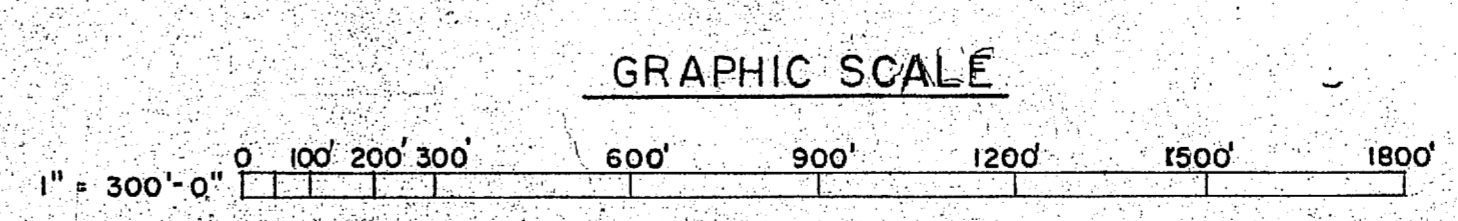
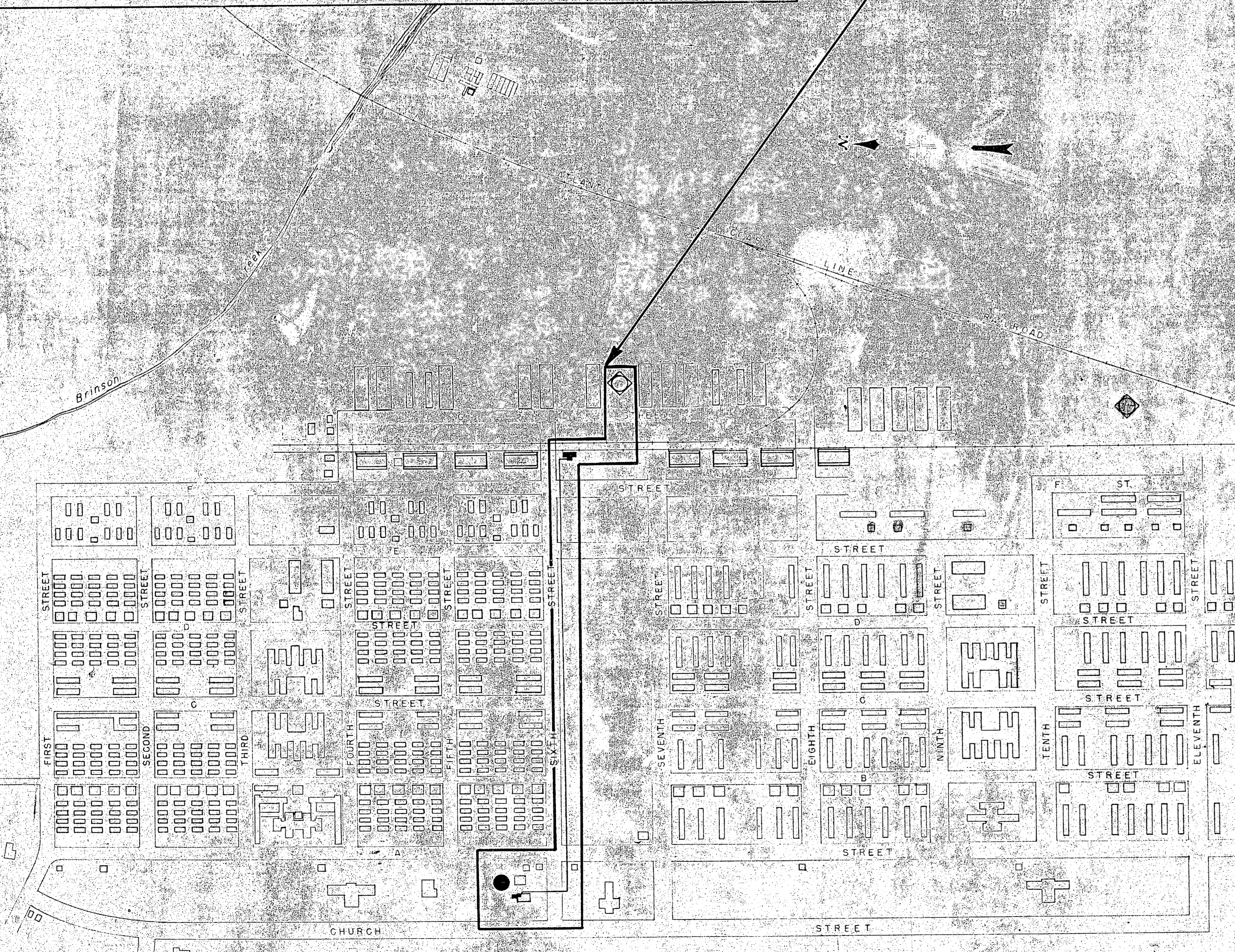


CONTRACT NOY 83255
SPECIFICATION NO. 41919

INDEX OF DRAWINGS

TITLE	Y & D DRAWING NUMBER
INDEX	645299
SITE PLANS	645300
600,000 GALLON RESERVOIR, STRUCTURAL PLAN AND DETAILS	645301
SALT STORAGE TANKS, STRUCTURAL AND MECHANICAL PLANS AND DETAILS	645302
ALTERATIONS TO SOFTENING PLANT, PLANS, ELEVATIONS AND DETAILS	645303
ELECTRICAL PLANS AND DETAILS	645304
MISCELLANEOUS PIPING DETAILS	645305
YARD PIPING AND SEWAGE DISPOSAL SYSTEM, PLANS AND DETAILS	645306
DRAINAGE OUTFALL SYSTEM PLAN AND PROFILE	645307



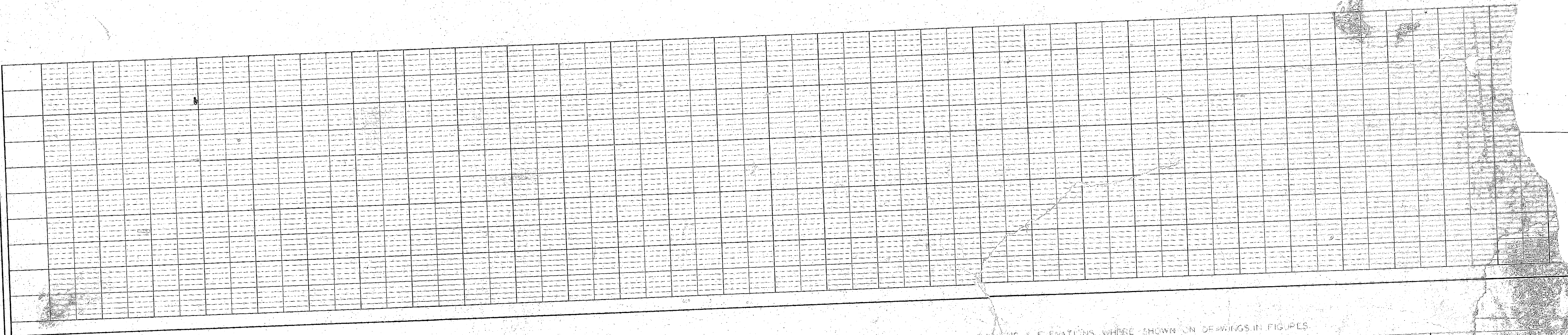
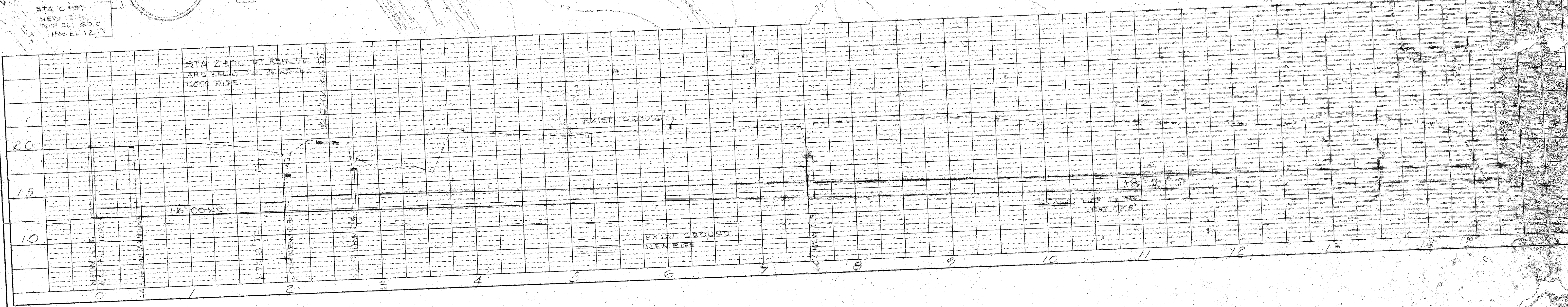
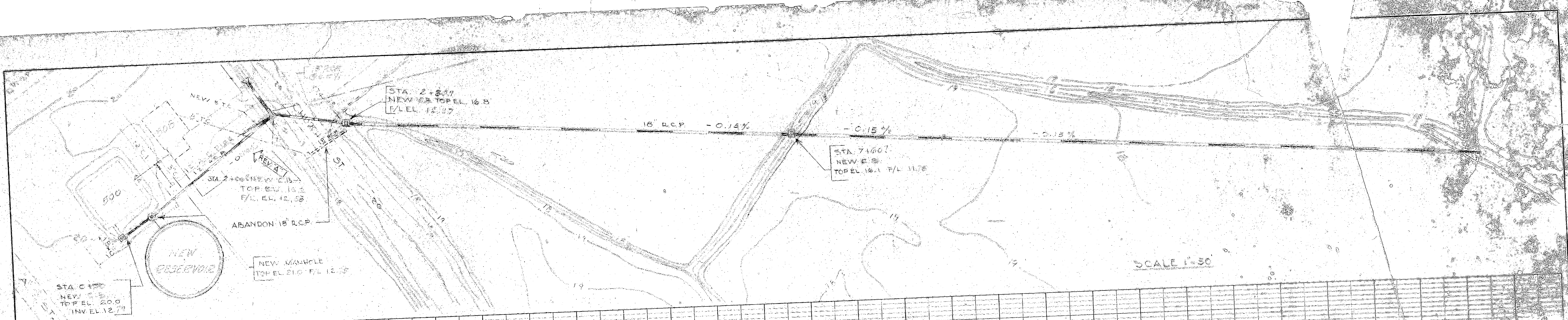
REVISION	DATE	APPD.	DESCRIPTION	BY
			MARINE BARRACKS CAMP LEJEUNE, N.C.	
P.W. DRAWING NO.		10199		
DESIGNER		EXPANSION WATER TREATMENT FACILITIES CAMP GEIGER		
DRAWN		INDEX		
TRACED		APPROVED <i>[Signature]</i> DATE 7 May 84		
CHECKED		PUBLIC WORKS OFFICER		
SUPERVISOR		APPROVED FOR BUREAU OF YARDS & DOCKS		
SATSFACTORY TO		SCALE GRAPHIC SPEC 41919		
DATE		SHEET 1 OF 2 NOY 83255		
THE QUARTERMASTER GENERAL OF THE MARINE CORPS		DPWO FOR CHIEF OF BUREAU		
		Y & D DRAWING NO. 645299		

7-5326
Paul Rells

CW Scott

Gene G.W. Lane

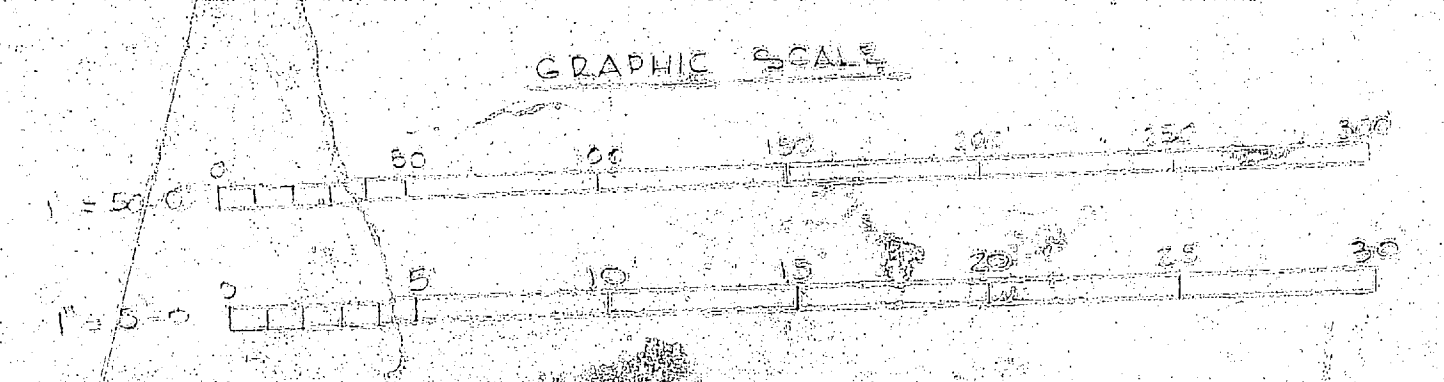




LEGEND

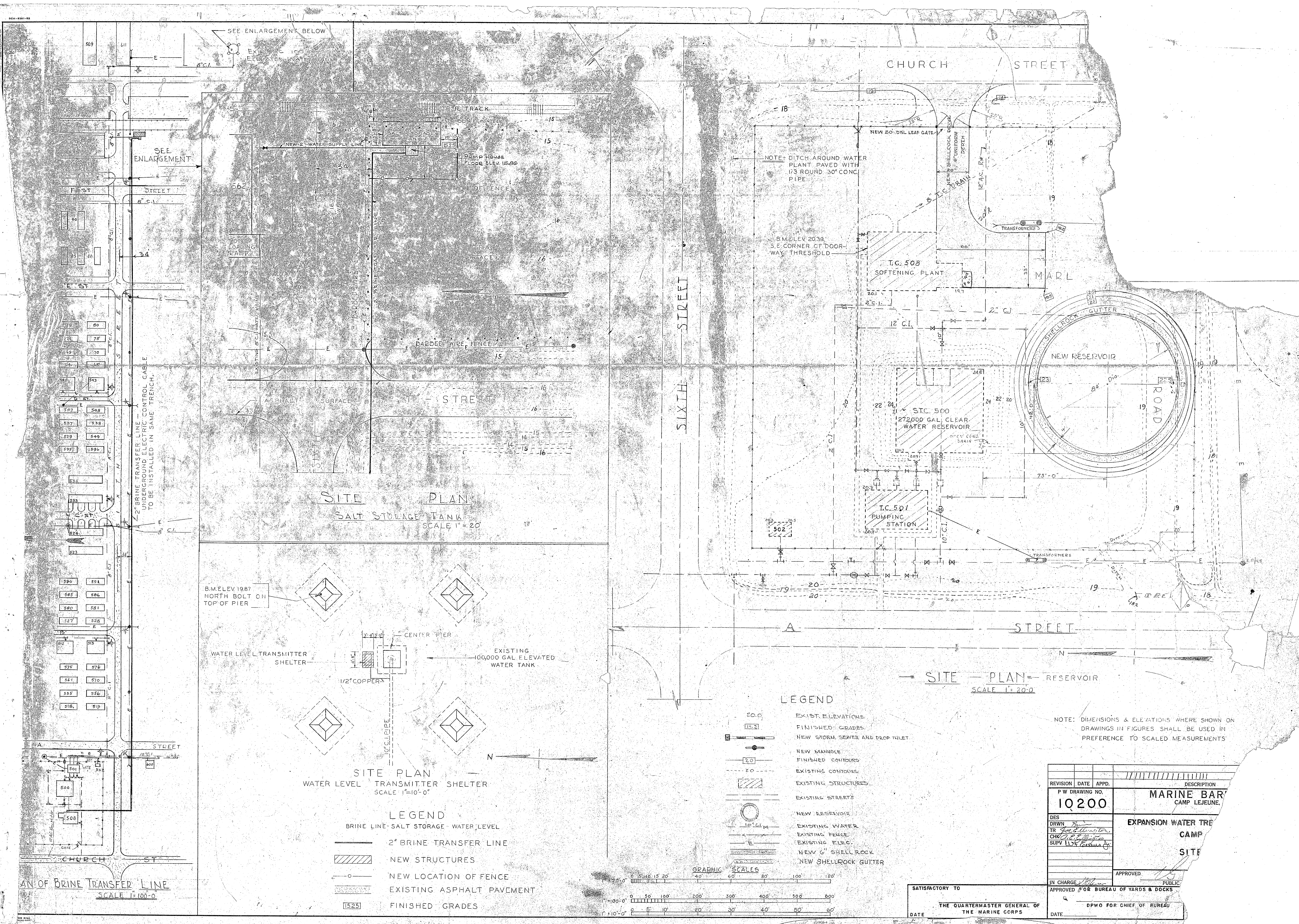
- NEW STORM SEWER
- NEW STANDARD CATCH BASIN
- NEW STANDARD MANHOLE
- EXIST. WATER PIPE
- EXIST. FACILITIES
- EXIST. CONTOURS
- NEW RESERVOIR

NOTE: DIMENSIONS & ELEVATIONS WHERE SHOWN ON DRAWINGS IN FIGURES SHALL BE USED IN PREFERENCE TO SCALED MEASUREMENTS.



REVISION	DATE	APPROVED	DESCRIPTION
P.W. DRAWING NO. 10207			MARINE CORPS - BAS CAMP GEIGER, N.C.
EXPANSION WATER TREATMENT FAC			
CAMP GEIGER			
DRAINAGE OUTFALL SYST.			
PLAN & PROFILE.			
DESIGNED BY	DATE	CHECKED BY	DATE
APPROVED BY BUREAU OF YARDS & DOCKS		PUBLIC WORKS OFFICER	
SCALE GRAPHIC		SPEC. & NOY. 8	
DRAWING NO. 645			





**SITE PLAN
SALT STORAGE TANK
SCALE 1" = 20'**

**SITE PLAN - RESERVOIR
SCALE 1" = 20.0'**

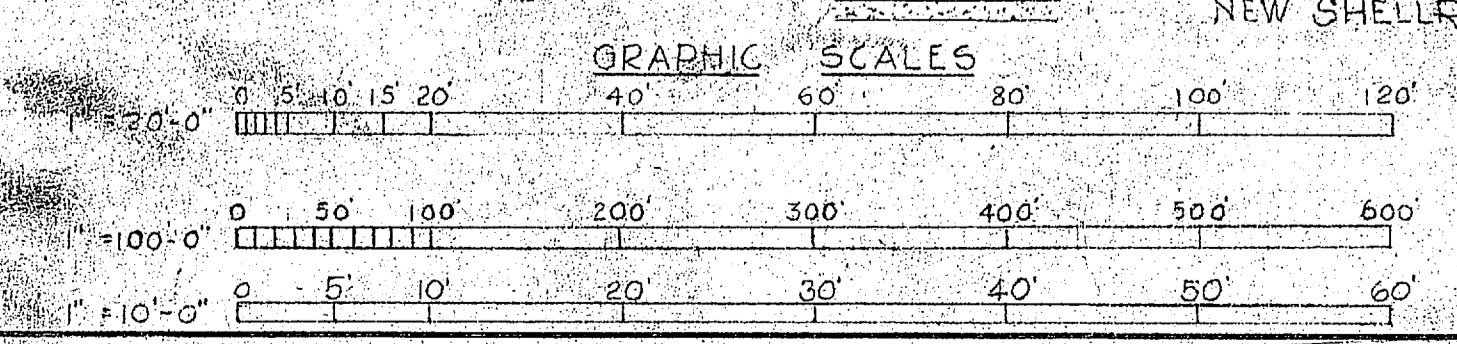
**SITE PLAN
WATER LEVEL TRANSMITTER SHELTER
SCALE 1" = 10'-0"**

**PLAN OF BRINE TRANSFER LINE
SCALE 1" = 100'-0"**

- LEGEND**
- BRINE LINE - SALT STORAGE - WATER LEVEL
 - 2" BRINE TRANSFER LINE
 - ▨ NEW STRUCTURES
 - NEW LOCATION OF FENCE
 - ▨ EXISTING ASPHALT PAVEMENT
 - ▨ FINISHED GRADES

LEGEND

- 20.0 EXIST. ELEVATIONS
- 19.3 FINISHED GRADES
- NEW STORM SEWER AND DROP INLET
- NEW MANHOLE
- FINISHED CONTOURS
- EXISTING CONTOURS
- ▨ EXISTING STRUCTURES
- EXISTING STREETS
- NEW RESERVOIR
- EXISTING WATER
- EXISTING FENCE
- EXISTING ELEC.
- NEW 6" SHELL ROCK
- NEW SHELLROCK GUTTER



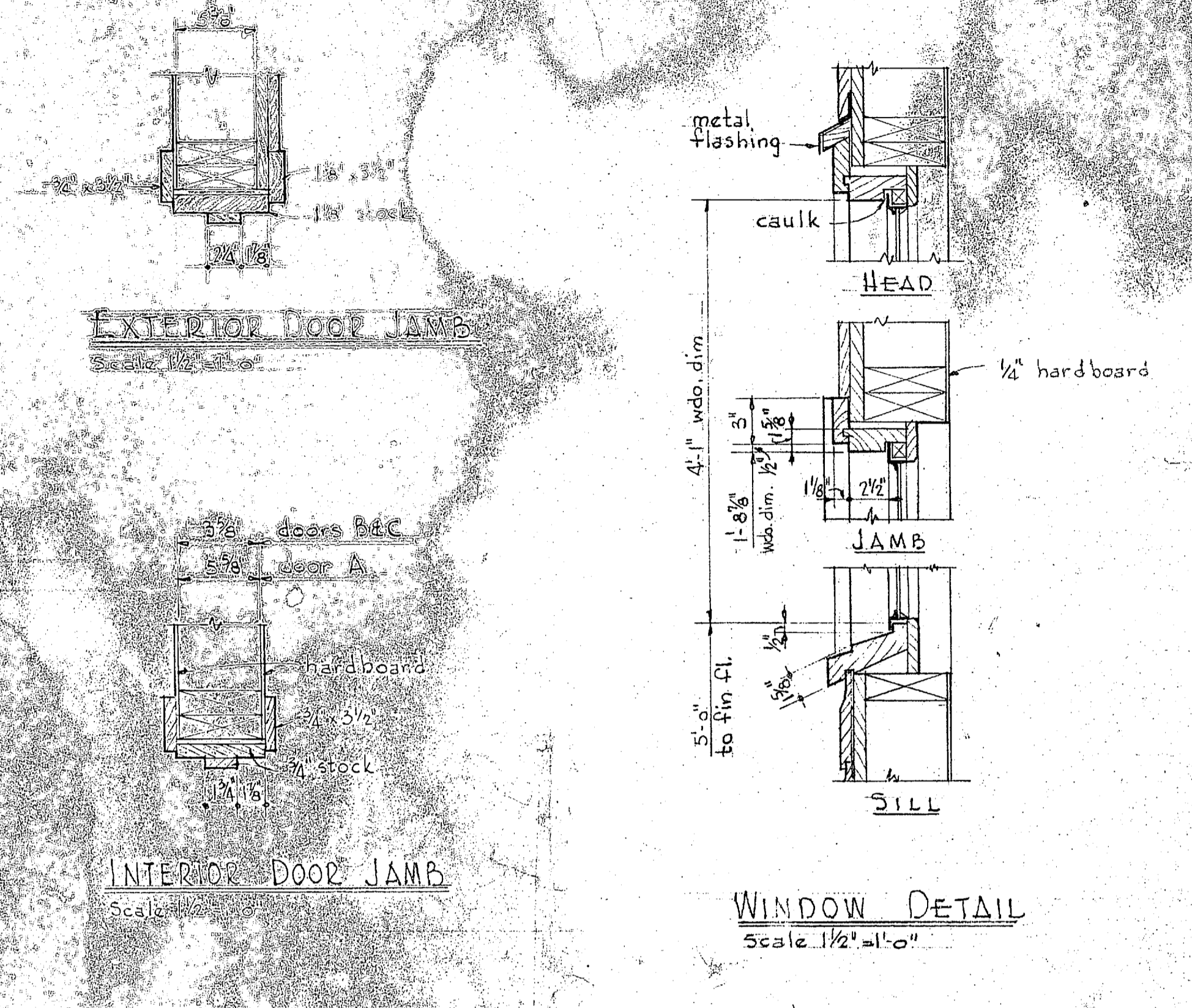
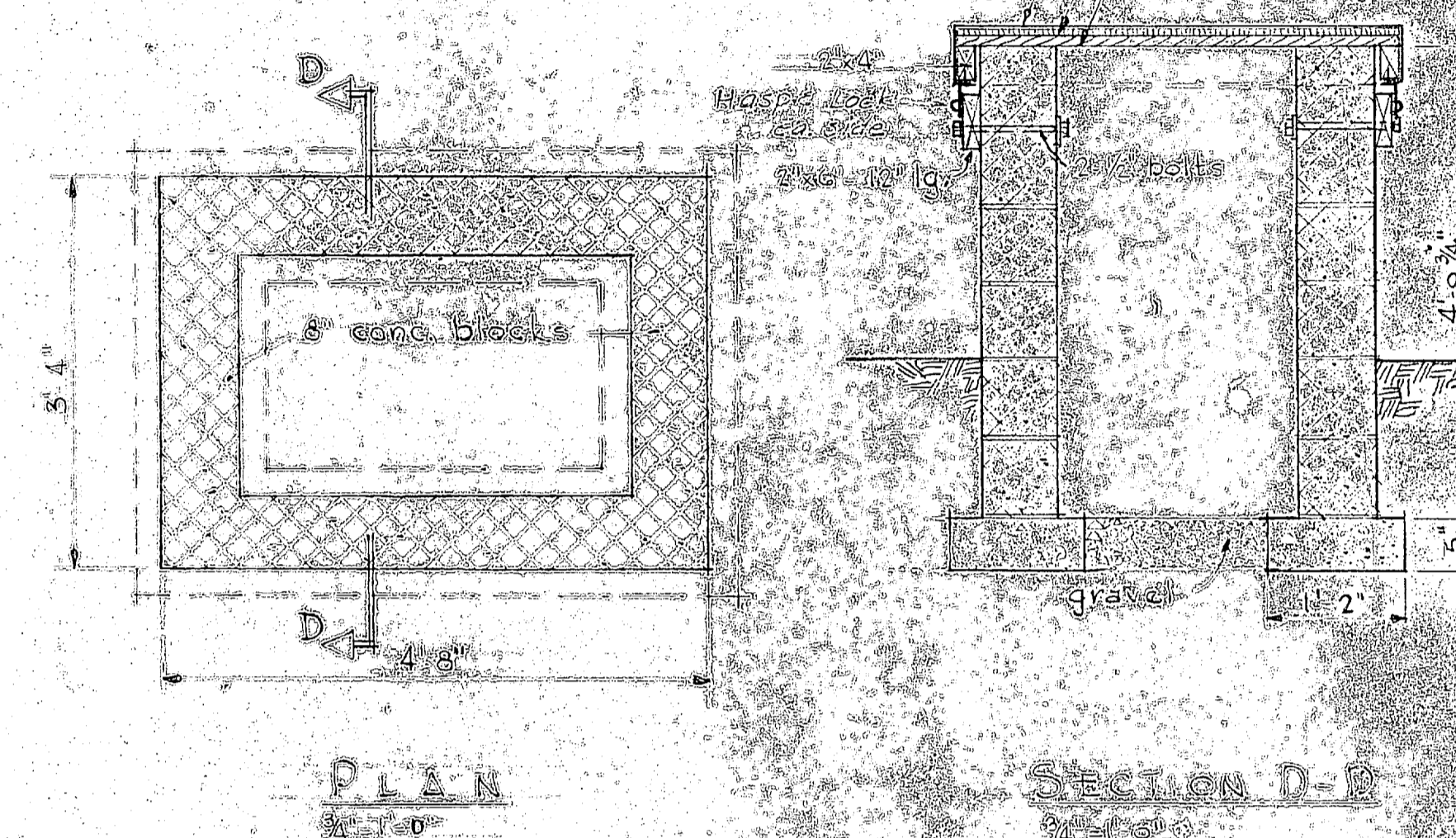
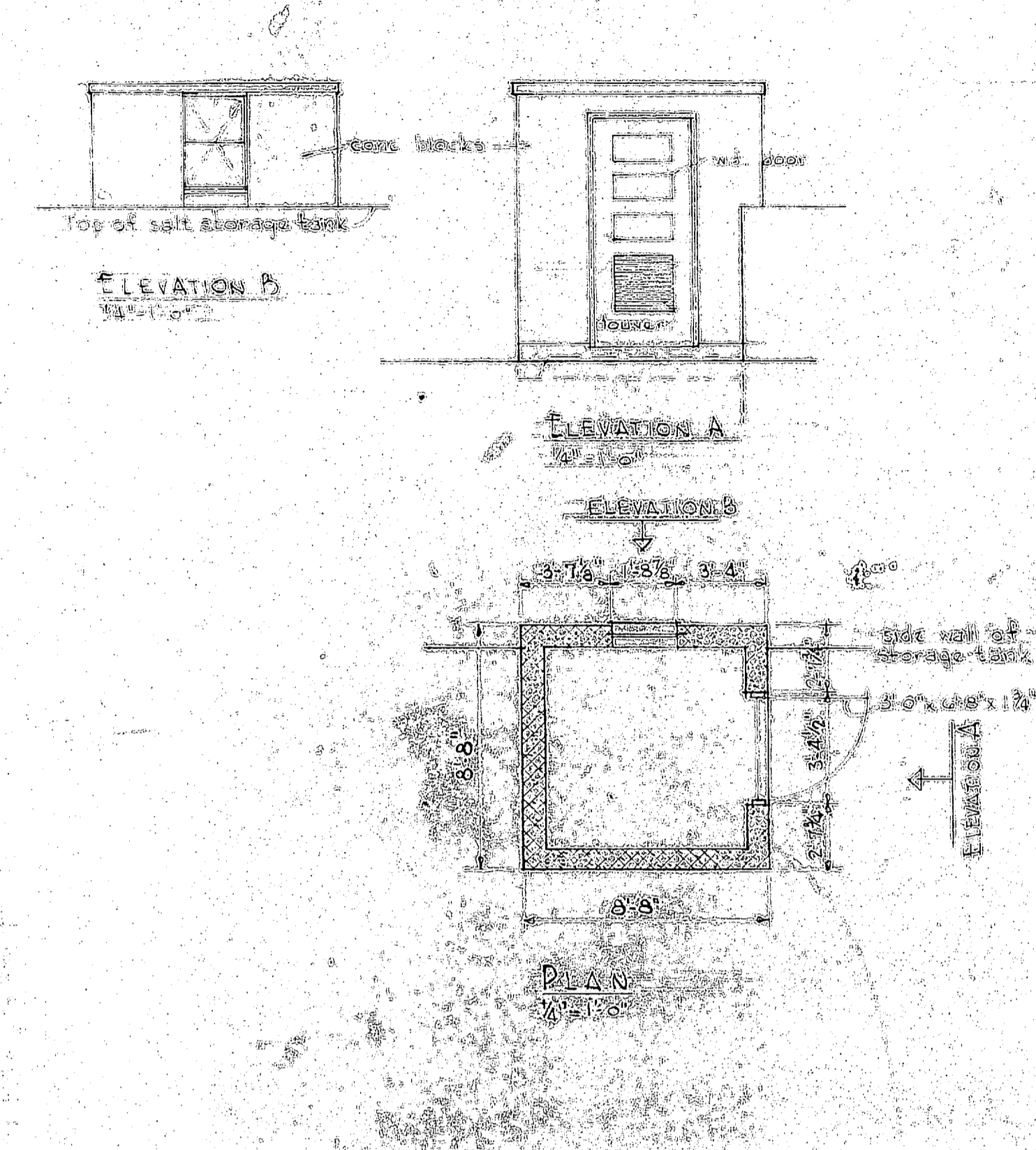
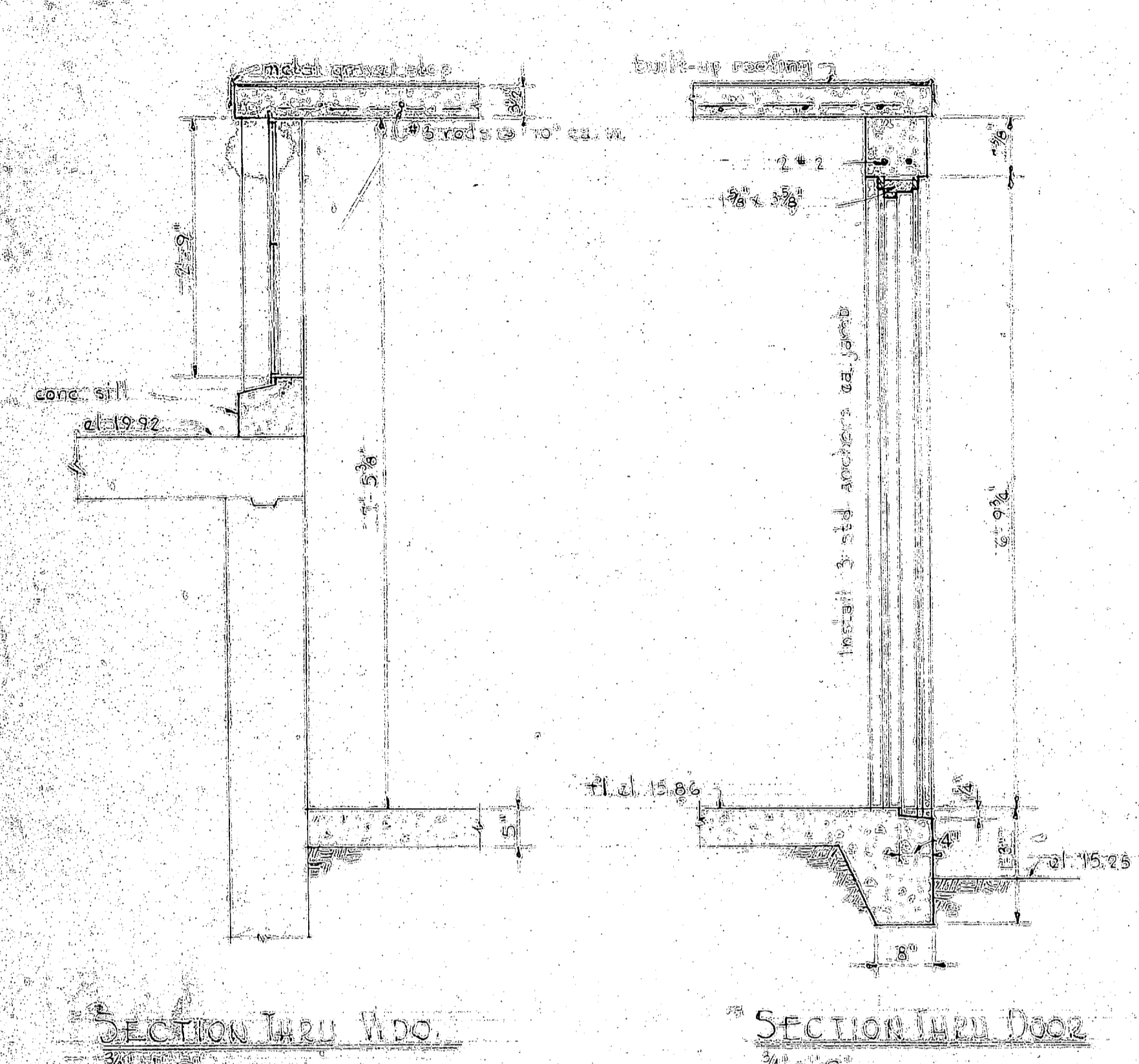
NOTE: DIMENSIONS & ELEVATIONS WHERE SHOWN ON DRAWINGS IN FIGURES SHALL BE USED IN PREFERENCE TO SCALED MEASUREMENTS

REVISION	DATE	APPD.	DESCRIPTION
P.W. DRAWING NO.			MARINE BAR CAMP LEJEUNE
10200			
DES	DRW	TR	EXPANSION WATER TREATMENT CAMP LEJEUNE
CHK	BY	SUPV	
APP	BY	SUPV	

SATISFACTORY TO
THE QUARTERMASTER GENERAL OF THE MARINE CORPS
DATE

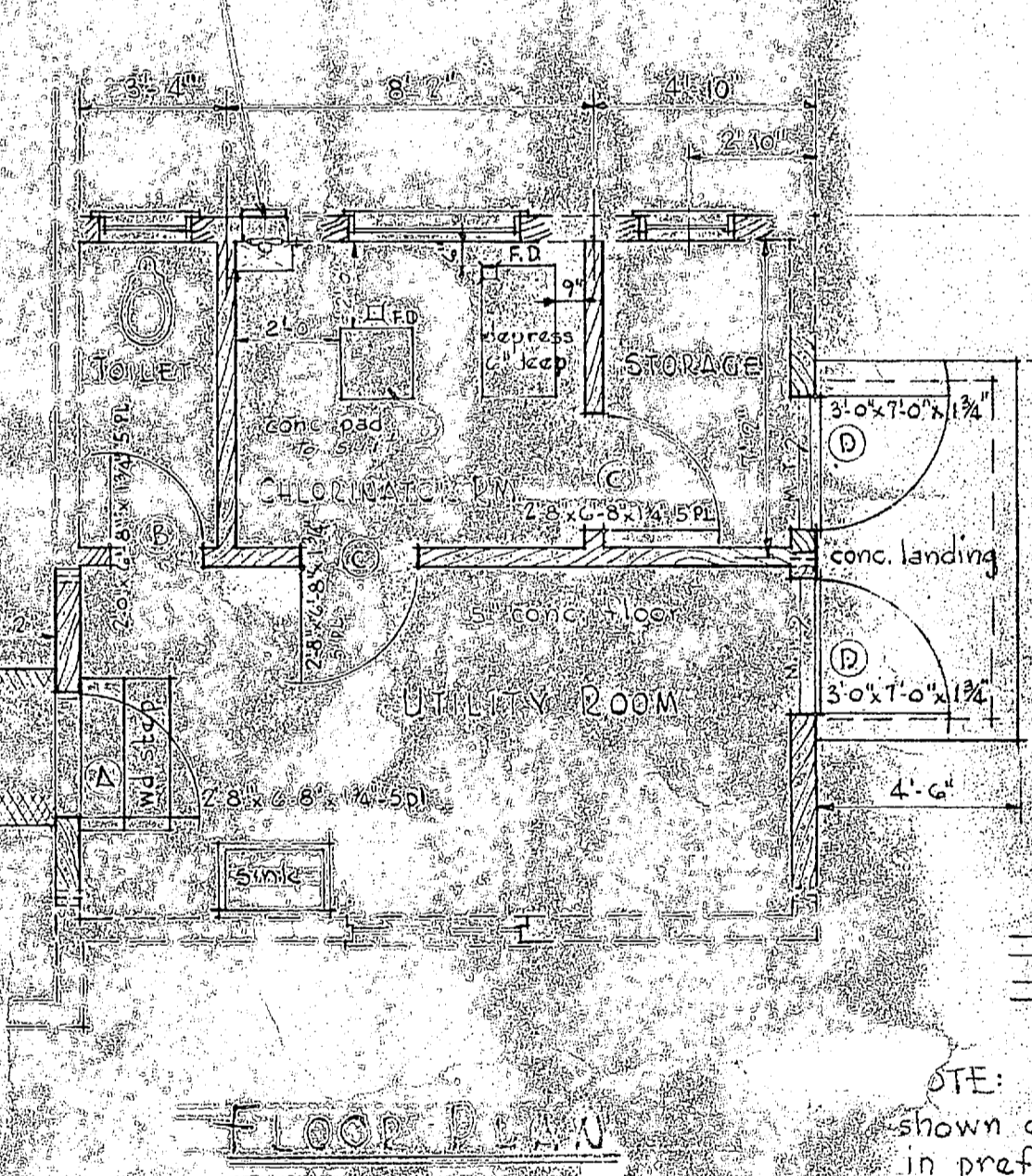
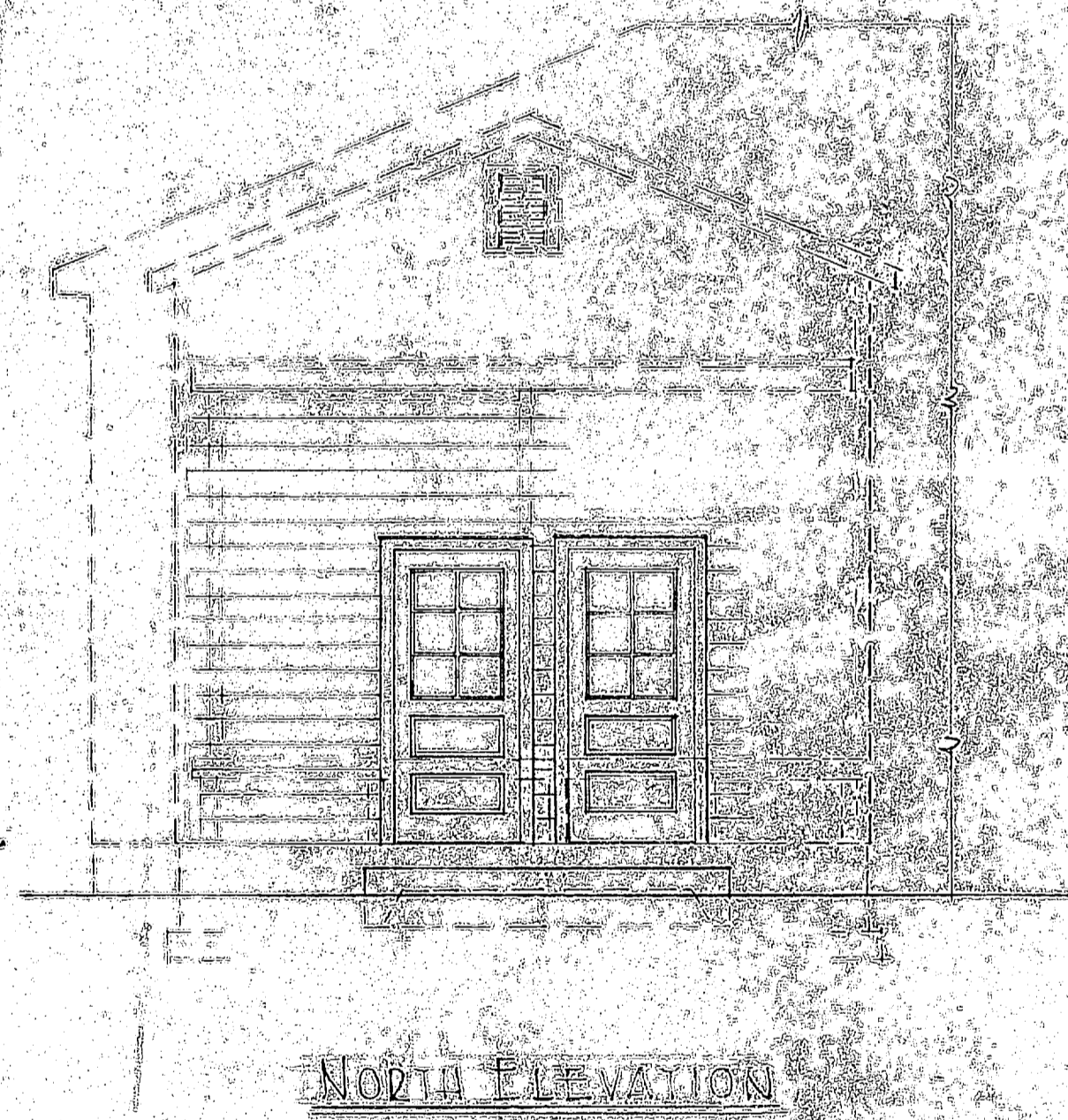
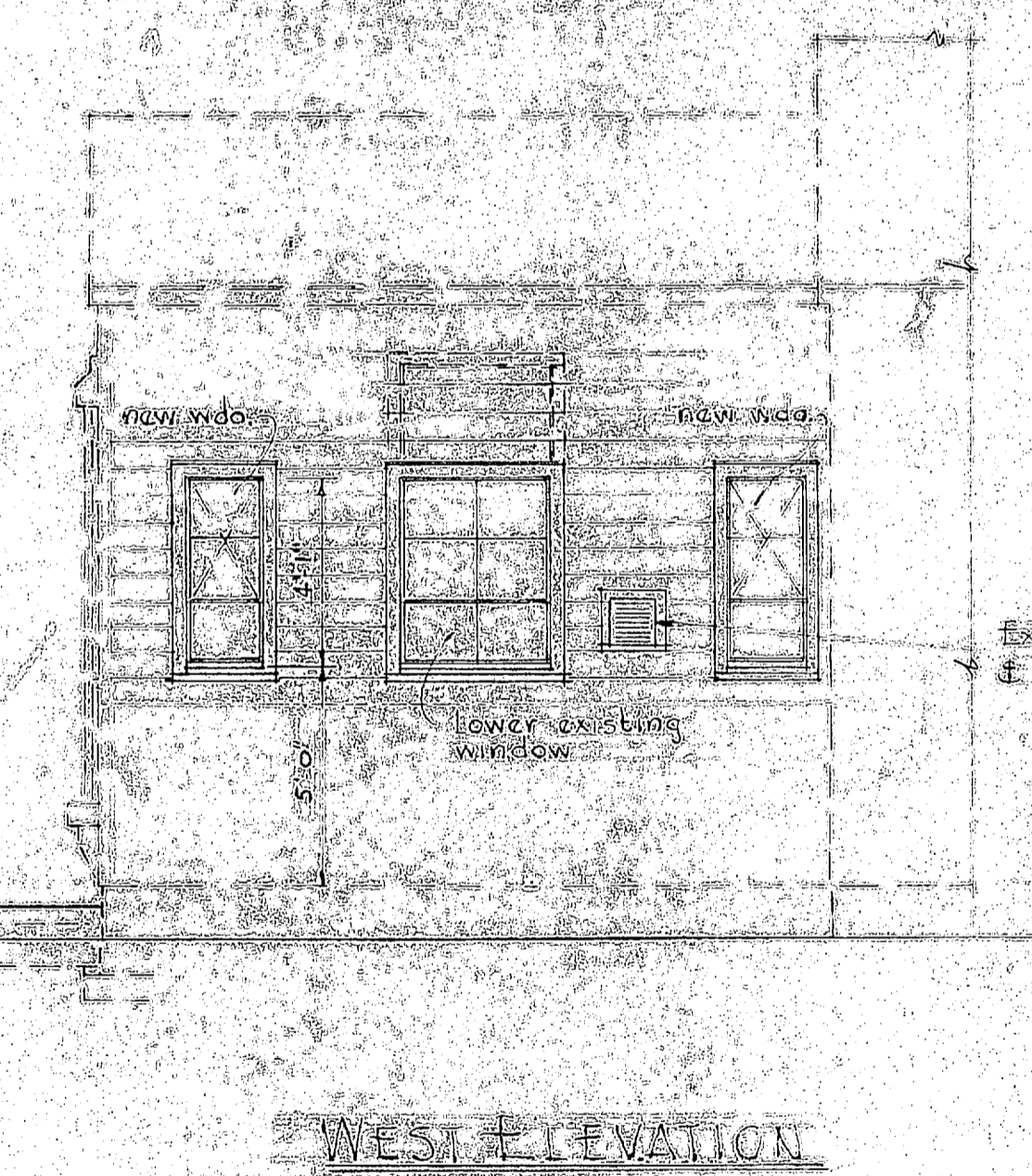
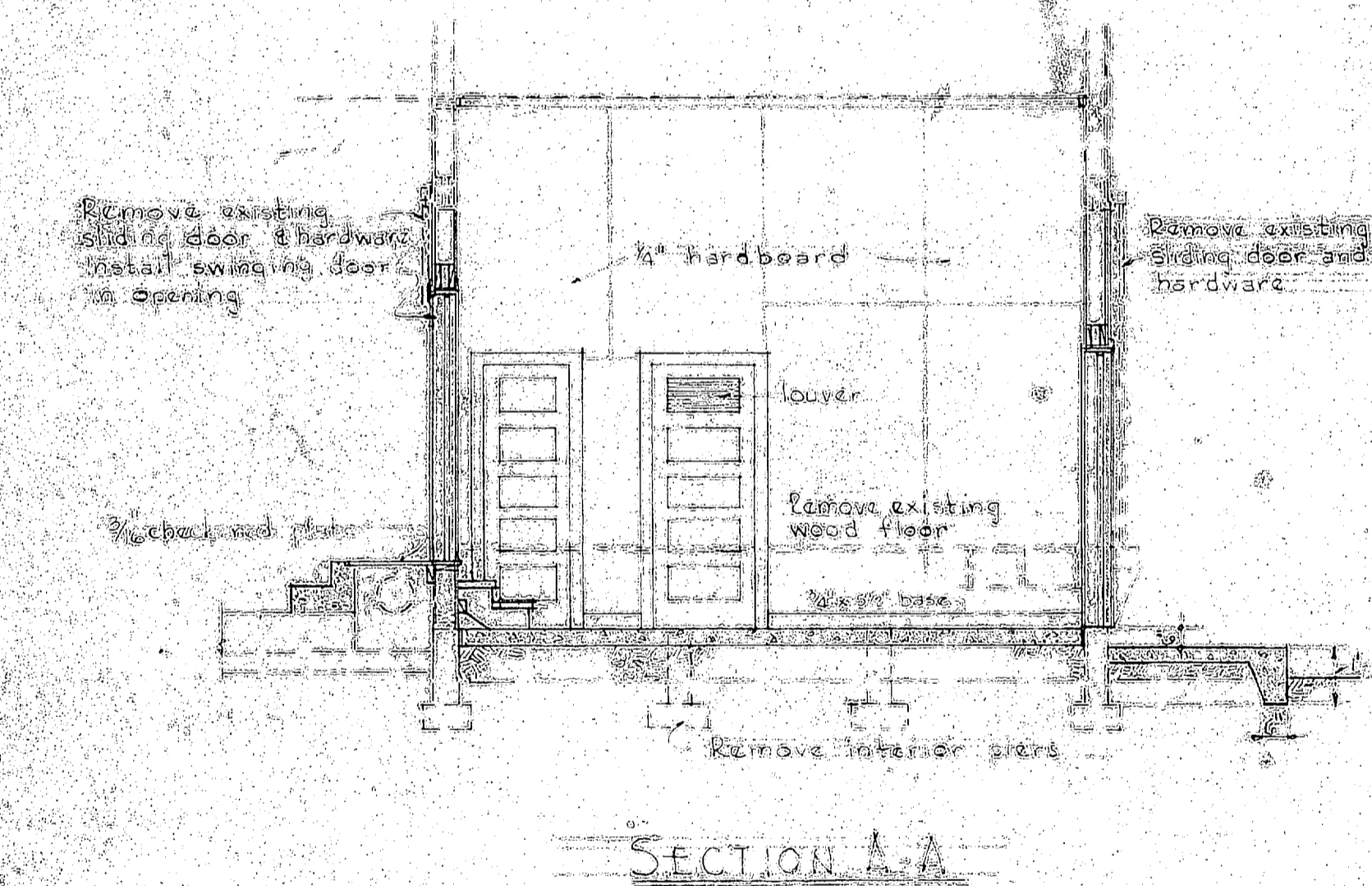
APPROVED FOR BUREAU OF YARDS & DOCKS
DPWO FOR CHIEF OF BUREAU
DATE





PUMP HOUSE AT SALT STORAGE TANK

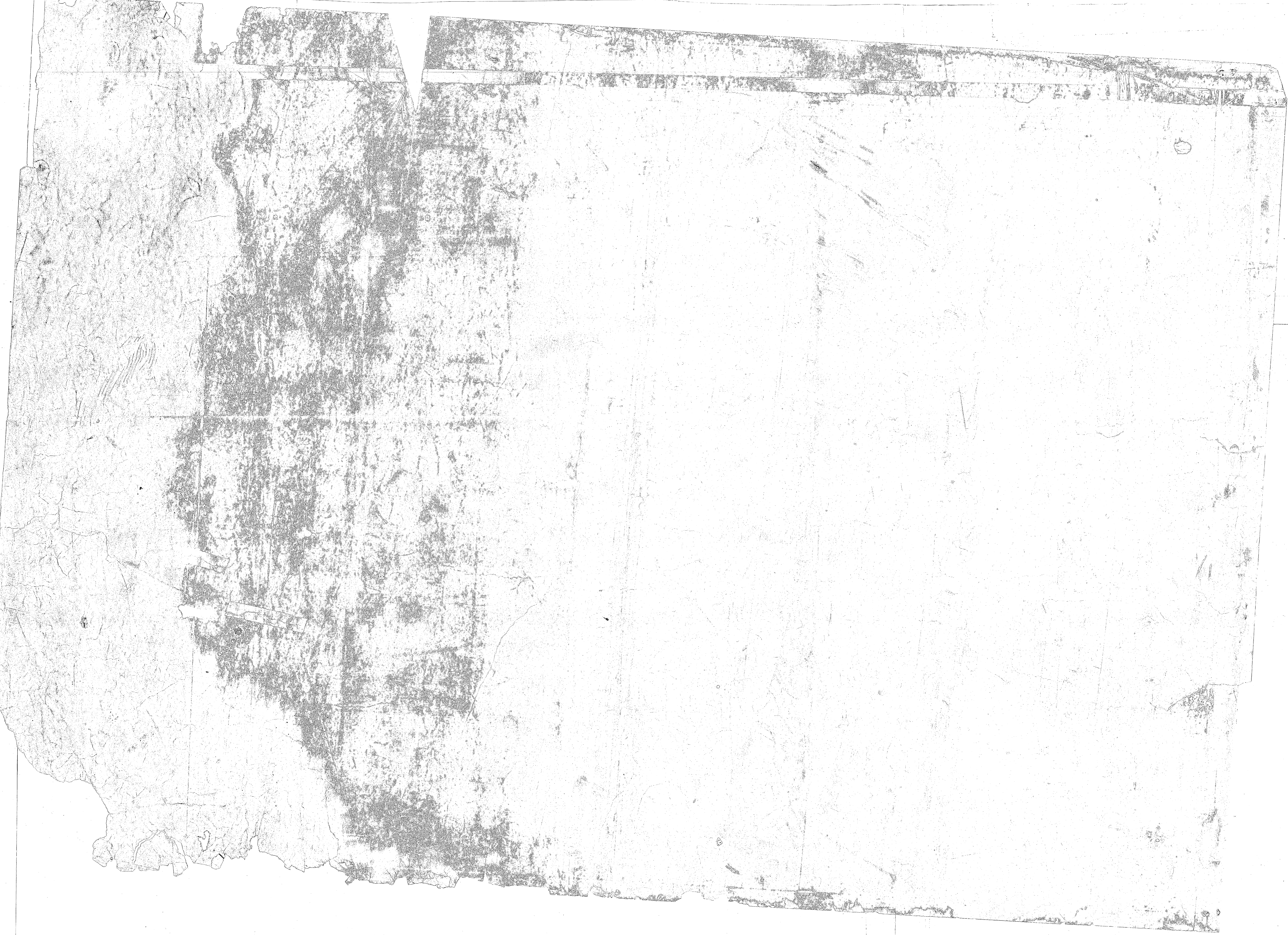
WATER LEVEL TRANSMITTER SHELTER

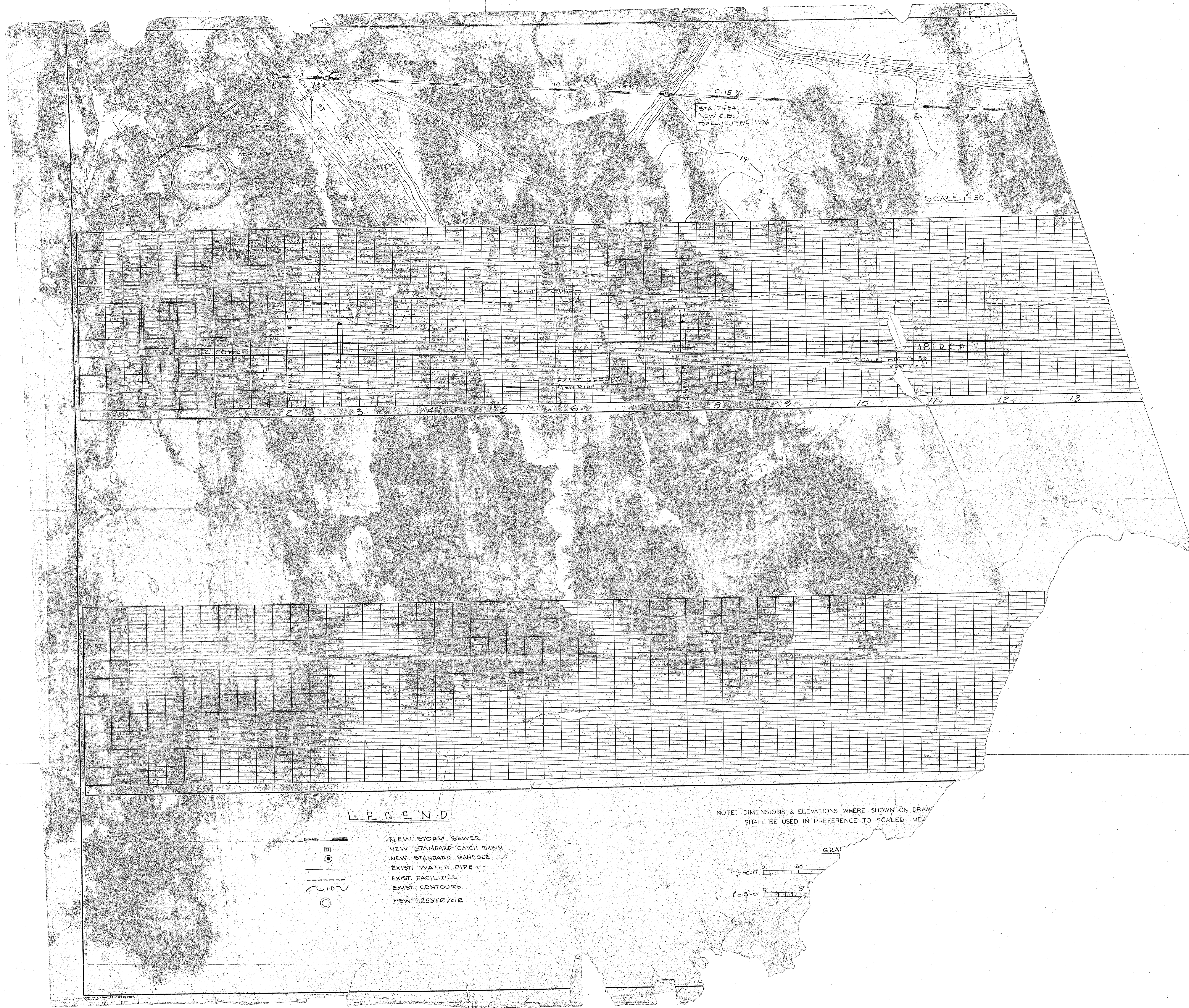


LEGEND
 --- New construction
 --- Existing constr.
 NOTE: Dimensions and elevations where shown on drawings in figures shall be used in preference to scale measurements.

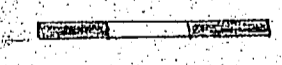








REVISION	DATE	APPD.	DESCRIPTION	BY
P W DRAWING NO. 10203				
MARINE CORPS BASE CAMP LEJUNE, N. C.				
EXPANSION WATER TREATMENT FACILITY CAMP GEIGER				
ALTERATIONS TO PLANS, ELEVATIONS				
APPROVED				
IN CHARGE				
APPROVED FOR BUREAU OF YARDS & DOCKS				
DPWO CHIEF OF BUREAU				
SATISFACTORY TO				
THE QUARTERMASTER GENERAL OF THE MARINE				
DATE				

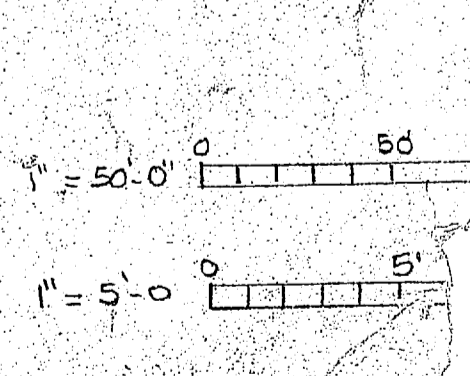




LEGEND

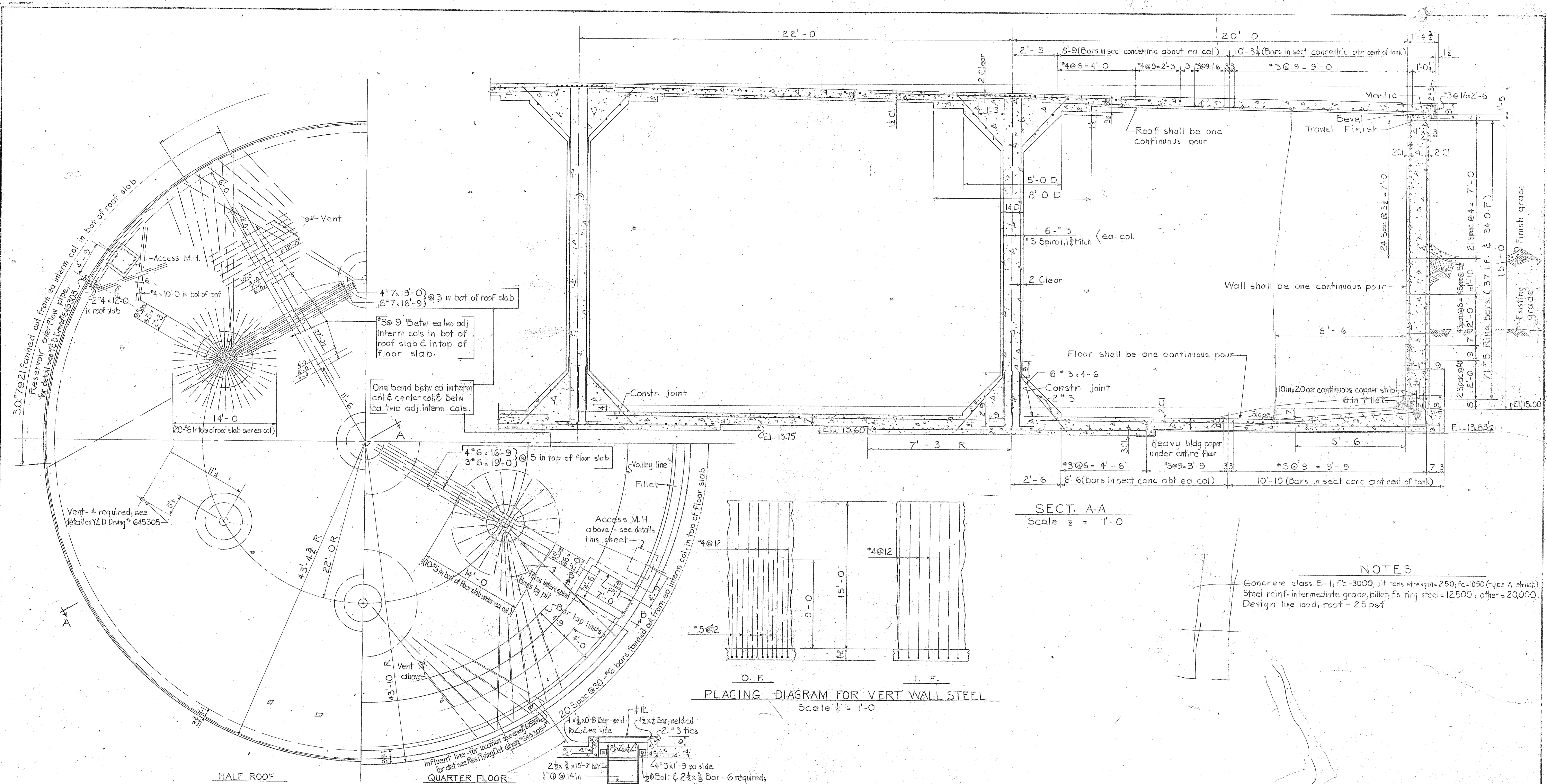
-  NEW STORM SEWER
-  NEW STANDARD CATCH BASIN
-  NEW STANDARD MANHOLE
-  EXIST. WATER PIPE
-  EXIST. FACILITIES
-  EXIST. CONTOURS
-  NEW RESERVOIR

NOTE: DIMENSIONS & ELEVATIONS WHERE SHOWN ON DRAW SHALL BE USED IN PREFERENCE TO SCALED MEASUREMENTS.

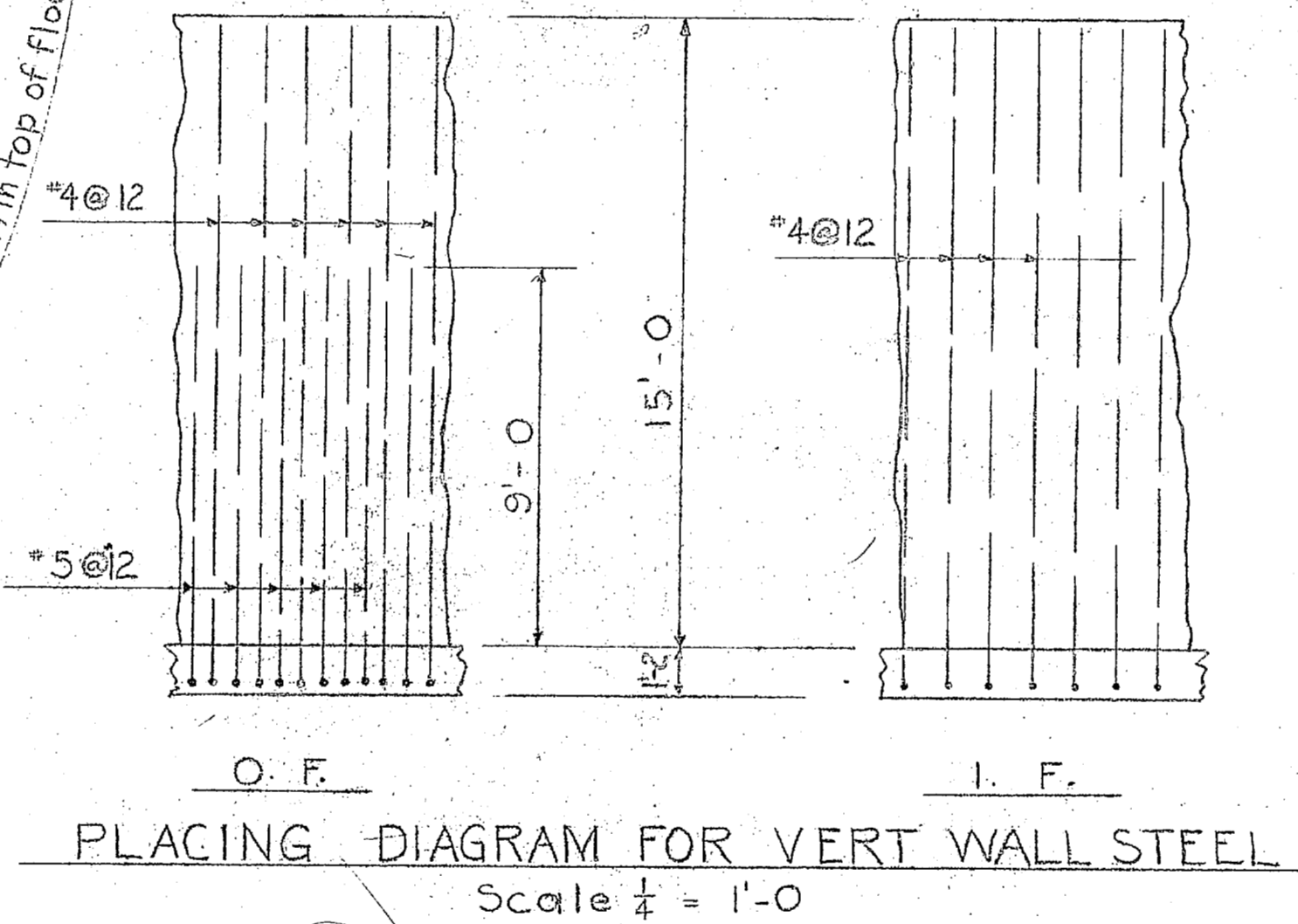


GRA



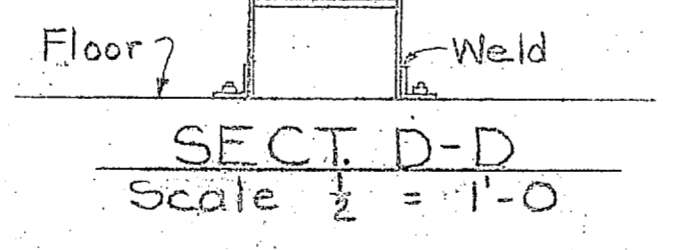


PLAN
Scale 1/8" = 1'-0"

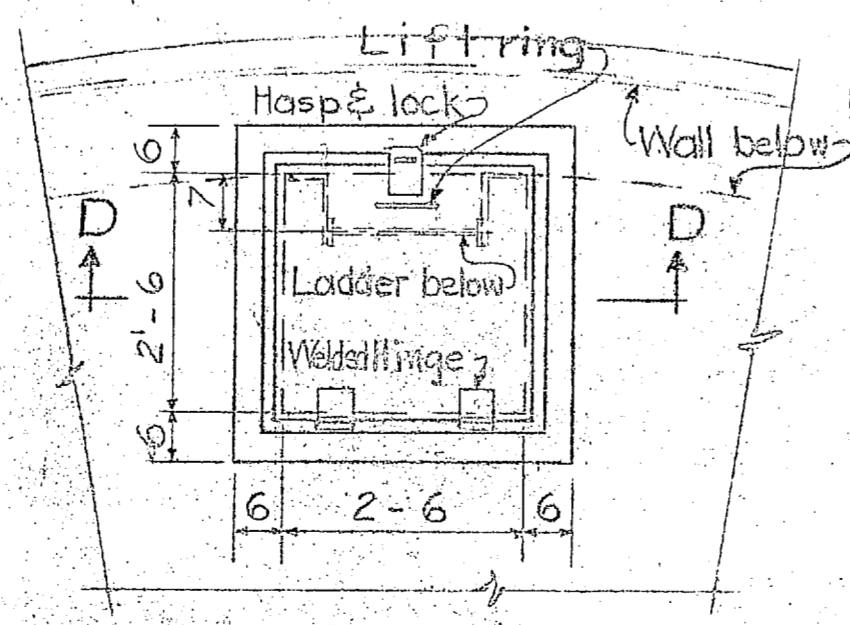


PLACING DIAGRAM FOR VERT WALL STEEL
Scale 1/4" = 1'-0"

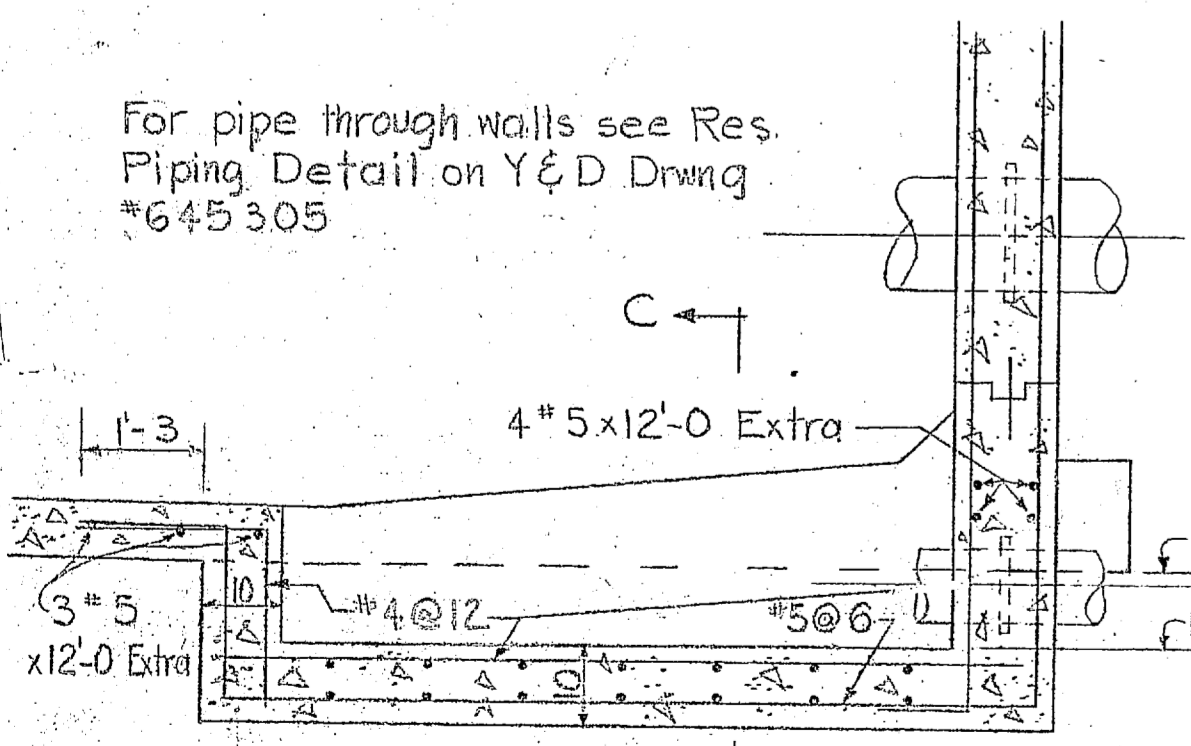
SECT. A-A
Scale 1/2" = 1'-0"



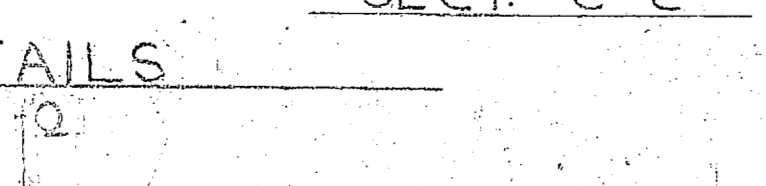
SECT. D-D
Scale 1/2" = 1'-0"



ACCESS M.H. DETAILS
(2 REQUIRED)
Scale 1/2" = 1'-0"



SECT. B-B

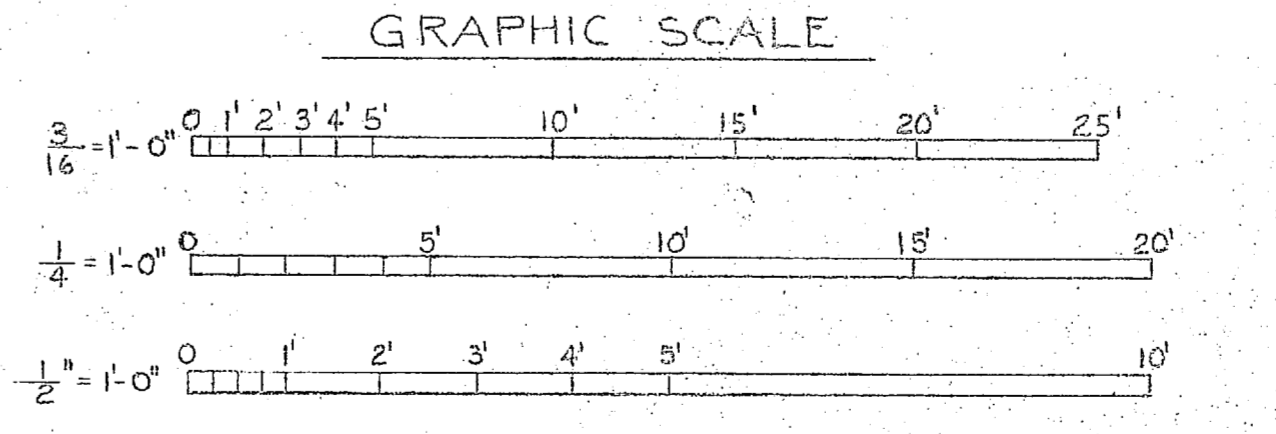


SECT. C-C

PIT DETAILS
Scale 1/2" = 1'-0"

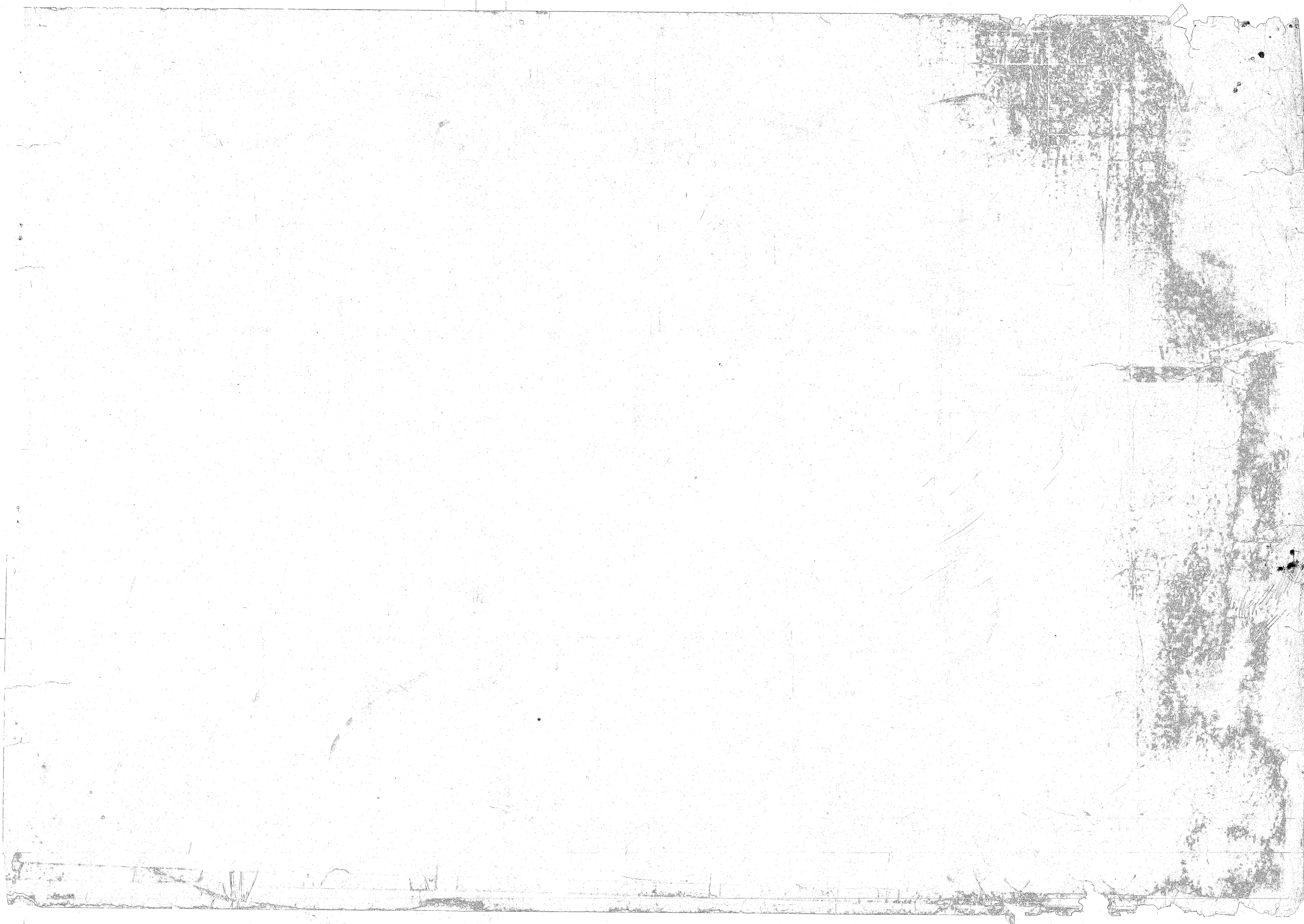
NOTES
Concrete class E-1; f'c = 3000; ult tens strength = 250; fc = 1050 (type A struct)
Steel reinf: intermediate grade, pile; fs ring steel = 12500, other = 20,000.
Design live load, roof = 25 psf

NOTE
DIMENSIONS AND ELEVATIONS WHERE SHOWN ON DRAWINGS IN FIGURES SHALL BE USED IN PREFERENCE TO SCALED MEASUREMENTS.



REVISION	DATE	APPD.	DESCRIPTION	BY
10201			MARINE CORPS BASE CAMP LEJEUNE, N. C.	
EXPANSION WATER TREATMENT FACILITIES CAMP GEIGER 600,000 GALLON RESERVOIR STRUCTURAL PLAN AND DETAILS.				
APPROVED			DATE	
PUBLIC WORKS OFFICER			7 May 57	
APPROVED FOR BUREAU OF YARDS & DOCKS			SCALE GRAPHIC SPEC 41819	
DATE			OPWD FOR CHIEF OF BUREAU	SHEET 3 OF 9
THE QUARTERMASTER GENERAL OF THE MARINE CORPS			DATE	NOV 62 255
			Y & D DRAWING NO. 645301	

For pipe through walls see Res. Piping Detail on Y & D Drawing #645305





SITE PLAN
SALT TANK
SCALE 1"=20'

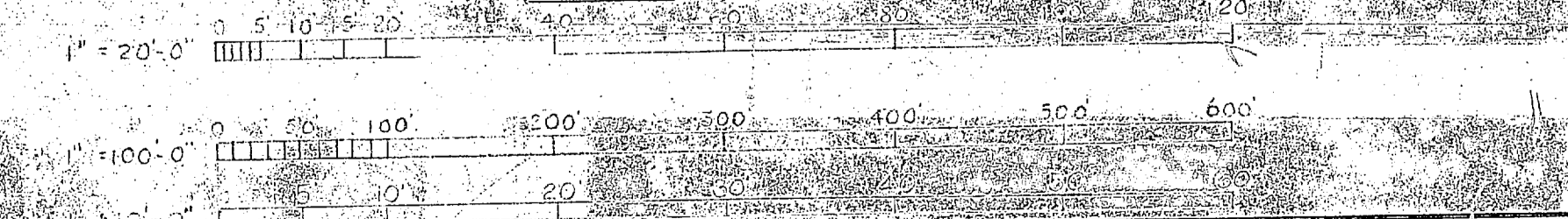
SITE PLAN
WATER LEVEL TRANSMITTER SHELTER
SCALE 1"=10'-0"

LEGEND

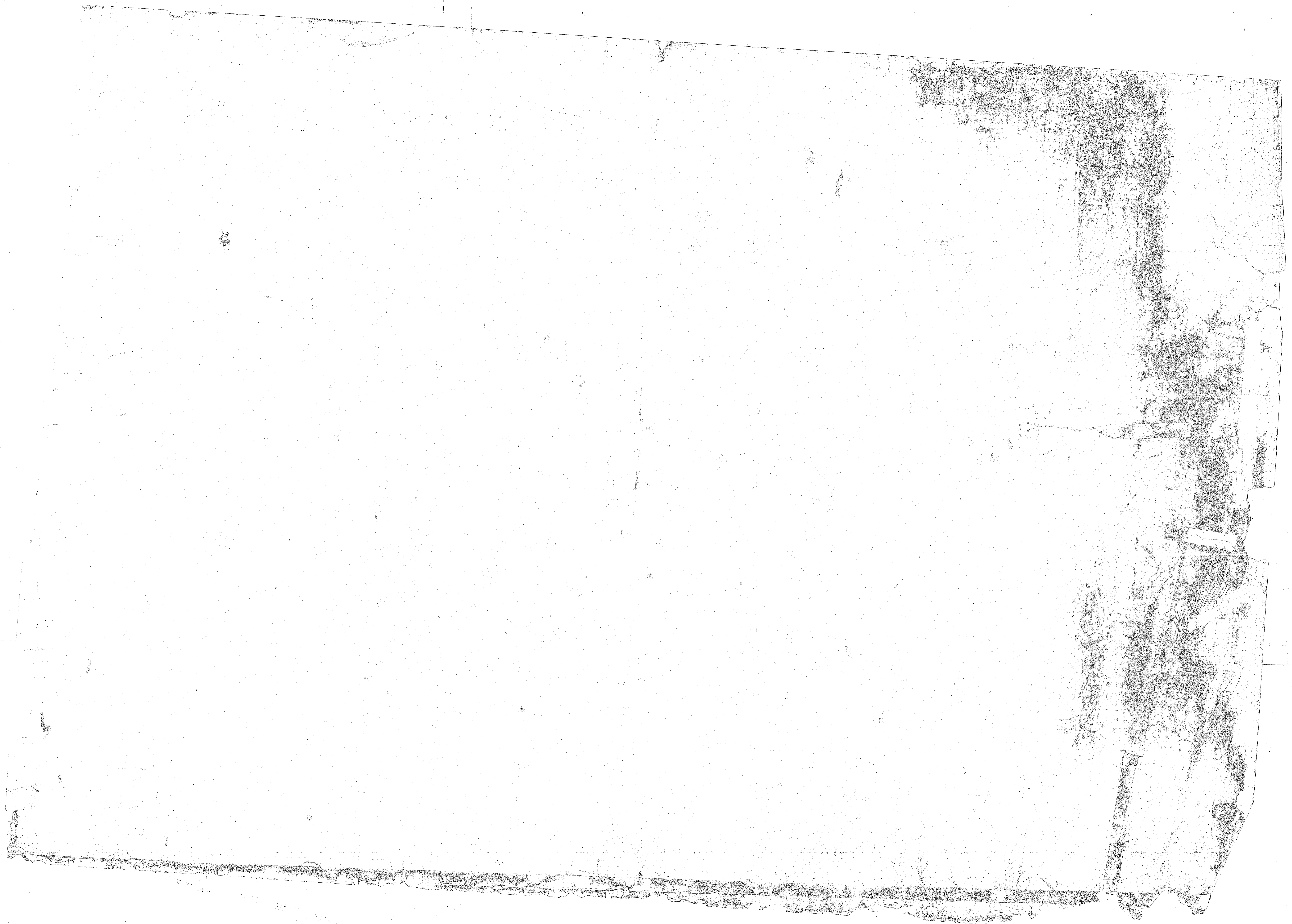
- EXISTING STRUCTURE
- FINISHED AREA
- NEW MAINLINE PIPE
- EXISTING PIPE
- NEW STRUCTURE
- EXISTING STRUCTURE
- NEW STRUCTURE
- NEW STRUCTURE
- NEW STRUCTURE
- NEW STRUCTURE

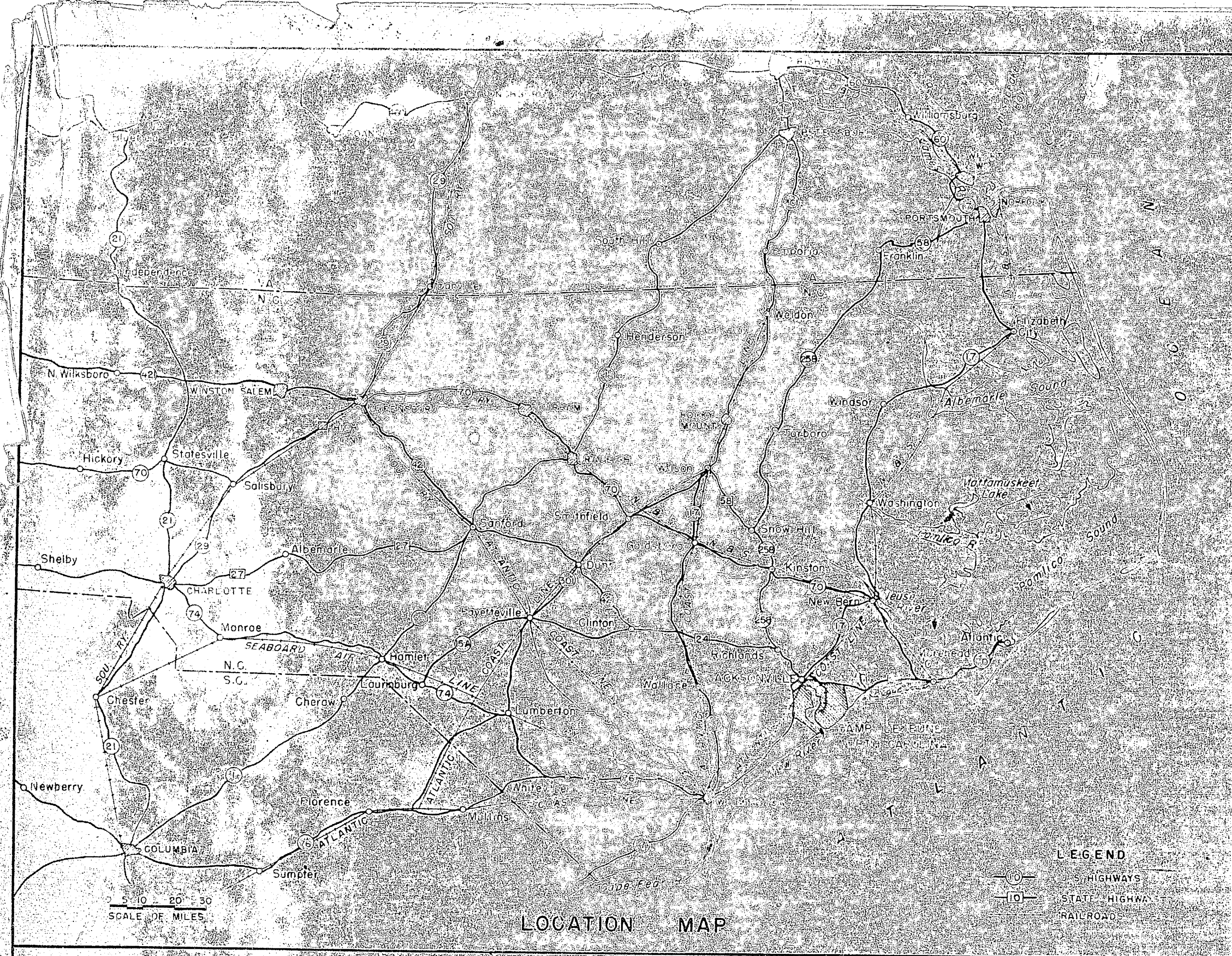
NOTE: DIMENSIONS & ELEVATIONS WHERE SHOWN ON DRAWINGS IN FIGURES SHALL BE USED IN PREFERENCE TO SCALED MEASUREMENTS.

REVISION	DATE	APPD.	DESCRIPTION	BY
P.W. DRAWING NO. 10200				
MARINE BARRACKS CAMP LEJEUNE, N. C.				
EXPANSION WATER TREATMENT FACILITIES CAMP GEIGER				
SITE PLANS				
APPROVED			DATE	
IN CHARGE			PUBLIC WORKS OFFICER	
APPROVED FOR BUREAU OF YARDS & DOCKS			SCALE GRAPHIC SPEC 41919	
DATE			SHEET 2 OF 9 No. 83255	
THE QUARTERMASTER GENERAL OF THE MARINE CORPS			DPWO FOR CHIEF OF BUREAU	
DATE			Y & D DRAWING NO. 645300	



SATISFACTORY TO
THE QUARTERMASTER GENERAL OF
THE MARINE CORPS

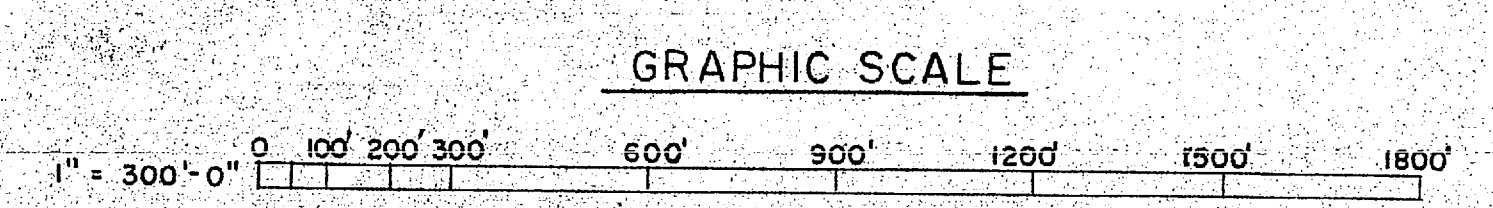
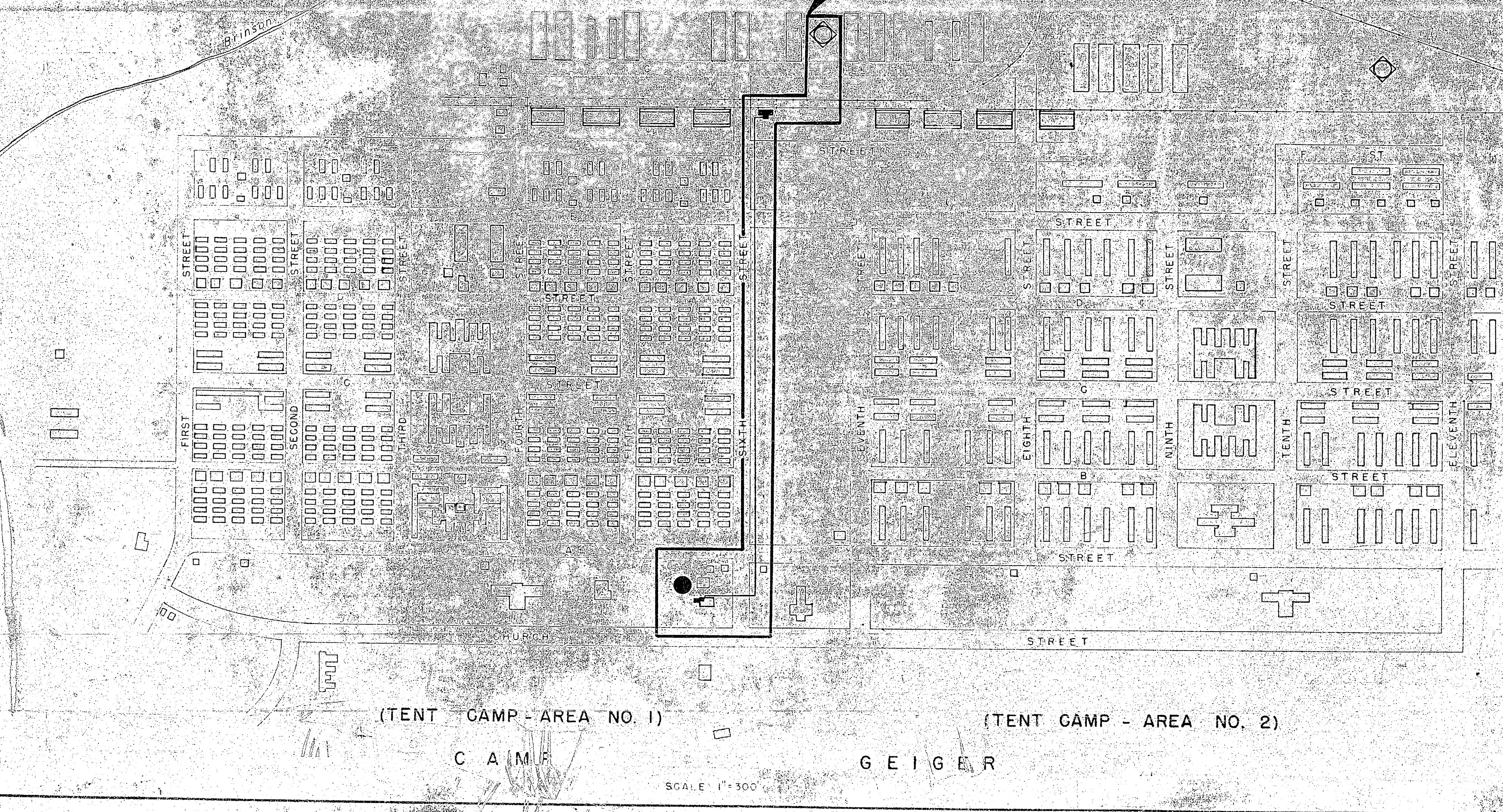




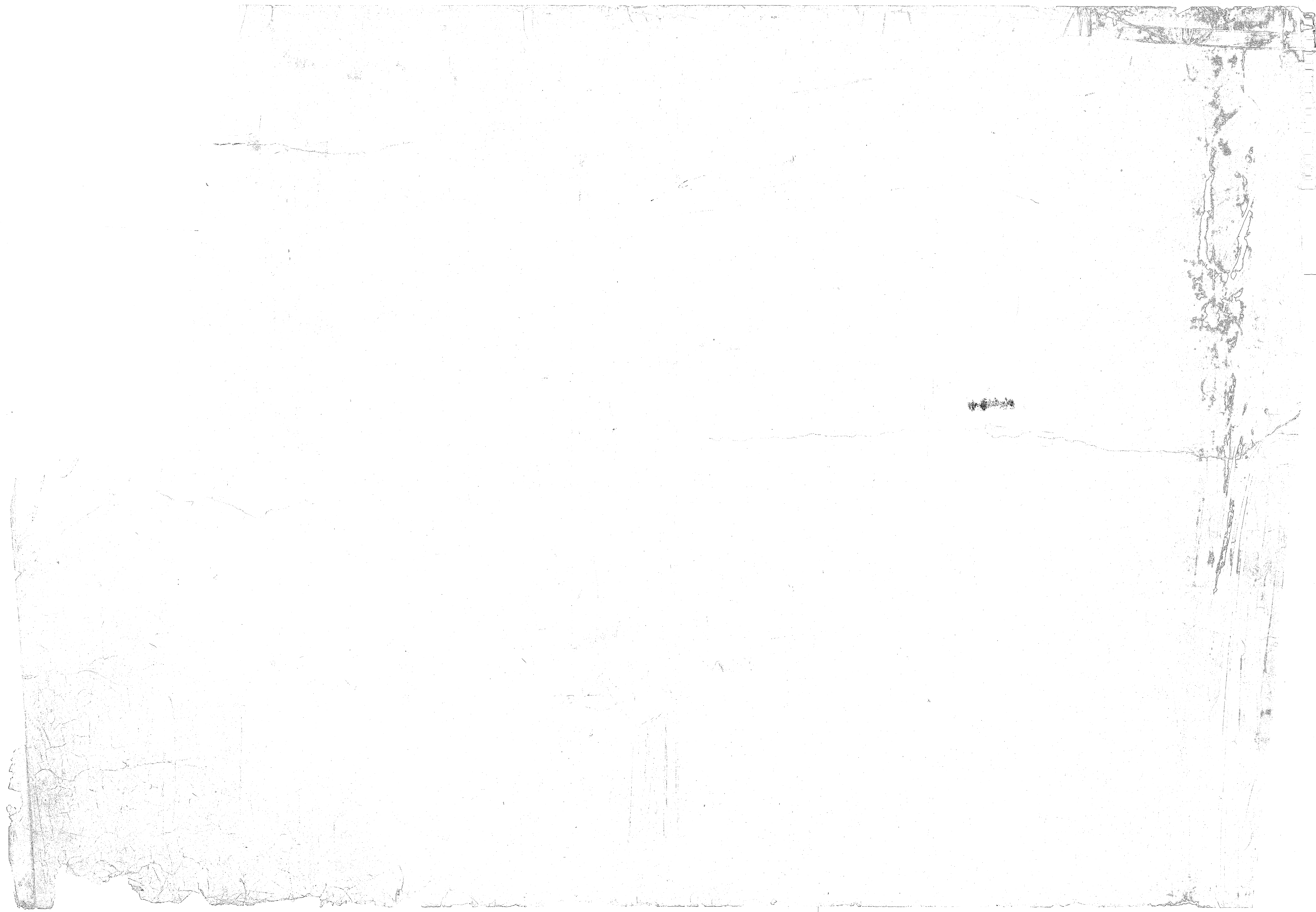
CONTRACT NO. 83255
SPECIFICATION NO. 41919

INDEX OF TITLE

INDEX
SITE PLAN
600,000 GALS. LOM
PLAN AND LOM
SALT STORAGE
MECHANICAL
ALTERATIONS
ELEVATIONS
ELECTRICAL
MISCELLANEOUS
YARD PIPING AND
PLANS AND DETAILS
DRAINAGE OUTFALL SYS.



REVISION	DATE	APPD.	DESCRIPTION
			MARINE BARRACKS CAMP LEJEUNE, N. C.
P.W. DRAWING NO. 10199			EXPANSION WATER TREATMENT FACILITY CAMP GEIGER
INDEX			
DESIGNED BY	DRAWN BY		DATE 7/1/54
CHECKED BY	APPROVED BY		
SUPV. LISTED	PUBLIC WORKS OFFICER		
SATISFACTORY TO			DATE
THE QUARTERMASTER GENERAL OF THE MARINE CORPS			DPWG. CHIEF OF BUREAU



CHURCH ST

SIXTH ST

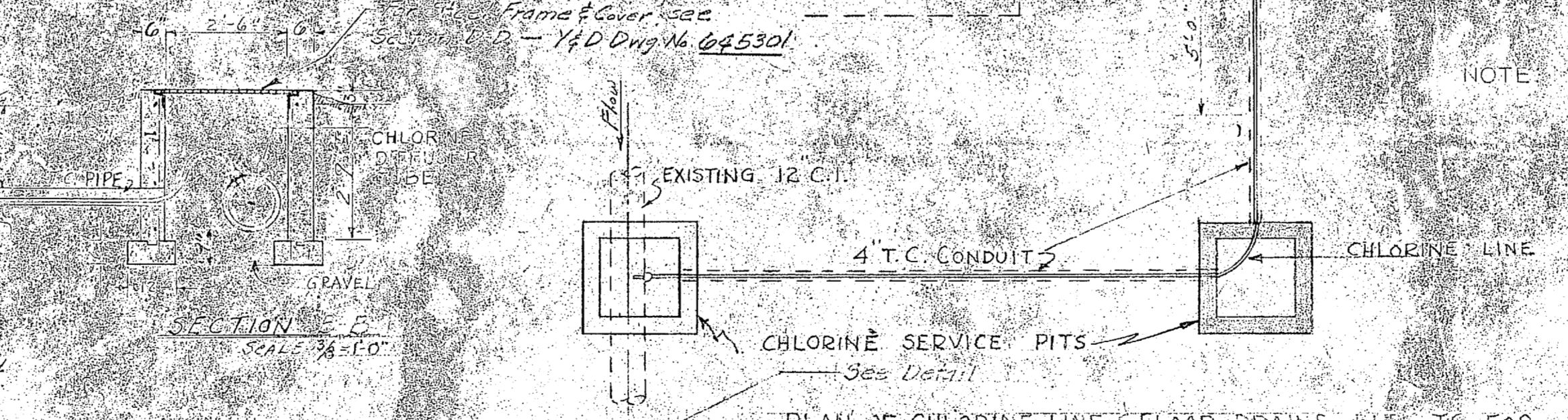
STREET

- LEGEND**
- EXISTING BUILDINGS OR STRUCTURES
 - EXISTING ASPHALT PAVEMENT
 - NEW CONC. PIPE - STORM SEWERS
 - NEW STANDARD CATCH BASINS & MANHOLES
 - NEW RED END CONC. PIPE SECTS.
 - EXISTING PIPE HEADWALLS
 - NEW WATER LINE & VALVE
 - EXISTING WATER LINE & VALVE
 - NEW SAN SEWER LINE
 - EXISTING WATER METER

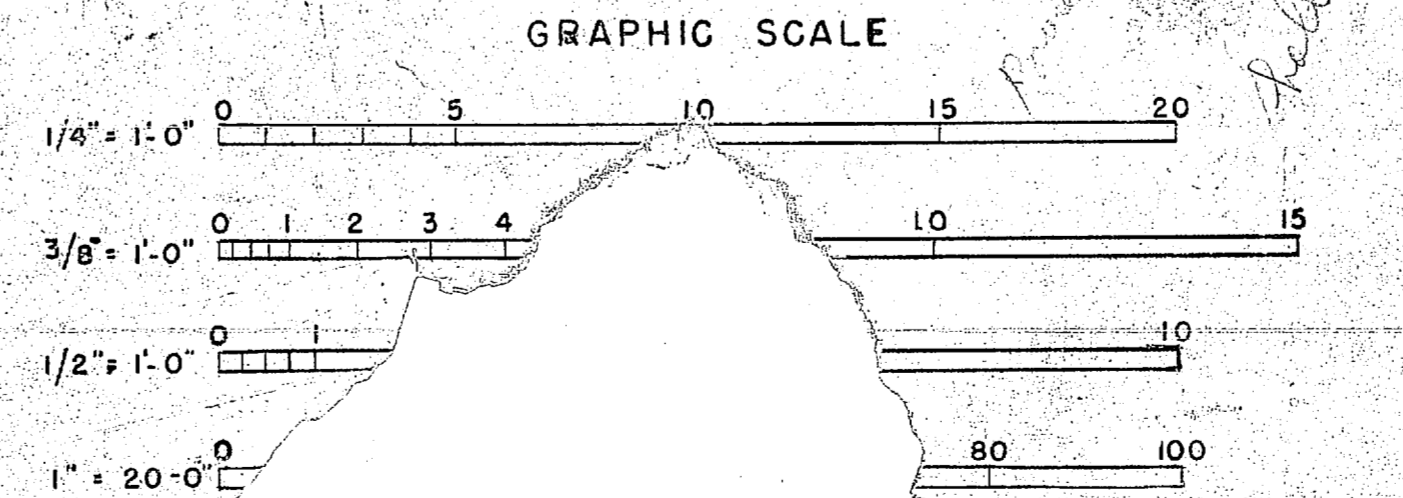
YARD PIPING PLAN

SCALE 1" = 20' 0"

Note:
Install 3/4" Coprastic in 12" C.I. 8" dia. vent
outside reservoir wall. Bring 3/4" line
above finished grade with 3/4" hose bib.



PLAN OF CHLORINE LINE & FLOOR DRAINS PLUG TO 508
SCALE 1/4" = 1'-0"



GRAPHIC SCALE

PLAN OF CHLORINE SERVICE PIT
SCALE 3/4" = 1'-0"

SECTIONS SHOWING TYPICAL WALL CONSTRUCTION

SECTION OF TYPICAL R.I.P. WALL
SCALE 1/4" = 1'-0"

TYPICAL SECTION ON JOINT IN PAVEMENT
SCALE 1/4" = 1'-0"

LOCAL DETAIL
SCALE 1/4" = 1'-0"

NOTE: DIMENSIONS & ELEVATIONS WHERE SHOWN ON DRAWINGS IN FIGURES SHALL BE USED IN PREFERENCE TO SCALE MEASUREMENTS.

REVISION	DATE	APPD.
1	6-10-54	J.M.
P.W. DRAWING NO.		
10206		
DES.	A.P. Woodward	
DRWN.	BAIN	
TR.	BAIN	
CHK.	A.P. Woodward	
SUPV.	L.S.	
IN CHARGE		

SATISFACTORY TO
THE QUARTERMASTER GENERAL OF
THE MARINE CORPS
DATE

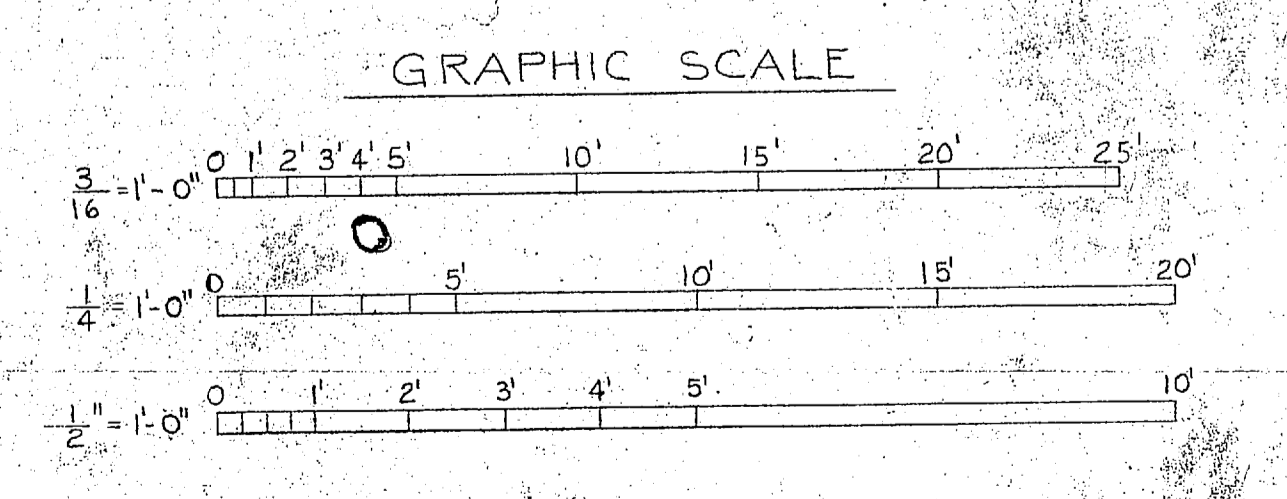
APPROVED
DATE





NOTE

DIMENSIONS AND ELEVATIONS WHERE SHOWN ON DRAWINGS IN FIGURES SHALL BE USED IN PREFERENCE TO SCALED MEASUREMENTS.



REVISION	DATE	APPD.
10	20	

P.W. DRAWING NO. 10 20

DES. C. J. Prosser
DRAWING A. Prosser
TRC. J. Prosser
CHK. A. J. Prosser
SUPV. L. J. Prosser
IN CHARGE

SATISFACTORY TO

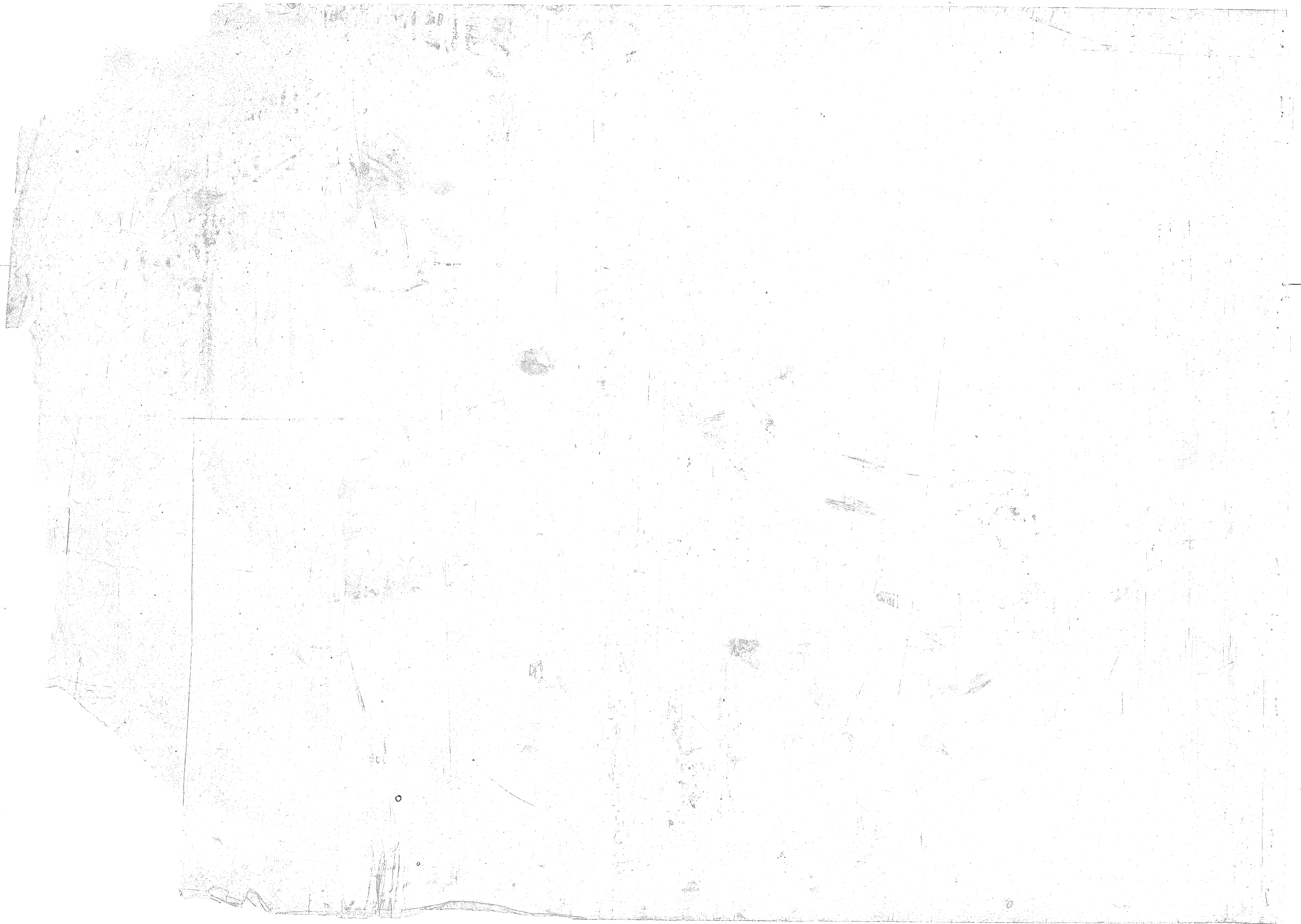
THE QUARTERMASTER GENERAL OR THE MARINE CORPS

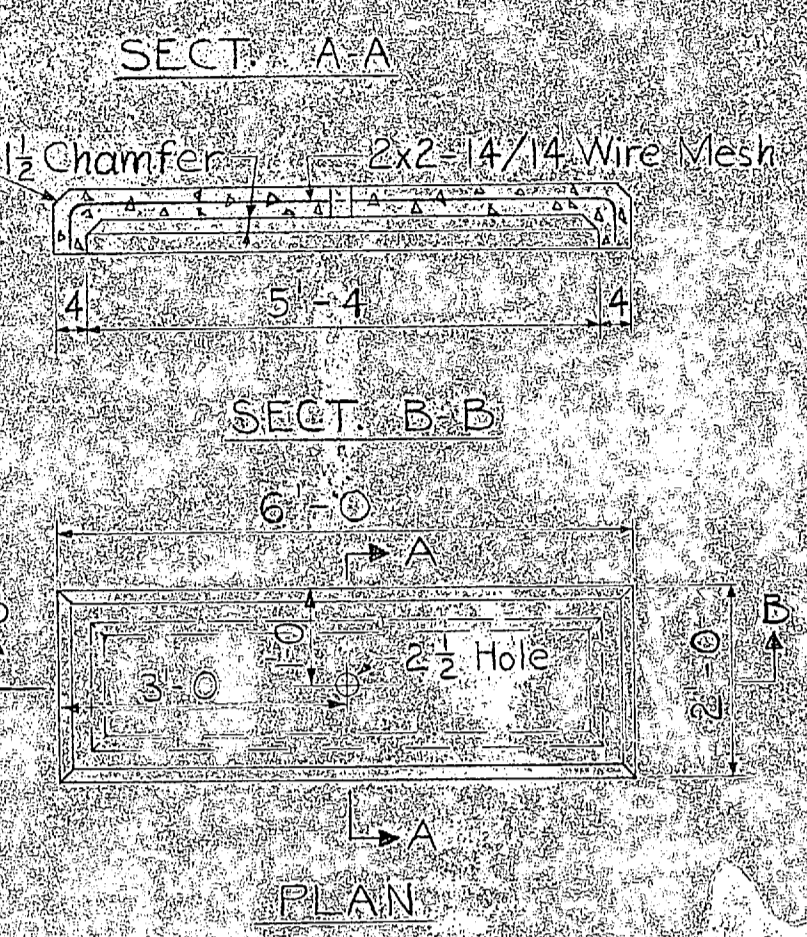
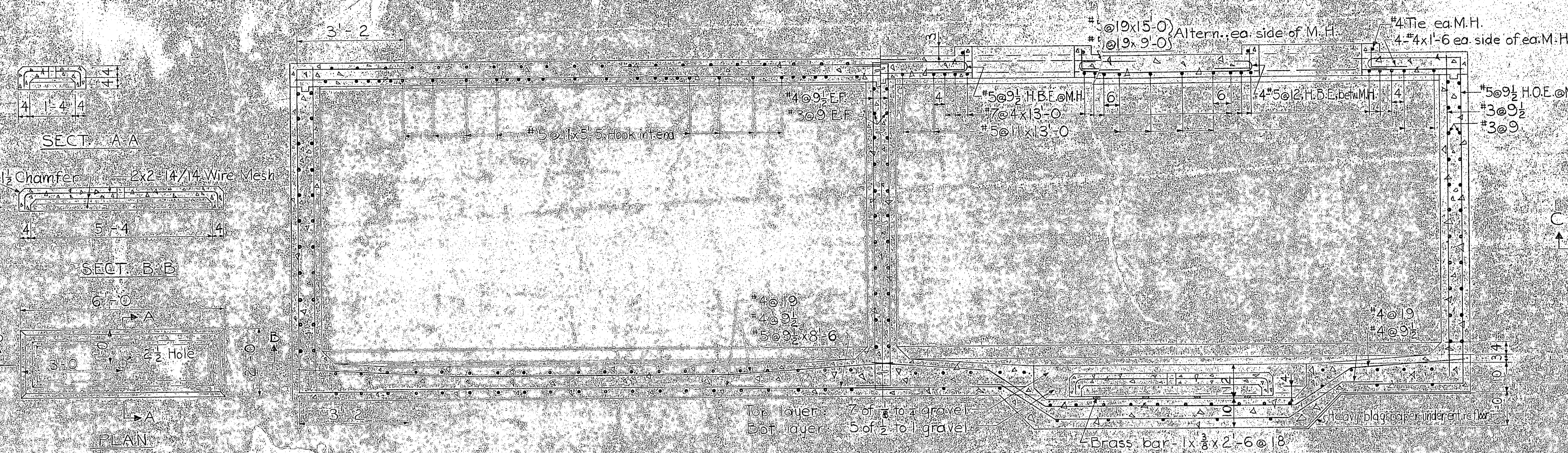
DATE

APPROVED FOR BU

DATE

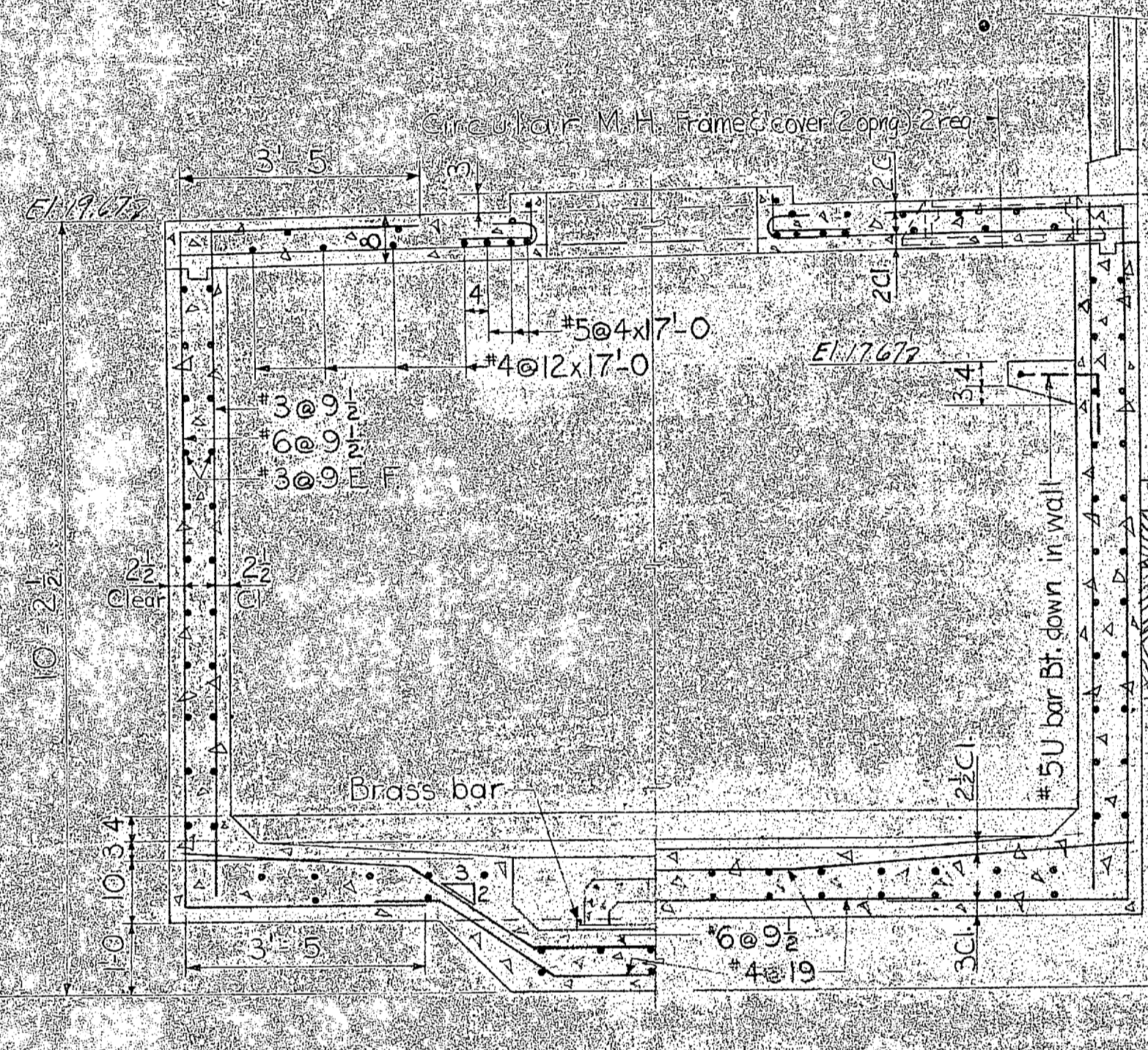
DPW





DETAIL OF CONCRETE TROUGHS
(Two required)
Scale: 1/2" = 1'-0"

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

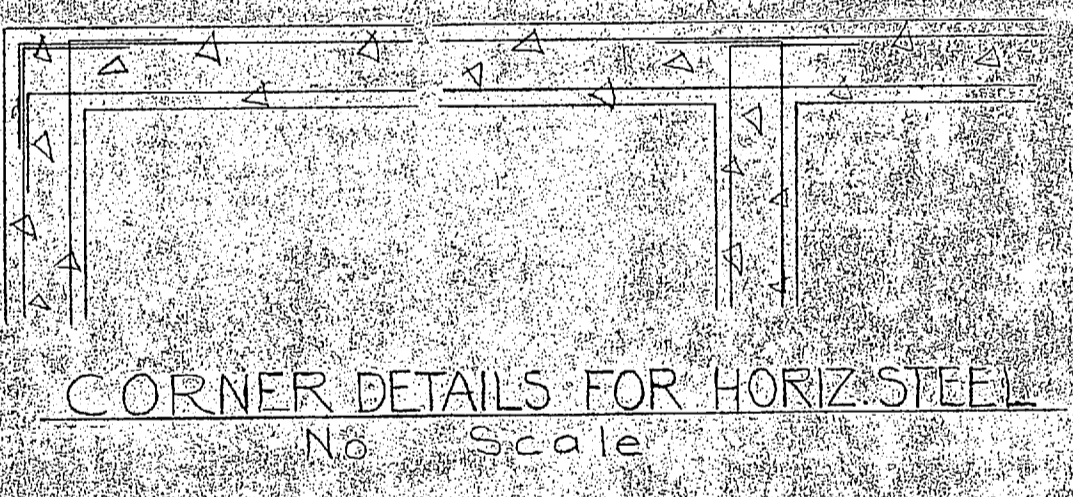


SECTION D-D
Scale: 1/2" = 1'-0"

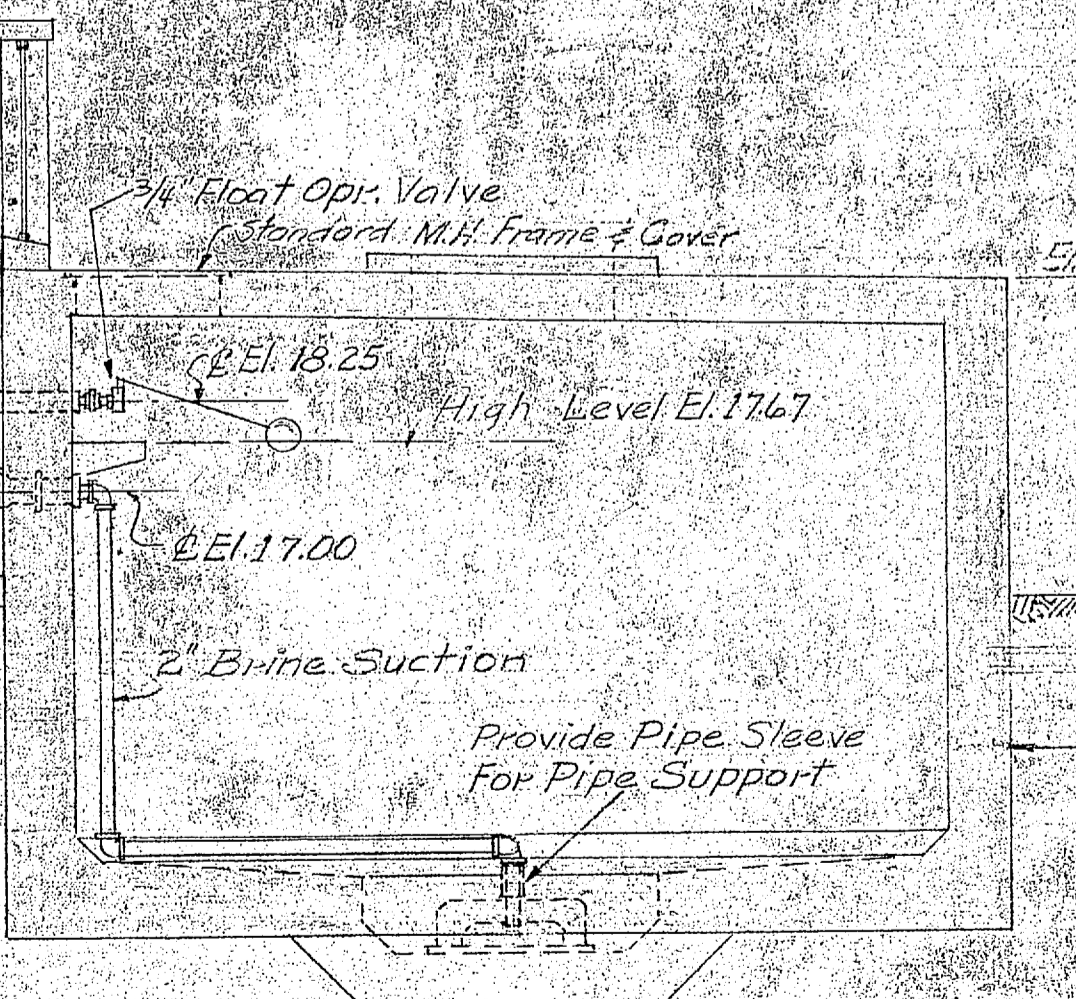
SECTION SQUARE M.H. COVER DETAILS
Scale: 1/2" = 1'-0"



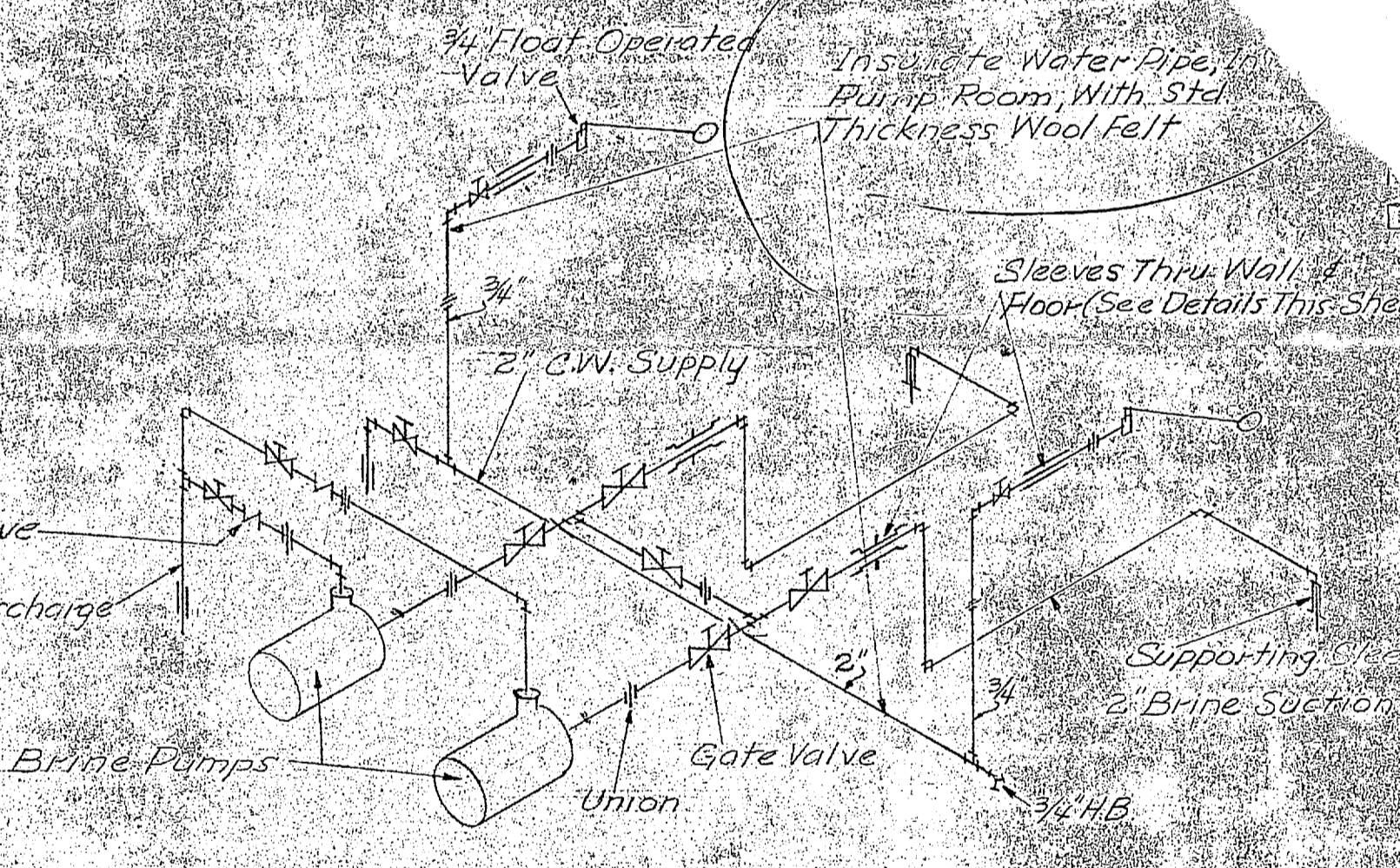
MECHANICAL EQUIPMENT LAYOUT PLAN
SCALE 3/8" = 1'-0"



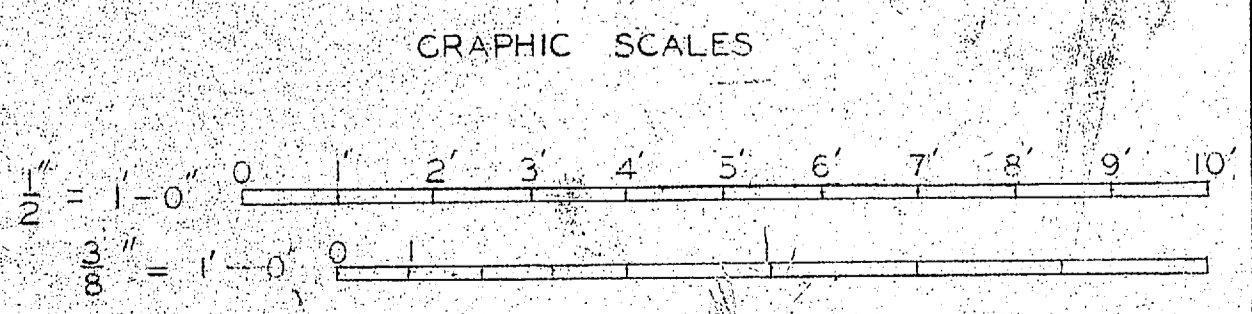
CORNER DETAILS FOR HORIZ. STEEL
No Scale



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

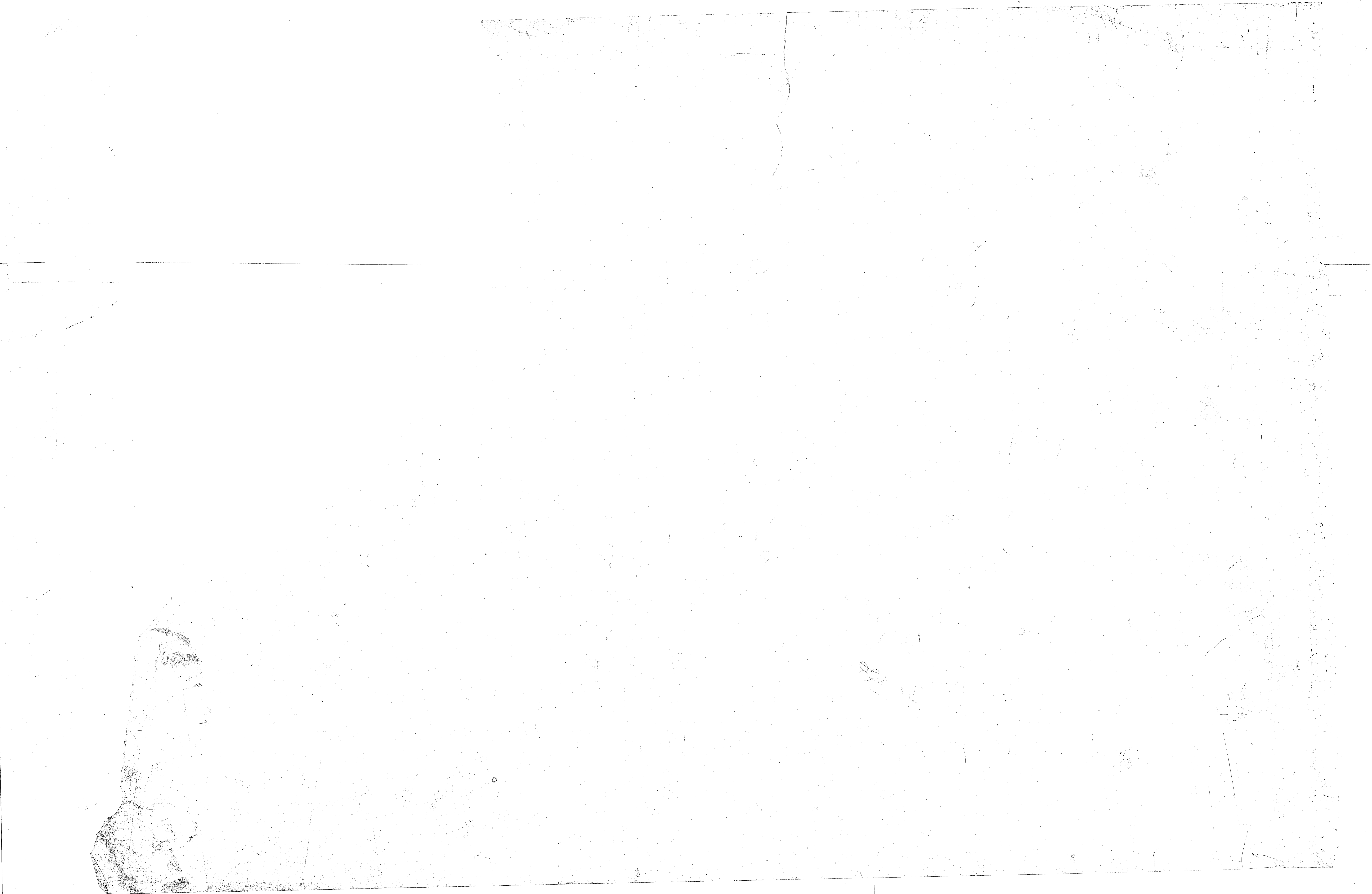


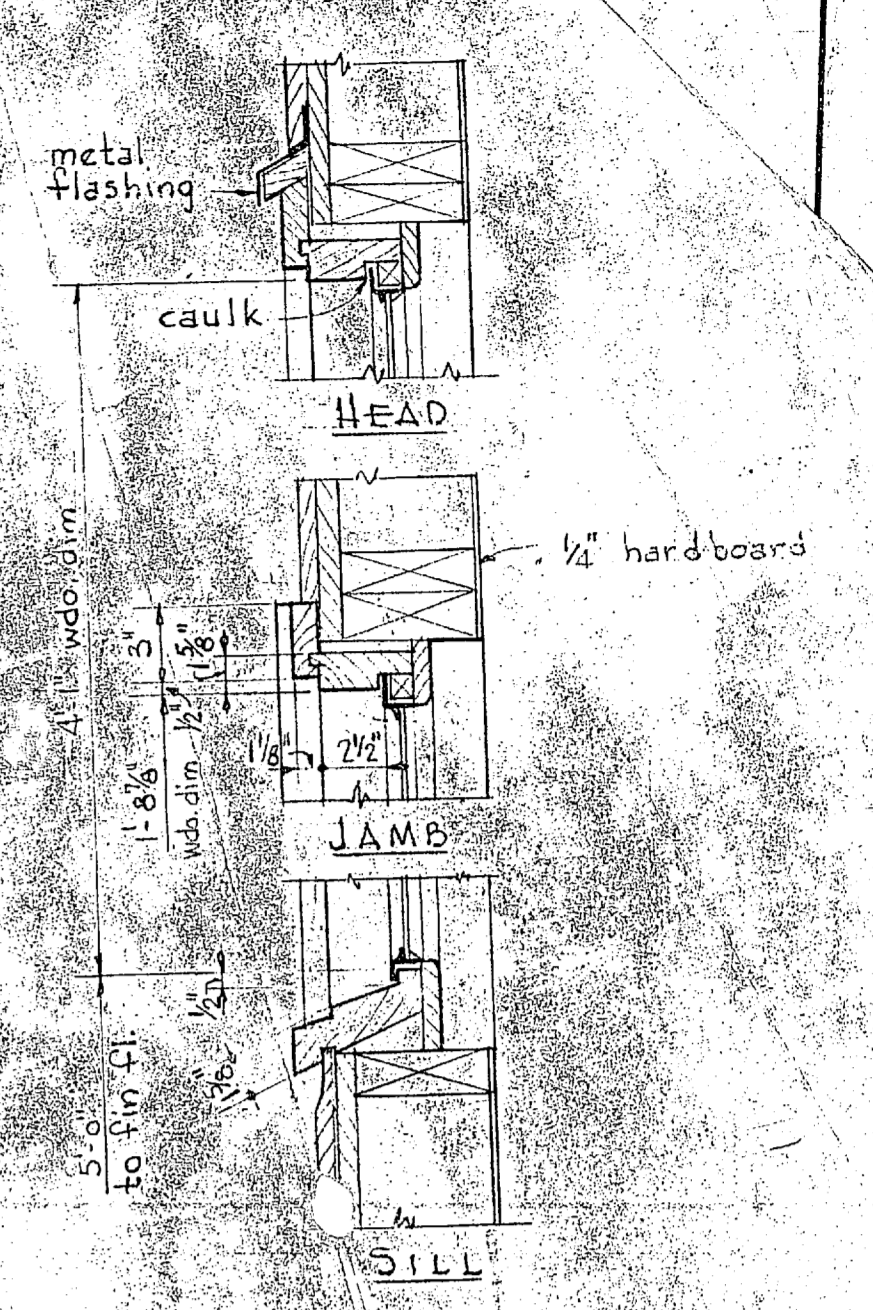
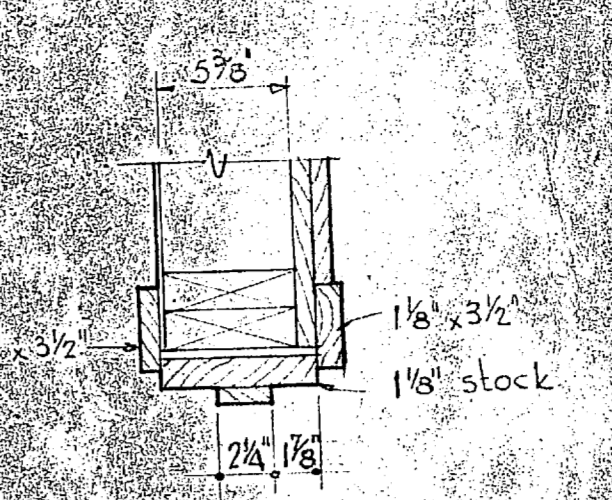
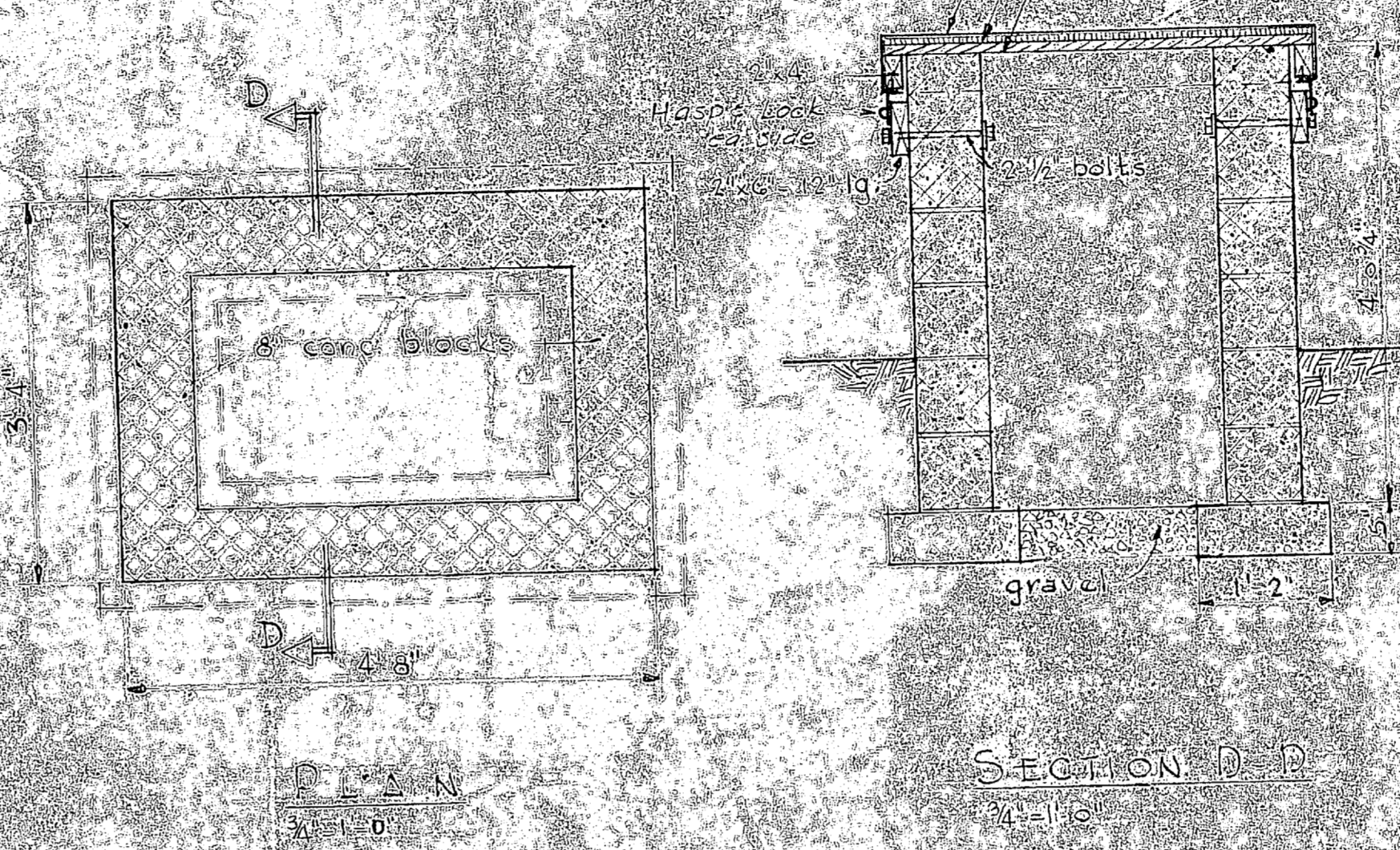
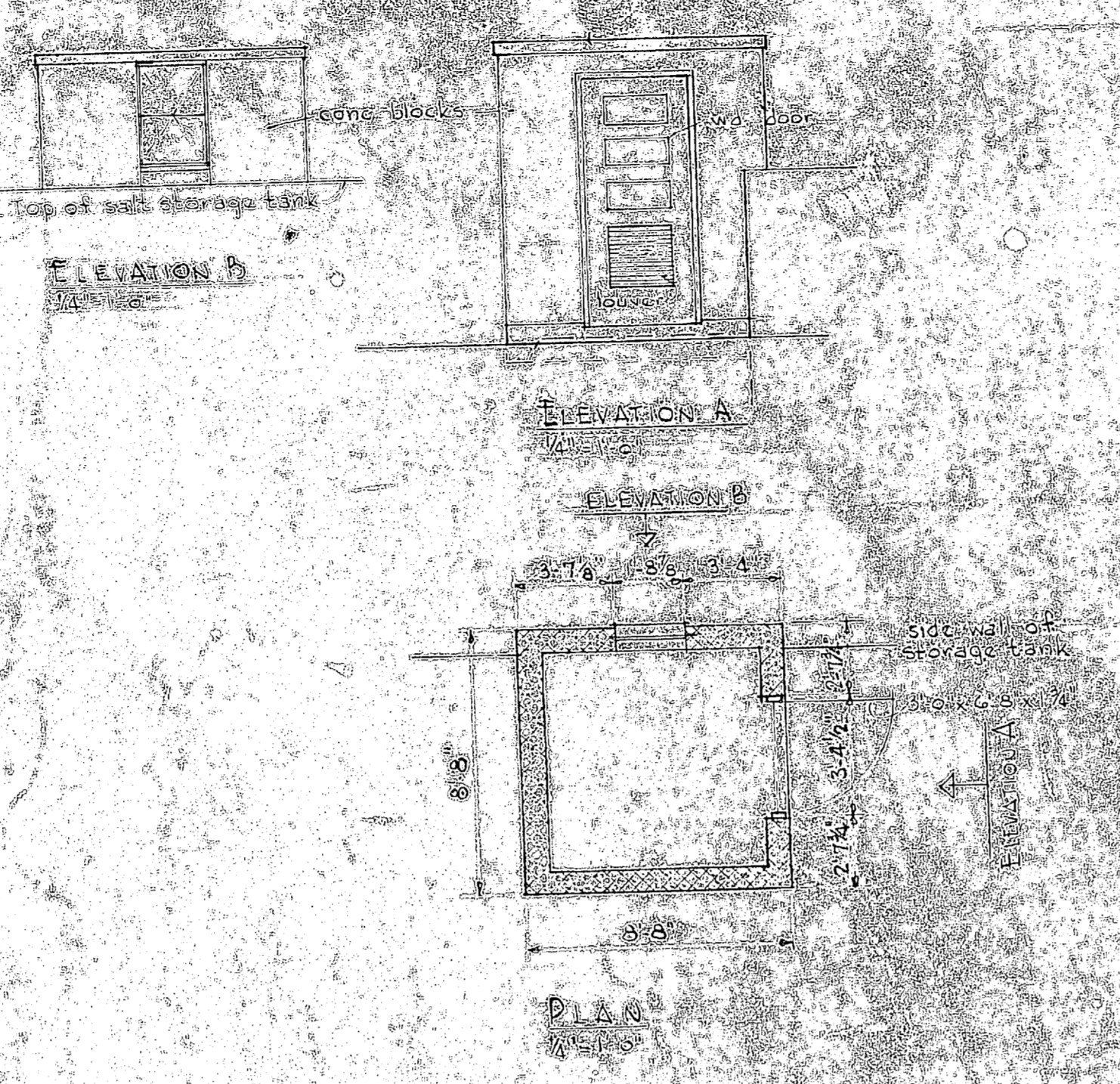
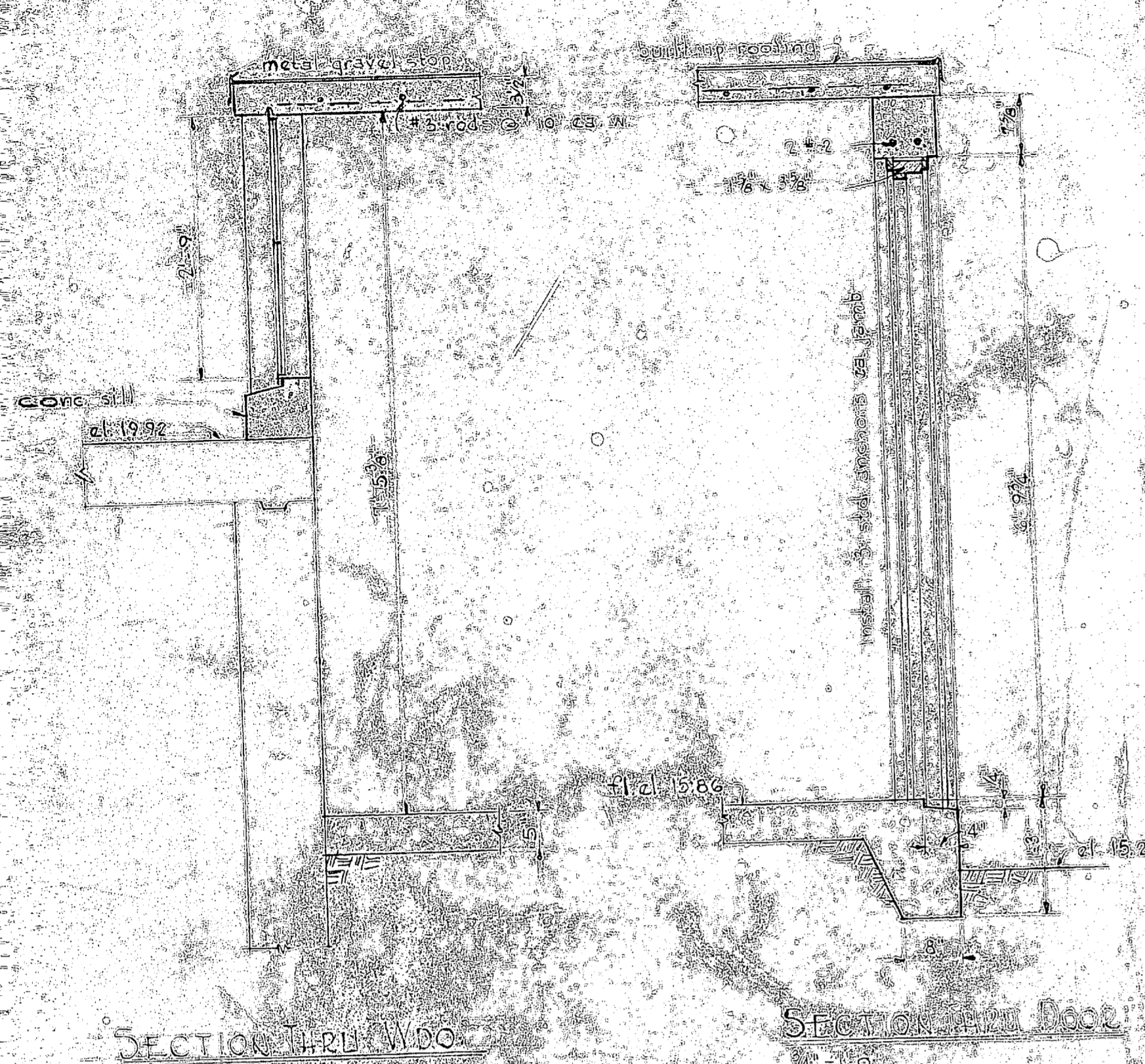
ISOMETRIC WATER & BRINE PIPING AT SALT STORAGE TANKS
No Scale



SATISFACTORY TO
THE QUARTERMASTER GENERAL OF
THE MARINE CORPS
DATE

REVISION DATE APPD.		DESCRIPTION	
P.W. DRAWING NO. 10202		MARINE CORPS BASE CAMP LUNE, N. C.	
DESIGN BY DRAWN BY CHK BY SUPV BY		EXPANSION WATER TREATMENT FACILITY CAN GEIGER SALT STORAGE TANKS, STRUCTURAL AND MECHANICAL PLANS AND DETAILS	
IN CHARGE	APPROVED	DATE	
APPROVED FOR: BUREAU OF YARDS & DOCKS	PUBLIC WORKS OFFICER	7 May 54	
GRAPHIC SPEC 41913	DRAWING NO. 645302		
DRAWING NO. 645302			





PUMP HOUSE AT SALT STORAGE TANK

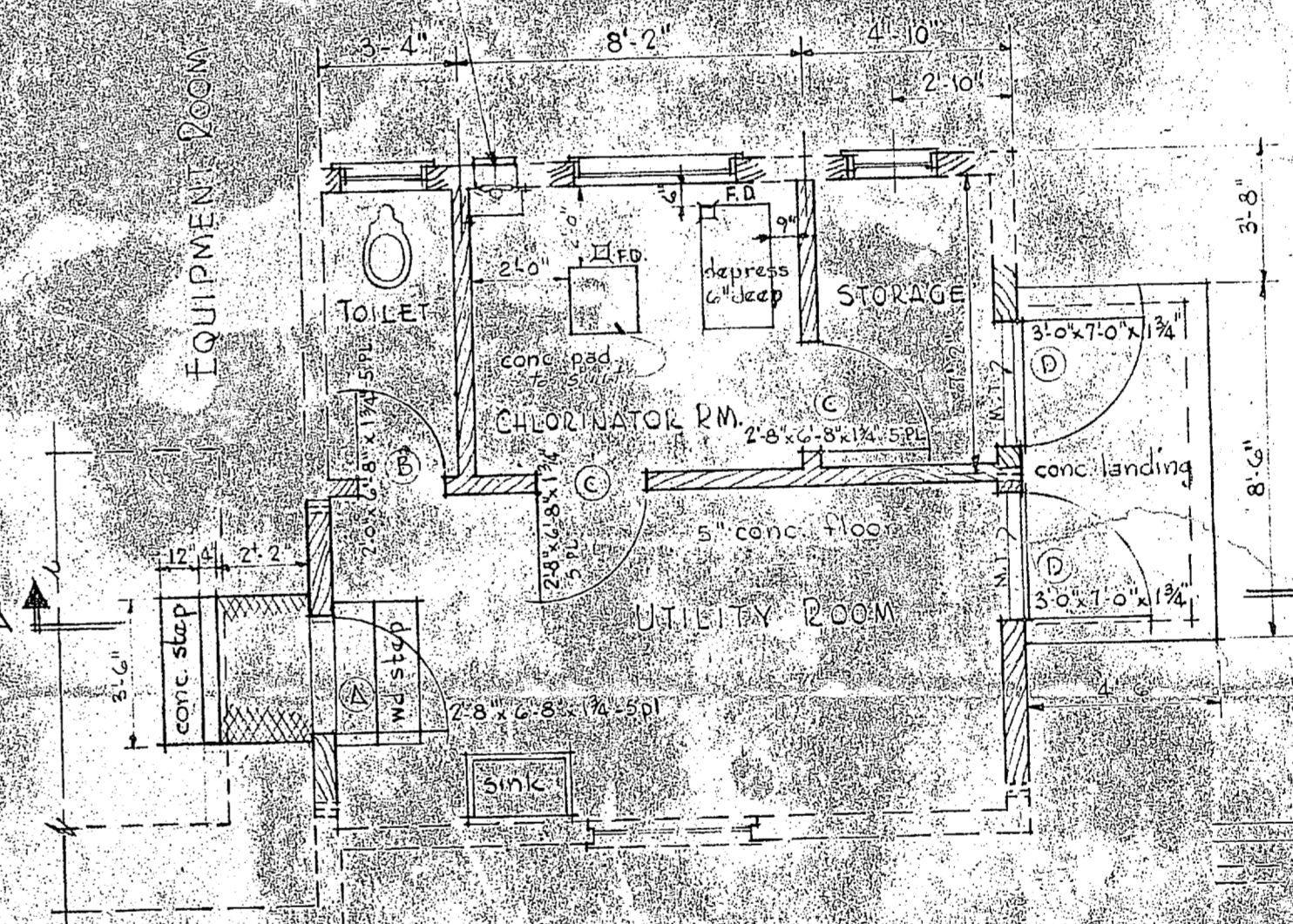
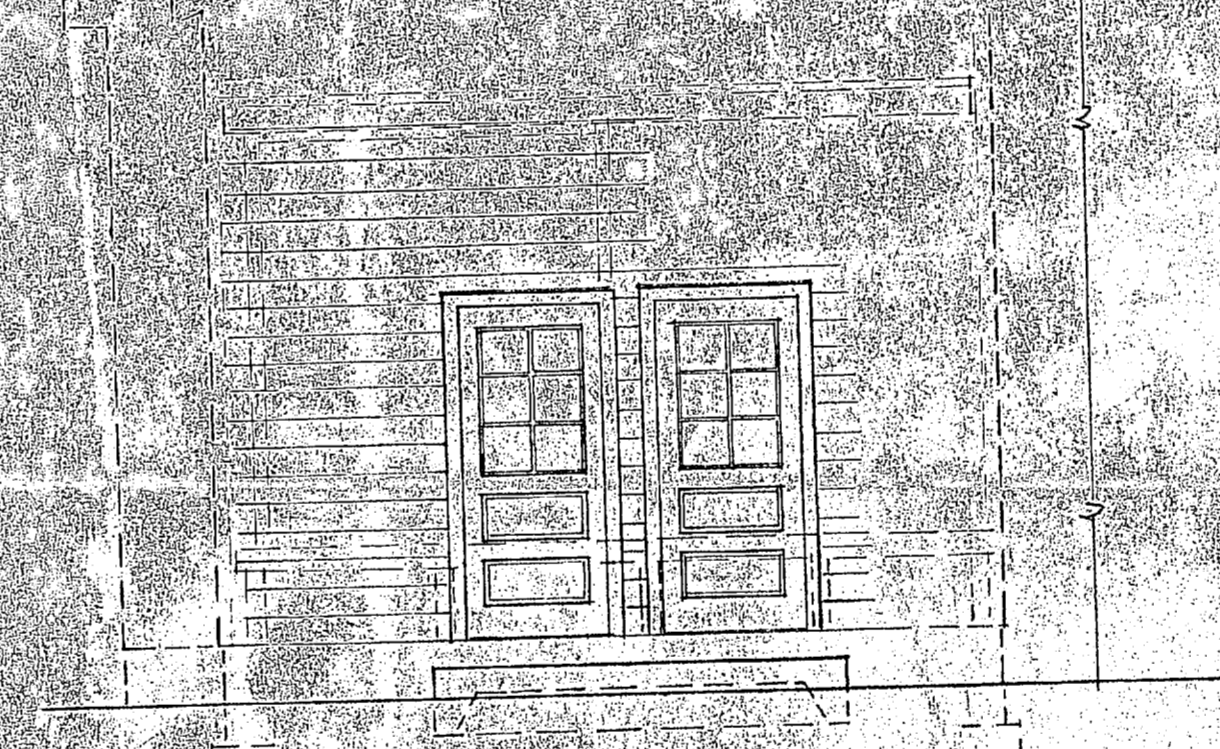
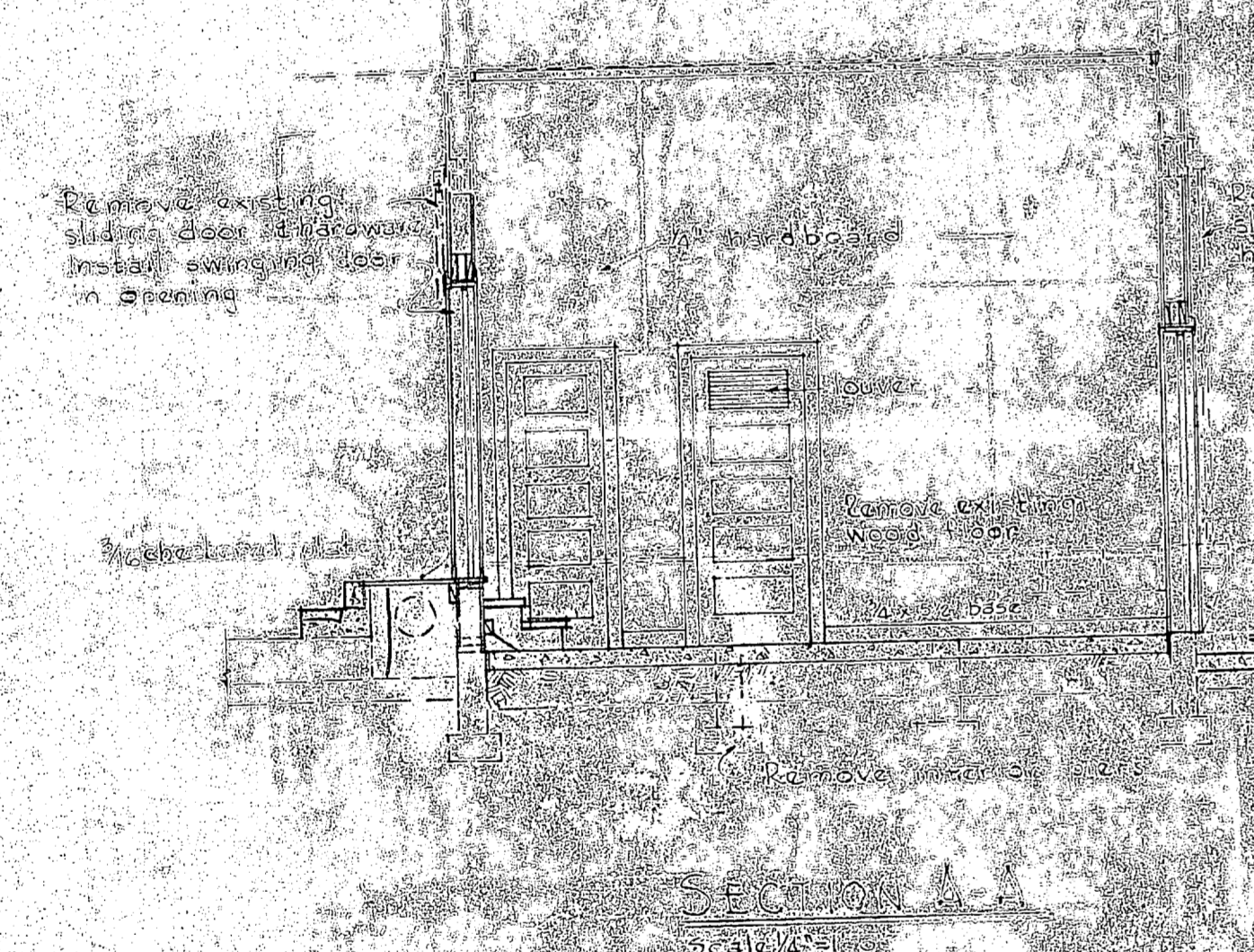
WATER LEVEL TRANSMITTER SHELTER

EXTERIOR DOOR JAMB
Scale: 1/2" = 1'-0"

INTERIOR DOOR JAMB
Scale: 1/2" = 1'-0"

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

Exhaust Fan with 12" x 12" gravity louver.
Fan 10 dia. 460 cfm. 1140 rpm.
Mount fan in wall 6'-0" above floor. Provide
12" x 8" sheet metal ductwork lagged
to wall. Use 2" duct insulation. Floor with
removable floor for access to fan.



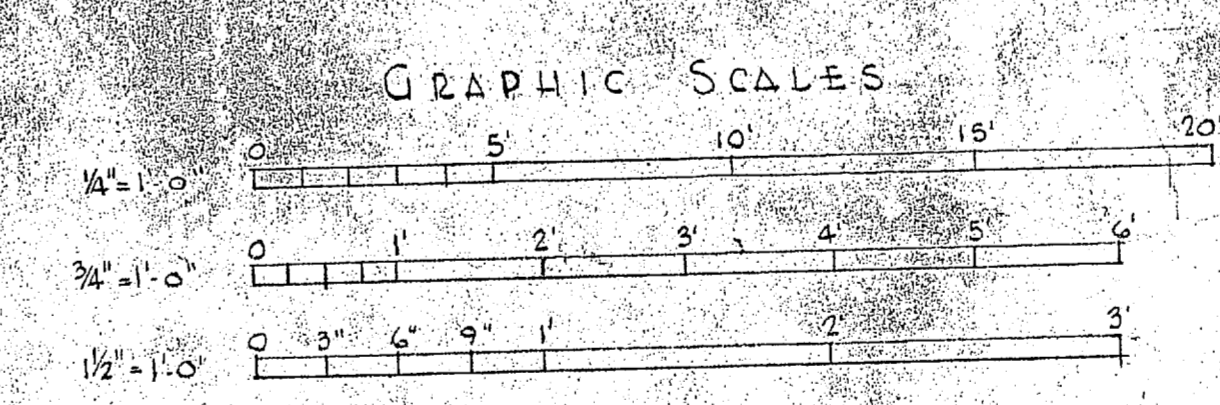
WEST ELEVATION
Scale: 1/2" = 1'-0"

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

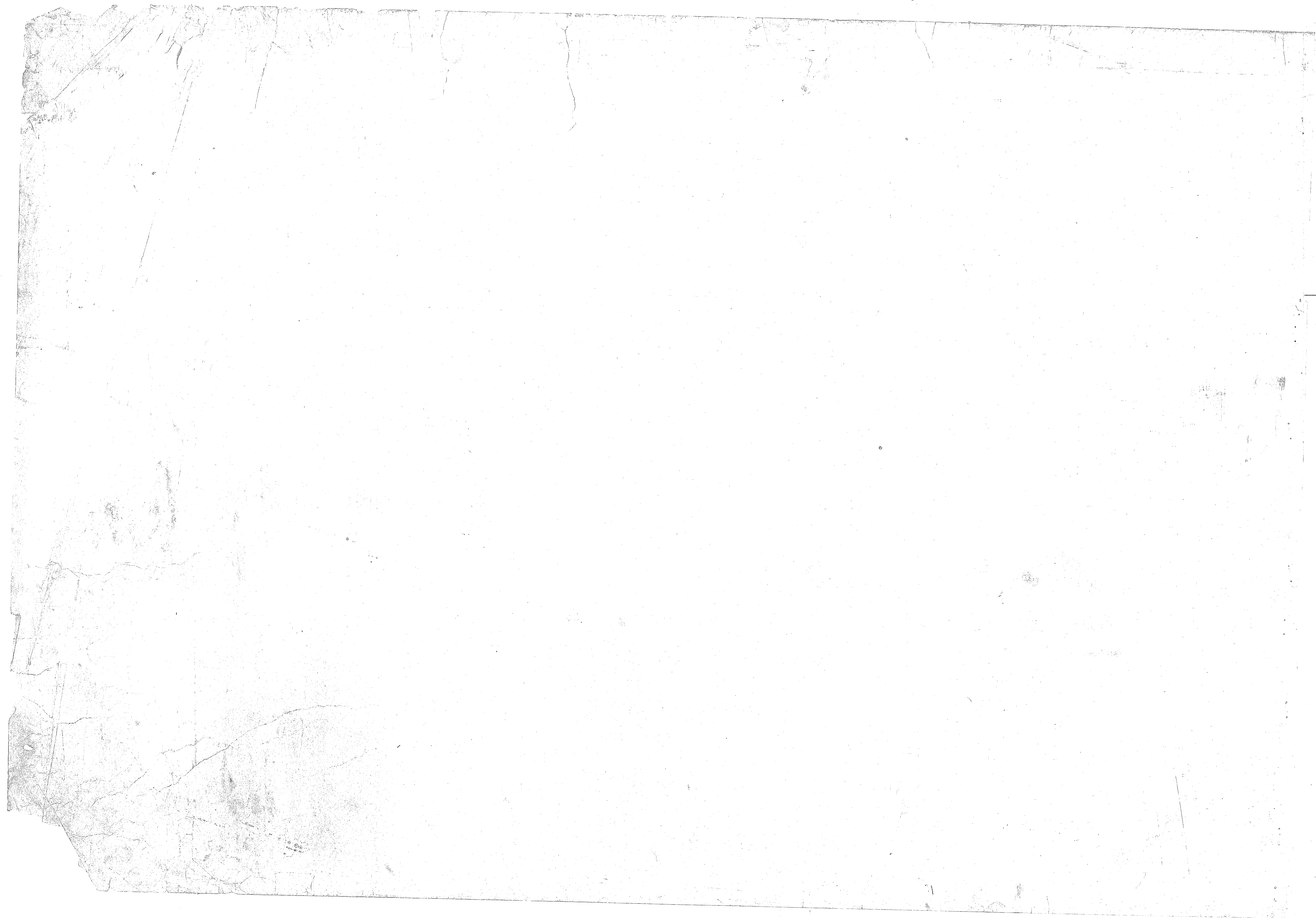
FLOOR PLAN
Scale: 1/4" = 1'-0"

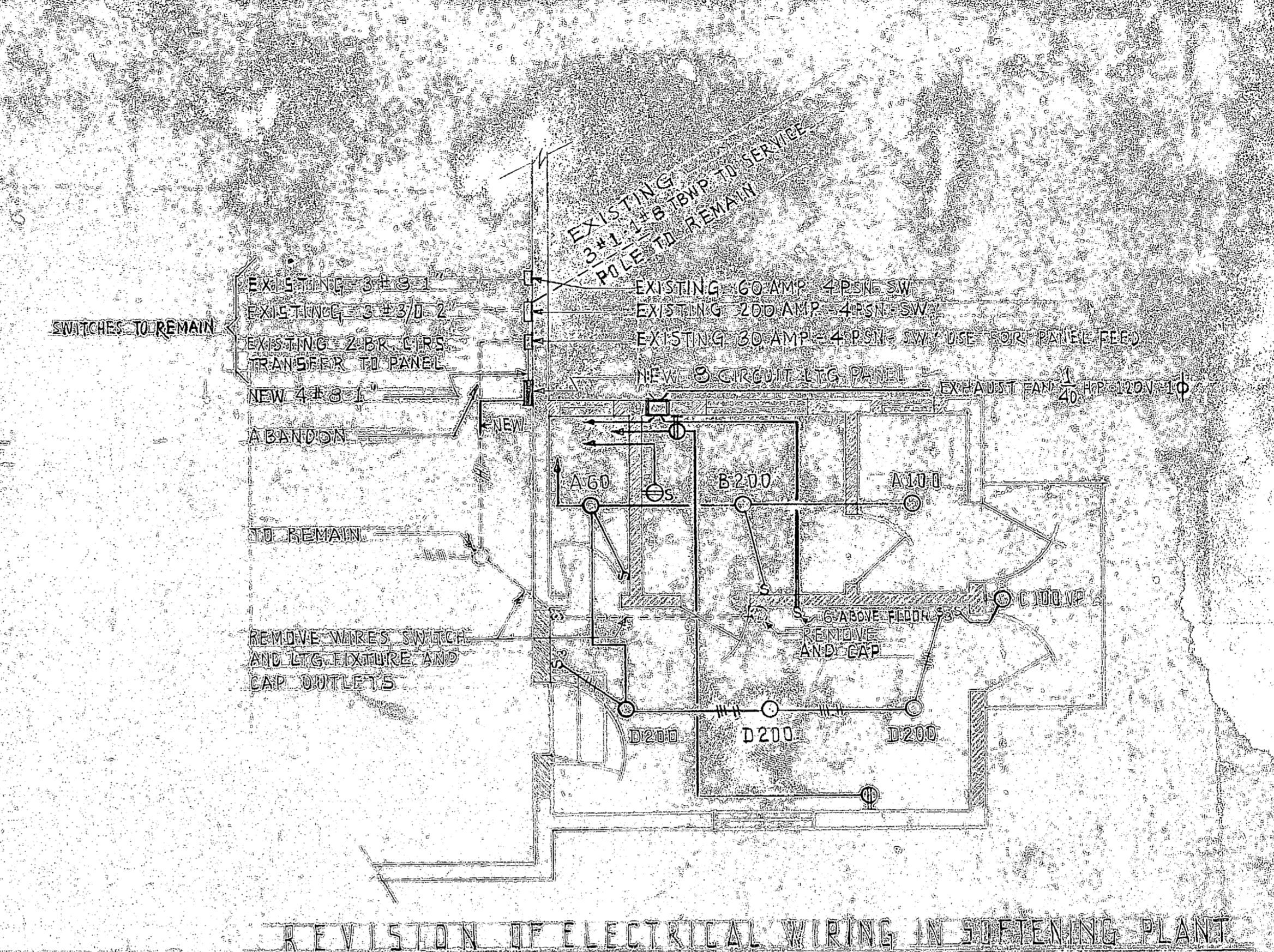
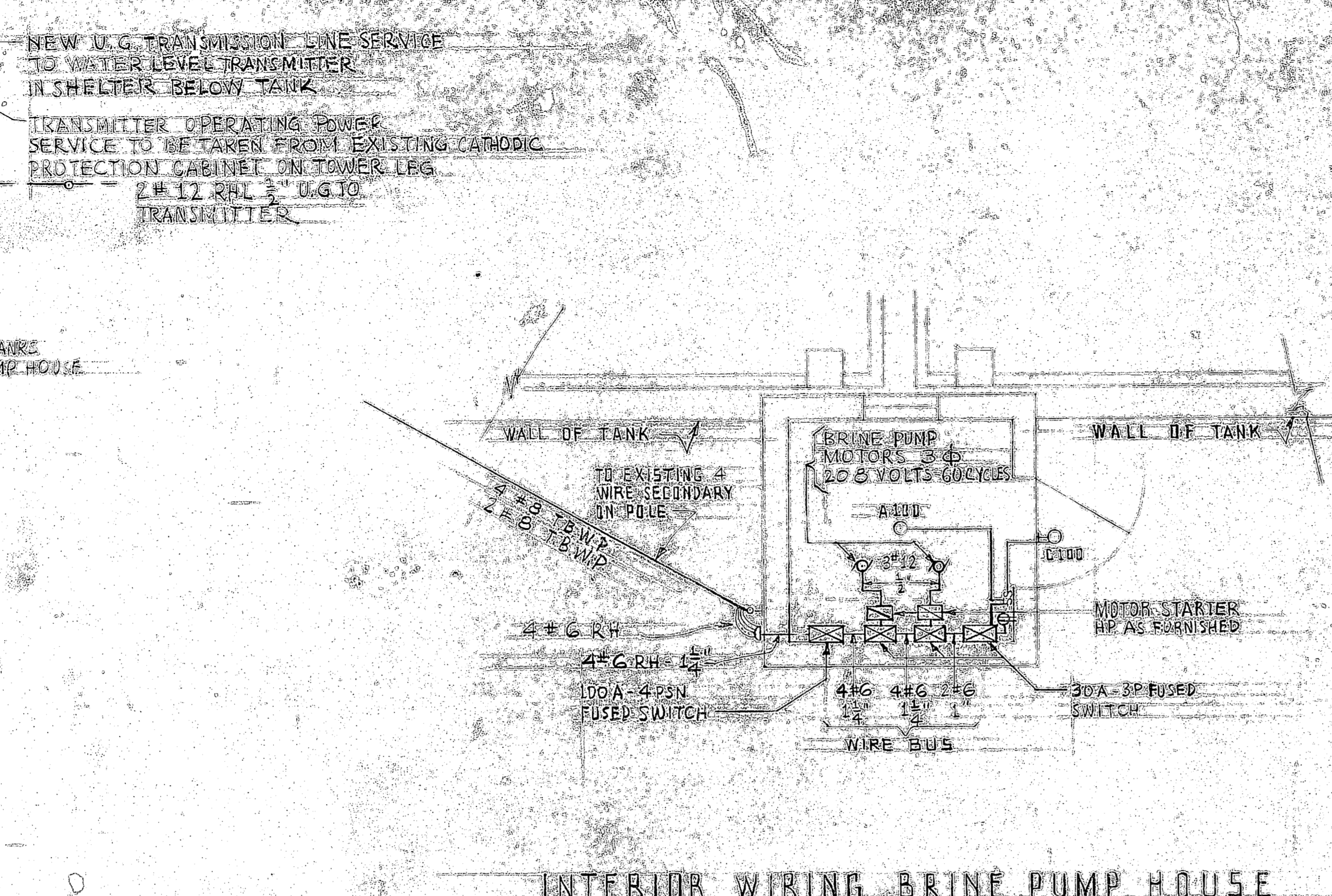
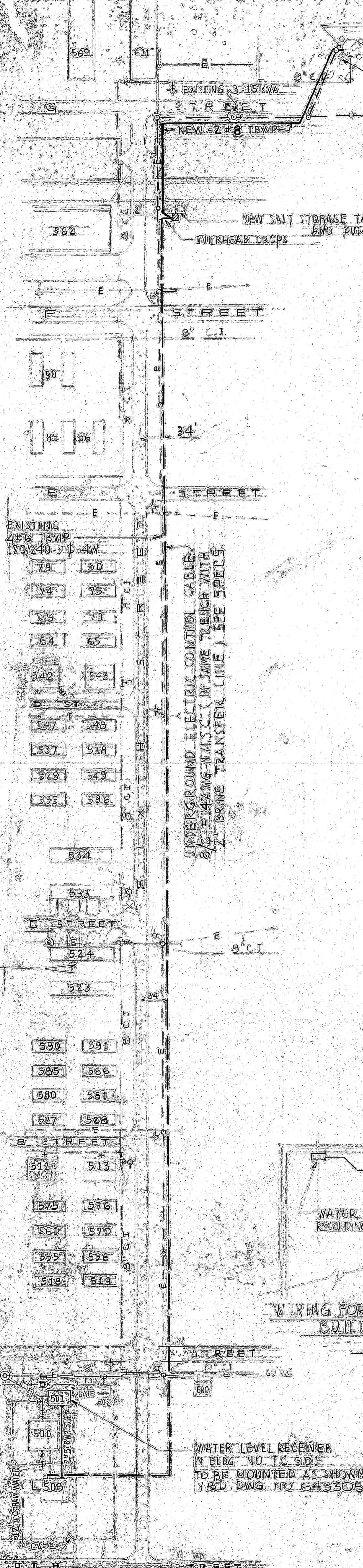
LEGEND
New construction
Existing constr.

NOTE: Dimensions and elevations where
shown in figures shall be used
in preference to scale measurements.



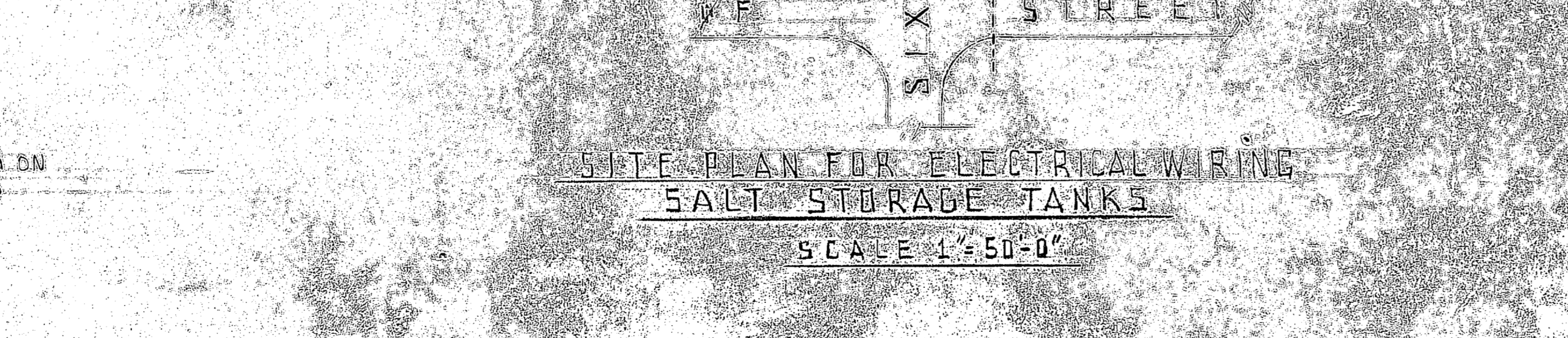
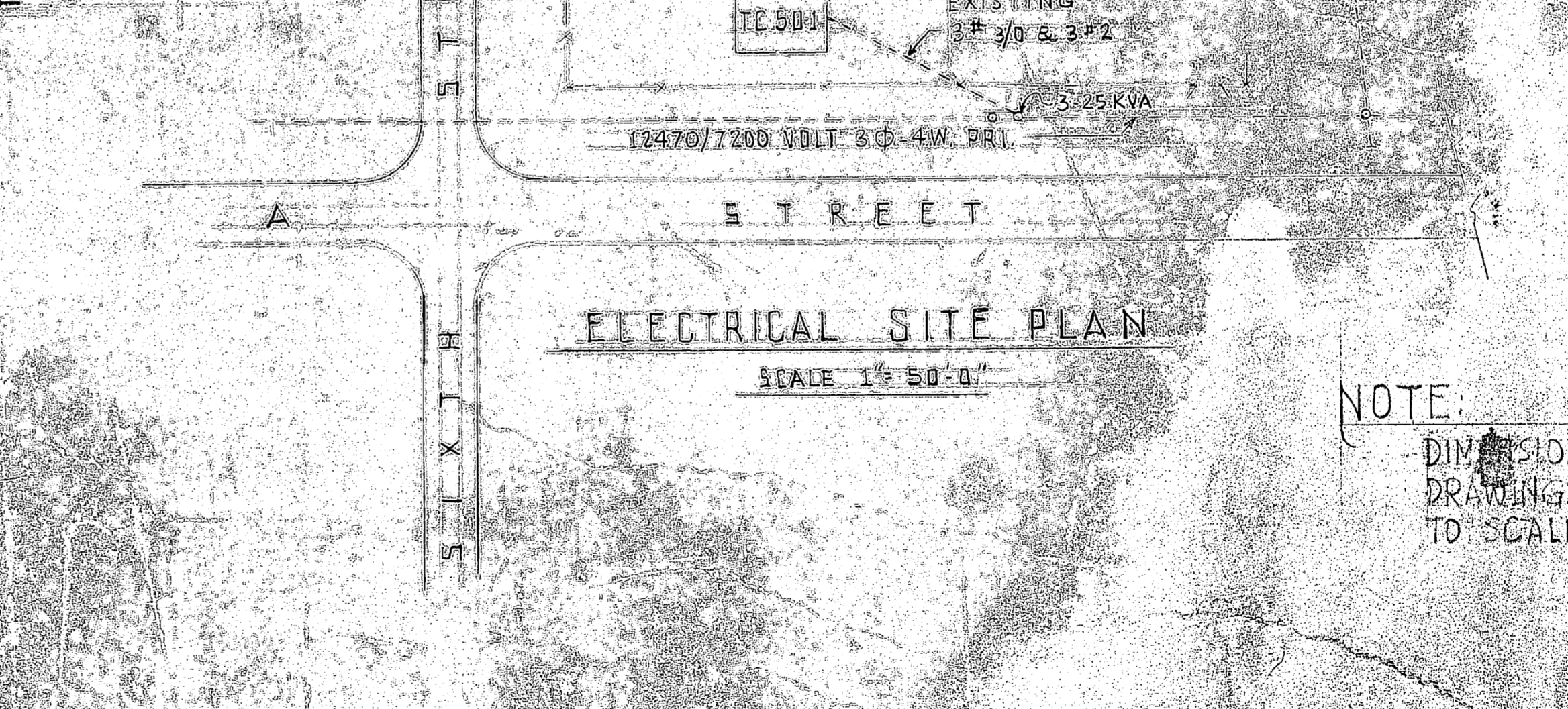
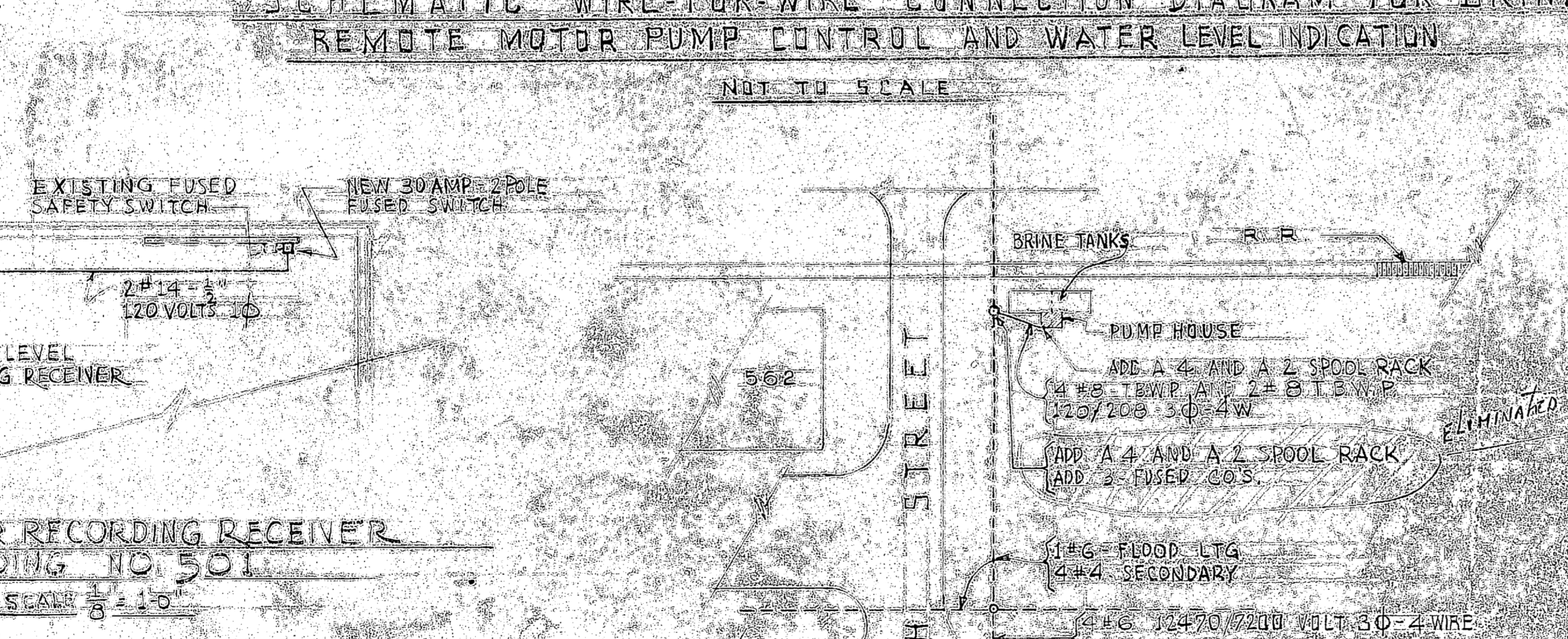
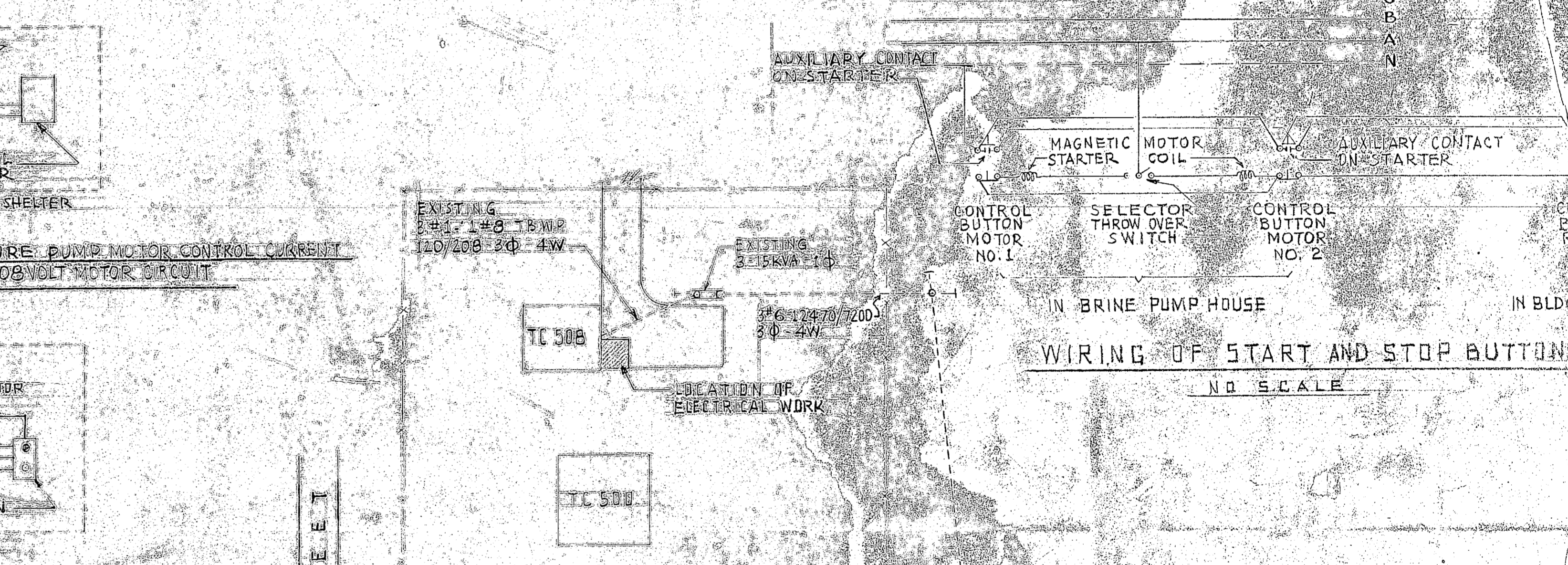
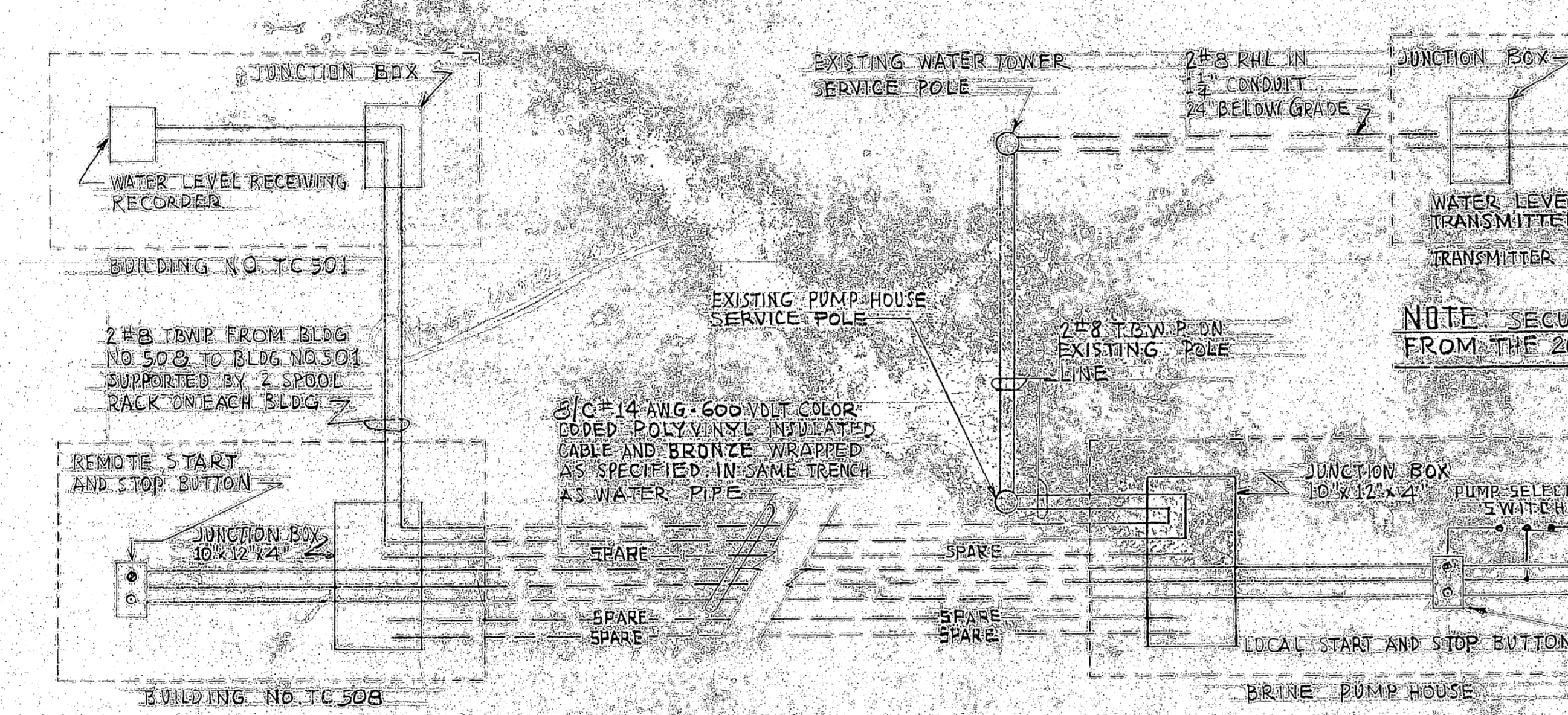
REVISION	DATE	APPD.	DESCRIPTION	BY
P.W. DRAWING NO. 10203			MARINE CORPS BASE CAMP LEJEUNE, N.C.	
DESIGNER TR CHK SUPV			EXPANSION WATER TREATMENT FACILITIES CAMP GEIGER	
			ALTERATIONS TO SOFTENING PLANT PLANS, ELEVATIONS AND DETAILS	
APPROVED			DATE	
IN CHARGE			PUBLIC WORKS OFFICER	
APPROVED FOR BUREAU OF YARDS & DOCKS			SCALE GRAPHIC	
DATE			SHEET 5 OF 9	
THE QUARTERMASTER GENERAL OF THE MARINE CORPS			DPWO FOR CHIEF OF BUREAU	
DATE			Y & D DRAWING NO.	





ELECTRICAL SYMBOLS

- FILING OUTLET
- BRACKET OUTLET
- RECEPTACLE OUTLET 15 AMP 125 VOLTS 4 ABOVE FLOOR
- EXISTING SAFETY SWITCH
- NEW LIGHTING PANEL
- EXISTING LIGHTING FIXTURE
- EXISTING WIRING
- NEW WIRING
- 27
- 25
- 20
- 15
- 10
- 5
- 0
- 13C
- NEW CONSTRUCTION
- MOTOR STARTER - 220 VOLT COIL
- FUSED SAFETY SWITCH
- EXISTING POLE
- EXISTING POLE LINE WIRE
- COMBINATION SINGLE 20 AMP RECEPTACLE AND TOGGLE SWITCH IN SAME PLATE - 4' ABOVE FLOOR FOR PLUGGING IN A 1600 WATT PORTABLE HEATER



NOTE:
DIMENSIONS AND ELEVATIONS IN FIGURES SHOWN TO SCALE MEASUREMENT

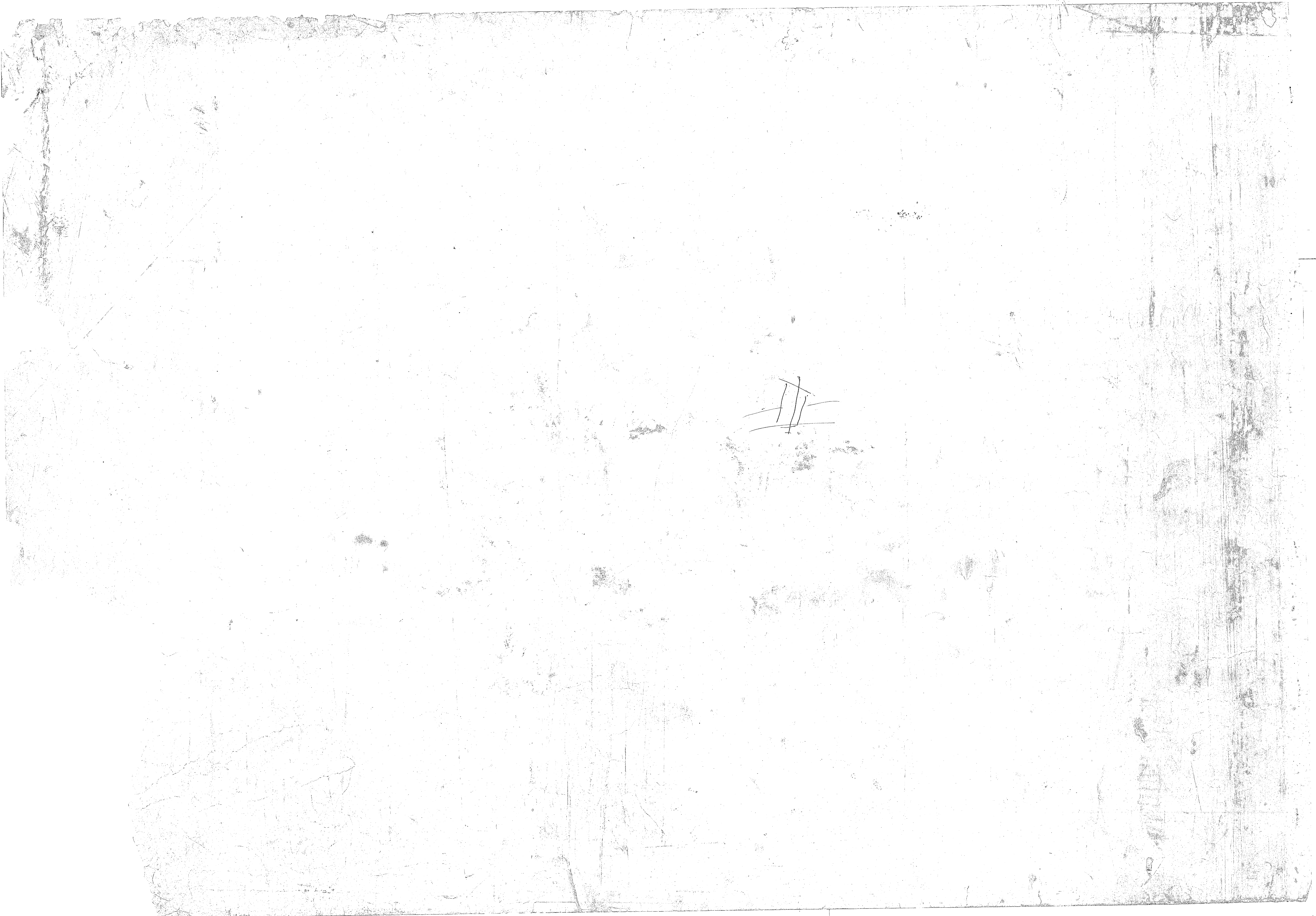
GRAPHIC SCALES

1"=10'	0	5	10	15	20	25	30	35	40	45
1"=20'	0	10	20	30	40	50	60	70	80	90
1"=50'	0	50	100	150	200	250	300	350	400	450
1"=100'	0	100	200	300	400	500	600	700	800	900

REVISION	DATE	APPRD.
P.W. DRAWING NO. 10204		
MARINE CAMP		
DES. W. J. BROWN	EXPANSION WATER	
DRWN. W. J. BROWN	CA	
TR. W. J. BROWN	ELECTRICAL	
CHK. W. J. BROWN	APPROVED	
SUBV. W. J. BROWN	PUBLIC	
IN CHARGE W. J. BROWN	APPROVED FOR BUREAU OF YARDS & DOCKS	
DATE		
OPWO FOR CHIEF OF BUREAU		

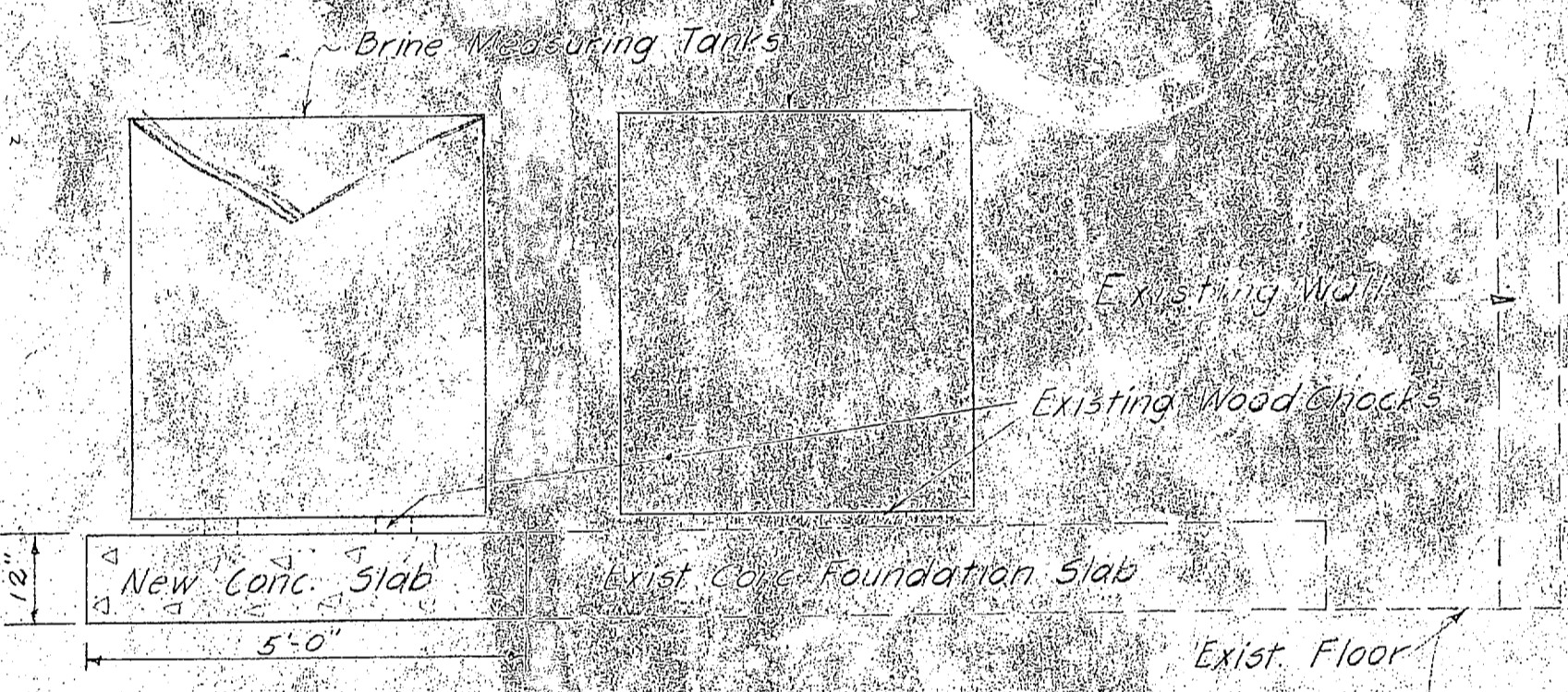
SATISFACTORY TO THE QUARTERMASTER-GENERAL OF THE MARINE CORPS
DATE

SATISFACTORY TO THE QUARTERMASTER-GENERAL OF THE MARINE CORPS
DATE

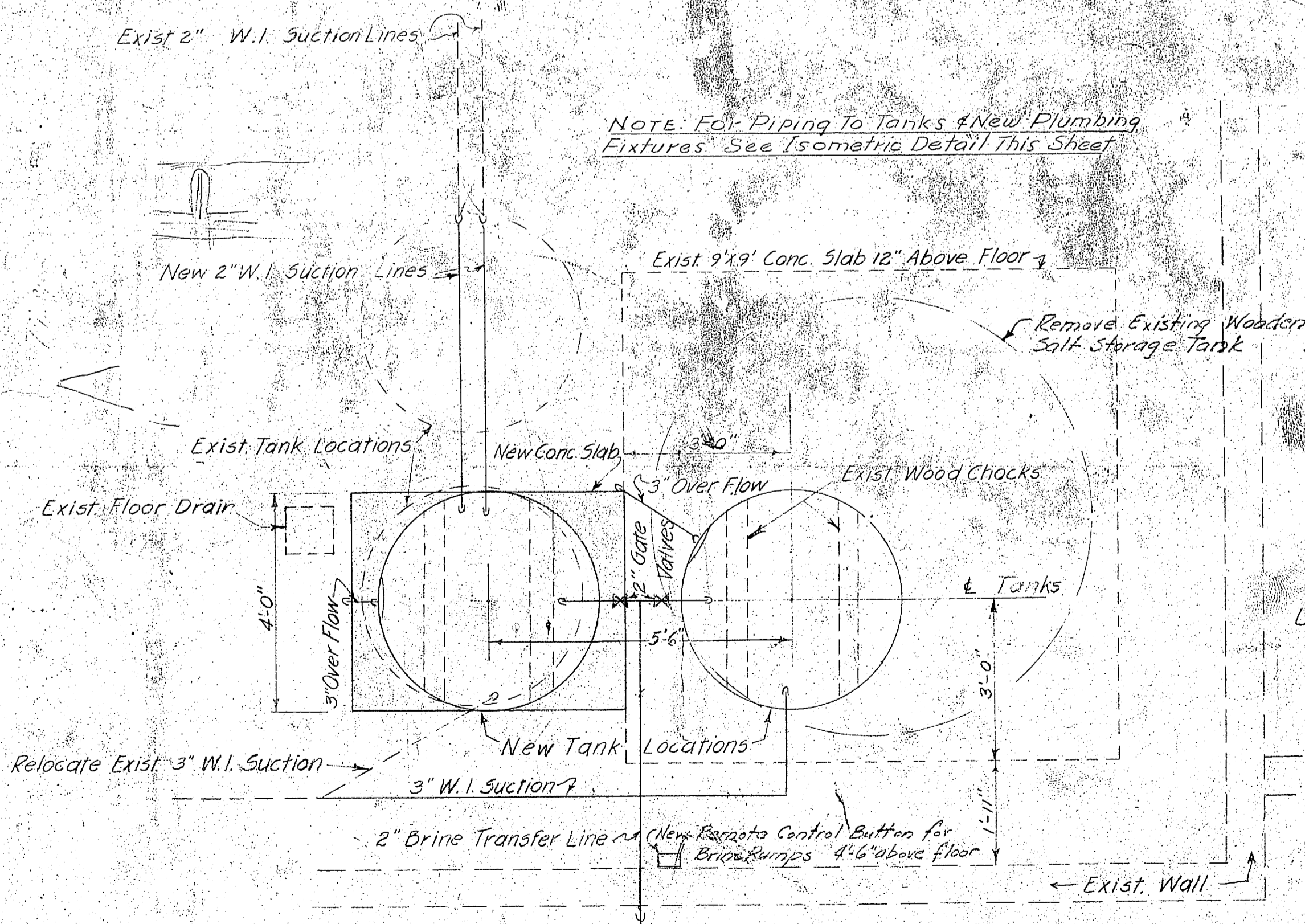




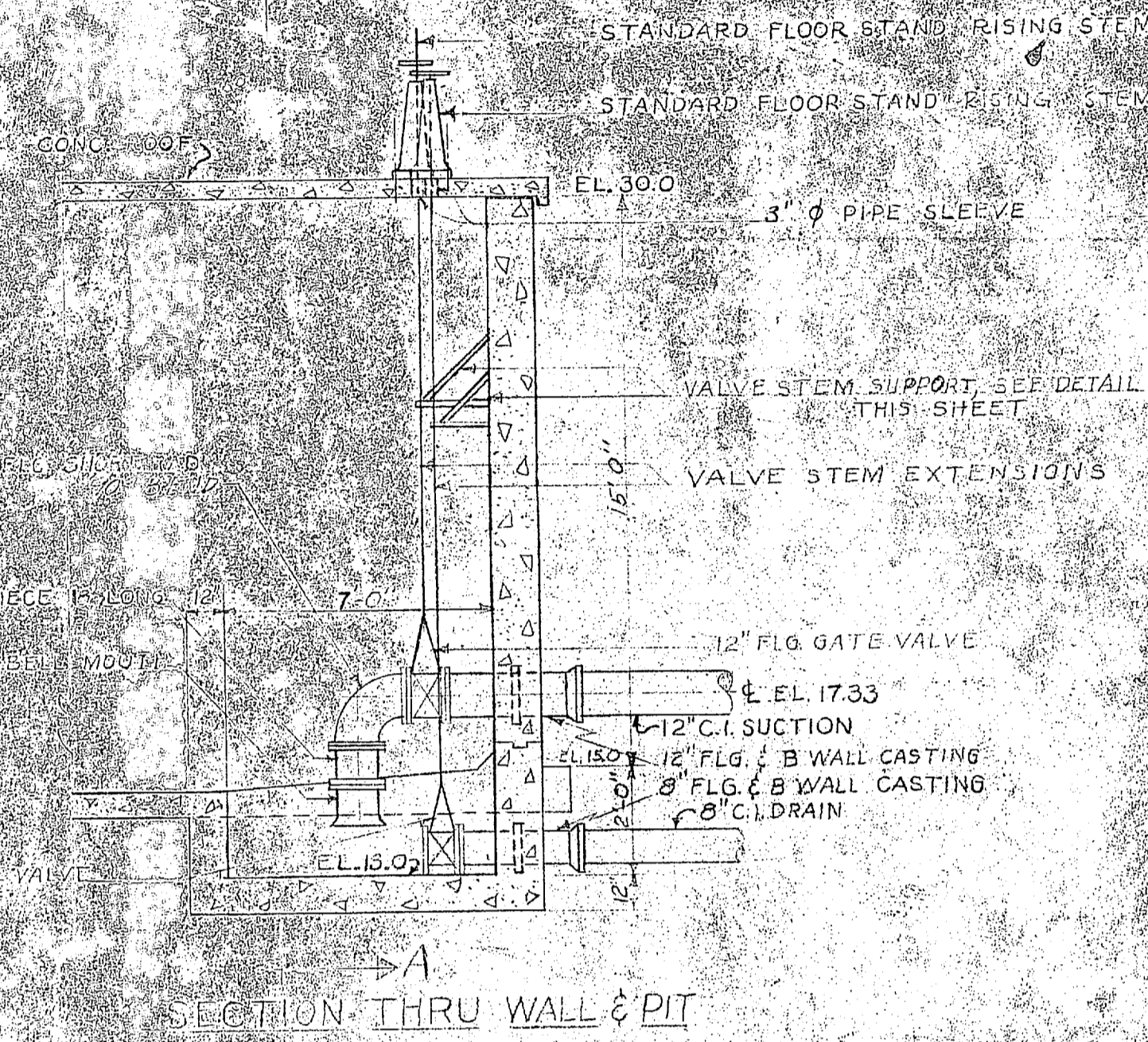
**MISCELLANEOUS
ALTERATIONS TO BRINE & WATER PIPING
IN WATER TREATING PLANT**
NO SCALE



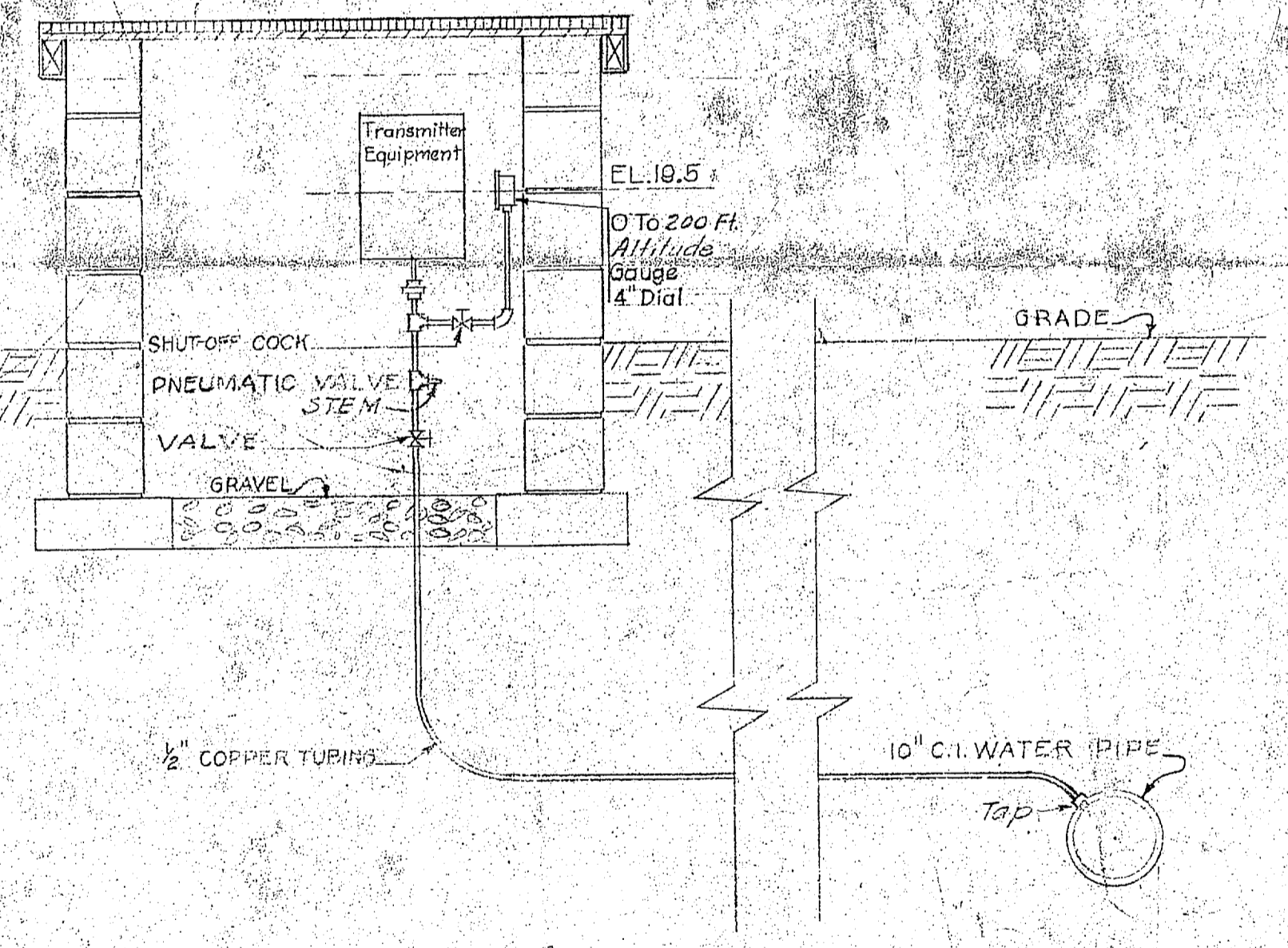
**ELEVATION
BRINE MEASURING TANKS
IN NEW LOCATION**
SCALE 3/4"=1'-0"



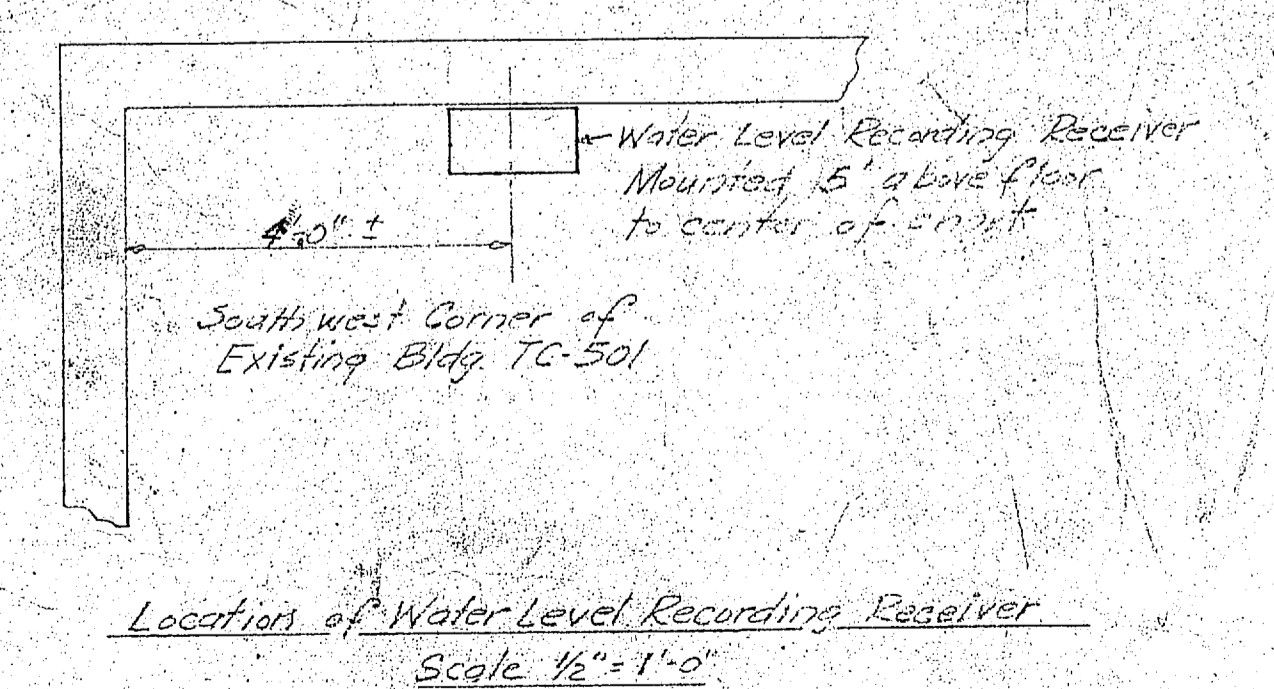
**PLAN
NEW LOCATIONS OF EXISTING
BRINE MEASURING TANKS**
SCALE 3/4"=1'-0"



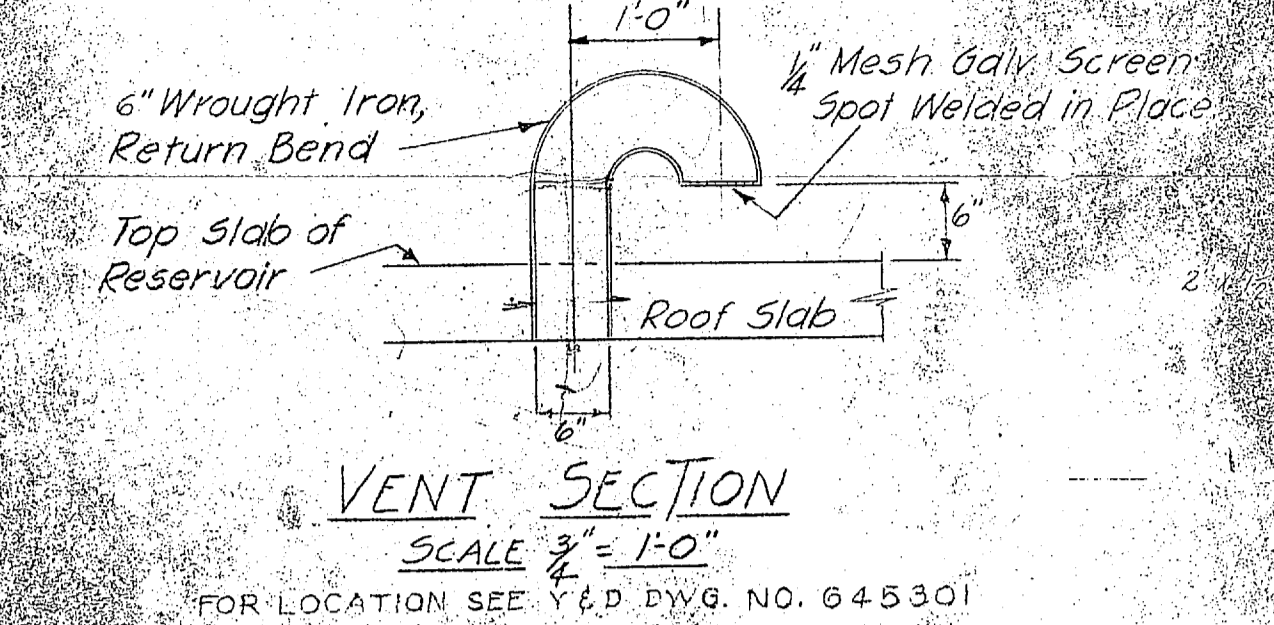
**RESERVOIR PIPING
DETAIL OF SUCTION AND DRAIN LINES**
NOTE: INFLUENT LINE THROUGH WALL TO BE AT SAME ELEVATION AS SUCTION LINE. USE RISING STEM FLOOR STAND FOR LOCATIONS SEE Y & D DWG. NO. 645306



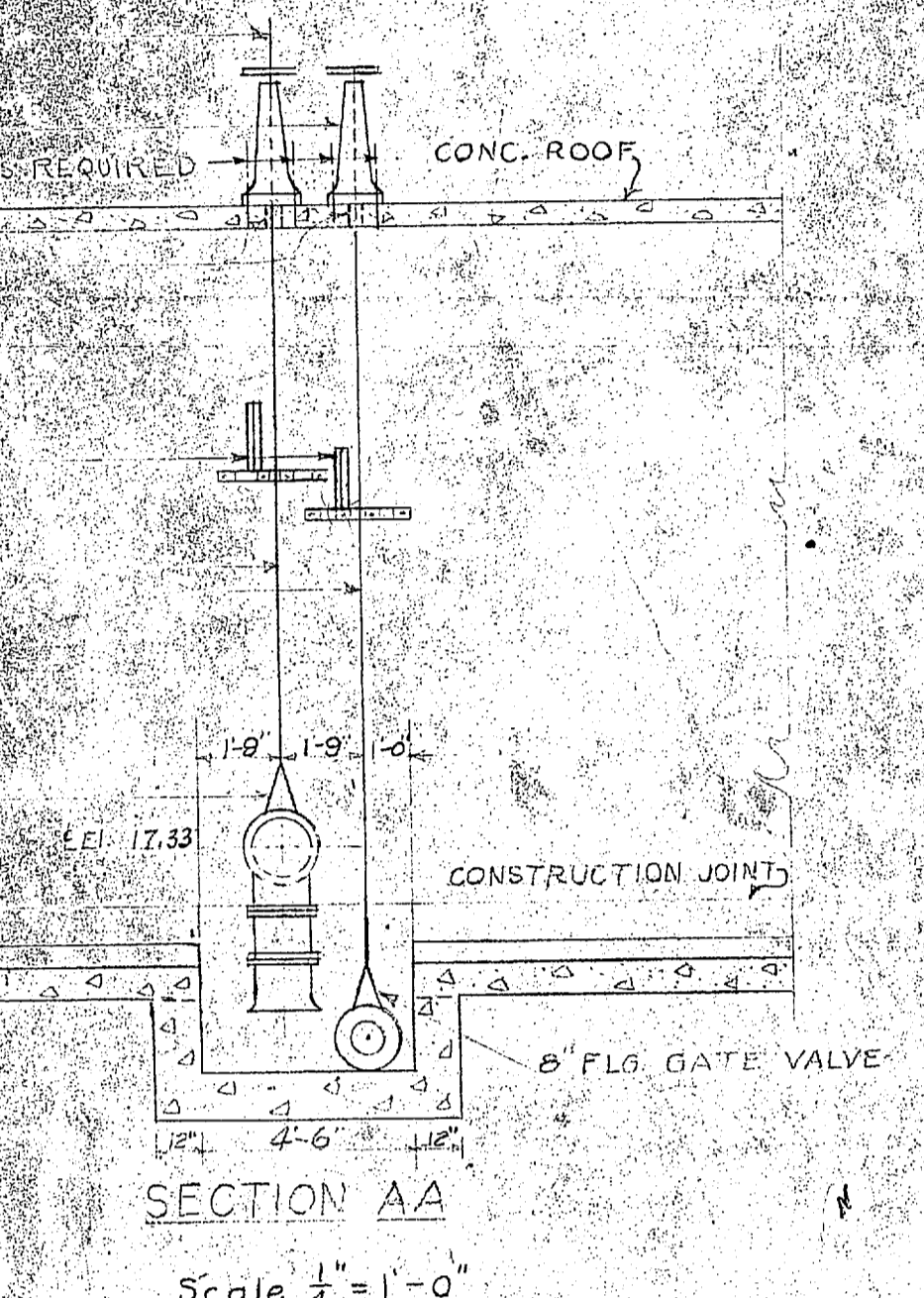
DETAIL OF PIPING TO TRANSMITTER
SCALE 3/4"=1'



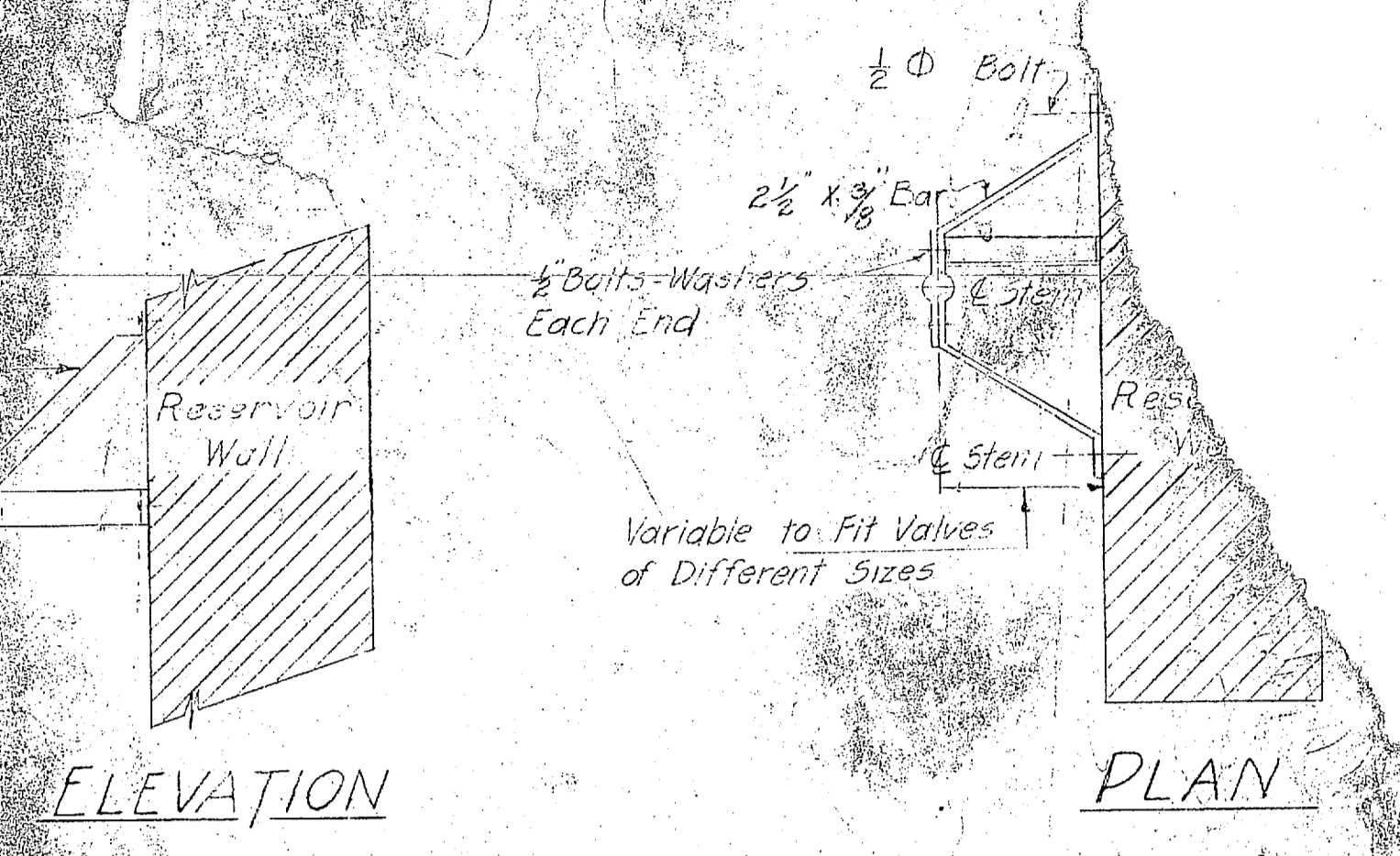
Location of Water Level Recording Receiver
SCALE 1/2"=1'-0"



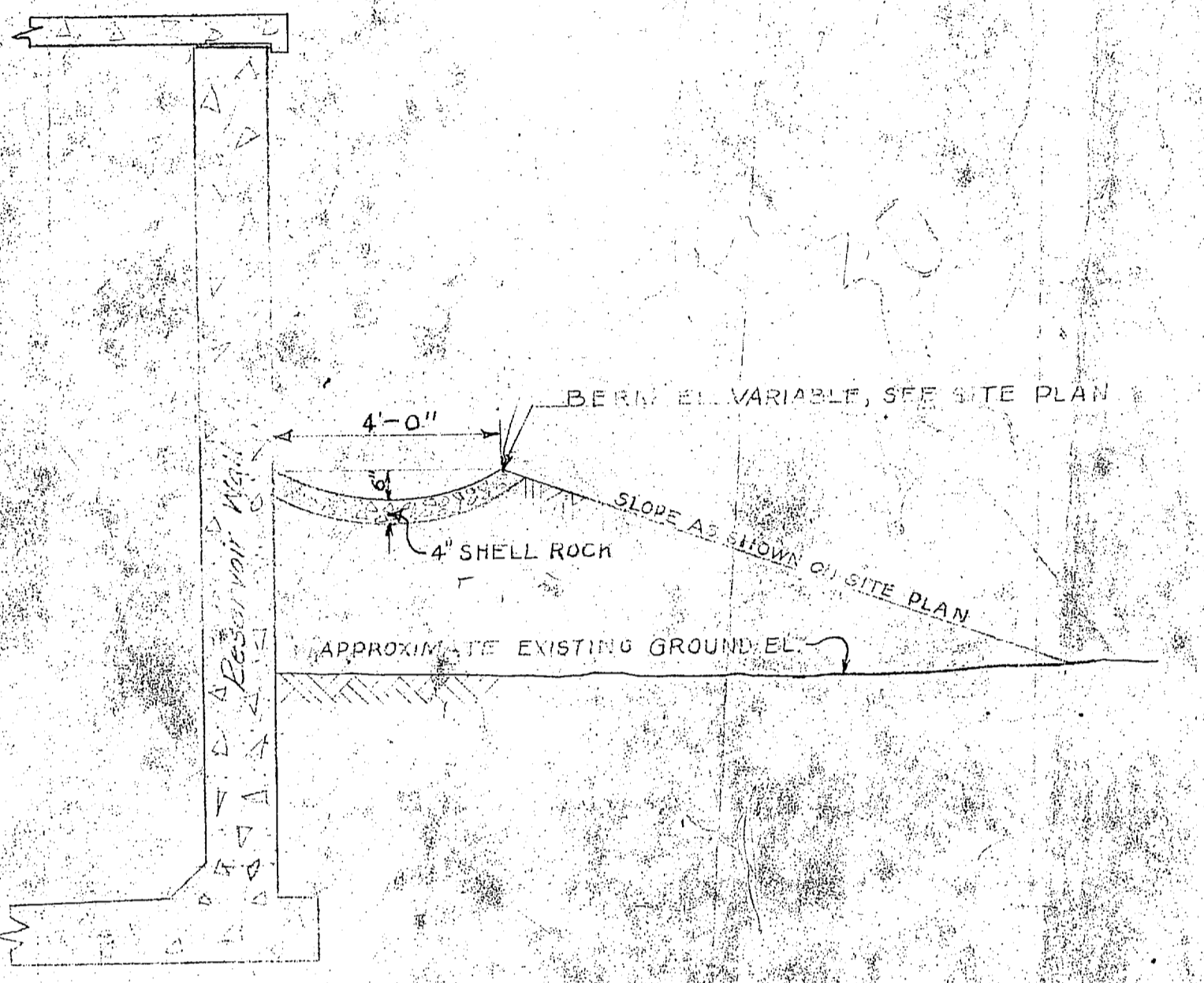
VENT SECTION
SCALE 3/4"=1'-0"
FOR LOCATION SEE Y & D DWG. NO. 645301



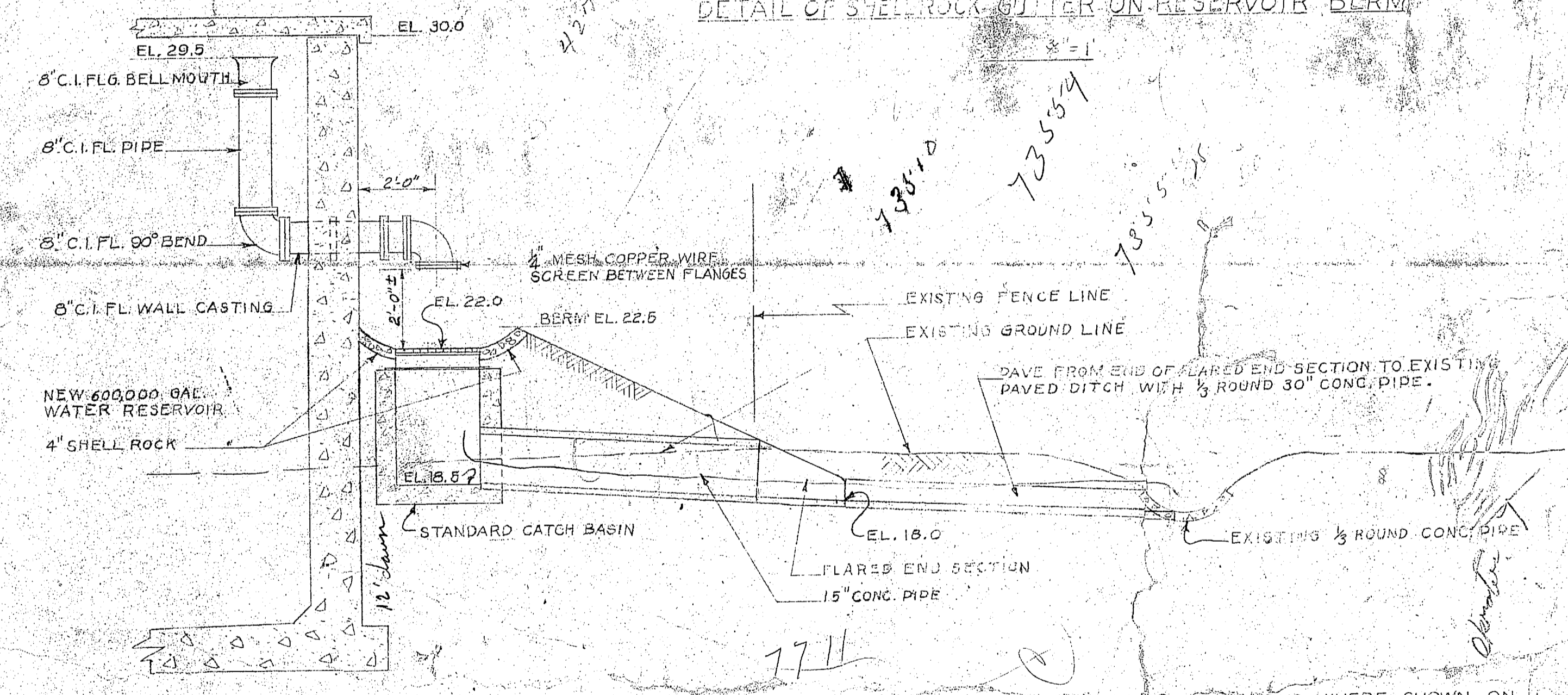
SECTION AA
SCALE 1/2"=1'-0"



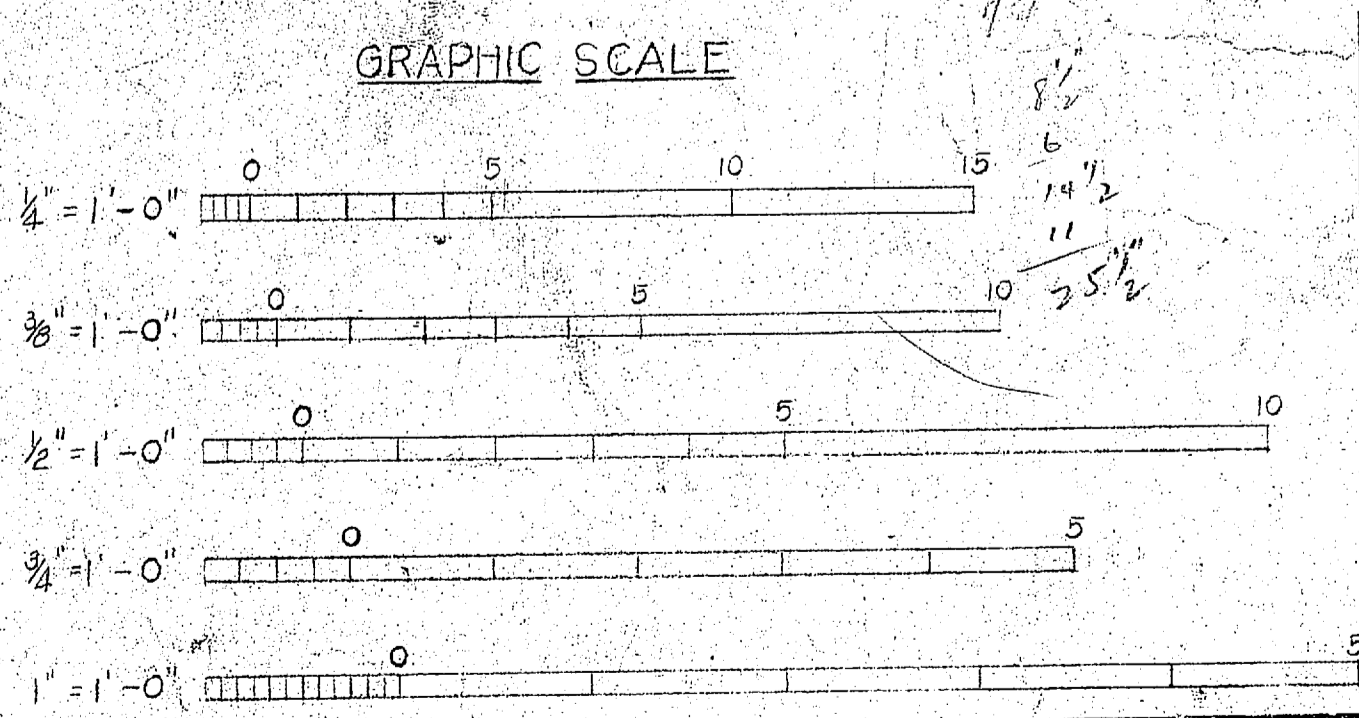
DETAIL OF VALVE STEM SUPPORT
SCALE 1"=1'-0"



DETAIL OF SHELL ROCK GUTTER ON RESERVOIR BERM

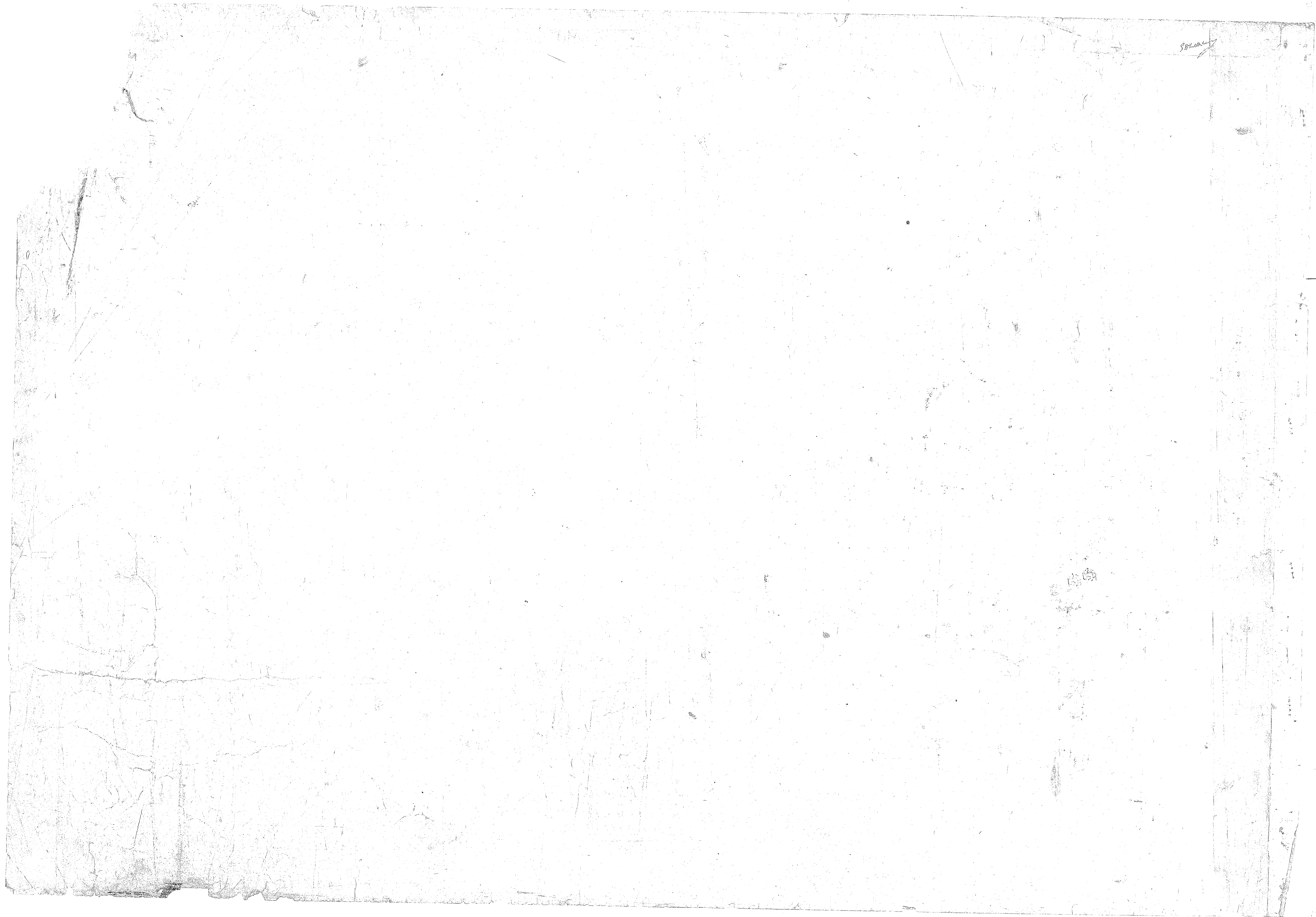


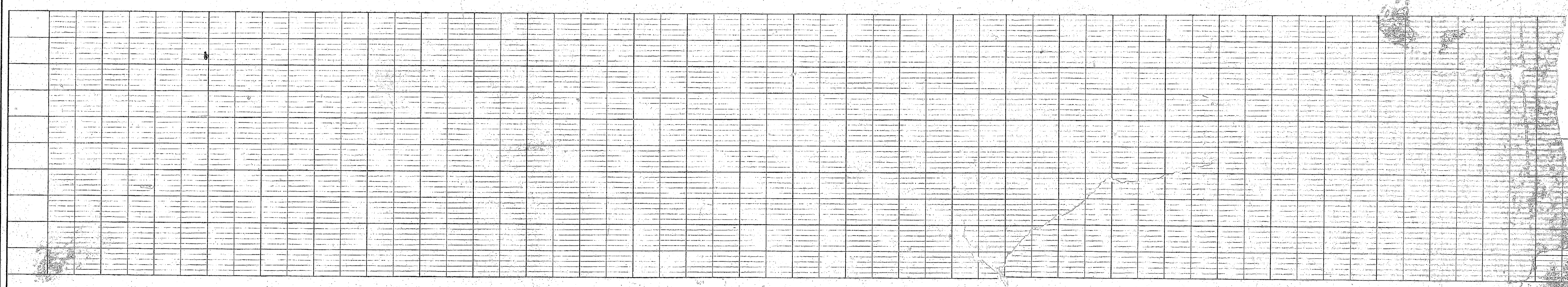
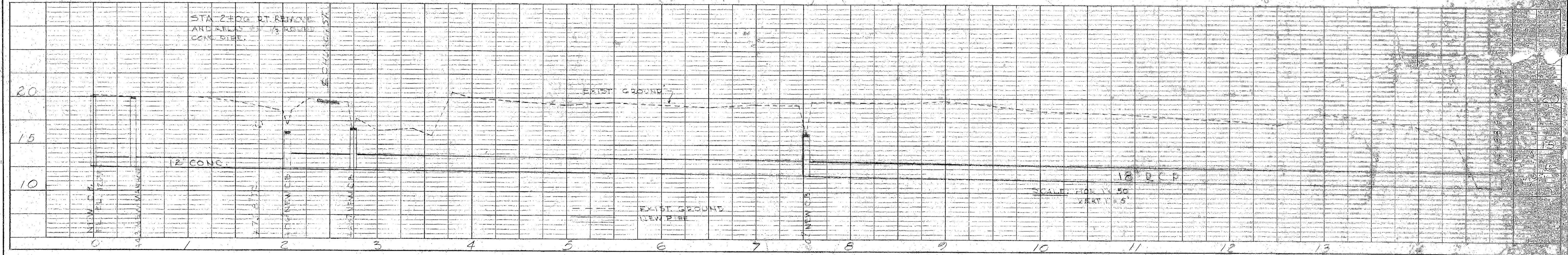
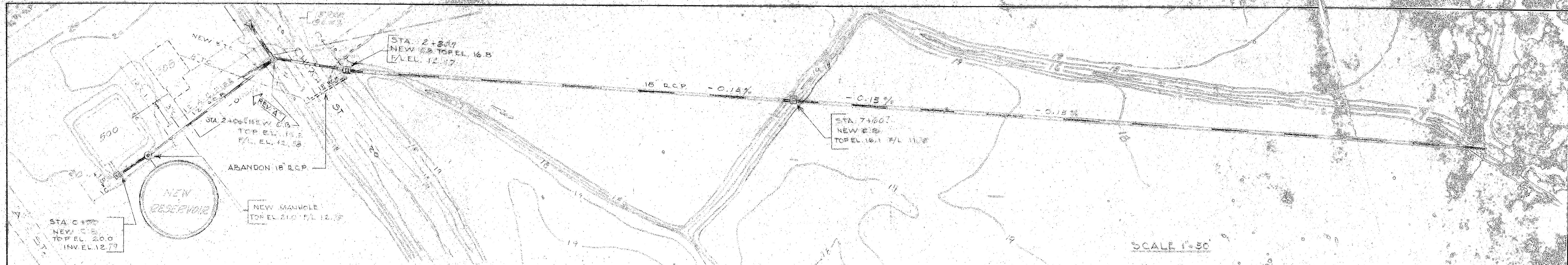
**DETAIL OF RESERVOIR OVERFLOW
AND DRAINAGE**
SCALE 3/8"=1'



NOTE: DIMENSIONS & ELEVATIONS WHERE SHOWN ON DRAWINGS IN FIGURES SHALL BE USED IN PREFERENCE TO SCALED MEASUREMENTS.

REVISION	DATE	APPD.	DESCRIPTION	BY
P W DRAWING NO. 10205				
MARINE CORPS BASE CAMP LEJEUNE, N. C.				
EXPANSION WATER TREATMENT FACILITIES CAMP GEIGER				
MISCELLANEOUS PIPING DETAILS				
APPROVED			DATE	
PUBLIC WORKS OFFICER				
APPROVED FOR BUREAU OF YARDS & DOCKS			SCALE GRAPHIC REC 41919	
DATE			SHEET 7 OF 9 NOV 83255	
THE QUARTERMASTER GENERAL OF THE MARINE CORPS			DPWO FOR CHIEF OF BUREAU	
DATE			Y & D DRAWING NO. 645305	

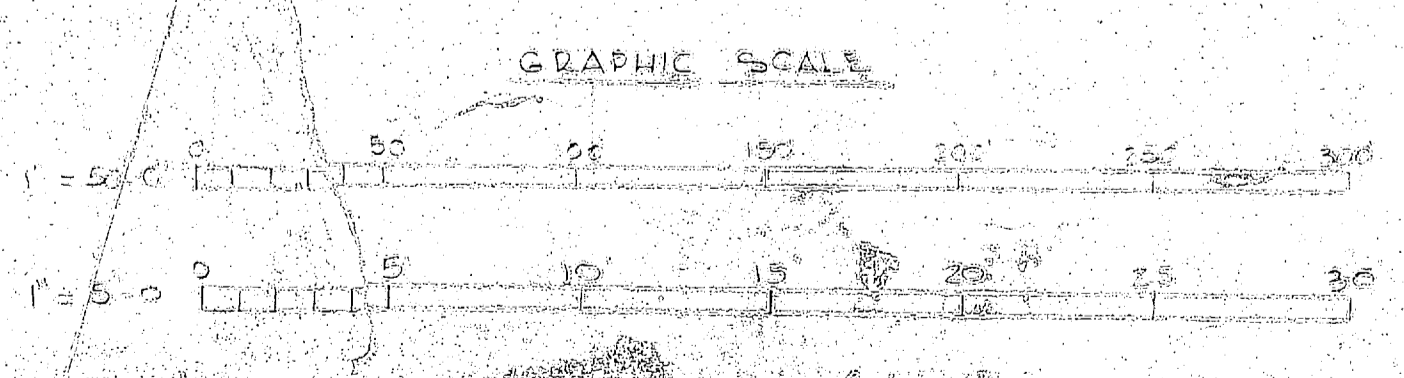




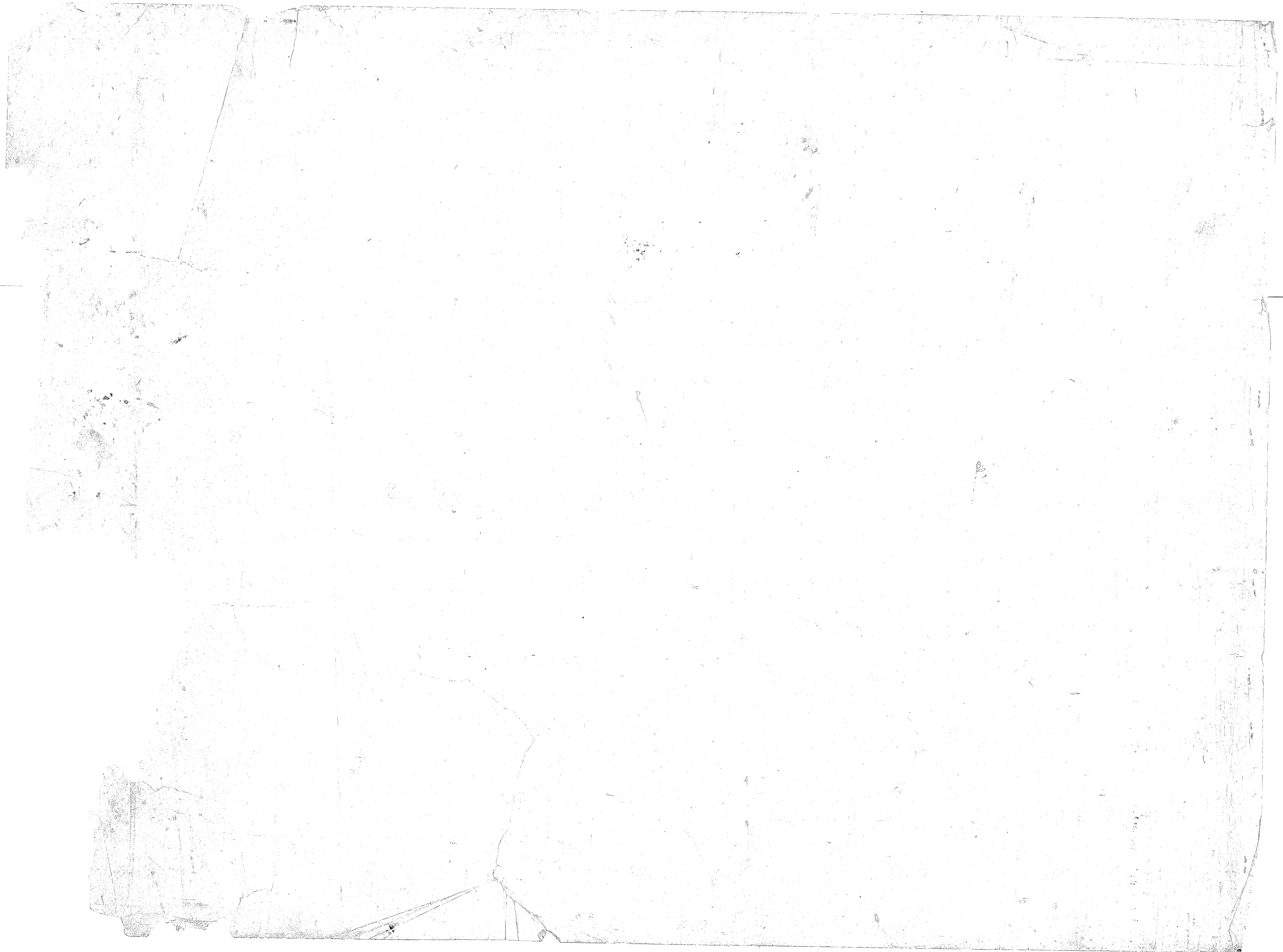
LEGEND

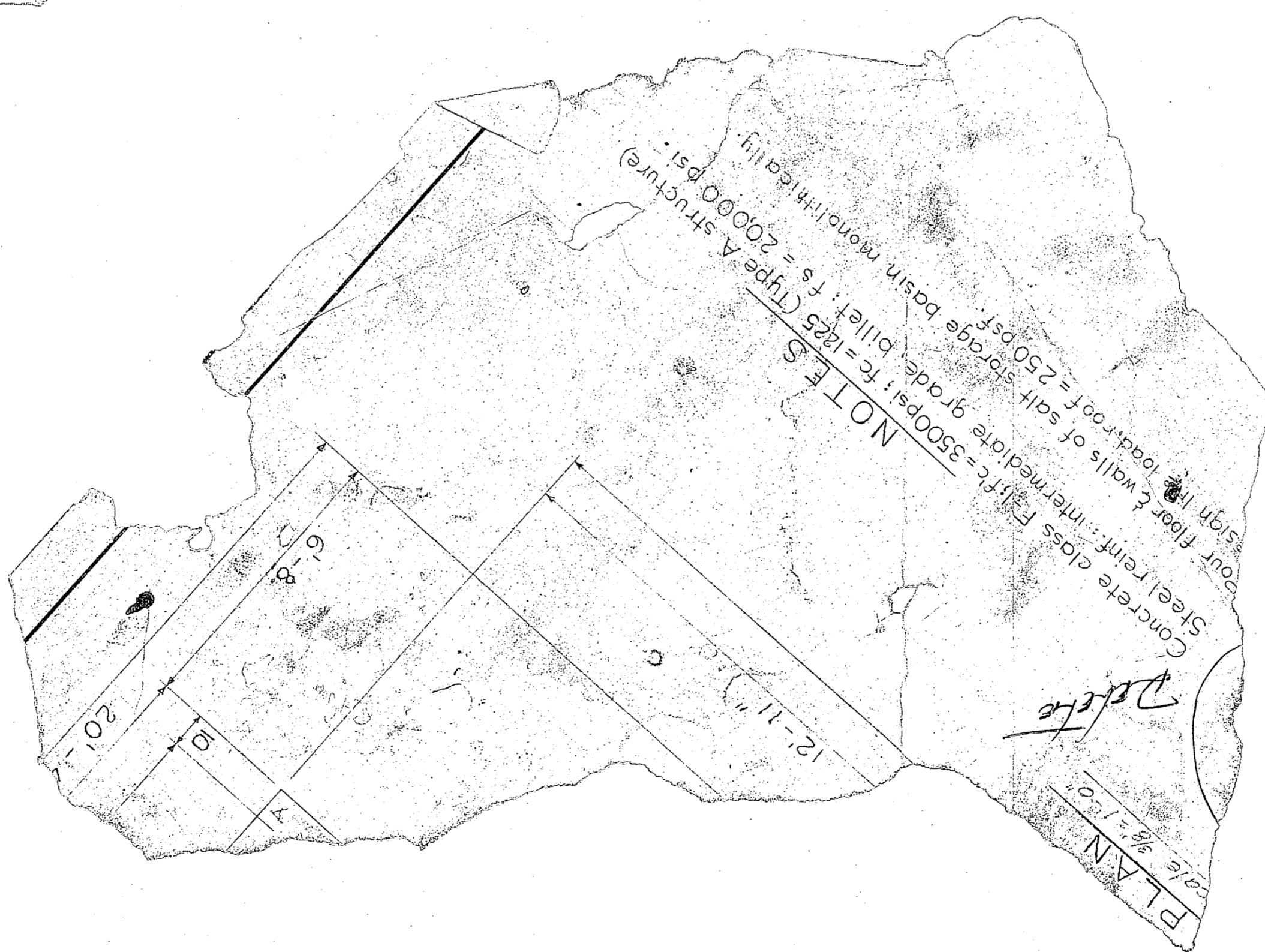
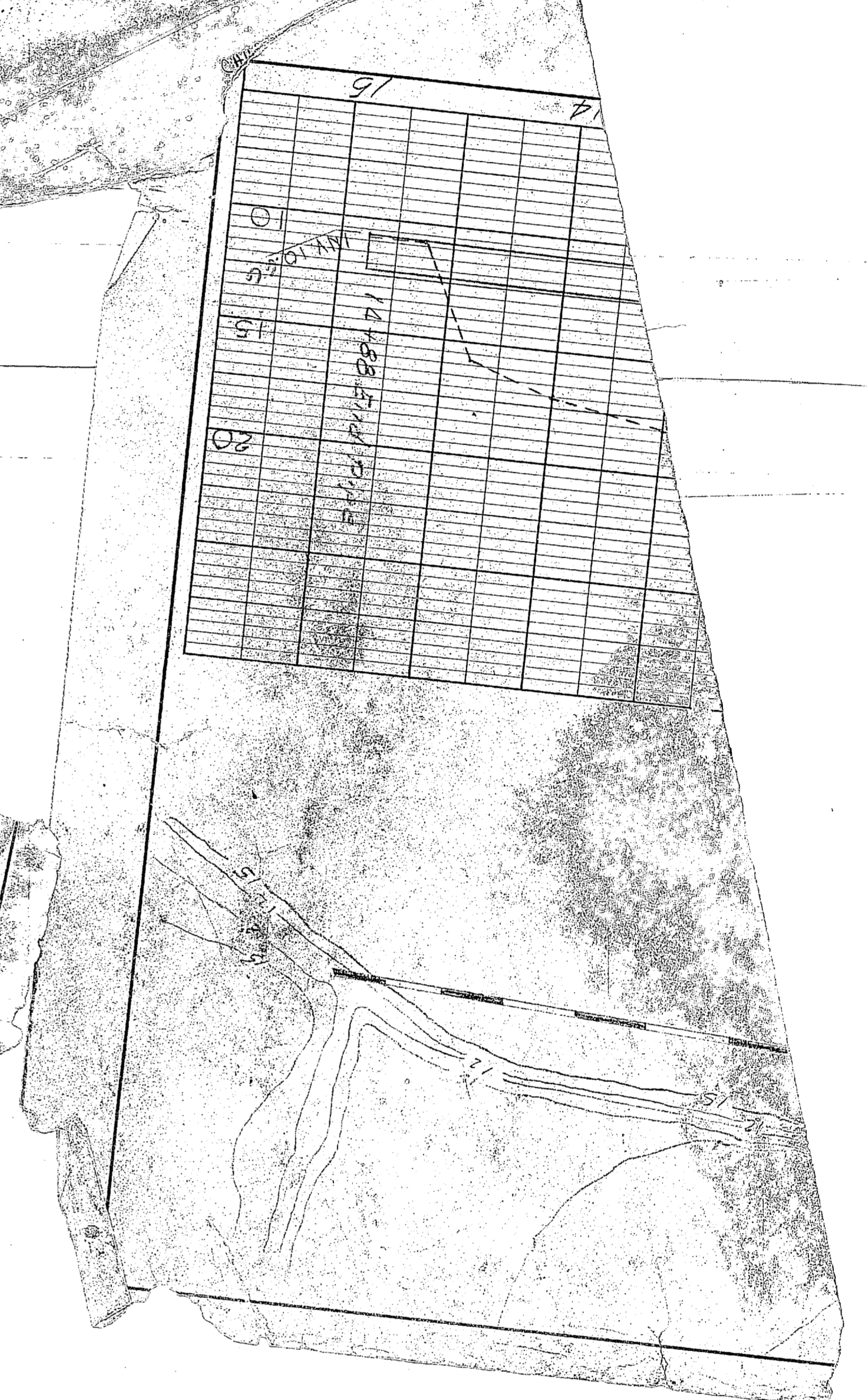
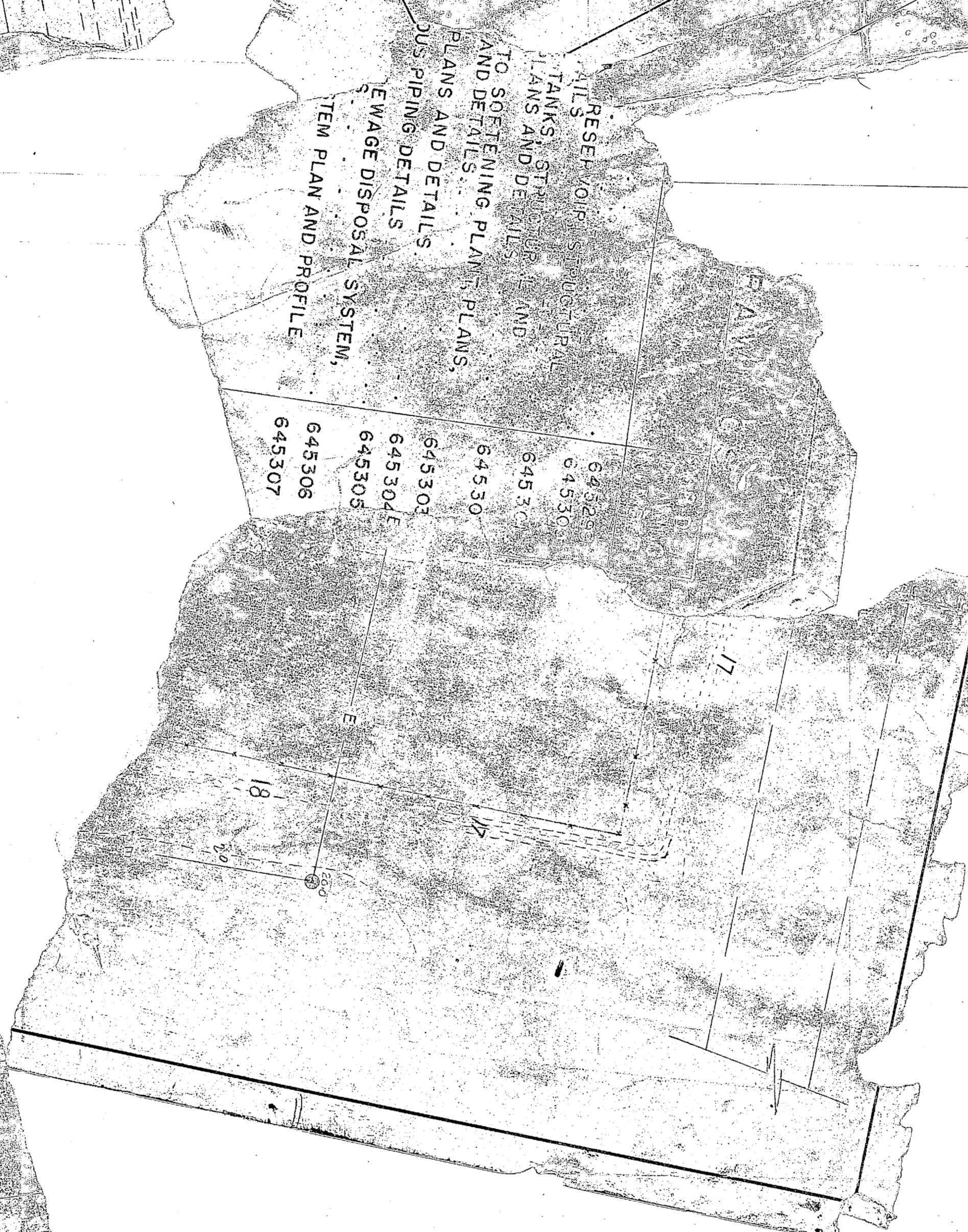
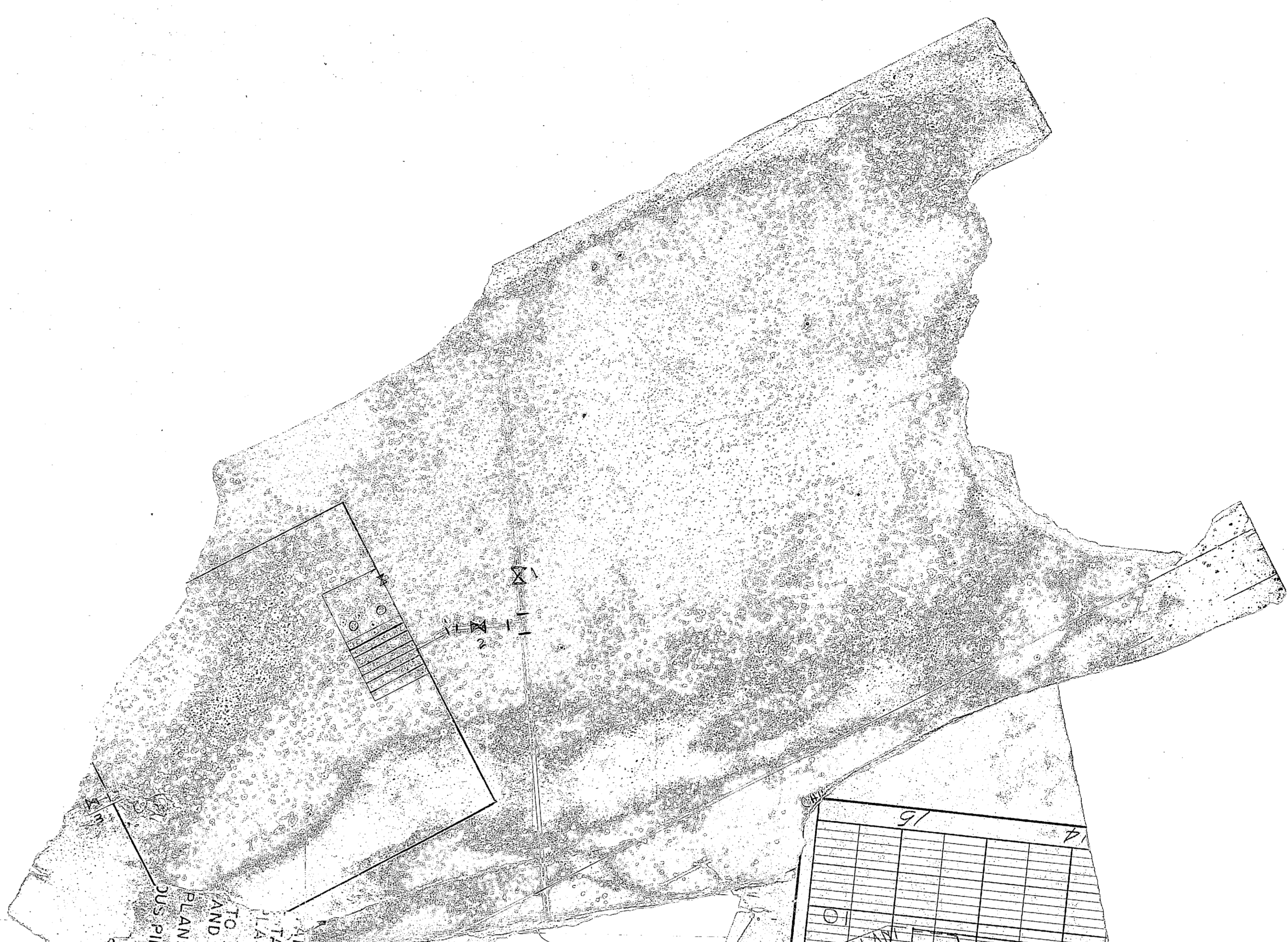
- NEW STORM SEWER
- NEW STANDARD CATCH BASIN
- NEW STANDARD MANHOLE
- EXIST. WATER PIPE
- EXIST. FACILITIES
- EXIST. CONTOURS
- NEW RESERVOIR

NOTE: DIMENSIONS & ELEVATIONS WHEN SHOWN ON DRAWINGS IN FIGURES SHOULD BE USED IN PREFERENCE TO SCALED MEASUREMENTS.



REVISION DATE	APPROVED	DESCRIPTION
P.W. DRAWING NO.		MARINE CORPS BAS
10207		CAMP GEIGUE, N. C.
DESIGNER		EXPANSION WATER TREATMENT FAC.
DRW. BY		CAMP GEIGER
CHECKED BY		DRAINAGE OUTFALL SYST.
SURV. BY		PLAN & PROFILE.
IN CHARGE		
SATISFACTORY TO		PUBLIC WORKS OFFICER
APPROVED FOR BUREAU OF YARDS & DOCKS		SCALE 1" = 50'
		SHEET 9 OF 9
		DRAWING





RACKS N.C.		BY
TREATMENT FACILITIES GEIGER PLANS		
WORKS OFFICER	DATE	
SCALE GRAPHIC	SPEC 41919	
SHEET 2 OF 9	NOV 8 1955	
DRAWING NO. 645300		

