

SECTIONAL PLAN  
FLOOR EL. 23.67

ARLINGTON COUNTY  
VIRGINIA  
SEWAGE TREATMENT PLANT  
DIGESTION TANKS & CONTROL BLDG.  
PLAN OF SLUDGE PIPING  
(FLOOR EL. 23.67)

SCALE: 1/4" = 1'-0"  
DECEMBER, 1948

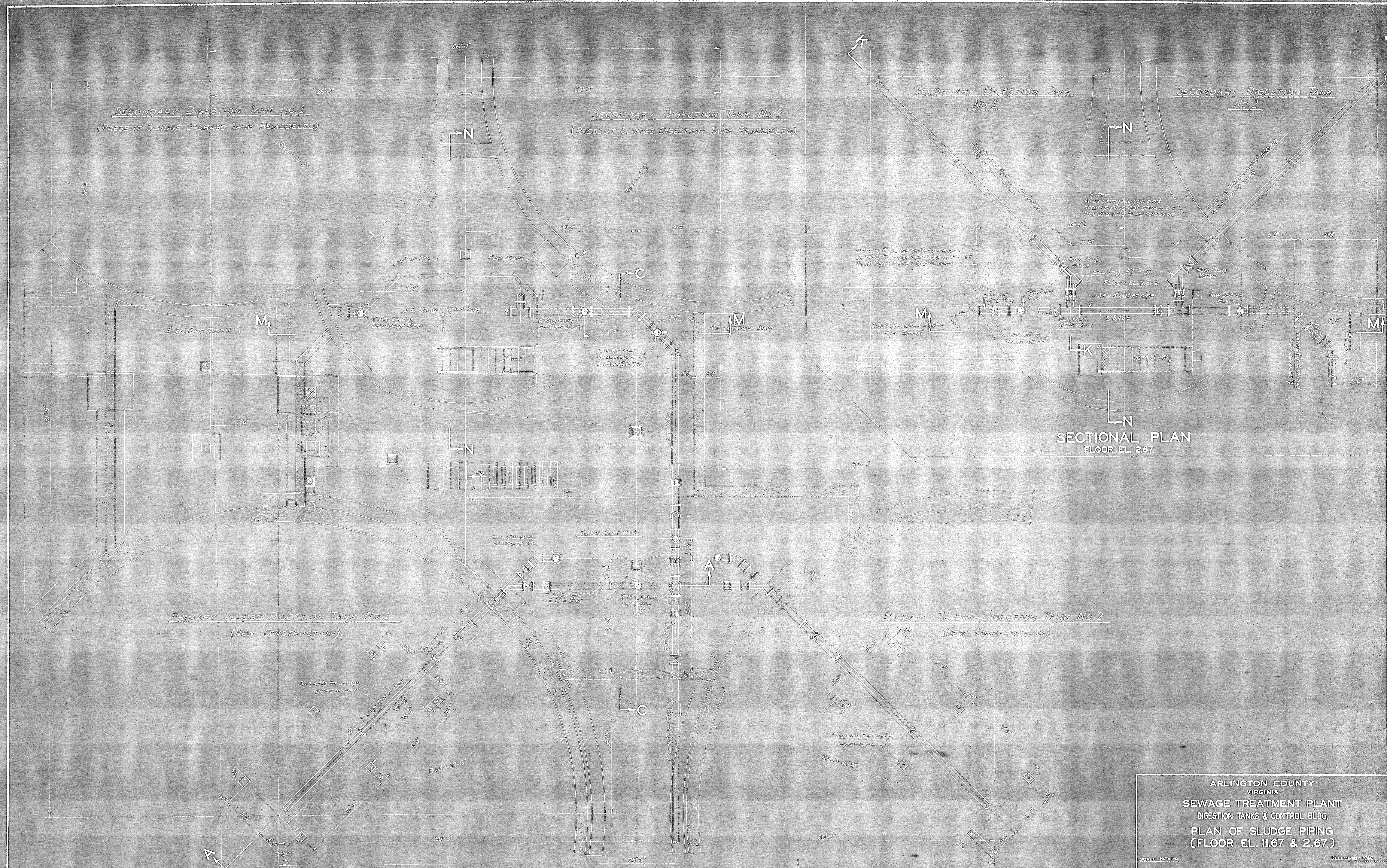
ALEXANDER POTTER ASSOCIATES  
CONSULTING ENGINEERS  
50 CHURCH STREET  
NEW YORK CITY

BY: *[Signature]*

31

SHEET NO. 31





SECONDARY DIGESTION TANK No. 1  
(PRESENT SLUDGE STORAGE TANK REMODELED)

SECONDARY DIGESTION TANK No. 2  
(PRESENT SLUDGE DIGESTION TANK REMODELED)

SECONDARY DIGESTION TANK No. 1

SECONDARY DIGESTION TANK No. 2

SECTIONAL PLAN  
FLOOR EL. 2.67

PRIMARY SLUDGE DIGESTION TANK No. 1  
(NEW CONSTRUCTION)

PRIMARY SLUDGE DIGESTION TANK No. 2  
(NEW CONSTRUCTION)

SECTIONAL PLAN  
FLOOR EL. 11.67

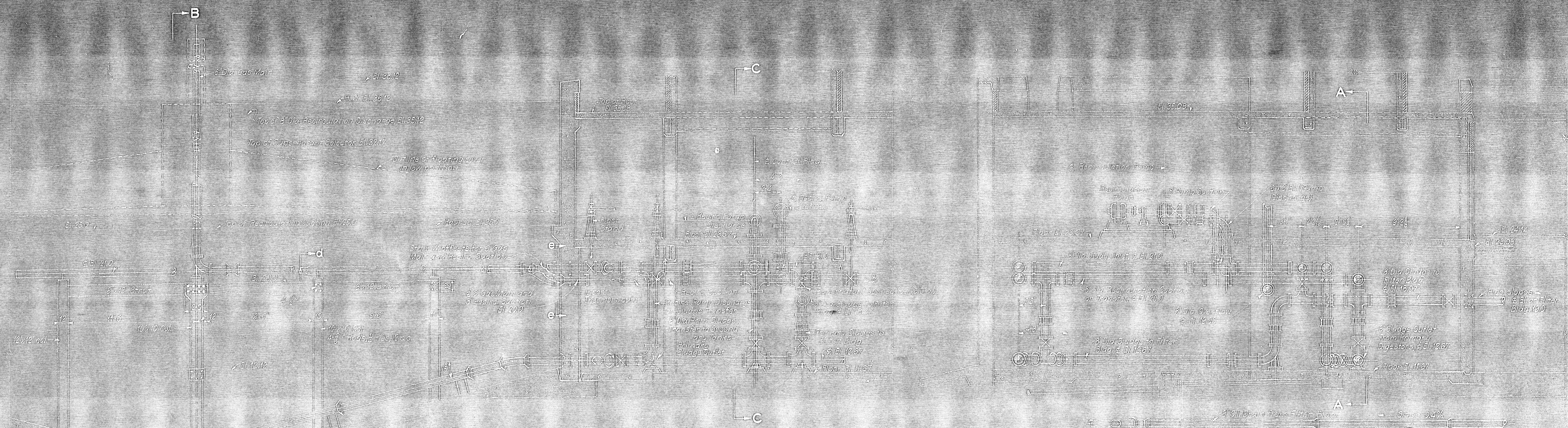
ARLINGTON COUNTY  
VIRGINIA  
SEWAGE TREATMENT PLANT  
DIGESTION TANKS & CONTROL BLDG.  
PLAN OF SLUDGE PIPING  
(FLOOR EL. 11.67 & 2.67)

SCALE: 1/4" = 1'-0"  
80 CHURCH STREET  
NEW YORK CITY

DECEMBER, 1946  
ALEXANDER POTTER ASSOCIATES  
CONSULTING ENGINEERS  
BY: *D. H. Blaylock*

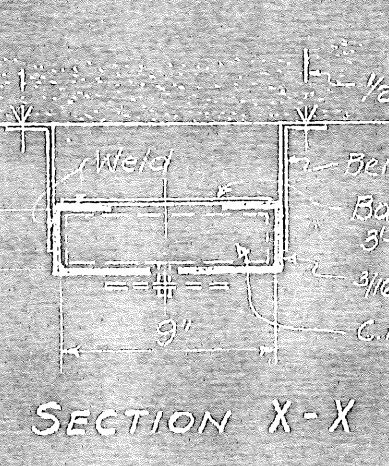
SHEET NO. 32



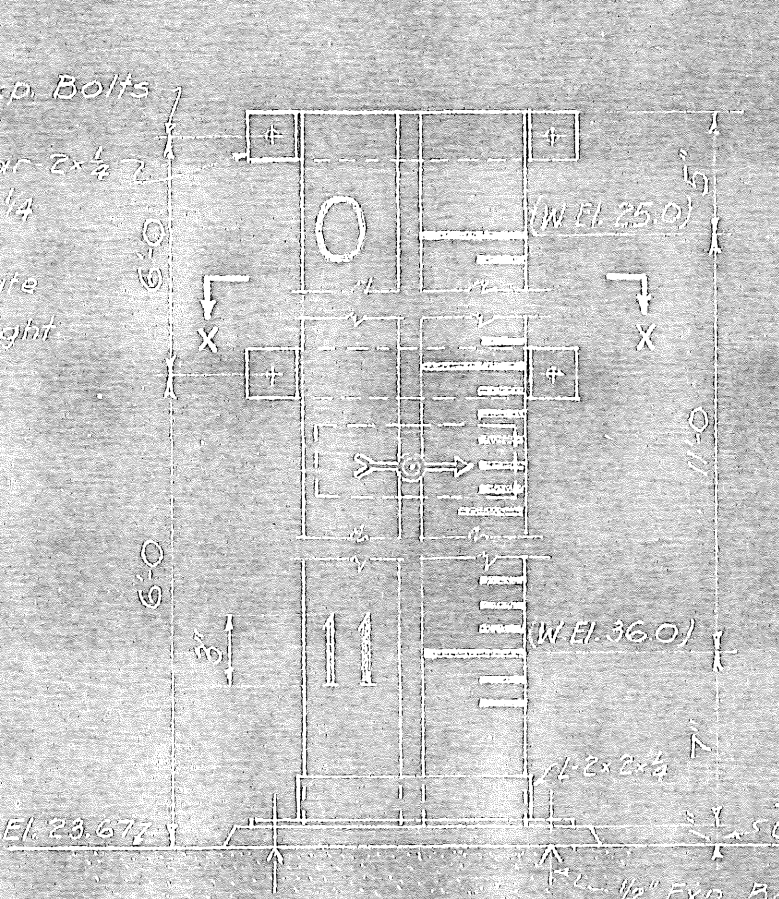


SECTION A-A

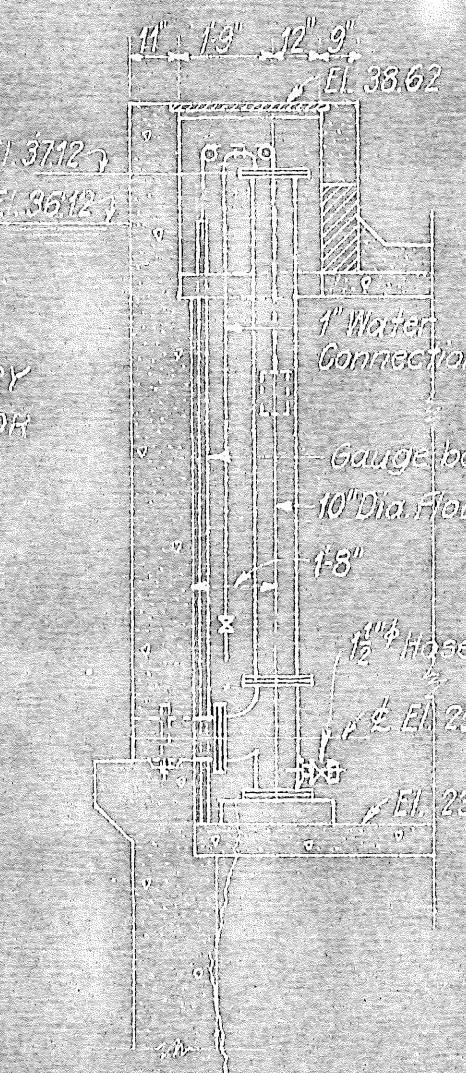
SECTION C-C



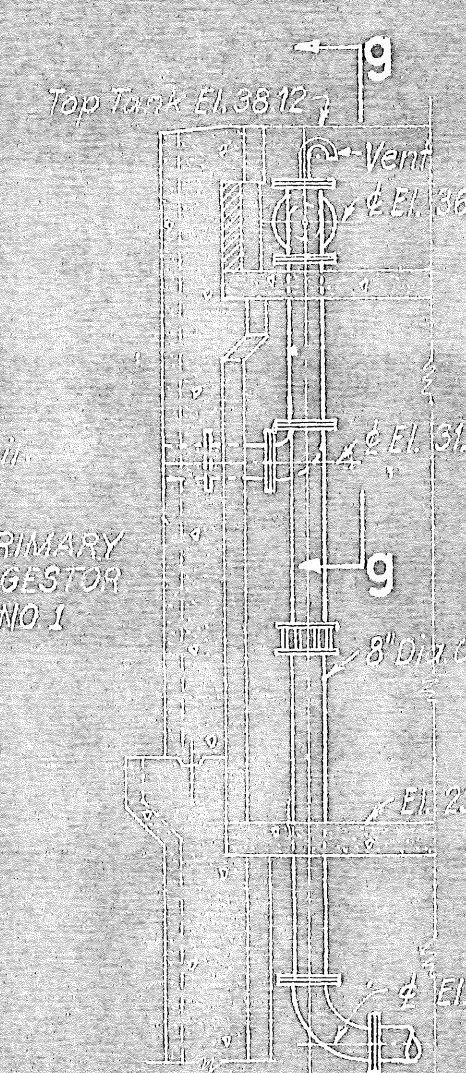
SECTION X-X



GAUGE BOARD DETAIL  
All materials to be approved  
4 Required  
From 1/2" to 4"



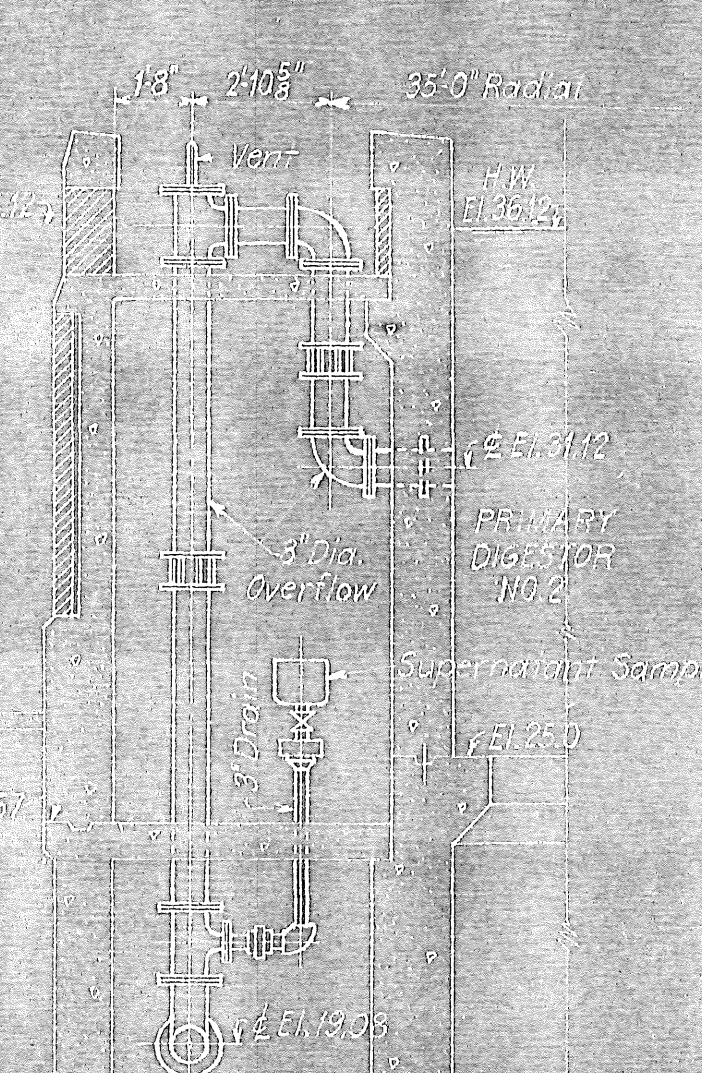
SECTION E-E



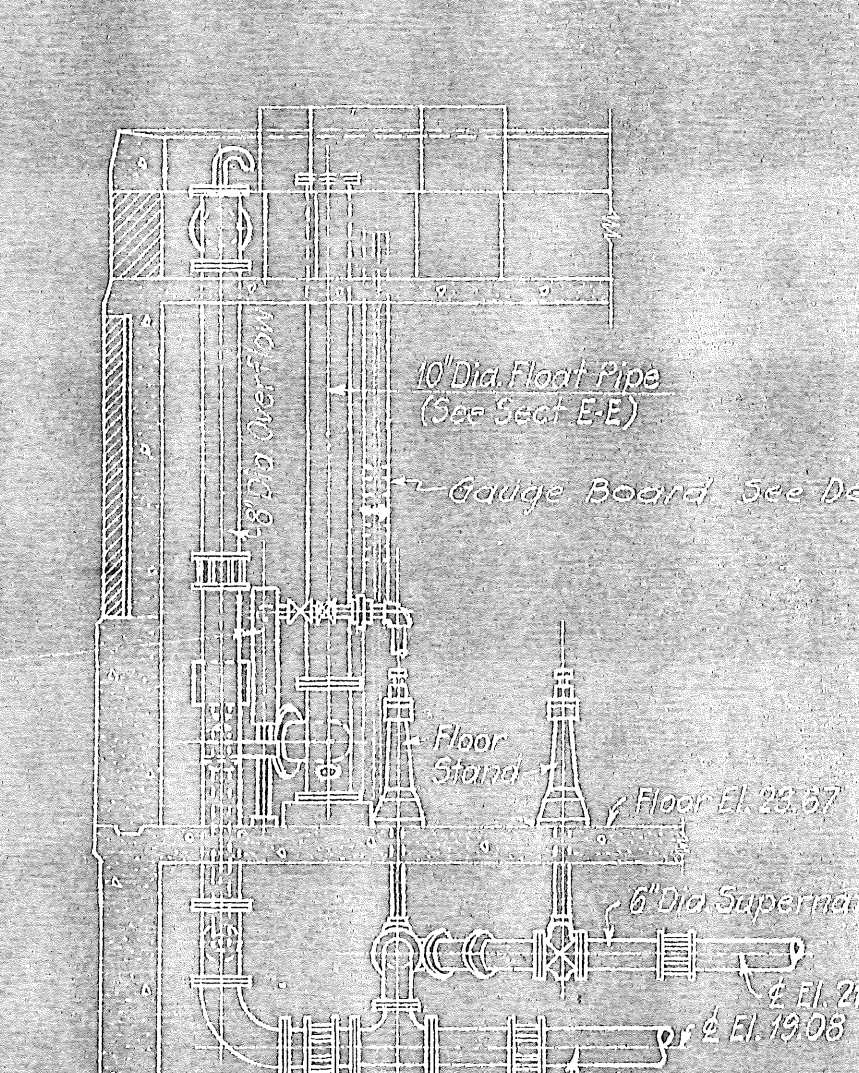
SECTION F-F



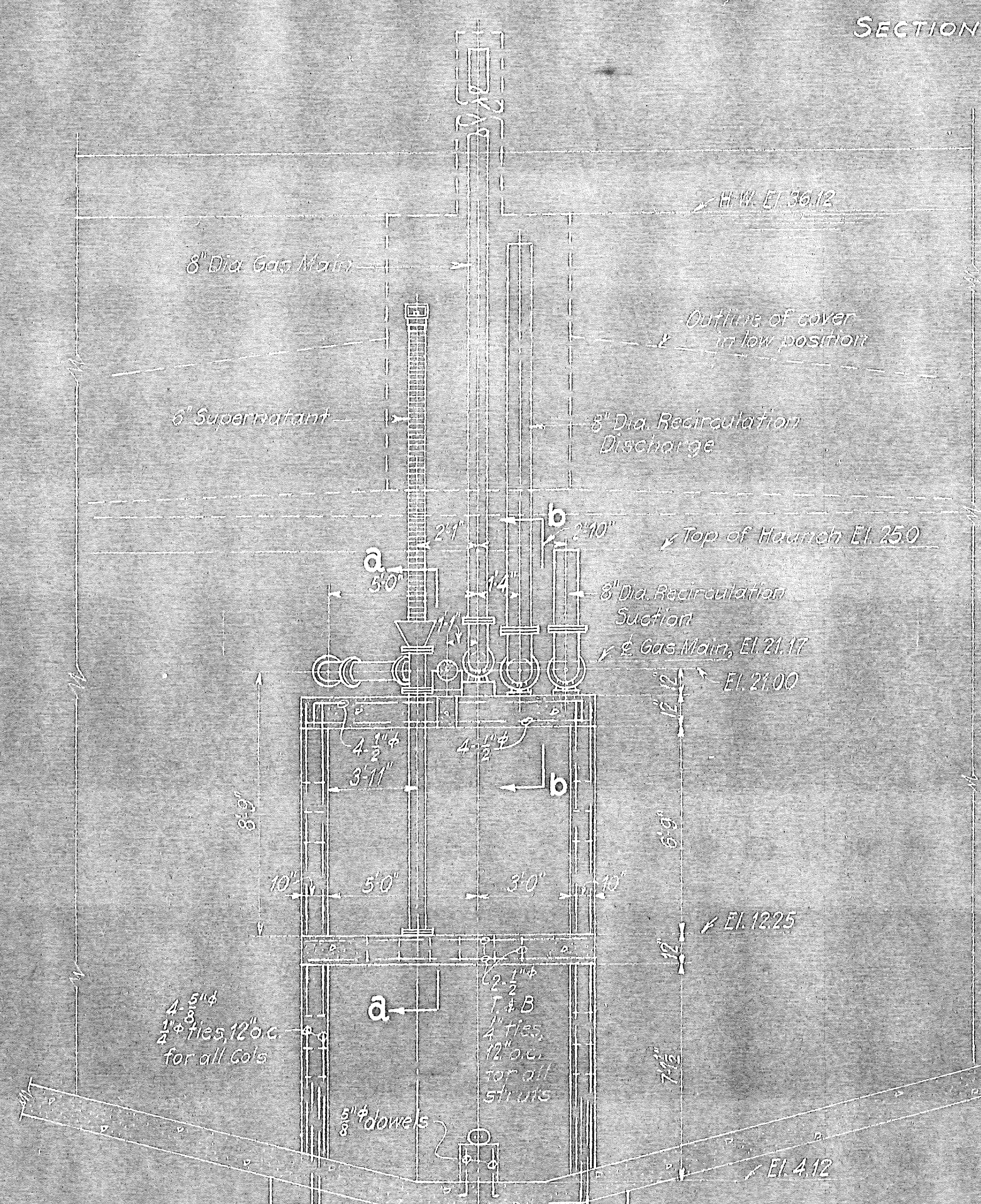
SECTION G-G



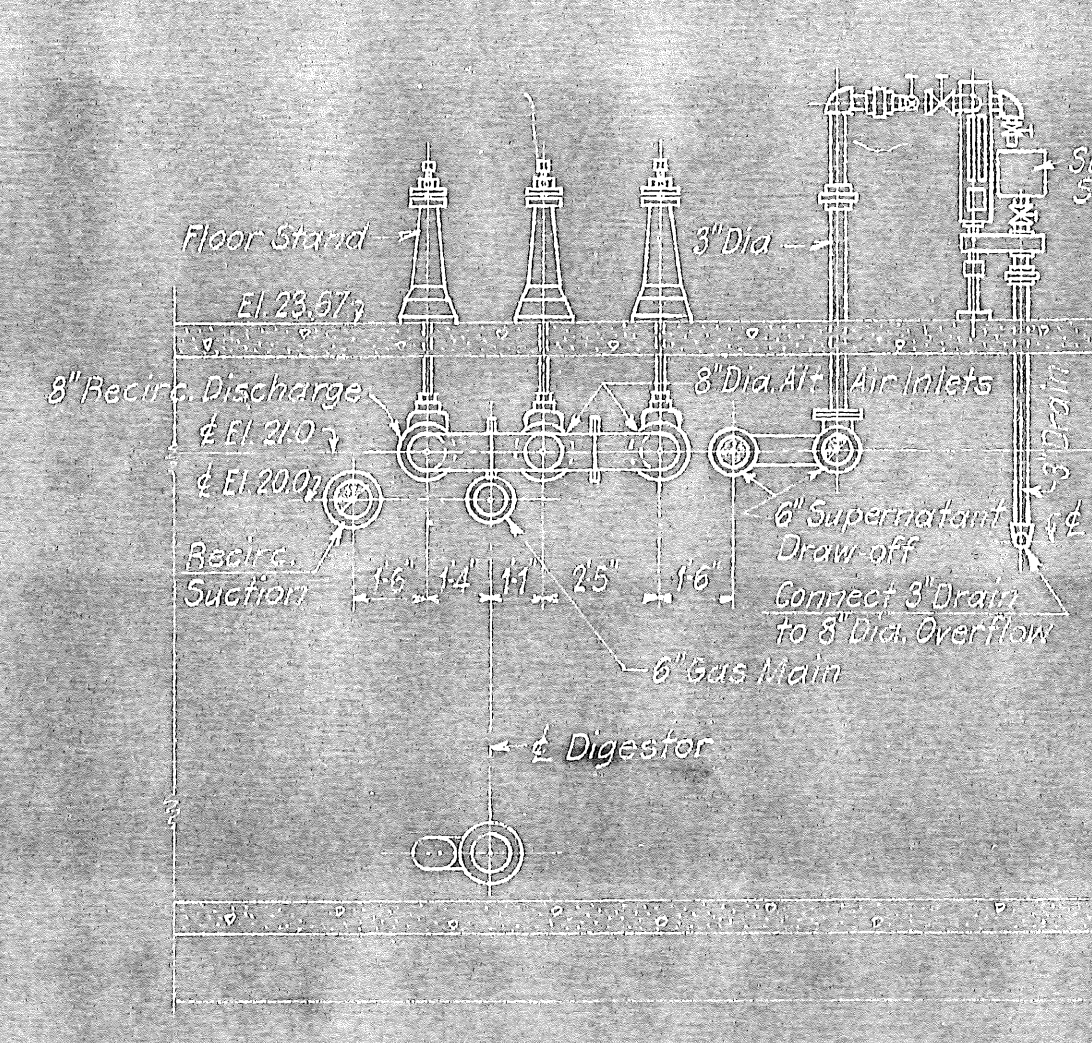
SECTION G-G



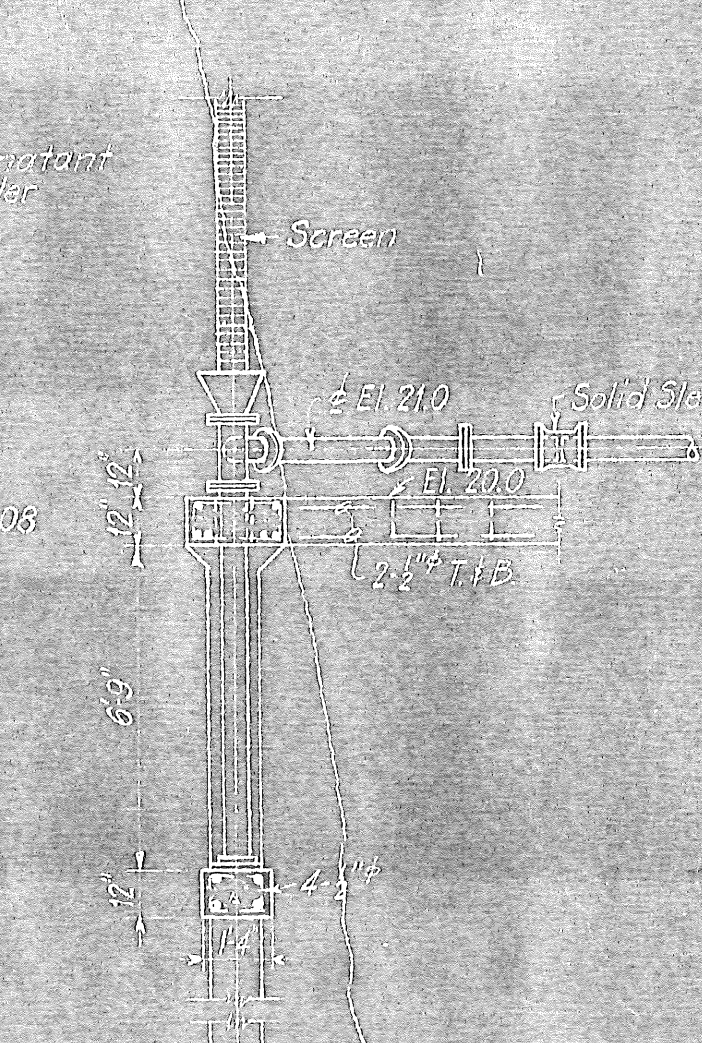
SECTION H-H



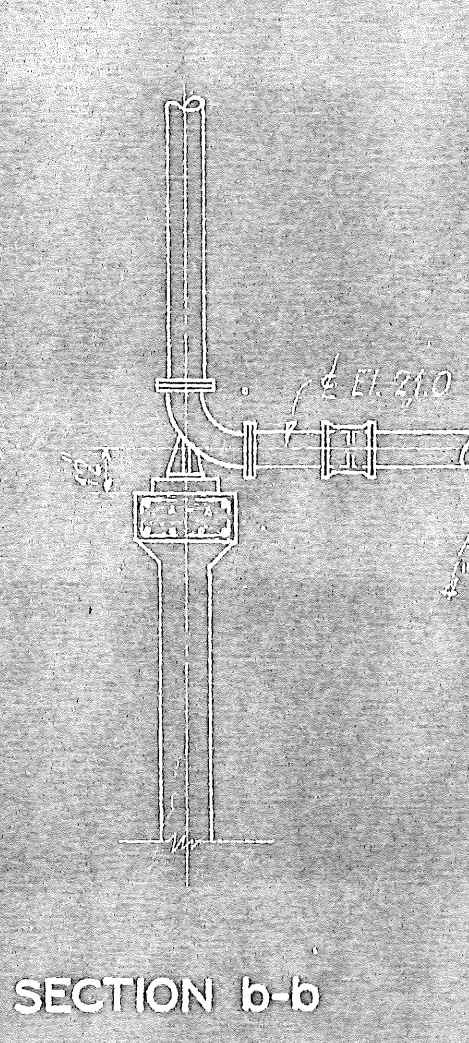
SECTION B-B



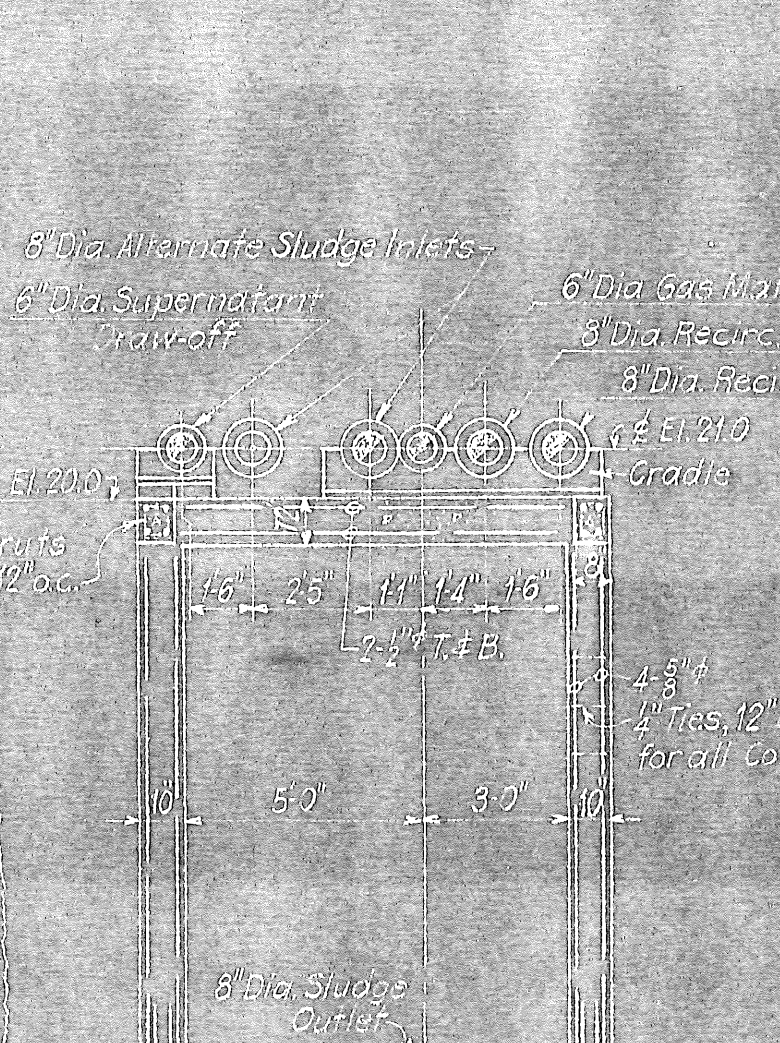
SECTION D-D



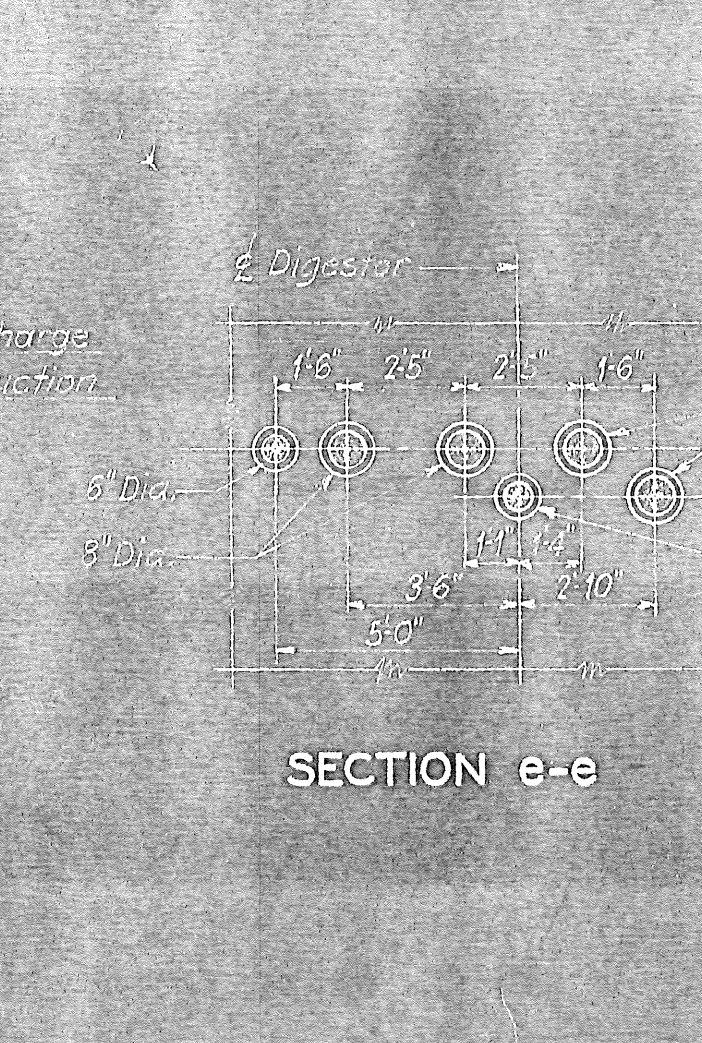
SECTION a-a



SECTION b-b



SECTION d-d



SECTION e-e

ARLINGTON COUNTY  
VIRGINIA  
**SEWAGE TREATMENT PLANT**  
DIGESTION TANKS & CONTROL BLDG.  
SECTIONS OF SLUDGE PIPING

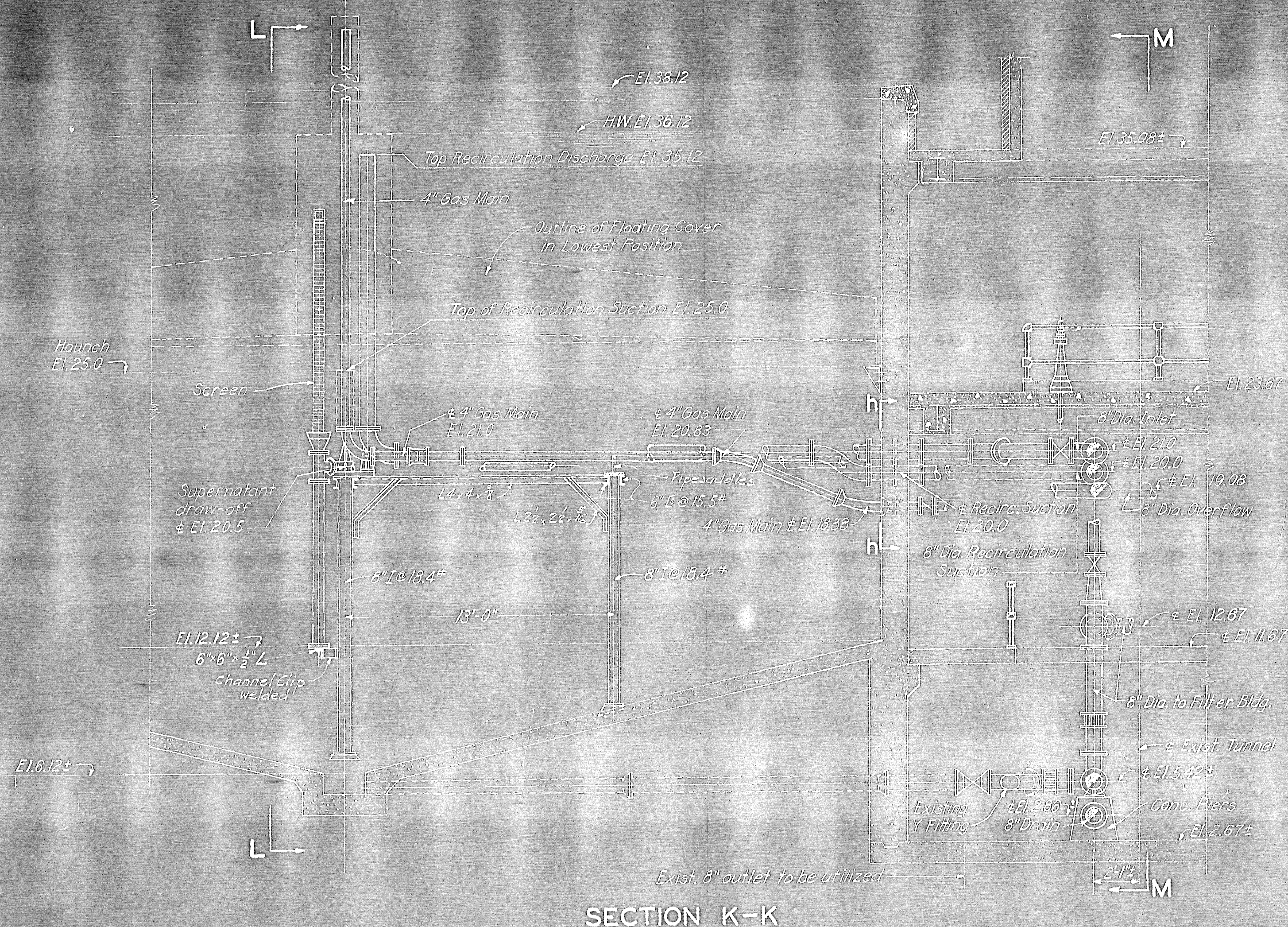
SCALE: 1/4" = 1'-0"      DECEMBER, 1948

ALEXANDER POTTER ASSOCIATES  
CONSULTING ENGINEERS

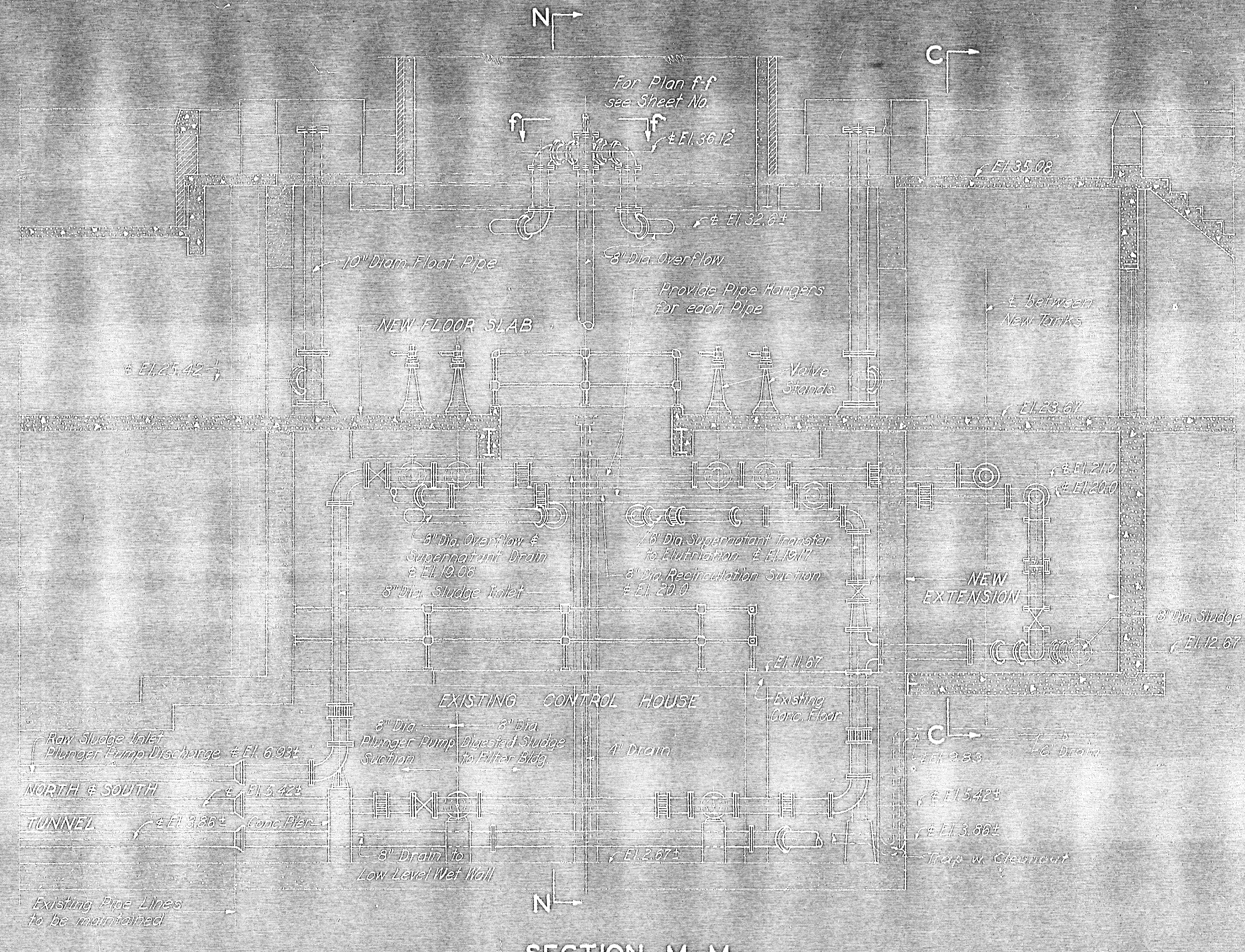
50 CHURCH STREET  
NEW YORK CITY

BY: *Alexander Potter*

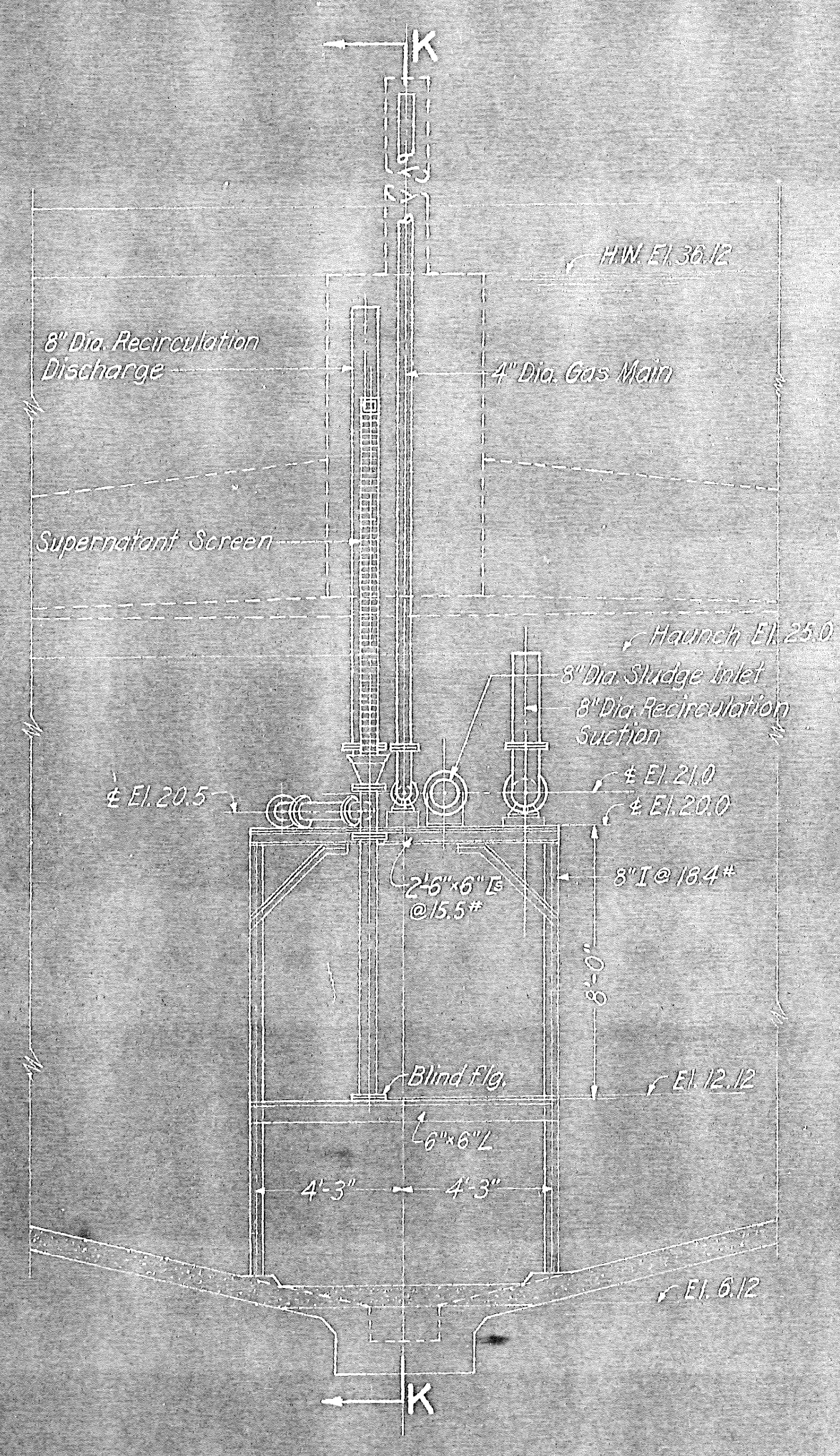




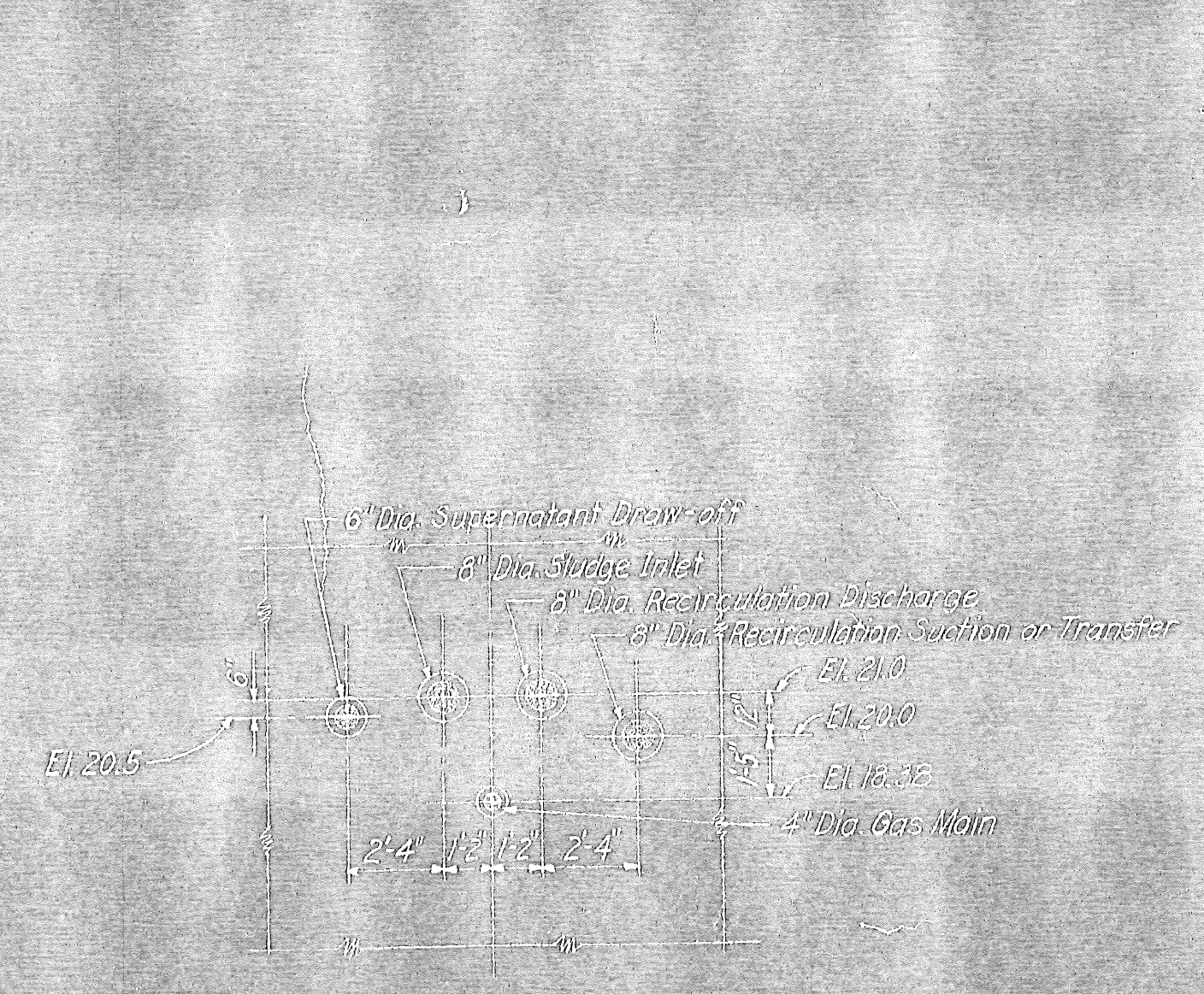
SECTION K-K



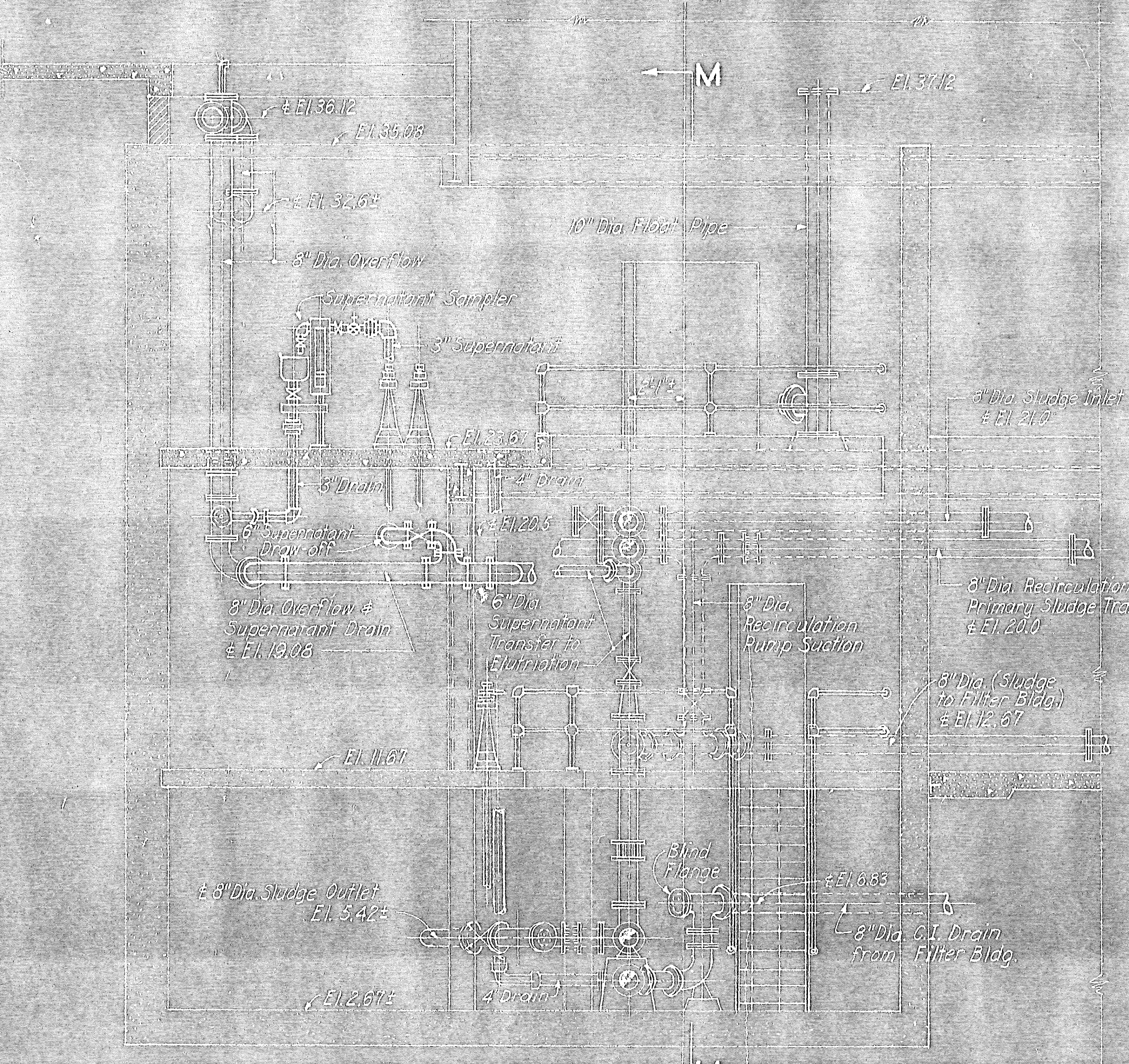
SECTION M-M



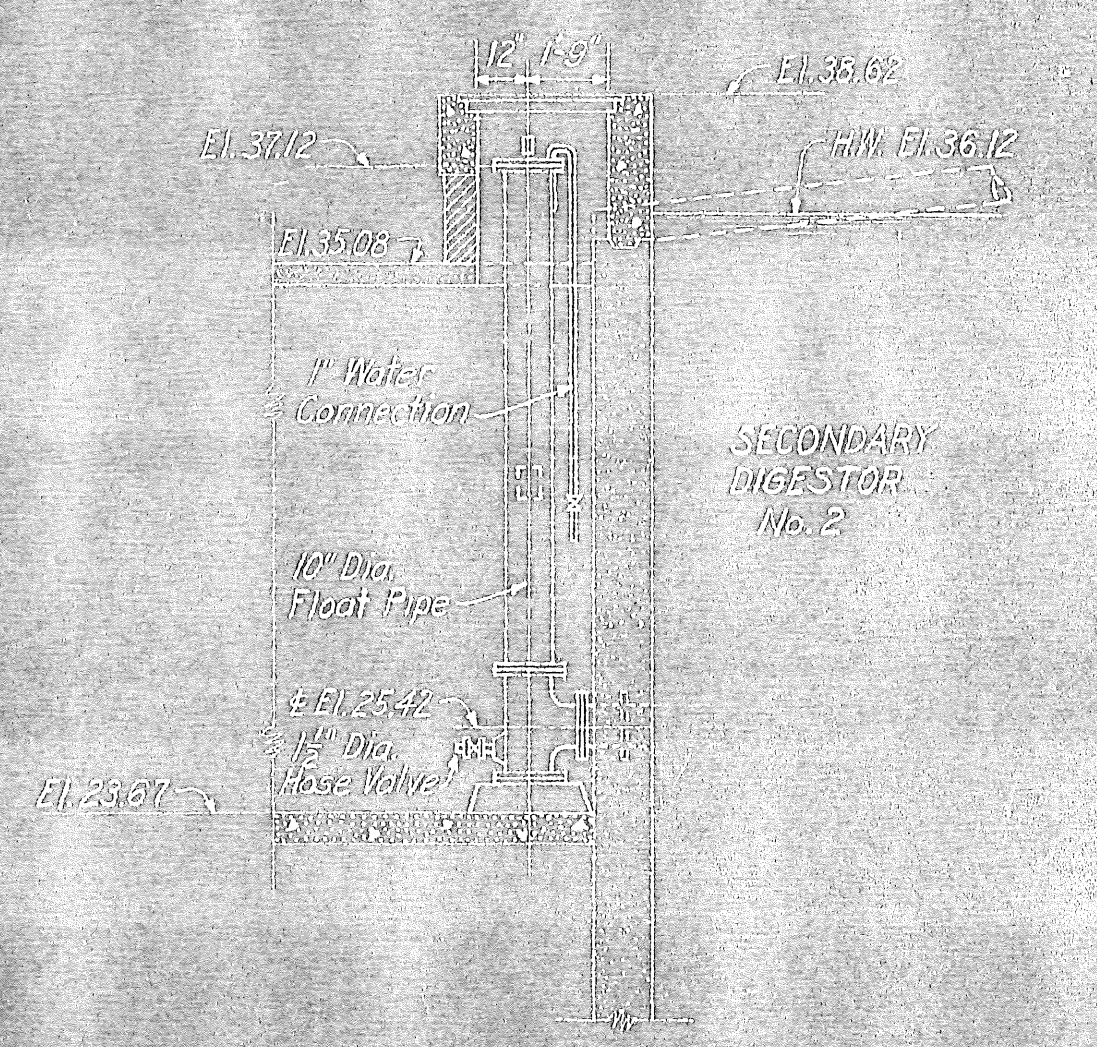
SECTION L-L



SECTION h-h  
PIPING AT TANK WALL



SECTION N-N



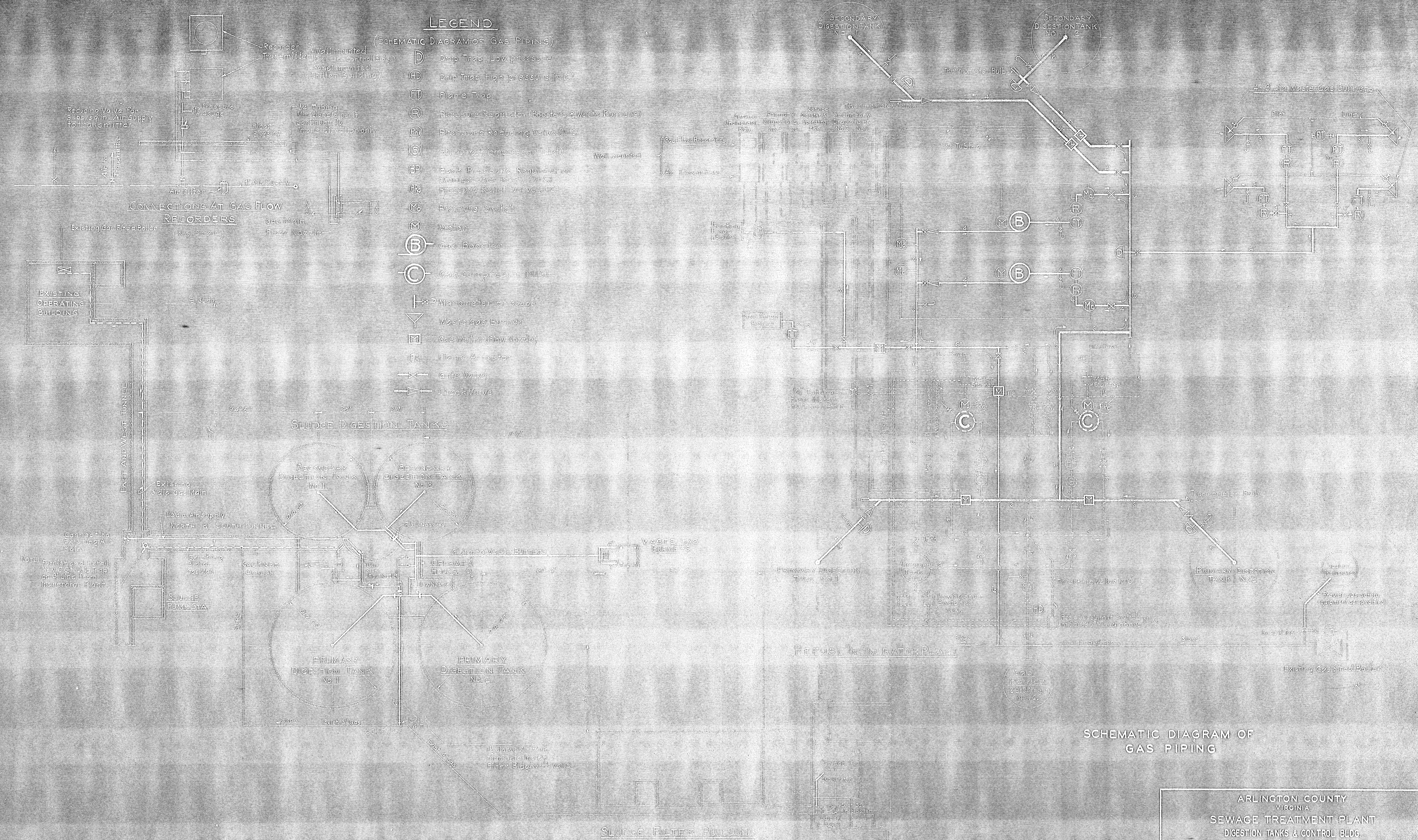
SECTION O-O

ARLINGTON COUNTY  
VIRGINIA  
SEWAGE TREATMENT PLANT  
DIGESTION TANKS & CONTROL BLDG.  
SECTIONS OF SLUDGE PIPING

SCALE: 1/4" = 1'-0"  
50 CHURCH STREET  
NEW YORK CITY

December, 1949  
ALEXANDER POTTER ASSOCIATES  
CONSULTING ENGINEERS  
BY: [Signature]





**LEGEND**

- (SCHEMATIC DIAGRAM OF GAS PIPING)
- D Drip Trap, Low pressure
  - HD Drip Trap, High pressure (W.C.)
  - FT Flame Trap
  - R Pressure Reducing Valve (W.C.)
  - PR Pressure Reducing Valve (W.C.)
  - GC Gas Compressor (W.C.)
  - CB Gas Booster
  - M Motor
  - Manometer
  - Waste Gas Burner
  - Gas Meter (Flow Nozzle)
  - Flame Arrester
  - Gate Valve
  - Check Valve

**GENERAL PLAN OF GAS DISTRIBUTION**  
SCALE: 1" = 20'

**SCHEMATIC DIAGRAM OF GAS PIPING**

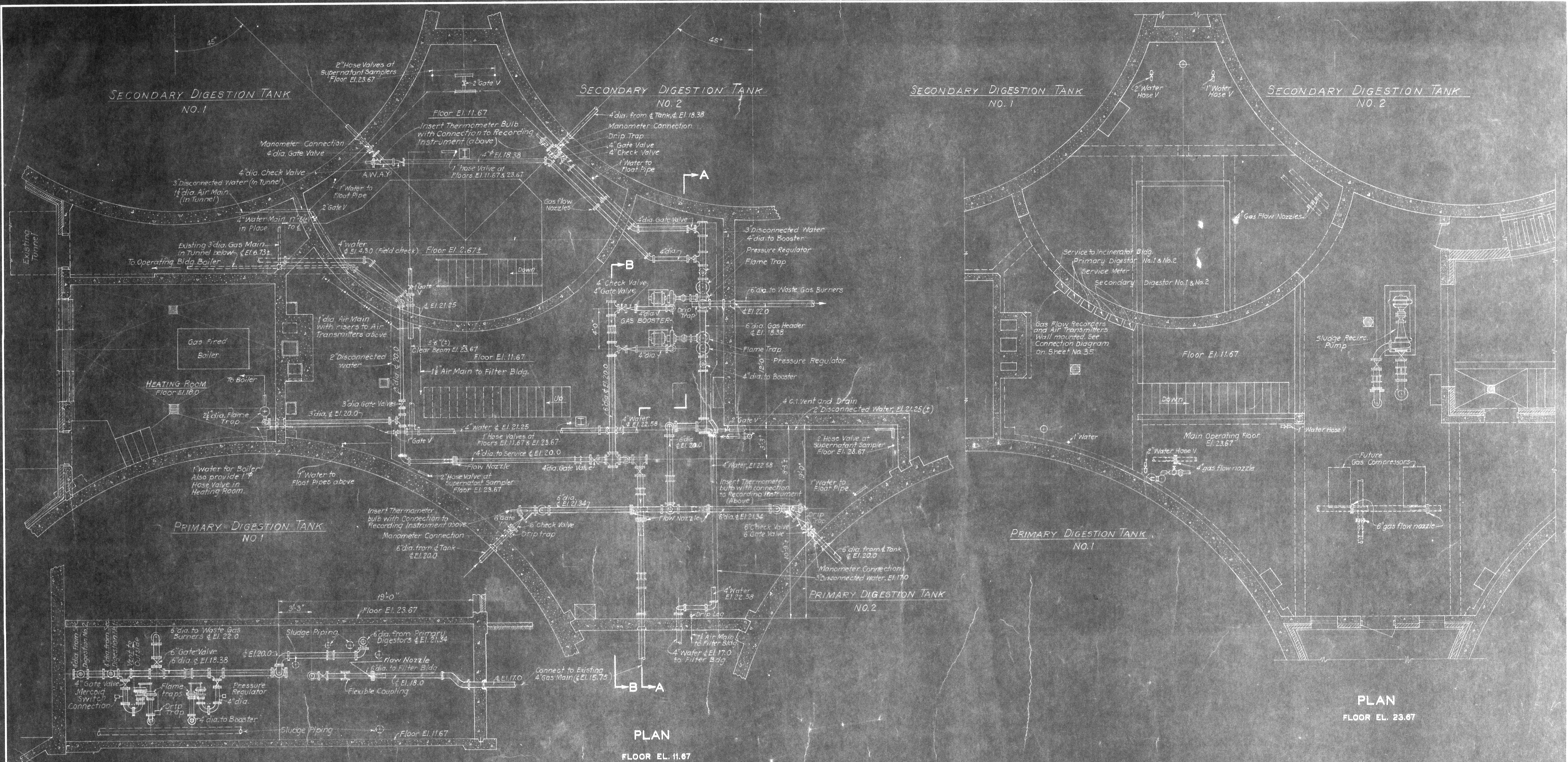
ARLINGTON COUNTY  
VIRGINIA  
SEWAGE TREATMENT PLANT  
DIGESTION TANKS & CONTROL BLDG.  
GENERAL PLAN & DIAGRAM OF GAS PIPING

SCALE: 1" = 20'      DRAWN: 1948

ALEXANDER POTTER ASSOCIATES  
CONSULTING ENGINEERS

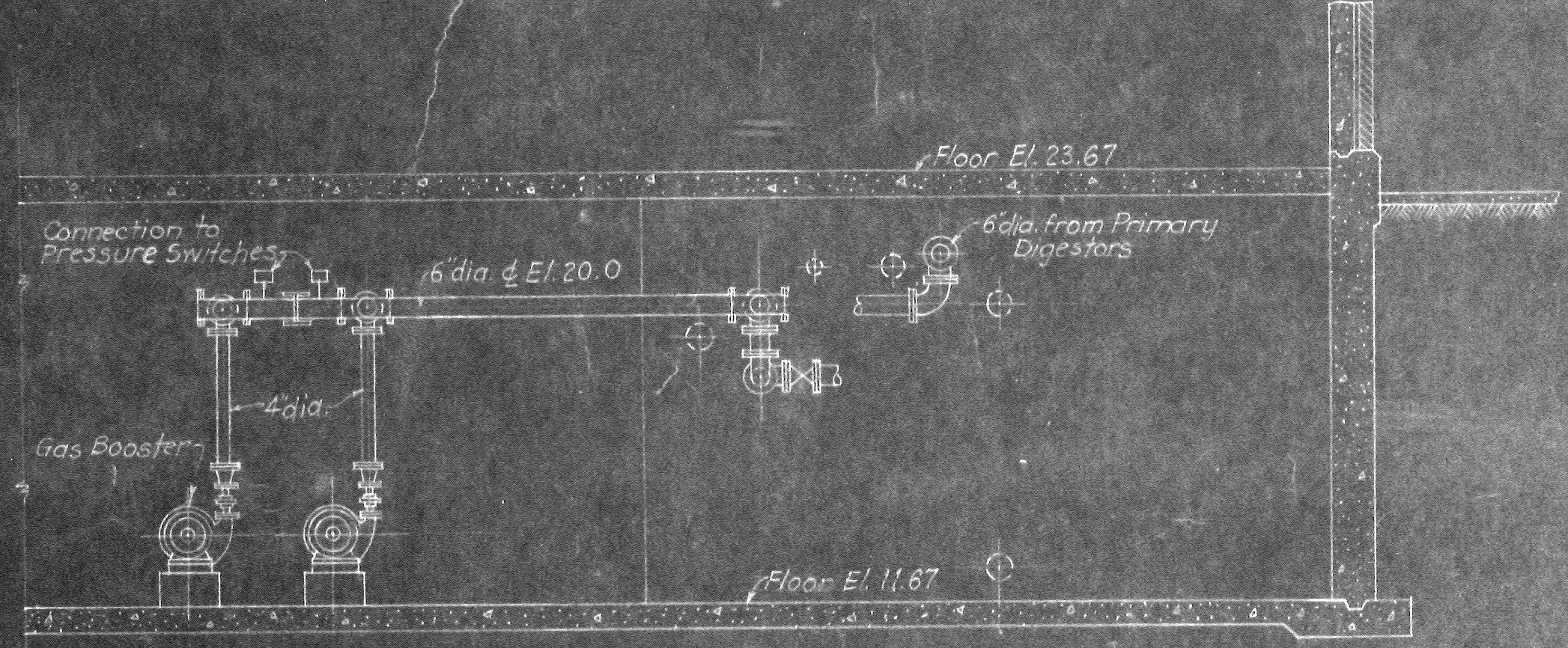
By: *D. S. [Signature]*



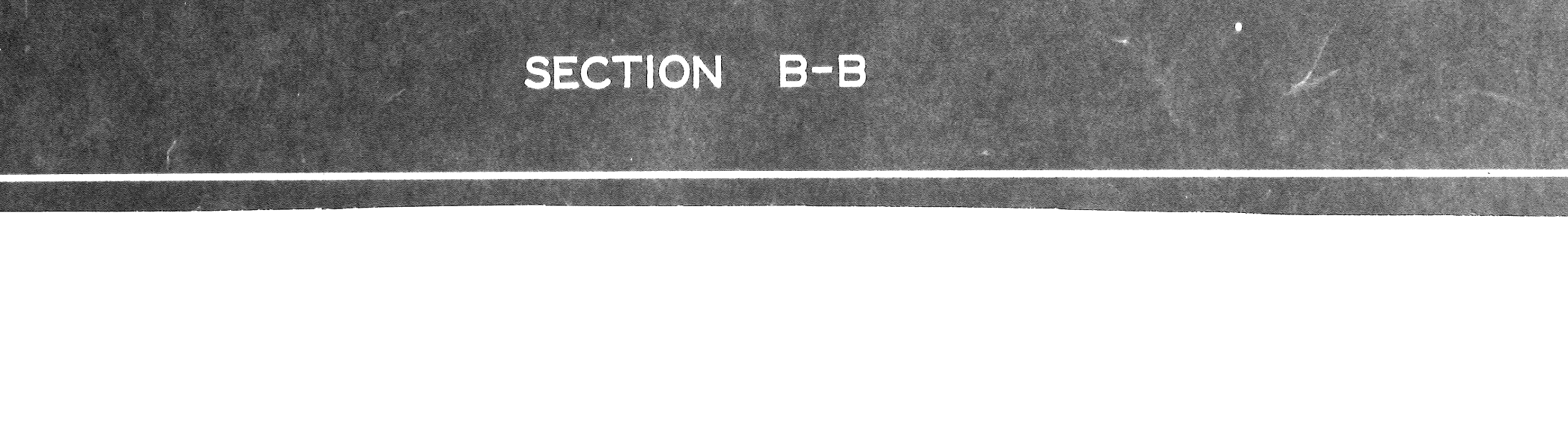


PLAN  
FLOOR EL. 23.67

SECTION A-A



SECTION B-B



ARLINGTON COUNTY  
VIRGINIA  
SEWAGE TREATMENT PLANT  
DIGESTION TANKS & CONTROL BLDG.  
GAS PIPING DETAILS

SCALE 1/4" = 1'-0"

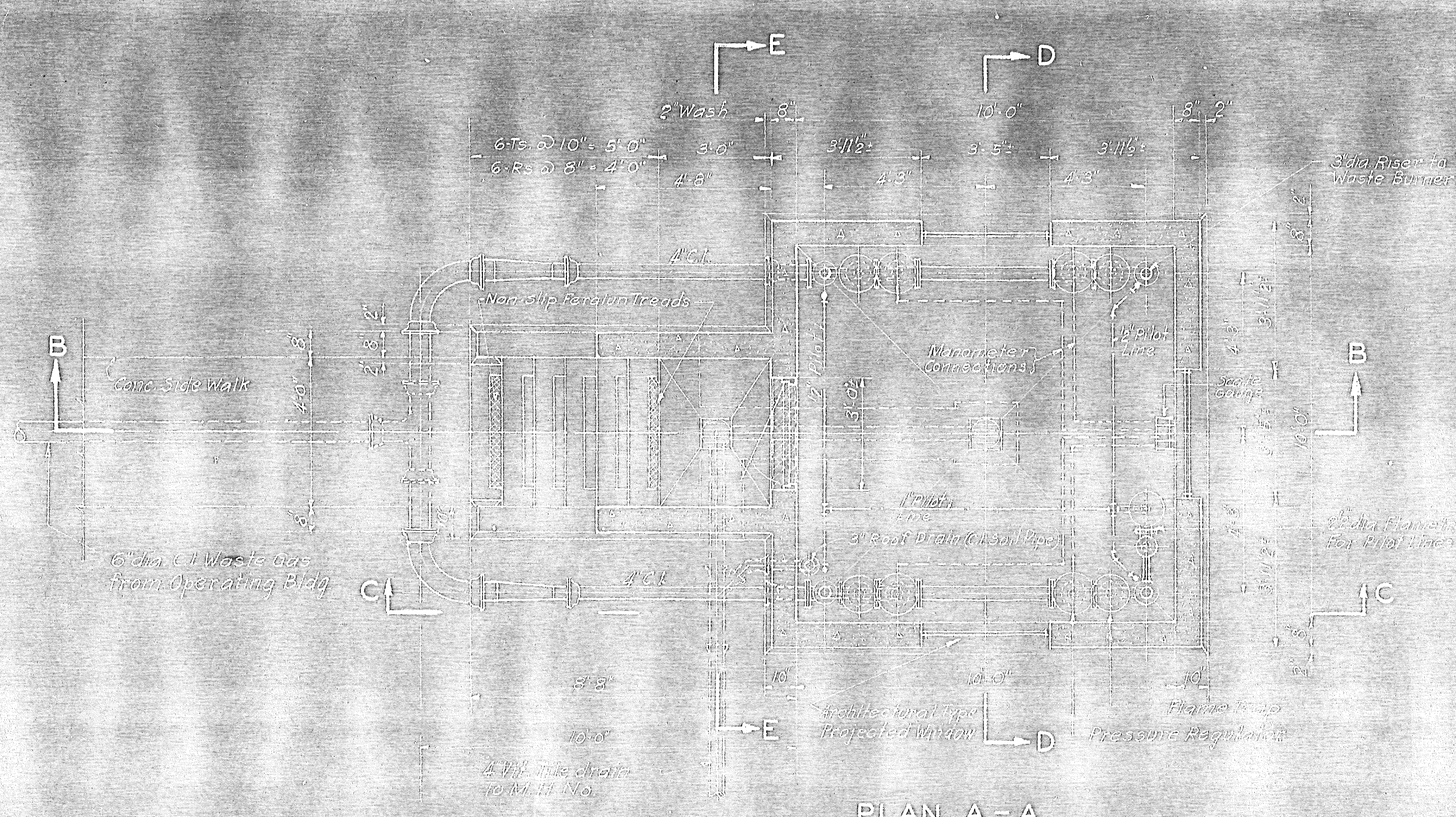
MAY 1951

ALEXANDER POTTER ASSOCIATES  
CONSULTING ENGINEERS  
50 CHURCH STREET  
NEW YORK CITY

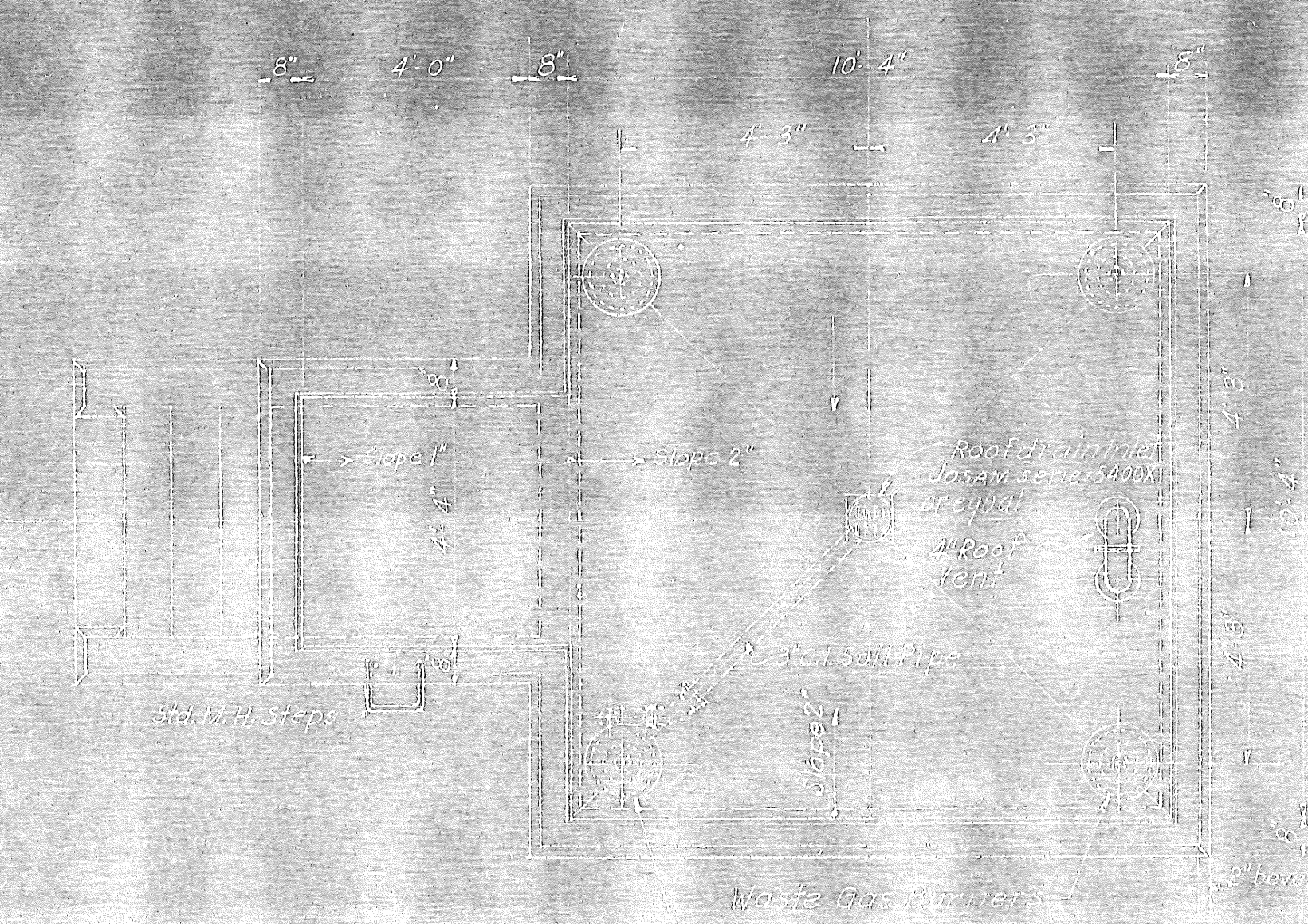
BY: *[Signature]*

SHEET NO. 36

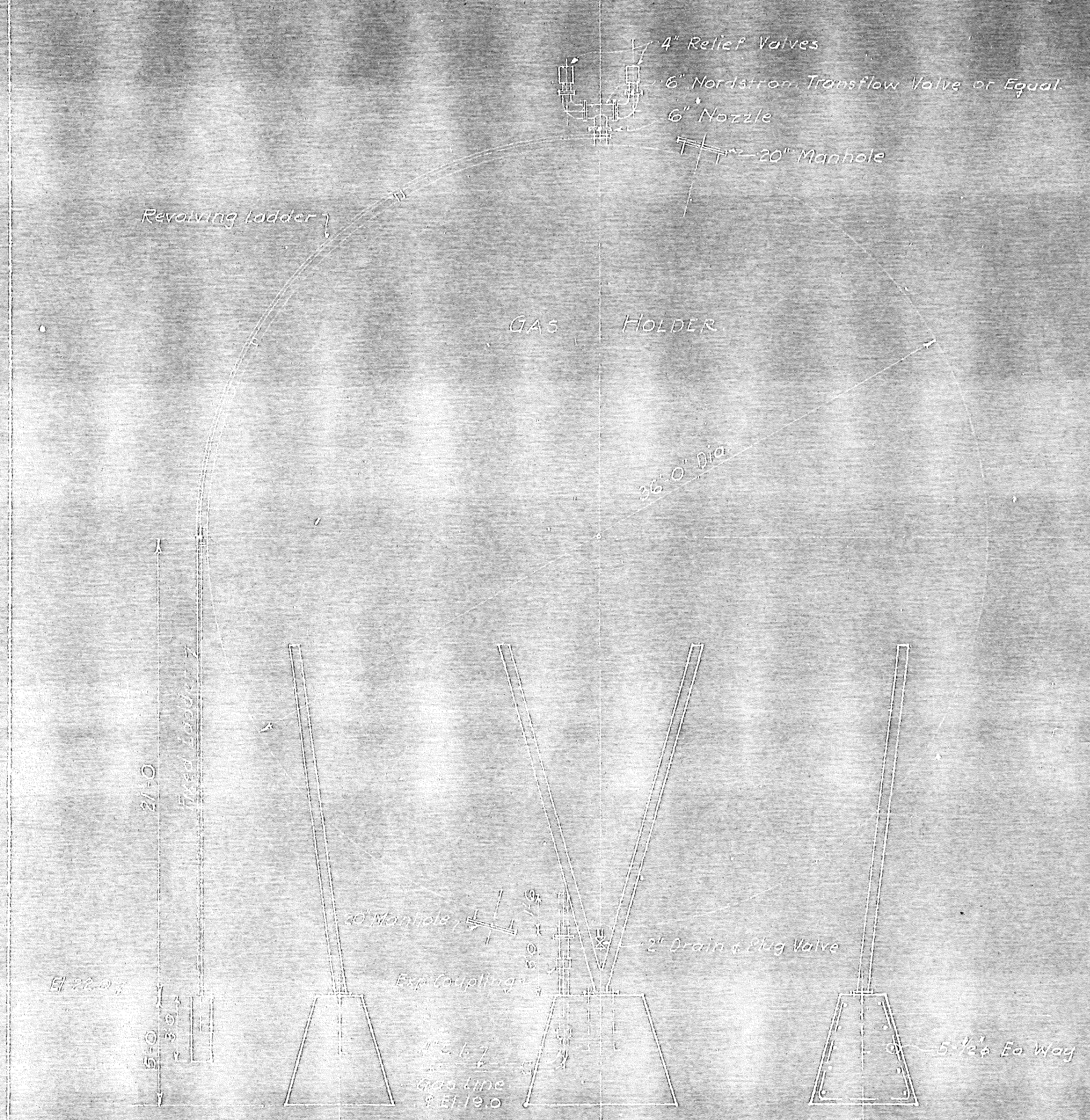




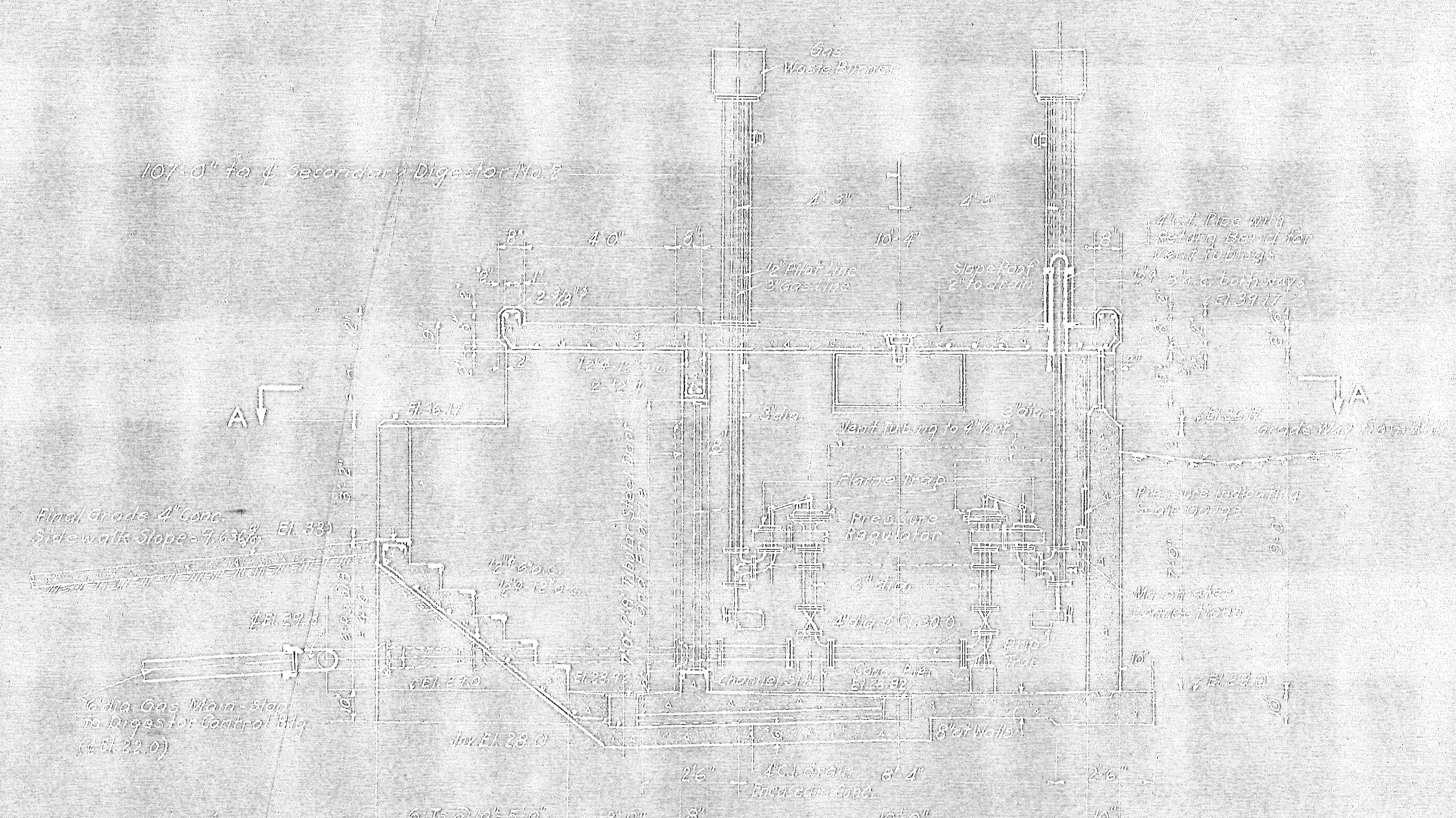
PLAN A-A



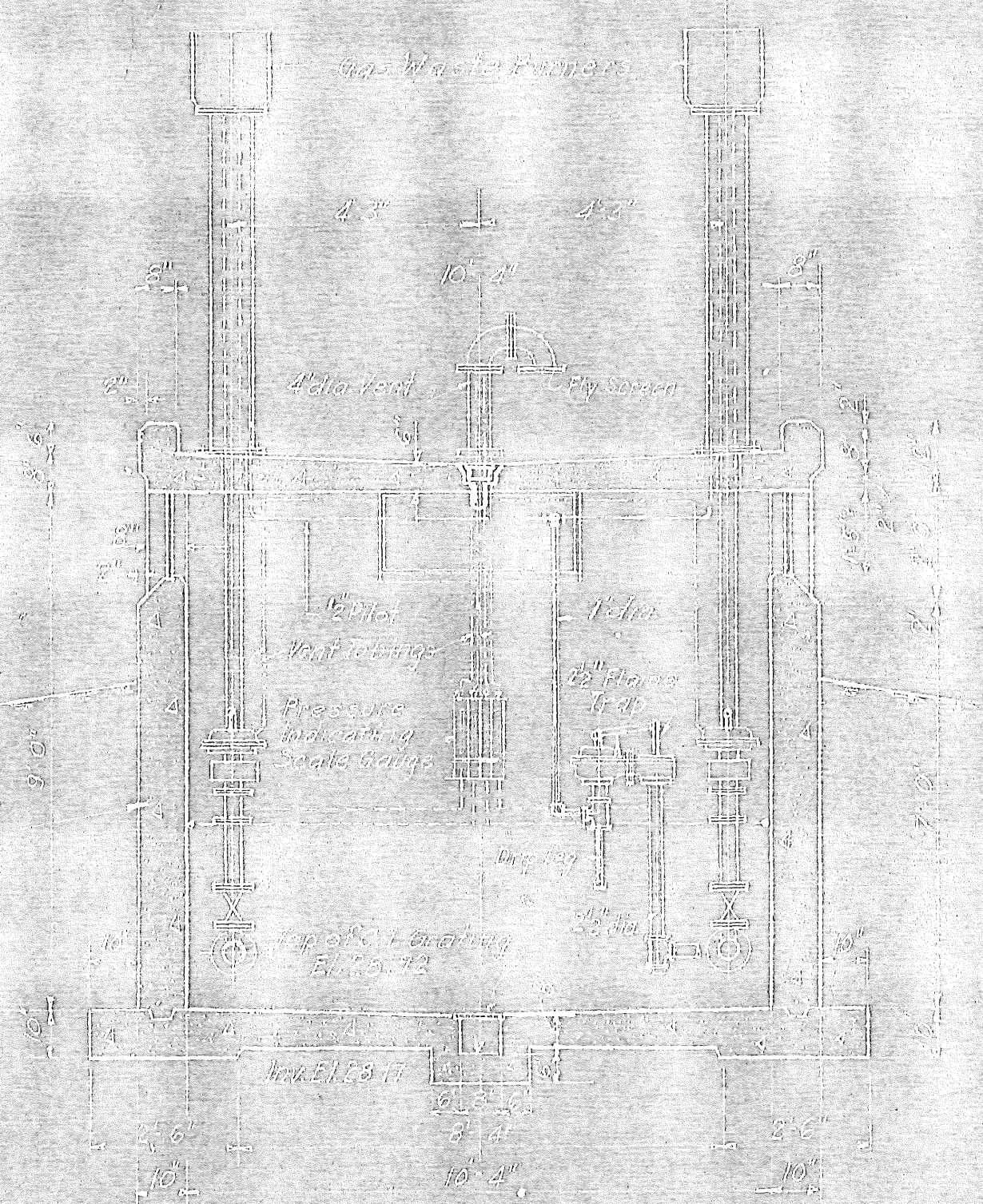
ROOF PLAN



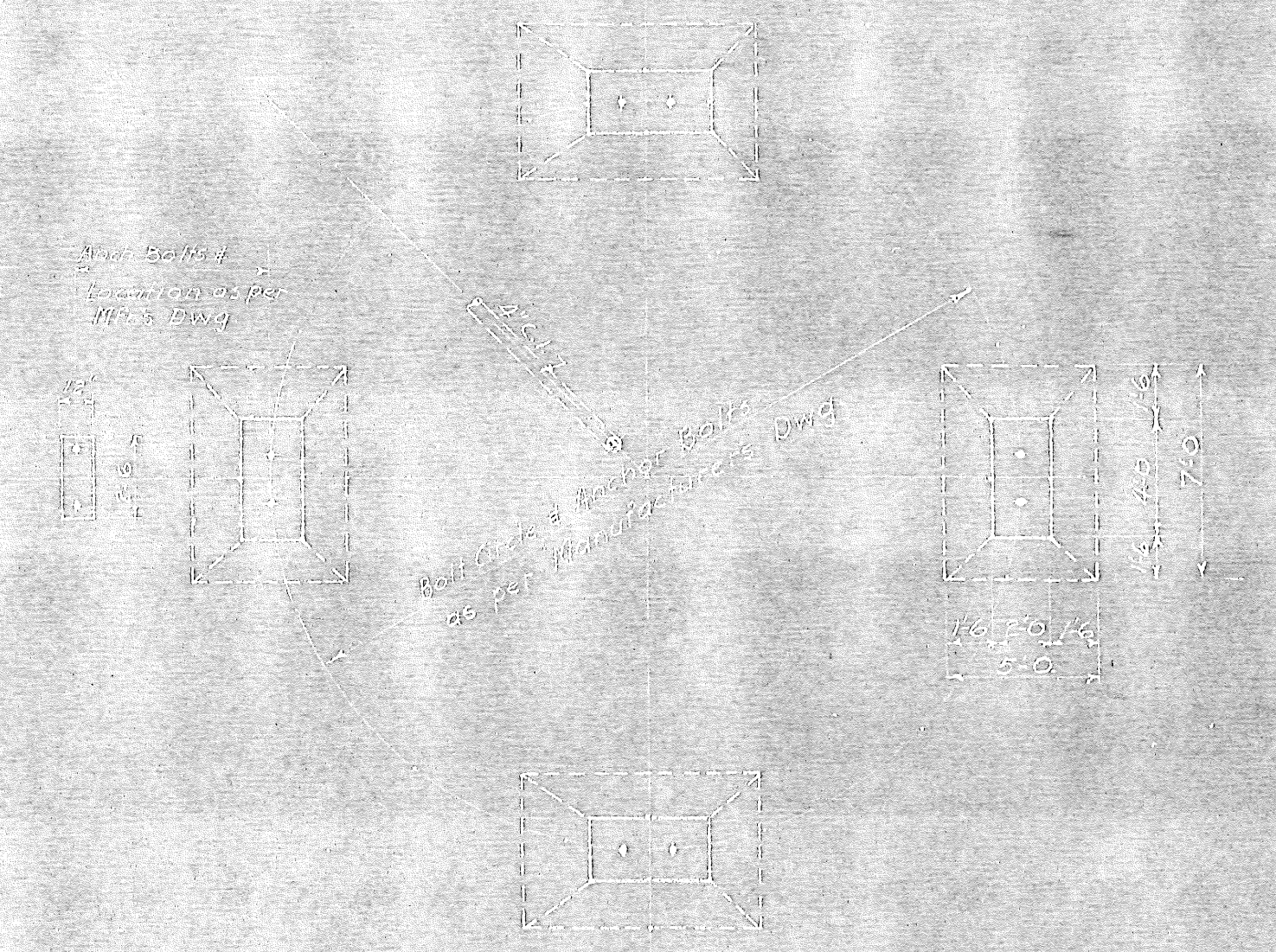
ELEVATION



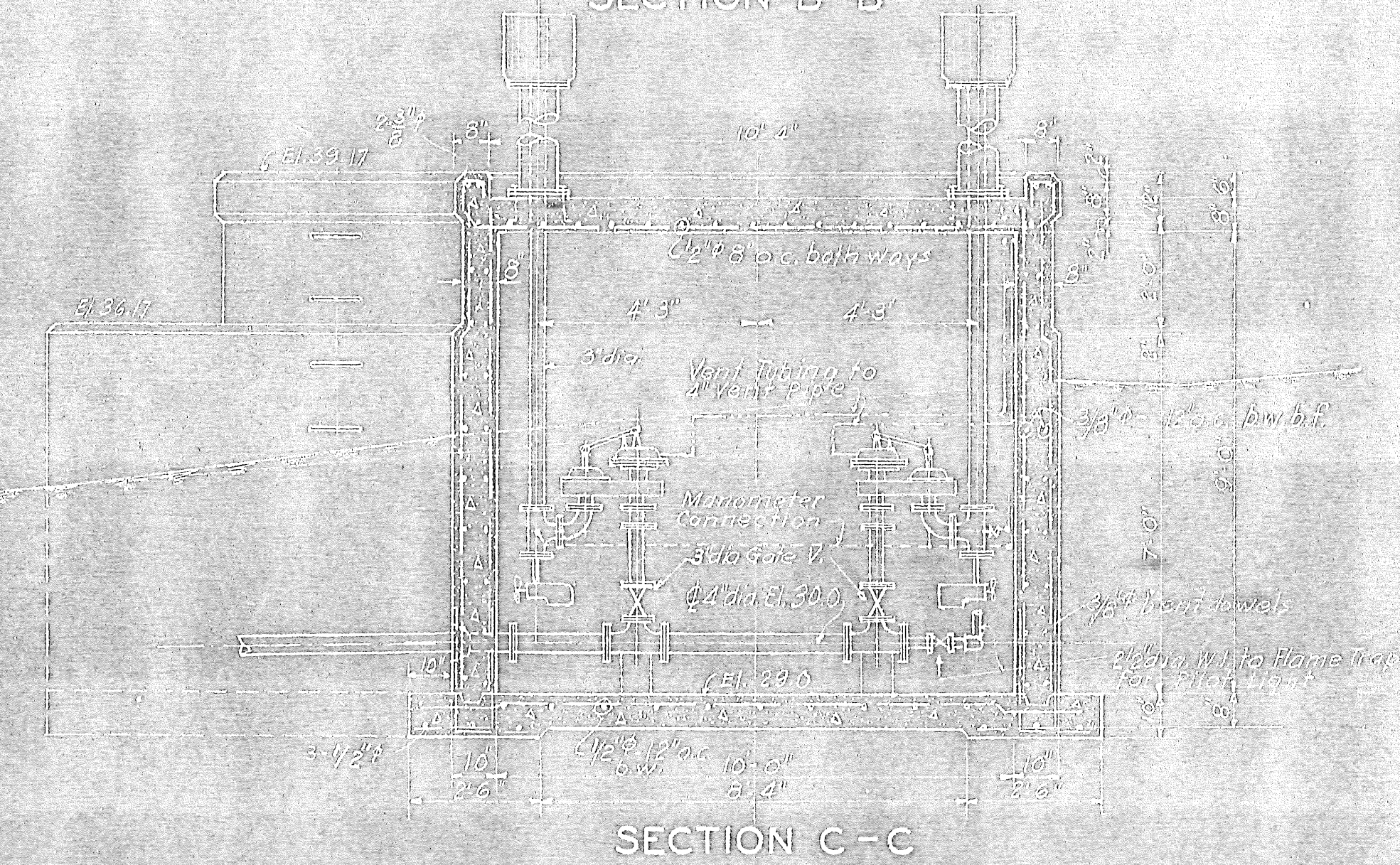
SECTION B-B



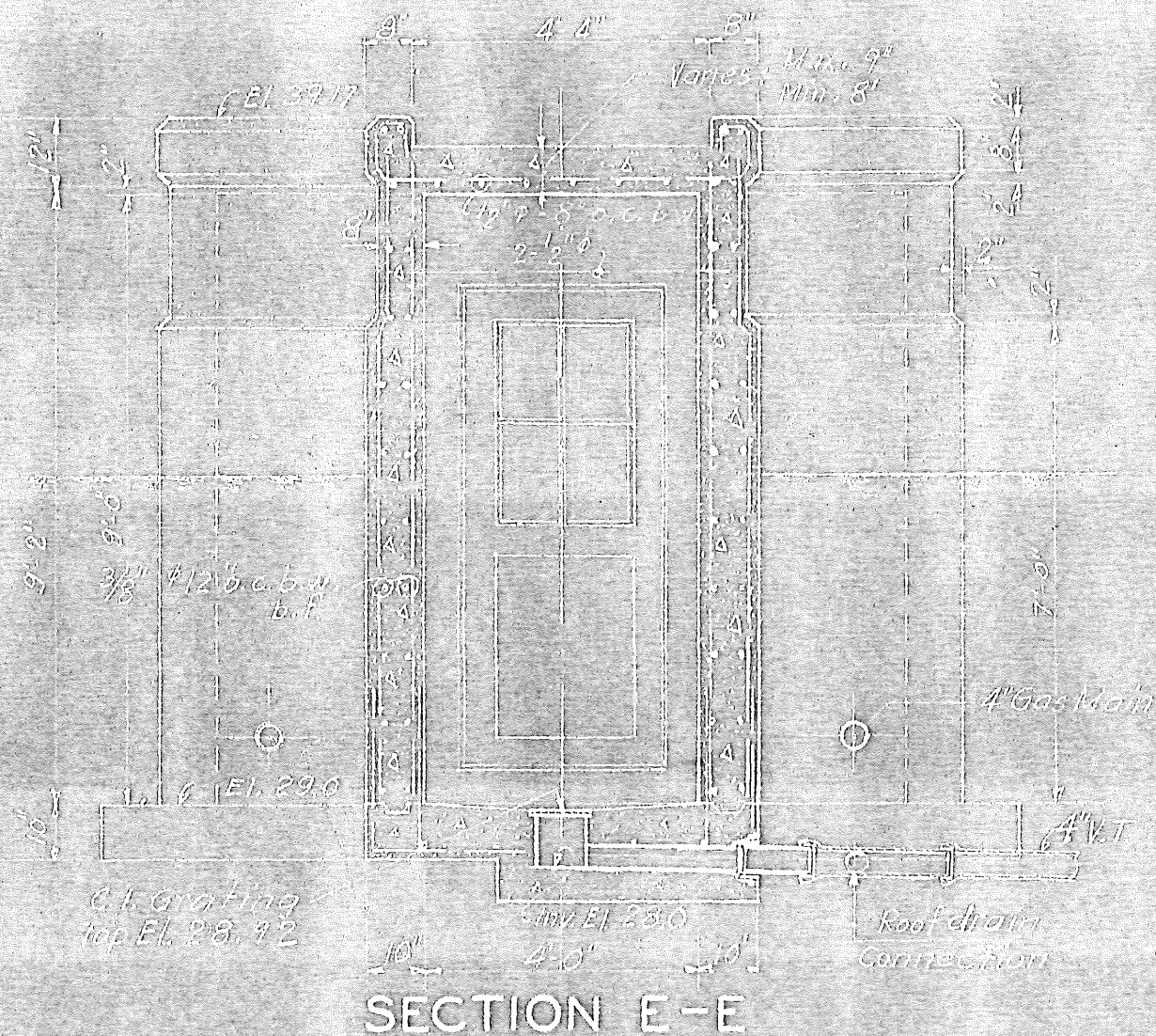
SECTION D-D



FOUNDATION PLAN



SECTION C-C



SECTION E-E

DETAILS OF GAS HOLDER  
Scale: 1/4" = 1'-0"

NOT IN CONTRACT

DETAILS OF WASTE GAS BURNER STATION  
Scale: 1/4" = 1'-0"

ARLINGTON COUNTY  
VIRGINIA  
SEWAGE TREATMENT PLANT  
DETAILS OF  
WASTE GAS BURNER STATION  
AND GAS HOLDER

SCALE AS NOTED DECEMBER, 1946

ALEXANDER POTTER ASSOCIATES  
CONSULTING ENGINEERS

BY: *J. H. Alexander*

60 CHURCH STREET  
NEW YORK CITY

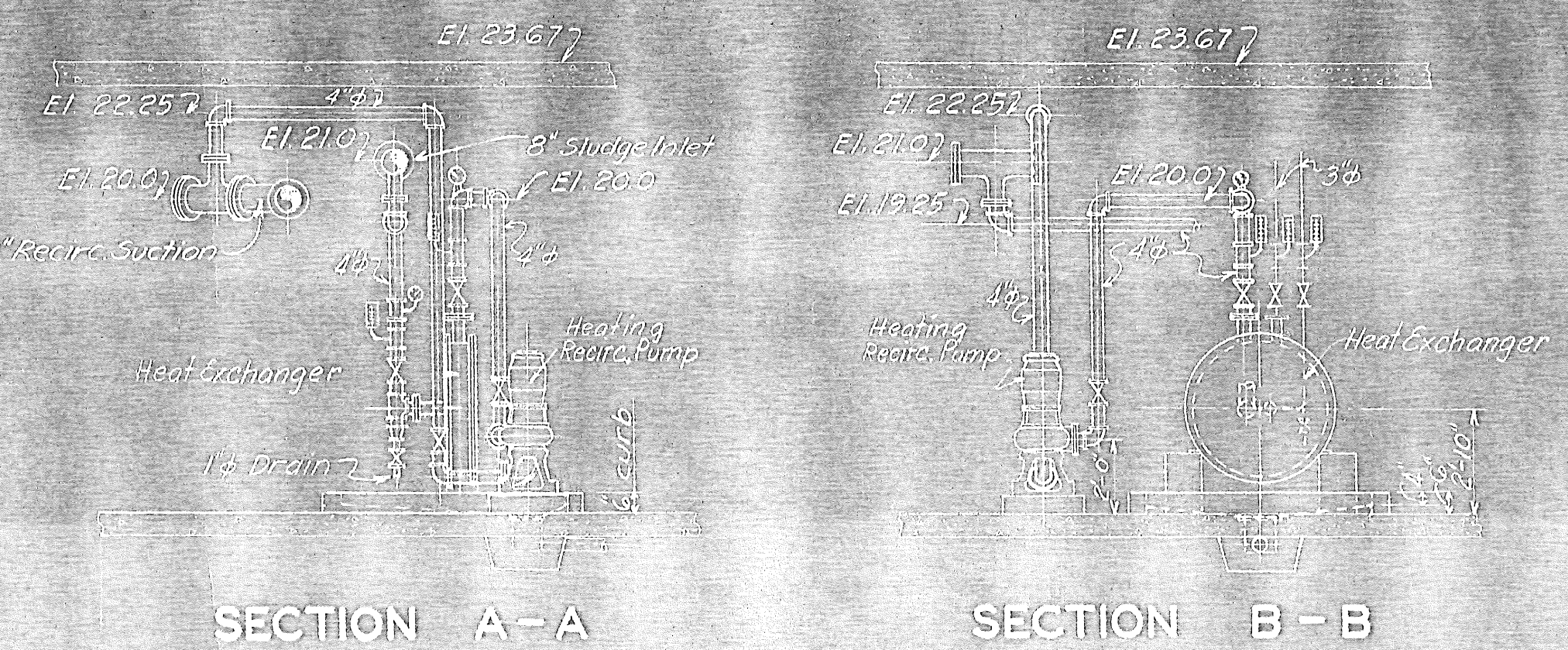






SECONDARY DIGESTOR NO. 1  
(Existing Sludge Storage Tank)  
Dia. 50'-0"

SECONDARY DIGESTOR NO. 2  
(Existing Sludge Storage Tank)  
Dia. 50'-0"



SECTION A-A

SECTION B-B

SECTIONAL PLAN  
SHOWING REVISED PIPING

- CHANGE AND ADDITIONS BEING SHOWN ON SECTIONAL PLAN, COMPARED WITH PREVIOUS NO. 315 FACILITIES, INSTALLATION OF HEAT EXCHANGERS.
1. Added No. 2 Sludge Tank with Expansion or Shrinkage Tanks (Class "A" Sheet No. 304 A)
  2. Added 12" dia. compression main Superheated steam to 6" dia. Superheated steam.
  3. Added two 6" dia. 6" dia. and lowered 6" Superheated steam from elevation 210.0 to elevation 200.0.
  4. Replaced 6" superheated steam with 6" water filled heads and added 6" superheated and absorption and transfer head.
  5. Added 6" superheated steam to 6" Superheated steam line.
  6. Added six 4" dia. 6" dia. and 12" Recirculation Pipe headers to connect to the Heating Water Pumps.
  7. Added 6" Superheated steam to 6" Superheated Headers of Secondary Digestors.
  8. Remove and Install two additional 6" dia. water filled Plug Valves on suction and discharge end of plunger type Transfer Pump in Basement of Filter Building.

PRIMARY DIGESTOR NO. 1  
Dia. 65'-0"

PRIMARY DIGESTOR NO. 2  
Dia. 65'-0"

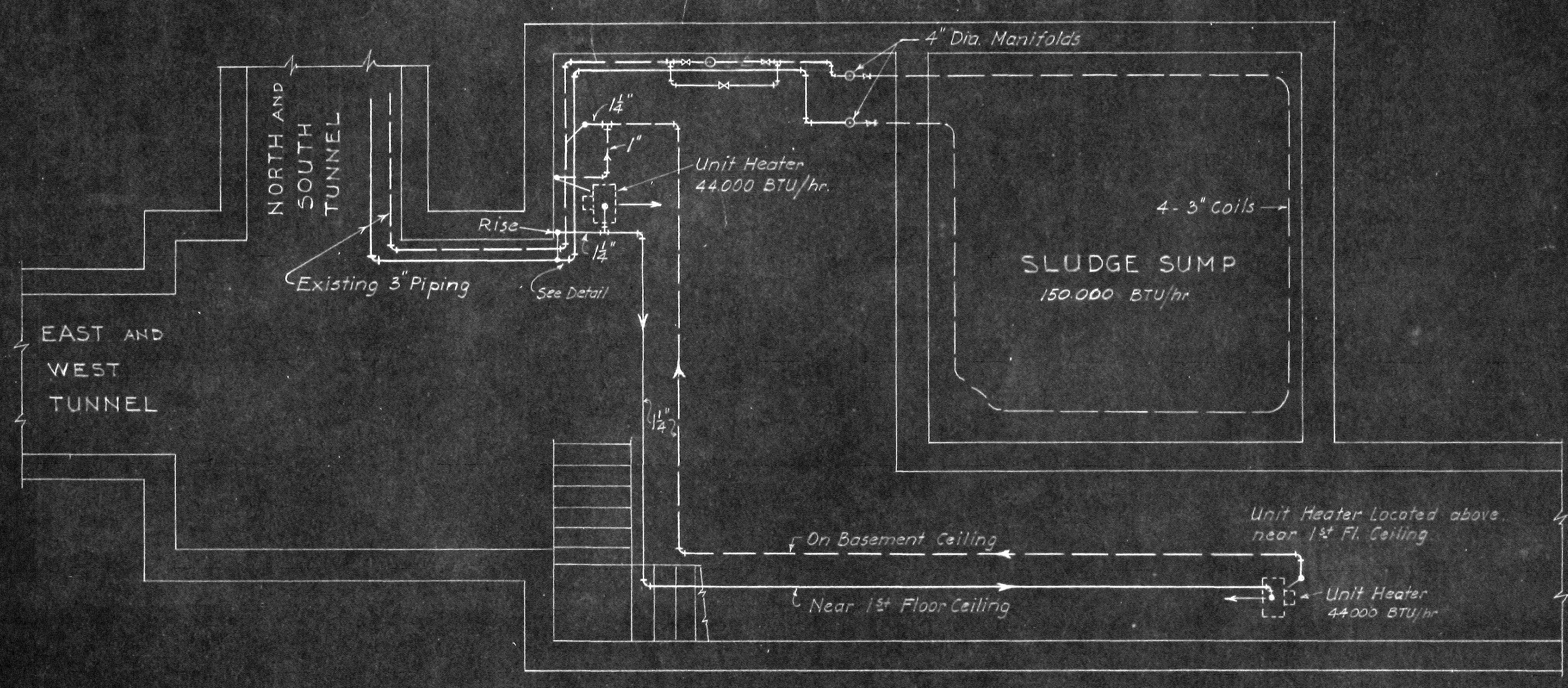
PLAN

ARLINGTON COUNTY  
VIRGINIA  
SEWAGE TREATMENT PLANT

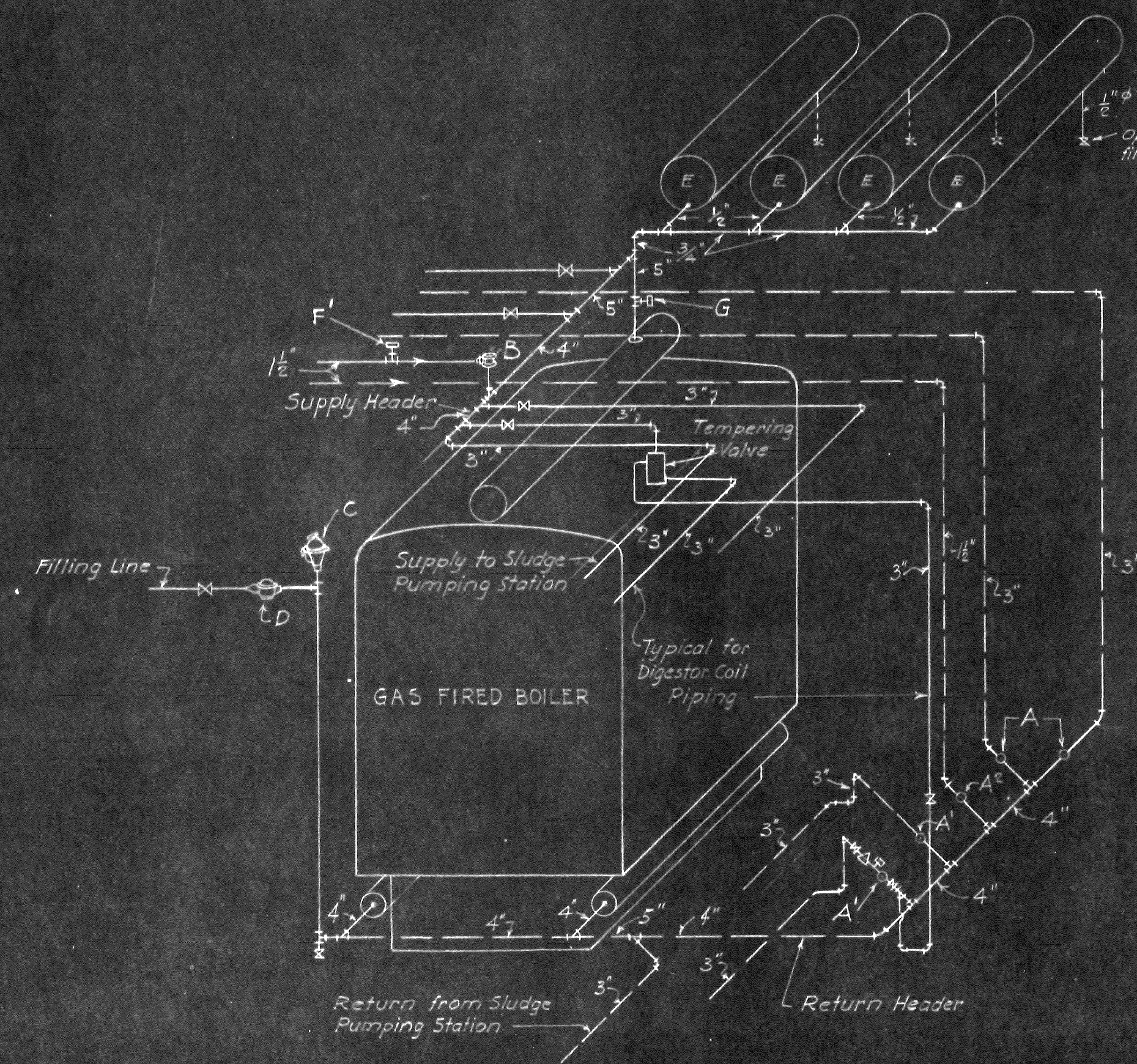
DIGESTION TANKS & CONTROL BLDG.  
HEATING PLAN & DETAILS

SCALE: 1/4" = 1'-0" JUN. 1981  
50 CHURCH STREET  
NEW YORK CITY  
ALEXANDER POTTER ASSOCIATES  
CONSULTING ENGINEERS  
BY: *[Signature]*

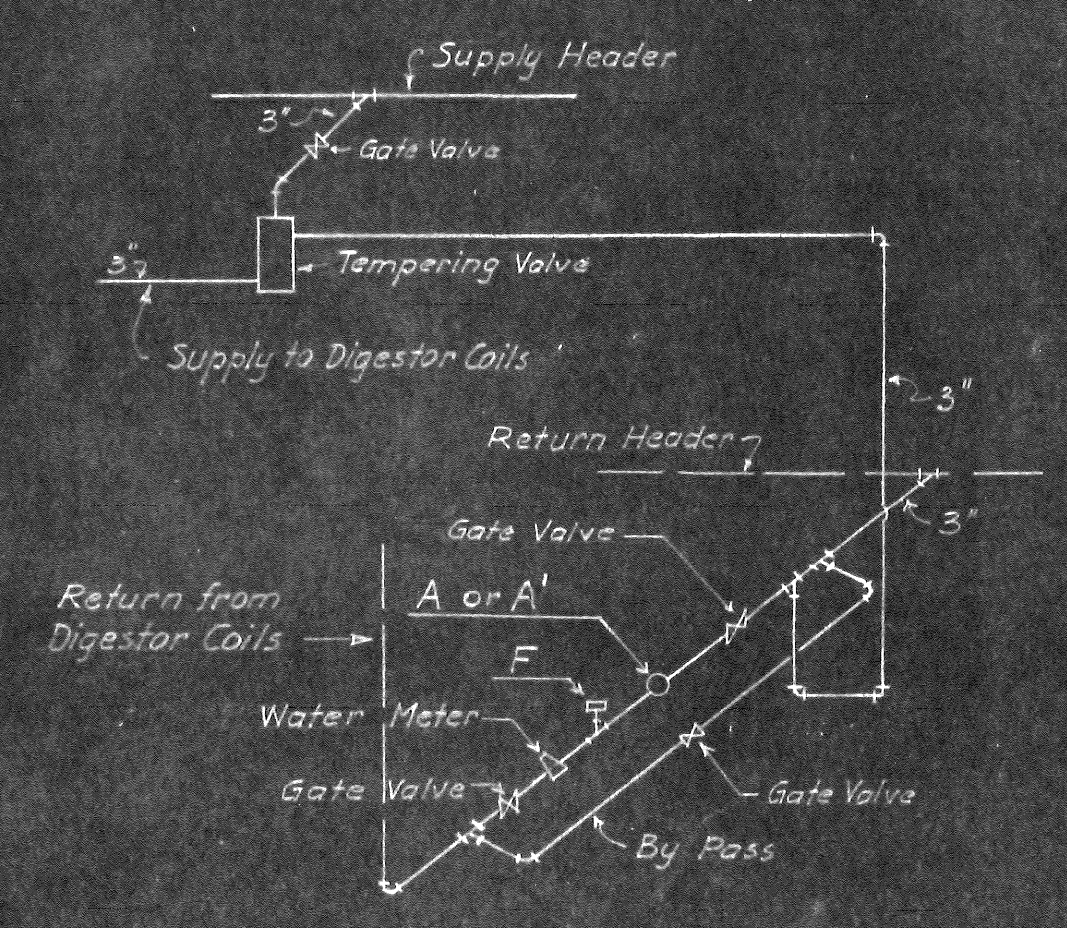




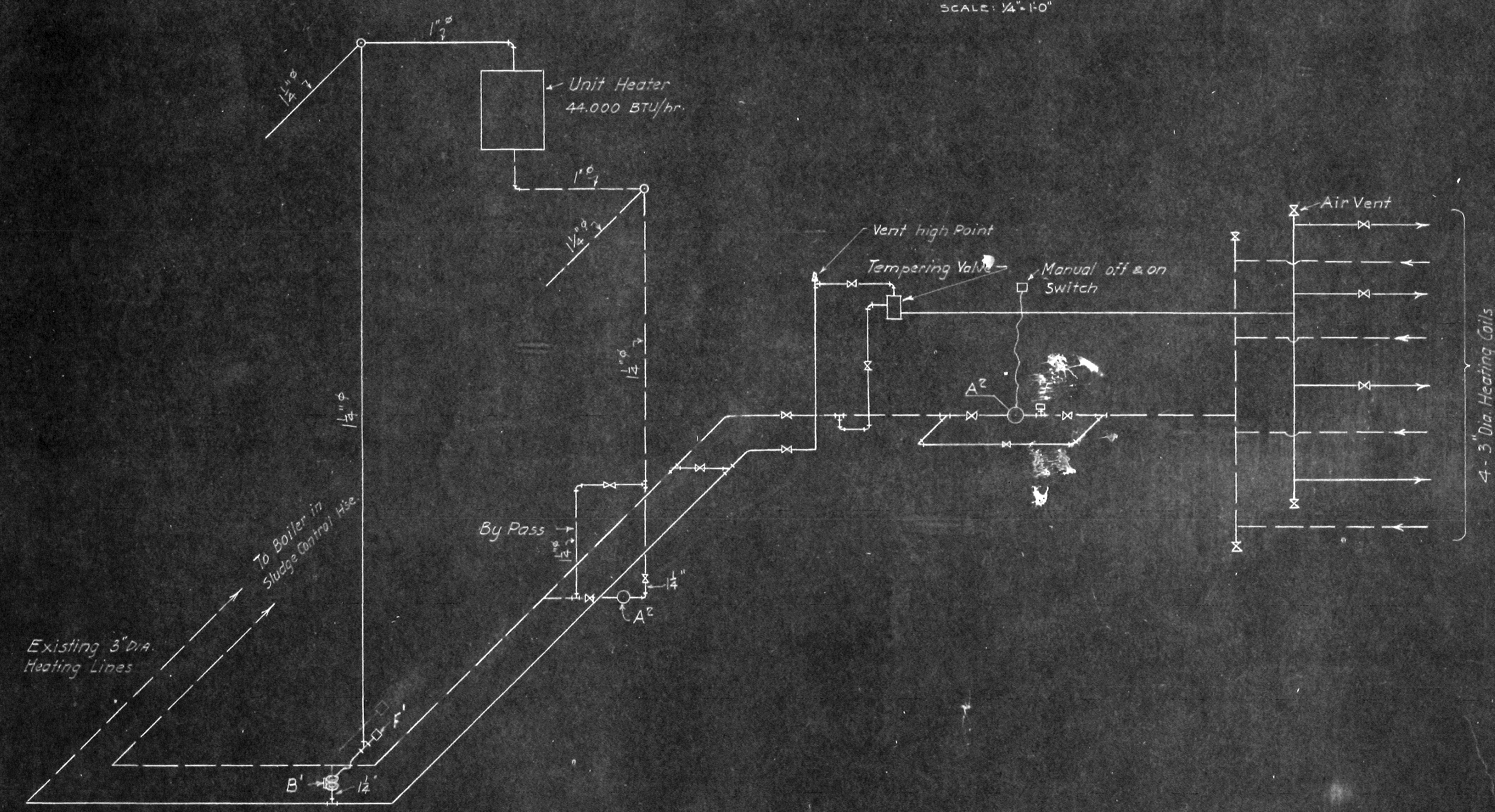
SLUDGE PUMPING STATION  
BASEMENT PLAN  
SCALE: 1/4" = 1'-0"



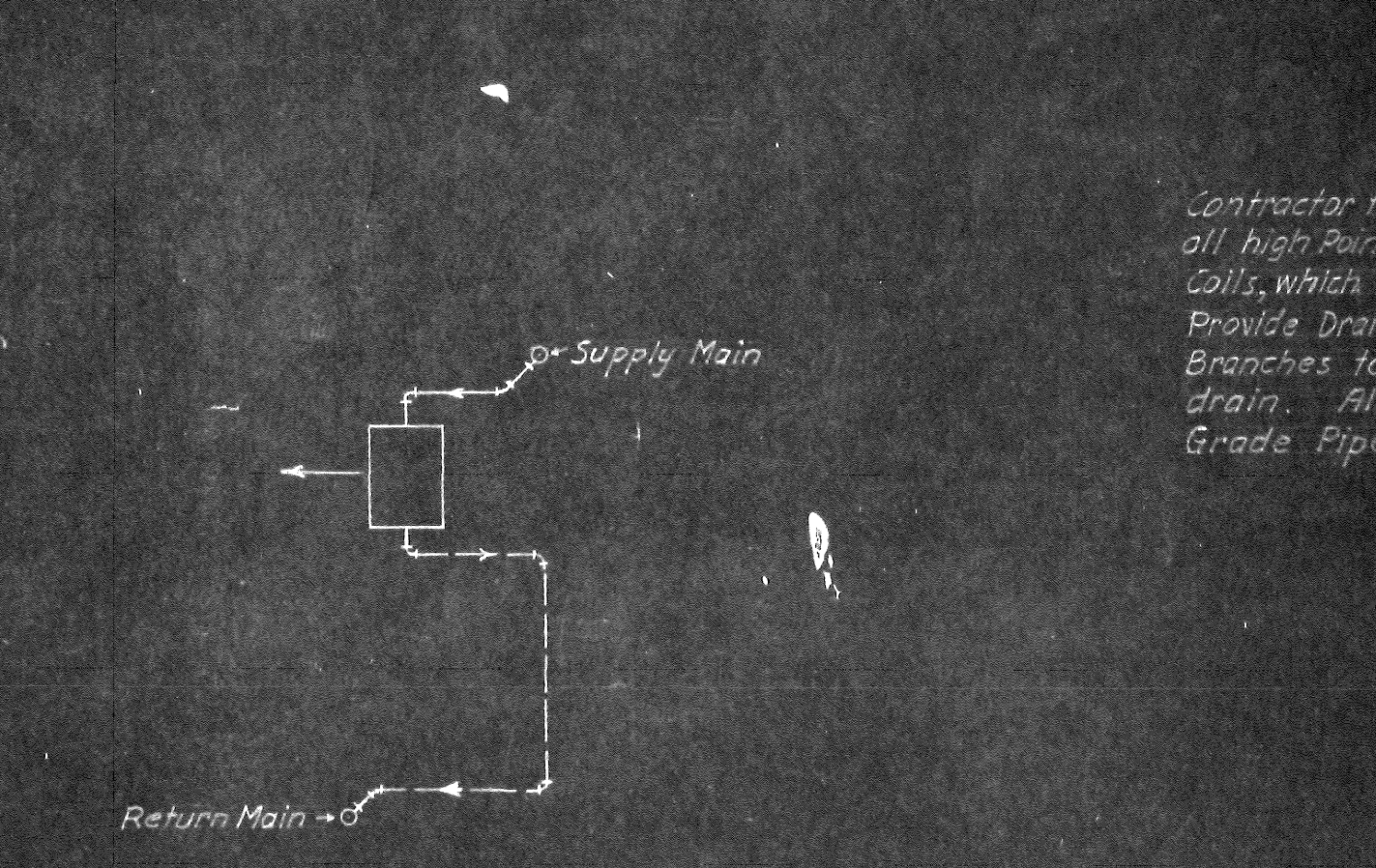
PIPING DIAGRAM  
AT  
GAS FIRED BOILER



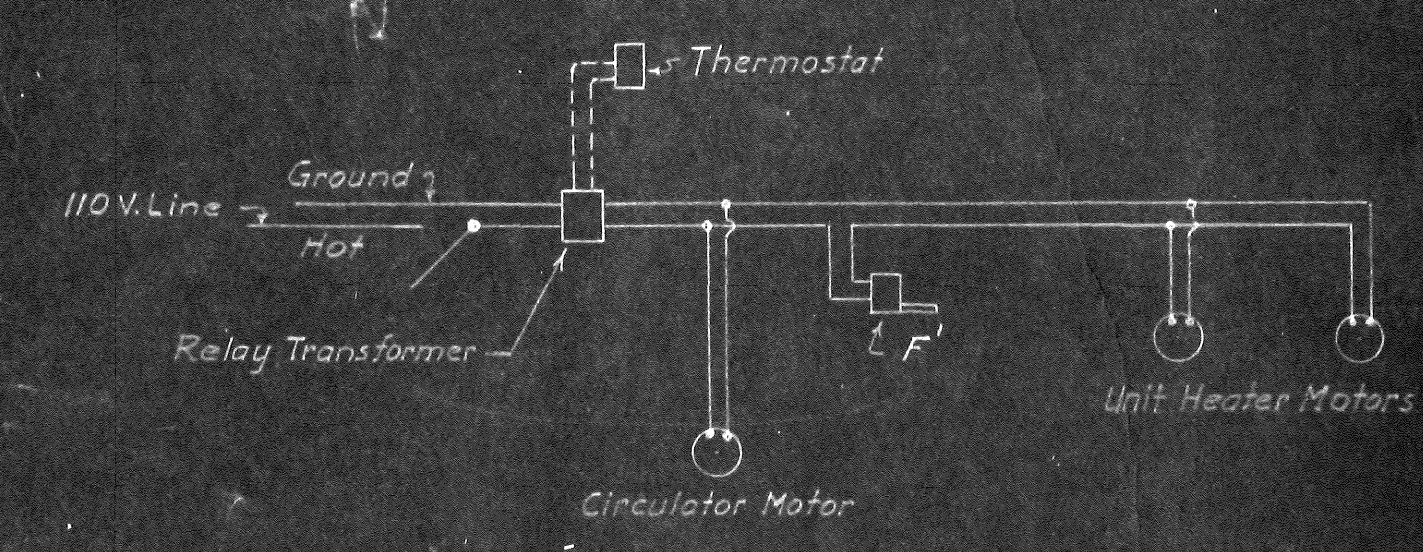
TYPICAL CONNECTION AT BOILER  
FOR DIGESTOR COILS



PIPING DIAGRAM  
FOR  
SLUDGE PUMPING STATION



TYPICAL CONNECTION FOR UNIT HEATERS  
IN SLUDGE PUMPING STA. AND OPERATING BLDG.



WIRING DIAGRAM  
FOR  
UNIT HEATER ZONES

NOTE

Contractor to provide Air Chambers with Vents above all high points in Flow or Return Mains and Digester Coils, which might otherwise become Air Trapped. Provide Drains at all Low Points. All Mains and Branches to be properly graded so they will vent and drain. All Pipe Ends to be well reamed. Grade Pipe down in Direction of Arrows.

SCHEDULE			
MARK	NO. REQ'D	DESCRIPTION	LOCATION
A	2	Water Circulators	Primary Digester Return
A <sup>1</sup>	2	Water Circulators	Secondary Digester Return
A <sup>2</sup>	3	Water Circulators	Unit Heaters in Digester Control Bldg, Sludge Pumping Sta. and Sludge Sump Return Lines.
B	1	Flow Control Valve	Supply Line to Unit Heaters in Digester Control Bldg.
B <sup>1</sup>	1	Flow Control Valve	Supply Line to Unit Heaters in Sludge Pumping Station.
C	1	Pressure Relief Valve	Water Supply Line to Boiler
D	1	Pressure Reducing Valve	Water Supply Line to Boiler
E	4	Expansion Tanks	Boiler Room Supply Header
F	5	Water Temperature Controls	Digester and Sludge Sump Return Lines
F <sup>1</sup>	2	Water Temp. Controls	Unit Heater Supply Lines, Digester Control Bldg. and Sludge Pump House.
G	1	Water Temp. Control	Gas Boiler Supply Header

ARLINGTON COUNTY  
VIRGINIA  
SEWAGE TREATMENT PLANT  
DIGESTION TANKS & SLUDGE PUMP STA.  
HEATING DETAILS

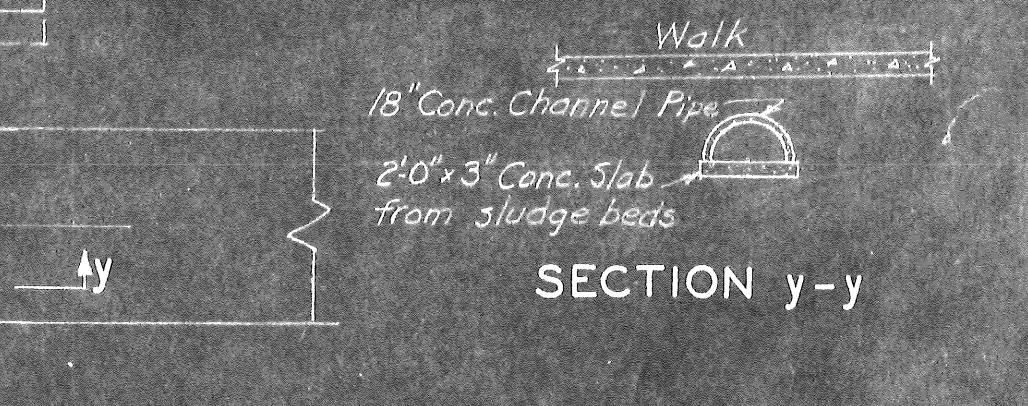
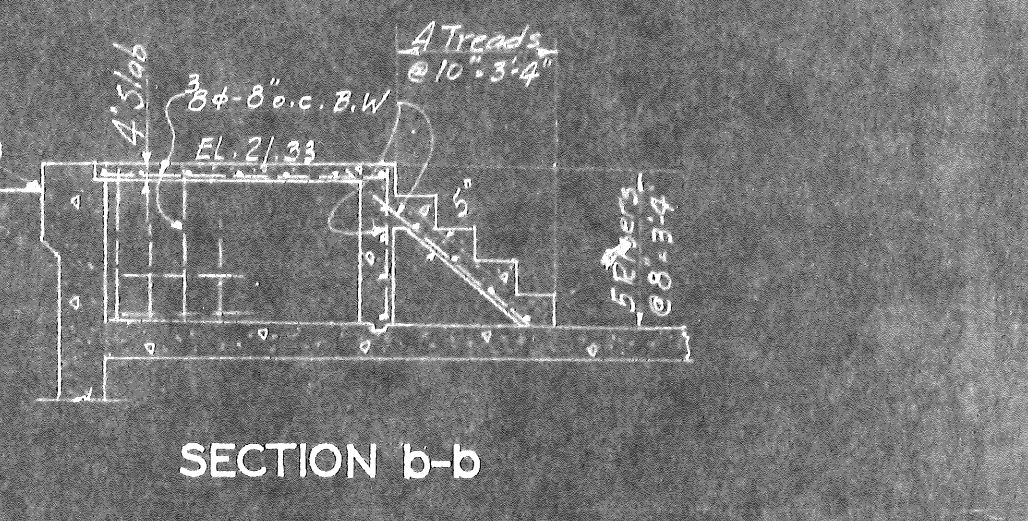
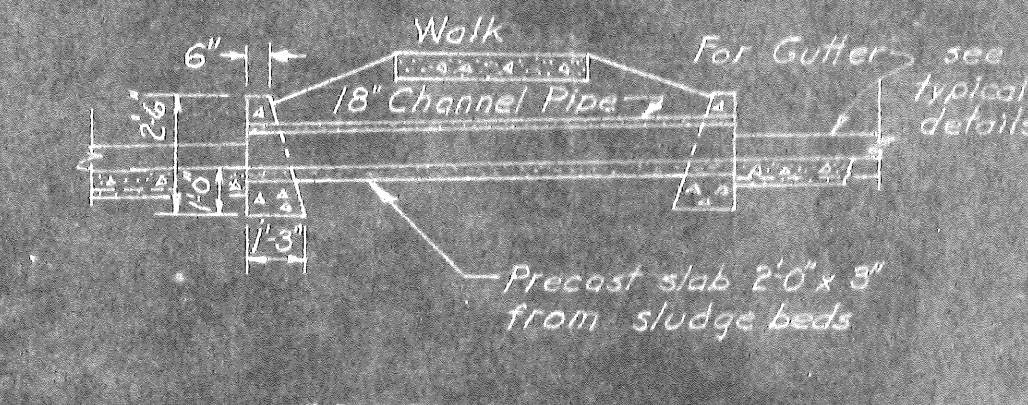
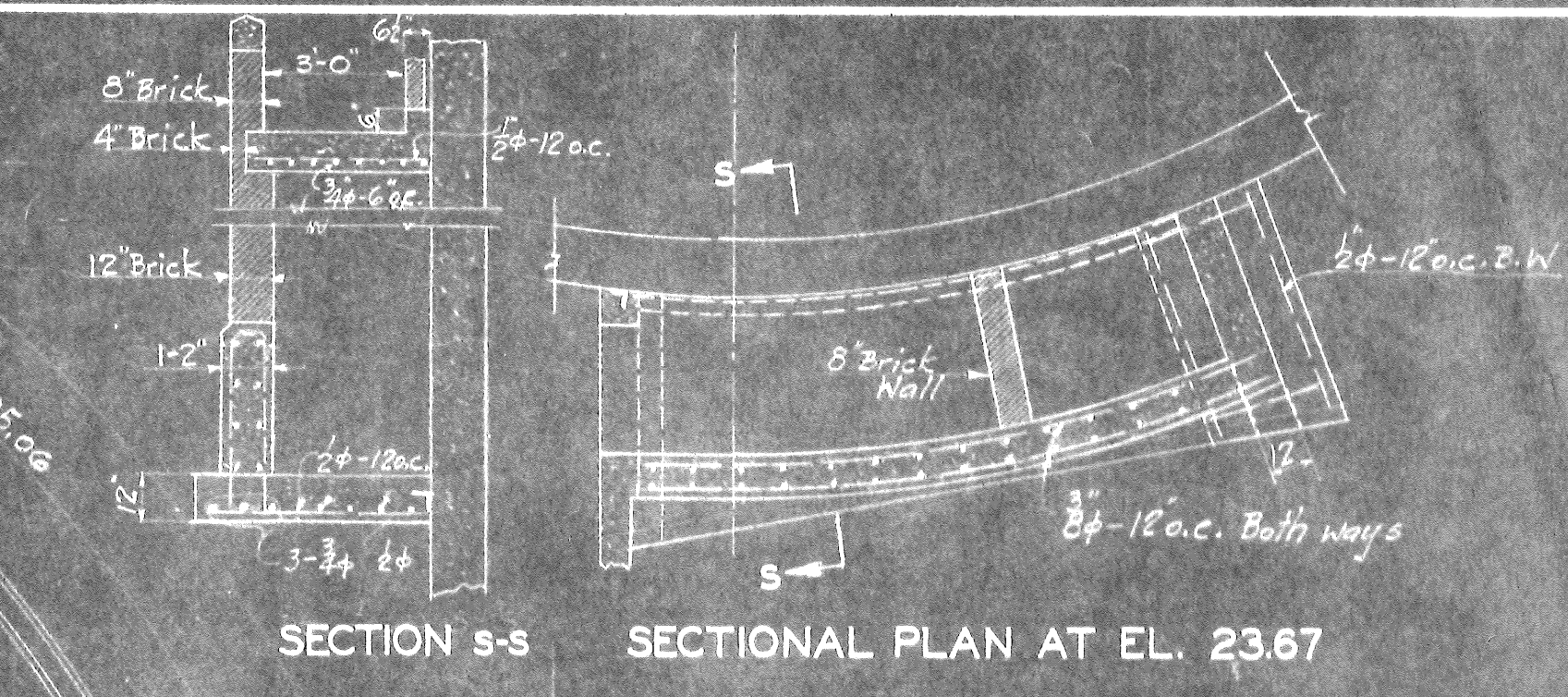
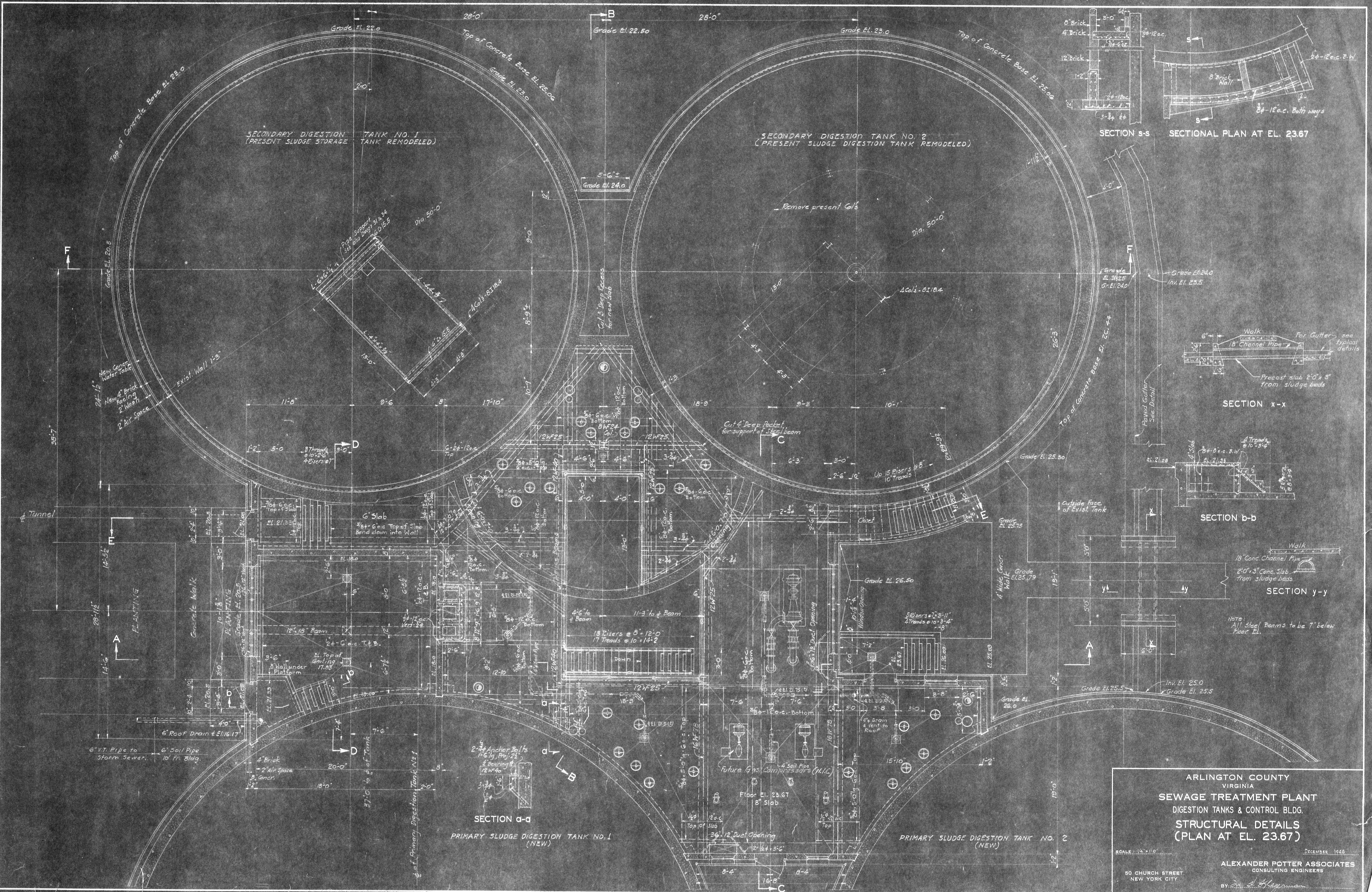
SCALE: NONE  
DECEMBER 1946

ALEXANDER POTTER ASSOCIATES  
CONSULTING ENGINEERS  
BY: *A. Hegerman*

80 CHURCH STREET  
NEW YORK CITY

SHEET NO. 39





NOTE:  
All Steel Beams to be 7' below Floor El.

ARLINGTON COUNTY  
VIRGINIA  
**SEWAGE TREATMENT PLANT**  
DIGESTION TANKS & CONTROL BLDG.  
**STRUCTURAL DETAILS**  
(PLAN AT EL. 23.67)

SCALE: 1/4" = 1'-0"  
DECEMBER, 1946  
ALEXANDER POTTER ASSOCIATES  
CONSULTING ENGINEERS  
BY: *[Signature]*

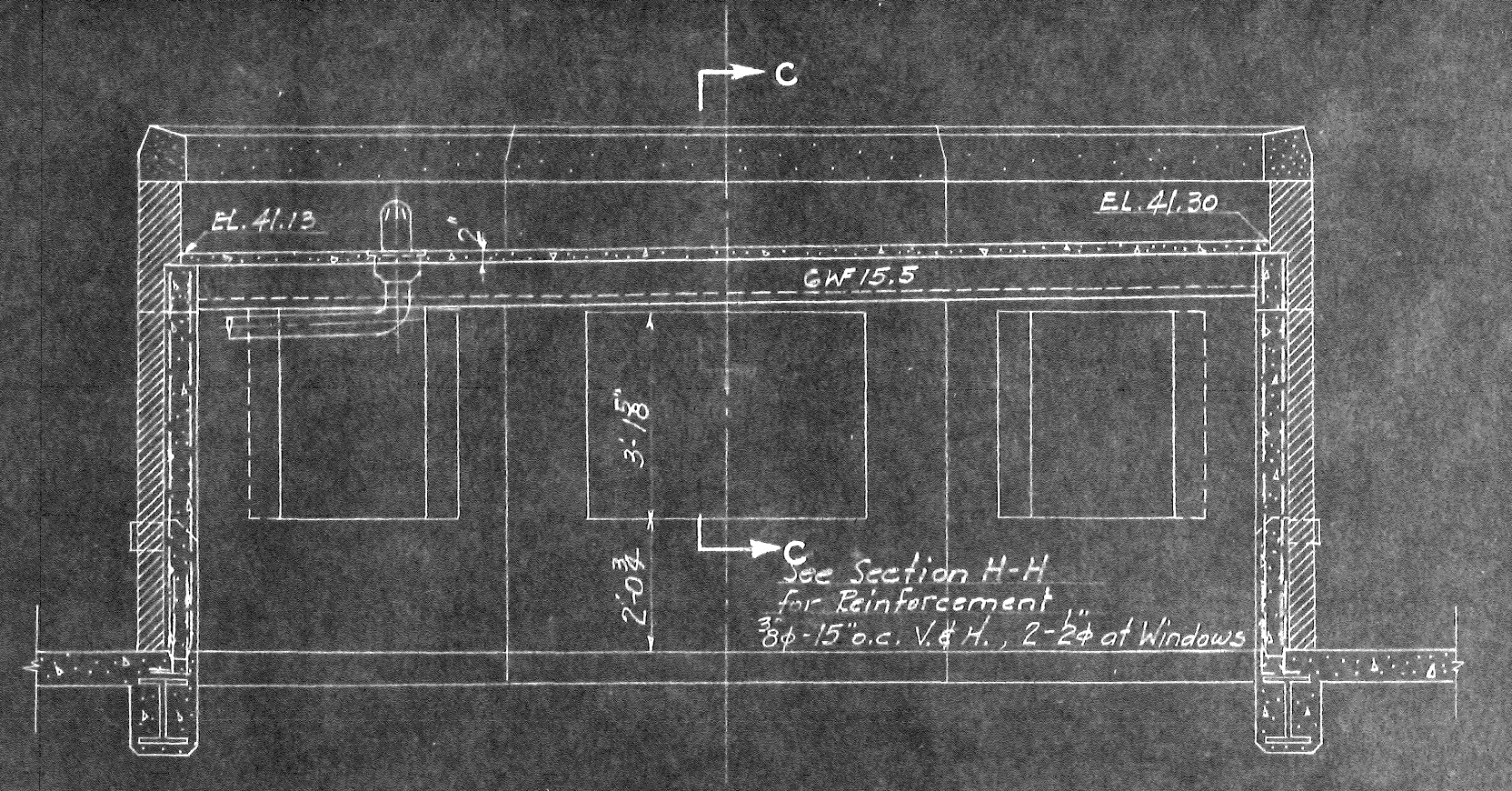
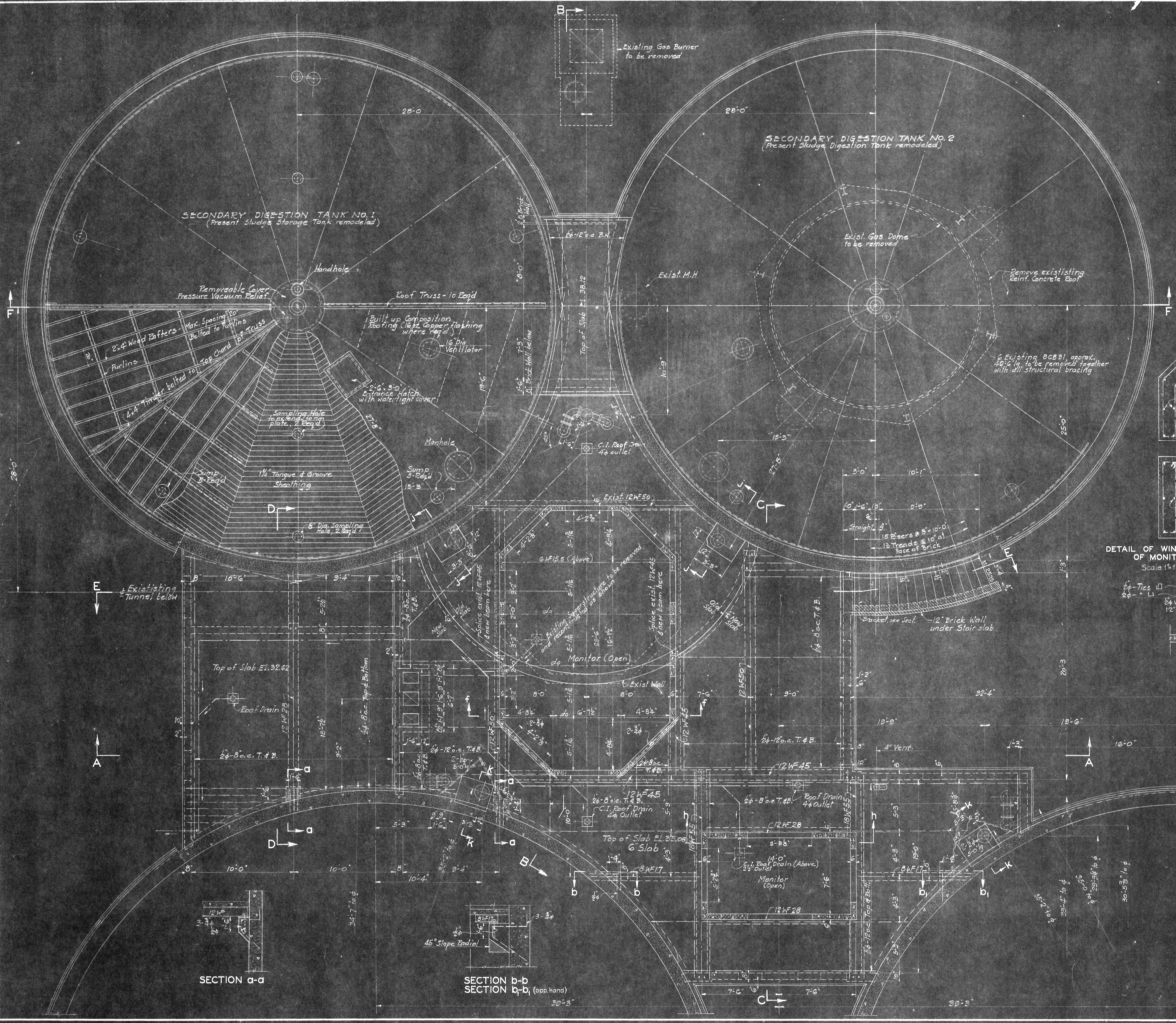
50 CHURCH STREET  
NEW YORK CITY

SHEET NO. 40

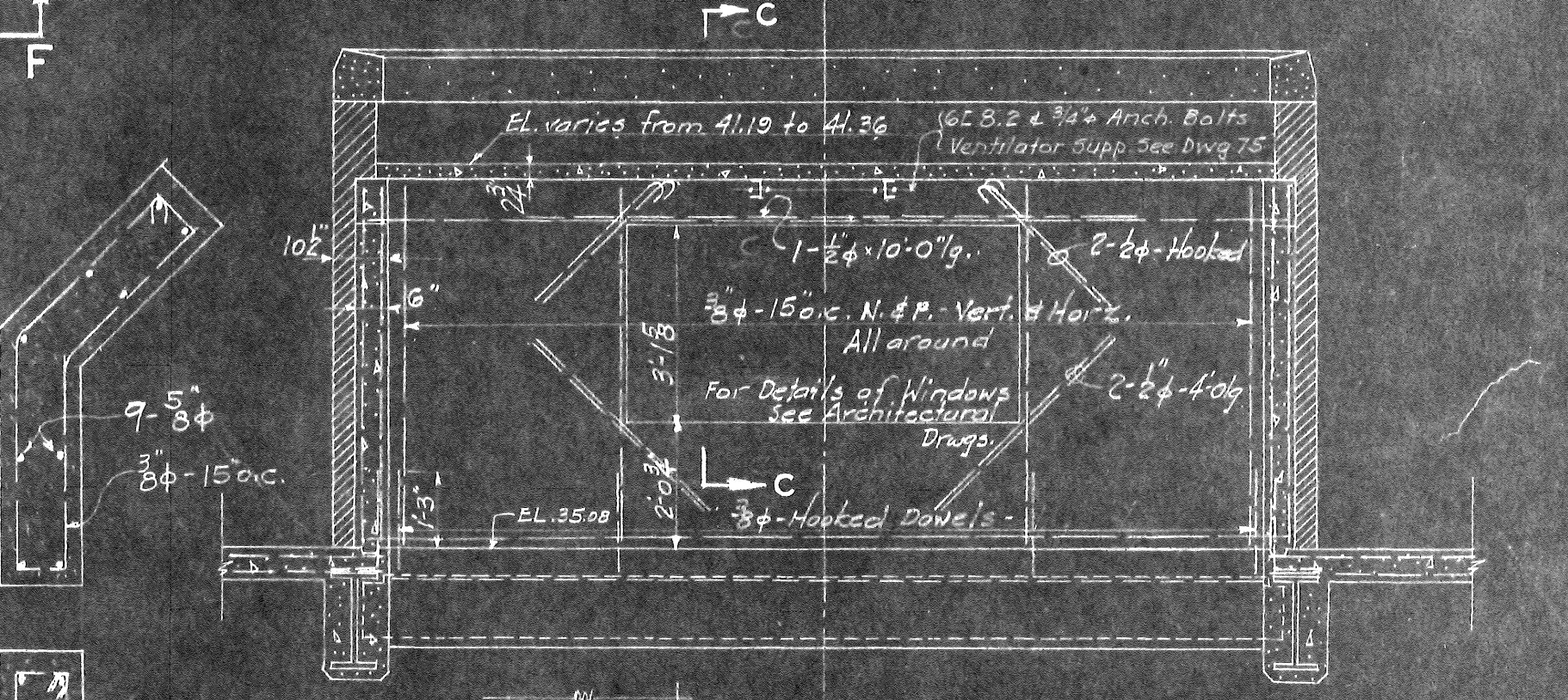






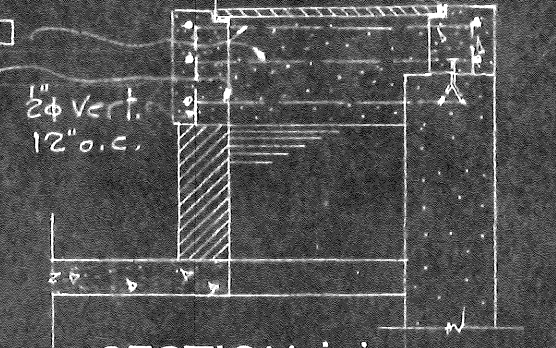


SECTION f-f  
Scale 3/8" = 1'-0"

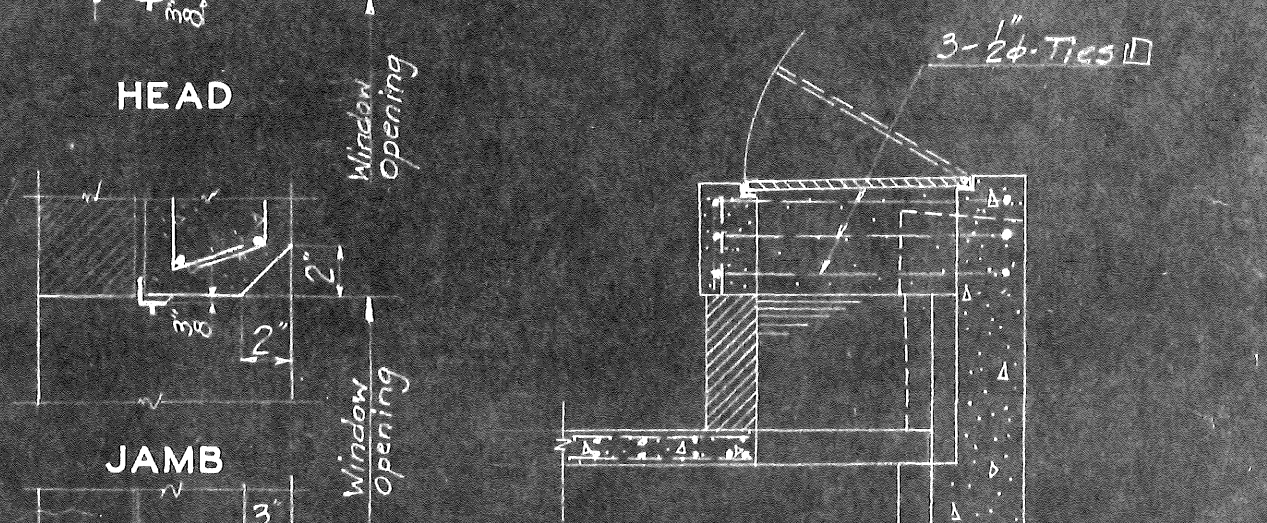


SECTION h-h  
Scale 3/8" = 1'-0"

DETAIL OF WINDOW COLS. OF MONITORS  
Scale 1/2" = 1'-0"



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



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

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

NOTE: All Reinforcement to be spliced shall be overlapped 40 Dia.  
All bearing plates for floorbeams shall be 2" thick, except otherwise noted.  
All anchorbolts for floorbeams shall be 3/4" and embedded 12" Min.  
Reinforcement Bars in Floors shall have a min. cover of 1"  
All Steel beams to be 5' below Roof Slabs

SECTION a-a

SECTION b-b  
SECTION b-b, (Opp. Hand)  
30'-3"

ARLINGTON COUNTY  
VIRGINIA  
SEWAGE TREATMENT PLANT  
DIGESTION TANKS & CONTROL BLDG.  
ROOF PLAN & SECTIONS

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

DECEMBER 1946

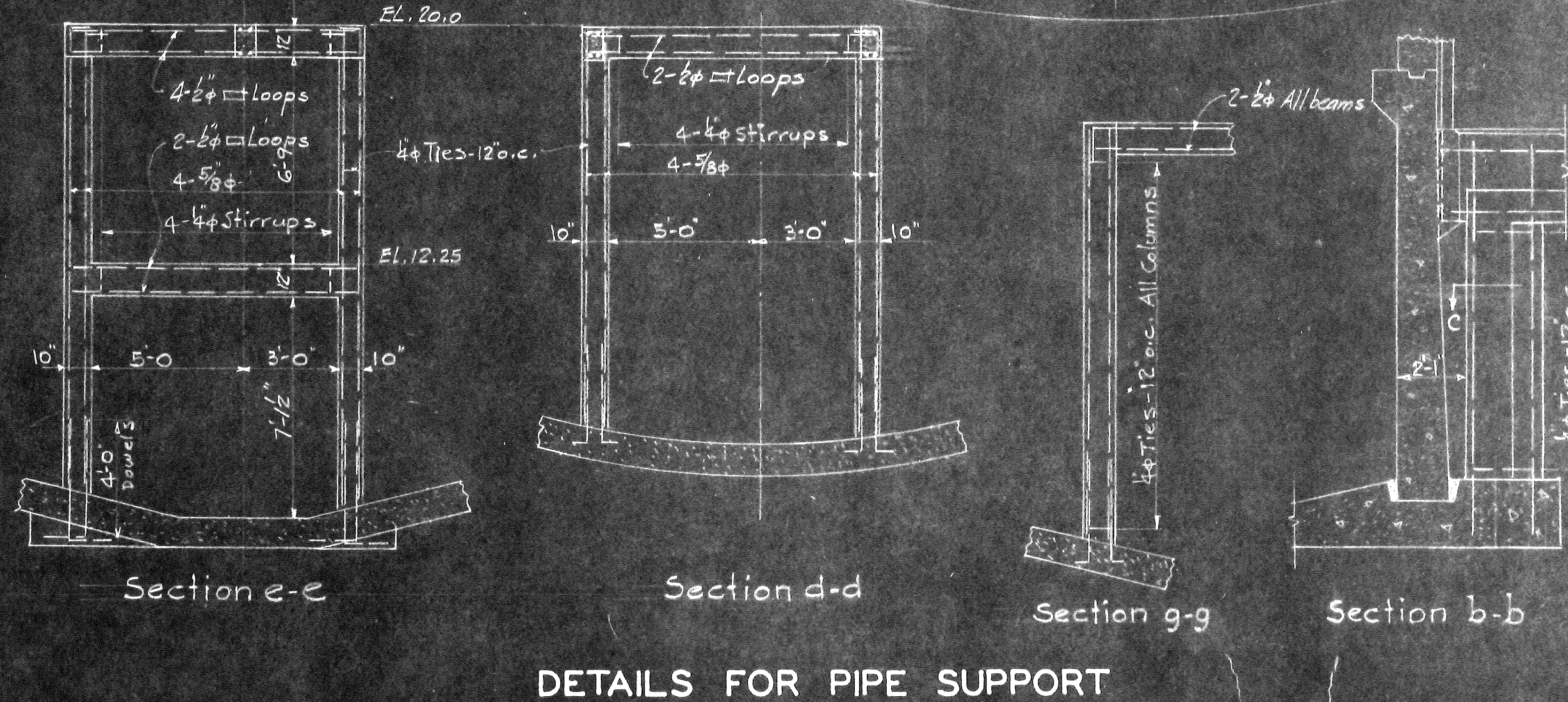
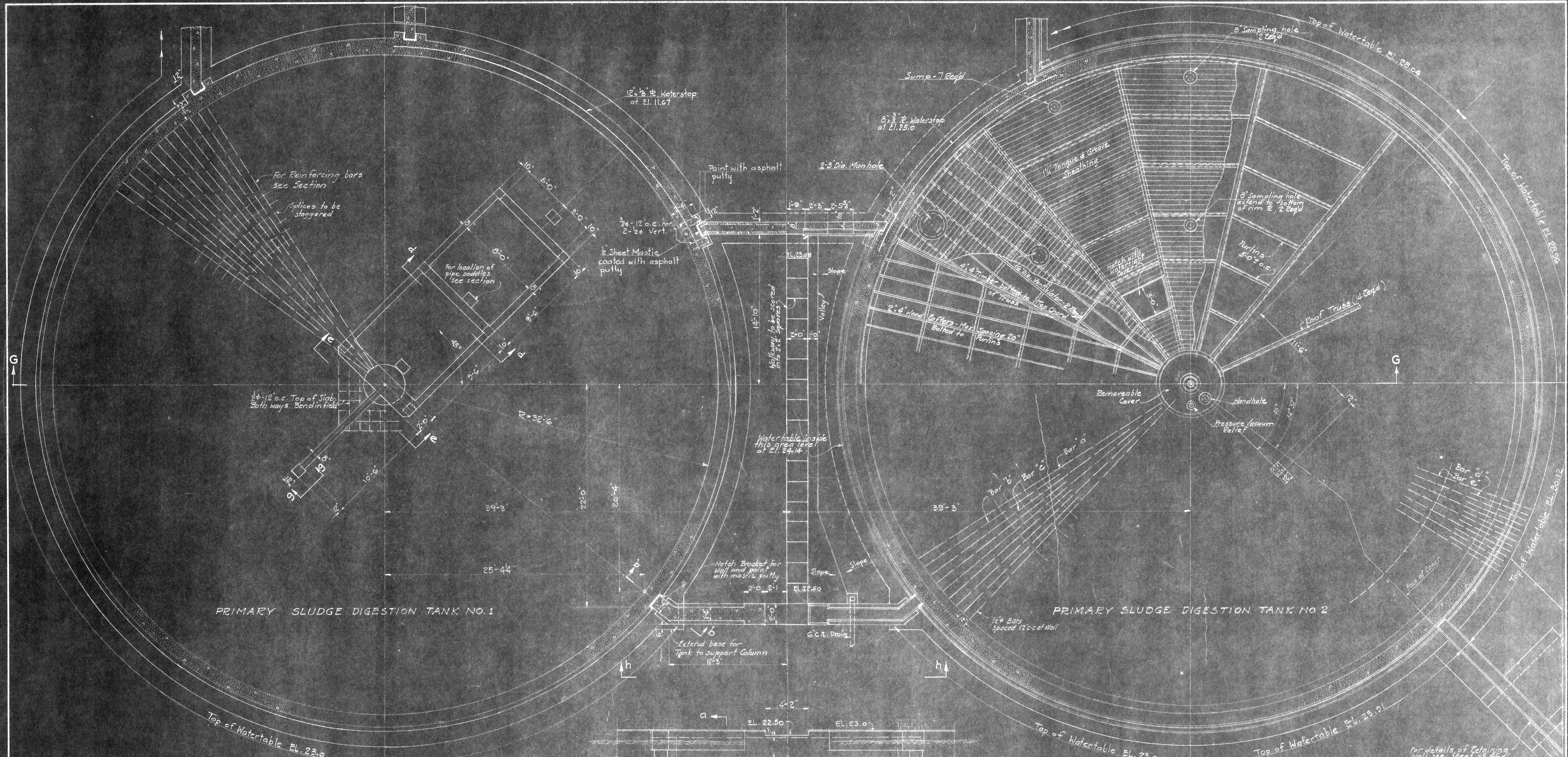
ALEXANDER POTTER ASSOCIATES  
CONSULTING ENGINEERS

BY: *Don St. Legerman*

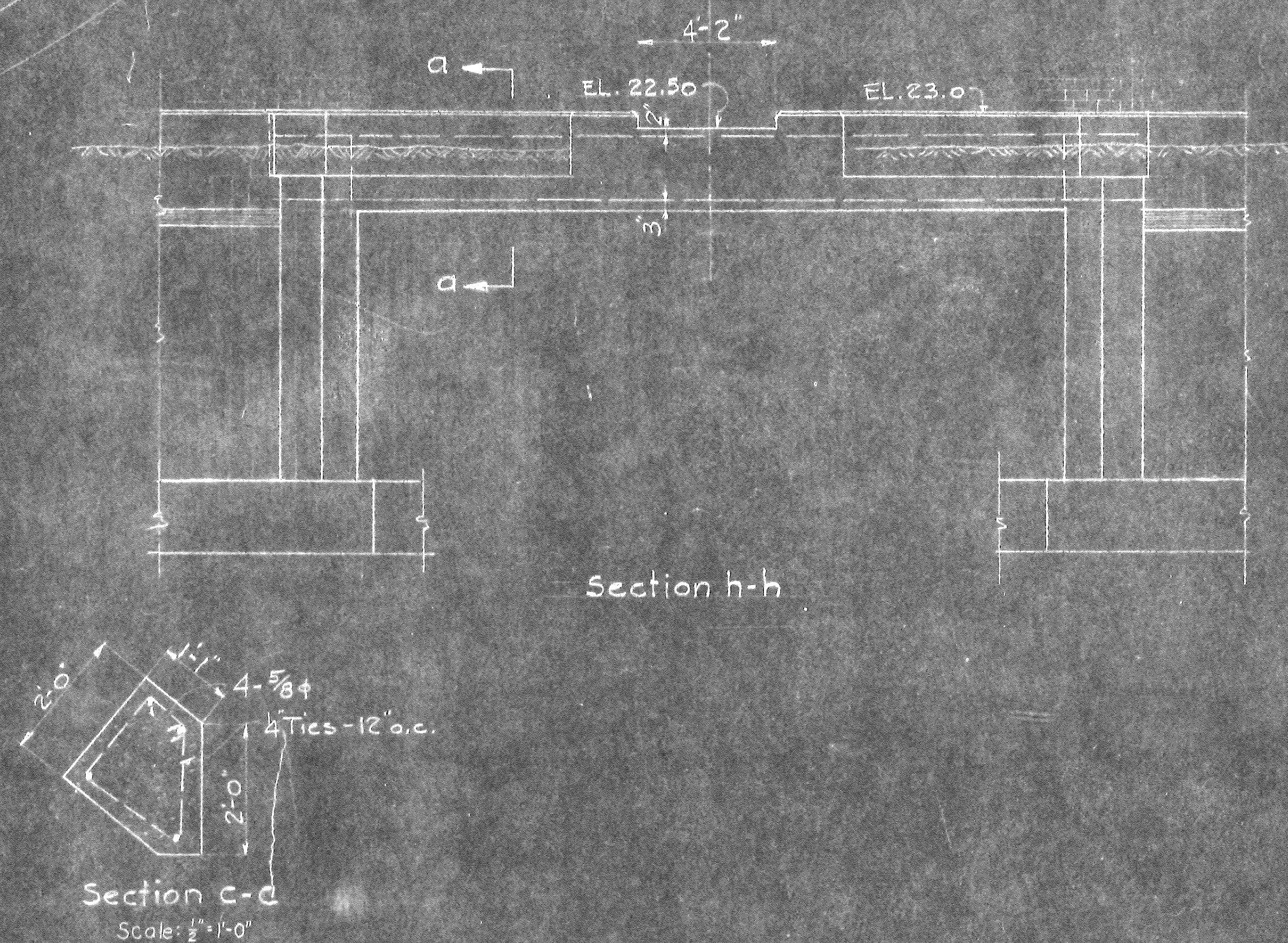
80 CHURCH STREET  
NEW YORK CITY

SHEET NO. 42

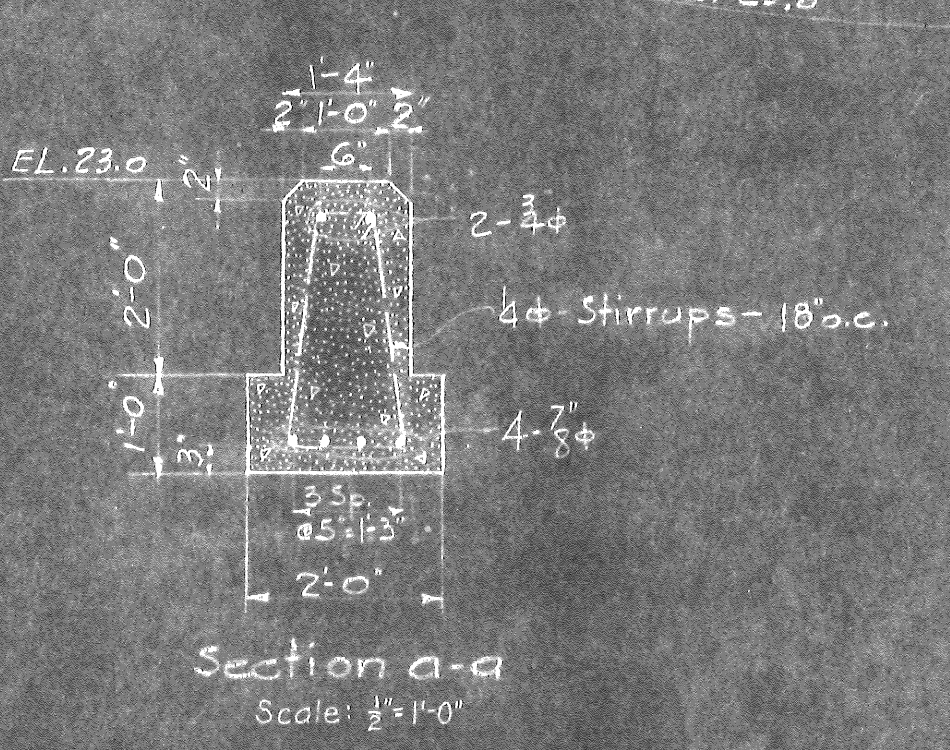




DETAILS FOR PIPE SUPPORT



Section h-h



Section a-a

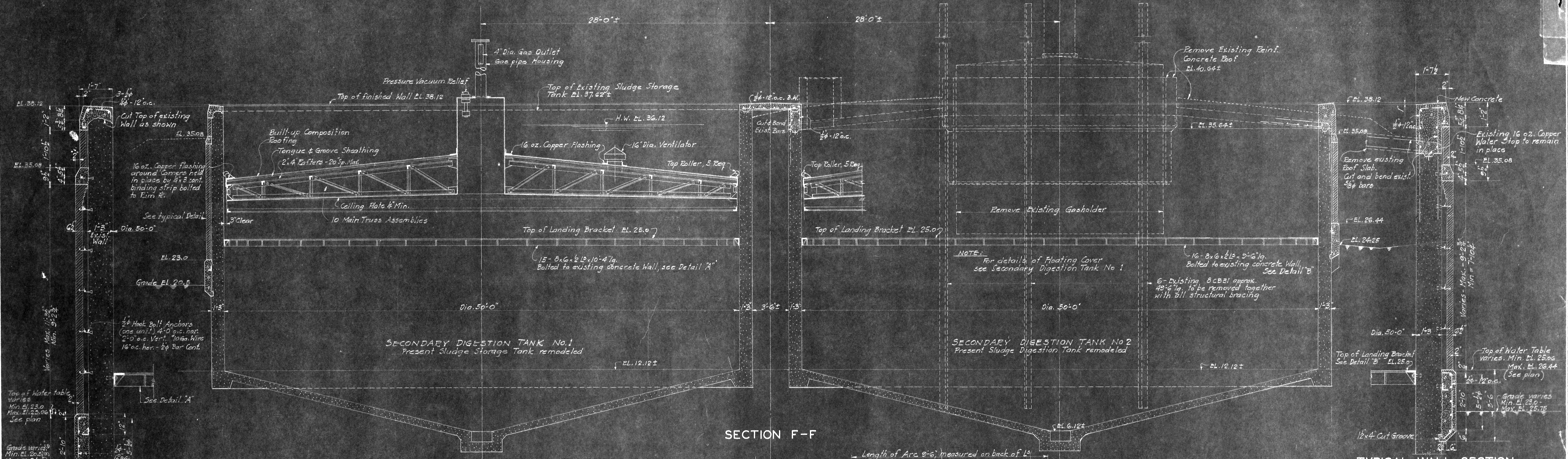
ARLINGTON COUNTY  
 VIRGINIA  
 SEWAGE TREATMENT PLANT  
 DIGESTION TANKS & CONTROL BLDG.  
 PRIMARY TANKS  
 PLAN & STRUCTURAL DETAILS

SCALE: 1/8"=1'-0" UNLESS NOTED

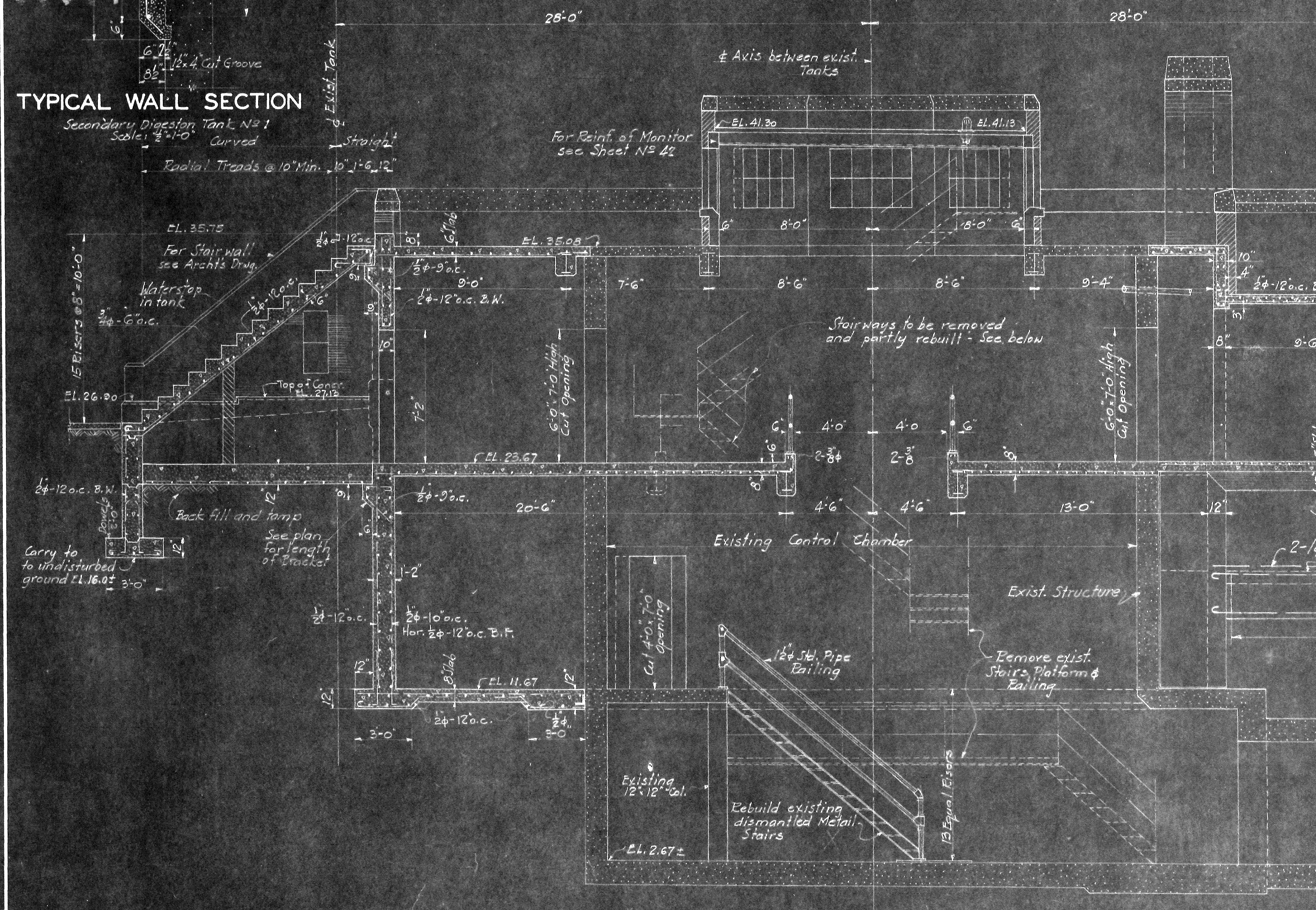
ALEXANDER POTTER ASSOCIATES  
 CONSULTING ENGINEERS  
 80 CHURCH STREET  
 NEW YORK CITY

DESIGNED BY: [Signature]  
 CHECKED BY: [Signature]



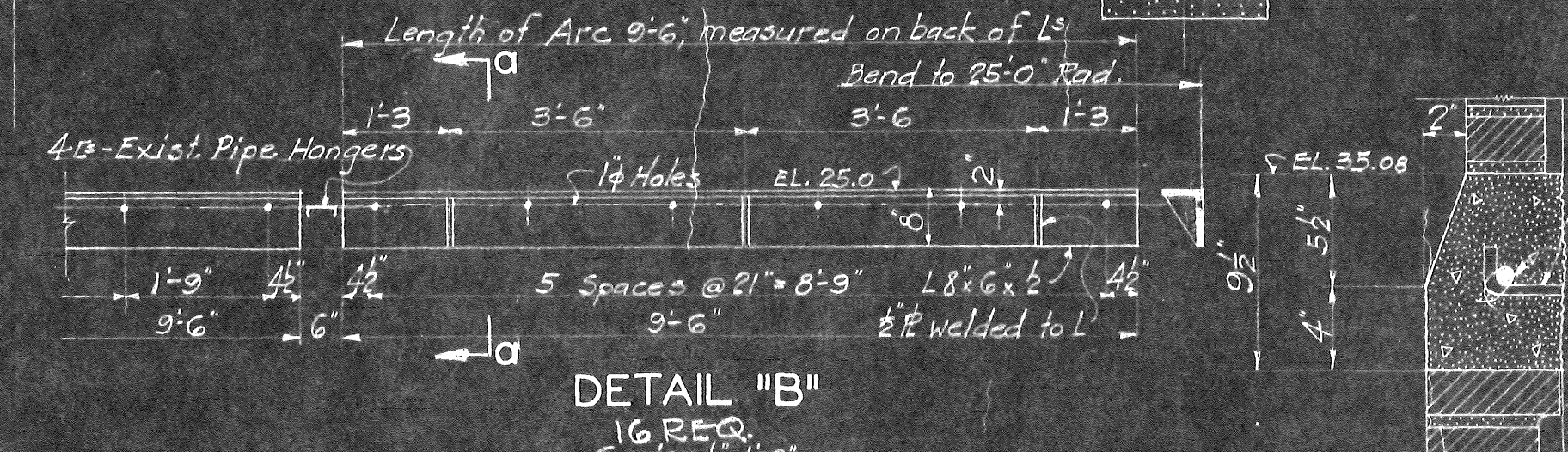


SECTION F-F

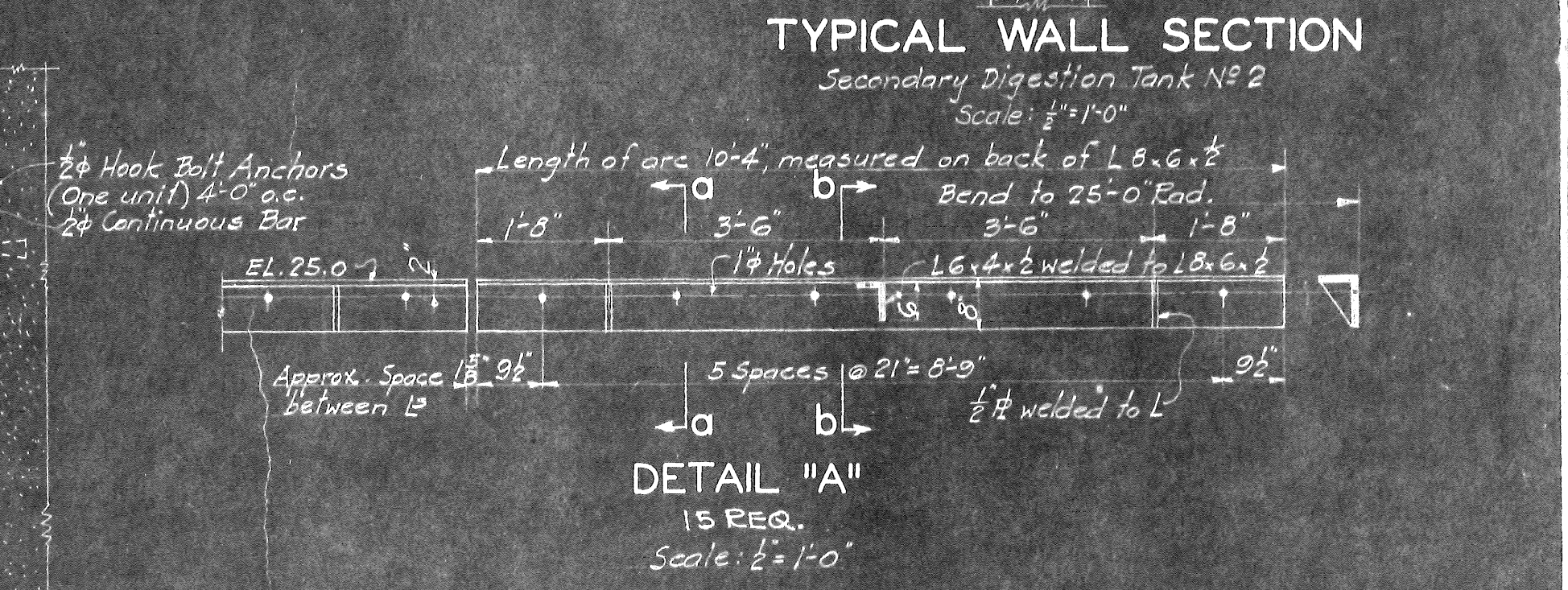


SECTION E-E

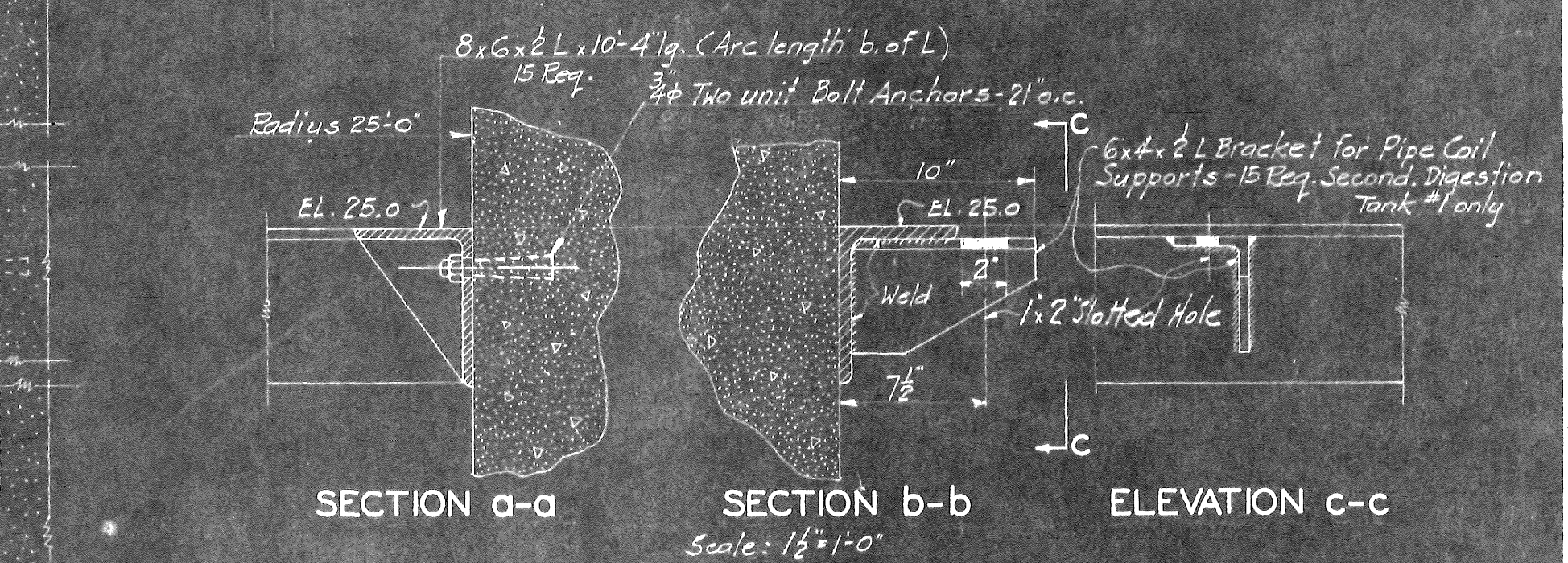
SECTION F-F



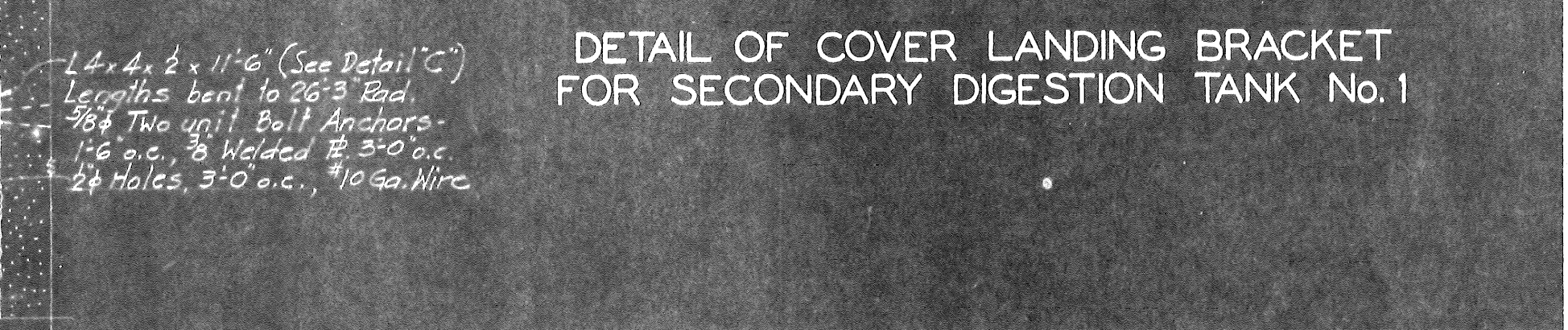
DETAIL "B"



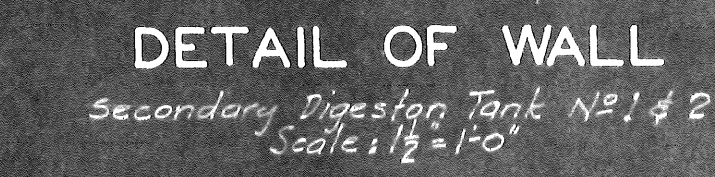
TYPICAL WALL SECTION



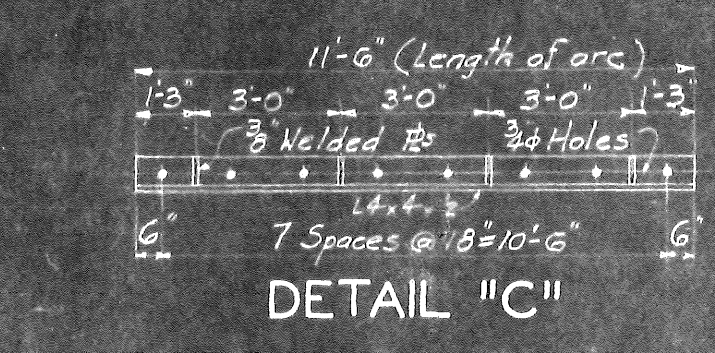
DETAIL "A"



DETAIL OF COVER LANDING BRACKET FOR SECONDARY DIGESTION TANK No. 1



DETAIL OF WALL



DETAIL "C"

ARLINGTON COUNTY VIRGINIA  
 SEWAGE TREATMENT PLANT  
 DIGESTION TANKS & CONTROL BLDG.  
 SECONDARY TANKS & CONTROL BLDG.  
 SECTIONS & STRUCTURAL DETAILS

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

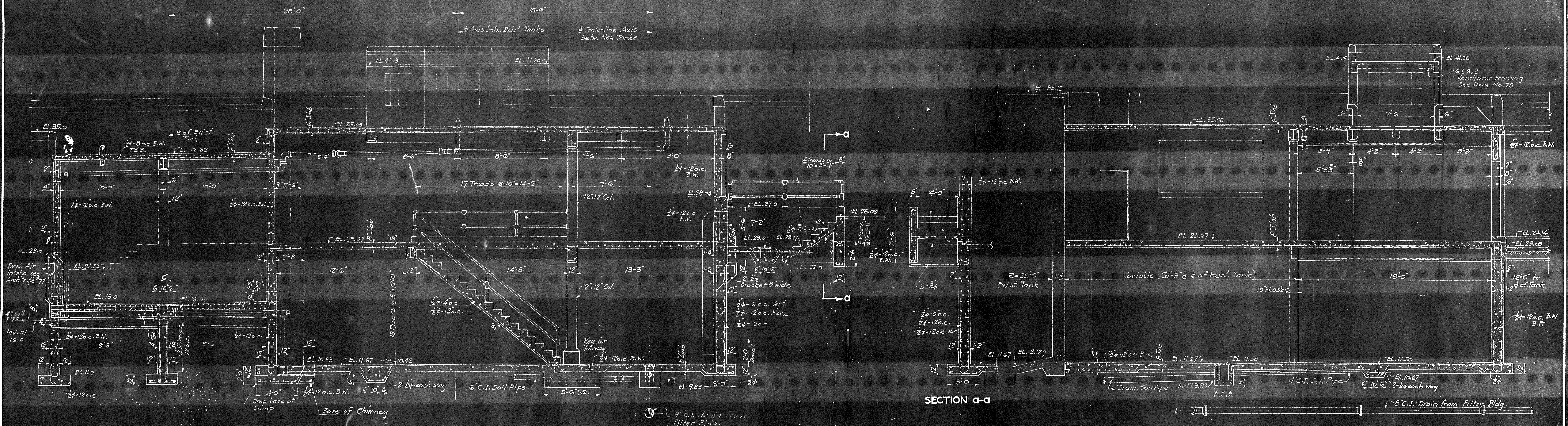
ALEXANDER POTTER ASSOCIATES  
 CONSULTING ENGINEERS

80 CHURCH STREET  
 NEW YORK CITY

BY: *[Signature]*

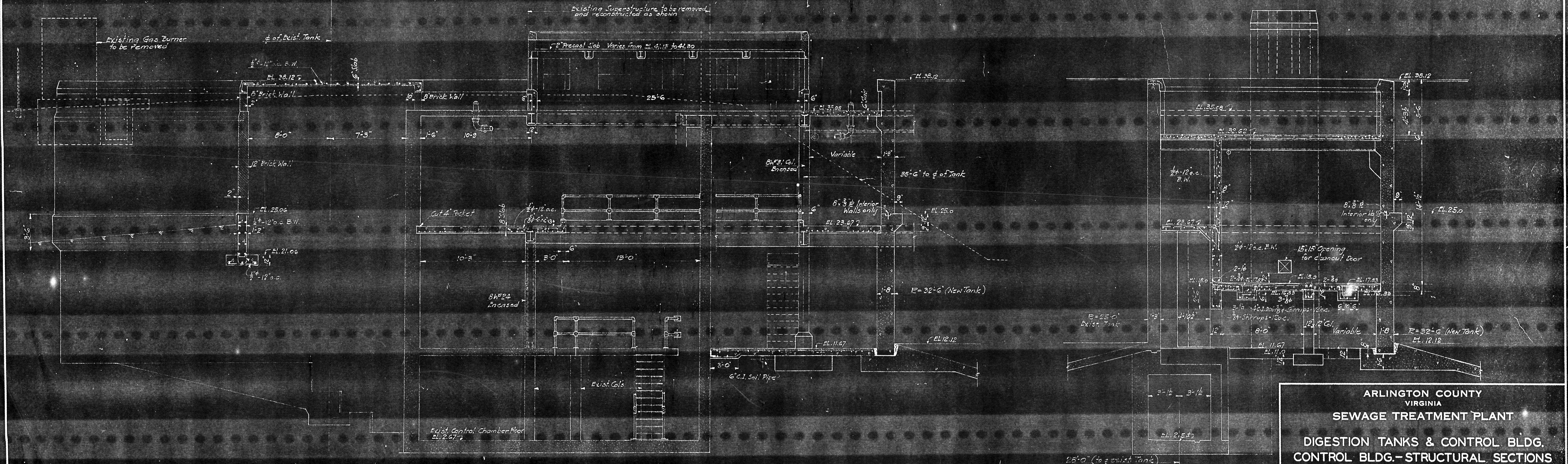
SHEET NO. 44





SECTION A-A

SECTION C-C



SECTION B-B

SECTION D-D

ARLINGTON COUNTY  
VIRGINIA  
**SEWAGE TREATMENT PLANT**  
DIGESTION TANKS & CONTROL BLDG.  
CONTROL BLDG.—STRUCTURAL SECTIONS

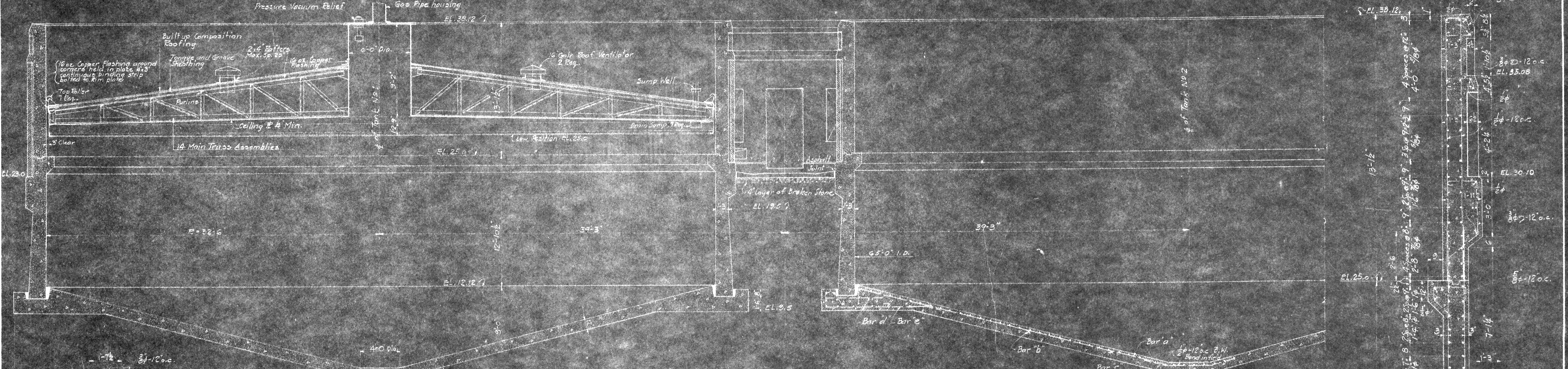
SCALE: 1/4" = 1'-0"  
DECEMBER 1966

ALEXANDER POTTER ASSOCIATES  
CONSULTING ENGINEERS  
BY: *A. H. Hagan*

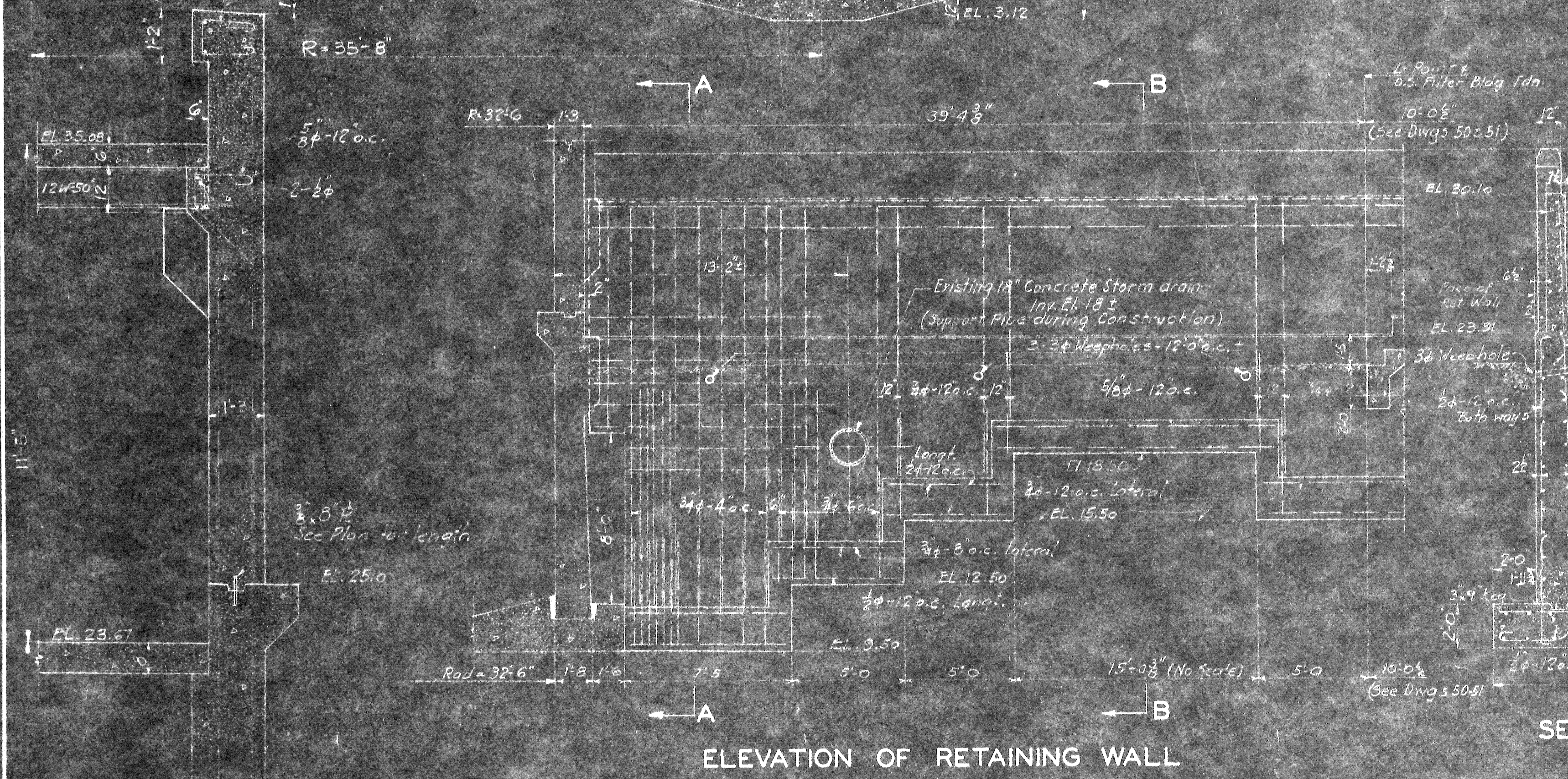
90 CHURCH STREET  
NEW YORK CITY

SHEET NO. 45

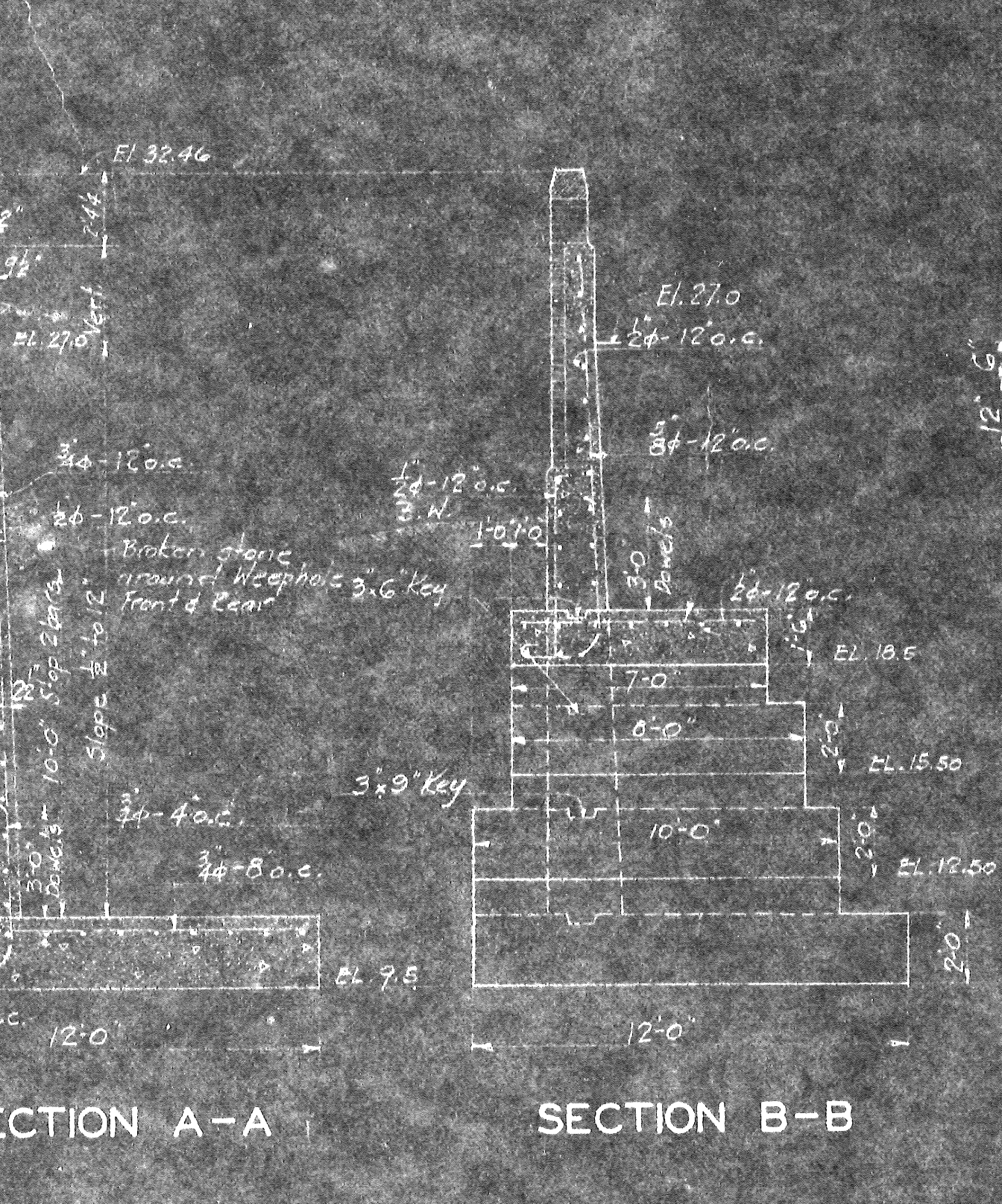




SECTION G-G

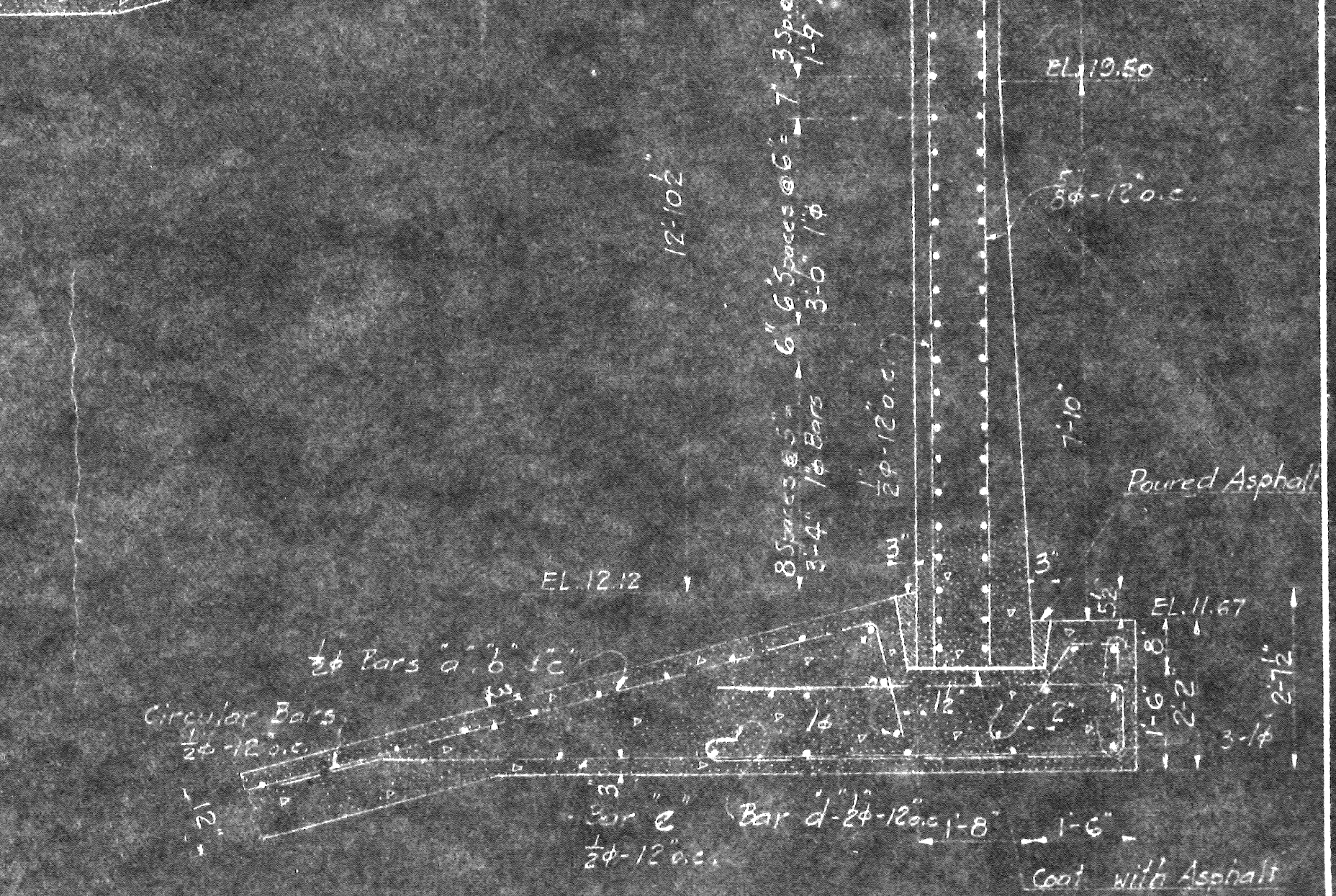


ELEVATION OF RETAINING WALL



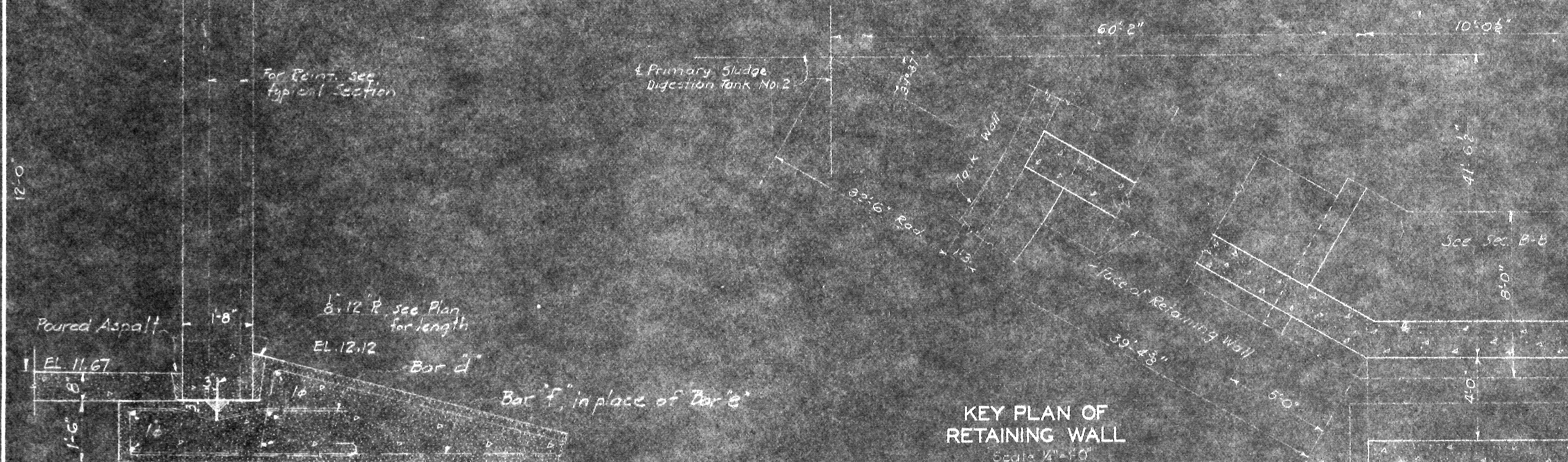
SECTION A-A

SECTION B-B

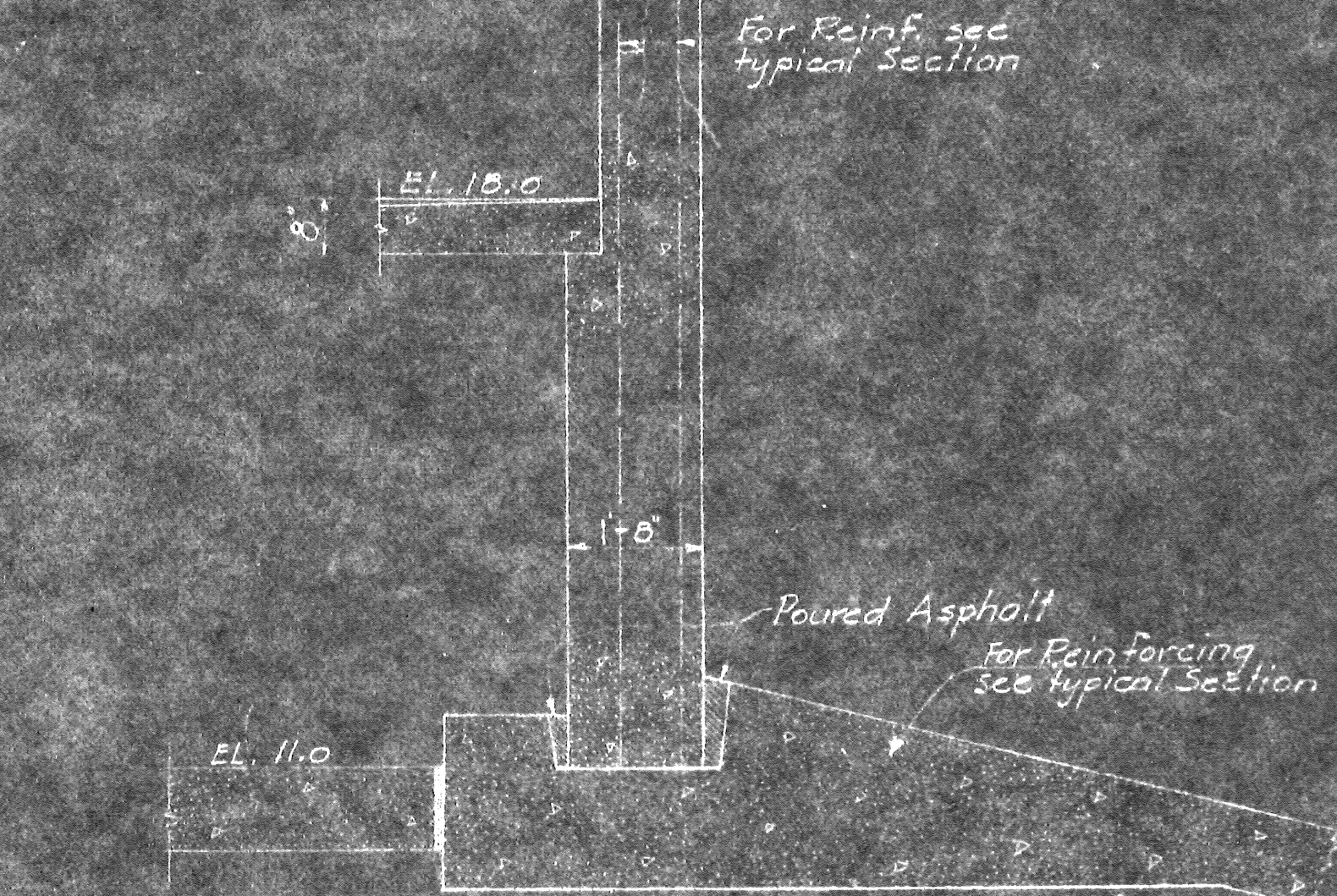


TYPICAL TANK WALL SECTION AT C

Scale: 1/2"=1'-0"  
 This section typical except for variable elevation of water table. See Sheet No. 43.



KEY PLAN OF RETAINING WALL

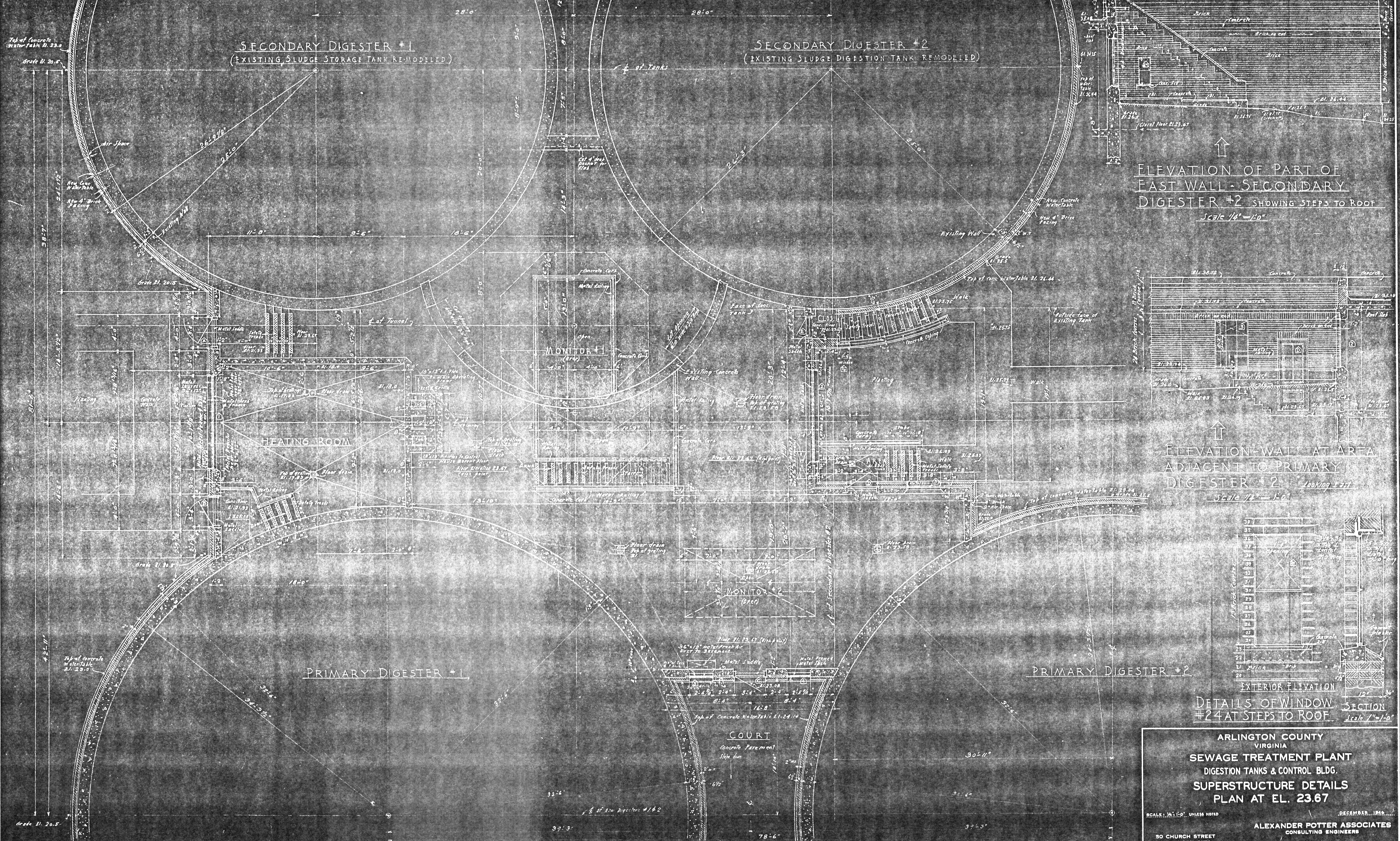


SECTION OF TANK WALL AT HEATING ROOM

ARLINGTON COUNTY  
 VIRGINIA  
**SEWAGE TREATMENT PLANT**  
 DIGESTION TANKS & CONTROL BLDG.  
**PRIMARY TANKS - STRUCTURAL SECTIONS AND DETAILS**

SCALE AS NOTED  
 DECEMBER 1966  
 ALEXANDER POTTER ASSOCIATES  
 CONSULTING ENGINEERS  
 50 CHURCH STREET  
 NEW YORK CITY  
 BY: *A. H. K. [Signature]*





ELEVATION OF PART OF EAST WALL - SECONDARY DIGESTER #2 SHOWING STEPS TO ROOF  
Scale 1/4" = 1'-0"

ELEVATION WALL AT AREA ADJACENT TO PRIMARY DIGESTER #2  
Scale 1/4" = 1'-0"

EXTERIOR ELEVATION  
DETAILS OF WINDOW #24 AT STEPS TO ROOF  
Scale 1" = 1'-0"

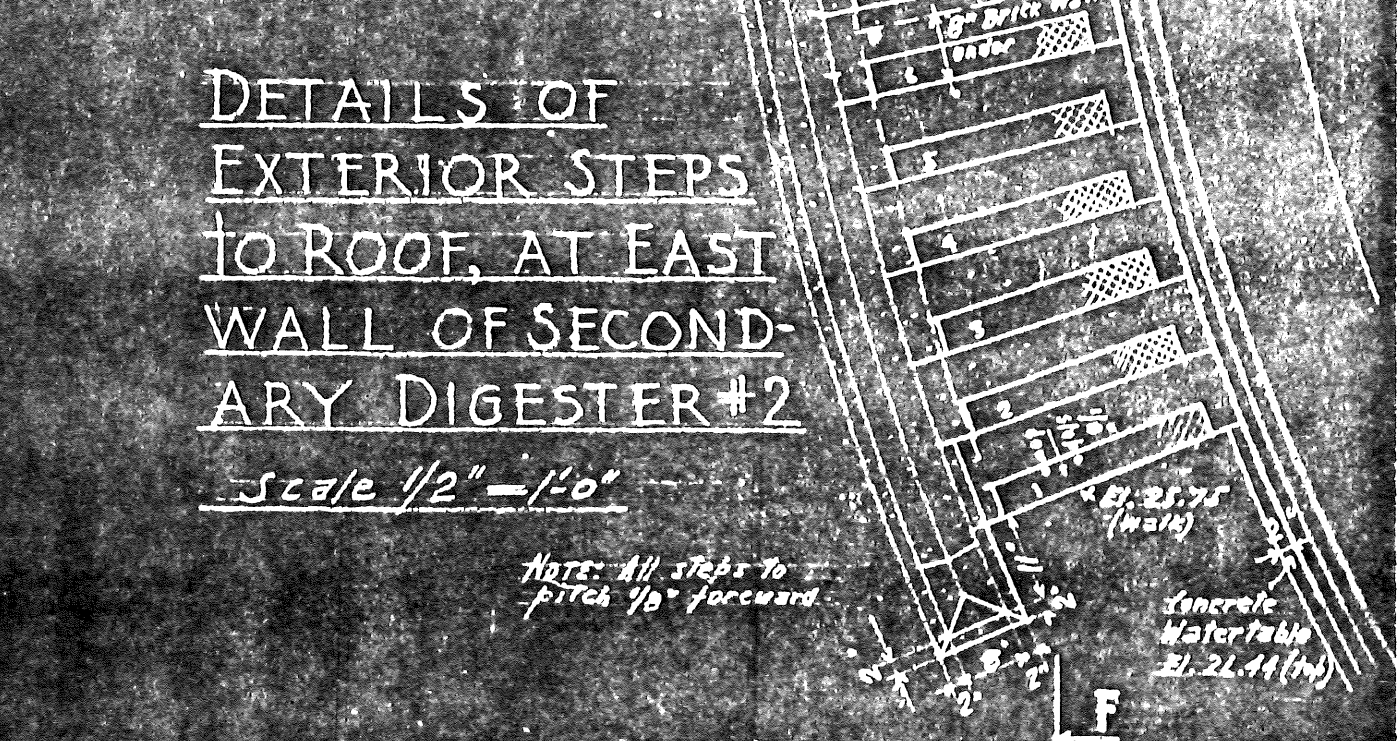
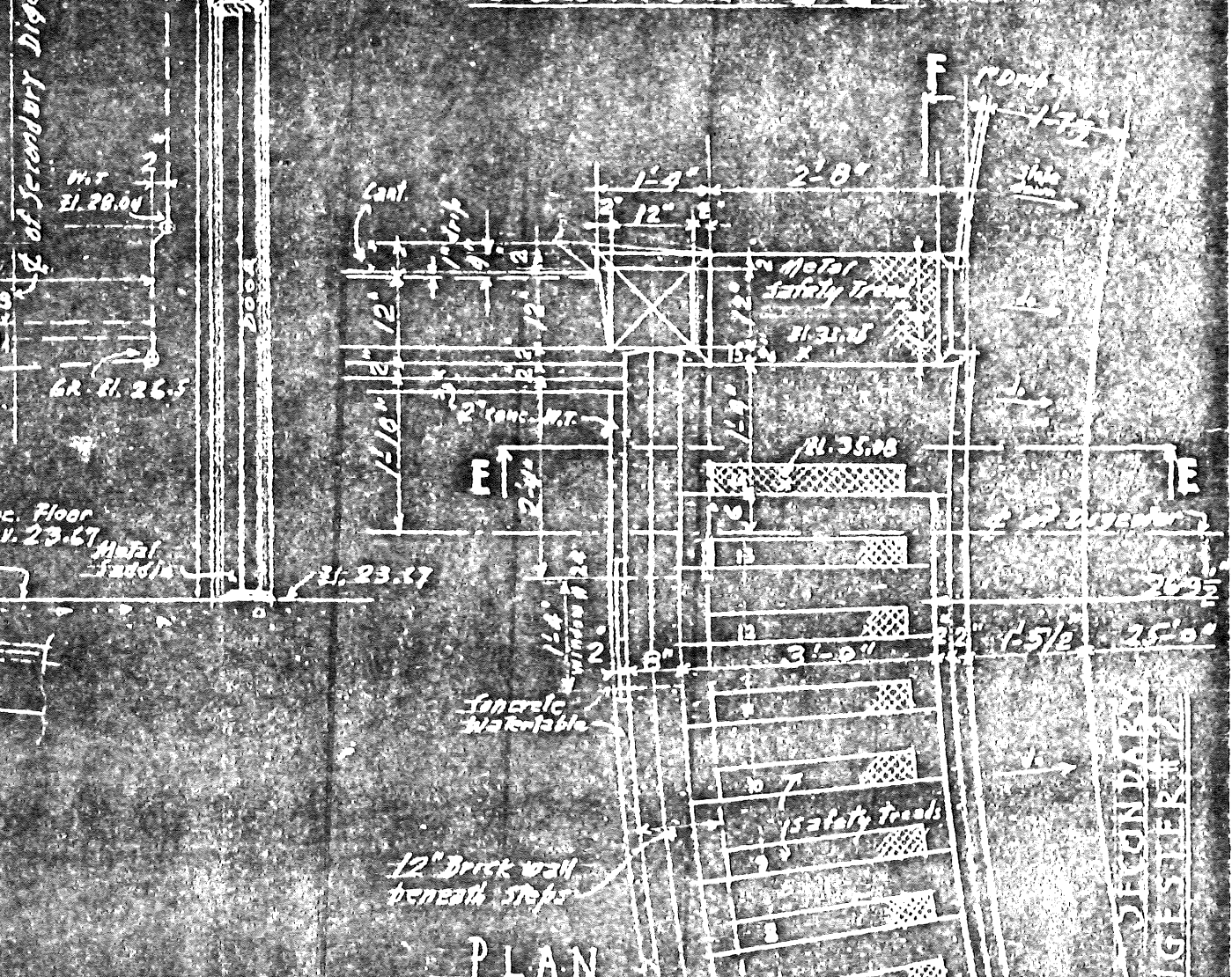
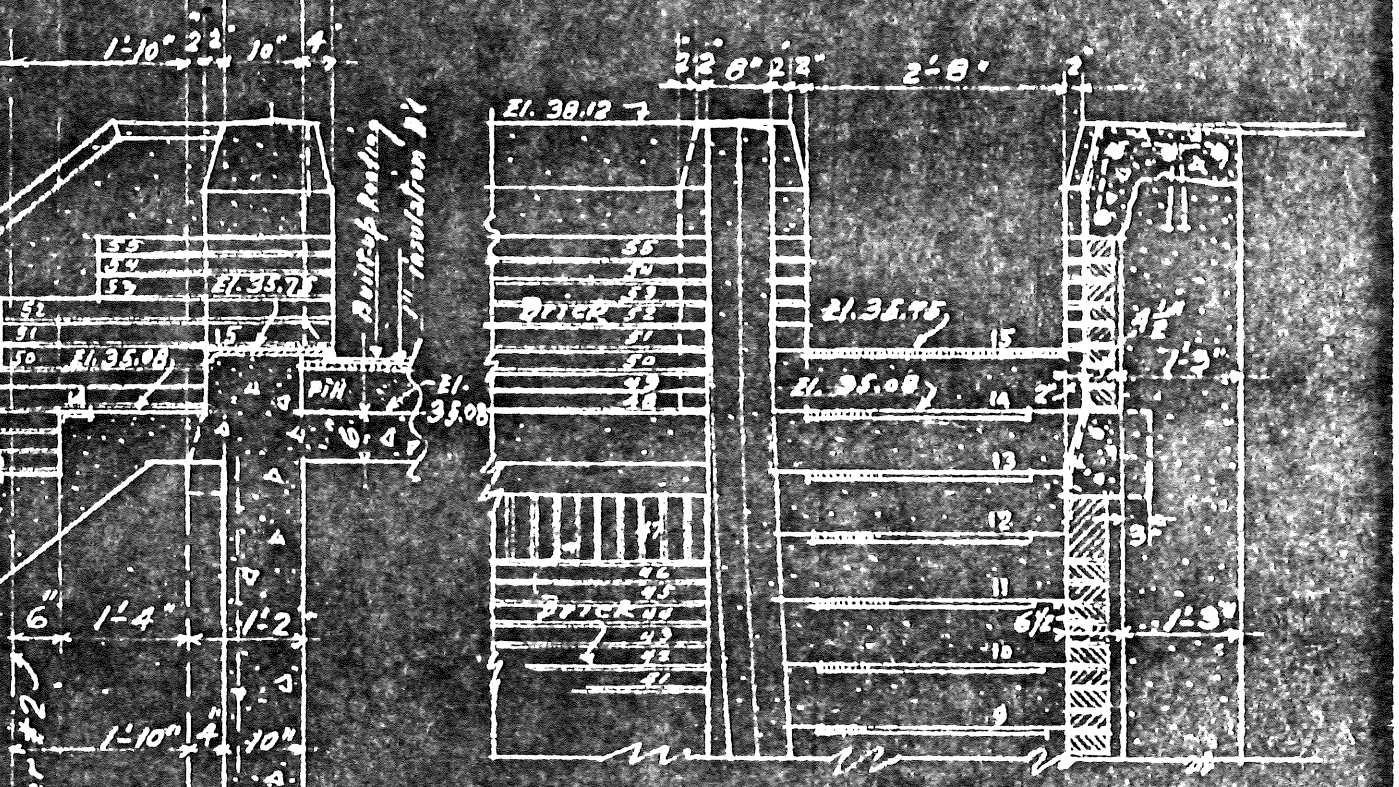
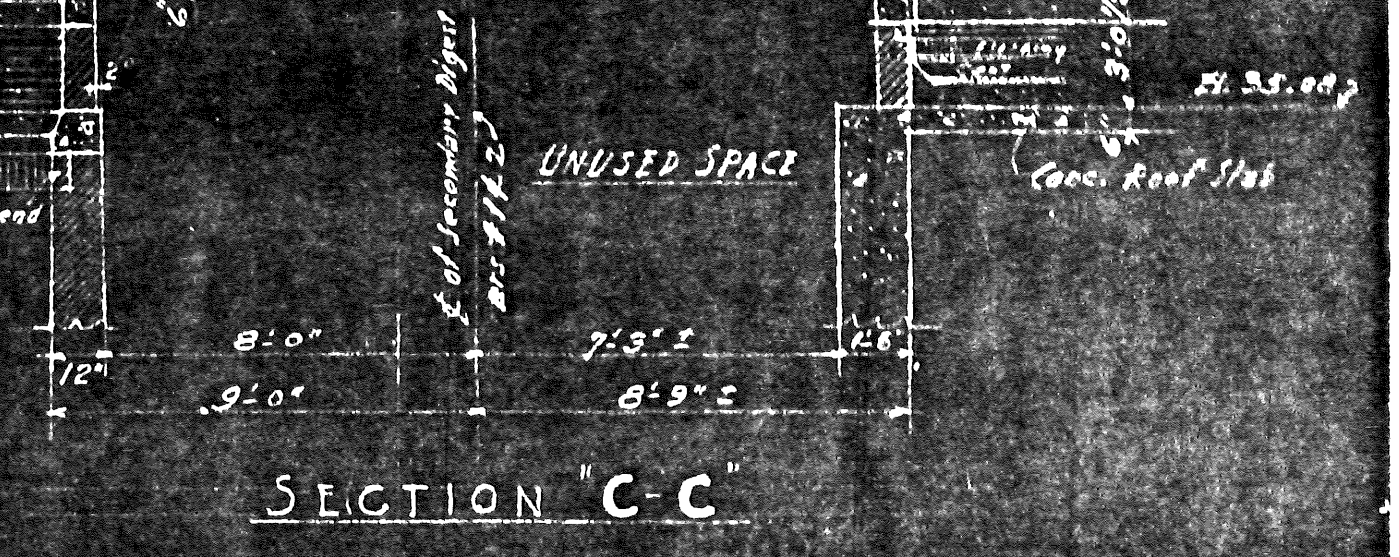
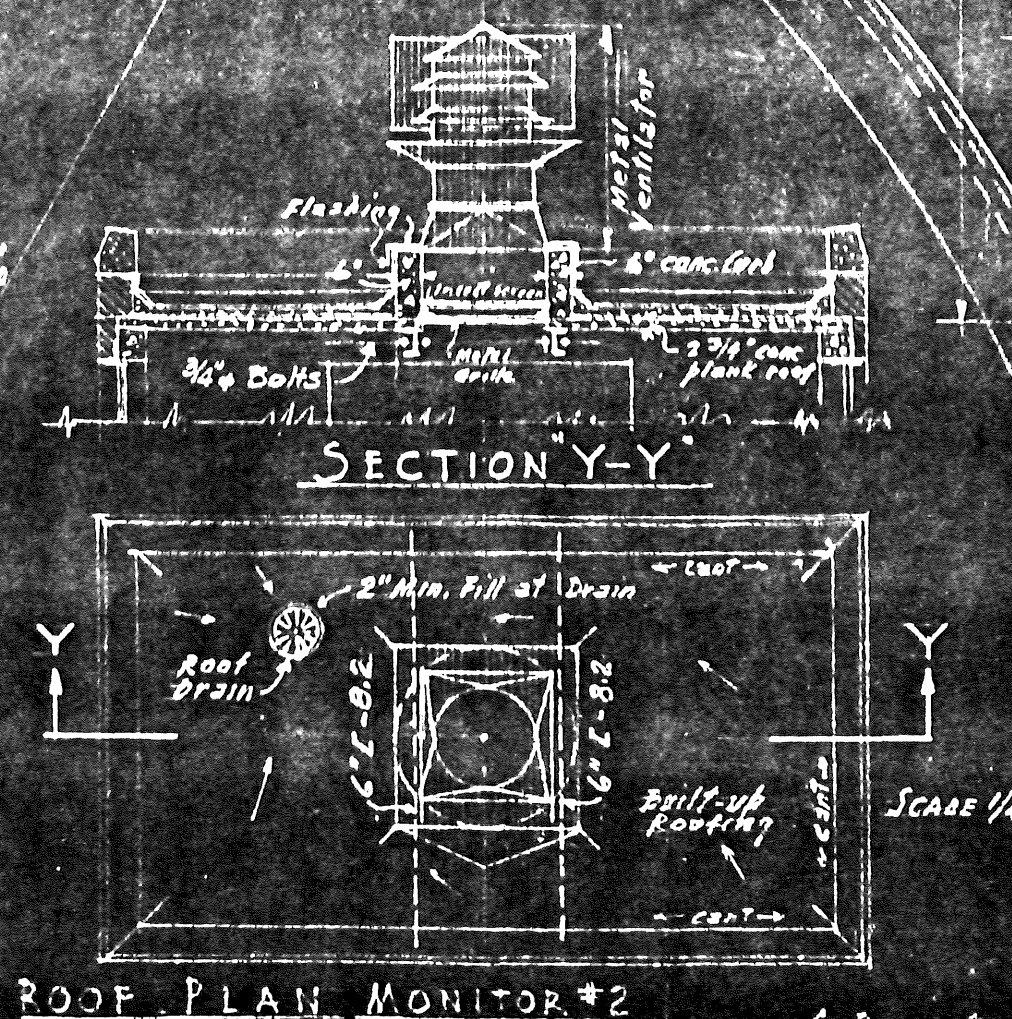
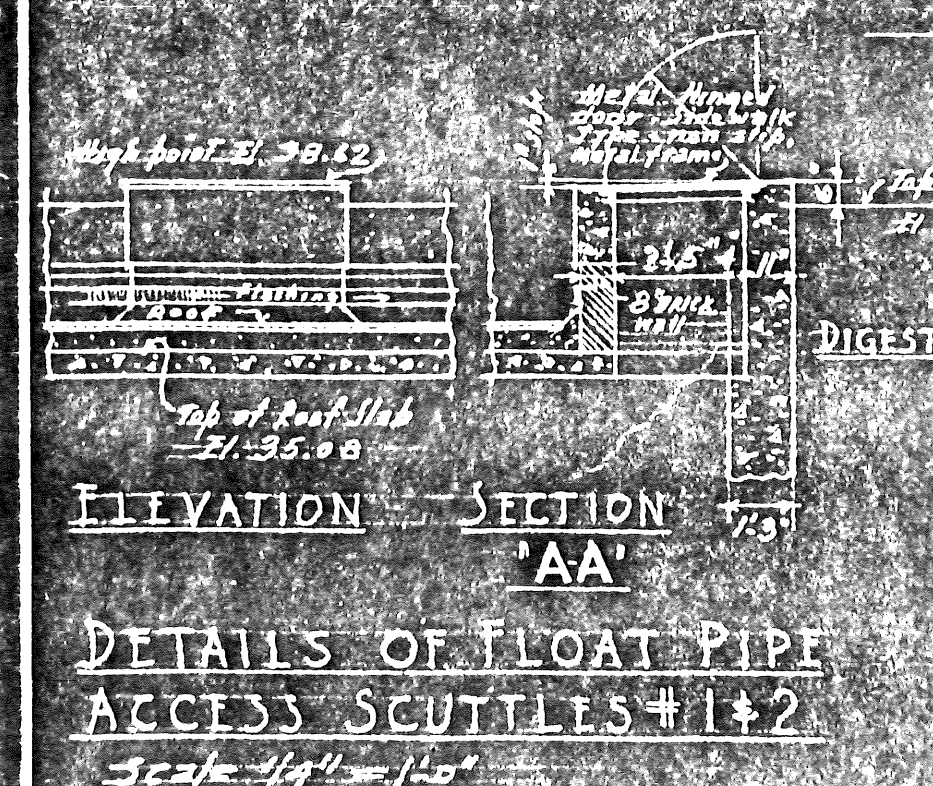
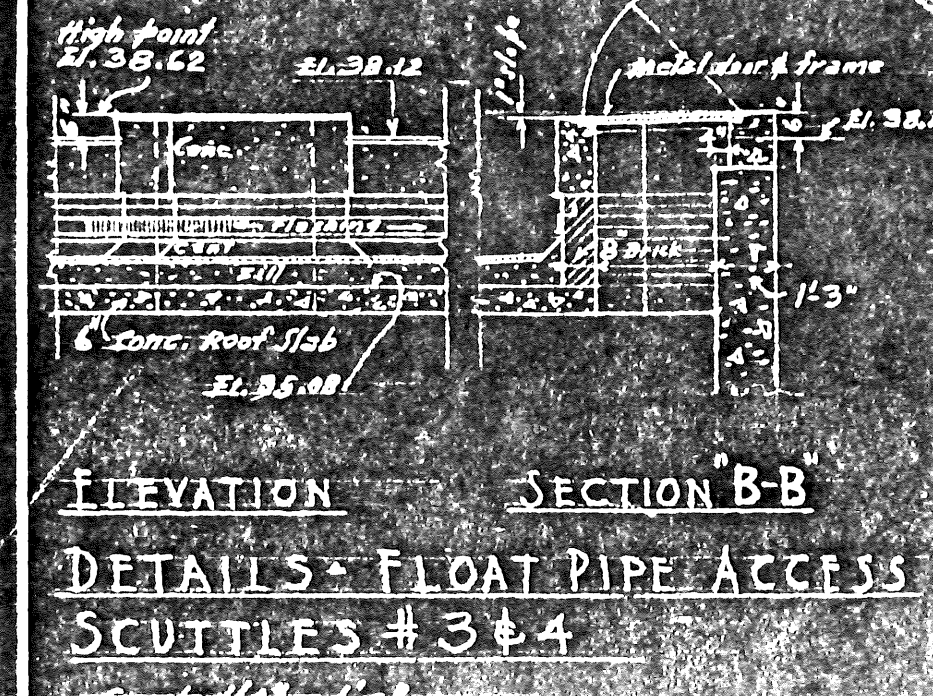
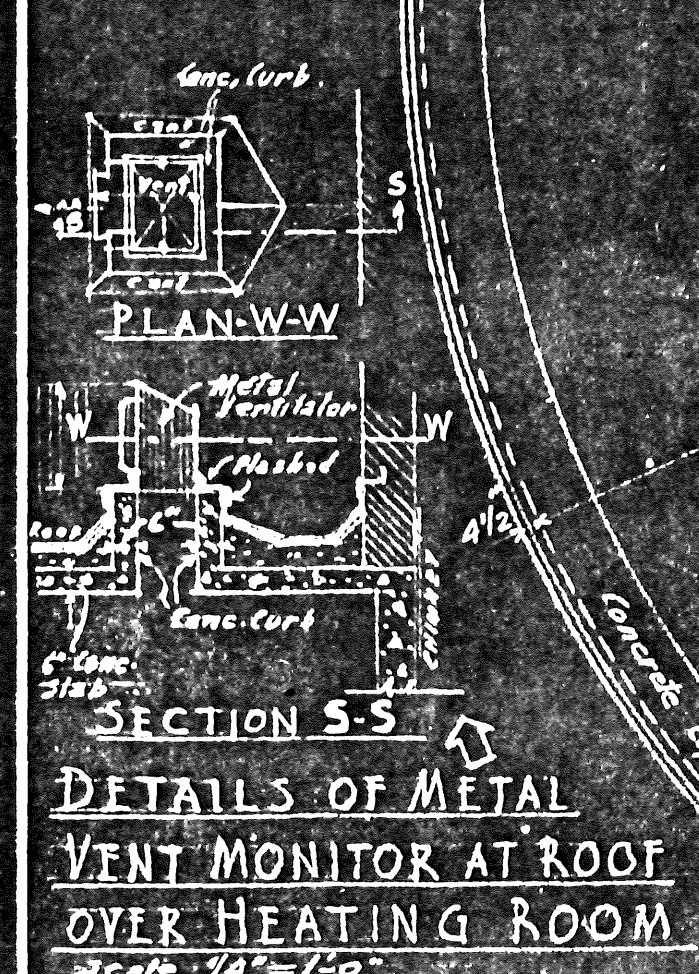
ARLINGTON COUNTY  
VIRGINIA  
SEWAGE TREATMENT PLANT  
DIGESTION TANKS & CONTROL BLDG.  
SUPERSTRUCTURE DETAILS  
PLAN AT EL. 23.67

SCALE: 1/4" = 1'-0" UNLESS NOTED  
DECEMBER, 1946  
ALEXANDER POTTER ASSOCIATES  
CONSULTING ENGINEERS  
BY: J. H. Hagerman



SECONDARY DIGESTER #1  
(EXISTING SLUDGE STORAGE TANK REMODELED)

SECONDARY DIGESTER #2  
(EXISTING SLUDGE DIGESTION TANK REMODELED)



ARLINGTON COUNTY  
VIRGINIA  
SEWAGE TREATMENT PLANT  
DIGESTION TANKS & CONTROL BLDG.  
SUPERSTRUCTURE DETAILS  
ROOF PLAN & MISC. DETAILS

SCALE: 1/4" = 1'-0" UNLESS NOTED  
DECEMBER 1946

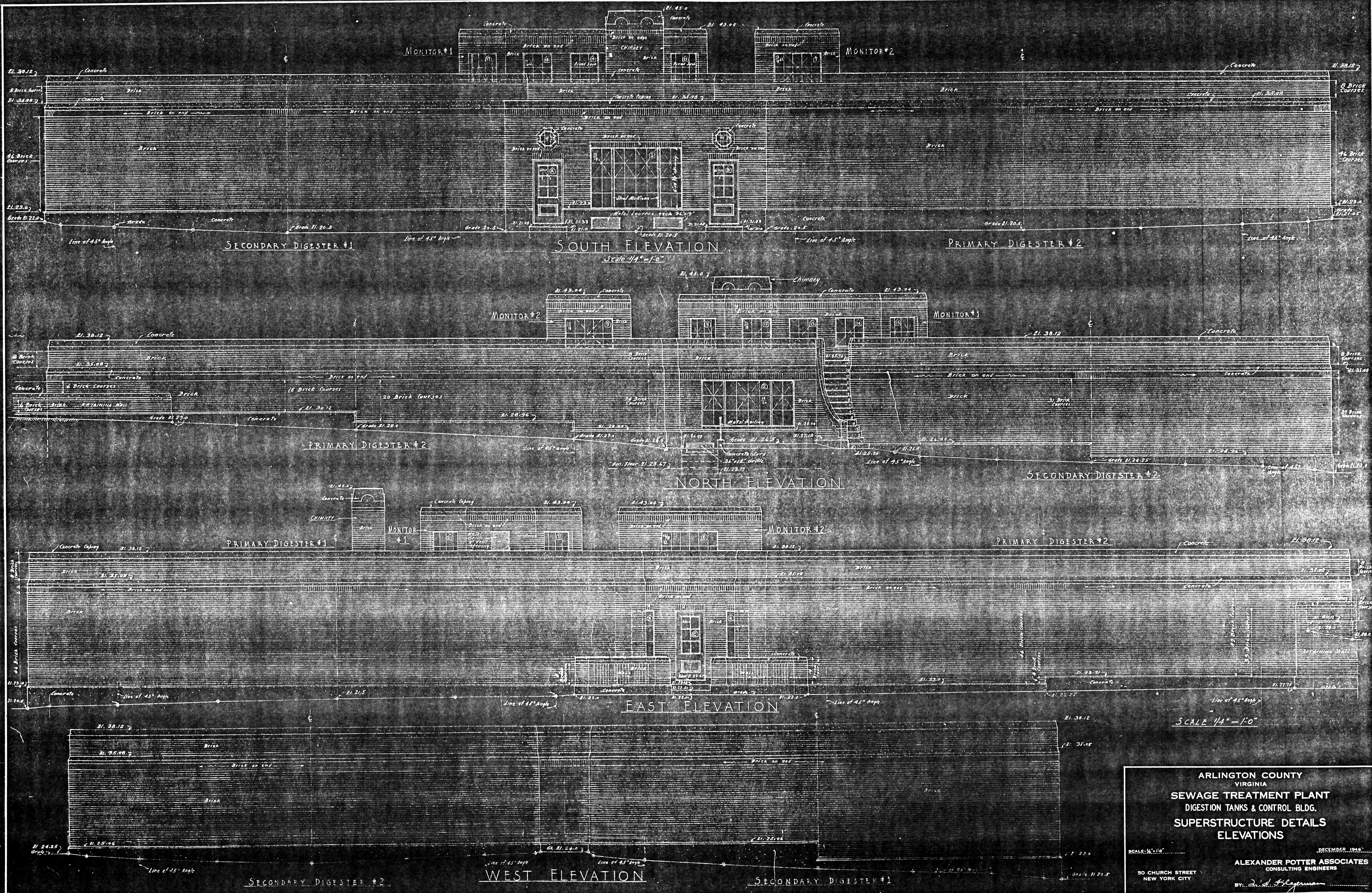
ALEXANDER POTTER ASSOCIATES  
CONSULTING ENGINEERS  
BY: [Signature]

50 CHURCH STREET  
NEW YORK CITY

PRIMARY DIGESTER #1

PRIMARY DIGESTER #2





SCALE 1/4" = 1'-0"

ARLINGTON COUNTY  
 VIRGINIA  
 SEWAGE TREATMENT PLANT  
 DIGESTION TANKS & CONTROL BLDG.  
 SUPERSTRUCTURE DETAILS  
 ELEVATIONS

SCALE: 1/4" = 1'-0"  
 50 CHURCH STREET  
 NEW YORK CITY  
 ALEXANDER POTTER ASSOCIATES  
 CONSULTING ENGINEERS  
 BY: *D. J. Fitzgerald*  
 DECEMBER 1946