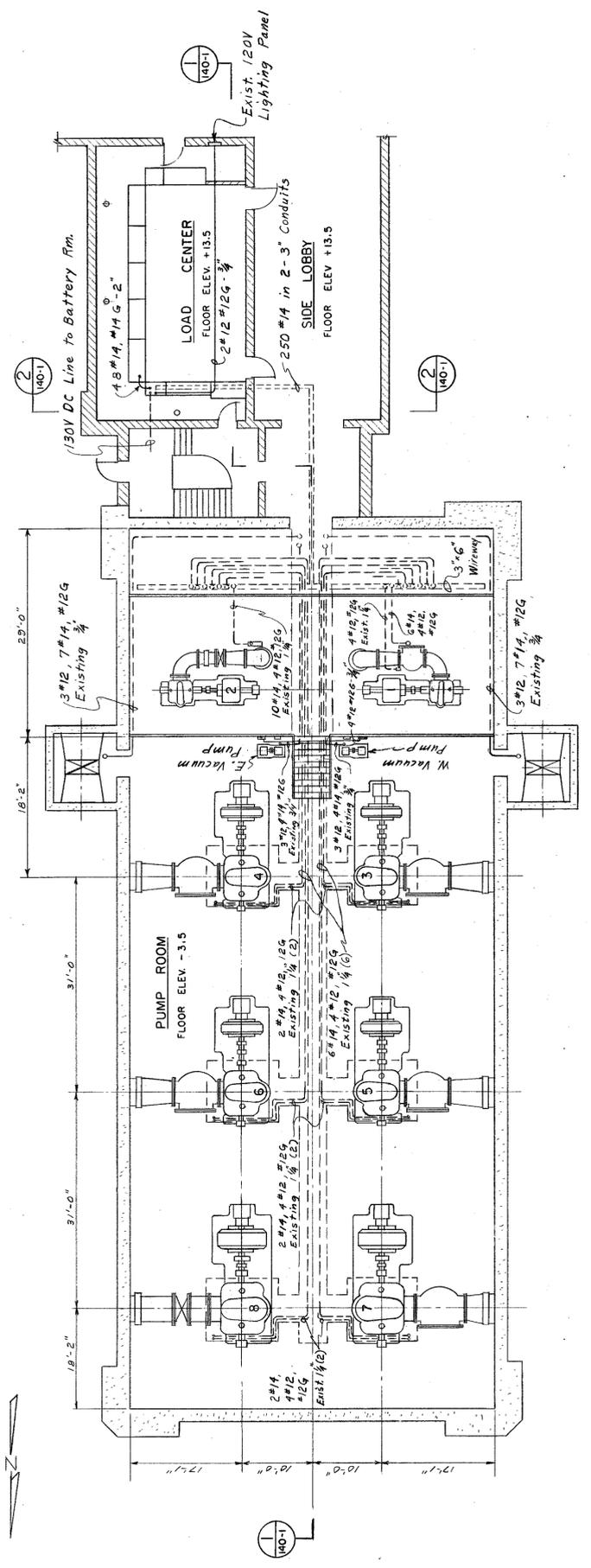


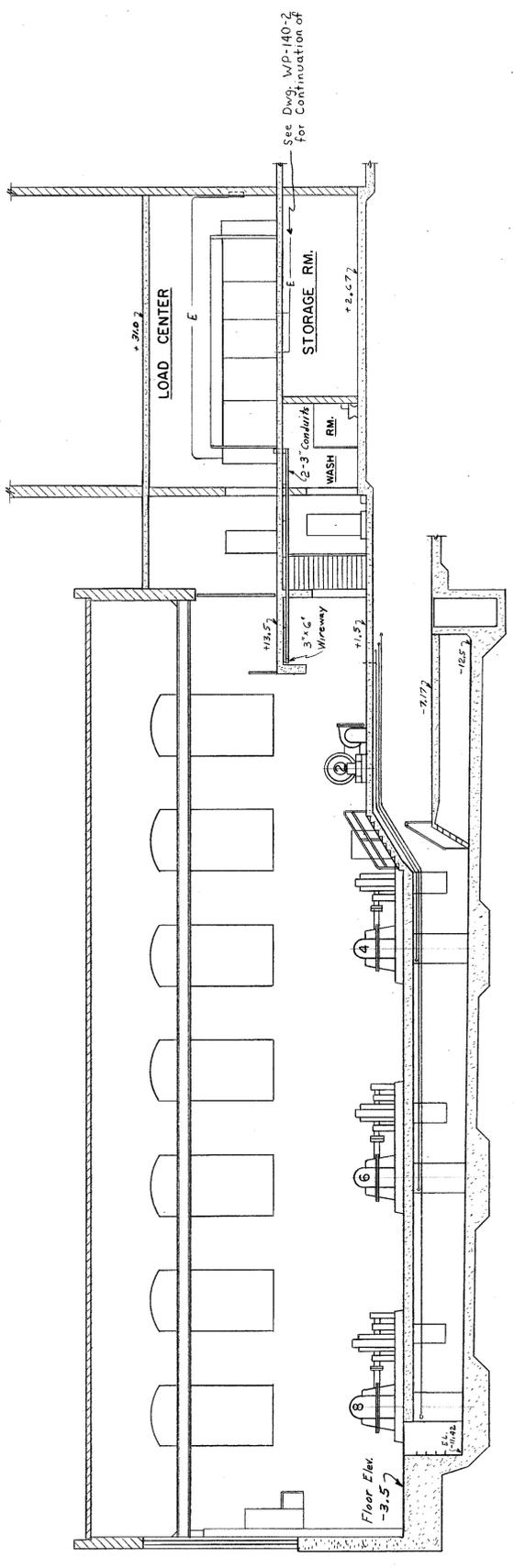
REV. C REVERSED 72" PIPING / LOWERE 72" & ADDED EFF. PROFILE KLH 9/23/97
 REV. B REVISED PLAN PER B&V DRAWING DATED 7/25/97 KLH 8/10/97
 REV. A REVISED PLAN PER B&V DRAWING DATED 7/10/97 KLH 7/22/97



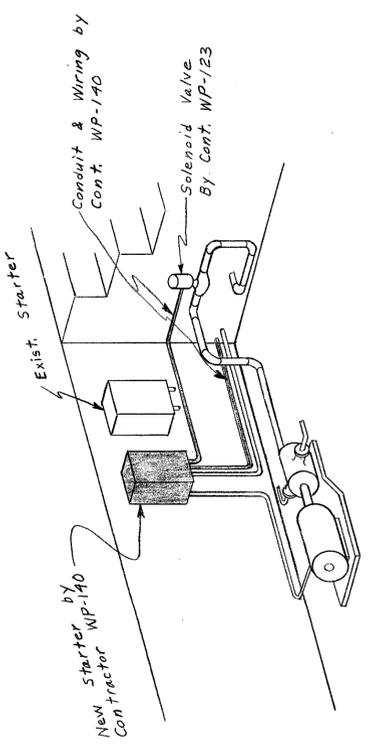
CRETEX PRESSURE PIPE, INC.	
JOB NAME: MILWAUKEE, WI	JOB NO.: SB-97-18
LINWOOD PURIFICATION PLANT YARD PIPING LAYOUT	
SCALE: 1" = 20'	DATE: 7/22/97
DRAWN BY: KLH	APP. BY: KLH
DRAWING NO.: SB-97-18-D18	REV.: C



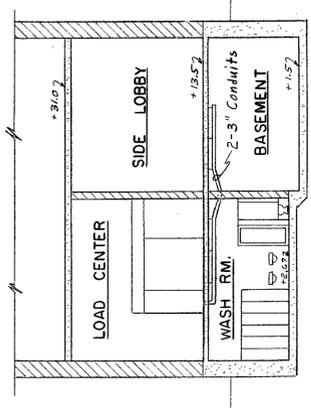
PLAN - PUMP ROOM & CONTROL CENTER
SCALE 3/32" = 1'-0"



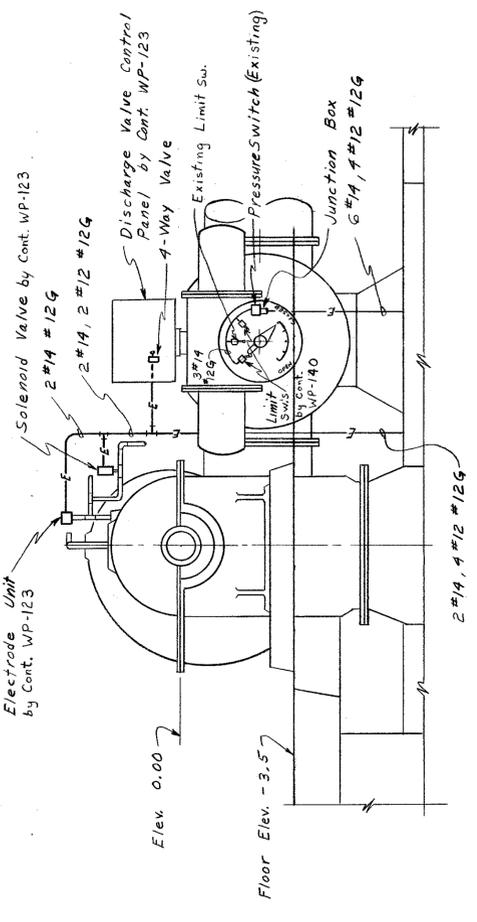
SECTION 1
SCALE 3/32" = 1'-0"



EAST VACUUM PUMP
WEST PUMP OPPOSITE HAND
N.T.S.



SECTION 2
SCALE 3/32" = 1'-0"



TYPICAL PUMP SECTION
SCALE 3/8" = 1'-0"

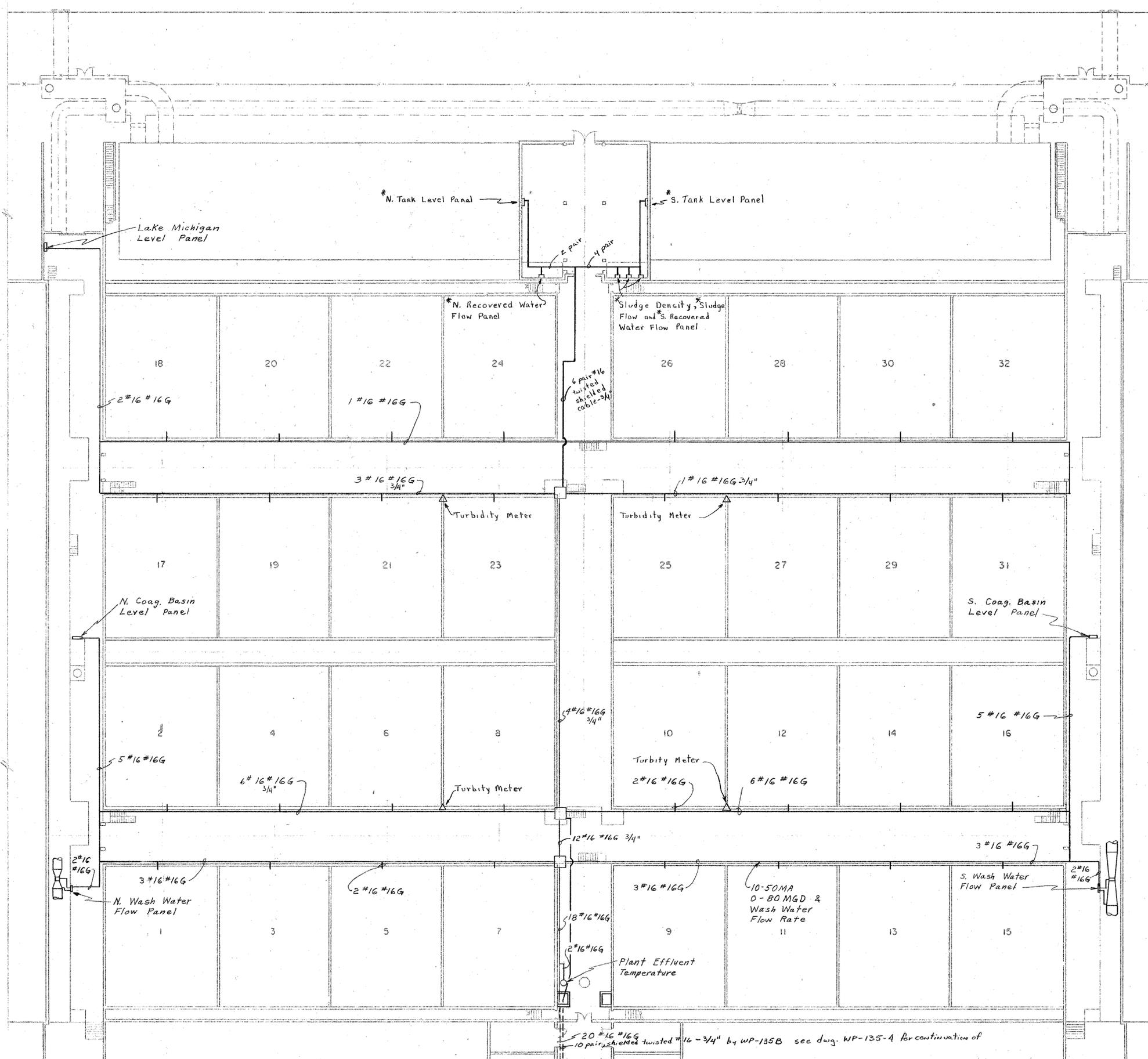
WATER ENGINEERING DIVISION
BUREAU OF UTILITIES
MILWAUKEE WATER WORKS
DEPARTMENT OF PUBLIC WORKS

LINWOOD PURIFICATION PLANT
PUMP ROOM CONTROL WIRING
TO LOAD CENTER

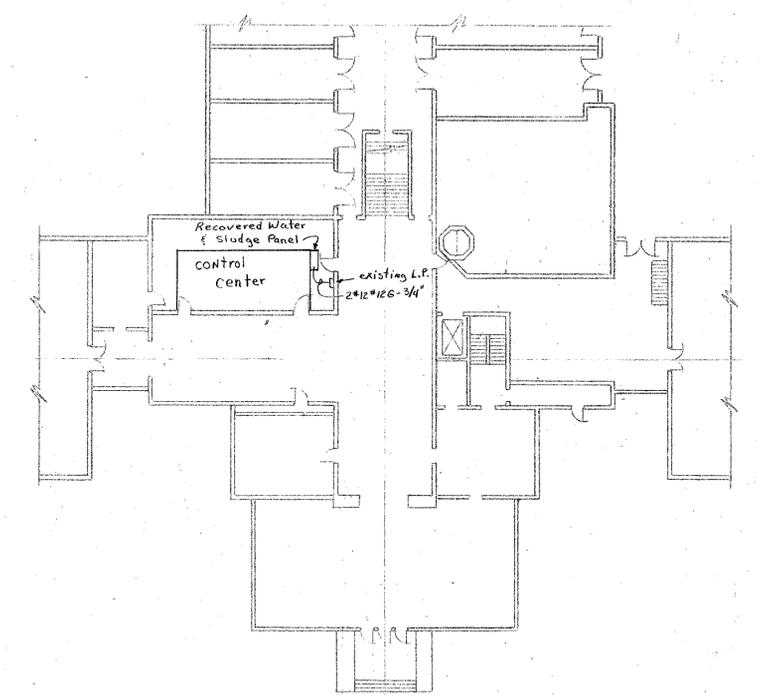
APPROVED: *[Signature]*
DESIGNED BY: A.E.H.
DRAWN BY: W.F.L.
CHECKED BY: *[Signature]*

DATE: 05-15-77
SCALE: 3/32" = 1'-0"
FILE: 3-11-20 DRWG. WP-140-1

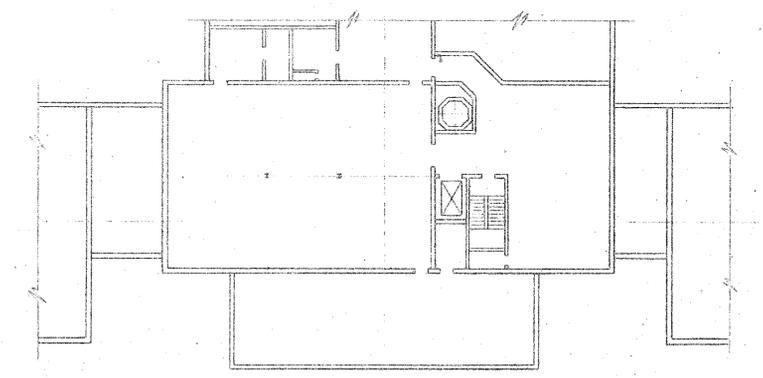




PLAN - FILTER BLDG.
BELOW ELEV. 17.50



PLAN - CONN. BLDG. & CHEM. BLDG.
BELOW ELEV. 17.50



PLAN - CHEM. BLDG.
FLOOR ELEV. 31.00



WATER ENGINEERING DIVISION
BUREAU OF ENGINEERS
MILWAUKEE WATER WORKS
DEPARTMENT OF PUBLIC WORKS

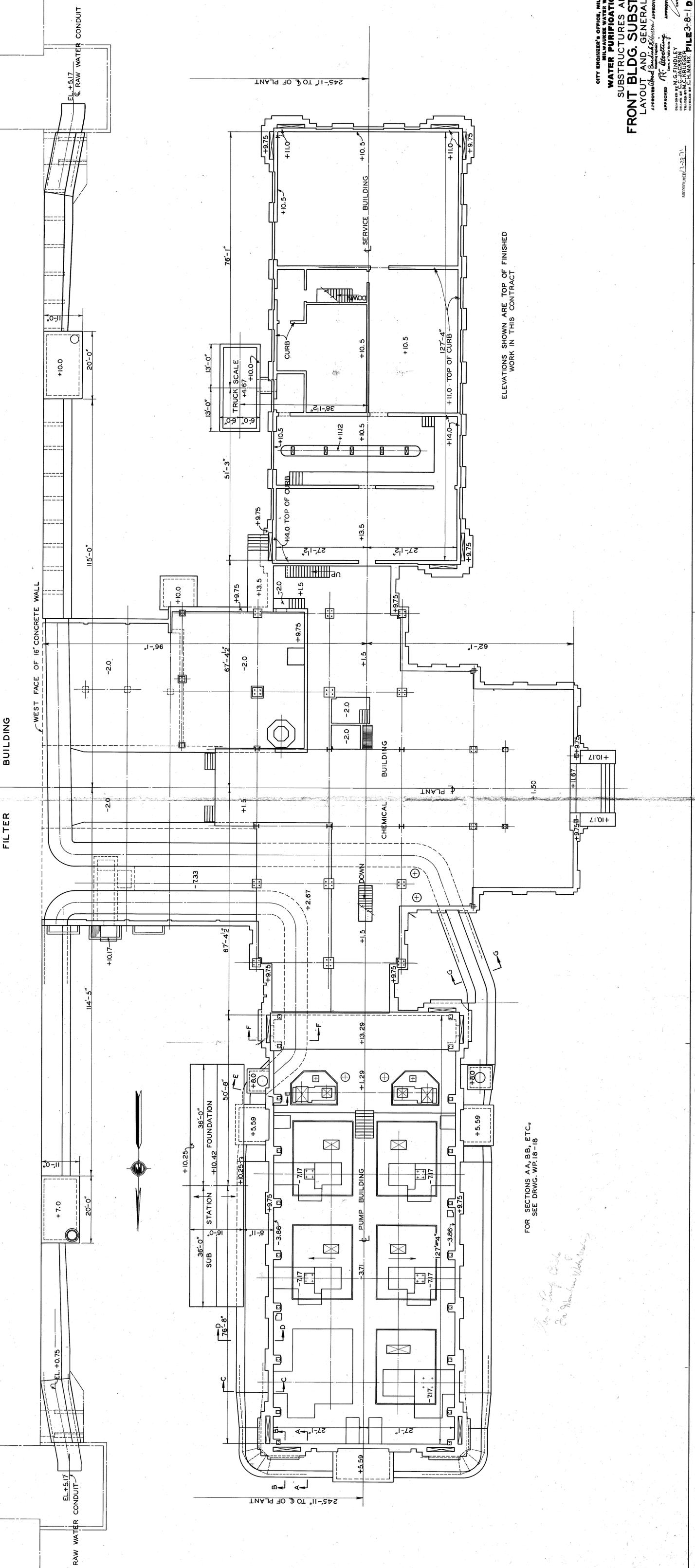
LINWOOD PURIFICATION PLANT
FILTER BUILDING
SIGNAL WIRING

APPROVED: *Joseph P. Karol* ACT. PLANT DESIGN ENGINEER
APPROVED: *Edwin J. Jorgensen* CITY ENGINEER
APPROVED: *James P. Lamm* SPC. DEPUTY COMMISSIONER OF PUBLIC WORKS

DESIGNED BY: A.E.H.
DRAWN BY: H.B.L.
TRACED BY: N.P.A.
CHECKED BY: A.E.H. / H.H.K.

DATE: Sept. 30, 74
SCALE: 1" = 20'-0"
FILE: 3-11-19
DRWG. WP-140-2

MICROFILMED 5-18-78



FILTER BUILDING

BUILDING

WEST FACE OF 16' CONCRETE WALL

EL. +5.17
RAW WATER CONDUIT

EL. +0.75
RAW WATER CONDUIT

245'-11" TO C. OF PLANT

245'-11" TO C. OF PLANT

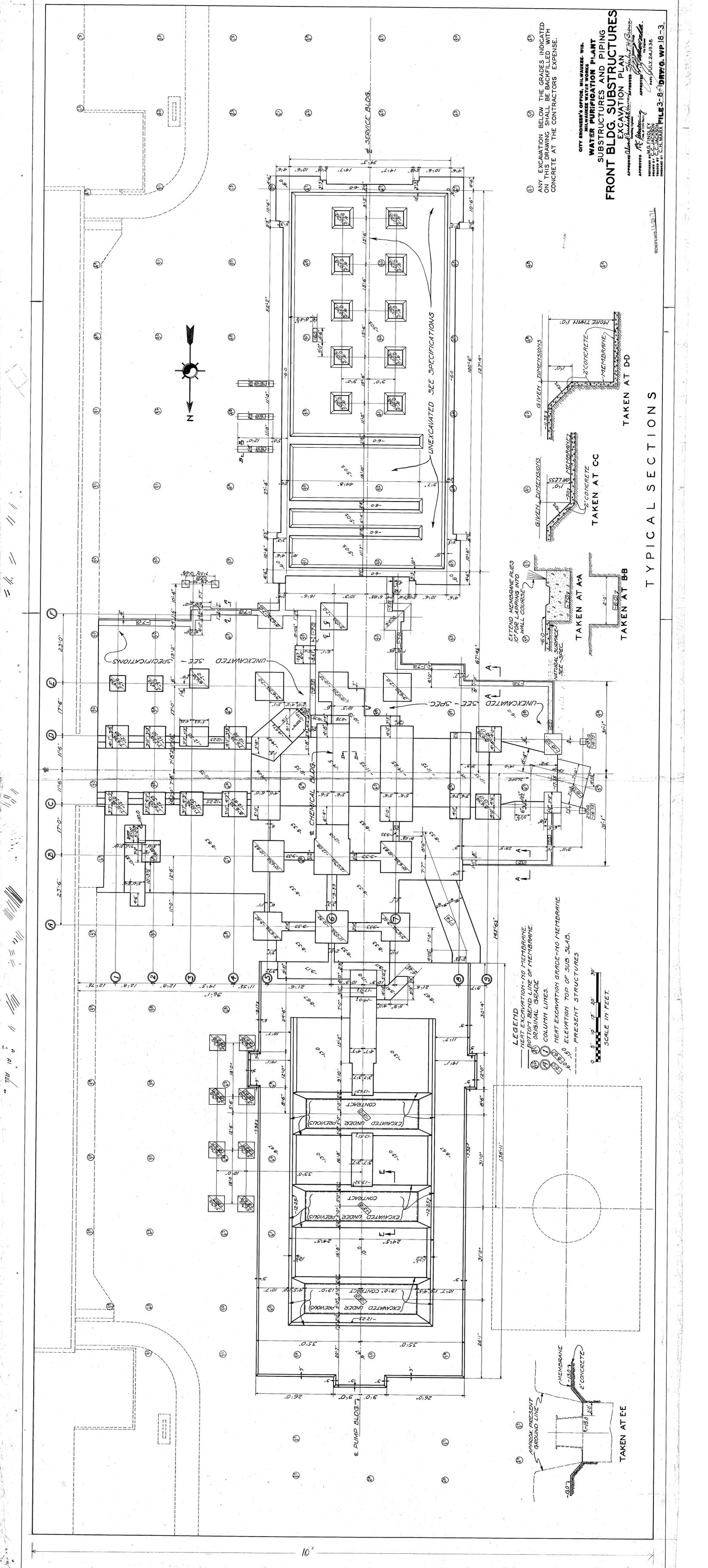
ELEVATIONS SHOWN ARE TOP OF FINISHED WORK IN THIS CONTRACT

FOR SECTIONS AA, BB, ETC., SEE DRWG. WP. 18-15

Handwritten notes:
 Plan of Pump Bldg.
 See Milwaukee Water Works

CITY ENGINEER'S OFFICE, MILWAUKEE, WIS.
 MILWAUKEE WATER WORKS
WATER PURIFICATION PLANT
SUBSTRUCTURES AND PIPING
FRONT BLDG. SUBSTRUCTURES
LAYOUT AND GENERAL DIMENSIONS
 APPROVED: *[Signature]*
 DRAWN BY: M. G. FINLEY
 CHECKED BY: J. C. JOHNSON
 DATE: JULY 24, 1936
 FILED BY: C. H. WATKINS
 DRAWING NO. WP 18-2

MICROFILMED 7-28-71

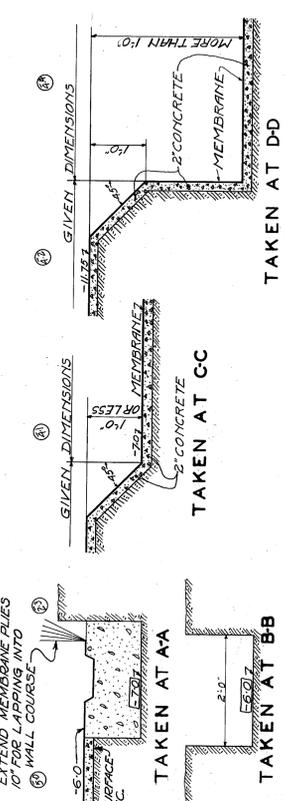


ANY EXCAVATION BELOW THE GRADES INDICATED ON THIS DRAWING SHALL BE BACKFILLED WITH CONCRETE AT THE CONTRACTORS EXPENSE.

FRONT BLDG. SUBSTRUCTURES AND PIPING EXCAVATION PLAN

CITY ENGINEER'S OFFICE, MILWAUKEE, WIS.
MILWAUKEE WATER WORKS

APPROVED: *[Signature]* DATE: JULY 24, 1938
 DESIGNED BY: G. S. FANDEL
 CHECKED BY: C. E. JACKSON
 DRAWN BY: C. E. JACKSON
 FILE NO. 3-8-18 DRWG. WP 18-3



LEGEND

- NEAR EXCAVATION - NO MEMBRANE.
- BOTTOM BEND LINE OF MEMBRANE.
- ORIGINAL GRADE.
- (A) COLUMN LINES.
- (B) NEAR EXCAVATION GRADE - NO MEMBRANE.
- (C) ELEVATION TOP OF SUB SLAB.
- (D) PRESENT STRUCTURES.



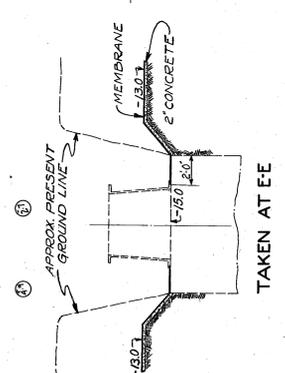
TYPICAL SECTIONS

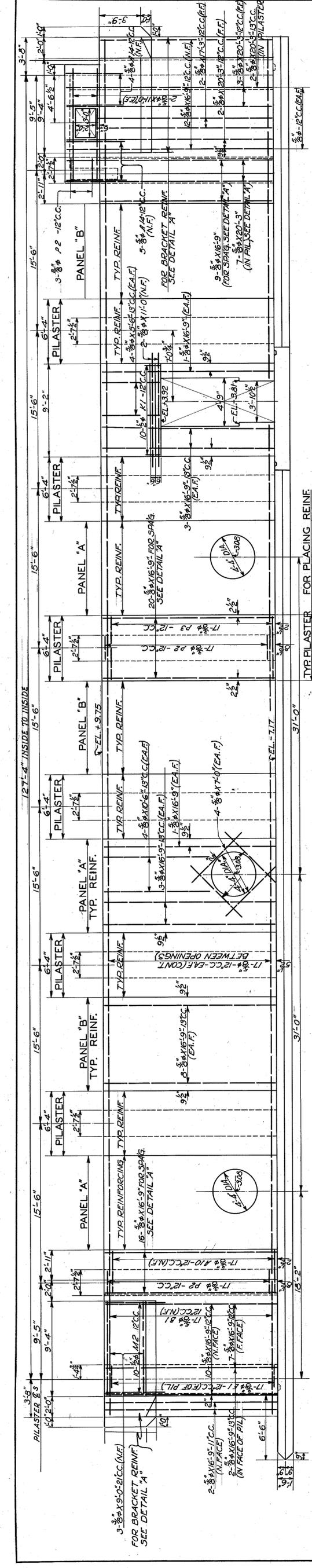
TAKEN AT DD

TAKEN AT CC

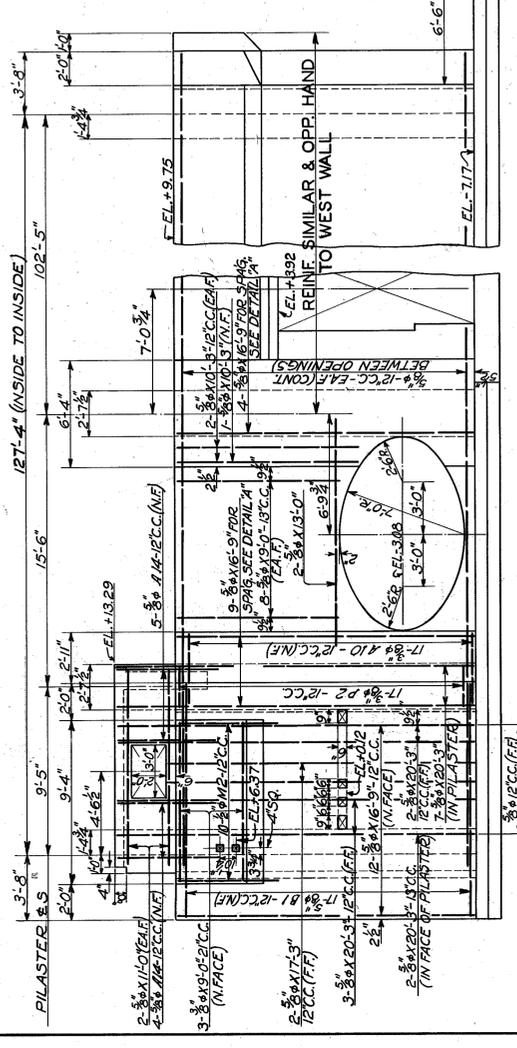
TAKEN AT AA

TAKEN AT BB

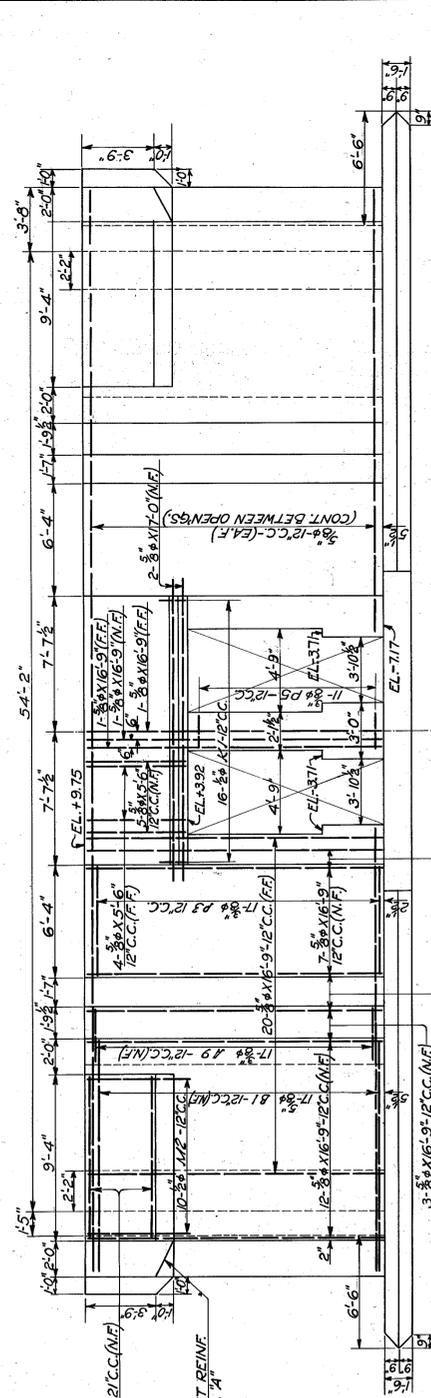




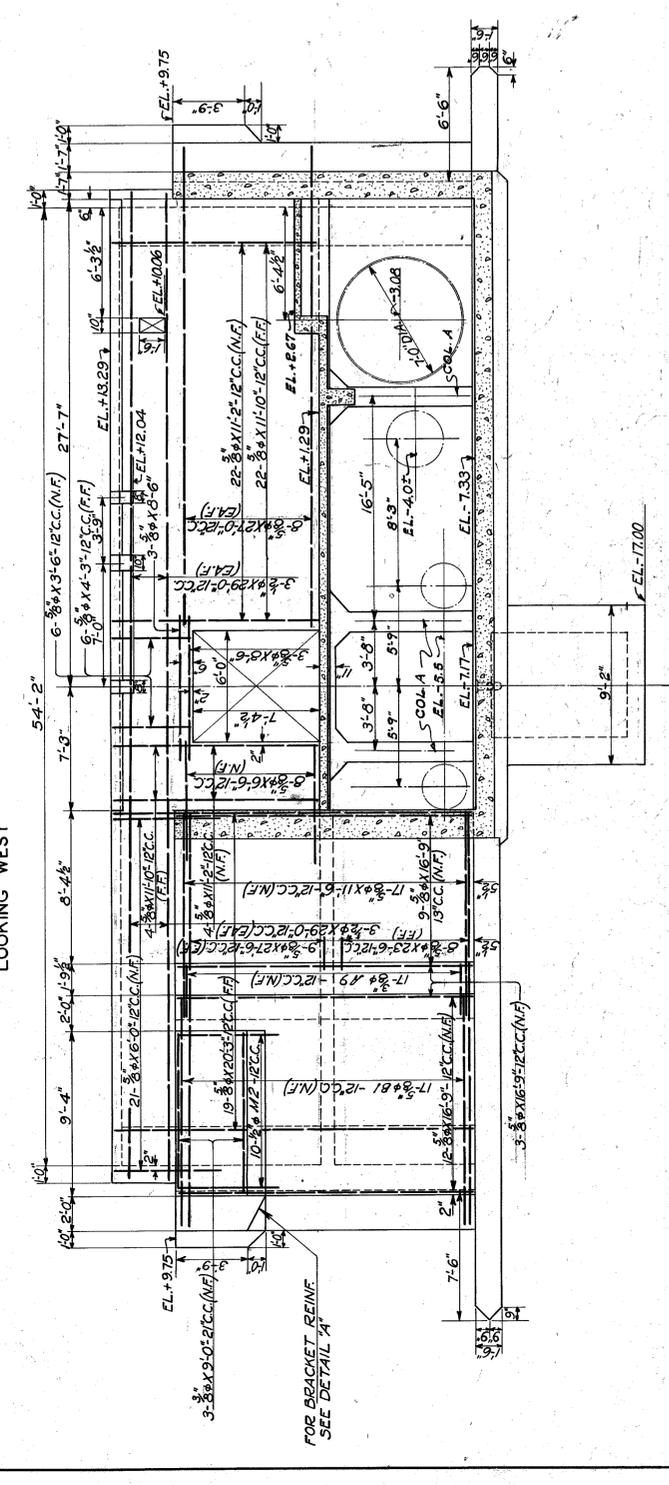
WEST WALL ELEVATION
LOOKING EAST



EAST WALL ELEVATION
LOOKING WEST



NORTH WALL ELEVATION
LOOKING SOUTH



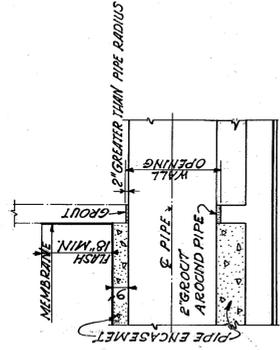
SOUTH WALL ELEVATION
LOOKING NORTH

NOTE:—
PLACE ALL WALL STEEL (C DIMENSIONS)
2" FROM FACE; ALL SLAB STEEL 1/2" FROM
SURFACE UNLESS OTHERWISE NOTED.
FOR SECTIONS SEE DRWG. WP-18-6.

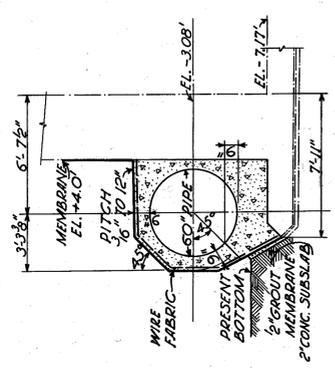
CITY ENGINEER'S OFFICE, MILWAUKEE, WIS.
MILWAUKEE WATER WORKS
WATER PURIFICATION PLANT
SUBSTRUCTURES AND PIPING
PUMP BUILDING
WALL ELEVATIONS

APPROVED [Signature]
DESIGNED BY M.G. FINDLEY
DRAWN BY A.W. CLENEY
CHECKED BY B.O. ERNSTEY
DATE: JULY 15, 1936.
FILE 3-8-1-DRWG. WP-18-5

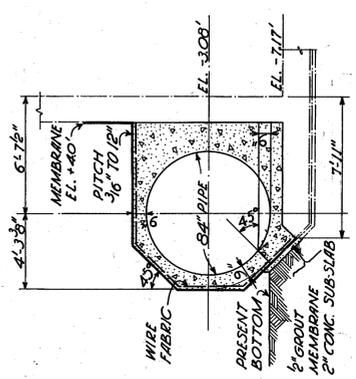
SCALE IN FEET
0 1 2 3 4 6
MICROFILMED 17-28-71



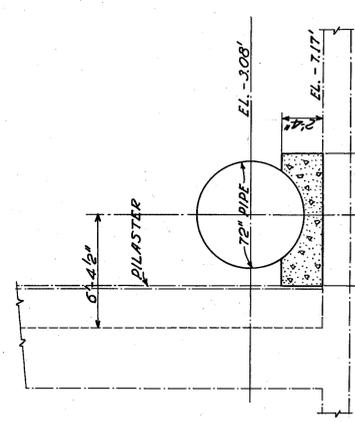
TYPICAL WALL OPENING



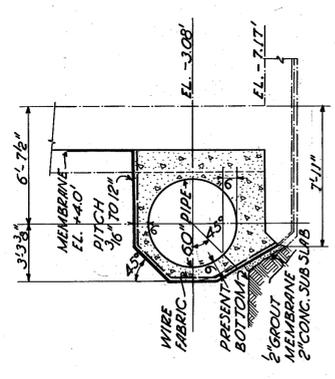
SECTION 'BB'



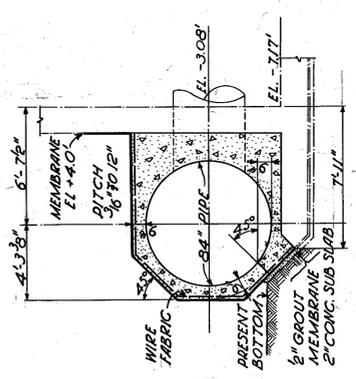
SECTION 'DD'



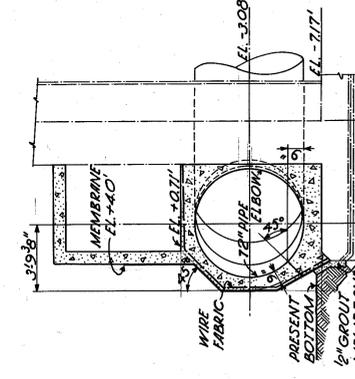
SECTION 'FF'



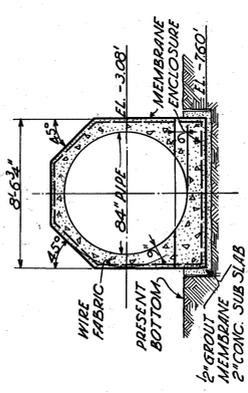
SECTION 'AA'



SECTION 'CC'



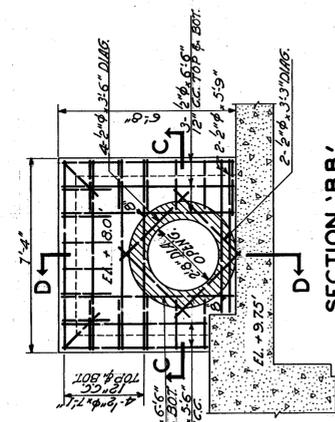
SECTION 'EE'



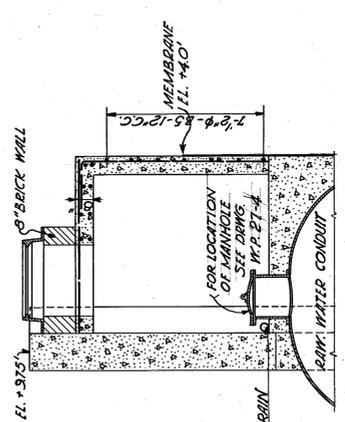
SECTION 'GG'

NOTE:-
WIRE FABRIC 4" x 16" NO. 7 (LONG)
NO. 11 (TRANS) 30# PER 100 SQ. FT.
FOR LOCATION OF PIPE ENCAS-
EMENT SECTIONS SEE DRWG. WP 18-2.

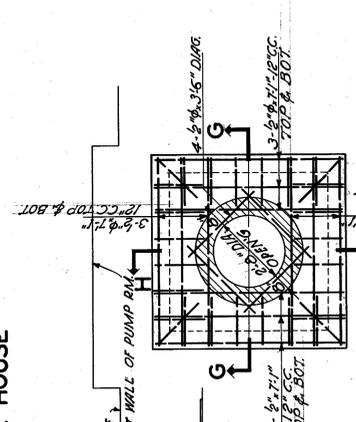
PIPE ENCASUREMENT



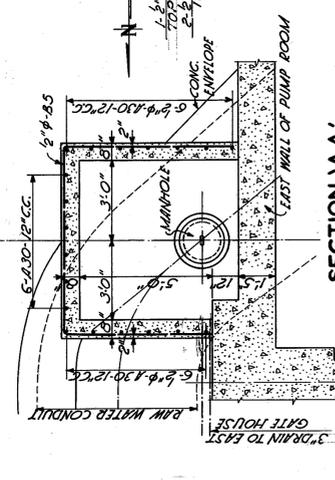
SECTION 'BB'



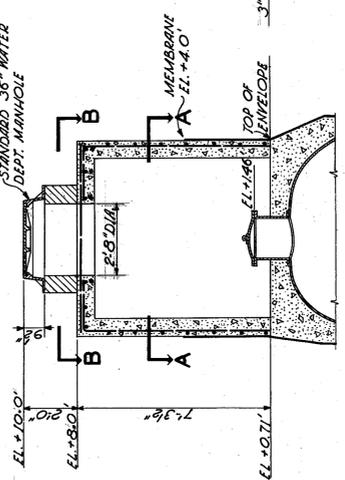
SECTION 'DD'



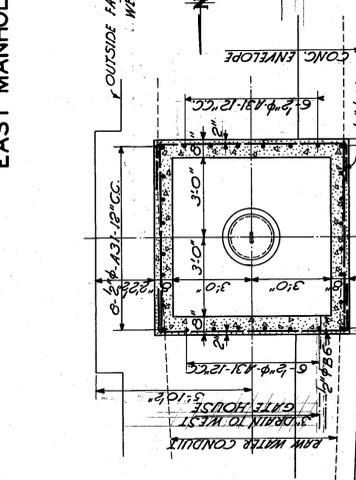
SECTION 'FF'



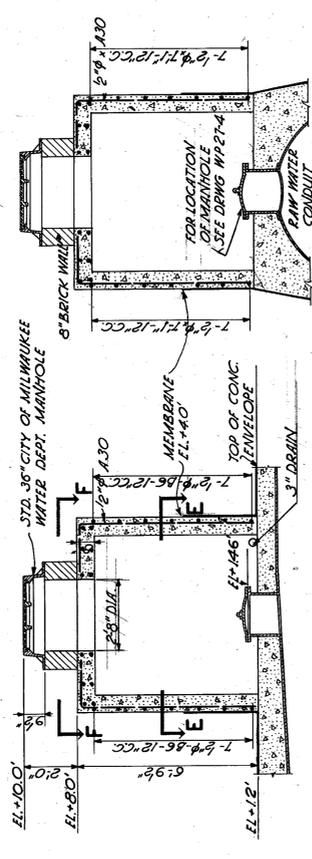
SECTION 'AA'



SECTION 'CC'



SECTION 'EE'



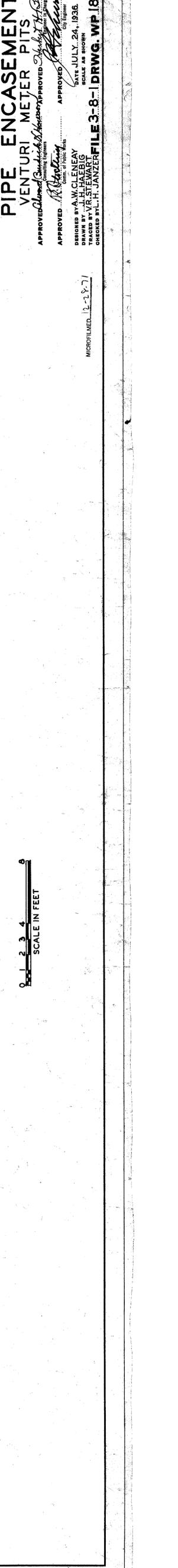
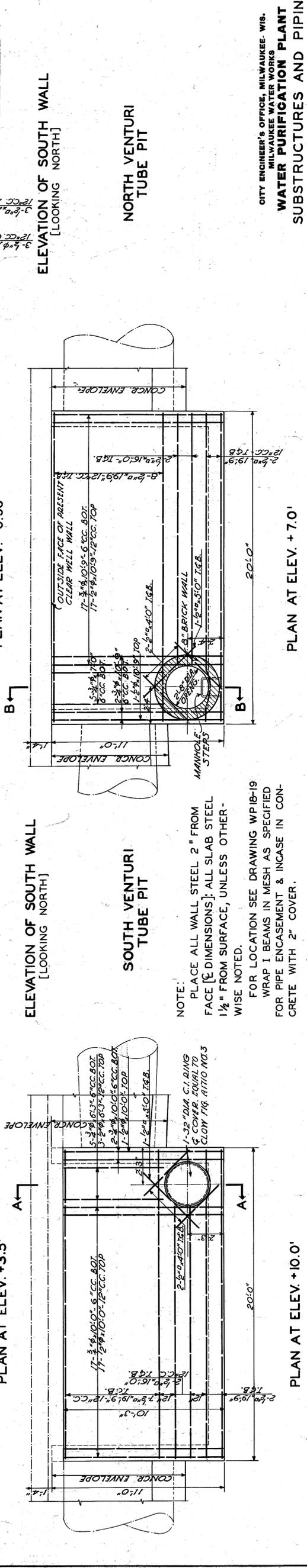
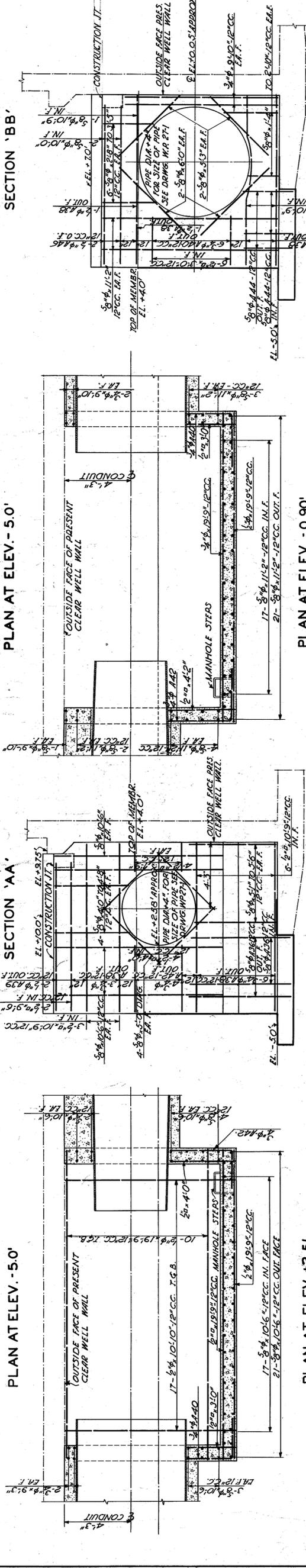
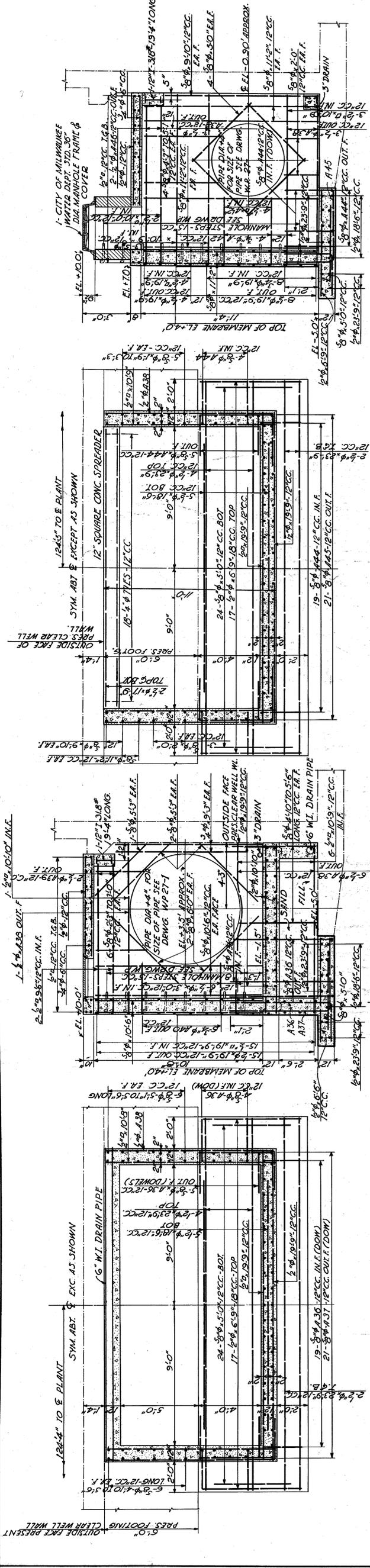
SECTION 'GG'

EAST MANHOLE HOUSE



WEST MANHOLE HOUSE

14-TOPSET

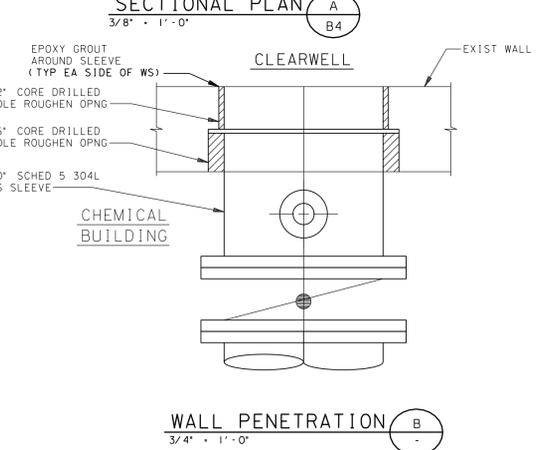
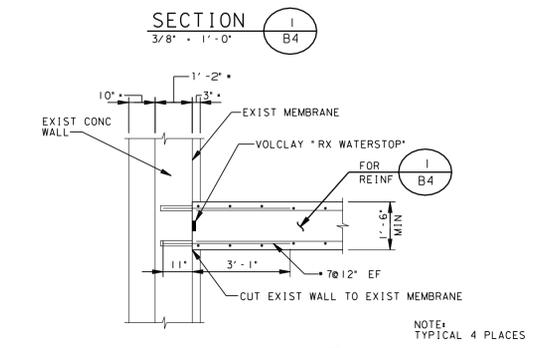
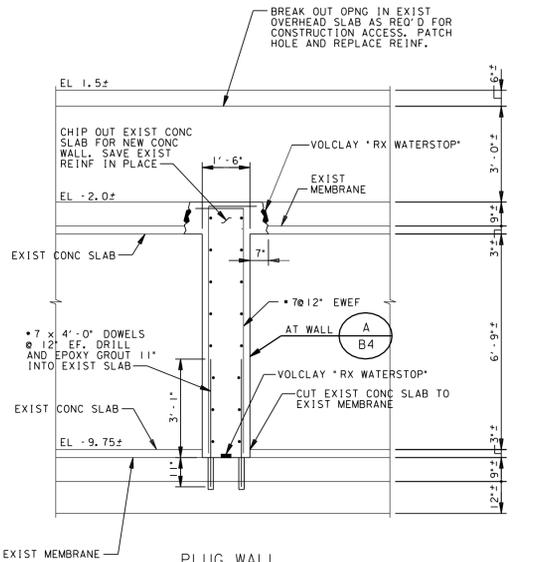
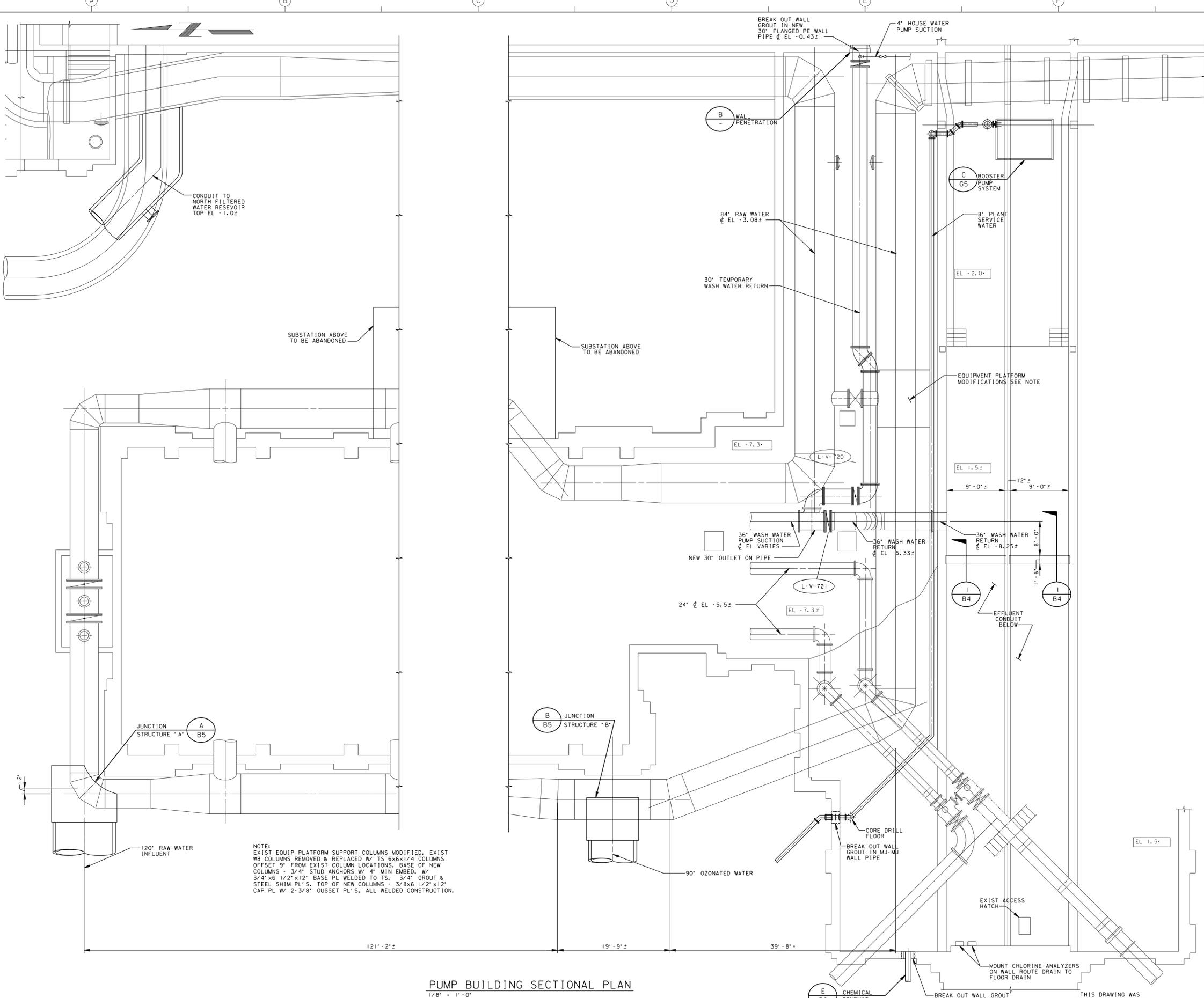


NOTE:
PLACE ALL WALL STEEL 2" FROM FACE [C DIMENSIONS]; ALL SLAB STEEL 1 1/2" FROM SURFACE, UNLESS OTHERWISE NOTED.
FOR LOCATION SEE DRAWING WP 18-19 WRAP I BEAMS IN MESH AS SPECIFIED FOR PIPE ENCASMENT & INCREASE IN CONCRETE WITH 2" COVER.



CITY ENGINEER'S OFFICE, MILWAUKEE, WIS.
MILWAUKEE WATER WORKS
WATER PURIFICATION PLANT
PIPE ENCASMENT AND PIPING
VENTURI METER PITS
APPROVED: [Signature]
DESIGNED BY: A.W. CLENEY
CHECKED BY: J.H. HAEUBIG
DATE: JULY 24, 1936.
DRAWN BY: V.R. STEWART
CHECKED BY: L.H. JANZER
DRWG. WP 18-20

MICROFILMED 12-1-71



NOTE:
 EXIST EQUIP PLATFORM SUPPORT COLUMNS MODIFIED. EXIST WB COLUMNS REMOVED & REPLACED W/ TS 6x6x1/4 COLUMNS OFFSET 9" FROM EXIST COLUMN LOCATIONS. BASE OF NEW COLUMNS - 3/4" STUD ANCHORS W/ 4" MIN EMBED. W/ 3/4"x6 1/2"x12" BASE PL WELDED TO TS. 3/4" GROUT & STEEL SHIM PL'S. TOP OF NEW COLUMNS - 3/8x6 1/2"x12" CAP PL W/ 2-3/8" GUSSET PL'S. ALL WELDED CONSTRUCTION.

GENERAL NOTE:
 * SCREENED (LIGHT) DELINEATION SHOWN ON THIS SHEET DENOTES EXISTING FACILITIES. * SCREENED INFORMATION WAS TAKEN FROM PREVIOUS CONSTRUCTION DRAWINGS & FIELD SURVEY. IS FOR REFERENCE ONLY, AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE ORDERING OF MATERIALS & BEGINNING CONSTRUCTION. ALL EXISTING CONSTRUCTION MAY NOT BE SHOWN. * BOLD (DARK) DELINEATION IS NEW WORK TO BE CONSTRUCTED UNDER THIS CONTRACT.

THIS DRAWING WAS
 ORIGINALLY APPROVED
 FOR CONSTRUCTION AND
 SEALED ON 7-25-97
 BY DANIEL W. MCCARTHY,
 A LICENSED PROFESSIONAL
 ENGINEER IN THE STATE
 OF WISCONSIN,
 NO. E-30681

NO.	DATE	DESCRIPTION	BY	CHKD.
	10/98	CONFORMED TO CONSTRUCTION RECORDS	JJG	SJS

BVCI/JSA JOINT VENTURE

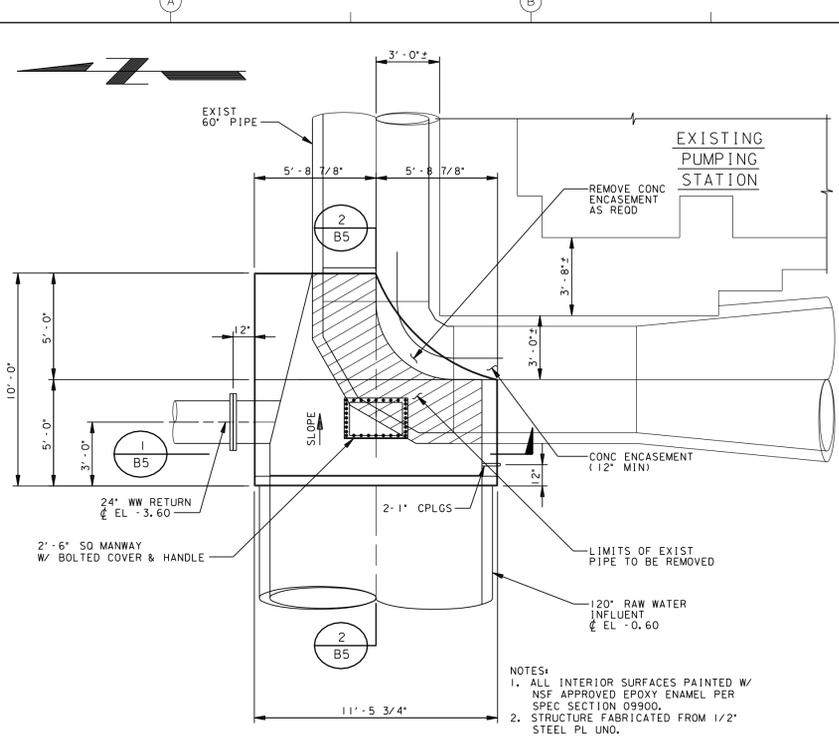
ENVIRONMENTAL ENGINEERING SECTION
 INFRASTRUCTURE SERVICES DIVISION
 DEPARTMENT OF PUBLIC WORKS
 MILWAUKEE, WISCONSIN

**LINWOOD PURIFICATION PLANT
 OZONATION FACILITIES PROJECT**

SITWORK
 YARD PIPING CONNECTIONS

DESIGNED BY: MPS,RBJ DATE: _____
 DRAWN BY: WDA, TSHZ SCALE: AS INDICATED
 CHECKED BY: MPS, TFS
 WORK ORDER NO. 801-030 FILE 3-11-34 DRWG. WP-235-10

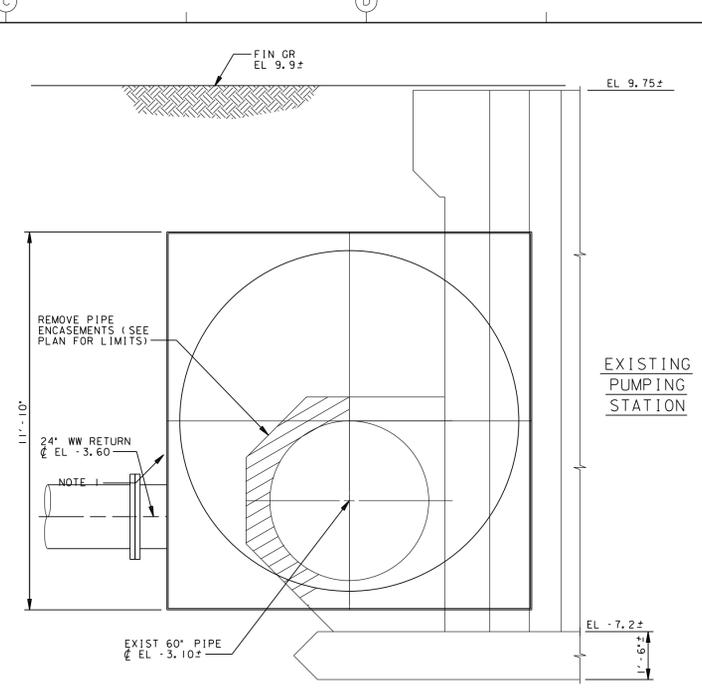
XREF: 31904-300-229-C001



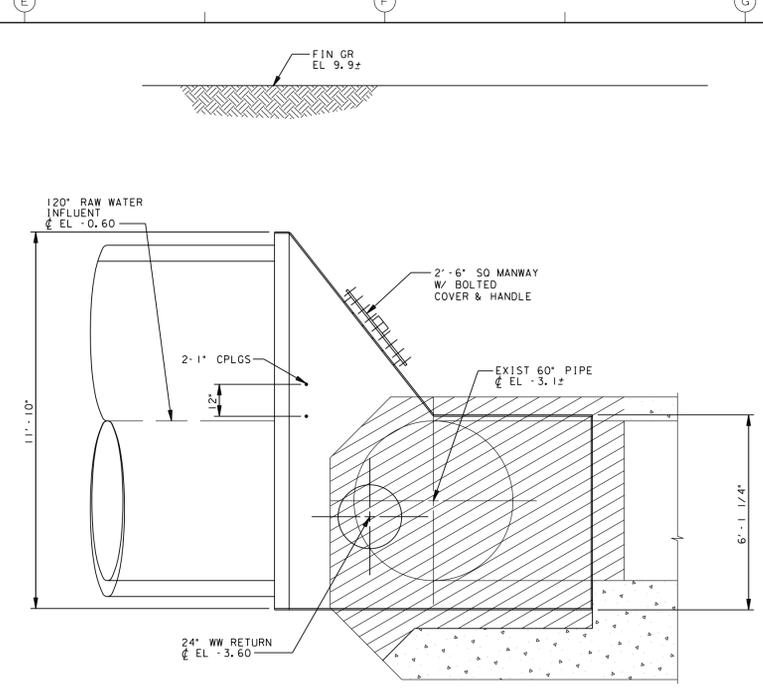
PLAN

JUNCTION STRUCTURE "A"
1/4" = 1'-0"

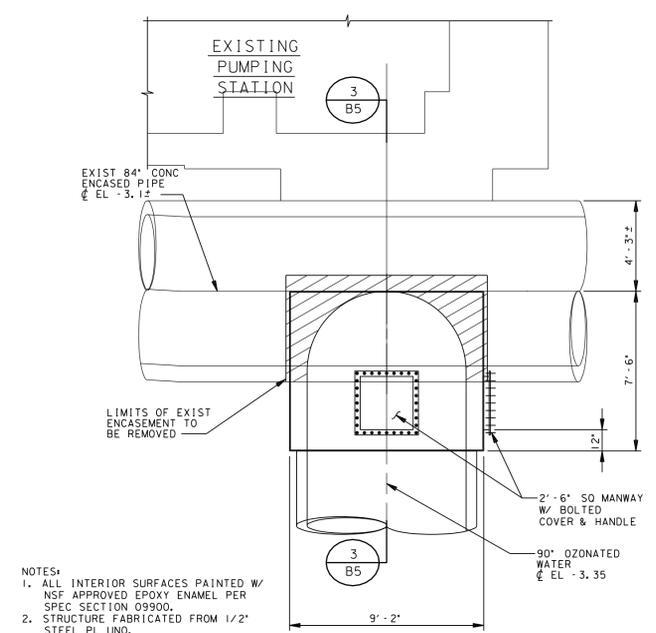
- NOTES:
1. ALL INTERIOR SURFACES PAINTED W/ NSF APPROVED EPOXY ENAMEL PER SPEC SECTION 09900.
 2. STRUCTURE FABRICATED FROM 1/2" STEEL PL UNO.



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



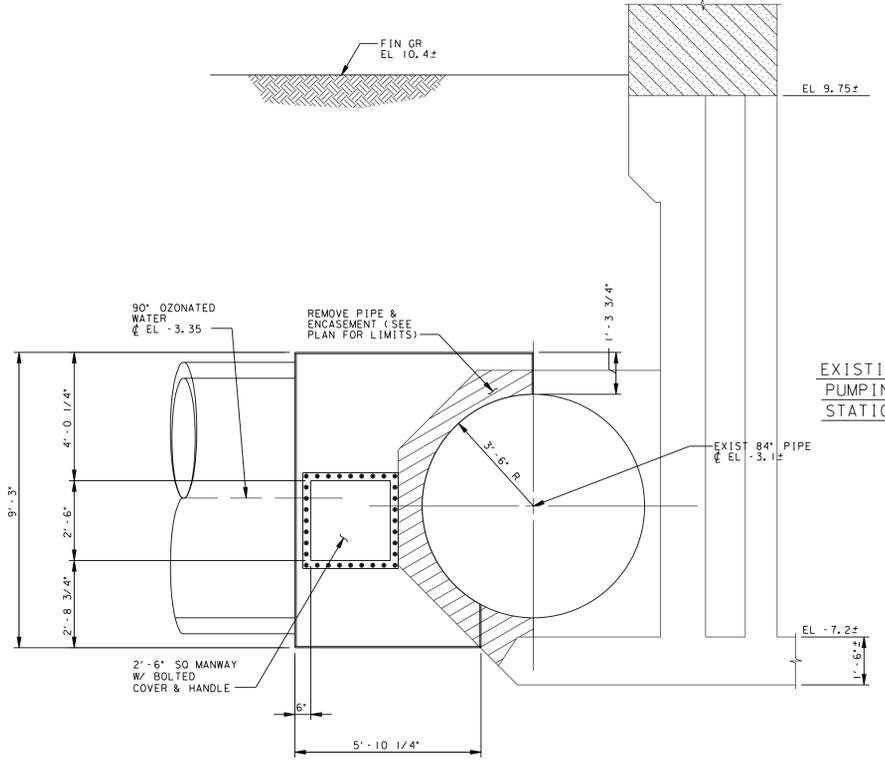
SECTION 2
3/8" = 1'-0"



PLAN

JUNCTION STRUCTURE "B"
1/4" = 1'-0"

- NOTES:
1. ALL INTERIOR SURFACES PAINTED W/ NSF APPROVED EPOXY ENAMEL PER SPEC SECTION 09900.
 2. STRUCTURE FABRICATED FROM 1/2" STEEL PL UNO.



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

GENERAL NOTE:
* SCREENED (LIGHT) DELINEATION SHOWN ON THIS SHEET DENOTES EXISTING FACILITIES. * SCREENED INFORMATION WAS TAKEN FROM PREVIOUS CONSTRUCTION DRAWINGS & FIELD SURVEY, IS FOR REFERENCE ONLY, AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE ORDERING OF MATERIALS & BEGINNING CONSTRUCTION. ALL EXISTING CONSTRUCTION MAY NOT BE SHOWN. * BOLD (DARK) DELINEATION IS NEW WORK TO BE CONSTRUCTED UNDER THIS CONTRACT.

NO.	DATE	DESCRIPTION	BY	CHKD.
	10/98	CONFORMED TO CONSTRUCTION RECORDS	JJG	SJS
	8/29/97	GENERAL REVISIONS	RYJ	MPS

BVCI/JSA JOINT VENTURE

ENVIRONMENTAL ENGINEERING SECTION
INFRASTRUCTURE SERVICES DIVISION
DEPARTMENT OF PUBLIC WORKS
MILWAUKEE, WISCONSIN

LINWOOD PURIFICATION PLANT
OZONATION FACILITIES PROJECT

SITWORK
JUNCTION STRUCTURES "A" & "B"
SECTIONS & DETAILS

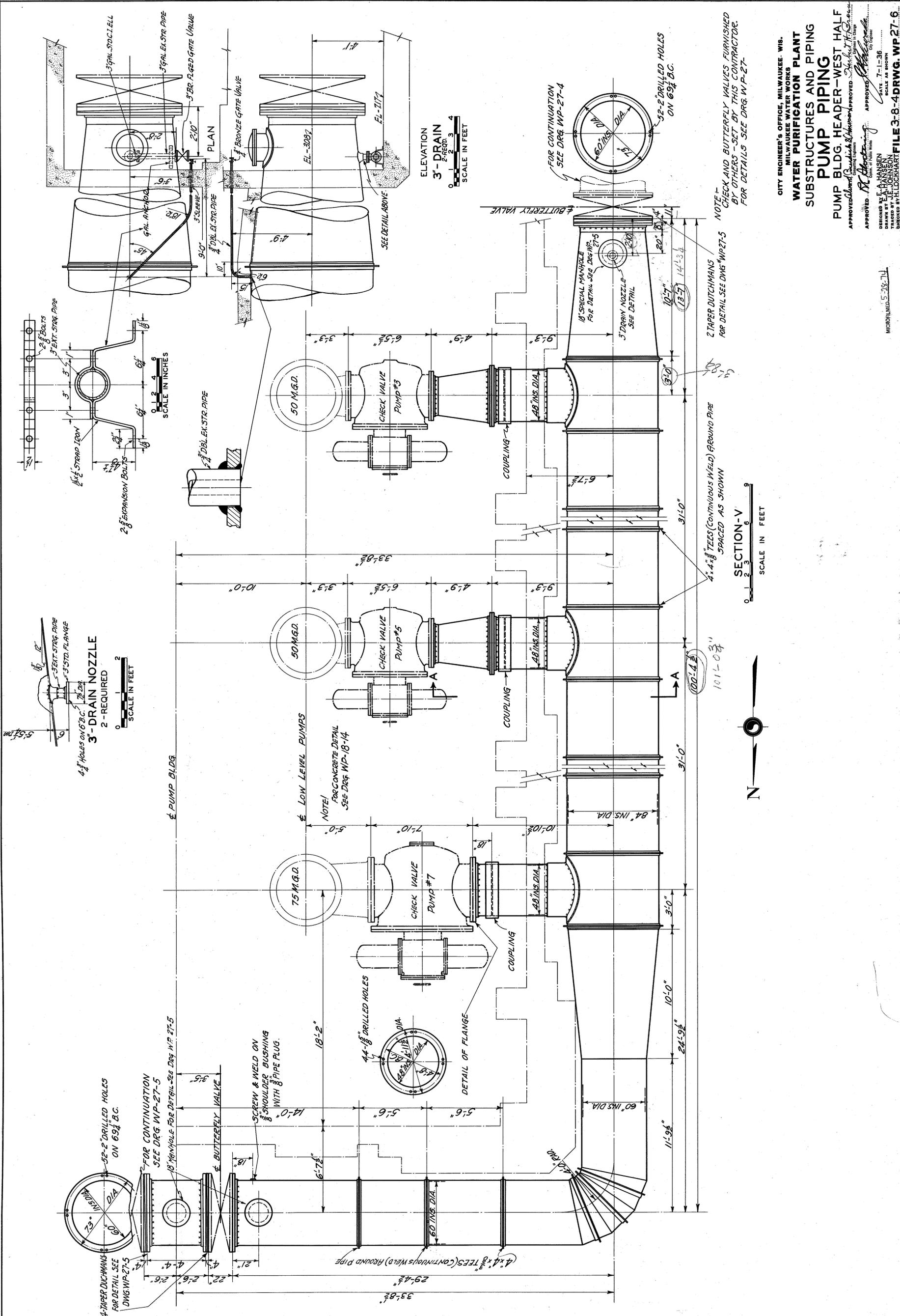
THIS DRAWING WAS
ORIGINALLY APPROVED
FOR CONSTRUCTION AND
SEALED ON 8-28-97
BY DANIEL W. MCCARTHY,
A LICENSED PROFESSIONAL
ENGINEER IN THE STATE
OF WISCONSIN,
NO. E-30681

B5

DESIGNED BY: MPS
DRAWN BY: JJG, WDA
CHECKED BY: MPS, RAM
WORK ORDER NO. 801-030

DATE: AS INDICATED
SCALE: AS INDICATED

FILE 3-11-34
DRWG. WP-235-11



ELEVATION
 3'- DRAIN
 2'- REED
 3'- 4
 SCALE IN FEET

SECTION-V
 SCALE IN FEET



NOTE - CHECK AND BUTTERFLY VALVES FURNISHED BY OTHERS - SET BY THIS CONTRACTOR. FOR DETAILS SEE DRG. WP-27-

NOTE - TAPER DUTCHMANS FOR DETAIL SEE DRG. WP-27-5

4x4x8 TEES (CONTINUOUS WELD) AROUND PIPE SPACED AS SHOWN

100'-1.2'

101'-0.2'

31'-0"

31'-0"

31'-0"

31'-0"

31'-0"

31'-0"

31'-0"

31'-0"

31'-0"

31'-0"

CITY ENGINEER'S OFFICE, MILWAUKEE, WIS.
 MILWAUKEE WATER WORKS
WATER PURIFICATION PLANT
SUBSTRUCTURES AND PIPING
PUMP BLDG. HEADER - WEST HALF
 APPROVED: [Signature] DATE: 7-1-36
 DESIGNED BY: [Signature] SCALE AS SHOWN
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 MICROFILMED 5-28-74
FILE 3-8-4 DRWG. WP 27-6