

# CITY OF ST. CHARLES, ILLINOIS

04-09c

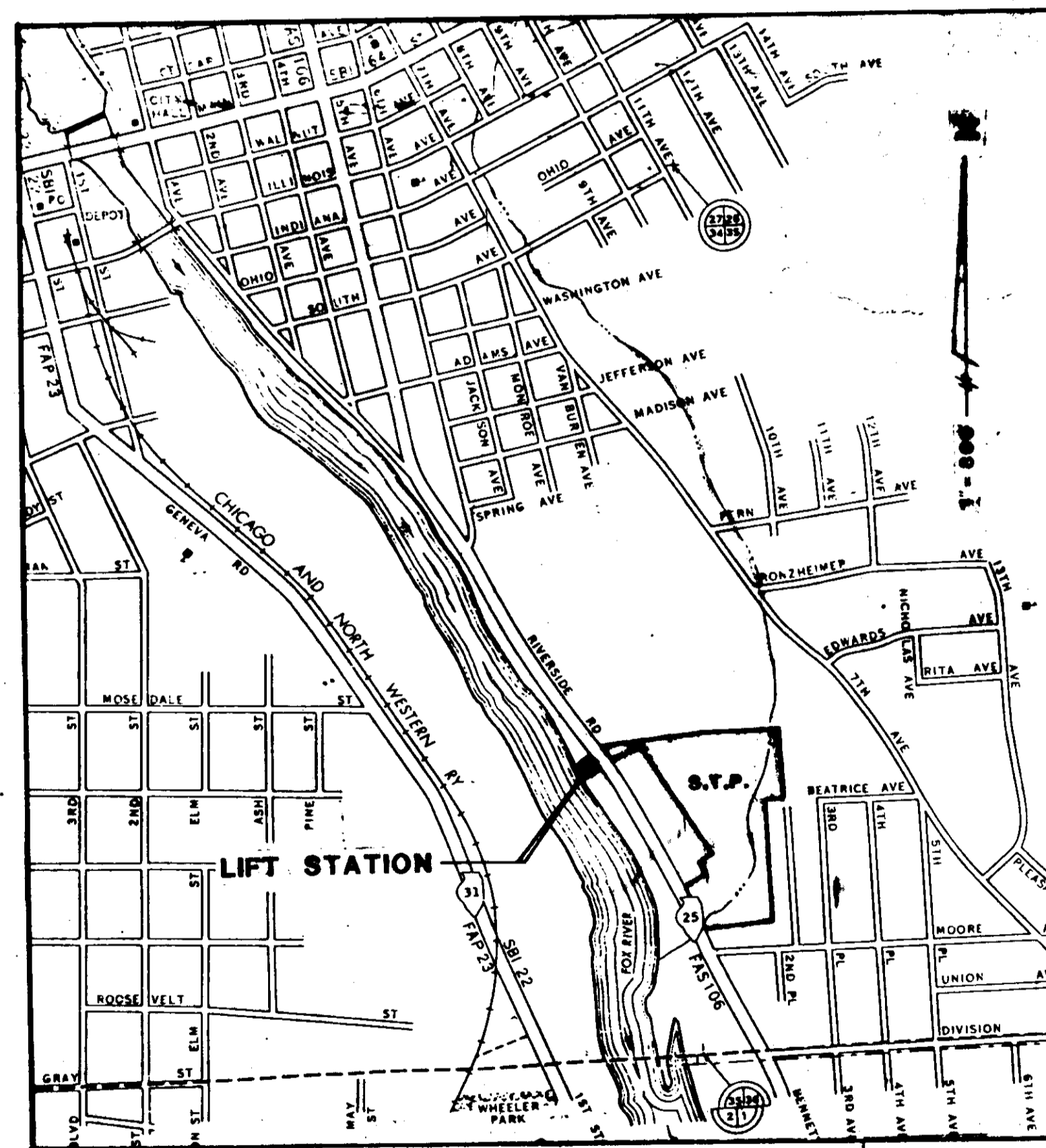
## IEPA GRANT N<sup>o</sup>. C-172320-02 LIFT STATION REHABILITATION

### CONTRACT N<sup>o</sup>. 1

## SEWER SYSTEM REHABILITATION — 1981

#### CITY OFFICIALS

FRED T. L. NORRIS	MAYOR
WILLIAM BARNES	CITY COMPTROLLER
DARRYLL BAUER	DIRECTOR OF PUBLIC WORKS
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JAMES E. MARTIN	ALDERMAN
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ALPHONSE D. DEWITTE	ALDERMAN
GUSTAVE ENZENBACHER	ALDERMAN
ERNEST K. BYRD	ALDERMAN
JOEL J. MORSCH	ALDERMAN
WILLIAM H. OLSEN	ALDERMAN
FRED G. UTROSKA	ALDERMAN



LOCATION MAP

SHEET NO.	TITLE
1 - 13	ENGINEERING DRAWINGS
1	COVER, LOCATION MAP, INDEX
2	EXISTING BUILDING & EQUIPMENT
3	STRUCTURAL MODIFICATIONS
4	OUTSIDE PIPING & DRIVEWAY PLAN
5	TEMPORARY PUMP & STRUCTURAL DETAILS
6	PLAN OF PROPOSED IMPROVEMENTS
7	SECTION OF PROPOSED IMPROVEMENTS
8	BAR SCREENS DETAILS
9	TRAMRAIL & HOIST
10	FORCE MAIN - PLAN & PROFILE
11	FORCE MAIN - PLAN & PROFILE
12	INLET STRUCTURE & SITE PLAN AT W.W.T.P.
13	DETAILS
A1 - A6	ARCHITECTURAL DRAWINGS
A1	LANDSCAPING PLAN
A2	FOUNDATION PLAN
A3	FLOOR PLAN
A4	ELEVATIONS
A5	SECTIONS & DETAILS
A6	MECHANICAL PLANS & DETAILS

ROBERT H. ANDERSON <sup>INC.</sup> ASSOCIATES, INC.  
CONSULTING ENGINEERS

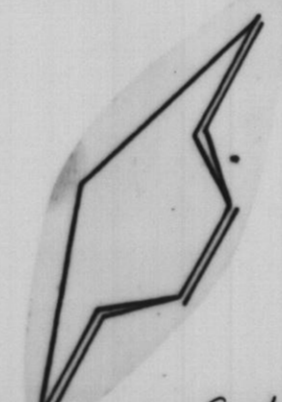
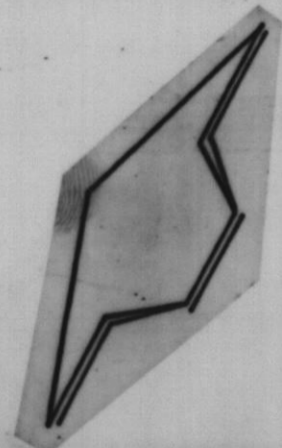
10 STATE AVE.  
ST. CHARLES, ILL.  
60174  
(312) 584-3880

10 EAST MAIN ST.,  
EAST DUNDEE, ILL.  
60118  
(312) 426-8880

2245 BUTTERFIELD RD.  
AURORA, ILL.  
60504  
(312) 851-3335

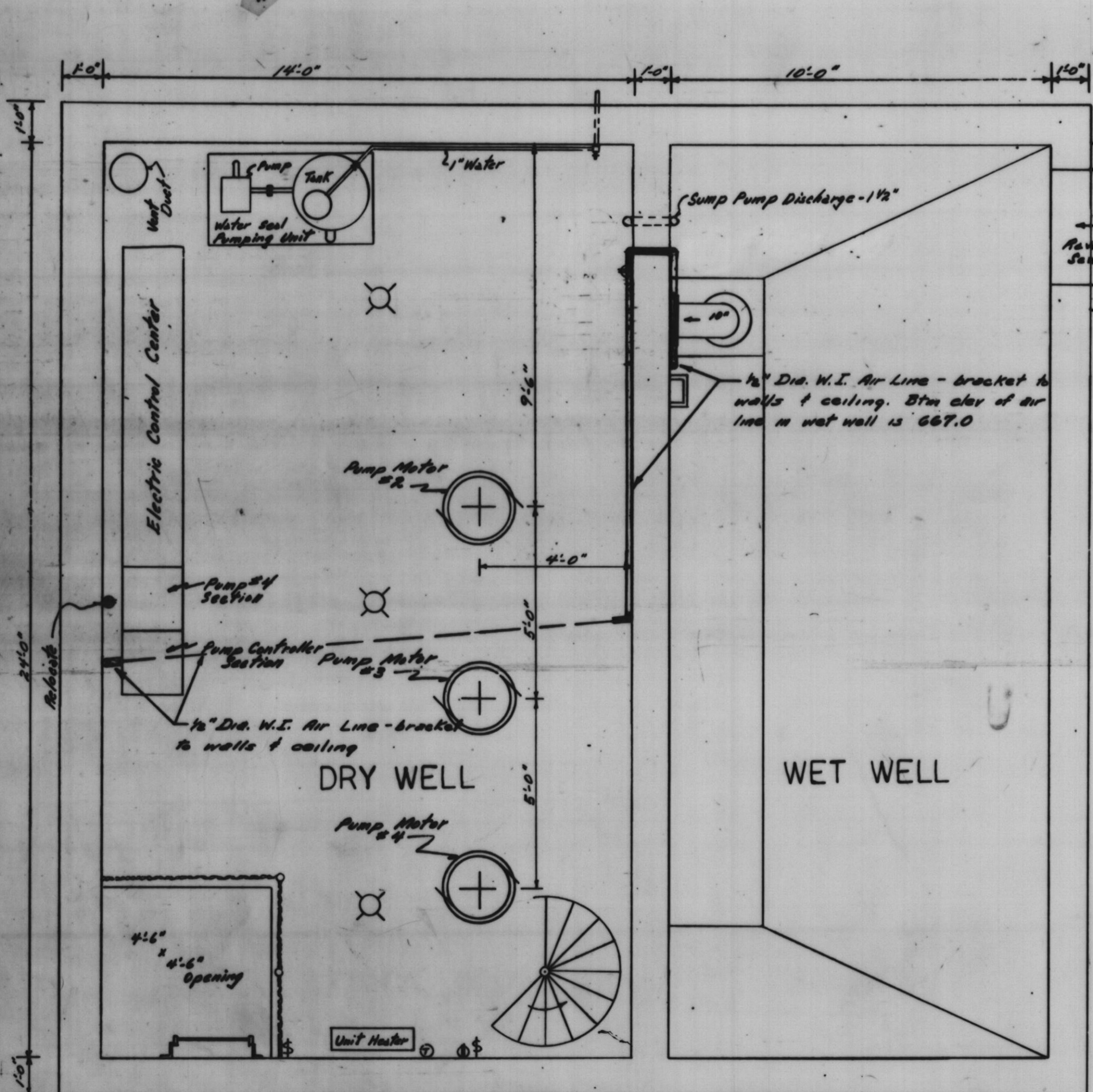


Record Drawings

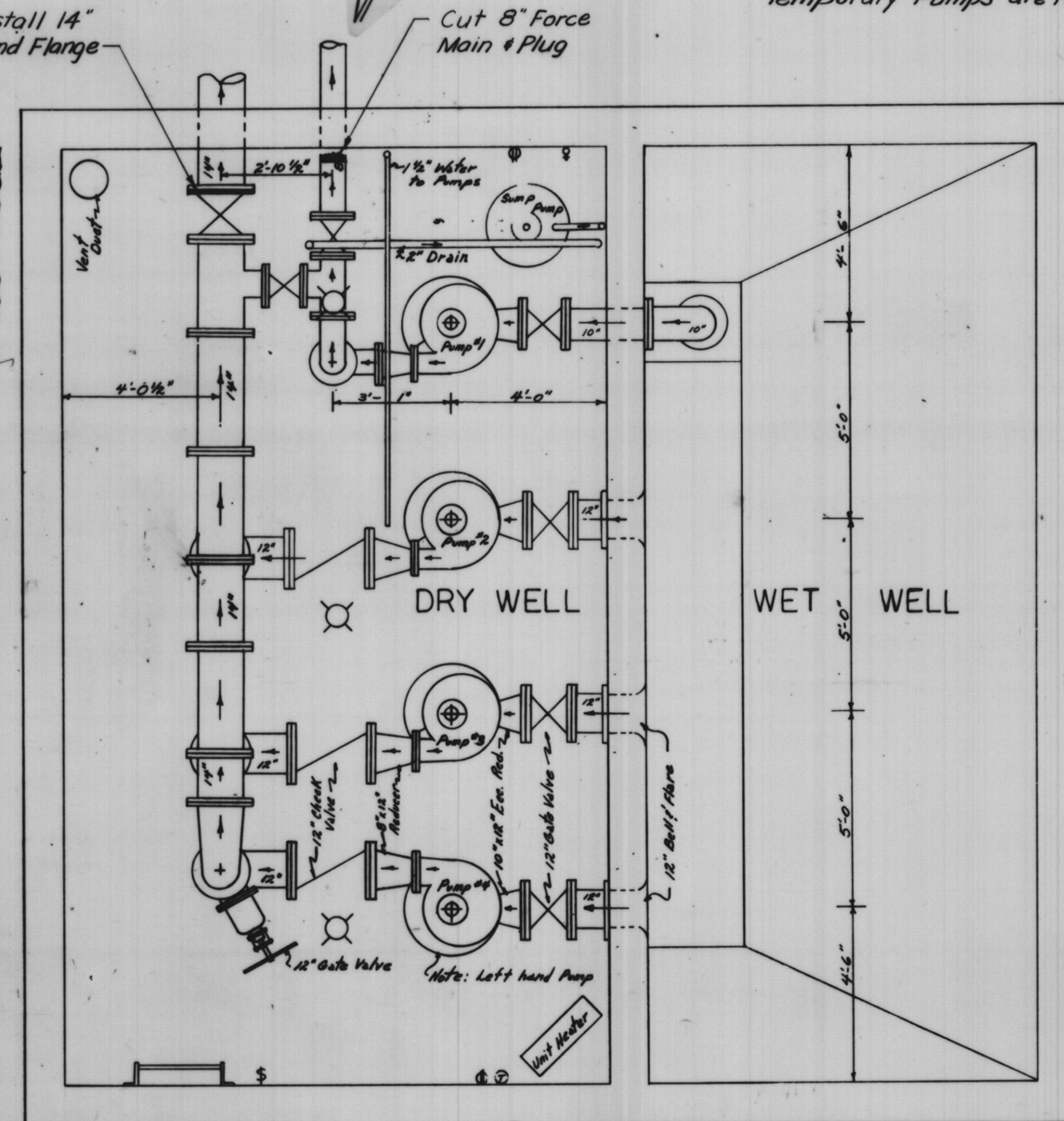


**NOTE**

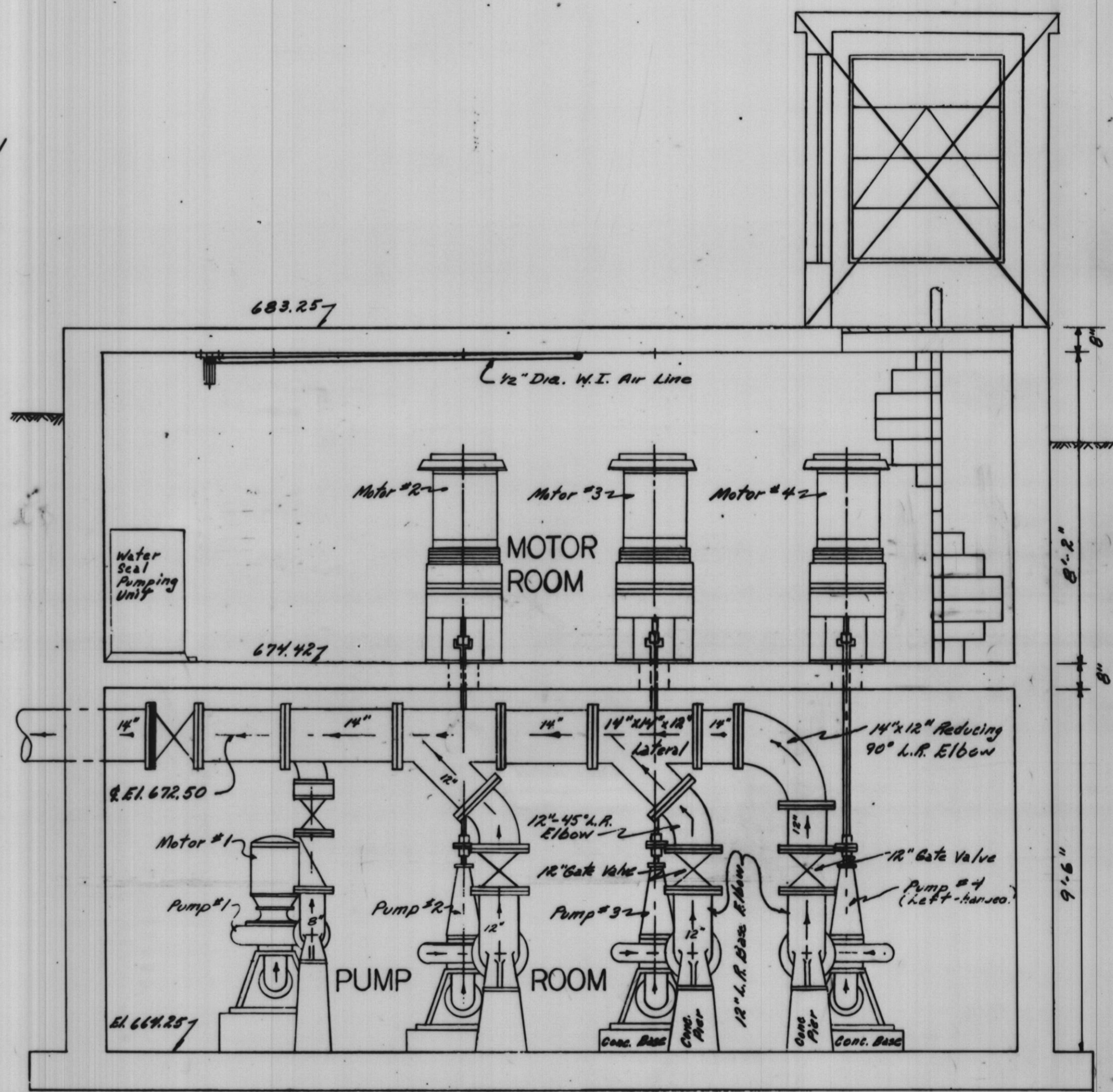
Contractor to remove all pumps, motors, piping, valves, electrical equipment, etc. in Motor Room and Pump Room only after Temporary Pumps are ready.



PLAN VIEW - MOTOR ROOM



PLAN VIEW - PUMP ROOM



SIDE VIEW - DRY WELL

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

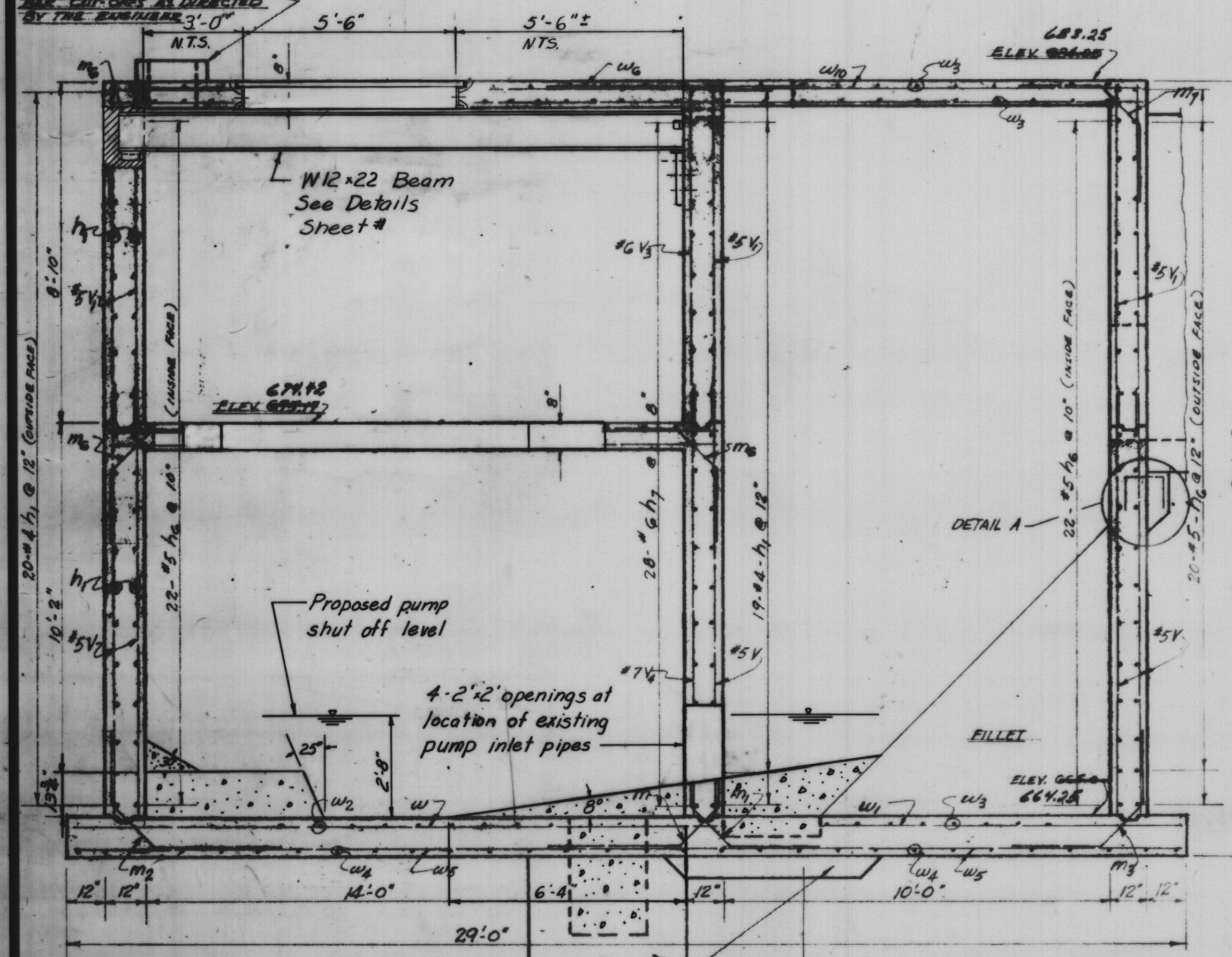
PLOTTED BY:	DATE	BY	REVISION DESCRIPTION	DATE	BY	REVISION DESCRIPTION
CHECKED BY:	1-20-82	BEW	Add: Iron To Note			
DRAWN BY:	6-4-83		Record Drawing			
CHECKED BY:						
APPROVED BY:						

**RHA & A** ROBERT H. ANDERSON & ASSOCIATES, INC.  
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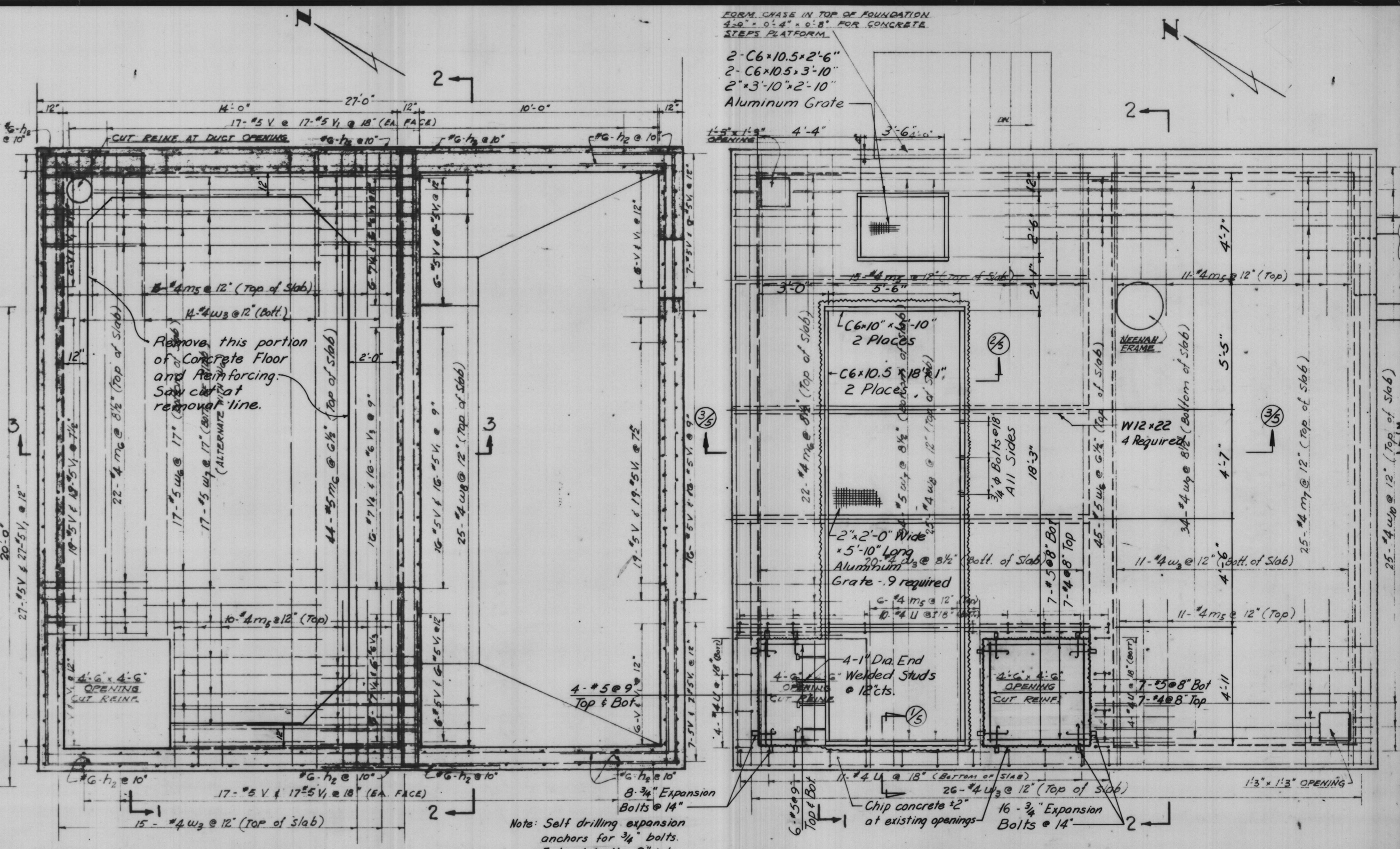
CITY OF ST. CHARLES  
Riverside Pumping Station  
**EXISTING BUILDING & EQUIPMENT**

PROJECT NO. 100-046  
SCALE AS SHOWN DATE: 11-13-81  
SHEET OF  
**2 13**

NOTE: PROVIDE FORMS FOR VENTILATOR CURBS FROM THE CHANGES AS DIRECTED BY THE ENGINEER 3'-0" N.T.S.



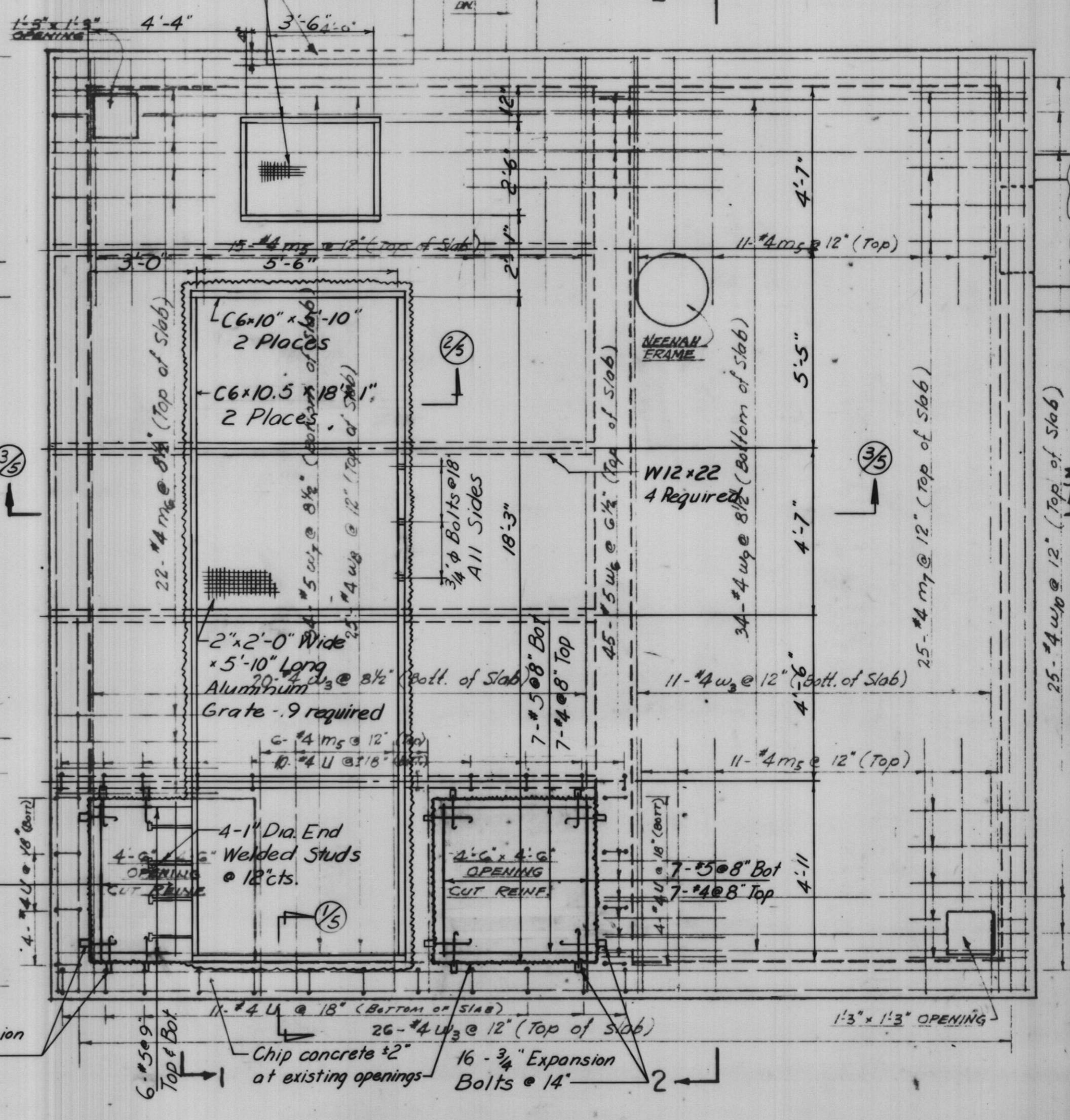
SECTION 3-3



PLAN-ELEVATION 673.17 674.42

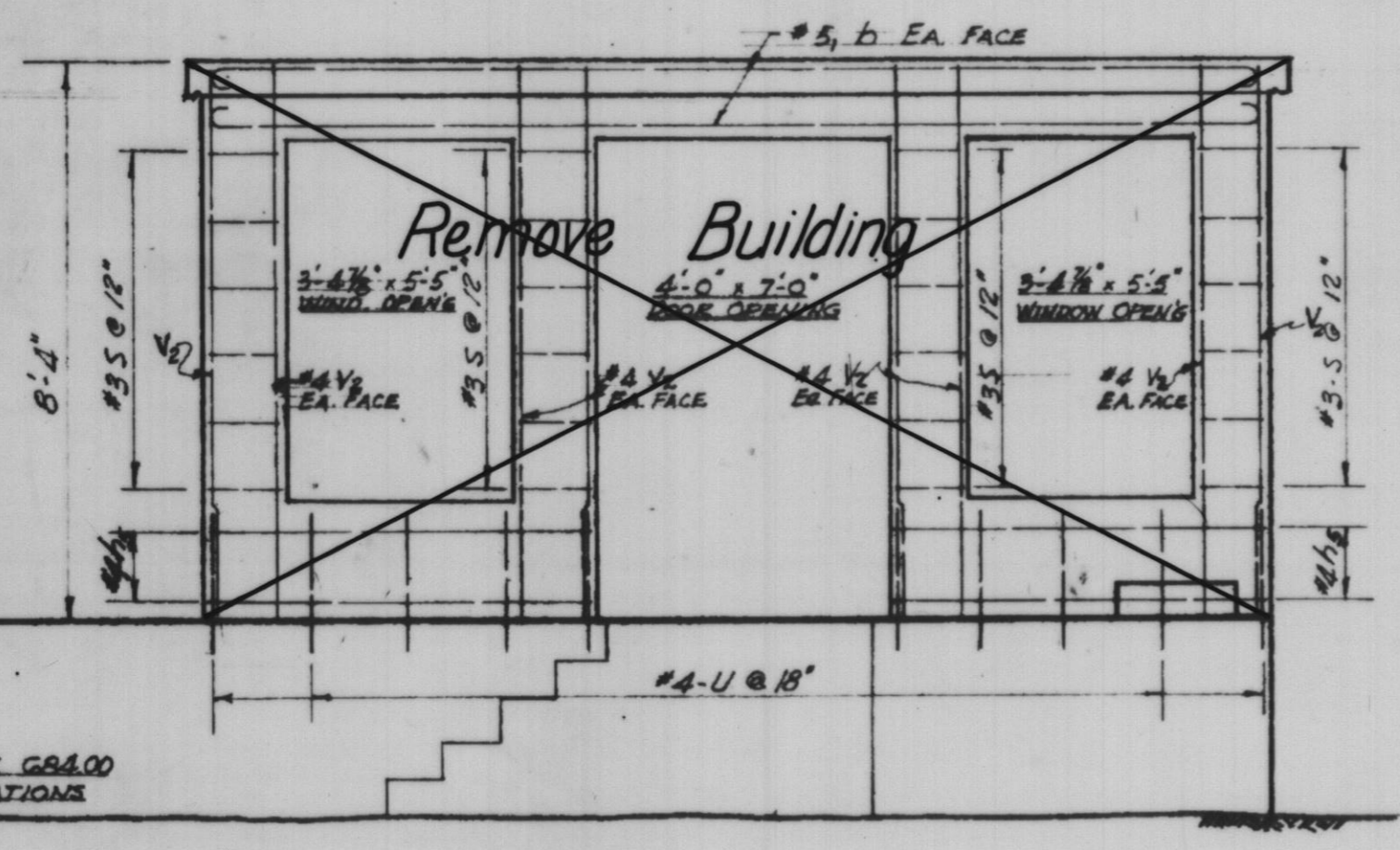
FORM CHASE IN TOP OF FOUNDATION 4'-0" x 0'-4" x 0'-8" FOR CONCRETE STEPS PLATFORM.

2-C6x10.5x2'-6"  
2-C6x10.5x3'-10"  
2'-3'-10"x2'-10"  
Aluminum Grate

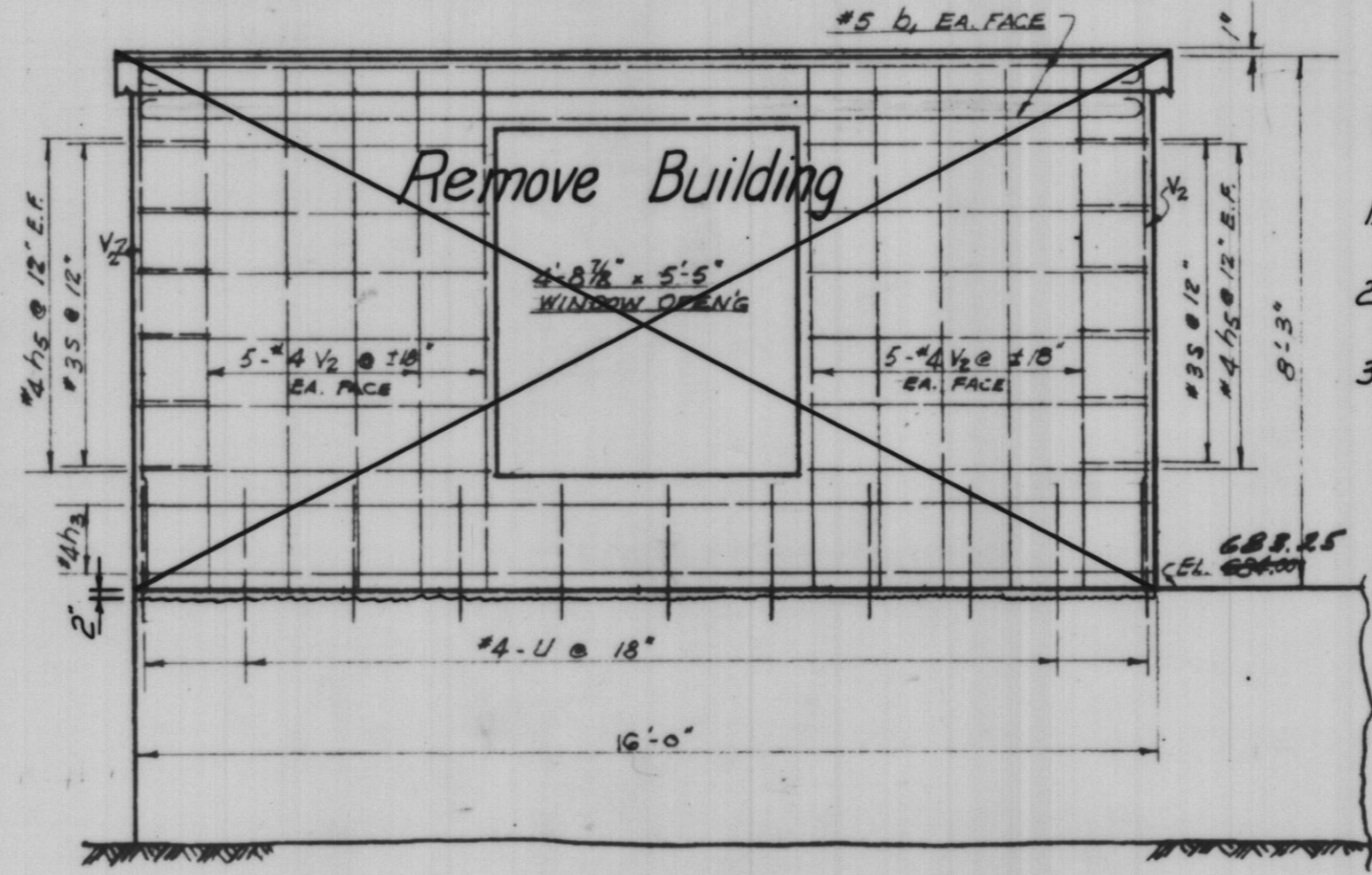


PLAN-ELEVATION 684.00 683.25

Note: Self drilling expansion anchors for 3/4" bolts. Extend bolts 9" into new concrete.



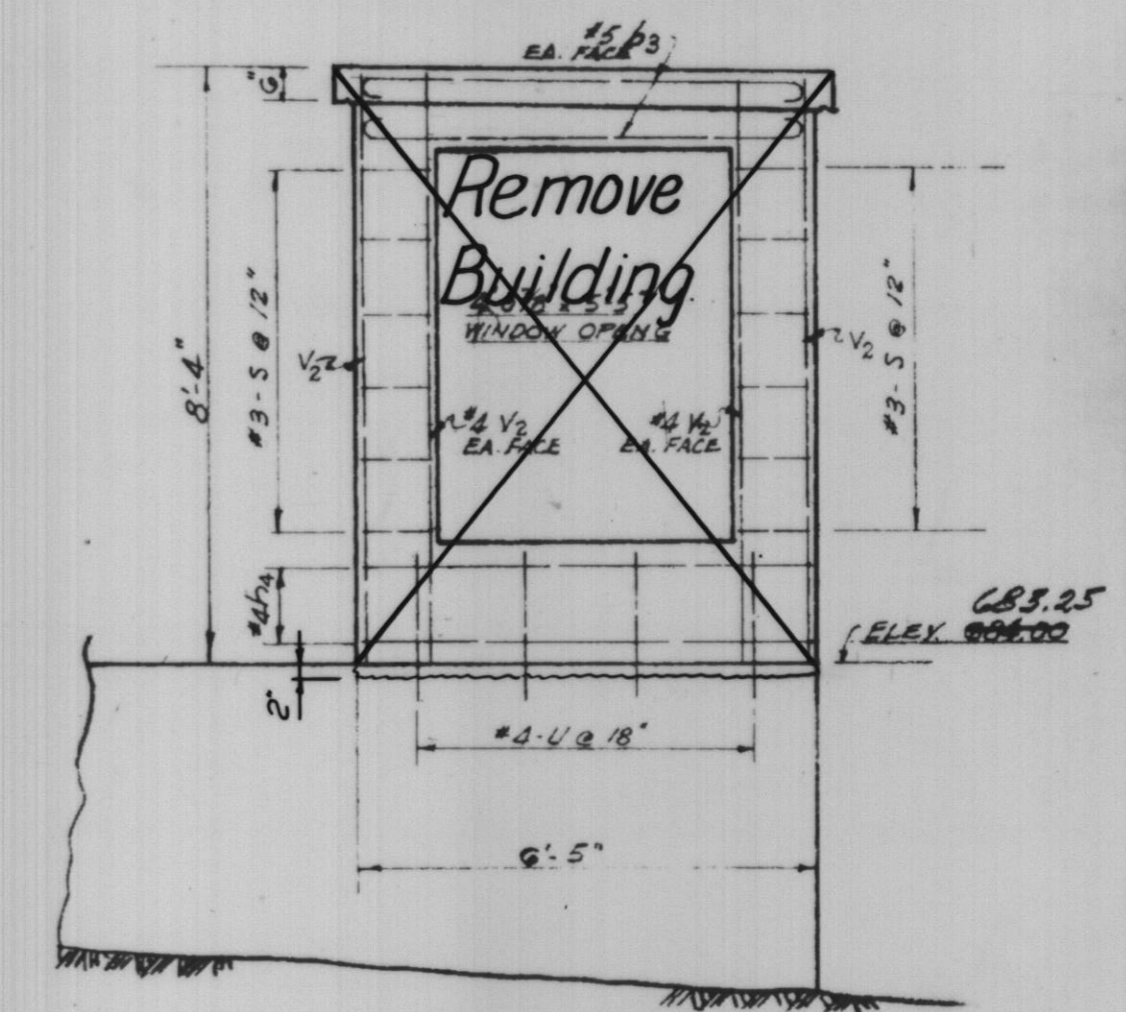
EAST ELEVATION



WEST ELEVATION

SLAB REPAIR AT JOINT OF ORIGINAL BUILDING WALL

1. Remove existing wall and cut reinforcing 1" min. below floor
2. Chip out existing concrete (2' deep) to provide vertical edges
3. Replace with concrete patching using small aggregate. Finish to conform to adjacent slab finished texture.



NORTH ELEVATION

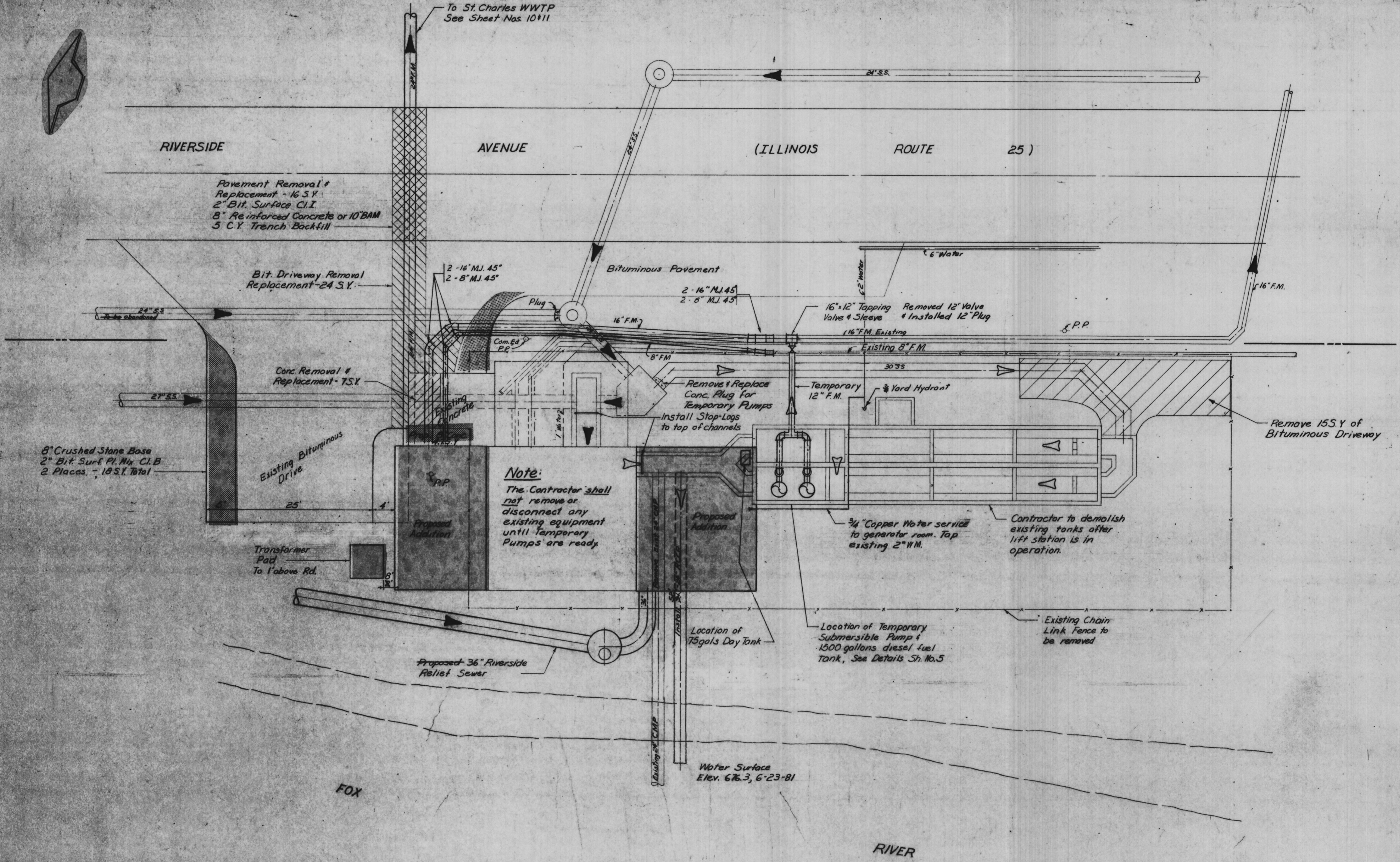
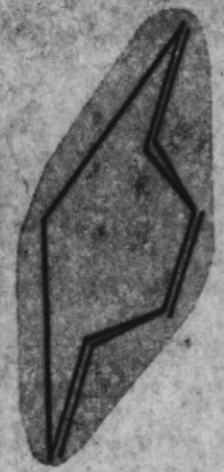
Scale: 3/8"=1'-0"

PLOTTED BY:	DATE	BY	REVISION DESCRIPTION	DATE	BY	REVISION DESCRIPTION
CHECKED BY:	6-1-82	BBW	Opening in Top Slab Beams			
DRAWN BY:	6-4-82		Record Drawing			
CHECKED BY:						
APPROVED BY:						

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ST. CHARLES, EAST DUNDEE & AURORA, ILLINOIS

CITY OF ST. CHARLES  
Riverside Pumping Station  
**STRUCTURAL MODIFICATIONS**

PROJECT NO. 100-048  
SCALE AS SHOWN DATE: 11-13-81  
SHEET OF  
**3 13**



**OUTSIDE PIPING & DRIVEWAY PLAN**

Scale: 1/8" = 1'-0"

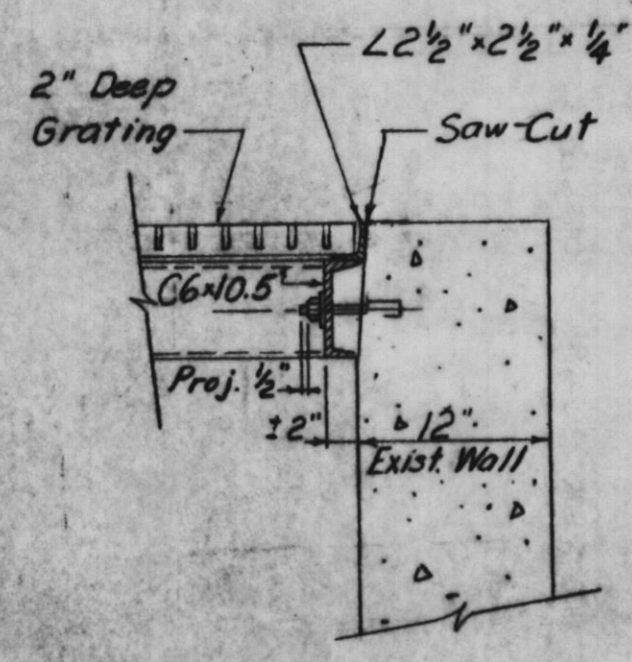
Record Drawing 4-5-83

DATE	BY	REVISION DESCRIPTION	DATE	BY	REVISION DESCRIPTION
1-20-81	BFF	Addition of Note			
2-16-82	KL	ADD 8" FORCE MAIN			

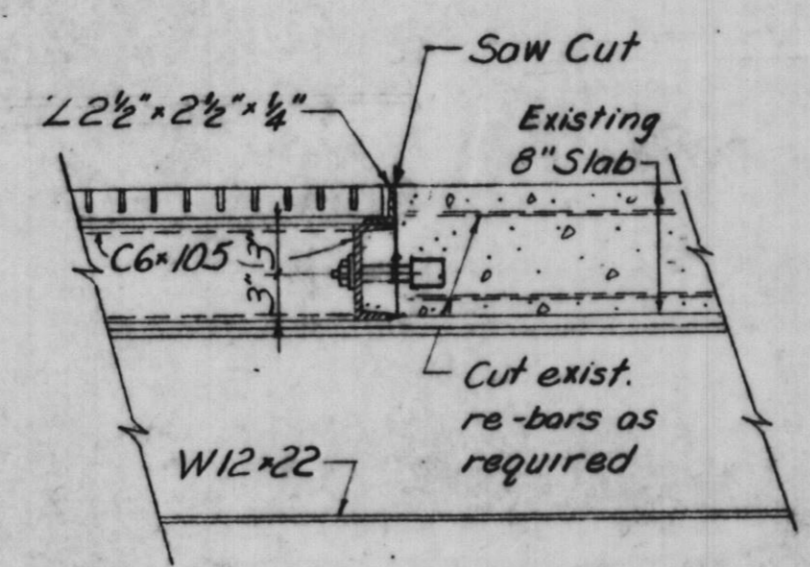
**RHA & A**  
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 ST. CHARLES, EAST DUNDEE & AURORA, ILLINOIS

**CITY OF ST. CHARLES**  
 Riverside Pumping Station  
**OUTSIDE PIPING & DRIVEWAY PLAN**

PROJECT NO. 100-048
SCALE: 1/8" = 1'-0" DATE: 11-13-81
SHEET OF
<b>4 13</b>



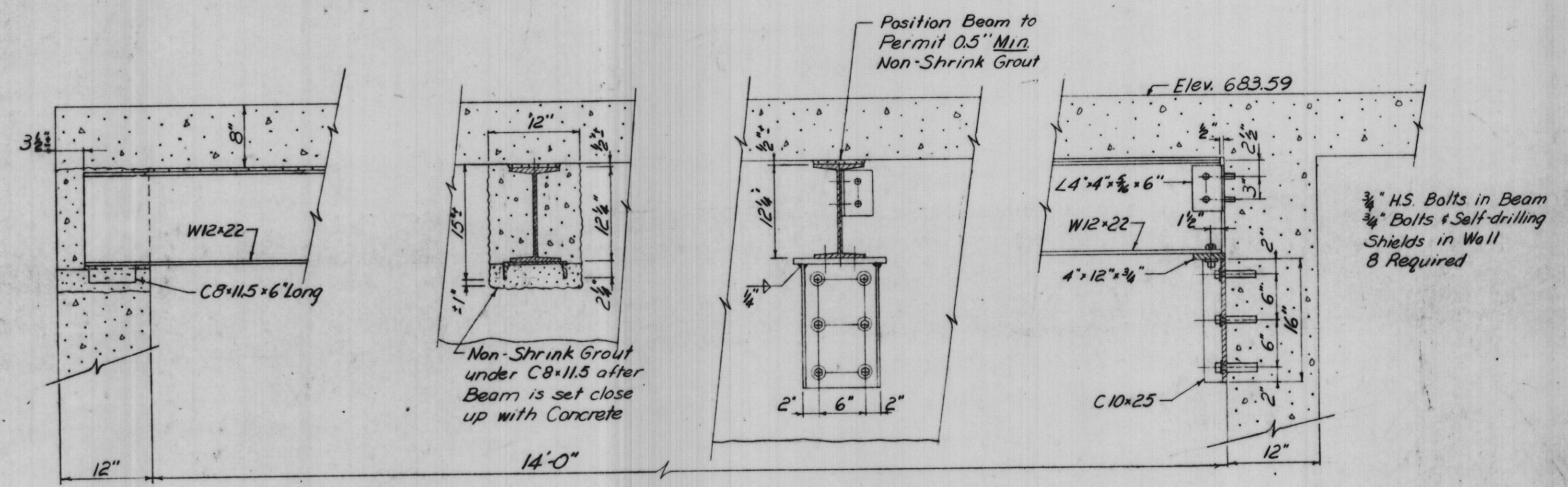
Note:  
1" Dia. Holes for 3/4" Bolt,  
washer & hex nut in  
self-drilling expansion  
shield @ 18" cts.



SECTION 1/5

SECTION 2/5

SLAB OPENING

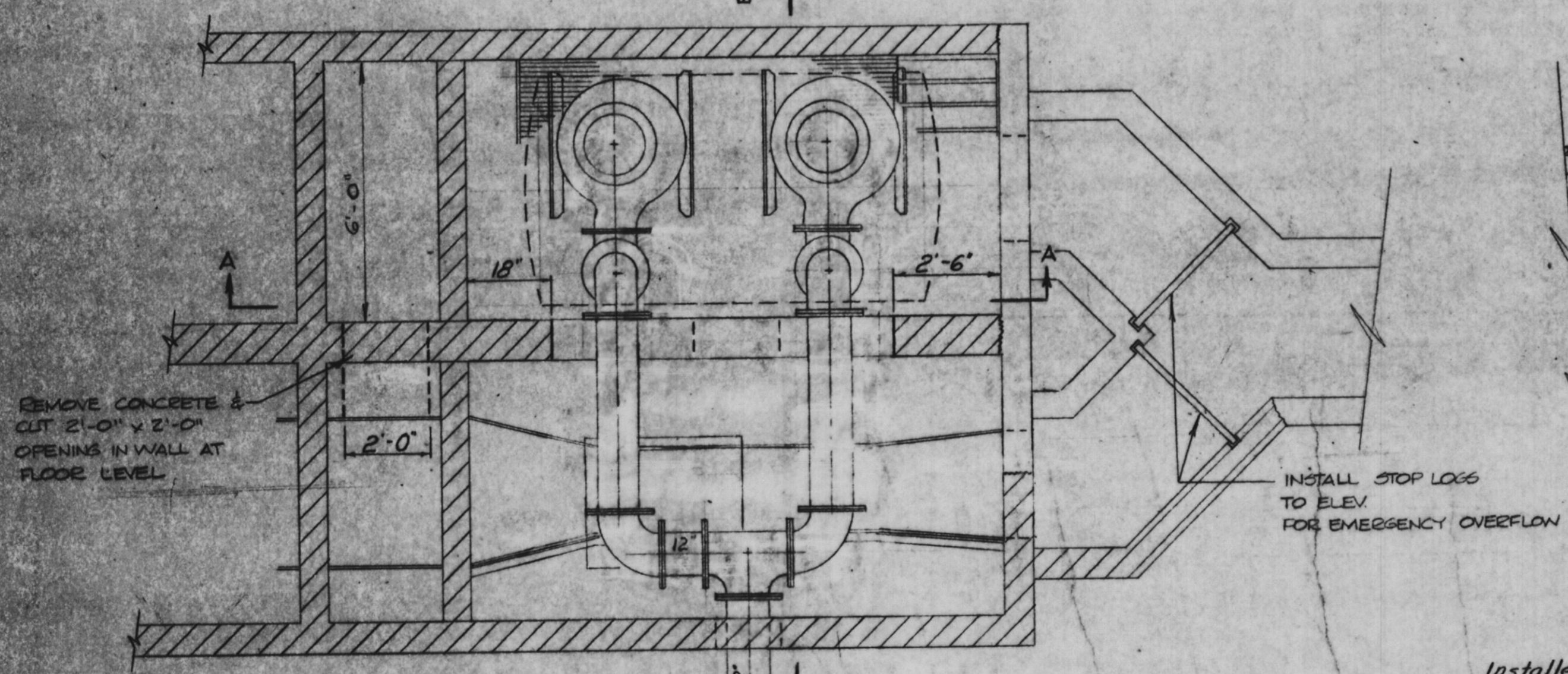


BEARING NORTH WALL END VIEW

END VIEW MIDDLE WALL BEARING

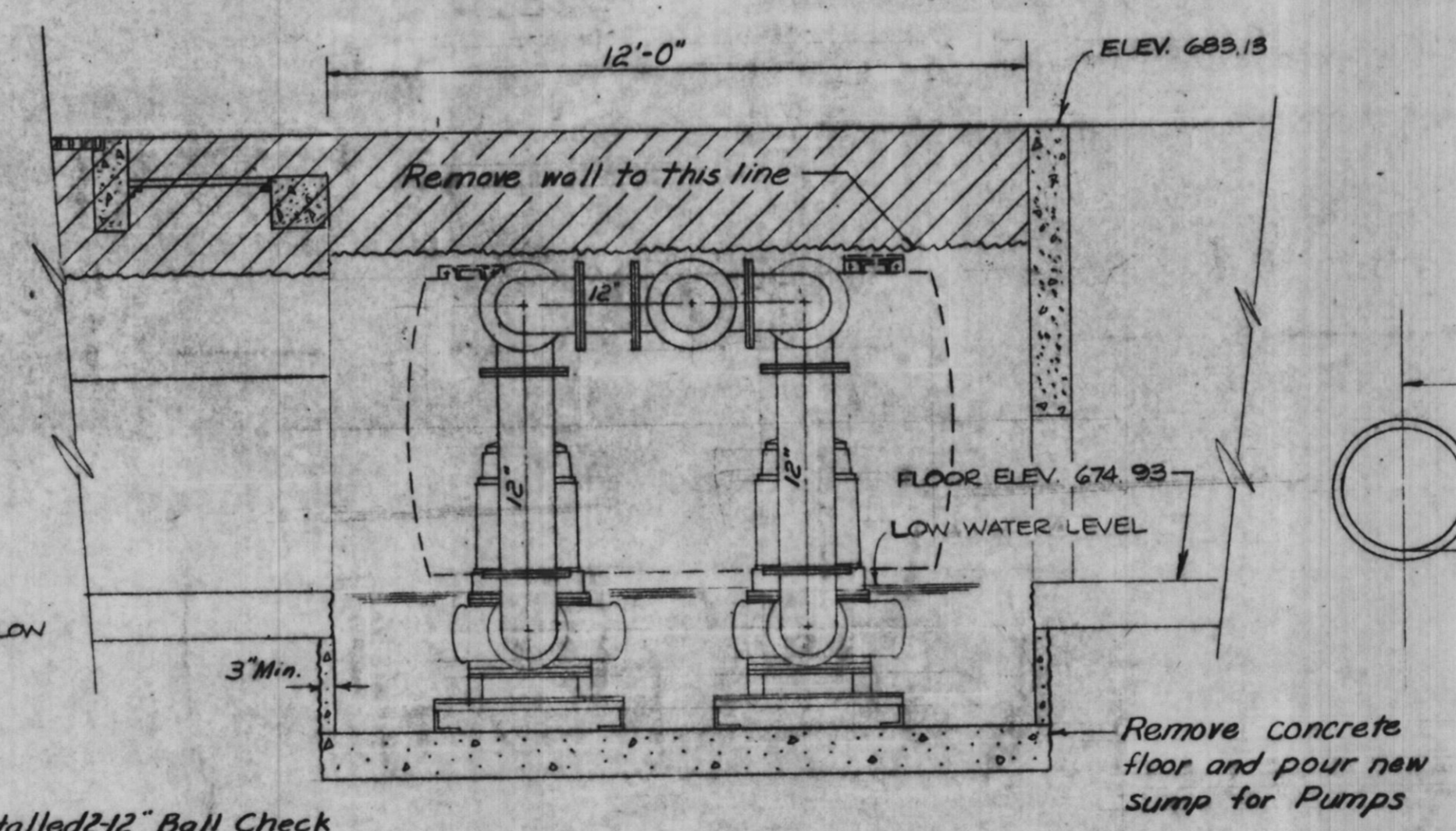
BEAM DETAILS 3/5

Remove Bar Screen, lower  
floor & install 2 - 77 H.P.  
Submersible Pumps



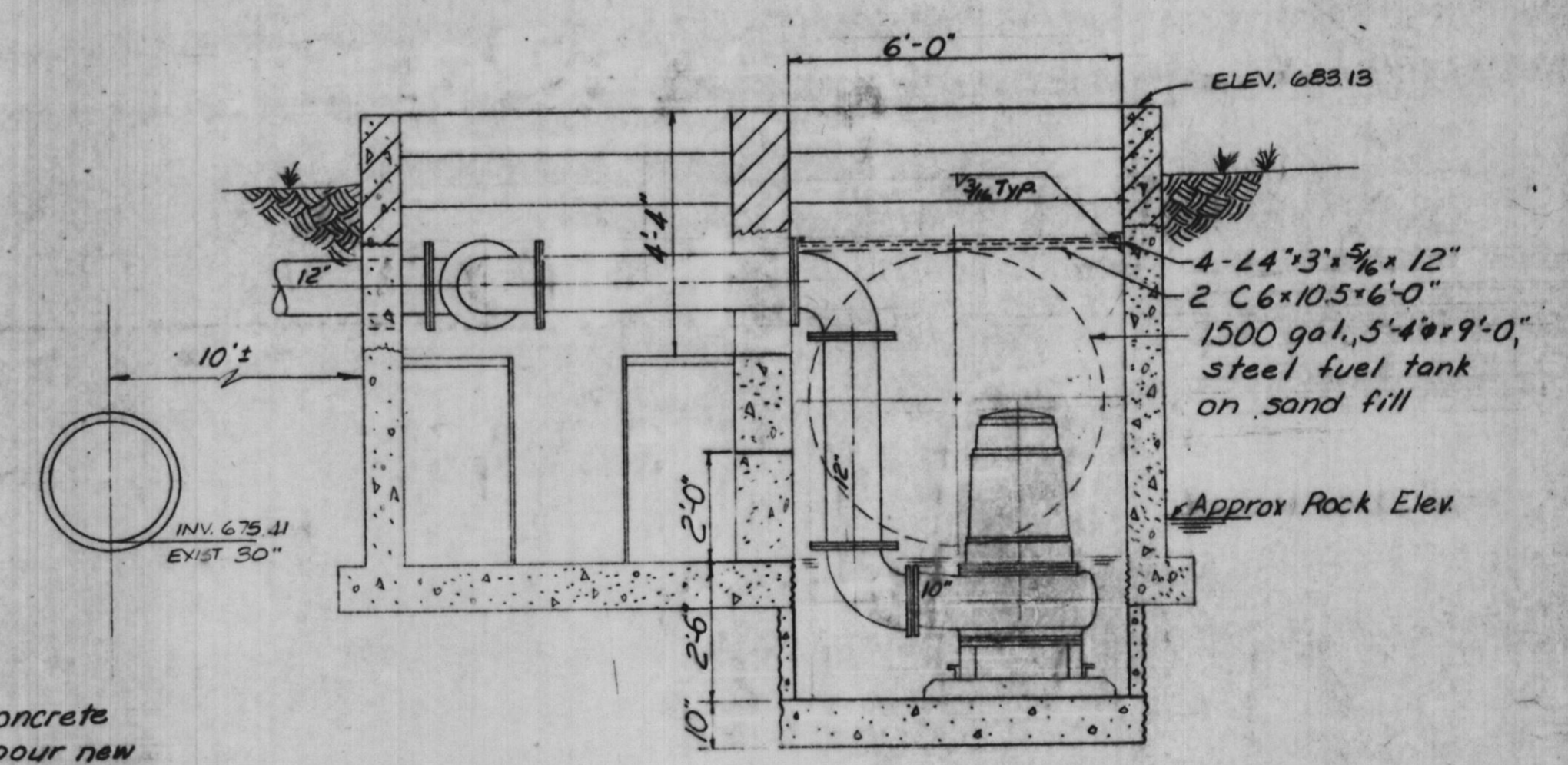
SEE SHEET No. 4  
FOR EXTENSION TO  
EXISTING 16" FORCE MAIN

PLAN



Installed 2-12" Ball Check  
in vertical position  
after 10" x 12" Elbow

SECTION A-A



SECTION B-B

TEMPORARY PUMP INSTALLATION DETAIL

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

"Record Drawing 4-5-83"

PLOTTED BY:	DATE	BY	REVISION DESCRIPTION	DATE	BY	REVISION DESCRIPTION
CHECKED BY:	6-1-82	BMM	Changed W12x26 to W12x22			
DRAWN BY:						
CHECKED BY:						
APPROVED BY:						

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**CITY OF ST. CHARLES**  
**Riverside Pumping Station**  
**TEMPORARY PUMP & STRUCTURAL DETAILS**

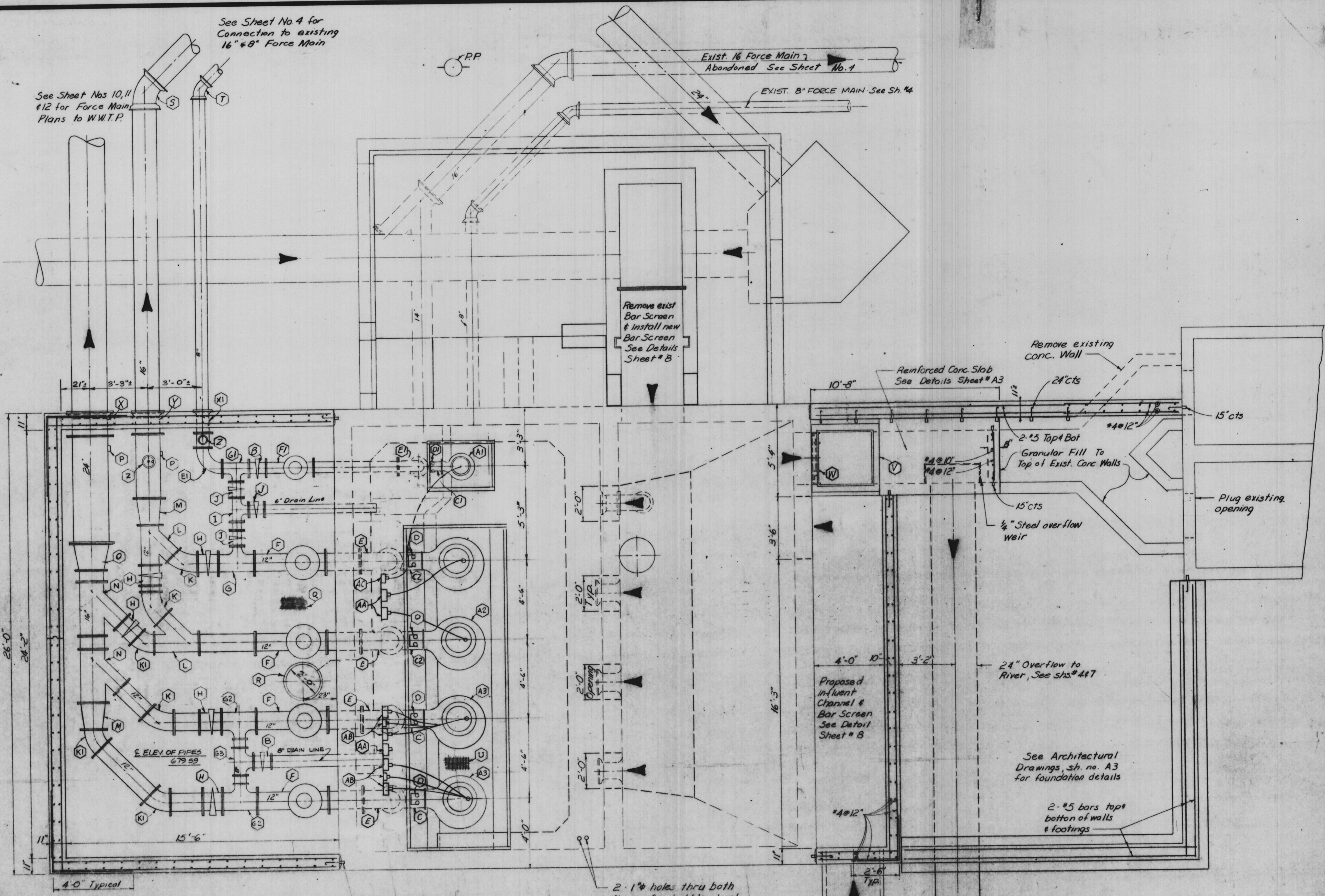
PROJECT NO. 100-048  
 SCALE 3/8" = 1'-0" DATE: 11-13-81  
 SHEET OF  
**5 13**

See Sheet No 4 for Connection to existing 16" x 8" Force Main

See Sheet Nos 10, 11 & 12 for Force Main Plans to W.W.T.P.

- LEGEND**
- A1 1 - 20 HP SUBMERSIBLE PUMP
  - A2 2 - 77 HP SUBMERSIBLE PUMP
  - A3 2 - 180 HP SUBMERSIBLE PUMP
  - B 2 - 8" BALLCENTRIC VALVES
  - C 2 - 12" CAST IRON DISCHARGE FLANGE
  - C1 1 - 6" CAST IRON DISCHARGE FLANGE
  - D 4 - 3" DIA. GUIDE PIPES
  - D1 1 - 2" DIA. GUIDE PIPES
  - E 4 - 12" 90° LONG RADIUS ELBOW
  - E1 2 - 12" 90° LONG RADIUS ELBOW
  - E2 1 - 6" 90° LONG RADIUS ELBOW
  - F 4 - 12" BALL TYPE CHECK VALVE
  - F1 1 - 8" BALL TYPE CHECK VALVE
  - G 1 - 12" x 6" TEE
  - G1 1 - 8" x 6" TEE
  - G2 2 - 12" x 8" TEE
  - G3 1 - 8" x 8" TEE
  - H 5 - 12" BALLCENTRIC VALVE
  - I 1 - 6" x 6" TEE
  - J 3 - 6" BALLCENTRIC VALVE
  - K 3 - 12" 45° LONG RADIUS ELBOWS
  - K1 3 - 12" 45° SHORT RADIUS ELBOWS
  - L 2 - 12" x 12" x 12" LATERALS
  - N 2 - 12" x 16" INCREASER
  - N1 2 - 16" x 16" x 12" LATERALS
  - O 1 - 18" x 24" INCREASER
  - P 2 - ULTRA SONIC FLOW SENSORS
  - Q 12 - 4'-0" x 2'-0" ALUMINUM GRATES
  - R 1 - 1/2 HP SUBMERSIBLE SUMP PUMP WITH 2" DISCHARGE PIPING AND CHECK VALVE (SEE DETAIL SHEET #7)
  - S 4 - 15" 45° ELBOW, M3 & M7
  - T 4 - 8" 45° ELBOW, M3 & M7
  - U 12 - 5'-6" x 2'-0" ALUMINUM GRATES
  - V 1 - 3'-0" x 3'-0" CAST IRON MANHOLE FRAME & SOLID LID, NOT HINGED
  - W 1 - INTERNAL 24" DIA. AUTOMATIC DRAINAGE CASE FURNISHED BY CITY OF ST. CHARLES
  - X 1 - 24" CAST IRON WALL PIPE, M3 & FL
  - X1 1 - 8" CAST IRON WALL PIPE, M3 & FL
  - Y 1 - 16" CAST IRON WALL PIPE, M3 & FL
  - Z 2 - 2" SEWAGE AIR RELEASE VALVE
  - AA 2 - DISCONNECT PLUGS FOR 77 HP SUBMERSIBLE PUMPS
  - AB 4 - DISCONNECT PLUGS FOR 180 HP SUBMERSIBLE PUMPS
  - AC 1 - DISCONNECT PLUG FOR 20 HP SUBMERSIBLE PUMP

C2 - 2 10" x 12" C.I. Discharge Flange



**NOTE**  
Install cast iron valve handhole frames & lid in floor slab over each eccentric valve required

3/4" x 9" Expansion Bolts & self-drilling expansion anchors. Typical where new walls & floors connect to existing building, @ 15' cts.

**PLAN**

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

"Record Drawing" 4-8-83

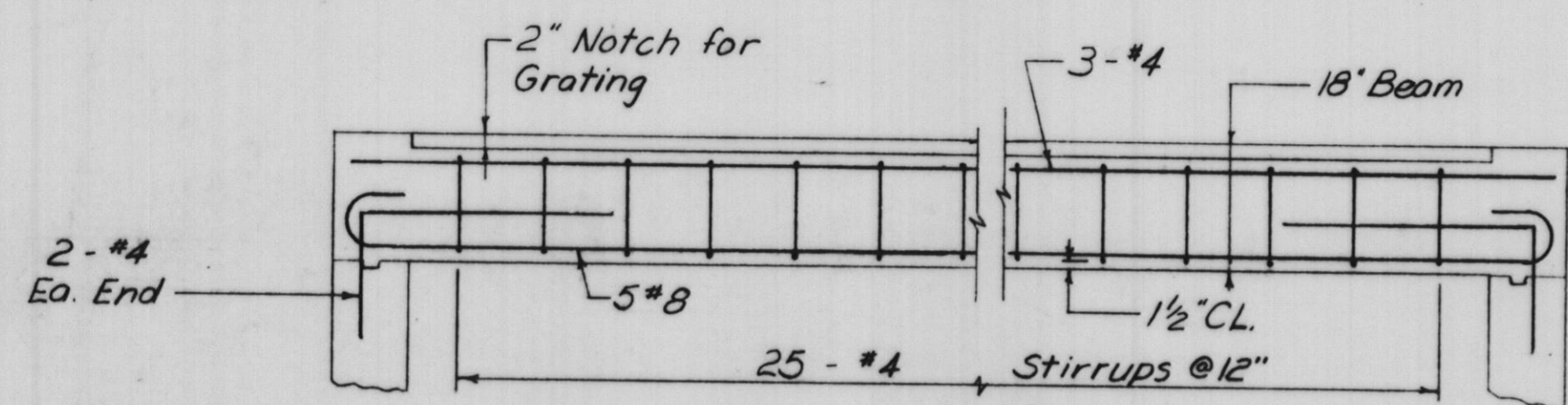
DATE	BY	REVISION DESCRIPTION	DATE	BY	REVISION DESCRIPTION
1-17-81	BW	Item AA & AB			
2-16-82	KL	ADD 20 HP PUMP, 8" FORCE MAIN			
6-1-82	BEW	Changed Location of 20 HP PUMP			



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ST. CHARLES, EAST DUNDEE & AURORA, ILLINOIS

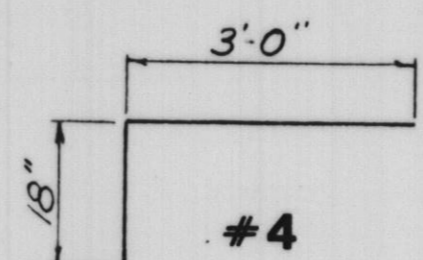
**CITY OF ST. CHARLES**  
Riverside Pumping Station  
**PLAN of PROPOSED IMPROVEMENTS**

PROJECT NO. 100-048
SCALE: 3/8" = 1'-0" DATE: 11-13-81
SHEET OF 6 13

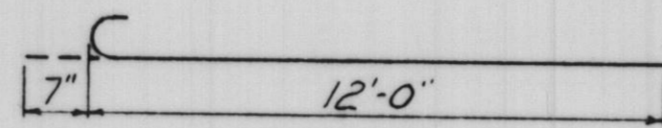


**ELEVATION OF BEAM**

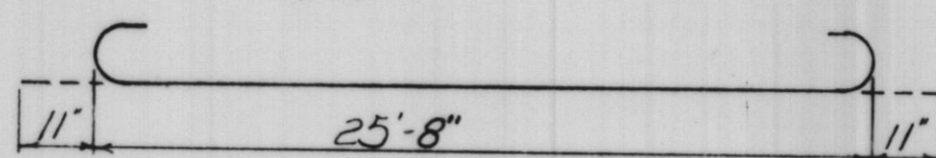
No Scale



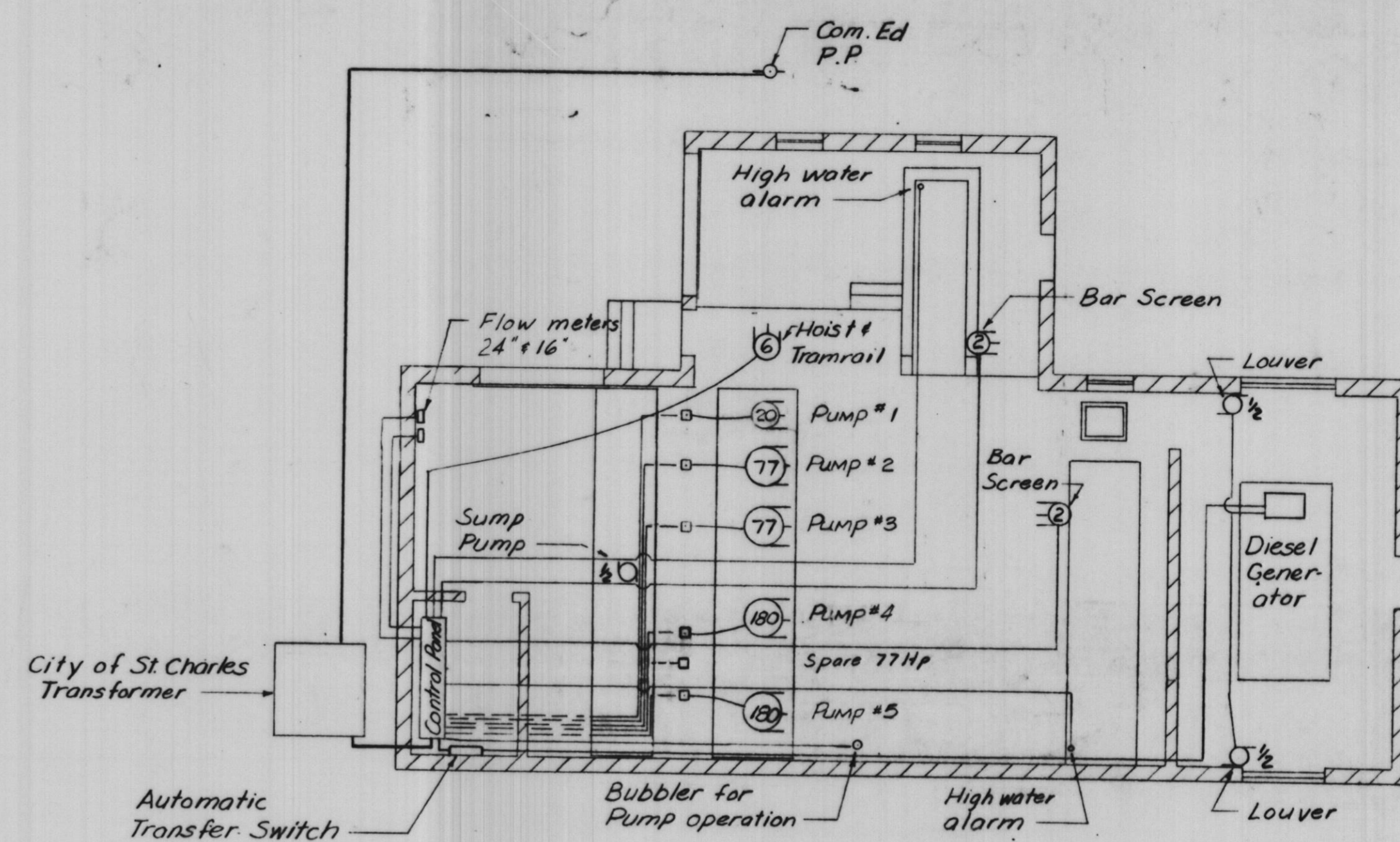
**#4 Stirrup**



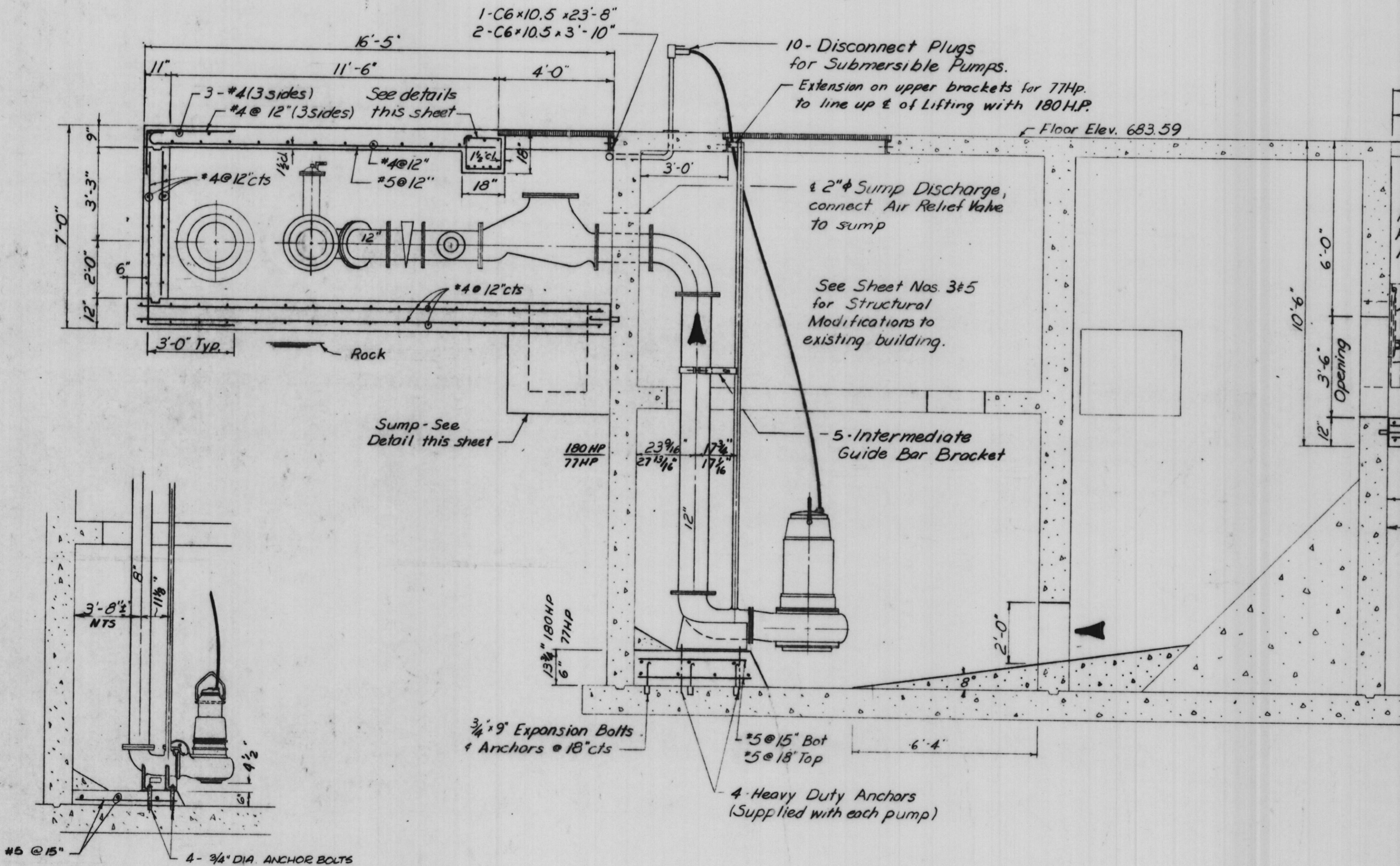
**#5**



**#8**

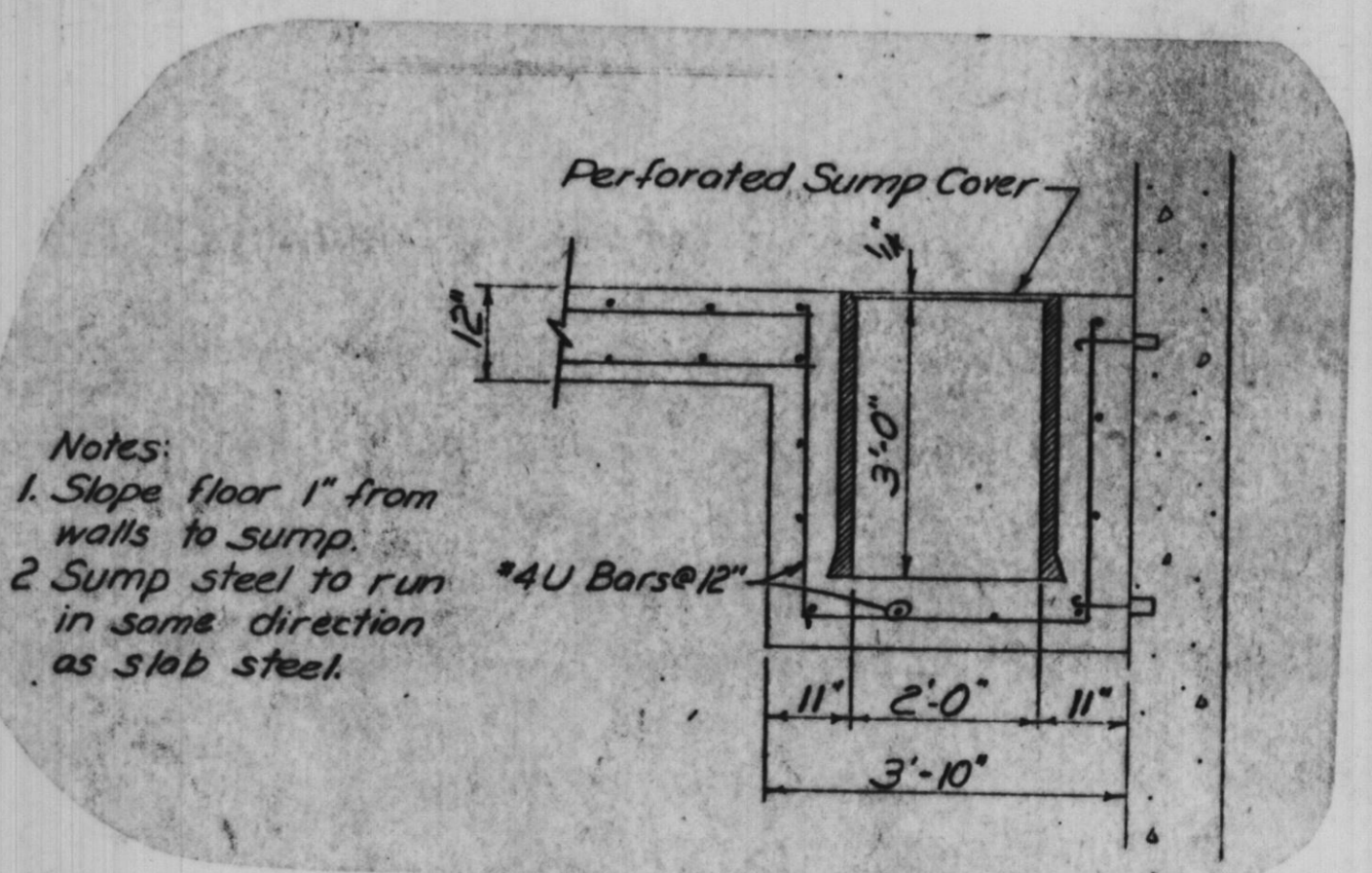
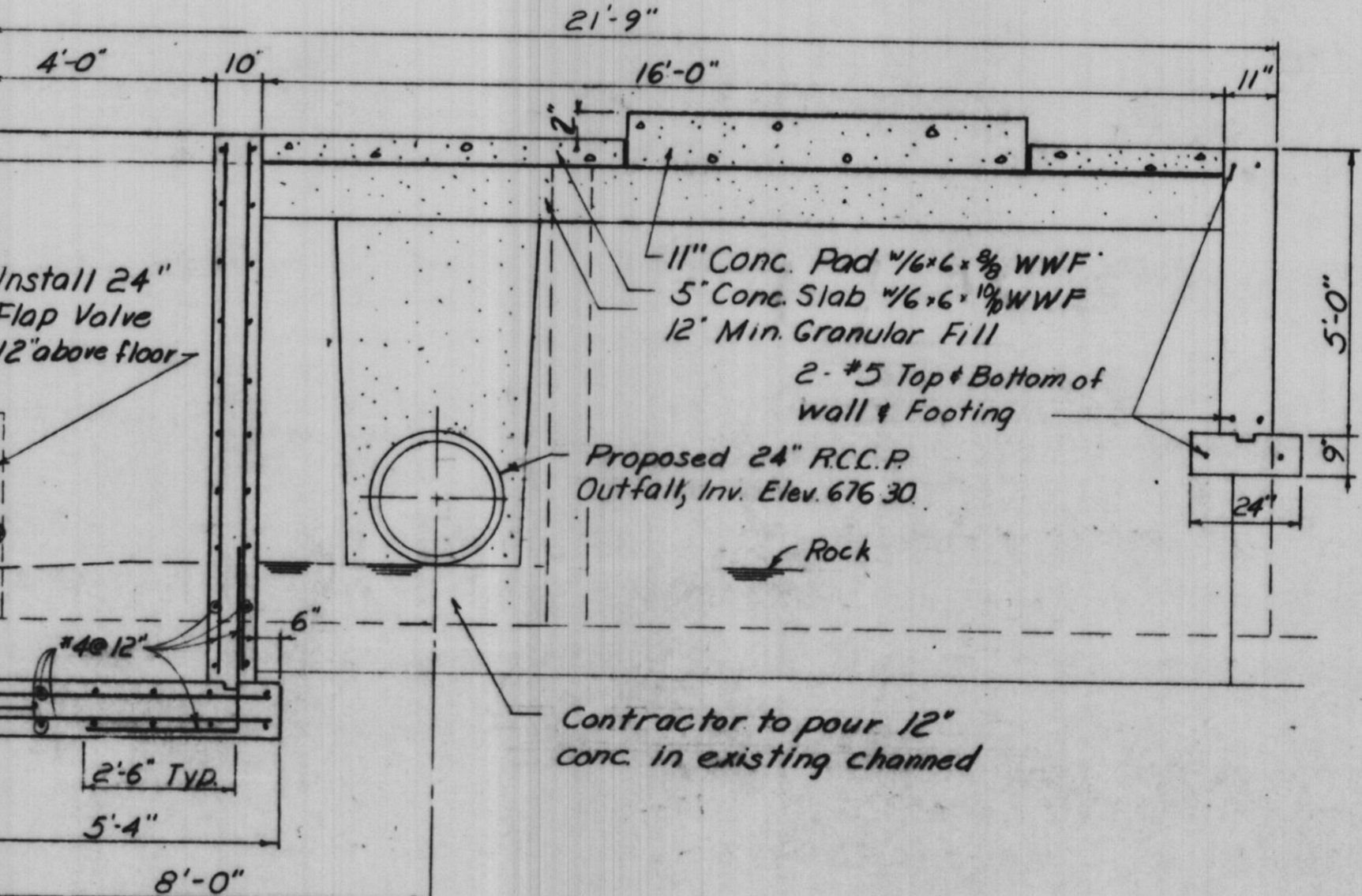


**ELECTRICAL PLAN**



**SECTION**

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



**SUMP DETAIL**

No Scale

- Notes:
1. Slope floor 1" from walls to sump.
  2. Sump steel to run in same direction as slab steel.

**20 H.P. SUBMERSIBLE PUMP DETAIL**

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

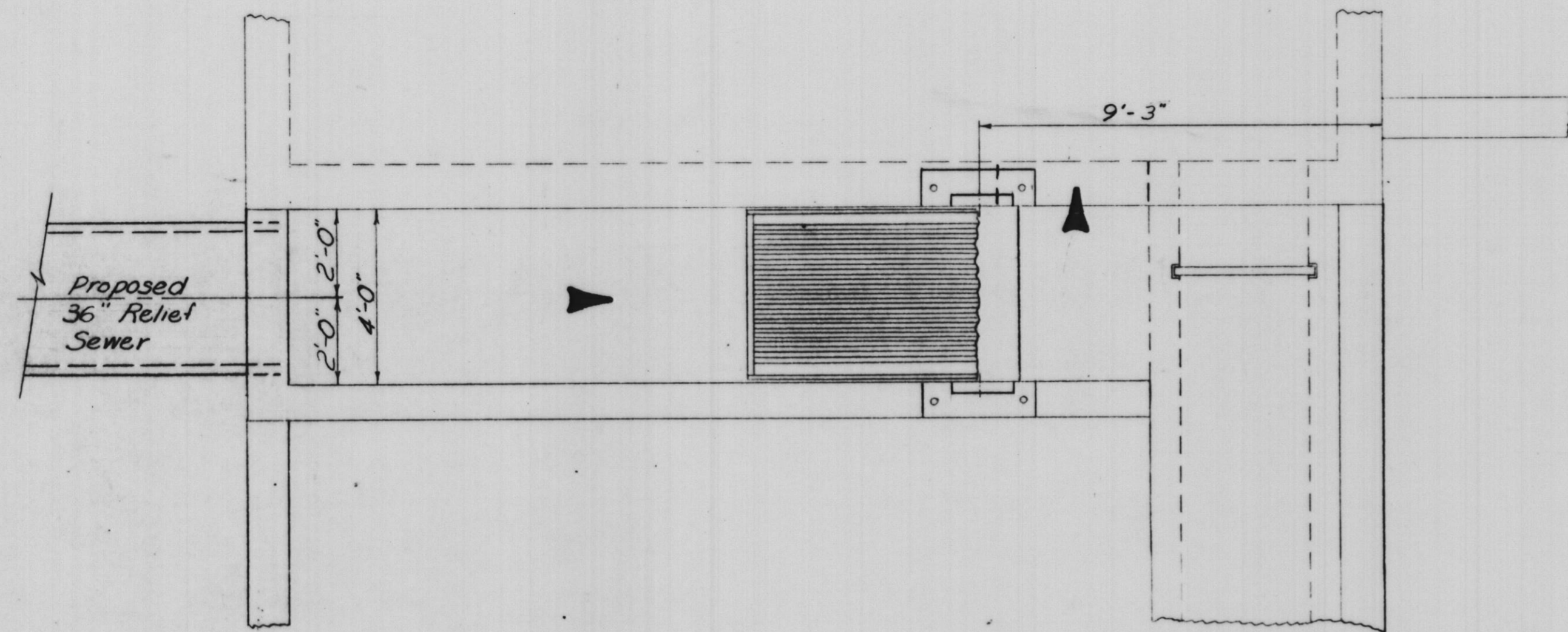
PLOTTED BY:	DATE	BY	REVISION DESCRIPTION	DATE	BY	REVISION DESCRIPTION
CHECKED BY:	10-1-81	BEW	Slab Reinf over Add. Tran			
DRAWN BY:	2-16-82	KL	ADD 20HP SUB. PUMP			
CHECKED BY:	8-10-82	BW	Changed Dimension of 20HP Pump			
APPROVED BY:						



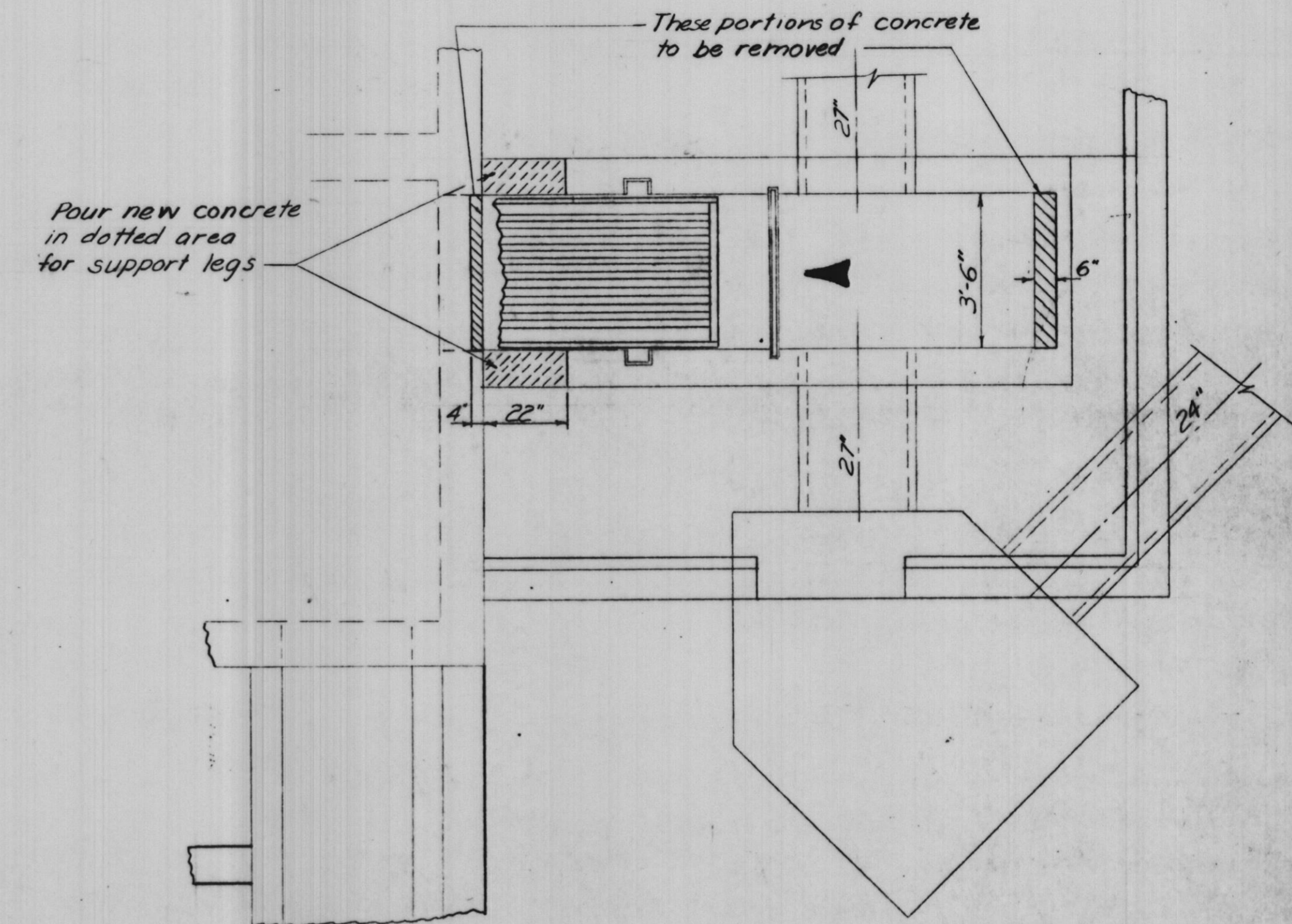
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CONSULTING ENGINEERS  
ST. CHARLES, EAST DUNDEE & AURORA, ILLINOIS

**CITY OF ST. CHARLES**  
Riverside Pumping Station  
**SECTION OF PROPOSED IMPROVEMENTS**

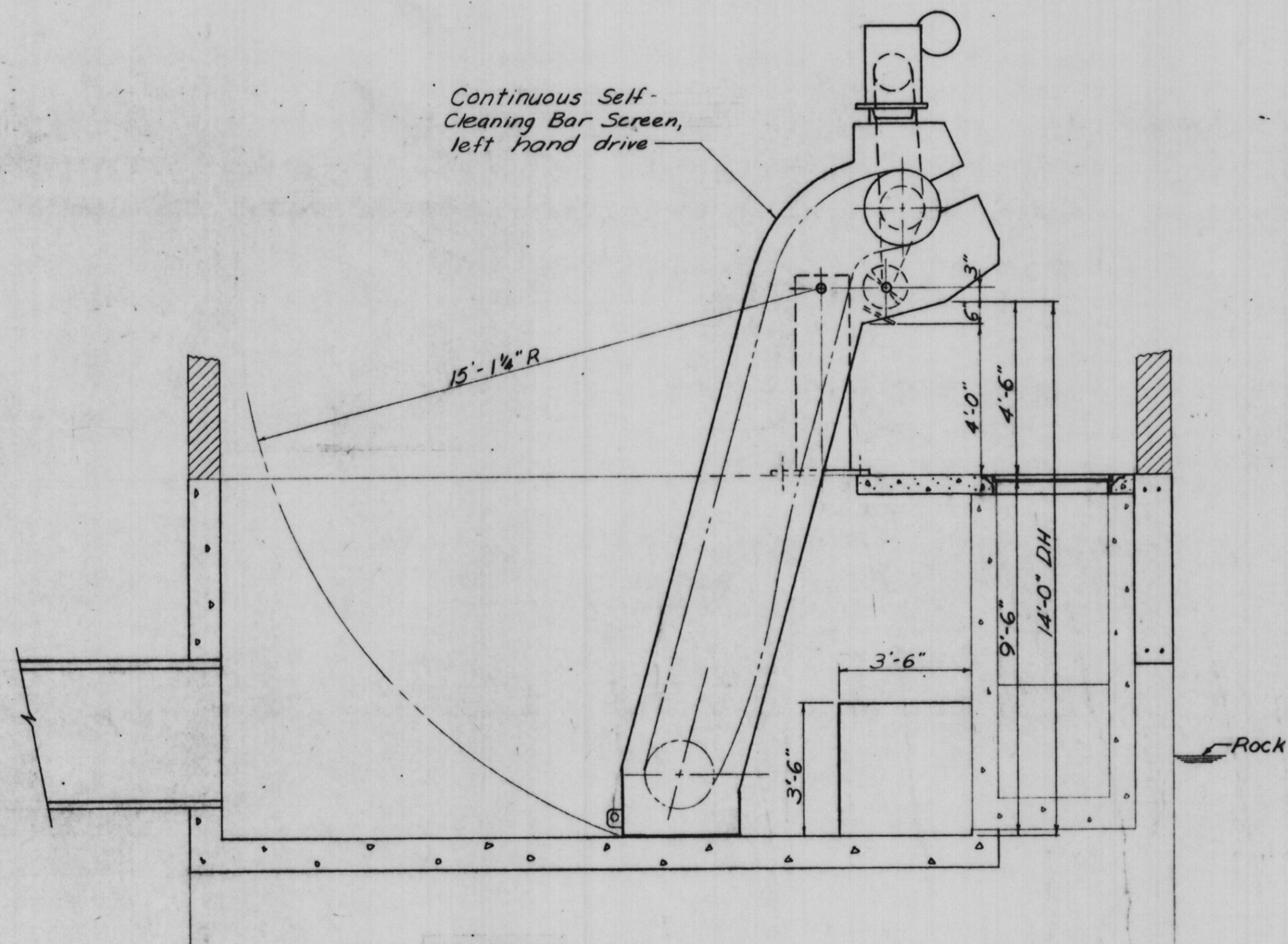
"Record Drawing 4-8-83"  
PROJECT NO. 100-048  
SCALE: 3/8"=1'-0" DATE: 11-13-81  
SHEET OF 13



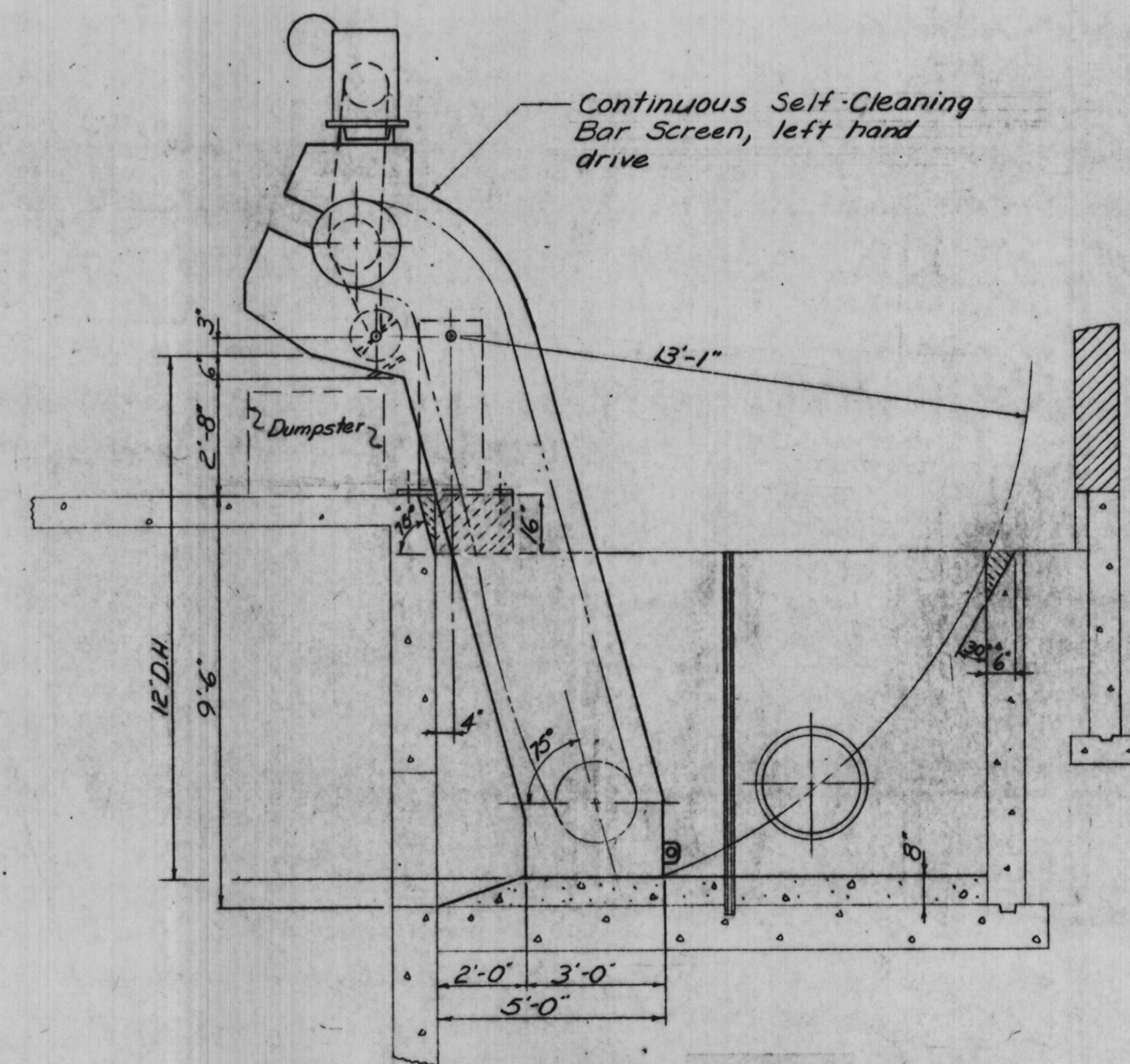
PLAN



PLAN



SECTION



SECTION

**BAR SCREENS DETAILS**

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

"Record Drawing"

PLOTTED BY:	DATE	BY	REVISION DESCRIPTION	DATE	BY	REVISION DESCRIPTION
CHECKED BY:						
DRAWN BY:						
CHECKED BY:						
APPROVED BY:						

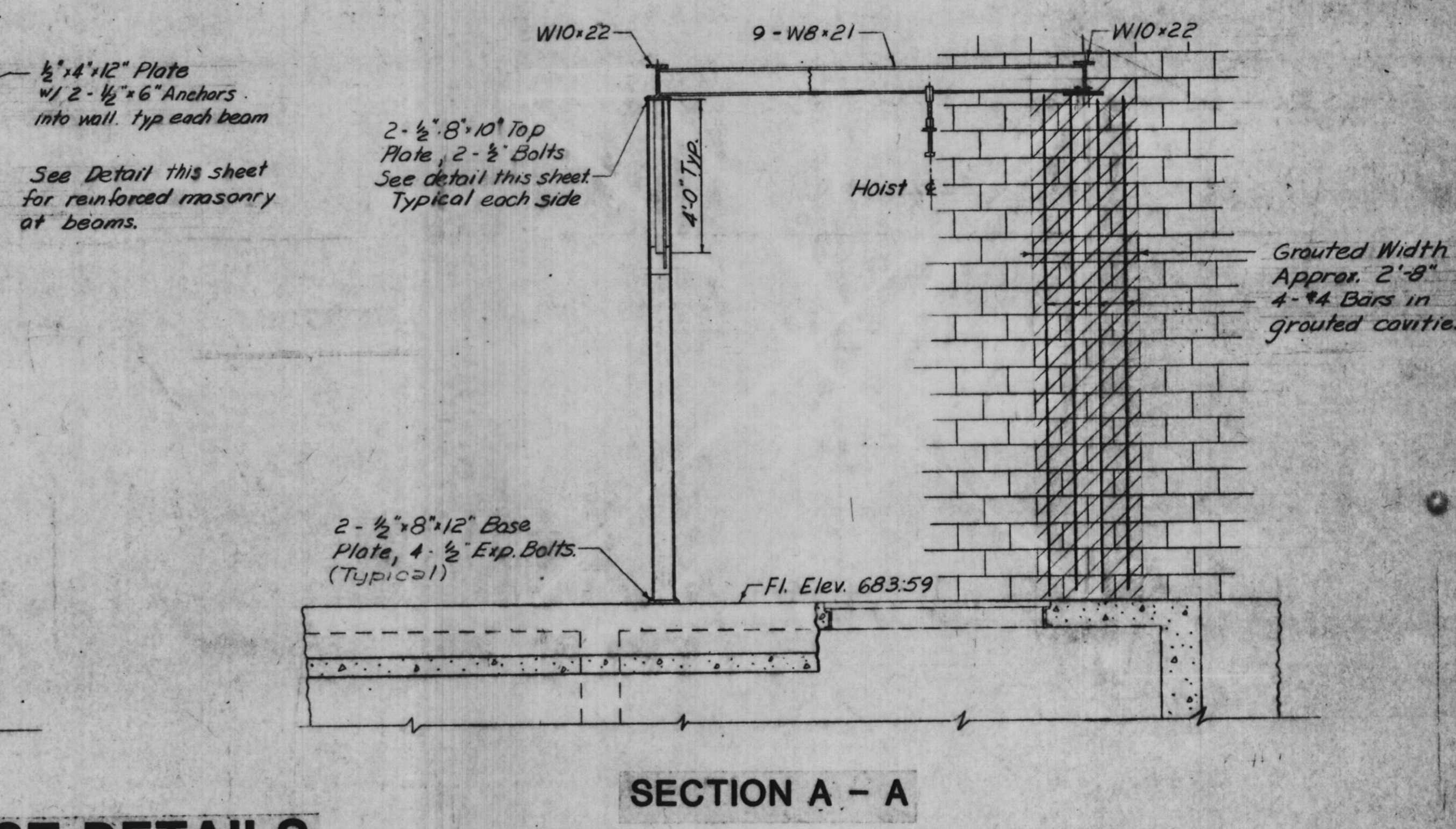
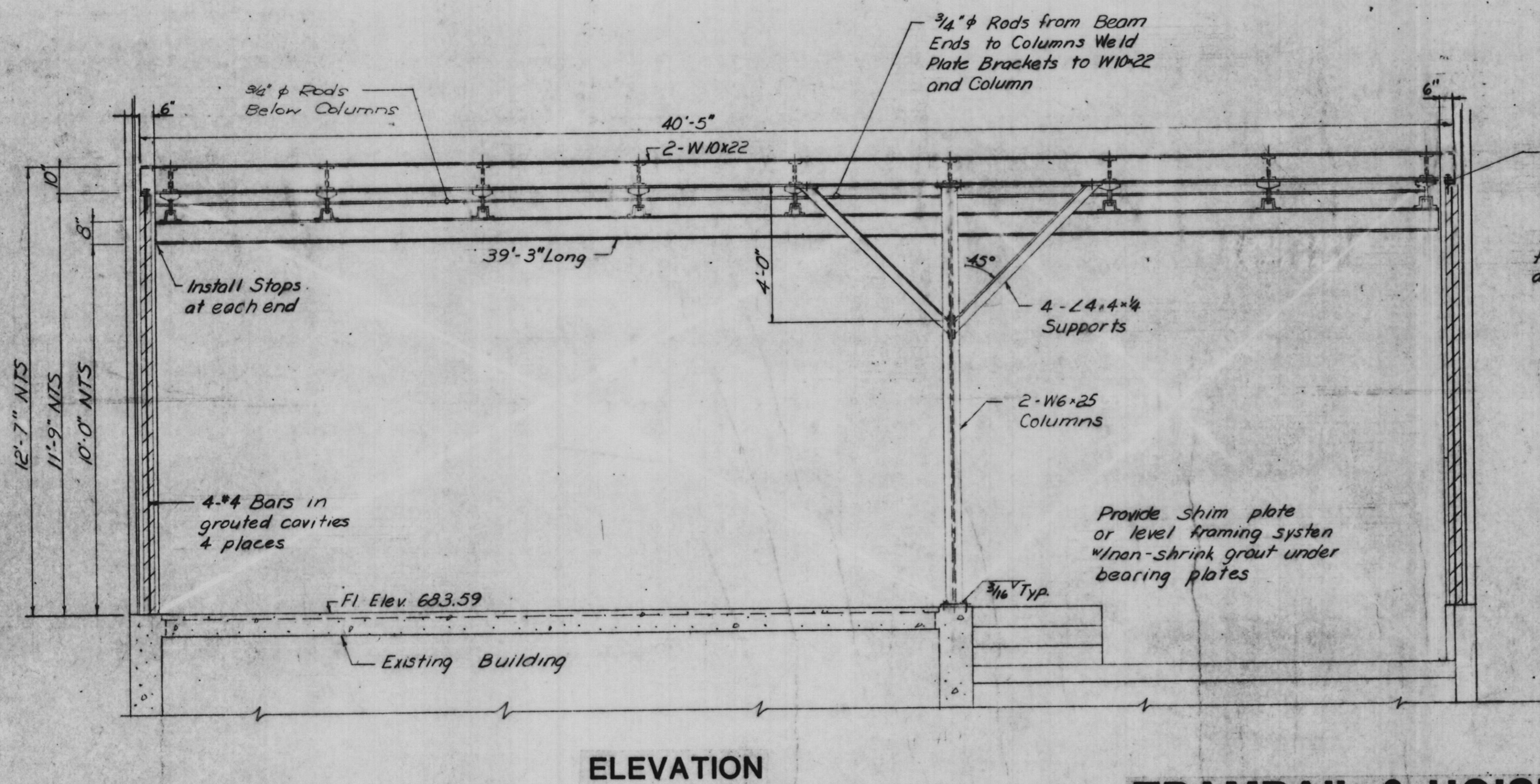
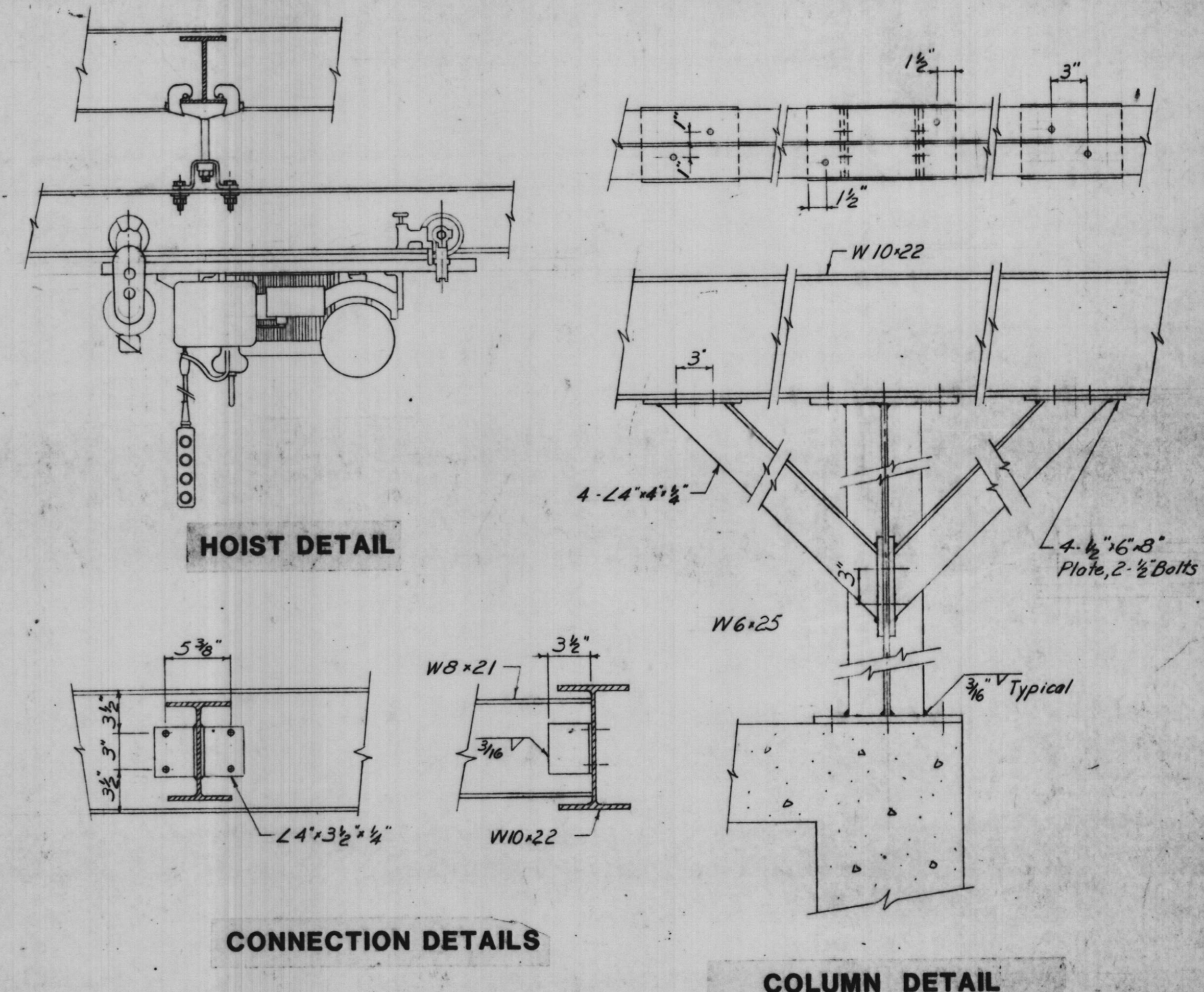
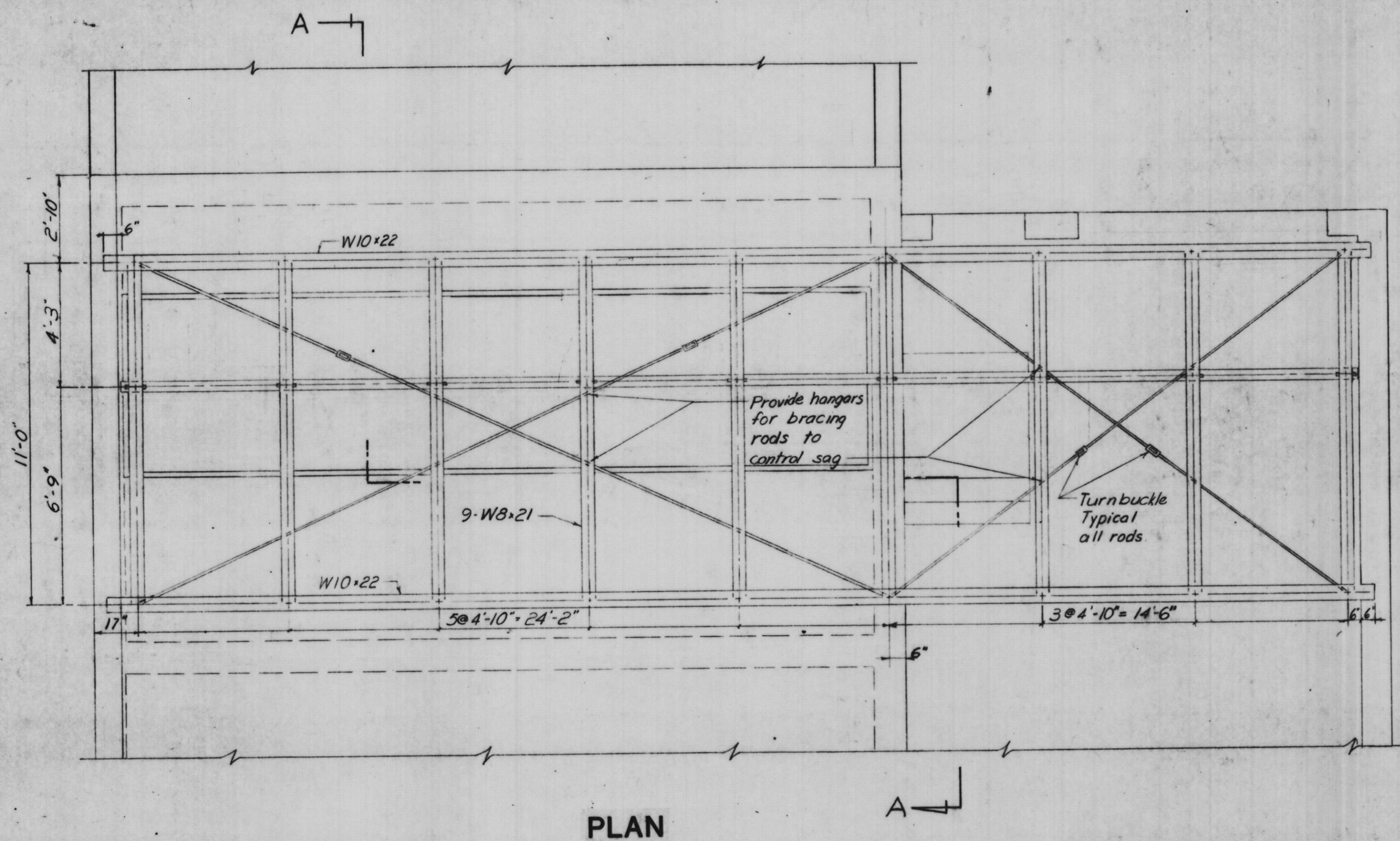


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**CONSULTING ENGINEERS**  
 ST. CHARLES, EAST DUNDEE & AURORA, ILLINOIS

**CITY OF ST. CHARLES**  
**Riverside Pumping Station**  
**BAR SCREEN DETAILS**

PROJECT NO. 100-048  
 SCALE 3/8"=1'-0" DATE: 11-13-81  
 SHEET OF  
**8 13**





**TRAMRAIL & HOIST DETAILS**

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

Record Drawing

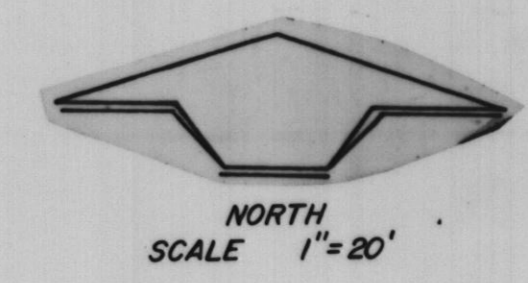
DATE	BY	REVISION DESCRIPTION	DATE	BY	REVISION DESCRIPTION
6-1-82	BEV	Changed Location of Tramrail			



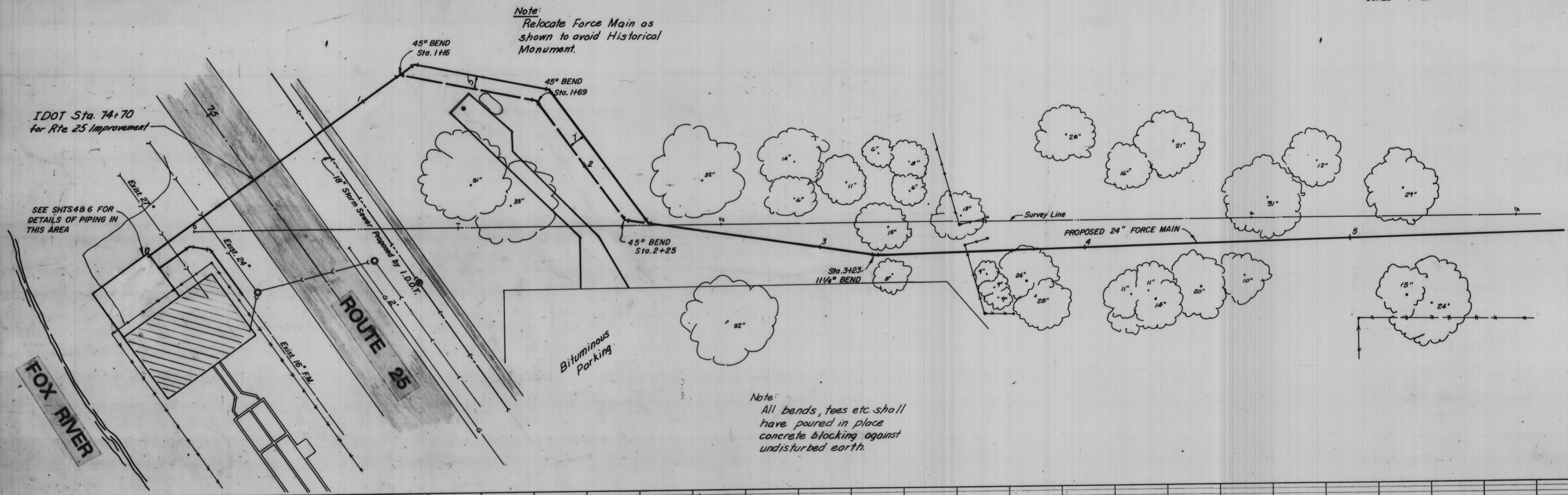
**ROBERT H. ANDERSON & ASSOCIATES, INC.**  
**CONSULTING ENGINEERS**  
 ST. CHARLES, EAST DUNDEE & AURORA, ILLINOIS

**CITY OF ST. CHARLES**  
**Riverside Pumping Station**  
**TRAMRAIL & HOIST**

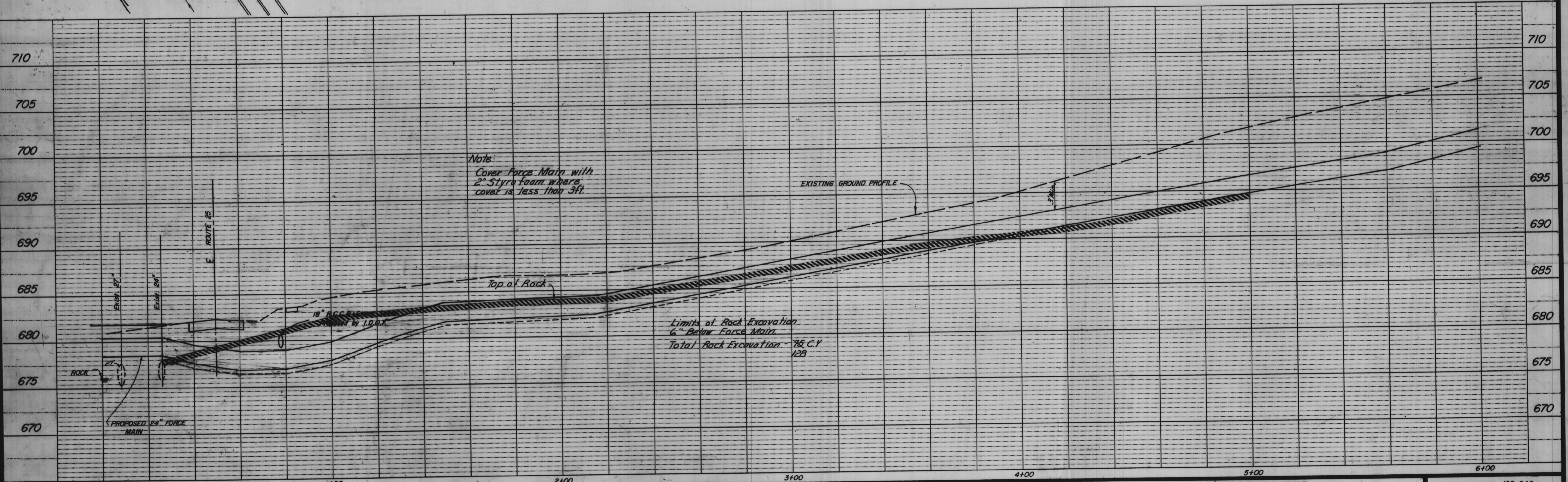
PROJECT NO. 100-048  
 SCALE: 3/8"=1'-0" DATE: 11-13-81  
 SHEET OF  
**9 13**



Note:  
Relocate Force Main as shown to avoid Historical Monument.



Note:  
All bends, tees etc shall have poured in place concrete blocking against undisturbed earth.



Note:  
Cover Force Main with 2\"/>

Limits of Rock Excavation  
6\"/>

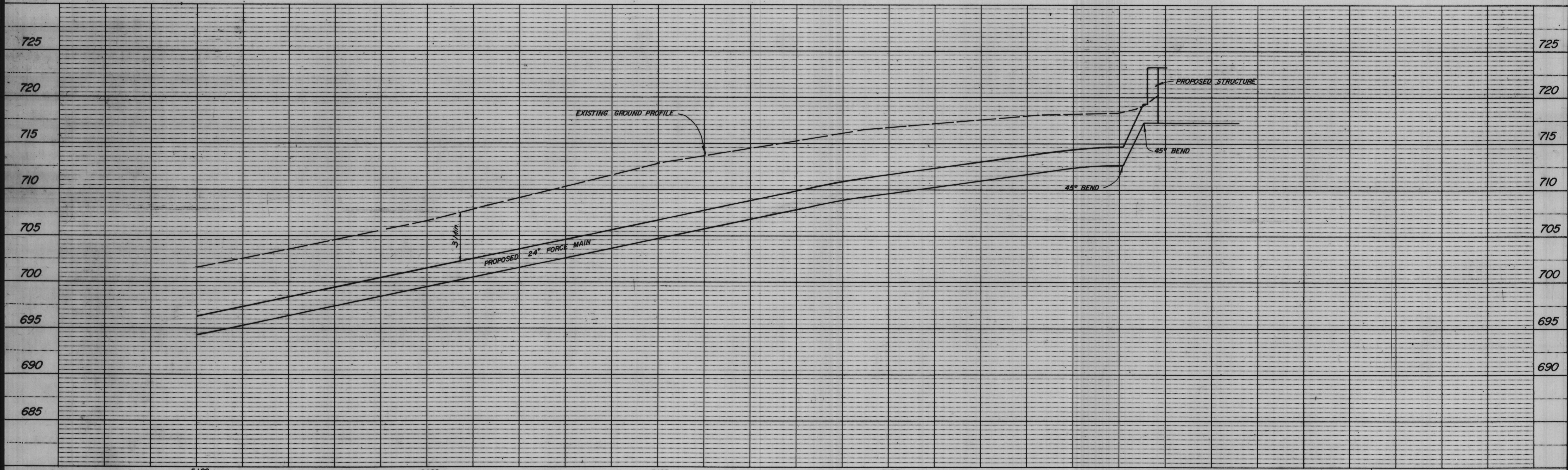
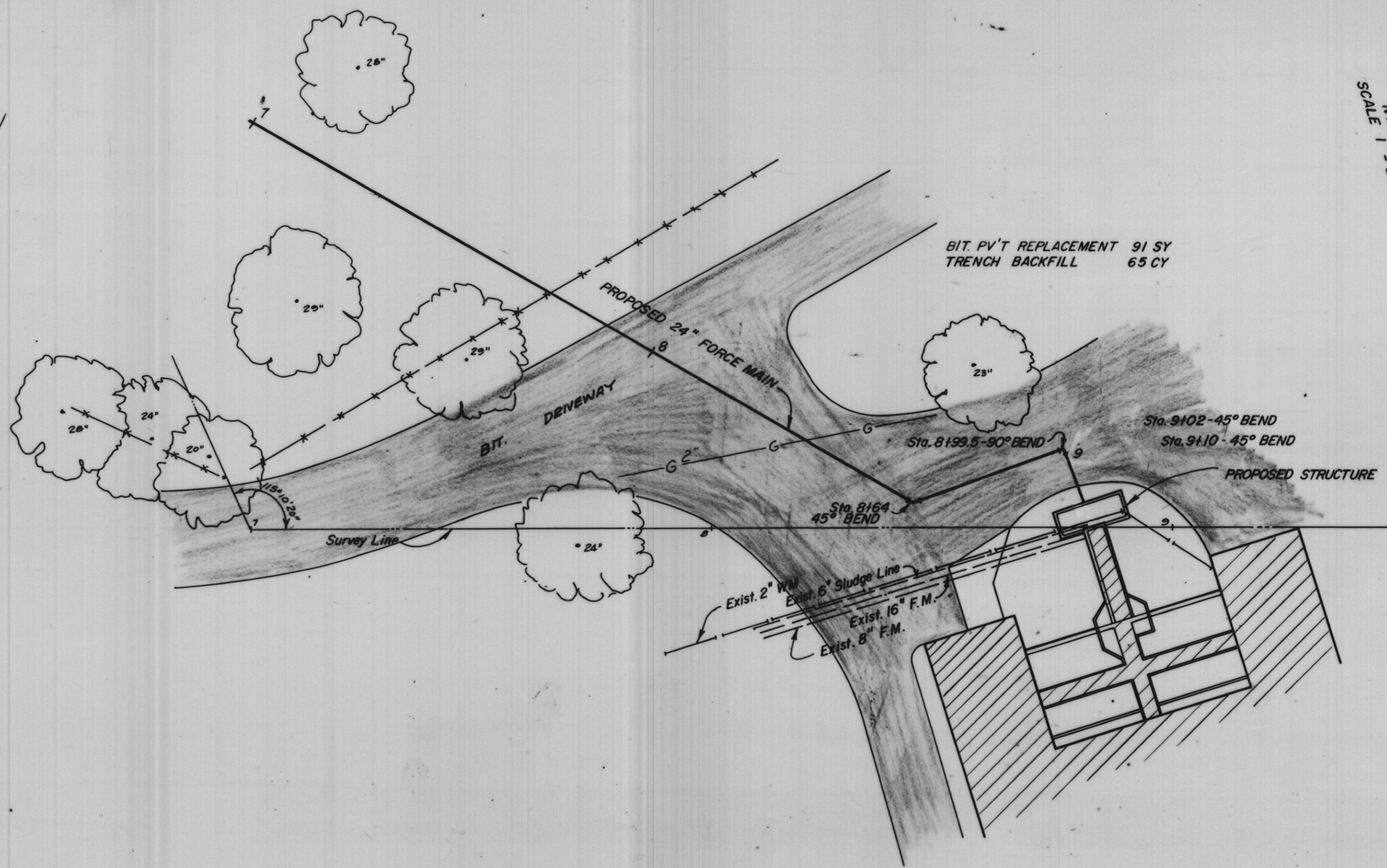
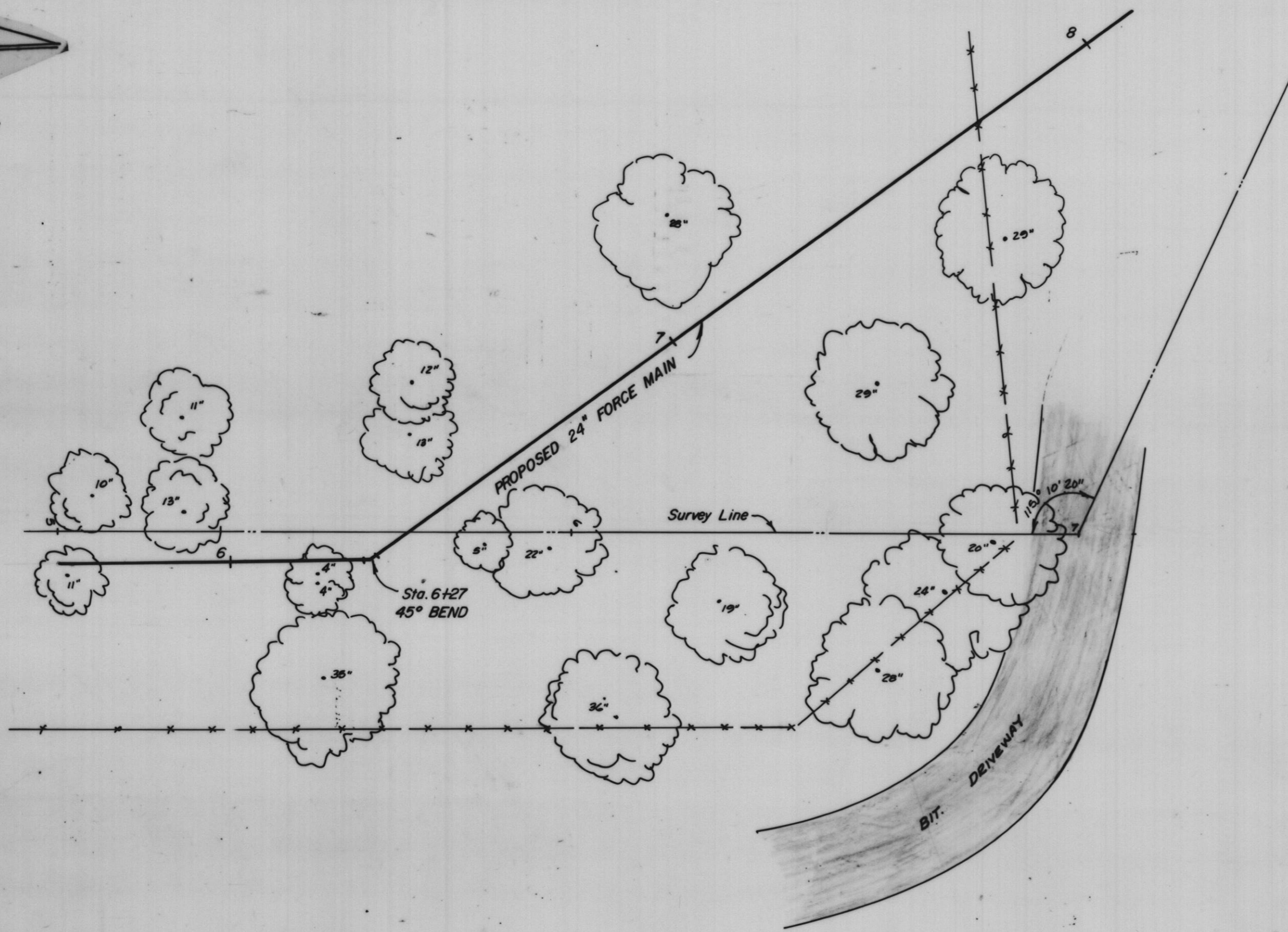
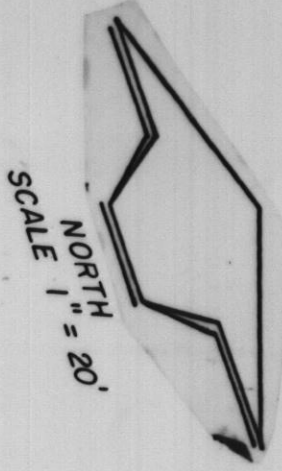
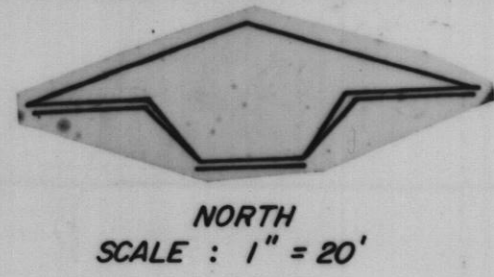
PLOTTED BY:	DATE	BY	REVISION DESCRIPTION	DATE	BY	REVISION DESCRIPTION
CHECKED BY:	9/9/02	LL	Show 18\"/>			
DRAWN BY:	6/20/02	AW	Relocate around Historical Monument & Rock location & excavation			
CHECKED BY:	2/20/03	BEV	"Record Drawings"			
APPROVED BY:						



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CONSULTING ENGINEERS  
ST. CHARLES, EAST DUNDEE & AURORA, ILLINOIS

**CITY OF ST. CHARLES**  
Riverside Pumping Station  
**FORCE MAIN**

PROJECT NO. 100-048  
SCALE: 1"=20' DATE: 11-13-81  
SHEET OF  
**10 13**



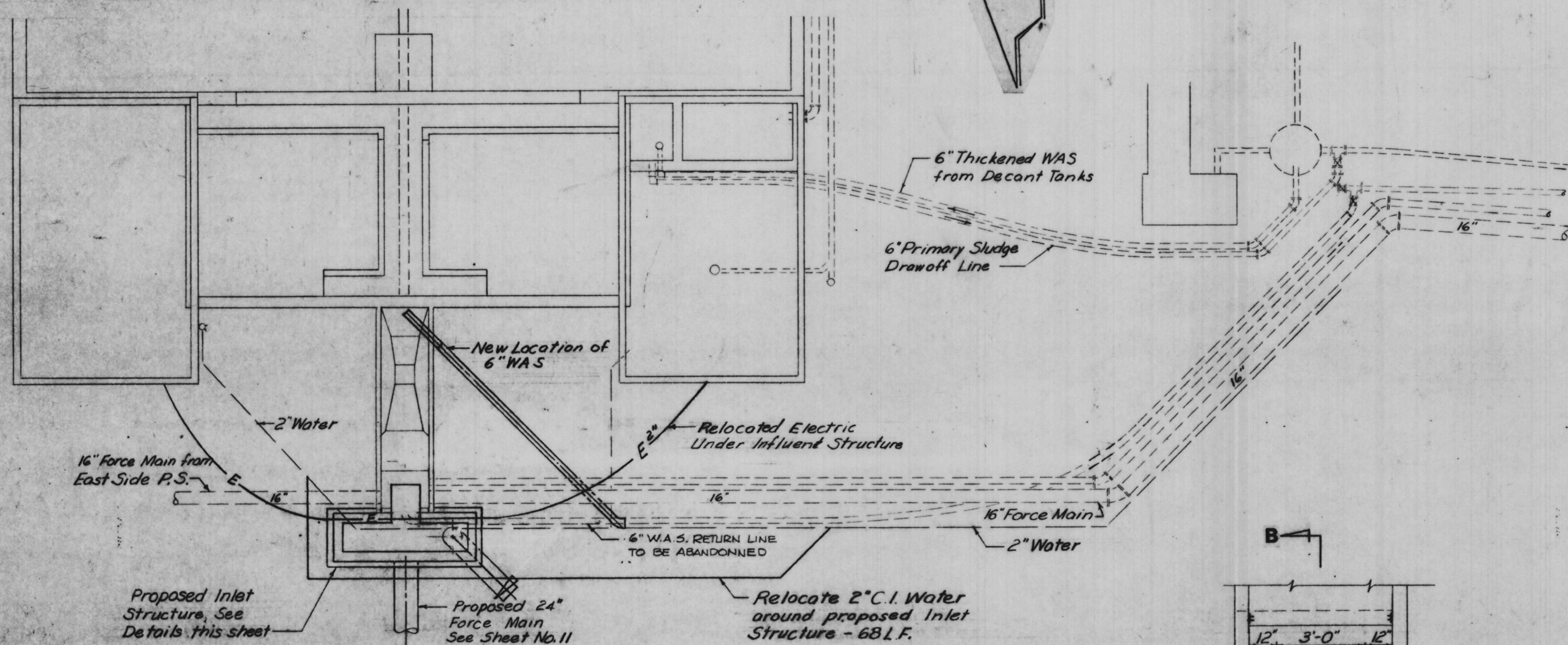
PLOTTED BY:	DATE	BY	REVISION DESCRIPTION	DATE	BY	REVISION DESCRIPTION
CHECKED BY:	2/28/83		Record Drawing			
DRAWN BY:						
CHECKED BY:						
APPROVED BY:						



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**CONSULTING ENGINEERS**  
 ST. CHARLES, EAST DUNDEE & AURORA, ILLINOIS

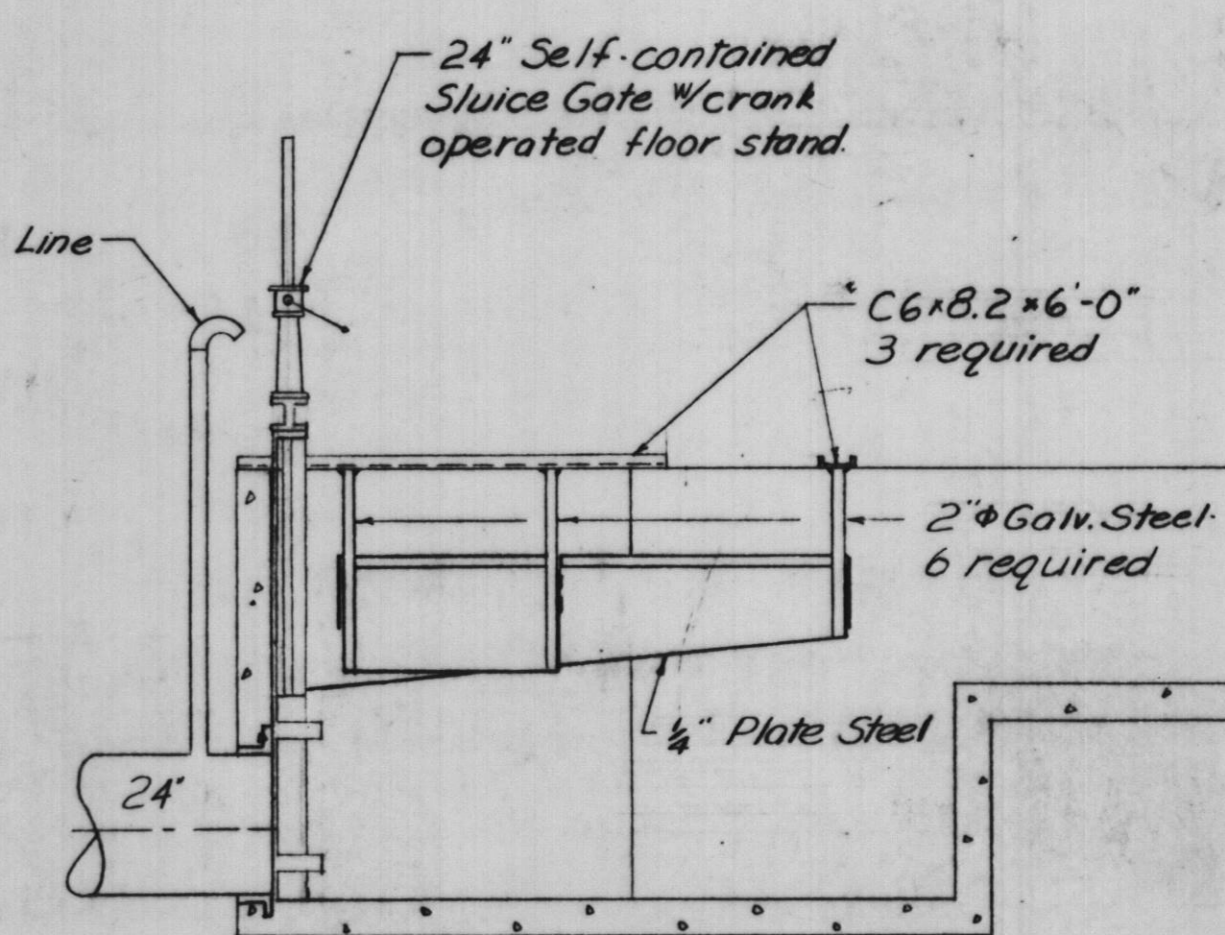
**CITY OF ST. CHARLES**  
**Riverside Pumping Station**  
**FORCE MAIN**

PROJECT NO. 100-048  
 SCALE: 1" = 20' DATE: 11-13-81  
 SHEET 11 OF 13

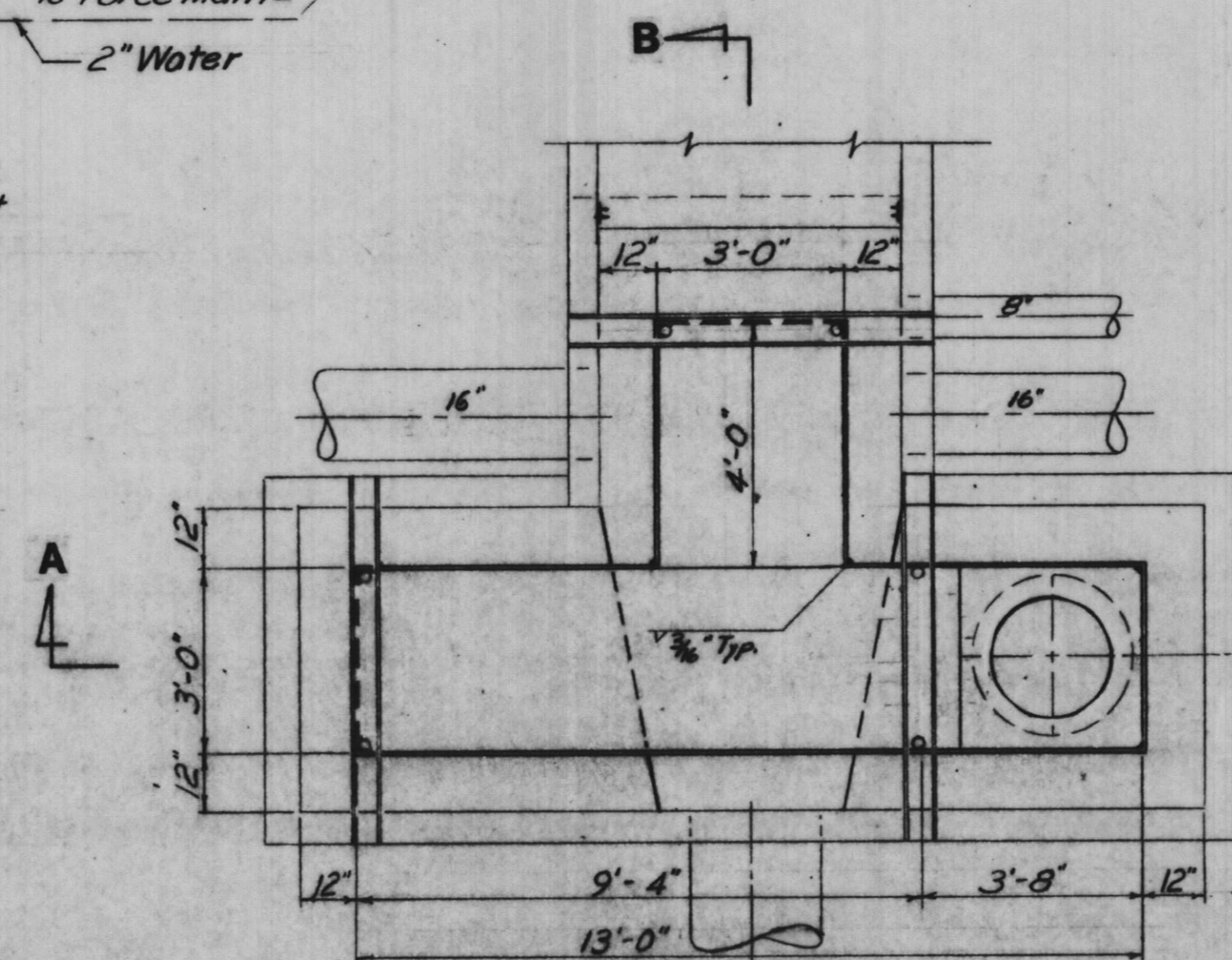


**SITE PLAN**

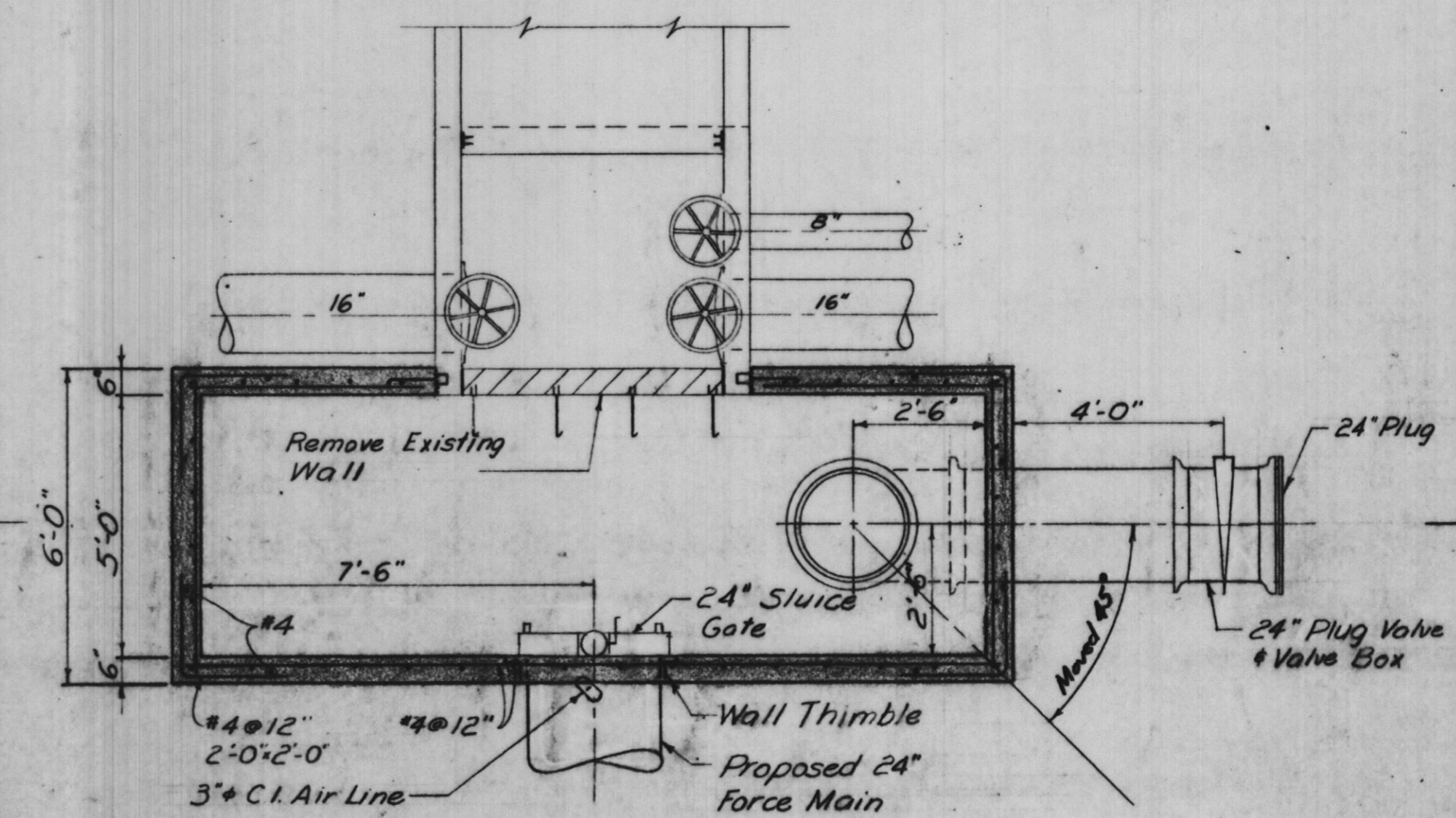
Scale: 1/8"=1'-0"



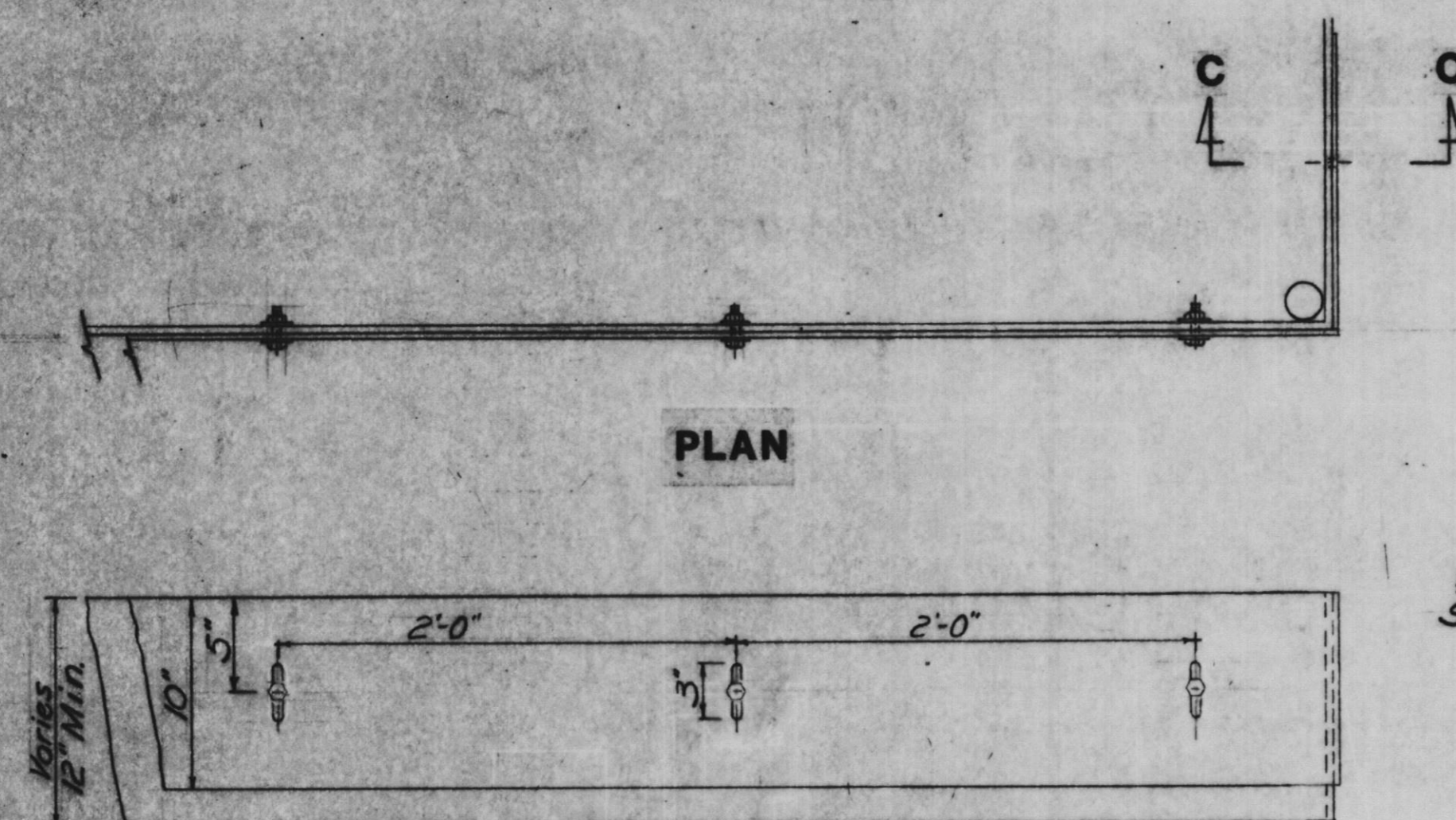
**SECTION B-B**



**PLAN**



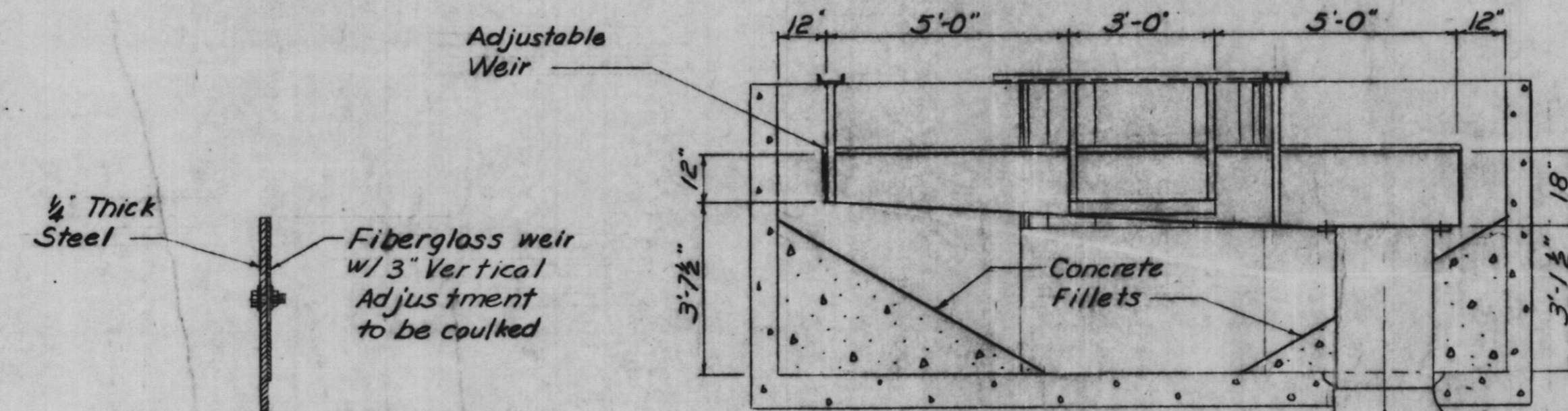
**PLAN**



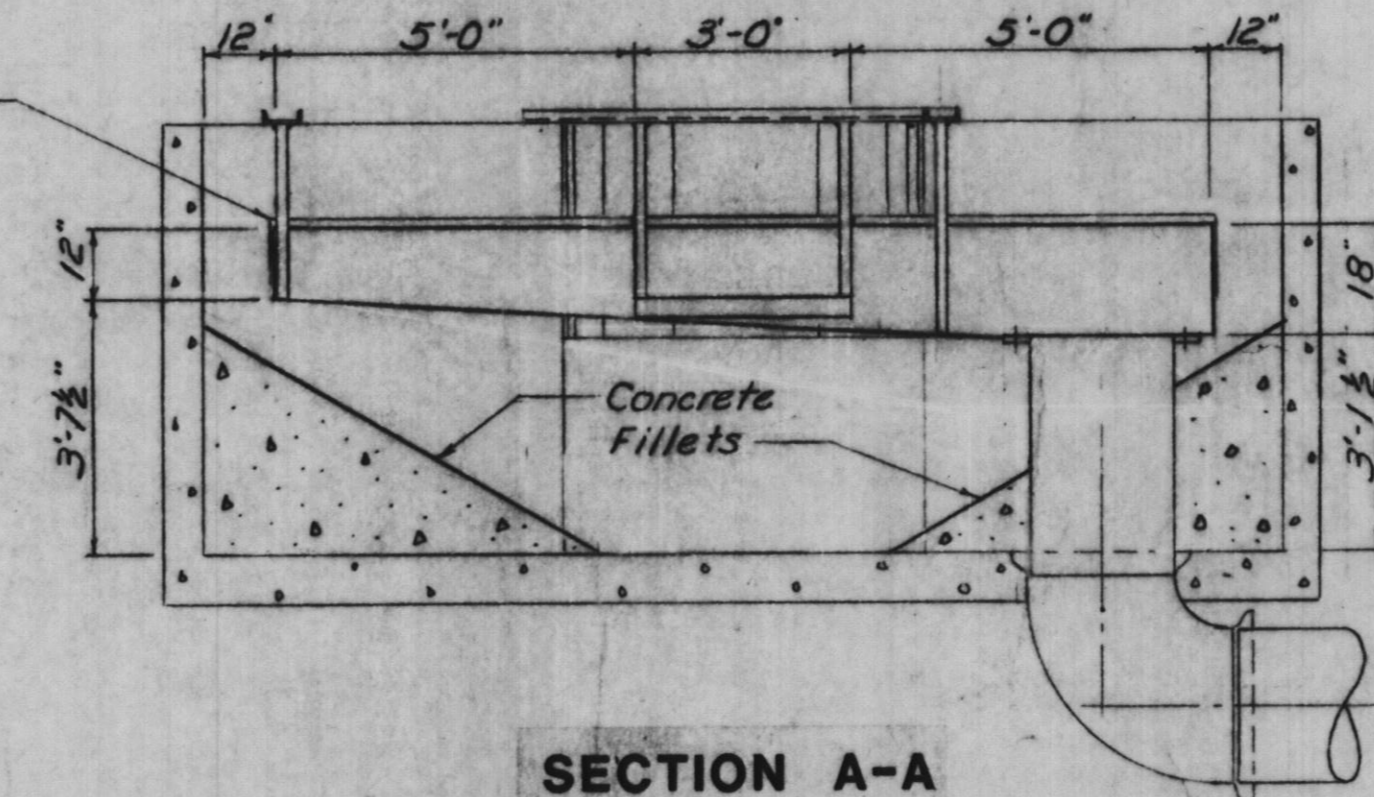
**ELEVATION**

**WEIR DETAIL**

No Scale



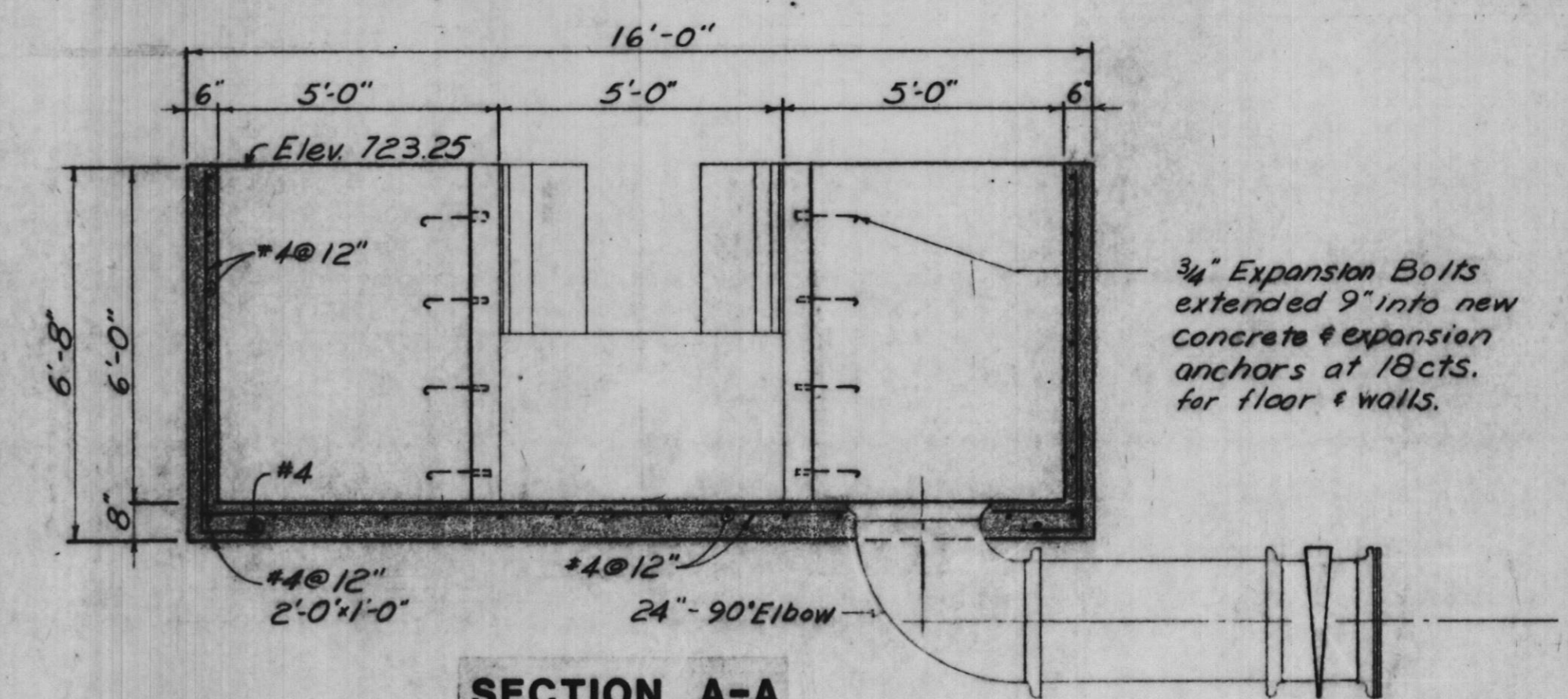
**SECTION C-C**



**SECTION A-A**

**OVERFLOW STRUCTURE**

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



**SECTION A-A**

**INLET STRUCTURE**

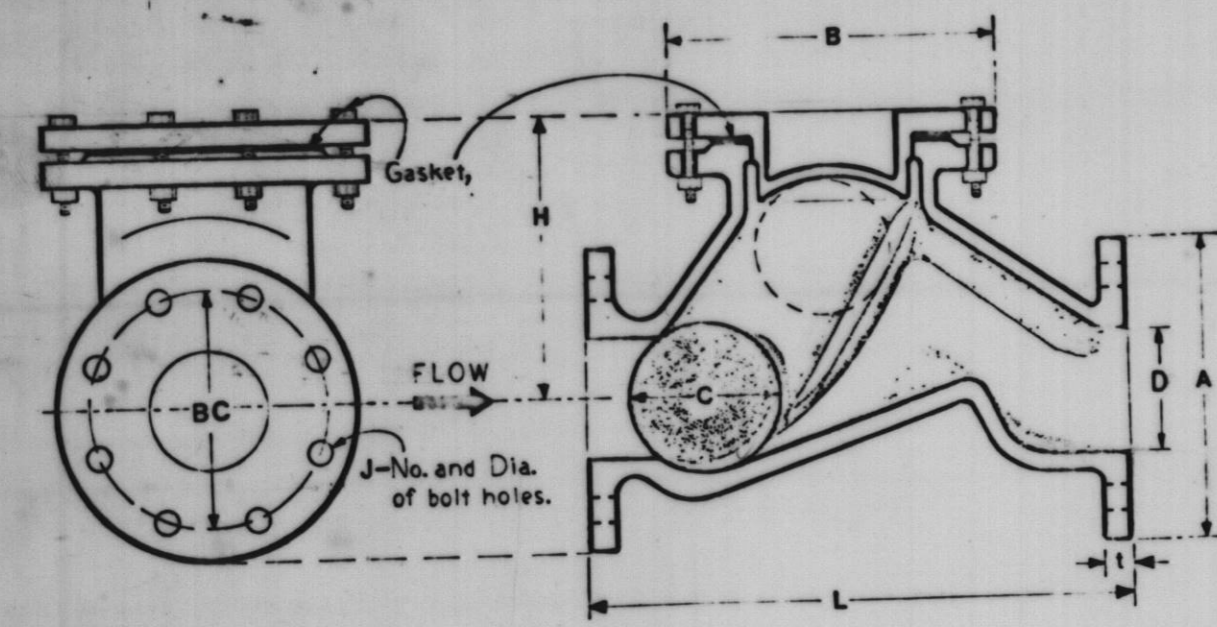
Scale: 3/8"=1'-0"

PLOTTED BY:	DATE	BY	REVISION DESCRIPTION	DATE	BY	REVISION DESCRIPTION
CHECKED BY:	1-12-81	BW	Note about 2" Water			
DRAWN BY:	2-15-82	EL	ADD 6" WAS RETURN LINE			
CHECKED BY:	2-25-83	BW	Record Drawing			
APPROVED BY:						

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CITY OF ST. CHARLES  
Riverside Pumping Station  
**INLET STRUCTURE & SITE PLAN at WWTP**

PROJECT NO. 100-048  
SCALE AS SHOWN DATE: 11-13-81  
SHEET OF  
**12 13**



Dimensions in Inches									
D	A'	B	C	H	L'	BC	J	K	Wgt.
Size	OD Flg	OD Cv	Ball Dia	C1 to Center	Length Flg Dia	Ball Dia	Ball Dia	Ball Dia	Lbs
2"	6-1/2	7-1/2	2-1/2	5-1/8	5/8	6-3/4	6	3/4	31
2-1/2"	7-1/2	7-3/4	3-1/4	6	11-5/16	5-1/2	4	3/4	46
3"	7-7/8	8-1/2	4	7-1/2	13-1/2	3/4	6	3/4	57
4"	8-5/8	10-1/4	5	8-7/8	17-1/2	15/16	7-1/2	8	97
5"	10	11-7/8	6	10-5/8	20	15/16	8-1/2	8	137
6"	11-1/2	13-3/8	7-1/2	12-1/2	24-1/4	1	9-1/2	8	209
8"	13-1/2	16-3/8	10	14-3/4	32	1-1/8	11-3/4	8	365
10"	16	18-1/2	12-5/8	18-1/2	39-1/2	1-3/16	14-1/4	12	624
12"	19	21-1/4	14-5/8	21-5/8	48-1/2	1-1/4	17	12	1032
14"	21	23-1/4	17-3/8	25-1/4	56-1/4	1-3/8	18-3/4	12	1400
16"	22-1/2	25-3/4	18-5/8	27-1/2	63	1-5/8	21-1/4	16	1-1/4
18"	24-1/2	27-3/4	20	29-3/4	70-7/8	1-3/4	22-3/4	16	1-1/4
20"	26-3/4	29-1/4	21-1/2	31-1/4	78-3/4	1-7/8	25	20	1-1/4

BODY: CAST IRON: ASTM A156-72 CLASS 35  
 FLANGE DRILLING: ANSI B16.1 CLASS 125 FLAT FACED  
 BOLT HOLES: SADDLE CENTER LINE.

BALL: HOLLOW STEEL WITH VULCANIZED NITRIL RUBBER  
 SINKING TYPE: SR GR. GREATER THAN 1.  
 FLOATING TYPE: SR GR. LESS THAN 1.

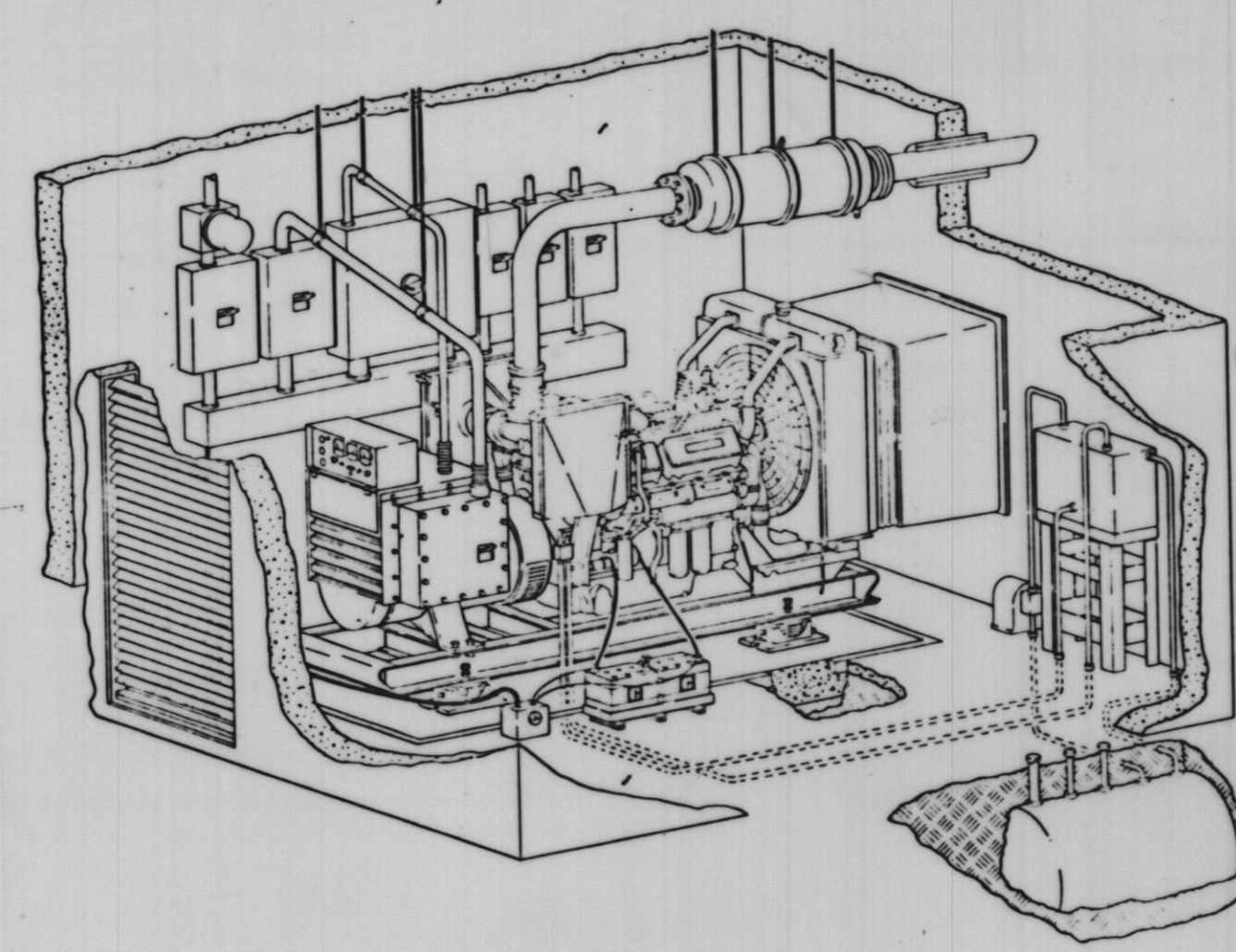
WORKING PRESSURE: ISO RSLG. MAX. TEMP: 185° F. MAX.

SERVICE: GENERALLY USED FOR SEWAGE. FOR OTHER  
 FLOWING MEDIA, VARIOUS TYPES OF COATINGS  
 AND BALL ELASTOMERS ARE AVAILABLE.  
 DETAILS ARE REQUIRED FOR PROPER  
 EVALUATION.

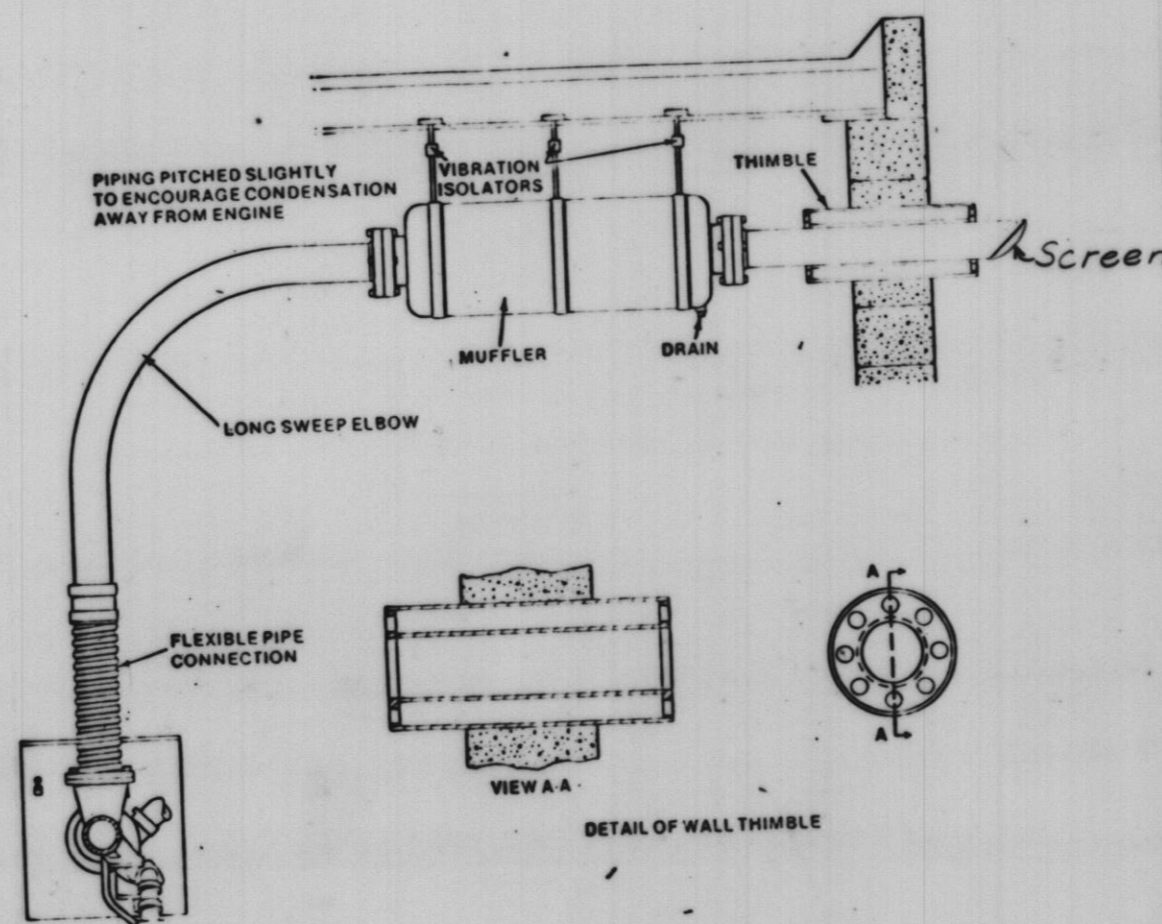
HIGHER WORKING PRESSURES AVAILABLE  
 USING ANSI CLASS 250 FLANGES,  
 DUCTILE IRON CONSTRUCTION.

NOTE: When static head on check valve is less than  
 10 feet of water (or 4 psi), valve should be  
 installed in vertical position only.

### BALL CHECK VALVE

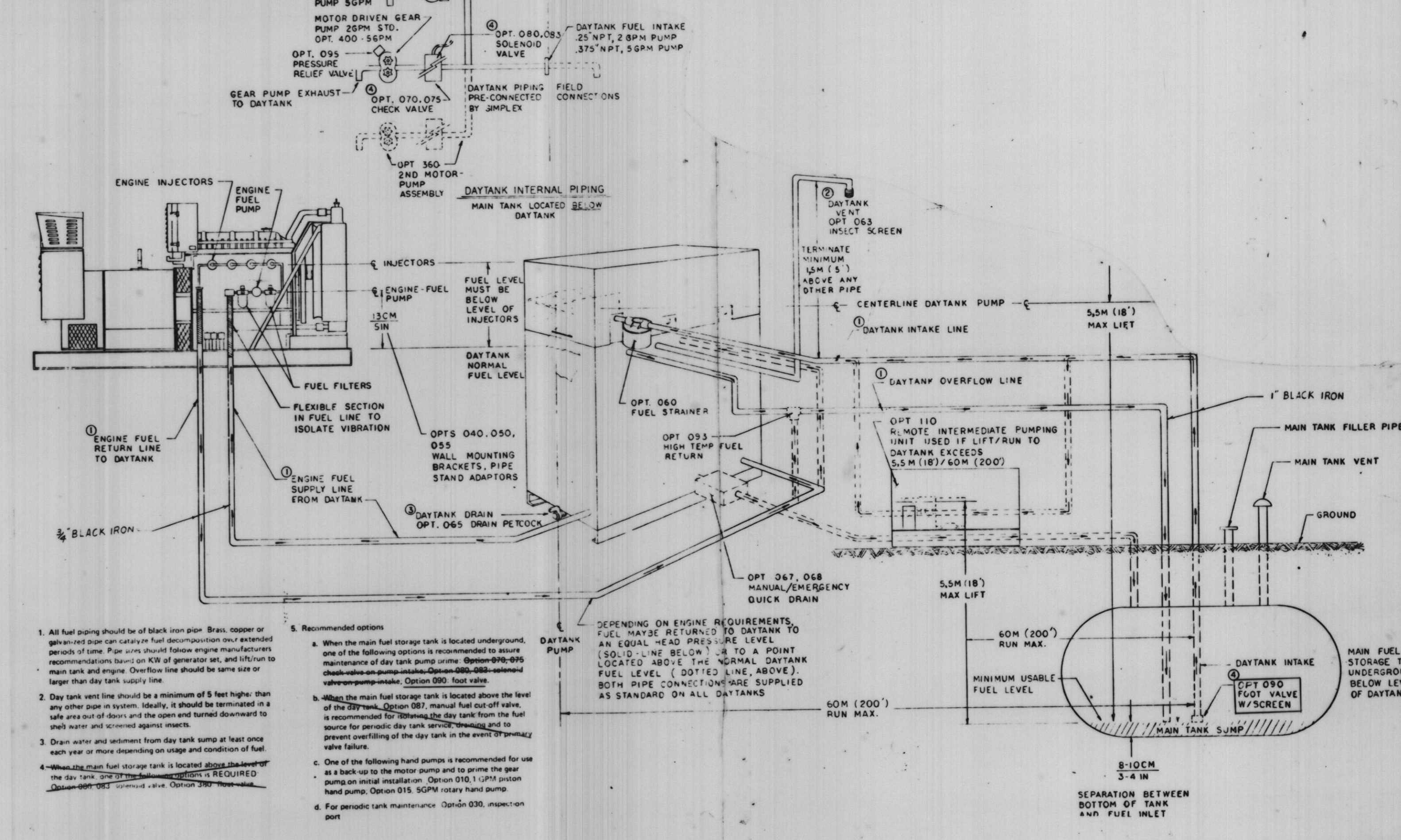


### TYPICAL INSTALLATION



### EXHAUST DETAIL

### Engine ↔ DAY TANK ↔ Main Tank Fuel Supply Network



- All fuel piping should be of black iron pipe. Brass, copper or galvanized pipe can catalyze fuel decomposition over extended periods of time. Pipe joints should follow engine manufacturer's recommendations based on KW of generator set, and lift/run to main tank and engine. Overflow line should be same size or larger than day tank supply line.
- Day tank vent line should be a minimum of 5 feet higher than any other pipe in system. Ideally, it should be terminated in a safe area out of doors and the cap and turned downward to catch water and screened against insects.
- Drain water and sediment from day tank sump at least once each year or more depending on usage and condition of fuel.
- When the main fuel storage tank is located above the level of the day tank, the day tank manual fuel out off valve is recommended for periodic day tank service, removal and to prevent overfilling of the day tank in the event of primary valve failure.
- Recommended options:
  - When the main fuel storage tank is located underground, one of the following options is recommended to assure maintenance of day tank pump prime. Option 040-055 check valve on pump intake. Option 060-065 vented valve on pump intake. Option 070: float valve.
  - When the main fuel storage tank is located above the level of the day tank, Option 087, manual fuel out off valve, is recommended for periodic day tank service, removal and to prevent overfilling of the day tank in the event of primary valve failure.
  - One of the following hand pumps is recommended for use as a back-up to the motor pump and to prime the gear pump on initial installation. Option 010: 100PM piston hand pump. Option 015: 50PM rotary hand pump.
  - For periodic tank maintenance. Option 030, inspection port.

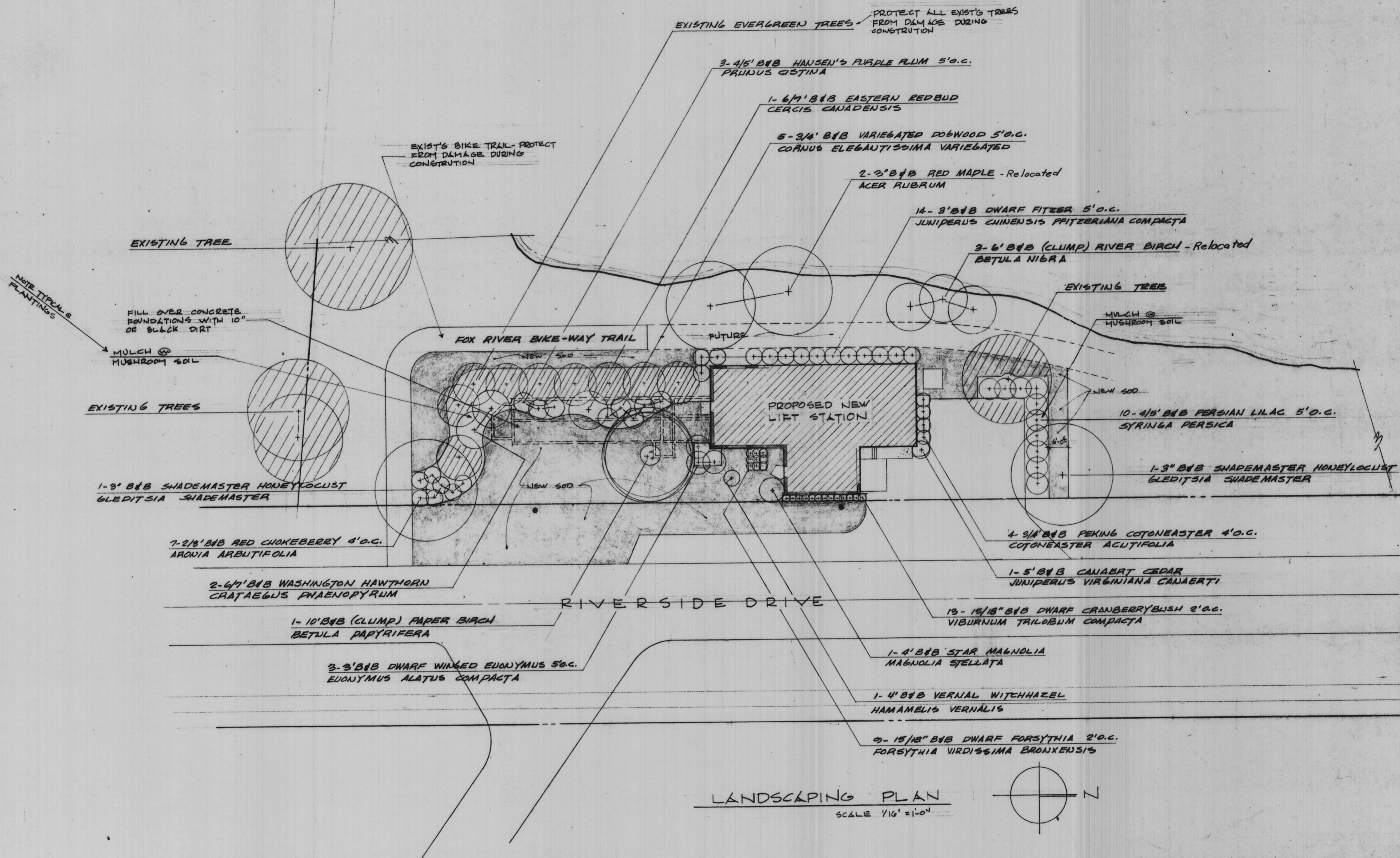
### FUEL SUPPLY DETAIL

PLOTTED BY:	DATE	BY	REVISION DESCRIPTION	DATE	BY	REVISION DESCRIPTION
CHECKED BY:	6-4-83		Record Drawing			
DRAWN BY:						
CHECKED BY:						
APPROVED BY:						

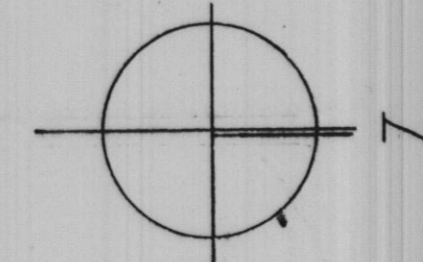
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 CONSULTING ENGINEERS  
 ST. CHARLES, EAST DUNDEE & AURORA, ILLINOIS

CITY OF ST. CHARLES  
 Riverside Pumping Station  
 DETAILS

PROJECT NO. 100-048  
 SCALE: AS SHOWN DATE: 11-13-81  
 SHEET OF 13 13



LANDSCAPING PLAN  
SCALE 1/16" = 1'-0"



"Record Drawing 6-4-83"

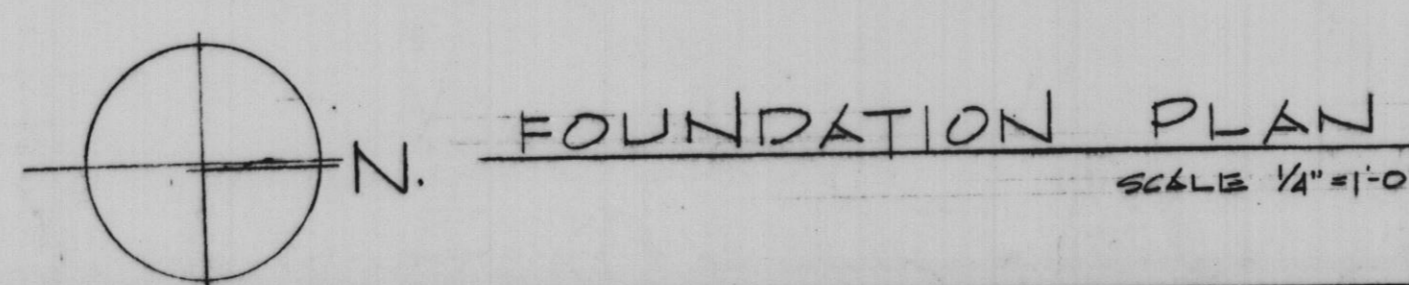
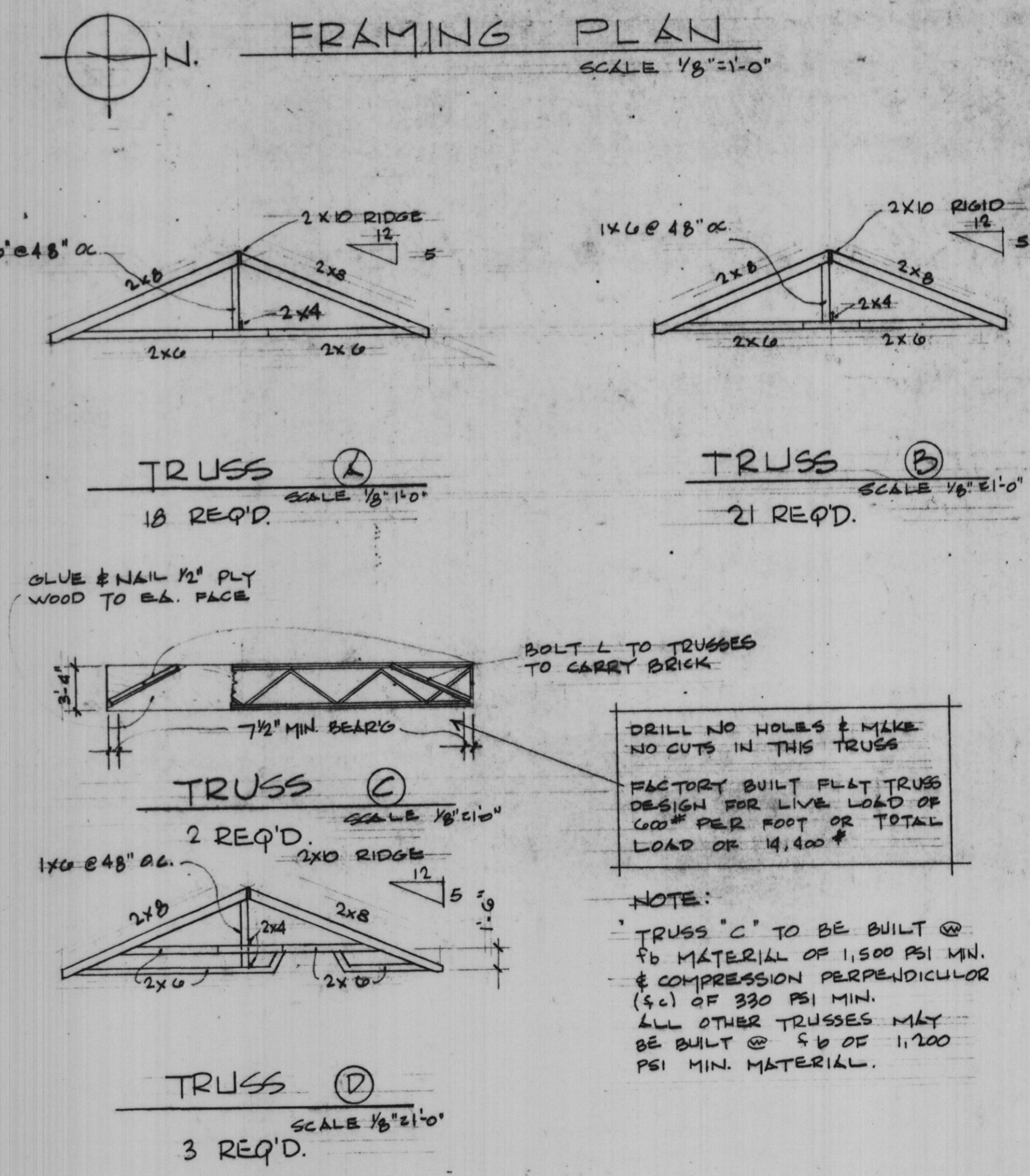
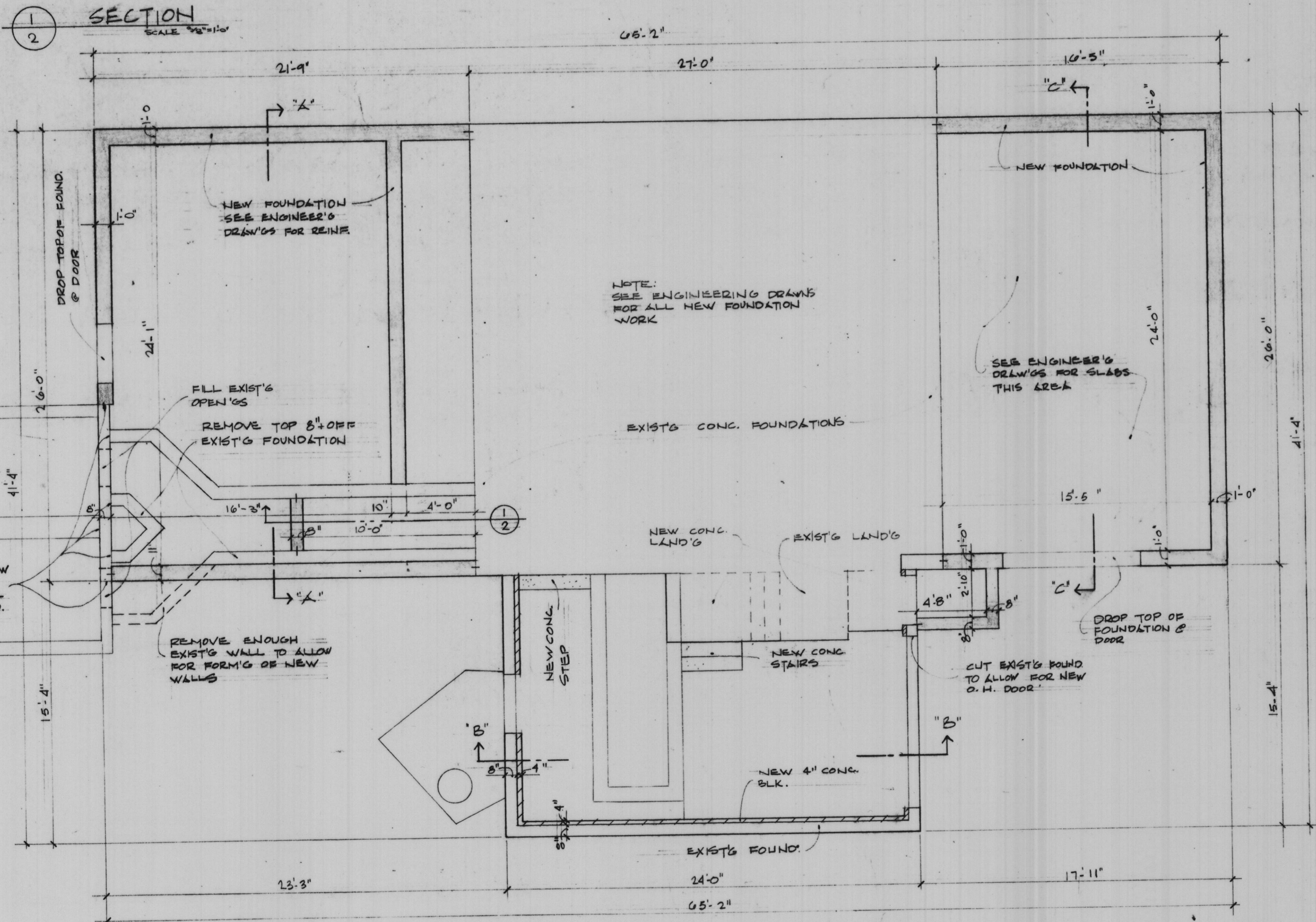
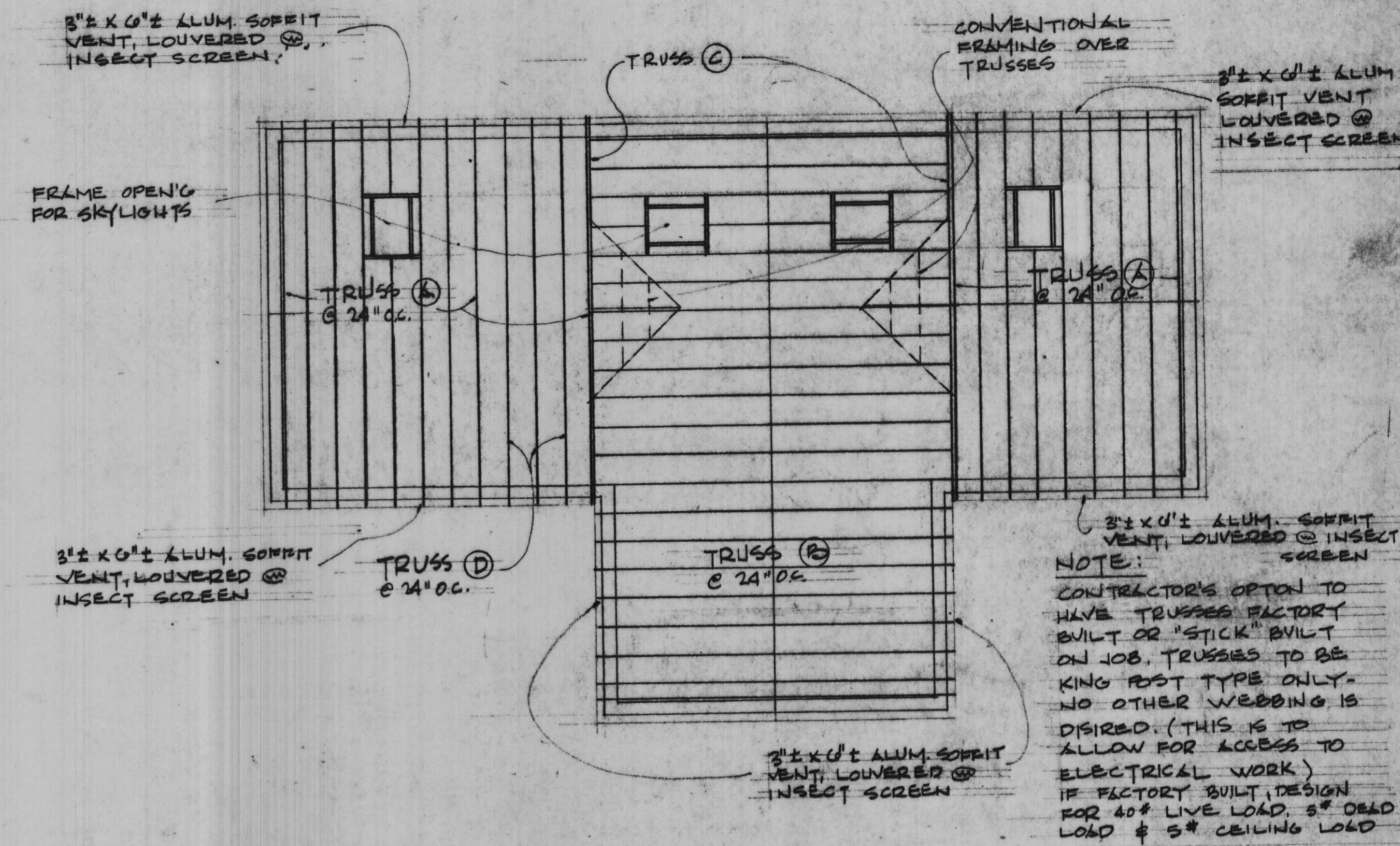
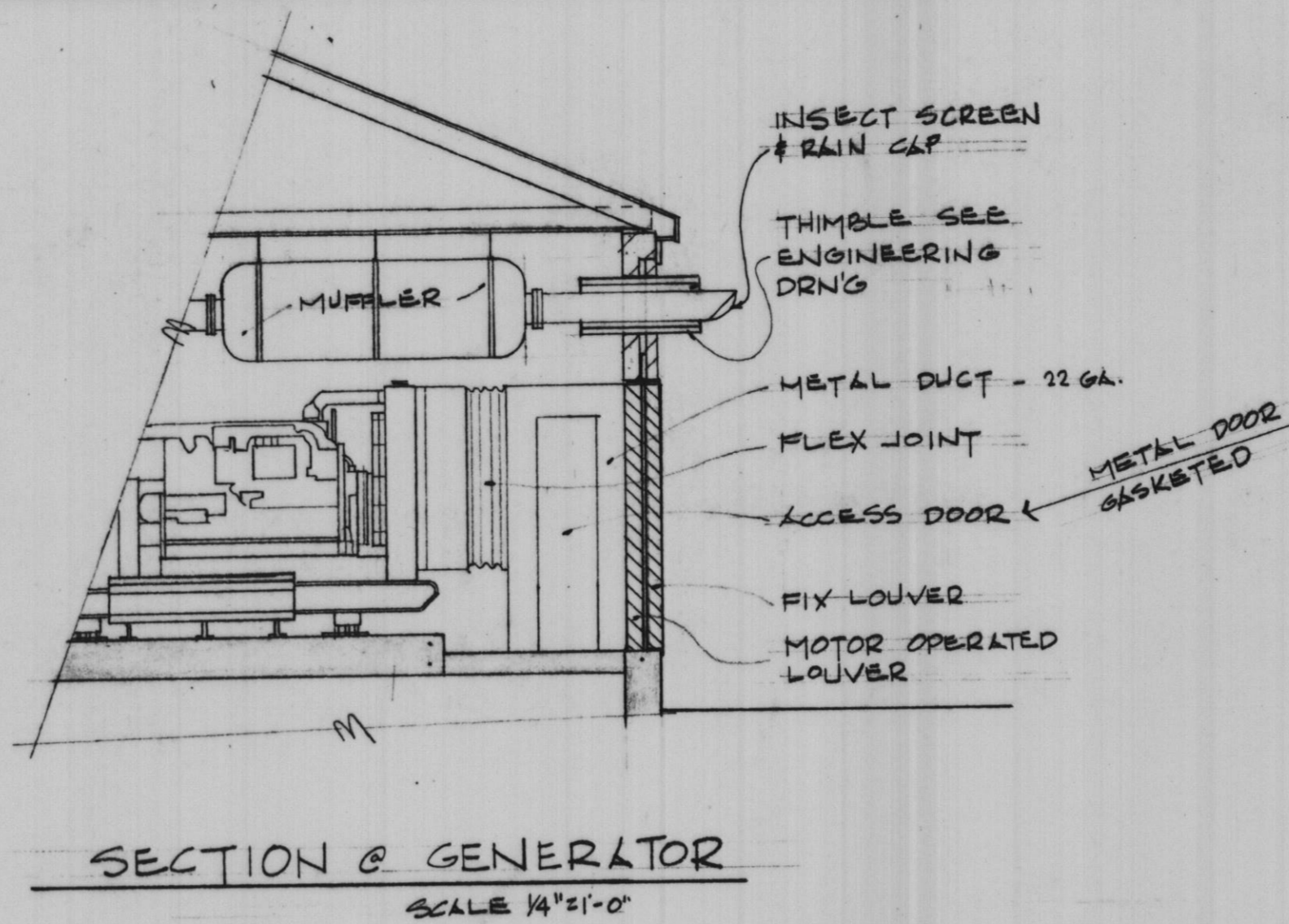
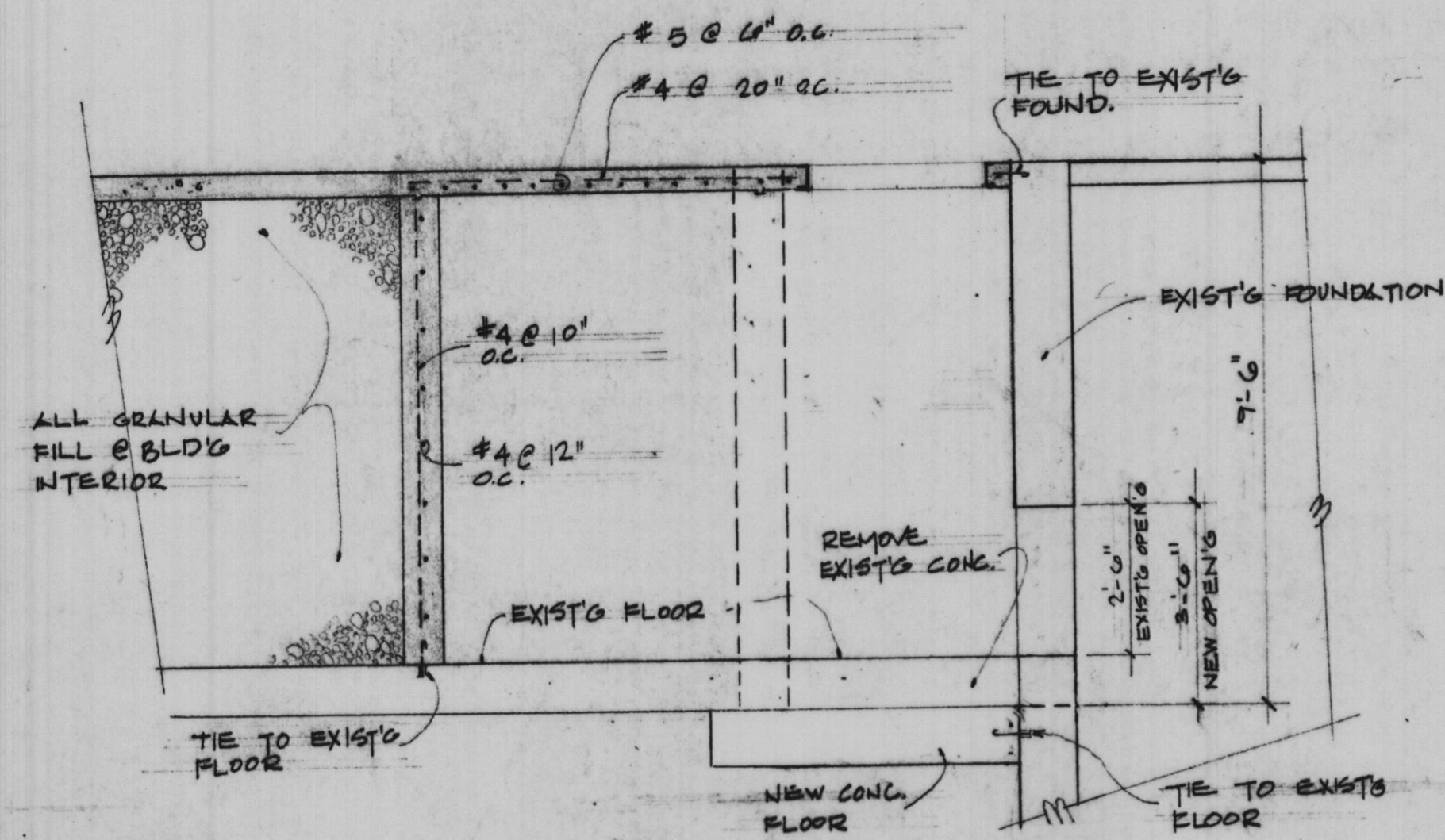
PLOTTED BY:	DATE	BY	REVISION DESCRIPTION	DATE	BY	REVISION DESCRIPTION
CHECKED BY:						
DRAWN BY:						
CHECKED BY:						
APPROVED BY:						



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ST. CHARLES, EAST DUNDEE & AURORA, ILLINOIS

**CITY OF ST. CHARLES**  
Riverside Pumping Station  
**LANDSCAPING PLAN**

PROJECT NO. 100-048
SCALE 1/16" = 1'-0" DATE: 11-13-81
SHEET OF
<b>A1 6</b>



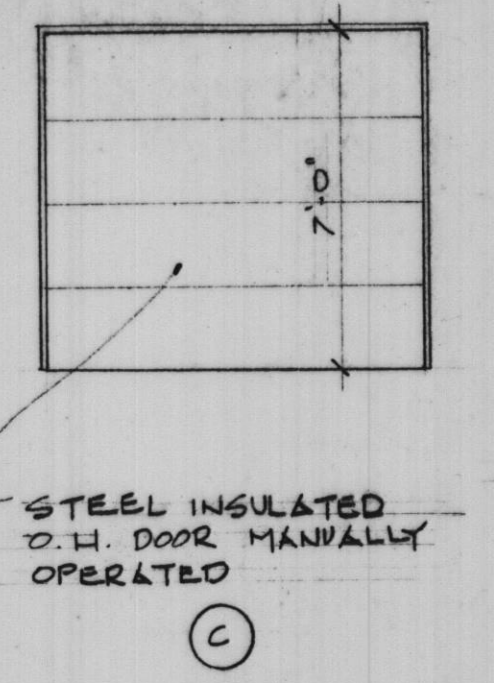
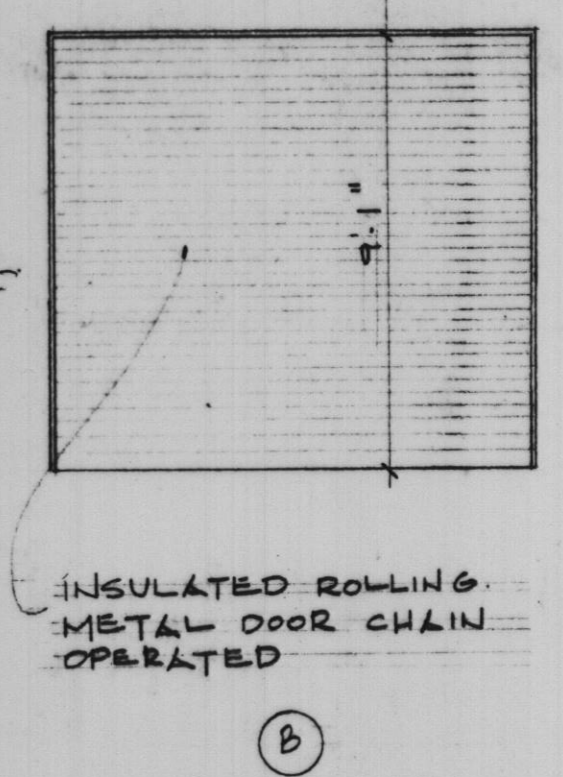
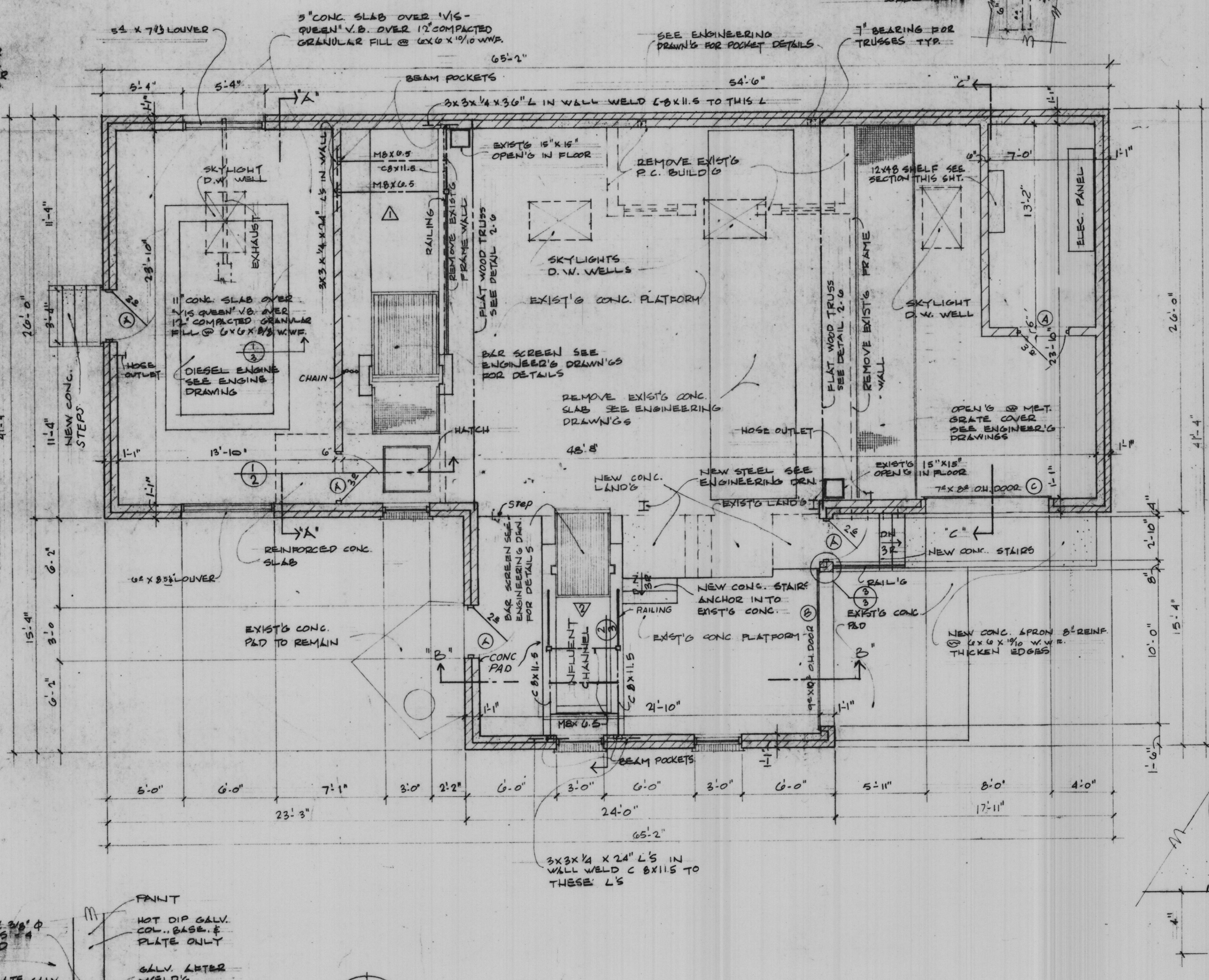
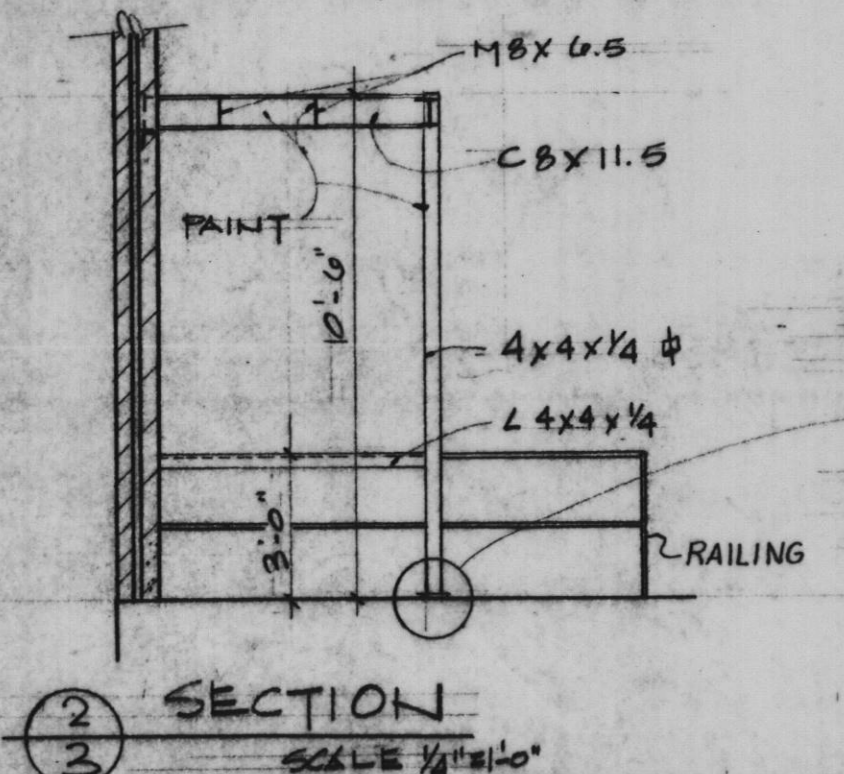
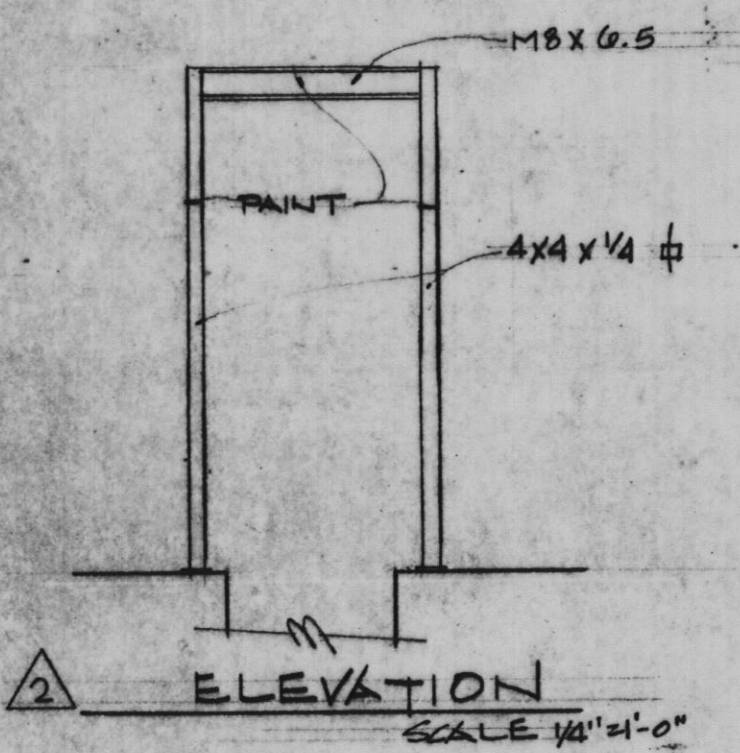
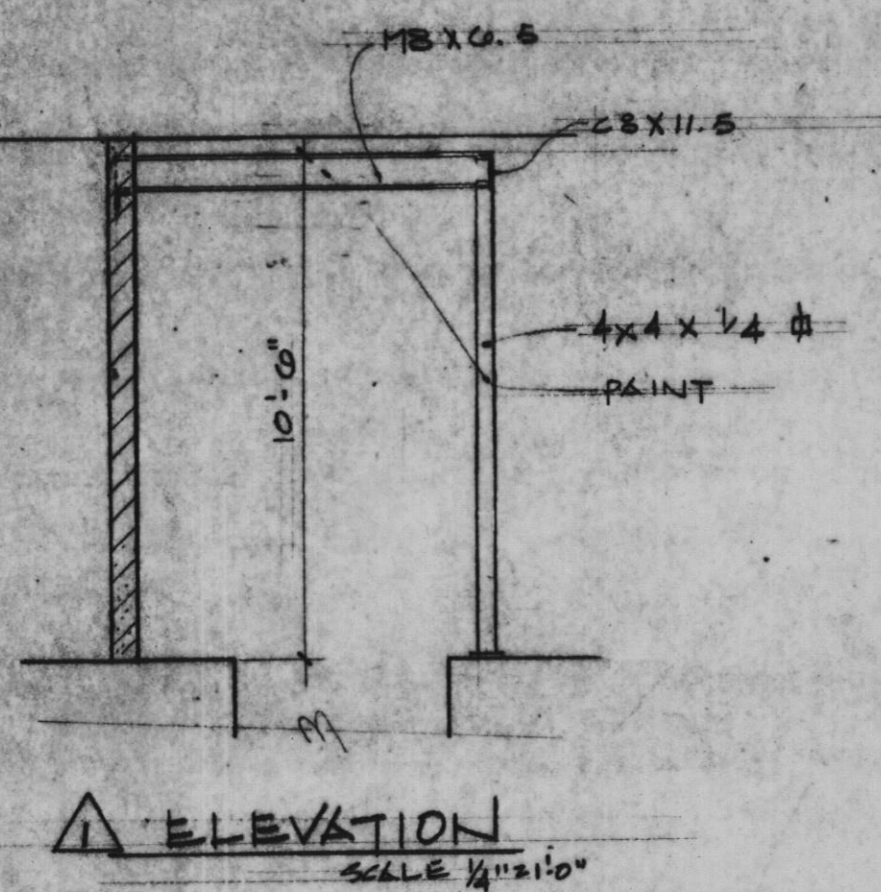
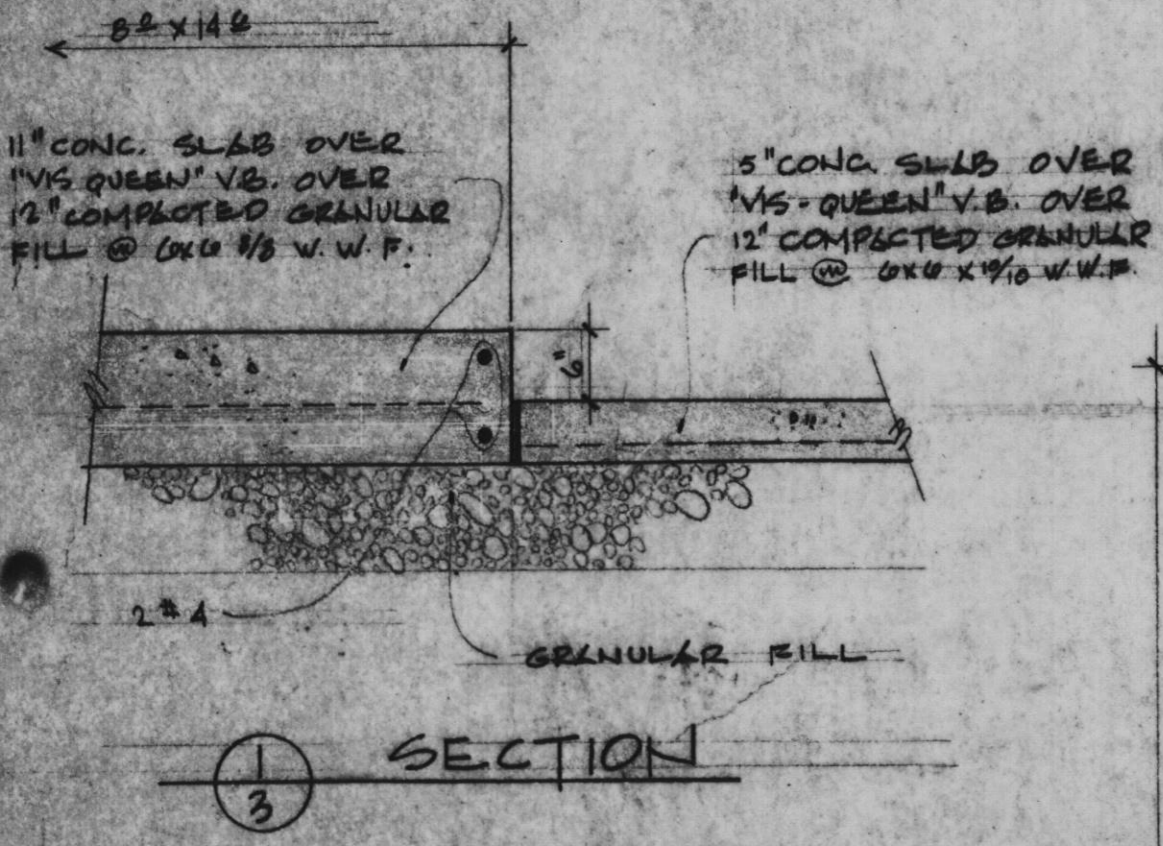
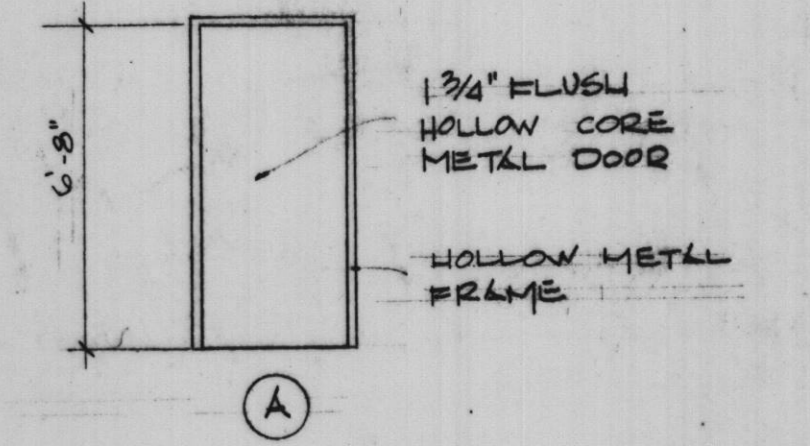
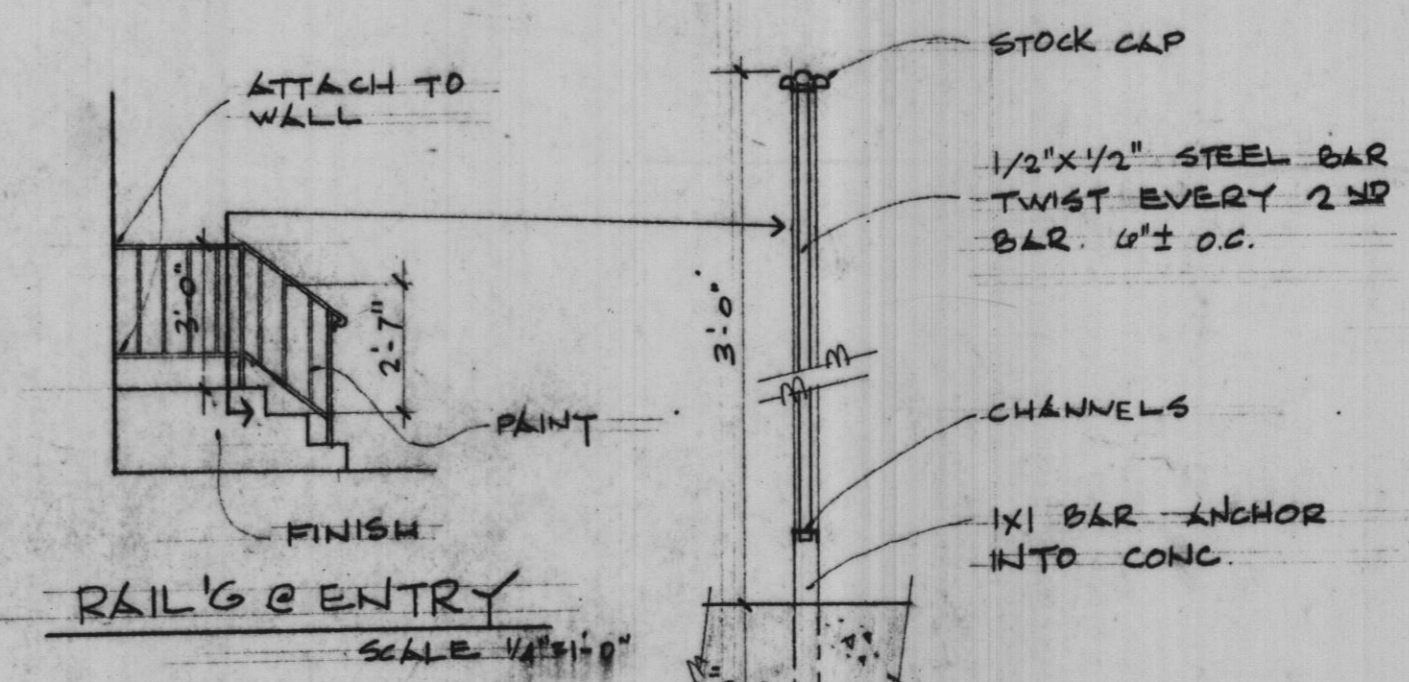
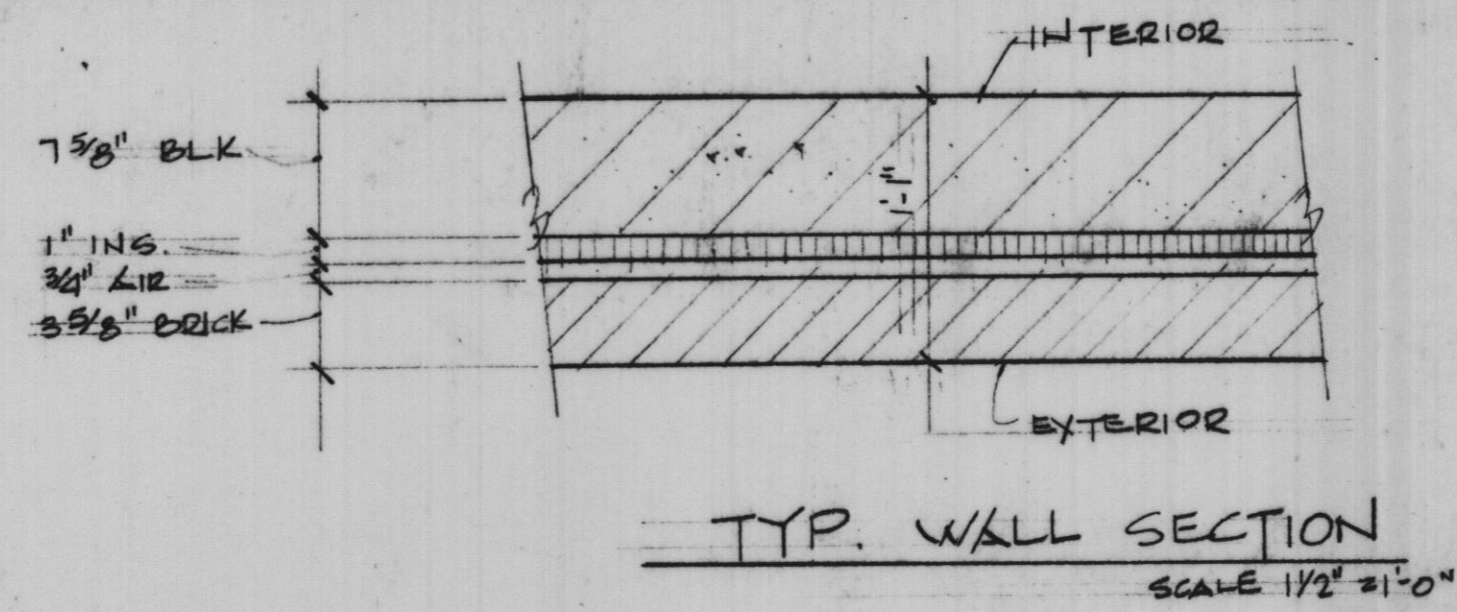
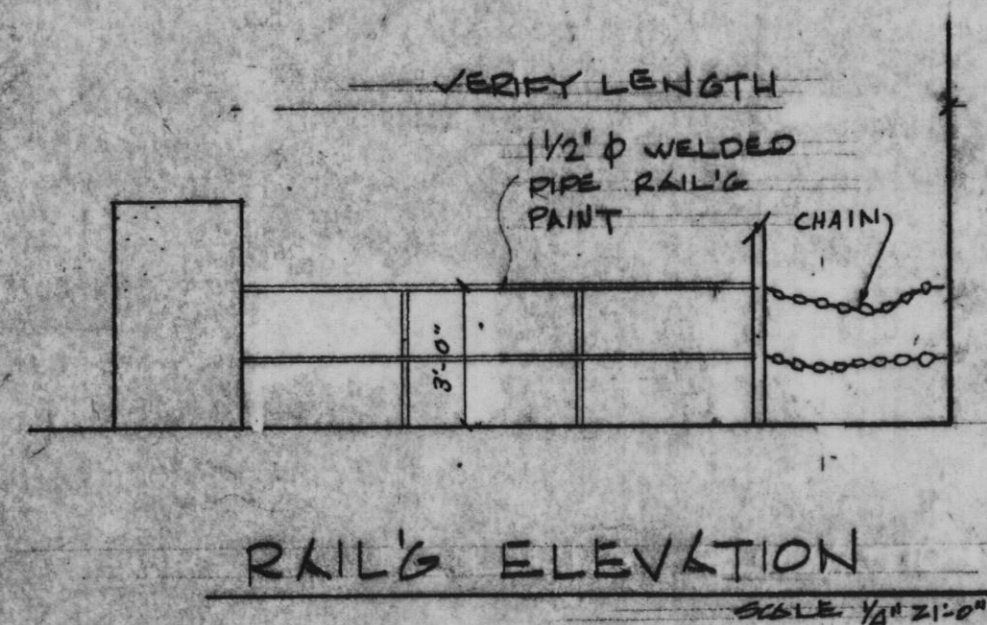
"Record Drawing 6-3-83"

PLOTTED BY:	DATE	BY	REVISION DESCRIPTION	DATE	BY	REVISION DESCRIPTION
CHECKED BY:						
DRAWN BY:						
CHECKED BY:						
APPROVED BY:						

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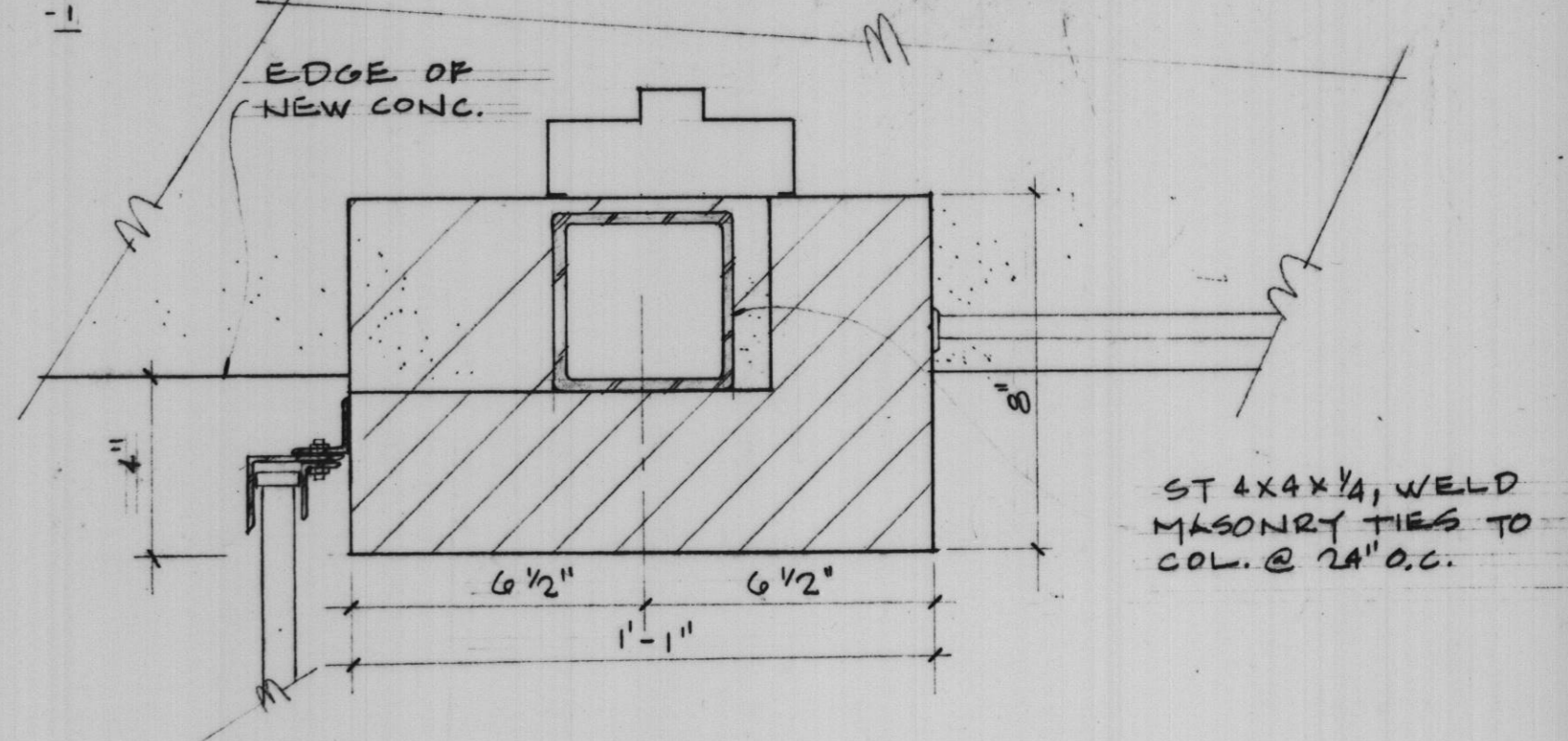
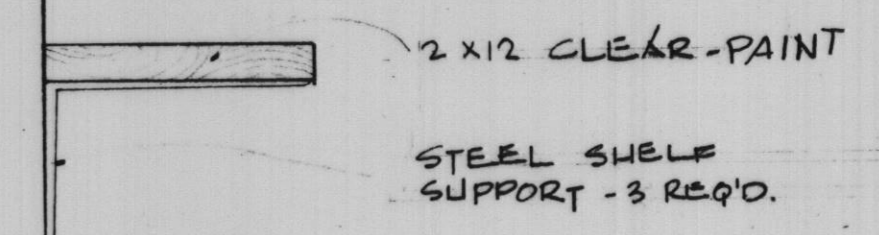
CITY OF ST. CHARLES  
Riverside Pumping Station  
FOUNDATION PLAN

PROJECT NO. 100-048  
SCALE SHOWN DATE: 11-13-81  
SHEET OF  
**A2 6**



**LINTEL SCHEDULE**

LINTEL @ 8" OVER HEAD DOOR	C8X11.5 @ 14" O.C. R. I.
" @ 9" " " "	" C8X11.5 @ 14" O.C. R. I.
" @ PASSAGE DOOR	3 1/2" x 3 1/2" x 1/4" 5x6x1/4" J.L.
" @ WINDOW S & 24x12 LOUVERS	3 1/2" x 3 1/2" x 1/4" 5x6x1/4" J.L.
" @ LOUVERS	C8X11.5 @ 1/4" x 10 1/2" R. I.



PLOTTED BY:	DATE	BY	REVISION DESCRIPTION	DATE	BY	REVISION DESCRIPTION
CHECKED BY:	1-20-81	BEW	Add Chain & Railing for Bar Screen			
DRAWN BY:						
CHECKED BY:						
APPROVED BY:						

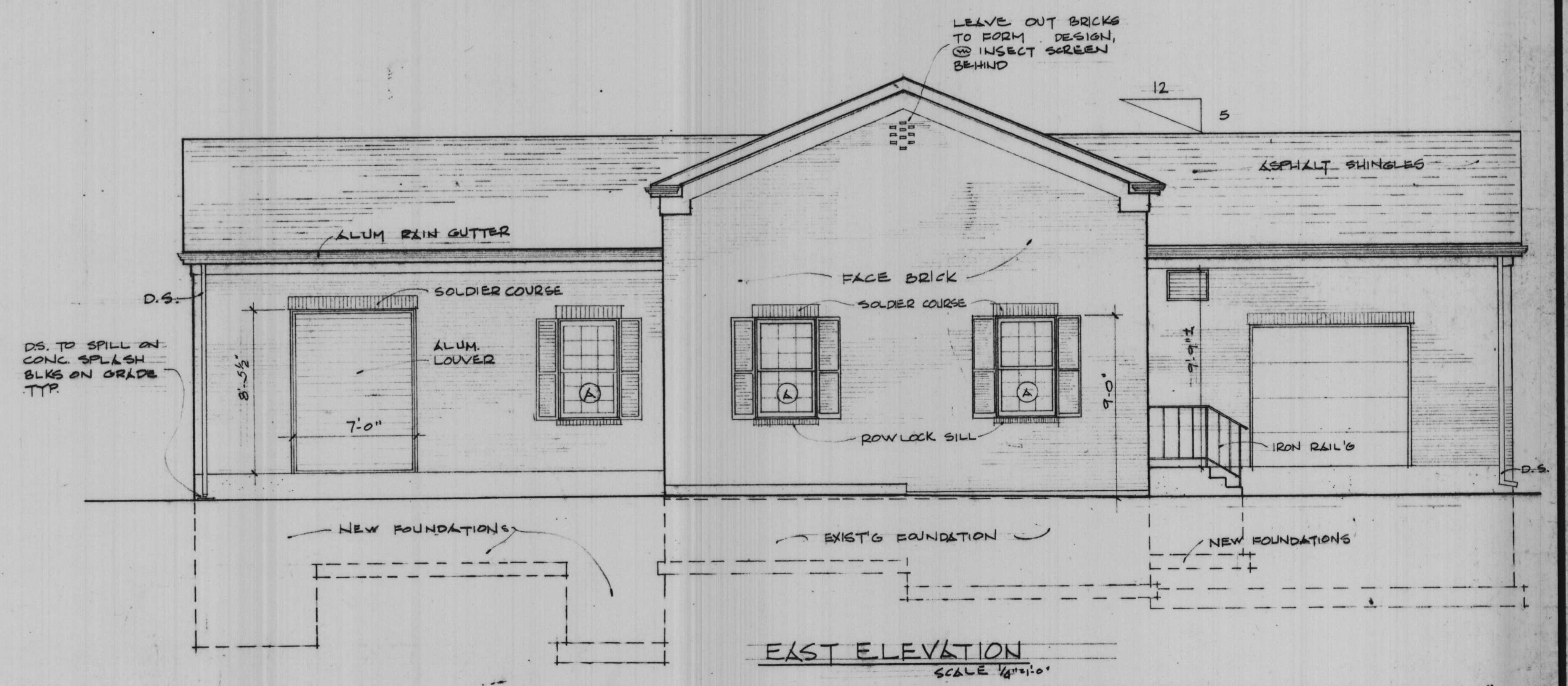
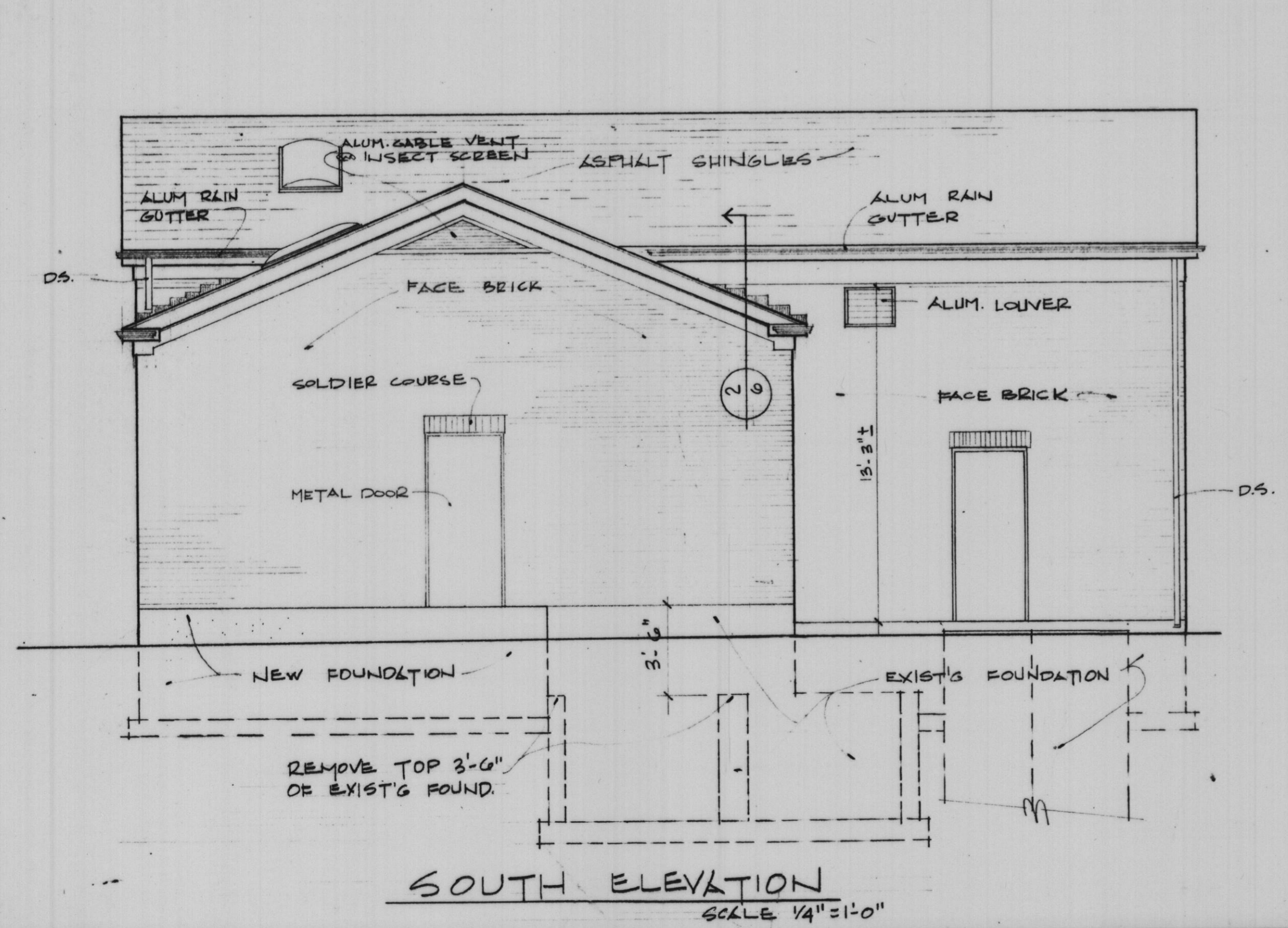
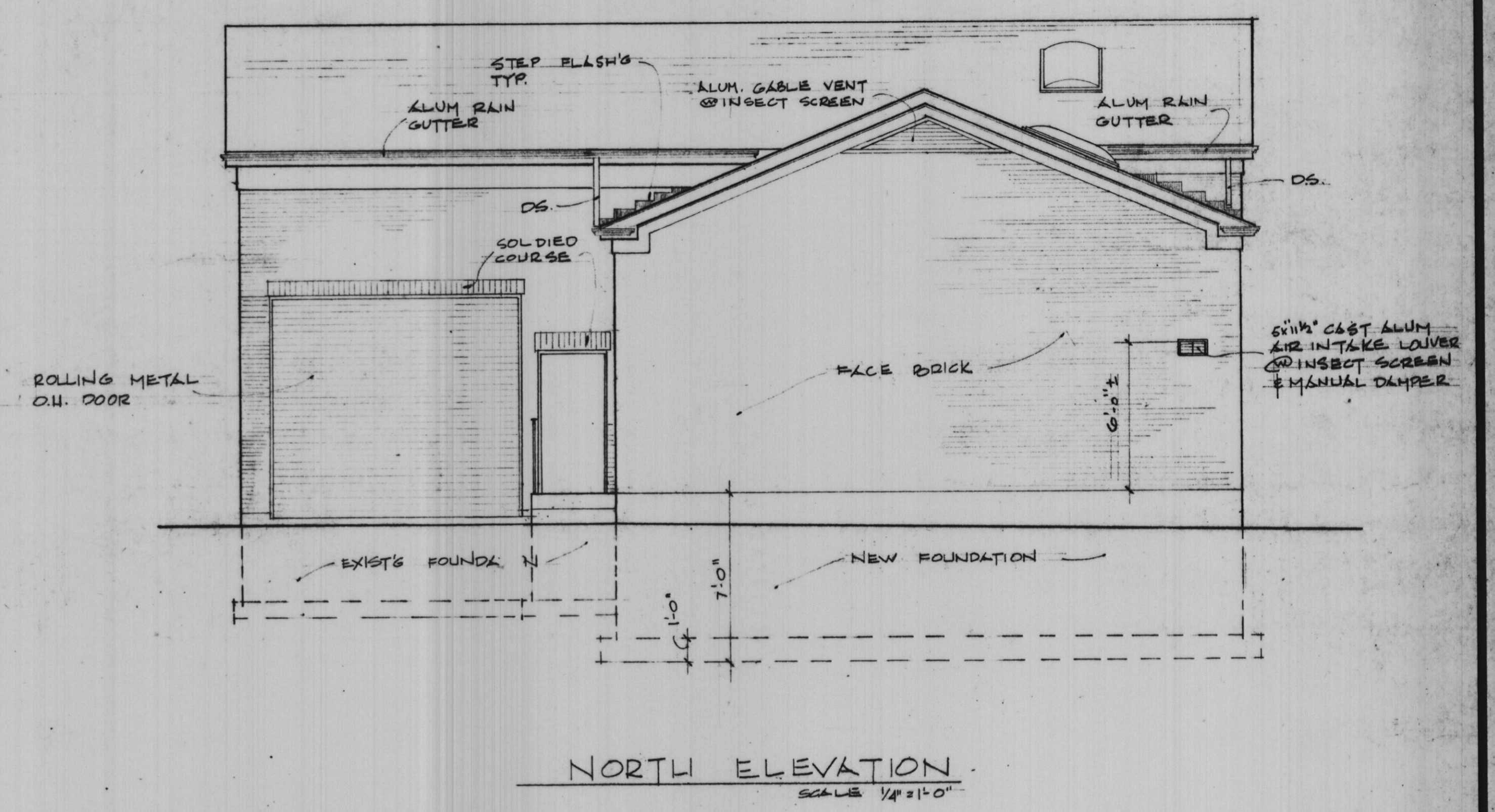
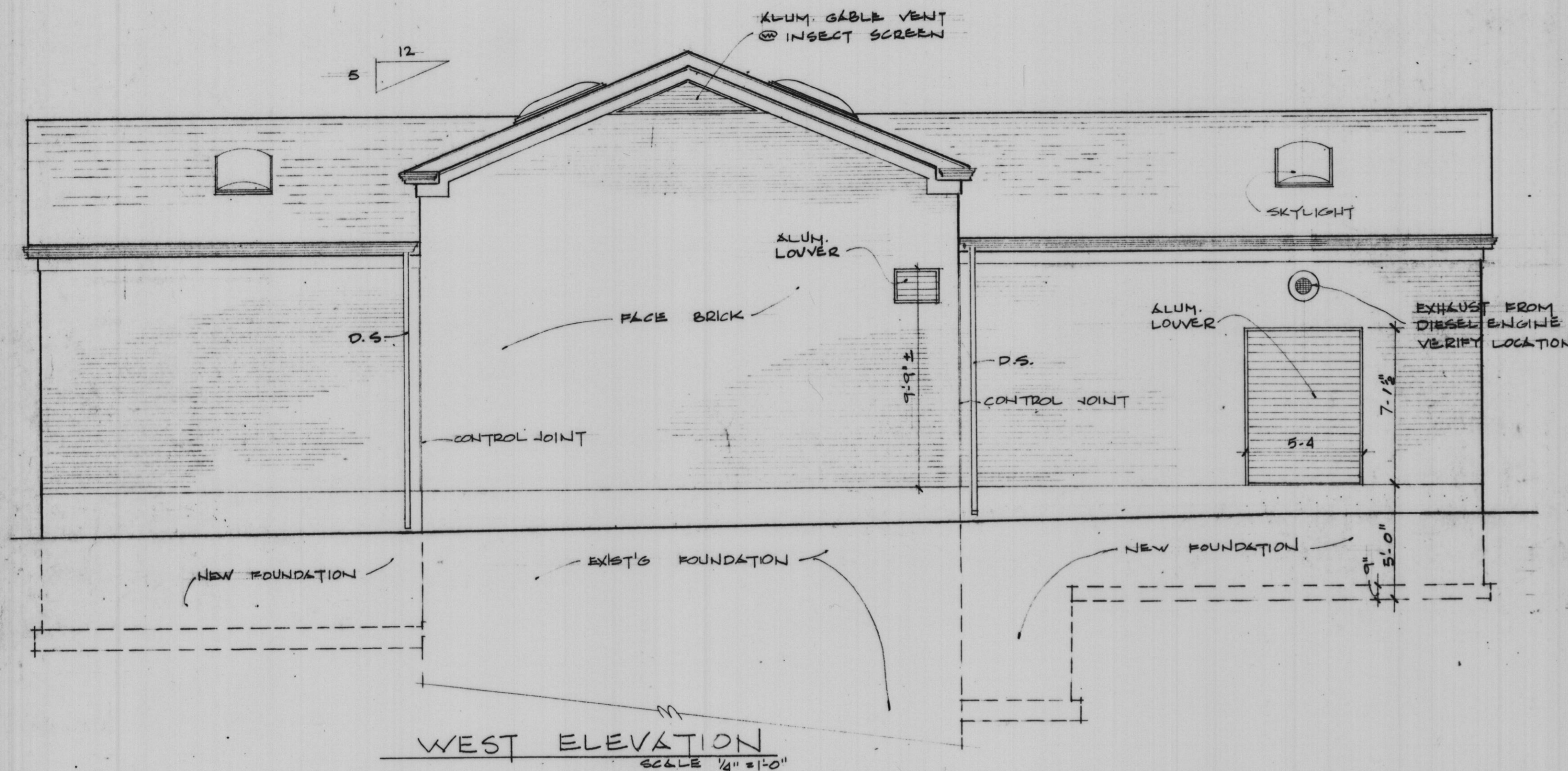
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CONSULTING ENGINEERS  
ST. CHARLES, EAST DUNDEE & AURORA, ILLINOIS

CITY OF ST. CHARLES  
Riverside Pumping Station  
FLOOR PLAN

PROJECT NO. 100-048  
SCALE: AS SHOWN DATE: 11-13-81  
SHEET OF  
**A3 6**

"Record Drawing"  
6-4-83





"Record Drawing 6-4-83"

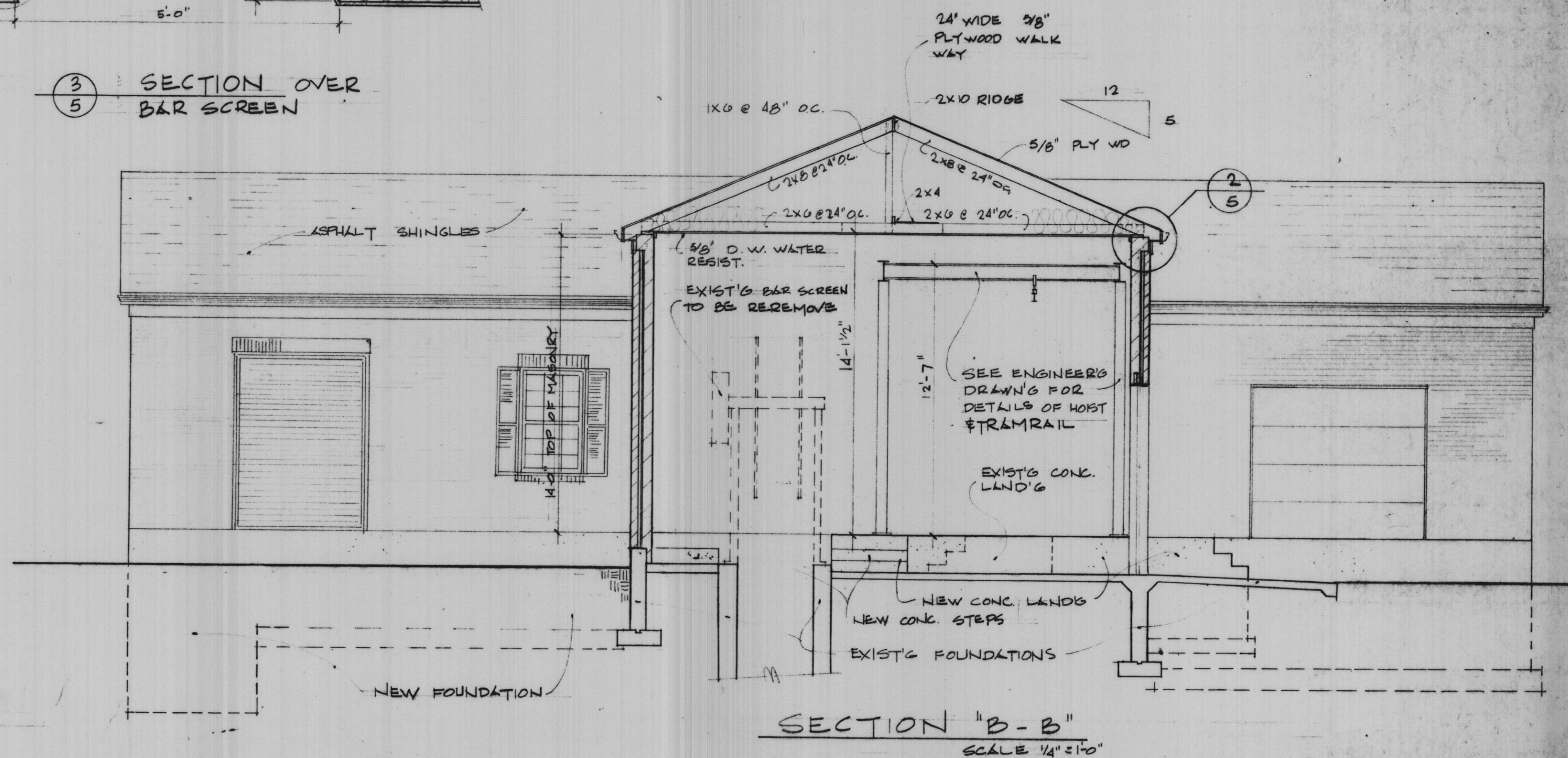
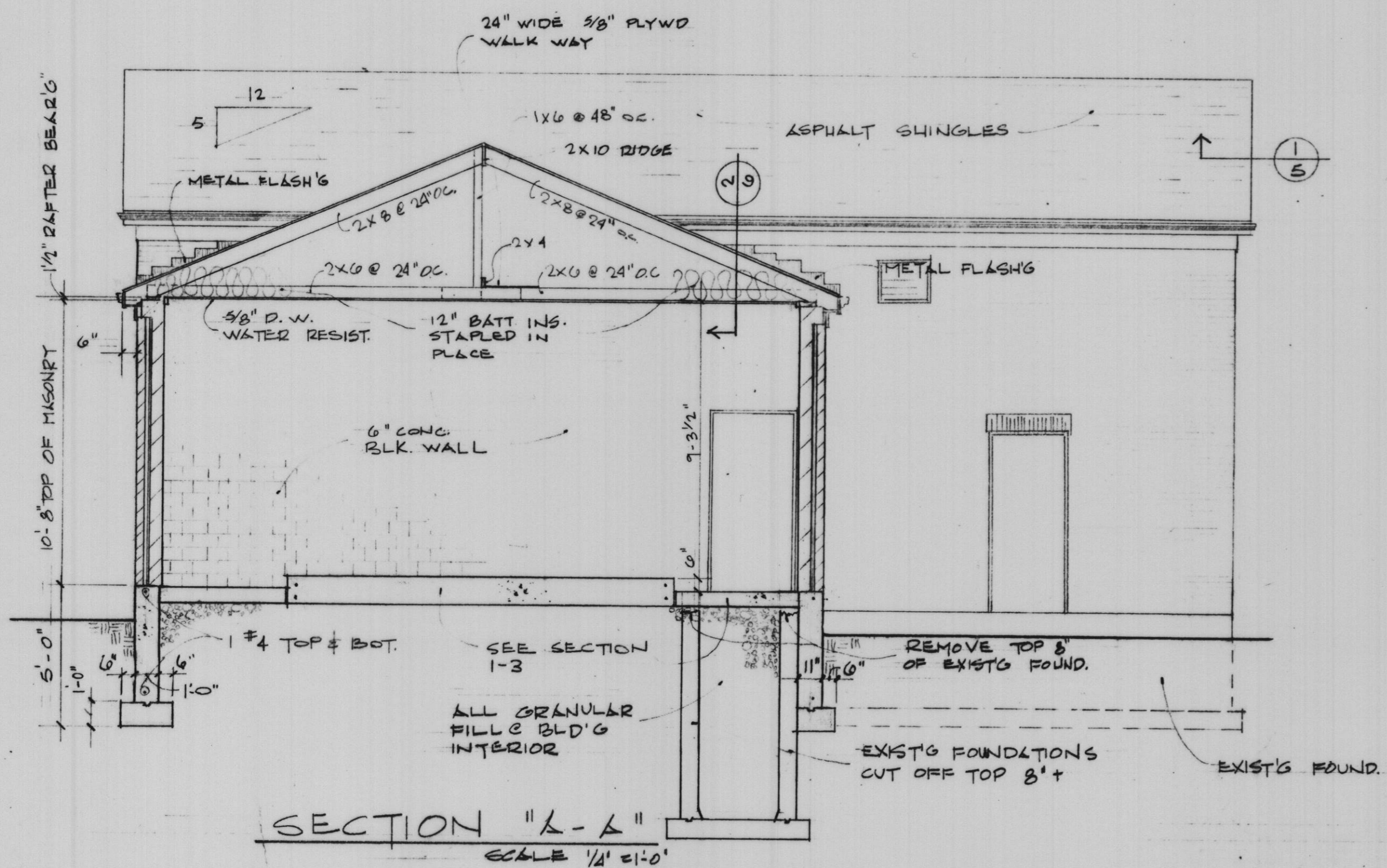
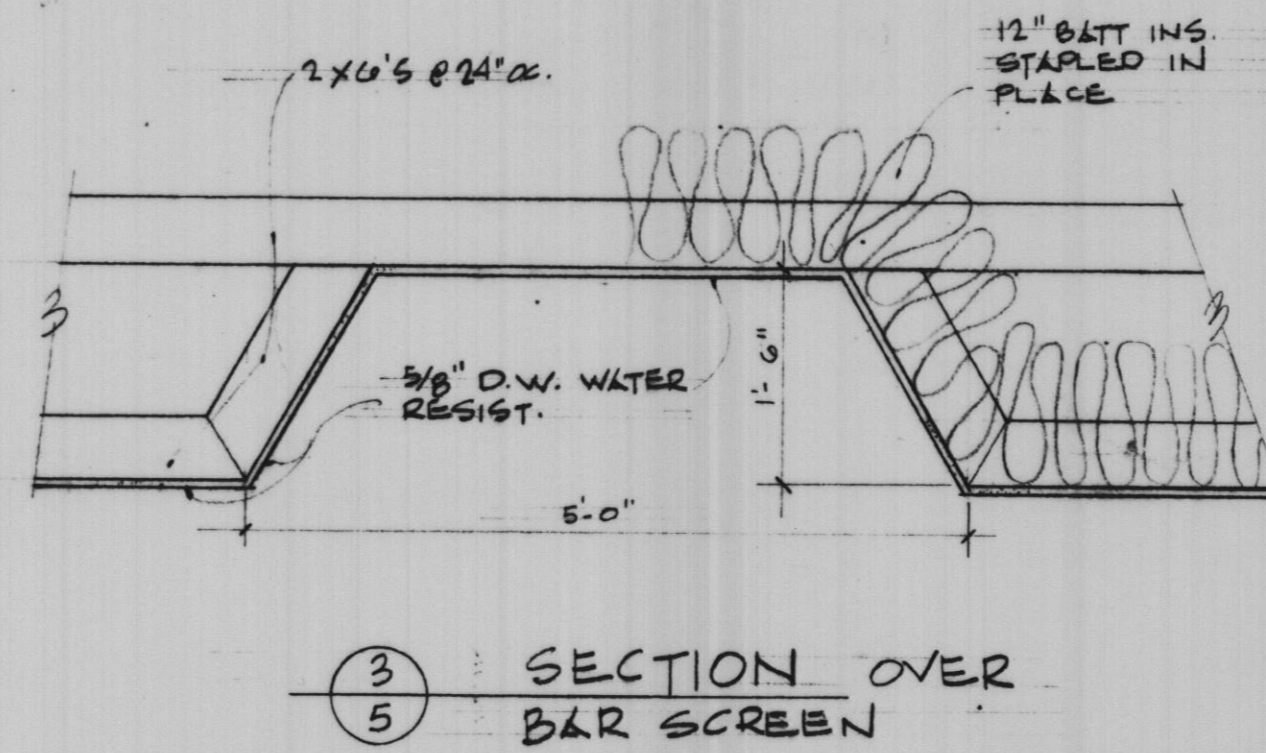
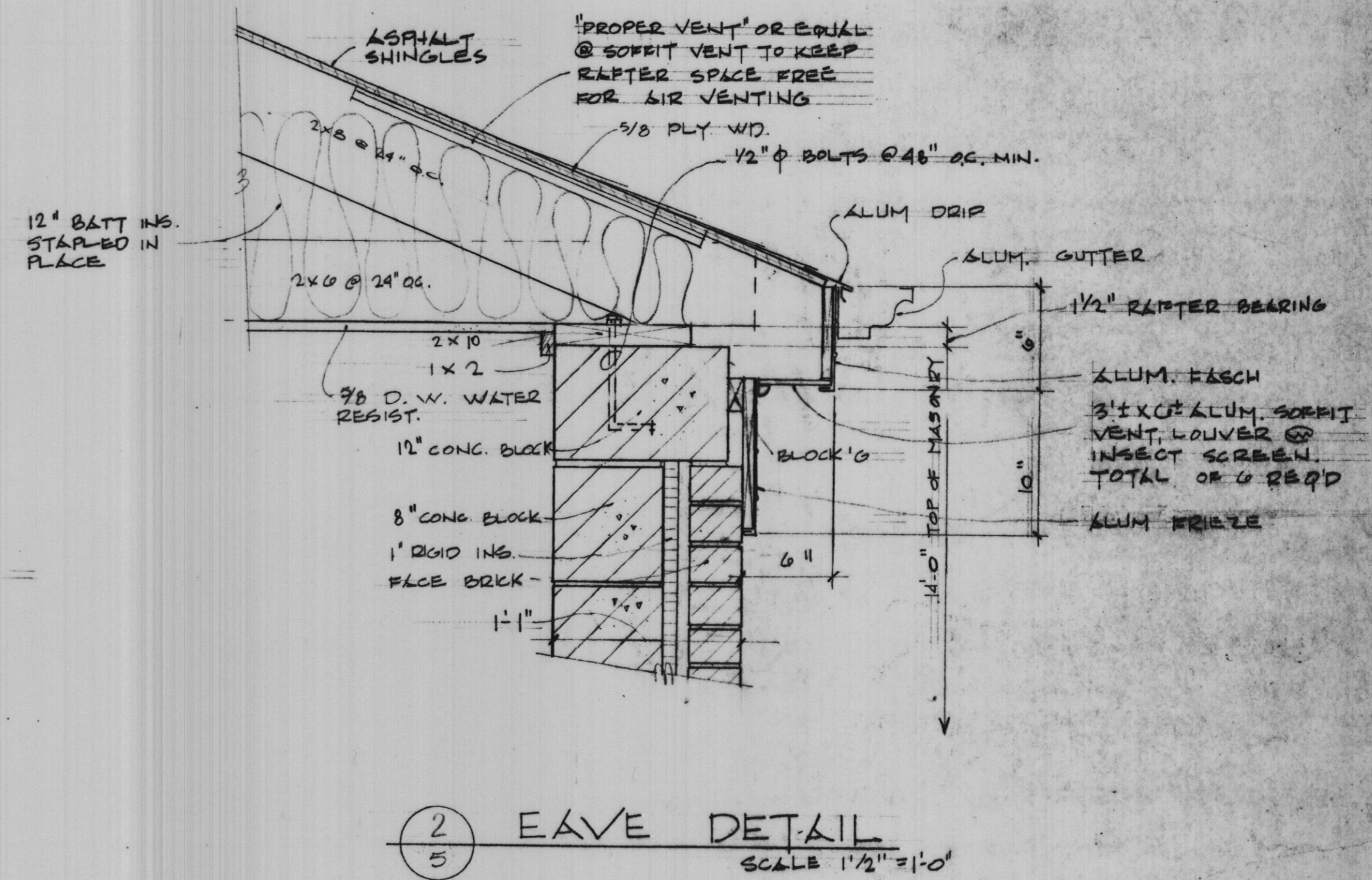
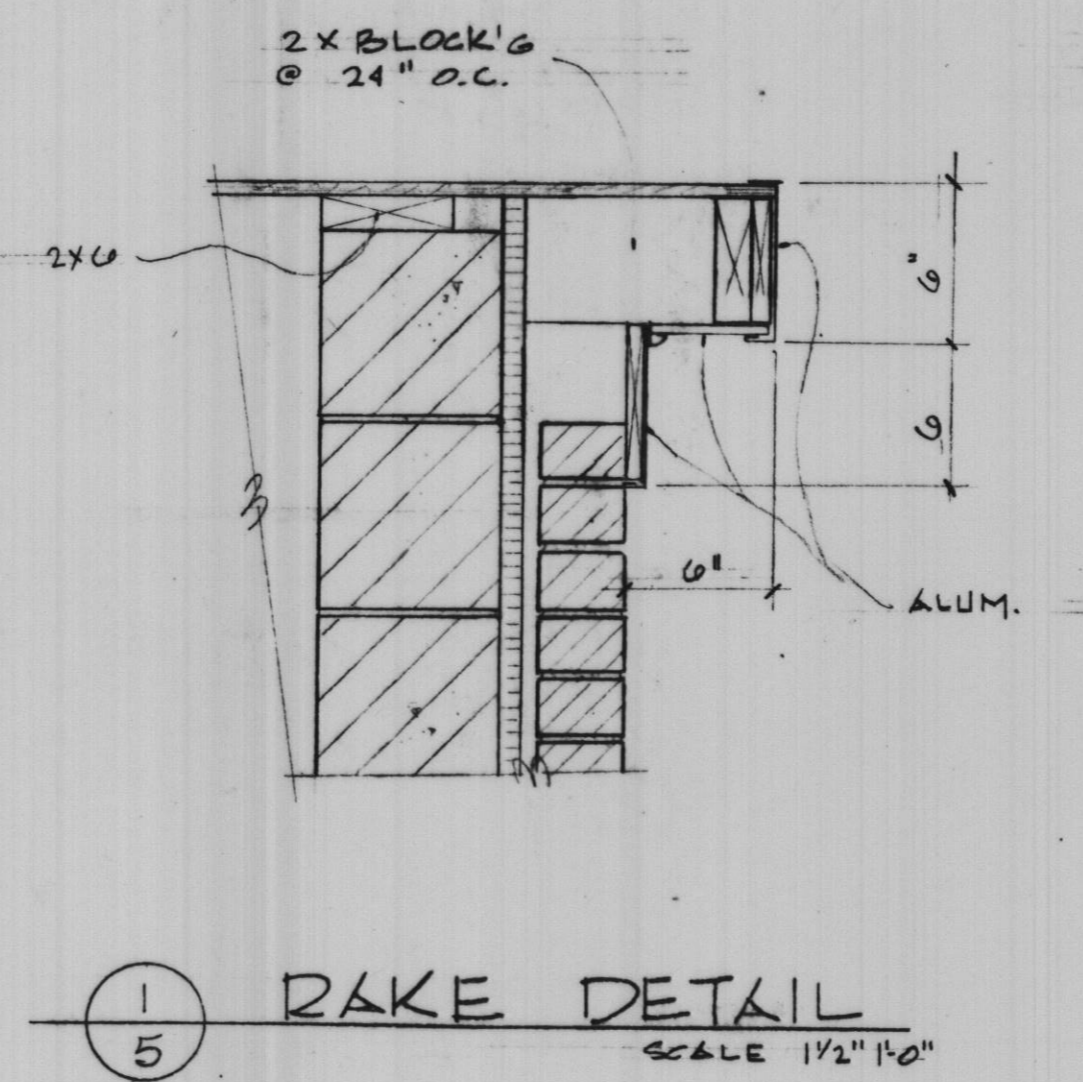
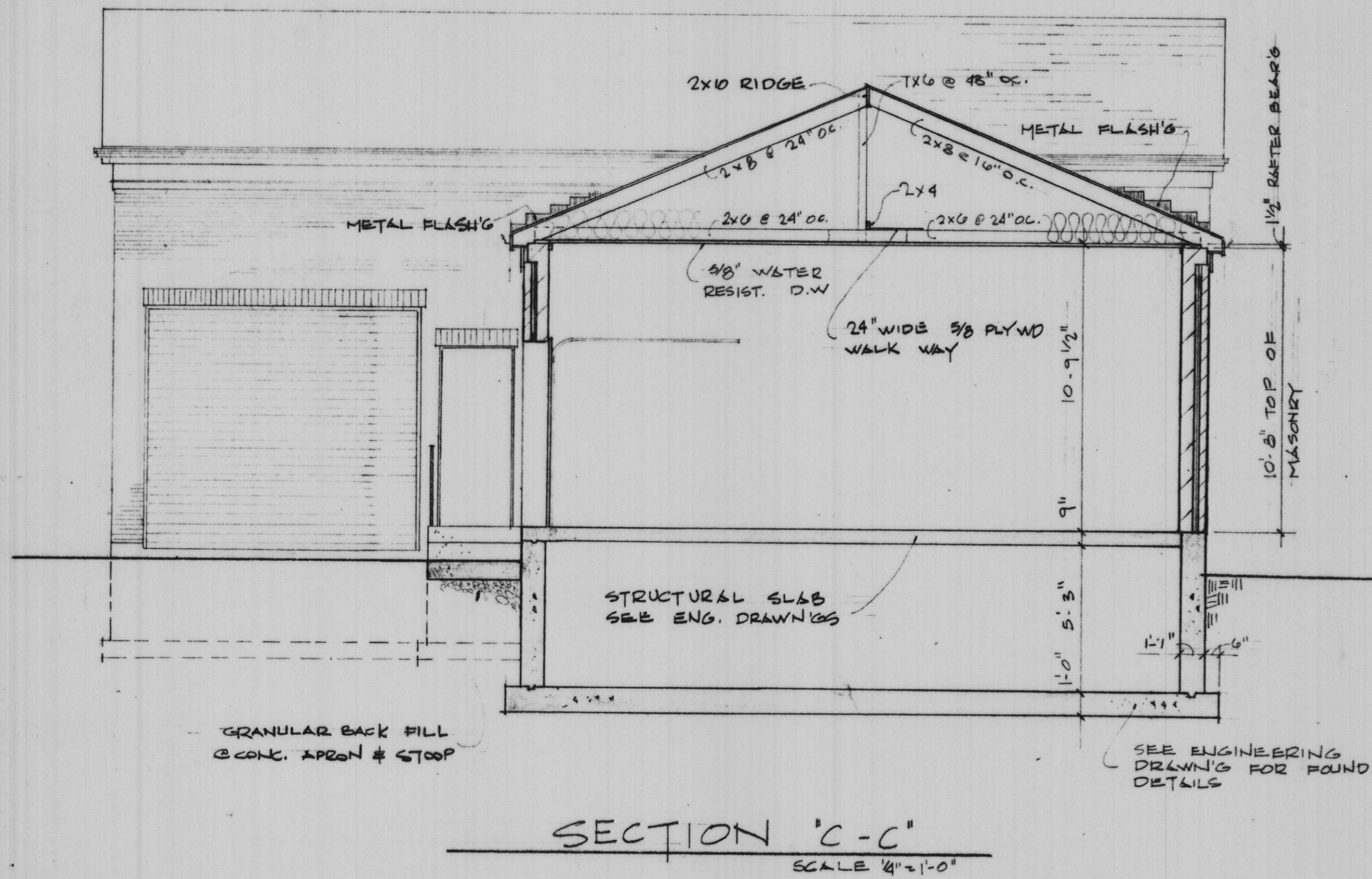
PLOTTED BY:	DATE	BY	REVISION DESCRIPTION	DATE	BY	REVISION DESCRIPTION
CHECKED BY:						
DRAWN BY:						
CHECKED BY:						
APPROVED BY:						



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ST. CHARLES, EAST DUNDEE & AURORA, ILLINOIS

**CITY OF ST. CHARLES**  
Riverside Pumping Station  
ELEVATIONS

PROJECT NO. 100-048  
SCALE AS SHOWN DATE: 11-13-81  
SHEET OF  
**A4 6**



"Record Drawing 6-4-83"

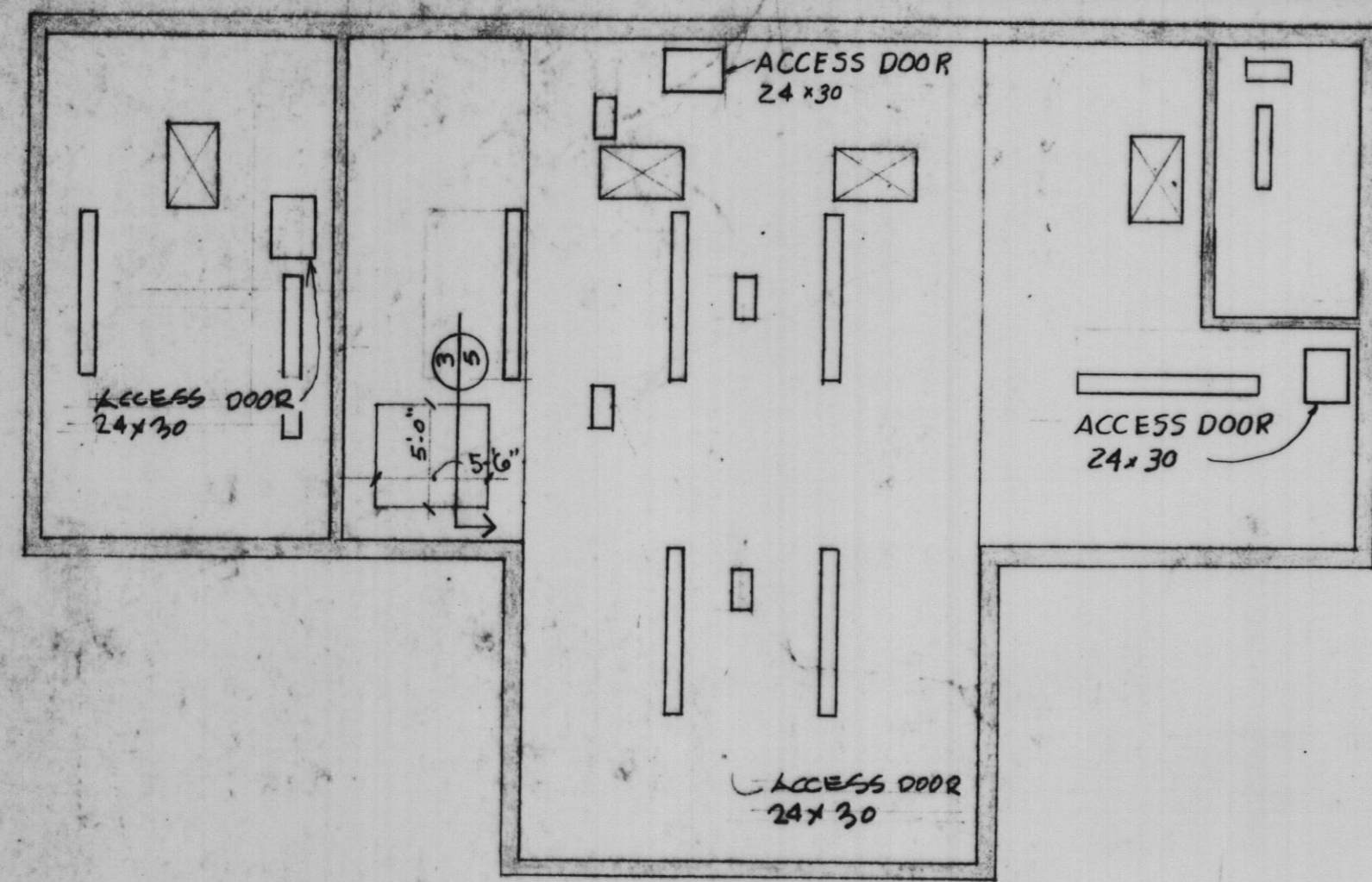
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CHECKED BY:						
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APPROVED BY:						



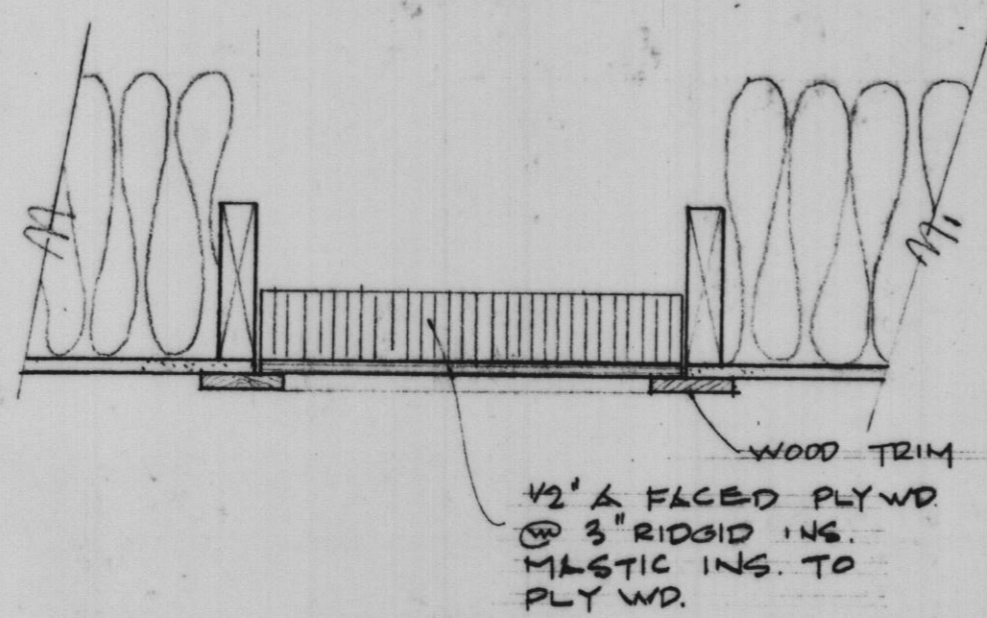
**ROBERT H. ANDERSON & ASSOCIATES, INC.**  
CONSULTING ENGINEERS  
ST. CHARLES, EAST DUNDEE & AURORA, ILLINOIS

**CITY OF ST. CHARLES**  
Riverside Pumping Station  
SECTIONS & DETAILS

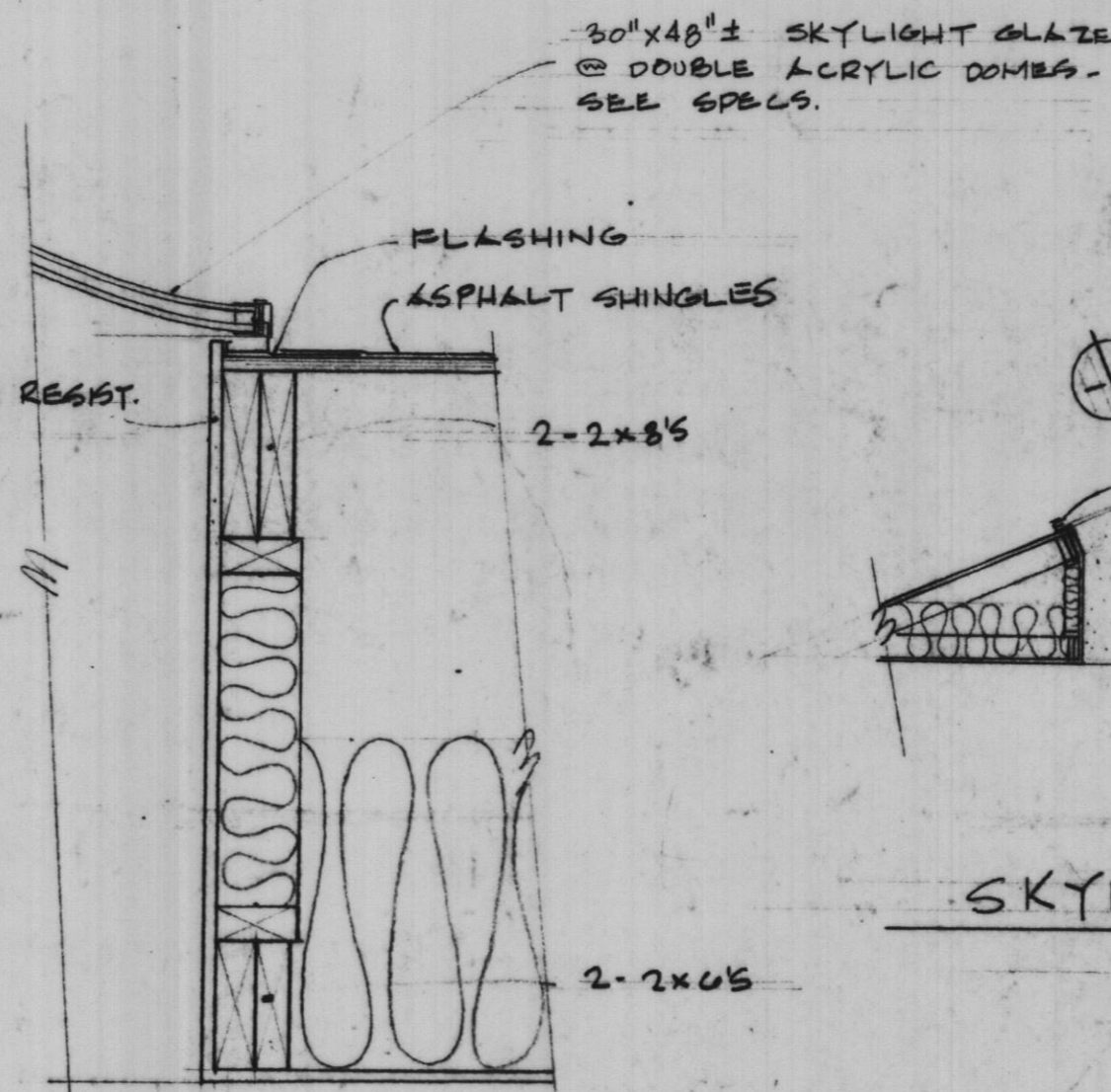
PROJECT NO. 100-048  
SCALE AS SHOWN DATE: 11-13-81  
SHEET OF  
**A5 6**



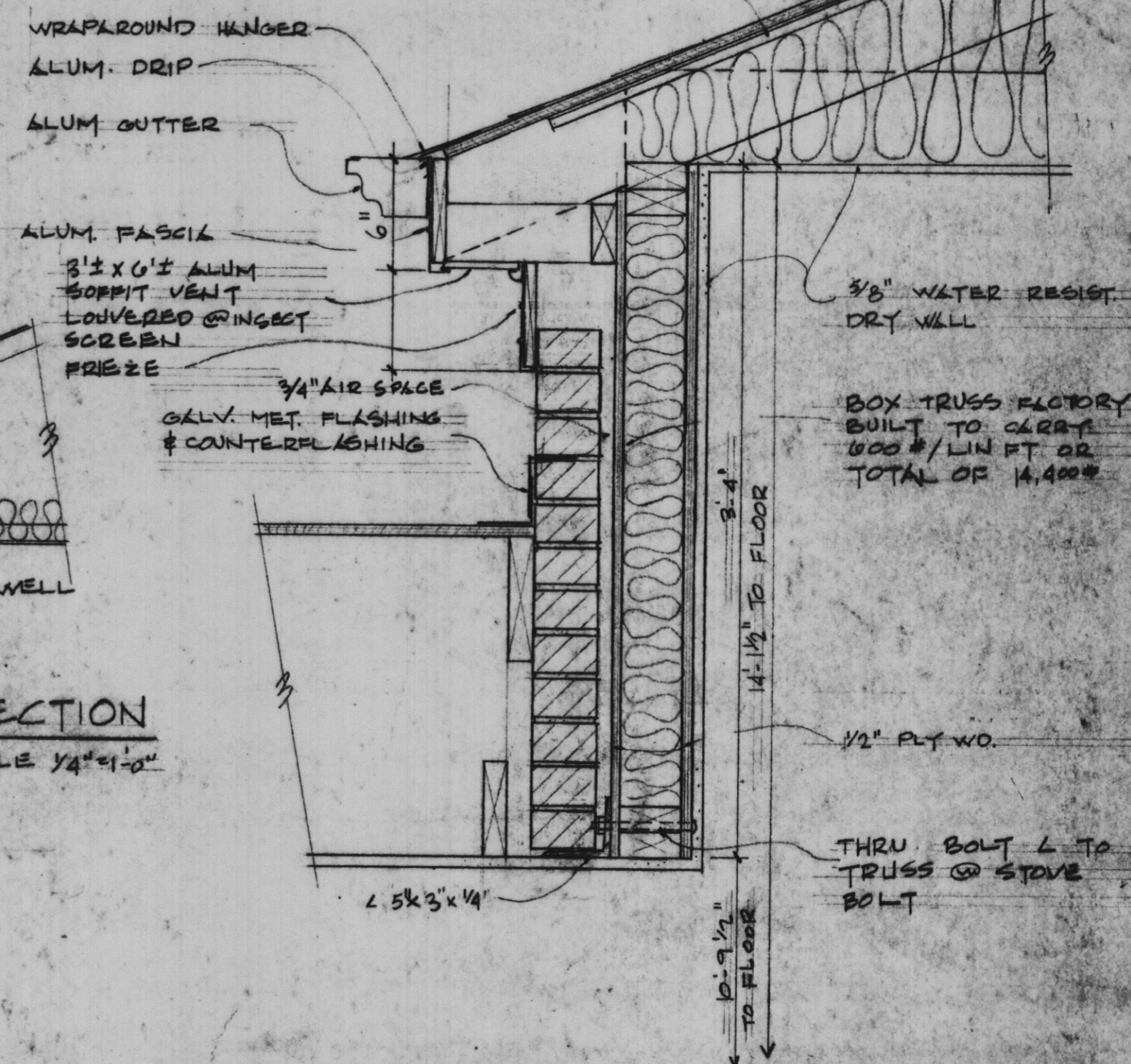
REFLECTED CEILING PLAN  
SCALE 1/8" = 1'-0"



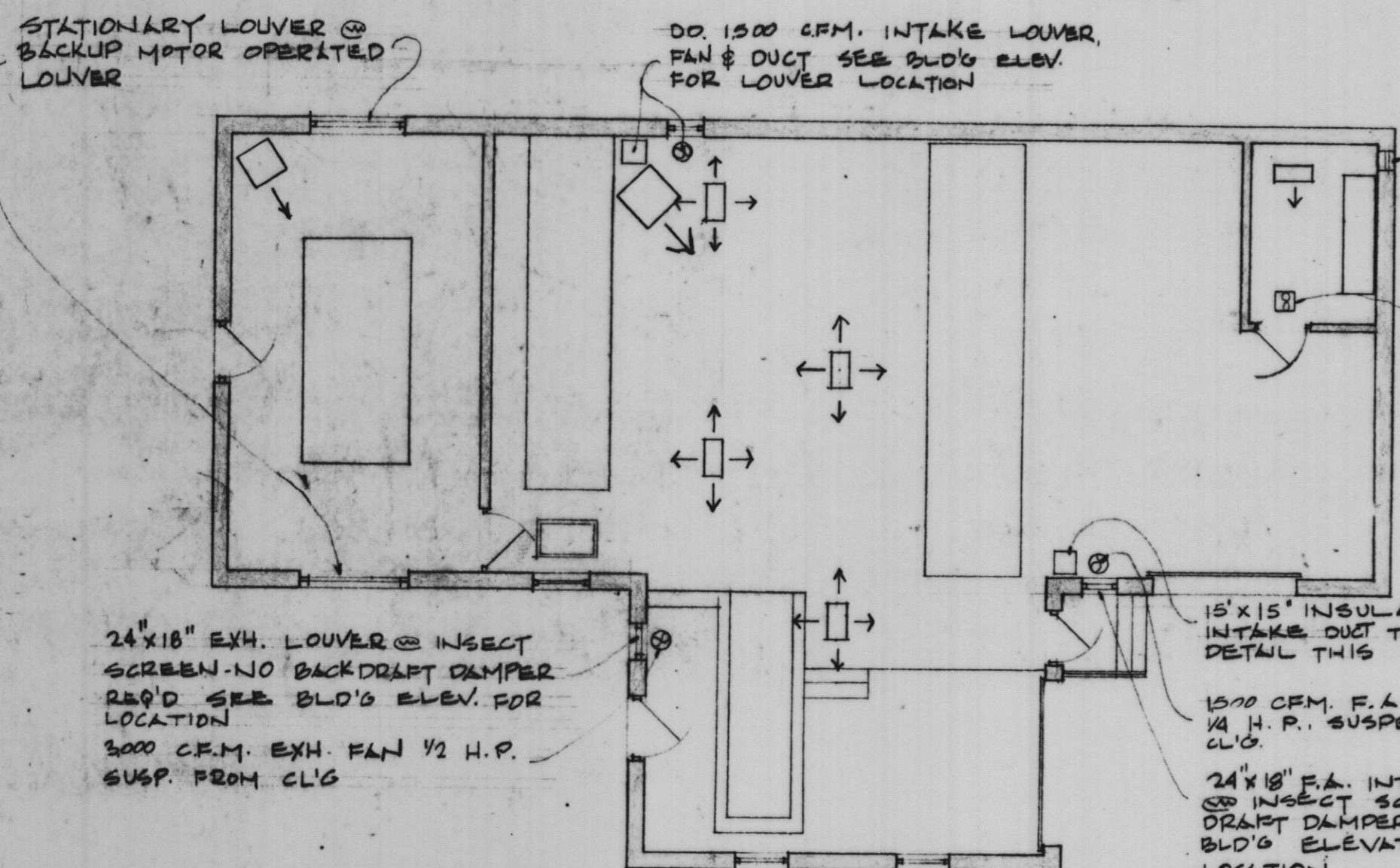
SECTION THRU ACCESS DOORS  
SCALE 1/4" = 1'-0"



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

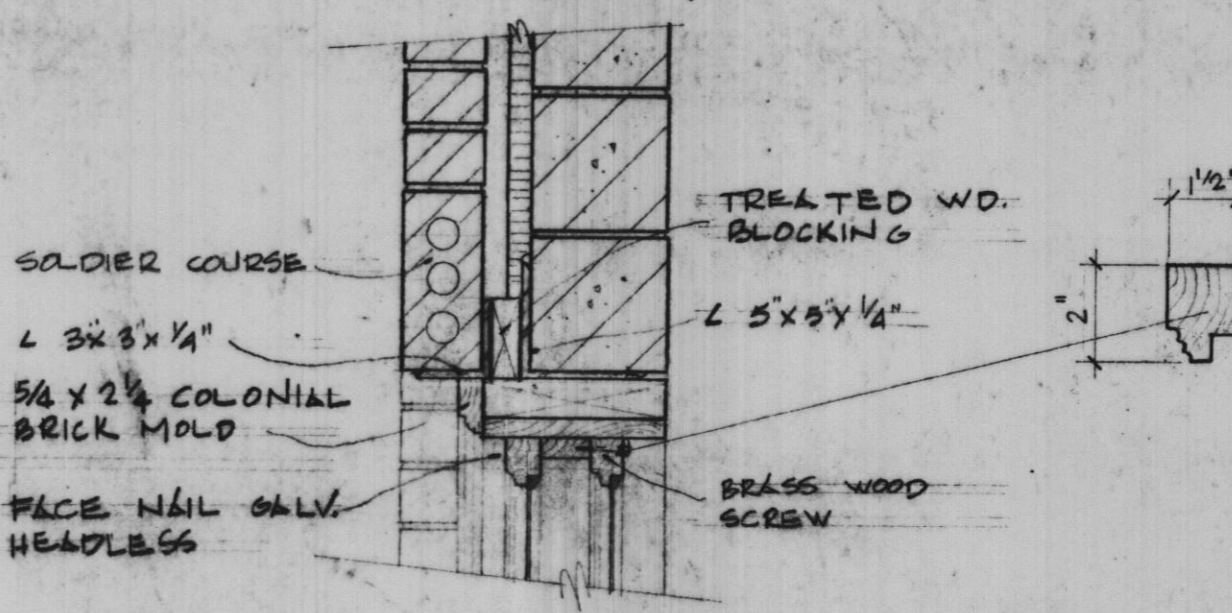


EAVE SECTION  
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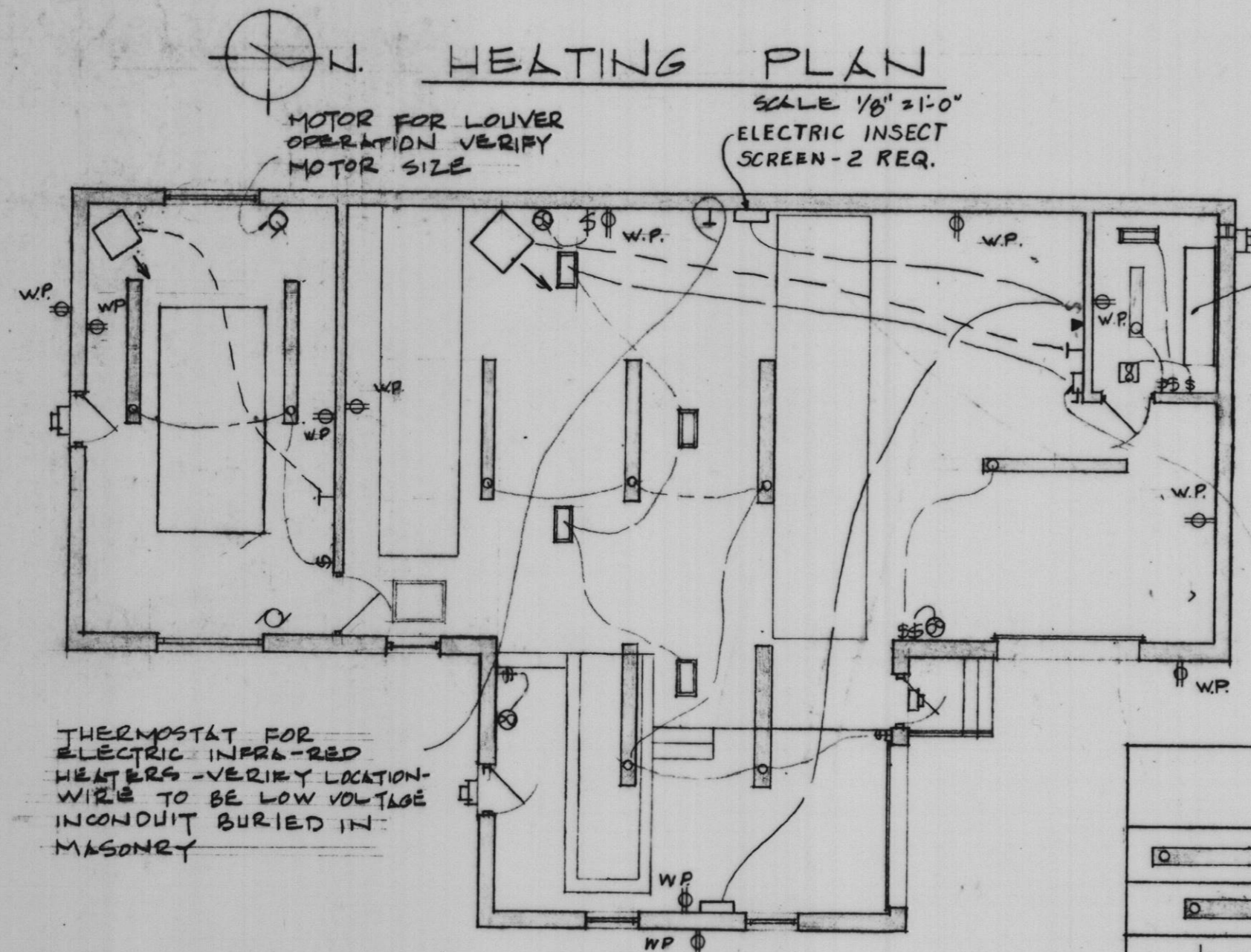
HEATING PLAN  
SCALE 1/8" = 1'-0"

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



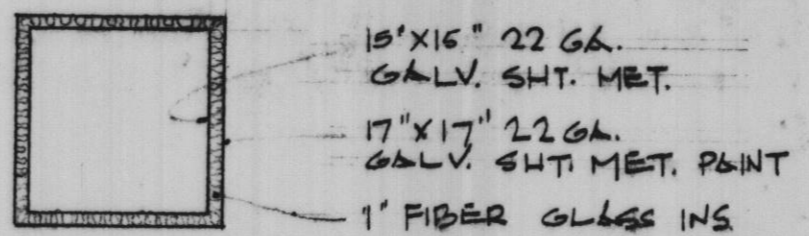
WINDOW HEAD DETAIL  
SCALE 1/2" = 1'-0"

MUNTIN DETAIL  
SCALE 3/4" = 1'-0"

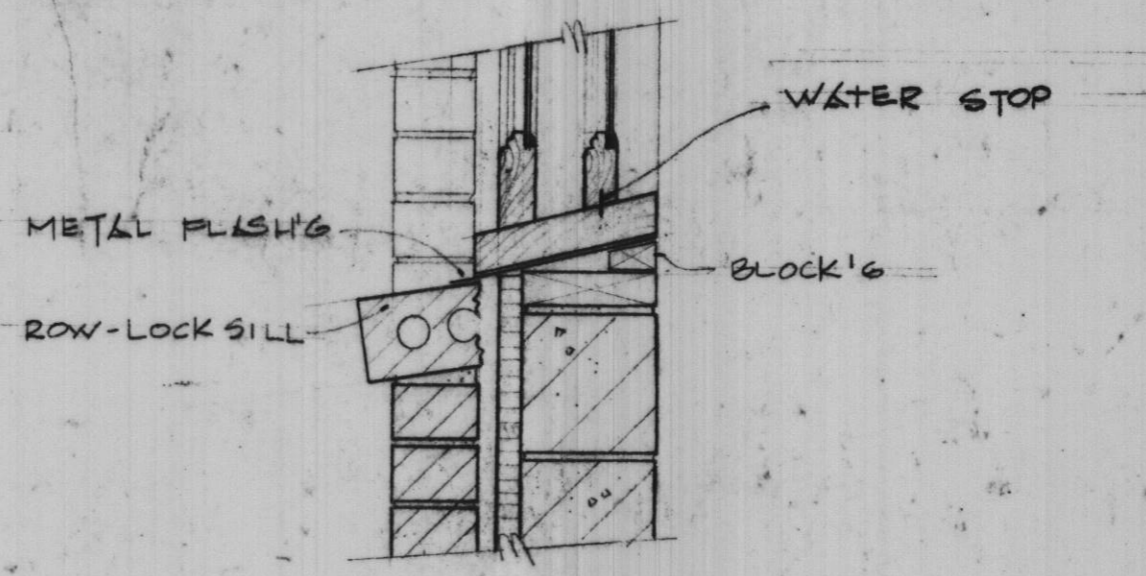


ELECTRICAL PLAN  
SCALE 1/8" = 1'-0"

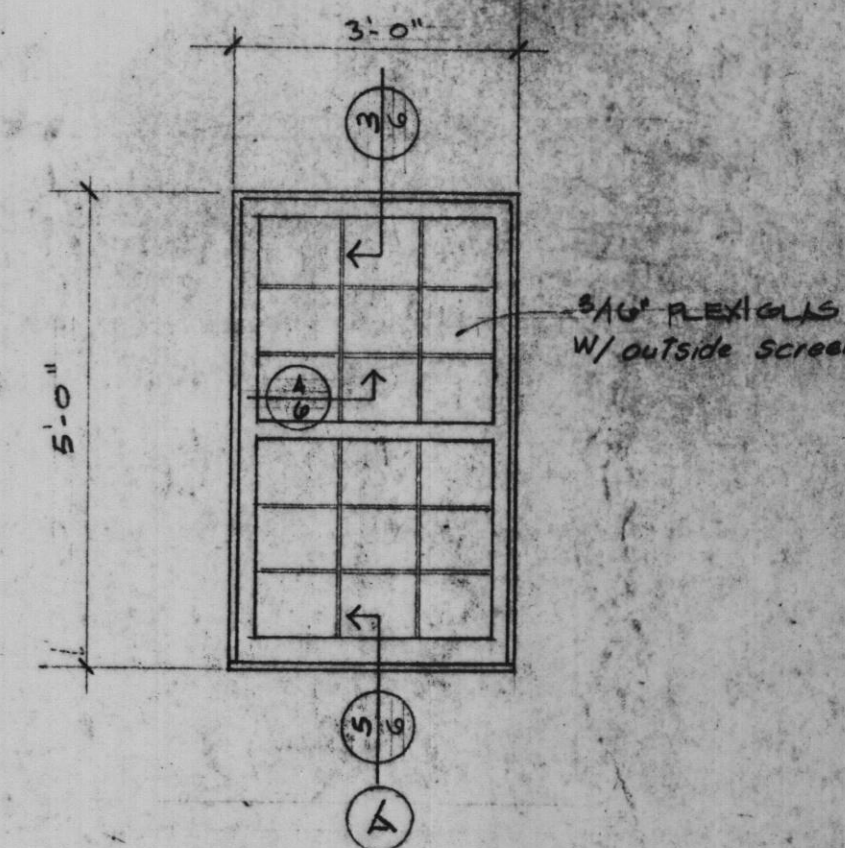
DUCT SECTION @ FLOOR  
SCALE 3/4" = 1'-0"



DUCT DETAIL  
SCALE 3/4" = 1'-0"



WINDOW SILL DETAIL  
SCALE 1/2" = 1'-0"



WINDOW SCHEDULE  
SCALE 1/2" = 1'-0"

FIXTURE SCHEDULE SEE SPECIFICATIONS	
	2 LAMP FLOOR, 8' FIX 192W
	2 LAMP FLOOR, 4' FIX 80W
	70W MIRC VAPOR WALL PACK ON TIMERS
	TELEPHONE
	INFRARED ELEC. HEATER
	NATURAL GAS HEATERS

PLOTTED BY:	DATE:	BY:	REVISION DESCRIPTION:	DATE:	BY:	REVISION DESCRIPTION:

**RH&A** ROBERT H. ANDERSON & ASSOCIATES, INC.  
CONSULTING ENGINEERS  
ST. CHARLES, EAST DUNDEE & AURORA, ILLINOIS

CITY OF ST. CHARLES  
Riverside Pumping Station  
MECHANICAL PLANS & DETAILS

PROJECT NO. 100-048  
SCALE AS SHOWN DATE: 11-15-81  
SHEET OF  
**A6 6**

"Record Drawing 6-4-83"