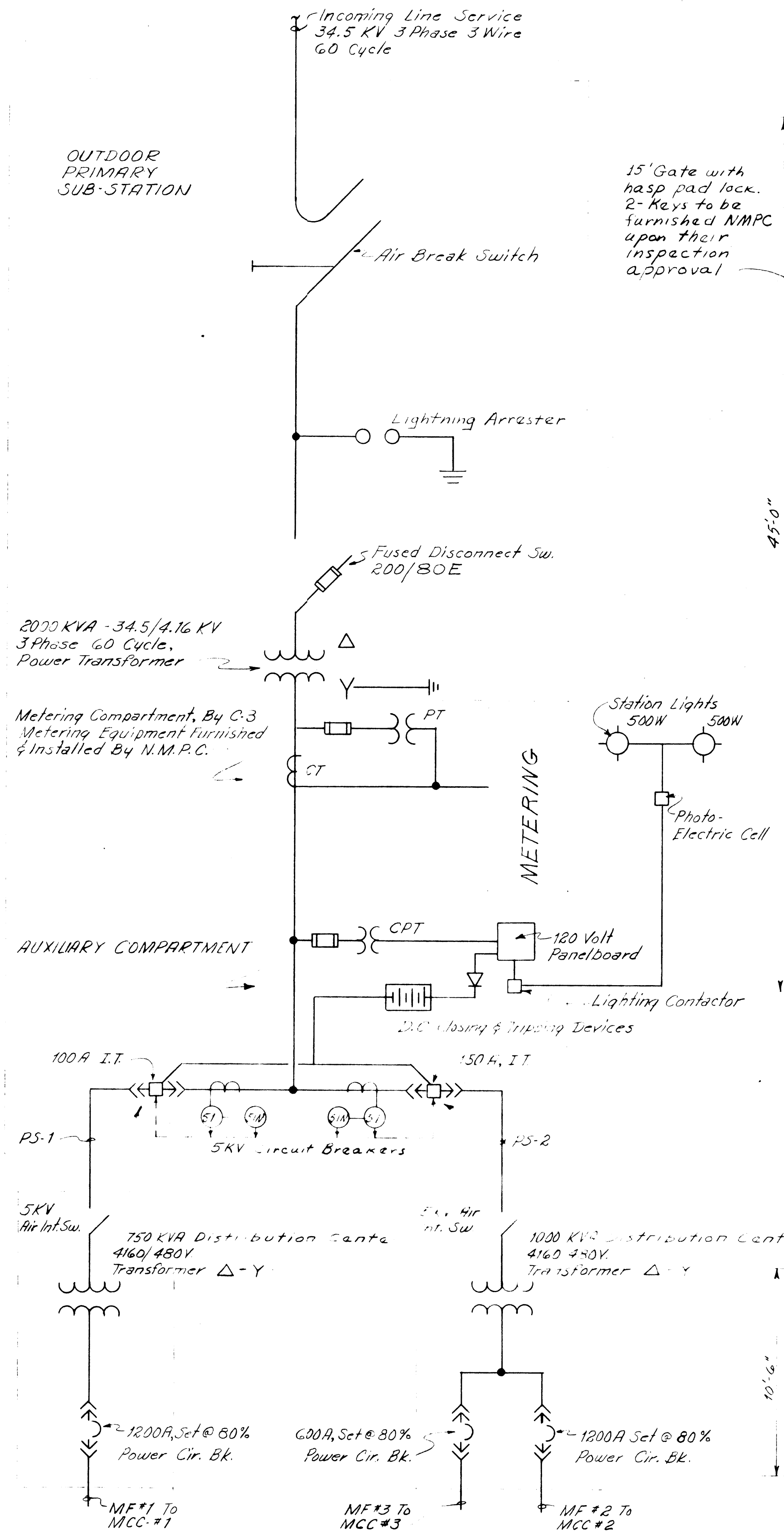
REVISIONS

AS BUILT

E-3



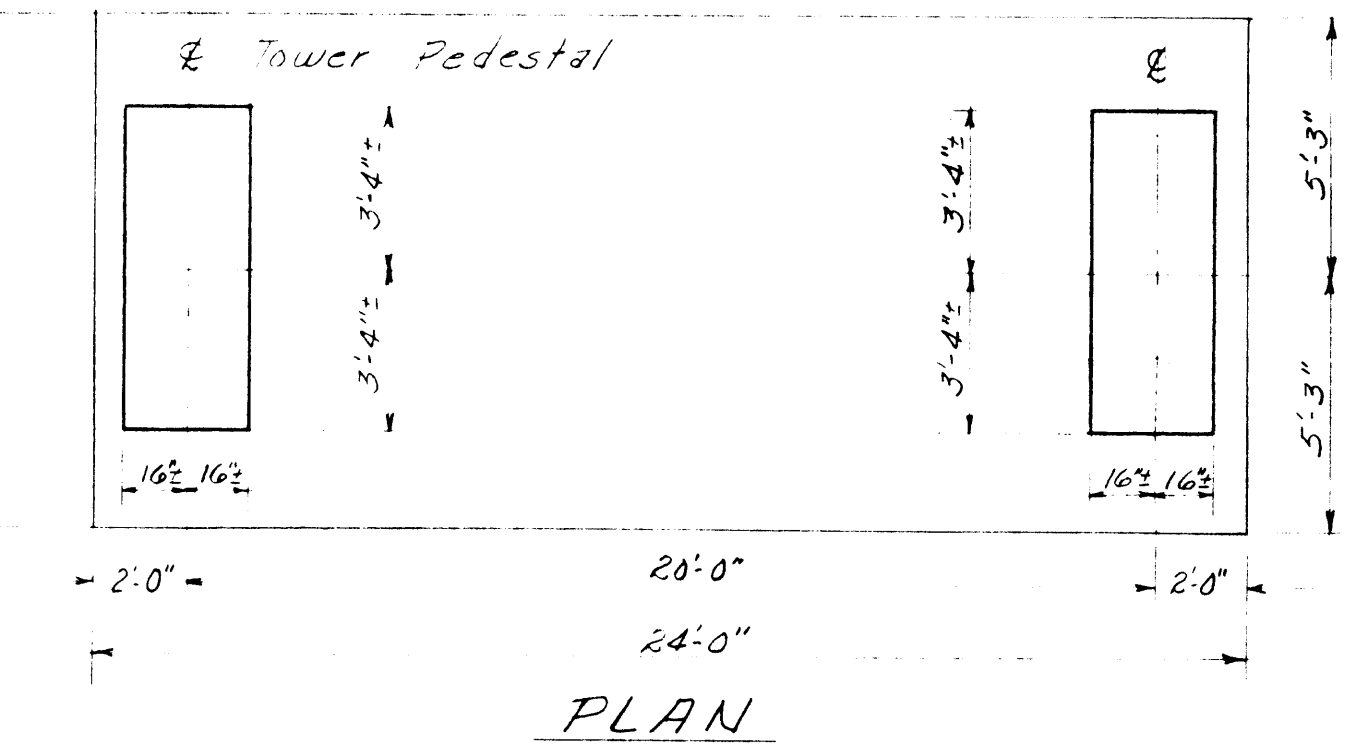
OUTDOOR PRIMARY SUB-STATION



DISTRIBUTION ONE LINE DIAGRAM

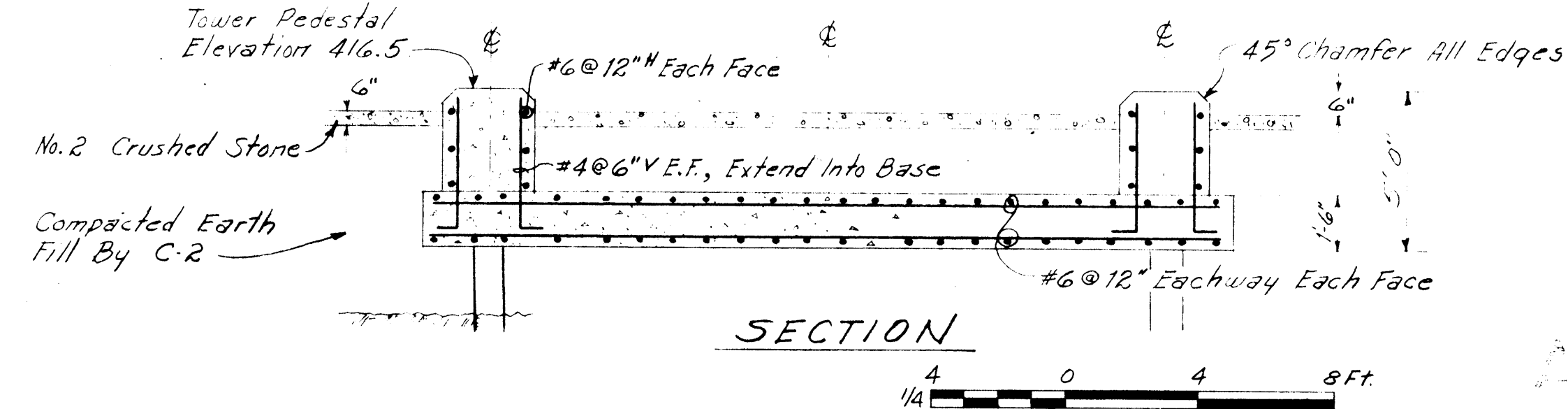
IN CHARGE OF: JDM  
DESIGNED BY: RGF, WRA  
MADE BY: JWK  
CHECKED BY: DLP

JF 331  
Jm B 11/22  
Jm B 7/72  
JJP 7/72



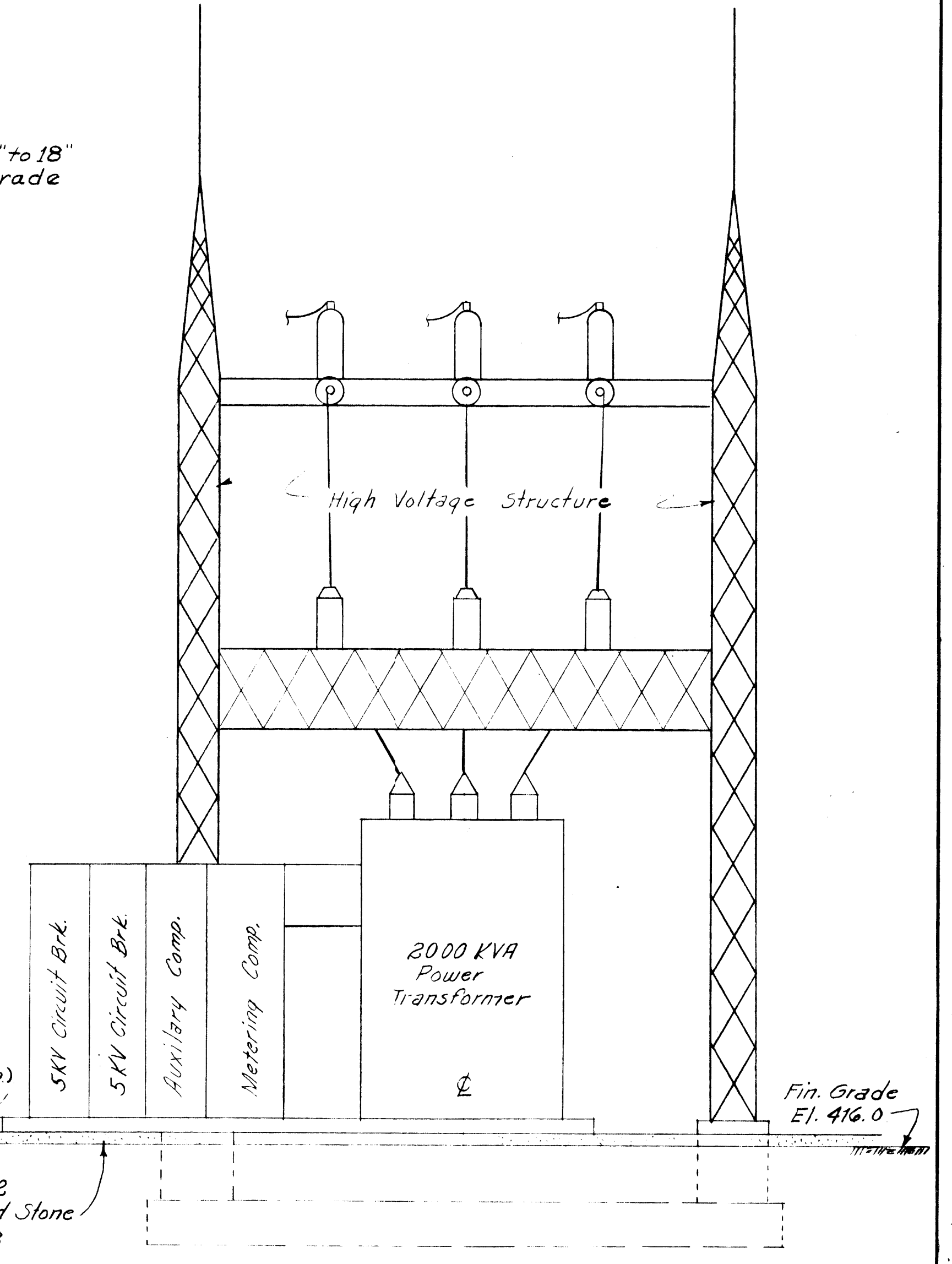
BASE DETAILS HIGH VOLTAGE STRUCTURE

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

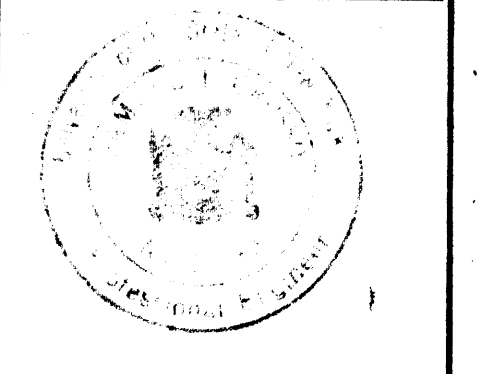


SUB-STATION SOUTH ELEVATION

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



ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT  
PRIMARY SUB-STATION  
DETAILS



James A. McWain  
PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
SYRACUSE, NEW YORK

DATE: FEBRUARY 14, 1968  
SCALE: 1/4" = 1'-0"  
FILE NO.: 115.149

AB 7/72  
A 7/28/67  
REVISIONS

E4

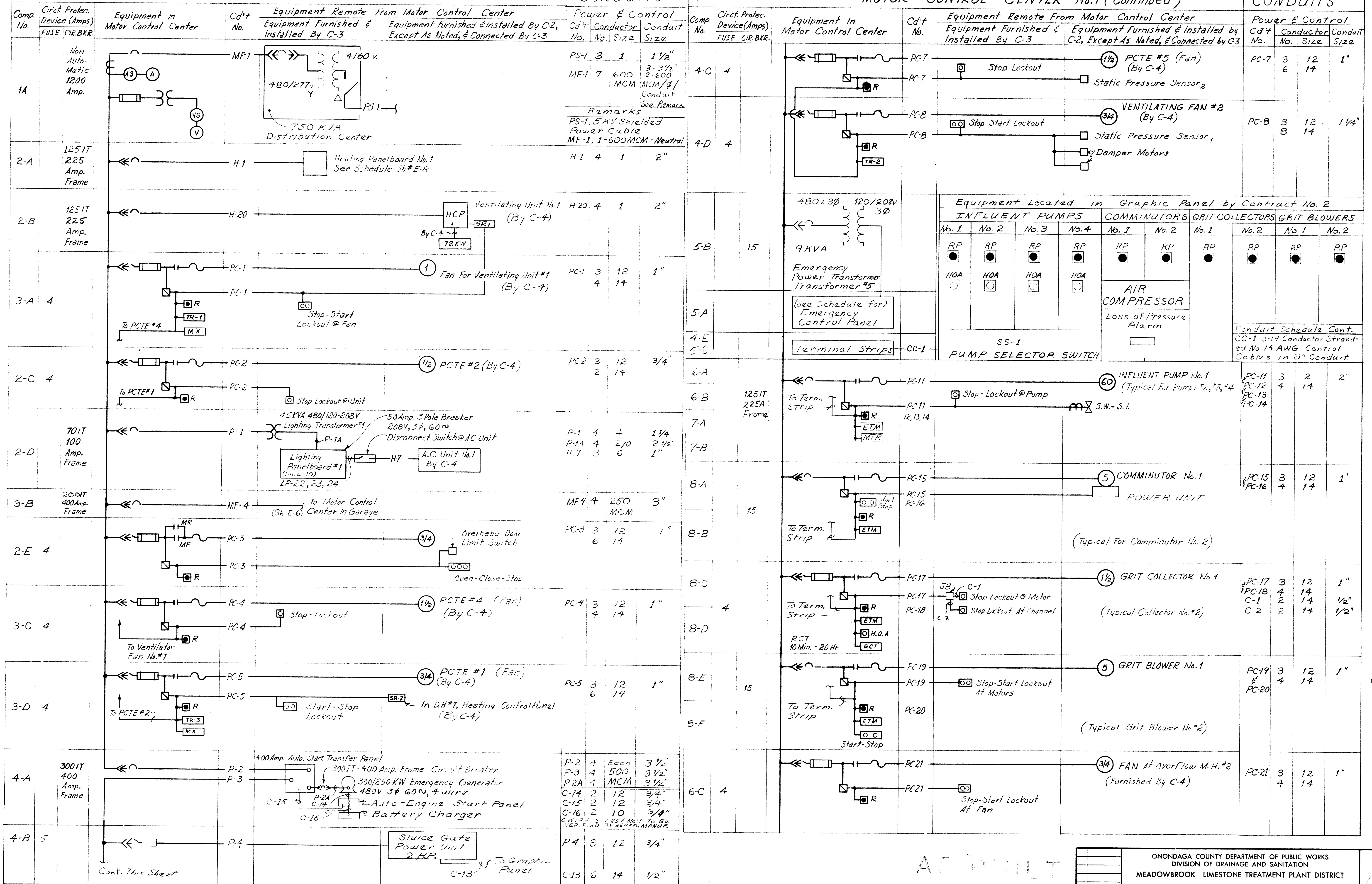
INFLUENT PUMPING STATION

MOTOR CONTROL CENTER No.1

CONDUITS

MOTOR CONTROL CENTER No.1 (Continued)

CONDUITS



AS BUILT

NOTES:  
RP - Red Light in Graphic Panel

IN CHARGE OF: JDM  
DESIGNED BY: RGF, WRA  
MADE BY: JWK  
CHECKED BY: DLP

3/1  
2/12  
4/1  
7/12

Remarks  
PC-6 These Conduits Eliminated.  
EP-5  
EP-3

PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT

# ONE LINE DIAGRAM

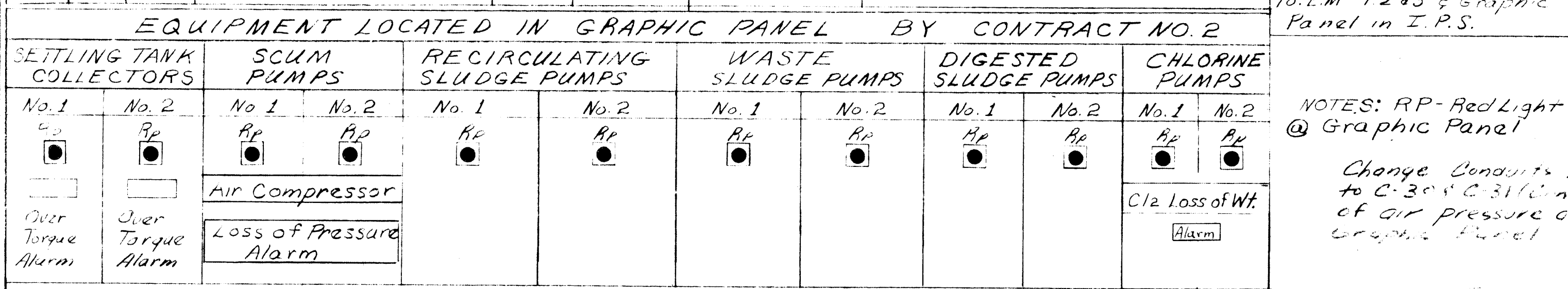
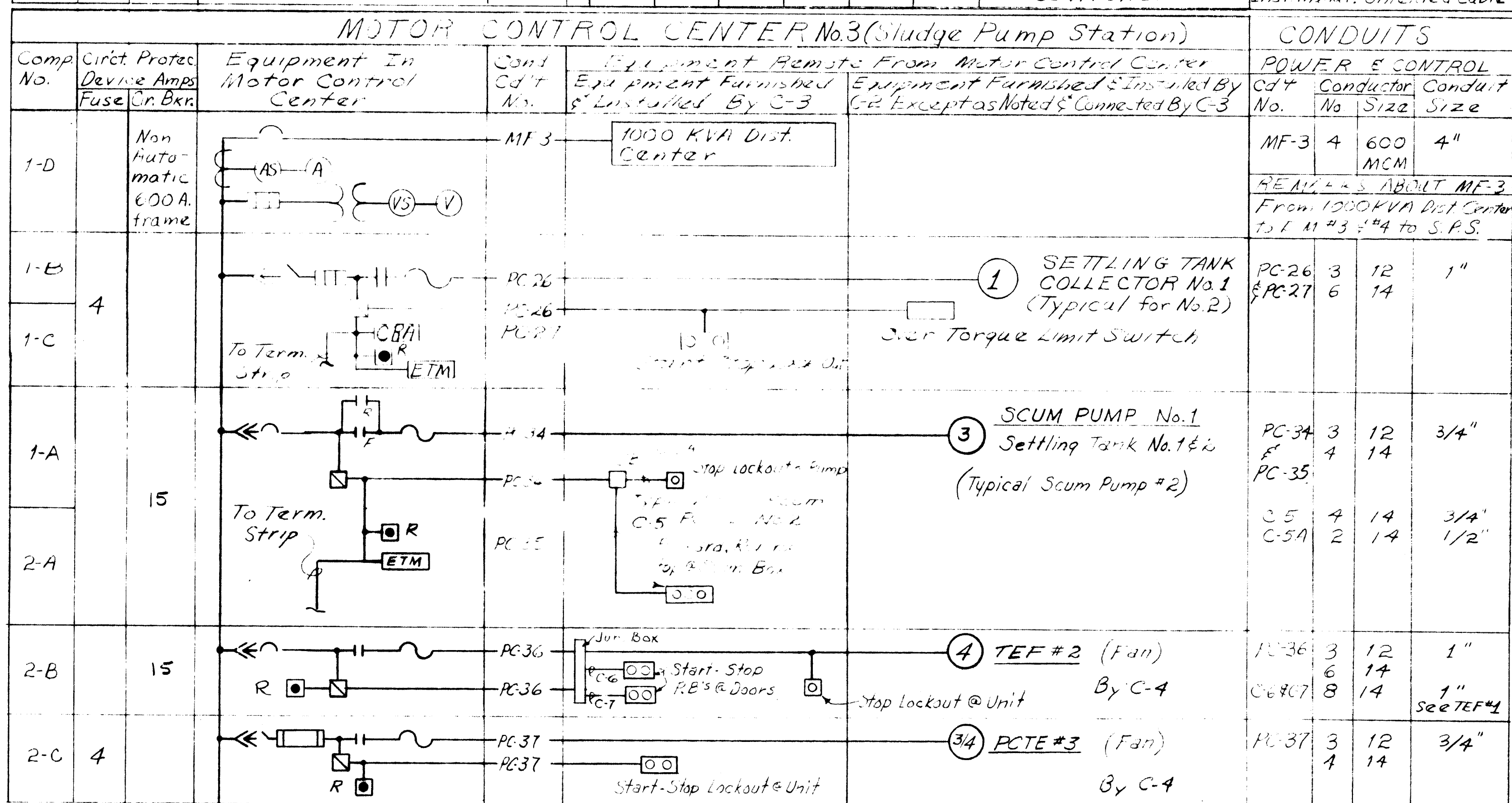
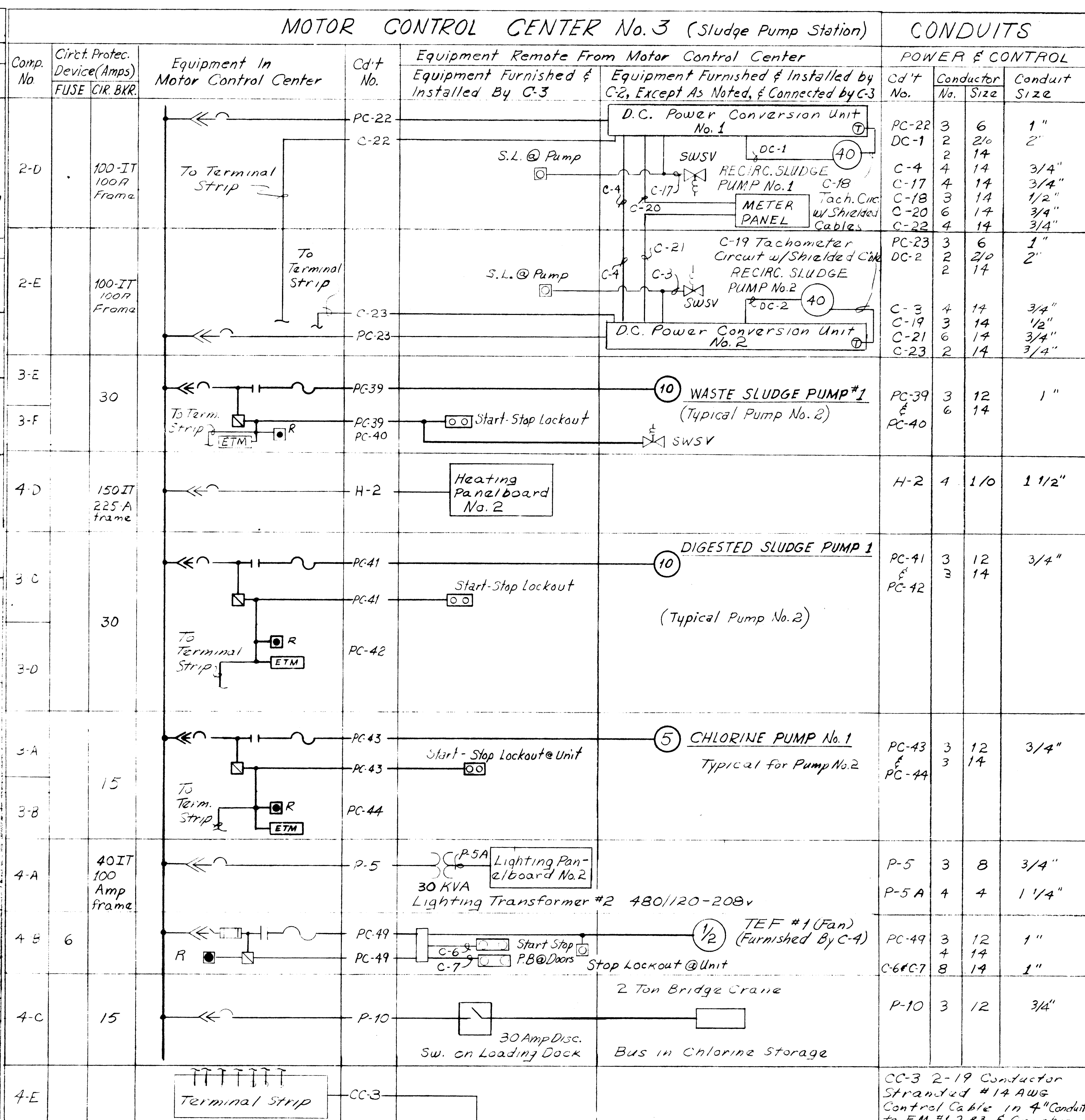
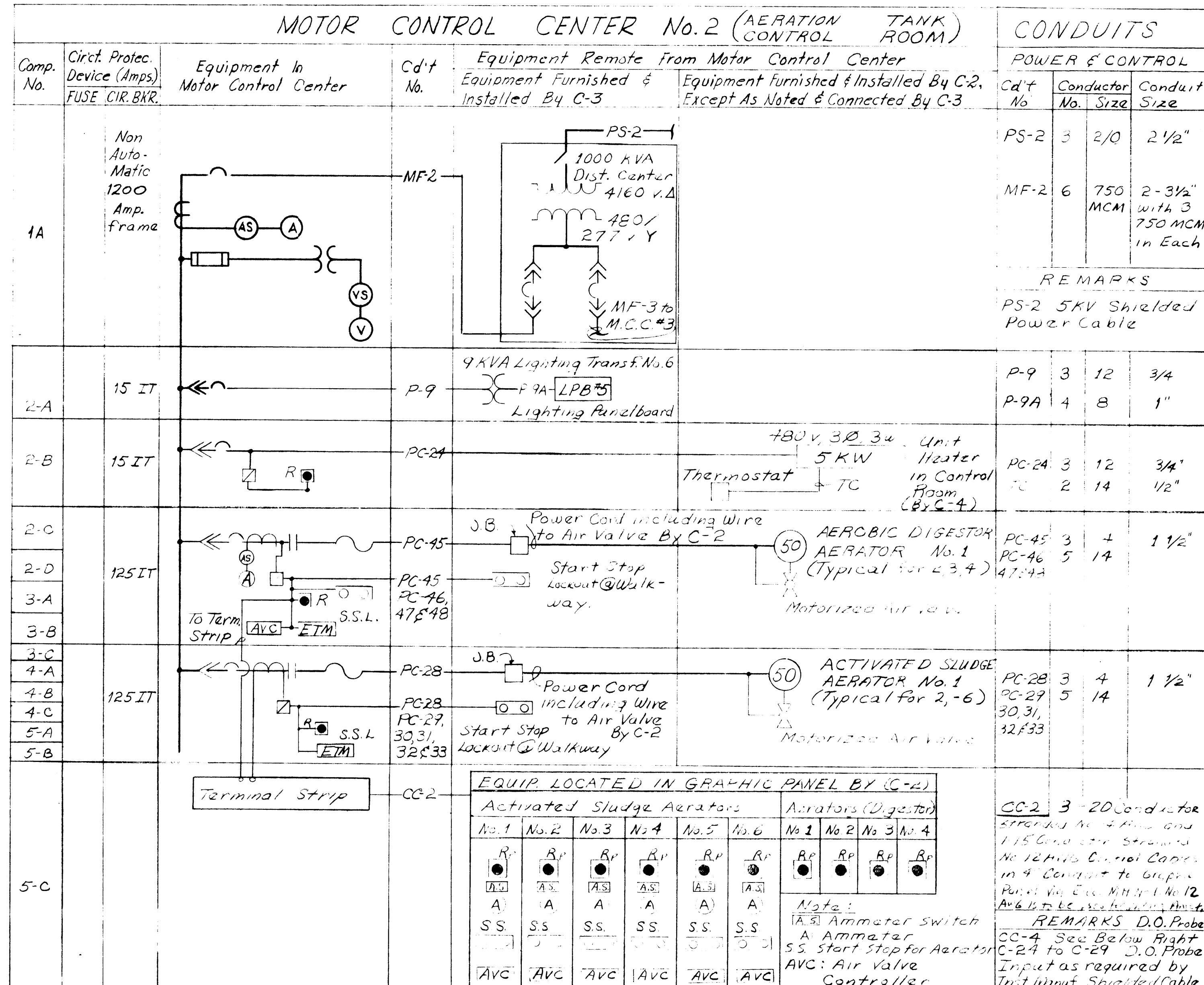
O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
SYRACUSE, NEW YORK

DATE: FEBRUARY 14, 1968  
SCALE: NO SCALE  
FILE NO.: 15.M-05F

APR 7 1972  
REVISED

E-5

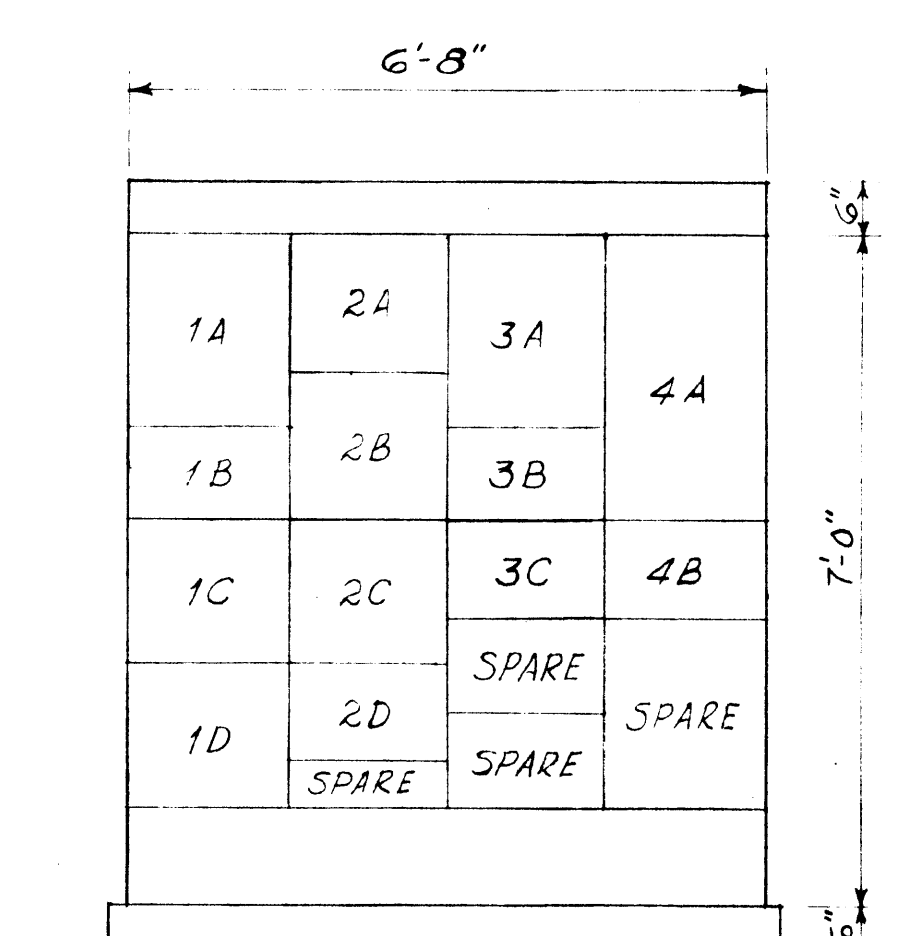
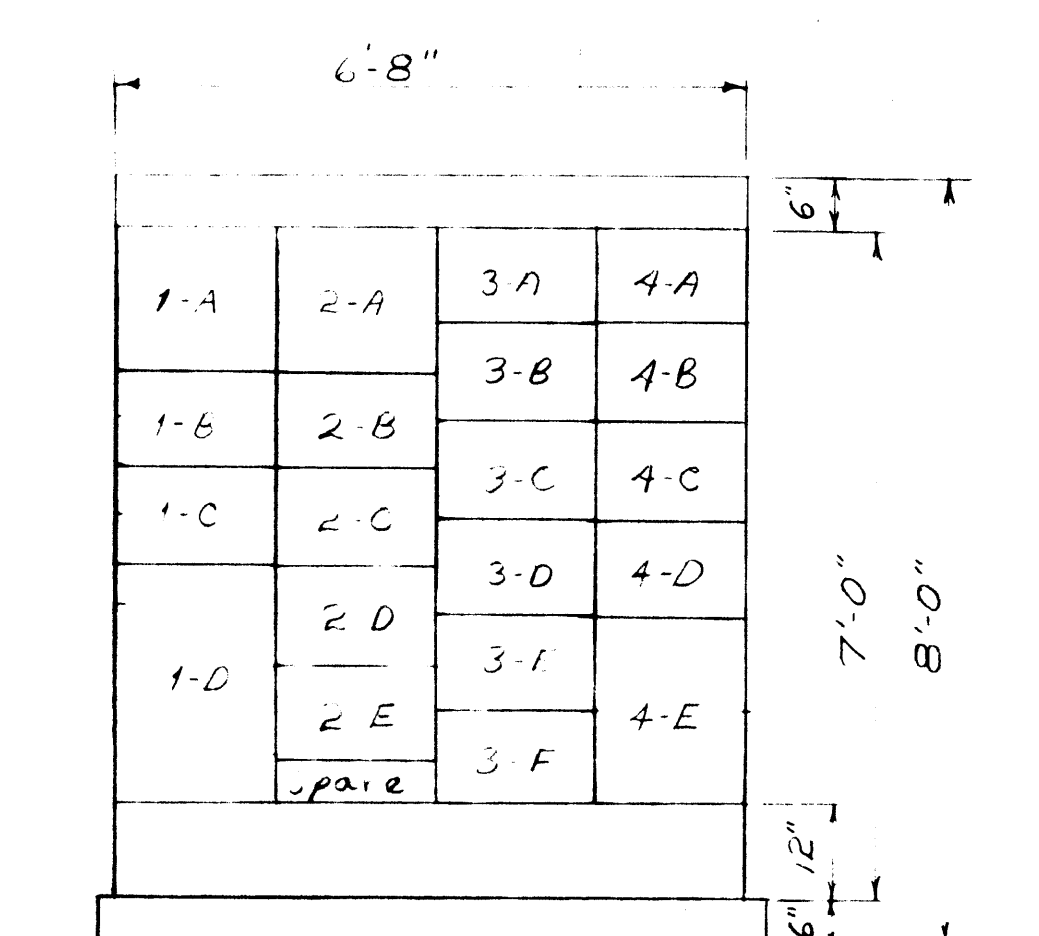
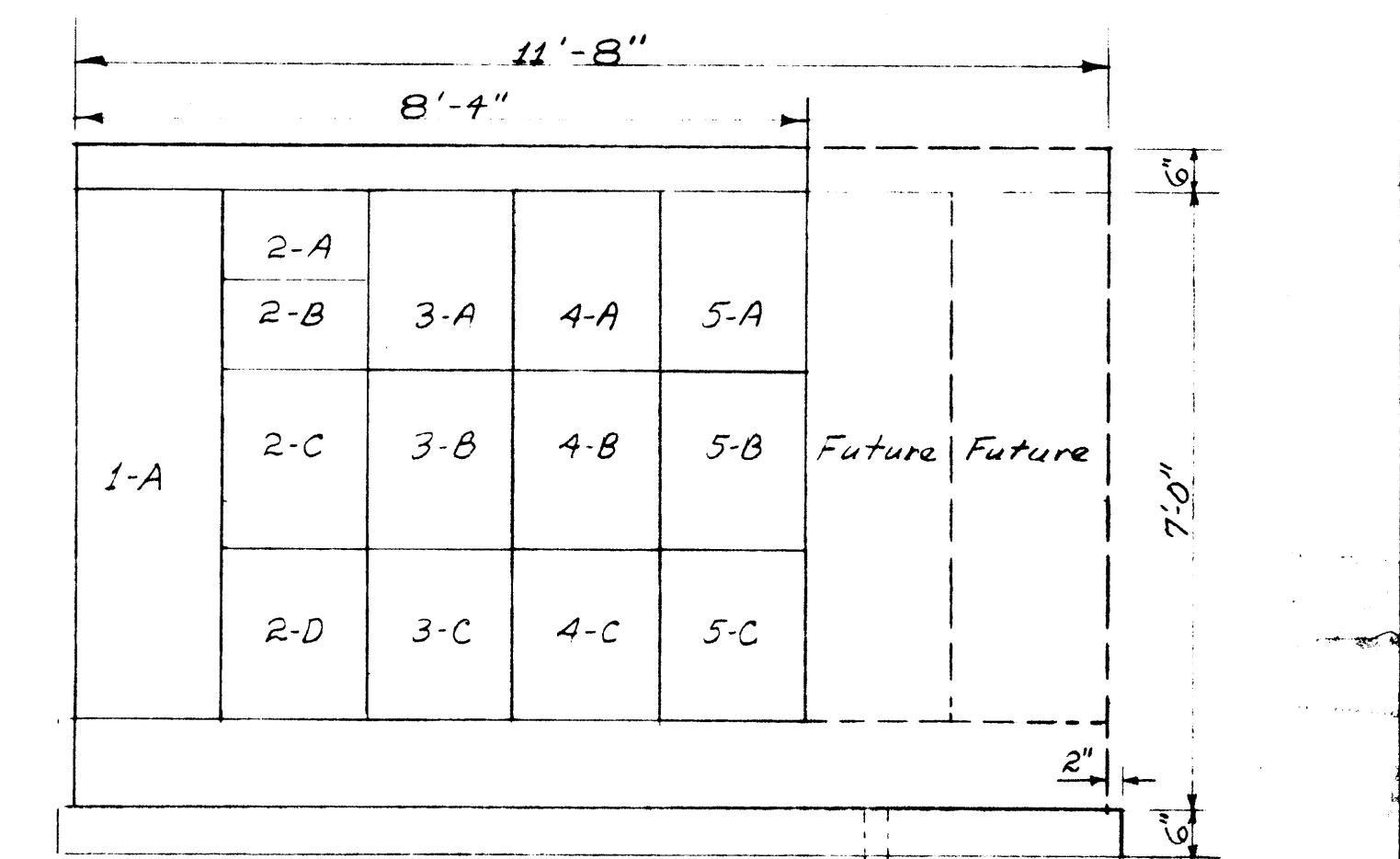
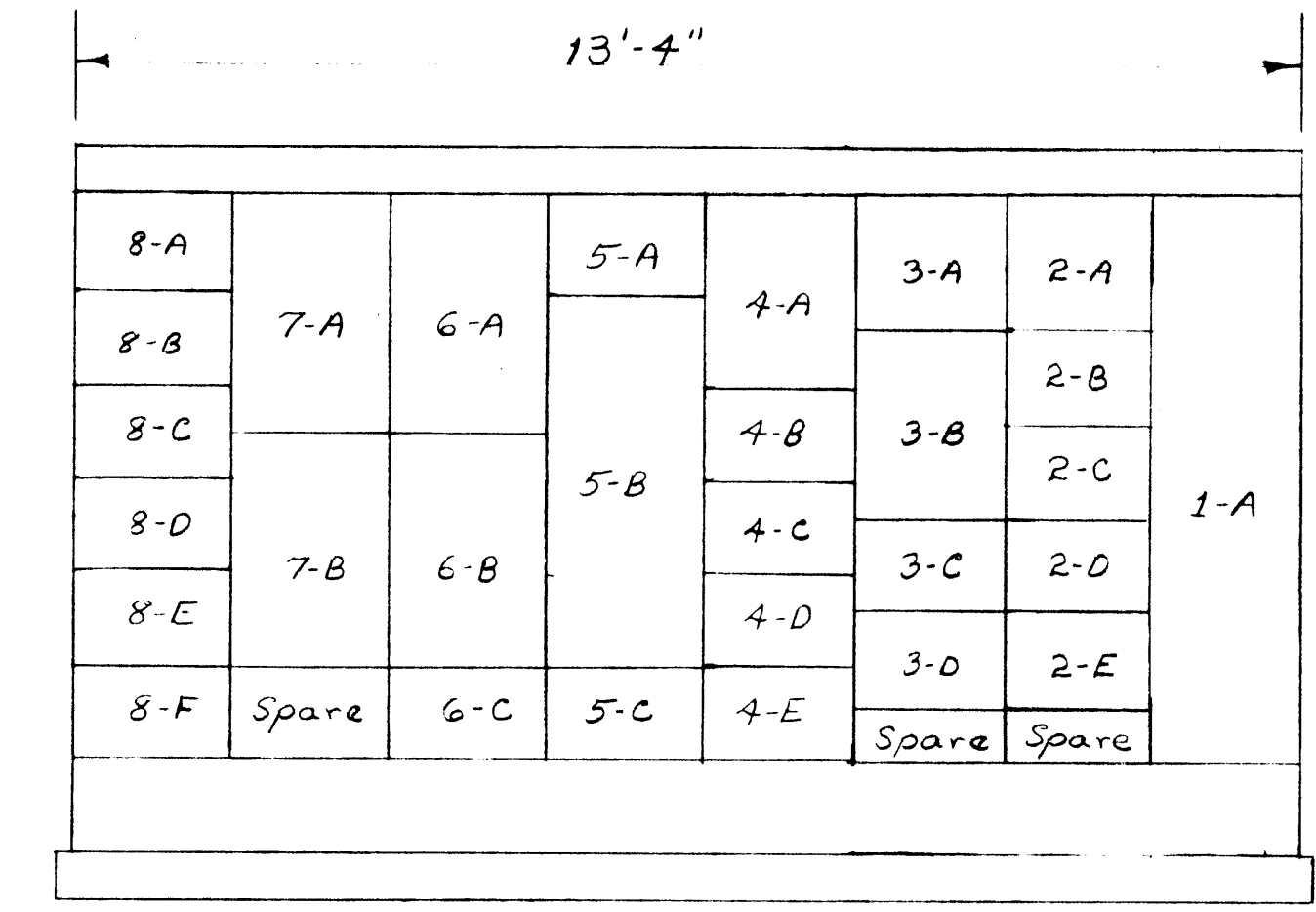
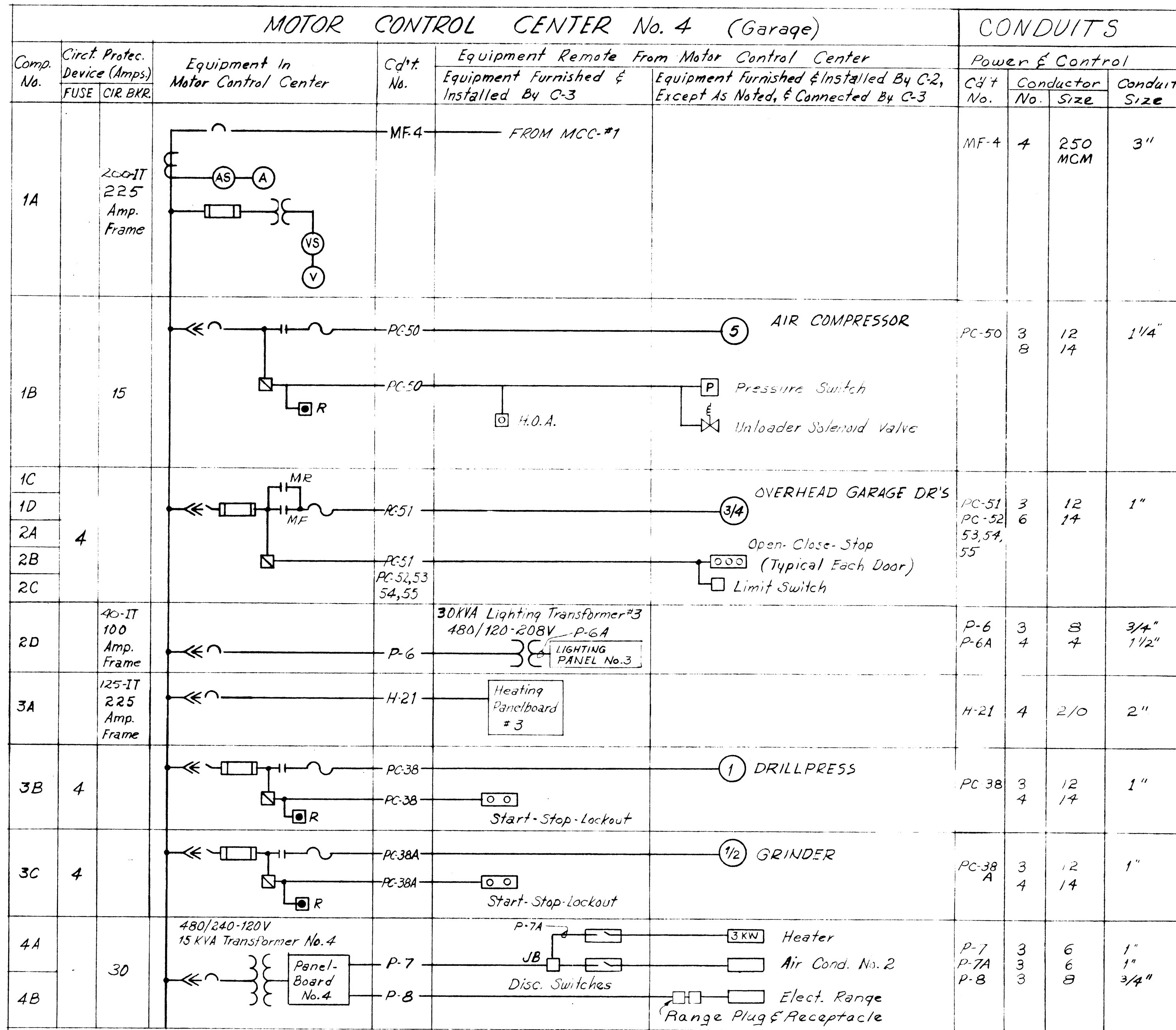




#### ADDITIONAL CONDUITS TO GRAPHIC PANEL

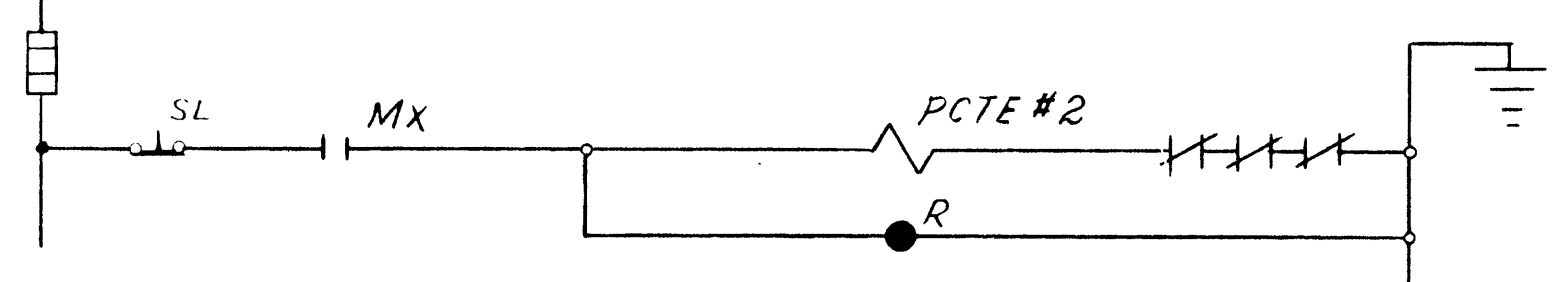
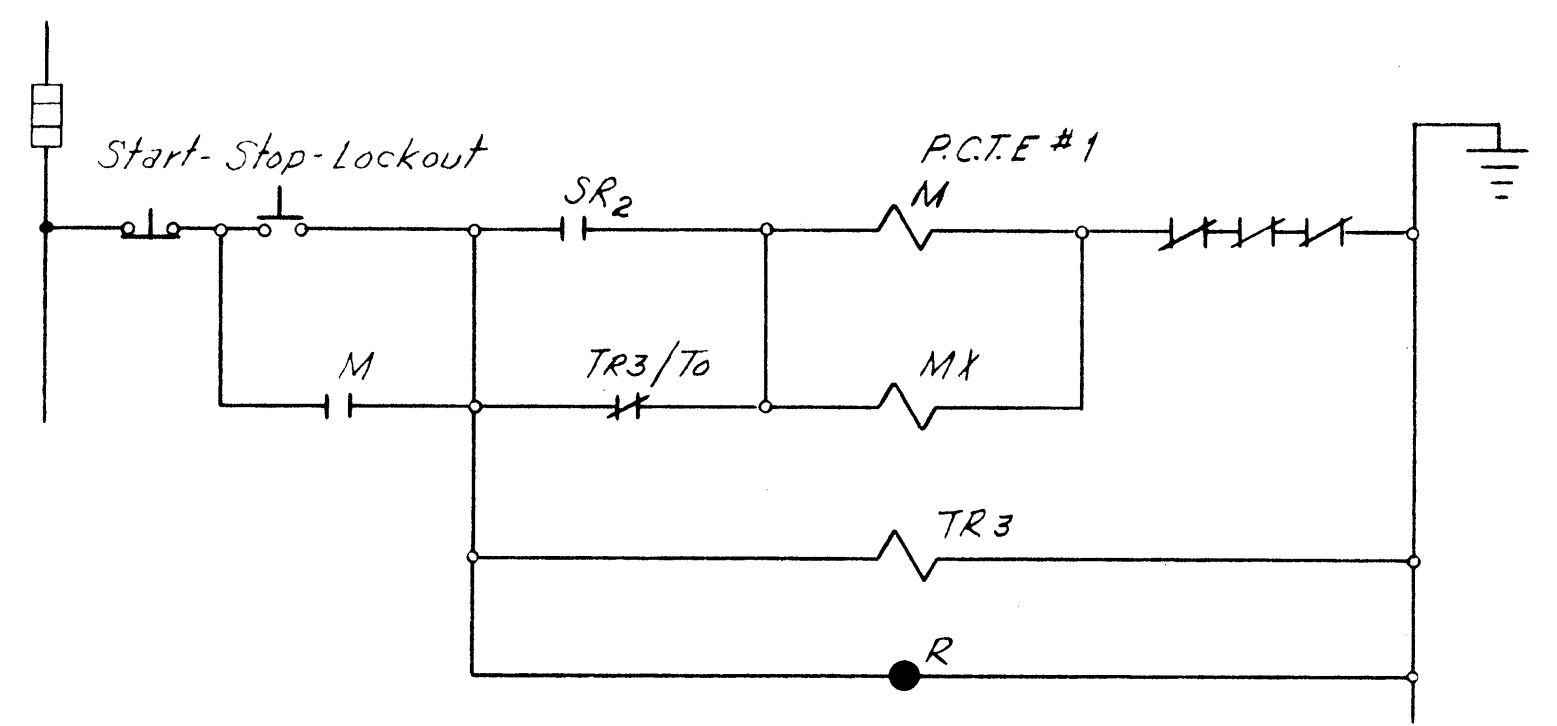
C-8, 9 & 11 - 2 #14, in 1/2" Conduit from Mag. Meters to M.C.C. #3 terminal Strip to Graphic Panel via CC-3  
 C-10 - 2 #14, in 1/2" Conduit Flow Trans. to Graphic Panel  
 C-12 - 4 #14, in 1/2" Conduit, Chlorine Residual Analyzer to M.C.C. #3 to Graphic Panel via CC-3  
 C-13 - 6 #14 in 1/2" Conduit Sluice Gate to Graphic Panel  
 CC-4 & 5 - Six Shielded Control Cables in each Conduit Sized as Shown on Sheet E-2. Quantity of #20 AWG Stranded Conductors as required by D.O. Probe Instrument Manufacturer. (Shielded Cables furnished by C-4) C-14, 25 - 2 #14 in 1/2" conduit to M.C.C. #3 Terminal Strip (Loss of Pressure Alarm)





WIRING LIST		
CIRCUIT	FROM	TO
Example Aerator No. 1 RP	M.C.C. No. 2-A1	G.P. -18

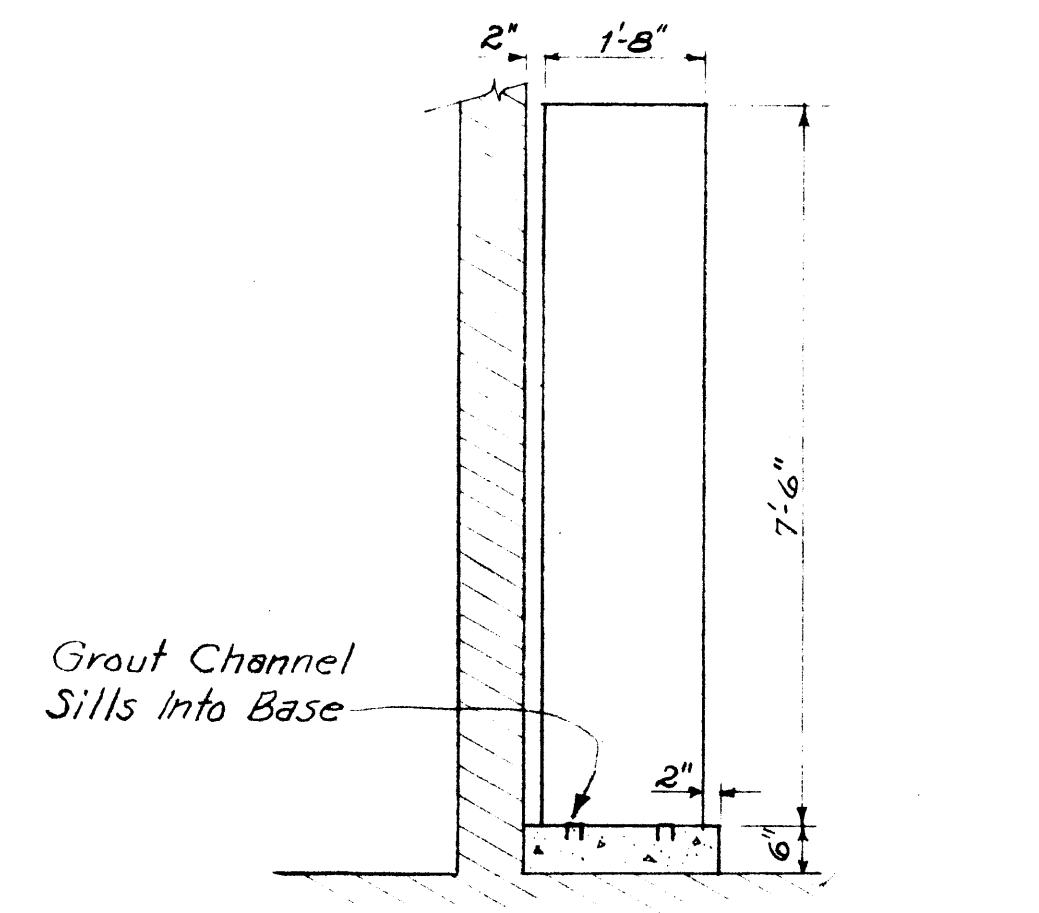
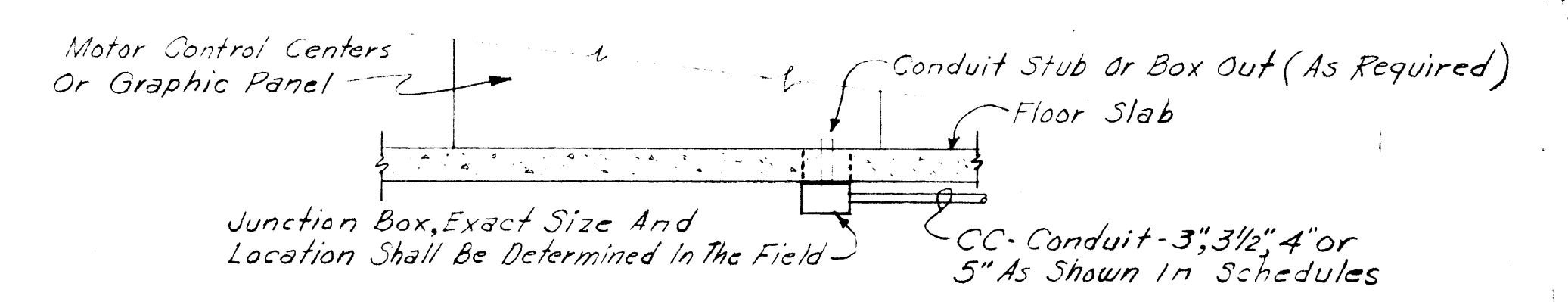
**Legend**  
 RP - Running Light For Aerator No. 1.  
 M.C.C. No. 2 - Motor Control Center No. 2 Terminal No. A-1.  
 G.P. -18 - Graphic Panel Terminal No. 18.



SR<sub>2</sub> - Static Pressure Relay Located in HCP for DH#7 } Furnished By C-4  
 TR<sub>3</sub> - Timing Relay Timed To Open Set @ 60 Sec.

PCTE #1 & PCTE #2 ELEMENTARY DIAGRAM

SAMPLE WIRING LIST CARD  
No Scale



CONTROL CABLE ENTRANCE DETAILS  
(Typical)

AS BUILT

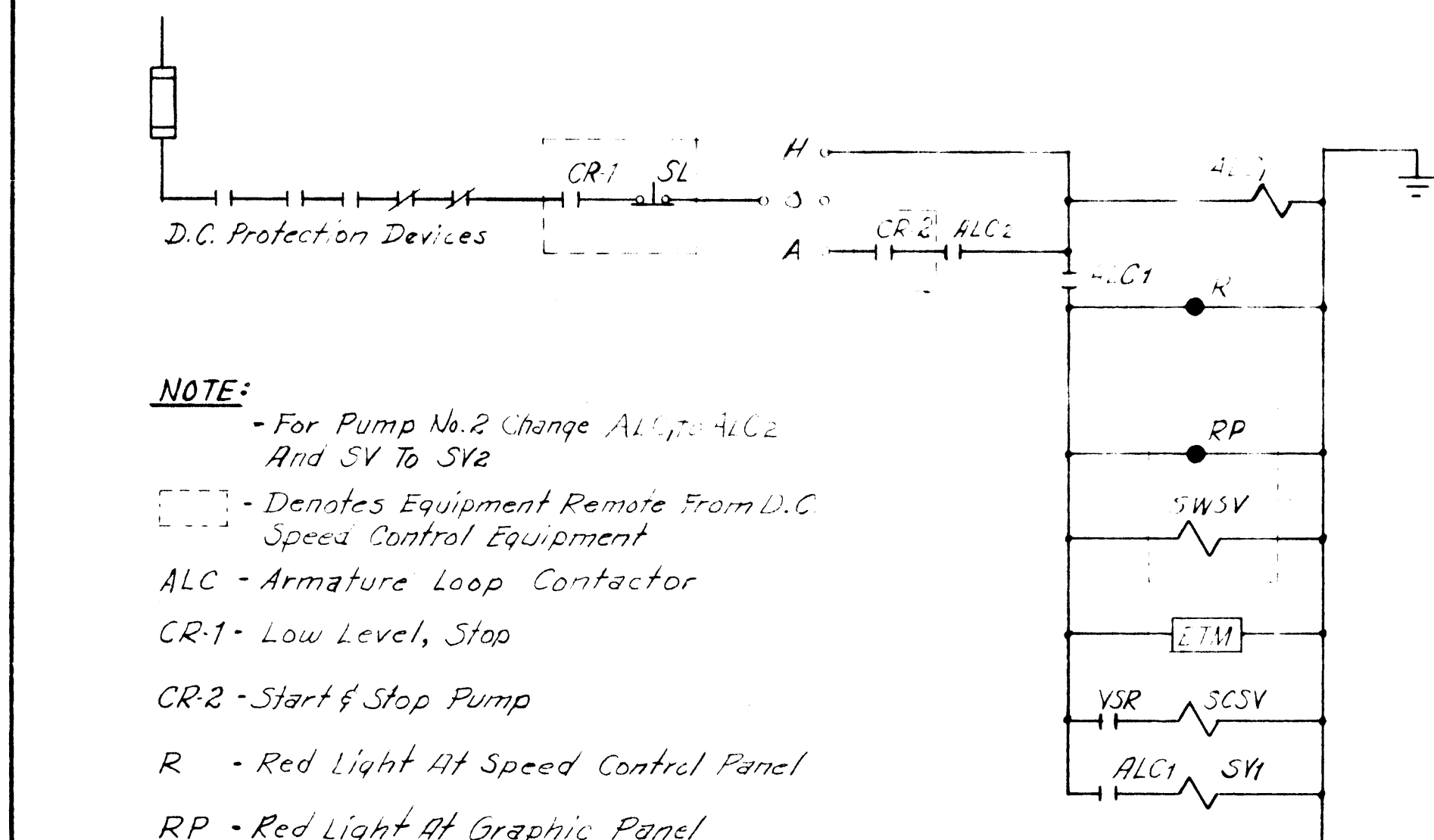
IN CHARGE OF: JDM  
 DESIGNED BY: RGF  
 MADE BY: JWK  
 CHECKED BY: DLP

Principal Engineer  
 N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		
<h2 style="margin: 0;">ONE LINE DIAGRAM</h2>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS 487 1/2 172 175 57 28 167 REVISIONS	DATE: FEBRUARY 14, 1968 SCALE: NO SCALE FILE NO.: 115-109-07F	

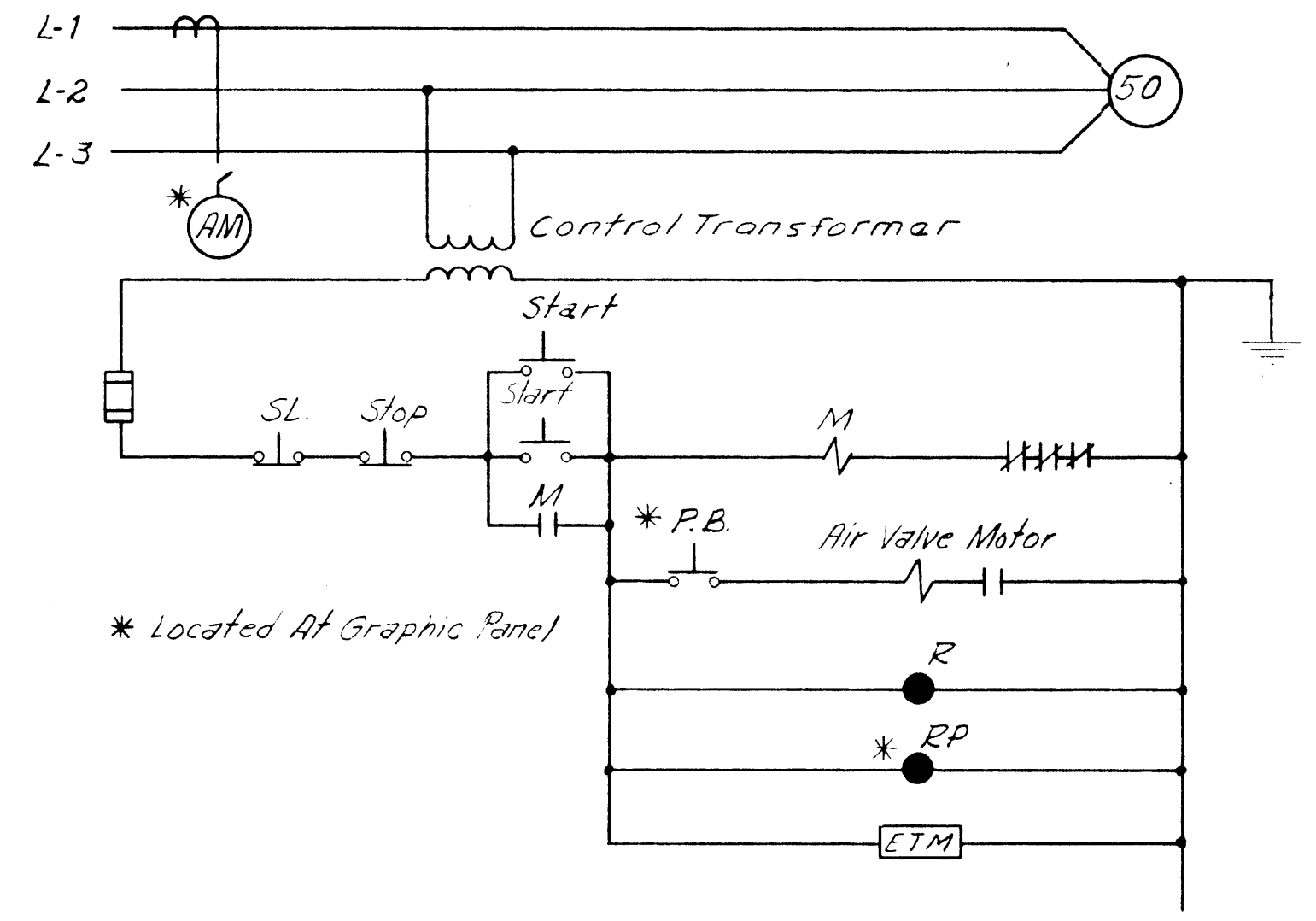


RECIRCULATING SLUDGE PUMPS LEVEL CONTROL DIAGRAM			
Control Stages	Control Function	Elementary Circuit Diagram	Remarks
Action	Elev.		
CRL	405.0	Low Level Backup Stop All Pumps	Elev. 408.0 Shall Be Set Point For Variable Speed Controller Elev. 408.0 Shall Be Maintained Within ± .5' CRL - Contacts Close On Rising Level Equipment Located In Meter Panel By C-2
CRL	406.0	Stop Pump	
CRL	411.0	Start Pump	
CRL	411.5	Spare Contact	
CRL	412.0	High Water Alarm	
CRL - Close On Rising Level			CR1 Stop All Pumps CR2 To Pump #1 CR2A To Pump #2 CR2B To Pump #3 CR2C To Pump #4 CR2D To Pump #5 CR2E To Pump #6 CR2F To Pump #7 CR2G To Pump #8 CR2H To Pump #9 CR2I To Pump #10 CR2J To Pump #11 CR2K To Pump #12 CR2L To Pump #13 CR2M To Pump #14 CR2N To Pump #15 CR2O To Pump #16 CR2P To Pump #17 CR2Q To Pump #18 CR2R To Pump #19 CR2S To Pump #20 CR2T To Pump #21 CR2U To Pump #22 CR2V To Pump #23 CR2W To Pump #24 CR2X To Pump #25 CR2Y To Pump #26 CR2Z To Pump #27

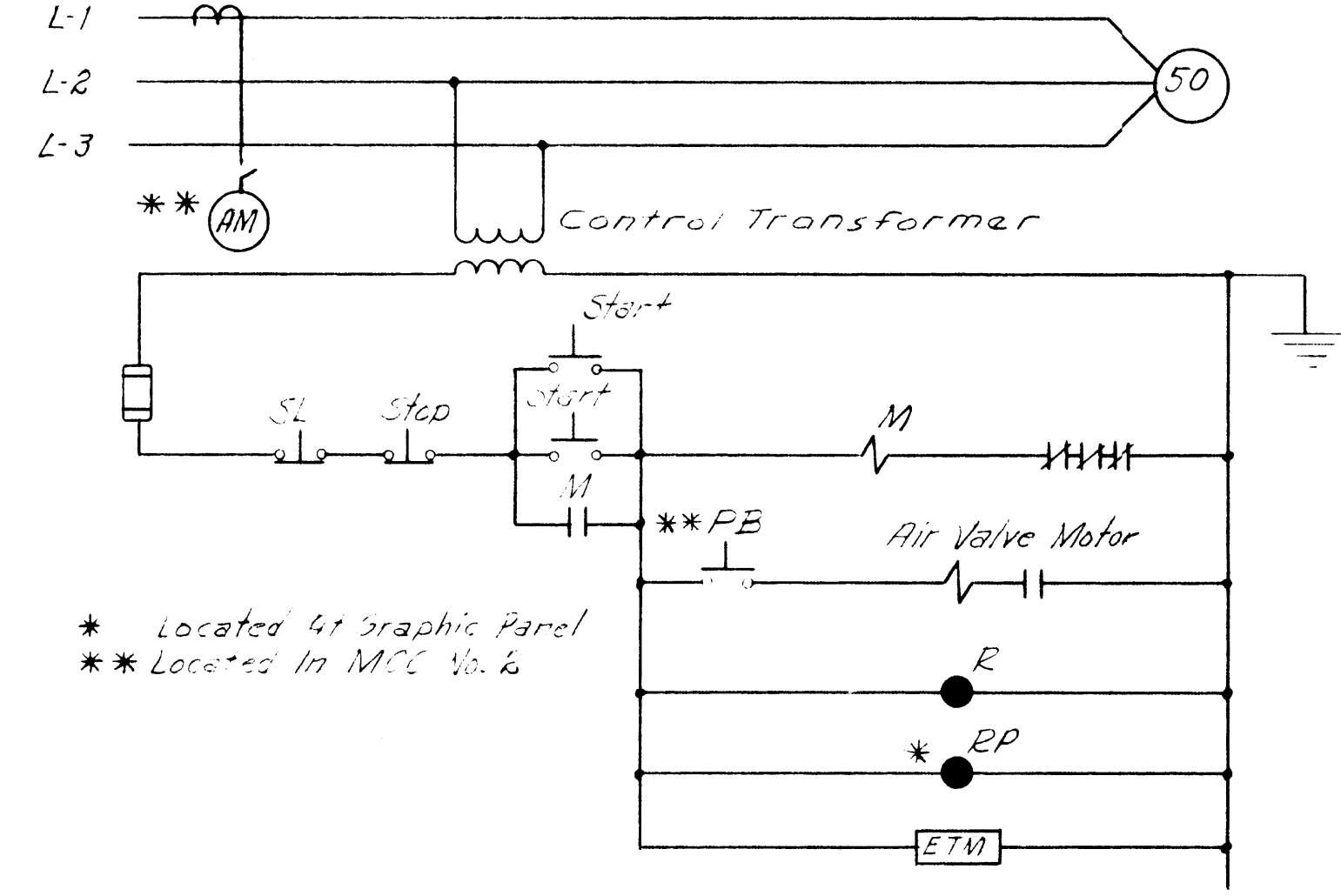


- NOTE:**
- For Pump No.2 Change ALC1 to ALC2 And SV to SV2
  - Denotes Equipment Remote From D.C. Speed Control Equipment
  - ALC - Armature Loop Contactor
  - CR-1 - Low Level, Stop
  - CR-2 - Start & Stop Pump
  - R - Red Light At Speed Control Panel
  - RP - Red Light At Graphic Panel
  - SWSV - Sewer Solenoid Valve
  - VSR - Voltage Sensitive Relay
  - SCSV - Speed Control Solenoid Valve
  - SV - Pneumatic Signal, 3 Way Solenoid Valve

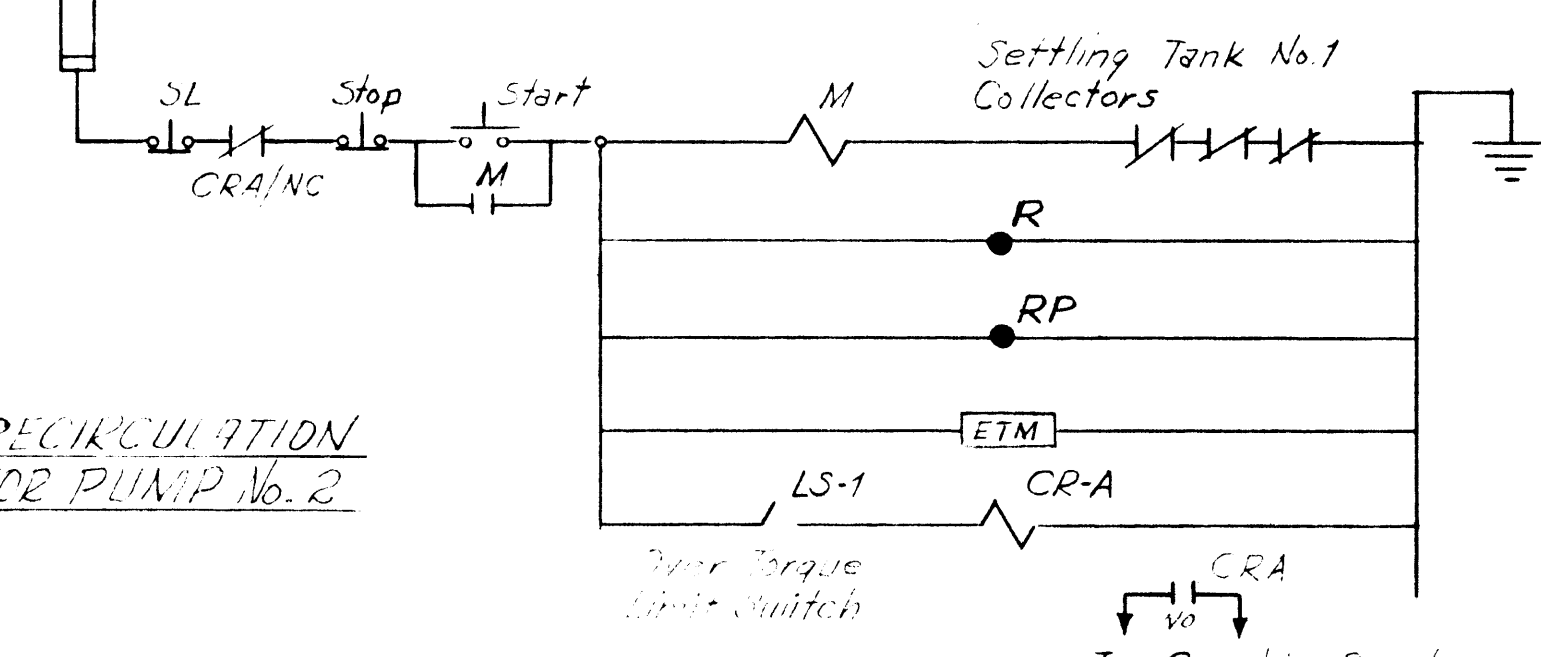
ELEMENTARY DIAGRAM FOR RECIRCULATION SLUDGE PUMP No.1, TYPICAL FOR PUMP No.2



ACTIVATED SLUDGE AERATOR No.1  
Typical for Aerators No.2 Thru No.6



DIGESTED SLUDGE AERATOR No.1  
Typical for Aerators 2 Thru 4



SETTLING TANK COLLECTOR No.1 ELEMENTARY DIAGRAM  
(Typical For No.2)

HEATING PANELBOARD No.1 (Influent Pump Station) 225A Mains

Breaker Size	Cond. No. Poles	Equip. Furnished # Installed By C-3	Equipment Furnished # Installed By C-4 (Power Connected By C-3)
30	3-0	H-8	HCP 6KW 10KW Duct Heaters No.5 & 6
15	3-0	H-3	HCP 3.7KW Duct Heater #7
40	1-0	H-4	SCR 2.3KW 2.3KW Silline Radiation
40	1-0	H-5	SCR 2.3KW 2.3KW Radiation
30	3-0	H-6	5.0KW CC Mechanical Room U.H.#16
15	2-0	L-1	7.5KW Emergency Gen. Room U.H.#17
50	2-0	L-2	Road Lights

- LEGEND**
- HCP - Control Distribution Center For Duct Heaters by C-4
  - CC - Cabinet Convector
  - U.H. - Unit Heater
  - SL - Stop Lockout
  - SSL - Start-Stop Lockout

HEATING PANELBOARD No.2 (Sludge Pump Sta) 225A Mains

30	3-0	H-10	HCP 10KW 10KW D.H.#1 & #2
60	3-0	H-11	HCP 20KW 20KW D.H.#3 & #4
30	3-0	H-12A	5KW U.H.#1 Chlorine Room
			5KW U.H.#2 TC-(Typical)
			5KW U.H.#3
			5KW U.H.#4
15	3-0	H-13	5KW U.H.#5 Pump Control Rm.
30	3-0	H-14	10KW U.H.#6 " " "

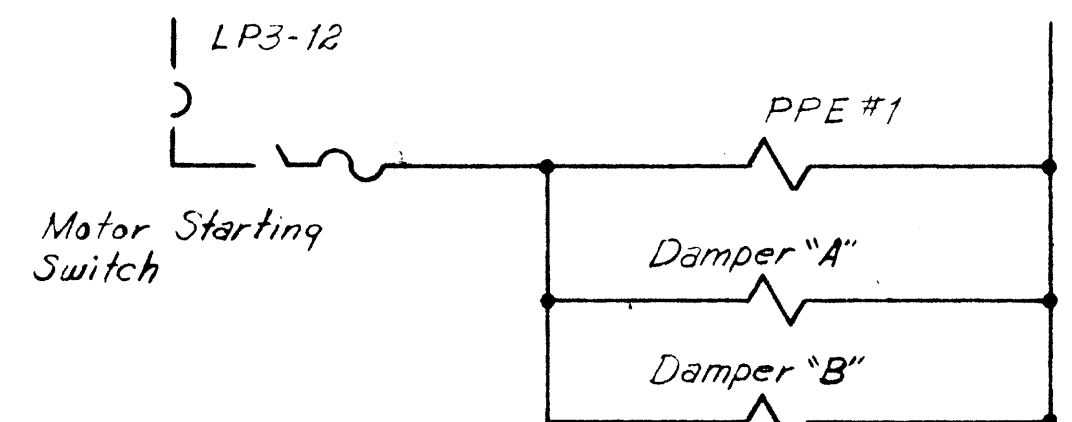
HEATING PANELBOARD No.3 (Garage) 225A Mains

40	3-0	H-15A	5KW U.H.#8
			5KW U.H.#9 TC-(Typical)
			10KW U.H.#10
			5KW U.H.#11
30	3-0	H-16A	5KW U.H.#12 TC-(Typical)
			10KW U.H.#13
			5KW U.H.#14
30	3-0	H-17A	10KW U.H.#7 TC-(Typical)
			10KW U.H.#15
30	1-0	H-18	1.50KW Type B Resistance Heaters
			1.50KW
			1.50KW
			1.70KW Type A Resistance Heater
30	1-0	H-19	1.2KW Type C Resistance Heaters
			3.6KW
			1.2KW

CONDUIT SCHEDULE HEATING PANELBOARDS

PANEL No.1			
Conduit No.	Conductors No.	Conduit Size	Remarks
H-8	4	8 1"	Conduits & Power Wires For Heating & Vent. Equipment, Furnished & Installed By C-3
H-3	4	12 3/4"	
H-4	2	8 3/4"	
H-5	2	8 3/4"	
H-6	3	10 3/4"	
L-1	2	6 1"	For Street Lights
L-2	2	4 1/4"	For Area Lights
TC	2	14" 1/2"	Thermostat Control Wire
PANEL No.2			
H-12 B, C, D, E	3	12 3/4"	Conduits & Wire For Heating & Ventilating Equip. Furnished & Installed By C-3 Unless Otherwise Shown
H-10	4	8 1"	
H-11	4	4 1/2"	
H-12A	3	10 3/4"	
H-13	3	12 3/4"	
H-14	3	10 3/4"	
PANEL No.3			
H-15A	3	8 3/4"	Conduits & Wire For Heating And Ventilating Equipment, Furnished And Installed By C-3
H-15 B, C, D, E	3	12 3/4"	
H-16A	3	10 3/4"	
H-16 B, C, D	3	12 3/4"	
H-17A	3	10 3/4"	
H-17 B, C	3	12 3/4"	
H-18 A, B, C, D	2	10 3/4"	
H-19 A, B, C	2	10 3/4"	

Heating Panelboards shall Have a Min of 2 Spare 3 Pole Circuits each



PPE #1, ELEMENTARY DIAGRAM  
(Located in Garage)

JF 331  
JMB 1/1/72  
JMB 1/1/72  
WJP 1/1/72

IN CHARGE OF: JDM  
DESIGNED BY: RGF  
MADE BY: JWK  
CHECKED BY: DLP

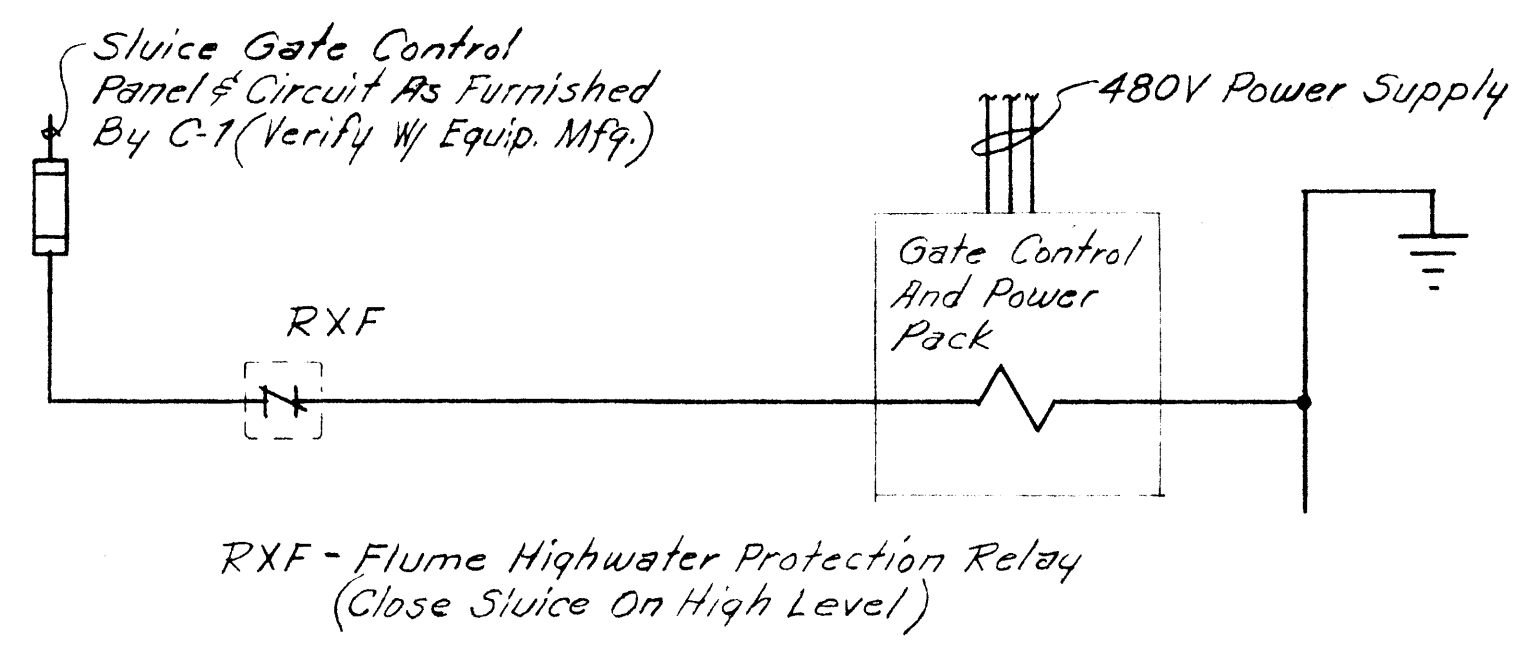
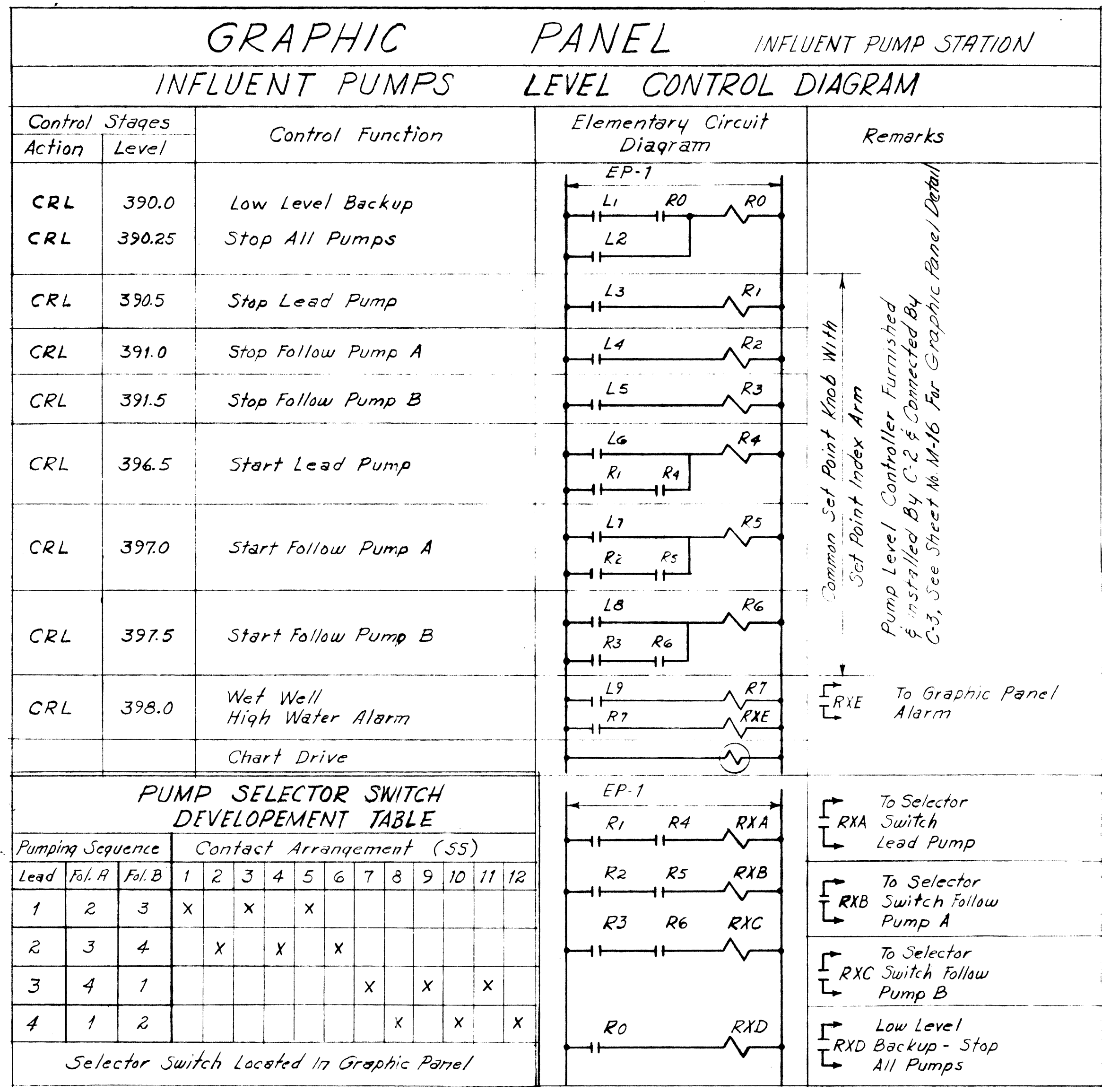
PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT  
**HEATING PANELBOARDS & ELEM. DIAGRAMS**

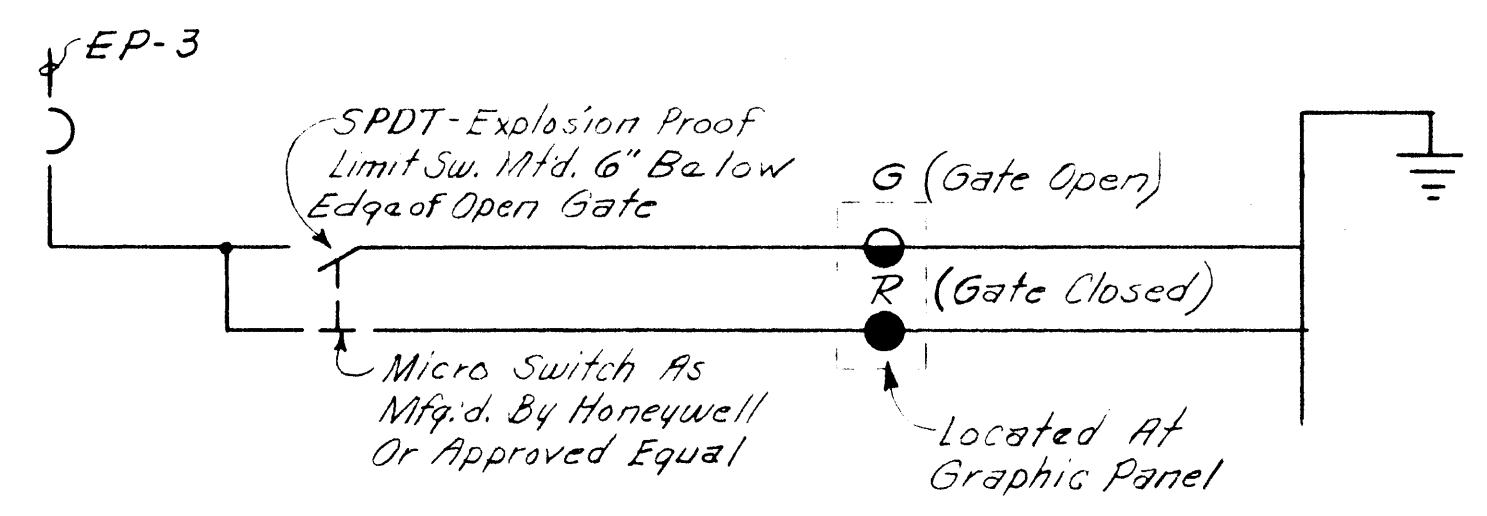
O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
SYRACUSE, NEW YORK

DATE: FEBRUARY 14, 1968  
SCALE: NO SCALE  
FILE NO.: 15.14-08F

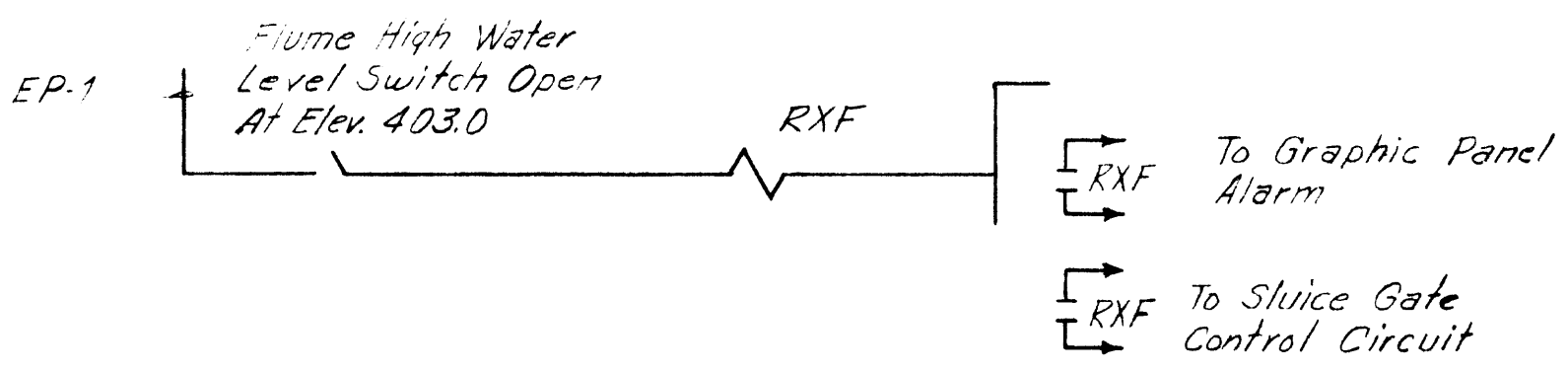
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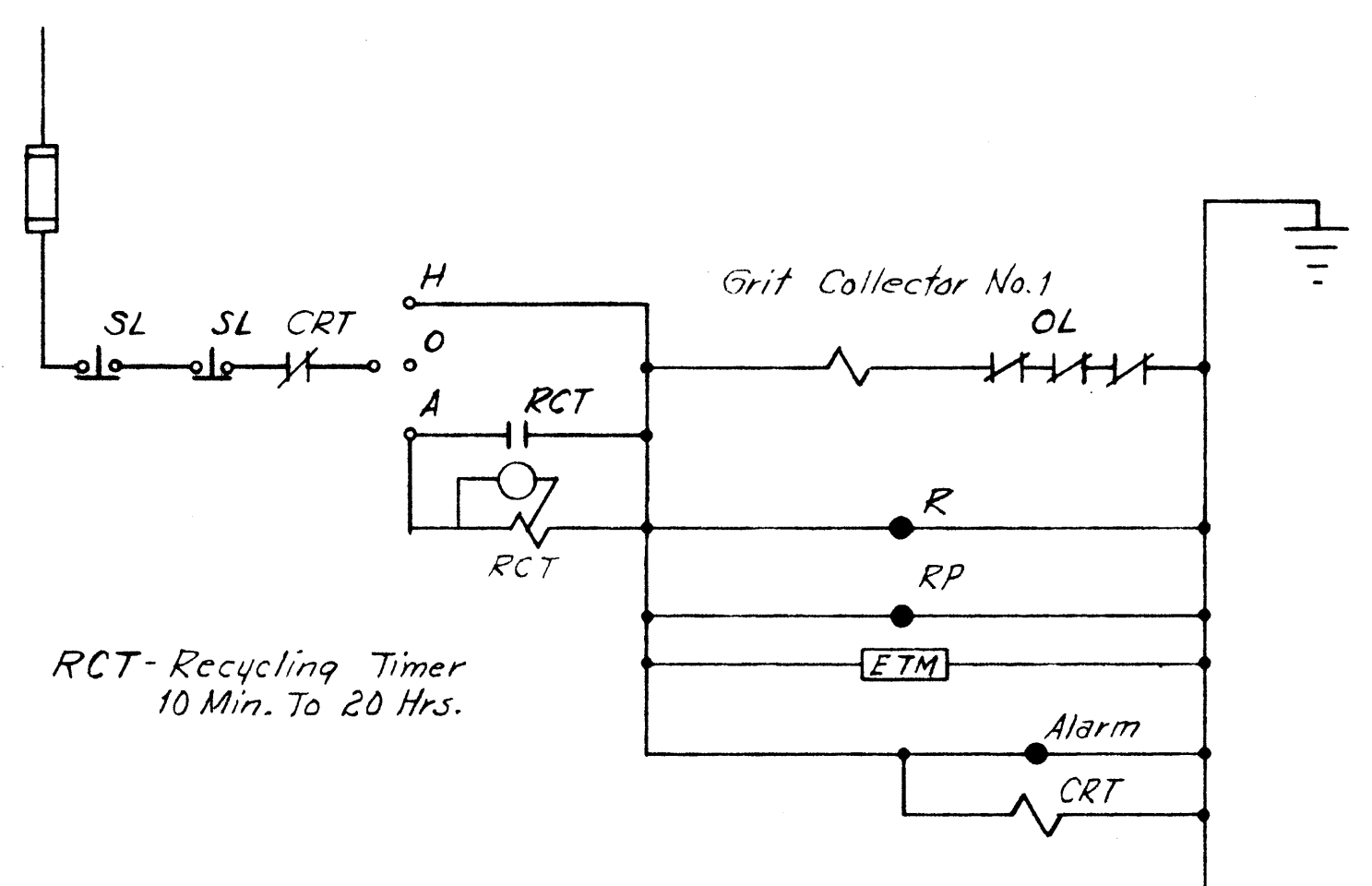
SLUICE GATE REMOTE CONTROLLING FUNCTION



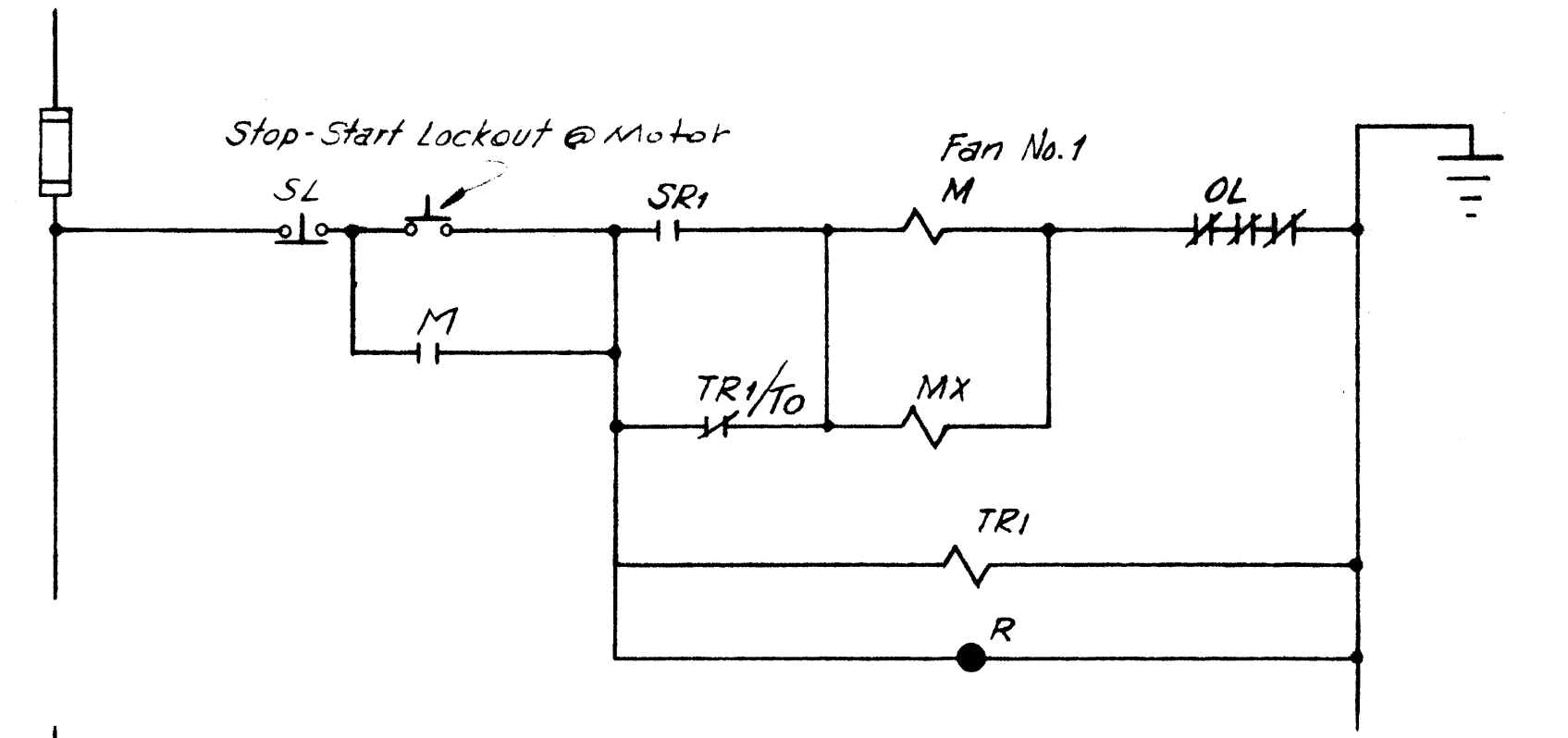
SLUICE GATE INDICATING LIGHTS ELEMENTARY DIAGRAMS



FLUME HIGH LEVEL PROTECTION CONTROL DIAGRAM



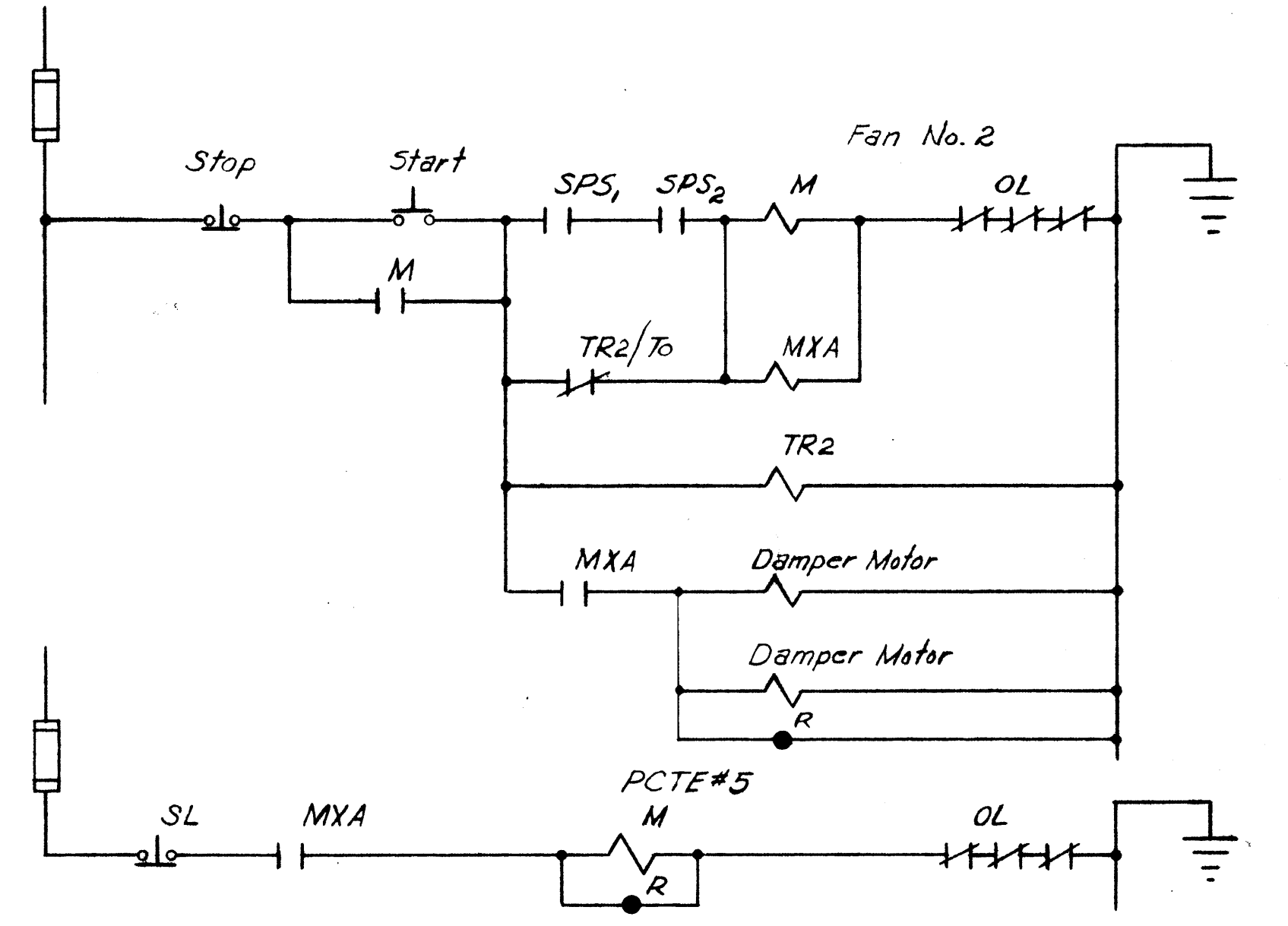
GRIT COLLECTOR No. 1, ELEMENTARY DIAGRAM  
TYPICAL FOR COLLECTOR No. 2



SR1 - Static Pressure Relay For Fan No. 1  
Located In HCP For Vent Unit No. 1 } Furnished By C-4

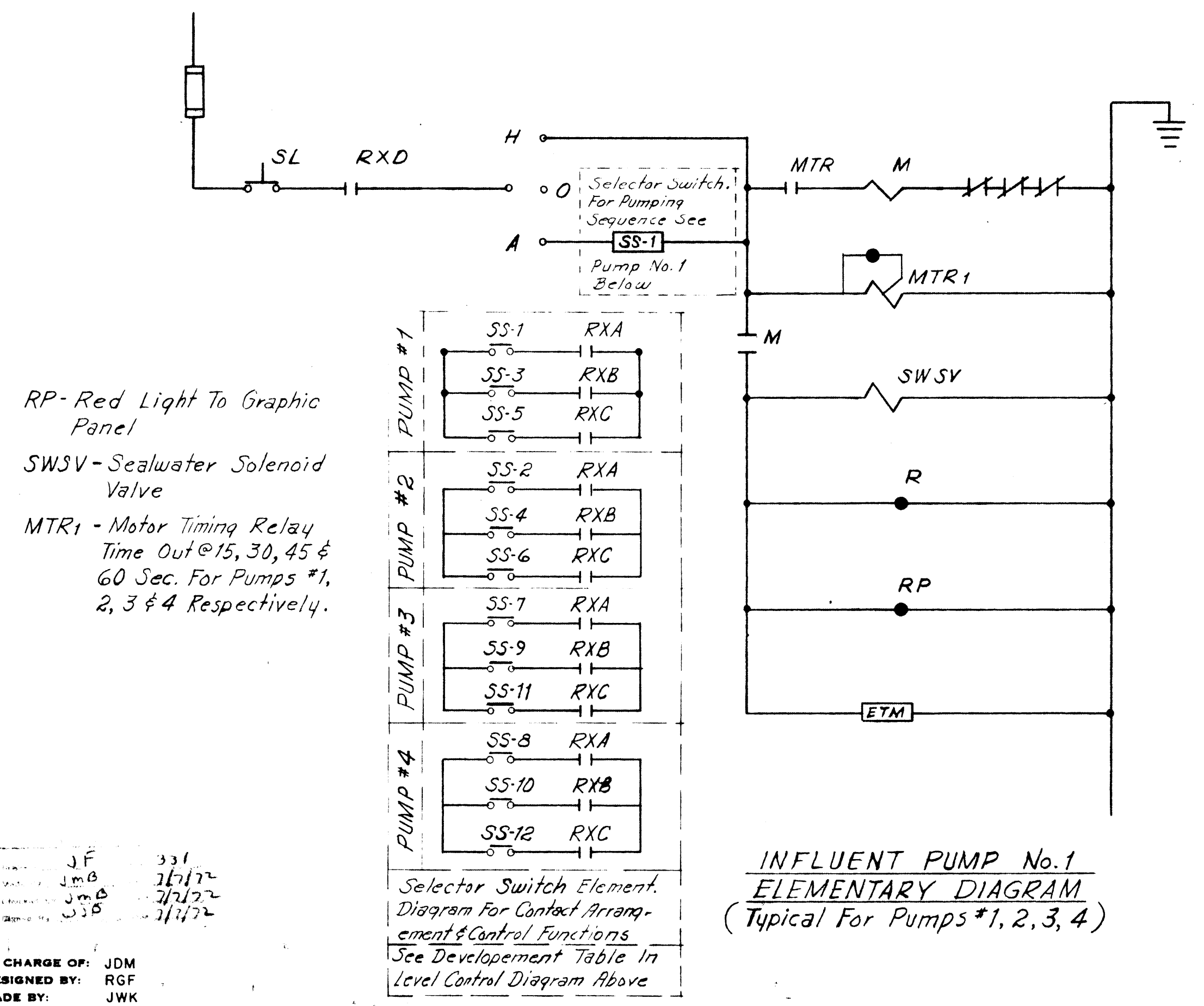
TR1 - Timing Relay Timed To Open Set @ 60 Sec.

VENTILATION UNIT FAN No. 1, AND  
PCTE #4, ELEMENTARY DIAGRAM



Furnished By C-3 { SPS1 - Static Pressure Sensor For Fan No. 2  
SPS2 - Static Pressure Sensor For PCTE #5  
TR2 - Timing Relay Timed To Open Set @ 60 Sec.

VENTILATION UNIT FAN No. 2, AND  
PCTE #5, ELEMENTARY DIAGRAMS



RP - Red Light To Graphic Panel

SWSV - Sealwater Solenoid Valve

MTR1 - Motor Timing Relay  
Time Out @ 15, 30, 45 & 60 Sec. For Pumps #1, 2, 3 & 4 Respectively.

PUMP #	SS	RXA	RXB	RXC
PUMP #1	SS-1	RXA		
	SS-3	RXB		
	SS-5	RXC		
PUMP #2	SS-2	RXA		
	SS-4	RXB		
	SS-6	RXC		
PUMP #3	SS-7	RXA		
	SS-9	RXB		
	SS-11	RXC		
PUMP #4	SS-8	RXA		
	SS-10	RXB		
	SS-12	RXC		

Selector Switch Element. Diagram For Contact Arrangement & Control Functions  
See Development Table In Level Control Diagram Above

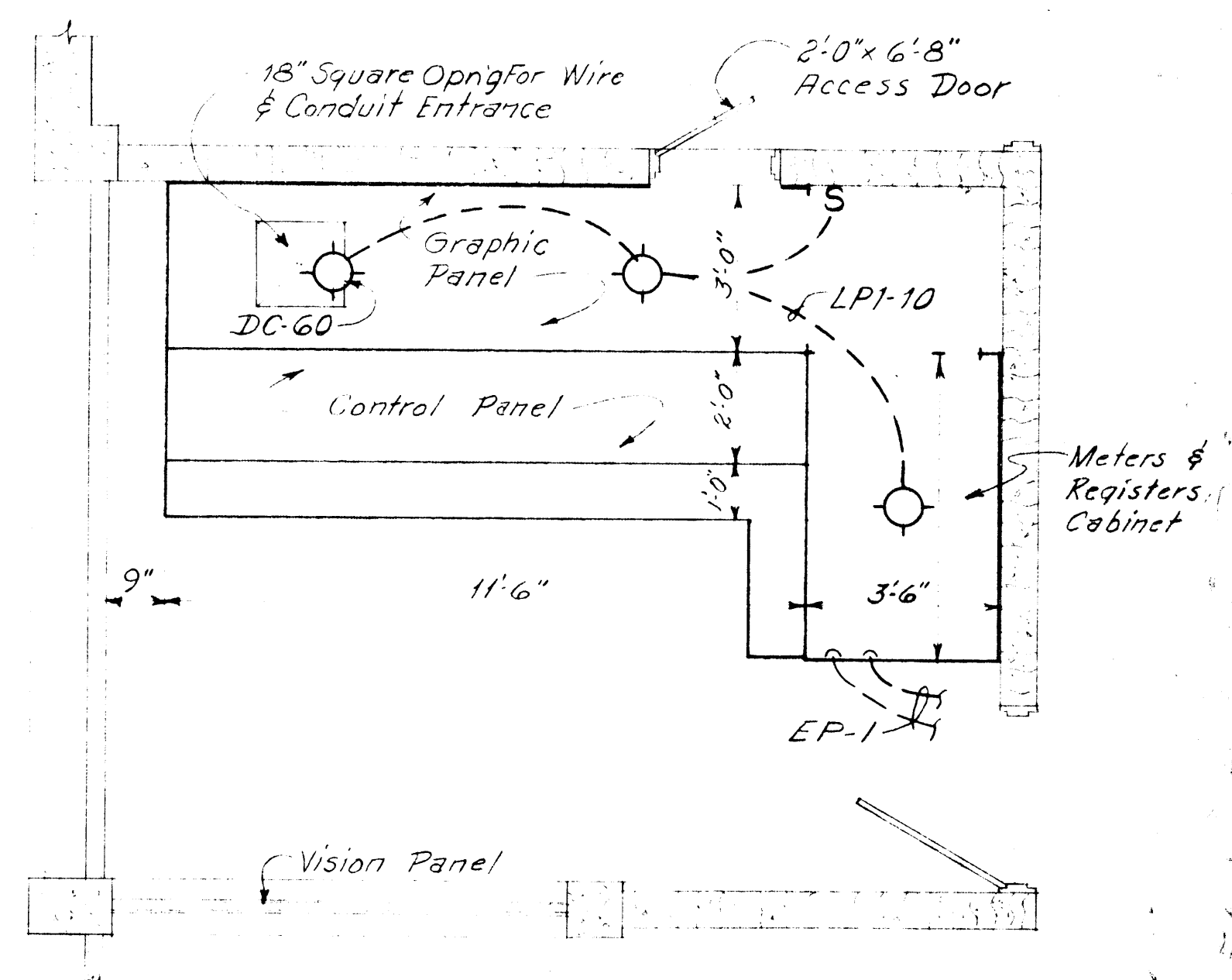
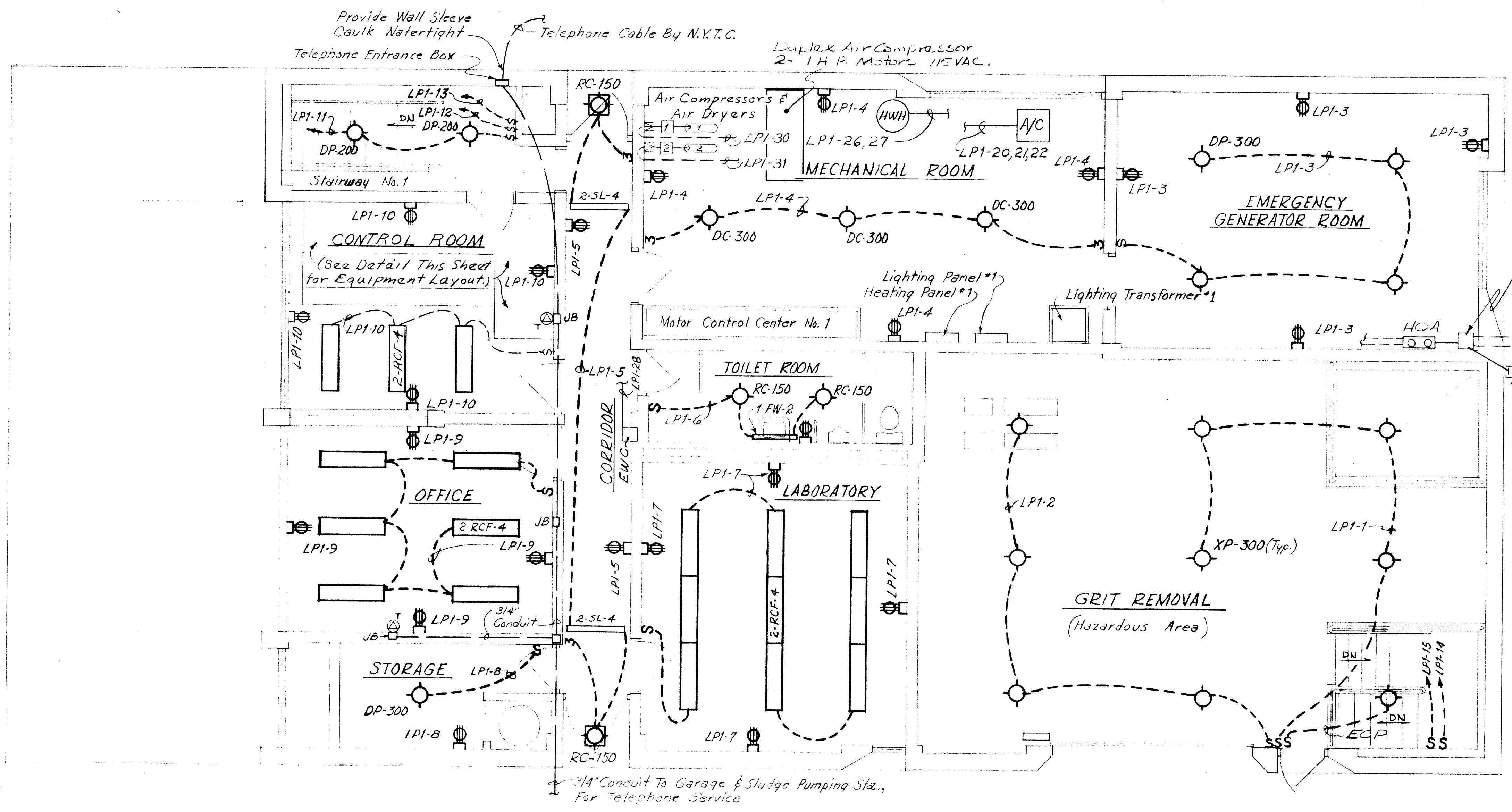
IN CHARGE OF: JDM  
DESIGNED BY: RGF  
MADE BY: JWK  
CHECKED BY: DLP

PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

AS BUILT

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		
<b>ELEMENTARY DIAGRAMS</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: NO SCALE FILE NO.: 1519-09F	<b>E9</b>





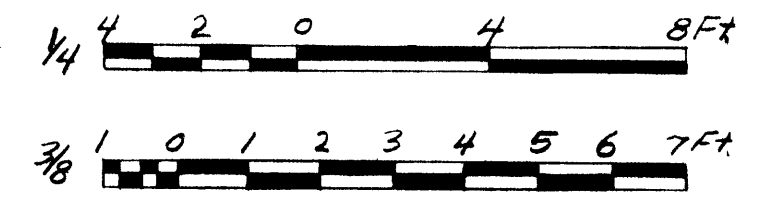
PLAN

LIGHTING PANEL NO. 1 (Influent Pumping Station)					
Circuit No.	Location	Number & Type of Fixtures	Other Outlets	Total Watts	Remarks
LPI-1	Grit Removal Room	5-XP300		1500	Light Fixture Mounting Height 10'-6", Recp 3'-0"
LPI-2	Grit Removal Room	4-XP300		1200	Mnt'g Ht 10'-6" Except Over Elevator 14'-0"
LPI-3	Emergency Gen. Room	4-DP300	4	1800	Mnt'g. Ht 11'-0"
LPI-4	Mechanical Room	3-DC300	4	1500	
LPI-5	Corridor	2-2SL-4 2-RC150	2	760	
LPI-6	Toilet	2-RC150 1-FW-2	1	490	Mnt'g Ht. 8'-4"
LPI-7	Laboratory	9-2RCF4	4	1320	" " "
LPI-8	Storage	1-DP300	1	450	Mnt'g Ht 10'-6"
LPI-9	Office	6-2RCF4 3-2RCF4 3-DC60	4	1080	" " 8'-4"
LPI-10	Control Room	2-DP200 1-SB200 2-HBC500	1	1750	DP-10'-6" ; HBC-23'-6"
LPI-11	Stairway No. 1 & Pump Room	2-DP200 1-SB200 2-HBC500	1	1750	DP-10'-6" ; HBC-23'-6"
LPI-12	Pump Room	3-HBC500	2	1800	Mnt'g Ht 23'-6"
LPI-13	Pump Room	3-HBC500	1	1650	" " "
LPI-14	Screen Room	1-XP300 2-XB200		700	XP-10'-0" SB-7'-0"
LPI-15	Screen Room	3-XP300		900	Mnt'g Ht. 10'-0"

LPI-16	Grit Room	4-XP-300		1200	Mnt'g Ht. 12'-0"
LPI-17	Grit Room	4-XP-300		1200	" " "
LPI-18	Grit Room	4-XP-300		1200	" " "
LPI-19	Grit Room	4-XP-300		1200	" " "
LPI-20 LPI-21 LPI-22	Mechanical Room		Air Con- ditioner	7500	3 Pole, 50 Amp Breaker 208V
LPI-23	Laboratory		CPE #1 1/4 H.P.	700	Motor Starting Switch Req.
LPI-24	Pump Room		Recip Fans No. 1 & 2	1400	1/4 H.P. Each Motor Starting Switch Req.
LPI-25	Emergency Gen. Room		4-Way Sol- enoid Valve	450	For Emergency Generator Operation of Louver
LPI-26 LPI-27	Mechanical Room		Hot Water Heater	9000	50A, 208V, 2 Pole Breaker
LPI-28	Corridor		Elec Water Cooler	900	
LPI-29	Pump Room		Sump Pump	1200	1/2 H.P.
LPI-30	Mech. Room		Air Comp. & Air Dryer #1	1000	Air Compressor 1/3 H.P. Motor Starting Sw. Req.
LPI-31	Mechanical Room		Air Comp & Dryer #2	1000	Air Compressor 1/3 H.P. Motor Starting Switch Req.
LPI-32 to 36	Spares				
				Total Watts	45,870

CONTROL ROOM EQUIPMENT LAYOUT

Notes:  
 1) In Grit Removal Room & Emergency Room of the Influent Pumping Station remove light XP-300 located over stair No. 2 and light SB-200 located at the center of stair No. 2 from their respective lighting circuits. LPI-1 & LPI-2 power them from the Emergency Control Power Panel located in M.C.C. No. 1. This circuit shall have a switch installed in gang with existing switches.  
 2) Telephone Junction Boxes To Be Coordinated With Equipment Placement To Provide Adequate Access. Sleeves Shall Be Provided For Conduit Entrances To Buildings And Caulked Watertight. All Conduits, Receptacles, Switches And Junction Boxes In Corridor, Control Room, Office, Lab. & Toilet Room Shall Be Recessed.



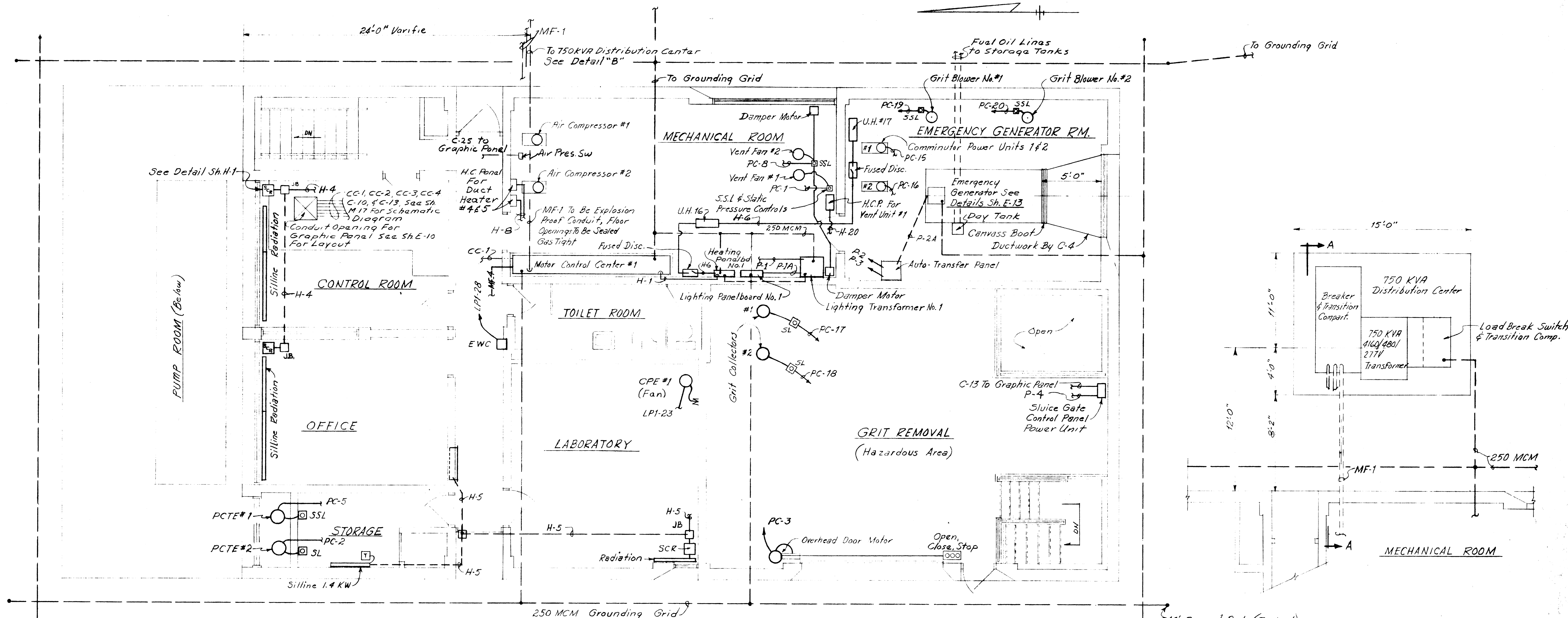
AS BUILT

JF 331  
 JWB 1/17/72  
 JWB 1/17/72  
 JWB 1/17/72  
 IN CHARGE OF: JDM  
 DESIGNED BY: JWK, WRA  
 MADE BY: JWK  
 CHECKED BY: RGF

PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

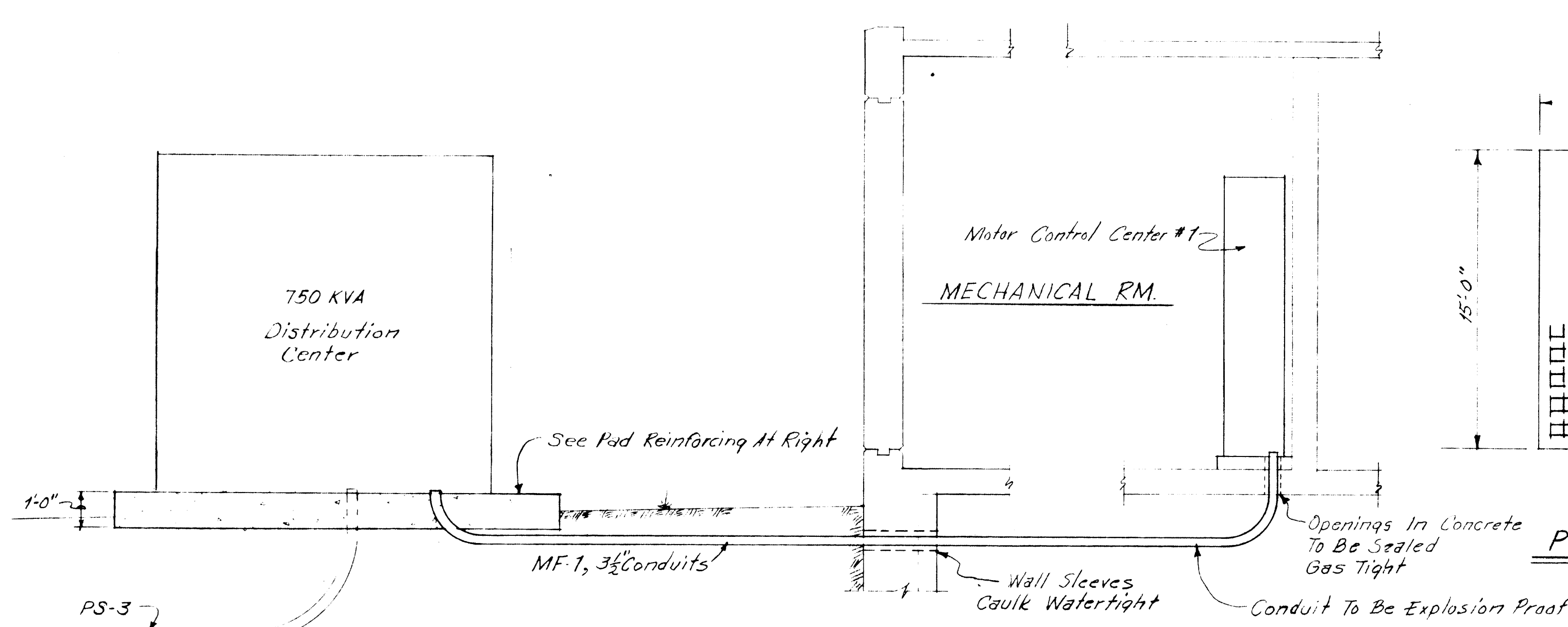
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT <b>TREATMENT PLANT          INFLUENT PUMP STATION          LIGHTING</b>		
<b>O'BRIEN &amp; GERE</b> CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: 1/4" = 1'-0" FILE NO.: 15147-11F	

EIO

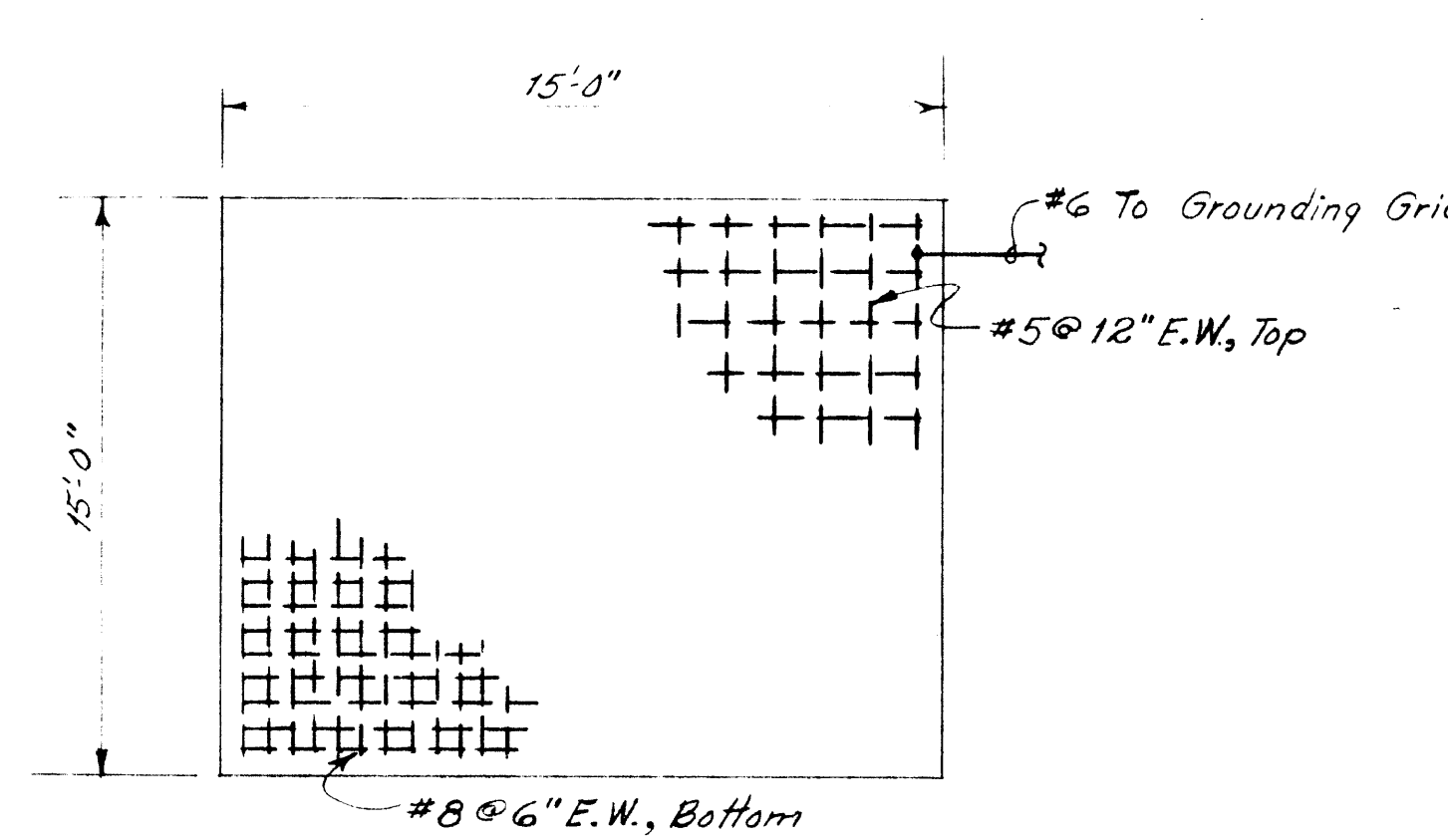


**PLAN**  
Scale: 1/4" = 1'-0"

**DETAIL "B"**  
Scale: 1/4" = 1'-0"



**SECTION A-A**  
Scale: 3/8" = 1'-0"



**PLAN-PAD REINFORCING**

**NOTE:** All Electrical Devices Located In Hazardous Areas Shall Be Rated Nema Class I Group D Division I

**AS BUILT**

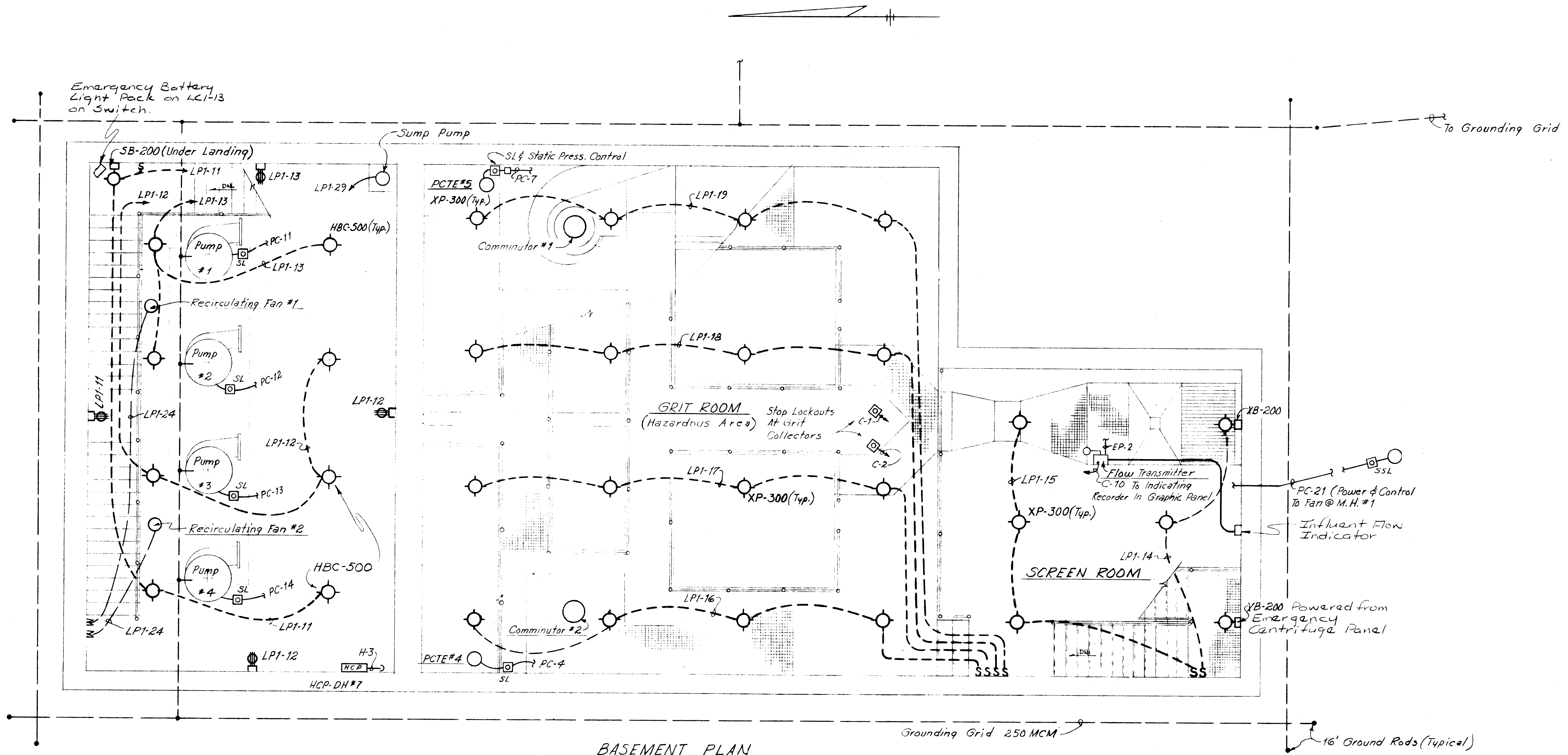
J.F. 331  
J.M.P. 3/2/72  
J.W.G. 7/4/72  
D.L.P. 7/12/72

IN CHARGE OF: JDM  
DESIGNED BY: RGF  
MADE BY: JWK  
CHECKED BY: DLP

Principal Engineer  
N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT <b>INFLUENT PUMP STATION          POWER PLAN</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: 1/4" = 1'-0" FILE NO.: 115,149-16F	
REVISIONS 20 7/7/72 21 5/18/69		<b>E-11</b>





**BASEMENT PLAN**  
Scale: 1/4" = 1'-0"

NOTE:  
All Electrical Devices Located In Hazardous Areas Shall Be Rated Nema Class I, Group D, Division I

AS BUILT

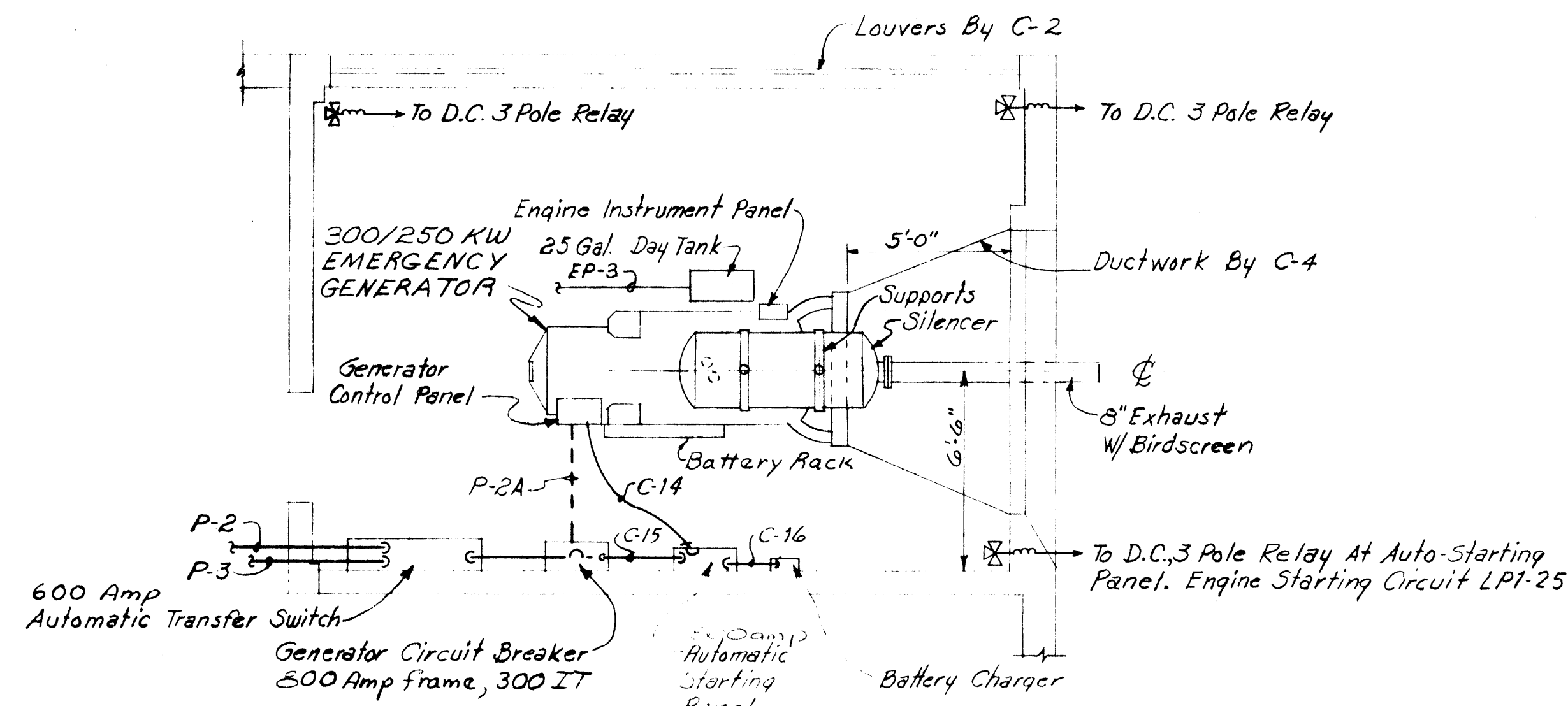


J.F. 331  
J.M.B. 2/17/68  
J.M.B. 2/22/68  
W.P. 2/22/68

IN CHARGE OF: JDM  
DESIGNED BY: JWK, WRA  
MADE BY: JWK  
CHECKED BY: RGF

Principal Engineer N.Y.S.P.E. LIC. NO. 39764

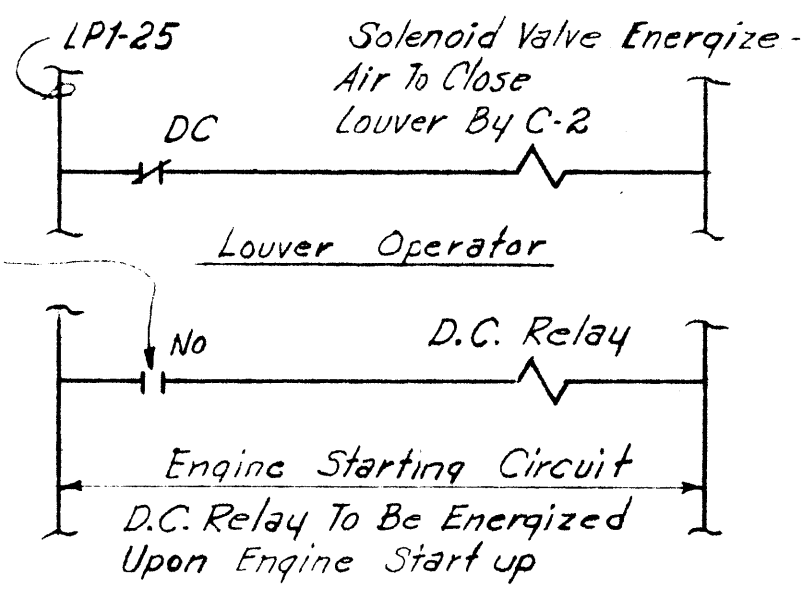
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		Professional Engineer
<b>INFLUENT PUMP STATION POWER &amp; LIGHTING</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, N.Y.		DATE: FEBRUARY 14, 1968
AS 7/2/72 2/25/69 REVISIONS	SCALE: 1/4" = 1'-0"	FILE NO.: 15.179-12F



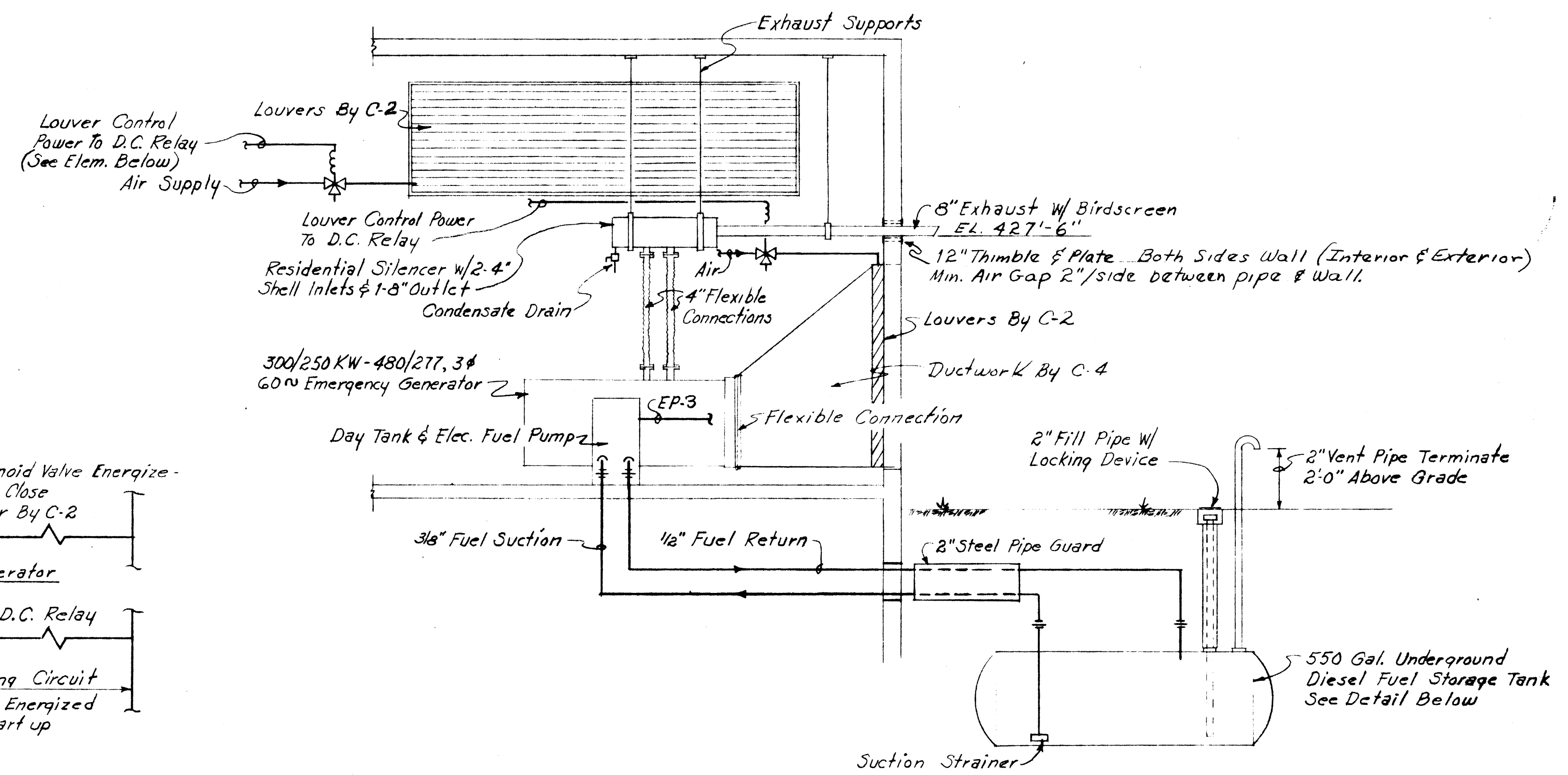
**PLAN-GENERATOR ROOM**  
Scale: 1/4"=1'-0"

**EMERGENCY CONTROL POWER PANEL (Influent Pump Station)**

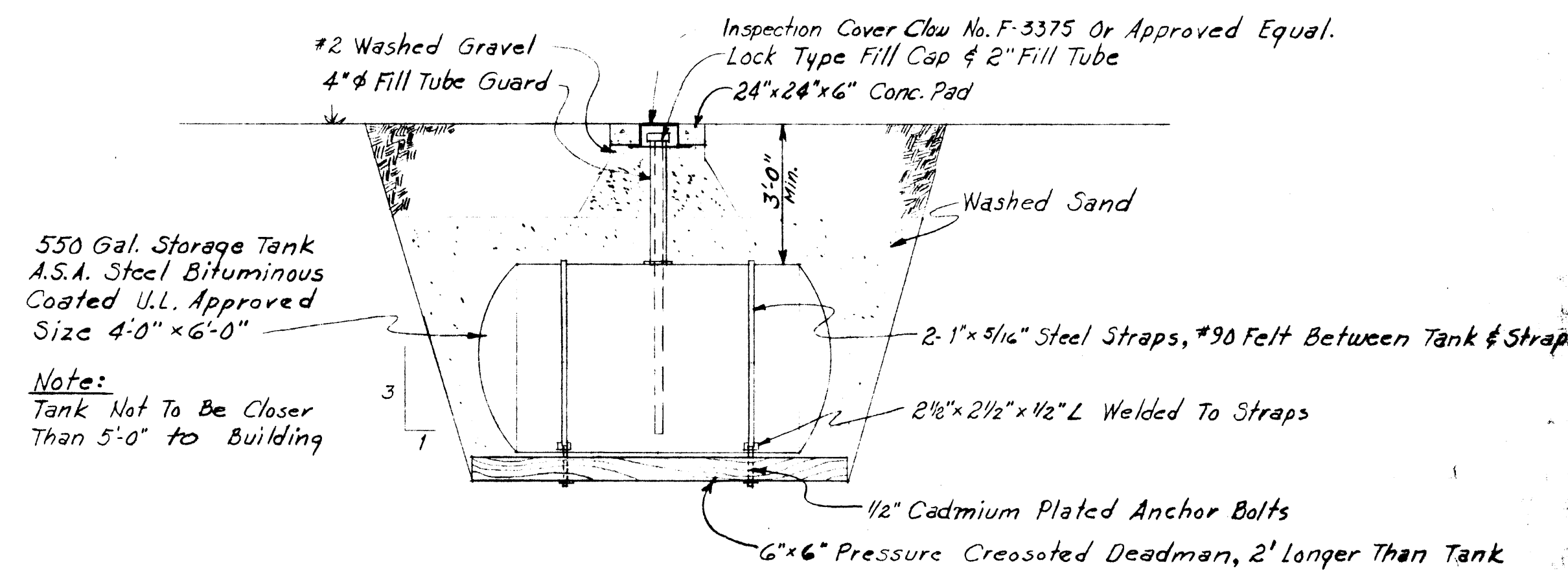
Circuit No.	Location	Number & Recep Type Fixture	Other Outlets	Total Watts	Remarks
EP-1	Control Room		Graphic Panel	1500	
EP-2	Screen Room		Flume Flow Transmitter	500	
EP-3	Generator Room		Generator Fuel Pump	200	
EP-4	Control Room			1500	Supplementary Power Supply for Graphic Panel
EP-5 to 12	spares			3700	Total Watts



**LOUVER CONTROL ELEMENTARY DIAGRAM**



**EMERGENCY GENERATOR SCHEMATIC DIAGRAM**  
Not To Scale



**FUEL STORAGE TANK DETAIL**  
Scale: 3/8"=1'-0"

AS BUILT

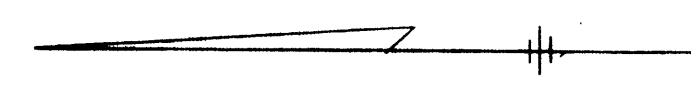
JF 331  
 MADE BY: WRA  
 CHECKED BY: JWK  
 DATE: 2/7/68  
 DATE: 2/22/68

IN CHARGE OF: JDM  
 DESIGNED BY: WRA  
 MADE BY: JWK  
 CHECKED BY: DLP

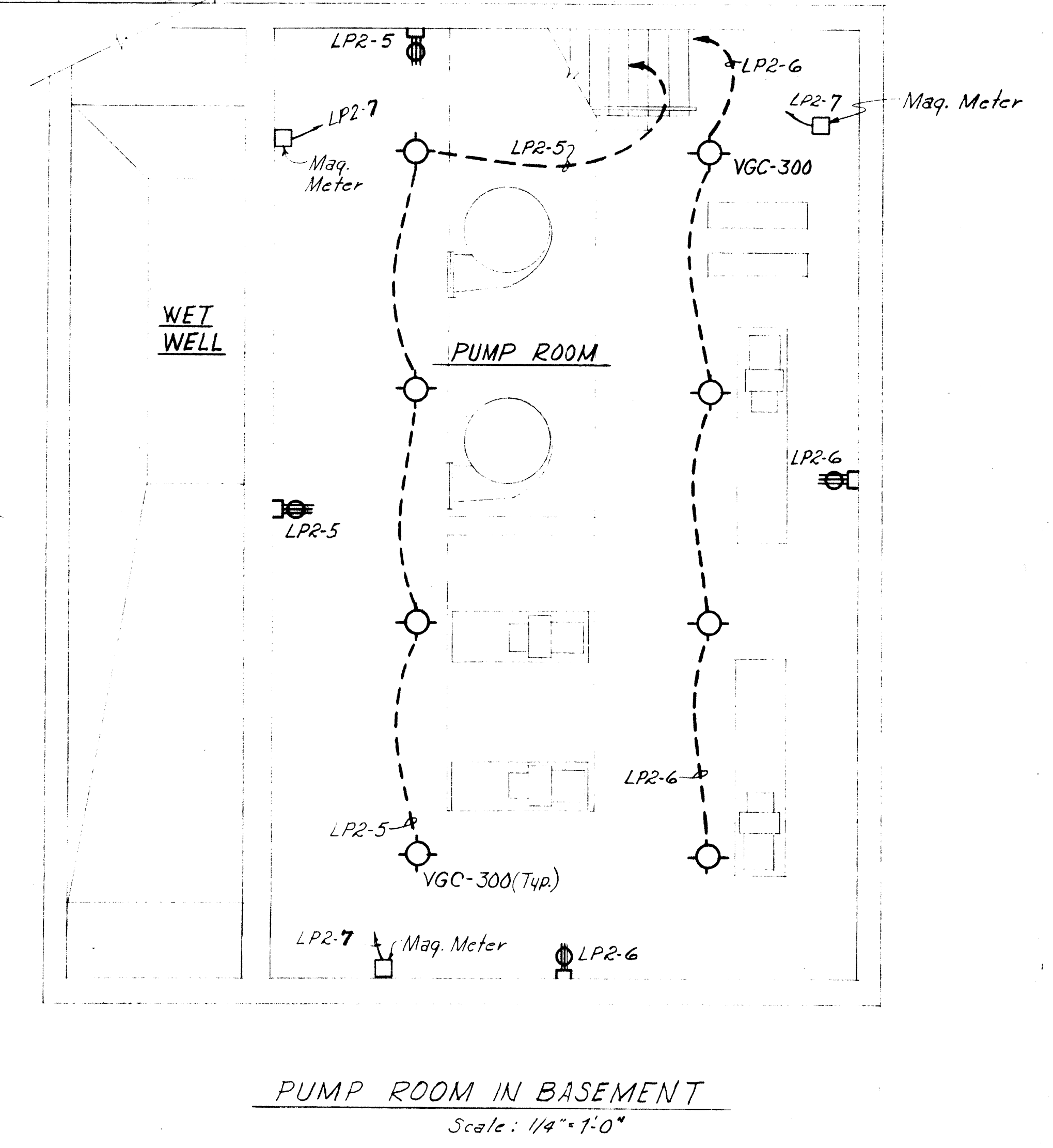
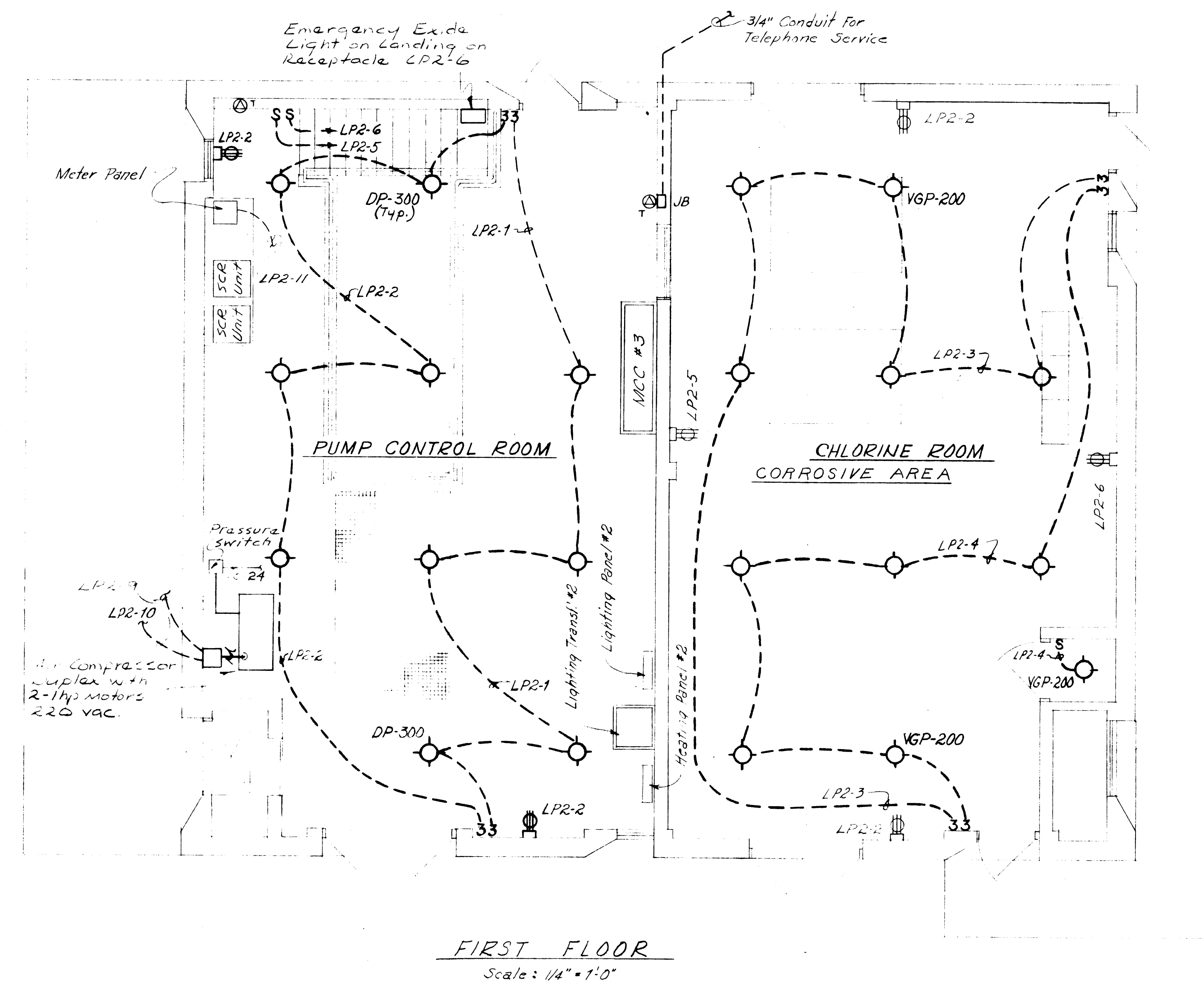
Principal Engineer N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		
<b>EMERGENCY GENERATOR</b>		
DATE: FEBRUARY 14, 1968	SCALE: AS SHOWN	
FILE NO.: 15.119-71F	REVISIONS	



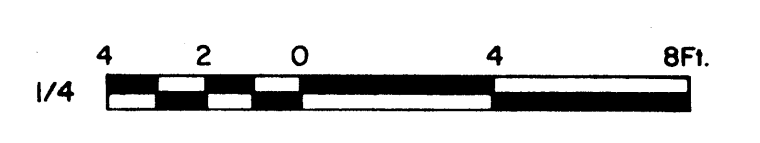


LIGHTING PANEL NO.2 (Sludge Pumping Station)						
Circuit No.	Location	Number & Type Fixture	Receptacles	Other Outlets	Total Watts	Remarks
LP2-1	Pump Control Room	5-DP300	1		1650	Fixtures 10'0" Mt'g Ht. Receptacles 3'0"
LP2-2	Pump Control Rm	5-DP300	3		1950	Mnt'g Ht. 10'0"
LP2-3	Chlorine Room	5-VGP200	1		1150	" " "
LP2-4	Chlorine Room	6-VGP200			1200	" " "
LP2-5	Pump Room	4-VGC300	3		1650	" " "
LP2-6	Pump Room	4-VGC300	3		1650	" " "
LP2-7	Pump Room			Mag. Meters	1500	Instrumentation Power Supplies
LP2-11	Pump Room			Meter Panel	1500	
LP2-8	Scum Pump Rms	1-VGP100 Each Room	4	2-1/3 HP Sump Pumps	1900	
LP2-9 & LP2-10	Pump Control Room			2-1/3 HP Air Comp.	1000	Air Comp. & Air Dryer #3
					1000	Air Comp. & Air Dryer #4
LP2-12	Scum Pump Room Set Tank #1			Conv. Heater	2000	2-Pole Breaker 208v, 1Ø
LP2-13	Scum Pump Room Set Tank #2			Conv. Heater	2000	2-Pole Breaker 208v, 1Ø
LP2-14	Backflow			Sump Pump	865	1/3 H.P.
LP2-15	Preventer Pit			Strip Heater	2000	2-Pole Breaker 208v, 1Ø
LP2-16	Pump Room	Sump Pump				
LP2-17-22	SPARES				Total Watts	23,915



JF 331  
 JMB 7/2/72  
 JMB 7/2/72  
 WJP 7/2/72

IN CHARGE OF: JDM  
 DESIGNED BY: JWK, WRA  
 MADE BY: JWK  
 CHECKED BY: RGF



Principal Engineer  
 N.Y.S.P.E. LIC. NO. 39764

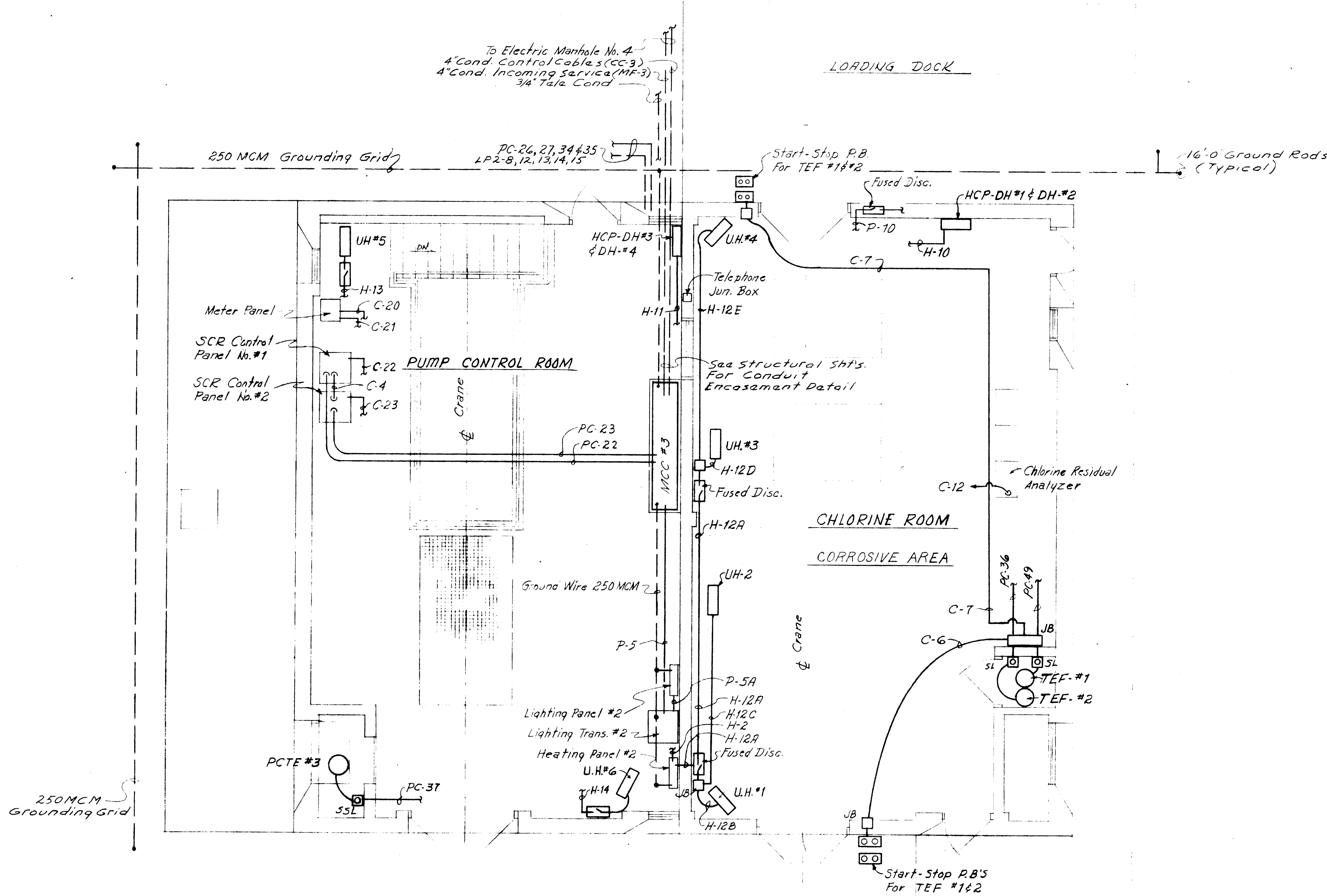
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT

TREATMENT PLANT  
**SLUDGE PUMP STATION**  
LIGHTING

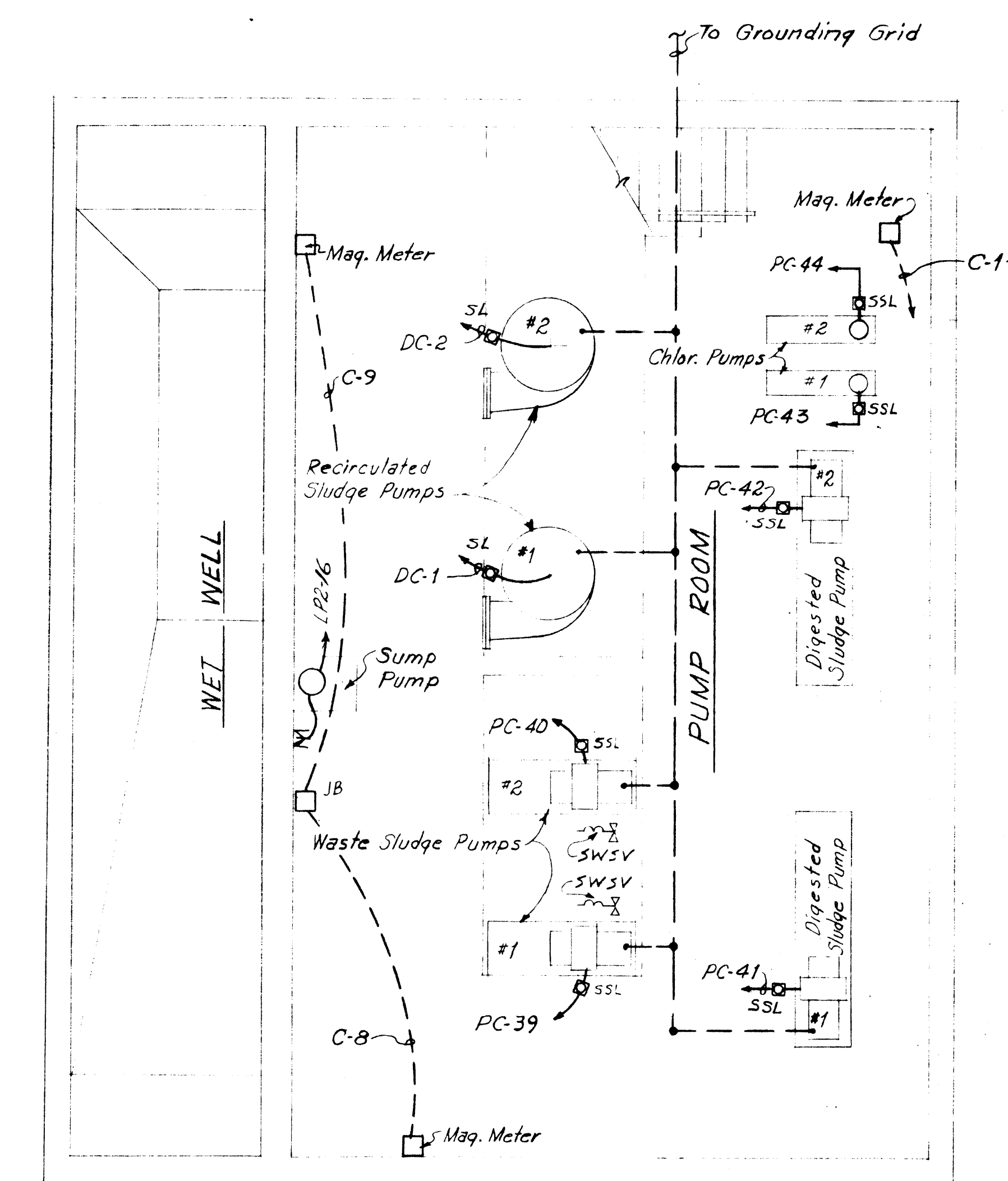
O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
SYRACUSE, NEW YORK

DATE: FEBRUARY 14, 1968  
SCALE: 1/4" = 1'-0"  
FILE NO.: 11319-14F

E-14



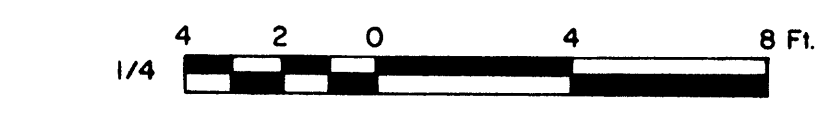
**CONTROL ROOM & CHLORINE ROOM PLAN**  
Scale: 1/4" = 1'-0"



**PUMP ROOM & WET WELL PLAN**  
Scale: 1/4" = 1'-0"

JF 331  
JMB 7/7/72  
JMB 7/7/72  
WJP 3/7/72

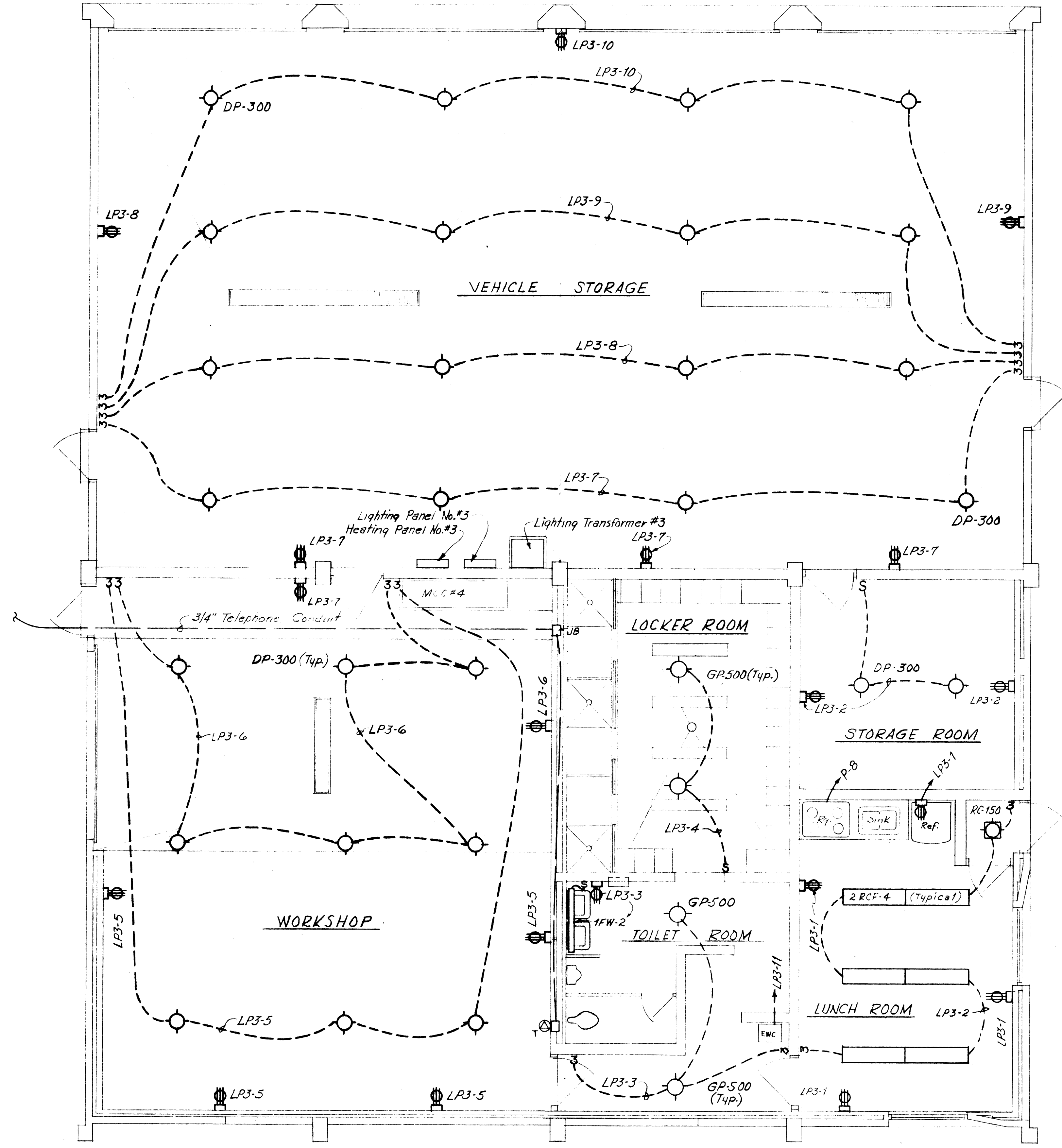
IN CHARGE OF: JDM  
DESIGNED BY: RGF  
MADE BY: JWK  
CHECKED BY: DLP



*James M. W.*  
PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK—LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT <b>SLUDGE PUMP STATION          POWER PLAN</b>		
<b>O'BRIEN &amp; GERE</b> CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK		
DATE: FEBRUARY 14, 1968 SCALE: 1/4" = 1'-0" FILE NO.: 15,149-18F	REVISIONS 1A 7/7/72 2A 7/7/72	<b>E-15</b>





**LIGHTING PANEL NO. 3 (Garage)**

Circuit No.	Location	Number & Type Fixture	Recep. Toggles	Other Outlets	Total Watts	Remarks
LP3-1	Lunch Room		4		1100	1 Recep. for Refridg. (1/4HP)
LP3-2	Lunch Room & Storage Room	1-RC 150 6-RCF-4 2-DP300	2		1530	
LP3-3	Toilet	2-GP500 2-1FW2	1		1190	
LP3-4	Locker Room	2-GP500			1000	
LP3-5	Workshop	3-DP300	4		1500	
LP3-6	Workshop	6-DP300	1		1950	
LP3-7	Vehicle Stor.	4-DP300	4		1800	
LP3-8	Vehicle stor.	4-DP300	1		1350	
LP3-9	Vehicle stor.	4-DP300	1		1350	
LP3-10	Vehicle stor.	4-DP-300	1		1350	
LP3-11	Toilet Room			EWC	900	Elac. Water Cooler
LP3-12	Vehicle Stor.			PPE #1 1/3HP	1100	See Elementary Diagram Sh. No. E8 for Damp Control
LP3-13	Locker Room			PPE #2 PPE #3	200	Motor Starting Sw. Req.
LP3-14 LP3-15	Workshop			Hot Water Heater	9000	A, 208V, 2 Pole Breaker
LP3-16	Storage			Duct Fan	700	Motor Starting Sw. Req'd.
LP3-17/18	Sparas				26,020	Total Watts

**LIGHTING PANEL NO. 4 (In Garage Motor Control Center No. 4)**

Circuit No.	Location	Number & Type Fixture	Recep. Toggles	Other Outlets	Total Watts	Remarks
P-7	Vehicle Stor.			RC Unit #2	7600	2 Pole, 50 Amp Breaker
P-8	Lunch Room			Elac. Range	7000	2 Pole, 40 Amp Breaker
					14,600	Total Watts

**LIGHTING PANELBOARD & TRANSFORMER SCHEDULE**

Panel Number	Number of Circuits	Transformer No. & Size	Location
LP-1	36 LP1-1 to LP1-29 Present LP1-30 to LP1-34 Spars	Transformer No. 1 45kVA, 480/208-120V	Sludge Pump Station Mechanical Room
LP-2	22 LP2-1 to LP2-12 Present LP2-13 to LP2-18 Spars	Transformer No. 2 30kVA, 480/208-120V	Sludge Pump Station Pump Control Room
LP-3	18 LP3-1 to LP3-16 Present LP3-17 & LP3-18 Spars	Transformer No. 3 30kVA, 480/208-120V	Garage Vehicle Storage
LP-4	8 PT & PS Present Four Spars	Transformer No. 4 15kVA, 480/240-120V	Garage Motor Control Center #4
EP	8 EP-1 to EP-8	Transformer No. 5 9kVA, 480/208-120V	Influent Pump Station Motor Control Center #1
LP-5	8	Transformer No. 6 9kVA, 480/208-120V	Aeration Control Room

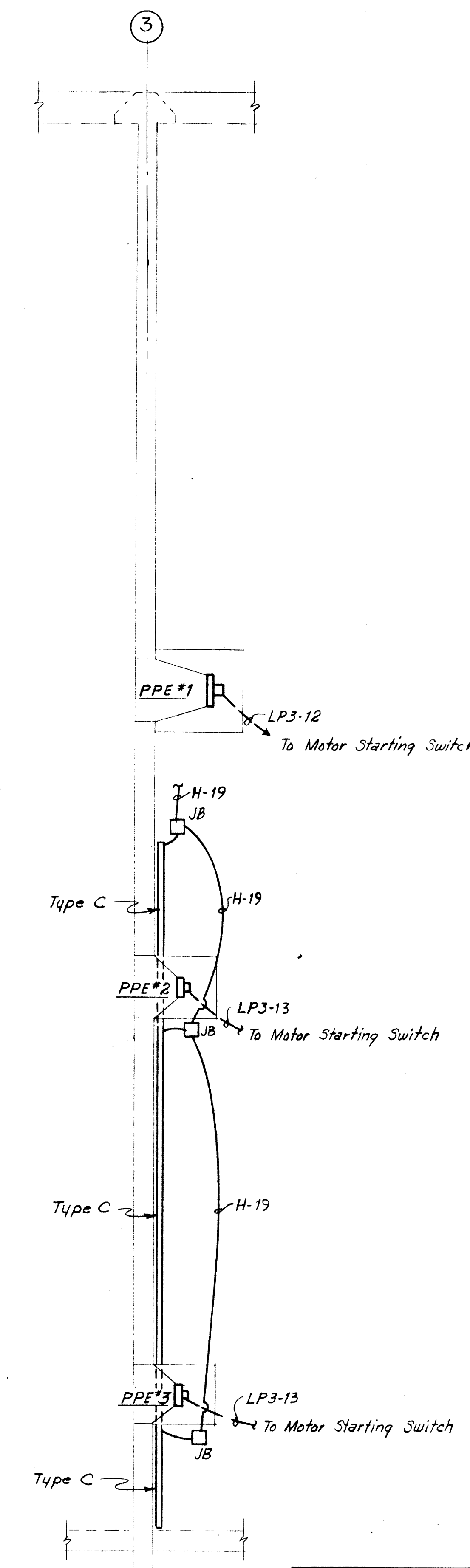
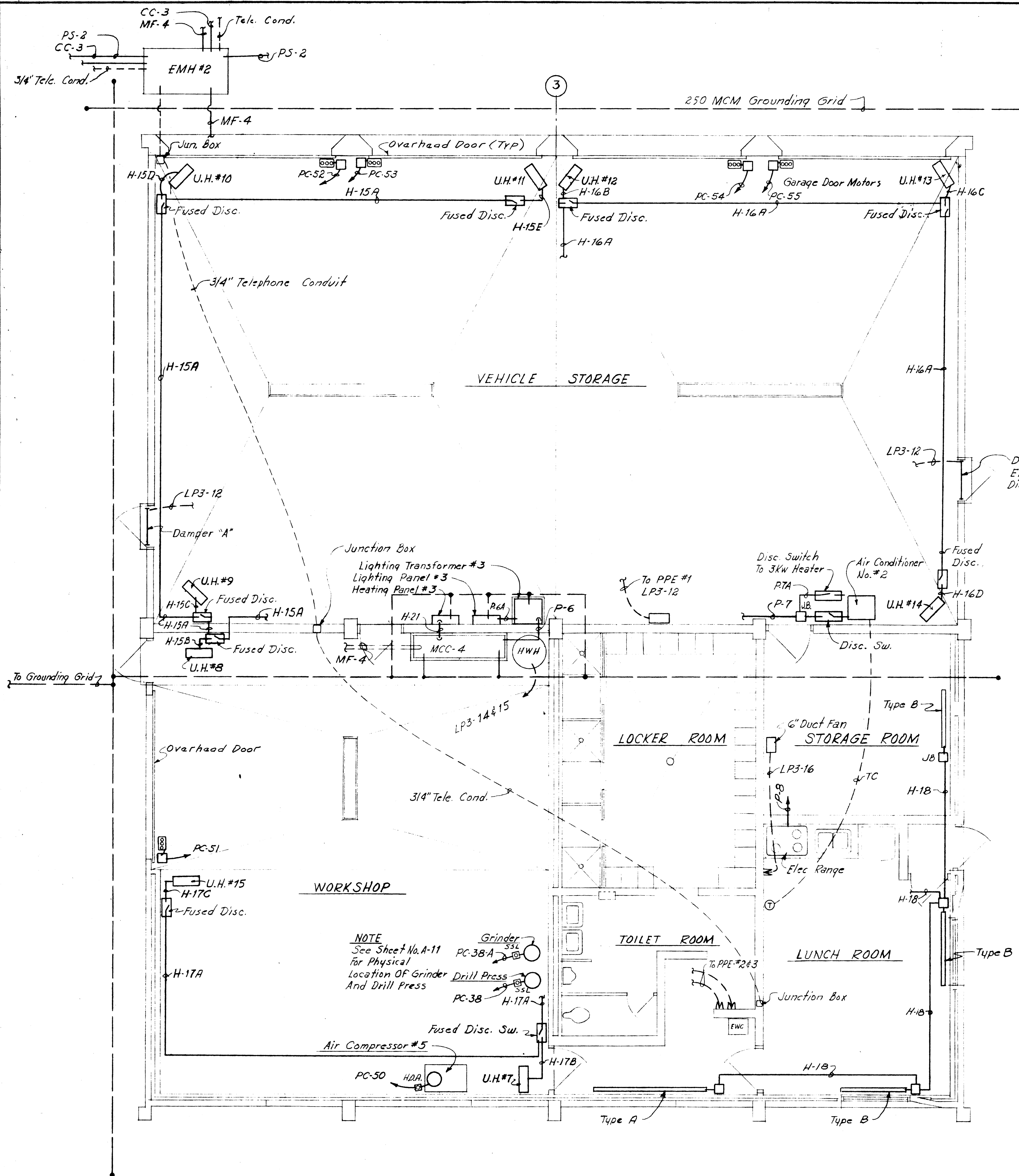
J.F. 331  
 J.M.B. 2/17/68  
 J.M.B. 2/17/68  
 J.M.B. 2/17/68  
 J.M.B. 2/17/68  
 IN CHARGE OF: JDM  
 DESIGNED BY: JWK, WRA  
 MADE BY: JWK  
 CHECKED BY: RGF

**AS BUILT**  
*James A. G. Van...*  
 PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

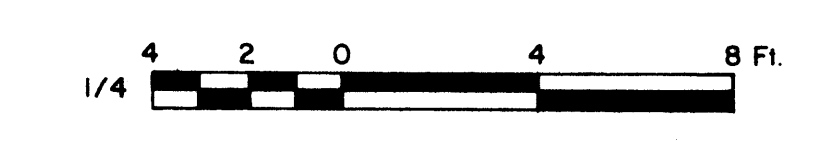
ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF DRAINAGE AND SANITATION  
 MEADOWBROOK—LIMESTONE TREATMENT PLANT DISTRICT  
**TREATMENT PLANT**  
**GARAGE LIGHTING**

**O'BRIEN & GERE**  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 SYRACUSE, NEW YORK  
 DATE: FEBRUARY 14, 1968  
 SCALE: 1/4" = 1'-0"  
 FILE NO.: 15,119-13F

E16



AS BUILT



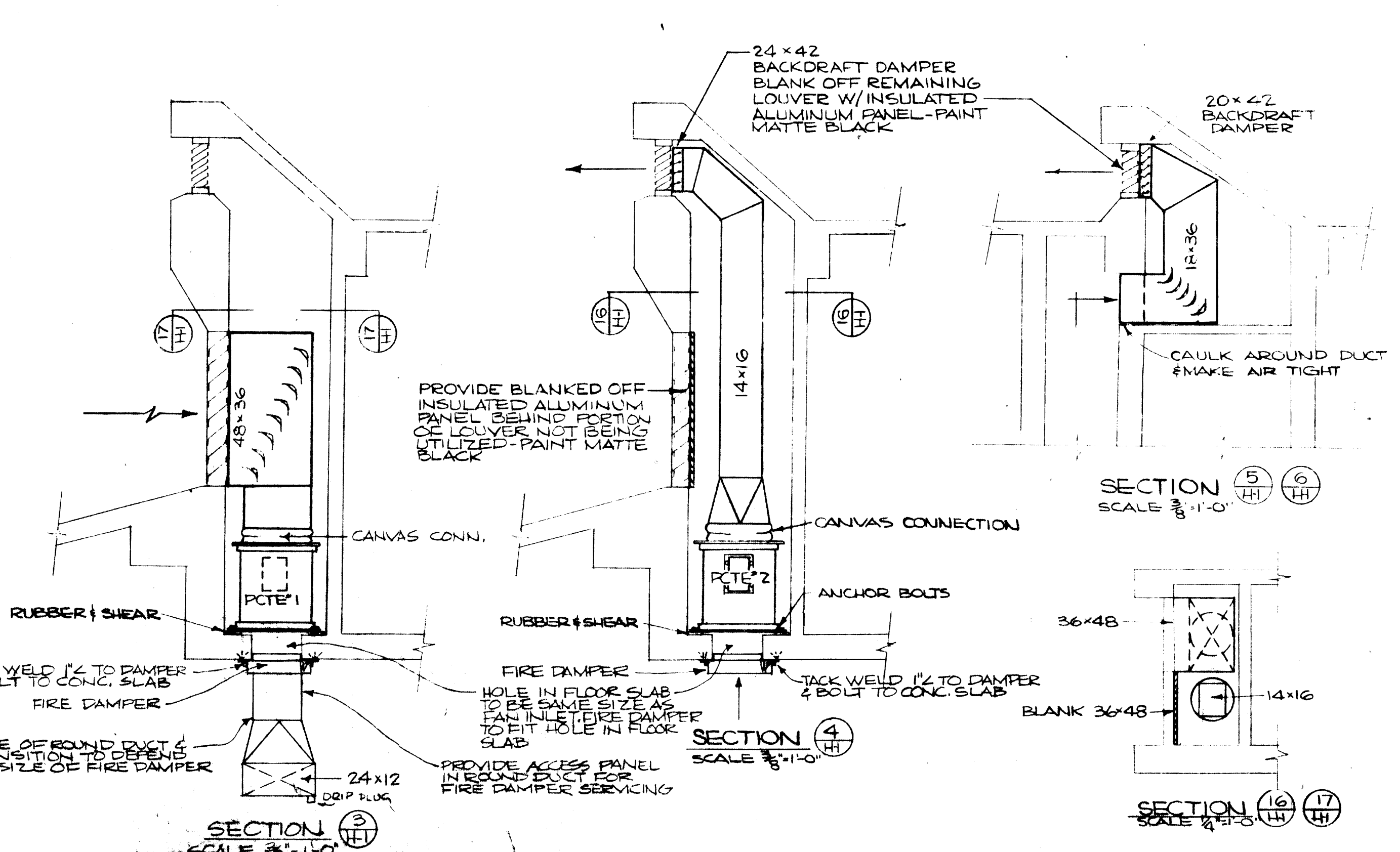
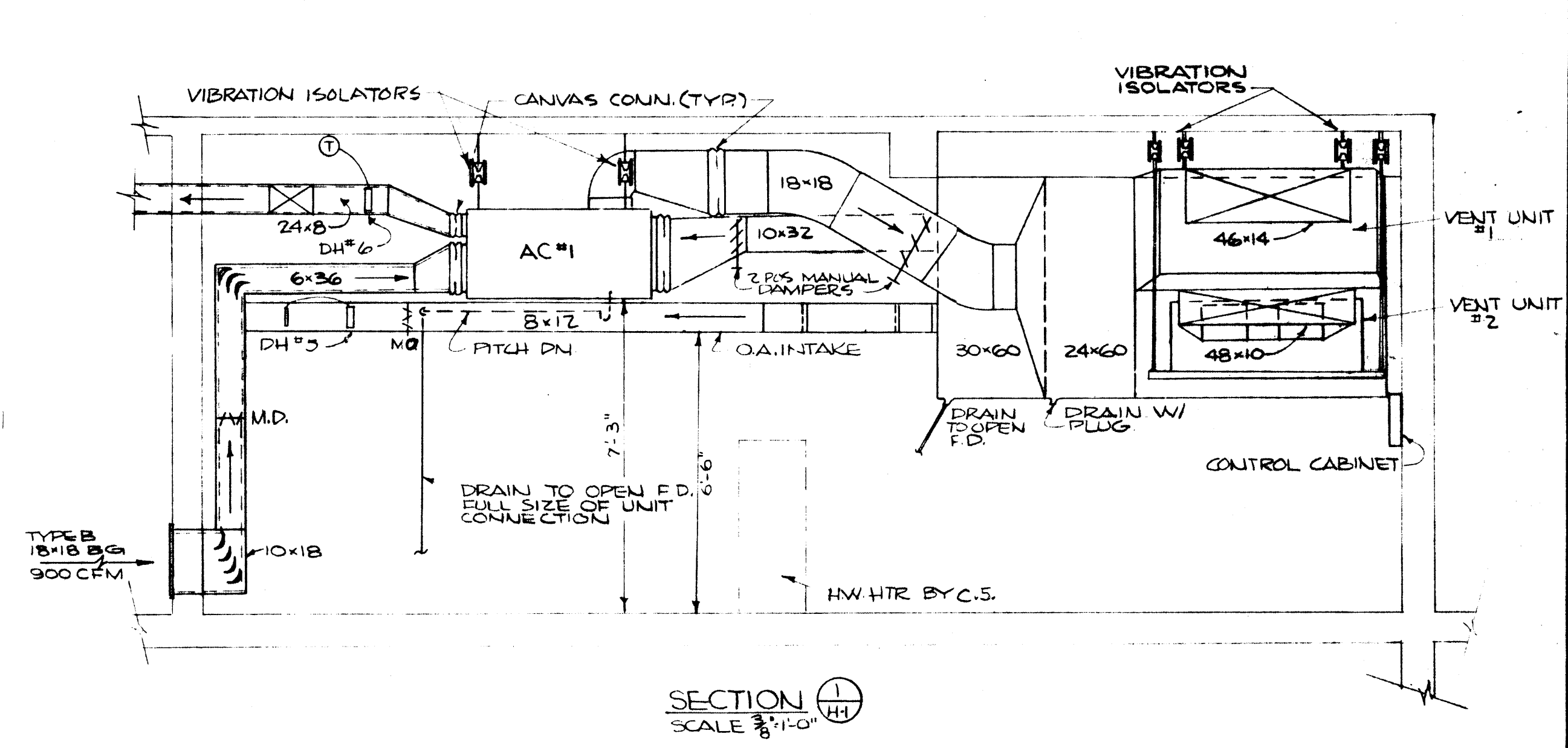
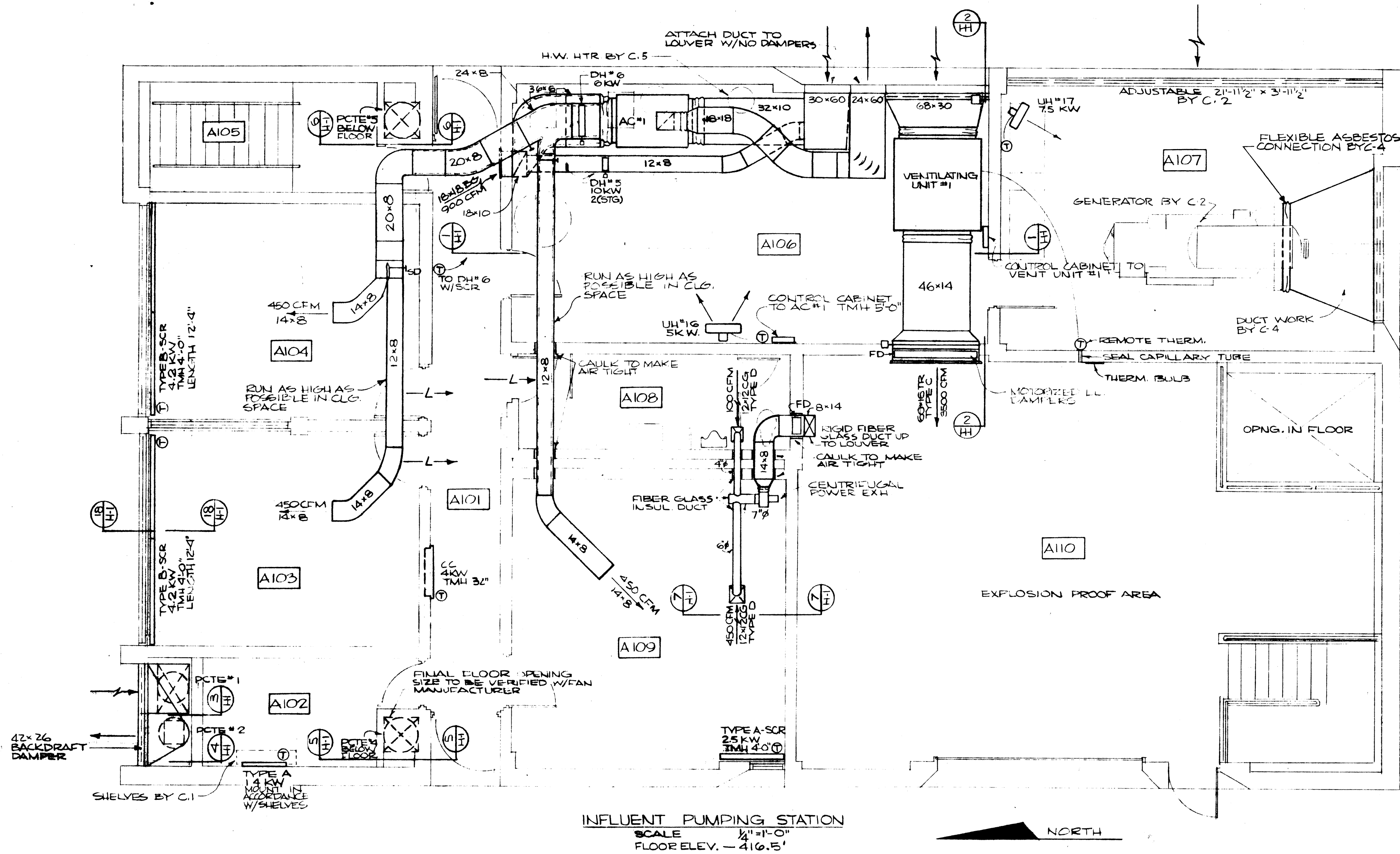
IN CHARGE OF: JDM  
DESIGNED BY: RGF  
MADE BY: JWK  
CHECKED BY: DLP

JF 331  
JmB 2/17/66  
JmB 2/17/66  
JmB 2/17/66

James A. G. [Signature]  
PRINCIPAL ENGINEER N.Y.S.P.E. LIC. NO. 39764

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK—LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		
<b>GARAGE POWER PLAN</b>		
O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS STRAUSS BUILDING NEW YORK		DATE: FEBRUARY 14, 1966 SCALE: 1/4" = 1'-0" FILE NO. 153W-19F
7/7/72 1/6/71/69 REVISIONS		

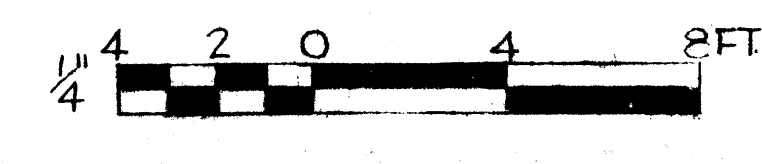




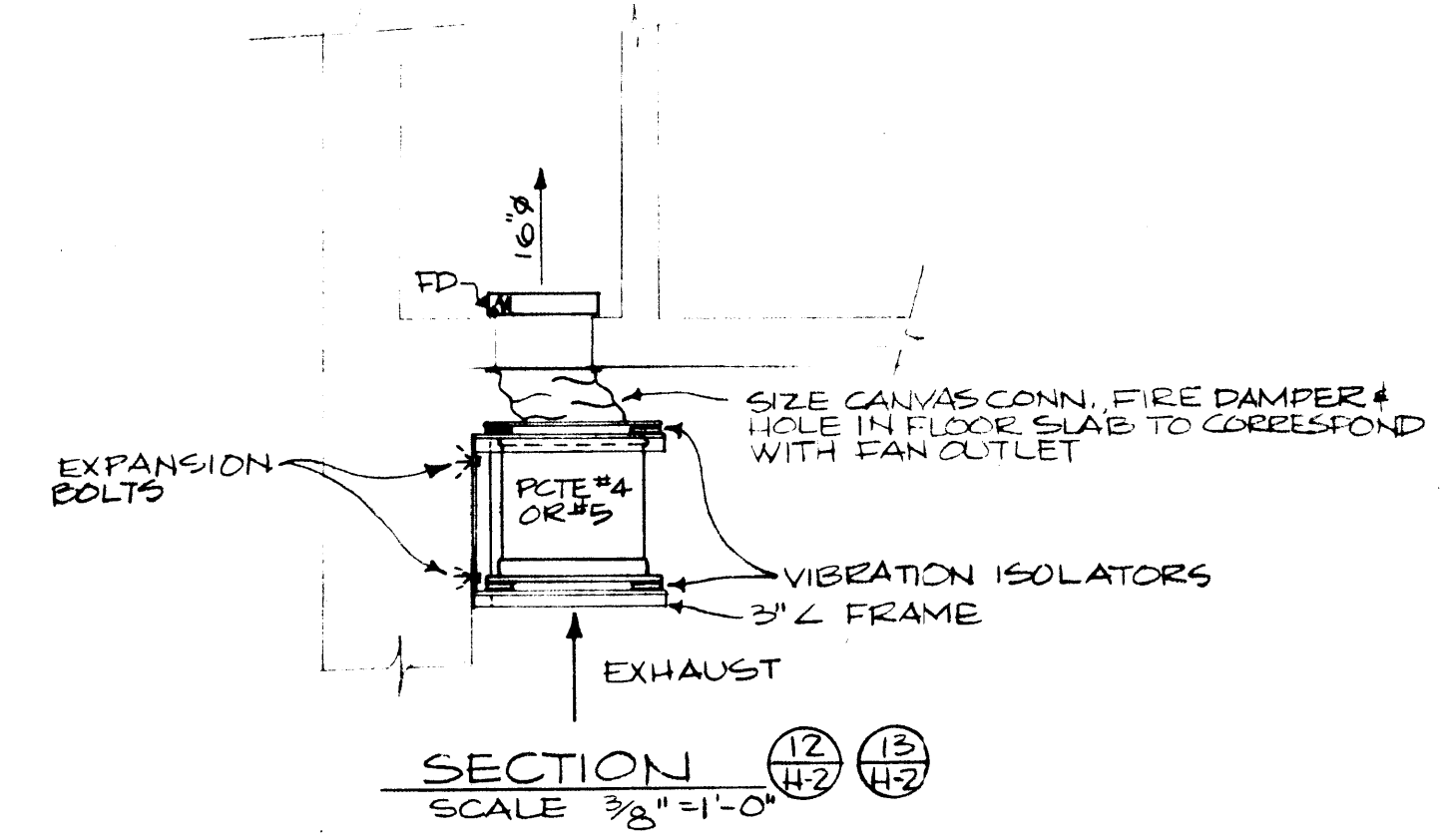
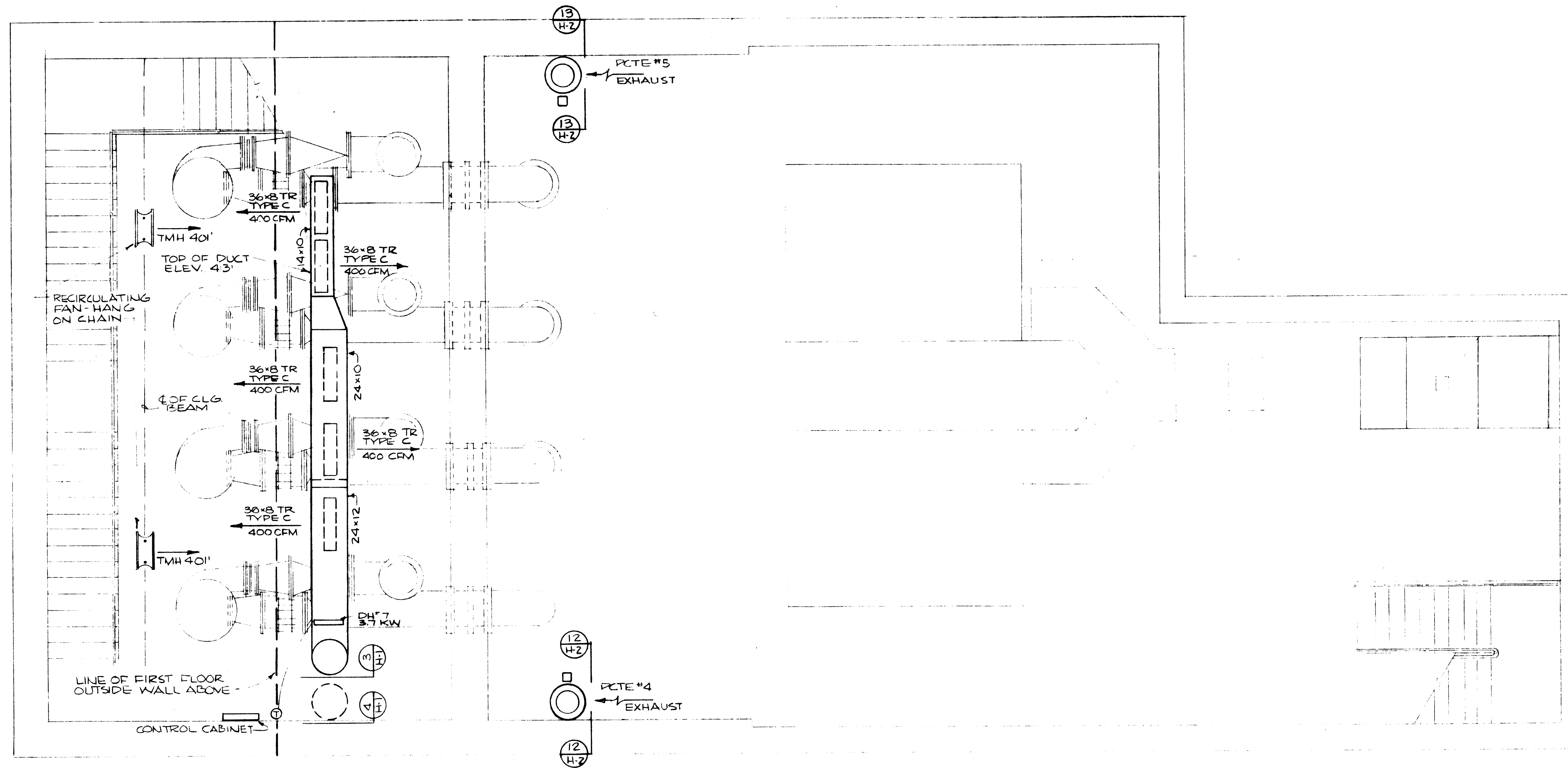
AS BUILT

IN CHARGE OF: DF  
DESIGNED BY: RC  
MADE BY: DD  
CHECKED BY: DF

DATE: 7/27/72  
SCALE: AS NOTED



	ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT <b>INFLUENT PUMP STATION</b> <b>FIRST FLOOR</b>		
	O'BRIEN & GERE CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, N.Y.	DATE: FEBRUARY 14, 1968 SCALE: AS NOTED FILE NO.: 15349-37F	



BASEMENT-INFLUENT PUMP STATION  
SCALE 1/4"=1'-0"



HEATING & VENTILATING SYMBOLS & ABBREVIATIONS

	DUCT TRANSITION
	ROUND TO RECTANGULAR DUCT
	SQUARE VANED ELBOW
	FULL RADIUS ELBOW
	RETURN DUCT (SECTION)
	SUPPLY DUCT (SECTION)
	SILL RADIATION
	THERMOSTAT
	LOUVER IN DOOR
	CENTRIFUGAL POWER EXHAUST
	POWER PROPELLOR EXHAUST
	POWER CENTRIFUGAL TUBULAR EXHAUST
	SILICONE CONTROL RECTIFIER
	CABINET CONVECTOR
	DUCT HEATER
	UNIT HEATER
	AIR CONDITIONING UNIT
	SPLITTER DAMPER
	MOTOR DAMPER
	FIRE DAMPER
	LOW LEAKAGE DAMPER
	PUSH BUTTON
	CEILING GRILLE
	BOTTOM GRILLE
	ADJUSTABLE TAKE OFF VANE
	MOUNTING HEIGHT (TO TOP)
	STATIC PRESSURE
	MOUNTING HEIGHT (TO BOTTOM)

AS BUILT

ELECTRIC UNIT HEATERS

UNIT NO	KW	CFM	M.H.	H.P.	LOCATION
*1UH	5	320	8'	1/85	CHLORINE STORAGE
*2UH	5	320	8'	1/85	
*3UH	5	320	8'	1/85	
*4UH	5	320	8'	1/85	
*5UH	5	320	8'	1/85	CHLORINE FEED
*6UH	10	750	8'	1/33	
*7UH	10	750	8'	1/33	WORK RM. OF GARAGE
*8UH	5	320	8'	1/85	
*9UH	5	320	8'	1/85	VEHICLE STORAGE
*10UH	10	750	8'	1/33	
*11UH	5	320	8'	1/85	
*12UH	5	320	8'	1/85	
*13UH	10	750	8'	1/33	
*14UH	5	320	8'	1/85	
*15UH	10	750	8'	1/33	
*16UH	5	320	8'	1/85	MECHANICAL ROOM
*17UH	7.5	425	8'	1/33	GENERATING ROOM

NOTE: ALL UNITS 480V-3φ

DUCT HEATERS

UNIT NO	KW	MIN. CFM	SIZE	TYPE	NO OF CONTROL ELEMENTS	LOCATION
DH#1	10	400	16x17	STEP	6	CHLORINE RM.
DH#2	10	400	16x17			
DH#3	20	800	16x29			PUMP CONTROL ROOM
DH#4	20	800	16x29			
DH#5	10	400	16x17			MECHANICAL RM.
DH#6	6	270	16x13	SCR		
DH#7	3.7	200	16x17	3 STEP 33 STEP THEM	3	STORAGE

NOTE: ALL UNITS 277-1φ

VENTILATING UNITS

UNIT NO	CFM	KW	H.P.	SP	RPM	N° OF ELEMENTS
V#1	3500	7.2	1	3/8"	760	18
V#2	3500		3/4	1/2"	100	

NOTE: ALL UNITS 480V-3φ

POWER CENTRIFUGAL TUBULAR EXHAUST FANS

UNIT NO	CFM	H.P.	S.P.	LOCATION	SPECIAL
PCTE#1	2000	3/4	3/8"	PUMP ROOM	EXPLOSION PROOF
PCTE#2	2000	1/2	1/2"		
PCTE#3	2000	3/4	1"	CHLORINE FEED	
PCTE#4	3600	1 1/2	3/4"	GRIT REMOVAL	EXPLOSION PROOF
PCTE#5	3600	1 1/2	3/4"		

NOTE: ALL UNITS 480V-3φ

POWER PROPELLOR EXHAUST

UNIT NO	CFM	SPEED	S.P.	H.P.	RDM	DRIVE	NAME
PP#1	1800	2	3/8"	1/3	1725-4440	DIRECT	PLG PD163
PP#2	400	1	1/8"	1/80	1550		PLG PD103
PP#3	400	1	1/8"	1/80	1550		PLG PD103

NOTE: ALL UNITS 120V-1φ

TUBE AXIAL EXHAUST FANS

UNIT NO	CFM	H.P.	SP	LOCATION	SPECIAL
TEF#1	1000	1/2	3/4"	CHLORINE STOR.	CORROSION PROOF
TEF#2	9000	4	3/4"		

NOTE: ALL UNITS 480V-3φ

IN CHARGE OF: DF  
DESIGNED BY: RC  
MADE BY: DD  
CHECKED BY: DF

JF 331  
JMB 7/7/52  
JMB 7/7/52  
WJP 7/2/52



MACKNIGHT KIRRMISE-FRENCH & SIZING  
CONSULTING ARCHITECTS  
4448 BRUNOL ROAD, SPRINGFIELD, N.Y. 13304

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT

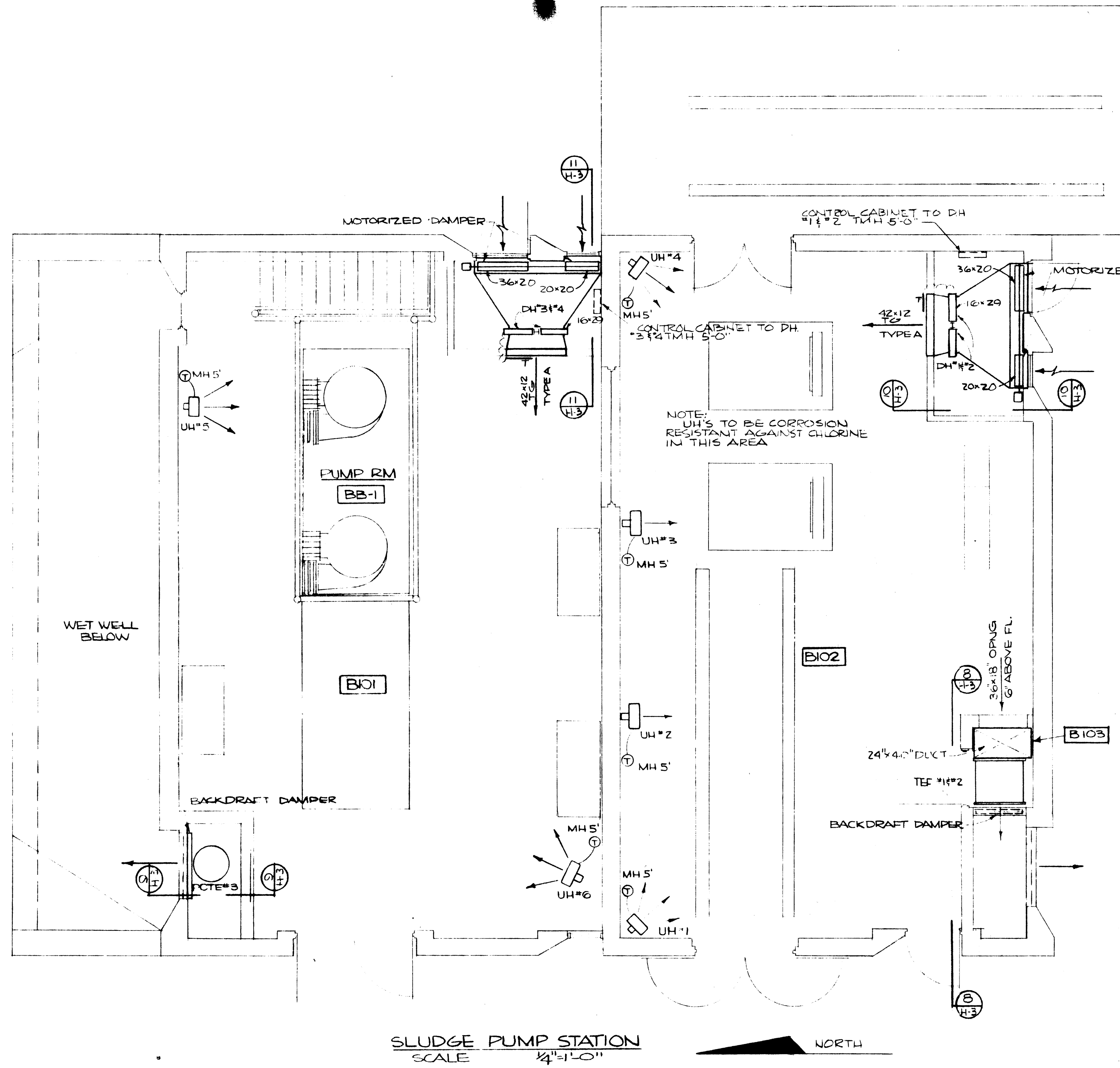
TREATMENT PLANT  
**INFLUENT PUMP STATION  
BASEMENT**

O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
STRAUSS BUILDING  
100 N. STATE ST.  
SARASOTA, FLA.

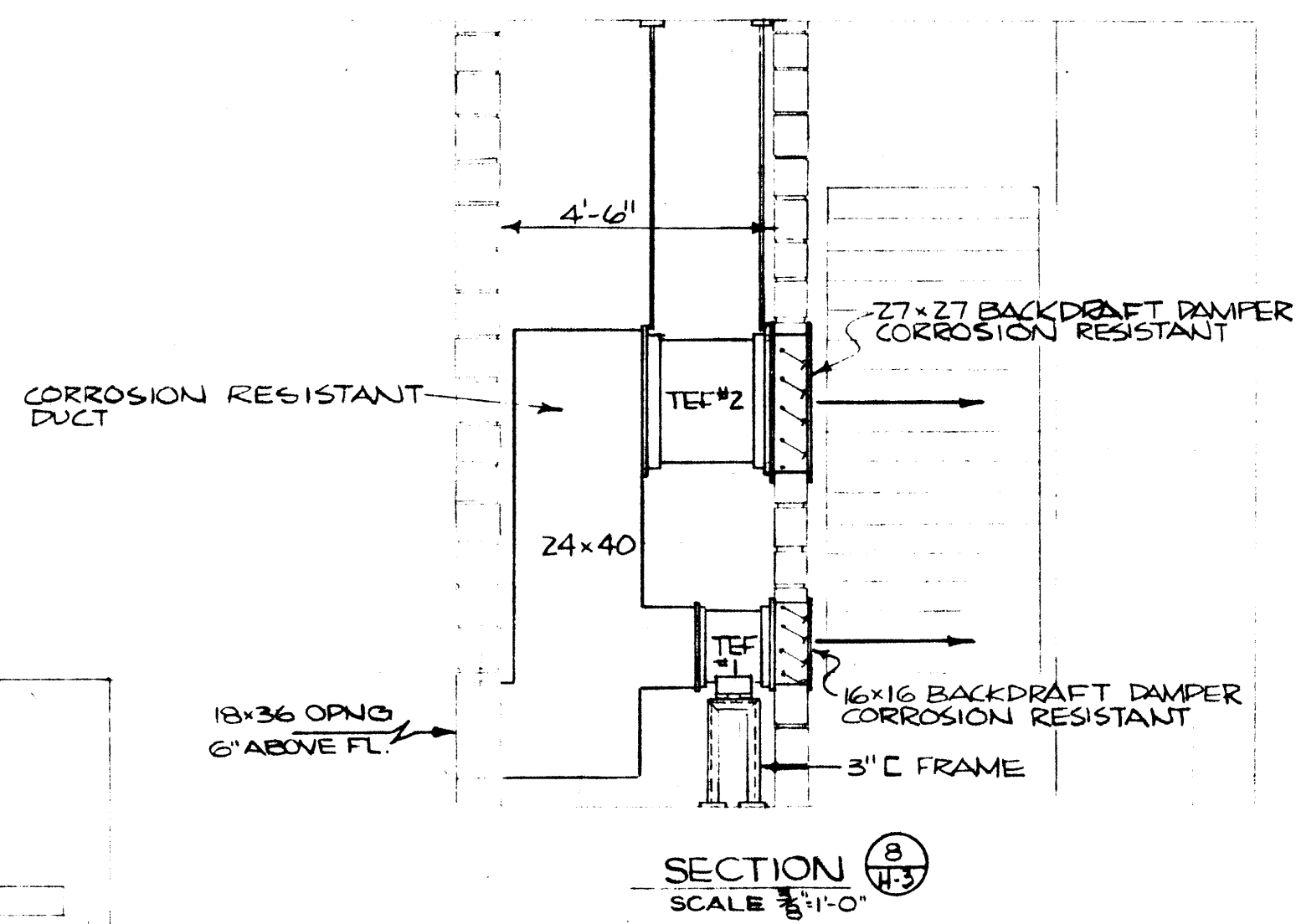
DATE: FEBRUAR 14, 1968  
SCALE: AS NOTED  
FILE NO.: 115,149-38F

Professional Engineer  
State of New York  
No. 115,149

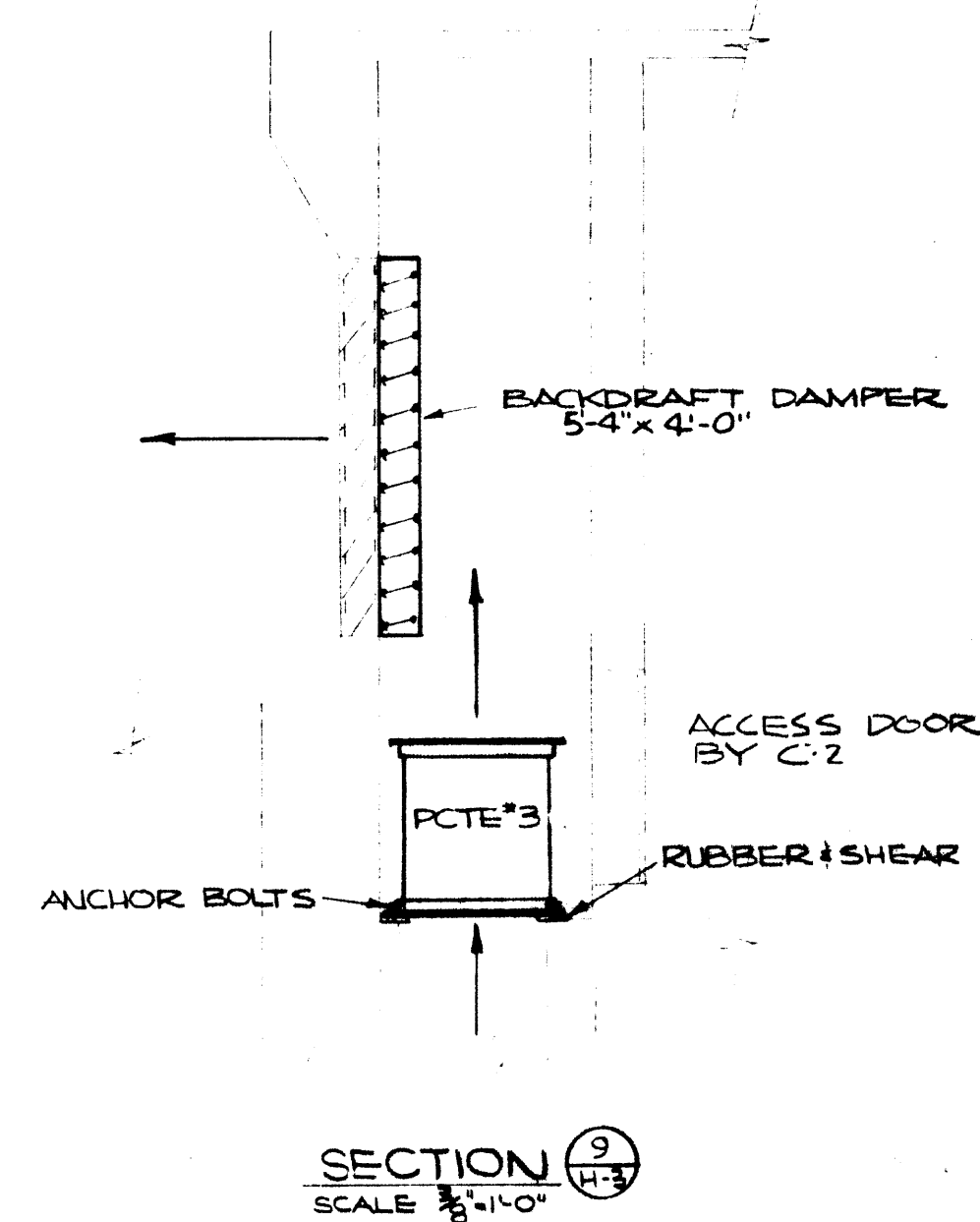




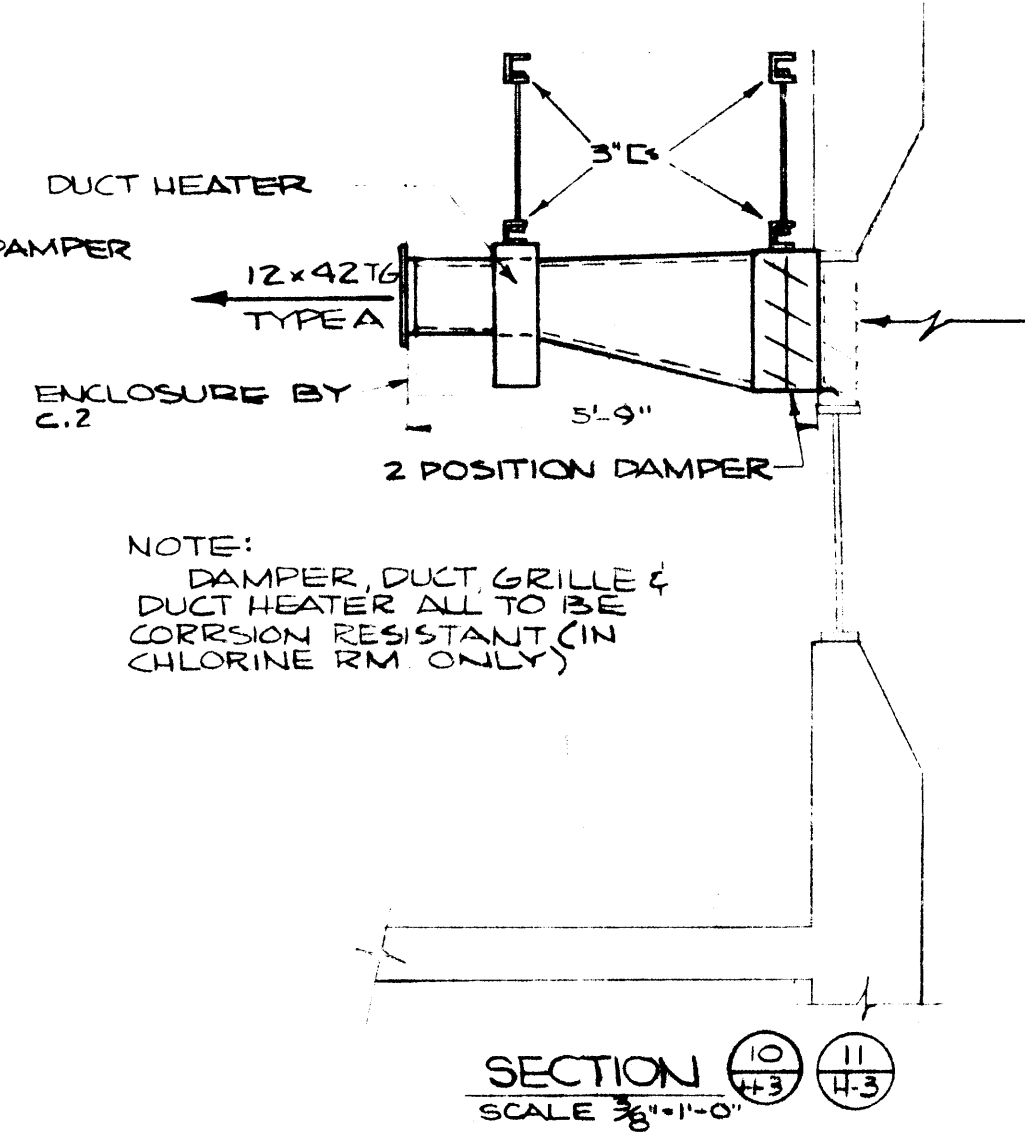
SLUDGE PUMP STATION  
SCALE 1/4" = 1'-0"



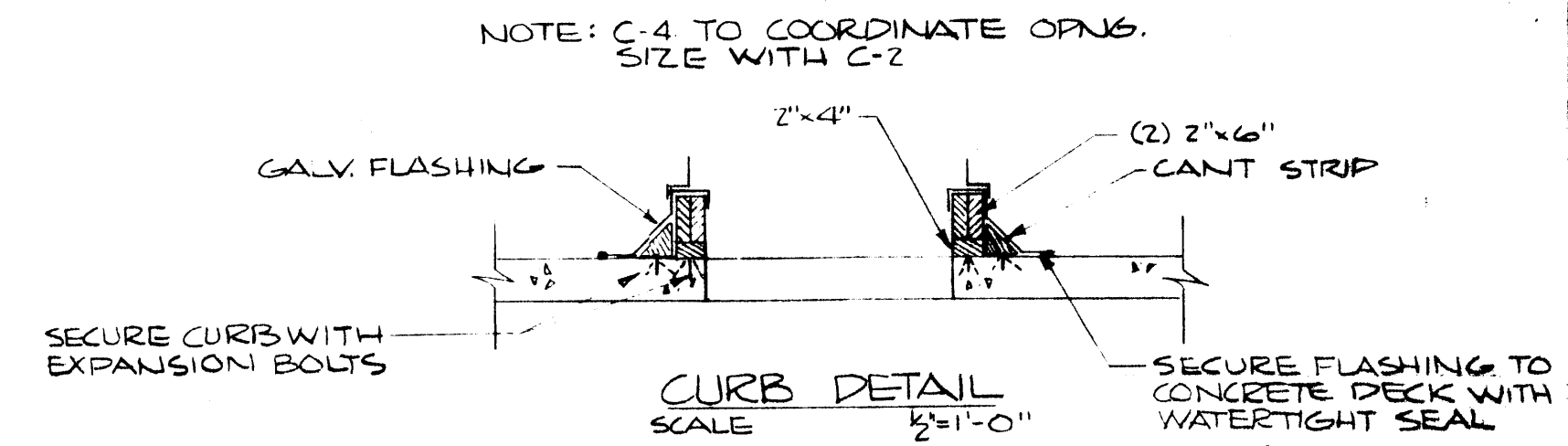
SECTION 8  
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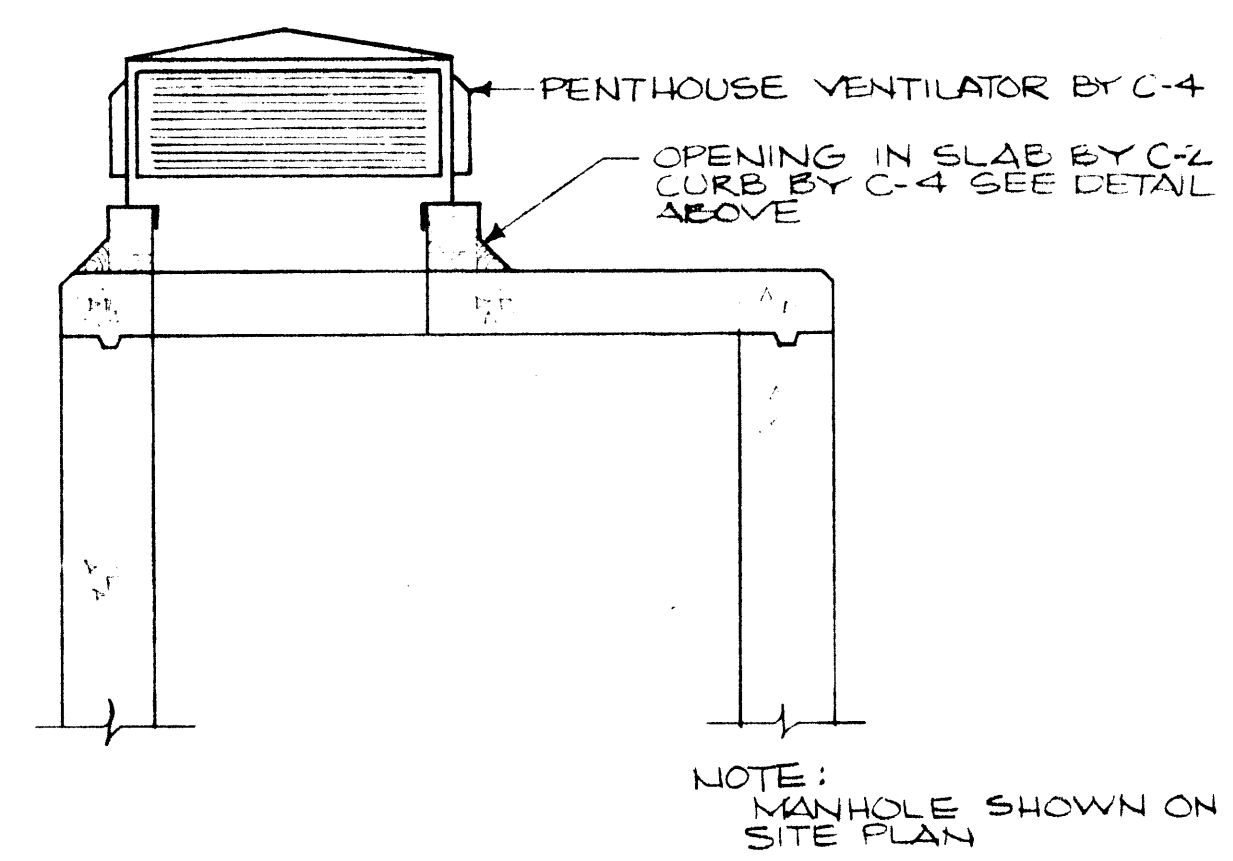
SECTION 9  
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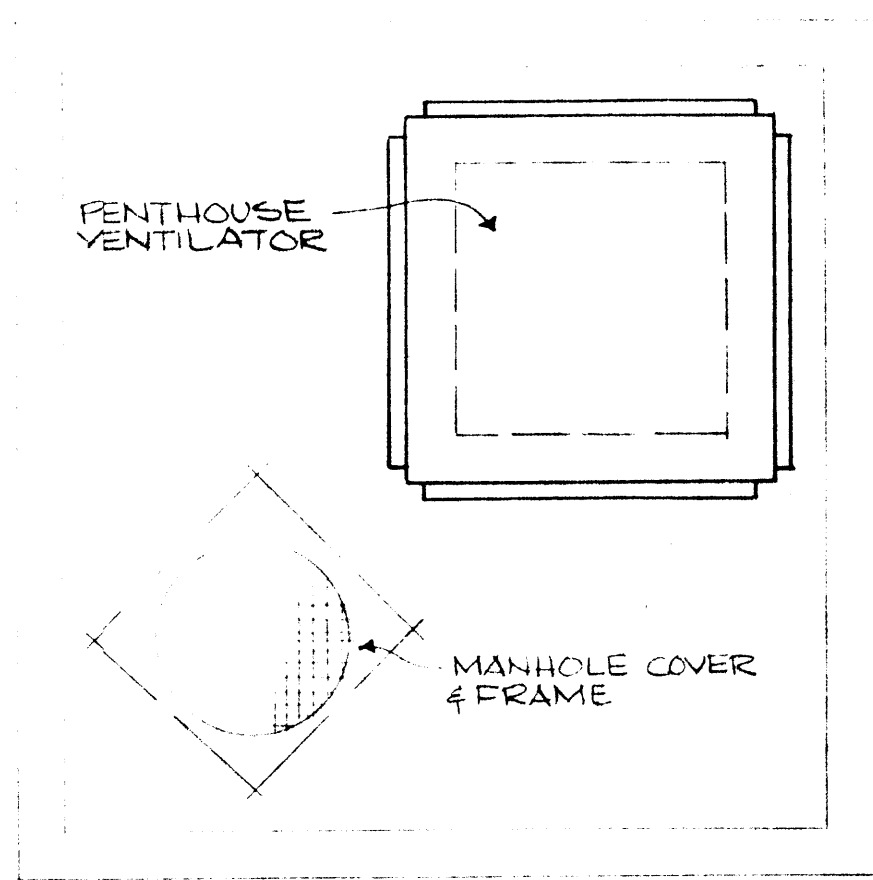
SECTION 10  
SCALE 3/8" = 1'-0"



CURB DETAIL  
SCALE 1/2" = 1'-0"



OVERFLOW MANHOLE (INFLUENT SEWER) ELEV & PLAN  
SCALE 1/2" = 1'-0"



AS BUILT

331  
244  
277  
277

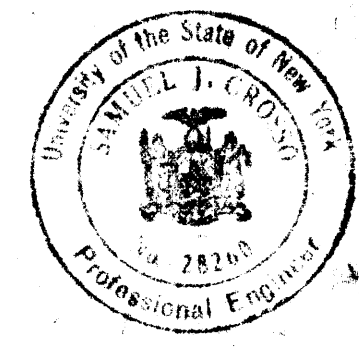
IN CHARGE OF: DF  
DESIGNED BY: RC  
MADE BY: DD  
CHECKED BY: DF



MACNIGHT - KIRKMOSE - FRENCH & SIEGEL  
CONSULTING ARCHITECTS  
6645 MIDLAND ROAD, SYRACUSE, N.Y. 13204

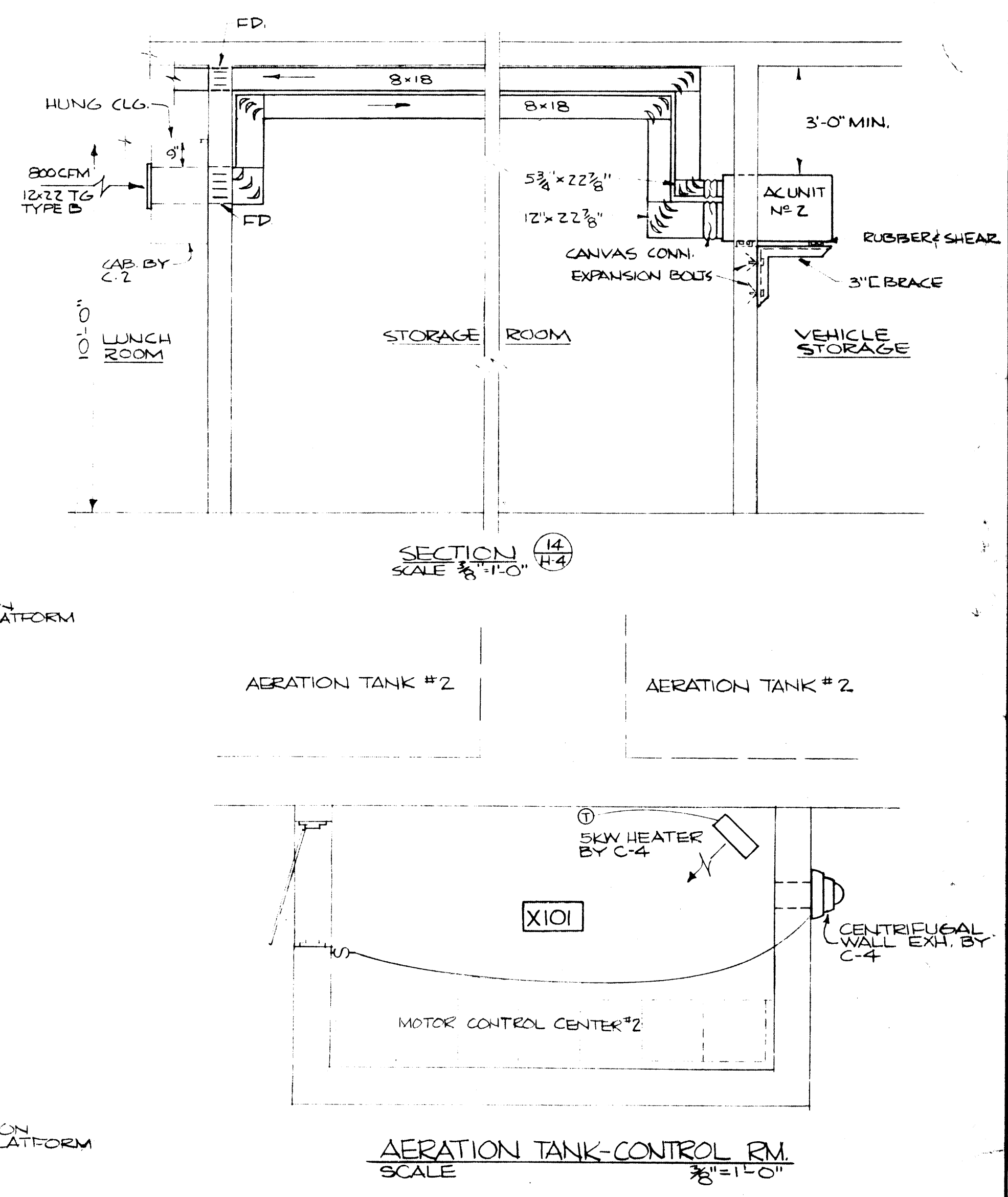
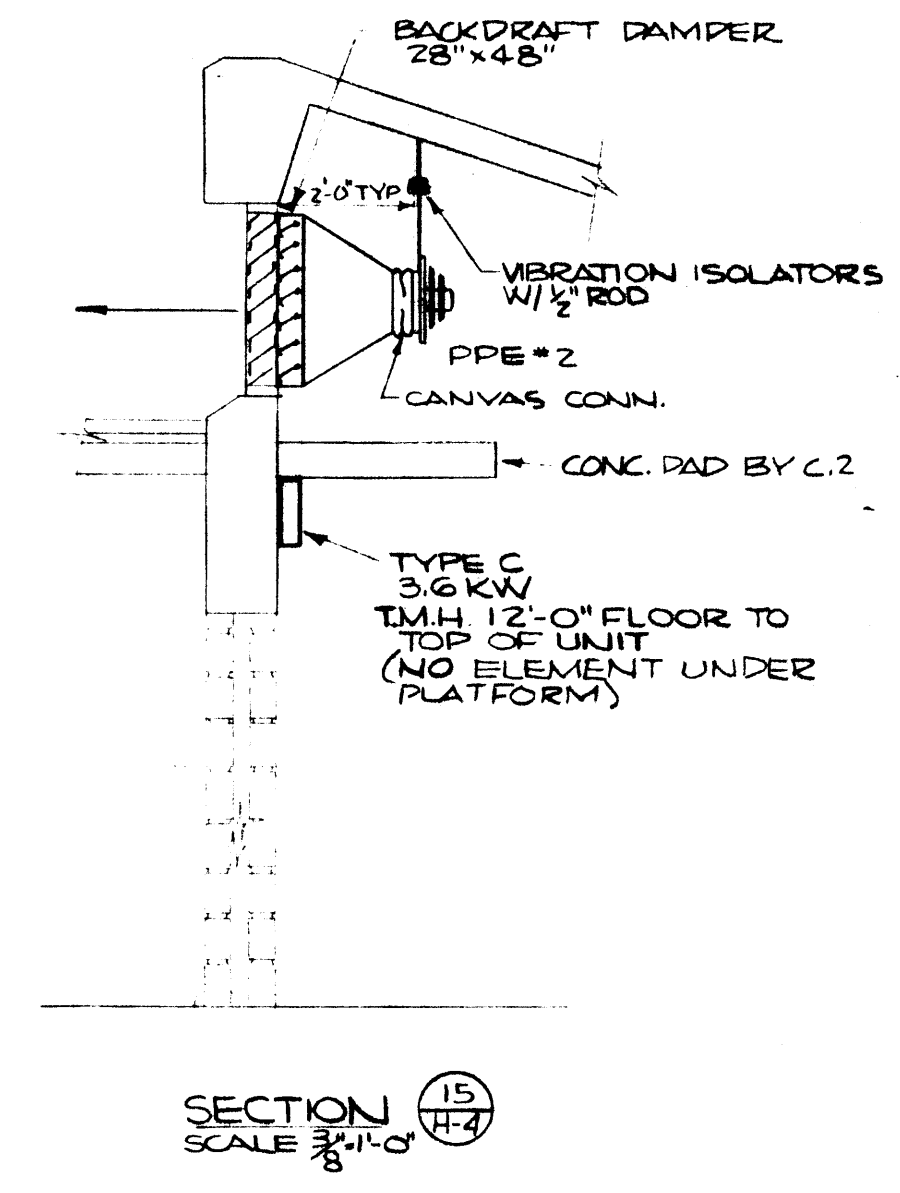
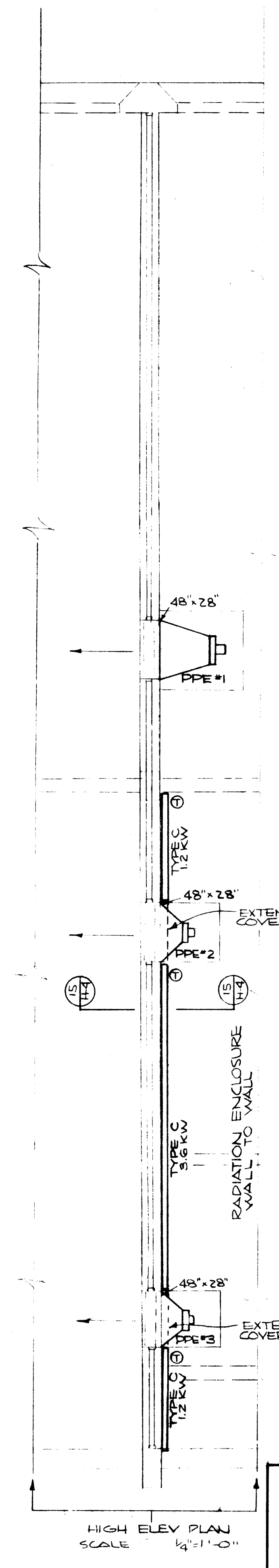
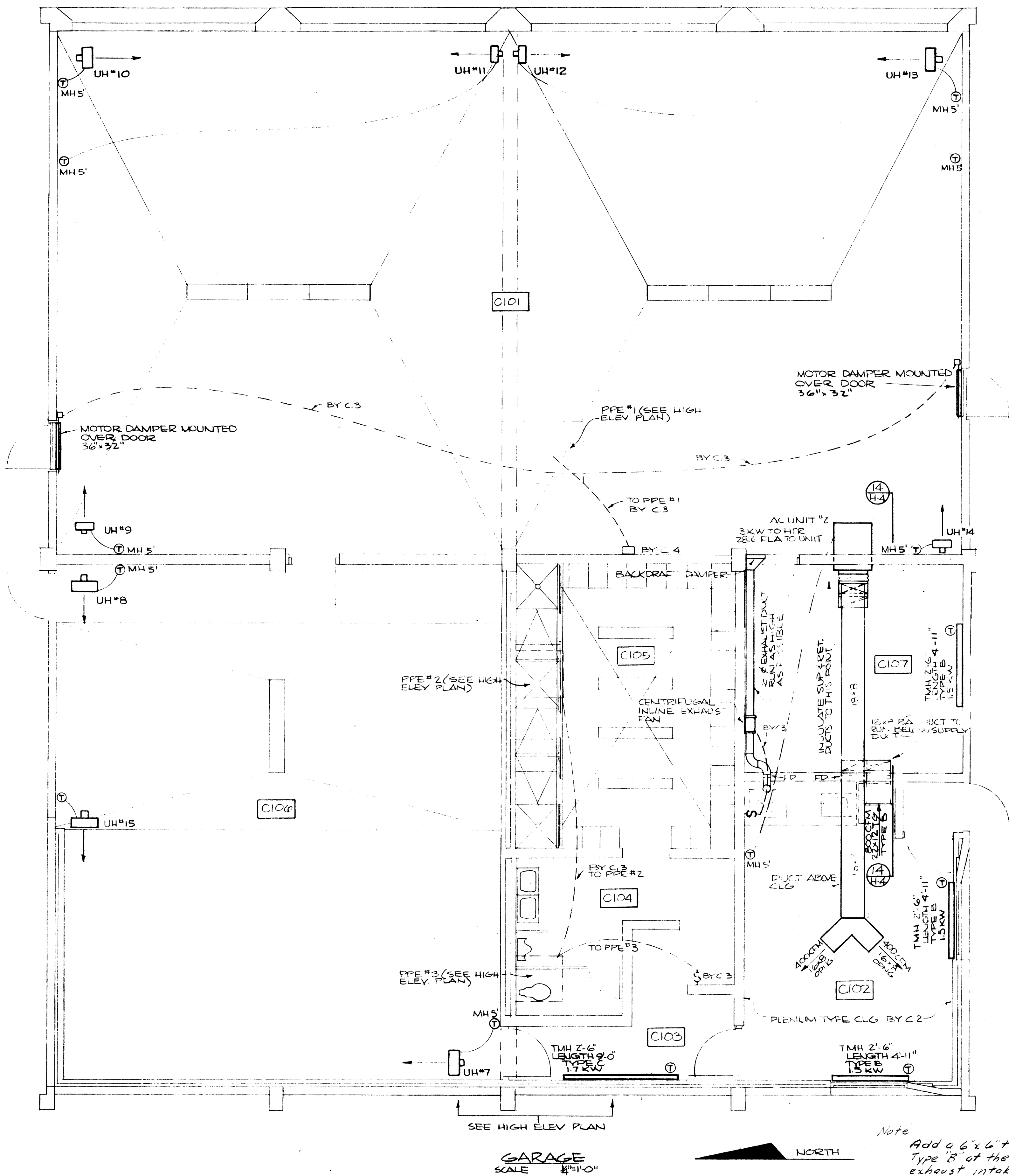
DATE: 2/7/72  
REVISIONS

ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS  
DIVISION OF DRAINAGE AND SANITATION  
MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT  
TREATMENT PLANT  
**SLUDGE PUMP STATION**  
O'BRIEN & GERE  
CONSULTING ENGINEERS & LAND SURVEYORS  
SYRACUSE, NEW YORK

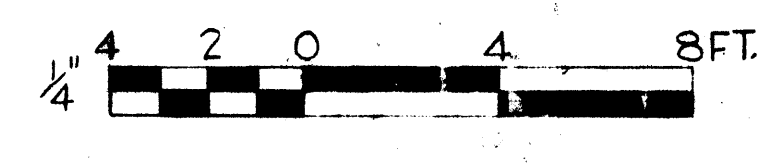


DATE: FEBRUARY 14, 1968  
SCALE: AS NOTED  
FILE NO.: 115W-38F

H-3

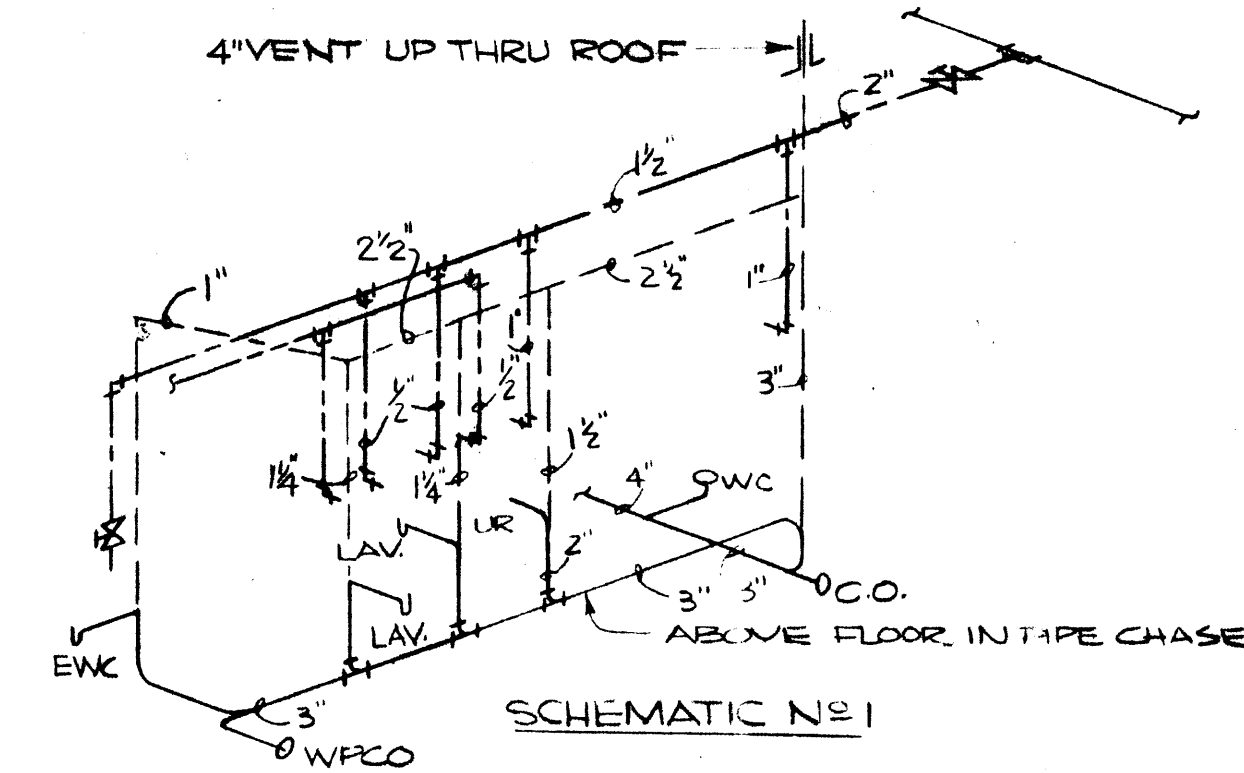
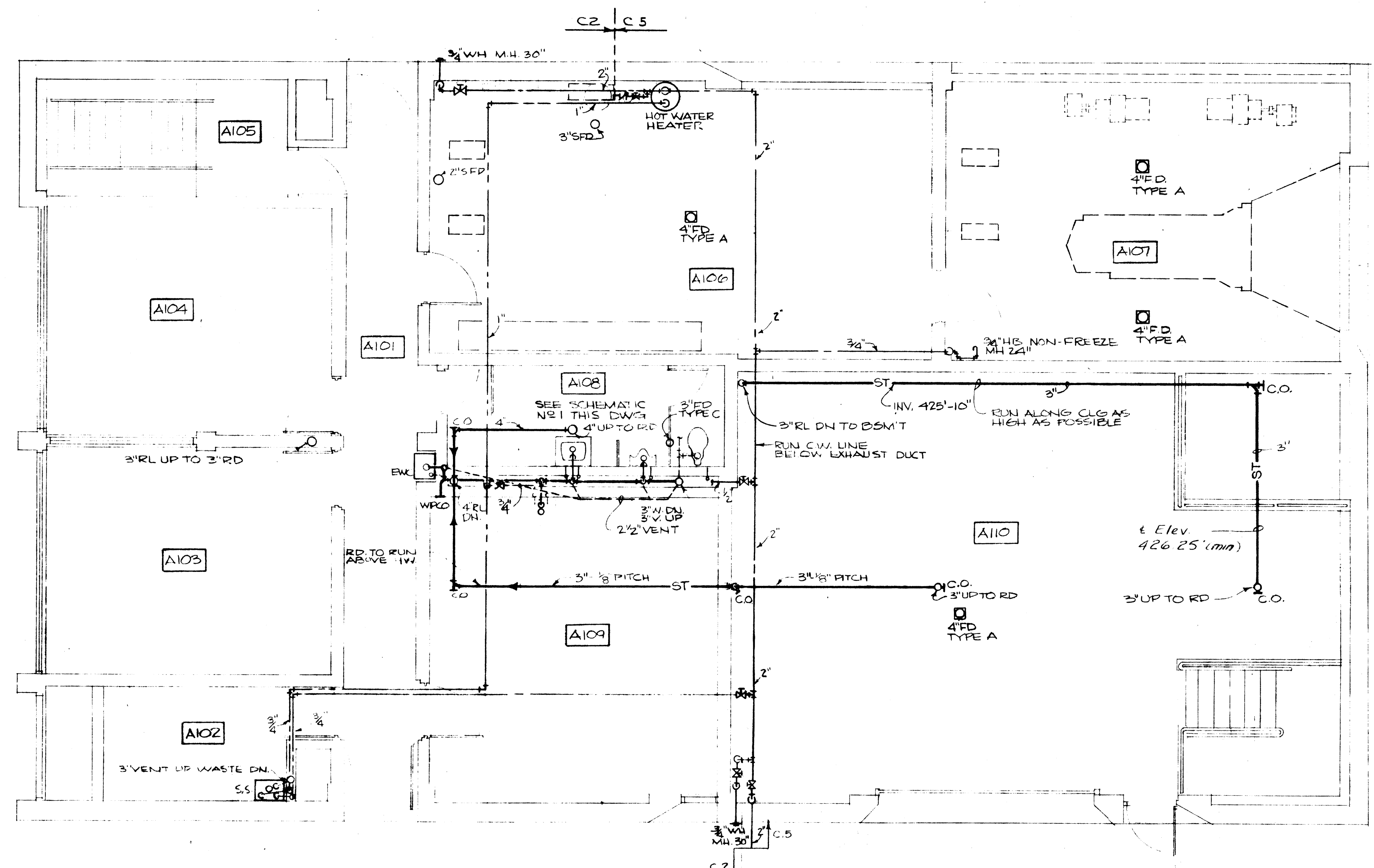


IN CHARGE OF: DF  
 DESIGNED BY: RC  
 MADE BY: DD  
 CHECKED BY: DF



	ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT <b>TREATMENT PLANT GARAGE</b>		
	<b>O'BRIEN &amp; GERE</b> CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	DATE: FEBRUARY 14, 1968 SCALE: AS NOTED FILE NO.: 35349-40F	





FIXTURE CONNECTION SCHEDULE

FIXTURE	WASTE	VENT	CW	HW
WATER CLOSET	4"	3"	1"	-
URINAL	2"	1 1/2"	1"	1/2"
LAVATORY	1 1/2"	1 1/4"	1/2"	1/2"
SHOWER TRIM	-	-	1/2"	1/2"
SERVICE SINK	3"	3"	1/2"	1/2"
EWC	1 1/2"	1 1/4"	1/2"	-

INFLUENT PUMPING STATION - FIRST FLOOR  
SCALE 1/4" = 1'-0"

NOTE:  
 ALL HORIZONTAL ROOF DRAINAGE RUN AS HIGH AS POSSIBLE NEAR CEILING UNLESS OTHERWISE NOTED  
 ALL HORIZONTAL SANITARY DRAINAGE PIPING UNDER FLOOR SLAB UNLESS OTHERWISE NOTED  
 VERIFY ALL LOCATIONS OF SITE FLOW DRAINS WITH C-2

AS BUILT

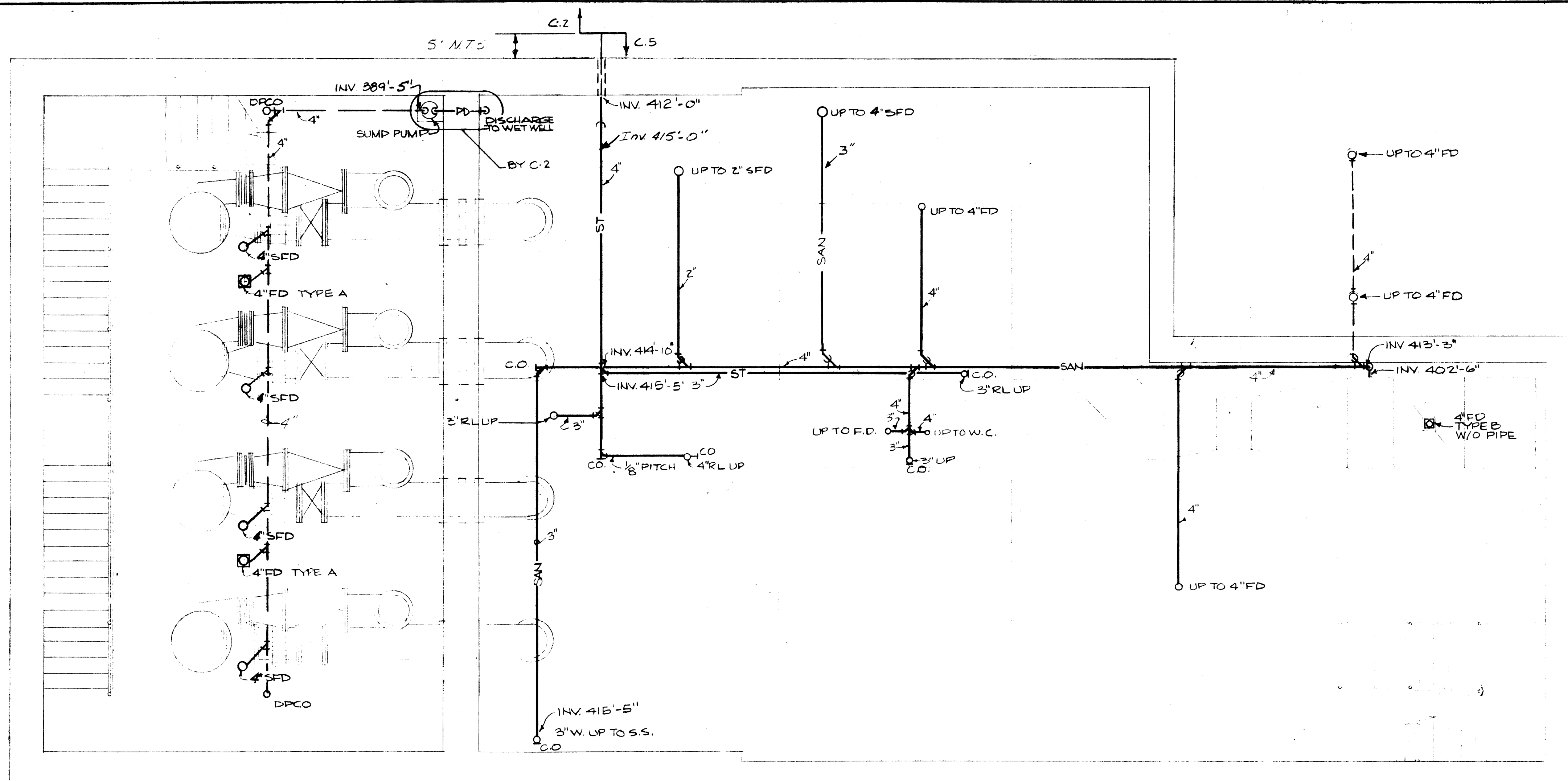
331  
 7/7/72  
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 7/7/72

IN CHARGE OF: DF  
 DESIGNED BY: RC  
 MADE BY: DD  
 CHECKED BY: DF



	ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT <b>TREATMENT PLANT          INFLUENT PUMP STATION          FIRST FLOOR</b>		
	MACKNIGHT - KIRMSE - FRENCH & SIZING CONSULTING ARCHITECTS 6448 RIDGEWOOD SYRACUSE, N.Y. 13294 7/7/72 2/28/73	<b>O'BRIEN &amp; GERE</b> CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK 2/28/73	

P-1



PLUMBING SYMBOLS & ABBREVIATIONS	
----	DOMESTIC COLD WATER PIPING
----	DOMESTIC HOT WATER PIPING
---	VENT PIPING
⊕ ⊕	PIPE DOWN (ELBOW, TEE)
⊖ ⊖	PIPE UP (ELBOW, TEE)
○	DECK PLATE CLEAN OUT
⊖	WALL PLATE CLEAN OUT
⊖	GATE VALVE
⊖	HOSE BIBB
⊖	PRESSURE RELIEF VALVE
⊖	CHECK VALVE
LAV.	LAVATORY
UR	URINAL
W.C.	WATER CLOSET
SH.	SHOWER
EWC.	ELECTRIC WATER COOLER
H.W.	HOT WATER
C.W.	COLD WATER
R.D.	ROOF DRAIN
F.D.	FLOOR DRAIN
SFD	SITE FLOW DRAIN
V.	VENT
W.	WASTE
M.H.	MANHOLE
C-2	CONTRACT NO. 2 GEN. CONSTRUCTION
C-5	CONTRACT NO. 5 PLUMBING
→ WH	WALL HYDRANT
S.S.	SERVICE SINK
INV	INVERT
SAN.	SANITARY
ST	STORM
RL	ROOF LEADER

**BASEMENT-INFLUENT PUMPING STATION**  
SCALE 1/4"=1'-0"

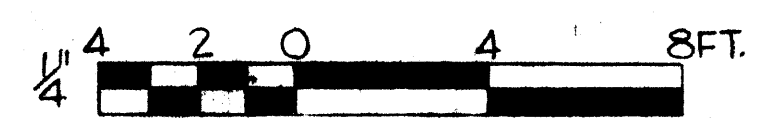


NOTE:  
ALL HORIZONTAL ROOF DRAINAGE RUN AS HIGH AS POSSIBLE NEAR CEILING UNLESS OTHERWISE NOTED  
ALL HORIZONTAL SANITARY DRAINAGE PIPING UNDER FLOOR SLAB UNLESS OTHERWISE NOTED  
VERIFY ALL LOCATIONS OF SITE FLOW DRAINS WITH C-2

AS BUILT

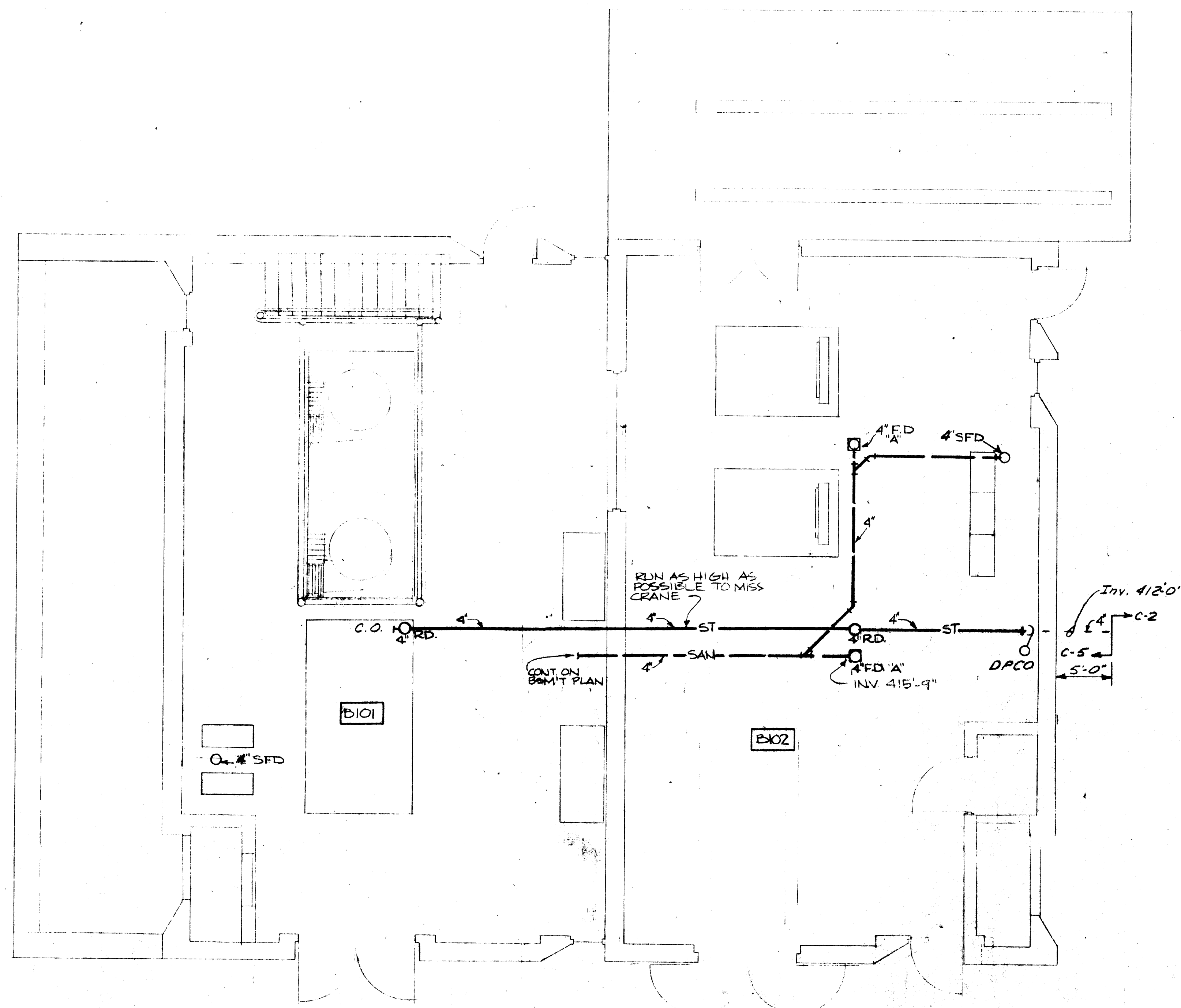
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DESIGNED BY: RC  
MADE BY: DD  
CHECKED BY: DF

IN CHARGE OF: DF  
DESIGNED BY: RC  
MADE BY: DD  
CHECKED BY: DF



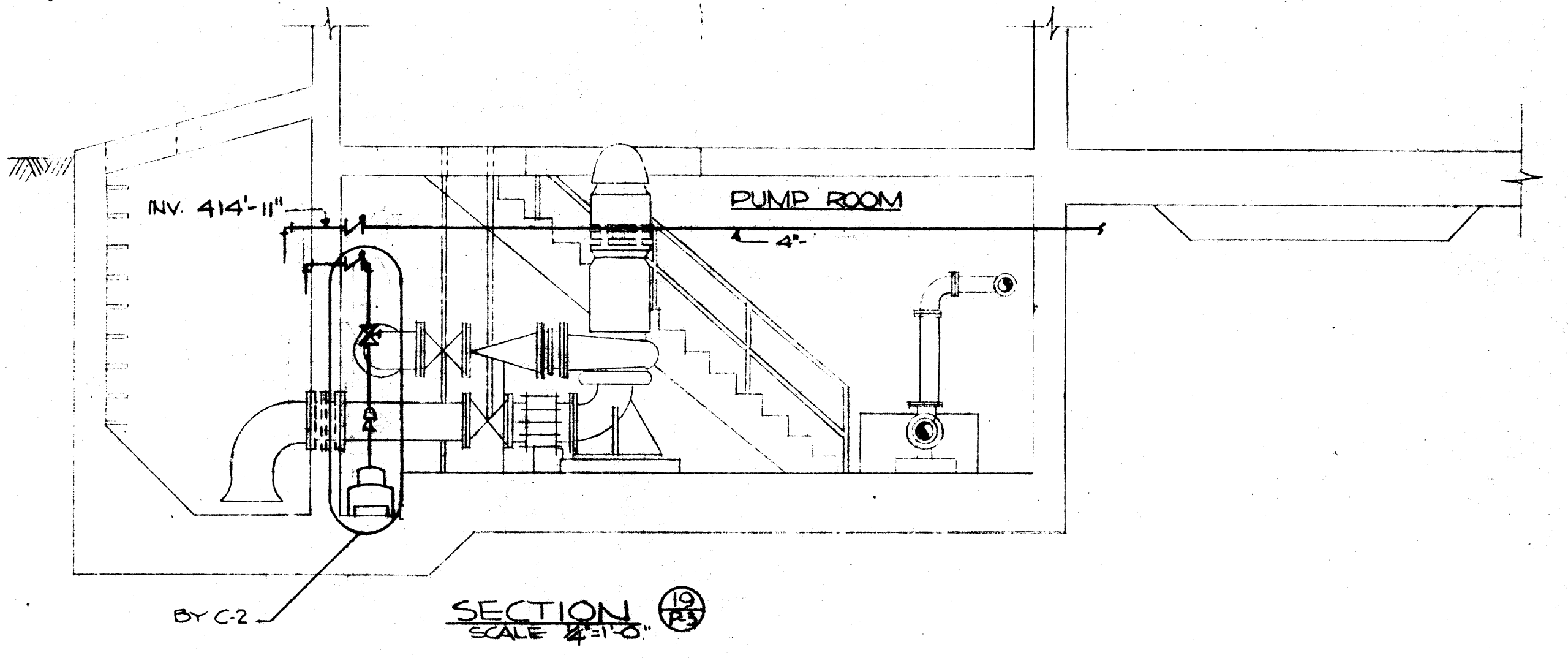
	<p>ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK-LIMESTONE TREATMENT PLANT DISTRICT</p> <p><b>TREATMENT PLANT INFLUENT PUMP STATION BASEMENT</b></p>	
<p>MACKNIGHT - KIRCHISE - FRENCH &amp; SIZINO CONSULTING ARCHITECTS 6440 BRONX ROAD, SYRACUSE, N.Y. 13206</p>	<p>DATE: FEBRUARY 14, 1968 SCALE: AS NOTED FILE NO.: 15.141-43F</p>	<p>REVISIONS</p>



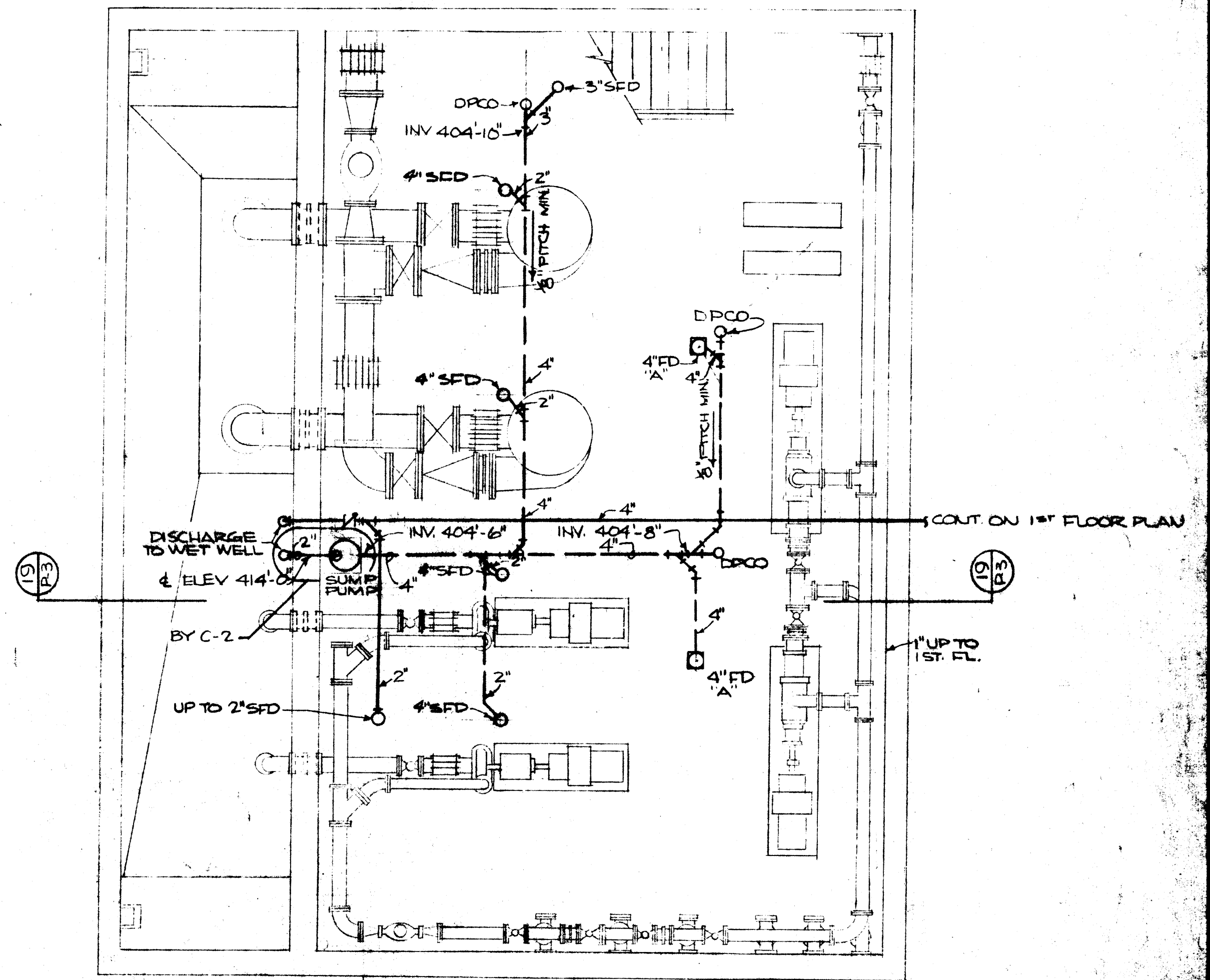


SLUDGE PUMP STATION 1<sup>ST</sup> FLOOR  
SCALE 1/8" = 1'-0"

NOTE:  
ALL HORIZONTAL ROOF DRAINAGE PIPING RUN AS HIGH AS POSSIBLE NEAR CEILING UNLESS OTHERWISE NOTED  
ALL HORIZONTAL SANITARY DRAINAGE PIPING UNDER FLOOR SLABS UNLESS OTHERWISE NOTED  
VERIFY ALL LOCATIONS OF SITE FLOW DRAINS WITH C-2



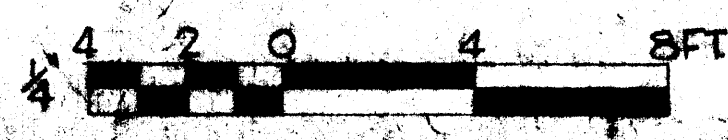
SECTION 19  
SCALE 1/4" = 1'-0"



PUMP ROOM IN BASEMENT  
SCALE 1/4" = 1'-0"

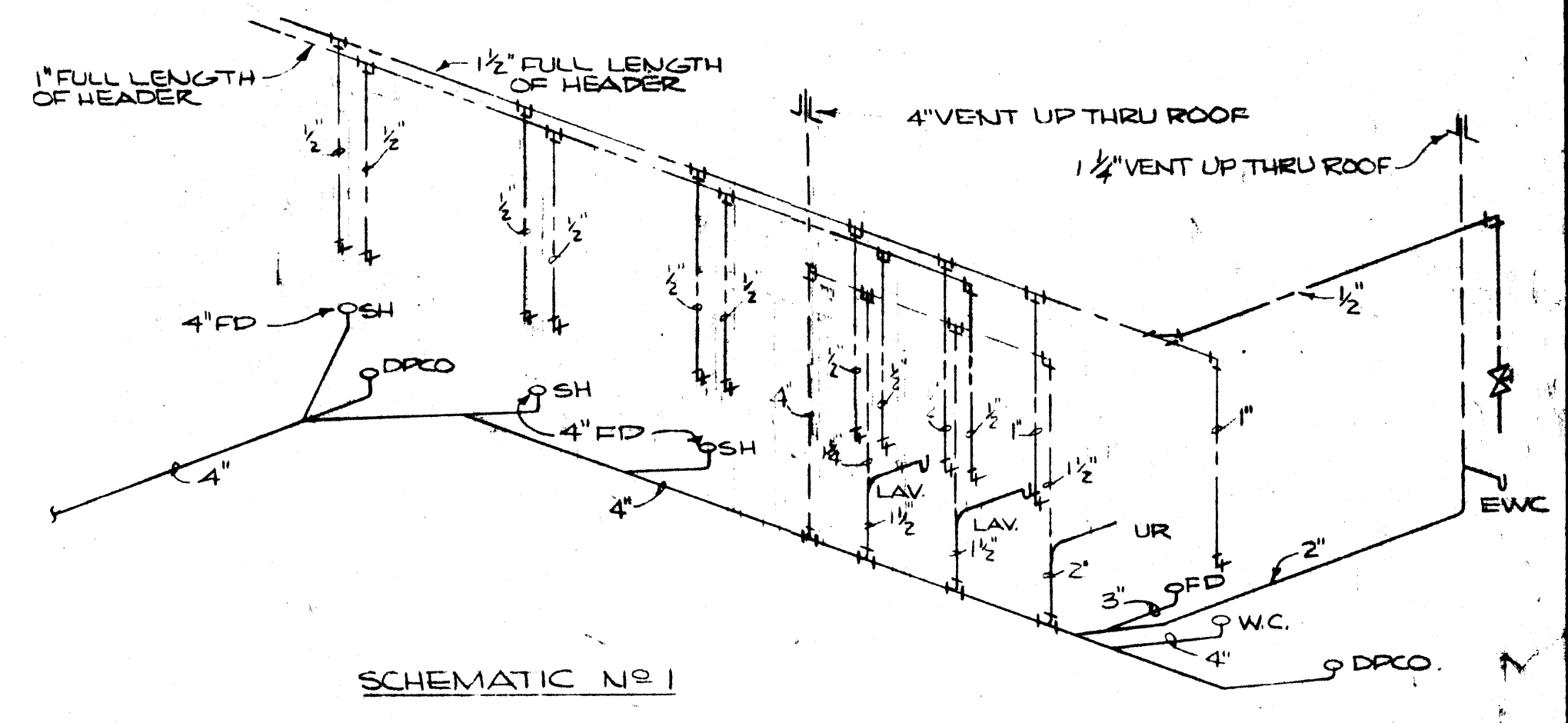
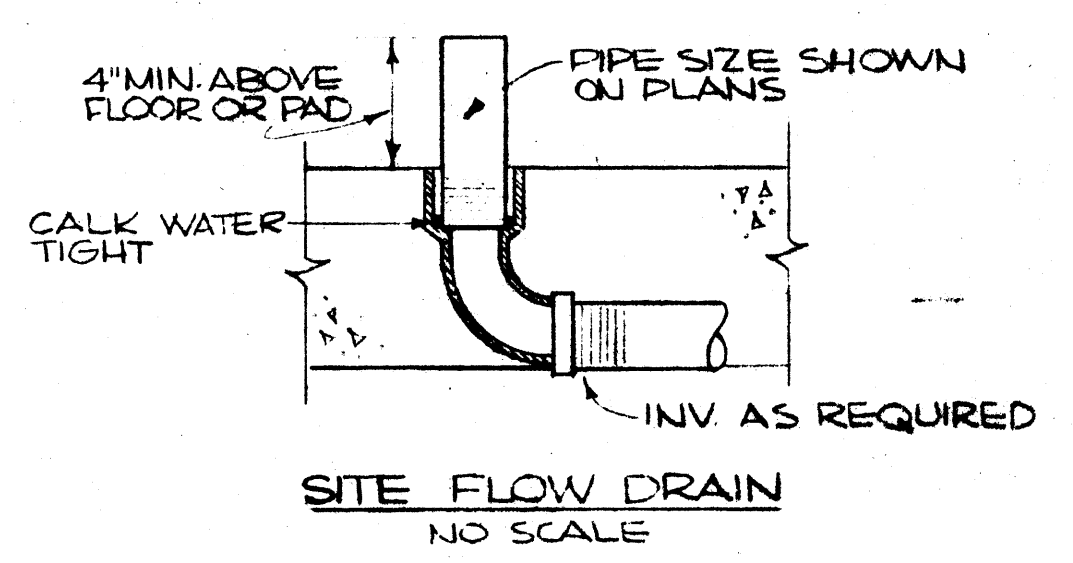
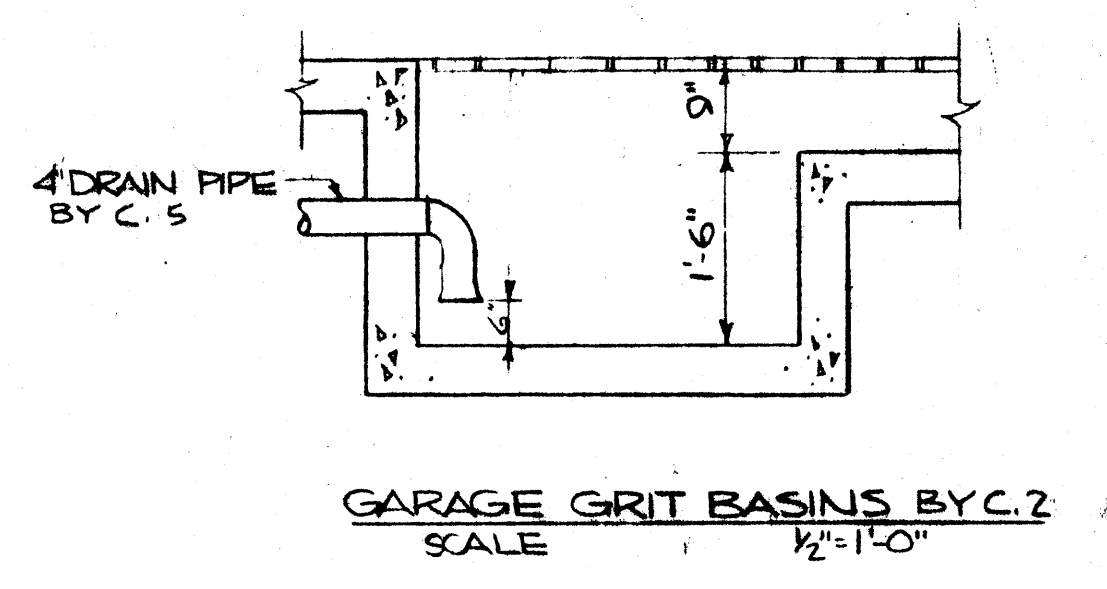
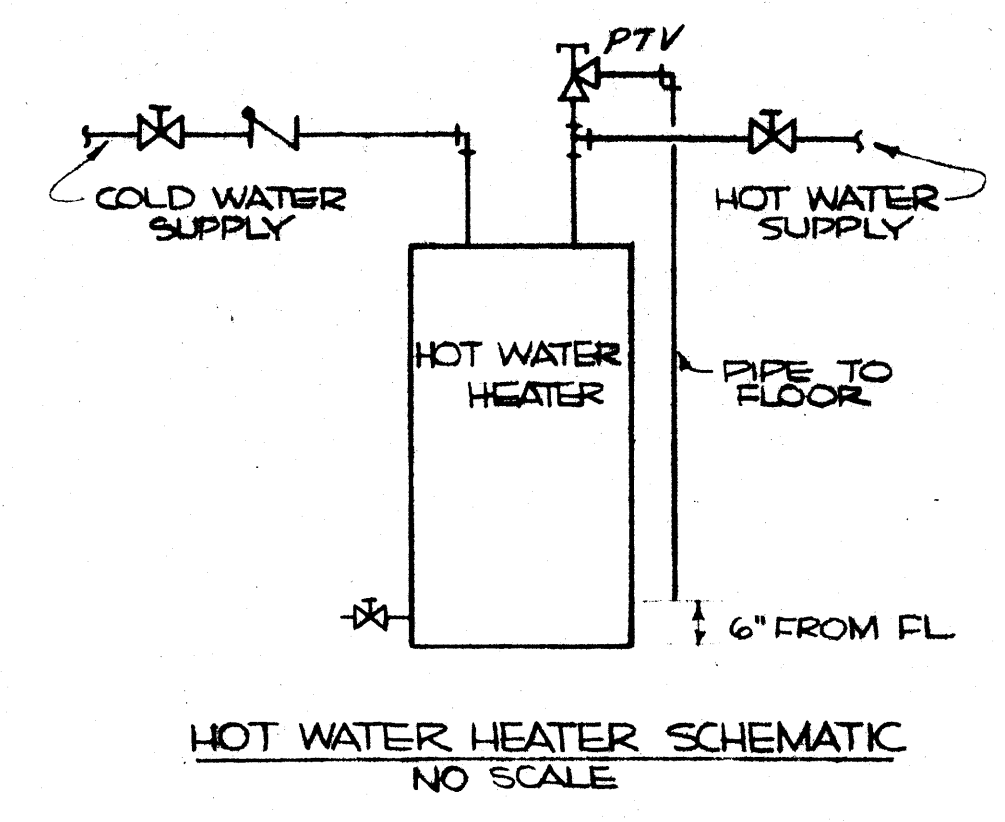
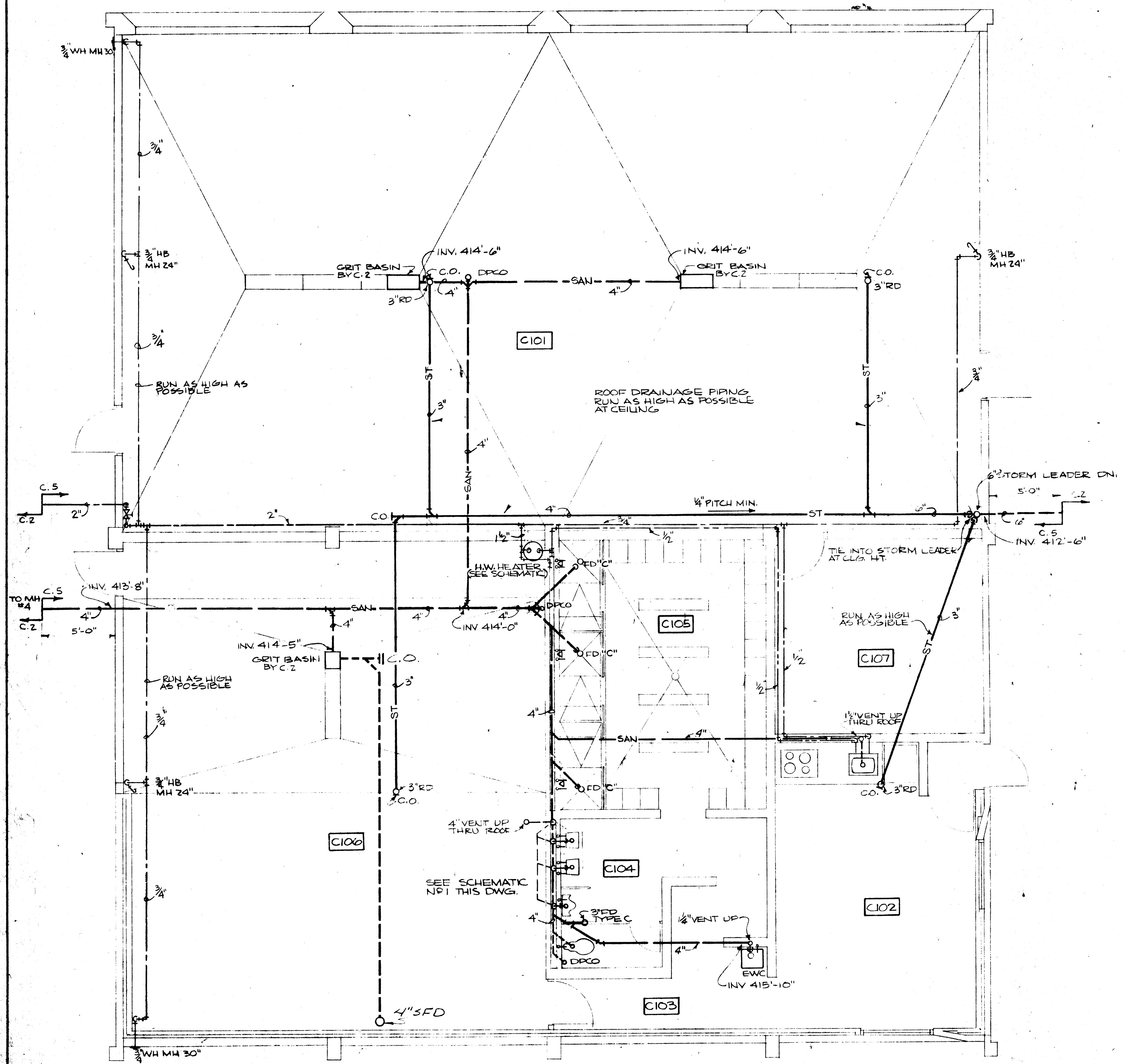
AS BUILT

AS BUILT  
J.F. 331  
RC  
DD  
DF



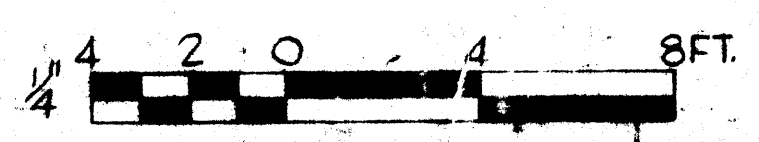
	ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT TREATMENT PLANT		
	<b>SLUDGE PUMP STATION</b> <b>FIRST FLOOR &amp; BASEMENT</b>		
O'BRIEN & GERE CONSULTING ENGINEERS AND SURVEYORS 1000 W. 10th St., Buffalo, N.Y. 14203	DATE: FEBRUARY 14, 1968 SCALE: AS NOTED DRAWING NO.: 1539-448		





NO.	DATE	BY	REVISION
331			
332			
333			
334			
335			

NOTE:  
 ALL HORIZONTAL ROOF DRAINAGE PIPING RUN AS HIGH AS POSSIBLE NEAR CEILING UNLESS OTHERWISE NOTED  
 ALL HORIZONTAL SANITARY DRAINAGE PIPING UNDER FLOOR SLAB UNLESS OTHERWISE NOTED  
 VERIFY ALL LOCATIONS OF SITE FLOW DRAINS WITH C-2



Note  
 All vents passing through the roof shall be at least 4" in diameter where they pass through the roof

AS BUILT

IN CHARGE OF: DF  
 DESIGNED BY: RC  
 MADE BY: DD  
 CHECKED BY: DF

	ONONDAGA COUNTY DEPARTMENT OF PUBLIC WORKS DIVISION OF DRAINAGE AND SANITATION MEADOWBROOK - LIMESTONE TREATMENT PLANT DISTRICT <b>TREATMENT PLANT GARAGE</b>	
	<b>O'BRIEN &amp; GERE</b> CONSULTING ENGINEERS & LAND SURVEYORS SYRACUSE, NEW YORK	
DATE: FEBRUARY 14, 1968 SCALE: AS NOTED I. NO.: BSM-45E	6443 BLDG. PLAN, ALBANY, N.Y. 12205 2/14/68 15/10/68	