

1/4" = 1" = 2000'

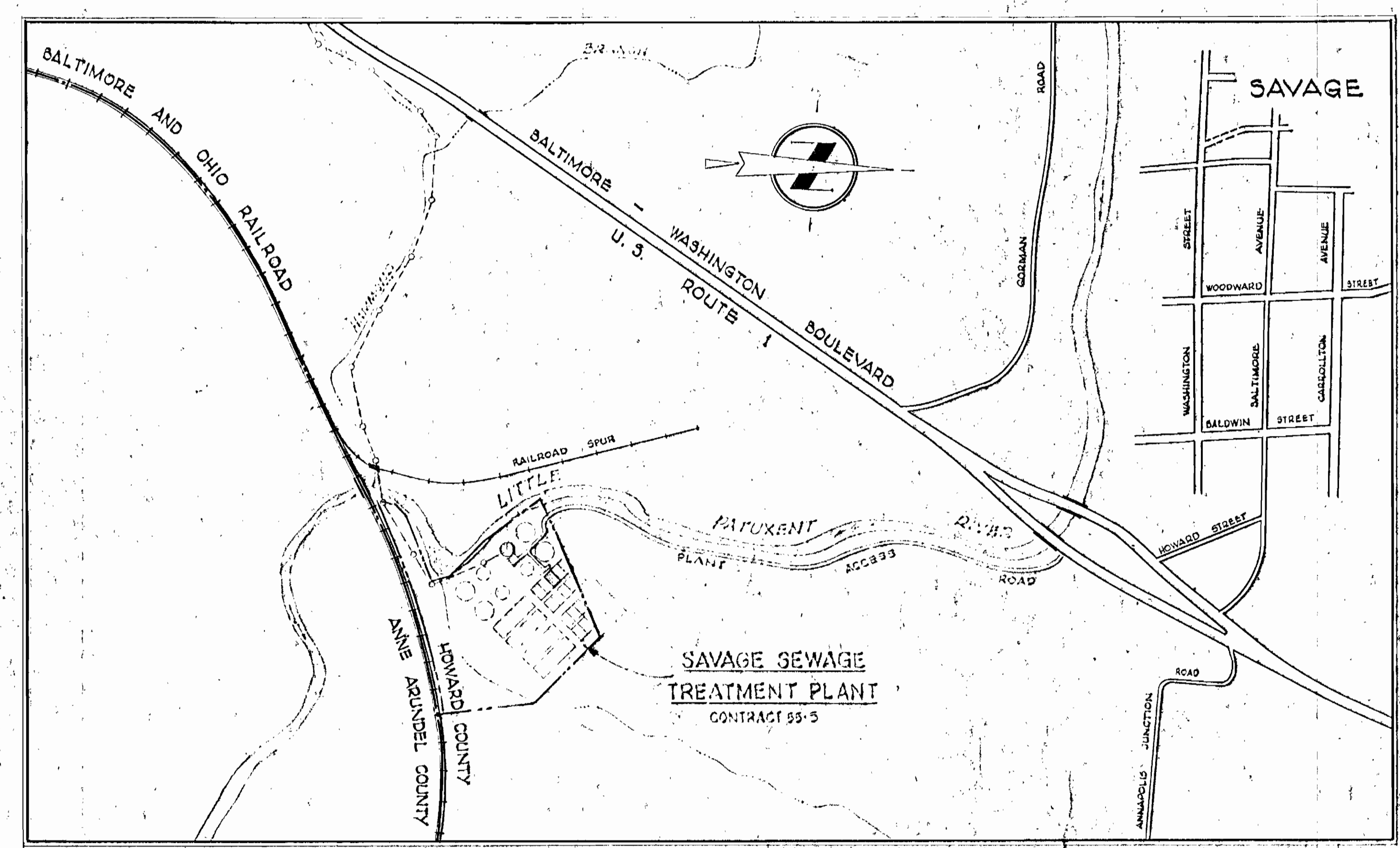
CONTRACT 55-S

SAVAGE

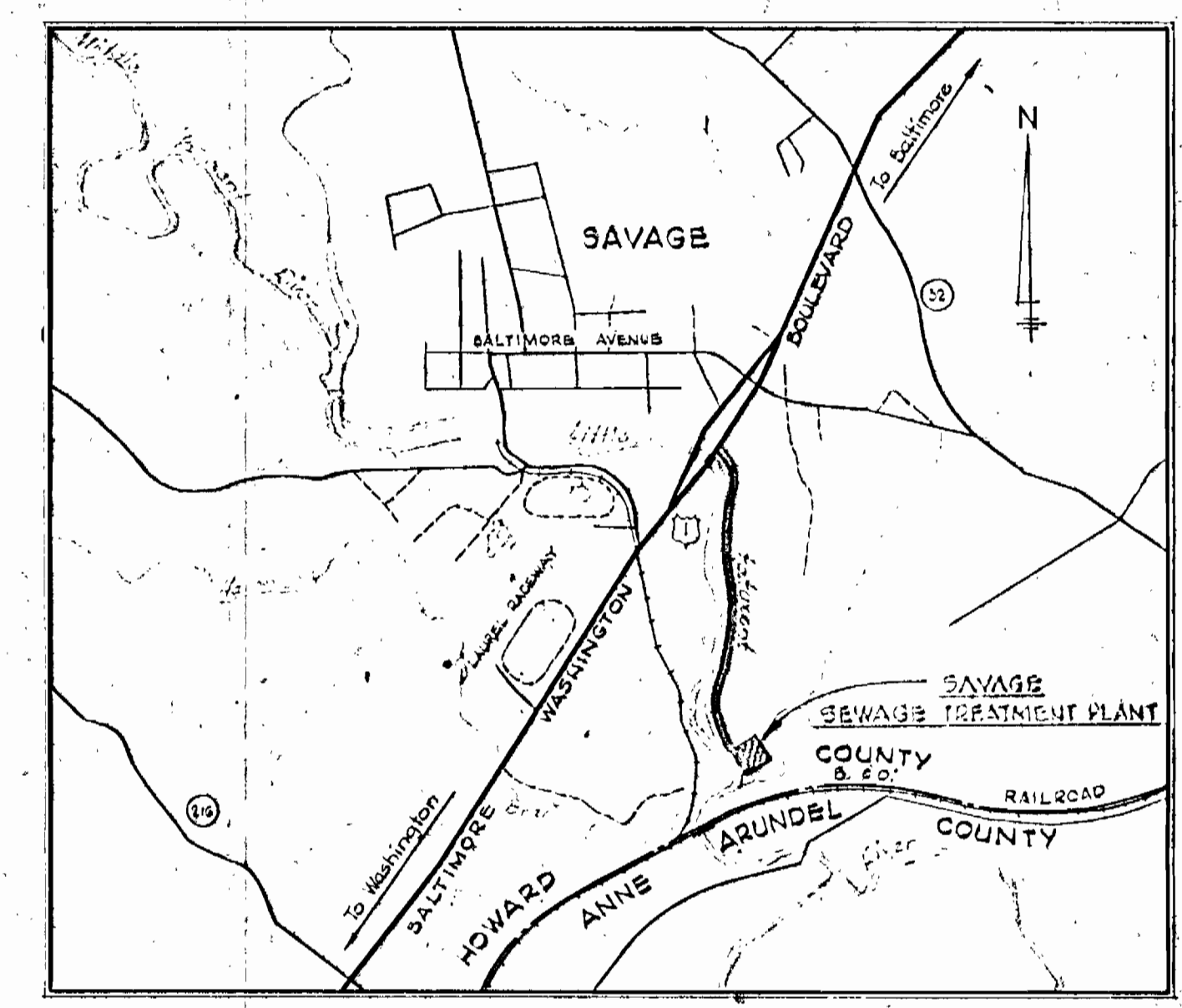
SEWAGE TREATMENT PLANT

HOWARD COUNTY METROPOLITAN COMMISSION PATUXENT SUB-DISTRICT

M40 DEPT.
Do NOT CUT !!



LOCATION MAP
Scale: 1" = 600'



VICINITY MAP
Scale: 1" = 2000'

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION
April 10, 1963
DATE

Carl W. Meyer
CHIEF ENGINEER

CONTRACT NO. 55-S

VICINITY MAP
AND LOCATION MAP

PATUXENT SUB-DISTRICT

Contract 55-S

DRAWING NO.	SCALE AS SHOWN
OF 14	

TREATMENT PLANT DESIGN DATA

Design Population - First Stage - 2,500
 Total First Unit - 10,000.

Design Flows - Average @ 100 gpcpd
 First Stage - 0.25 MGD
 Total First Unit - 1.00 MGD.

Type of Treatment - Contact Stabilization
 BOD Load - 1700 lbs./day.
 Settling Zone - Surface Rate 680 gpd/sq. ft @ 1 MGD
 Detention Time 4.25 Hours @ 1 MGD
 Aeration & Recirculation Zones - 23 cu. ft. of Tank Vol./lb BOD/day
 1000 cu. ft. of Air/lb BOD/day

Digestion Zone - 248 cu. ft. of Tank Vol./Capita
 15 cfm/1000 cu. ft. of Tank Vol.

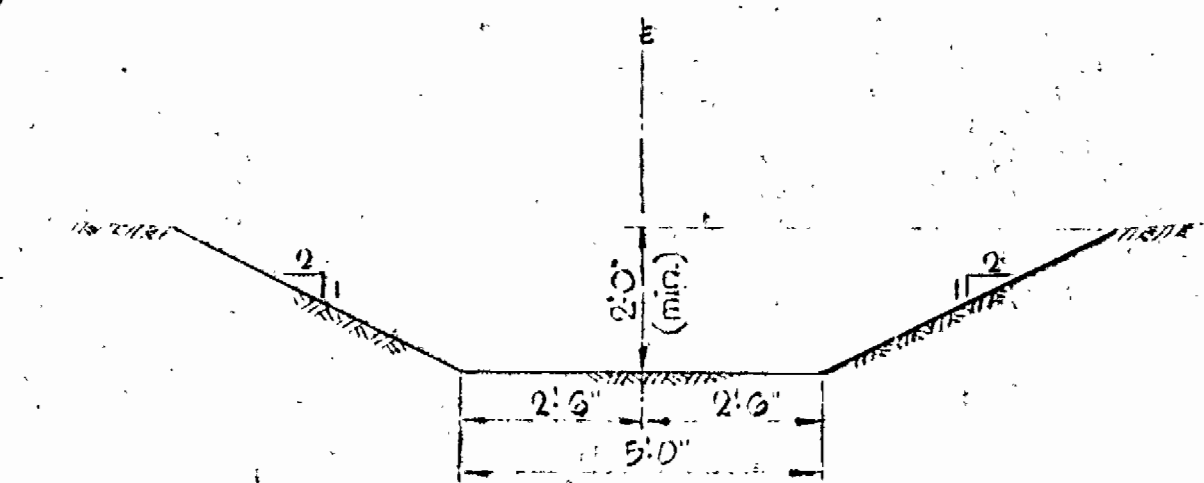
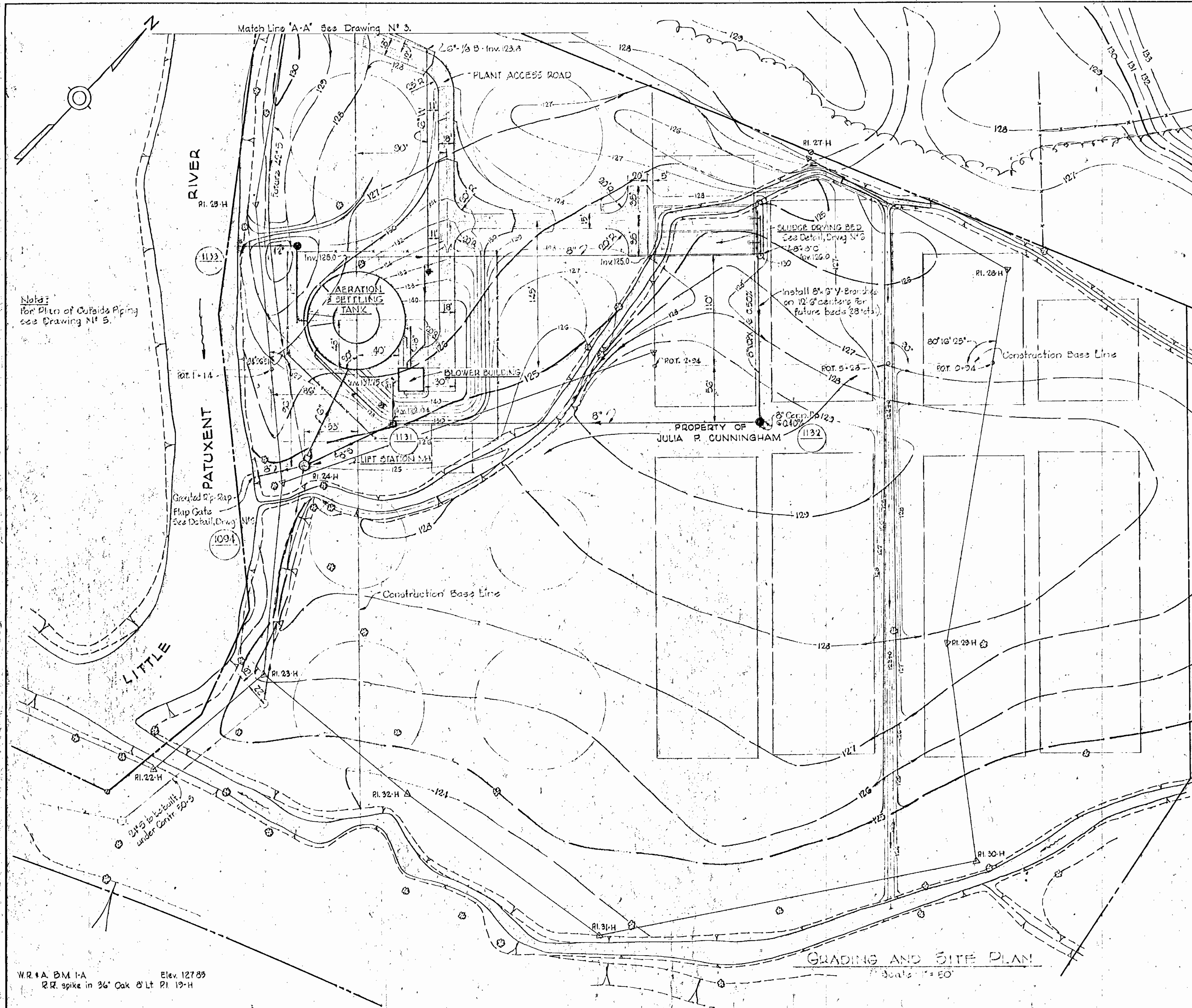
Chlorine Contact - 30 minute Detention.

Air Lifts - Designed for 100% Recirculation.

Sludge Drying Beds - 2 sq. ft./Capita.

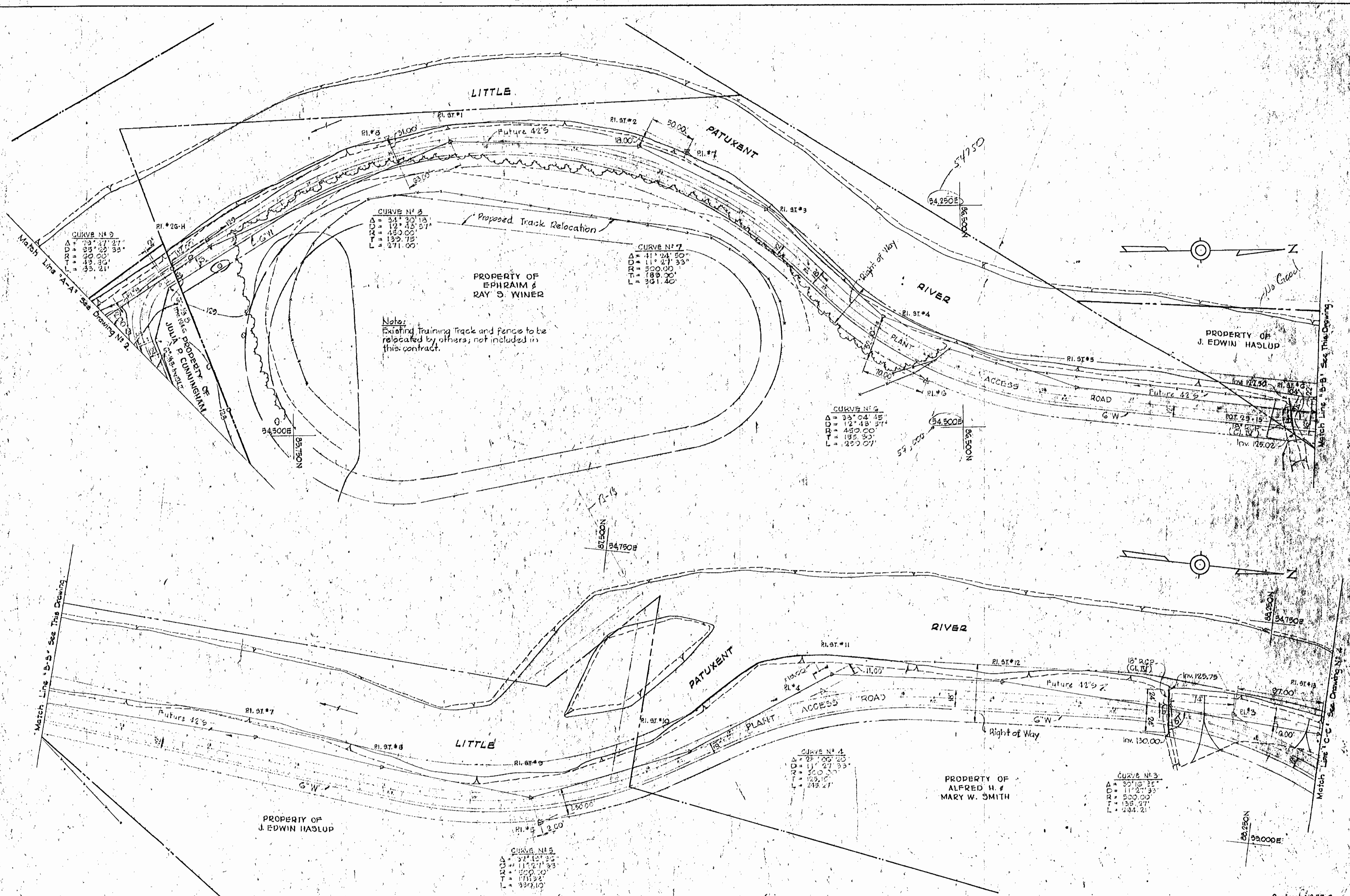
GENERAL NOTES

1. Approximate location of existing mains are shown. The Contractor shall take all necessary precautions to protect the existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately.
2. All pipe elevations shown are invert elevations.
3. The Contractor shall locate existing utilities a minimum of two weeks in advance of construction operations in vicinity of utilities.
4. The location of all valves, fittings etc. have been located in plan and dimensions shall be strictly adhered to unless otherwise directed by the Engineer in writing.
5. For all standard details see Standards bound in Specifications.
6. Block all fittings with concrete. See Standard Details.
7. All 6" & 8" W to be Class 22 CIP and to have a minimum of 3/2" cover unless otherwise noted. 1 1/2" W to be copper Type "K".
8. Before digging, pipe pushing, or doing other work near Telephone Cables, call collect any time Lexington 3-9900 Ext. 553, 554, or 555 Baltimore, Maryland.



W.R.A. BM 1-A Elev. 127.85
 R.R. spike in 36" Oak 8' Lt. RI 13-H

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION Aug. 12, 1964 DATE	CONTRACT NO. 55-S CHIEF ENGINEER	SITE PLAN	PATUXENT SUB - DISTRICT	Contract No. 55-5	
					DRAWING NO. 2 OF 14	SCALE AS SHOWN



WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 1304 ST. PAUL ST.
 BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION
 April 10, 1963
 DATE
 Chief Engineer

CONTRACT NO. 55-S

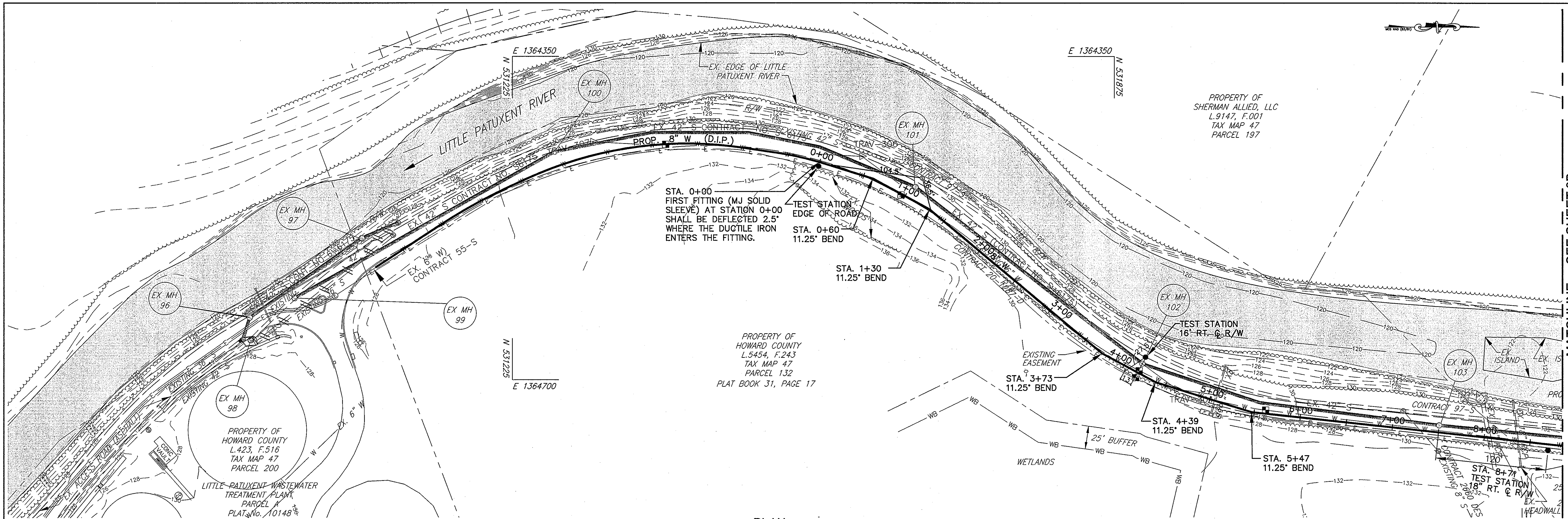
PLAN OF
 ACCESS ROAD

PATUXENT SUB-DISTRICT

DRAWING
 NO. 3
 OF 14

SCALE
 1" = 50'

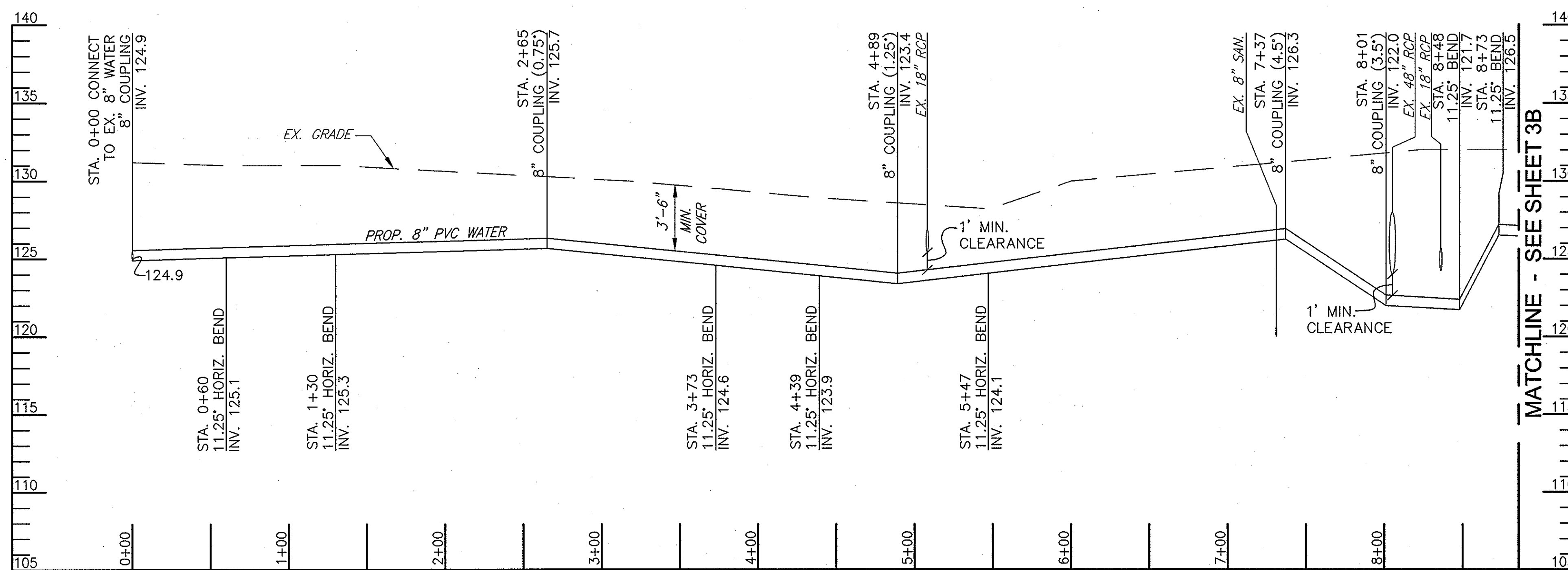
Contract No. 55-S



PLAN

1"=50'

ITEMS	QUANTITIES ESTIMATED	AS-BUILTS		MANUFACTURER/SUPPLIER
		QUANTITIES	TYPE	
8" DUCTILE IRON	515 LF	515 LF	515 LF	
8" PVC C900	3320 LF	3280 LF	DR-18	JM EAGLE
6" PVC C900	X	20 LF	DR-18	JM EAGLE
8" GATE VALVE	1 EACH	1 EACH	R.S.O.R.	MUELLER CO.
FIRE HYDRANT	1 EACH	1 EACH	4.5" ORANGE FIRE HYDRANT	MUELLER CO.



PROFILE

HORIZONTAL: 1"=50'
VERTICAL: 1"=5'

NOTE:

1. ALL WATER MAINS SHALL BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED.
2. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
5. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
7. FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATIONS TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE AWWA STANDARD C900 FOR PVC PRESSURE PIPE SHALL BE SUBMITTED WITH THE PIPE MATERIAL CERTIFICATIONS OR SHOP DRAWINGS PRIOR TO APPROVAL OF THE MATERIAL FOR USE. THE TEST RECORDS SHALL BE FOR THE PIPE TO BE INSTALLED UNDER THIS CONTRACT. ALL PVC PIPE SHALL CONTAIN MARKINGS TO ALLOW CROSS REFERENCING OF THE PIPE SUPPLIED TO THE TEST RECORDS RECEIVED.

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. _____ EXPIRATION DATE: _____

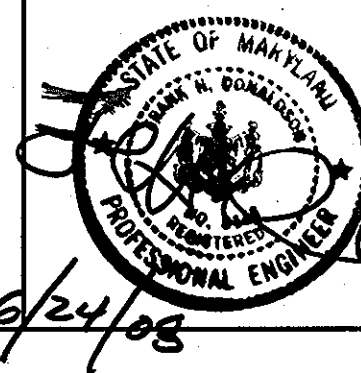
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Director of Public Works: *John C. ...* 7/3/08
Date: 7/1/08
Chief, Bureau of Engineering: *...* 7-1-08
Date: 7-1-08

Chief, Bureau of Utilities: *...* 7-1-08
Date: 7-1-08
Chief, Utility Design Division: *...* 7-1-08
Date: 7-1-08

Patton Harris Rust & Associates, Inc.
Engineers, Surveyors, Planners, Landscape Architects.

PHRA
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.9900
F 410.997.9252



DES: C.H.
DRN: K.L.B.
CHK: G.C.L.
OCT. 2009

BY	NO.	REVISION	DATE
R.J.C.	AS-BUILT		08/10

**8" WATER MAIN
PLAN AND PROFILE
(REDLINE NO. 2)**

600' SCALE MAP 47 & 48 BLOCK 1843 & 1942

LITTLE PATUXENT
PARALLEL SEWER INTERCEPTOR
CAPITAL PROJECT S-6175
CONTRACT NO. 55-S
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 3A OF 14

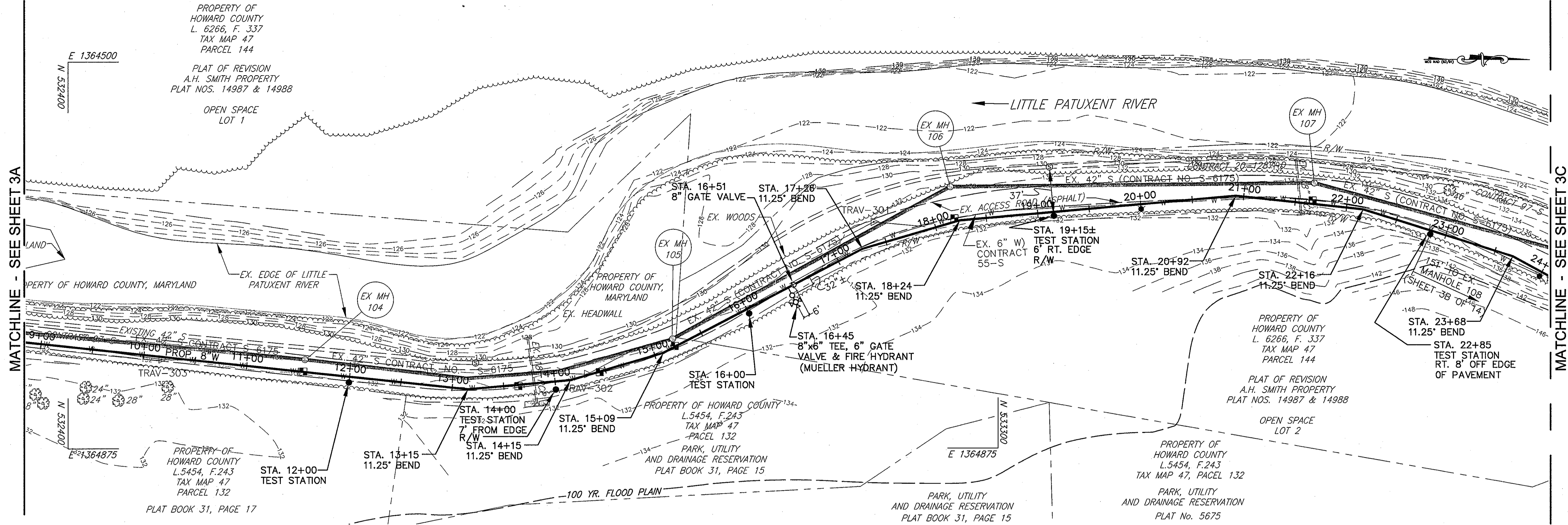
JH 12/9/10
AS-BUILT

MATCHLINE - SEE SHEET 3B

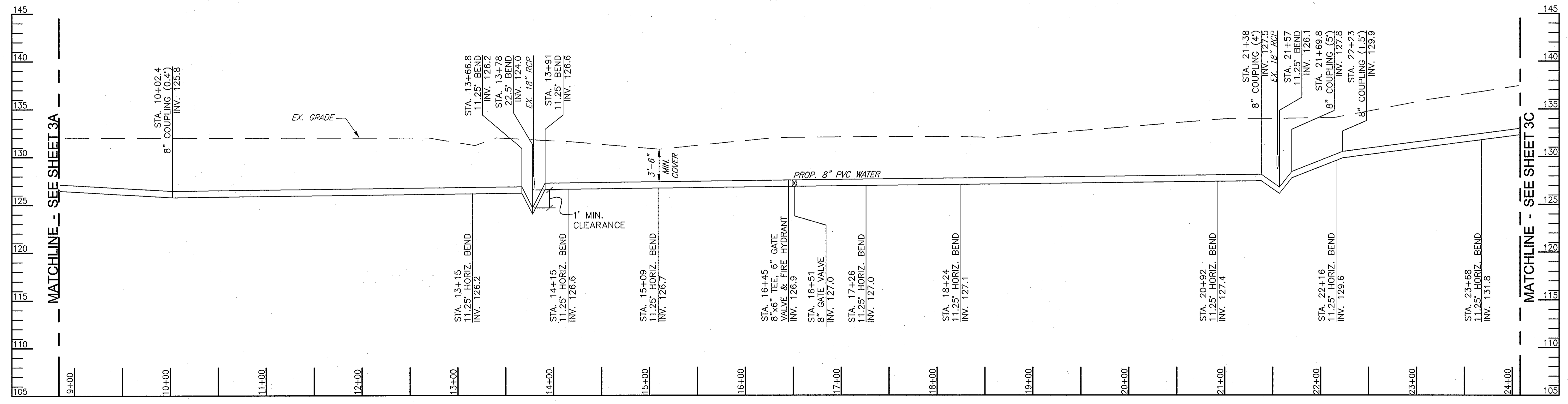
PROPERTY OF
SHERMAN ALLIED, LLC
L.9147, F.001
TAX MAP 47
PARCEL 197

PROPERTY OF
HOWARD COUNTY
L.5454, F.243
TAX MAP 47
PARCEL 132
PLAT BOOK 31, PAGE 17

PROPERTY OF
HOWARD COUNTY
L.423, F.516
TAX MAP 47
PARCEL 200
LITTLE PATUXENT WASTEWATER
TREATMENT PLANT
PARCEL A
PLAT No. 10148



PLAN
1"=50'



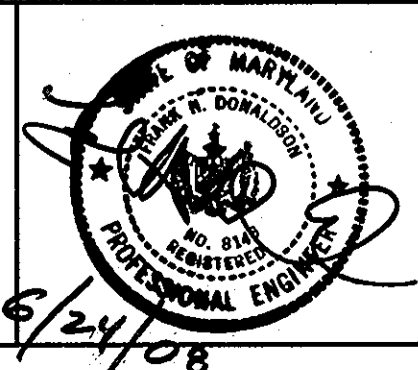
PROFILE
HORIZONTAL: 1"=50'
VERTICAL: 1"=5'

PROFESSIONAL CERTIFICATION
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LICENSE NO. _____ EXPIRATION DATE: _____

John D. [Signature] 12/9/10
AS-BUILT

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DIRECTOR OF PUBLIC WORKS: *[Signature]* 7/3/08
DATE: 7/1/08
CHIEF, BUREAU OF ENGINEERING: *[Signature]*
DATE: 7-1-08
CHIEF, BUREAU OF UTILITIES: *[Signature]* 7/2/08
DATE: 7-1-08
CHIEF, UTILITY DESIGN DIVISION: *[Signature]*
DATE: 7-1-08

Patton Harris Rust & Associates, Inc.
Engineers, Surveyors, Planners, Landscape Architects.
PHRA
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

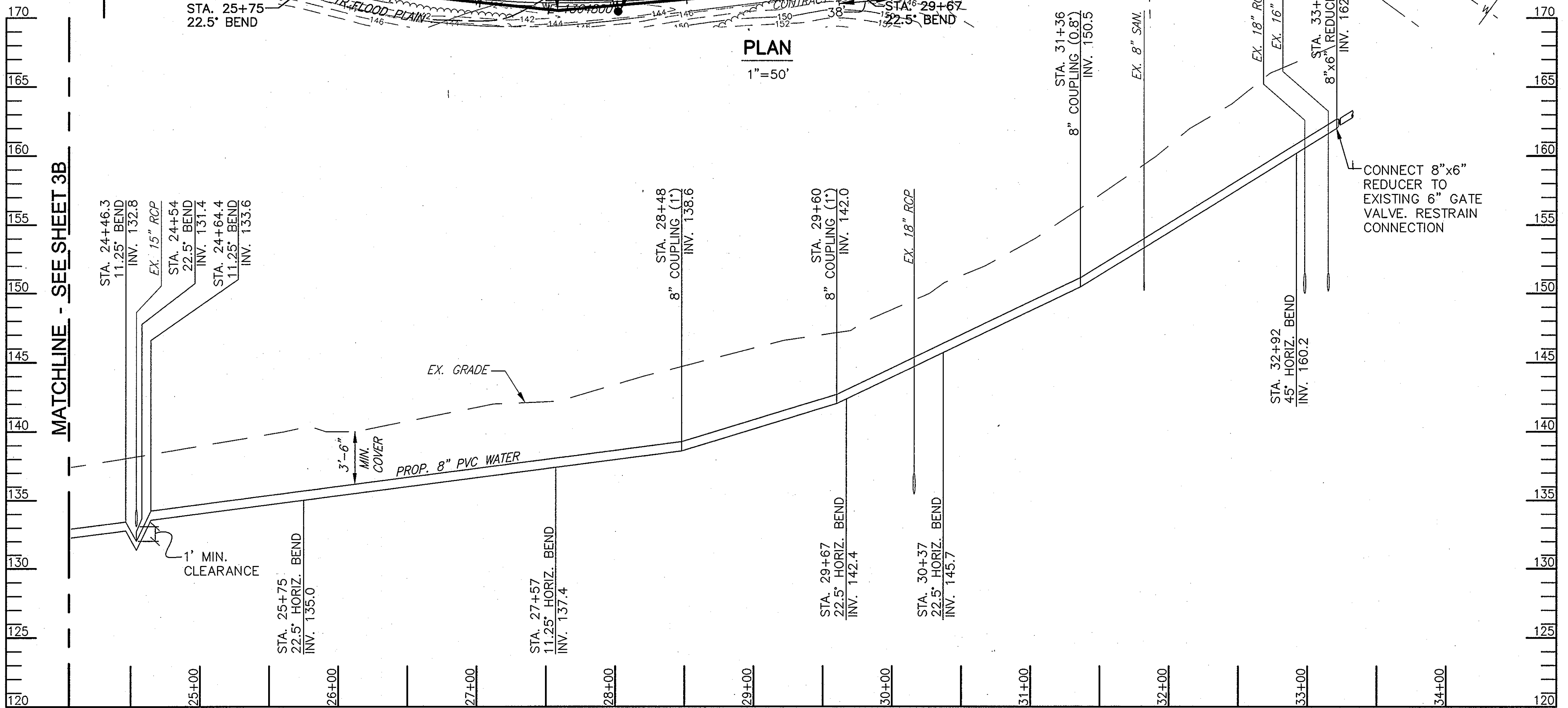
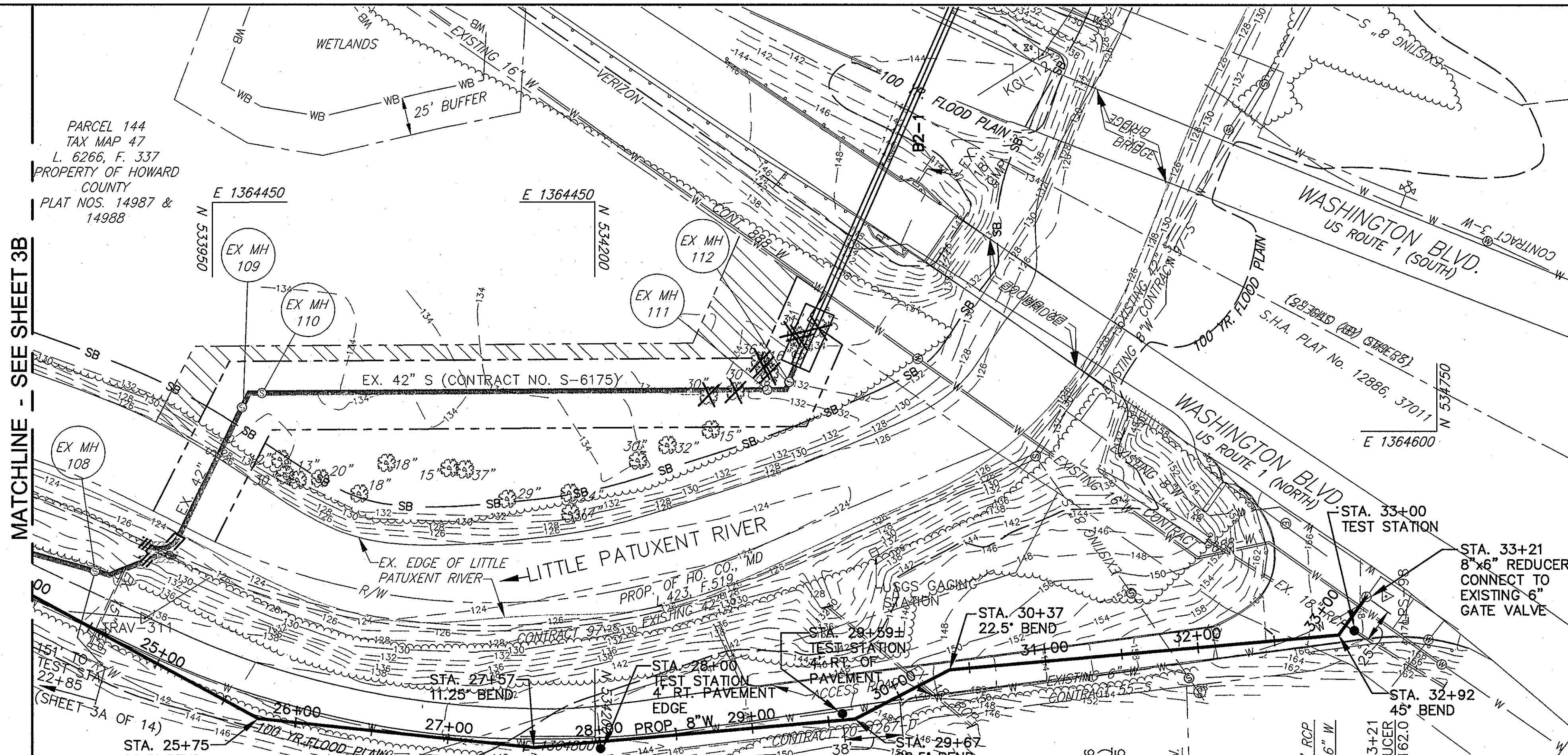


DES:	C.H.		
DRN:	K.L.B.		
CHK:	G.C.L.		
OCT, 2009	R.J.C.	AS-BUILT	08/10
BY	NO.	REVISION	DATE

8" WATER MAIN
PLAN AND PROFILE
(REDLINE NO. 2)
600' SCALE MAP 47 & 48
BLOCK 1843 & 1942

LITTLE PATUXENT
PARALLEL SEWER INTERCEPTOR
CAPITAL PROJECT S-6175
CONTRACT NO. 55-S
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE AS SHOWN
SHEET 3B OF 14

P:\project\14794\1-0\Env\Plans\Contract 1\Prop 8-inch Water Plans\03---ASBUILT---Prop.8W Plan & Profile.dwg, 12/10/2010 1:26:16 PM, TD5600.pcs



PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. _____ EXPIRATION DATE: _____

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Director of Public Works: *John G. ...* 7/1/08
Chief, Bureau of Engineering: *Richard ...* 7/1/08

Chief, Bureau of Utilities: *Steve C. ...* 7/1/08
Chief, Utility Design Division: *...* 7-1-08

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PHRA
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

Professional Engineer Seal: *6/24/08*

DES:	C.H.			
DRN:	K.L.B.			
CHK:	G.C.L.			
R.J.C.:	AS-BUILT		08/10	
OCT, 2009	BY NO.	REVISION	DATE	

**8" WATER MAIN
PLAN AND PROFILE**

600' SCALE MAP 47 & 48 BLOCK 1843 & 1942

**LITTLE PATUXENT
PARALLEL SEWER INTERCEPTOR**

CAPITAL PROJECT S-6175
CONTRACT NO. 55-S
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

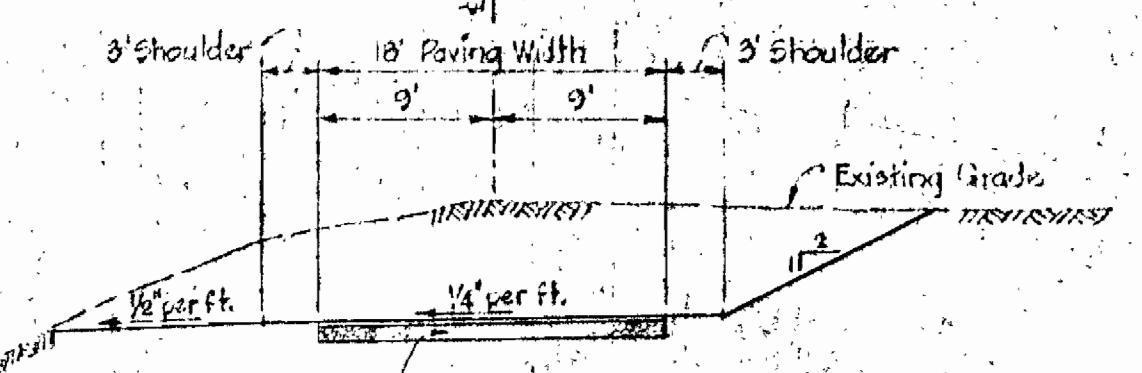
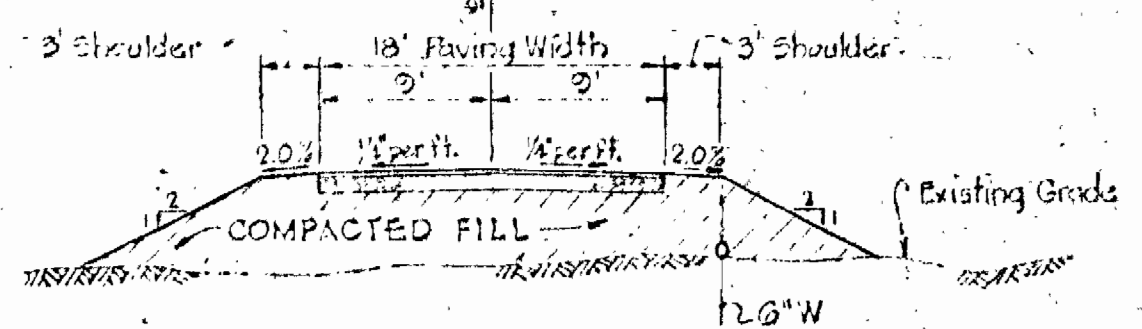
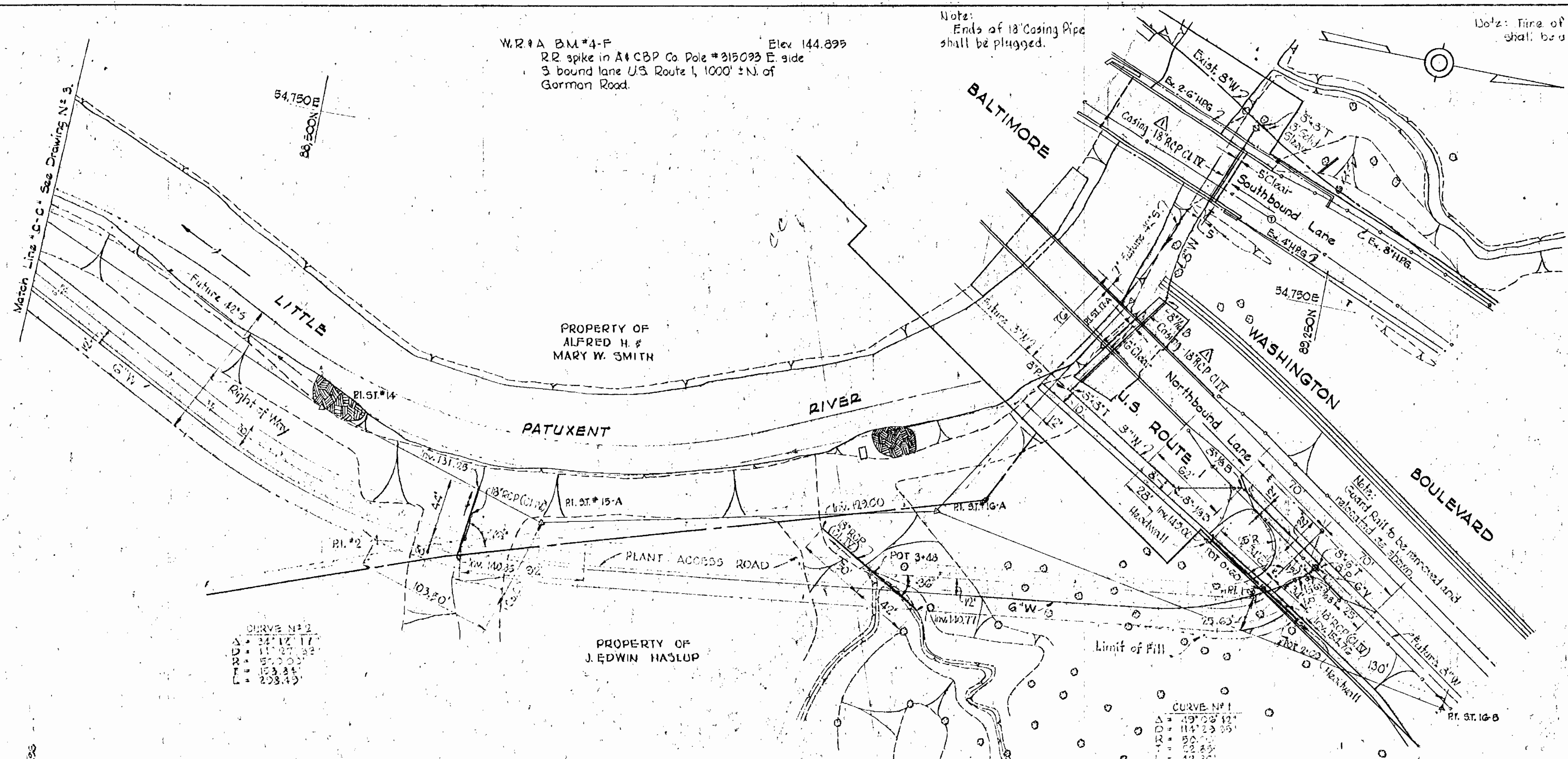
JD 12/9/10
AS-BUILT

SCALE AS SHOWN
SHEET 3C OF 14

W.R.#A BM#4-F Elev 144.895
 RR spike in A1 CBP Co. Pole #315093 E side
 3 bound lane U.S. Route 1, 1000' ± N. of
 Gorman Road.

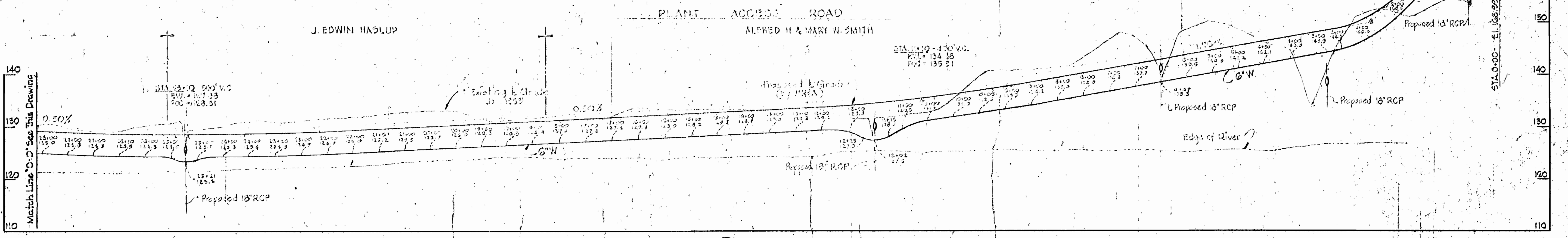
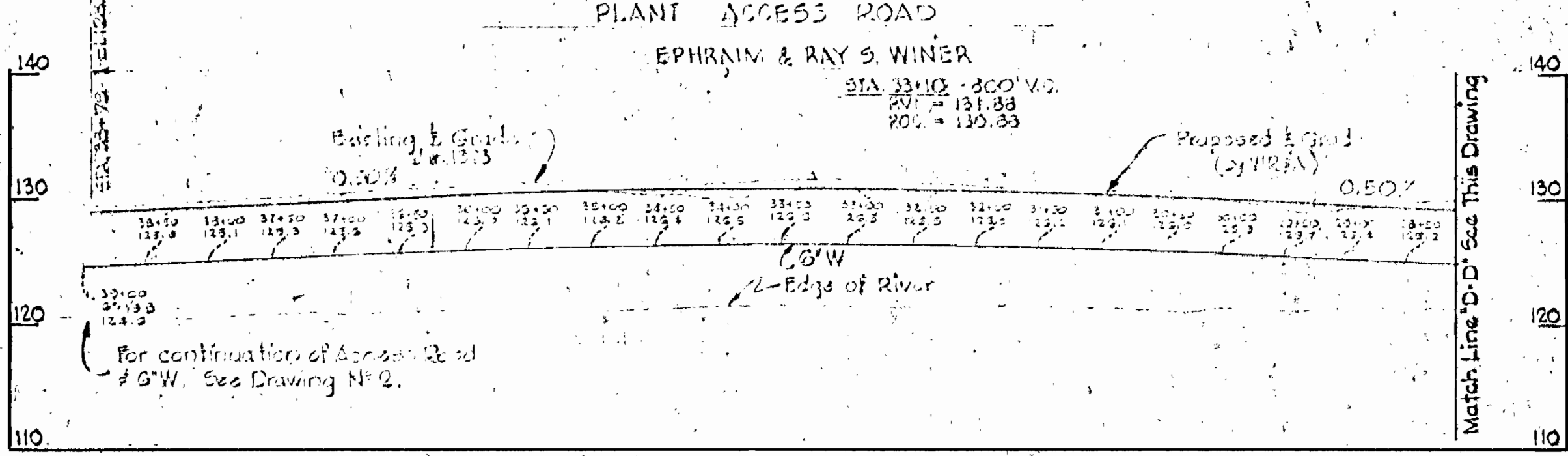
Note:
 Ends of 18" Casing Pipe
 shall be plugged.

Note: Time of completion to exist 8' W
 shall be set by the Engineer.



SURFACE TREATMENT
 1. 1/2 gal. 2-C. 1/2 gal. 1-A. 1/2 gal. 1-B. 1/2 gal. 1-C. 1/2 gal. 1-D. 1/2 gal. 1-E. 1/2 gal. 1-F. 1/2 gal. 1-G. 1/2 gal. 1-H. 1/2 gal. 1-I. 1/2 gal. 1-J. 1/2 gal. 1-K. 1/2 gal. 1-L. 1/2 gal. 1-M. 1/2 gal. 1-N. 1/2 gal. 1-O. 1/2 gal. 1-P. 1/2 gal. 1-Q. 1/2 gal. 1-R. 1/2 gal. 1-S. 1/2 gal. 1-T. 1/2 gal. 1-U. 1/2 gal. 1-V. 1/2 gal. 1-W. 1/2 gal. 1-X. 1/2 gal. 1-Y. 1/2 gal. 1-Z.

PLAN
 Scale: 1" = 50'



PROFILE
 Scale: H: 1" = 100'
 V: 1" = 10'

1	1-8-65	Casing Pipe added to 8' W.
	Date	Revision

Contract No 55-S

WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 1304 ST. PAUL ST.
 BALTIMORE, MARYLAND

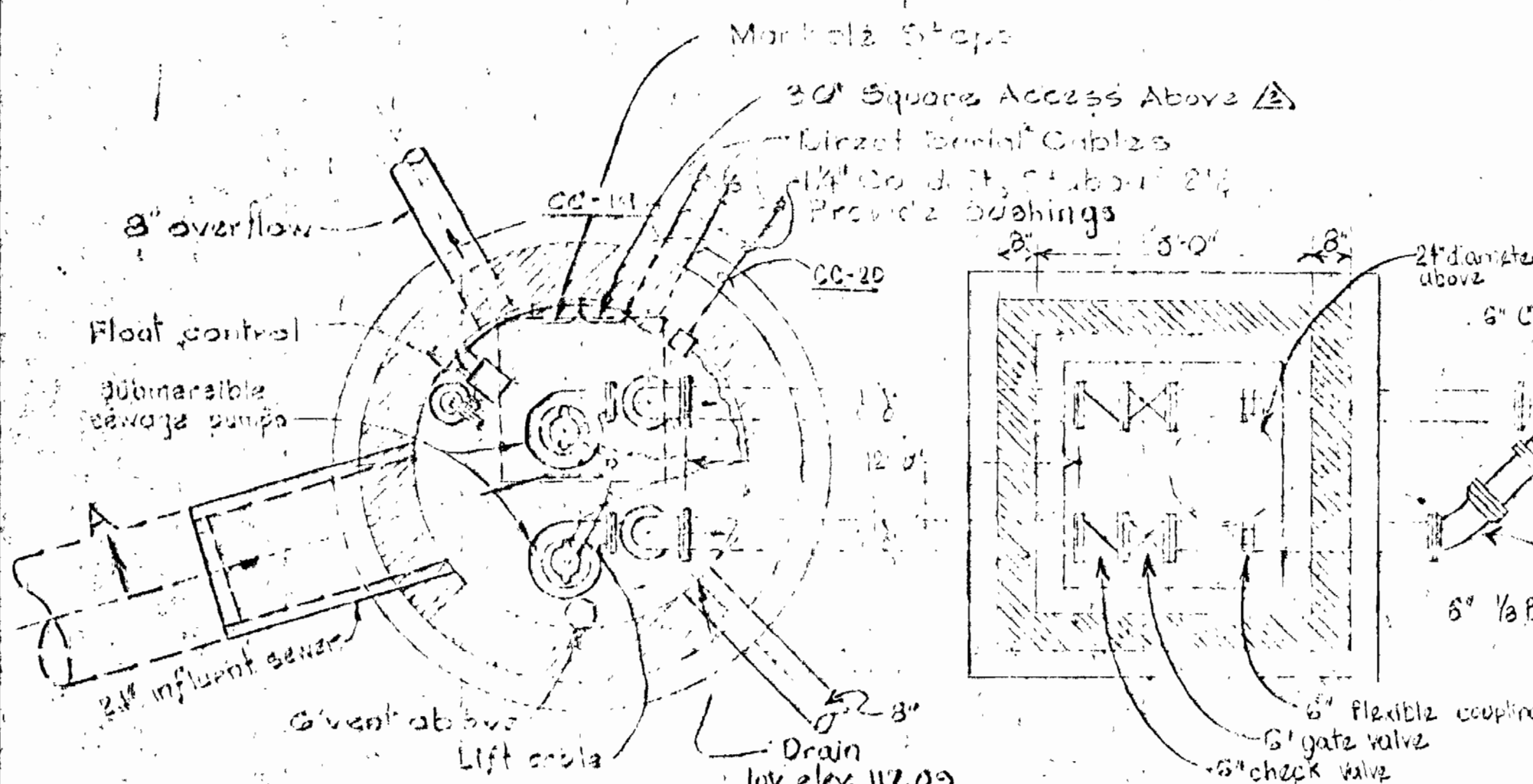
HOWARD COUNTY METROPOLITAN COMMISSION
 April 10, 1963
 DATE

CONTRACT NO. 55-S

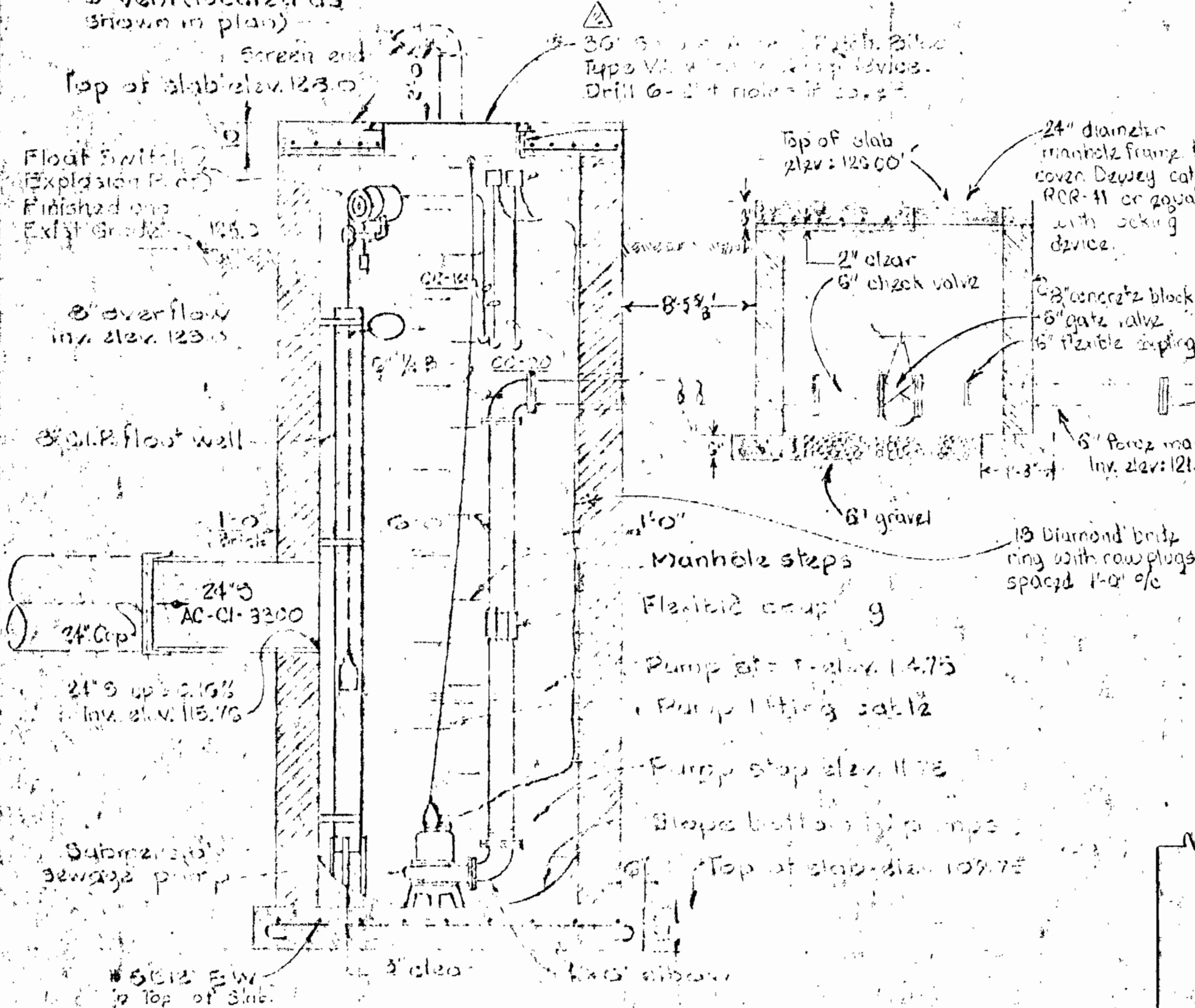
ACCESS ROAD
 PLAN AND PROFILE

PATUXENT SUB-DISTRICT

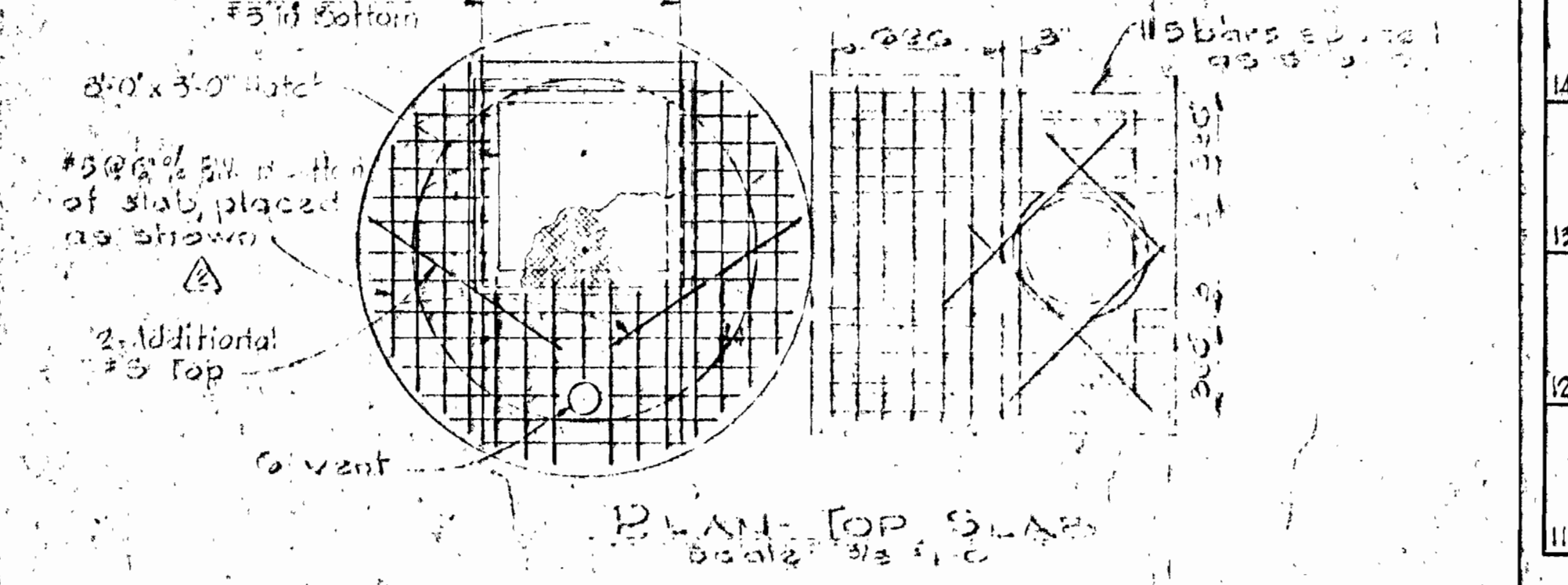
DRAWING NO. 4 OF 14
 SCALE AS SHOWN



PLAN BELOW SLAB
Scale: 1/8" = 1'-0"



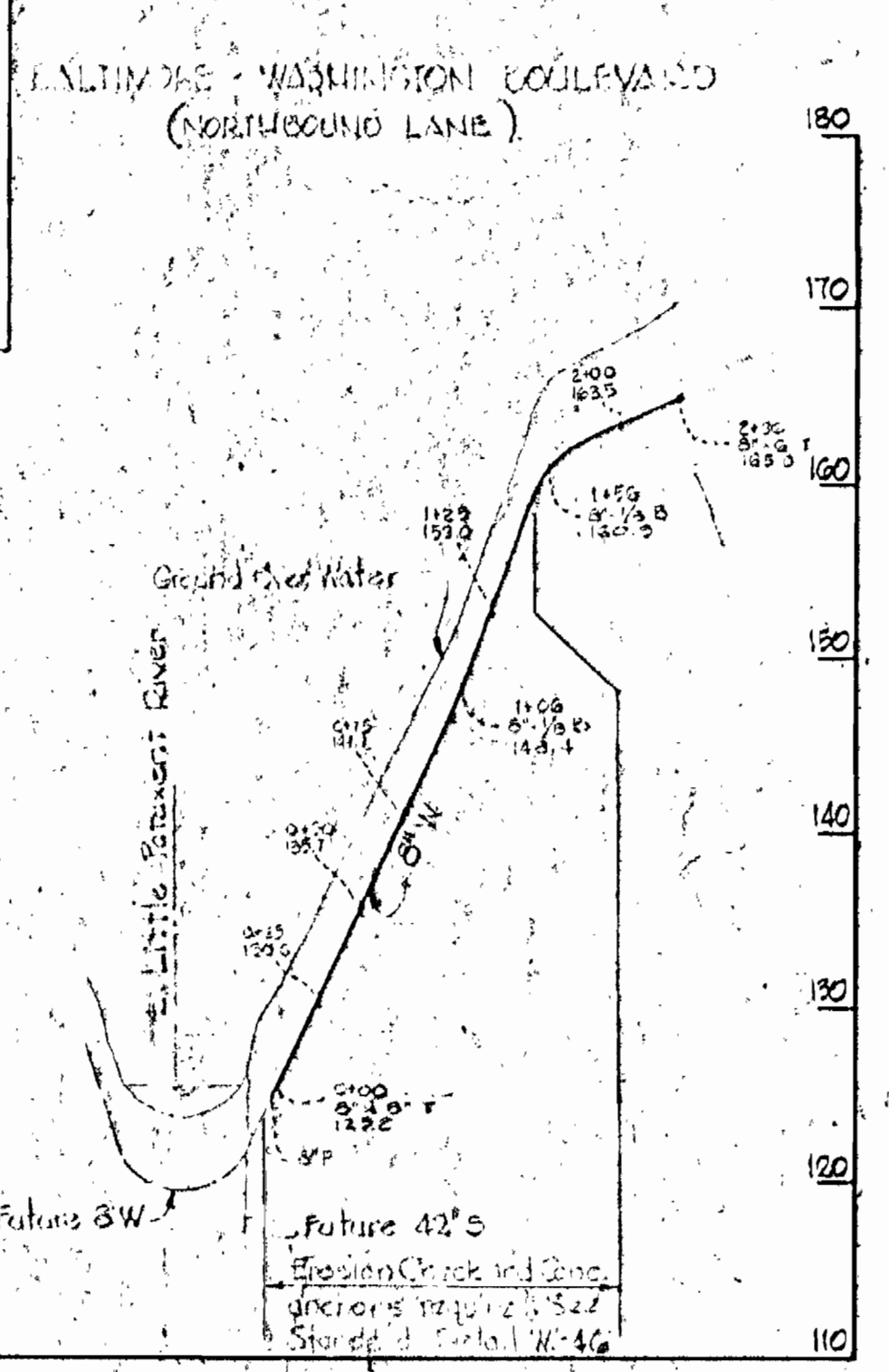
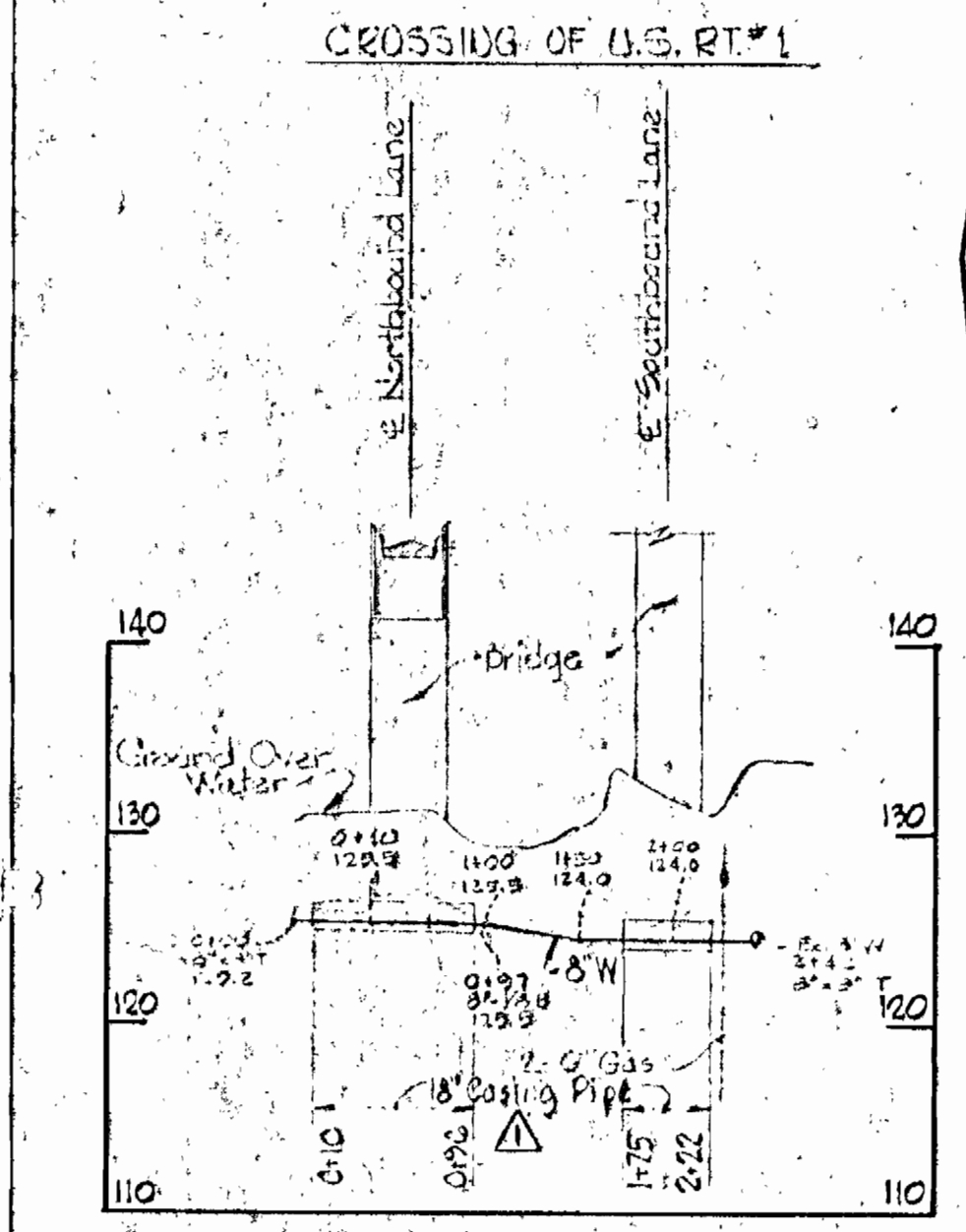
SECTION A-A
Scale: 3/8" = 1'-0"



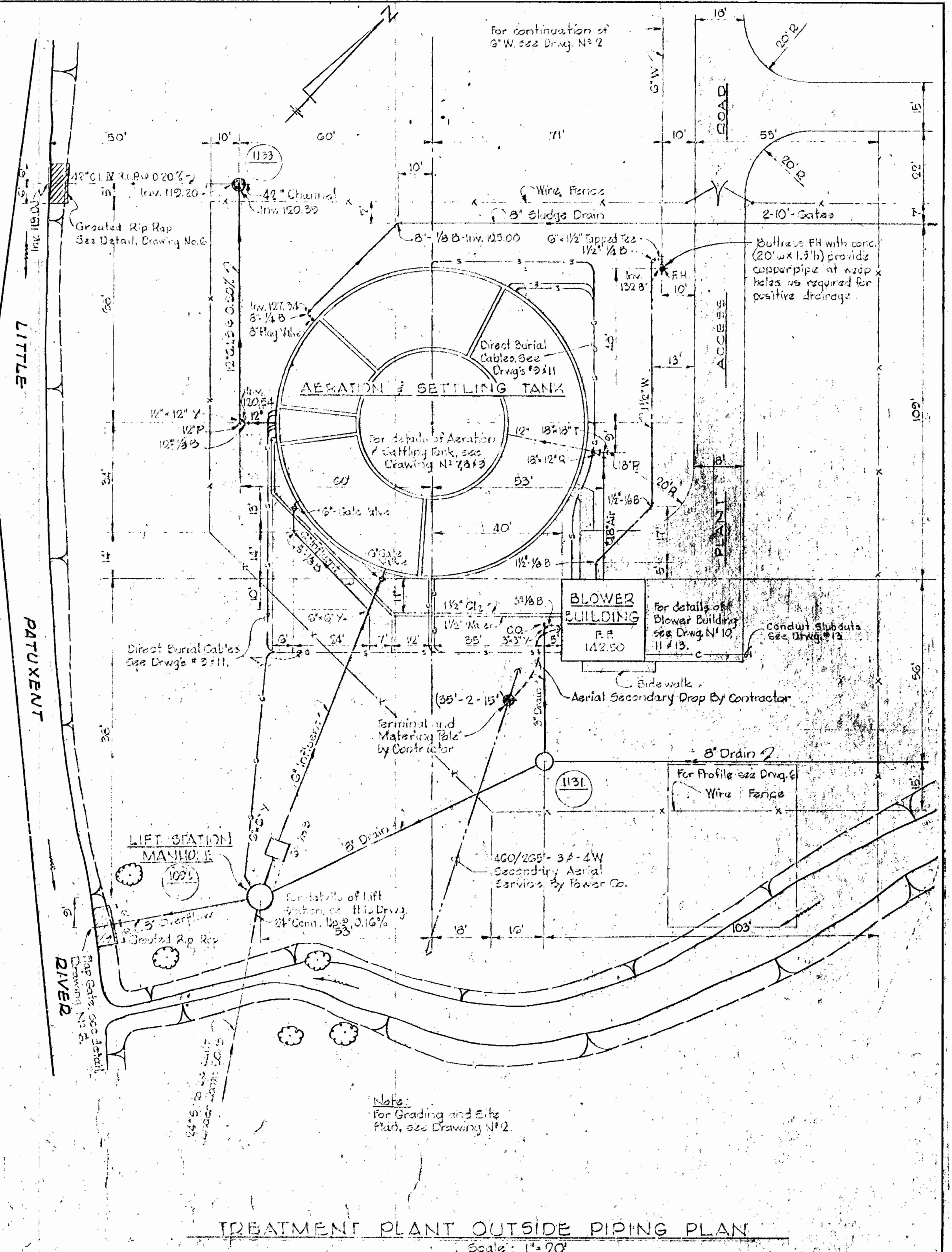
PLAN TOP SLAB
Scale: 1/8" = 1'-0"

DETAIL OF LIFT STATION MANHOLE

- ### NOTES
1. Provide Control Seals in all Conduit Runs in the Manholes.
 2. For Outside Electrical Distribution, see this Drawing.
 3. For Electrical Work at Blower Building and Conduit Run Numbers, see Drawing N3 13.
 4. Place backfill all around Lift Station even layers of 6" thickness.



PROFILES
Scale: Hor: 1" = 100'
Ver: 1" = 10'



TREATMENT PLANT OUTSIDE PIPING PLAN
Scale: 1" = 20'

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

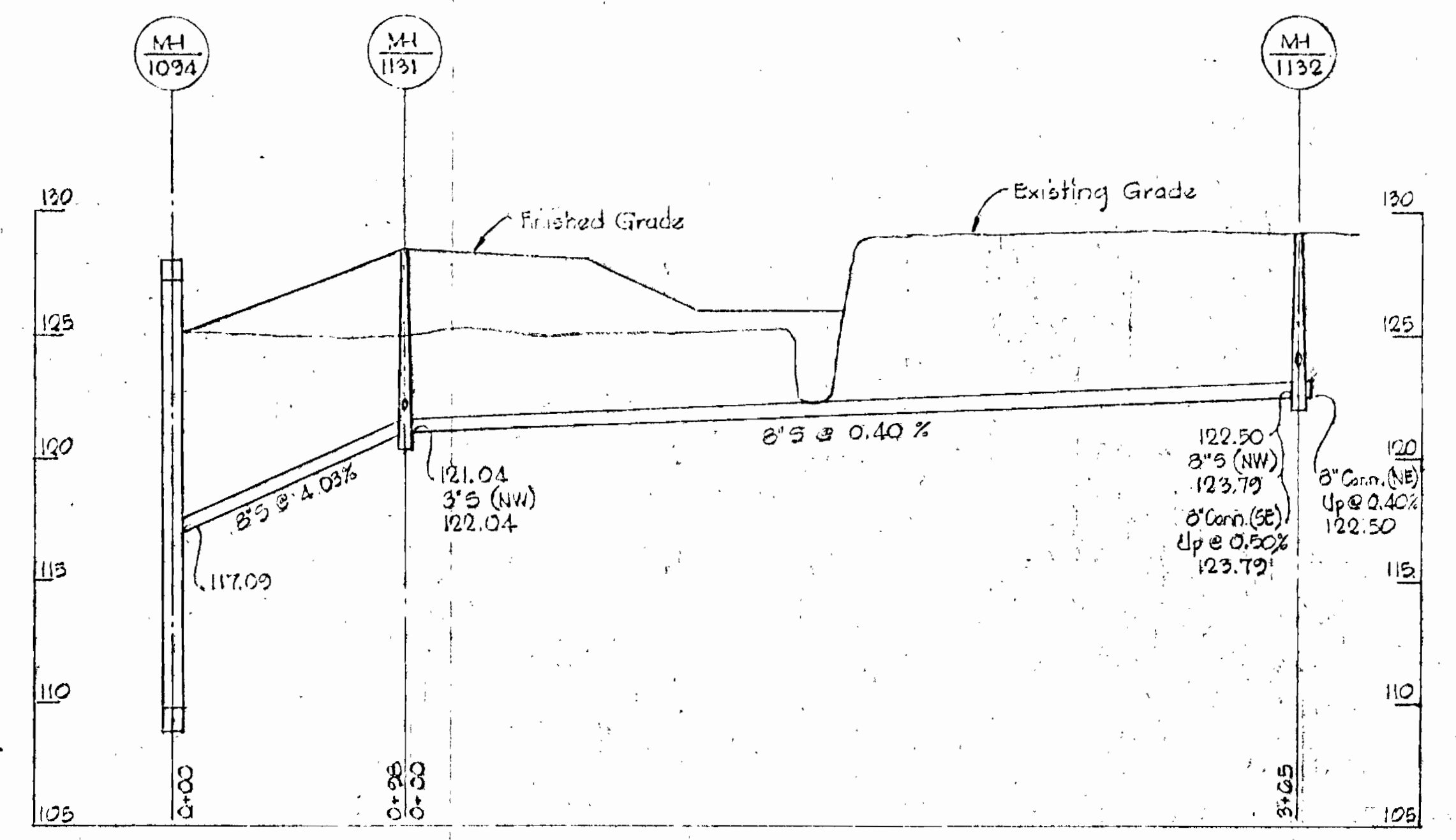
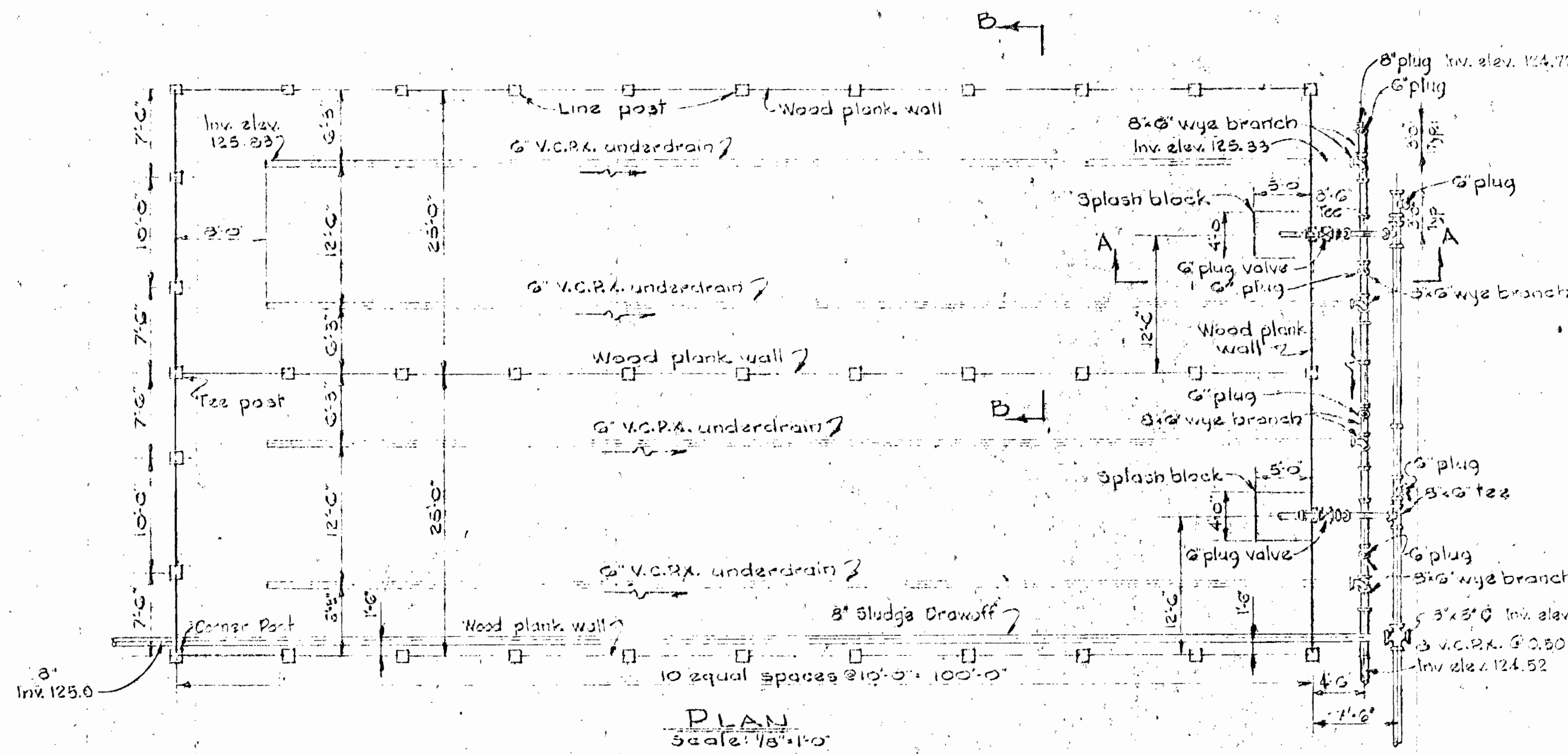
HOWARD COUNTY METROPOLITAN COMMISSION
April 10, 1963
Carl W. Meyer
CHIEF ENGINEER

CONTRACT NO. 55-S

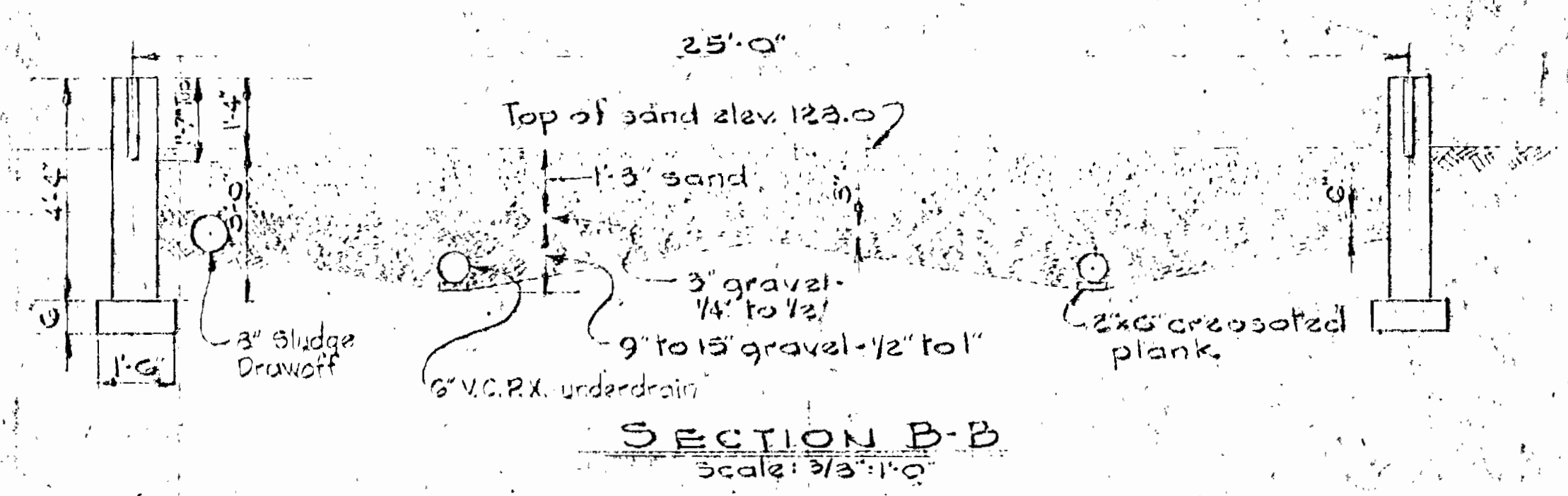
LIFT STATION
MECHANICAL & ELECTRICAL

PATUXENT SUB-DISTRICT

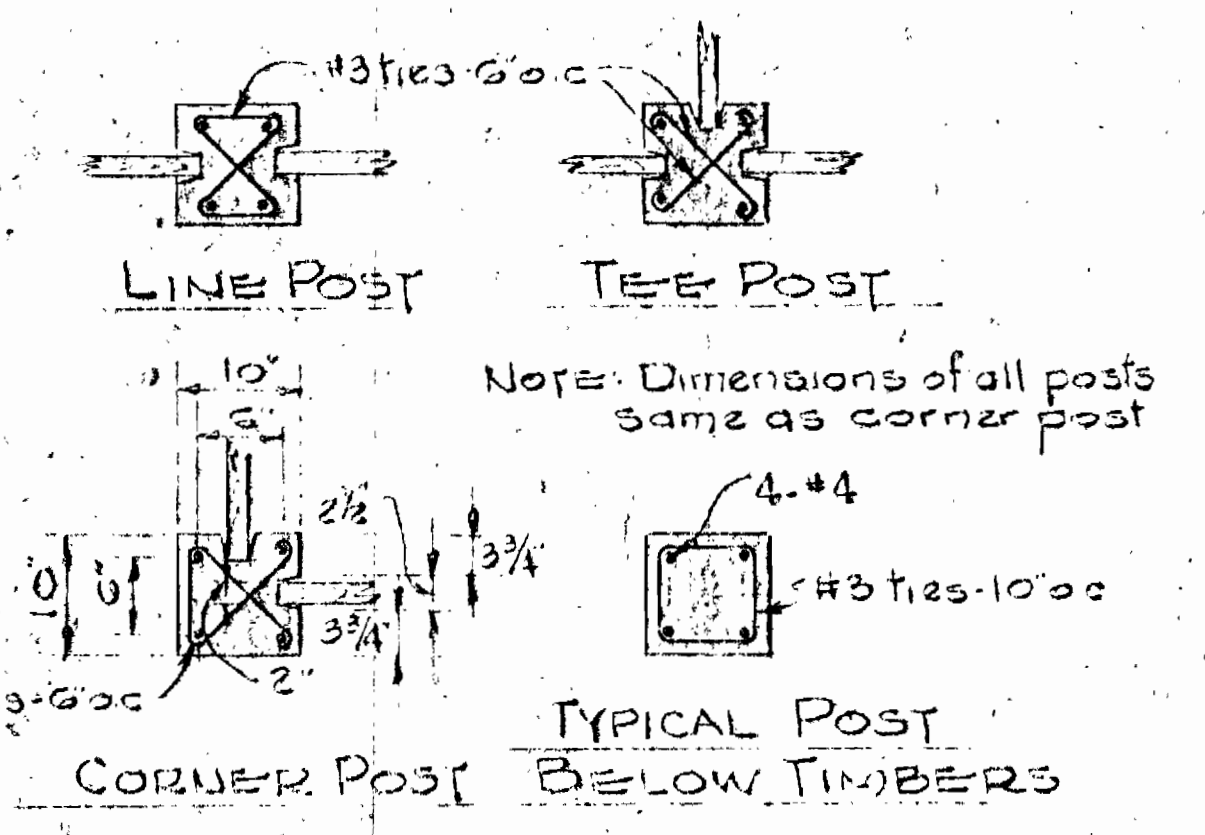
CONTRACT NO. 55-S
DRAWING NO. 5 OF 14
SCALE AS SHOWN



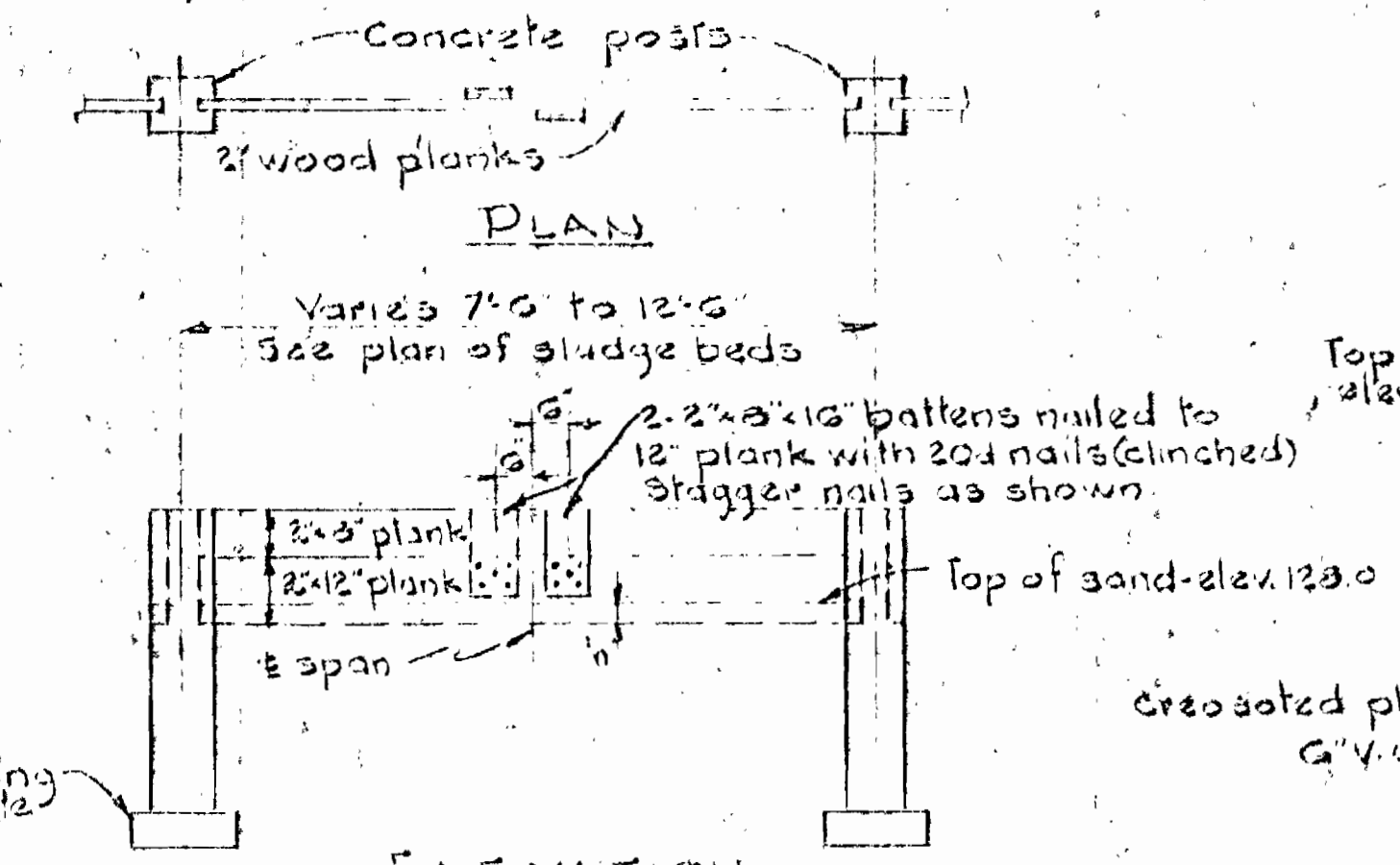
8' DRAIN FROM SLUDGE DRYING BEDS
Scale: H: 1" = 50'
V: 1" = 5'



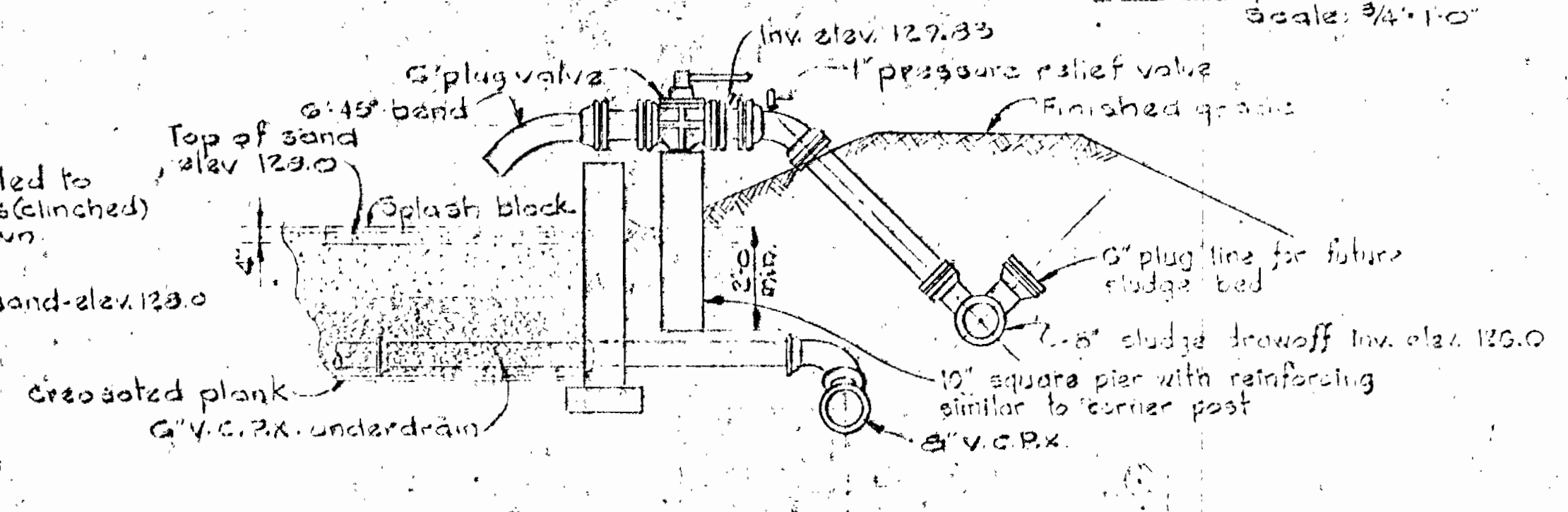
SECTION B-B
Scale: 3/8" = 1'-0"



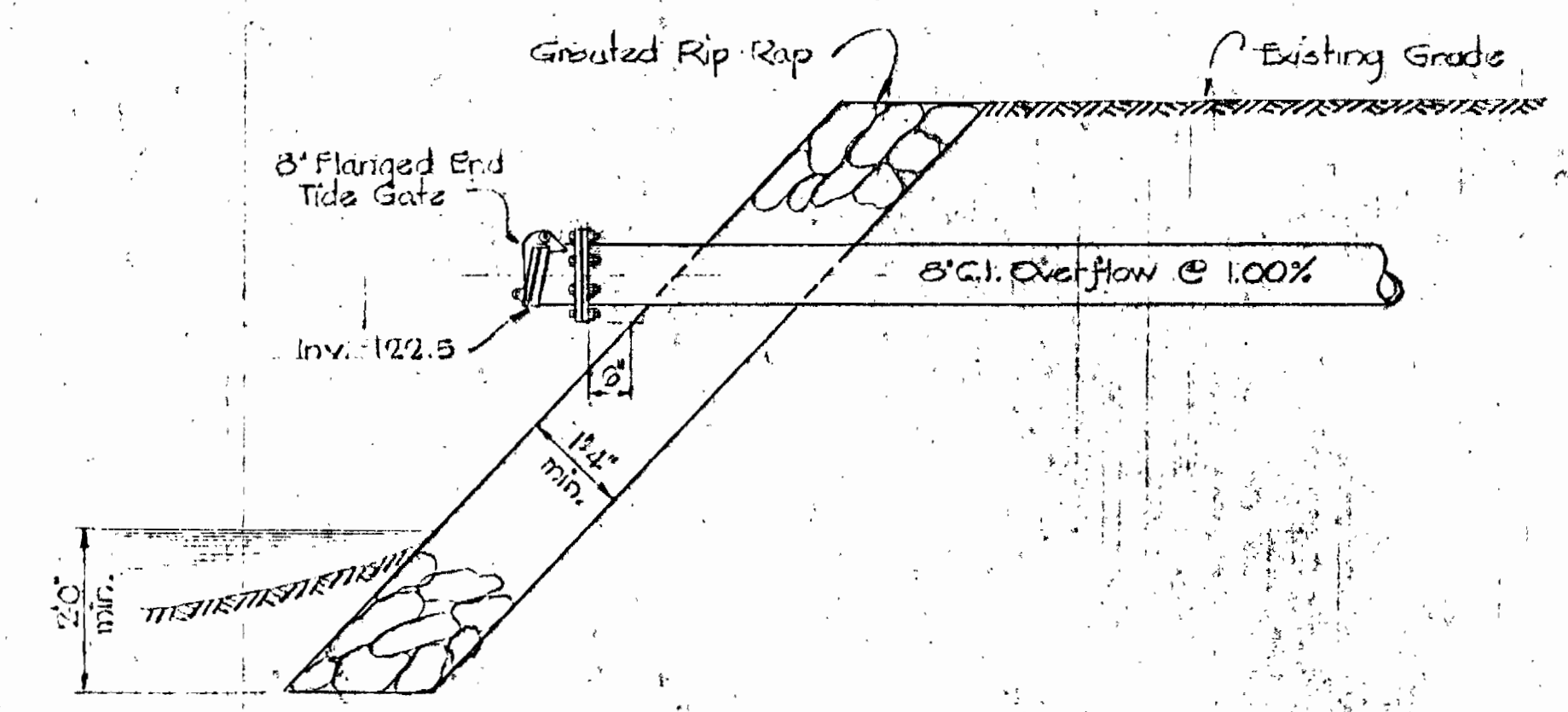
DETAILS OF POSTS
Scale: 3/4" = 1'-0"



DETAIL OF WOOD PLANK WALL
Scale: 3/8" = 1'-0"



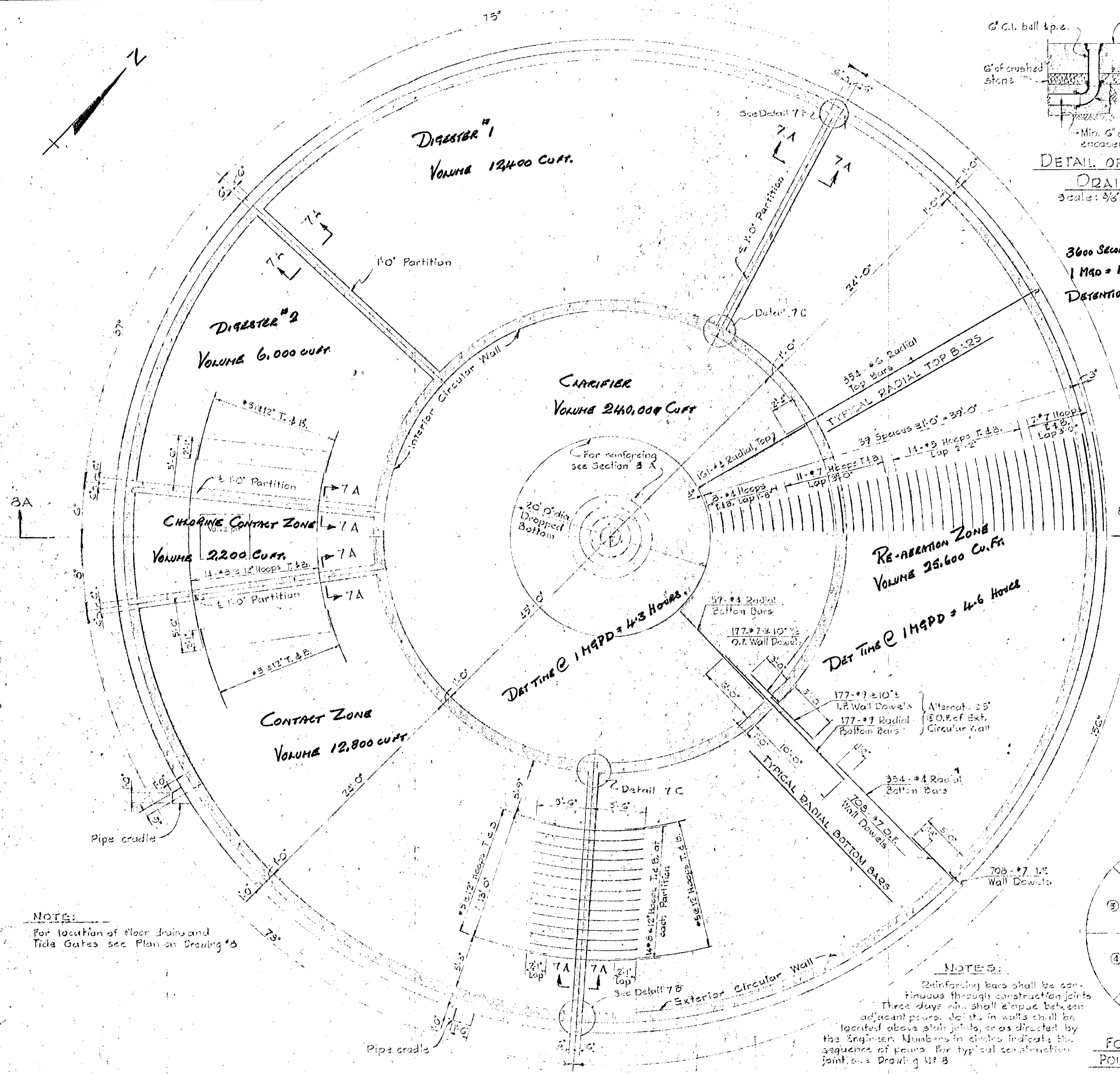
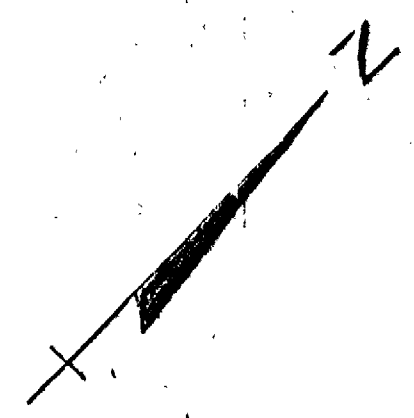
SECTION A-A
Scale: 3/8" = 1'-0"



DETAIL OF TIDE GATE
Scale: 1/2" = 1'-0"

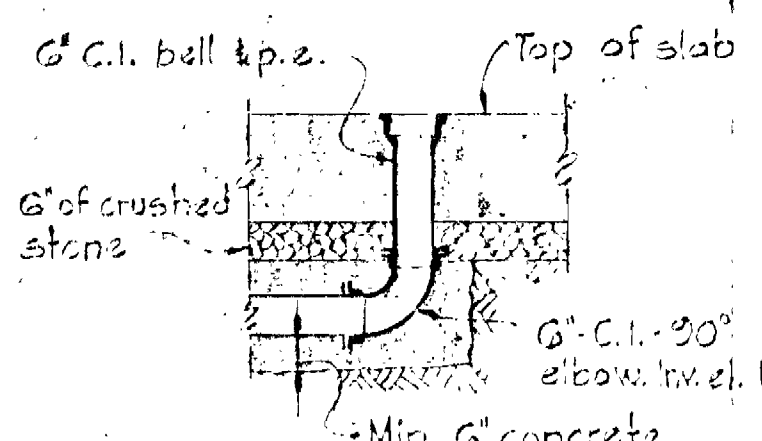
SLUDGE DRYING BEDS DETAILS

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION April 13, 1963 DATE CHIEF ENGINEER	CONTRACT NO. 55-S	SLUDGE DRYING BEDS	PATUXENT SUB-DISTRICT	Contract No. 55-S	
					DRAWING NO. 6 OF 14	SCALE AS SHOWN



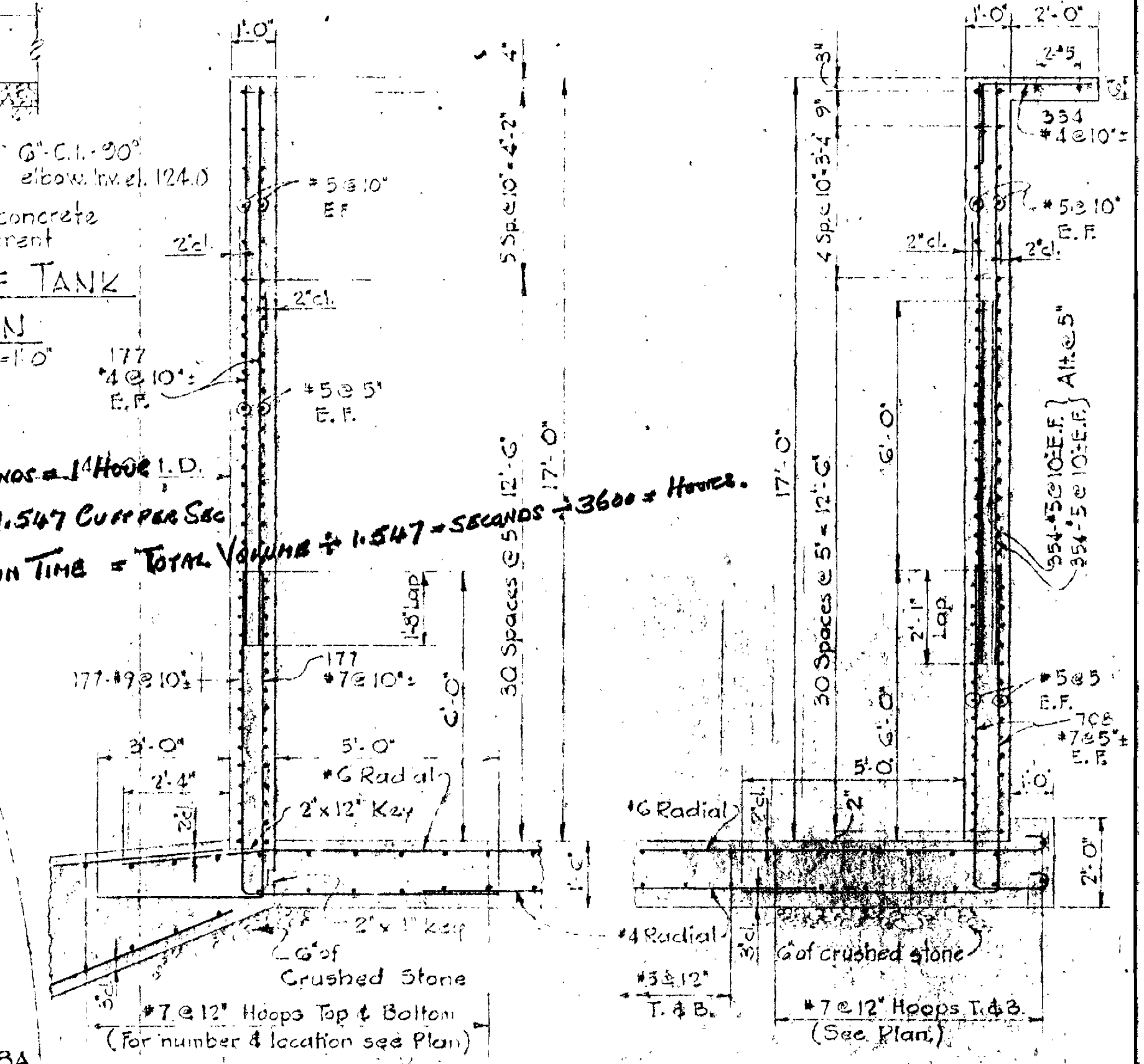
NOTE:
For location of floor drains and Tide Gates see Plan on Drawing #3

NOTES:
Reinforcing bars shall be continuous through construction joints three days min. shall elapse between adjacent pours. Joints in walls shall be located above slab joints, as directed by the Engineer. Numbers in circles indicate the sequence of pours. For typical construction joints see Drawing #3



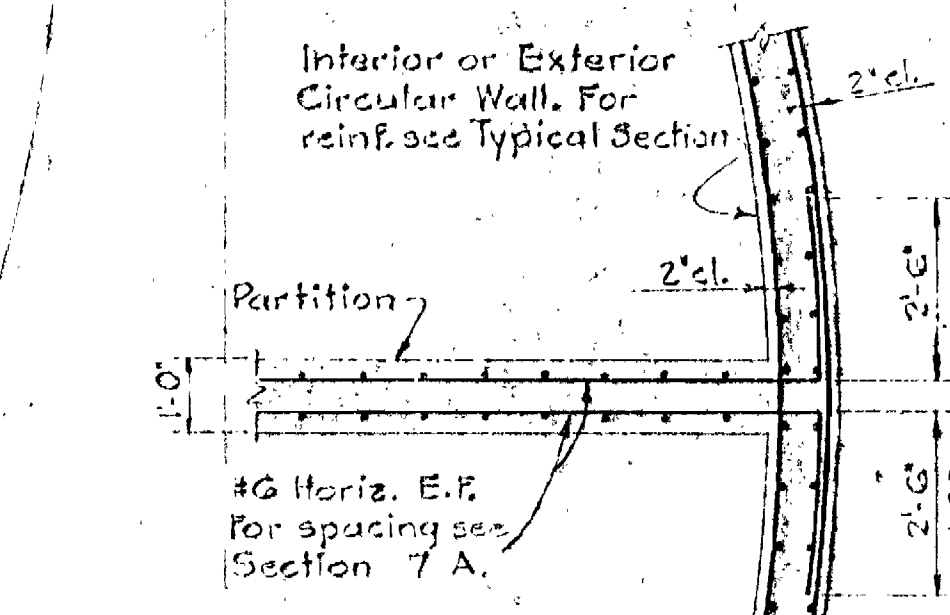
DETAIL OF TANK DRAIN
Scale: 3/8" = 1'-0"

3600 Seconds = 1 Hour I.D.
1 MGD = 1.547 Cu.Ft. per Sec
Detention Time = Total Volume / 1.547 = 3600 = Hours.

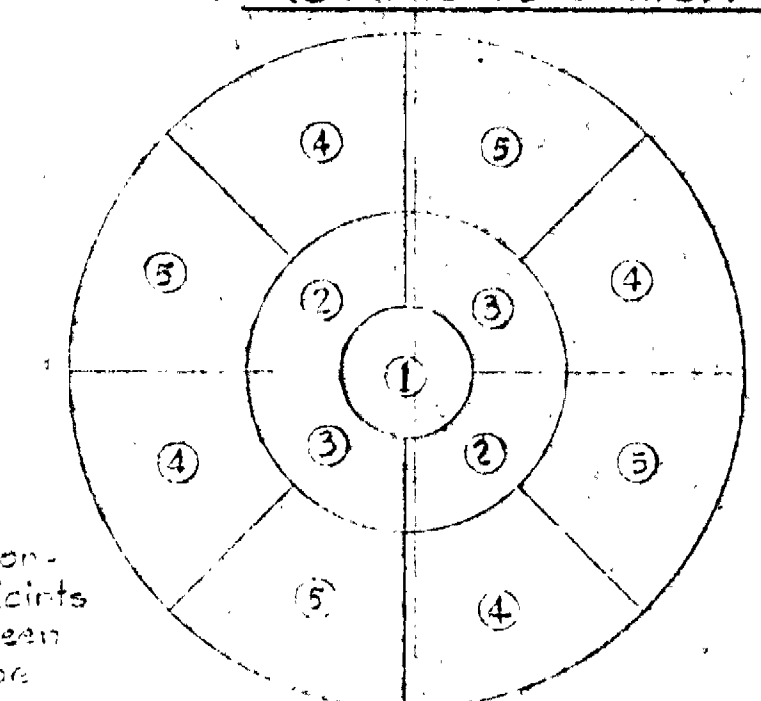


TYPICAL INTERIOR CIRCULAR WALL
Scale: 3/8" = 1'-0"

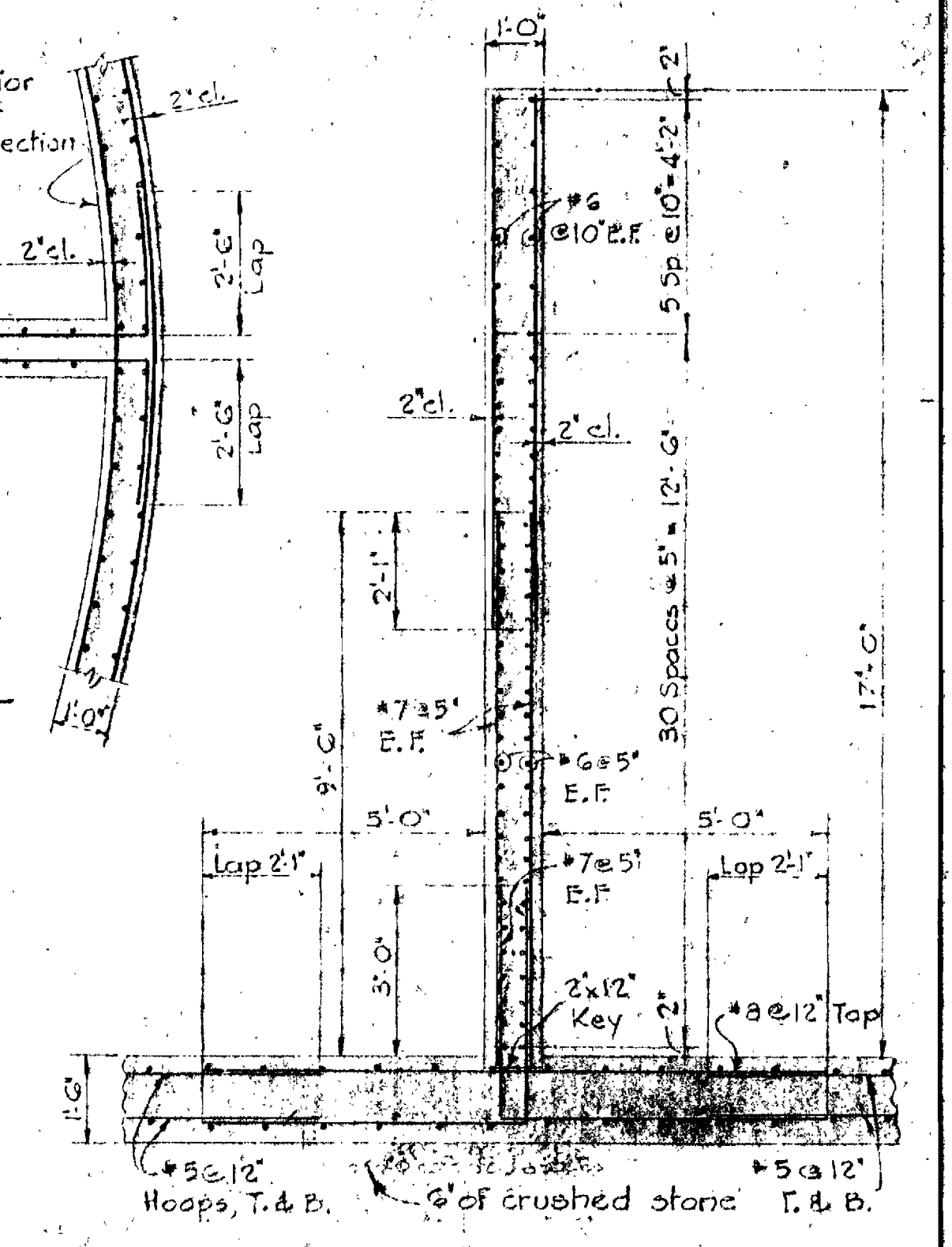
TYPICAL EXTERIOR CIRCULAR WALL
Scale: 3/8" = 1'-0"



DETAIL 7B
Scale: 3/8" = 1'-0"
(DETAIL 7C SIMILAR.)



FOUNDATION SLAB POURING SEQUENCE



SECTION 7A
Scale: 3/8" = 1'-0"

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

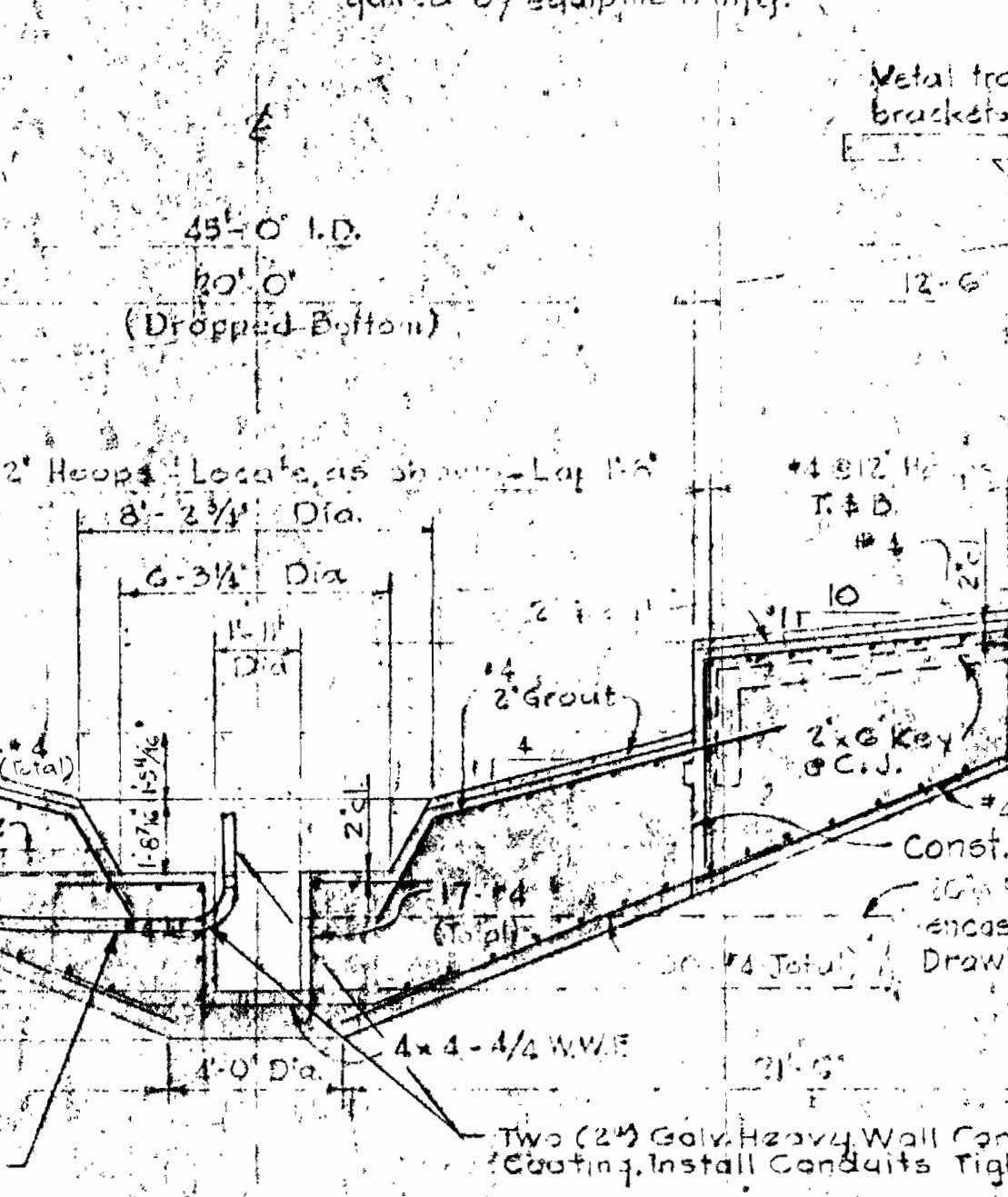
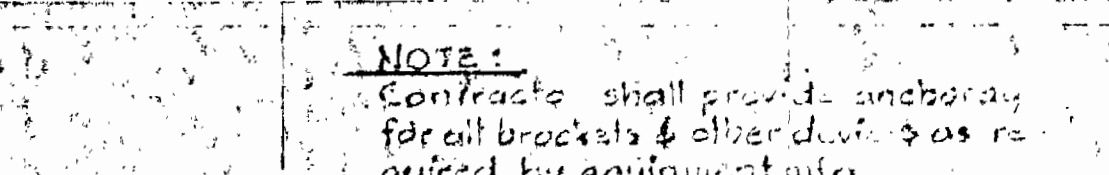
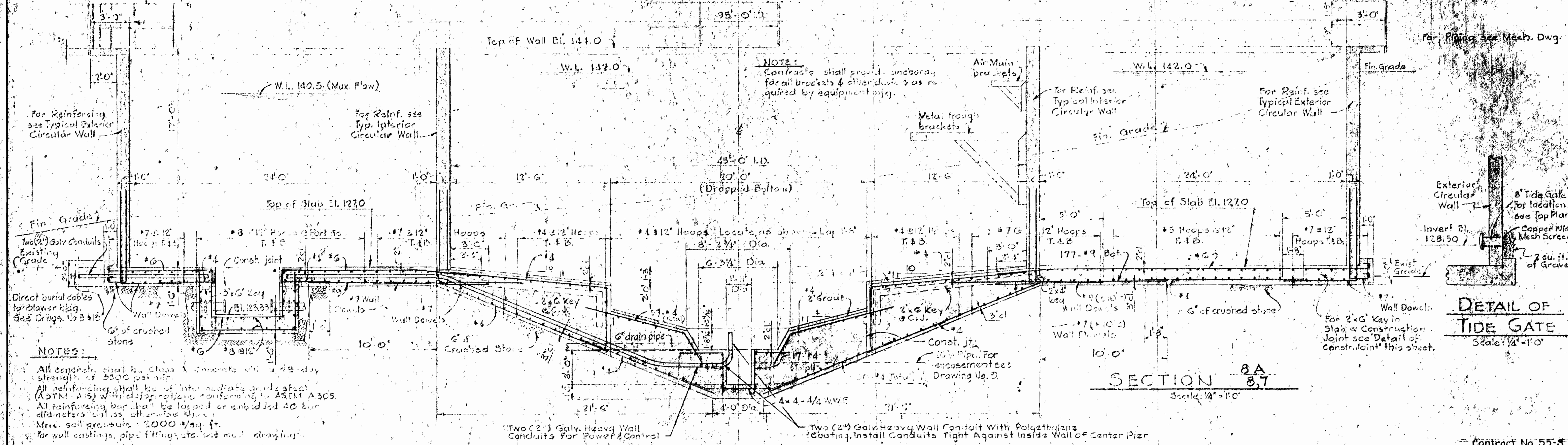
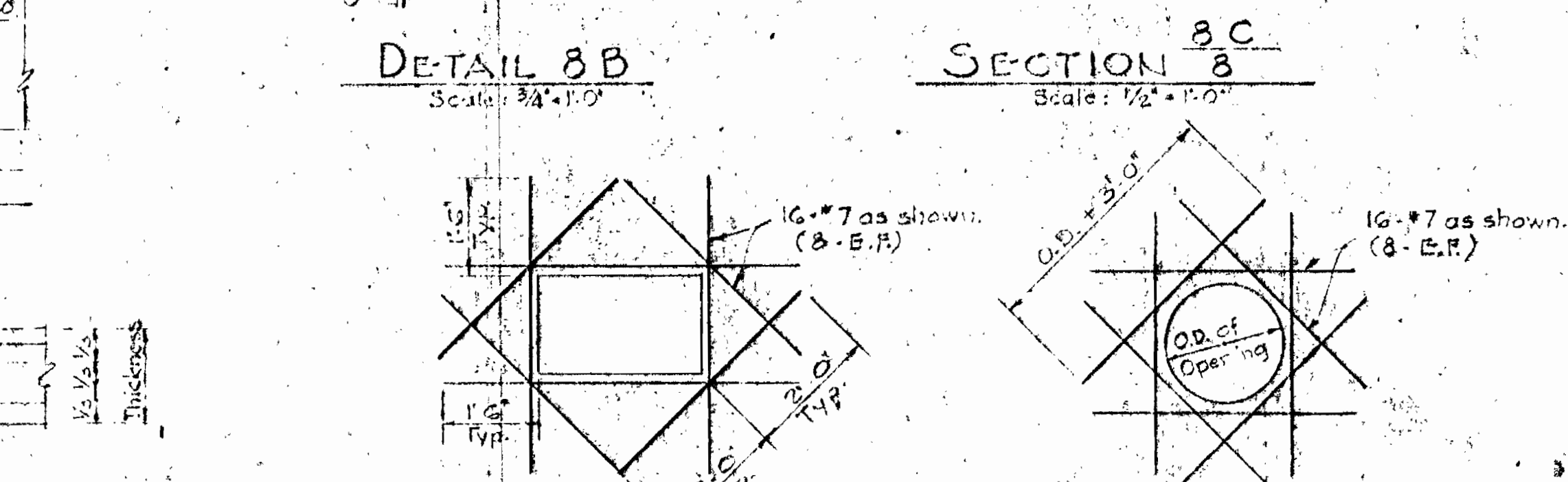
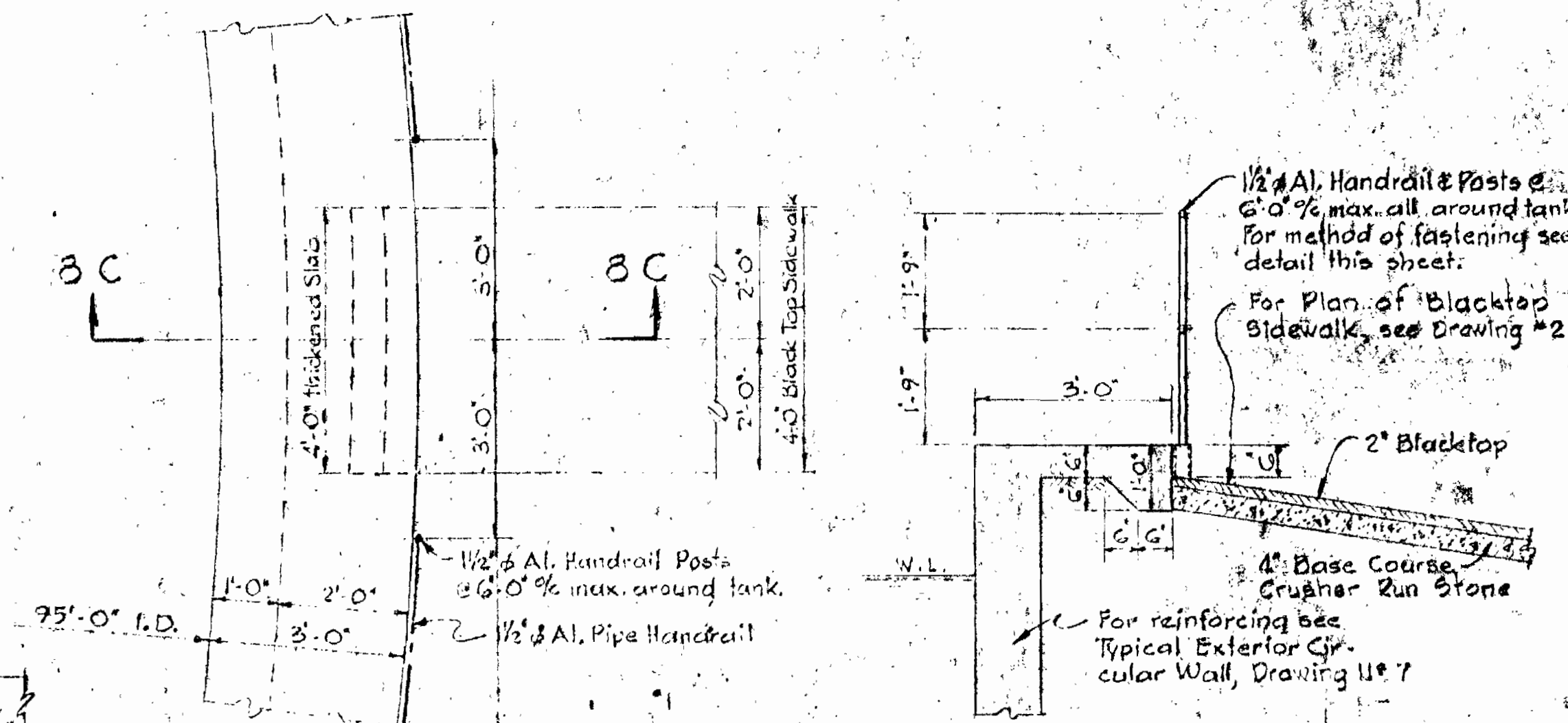
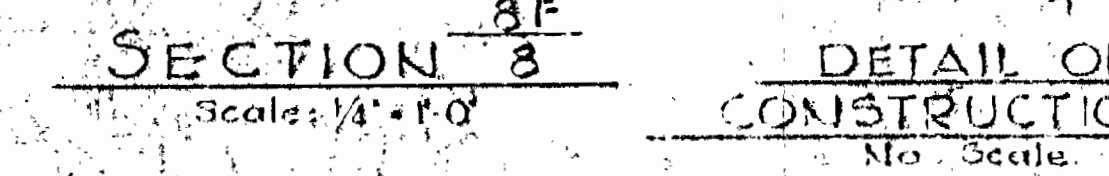
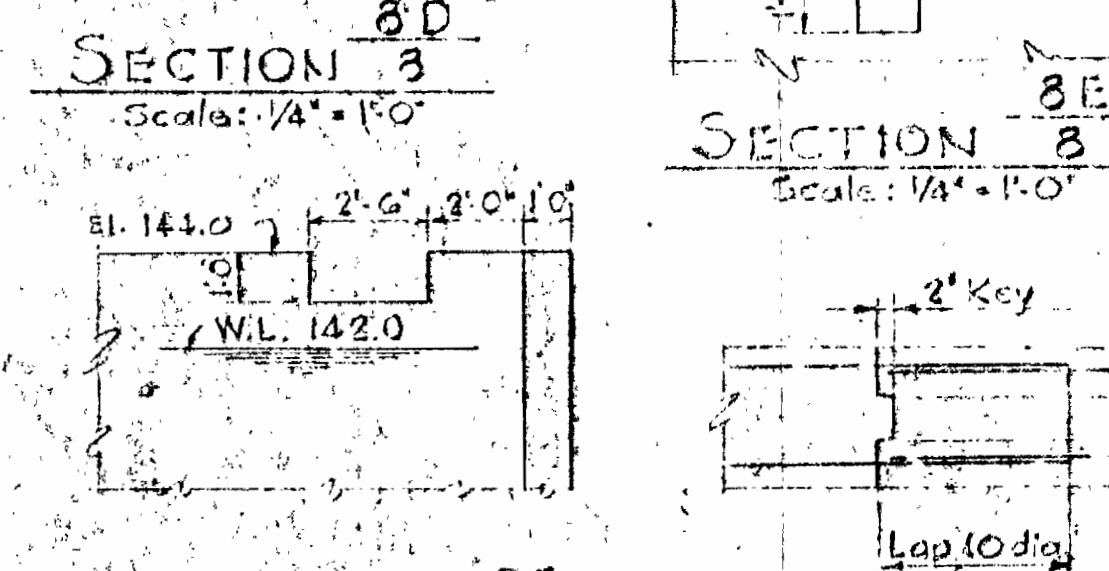
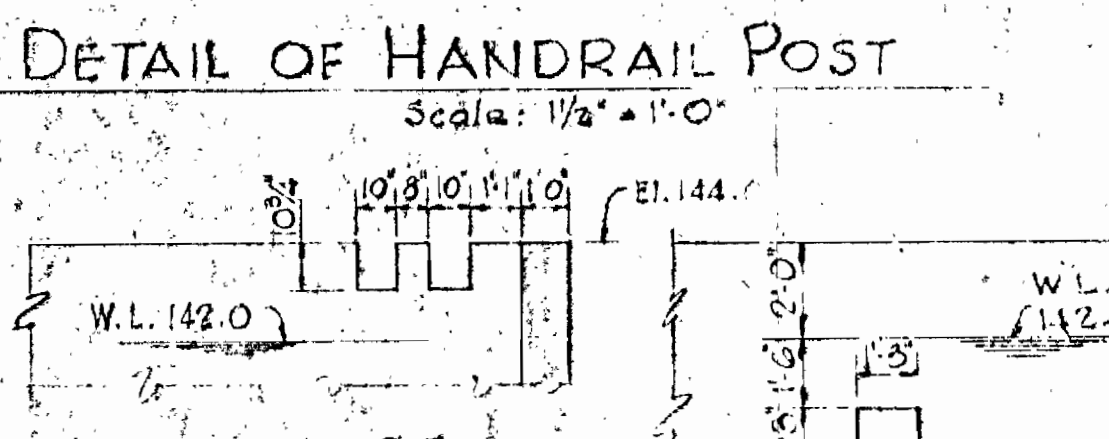
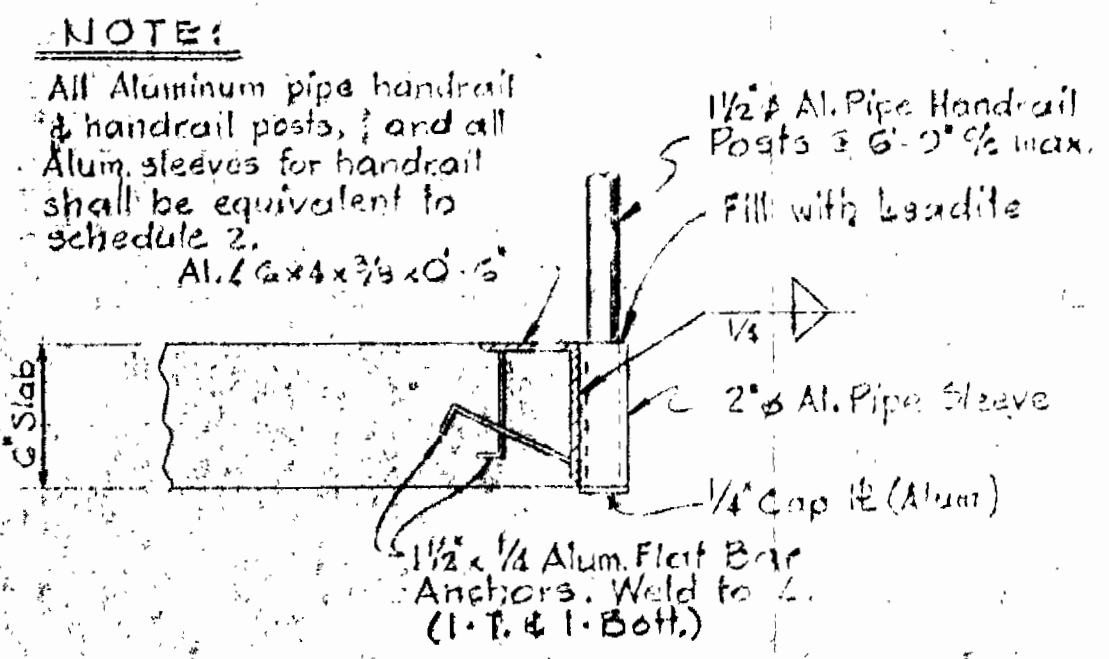
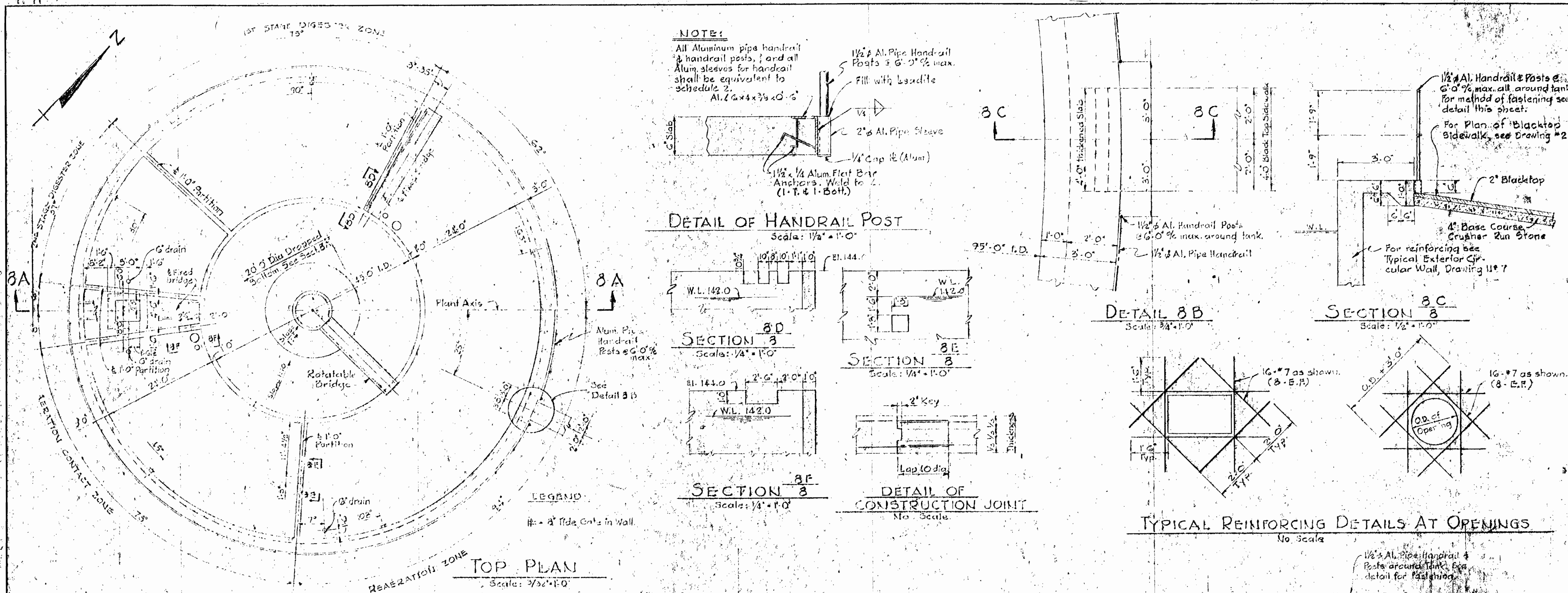
HOWARD COUNTY METROPOLITAN COMMISSION
Aug. 19, 1964
DATE
W. O. Libbert
CHIEF ENGINEER

CONTRACT NO. 55-S

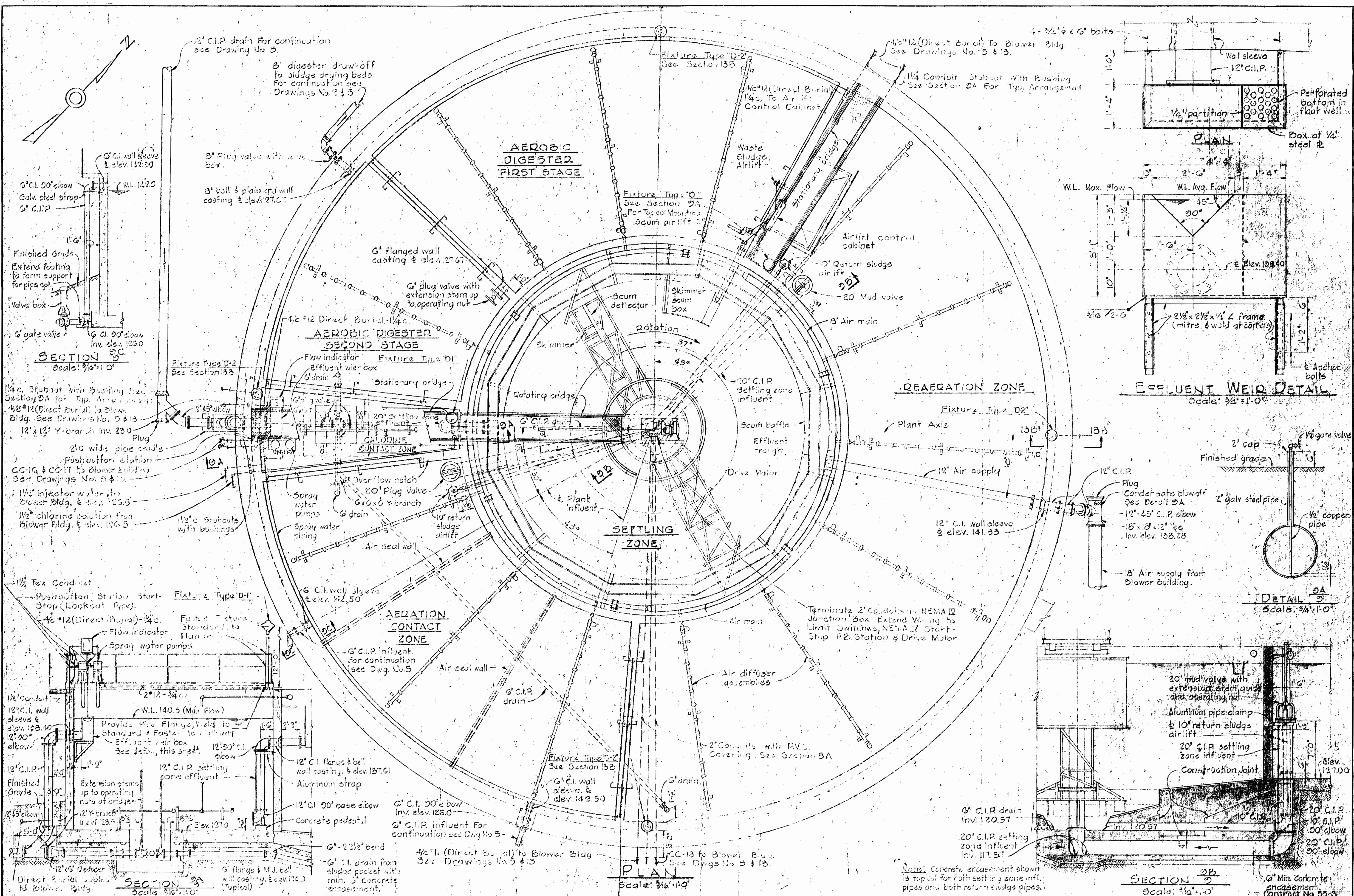
AERATION & SETTLING TANK
STRUCTURAL

PATUXENT SUB-DISTRICT

DRAWING NO. 7 OF 14
SCALE AS SHOWN
Contract No. 55-S



NOTES:
 All concrete shall be Class A concrete with 28 day strength of 5000 psi min.
 All reinforcing shall be of intermediate or deformed (ASTM A 615) with lap splicing conforming to ASTM A 633.
 All reinforcing bar shall be lap spliced or embedded 40 bar diameters min. in all concrete slabs.
 Max. soil pressure: 2000 lbs/sq. ft.
 For wall castings, pipe fittings, etc. see mech. drawing.



WHITMAN, REARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION
Aug 19 1964
W. O. Falbert
CHIEF ENGINEER

CONTRACT NO. 55-S

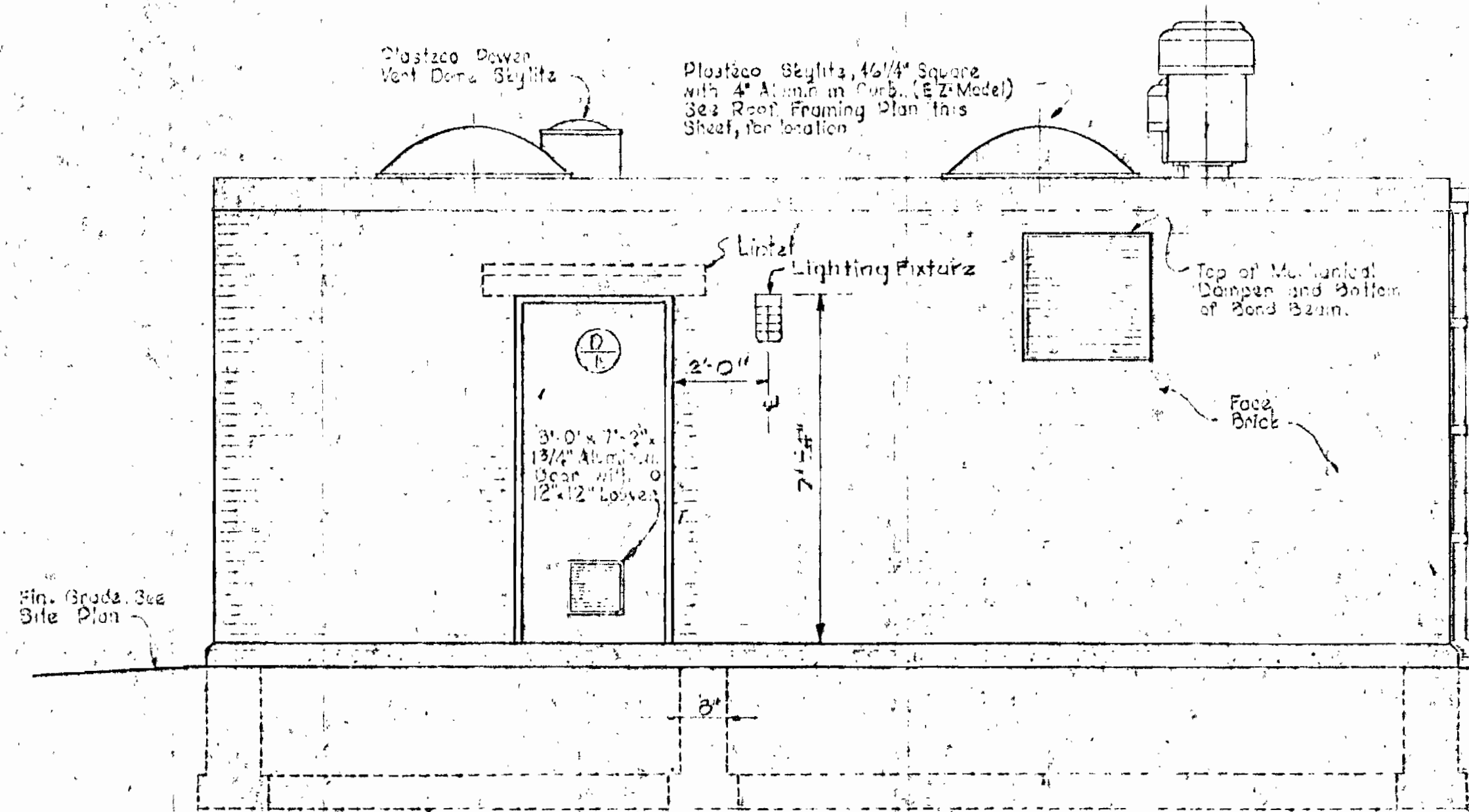
**AERATION & SETTLING TANK
MECHANICAL**

PATUXENT SUB-DISTRICT

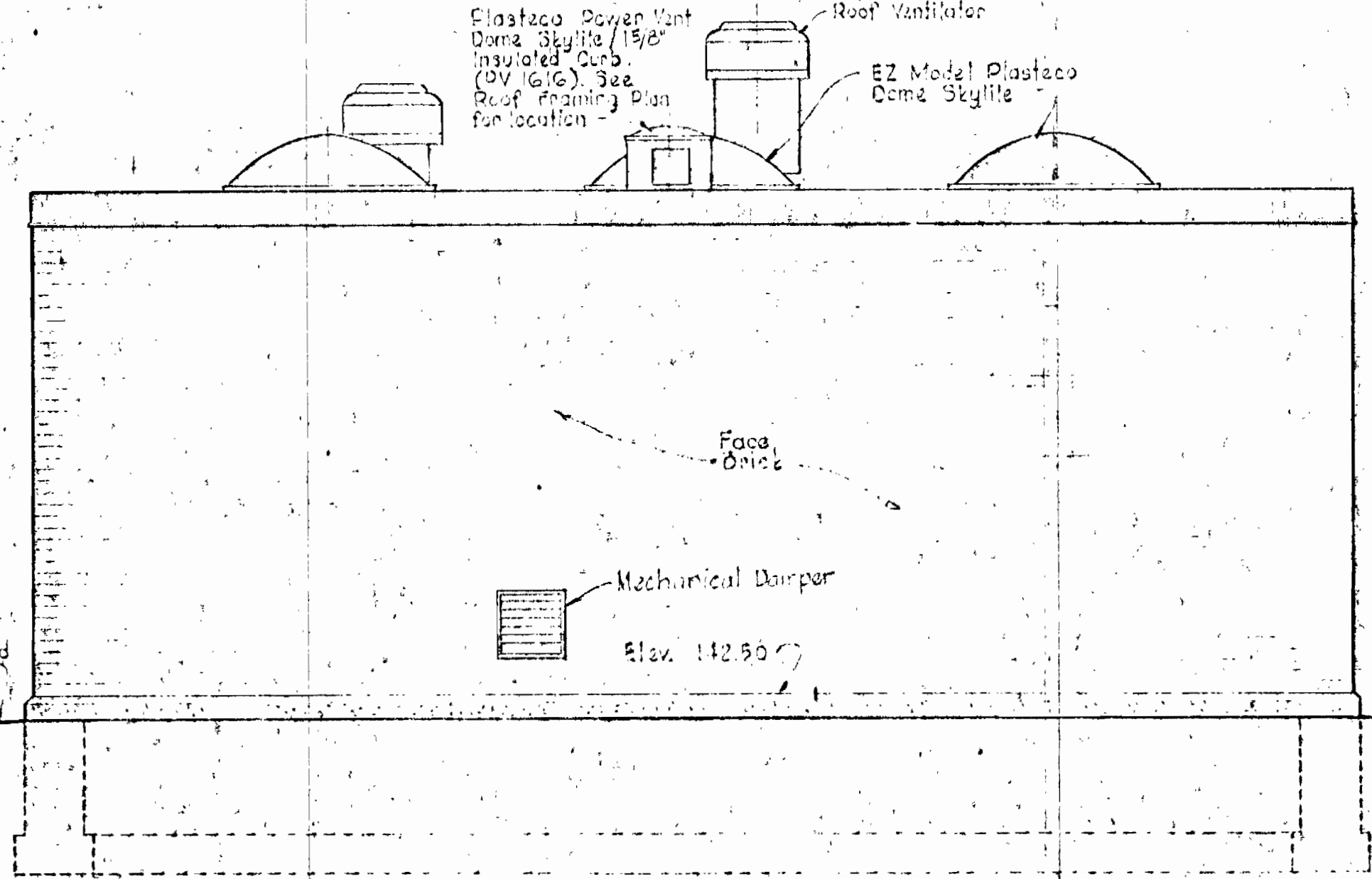
**DRAWING NO. 9
OF 14**

**SCALE AS
SHOWN**

Note: Concrete encasement shown is typical for both settling zone infl. pipes and both return sludge pipes.



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



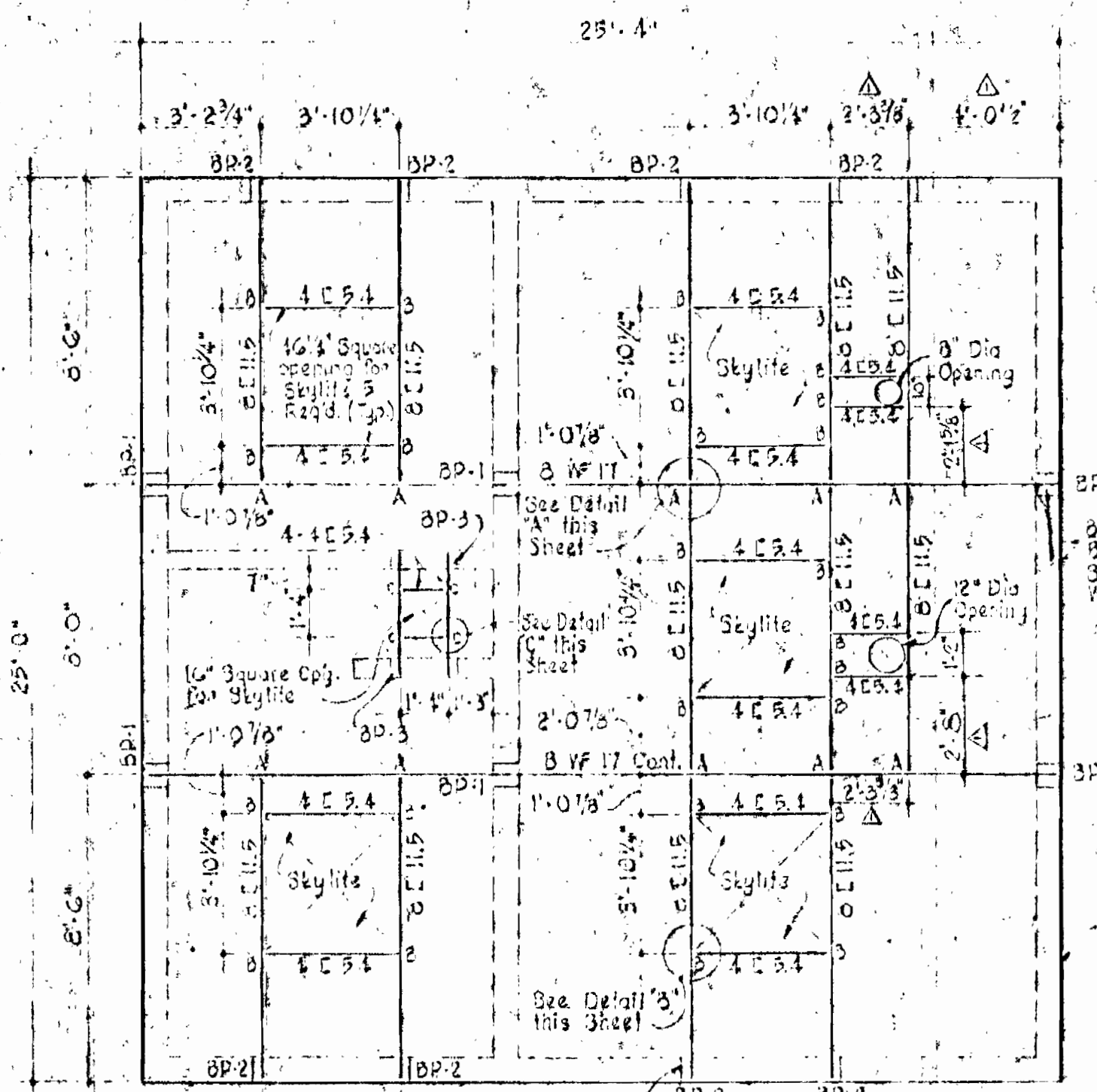
WEST ELEVATION
Scale: 3/8" = 1'-0"

CONCRETE NOTES

1. All Concrete shall have a minimum compressive strength of 3500 psi at 28 Days. See Specifications for other requirements.
2. Reinforcement shall be of intermediate grade steel conforming to ASTM A15 with deformations conforming to ASTM A305.
3. Reinforcing Bars shall be embedded and/or lapped a minimum of 30 Diameters.
4. All exposed surfaces of Floor Slabs shall receive hardener.

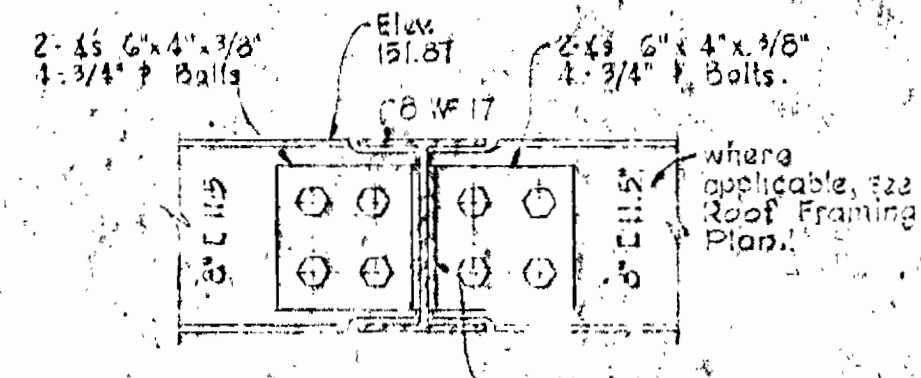
STRUCTURAL STEEL NOTES

1. All Structural Steel shall be ASTM A36 and shall be detailed, fabricated and erected in accordance with the current A.I.S.C. Code for Buildings. See Specifications for other requirements.

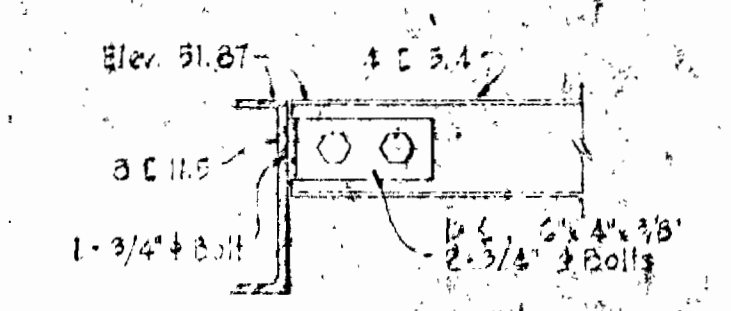


ROOF FRAMING PLAN
Scale: 1/4" = 1'-0"

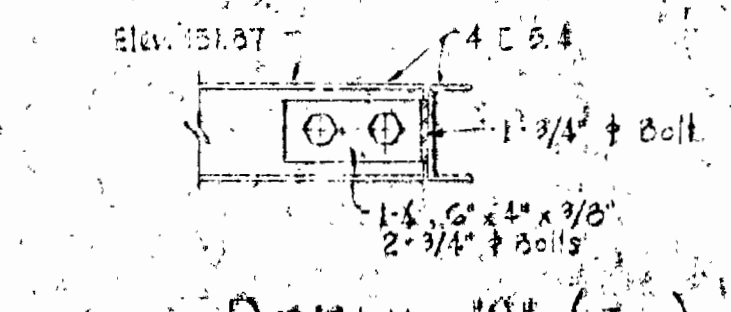
BP-1 - 8" x 8" x 1/2" Beaming (4 req'd) Weld to B WF 17
 BP-2 - 8" x 4" x 3/8" Beaming (3 req'd) Weld to B C 11.5
 BP-3 - 6" x 4" x 3/8" Beaming (4 req'd) Weld to 4 C 8.4



DETAIL 'A' (Typ.)
Scale: 1/2" = 1'-0"

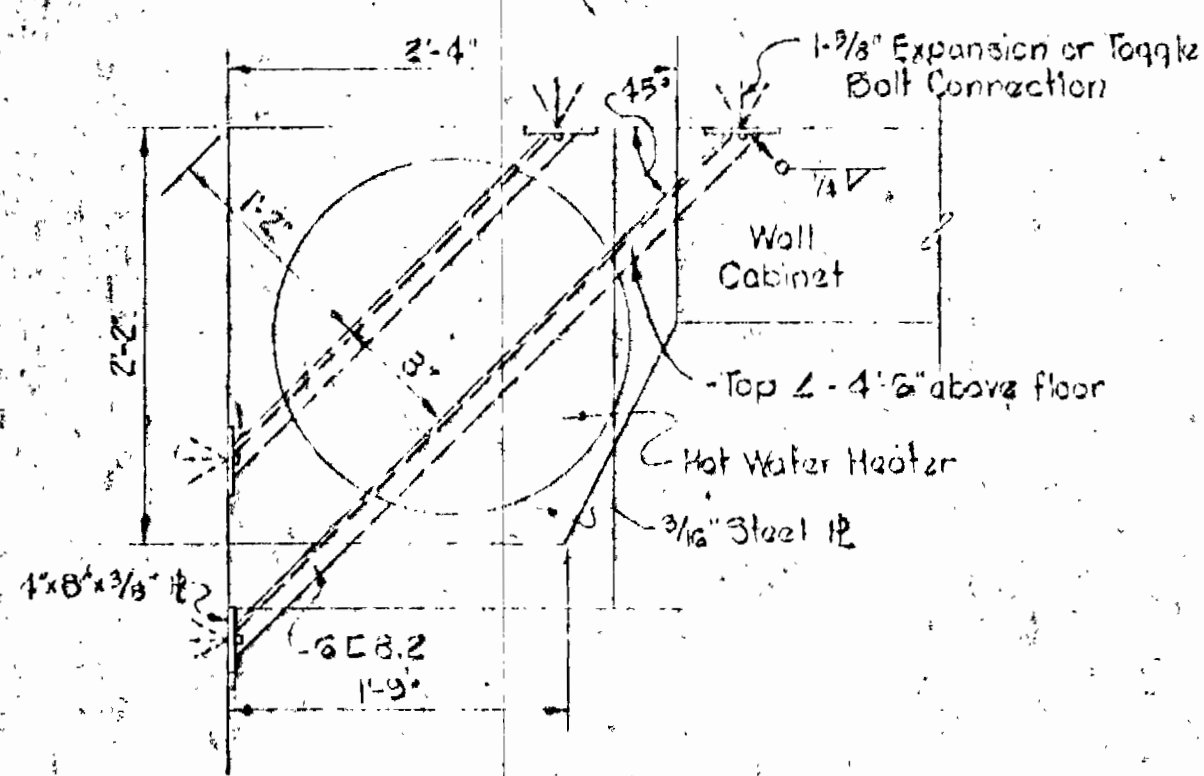


DETAIL 'B' (Typ.)
Scale: 1/2" = 1'-0"



DETAIL 'C' (Typ.)
Scale: 1/2" = 1'-0"

INTERIOR FINISHES
 Floor - Colored Hardener on all floor areas, except on 6" high pads
 Walls - Plastered Block
 Ceilings - Exposed Construction



DETAIL OF SHELF
Scale: 1" = 1'-0"

1	2-1-63	Location of roof framing around 8' x 12' opening revised
2		Revision

WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 1304 ST. PAUL ST.
 BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION
 Aug 19, 1964
 DATE

W. O. Libert
 CHIEF ENGINEER

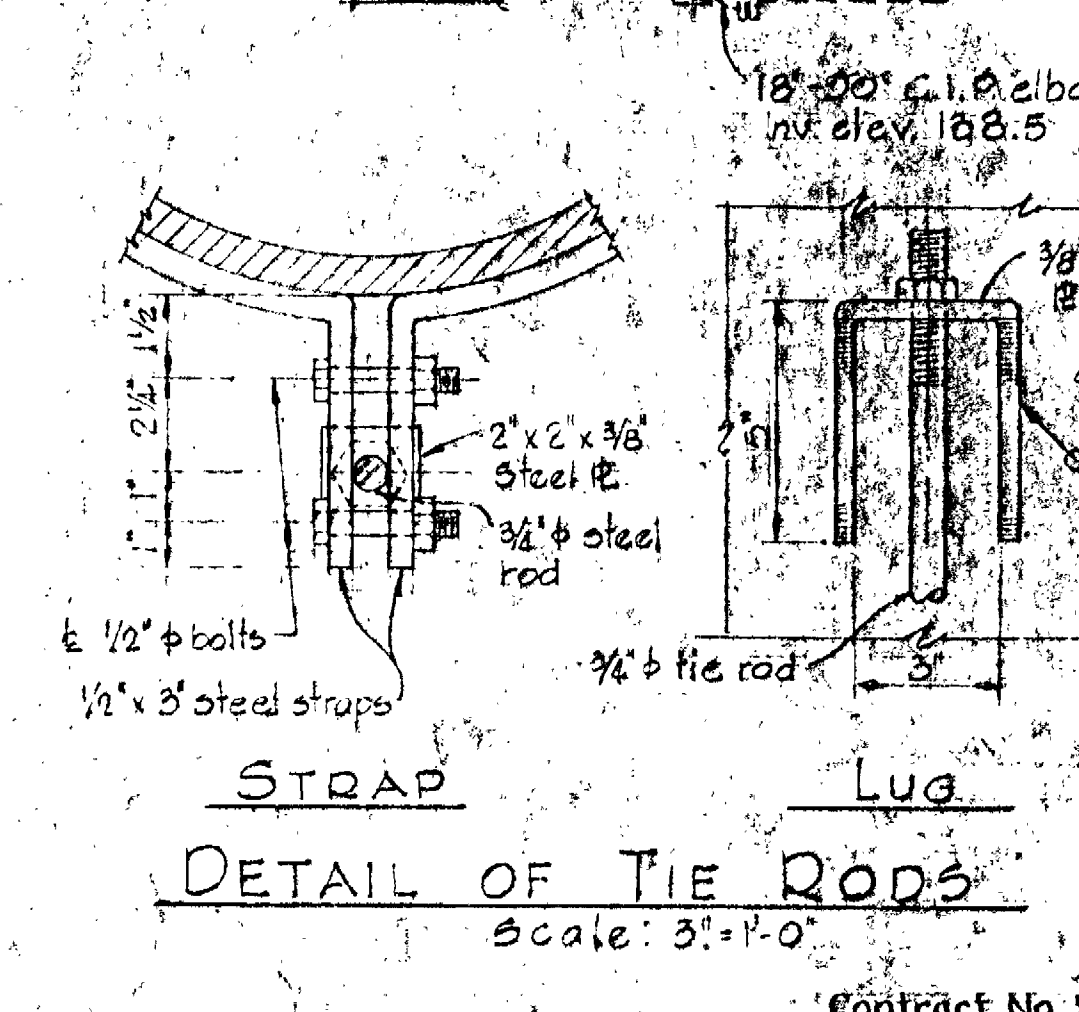
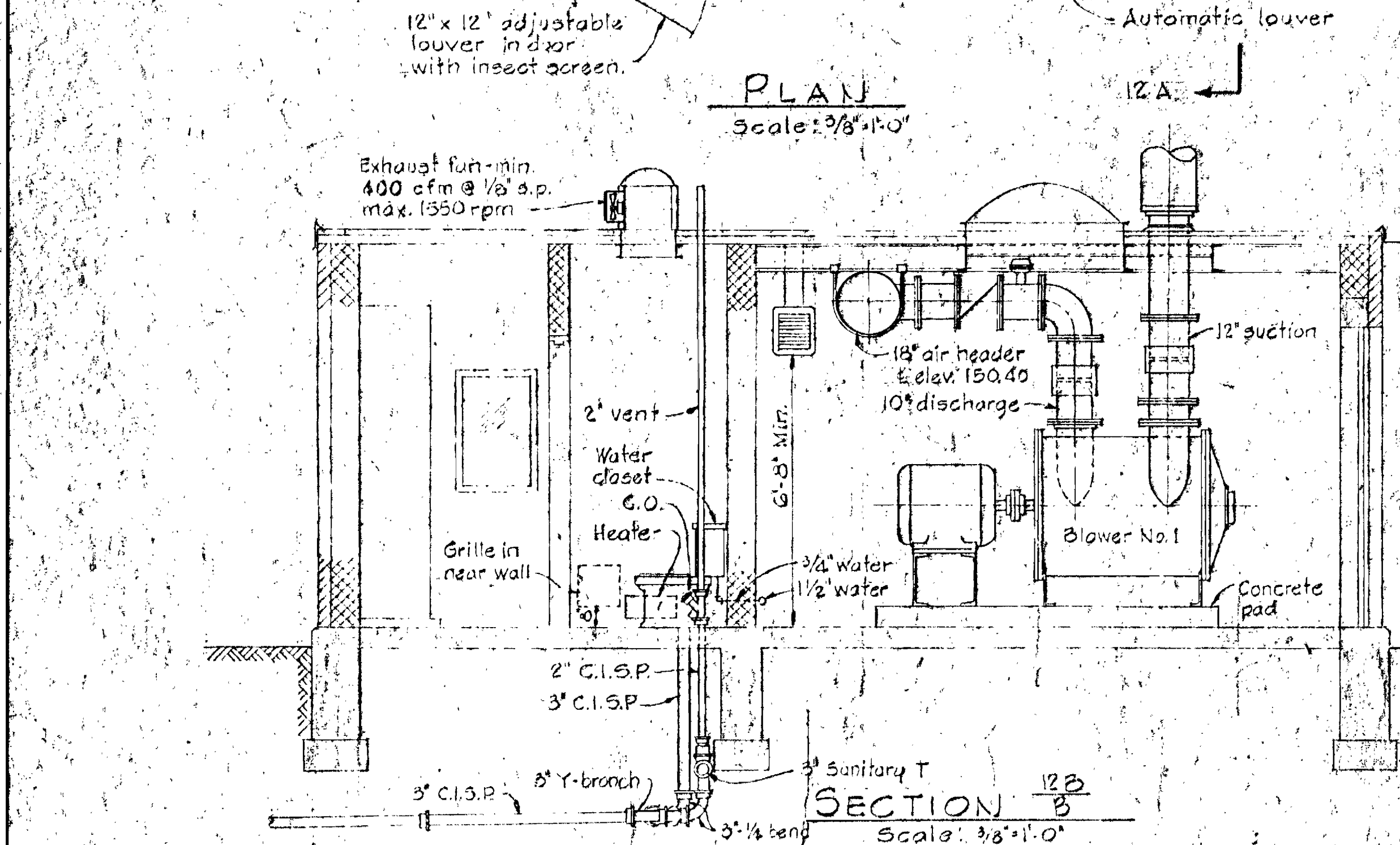
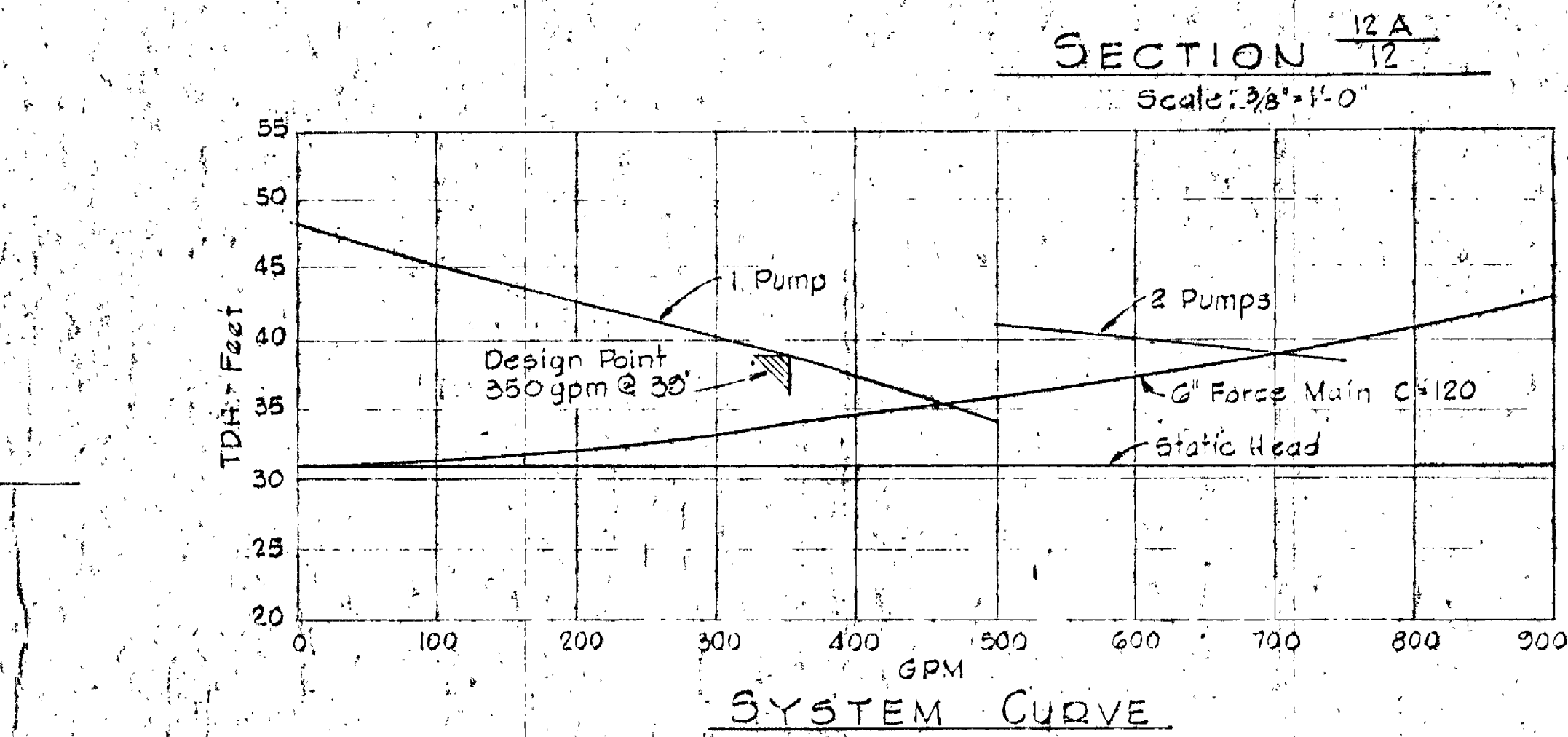
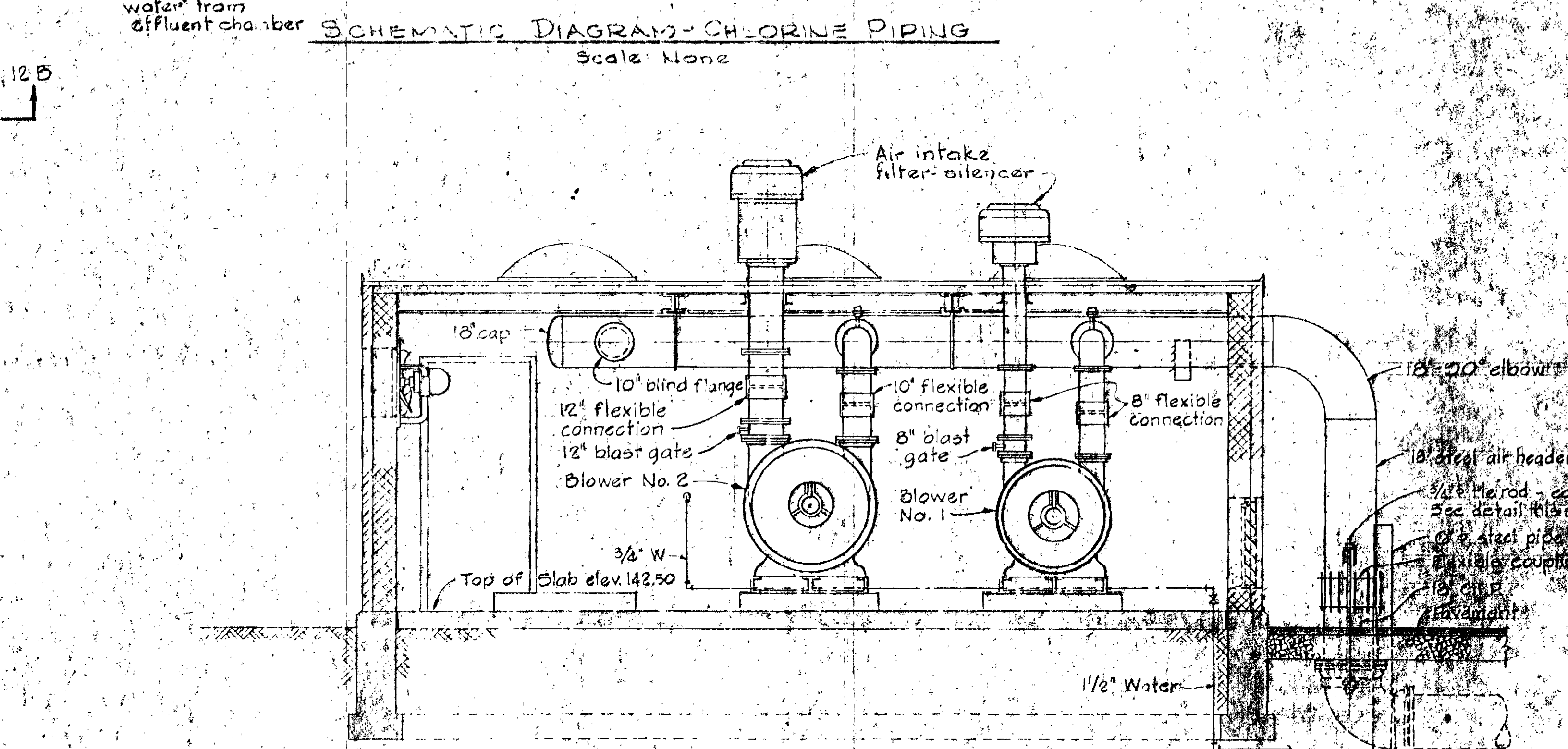
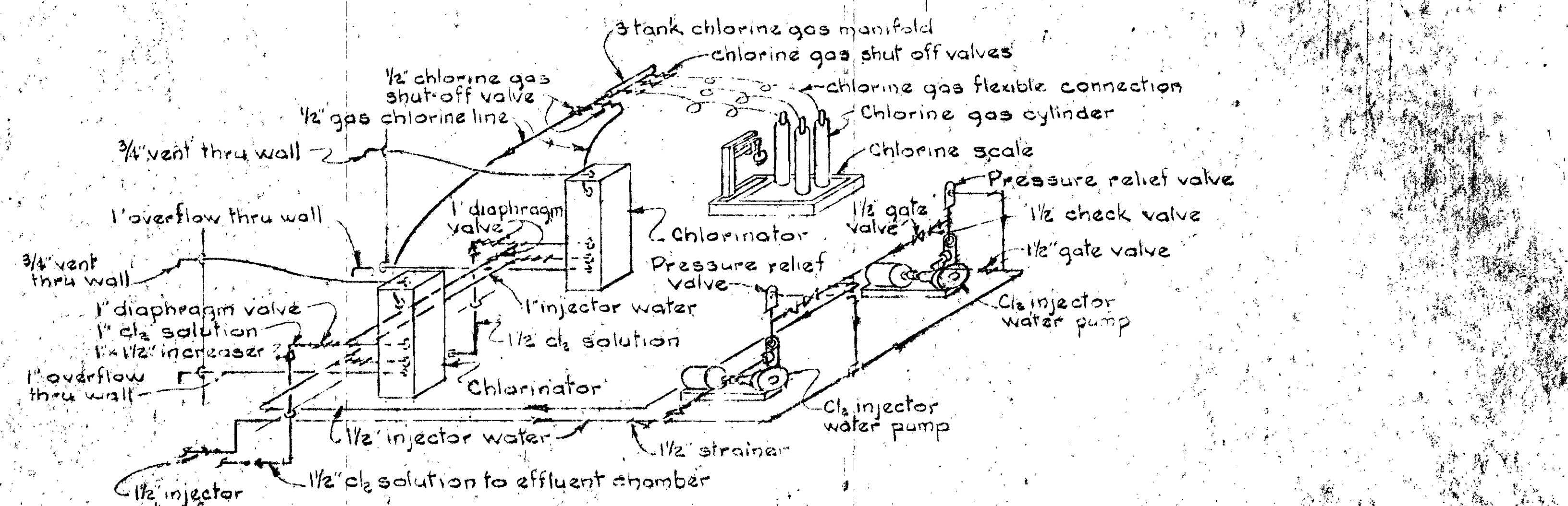
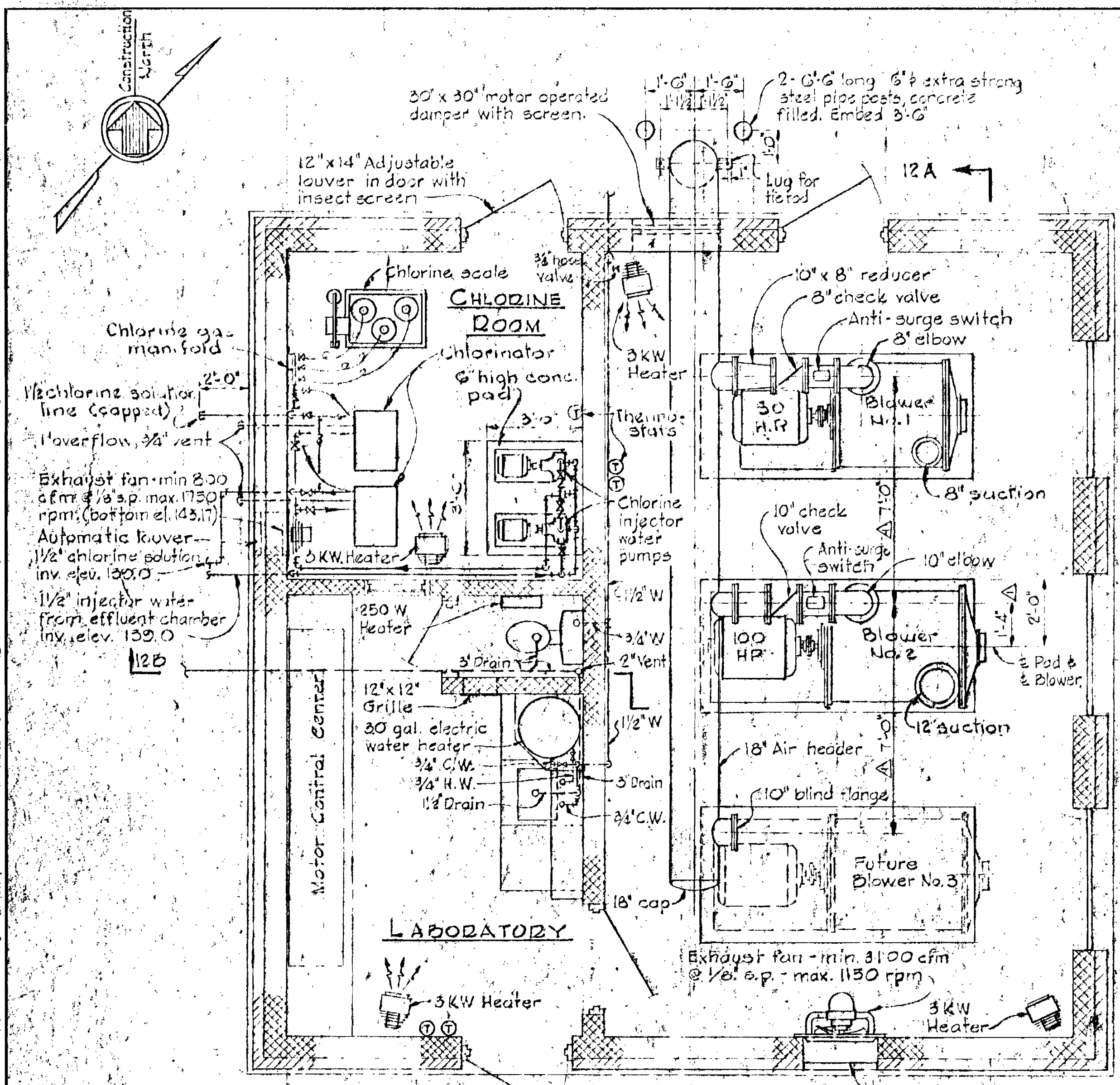
CONTRACT NO. 55-S

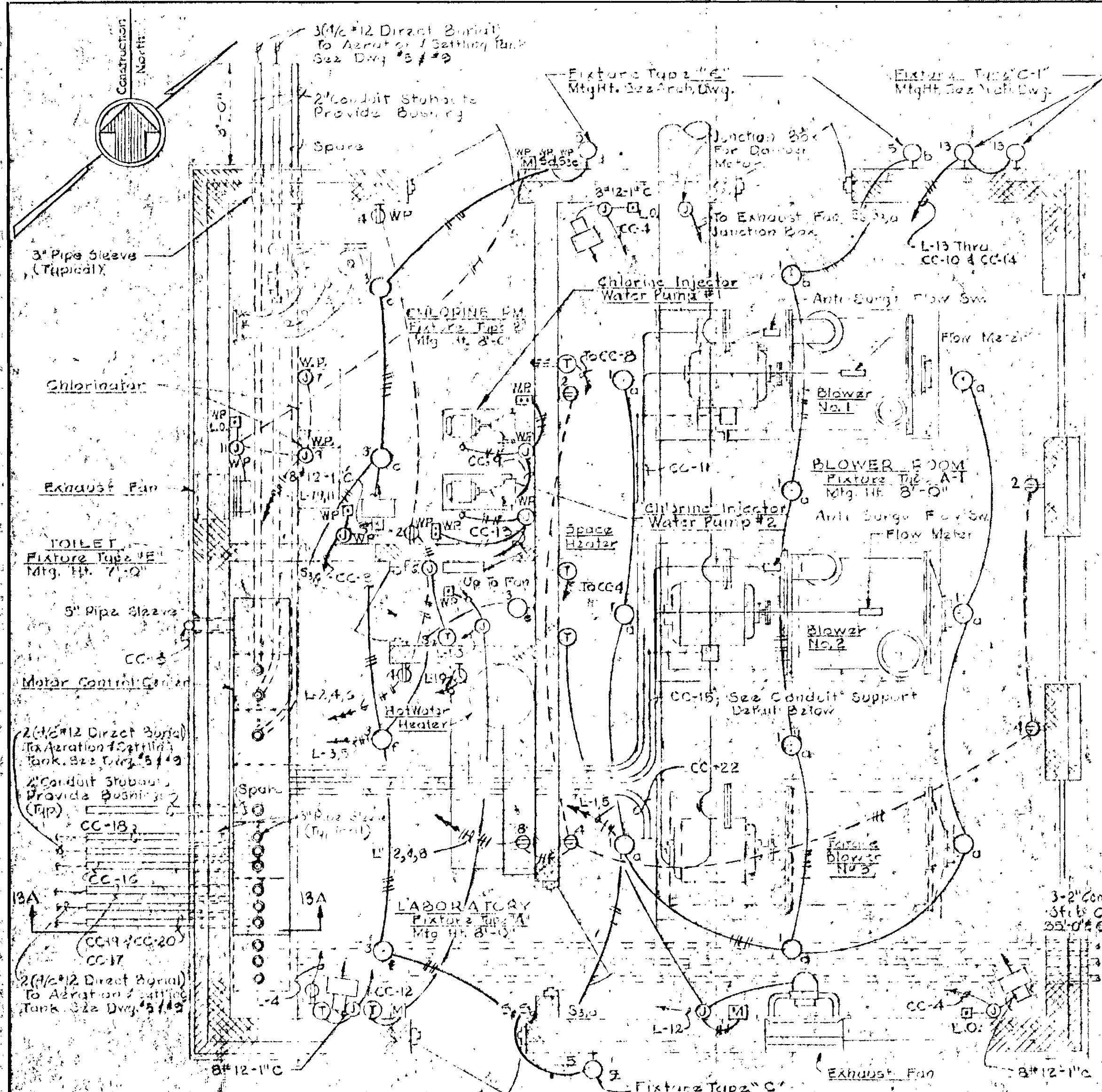
BLOWER BUILDING
 ARCHITECTURAL

PATUXENT SUB-DISTRICT

CONTRACT No 55-S
 DRAWING NO. 11 OF 1A
 SCALE AS SHOWN

No.	Date	Revision
1	10-30-64	Dimensions revised and added.





MOTOR CONTROL CENTER 480/265V, 3φ, 4W

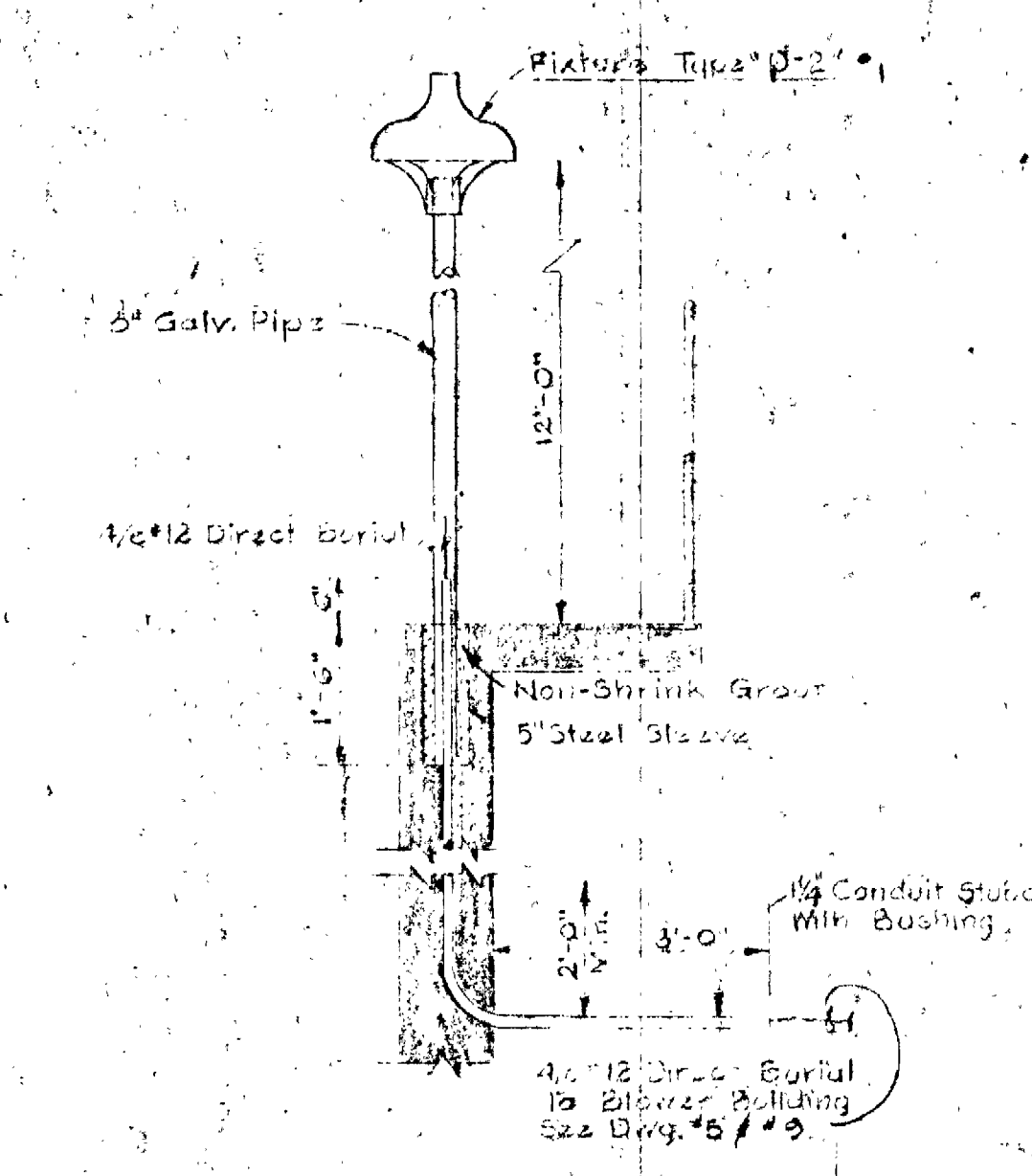
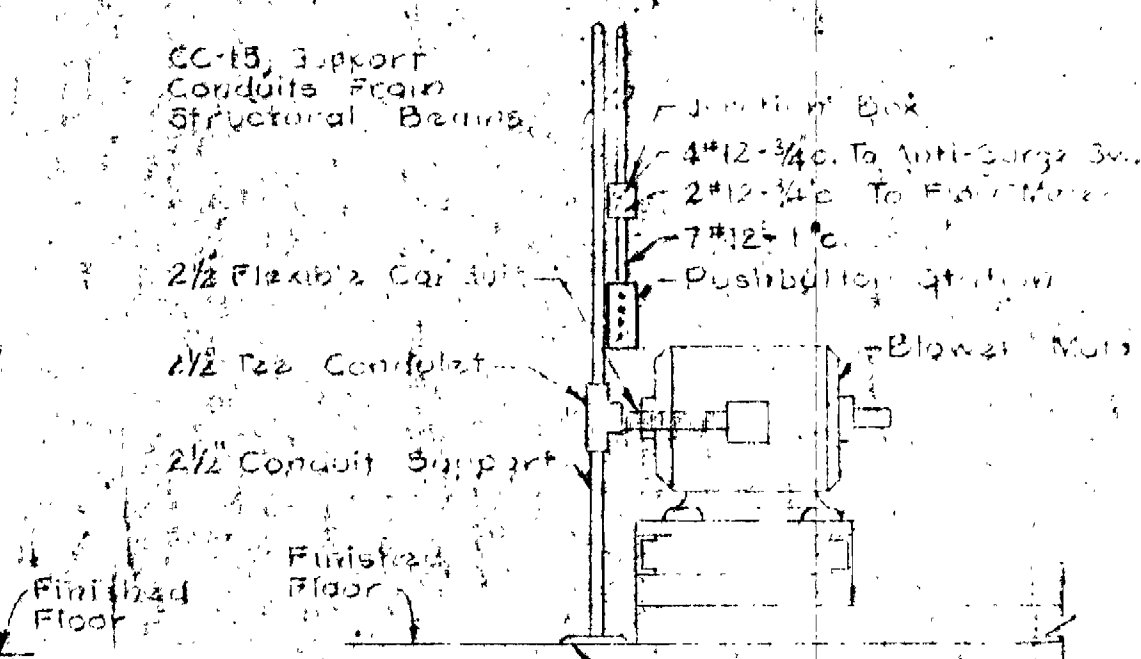
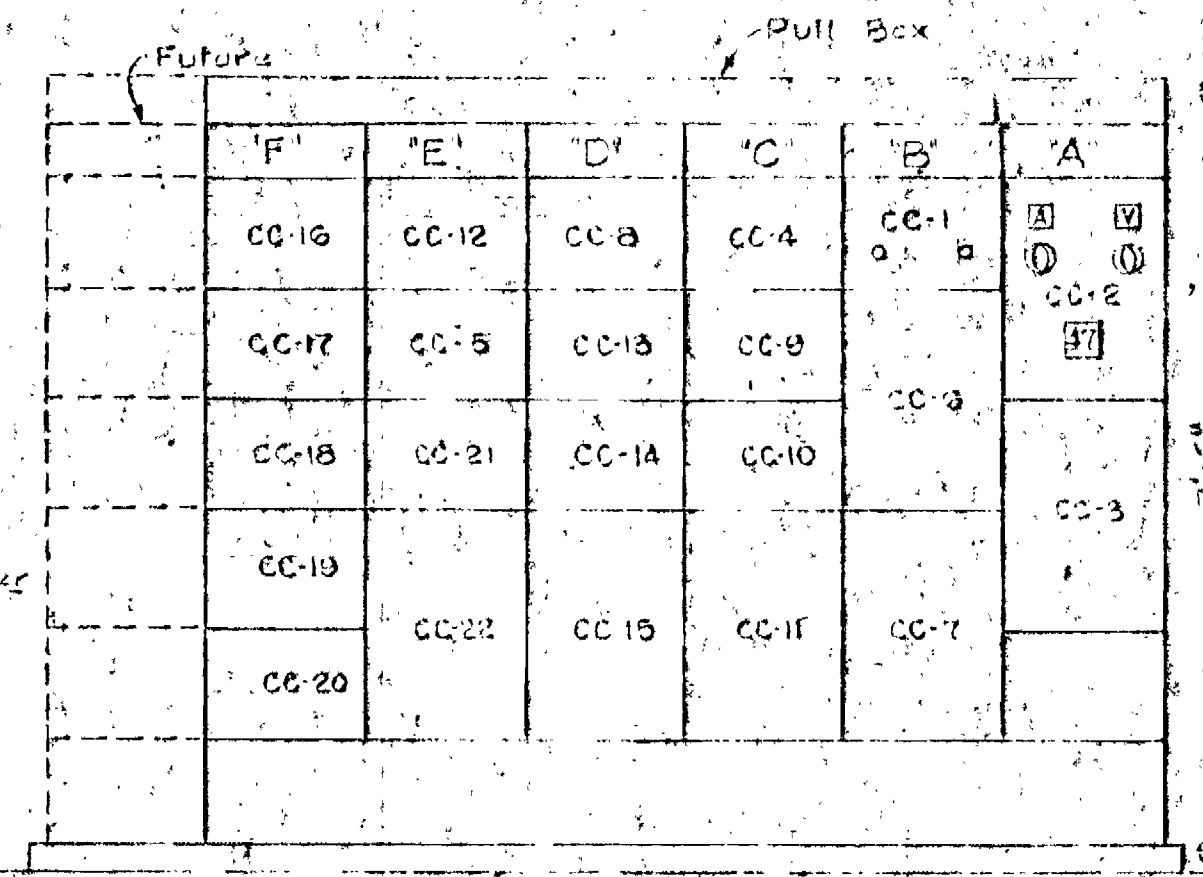
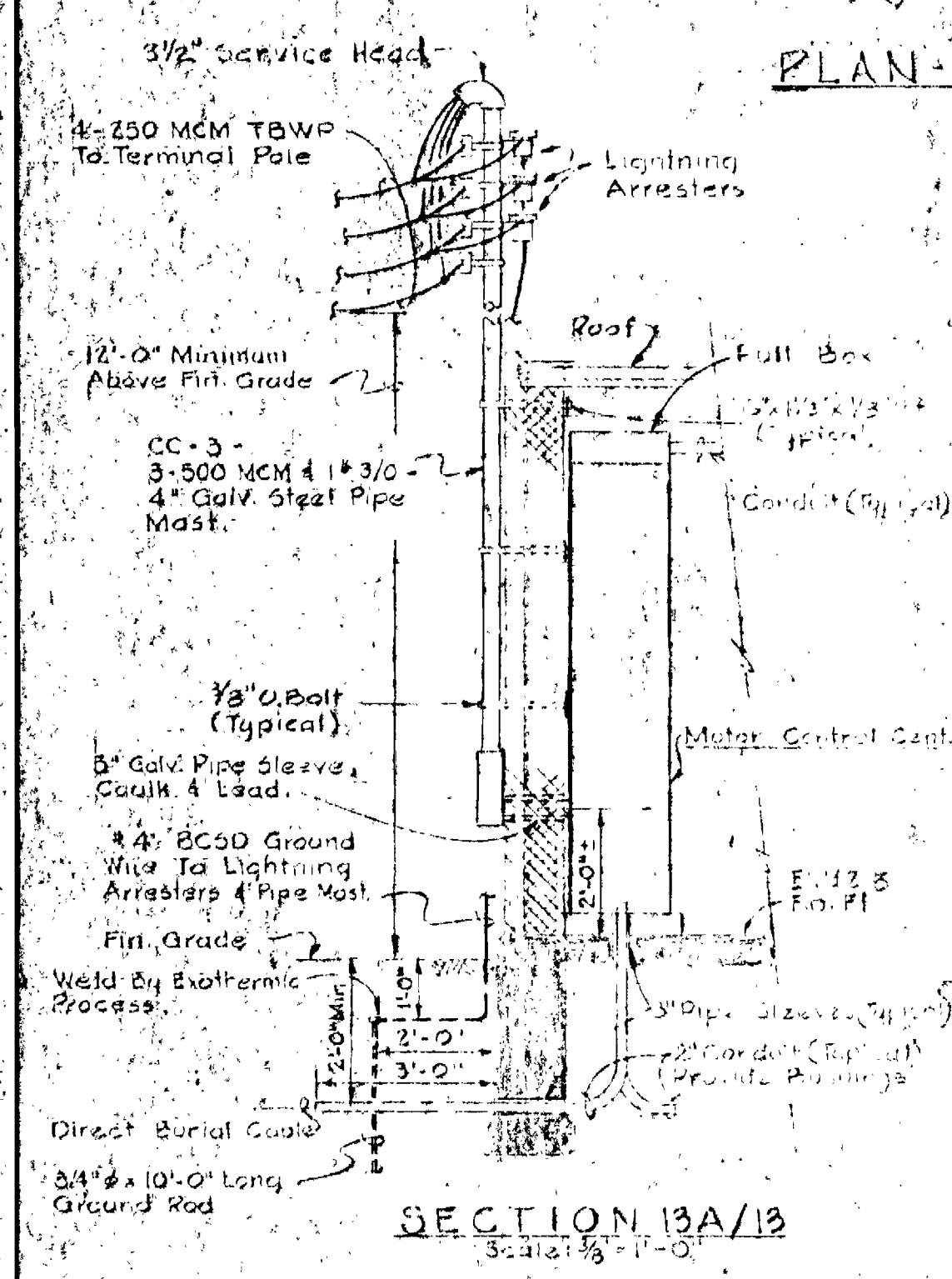
CIRCUIT NO.	NAME PLATE DATA	DEVICE DESCRIPTION	AUXILIARY DESCRIPTION	BREAKER		CALIB	NO	SIZE	TYPE	FOR	CONDUIT	
				FRAME	POLE						SIZE	WIRE SIZE
CC-1	Prim. Brkr. Mtron Spare	Circuit Breaker	See Drawing	100	3	20	3	3/4"	RHW	Power	2 1/2"	4
CC-2	See Drawing	Meters & Control Relay	See Drawing	100	3	20	3	3/4"	RHW	Power	2 1/2"	4
CC-3	Main Breaker	Circuit Breaker	See Spec.	600	3	400	3	500/400	RHW	Power	4"	14
CC-4	Unit Heaters Chlorine Room	Combination Starter NEMA Size 2 FVNR	X1, X3, X5	100	3	20	3	1/2"	RHW	Power Control	1"	14
CC-5	Spare	Combination Starter NEMA Size 1 FVNR	X1, X2, X3, X4	100	3	20	3	1/2"	RHW	Power Control	1"	14
CC-6	Panel L-120/265V	22 Circuit Panel Board Type NALB-4	See Specifications	See Panel Schedule	See Specifications	See Specifications	See Specifications	See Specifications	See Specifications	See Specifications	See Specifications	See Specifications
CC-7	Transformer 480-265V/170V	15 KVA 3φ Transformer 480-265V/170V	See Specifications									
CC-8	Unit Heaters Chlorine Room	Combination Starter NEMA Size 1 FVNR	X1, X3, X5	100	3	15	3	1/2"	RHW	Power Control	1"	14
CC-9	Chlorine Injector Water Pump #1	Combination Starter NEMA Size 1 FVNR	X1, X2, X4, X5	100	3	15	3	1/2"	RHW	Power Control	1"	14
CC-10	Controls Blower #1	Relays Power Failure Resetting Timer	See Specification									
CC-11	Blower #1	Combination Starter NEMA Size 4 FVNR	X1, X2, X3, X7, X8	400	3	150	3	2 1/2"	RHW	Power Control	2 1/2"	4
CC-12	Unit Heaters Laboratory	Combination Starter NEMA Size 1 FVNR	X1, X3, X5	100	3	15	3	1/2"	RHW	Power Control	1"	14
CC-13	Chlorine Injector Water Pump #2	Combination Starter NEMA Size 1 FVNR	X1, X2, X4, X5	100	3	15	3	1/2"	RHW	Power Control	1"	14
CC-14	Controls Blower #2	Relays 2 Circuit Alternator	See Specifications									
CC-15	Blower #2	Combination Starter NEMA Size 4 FVNR	X1, X2, X3, X7, X8	400	3	150	3	2 1/2"	RHW	Power Control	2 1/2"	4
CC-16	Spring Water Pump #1	Combination Starter NEMA Size 1 FVNR	X1, X2, X4, X5	100	3	15	3	1/2"	RHW	Power Control	1"	14
CC-17	Spring Water Pump #2	Combination Starter NEMA Size 1 FVNR	X1, X2, X4, X5	100	3	15	3	1/2"	RHW	Power Control	1"	14
CC-18	Bludge Coil Control	Combination Starter NEMA Size 1 FVNR	X1, X2, X4, X5	100	3	15	3	1/2"	RHW	Power Control	1"	14
CC-19	Seepage Pump #1	Combination Starter NEMA Size 1 FVNR	X1, X2, X4, X5	100	3	15	3	1/2"	RHW	Power Control	1"	14
CC-20	Seepage Pump #2	Combination Starter NEMA Size 1 FVNR	X1, X2, X4, X5	100	3	15	3	1/2"	RHW	Power Control	1"	14
CC-21	Future Controls Future Blower #3	Space & Bus	See Specifications									
CC-22	Future Blower #3	Space & Bus	See Specifications									

* See Plan Drawings For Conduit Sizes

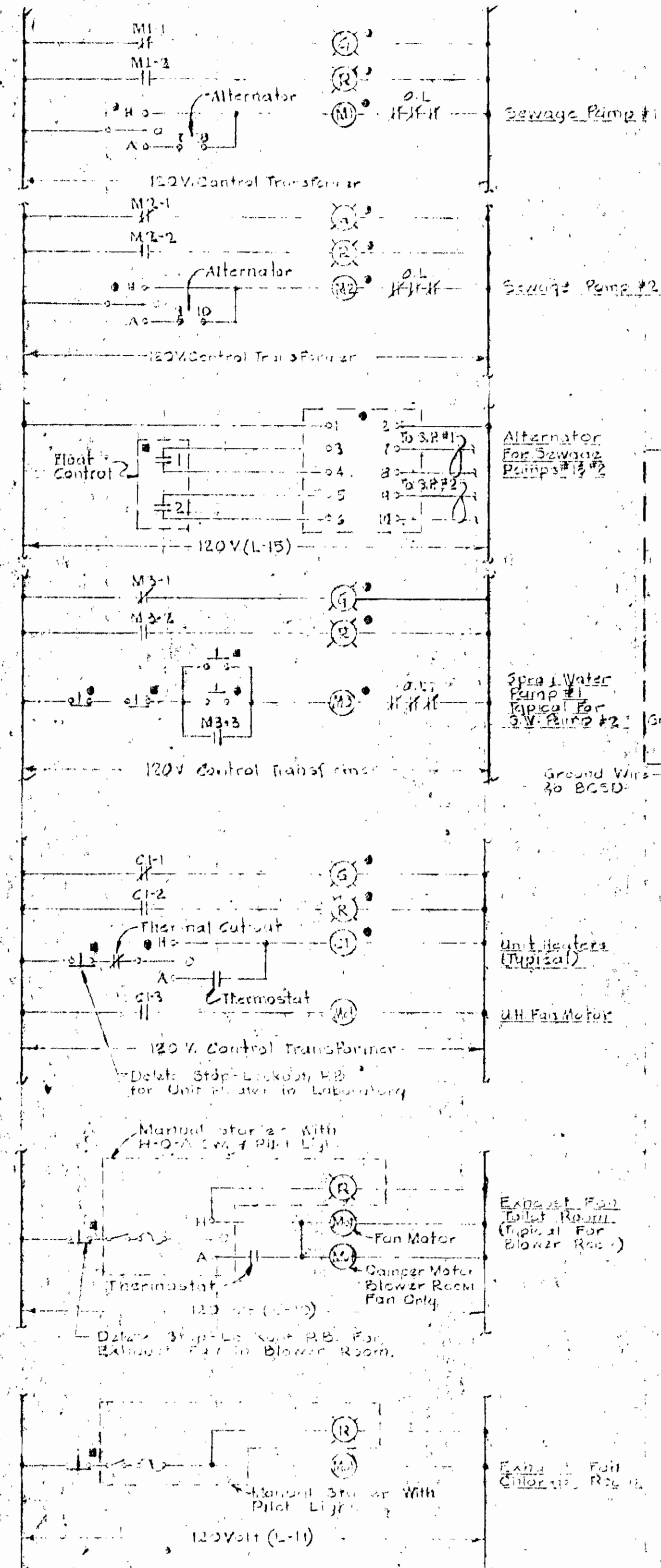
- ### LEGEND
- Outlet In Basement Ceiling Wall
 - ⊕ Junction Box
 - ⊕ Outlet Duplex Convenience Mtg. Ht. 2'-0"
 - ⊕ Switch - Single Pole - Three Way
 - ⊕ Thermostat - Timer
 - ⊕ Flow Meter - Unit Heater
 - ⊕ Flexible Conduit
 - ⊕ Pressure Switch - Lockout Pushbutton
 - ⊕ Device 47
 - ⊕ Conduit - In Floor
 - ⊕ Conduit - In Or On Ceiling Or Wall
 - ⊕ Service Drop - No. & Size of Wire As Indicated
 - ⊕ Weatherhead & Rack
 - ⊕ Home Run To Panelboard
 - ⊕ Limit Switch - Solenoid
 - ⊕ Manual Starter - Magnetic Starter
 - ⊕ Voltmeter - Ammeter
 - ⊕ Voltmeter Switch - Annunciator Switch
 - ⊕ Outlet - 20A, 250V Receptacle & Plug - Pol. 120-0 - AH, Cat. #7310 B - Mtg. Ht. 5'-0"
 - WP. Indicator NEMA Type Enclosure
 - ⊕ Mechanical Overload Switch

- ### MCC AUXILIARY DESCRIPTION LEGEND
- X1 Red & Green Indicating Lights
 - X2 Third Overload Relay
 - X3 Hand-Off Automatic Selector Switch
 - X4 Start-Stop Pushbutton Station
 - X5 480/170 Control Transformer
 - X6 Auxiliary Switch in Breaker
 - X7 Red Indicating Alarm Light

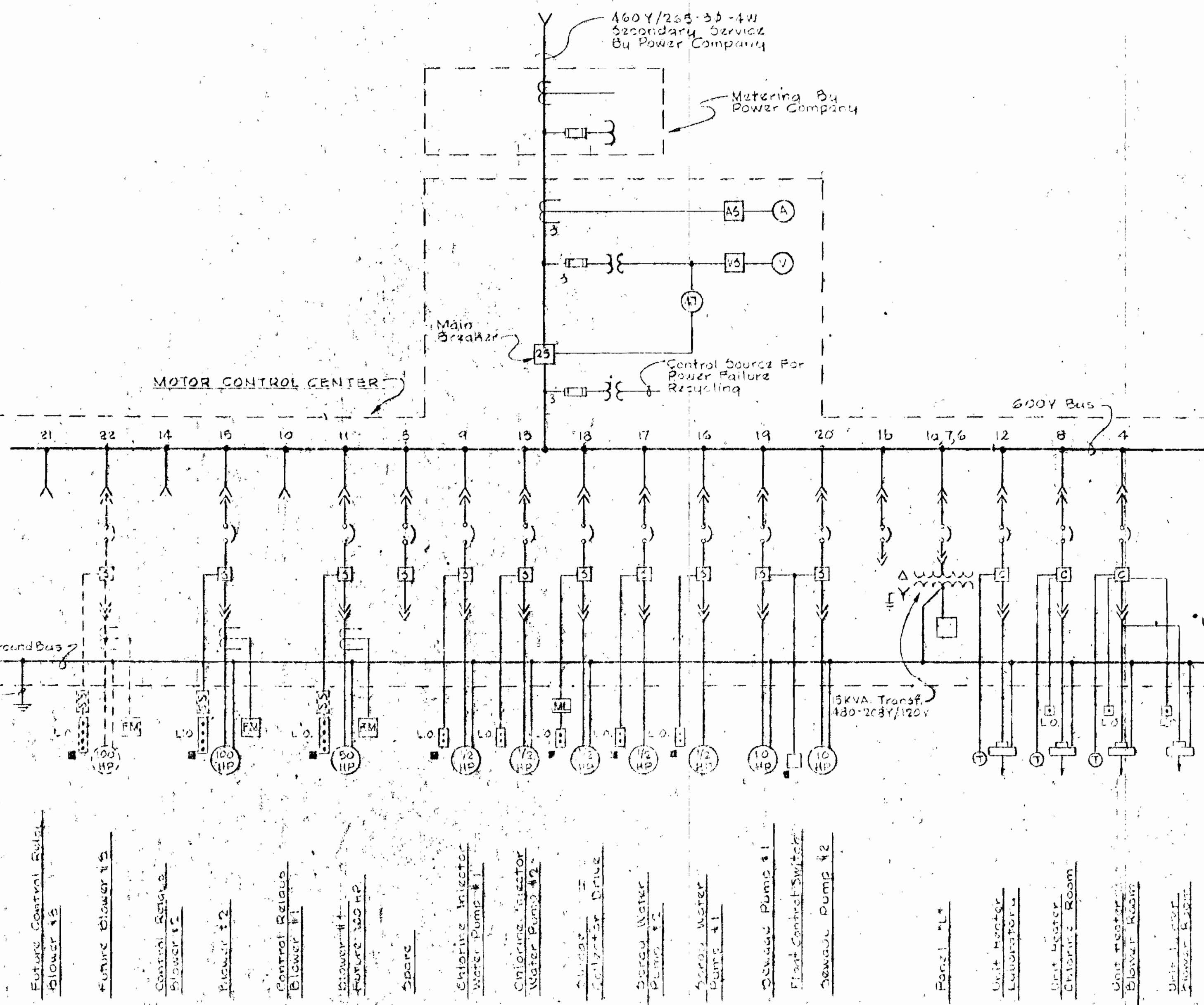
- ### LOCATION SYMBOLS
- ⊕ Equipment Located At Motor
 - ⊕ Equipment Located At Pump
 - ⊕ Equipment Located At Blower
 - Equipment Located In MCC



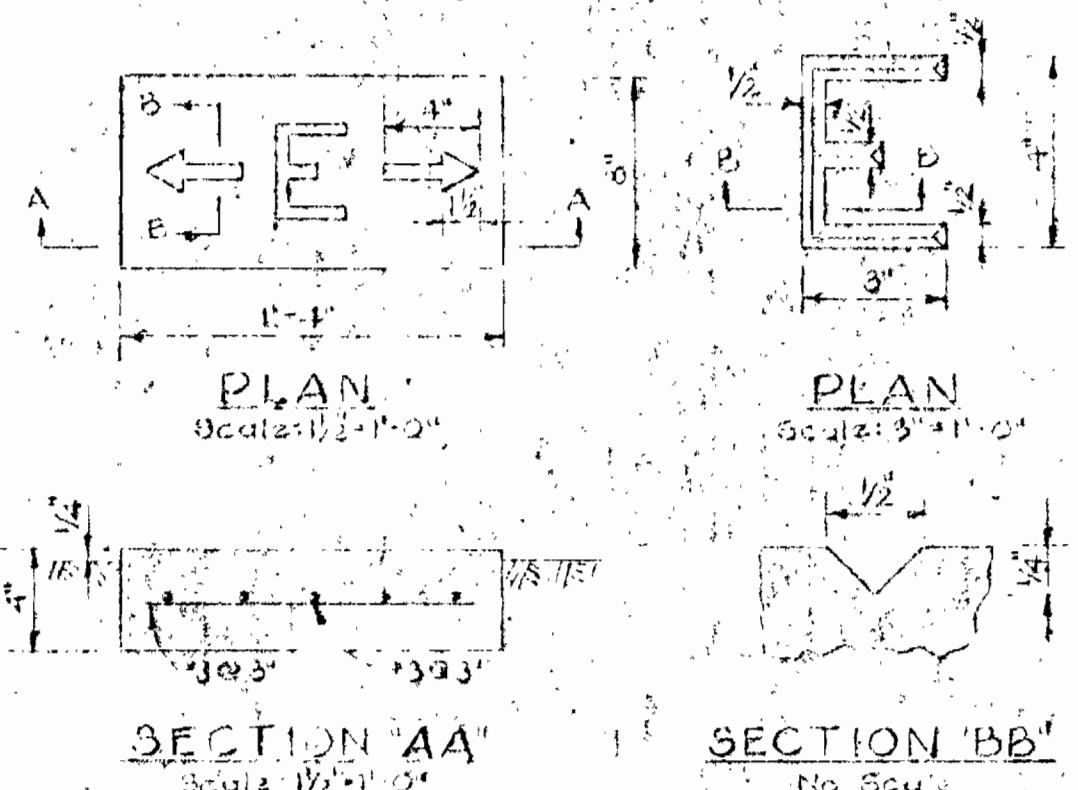
- ### NOTES
- All Electrical conduits leaving and entering the chlorine room shall be provided with conduit seals.
 - For Outside Electrical Distribution See Drawing No. 5
 - For Electrical Work At Lift Station Manhole, See Drawing No. 5
 - For Fixture Types, See Specifications



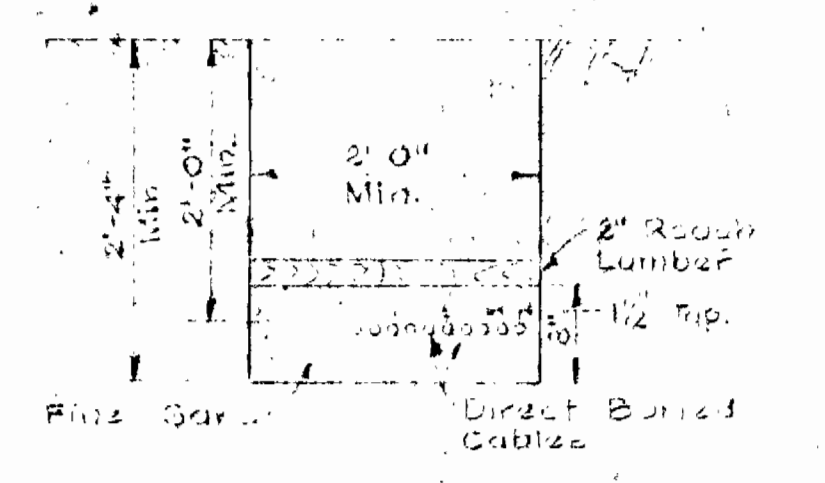
ELEMENTARY CONTROL WIRING DIAGRAMS



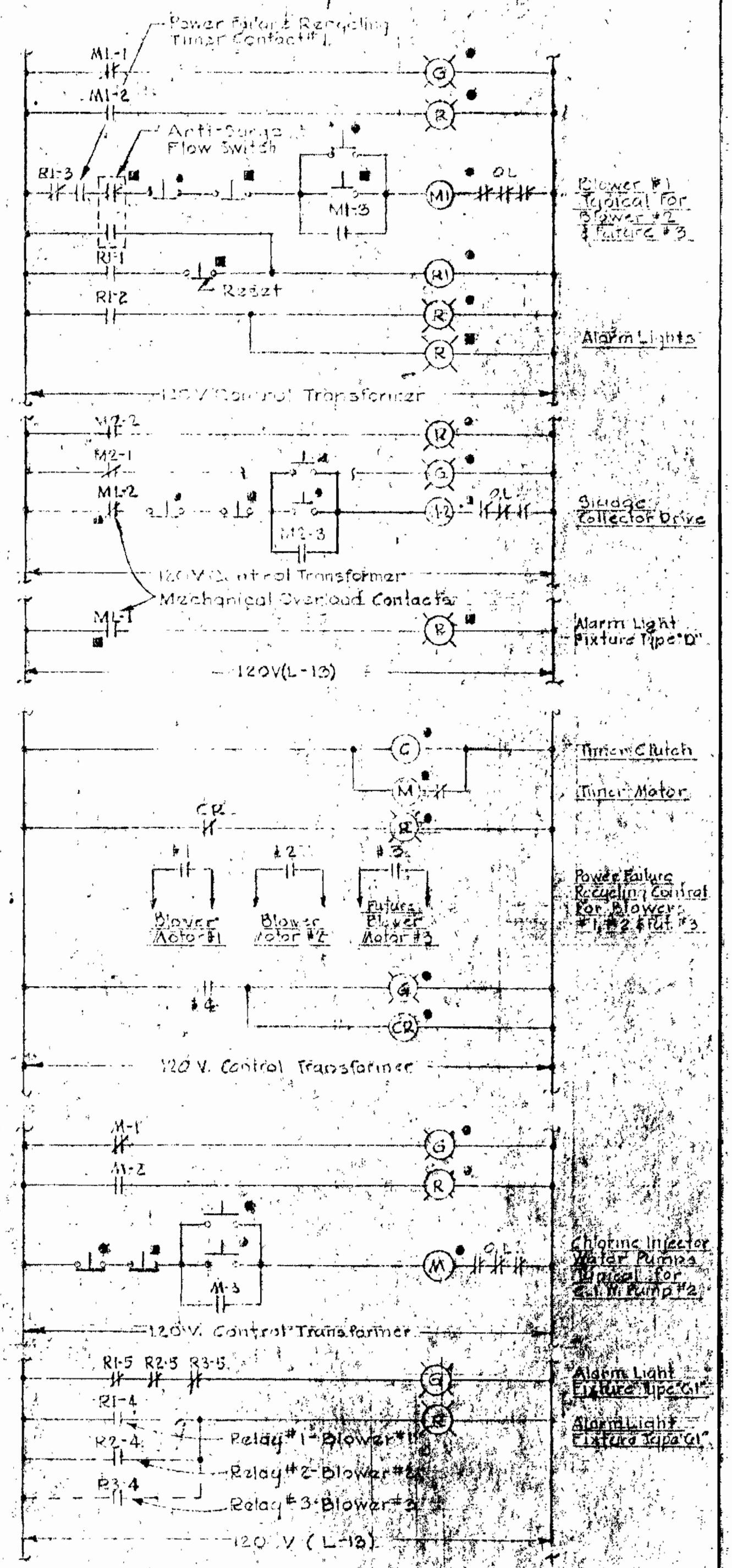
ONE LINE WIRING DIAGRAM



DETAIL OF UNDERGROUND CABLE MARKER



TYPICAL END VIEW DETAIL DIRECT BURIAL CABLES



ELEMENTARY CONTROL WIRING DIAGRAMS

- NOTES
1. For Plan of Blower Building, Electrical Legend, Motor Control Center Legend & Location Symbols See DWG #13
 2. For Fixtures Types, See Specifications
 3. For Outside Electrical Distribution See DWG #8
 4. For Electrical Work at Marholz Lift Pumping Station See DWG #5

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION
April 10, 1943
DATE
Chief Engineer

CONTRACT NO. 55-S

ELECTRICAL
WIRING DIAGRAMS

PATUXENT SUB-DISTRICT

Contract No. 55-3
DRAWING NO. 14 OF 14
SCALE AS SHOWN