

END OF DOCK

DOUGLAS COUNTY PROPERTY

CITY OF SUPERIOR PROPERTY
WL. 603.24 U.S.G.S DATUM
SEPTEMBER 20, 1947

Contractor to install 20' roadway from N. ROW Line

EXISTING OUTLET HEADWALL
INV. EL. 600.39

INV. EL. 599.14

SCALE HOUSE

R.R. ROW

NOTE: CONTRACTOR TO CONNECT EXISTING BOX SEWER TO NEW BY-PASS STRUCTURE

EXISTING 24" R.C.P. BOX SEWER

24" R.C.P. SEWER LINE TO BE INSTALLED UNDER CONTRACT

INV. EL. 600.61

EXISTING MANHOLE

24" R.C. PIPE IN PLACE NOT IN USE AT PRESENT
INV. EL. 599.85

SCALE: 1" = 100'



PLAN & PROFILE OF NEW 24" R.C.P.

EXISTING 4'-0" X 5'-6" SEWER NOW IN USE

2 ND ST.

AVE. C

EXISTING 27" R.C.P. AVE. D

AVE. E

3rd St

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH DIVISION
These Plans and Specifications submitted in connection with an Application for a permit under the Federal Water Pollution Control Act (33 USC 402) and the regulations promulgated thereunder have been reviewed.
(Reviewing Engineer) (Date)
and are herewith APPROVED
(Regional Engineer) (Date)
Region V, Chicago, Illinois

EXAMINED and reported upon by the Section on Environmental Sanitation
O. J. MUEGGE
State Sanitary Engineer
APPROVED by the State Board of Health, as required by Wisconsin Statutes, subject to conditions set forth in the letter of approval
JUL 6 1956
CARL N. NEUBERT, M. D.
State Health Officer
Verification *[Signature]*

REVISIONS

DATE	DESCRIPTION	BY
11/65	Add Details for Sewer	R.C.

WATERFRONT AT DISPOSAL SITE
SUPERIOR, WIS.

HITCHCOCK & ESTABROOK, INC.
CONSULTING ENGINEERS
311 SEXTON BLDG.
MINNEAPOLIS 15, MINN.

DR. TR. C.H.U. CHU
CHKD. APPD. JBE JBE
DATE 9/17/58 SCALE 1"=50'

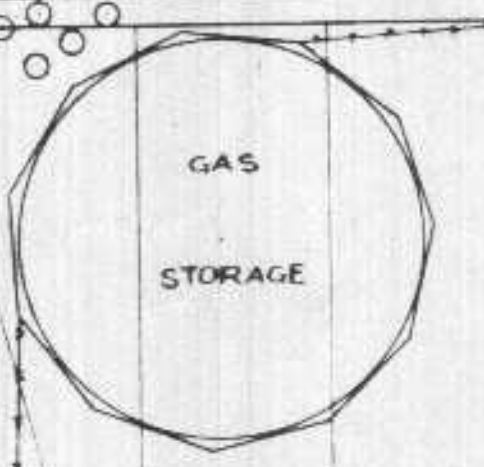
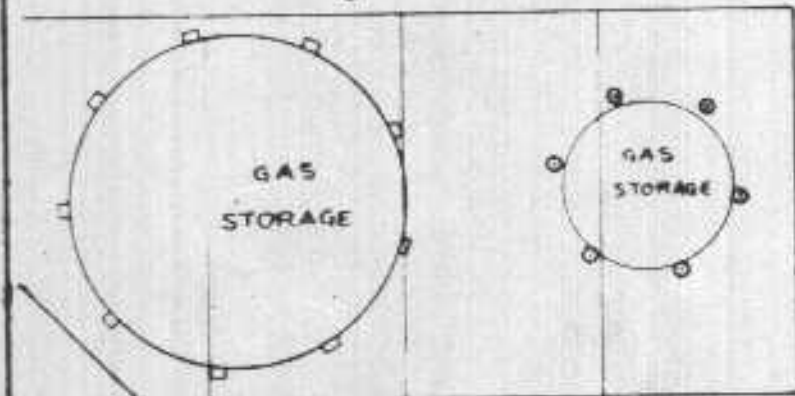
PROJECT NO. 400
SHEET NO. 11 of 11

1st St

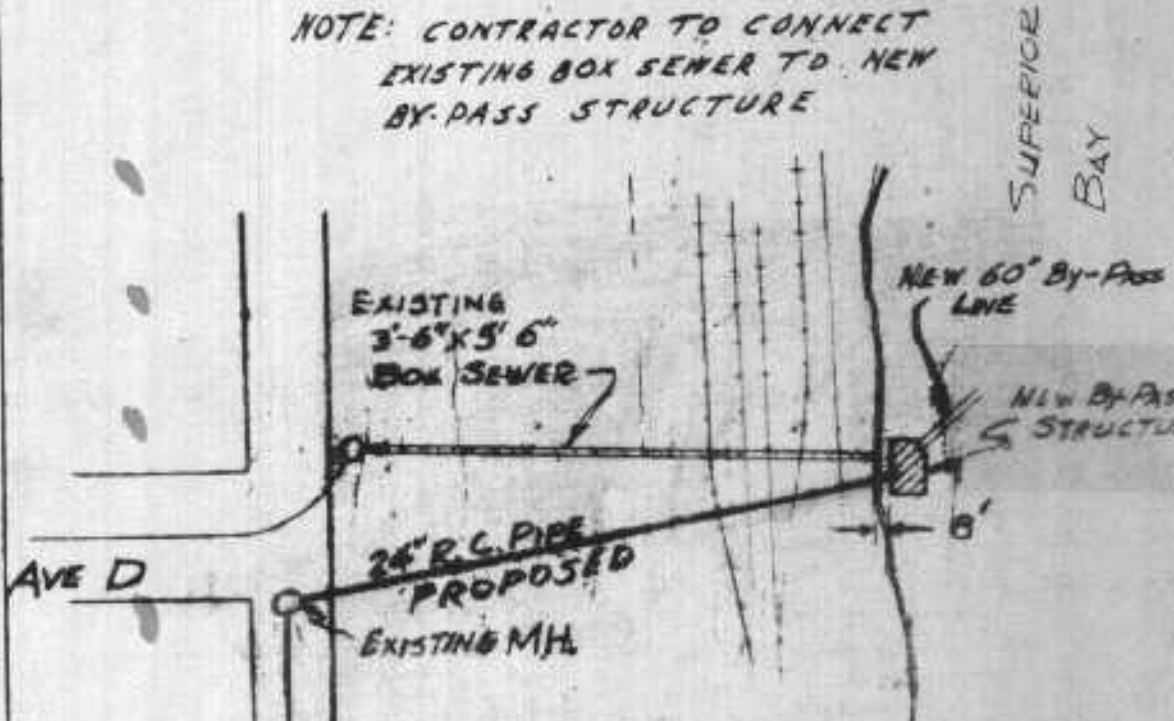
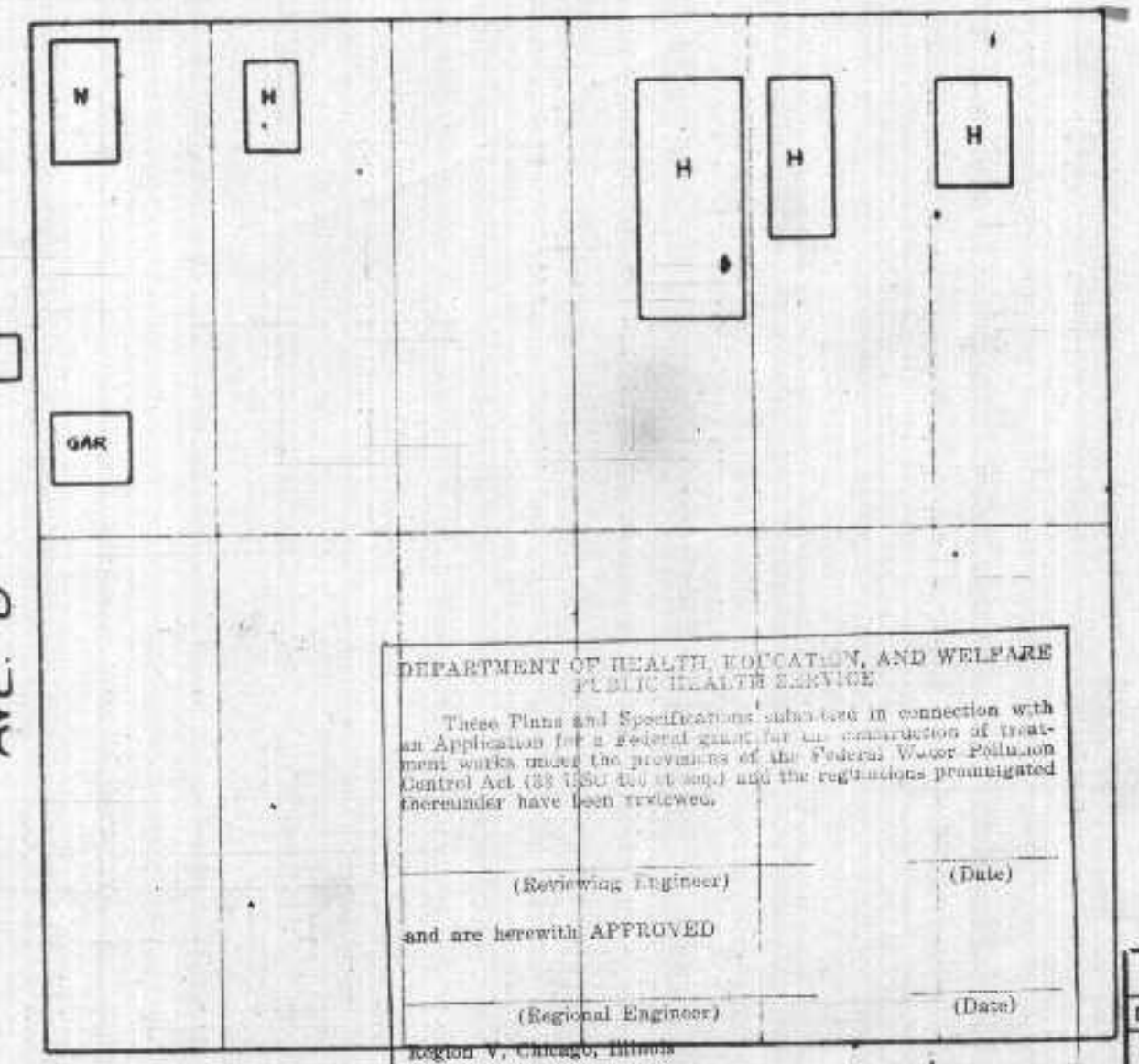
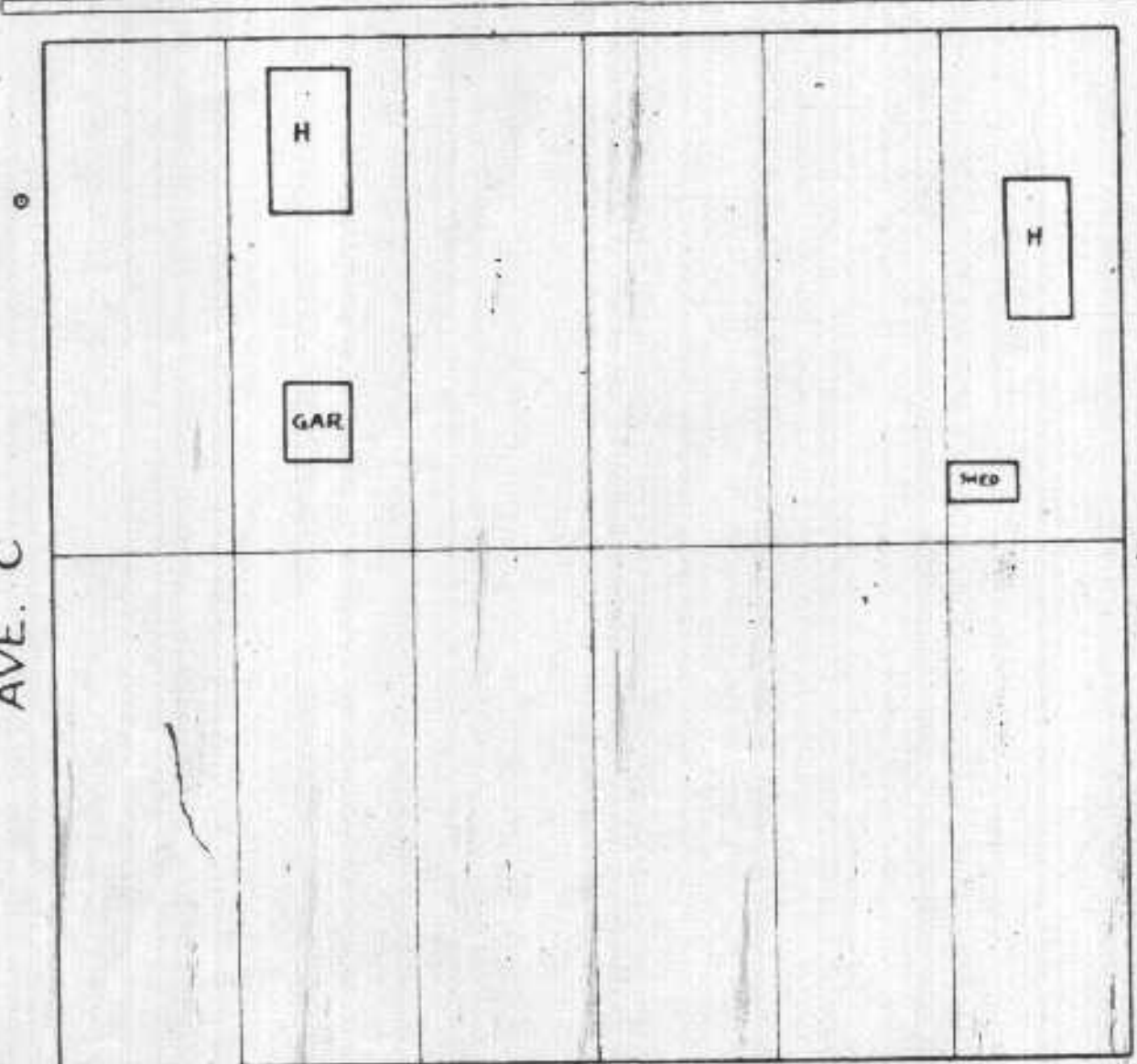
WINTER ST

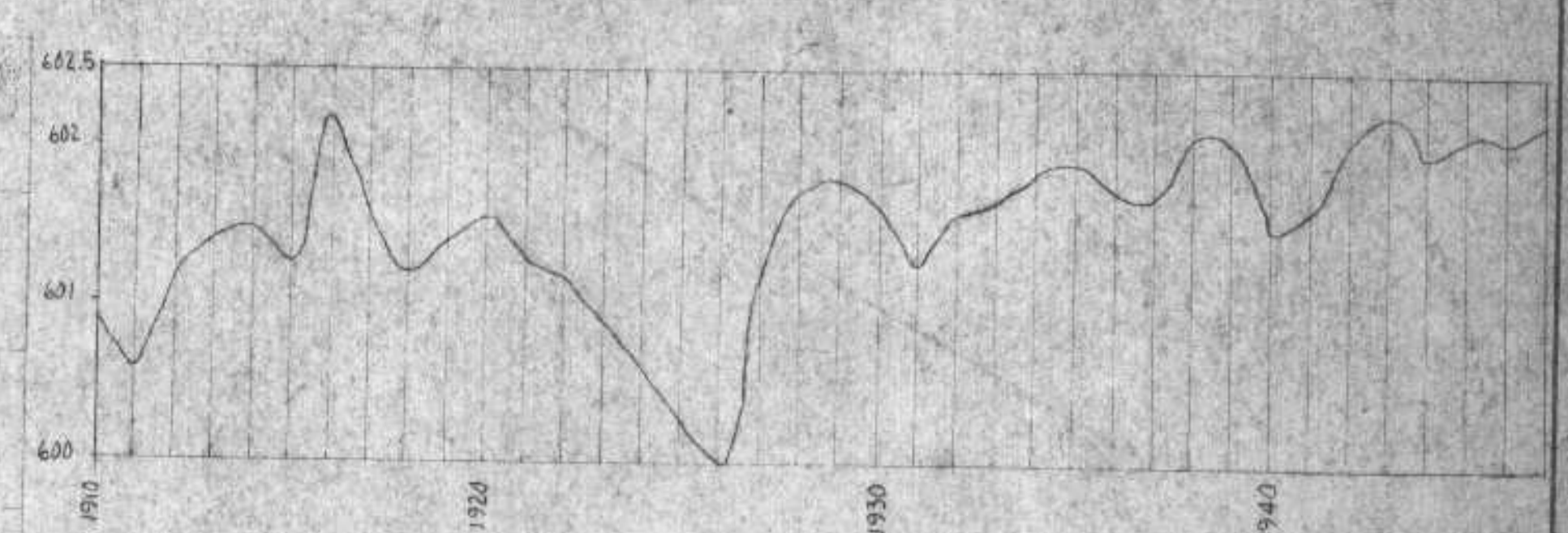
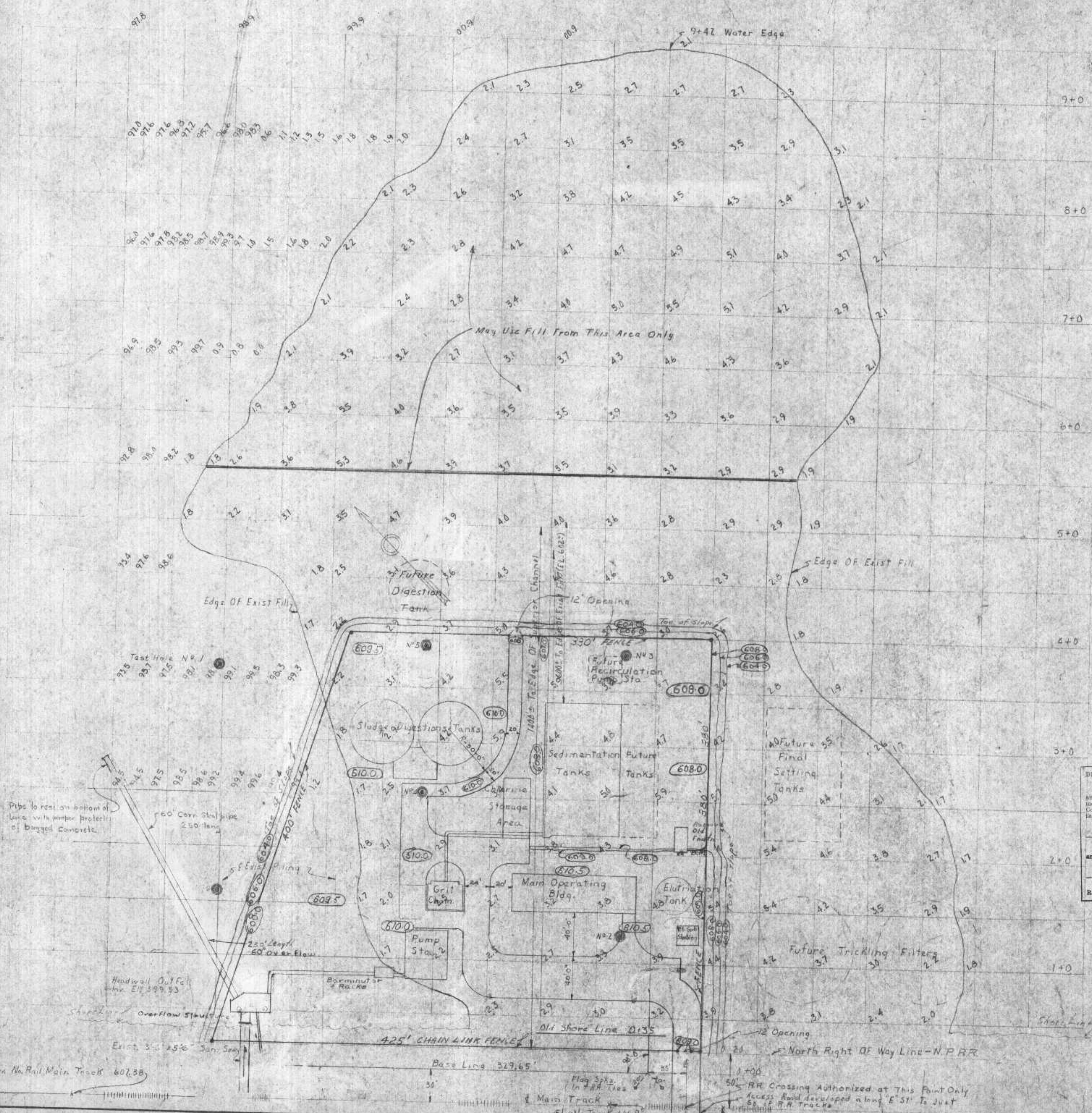
HILL AVE

B.M. PROPERTY OF CITY OF SUPERIOR
PERMANENT BENCH MARK
ELEVATION 614.372
U.S.C. & G.S. 360
1929

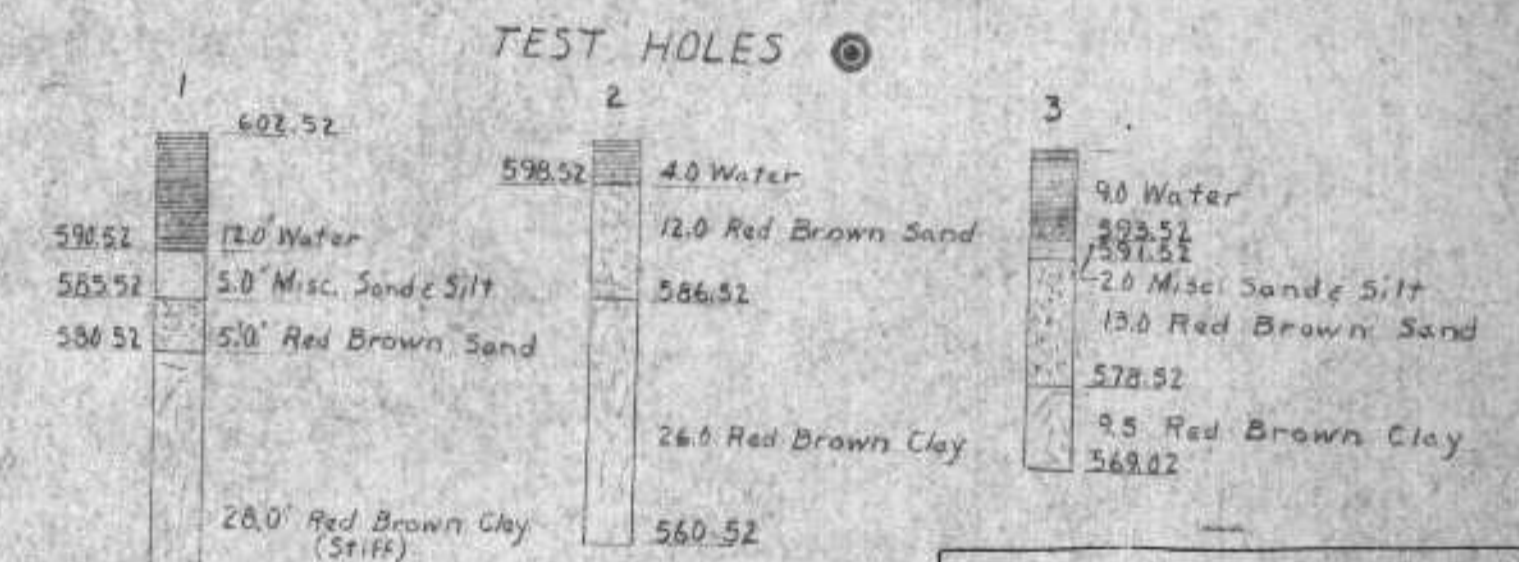


PUMP HOUSE

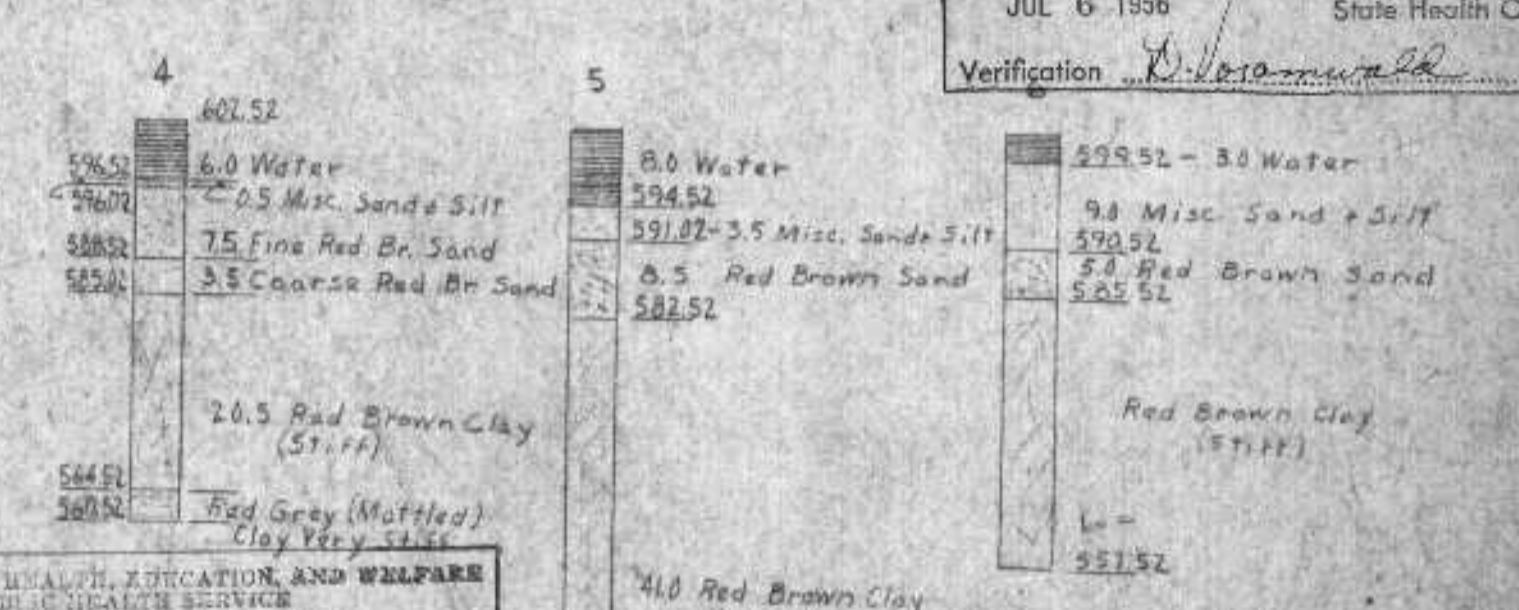




Note:
 Highest Recorded Reading Nov. 25, 1905 - 604.40
 Lowest Recorded Reading Feb. 16, 1921 - 598.85
**MEAN YEARLY READING
 WATER LEVEL OF LAKE SUPERIOR**



EXAMINED and reported upon by the Section on Environmental Sanitation
 O. J. MUEGGE
 State Sanitary Engineer
 APPROVED by the State Board of Health, as required by Wisconsin Statutes, subject to conditions set forth in the letter of approval
 CARL N. NEUBERT, M.D.
 State Health Officer
 JUL 6 1958
 Verification: *[Signature]*



DEPARTMENT OF HEALTH, EDUCATION AND WELFARE
 PUBLIC HEALTH SERVICE
 This Plan and Specifications submitted in connection with an application for a permit under the provisions of Wisconsin Statutes, Chapter 101, and Chapter 102, and the regulations promulgated thereunder have been reviewed.
 (Revising approved) (Initial)
 and are herewith approved
 (Regional Engineer) (Initial)
 Region V, Chicago, Illinois

LEGEND -
 Existing Elevation 604.0 = 4.0
 Established Grade 610.5

NOTE:
 Piles shall be set not more than 10' C.C.
 Finished grade shall slope from building to drain.
 Fill of water cage shall be sloped 3 to 1 or greater

BOILING LOG [see Specs. page C-8]

DATE	DESCRIPTION	BY
6/10/58	As per Specs. - changed 1-6-8	J. D.
6/10/58	Plan to office and	J. P.
6/10/58	WATER AND SEWER REWORK	M.E. 8/3

GRADING AND FENCING PLAN

SUPERIOR WISE

HITCHCOCK & ESTABROOK, INC.
 CONSULTING ENGINEERS
 300 LINCOLN BLDG.
 MINNEAPOLIS 1, MINN.

DR. TR. J.L. J.P.
 CHRD. APPD. M.E. 8/3

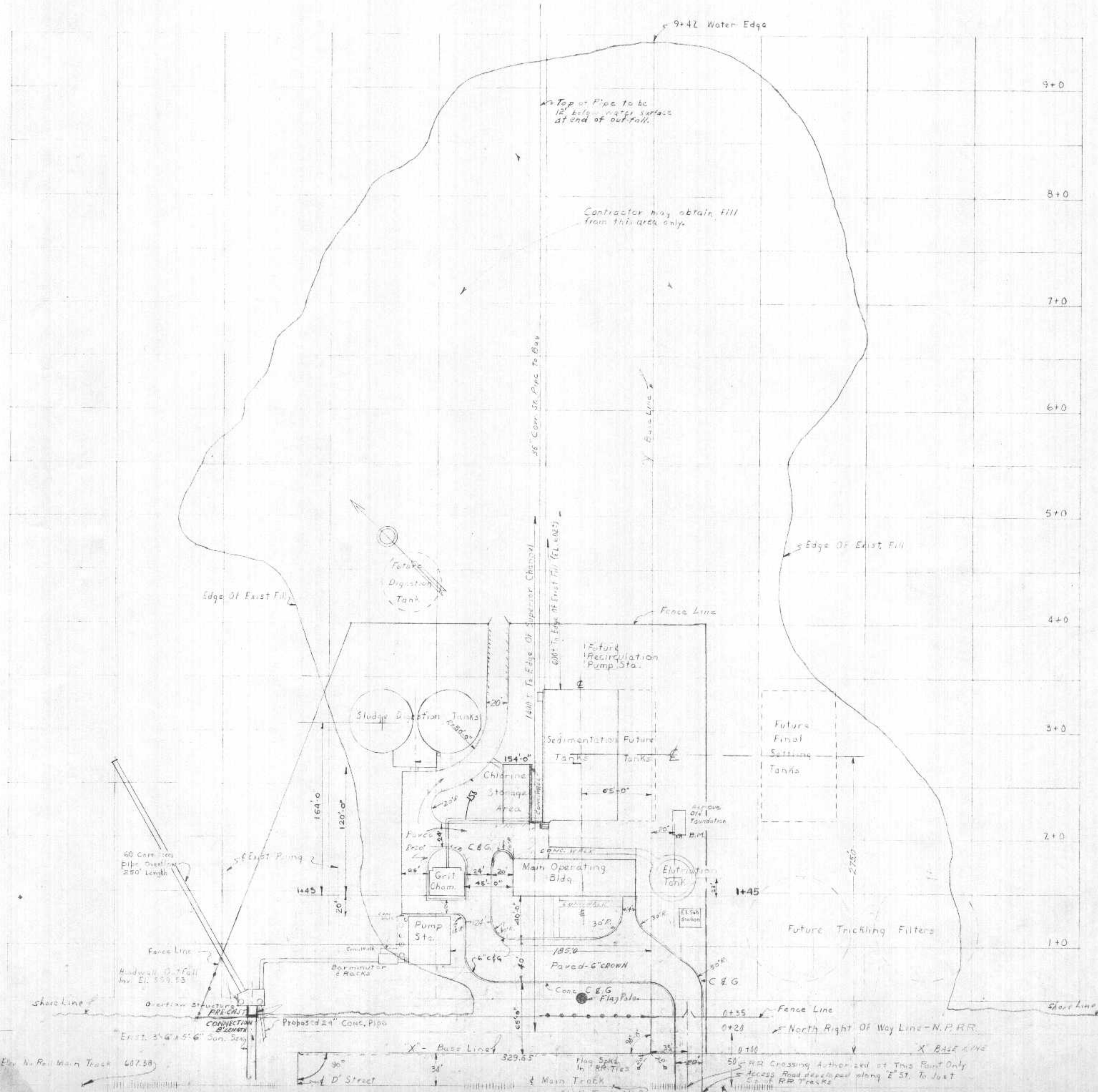
DATE 7/2/58 SCALE 1" = 50'

JOB NO. 602
 SHEET NO. 12 OF 71

15.0 x 6.5 Bench Mark
 Hill Ave. - Winter St. 44.372
 B.M. on End Old Machine
 Foundation - Sta. 240 - 607.98

Elon No. Rail Main Track 607.38

Base Line 329.65
 Main Track 616.9
 EL. No. Track 446.0
 50' RR Crossing Authorized at This Point Only
 Access Road developed along E.S.P. to Just
 S. of RR Tracks



U.S.G. +65 Bench Mark
 Hill Ave + Winter St. 644.372
 B.M. To End Old Machine
 Foundation - Sta 2+0 607.98

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
 PUBLIC HEALTH SERVICE

These Plans and Specifications submitted in connection with an application for a Permit to construct or reconstruction of treatment works under the provisions of the Federal Water Pollution Control Act (PL 85-624) and the regulations promulgated thereunder have been reviewed.

(Reviewing Engineer) _____ (Date) _____
 and are herewith APPROVED

(Regional Engineer) _____ (Date) _____
 Region V, Chicago, Illinois

EXAMINED and reported upon by the Section on Environmental Sanitation

O. J. MUEGGE
 State Sanitary Engineer

APPROVED by the State Board of Health, as required by Wisconsin Statutes, subject to conditions set forth in the letter of approval

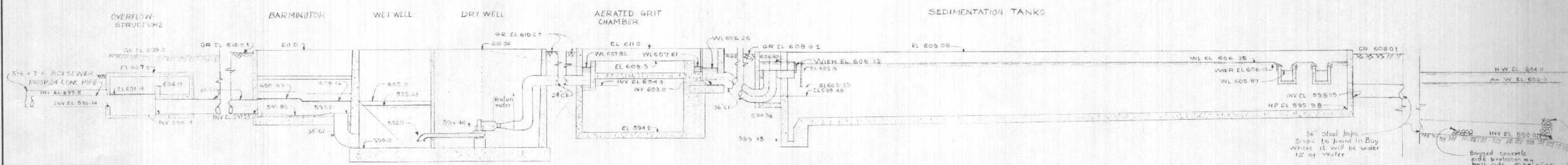
JUL 6 1956 CARL M. NEUPERT, M. D.
 State Health Officer

Verification *D. Rosamond*

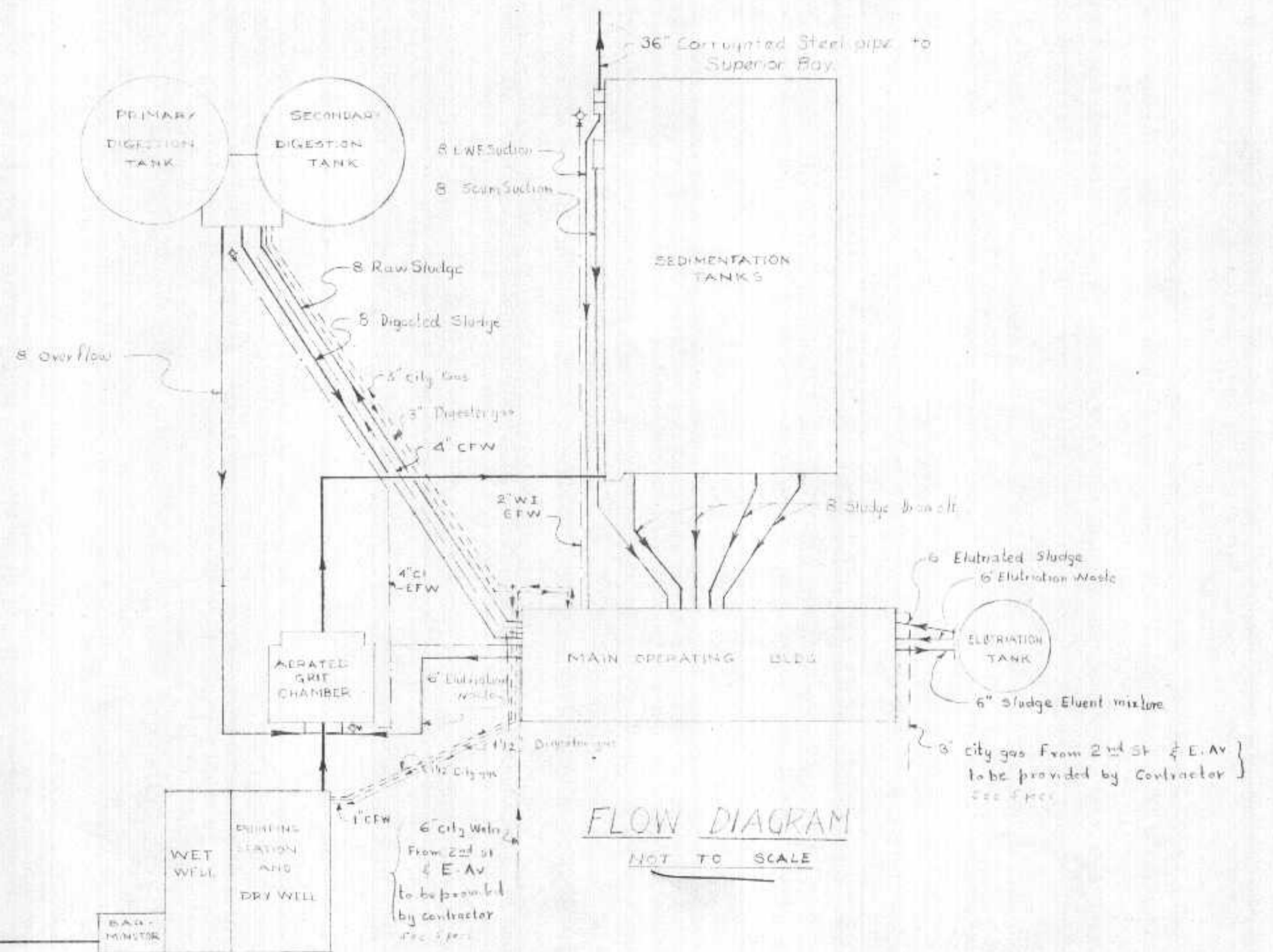
Note:
 Curb & Gutter to be
 8" H
 18" W
 Minn Highway Dept. Plate 710B
 Slope 1% MIN TO DRAIN PROPERLY
 CONTRACTOR TO INSTALL 8" PRECAST
 CONNECTION ON PILING, FROM PRESENT
 OUTFALL SEWER TO NEW BY-PASS STRUCTURE
 AND SEAL TO PREVENT LEAKAGE.

REVISIONS			SEWAGE TREATMENT PLANT GENERAL LAYOUT	
DATE	DESCRIPTION	BY		
7/6/56	CHANGE FROM 10" TO 12" DIA. CONC. PIPE	J.L.	SUPERIOR WIS.	
7/6/56	REMOVED WHITE SANDS BRIDGE	J.L.	HITCHCOCK & ESTABROOK, INC. CONSULTING ENGINEERS 300 LINCOLN BLDG. MINNEAPOLIS 1, MINN.	

DR. J.L.	TR. _____	JOB NO. 400
CHKD. _____	APPD. _____	SHEET NO. 13 OF 71
DATE: 7/6/56		SCALE: 1" = 20'



HYDRAULIC PROFILE [FOR MAX FLOW]
SCALE 1"=10' 0" VERT.; 1"=10' 0" HOR.



FLOW DIAGRAM
NOT TO SCALE

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE

These Plans and Specifications submitted in connection with an Application for a Permit to construct of treatment works under the provisions of the Federal Water Pollution Control Act (U.S.C. 405) and the regulations promulgated thereunder have been reviewed.

(Reviewing Engineer) _____ (Date) _____
and are herewith APPROVED

(Regional Engineer) _____ (Date) _____
Region V, Chicago, Illinois

EXAMINED and reported upon by the Section on Environmental Sanitation

O. J. MUEGGE
State Sanitary Engineer

APPROVED by the State Board of Health, as required by Wisconsin Statutes, subject to conditions set forth in the letter of approval

JUL 6 1958
CARL N. NEUPERT, M. D.
State Health Officer

Verification: *[Signature]*

REVISIONS		
DATE	DESCRIPTION	BY

HYDRAULIC PROFILE & FLOW DIAGRAM
SEWAGE TREATMENT PLANT

SUPERIOR WIS

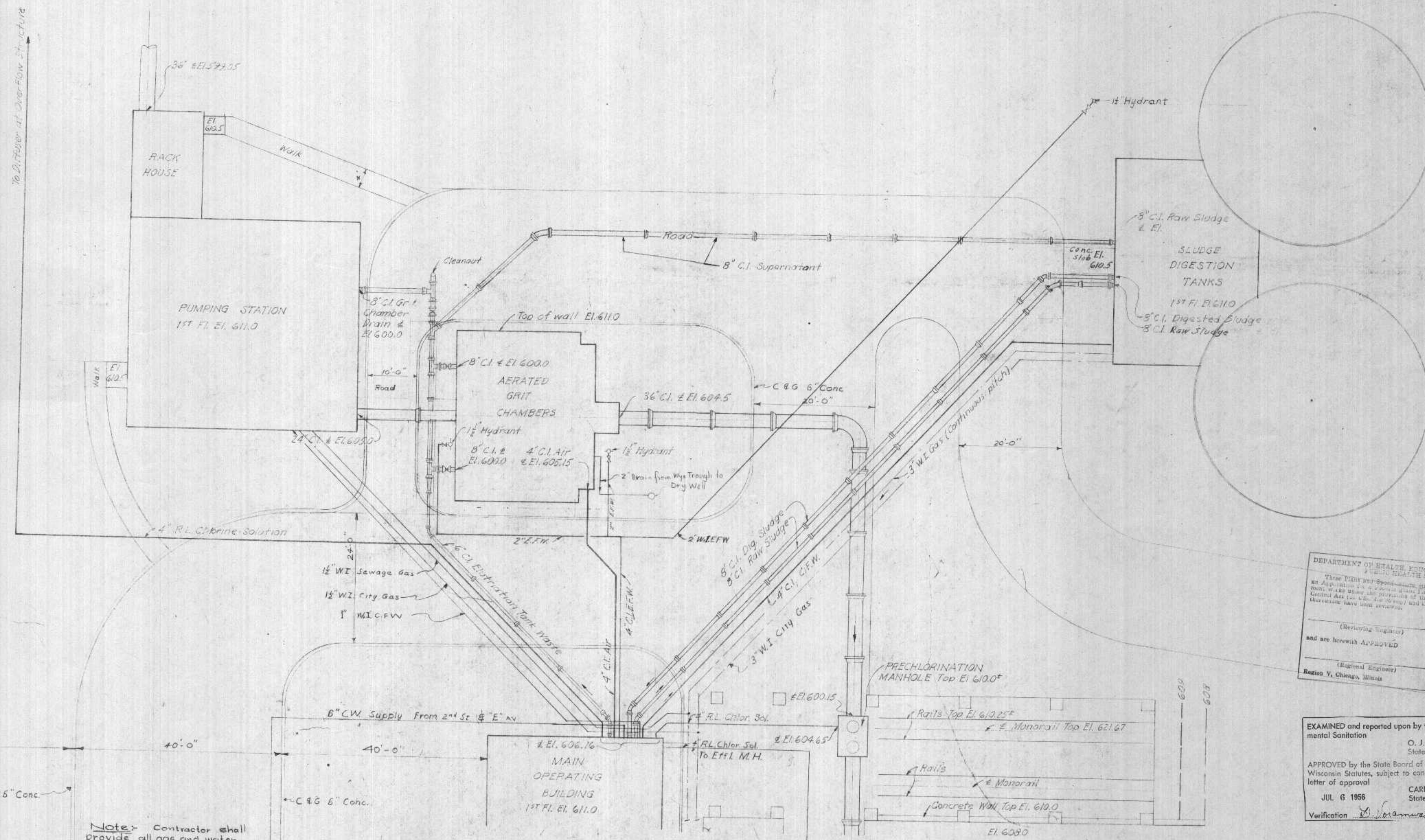
HITCHCOCK & ESTABROOK, INC.
CONSULTING ENGINEERS
300 LINCOLN BLDG.
MINNEAPOLIS 1, MINN.

DR. TR. J.D.
CHKD. APPD. J.D.

JOB NO. 400
SHEET NO. 14 OF 71

DATE: JUL 6 1958 SCALE: As Noted

To Distribute at Over-Flow Structure



Note: Contractor shall provide all gas and water piping inside plant property line in lump sum bid and the payment for gas & water piping outside plant property line to be done on unit bid basis

PIPE LEGEND:
 CMP denotes Corrugated Metal Pipe
 CI " Cast Iron Pipe
 WI " Wrought Iron Pipe
 RL " Rubber Lined Steel Pipe

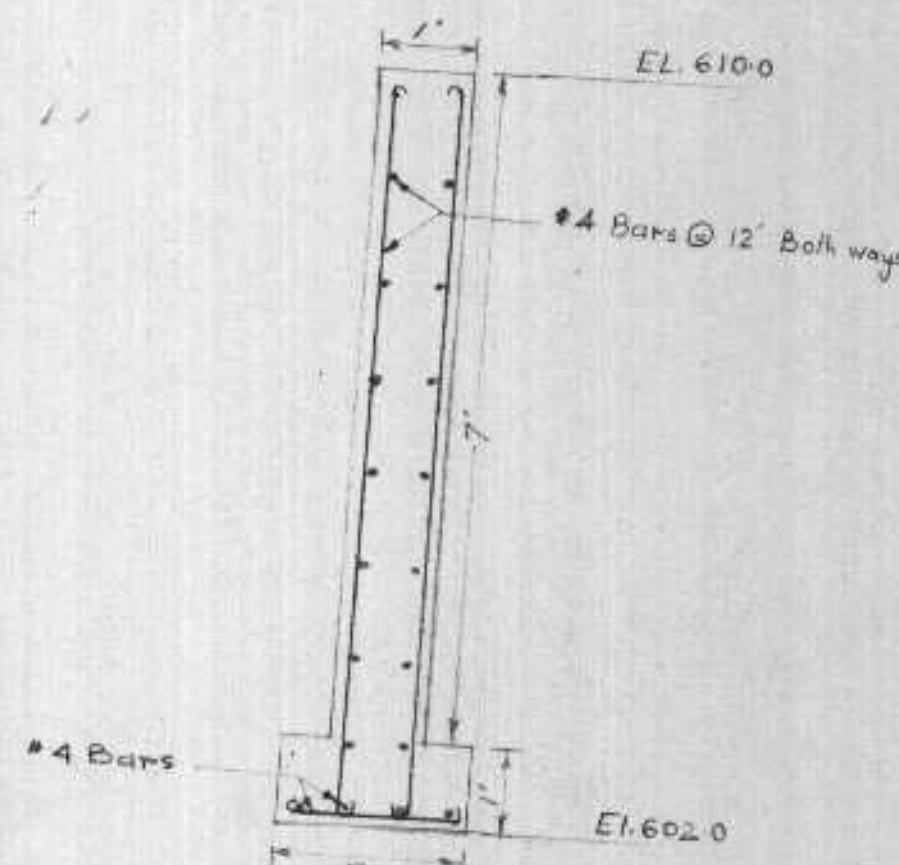
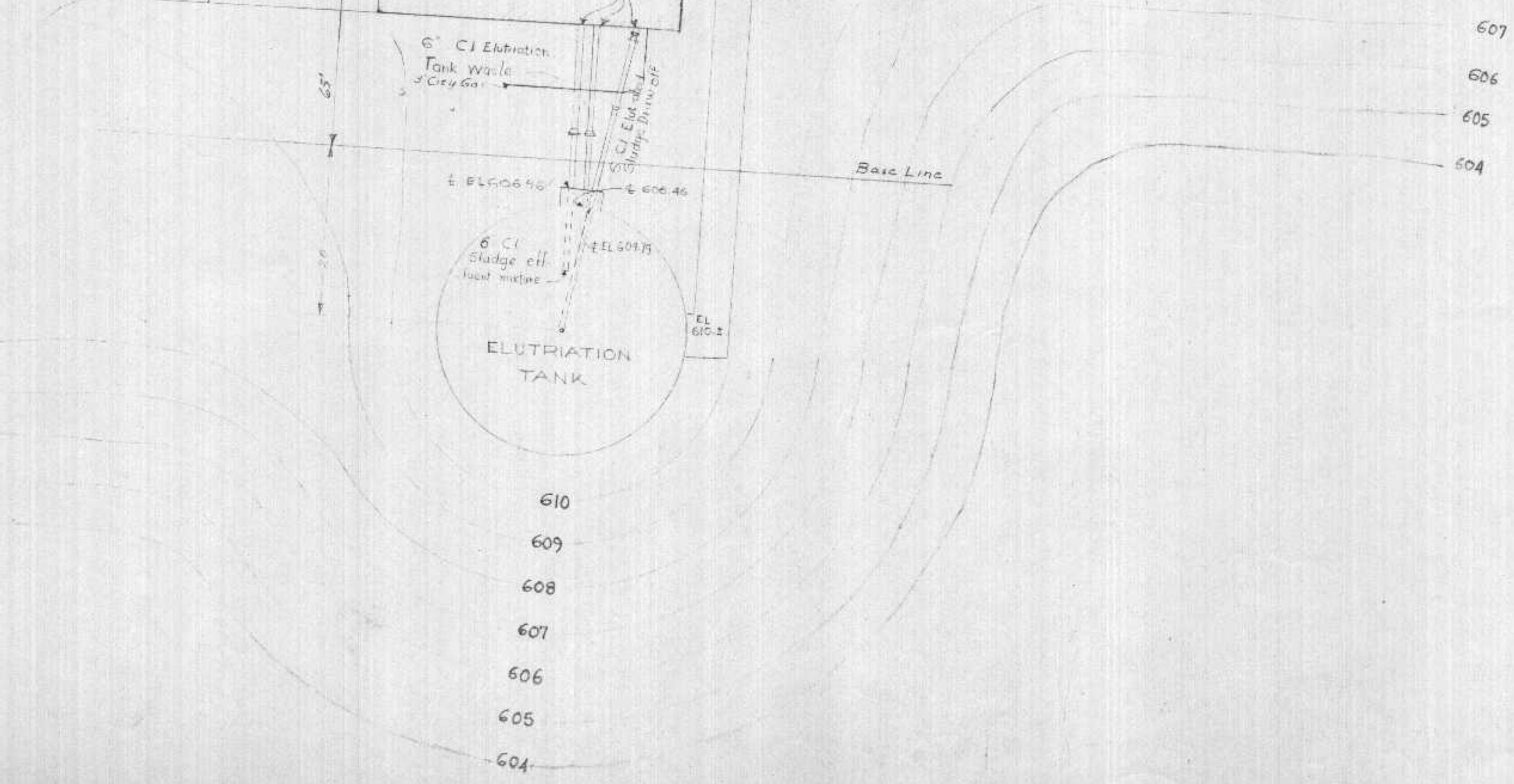
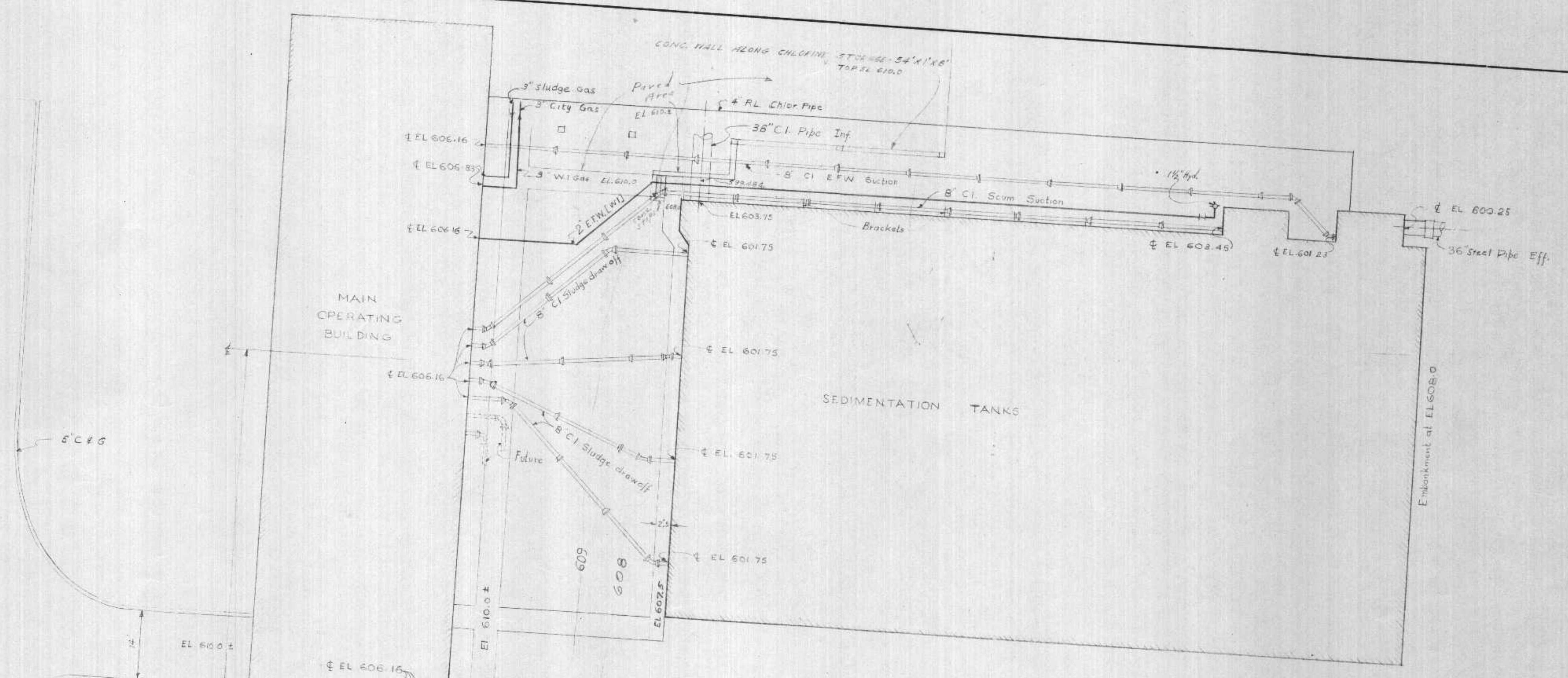
EFW " Effluent Flushing Water
 CFW " City Flushing Water
 CW " City Water Supply Main

GENERAL NOTES:
 24" and 36" Cast Iron pipe shall have bell and spigot ends with lead joints.
 Other Cast Iron pipe and fittings shall have standardized mechanical joints.
 Pipe lines shall slope at a constant rate between the elevations as shown on the drawings

DEPARTMENT OF HEALTH, EDUCATION AND WELFARE
 PUBLIC HEALTH SERVICE
 These Plans and Specifications were prepared in connection with an Application for a permit under the provisions of the Federal Water Pollution Control Act (P.L. 86-460) and the regulations promulgated thereunder have been reviewed.
 (Retrieving Engineer) _____ (Date) _____
 and are herewith APPROVED _____ (Date) _____
 (Regional Engineer) _____ (Date) _____
 Region V, Chicago, Illinois

EXAMINED and reported upon by the Section on Environmental Sanitation
 O. J. MUEGGE
 State Sanitary Engineer
 APPROVED by the State Board of Health, as required by Wisconsin Statutes, subject to conditions set forth in the letter of approval
 JUL 6 1956
 Verification _____
 CARL N. NEUPERT, M. D.
 State Health Officer

SUPERIOR, WISCONSIN
 SEWAGE TREATMENT PLANT
 OUTSIDE PIPING
 PLAN - I
 SCALE, 1" = 10'-0"
 FEB. 1956
 METCALF & EDDY
 ENGINEERS
 BOSTON, MASS.



CONC. WALL SECTION
SCALE 1/2" = 1'

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH DIVISION
These Plans and Specifications are shown in connection with an application for a permit to construct and install a sewerage system in the City of Chicago, Illinois, and are hereby approved.
(Regional Engineer)
Region V, Chicago, Illinois

EXAMINED and reported upon by the Section on Environmental Sanitation
O. J. MUEGGE
State Sanitary Engineer
APPROVED by the State Board of Health, as required by Wisconsin Statutes, subject to conditions set forth in the letter of approval
JUL 6 1956
CARL N. NEUPERT, M. D.
State Health Officer
Verification: *K. J. ...*

NOTE -
see note on Sh 61 for gas and water piping

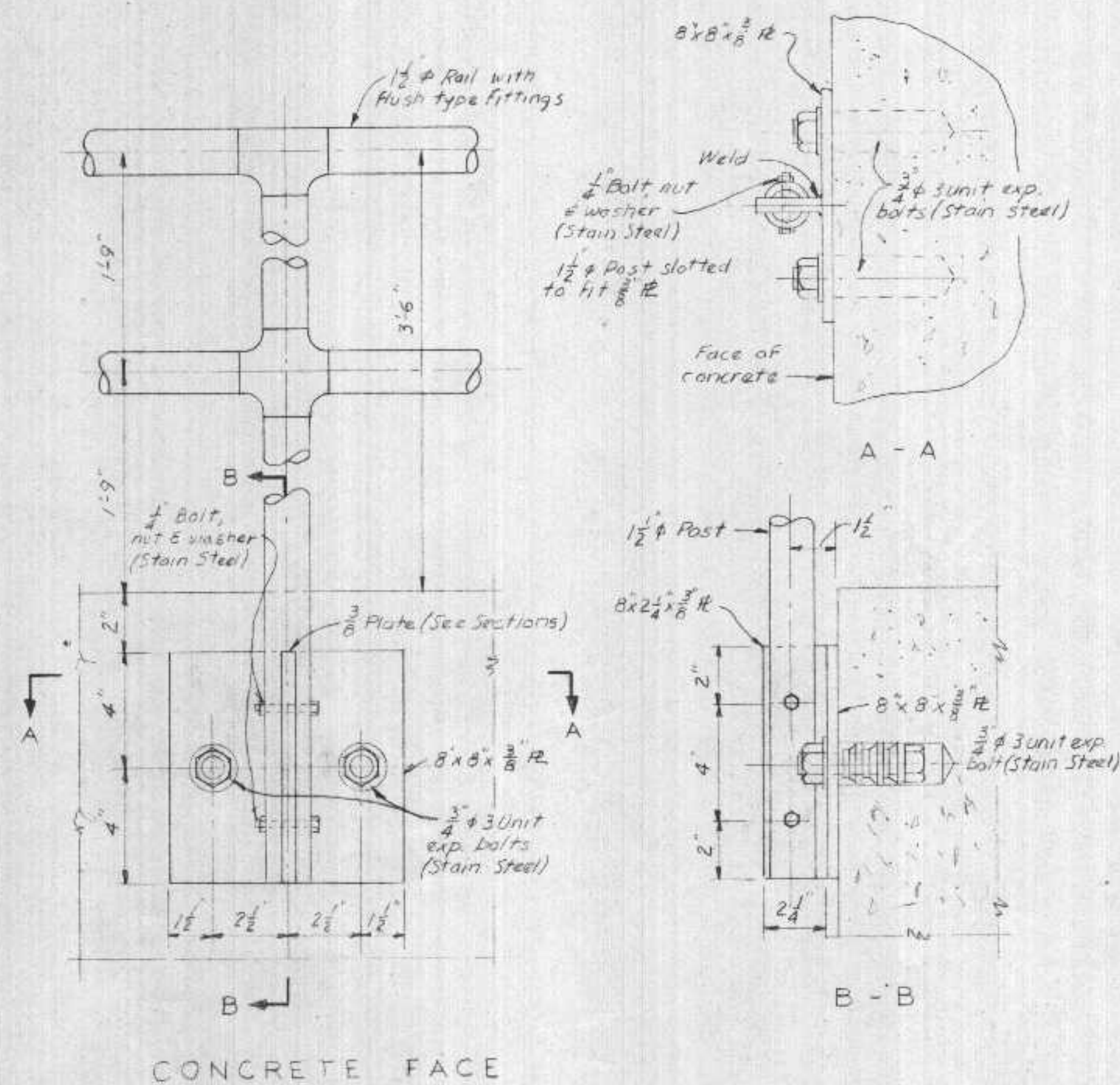
REVISIONS		
DATE	DESCRIPTION	BY

SUPERIOR WIS
SEWAGE TREATMENT PLANT
OUTSIDE PIPING PLAN - 2

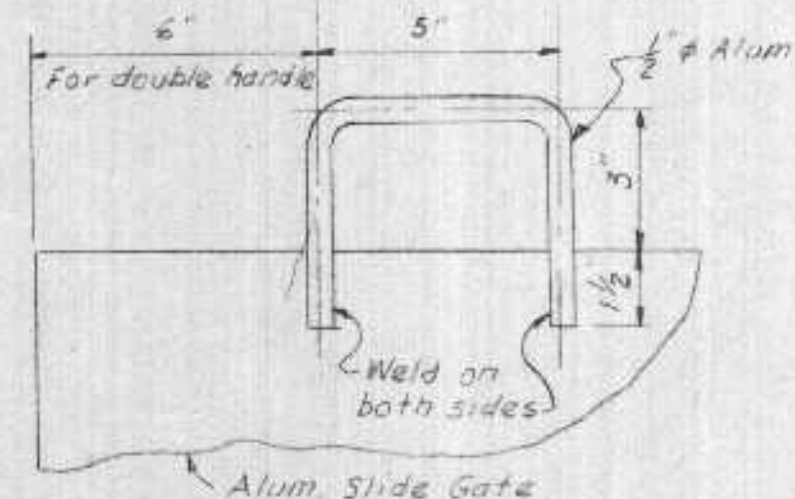
HITCHCOCK & ESTABROOK, INC.
CONSULTING ENGINEERS
300 LINCOLN BLDG.
MINNEAPOLIS 1, MINN.

DR. TR. *JD*
CHKD. APPD. *JD*

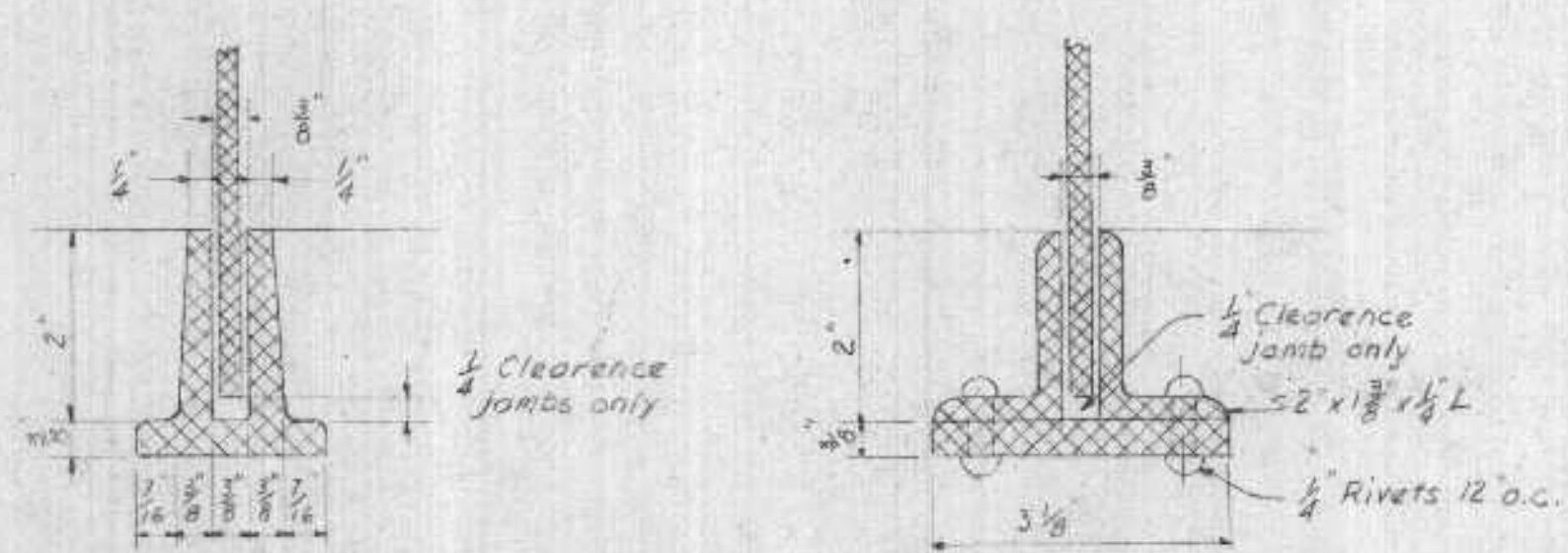
JOB NO. **400**
SHEET **1/2**



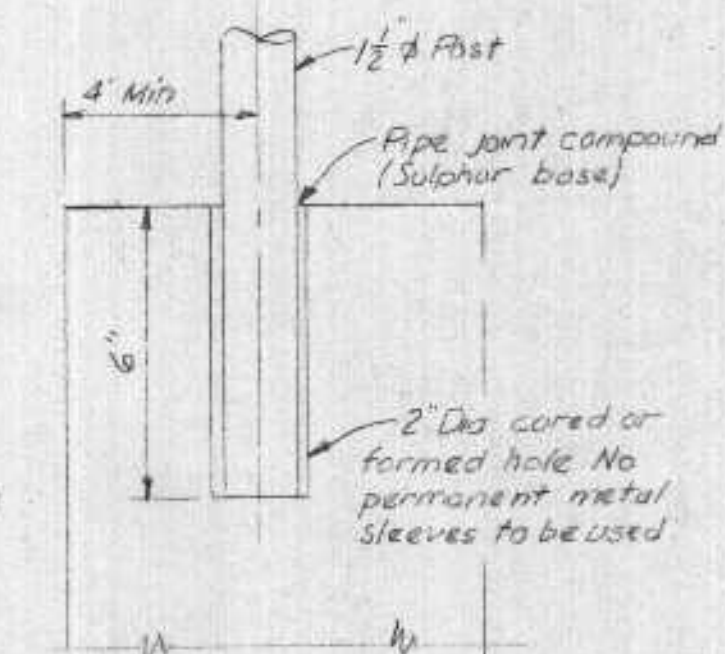
RAIL SUPPORTS
Space not greater than 5'-0" O.C.
SCALE 3" = 1'-0"



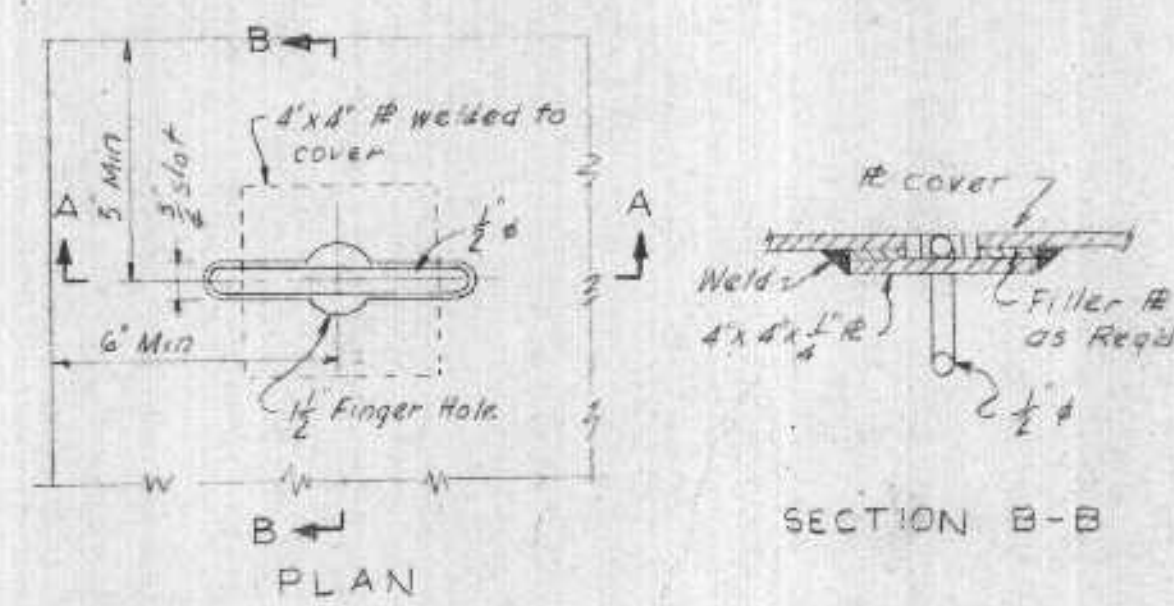
SLIDE GATE HANDLE DETAIL
SCALE: 3" = 1'-0"



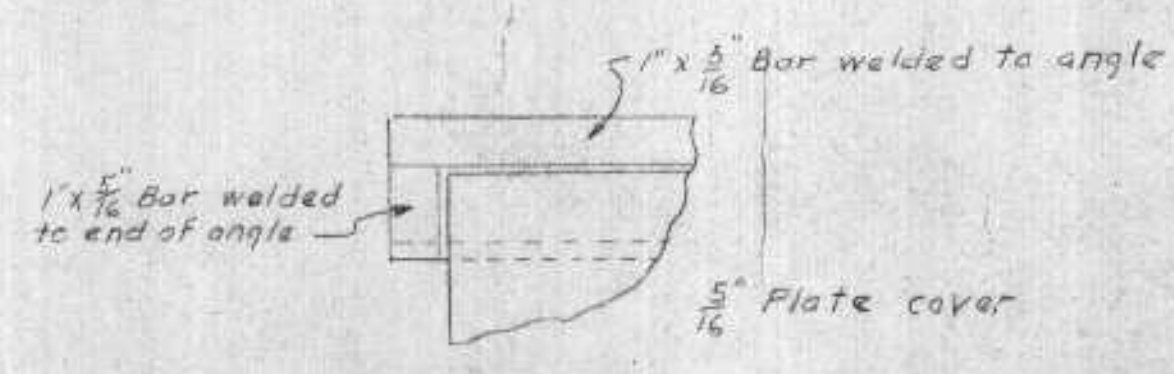
SLIDE GATE FRAME DETAILS
SCALE 1/2" = 1'-0"



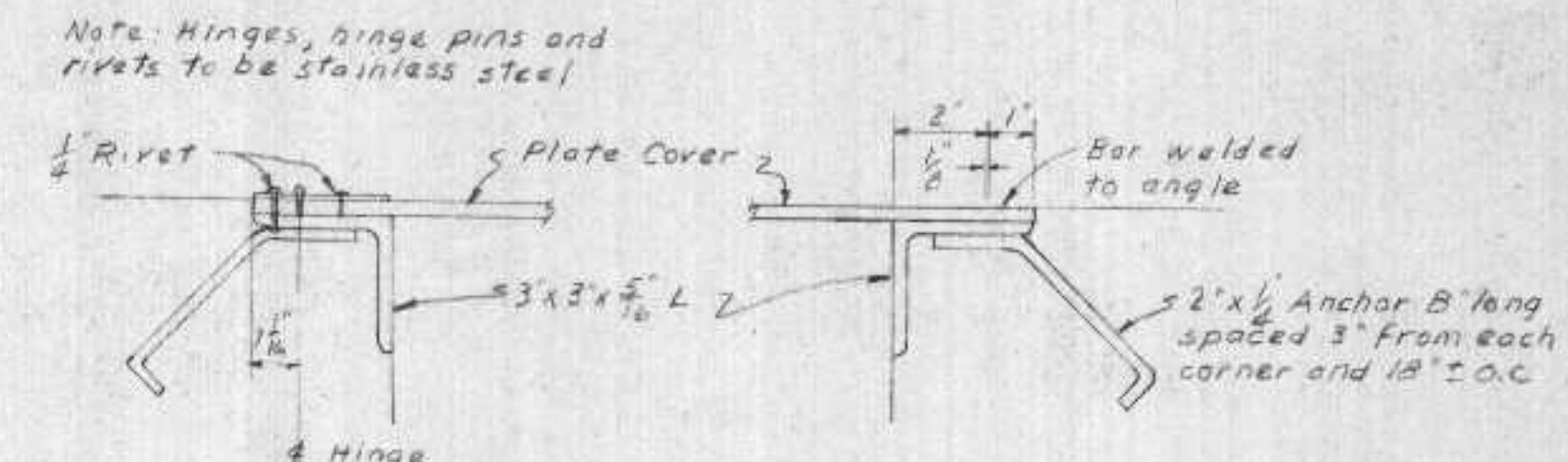
CONCRETE DECK



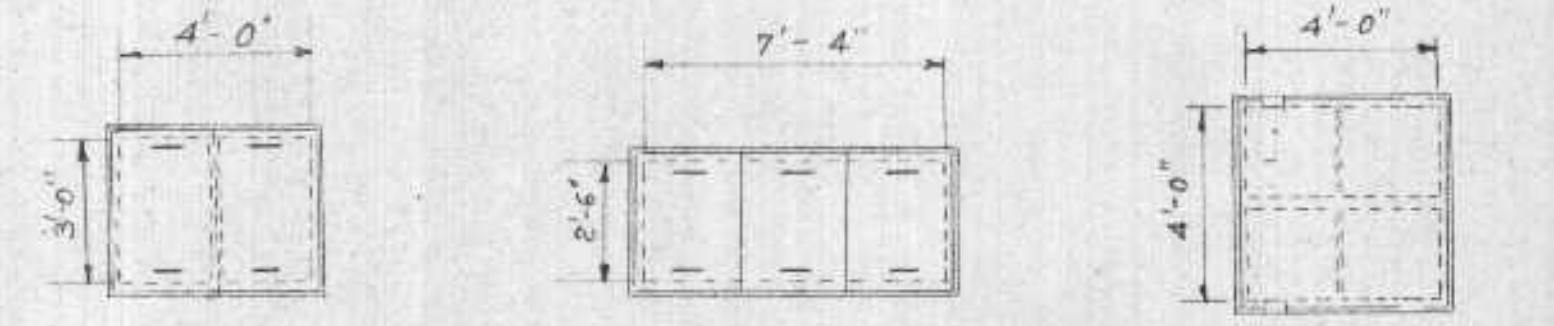
HANDLE DETAIL FOR PLATE COVERS
SCALE: 3" = 1'-0"



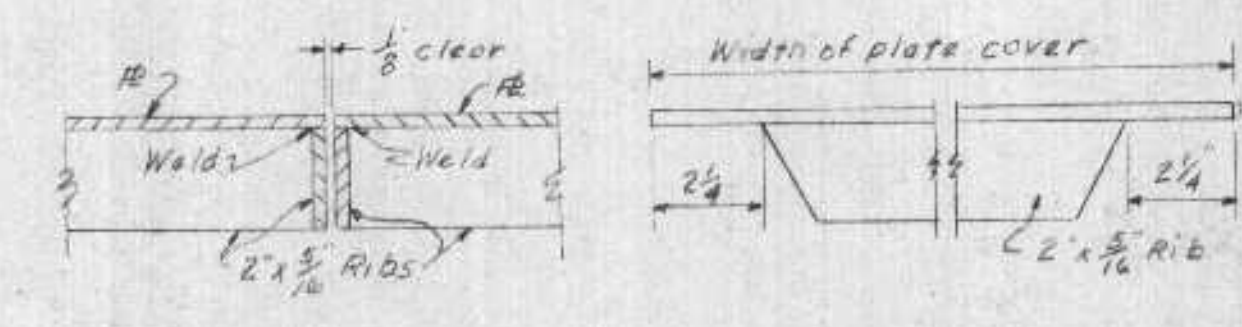
DETAIL X
NO SCALE



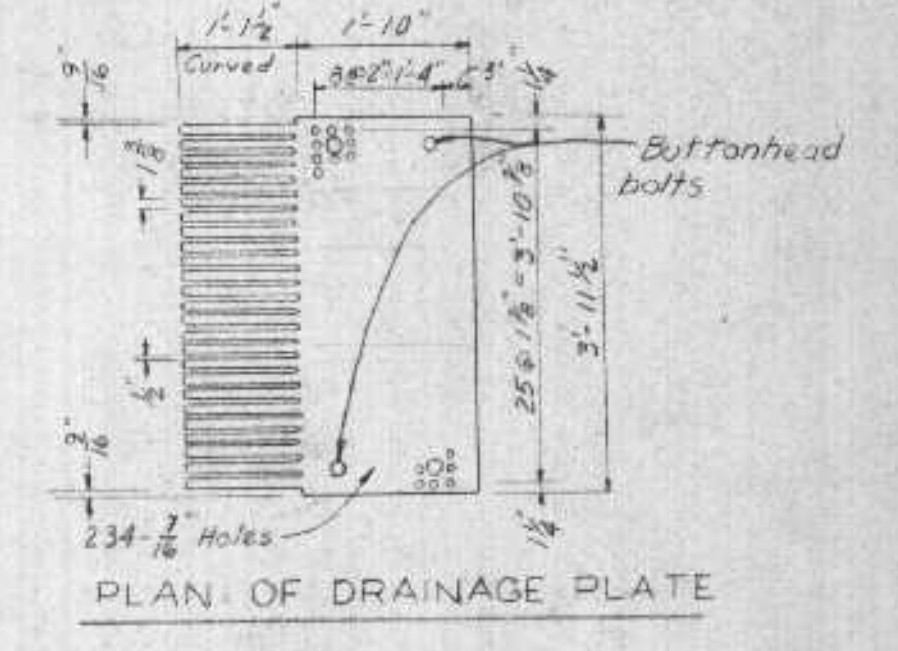
TYPICAL HINGE & FRAME DETAILS
SCALE: 3" = 1'-0"



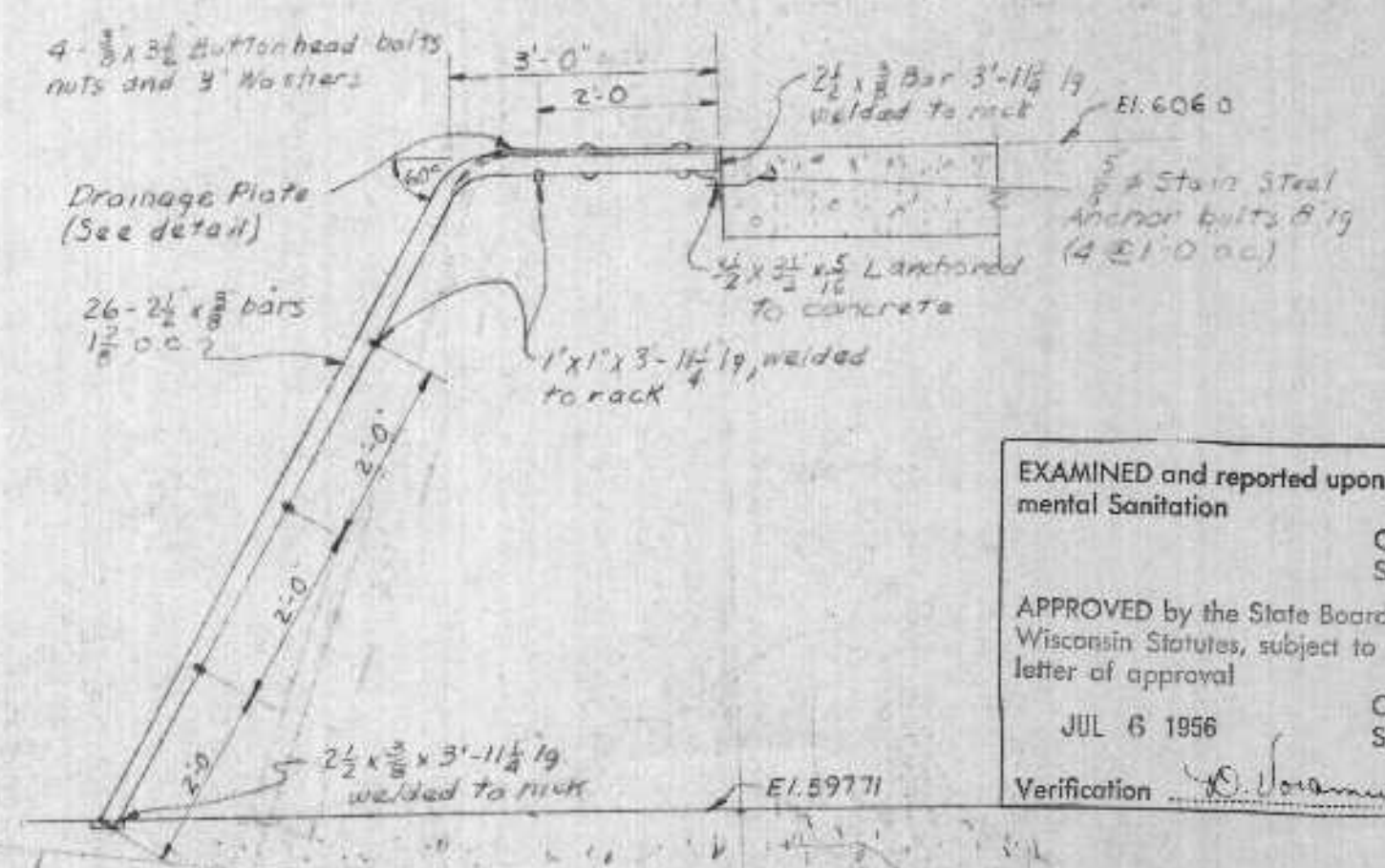
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COVER NO 2 (3 SECTIONS) 4 REQ'D Sedimentation Tanks
COVER NO 3 (2 SECTIONS) Main Oper. Bldg.
SCALE 1/4" = 1'-0"



STIFFENER FOR PLATE COVERS
SCALE 3" = 1'-0"

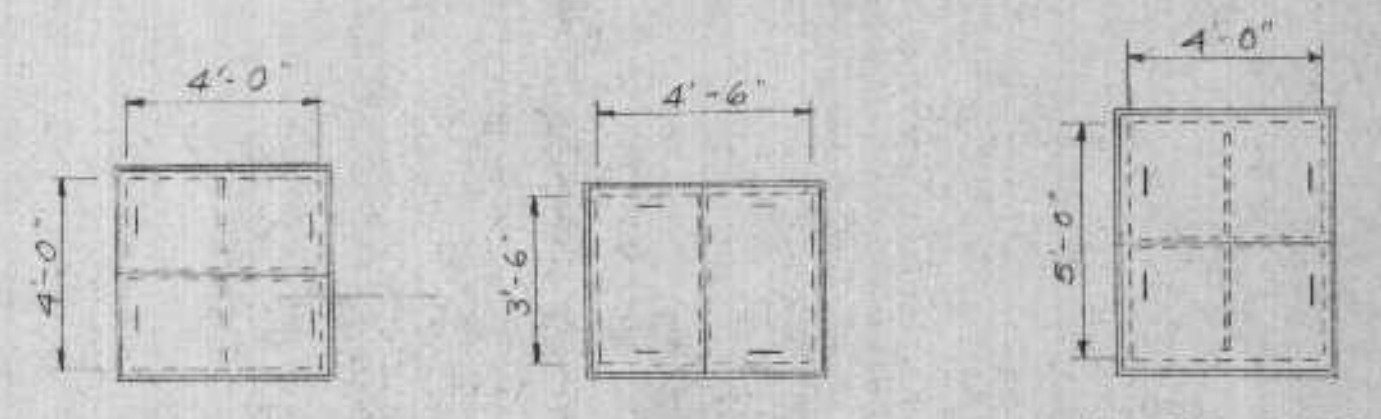


PLAN OF DRAINAGE PLATE

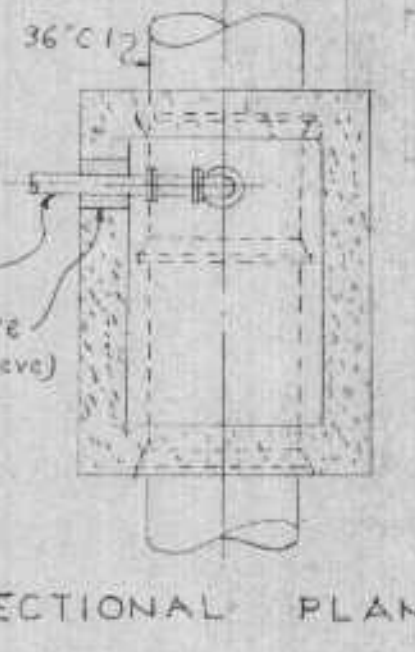


SECTION OF BAR RACK & PLATE

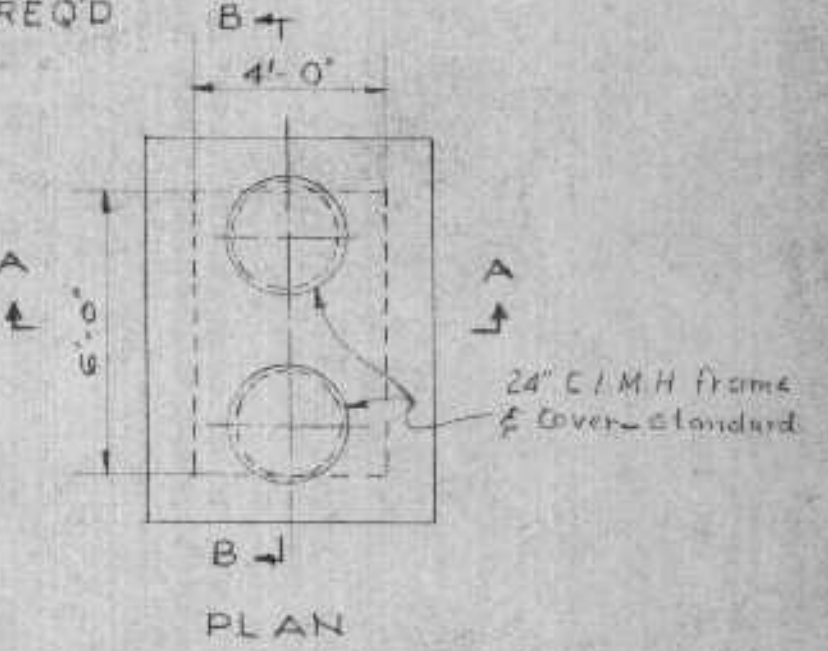
BAR RACK DETAIL
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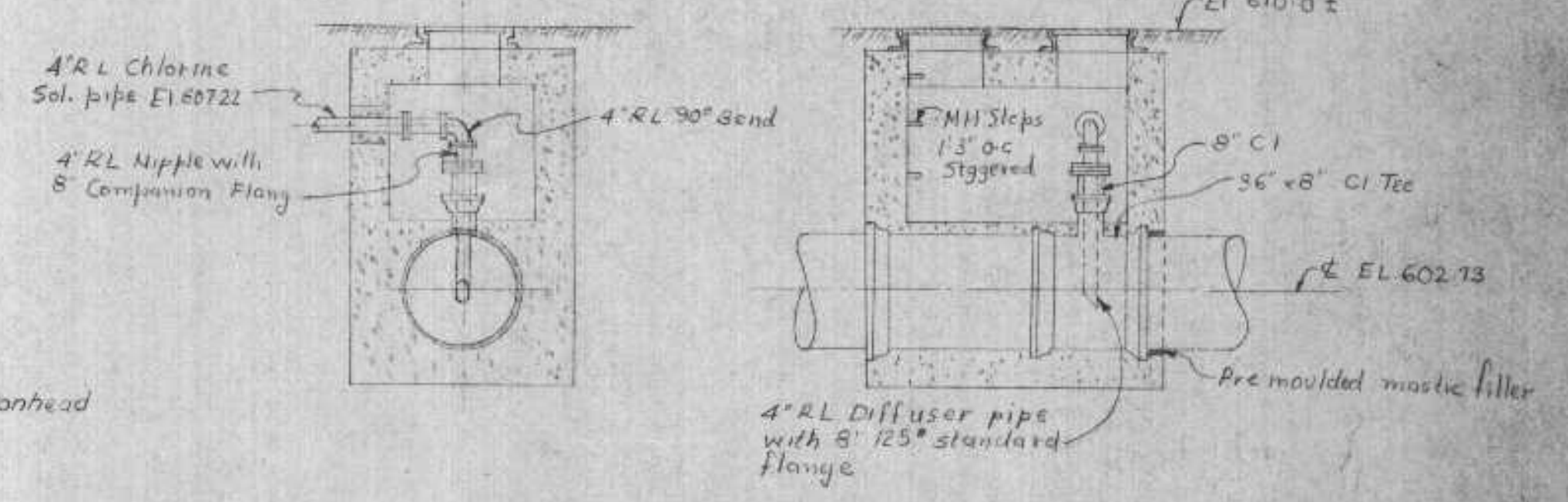
COVER NO 4 (2 SECTIONS) Sed. Tks. Scum Well
COVER NO 5 (2 SECTIONS) Sed. Tks. Eff. M.H.
COVER NO 6 (2 SECTIONS) Sed. Tks. Scum. M.H.



SECTIONAL PLAN



PLAN



SECTION A-A SECTION B-B

PRECHLORINATION MANHOLE AT 36" C.I. PIPE

SCALE 1/4" = 1'-0"

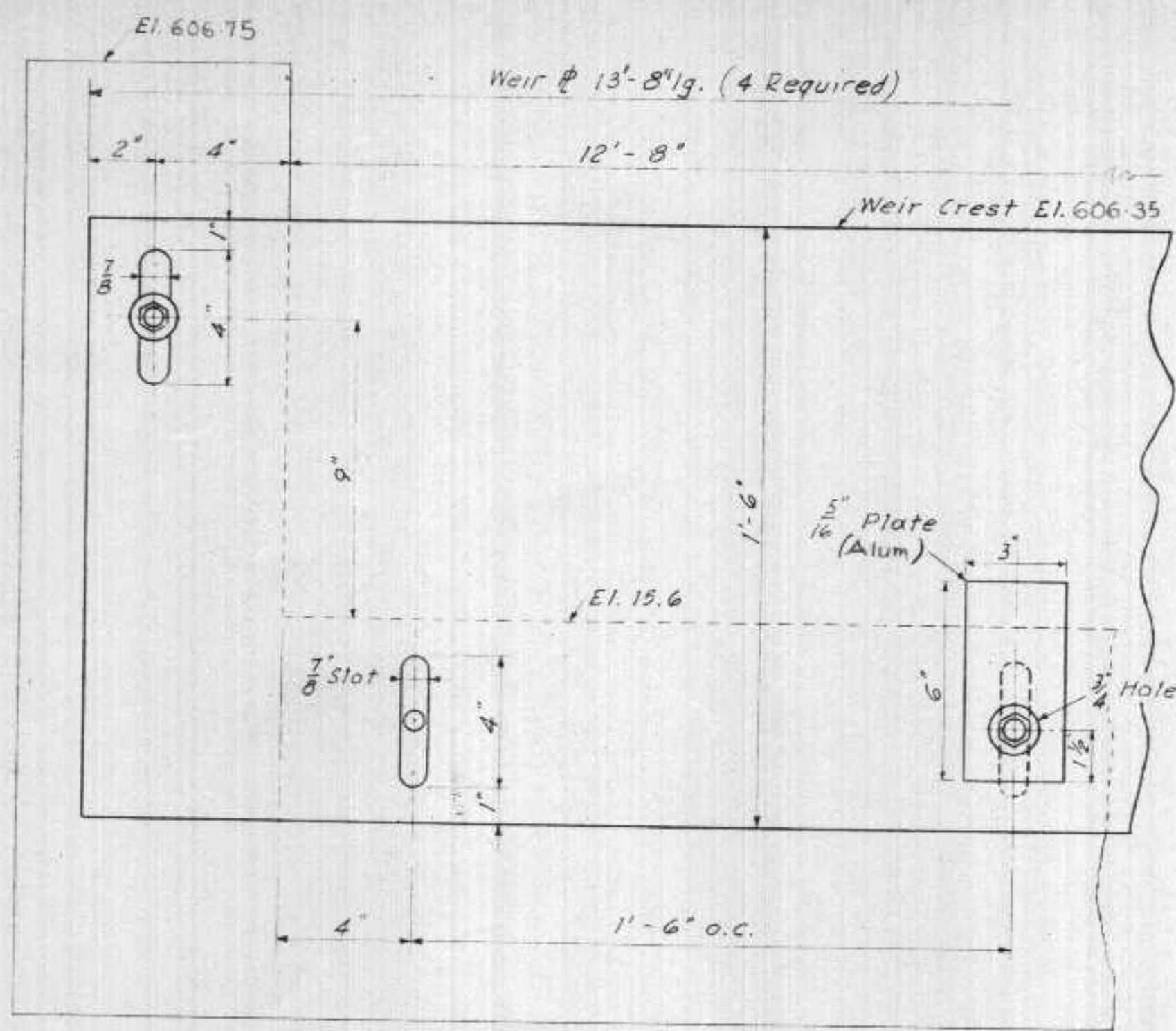
ALUMINUM SLIDE GATE AND FRAME SCHEDULE									
No. Req'd	Frame		Gate		No. Handles	Location	Ribs		Z
	W	D	X	Y			No. Req'd		
A	2	2'-0"	3'-0"	2'-3 1/2"	2'-2"	1	Entrance to 6" Chambers	None	
B	2	2'-0"	4'-0"	2'-3 1/2"	3'-2"	1	Exit from 6" Chambers	None	
C	1	4'-0"	4'-0"	4'-3 1/2"	3'-2"	2	Entrance to Bypass Rack	3	3'-11 1/2"
D	1	4'-0"	5'-0 1/2"	4'-5 1/2"	3'-2"	2	Exit from Bypass Rack	4	3'-11 1/2"
E	4	2'-0"	3'-1 1/2"	2'-3 1/2"	2'-0"	1	Entrance to Sedimentation Tank	Name	

EXAMINED and reported upon by the Section on Environmental Sanitation
O. J. MUEGGE
State Sanitary Engineer
APPROVED by the State Board of Health, as required by Wisconsin Statutes, subject to conditions set forth in the letter of approval
JUL 6 1956
CARL N. NEUPERT, M. D.
State Health Officer
Verification: [Signature]

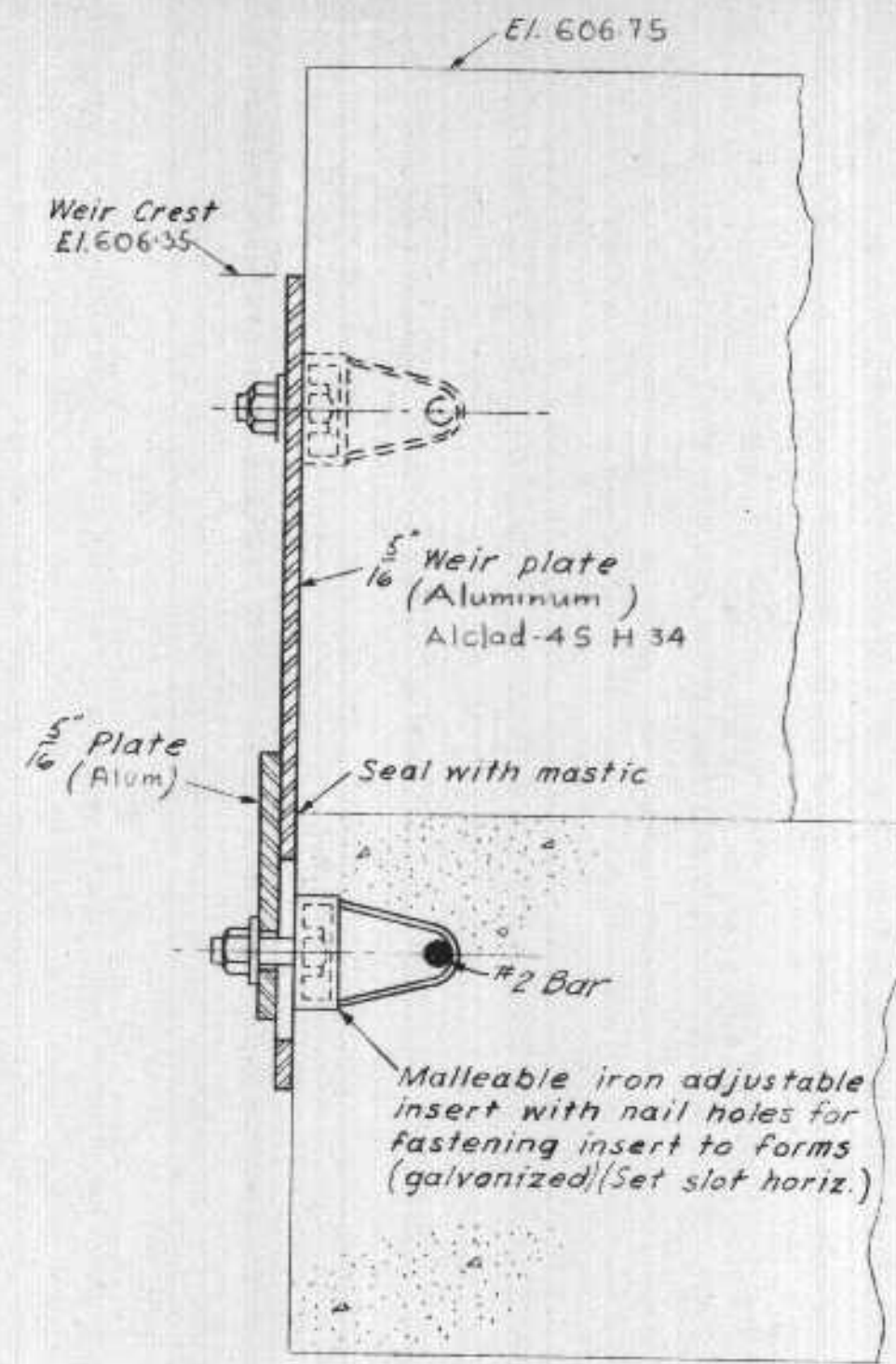
These Plans and Specifications were prepared in connection with an Application for a License for the construction of Sewage Treatment Plant at Superior, Wisconsin, and the construction of the proposed Sewage Treatment Plant at Superior, Wisconsin, and the regulations promulgated thereunder have been reviewed.
(Professional Engineer)
(12450)
and are hereby APPROVED
(Professional Engineer)
(12450)

REVISIONS			MISCELLANEOUS DETAILS I	
DATE	DESCRIPTION	BY	SEWAGE TREAT. PLANT SUPERIOR WIS.	
7/2/56	Added cover No. 1, 2, 3, 6	J.D.		

HITCHCOCK & ESTABROOK, INC.
CONSULTING ENGINEERS
300 LINCOLN BLDG.
MINNEAPOLIS 1, MINN.
DR. TR. J.L. CHKD. APPD. [Signature]
JOB NO. 480
SHEET NO. 64 of 71
DATE: 7/6/56 SCALE: 1/4" = 1'-0"



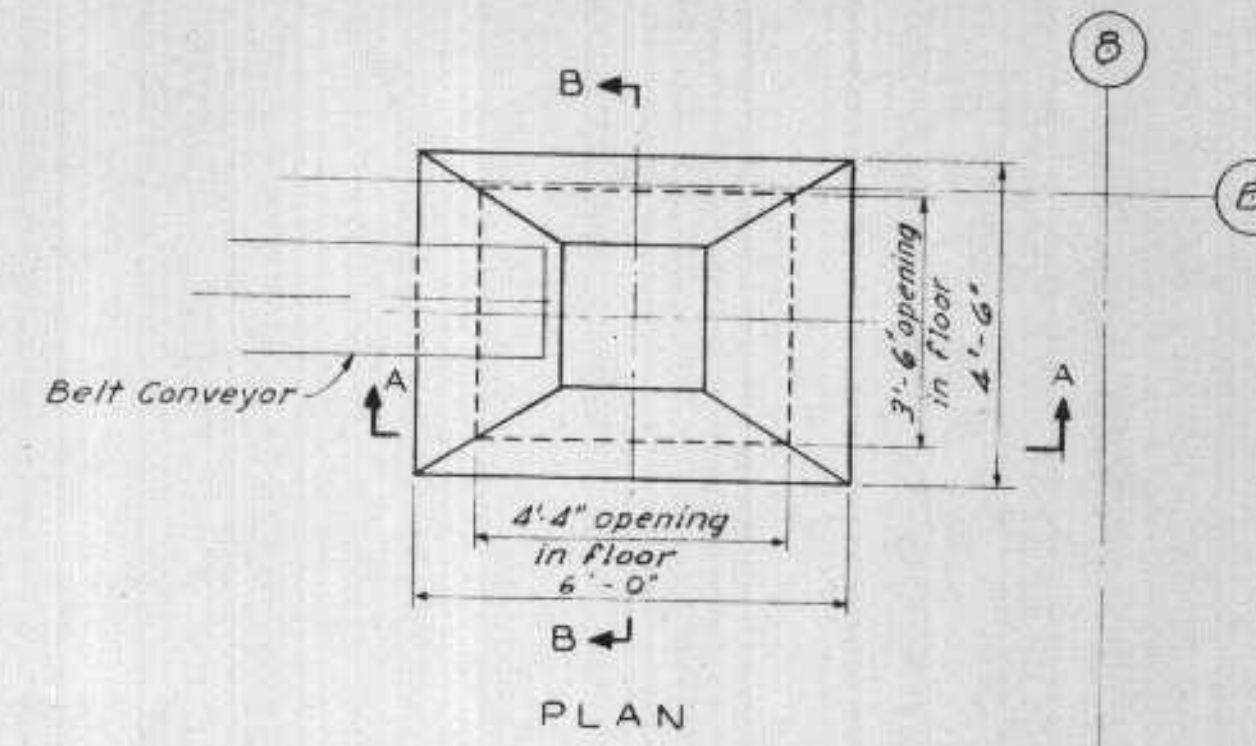
ELEVATION



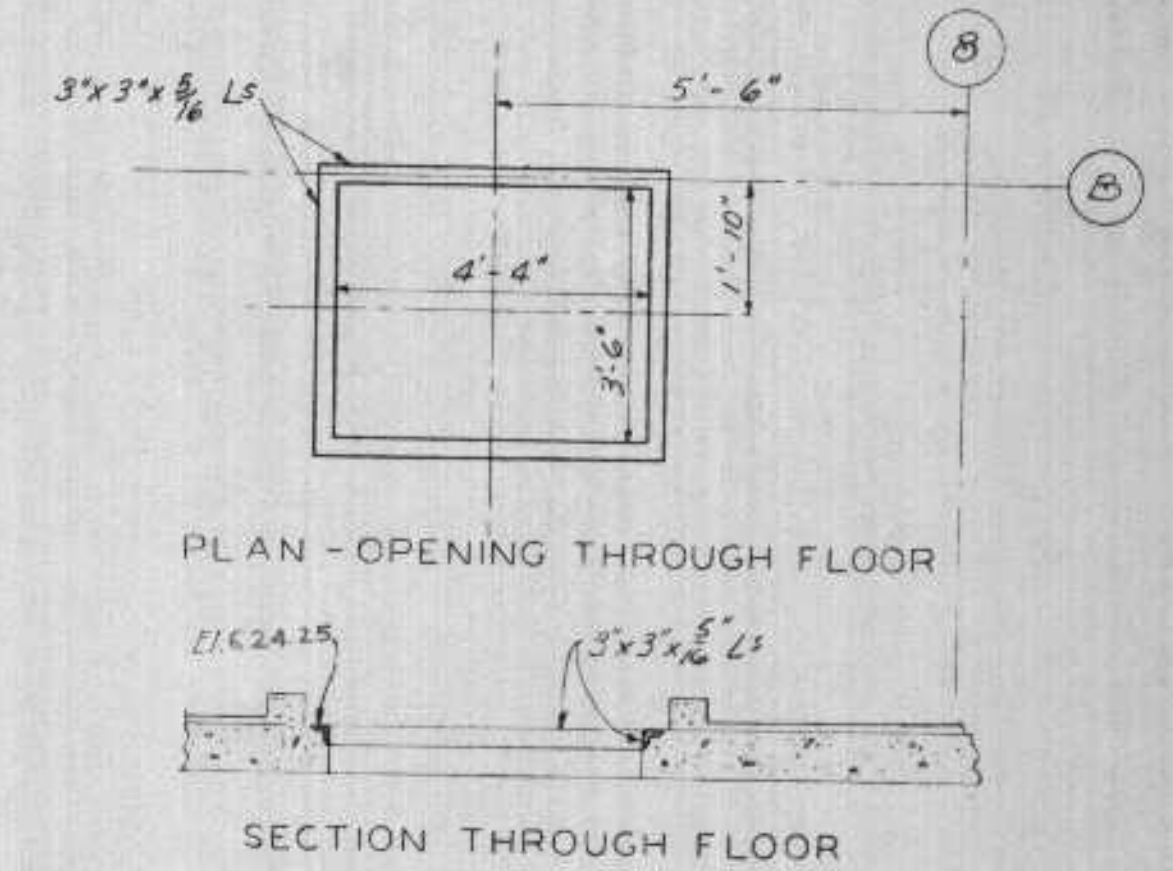
SECTION

INFLUENT WEIR - SEDIMENTATION TANKS

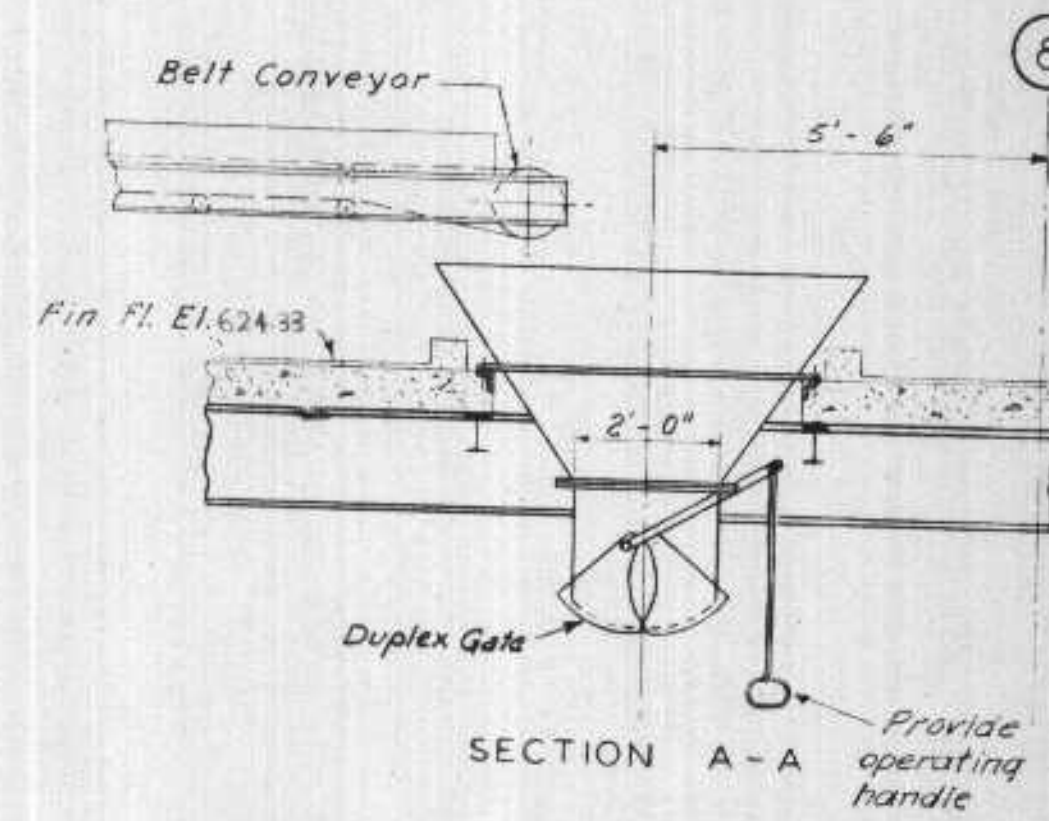
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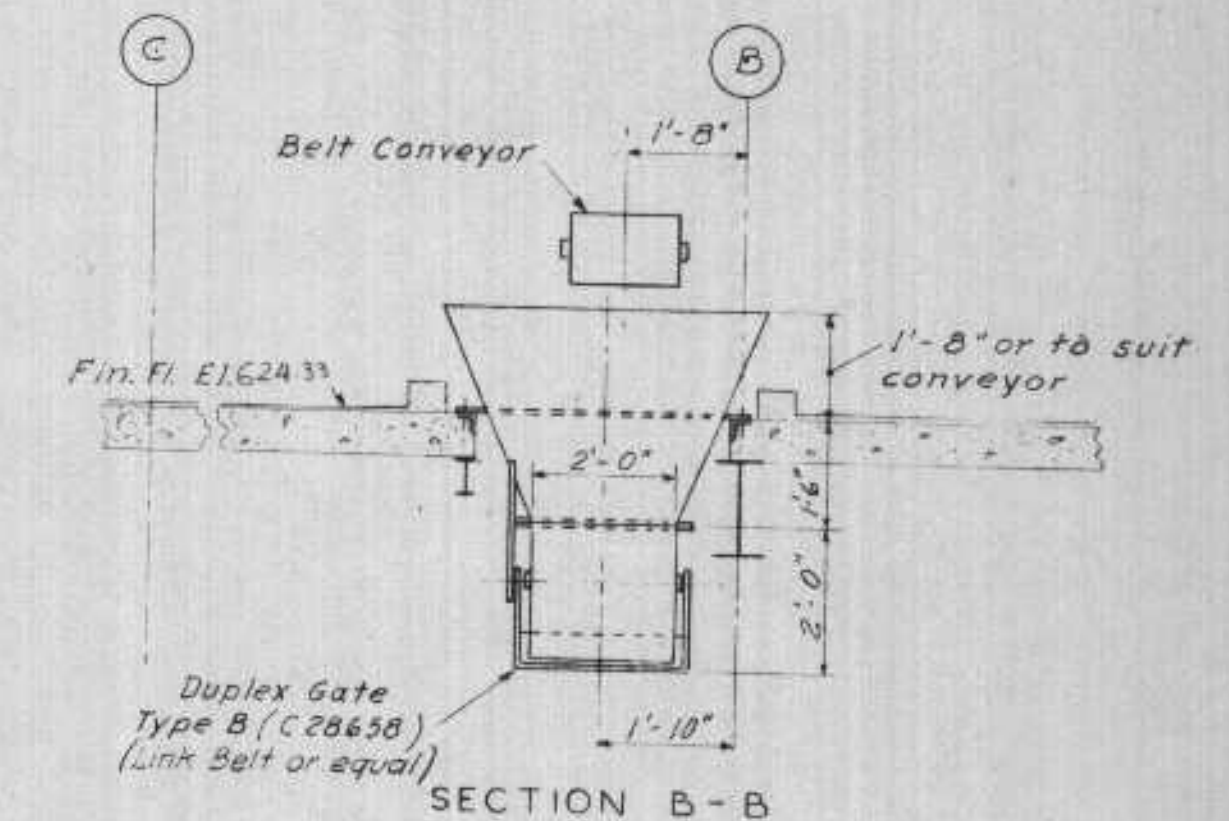
PLAN



SECTION THROUGH FLOOR



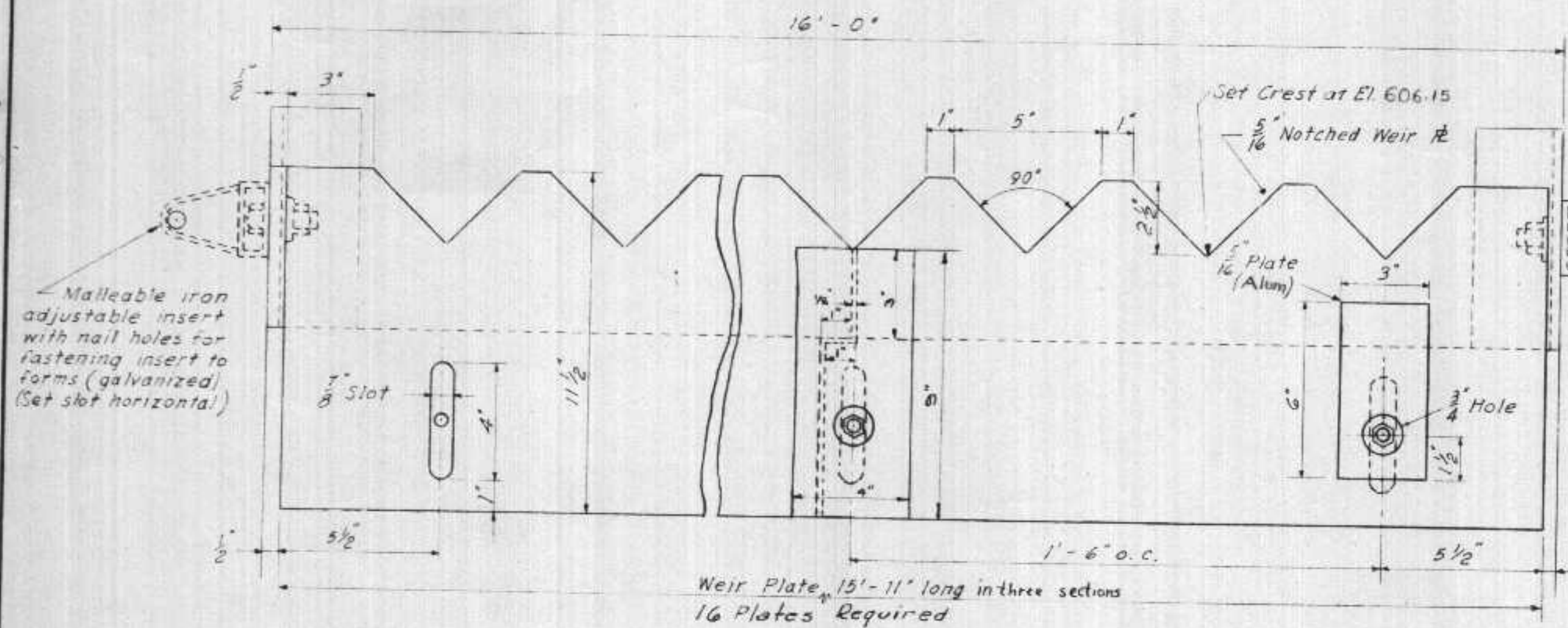
SECTION A-A



SECTION B-B

SLUDGE HOPPER AND GATE

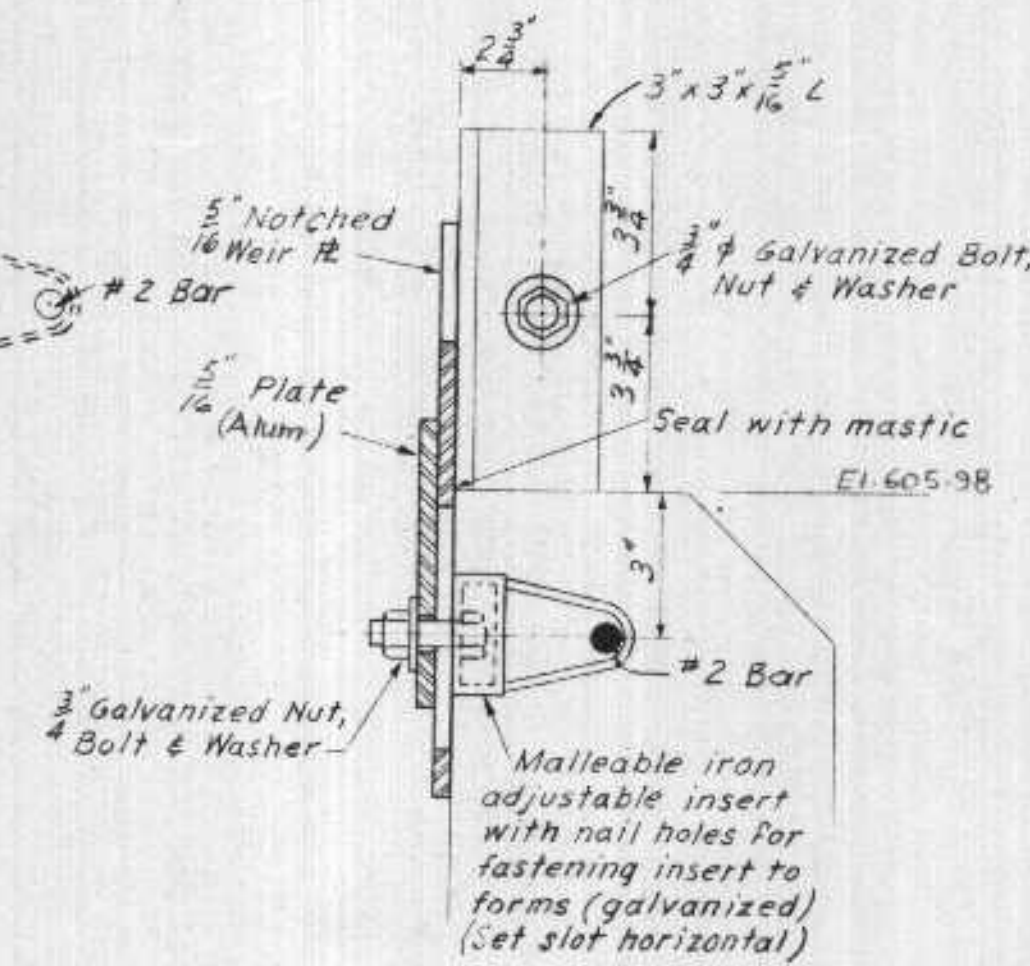
SCALE: 3/8" = 1'-0"



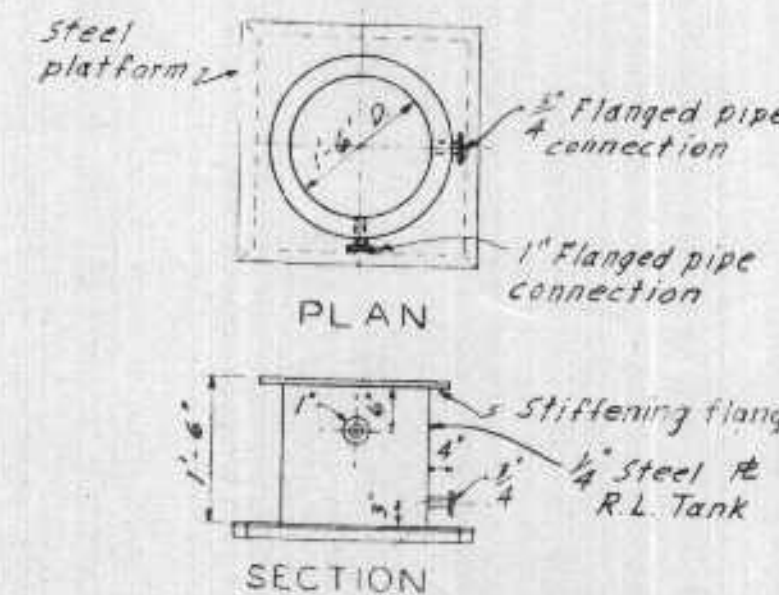
ELEVATION

EFFLUENT WEIR - SEDIMENTATION TANKS

SCALE: 3" = 1'-0"



SECTION

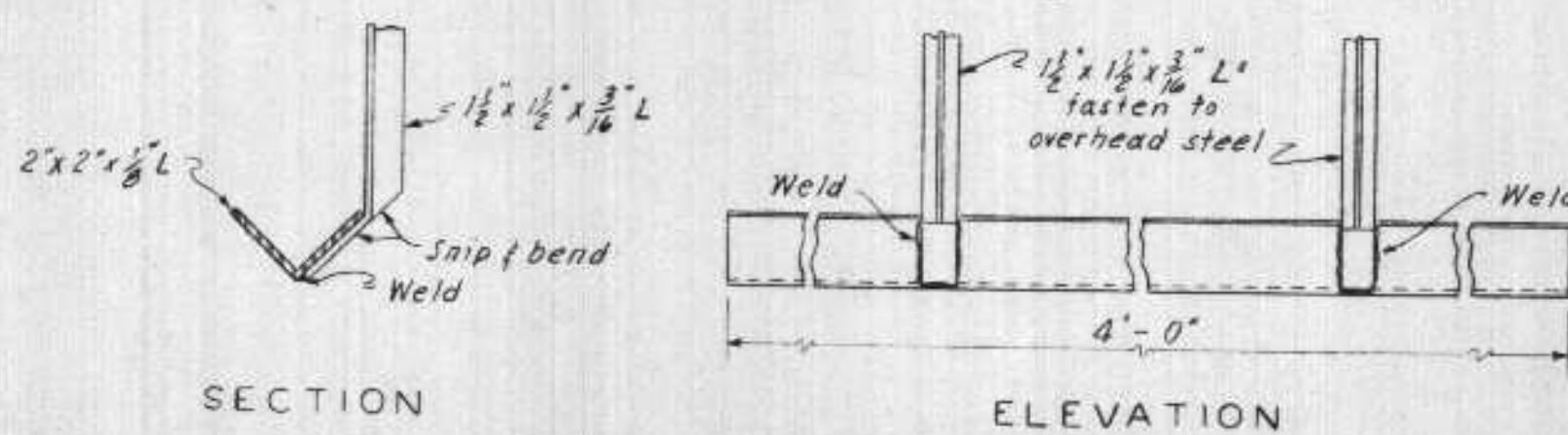


PLAN

SECTION

FERRIC CHLORIDE DISTRIBUTION TANK

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

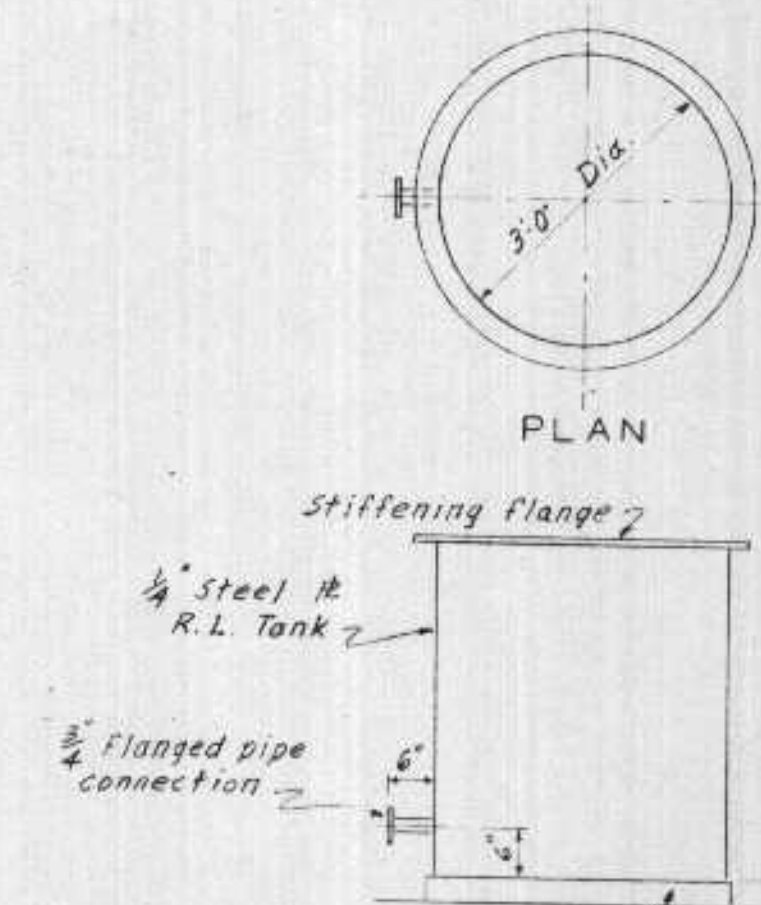


SECTION

ELEVATION

HOSE SUPPORT

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



PLAN

SECTION

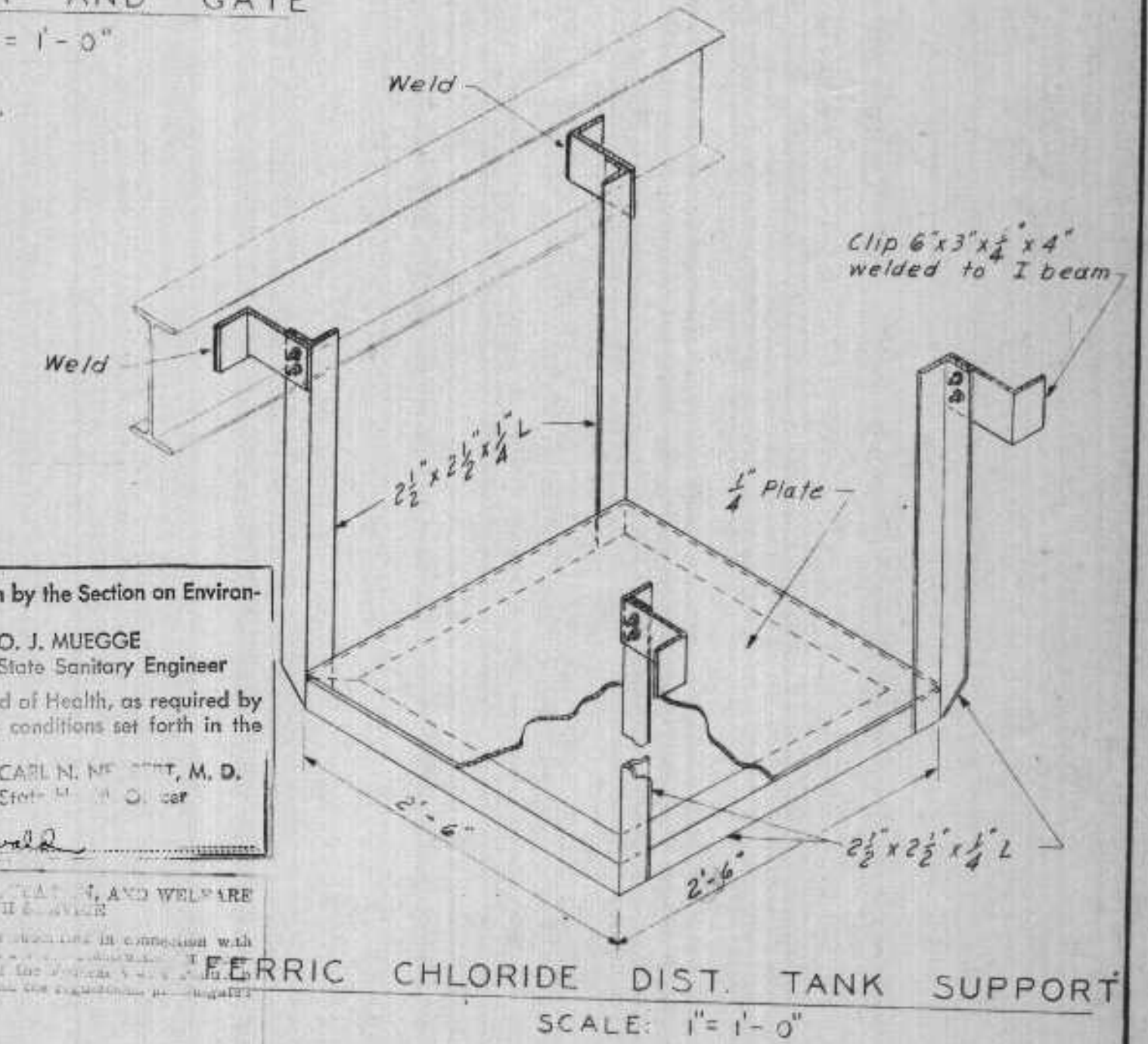
FERRIC CHLORIDE DISSOLVING TANK

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

EXAMINED and reported upon by the Section on Environmental Sanitation
 O. J. MUEGGE
 State Sanitary Engineer
 APPROVED by the State Board of Health, as required by Wisconsin Statutes, subject to conditions set forth in the letter of approval.
 JUL 6 1956
 Verification: CARL N. MUEGGE, M.D.
 State Health Officer

DEPARTMENT OF HEALTH, LABOR, AND WELFARE
 PUBLIC HEALTH DIVISION
 (Reviewing Engineer) (Date)
 and are herewith APPROVED
 (Regional Engineer) Revised 6/2/56 (Date)
 Region V, Chicago, Illinois

APPROVED
 FOR METCALF & EDDY, ENGINEERS
 DATE



FERRIC CHLORIDE DIST. TANK SUPPORT

SCALE: 1" = 1'-0"

SUPERIOR WIS
 SEWAGE TREATMENT PLANT
 MISCELLANEOUS
 DETAILS-2

SCALE: AS SHOWN

METCALF & EDDY
 ENGINEERS
 BOSTON, MASS.

DRAWN BY R.L.L.
 TRACED BY R.L.L.
 CHECKED BY H.B.A.

DESIGN INFORMATION

AVERAGE DRY WEATHER FLOW	5.0 MGD
MAX. HYDRAULIC CAPACITY - SECONDARY	15.0 MGD
MAX. HYDRAULIC CAPACITY - RETENTION TANK	50.0 MGD
B.O.D. LOADING - AVERAGE	7,500 LBS / DAY
B.O.D. CONCENTRATION - AVERAGE	180 MG / L
S.S. LOADING - AVERAGE	8,500 LBS / DAY
S.S. CONCENTRATION - AVERAGE	200 MG / L
PHOSPHORUS AS "P"	10 MG / L
POPULATION EQUIVALENT	44,000
RETENTION TANK	30 MIN. DETENTION (MINIMUM)
GRIT BASINS	100 MESH RETENTION
PRIMARY TANKS	665 GAL. / SQ. FT. / DAY
AERATION TANKS	50 LBS / 1,000 CU. FT.
FINAL TANKS	650 GAL. / SQ. FT. / DAY
CHLORINE CONTACT TANKS	15 MIN. DETENTION (MINIMUM)
ANAEROBIC DIGESTERS	30 DAY DETENTION
AIR	2,300 CU. FT. / LB. B.O.D.

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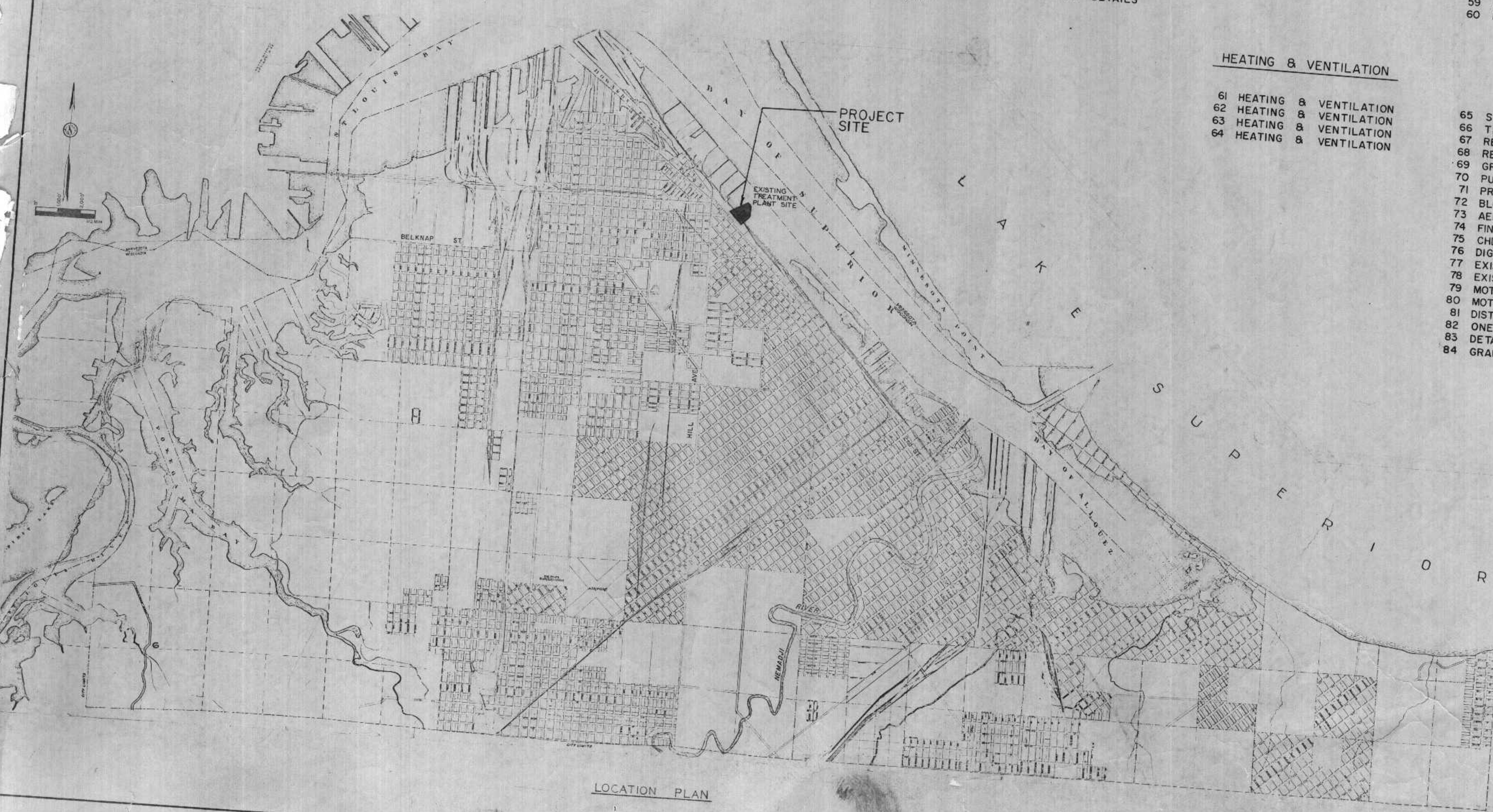
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LOCATION PLAN

REVIEWED AND APPROVED BY THE
 DIV. OF ENVIRONMENTAL PROTECTION,
 DEPT. NATURAL RESOURCES,
 IN ACCORDANCE WITH SEC. 144.04,
 WIS. STATS., SUBJECT TO THE CON-
 DITIONS SET FORTH IN THE LETTER
 OF APPROVAL.

THOMAS G. FRANZOS
 ADMINISTRATOR

APPROVAL NO.
72 355

DATE: FEB 4 '74

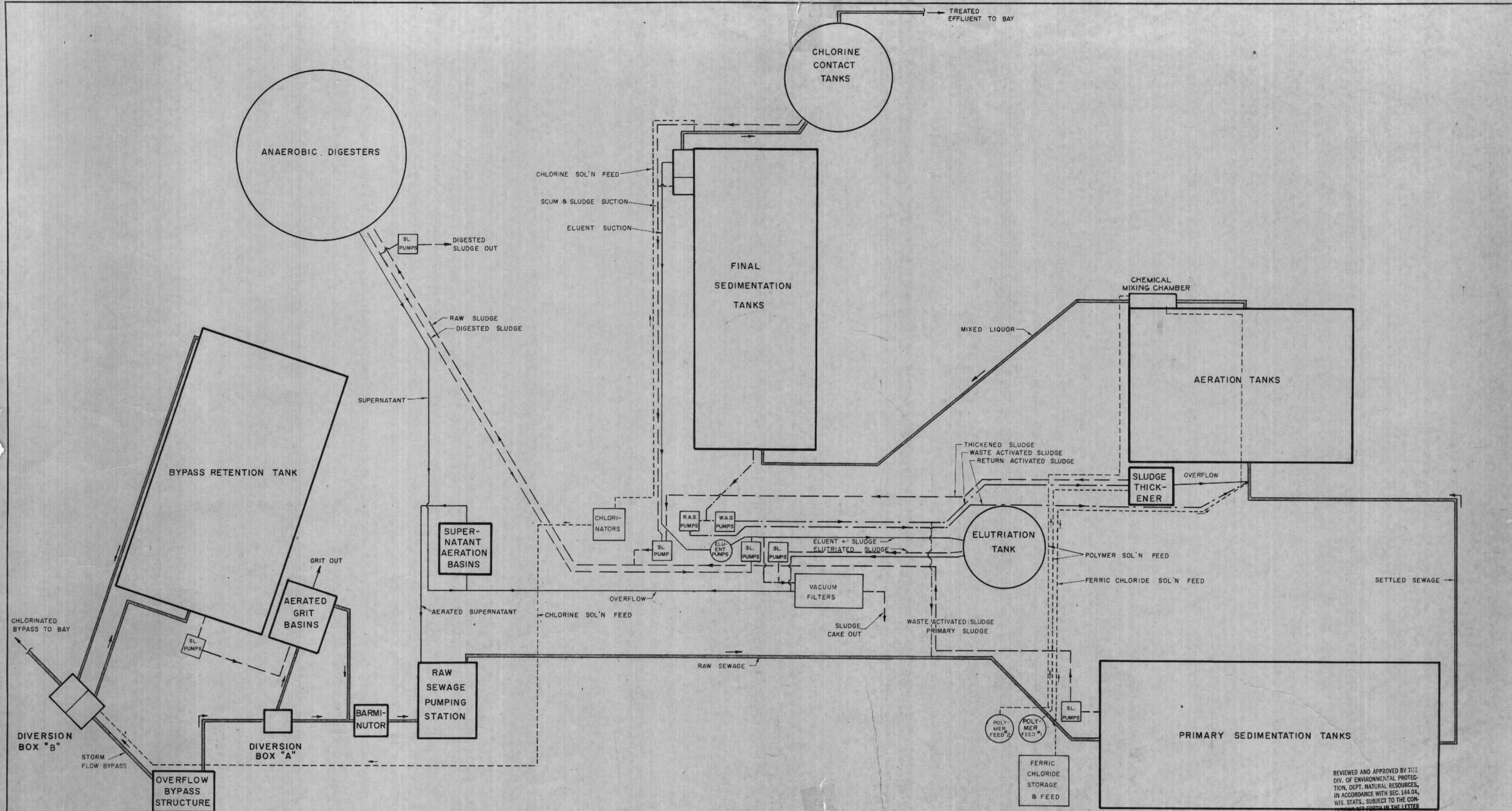
DNR JAN 3 1974

BURLEY	REVISIONS

BONESTRO, ROSE, ANDERLIZ & ASSOC., INC.
 ST. PAUL, MINNESOTA

SUPERIOR, WISCONSIN
 DATE: FEBRUARY 2, 1974 COMM. 6886A

LOCATION PLAN
 AND

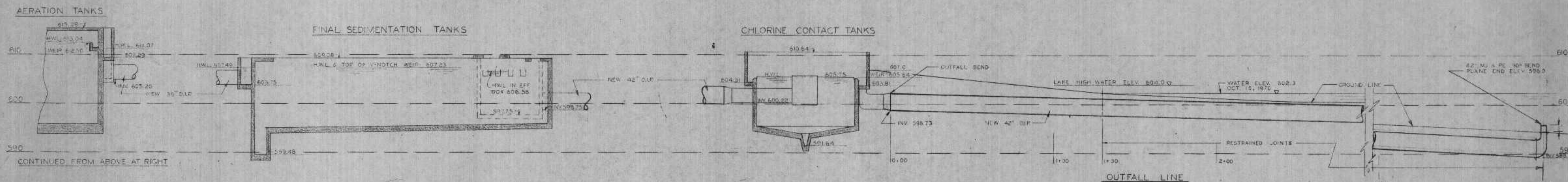
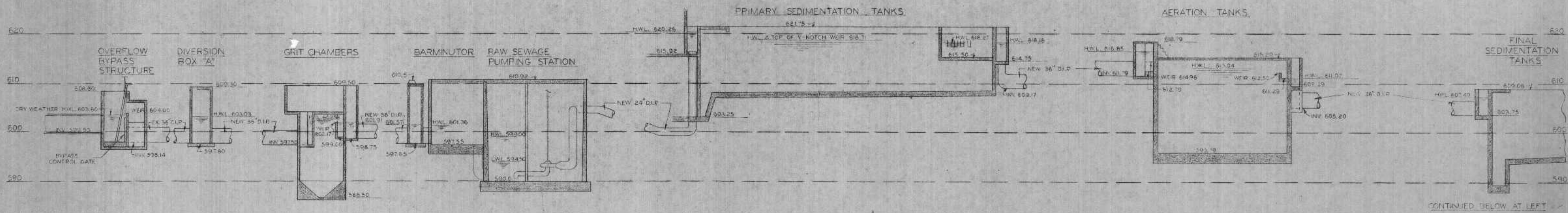


FLOW DIAGRAM
NO SCALE

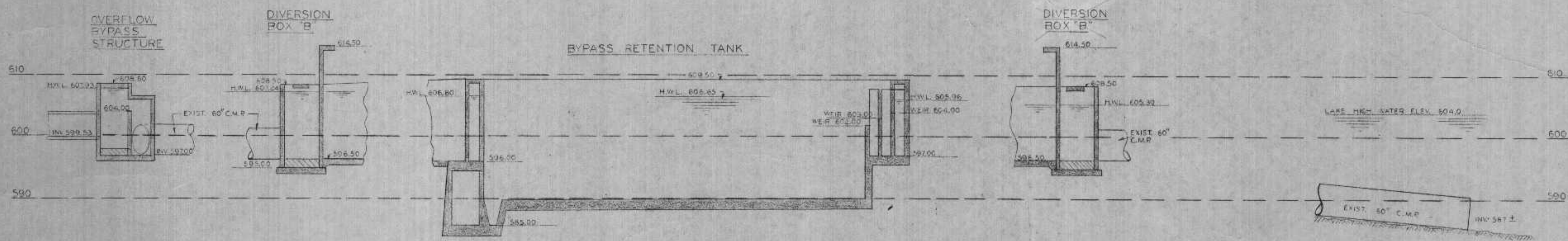
REVIEWED AND APPROVED BY THE
DIV. OF ENVIRONMENTAL PROTECTION,
DEPT. NATURAL RESOURCES,
IN ACCORDANCE WITH SEC. 144.04,
WIS. STATS., SUBJECT TO THE CON-
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OF APPROVAL.
THOMAS G. FRANCOIS
ADMINISTRATOR

APPROVAL NO. *34*
72 355
DATE: FEB 4 '74

DNR JAN 3-1974



MAIN TREATMENT PLANT SEQUENCE
 AT MAXIMUM FLOW



WET WEATHER BYPASS SEQUENCE
 AT MAXIMUM FLOW & LAKE HIGH WATER ELEVATION -
 ALL H.W.L.'S APPROX. 2.0' LOWER AT NORMAL LAKE WATER ELEVATION

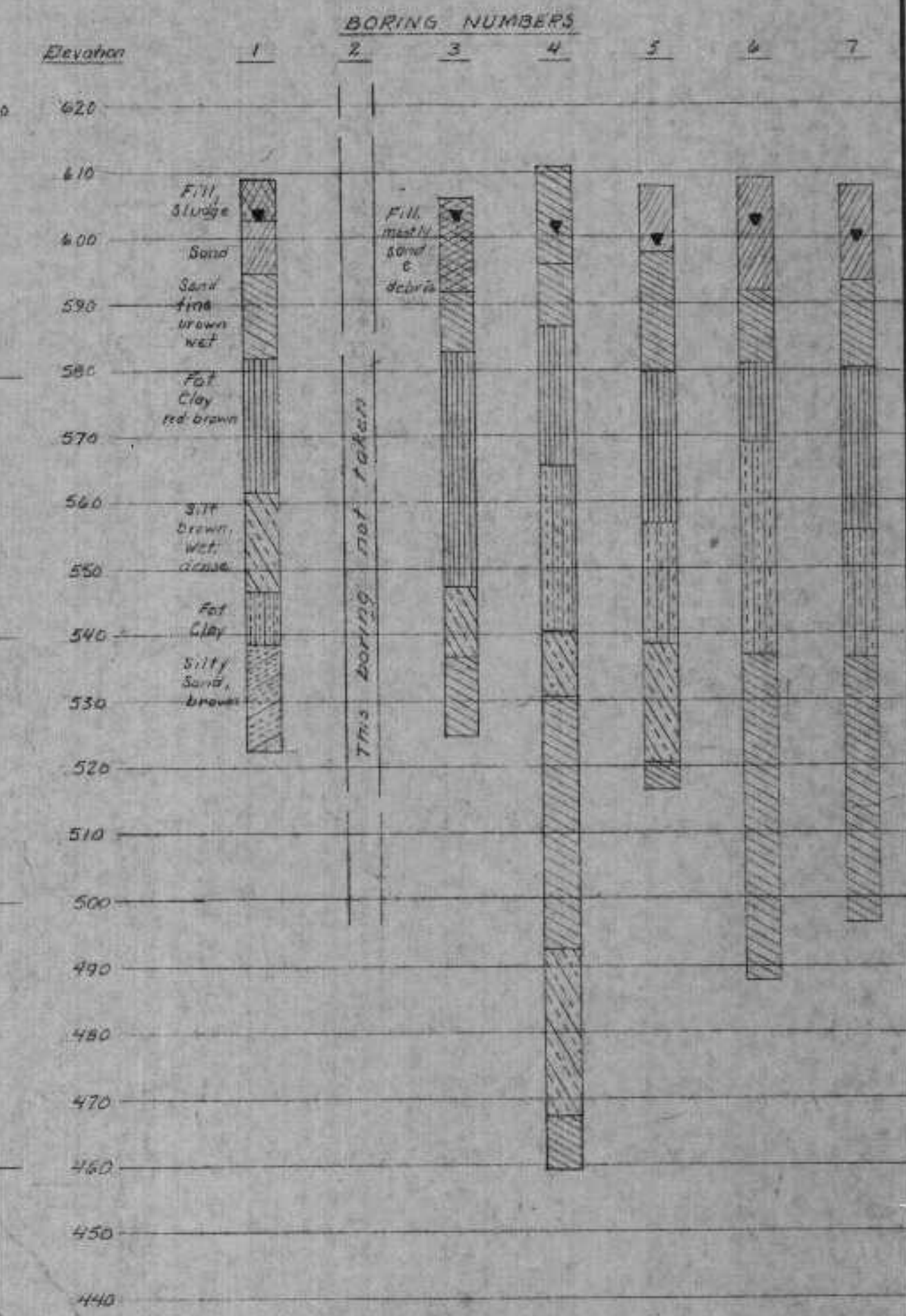
HYDRAULIC PROFILES
 HORIZ. 1" = 20'
 VERT. 1" = 10'

REVIEWED AND APPROVED BY THE
 DIV. OF ENVIRONMENTAL PROTECTION,
 DEPT. NATURAL RESOURCES,
 IN ACCORDANCE WITH SEC. 144.04,
 WIS. STATS., SUBJECT TO THE CONDITIONS SET FORTH IN THE LETTER OF APPROVAL.
 THOMAS G. FRANGOS
 ADMINISTRATOR

APPROVAL NO. 72 355
 DATE: FEB 4 '74

DNR JAN 3 1974

SOIL BORING LOG



Boring Scale 1" = 20' vertical
 Denotes Water Table - Jan. 1970

SOIL NOTES:

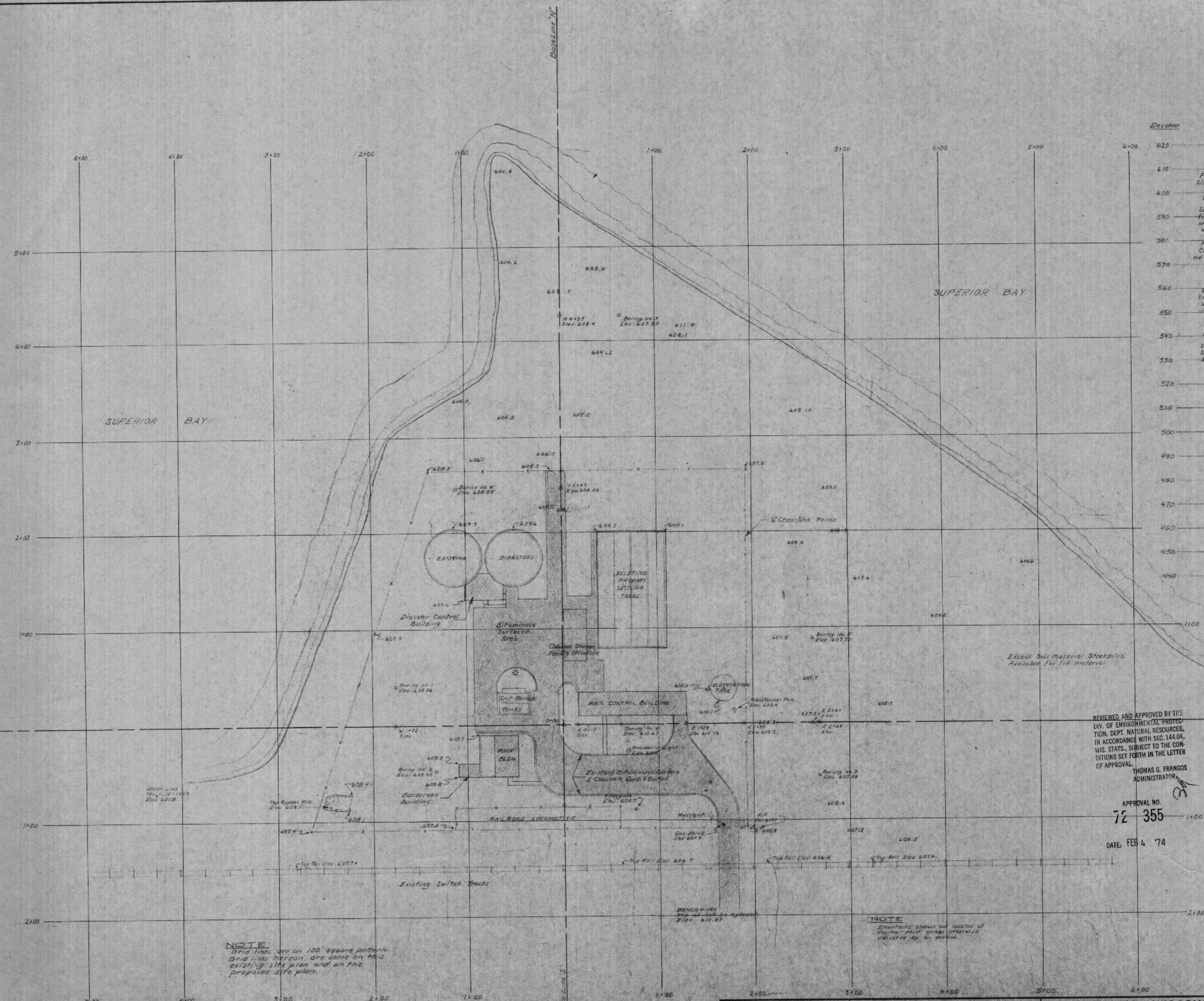
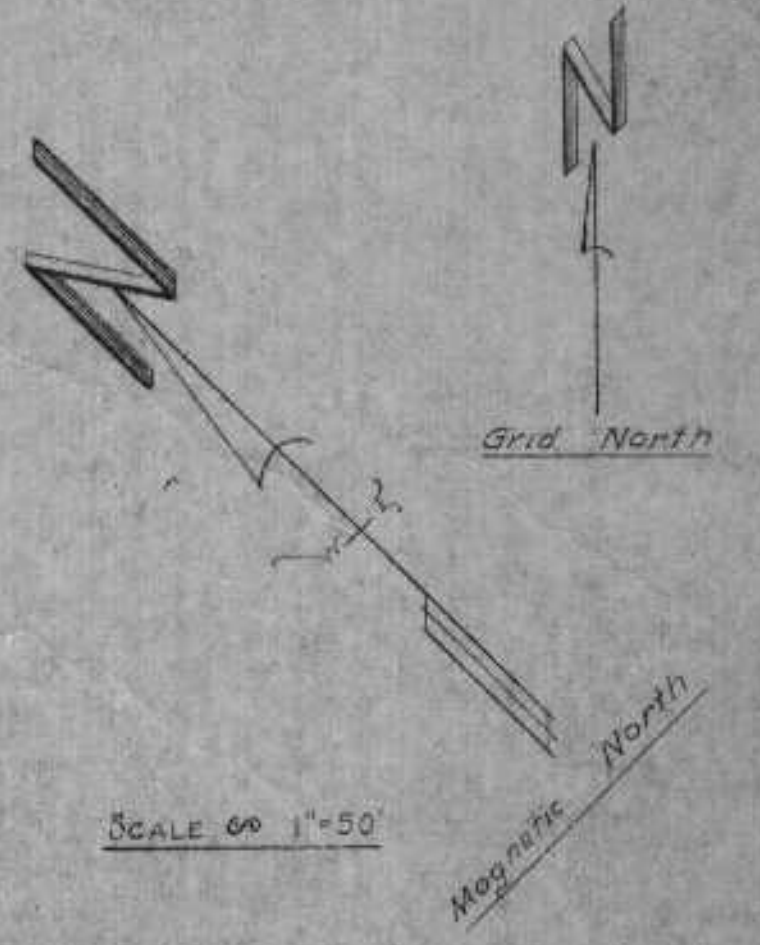
1. Each symbol for soil is located only once in log. Recurrence of symbol is for same type of soil.
2. Soil borings shown here were made by Landward Testing Laboratory, Inc., Duluth, Minnesota, during January 1970.
3. Soil borings are shown for information only and no warranty is given on varying conditions. The contractor shall be responsible for determining and investigating soil conditions prior to bidding.

WATER LINE
 May 11, 1969
 Elev. 601.8

REVIEWED AND APPROVED BY THE
 DIV. OF ENVIRONMENTAL PROTECTION,
 DEPT. NATURAL RESOURCES,
 IN ACCORDANCE WITH SEC. 144.04,
 WIS. STATS., SUBJECT TO THE CONDITIONS SET FORTH IN THE LETTER OF APPROVAL.
 THOMAS G. FRANGOS
 ADMINISTRATOR

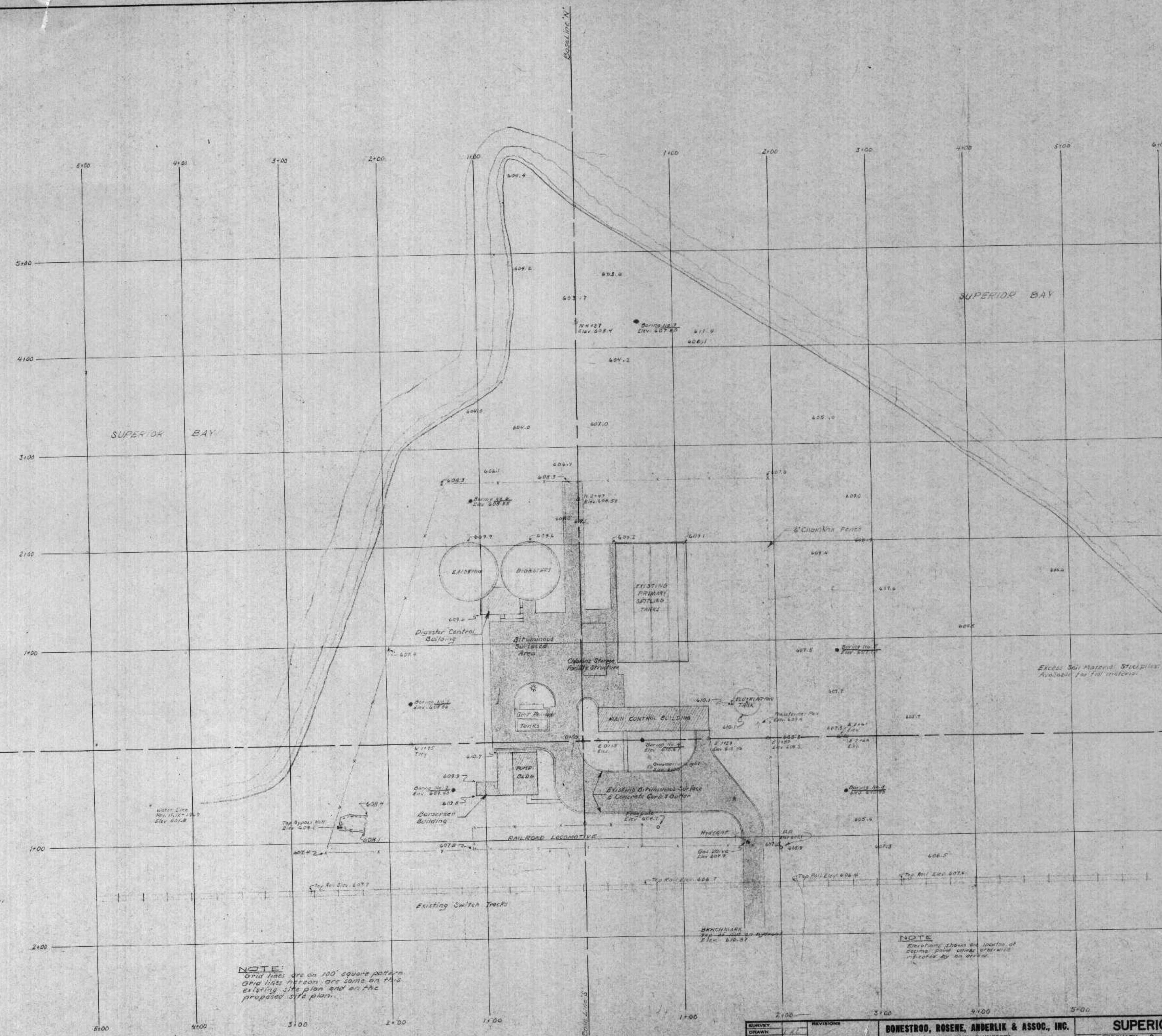
APPROVAL NO.
72 355

DATE FEB 4 '74

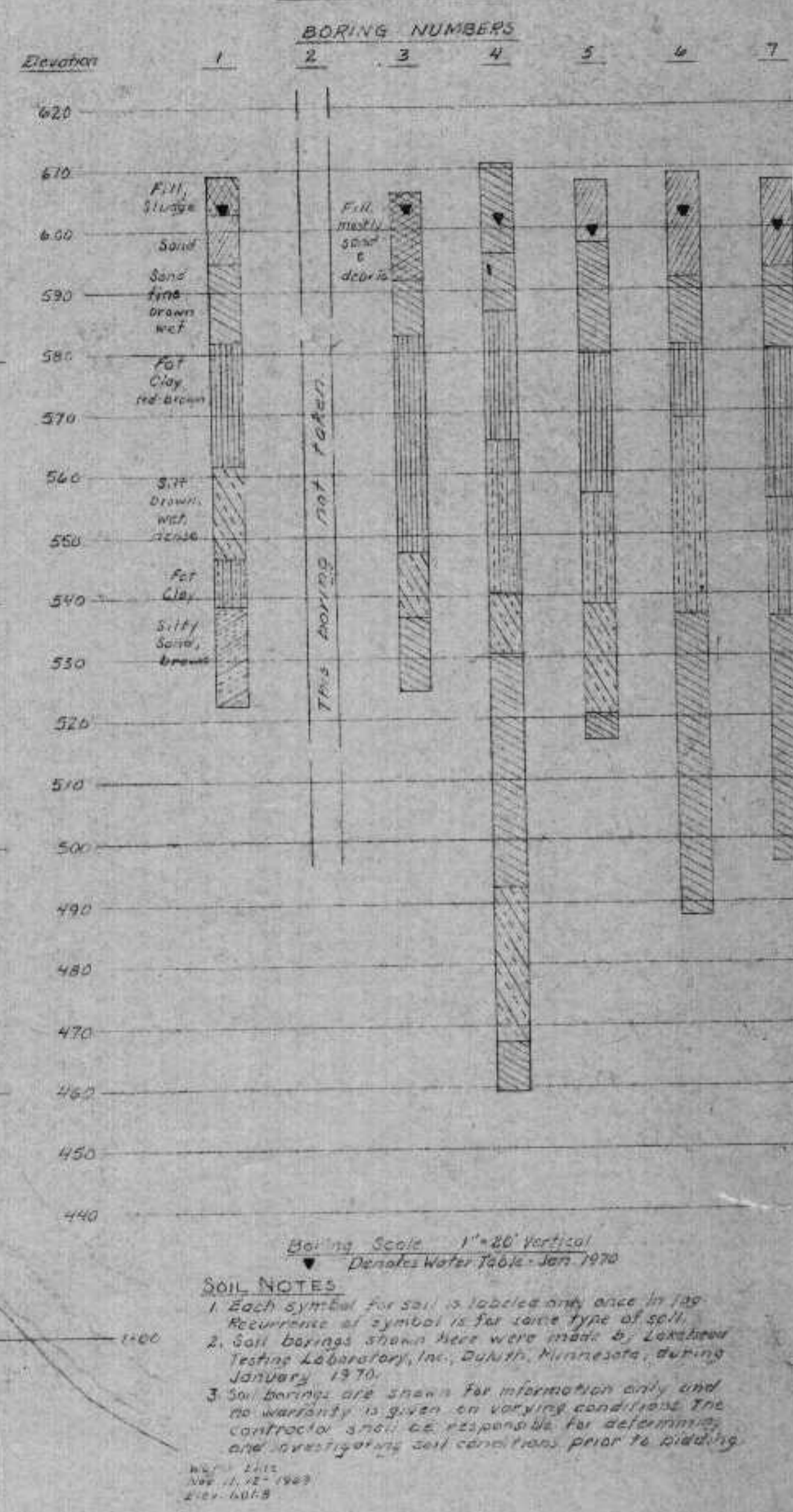


NOTE:
 Grid lines are on 100' square pattern.
 Grid lines shown are same on P&E existing site plan and on the proposed site plan.

NOTE:
 Elevation shown on location of boring shall unless otherwise indicated be as shown.



SOIL BORING LOG



Boring Scale 1"=20' Vertical
 Denotes Water Table - Jan. 1970

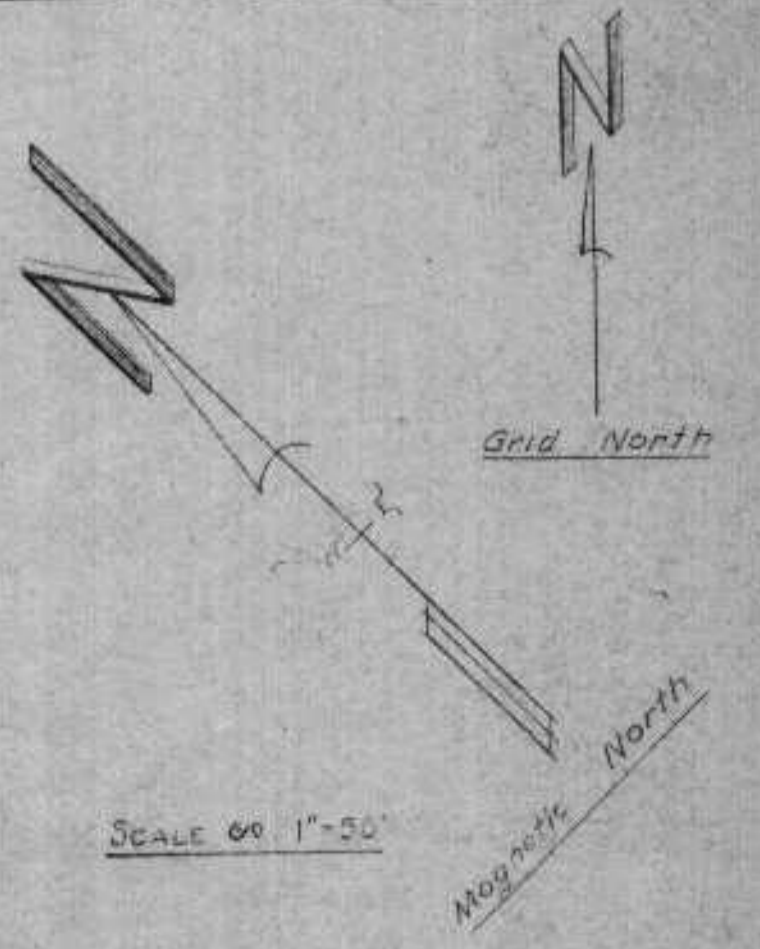
SOIL NOTES

1. Each symbol for soil is labeled only once in log. Recurrence of symbol is for same type of soil.
2. Soil borings shown here were made by Lambeau Testing Laboratory, Inc., Duluth, Minnesota, during January, 1970.
3. Soil borings are shown for information only and no warranty is given on varying conditions. The contractor shall be responsible for determining and investigating soil conditions prior to building.

W.C. 1116
 Nov. 11, 12, 1969
 215-6618

NOTE:
 Grid lines are on 100' square pattern. Grid lines shown are same on this existing site plan and on the proposed site plan.

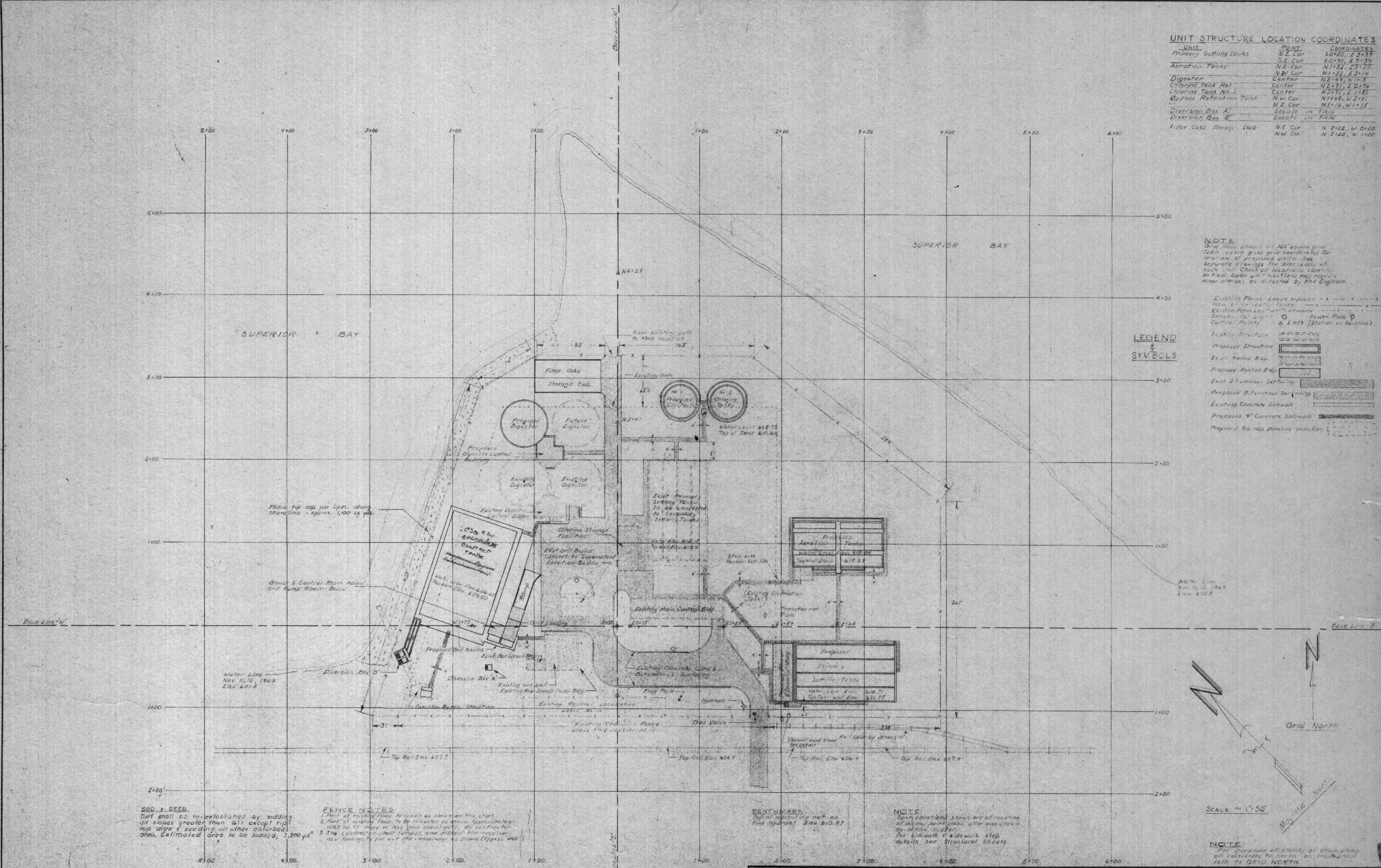
NOTE:
 Elevations shown on location of points shown unless otherwise indicated by an arrow.



UNIT	POINT	COORDINATES
Primary Settling Tanks	N.E. Cor.	50+20, E 3+53
	S.E. Cor.	50+20, E 3+34
	N.W. Cor.	51+32, E 3+15
Aeration Tanks	N.E. Cor.	51+32, E 3+14
	N.W. Cor.	51+32, E 3+14
Digester	Center	N 2+44, W 1+18
	Center	N 2+71, E 0+76
Chlorine Tank No. 1	Center	N 2+71, E 1+33
	Center	N 2+71, E 1+33
Chlorine Tank No. 2	N.E. Cor.	N 1+45, W 1+01
	N.W. Cor.	N 1+16, W 1+13
Bypass Retention Tank	N.E. Cor.	N 1+45, W 1+01
	N.W. Cor.	N 1+16, W 1+13
Diverison Box A	Locate on Plan	
	Locate on Plan	
Diverison Box B	Locate on Plan	
	Locate on Plan	
Filter Cake Storage Slab	N.E. Cor.	N 3+22, W 0+20
	N.W. Cor.	N 3+22, W 1+00

NOTE
Grid lines shown on 100' square grid table above grid coordinates for reference of proposed units. See separate drawings for details of each unit. Check all elevations carefully. In field, some unit locations may require minor change, as directed by the Engineer.

- LEGEND & SYMBOLS**
- Existing Fence - Leave in place
 - New 6" Locals - Fences
 - Existing Fences - Leave in place
 - Existing Foundations - Leave in place
 - Existing Light - Power Poles
 - Control Points - Δ & \square (Station on baseline)
 - Existing Structures
 - Proposed Structures
 - Exist. Retain. Wall
 - Proposed Retain. Wall
 - Exist. Bituminous Surfacing
 - Proposed Bituminous Surfacing
 - Existing Concrete Sidewalk
 - Proposed 4" Concrete Sidewalk
 - Proposed Air-rap shoreline protection



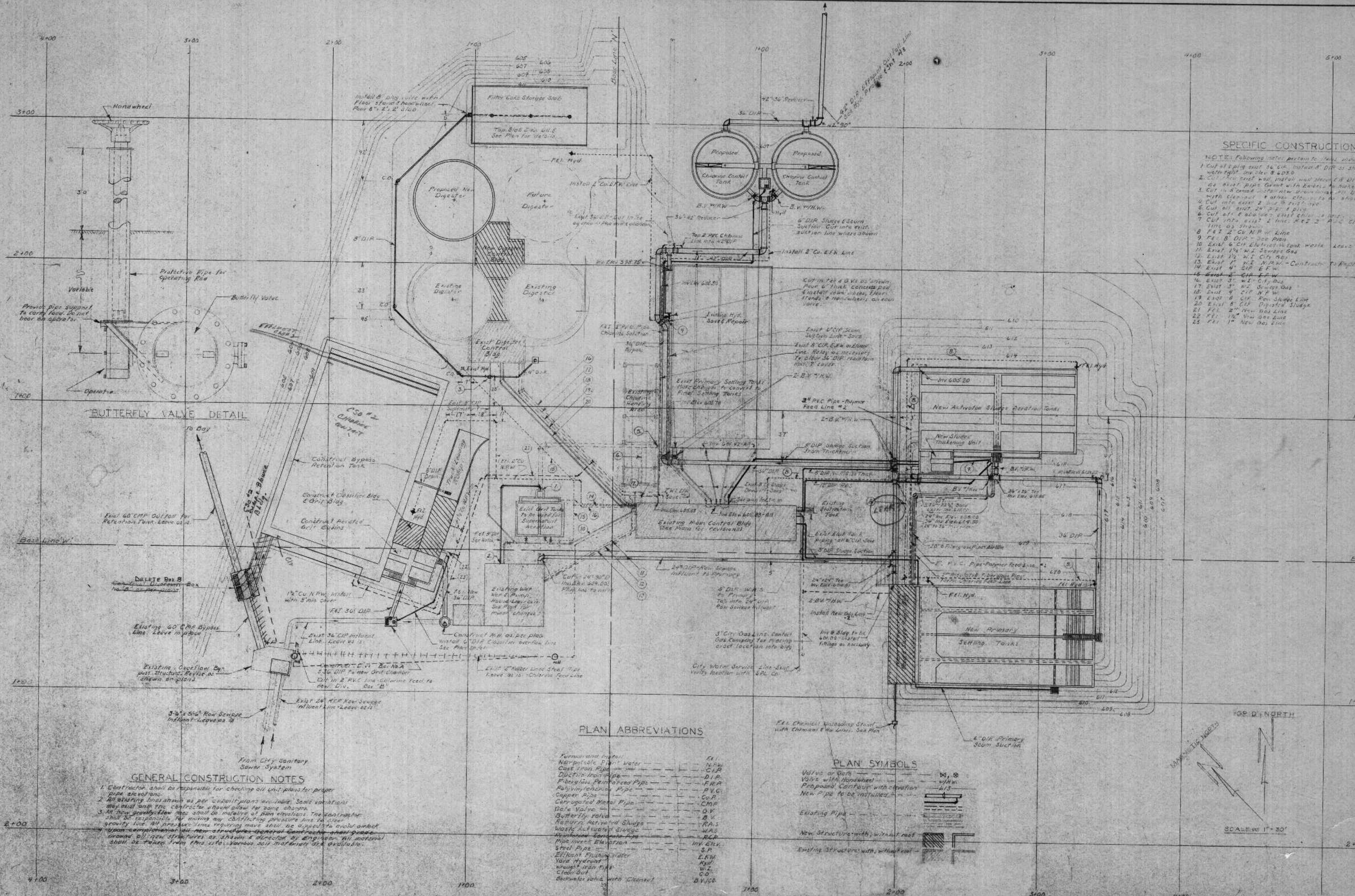
SOIL SEED
Turf shall be re-established by seeding turf shall be greater than 60' except for top area of seeding all other disturbed area. Estimated area to be seeded, 3,300 sq. ft.

FENCE NOTES
1. Part of existing fence to remain as shown on this sheet.
2. Part of existing fence to be replaced as shown. Approximately 100' of fence to be replaced. By contractor.
3. The contractor shall furnish and install the necessary new fencing to fill out the remainder as shown. (Approx. 400')

BENCHMARK
Top of existing curb on line hydrant, Sta. 610.87

NOTE
Spot elevations shown are at location of existing concrete curb. Other spot elevations are shown at various locations. For sidewalk & sidewalk step details see Structural Sheets.

NOTE
For purposes of clarity, all elevations on this plan are given in feet on GRID NORTH.



- ### SPECIFIC CONSTRUCTION NOTES
- NOTE: Following notes pertain to this sheet only.
1. Cut & cover 36" dia. existing 8" DIP as shown on plan in the vicinity of station 1+00.
 2. Cut & cover 36" dia. existing 8" DIP as shown on plan in the vicinity of station 2+00.
 3. Cut & cover 36" dia. existing 8" DIP as shown on plan in the vicinity of station 3+00.
 4. Cut & cover 36" dia. existing 8" DIP as shown on plan in the vicinity of station 4+00.
 5. Cut & cover 36" dia. existing 8" DIP as shown on plan in the vicinity of station 5+00.
 6. Cut & cover 36" dia. existing 8" DIP as shown on plan in the vicinity of station 6+00.
 7. Cut & cover 36" dia. existing 8" DIP as shown on plan in the vicinity of station 7+00.
 8. P.E.T. 2" Co. N.P.W. Line
 9. P.E.T. 3" Co. N.P.W. Line
 10. P.E.T. 4" Co. N.P.W. Line
 11. P.E.T. 6" Co. N.P.W. Line
 12. P.E.T. 8" Co. N.P.W. Line
 13. P.E.T. 10" Co. N.P.W. Line
 14. P.E.T. 12" Co. N.P.W. Line
 15. P.E.T. 14" Co. N.P.W. Line
 16. P.E.T. 16" Co. N.P.W. Line
 17. P.E.T. 18" Co. N.P.W. Line
 18. P.E.T. 20" Co. N.P.W. Line
 19. P.E.T. 22" Co. N.P.W. Line
 20. P.E.T. 24" Co. N.P.W. Line
 21. P.E.T. 26" Co. N.P.W. Line
 22. P.E.T. 28" Co. N.P.W. Line
 23. P.E.T. 30" Co. N.P.W. Line
 24. P.E.T. 32" Co. N.P.W. Line
 25. P.E.T. 34" Co. N.P.W. Line

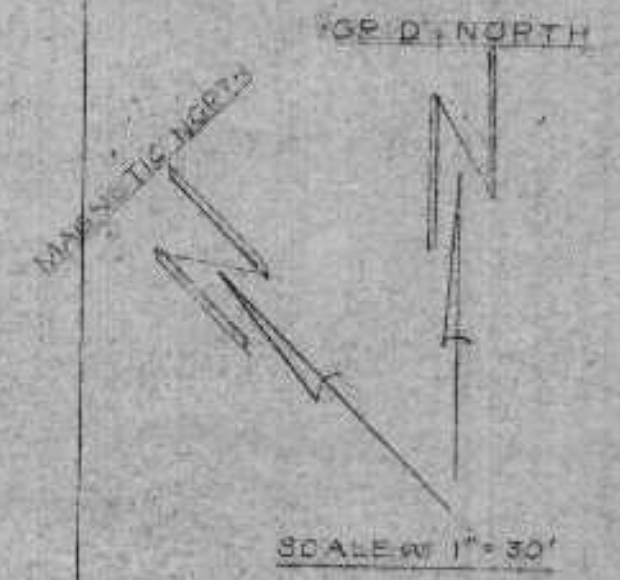
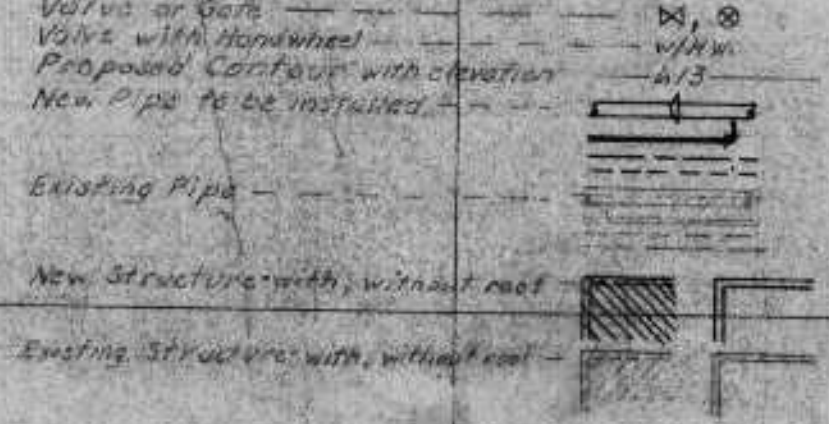


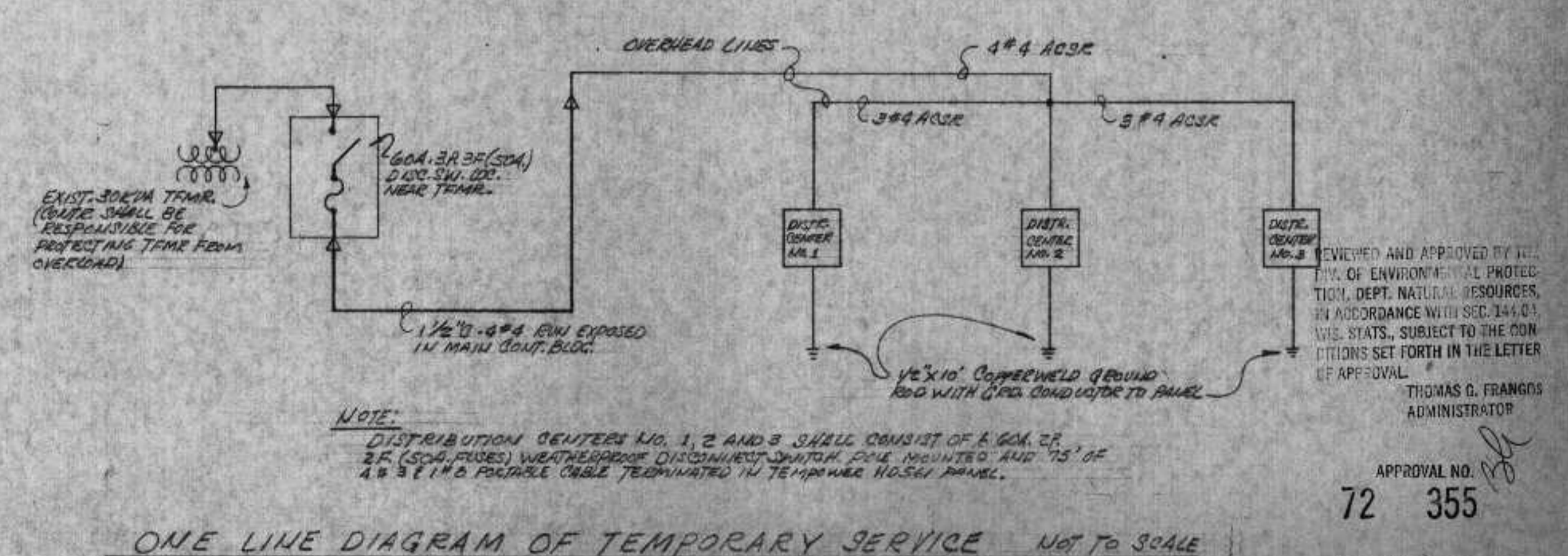
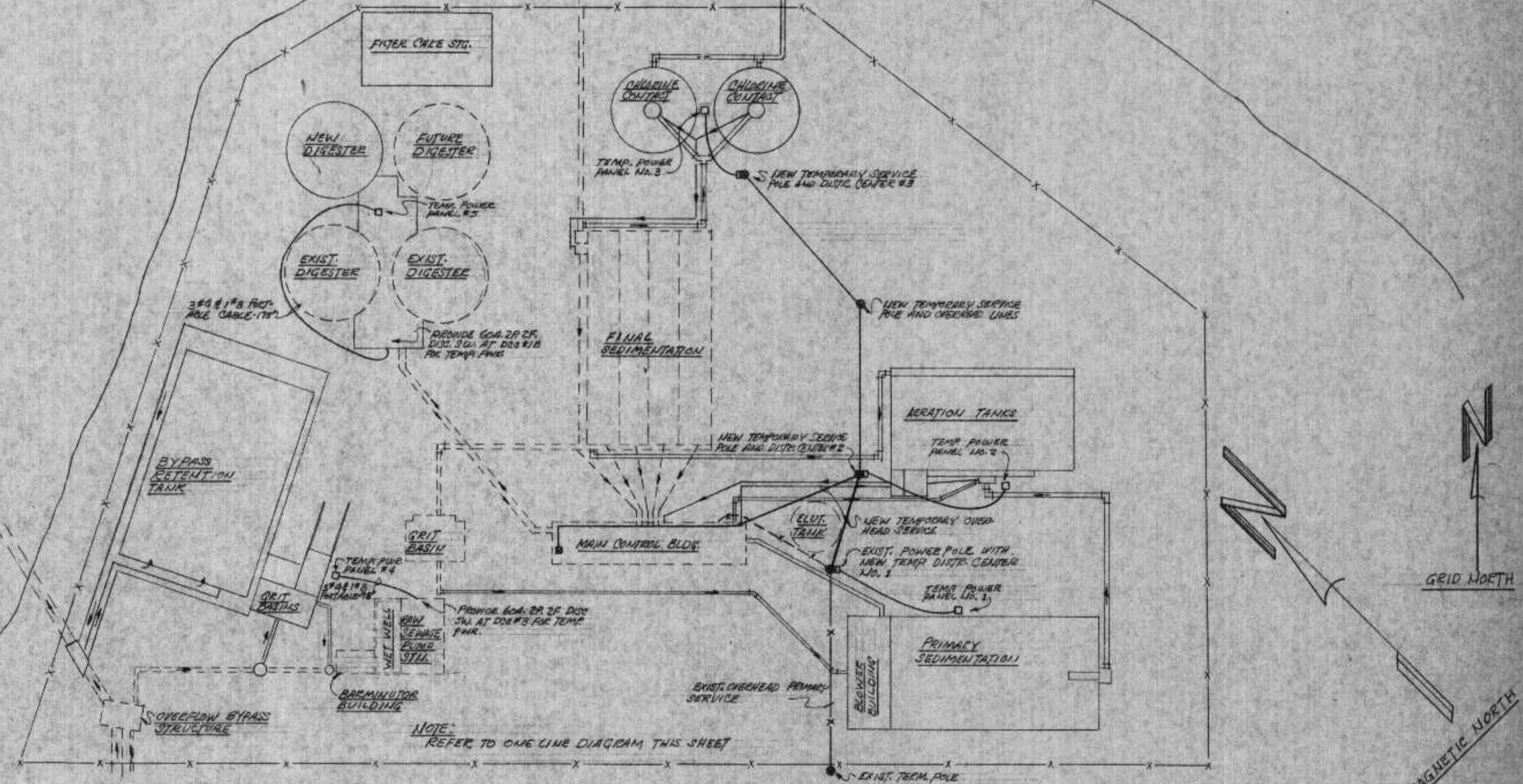
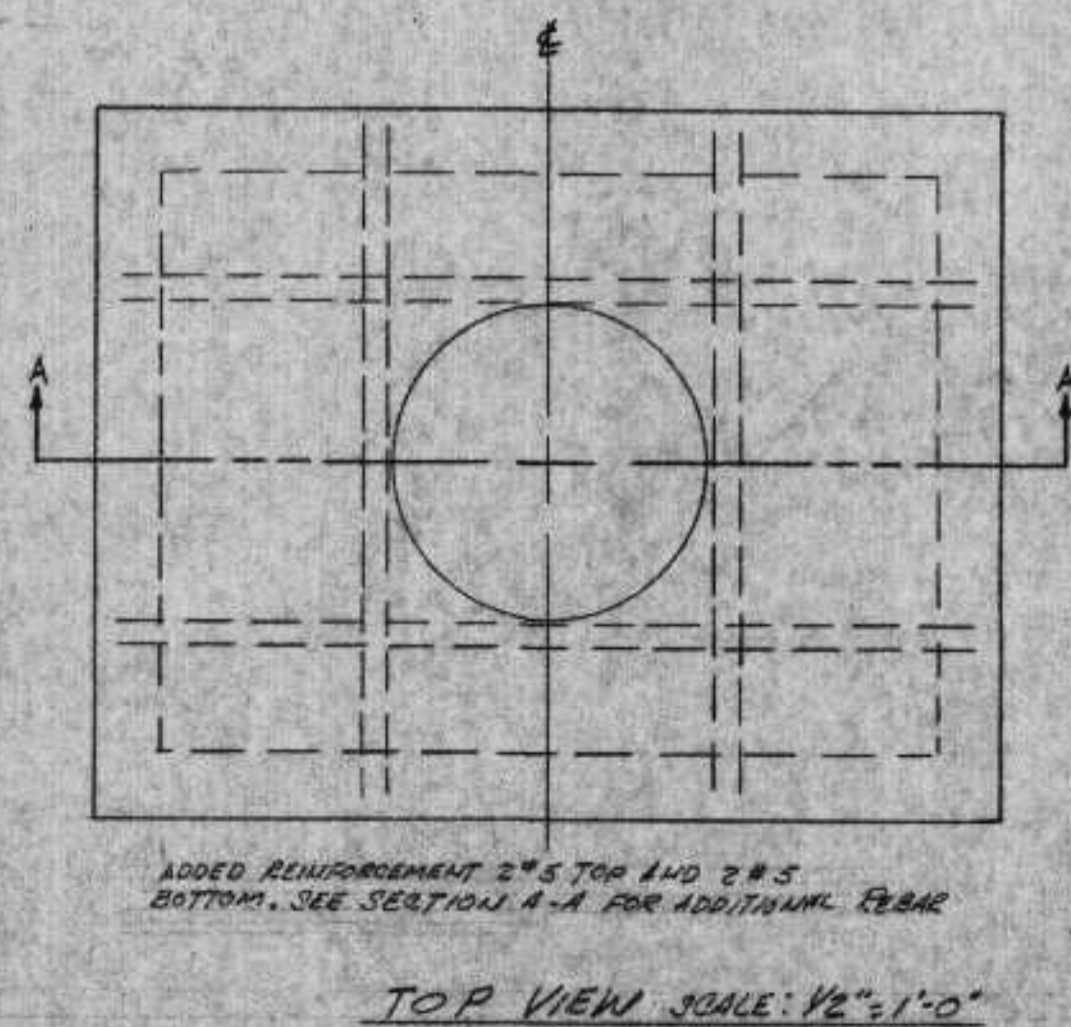
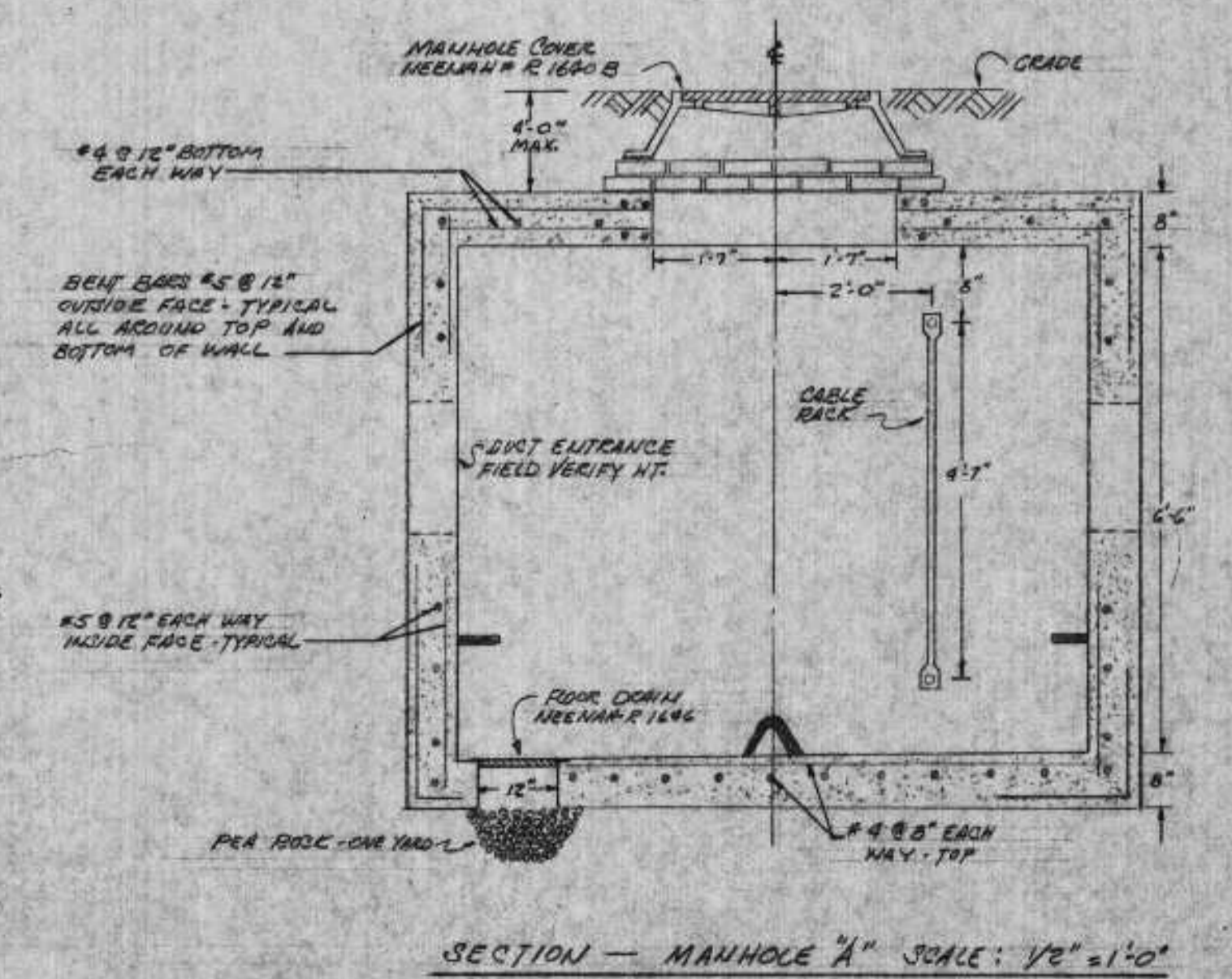
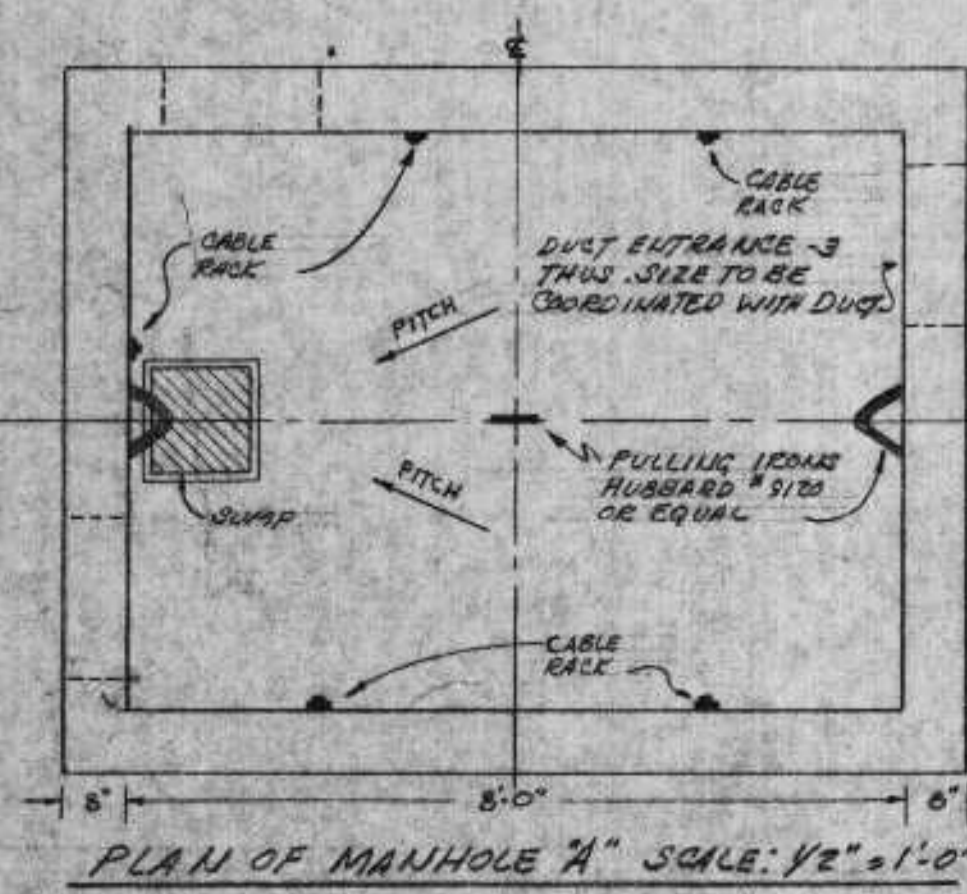
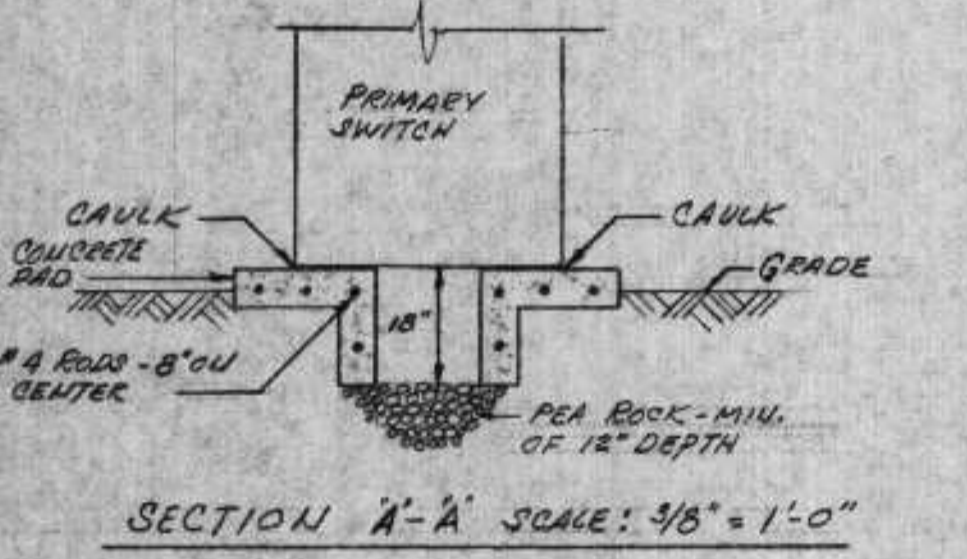
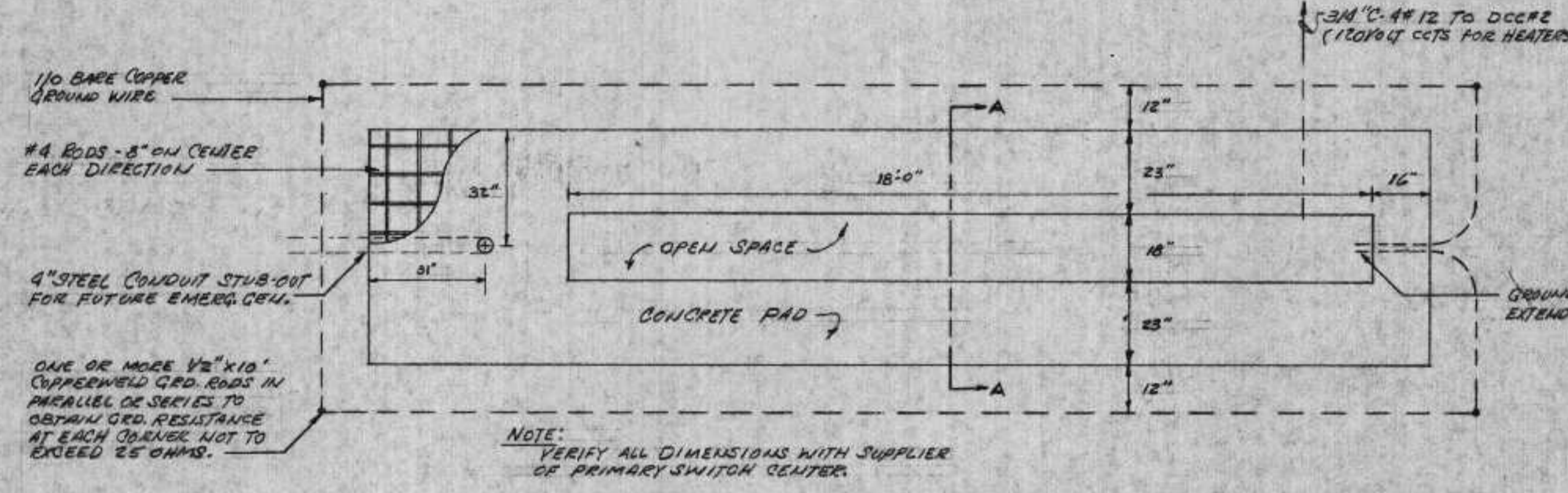
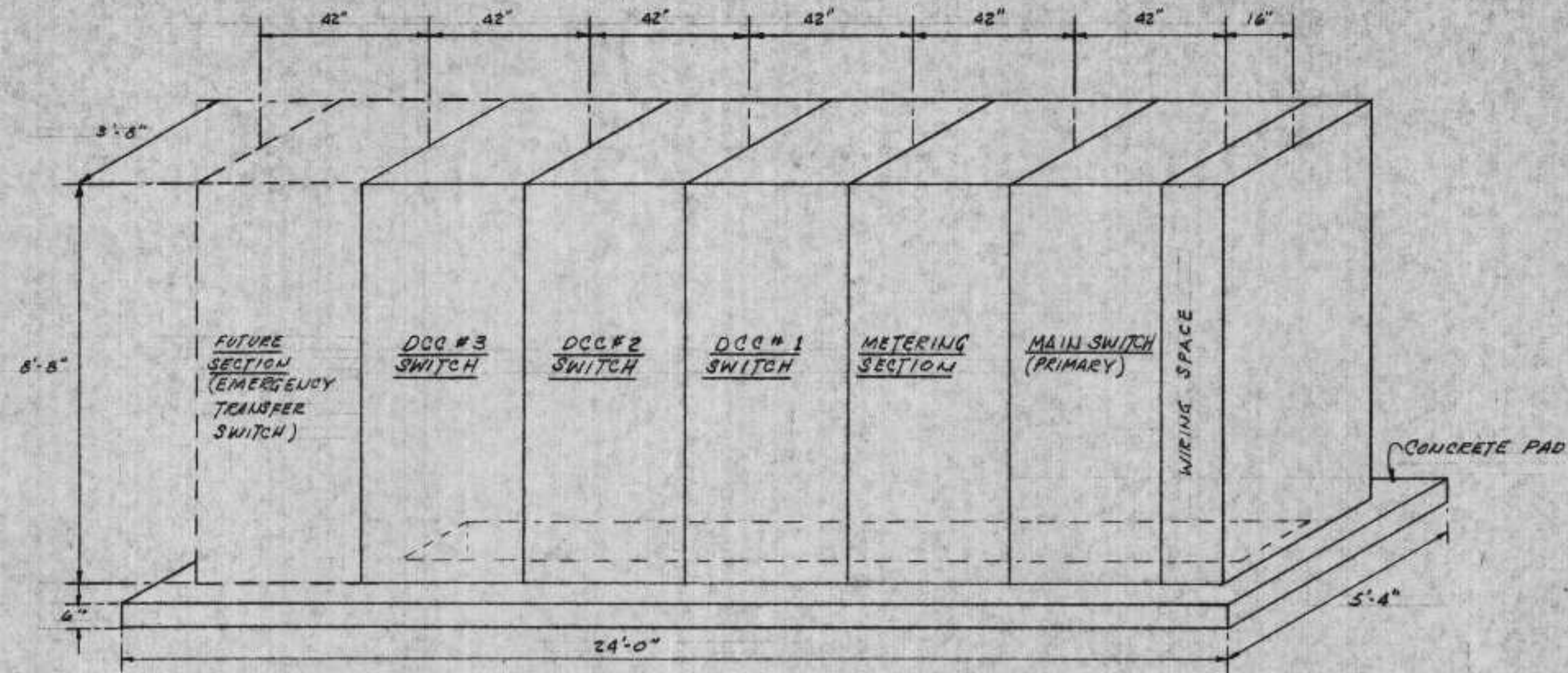
- ### GENERAL CONSTRUCTION NOTES
1. Contractor shall be responsible for checking all utility plans for proper pipe elevations.
 2. All existing lines shown as per existing plans available. Some variations may exist and the contractor should allow for same where shown.
 3. All new construction shall be in accordance with the specifications. The contractor shall be responsible for making any clarifying provisions and for the gravity lines. All pressure lines requiring valves shall be placed to avoid ambient ground conditions. All new structures shall be constructed of concrete. All material shall be placed from this site. Various soil materials shall be excluded.

PLAN ABBREVIATIONS

Forwarded from	FEI
Non-potable Plant Water	N.P.W.
Cast Iron Pipe	C.I.P.
Ductile Iron Pipe	D.I.P.
Plastic Pipe	P.P.
Galvanized Steel Pipe	G.S.P.
Copper Pipe	C.P.
Corrugated Metal Pipe	C.M.P.
Draft Valve	D.V.
Butterfly Valve	B.V.
Regenerative Activated Sludge	R.A.S.
Waste Activated Sludge	W.A.S.
Reactivated Sludge	R.S.
Pipe Invert Elevation	INV. ELEV.
Steel Pipe	S.P.
Effluent Flushing Water	E.F.W.
Yard Hydrant	Y.H.
Wrought Iron Pipe	W.I.P.
Cast-But	C.B.
Backwater Valve with Cleanout	B.V./C.

PLAN SYMBOLS





REVIEWED AND APPROVED BY THE DIV. OF ENVIRONMENTAL PROTECTION, DEPT. NATURAL RESOURCES, IN ACCORDANCE WITH SEC. 14.01, WIS. STATS. SUBJECT TO THE CONDITIONS SET FORTH IN THE LETTER OF APPROVAL.
THOMAS G. FRANGOS
ADMINISTRATOR

APPROVAL NO. 72 355
DATE: FEB 4 '74

DNR JAN 23 1974

MOTOR, APPLIANCE AND EQUIPMENT SCHEDULE									
NUMBER	EQUIPMENT	SIZE	VOLT & #	LOCA.	CONTROL	CONT. LOCA.	STARTER SIZE	STARTER LOCA.	DISC SIZE & TYPE
71	UNIT HEATER #6	1/6	120-1	BOILER BLDG. FIRST	STAT #	BLOWER BLDG.	NONE	-	MS
72	UNIT HEATER #7	1/6	120-1	BLOWER BLDG. FIRST	STAT #	BLOWER BLDG.	NONE	-	MS
73	UNIT HEATER #8	1/6	120-1	BLOWER BLDG. SECOND	STAT #	BLOWER BLDG.	NONE	-	MS
74	UNIT HEATER #9	1/6	120-1	BLOWER BLDG. SECOND	STAT #	BLOWER BLDG.	NONE	-	MS
75	UNIT HEATER #10	1/6	120-1	BLOWER BLDG. SECOND	STAT #	BLOWER BLDG.	NONE	-	MS
76	EXH. FAN E-5	1/4	120-1	BLOWER BLDG. SECOND	MS & P (35)	BLOWER BLDG.	NONE	-	MS
77	HTG. PUMP P-2	1/4	120-1	BLOWER BLDG. FIRST	STAT #	BLOWER BLDG.	NONE	-	MS
78	HTG. PUMP P-3	1/6	120-1	BLOWER BLDG. FIRST	STAT #	BLOWER BLDG.	NONE	-	MS
79	HTG. PUMP P-4	1-1/2	460-3	BLOWER BLDG.	START STOP	DCC#2	0	DCC#2	-
80	EXIST. RAW SLUDGE PUMP #1 (17)	7-1/2	460-3	CONTROL BLDG.	EXIST. (21) START STOP & P	-	1	-	-
81	EXIST. RAW SLUDGE PUMP #2 (17)	7-1/2	460-3	CONTROL BLDG.	EXIST. (21)	-	1	-	-
82	EXIST. SCUM PUMP	7-1/2	460-3	CONTROL BLDG.	TIMER (23)	DCC#1	EXIST.	DCC#1	-
83	EXIST. BLOWER #1 (17)	3	460-3	CONTROL BLDG.	EXIST. P.B. (22)	AT MTR.	EXIST. 0	DCC#1	-
84	EXIST. BLOWER #2 (17)	3	460-3	CONTROL BLDG.	EXIST. P.B. (22)	AT MTR.	EXIST. 0	DCC#1	-
85	EXIST. BLOWER #3 (17)	3	460-3	CONTROL BLDG.	EXIST. P.B. (22)	AT MTR.	EXIST. 0	DCC#1	-
86	EXIST. PLANT FLUSHING WATER PUMP #1(17)	15	460-3	CONTROL BLDG.	EXIST. DUATROL AND ALT. (22)	AT MTR.	EXIST.	DCC#1	-
87	EXIST. PLANT FLUSHING WATER PUMP #2(17)	15	460-3	CONTROL BLDG.	EXIST. DUATROL AND ALT. (22)	AT MTR.	EXIST.	DCC#1	-
88	EXIST. HOT WATER CIRCULATOR	1/6	120-1	CONTROL BLDG.	EXIST. MS & P (22)	AT UNIT	NONE	-	-
89	EXIST. HOT WATER CIRCULATOR	1/6	120-1	CONTROL BLDG.	EXIST. MS & P (22)	AT UNIT	NONE	-	-
90	EXIST. AIR COMP. #1	1-1/2	460-3	CONTROL BLDG.	EXIST. PRESS SW (22)	AT UNIT	EXIST.	DCC#1	-
91	EXIST. AIR COMP. #2	1-1/2	460-3	CONTROL BLDG.	EXIST. PRESS SW (22)	AT UNIT	EXIST.	DCC#1	-
92	EXIST. SLUDGE DE-WATERING PUMP #1	3	460-3	CONTROL BLDG.	EXIST. P. B. (22)	SLUDGE FILTER ROOM	EXIST.	DCC#1	-
93	EXIST. SLUDGE DE-WATERING PUMP #2	3	460-3	CONTROL BLDG.	EXIST. P. B. (22)	SLUDGE FILTER ROOM	EXIST.	DCC#1	-
94	EXIST. SLUDGE DE-WATERING PUMP #3	3	460-3	CONTROL BLDG.	EXIST. P. B. (22)	SLUDGE FILTER ROOM	EXIST.	DCC#1	-
95	EXIST. SLUDGE DE-WATERING PUMP #4	3	460-3	CONTROL BLDG.	EXIST. P. B. (22)	SLUDGE FILTER ROOM	EXIST.	DCC#1	-
96	EXIST. OVERHEAD DOOR	1/2	120-1	CONTROL BLDG.	EXIST. (22)	SLUDGE FILTER ROOM	-	-	-
97	EXIST. PIPE SPACE VENT.	1/4	120-1	CONTROL BLDG.	EXIST. (22)	CONTROL	NONE	-	-
98	EXIST. UNIT HEATER #1 (7)	1/20	460-3	CONTROL BLDG.	EXIST. STAT (22)	HALL	NONE	-	-
99	EXIST. UNIT HEATER #2 (7)	1/20	460-3	CONTROL BLDG.	EXIST. STAT (22)	PUMP ROOM	NONE	-	-
100	EXIST. UNIT HEATER #3 (7)	1/20	460-3	CONTROL BLDG.	EXIST. STAT (22)	PUMP ROOM	NONE	-	-
101	EXIST. UNIT HEATER #4 (7)	1/20	460-3	CONTROL BLDG.	EXIST. STAT (22)	PUMP ROOM	NONE	-	-
102	EXIST. SUMP PUMP	1/3	120-1	CONTROL BLDG.	EXIST. FLOAT SW. (22)	AT UNIT	NONE	-	-

MOTOR, APPLIANCE AND EQUIPMENT SCHEDULE									
NUMBER	EQUIPMENT	SIZE	VOLT & #	LOCA.	CONTROL	CONT. LOCA.	STARTER SIZE	STARTER LOCA.	DISC SIZE & TYPE
36	BARMINUTOR (17)	3	460-3	BARMINUTOR BLDG.	BUBBLER (18)	BARMINUTOR BLDG.	0	BARMINUTOR BLDG.	30A-3P-NF (EXP. PROOF)
37	RETURN ACTIVATED SLUDGE PUMP #1(17)	30	460-3	MAIN BLDG.	FLOW (19)	DCC#1A	3(34)	DCC#1A	-
38	RETURN ACTIVATED SLUDGE PUMP #2(17)	30	460-3	MAIN BLDG.	FLOW (19)	DCC#1A	3(34)	DCC#1A	-
39	WASTE ACTIVATED SLUDGE PUMP #1(17)	3	460-3	MAIN BLDG.	ORP (TIMER) (19)	DCC#1	0	DCC#1	-
40	WASTE ACTIVATED SLUDGE PUMP #2(17)	15	460-3	MAIN BLDG.	TIMER (19)	DCC#1	2	DCC#1	-
41	CHLORINE INJECTOR PUMP (17)	3	460-3	MAIN BLDG.	START STOP & P	DCC#1	0	DCC#1	-
42	EXIST. CHLORINE INJECTOR PUMP #2 (17)	10	460-3	MAIN BLDG.	INTERLOCK WITH NEW CHLORINATOR	DCC#1A	EXIST.	DCC#1	EXIST.
43	EXH. FAN E-6	1/8	120-1	BLOWER BLDG.	MS & P (35)	DCC#2	NONE	-	TOGGLE SW
44	POLYMER FEEDER (17)	1/2	460-3	BLOWER BLDG.	SEE SPECS	AT UNIT	0	AT UNIT	-
45	POLYMER FEEDER (17)	1/4	460-3	BLOWER BLDG.	SEE SPECS	AT UNIT	0	AT UNIT	-
46	FERRIC CHLORIDE PUMP (17)	3/4	460-3	BLOWER BLDG.	FLOW METER (19)	DCC#2	SEE SHT. 72	DCC#2	-
47	POLYMER FEEDER (17) PUMP #1	1/3	460-3	BLOWER BLDG.	INTERLOCK WITH MTR. #39 & 40	DCC#2	0	DCC #2	TOGGLE SW
48	PRIMARY SLUDGE PUMP (17)	7-1/2	460-3	BLOWER BLDG.	TIMER (19)	DCC#2	1	DCC#2	-
49	PRIMARY SLUDGE PUMP (17)	7-1/2	460-3	BLOWER BLDG.	TIMER (19)	DCC#2	1	DCC#2	-
50	BLOWER (17)	125	460-3	BLOWER BLDG.	FLOW METER (32) (19)	DCC#2	5(29)	DCC#2	-
51	BLOWER (17)	125	460-3	BLOWER BLDG.	FLOW METER (32) (19)	DCC#2	5(29)	DCC#2	-
52	BLOWER (17)	125	460-3	BLOWER BLDG.	FLOW METER (32) (19)	DCC#2	5(29)	DCC#2	-
53	BLOWER (17)	125	460-3	BLOWER BLDG.	FLOW METER (32) (19)	DCC#2	5(29)	DCC#2	-
54	DUAL SCRAPER DR. (17)	3/4	460-3	PRIMARY TANK	START STOP & P (20)	DCC#2	0	DCC#2	30A-3P-NF (WP)
55	DUAL SCRAPER DR. (17)	3/4	460-3	PRIMARY TANK	START STOP & P (20)	DCC#2	0	DCC#2	30A-3P-NF (WP)
56	PRIMARY TANK (17) CROSS COLLECTOR	1	460-3	PRIMARY TANK	INTERLOCK (20) WITH MTR. #54	DCC#2	0	DCC#2	30A-3P-NF (WP)
57	PRIMARY TANK (17) CROSS COLLECTOR	1	460-3	PRIMARY TANK	INTERLOCK (20) WITH MTR. #55	DCC#2	0	DCC#2	30A-3P-NF (WP)
58	SUMP PUMP	1/2	208-1	BLOWER BLDG.	FLOAT SW. (9)	AT SUMP	0	DCC#2	30A-2P-NF
59	SUPPLY FAN	1-1/2	460-3	DIGESTER BLDG.	START STOP & P (35)	DCC#1C	0	DCC#1C	-
60	EXH. FAN E-4	1/3	120-1	DIGESTER BLDG.	INTERLOCK WITH MTR. #59	DCC#1C	NONE	-	MS & P
61	HEATING PUMP P-1	1/3	120-1	DIGESTER BLDG.	INTERLOCK WITH MTR. #59	DCC#1C	NONE	-	MS & P
62	UNIT HEATER #2	1/8	120-1	GRIT BLDG.	ELECTRIC STAT	PUMP ROOM	NONE	-	MS
63	UNIT HEATER #3	1/8	120-1	GRIT BLDG.	ELECTRIC STAT	GRIT DENATERING RM.	NONE	-	MS
64	UNIT HEATER #4	1/40	120-1	GRIT BLDG.	ELECTRIC STAT	BLOWER ROOM	NONE	-	MS
65	UNIT HEATER #5	1/2	208-3	GRIT BLDG.	ELECTRIC STAT	GARAGE LOADING	0	GARAGE LOADING	30A-3P-NF
66	EXH. FAN E-2	1/8	120-1	GRIT BLDG.	MS & P (35)	DCC#3A	NONE	-	TOGGLE SW (30)
67	EXH. FAN E-3	1/20	120-1	GRIT BLDG.	MS & P (35)	DCC#3	NONE	-	TOGGLE SW (30)
68	FERRIC CHLORIDE AIR COMP. (17)	15	460-3	BLOWER BLDG.	START STOP & P	DCC#2	2	DCC#2	-
69	GAS COMPRESSOR HEATER (17)	6KW	460-3	DIGESTER TANK	BY MFR. (11)	AT UNIT	NONE	-	30A-3P-NF (WP)
70	BOILER	-	120-1	BLOWER BLDG.	STAT#	BLOWER BLDG.	NONE	-	MS

MOTOR, APPLIANCE AND EQUIPMENT SCHEDULE												
NUMBER	EQUIPMENT	SIZE	VOLT & #	LOCA.	CONTROL	CONT. LOCA.	STARTER SIZE	STARTER LOCA.	DISC SIZE & TYPE			
1	BRIDGE DRIVE (17)	3/4	460-3	RET. TANK	BUBBLER (1)	DCC#3A	BY MFR.	RET. TANK	30A-3P-3F (WP)			
2	HOIST DRUM	3/4	460-3	RET. TANK	BY MFR. (2)	ON BRIDGE	BY MFR.	RET. TANK	30A-3P-3F (WP)			
3	HELITHICKNER #1	1	460-3	RET. TANK	INTERLOCK (20) WITH MTR#1(3)	DCC#3A	0	DCC#3A	30A-3P-3F (WP)			
4	HELITHICKNER #2	1	460-3	RET. TANK	INTERLOCK (20) WITH MTR#1(3)	DCC#3A	0	DCC#3A	30A-3P-3F (WP)			
5	CABLE REEL	1/2	460-3	RET. TANK	BY OTHERS (4)	RET. TANK	BY MFR.	RET. TANK	-			
6	RET. SLUDGE PUMP #1 (17)	10	460-3	RET. TUNNEL	TIMER	DCC#3A	1	DCC#3A	30A-3P-NF			
7	RET. SLUDGE PUMP #2 (17)	10	460-3	RET. TUNNEL	TIMER	DCC#3A	1	DCC#3A	30A-3P-NF			
8	SUMP PUMP	1	208-1	RET. TUNNEL	FLOAT SW (6) (9)	RET. TUNNEL	0	DCC#3A	30A-2P-NF			
9	GRIT PUMP #1 (17)	20	460-3	GRIT BLDG.	START STOP & P (5)	GRIT DEWATERING	2	DCC#3A	-			
10	GRIT PUMP #2(17)	20	460-3	GRIT BLDG.	START STOP & P (5)	GRIT DEWATERING	2	DCC#3A	-			
11	BLOWER #1 (17)	10	460-3	GRIT BLDG.	START STOP & P	DCC#3A	1	DCC#3A	-			
12	BLOWER #2 (17)	10	460-3	GRIT BLDG.	START STOP & P	DCC#3A	1	DCC#3A	-			
13	CLASSIFIER (17)	1/2	460-3	GRIT BLDG.	START STOP & P (5)	GRIT DEWATERING	0	DCC#3A	-			
14	CLASSIFIER (17)	1/2	460-3	GRIT BLDG.	START STOP & P (5)	GRIT DEWATERING	0	DCC#3A	-			
15	GRIT HOPPER GATE	1	460-3	GRIT BLDG.	START STOP & P (7)	GRIT LOADING	0	DCC#3A	-			
16	GRIT HOPPER VIBRATOR	1/4	460-3	GRIT BLDG.	START STOP & P (7)	GRIT LOADING	0	DCC#3A	-			
17	OVERHEAD DOOR	1/3	120-1	GRIT BLDG.	BY MFR. (8)	GRIT LOADING	NONE	-	MS			
18	SUMP PUMP	1/2	208-1	GRIT BLDG.	FLOAT SW (6) (9)	AT PUMP	0	DCC#3A	30A-2P-NF			
19	SEWAGE PUMP #1(28)	50	460-3	PUMP BLDG.	BUBBLER (10) (29)	DCC#3	3(34)	DCC#3	-			
20	SEWAGE PUMP #2(28)	50	460-3	PUMP BLDG.	BUBBLER (29)	DCC#3	3(34)	DCC#3	-			
21	SEWAGE PUMP #3(28)	50	460-3	PUMP BLDG.	BUBBLER (29)	DCC#3	3(34)	DCC#3	-			
22	SEWAGE PUMP #4(28)	60	460-3	PUMP BLDG.	BUBBLER (29)	DCC#3	4(34)	DCC#3	-			
23	SLUDGE RECIRCULATING PUMP #1 (17)	5	460-3	DIGESTER BLDG.	STAT#	BLR. CONT. PANEL	BY MFR.	BLR. CONT. PANEL	-			
24	SLUDGE RECIRCULATING PUMP #2 (17)	5	460-3	DIGESTER BLDG.	STAT#	BLR. CONT. PANEL	BY MFR.	BLR. CONT. PANEL	-			
25	SUMP PUMP	1/2	208-1	DIGESTER BLDG.	FLOAT SW. (9) (14)	DIGESTER BLDG.	0	DCC #1C	-			
26	SLUDGE TRANSFER PUMP (17)	3	460-3	DIGESTER BLDG.	START STOP & P (31)	DIGESTER BLDG.	0	DCC #1C	-			
27	GAS COMPRESSOR (17)	3KW 7-1/2	460-3	DIGESTER TANK	BY MFR. (1)	AT UNIT	1	DCC #1C	2-30A-3P-NF			
28	BOILER RECIR. PUMP	3	460-3	DIGESTER BLDG.	BY MFR. (12) (14)	AT UNIT	0	BOILER RECIR. PANEL	-			
29	BOILER	-	120-1	DIGESTER BLDG.	BY MFR. (13) (14)	AT UNIT	-	-	TOGGLE SW.			
30	CHLORINE CONTACT SCRAPER DRIVE	1/2	460-3	CHLORINE TANK	START STOP & P (15)	DCC#1	0	DCC#1	30A-3P-NF (WP)			
31	CHLORINE CONTACT SCRAPER DRIVE	1/2	460-3	CHLORINE TANK	START STOP & P (15)	DCC#1	0	DCC#1	30A-3P-NF (WP)			
32	THICKENER DRIVE(17)	1	460-3	AERATION TANK	INTERLOCK WITH MTR #39 & 40	DCC#1	0	DCC#1	30A-3P-NF (WP)			
33	MIXER THICKENER(17)	1/3	120-1	AERATION TANK	INTERLOCK WITH MTR #32	DCC#1	0	DCC#1	MS			
34	RET. EXH. FAN E-1	1/3	120-1	RET. TUNNEL	MS&P (35)	RET. TUNNEL	NONE	-	TOGGLE SW			
35	UNIT HEATER	1/4	120-1	RET. TUNNEL	ELEC. STAT.#	RET. TUNNEL	NONE	-	MS			

REVIEWED AND APPROVED BY THE DIV. OF ENVIRONMENTAL PROTECTION, DEPT. NATURAL RESOURCES, IN ACCORDANCE WITH SEC. 144.03, WIS. STATS., SUBJECT TO THE CONDITIONS SET FORTH IN THE LETTER OF APPROVAL.

THOMAS G. FRANCOIS
ADMINISTRATOR

APPROVAL NO.
72 355

DATE: FEB 4 '74

DNR JAN 3 1974

MOTOR, APPLIANCE AND EQUIPMENT SCHEDULE									
NUMBER	EQUIPMENT	SIZE	VOLT & #	LOCA.	CONTROL	CONT. LOCA.	STARTER SIZE	STARTER LOCA.	DISC SIZE & TYPE
135	EXIST. MULTITHERN HTG. UNIT	1-1/2	460-3	DIGESTER BLDG.	EXIST. (22)	MCC	1	MCC	EXIST.
136	EXIST. EXHAUSTER	1	460-3	DIGESTER BLDG.	EXIST. (22)	MCC	1	MCC	EXIST.
137	EXIST. SEWAGE PUMP #1	15	460-3	PUMP STATION	EXIST. (26)	DCC#3	2	DCC#3	-
138	EXIST. SEWAGE PUMP #2	15	460-3	PUMP STATION	EXIST. (26)	DCC#3	2	DCC#3	-
139	EXIST. SEWAGE PUMP #3	15	460-3	PUMP STATION	EXIST. (26)	DCC#3	2	DCC#3	-
140	EXIST. SEWAGE PUMP #4	25	460-3	PUMP STATION	EXIST. (26)	DCC#3	2	DCC#3	-
141	EXIST. BARMINUTOR	1-1/2	460-3	BARMINUTOR BLDG.	EXIST. (27)	BARMIN-UTOR BLDG.	1	BARMINUTOR BLDG.	EXIST.
142	EXIST. SUMP PUMP	1/2	120-1	DIGESTER BLDG.	FLOAT SW. (22)	AT UNIT	NONE	-	-
143	EXIST. VACUUM PUMP	3/4	460-3	CONTROL BLDG.	EXIST. (22)	AT UNIT	1	AT UNIT	30A-3P-NF
144	EXHAUST FAN E-7	1/4	120-1	BLOWER BLDG.	M.S. AND P. (55)	DCC#2	NONE	-	TOGGLE SW.
145	BY PASS VALVE OPERATOR	1/4	460-3	BY PASS STRUCTURE	BUBBLER	DCC#3	0	DCC#3	30A-3P-NF
146	POLYMER FEEDER PUMP #2 (17)	1	460-3	BLOWER BLDG.	FLOW METER (19)	DCC#2	SEE INT. 72	DCC#2	-

* ALL STARTERS, DISCONNECT SWITCHES, REMOTE STOP START STATIONS AND HOA SHALL BE LABELED AS DESCRIBED UNDER "EQUIPMENT" COLUMN OF THE SCHEDULE. LABELING SHALL BE ENGRAVED LAMINATED PLASTIC AND ATTACHED WITH SCREWS.

- MOTOR NOTES**
- THE BRIDGE DRIVE SHALL BE CONTROLLED BY BUBBLER FOR BYPASS STRUCTURE. PROVIDE REMOTE HAND-OFF-AUTO SELECTOR SWITCH LOCATED AT GRIT BLDG. THE "OFF" POSITION OF SWITCH SHALL BE LABELED "WINTER" IN ADDITION TO "OFF". CONTROL WIRING AT BRIDGE IS TO BE SUPPLIED BY MFR. AND SHALL BE INSULATED FLEXIBLE ELECTRIC CABLE. BRIDGE DRIVE AND CONTROLS WILL BE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.
 - CONTROLS FOR RAISING AND LOWERING SLUDGE SCRAPING FLIGHTS ARE TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL MAKE ALL FIELD CONNECTIONS INCLUDING POWER AND CONTROL WIRING.
 - THE MOTOR SHALL HAVE "HAND-OFF-AUTO" SELECTOR SWITCH WITH "OFF" POSITION BE LABELED "WINTER" IN ADDITION TO OFF. INTERLOCK OF THE UNIT SHALL BE ACCOMPLISHED THROUGH CONTACTOR CONTROLLING MOTOR #1.
 - POWER AND CONTROL CABLE IS TO BE SUPPLIED BY THE BRIDGE MANUFACTURER. THIS CABLE SHALL CONTAIN 3 - #12 FOR BRIDGE DRIVE, MOIST DRUM AND REEL MOTOR.
 - START STOP STATIONS ARE TO BE REMOTELY LOCATED. SEE PLANS.
 - INSTALL REMOTE PILOT LIGHT AT CONTROL PANEL IN GRIT BUILDING.
 - CONTROL TO BE LOCATED AT TRUCK LEVEL AS SHOWN ON PLANS.
 - CONTROLS FOR DOOR ARE TO BE SUPPLIED BY MANUFACTURER BUT INSTALLED BY ELECTRICAL. ONE CONTROL WILL BE LOCATED OUTSIDE EASILY ACCESSIBLE TO TRUCK DRIVER AS SHOWN ON PLANS. VERIFY ROUGH IN BOX WITH DOOR MFR.
 - CONNECTION FROM SUMP PUMP MOTOR TO MOTOR DISCONNECT SWITCH SHALL BE SOLIDLY CONNECTED BY MEANS OF COMPRESSION FITTING ON CORD AT BOX. SEE DETAIL SHEET FOR LAYOUT.
 - REFER TO SPECIFICATION FOR CONTROL.
 - CONTROLS FOR COMPRESSOR AND HEATING EQUIPMENT ARE TO BE SUPPLIED AND INSTALLED AS AN INTEGRAL PART OF THE UNIT BY THE MANUFACTURER. INSTALL AND CONNECT TO REMOTE PILOT LIGHTS IN THE NEW CONTROL PANEL DCC#1C TO INDICATE OPERATION OF THE MOTOR, AND OPERATION OF THE HEATER.
 - CONTROLS FOR BOILER PUMP WILL BE SUPPLIED AS AN INTEGRAL PART OF THE BOILER BY THE MANUFACTURER. INTERLOCK THRU MOTOR NO. 23 AND 24 STARTERS, SO THAT IN THE "AUTO" POSITION, BOILER PUMP WILL NOT RUN UNTIL ONE OF THE TWO SLUDGE RECIRC. PUMPS IS OPERATING. INSTALL AND CONNECT TO REMOTE PILOT LIGHTS IN THE NEW DCC#1C TO INDICATE OPERATION OF BOILER PUMP, AND OPERATION OF BOILER.
 - MAKE POWER CONNECTION TO BOILER CONTROL PANEL, ALL OTHER WIRING AND CONTROLS FOR BOILER WILL BE BY OTHERS.
 - INSTALL REMOTE PILOT LIGHT AT CONTROL PANEL DCC#1C IN NEW DIGESTER BUILDING.
 - INSTALL RUNNING LIGHT AND SHEAR PIN ALARM AT DCC#1A IN MAIN CONTROL BUILDING.
 - PROVIDE STARTER WITH ONE OVERLOAD TO PROTECT 120 VOLT MOTOR. STARTER WILL NOT BE CONNECTED TO CONTROL CENTER BUS. SEE ONE LINE DIAGRAM OF DCC#2.
 - INSTALL RUNNING LIGHT AT DCC#1A FOR THIS MOTOR. PROVIDE N.O. AUX. CONTACT IN THIS STARTER FOR CONNECTION OF REMOTE RUNNING LIGHT WIRING.
 - IN BARMINUTOR BUILDING INSTALL TERMINAL BOX AND STARTER ADJACENT TO BARMINUTOR RACK AND MAKE CONNECTIONS TO MOTOR. STARTER AND TERMINAL BOX ARE TO BE FURNISHED BY MANUFACTURER AS SHALL BE EXPLOSION PROOF. INSTALL ELECTRICAL ASSEMBLY IN PUMP BUILDING WHERE SHOWN. ASSEMBLY WILL BE FURNISHED BY MFR. AND SHALL CONSIST OF PNEUMATIC TIME DELAY RELAY, "HAND-OFF-AUTO" SELECTOR SWITCH AND MULTITRODE. ELECTRICAL CONTRACTOR SHALL WIRE BETWEEN ASSEMBLY, STARTER, TERMINAL STRIP AND MOTOR AS SHOWN ON DRAWINGS.
 - REFER TO SPECIFICATIONS FOR CONTROL.
 - ELECTRICAL CONTRACTOR SHALL ALSO MAKE CONNECTION TO LIMIT SWITCH FOR SHEAR PIN ALARM.
 - PUMPS ARE TO BE REMOVED FROM MAIN CONTROL BUILDING AND INSTALLED IN BLOWER BUILDING. NEW STARTERS AND CONTROLS WILL BE REQUIRED AT BLOWER BUILDING AND SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR. THESE MOTORS ARE SHOWN IN BLOWER BUILDING AND SCHEDULED MOTOR #48 AND 49.
 - EXISTING MOTOR AND CONTROLLER SHALL REMAIN UNCHANGED.
 - THIS EXIST. PUMP IS TO BE CONTROLLED BY A TIMER. REFER TO SPEC. INSTALL A NEW SELECTOR SWITCH. HAVING ON-OFF-AUTO REMOTE 1, REMOTE 2, REMOTE 3 IN DCC#1.
 - THIS MOTOR IS TO BE REMOVED AND REPLACED BY MOTOR #41 OF THIS SCHEDULE.
 - THIS MOTOR SHALL REMAIN AS IS EXCEPT RUN 2, #14 FROM LIMIT SWITCH FROM LIMIT SWITCH TO DCC#1A FOR SHEAR PIN PILOT. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL LIMIT SWITCH.
 - THIS MOTOR IS TO BE REMOVED. ALL CONTROLS AND CONTROLLER WILL BE REMOVED FROM EXISTING DISTRIBUTION CONTROL CENTER #3. SEE PLAN AND SPECIFICATION.
 - THIS MOTOR IS TO BE REMOVED AND REPLACED WITH MOTOR #36 OF THIS SCHEDULE.
 - INSTALL RUNNING LIGHT AT DCC#1A FOR MOTOR. PROVIDE N.O. AUX. CONTACT IN STARTER FOR CONNECTION OF REMOTE RUNNING LIGHT WIRING. UTILIZE EXISTING WIRING IN EXISTING CONDUIT FROM EXISTING PUMP BUILDING TO DCC#1A IN THE MAIN CONTROL BUILDING.
 - THIS MOTOR IS TWO SPEED.
 - INSTALL MANUAL MOTOR DISCONNECT SWITCH INSIDE UNIT HOUSING.
 - INSTALL REMOTE START STOP STATION AT EXISTING BUILDING AS SHOWN ON PLAN.
 - MAKE CONNECTION TO SOLENOID FOR COOLING WATER AND LOW OIL LEVEL ALARM. VERIFY LOCATION OF STUB UPS TO BLOWER.
 - ELECTRICAL CONTRACTOR SHALL WIRE FRESH AIR AND RETURN AIR MOTORIZED DAMPERS TO CONTROLLER WALL MOUNTED AS SHOWN ON PLANS. CONTROLLER SHALL BE MOUNTED BY OTHERS.
 - THIS MOTOR IS VARIABLE SPEED.

ERICKSEN ELLISON AND ASSOC. INC.
ST. PAUL, MINNESOTA

MOTOR, APPLIANCE AND EQUIPMENT SCHEDULE									
NUMBER	EQUIPMENT	SIZE	VOLT & #	LOCA.	CONTROL	CONT. LOCA.	STARTER SIZE	STARTER LOCA.	DISC SIZE & TYPE
103	EXIST. CHLORINE INJECTOR #1	10	460-3	CONTROL BLDG.	EXIST. P. B. (24)	AT UNIT	EXIST.	DCC#1	-
104	EXIST. ELUENT PUMP (17)	5	460-3	CONTROL BLDG.	EXIST. P. B. (22)	AT UNIT	EXIST.	DCC#1	-
105	EXIST. EFFLUENT FLUSHING WATER PUMP (17)	15	460-3	CONTROL BLDG.	EXIST. P. B. (22)	AT UNIT	EXIST.	DCC#1	-
106	EXIST. UNIT HEATER #5	1/20	120-1	CONTROL BLDG.	EXIST. STAT (22)	SLUDGE FILTER ROOM	NONE	-	-
107	EXIST. UNIT HEATER #6	1/20	120-1	CONTROL BLDG.	EXIST. STAT (22)	SLUDGE FILTER ROOM	NONE	-	-
108	EXIST. UNIT HEATER #7	1/20	120-1	CONTROL BLDG.	EXIST. STAT (22)	SLUDGE FILTER ROOM	NONE	-	-
109	EXIST. UNIT HEATER #8	1/20	120-1	CONTROL BLDG.	EXIST. STAT (22)	SLUDGE FILTER ROOM	NONE	-	-
110	EXIST. UNIT HEATER #9	1/20	120-1	CONTROL BLDG.	EXIST. STAT (22)	SLUDGE FILTER ROOM	NONE	-	-
111	EXIST. FERRIC CHLORIDE MIXER	1/6	120-1	CONTROL BLDG.	EXIST. (22)	AT UNIT	NONE	-	-
112	EXIST. FERRIC CHLORIDE MIXER	1/6	120-1	CONTROL BLDG.	EXIST. (22)	AT UNIT	NONE	-	-
113	EXIST. FERRIC CHLORIDE PUMP #1	1/4	120-1	CONTROL BLDG.	EXIST. (22)	SLUDGE FILTER ROOM	NONE	-	M5
114	EXIST. FERRIC CHLORIDE PUMP #2	1/4	120-1	CONTROL BLDG.	EXIST. (22)	SLUDGE FILTER ROOM	NONE	-	M5
115	EXIST. CONVEYOR BELT MTR.	1/2	460-3	CONTROL BLDG.	EXIST. P. B. (22)	SLUDGE FILTER ROOM	EXIST.	DCC#1	-
116	EXIST. ROOF VENT	1/6	120-1	CONTROL BLDG.	EXIST. (22)	SLUDGE FILTER ROOM	NONE	-	-
117	EXIST. ROOF VENT	1/6	120-1	CONTROL BLDG.	EXIST. (22)	SLUDGE FILTER ROOM	NONE	-	-
118	EXIST. SLUDGE DE-WATERING UNIT #1	20	460-3	SLUDGE FILTER ROOM	EXIST. P. B. (22)	SLUDGE FILTER ROOM	EXIST.	DCC#1	EXIST.
119	EXIST. SLUDGE DE-WATERING UNIT #2	20	460-3	SLUDGE FILTER ROOM	EXIST. P. B. (22)	SLUDGE FILTER ROOM	EXIST.	DCC#1	EXIST.
120	EXIST. OFFICE EXH.	1/6	120-1	ROOF	EXIST. (22)	OFFICE	NONE	-	M5
121	EXIST. SLUDGE CONVEYOR LONG. #1	1/2	460-3	FINAL TANK	EXIST. (25)	AT UNIT	1	DCC#1	EXIST.
122	EXIST. SLUDGE CONVEYOR LONG. #2	1/2	460-3	FINAL TANK	EXIST. (25)	AT UNIT	1	DCC#1	EXIST.
123	EXIST. SLUDGE CONVEYOR LONG. #3	1/2	460-3	FINAL TANK	EXIST. (25)	AT UNIT	1	DCC#1	EXIST.
124	EXIST. SLUDGE CONVEYOR LONG. #4	1/2	460-3	FINAL TANK	EXIST. (25)	AT UNIT	1	DCC#1	EXIST.
125	EXIST. SLUDGE CROSS COLLECTOR #1	1/2	460-3	FINAL TANK	EXIST. (25)	AT UNIT	1	DCC#1	EXIST.
126	EXIST. SLUDGE CROSS COLLECTOR #2	1/2	460-3	FINAL TANK	EXIST. (25)	AT UNIT	1	DCC#1	EXIST.
127	EXIST. ELUTRIATION TANK DRIVE (17)	1/2	460-3	ELUTRIATION TANK	EXIST. (22)	AT UNIT	1	DCC#1	EXIST.
128	EXIST. SLUDGE (17) TRANSFER PUMP #1	3	460-3	DIGESTER BLDG.	EXIST. (22)	AT UNIT	1	MCC	-
129	EXIST. SLUDGE (17) TRANSFER PUMP #2	3	460-3	DIGESTER BLDG.	EXIST. (22)	AT UNIT	1	MCC	-
130	EXIST. PRIMARY (17) RECIRCULATION PUMP	3	460-3	DIGESTER BLDG.	EXIST. (22)	MCC	1	MCC	-
131	EXIST. SECONDARY (17) RECIRCULATION PUMP	3	460-3	DIGESTER BLDG.	EXIST. (22)	MCC	1	MCC	-
132	EXIST. HOT WATER CIRCULATOR	1-1/2	460-3	DIGESTER BLDG.	INTERLOCK WITH MOTOR # 135	MCC	1	MCC	-
133	EXIST. GAS COMPRESSOR (17)	7-1/2	460-3	DIGESTER BLDG.	EXIST. (22)	MCC	1	MCC	EXIST.
134	EXIST. DIGESTER HTG. FAN	1-1/2	460-3	DIGESTER BLDG.	EXIST. (22)	MCC	1	MCC	EXIST.

MOTOR NOTES CONT.

- MAKE CONNECTION TO MOTORIZED DAMPER AS SHOWN ON THESE PLANS.

- GENERAL NOTES:**
- CIRCUIT NUMBERS SHOWN ON THESE DRAWINGS SHALL NOT NECESSARILY CORRESPOND TO ACTUAL CIRCUIT BREAKER NUMBERS.
 - VERIFY LOCATION OF ALL MOTORS WITH MECHANICAL PLANS BEFORE ROUGH-IN.
 - ADJUST MOUNTING HEIGHTS OF ALL OUTLETS IF REQUIRED SO AS NOT TO INTERFERE WITH MECHANICAL EQUIPMENT. VERIFY CHANGES WITH ENGINEER.
 - VERIFY TYPE OF CEILING CONSTRUCTION FOR PROPER MOUNTING OF ALL LIGHT FIXTURES.
 - INTERRUPTING RATINGS NOTED IN SCHEDULES SHALL APPLY TO ENTIRE PANELBOARD AND/OR SWITCHBOARD. ALL EQUIPMENT COMPRISING PANELS AND/OR SWITCHBOARDS SHALL EITHER BE RATED FOR SHORT CIRCUIT CURRENT NOTED OR BE SUITABLY PROTECTED FOR THE AVAILABLE SHORT CIRCUIT CURRENT.
 - LETTER THUS: "A" - INDICATES TYPE OF LIGHTING FIXTURES. REFER TO LIGHTING FIXTURE TYPES IN SPECIFICATIONS.
 - VERIFY LOCATION OF ALL FLOOR OUTLETS WITH ENGINEER PRIOR TO ROUGH-IN.
 - ALL EXTERIOR JUNCTION BOXES SHALL BE WEATHERPROOF AND CAST BOXES.
 - FIELD VERIFY LOCATIONS FOR ALL ROUGH-INS TO EQUIPMENT.
 - CONDUITS SHOWN ON THESE PLANS AS EXISTING HAVE BEEN TAKEN FROM EXISTING PLANS AND MAY NOT HAVE BEEN INSTALLED AS ORIGINALLY SHOWN. THE CONTRACTOR SHALL MAKE ALL ADJUSTMENTS NECESSARY TO ACCOMMODATE ANY DIFFERENCES BETWEEN ACTUAL FIELD CONDITIONS AND THOSE CONDITIONS SHOWN AS EXISTING.
 - WHERE CONDUITS ARE NOT SHOWN CONNECTED TO EXISTING OUTLETS, FIELD INFORMATION IS NOT AVAILABLE FOR DETERMINING THE ACTUAL LOCATION OF THESE EXISTING CONDUITS. THE CONTRACTOR SHALL INSTALL NEW WIRING TO THE EXISTING OUTLETS SHOWN. WHERE SUITABLE, EXISTING CONDUIT MAY BE USED. WHERE NOT SUITABLE, NEW CONDUIT SHALL BE PROVIDED.

ELECTRICAL SYMBOLS

⊙ CEILING OUTLET	⊙ SPEAKER OUTLET
⊙ OUTLET FOR OR CONNECTION TO A RECESSED LIGHTING FIXTURE	⊙ SOUND OR INTERCOM SYSTEM 'CALL BACK' SWITCH
⊙ WALL OUTLET	⊙ TELEPHONE OUTLET
⊙ JUNCTION BOX	⊙ INTERCOMMUNICATION STATION OUTLET
⊙ CLOCK OUTLET	⊙ MICROPHONE OUTLET
⊙ NIGHT LIGHT	⊙ PROJECTOR OUTLET
⊙ SINGLE CONVENIENCE RECEPTACLE-NEMA 5-15R	⊙ TELEVISION OUTLET
⊙ DUPLEX CONVENIENCE RECEPTACLE-NEMA 5-15R	⊙ TERMINAL CABINET
⊙ COMBINATION 15A, 120V-220V RECEPTACLE GROUND-NEMA 5-15R + 6-15R	⊙ ANNUNCIATOR
⊙ DUPLEX CONVENIENCE RECEPTACLE UPPER-HALF SWITCHED-NEMA 5-15R	⊙ BRANCH CIRCUIT PANEL
⊙ RANGE RECEPTACLE 50A, 3P + G, 4W, NEMA 14-50R	⊙ MOTOR (NO. REFERS TO SCHEDULE)
⊙ SWITCH & CONVENIENCE OUTLET IN SAME PLATE	⊙ EQUIPMENT OR APPLIANCE (NO. REFERS TO SCH)
⊙ FLOOR OUTLET	⊙ MAGNETIC MOTOR STARTER
⊙ SINGLE POLE SWITCH	⊙ DISCONNECT SWITCH
⊙ DOUBLE POLE SWITCH	⊙ DISCONNECT SWITCH & MAGNETIC MOTOR STARTER IN SAME LOCATION
⊙ 3-WAY SWITCH	⊙ MANUAL MOTOR STARTING SWITCH
⊙ 4-WAY SWITCH	⊙ MANUAL MOTOR CONTROL STATION
⊙ DOOR SWITCH	⊙ MANUAL MOTOR CONTROL STATION WITH PILOT
⊙ KEY SWITCH	⊙ THERMOSTAT
⊙ SWITCH & PILOT	⊙ EXIT LIGHT
⊙ DIMMER OR DIMMER CONTROL	⊙ AUXILIARY EQUIPMENT (AS NOTED)
⊙ PUSH BUTTON	⊙ AUXILIARY SYSTEM CIRCUITS
⊙ BUZZER	⊙ BRANCH CIRCUIT (CEILING OR WALL)
⊙ BELL	⊙ BRANCH CIRCUIT (FLOOR)
⊙ TRANSFORMER	⊙ HOME RUNS TO CAB-ARROWS INDICATE NO. OF CIRCUITS
⊙ FIRE ALARM STATION	⊙ EXISTING CONDUIT
⊙ FIRE ALARM HORN	⊙ EXISTING CONDUIT, CONDUCTORS REMOVED
⊙ FIRE ALARM BELL	⊙ PLASTER-OUTLET SPACING AS SHOWN OR SPEC.
⊙ FIRE ALARM-DOOR HOLDER	NOTE: ANY CIRCUIT WITHOUT FURTHER DESIGNATION IS A TWO-WIRE CIRCUIT. A GREATER NUMBER OF WIRES ARE INDICATED BY CROSS MARKS.
⊙ AUTOMATIC FIRE ALARM STATION	ANY SYMBOL MAY BE FURTHER DESIGNATED BY ONE OR MORE OF THE FOLLOWING SUBSCRIPTS:
⊙ SMOKE DETECTOR	PS OUTLET WITH PULL SWITCH
⊙ CHIME	WP WEATHERPROOF OUTLET
⊙ INDICATES NOTE ON PLAN	EXISTING OUTLET (DOES NOT APPLY TO EQUIPMENT OR DEVICE)
	XC EXIST. OUTLET TO BE REMOVED OR COVERED WITH BLANK COVER (DOES NOT APPLY TO EQUIPMENT OR DEVICE)
	A LETTER INDICATES FIXTURE TYPE
	Z NUMBER INDICATES CIRCUIT NUMBER

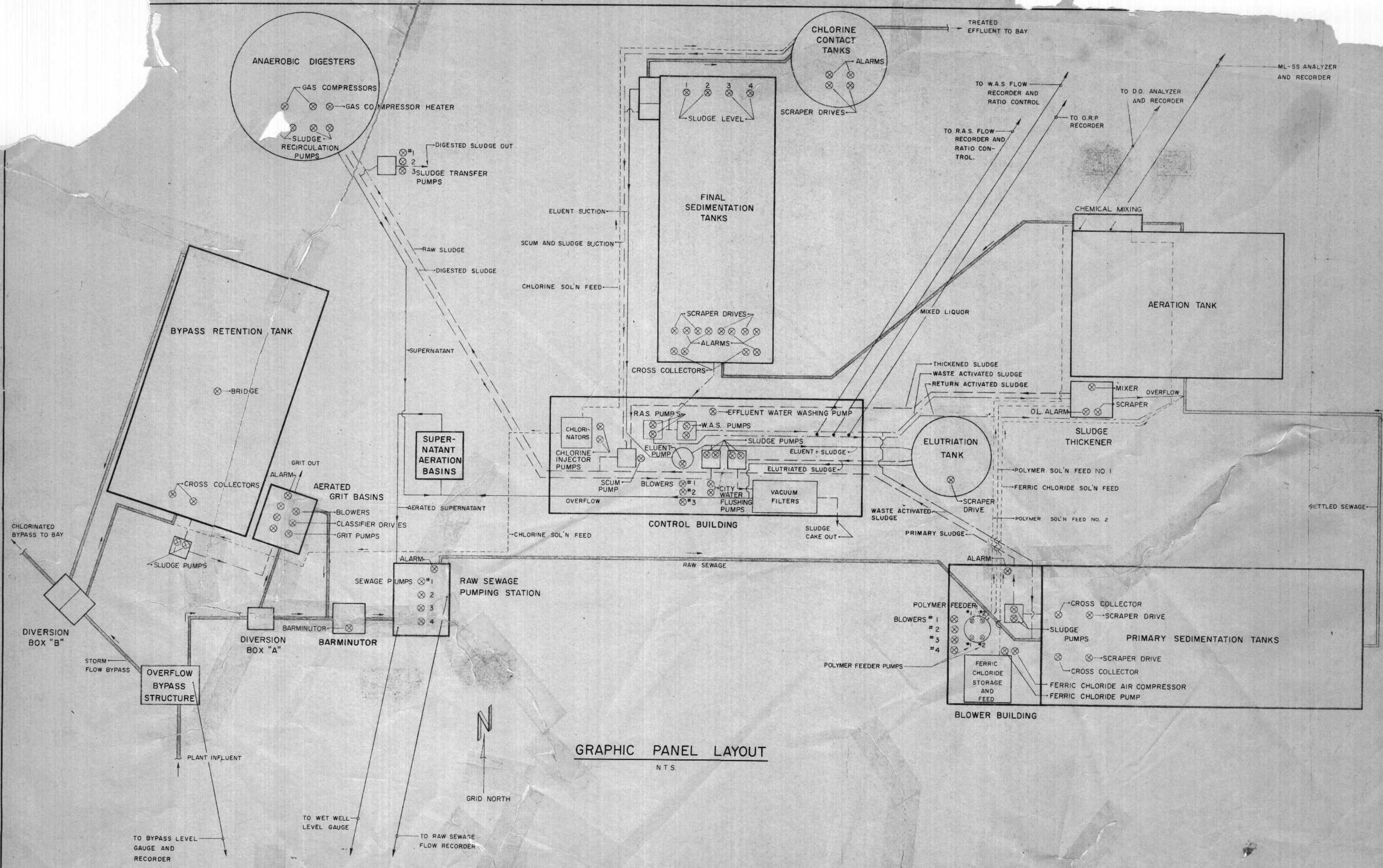
REVIEWED AND APPROVED BY THE DIV. OF ENVIRONMENTAL PROTECTION, DEPT. NATURAL RESOURCES, IN ACCORDANCE WITH SEC. 144.01, WIS. STATS., SUBJECT TO THE CONDITIONS SET FORTH IN THE LETTER OF APPROVAL.

THOMAS G. FRANGOS
ADMINISTRATOR

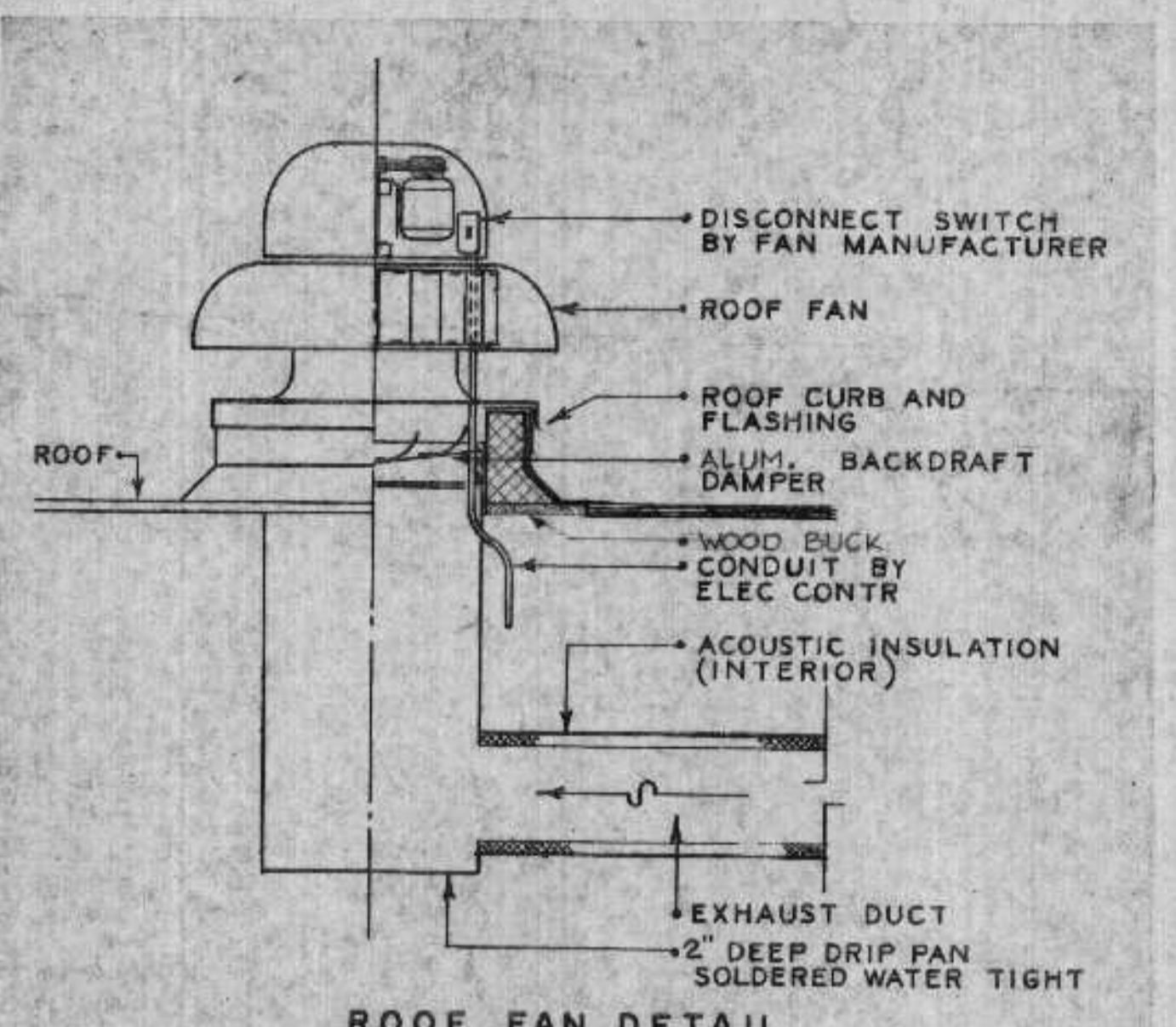
APPROVAL NO.
72 355

DATE: FEB 1 1978

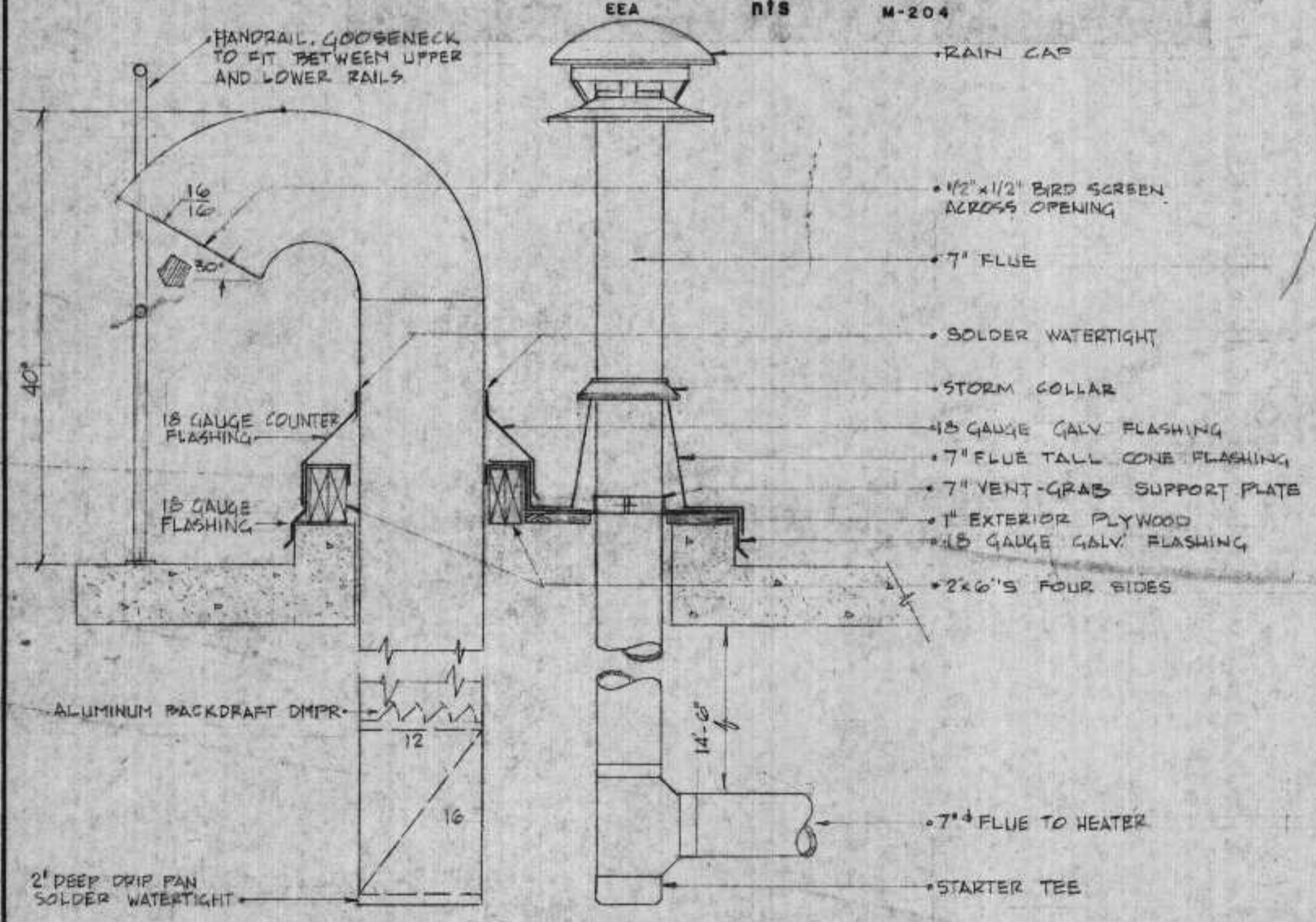
DNR JAN 3 1978



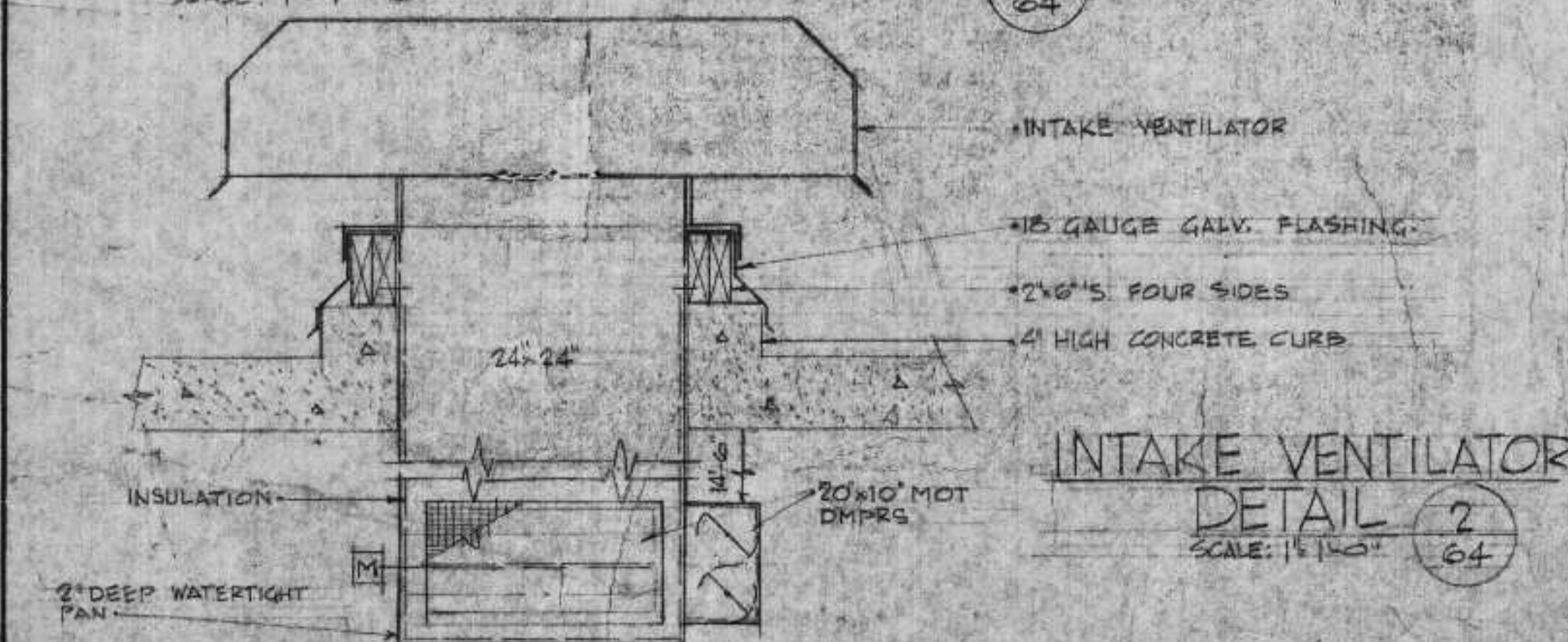
GRAPHIC PANEL LAYOUT
N.T.S.



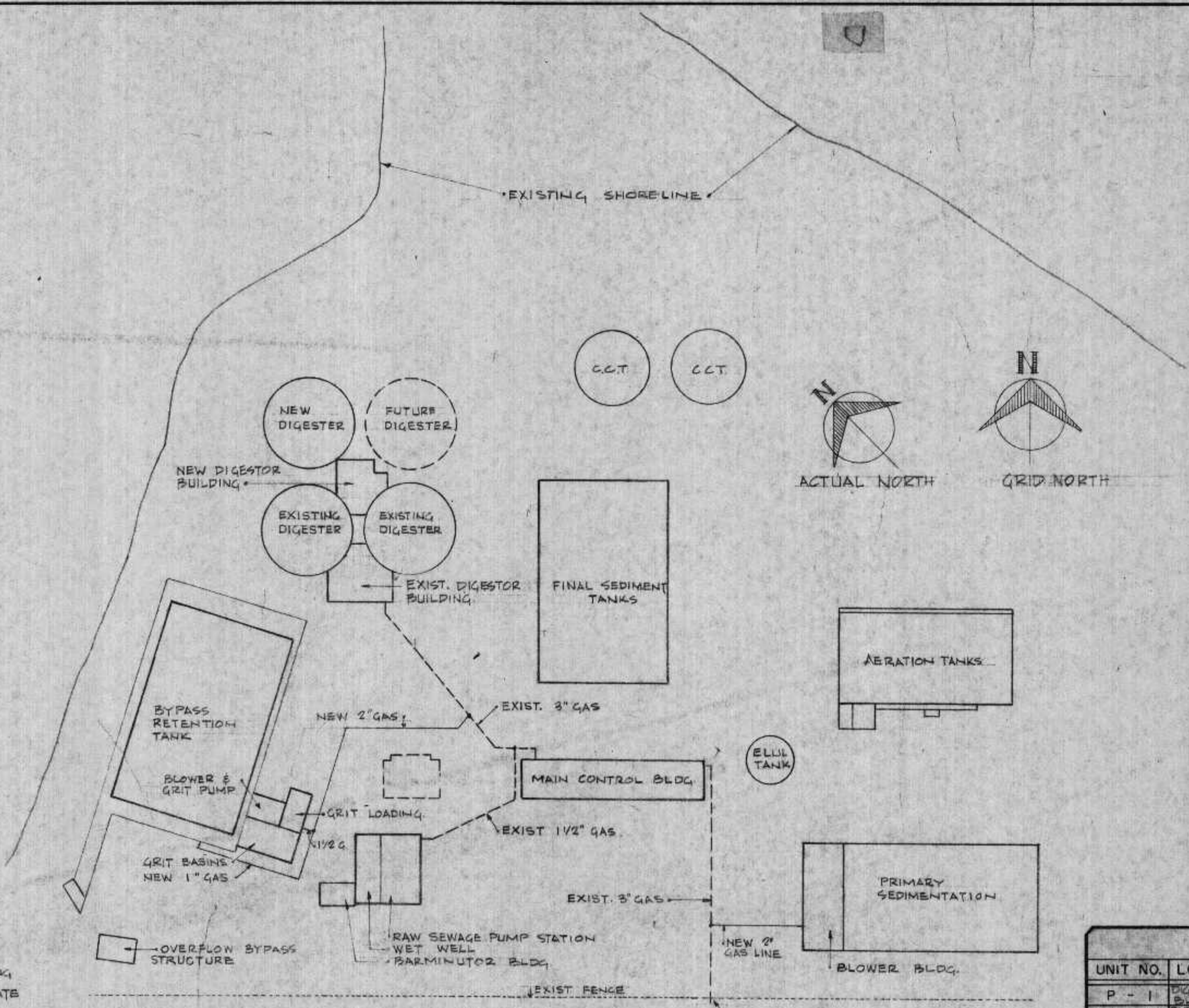
ROOF FAN DETAIL



GOOSENECK & FLUE DETAIL



INTAKE VENTILATOR DETAIL



GAS PIPING PLAN
SCALE: 1"=50'-0"

SUPPLY AIR UNIT SCHEDULE				
UNIT NO.	S-1	S-2	S-3	S-4
SERVICE	DIGEST BLDG			
MANUFACTURER	TRANE			
MODEL	#10 C.C.			
STYLE	HORIZON			
FRESH AIR (%)	30			
CFM	5000			
OV (FPM)	1490			
SP "H ₂ O (TOTAL)	1/4"			
SP "H ₂ O (EXTERNAL)				
HORSEPOWER	3			
RPM (FAN)	690			
HEATING COIL:				
QUANTITY	1-20x45			
TYPE	HOT WATER			
FV (FPM)	520			
ENT AIR TEMP °F	40°F			
LVG AIR TEMP °F	90°F			
GPM	27			
COOLING COIL:				
QUANTITY				
TYPE				
FV (FPM)				
ENT AIR TEMP °F WB/DB				
LVG AIR TEMP °F WB/DB				
FACE & BYPASS	EXTERNAL			
FILTERS:				
TYPE	MED CAP			
PERMANENT				
SIZE	6'-16"x25'			
FV (FPM)	350			
VIBRATION ISOLATOR	4"-1" DEFL.			
NOTES:				

PUMP SCHEDULE										
UNIT NO.	LOC	SERVICE	MFR	SERIES	MODEL	GPM	FT. HD.	HP	RPM	REMARKS
P-1	DIGEST BLDG	HOT COIL UNIT	BEG	60	1/2AA	27	20	1/3	1750	
P-2	BLOWER BLDG	FERRIC CHLORIDE STORAGE TANK	BEG	40	1AA	12	20	1/4	1750	
P-3	BLOWER BLDG	FERRIC CHLORIDE HEATER TANK	BEG	IN LINE	2'	3	10	1/8	1750	
P-4	BLOWER BLDG	UNIT HEATERS	BEG	60	2A	80	39	1/2	1750	
P-5										
P-6										
P-7										
P-8										
P-9										
P-10										
NOTES:										

EXHAUST FAN SCHEDULE										
FAN	SERVICE	MFR	MODEL	TYPE	DRIVE	CFM	"SP	FAN RPM	HP	REMARKS
E-1	RETENTION TANK TUNNEL	TRANE	15B1	UTILITY	BELT	1800	1/4	930	1/3	POUR CONCRETE CURB
E-2	GRIT DRAINAGE	COOK	24A1B	PROP	BELT	2000	1/3		1/3	
E-3	GRIT PUMP RM	COOK	15CP2B	RAW	BELT	700	1/3	625	1/20	VCG CURB
E-4	DIGEST BLDG	TRANE	15B1	UTILITY	BELT	1500	1/4	850	1/3	
E-5	BLOWER BLDG	COOK	24C3B	PRV	BELT	2400	1/4	550	1/4	VCG CURB
E-6	BLOWER BLDG	COOK	18A1D	PROP	DIRECT	1000	1/3	1140	1/3	
E-7	BLOWER BLDG	COOK	24C3B	PRV	BELT	2400	1/4	550	1/4	VCG CURB
E-8	RETENTION TANK TUNNEL	COOK	INTAKE TYPE V2	24x24	THREAT	1600				POUR CONCRETE CURB
E-9	BLOWER BLDG	COOK	INTAKE TYPE V2	30x24	THREAT	3400				VCG CURB
E-10	GRIT BLDG	COOK	INTAKE TYPE V2	30x18	THREAT	2700				VCG CURB
E-11	DIGESTOR BLDG	COOK	VCG-22							CURB FOR GOOSENECK
E-12	BLOWER BLDG	COOK	VCG-22							CURB FOR ROILER BLUE STACK
NOTES:										

UNIT HEATER SCHEDULE										
UNIT NO.	LOC	TYPE	MODEL	HP	RPM	CFM	#/HR	GPM	MBH	
UH-1	PUMP TUNNEL	GAS	B-160X	1/4	580	1970			128	
UH-2	GRIT PUMP RM	GAS	F-160	1/3		1090			128	
UH-3	GRIT UPPER BLDG	GAS	F-160	1/3		1090			128	
UH-4	GRIT LOWER BLDG	GAS	F-50	1/40		530			48	
UH-5	GRIT LOWER BLDG	GAS	B-250X	1/2	580	2850			200	
UH-6	BLOWER BLDG	HOT WATER	343-5	1/6	1150	1875		16	100	
UH-7	BLOWER BLDG	HOT WATER	343-5	1/6	1150	1875		16	100	
UH-8	BLOWER BLDG	HOT WATER	343-5	1/6	1150	1875		16	100	
UH-9	BLOWER BLDG	HOT WATER	343-5	1/6	1150	1875		16	100	
UH-10	BLOWER BLDG	HOT WATER	343-5	1/6	1150	1875		16	100	
NOTES:										

ERIKSEN ELLISON AND ASSOC. INC.
ST. PAUL, MINNESOTA

BONESTROD, ROSENE, ANDERLIK & ASSOC. INC.
ST. PAUL, MINNESOTA

SUPERIOR, WISCONSIN
DATE: FEBRUARY 2, 1971

HEATING AND VENTILATION

REVIEWED AND APPROVED BY THE DIV. OF ENVIRONMENTAL PROTECTION, DEPT. NATURAL RESOURCES, IN ACCORDANCE WITH SECTION 14.01, CHAPTER 103, STATUTES, SUBJECT TO THE CONDITIONS SET FORTH IN THE LETTER OF APPROVAL.
THOMAS G. FRANGOS
ADMINISTRATOR

APPROVAL NO.
72 355

DATE: FEB 4 '74

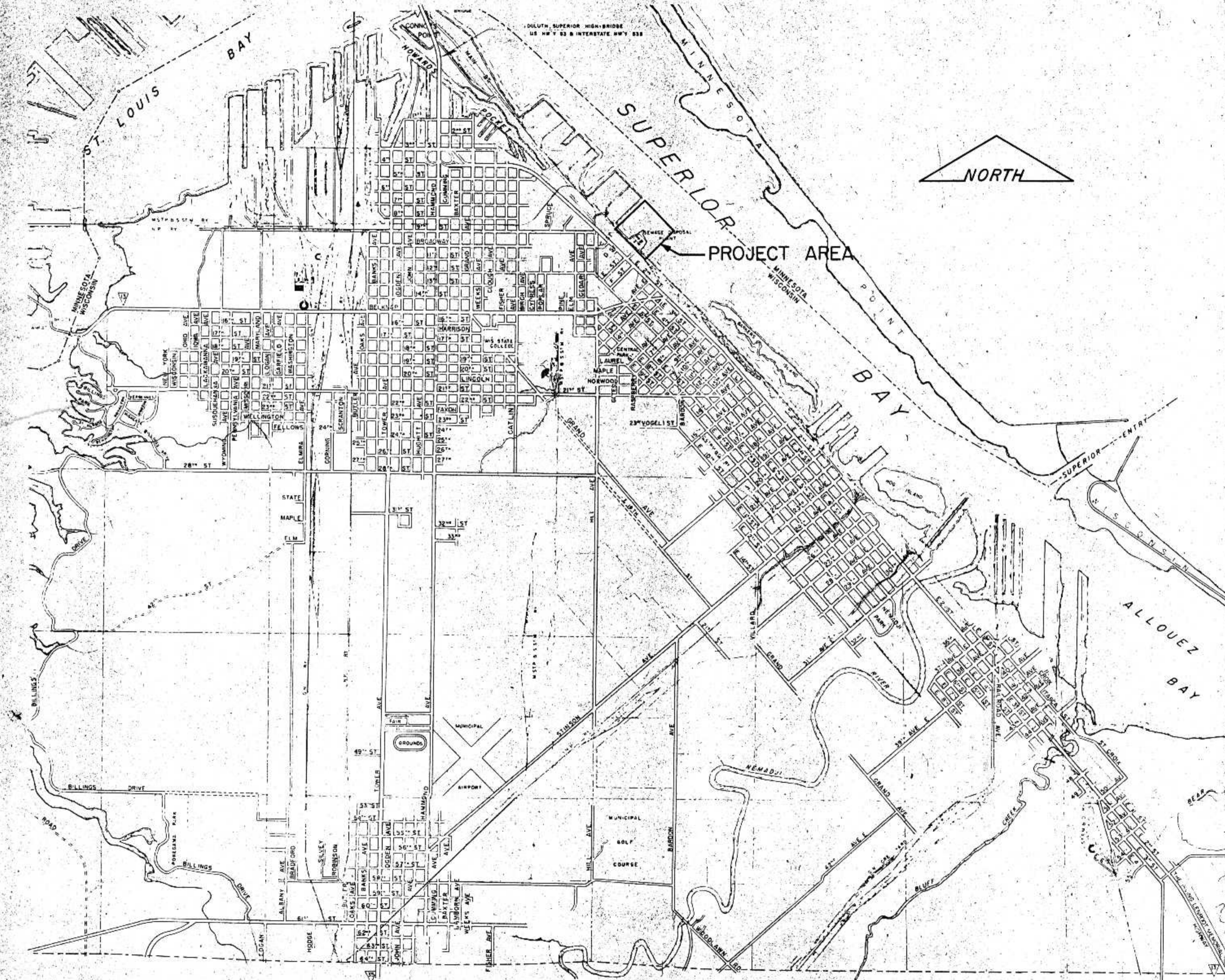
DNR JAN 3 1974

SURVEY	REVISIONS
DRAWN	
DESIGN	
APPROVED	

DNR JUL 14 1975

SUPERIOR, WISCONSIN

COMBINED SEWER OVERFLOW TREATMENT PLANT - DISTRICT 2 1975



REVIEWED AND APPROVED BY THE
 DIV. OF ENVIRONMENTAL STANDARDS,
 ARDS, DEPT. NATURAL RESOURCES
 IN ACCORDANCE WITH SEC. 144.04,
 WIS. STAT., SUBJECT TO THE CON-
 DITIONS SET FORTH IN THE LETTER
 OF APPROVAL.

OLIVER B. WILLIAMS
 ACTING ADMINISTRATOR

APPROVAL NO. *[Signature]*
 75 822

OCT 10 '75

CITY COUNCIL

- BRUCE C. HAGEN MAYOR
- THOMAS P. STROOZAS, JR. COUNCILMAN
- THOMAS G. HIGGINS COUNCILMAN
- CARL DAHLIN COUNCILMAN
- HERBERT C. WALLIN COUNCILMAN
- LOWELL W. BANKS COUNCILMAN
- PATRICIA PAQUETTE COUNCILWOMAN
- THOMAS J. GODFREY COUNCILMAN
- JAMES McHUGH COUNCILMAN
- JAMES E. JOHNSON COUNCILMAN
- REGINA HILL COUNCILWOMAN
- WILLIAM A. HAMMANN CITY ATTORNEY
- FRED M. SEGUIN PUBLIC WORKS DIRECTOR
- GEORGE HOWELL CITY PLANNER

LOCATION PLAN

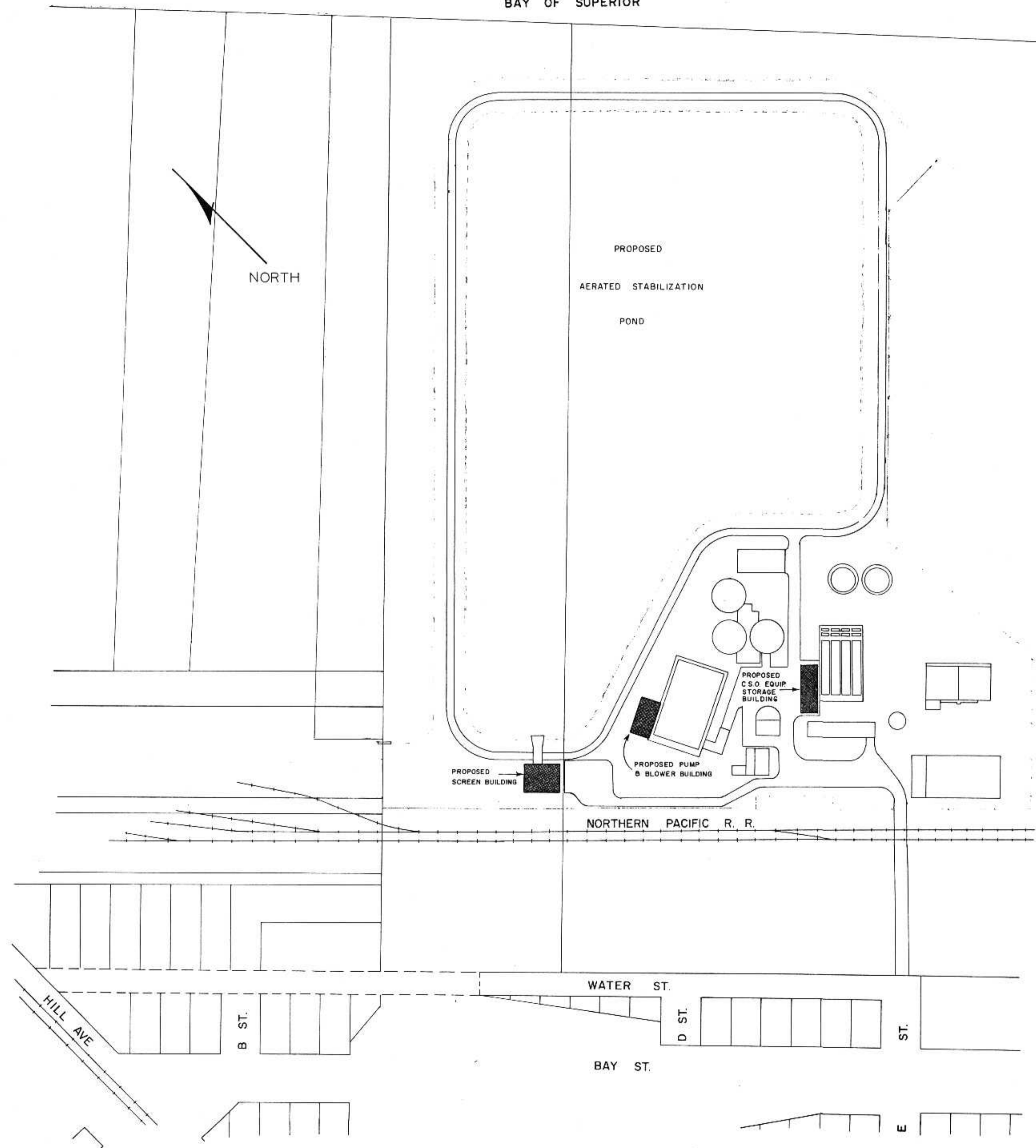
Scale: 1"=2,000'

COMBINED SEWER
 OVERFLOW PLANT
 DISTRICT 2

1975

DNE 11 15

BAY OF SUPERIOR



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50. ELECTRICAL UNDERGROUND SCHEMATIC
51. ELECTRICAL DETAILS
52. ELECTRICAL SCHEDULES
53. GRAPHIC PANELS

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.
DATE: JUNE 14, 1975 REG. NO. E06599

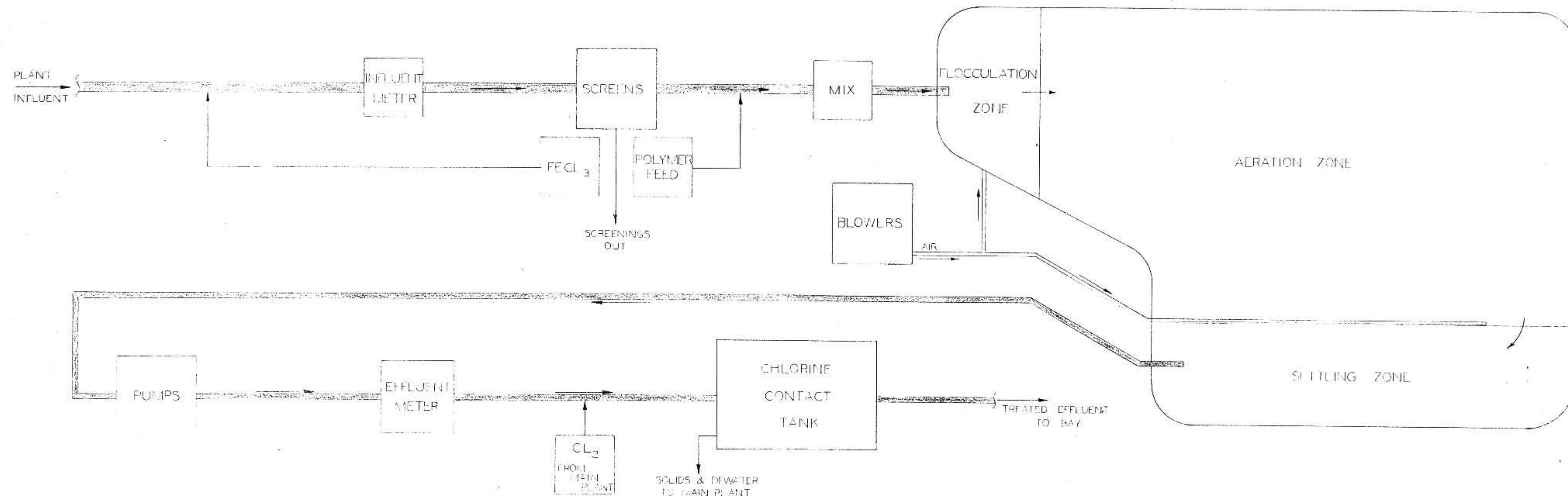
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GR	DCB	RE	RE	RE	RE	RE	RE

BONESTROO, ROSENE, ANDERLIK & ASSOC., INC.
ST. PAUL, MINNESOTA

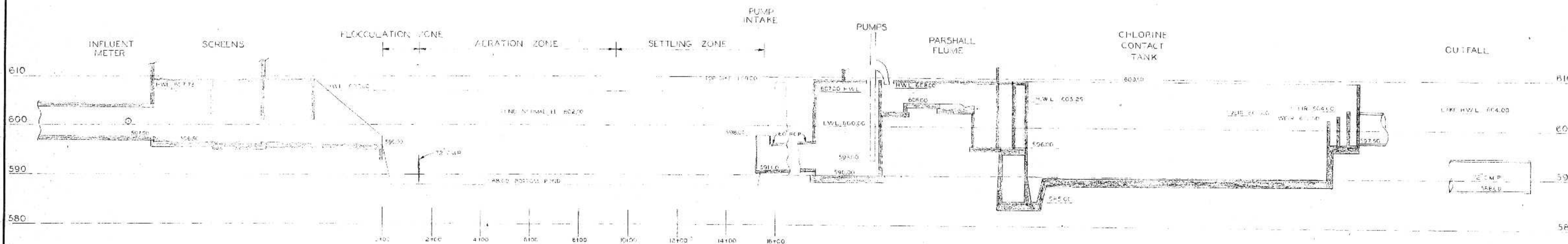
SUPERIOR, WISCONSIN
DATE: JUNE 14, 1975 COMM 6888 F

C.S.O. PLANT - DISTRICT 2
INDEX SHEET

SHEET
27
53



FLOW DIAGRAM
NO SCALE



HYDRAULIC PROFILE
HORIZ. 1" = 20'
VERT. 1" = 10'
(UNLESS NOTED OTHERWISE)

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.
DATE: JUNE 14, 1975 REG. NO. E06599

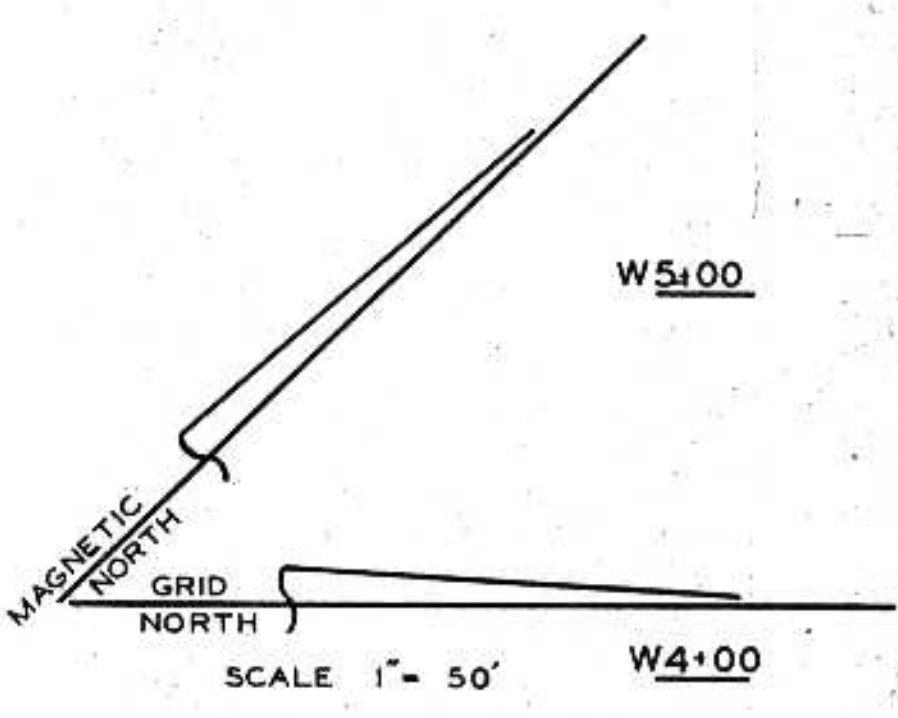
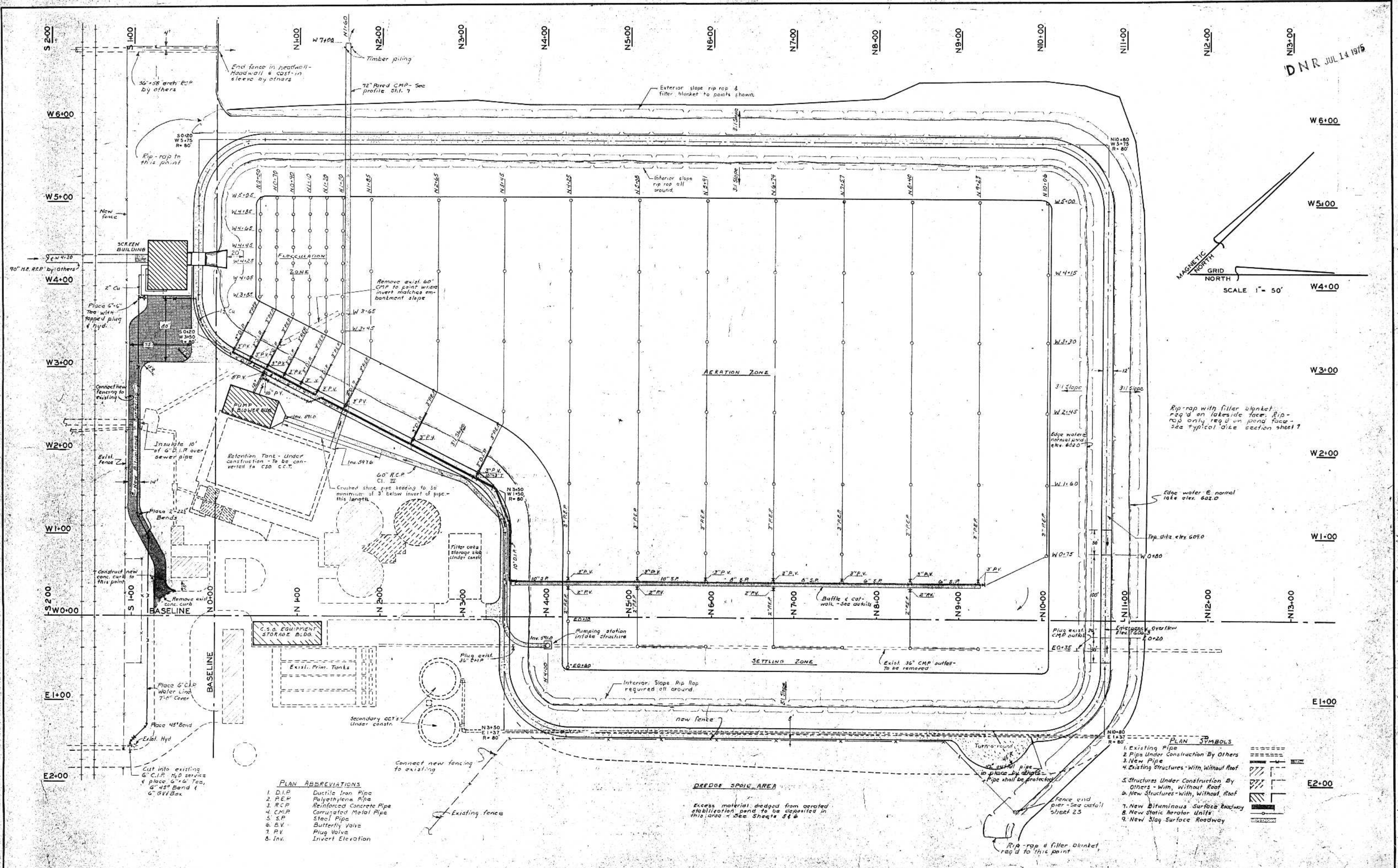
REVISIONS	
SURVEY	CHC
DRAWN	CHC
DESIGN	RET
APPROVED	RET

BONESTROO, ROSENE, ANDERLIK & ASSOC., INC.
ST. PAUL, MINNESOTA

SUPERIOR, WISCONSIN
DATE: JAN 3, 1975 COMM 6888 F

C. S. O. PLANT - DISTRICT 2
FLOW DIAGRAM & HYDRAULIC PROFILE

DNR JUL 14 1975



Rip-rap with filler blanket req'd on lakeside face. Rip-rap only req'd on pond face - see typical dice section sheet 7

Edge water @ normal lake elev. 602.0

Top dia. elev. 609.0

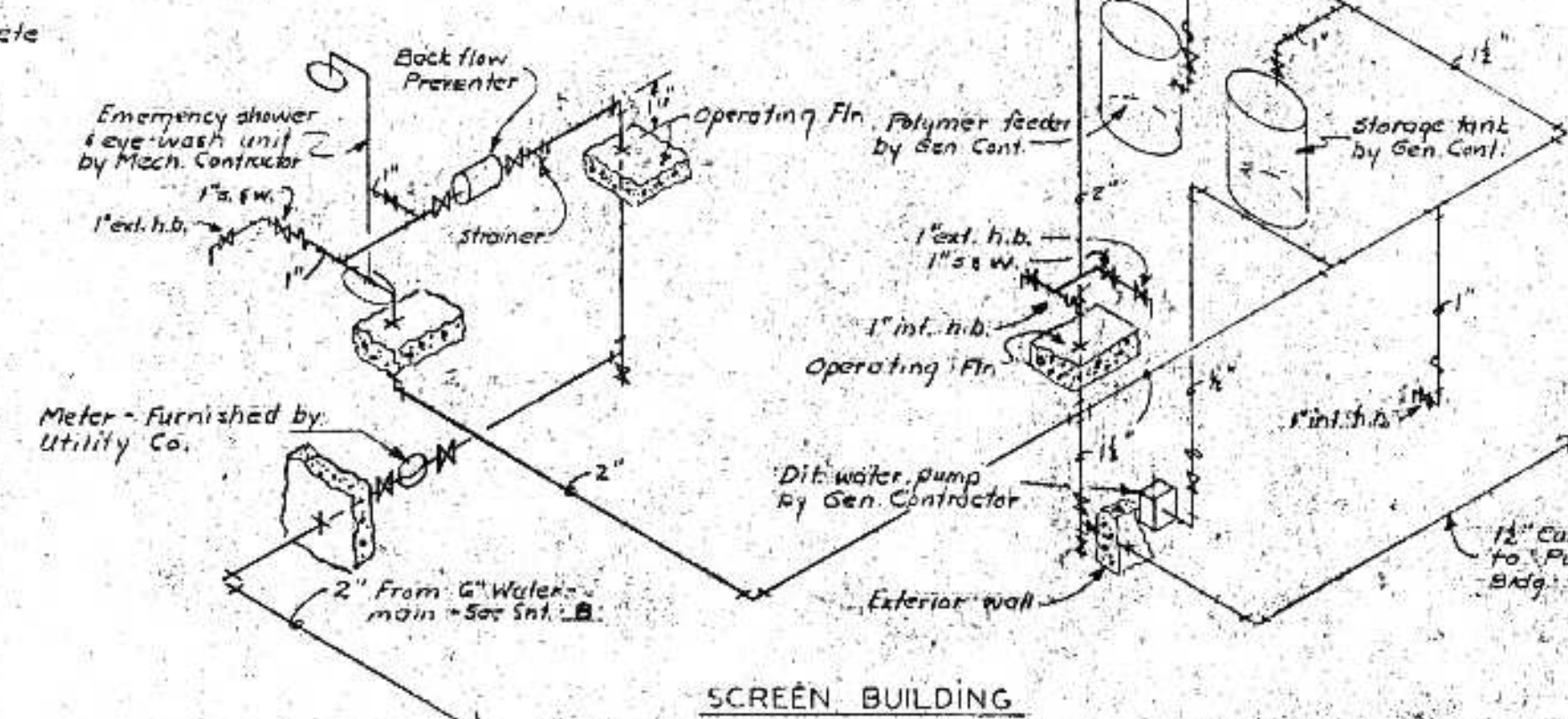
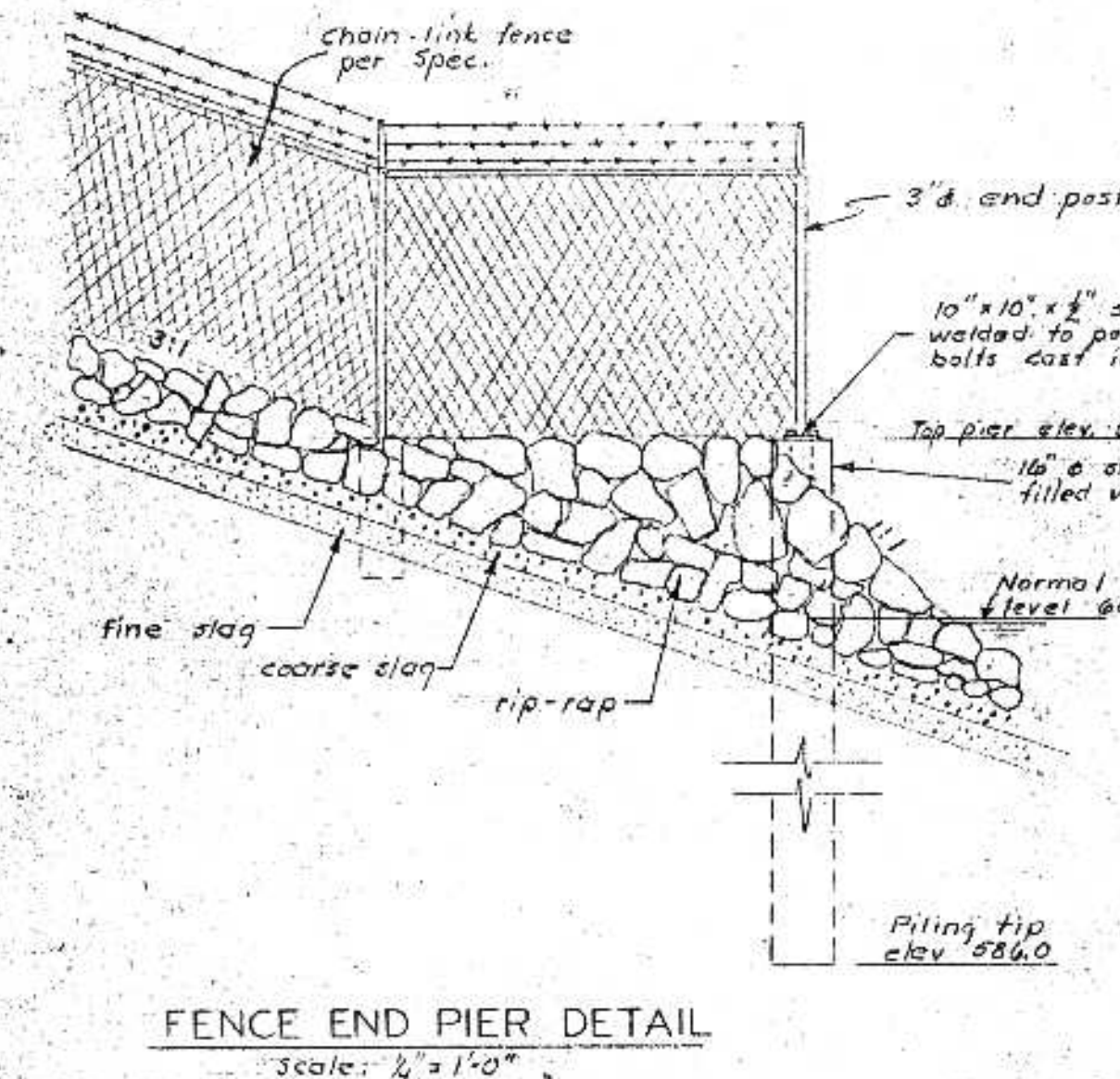
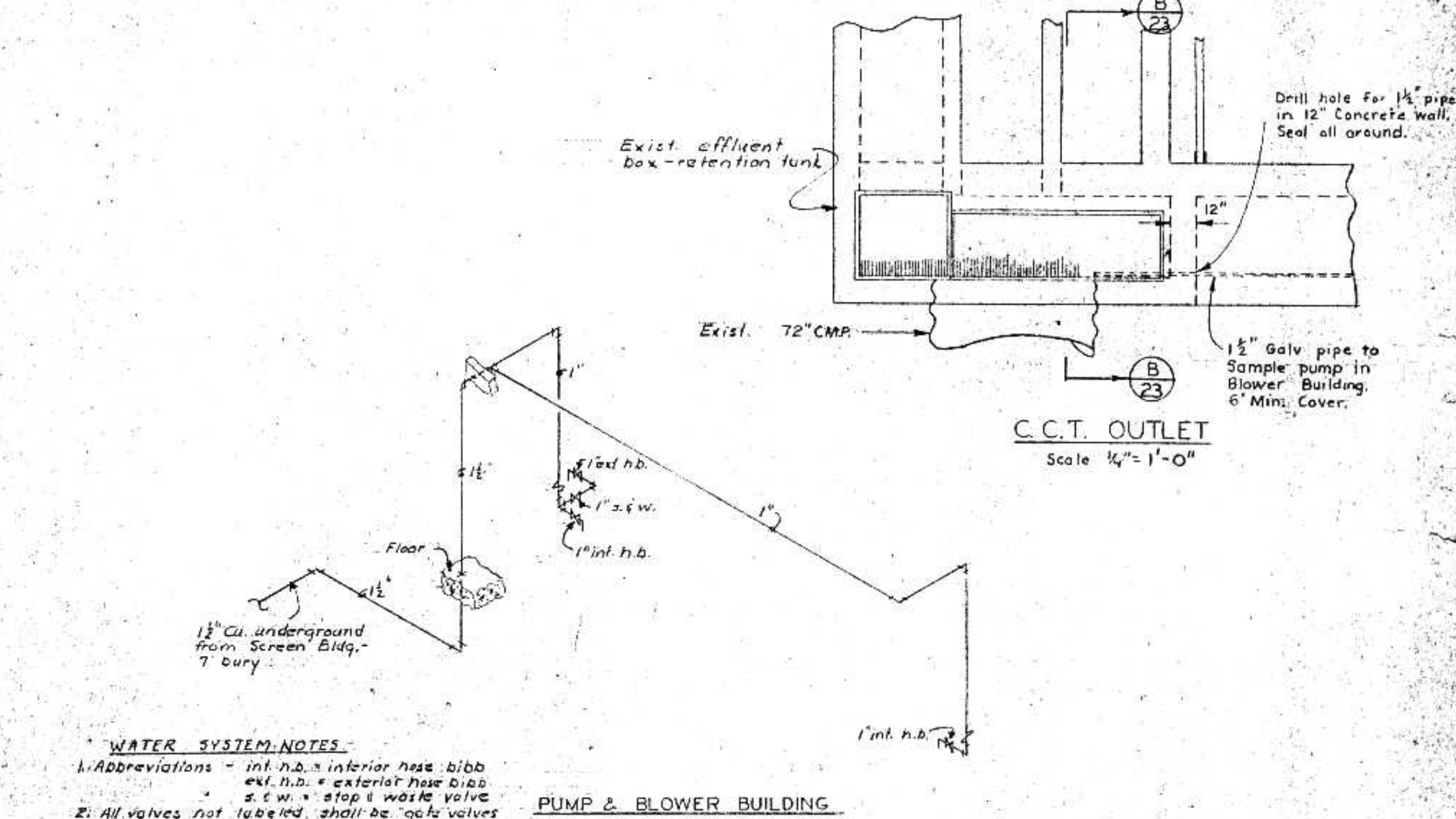
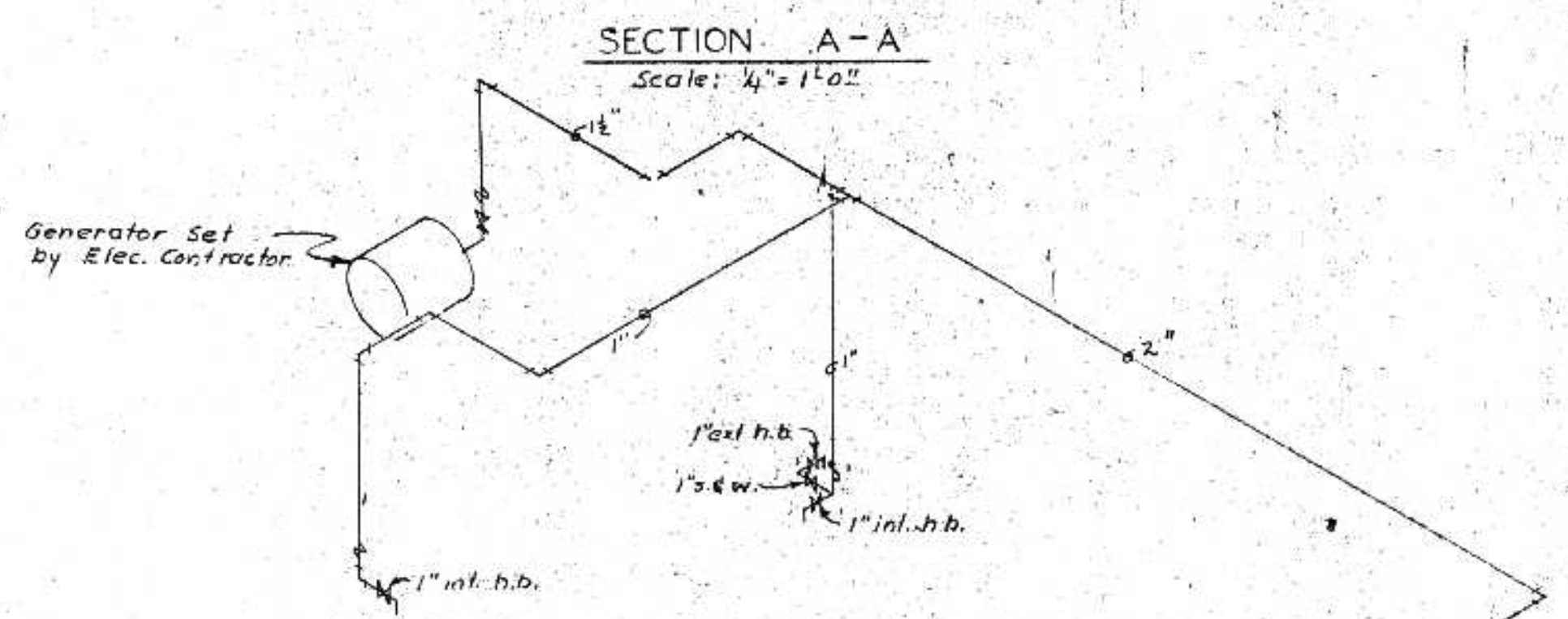
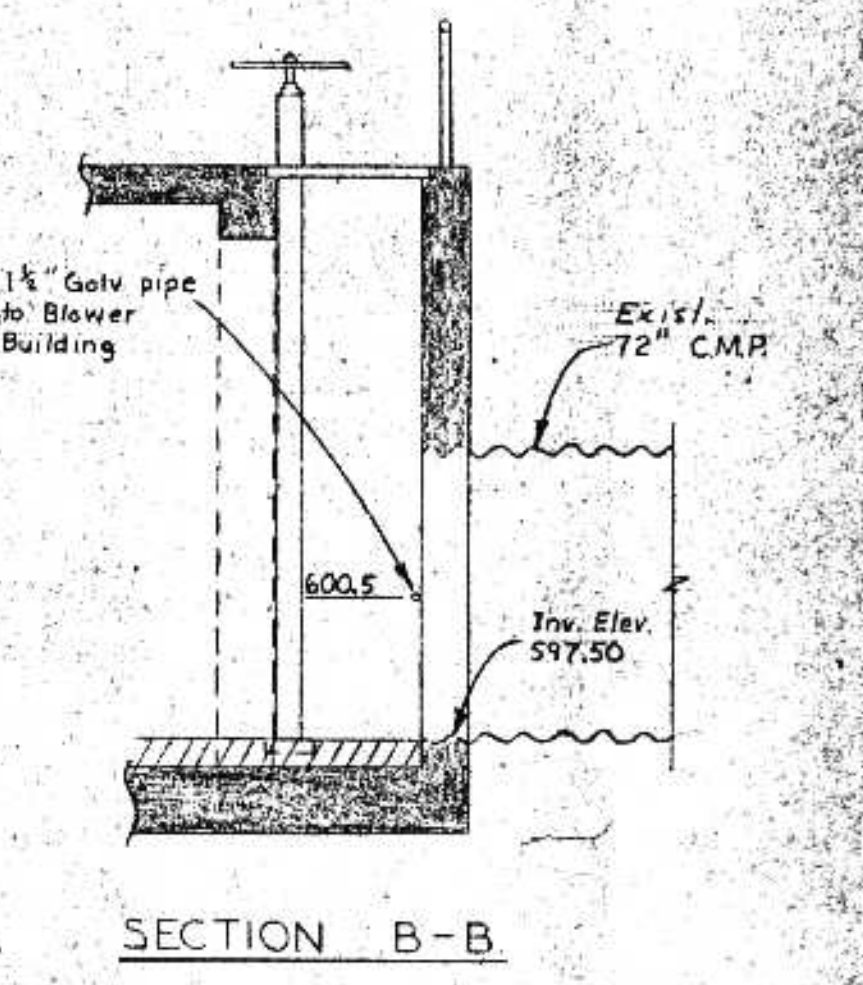
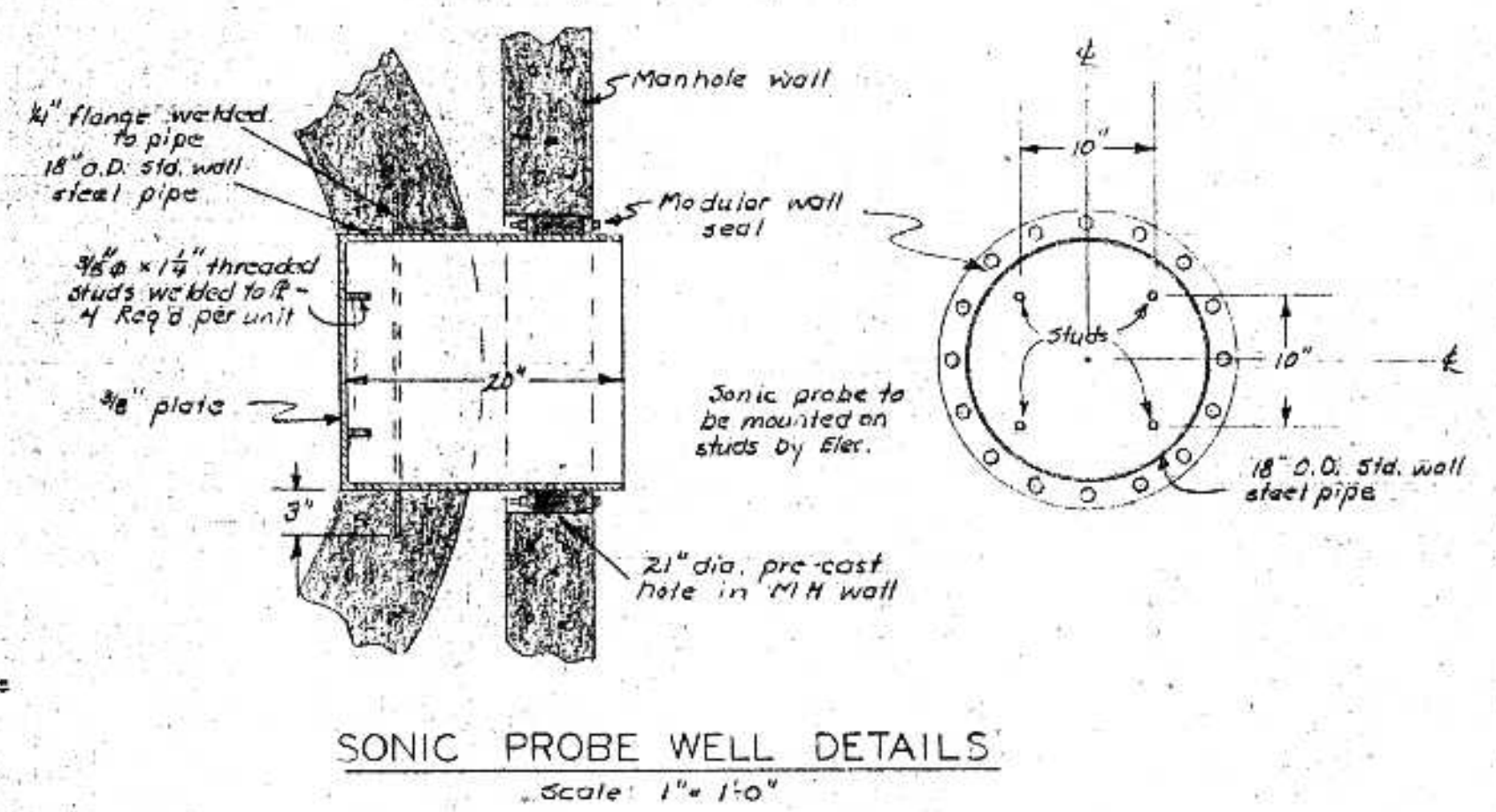
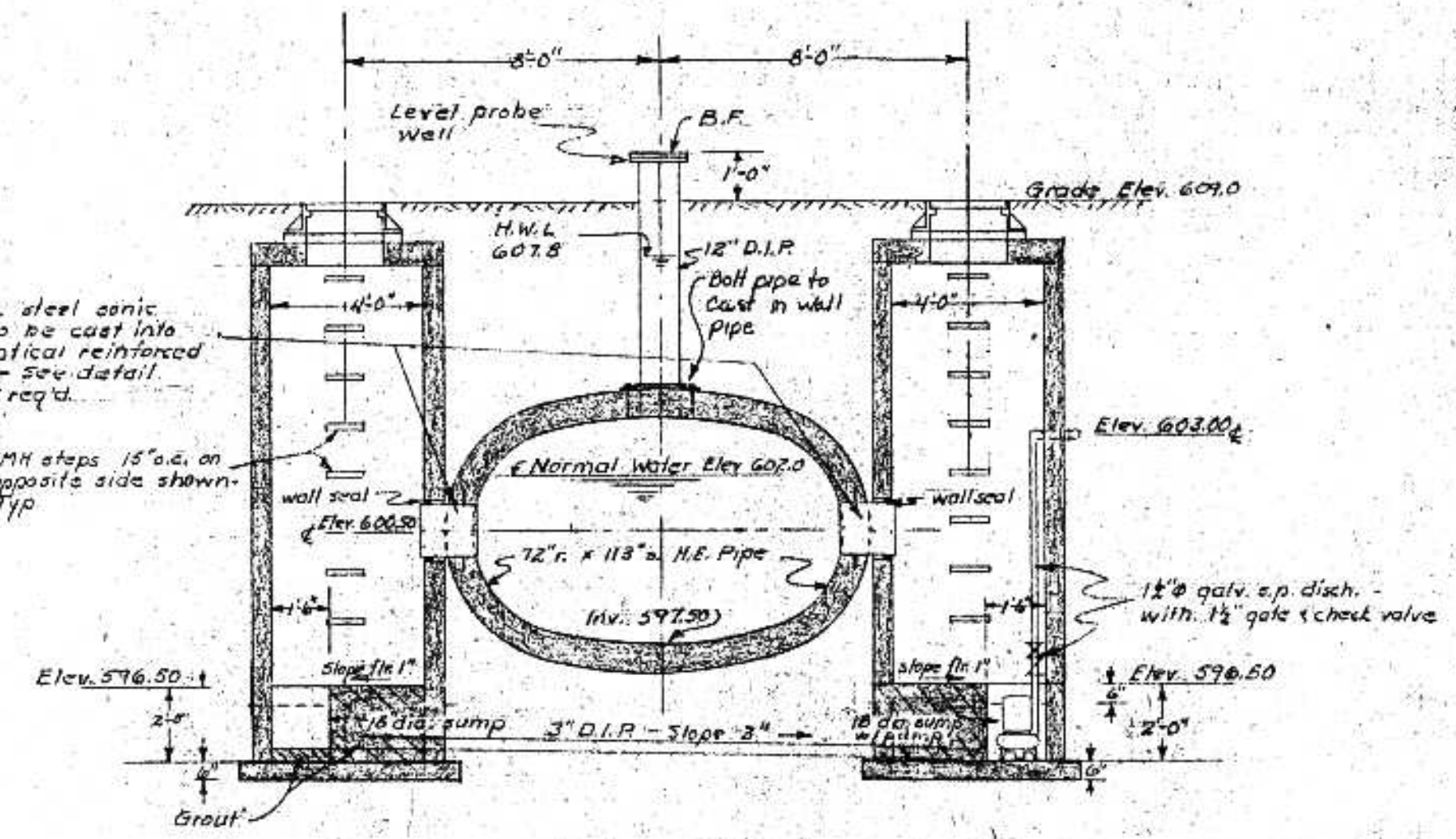
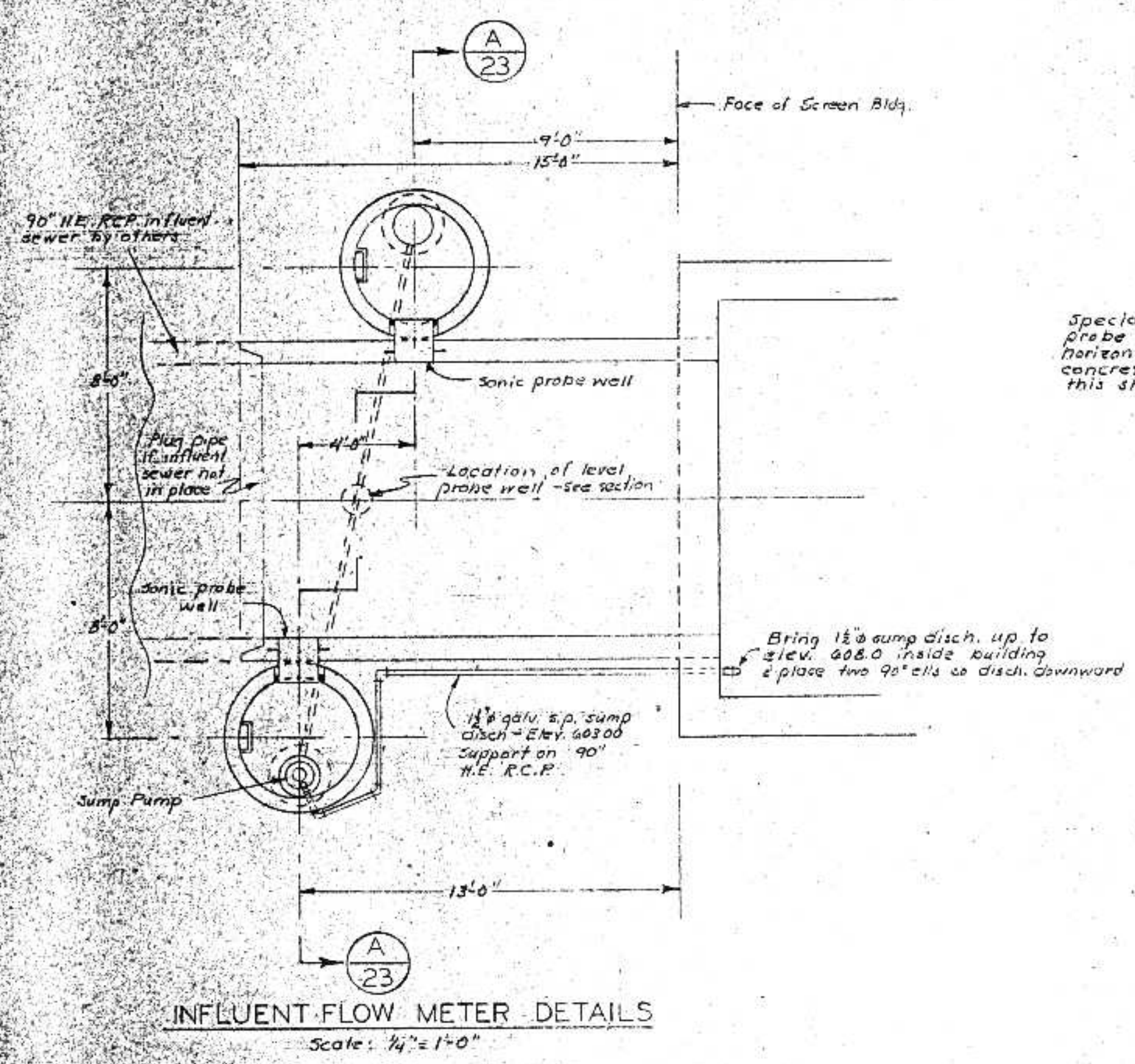
Plug exist. CMP outlet

Emergency overflow Elev. 600+20

- PLAN SYMBOLS**
- 1. Existing Pipe
 - 2. Pipe Under Construction By Others
 - 3. New Pipe
 - 4. Existing Structures - With, Without Roof
 - 5. Structures Under Construction By Others - With, Without Roof
 - 6. New Structures - With, Without Roof
 - 7. New Bituminous Surface Roadway
 - 8. New Static Aerator Units
 - 9. New Slag Surface Roadway

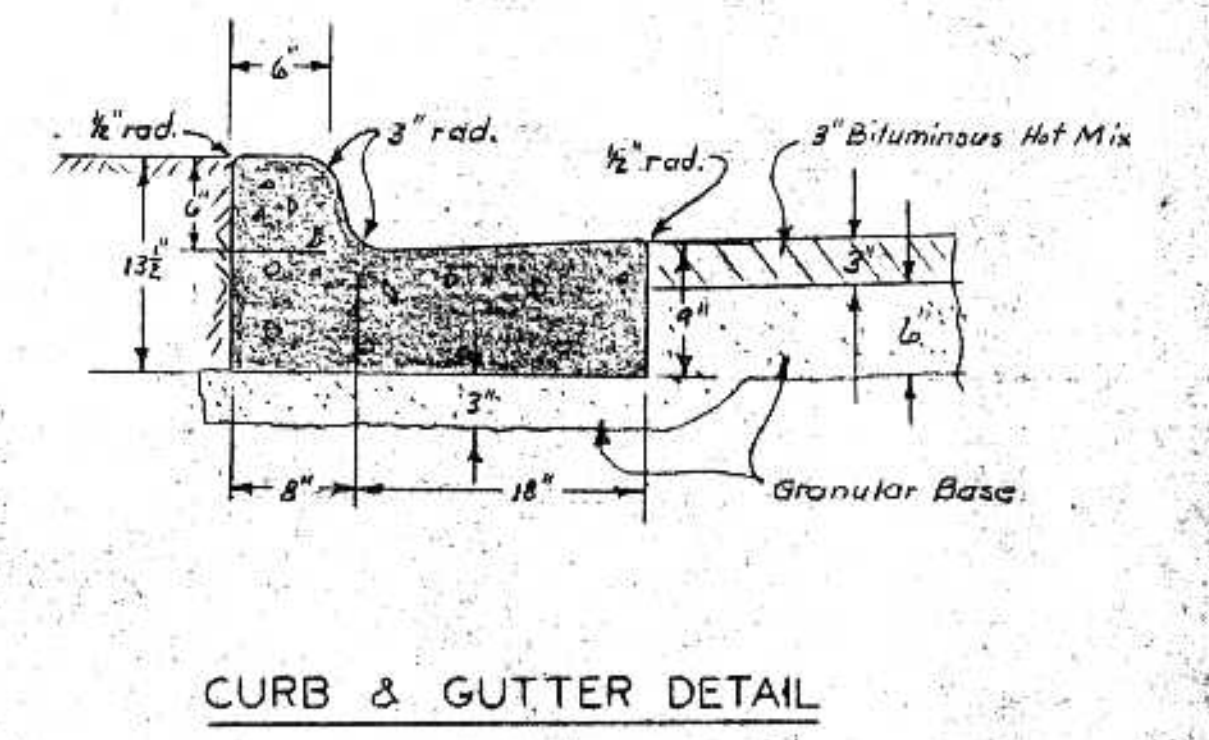
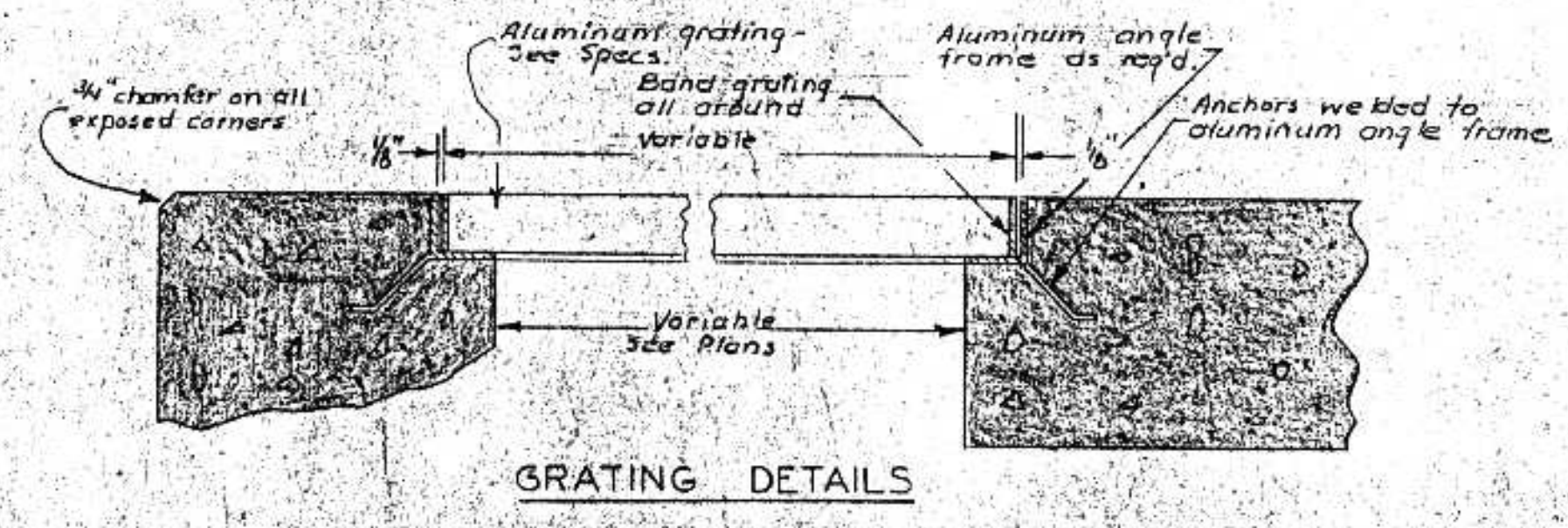
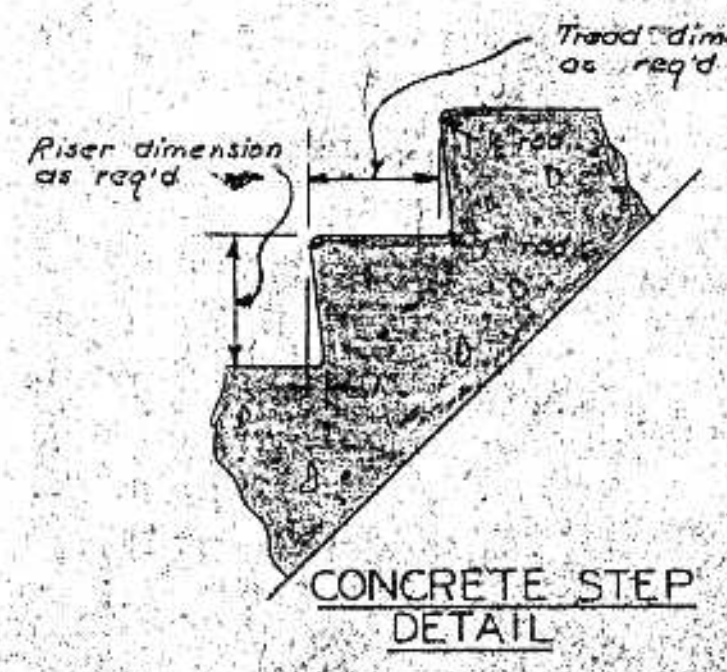
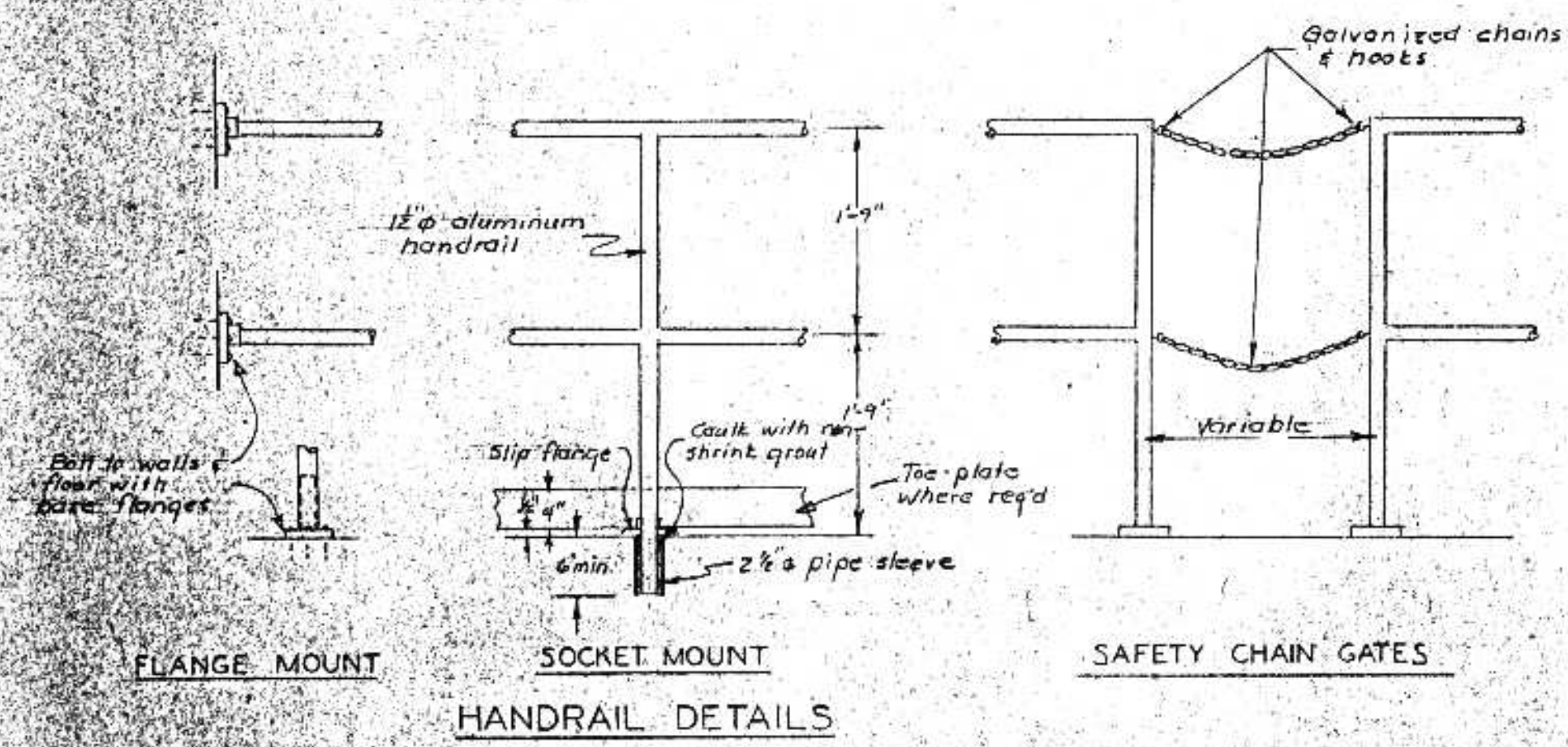
- PLAN ABBREVIATIONS**
- 1. D.I.P. Ductile Iron Pipe
 - 2. P.E.P. Polyethylene Pipe
 - 3. R.C.P. Reinforced Concrete Pipe
 - 4. C.M.P. Corrugated Metal Pipe
 - 5. S.P. Steel Pipe
 - 6. B.V. Butterfly Valve
 - 7. P.V. Plug Valve
 - 8. Inv. Invert Elevation

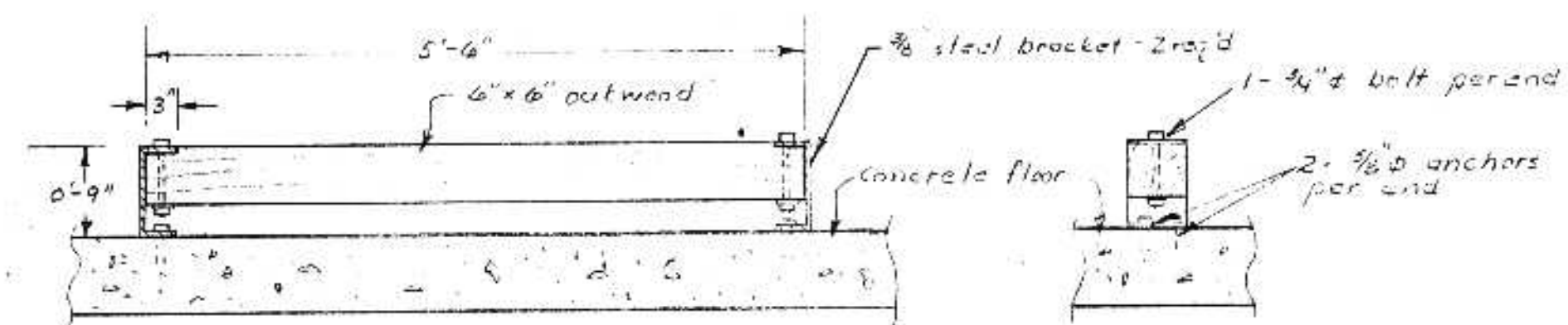
DREDGE SPOIL AREA
Excess material dredged from aerated stabilization pond to be deposited in this area - See Sheet 54



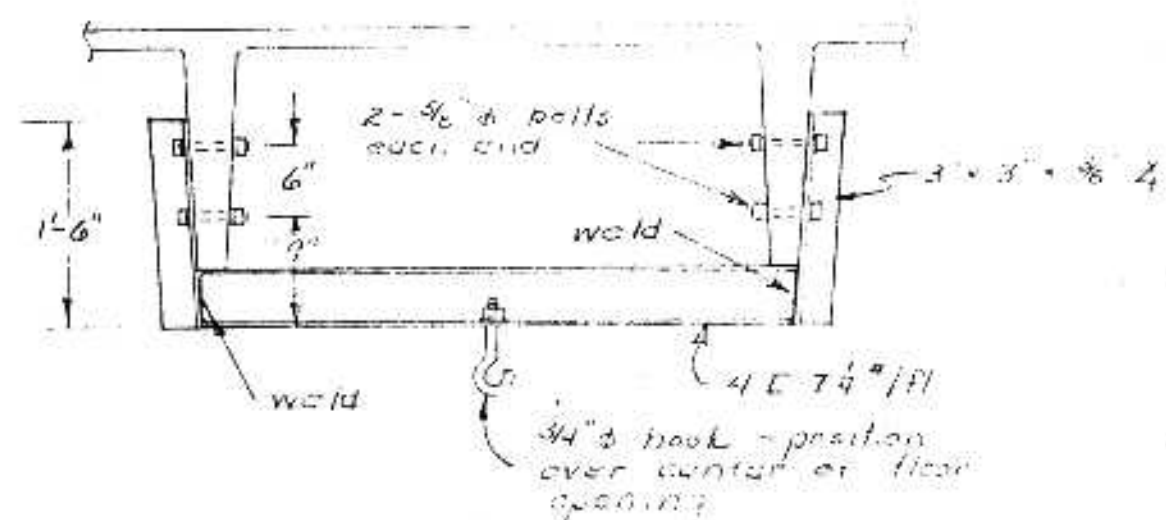
- WATER SYSTEM NOTES**
- Abbreviations - int. h.b. = interior hose bibb, ext. h.b. = exterior hose bibb, s.e.w. = stop & waste valve.
 - All valves not labeled shall be gate valves of the same size as line on which located.
 - All hose bibbs shall be equipped with back-flow preventer per specification.
 - All items shown shall be by Fleck Contractor unless otherwise stated.
 - Provide back-flow preventers per spec. ahead of connections to polymer feed tank, generator set motor cooler & pump seals.

PUMP & BLOWER BUILDING

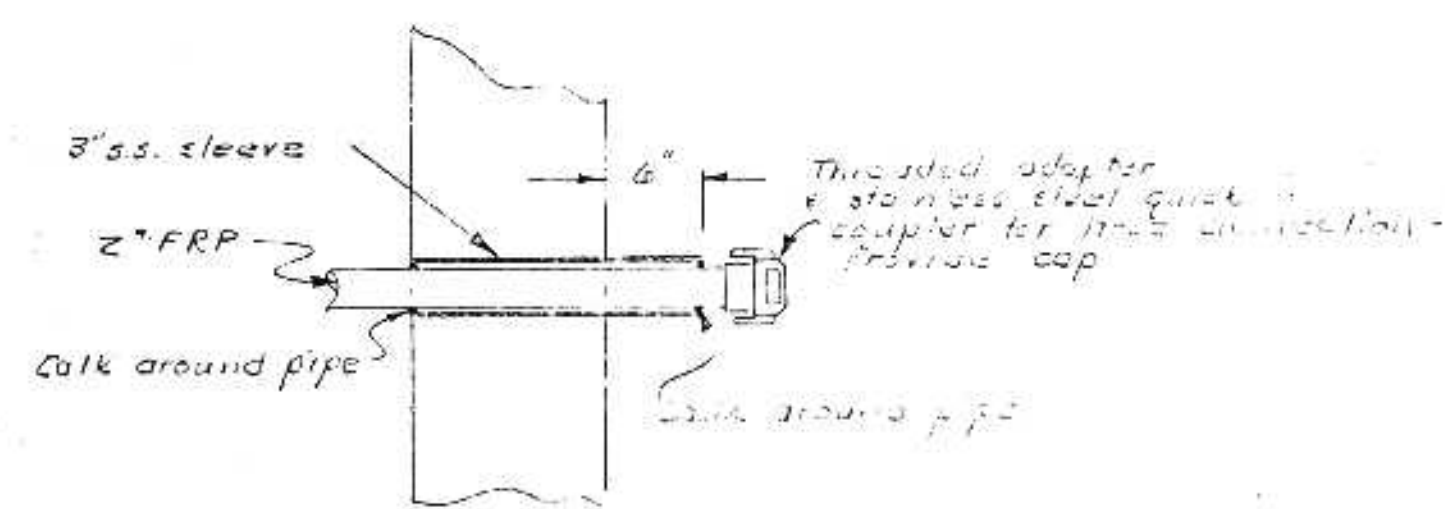




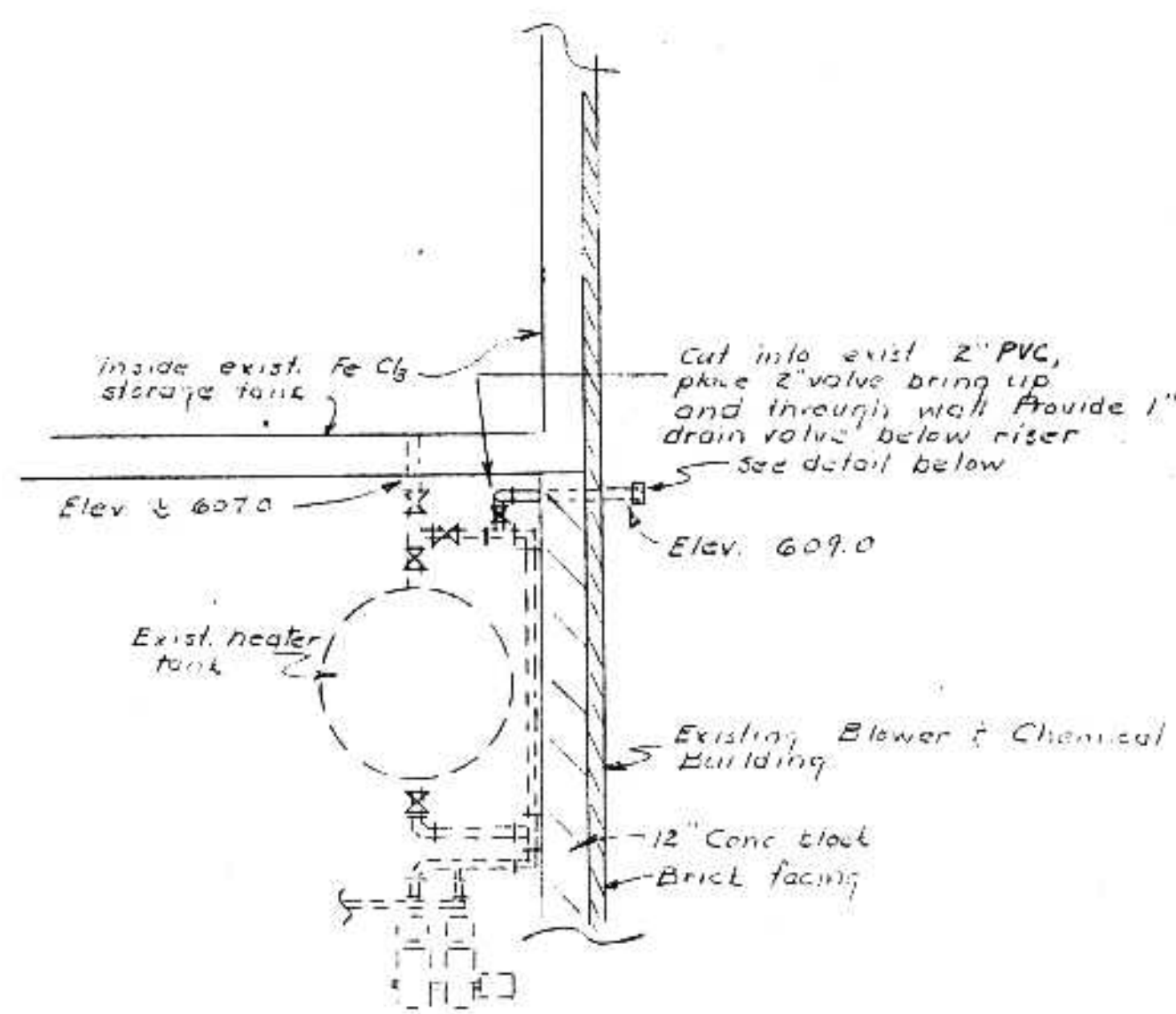
CONTAINER BUMPER
Scale: 3/4" = 1'-0"



LIFTING HOOK DETAIL - 2 REQ'D
Scale: 3/4" = 1'-0"

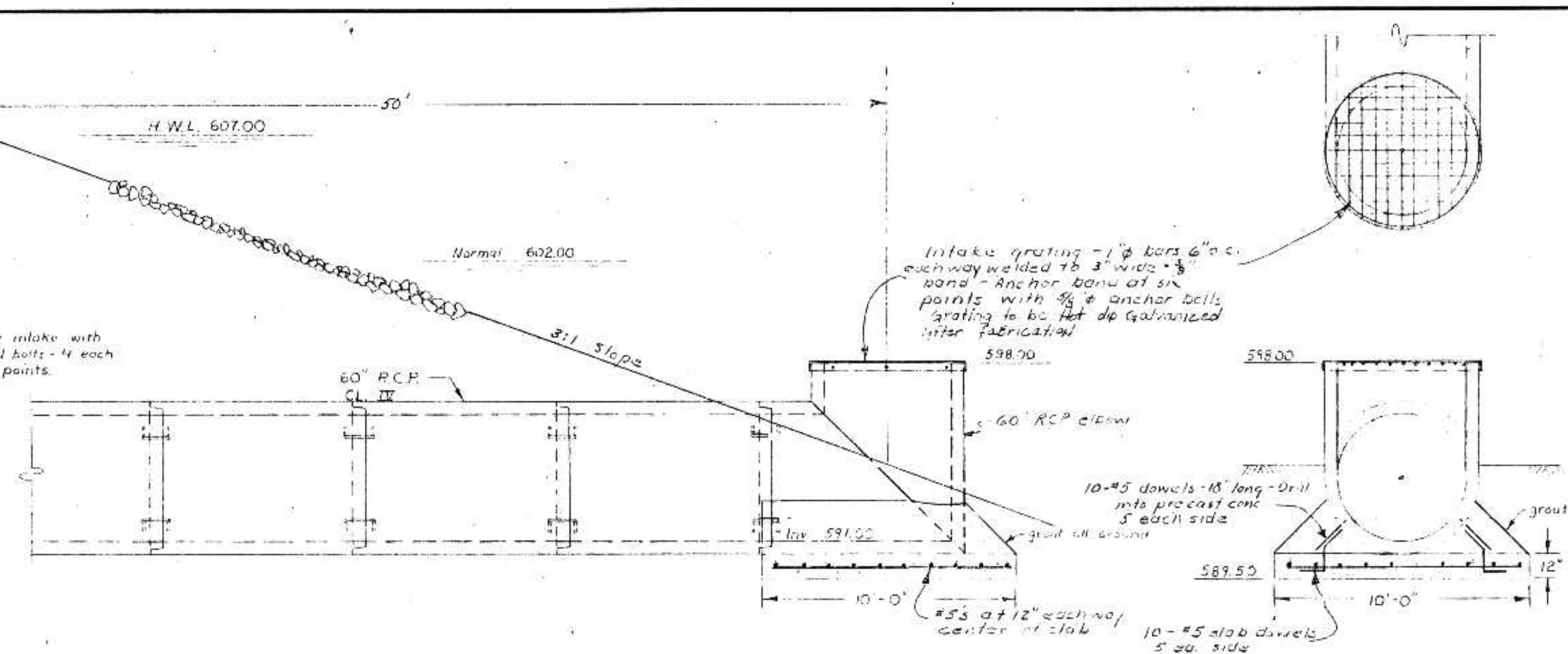


FERRIC CHLORIDE FILL & TRANSFER LINE DETAIL
No Scale

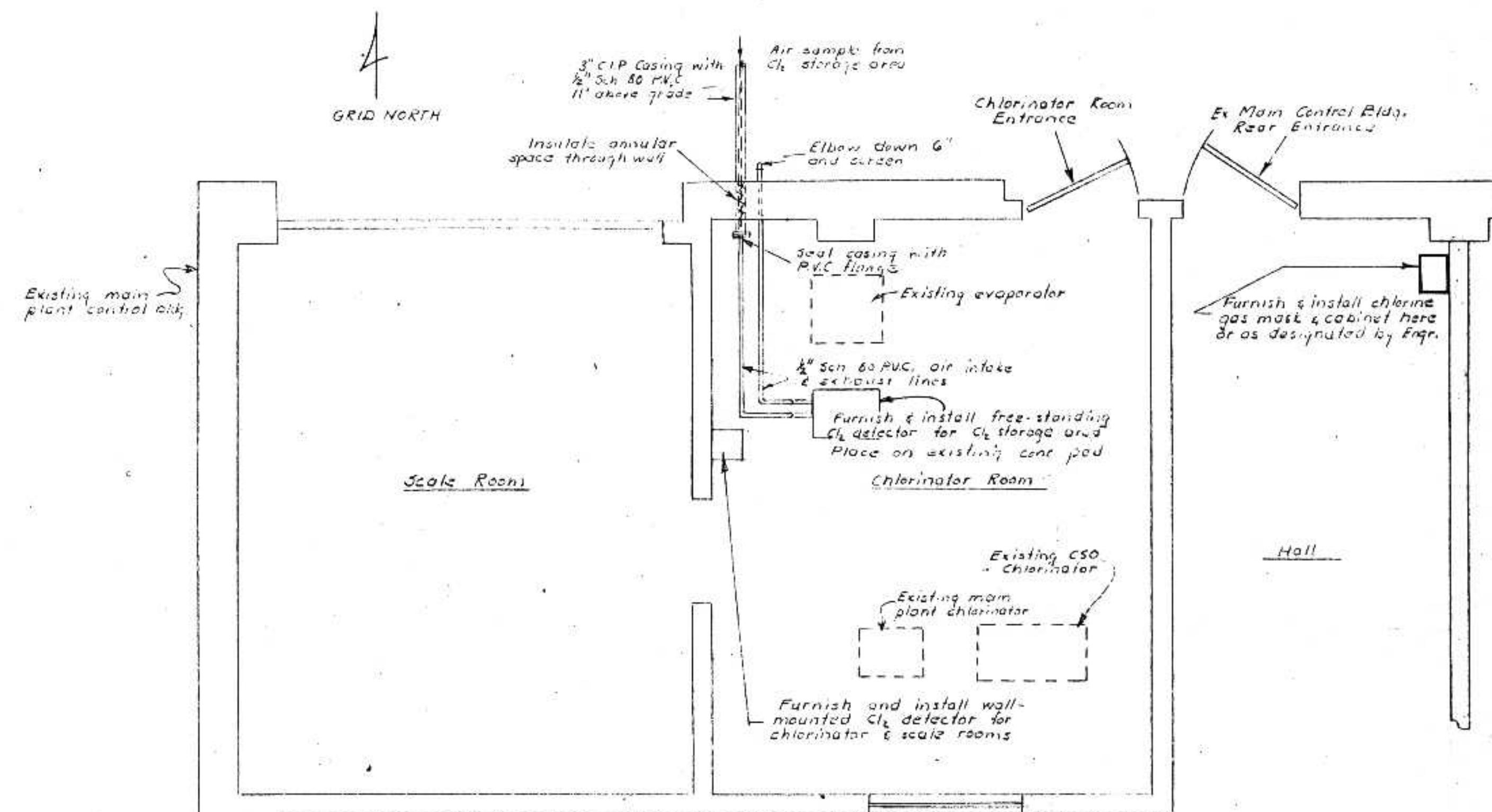


FERRIC CHLORIDE TRANSFER LINE
Scale: 1/4" = 1'-0"

NOTE: Tie 8 joints near intake with 3/4" galvanized U bolts - 4 each joint if quarter points.



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



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

D N R OCT 10 1975

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.
DATE: JUNE 14, 1975 REG. NO. EQ6599

SURVEY	RET
DRAWN	RET
DESIGN	RET
APPROVED	RET

REVISIONS
10/17/75 Add Cl₂ detector
2/11/76

BONESTROO, ROSENE, ANDERLIK & ASSOC., INC.
ST. PAUL, MINNESOTA

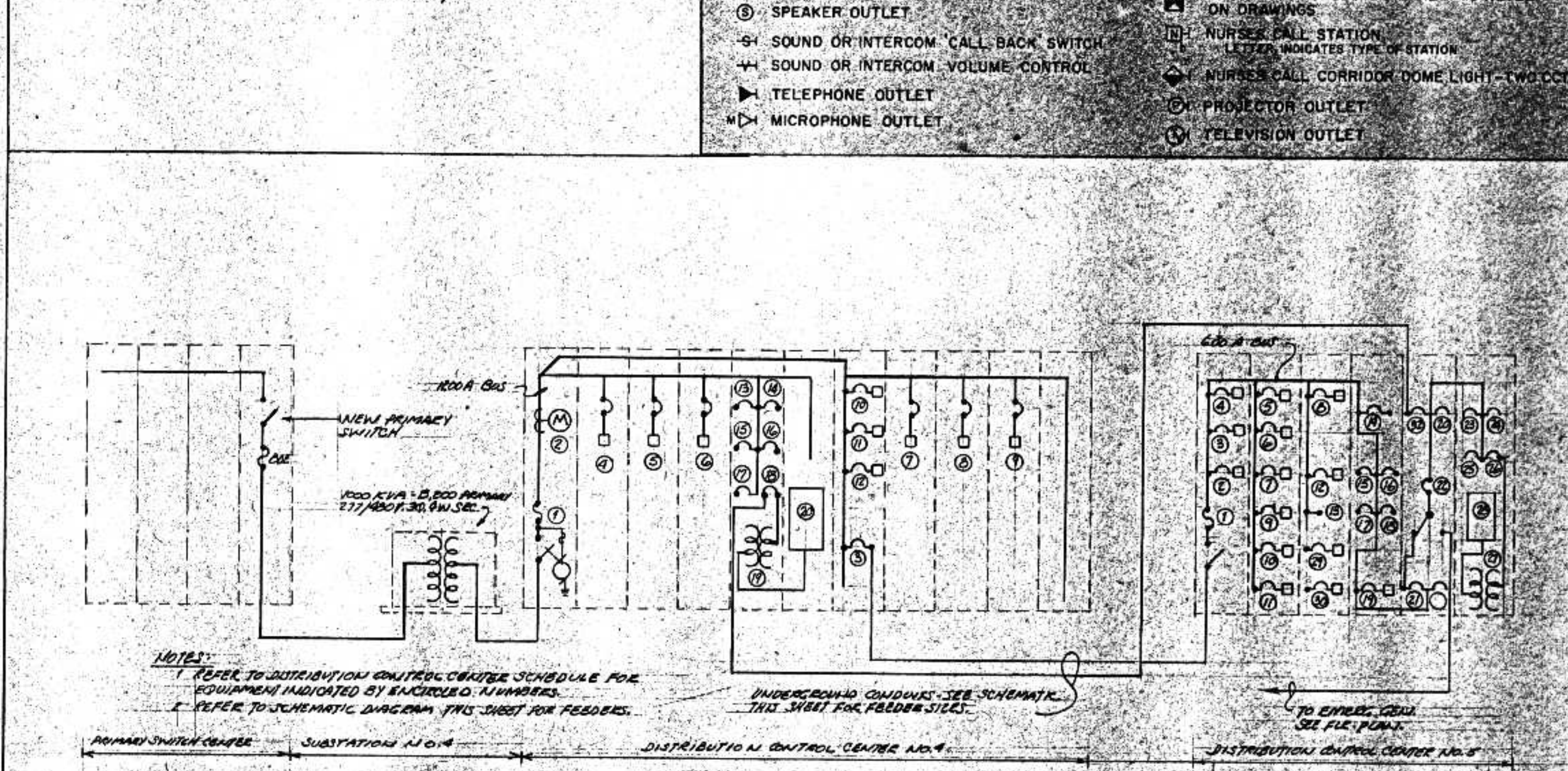
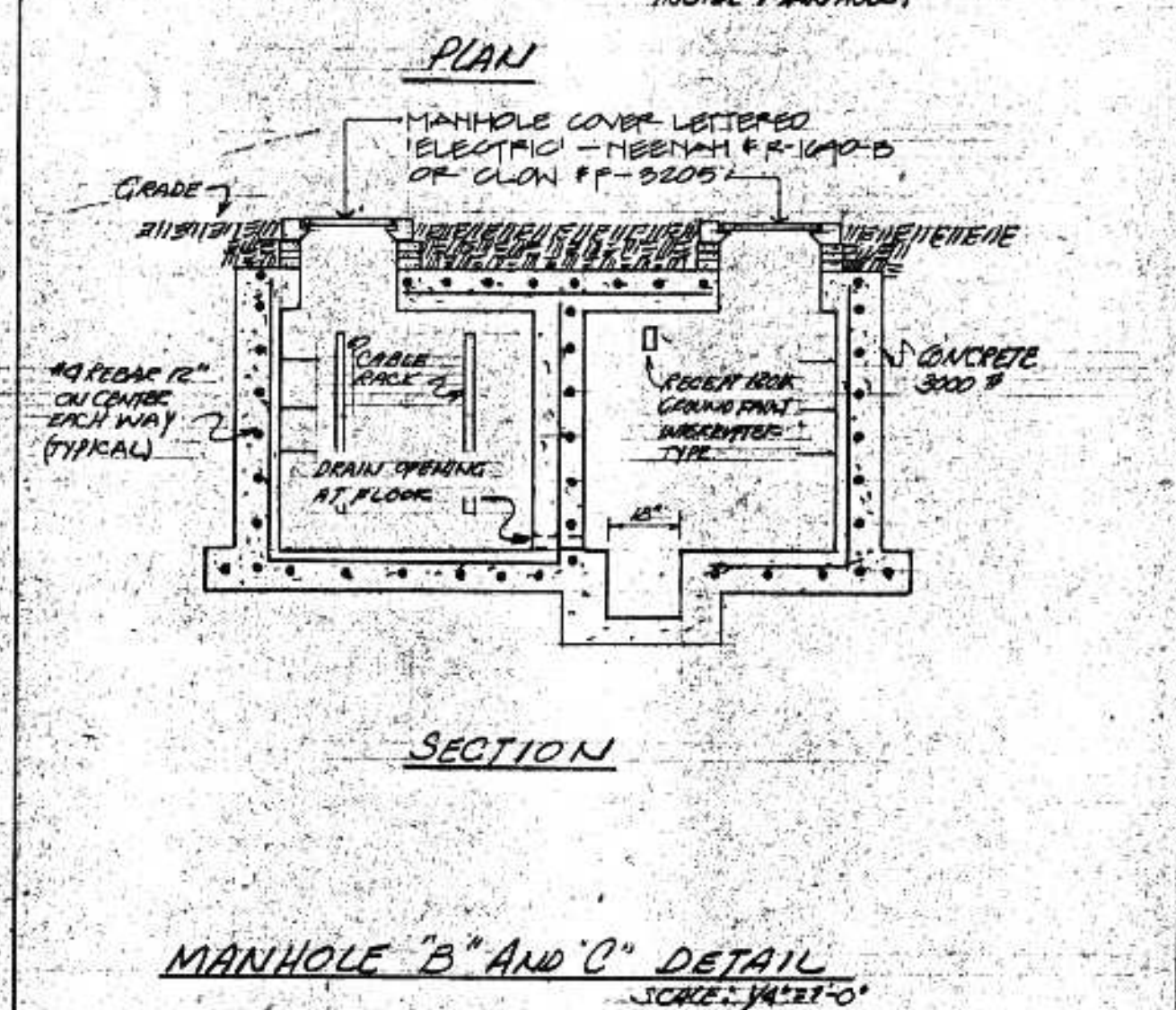
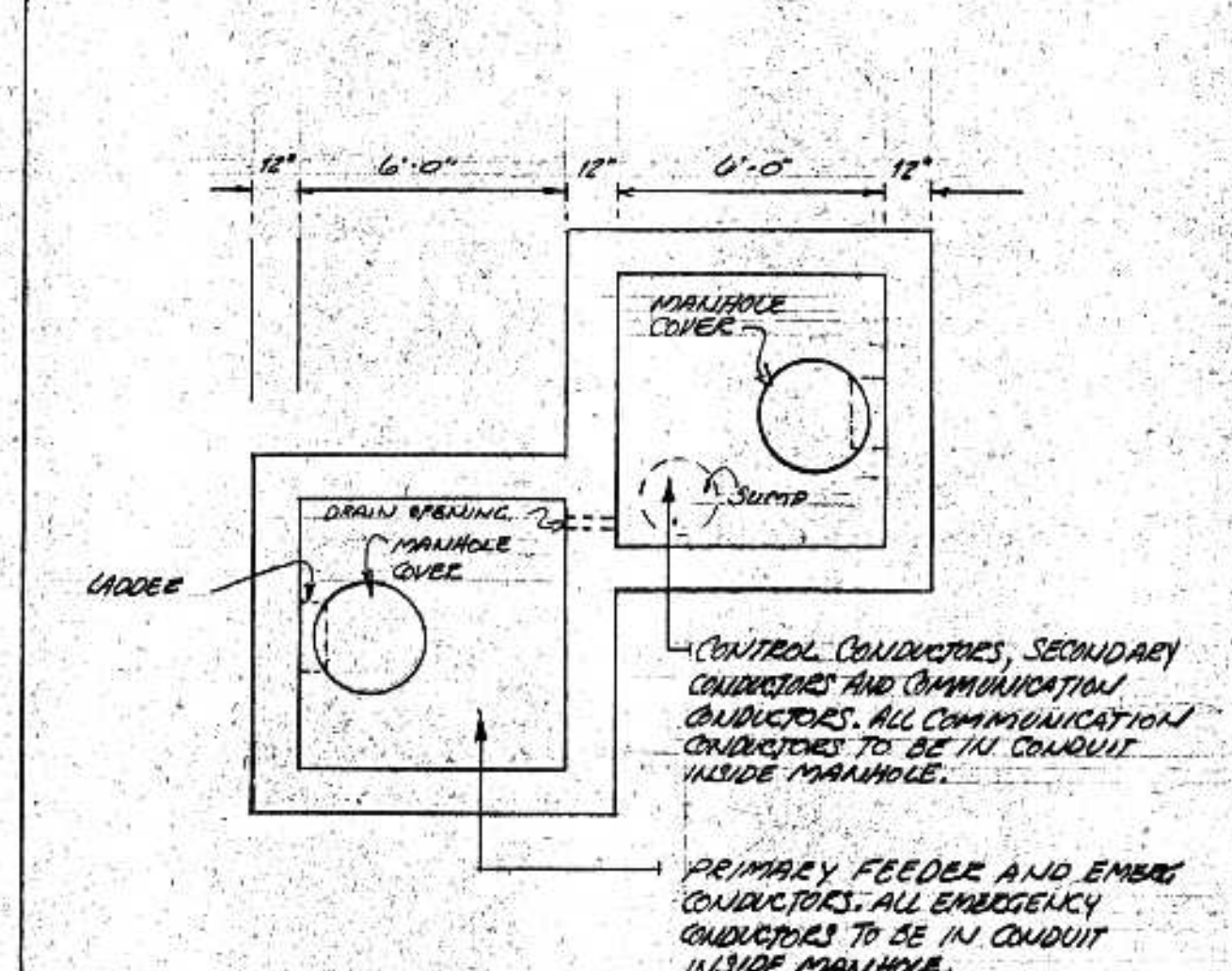
SUPERIOR, WISCONSIN
DATE: JUNE 14, 1975
CDMM 6888F

C.S.O. PLANT - DISTRICT 2
DETAILS

SHEET
24
53

ELECTRICAL SYMBOLS

<ul style="list-style-type: none"> CEILING OUTLET OUTLET FOR OR CONNECTION TO RECESSED LIGHTING FIXTURE WALL OUTLET OUTLET MOUNTED BELOW, OR ON MECHANICAL DUCT WORK EXIT LIGHT DUPLIX CONVENIENCE RECEPT NEMA 5-15R COMBINATION 20A, 120V-208V RECEPT. GROUND NEMA 5-20R + 6-20R DUPLIX CONVENIENCE RECEPT. UPPER HALF SWITCHED. NEMA 5-15R RANGE RECEPT. 50A, 3P+G, 4W, NEMA 14-50R DUPLIX CONVENIENCE RECEPT. NEMA 5-20R BRACKET INDICATES ALL DEVICES ON COMMON PLATE. MIN. OF ONE GANG PER DEVICE FLOOR OUTLET <ul style="list-style-type: none"> F - FLUSH DEVICE P - PEDESTAL MTD. DEVICE C - CONDUIT CONNECTED DEVICE S - STANDPIPE SINGLE POLE SWITCH DOUBLE POLE SWITCH 3-WAY SWITCH 4-WAY SWITCH DOOR SWITCH KEY SWITCH SWITCH AND PILOT MOMENTARY CONTACT SWITCH DIMMER OR DIMMER CONTROL PUSH BUTTON BUZZER BELL TRANSFORMER FIRE ALARM STATION FIRE ALARM HORN FIRE ALARM BELL FIRE ALARM - DOOR HOLDER THERMAL DETECTOR FIRE ALARM FLOW SWITCH IONIZATION DETECTOR IONIZATION DETECTOR INSTALLED IN DUCT DUCT SIZE CHIME CLOCK OUTLET SPEAKER OUTLET SOUND OR INTERCOM CALL BACK SWITCH SOUND OR INTERCOM VOLUME CONTROL TELEPHONE OUTLET MICROPHONE OUTLET 	<ul style="list-style-type: none"> HOME RUN PANEL NUMBER CIRCUIT NUMBER INDICATES WIRE SIZE IF NOT NOTED #12 AWG CONDUCTORS SHALL BE USED NOTE: ANY CIRCUITS WITHOUT FURTHER DESIGNATION IS A TWO-WIRE CIRCUIT. A GREATER NUMBER OF WIRES ARE INDICATED BY CROSS MARKS ANY SYMBOL MAY BE FURTHER DESIGNATED BY ONE OR MORE OF THE FOLLOWING SUBSCRIPTS: <ul style="list-style-type: none"> PS - OUTLET WITH PULL SWITCH WP - WEATHERPROOF OUTLET X - EXISTING OUTLET (DOES NOT APPLY TO EQUIP. OR DEVICE) XC - EXISTING OUTLET TO BE REMOVED OR COVERED WITH A BLANK COVER (DOES NOT APPLY TO EQUIP. OR DEVICE) A - LETTER INDICATES FIXTURE TYPE NUMBER INDICATES CIRCUIT NUMBER TERMINAL CABINET ANNUNCIATOR BRANCH CIRCUIT PANEL (250V OR LESS) BRANCH CIRCUIT PANEL (277V/480) MAGNETIC MOTOR STARTER DISCONNECT SWITCH DISCONNECT SWITCH & MAGNETIC MOTOR STARTER IN SAME LOCATION MANUAL MOTOR STARTING SWITCH MANUAL MOTOR CONTROL SWITCH MANUAL MOTOR CONTROL SWITCH WITH PILOT THERMOSTAT AUXILIARY EQUIPMENT (AS NOTED) JUNCTION BOX UNDER FLOOR DUCT <ul style="list-style-type: none"> LOW POTENTIAL OUTLET HIGH POTENTIAL OUTLET AUXILIARY SYSTEM CIRCUITS A INDICATES SHIELDED CABLE (SEE SPECS) C INDICATES CABLE ONLY (CONDUIT NOT NEEDED) BRANCH CIRCUIT (CEILING OR WALL) BRANCH CIRCUIT (FLOOR) EXISTING CONDUIT EXISTING CONDUIT, CONDUCTORS REMOVED EXISTING CONDUIT - NEW VENDOR PLUS STRIP - OUTLET SPACING AS SHOWN OR SPECIFIED INDICATES NOTE ON PLAN EQUIPMENT OR APPLIANCE (NO. REFERS TO SCH.) MOTOR (NO. REFERS TO SCHEDULE) INTERCOMMUNICATION STATION OUTLET DRY-TYPE TRANSFORMER - SIZE AS NOTED ON DRAWINGS NURSE CALL STATION LETTER INDICATES TYPE OF STATION NURSE CALL CORRIDOR DOME LIGHT - TWO DCI PROJECTOR OUTLET TELEVISION OUTLET
---	--



- #1 4" C-3# 350MMCM (277/480V) POWER
 - #2 4" C WITH TYPE "A" AND TYPE "B" CONTROL CONDUCTORS
 - #3 1 1/2" C-1# 870 BLDEN & 1# 610 BLDEN AND 1# 12 (PULL WIRE)
 - #4 1 1/2" C-4# 6 (EMERG - 277/480V)
- #1 4" C-3# 2 (15KV) AND 1# 4 (600V) - POWER
- #1 3" C-4# 350MMCM (277/480V POWER)
- #1 1 1/2" C-4# 6 (EMERG - 277/480V)
 - #2 1 1/2" C-2# 870 BLDEN, 2# 610 BLDEN AND 1# 12 (PULL WIRE)
 - #3 3" C WITH TYPE "B" CONTROL CONDUCTORS, 2# 12 (RETENTION TANK), 2# 12 (REPT AT MANHOLE B AND C) AND 2# 12 (SPARE)
- #1 4" C-3# 2 (15KV) AND 1# 4 (600V) - POWER
 - #2 1 1/2" C-2# 870 BLDEN, 2# 610 BLDEN AND 1# 12 (PULL WIRE)
 - #3 4" C WITH TYPE "A" AND "B" CONTROL CONDUCTORS AND 2# 12 (REPT AT MANHOLE B AND C)
- #1 EXIST 4" CONDUIT - INSTALL NEW 3# 2 (15KV) AND 1# 4 (600V)
- #1 EXIST 4" C-3# 2 (15KV) AND 1# 4 (600V) TO REMAIN AS IS
 - #2 EXIST 4" CONDUIT - INSTALL NEW 3# 2 (15KV) AND 1# 4 (600V)
- #1 EXIST 1 1/2" CONDUIT - INSTALL NEW 2# 870 BLDEN, 2# 610 BLDEN AND 1# 12 (PULL WIRE)
 - #2 EXIST 4" CONDUIT - INSTALL NEW CONTROL CONDUCTORS TYPE "A" AND TYPE "B"
- #1 EXIST 4" CONDUIT - INSTALL NEW CONTROL CONDUCTORS TYPE "A" AND TYPE "B"
- #1 EXIST 1 1/2" CONDUIT - INSTALL NEW 2# 870 BLDEN, 2# 610 BLDEN AND 1# 12 (PULL WIRE)
- #1 EXIST 4" C-6# 2 (15KV) AND 2# 4 (600V) TO REMAIN AS IS
 - #2 EXIST 4" CONDUIT - INSTALL NEW 3# 2 (15KV) AND 1# 4 (600V)

NOTE: REFER TO DETAIL SHEET FOR CONCRETE ENCASED DUCT DETAIL.

CONTROL CONDUCTOR SCHEDULE

TYPE	QUANTITY OF CONDUCTORS AND USE (TYPE THIN CONDUCTORS EXCEPT FOR SHIELDED PAIR)
A	TYPE # 6 SHIELDED (NURSE CALL EFFLUENT RM), 2# 12 (COMMON ALARM), 2# 12 (RETENTION TANK CALL FOR EMERGENCY FAILURE), 2# 12 (LOW TEMP ALARM - SCREEN ROOM), 2# 12 (PARKING LOTS - NOTES #3, 9, 10, 11, 12, 13, 15, 16, 17 & 18) AND 1# 12 (SPARE)
B	TANK # 6 SHIELDED (PND INCL), 2# 12 (PUMP & BLOWER BLDG LOW TEMP ALARM), 6# 12 (CALL FOR LOGS - NOTES #4, 5 & 6) AND 1# 12 (PARKING LOTS - NOTES # 1, 2, 3, 4, 5, 6, 7 AND 21) AND 1# 12 (SPARE)
C	TYPE # 6 SHIELDED (PND INCL) MOTORS # 1, 2, 3, 4, 5, 6, 7 AND 21) AND 1# 12 (SPARE)

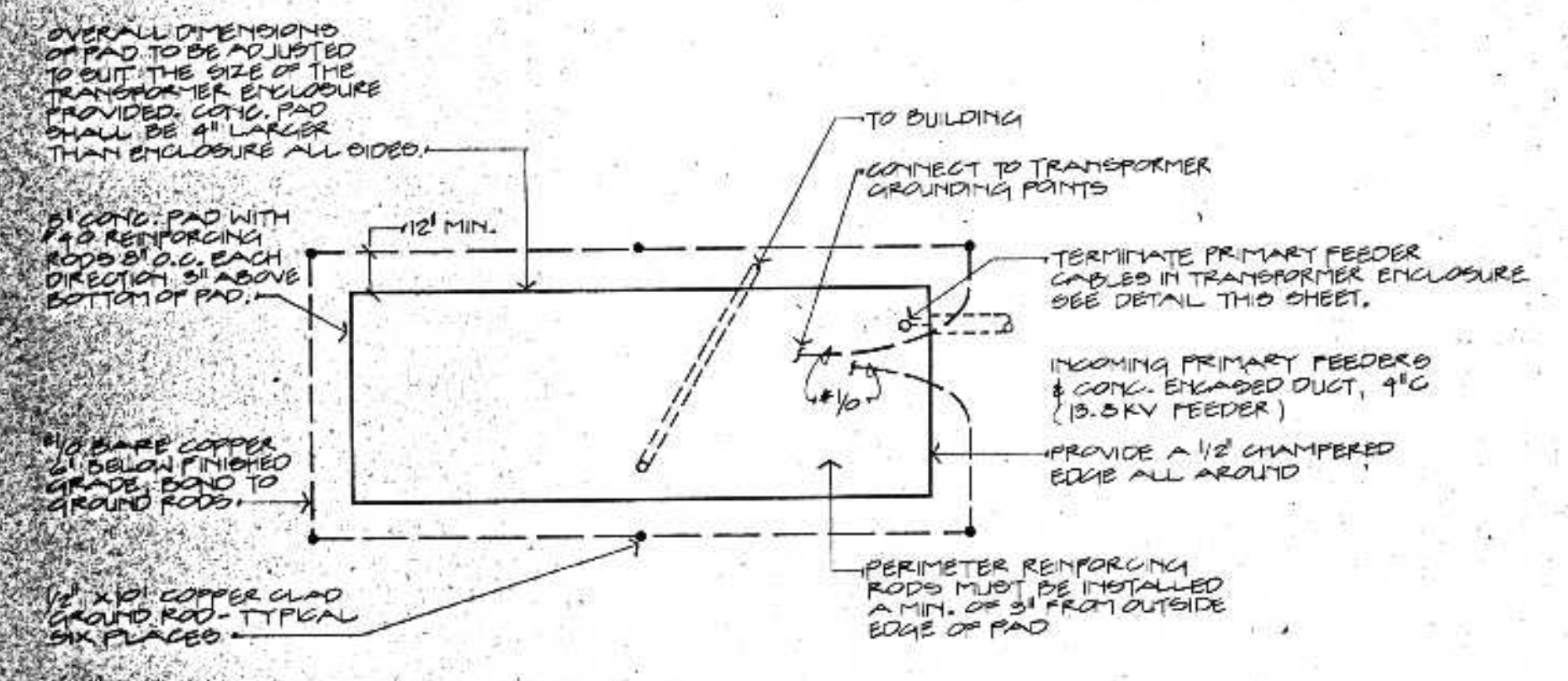
ERIKSEN ELLISON
AND ASSOCIATES INC.
CONSULTING ENGINEERS
SAINT PAUL, MINNESOTA

DATE: JUNE 14, 1978
DESIGNED BY: J. J. HANSEN
CHECKED BY: J. J. HANSEN
APPROVED BY: J. J. HANSEN

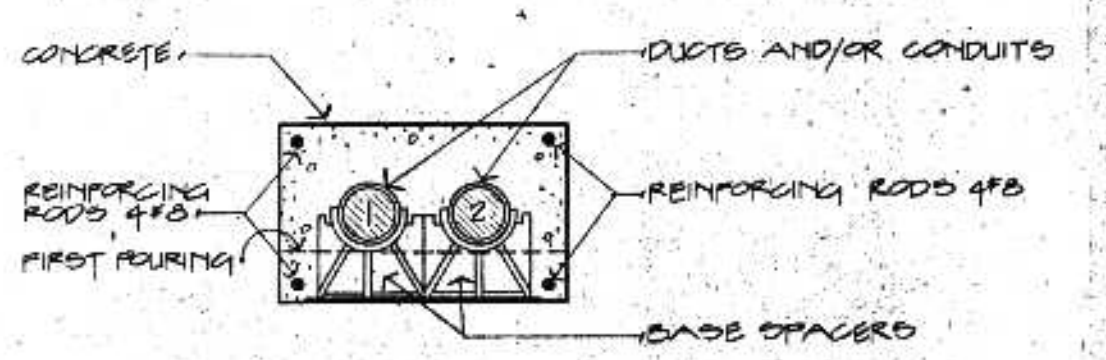
BONESTROO, ROSENE, ANDERLIE & ASSOC., INC.
ST. PAUL, MINNESOTA

SUPERIOR, WISCONSIN
DATE: JUNE 14, 1978
COMM 6888F

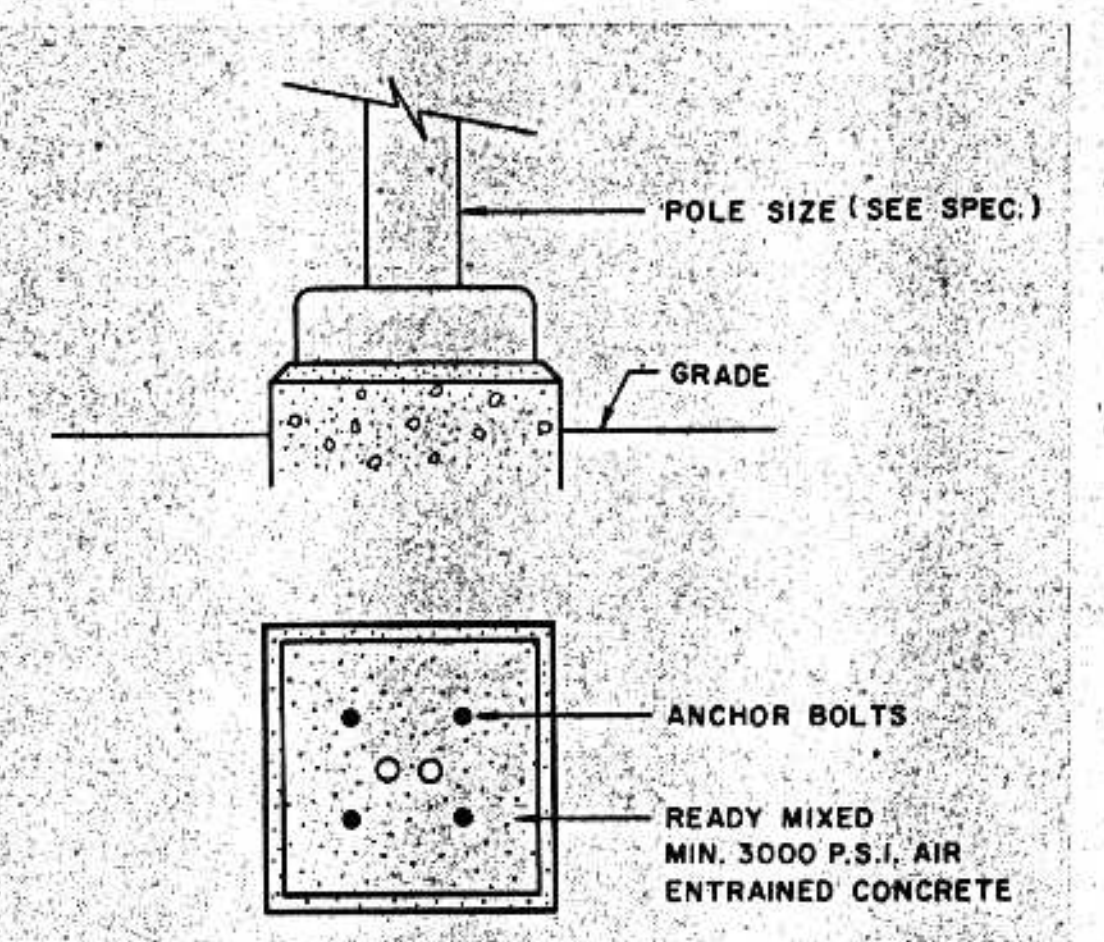
ELECTRICAL UNDERGROUND SCHEMATIC



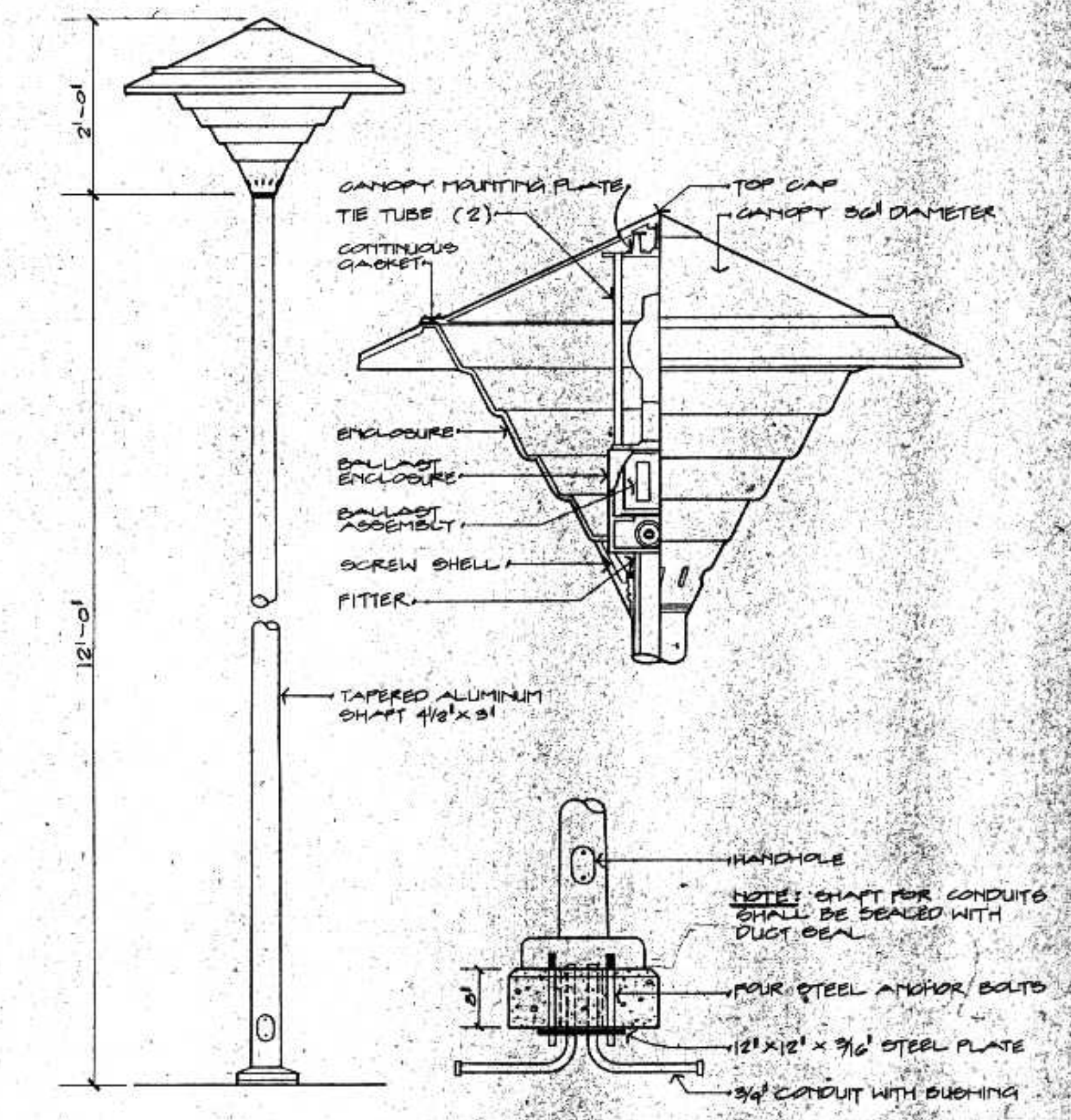
SUBSTATION TRANSFORMER PAD DETAIL
SCALE: 1/4" = 1'-0"



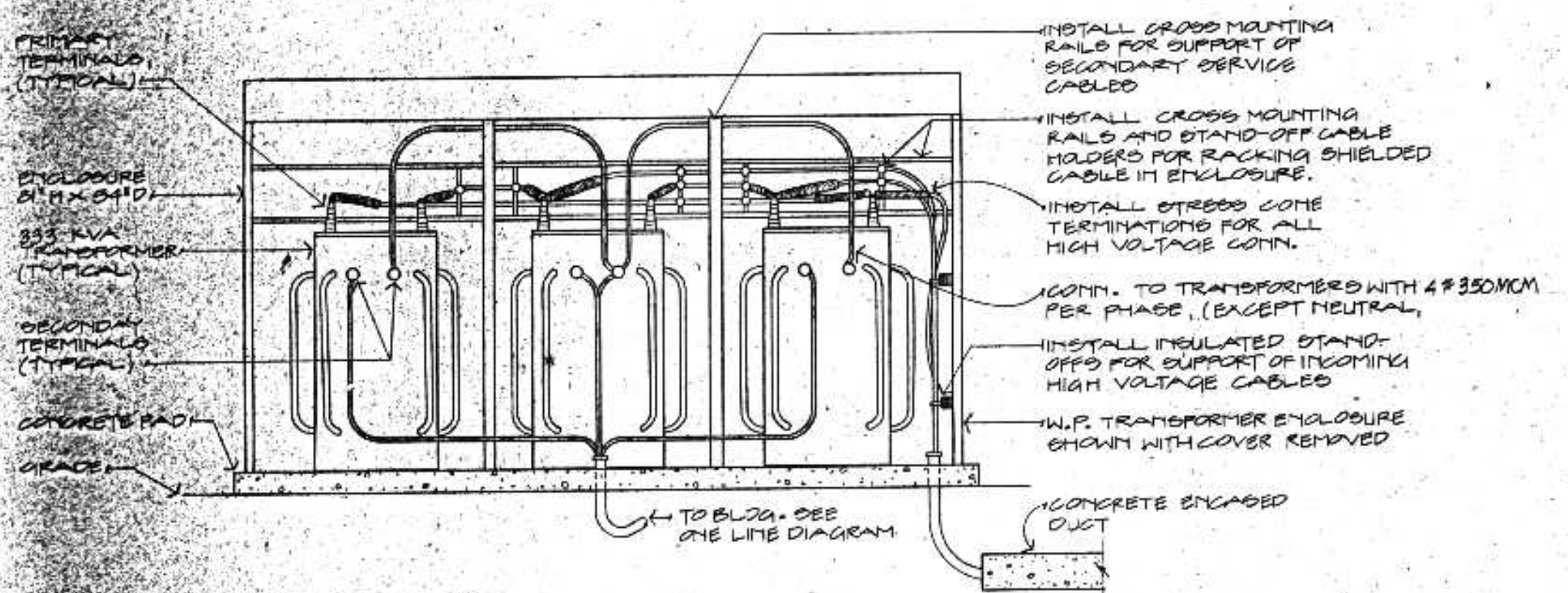
NOTES
1. 4\"/>



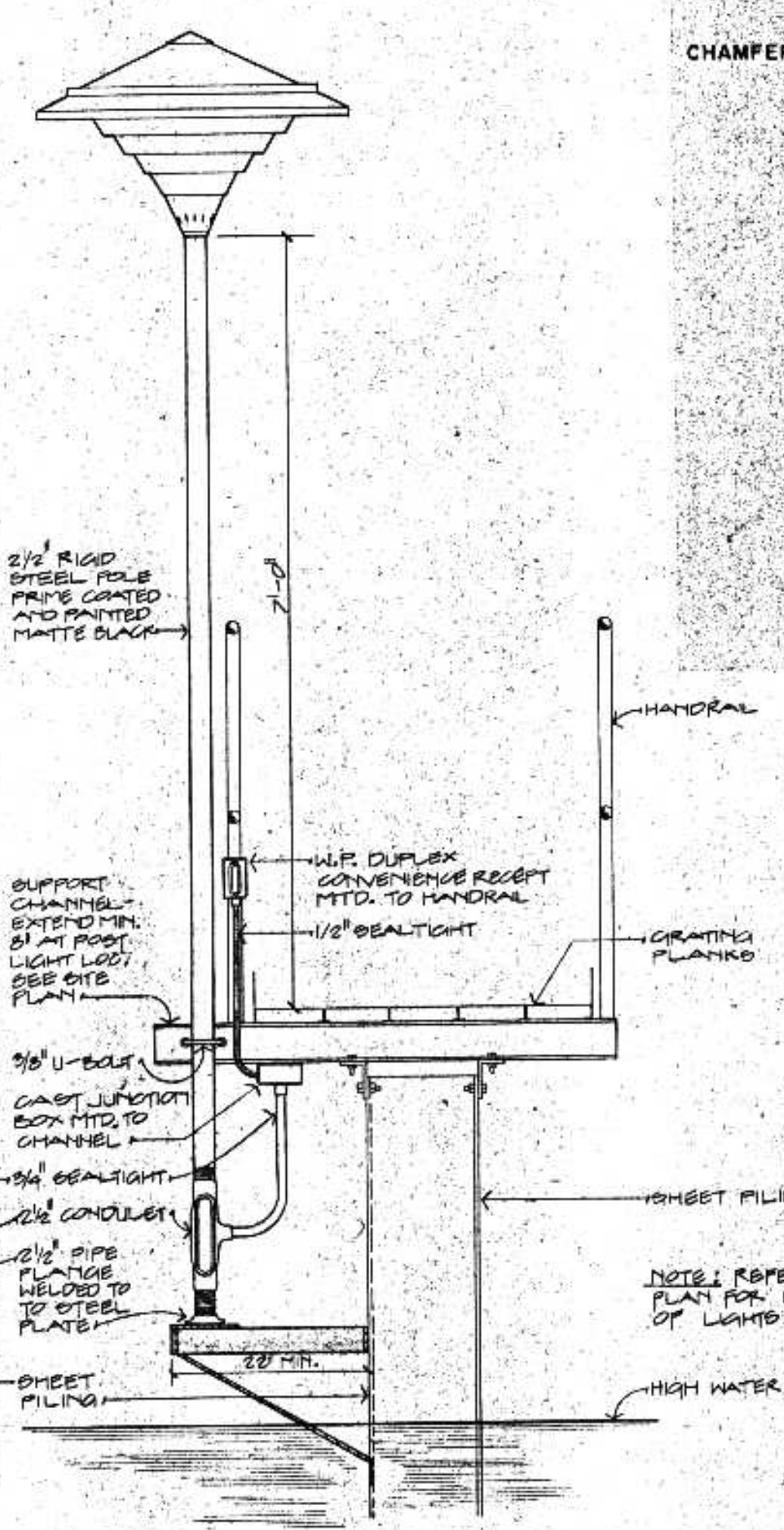
POST LIGHT BASE DETAIL "A"
N.T.S.



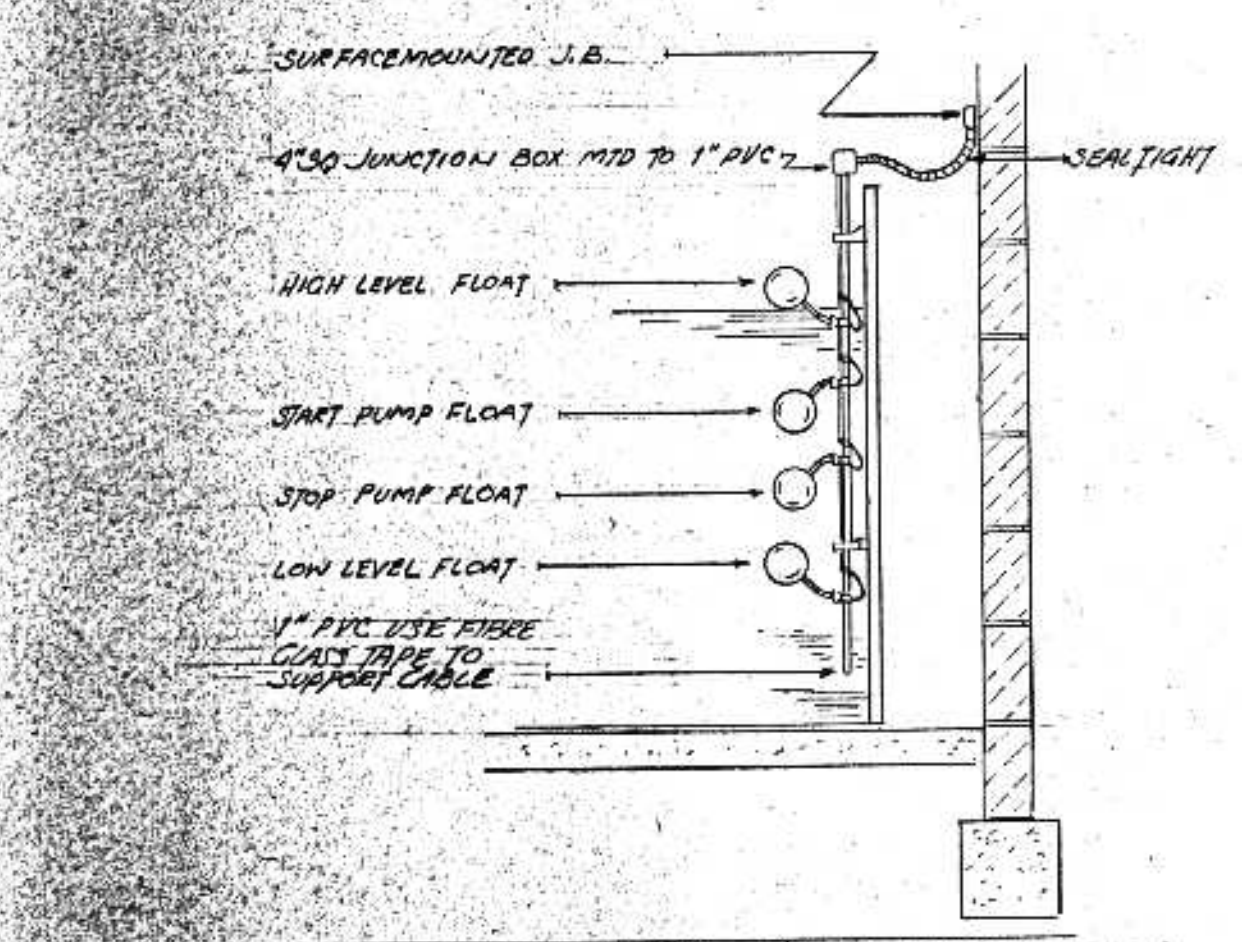
POST LIGHT DETAIL "B"
N.T.S.



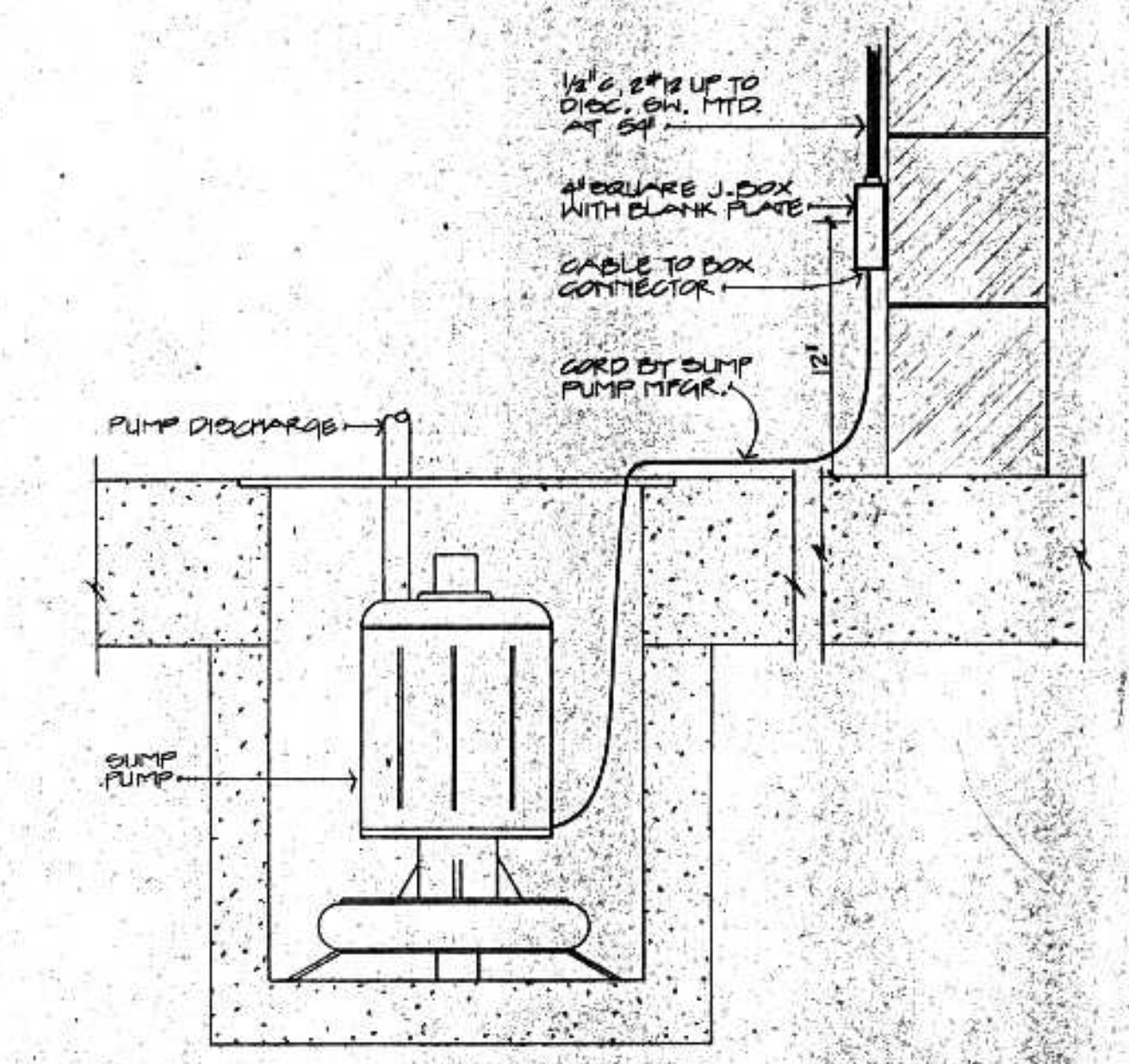
ELEVATION OF SUBSTATION NO. 4
NOT TO SCALE



SECTION - GATWALK LIGHTING
SCALE: 3/4\"/>



POLYMER STORAGE TANK FLOAT DETAIL
NOT TO SCALE



SUMP PUMP CONNECTION DETAIL

DISTRIBUTION CONTROL CENTER SCHEDULE

BUS & TYPE	MAIN LUGS		MTR. NO.	UNIT #	CIRCUIT BREAKER & STARTERS			INT. AMPS	
	SIZE	LOCA.			FRAME SIZE	TRIP RATING	POLES		STARTER SIZE
DCC #4 277/480V, 3Ø, 4W	1200	BOTTOM	MAIN	(1)	1200	1200	3	(FUSED SW)	25000
			METER	(2)	-	-	-	-	
			DCC#5	(3)	600	600	3	-	
			1	(4)	225	175	3	4AT	
			2	(5)	225	175	3	4AT	
			3	(6)	225	175	3	4AT	
			4	(7)	400	200	3	4AT	
			5	(8)	400	200	3	4AT	
			6	(9)	400	200	3	4AT	
			7	(10)	50	20	3	1	
			27	(11)	50	15	3	0	
			34	(12)	50	15	3	0	
			37	(13)	50	30	3	-	
			35	(14)	50	20	3	-	
			36	(15)	50	20	3	-	
			WALL LGTS	(16)	50	20	2	-	
			POST LGTS	(17)	50	20	2	-	
			TFMR	(18)	50	30	3	-	
			9 KVA TFMR	(19)	-	-	-	-	
			120/208 V, PANEL	(20)	SEE DCC #4 PANELBOARD SCHEDULE				
			SPACE	(21)	-	-	-	-	
				(22)	SUPERVISORY CONTROL SECTION				

* MAIN SWITCH TO BE BOLTED PRESSURE SWITCH WITH GROUND FAULT PROTECTION.

DISTRIBUTION CONTROL CENTER SCHEDULE

BUS & TYPE	MAIN LUGS		MTR. NO.	UNIT #	CIRCUIT BREAKER & STARTERS			INT. AMPS	
	SIZE	LOCA.			FRAME SIZE	TRIP RATING	POLES		STARTER SIZE
DCC #5 277/480V, 3Ø, 4W 600A	350 MCM DBL WGS	BOTTOM	MAIN	(1)	600	500	3	FUSED SW	18,000
			12	(2)	50	15	3	0	
			13	(3)	50	15	3	0	
			14	(4)	50	15	3	-	
			SPACE	(5)	-	-	-	-	
			16	(6)	50	30	3	1	
			17	(7)	50	30	3	1	
			18	(8)	50	15	3	-	
			22	(9)	50	15	3	0	
			25	(10)	50	15	3	1	
			26	(11)	50	15	3	0	
			SPACE	(12)	-	-	-	-	
			24	(14)	400	350	3	-	
			29	(15)	100	20	3	-	
			31	(16)	100	30	3	-	
			LIGHTS	(17)	100	20	2	-	
			OUTSIDE LIGHTS	(18)	100	20	2	-	
			SPACE	(19)	50	20	3	1	
			11	(20)	50	15	3	-	
			FEEDER TRANS. SW.	(21)	100	60	3	-	
			AUTO TRANS. SW.	(22)	-	60	3	-	
			8	(23)	50	15	3	-	
			9	(24)	50	15	3	-	
			10	(25)	50	15	3	-	
			15 KVA TFMR	(26)	50	30	3	-	
			15 KVA TFMR	(27)	-	-	-	-	
			120/208 V, 3Ø, 4W PANEL	(28)	SEE DCC #5 PANELBOARD SCHEDULE				
			28	(29)	-	-	-	0	
			32	(30)	-	-	-	0	
				(31)	SUPERVISORY CONTROL SECTION				
			DCC#4 TFMR MAIN	(32)	50	30	3	-	

MOTOR, APPLIANCE AND EQUIPMENT SCHEDULE

NUMBER	EQUIPMENT	SIZE	VOLT. & Ø	LOCA.	CONTROL	CONT. LOCA.	STARTER SIZE	STARTER LOCA.	DISC SIZE & TYPE
1	BLOWER NO. 1	75	460-3	BLOWER BLDG	SEE SPEC	DCC #4	4(1)	DCC #4	-
2	BLOWER NO. 2	75	460-3	BLOWER BLDG	SEE SPEC	DCC #4	4(1)	DCC #4	-
3	BLOWER NO. 3	75	460-3	BLOWER BLDG	SEE SPEC	DCC #4	4(1)	DCC #4	-
4	PUMP NO. 1	100	460-3	BLOWER BLDG	SEE SPEC	DCC #4	4(1)	DCC #4	-
5	PUMP NO. 2	100	460-3	BLOWER BLDG	SEE SPEC	DCC #4	4(1)	DCC #4	-
6	PUMP NO. 3	100	460-3	BLOWER BLDG	SEE SPEC	DCC #4	4(1)	DCC #4	-
7	WET WELL DE-WATERING PUMP	9.4	460-3	BLOWER BLDG WET WELL	SEE SPEC	DCC #4	1	DCC #4	30A.3P.NF
8	BAR SCREEN #1	3	460-3	SCREEN BLDG UPPER LEVEL	SEE SPEC	DCC #5	SELF CONTAINED	-	30A.3P.NF
9	BAR SCREEN #2	3	460-3	SCREEN BLDG UPPER LEVEL	SEE SPEC	DCC #5	SELF CONTAINED	-	30A.3P.NF
10	BAR SCREEN #3	3	460-3	SCREEN BLDG UPPER LEVEL	SEE SPEC	DCC #5	SELF CONTAINED	-	30A.3P.NF
11	CONVEYOR	1HP	460-3	SCREEN BLDG UPPER LEVEL	SEE SPEC	DCC #5	0	AT CONVEYOR	30A.3P.NF
12	FERRIC CHLO-RIDE PUMP #1	2HP	460-3	SCREEN BLDG UPPER LEVEL	SEE SPEC	DCC #5	0	DCC #5	30A.3P.NF
13	FERRIC CHLO-RIDE PUMP #2	2HP	460-3	SCREEN BLDG UPPER LEVEL	SEE SPEC	DCC #5	0	DCC #5	30A.3P.NF
14	POLYMER MIXER	1-1/2	460-3	SCREEN BLDG LOWER LEVEL	SEE SPEC	AT UNIT	0	AT UNIT	30A.3P.NF
15	POLYMER METER PUMP	3HP	208-1	SCREEN BLDG LOWER LEVEL	SEE SPEC	DCC #5	0	AT UNIT	30A.3P.NF
16	POLYMER TRANSFER PUMP	7-1/2	460-3	SCREEN BLDG LOWER LEVEL	SEE SPEC	DCC #5	1	DCC #5	30A.3P.NF
17	BLOWER	.10	460-3	SCREEN BLDG LOWER LEVEL	SEE SPEC	DCC #5	1	DCC #5	30A.3P.NF
18	DILUTION WATER PUMP	3.0	460-3	SCREEN BLDG LOWER LEVEL	SEE SPEC	DCC #5	0	DCC #5	30A.3P.NF
19	SUMP PUMP	1/3	120-1	SCREEN BLDG LOWER LEVEL	FLOAT SW	AT UNIT	NONE	-	MTR. SW.
20	SUMP PUMP	1/3	120-1	SONIC MAN HOLE	FLOOR SW	ON PUMP	NONE	-	MTR. SW.
21	EFFLUENT SAMPLE PUMP	1/2	120-1	BLOWER BLDG	MS&P	DCC #4	-	-	TOGGLE SW.
22	VAC. PUMP	1/2	460-3	SCREEN BLDG	MS&P	DCC #5	0	DCC #5	30A.3P.NF
23	SAMPLER INFLUENT	1/3	120-1	SCREEN BLDG	SELF CONTAINED ()	-	-	-	MTR. SW.
24	HEATING COIL	220KW	480-3	SCREEN BLDG	10 STAGE STEP CONTROLLER	DCC #5	-	-	SELF CONTAINED
25	UNIT S-1 (SUPPLY #1)	5HP	480-3	SCREEN BLDG	TIME CLOCK () SEL. SW. SEE SPEC	DCC #5	1	DCC #5	30A.3P.NF
26	EXHAUST FAN E-1	3HP	480-3	SCREEN BLDG ROOF	INTERLOCK WITH MTR 25	DCC #5	0	DCC #5	30A.3P.NF
27	EXHAUST FAN E-2	1HP	480-3	PUMP AND BLOWER	REVERSE ACT STAT	DCC #4	0	DCC #4	30A.3P.NF
28	UNIT VENTI-LATOR	1/3HP	120-1	SCREEN BLDG OFFICE	SEE SPEC	DCC #5	0	DCC #5	30A.3P.NF
29	HEATING COIL	6KW	480-3	SCREEN BLDG OFFICE	3 STAGE STEP CONTROLLER	DCC #5	-	-	SELF CONTAINED
30	OIL PUMP	1/4	120-1	SCREEN BLDG	FLOAT SW.	DAY TANK	-	-	MTR. SW.
31	HEATING COIL	15.6KW	480-3	SCREEN BLDG LOWER	6 STAGE STEP CONTROLLER	DCC #5	-	-	SELF CONTAINED
32	UNIT VENTI-LATOR	1/3HP	120-1	SCREEN BLDG LOWER	SEE SPEC	DCC #5	0	DCC #5	30A.3P.NF
33	EFFLUENT SAMPLER	1/3	120-1	PUMP AND BLOWER BLDG	SELF CONTAINED	-	-	-	MS
34	EXHAUST FAN E-3	3	460-3	PUMP AND BLOWER BLDG	REVERSE ACT STAT	PUMP RM	1	DCC #4	30A.3P.NF
35	ELEC. UNIT HEATER	7.5KW	480-3	PUMP AND BLOWER BLDG	STAT	BLOWER ROOM	-	-	BY MFR
36	ELEC. UNIT HEATER	7.5KW	480-3	PUMP AND BLOWER BLDG	STAT	-	-	-	BY MFR
37	ELEC. UNIT HEATER	15KW	480-3	PUMP AND BLOWER BLDG	STAT	PUMP RM	-	-	BY MFR
38	CHLORINE EXH	2HP	460-3	CHLORINE BLDG	TIMER (2)	GARAGE	0	GARAGE	30A.3P.NF
39	SUPPLY FAN	1/3HP	120-1	GARAGE	M.S. AND PILOT	GARAGE	-	-	-

MOTOR NOTES
 (1) PROVIDE A REDUCED VOLTAGE CLOSED TRANSITION AUTOTRANSFORMER STARTER FOR THIS MOTOR.
 (2) TIMER SHALL BE INTERMATIC #8865 WITH OMITTING DEVICES. PROVIDE A WEATHERPROOF BYPASS SWITCH AT EXTERIOR OF CHLORINE ROOM.

SCHEDULE - LIGHTING FIXTURE TYPES

TYPE LETTER	FIXTURE TYPE	FLOOR	W/RAIL	H/D	MOUNTING	LAMPS	CONTROL MEDIA (LENS, LOUVER ETC)	MANUFACTURER'S CATALOG NUMBER	REMARKS
A	RLM		X		SURFACE	150 WATT A-21	STD. DOME REFLECTOR GLASSSTEEL DIFFUSER	SPERO #DOB-5166SD MILLER AC 1141 OR EQUAL	OUTLET BOX MOUNTING
A-1	RLM		X		STEM	150 WATT A-21	STD. DOME REFLECTOR GLASSSTEEL DIFFUSER	SPERO #DOB-5166SD MILLER AC 1141 OR EQUAL	
B	EXTERIOR			X	WALL BRACKET	175 WATT H37-22KC/OX	PRISMATIC GLASS HIGH IMPACT RESISTANCE	STONCO #532-175MM ART METAL MWBA OR EQUAL	BLACK FINISH 480 VOLT
B-1	EXTERIOR			X	WALL BRACKET	250 WATT H37-5KC/DX	PRISMATIC GLASS HIGH IMPACT RESISTANCE	STONCO #542-250MM ART METAL MW88	BLACK FINISH 480 VOLT SEE NOTE 1
C	STAIR			X	WALL MOUNTED	2-75 WATT	OPAL WHITE GLASS	HALO #2411-2 MARKSTONE #781 OR EQUAL	
D	AREA LIGHT			X	POST	250 WATT H37-5KC/DX	WHITE ACRYLIC PLASTIC	STERNER #BC36-250M 12.5A GE #C71660 08-35-112197-13 OR EQUAL	SEE NOTE 2
E	OMITTED								
F	KEYLESS		X		OUTLET BOX	1-150 WATT A21	NOME	BRYANT #5228 PES-37 OR EQUAL	W/WIREGUARD
G	HIGH BAY			X	OUTLET BOX	250 WATT H37-5KC/DX	SPECULAR HEX/CLEAR GLASS	WIDE LIGHT #11-257-SG-0D, #1000000000	480 VOLT
H	EXPLOSION PROFF		X		SURFACE	1-150 WATT A-21	PRISMATIC REFRACTOR	CROUSE HINDS EVA 1105 APPLETON AAC15506 OR EQUAL	SUITABLE FOR 1 GROUP D
J	2' X 4'	X			SURFACE	4-40 WATT	ACRYLIC-PLASTIC	GLOBE ILL #OYE-8152-4R, GUTH#AKY3885	120 VOLT
K	1' X 4'	X			SURFACE	2-40 WATT	ACRYLIC-PLASTIC	GLOBE ILL #OYE-8254-4R, GUTH#ACK3885	120 VOLT
L	EXTERIOR			X	CEILING	1-100 WATT E23-1/2 DX	CORNING C73	ART METAL M-3509-ITL, COLE # 1531	480 VOLT
M	1' X 4'	X			WALL	2-40 WATT	ACRYLIC PLASTIC	KEENE #CWB 240-B GUTH#AKY3885	120 VOLT

PANELBOARD SCHEDULE

PANEL NO.	BUS AND TYPE	MAIN LUGS		CIRCUIT BREAKERS				INT. AMPS RMS. SYM	MOUNTING	
		SIZE	LOCA.	QUAN.	FRAME SIZE	TRIP RATING	POLES			USE
DCC #4	120/208V, 3Ø, 4W, 100A MAIN	#2	BOTTOM	1	50	40	3	MAIN	10,000	IN DCC
				3	50	20	1	LGT. CCTS		
				5	50	20	1	RECEPT. CCTS		
				3	50	20	1	SPARES		
DCC #5	120/208V, 3Ø, 4W, 100A MAINS	#2	BOTTOM	1	100	60	3	MAIN	10,000	IN DCC
				3	50	20	1	LTG. CCTS.		
				9	50	20	1	RECEPT. CCTS.		
				4	50	20	1	MOTORS		
				4	50	20	1	SPARES		
				3	50	20	1	SUPERVISORY CONT		

- GENERAL NOTES:
- CIRCUIT NUMBERS SHOWN ON THESE DRAWINGS SHALL NOT NECESSARILY CORRESPOND TO ACTUAL CIRCUIT BREAKER NUMBERS.
 - VERIFY LOCATION OF ALL MOTORS WITH MECHANICAL PLANS BEFORE ROUGH-IN.
 - ADJUST MOUNTING HEIGHTS OF ALL OUTLETS IF REQUIRED SO AS NOT TO INTERFERE WITH OTHER EQUIPMENT. VERIFY CHANGES WITH ENGINEER.
 - IN MECHANICAL EQUIPMENT ROOMS, CONDUIT FOR LIGHTING FIXTURES MAY BE RUN EXPOSED.
 - VERIFY TYPE OF CEILING CONSTRUCTION FOR PROPER MOUNTING OF ALL RECESSED LIGHT FIXTURES.
 - INTERRUPTING RATINGS NOTED IN SCHEDULES SHALL APPLY TO ENTIRE PANELBOARD AND/OR SWITCHBOARD. ALL EQUIPMENT COMPRISING PANELS AND/OR SWITCHBOARDS SHALL EITHER BE RATED FOR SHOR CIRCUIT CURRENT NOTED OR BE SUITABLY PROTECTED FOR THE AVAILABLE SHORT CIRCUIT CURRENT.
 - LETTER THUS: "A" - INDICATES TYPE OF LIGHTING FIXTURES. REFER TO LIGHTING FIXTURE TYPES IN SPECIFICATIONS.

**CITY OF SUPERIOR, WISCONSIN
DEPARTMENT OF PUBLIC WORKS**

**PLANS FOR THE CONSTRUCTION OF
CONTRACT 2**

**PRELIMINARY TREATMENT IMPROVEMENTS
AT THE
MAIN WASTEWATER TREATMENT PLANT**

CITY OF SUPERIOR

HERBERT W. BERGSON
MAYOR

CONSOER TOWNSEND & ASSOCIATES

THOMAS L. NOERENBERG, P.E.
NO. E-23049

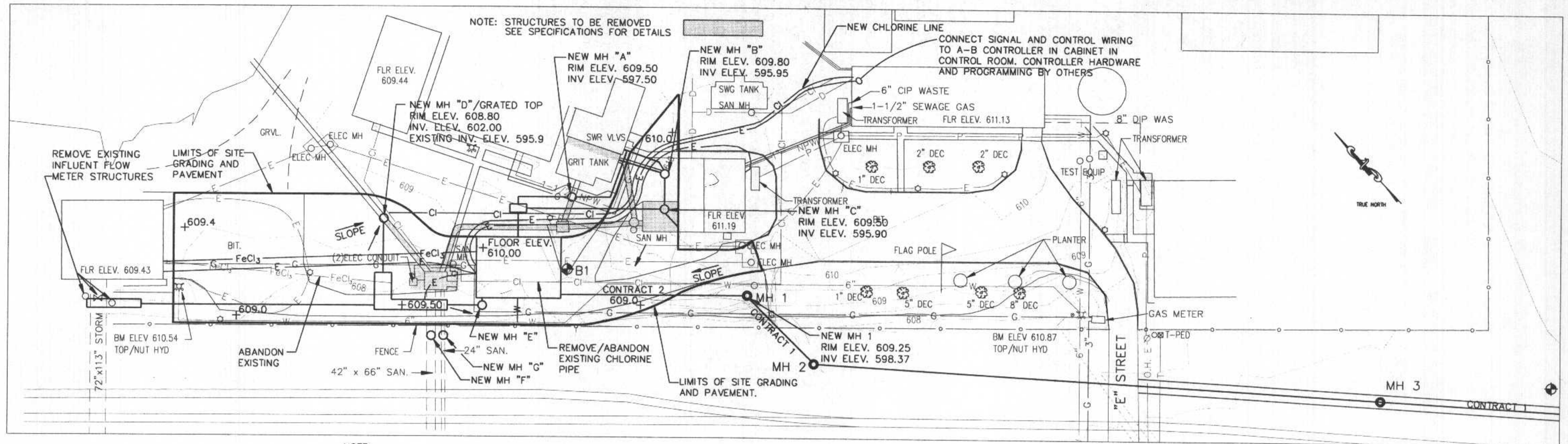
DEPT. OF PUBLIC WORKS

JEFF VITO
DIRECTOR

MARK DRAKE
SUPERINTENDENT

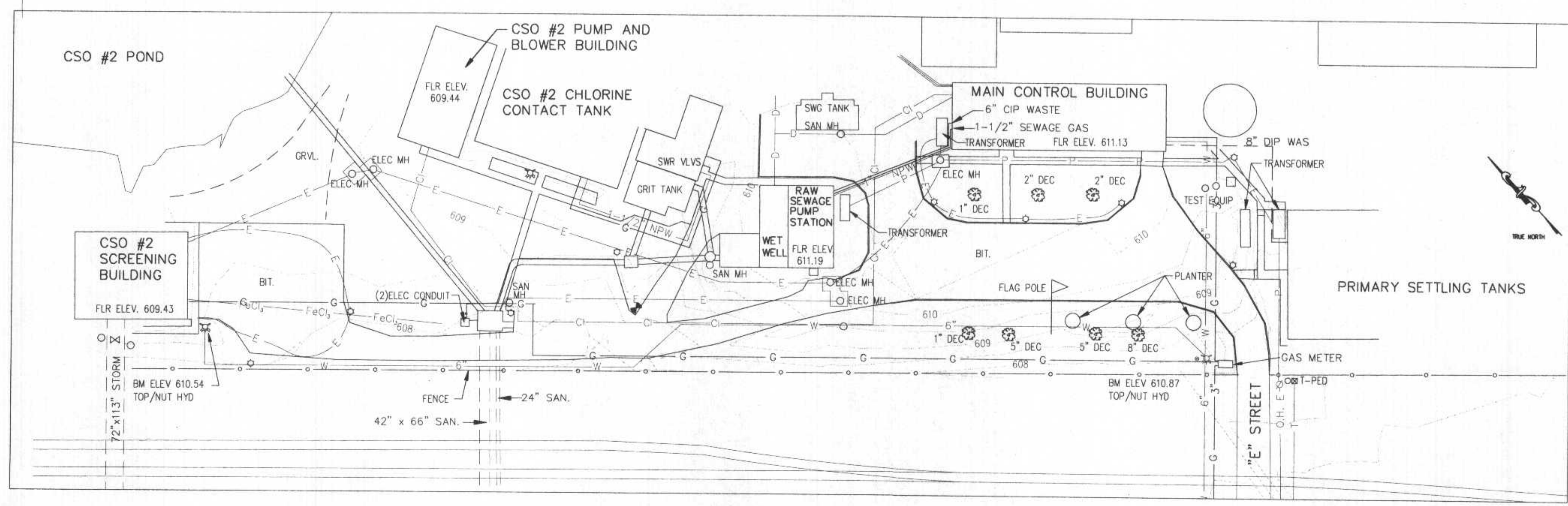
PRELIMINARY

JUN 17 1994



NOTE: CONSTRUCTION OF CONTRACT NO. 1 INCLUDES ALL PIPING AND STRUCTURES BETWEEN MANHOLE 1 AND DIVERSION STRUCTURE IN EAST 2ND STREET. CONTRACT NO. 2 WILL INCLUDE THE PIPING BETWEEN THE NEW SCREEN BUILDING AND MANHOLE 1 ON THE PLANT SITE.

PROPOSED SITE PLAN



EXISTING SITE PLAN

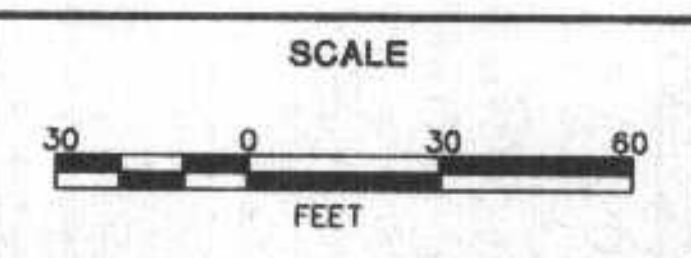
LEGEND

NON-POTABLE PLANT WATER	NPW
CAST IRON PIPE	C.I.P.
DUCTILE IRON PIPE	D.I.P.
WASTE ACTIVATED SLUDGE	WAS
WROUGHT IRON PIPE	W.I.
PRIMARY SERVICE DUCT	-P-
ELECTRICAL	-E-
CHLORINE LINE	-Cl-
WATER	-W-
GAS	-G-
FORCEMAIN SEWER	FM
SANITARY SEWER	SS
PROPOSED RELIEF SEWER	RLS
PROPOSED GRADE ELEVATION	+610.00
PROPOSED GAS	-G-

J:\8999-00\PLAN\ANTIS-15151.DWG. Printed on 6/18/1994 8:01 AM by ACD/1

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED TN
 DRAWN LED
 CHECKED
 DATE APRIL, 1994



DEPARTMENT OF PUBLIC WORKS
 CITY OF SUPERIOR, WISCONSIN

CONCOR ASSOCIATES
 ENGINEERING PLANNING MANAGEMENT
 2855 ANTHONY LANE SOUTH, SUITE 145
 MINNEAPOLIS, MN. 55418-3285

SUPERIOR WASTEWATER TREATMENT PLANT
 UNDERGROUND UTILITY SITE MAP

SHEET OF SHEETS
 RECORD MAP NO. CT&A PROJECT NO. 3899-00

CITY OF SUPERIOR, WISCONSIN DEPARTMENT OF PUBLIC WORKS

PLANS FOR THE CONSTRUCTION OF CONTRACT 5

OPERATIONS BUILDING MODIFICATION AND ADDITION

CITY OF SUPERIOR

CONSOER TOWNSEND ENVIRODYNE ENGINEERS

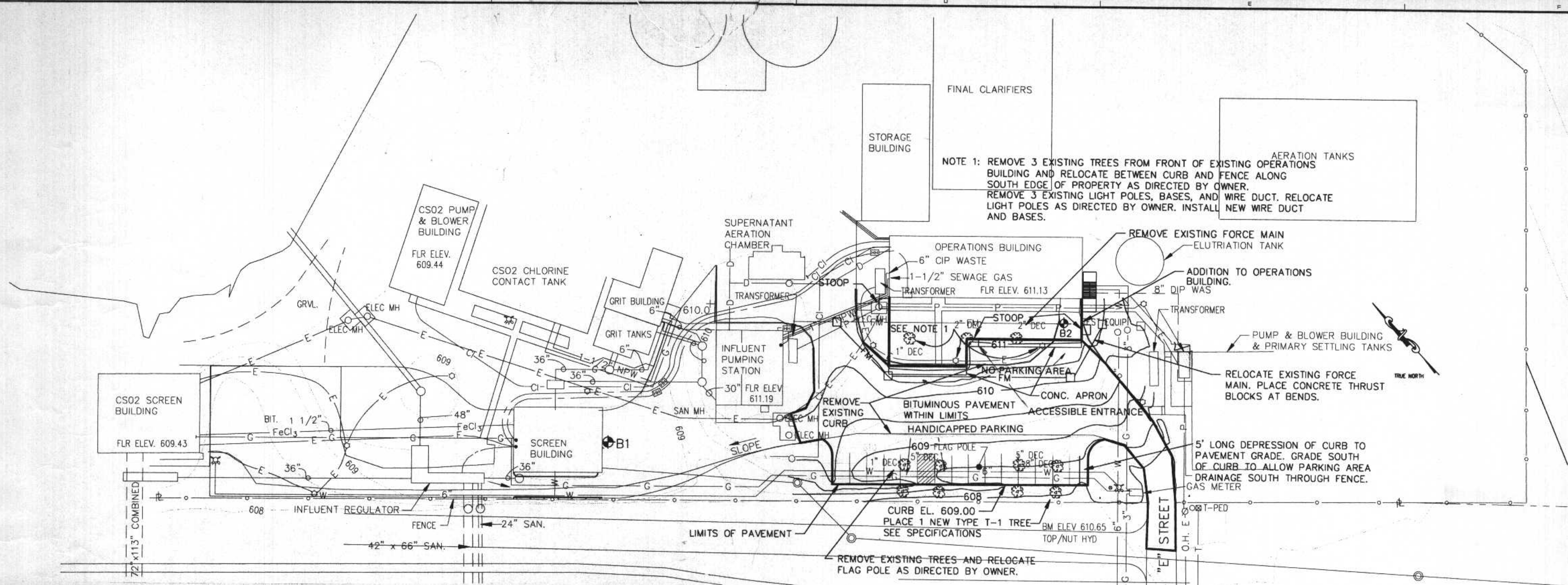
DEPT. OF PUBLIC WORKS

MARGARET CICCONE
MAYOR

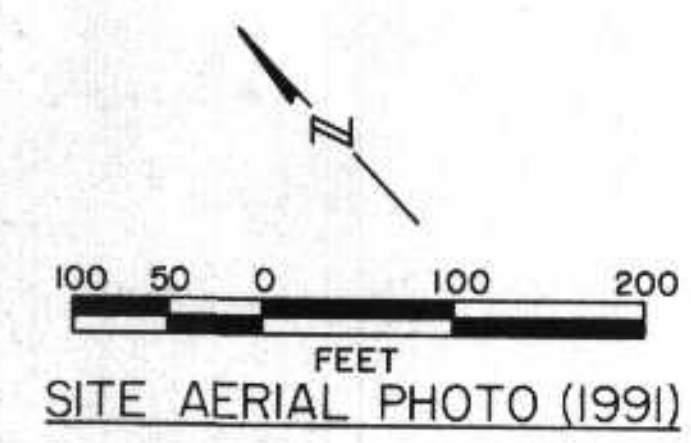
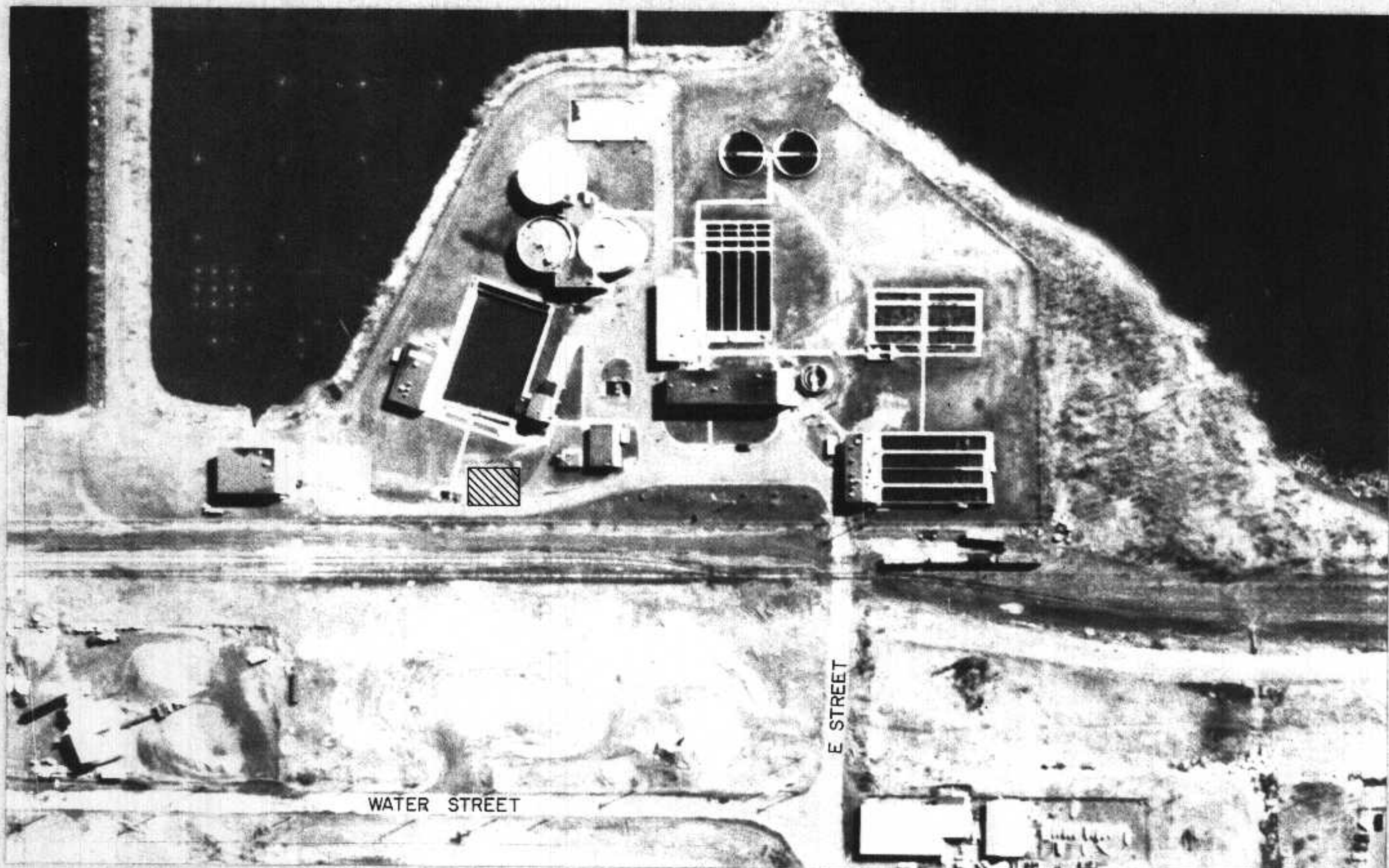
Jeff C. Cook
JEFF C. COOK, P.E.
NO. E-26997

JEFF VITO
DIRECTOR





NOTE 1: REMOVE 3 EXISTING TREES FROM FRONT OF EXISTING OPERATIONS BUILDING AND RELOCATE BETWEEN CURB AND FENCE ALONG SOUTH EDGE OF PROPERTY AS DIRECTED BY OWNER. REMOVE 3 EXISTING LIGHT POLES, BASES, AND WIRE DUCT. RELOCATE LIGHT POLES AS DIRECTED BY OWNER. INSTALL NEW WIRE DUCT AND BASES.



LEGEND

- NON-POTABLE PLANT WATER NPW
- CAST IRON PIPE C.I.P.
- DUCTILE IRON PIPE D.I.P.
- WASTE ACTIVATED SLUDGE WAS
- WROUGHT IRON PIPE W.I.
- PRIMARY SERVICE DUCT — P —
- ELECTRICAL — E —
- CHLORINE LINE — CI —
- WATER — W —
- GAS — G —
- DRAIN — D —
- FORCEMAIN SEWER — FM —
- SANITARY SEWER — — — —
- RELOCATED FORCE MAIN — FM —
- CONCRETE THRUST BLOCKS 2' x 2' x 3'H
- SOIL BORING LOCATION

M:\PROJECTS\3899\3899-05-PL\3899-05-PL SITE.DWG Plotted on 10/25/1995 @ 10:42 A.M. by LDUUBET

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED	TN	SCALE
DRAWN	LED	
CHECKED	JC	
DATE		

CTE ENGINEERS
CONSER TOWNSEND ENVIRONMENTAL ENGINEERS, INC.

LHB ENGINEERS & ARCHITECTS
DULUTH • MINNEAPOLIS
21 W. Superior St., Ste. 500, Duluth, MN 55802
TEL: 218/727-8416 • FAX: 218/727-8636

BETA ENGINEERING, INC.
ENGINEERS/PLANNERS
1420 PROVIDENCE HIGHWAY, NORWOOD, MA
6 BLACKSTONE VALLEY PLACE, LINCOLN, RI

**DEPARTMENT OF PUBLIC WORKS
CITY OF SUPERIOR, WISCONSIN**
OPERATION BUILDING MODIFICATION AND ADDITION
SITE PLAN

SHEET	G-2	OF	2	SHEETS
PROJECT NO.	3899-05			

CITY OF SUPERIOR

DEPARTMENT OF PUBLIC WORKS

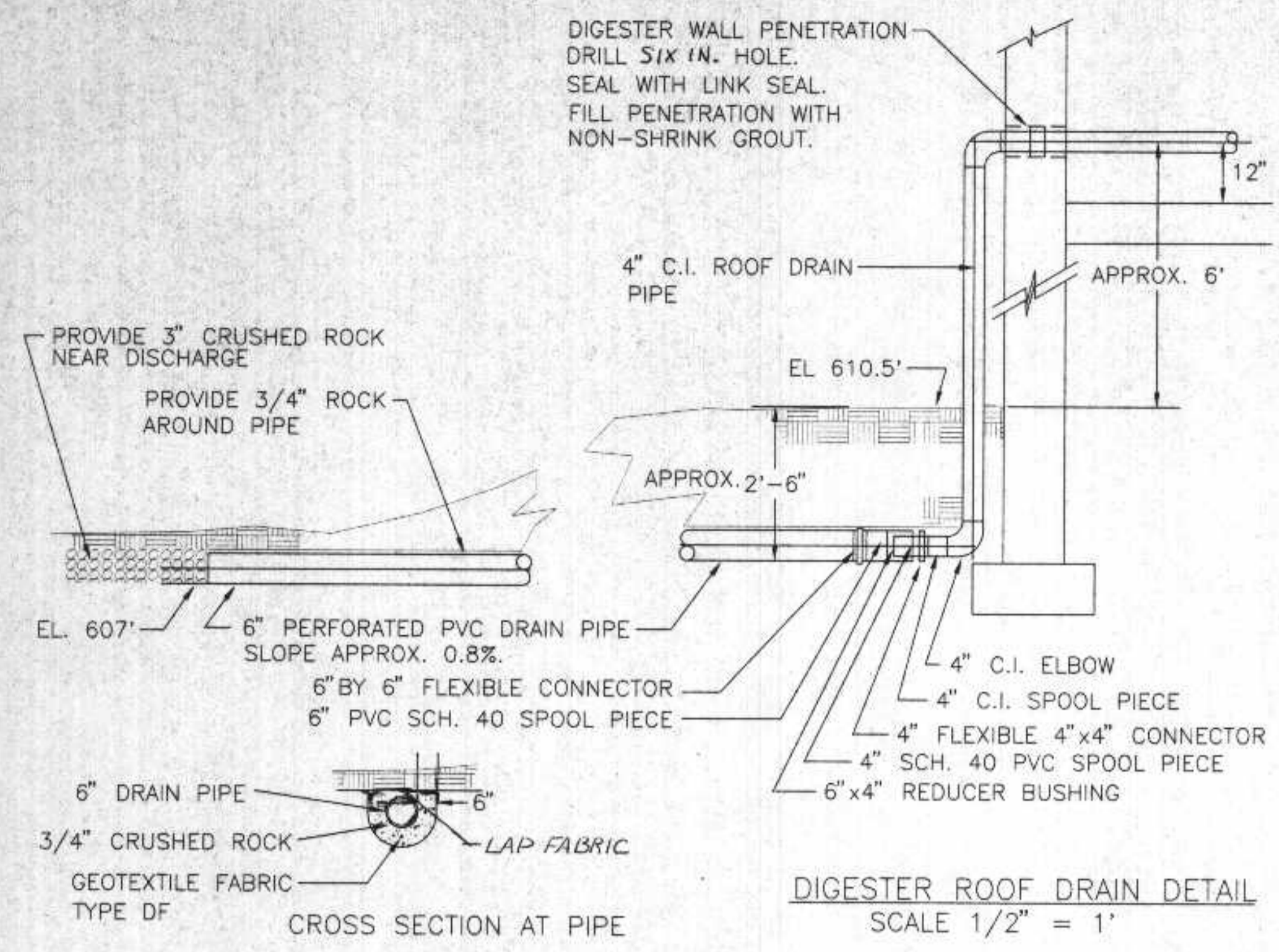
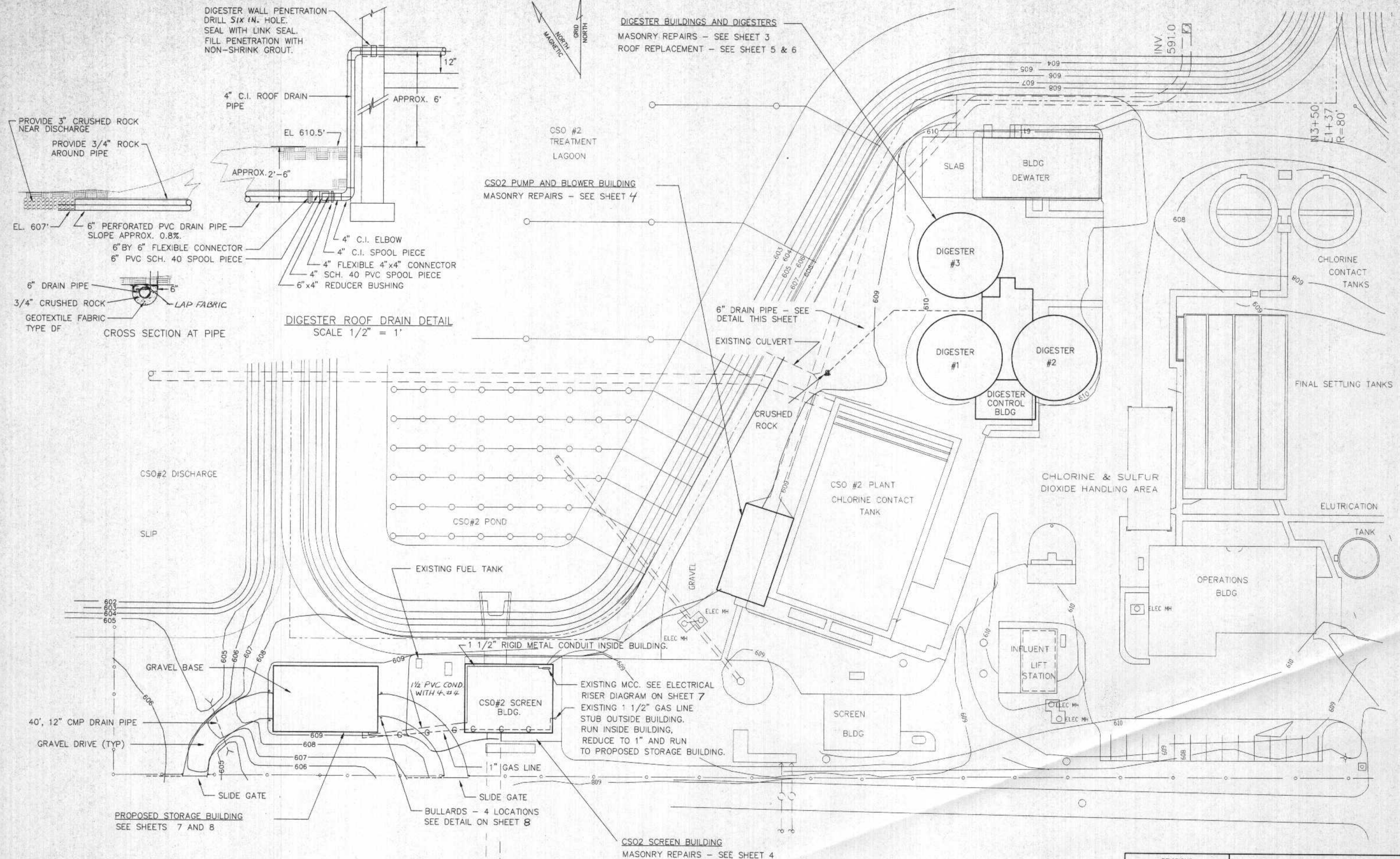
WWTP STORAGE AND BUILDING IMPROVEMENTS

JUNE, 1998

BUILDING IMPROVEMENT SHEETS

<u>SHEET NO.</u>	<u>TITLE</u>
1	COVER SHEET
2	SITE PLAN
3	MASONRY RENOVATION - DIGESTERS AND DIGESTER BUILDINGS
4	MASONRY RENOVATION - CS02 SCREEN AND PUMP BUILDINGS
5	ROOF REPLACEMENT PLAN - DIGESTER BUILDINGS
6	ROOF DRAINAGE PLAN - DIGESTER BUILDINGS
7	STORAGE BUILDING PLAN
8	STORAGE BUILDING FOUNDATION

PREPARED BY:
RMA ENGINEERING COMPANY
DULUTH, MN.



DIGESTER BUILDINGS AND DIGESTERS
 MASONRY REPAIRS - SEE SHEET 3
 ROOF REPLACEMENT - SEE SHEET 5 & 6

CSO2 PUMP AND BLOWER BUILDING
 MASONRY REPAIRS - SEE SHEET 4

EXISTING MCC. SEE ELECTRICAL
 RISER DIAGRAM ON SHEET 7
 EXISTING 1 1/2" GAS LINE
 STUB OUTSIDE BUILDING.
 RUN INSIDE BUILDING,
 REDUCE TO 1" AND RUN
 TO PROPOSED STORAGE BUILDING.

CSO2 SCREEN BUILDING
 MASONRY REPAIRS - SEE SHEET 4

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED
 BY ME, OR UNDER MY DIRECT SUPERVISION, AND I
 AM A DULY REGISTERED PROFESSIONAL ENGINEER
 UNDER THE LAWS OF THE STATE OF WISCONSIN.

DATE: _____ REG. NO.: _____

REVISIONS		
NO.	BY	DATE

DESIGNED BY <i>RAM</i>		SCALE
DRAWN BY <i>DMS</i>		1" = 30'
CHECKED BY	CAD FILE	DATE
APPROVED BY		SHEET 2 of 8

WWTP SITE PLAN