

# CITY OF JOLIET

ILLINOIS

DIVISION A

SEWAGE TREATMENT PLANT

INTERCEPTING SEWERS, SEWER EXTENSIONS

AND WATER MAIN EXTENSIONS

CONTRACT NO. 9

CONSOER TOWNSEND AND ASSOCIATES

CONSULTING ENGINEERS

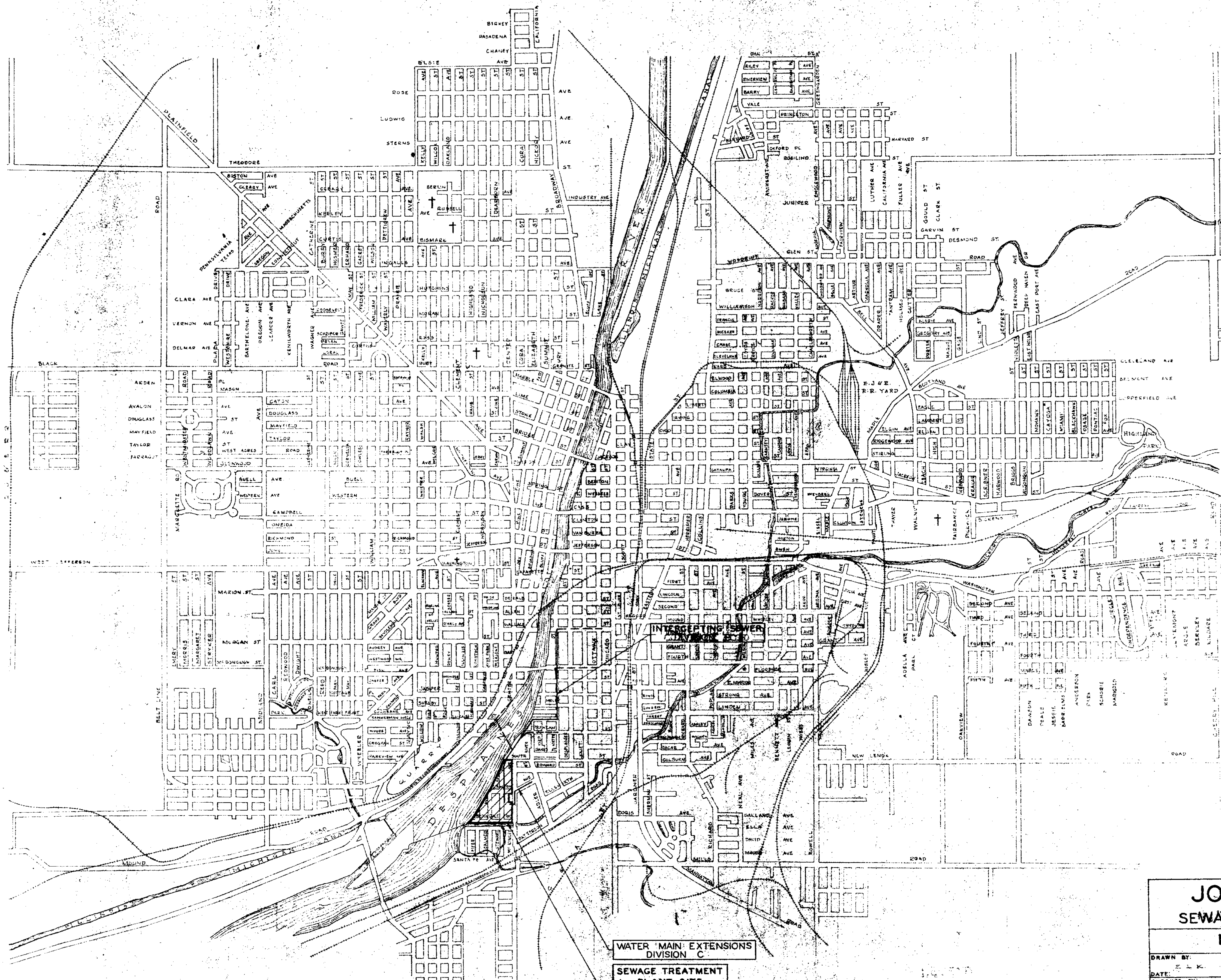
351 E. OHIO ST.

CHICAGO 11, ILL.

SEWER TREATMENT  
PLANT

No. 9

Division A

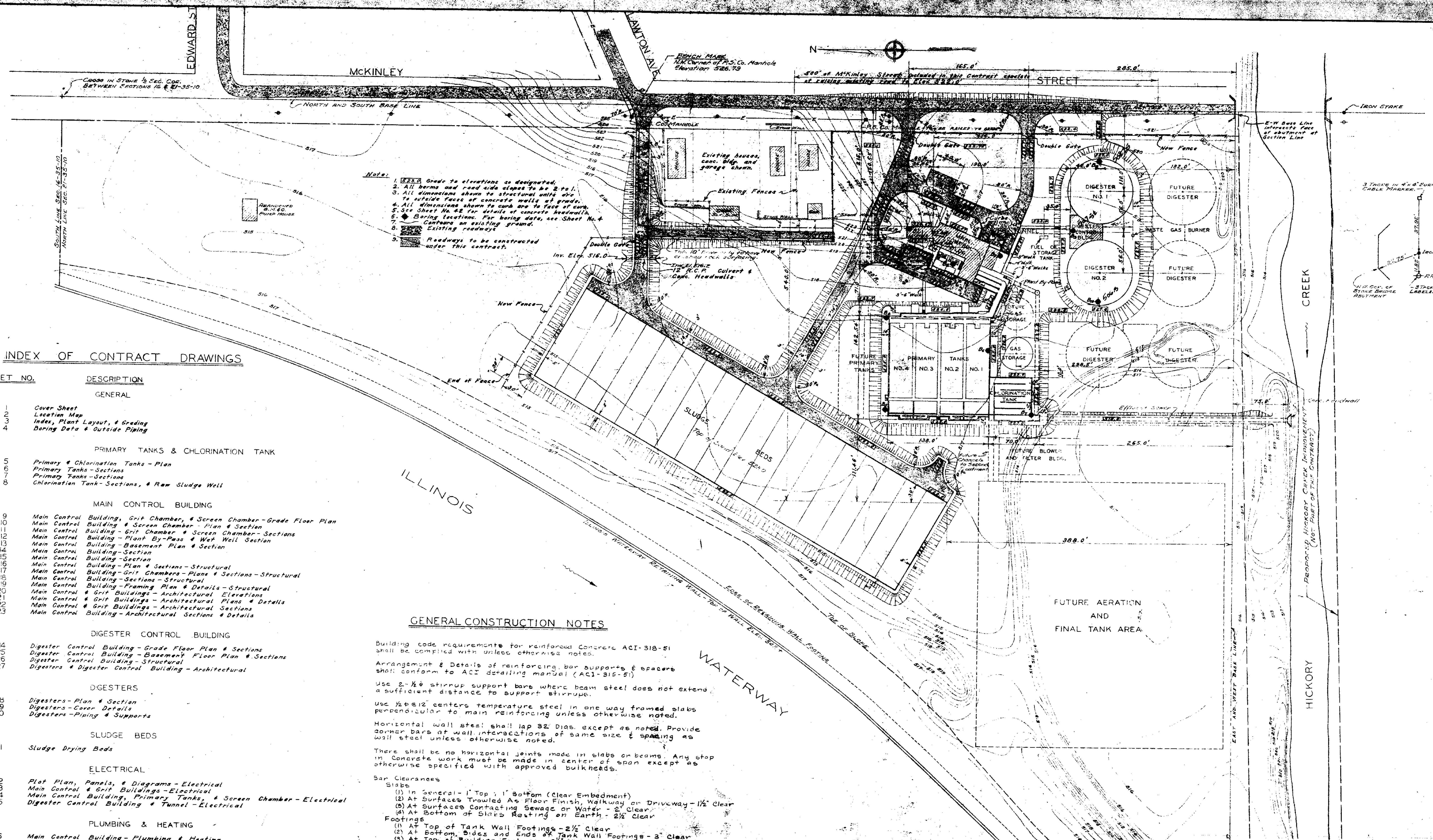


WATER MAIN EXTENSIONS  
DIVISION C

SEWAGE TREATMENT  
PLANT SITE  
C DIVISION R 9

<b>JOLIET, ILLINOIS SEWAGE TREATMENT PLANT LOCATION MAP</b>	
DRAWN BY: E. L. K. CHECKED BY: L. F. R. APPROVED: R. A. S.	CONSOER, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS CHICAGO, ILL.
DATE: APRIL 1954 SHEET NO. 2 OF 45 SHEETS	SCALE: REVISED:





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**GENERAL CONSTRUCTION NOTES**

Building code requirements for reinforced concrete ACI-318-51 shall be complied with unless otherwise noted.

Arrangement & Details of reinforcing bar supports & spacers shall conform to ACI detailing manual (ACI-318-51)

Use 2- $\frac{1}{2}$ "  $\phi$  stirrup support bars where beam steel does not extend a sufficient distance to support stirrups.

Use  $\frac{1}{2}$ "  $\phi$   $\phi$ 12 centers temperature steel in one way framed slabs perpendicular to main reinforcing unless otherwise noted.

Horizontal wall steel shall lap 32 Dias. except as noted. Provide corner bars at wall intersections of same size & spacing as wall steel unless otherwise noted.

There shall be no horizontal joints made in slabs or beams. Any stop in concrete work must be made in center of span except as otherwise specified with approved bulkheads.

**Bar Clearances**

**Slabs**

- (1) In General - 1" Top, 1" Bottom (Clear Embedment)
- (2) At Surfaces Trowled As Floor Finish, Walkway or Driveway - 1/2" Clear
- (3) At Surfaces Contacting Sewage or Water - 2" Clear
- (4) At Bottom of Slabs Resting on Earth - 2 1/2" Clear

**Footings**

- (1) At Top of Tank Wall Footings - 2 1/2" Clear
- (2) At Bottom, Sides and Ends of Tank Wall Footings - 3" Clear
- (3) At Top of Building Footings - 2 1/2" Clear
- (4) At Bottom of Building Footings - Where Sealing Concrete is Used - 2" Clear
- (5) At Bottom of Building Footing - 3" Clear

**Walls**

- (1) In Walls Less Than 12" Thick - 1 1/2" Clear
- (2) In Walls 12" Thick Or More, up to 10'-0" in Height - 2" Clear.

**Beams And Girders**

- (1) Minimum To Stirrup Steel - 1 1/2" Clear
- (2) Minimum To Main Longitudinal Steel - 2" Clear

Note: Add 1/2" For Beams and Girders Contacting Sewage.

**Columns**

- (1) Up to 10'-0" in Height - 2" Clear
- (2) 10'-0" and higher - 2 1/2" Clear

The Location of All Construction Joints Shall be Subject to Approval of Engineer

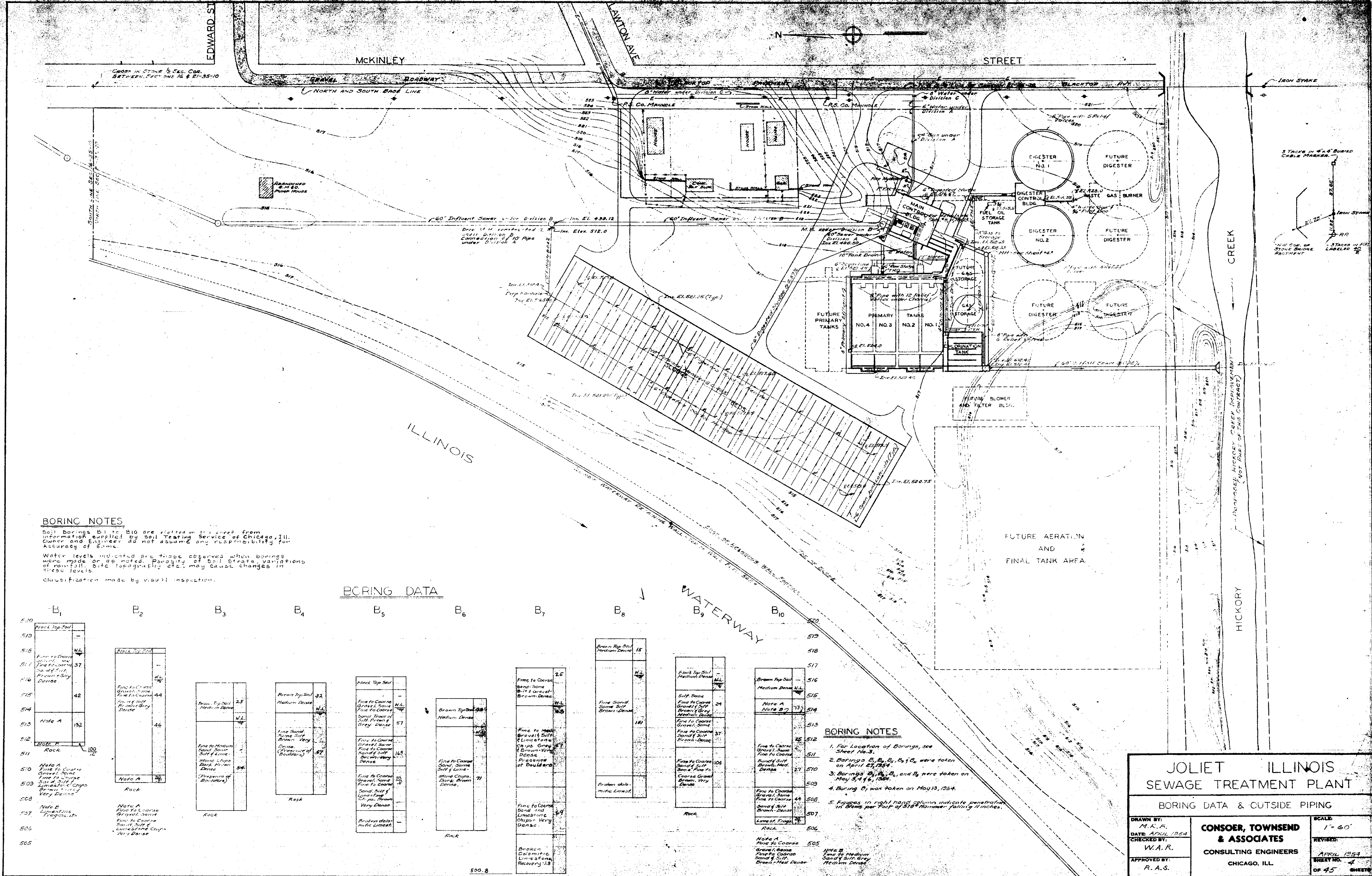
Substitute For All Reinforcing Bars Indicated Equivalent A.S.T.M. A-305 Bars

**JOLIET ILLINOIS  
SEWAGE TREATMENT PLANT**

**INDEX, PLANT LAYOUT, & GRADING**

DRAWN BY: M.A.R. DATE: APRIL 1954 CHECKED BY: L.F.R. APPROVED BY: R.A.S.	<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.	SCALE: 1" = 60' REVISED: APRIL 1954 SHEET NO. 3 OF 45 SHEETS
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**BORING NOTES**

Soil borings B<sub>1</sub> to B<sub>10</sub> are plotted on this sheet from information supplied by Soil Testing Service of Chicago, Ill. Owner and Engineer do not assume any responsibility for accuracy of same.

Water levels indicated are those observed when borings were made or as noted. Porosity of soil strata, variations of rainfall, site topography etc., may cause changes in these levels.

Classification made by visual inspection.

**BORING DATA**

B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	B <sub>4</sub>	B <sub>5</sub>	B <sub>6</sub>	B <sub>7</sub>	B <sub>8</sub>	B <sub>9</sub>	B <sub>10</sub>
520 Rock Top Soil 513 515 Fine to Coarse Sand, some fine to coarse sand, brown dry dense 511 37 516 42 515 514 Note A 152 513 512 Note A 511 Rock 510 Note A Fine to Coarse Sand, some fine to coarse sand, limestone chips, brown, very dense 503 508 Note B Limestone fragments 507 506 505	520 515 511 44 514 46 512 Note A 26 511 Rock 510 Note A Fine to Coarse Sand, some fine to coarse sand, limestone chips, very dense 503 508 507 506 505	520 515 511 25 514 512 511 Rock 510 503 508 507 506 505	520 515 511 32 514 512 511 Rock 510 503 508 507 506 505	520 515 511 44 514 46 512 Note A 26 511 Rock 510 Note A Fine to Coarse Sand, some fine to coarse sand, limestone chips, very dense 503 508 507 506 505	520 515 511 25 514 512 511 Rock 510 503 508 507 506 505	520 515 511 32 514 512 511 Rock 510 503 508 507 506 505	520 515 511 15 514 512 511 Rock 510 503 508 507 506 505	520 515 511 24 514 512 511 Rock 510 503 508 507 506 505	520 515 511 17 514 512 511 Rock 510 503 508 507 506 505

**BORING NOTES**

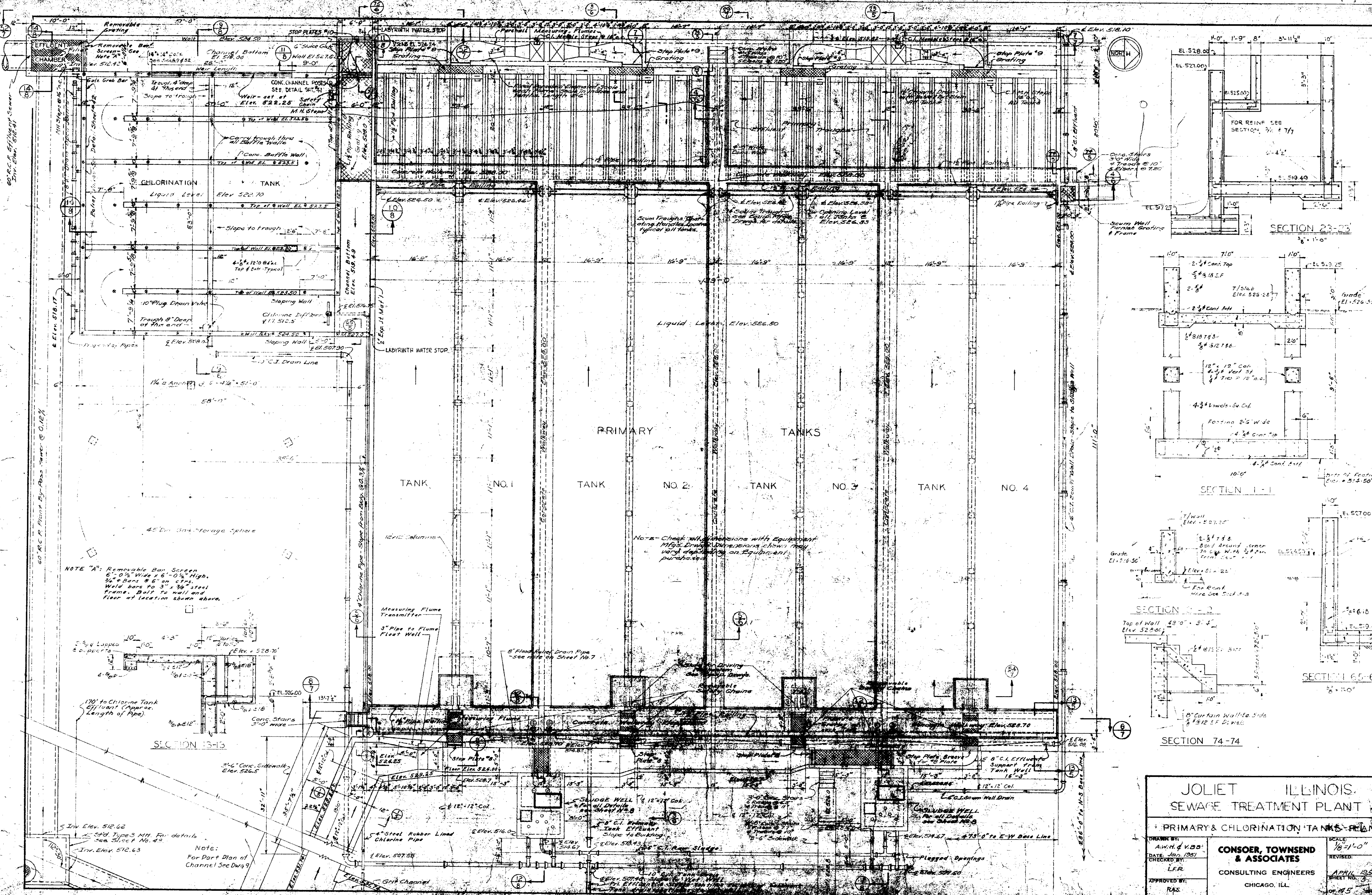
1. For Location of Borings, see Sheet No. 3.
2. Borings B<sub>1</sub>, B<sub>2</sub>, B<sub>3</sub>, B<sub>4</sub>, B<sub>5</sub>, B<sub>6</sub> were taken on April 23, 1954.
3. Borings B<sub>7</sub>, B<sub>8</sub>, B<sub>9</sub>, and B<sub>10</sub> were taken on May 3, 4 & 6, 1954.
4. Boring B<sub>7</sub> was taken on May 13, 1954.
5. Figures in right hand column indicate penetration in Blows per Foot of 378# Hammer falling 14 inches.

**JOLIET ILLINOIS  
SEWAGE TREATMENT PLANT**

BORING DATA & OUTSIDE PIPING

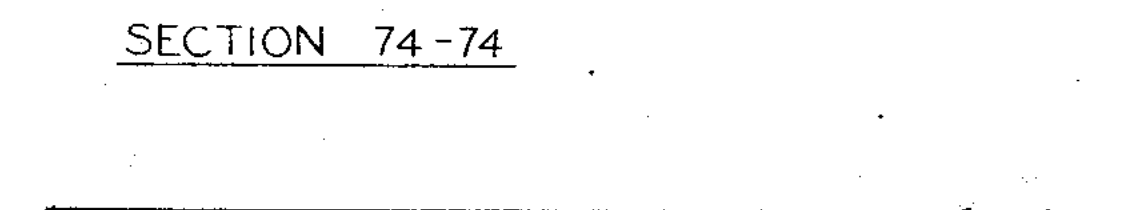
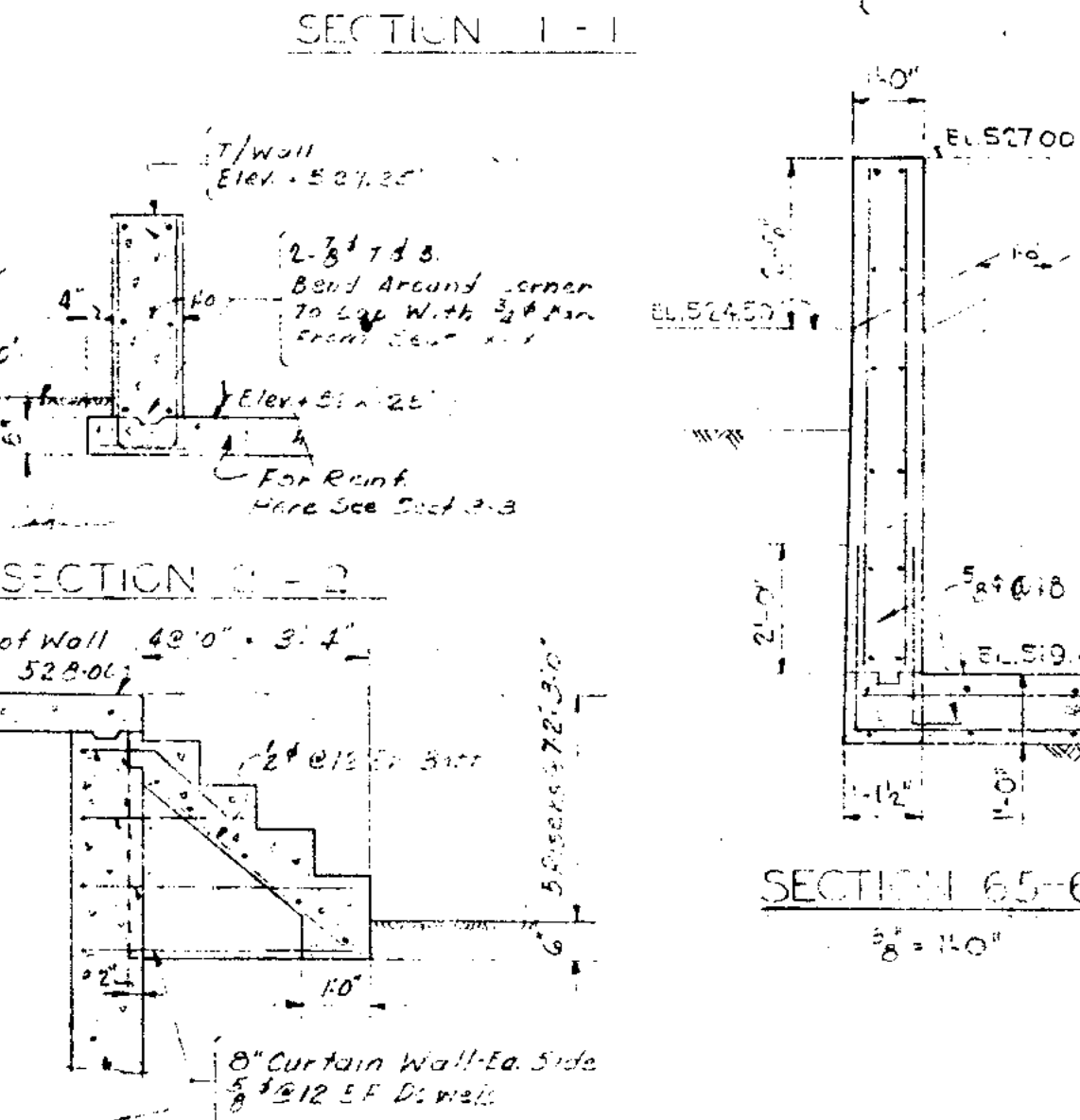
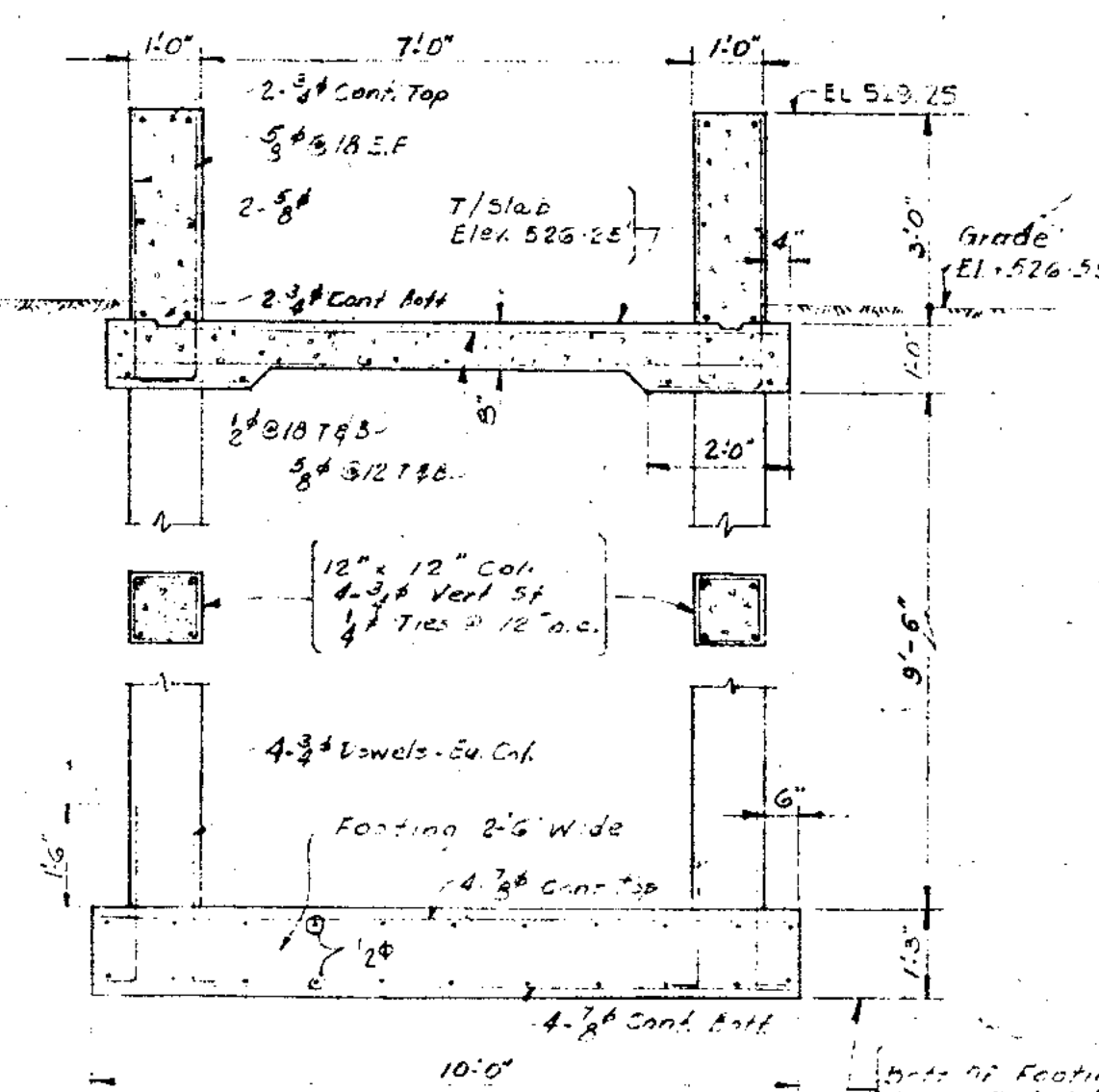
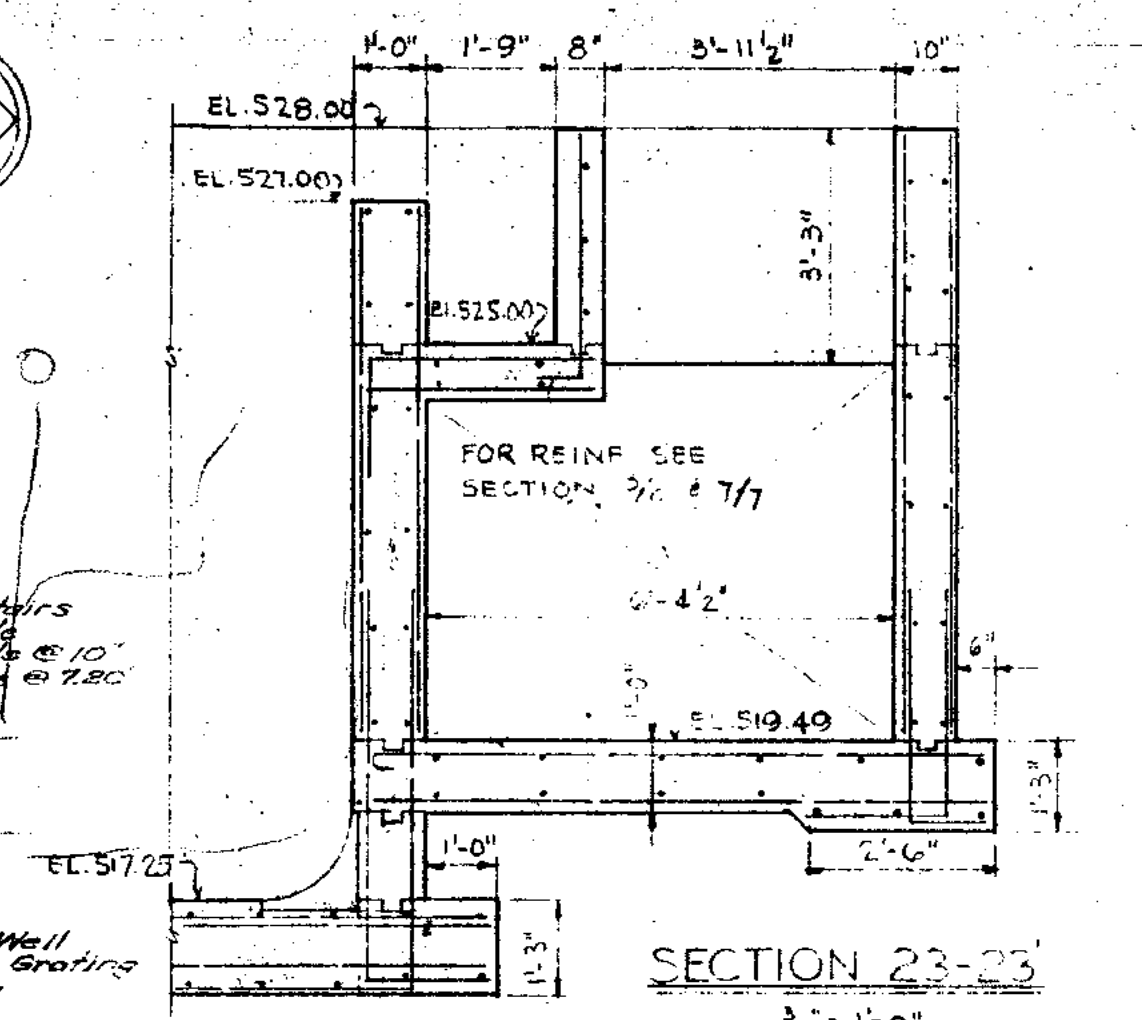
DRAWN BY: M.A.S.	<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.	SCALE: 1" = 60'
DATE: APRIL 1954		REVISED:
CHECKED BY: W.A.R.		APRIL 1954
APPROVED BY: R.A.S.		SHEET NO. 4 OF 45 SHEETS





**NOTE "A":** Removable Bar Screen  
 6'-0" Wide x 6'-0" High  
 3/4" Bars @ 6" on ctrs.  
 Weld bars to 3" x 3/8" steel  
 frame. Bolt to wall and  
 floor at location shown above.

No. 2 - Check all dimensions with Equipment  
 Mfg. Drawings. Dimensions shown may  
 vary depending on Equipment  
 purchased.

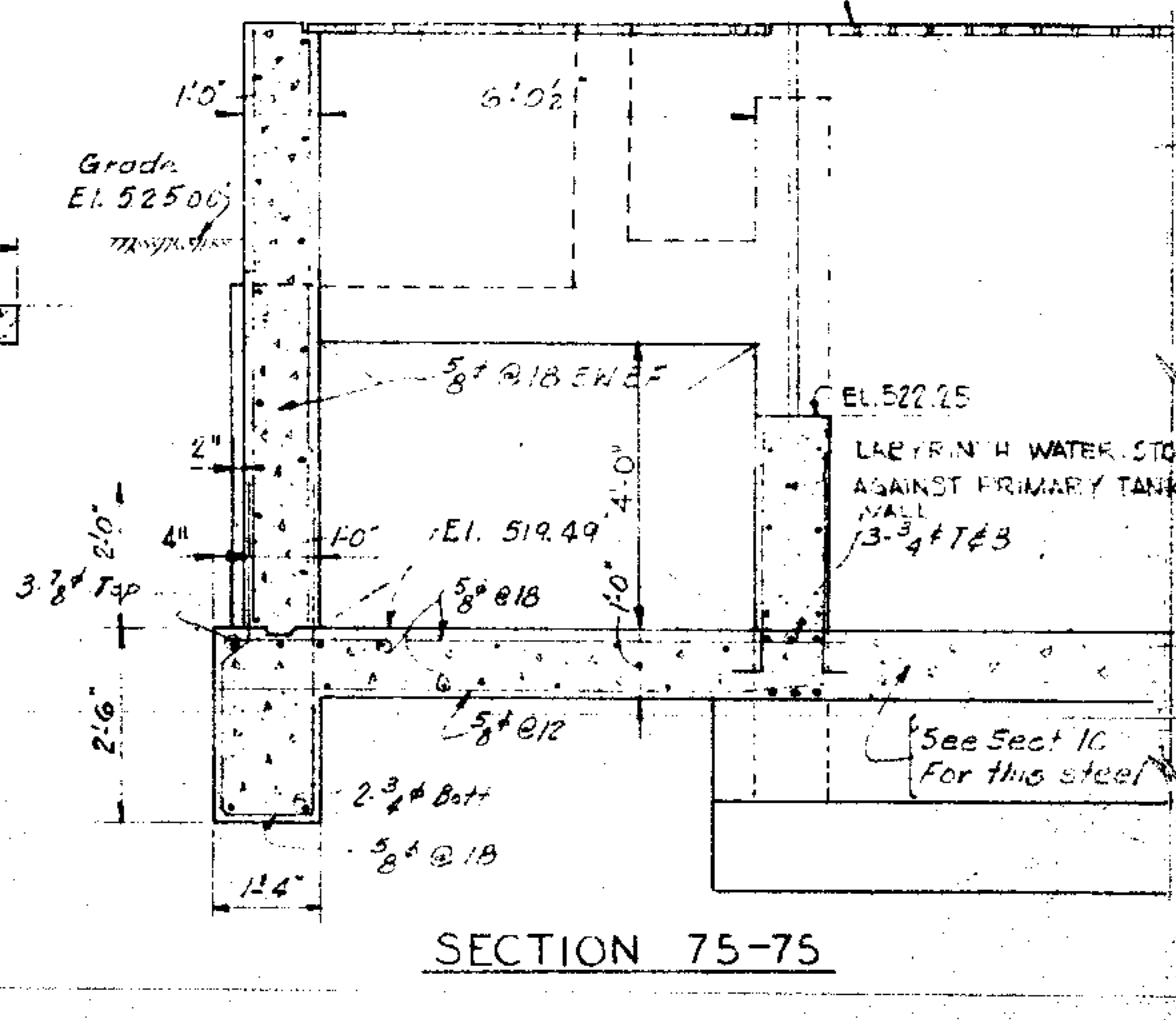
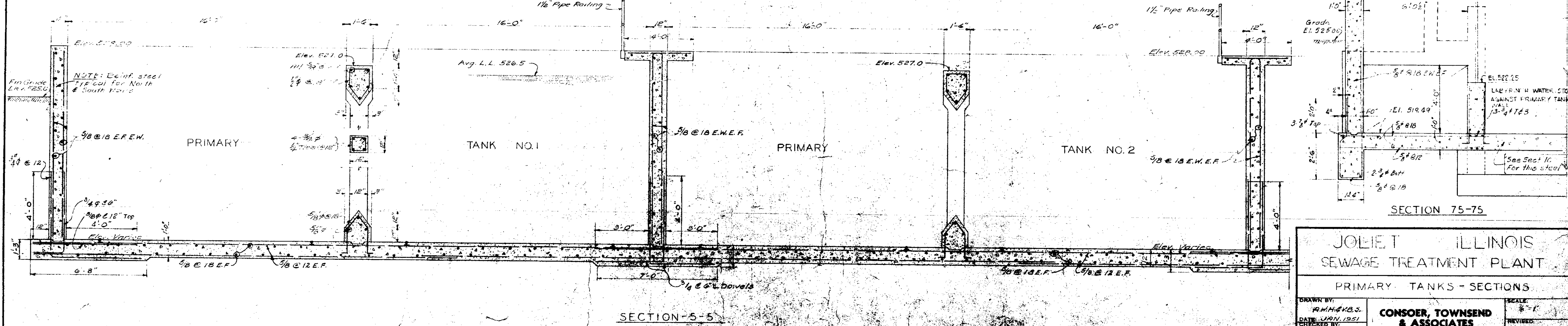
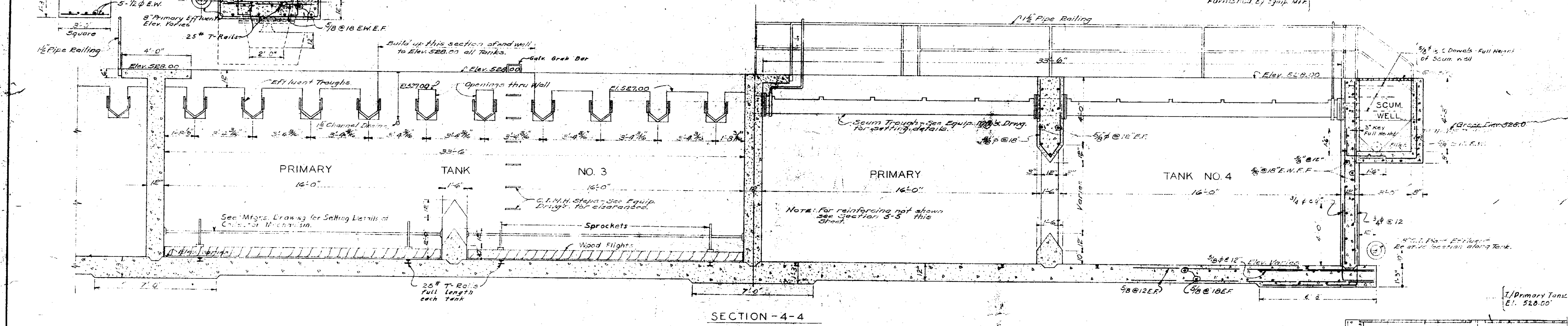
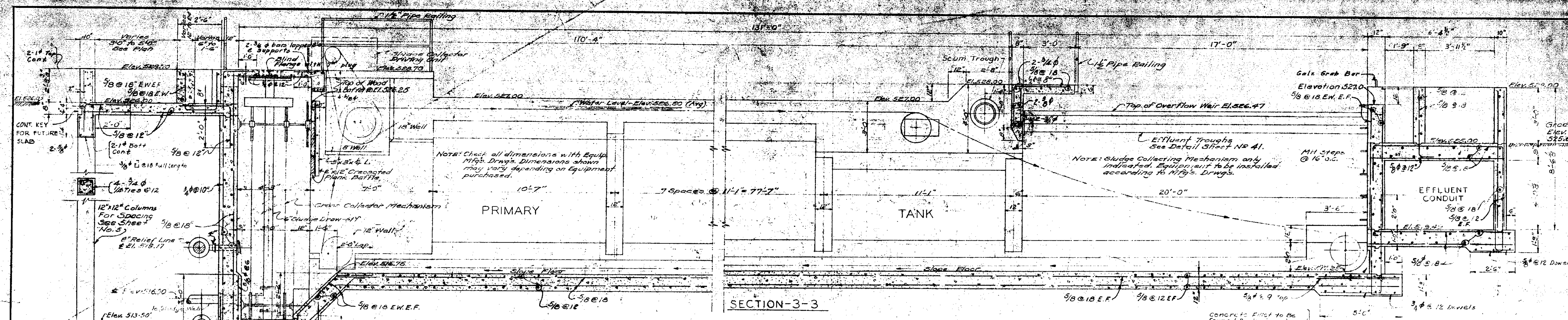


**JOLIET ILLINOIS**  
**SEWAGE TREATMENT PLANT**

**PRIMARY & CHLORINATION TANKS - PLAN**

DRAWN BY: A.W.D. & V.B.S. DATE: JUN 1951 CHECKED BY: L.F.R. APPROVED BY: R.A.S.	<b>CONSOER, TOWNSEND          &amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.	SCALE: 1/8" = 1'-0" REVISED: APRIL 1954 SHEET NO. OF 45
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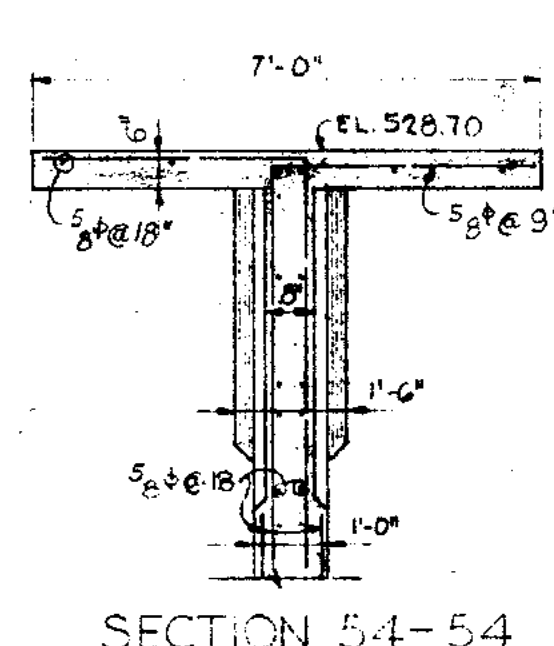
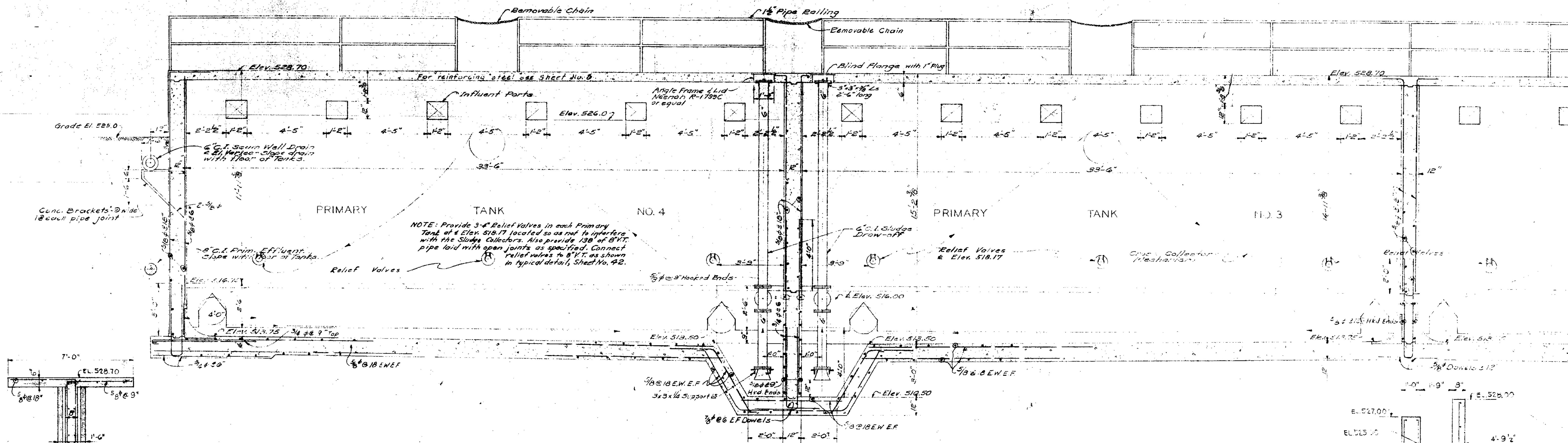


**JOLIET ILLINOIS  
SEWAGE TREATMENT PLANT**

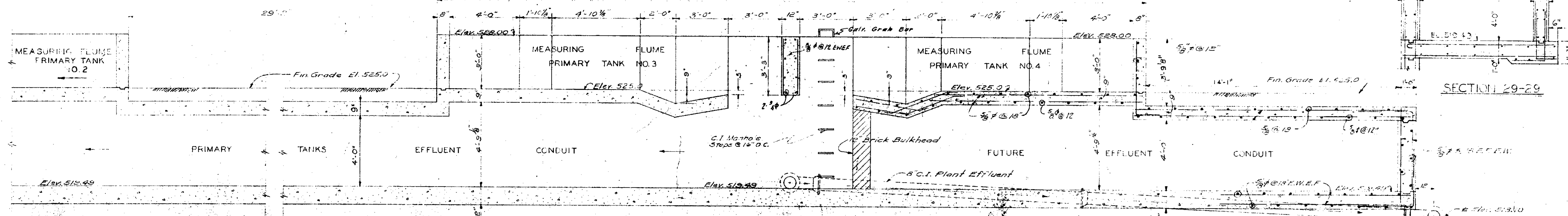
**PRIMARY TANKS - SECTIONS**

DRAWN BY: R.M.H.V.B.S.	SCALE: 3/8" = 1'	REVISIONS:
DATE: JAN. 1951	<b>CONSER, TOWNSEND &amp; ASSOCIATES</b>	REVISION:
CHECKED BY: L.F.R.		APPROVED BY: R.A.S.
APPROVED BY: R.A.S.	CONSULTING ENGINEERS	DATE: APRIL 1951
	CHICAGO, ILL.	SHEET NO. 61

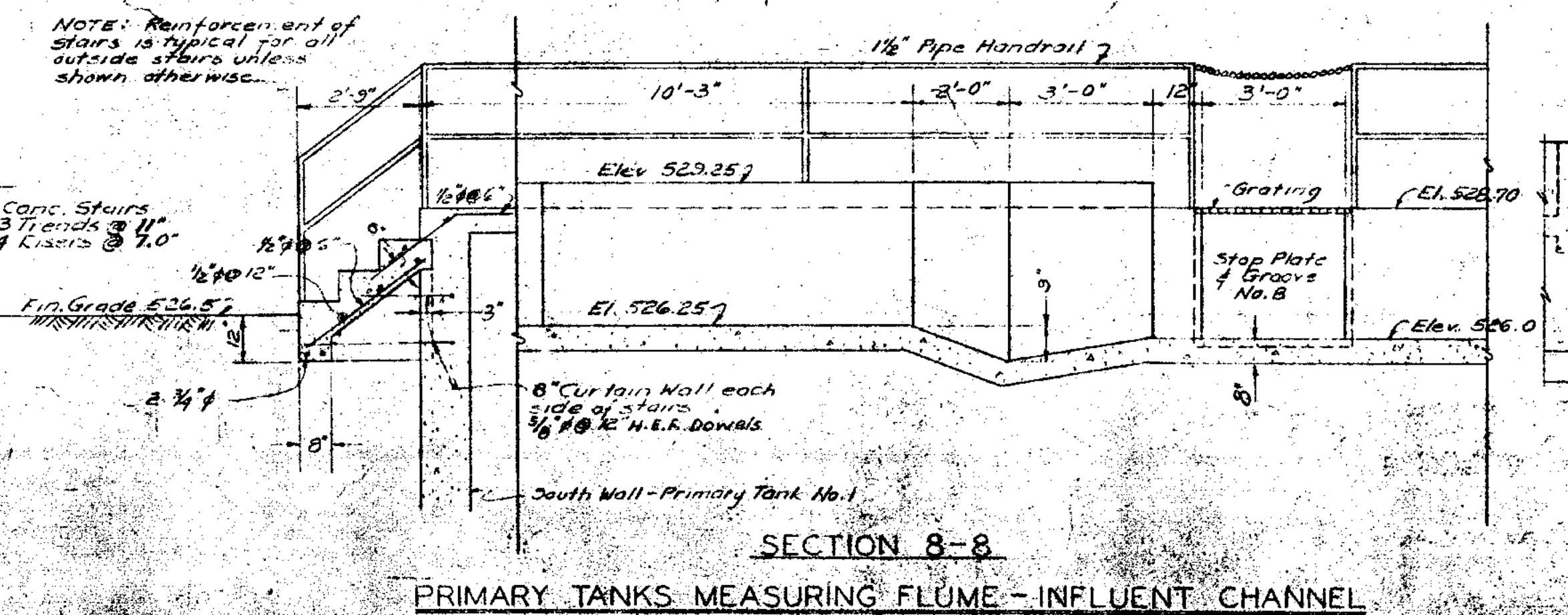




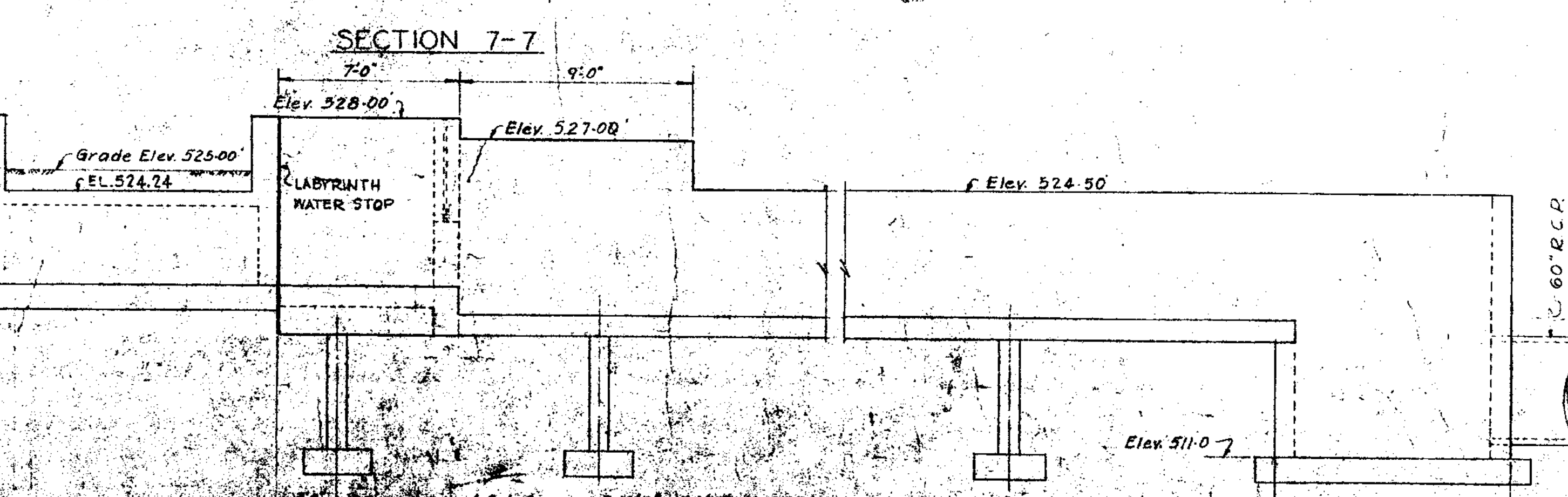
SECTION 6-6



SECTION 29-29



SECTION 8-8

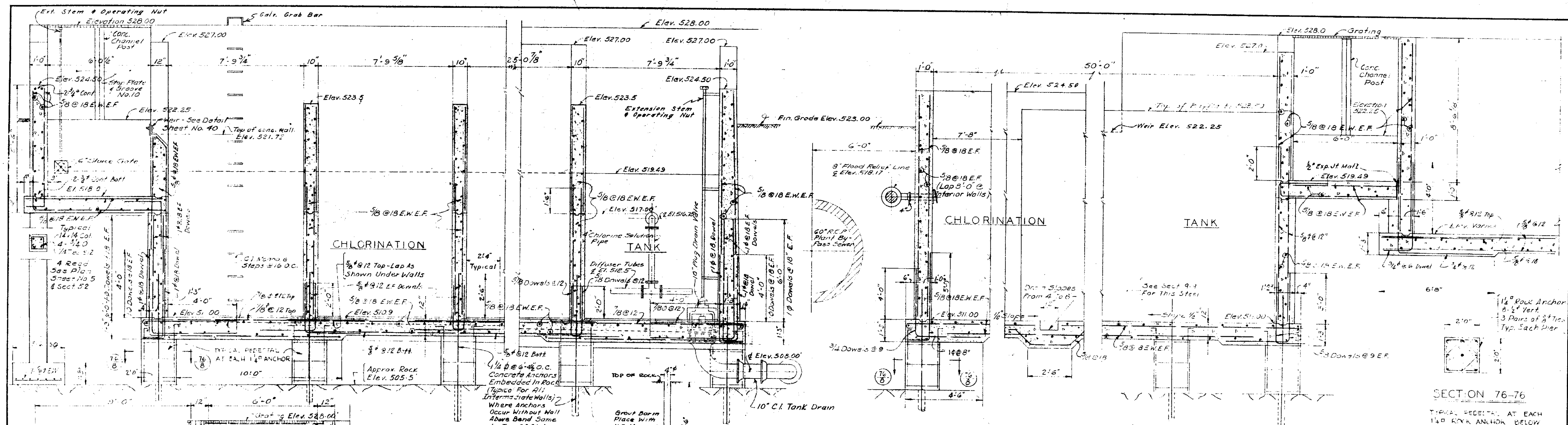


SECTION 7-7

SECTION 52-52

<b>JOLIET ILLINOIS</b> <b>SEWAGE TREATMENT PLANT</b>		
<b>PRIMARY TANKS</b> <b>SECTIONS</b>		
DRAWN BY: V.B.S. & A.M.H. DATE: JAN. 1951 CHECKED BY: L.F.R. W.S. APPROVED BY: R.A.S.	<b>CONSOER, TOWNSEND</b> <b>&amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.	SCALE: 3/8" = 1'-0" REVISIONS: APRIL 1951 SHEET NO. 2 OF 45





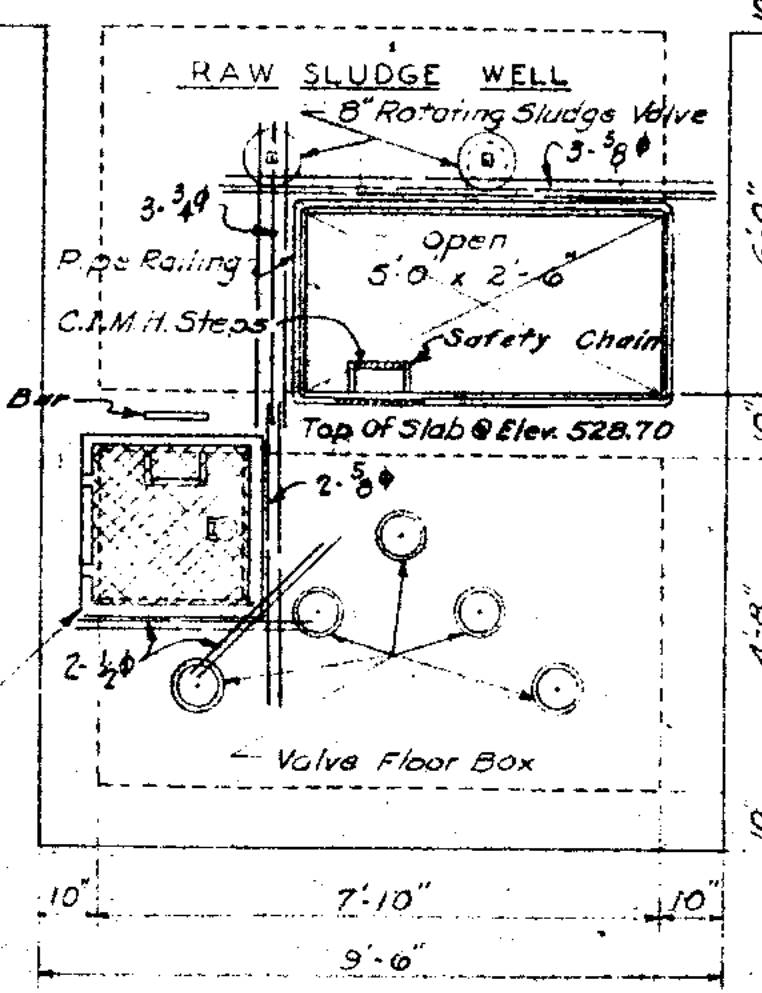
CHLORINATION TANK

CHLORINATION TANK

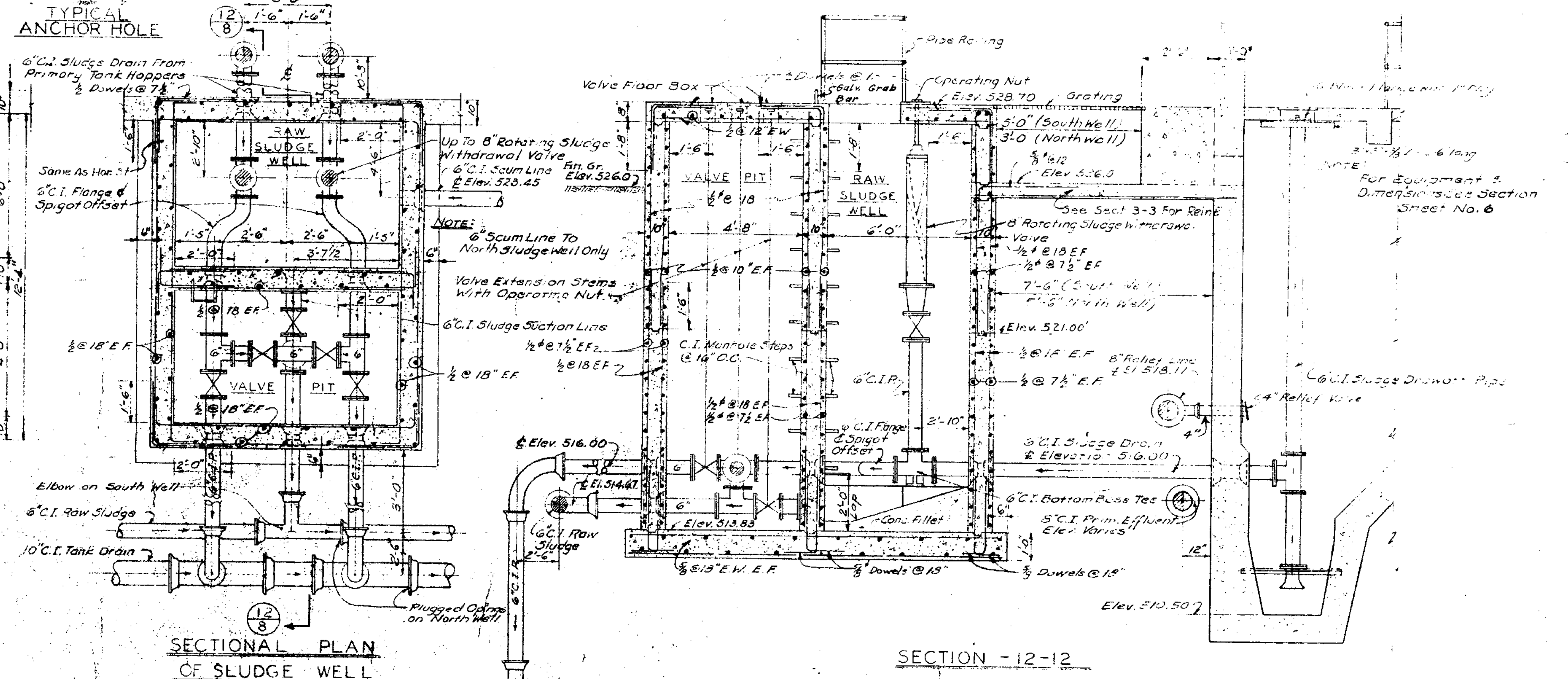
SECTION-9-9

SECTION 10-10

TYPICAL ANCHOR HOLE



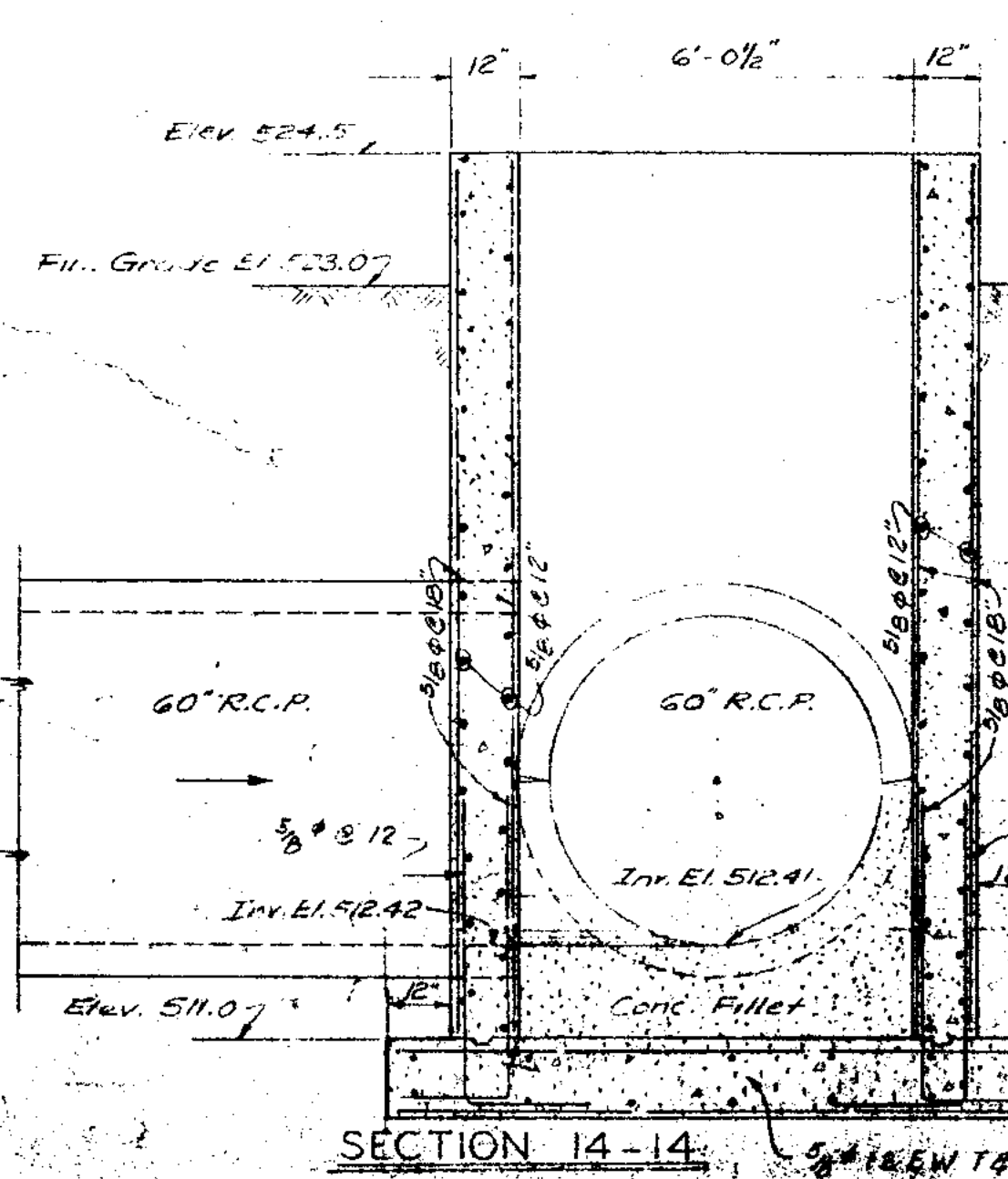
PLAN OF SLUDGE WELL ABOVE ELEV. 528.70



SECTIONAL PLAN OF SLUDGE WELL

SLUDGE WELLS

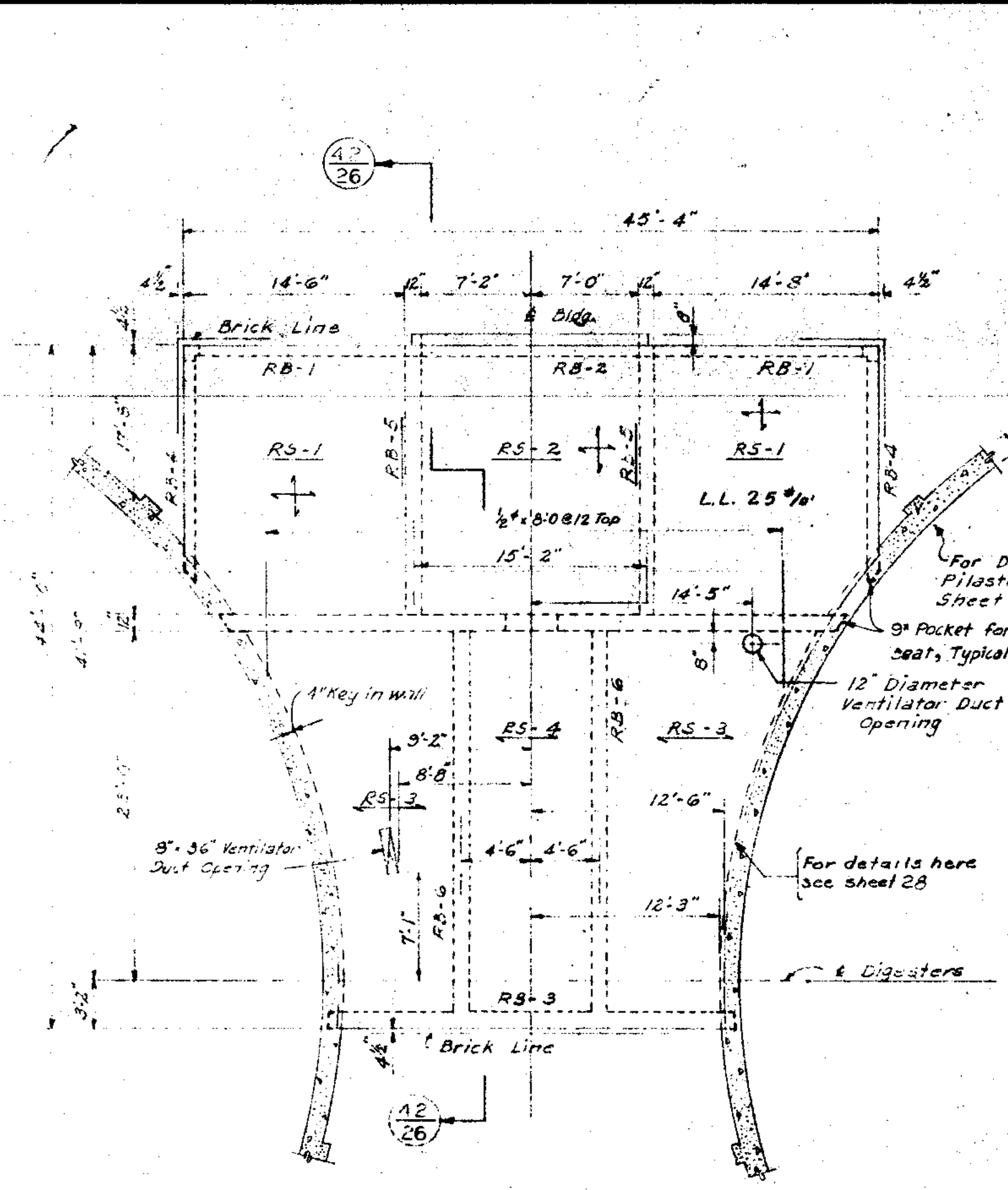
SECTION-11-11



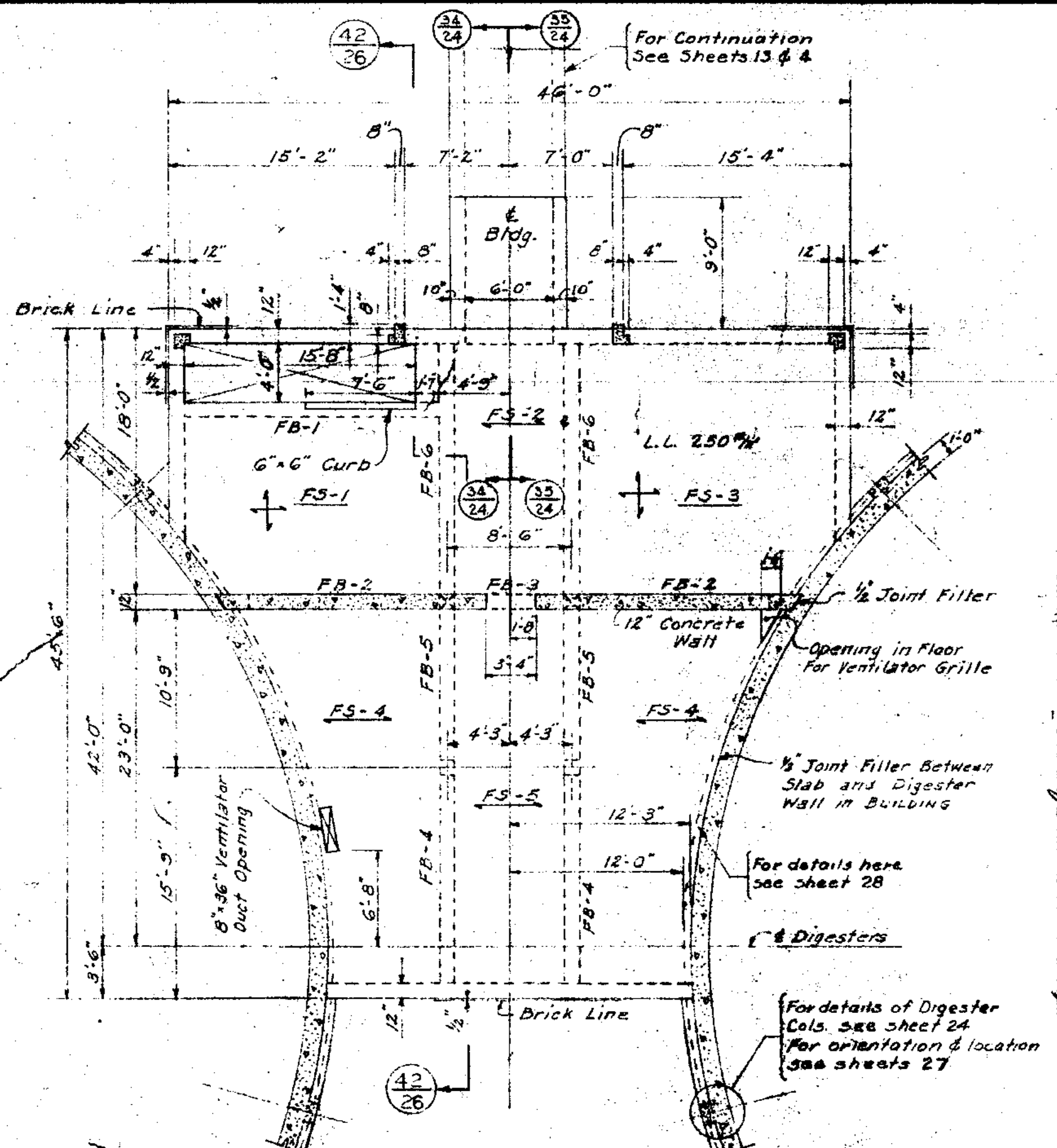
SECTION 14-14

<b>JOLIET, ILLINOIS</b> <b>SEWAGE TREATMENT PLANT</b>		
<b>CHLORINATION TANK - SECTIONS</b> <b>&amp; RAW SLUDGE WELLS</b>		
DRAWN BY: H.F.K. DATE: Jan. 1957 CHECKED BY: L.F.R. W.S. APPROVED BY: R.A.S.	<b>CONSOER, TOWNSEND</b> <b>&amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.	SCALE: 3/8" = 1'-0" REVISED: APRIL 1954 SHEET NO. 8 OF 45 SHEETS

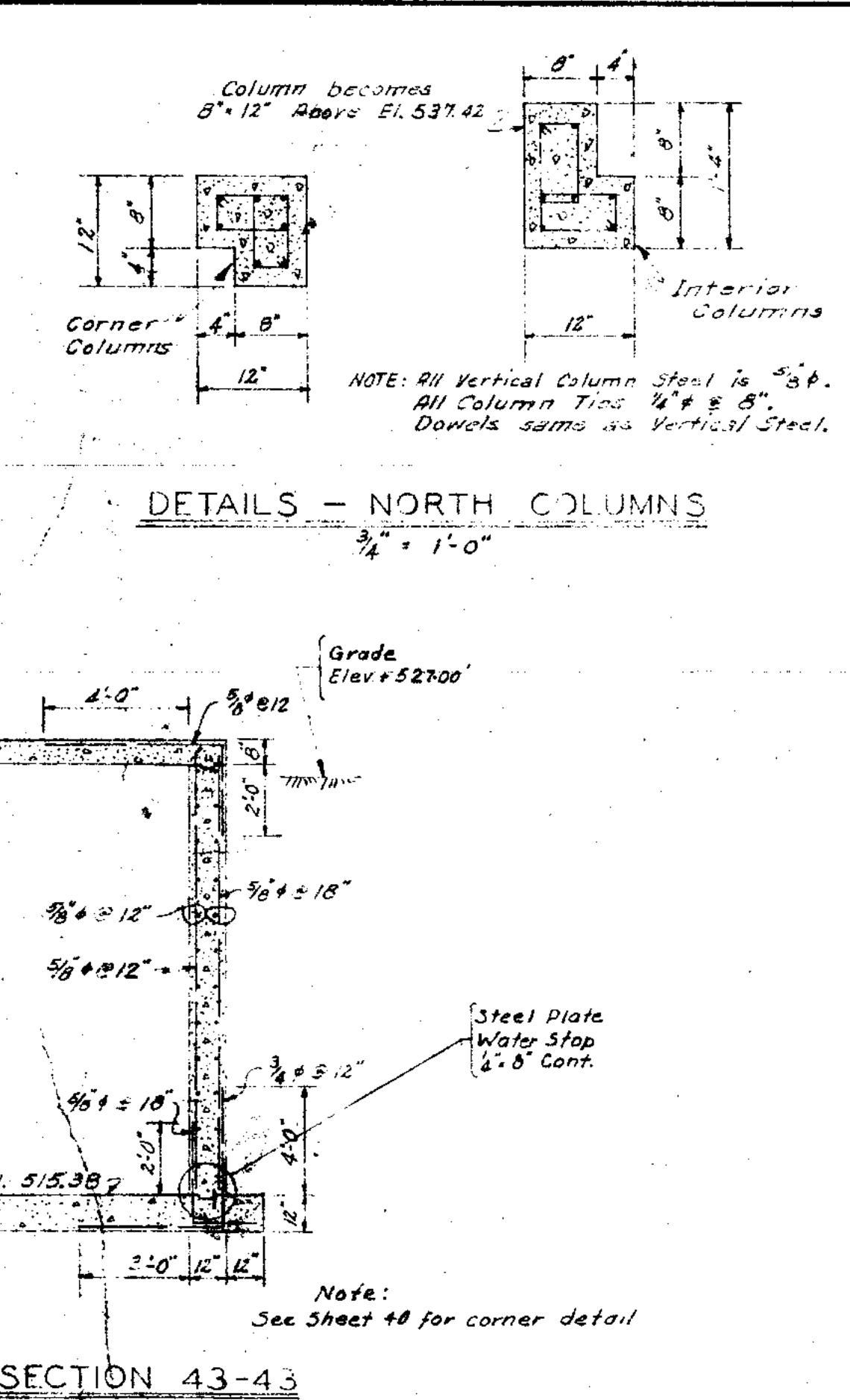




ROOF FRAMING PLAN - ELEV. 541.38  
1/8" = 1'-0"



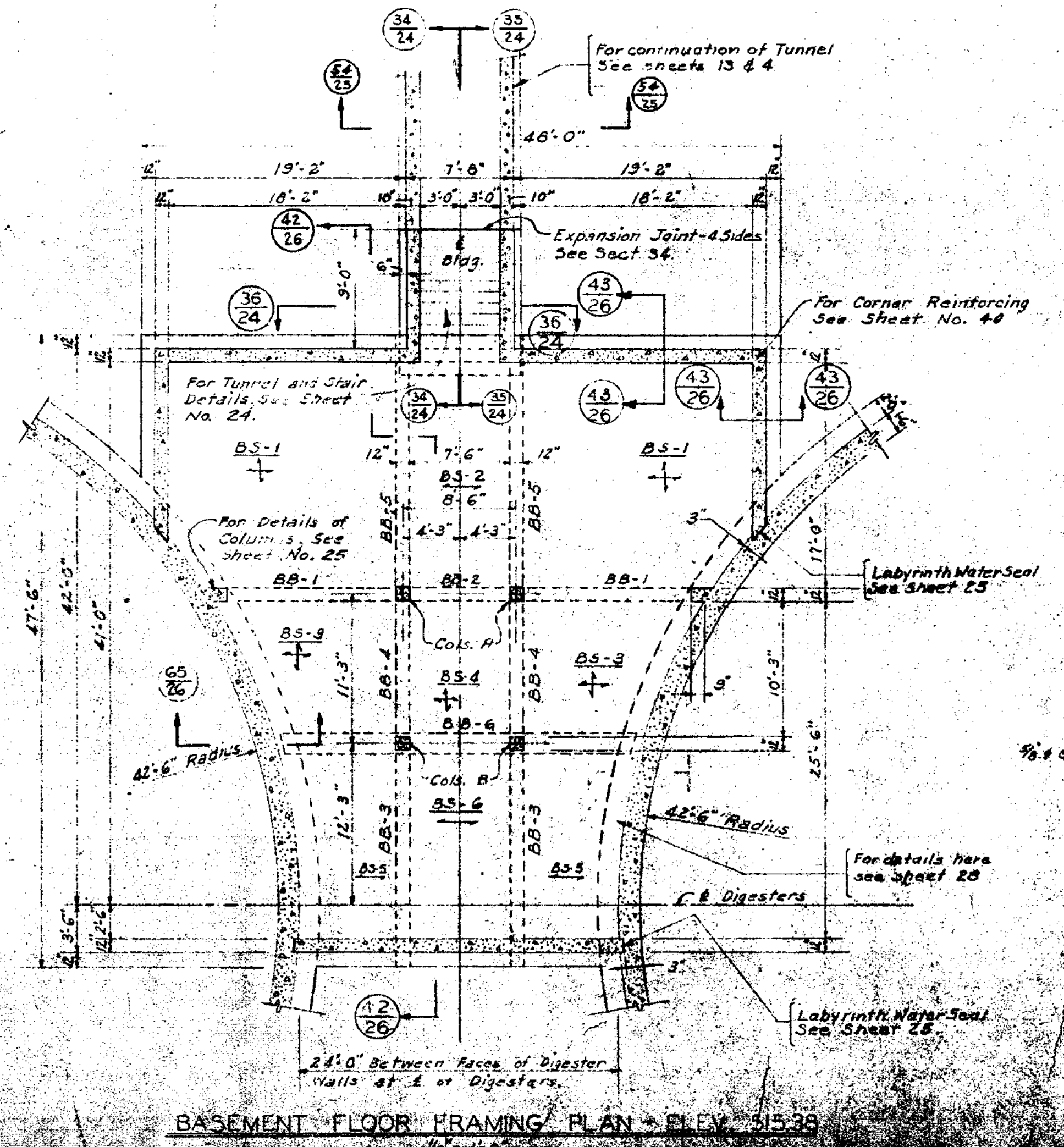
GRADE FLOOR FRAMING PLAN - ELEV. 528.00  
1/8" = 1'-0"



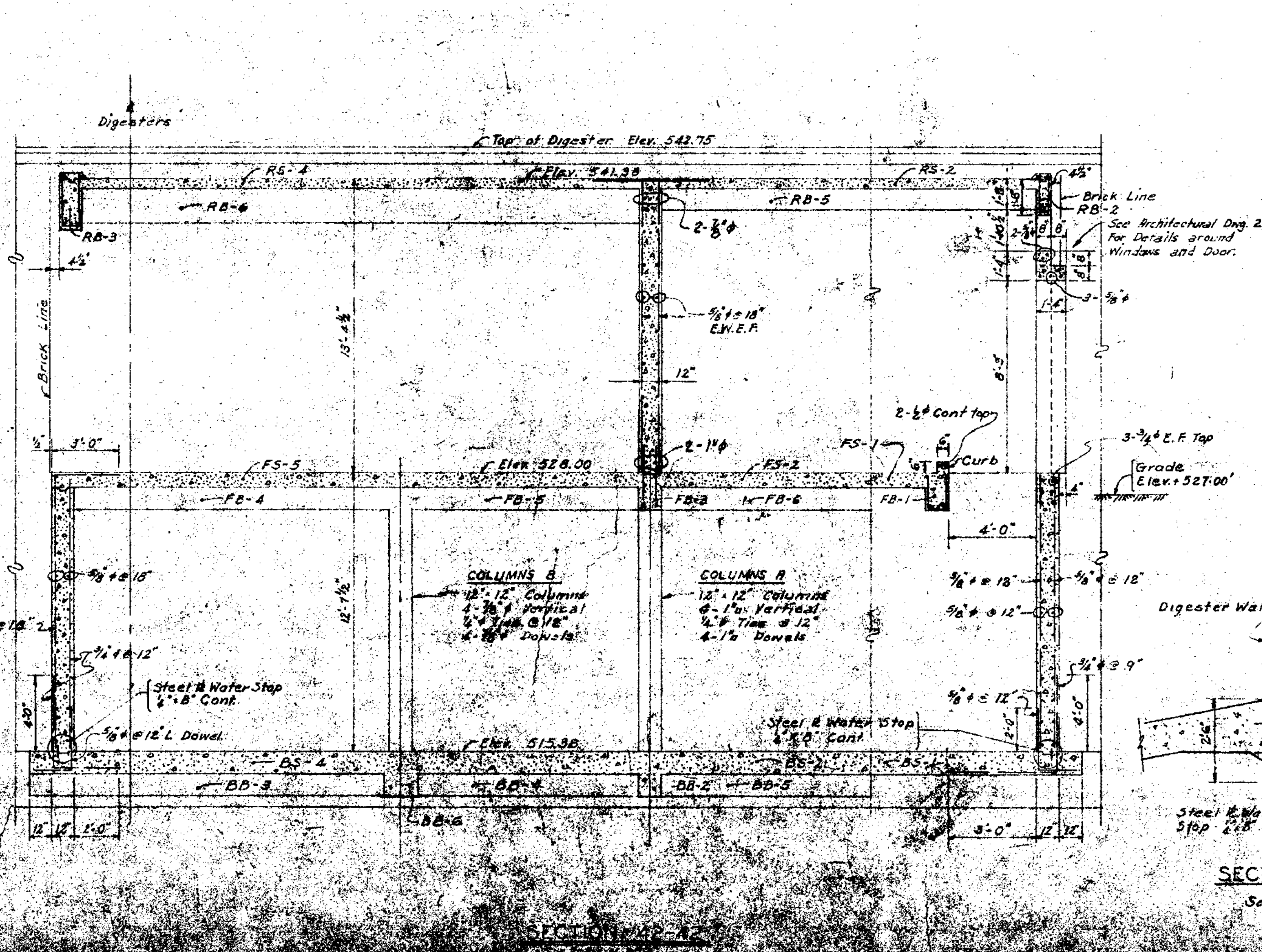
SECTION 43-43  
1/4" = 1'-0"

BEAM SCHEDULE									
MARK	SIZE		LONG. REIN. STR.	TOP STR.	STRUTS	NO. SIZE	SPACING EACH END FROM FACE OF SUPPORT	REMARKS	REMARKS
	W	D							
RB-1	8	20	2	3/4"	2	3/4"	8/16 Full Length		
RB-2	8	20	2	3/4"	2	3/4"	8/16 Full Length		
RB-3	12	27	4	1/2"	4	3/8"	6/12 7:5/8		
RB-4	8	20	2	3/4"	2	3/4"	8/16 Full Length		
RB-5	12	17	2	1/2"	2	3/8"	3:5/8		
RB-6	12	14	2	1/2"	2	3/8"	3:5/8		
FS-1	12	20	2	1/2"	2	3/8"	3:5/8		
FS-2	12	20	3	3/4"	2	3/4"	3:5/8		
FS-3	12	20	2	3/4"	2	3/8"	3:5/8		
FS-4	12	20	2	1/2"	2	3/8"	3:5/8		
FS-5	12	20	2	3/4"	2	3/8"	3:5/8		
FS-6	12	20	2	1/2"	2	3/8"	3:5/8		
BS-1	12	18	2	3/4"	3	3/4"	4:8		
BS-2	12	18	2	3/4"	2	3/4"	4:8		
BS-3	12	23	2	1/2"	2	3/8"	3:5/8		
BS-4	12	21	2	1/2"	2	3/8"	3:5/8		
BS-5	12	24	4	3/4"	4	3/8"	3:5/8		
BS-6	18	24	3	1/2"	7	1/2"	10:3/8	2:5/8, 7:11	

NOTES: - Lap top steel 4'-0" over supports in slabs BS-1, BS-2, BS-3, BS-4, BS-5



BASEMENT FLOOR FRAMING PLAN - ELEV. 515.38  
1/8" = 1'-0"



SECTION 65-65  
Scale: 3/8" = 1'-0"

SLAB SCHEDULE					
MARK	DEPTH	DIREC.	SIZE & SPACING		REMARKS
			BOTTOM STEEL	TOP STEEL	
RS-1	5"	EACH WAY	1/2" # 3 @ 12" A/B	1/2" # 3 @ 12" A/B	
RS-2	5"	"	1/2" # 3 @ 12" A/B	1/2" # 3 @ 12" A/B	
RS-3	5"	"	3/4" # 4 @ 10" A/B	3/4" # 4 @ 10" A/B	1/2" # 12" Temp.
RS-4	5"	"	3/4" # 4 @ 10" A/B	3/4" # 4 @ 10" A/B	"
FS-1	8"	Long Short	3/4" # 4 @ 12" A/B	3/4" # 4 @ 12" A/B	Add 3/4" # 4 @ 12" over FB-2
FS-2	8"	"	3/4" # 4 @ 12" A/B	3/4" # 4 @ 12" A/B	3/4" # 4 @ 12" extend to 1/4" in FS-1
FS-3	8"	EACH WAY	3/4" # 4 @ 12" A/B	3/4" # 4 @ 12" A/B	Add 3/4" # 4 @ 12" over FB-2
FS-4	8"	"	3/4" # 4 @ 12" A/B	3/4" # 4 @ 12" A/B	"
FS-5	8"	"	3/4" # 4 @ 12" A/B	3/4" # 4 @ 12" A/B	3/4" # 4 @ 12" extend to 1/4" in FS-1
BS-1	12"	EACH WAY	3/4" # 4 @ 12"	3/4" # 4 @ 12"	Extend steel to 1/4" Ph Adj. Spans
BS-2	12"	"	3/4" # 4 @ 12"	3/4" # 4 @ 12"	3/4" # 4 @ 12" Temp.
BS-3	12"	EACH WAY	3/4" # 4 @ 12"	3/4" # 4 @ 12"	Extend steel to 1/4" Ph Adj. Spans
BS-4	12"	EACH WAY	3/4" # 4 @ 12"	3/4" # 4 @ 12"	"
BS-5	12"	EACH WAY	3/4" # 4 @ 12"	3/4" # 4 @ 12"	Extend steel to 1/4" Ph BS-6
BS-6	12"	"	3/4" # 4 @ 12"	3/4" # 4 @ 12"	Extend steel to 1/4" Ph BS-5

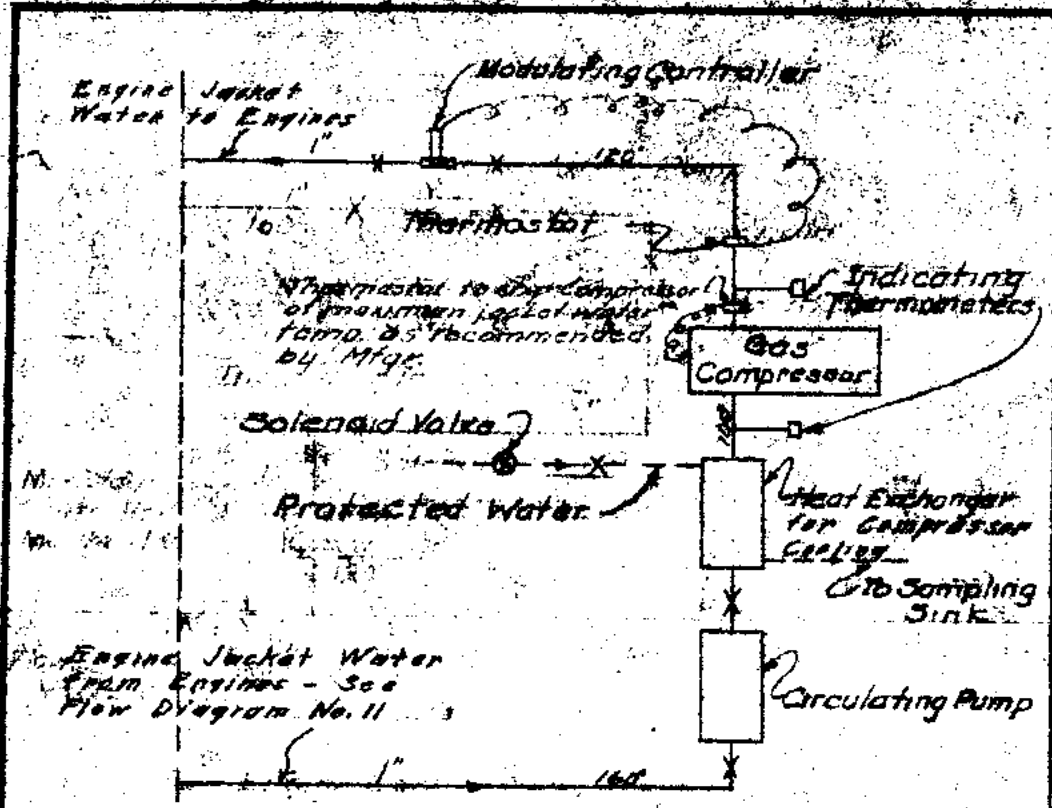
NOTE: LAP TOP STEEL 4'-0" OVER SUPPORTS IN SLABS BS-1, BS-2, BS-3, BS-4

GENERAL NOTES:  
For General Construction Notes, See Sheet No. 3.  
For Typical Column Details, See Sheet No. 16.  
For Typical Beam and Slab Details, See Sheet No. 16.  
For Additional Structural Details See Sheets No. 24 & 25.

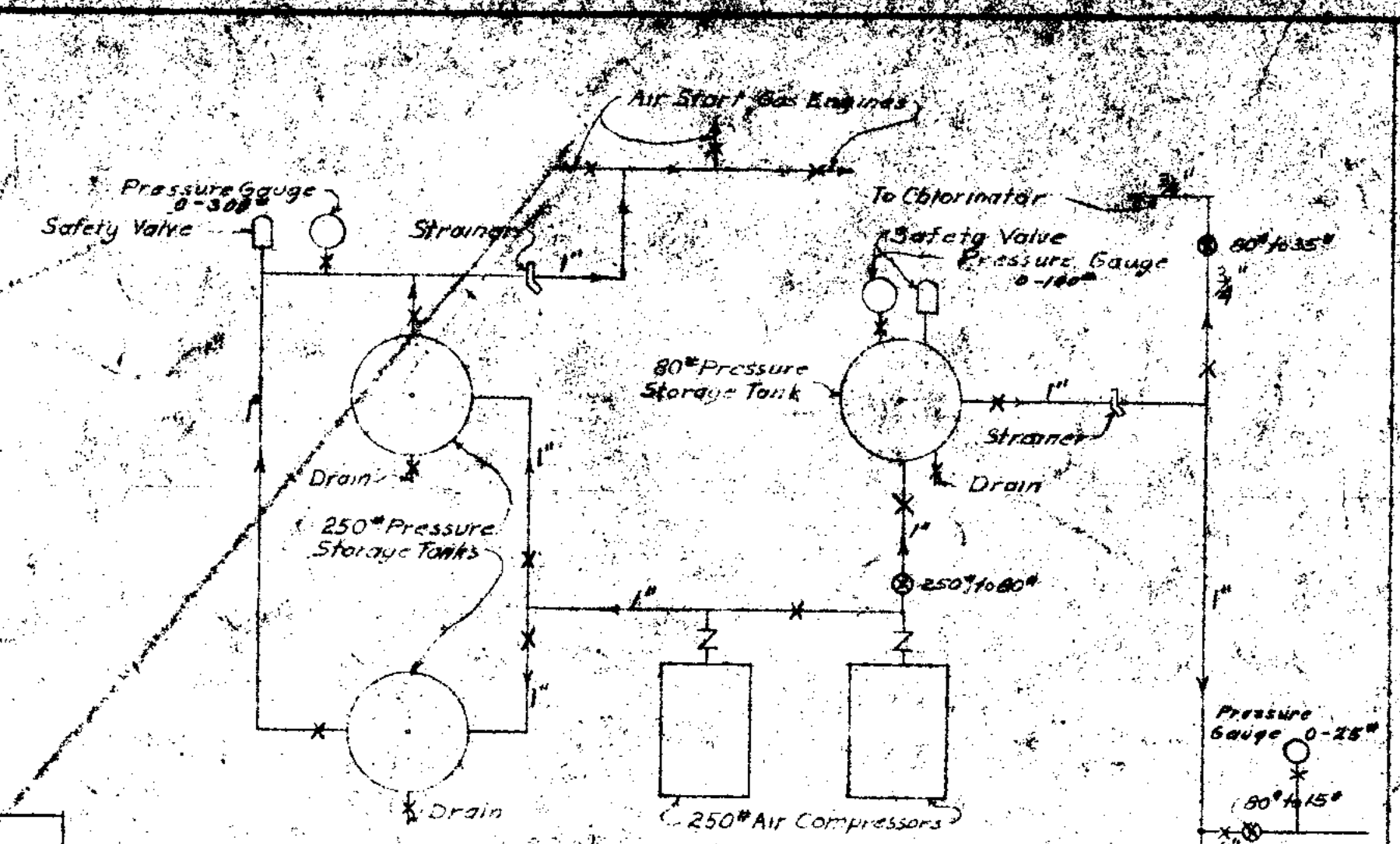
JOLIET, ILLINOIS  
SEWAGE TREATMENT PLANT  
DIGESTER CONTROL BUILDING  
STRUCTURAL

DRAWN BY: C.W.	CONSOER, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS CHICAGO, ILL.	SCALE: As Noted	
DATE: Jan. 1951		REVISED:	
CHECKED BY: W.S. & L.A.D.		APPROVED BY: E.A.S.	APPROVED: 1/26/51
APPROVED BY: E.A.S.		SHEET NO. 26	TOTAL SHEETS 45

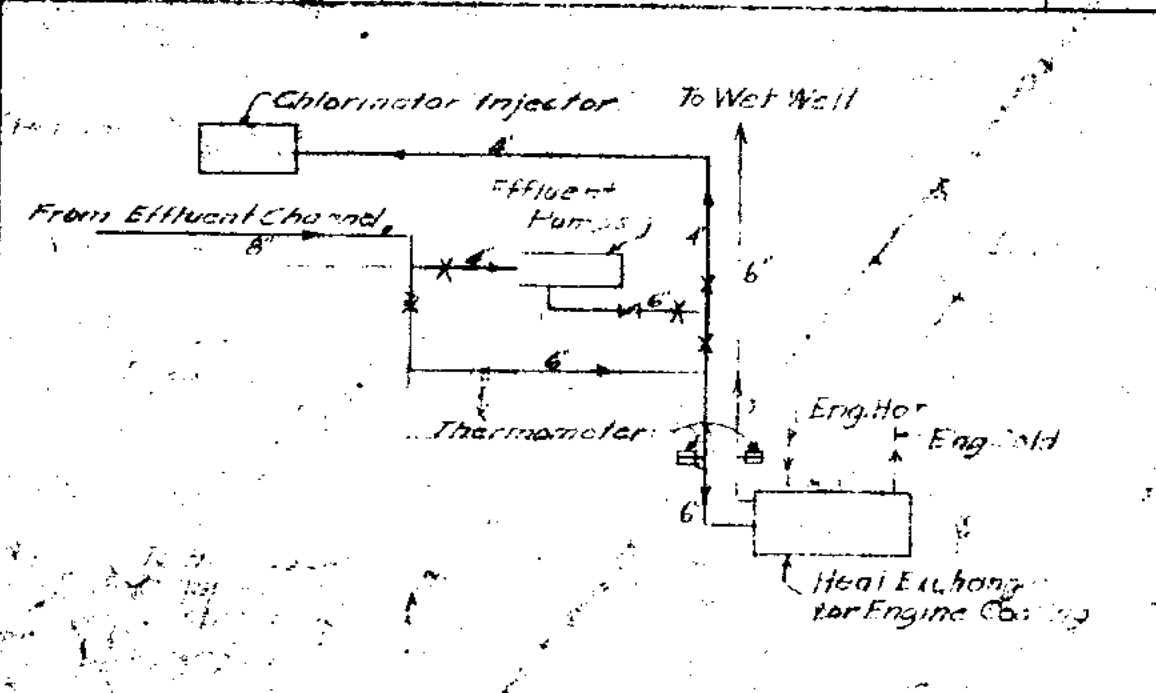




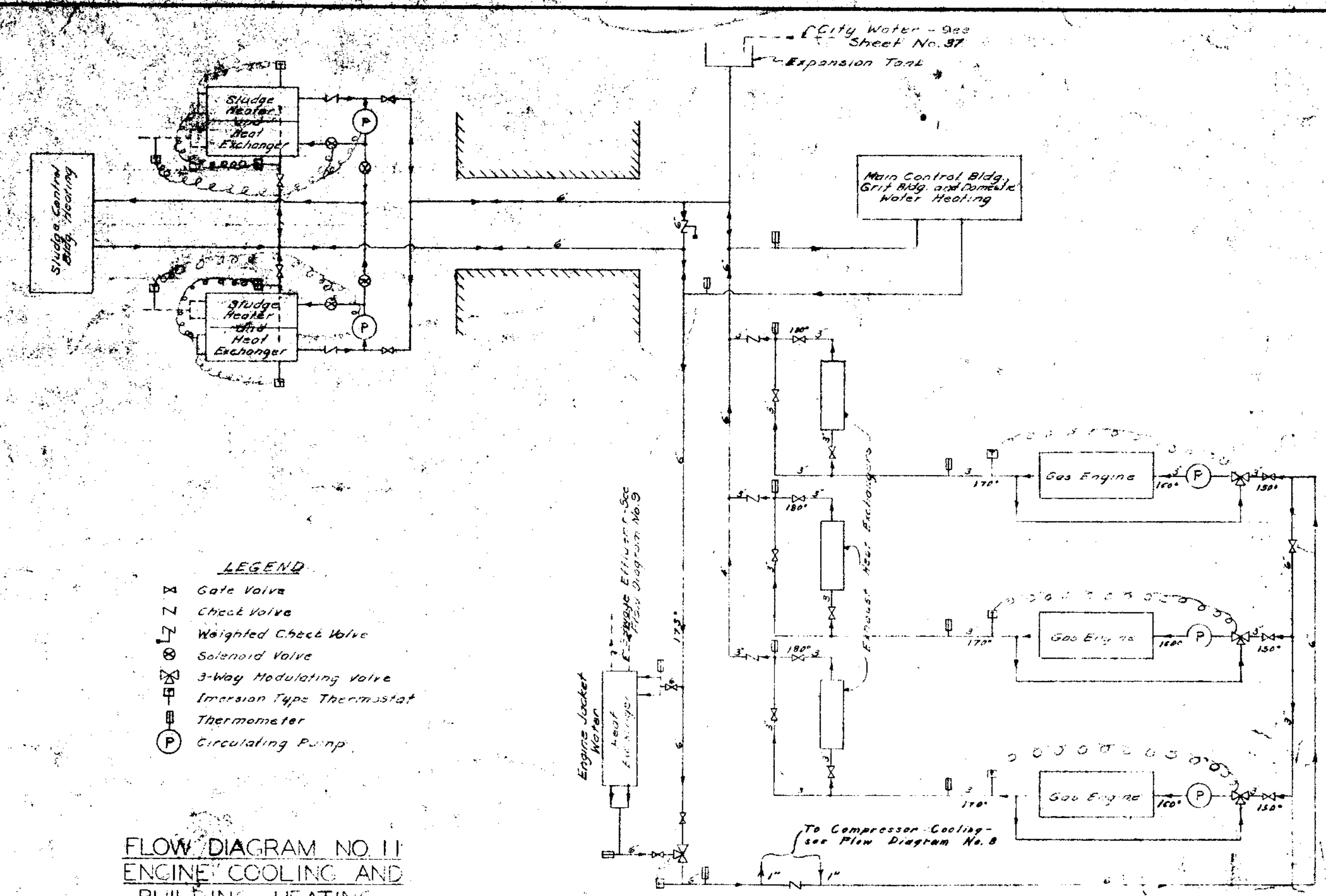
FLOW DIAGRAM NO. 8  
GAS COMPRESSOR COOLING



FLOW DIAGRAM NO. 10  
COMPRESSED AIR

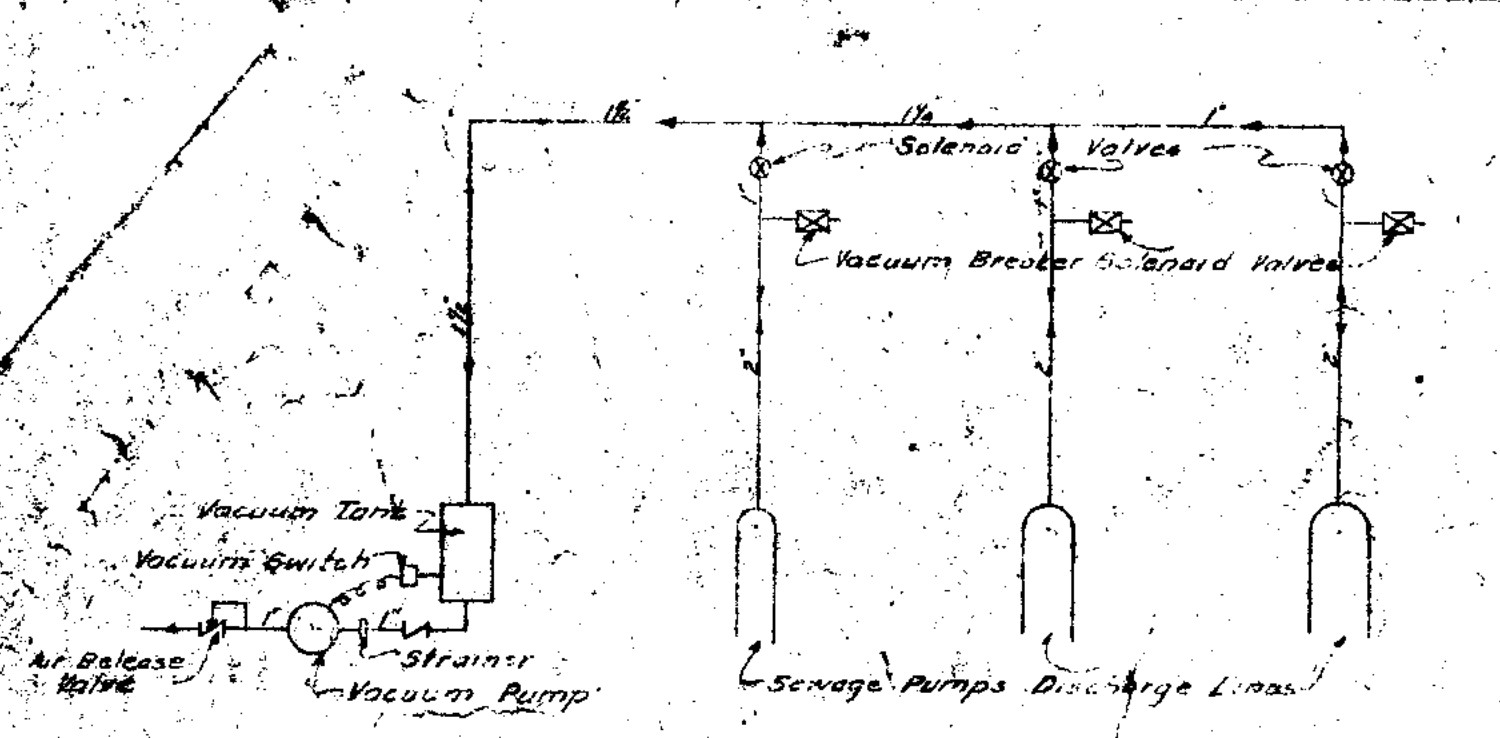


FLOW DIAGRAM NO. 9  
SEWAGE EFFLUENT

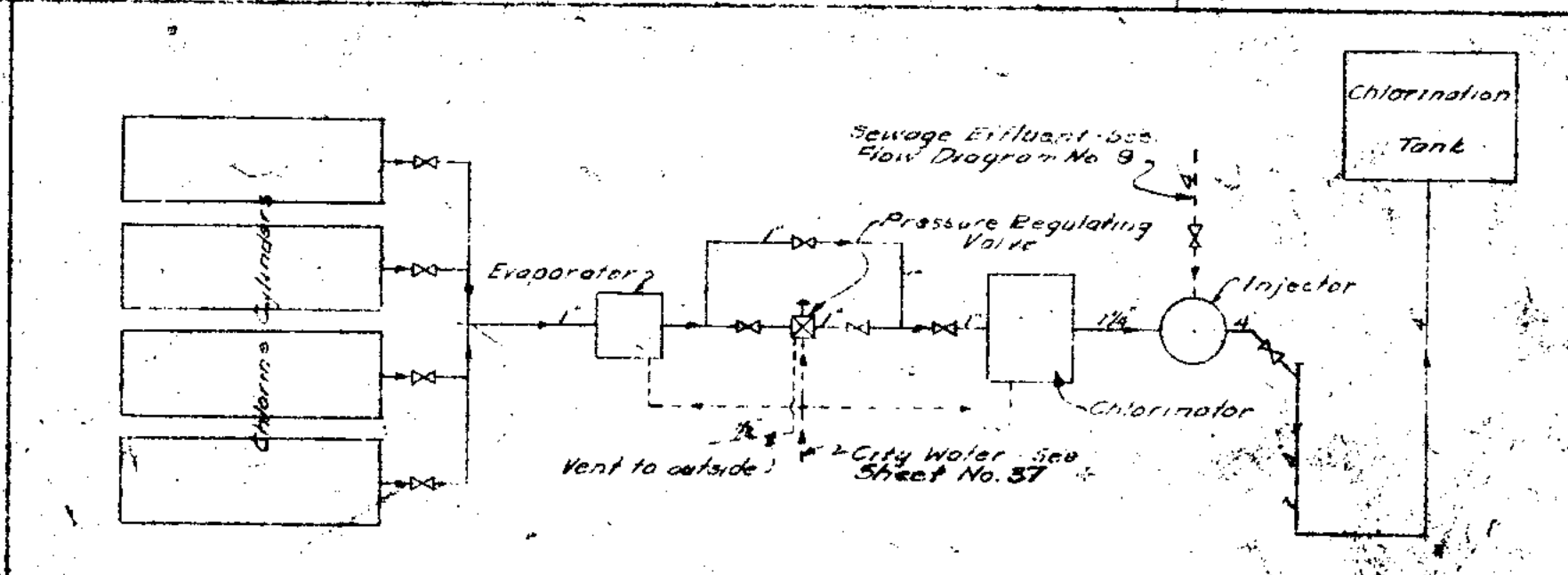


FLOW DIAGRAM NO. 11  
ENGINE COOLING AND  
BUILDING HEATING

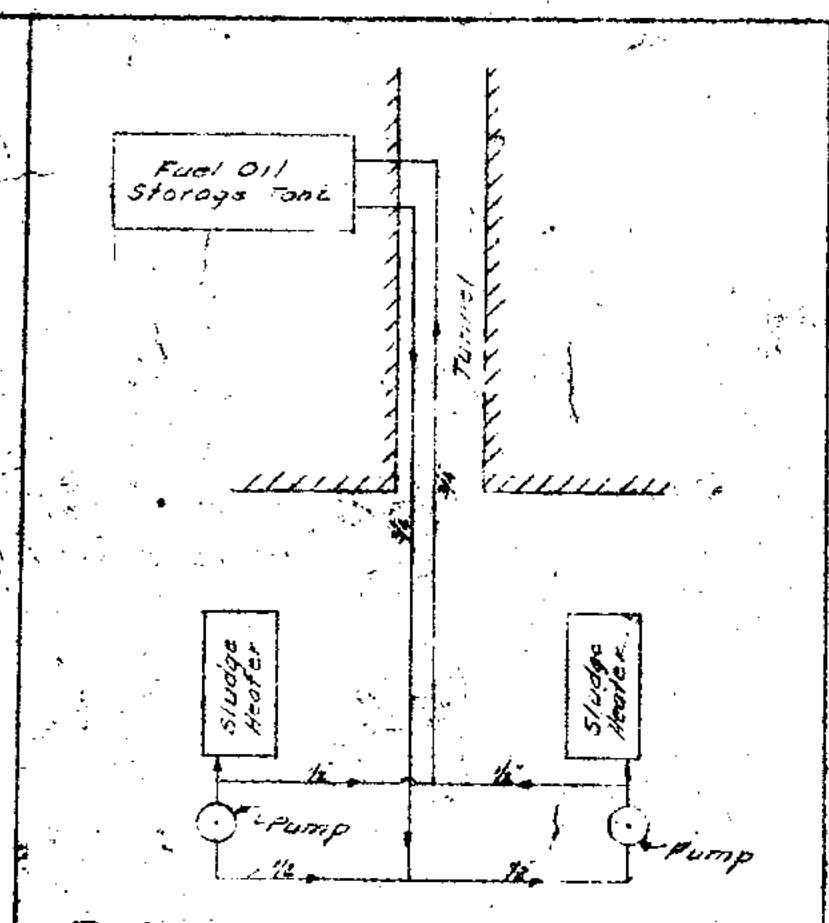
- LEGEND
- ⌘ Gate Valve
  - ⌘ Check Valve
  - ⌘ Weighted Check Valve
  - ⌘ Solenoid Valve
  - ⌘ 3-Way Modulating Valve
  - ⌘ Immersion Type Thermostat
  - ⌘ Thermometer
  - ⌘ Circulating Pump



FLOW DIAGRAM NO. 12  
VACUUM



FLOW DIAGRAM NO. 13  
CHLORINE



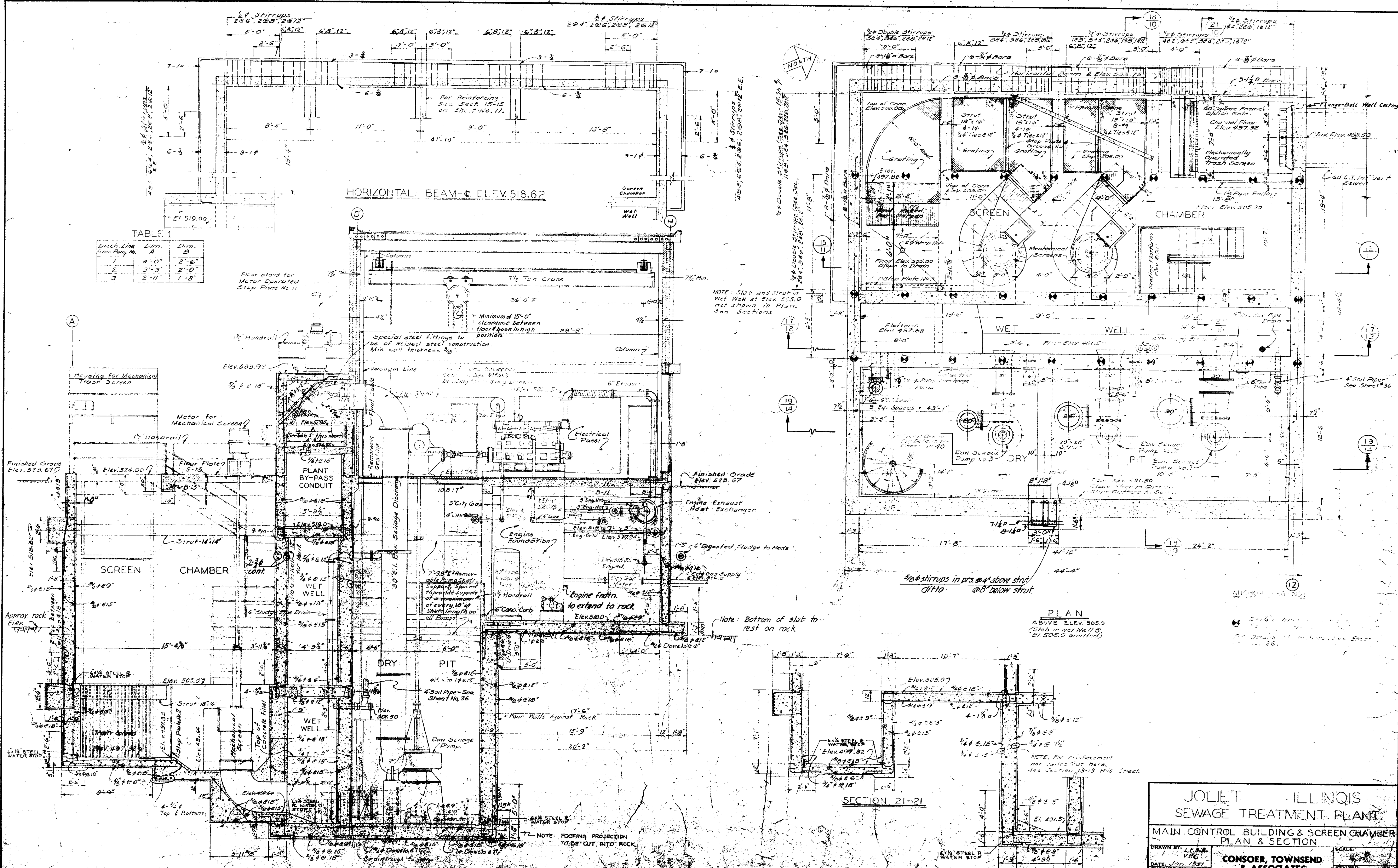
FLOW DIAGRAM NO. 14  
FUEL OIL

JOLIET ILLINOIS SEWAGE TREATMENT PLANT	
FLOW DIAGRAMS	
DRAWN BY: V.B.G. DATE: July 1954 CHECKED BY: L.E.E. APPROVED BY: M.P.S.	SCALE: As Shown SHEET NO.: 1 of 1 <b>CONSOER, TOWNSEND &amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.



TABLE 1

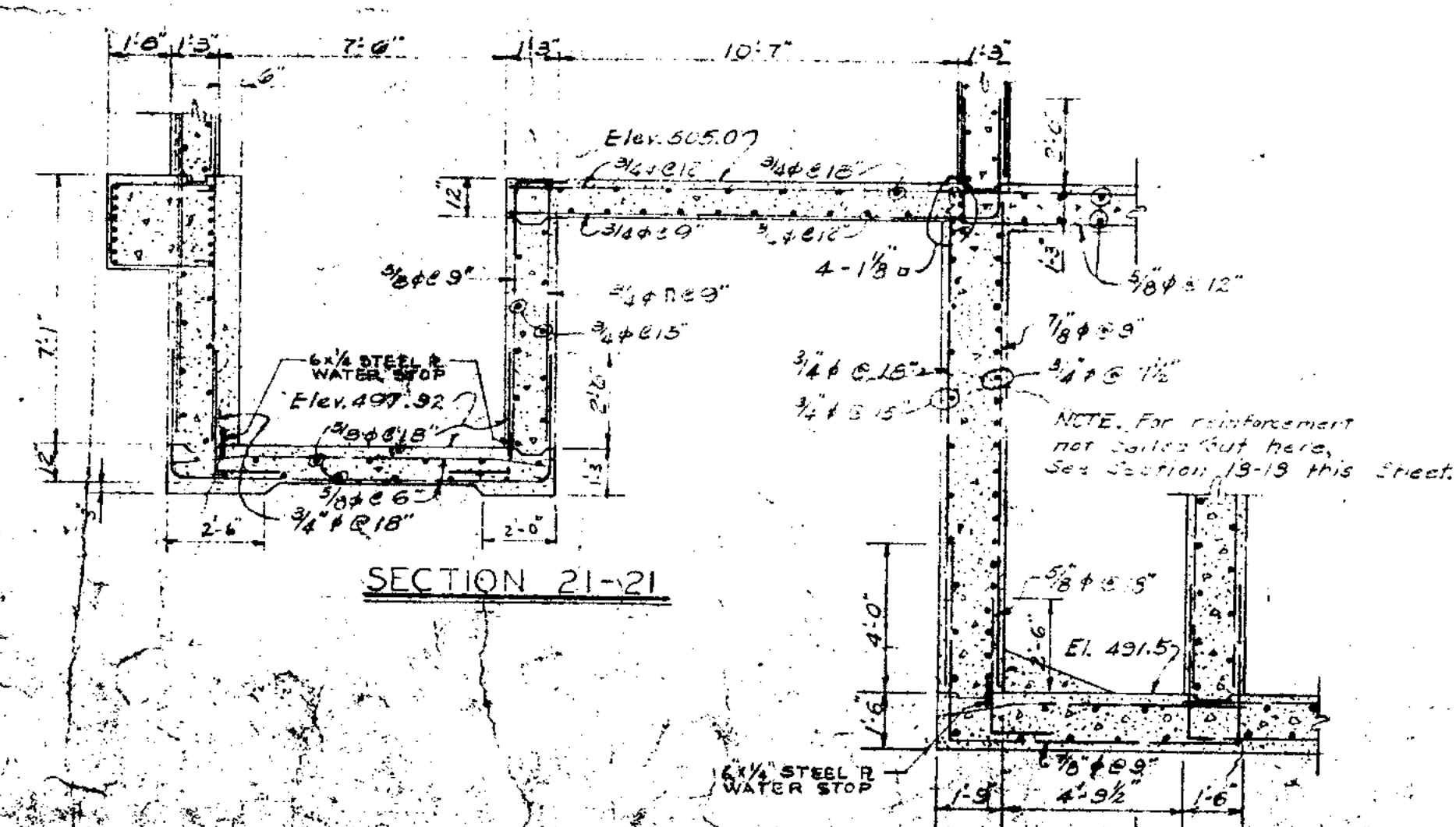
Dim. A	Dim. B
4'-0"	2'-6"
3'-3"	2'-0"
2'-11"	1'-8"



NOTE: Slab and strut in Wet Well at Elev. 505.0 not shown in Plan. See Sections

Note: Bottom of slab to rest on rock

PLAN ABOVE ELEV. 505.0 (Slab in Wet Well at Elev. 505.0 omitted)



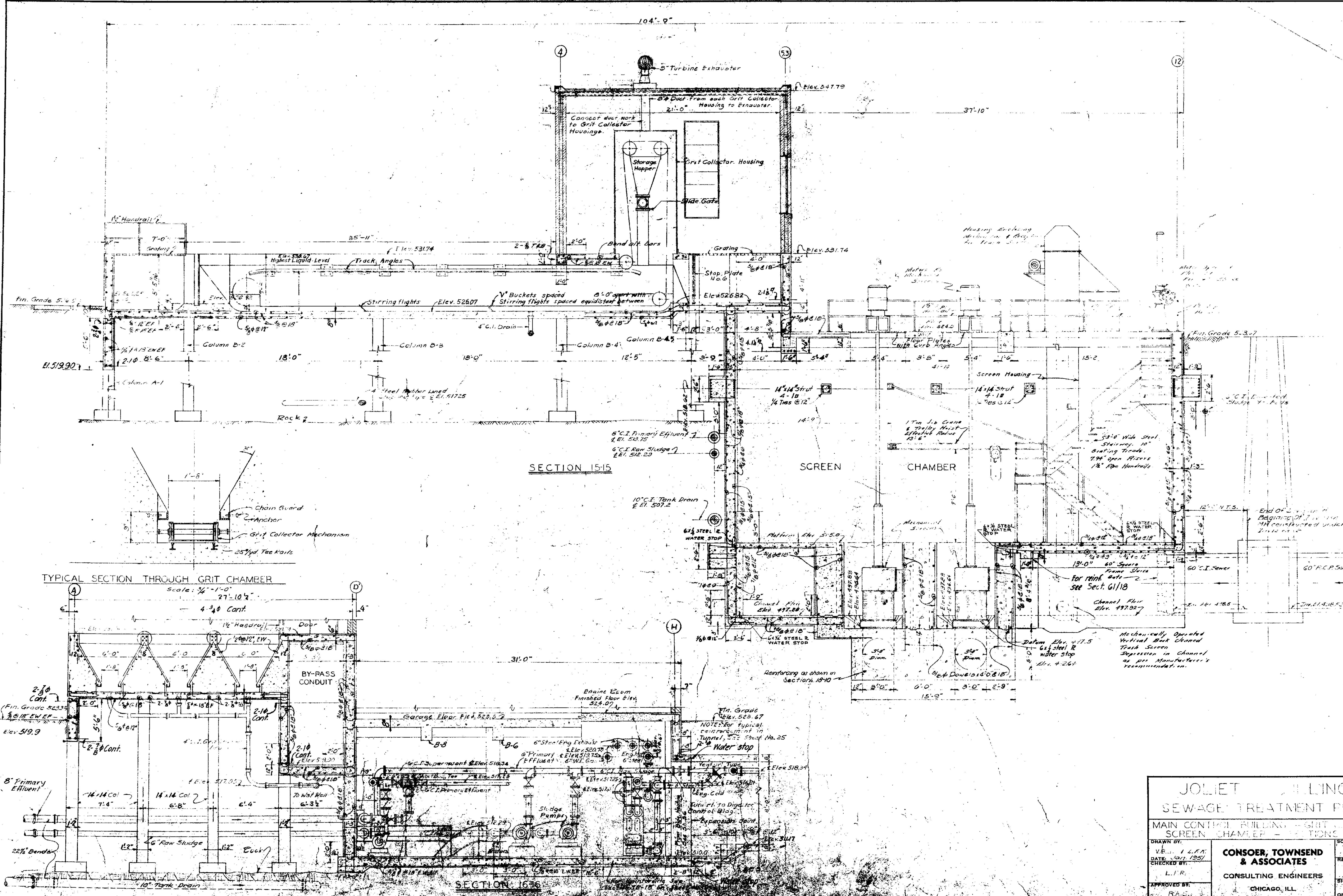
NOTE: For reinforcement not shown here, see Section 18-18 this sheet.

**JOLIET ILLINOIS  
SEWAGE TREATMENT PLANT**

**MAIN CONTROL BUILDING & SCREEN CHAMBER  
PLAN & SECTION**

DRAWN BY: L.E.A. V.B.C.	<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b>	SCALE: 1/8" = 1'-0"
DATE: JAN. 1951	<b>CONSULTING ENGINEERS</b>	REVISIONS:
CHECKED BY: L.F.P.		APPROVED BY: R.S.S.
CHICAGO, ILL.		APRIL 1951 SHEET NO. 26





SECTION 15-15

SCREEN CHAMBER

TYPICAL SECTION THROUGH GRIT CHAMBER

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

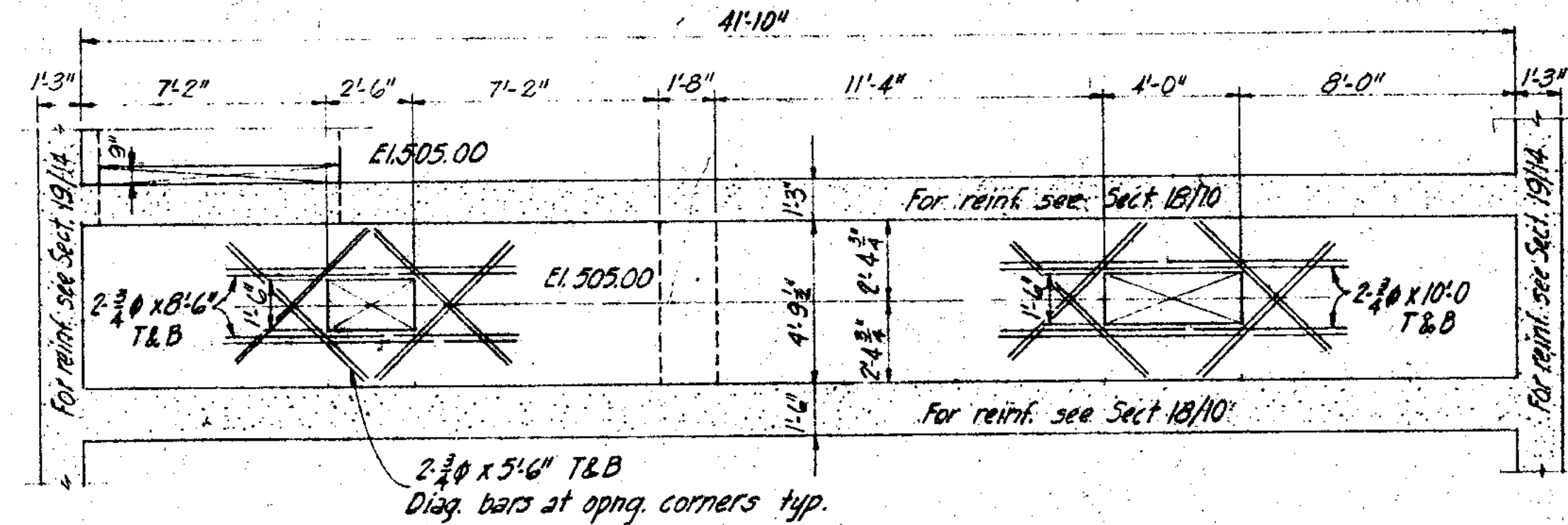
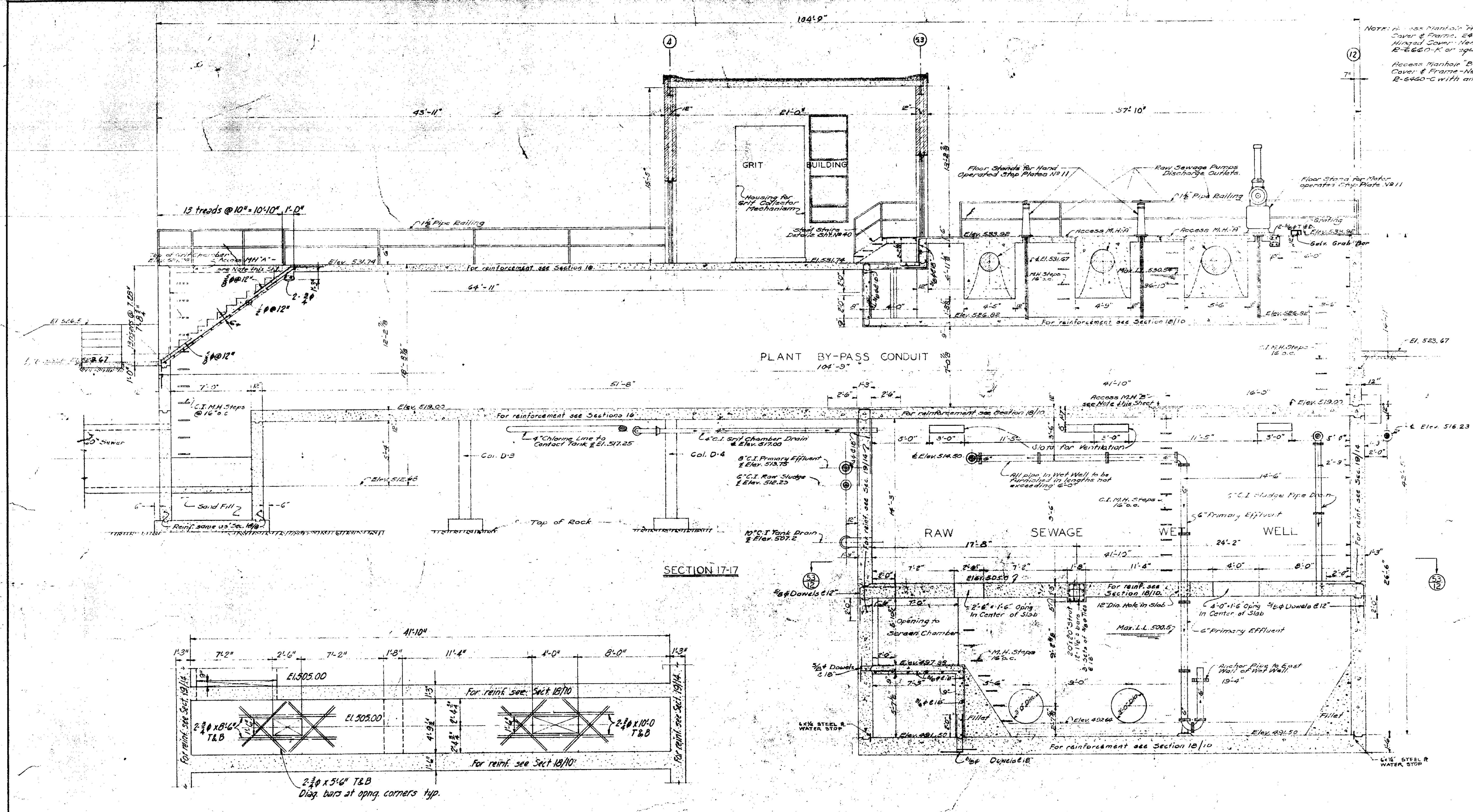
SECTION 16-16

JOLIET ILLINOIS  
SEWAGE TREATMENT PLANT  
MAIN CONTROL BUILDING - GRIT CHAMBER &  
SCREEN CHAMBER - 2 TONS

DRAWN BY: V.B. I.L.F.A.	SCALE: 1/4" = 1'
CHECKED BY: L.I.R.	REVISIONS: April 1954 Sheet No. 11 of 45
APPROVED BY: R.A.S.	CONSOER, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS CHICAGO, ILL.



NOTE: 1. Use Manhole "A" - Light Duty M.H. Cover & Frame - 24" x 24" Clear Opening, Hinged Cover - Neenah Paly. Co. B-660-K or equal.  
 2. Use Manhole "B" - Water Tight M.H. Cover & Frame - Neenah Paly. Co. B-6460-C with anchor ring, or equal.

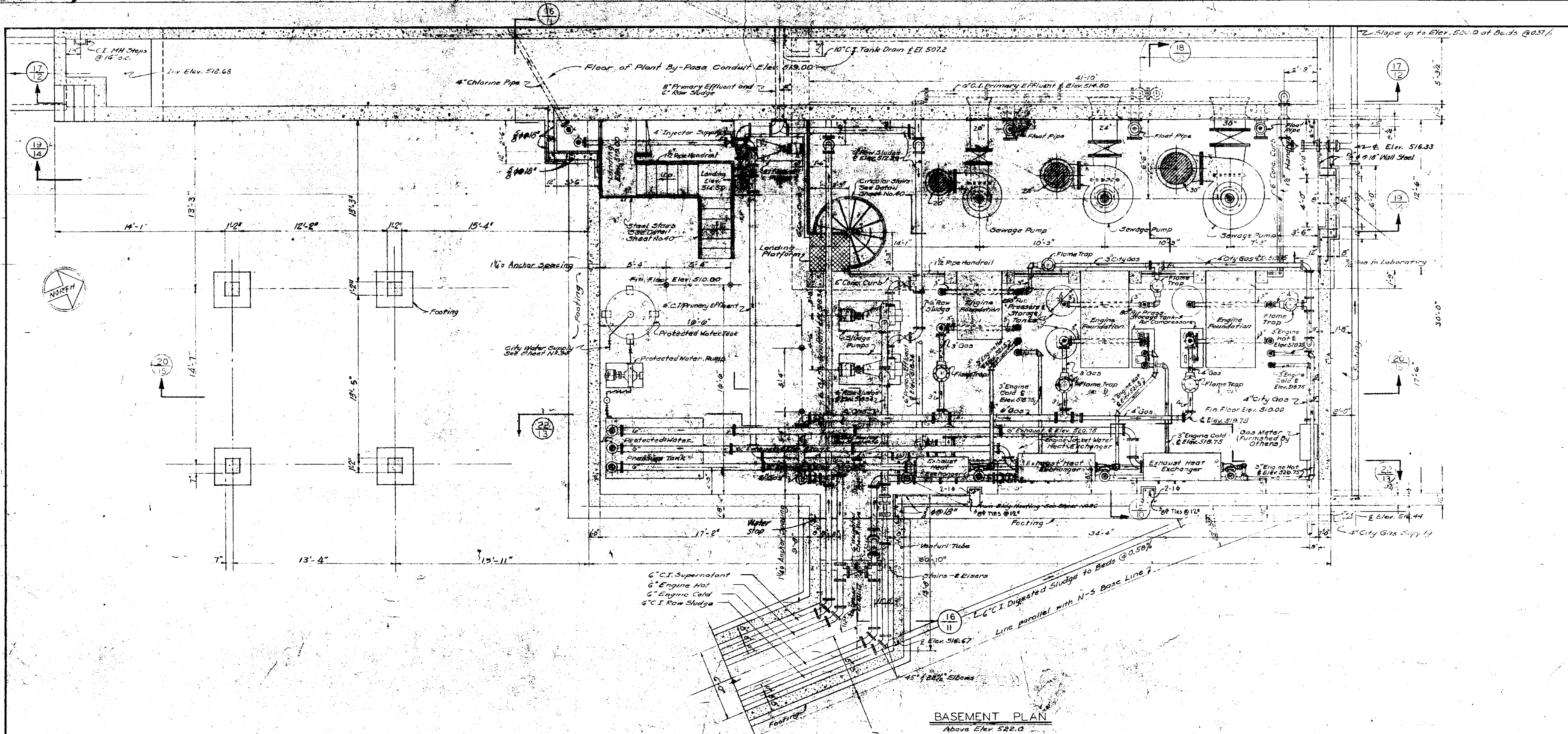


SECTION 17-17

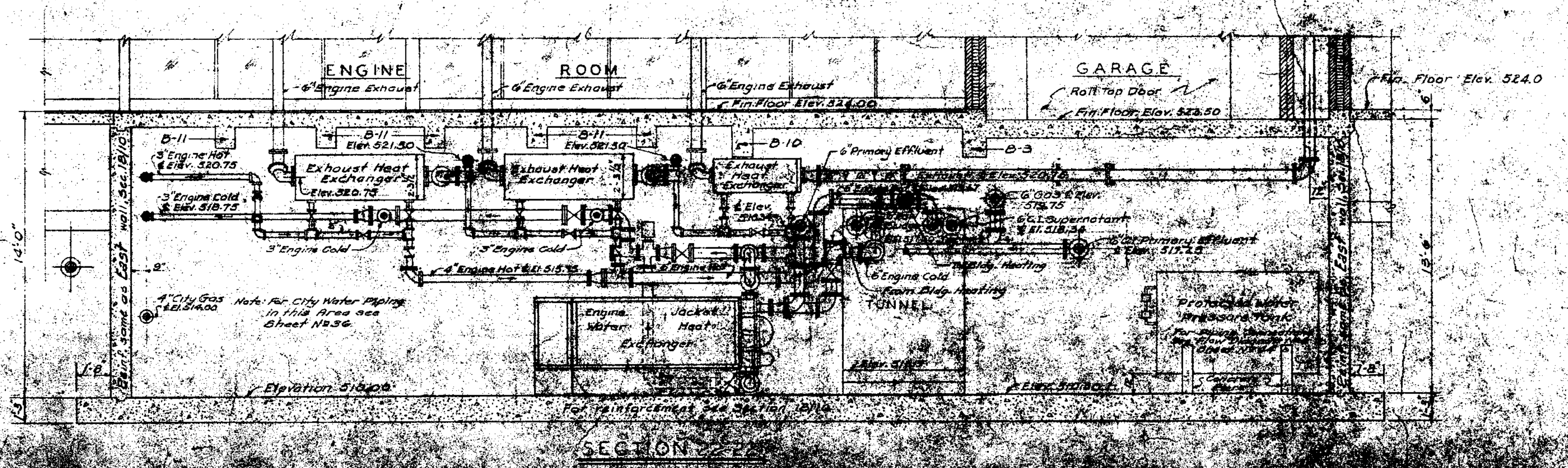
SECTION 53 - 53

<b>JOLIET, ILLINOIS</b> <b>SEWAGE TREATMENT PLANT</b>	
MAIN CONTROL BUILDING PLANT BY-PASS & WET WELL SECTION	
DRAWN BY: A.W.H.	SCALE: 1/4" = 1'-0"
DATE: CHECKED BY: L.F.R.	REVISED:
APPROVED BY: P.A.S.	APRIL 1954 SHEET NO. 12 OF 45
<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b> <b>CONSULTING ENGINEERS</b> CHICAGO, ILL.	





**BASEMENT PLAN**  
Above Elev. 522.0



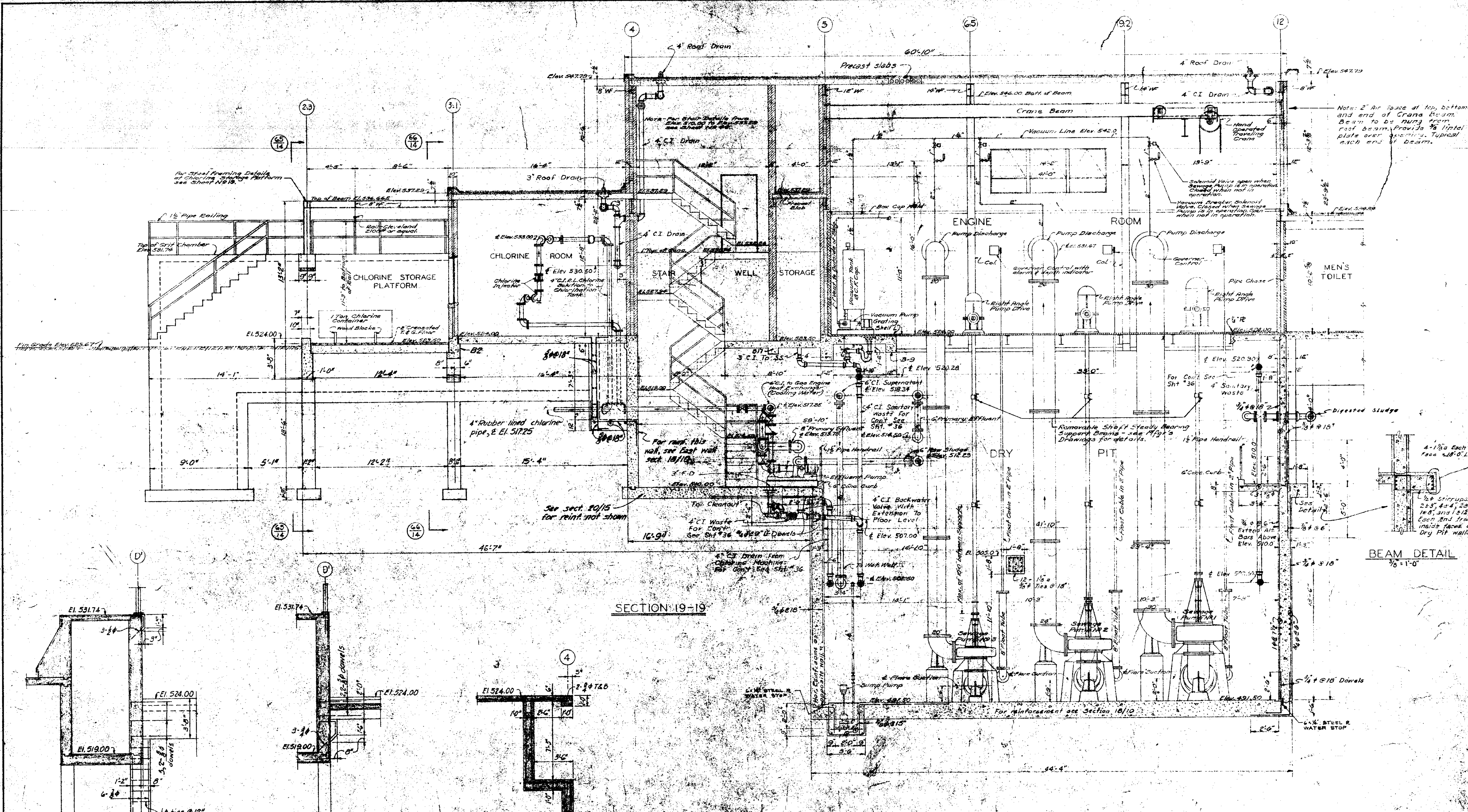
**SECTION 2-2**

**JOLIET ILLINOIS**  
**SEWAGE TREATMENT PLANT**

**MAIN CONTROL BUILDING**  
**BASEMENT PLAN & SECTION**

DRAWN BY: VBS	SCALE: 1/4" = 1'-0"	<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b>	REVISIONS: 1
DATE: Jan 1951	CHECKED BY: LFR	<b>CONSULTING ENGINEERS</b>	APRIL 1951
APPROVED BY: LFR		CHICAGO, ILL.	SHEET NO. 13

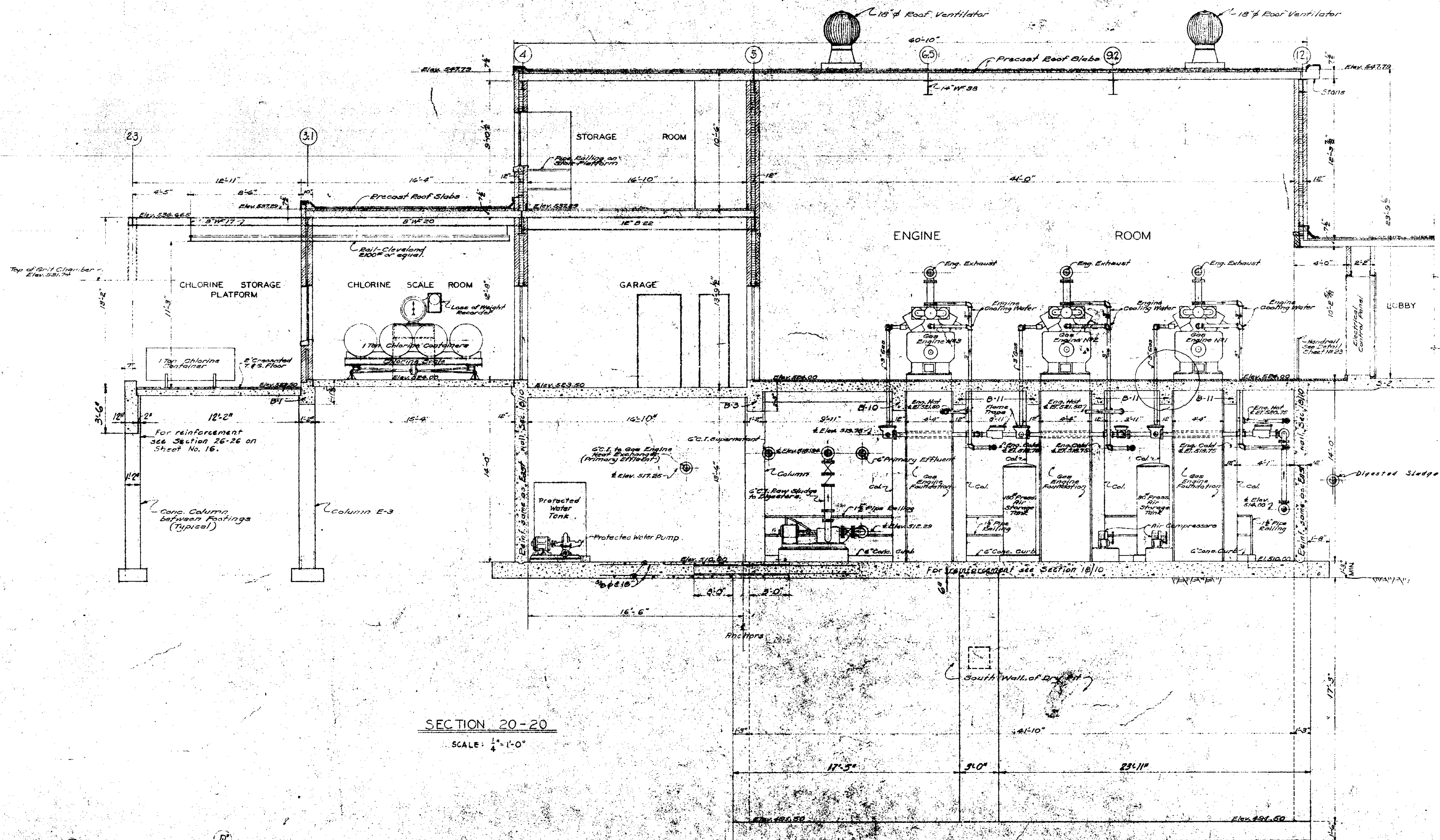




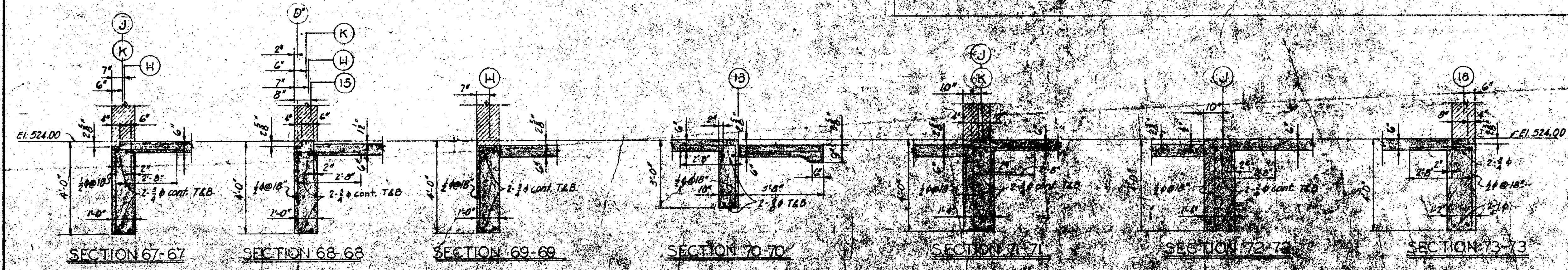
<b>JOLIET, ILLINOIS</b> <b>SEWAGE TREATMENT PLANT</b> <b>MAIN CONTROL BUILDING</b> <b>SECTION</b>	
DRAWN BY A.W.H. DATE Jan. 1957 CHECKED BY A.F.R. APPROVED BY S.A.C.	<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.
SCALE REVISIONS SHEET NO.	CHICAGO, ILL.

DIVISION 11 - CONTROL BUILDING



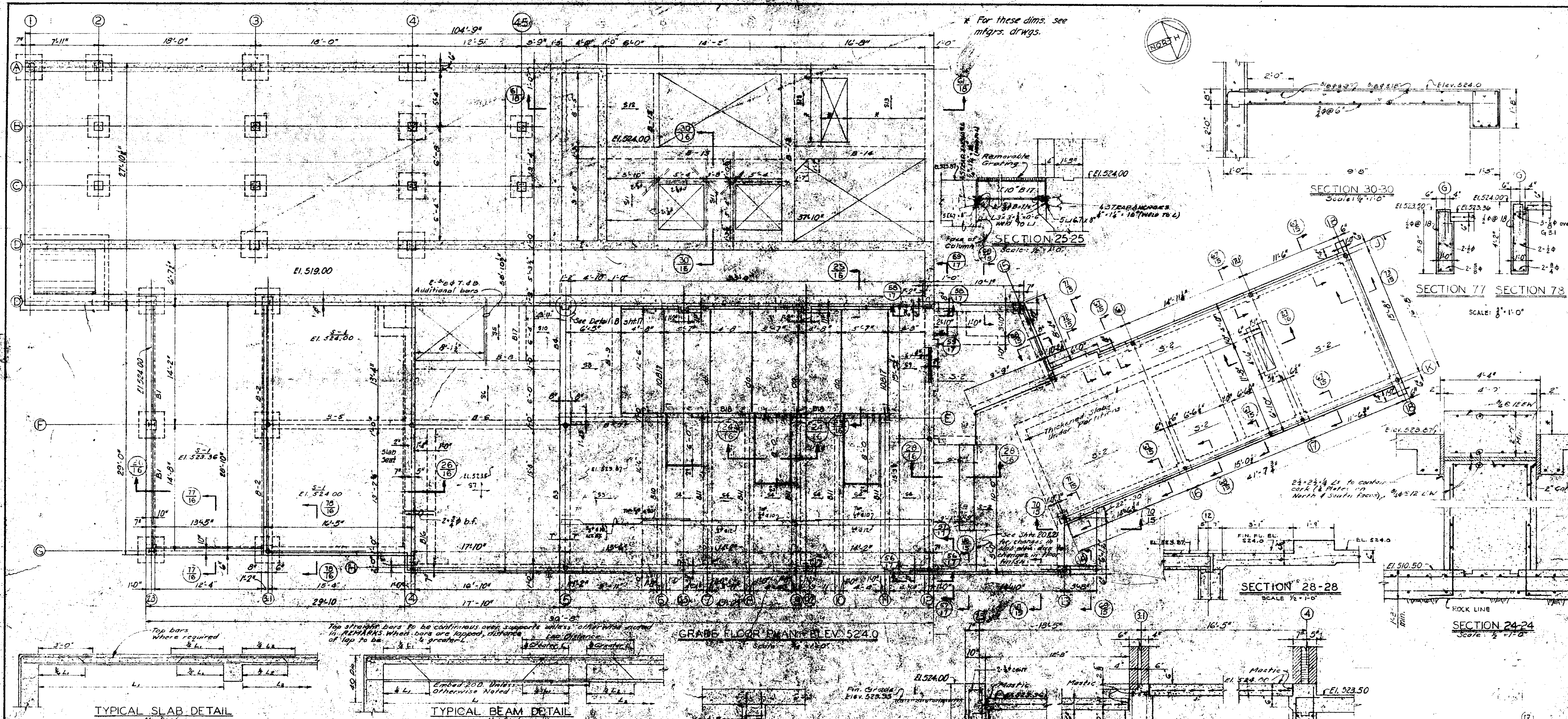


SECTION 20-20  
SCALE: 1/4" = 1'-0"



<b>JOLIET, ILLINOIS</b> <b>SEWAGE TREATMENT PLANT</b> MAIN CONTROL BUILDING SECTION		
DRAWN BY: A.M.H. DATE: 10/1/35 CHECKED BY: L.R.P. APPROVED BY: R.P.G.	<b>CONSOER, TOWNSEND</b> <b>&amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.	SCALE: As shown REVIEWED: H.A.M. CHECKED BY: L.R.P. DATE: 10/1/35





SLAB SCHEDULE				BEAM SCHEDULE			
MARK	DEPTH	REINFORCING	REMARKS	MARK	SIZE	LONG. BARS	REMARKS
S1	C	4" x 4" WIRE MESH	SLAB ON FILL	B-1	14	27	2
S2	C	4" x 4" WIRE MESH	SLAB ON FILL	B-2	14	27	2
S3	9"	SEE GRADE FLOOR PLAN FOR DWG.	3/4" x 12" TEMP.	B-3	14	27	2
S4	8"	5/8" TOP STR.		B-4	14	27	2
S5	9"	5/8" TOP STR.		B-5	12	21	2
S6	9"	5/8" TOP STR.		B-6	12	21	2
S7	9"	5/8" TOP STR.		B-7	12	18	2
S8	9"	5/8" TOP STR.		B-8	12	18	2
S9	8"	5/8" TOP STR.		B-9	12	18	2
S10	7"	5/8" TOP STR.		B-10	12	18	2
S11	8"	SEE SECT 30-30, DWG. C		B-11	12	18	2
S12	8"	5/8" TOP STR.		B-12	12	18	2
S13	8"	5/8" TOP STR.		B-13	12	18	2

PIER & COLUMN SCHEDULE											
MARK	SECTION	NO.	SECTION	NO.	SECTION	NO.	SECTION	NO.	SECTION	NO.	SECTION
B-1	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"
B-2	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"
B-3	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"
B-4	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"
B-5	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"
B-6	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"
B-7	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"
B-8	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"
B-9	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"
B-10	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"
B-11	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"
B-12	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"
B-13	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"
B-14	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"
B-15	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"
B-16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"	16	10'-0"

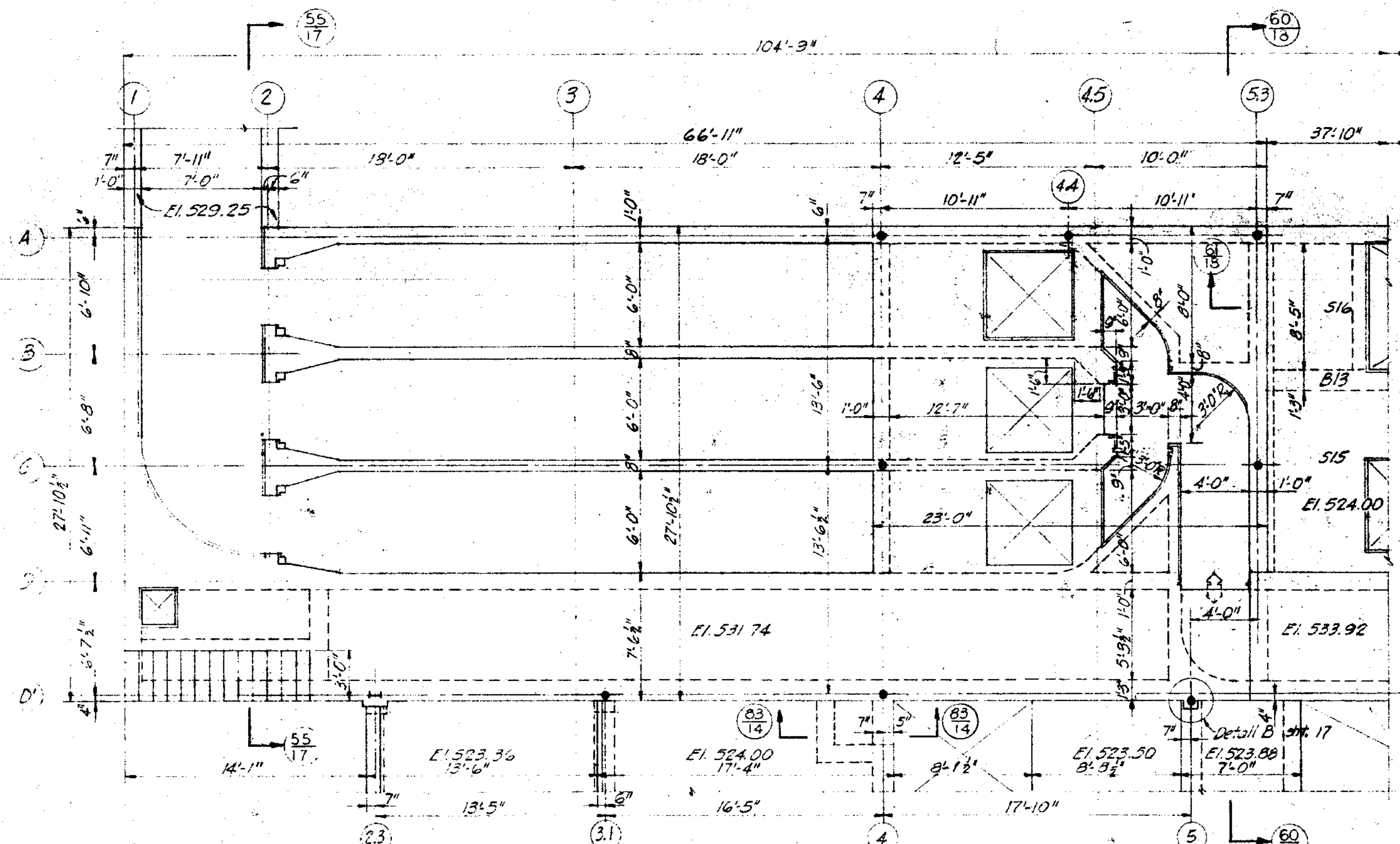
**JOLIET, ILLINOIS  
SEWAGE TREATMENT PLANT**

MAIN CONTROL BLDG. - PLAN & SECTIONS -  
STRUCTURAL

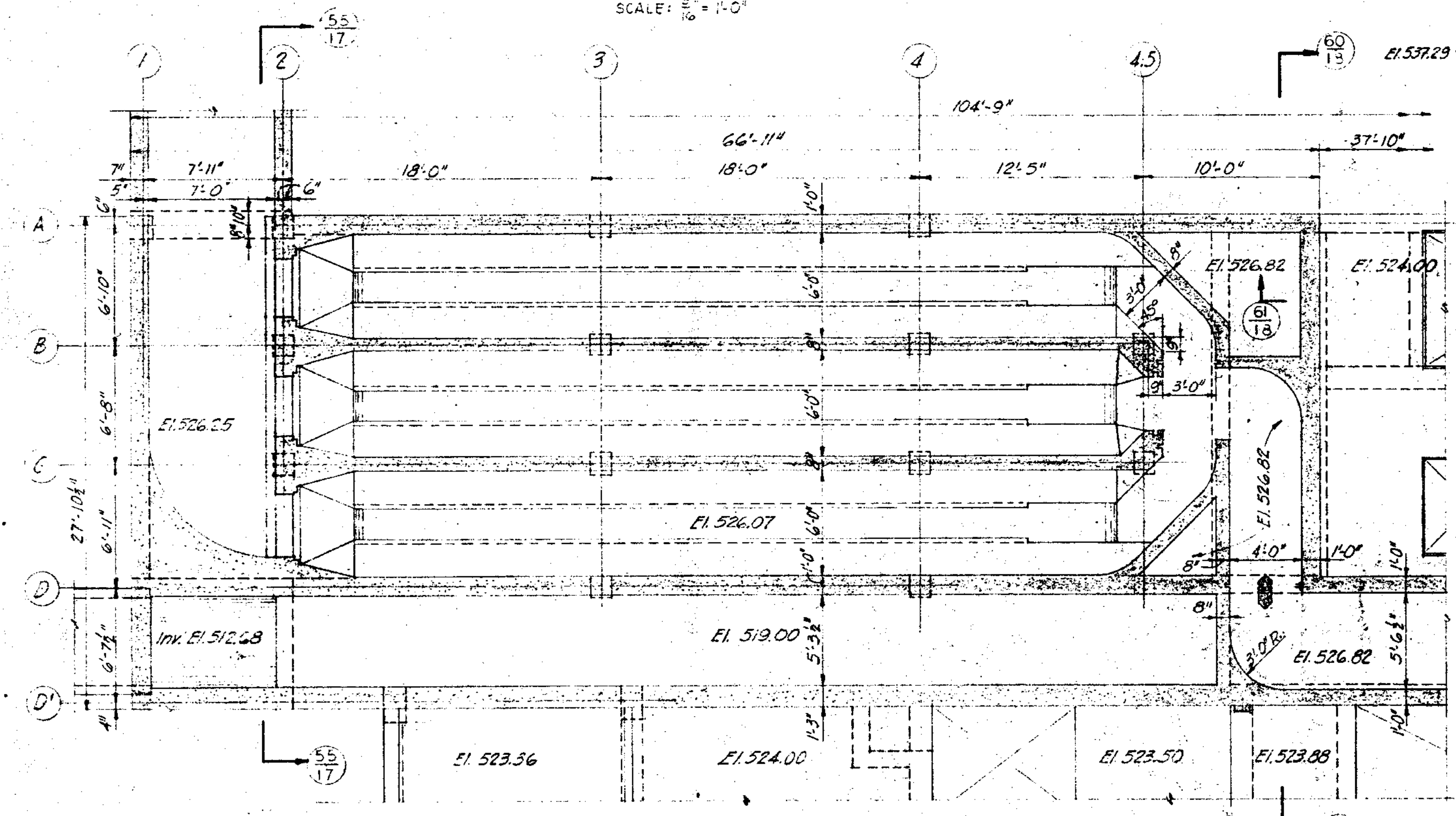
DRAWN BY: W.E.K.	CHECKED BY: W.S.&L.F.R.	SCALE: As Noted
DATE: Jan. 1951	APPROVED BY: R.A.S.	REVISIONS:
<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b>		
CONSULTING ENGINEERS		
CHICAGO, ILL.		

DIVISION A - CONTRACT NO. 100-100-100

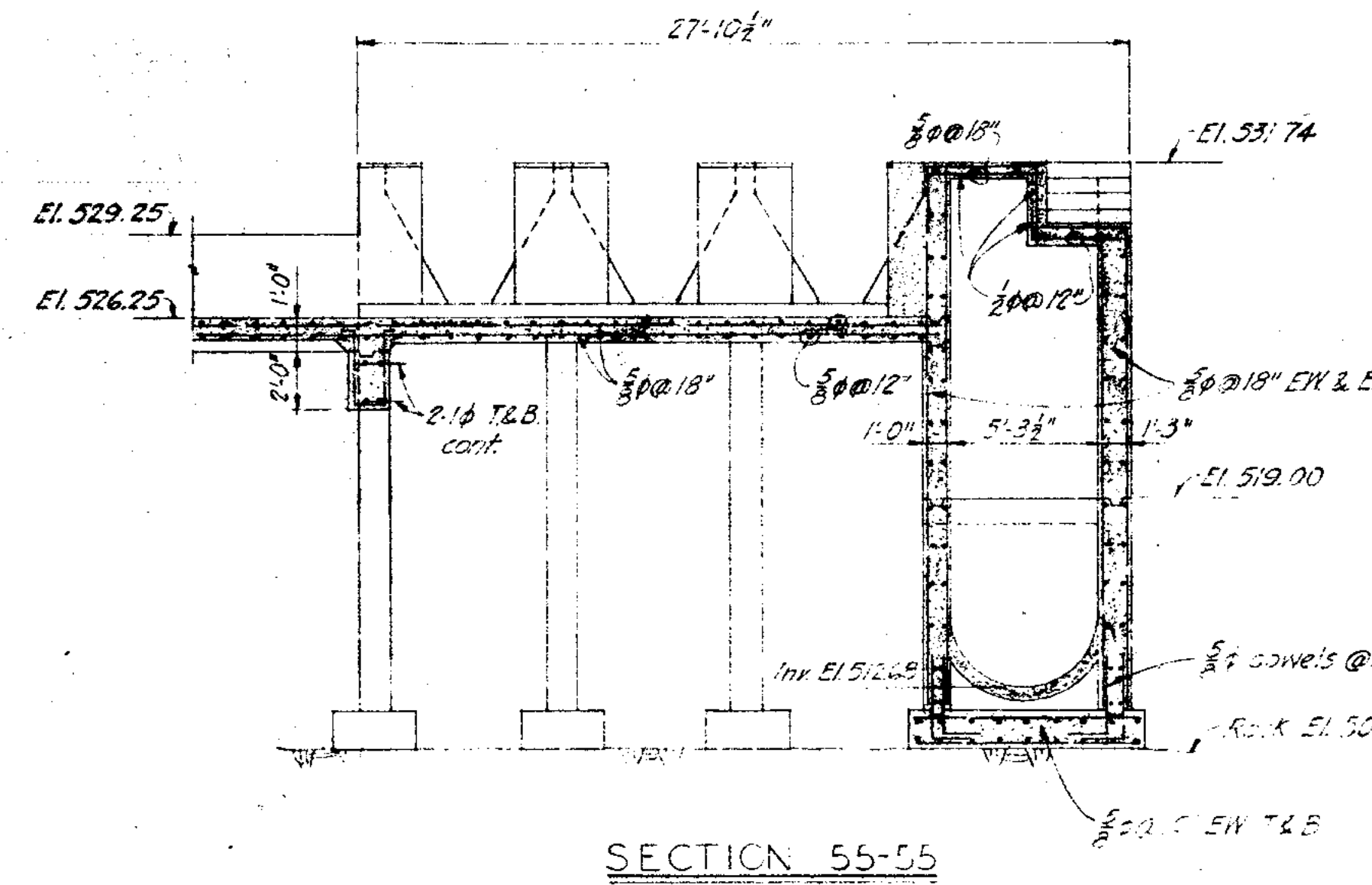




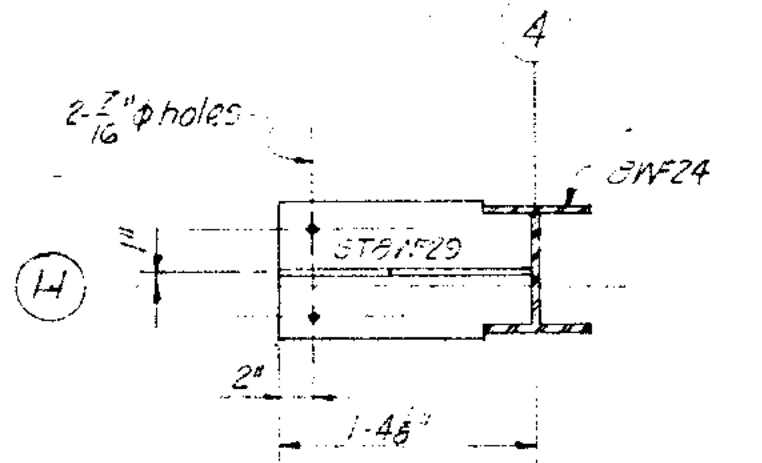
PART PLAN ABOVE EL 533.92  
SCALE: 1/8" = 1'-0"



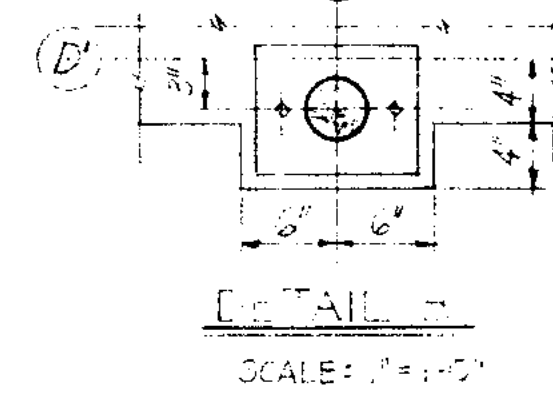
PART PLAN ABOVE EL 526.82  
SCALE: 1/8" = 1'-0"



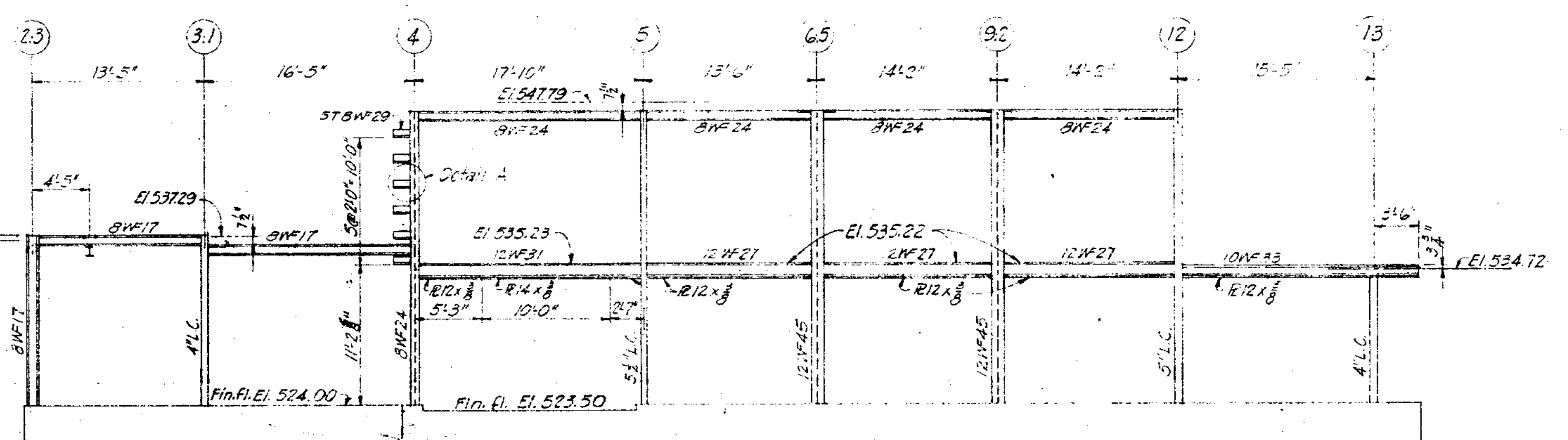
SECTION 55-55



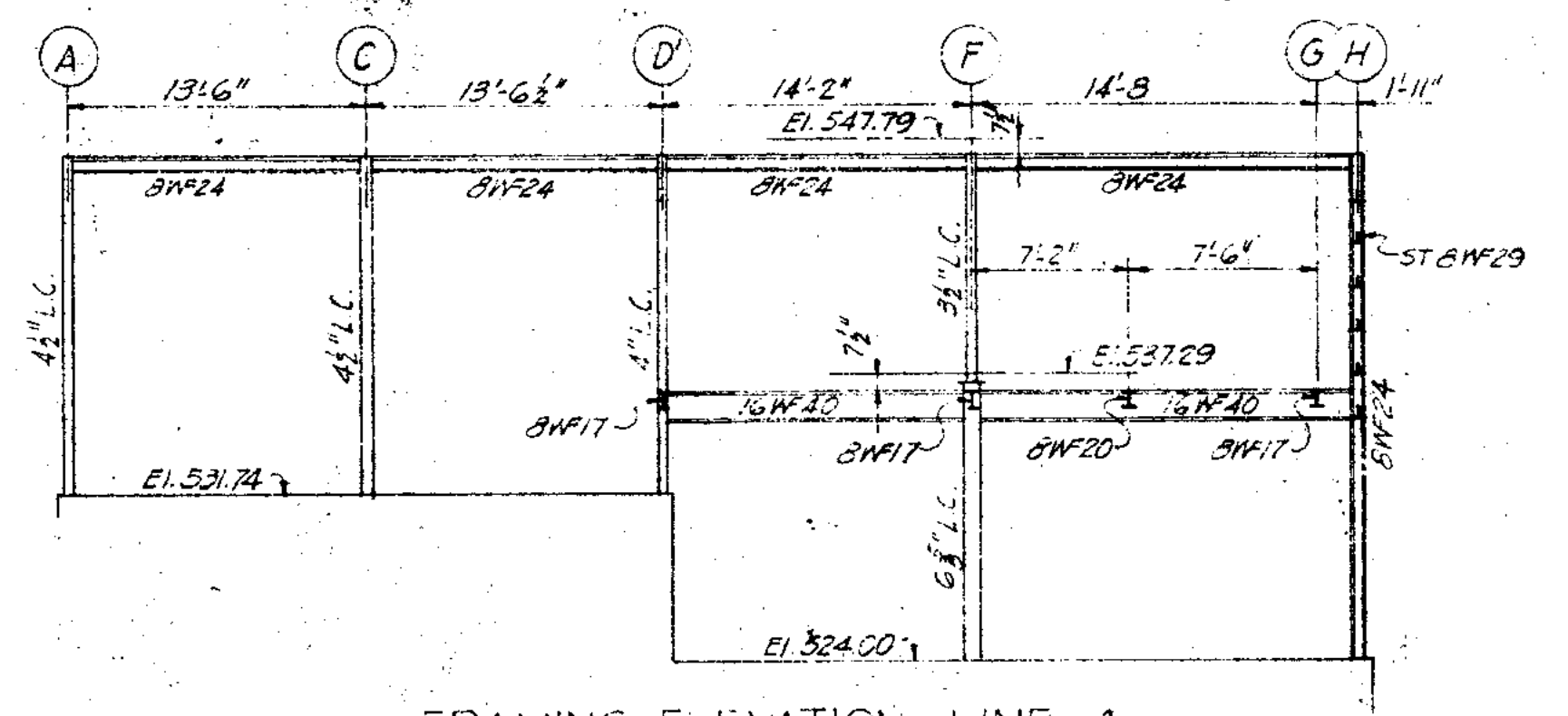
DETAIL A  
SCALE: 1/2" = 1'-0"



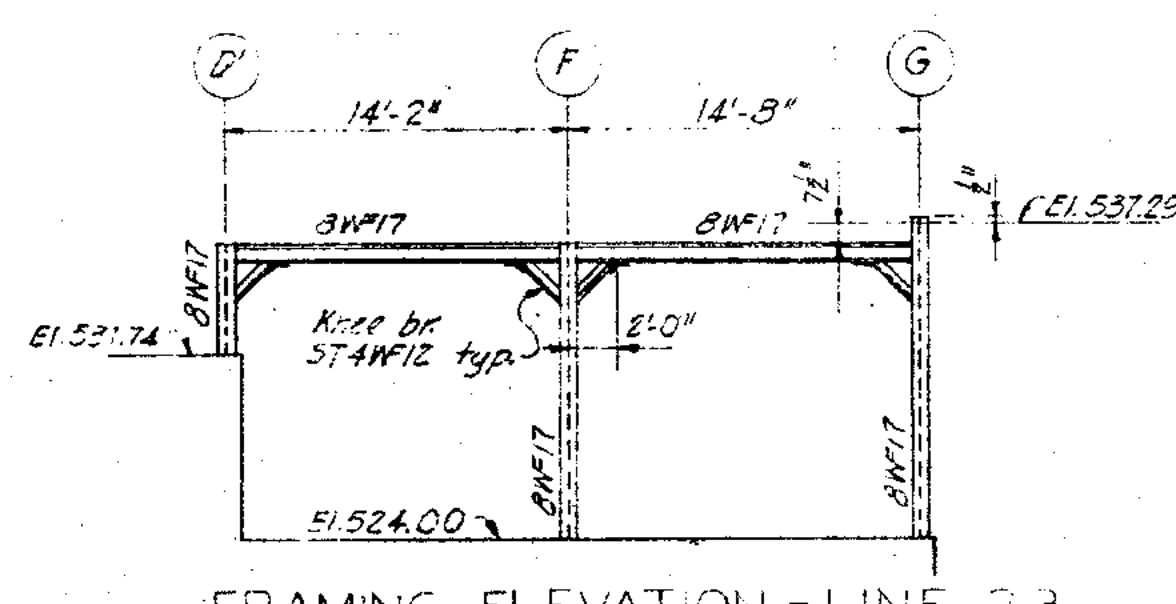
DETAIL B  
SCALE: 1/2" = 1'-0"



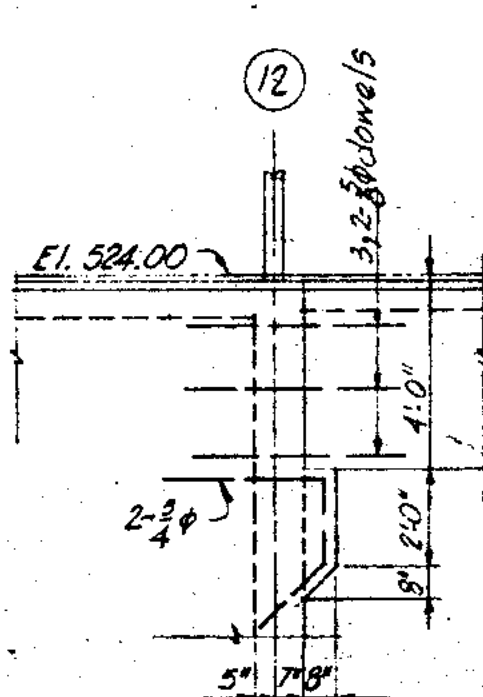
FRAMING ELEVATION - LINE H  
SCALE: 3/8" = 1'-0"



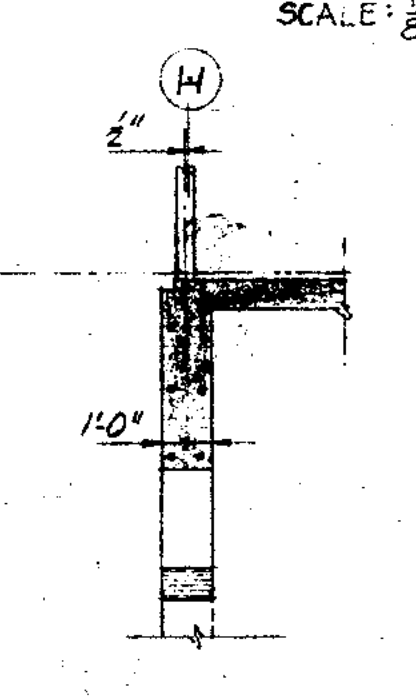
FRAMING ELEVATION - LINE 4  
SCALE: 3/8" = 1'-0"



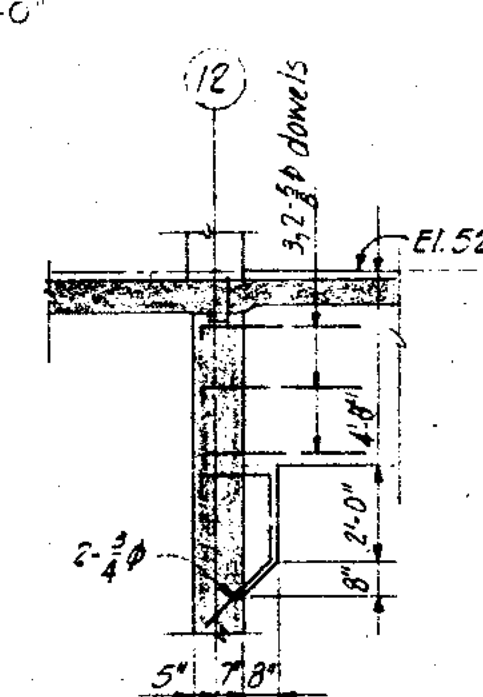
FRAMING ELEVATION - LINE 23  
SCALE: 3/8" = 1'-0"



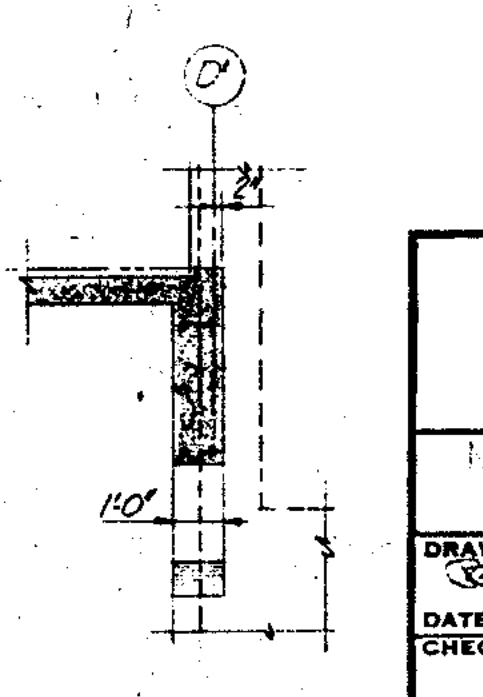
SECTION 56-56



SECTION 57-57



SECTION 58-58

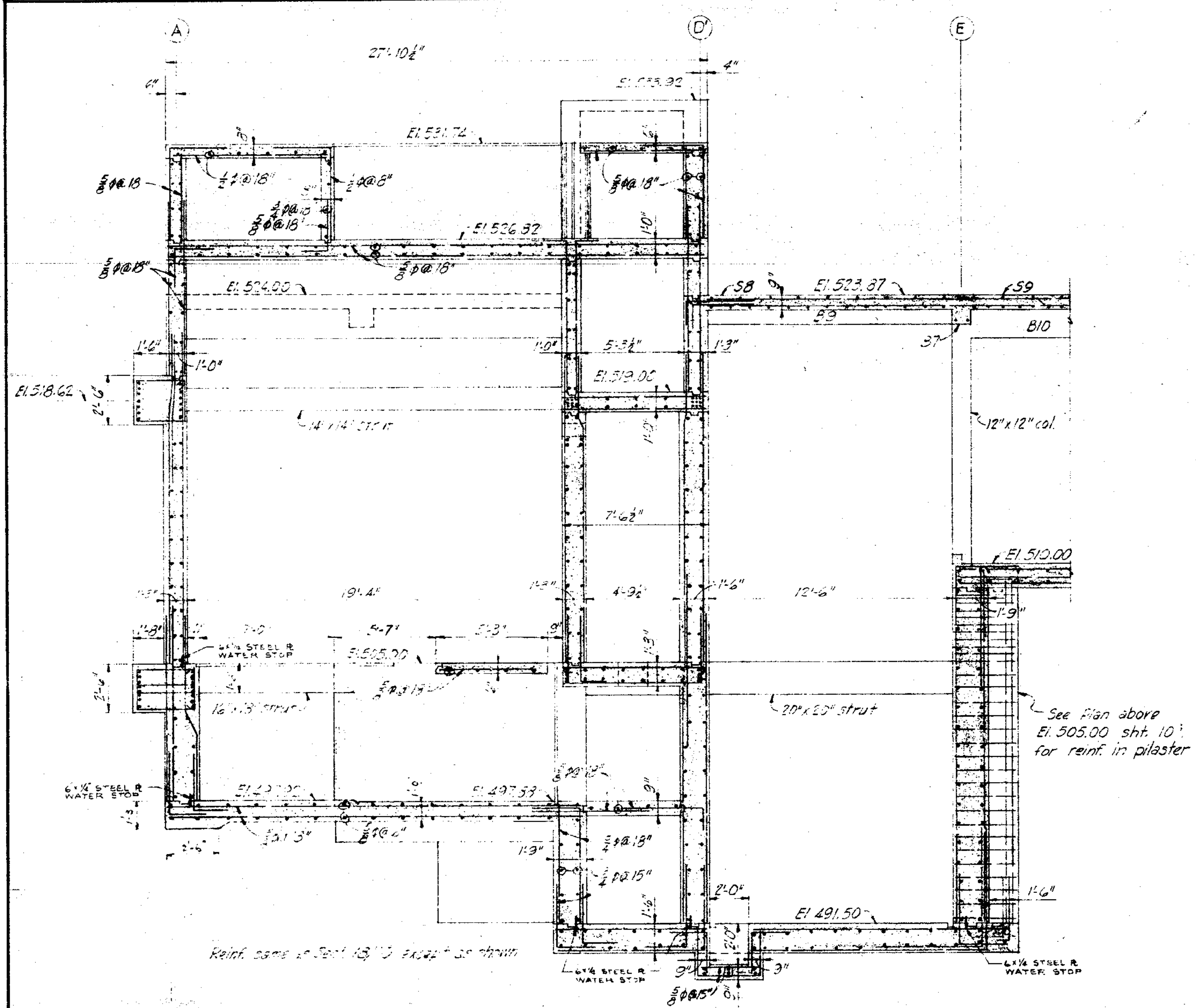


SECTION 59-59

JOLIET ILLINOIS  
SEWAGE TREATMENT PLANT  
MAIN CONTROL BUILDING - FIT CHAMBERS  
PLANS & SECTIONS - STRUCTURAL

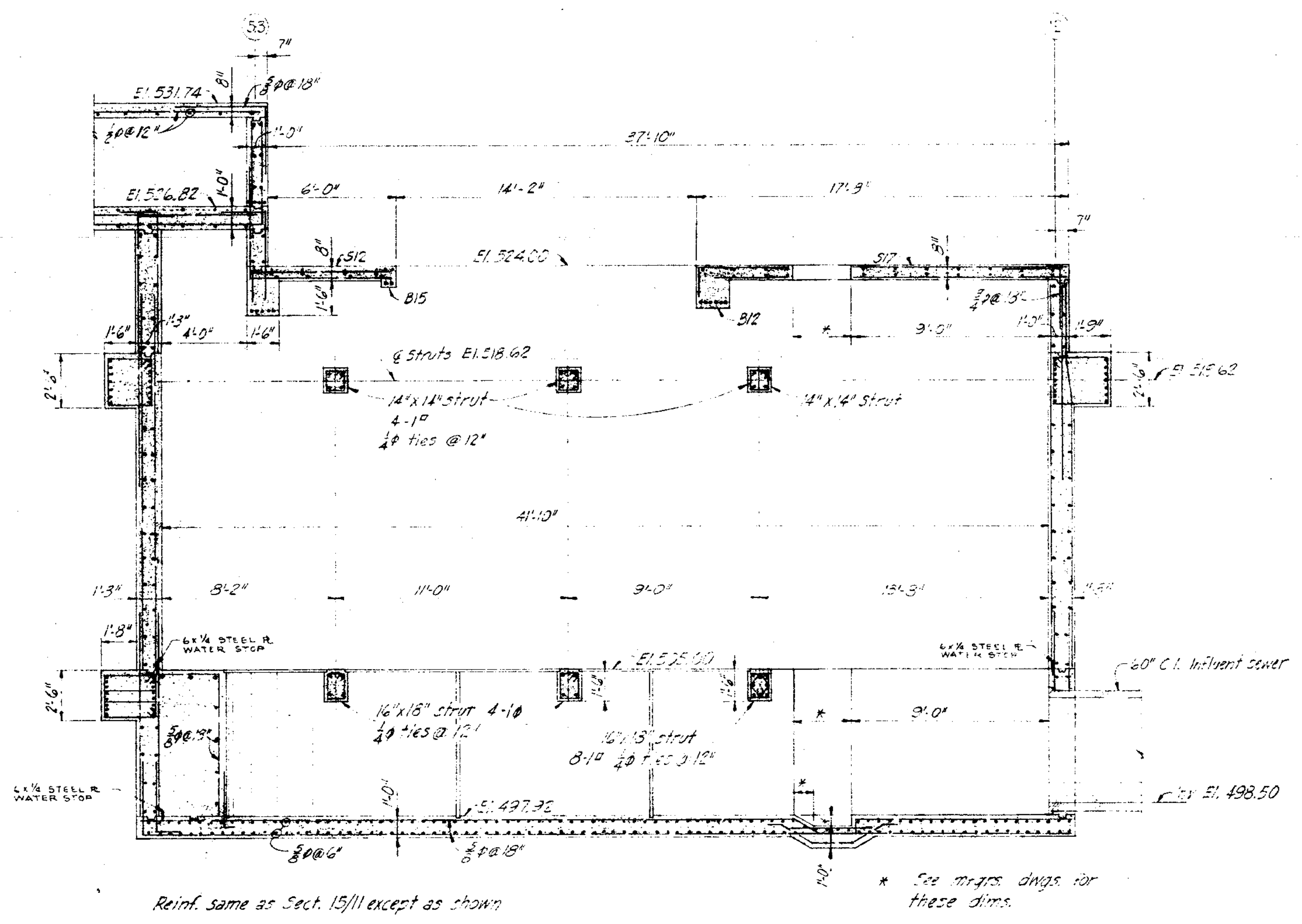
DRAWN BY: R.E.S.	DATE: 4-29-54	CHECKED BY: H.M.S.	APPROVED BY: R.A.S.
CONSOER, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS CHICAGO, ILL.			SCALE: As shown REVISED: APRIL 1954 SHEET NO. 17 OF 45 SHEETS





Reinf. same as Sect. 13/10 except as shown

SECTION 60-61



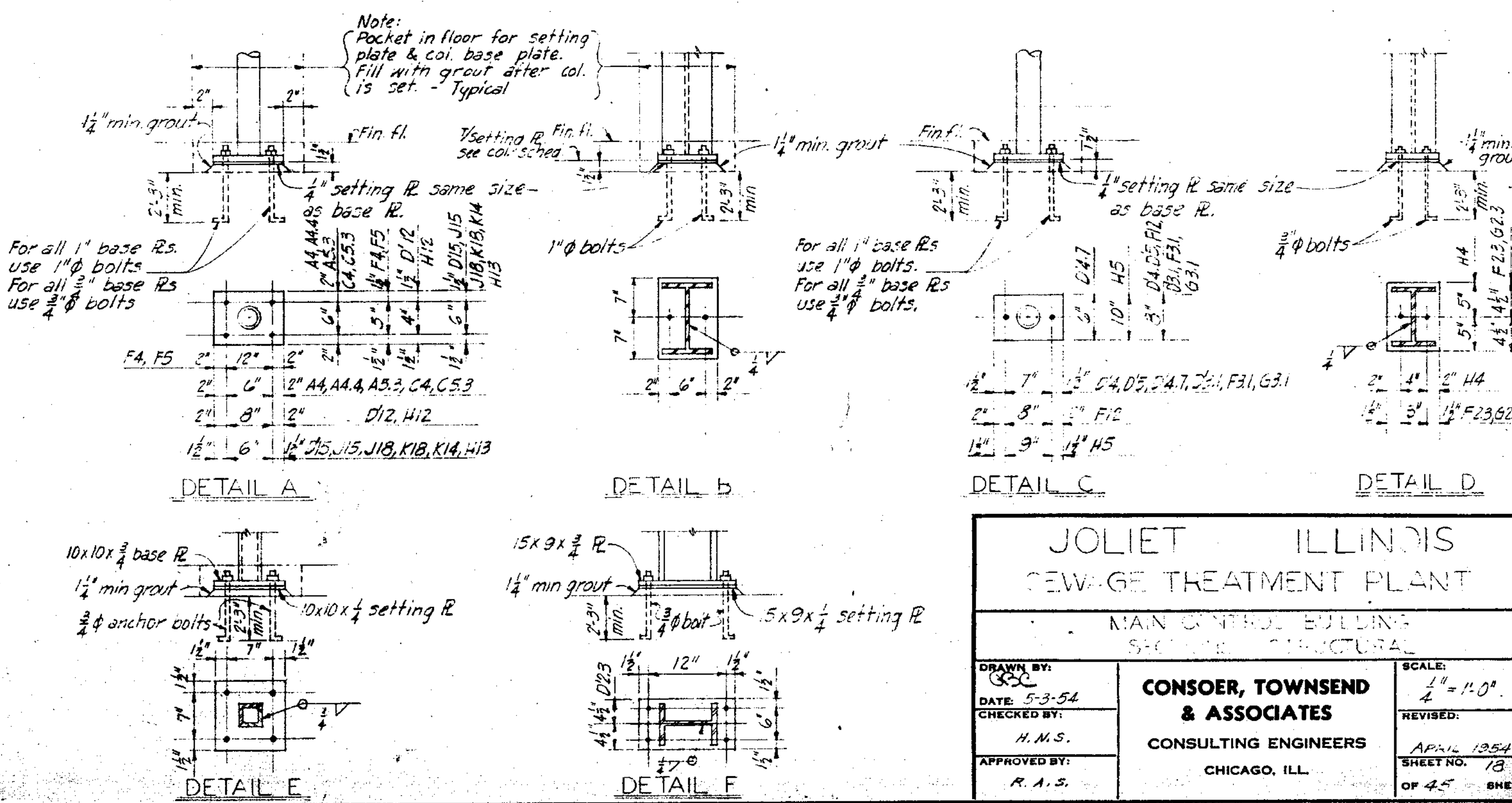
Reinf. same as Sect. 15/11 except as shown

SECTION 61-62

Col. lines	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Col. lines	A4 A4.5	C4 C5.5	D4 D5.5	D6.5 D9.5	D12	F4	F3	F12 H4	H5	H6.5 H9.5	D'47 H12	D'23 D'31	F31	F2.2 G2.3	G3.1	D'15 J15 K14	H13 K16	J17.1 K17	J18 K18					
El. 547.79	2"										7 1/2"													
El. 537.09	4" L.C.	4 1/2" L.C.	4" L.C.	12WF45	5" L.C.																			
El. 534.72					3 1/2" 3 1/2" L.C.	4" L.C.	4" L.C.																	
El. 523.92																								
El. 531.74																								
El. 522.00																								
BASE PLATES 1st dim. is in north-south direction	10x10x 1/2"	10x10x 1/2"	10x10x 1/2"	10x14x 1/2"	12x17x 1/2"	7x6x 1/2"	7x6x 1/2"	6x10x 1/2"	8x10x 1/2"	10x14x 1/2"	10x16x 1/2"	12x17x 1/2"	15x19x 1/2"	10x18x 1/2"	18x10x 1/2"	9x16x 1/2"	9x16x 1/2"	10x18x 1/2"	9x9x 1/2"	9x9x 1/2"	10x10x 1/2"	10x10x 1/2"	9x9x 1/2"	
Base plate Detail	A	A	C	B	A	A	A	C	D	C	B	C	A	F	C	C	D	C	A	A	E	E	A	

COLUMN SCHEDULE

Note: Bottom line of cols. indicates elevation @ top of setting plate.



JOLIET ILLINOIS  
SEWAGE TREATMENT PLANT  
MAN CONTROL BUILDING  
STRUCTURAL

CONSO, TOWNSEND & ASSOCIATES  
CONSULTING ENGINEERS  
CHICAGO, ILL.

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

APRIL 1954  
SHEET NO. 13  
OF 45 SHEETS

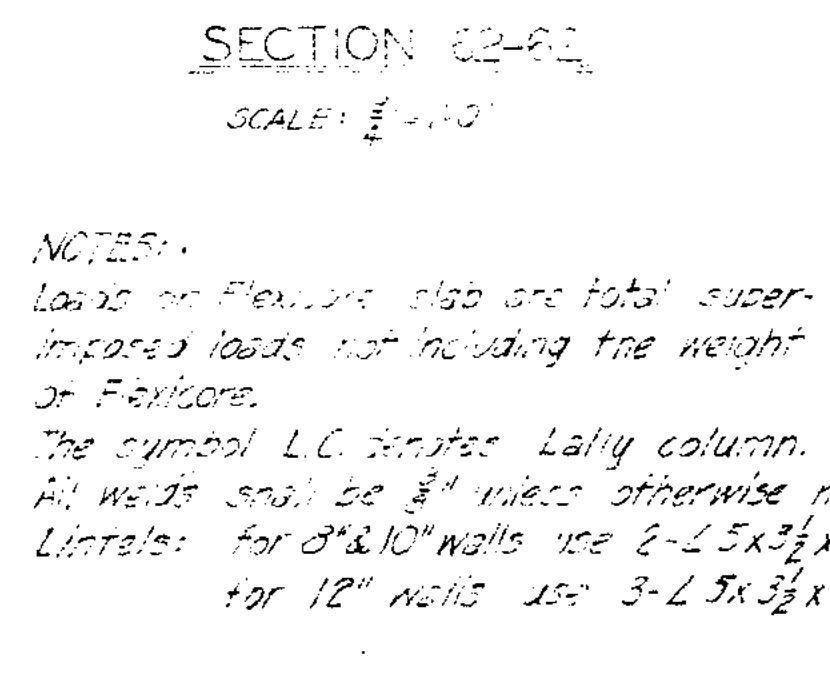
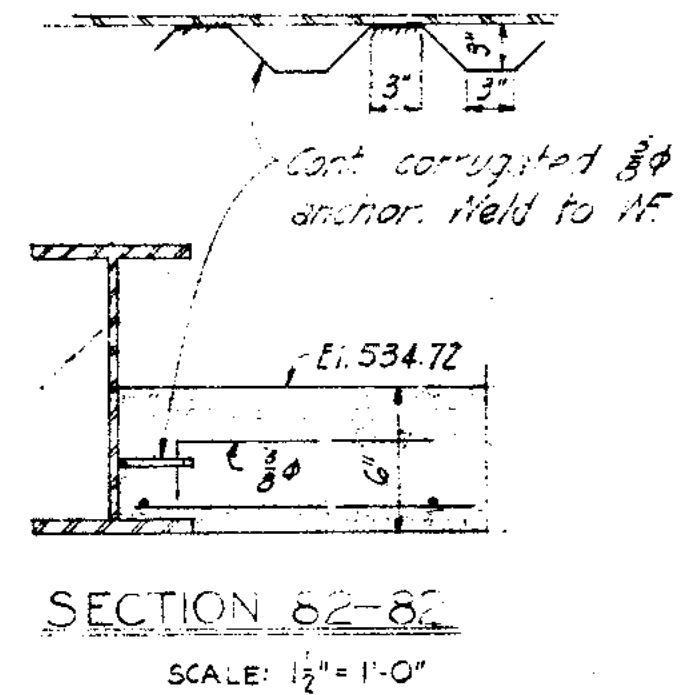
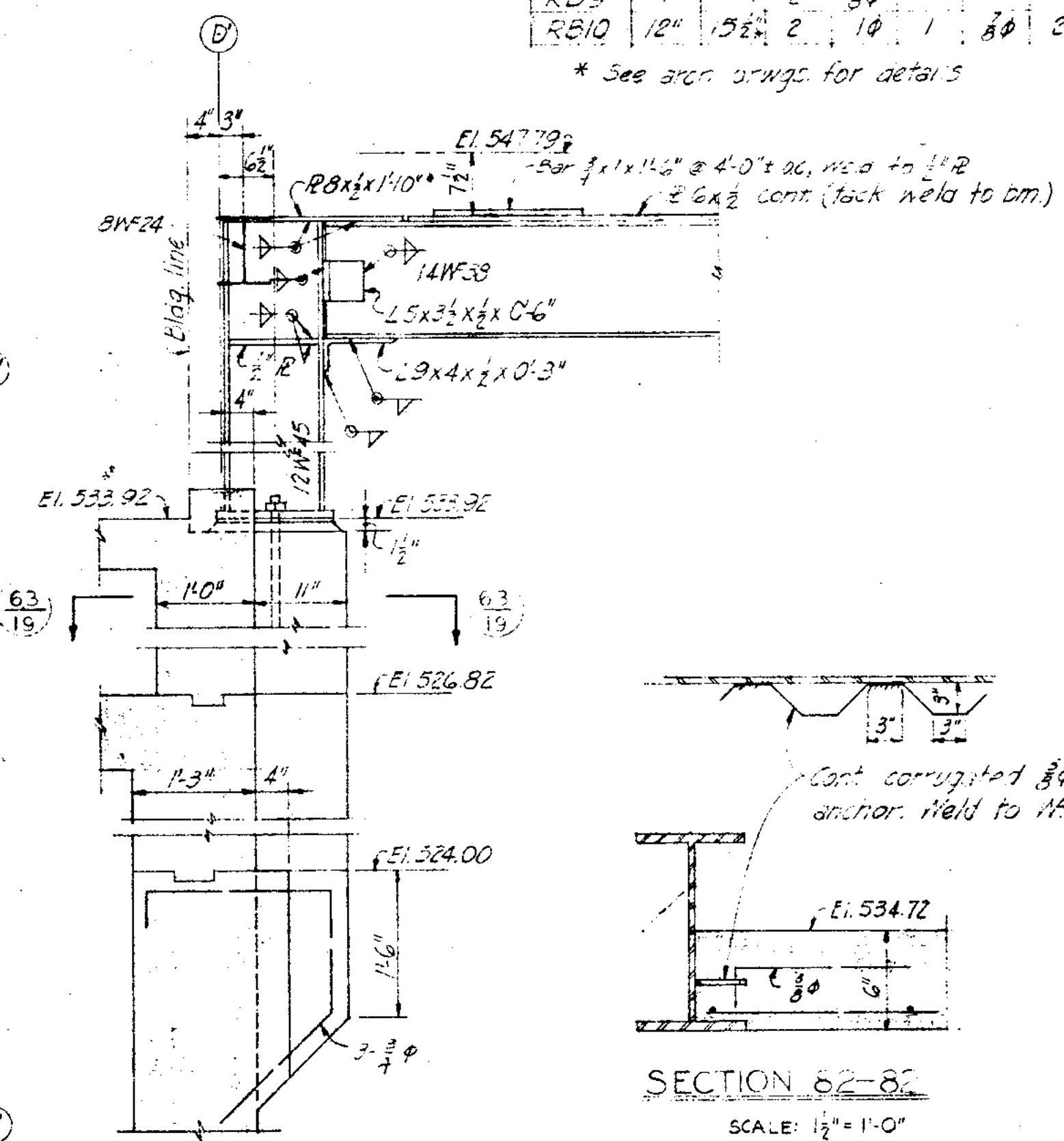
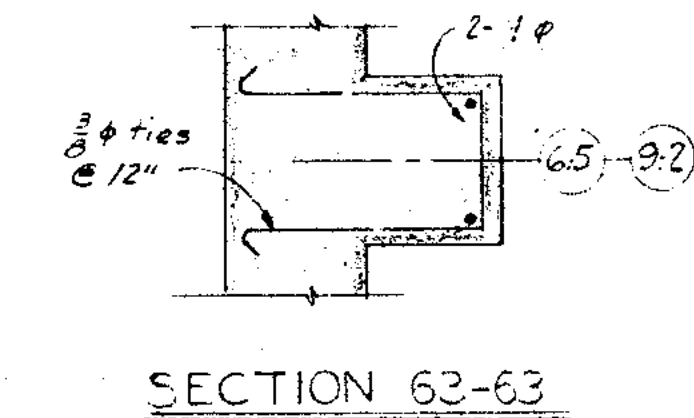
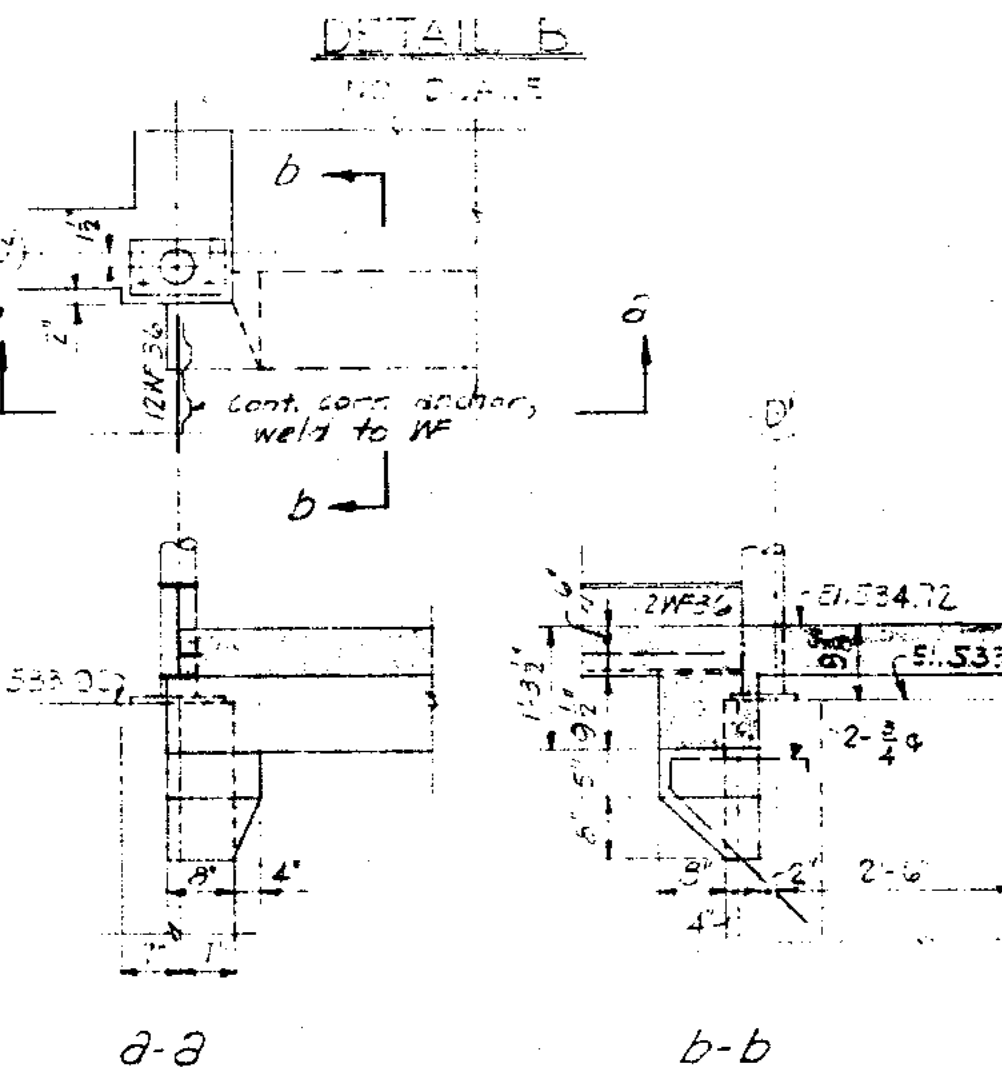
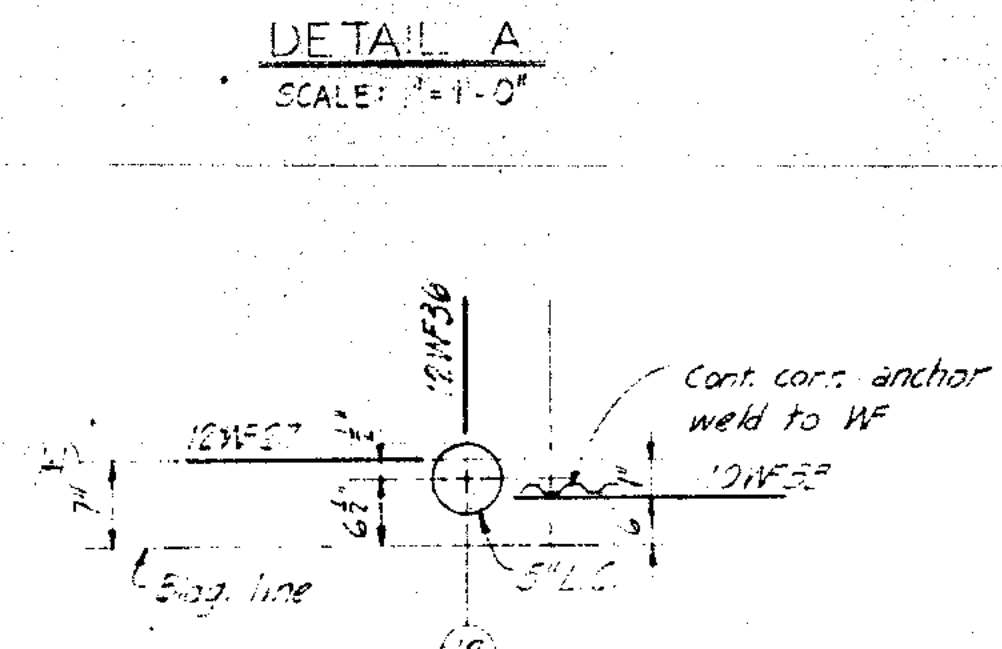
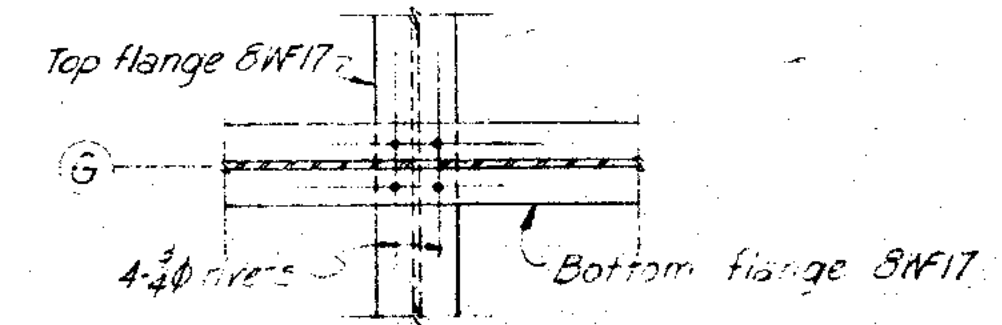
DIVISION A - CONTRACT NO. 9



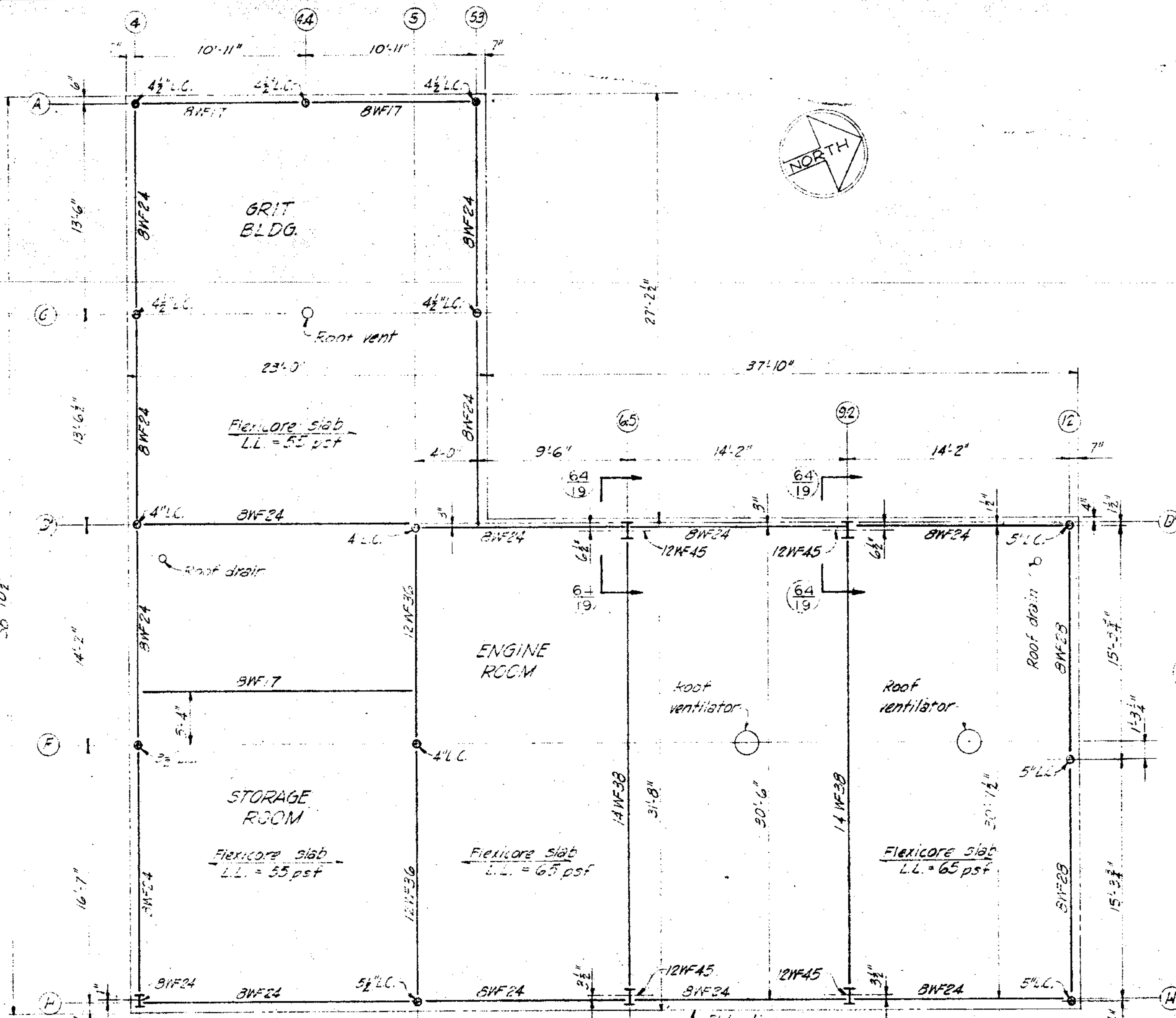
ADMIN. WING ROOF BEAM SCHEDULE

MARK	SIZE		REINFORCEMENT			STIRRUPS		REMARKS
	W	D	STRAIGHT No. Size	BENT No. Size	TOP No. Size	No. Size	Spacing	
RB1	2"	15 1/2"	2 #8					Extend 2' into RB2
RB2			2 #8					Extend 1' into RB1
RB3			1 #8	2 #8	1 #8			Extend 2' into RB4
RB4			1 #8	2 #8				Extend 2' into RB5
RB5			1 #8	2 #8				Extend 2' into RB6
RB6			1 #8	2 #8				Extend 2' into RB7
RB7			2 #8					Extend 1' into RB8
RB8			2 #8	1 #8	2 #8			Extend 2' into RB9
RB9			2 #8					Extend 1' into RB8
RB10	12"	15 1/2"	2 #10		2 #10	3 #8	3' 5" from K16	Extend 2' into RB9

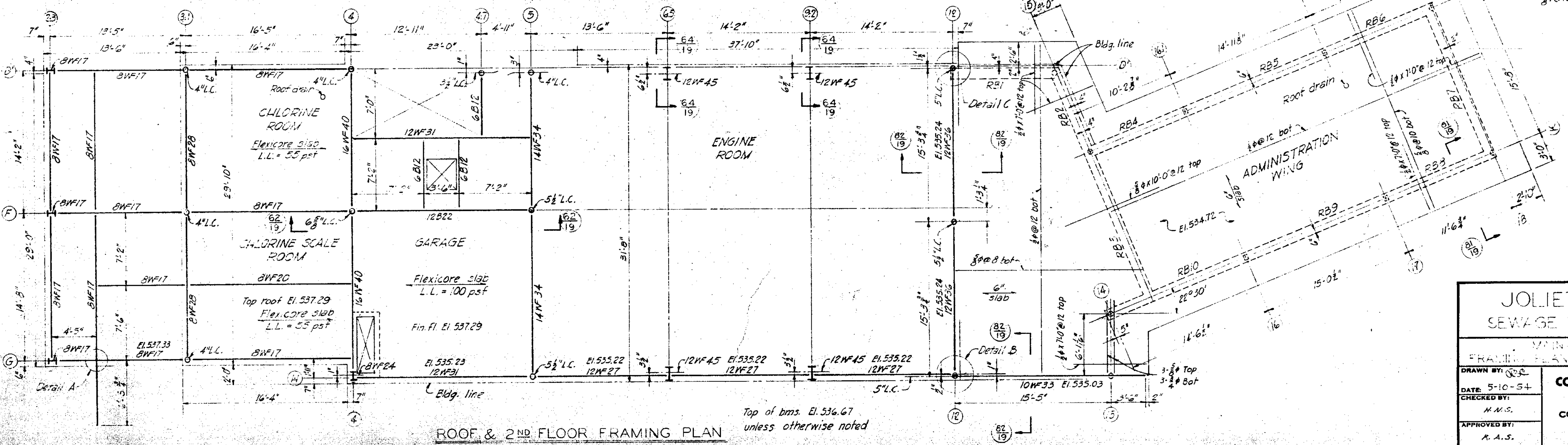
\* See arch. drngs. for details



NOTES:  
 Loads on Flexicore slabs are total superimposed loads not including the weight of Flexicore.  
 The symbol L.C. denotes Lally column.  
 All welds shall be 3/8\"/>



Note: See Arch. drngs. shts. 22 & 23 for details of Flexicore fastenings to steel bms.  
 Top of bms. El. 547.165 unless otherwise noted.



Top of bms. El. 536.67 unless otherwise noted.

JOLIET ILLINOIS SEWAGE TREATMENT PLANT

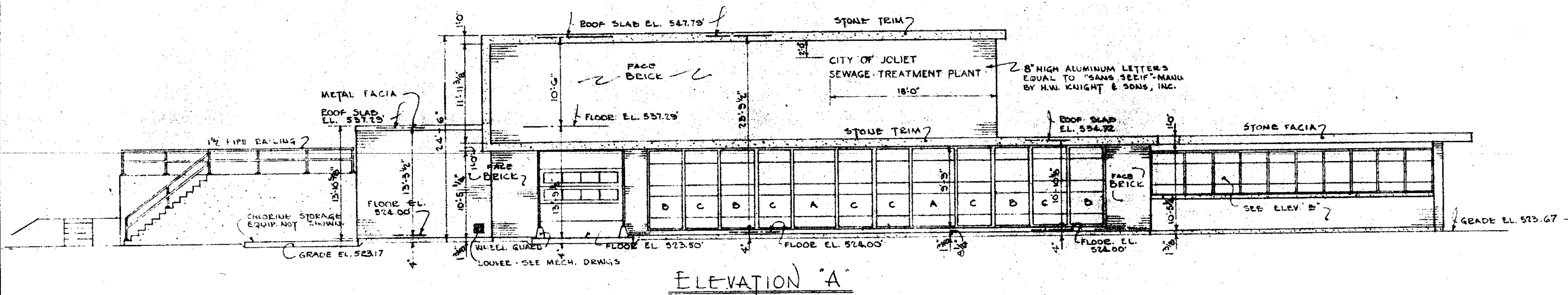
MAIN CONTROL BUILDING FRAMING PLAN & DETAILS STRUCTURAL

CONSOER, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS CHICAGO, ILL.

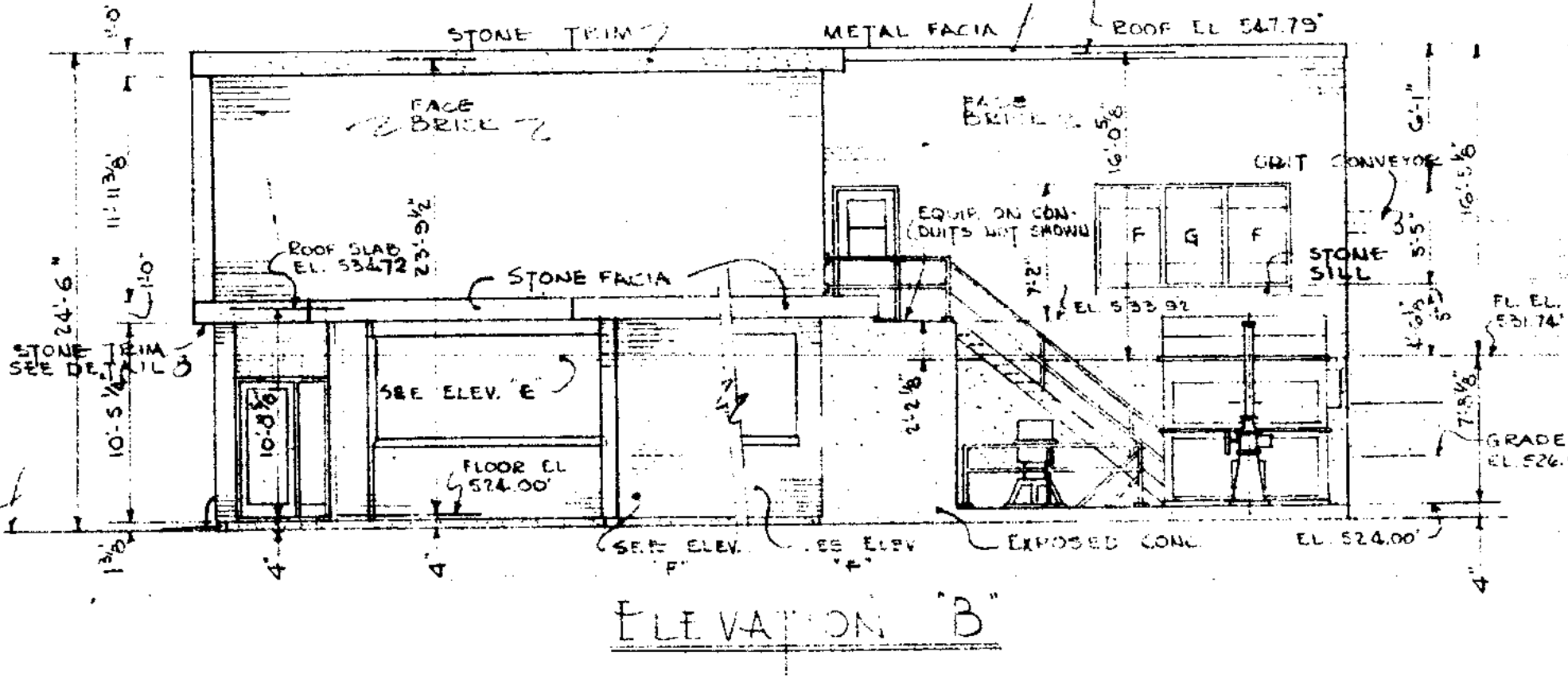
DATE: 5-10-54  
 CHECKED BY: H.M.S.  
 APPROVED BY: A.A.S.

SCALE: 3/16\"/>

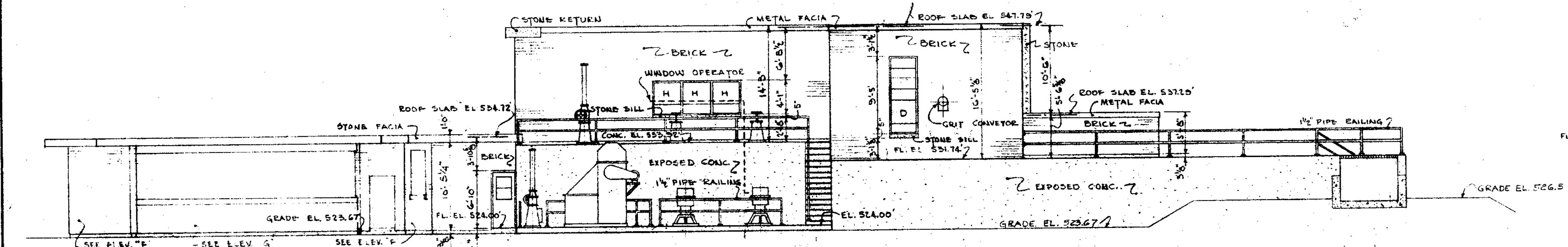




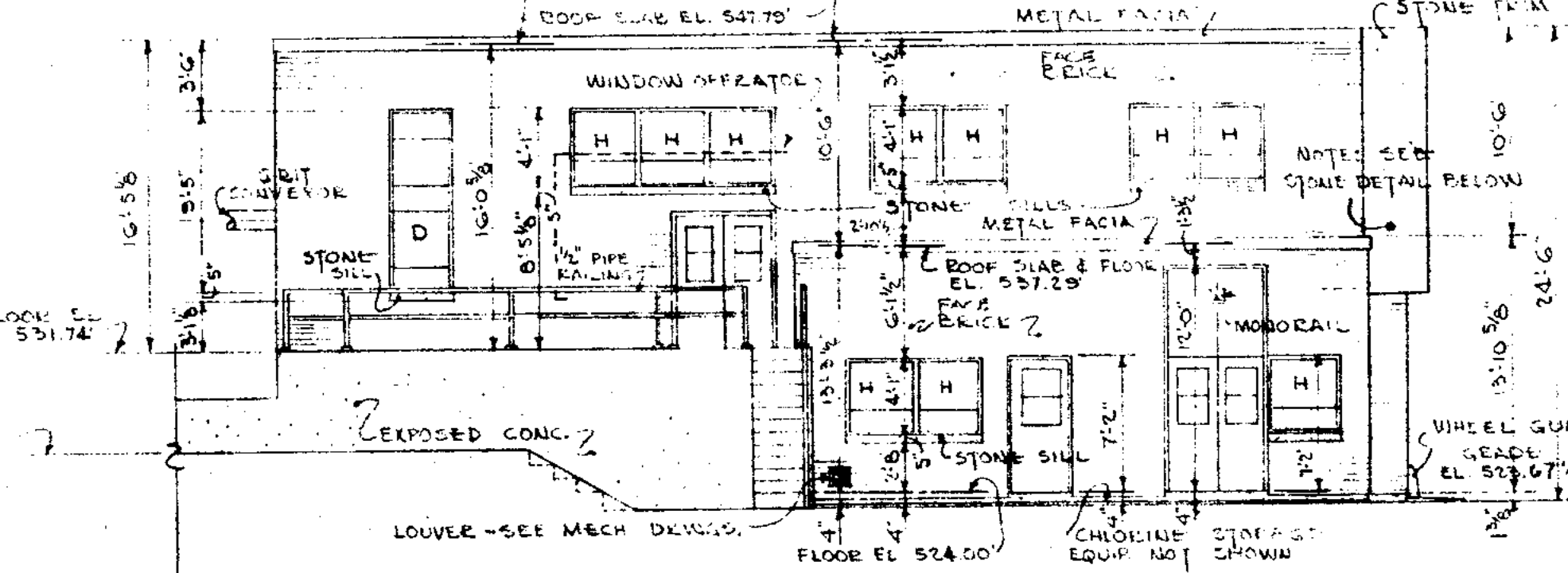
ELEVATION A



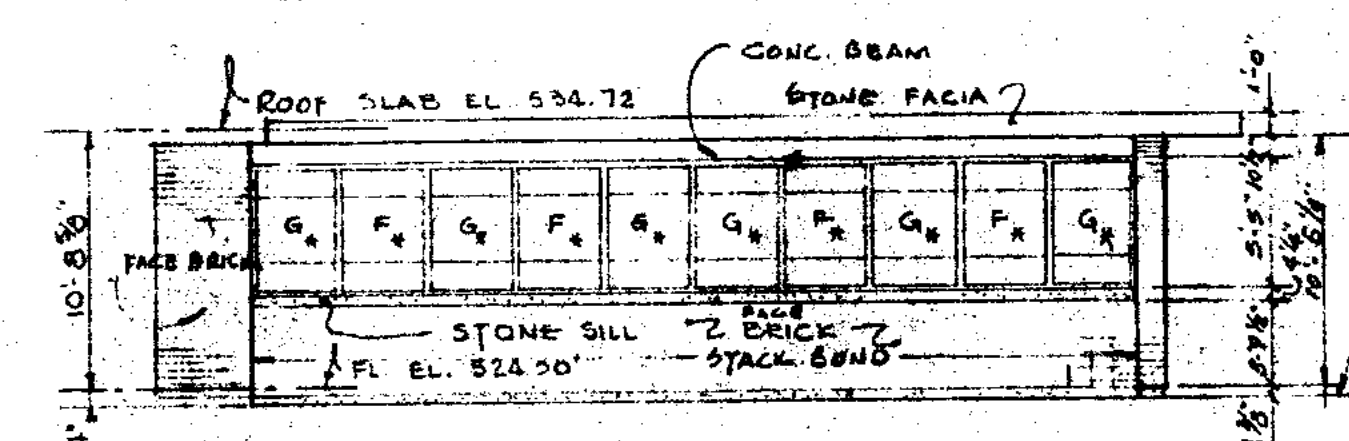
ELEVATION B



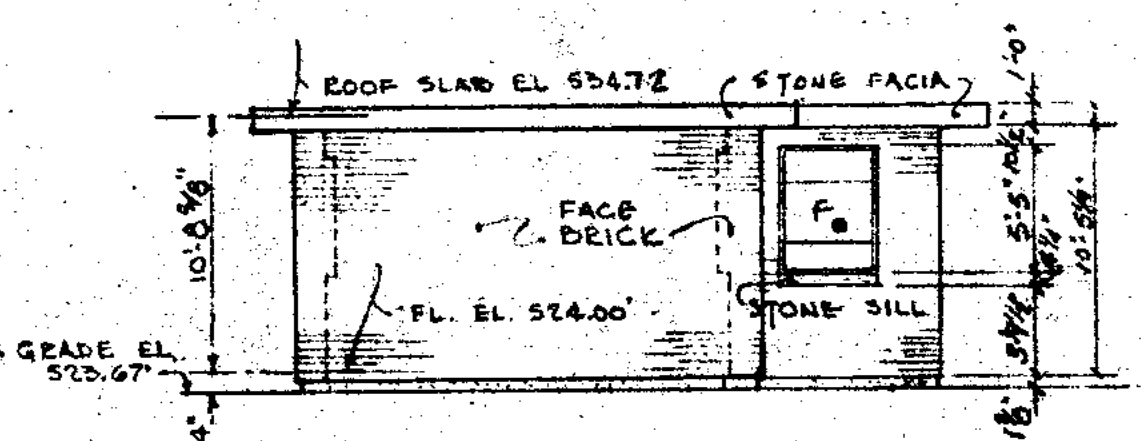
ELEVATION C



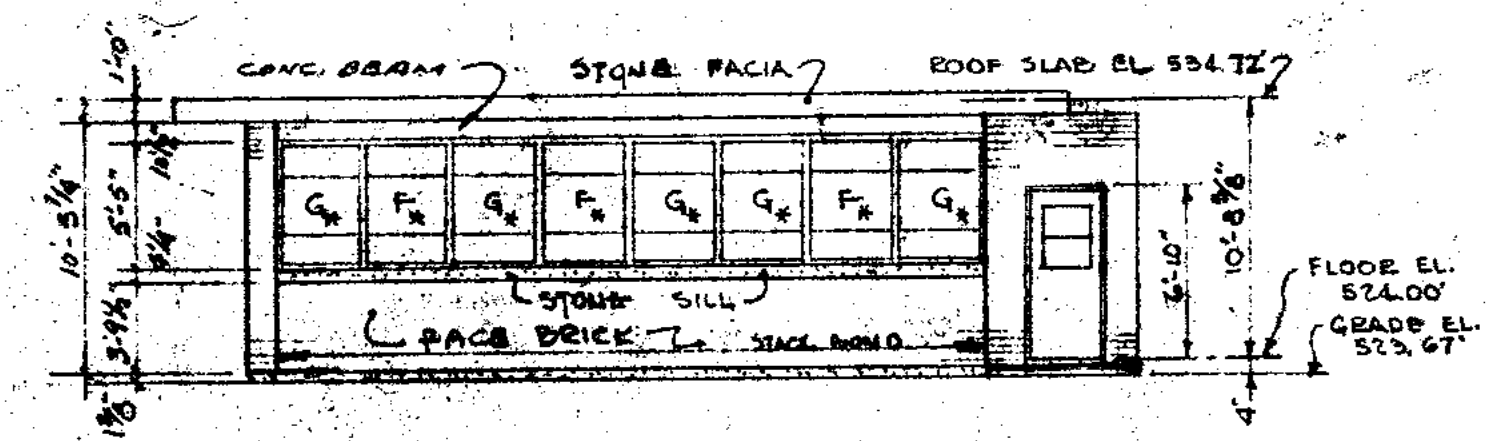
ELEVATION D



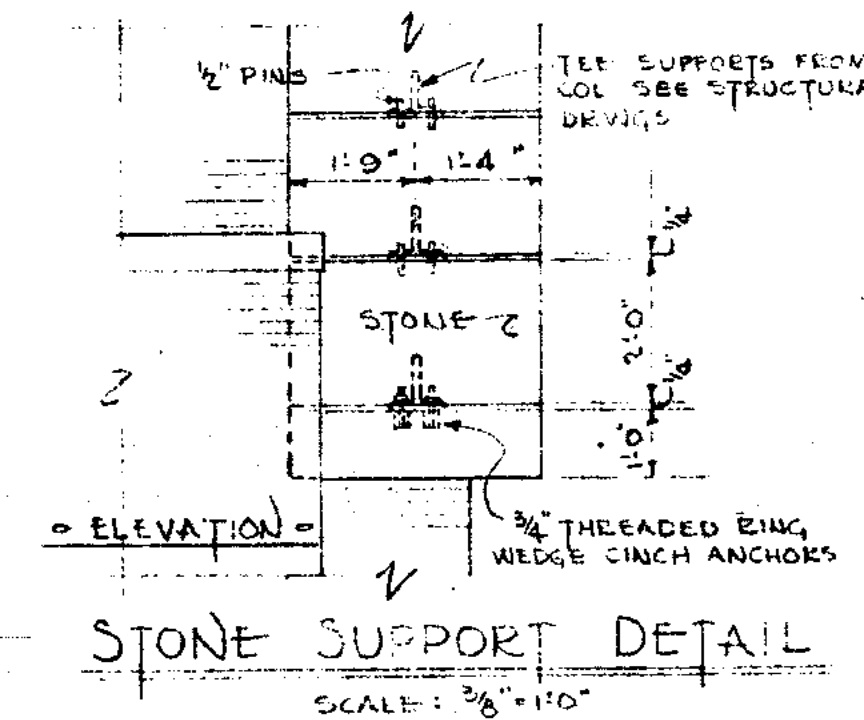
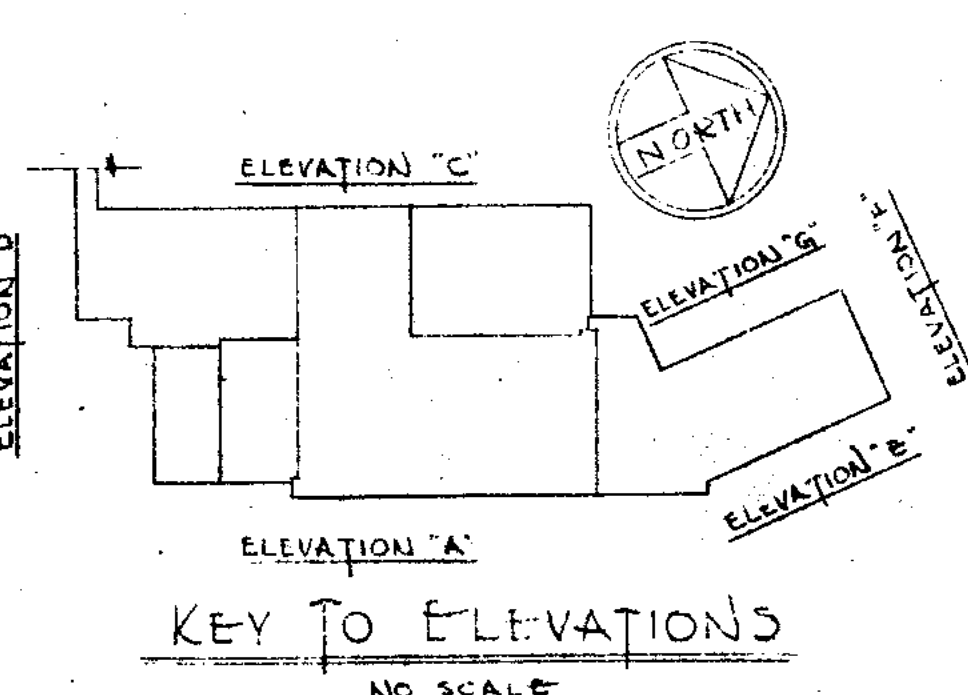
ELEVATION E



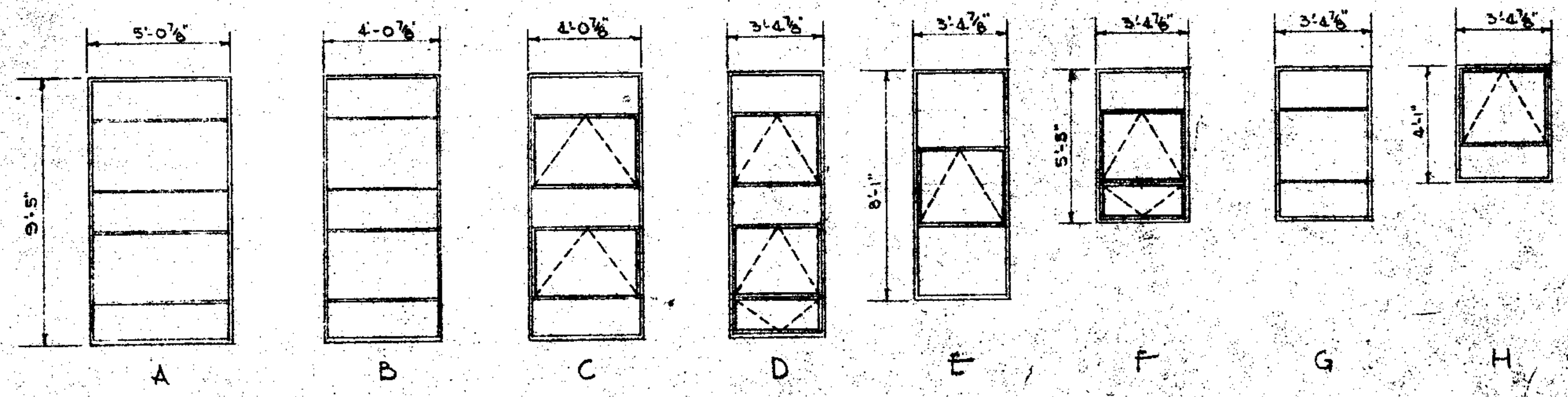
ELEVATION F



ELEVATION G

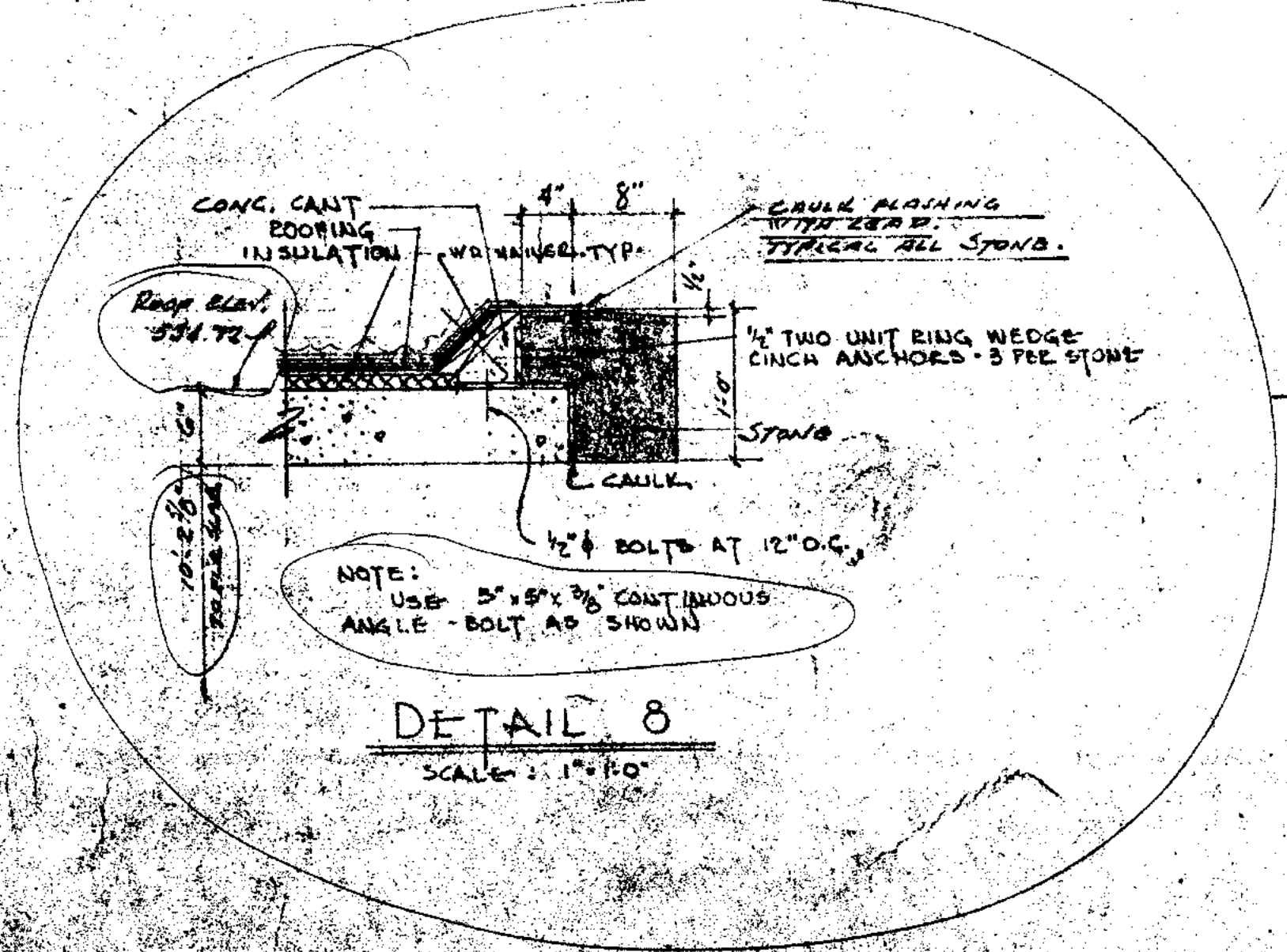


STONE SUPPORT DETAIL SCALE: 3/8\"/>



WINDOW SCHEDULE NO SCALE

NOTE:  
 ALL WINDOWS TO BE STEEL ARCHITECTURAL PROJECTED. SEE WINDOW DETAILS, MULLION DETAILS & WALL SECTIONS.  
 ALL WINDOW MULLIONS TO HAVE INTERIOR COVER PLATES.  
 ALL WINDOWS MARKED THUS, \* TO BE GLAZED WITH TWINLOW'S GLASS AND 1/4\"/>



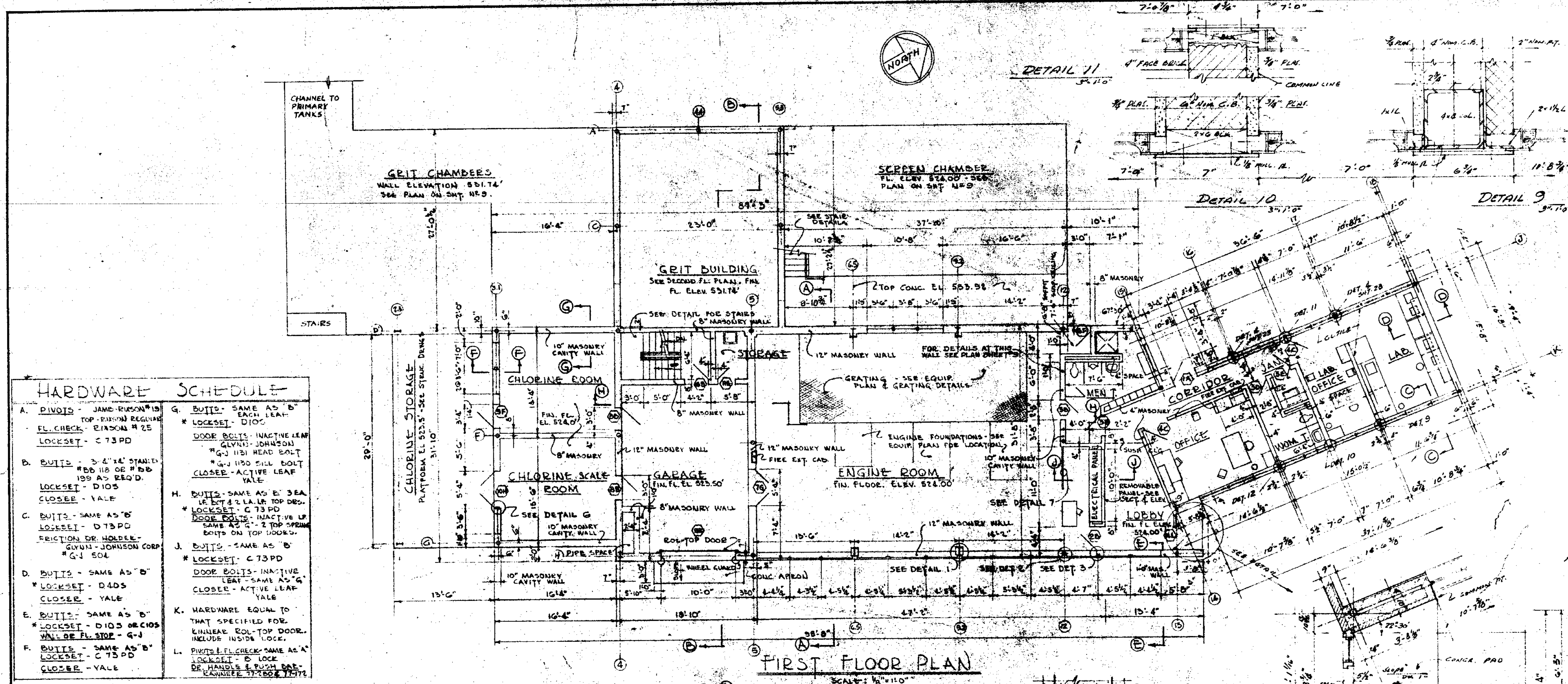
DETAIL 8 SCALE: 1\"/>

NOTE:  
 FOR FLOOR PLANS AND DOOR & HARDWARE SCHEDULE SEE SHEET NO. 21.  
 FOR WALL SECTIONS & DETAILS SEE SH. NO. 22 & 23 FOR LINTELS SEE NOTE SHEET NO. 17

FROM CONTRACT # 9  
 1954-1957  
 DIVISION A SEWAGE TREATMENT PLANT  
 (PRIMARY ROOFING AS EXISTS)

<b>JOLET ILLINOIS</b> <b>SEWAGE TREATMENT PLANT</b> <b>MAIN CONTROL &amp; GRIT BUILDINGS</b> <b>ARCHITECTURAL ELEVATIONS</b>	
DRAWN BY: R.M. J.P. DATE: JAN. 1951 CHECKED BY: H.S.M. L.F.E. APPROVED BY: R.A.S.	<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.
SCALE: 1/8" = 1'-0" UNLESS NOTED OTHERWISE REVISED: APRIL 1954 SHEET NO. 20 OF 45 SHEETS	DIVISION A - CONTRACT # 9





**HARDWARE SCHEDULE**

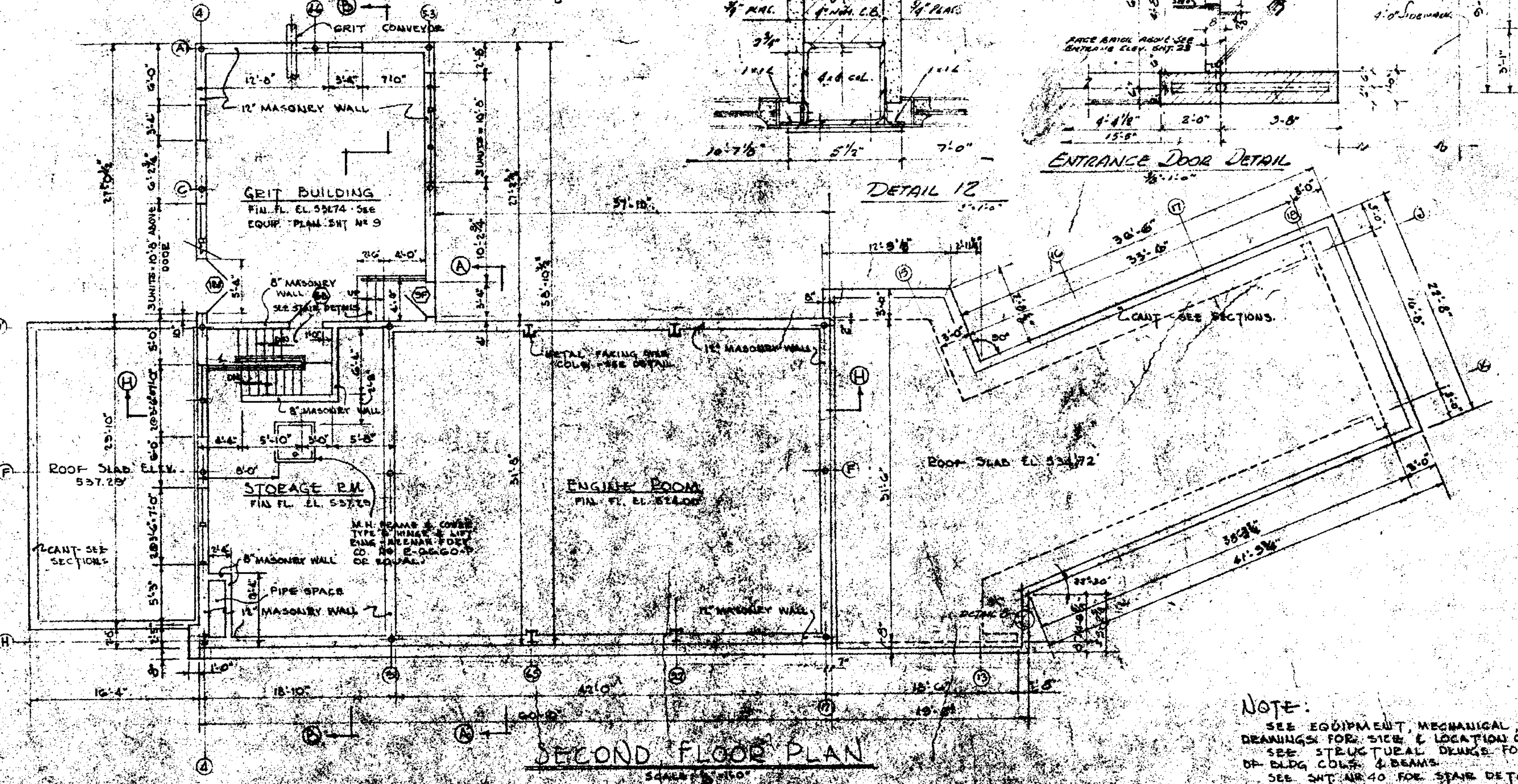
- A. PIVOTS - JAME-RUSON #18 TOP FINISH BRASS FL. CHECK - FINISH #25 LOCKSET - C-73 PD
- B. BUTTS - 3/4" x 1/4" STAINED #88 1/8" OR #88 1/8" AS REQ'D. LOCKSET - D105 CLOSER - YALE
- C. BUTTS - SAME AS B' LOCKSET - D13 PD FRICTION DR. HOLDER - GUYIN-JOHNSON COP #41 504
- D. BUTTS - SAME AS B' LOCKSET - D40S CLOSER - YALE
- E. BUTTS - SAME AS B' LOCKSET - D103 OR D105 WALL OR FL. STOP - G-J
- F. BUTTS - SAME AS B' LOCKSET - C-73 PD CLOSER - YALE
- G. BUTTS - SAME AS B' LOCKSET - D103
- H. BUTTS - SAME AS B' LEAD & 2 L.A. TOP DES. LOCKSET - C-73 PD DOOR BOLTS - INACTIVE LEAF SAME AS G' 2 TOP SPRING BUTTS ON TOP DOORS.
- I. BUTTS - SAME AS B' LOCKSET - C-73 PD DOOR BOLTS - INACTIVE LEAF - SAME AS G' CLOSER - ACTIVE LEAF - YALE
- J. HARDWARE EQUAL TO THAT SPECIFIED FOR KINNEAR COL. TOP DOOR. INCLUDES INSIDE LOCK.
- K. PIVOTS & FL. CHECK - SAME AS A' LOCKSET - B LOCK DE. HANDLE & PUSH BAR - KAWAUCHE #3308 1011

\* LOCKSETS - SCHLAGE - PLYMOUTH SERIES - SCHEDULE B, C, D  
 HARDWARE FINISH - ALL BUTTS EXPOSED TO WEATHER OR BELOW FIRST FLOOR TO BE SOLID BRASS OR BRONZE WITH SATIN CHROME FINISH. ALL OTHER BUTTS TO BE STEEL WITH SATIN CHROME FINISH. CLOSERS SHALL BE STEEL FINISH FOR PAINTING. FRONT DOOR HORN TO BE ALUMINUM WITH SATIN CHROME FINISH. ALL OTHER HORN SHALL HAVE SATIN CHROME FINISH.  
 THRESHOLDS - PROVIDE INTERLOCKING THRESHOLDS ON ALL EXTERIOR DOORS. PROVIDE METAL SADDLE THRESHOLDS IN DOORWAYS BETWEEN ROOMS HAVING FLOOR FINISHES THAT DIFFER AND ALSO BETWEEN THE GARAGE & STAIRWELL, GARAGE & STORAGE, GARAGE & CHLORINE RM, & GARAGE & SCALE ROOM. THRESHOLDS TO BE ALUMINUM OR BRASS.  
 ASTRAEGALS - PROVIDE ASTRAEGALS ON WEATHER SIDE OF ALL EXTERIOR DOUBLE DOORS.

**DOOR SCHEDULE**

MARK	SIZE	THICK	MATERIAL	REMARKS
1.	3'-0" x 6'-8"	2 1/4"	WOOD - BIRCH	FLUSH PANEL - EXTERIOR GRADE - LIGHT TOP.
2.	3'-0" x 6'-8"	1 3/4"	WOOD - BIRCH	FLUSH PANEL
3.	2'-4" x 6'-8"	1 3/4"	WOOD - BIRCH	FLUSH PANEL
4.	3'-0" x 6'-8"	1 3/4"	WOOD - BIRCH	FLUSH PANEL - LIGHT TOP
5.	2'-4" x 6'-8"	1 3/4"	WOOD - BIRCH	FLUSH PANEL - LOUVER BOT.
6.	2'-8" x 7'-0"	1 3/4"	HOLLOW METAL	FLUSH PANEL - LIGHT TOP
7.	2'-2'-6" x 7'-0"	1 3/4"	HOLLOW METAL	FLUSH PANEL
8.	2'-8" x 7'-0"	1 3/4"	HOLLOW METAL	FLUSH PANEL - LIGHT TOP GAS PROOF #
9.	3'-0" x 7'-0"	1 3/4"	HOLLOW METAL	FLUSH PANEL - LIGHT TOP
10.	2'-2'-6" x 7'-0" & 2'-2'-6" x 4'-10"	1 3/4"	HOLLOW METAL	FLUSH PANEL - LIGHT TOP SPECIAL DOORS ABOVE - SEE DET.
11.	2'-4" x 7'-0"	1 3/4"	HOLLOW METAL	FLUSH PANEL - LOUVER BOT
12.	2'-2'-6" x 7'-0"	1 3/4"	HOLLOW METAL	FLUSH PANEL - LIGHT TOP
13.	5 PANEL METAL OVERHEAD DOOR - KINNEAR 10'-0" x 10'-8" MASONRY OPNG - WEATHER TIGHT ALL AROUND.			
14.	3'-0" x 6'-8" Door in Entrance			SEE DETAIL - ELEVATION
15.	3'-0" x 7'-0"	1 3/4"	HOLLOW METAL	FLUSH PANEL - FIXED TRANSOM TOP
16.	3'-0" x 6'-8"	1 3/4"	HOLLOW METAL	FLUSH PANEL

ALL DOOR FRAMES EXCEPT FRONT ENTRANCE TO BE COMBINATION STEEL FRAME & BUCE WITH MASONRY WINGS. PEIMS METAL DOORS FOR PAINTING. FRONT DOOR FRAME TO BE ADMITTED SATIN CHROME FINISH ALON SECTIONS FINISH OF ROOM.  
 ALL LOUVERS TO BE ALUCO. CO. #C88 OR EQUAL. USE 18" x 12" LOUVER.  
 ALL LIGHT TOP DOORS TO HAVE LIGHTS 12" LESS IN WIDTH THAN DE. WIDTH. 50" HIGH.  
 \* PROVIDE CONTINUOUS SPONGE RUBBER ON 3 SIDES OF DOOR ATTACH TO JAMB AND A SPONGE RUBBER SEAL ON BOT. OF DOOR ATTACH TO BOT. CAIL OF ROOM.

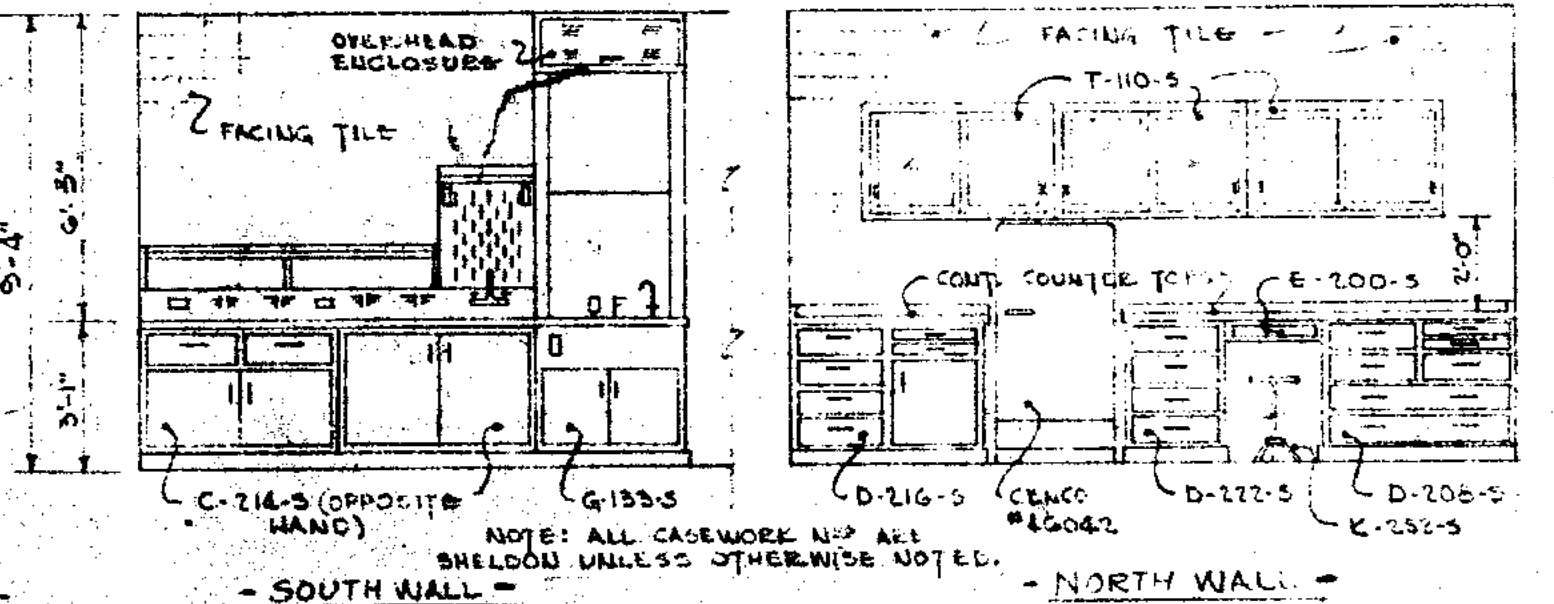


**SECOND FLOOR PLAN**

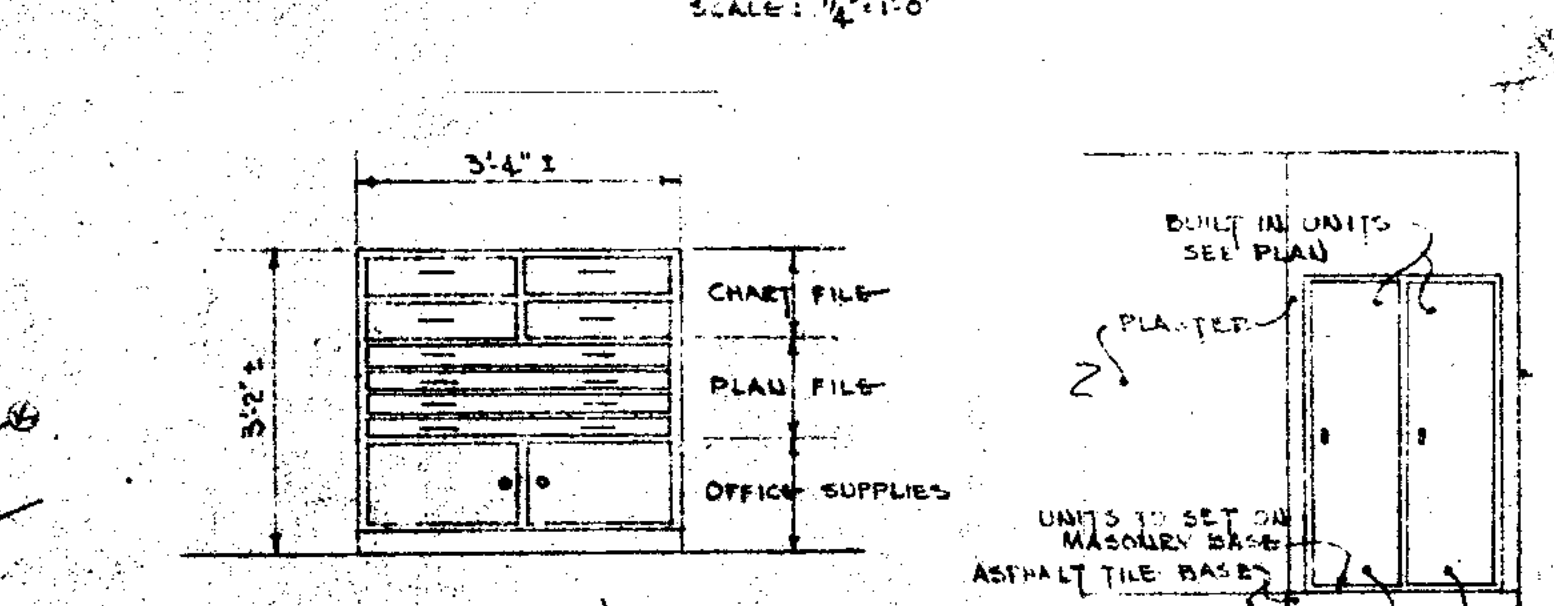
ALL DOOR FRAMES EXCEPT FRONT ENTRANCE TO BE COMBINATION STEEL FRAME & BUCE WITH MASONRY WINGS. PEIMS METAL DOORS FOR PAINTING. FRONT DOOR FRAME TO BE ADMITTED SATIN CHROME FINISH ALON SECTIONS FINISH OF ROOM.  
 ALL LOUVERS TO BE ALUCO. CO. #C88 OR EQUAL. USE 18" x 12" LOUVER.  
 ALL LIGHT TOP DOORS TO HAVE LIGHTS 12" LESS IN WIDTH THAN DE. WIDTH. 50" HIGH.  
 \* PROVIDE CONTINUOUS SPONGE RUBBER ON 3 SIDES OF DOOR ATTACH TO JAMB AND A SPONGE RUBBER SEAL ON BOT. OF DOOR ATTACH TO BOT. CAIL OF ROOM.

ROOM SCHEDULE					
ROOM	FLOOR	FLOOR	WALLS	CEILING	REMARKS
LOBBY	ASPHALT TILE	NONE	INTERIOR BRICK	ACOUS. TICAL TILE	
CORRIDOR	ASPHALT TILE	NONE	INTERIOR BRICK	SUSP. ACOUS. TICAL TILE	
OFFICE	ASPHALT TILE	ASPHALT TILE	PLASTER	SUSP. ACOUS. TICAL TILE	
WOM. T.	UNGLAZED INENGE TILE	GLAZED FAIENCE TILE	GLAZED FAIENCE TILE	SUSP. ACOUS. TICAL TILE	WALL TILE 4'5" HANDBOY - PLASTER ABOVE.
JAN. CLO.	ASPHALT TILE	ASPHALT TILE	PLASTER	PAINT	
LAB OFF.	ASPHALT TILE	ASPHALT TILE	PLASTER	SUSP. ACOUS. TICAL TILE	
LABORATORY	ASPHALT TILE	FACING TILE	FACING TILE	SUSP. ACOUS. TICAL TILE	
MEN'S T.	QUARRY TILE	QUARRY TILE	FACING TILE	SUSP. ACOUS. TICAL TILE	FUR. DOWN & PLASTER OVER SHIN. & LOCKERS
ENG. RM.	QUARRY TILE	QUARRY TILE	FACING TILE	ACOUS. TICAL TILE	WALL TILE 11'4" HANDBOY - SCOT. INT. BRICK ABOVE.
GARAGE	HARDENED CONC.	NONE	INT. BRICK	PAINT	
GAR. STORAGE	HARDENED CONC.	NONE	PAINTED CONC. INT. BRICK	PAINT	SEE SECTION E-B
CH. RM.	HARDENED CONC.	NONE	PAINTED CONC. INT. BRICK	PAINT	SEE SECTION G-G
SCALE RM.	HARDENED CONC.	NONE	INT. BRICK	PAINT	
TAILS	CONC. FILLED	NONE	INT. BRICK & PAINTED CONC.	PAINT	ABRASIVE AGGREGATE ON SURFACE OF STAIRS AND LANDINGS
GRIT BLDG.	HARDENED CONC.	NONE	INT. BRICK	PAINT	
STORAGE	HARDENED CONC.	CONC. COVE.	INT. BRICK	PAINT	
DIGESTER BLDG.	HARDENED CONC.	NONE	PAINTED CONC. INT. BRICK	PAINT	SEE PLAN

NOTE: ALL PLASTERED SURFACES SHALL BE PAINTED.



**LABORATORY WALL ELEV.**



NOTE: CABINET TO BE 2'-4" DEEP.  
 NO SCALE

NOTE:  
 SEE EQUIPMENT MECHANICAL & ELECTRICAL DRAWINGS FOR SIZE & LOCATION OF ALL EQUIP.  
 SEE STRUCTURAL DRAWING FOR SIZE & LOCATION OF BLDG. COLS. & BEAMS.  
 SEE SHEET NO. 10 FOR STAIR DETAILS.  
 SEE SECTIONS & DETAILS - SEE SHEET NO. 21.  
 SEE SHEET NO. 22 AND 23 FOR ELEVATIONS & WINDOW SCHEDULES.  
 SHEET NO. 20.

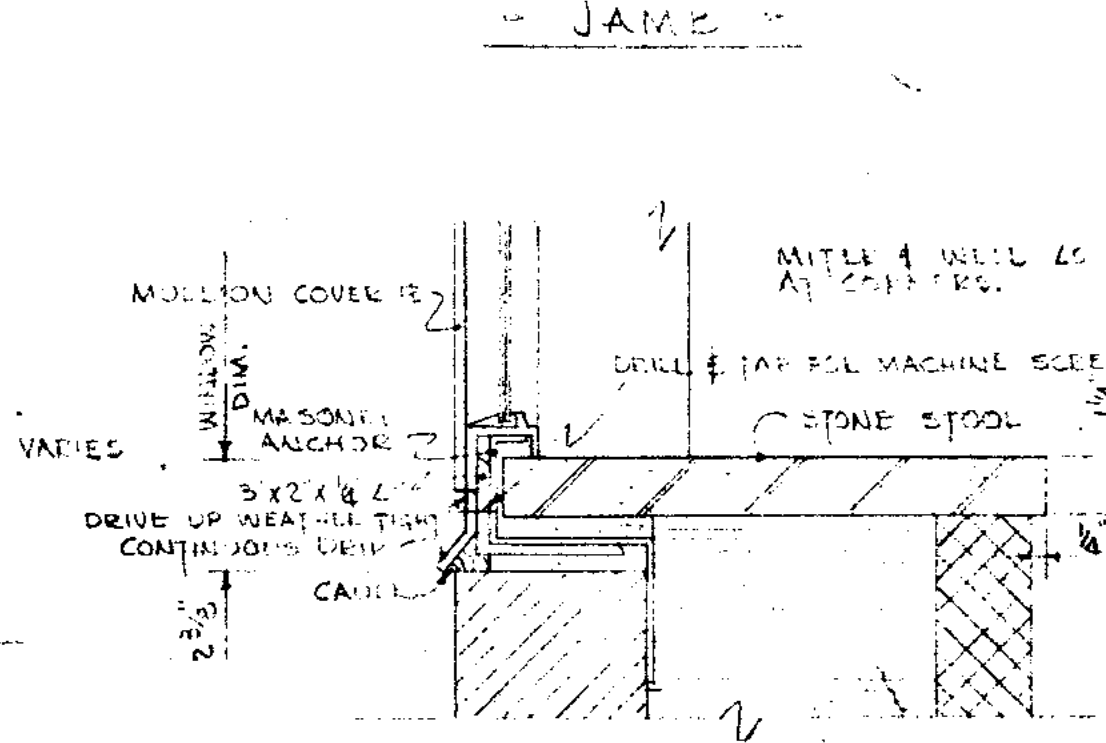
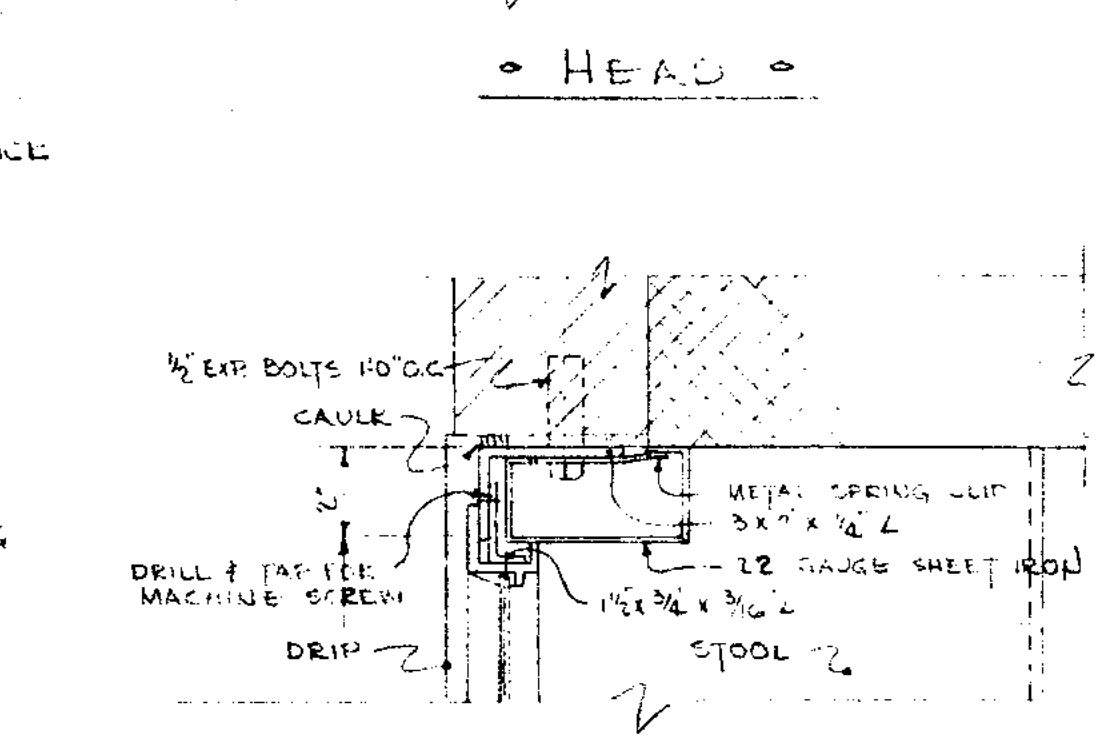
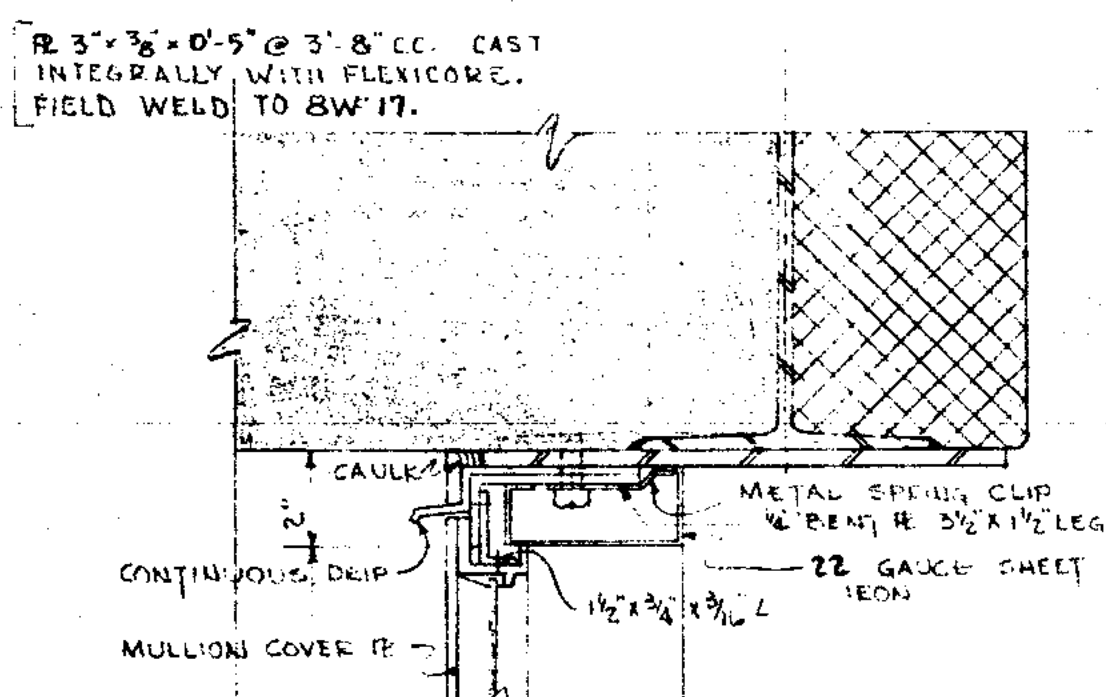
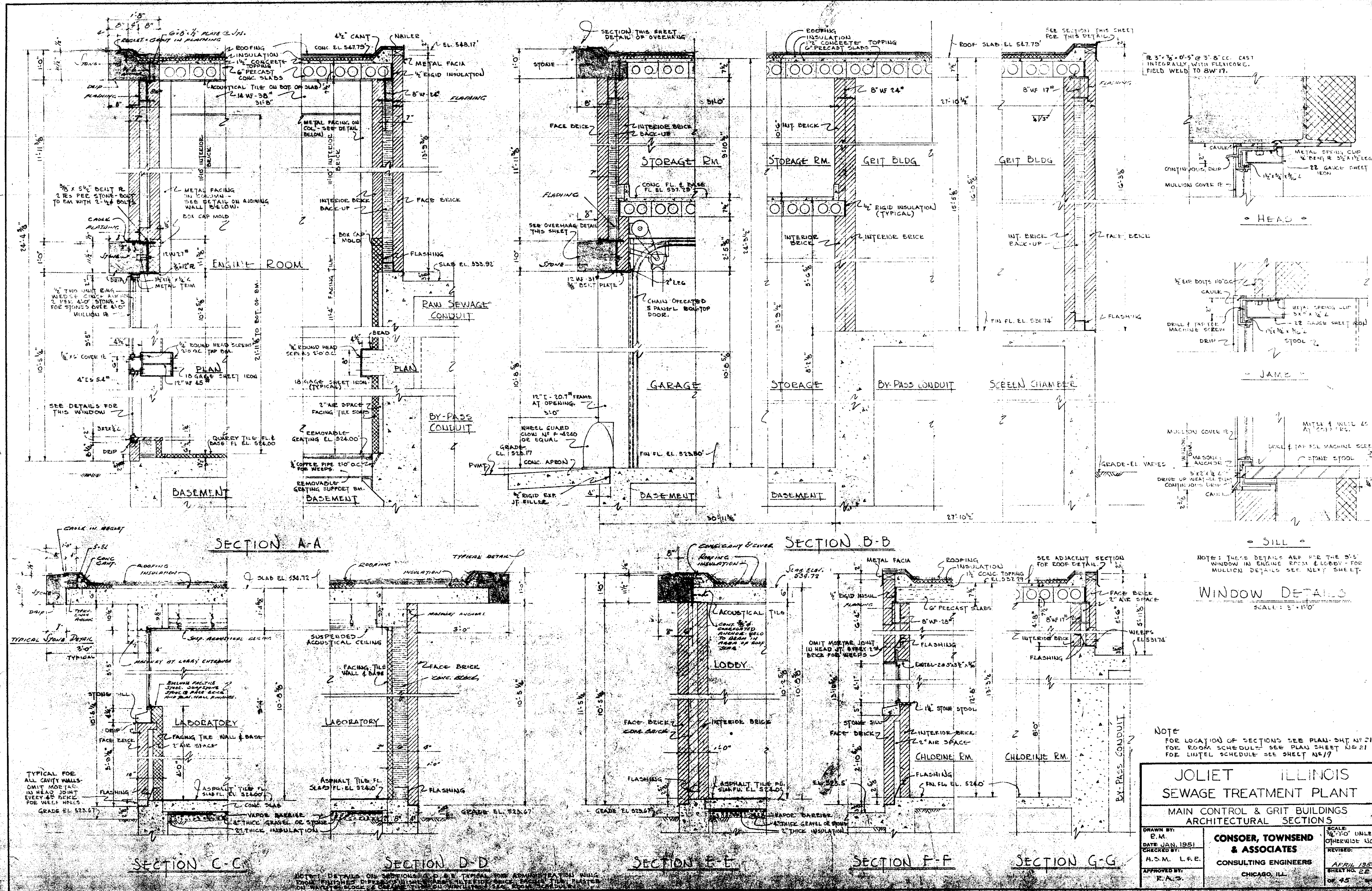
**JOLIET ILLINOIS SEWAGE TREATMENT PLANT**  
 MAIN CONTROL & GRIT BUILDINGS - ARCHITECTURAL PLANS & DETAILS

DRAWN BY: J.P.  
 DATE: JAN. 1951  
 CHECKED BY: H.S.M. L.F.R.

**CONSOER, TOWNSEND & ASSOCIATES**  
 CONSULTING ENGINEERS  
 CHICAGO, ILL.

SCALE: AS NOTED  
 REVISION: APRIL 1951  
 SHEET NO. 21 OF 25





NOTE: THESE DETAILS ARE FOR THE 3'-5" WINDOW IN ENGINE ROOM & LOBBY - FOR MULLION DETAILS SEE NEXT SHEET.

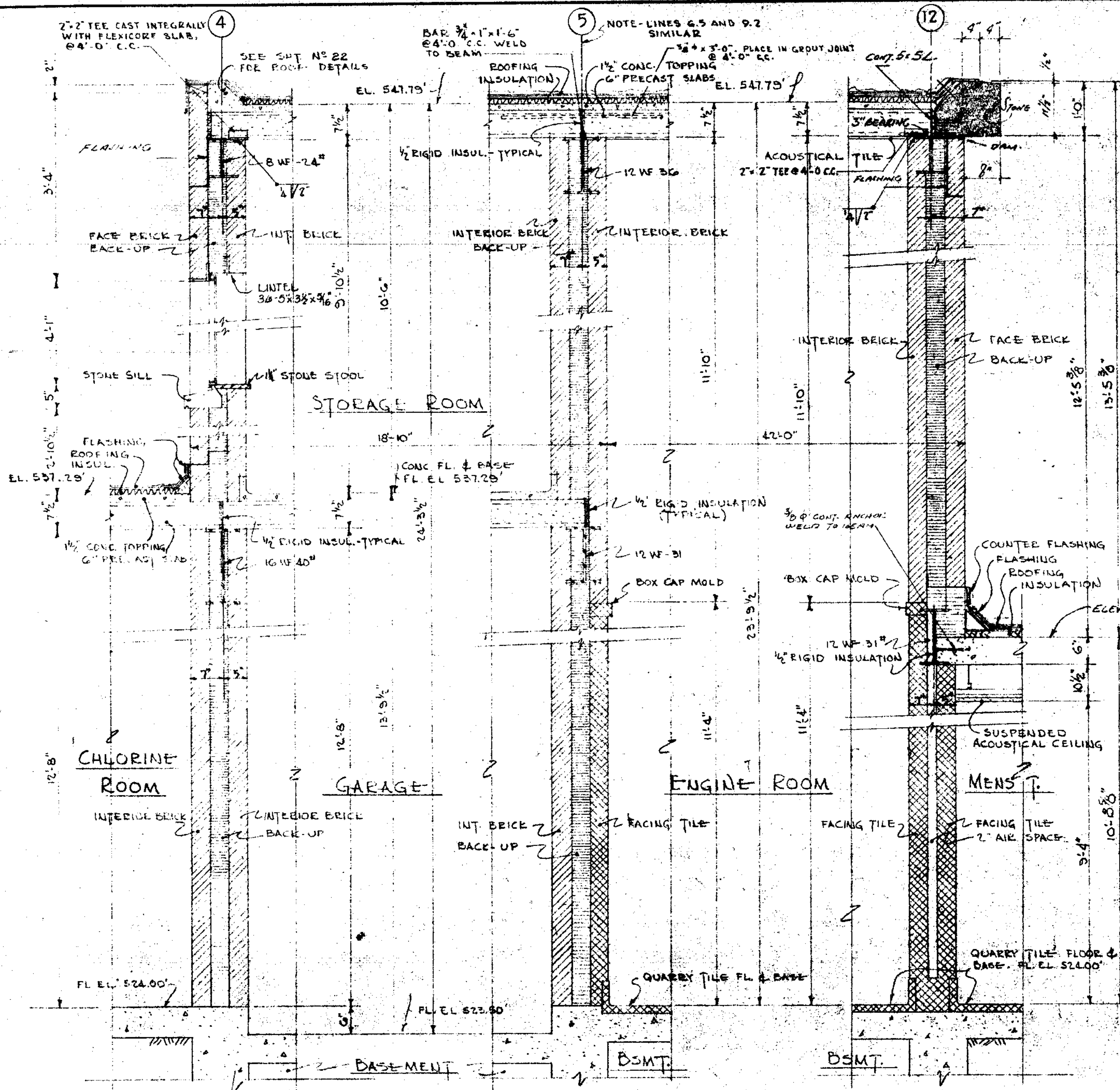
WINDOW DETAILS  
SCALE: 3/4"=1'-0"

NOTE FOR LOCATION OF SECTIONS SEE PLAN SHEET NO. 21 FOR ROOM SCHEDULES SEE PLAN SHEET NO. 21 FOR LINTEL SCHEDULES SEE SHEET NO. 19

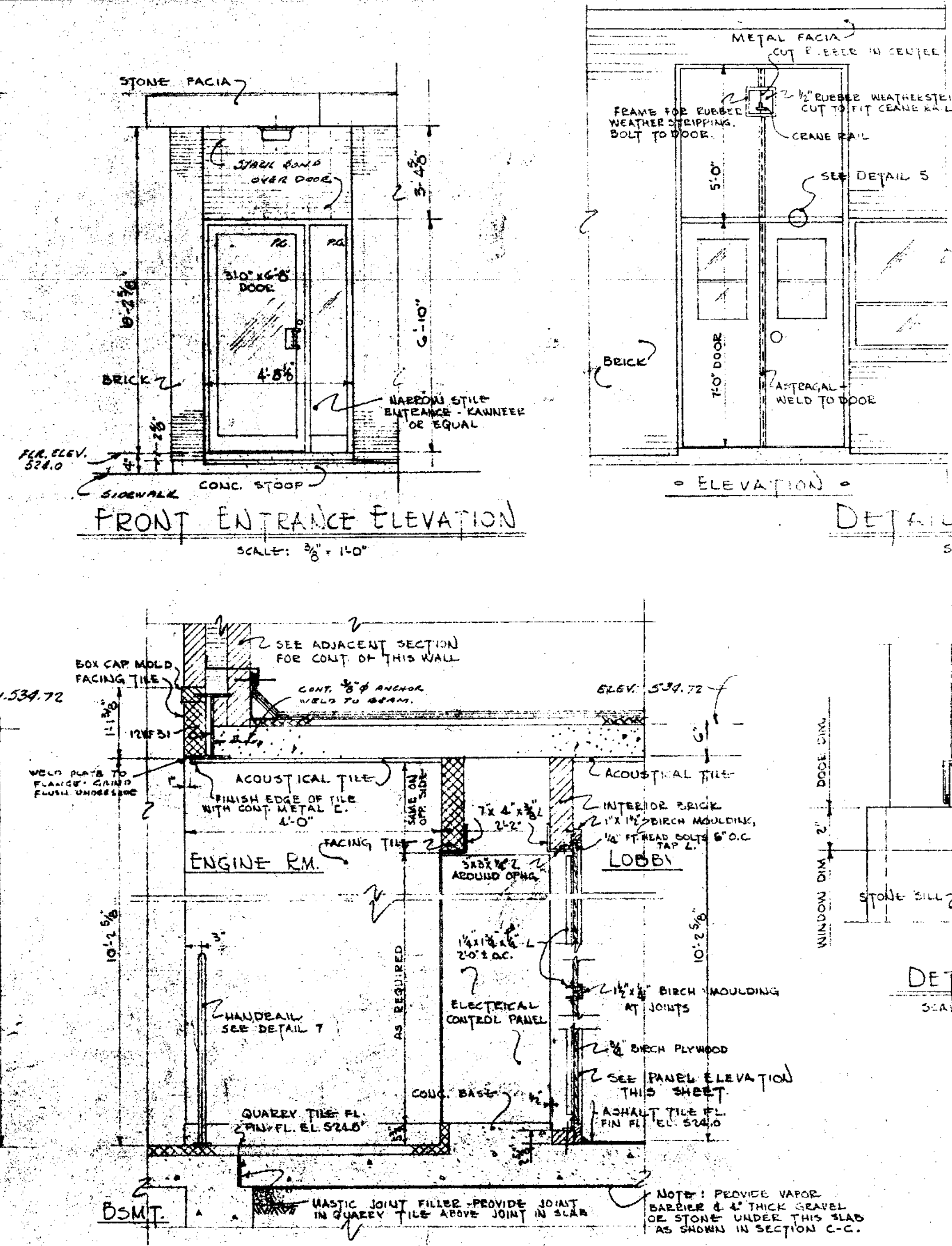
<b>JOLIET ILLINOIS SEWAGE TREATMENT PLANT</b>	
<b>MAIN CONTROL &amp; GRIT BUILDINGS ARCHITECTURAL SECTIONS</b>	
DRAWN BY: P.M. DATE: JAN. 1951 CHECKED BY: A.S.M. L.F.E. APPROVED BY: P.A.S.	<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.
SCALE: 3/4"=1'-0" UNLESS OTHERWISE NOTED REVISIONS: APRIL 1954 SHEET NO. 22 OF 45 SHEETS	

NOTE: DETAILS ON SECTIONS C & E TYPICAL FOR ADMINISTRATION BUILDING EXCEPT FINISHED FLOOR FINISHES WHICH ARE INTERIORS FINISHES FINISHED ON INTERIORS FINISHES SEE ARCHITECTURAL SECTION C & E

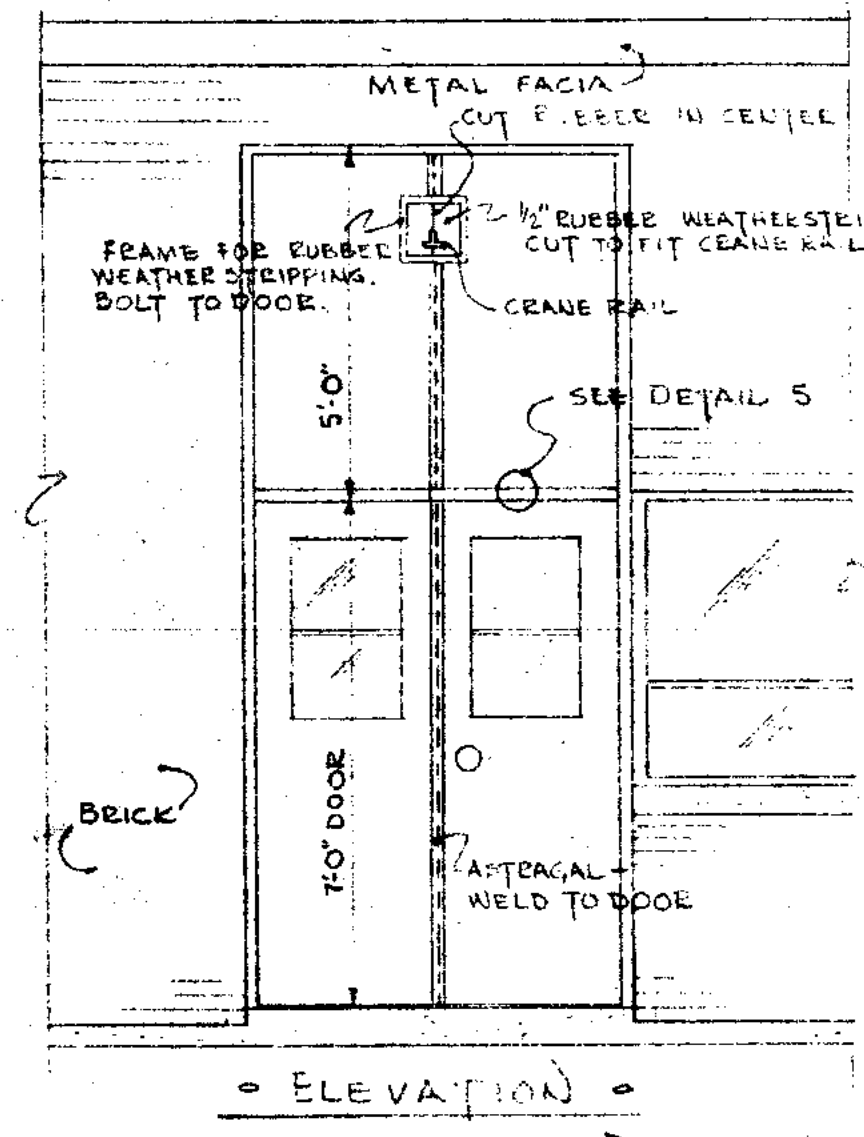




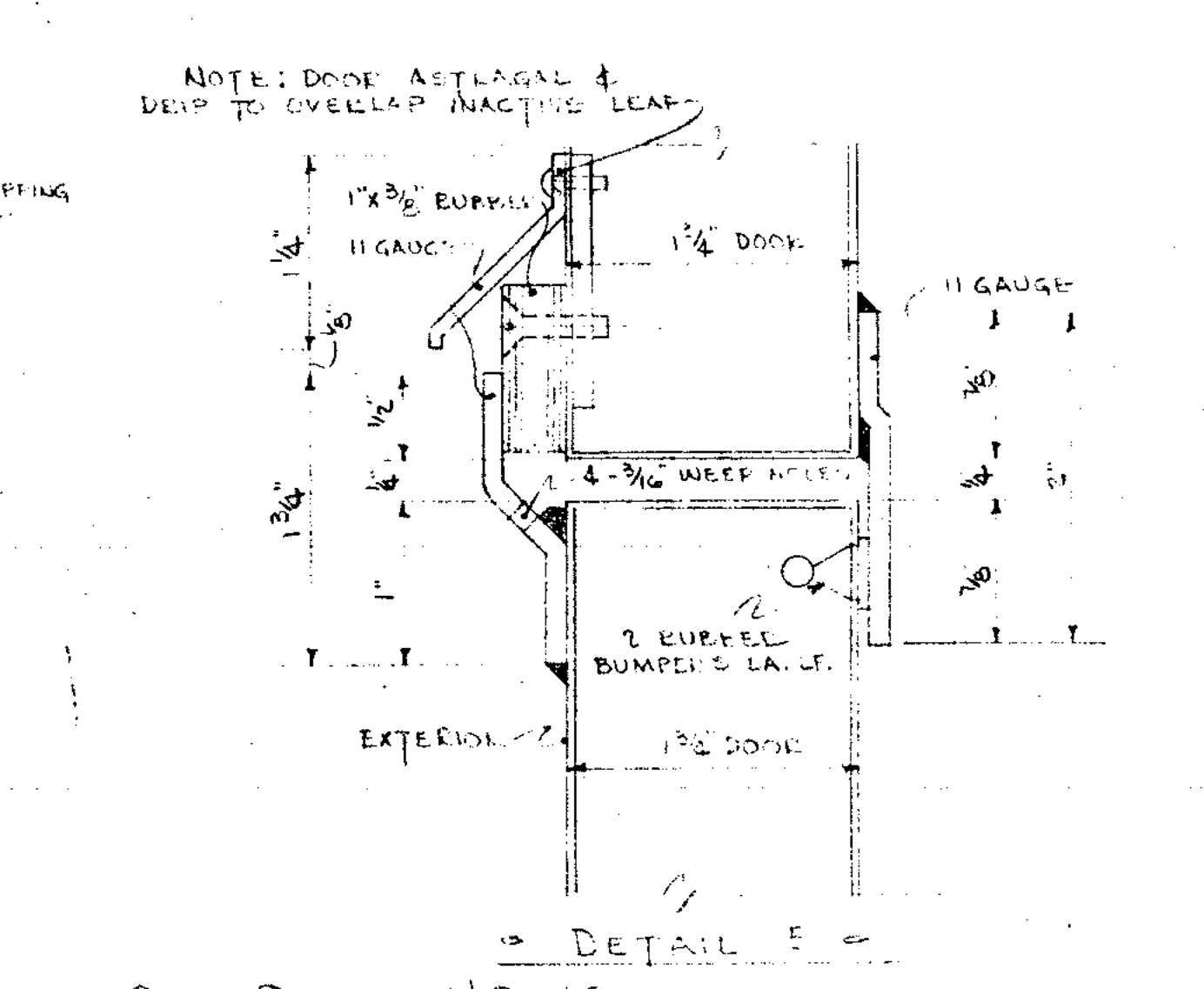
SECTION H-H  
SCALE: 3/8" = 1'-0"



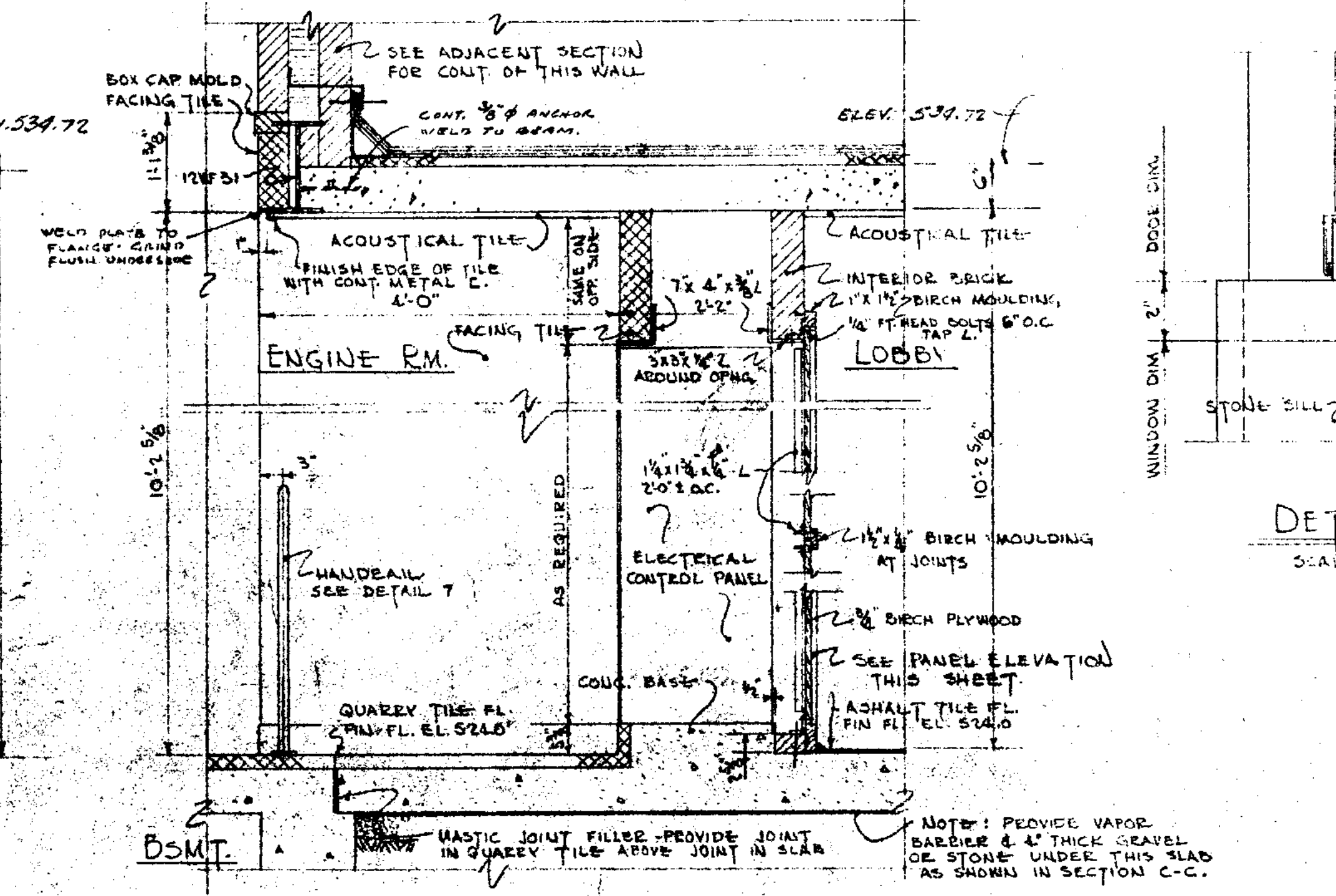
SECTION J-J  
SCALE: 3/8" = 1'-0"



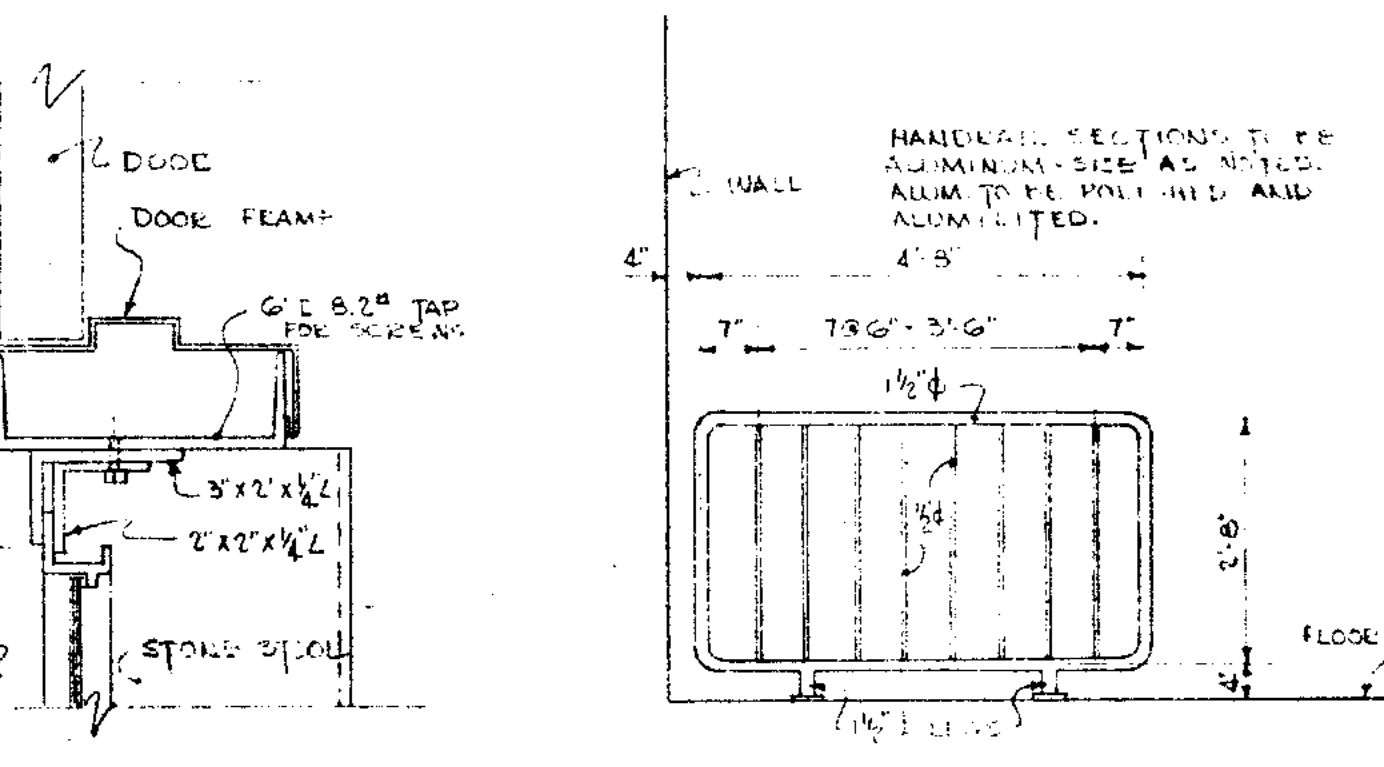
FRONT ENTRANCE ELEVATION  
SCALE: 3/8" = 1'-0"



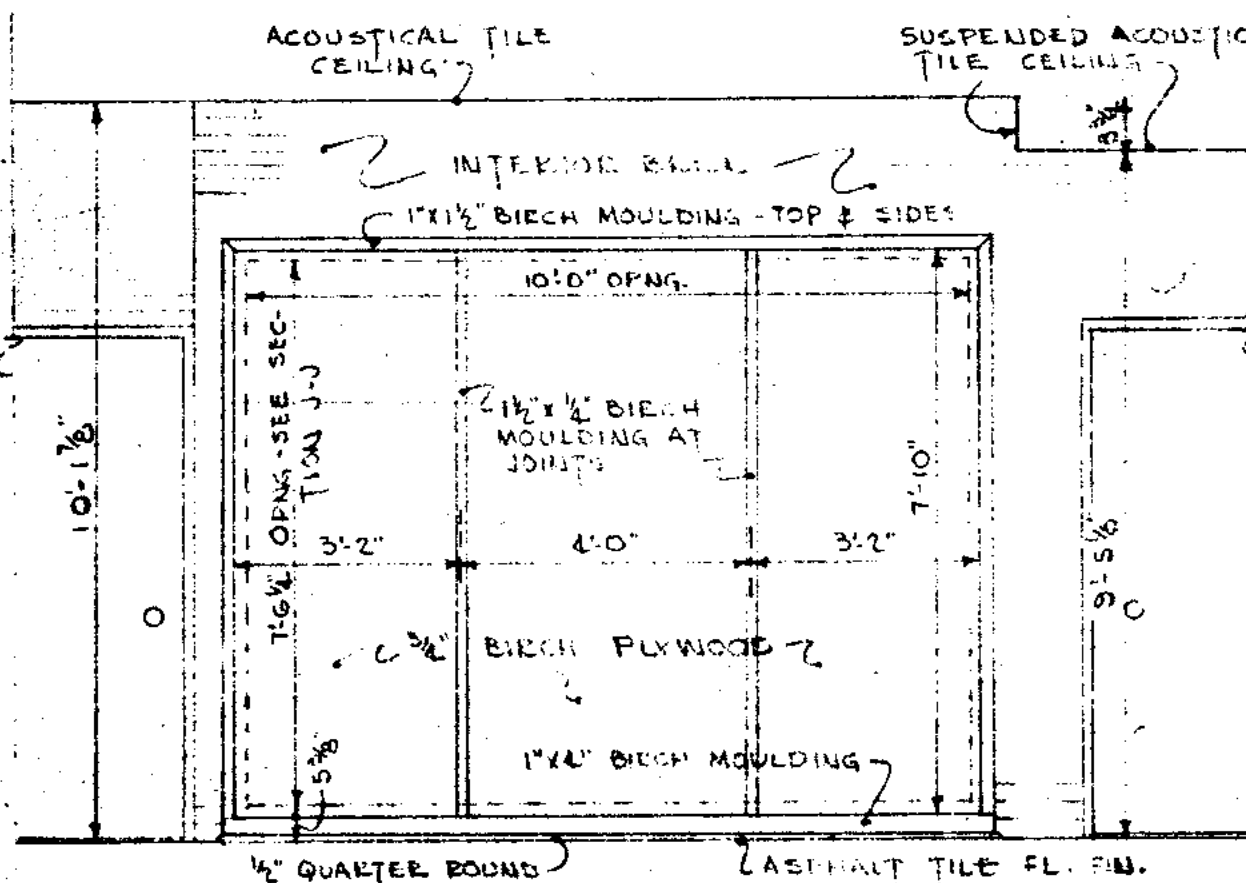
DETAILS OF DOOR NO 10  
SCALE: 3/8" = 1'-0"



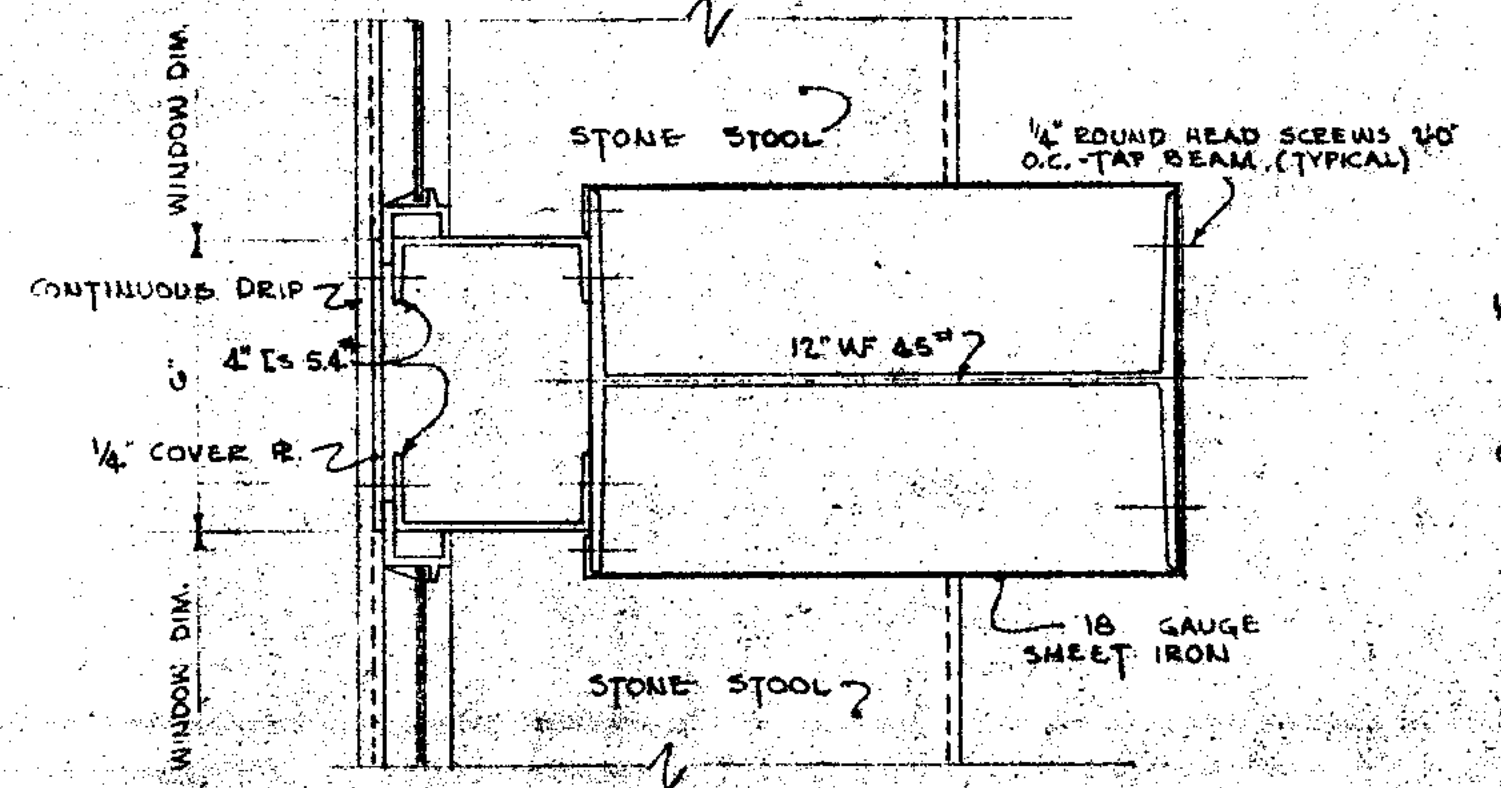
DETAIL 6  
SCALE: 3/8" = 1'-0"



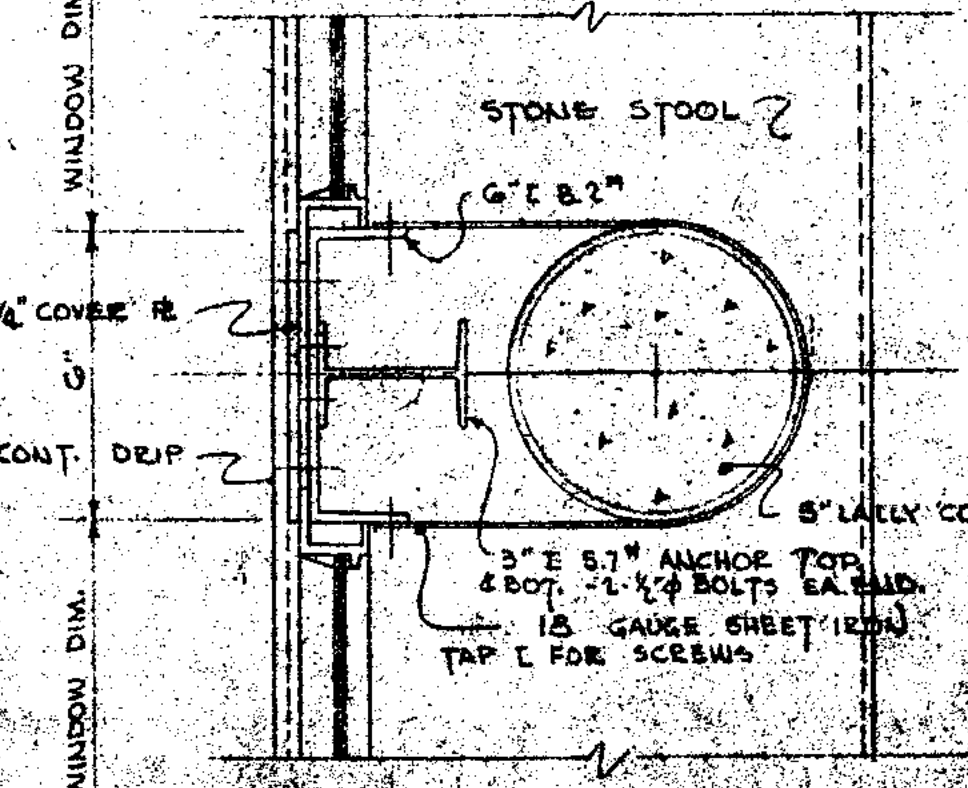
DETAIL 7  
SCALE: 3/8" = 1'-0"



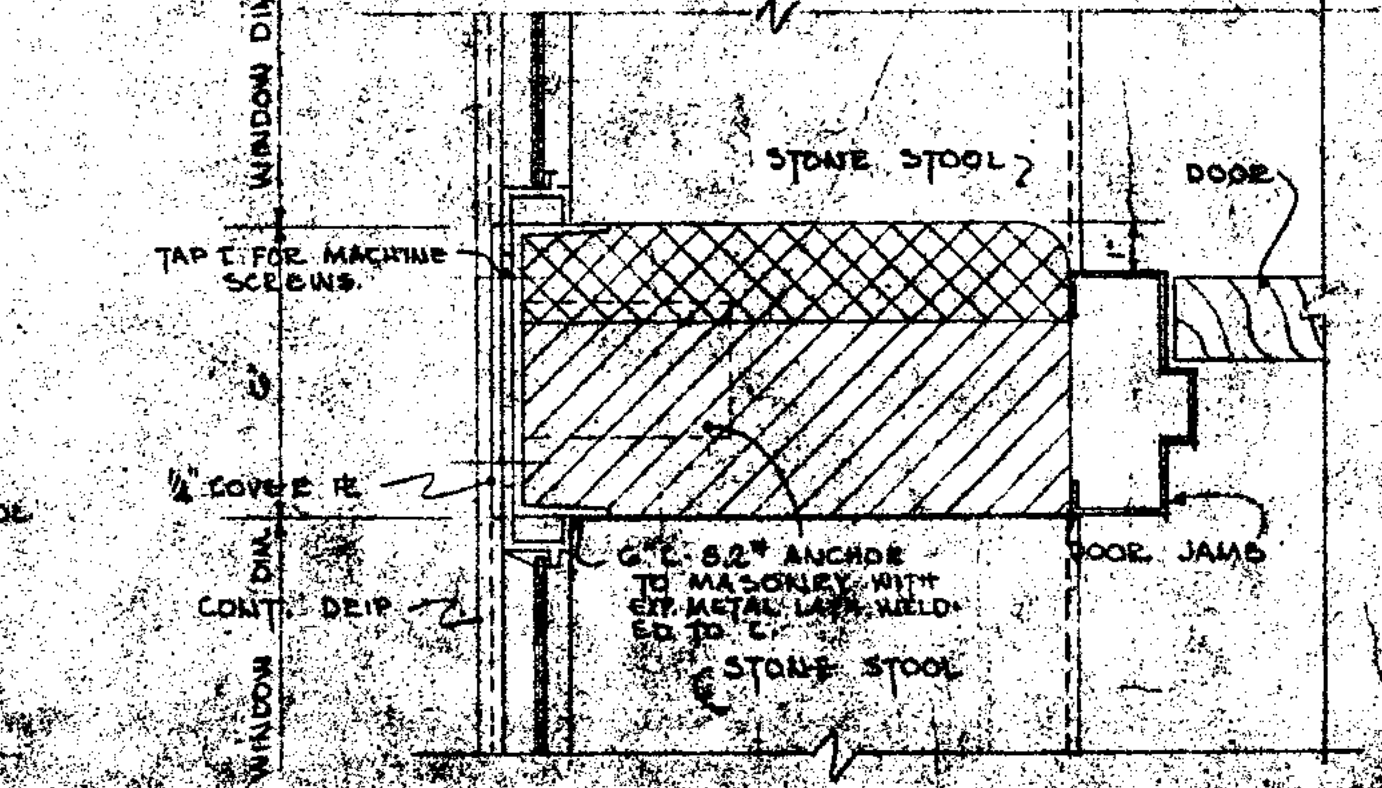
LOBBY PANEL ELEVATION  
SCALE: 3/8" = 1'-0"



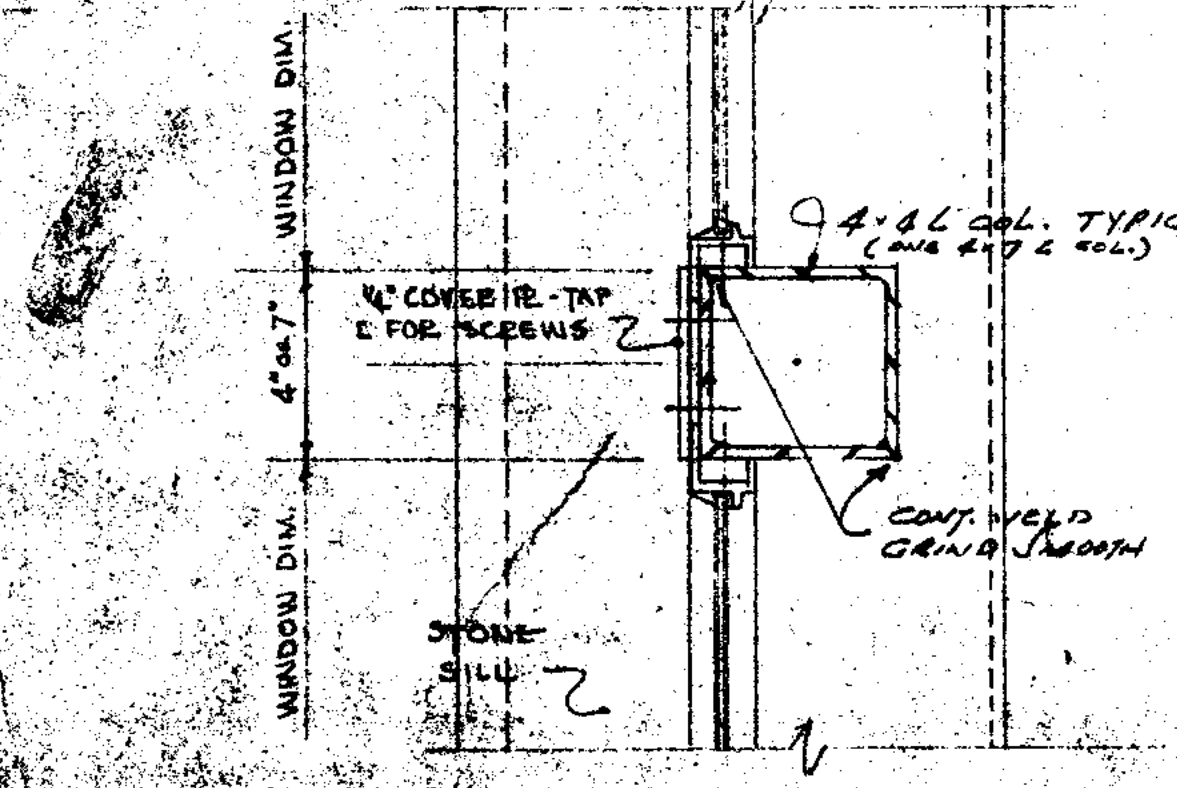
DETAIL 1



DETAIL 2



DETAIL 3



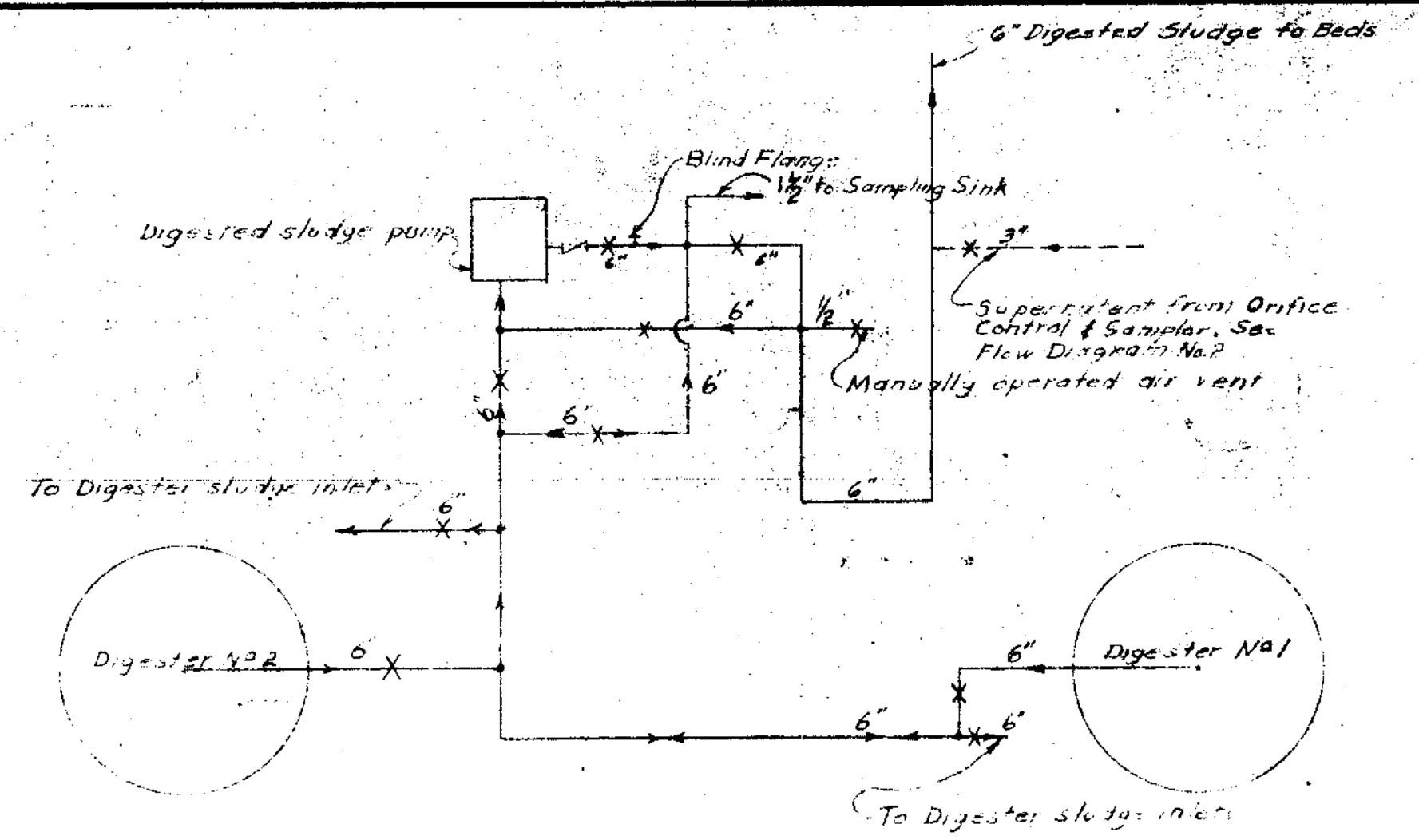
DETAIL 4

WINDOW MULLION DETAILS

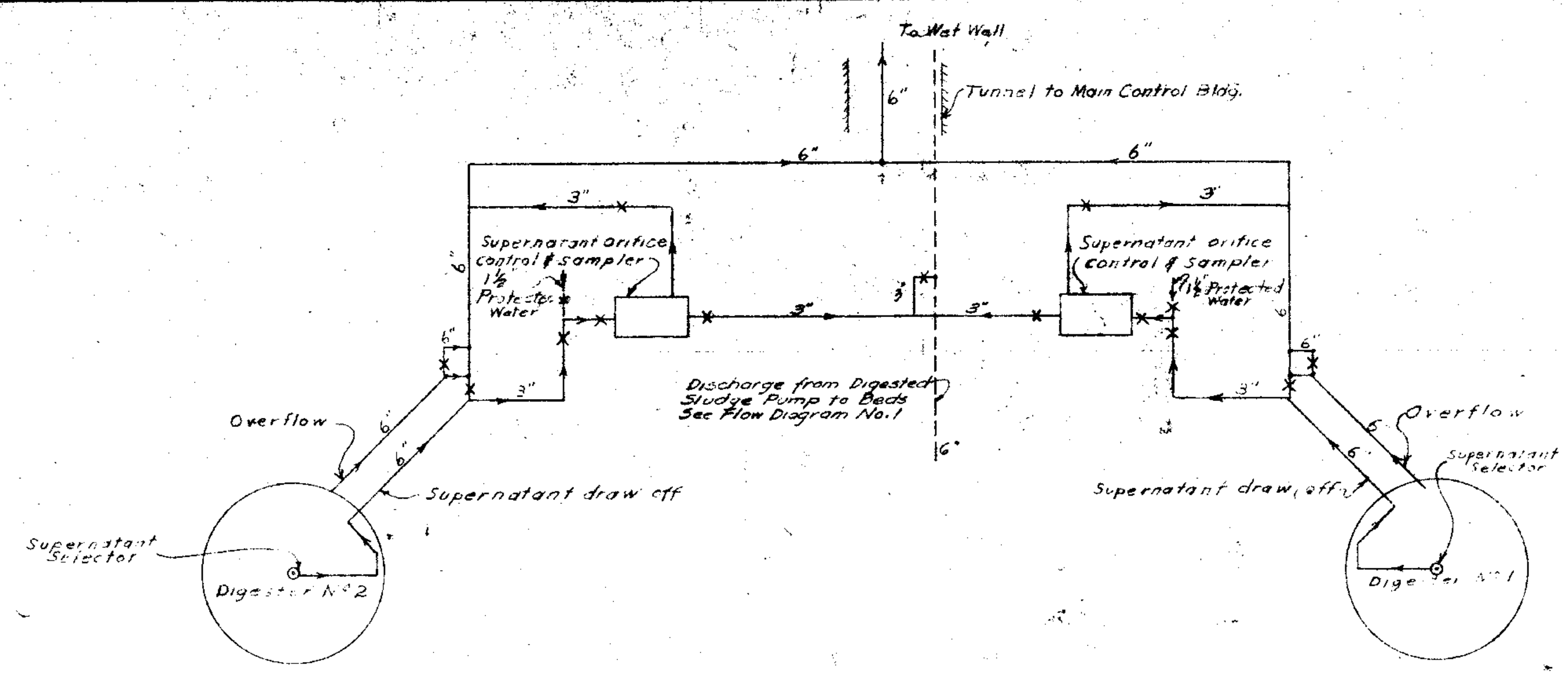
NOTE: FOR LOCATION OF SECTIONS & DETAILS SEE PLAN-SHT. NO. 21 FOR ROOM SCHEDULE SEE SHEET NO. 21 FOR LITEL SCHEDULE SEE SHEET NO. 19

<b>JOLIET ILLINOIS SEWAGE TREATMENT PLANT</b>	
MAIN CONTROL BUILDING ARCHITECTURAL SECTIONS & DETAILS	
DRAWN BY: E.M.	SCALE: AS NOTED
DATE: JAN. 1951	REVISION:
CHECKED BY: H.S.M. L.F.R.	APRIL 1951
APPROVED BY: E.A.S.	SHEET NO. 23 OF 45 SHEETS
<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.	

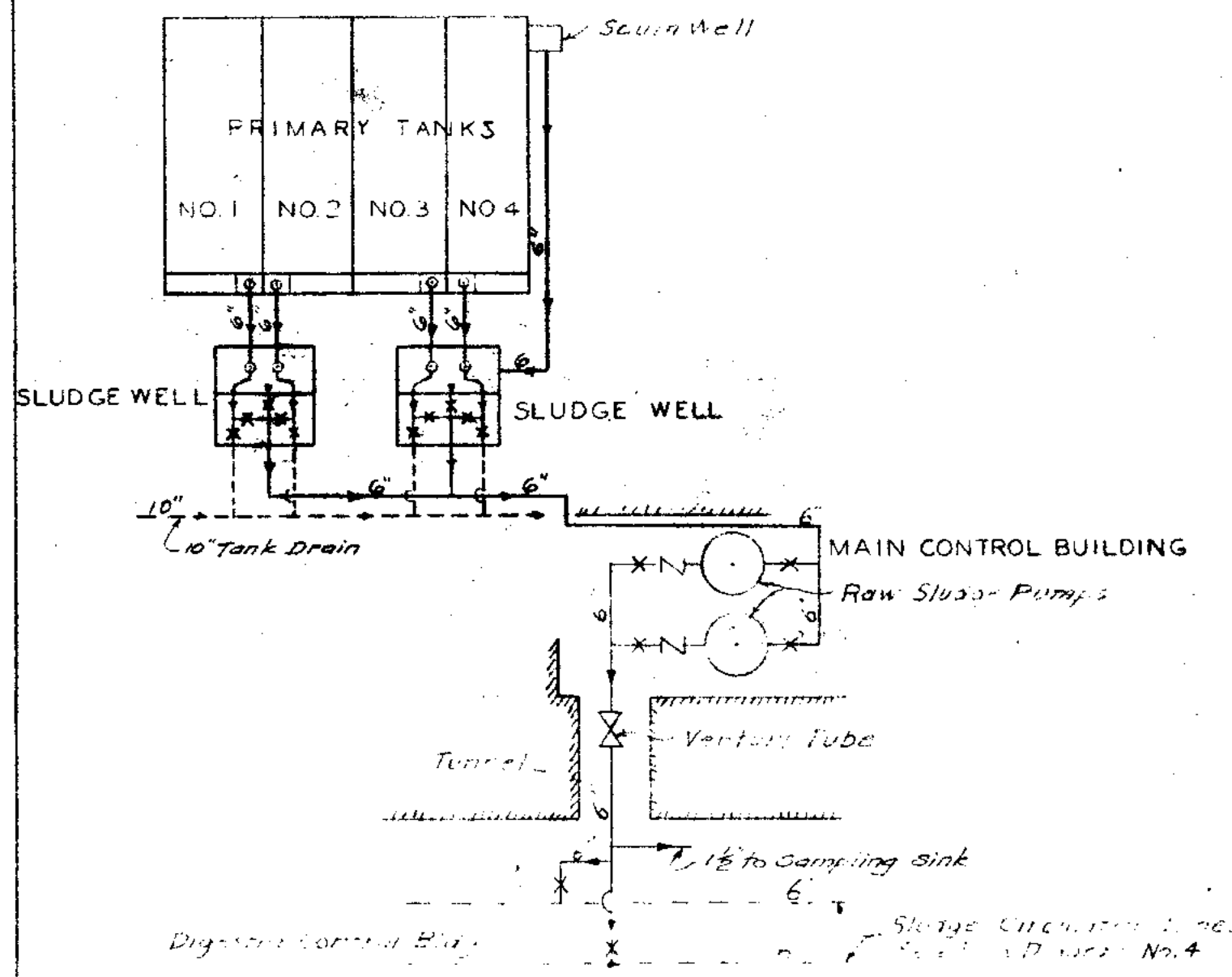




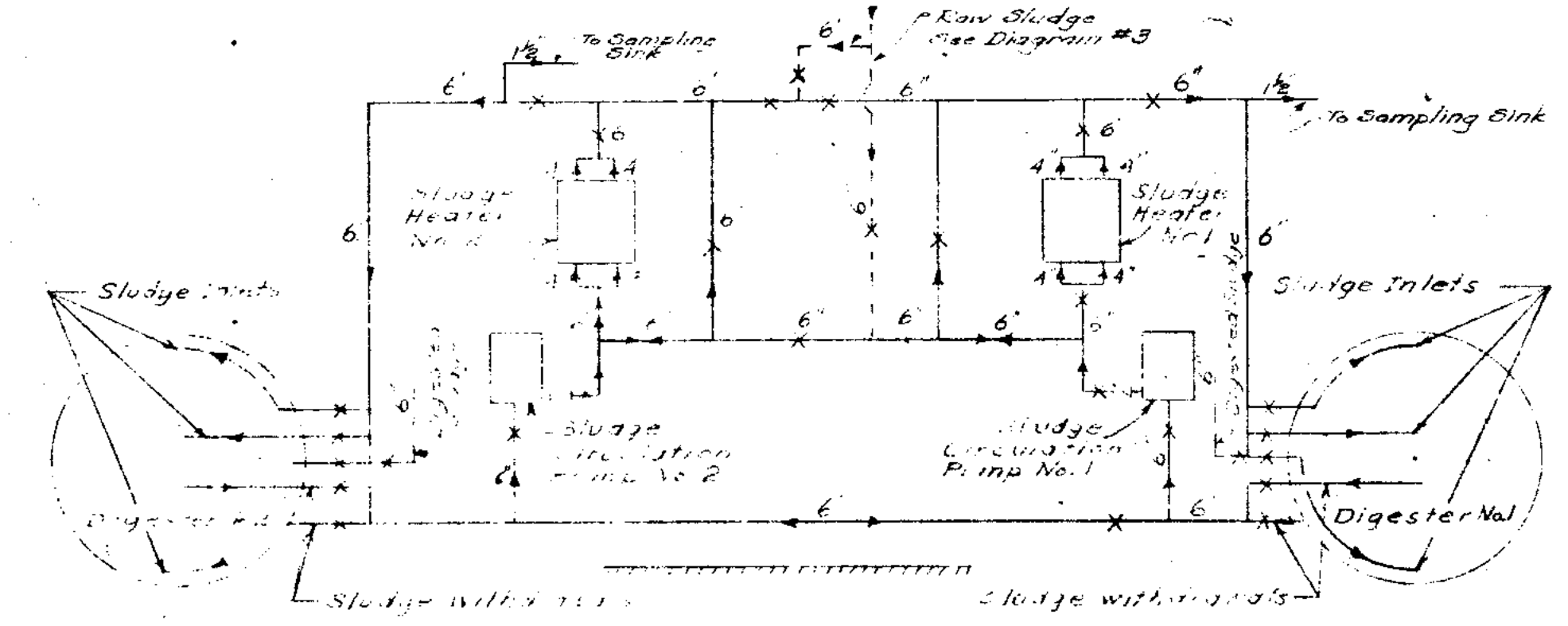
FLOW DIAGRAM NO. 1 - DIGESTED SLUDGE



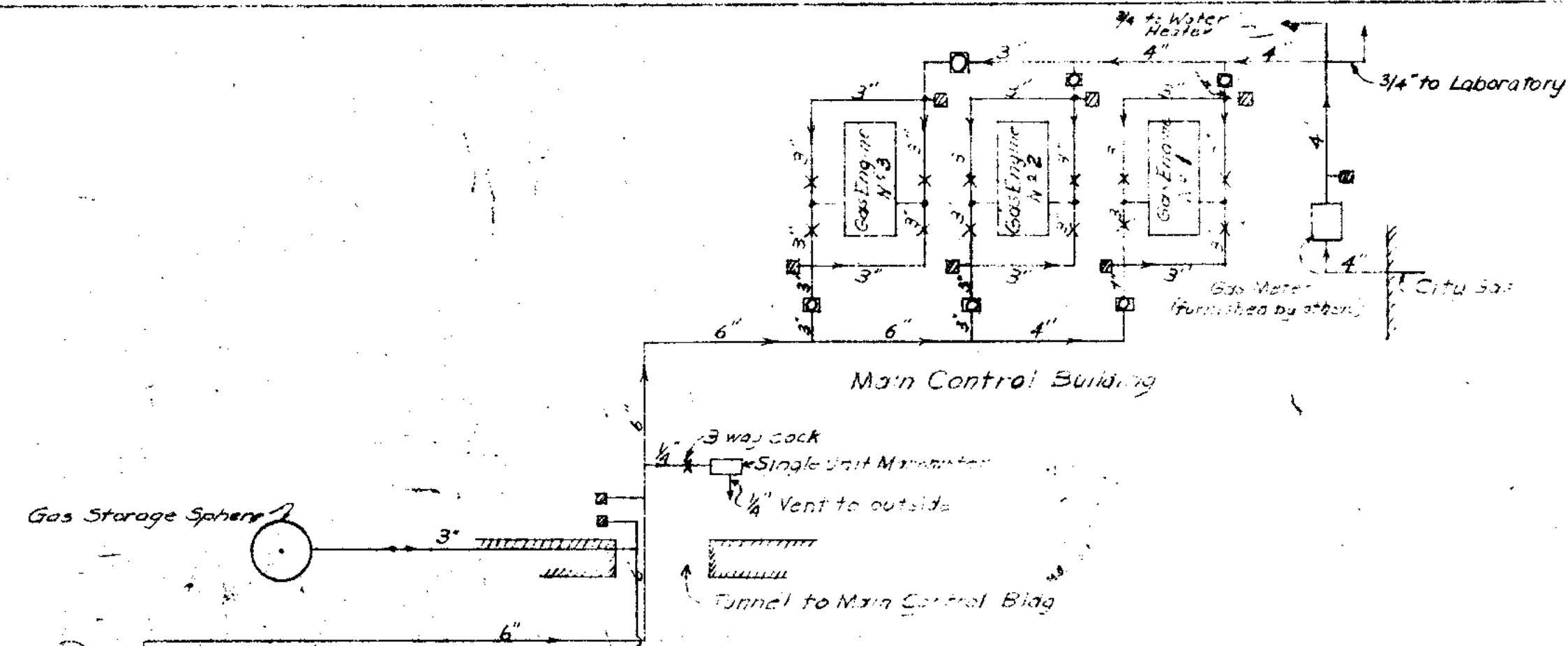
FLOW DIAGRAM NO. 2 - SUPERNATANT



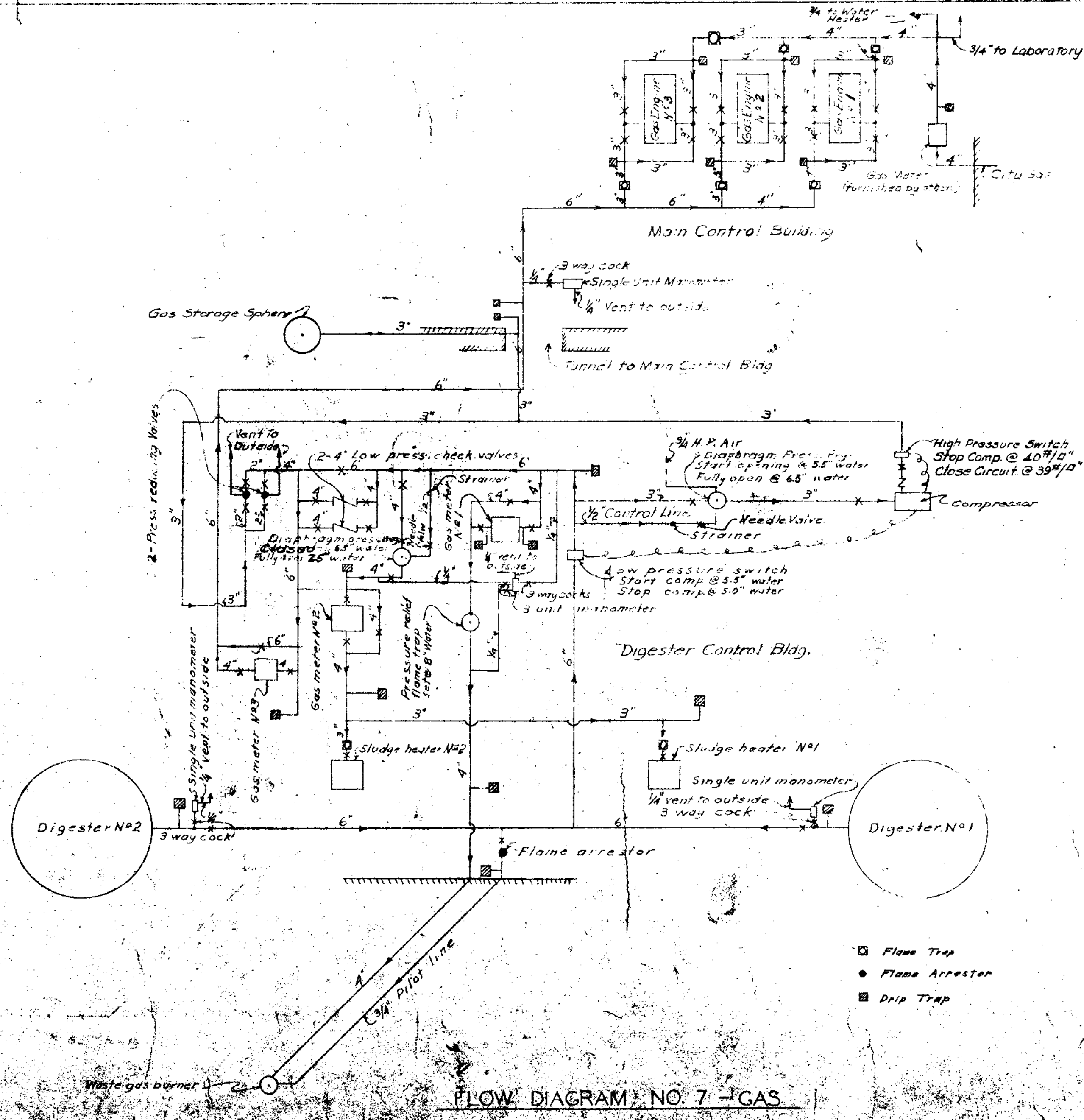
FLOW DIAGRAM NO. 3 - RAW SLUDGE & SCUM



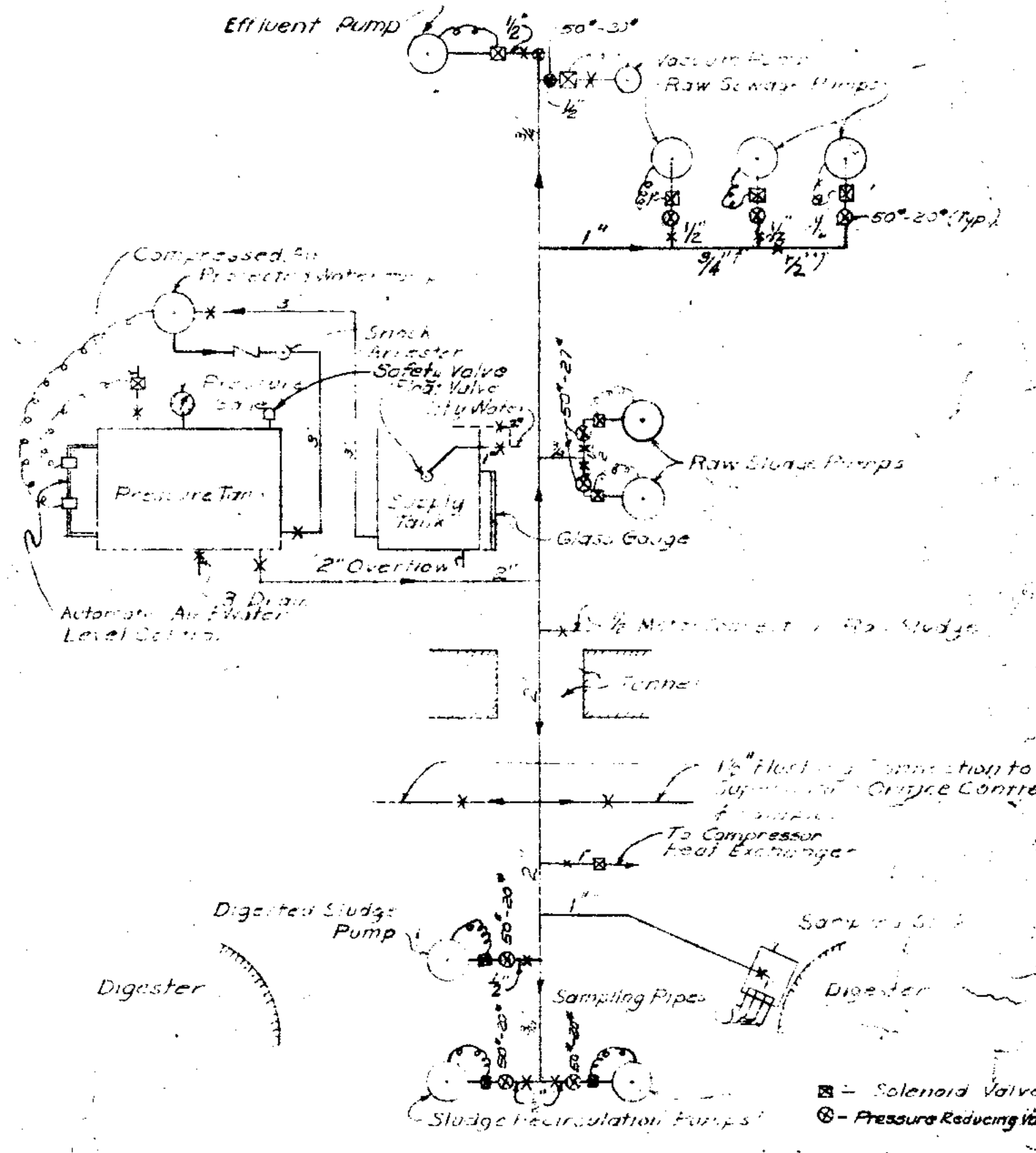
FLOW DIAGRAM NO. 4 - SLUDGE CIRCULATION & HEATING



FLOW DIAGRAM NO. 5 - RAW SEWAGE



FLOW DIAGRAM NO. 7 - GAS



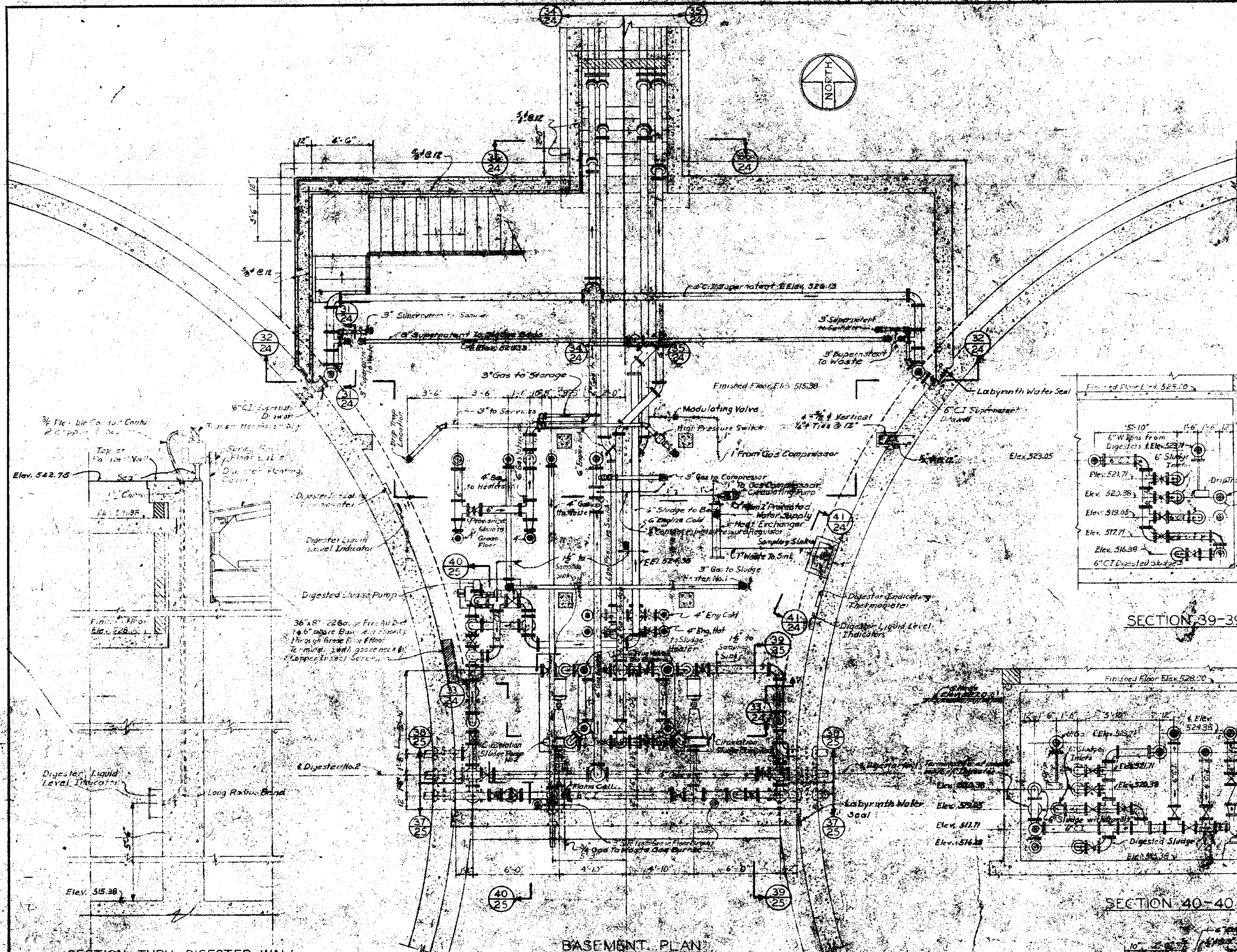
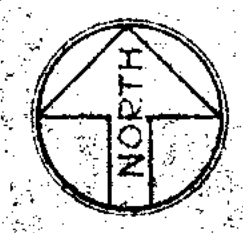
FLOW DIAGRAM NO. 6 - PROTECTED WATER

**JOLIET ILLINOIS**  
**SEWAGE TREATMENT PLANT**

**FLOW DIAGRAMS**

DRAWN BY: V.B.S.	<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b>	SCALE: No Scale
DATE: Jan 1951	CONSULTING ENGINEERS	REVISED: _____
CHECKED BY: L.F.R.	CHICAGO, ILL.	PROJECT NO: _____
APPROVED BY: R.A. ST.		SHEET NO: _____





BASEMENT PLAN

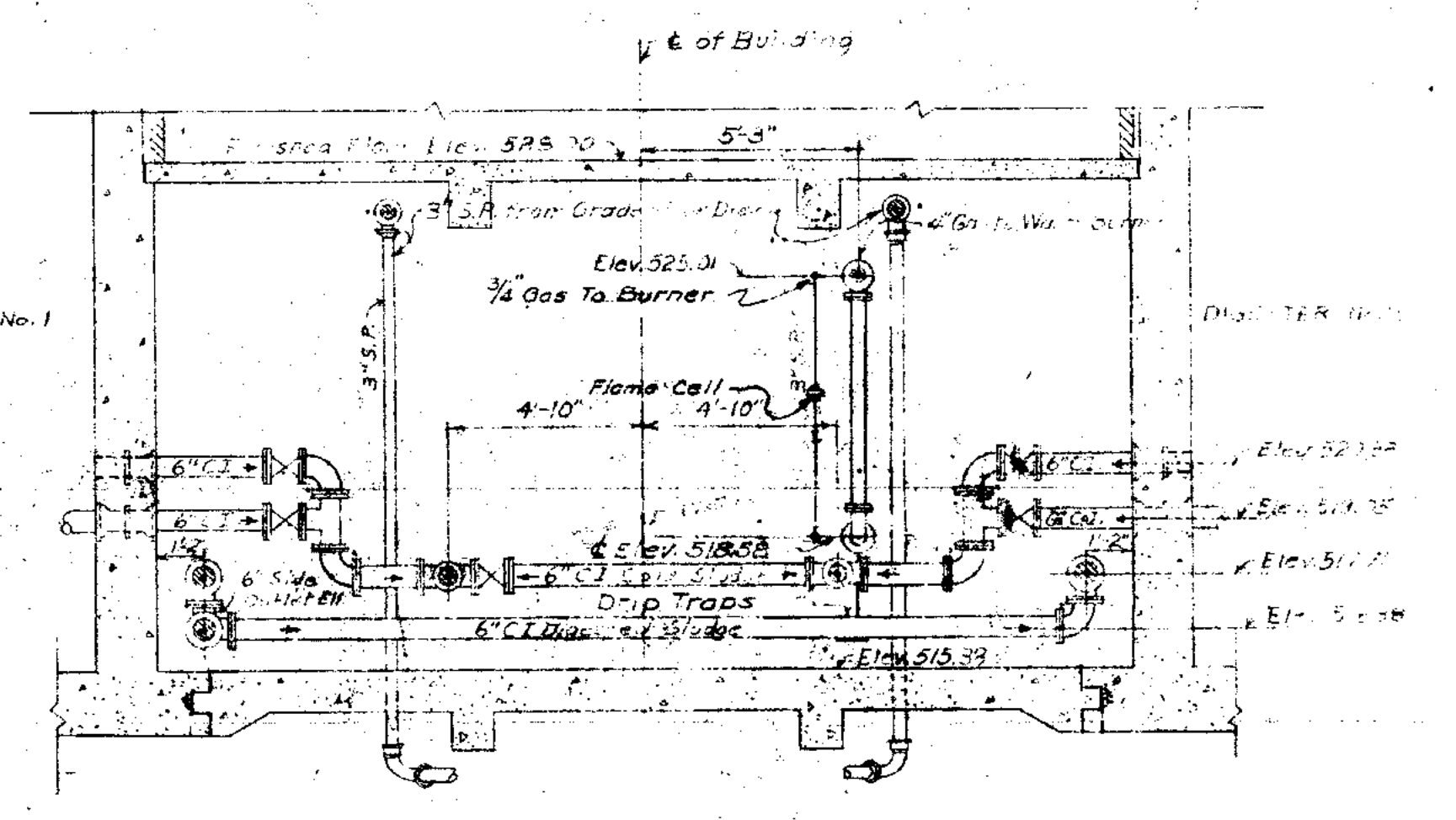
SECTION THRU DIGESTER WALL AT LIQUID LEVEL INDICATOR

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

SECTION THRU CONCRETE STAIRS NORTH OF DIGESTER CONTROL BLDG

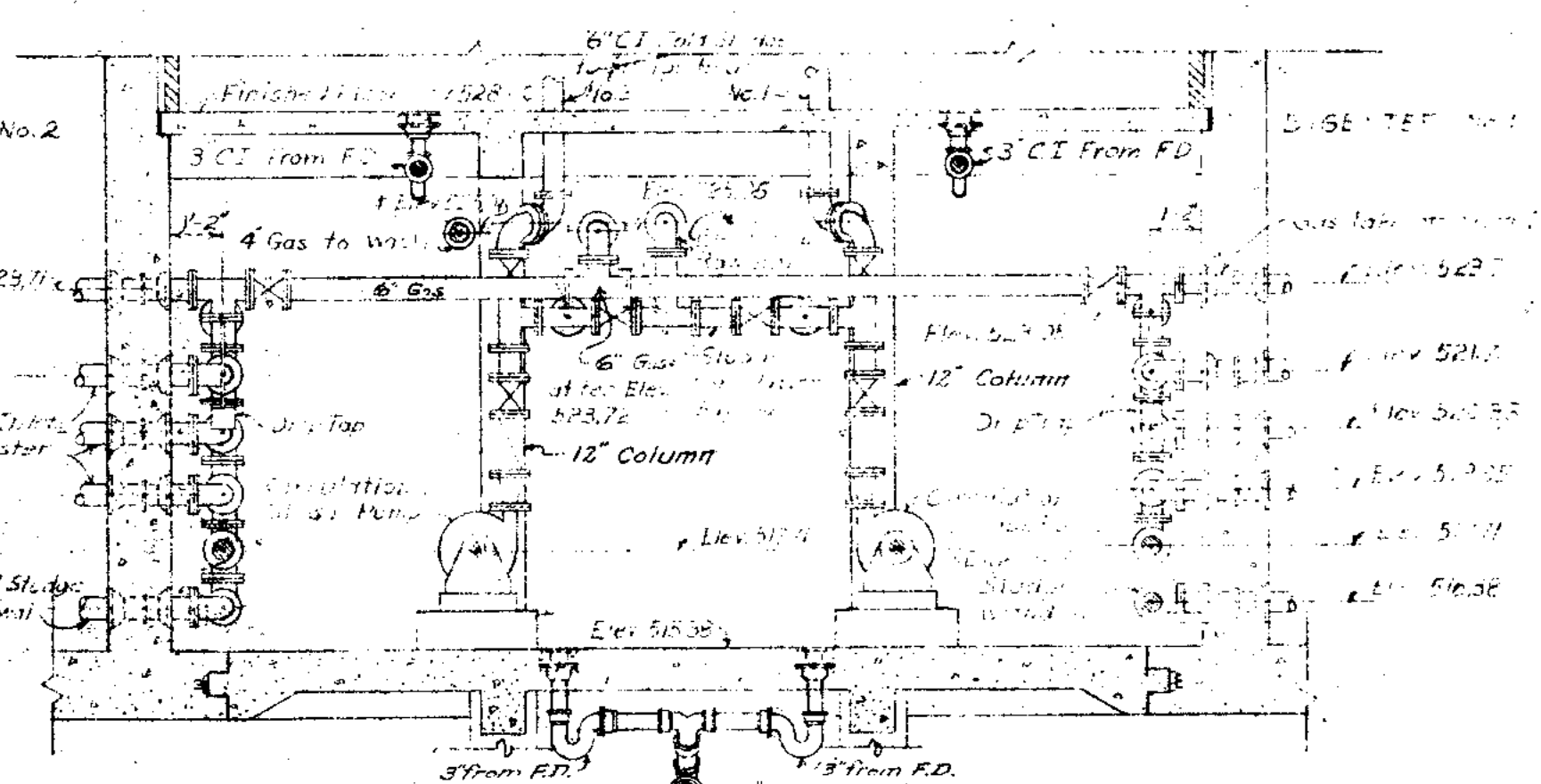
Scale: 1/4" = 1'-0"

DIGESTER No. 1

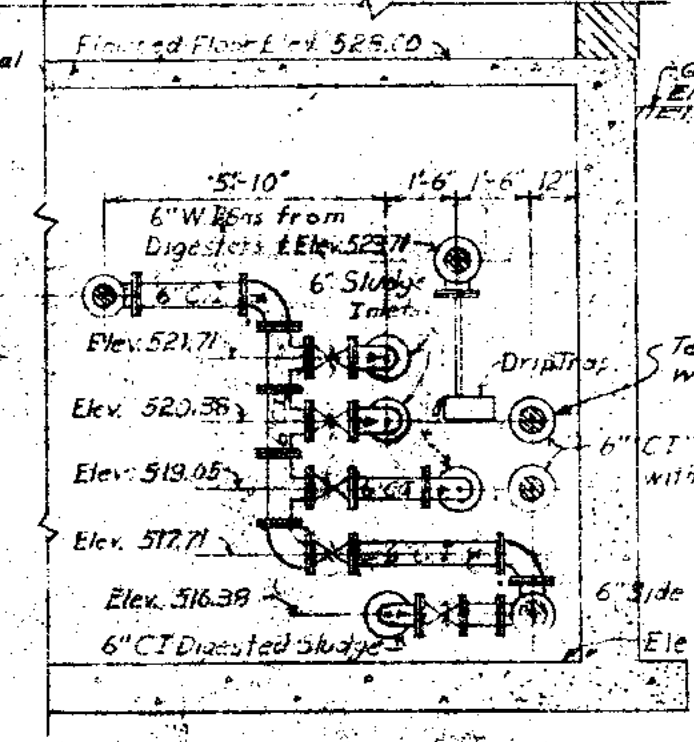


SECTION 37-37

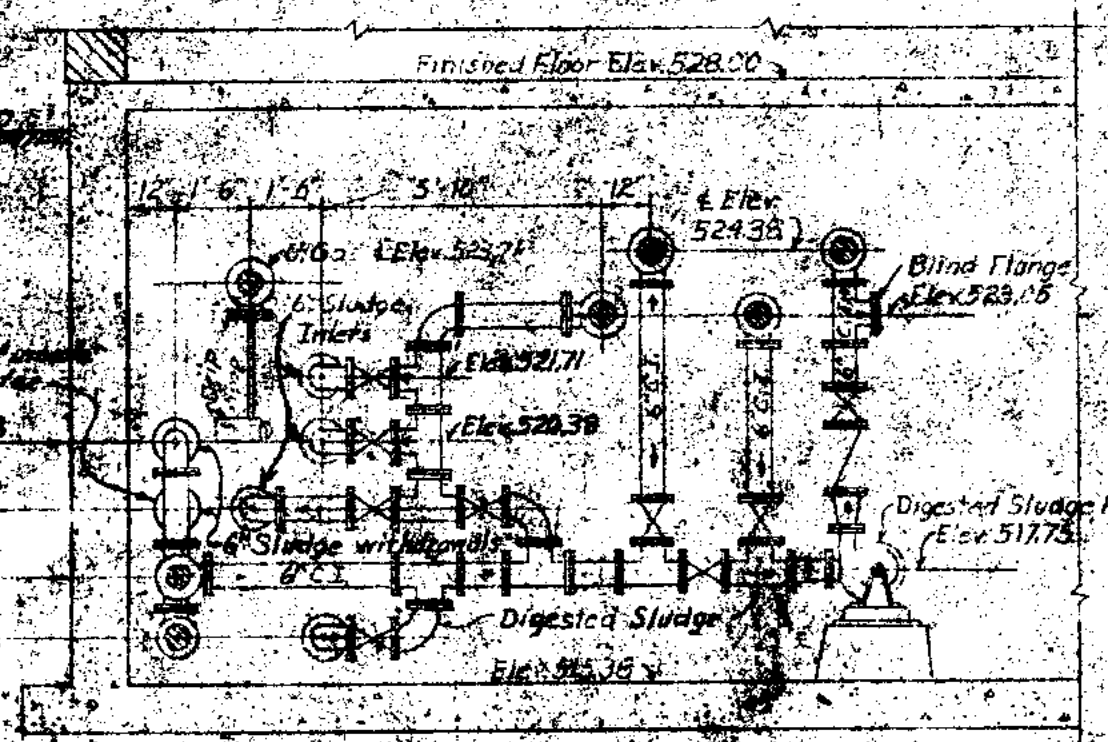
DIGESTER No. 2



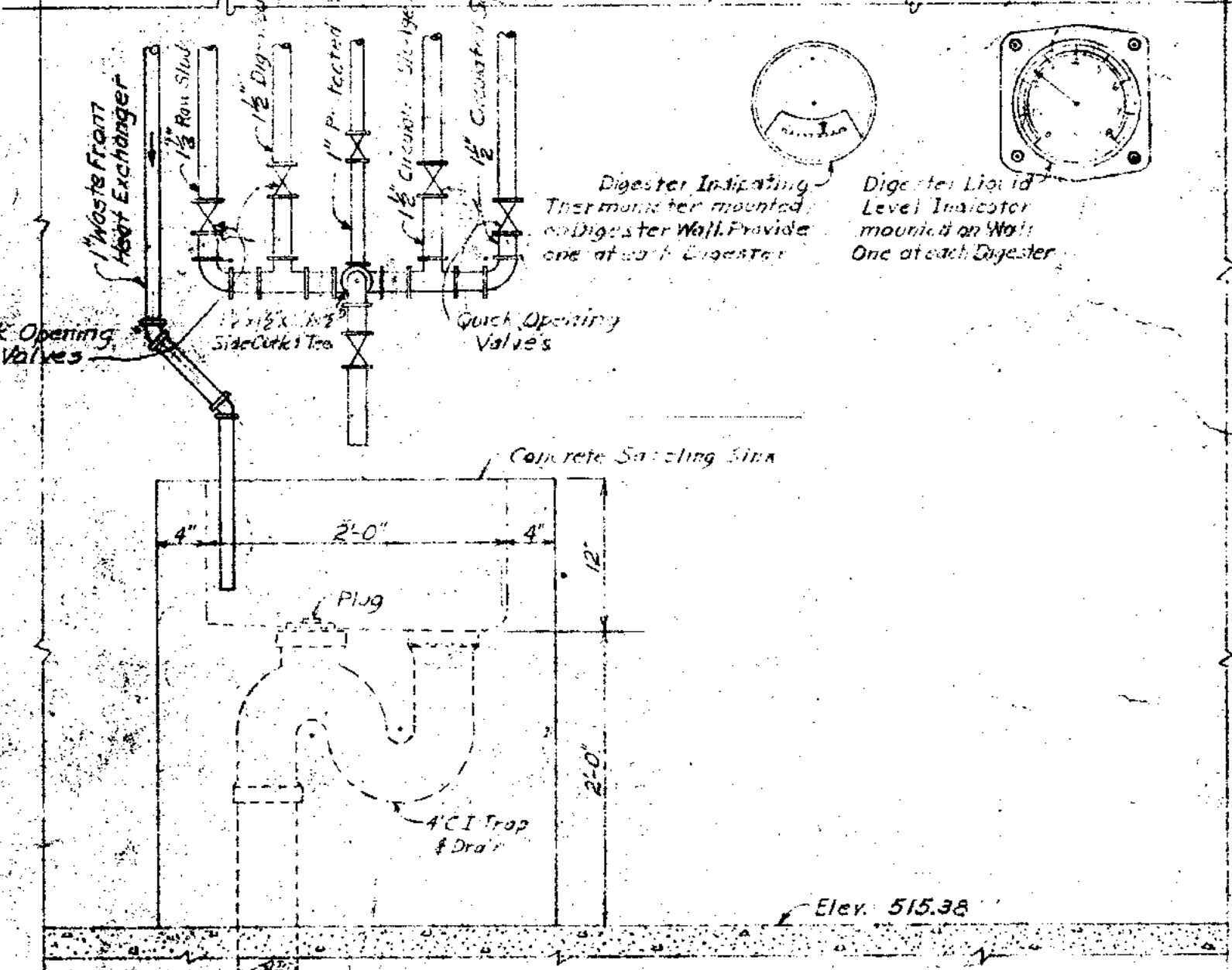
SECTION 38-38



SECTION 39-39

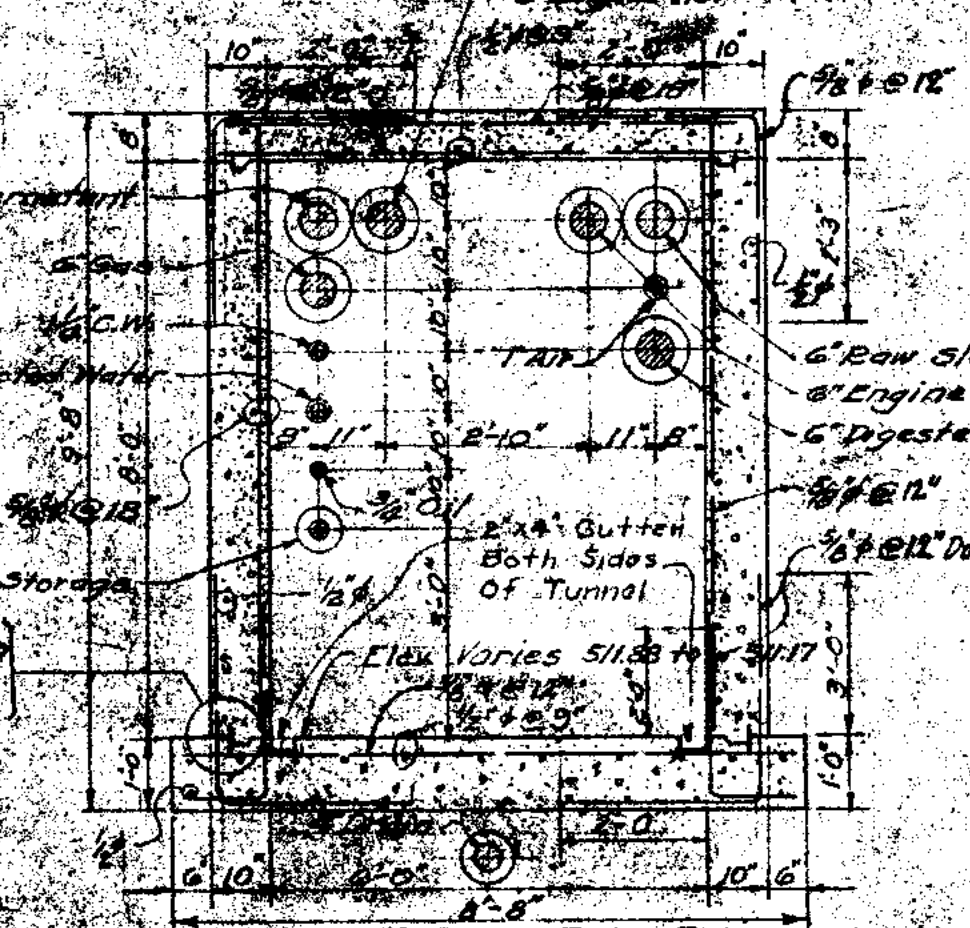


SECTION 40-40



SECTION 41-41

Scale: 1" = 1'



SECTION 54-54

TYPICAL TUNNEL SECTION - LOOKING NORTH

JOLIET, ILLINOIS  
SEWAGE TREATMENT PLANT

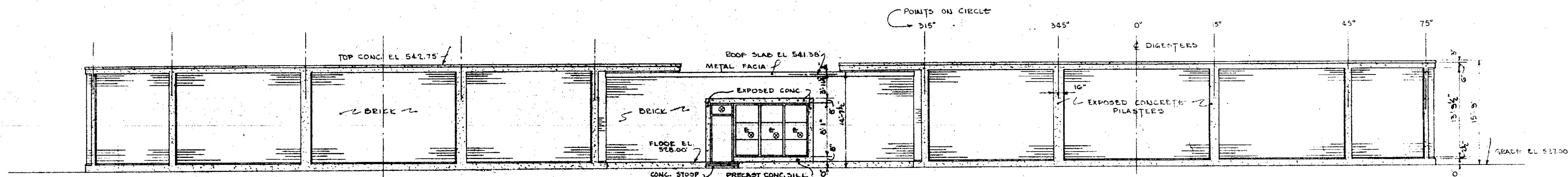
DIGESTER CONTROL BUILDING  
BASEMENT FLOOR PLAN & SECTIONS

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

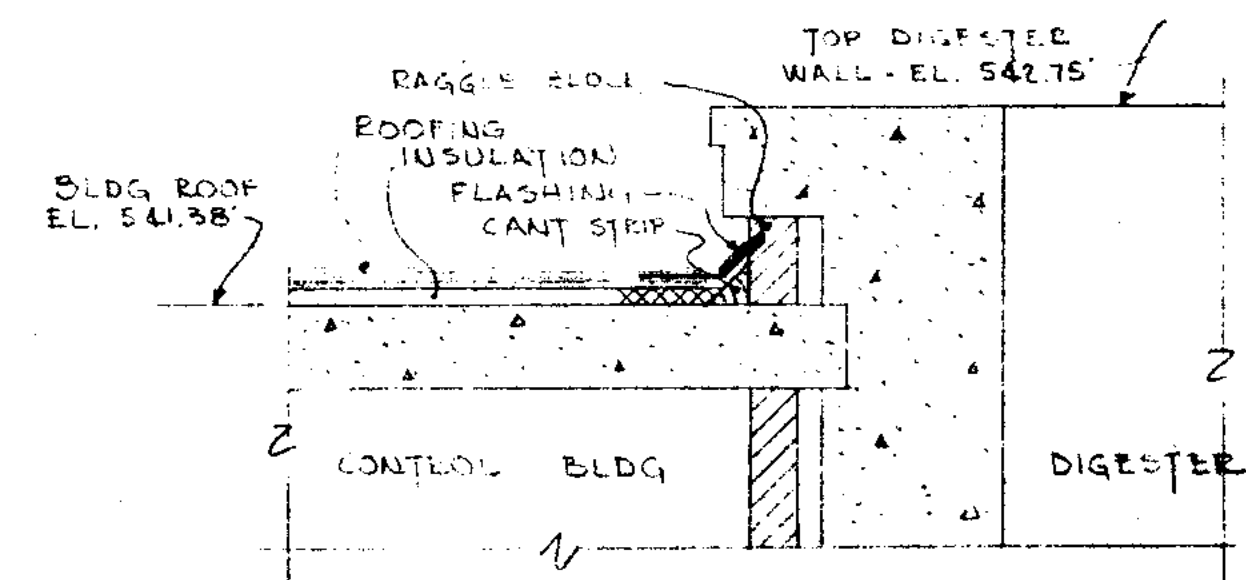
CONSOER, TOWNSEND & ASSOCIATES  
CONSULTING ENGINEERS  
CHICAGO, ILL.

DATE: JAN 1957  
CHECKED BY: L.F.R.  
DRAWN BY: L.F.R. & V.E.S.

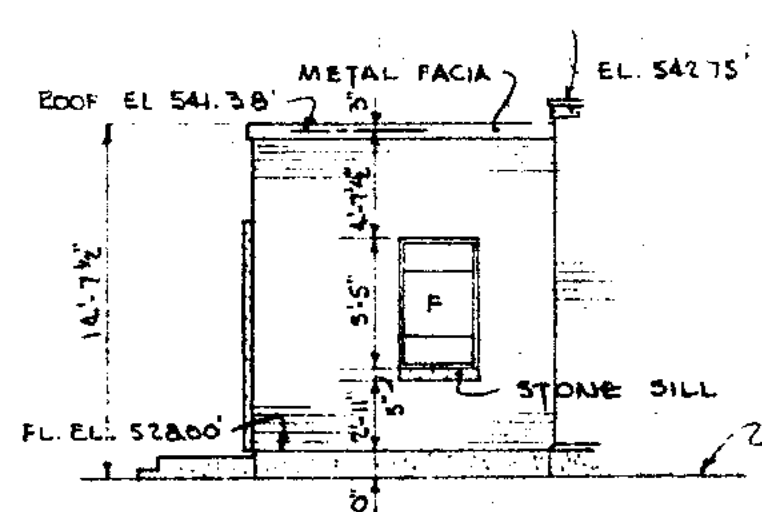




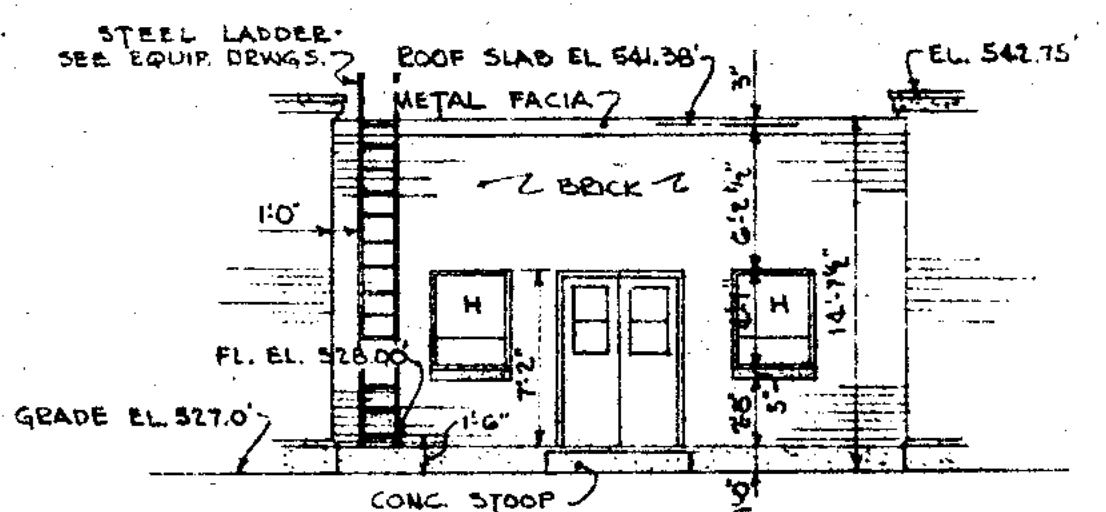
NORTH ELEVATION - DIGESTERS & BLDG.  
SCALE: 1/8" = 1'-0"



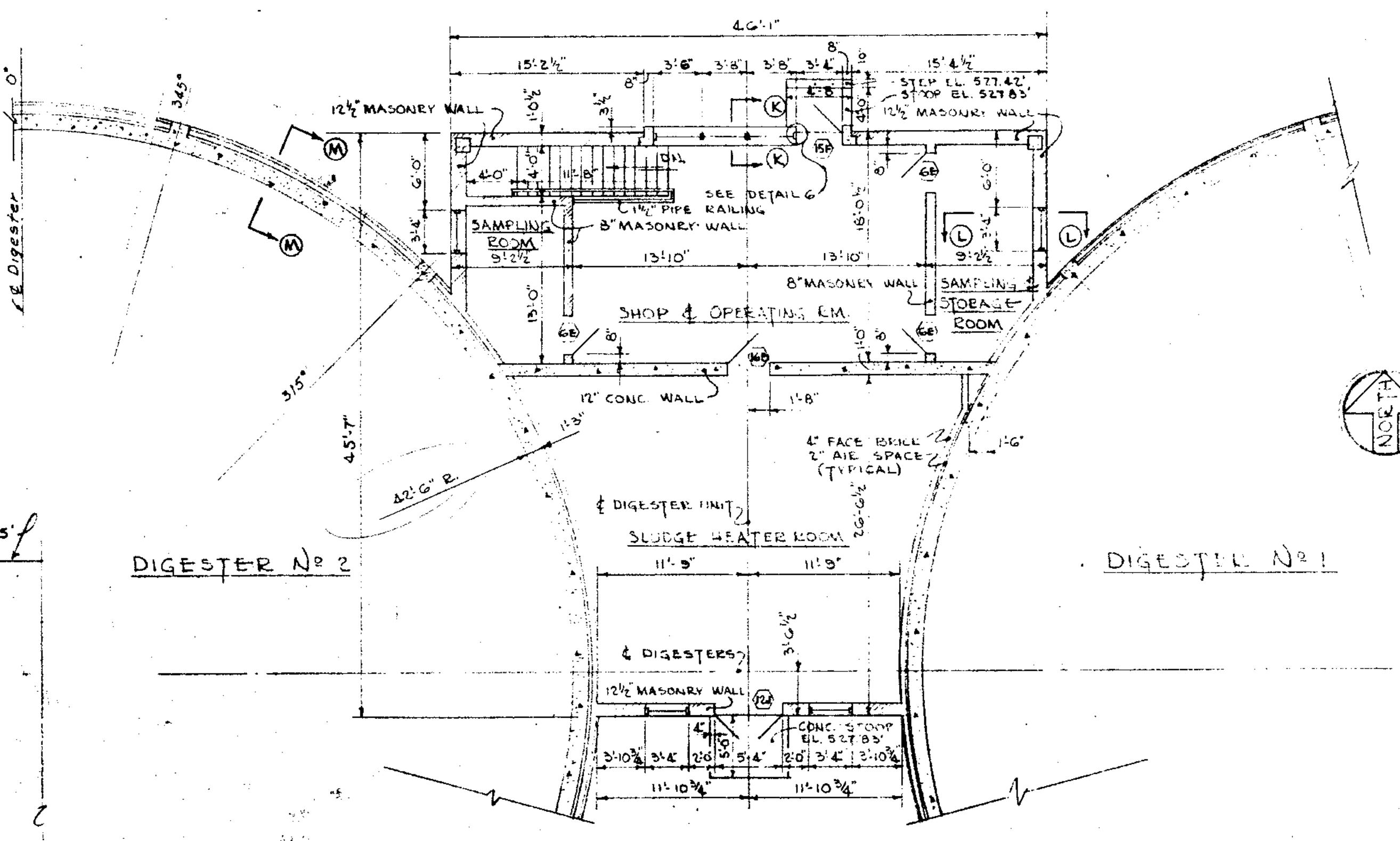
ROOF FLASHING DETAIL  
SCALE: 3/4" = 1'-0"



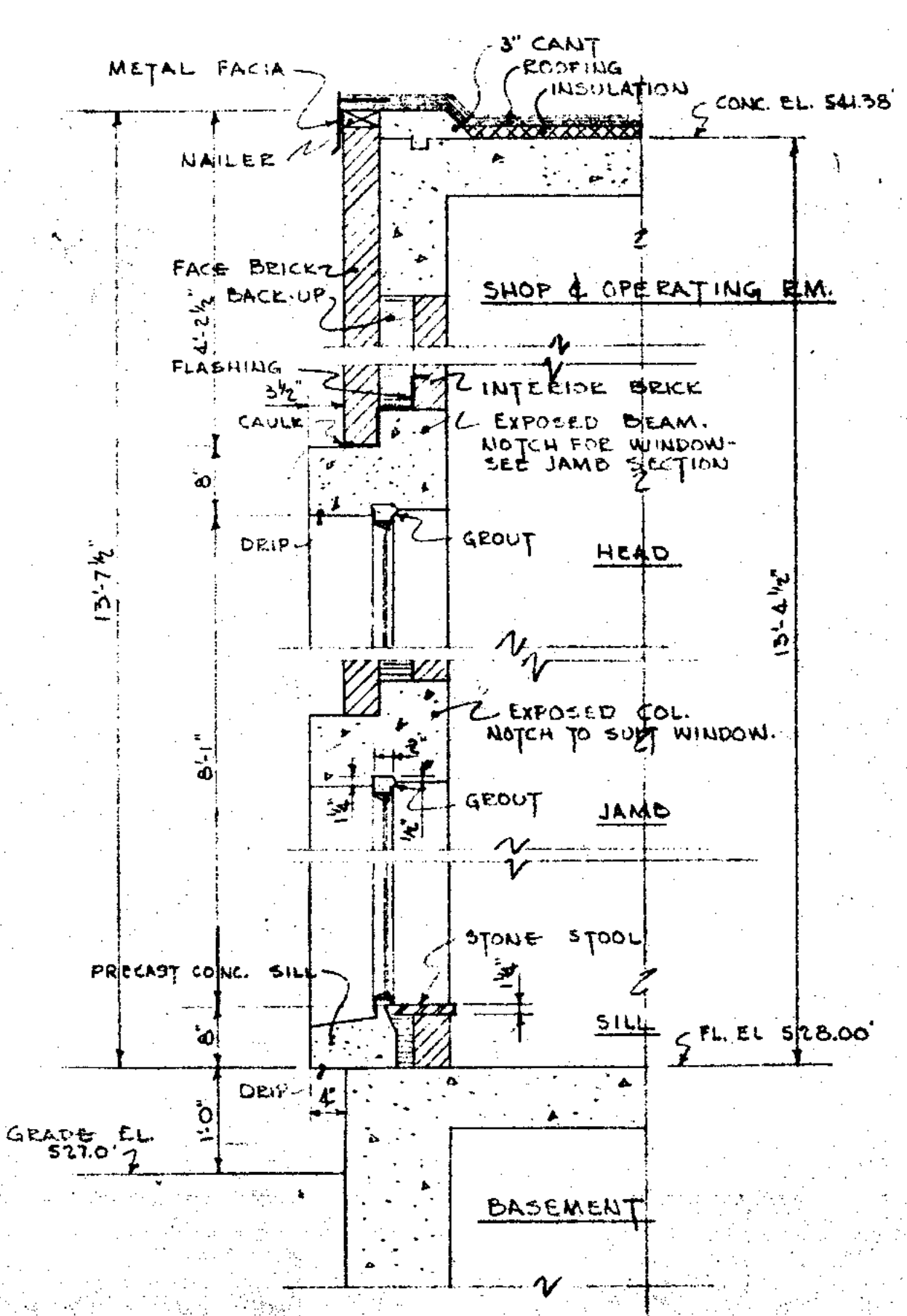
WEST ELEVATION  
EAST ELEVATION OPPOSITE HAND  
SCALE: 1/8" = 1'-0"



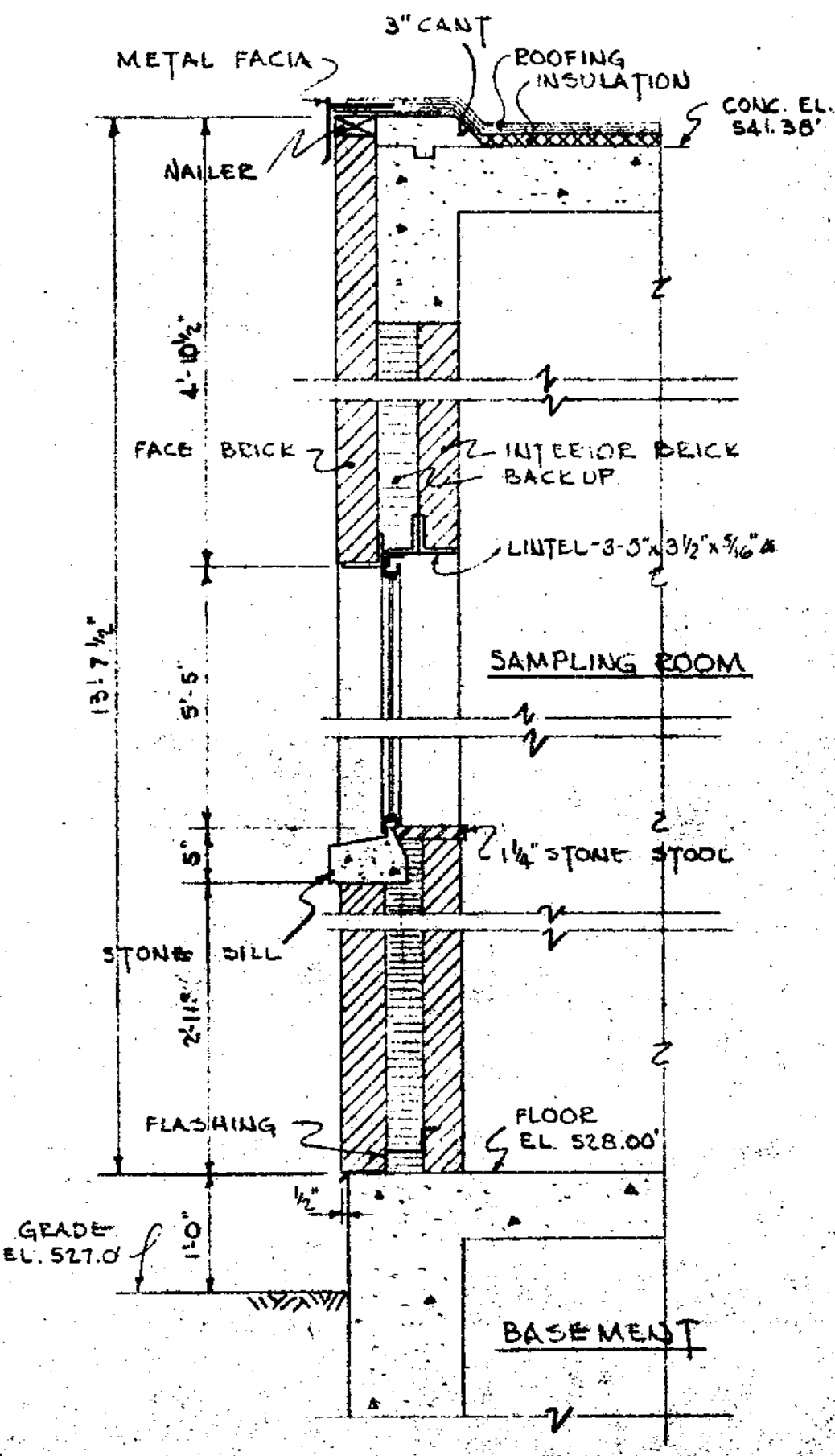
SOUTH ELEVATION  
SCALE: 1/8" = 1'-0"



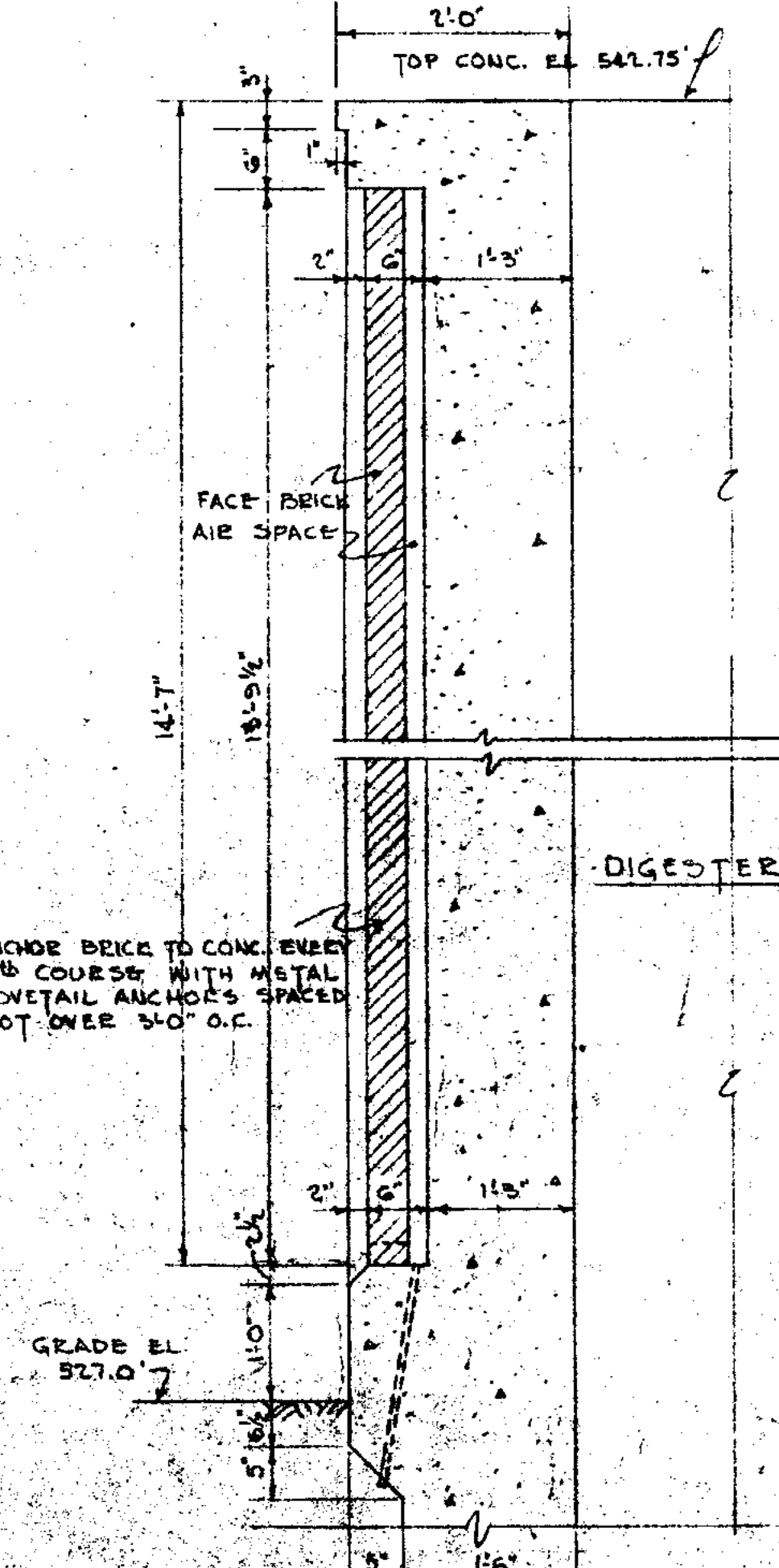
PLAN  
SCALE: 1/8" = 1'-0"



SECTION K-K  
SCALE: 3/4" = 1'-0"



SECTION L-L  
SCALE: 1/8" = 1'-0"

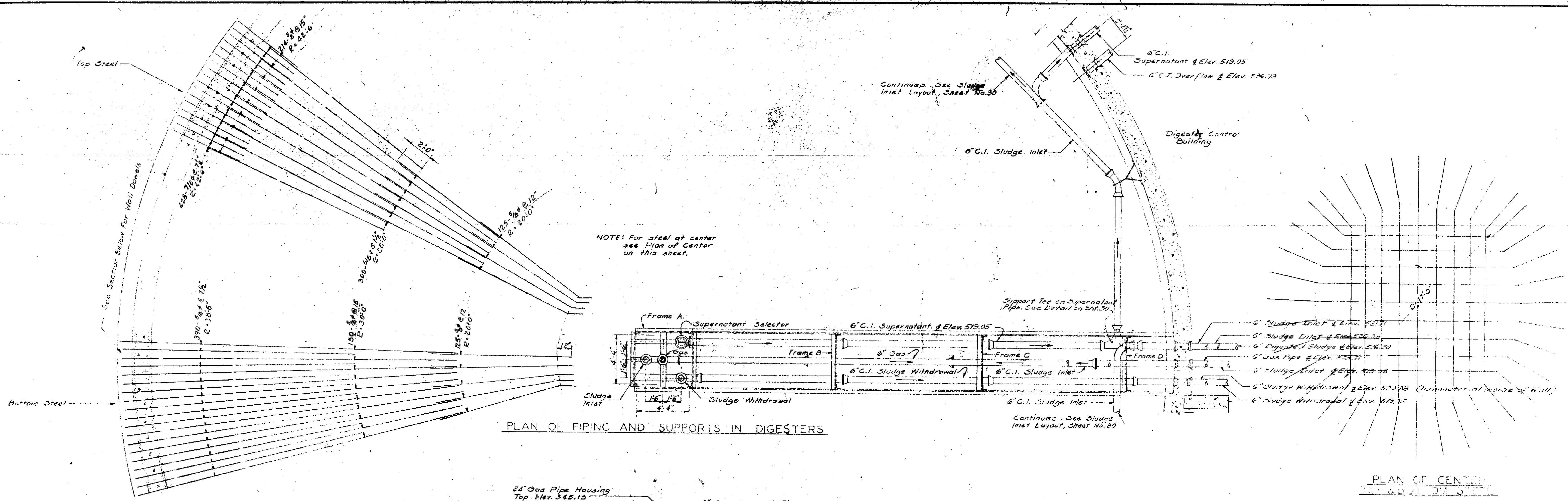


SECTION M-M  
SCALE: 1/8" = 1'-0"

NOTE:  
FOR SIZE & LOCATION OF EQUIPMENT, SEE EQUIPMENT DRAWINGS.  
FOR DOOR & HARDWARE SCHEDULE, SEE SHEET NO. 20.  
FOR WINDOW SCHEDULE, SEE SHEET NO. 23.  
FOR LINTEL SCHEDULE, SEE SHEET NO. 19.

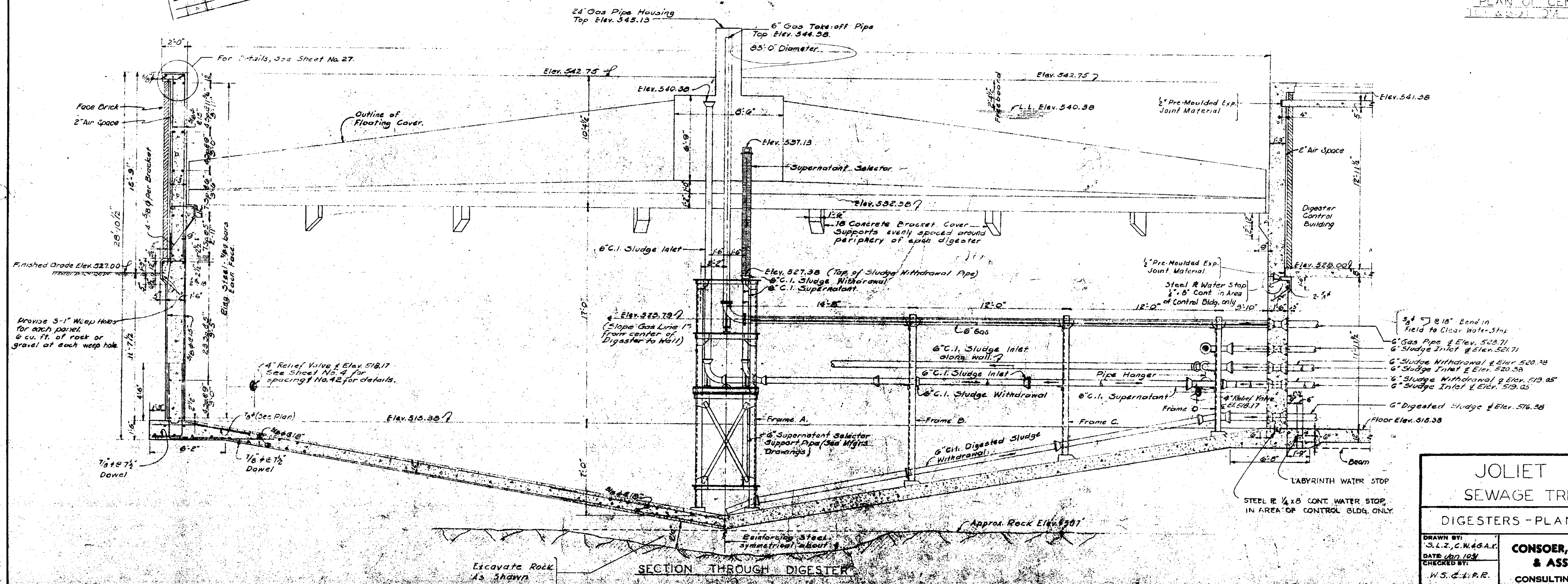
JOLIET ILLINOIS SEWAGE TREATMENT PLANT		
DIGESTERS & DIGESTER CONTROL BUILDING ARCHITECTURAL		
DRAWN BY: R.M.	<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.	SCALE: AS NOTED
DATE: JAN. 1951		REVISED:
CHECKED BY: H.S.M. L.F.R.		APRIL 1954
APPROVED BY: R.A.S.		SHEET NO. 27
		OF 45 SHEETS





PLAN OF PIPING AND SUPPORTS IN DIGESTERS

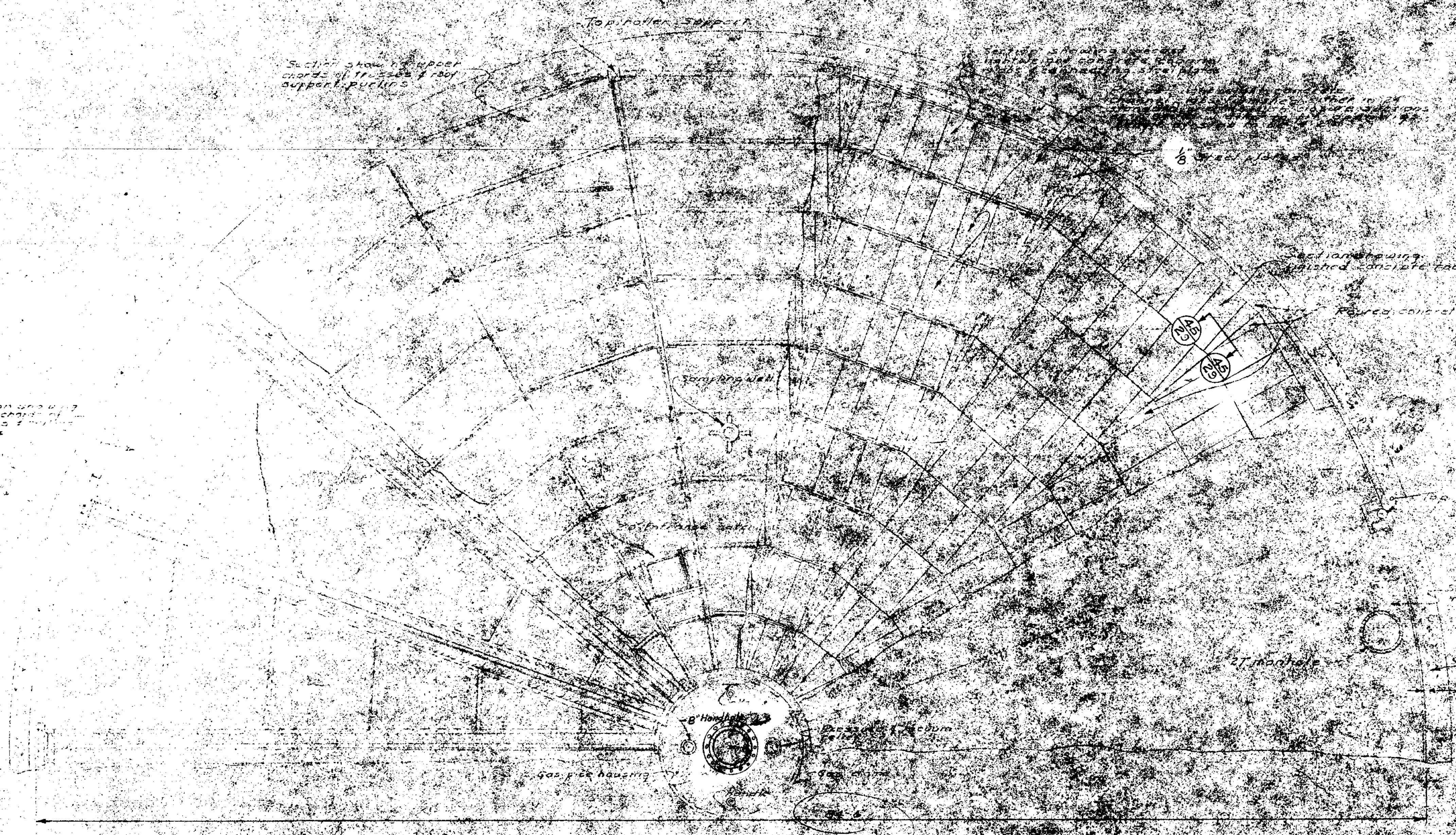
PLAN OF CENTER



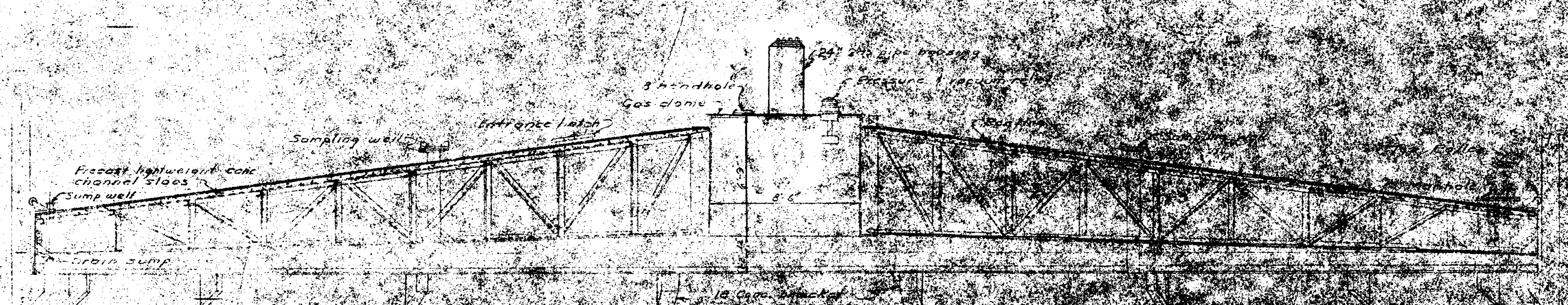
SECTION THROUGH DIGESTER

<b>JOLIET ILLINOIS</b> <b>SEWAGE TREATMENT PLANT</b>		<b>SCALE:</b> 1/4" = 1'-0" <b>REVISIONS:</b> APRIL 1954 SHEET NO. 28 OF 45 SHEETS
<b>DIGESTERS - PLAN &amp; SECTION</b>		
DRAWN BY: S. L. Z. C. W. 4641 DATE: JAN 1954 CHECKED BY: W. S. C. I. P. R. APPROVED BY: E. R. S.	<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.	

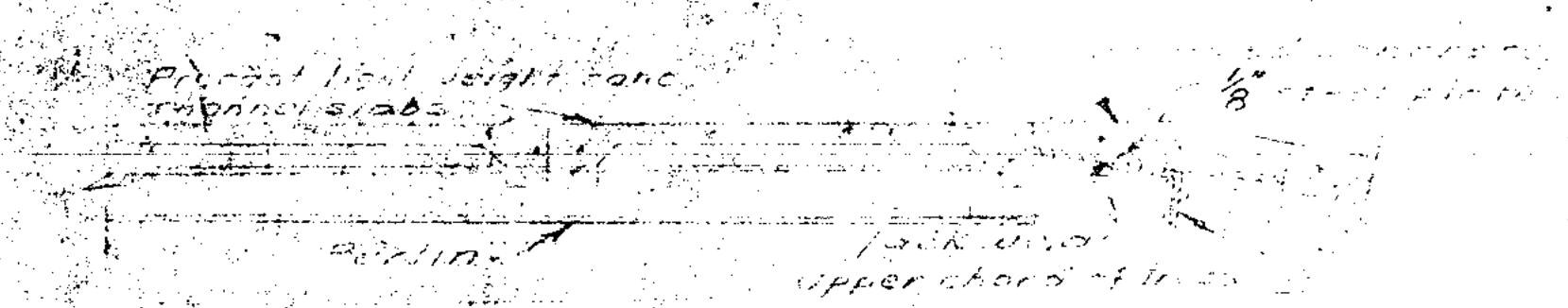




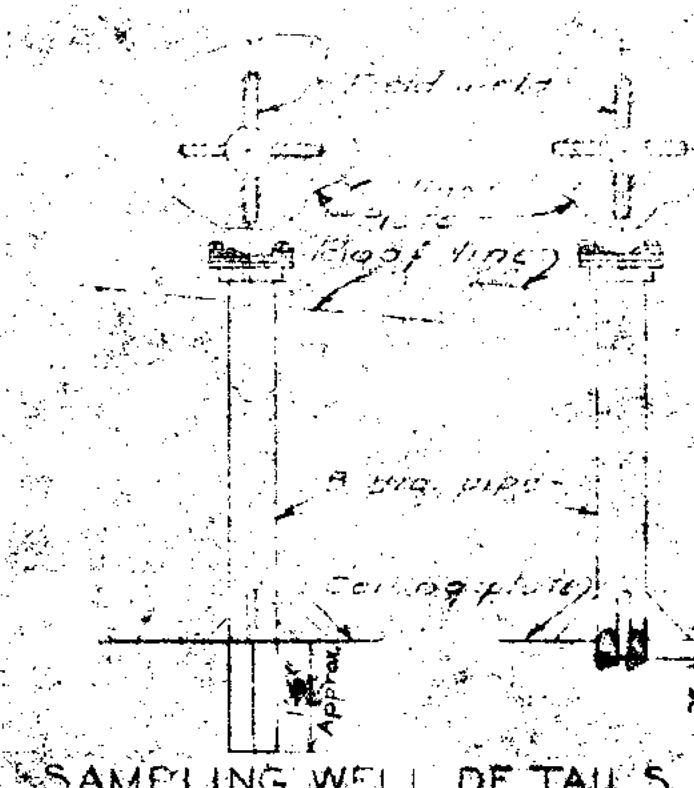
PLAN OF FLOATING COVER  
Scale 1/2"=1'-0"



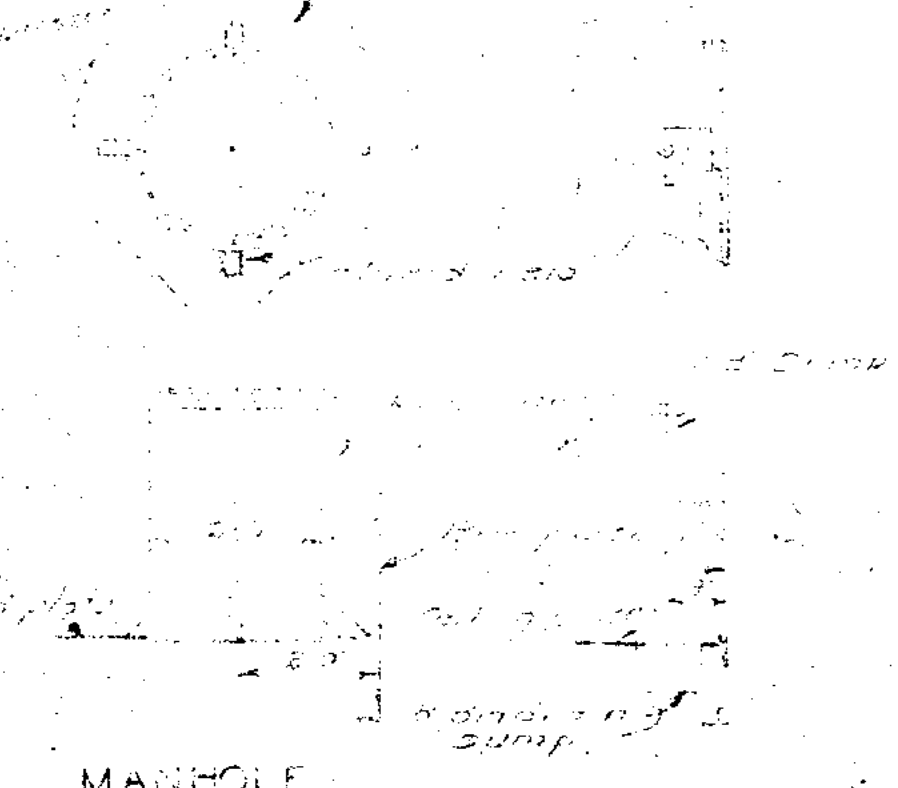
SECTION THROUGH COVER  
Scale 1/2"=1'-0"



SECTION 45-35  
Scale 1/2"=1'-0"

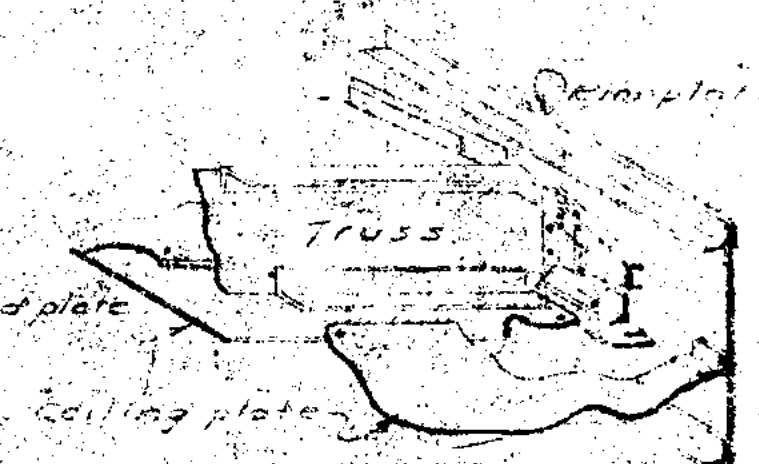


SAMPLING WELL DETAILS

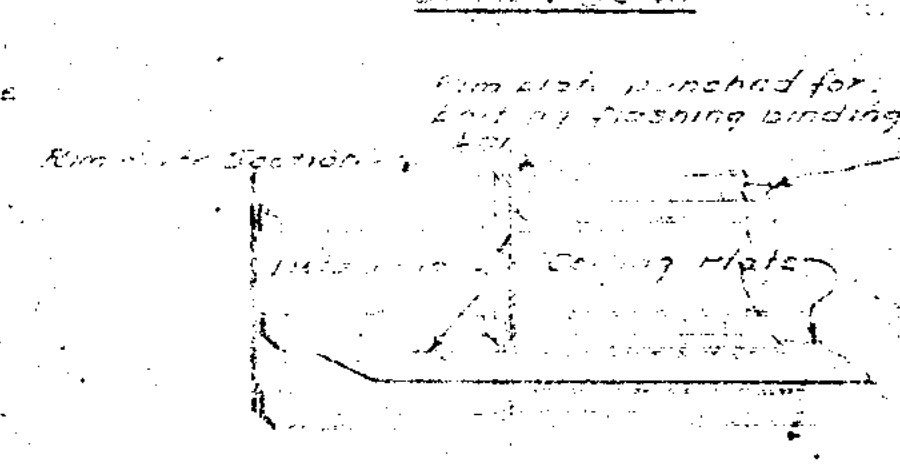


MANHOLE

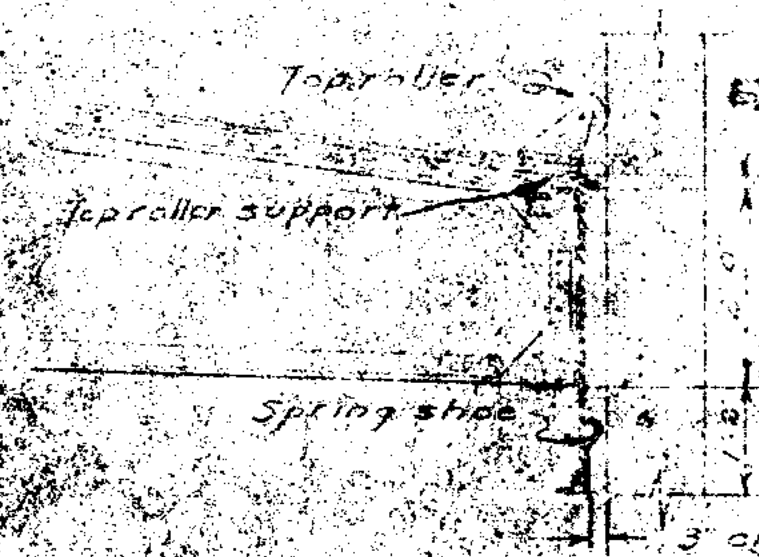
BRAIN SUMP



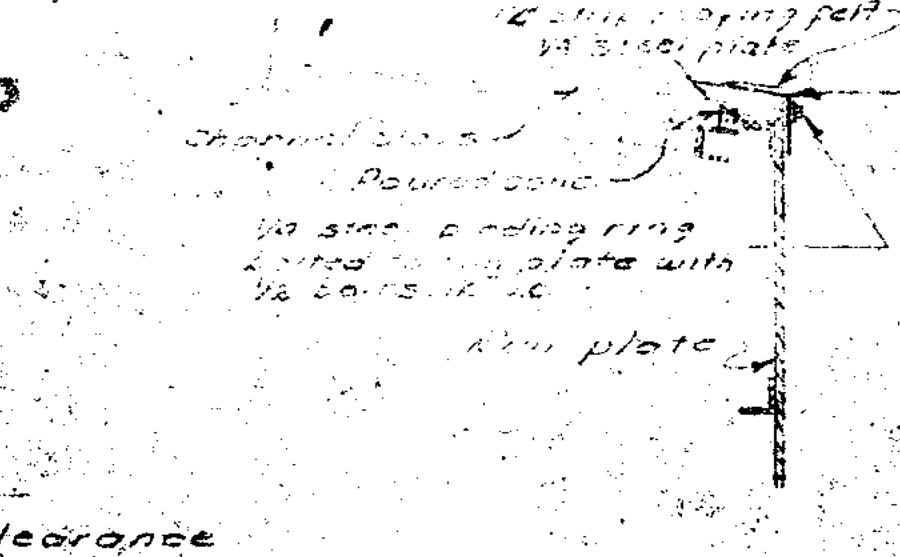
RIM CONNECTION



DETAIL AT RIM



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

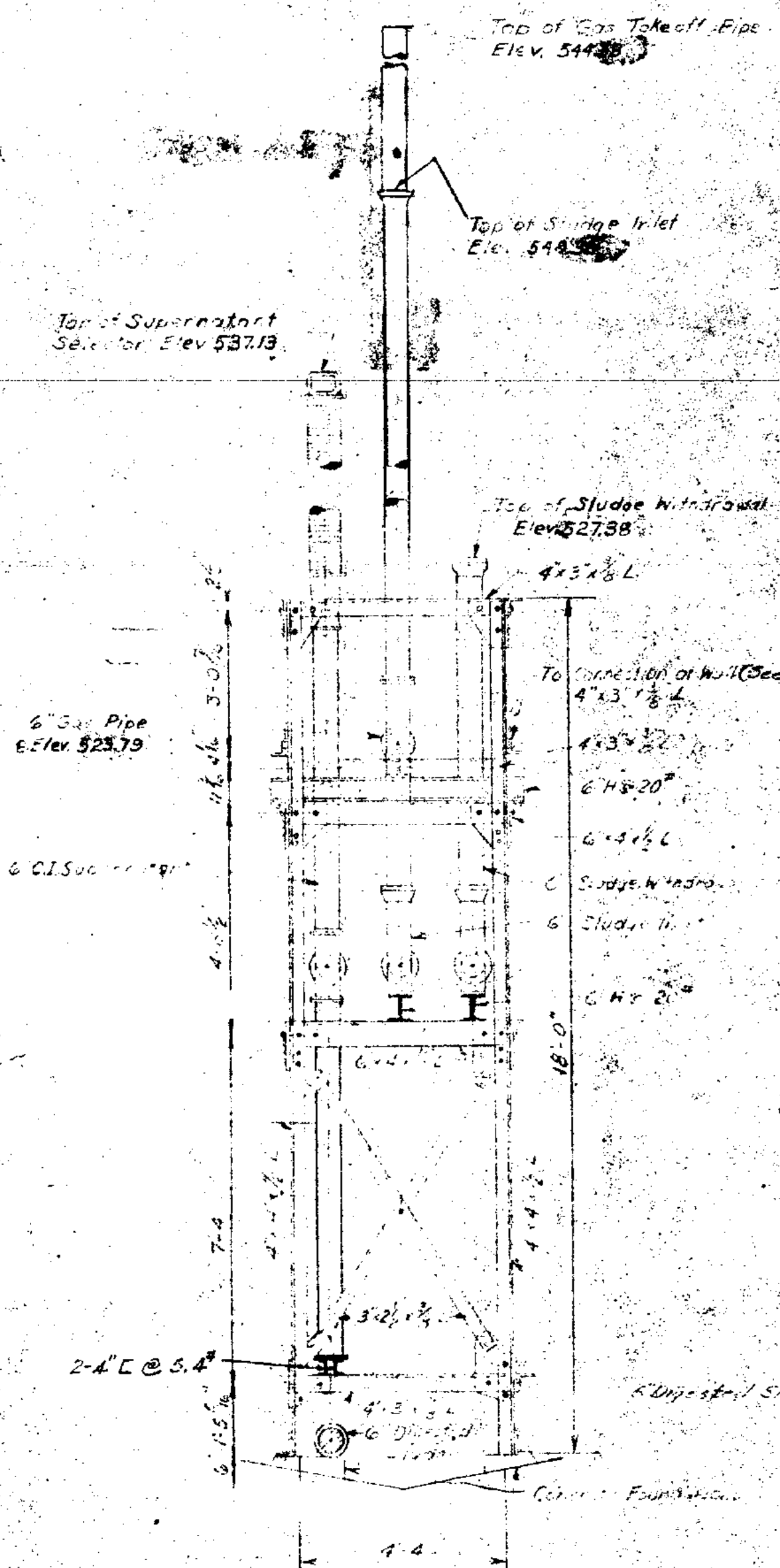


FLASHING DETAIL  
AT RIM PLATE  
Scale 1/2"=1'-0"

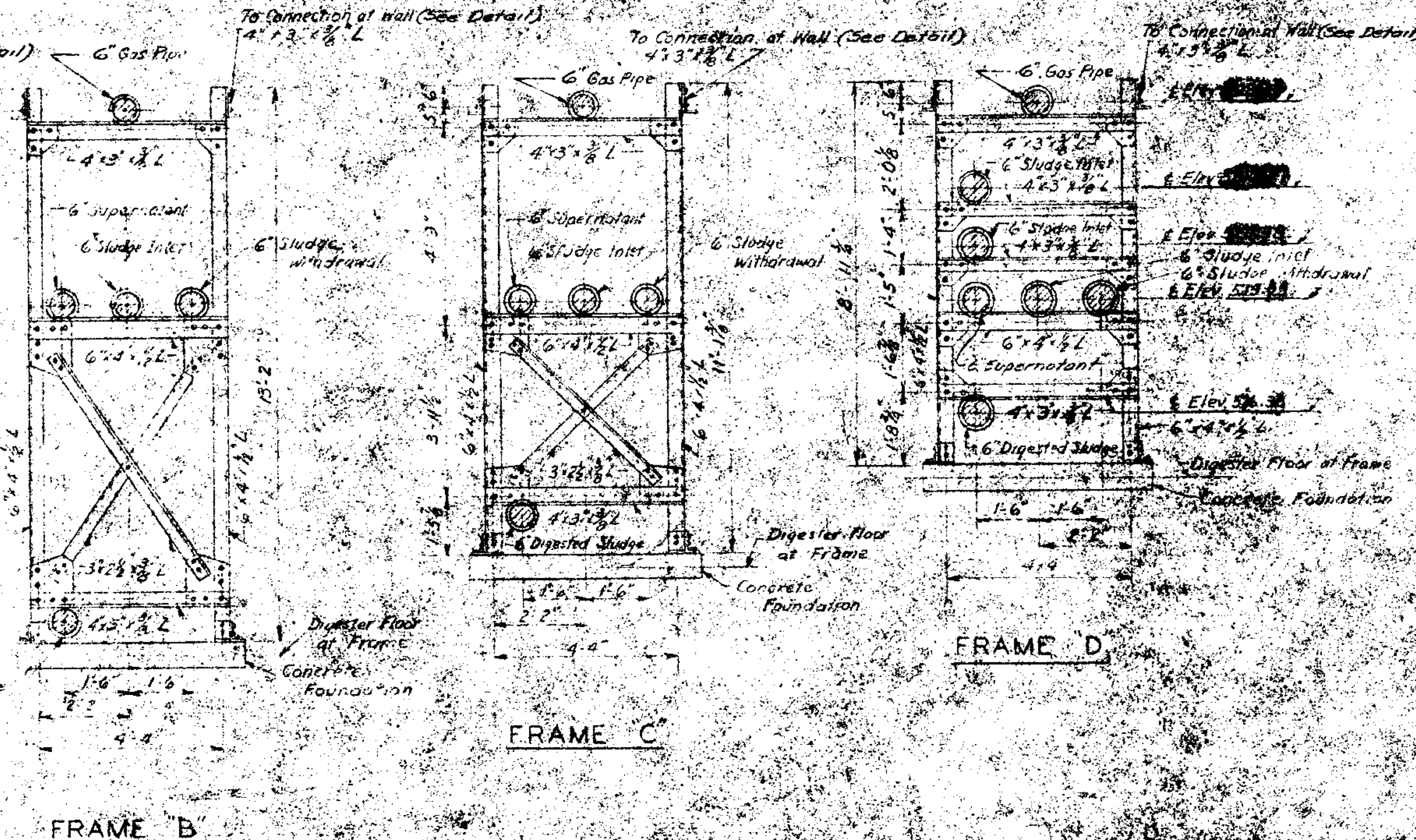
**JOHN ILLINOIS**  
**SEWAGE TREATMENT PLANT**  
DIGESTERS - COVER DETAILS

DRAWN BY: S.L.Z. DATE: JAN. 1951 CHECKED BY: L.T.R. APPROVED BY: R.A.S.	<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.	SCALE: As Shown REVISED: APRIL 1951 SHEET NO. 2
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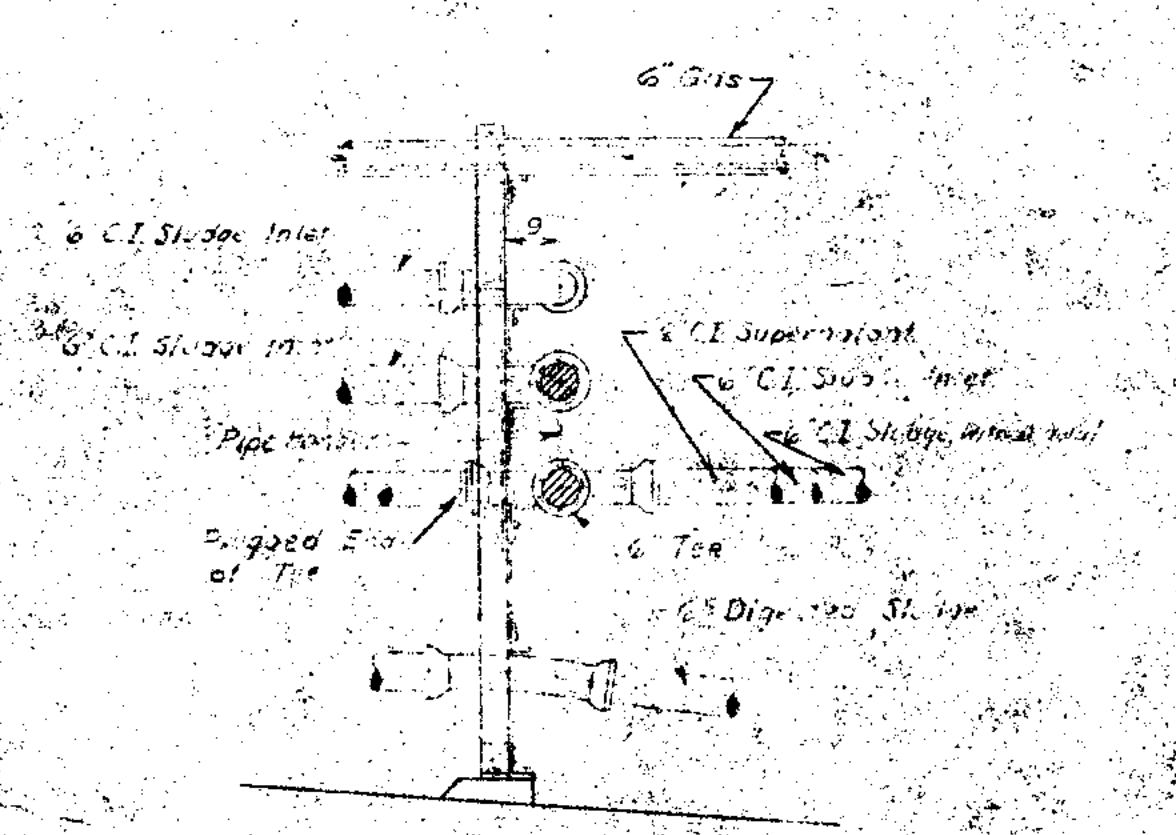




PIPE SUPPORT FRAME A



PIPE SUPPORT FRAME DETAILS



DETAIL OF TEE AT FRAME D FOR 6" C.I. SUPERNATANT

Note:  
 Use 1/2" U Bars for gable ends to Angle  
 Use steel Shim wherever necessary  
 Use 1/2" gasket plate wherever necessary  
 Rivets 1/2" Dia. Spacing 6" on Center  
 All base Pipe Angles to be 1/2" Dia. U Bars  
 All base Pipe Angles to be 1/2" Dia. U Bars

SUPPORT ANGLE CONNECTION AT WALL

SUPPORT F&H

SUPPORT E,G&J

SUPPORT F

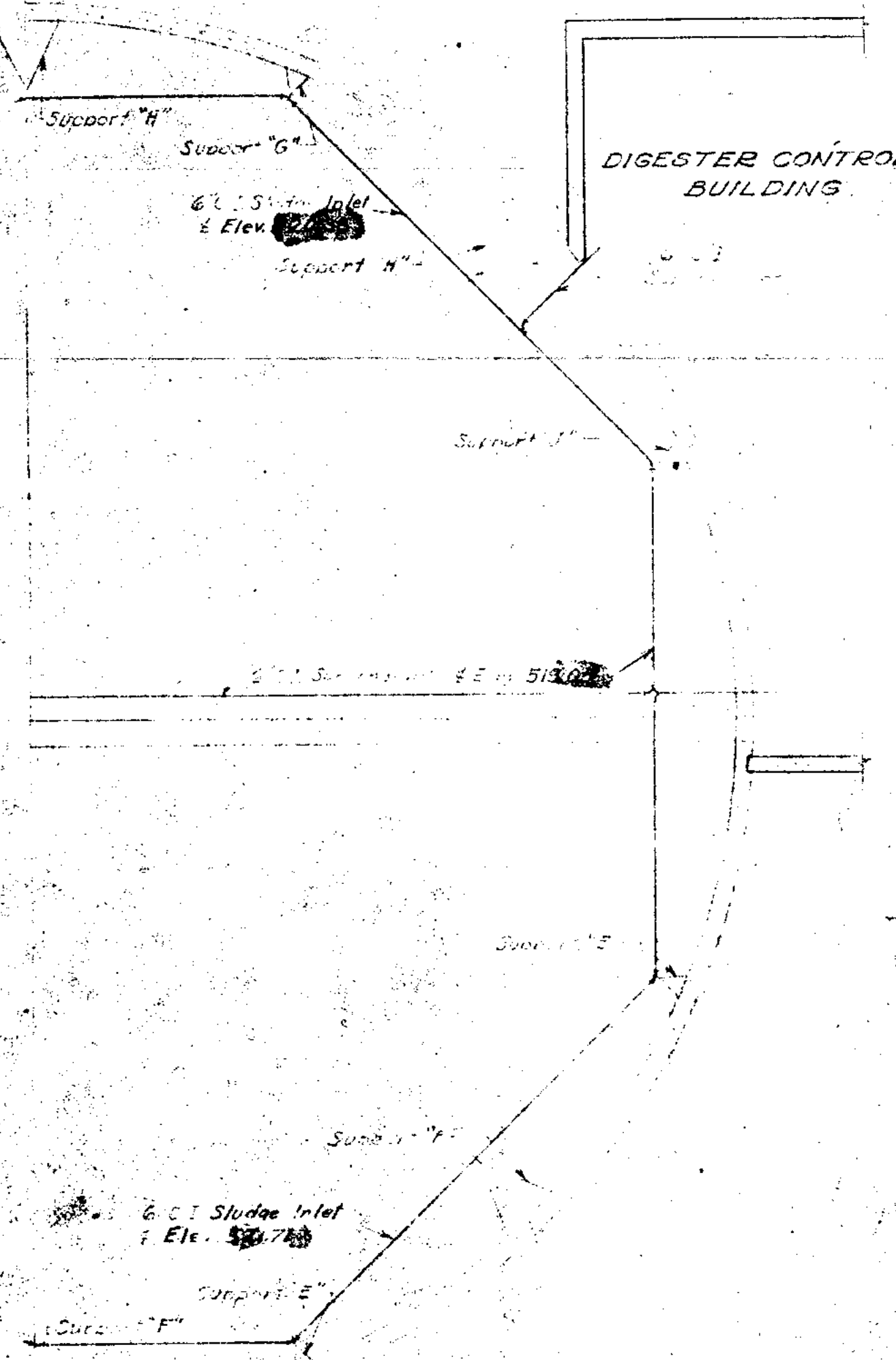
SUPPORT E

SUPPORT G

SUPPORT H

SUPPORT J

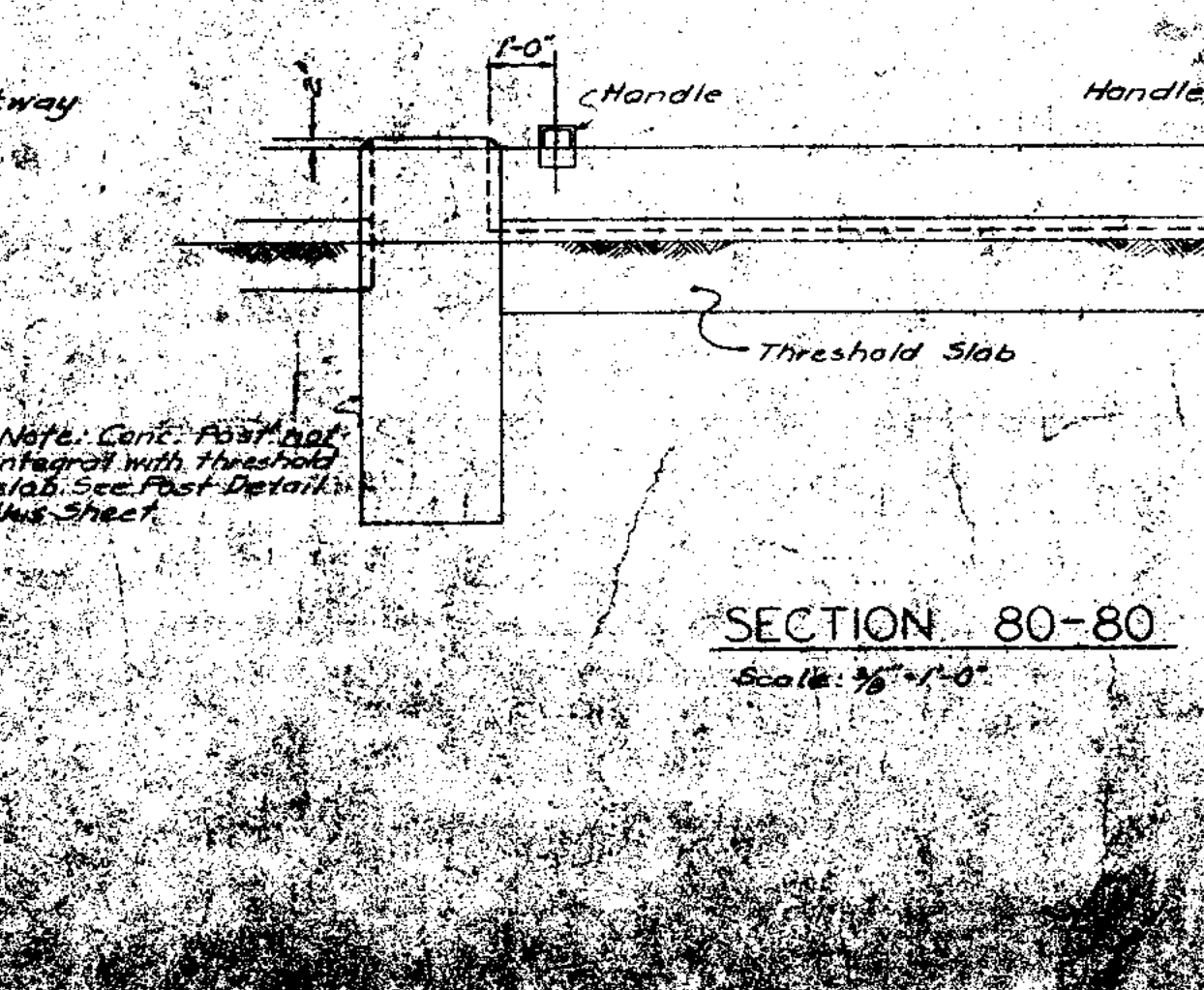
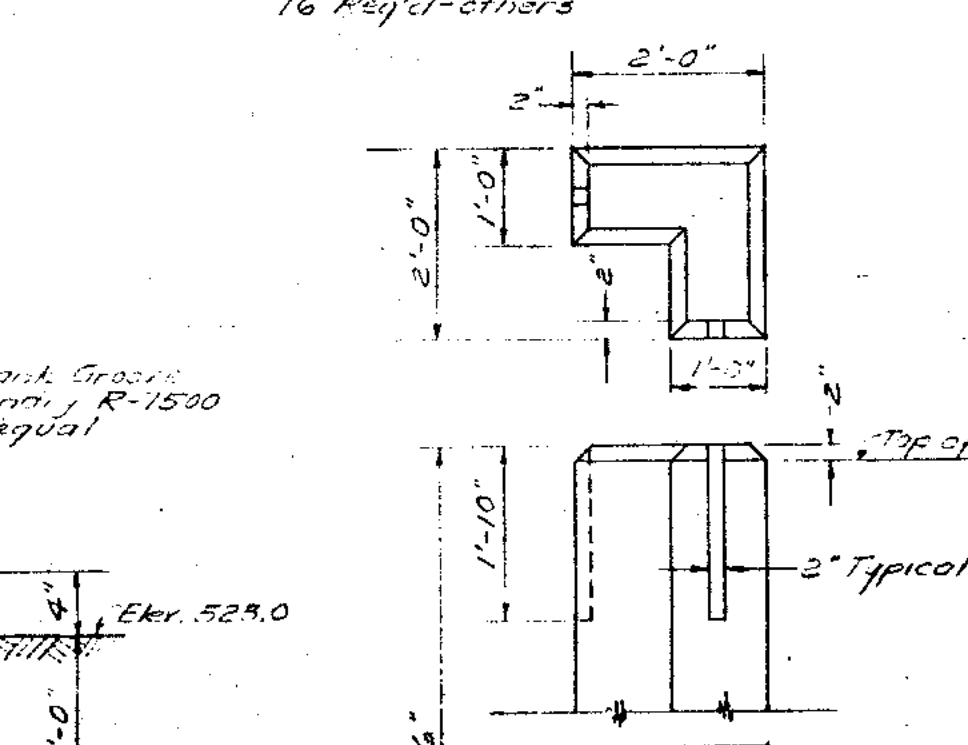
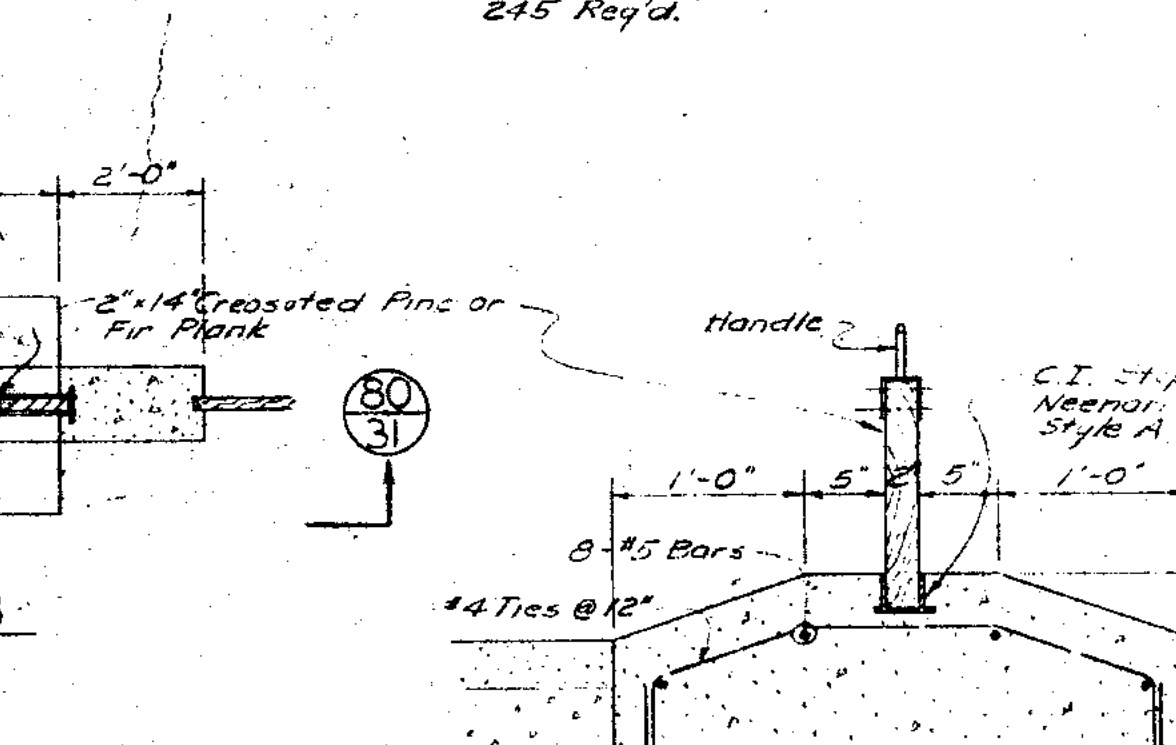
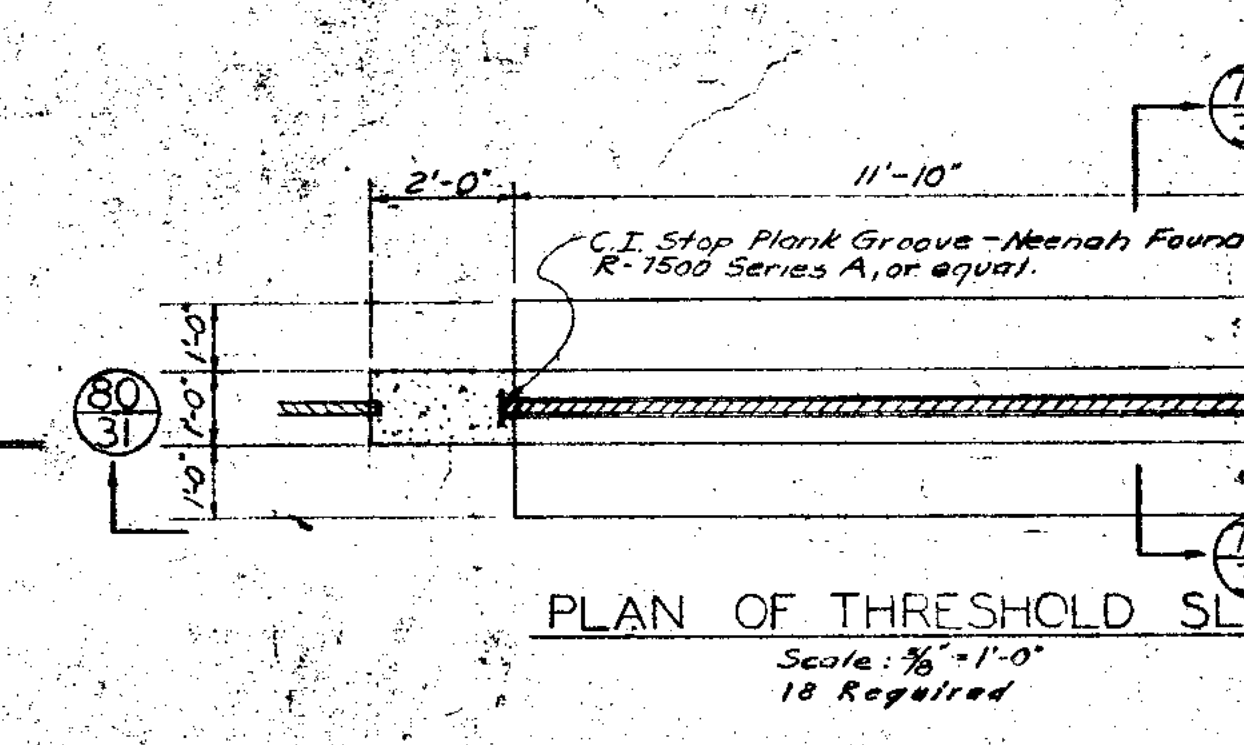
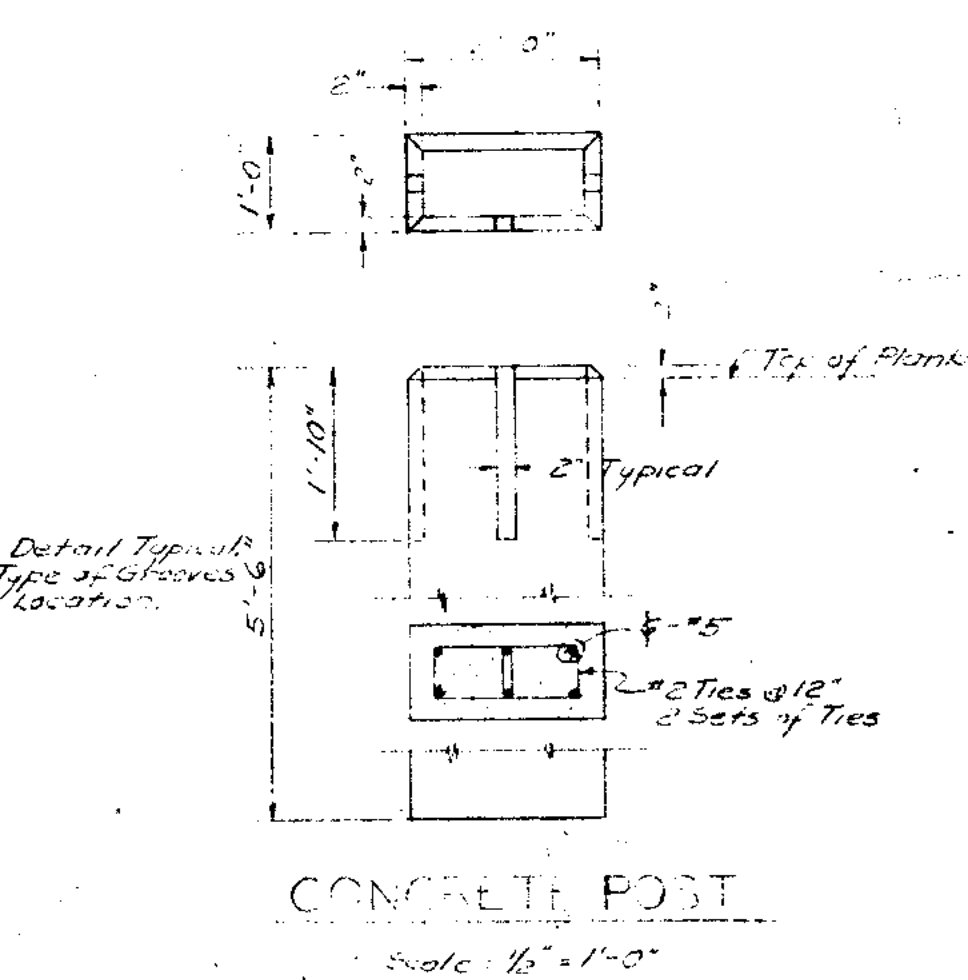
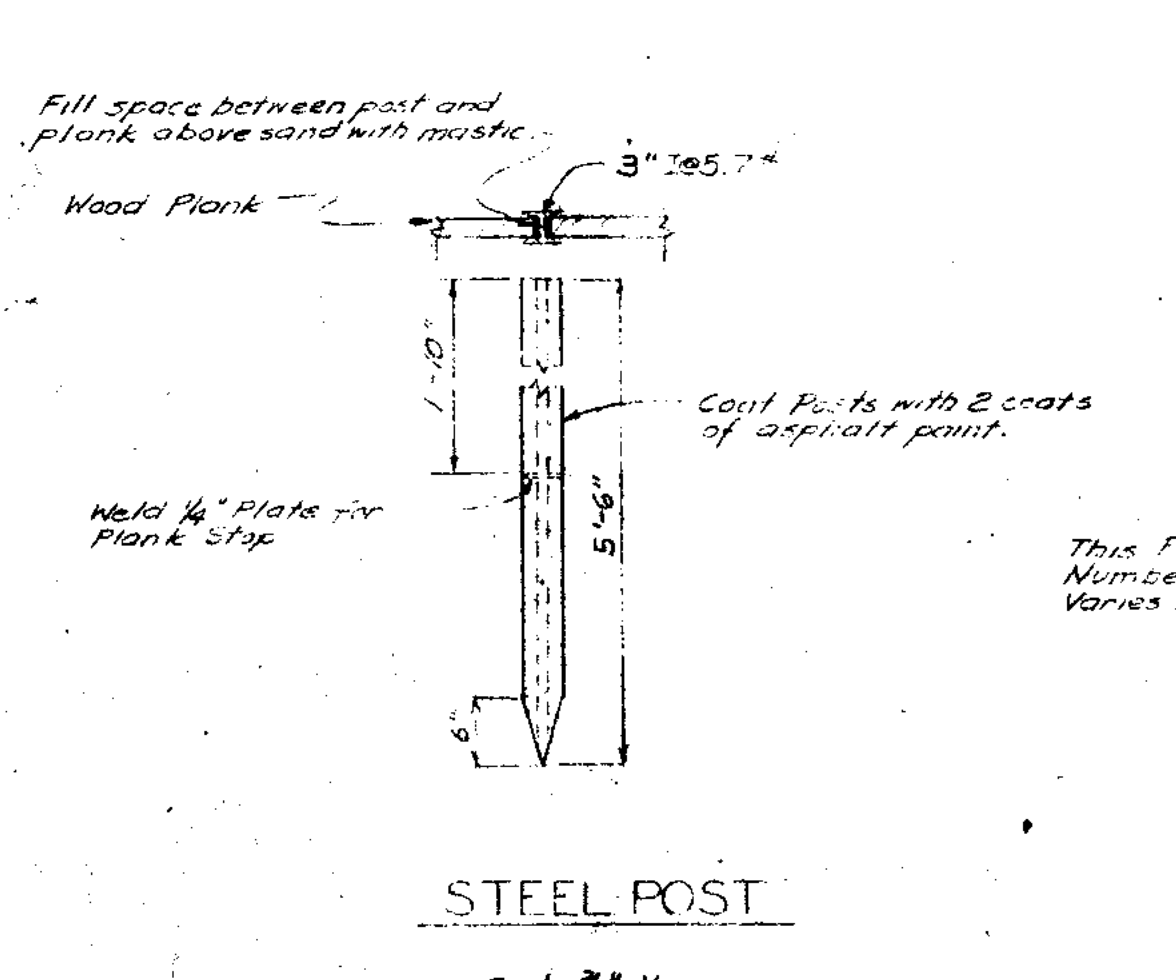
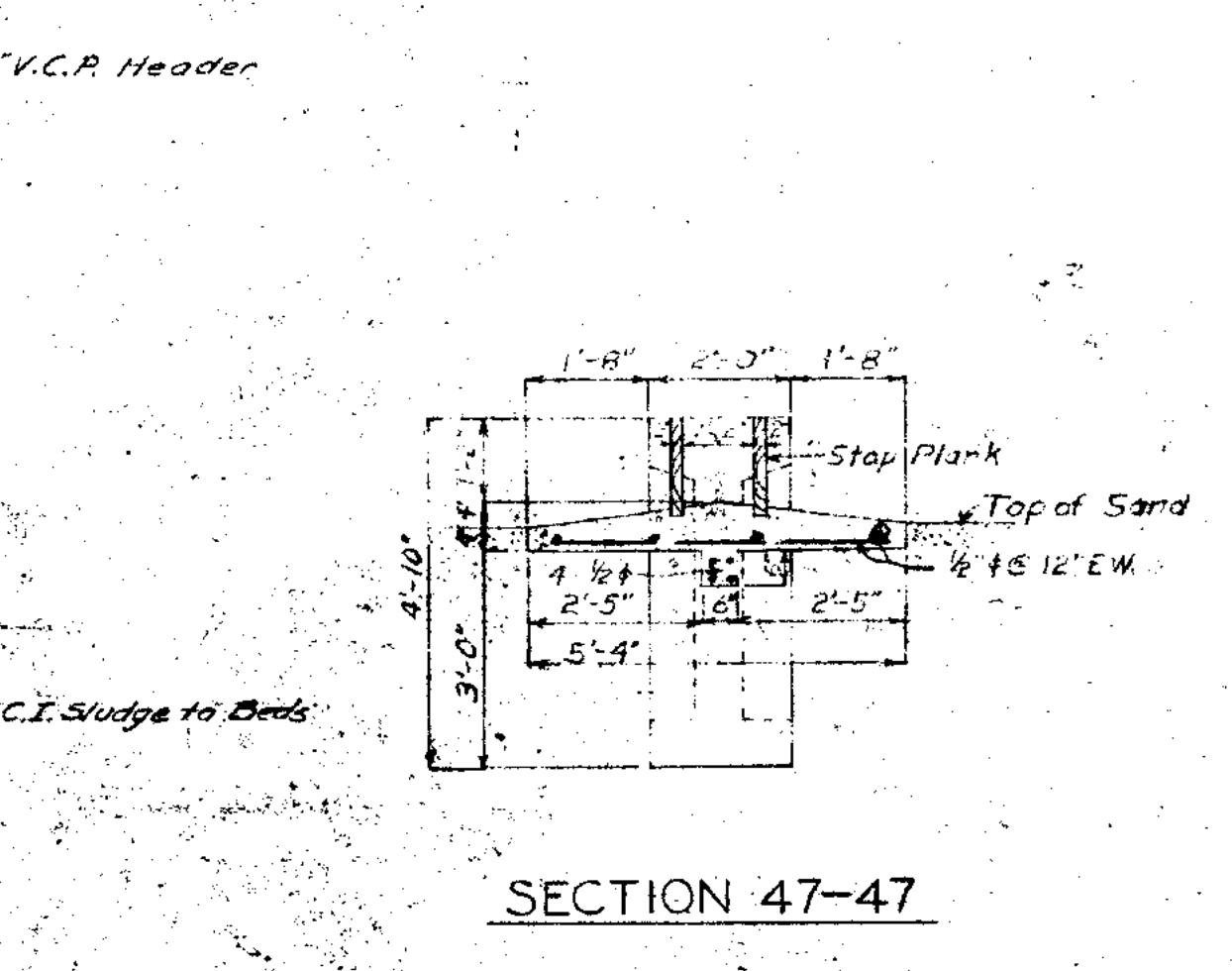
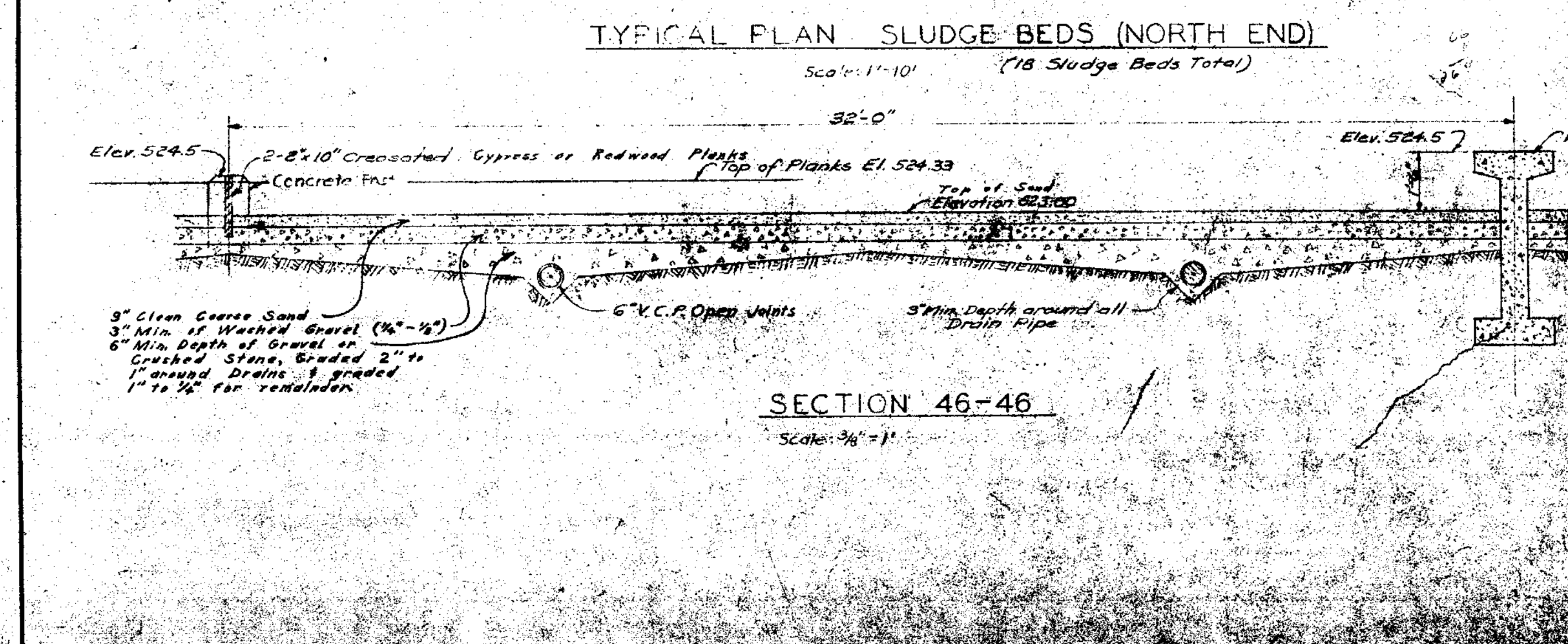
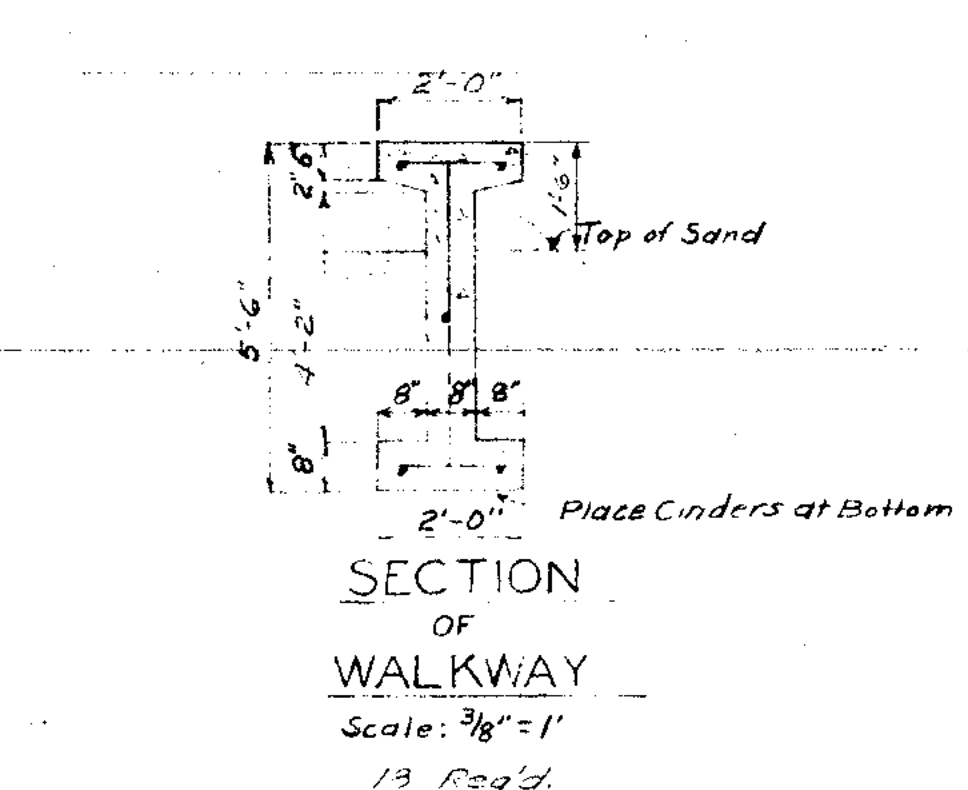
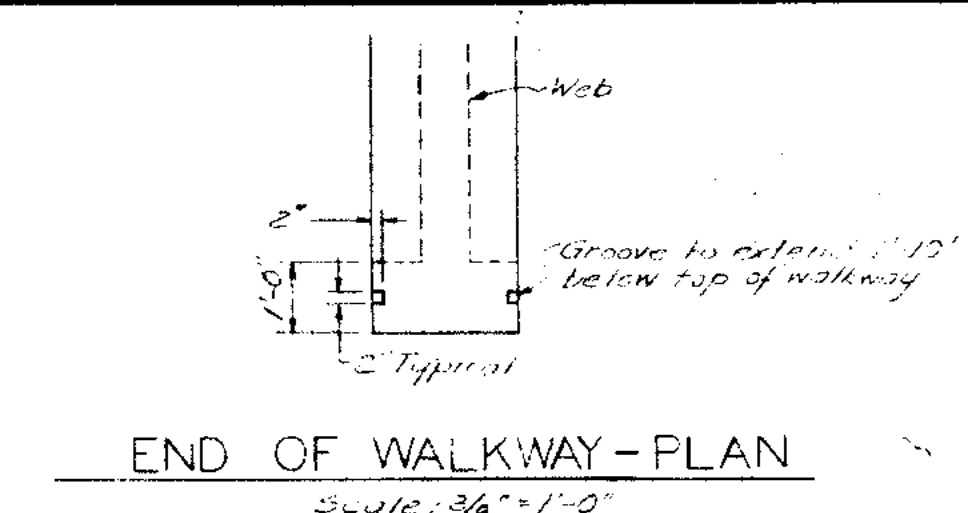
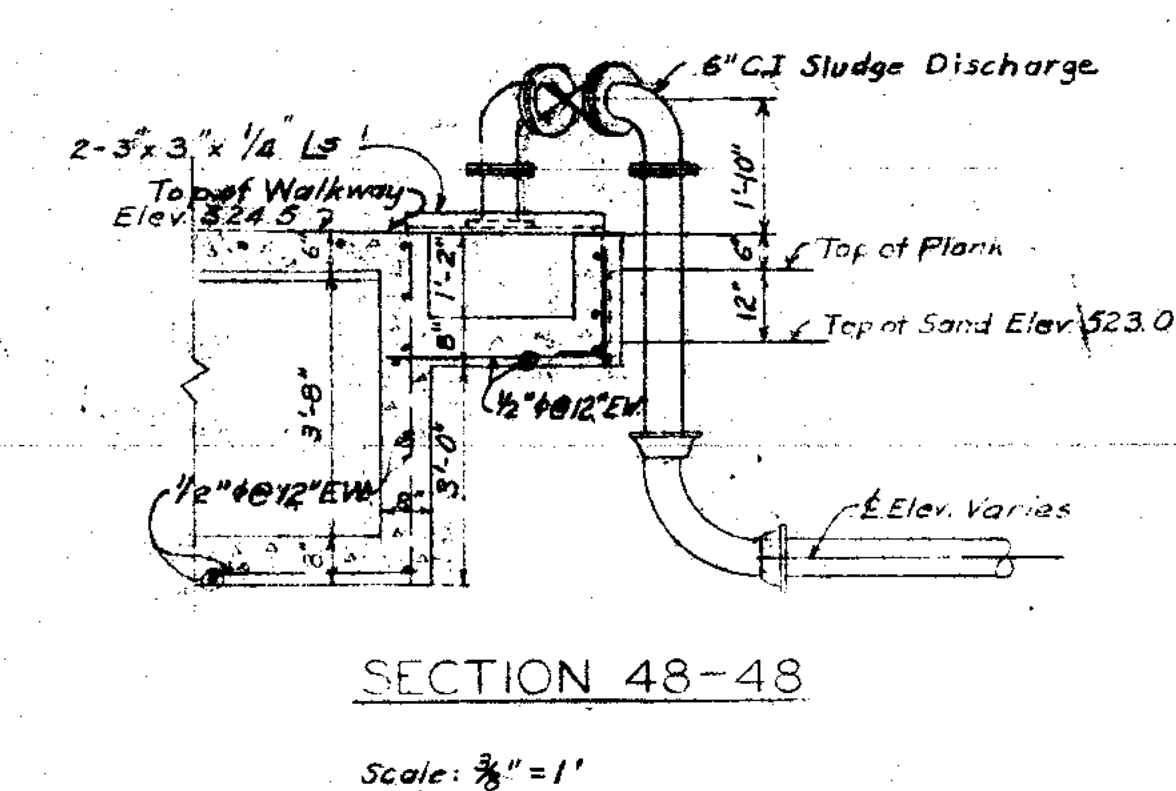
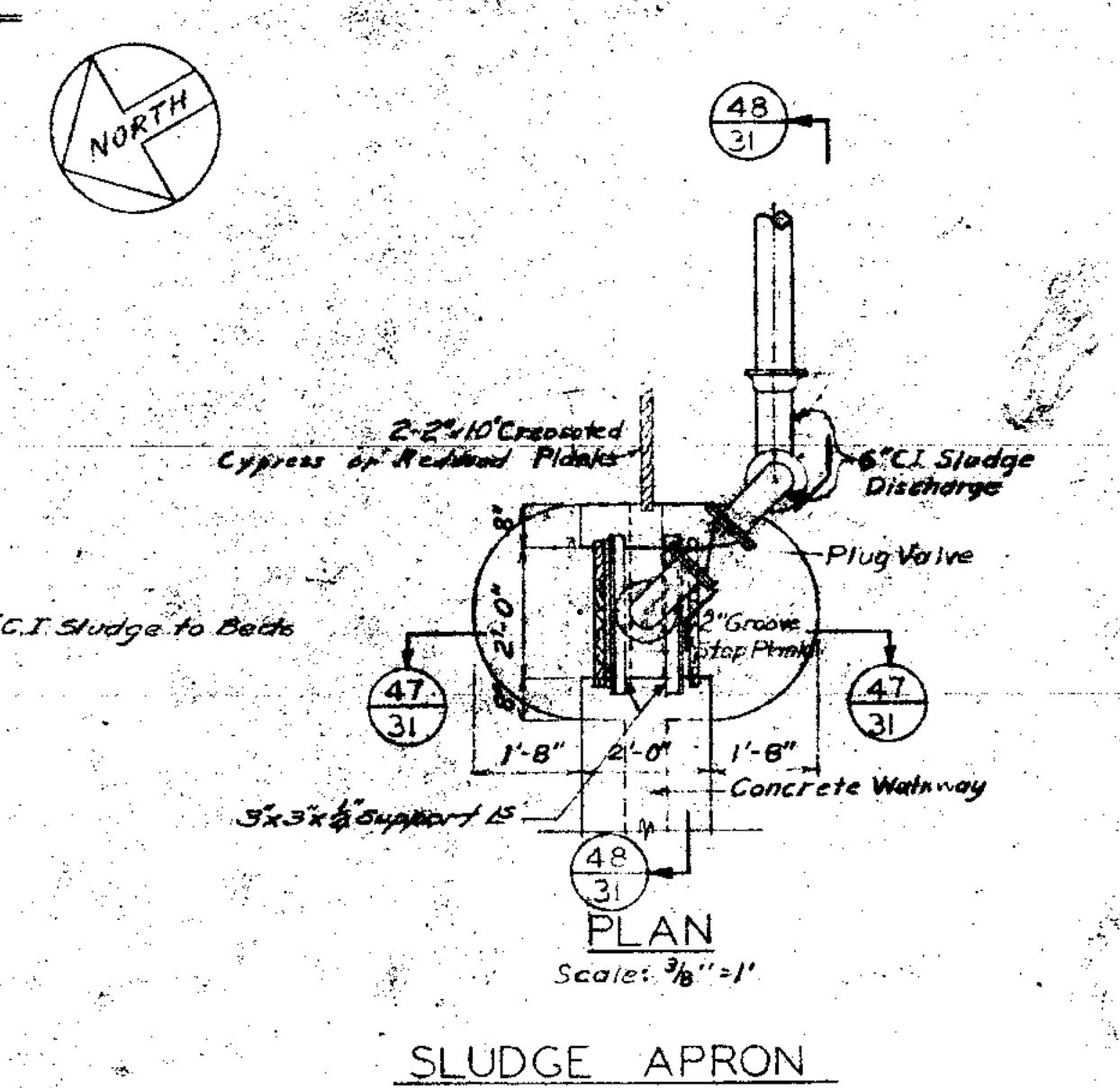
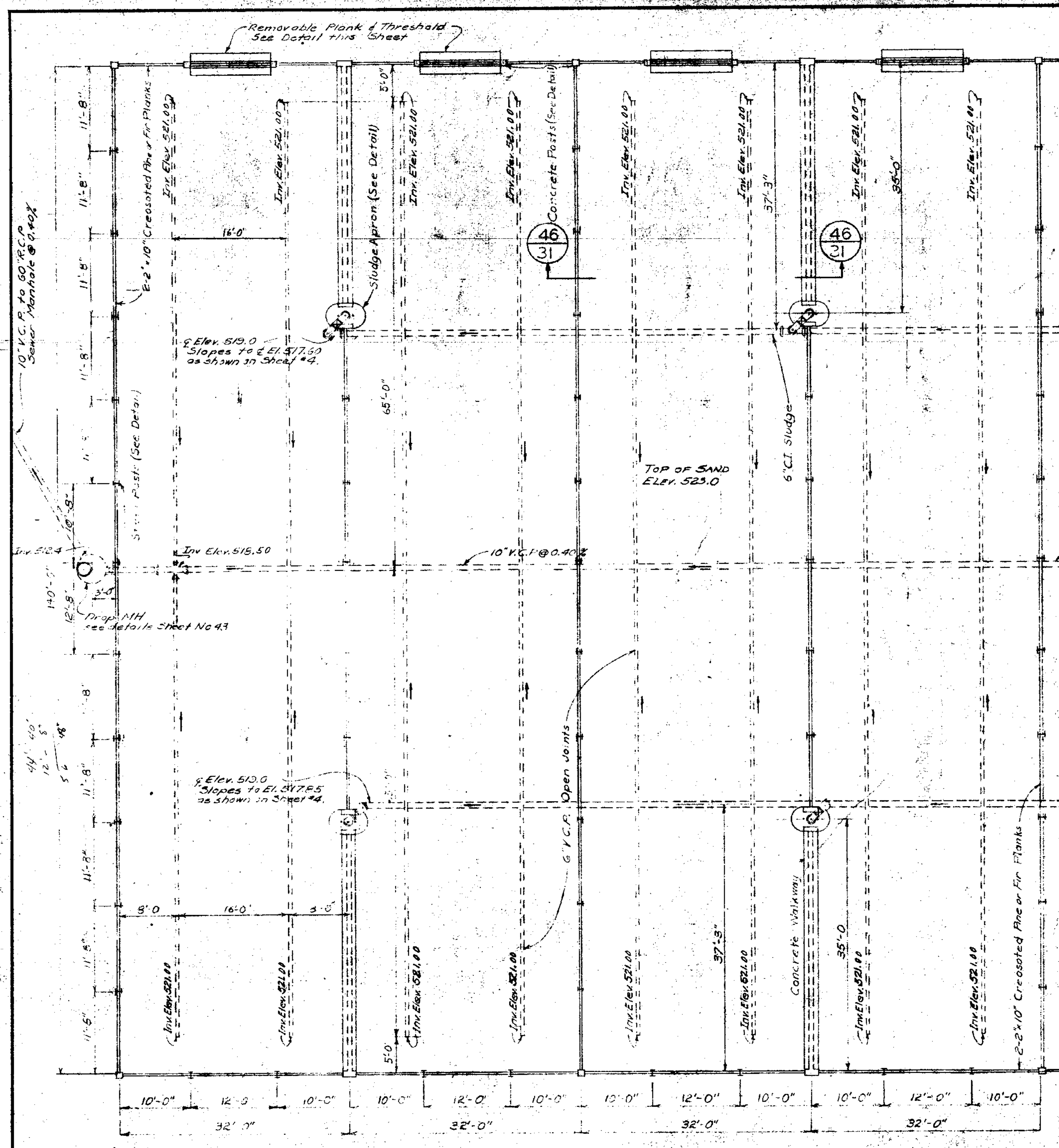
DETAIL OF SUPPORTS



PLAN OF SLUDGE INLET AND SUPERNATANT PIPES ALONG WALLS

<b>JOLET, ILLINOIS</b>		
<b>SEWAGE TREATMENT PLANT</b>		
<b>DIGESTERS - PIPING &amp; SUPPORTS</b>		
DRAWN BY: S.L.Z.	<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.	SCALE As Shown
DATE JAN. 1951		REVISED:
CHECKED BY: L.F.R.		APRIL 1951
APPROVED BY: R.A.S.		SHEET NO. 3 OF 5





**JOLIET ILLINOIS  
SEWAGE TREATMENT PLANT  
SLUDGE DRYING BEDS**

DRAWN BY: V.B.S.	<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b> CONSULTING ENGINEERS Chicago, Ill.	SCALE: AS NOTED
DATE: Jun 1981		REVISIONS:
CHECKED BY: L.F.R.		APRIL 1981
APPROVED BY: B.A.S.		SHEET NO. 37 OF 45

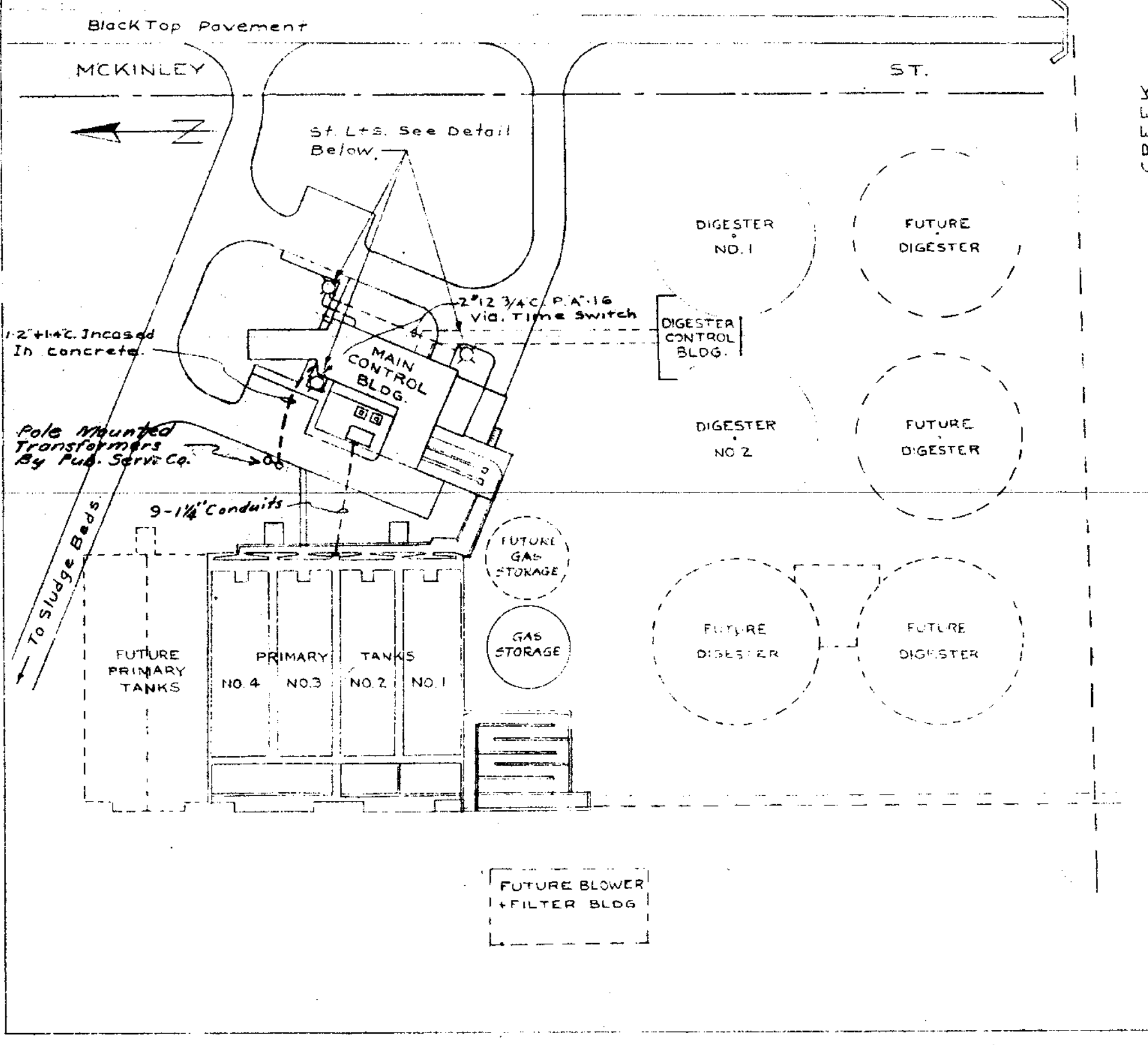
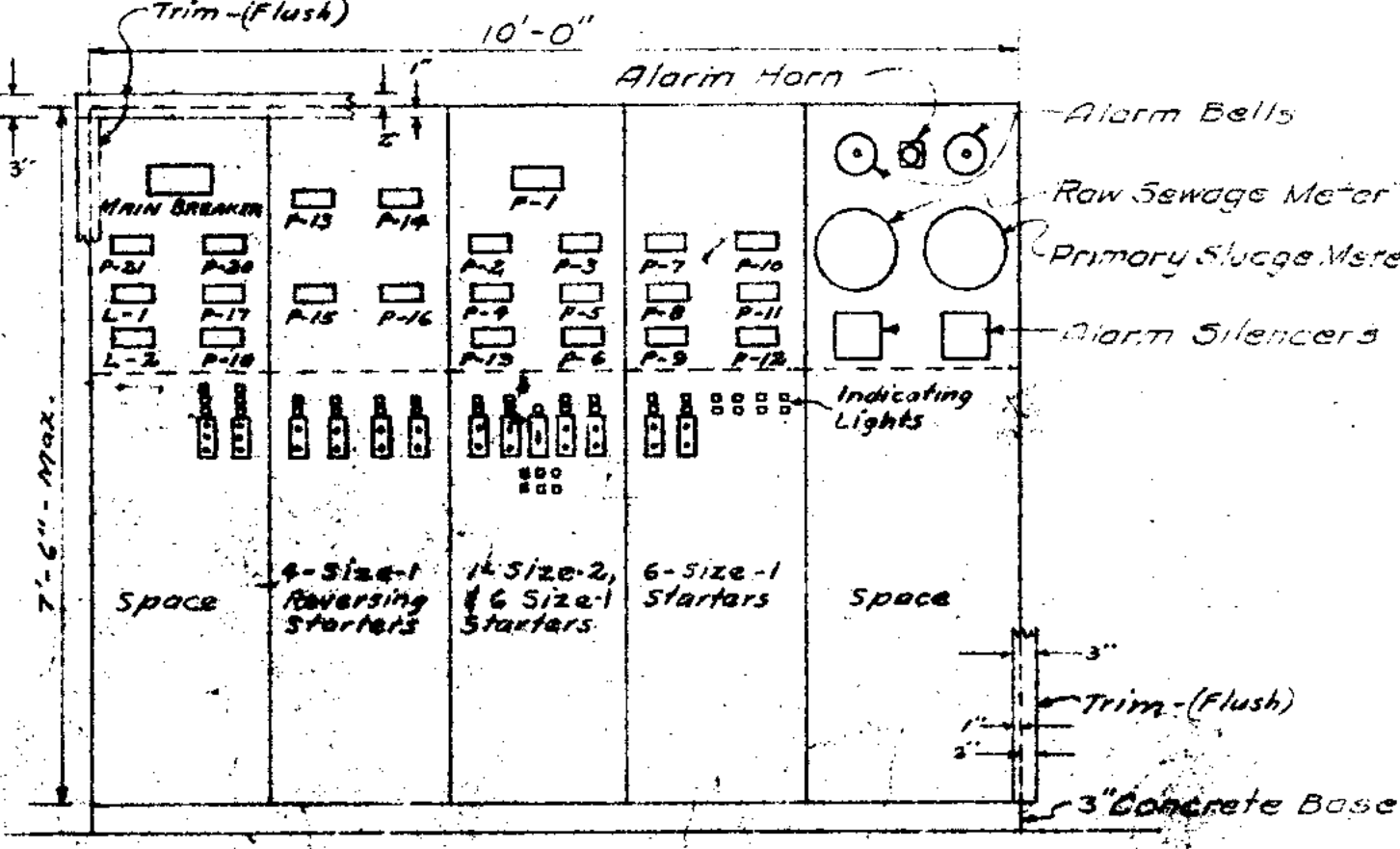
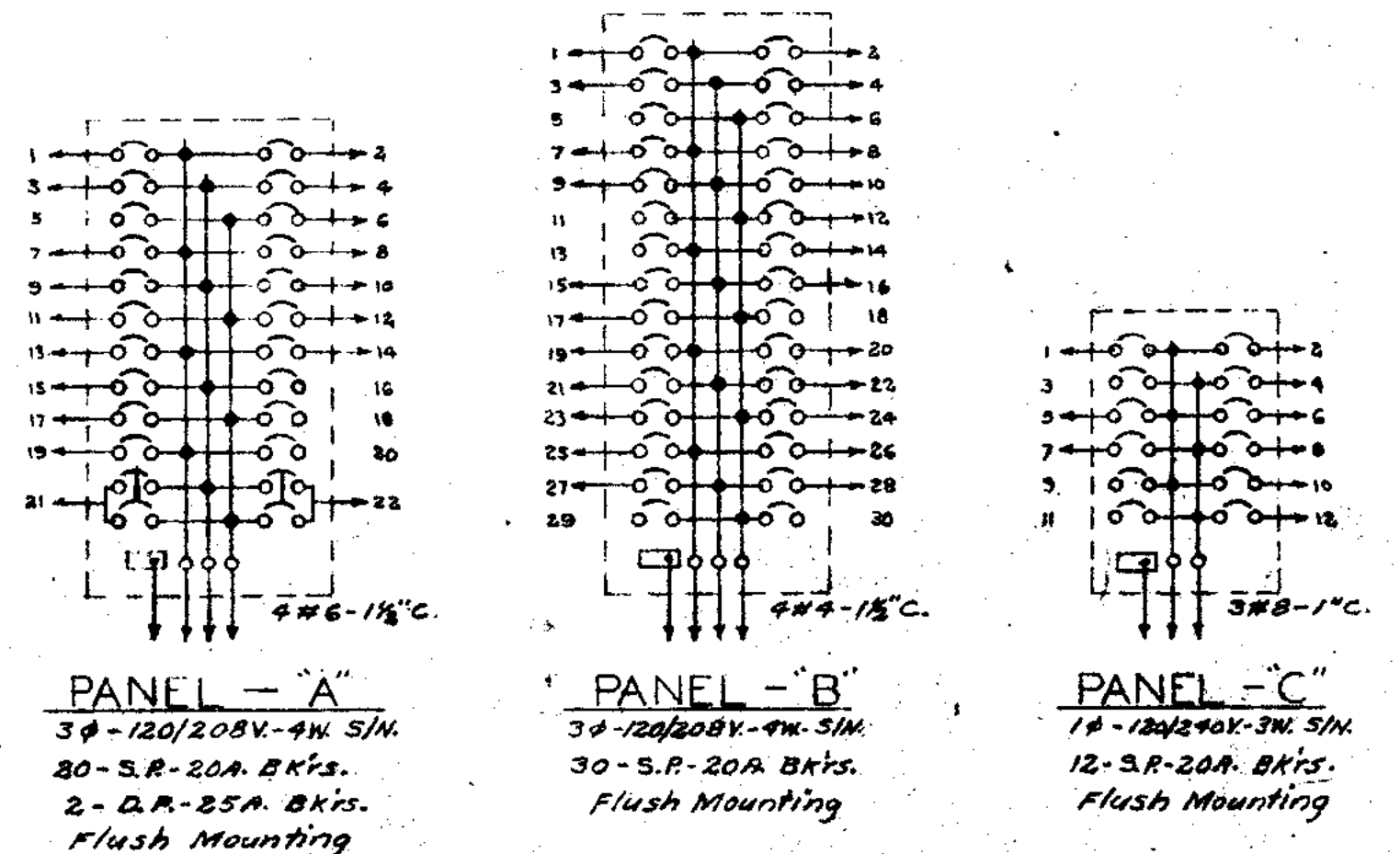


**ELECTRICAL SYMBOLS**

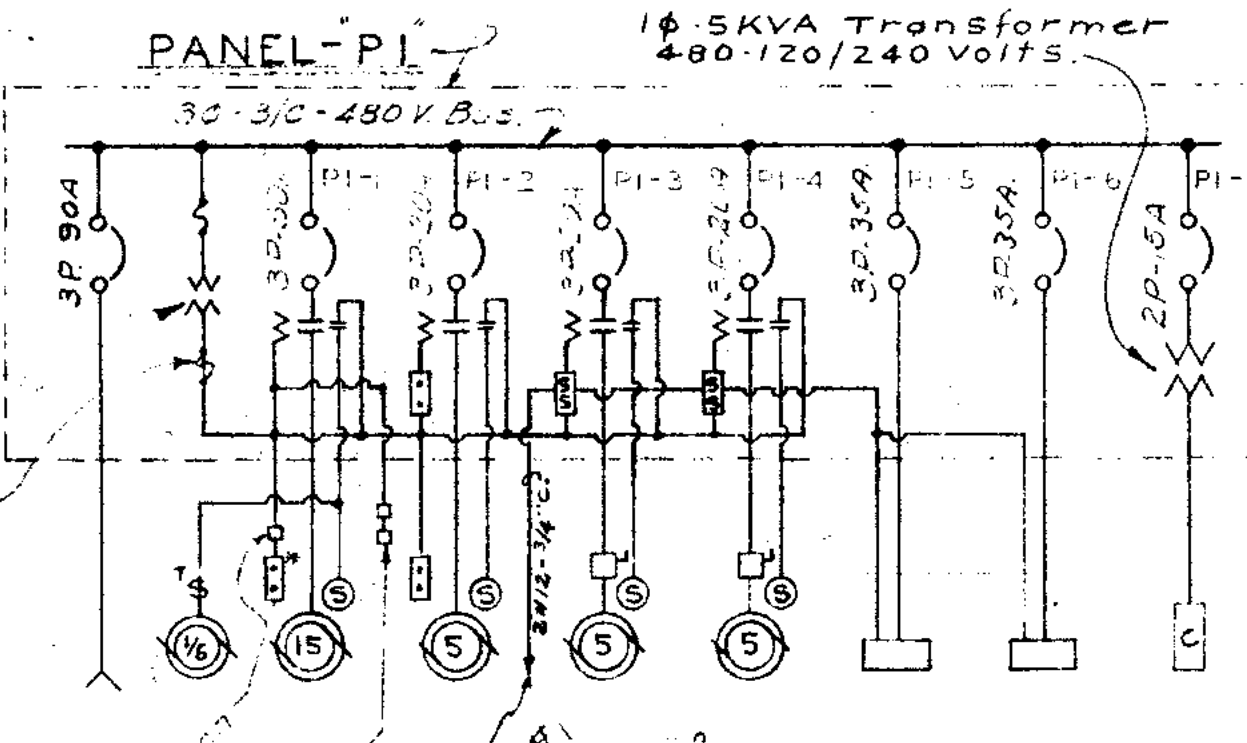
- ⊗ Ceiling Fixture Outlet Letter Indicates Type Fixture As Per Specifications And As Shown In Fixture Schedule Or Contract Drawings.
- ⊙ Wall Fixture Outlet Letter Indicates Type Fixture As Per Specifications And As Shown In Fixture Schedule Or Contract Drawings
- ⊕ Fixture Outlet With Blank Cover
- ⊖ Duplex Convenience Receptacle
- ⊗ Single Convenience Receptacle
- ⊙ 3P Tumbler Switch
- ⊙ 3-Way Tumbler Switch
- ⊙ 4-Way Tumbler Switch
- ⊙ 5P Tumbler Switch With Red Pilot Light
- ⊙ 5P Switch With Thermal Overload Heater
- ⊙ Room Thermostat
- ⊙ Temperature Control
- ⊙ Unit Heater
- ⊙ Junction Or Pull Box As Required
- ⊙ Solenoid Valve
- ⊙ Telephone Outlet
- ⊙ Selector Switch, "Hand-Off-Auto"
- ⊙ Start-Stop P.B. Station, Momentary Contact
- ⊙ \* Indicates Momentary Contact P.B. Station, "On-Off"
- ⊙ Start-Stop Reverse P.B. Station, Or As Specified Or Indicated
- ⊙ Safety Switch As Indicated & Specified
- ⊙ Manually Operated Air Circuit Breaker
- ⊙ Manually Operated Air Circuit Breaker And Automatically Operated Motor Starter
- ⊙ Manually Operated Air Circuit Breaker & Reversing Type Magnetically Controlled Motor Starter
- ⊙ Panel Or Cabinet As Shown Or Specified
- ⊙ Electric Meter, If As Indicated
- ⊙ Conduit Concealed In Wall Or Ceiling
- ⊙ Conduit Concealed In Floor Slab Or Underground
- ⊙ Exposed Conduit
- \* Cross Hatched Indicate Number Of Wires In Conduit
- Letter And Number Indicates Panel And Circuit Number
- W.P. Indicates Weather-proof Equipment

**FIXTURE SCHEDULE**

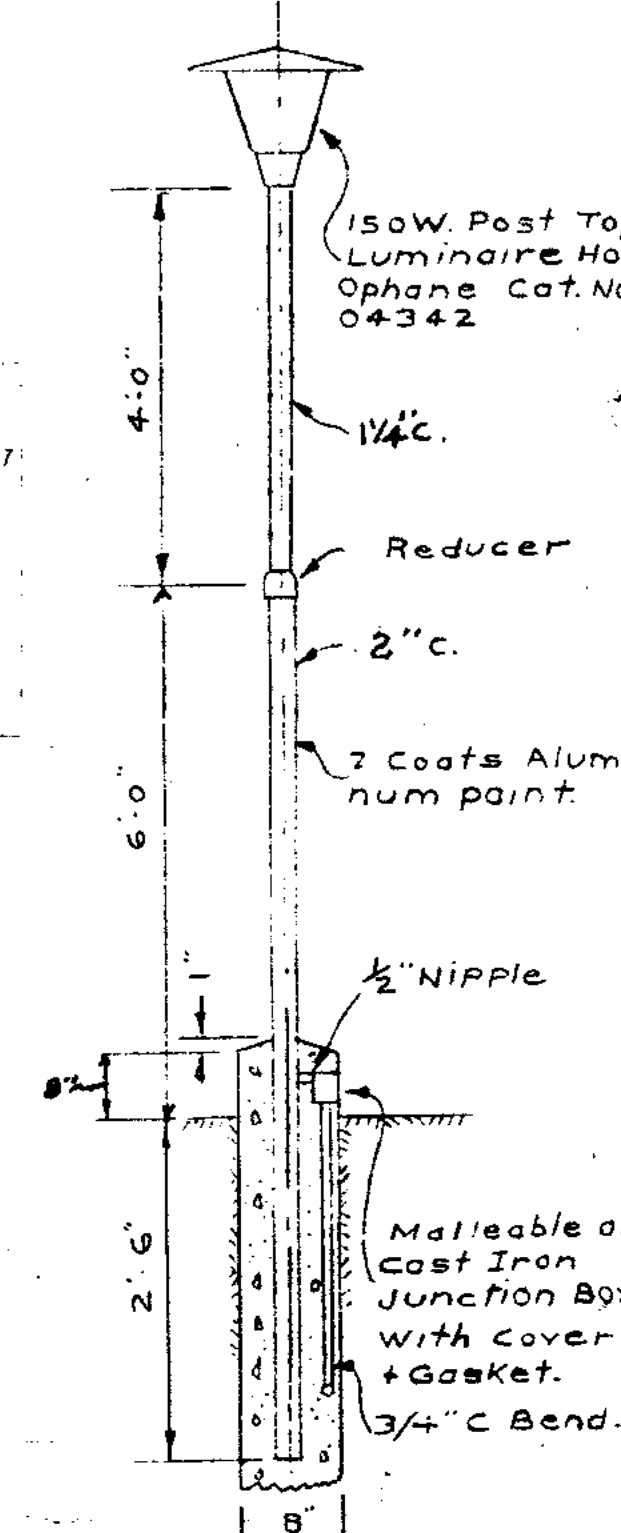
- ⊗ Floodlight - 500W Revere Cat. #189-24 Or Approved Equal.
- ⊗ Floodlight with PAR-38 Floodlamp, Applator Electric Co. #3-601 Or Equal.
- ⊗ Asymmetric Fixture With Socket Extension For 60W Lamp, Halophane #C-2173 Or Approved Equal.
- ⊗ Extensive Symmetric Fixture Halophane #02470 Or Approved Equal.
- ⊗ Graybar Cat #M406 Or M-406-As Shown Or Approved Equal
- ⊗ Vaporlight Fixture With Opal Glass (R.C.S) Graybar Cat #1470 FG Or Approved Equal.
- ⊗ Indirect Fixture, Guth # R1590 Or Approved Equal
- ⊗ Perfectite Cat #E.P.-386-3D Or Approved Equal
- ⊗ Industrial Fluorescent Fixture, 2T-85W, With Eggcrate Louvers & Stem Hangers, Guth Cat #M430L(N)/G/L Or Equal.
- ⊗ Fluorescent Fixture, 2T-40W, With Louvers & Stem Hanger, Guth Cat #M4300 Or Approved Equal.
- ⊗ Recessed Fluorescent Fixture, 2T-40W, Guth Cat #G.E. 3005WB Or Approved Equal.
- ⊗ Fluorescent Fixture, 4T-40W, Guth Cat No. EC-5252, With Stem Hangers Or Approved Equal.
- ⊗ Fluorescent Fixture, 4T-40W, With Stem Hangers, Guth Co. Cat. #G.E. 5252 Or Approved Equal.
- ⊗ Fluorescent Fixture, 3T-40W, Guth Co. #M4301/UL Or Approved Equal.
- ⊗ Fluorescent Strip Light, 1T-40W, Leacor Electric Co. Cat #S-140 Or Approved Equal.



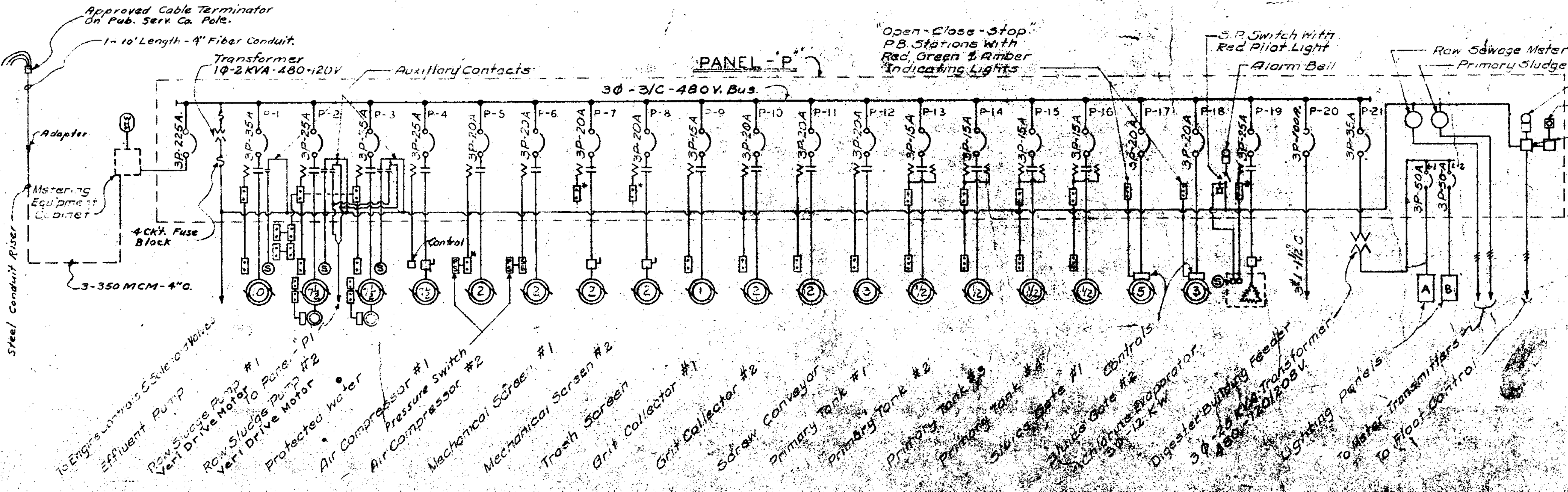
PLOT PLAN  
SCALE: 1" = 60'



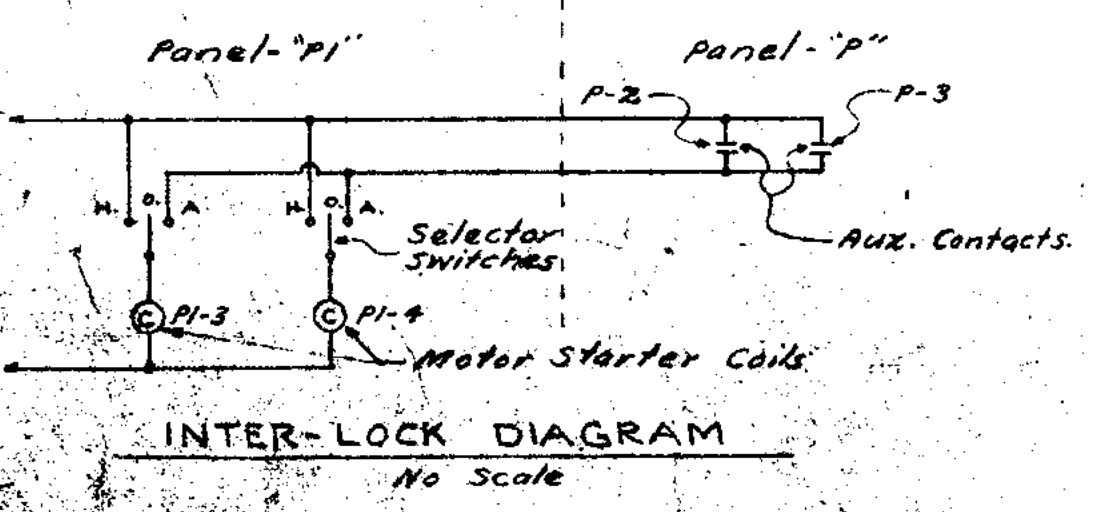
SINGLE LINE WIRING DIAGRAM  
No Scale



STREET LIGHT  
INSTALLATION DETAIL  
No Scale



SINGLE LINE WIRING DIAGRAM  
No Scale



INTER-LOCK DIAGRAM  
No Scale

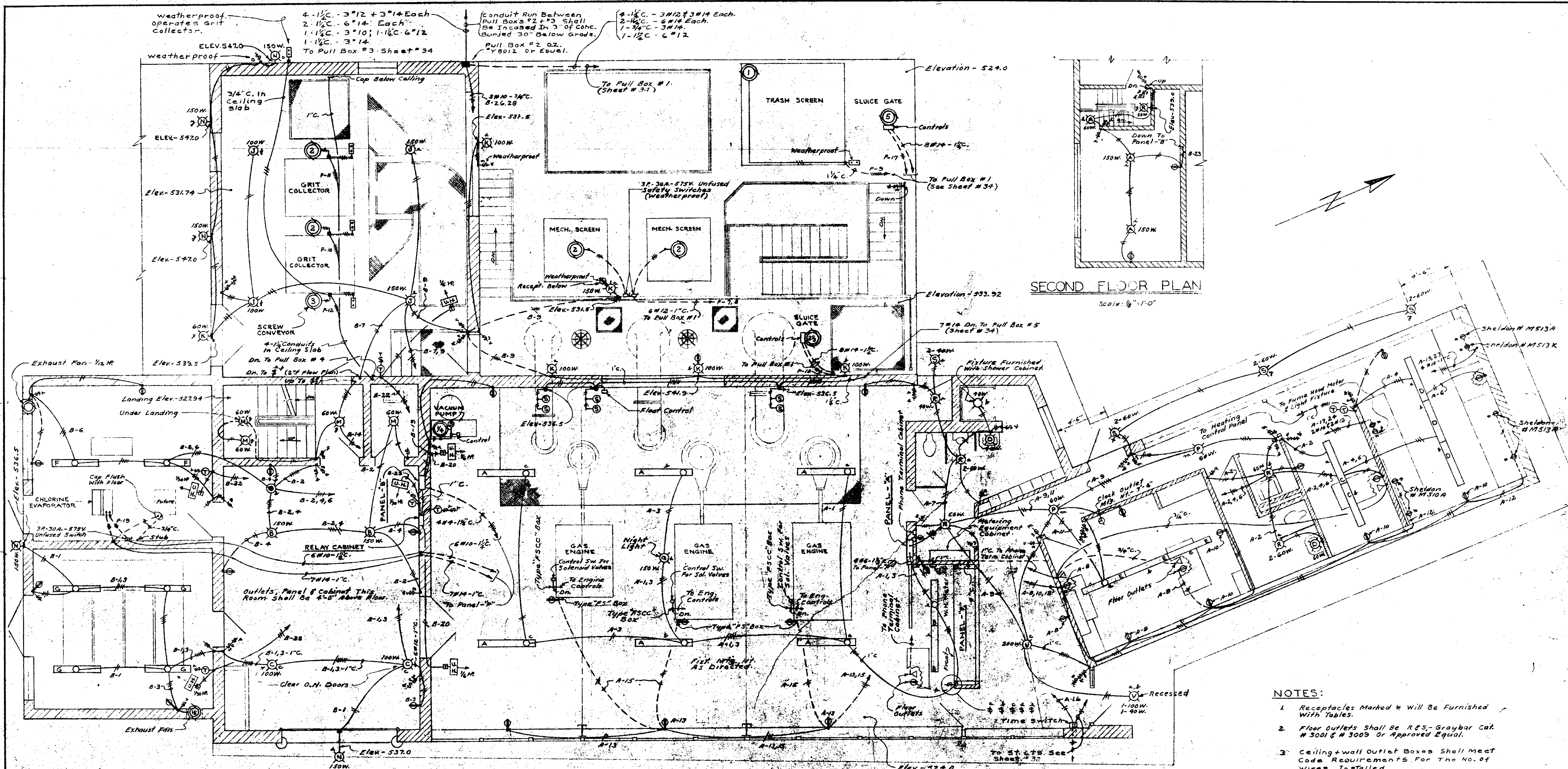
**JOLIET, ILLINOIS  
SEWAGE TREATMENT PLANT**

**PLOT PLAN-PANELS & DIAGRAMS - ELECTRICAL**

DRAWN BY: Z. R. M.	SCALE: As Shown
CHECKED BY: H.S.L.	REVISIONS:
APPROVED BY: E.A.S.	APRIL 1954 SHEET NO. 32 OF 45 SHEETS

**CONSOER, TOWNSEND & ASSOCIATES**  
CONSULTING ENGINEERS  
CHICAGO, ILL.

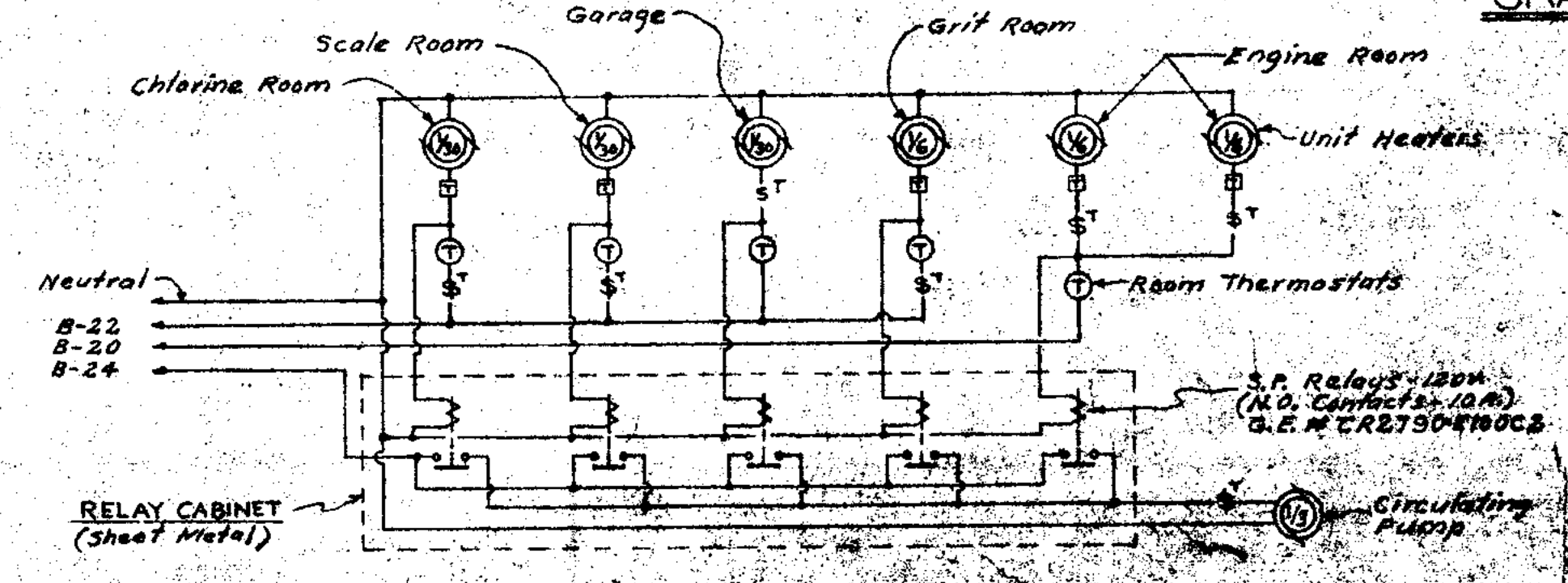




SECOND FLOOR PLAN  
Scale: 1/8"=1'-0"

GRADE FLOOR PLAN  
Scale: 1/8"=1'-0"

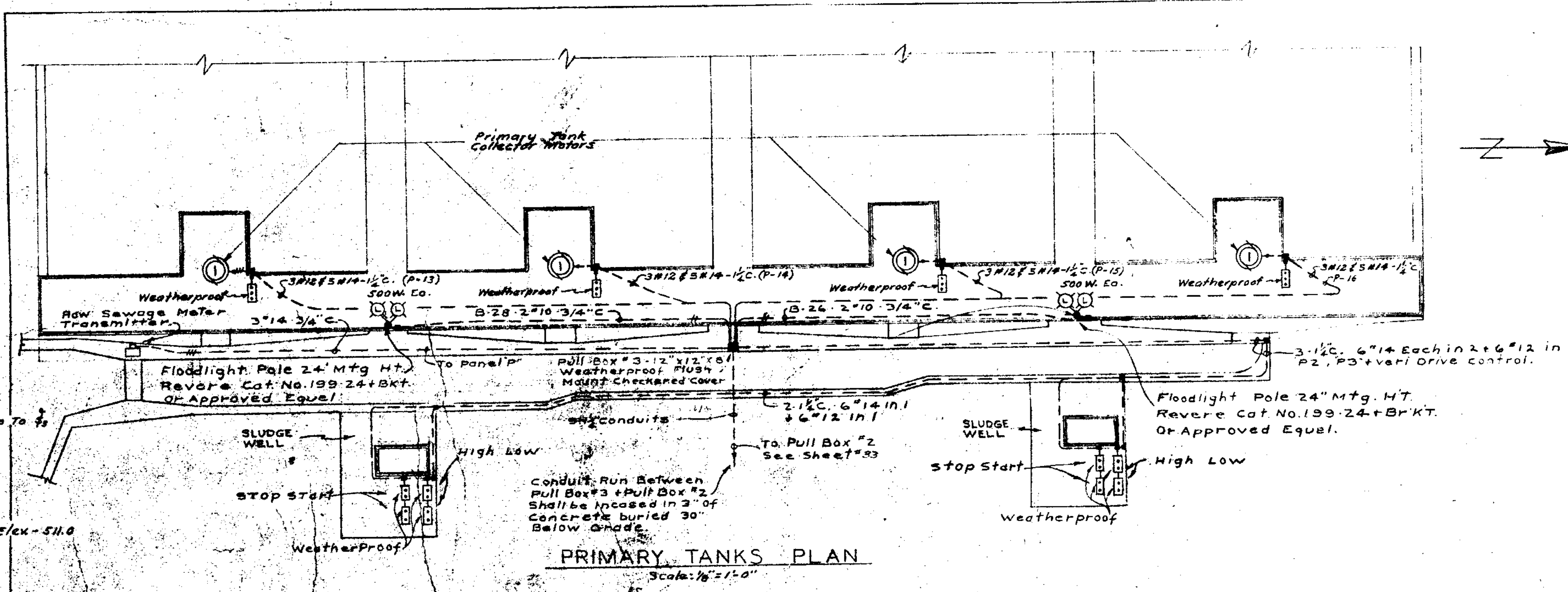
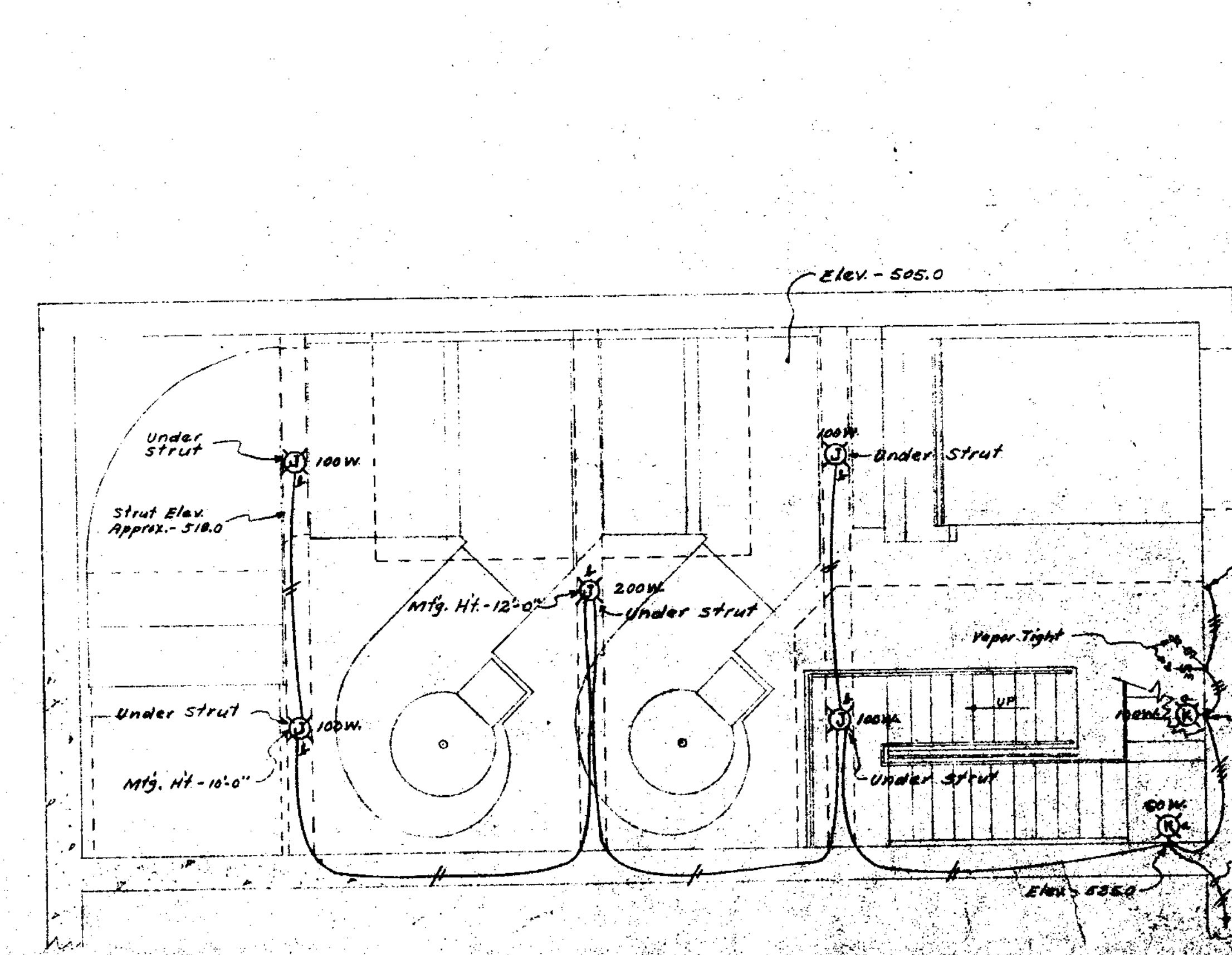
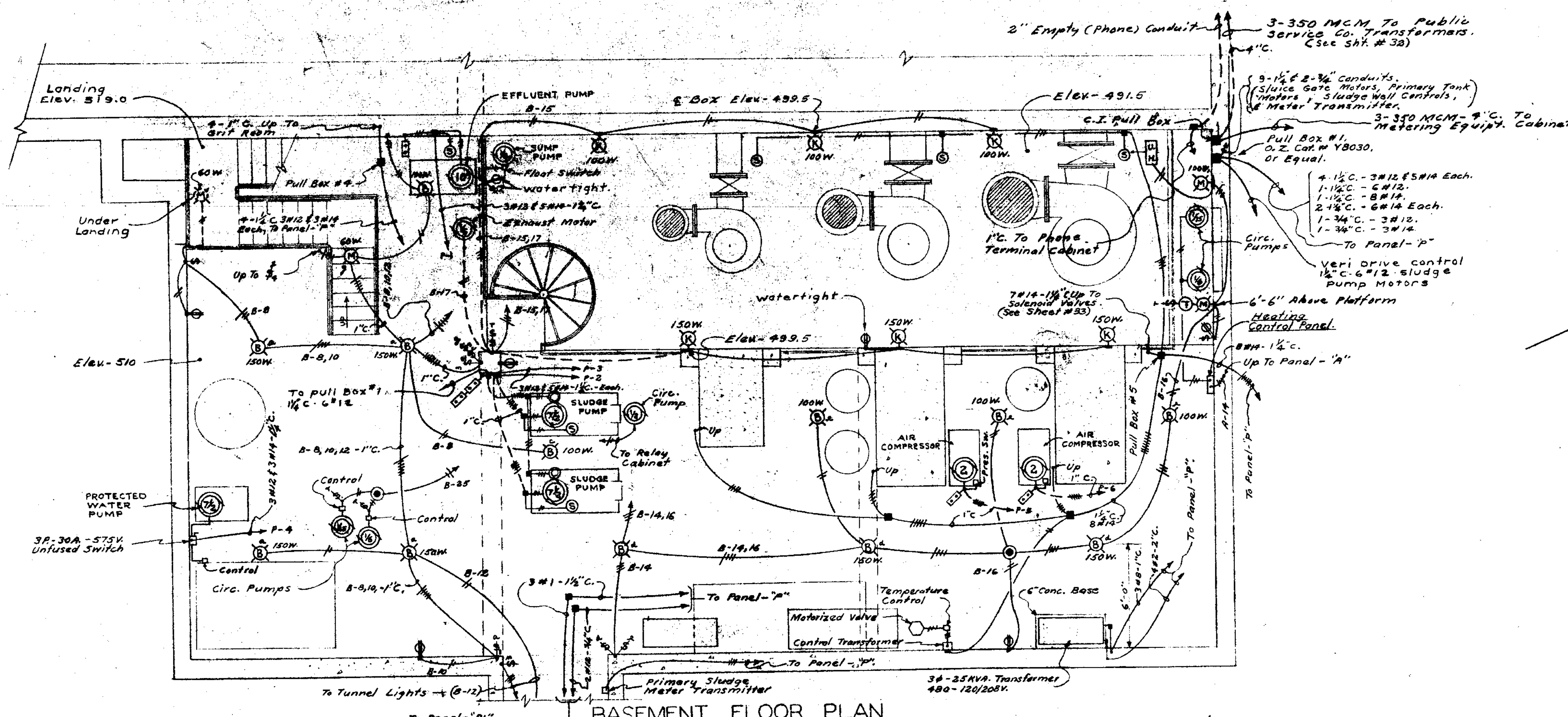
- NOTES:
1. Receptacles Marked \* Will Be Furnished With Tables.
  2. Floor outlets shall be R&S- Graybar Cat. # 3001 & # 3003 or Approved Equal.
  3. Ceiling & wall outlet boxes shall meet Code Requirements for the No. of wires installed.



WIRING DIAGRAM  
UNIT HEATERS & CONTROLS  
No Scale

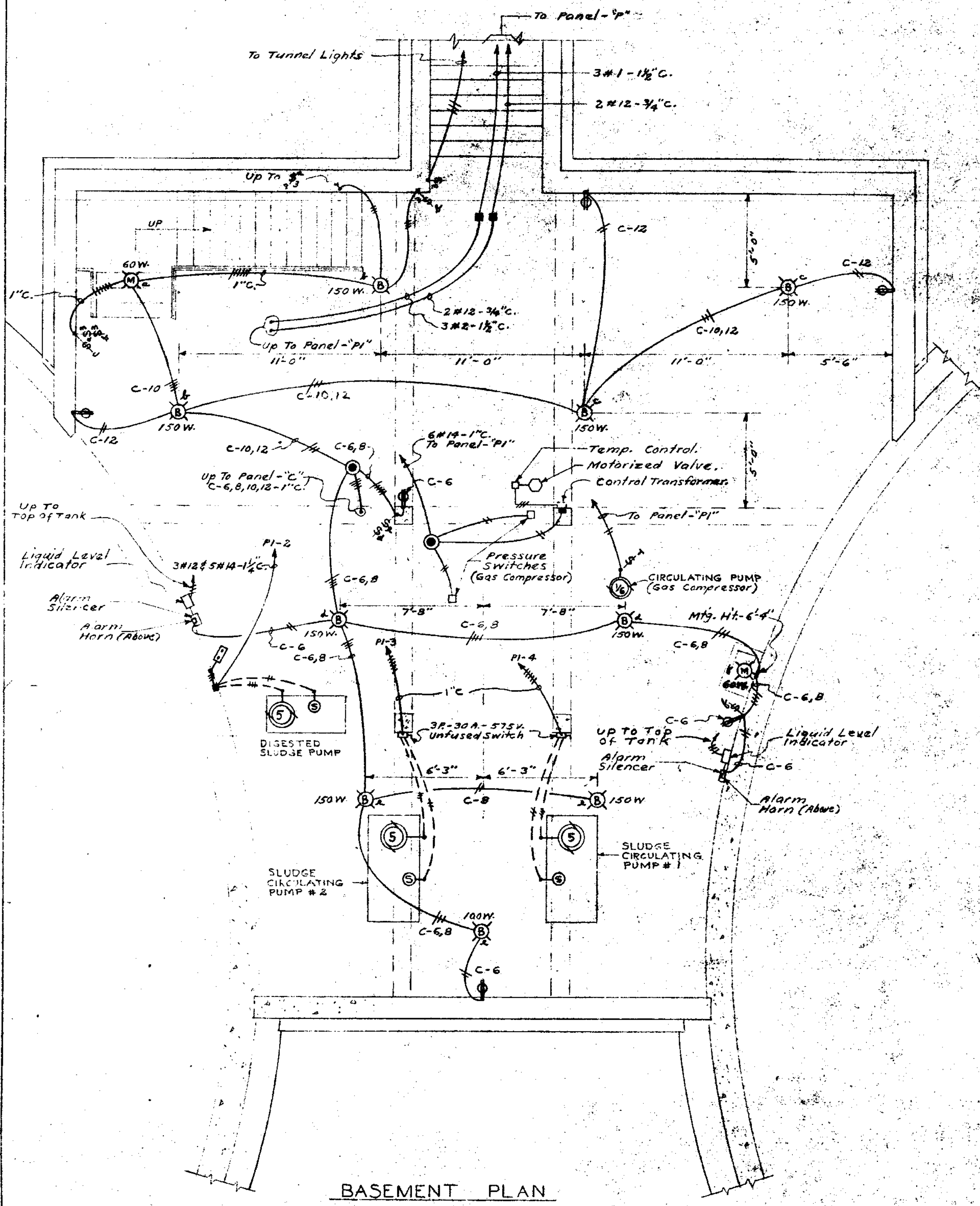
<b>JOLIET ILLINOIS</b> <b>SEWAGE TREATMENT PLANT</b>	
<b>MAIN CONTROL &amp; GRIT BUILDINGS- ELECTRICAL</b>	
DRAWN BY: Z. R. M. DATE: JAN. 1951 CHECKED BY: H. S. L. APPROVED BY: E. A. S.	<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.
SCALE: AS SHOWN REVISED: APPROVED: SHEET NO. 58 OF 45 (ENCL.)	



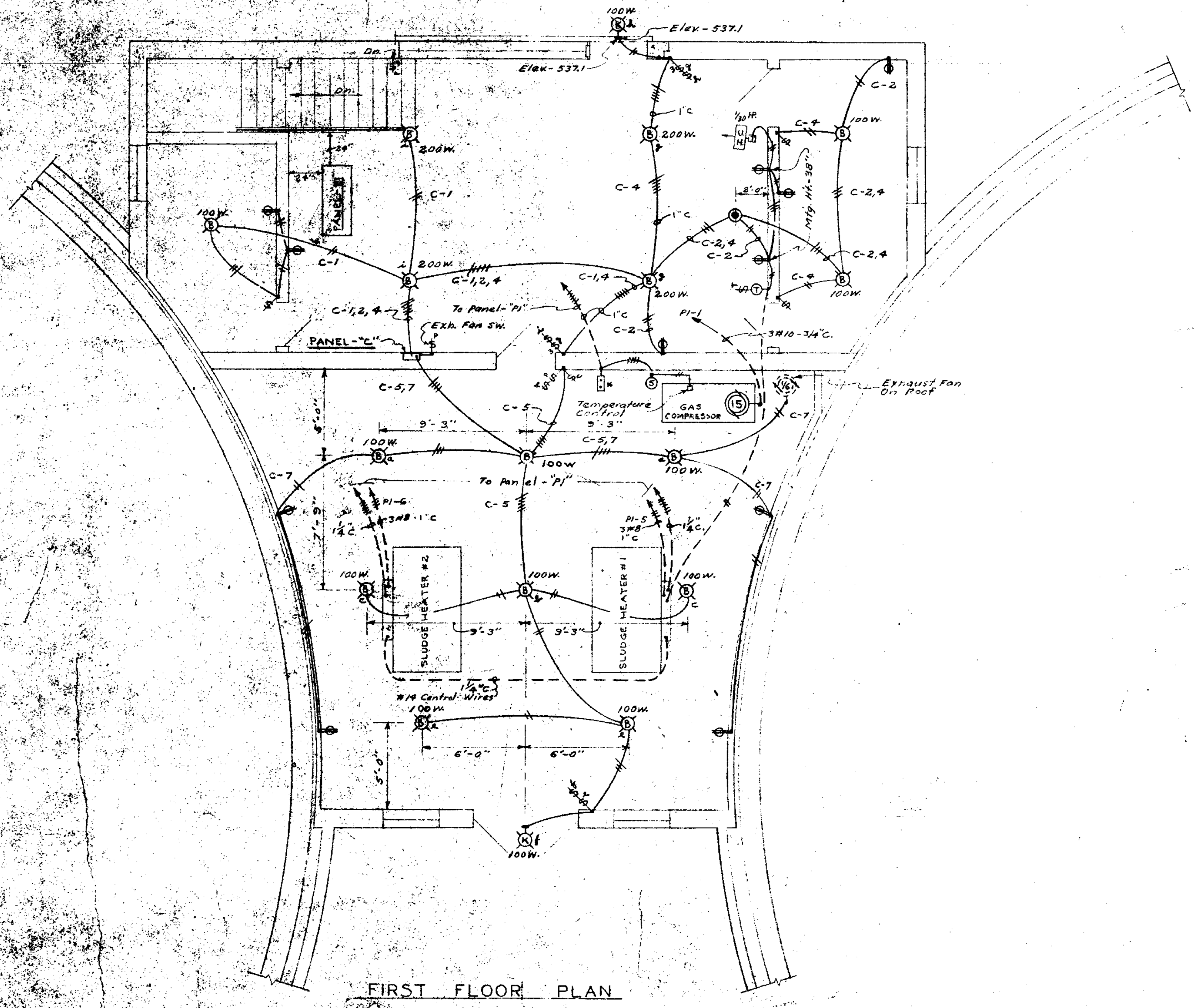


JOLIET ILLINOIS SEWAGE TREATMENT PLANT	
MAIN CONTROL BUILDING, PRIMARY TANKS & SCREEN CHAMBER - ELECTRICAL	
DRAWN BY: Z. R. M.	SCALE: As shown
DATE: JAN. 1951	REVISIONS:
CHECKED BY: M. C. Z.	APRIL 1951
APPROVED BY: R. A. S.	SHEET NO. 34 OF 45
<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.	

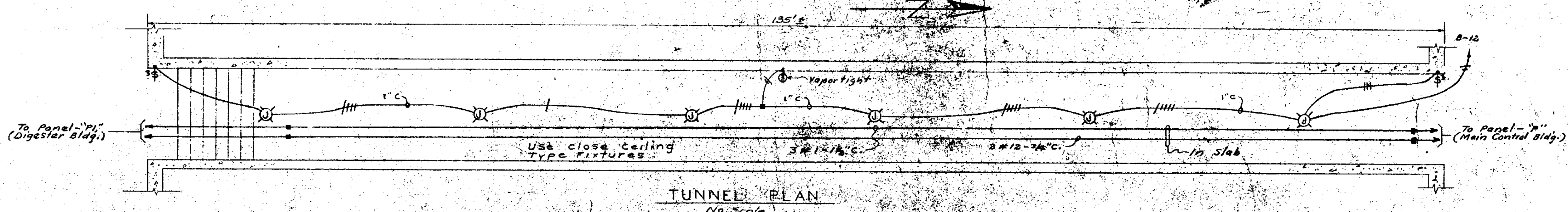




BASEMENT PLAN



FIRST FLOOR PLAN



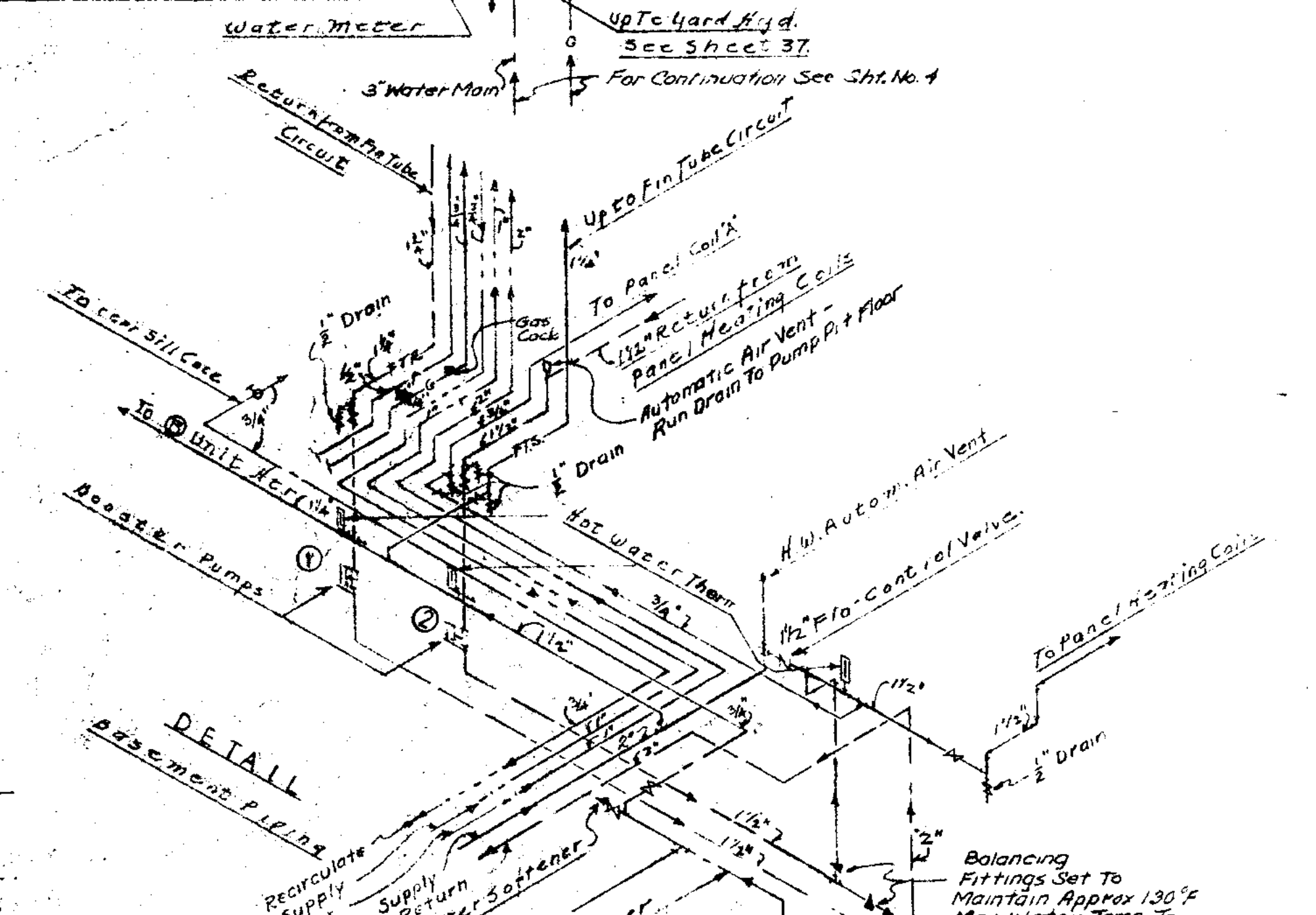
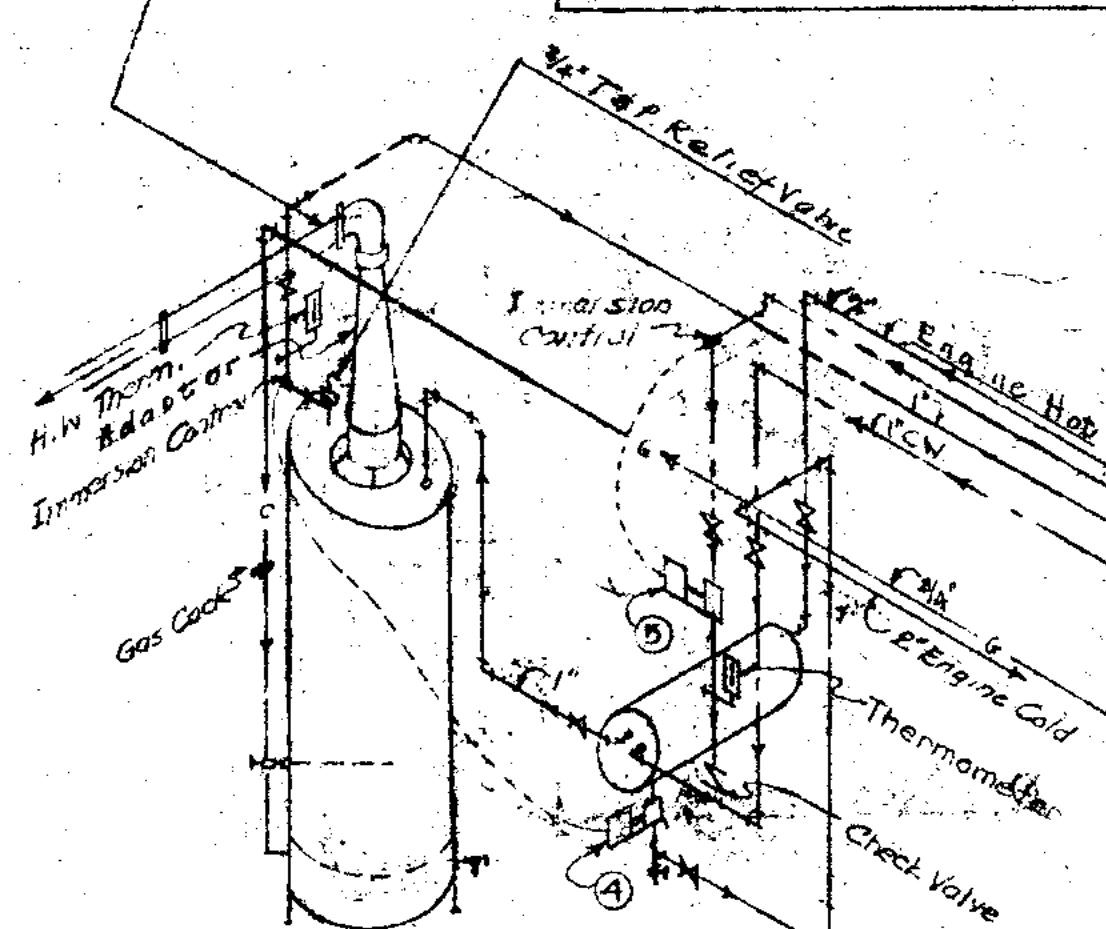
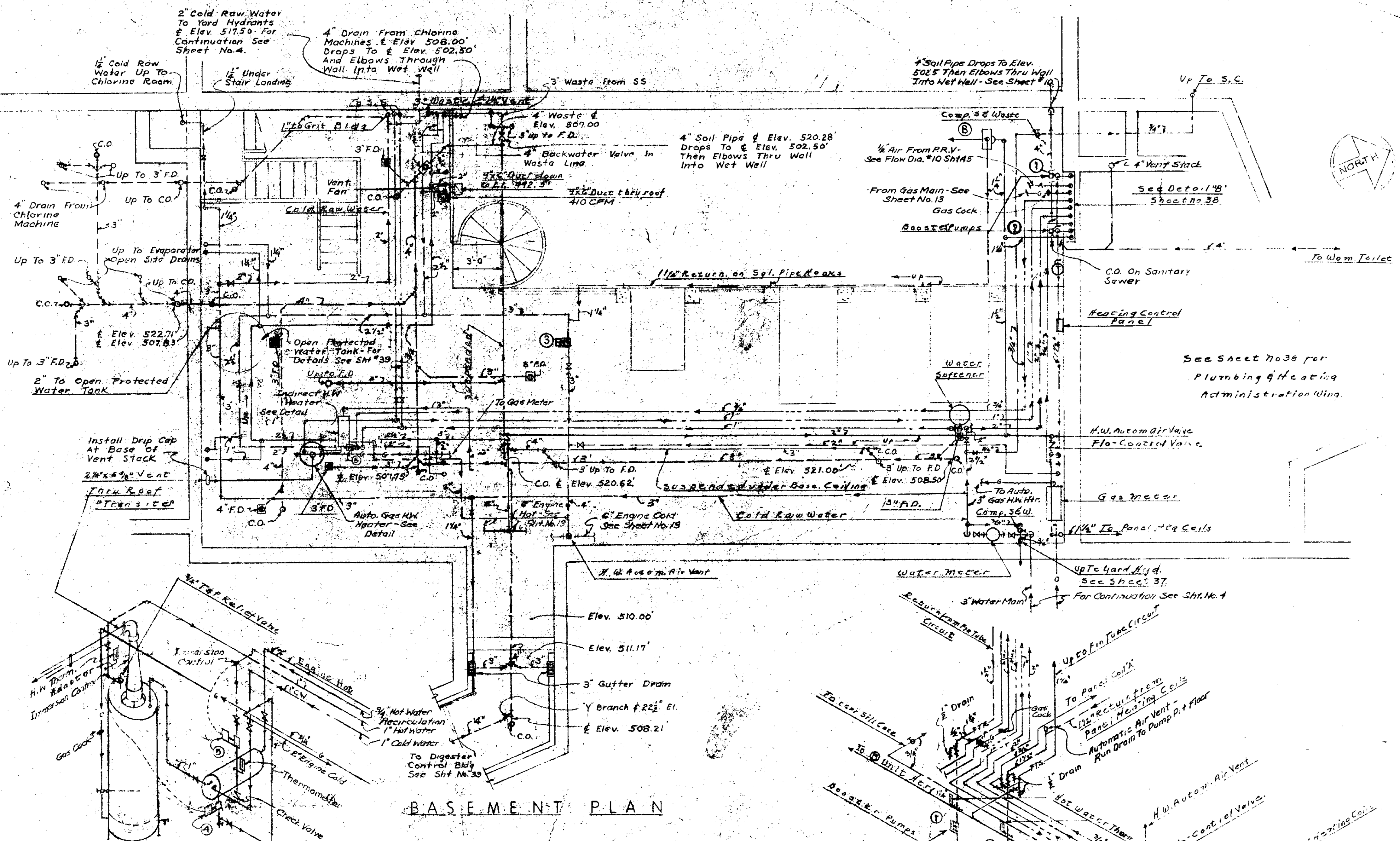
TUNNEL PLAN

<b>JOLIET ILLINOIS</b> <b>SEWAGE TREATMENT PLANT</b> DIGESTER CONTROL BUILDING & TUNNEL - ELECTRICAL		
DRAWN BY Z.R.M. DATE JAN. 1951 CHECKED BY H.S.L. APPROVED BY E.P.S.	<b>CONSOER, TOWNSEND          &amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.	SCALE 1/4" = 1'-0" REVISED APRIL 1954 SHEET NO. 35 OF 75 SHEETS



**PIPING LEGEND**

- PLUMBING**
- Underground Sewer
  - - - Suspended Soil or Waste Piping
  - - - Vent Piping
  - - - Cold Water Piping
  - - - Hot " "
  - - - " " Recirc. Piping
  - - - Compressed Air " "
  - - - Gas Piping
  - H.B. - S.C. Hose Bibb or Sill Cock
  - F.D. Ⓜ Floor Drain
  - ⊕ Drain Cock
- HEATING**
- Hot Water supply
  - - - " " Return
  - "A" Panel Heating Coils
  - Ⓐ Unit Heaters
  - Ⓣ Thermostat
  - ⊕ Gate Valve
  - Ⓜ Booster Pump
  - Pitch Piping as noted
  - Arrows indicate direction of flow



**SCHEDULE OF BOOSTER PUMPS**

Symbol	No. Req'd	Size	G.P.M.	Motor H.P.	R.P.M.	Against ft. head
①	1	"75"	2	1/12	1750	5.0
②	1	"125"	8	1/12	"	7.1
③	1	"10.3"	65	1/3	"	11.25
④	1	"100"	20	2/12	"	3.0
⑤	1	"75"	2	1/12	"	5.0

**SCHEDULE OF UNIT HEATERS**

Symbol	No. Req'd	Type	mb.h.	G.P.M.	Temp. Dr. (60°-85°)	C.F.M.	Motor H.P.	R.P.M.	Mount. Height
Ⓐ	2	Panel	33.2	6	12.7	736	1/10	1500	9'
Ⓑ	1	"	68.5	8	17.1	1648	1/8	1140	24'
Ⓒ	2	"	104.0	16	12.1	2870	1/6	1140	7'
Ⓓ	2	"	20.8	4	11.5	511	1/8	1500	8'
Ⓔ	2	"	33.2	10	16.1	2100	1/8	1100	8'

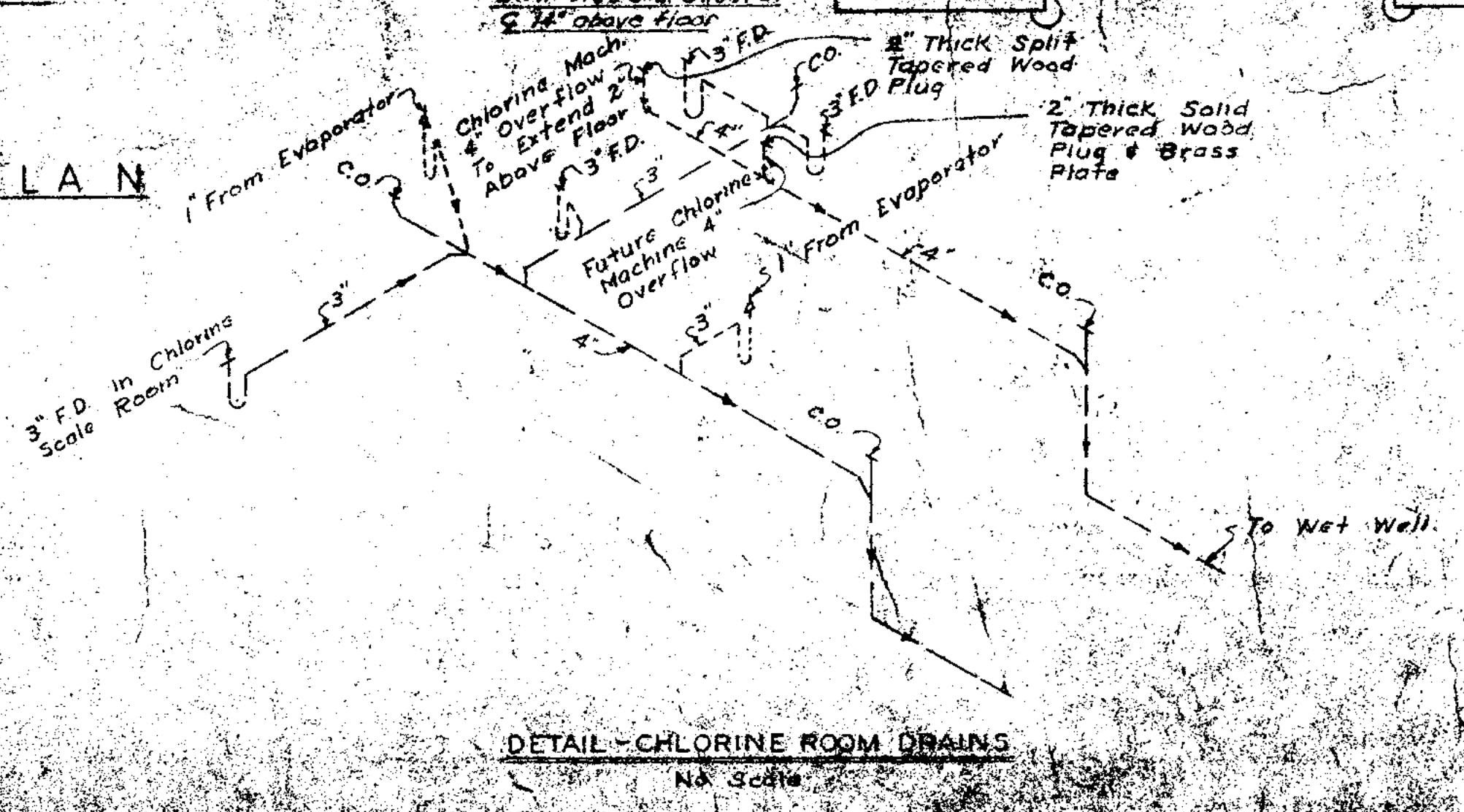
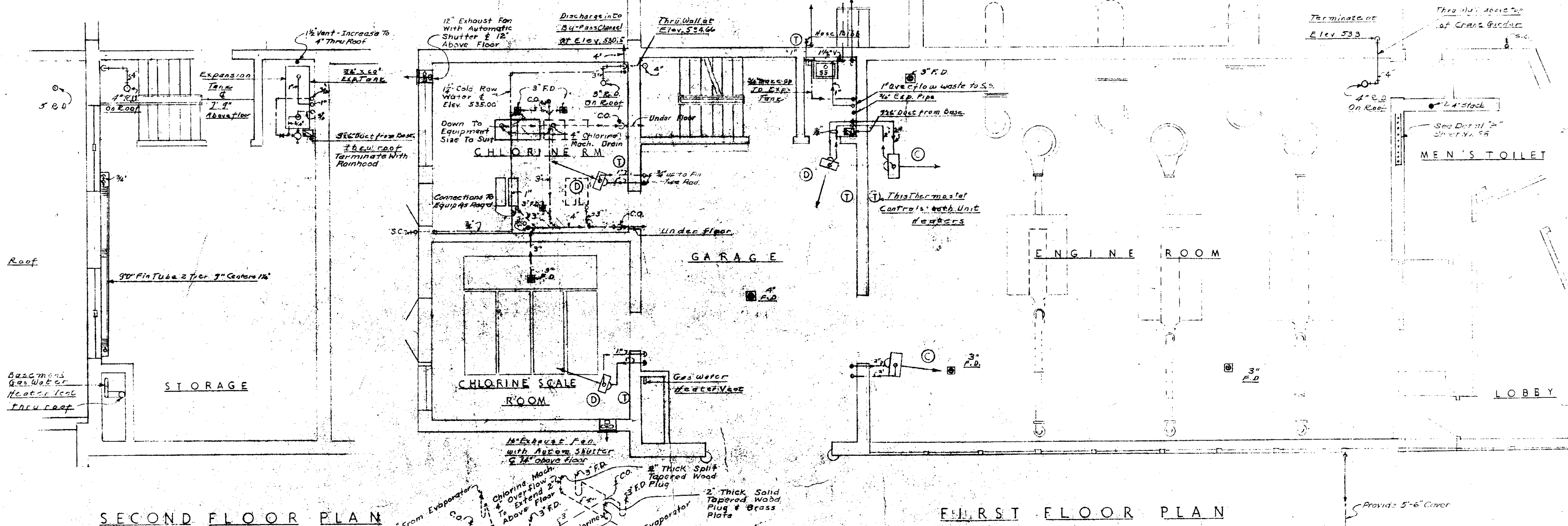
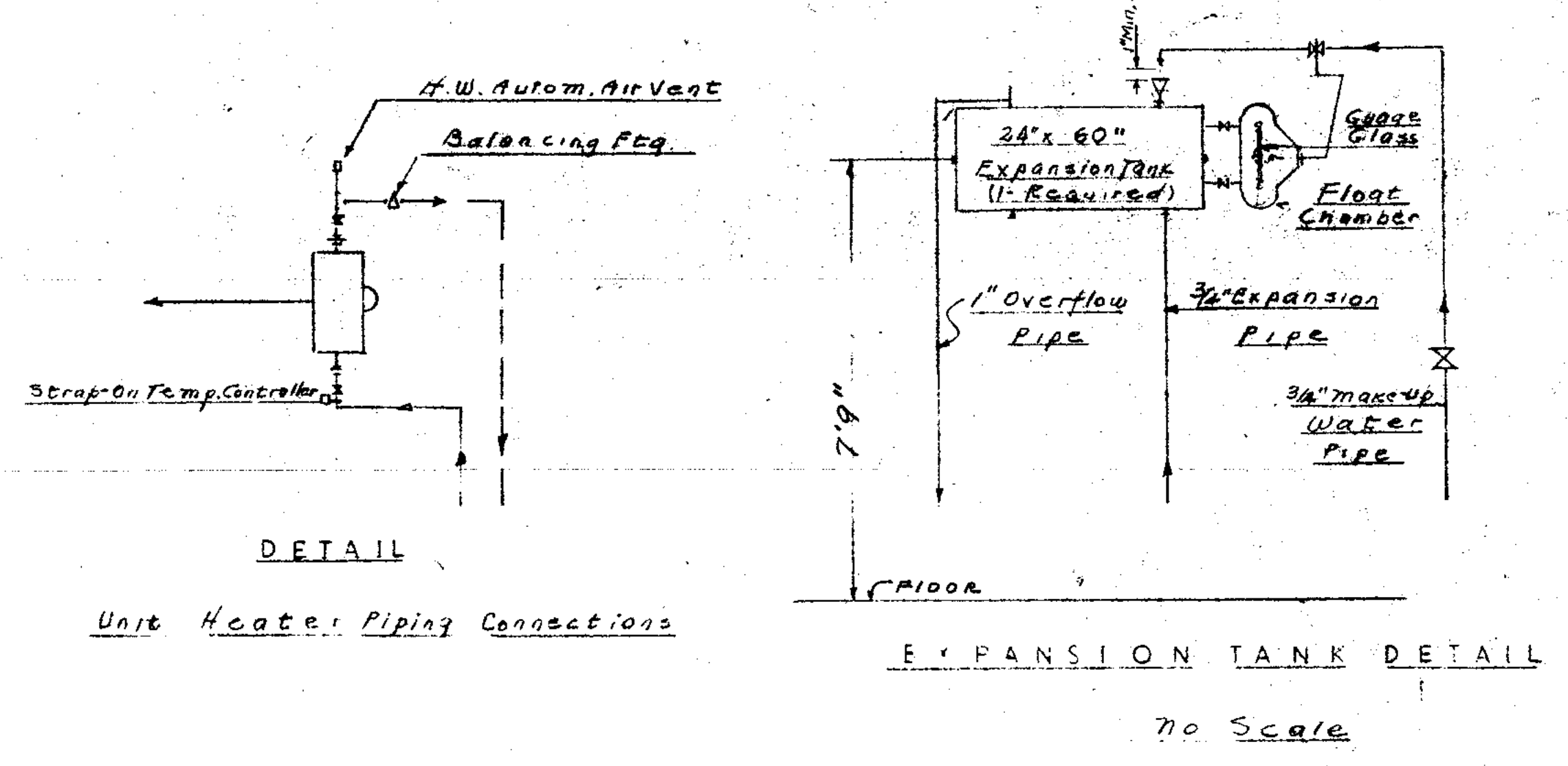
See above for h. capacity & size based upon 100° F. water temp. average.  
 Water temperature of 60° F. max. air.  
 Ⓐ Unit Heater in Digester Control Bldg See Sheet No. 35.

**JOLIET, ILLINOIS  
SEWAGE TREATMENT PLANT**

**MAIN CONTROL BUILDING  
PLUMBING & HEATING**

DRAWN BY: L.M.S. DATE: JAN. 1951	<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.	SCALE: 1/4" = 1'-0" REVISED: APRIL 1954 SHEET NO. 36 OF 45 SHEETS
CHECKED BY: [Signature]	APPROVED BY: R.A.S.	





**JOLIET, ILLINOIS  
SEWAGE TREATMENT PLANT**

**MAIN CONTROL BUILDING  
PLUMBING & HEATING**

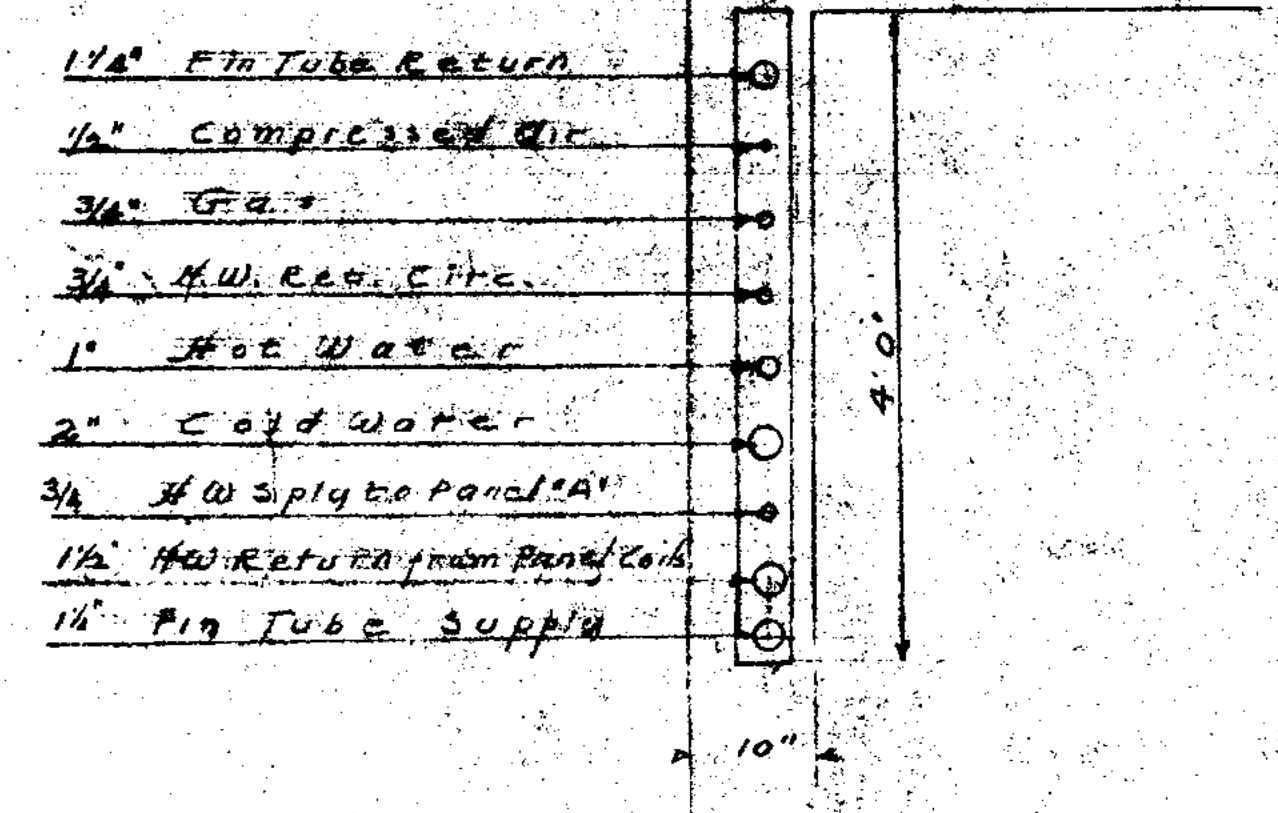
DRAWN BY: L.M.C. DATE: JAN 1951 CHECKED BY: APPROVED BY: R.A.S.	<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.	SCALE: 1/4" = 1'-0" REVISED: APRIL 1954 SHEET NO. 37 OF 45 SHEETS
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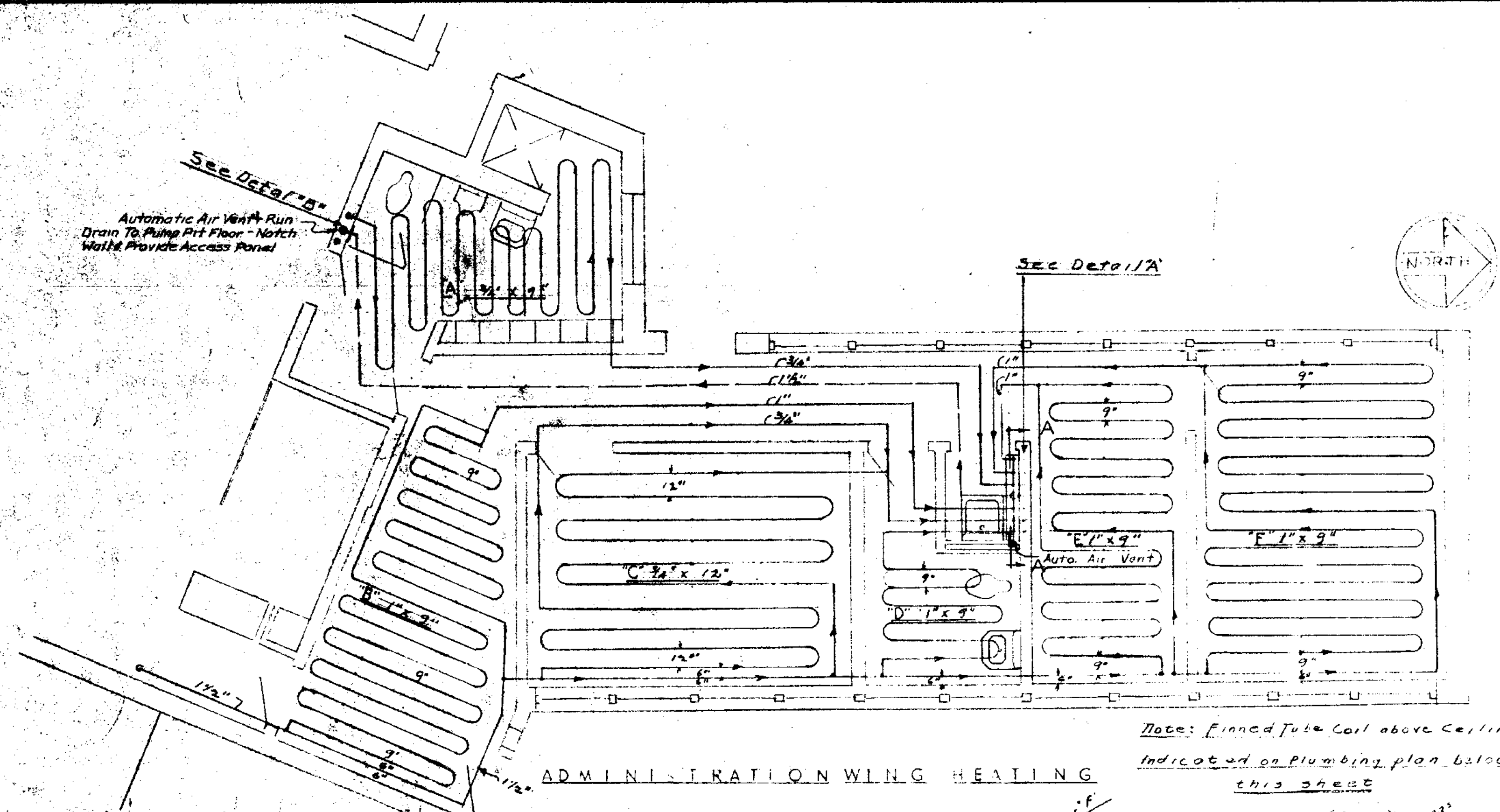
**SCHEDULE OF PANEL HEATING COILS**

Symbol	Pipe Size	Pipe Centers
"A"	3/4"	9"
"B"	1"	9"
"C"	3/4"	12"
"D"	1"	9"
"E"	1"	9"
"F"	1"	9"

Panel Heating Coils shall have  
Balancing fittings & Hot Water Autom.  
Vents - Coils shall be laid "dead level"

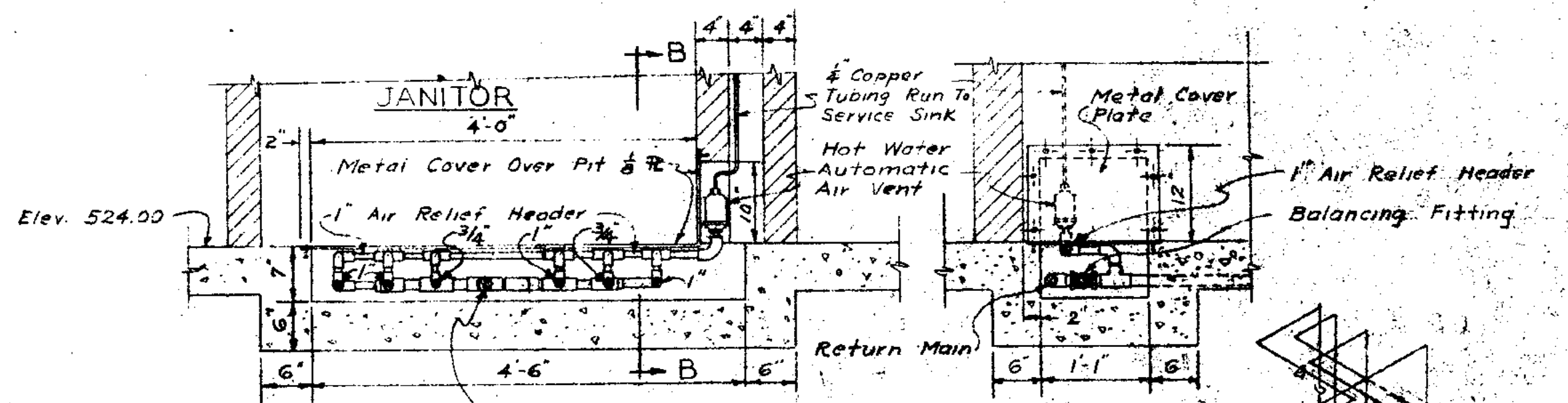


**DETAIL "B"**  
No Scale



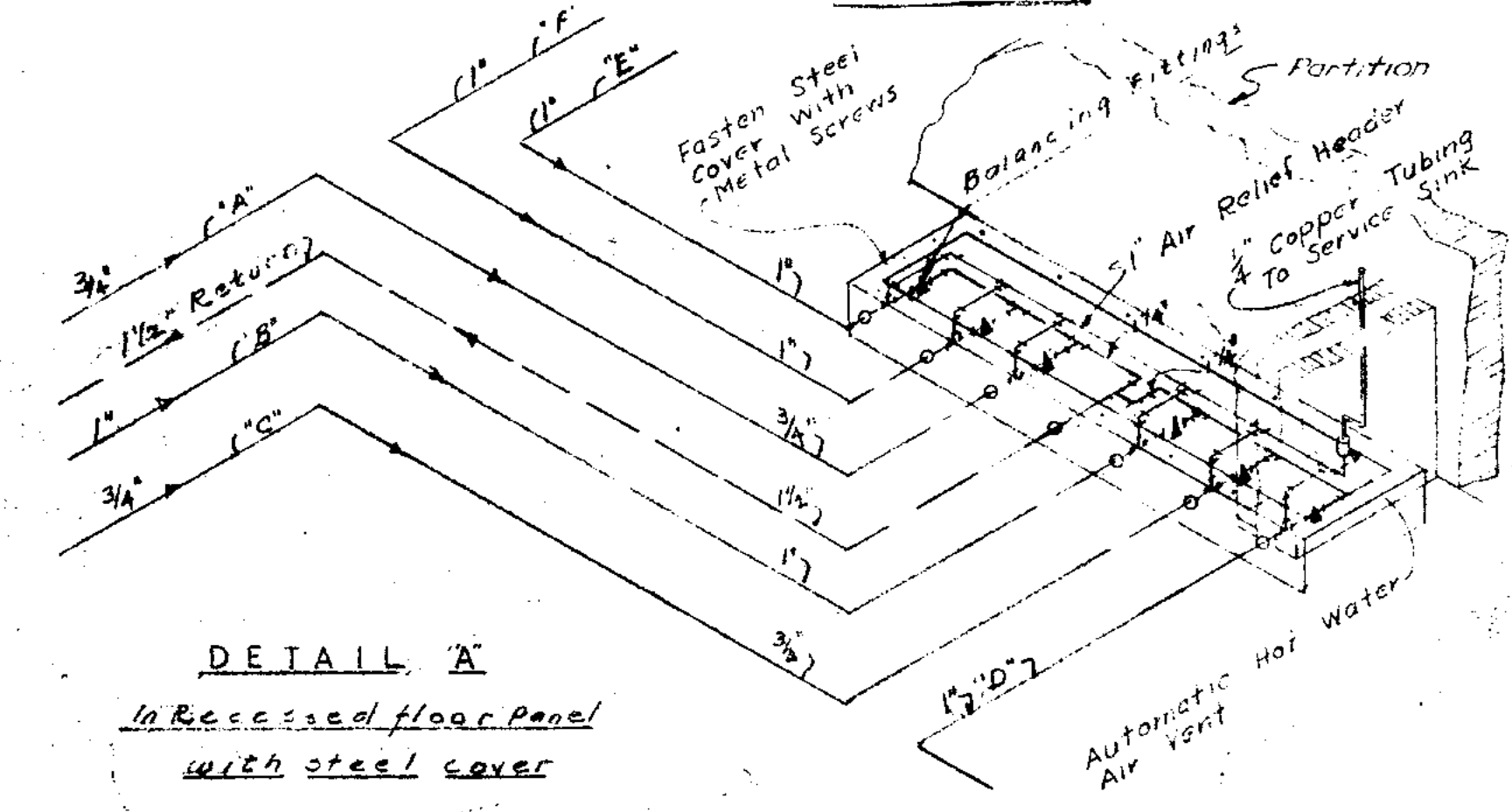
**ADMINISTRATION WING HEATING**

Note: Finned Tube Coil above Ceiling  
Indicated on Plumbing plan below  
this sheet

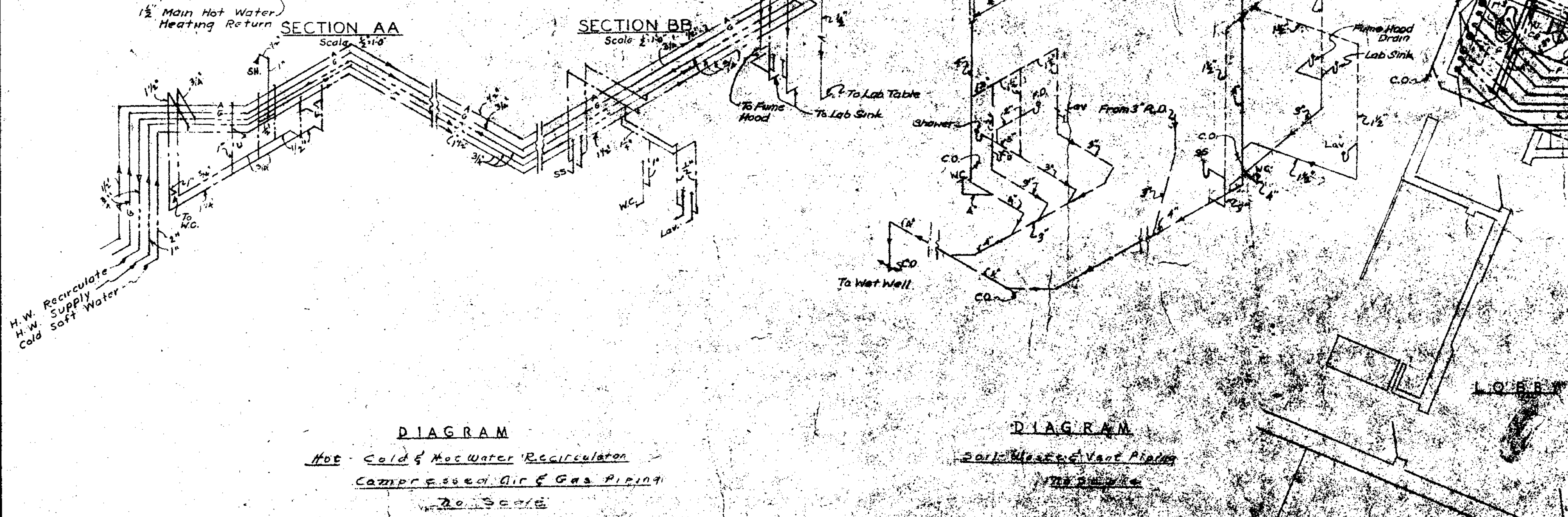


**SECTION AA**  
Scale 1/4" = 1'-0"

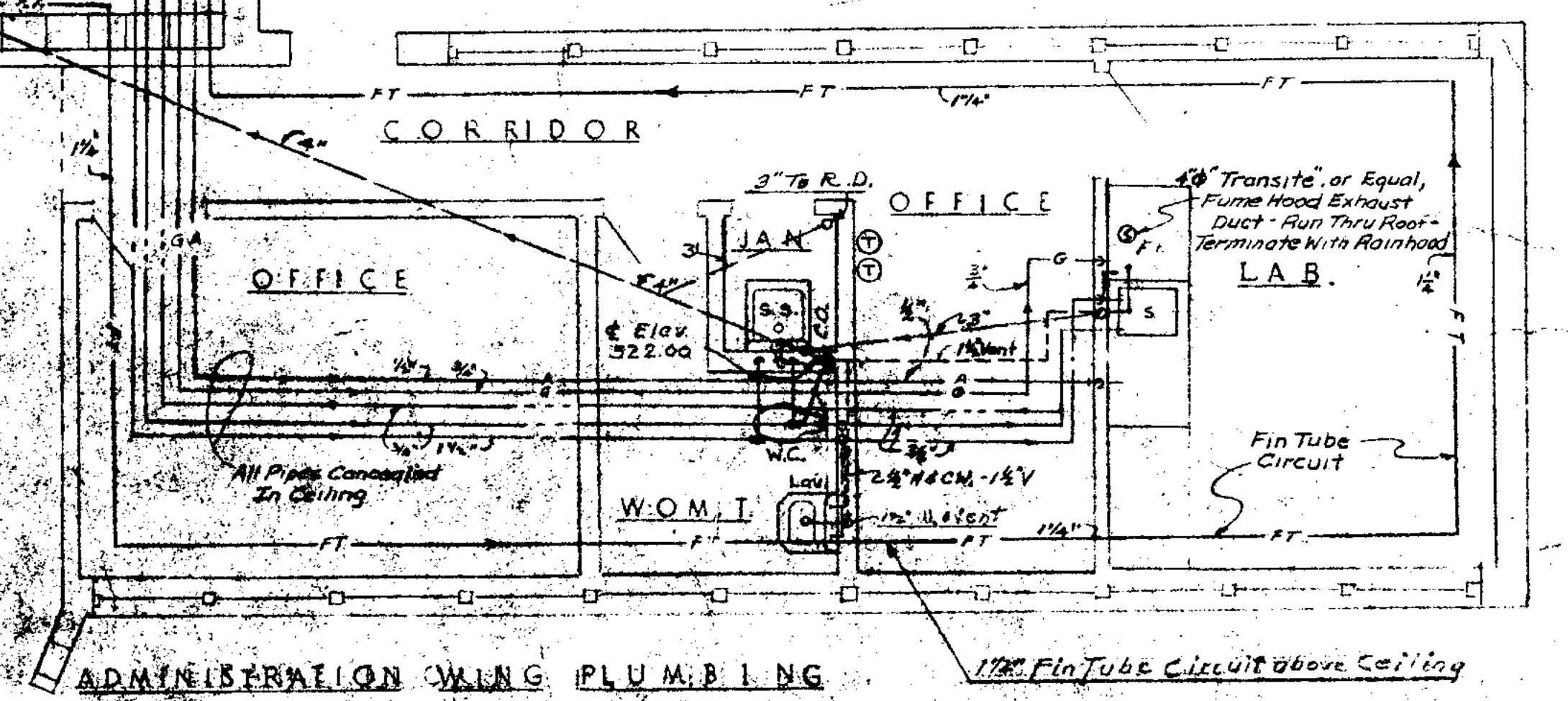
**SECTION BB**  
Scale 1/4" = 1'-0"



**DETAIL "A"**  
In Recessed floor Panel  
with steel cover



**DIAGRAM**  
Hot - Cold & Hot Water Recirculation  
Compressed Air & Gas Piping  
No Scale



**ADMINISTRATION WING PLUMBING**

1 1/2" Fin Tube Circuit above Ceiling

**ADMINISTRATION AREA**

**JOLIET, ILLINOIS  
SEWAGE TREATMENT PLANT**

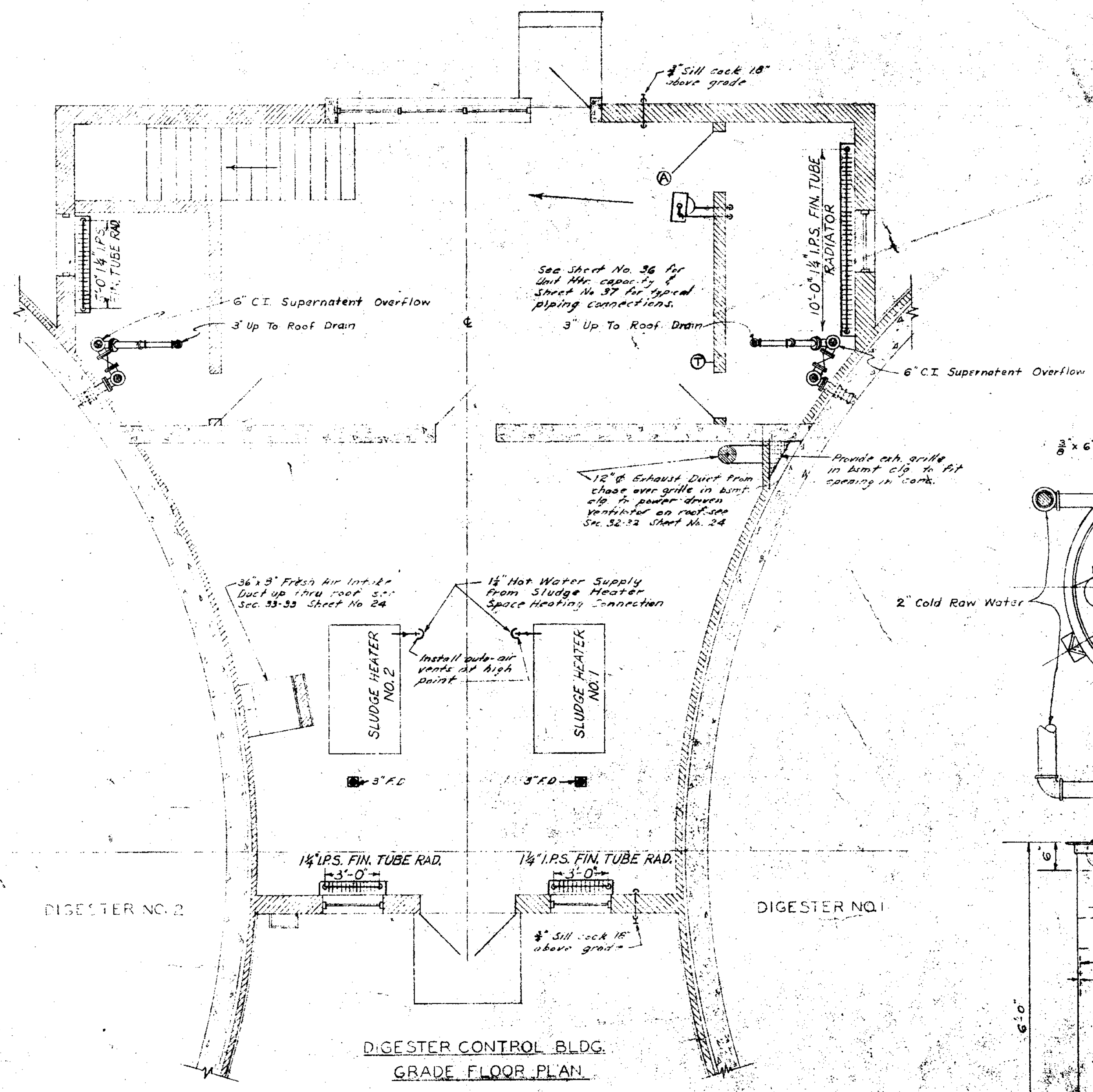
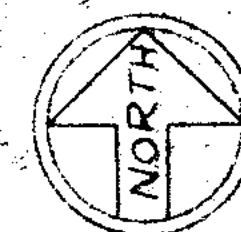
**MAIN CONTROL BUILDING  
PLUMBING & HEATING**

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

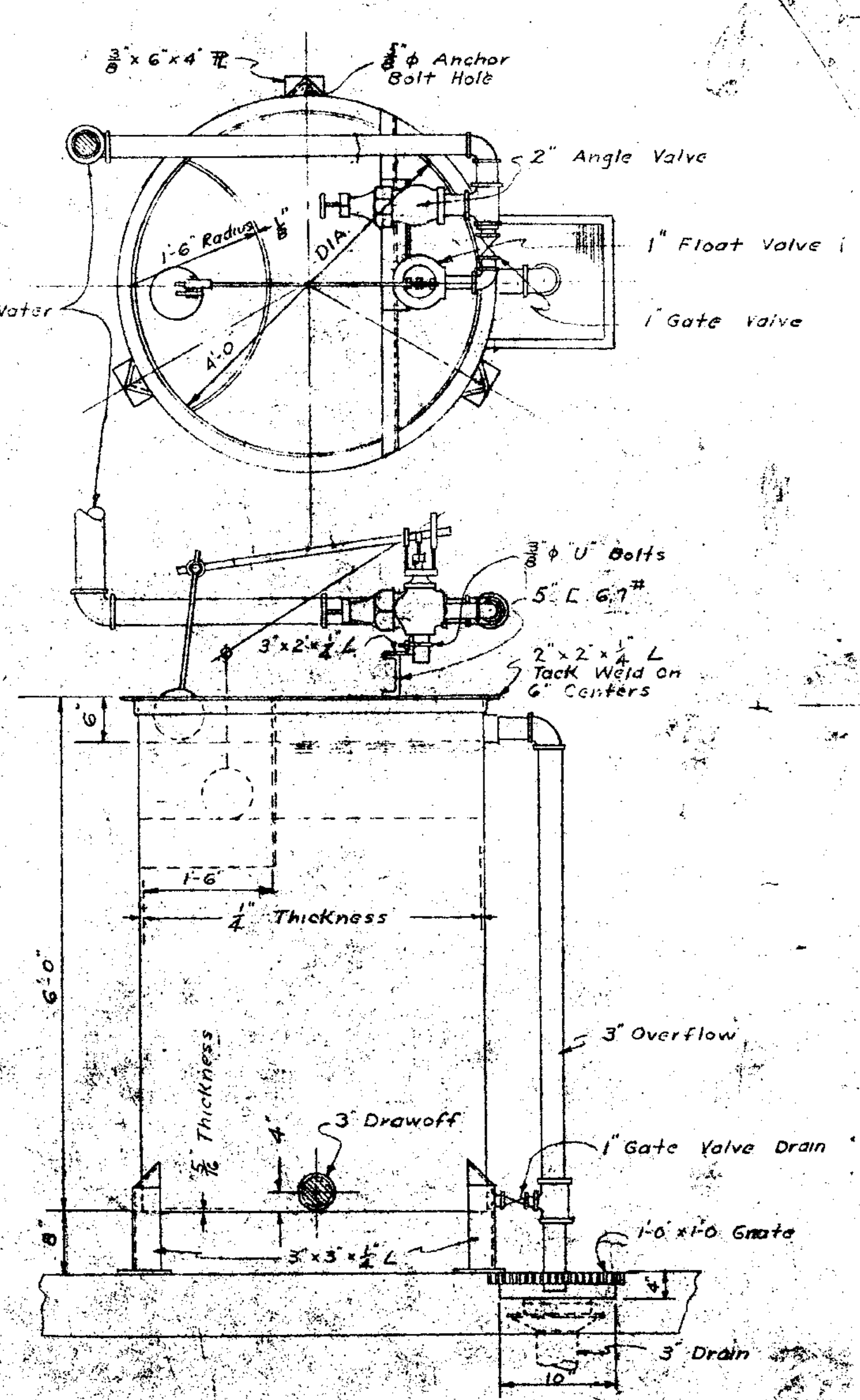
**CONSOER, TOWNSEND  
& ASSOCIATES**  
CONSULTING ENGINEERS  
CHICAGO, ILL.

APRIL 1954  
SHEET NO. 56  
OF 43

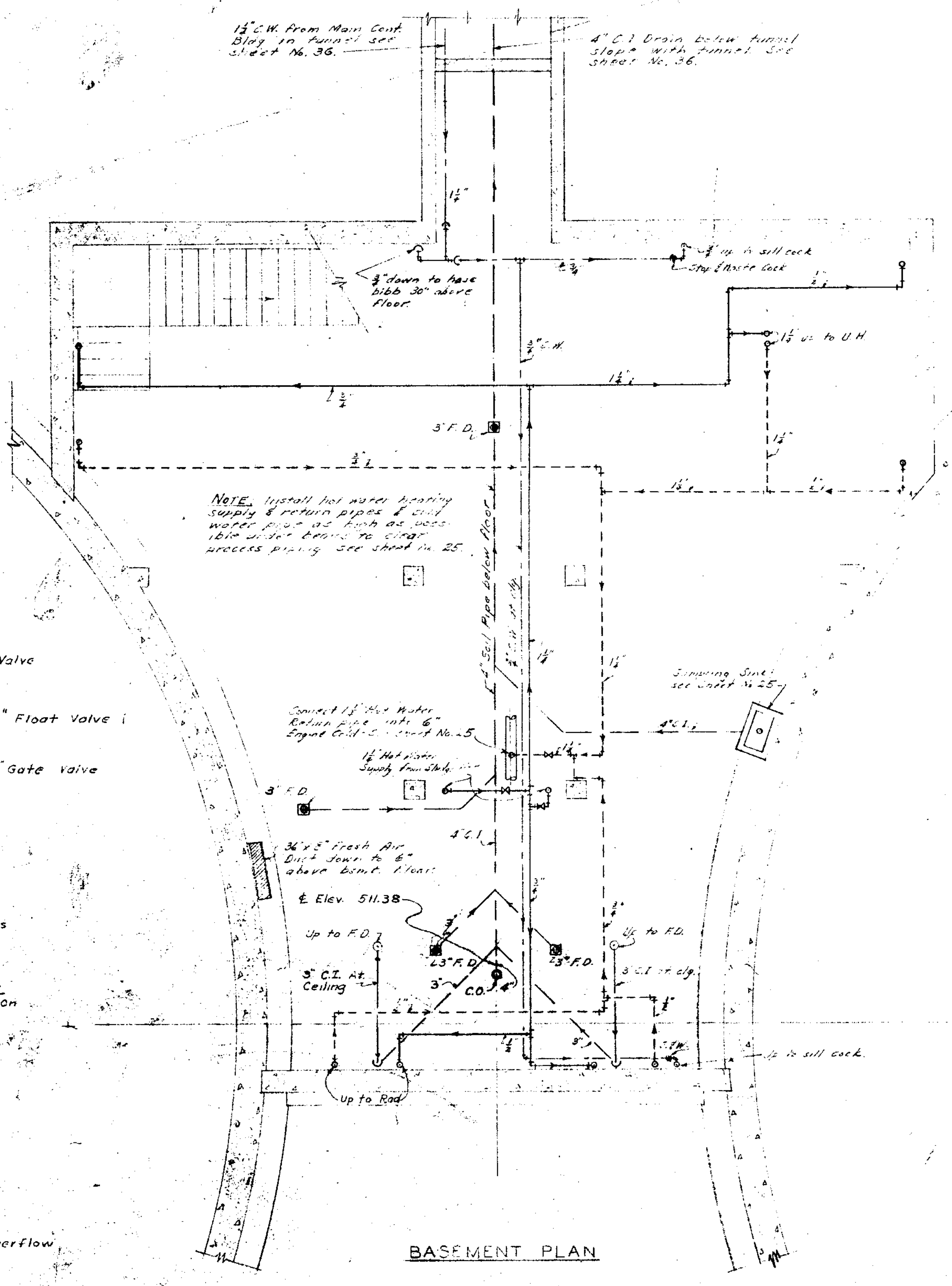




DIGESTER CONTROL BLDG.  
GRADE FLOOR PLAN



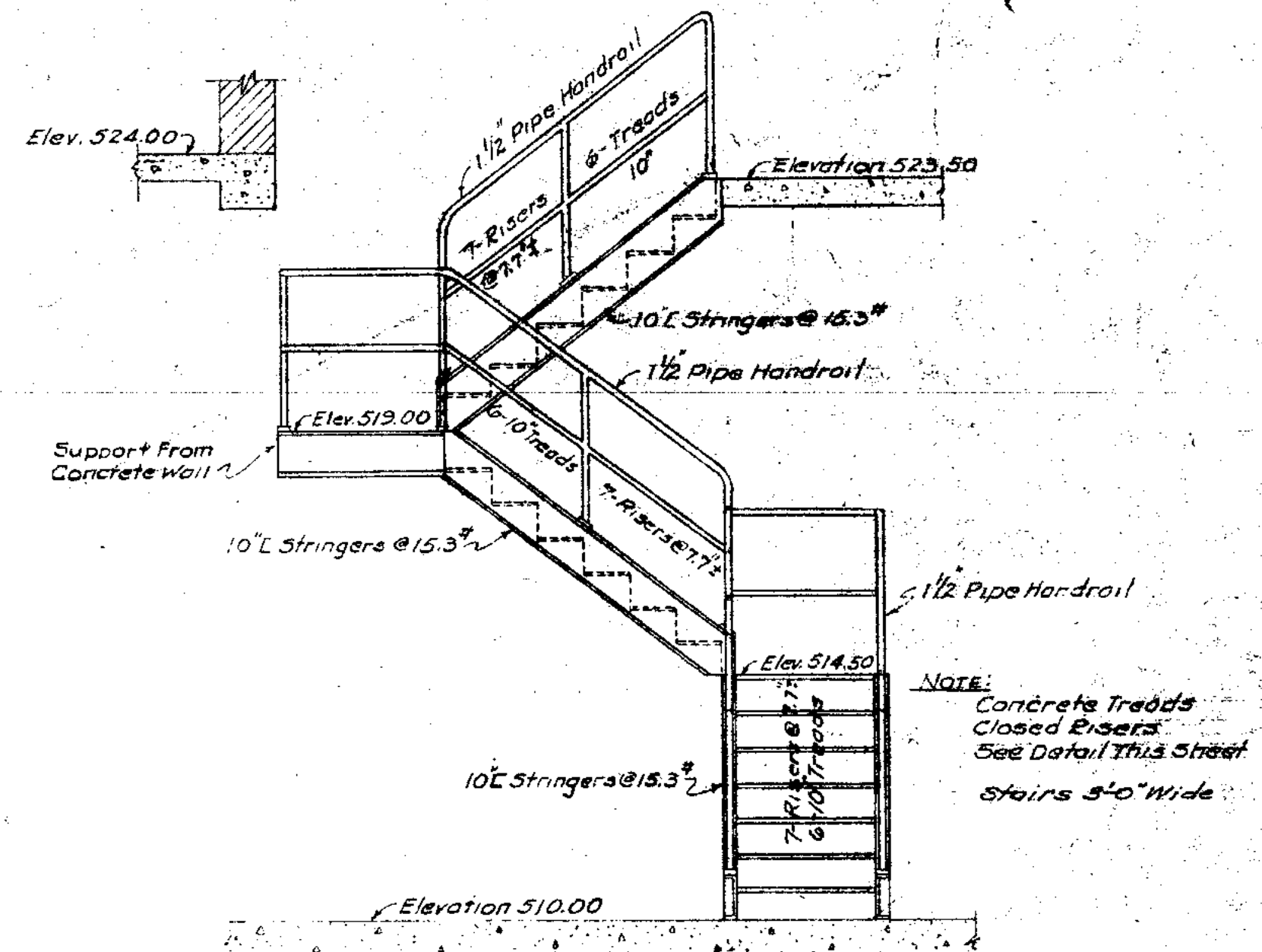
OPEN PROTECTED WATER TANK



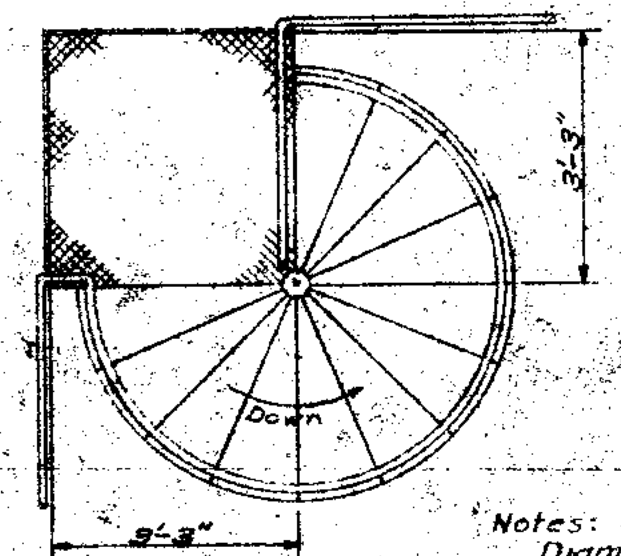
BASEMENT PLAN

<b>JOLIET ILLINOIS</b>		SCALE: 1/4" = 1'-0"
<b>SEWAGE TREATMENT PLANT</b>		
<b>DIGESTER CONTROL BLDG.</b>		
<b>PLUMBING &amp; HEATING</b>		
DRAWN BY: C.H.B. T.M.K. DATE: JAN. 1951	<b>CONSOER, TOWNSEND &amp; ASSOCIATES</b>	REVISIONS:
CHECKED BY: <i>[Signature]</i>		APPROVED BY: A.M.S.
CONSULTING ENGINEERS. CHICAGO, ILL.		

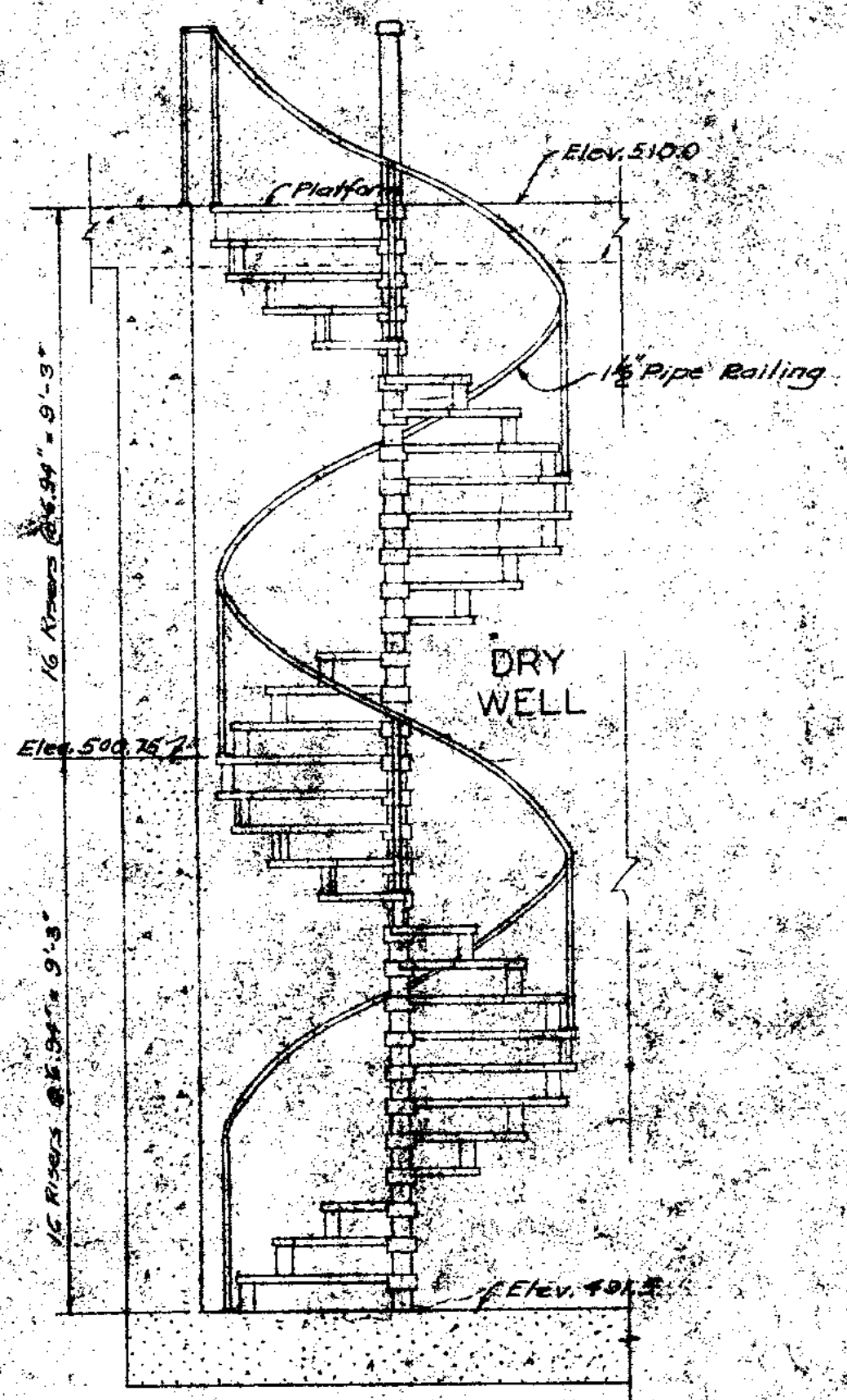




STAIR DETAIL IN GARAGE FROM GRADE FLOOR TO BASEMENT FLOOR  
Scale: 3/8" = 1'-0"

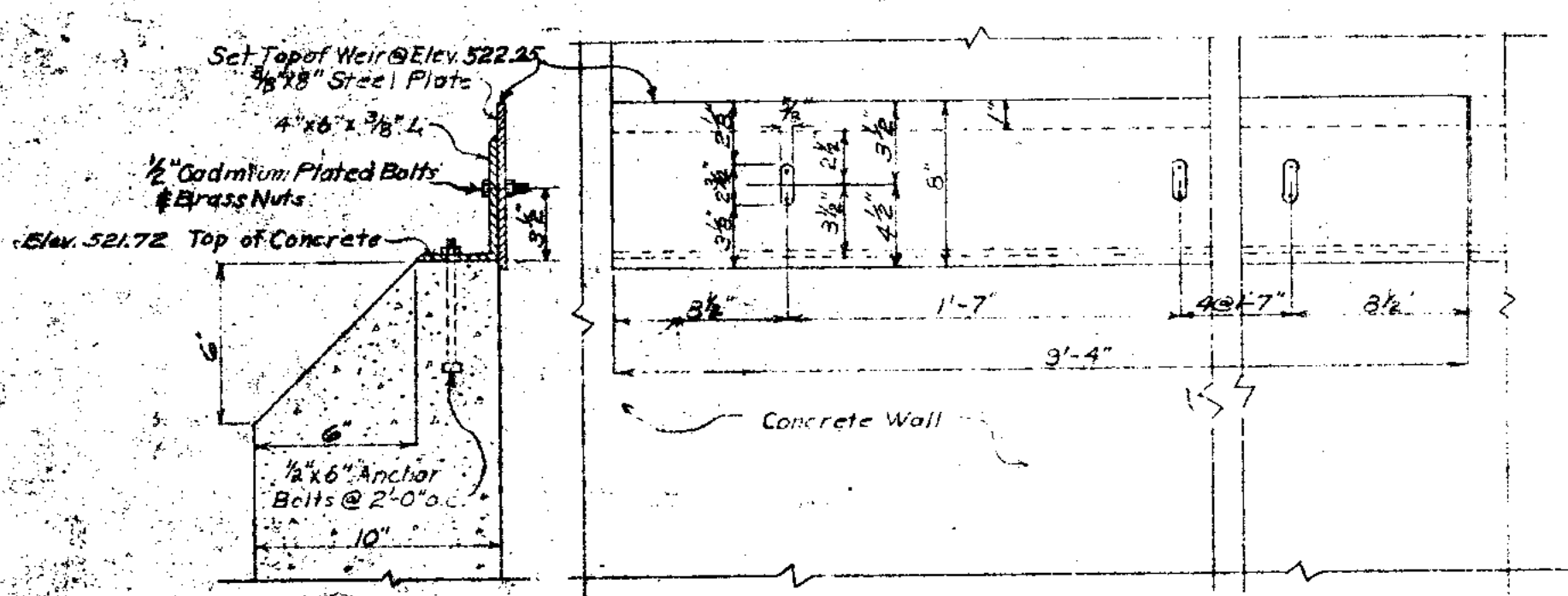


PLAN  
See Sheet No. 13 for location of stairs & landing platform.



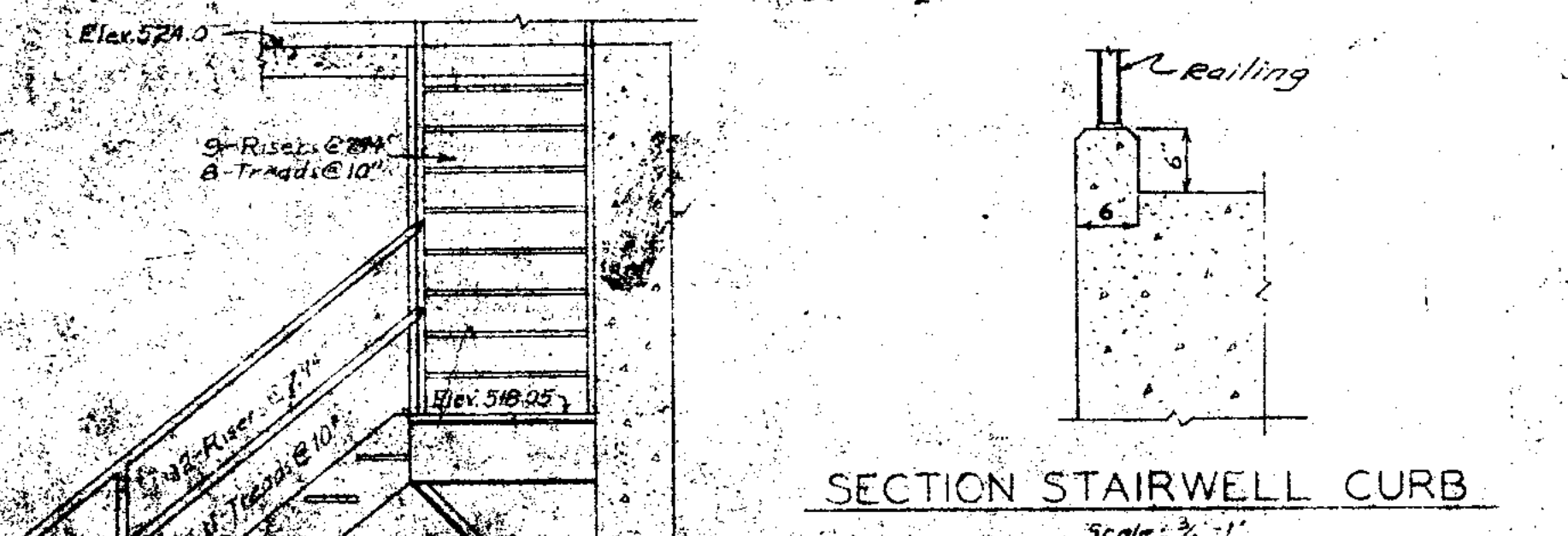
CIRCULAR STAIRS DRY WELL  
Scale: 3/8" = 1'-0"

TYPICAL DETAILS - PIPE HANDRAILING CONNECTIONS TO SIDE OF CONCRETE WALK OR CHANNELS

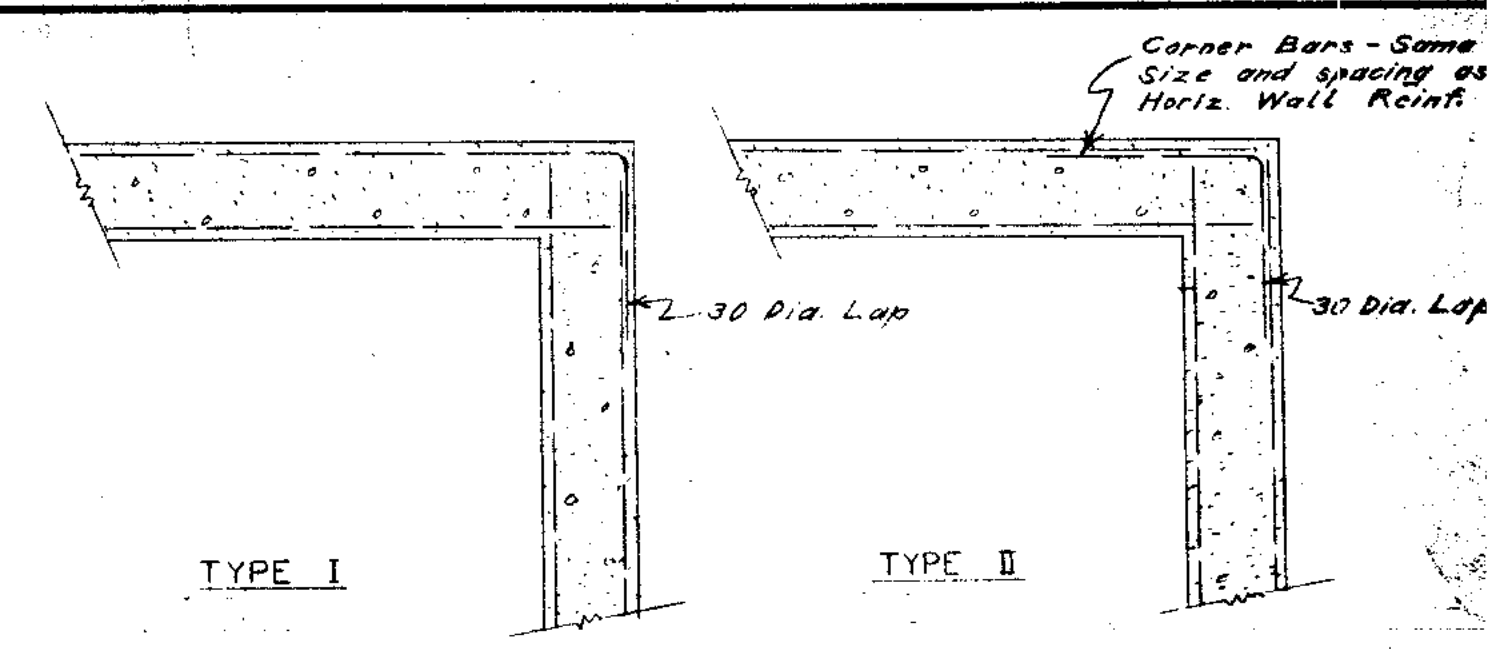


SECTION ELEVATION

DETAILS OF CHLORINATION TANK EFFLUENT WEIR  
Scale: 1/2" = 1'

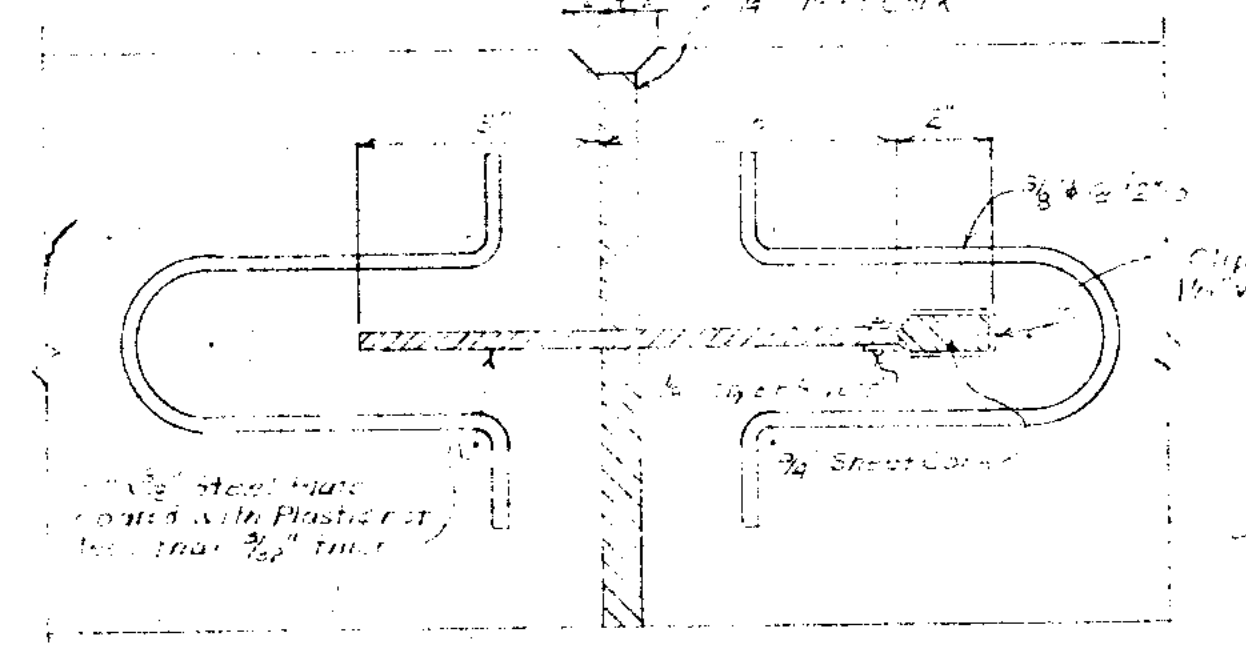


SECTION STAIRWELL CURB  
Scale: 3/8" = 1'



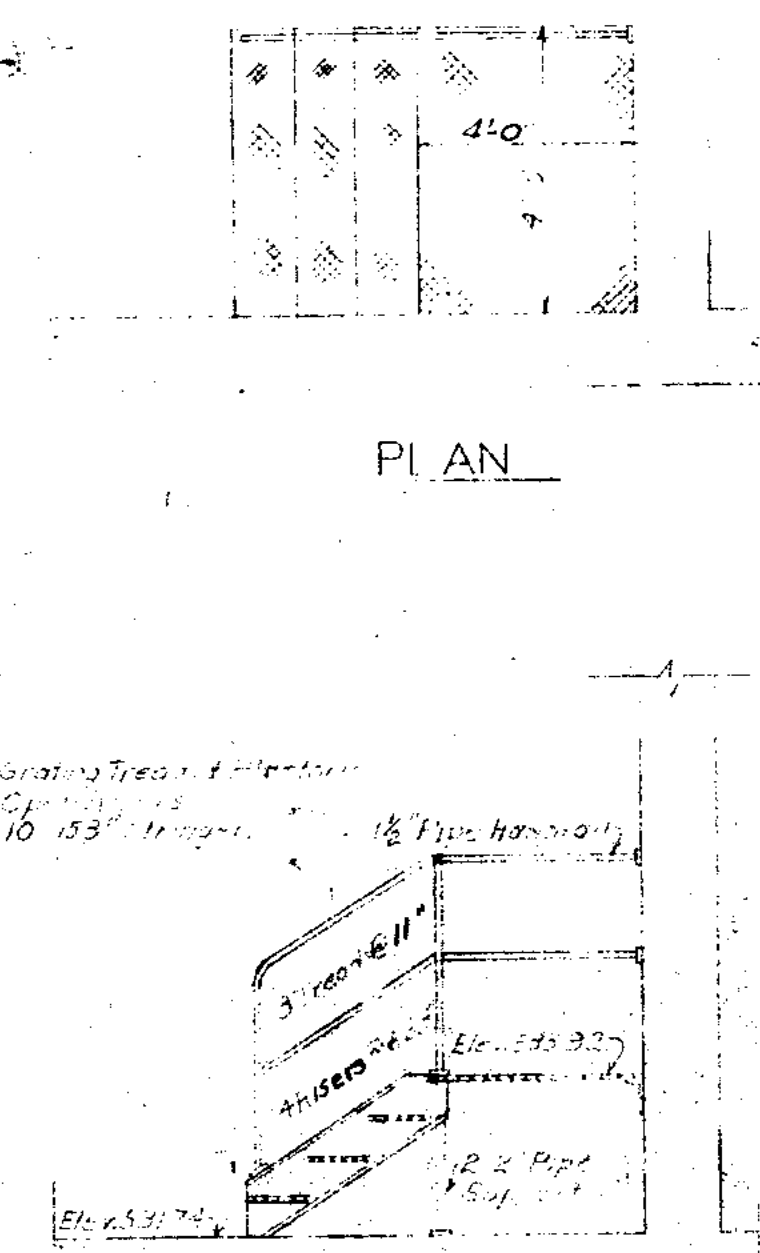
TYPICAL CORNER DETAILS HORIZONTAL REINFORCING

Note: Contractor to use either Type I or Type II for all horiz. reinforcing of corners unless otherwise noted.

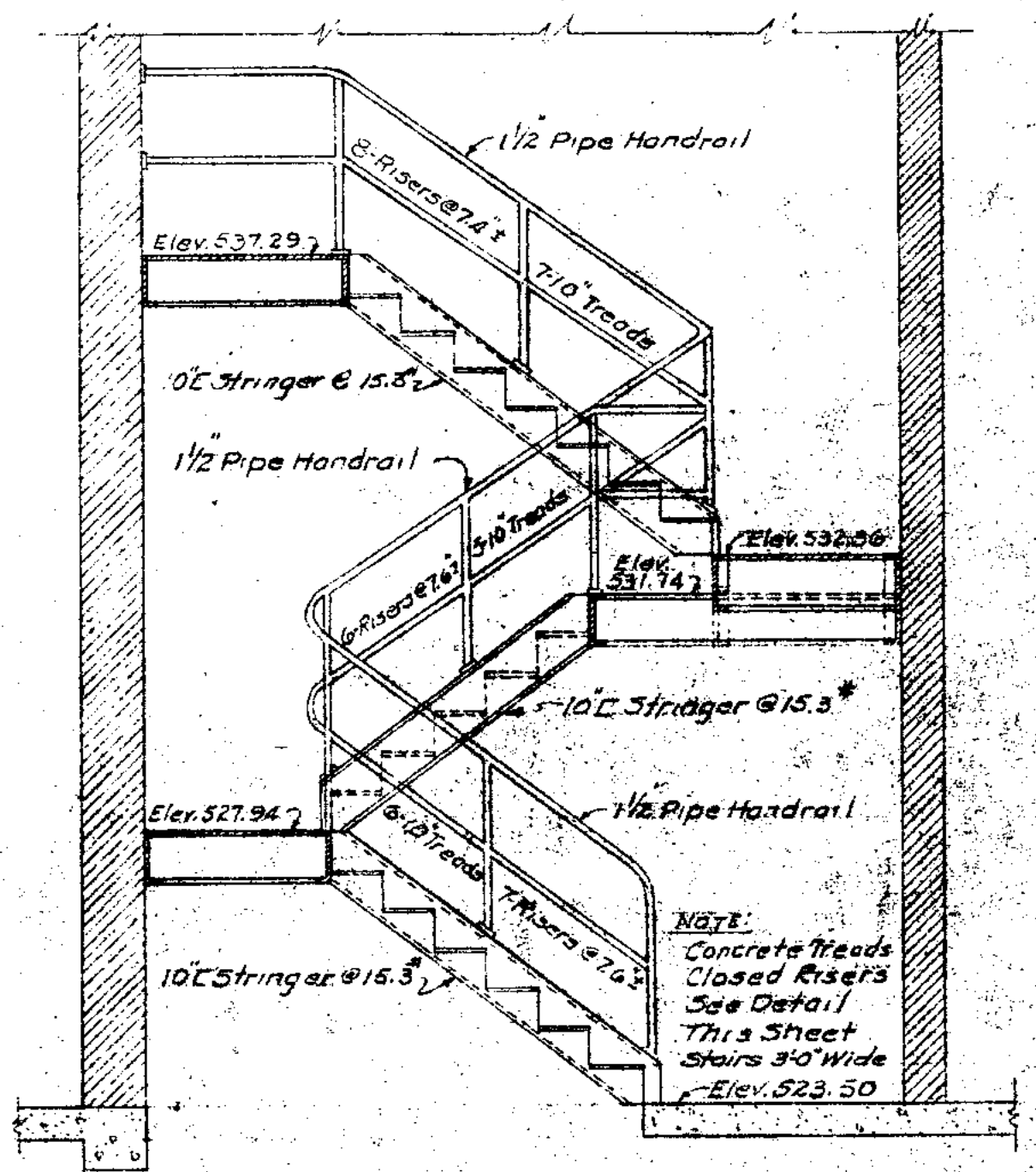


STANDARD EXPANSION & CONTRACTION JOINT

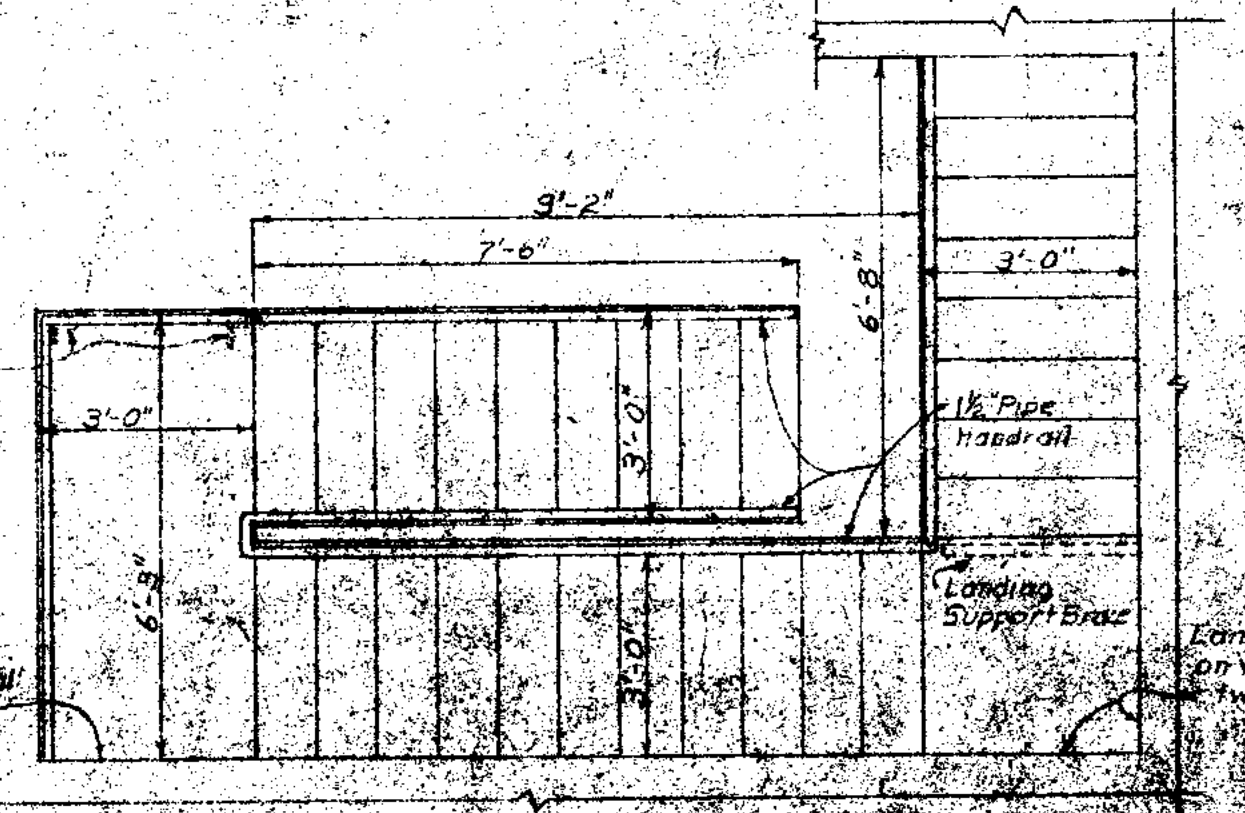
Joint: Wash with oil, and packed with cotton. For use in concrete walls, use 1/2" steel plate with plastic insert. For use in concrete walls, use 1/2" steel plate with plastic insert. For use in concrete walls, use 1/2" steel plate with plastic insert.



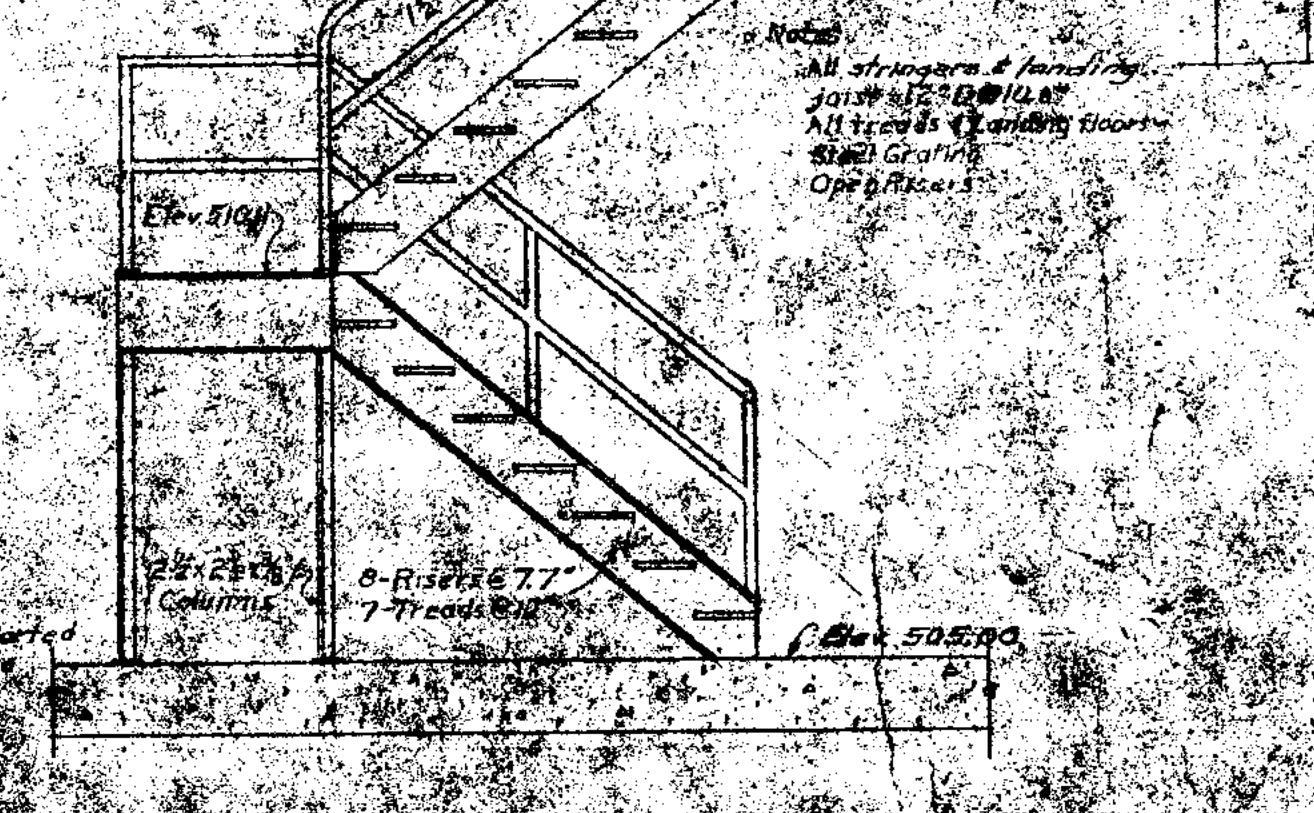
STAIR DETAILS GRIT CHAMBER BLDG.  
Scale: 3/8" = 1'-0"



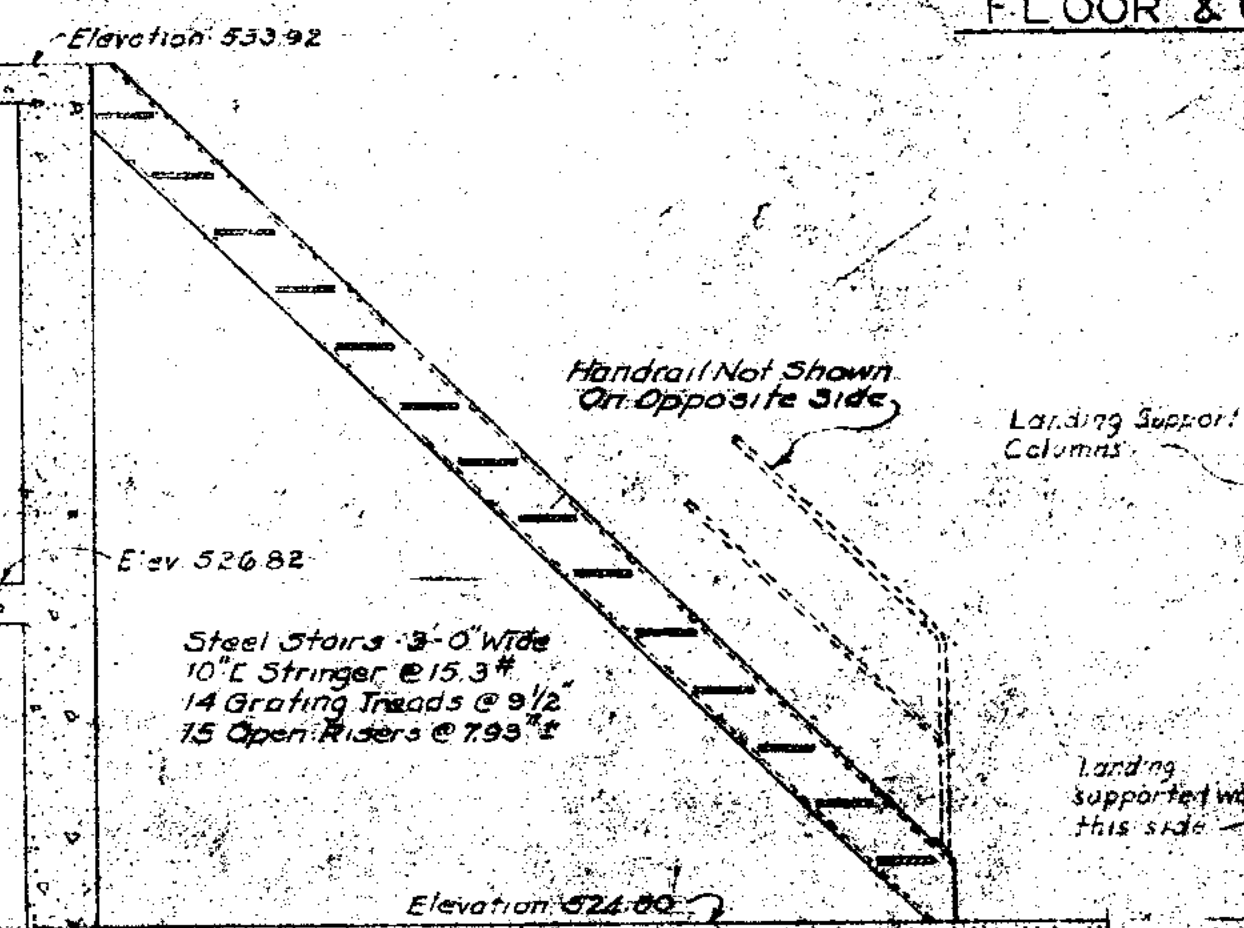
STAIR DETAIL IN GARAGE FROM GRADE FLOOR TO GRIT BUILDING FLOOR & UP TO STORAGE FLOOR  
Scale: 3/8" = 1'-0"



PLAN SCREEN CHAMBER STAIRS



DETAIL OF STEEL STAIRS CONCRETE FILLED TREADS



STAIR DETAIL FROM RAW SEWAGE CONDUIT TO SCREEN CHAMBER FLOOR  
Scale: 3/8" = 1'-0"

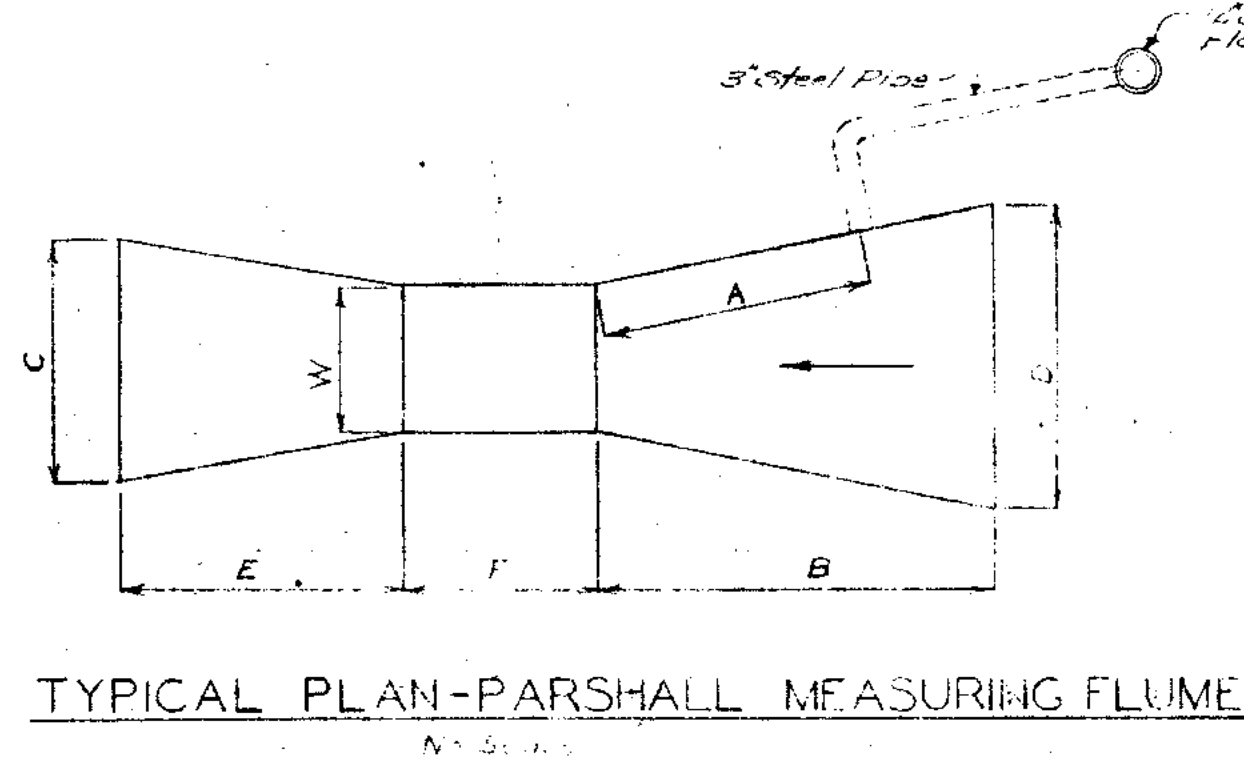
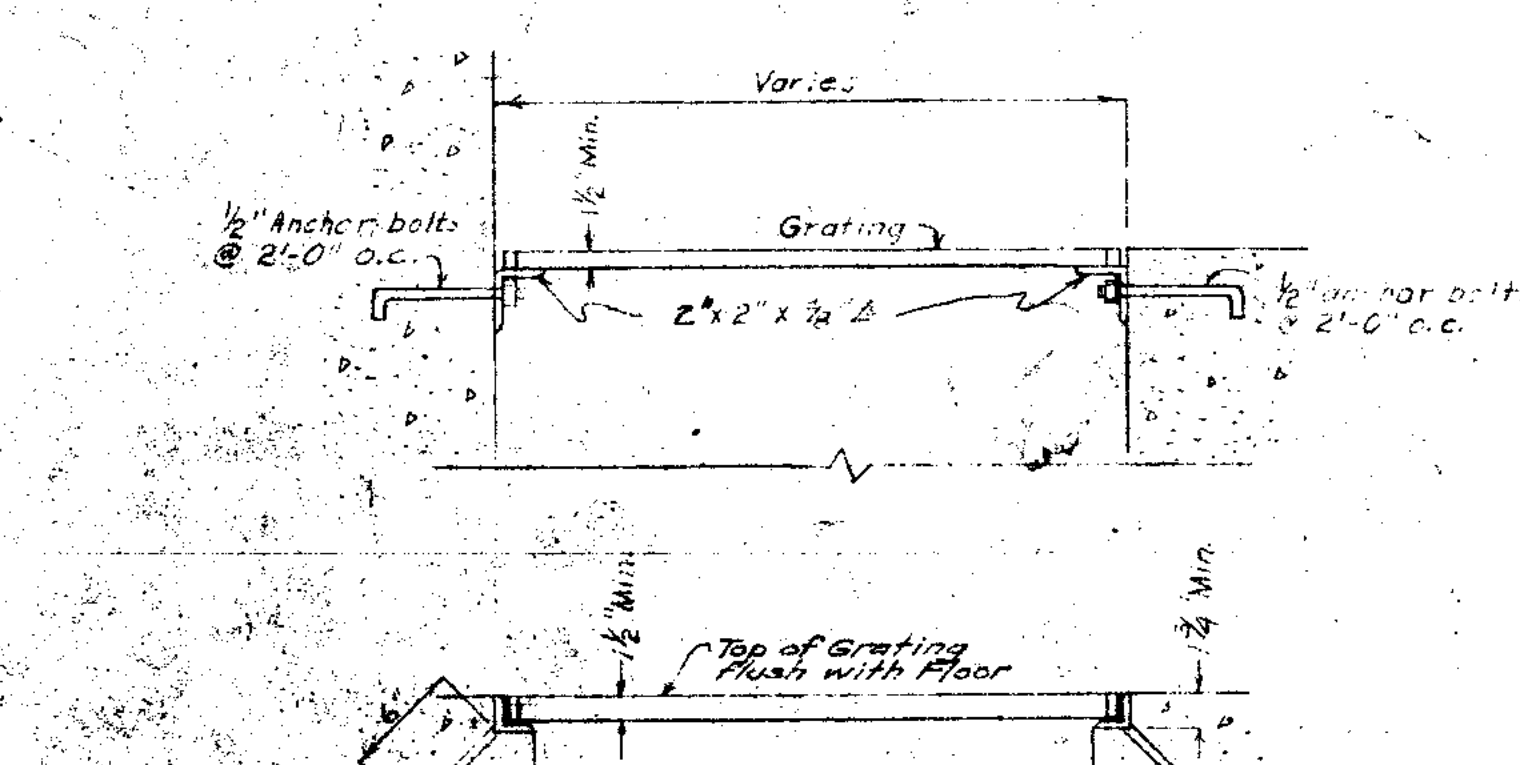
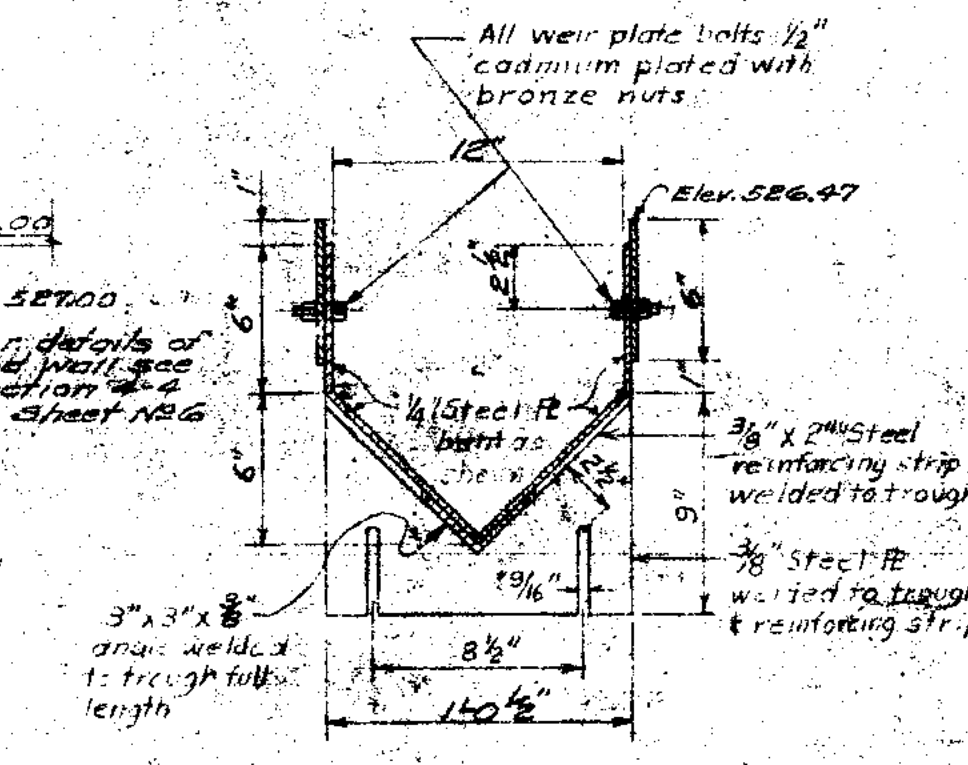
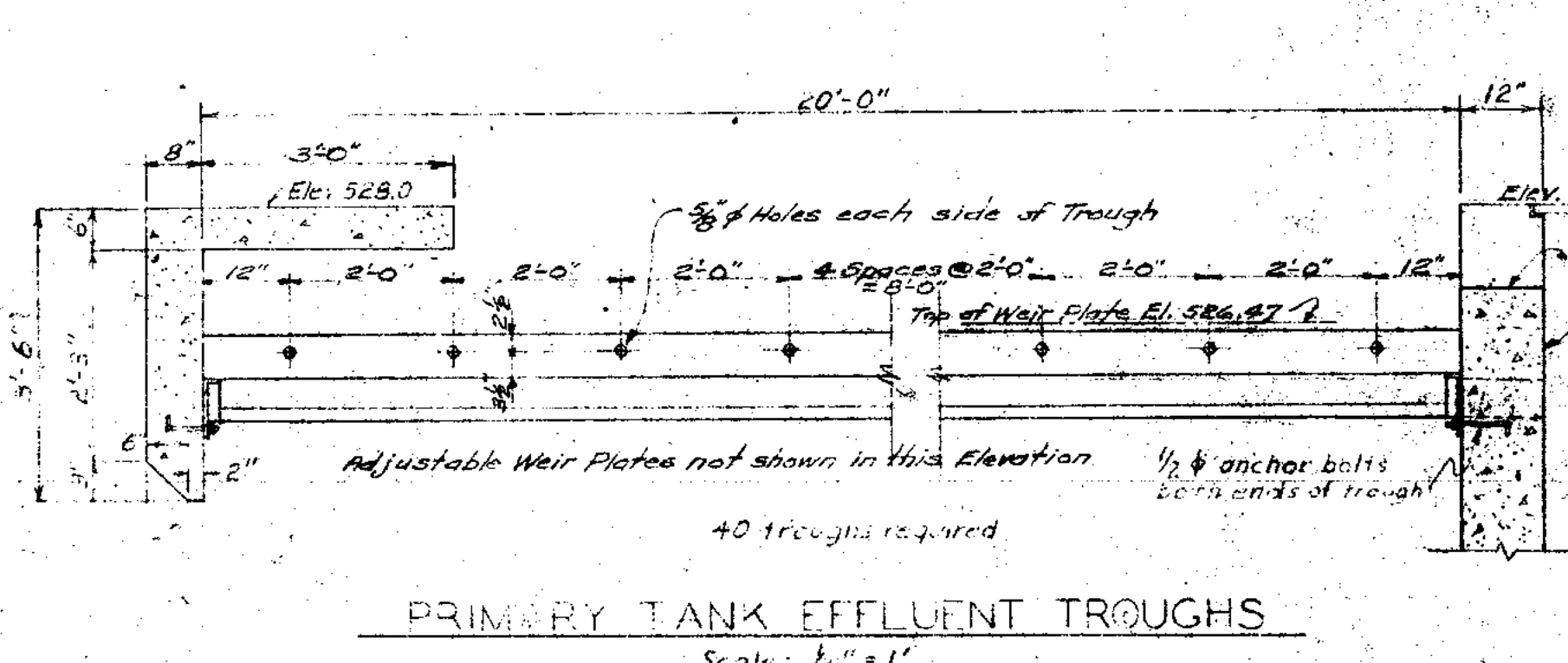
JOLIET ILLINOIS SEWAGE TREATMENT PLANT  
MISCELLANEOUS METALWORK & CONSTRUCTION DETAILS

DRAWN BY: V.B.S. & H.F.K.  
DATE: JAN. 1951  
CHECKED BY: L.F.R.  
APPROVED BY: R.A.H.

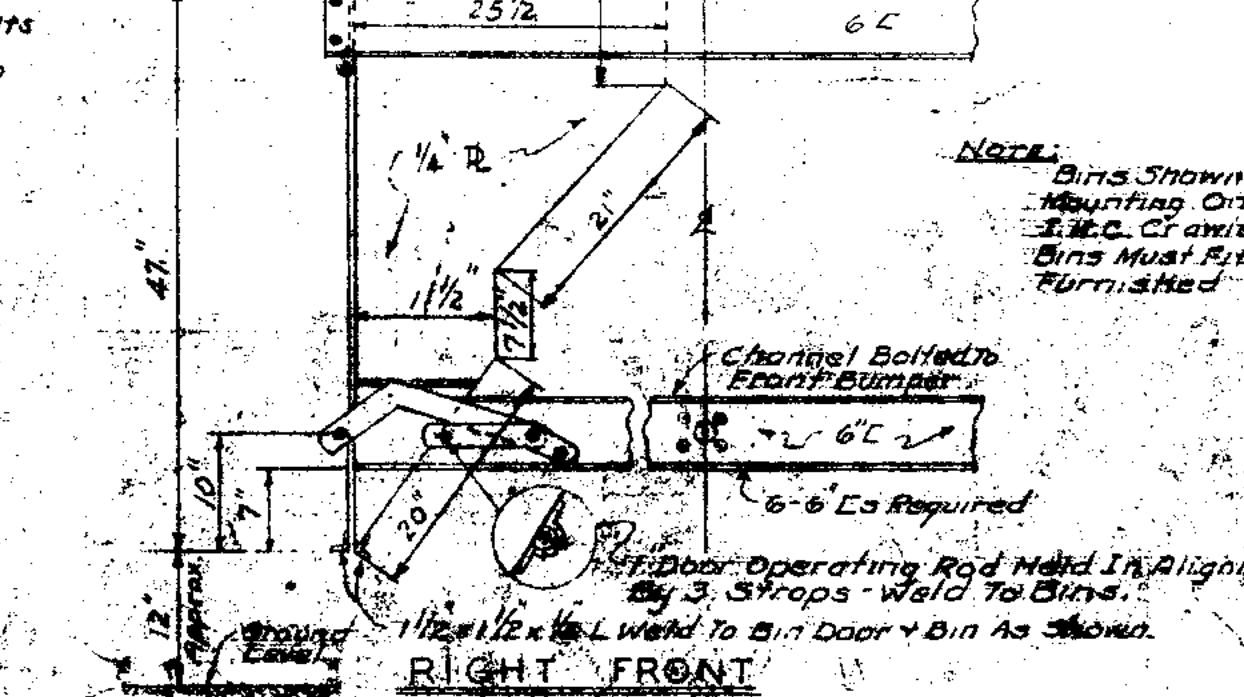
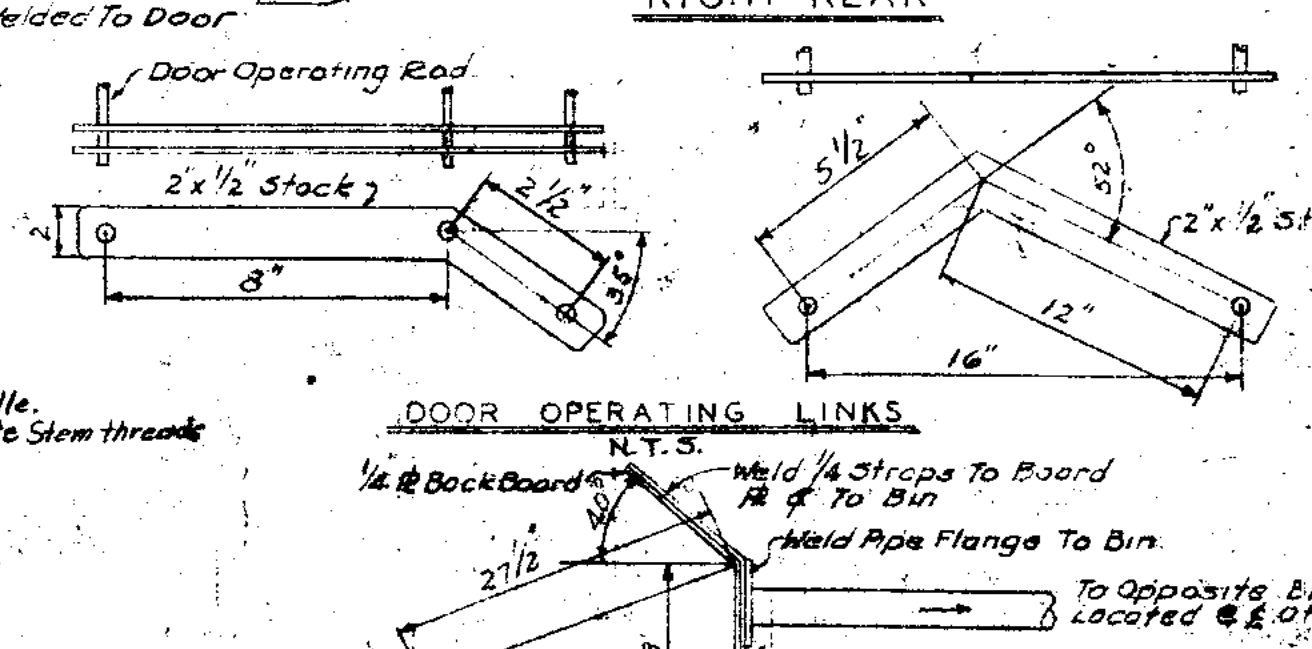
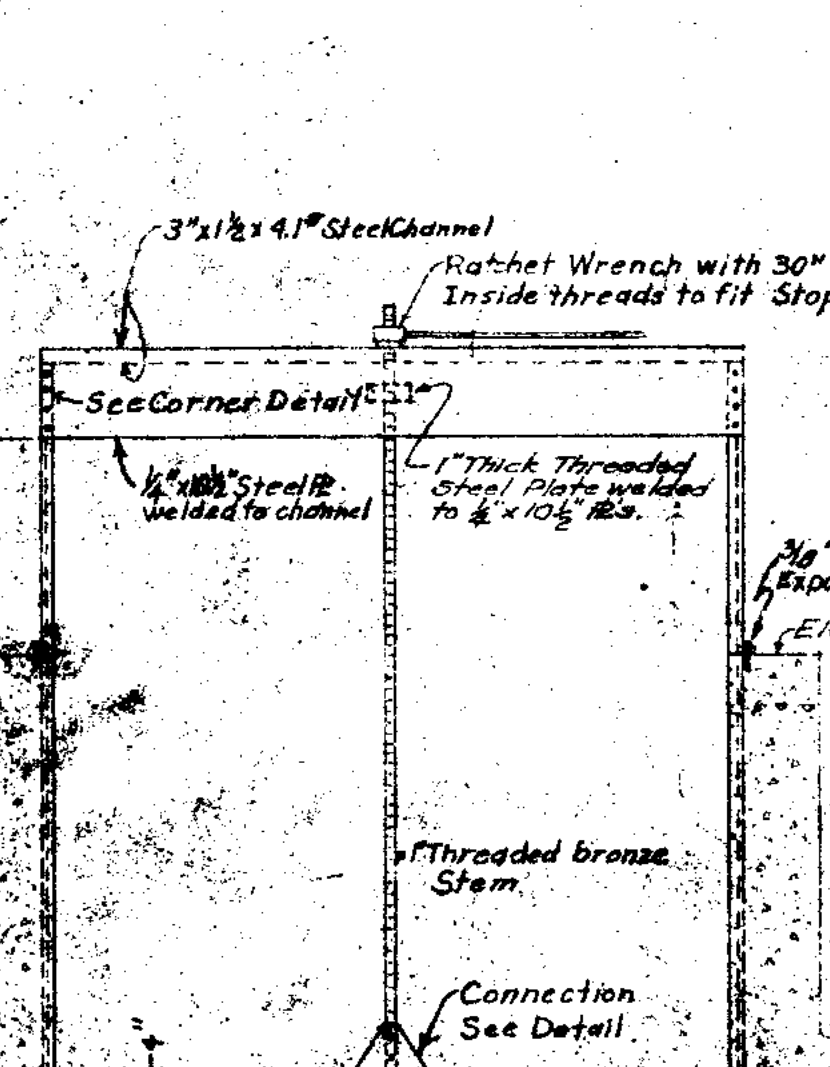
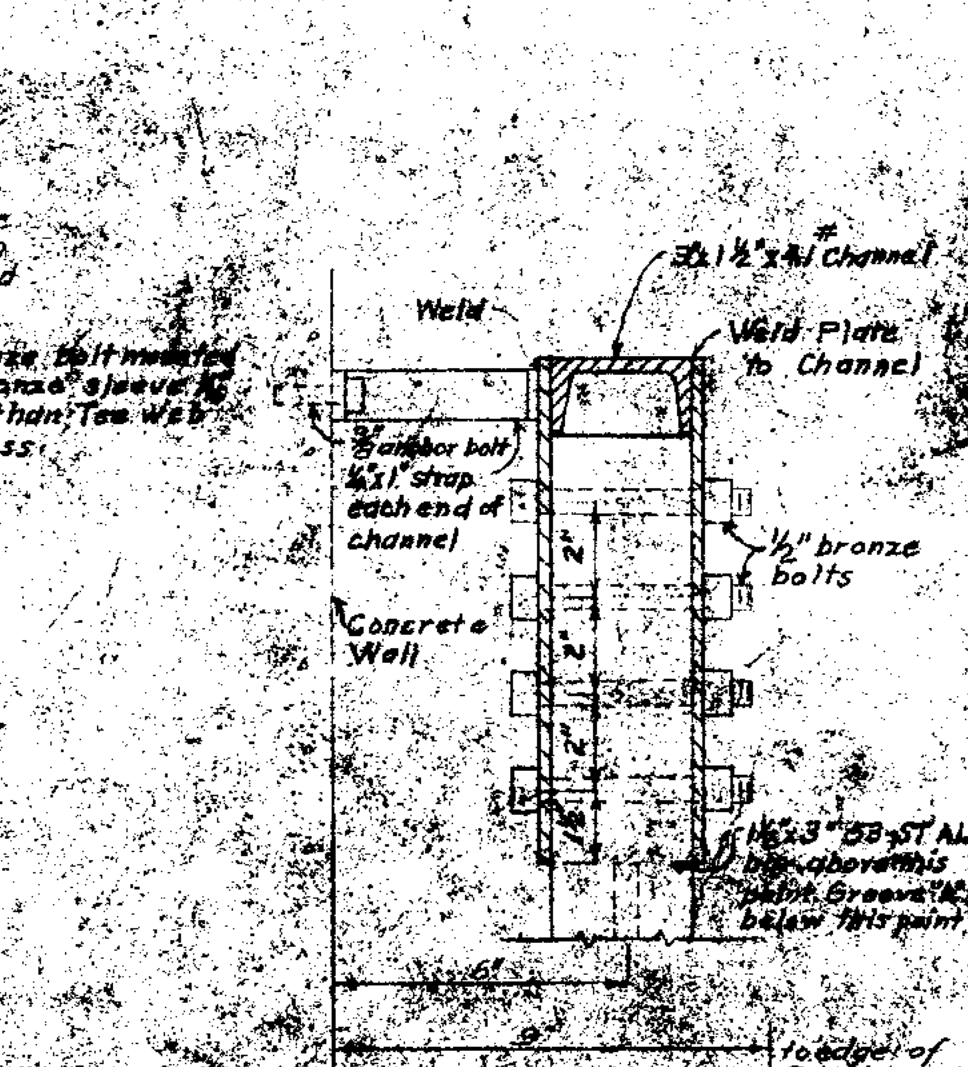
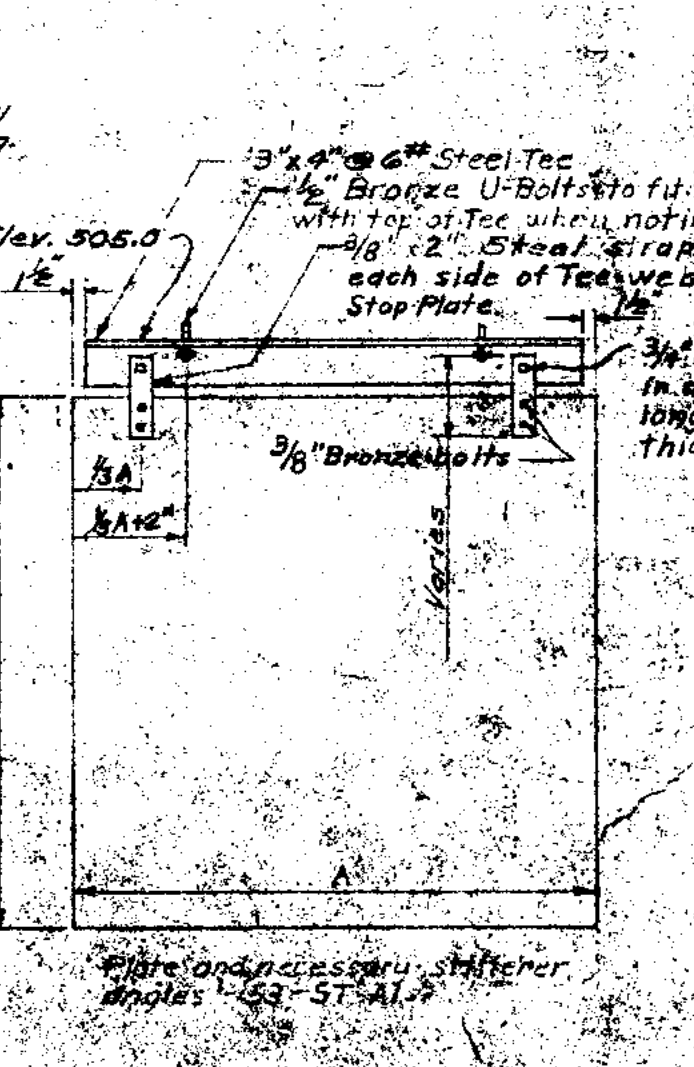
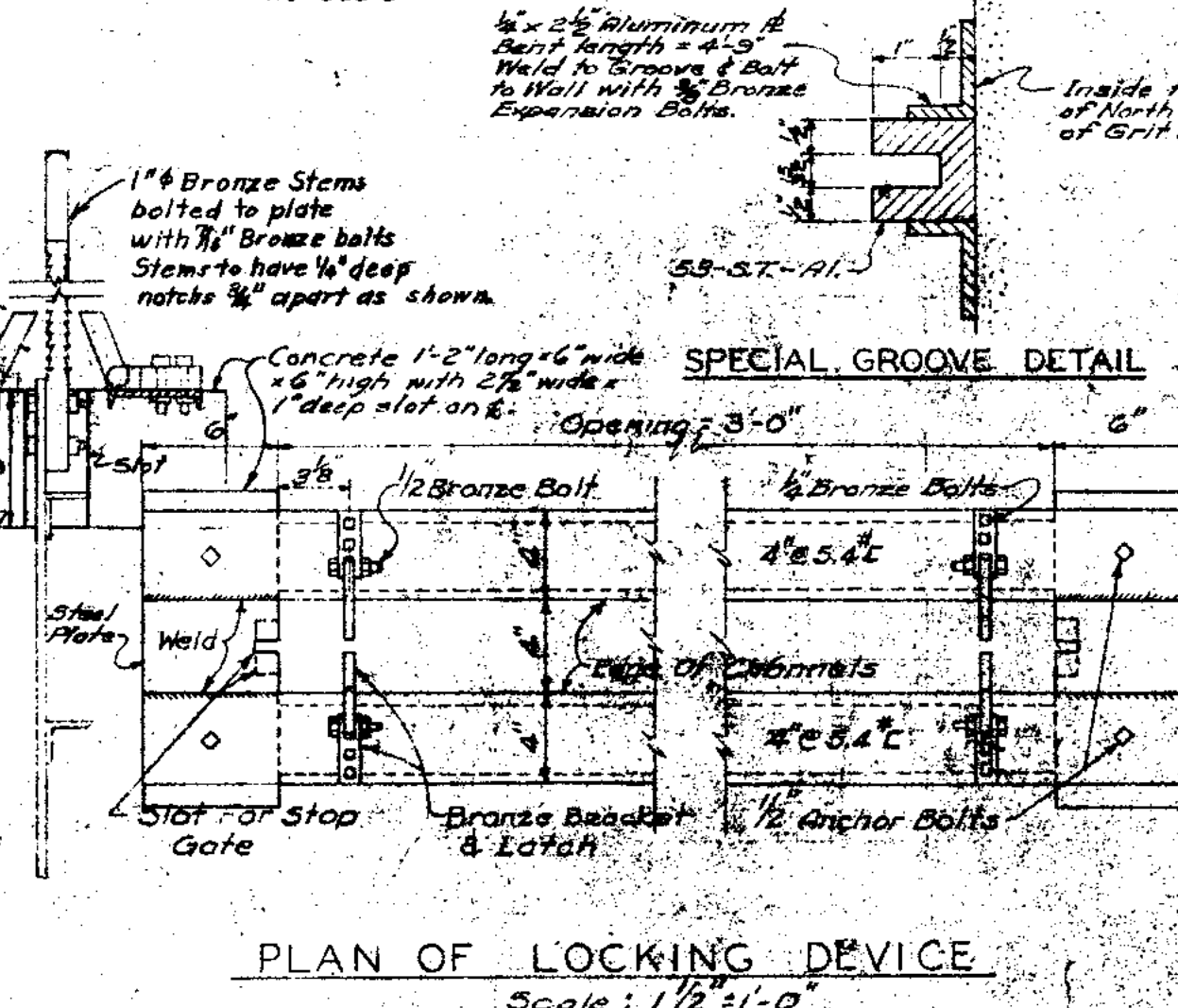
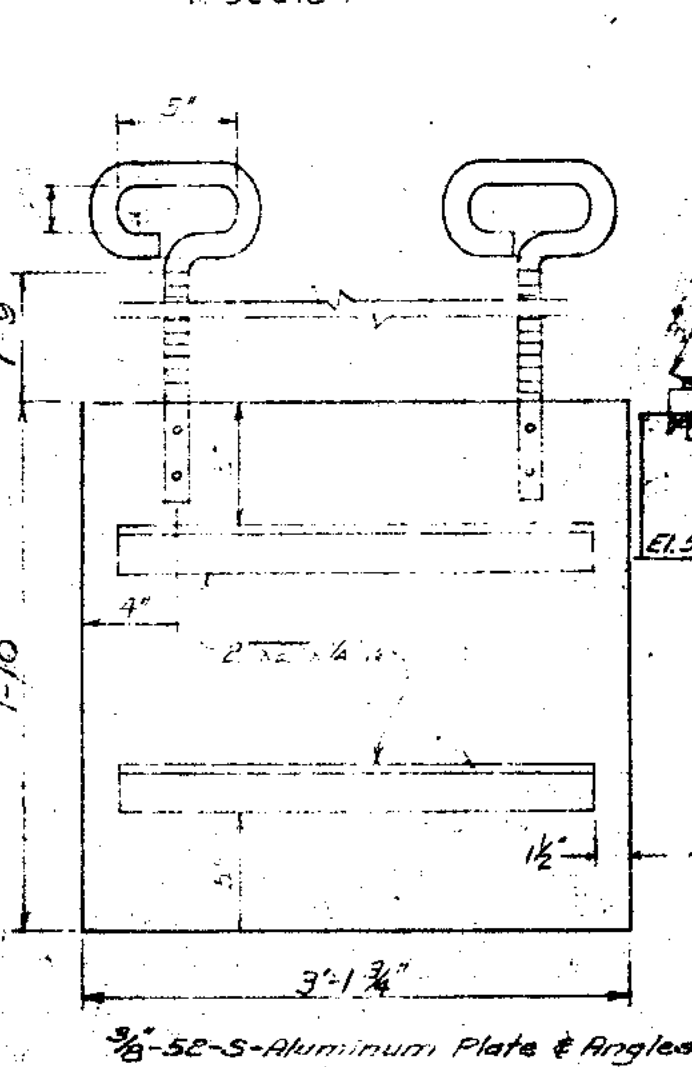
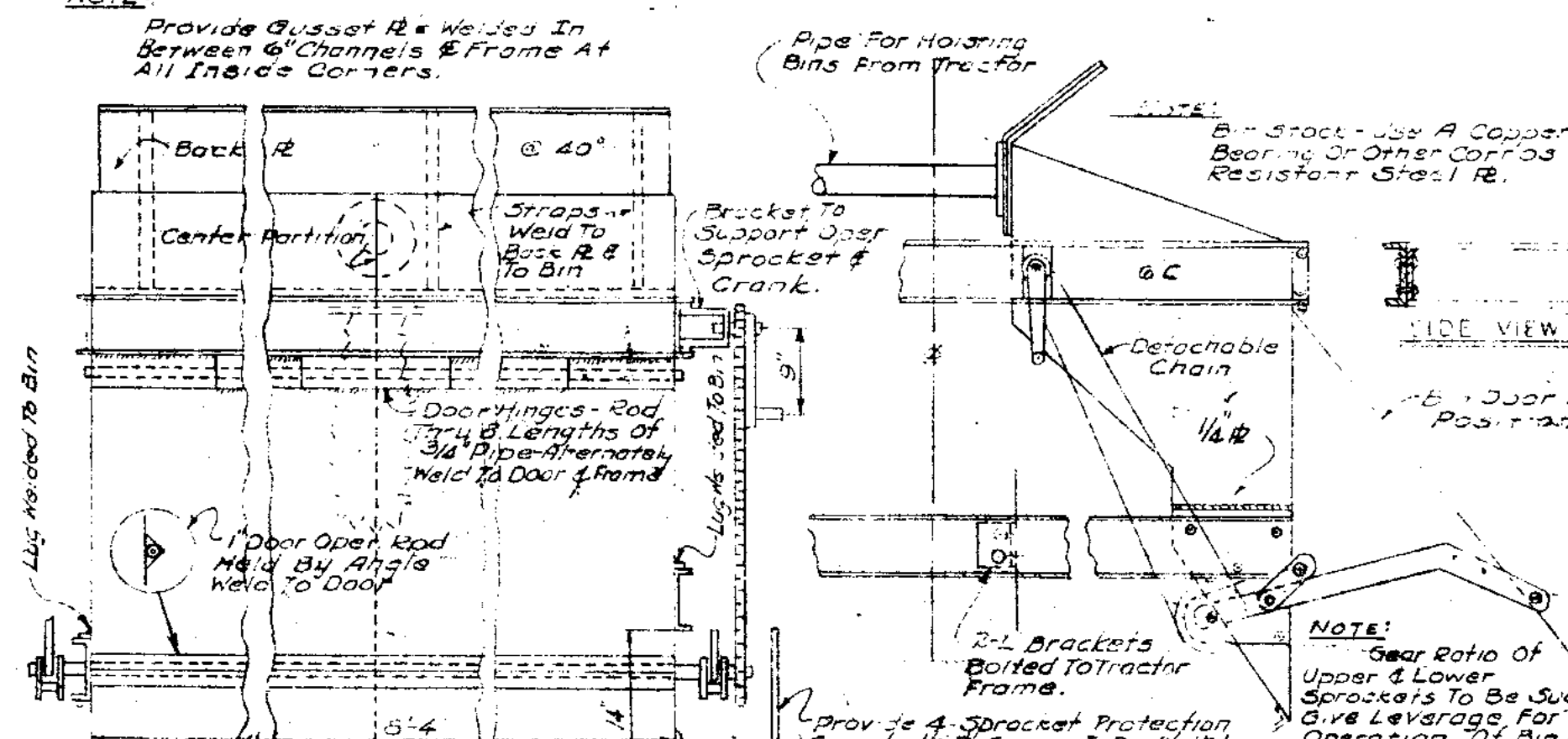
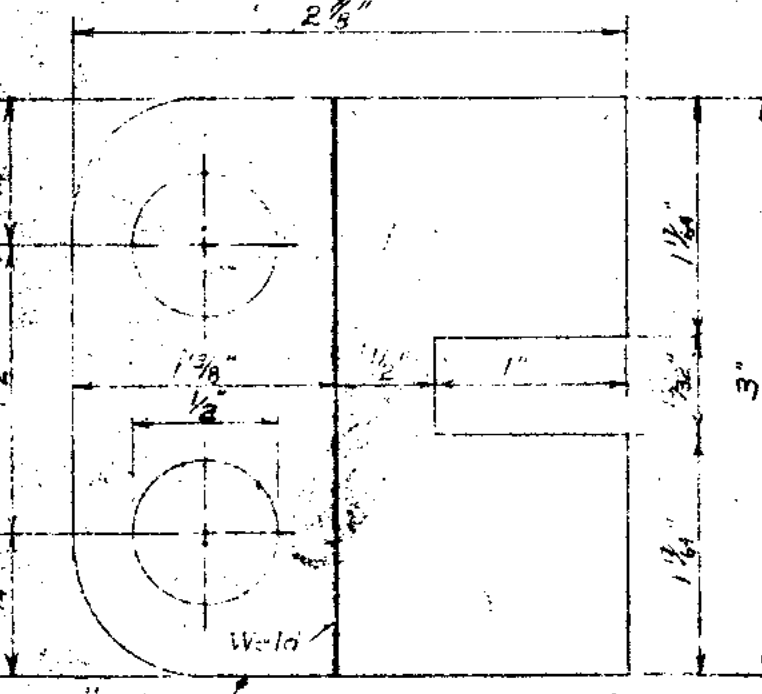
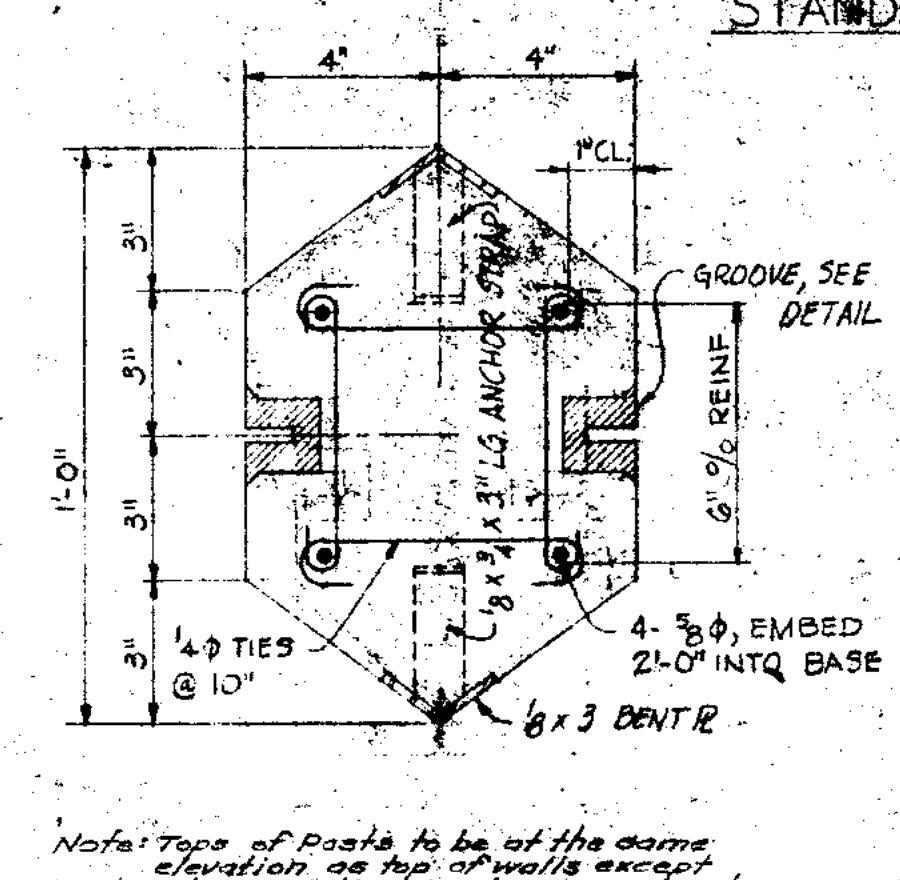
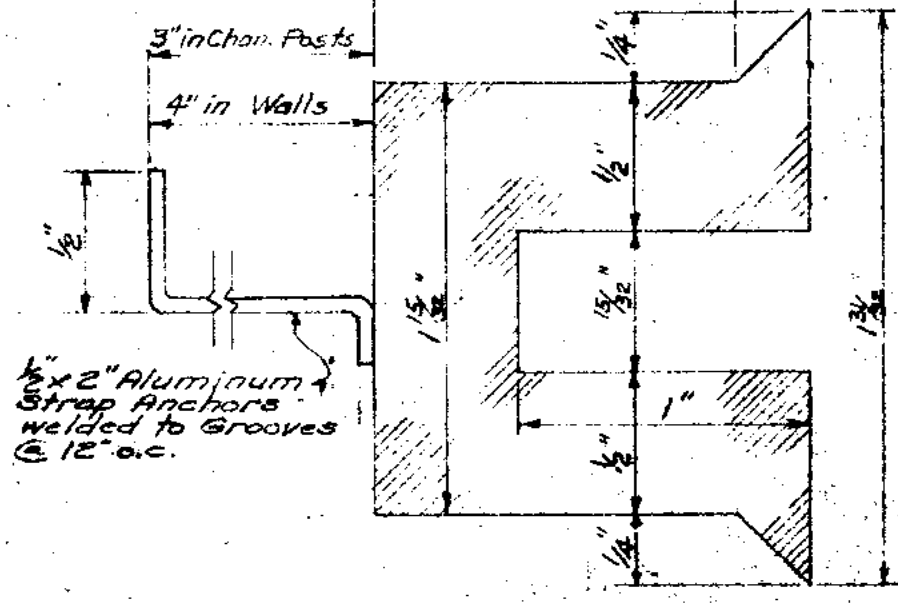
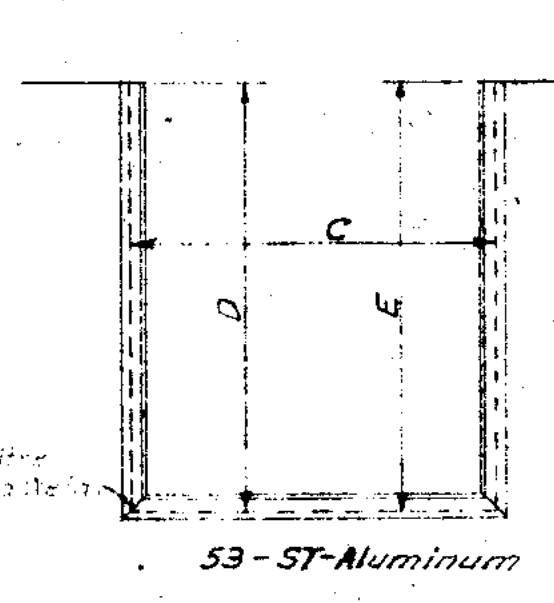
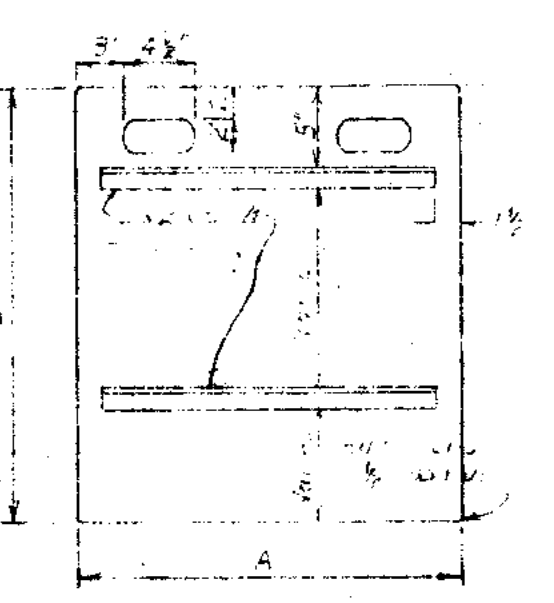
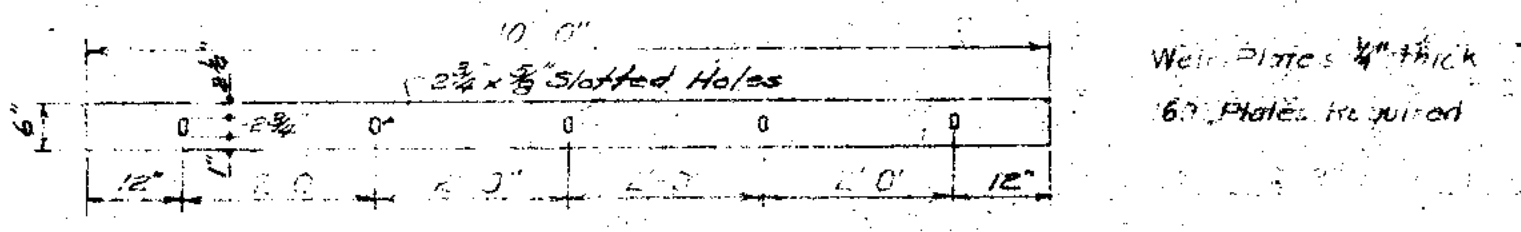
CONSOER, TOWNSEND & ASSOCIATES  
CONSULTING ENGINEERS  
CHICAGO, ILL.

SCALE: AS SHOWN  
SHEET NO. 20  
OF 25





LOCATION	FLUME DIMENSIONS									
	W	A	B	C	D	E	F	G	H	I
Primary Tank Influent Channel	1	4'-0"	8'-0"	5'-0"	5'-0"	4'-0"	3'-0"	2'-0"	2'-0"	2'-0"
Primary Tank Effluent Channel	4	3'-0"	4'-0"	3'-0"	3'-0"	3'-0"	2'-0"	2'-0"	2'-0"	2'-0"



Item No.	Description	STOP PLATE 'A' GROOVE SCHEDULE											
		Location	Material	Quantity	Notes	Location	Material	Quantity	Notes	Location	Material		
1	Stop Plate 'A'	Primary Tank Influent Channel	53-ST Aluminum	1		Primary Tank Effluent Channel	53-ST Aluminum	4		Primary Tank Effluent Channel	53-ST Aluminum	4	
2	Stop Plate Groove	Primary Tank Influent Channel	53-ST Aluminum	1		Primary Tank Effluent Channel	53-ST Aluminum	4		Primary Tank Effluent Channel	53-ST Aluminum	4	
3	Groove Detail	Primary Tank Influent Channel	53-ST Aluminum	1		Primary Tank Effluent Channel	53-ST Aluminum	4		Primary Tank Effluent Channel	53-ST Aluminum	4	
4	Concrete Channel Post	Primary Tank Influent Channel	Concrete	1		Primary Tank Effluent Channel	Concrete	4		Primary Tank Effluent Channel	Concrete	4	
5	Detail of Groove 'A'	Primary Tank Influent Channel	53-ST Aluminum	1		Primary Tank Effluent Channel	53-ST Aluminum	4		Primary Tank Effluent Channel	53-ST Aluminum	4	
6	Stop Plate 'B' and Locking Device	Primary Tank Influent Channel	52-S Aluminum	1		Primary Tank Effluent Channel	52-S Aluminum	4		Primary Tank Effluent Channel	52-S Aluminum	4	
7	Plan of Locking Device	Primary Tank Influent Channel	52-S Aluminum	1		Primary Tank Effluent Channel	52-S Aluminum	4		Primary Tank Effluent Channel	52-S Aluminum	4	
8	Stop Plate 'C'	Primary Tank Influent Channel	53-ST Aluminum	1		Primary Tank Effluent Channel	53-ST Aluminum	4		Primary Tank Effluent Channel	53-ST Aluminum	4	
9	Corner Detail	Primary Tank Influent Channel	53-ST Aluminum	1		Primary Tank Effluent Channel	53-ST Aluminum	4		Primary Tank Effluent Channel	53-ST Aluminum	4	
10	Stop Plate No 3	Primary Tank Influent Channel	53-ST Aluminum	1		Primary Tank Effluent Channel	53-ST Aluminum	4		Primary Tank Effluent Channel	53-ST Aluminum	4	

JOLIET, ILLINOIS  
SEWAGE TREATMENT PLANT  
MISCELLANEOUS METALWORK & CONSTRUCTION DETAILS  
CONSER, TOWNSEND & ASSOCIATES  
CONSULTING ENGINEERS

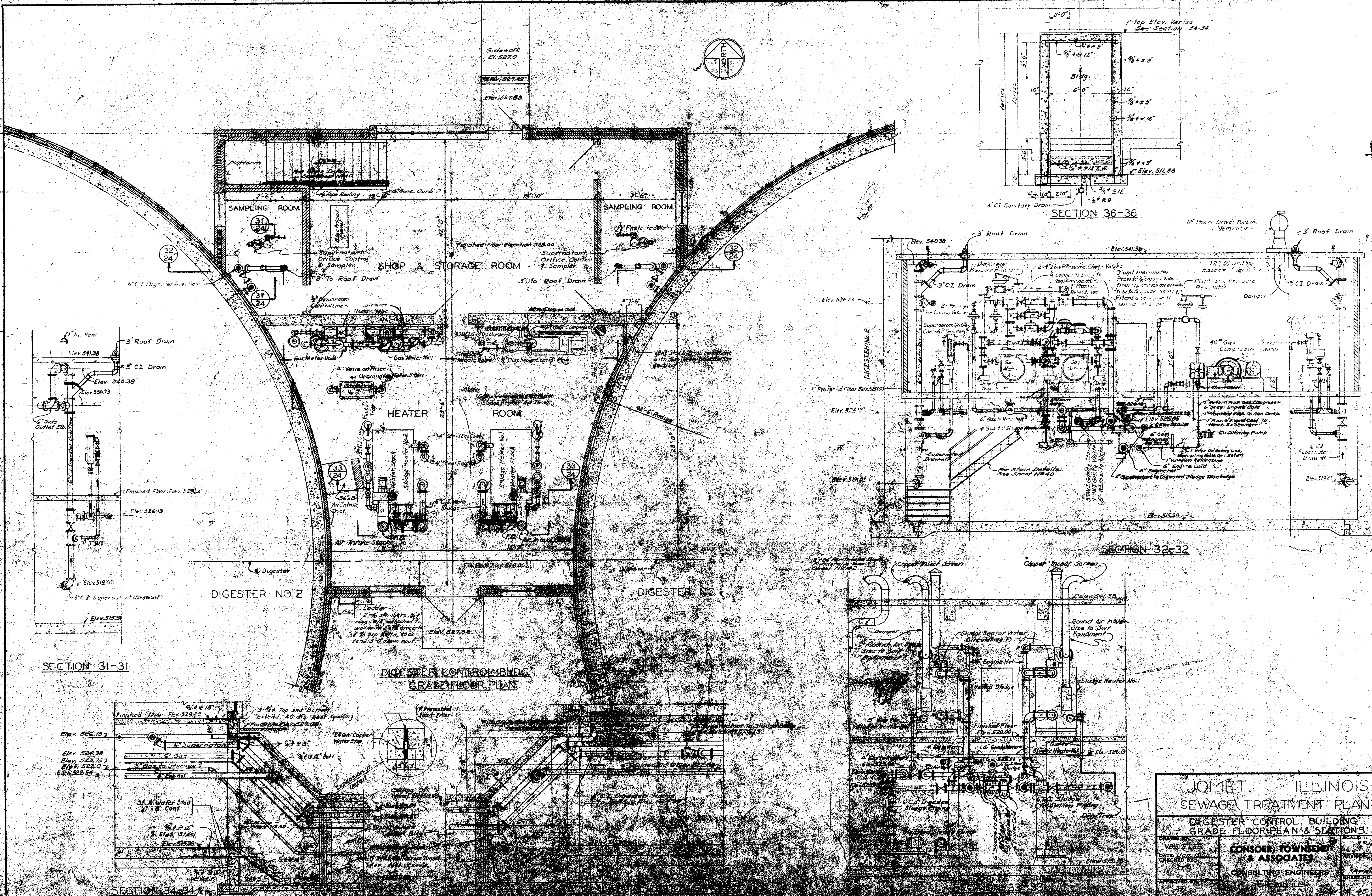












SECTION 31-31

SECTION 36-36

SECTION 32-32

SECTION 34-34

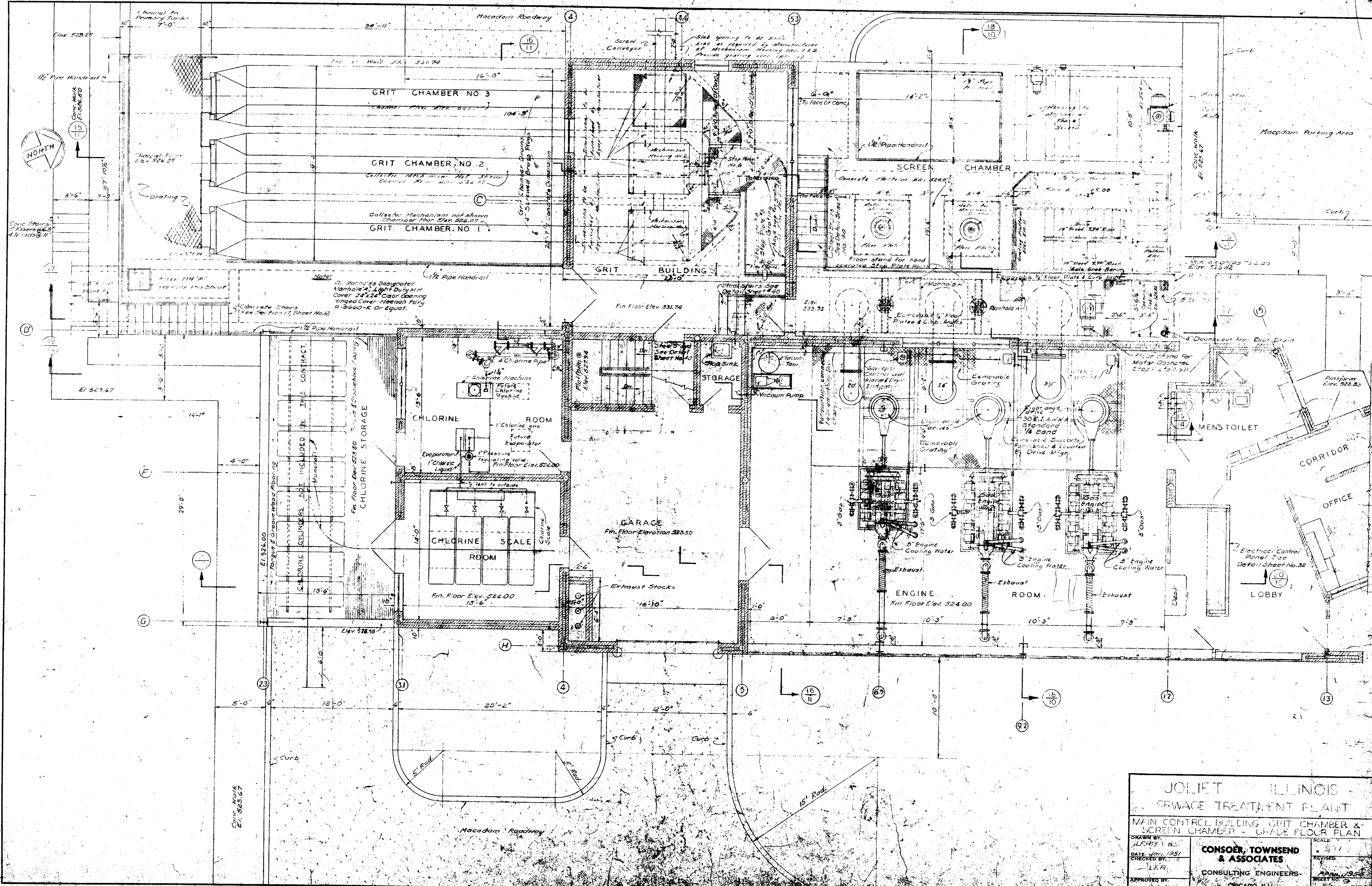
DIGESTER CONTROL BLDG.  
GRADE FLOOR PLAN

JOLIET, ILLINOIS  
SEWAGE TREATMENT PLANT

DIGESTER CONTROL BUILDING  
GRADE FLOOR PLAN & SECTIONS

DESIGNED BY VERNON E. TOWNSEND	DATE 10/16/52	SCALE 1/8" = 1'-0"
DRAWN BY CONSOER, TOWNSEND & ASSOCIATES		PROJECT NO. 11-10-52
CHECKED BY CONSULTING ENGINEERS		SHEET NO. 2
APPROVED BY CHAS. H. TOWNSEND		DATE 11/1/52





**JOLIET ILLINOIS**  
SEWAGE TREATMENT PLANT

**MAIN CONTROL BUILDING GRIT CHAMBER & SCREEN CHAMBER - GRADE FLOOR PLAN**

DRAWN BY H.F.P.	SCALE 1/4" = 1'-0"	CHECKED BY L.F.A.	REVISOR DATE SHEET NO. 9 OF 16
<b>CONSER, TOWNSEND &amp; ASSOCIATES</b> CONSULTING ENGINEERS CHICAGO, ILL.			