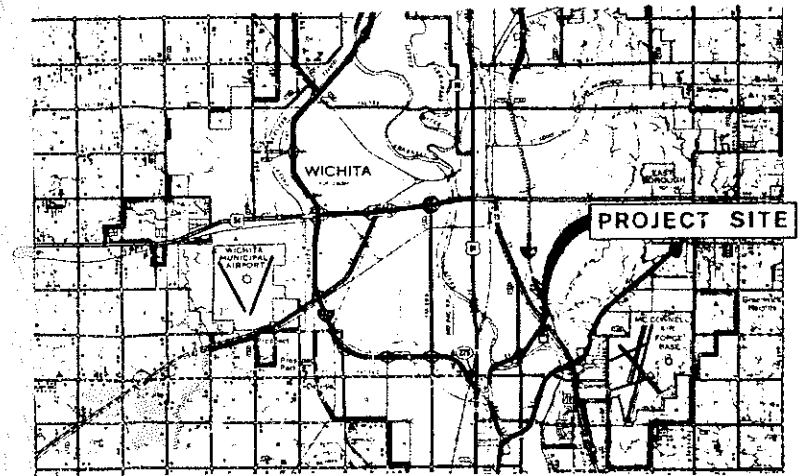


WICHITA, KANSAS

PLANT NO. 1 PUMPING STATION

I PA PROJECT NO. C200-513-01



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102	SITE PREPARATION LAYOUT (REMOVAL ITEMS)	302	INTERMEDIATE LEVEL FRAMING PLAN
103	SITE PLAN	303	OPERATIONS LEVEL FRAMING PLAN
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106	GRADING, LANDSCAPING AND PAVING PLAN	306	BUILDING SECTION AND DETAILS
107	LIST OF PLANT MATERIALS AND PLANTING DETAILS	307	BUILDING SECTION
108	PAVEMENT AND MISCELLANEOUS DETAILS	308	BUILDING SECTIONS
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202	INTERMEDIATE LEVEL FLOOR PLAN	312	BEAM AND COLUMN SCHEDULE
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204	MEZZANINE LEVEL FLOOR PLAN	314	INLET TUNNEL AND OVERFLOW STRUCTURE SECTIONS
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209	EXTERIOR WALL SECTIONS	319	EFFLUENT FLUME
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211	EXTERIOR WALL SECTIONS	401	INLET TUNNEL AND OVERFLOW STRUCTURE
212	INTERIOR WALL SECTIONS	402	HEADWORKS STRUCTURE - OPERATIONS LEVEL
213	DOOR, WINDOW AND LOUVER DETAILS AND SCHEDULE	403	HEADWORKS STRUCTURE - PUMP LEVEL
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216	SIGN AND MISCELLANEOUS DETAILS	406	PUMP PIT AND NET WELL - ELEVATION
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409	GRIT BASIN FACILITY - INTERMEDIATE LEVEL PIPING
410	GRIT BASIN FACILITY - TYPICAL BASIN DETAILS
411	MEZZANINE LEVEL PLAN AND GRIT Dewatering EQUIPMENT
412	SEPTIC TANK DUMP PIT DETAILS
413	SEWER AND FLUME PROFILES
414	MANHOLE A
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502	PLUMBING PLAN INTERMEDIATE LEVEL
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511	HVAC DETAILS
512	PIPING SCHEMATICS
513	HVAC SCHEDULES
514	CONTROL DIAGRAMS
515	FUEL OIL STORAGE TANK AND MISCELLANEOUS DETAILS
516	PIPING SCHEMATICS

PROJECT LOCATION

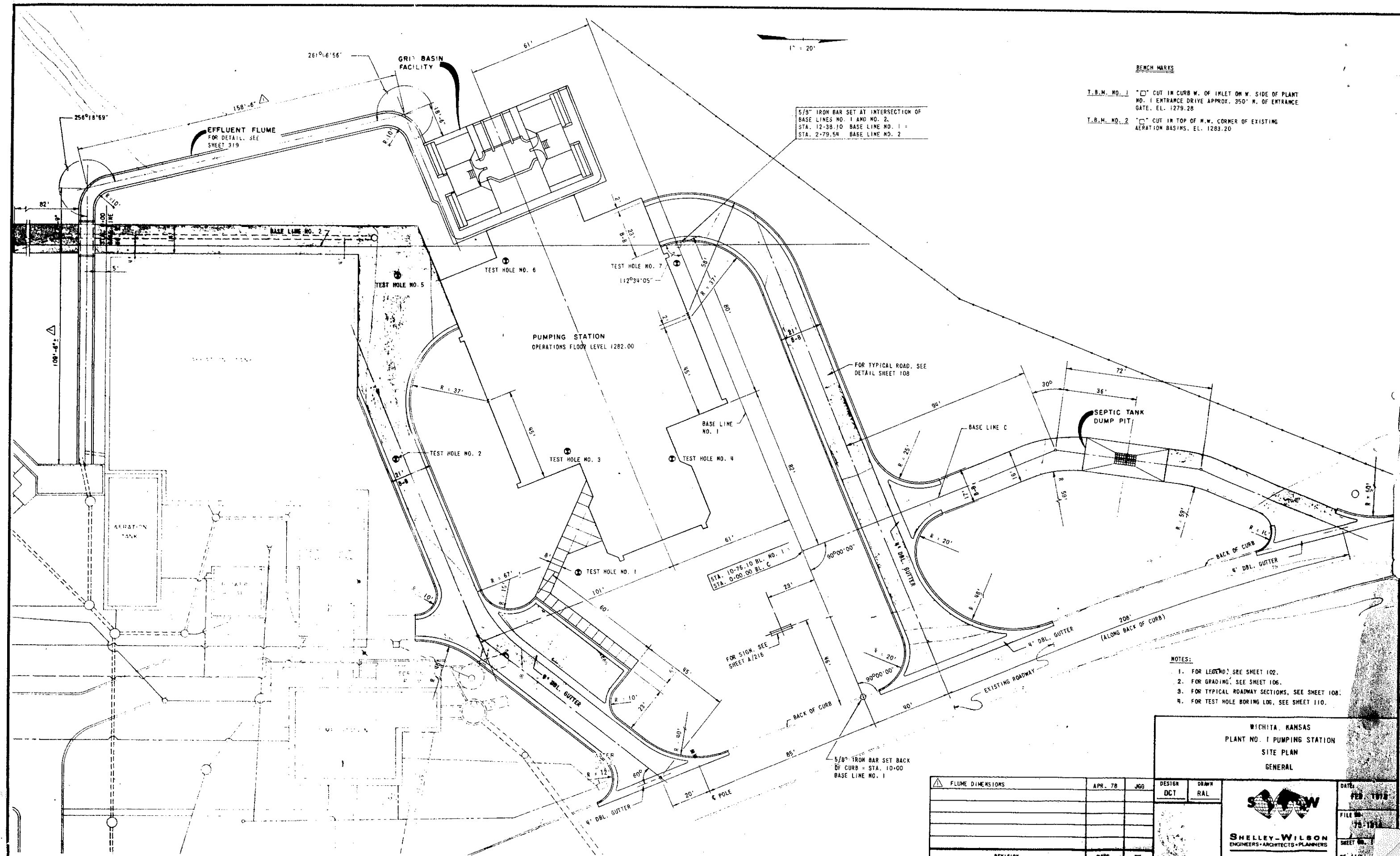
SCALE: 1" = 2 MILES

SHEET NO.	DESCRIPTION
ELECTRICAL	
601	LIGHTING - PUMP LEVEL
602	LIGHTING - INTERMEDIATE LEVEL
603	LIGHTING - OPERATIONS LEVEL
604	LIGHTING - MEZZANINE LEVEL
605	POWER - PUMP LEVEL
606	POWER - INTERMEDIATE LEVEL
607	POWER - OPERATIONS LEVEL
608	POWER - MEZZANINE LEVEL
609	POWER - ONE LINE DIAGRAM
610	POWER - ONE LINE DIAGRAM
611	POWER - ONE LINE DIAGRAM
612	LEGEND, SCHEDULE AND DIAGRAMS
613	DIAGRAMS AND DETAILS



SHELLEY-WILSON
ENGINEERS-ARCHITECTS-PLANNERS

311 LAURA • WICHITA, KANSAS 67211



5/8" IRON BAR SET AT INTERSECTION OF
BASE LINES NO. 1 AND NO. 2.
STA. 12+38.10 BASE LINE NO. 1 =
STA. 2+79.54 BASE LINE NO. 2

BENCH MARKS

- T.B.M. NO. 1 "C" CUT IN CURB W. OF INLET ON W. SIDE OF PLANT
NO. 1 ENTRANCE DRIVE APPROX. 350' N. OF ENTRANCE
GATE, EL. 1279.28
- T.B.M. NO. 2 "C" CUT IN TOP OF N.W. CORNER OF EXISTING
AERATION BASINS, EL. 1283.20

NOTES:

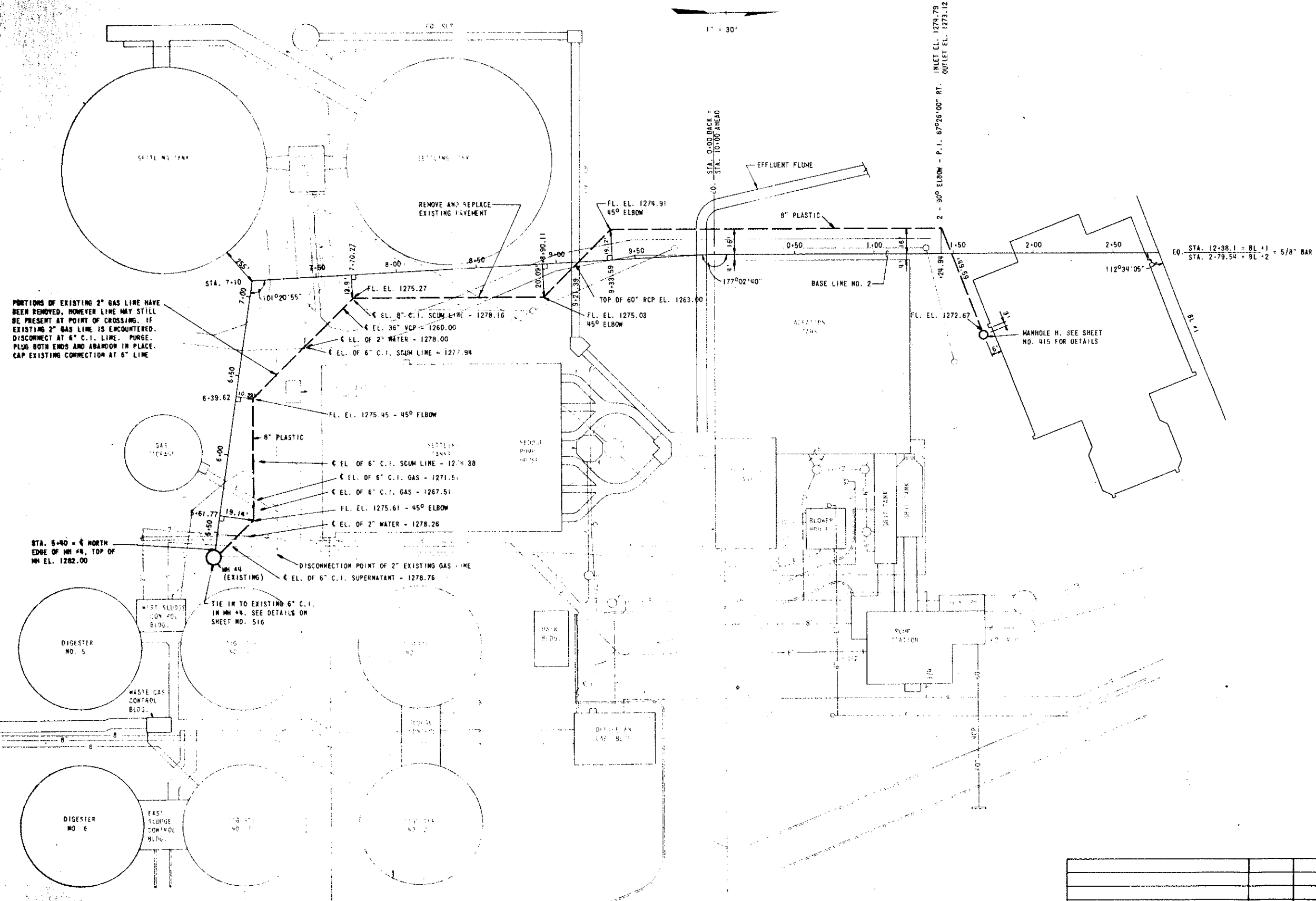
1. FOR LEGEND, SEE SHEET 102.
2. FOR GRADING, SEE SHEET 106.
3. FOR TYPICAL ROADWAY SECTIONS, SEE SHEET 108.
4. FOR TEST HOLE BORING LOG, SEE SHEET 110.

WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
SITE PLAN
GENERAL

 FLUME DIMENSIONS	APR. 78	JGO
REVISION	DATE	BY

SHELLEY-WILSON
ENGINEERS-ARCHITECTS-PLANNERS
204 LARSEN • WICHITA, KANSAS 67211

DATE: FEB 1978
FILE NO: 75-1011
SHEET NO. 1
OF 110



PORTIONS OF EXISTING 2" GAS LINE HAVE BEEN REMOVED, HOWEVER LINE MAY STILL BE PRESENT AT POINT OF CROSSING. IF EXISTING 2" GAS LINE IS ENCOUNTERED, DISCONNECT AT 6" C.I. LINE. PURGE, PLUG BOTH ENDS AND ABANDON IN PLACE. CAP EXISTING CONNECTION AT 6" LINE

- NOTES:
1. TIE-IN OF THE NEW GAS LINE TO THE EXISTING GAS SYSTEM SHALL BE COORDINATED WITH PLANT NO. 1.
 2. ALL ELEVATIONS OF EXISTING UNDERGROUND PIPING ARE APPROXIMATE. LOCATION AND DEPTH SHALL BE DETERMINED BEFORE EXCAVATION BEGINS.

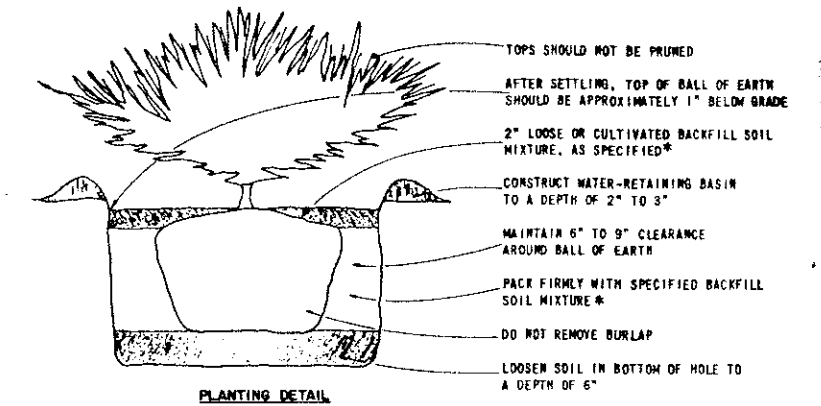
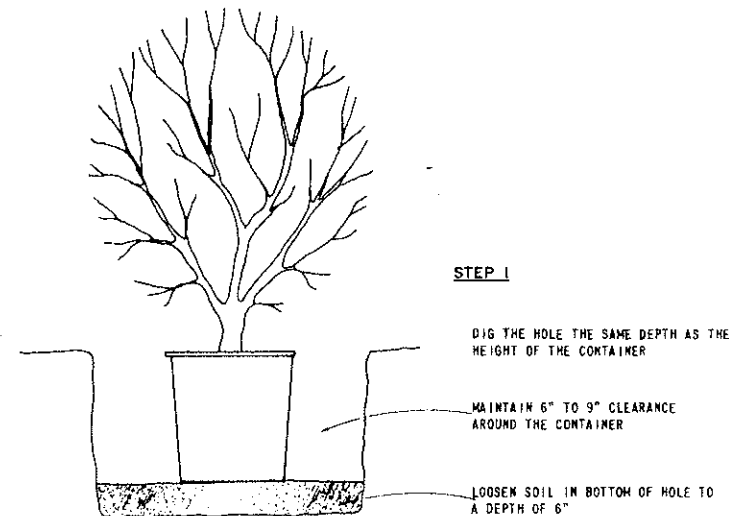
NOTE: FOR LEGEND, SEE SHEET 102.

WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
DIGESTER GAS PIPING LAYOUT
GENERAL

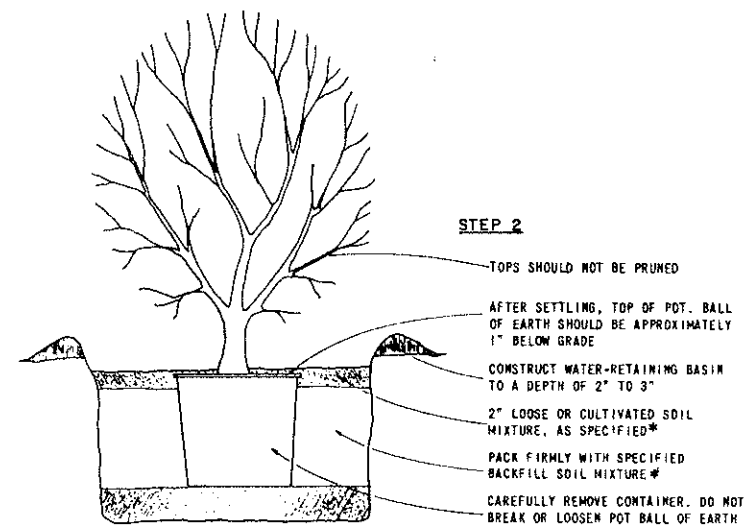
DESIGN GDS	DRAWN RLL	DATE FEB. 1979	SHELLEY-WILSON ENGINEERS-ARCHITECTS-PLANNERS 804 CEDAR • WICHITA, KANSAS 67201	SHEET NO. 102 OF 112
REVISION	DATE	BY		

LIST OF PLANT MATERIALS

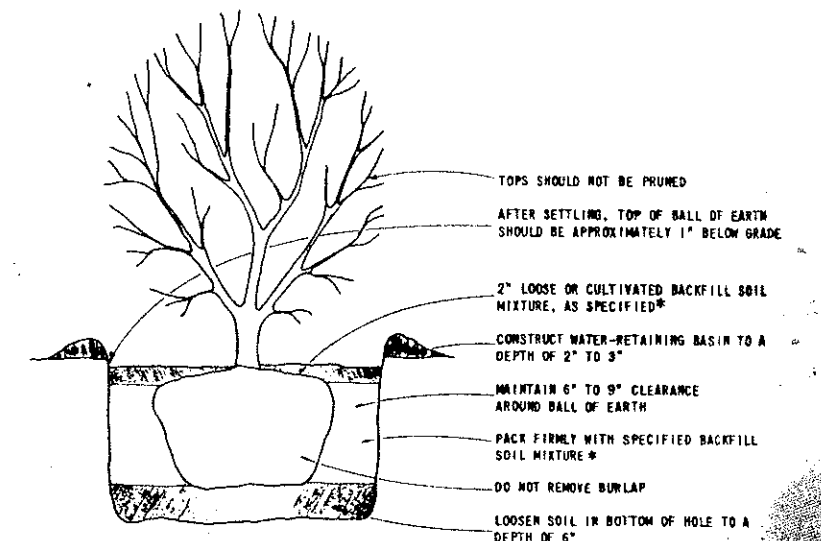
KEY NO.	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	SPECIFICATION
CONIFEROUS EVERGREENS:					
E1	50	Tamarix Savin Juniper	Juniperus sabina tamarscifolia	30-36 IN.	B & B
E2	10	Austrian Pine	Pinus nigra	9-10 FT.	B & B
E3	10	Golden Pfitzers Juniper	Juniperus chinensis, cv. Golden Pfitzer	30-36 IN.	B & B
BROADLEAVED EVERGREENS:					
B1	137	Lalande Firethorn	Pyracantha coccinea lalandi	30-36 IN.	5 GALLON CONTAINER
B2	1	Dragonrape	Mahonia aquifolium	30-36 IN.	B & B
SHADE AND ORNAMENTAL TREES:					
T1	9	Shademaster Honeylocust	Gleditsia triacanthos inermis, cv. Shademaster	1-1 1/2" CAL.	B & B
T2	4	Radiant Flowering Crabapple	Malus spp., cv. Radiant	6-8 FT.	B & B
T3	6	Goldenrainree	Koelreuteria paniculata	6-8 FT.	B & B
T4	3	Purple Leaf Plum	Prunus blireana	6-8 FT.	B & B
T5	1	Sweetgum	Liquidambar styraciflua	1-1 1/2" CAL.	B & B
GROUND COVER:					
G1	n.a.	Penngift Crownvetch Coronilla	Coronilla varia, cv. Penngift	n.a.	SEEDED PER SPECIFICATIONS



BALLED AND BURLAPPED EVERGREENS
NOT TO SCALE

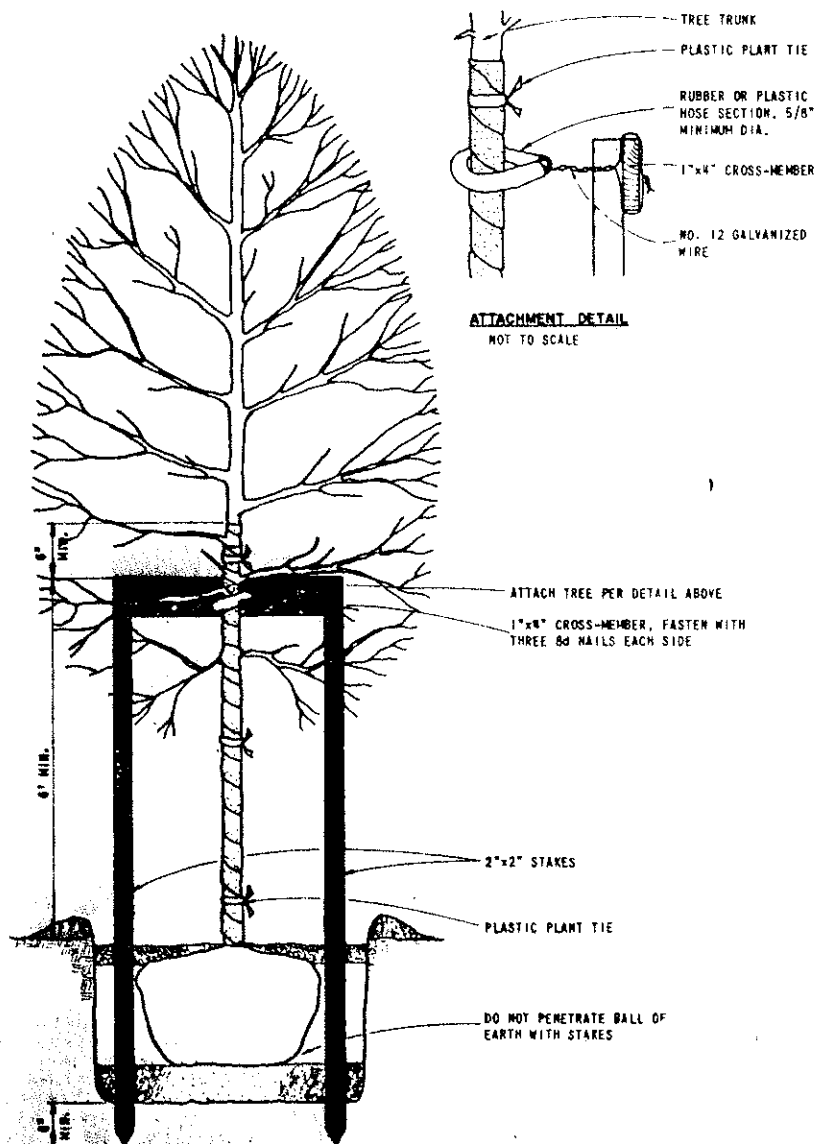


PLANTING DETAIL
CONTAINER GROWN NURSERY STOCK
NOT TO SCALE

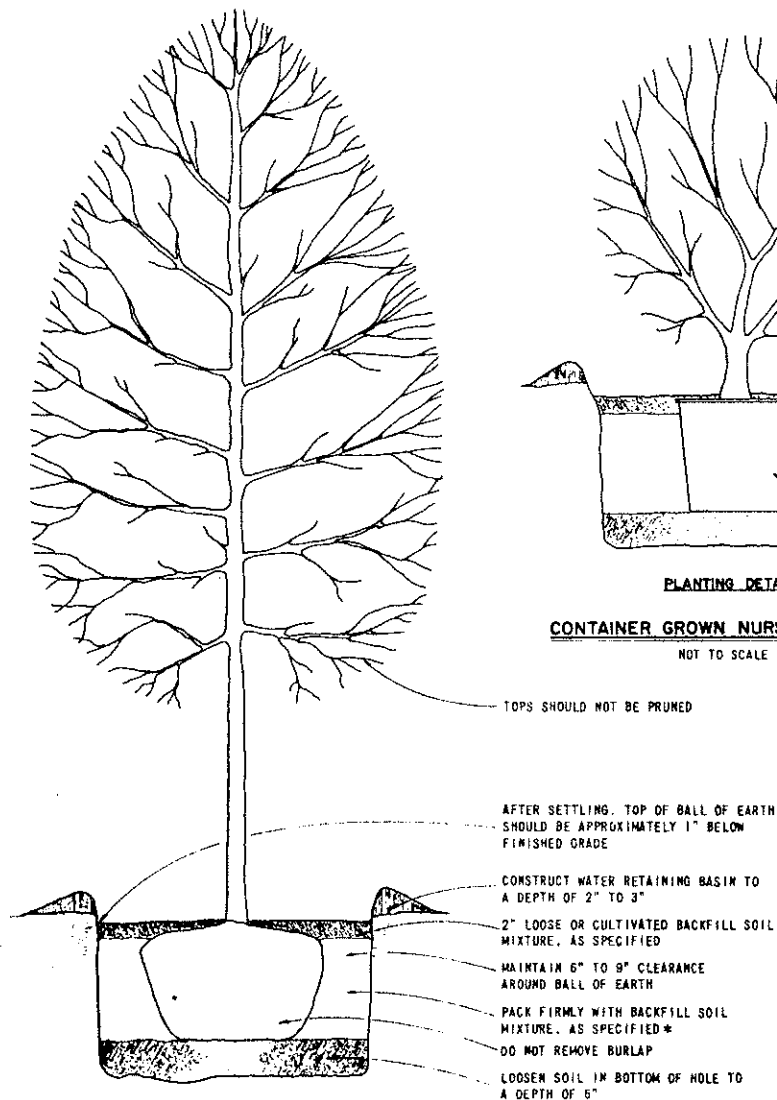


PLANTING DETAIL
BALLED AND BURLAPPED DECIDUOUS AND BROADLEAVED EVERGREEN SHRUBS
NOT TO SCALE

*BACKFILL SOIL MIXTURE SHALL CONSIST OF ONE PART HORTICULTURAL PEATMOSS TO TEN PARTS SOIL



ATTACHMENT DETAIL
BALLED AND BURLAPPED SHADE AND ORNAMENTAL TREES
NOT TO SCALE



PLANTING DETAIL

WICHITA, KANSAS		PLANT NO. 1 PUMPING STATION		LIST OF PLANT MATERIALS AND PLANTING DETAILS		GENERAL	
DESIGN	DATE	DRAWN	DATE	FILE NO.	DATE	FILE NO.	DATE
RBR		RMS					
REGISTERED LANDSCAPE ARCHITECT				SHELLEY-WILSON			
RALPH B. WICKLIFF, JR.				ENGINEERS-ARCHITECTS-PLANNERS			
STATE OF KANSAS				SHEET NO. 107			
REVISION		DATE		BY		OF	

TYPICAL CURBED SECTION
1/8" = 1'-0"

DUMP PIT ROAD SECTION
1/4" = 1'-0"

CURB AND GUTTER DETAIL
1 1/2" = 1'-0"

STANDARD 4' DOUBLE GUTTER
1 1/2" x 1'-0"

NON-FREEZE GROUND HYDRANT DETAIL
NO SCALE
(SIMILAR TO SMITH MODEL NO. 5811)

PLUG VALVE AND BOX DETAIL
NOT TO SCALE

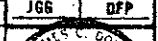
CLEANOUT
NOT TO SCALE

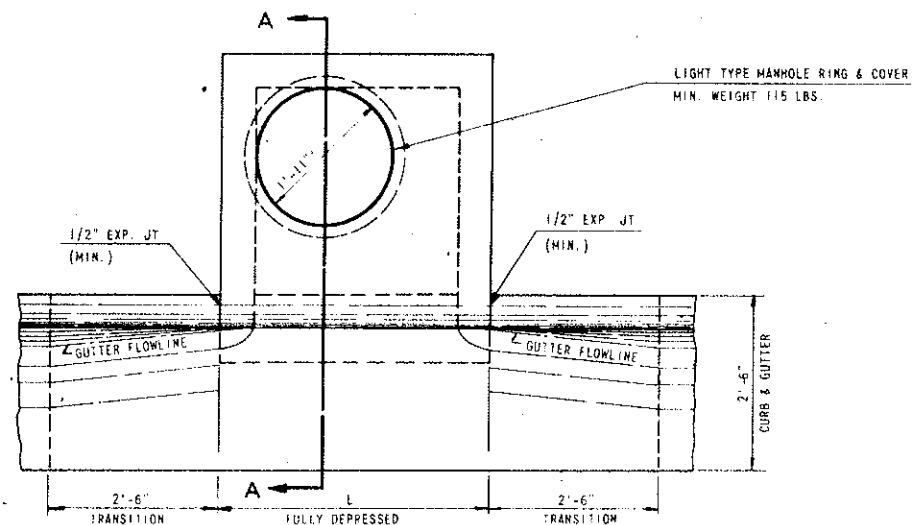
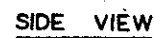
SECTION
ROOF DRAIN JUNCTION MANHOLE

TYPICAL BLOCKING DETAIL FOR CAST IRON FITTING
NOT TO SCALE

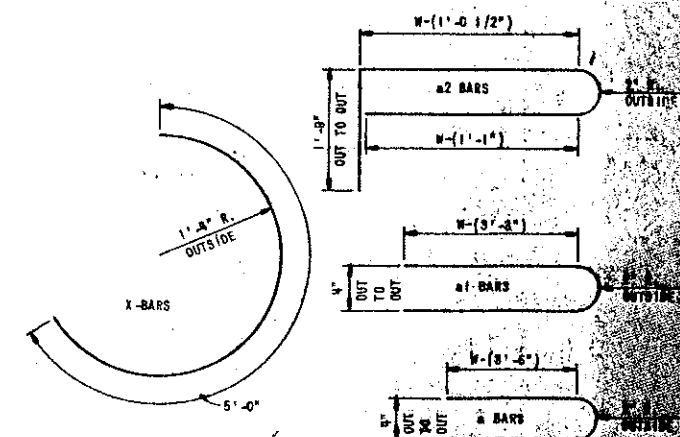
TYPICAL FIRE HYDRANT SETTING
NOT TO SCALE



			DESIGN JGG	DRAWN DFP	 SHELLY-WILSON ENGINEERS • ARCHITECTS • PLANNERS 1001 N. 10th St. • Dallas, Texas 75217	DATE FRI 1/27
						FILE NO. P10101
REVISION			DATE	BY		SHEET NO. 1 OF 1

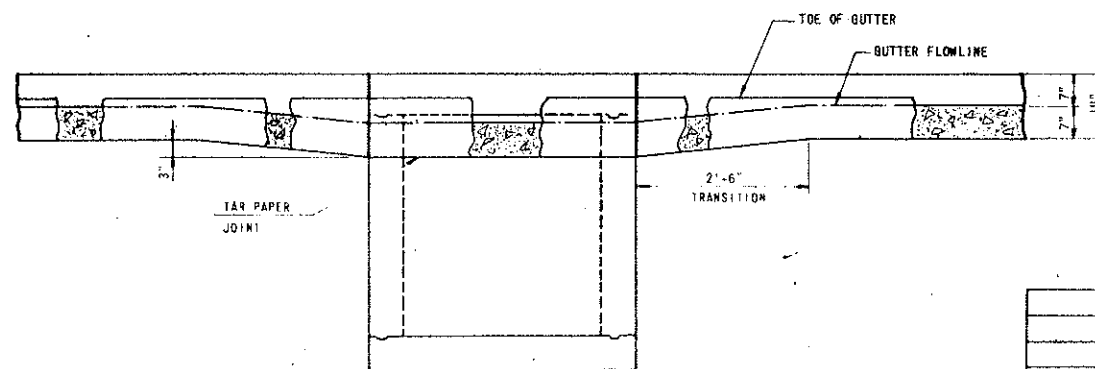


PLAN



BENDING DIAGRAMS.

NO SCALE



GUTTER TRANSITION

GENERAL NOTES

CONCRETE

REFER TO SPECIFICATIONS

CAST IRON

ALL EXPOSED CAST IRON SURFACES NOT SUBJECT TO TRAFFIC, SHALL RECEIVE ONE COAT OF A ZINC DUST PAINT APPLIED EITHER IN THE SHOP OR IN THE FIELD, AND TWO COATS OF ALUMINUM PAINT, APPLIED IN THE FIELD.

REINFORCING STEEL

ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO THE CENTER OF BARS UNLESS OTHERWISE NOTED ON THE PLANS.

REINFORCING STEEL SHALL BE #4 BARS AT 6" CENTERS AND SHALL BE 1 1/2" CLEAR DISTANCE FROM SLAB SURFACES, UNLESS OTHERWISE SHOWN ON THE PLANS.

ALL REINFORCING STEEL SHALL BE PLACED WITHIN 1 1/4" OF PLAN DIMENSION

REINFORCING STEEL SHALL BE BENT AROUND ALL PIPES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

MISCELLANEOUS

EXPANSION JOINT MATERIAL SHALL BE EITHER TPOURED JOINT SEALING COMPOUND (HOT OR COLD) OR PRE-MOLDED JOINT FILLER (NON-EXTRUDING TYPE B).

THIS DRAWING IS ADAPTED FROM KANSAS DEPARTMENT OF TRANSPORTATION
CURB INLET TYPE 22, STANDARD DRAWING NO. 646.

$$L = 4' - 0''$$

W = 4'-0"

$$H = 3' - 9''$$
[illegible]

DESIGN	DRAFTER
DCT	RAL

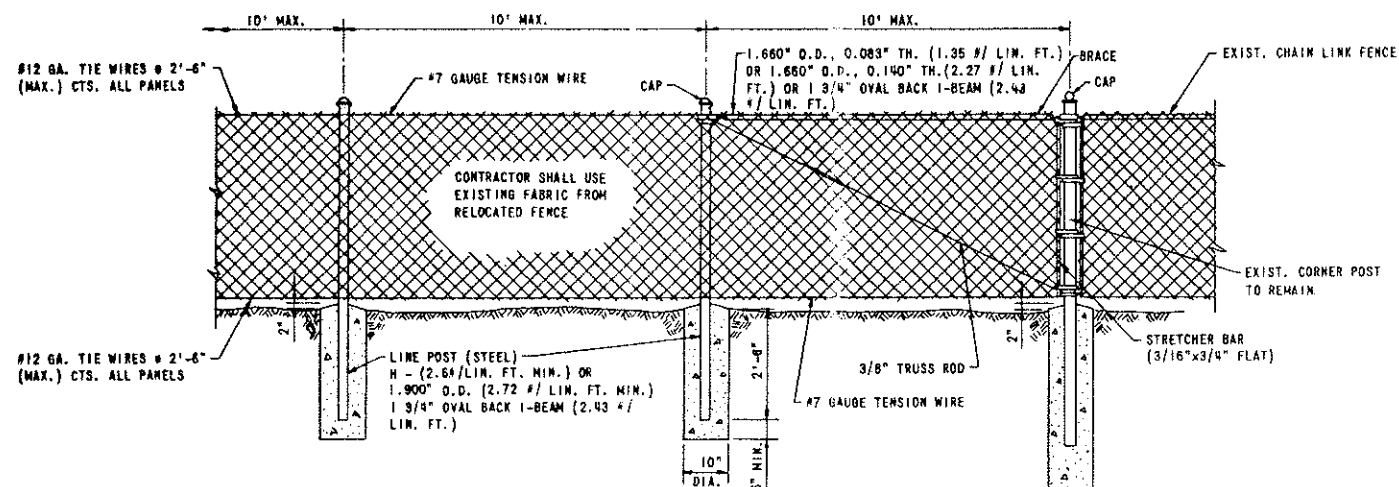
WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
STORM DRAIN INLET DETAIL
GENERAL



SHELLEY-WILSON
ENGINEERS • ARCHITECTS • PLANNERS

THE UNIVERSITY OF CHICAGO PRESS

DATE: 10-11-68
FILE: 100-101010
SHEET: 10
OF: 10



GENERAL NOTE:
ALL CONCRETE USED IN FENCE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS.

ALL STEEL POSTS, AND HARDWARE SHALL BE GALVANIZED.

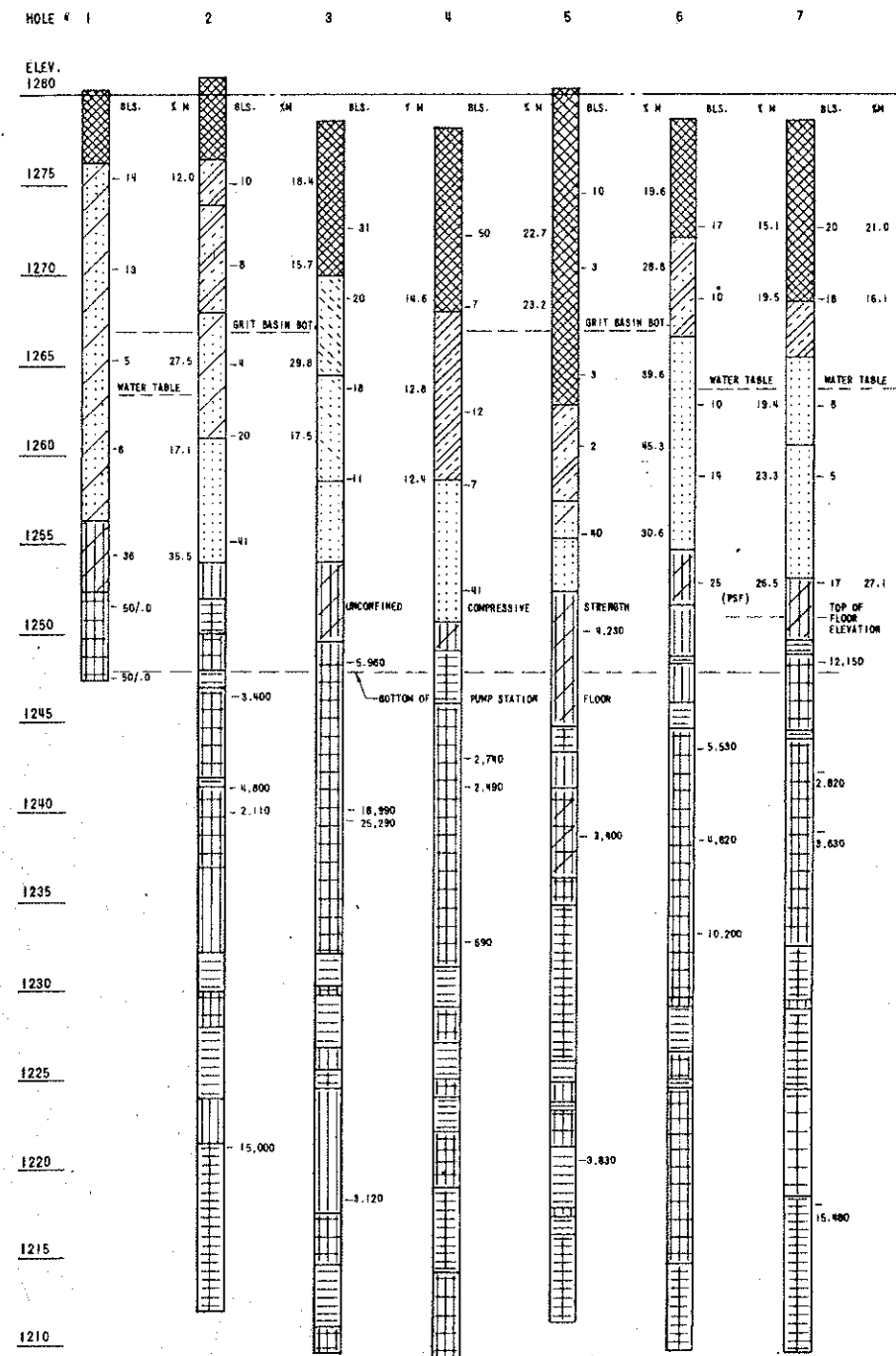
OUTSIDE DIAMETERS SHOWN FOR TUBULAR STEEL POSTS AND BRACING ARE NOMINAL.

CHAIN LINK FENCE

NO SCALE

(ADAPTED FROM KANSAS DEPARTMENT OF TRANSPORTATION STANDARD NO. 670)

TEST HOLE BORING LOG



LEGEND

- FILL
- SILTY CLAY
- SANDY SILT
- SILTY SANDY CLAY
- SAND WITH CLAY LAYERS
- SILTY SAND
- SAND
- CLAYEY SHALE
- SHALE
- CLAYEY SHALE WITH GYPSUM SEAMS
- SHALE WITH GYPSUM SEAMS
- GYPSUM WITH SHALE SEAMS
- GYPSUM

NOTE:

COMPLETE COPIES OF THE SOILS REPORT CAN BE INSPECTED AT ANY OF THE FOLLOWING LOCATIONS:

WILSON & COMPANY ENGINEERS & ARCHITECTS
631 EAST CRAWFORD
SALINA, KANSAS

WILSON & COMPANY ENGINEERS & ARCHITECTS
218 NORTH WACO
WICHITA, KANSAS

WILSON & COMPANY ENGINEERS & ARCHITECTS
719 STATE
KANSAS CITY, KANSAS

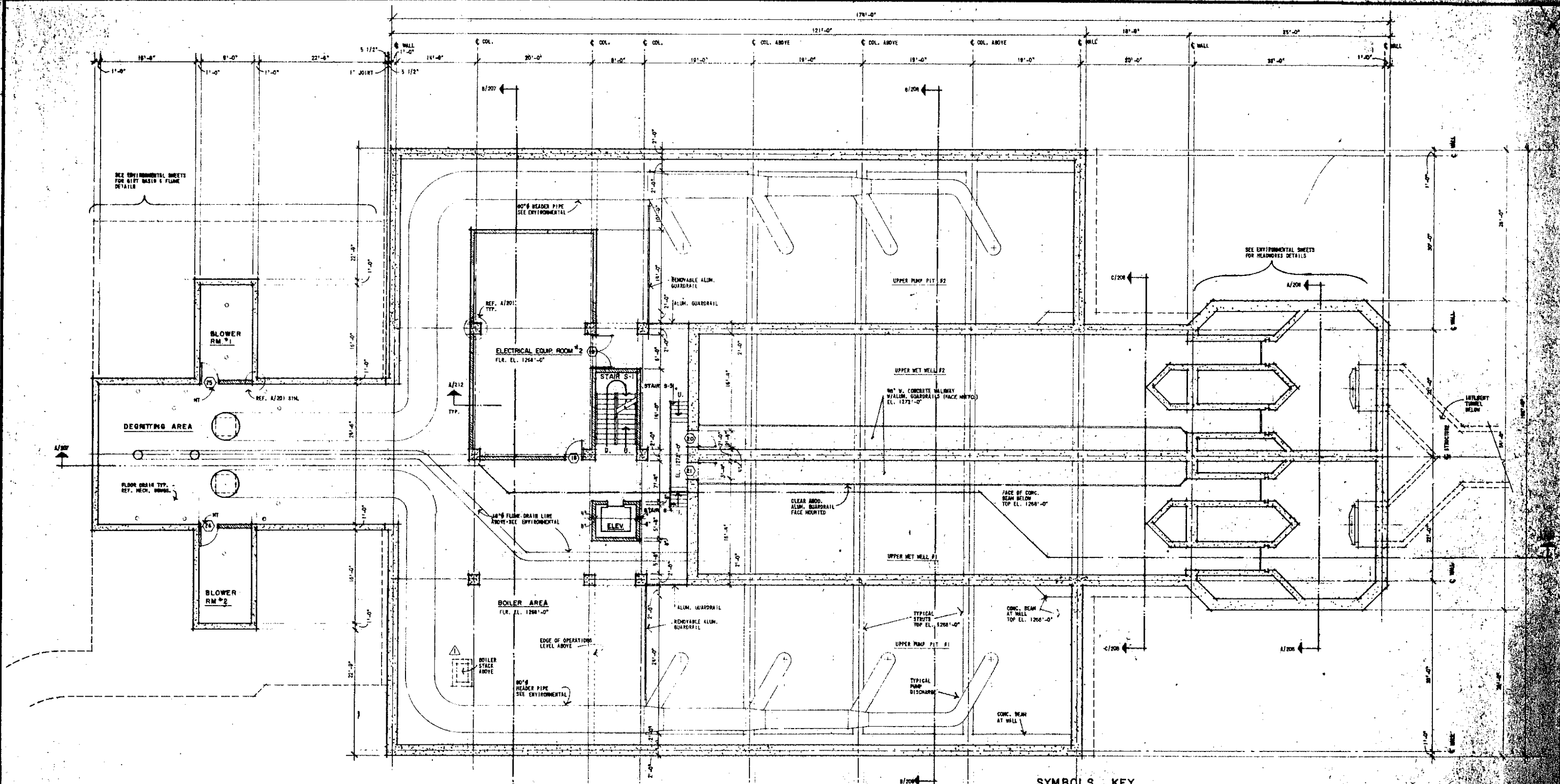


NOTE - SOILS REPORT		APR. 78	JGG	DESIGN	DRAWN	DATE
				JGG	RAL	APR. 1978
						FILE NO.
						7-1111
						SHEET NO.
						11
						OF 11
REVISION		DATE	BY			

WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
MISCELLANEOUS DETAILS
GENERAL

SHELLEY-WILSON
ENGINEERS-ARCHITECTS-PLANNERS

104 LAGUE, 4 WICHITA, KANSAS 67201



BUILDING MATERIAL KEY

CONCRETE SECTION	WOOD BLOCKING	MTL. STRUT	RIGID INSUL.
PLAIN	CORNER TILE	METAL	INSUL. CONC.

INTERMEDIATE LEVEL FLOOR PLAN
1/8" = 1'-0"

NOTES TO PLAN
1. REF. SHEET NO. 214 FOR HANDRAIL AND GUARDRAIL DETAILS.

SYMBOLS KEY

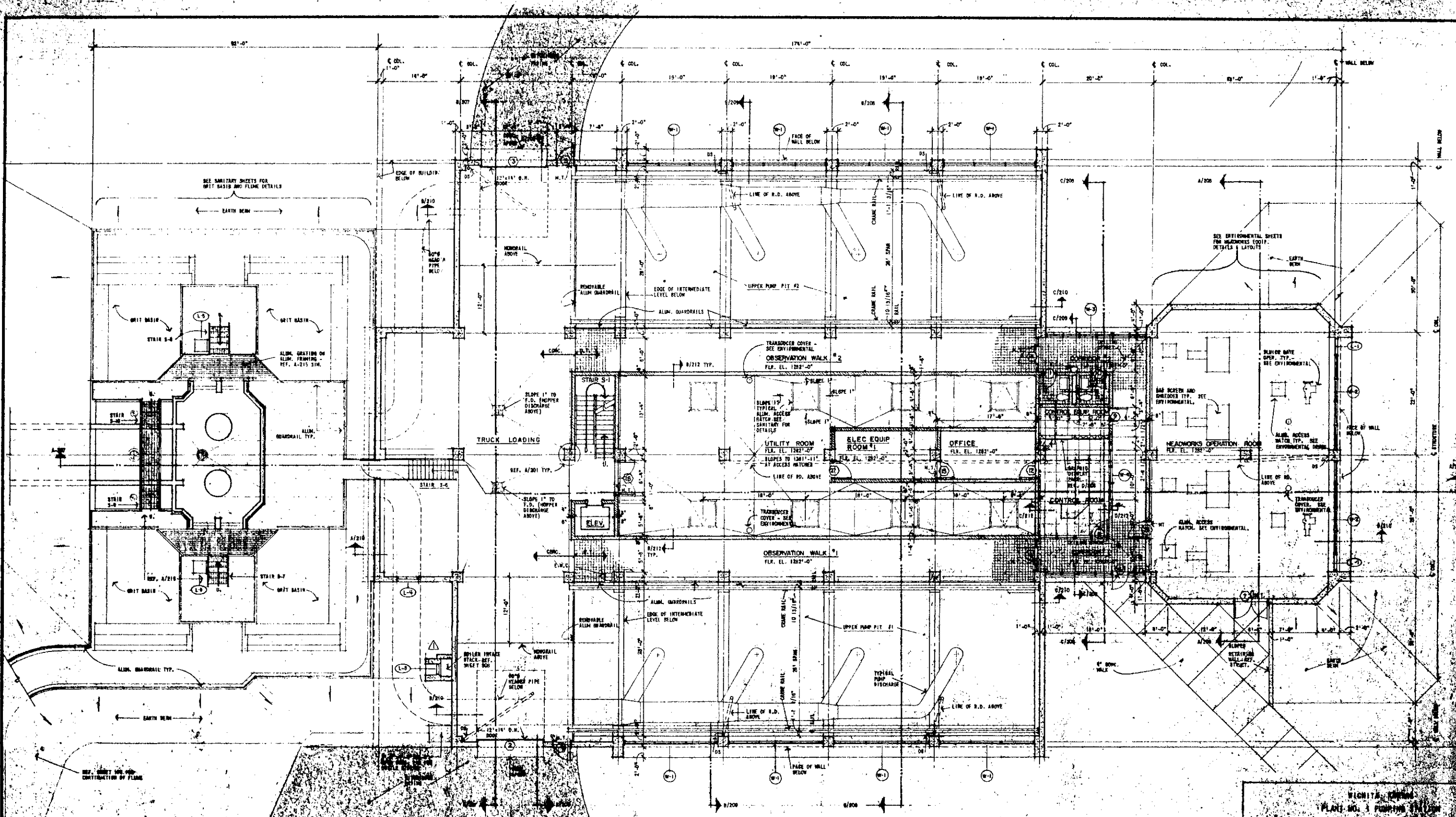
- REFER SECTION A, SHEET 000 FOR SECTION INDICATED
- DOOR MARK
- WINDOW (LOUVER) MARK
- POINT ELEVATION

REMOVED BOILER STACK	APR. 78	JOB
DESIGN	RMH	PMH
REVISION	DATE	BY

WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
INTERMEDIATE LEVEL FLOOR PLAN
ARCHITECTURAL

DATE: APR. 78
DRAWN BY: RMH
CHECKED BY: PMH
DESIGNED BY: RMH
REVISION: 1
DATE: APR. 78
BY: RMH

WARD & COOPER
1950



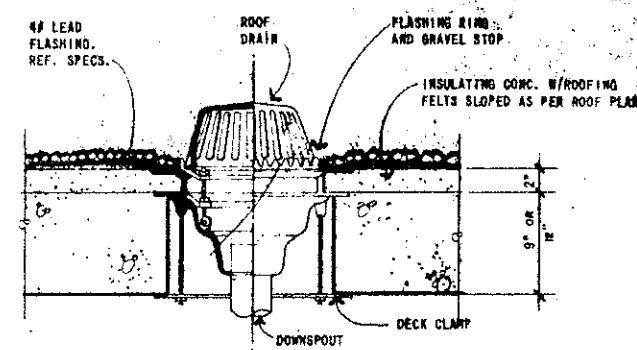
OPERATIONS LEVEL FLOOR PLAN

1/8" = 1'-0"

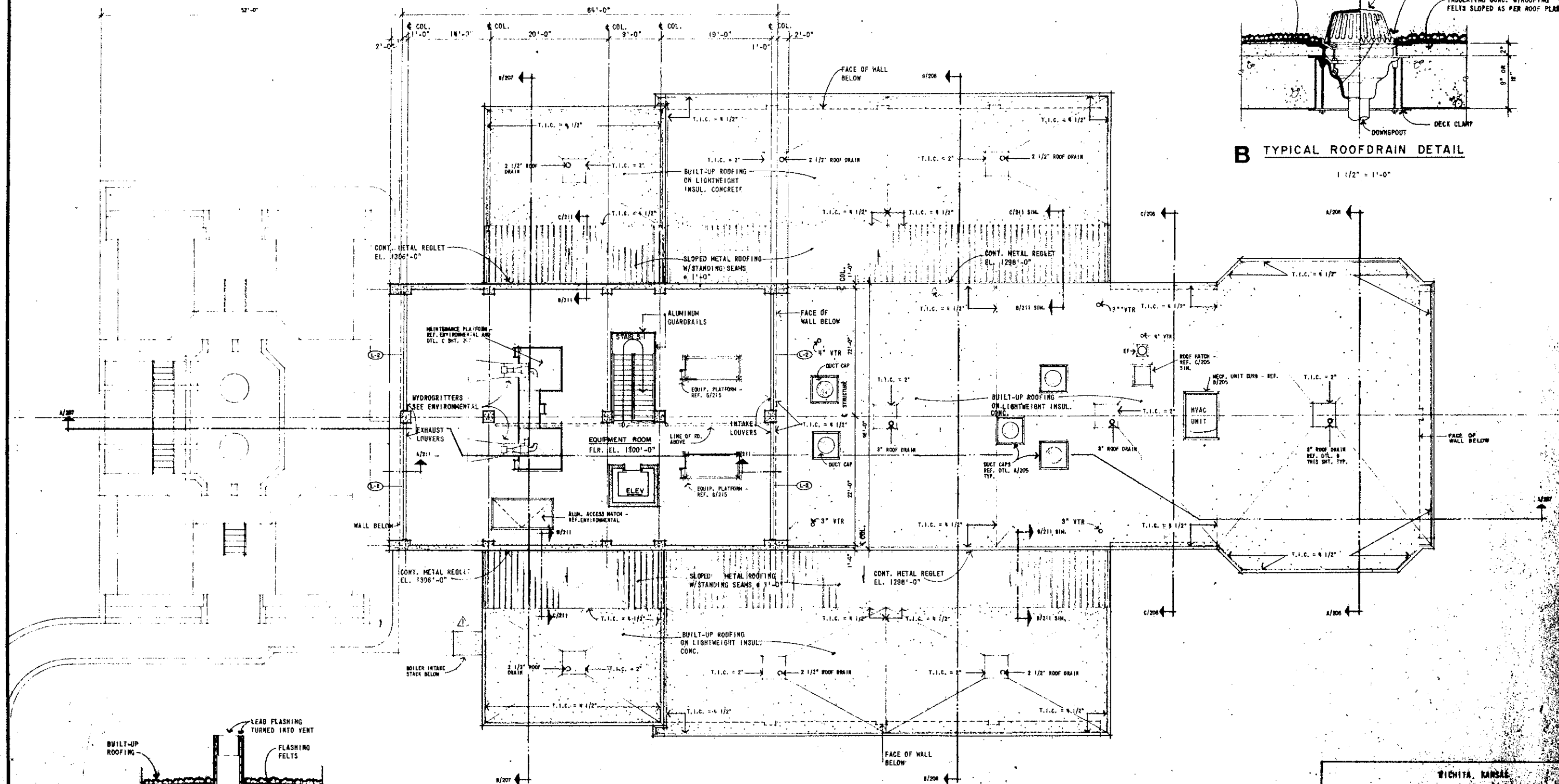
- NOTES TO PLAN
1. REF. SHEET NO. 214 FOR HANDRAIL AND GUARDRAIL DETAILS.
 2. REF. SHEET NO. 202 FOR BUILDING MATERIAL AND SYMBOLS KEY.
 3. FOR FURNITURE LOCATED IN OFFICE AND CONTING ROOM, REF. SPECIFICATIONS.

REMOVED BOILER STACK	APR. 78	APR. 78	APR. 78	APR. 78

WICHITA, KANSAS
PLANT NO. 3 PUMPING STATION
OPERATIONS LEVEL FLOOR PLAN
ARCHITECTS

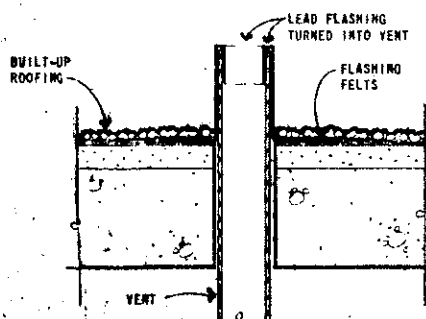


B TYPICAL ROOFDRAIN DETAIL
1 1/2" = 1'-0"



MEZZANINE LEVEL FLOOR PLAN
1/8" = 1'-0"

- NOTES TO PLAN**
1. REF. SHEET 214 FOR HANDRAIL AND GUARDRAIL DETAILS.
 2. REF. SHEET 215 FOR ALUMINUM GRATING DETAILS.
 3. "T.I.C." DENOTES "THICKNESS OF INSULATING CONCRETE".
 4. "V.T.R." DENOTES "VENT THROUGH ROOF". REF. DTL. A THIS SET.
 5. "E.F." DENOTES "EXHAUST FAN". REF. DTL. C/205.

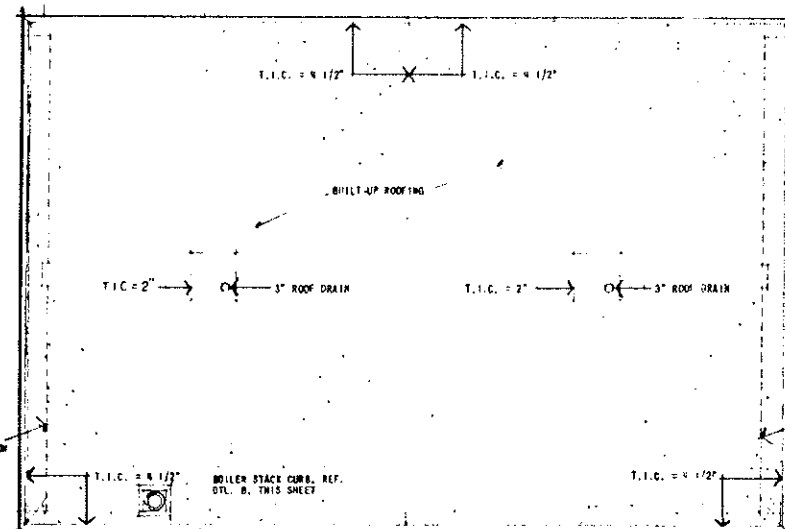


A PLUMBING VENT DETAIL
1 1/2" = 1'-0"

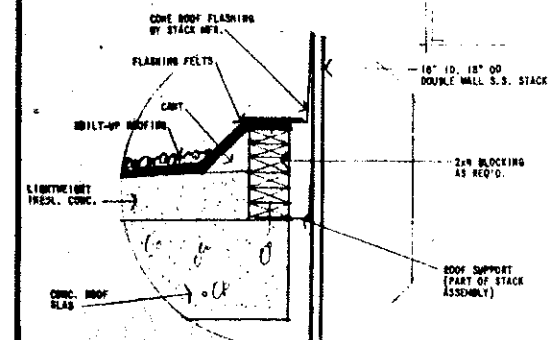
WICHITA, KANSAS
PLANT NO. 4 PUMP STATION
MEZZANINE LEVEL FLOOR PLAN
ARCHITECTURAL

REMOVED BOILER STACK	APR. 78	JGB	DESIGN	DRAWN

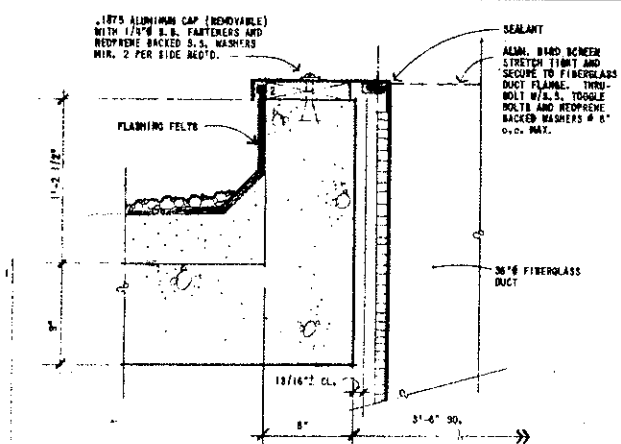
WICHITA, KANSAS
PLANT NO. 4 PUMP STATION
MEZZANINE LEVEL FLOOR PLAN
ARCHITECTURAL



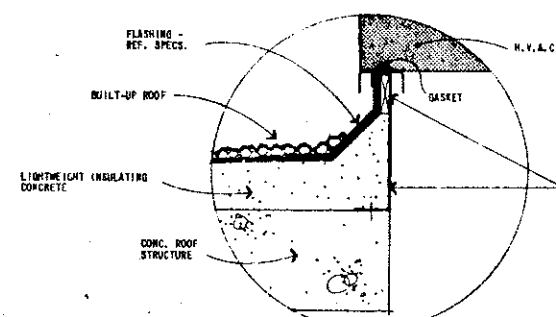
MEZZANINE ROOF PLAN
1 1/8" = 1'-0"



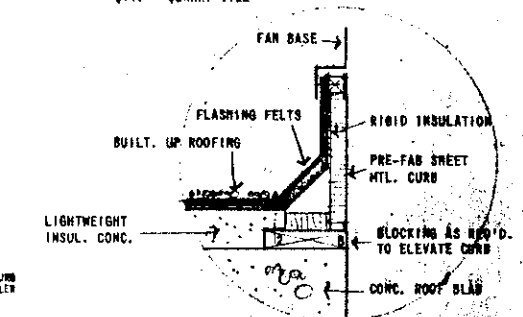
D BOILER STACK FLASHING DETAIL
1 1/2" = 1'-0"



A DUCT CAP DETAIL
1 1/2" = 1'-0"



B MECH. UNIT ROOF CURB DETAIL
1 1/2" = 1'-0"



C FAN CURB DETAIL
1 1/2" = 1'-0"

FINISH SCHEDULE						
	ROOM NAME	FLOOR	BASE	WALLS	CEILING	CLG. HT.
PUMP LEVEL	PUMP WELL #1 AND 2	CONC.	-	CONC.	CONC.	(2)
	STORAGE & REPAIR	CONC.	-	CONC. BRICK	CONC.	(2)
	MACHINES ROOM	CONC.	-	CONC./BRICK	CONC.	(2)
	BLAMP ROOM	CONC.	-	CONC./BRICK	CONC.	(2)
INTERM. LEVEL	BOILER AREA	CONC.	-	CONC. BRICK	CONC.	(2)
	ELECTRICAL EQUIP. RM. #2	CONC.	-	CONC./BRICK	CONC.	(2)
	DEMATTING AREA	CONC.	-	CONC.	CONC.	(2)
	BLOWER ROOM 1 AND 2	CONC.	-	CONC.	CONC.	(2)
OPERATIONS LEVEL	HEADWORKS OPERATION RM.	CONC.	-	CONC.	CONC.	(2)
	CORRIDOR #1 AND 2	O.T.	-	CONC. BRICK	AC. TILE	CLG. HT. 8'-0" AND 10'-0"
	OFFICE	V.A.T.	-	BRICK	AC. TILE	8'-0"
	CONTROL ROOM	V.A.T. ON ACCESS FLR.	-	V.C.G.W.B. CONC. BRICK	AC. TILE	8'-0"
	CONTROL EQUIP. ROOM	V.A.T. ON ACCESS FLR.	-	V.C.G.W.B./BRICK	AC. TILE	8'-0"
	WOMEN'S TOILET	O.T.	-	BRICK	AC. TILE	8'-0"
	MEN'S TOILET	O.T.	-	BRICK	AC. TILE	8'-0"
	ELECTRICAL EQUIP. RM. #1	CONC.	-	CONC./BRICK	CONC.	(2)
	UTILITY ROOM	CONC.	-	CONC.	CONC.	(2) FLOOR SLIPPER TO DRAIN
	OBSERVATION MALE #1 & 2	O.T.	-	CONC. BRICK	CONC.	(2)
NEZZ.	TRUCK LOADING AREA	CONC.	-	CONC. BRICK	CONC.	(2)
	EQUIPMENT ROOM	CONC.	-	CONC. BRICK	CONC.	(2)
MISC.	STAIR 5-1	CONC.	-	CONC. BRICK	CONC.	(2)

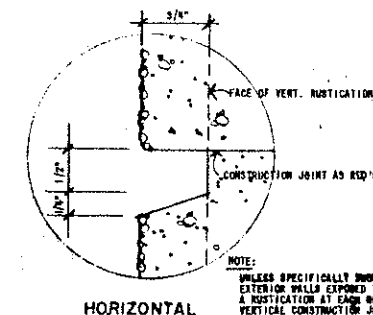
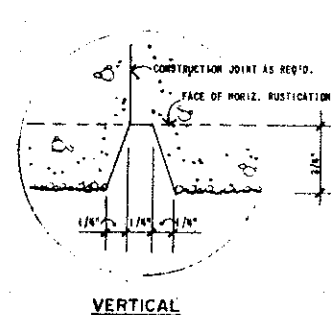
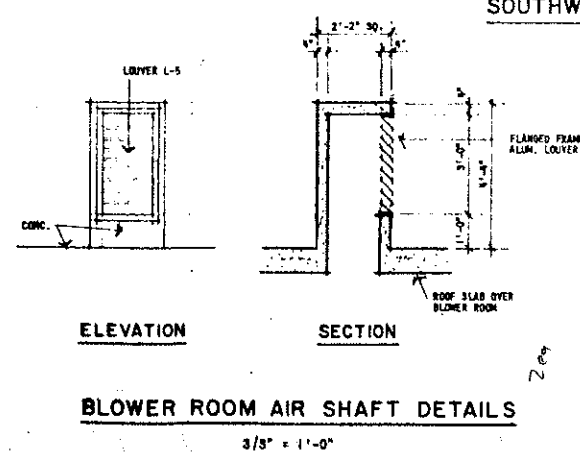
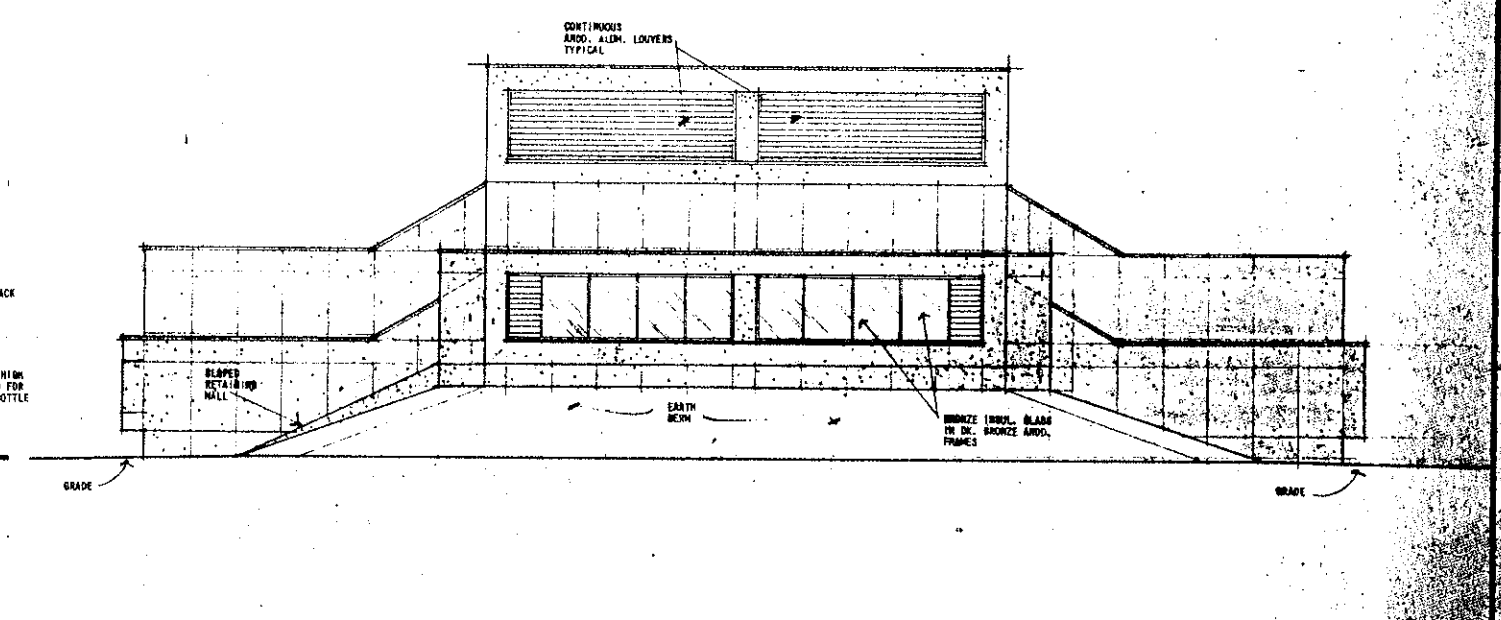
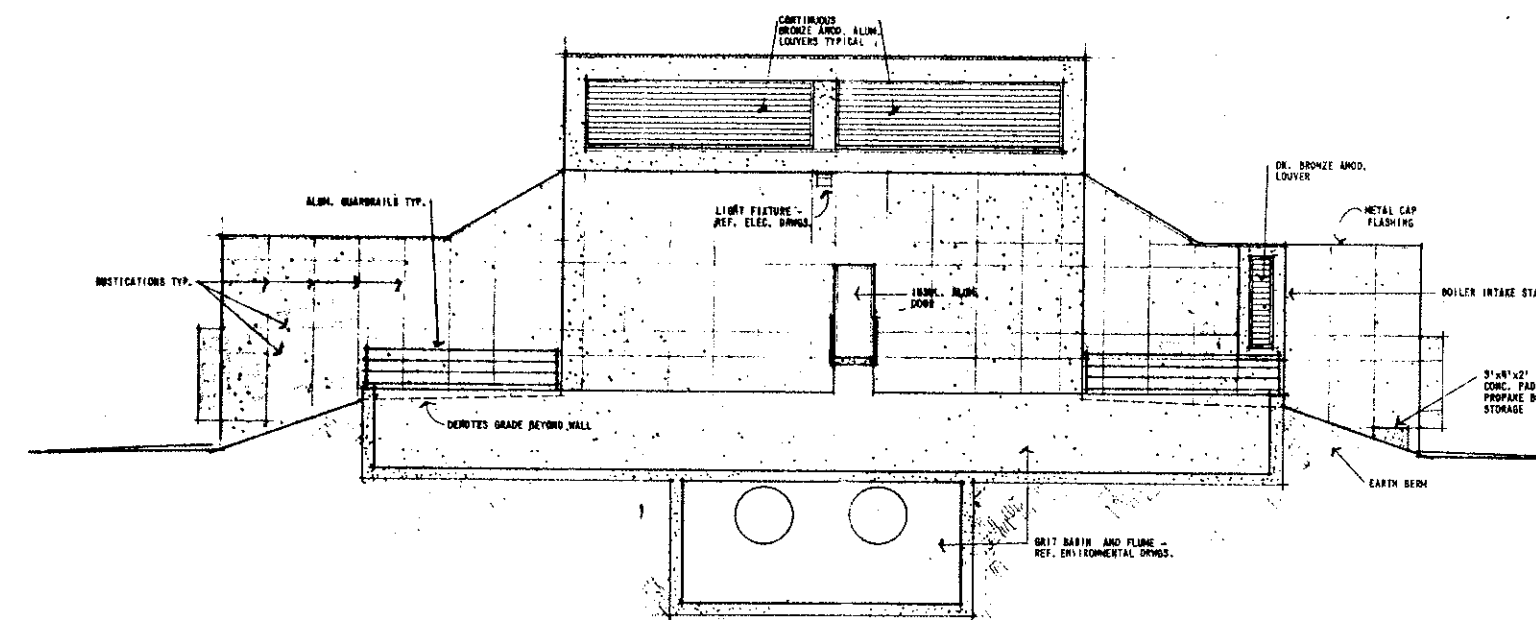
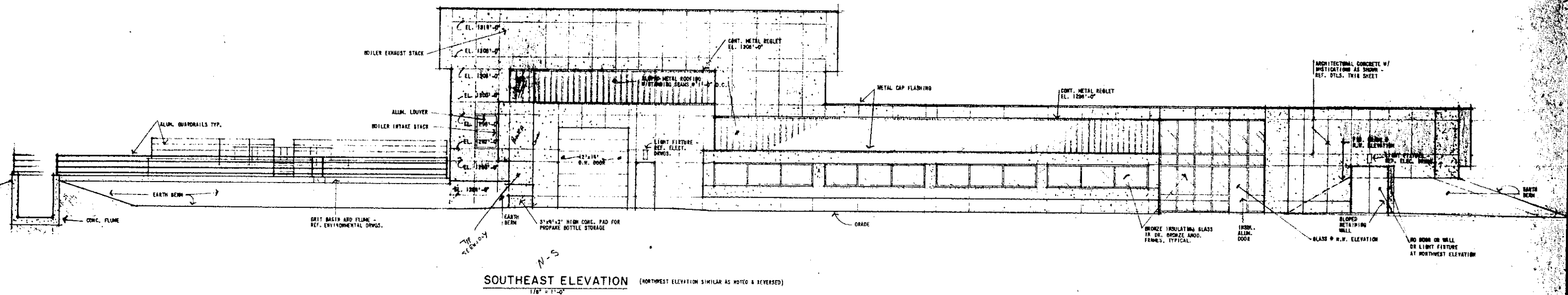
- NOTES:
- BRICK AS SCHEDULED INDICATES 8" JUMBO BRICK. SEE SPECS.
 - CLG. HT. VARIES AS STRUCTURED.
 - ABBREVIATIONS:
 - AC. - ACOUSTICAL
 - CONC. - CONCRETE
 - FLR. - FLOOR
 - V.A.T. - VINYL ASBESTOS TILE
 - V.C.G.W.B. - VINYL COVERED GYPSUM WALLBOARD
 - O.T. - QUARRY TILE

- NOTES TO PLAN
- "T.I.C." DENOTES "THICKNESS OF LIGHTWEIGHT INSULATING CONCRETE".

REMOVED BOILER STACK	APR. 76	JOB	DESIGN	DRWN	DATE
REVISION	DATE	BY			

WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
MEZZANINE ROOF PLAN AND FINISH SCHEDULE
ARCHITECTURAL

SHELLEY & WILSON
ENGINEERS-ARCHITECTS-PLANNERS



NOTE:
UNLESS SPECIFICALLY SHOWN OTHERWISE, INTERIOR AND EXTERIOR WALLS EXPOSED TO VIEW SHALL HAVE A RUSTICATION AT EACH HORIZONTAL AND VERTICAL CONSTRUCTION JOINT. CONSTRUCTION JOINTS SHALL BE RESTRICTED TO THE LOCATIONS INDICATED. APPROVAL FROM THE ARCHITECT IS NECESSARY FOR USING ADDITIONAL CONSTRUCTION JOINTS.

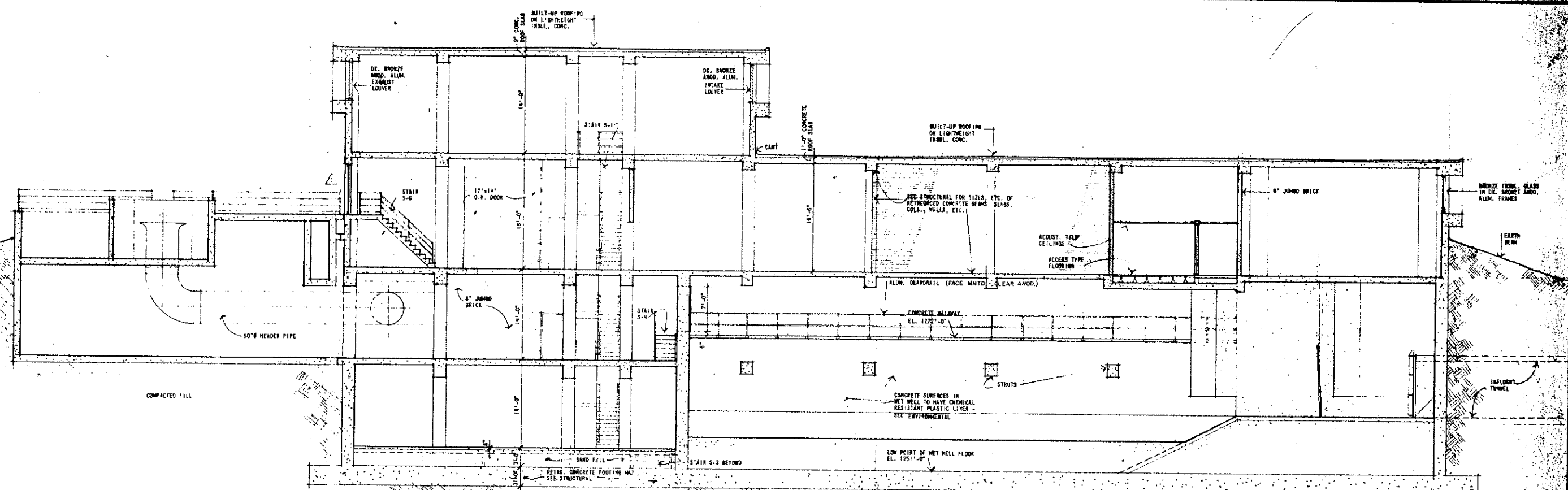
REVISION	DATE	BY

WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
BUILDING ELEVATIONS
ARCHITECTURAL

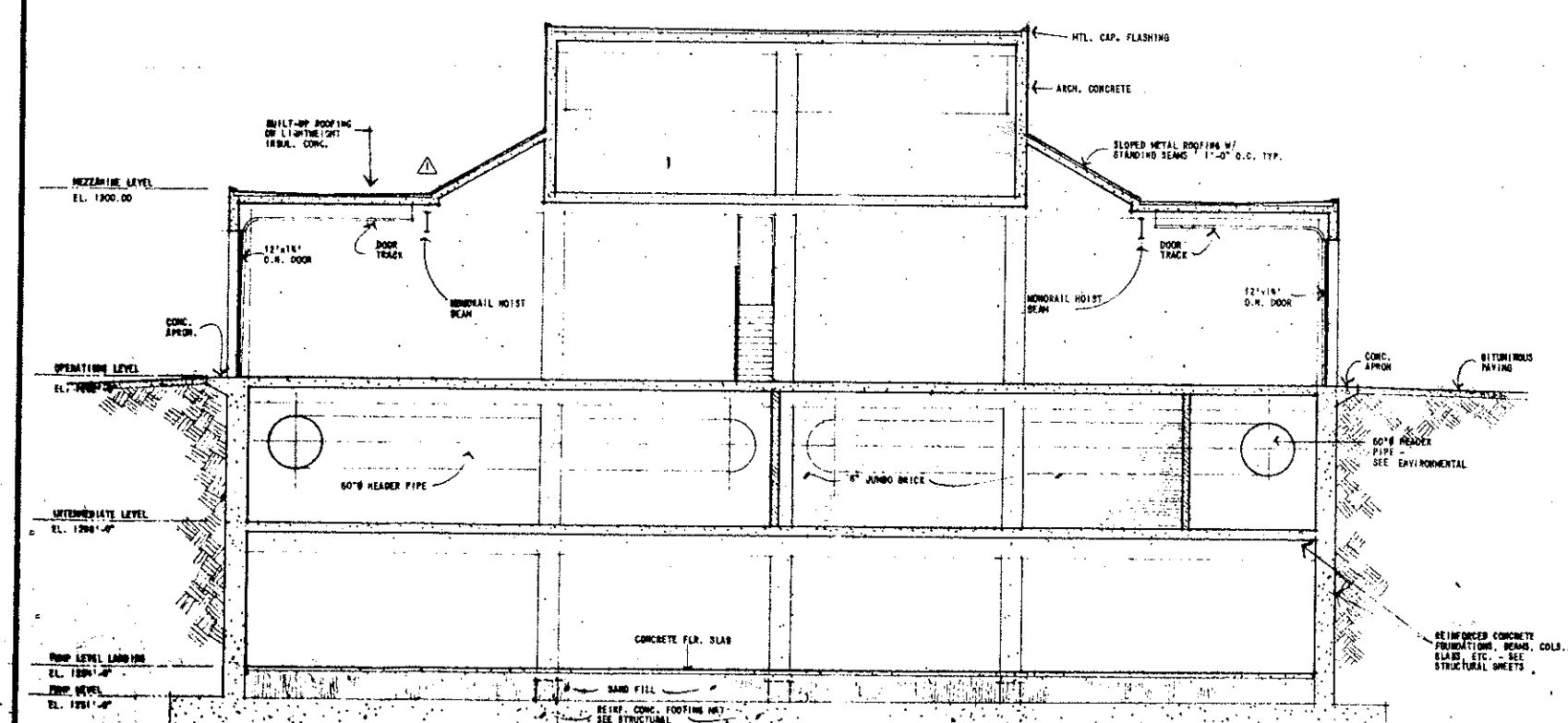
DESIGN: RMM
DRAWN: RMM

SHIRLEY WILSON
ENGINEER-ARCHITECT-PLANNER

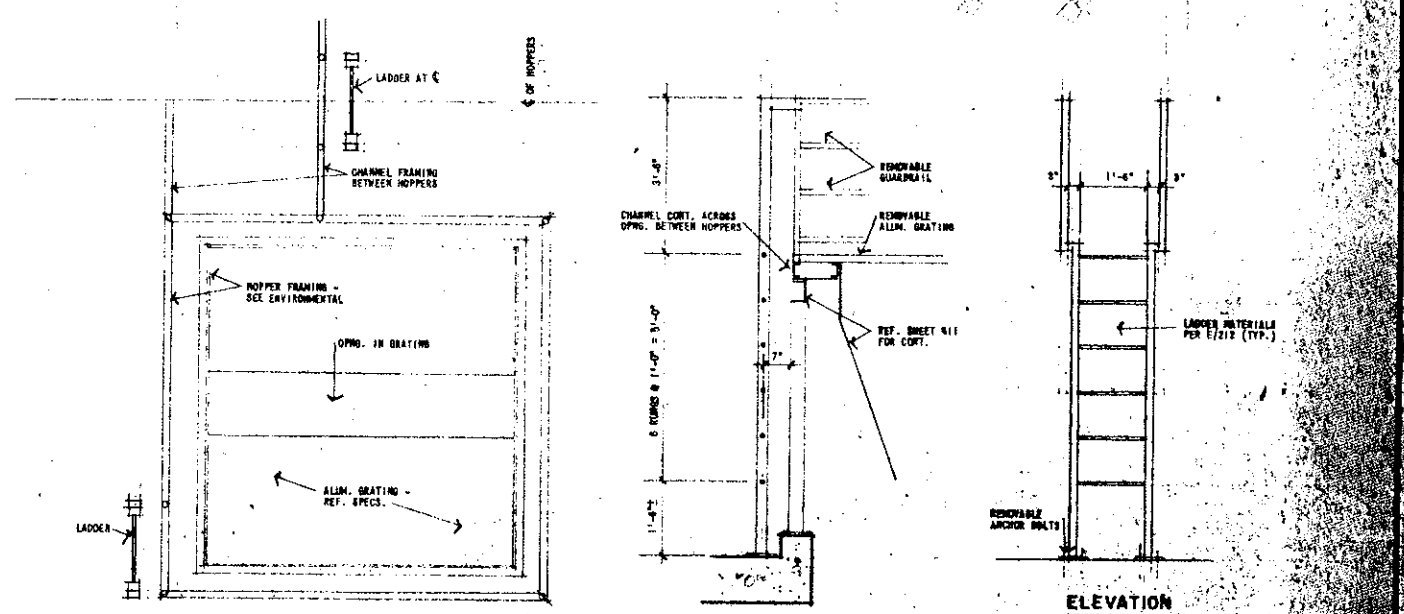
DATE: FEB 1971
FILE NO: 11-111
SHEET NO: 11



A LONGITUDINAL SECTION
1/8" = 1'-0"



B CROSS SECTION
1/8" = 1'-0"

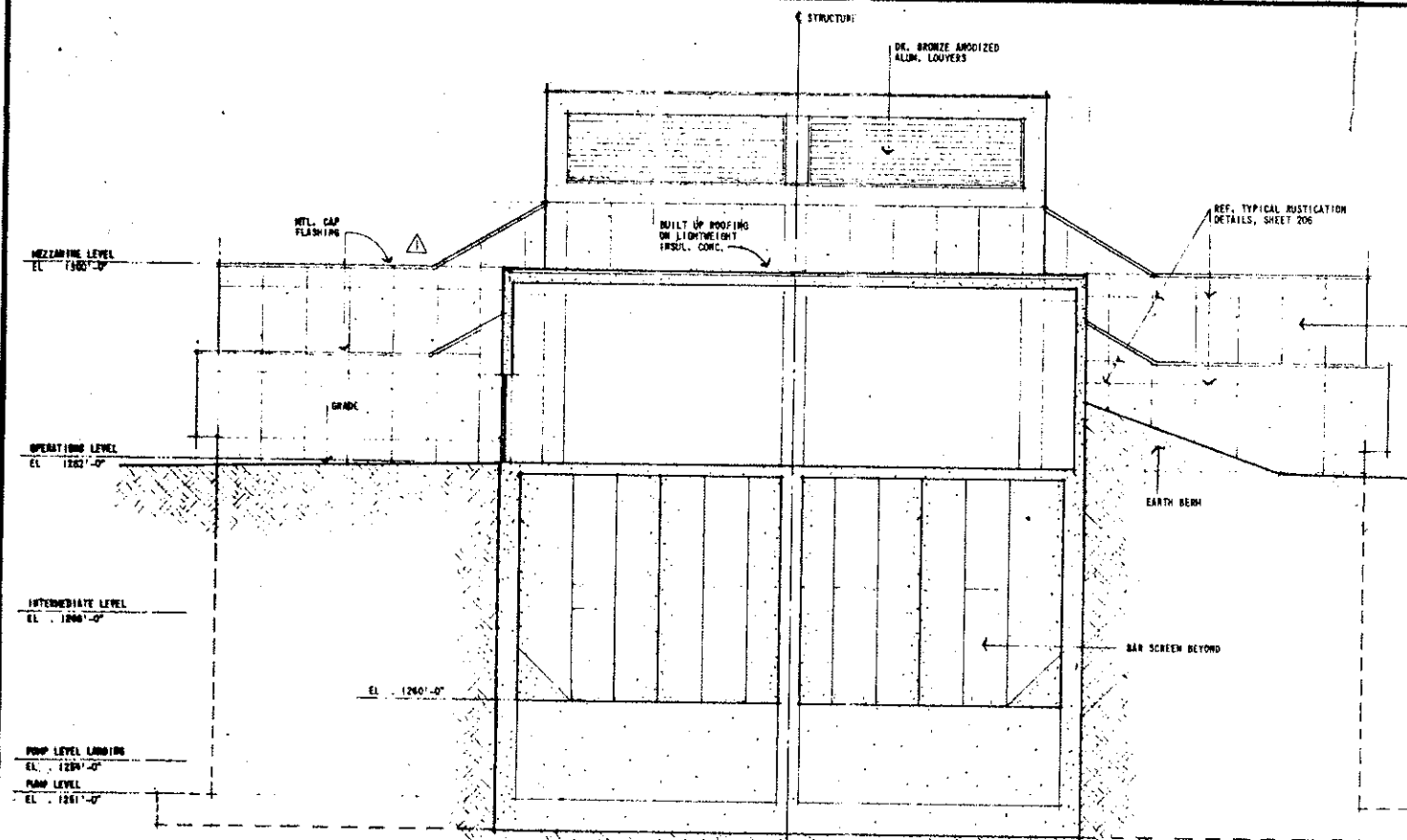


C MAINTENANCE PLATFORM DETAILS
1/2" = 1'-0"

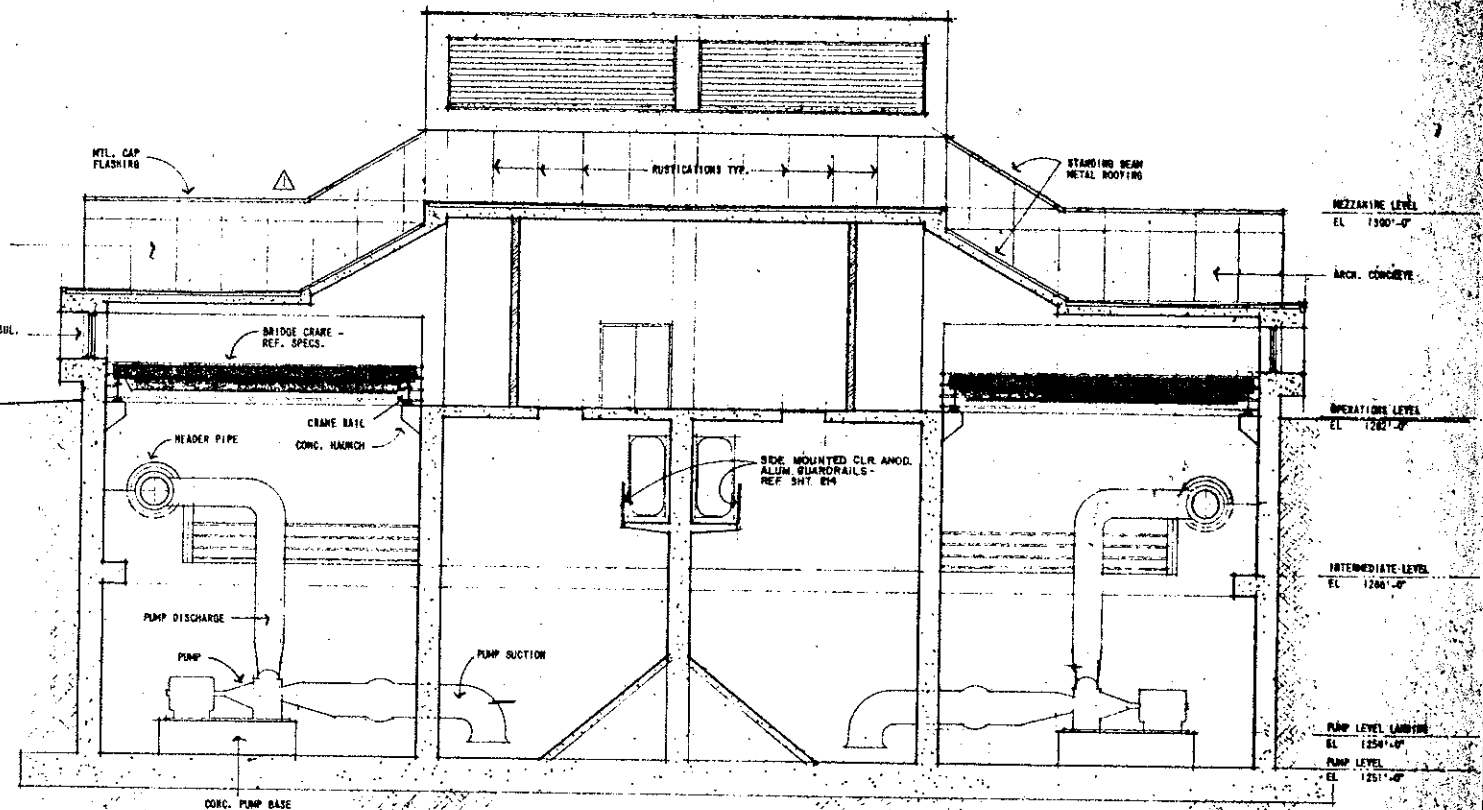
REVISION				DATE		BY		CHECKED		DATE		BY		CHECKED	
1	REMOVED BOILER STACK	APR. 78	JOB	DESIGN	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
2															
3															
4															
5															
6															
7															
8															
9															
10															

WICHITA, KANSAS
 PLANT NO. 1 PUMPING STATION
 BUILDING SECTIONS
 ARCHITECTURAL

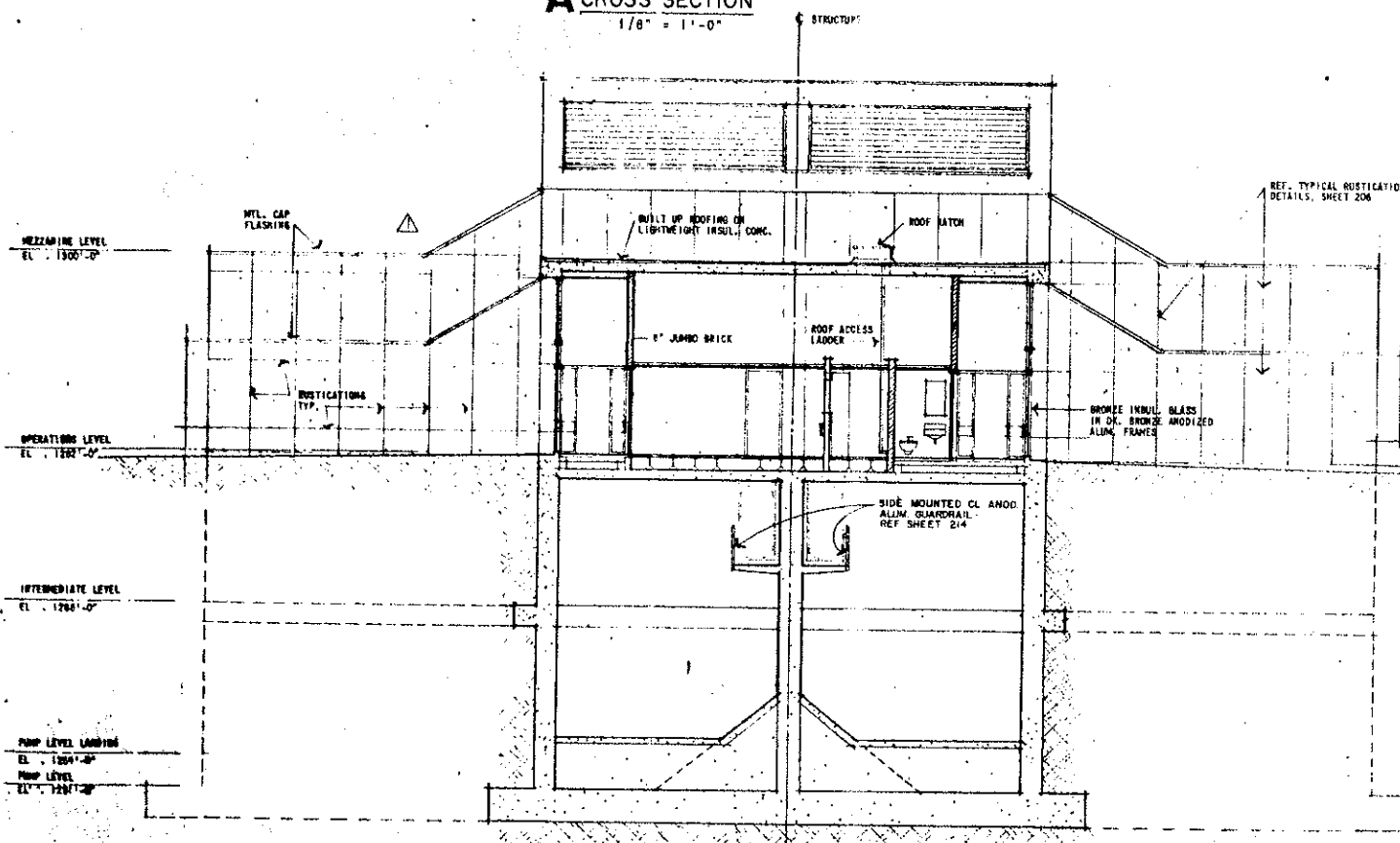
SHERRY-WILSON
 ENGINEERS-ARCHITECTS-PLANNERS
 1059
 STATE OF KANSAS



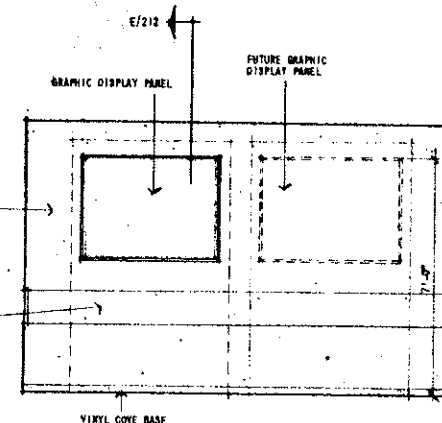
A CROSS SECTION
1/8" = 1'-0"



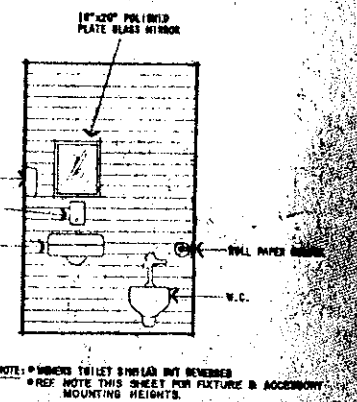
B CROSS SECTION
1/8" = 1'-0"



C CROSS SECTION
1/8" = 1'-0"



D WALL ELEVATION - CONTROL RM.
3/8" = 1'-0"



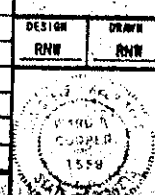
E WALL ELEVATION - M.T.
3/8" = 1'-0"

NOTE TO TOILET ROOMS:

TYPICAL FIXTURE AND ACCESSORY MOUNTING HEIGHTS FROM FINISH FLOOR ARE AS FOLLOWS:

LAVATORY	2'-7" TO RIM
SOAP DISPENSER	3'-6" TO CENTER
TOWEL DISPENSER	4'-0" TO BOTTOM
MIRROR	4'-0" TO BOTTOM
ROLL PAPER HOLDER	2'-6" TO CENTER

REMOVED BOILER STACK	APR. 78	JGG
REVISION	DATE	BY

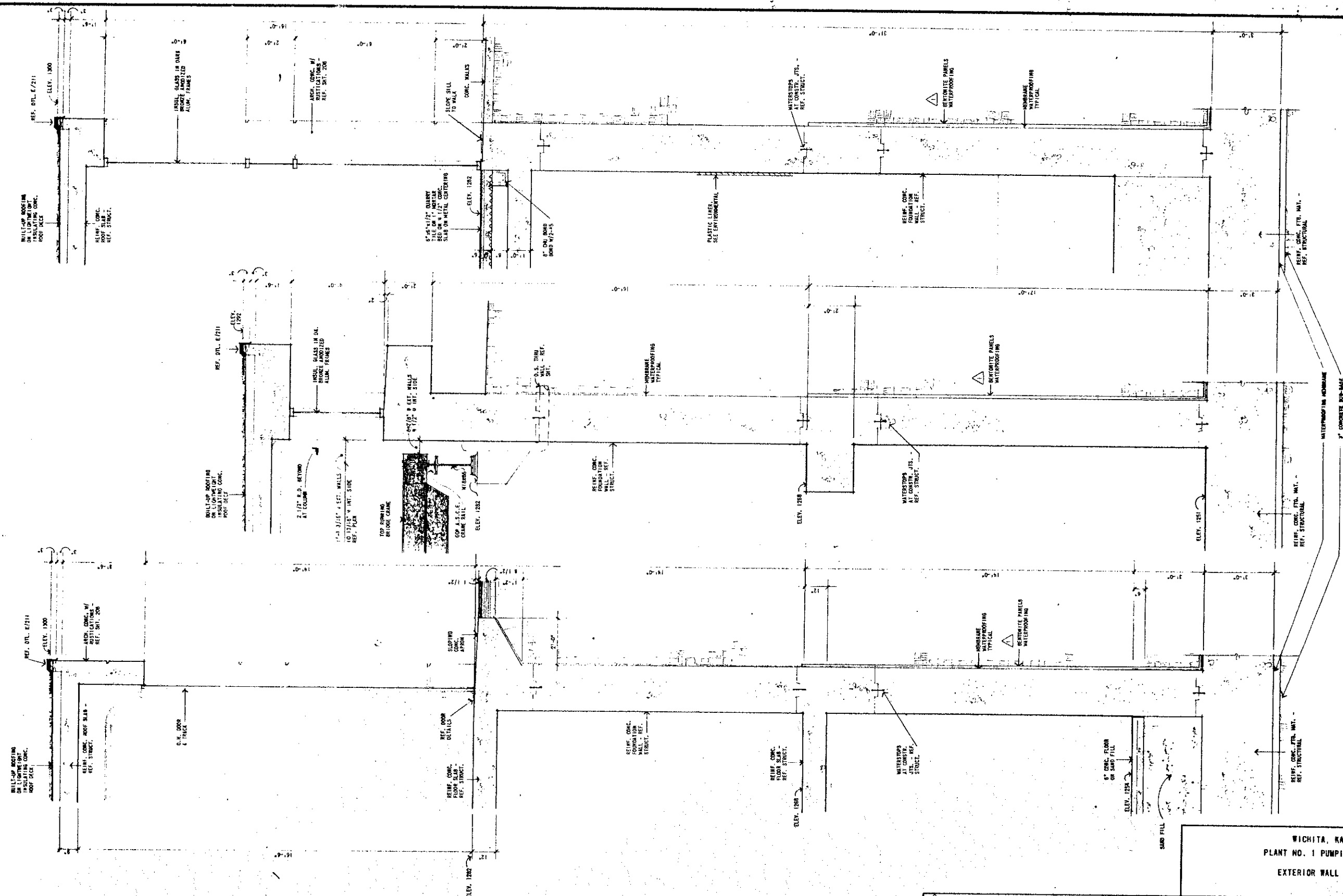


WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
BUILDING SECTIONS
ARCHITECTURAL



SHIRLEY WILSON
ENGINEERS-ARCHITECTS-PLANNERS

DRAWN BY
DATE
TIME
SHEET NO.
OF 278



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

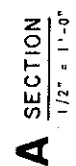
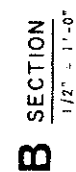
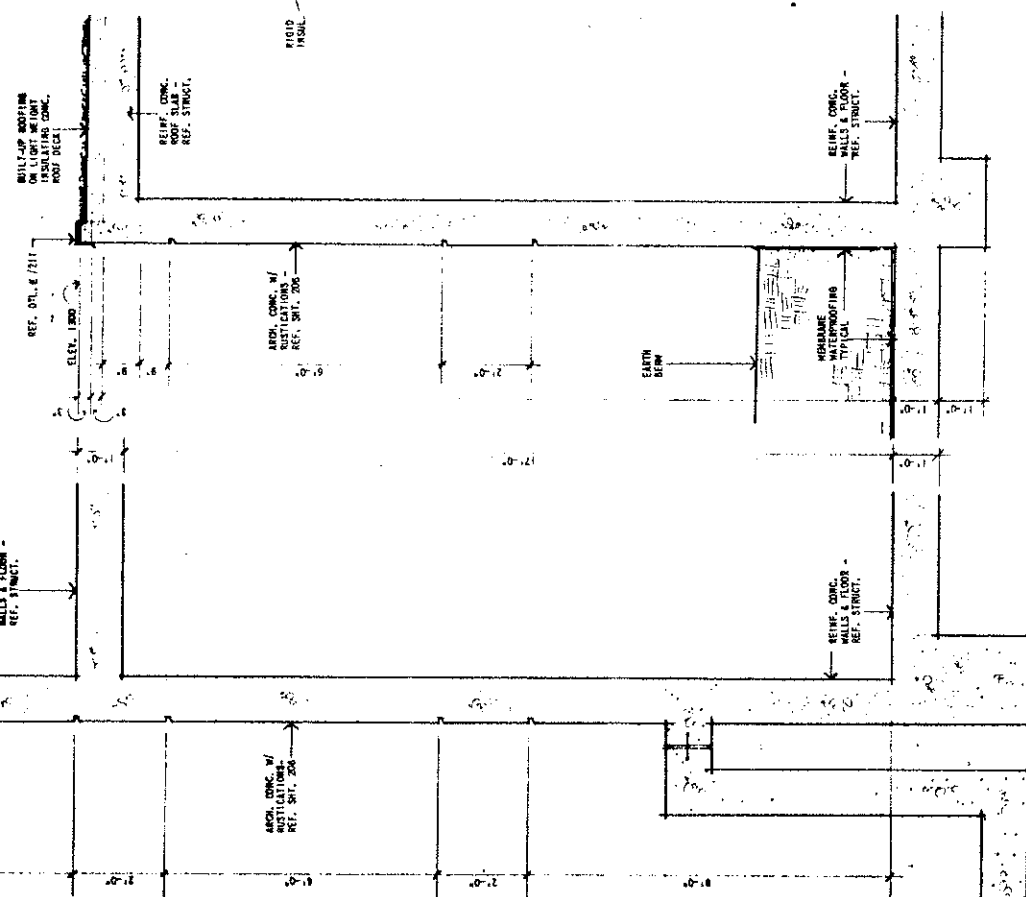
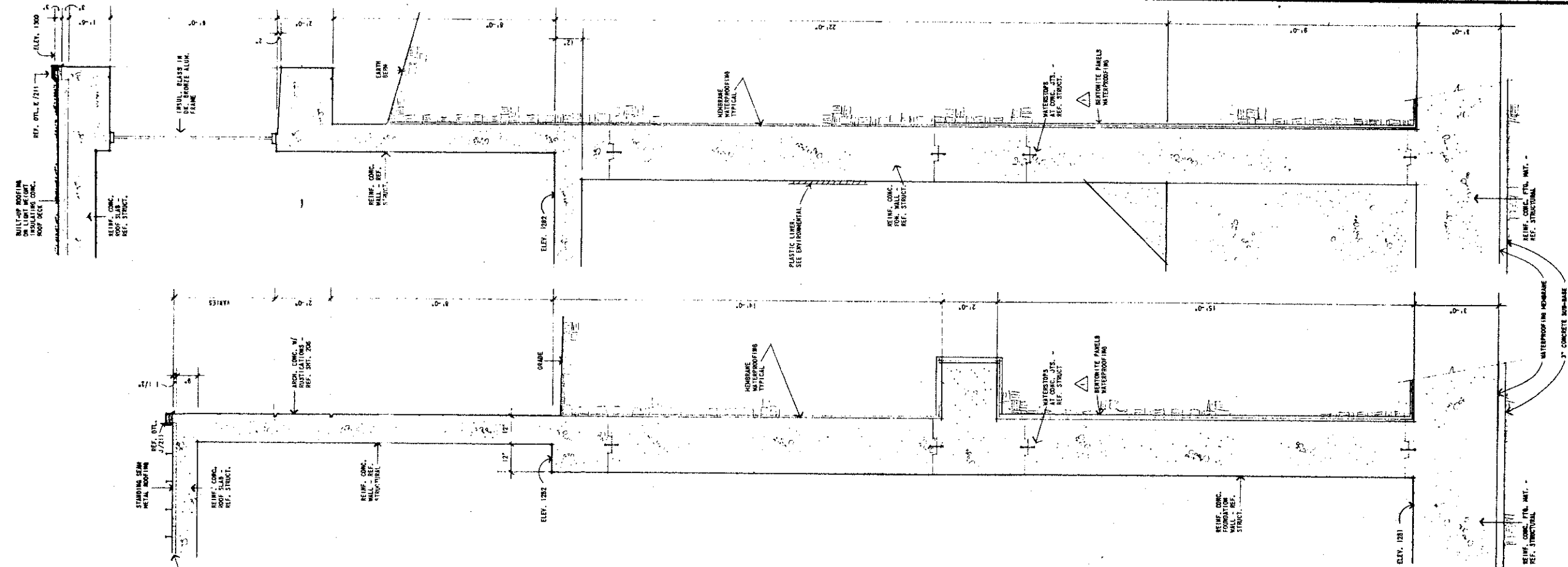
B SECTION
1/2" = 1'-0"

A SECTION
1/2" = 1'-0"

WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
EXTERIOR WALL SECTIONS

ADD BENTONITE PANELS	APR. 78	JGG
REVISION	DATE	BY

DESIGN WEM	DRAWN WEM	DATE SEP 1 1977
		FILE NO. 78-001A
SHELLEY-WILSON ENGINEERS-ARCHITECTS-PLANNERS 801 S. W. 10th St., Suite 200, Kansas City, MO 64101		SHEET NO. 250 OF 250



 ADD BENTONITE PANELS	APR. 78	JG
REVISION	DATE	BY

DESIGN WEM	DRAWN WEM
---------------	--------------

1950



SHELLEY-W
ENGINEERS-ARCHITECTS

DESIGN • CONSTRUCTION • MAINTENANCE

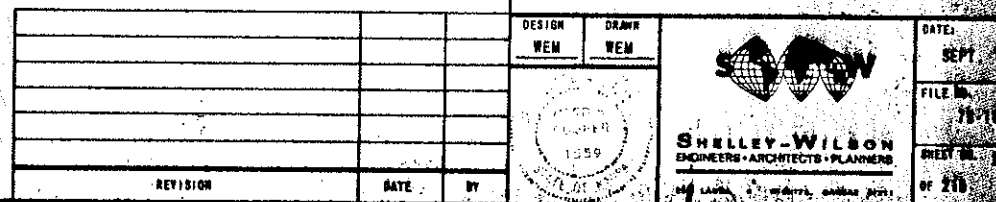
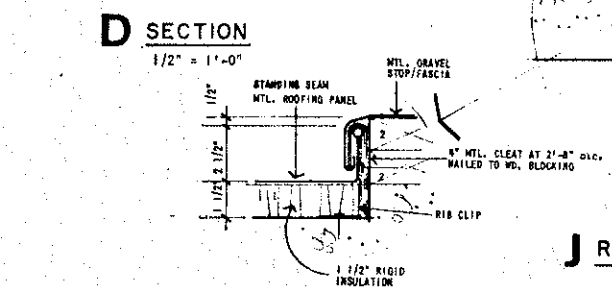
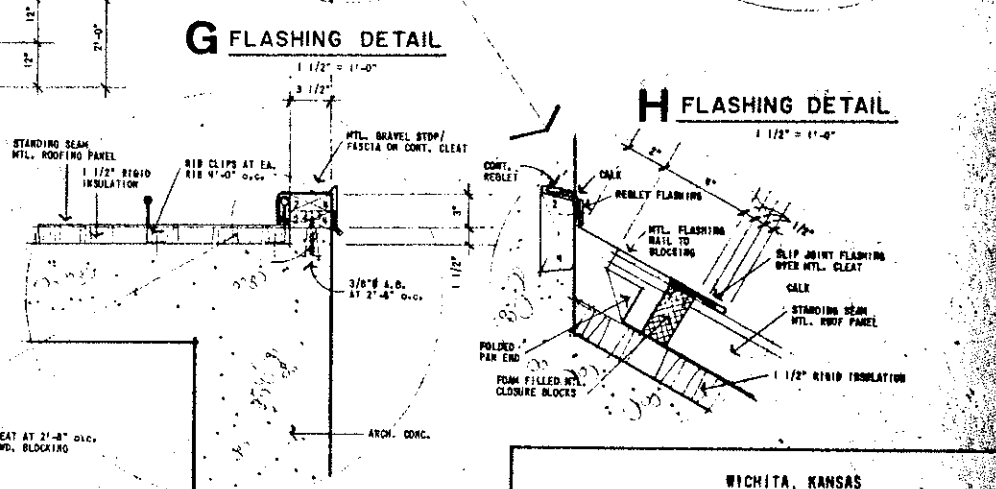
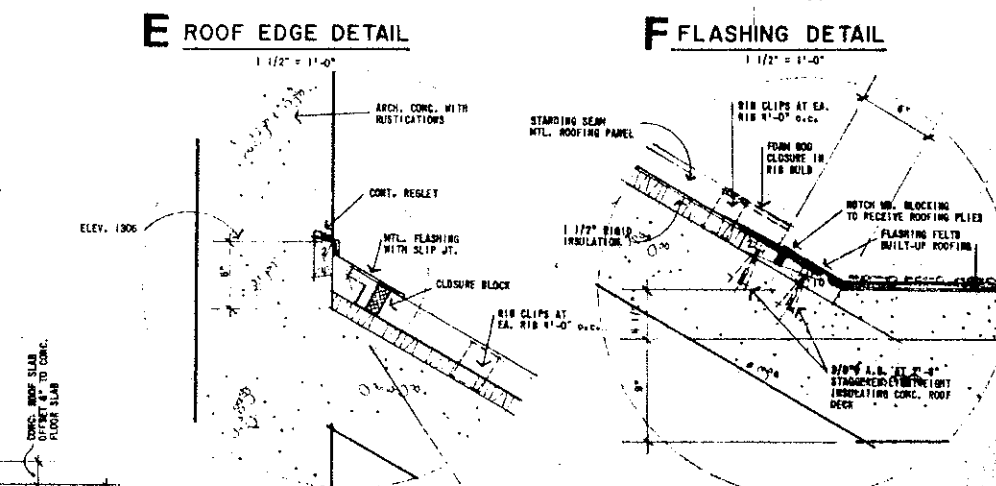
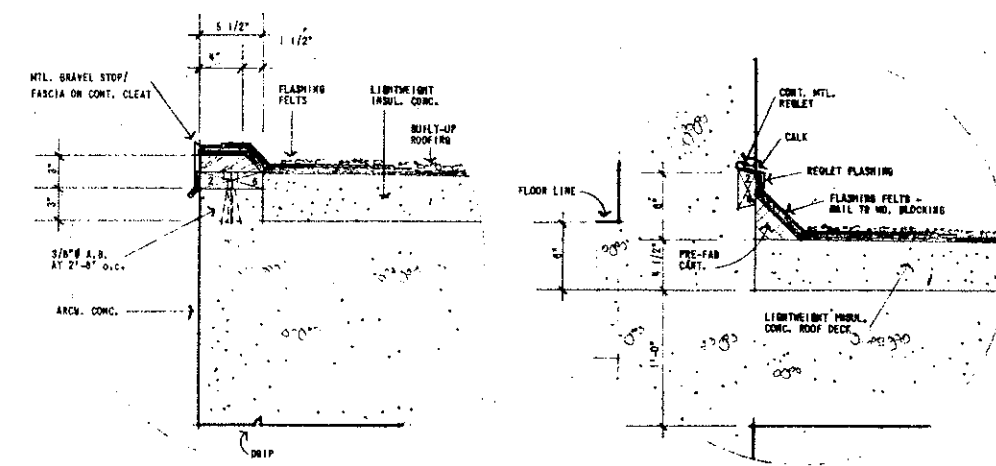
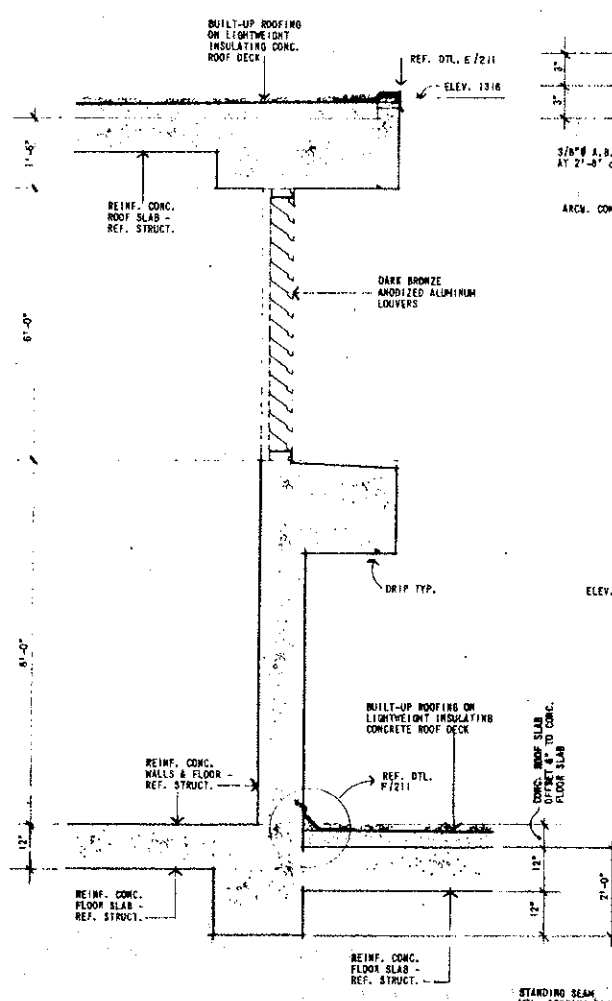
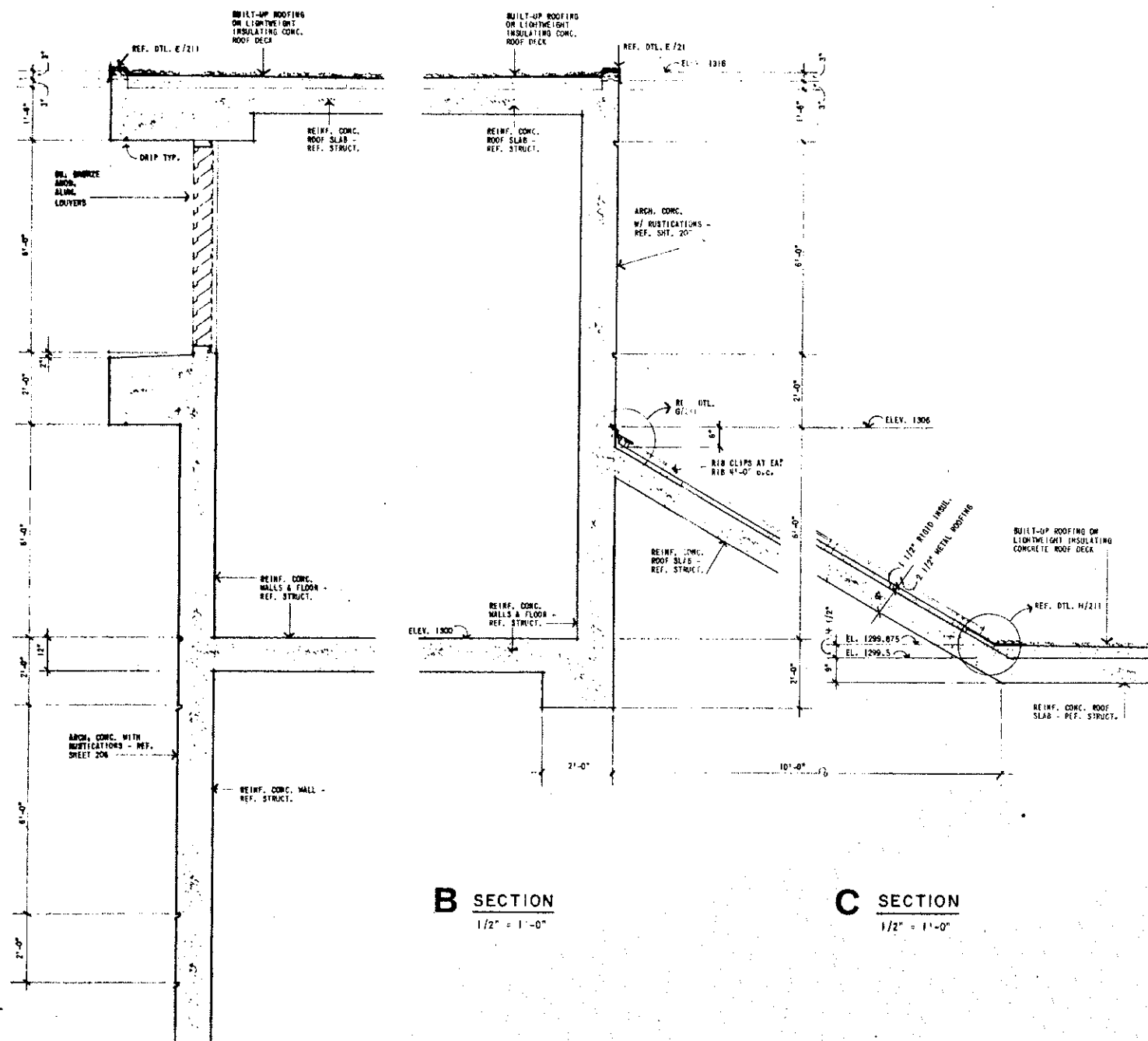
 WILSON & PLANNERS ARCHITECTS	DATE:	SEPT. 1977
	FILE NO.	75-1010
	SHEET NO.	210
	OF	210

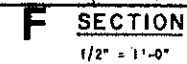
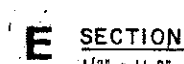
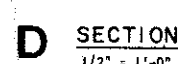
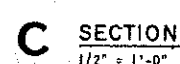
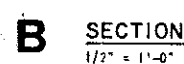
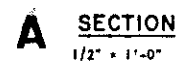
WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
EXTERIOR WALL SECTIONS

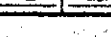


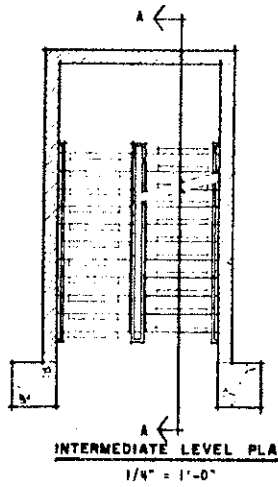
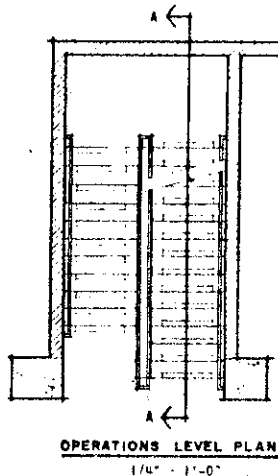
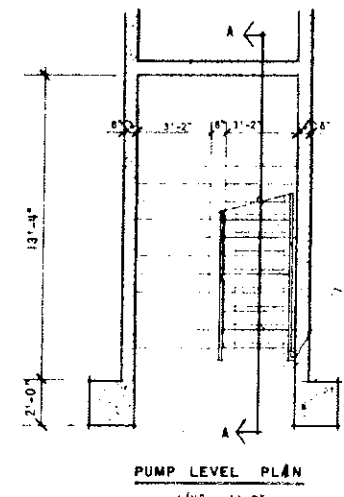
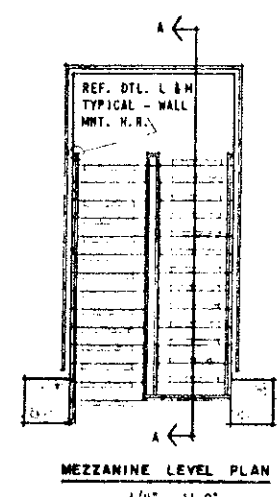
SHELLEY-WILSON
ENGINEERS • ARCHITECTS • PLANNERS

DOE LAURA • 800-755-4611

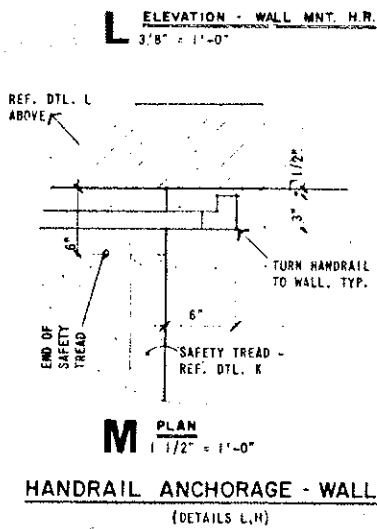
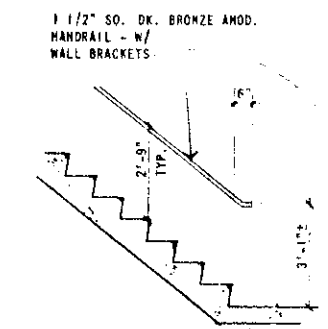




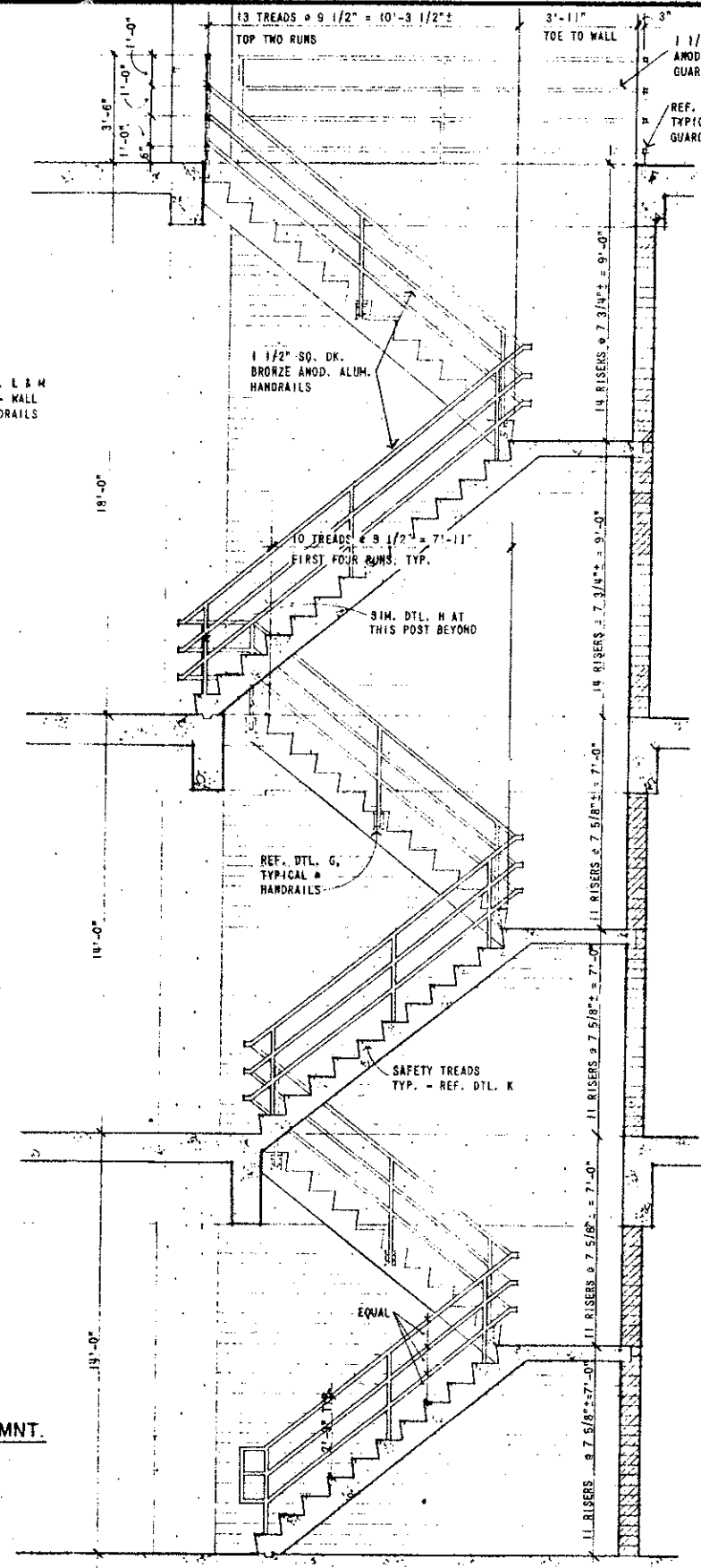
DESIGN MLP	DRAWN MLP	 SHELLEY-WILSON ENGINEERS • ARCHITECTS • PLANNERS INCORPORATED 304 LAUREL & MONROE, SUITE 201 LOS ANGELES, CALIF. 90007	DATE SEPT. 1977
			FILE NO. 75-7015 SHEET NO. 212 OF 236



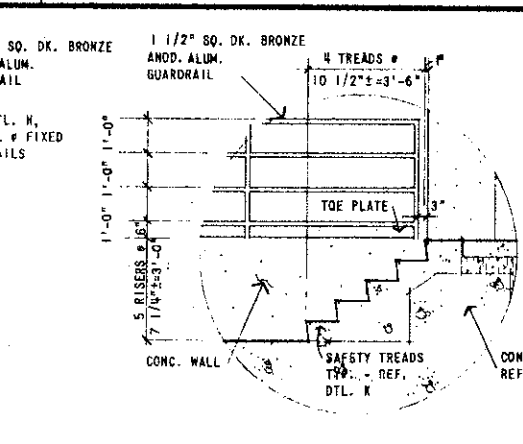
FLOOR PLANS AT STAIR S-1



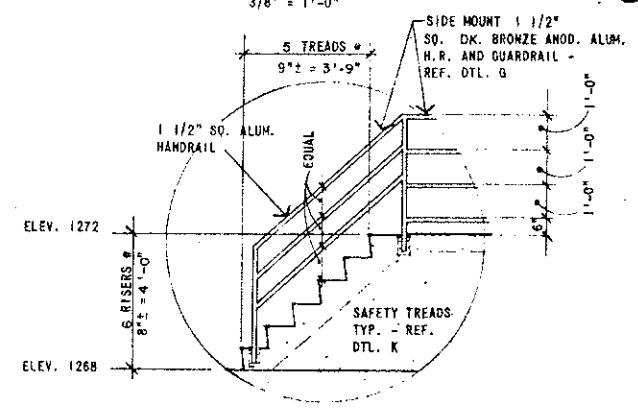
HANDRAIL ANCHORAGE - WALL MNT. (DETAILS L,M)



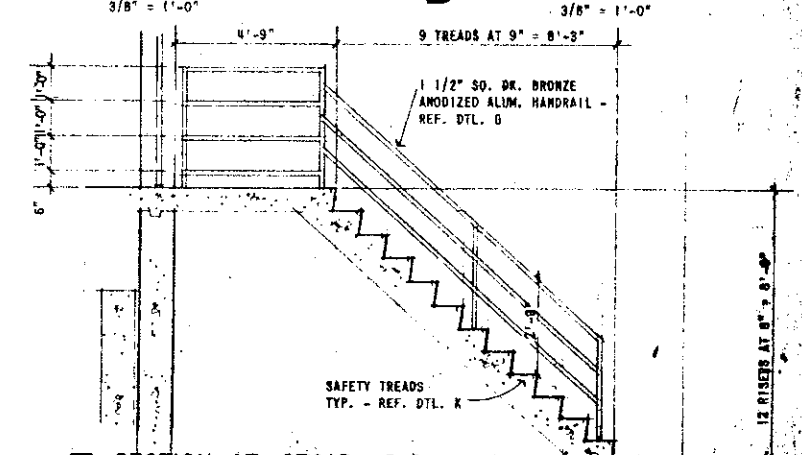
A SECTION AT STAIR S-1



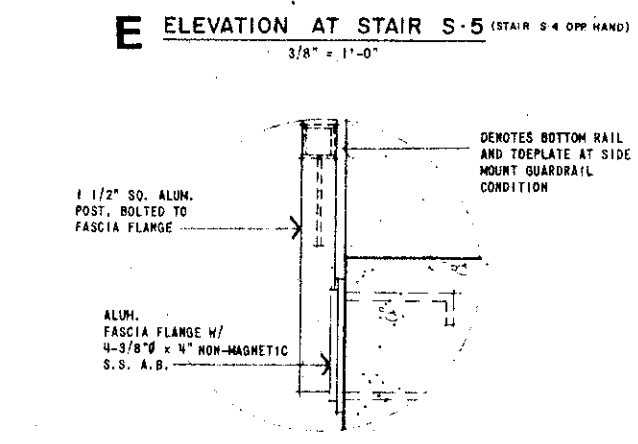
B SECTION AT STAIR S-2



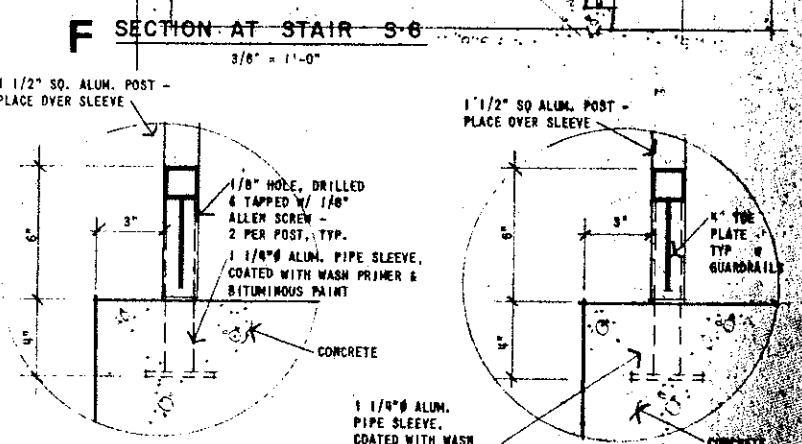
C SECTION AT STAIR S-3



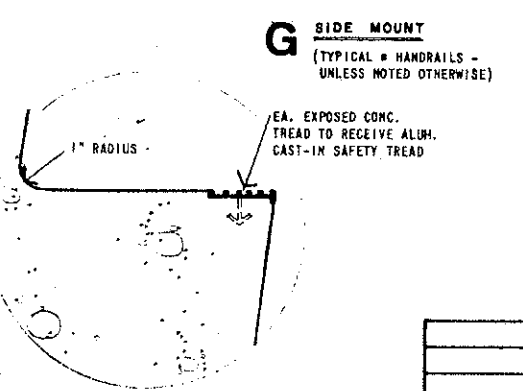
D PLAN AT STAIR S-3



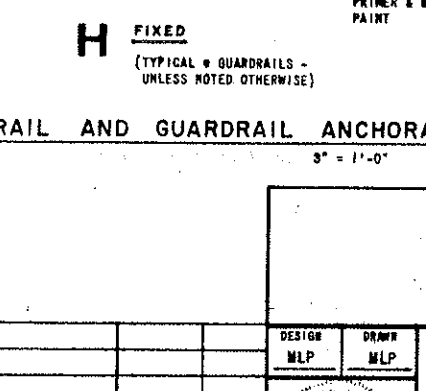
E ELEVATION AT STAIR S-5 (STAIR S-4 OPP. HAND)



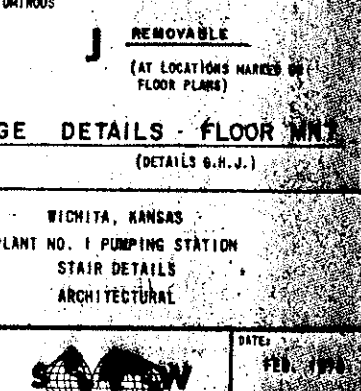
F SECTION AT STAIR S-6



G SIDE MOUNT (TYPICAL - HANDRAILS - UNLESS NOTED OTHERWISE)



H FIXED (TYPICAL - GUARDRAILS - UNLESS NOTED OTHERWISE)



J REMOVABLE (AT LOCATIONS MARKED ON FLOOR PLANS)

HANDRAIL AND GUARDRAIL ANCHORAGE DETAILS - FLOOR MNT. (DETAILS G,H,J.)

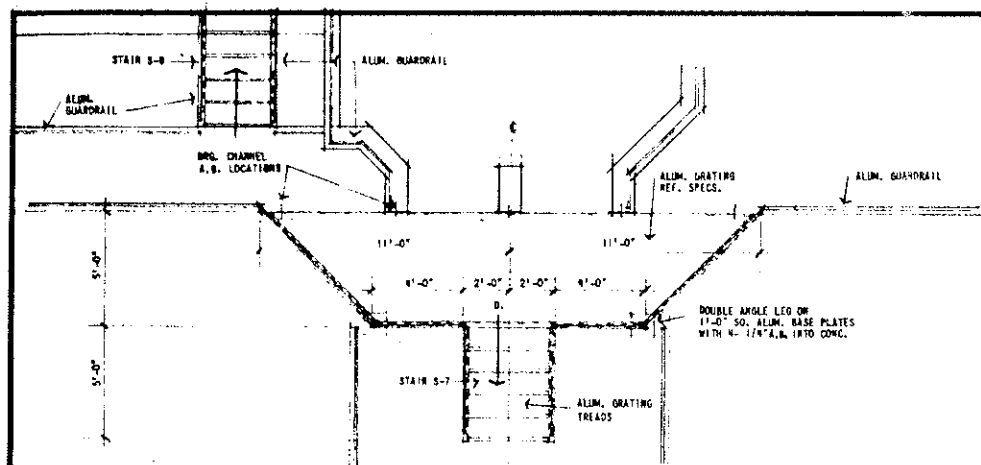
K SAFETY TREAD DETAIL

DESIGN		DRAW		DATE	FILE NO.	SHEET NO.	OF 2/3
MLP		MLP					
REVISION		DATE		BY			

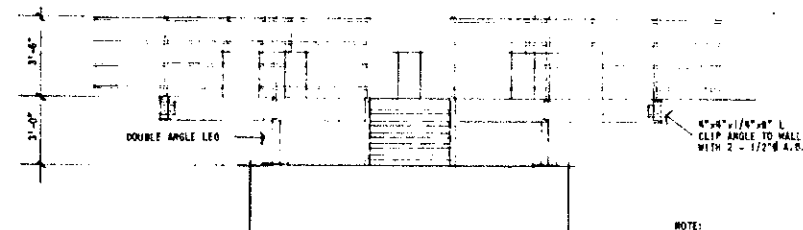
WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
STAIR DETAILS
ARCHITECTURAL

SHELLEY-WILSON
ENGINEERS-ARCHITECTS-PLANNERS

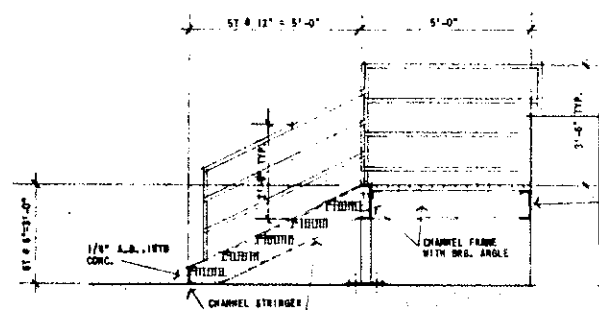
ONE LANDER • WICHITA, KANSAS 67201



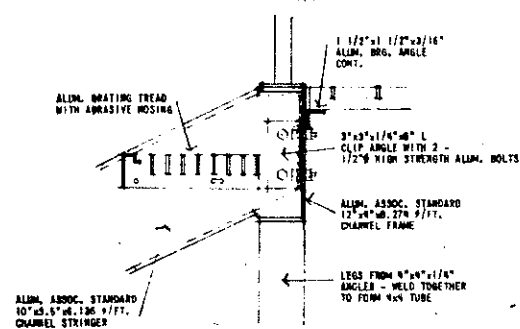
PLAN AT S-7 & S-9
1/4" = 1'-0"



ELEVATION
1/4" = 1'-0"

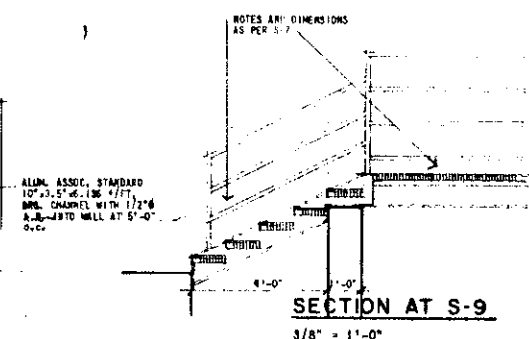


SECTION AT S-7
3/8" = 1'-0"



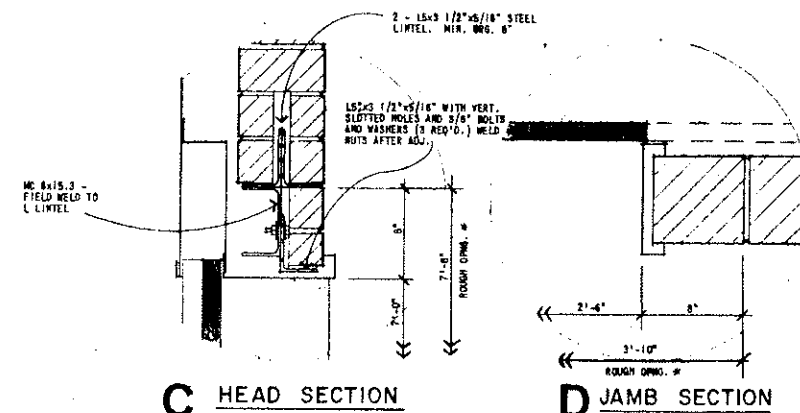
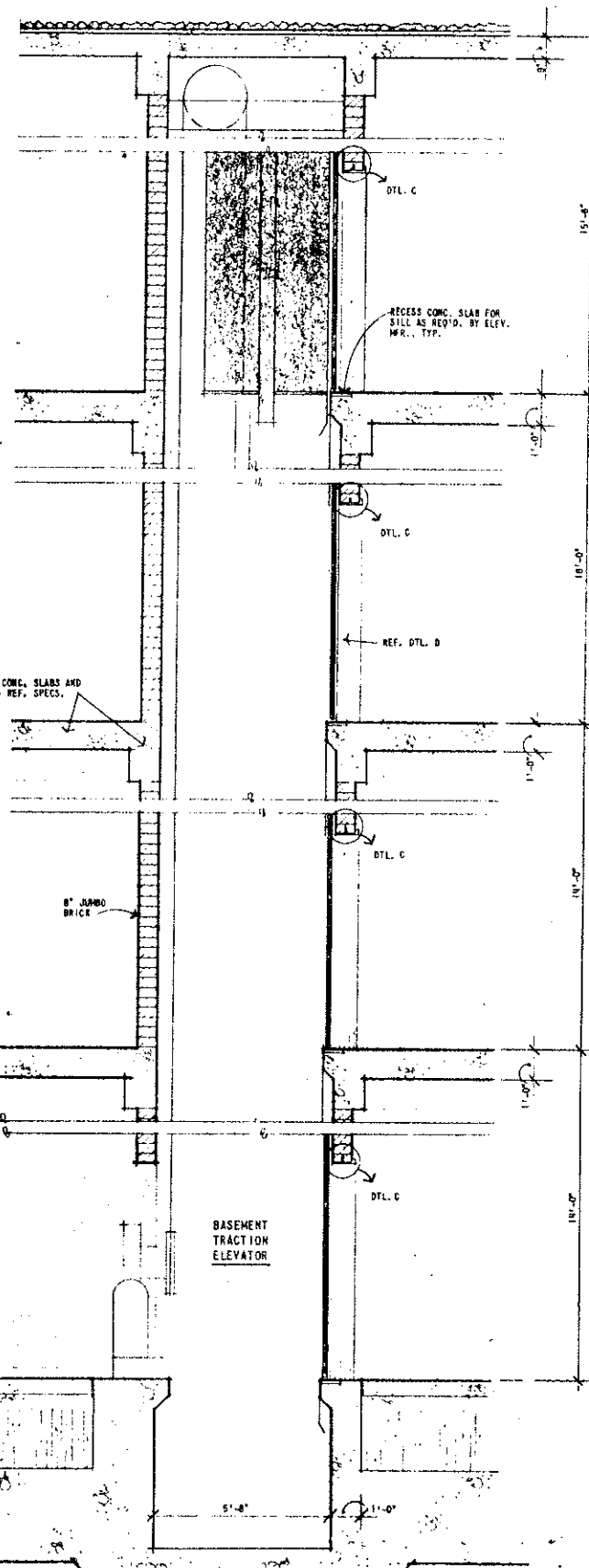
DETAIL
1/2" = 1'-0"

A STAIR S-7 DETAILS S-8, S-9, S-10 SIM
SCALE AS NOTED

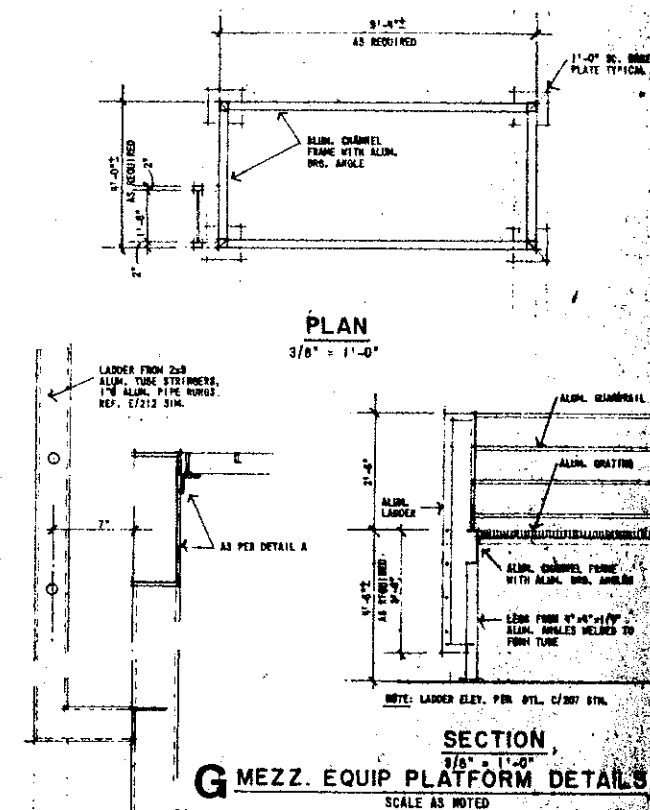
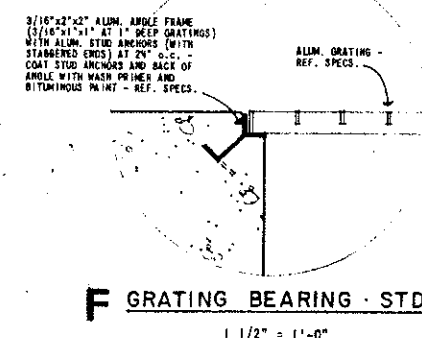


SECTION AT S-9
3/8" = 1'-0"

B SECTION THRU ELEVATOR
3/8" = 1'-0"



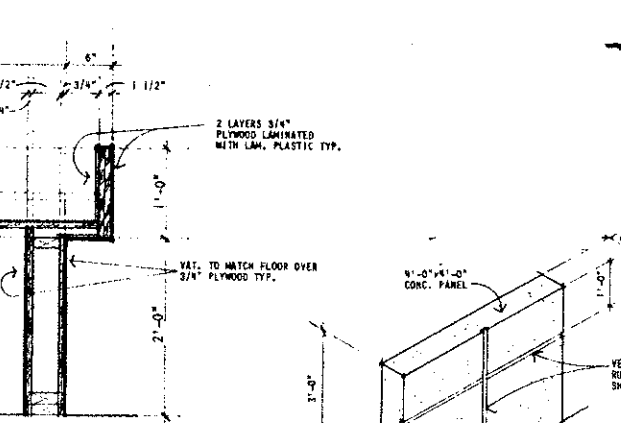
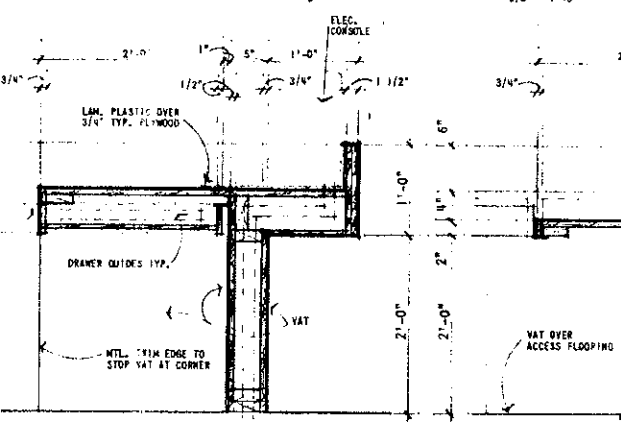
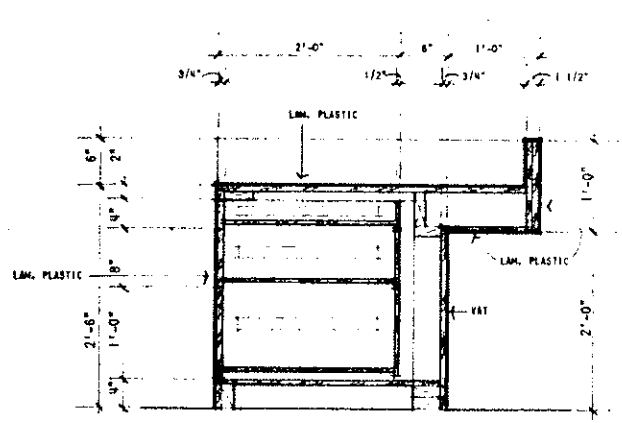
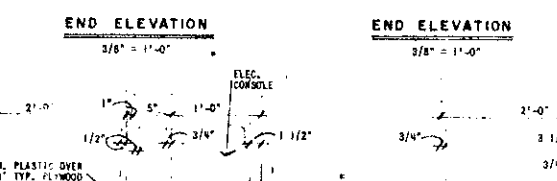
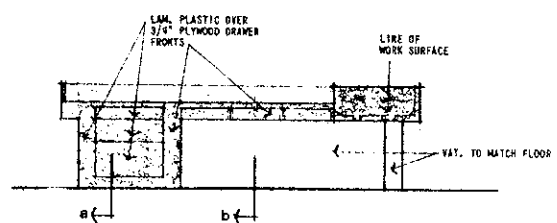
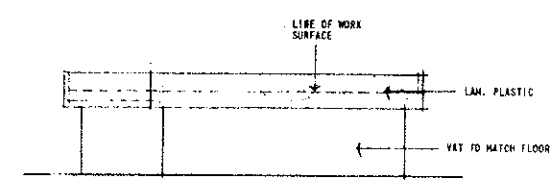
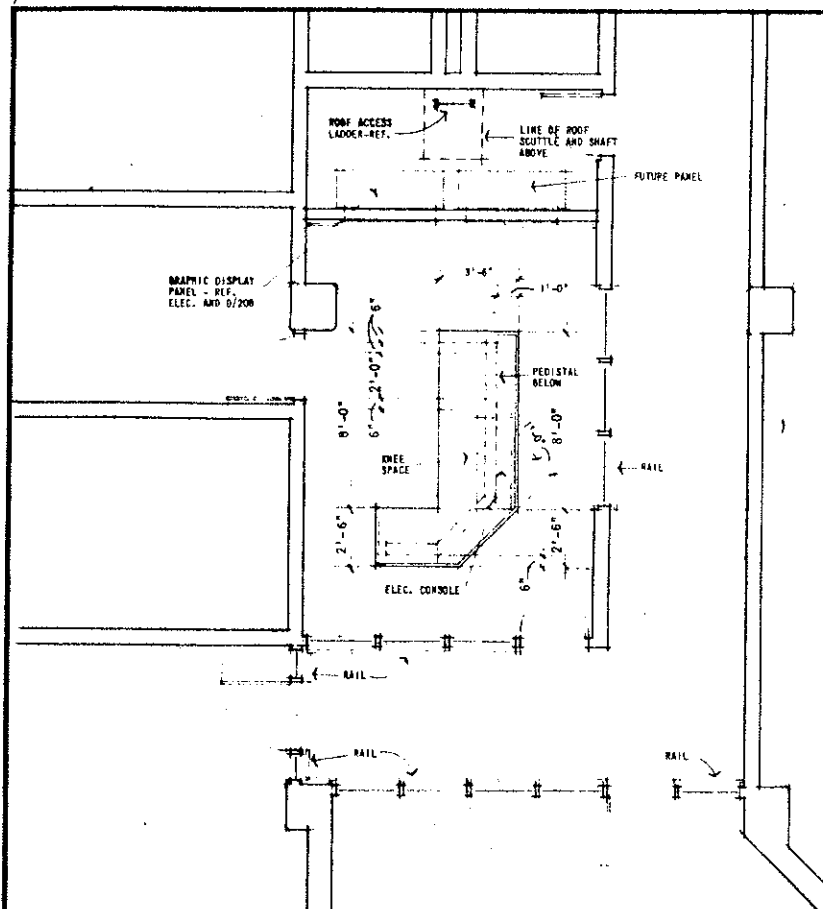
E GRATING BEARING - HIGH WALL
1/2" = 1'-0"



DETAIL
1/2" = 1'-0"

G MEZZ. EQUIP PLATFORM DETAILS
SCALE AS NOTED

WICHITA, KANSAS			PLANT NO. 1 PUMPING STATION		ELEVATOR AND MISCELLANEOUS DETAILS		ARCHITECTURAL	
DESIGN			DRAWN		DATE		FILE NO.	
MLP			MLP		FEB. 1971		38-1811	
REVISION			DATE		BY		SHEET NO. 211	
DATE			BY		SHEET NO. 211		OF 211	

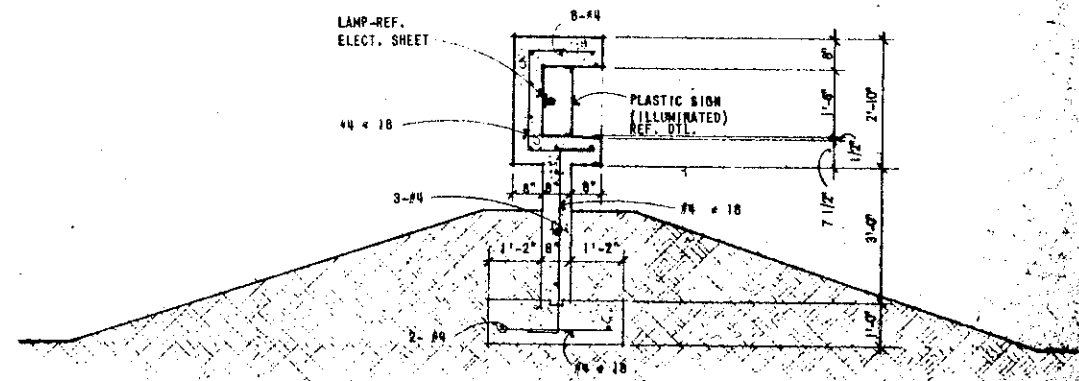
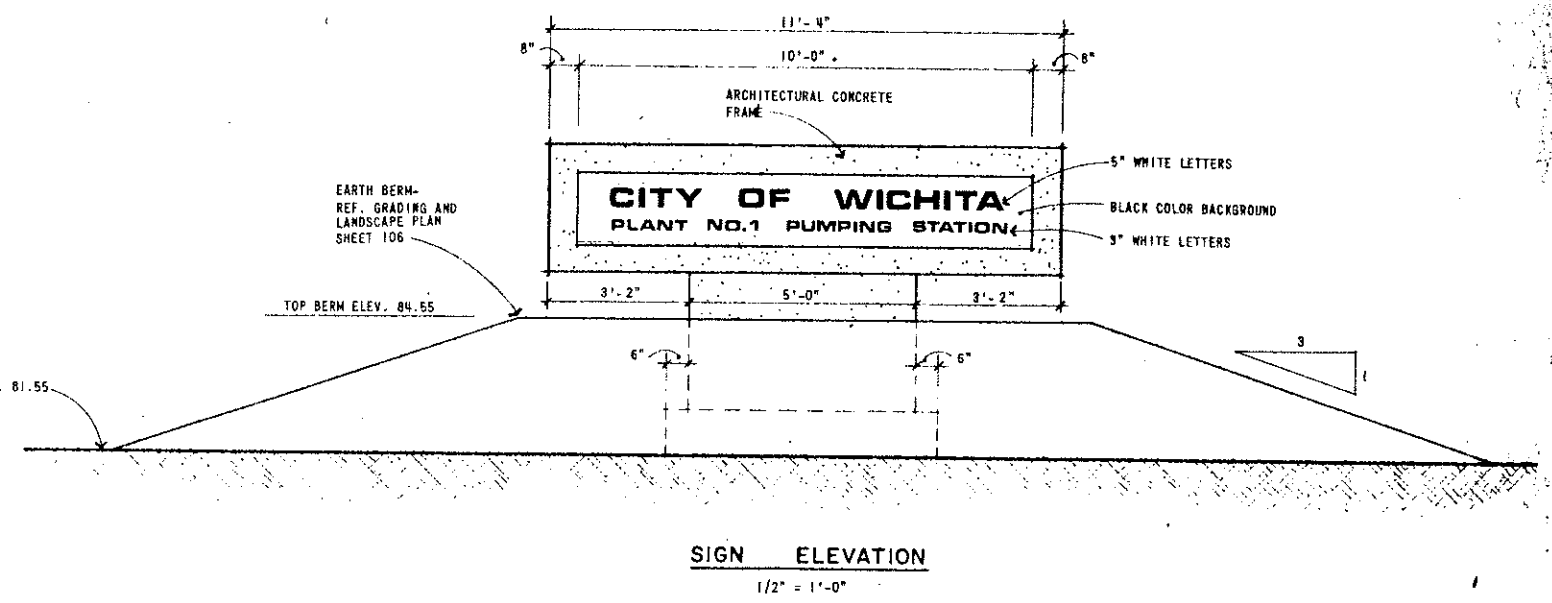


NOTE: DRAWER FRONTS TO BE LAM. PLASTIC OVER 3/4" PLYWOOD WITH RECESSED PULLS. REMAINDER OF DRAWER CONSTRUCTION TO BE 1/2" PLYWOOD. REF. SPECS. FOR PULLS AND GUIDES.

NOTE: DRILL AS REQUIRED TO PROVIDE ELEC. ACCESS TO ELEC. CONSOLE

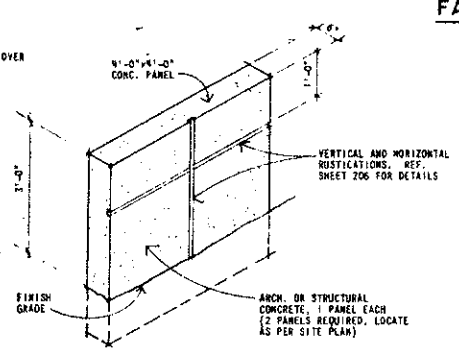
B CONTROL ROOM CONSOLE DETAILS

SCALE AS NOTED



FACILITY SIGN DETAILS

SCALE AS NOTED



WICHITA, KANSAS PLANT NO. 1 PUMPING STATION SIGN AND MISCELLANEOUS DETAILS ARCHITECTURAL			
DESIGN MLP	DRAWN MLP	DATE FEB. 1970	FILE NO. 75-1811
REGISTERED ARCHITECT WARD K. COOPER 1550 STATE OF KANSAS		SHEET NO. 210 OF 210	
SHELLEY & WILSON ENGINEERS-ARCHITECTS-PLANNERS		1000 LEXA - 0 - UNIVERSITY, KANSAS CITY	
REVISION	DATE	BY	

GENERAL NOTES

1. THE STRUCTURAL DESIGN WAS PREPARED USING THE FOLLOWING DATA:

- (A) DESIGN LIVE LOADS

- | | |
|--------------------|--|
| ROOF | 30 PSF |
| | 10 TON MONORAIL & CRANE
(SEE PLAN FOR LOCATION) |
| PUMP LEVEL | 300 PSF |
| INTERMEDIATE LEVEL | 300 PSF |
| OPERATIONS LEVEL | |
| TRUCK LOADING | 300 PSF |
| HEADWORKS | 300 PSF |
| CONTROL RM. | 200 PSF |
| UTILITY RM. | 100 PSF |
| MEZZANINE LEVEL | 100 PSF |
| GRIT CHAMBER | 100 PSF |

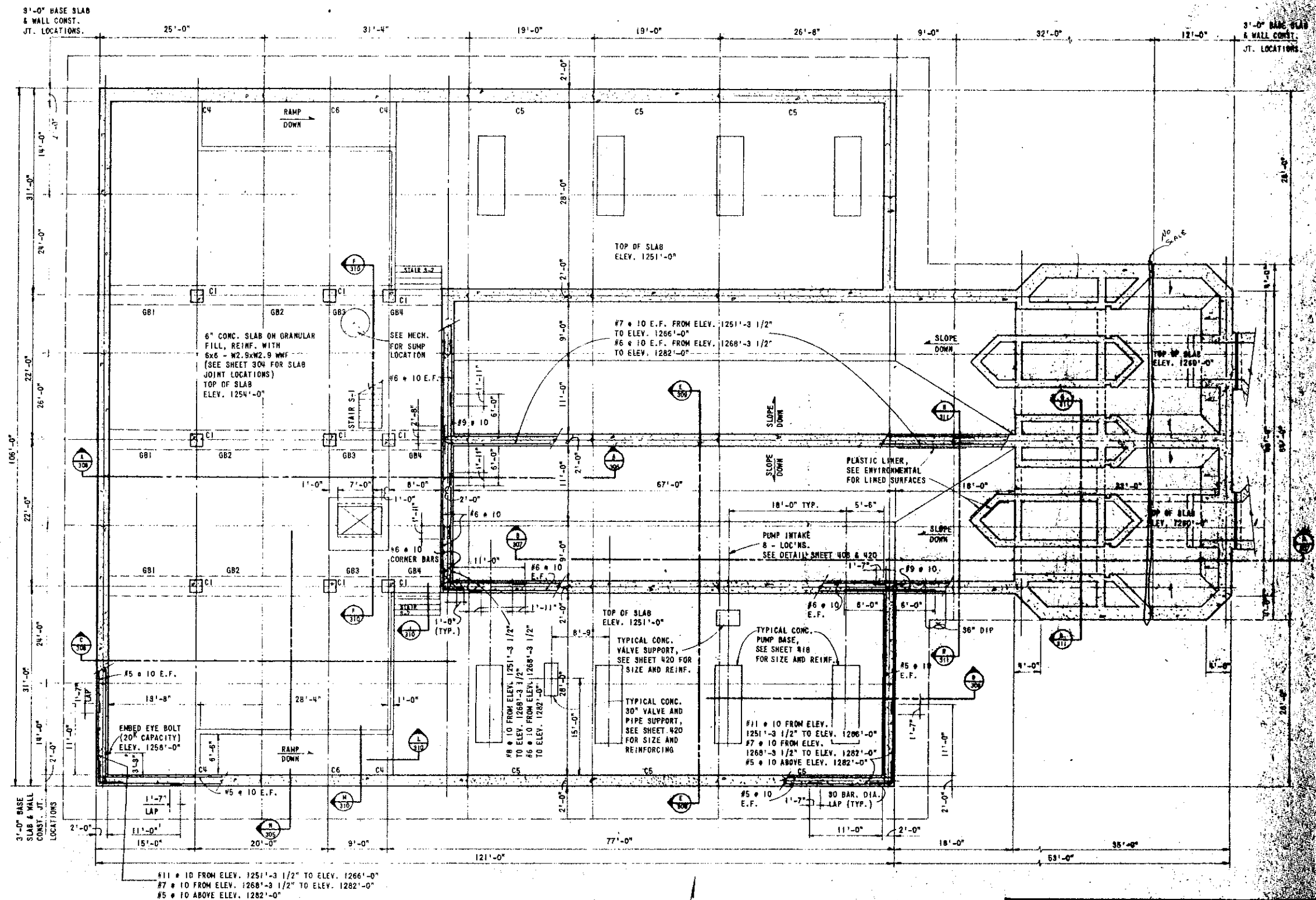
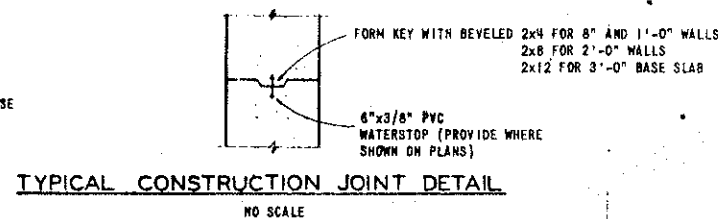
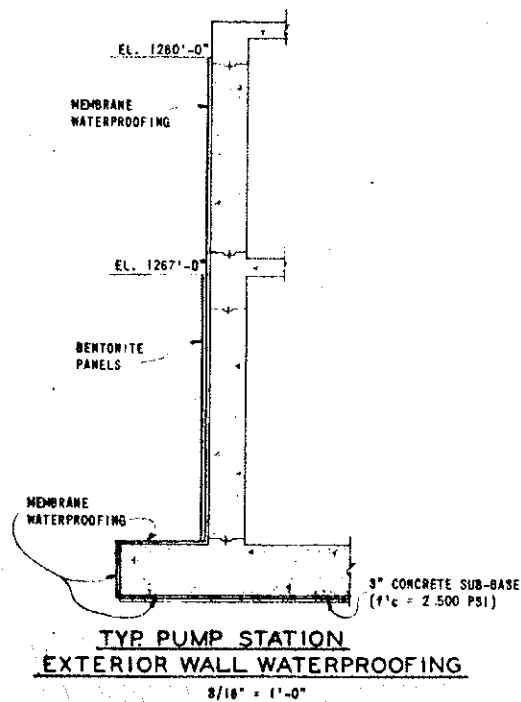
- ### (B) DESIGN STRESSES

- | | |
|------------------|--------------------|
| CONCRETE | $f'_c = 4,000$ PSI |
| REINFORCING | $f_y = 60,000$ PSI |
| STRUCTURAL STEEL | $F_y = 36,000$ PSI |

- (C) FOUNDATIONS**

- ALLOWABLE SOIL PRESSURE 2,000 PSF

3. SEE MECHANICAL, ENVIRONMENTAL, AND ELECTRICAL DRAWINGS FOR SLEEVES AND OPENINGS IN FOUNDATION.
9. PLACE TWO NUMBER FIVE BARS AROUND WINDOW AND DOOR OPENINGS IN CONCRETE WALLS. EXTEND BARS 2'-0" BEYOND CORNER OF OPENING.
11. PUMP LEVEL LANDING SLAB SHALL HAVE A LAYER OF 30 POUND FELT IN JOINTS BETWEEN THE EDGE OF SLAB AND COLUMNS OR FOUNDATION WALLS.
5. PROVIDE JOINTS IN PUMP LEVEL LANDING SLAB AS SHOWN ON PLANS.
6. SEE ARCHITECTURAL, MECHANICAL, ENVIRONMENTAL, AND ELECTRICAL DRAWINGS FOR EMBEDDED ITEMS AND OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS.
7. SEE MECHANICAL, ENVIRONMENTAL AND ELECTRICAL DRAWINGS FOR OPENINGS IN CONCRETE REQUIRED FOR PIPES AND EQUIPMENT NOT SHOWN ON STRUCTURAL DRAWINGS.
8. PROVIDE CONCRETE BASES AS REQUIRED FOR MECHANICAL EQUIPMENT.
9. PROVIDE ADDITIONAL REINFORCING AT SIDES OF OPENINGS EQUIVALENT TO REINFORCING INTERRUPTED BY OPENINGS. PROVIDE A MINIMUM OF TWO NUMBER FIVE BARS AT EACH SIDE OF OPENINGS AND EXTEND BARS 3'-0" PAST OPENINGS.
10. PROVIDE 2" CLEARANCE FOR ALL REINFORCING UNLESS OTHERWISE SHOWN.
11. LAP HORIZONTAL WALL REINFORCING 30 DIAMETERS AT ALL SPLICES UNLESS OTHERWISE SHOWN.
12. SEE ENVIRONMENTAL SHEETS FOR CONCRETE PIPE SUPPORTS.

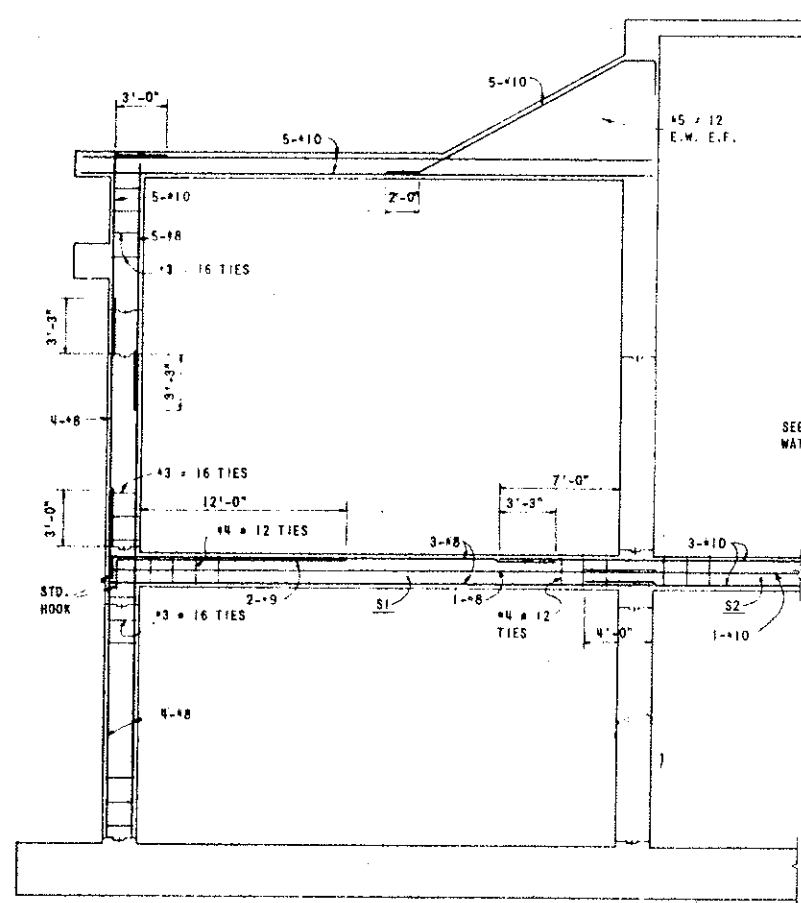


PUMP LEVEL FRAMING PLAN

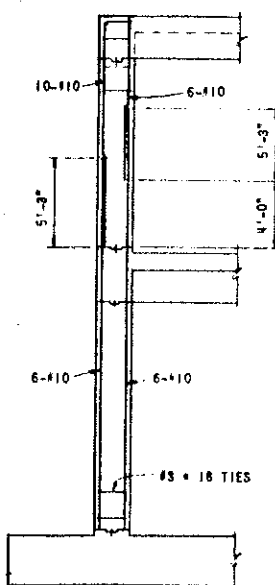
$$1/\theta^n = 1 - \theta^n$$

WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
PUMP LEVEL FRAMING PLAN.
STRUCTURAL

				DESIGN MAR	DRAWN MJV	 SHELLEY-WILSON ENGINEERS-ARCHITECTS-PLANNERS 204 LAUREL - SUITE 200 - BOSTON, MASSACHUSETTS 02111	DATE: FEB. 1978
							FILE NO. 75-1832
							SHEET NO. 287
							OF 318
REVISION				DATE	BY		

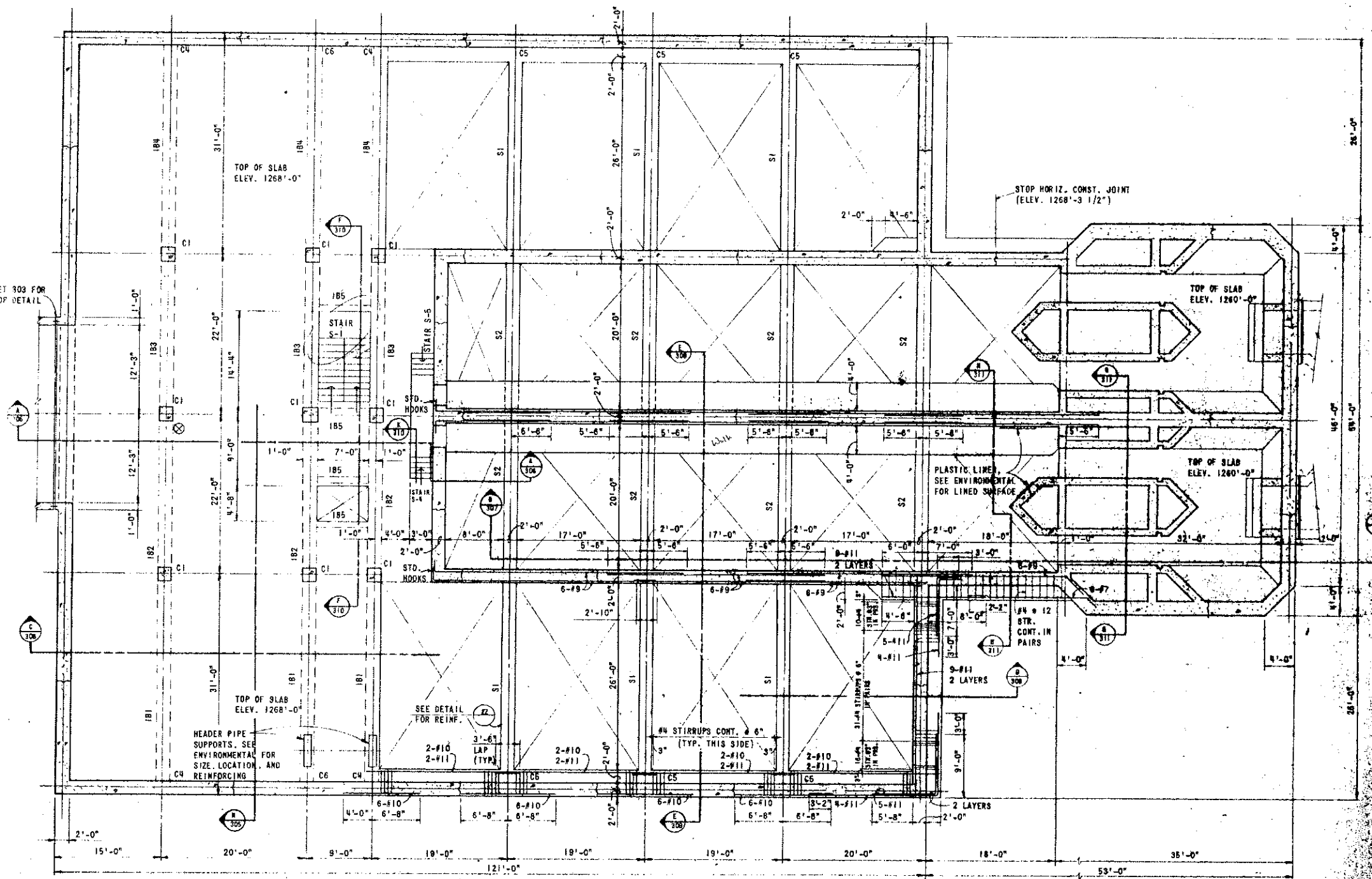


DETAIL 2-Z
3/16" = 1'-0"
302
307



DETAIL Y-Y
3/16" = 1'-0"

SEE SHEET 303 FOR
WATERSTOP DETAIL



INTERMEDIATE LEVEL FRAMING PLAN

1/8" = 1'-0"

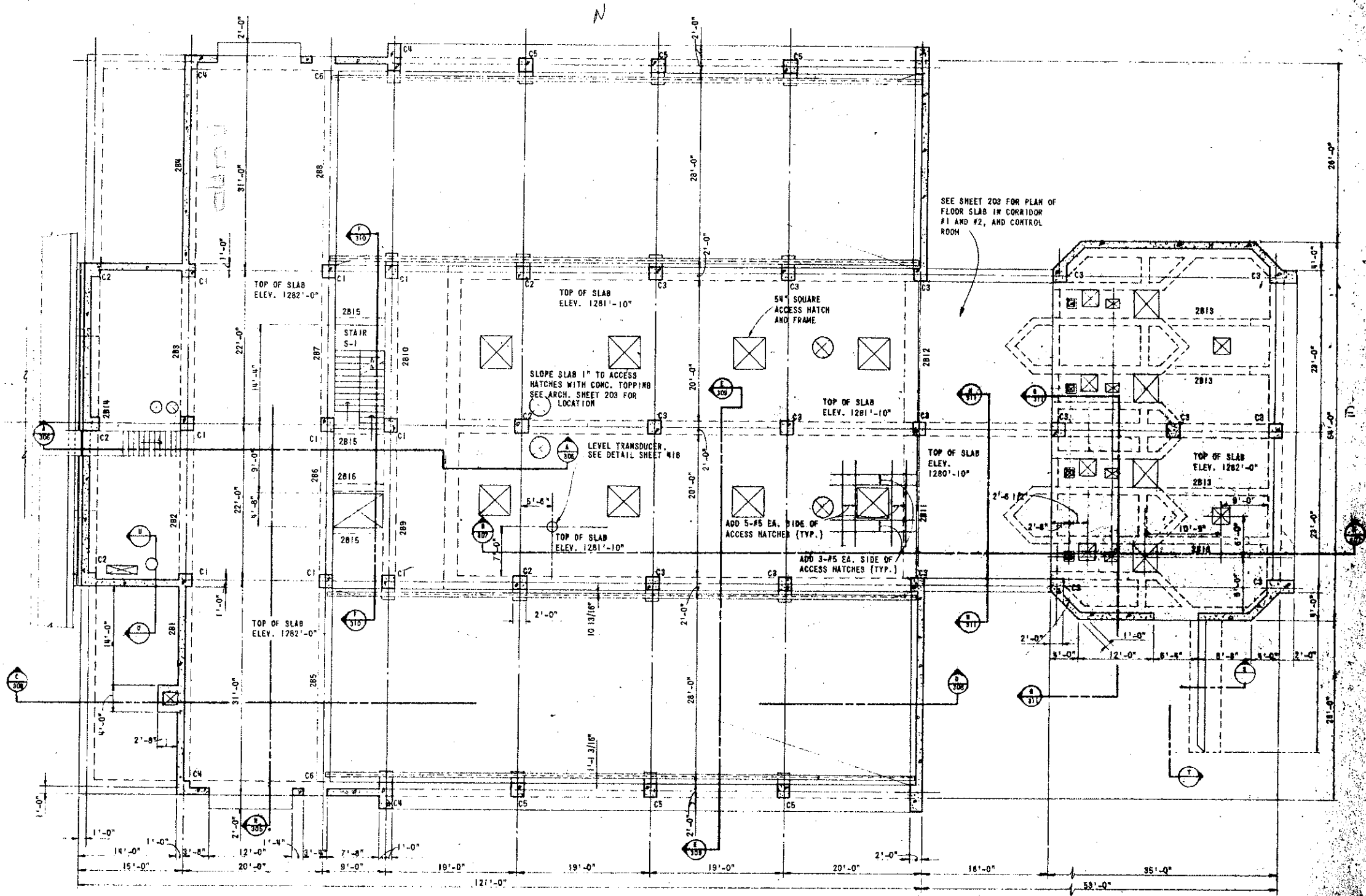
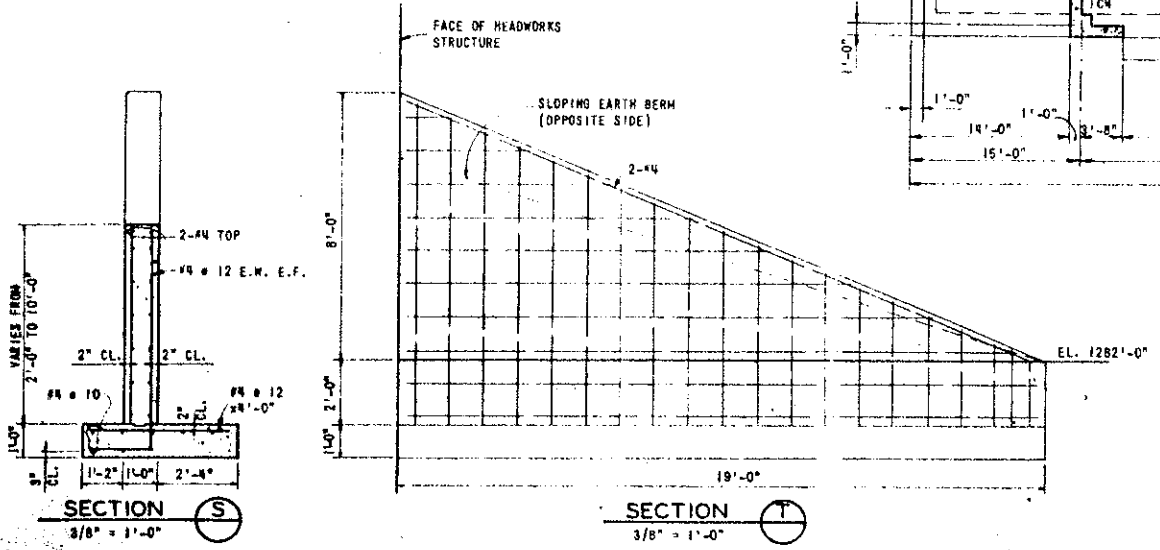
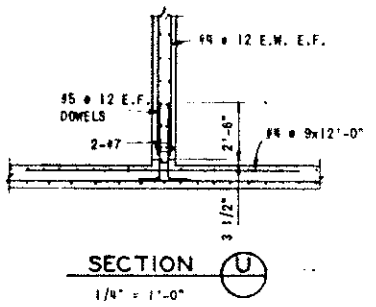
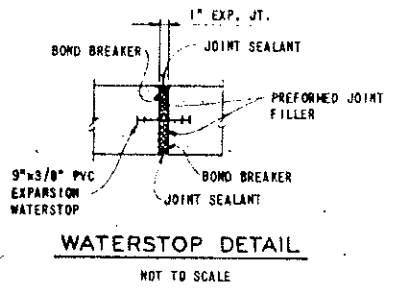
WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
INTERMEDIATE LEVEL FRAMING PLAN

REVISION	DATE	BY

DESIGN MAR	DRAWN TWS

SHAW-WILSON
ENGINEERS-ARCHITECTS-PLANNERS
200 LANDS & BUILDING, SUITE 2011

DATE: FEB. 1974
FILE NO. 75-181A
SHEET NO. 302 OF 319



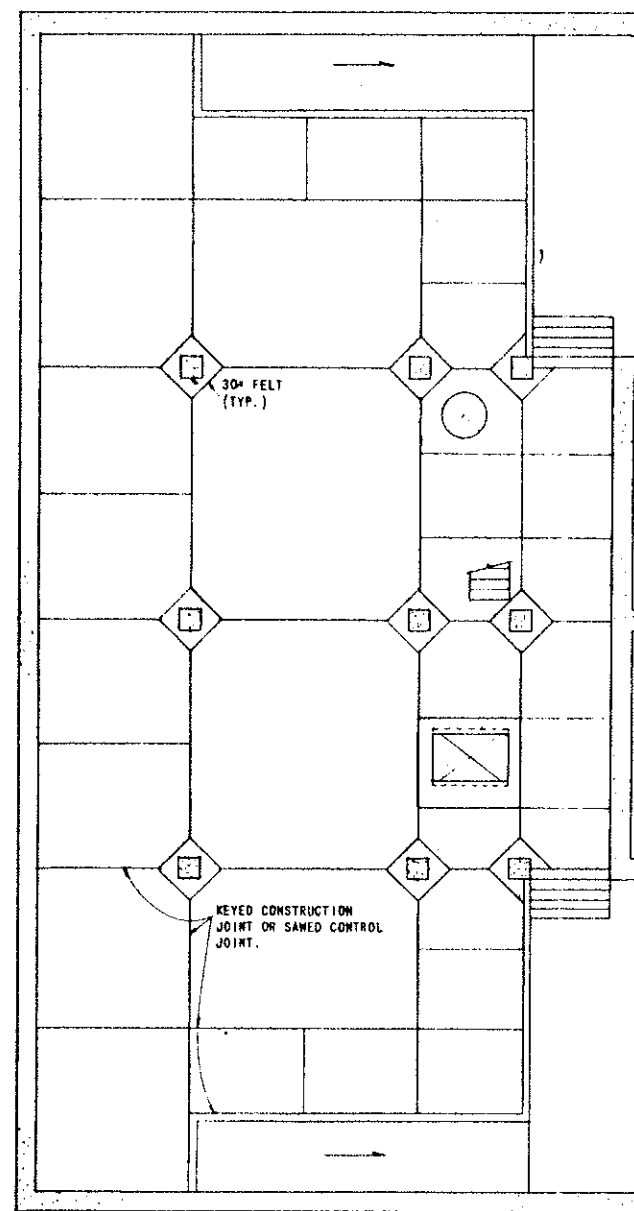
OPERATIONS LEVEL FRAMING PLAN
1/8" = 1'-0"

WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
OPERATIONS LEVEL - FRAMING PLAN
STRUCTURAL

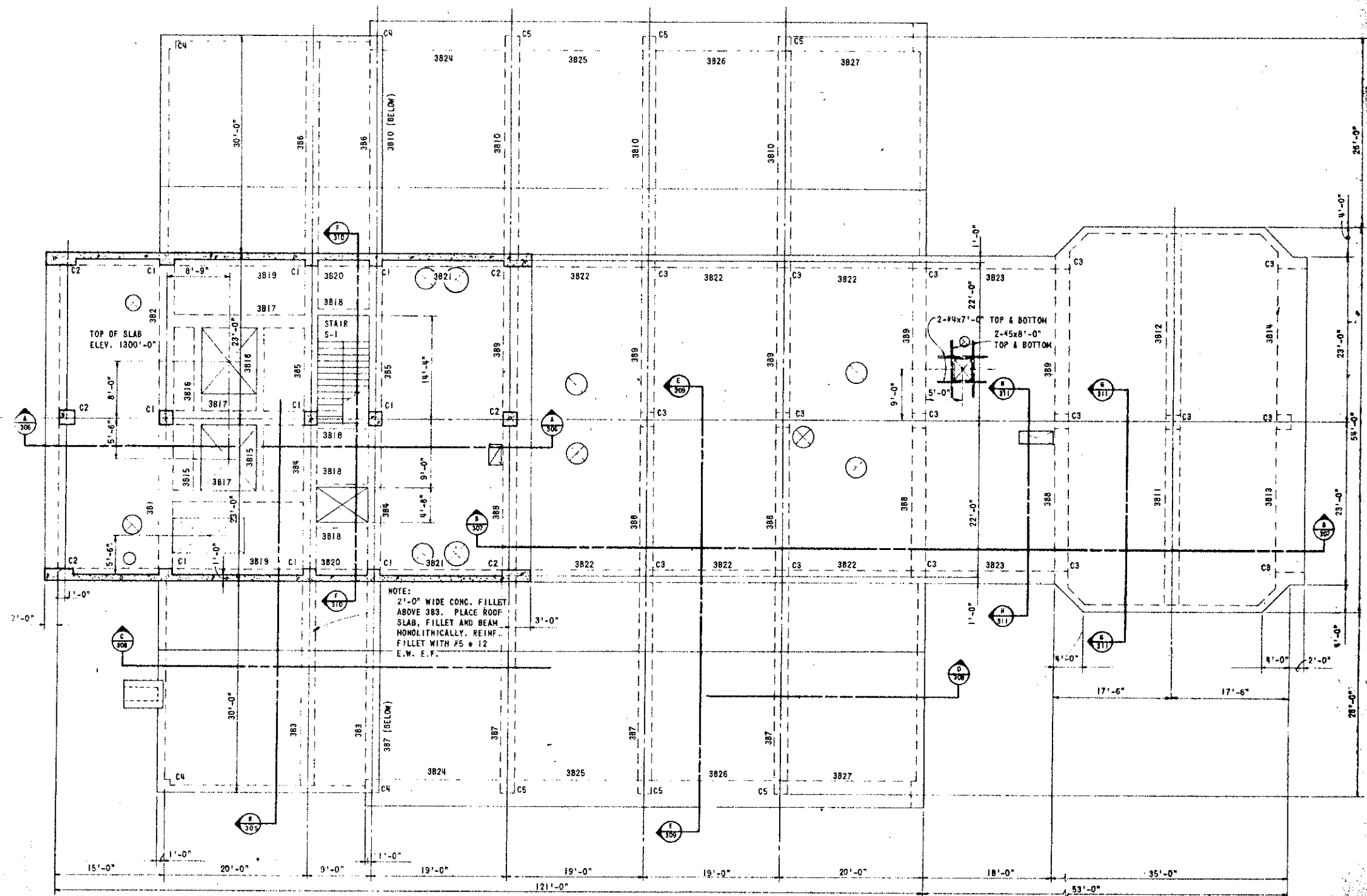
DESIGN	DRAWN	DATE
MAR	MJV	FEB. 1978

FILE NO. 75-1016
SHEET NO. 303
OF 310

SHELLEY-WILSON
ENGINEERS-ARCHITECTS-PLANNERS
200 LAUREL - 6 WICHITA, KANSAS 67201



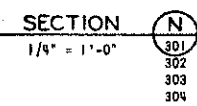
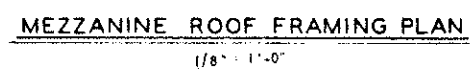
PUMP LEVEL LANDING SLAB JOINT LOCATIONS
1/8" = 1'-0"



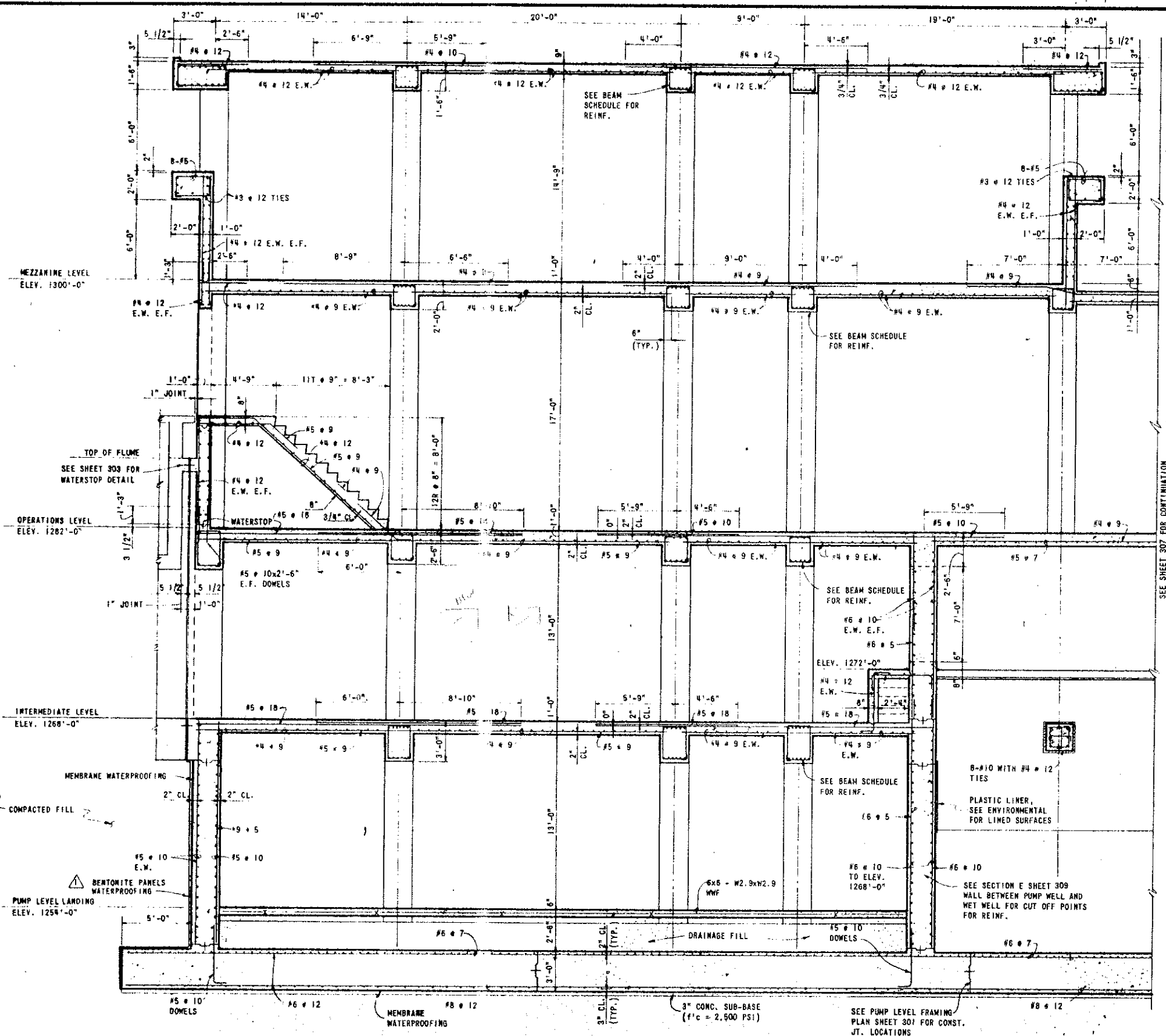
MEZZANINE LEVEL AND ROOF FRAMING PLAN

WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
MEZZANINE LEVEL AND ROOF FRAMING PLAN
STRUCTURAL

				DESIGN MAR	DRAWN MJV	 SHELLEY-WILSON ENGINEERS • ARCHITECTS • PLANNERS 204 LAMAR • SUITE 110, SAN DIEGO, CALIF.	DATE: FEB. 1978
					FILE NO. 75-101A		
					SHEET NO. 304		
					OF 318		
REVISION			DATE	BY			



			DESIGN MAR	DRAWN MJV	 SHELLEY-WILSON ENGINEERS-ARCHITECTS-PLANNERS 254 LADRA & MONTELEONE BOULEVARD	DATE: SEPT. 1977
						FILE NO. 75-101A
						SHEET NO. 309
REVISION			DATE	BY		OF 310



SECTION **A**
 SCALE: 1/4" = 1'-0"
 301
 302
 303
 304
 305

WICHITA, KANSAS
 PLANT NO. 1 PUMPING STATION
 BUILDING SECTION AND DETAILS
 STRUCTURAL

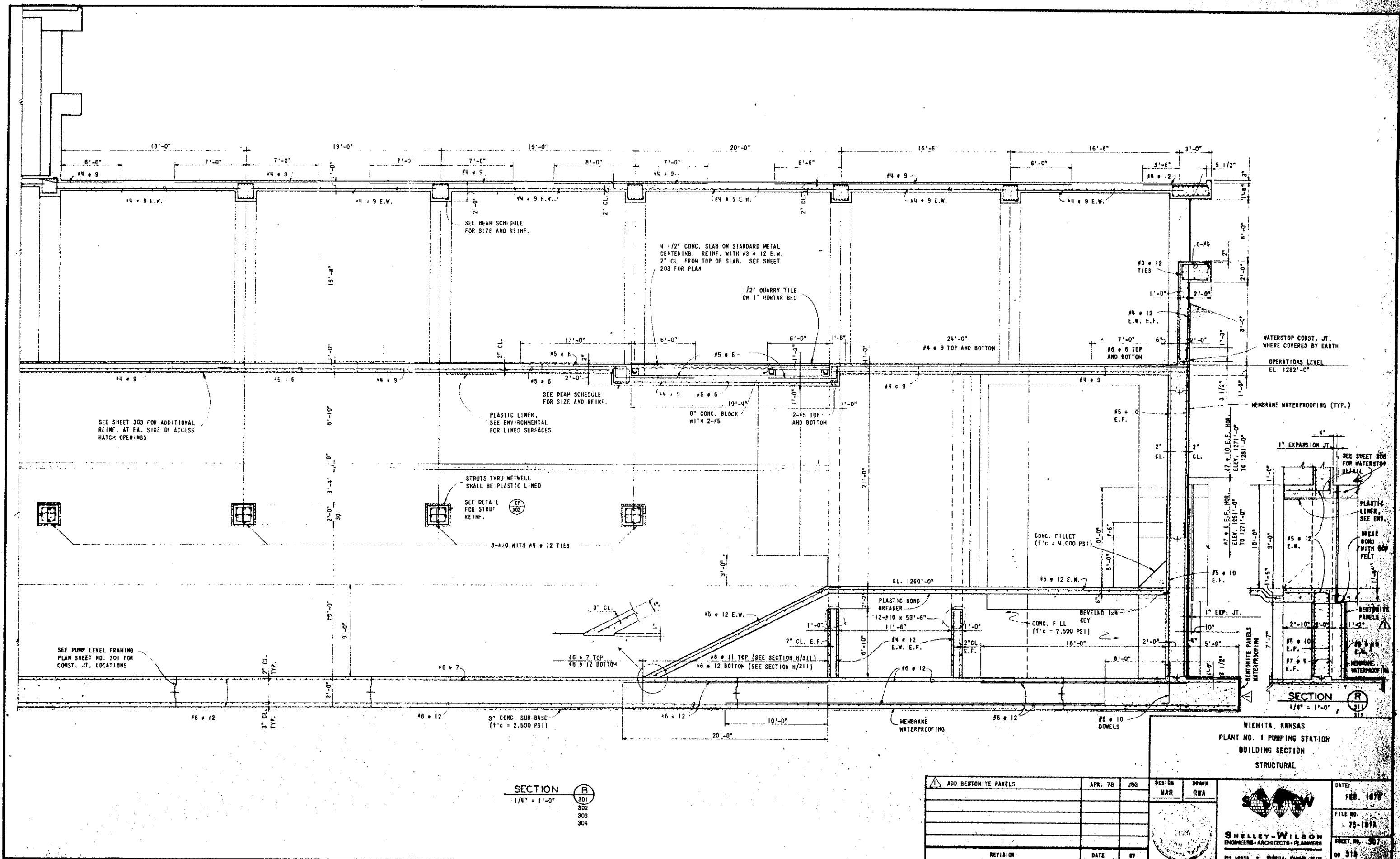
DESIGN	MAR	DRAWN	TWS, RWA	DATE	FEB. 1978
FILE NO.	75-101A				
SHEET NO.	308				
OF	318				

ADD BENTONITE PANELS

APR. 78

JGB

SHELLEY-WILSON
 ENGINEERS-ARCHITECTS-PLANNERS



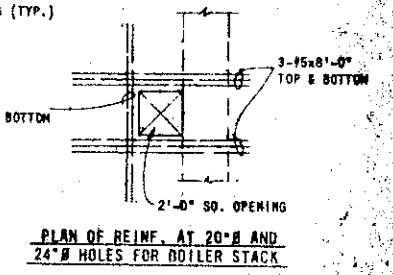
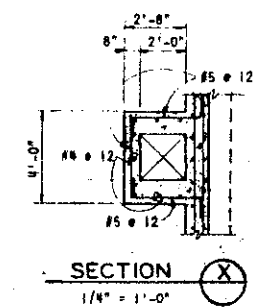
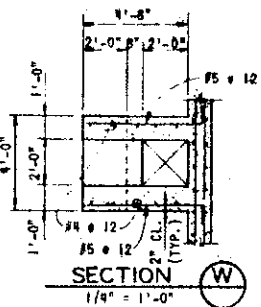
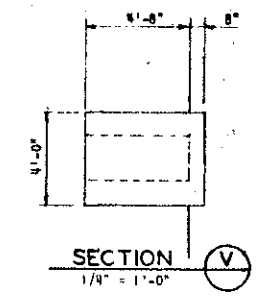
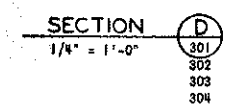
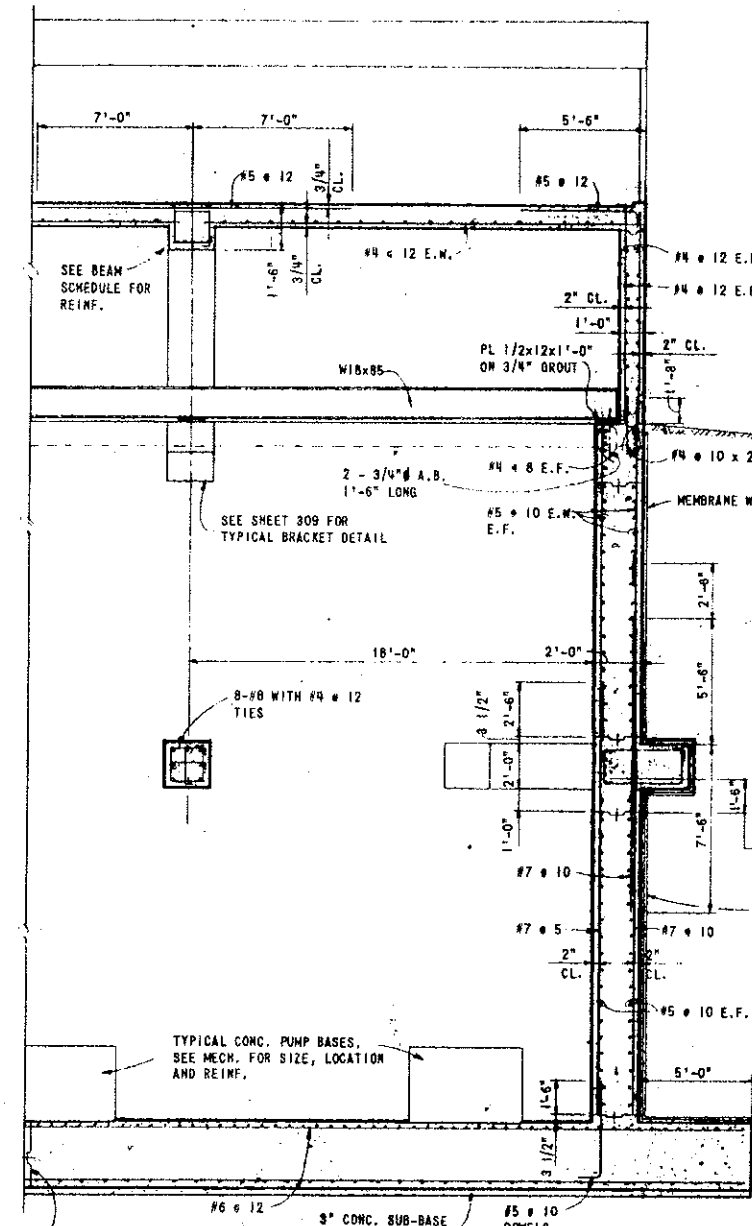
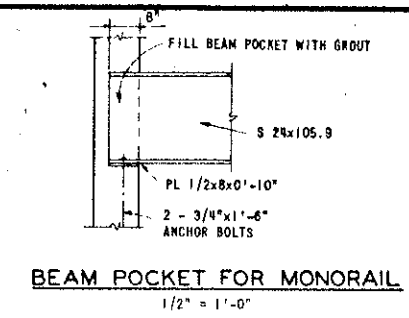
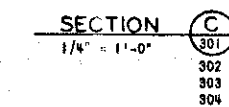
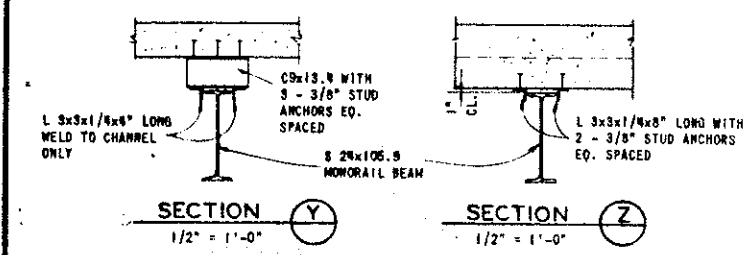
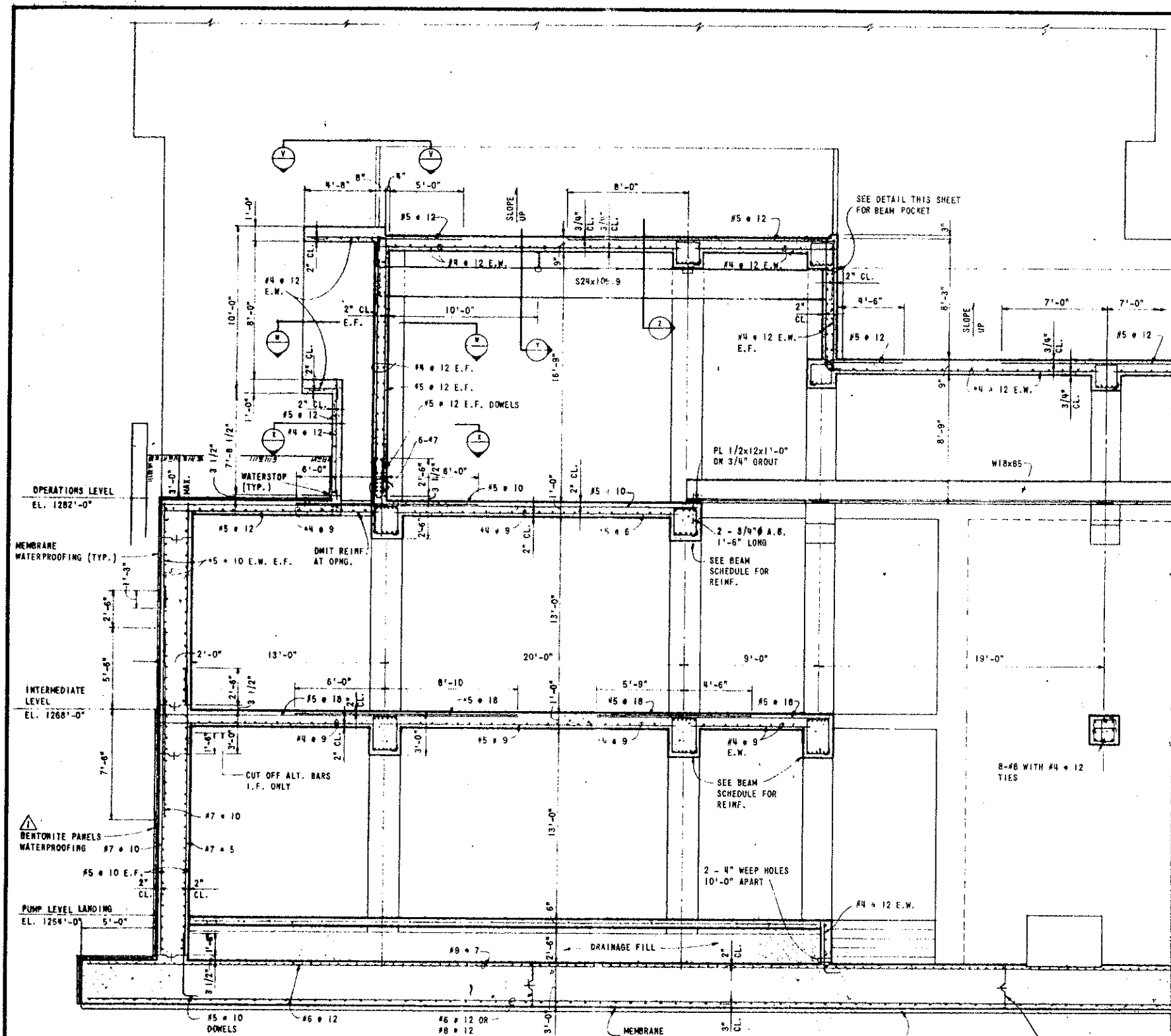
SECTION B
1/4" = 1'-0"

ADD BENTONITE PANELS	APR. 78	JSG	DESIGN	MAR	DATE	FEB. 1978
			DRAWN	RWA	FILE NO.	75-187A
					SHEET NO.	307
					OF 318	

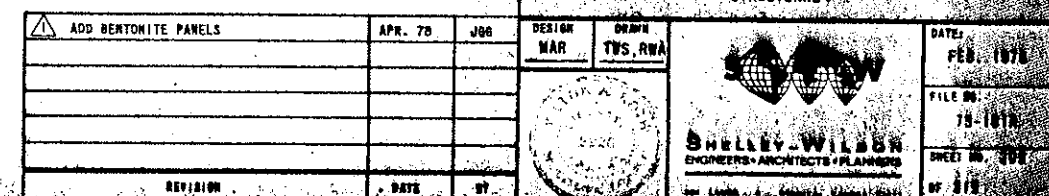
WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
BUILDING SECTION
STRUCTURAL

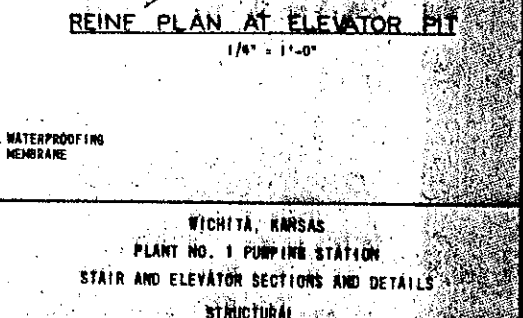
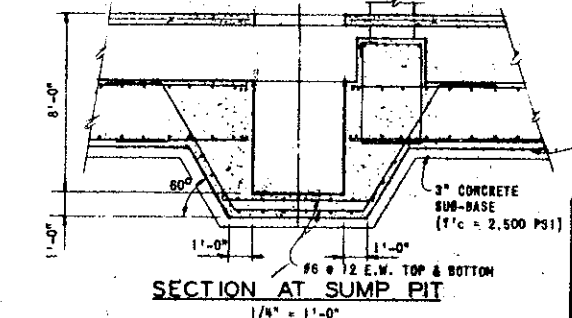
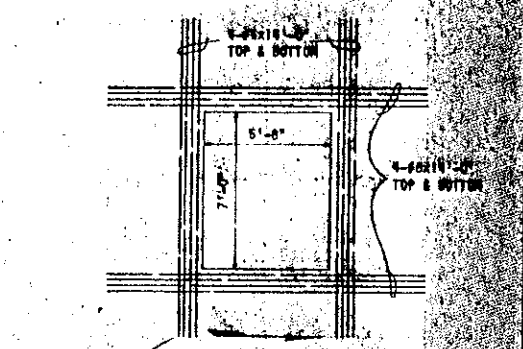
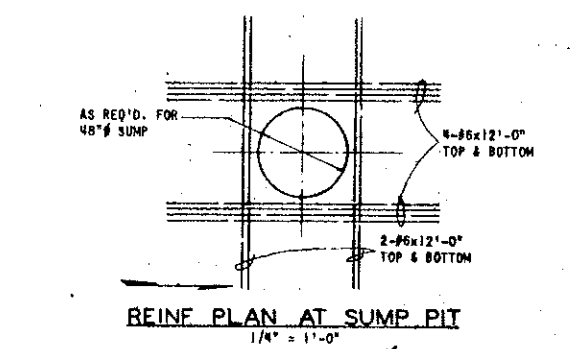
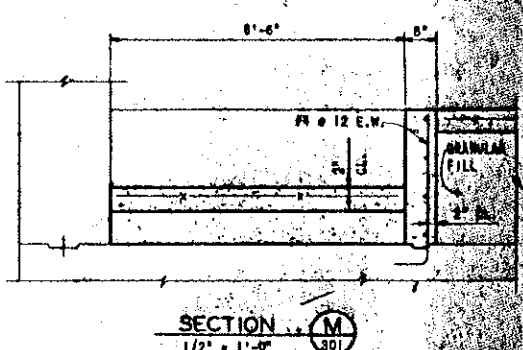
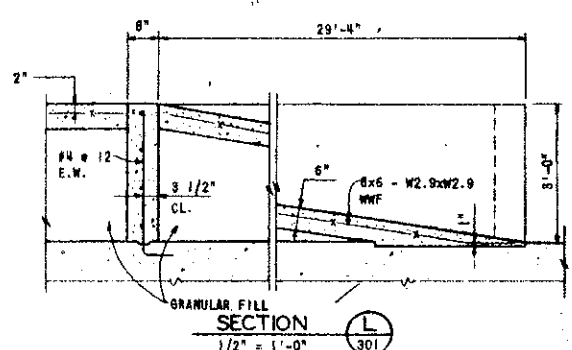
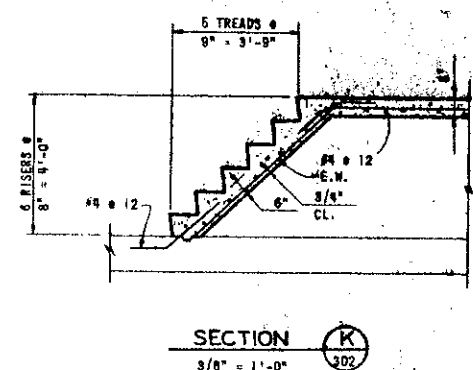
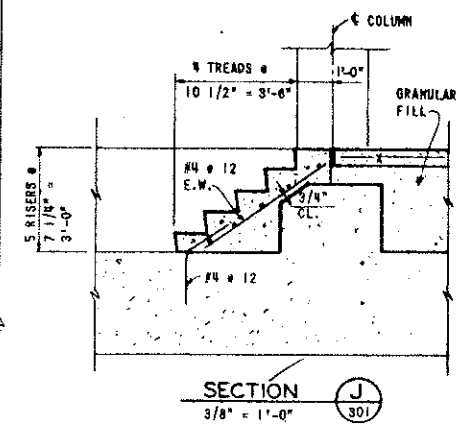
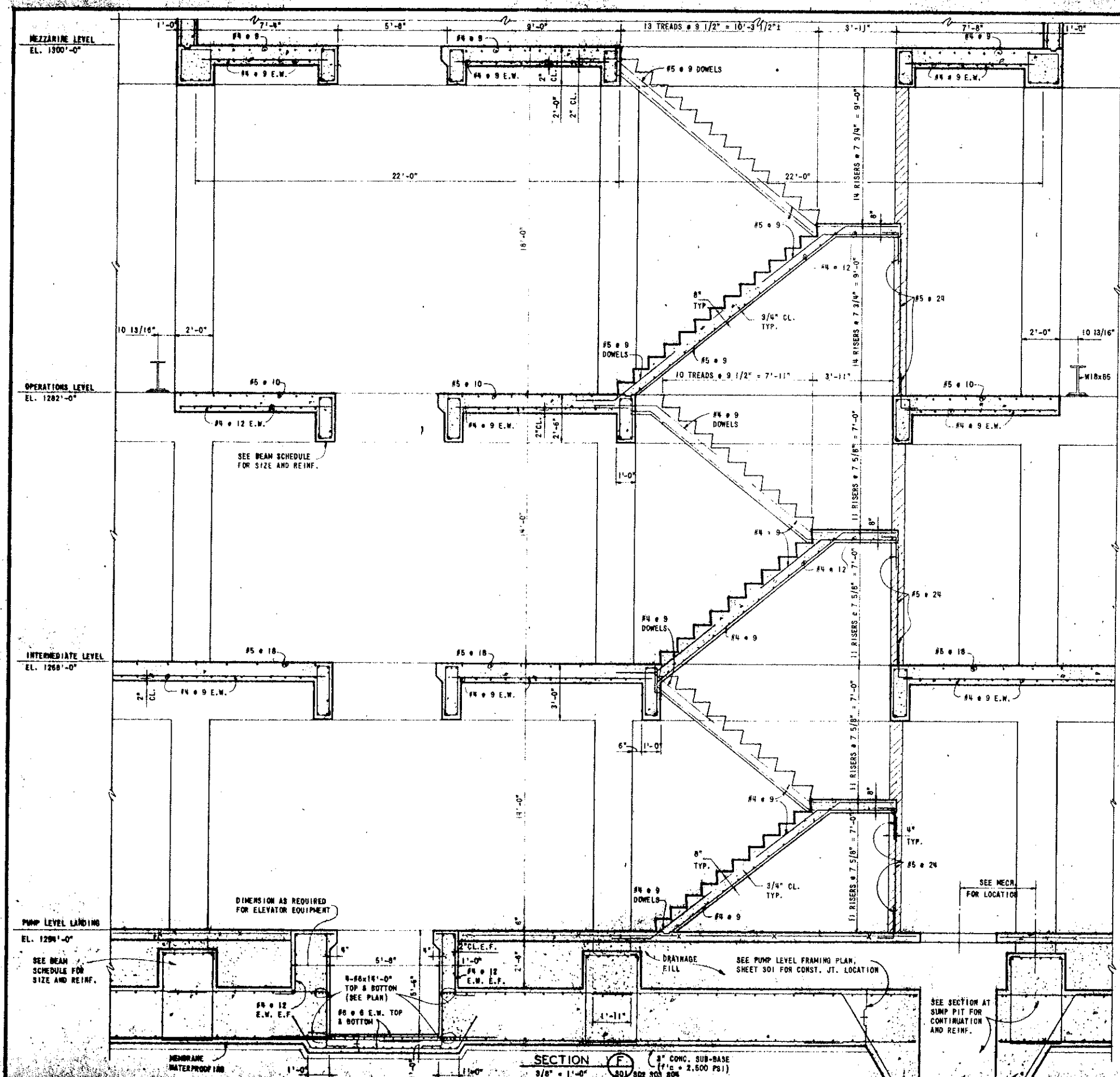
SHELLEY-WILSON
ENGINEERS-ARCHITECTS-PLANNERS

ONE LAUREL • WICHITA, KANSAS 67201



WICHITA, KANSAS PLANT NO. 1 PUMPING STATION BUILDING SECTIONS STRUCTURAL			
DATE: FEB. 1978	FILE NO. 75-181A	SHEET NO. 303	OF 319
DESIGN: MAR	DRAWN: TWS, RWA	DATE: APR. 78	BY: JGG
ADD BENTONITE PANELS 301 302 303 304			
REVISION DATE BY			


$$1/2^a = 1'-0^a$$


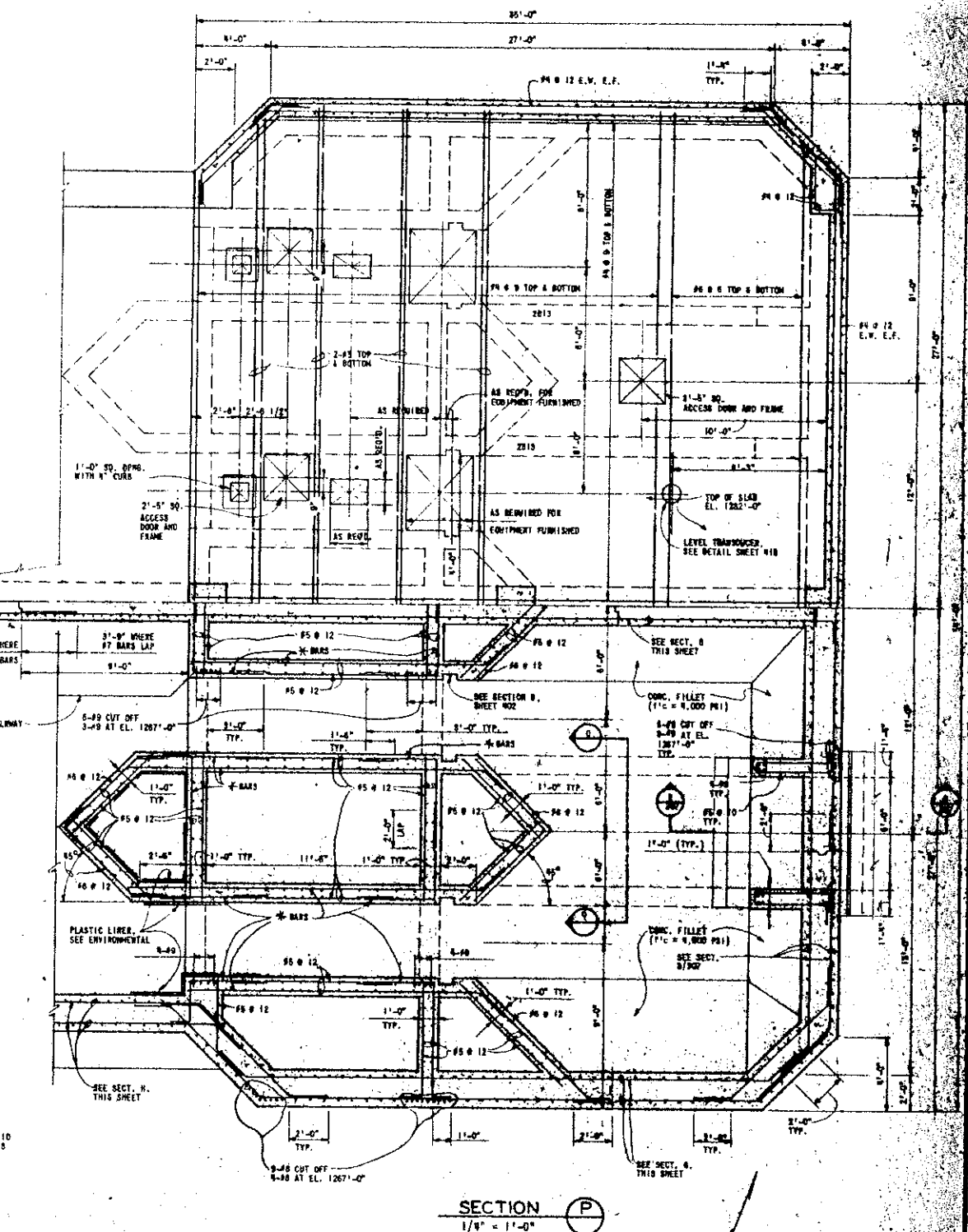
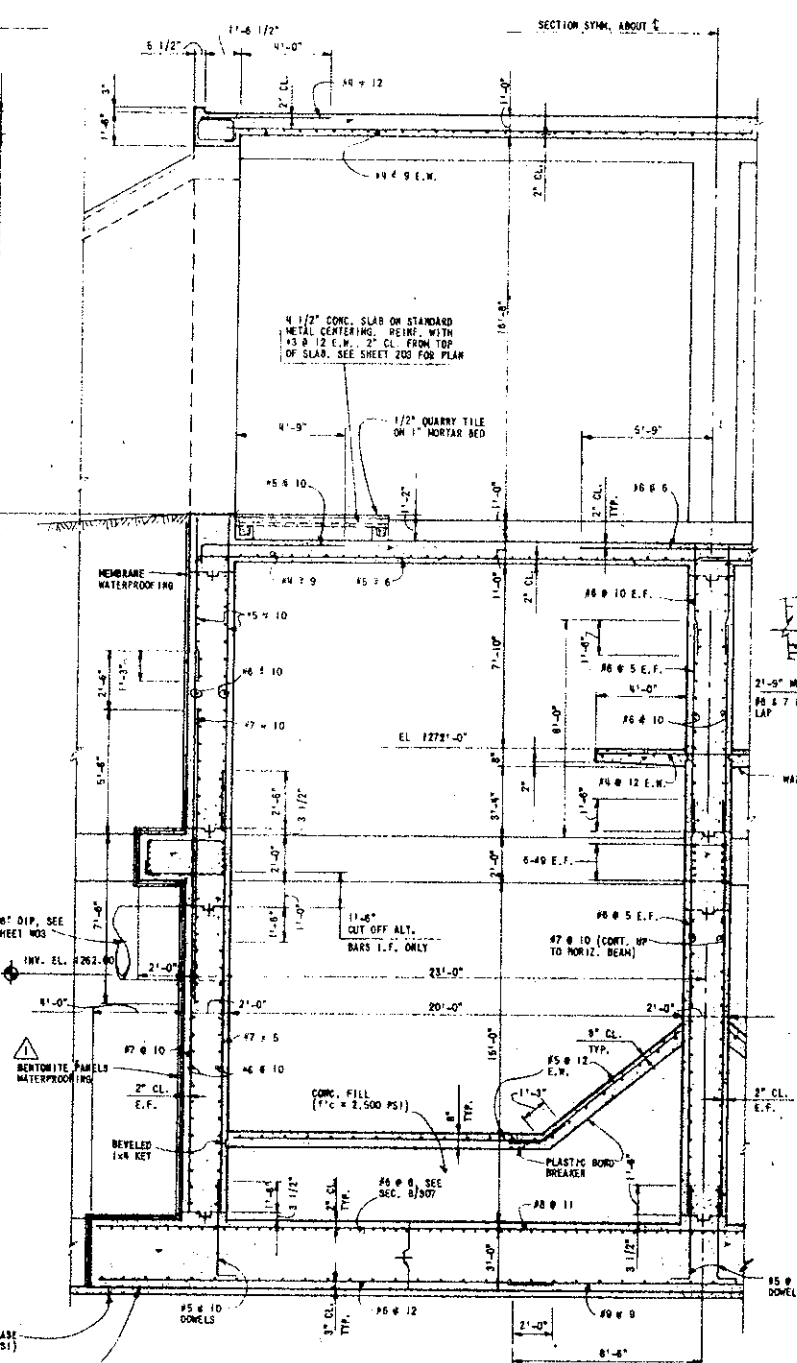
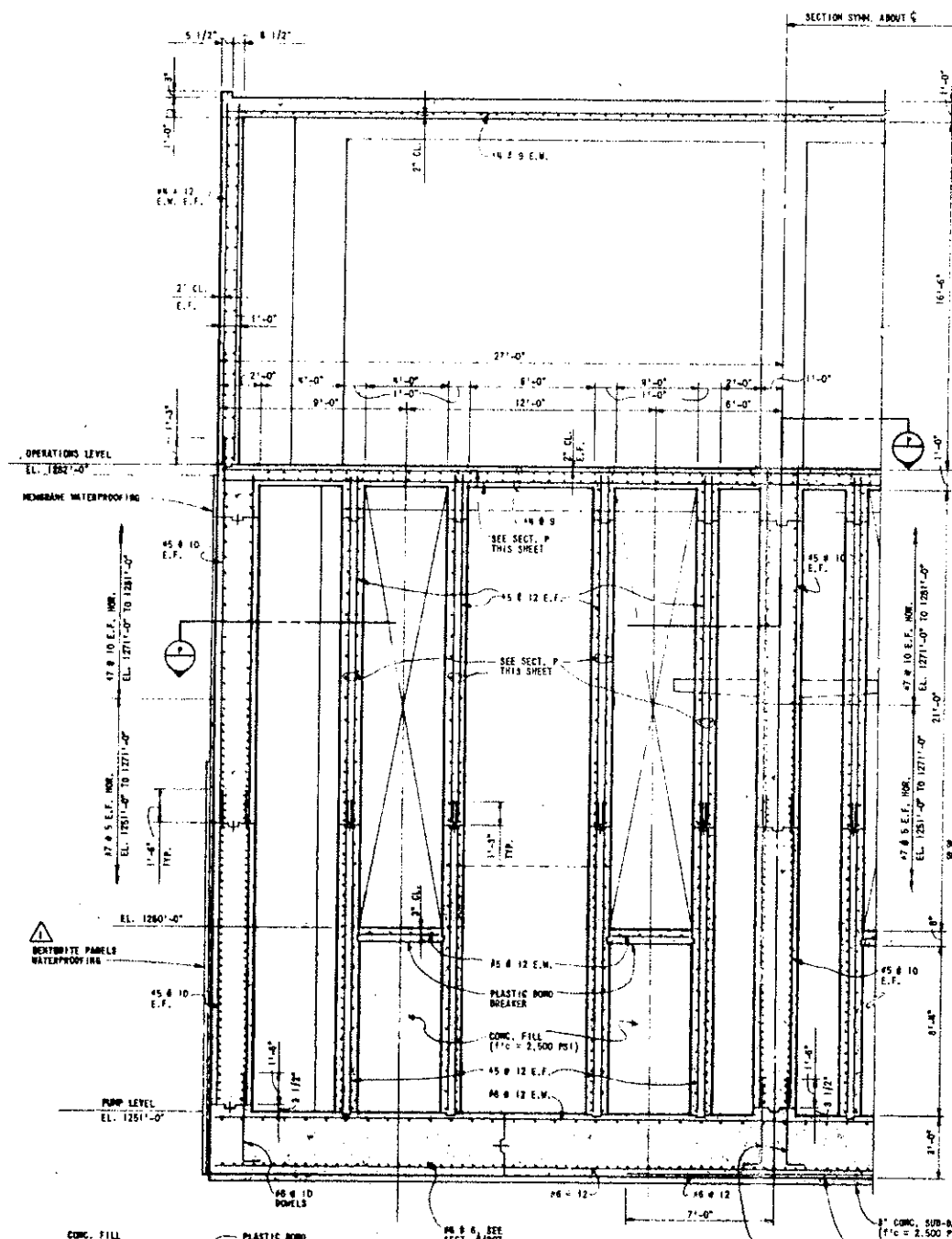


WICHITA, KANSAS
PLANT NO. 1 PUMP STATION
STAIR AND ELEVATOR SECTIONS AND DETAILS
STRUCTURAL

REVISION	DATE	BY

DESIGN RVA	DATE FEB. 1978
MARK TWS, RVA	FILE NO. 75-1818
SHEET NO. 310	

SHIRLEY-WILSON
ENGINEERS-ARCHITECTS-PLANNERS



*BARS: #6 @ 6" EL. 1281'-0" TO 1280'-0"
#6 @ 12" EL. 1280'-0" TO 1281'-0"

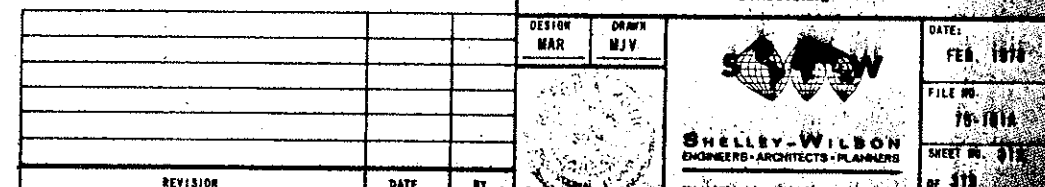
- NOTES:
1. REINF. IN 1'-0" WALLS TO HAVE 2" CONC. COVER.
 2. SEE PUMP LEVEL FRAMING PLAN, SHEET 301, FOR CONST. JT. LOCATION.

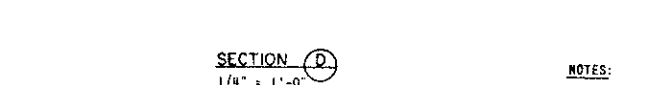
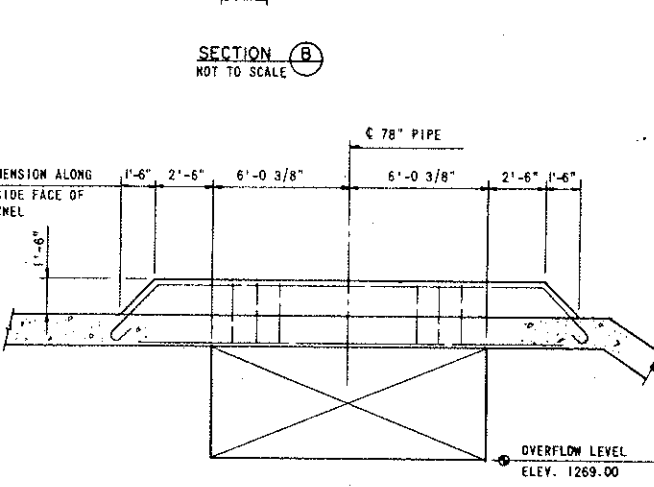
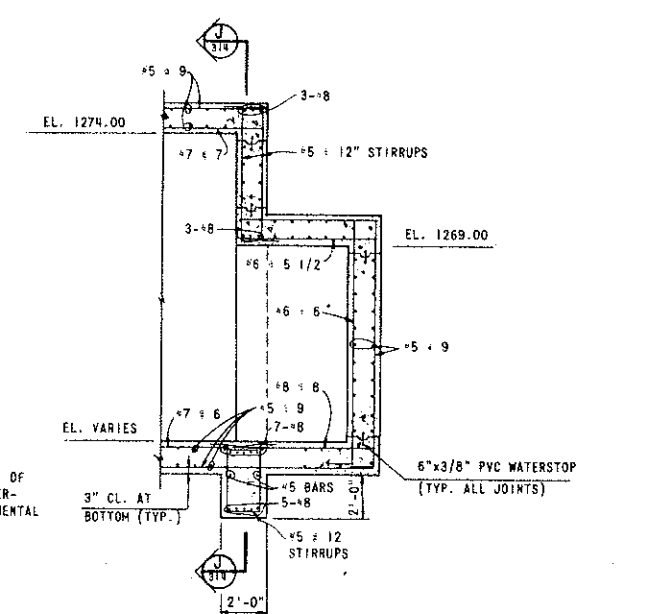
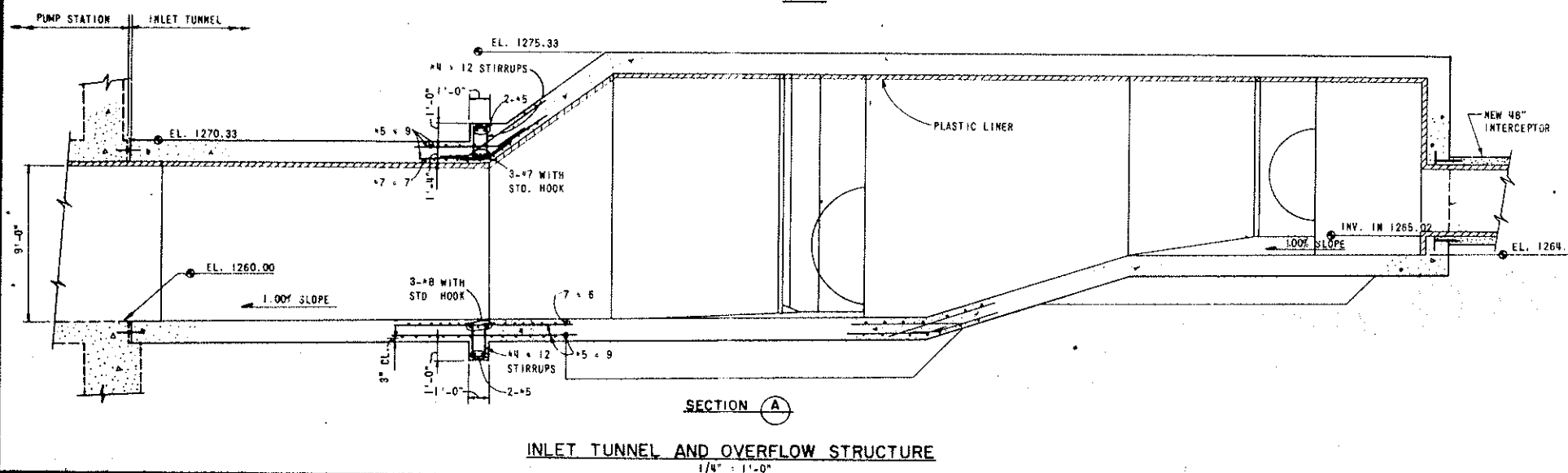
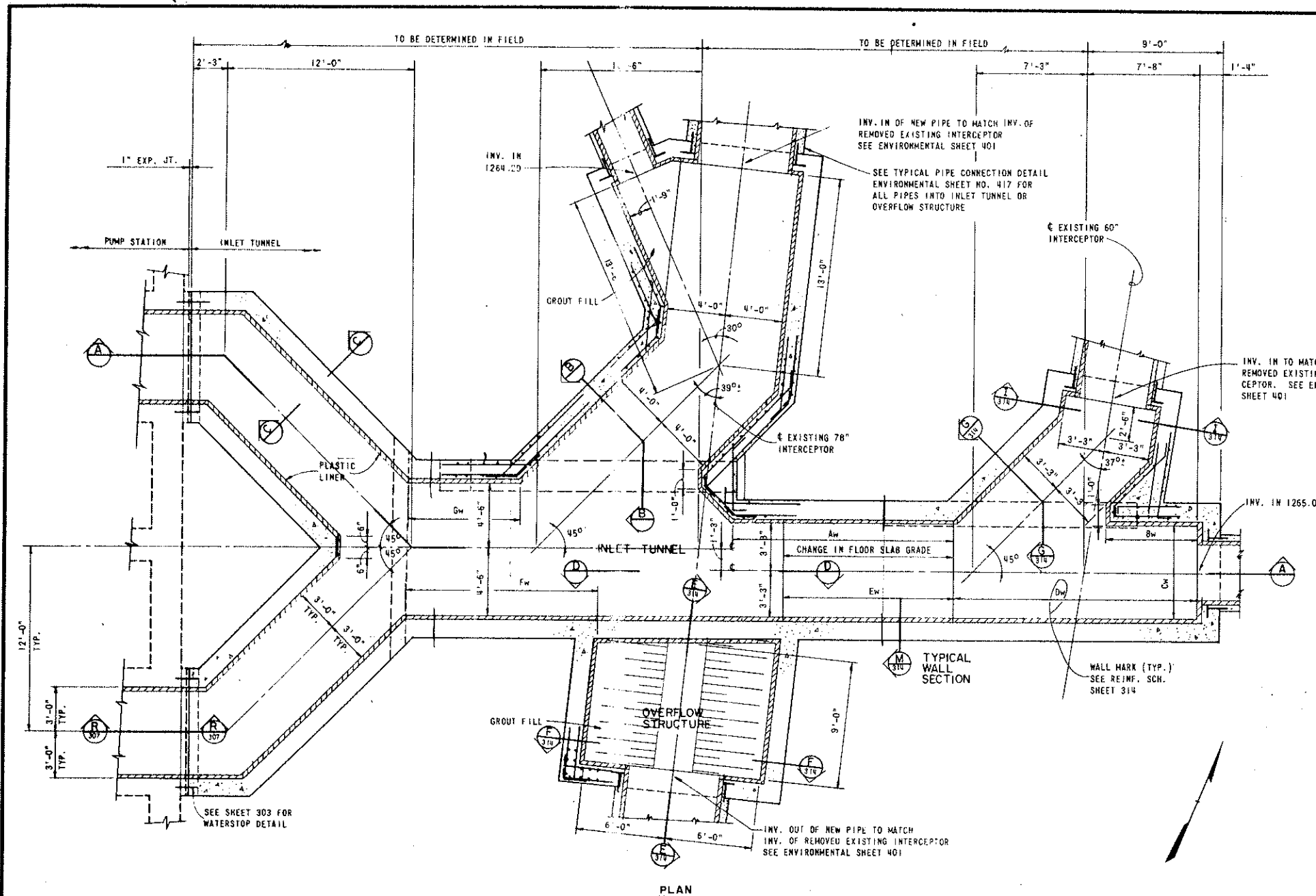
REVISION	DATE	BY
ADD BENTONITE PANELS	APR. 78	JGG

WICHITA, KANSAS PLANT NO. 1 PUMPING STATION BUILDING SECTION STRUCTURAL		DATE: FEB. 1978
DESIGN MAR	DRAWN MJV	FILE NO. 75-181A
SHELLEY-WILSON ENGINEERS-ARCHITECTS-PLANNERS		SHEET NO. 311

[illegible]

MARK	SIZE W x D	REINFORCING		SKETCH	STIRRUPS	REMARKS
		BOTTOM	TOP			
3B1	24x24	6-#5	6-#6 SO. 4-#9 NO.		CONT. # 10	
3B2	24x24	6-#5	6-#6		CONT. # 10	
3B3	24x18 24x24	6-#6	6-#7 SO. 6-#7 NO.		4#6, CONT. # 8 E.E.	CHANGE BEAM DEPTH AT SLOPING ROOF
3B4	24x24	6-#5	6-#7		CONT. # 10	
3B5	24x24	6-#5	6-#7		CONT. # 10	
3B6	24x24 24x18	6-#6	6-#7		4#6, CONT. # 8 E.E.	CHANGE BEAM DEPTH AT SLOPING ROOF
3B7	24x18	5-#10	5-#10 SO. 5-#10 NO.		4#6, CONT. # 8 E.E.	
3B8	24x24	6-#5	6-#6 SO. 4-#9 NO.		CONT. # 10	
3B9	24x24	6-#5	6-#6		CONT. # 10	
3B10	24x18	5-#10	5-#10 SO. 5-#10 NO.		4#6, CONT. # 8 E.E.	
3B11	24x24	6-#6	6-#6 SO. 4-#10 NO.		CONT. # 10	
3B12	24x24	6-#6	6-#6		CONT. # 10	
3B13	48x18	8-#5	8-#5 SO. 8-#6 NO.		CONT. # 8	
3B14	48x18	8-#5	8-#5		CONT. # 8	
3B15	12x24	2-#8	2-#8		CONT. # 10	
3B16	12x24	2-#8			CONT. # 10	
3B17	24x24	6-#8	6-#8 WE. 6-#8 EA.		CONT. # 10	
3B18	12x24	2-#5	2-#5		CONT. # 10	
3B19	24x42	4-#7	4-#7 WE. 4-#7 EA.		CONT. # 12	
3B20	24x42	4-#7			CONT. # 12	
3B21	24x42	4-#7	4-#7		CONT. # 12	
3B22	24x36	4-#7	4-#7		CONT. # 12	
3B23	24x18	4-#7	4-#7 EA.		CONT. # 8	
3B24	48x18	8-#5	8-#5 WE. 8-#5 EA.		CONT. # 8	
3B25	48x18	8-#5	8-#5		CONT. # 8	
3B26	48x18	8-#5	8-#5		CONT. # 8	
3B27	48x18	8-#5	8-#5		CONT. # 8	
RB1	48x18	8-#5	8-#5 SO. 8-#5 NO.		CONT. # 8	
RB2	48x18	8-#5	8-#5		CONT. # 8	
RB3	24x18	4-#7	6-#5 SO. 5-#8 NO.		CONT. # 8	
RB4	24x18	4-#7	6-#5		CONT. # 8	



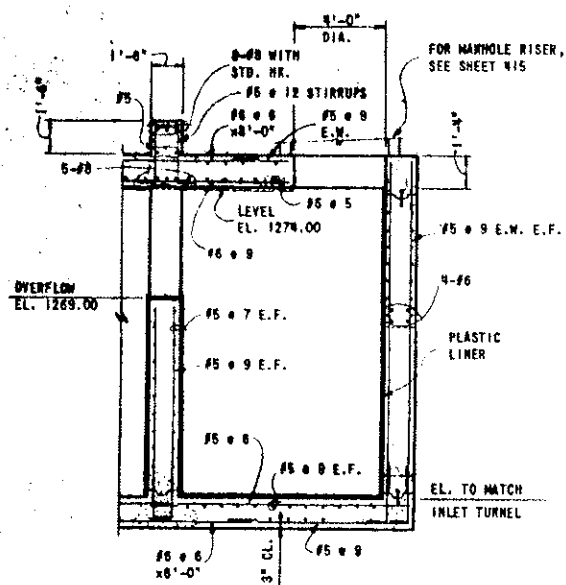


- NOTES:**
1. INLET TUNNEL TO HAVE PLASTIC LINER CAST INTO PLACE ON ALL INTERIOR SURFACES EXCLUDING FLOOR.
 2. OVERFLOW STRUCTURE TO HAVE PLASTIC LINER CAST INTO PLACE ON ALL INTERIOR SURFACES INCLUDING FLOOR.
 3. POINTS OF ELEVATIONAL CHANGE IN THE TOP SLAB AND POINTS OF SLOPE CHANGE IN THE BOTTOM SLAB WILL BE DETERMINED BY THE FIELD LOCATION OF THE EXIST. INTERCEPTORS DURING CONSTRUCTION. RELATIONSHIPS OF THESE POINTS AND EXIST. INTERCEPTORS ARE SHOWN ON THE PLAN VIEW.
 4. PIPE FILLER PIECES FROM INLET TUNNEL TO EXIST. INTERCEPTORS TO BE INSTALLED WITH STEEL WATERSTOP RING JOINTED TO SPIGOT. FILLER PIECE WITH WATERSTOP TO BE JOINTED TO EXISTING PIPE, THEN CAST IN INLET TUNNEL WALL. REF. ENVIRONMENTAL SHEET 401.
 5. ALL WALLS AND SLABS 1'-4" UNLESS OTHERWISE NOTED.

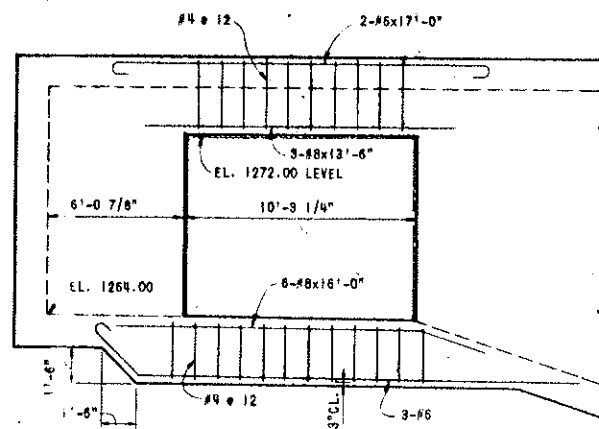
WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
INLET TUNNEL AND OVERFLOW STRUCTURE
STRUCTURAL

DESIGN KJS	DATE FEB. 1978
DRWR JFB	FILE NO. 75-181A
	SHEET NO 313 OF 318

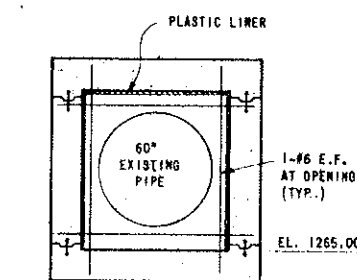
SHELLEY-WILSON
ENGINEERS-ARCHITECTS-PLANNERS
224 S. 10TH ST. WICHITA, KANSAS 67202



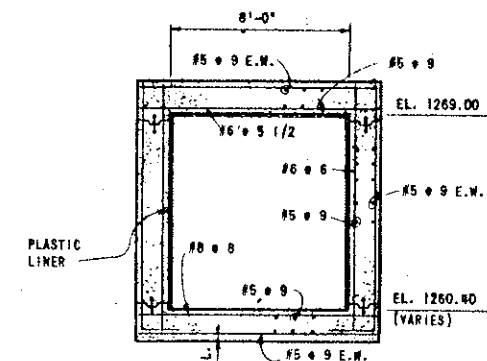
SECTION E
313



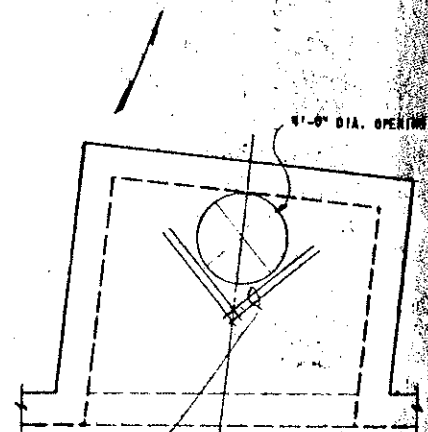
SECTION H
(SHOWING BEAM REINF.)
313



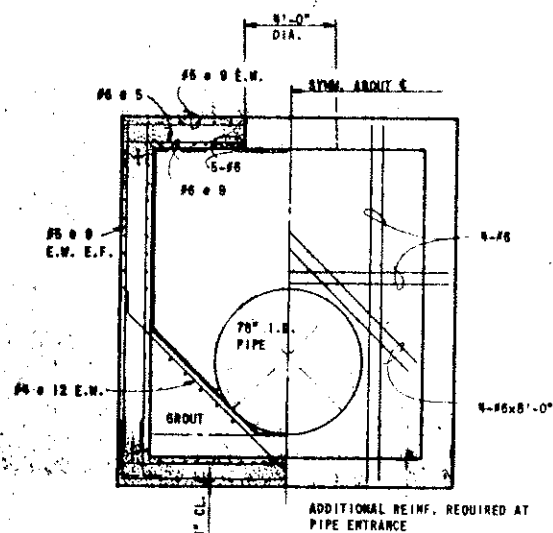
SECTION I
(SHOWING ADDITIONAL REINF. AT OPENING)
313



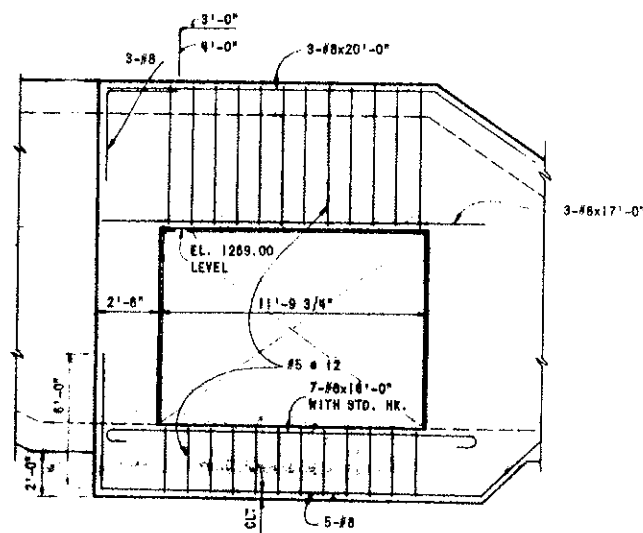
SECTION L
313



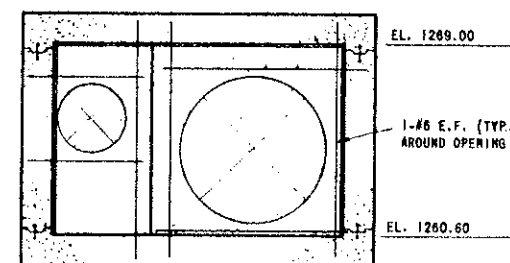
OVERFLOW STRUCTURE
SCALE: 1/4" = 1'-0"



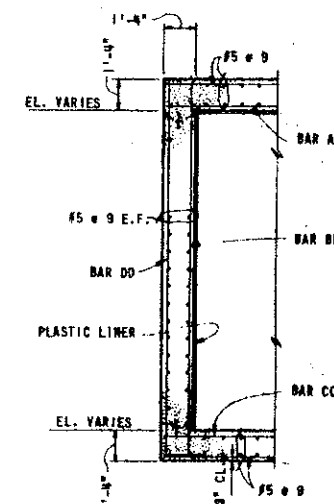
SECTION F
313



SECTION J
(SHOWING BEAM REINF.)
313

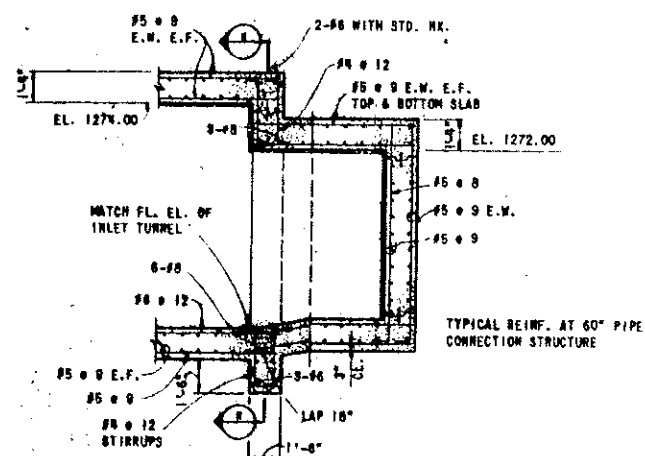


SECTION K
(SHOWING ADDITIONAL REINF. AT OPENING)
313



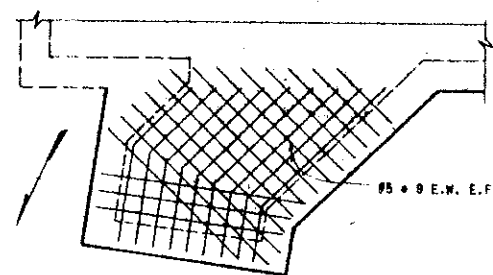
TYPICAL WALL SECTION M
(WITH REINF. SCHEDULE)
313

WALL MARK	BAR	REINF.
A ₁ & E ₁	AA	#5 # 9
A ₂ & E ₂	BB	#5 # 9
A ₃ & E ₃	CC	#5 # 12
A ₄ & E ₄	DD	#5 # 9
B ₁ , C ₁ & D ₁	AA	#5 # 9
B ₂ , C ₂ & D ₂	BB	#5 # 9
B ₃ , C ₃ & D ₃	CC	#5 # 12
B ₄ , C ₄ & D ₄	DD	#5 # 9
F ₁ & G ₁	AA	#7 # 7
F ₂ & G ₂	BB	#8 # 8
F ₃ & G ₃	CC	#7 # 6
F ₄ & G ₄	DD	#5 # 7

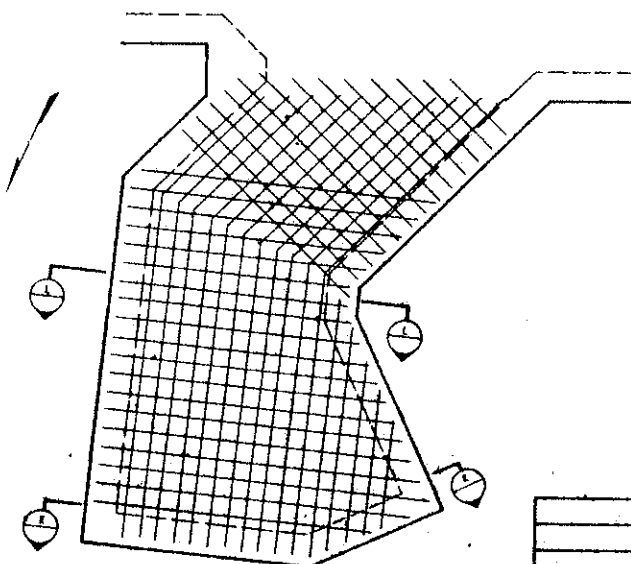


SECTION G
313

PLAN OF REINF. @ 60" PIPE CONNECTION STRUCTURE
(TOP & BOTTOM FOR ROOF AND FLOOR SLABS)

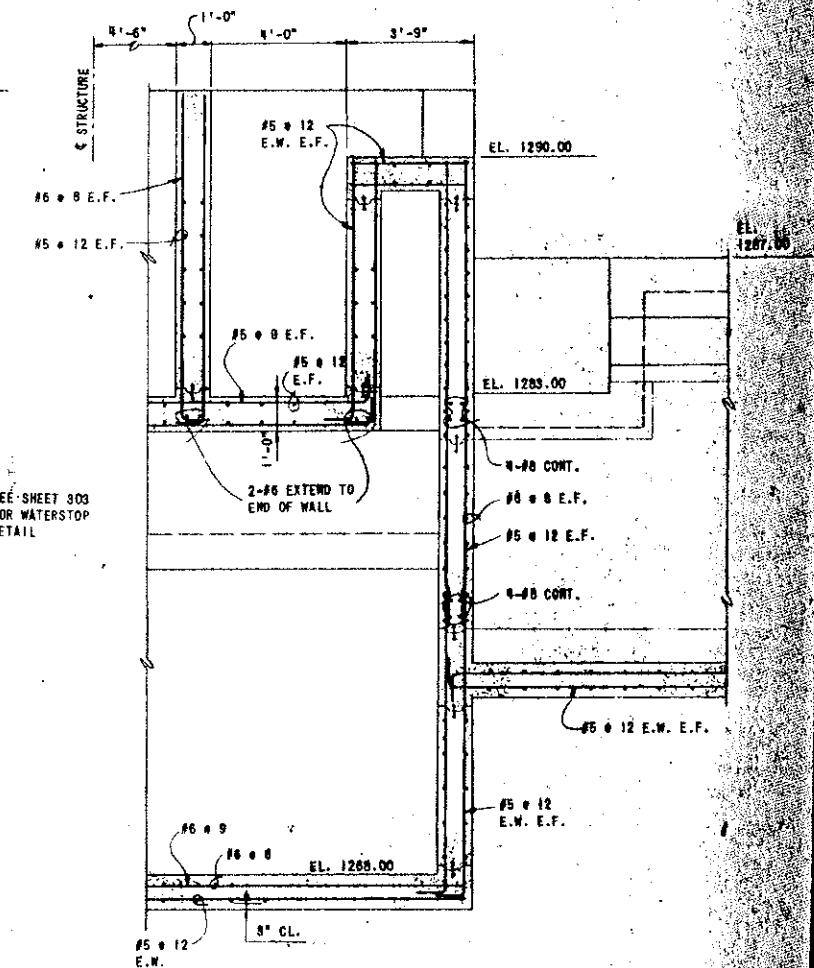


PLAN OF REINF. @ 78" x 36" PIPE CONNECTION STRUCTURE
(TOP & BOTTOM FOR ROOF AND FLOOR SLABS)



NOTE: ALL DETAILS THIS SHEET NOT TO SCALE

WICHITA, KANSAS PLANT NO. 1 PUMP STATION INLET TUNNEL AND OVERFLOW STRUCTURE SECTIONS STRUCTURAL		DESIGN RJS	DRAWN WFR	DATE FEB 1974
SHELLY-WILSON ENGINEERS-ARCHITECTS-PLANNERS 1001 N. W. 10th St., Suite 200 Wichita, Kansas 67202		FILE NO. 75-1017 SHEET NO. 313 OF 313		



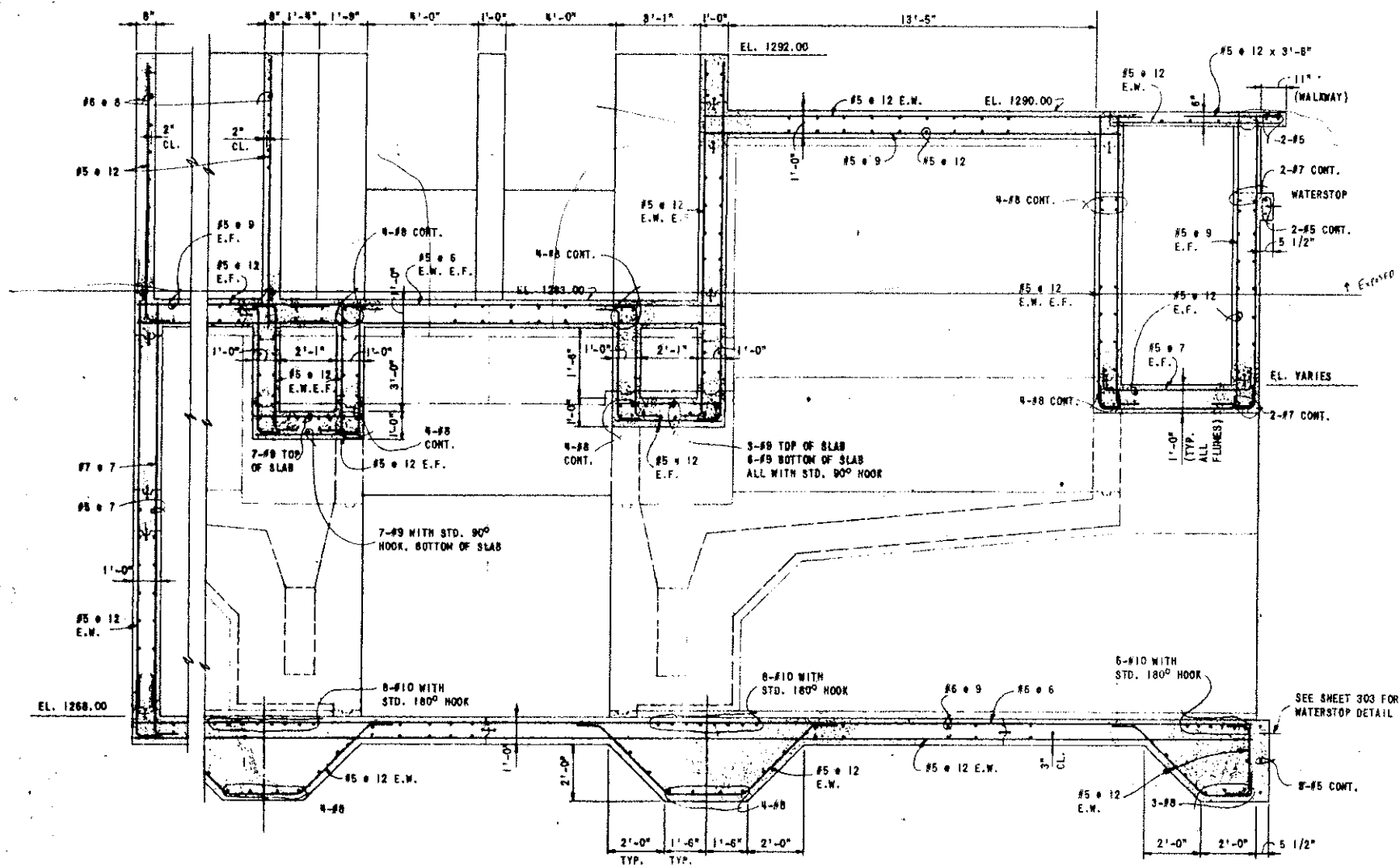
BRIT BASIN NOTES:

1. DO NOT REMOVE FORMS FOR FLOORS UNTIL ALL WALLS HAVE REACHED DESIGN STRENGTH.
2. WATERSTOPS SHALL BE 6x3/8" PVC UNLESS OTHERWISE NOTED.
3. CONSTRUCTION JOINT AS SHOWN ON PLANS AND DETAILS.
4. FILL GRIT BASIN FACILITY TO CAPACITY BEFORE BACKFILLING. FILL SEPARATE BASINS SIMULTANEOUSLY AND MAINTAIN WATER LEVEL AT CAPACITY FOR 7 DAYS.

FLOOR PLAN OF BASE SLAB

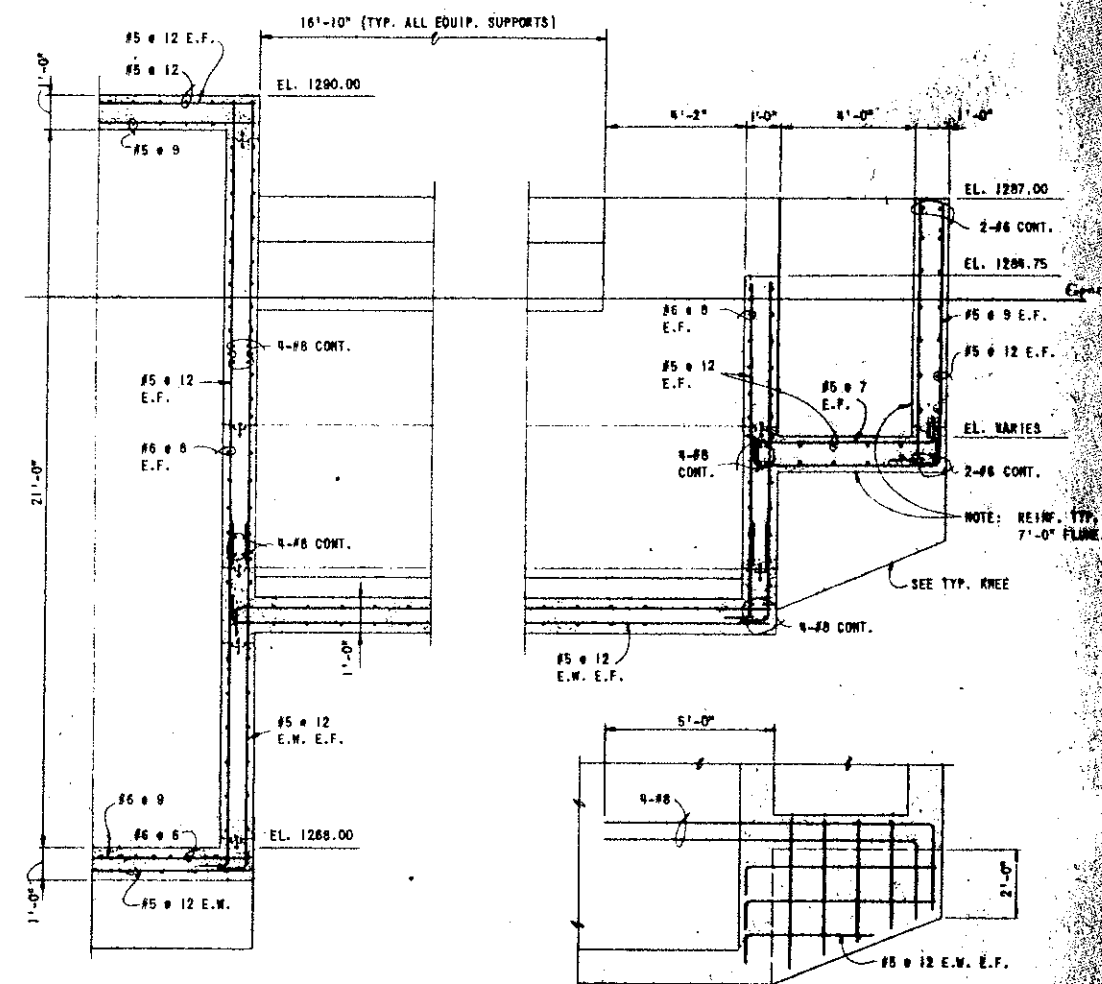
$$g/g^n = 1 - 0^n$$

			DESIGN KJS	DRAWN WFR	 SHELLEY-WILSON ENGINEERS-ARCHITECTS-PLANNERS 1040 AVENUE OF THE STARS • SUITE 200 • FALLS CHURCH, VIRGINIA 22044	DATE: FEB. 1978
						FILE NO. 78-001X
REVISION			DATE	BY		SHEET NO. 010
						OF 010



SECTION A
NOT TO SCALE

NOTE:
ALL MATERIAL BENEATH THE GRIT BASIN FACILITY SHALL BE REMOVED TO ELEVATION 1256.0. THE AREA OF OVEREXCAVATION SHALL EXTEND TO THE PUMPING STATION FOUNDATION ON THE EAST AND TO A DISTANCE OF 11 FEET BEYOND THE EXTERIOR WALLS OF THE GRIT BASINS TO THE NORTH, WEST, AND SOUTH. THE OVEREXCAVATED AREA SHALL BE BACKFILLED WITH CLEAN COARSE SAND HAVING A FINENESS MODULUS NOT LESS THAN 2.7 AND CONTAINING NOT MORE THAN 3% BY WEIGHT OF PARTICLES PASSING THE NO. 200 SIEVE. SAND SHALL BE PLACED AND COMPACTED TO A MINIMUM DENSITY OF 95% OF MAXIMUM AS DETERMINED BY ASTM D-2949. GRIT BASIN FACILITY FOUNDATION SHALL BE PLACED ON THE COMPACTED SAND.

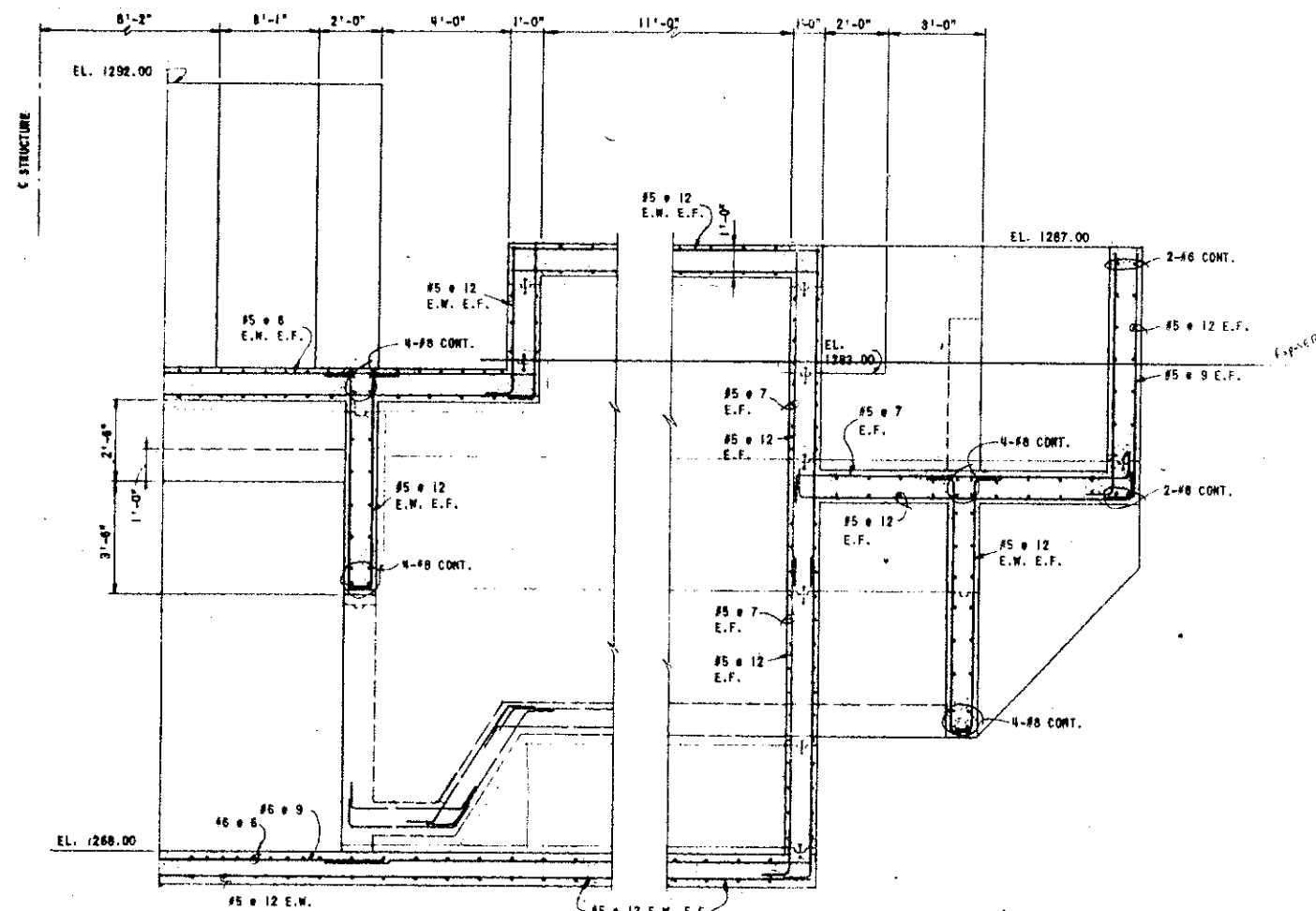


SECTION D
8/8" = 1'-0"

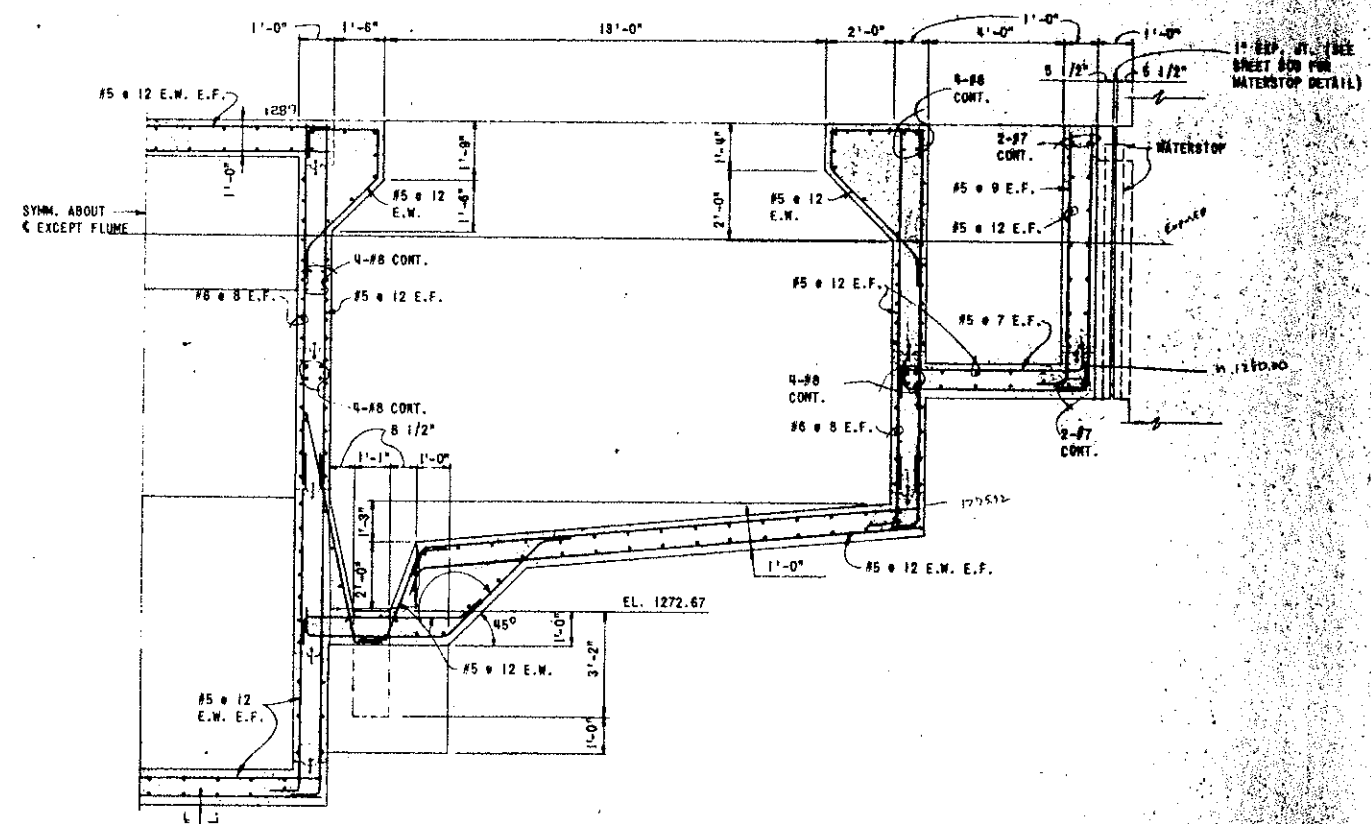
TYPICAL KNEE DETAIL (4'-0" FLUME)

WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
GRIT BASIN FACILITY DETAILS
STRUCTURAL

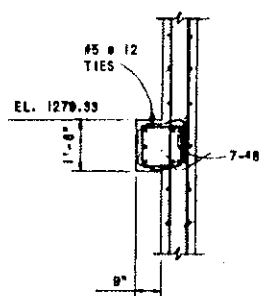
DESIGN KJS	DRAWN WFR	DATE FEB. 1979
		FILE NO. 79-161A
		SHEET NO. 317
REVISION DATE BY		OF 318



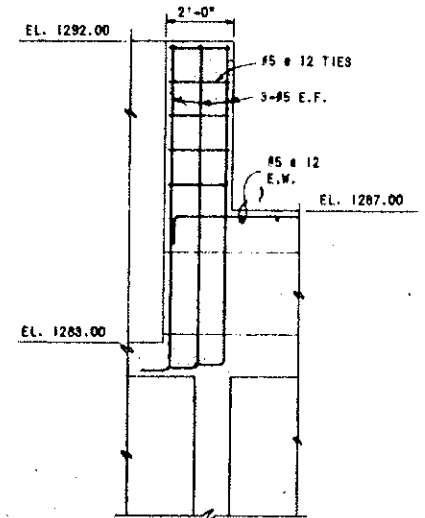
SECTION B
3/8" = 1'-0"



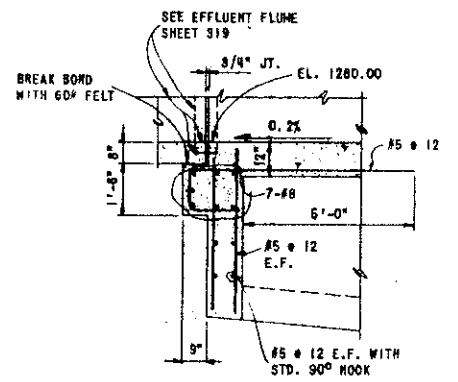
SECTION C
3/8" = 1'-0"



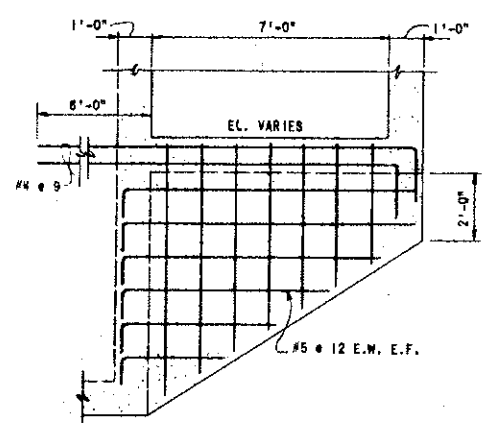
SECTION F
3/8" = 1'-0"



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



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



TYPICAL KNEE DETAIL (7'-0" FLUME)

DESIGN KJS		CHECK WFR		DATE JUN 1978	
PROJECT GRIT BASIN FACILITY - WYOMING		SHEET 7184		FILE NO.	
REVISION		DATE		BY	

NOTE:

PIPE FILLER PIECES FROM INLET TUNNEL TO EXISTING INTERCEPTORS TO BE INSTALLED WITH STEEL WATERSTOP RING JOINTED TO SPIGOT. FILLER PIECE WITH WATERSTOP TO BE JOINTED TO EXISTING PIPE, THEN CAST IN INLET TUNNEL WALL.

78" FILLER PIECE FACTORY ORDERED TO REQ'D. LENGTH, STEEL SPIGOT & BELL END. SEE TYPICAL PIPE CONNECTION DETAIL, SHEET NO. 417

NEW 36" INTERCEPTOR, SEE TYPICAL PIPE CONNECTION DETAIL, SHEET NO. 417

FL. IN 1264.29

EXISTING 78" INTERCEPTOR PIPE JOINT TO BE FIELD LOCATED

FL. IN OF NEW PIPE TO MATCH FL. OF REMOVED EXISTING INTERCEPTOR

EXISTING 60" INTERCEPTOR PIPE JOINT TO BE FIELD LOCATED

60" FILLER PIECE FACTORY ORDERED TO REQ'D. LENGTH, STEEL SPIGOT & BELL END, SEE TYPICAL PIPE CONNECTION DETAIL, SHEET NO. 417

FL. IN OF NEW PIPE TO MATCH FL. OF REMOVED EXISTING INTERCEPTOR

FL. IN 1265.02

EXISTING INTERCEPTOR TO BE REMOVED

EXISTING INTERCEPTOR TO BE REMOVED

EXISTING 60" INTERCEPTOR PIPE JOINT TO BE FIELD LOCATED

NEW 48" INTERCEPTOR, SEE TYPICAL PIPE CONNECTION DETAIL, SHEET NO. 417

PLUG WITH CONCRETE (2'-0" MINIMUM)

FL. OUT OF NEW PIPE TO MATCH FL. OF REMOVED EXISTING INTERCEPTOR

78" FILLER PIECE FACTORY ORDERED TO REQ'D. LENGTH PE & STEEL SPIGOT, SEE TYPICAL PIPE CONNECTION DETAIL, SHEET NO. 417

EXISTING 78" INTERCEPTOR PIPE JOINT TO BE FIELD LOCATED

PLAN

EL. 1275.33

EXPANSION JOINT

EL. 1270.33

EL. 1260.00

1.00% SLOPE

PLASTIC LINER

NEW 48" INTERCEPTOR

INV. IN 1265.02

EL. 1264.00

1.00% SLOPE

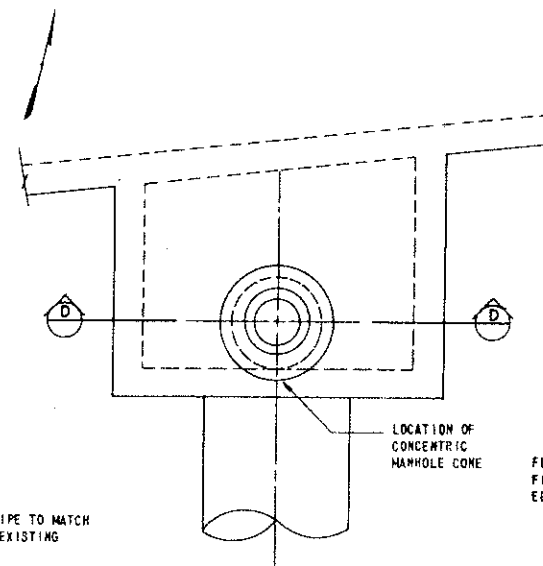
SECTION A

INLET TUNNEL

1/4" = 1'-0"

NOTE:

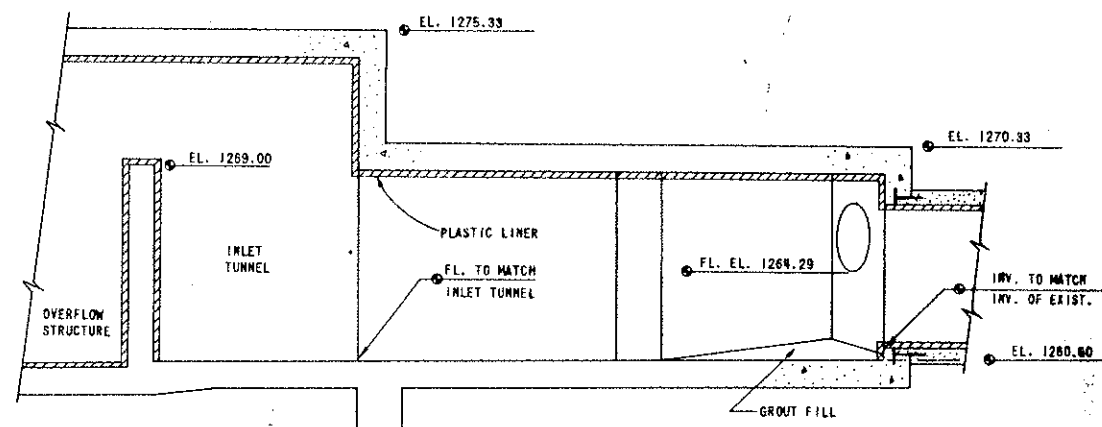
POINTS OF ELEVATIONAL CHANGE IN THE TOP SLAB AND POINTS OF SLOPE CHANGE IN THE BOTTOM SLAB WILL BE DETERMINED BY THE FIELD LOCATION OF THE EXISTING INTERCEPTORS DURING CONSTRUCTION. RELATIONSHIPS OF THESE POINTS AND EXISTING INTERCEPTORS ARE SHOWN ON THE PLAN VIEW.



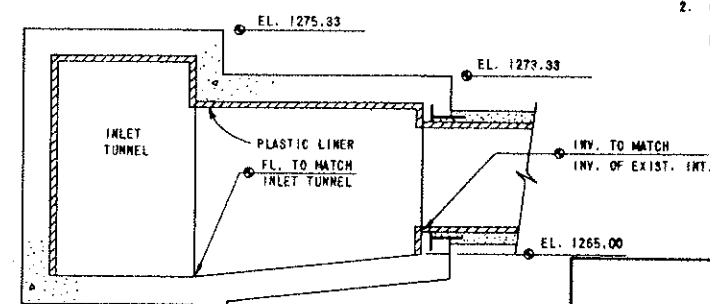
PLAN

OVERFLOW STRUCTURE

1/4" = 1'-0"



SECTION B



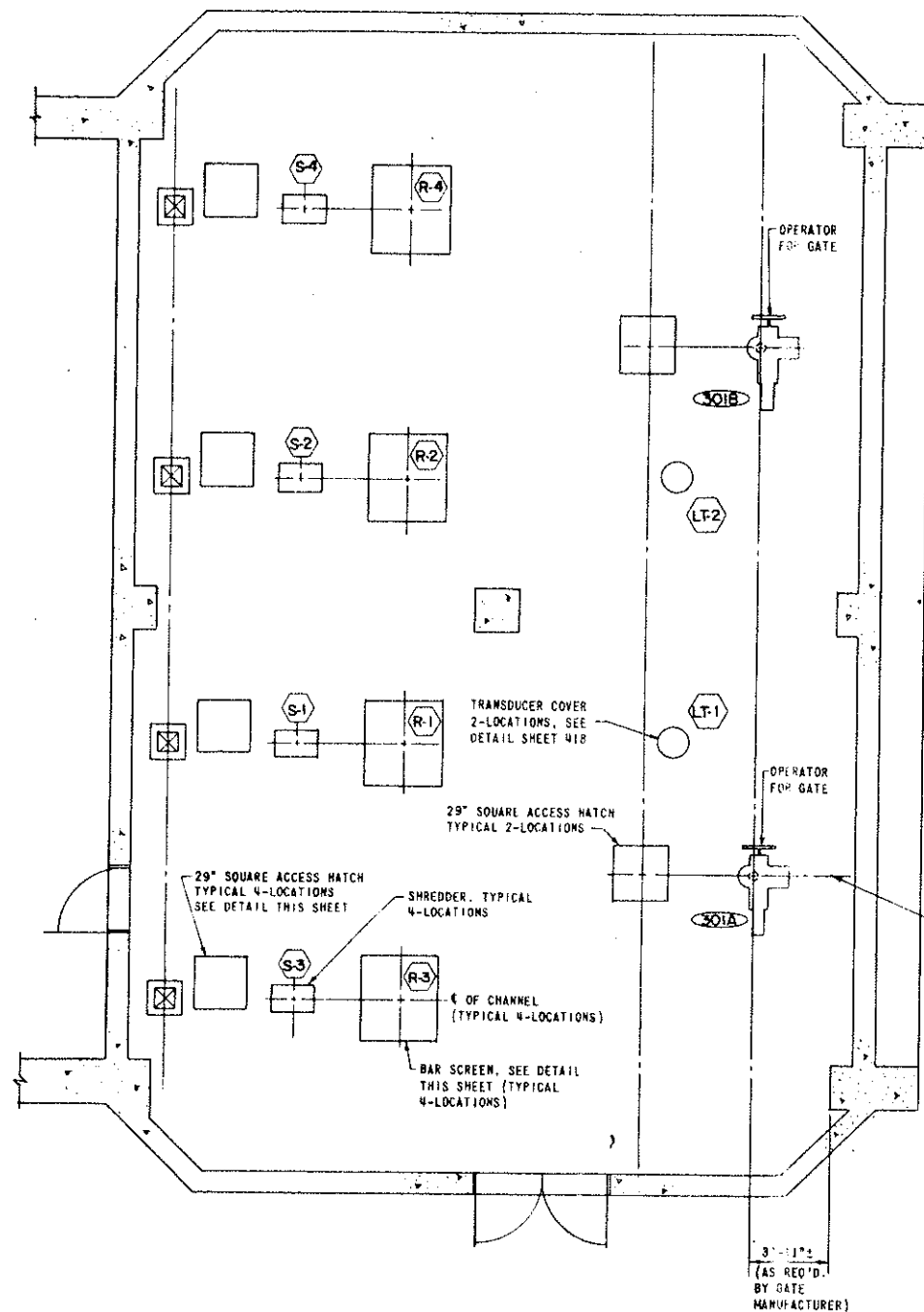
SECTION C

NOTES:

1. INLET TUNNEL TO HAVE PLASTIC LINER CAST INTO PLACE ON ALL INTERIOR SURFACES EXCLUDING FLOOR.
2. OVERFLOW STRUCTURE TO HAVE PLASTIC LINER CAST INTO PLACE ON ALL INTERIOR SURFACES INCLUDING FLOOR.

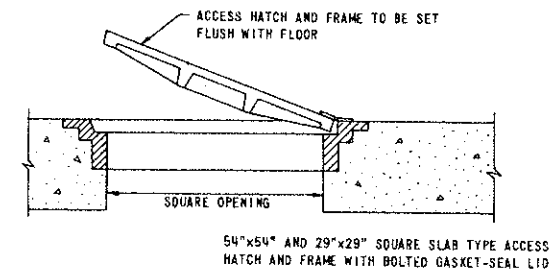
WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
INLET TUNNEL AND OVERFLOW STRUCTURE
ENVIRONMENTAL

DESIGN JBB	DRAWN AAD	DATE FEB. 1979
SHELLEY-WILSON ENGINEERS-ARCHITECTS-PLANNERS		FILE NO. 75-101A
SHEET NO. 401		OF 421



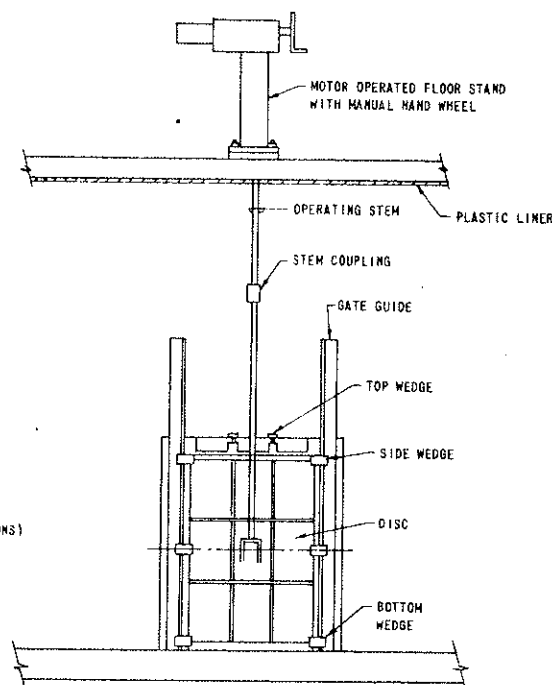
HEADWORKS STRUCTURE - OPERATIONS LEVEL

1/4" = 1'-0"



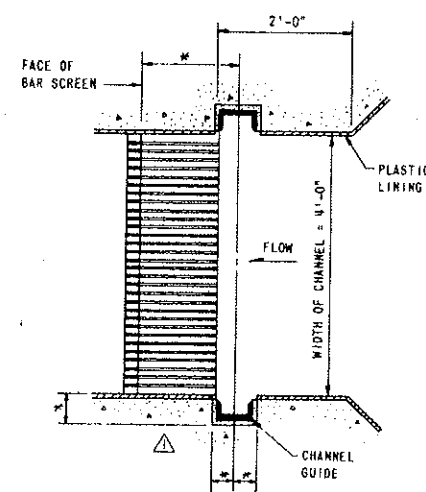
ACCESS HATCH AND FRAME

NOT TO SCALE

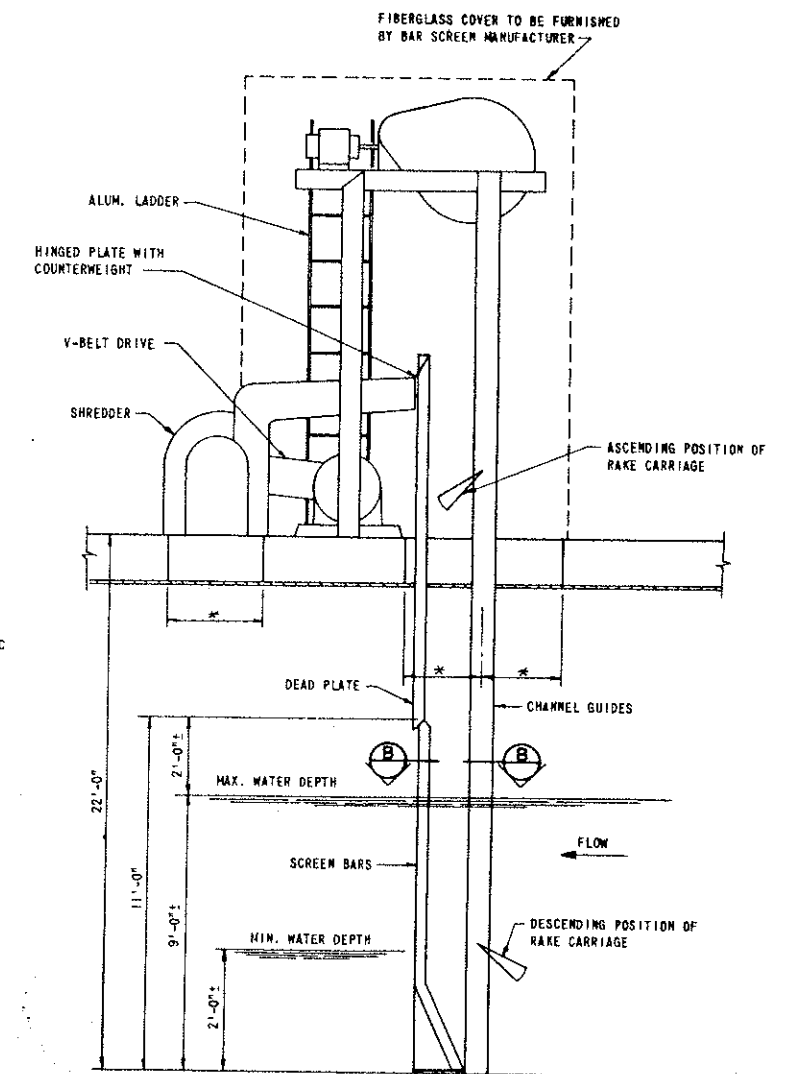


SLUICE GATE DETAIL

1/4" = 1'-0"
(2-REQUIRED)



SECTION B
3/4" = 1'-0"



MECHANICAL BAR SCREEN

NOT TO SCALE

* AS REQUIRED FOR EQUIPMENT FURNISHED

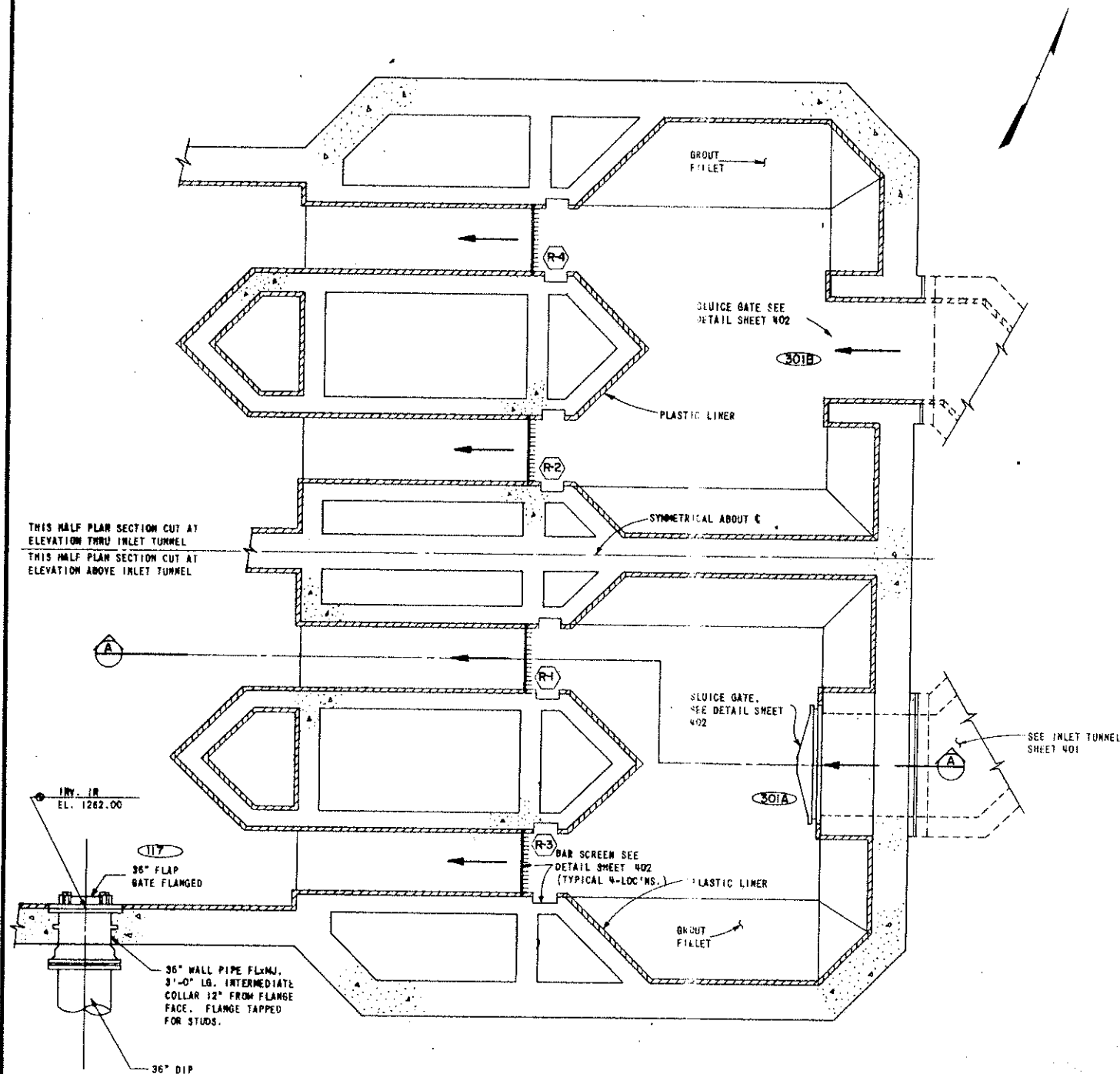
WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
HEADWORKS STRUCTURE - OPERATIONS LEVEL
ENVIRONMENTAL

BAR SCREEN SECTION REVISED	APR. 78	JGG	DESIGN	JGG	DATE	FEB. 1978
			DRAWN	RAL	FILE NO.	75-101A
					SHEET NO.	402
					OF	421
REVISION	DATE	BY				



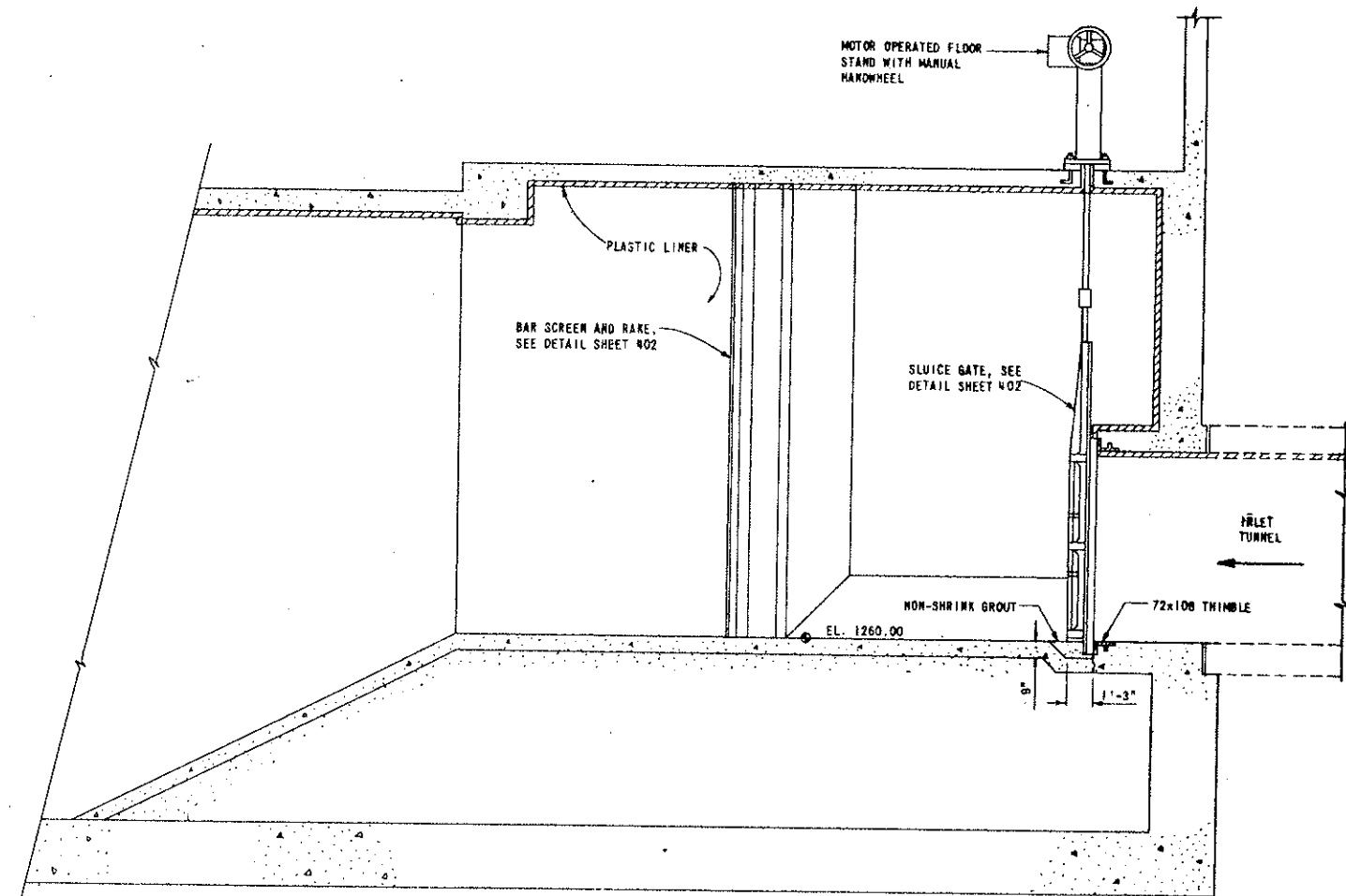
SHELLEY-WILSON
ENGINEERS-ARCHITECTS-PLANNERS

222 LAUREL • WICHITA, KANSAS 67201



HEADWORKS STRUCTURE - PUMP LEVEL

1/4" = 1'-0"



SECTION A
1/4" = 1'-0"

WET WELL
FLOW METER TRANSDUCERS

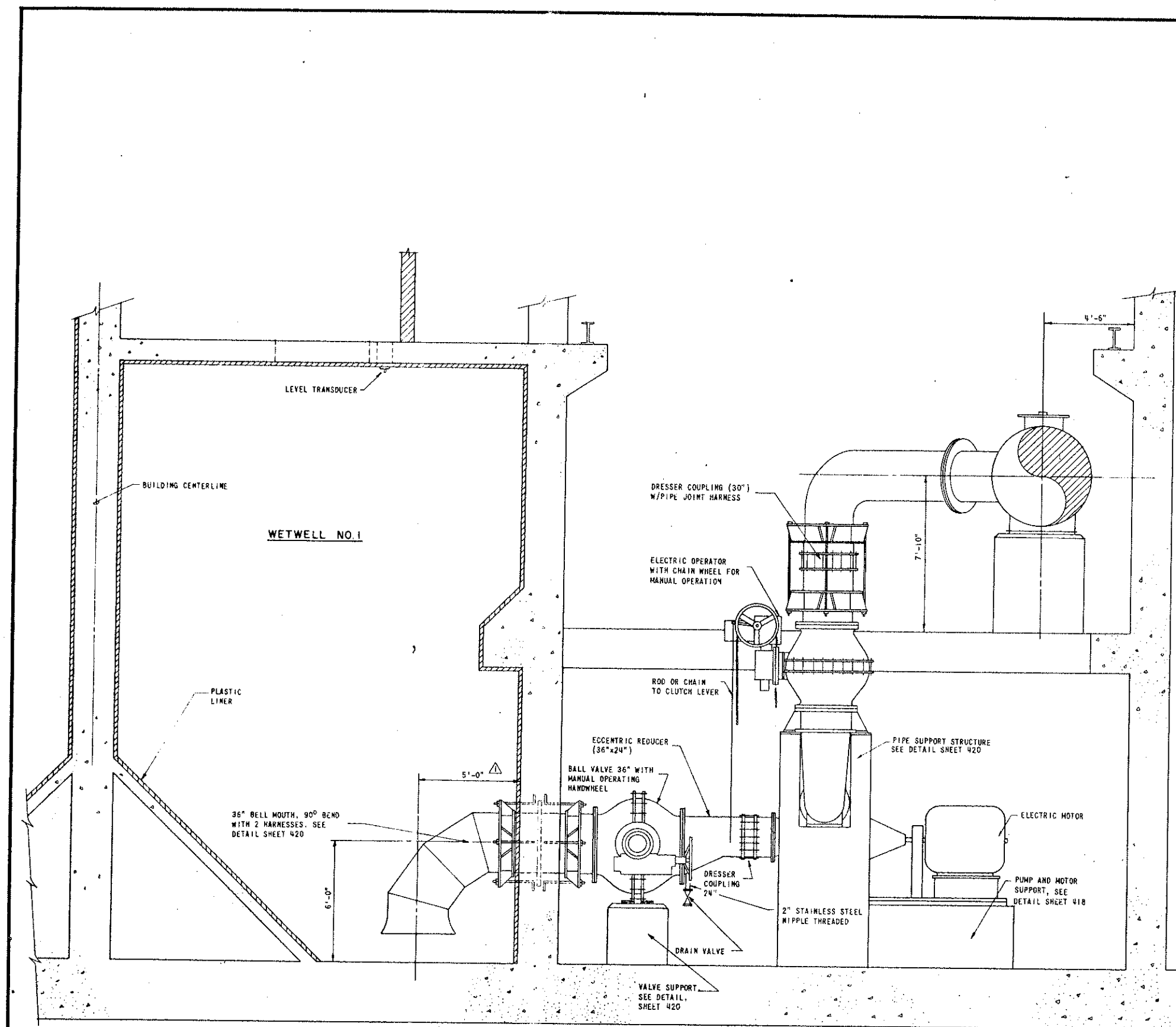
* HEADWORKS MAIN HOLE
22" DIA. TIGHT
- WATER LEVEL IS AT
TUNNEL AND
+ 10" DIA. HOLES
- TUNNEL LOCATED 10' IN

* CONVERT FEET TO INCHES
THAN FOR TOTAL WETWELL
DIVIDE BY 10 BECAUSE L.E.D. GOES IN 10'S
WHICH INCHES GO IN 12'S

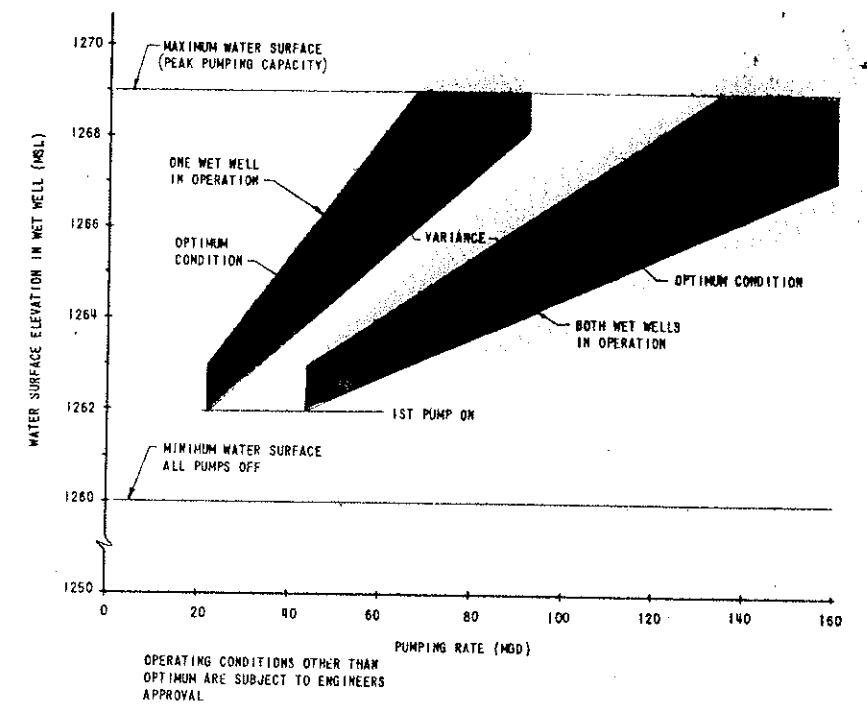
- NOTES:
1. HEADWORKS STRUCTURE TO HAVE PLASTIC LINER CAST INTO PLACE ON ALL INTERIOR SURFACES, EXCLUDING FLOOR.
 2. CONCRETE VOIDS USED AS AIR DUCTS TO HAVE PLASTIC LINER ALL SURFACES.

WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
HEADWORKS STRUCTURE - PUMP LEVEL
ENVIRONMENTAL

DESIGN JGG	DATE	BY	DATE	BY
DRAWN RAO				
WICHITA, KANSAS 66211				
DATE: FEB. 1978 FILE NO. 75-181A SHEET NO. 402 OF 421				



ELEVATION
PUMP PIT AND WETWELL NUMBER 1
 3/8" = 1'-0"



PUMP CONTROL SCHEDULE
PUMPING RATE VS. WETWELL WATER LEVEL

NOTE:
 PUMP PIT NUMBER 2 SAME AS NUMBER 1, SYMMETRICAL ABOUT BUILDING CENTERLINE.

DESIGNED	APR. 78	JGG
DRAWN		
CHECKED		
APPROVED		
REVISION	DATE	BY

WICHITA, KANSAS		DATE:	FEB. 1978
PLANT NO. 1 PUMPING STATION		FILE NO.	75-101A
PUMP PIT AND WET WELL - ELEVATION		SHEET NO.	408
ENVIRONMENTAL		OF	421

DESIGN: JGG

DRAWN: RAL

CHECKED: JGG

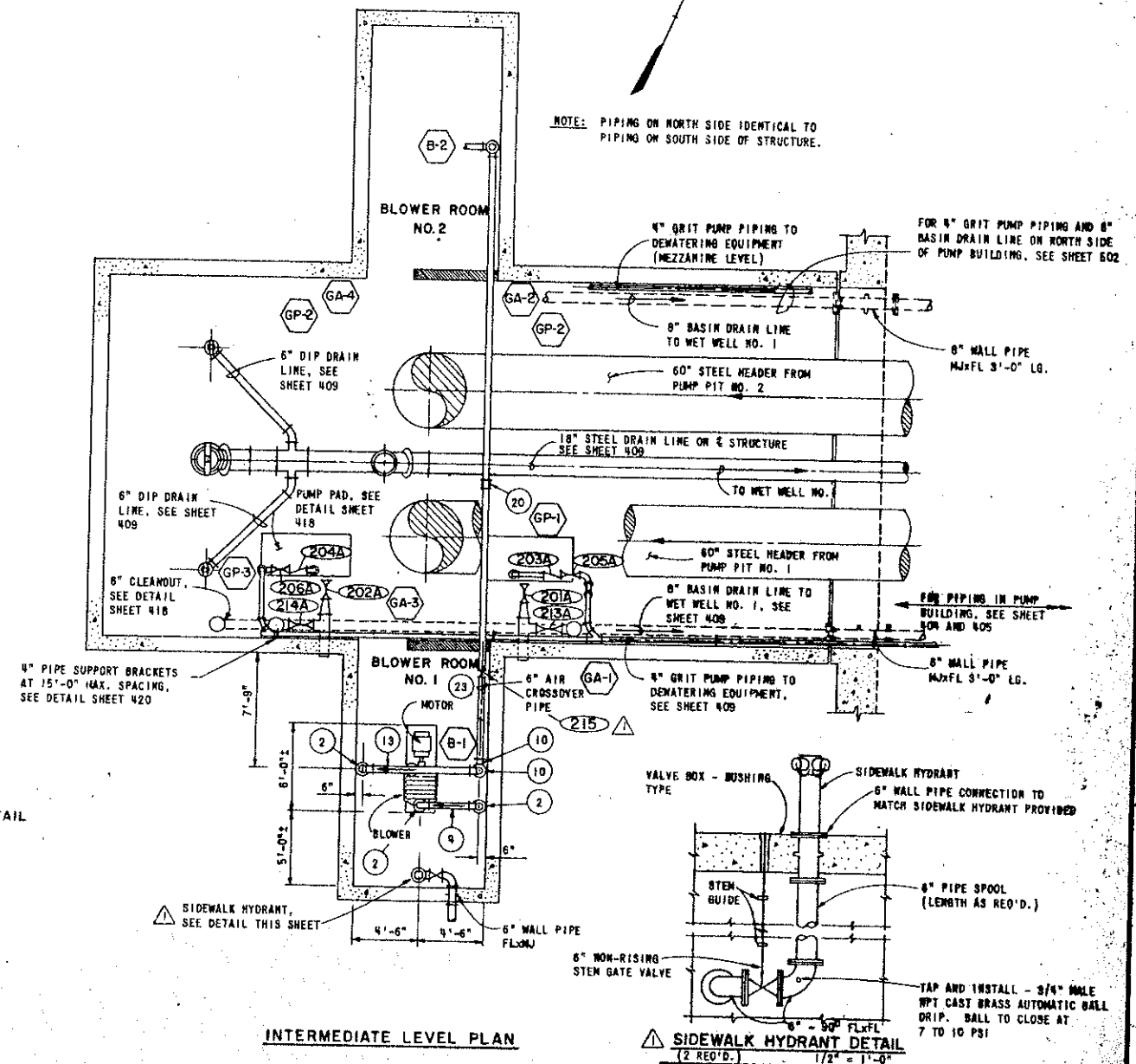
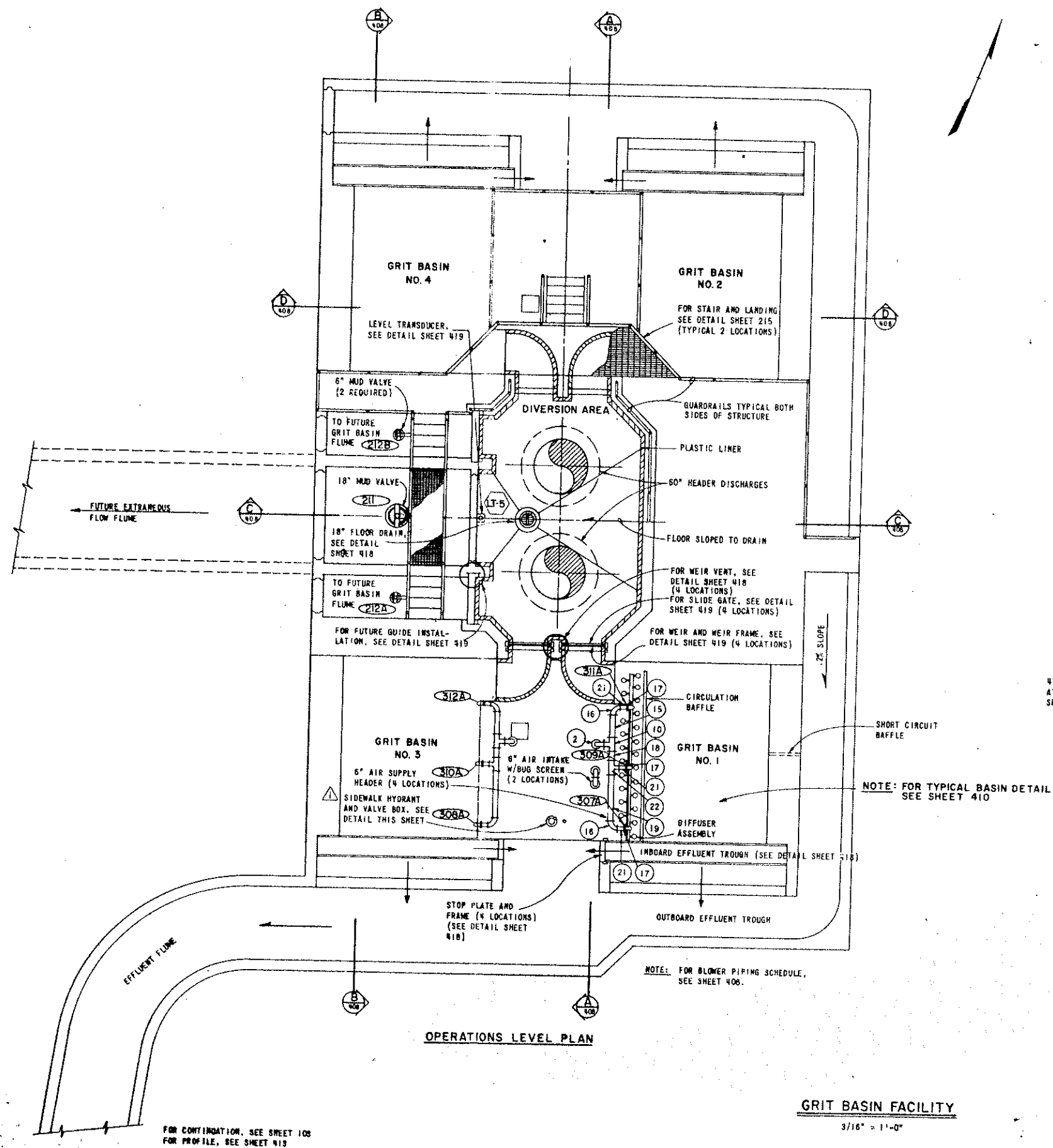
APPROVED: JGG

7547

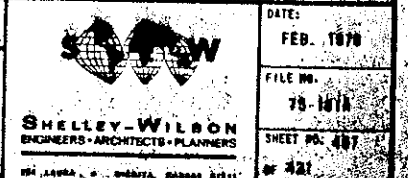
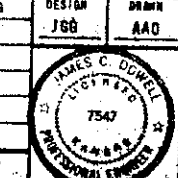
REGISTERED PROFESSIONAL ENGINEER

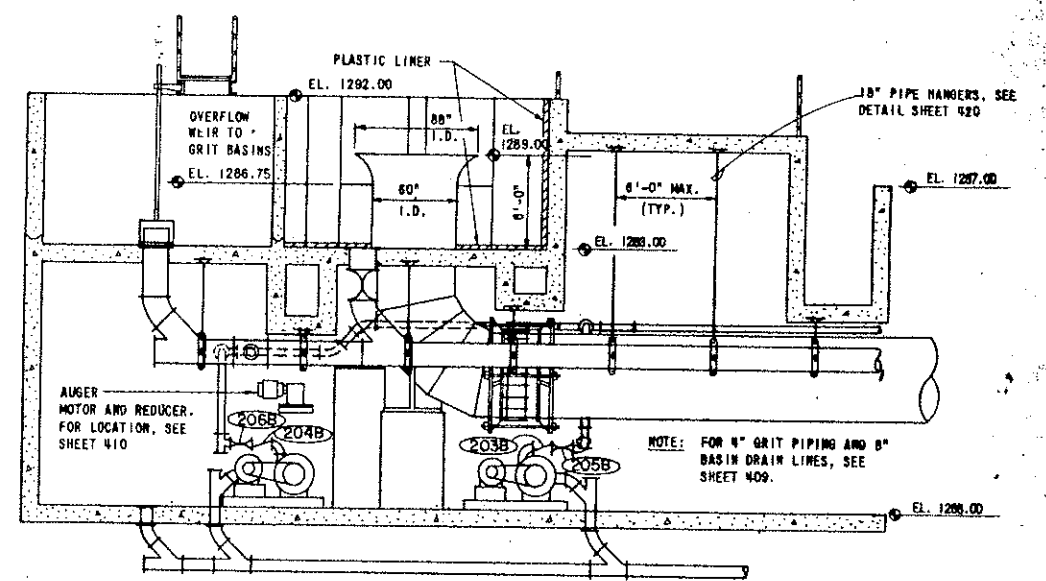
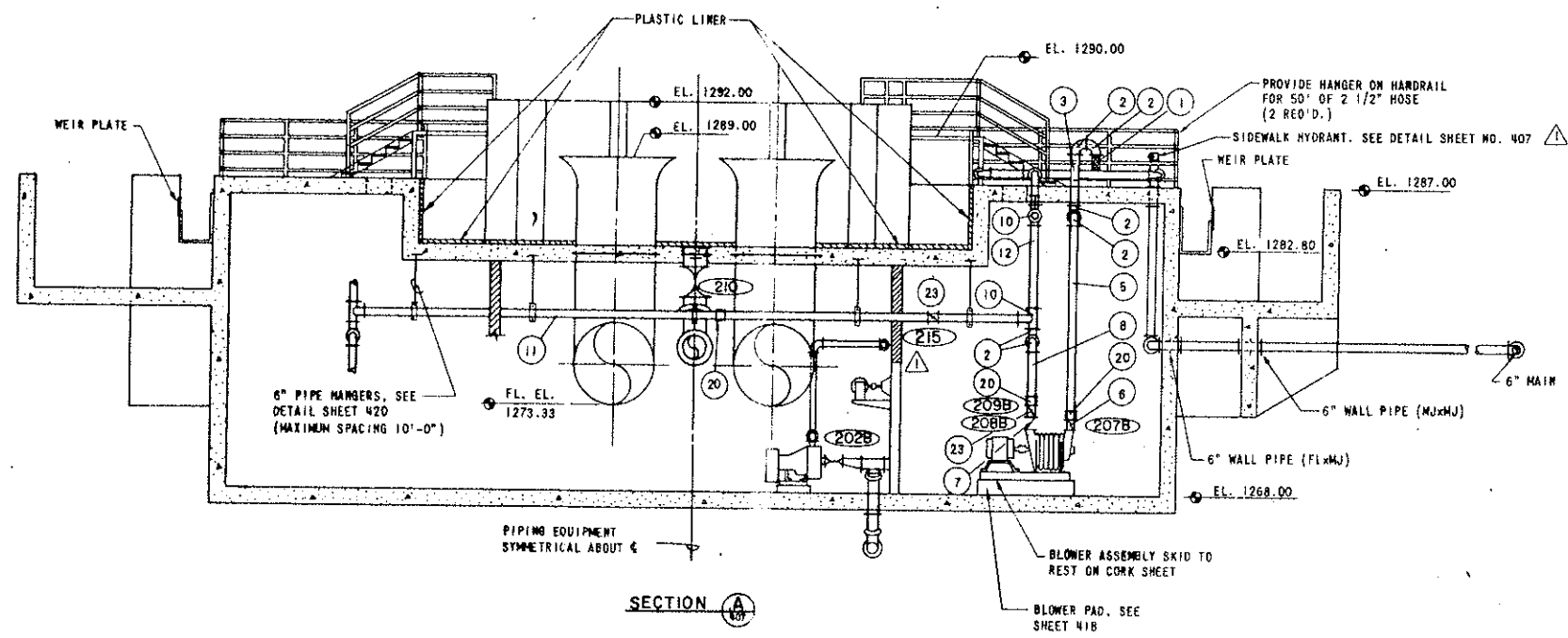
SHELLEY-WILSON
 ENGINEERS-ARCHITECTS-PLANNERS

200 LAMAR & GENESEE, KANSAS 66201



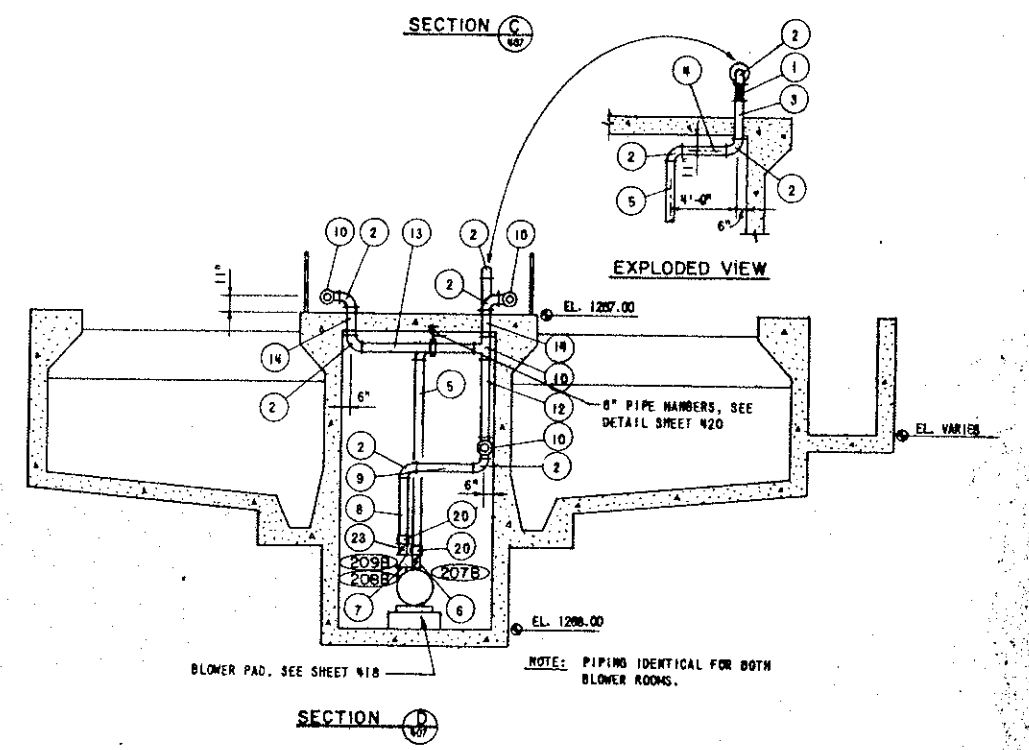
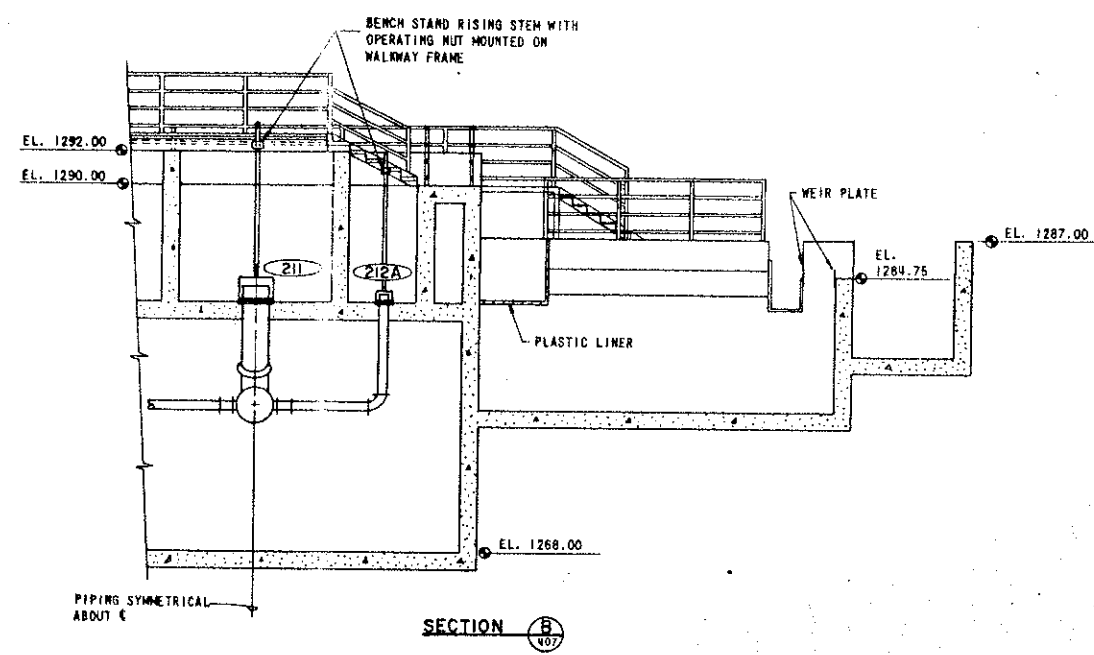
ADD BUTTERFLY VALVE	APR. 78	JGB	DESIGN	DRWN	DATE
ADD SIDEWALK HYDRANT			JGB	AAO	FEB. 1978
					FILE NO.
					75-1078
					SHEET NO. 407
					OF 421
REVISION	DATE	BY			





BLOWER PIPING SCHEDULE	
1	6" FLANGED BUG SCREEN
2	6"-90° BEND
3	6" WALL PIPE 2'-11" LG. INTERMEDIATE FLANGE 9" FROM FLANGE FACE
4	6" PIPE SPOOL 2'-6"
5	6" PIPE SPOOL
6	6" BLAST GATE
7	6" CHECK VALVE
8	6" PIPE SPOOL *
9	6" PIPE SPOOL *
10	6"x6"x6" TEE
11	6" PIPE SPOOL 40'-8"
12	6" PIPE SPOOL 8'-9" LG.
13	6" PIPE SPOOL 6'-8" LG.
14	6" WALL PIPE 1'-6" LG.
15	6" PIPE SPOOL 2'-2" LG.
16	6"x2 1/2" REDUCING 90° BEND
17	2 1/2" PLUG VALVE
18	6" PIPE SPOOL 11" LG.
19	6" PIPE SPOOL 4'-5" LG.
20	6" EXPANSION JOINT
21	2 1/2" PIPE SPOOL 6 1/2" LG.
22	6"x6"x2 1/2" TEE
23	6" BUTTERFLY VALVE

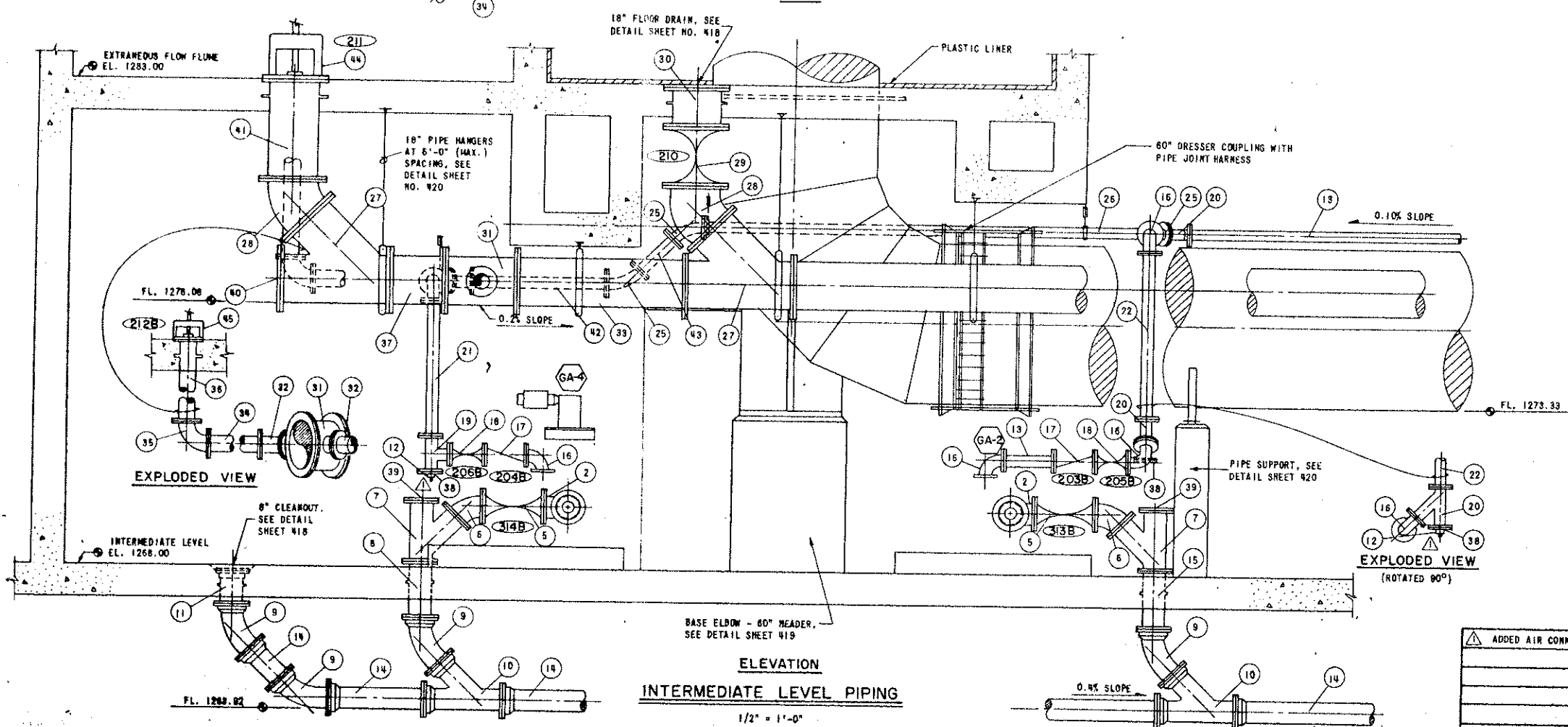
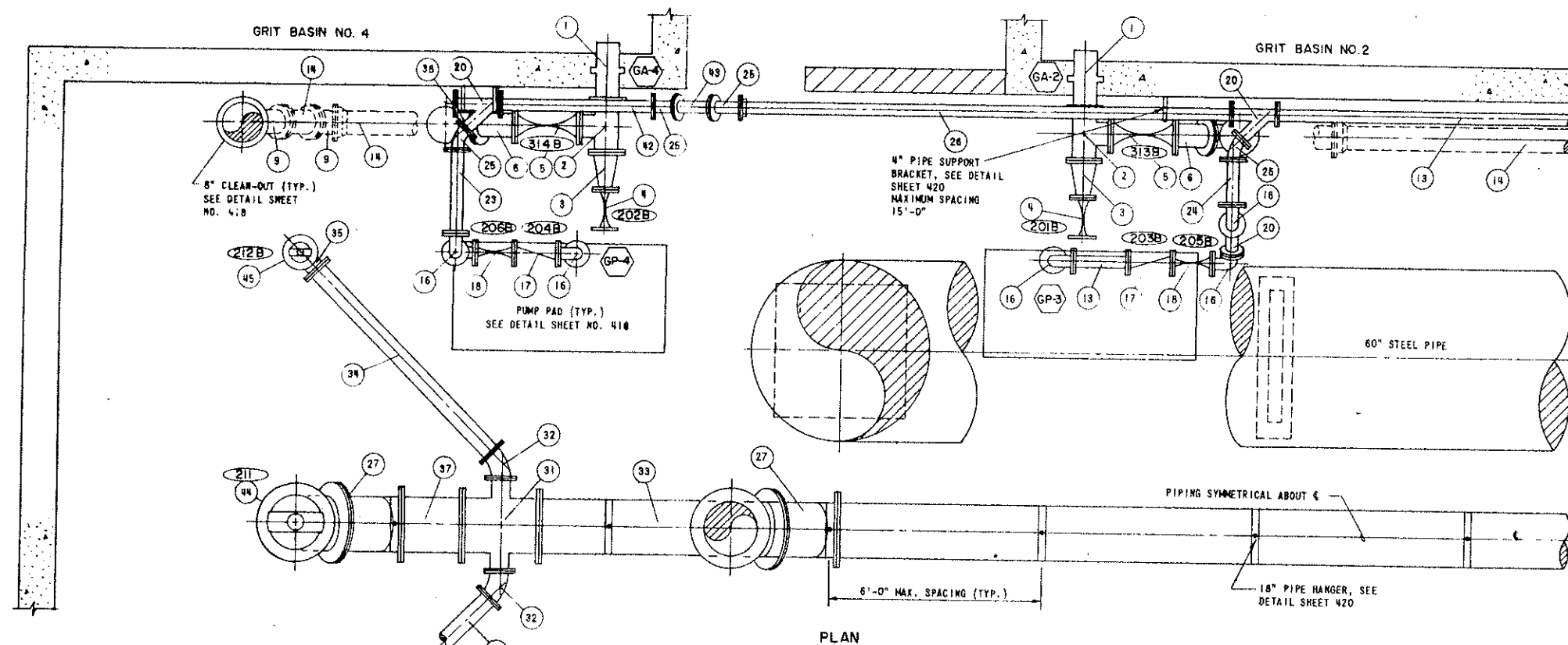
* LENGTH AS REQUIRED. BASED ON BLOWER SUPPLIED
ALL PIPING FLANGED UNLESS OTHERWISE NOTED



GRIT BASIN FACILITY - SECTIONS
3/16" = 1'-0"

NOTE: FOR PIPE HANGER DETAILS, SEE SHEET 420.

WICHITA, KANSAS		PLANT NO. 1 PUMPING STATION		GRIT BASIN FACILITY - SECTIONS		ENVIRONMENTAL	
DESIGN	DATE	APR. 78	JGB	DESIGN	DATE	FEB. 1978	FILE NO.
ADD BUTTERFLY VALVE				ADD SIDEWALK HYDRANT			75-181A
SHELLEY-WILSON ENGINEERS-ARCHITECTS-PLANNERS				SHEET NO. 407			



PIPING SCHEDULE		
1	8" WALL PIPE	FLXPE 1'-8" LG.
2	8" TEE	FLXFLXFL
3	8"x4" REDUCER	FLXFL CONCENTRIC
4	8" PINCH VALVE	FLXFL
5	8" PINCH VALVE	FLXFL
6	8"-45° BEND	FLXFL
7	8" WYE	FLXFL
8	8" WALL PIPE	FLXPE 1'-8 1/2" LG. FL. TAPPED FOR STUDS
9	8"-45° BEND	FLXPE
10	8" WYE	FLXPEXWJ
11	8" WALL PIPE	FLXPE 1'-8 1/2" LG. INTERMEDIATE FL. 5" FROM FACE OF 1/4" BELL
12	AIR CONNECTION	1'-1 1/2" LG. TAPPED FLX WITH 1/4" MALE WPT PLUG
13	4" PIPE SPOOL	FLXFL LENGTH AS REQUIRED
14	8" PIPE	FLXPE LENGTH AS REQUIRED
15	8" WALL PIPE	FLXPE 1'-9 1/2" LG. FL. TAPPED FOR STUDS
16	4"-90° BEND	FLXFL
17	4" CHECK VALVE	FLXFL
18	4" PINCH VALVE	FLXFL
19	4" TEE	FLXFLXFL
20	4" WYE	FLXFLXFL
21	4" PIPE SPOOL	FLXFL 4'-0" LG.
22	4" PIPE SPOOL	FLXFL 5'-1 1/2" LG.
23	4" PIPE SPOOL	FLXFL 2'-1 1/2" LG.
24	4" PIPE SPOOL	FLXFL 1'-0 1/2" LG.
25	4"-45° BEND	FLXFL
26	4" PIPE	FLXFL 11'-10" LG.
27	18" WYE	FLXFLXFL
28	18"-45° BEND	FLXFL
29	18" PINCH VALVE	FLXFL
30	18" PIPE SPOOL	FLXFL 11'-1" LG. INTERMEDIATE FL. 6" FROM FLANGE FACE
31	18"x6" CROSS	FLXFL
32	6"-45° BEND	FLXFL
33	18" PIPE SPOOL	FLXFL 5'-1 1/2" LG.
34	6" PIPE SPOOL	FLXFL 7'-1 1/2" LG.
35	6"-90° BEND	FLXFL
36	6" PIPE SPOOL	FLXFL 5'-4" LG. 1" FLANGE TAPPED FOR STUDS INTERMEDIATE FLANGE 6" FROM TAPPED FLANGE FACE
37	18" PIPE SPOOL	FLXFL 1'-8 1/2" LG.
38	4" BLIND FLANGE	FLANGE DRILLED AND TAPPED WITH 1/4" WPT HOLE IN CENTER WITH PLUG
39	8" BLIND FLANGE	
40	18" BLIND FLANGE	* DRILLED AND TAPPED FOR 1" PLUG
41	18" PIPE SPOOL	FLXFL 9'-1" LG. 1" FLANGE TAPPED FOR STUDS INTERMEDIATE FLANGE 6" FROM TAPPED FLANGE FACE
42	4" PIPE SPOOL	FLXFL 4'-4" LG.
43	4" PIPE SPOOL	FLXFL 2'-1" LG.
44	18" MUD VALVE	FL
45	6" MUD VALVE	FL

* 18" PIPING IS STEEL. ALL FITTINGS AND SPOOLS MAY BE SHOP WELDED. FIELD JOINTS MAY BE DRESSER TYPE COUPLINGS

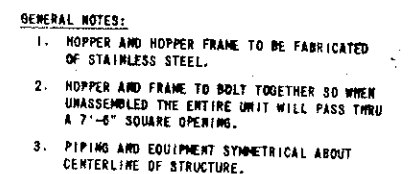
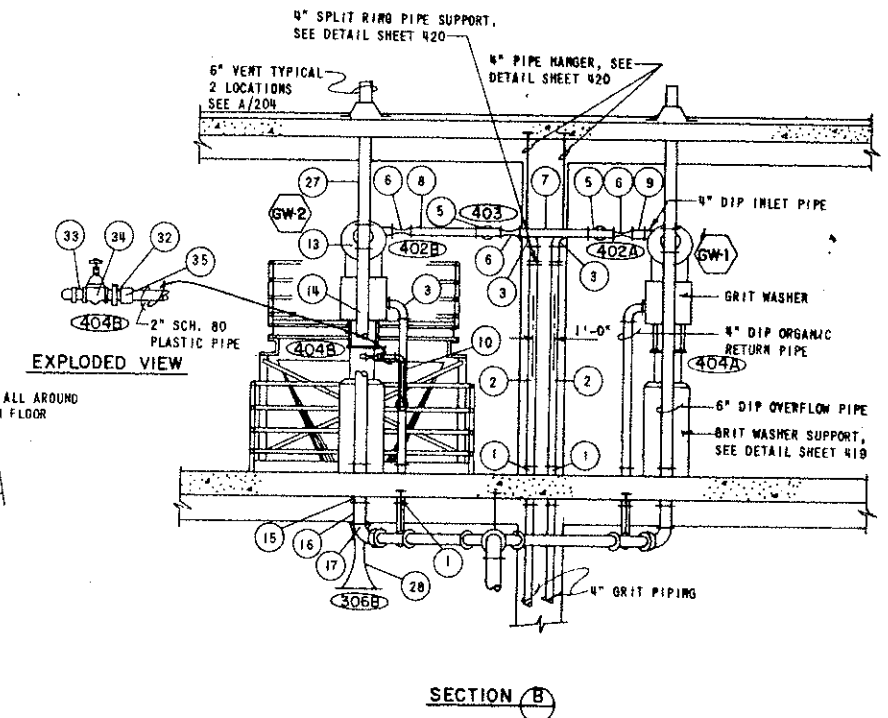
WICHITA, KANSAS		PLANT NO. 1 PUMPING STATION		GRIT BASIN FACILITY - INTERMEDIATE LEVEL PIPING		ENVIRONMENTAL	
DESIGN JGG		DRAW RAL		DATE: FEB. 1978		FILE NO. 75-1811	
SHELLEY-WILSON		ENGINEERS-ARCHITECTS-PLANNERS		SHEET NO. 418		OF 421	
REVISION		DATE		BY			
ADDED AIR CONNECTION		APR. 78		JGG			



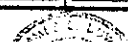
SECTION A-A

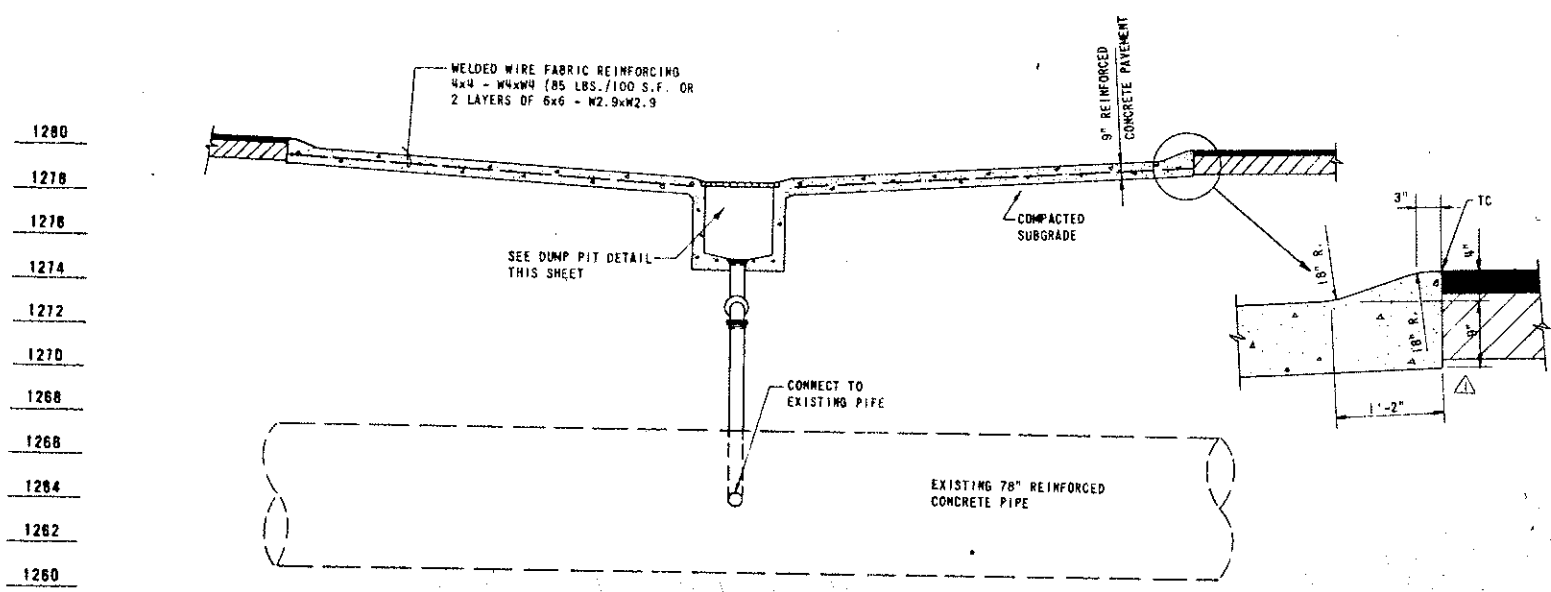
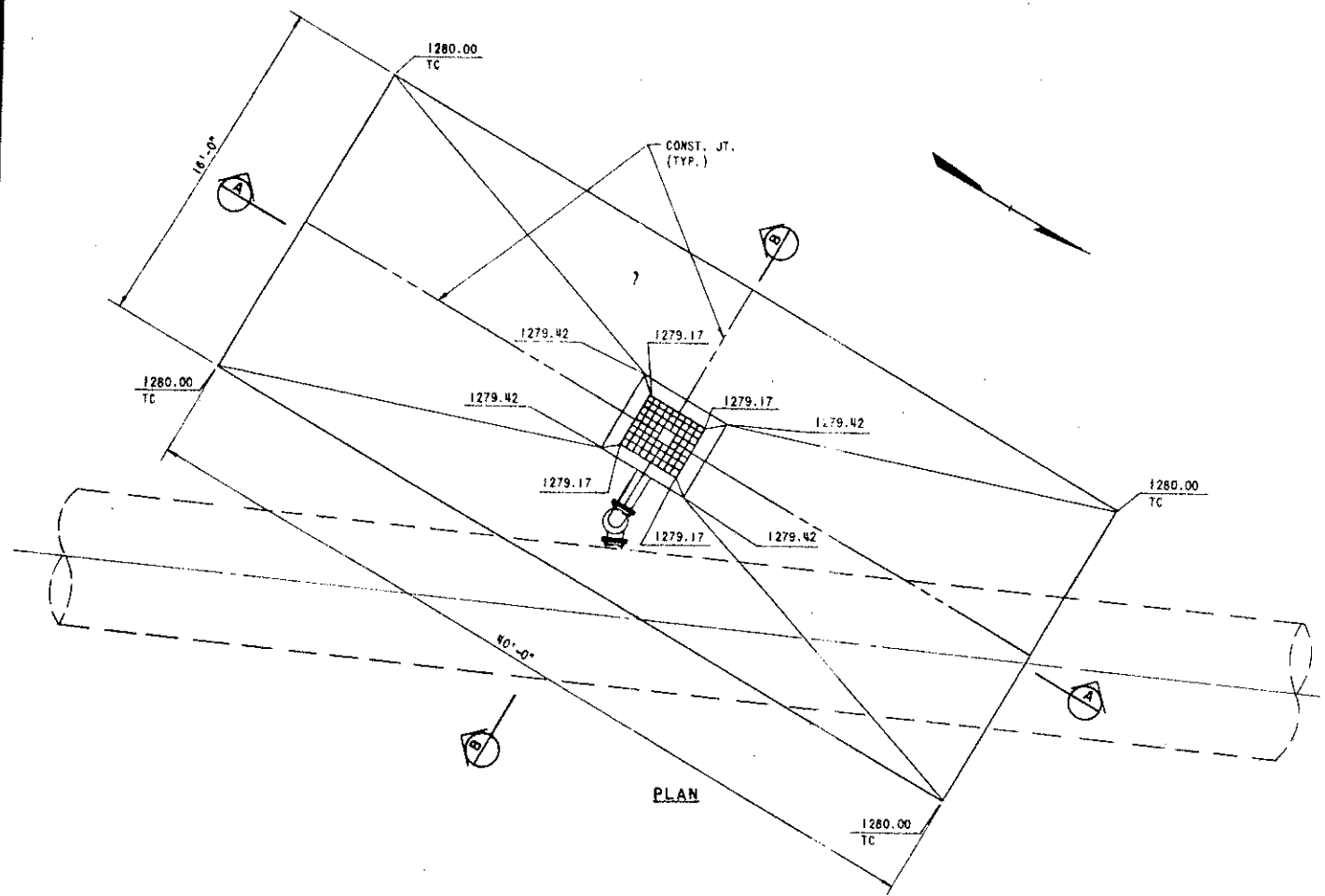
Diagram illustrating the cyclone separator and dewatering auger drive assembly, showing various components and structural details:

- GRIT WASHING AND DEMATERING AUGER DRIVE
- CYCLONE UNIT
- SUPPORT LEG
- SPLASH GUARD
- GRIT DISCHARGE
- GUARDRAIL OPENING
- LEVEL TRANSDUCER
- MINIMUM 12'-0" HEADROOM
- OPERATIONS LEVEL ELEV. 1282.00
- 6" DIP OVERFLOW PIPE
- 2" SCH. 80 PLASTIC PIPE DRAIN
- 8" PIPE HANGER, SEE DETAIL SHEET 420
- 4" PIPE HANGER, SEE DETAIL SHEET 420
- 0.40% SLOPE
- TIME LEVEL 1300.00

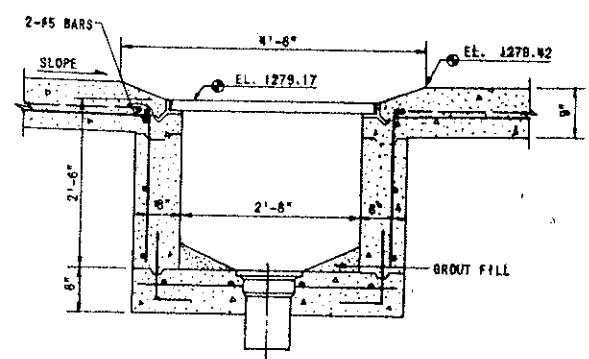
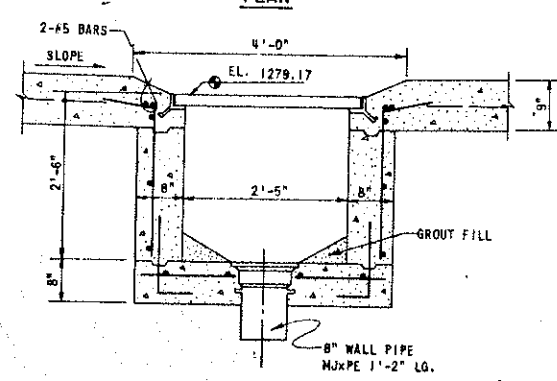
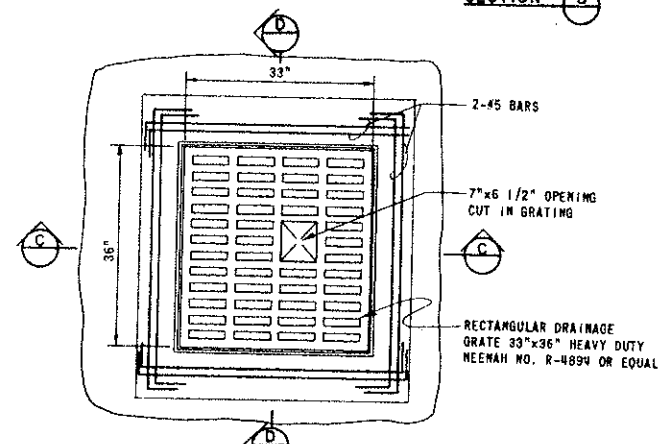
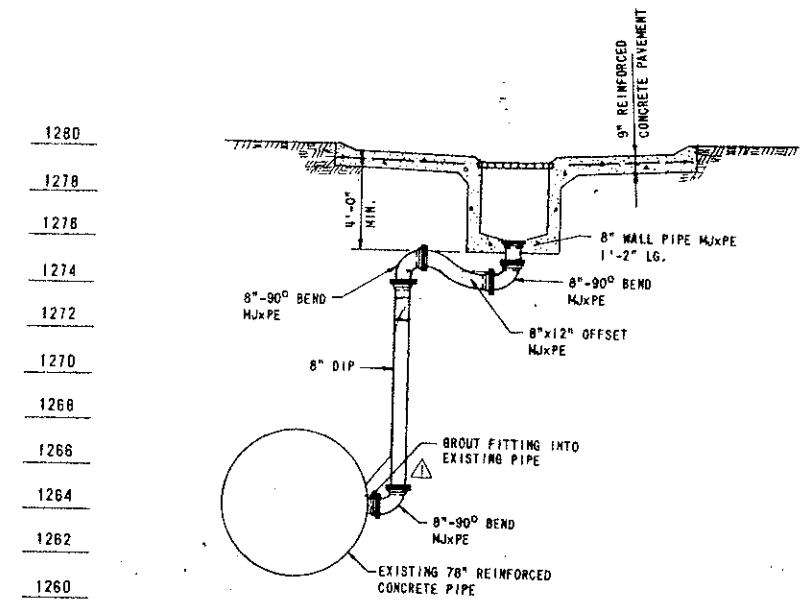


GRIT HOPPER
1/2" = 1'-0"
(2 REQ'D.)

	CHANGE GRITWASHER DESIGNATION	APR. 78	JGG	DESIGN BLK DRAWN AAD 	 SHELLEY-WILSON ENGINEERS-ARCHITECTS-PLANNERS	DATE:	FEB. 1978
						FILE NO.	75-101A
						SHEET NO. 411	
						OF 421	
	REVISION	DATE	BY				



SECTION A
SEPTIC TANK DUMP PIT
1/4" = 1'-0"



NOTE: ALL REINFORCING STEEL
#4 & 12" UNLESS OTHER-
WISE NOTED. LAP 12".

DUMP PIT DETAIL
3/4" = 1'-0"

DESIGN	DATE	BY	CHKD	DATE
JGS	APR. 78	JGG	RTW	
REVISION	DATE	BY	DATE	BY
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
SEPTIC TANK DUMP PIT DETAILS
ENVIRONMENTAL

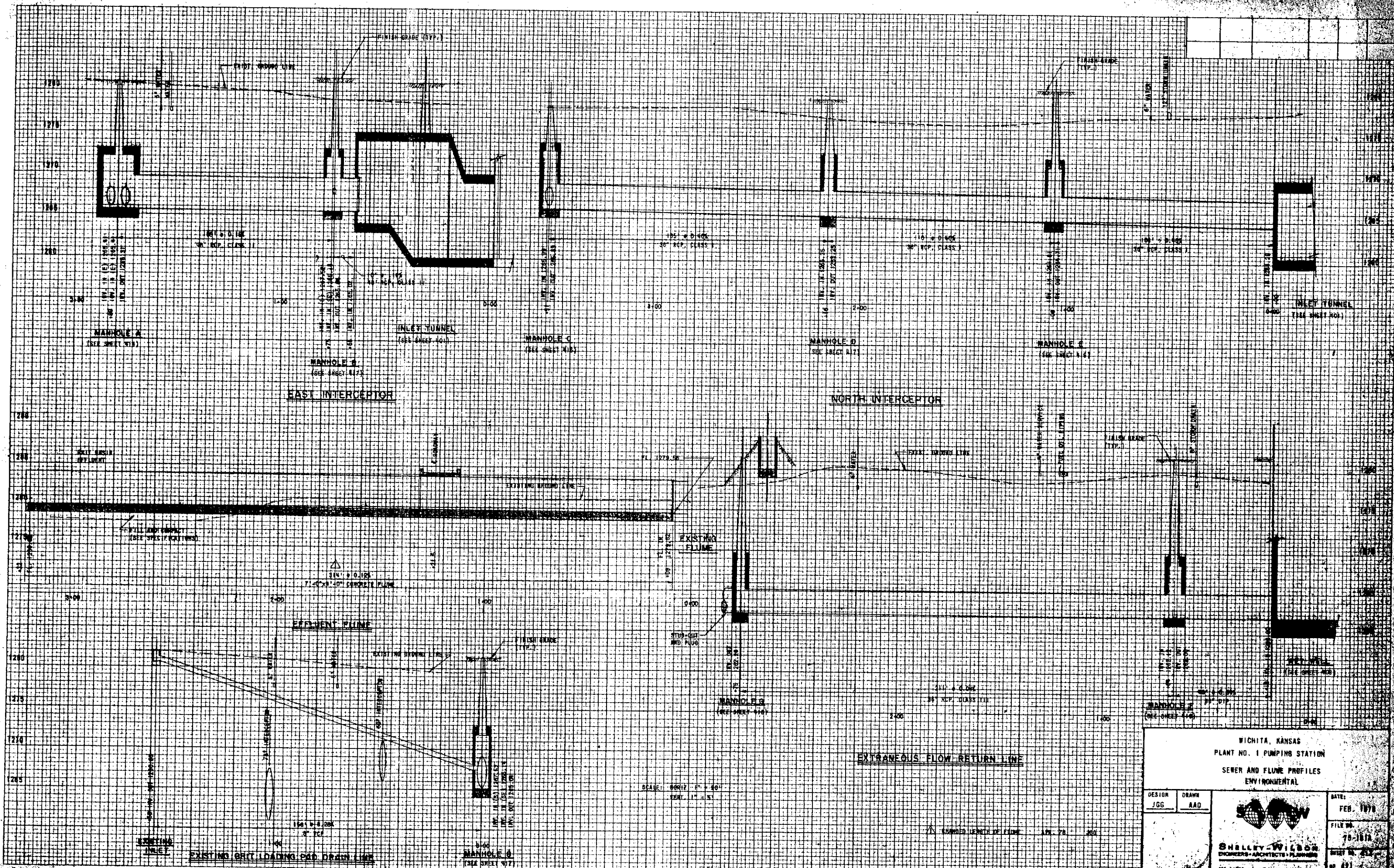
DATE: FEB. 1978

FILE NO. 15-1016

SHEET NO. 412 OF 421

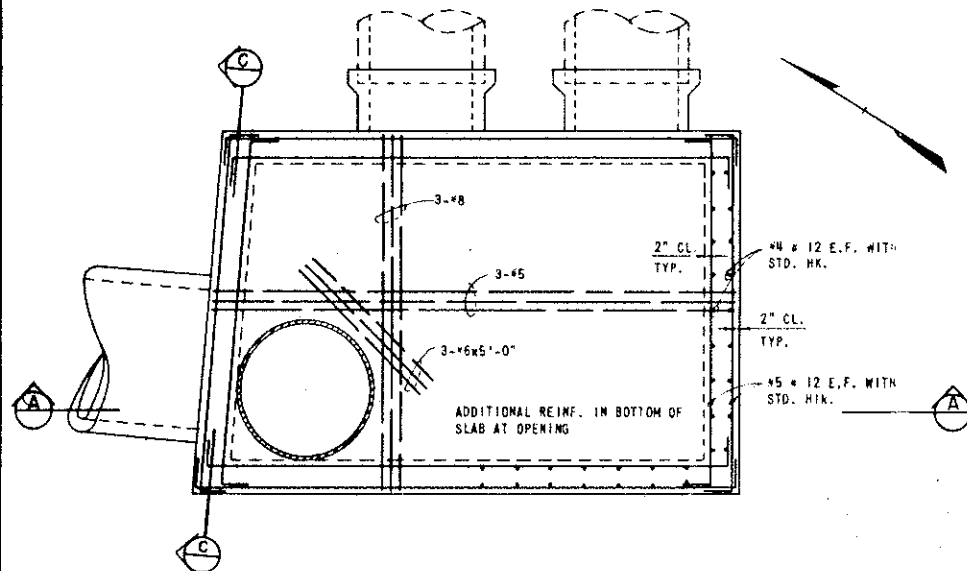
JAMES E. DOHLE
LICENSED
7947
KANSAS
PROFESSIONAL ENGINEER

SHERRY-WILSON
ENGINEERS-ARCHITECTS-PLANNERS

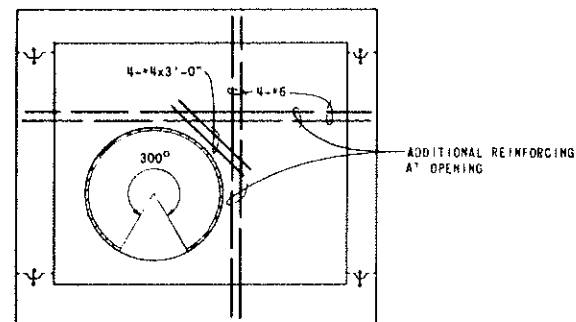


WICHITA, KANSAS PLANT NO. 1 PUMPING STATION SEWER AND FLUME PROFILES ENVIRONMENTAL	
DESIGN JGG	DRAWN AAD
DATE: FEB. 1979 FILE NO. 78-1818 SHEET NO. 421	

SHALLEY & WILSON
 ENGINEERS-ARCHITECTS-PLANNERS
 200 S. 10th St., Suite 100, Wichita, Kansas 67202

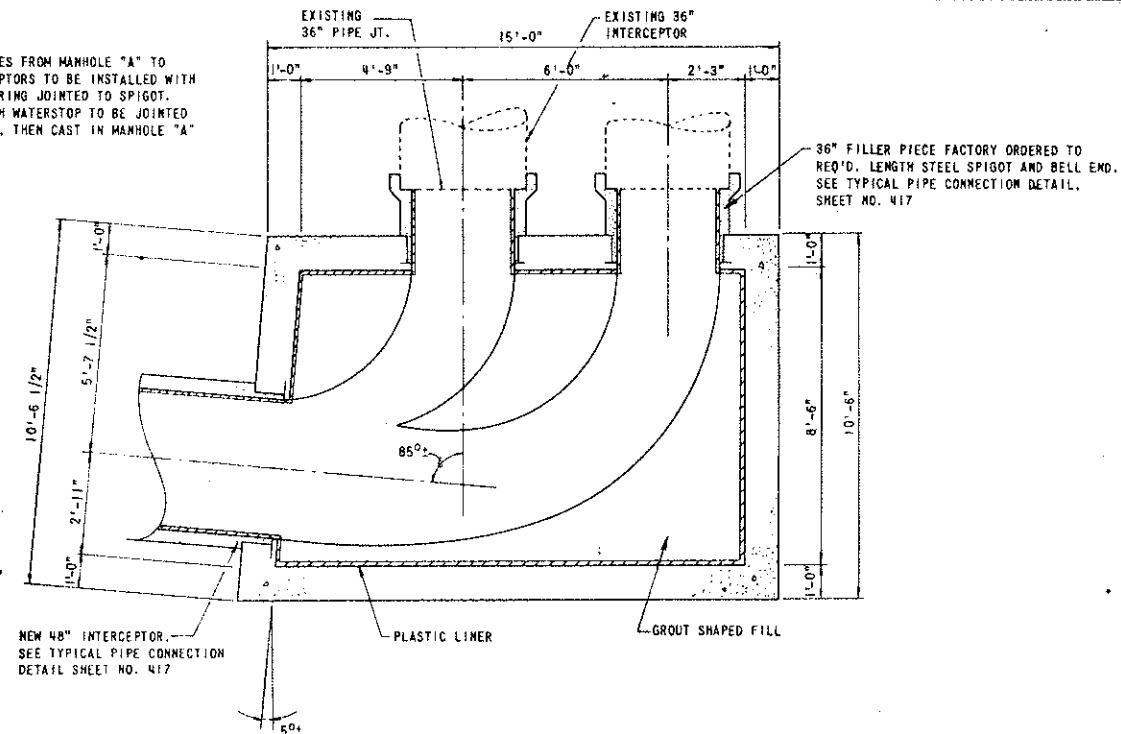


PLAN

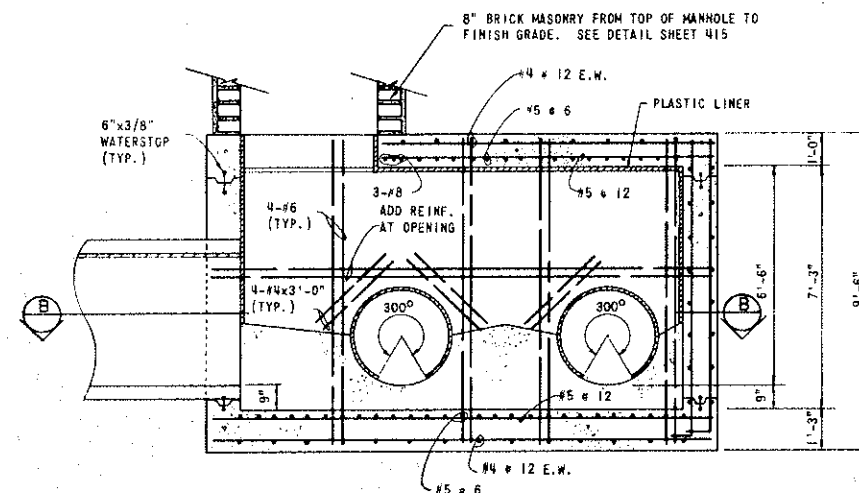


SECTION C

NOTE:
PIPE FILLER PIECES FROM MANHOLE "A" TO EXISTING INTERCEPTORS TO BE INSTALLED WITH STEEL WATERSTOP RING JOINTED TO SPIGOT. FILLER PIECE WITH WATERSTOP TO BE JOINTED TO EXISTING PIPE, THEN CAST IN MANHOLE "A" WALL.



SECTION B

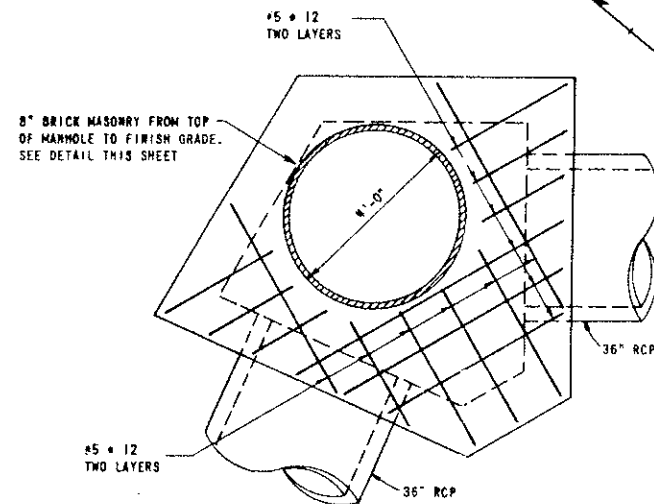


SECTION A

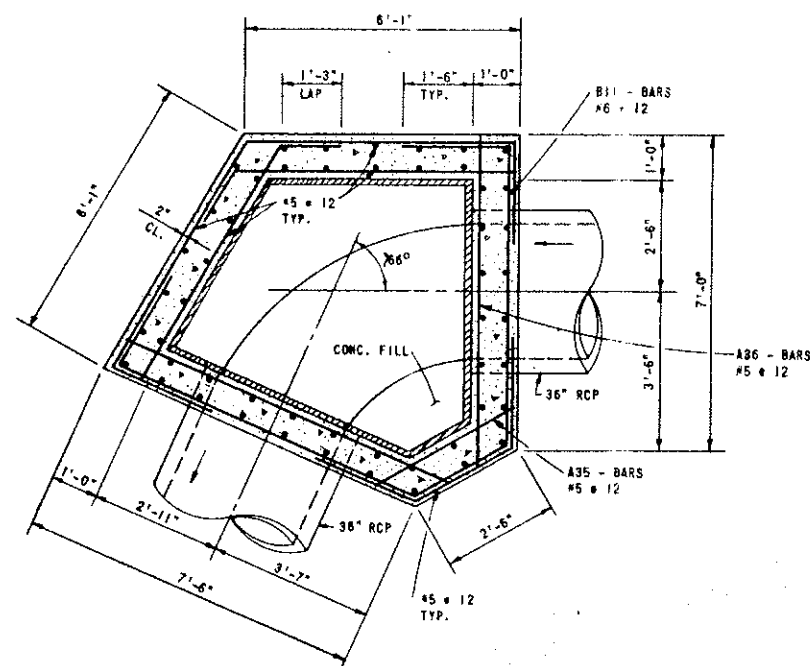
MANHOLE A
3/8" = 1'-0"

- NOTES:
1. INSIDE OF CONCRETE MANHOLE TO BE PLASTIC LINED, AS INDICATED.
 2. ALL RCP CONNECTIONS TO CONCRETE MANHOLE SHALL BE MADE WITH A STEEL BELL RING FITTING. SEE DETAIL SHEET 417.
 3. MANHOLE RISER AND CONE SECTION SHALL BE OF BRICK. SEE DETAIL SHEET 415.

WICHITA, KANSAS PLANT NO. 1 PUMPING STATION MANHOLE A ENVIRONMENTAL			
DESIGN KJS	DRWN DFP	DATE FEB. 1978	FILE NO. 75-181A
SHELLY-WILSON ENGINEERS-ARCHITECTS-PLANNERS 2001 LAWRENCE - WICHITA, KANSAS, 67211		SHEET NO. 414 OF 423	
REVISION	DATE	BY	



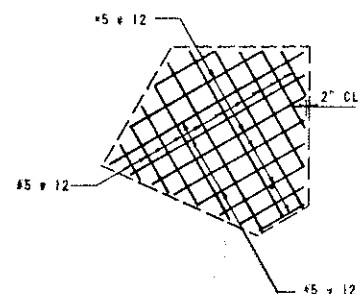
PLAN



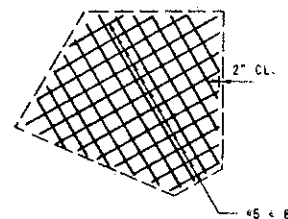
SECTION

MANHOLE E

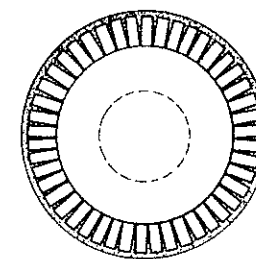
1/2" = 1'-0"



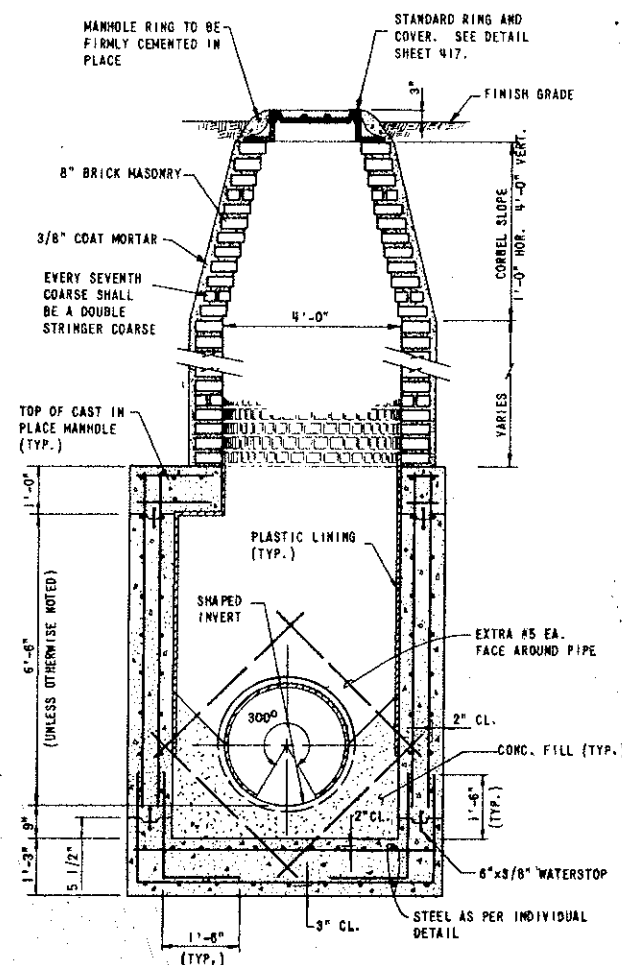
BOTTOM MAT - BOTTOM SLAB



TOP MAT - BOTTOM SLAB



PLAN



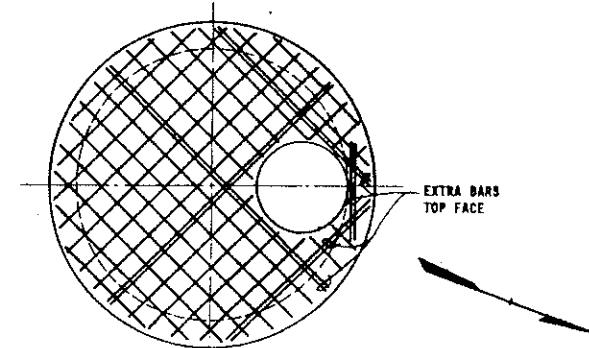
SECTION

TYPICAL MANHOLE AND BRICK RISER

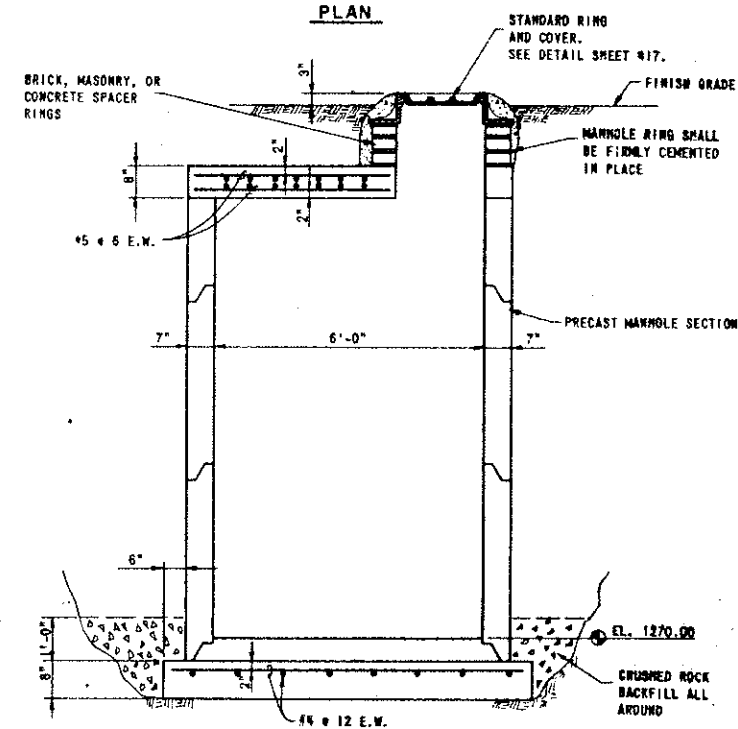
1/2" = 1'-0"

NOTES:

1. BRICK FOR MANHOLES SHALL MEET REQUIREMENTS OF ASTM C32-73, GRADE MS.
2. MORTAR SHALL MEET REQUIREMENTS OF ASTM C270, TYPE M.



PLAN



ELEVATION

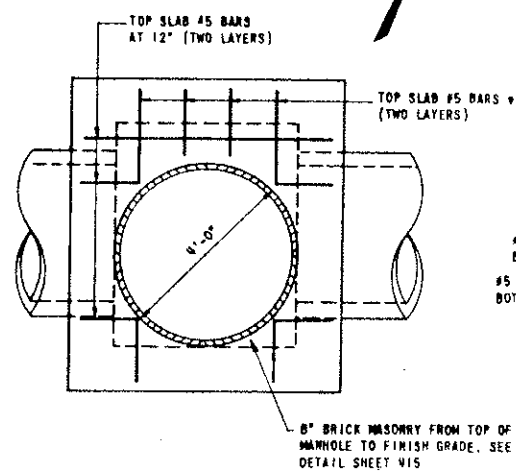
MANHOLE H

1/2" = 1'-0"

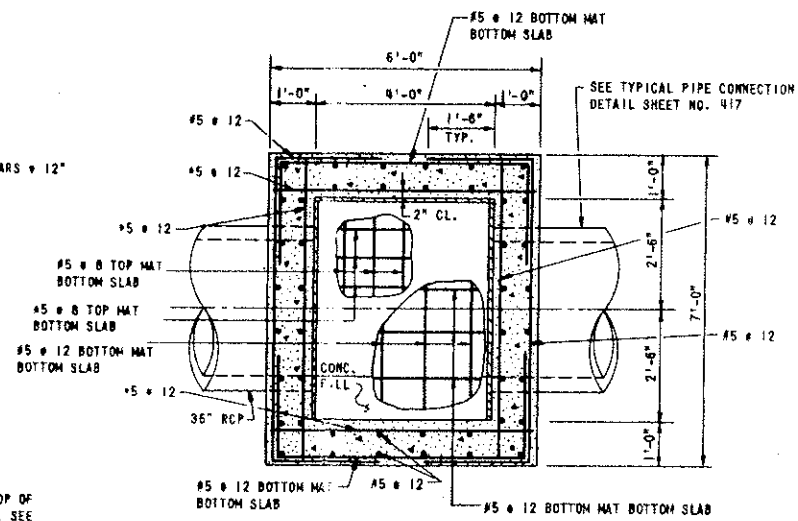
NOTES:

1. INSIDE OF CONCRETE MANHOLE TO BE PLASTIC LINED, AS INDICATED.
2. ALL RCP CONNECTIONS TO CONCRETE MANHOLE SHALL BE MADE WITH A STEEL BELL RING FITTING. SEE DETAIL SHEET #17.
3. MANHOLE RISERS AND CONE SECTION SHALL BE OF BRICK. SEE DETAIL THIS SHEET.

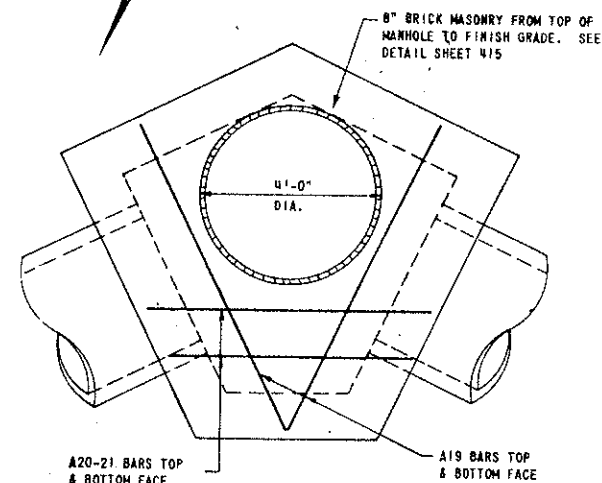
WICHITA, KANSAS		DESIGN	DATE
PLANT NO. 1 PUMPING STATION		JOB	FEB 1978
MANHOLE DETAILS		DRAWN	FILE NO.
ENVIRONMENTAL		RLK	79-101A
SHELLEY-WILSON		ENGINEERS-ARCHITECTS-PLANNERS	SHEET NO. 11
7540		DATE	OF 11



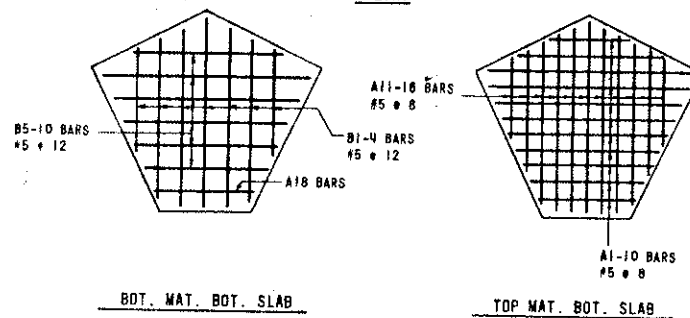
PLAN



SECTION

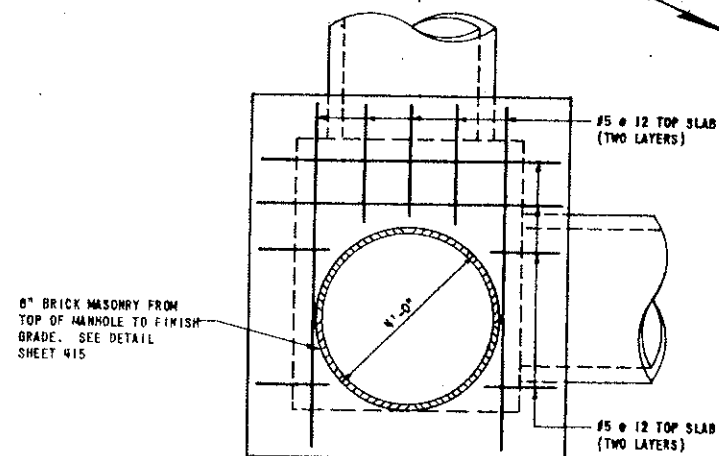


PLAN

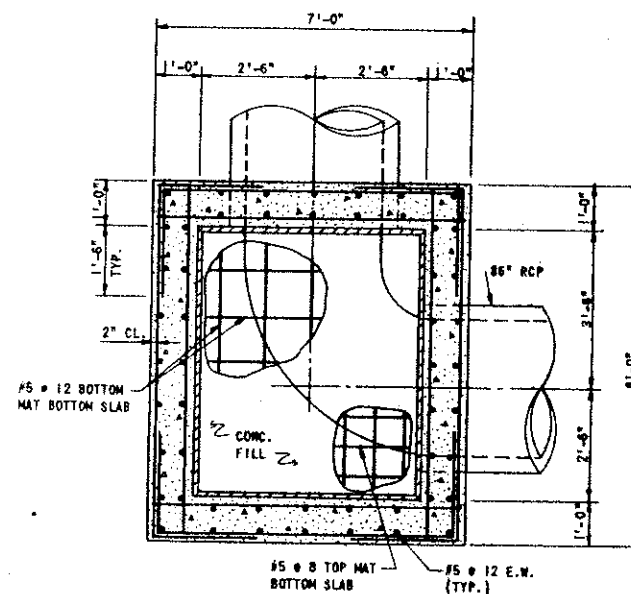


BOT. MAT. BOT. SLAB

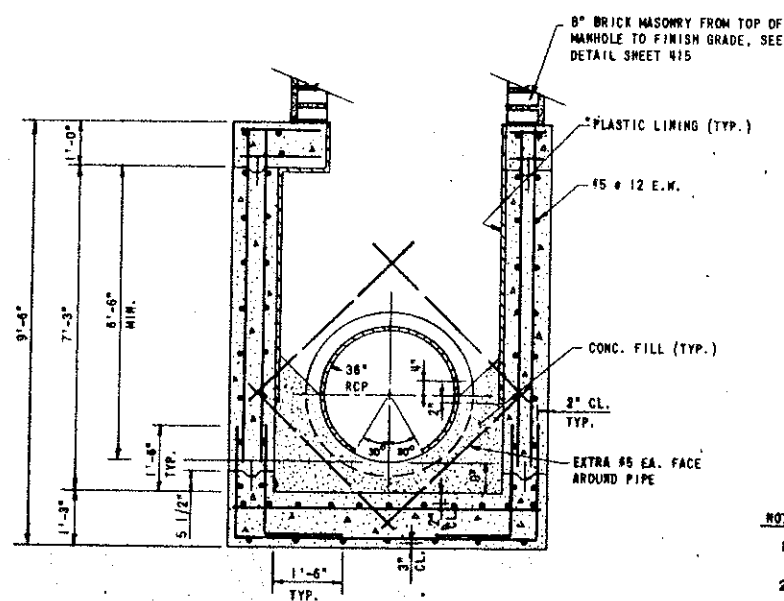
TOP MAT. BOT. SLAB



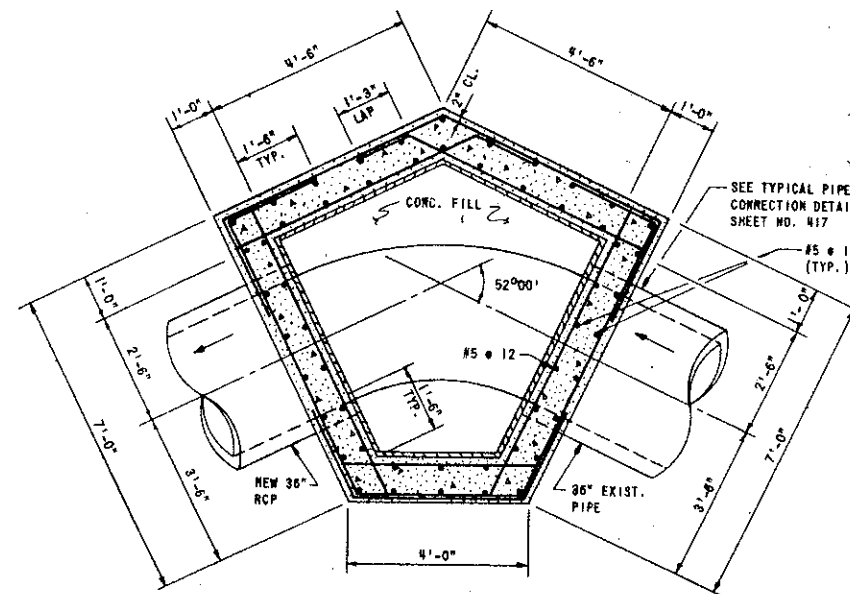
PLAN



SECTION
MANHOLE F
1/2" = 1'-0"



SECTION
MANHOLE G
1/2" = 1'-0"



SECTION
MANHOLE C
1/2" = 1'-0"

- NOTES:
1. INSIDE OF ALL CONCRETE MANHOLES TO BE PLASTIC LINED, AS INDICATED.
 2. ALL NEW RCP CONNECTIONS TO CONCRETE MANHOLES SHALL BE MADE WITH A STEEL BELL RING FITTING. SEE DETAIL SHEET 417.
 3. MANHOLE RISERS AND CONE SECTION SHALL BE OF BRICK. SEE DETAIL SHEET 415.

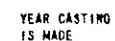
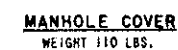
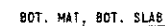
REVISION	DATE	BY

WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
MANHOLE DETAILS
ENVIRONMENTAL

DESIGNER: JGG
DRAWN: RTW

DATE: FEB 1978
FILE NO: 78-1813
SHEET NO. 418 OF 421

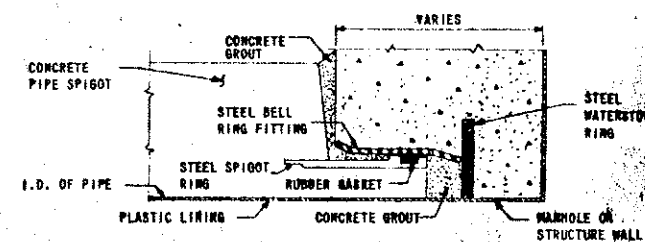
SHIRLEY-WILSON
ENGINEERS-ARCHITECTS-PLANNERS



NOTE:
OUTSIDE CIRCUMFERENCE OF COVER AND THE INNER FACE
AND SEAT OF RING TO BE MACHINE FIT.

WICHITA STANDARD MANHOLE RING AND COVER

NOT TO SCALE



TYPICAL PIPE CONNECTION DETAIL

NOT TO SCALE

WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
MANHOLE DETAILS
ENVIRONMENTAL

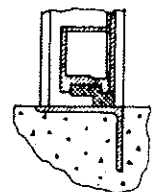


SHELLEY-WILSON
ENGINEERS-ARCHITECTS-PLANNERS

DATE: FEB. 1970
FILE NO. 75-101A
SHEET NO. 47
OF 421

- NOTES:**
1. INSIDE OF ALL CONCRETE MANHOLES TO BE PLASTIC LINED, AS INDICATED.
 2. ALL RCP CONNECTIONS TO CONCRETE MANHOLES SHALL BE MADE WITH A STEEL BELL RING FITTING. SEE DETAIL THIS SHEET.
 3. MANHOLE RISERS AND COME SECTION SHALL BE OF BRICK. SEE DETAIL SHEET Q15.

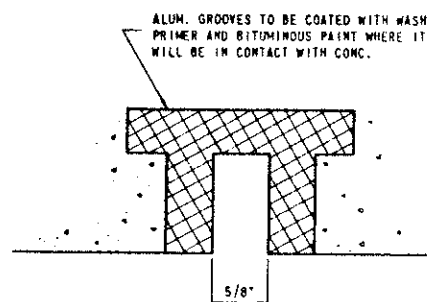
WALL GUIDE



FLOOR GUIDE

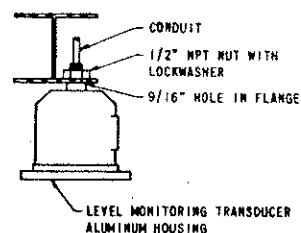
ALUM. STOP GATE FRAME

NOT TO SCALE



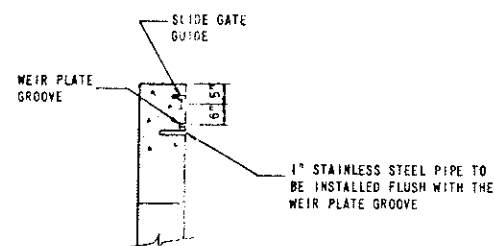
WEIR PLATE GROOVES

FULL SCALE

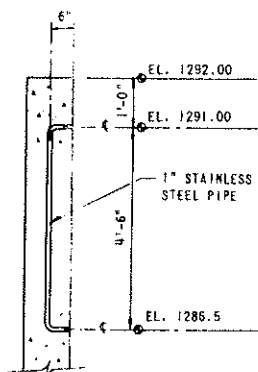


TRANSDUCER - BEAM MOUNTING

NOT TO SCALE
(1 RED'D.)

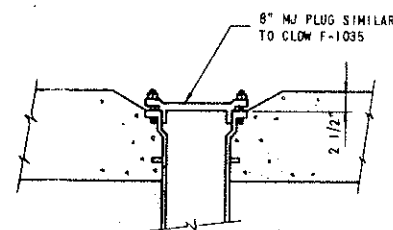


PLAN

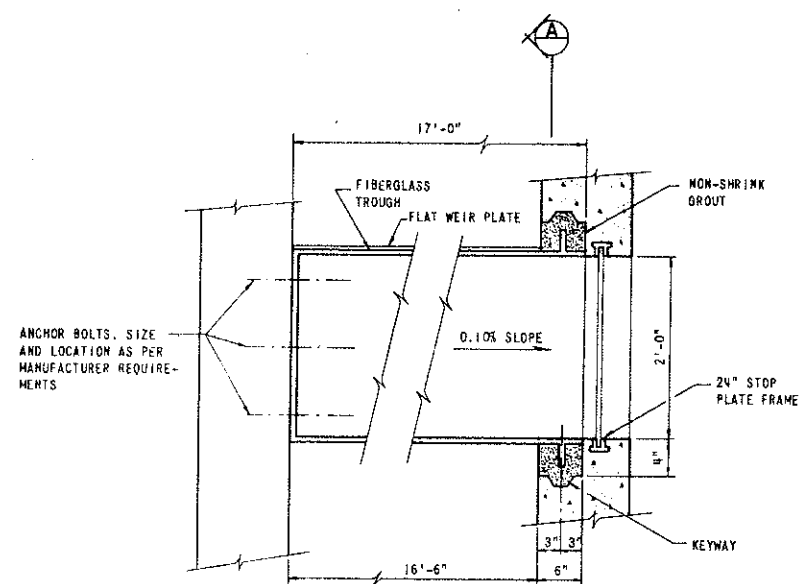


ELEVATION

WEIR VENT

$$1/i^* = 1^* - 1$$


CLEANOUT DETAIL

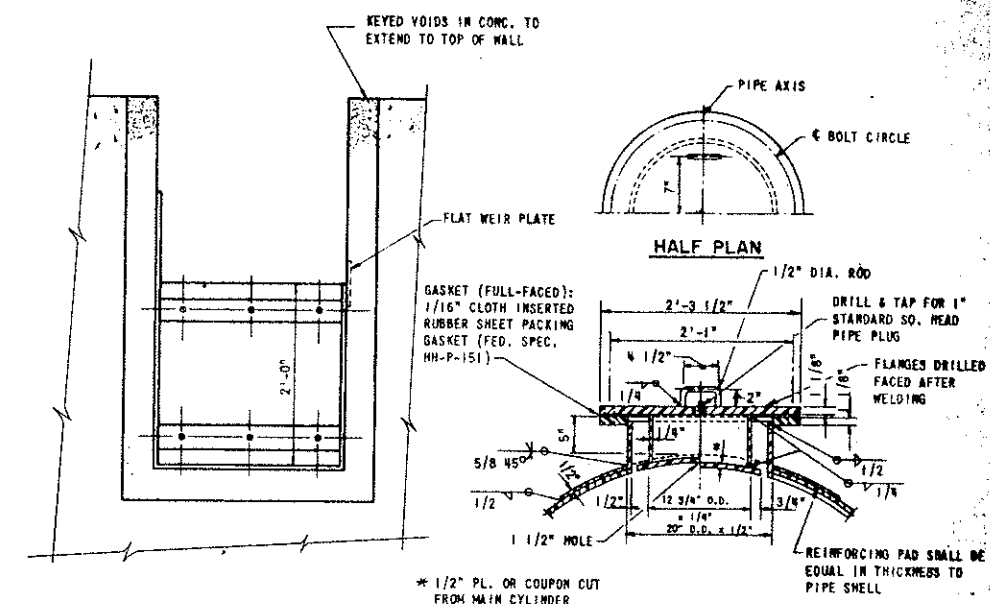
$$|^\alpha = |' + 0^\alpha$$


PLAN

INBOARD EFFLUENT TROUGH

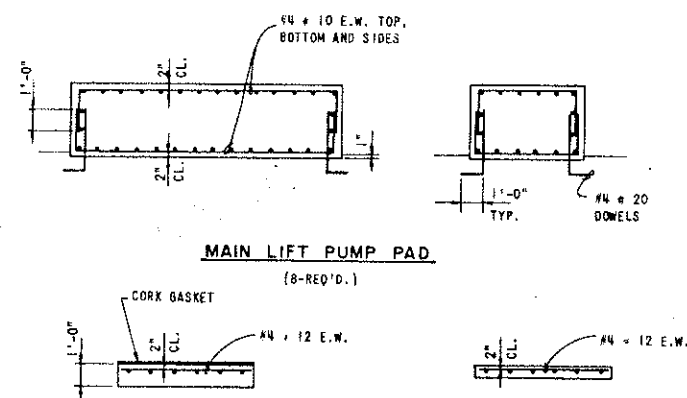
1" = 1'-0"

(4 REQ'D.)



SECTION A

SECTION 
HEADER MANHOLE



MAIN LIFT PUMP PAD

(8-REQ'D.)

BLOWER PAD

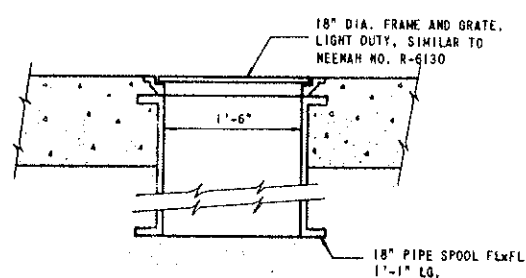
(2-REQ'D.)

GRIT PUMP PAD

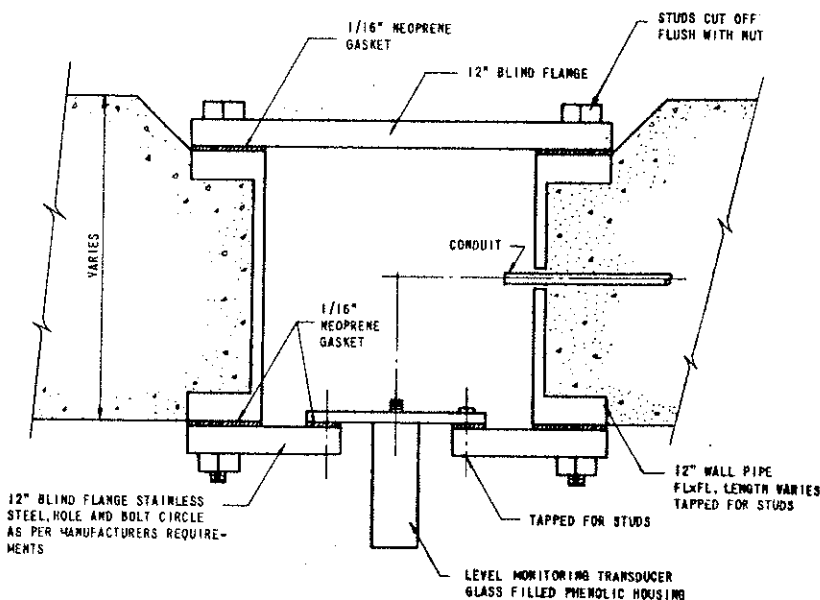
(4-RFD'D.)

NOTE: LENGTH AND WIDTH OF PADS TO BE 1'-0" LARGER THAN SKID PROVIDED WITH EQUIPMENT. (6" CL. ALL AROUND) HEIGHT OF PAD AS REQ'D. TO MATCH INTAKE WITH ELEV. SHOWN ON DRAWINGS. SIZE AND LOCATION OF ANCHOR BOLTS AS PER MANUFACTURERS REQUIREMENTS.

EQUIPMENT MOUNTING PADS

$$1/4'' = 1'-0''$$


18" FLOOR DRAIN

$$1^{\text{st}} = 1^{\text{st}} - 0^{\text{th}}$$


TRANSDUCER-FLOOR MOUNTING

NOT TO SCALE
(4 REQ'D.)

WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
MISCELLANEOUS DETAILS
ENVIRONMENTAL

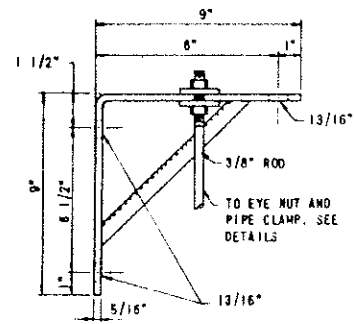


SHELLEY-WILSON
ENGINEERS • ARCHITECTS • PLANNERS

DATE:	FEB. 1976
FILE NO.	75-161A
SHEET NO.	418

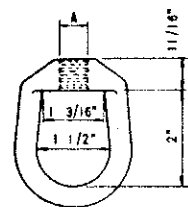
	ADDED HEADER MANHOLE DETAIL.	APR. 78	JGG	DESIGN	JGG	DRAW	DFF		DATE:	FEB. 1978
	ADDED TRANSDUCER DETAIL								FILE NO.	75-181A
	REVISION	DATE	BY				SHELLEY-WILSON ENGINEERS-ARCHITECTS-PLANNERS 1000 LAUREL A. - SUITE 100 - GARDEN CITY, KANSAS 66503	SHEET NO. 418		
								OF 421		

 ADD 3" GATE VALVE	APR. 78	JGG	DESIGN	DRAWN	 SHELLEY-WILSON ENGINEERS • ARCHITECTS • PLANNERS 410 SOUTH • SUITE 100 • DENVER, COLORADO • 80202	DATE:
			JGG	DFP		FEB. 1978
						FILE NO.
						75-1074
						SHEET NO. 450
REVISION	DATE	BY			SHEET NO. 450	
					OF 42	



4" PIPE BRACKET

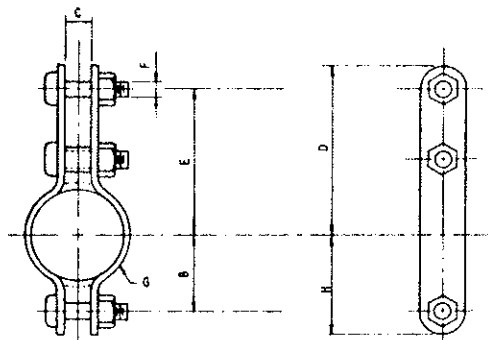
3" = 1'-0"
IN COMPLIANCE WITH FEDERAL SPECIFICATIONS
WM-H-171-D TYPE 32
SEE GENERAL NOTE 3



"A" DIMENSION
3/8" FOR 4" PIPE BRACKET
3/8" FOR 6" PIPE HANGER
5/8" FOR 8" PIPE HANGER
3/4" FOR 10" PIPE HANGER

WELDLESS EYE NUT

NOT TO SCALE
IN COMPLIANCE WITH FEDERAL SPECIFICATION
WM-H-171-D TYPE 17, SEE GENERAL NOTES 2 AND 3

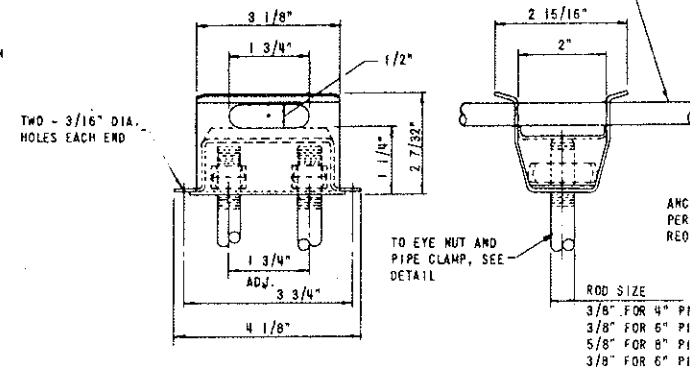


NOTE: FINISH TO BE GALVANIZED.

PIPE SIZE	B	C	D	E	F	G	H
4	3 8/8	1 1/16	7 5/8	6 1/2	3/4	5/16x2	4 1/2
6	4 3/4	1 7/16	8 15/16	8 9/16	7/8	3/8x2 1/2	6 1/8
8	5 3/4	1 7/16	10 15/16	9 9/16	7/8	3/8x2 1/2	7 1/8
10	11 1/16	2	16 5/16	14 11/16	1 1/4	5/8x3	12 11/16

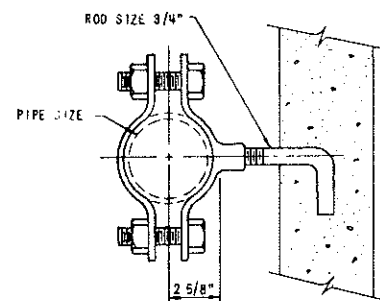
STEEL PIPE CLAMPS

NOT TO SCALE
IN COMPLIANCE WITH FEDERAL SPECIFICATION
WM-H-171-D TYPE 3, SEE GENERAL NOTES 2 AND 3



CONCRETE INSERT-WEDGE TYPE

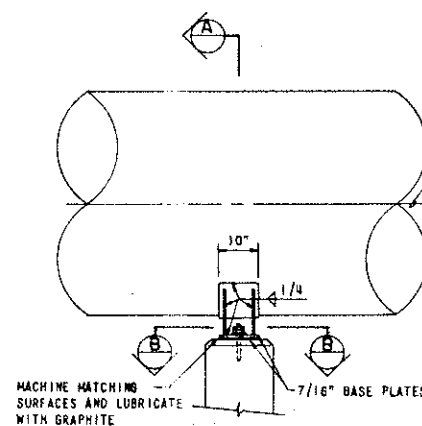
NOT TO SCALE
IN COMPLIANCE WITH FEDERAL SPECIFICATION
WM-H-171-D TYPE 19, SEE GENERAL NOTE 2



NOTE: FINISH TO BE GALVANIZED.

4" SPLIT RING RISER SUPPORT

NOT TO SCALE
IN COMPLIANCE WITH FEDERAL SPECIFICATION WM-H-171-D

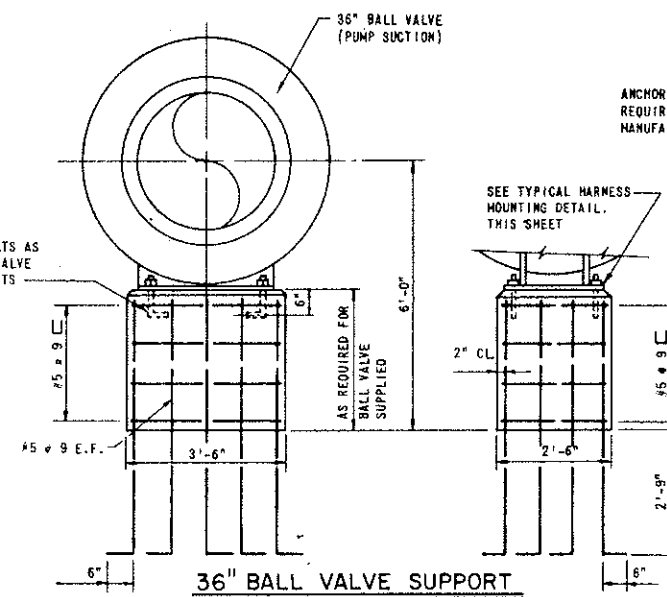


HARNES MOUNTING NOTES:
1. ALL ITEMS ARE MEY.
2. ALL PLATES ARE MINIMUM 3/8" THICK UNLESS OTHERWISE NOTED.
3. LOWER NUT TO BE HAND TIGHT.

SECTION A

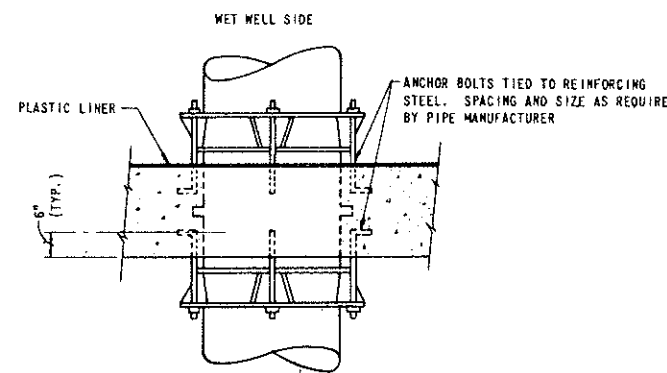
TYPICAL HARNES MOUNTING DETAIL

NOT TO SCALE



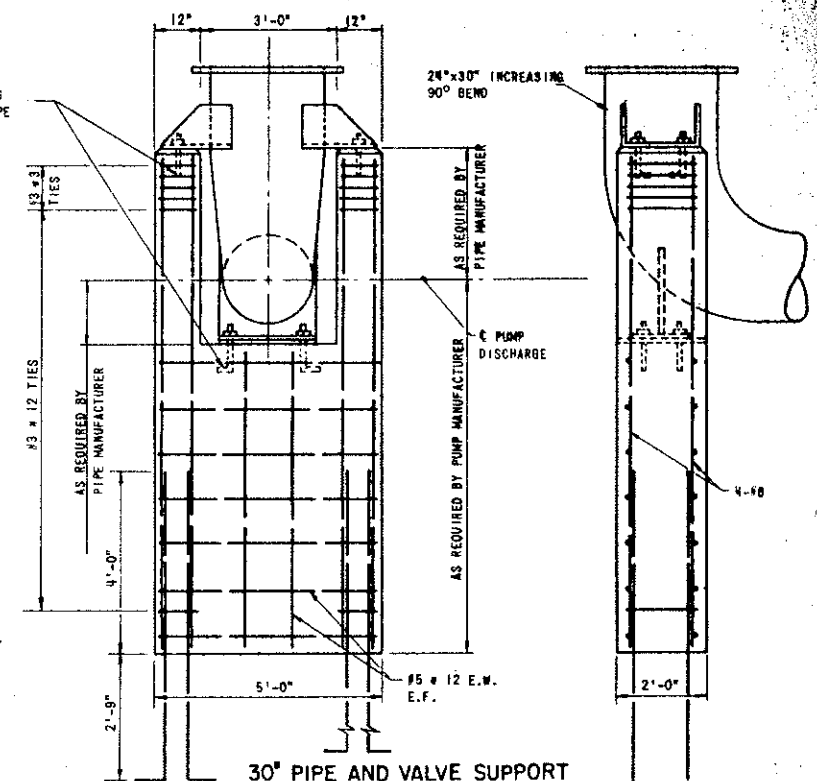
36" BALL VALVE SUPPORT

1/2" = 1'-0"



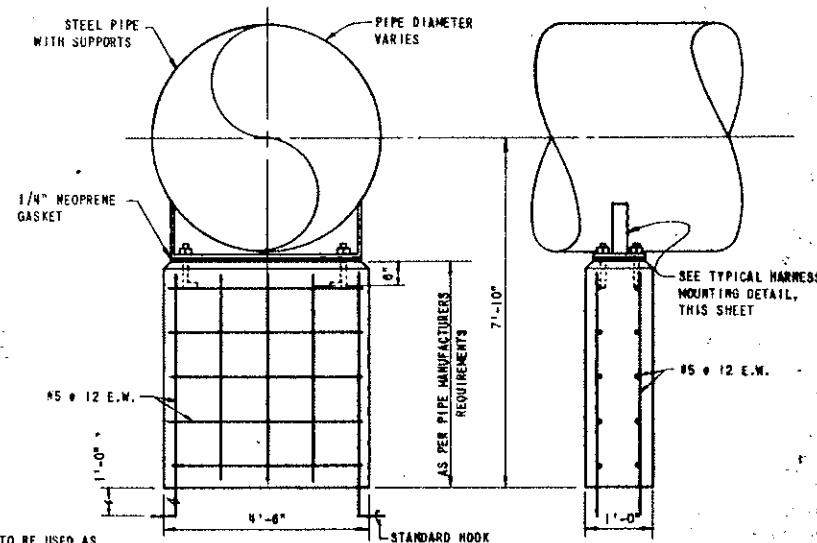
36" PIPE HARNES-WALL ANCHORED

1/2" = 1'-0"



30" PIPE AND VALVE SUPPORT

1/2" = 1'-0"



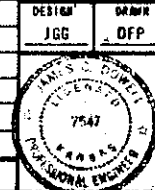
PIPE SUPPORT-DISCHARGE HEADER

NOT TO SCALE

GENERAL NOTES:

1. ROD COUPLINGS TO BE USED AS REQUIRED AND SHALL BE CADMIUM PLATED.
2. PIPE HANGERS CONSIST OF "STEEL PIPE CLAMPS", "WELDERS EYE NUT", AND "CONCRETE INSERT-WEDGE TYPE", OF THE APPROPRIATE SIZE.
3. PIPE SUPPORT BRACKET CONSISTS OF "STEEL PIPE CLAMPS", "WELDLESS EYE NUT", AND "PIPE BRACKET" OF THE APPROPRIATE SIZE.

WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION/
MISCELLANEOUS DETAILS
ENVIRONMENTAL



DESIGN JGG
DRAW DFP
DATE FEB. 1978
FILE NO. 75-181A
SHEET NO. 428
OF 421

VALVE AND GATE SCHEDULE

VALVE OR GATE NO.	SIZE	TYPE	SERVICE	OPERATOR	VALVE OR GATE NO.	SIZE	TYPE	SERVICE	OPERATOR
301A	72"x106"	SLUICE GATE	HEADWORKS INFLUENT	ELECTRIC W/MANUAL HANDWHEEL	207A	6"	BLAST GATES	BLOWER INTAKE	MANUAL HANDWHEEL
301B	72"x106"	SLUICE GATE	HEADWORKS INFLUENT	ELECTRIC W/MANUAL HANDWHEEL	207B	6"	BLAST GATES	BLOWER INTAKE	MANUAL HANDWHEEL
101A	36"	BALL VALVE	WASTEWATER PUMP SUCTION	MANUAL HANDWHEEL	208A	6"	CHECK VALVE	BLOWER DISCHARGE	
101B	36"	BALL VALVE	WASTEWATER PUMP SUCTION	MANUAL HANDWHEEL	208B	6"	CHECK VALVE	BLOWER DISCHARGE	
102A	36"	BALL VALVE	WASTEWATER PUMP SUCTION	MANUAL HANDWHEEL	209A	6"	BUTTERFLY VALVE	BLOWER DISCHARGE	HAND LEVER
102B	36"	BALL VALVE	WASTEWATER PUMP SUCTION	MANUAL HANDWHEEL	209B	6"	BUTTERFLY VALVE	BLOWER DISCHARGE	HAND LEVER
103A	36"	BALL VALVE	WASTEWATER PUMP SUCTION	MANUAL HANDWHEEL	307A	2 1/2"	PLUG VALVE	AIR HEADER CONTROL	HAND LEVER W/LOCKING NUT & INDICATOR
103B	36"	BALL VALVE	WASTEWATER PUMP SUCTION	MANUAL HANDWHEEL	307B	2 1/2"	PLUG VALVE	AIR HEADER CONTROL	HAND LEVER W/LOCKING NUT & INDICATOR
104A	36"	BALL VALVE	WASTEWATER PUMP SUCTION	MANUAL HANDWHEEL	308A	2 1/2"	PLUG VALVE	AIR HEADER CONTROL	HAND LEVER W/LOCKING NUT & INDICATOR
104B	36"	BALL VALVE	WASTEWATER PUMP SUCTION	MANUAL HANDWHEEL	308B	2 1/2"	PLUG VALVE	AIR HEADER CONTROL	HAND LEVER W/LOCKING NUT & INDICATOR
105A	30"	BALL VALVE	WASTEWATER PUMP CONTROL	ELECTRIC W/MANUAL CHAINWHEEL	309A	2 1/2"	PLUG VALVE	AIR HEADER CONTROL	HAND LEVER W/LOCKING NUT & INDICATOR
105B	30"	BALL VALVE	WASTEWATER PUMP CONTROL	ELECTRIC W/MANUAL CHAINWHEEL	309B	2 1/2"	PLUG VALVE	AIR HEADER CONTROL	HAND LEVER W/LOCKING NUT & INDICATOR
106A & 106B	30"	BALL VALVE	WASTEWATER PUMP CONTROL	ELECTRIC W/MANUAL CHAINWHEEL	310A	2 1/2"	PLUG VALVE	AIR HEADER CONTROL	HAND LEVER W/LOCKING NUT & INDICATOR
107A	30"	BALL VALVE	WASTEWATER PUMP CONTROL	ELECTRIC W/MANUAL CHAINWHEEL	310B	2 1/2"	PLUG VALVE	AIR HEADER CONTROL	HAND LEVER W/LOCKING NUT & INDICATOR
107B	30"	BALL VALVE	WASTEWATER PUMP CONTROL	ELECTRIC W/MANUAL CHAINWHEEL	311A	2 1/2"	PLUG VALVE	AIR HEADER CONTROL	HAND LEVER W/LOCKING NUT & INDICATOR
108A	30"	BALL VALVE	WASTEWATER PUMP CONTROL	ELECTRIC W/MANUAL CHAINWHEEL	311B	2 1/2"	PLUG VALVE	AIR HEADER CONTROL	HAND LEVER W/LOCKING NUT & INDICATOR
108B	30"	BALL VALVE	WASTEWATER PUMP CONTROL	ELECTRIC W/MANUAL CHAINWHEEL	312A	2 1/2"	PLUG VALVE	AIR HEADER CONTROL	HAND LEVER W/LOCKING NUT & INDICATOR
302A	8"x7"	SLIDE GATE	GRIT BASIN INFLUENT FLUME	SIDE MOUNTED HANDWHEEL	312B	2 1/2"	PLUG VALVE	AIR HEADER CONTROL	HAND LEVER W/LOCKING NUT & INDICATOR
302B	8"x7"	SLIDE GATE	GRIT BASIN INFLUENT FLUME	SIDE MOUNTED HANDWHEEL	215	6"	BUTTERFLY VALVE	BLOWER CROSSOVER	HAND LEVER
303A	8"x7"	SLIDE GATE	GRIT BASIN INFLUENT FLUME	SIDE MOUNTED HANDWHEEL					
303B	8"x7"	SLIDE GATE	GRIT BASIN INFLUENT FLUME	SIDE MOUNTED HANDWHEEL					
304A	2'-2"x8'-1"	STOP PLATE	INBOARD EFFLUENT TROUGH						
304B	2'-2"x8'-1"	STOP PLATE	INBOARD EFFLUENT TROUGH						
305A	2'-2"x8'-1"	STOP PLATE	INBOARD EFFLUENT TROUGH						
305B	2'-2"x8'-1"	STOP PLATE	INBOARD EFFLUENT TROUGH						
201A	4"	PINCH VALVE	GRIT PUMP SUCTION	MANUAL HANDWHEEL					
201B	4"	PINCH VALVE	GRIT PUMP SUCTION	MANUAL HANDWHEEL					
202A	4"	PINCH VALVE	GRIT PUMP SUCTION	MANUAL HANDWHEEL					
202B	4"	PINCH VALVE	GRIT PUMP SUCTION	MANUAL HANDWHEEL					
203A	4"	CHECK VALVE	GRIT PUMP DISCHARGE						
203B	4"	CHECK VALVE	GRIT PUMP DISCHARGE						
204A	4"	CHECK VALVE	GRIT PUMP DISCHARGE						
204B	4"	CHECK VALVE	GRIT PUMP DISCHARGE						
205A	4"	PINCH VALVE	GRIT PUMP DISCHARGE	MANUAL HANDWHEEL					
205B	4"	PINCH VALVE	GRIT PUMP DISCHARGE	MANUAL HANDWHEEL					
206A	4"	PINCH VALVE	GRIT PUMP DISCHARGE	MANUAL HANDWHEEL					
206B	4"	PINCH VALVE	GRIT PUMP DISCHARGE	MANUAL HANDWHEEL					
401A	4"	CHECK VALVE	GRIT WASHER INLET						
401B	4"	CHECK VALVE	GRIT WASHER INLET						
402A	4"	PINCH VALVE	GRIT WASHER INLET	MANUAL CHAINWHEEL					
402B	4"	PINCH VALVE	GRIT WASHER INLET	MANUAL CHAINWHEEL					
403	4"	PINCH VALVE	GRIT WASHER INLET	MANUAL CHAINWHEEL					
306A	18"	PINCH VALVE	GRIT HOPPER DISCHARGE	ELECTRIC W/MANUAL CHAINWHEEL					
306B	18"	PINCH VALVE	GRIT HOPPER DISCHARGE	ELECTRIC W/MANUAL CHAINWHEEL					
117	36"	FLAP GATE	EXTRANEIOUS FLOW RETURN						
110A&110B	3"	GATE VALVE	PRESSURE GAGE SHUT-OFF	MANUAL HANDWHEEL					
119A&119B	3"	GATE VALVE	PRESSURE GAGE SHUT-OFF	MANUAL HANDWHEEL					
120A&120B	3"	GATE VALVE	PRESSURE GAGE SHUT-OFF	MANUAL HANDWHEEL					
121A&121B	3"	GATE VALVE	PRESSURE GAGE SHUT-OFF	MANUAL HANDWHEEL					
122A&122B	3"	GATE VALVE	PRESSURE GAGE SHUT-OFF	MANUAL HANDWHEEL					
123A&123B	3"	GATE VALVE	PRESSURE GAGE SHUT-OFF	MANUAL HANDWHEEL					
124A&124B	3"	GATE VALVE	PRESSURE GAGE SHUT-OFF	MANUAL HANDWHEEL					
125A&125B	3"	GATE VALVE	PRESSURE GAGE SHUT-OFF	MANUAL HANDWHEEL					

NOTES:

VALVES OR GATES IN 100 SERIES OPERATED FROM PUMP LEVEL

VALVES OR GATES IN 200 SERIES OPERATED FROM INTERMEDIATE LEVEL

VALVES OR GATES IN 300 SERIES OPERATED FROM OPERATIONS LEVEL

VALVES OR GATES IN 400 SERIES OPERATED FROM MEZZANINE LEVEL

VALVES OR GATES WITH THE SAME NUMBER BUT A DIFFERENT POSTSCRIPT ARE IDENTICAL AND ARE LOCATED SYMMETRICALLY ABOUT THE CENTERLINE OF THE BUILDING. THE POSTSCRIPT "A" DENOTES VALVES OR GATES LOCATED SOUTH OF THE CENTERLINE OF THE BUILDING. THE POSTSCRIPT "B" DENOTES VALVES OR GATES LOCATED NORTH OF THE CENTERLINE OF THE BUILDING.

VALVES OR GATES NOT HAVING A POSTSCRIPT DO NOT HAVE SYMMETRICALLY LOCATED COMPANIONS.

SYMBOLS KEY

○ VALVE OR GATE

□ EQUIPMENT

EQUIPMENT SCHEDULE

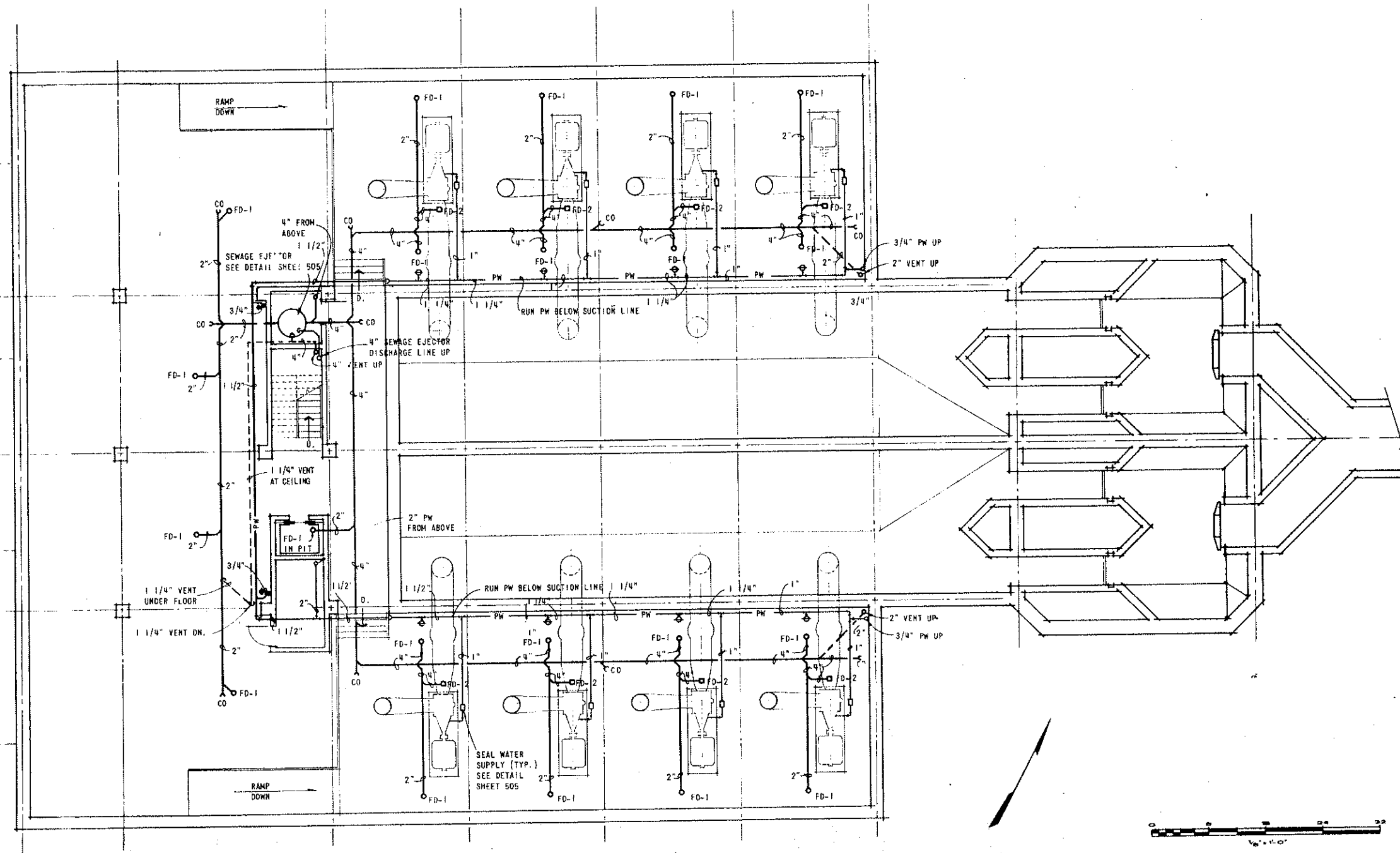
EQUIP. NO.	DESCRIPTION	LOCATION
LT-1	LEVEL TRANSDUCER	HEADWORKS - OPERATIONS LEVEL
LT-2	LEVEL TRANSDUCER	HEADWORKS - OPERATIONS LEVEL
R-1	BAR SCREEN	HEADWORKS - PUMP LEVEL
R-2	BAR SCREEN	HEADWORKS - PUMP LEVEL
R-3	BAR SCREEN	HEADWORKS - PUMP LEVEL
R-4	BAR SCREEN	HEADWORKS - PUMP LEVEL
S-1	SHREDDER	HEADWORKS - OPERATIONS LEVEL
S-2	SHREDDER	HEADWORKS - OPERATIONS LEVEL
S-3	SHREDDER	HEADWORKS - OPERATIONS LEVEL
S-4	SHREDDER	HEADWORKS - OPERATIONS LEVEL
LT-3	LEVEL TRANSDUCER	WET WELL NO. 1
LT-4	LEVEL TRANSDUCER	WET WELL NO. 2
P-1	WASTEWATER PUMP	PUMP PIT NO. 1
P-2	WASTEWATER PUMP	PUMP PIT NO. 2
P-3	WASTEWATER PUMP	PUMP PIT NO. 1
P-4	WASTEWATER PUMP	PUMP PIT NO. 2
P-5	WASTEWATER PUMP	PUMP PIT NO. 1
P-6	WASTEWATER PUMP	PUMP PIT NO. 2
P-7	WASTEWATER PUMP	PUMP PIT NO. 1
P-8	WASTEWATER PUMP	PUMP PIT NO. 2
LT-5	LEVEL TRANSDUCER	GRIT BASIN FACILITY - DIVERSION AREA
GA-1	GRIT AUGER	GRIT BASIN NO. 1
GA-2	GRIT AUGER	GRIT BASIN NO. 2
GA-3	GRIT AUGER	GRIT BASIN NO. 3
GA-4	GRIT AUGER	GRIT BASIN NO. 4
GP-1	GRIT PUMP	GRIT BASIN NO. 1
GP-2	GRIT PUMP	GRIT BASIN NO. 2
GP-3	GRIT PUMP	GRIT BASIN NO. 3
GP-4	GRIT PUMP	GRIT BASIN NO. 4
B-1	BLOWER	GRIT BASIN FACILITY - BLOWER ROOM NO. 1
B-2	BLOWER	GRIT BASIN FACILITY - BLOWER ROOM NO. 2
GW-1	GRIT WASHING EQUIPMENT	MEZZANINE LEVEL - SOUTH SIDE
GW-2	GRIT WASHING EQUIPMENT	MEZZANINE LEVEL - NORTH SIDE
LT-6	LEVEL TRANSDUCER	MEZZANINE LEVEL - GW-2 HOPPER
LT-7	LEVEL TRANSDUCER	MEZZANINE LEVEL - GW-1 HOPPER

WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
EQUIPMENT, VALVE AND GATE SCHEDULES
ENVIRONMENTAL

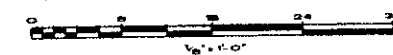
ADDITION OF EQUIPMENT SCHEDULE, 6"	28 MAR. 78	JGG	DESIGN	DRWN	DATE:
BUTTERFLY VALVE & 3" GATE VALVES			JGG	SJF	FEB. 1978
					FILE NO.
					75-101A
					SHEET NO. 421
					OF 421
REVISION	DATE	BY			

PLUMBING LEGEND

	WASTE PIPING
	VENT PIPING
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	PLANT WATER
	ROOF DRAIN LINE
	SEWER GAS
	FUEL OIL SUPPLY
	FUEL OIL RETURN
	FLOOR DRAIN
	CLEAN OUT
	HOSE BIBB
	RISE, DROP IN LINE
	RISE IDENTIFICATION NUMBER
	PLUMBING FIXTURE IDENTIFICATION NUMBER
	VENT THROUGH ROOF
	GATE VALVE
	CHECK VALVE
	PLUG VALVE
	NON-FREEZE WALL HYDRANT



PUMP LEVEL FLOOR PLAN
1/8" = 1'-0"



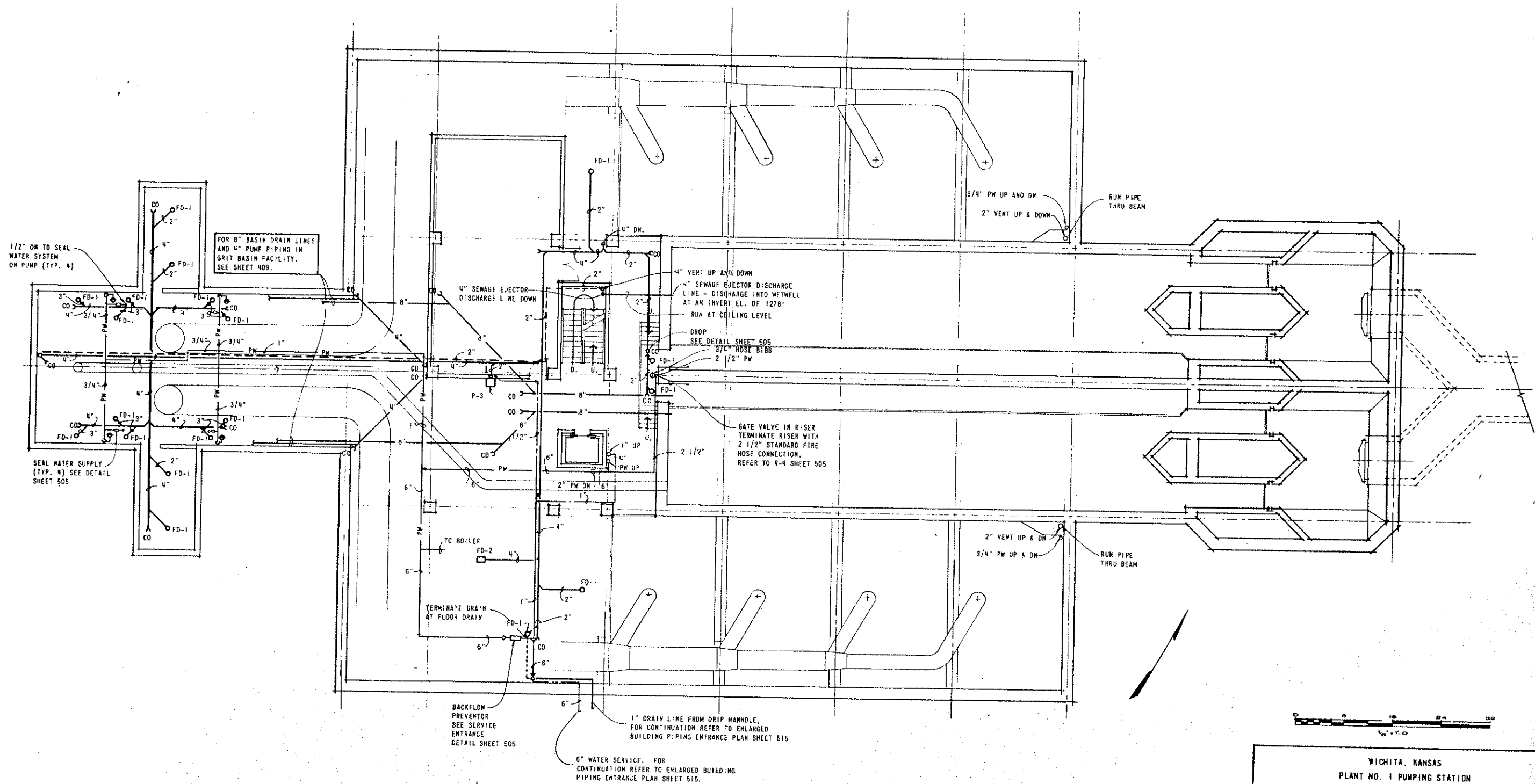
WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
PLUMBING PLAN PUMP LEVEL
MECHANICAL

DESIGN GDS	DRWR JFB	DATE: FEB. 1978
		FILE NO. 75-181A
		SHEET NO. 501 OF 518
REVISION	DATE	BY



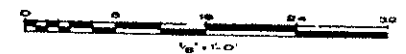
SHELLEY-WILSON
ENGINEERS-ARCHITECTS-PLANNERS

224 LARSEN • WICHITA, KANSAS 67201



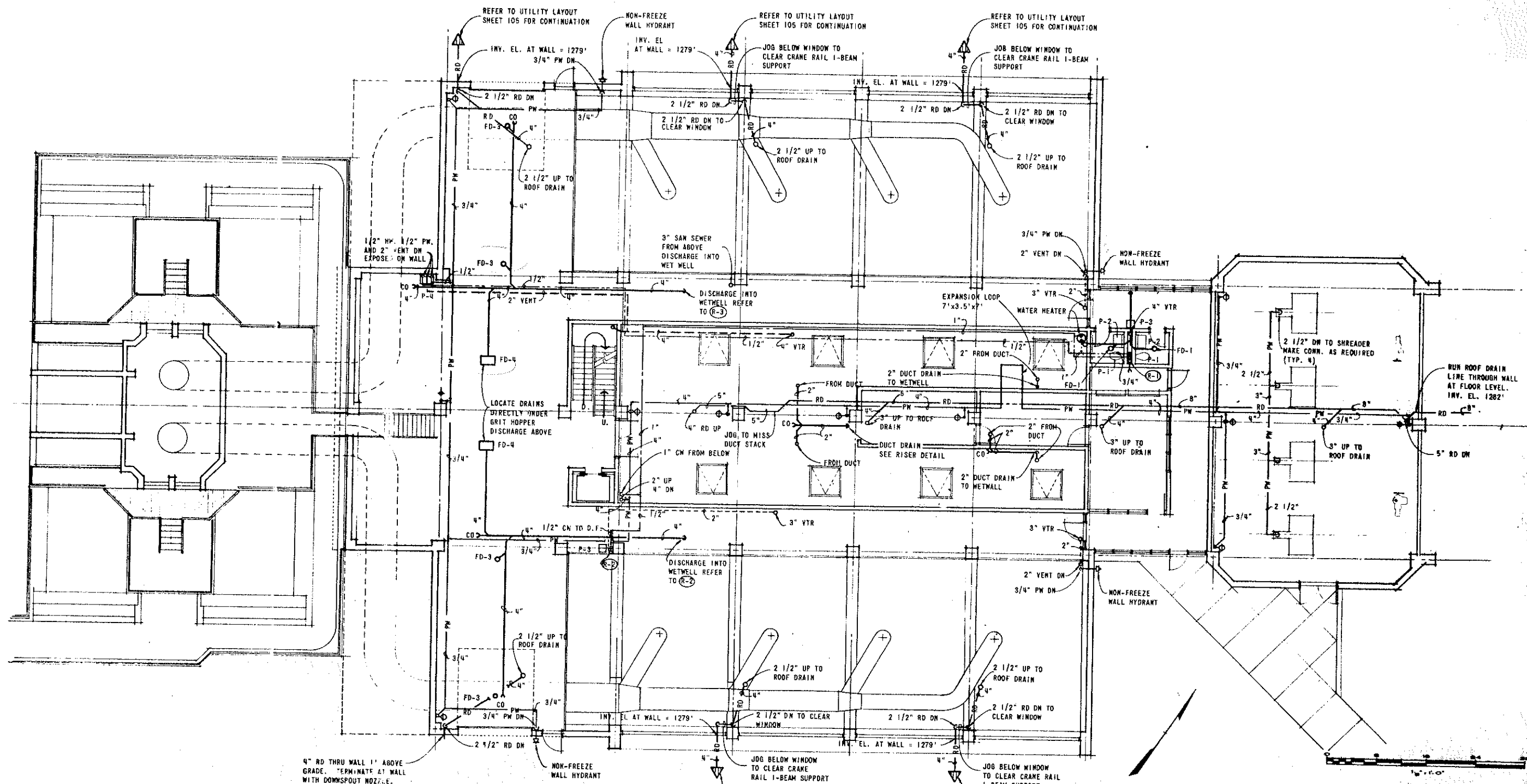
INTERMEDIATE LEVEL FLOOR PLAN

1/8" = 1'-0"



WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
PLUMBING PLAN INTERMEDIATE LEVEL
MECHANICAL

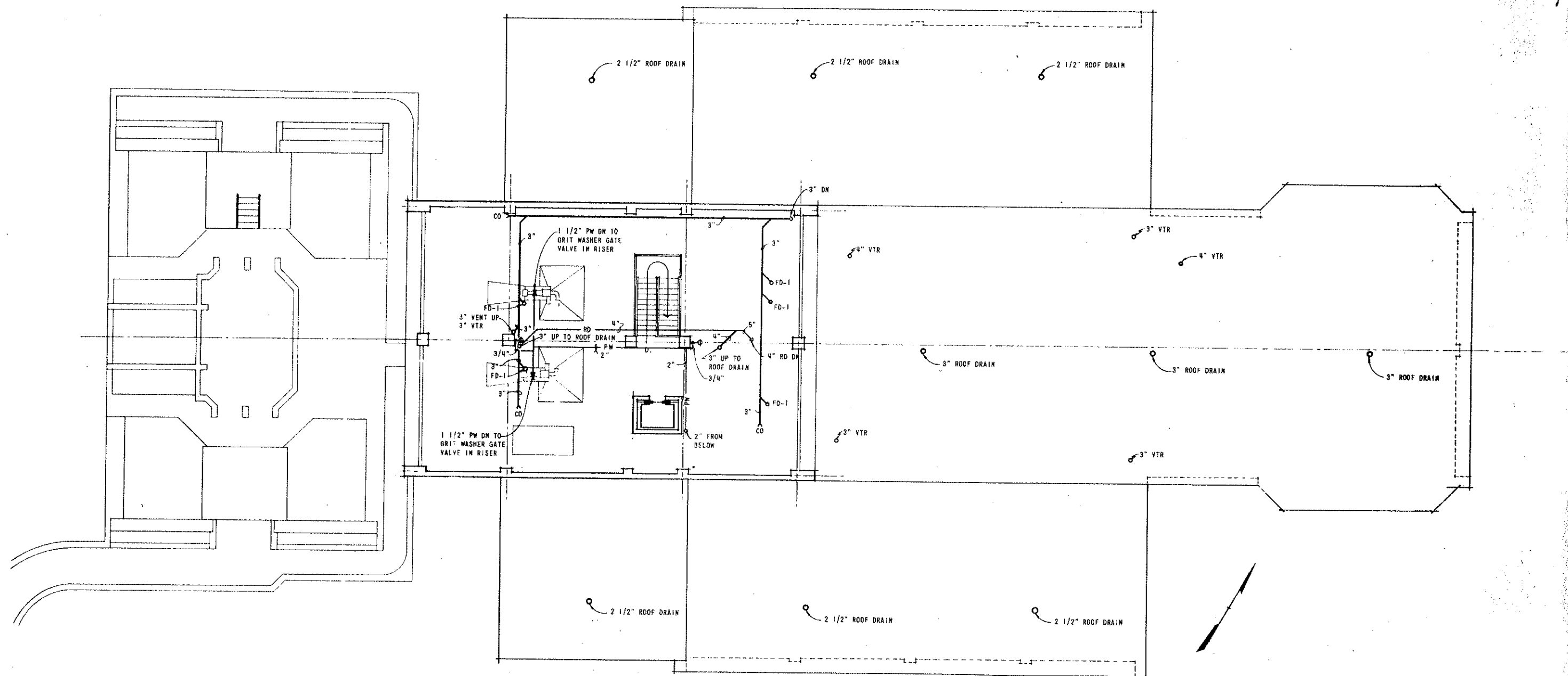
REVISOR	DATE	BY	DESIGN	DRMR	 SHELLEY-WILSON ENGINEERS-ARCHITECTS-PLANNERS 204 LAUREL ST. WICHITA, KANSAS 67201	DATE
			GDS	JFB		FEB. 1978
						FILE NO.
						75-181A
						SHEET NO. 502
						OF 518



OPERATIONS LEVEL FLOOR PLAN

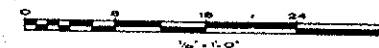
1/8" = 1'-0"

WICHITA, KANSAS		
PLANT NO. 1 PUMPING STATION		
PLUMBING PLAN OPERATIONS LEVEL		
MECHANICAL		
DESIGN GDS	DRAWN JFB	DATE: FEB. 1976
		FILE NO. 75-101A
		SHEET NO. 503
		OF 518
SHELLEY-WILSON ENGINEERS-ARCHITECTS-PLANNERS 200 NORTH W. WYOMING, KANSAS 66101		
REVISION	DATE	BY



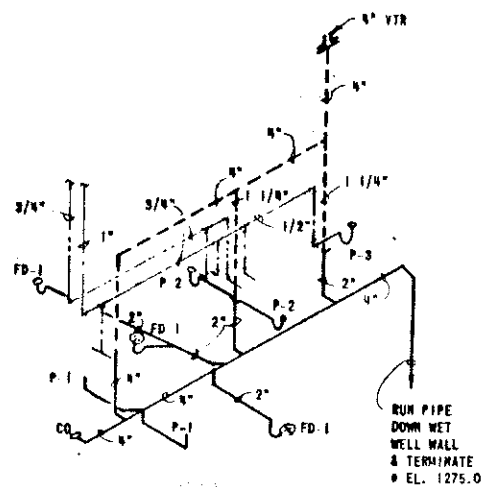
MEZZANINE LEVEL FLOOR PLAN

1/8" = 1'-0"

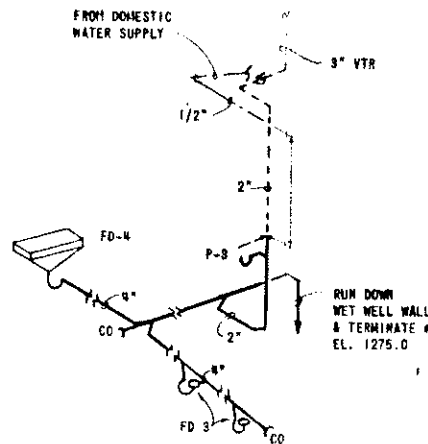


REVISION	DATE	BY

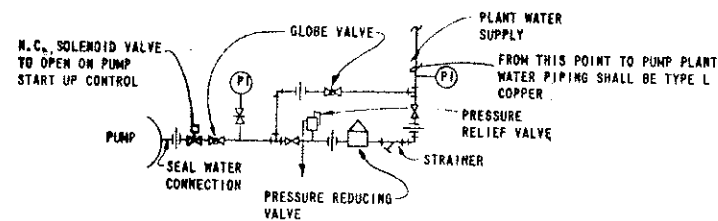
WICHITA, KANSAS		DATE: FEB. 1978
PLANT NO. 1 PUMPING STATION		FILE NO. 75-187A
PLUMBING PLAN MEZZANINE LEVEL		SHEET NO. 504
MECHANICAL		OF 518
DESIGN GDS	DRAWN JFB	 SHELLEY-WILSON ENGINEERS-ARCHITECTS-PLANNERS 254 S. 10TH ST. SUITE 1000 WICHITA, KANSAS 67202
REVISION DATE BY		



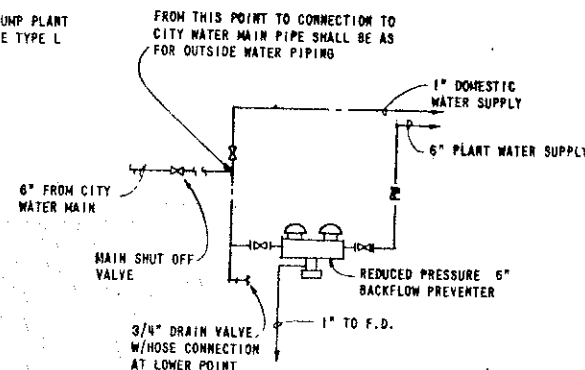
RISER DIAGRAM (R-1)
NO SCALE



RISER DIAGRAM (R-2)
NO SCALE

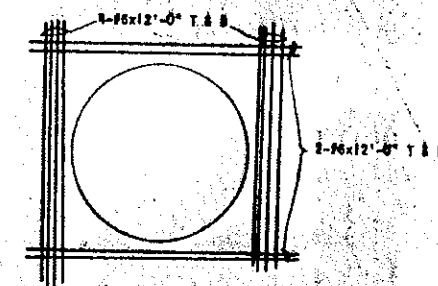


SEAL WATER CONNECTION DIAGRAM
NO SCALE

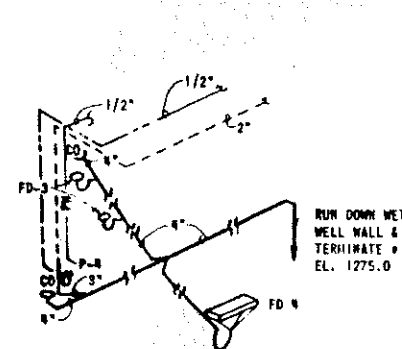


WATER SERVICE ENTRANCE DETAIL
NO SCALE

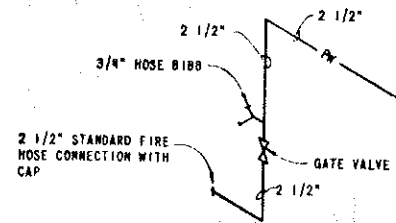
PLUMBING FIXTURE SCHEDULE					
MARK	ITEM	QTY	SIZE	WASTE	VENT
P-1	WATER CLOSET	1	4"	4"	4"
P-2	LAVATORY	1	1 1/2"	1 1/2"	1 1/2"
P-3	DRINKING FOUNTAIN	1	1 1/2"	1 1/2"	1 1/2"
P-4	SERVICE SINK	1	1 1/2"	1 1/2"	1 1/2"



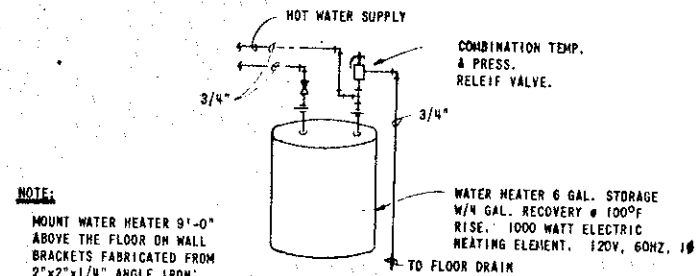
SUMP DETAIL TOP VIEW
NO SCALE



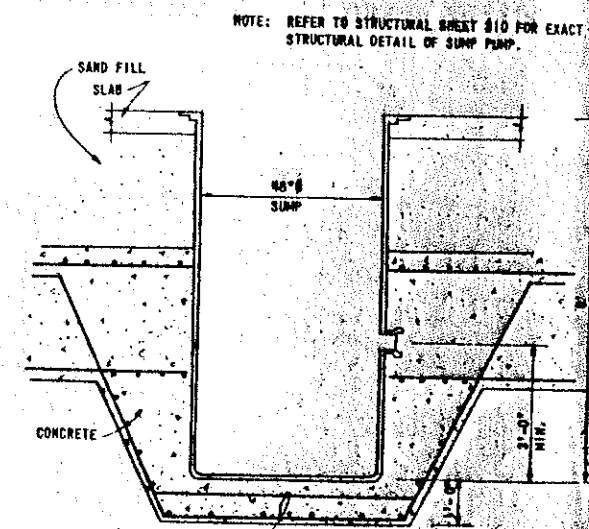
RISER DIAGRAM (R-3)
NO SCALE



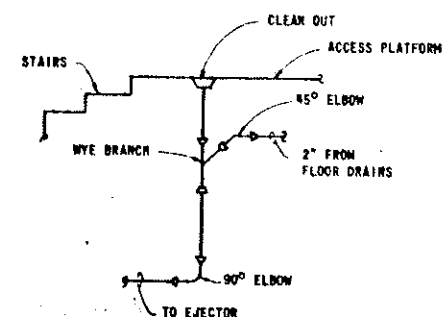
RISER DIAGRAM (R-4)
NO SCALE



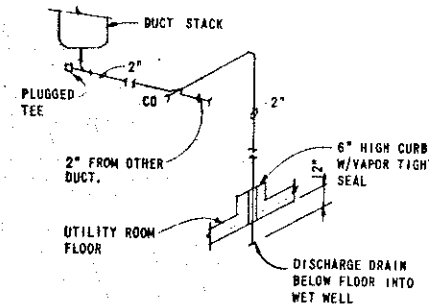
WATER HEATER PIPING DIAGRAM
NO SCALE



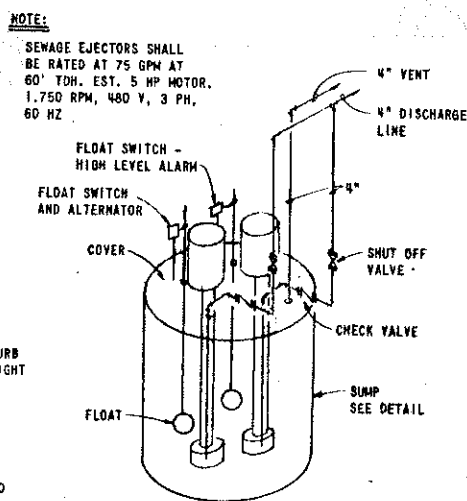
SUMP DETAIL SECTION
NO SCALE



DROP DETAIL AT WET WELL
CAT WALK ACCESS DOORS
NO SCALE



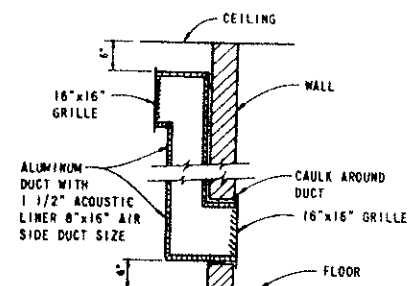
RISER AT DUCTWORK DRAIN
NO SCALE



SEWAGE EJECTOR PIPING DIAGRAM
NO SCALE

WICHITA KANSAS PLANT NO. 1 PUMPING STATION RISER DIAGRAM AND DETAILS MECHANICAL		
DESIGN DSS	DRAWN JPM	DATE MAY 1974
		FILE NO. 75-1111
		PROJECT NO. 75-1111
REVISION	DATE	BY

#8 Exhaust Fan Ducts
4600 cfm



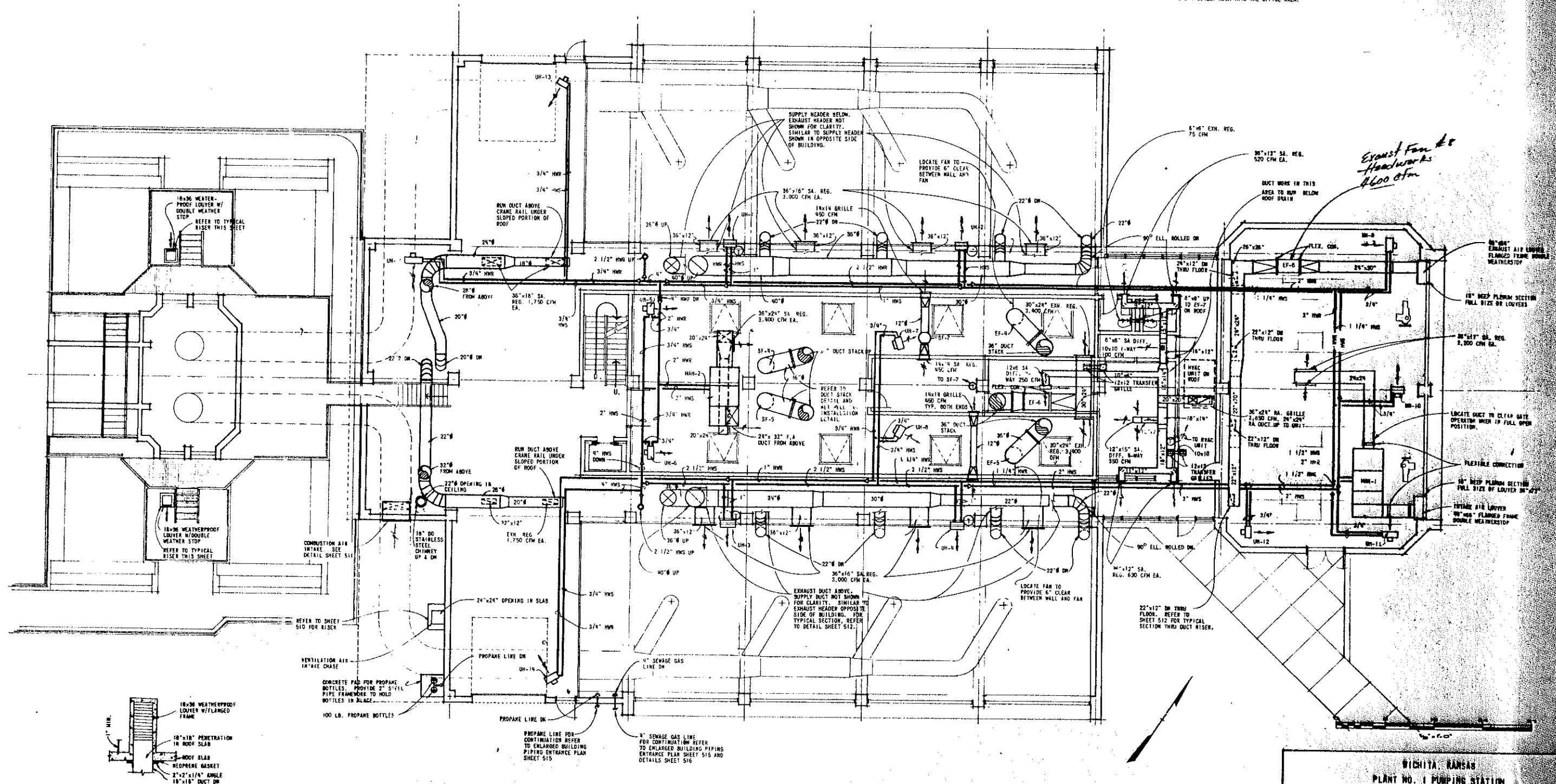
TRANSFER GRILLE DETAIL
NO SCALE

INTERMEDIATE LEVEL FLOOR PLAN

 $1/8'' \approx 1'00''$

			DESIGN GDS		DRAWN JFB				DATE: FEB. 1970	
									FILE NO. 75-101A	
RELOCATION OF BOILER STACK			4 APRIL 70		GDS		SHELLEY-WILSON ENGINEERS-ARCHITECTS-PLANNERS 300 LEXINGTON AVENUE - 15TH FLOOR - NEW YORK, N.Y. 10017		SHEET NO. 507 OF 510	
REVISION			DATE		BY					

NOTE:
 ROOFTOP HVAC UNIT AS SHOWN IS SIZED TO SUPPLY 100 CFM IN EXCESS OF THE RETURN AND EXHAUST AIR QUANTITIES TO MAINTAIN THE OFFICE AREA AT A POSITIVE PRESSURE WITH RESPECT TO THE REST OF THE BUILDING. THE EXHAUST FAN (EF-4) IN THE BAR SCREEN ROOM IS SIZED TO REMOVE 200 CFM MORE THAN IS SUPPLIED TO THE ROOM TO PROVIDE A NEGATIVE PRESSURE WITH RESPECT TO THE REST OF THE BUILDING. SYSTEM SHALL BE BALANCED TO PREVENT FLOW OF AIR FROM THE BAR SCREEN ROOM INTO THE OFFICE AREA.



*Exhaust Fan to
 Headworks
 4600 cfm*

**TYPICAL RISER AT BLOWER
 ROOM INTAKE AND EXHAUST LOUVER**
 1/4" = 1'-0"

OPERATIONS LEVEL FLOOR PLAN
 1/8" = 1'-0"

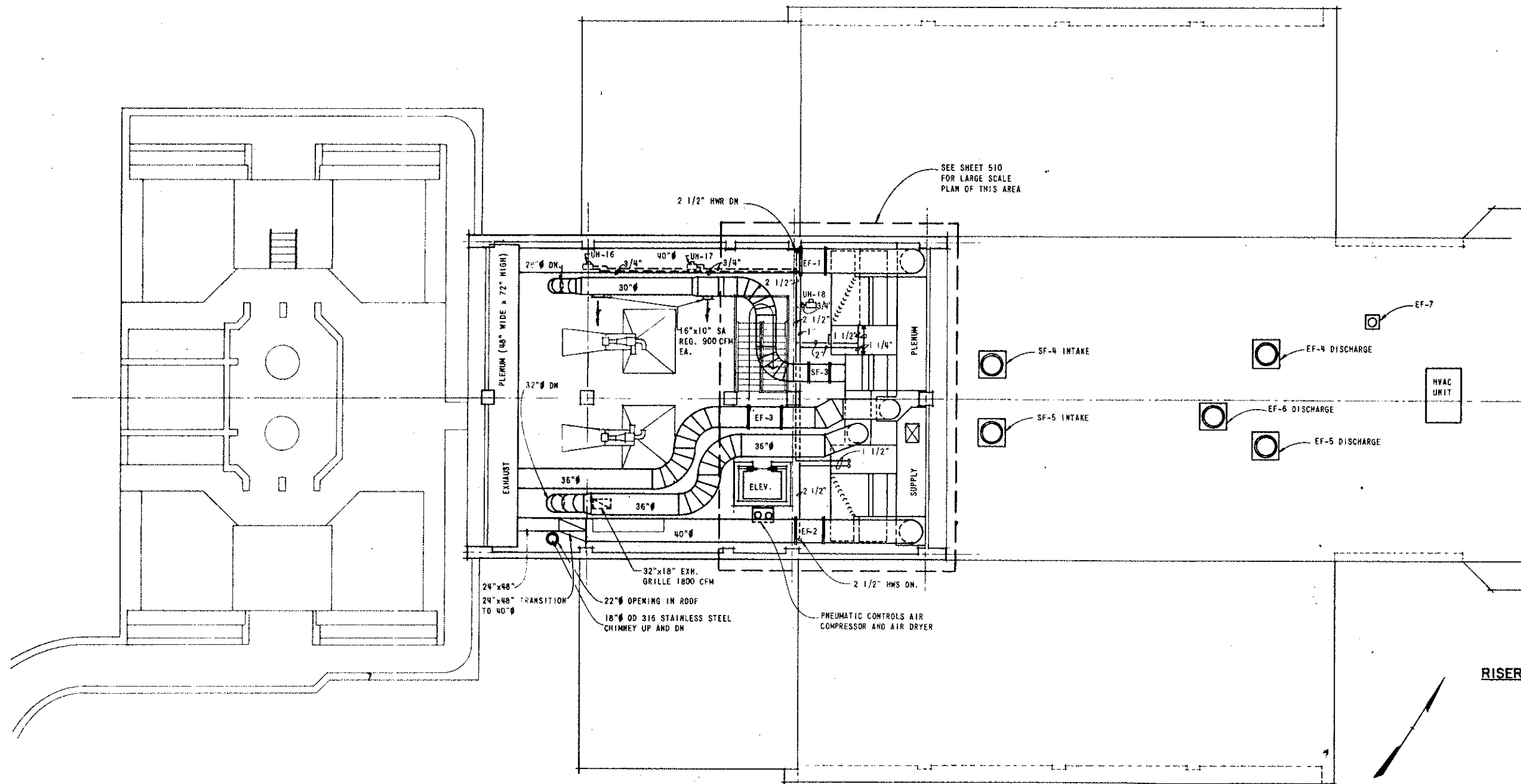
RELOCATION OF BOILER STACK	4 APRIL 78	GDS
REVISION	DATE	BY

WICHITA, KANSAS
 PLANT NO. 1 PUMPING STATION
 HVAC PLAN OPERATIONS LEVEL
 MECHANICAL

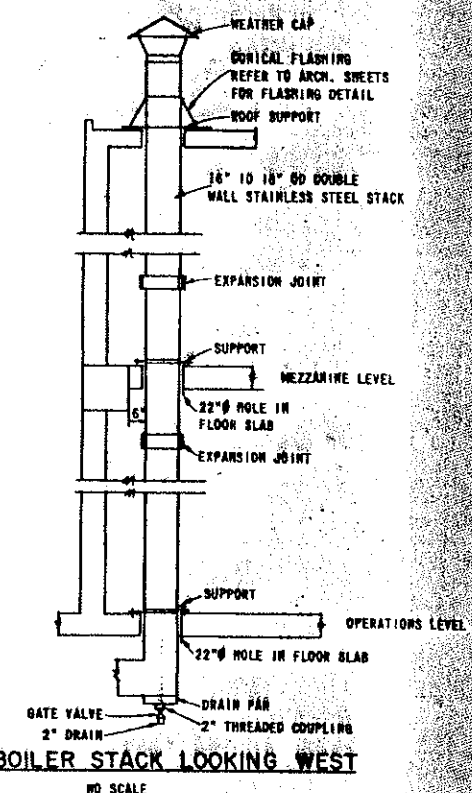
DESIGN: GDS
 DRAW: JFB

DATE: FEB 1978
 FILE NO: 78-101A
 SHEET NO: 200
 OF 210

SHELLEY-WILSON
 ENGINEERS-ARCHITECTS-PLANNERS



MEZZANINE LEVEL FLOOR PLAN
1/8" = 1'-0"



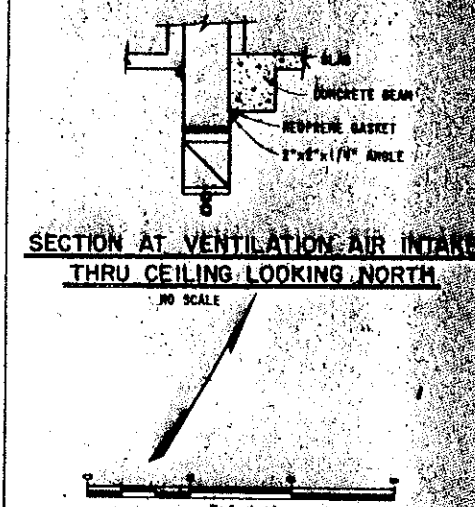
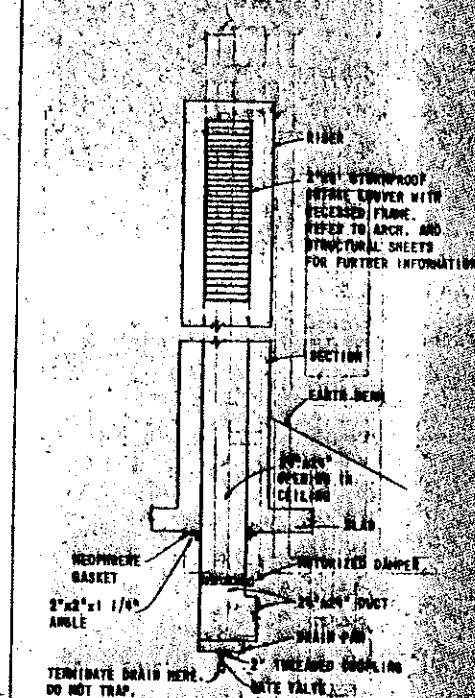
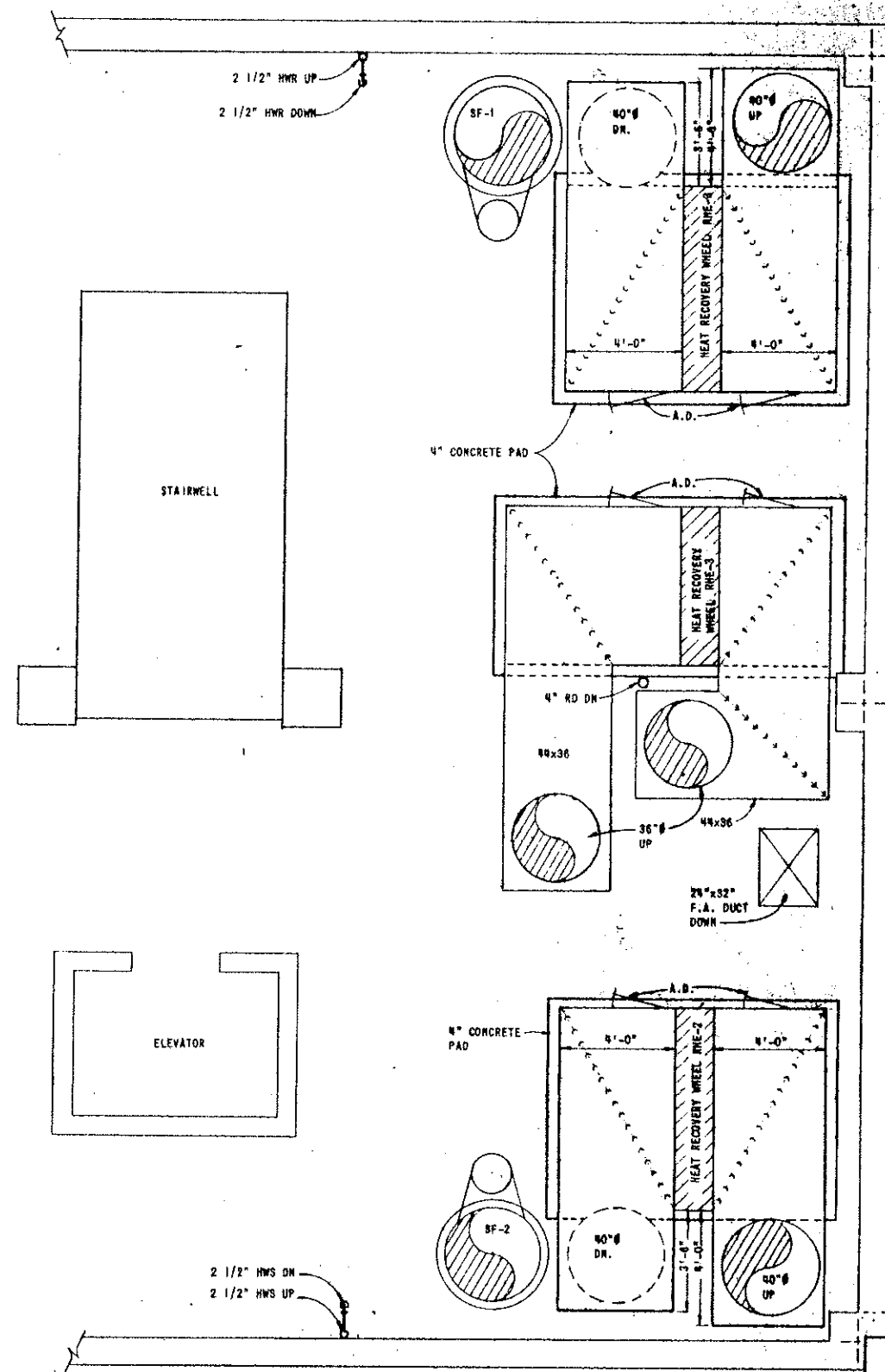
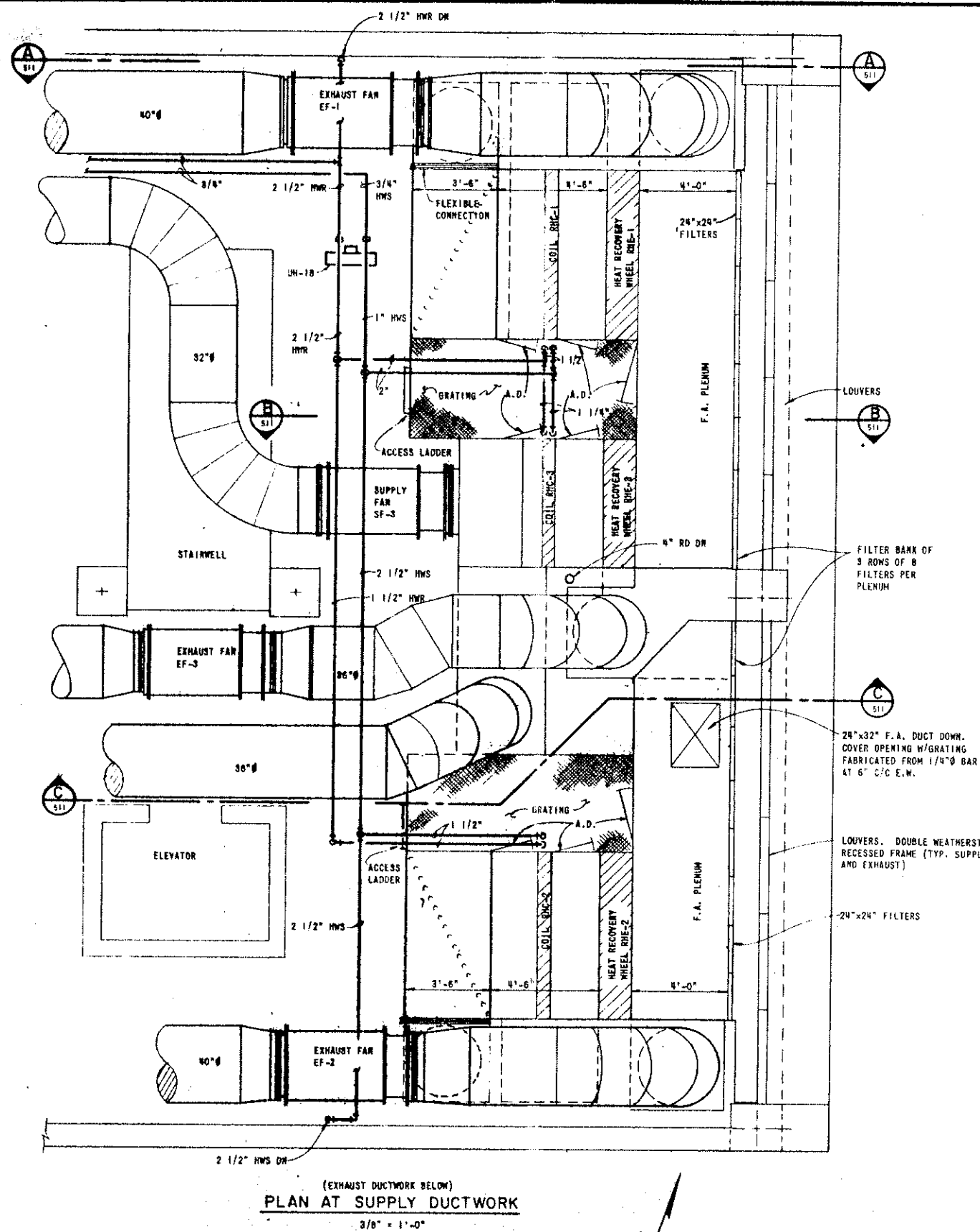
RISER AT BOILER STACK LOOKING WEST
NO SCALE

WICHITA, KANSAS
PLANT NO. 1 PUMPING STATION
HVAC PLAN MEZZANINE LEVEL
MECHANICAL

DESIGN	GDS	DATE	4 APRIL 78	BY	GDS
DRAWN	JFB	DATE	4 APRIL 78	BY	GDS
BOILER STACK DETAIL		DATE	4 APRIL 78	BY	GDS
RELOCATION OF BOILER STACK		DATE	4 APRIL 78	BY	GDS
REVISION		DATE		BY	



DATE: FEB. 1978
FILE NO. 78-101A
SHEET NO. 518
OF 518

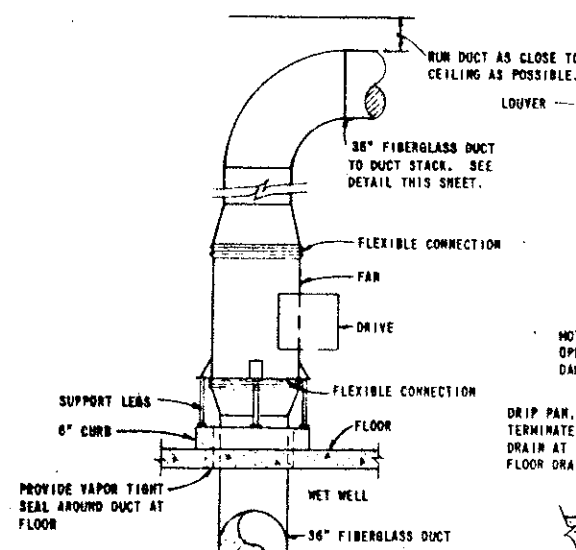


(SUPPLY DUCTWORK ABOVE)

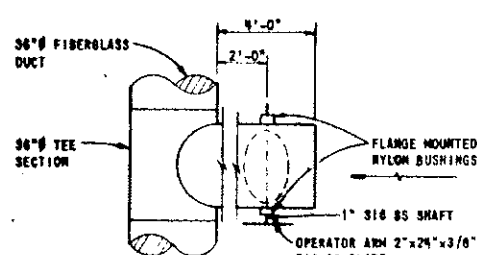
PLAN AT EXHAUST DUCTWORK

3/8" = 1'-0"

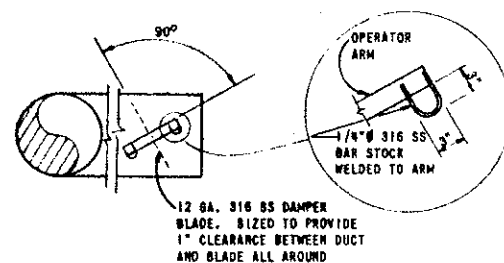
WICHITA, KANSAS		PLANT NO. 1 PUMPING STATION		VENTILATION EQUIPMENT PLAN		MECHANICAL	
DESIGN	GOB	DATE	RAL	DATE	GOB	DATE	GOB
RELOCATION OF BOILER STACK	4 APRIL 78	GOB					
REVISION	DATE	BY					



**WET WELL FAN
INSTALLATION DETAIL**
NO SCALE

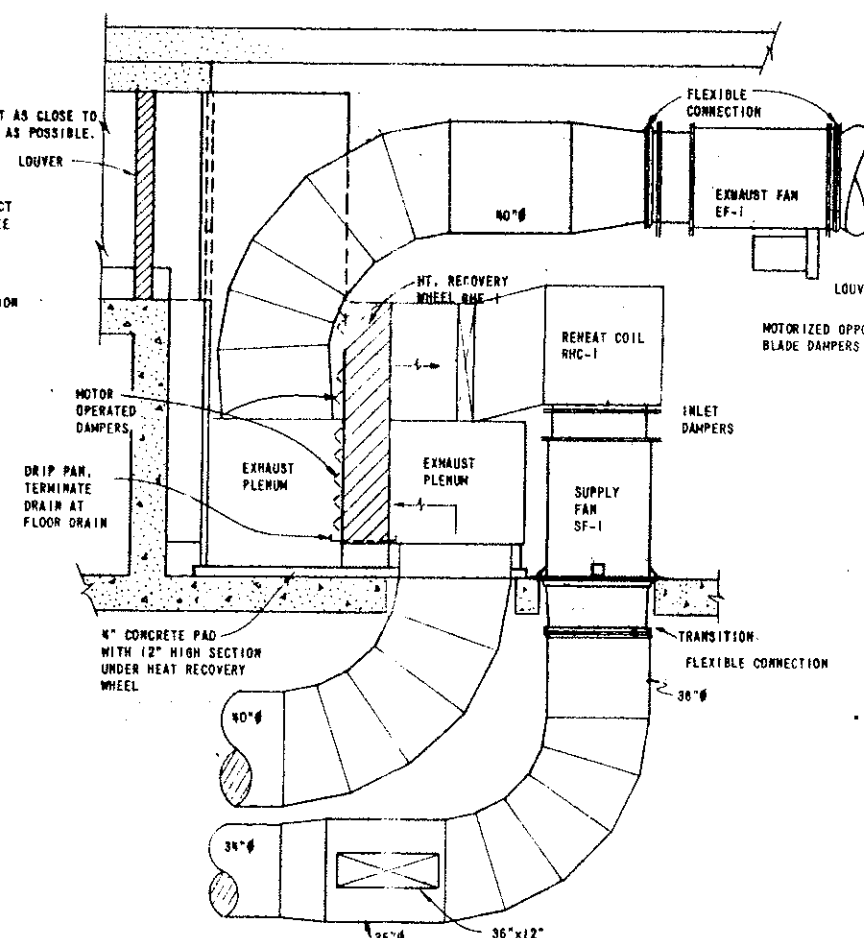


PLAN

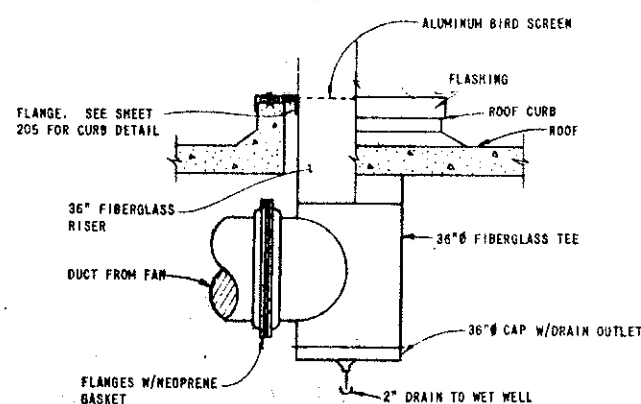


ELEVATION

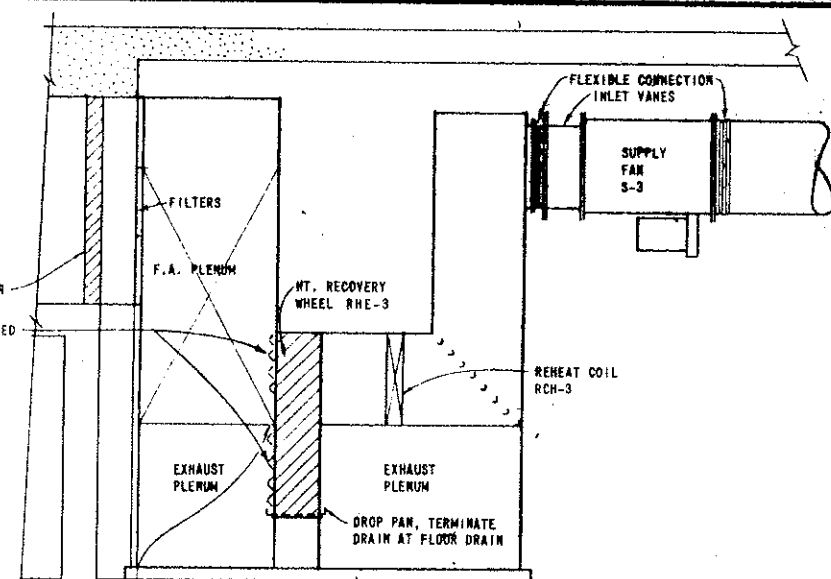
WET WELL EXHAUST DAMPER DETAIL
NO SCALE



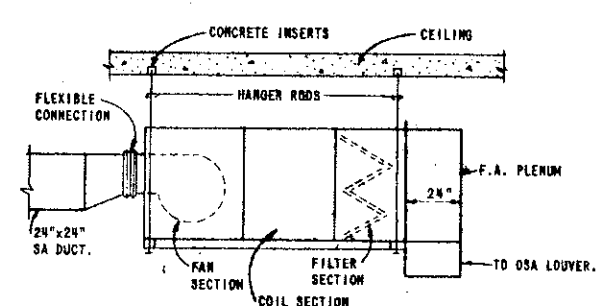
SECTION A
510



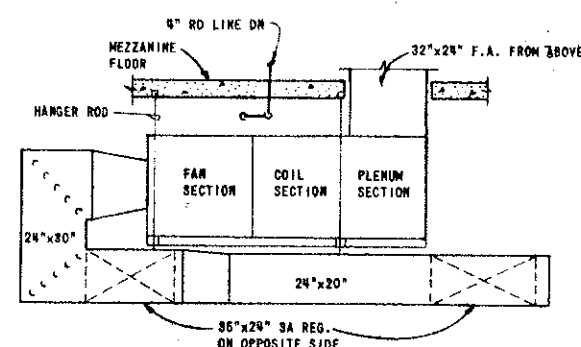
DUCT STACK DETAIL
NO SCALE



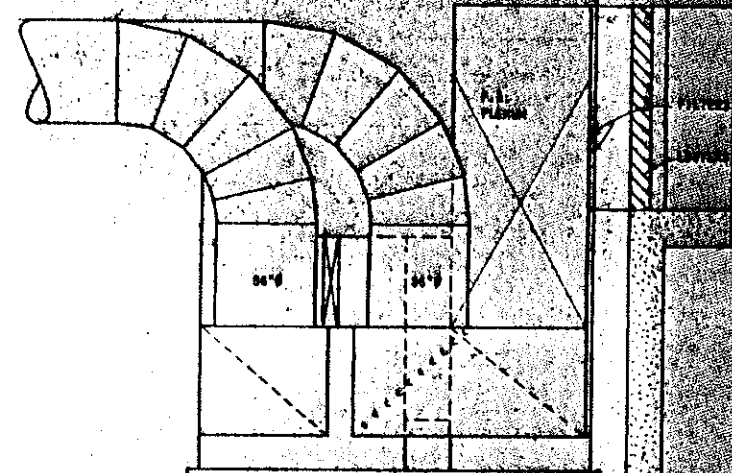
SECTION B
510



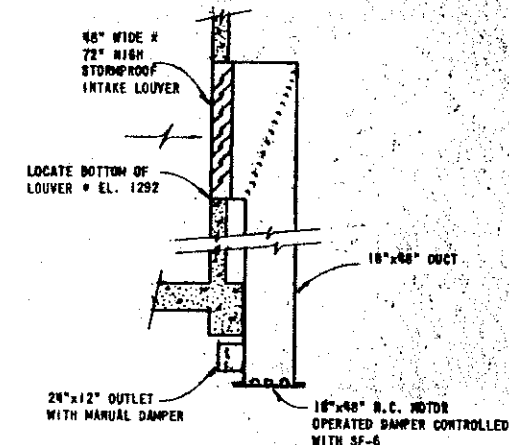
ELEVATION AT MAU-1
NO SCALE



ELEVATION AT MAU-2
NO SCALE

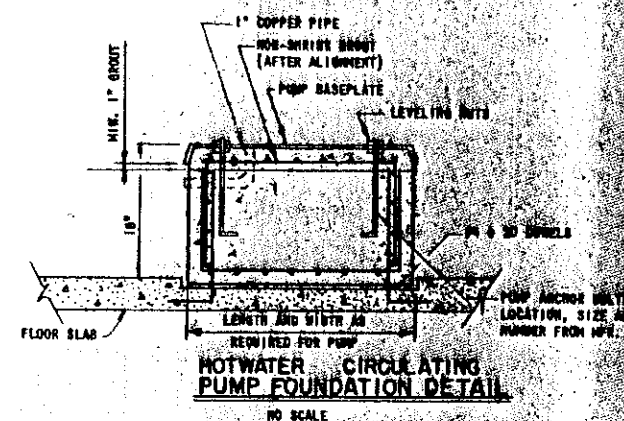
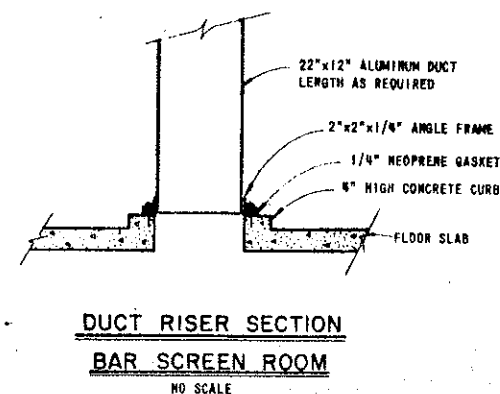


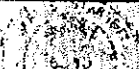
SECTION C
510

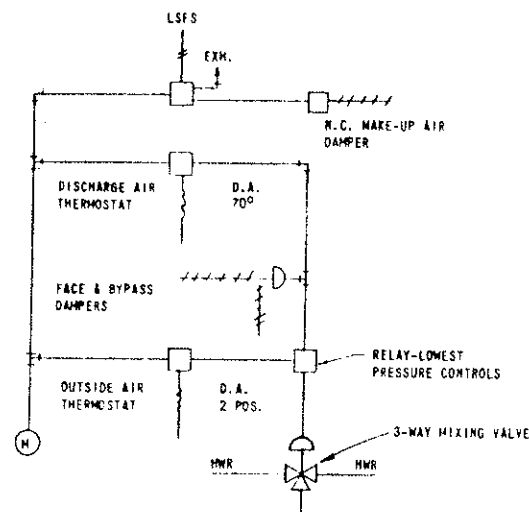


COMBUSTION AIR INTAKE DETAIL
NO SCALE

WICHITA, KANSAS PLANT NO. 1 PUMPING STATION HVAC DETAILS MECHANICAL			
DESIGN GOS	DRAWN RAL	DATE FEB 21 1978	FILE NO. 75-1013
SHELLEY-WILSON ENGINEERS-ARCHITECTS-PLANNERS		SHEET NO. 511 OF 515	

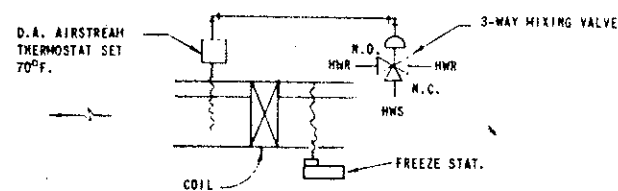


			DICHITA, KANSAS PLANT NO. 1 PUMPING STATION PIPING SCHEMATIC MECHANICAL	
			DESIGN GOS	DATE 1/10/68
				 SHAW-WALKER ENGINEERS-ARCHITECTS-PLANNERS 1001 N. 10th St., Suite 100, Omaha, Nebraska 68102
				DATE FEB 1971
				FILE NO. 78-101A
				SHEET NO. 1 OF 1
				W 178
REVISION	DATE	BY		



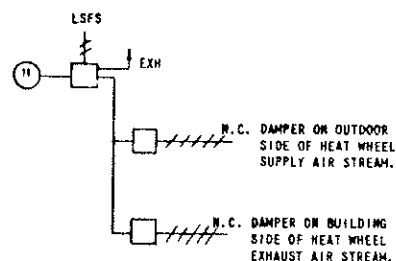
MAKE UP AIR HEATER CONTROL, MAH-1 & 2

SEQUENCE OF OPERATION: FAN SHALL BE STARTED WITH ITS RESPECTIVE EXHAUST FAN. WHEN OUTSIDE AIR IS ABOVE 40°F., DISCHARGE AIR THERMOSTAT CONTROLS FACE AND BYPASS DAMPERS AND HOT WATER VALVE TO MAINTAIN TEMPERATURE. WHEN OUTSIDE AIR TEMPERATURE IS BELOW 40°F., OUTSIDE AIR THERMOSTAT OPENS WATER VALVE. DISCHARGE AIR THERMOSTAT CONTROLS FACE AND BYPASS DAMPERS TO MAINTAIN DISCHARGE AIR TEMPERATURE.



REHEAT COIL CONTROL, RHC 1, 2 & 3

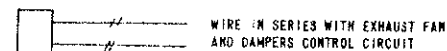
SEQUENCE OF OPERATION: AIRSTREAM THERMOSTAT MODULATES THE 3-WAY MIXING VALVE TO MAINTAIN ITS SETPOINT. FREEZE-STAT DE-ENERGIZES SUPPLY AND EXHAUST FANS WHEN TEMPERATURE ENTERING COIL DROPS TO 40°.



ROTARY HEAT EXCHANGER DAMPER CONTROL RHE 1, 2 & 3

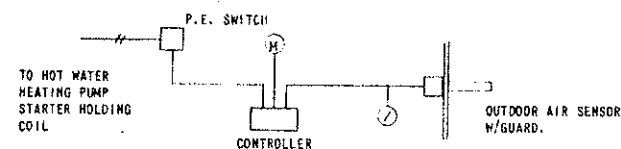
SEQUENCE OF OPERATION: WHEN SYSTEM IS ENERGIZED THE SUPPLY AND EXHAUST FANS TURN ON AND DAMPERS GO TO FULL OPEN POSITION. WHEN SYSTEM IS DE-ENERGIZED THE SUPPLY AND EXHAUST FANS SHUT OFF AND THE DAMPERS GO TO FULL CLOSED POSITION.

2-STAGE COOLING THERMOSTAT



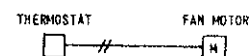
BOILER ROOM VENTILATION CONTROL

SEQUENCE OF OPERATION: ON A RISE IN TEMPERATURE, THE EXHAUST FAN STARTS AT LOW SPEED AND THE MOTOR OPERATED SUPPLY DAMPERS OPEN. ON A FURTHER RISE IN TEMPERATURE, THE EXHAUST FAN GOES TO HIGH SPEED. THE REVERSE SEQUENCE OCCURS ON A TEMPERATURE FALL.



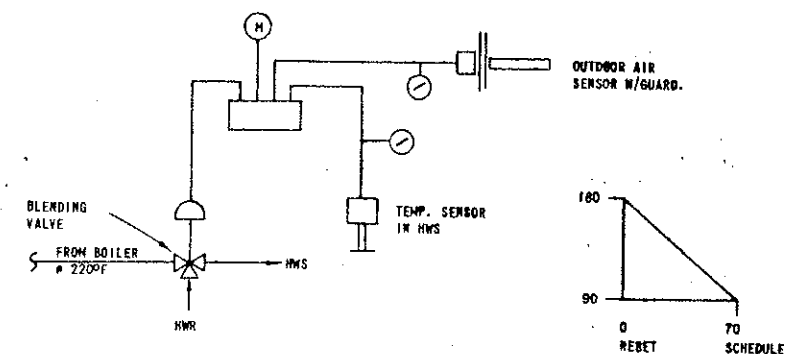
HOT WATER HEATING PUMP CONTROL

SEQUENCE OF OPERATION: TURN PUMP ON AT 55°F. OUTSIDE AIR TEMPERATURE. TURN PUMP OFF AT 60°F.



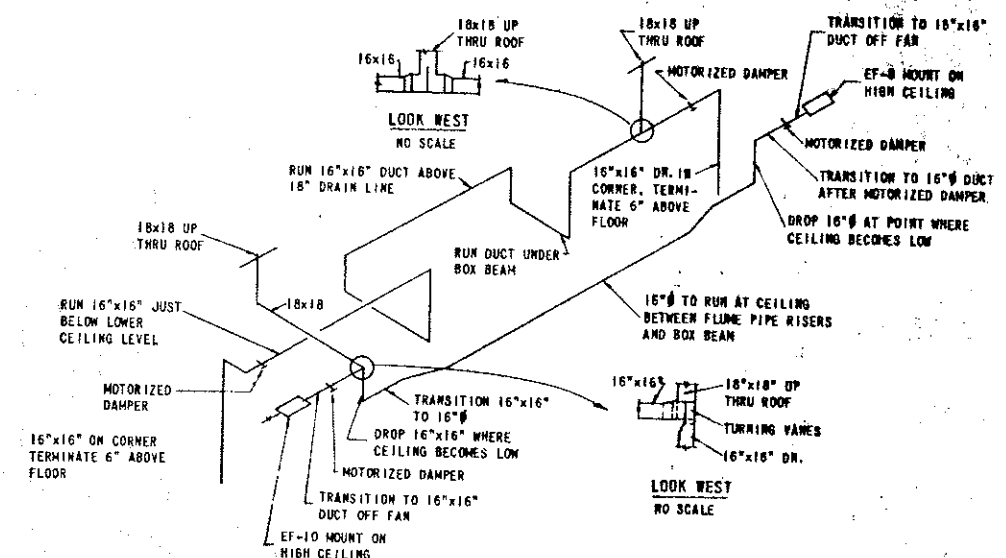
UNIT HEATER CONTROL

SEQUENCE OF OPERATION: THERMOSTAT SHALL CYCLE UNIT HEATER FAN IN RESPONSE TO A FALL IN TEMPERATURE. THERMOSTATS SHALL BE EITHER MOUNTED ON THE UNIT OR REMOTE MOUNTED AS INDICATED ON THE UNIT HEATER SCHEDULE.



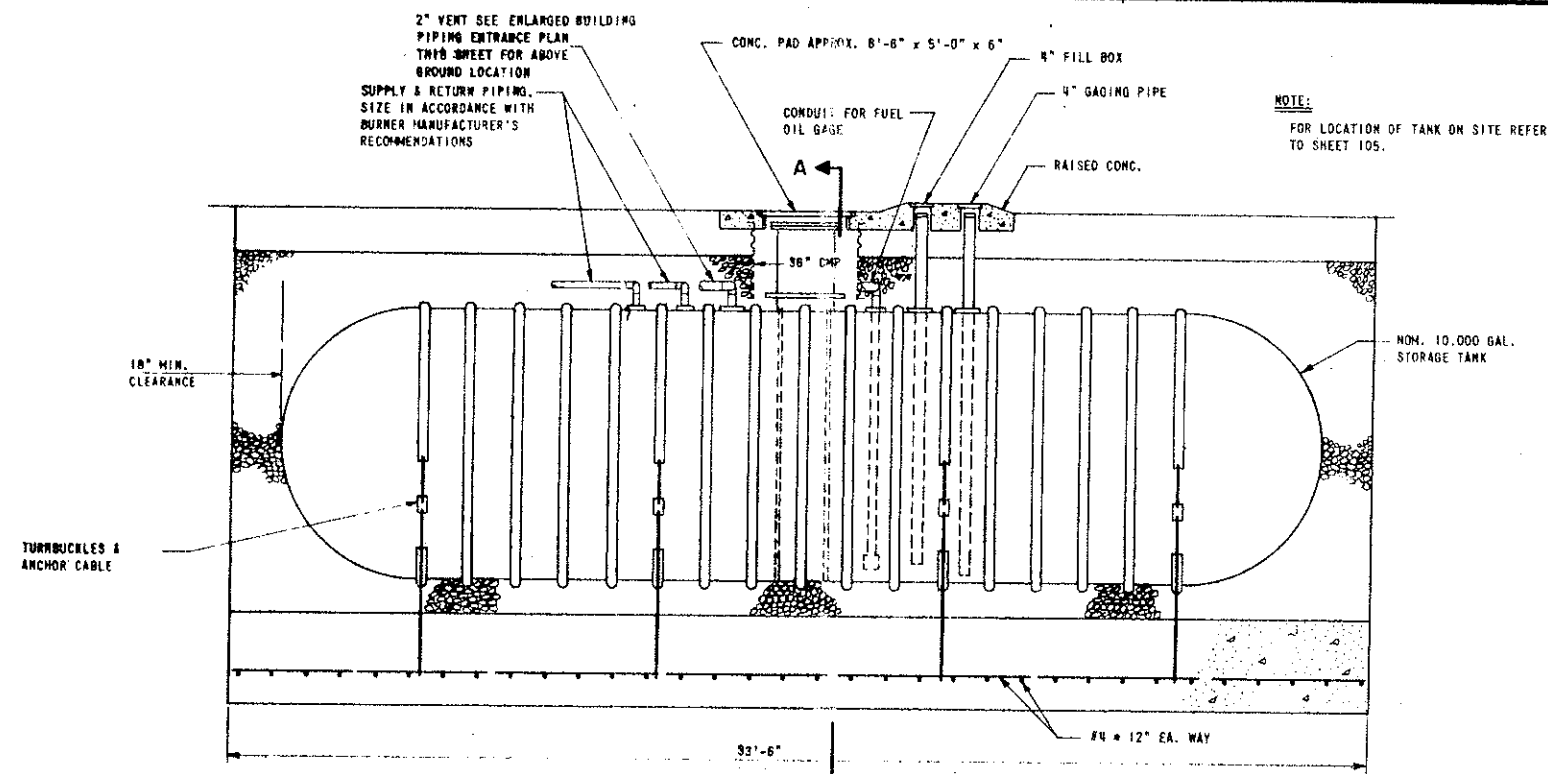
HOT WATER RESET CONTROL

SEQUENCE OF OPERATION: A SENSOR SENSING THE SUPPLY WATER TEMPERATURE DOWN STREAM OF THE BLENDING VALVE AND A SENSOR SENSING THE OUTDOOR AIR TEMPERATURE SHALL ACT THROUGH A MASTER CONTROLLER TO POSITION THE BLENDING VALVE TO MAINTAIN THE DESIRED WATER TEMPERATURE SUPPLY SCHEDULE. THE SUPPLY WATER TEMPERATURE SHALL BE INCREASED AS THE OUTDOOR AIR TEMPERATURE DECREASES, ACCORDING TO THE RESET SCHEDULE.



BLOWER ROOM VENTILATION DUCTWORK SCHEMATIC

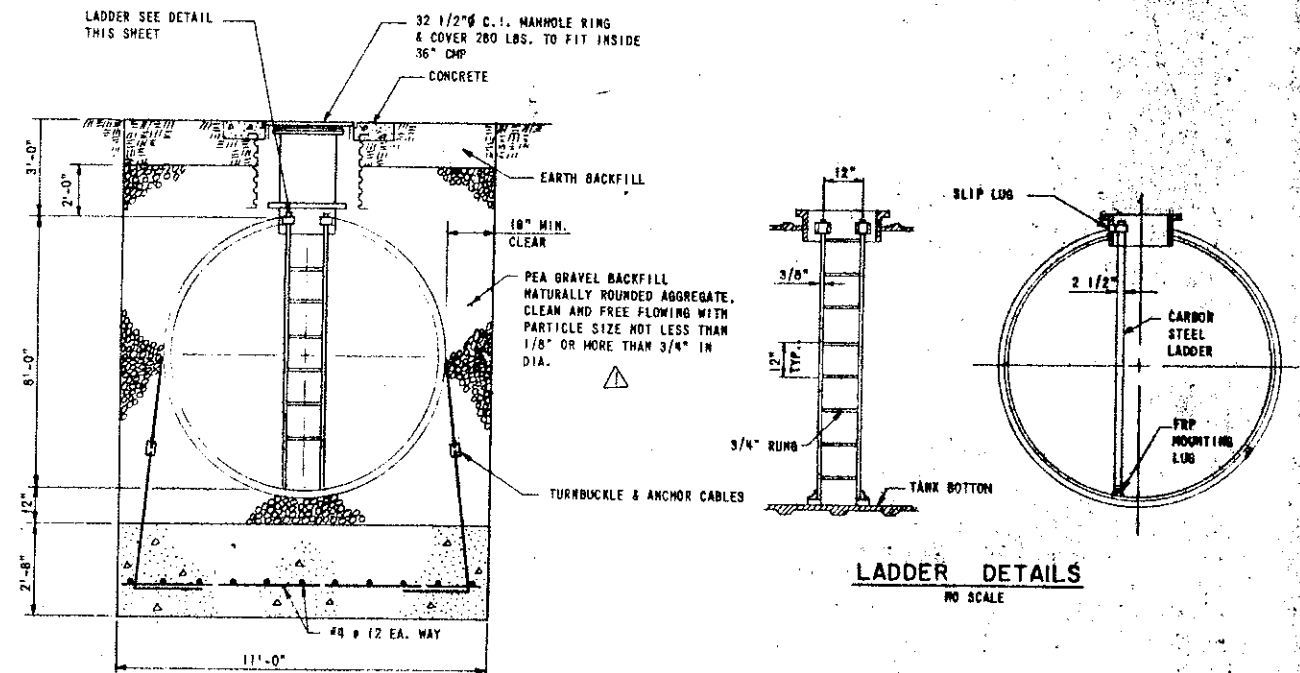
WICHITA, KANSAS PLANT NO. 1 PUMPING STATION			
CONTROL DIAGRAMS MECHANICAL			
DESIGN GDS	DRAWN JMG	DATE FEB. 1970	FILE NO. 775-181A
SHELLEY-WILSON ENGINEERS-ARCHITECTS-PLANNERS		SHEET NO. 51A OF 51B	
REVISION	DATE	BY	



ELEVATION

3/8" = 1'-0"

NOTE:
FOR LOCATION OF TANK ON SITE REFER TO SHEET 105.

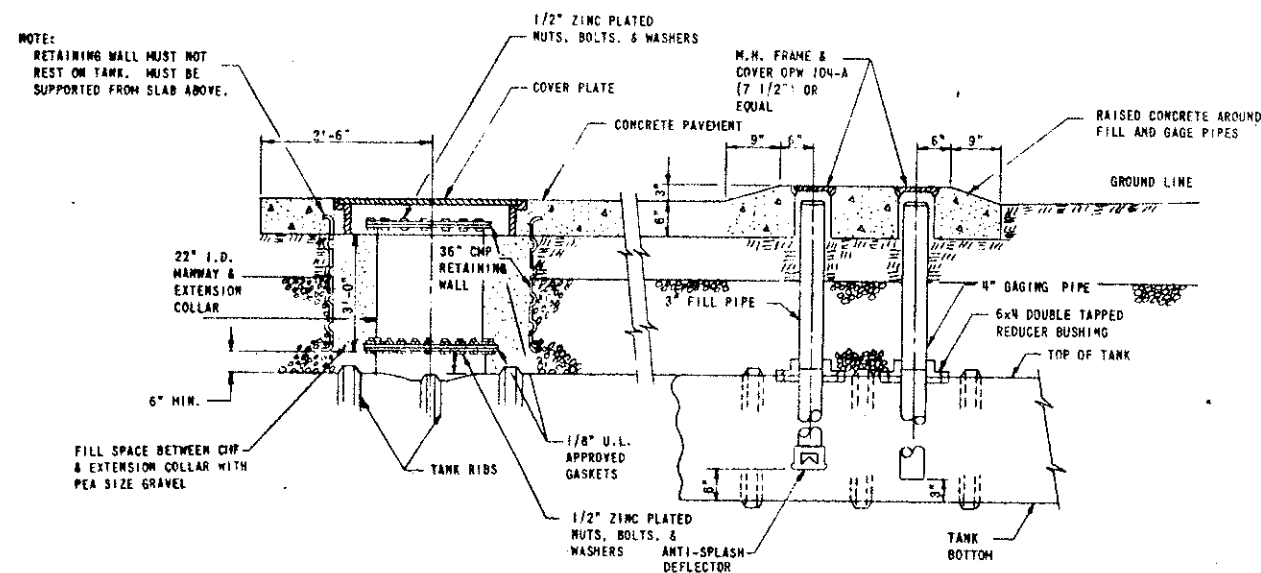


SECTION A-A

3/8" = 1'-0"

LADDER DETAILS

NO SCALE

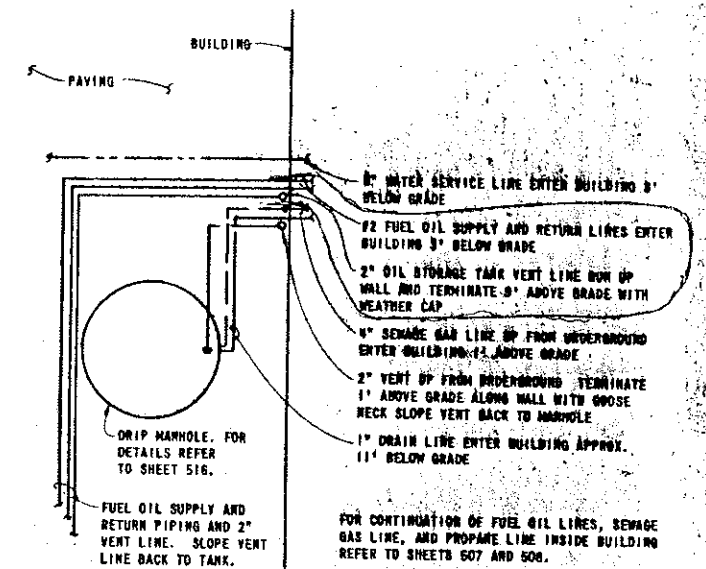


MANWAY DETAIL

NO SCALE

FILL AND GAGE DETAIL

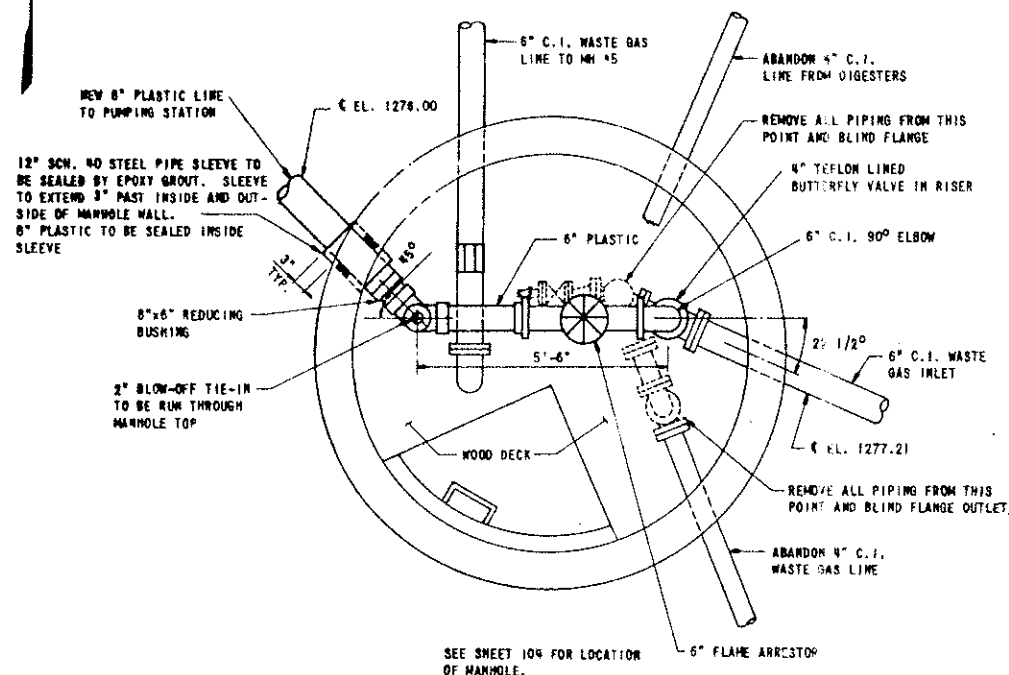
NO SCALE



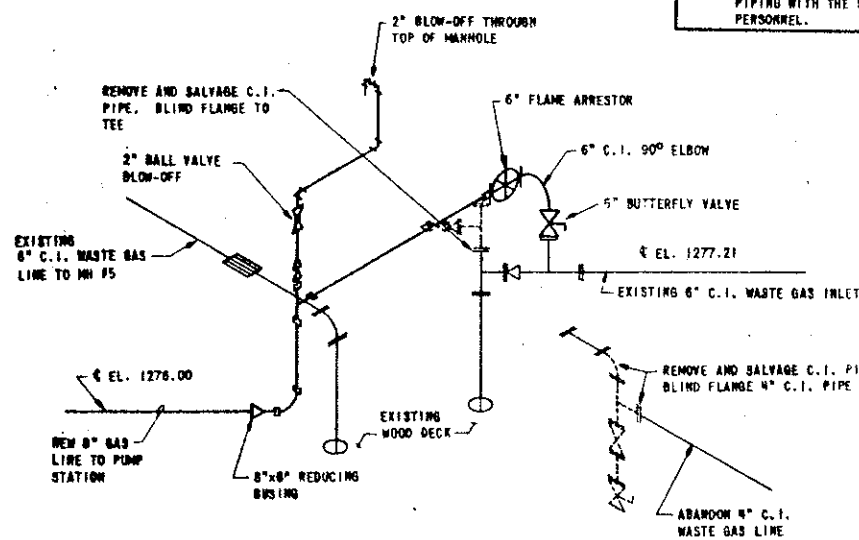
ENLARGED BUILDING PIPING ENTRANCE PLAN

(REFER TO SHEET 105) SCALE: 1/4" = 1'-0"

RICHITA, KANSAS PLANT NO. 1 PUMPING STATION FUEL OIL STORAGE TANK AND MISCELLANEOUS DETAILS MECHANICAL			
ADDN OF PEA GRAVEL 18" ABOVE TANK	APR. 78	JOG	DESIGN GDS
DESIGN	DATE	BY	DATE
6530	6530	6530	6530
SHALLEY-WILSON ENGINEERS-ARCHITECTS-PLANNERS	FILE NO. 75-1011	SHEET NO. 510	OF 510

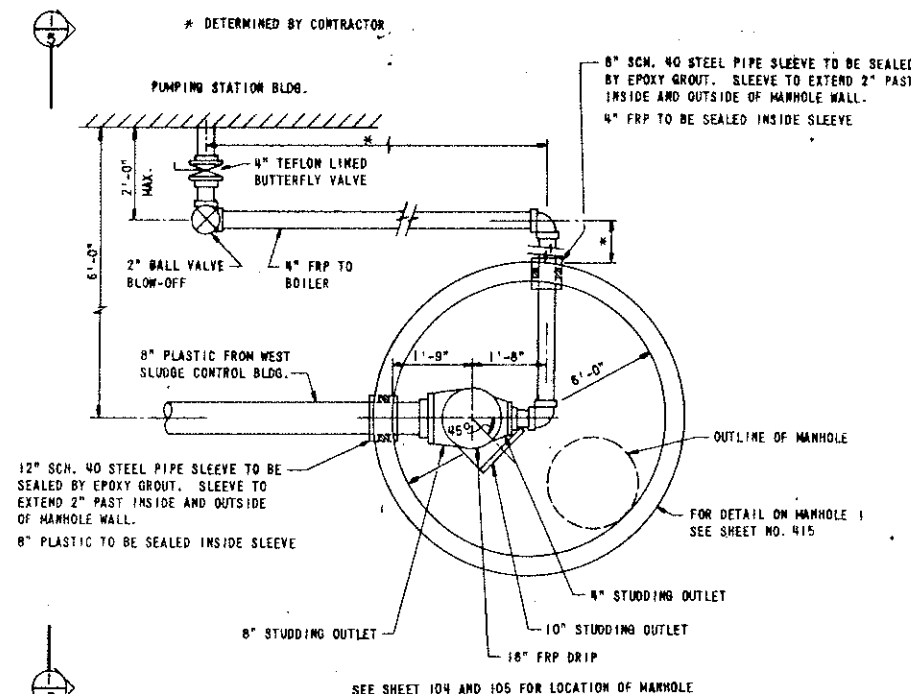


PLAN - MANHOLE NO. 4
1/2" = 1'-0"

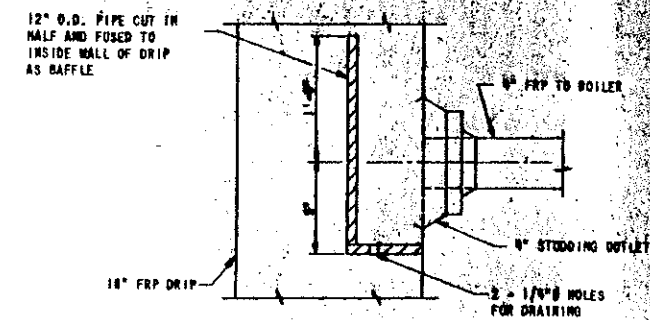


SCHEMATIC OF WASTE GAS PIPING TAKE-OFF
NO SCALE

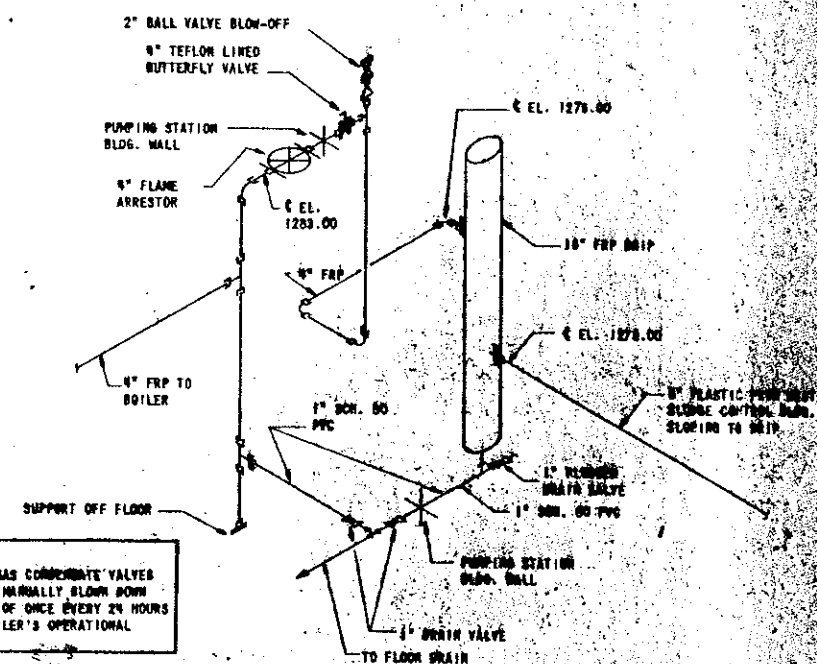
NOTE: CO-ORDINATE CONNECTION OF NEW PIPING TO EXISTING WASTE GAS PIPING WITH THE PLANT OPERATING PERSONNEL.



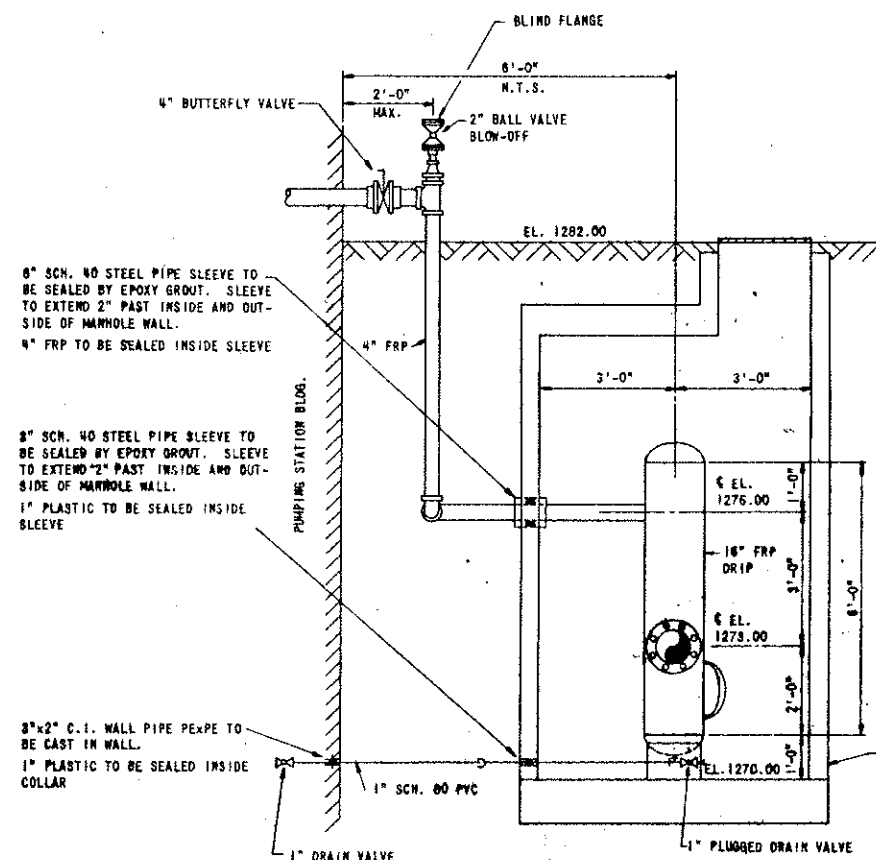
PLAN - MANHOLE H
1/2" = 1'-0"



DETAIL NO. 1
1/2" = 1'-0"



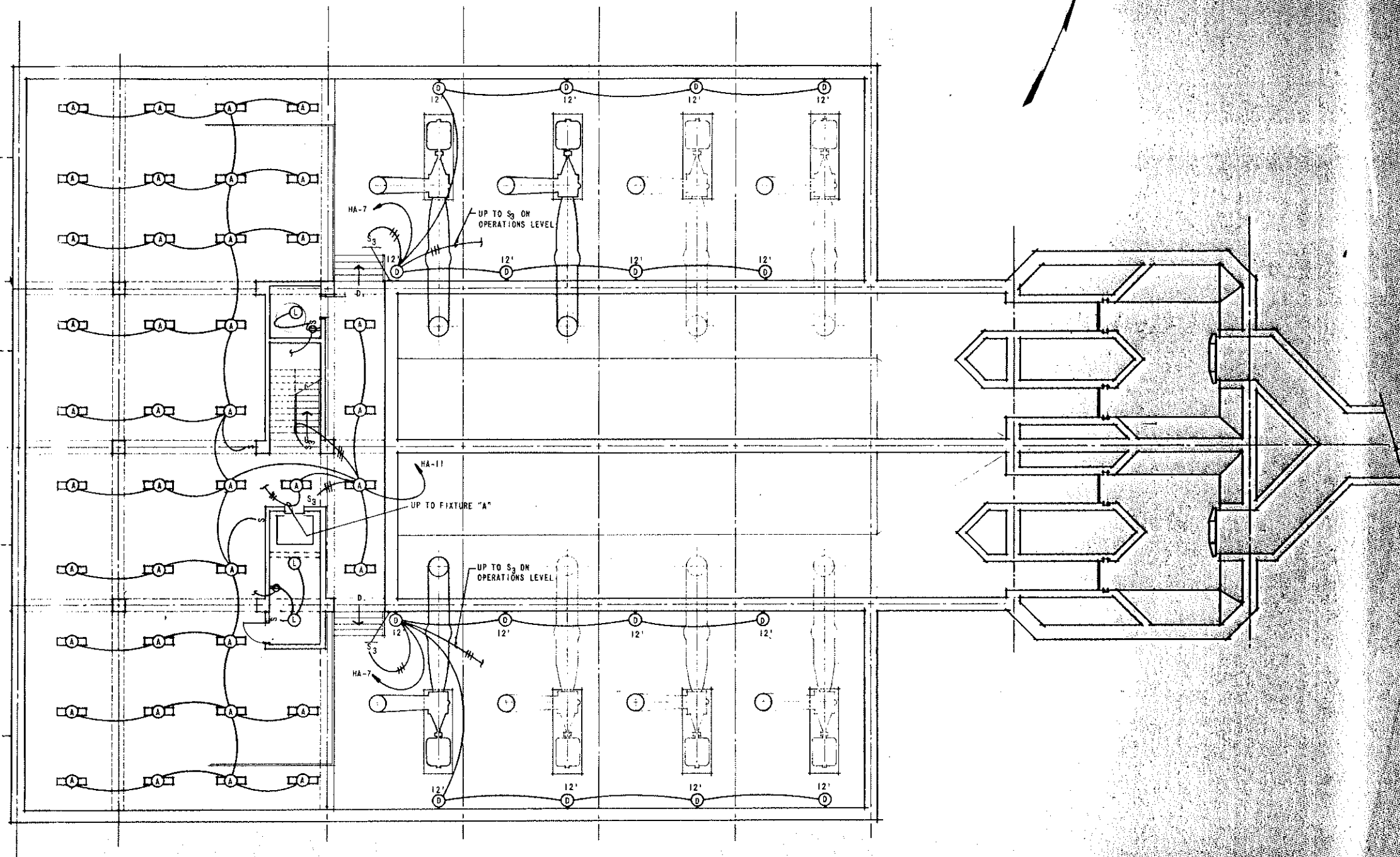
SCHEMATIC OF WASTE GAS PIPING TIE-IN
NO SCALE



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

NOTE: DIGESTER GAS CONDENSATE VALVES SHOULD BE MANUALLY BLOWN DOWN A MINIMUM OF ONCE EVERY 24 HOURS DURING BOILER'S OPERATIONAL SEASON.

WICHITA, KANSAS PLANT NO. 1 PUMPING STATION PIPING SCHEMATICS MECHANICAL			DESIGN BDS	DRAWN JMG	DATE FEB. 1979
REVISION			DATE	BY	
FILE NO. 75-1002			SHEET NO. 879 OF 879		



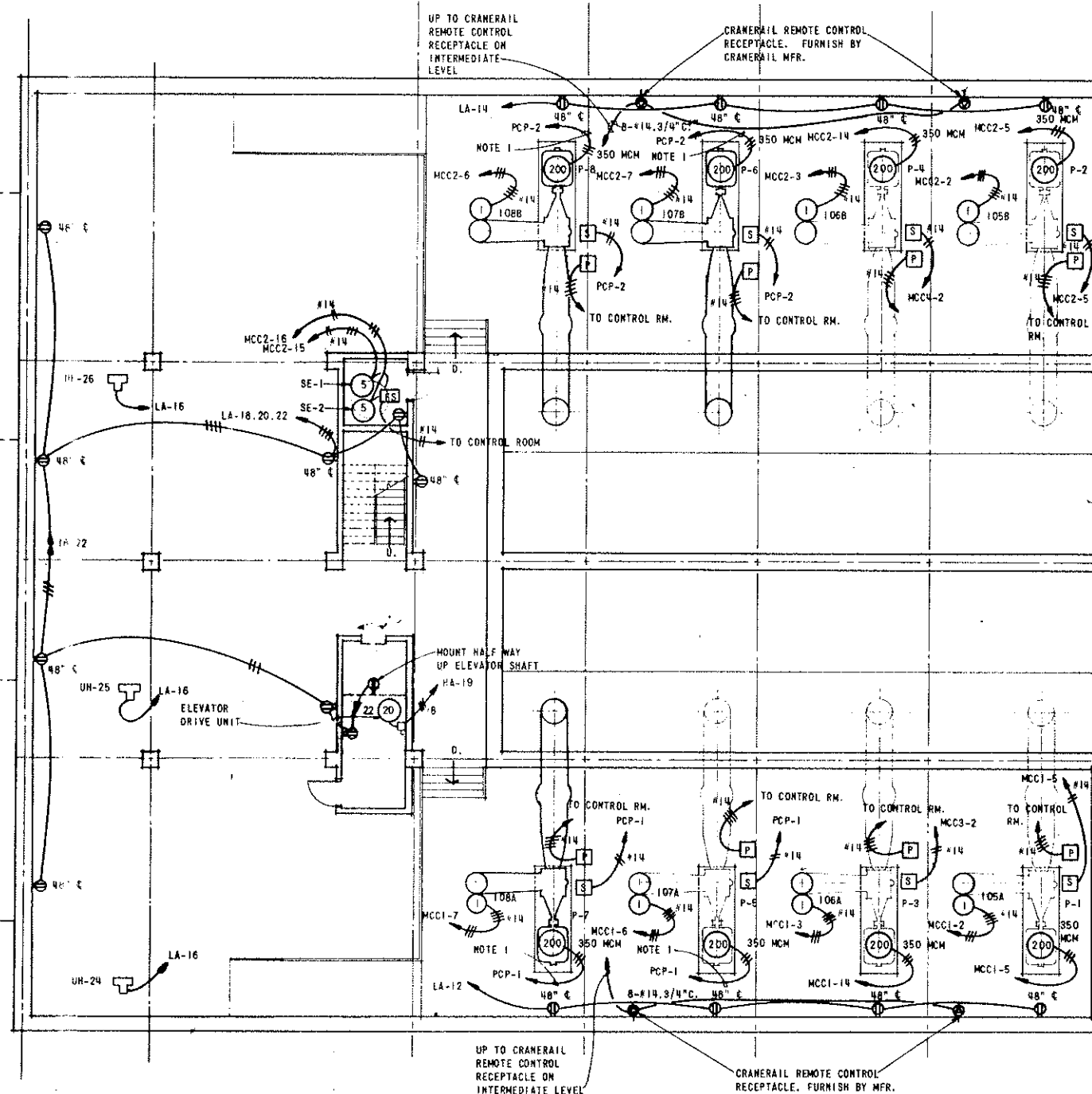
PUMP LEVEL FLOOR PLAN
1/8" = 1'-0"

REVISION	DATE	BY

WICHITA, KANSAS PLANT NO. 1 PUMPING STATION LIGHTING - PUMP LEVEL ELECTRICAL		DATE FEB. 1978
DESIGN ALK	DRAWN WUB	FILE NO. 75-1818
 SHELLEY-WILSON ENGINEERS-ARCHITECTS-PLANNERS 2001 W. 10th St. - Wichita, Kansas 67203		SHEET NO. 301 OF 813

NOTE:

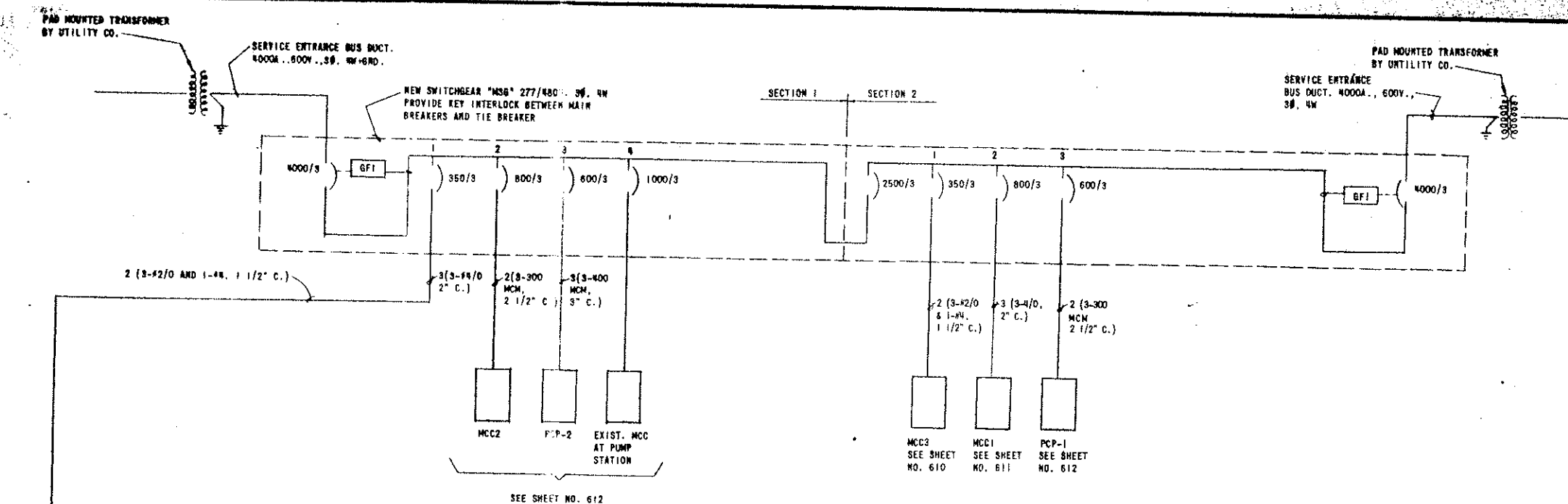
1. ADD 1-214 FWH/100W/100W/100W IN PUMP MOTOR TO PUMP CONTROL PANEL.



PUMP LEVEL FLOOR PLAN
1/8" = 1'-0"

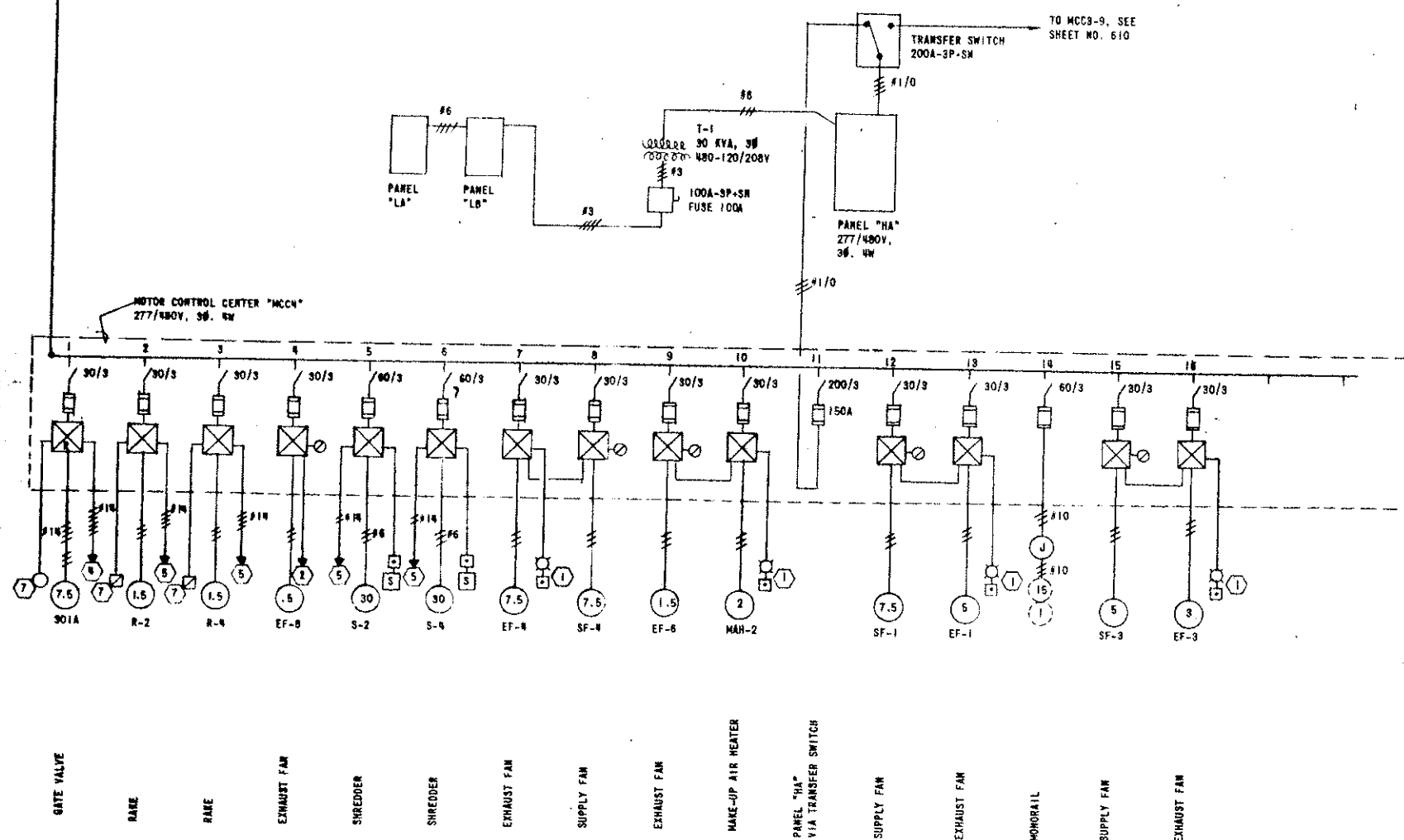
REVISION	DATE	BY

WICHITA, KANSAS		PLANT NO. 1 PUMPING STATION		POWER PUMP LEVEL		ELECTRICAL	
DESIGN	DATE	BY	DATE	BY	DATE	BY	DATE
ALM	1974						
				SHelly-WILSON ENGINEERING ARCHITECTS-PLANNERS 2411 LINDSEY ST. - KANSAS CITY, MO. 64111			
FILE NO. 71-1001 SHEET NO. 111 OF 112				DATE: FEB 1974 FILE NO. 71-1001 SHEET NO. 111 OF 112			



NOTES:

- ① INSTALL IN CONTROL PANEL.
- ② TO MCH-1 STARTER MCH-1.
- ③ TO EF-3 STARTER MCH-1.
- ④ TO CONTROL ROOM, 2-Ø/19 FROM CHILL VALVE 2-Ø/19 FROM AUXILIARY CONTACT.
- ⑤ TO CONTROL ROOM, 2-Ø/19 FROM CHILL VALVE 2-Ø/19 FROM AUXILIARY CONTACT.
- ⑥ TO CONTROL ROOM, 2-Ø/19 FROM AUXILIARY CONTACT.
- ⑦ FURNISH WITH EQUIPMENT.
- ⑧ CHARNELL REMOTE CONTROL RECEPTACLES IN 6" SQUARE, 8" DEEP BOXES, RECEPTACLES FURNISHED BY MANUFACTURER.
- ⑨ TO CONTROL ROOM, 2-Ø/19 FROM HIGH LEVEL CONTACT.



GATE VALVE

R-2

R-4

EXHAUST FAN

SHREDDER

SHREDDER

EXHAUST FAN

SUPPLY FAN

EXHAUST FAN

MAKE-UP AIR HEATER

PANEL "HA" VIA TRANSFER SWITCH

SUPPLY FAN

EXHAUST FAN

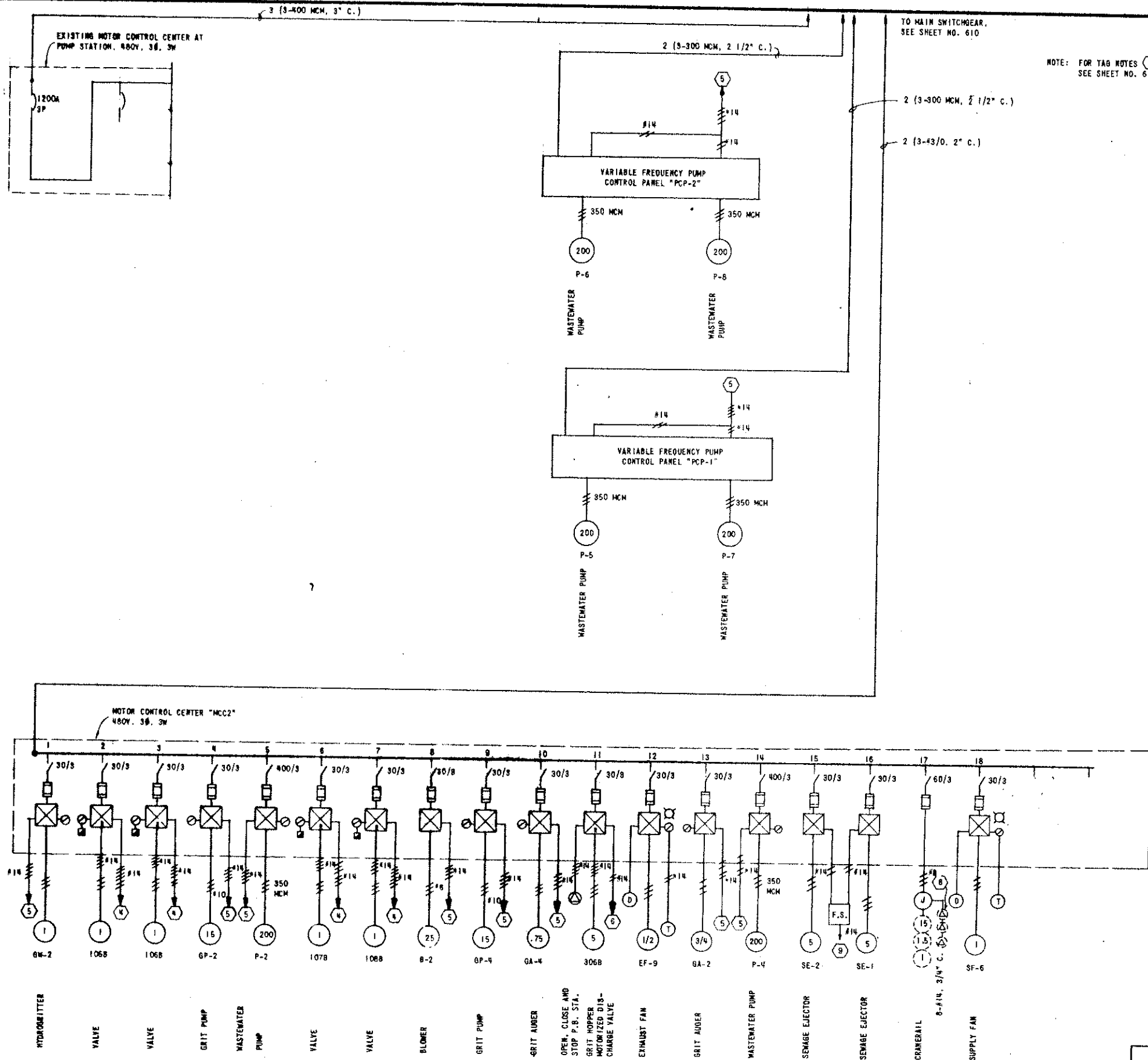
MONORAIL

SUPPLY FAN

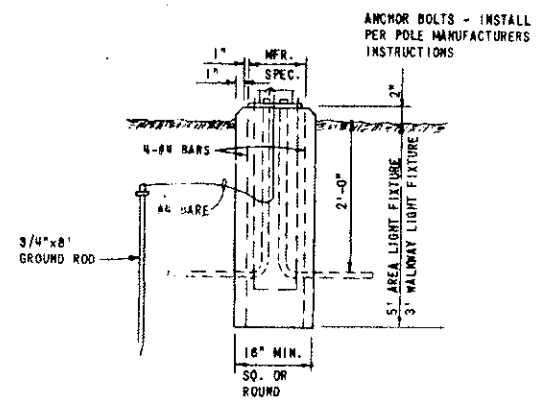
EXHAUST FAN

REVISION	DATE	BY

WILSON ENGINEERING PLANT NO. 1 PUMPING STATION POWER ONE LINE DIAGRAM ELECTRICAL		DATE: FEB. 1974 FILE NO. 15-0011 SHEET NO. 612
DESIGNED BY: [Signature] CHECKED BY: [Signature]	APPROVED BY: [Signature]	WILSON ENGINEERING



VICTORIA, KANSAS PLANT NO. 1 PUMPING STATION POWER LINE DIAGRAM ELECTRICAL	
DESIGN CRM	DRAWN JFB
DATE FEB 1971	FILE NO. 70-1014
SHEET NO. 211	
OF 211	



LIGHT POLE BASE DETAIL
NO SCALE

FIXTURE SCHEDULE

MARK	LAMPS			MOUNTING		DESCRIPTION AND MANUFACTURER OR EQUAL
	TYPE	NO.	WATTS	TYPE	HEIGHT	
A	FROOM	2	40	SURFACE	CEILING	WESTINGHOUSE FEBING
B	H37RC-250/D1	1	250	SURFACE	CEILING	MARCO HSPS-TN06
C	FROOM	2	40	SURFACE	CEILING	LITHONIA EJA 240
D	H39RC-175/D1	1	175	SURFACE	AS NOTED ON PLANS	LARGEMARK J8 1521 COLORED STATUARY BRONZE
E	FROOM	2	40	FLUSH	CEILING	LITHONIA 208 240 A12
F	H39RC-175/D1	1	175	PENDANT	2' BELOW CEILING	MARCO HSPS-TN07
G	100A	1	100	SURFACE	CEILING	PRECALITE 8813
H	H39RC-175/D1	1	175	SURFACE	AS NOTED ON PLANS	LIGHTOLIER HOUZANZ BRONZE COLOR
I	FROOM	2	40	PENDANT	8' BELOW CEILING	WESTINGHOUSE FEBING
L	60A	1	60	SURFACE	CEILING	PORCELAIN KEYLESS OUTLET
M	FROOM	1	40	SURFACE	SEE SIGN DETAIL SHEET NO. 216	LITHONIA UN240 WITH COLD WEATHER BALLAST
N	H01A-100/D1	1	100	POST	2'-4" ABOVE GRADE	LIGHTOLIER D045327
O	H39RC-175/D1	1	175	SURFACE	AS NOTED ON PLANS	LARGEMARK J81521 COLORED STATUARY BRONZE
P	H37RC-250/D1	1	250	POLE	24' ABOVE GRADE	LIGHTOLIER AD5542, 168 TYPE III AND D65217 POLE

SEE SHEET NO. 105 FOR LOCATION OF AREA LIGHT FIXTURES M, N AND P

PANELBOARD "LB" SURFACE MOUNTED EMD = 26.9 KVA
3Ø, 4W, 120/208V, 225 MAINS, MLO

LOAD	LTO	REC	BKR	CTY	CTY	BKR	LTO	REC	LOAD
UH-1; UH-2			15	1	A	2	15		UH-3; UH-4
UH'S - 5,6,7,8			15	3	B	4	15	X	EF-7 & LIGHTS
UH'S - 9,10,11,12			15	5	C	6	20	X	SIDEWALK LIGHTING
OPERATIONS LEVEL	8	20	7	A	8	20	8		OPERATIONS LEVEL
OPERATIONS LEVEL	7	20	9	B	10	20	6		OPERATIONS LEVEL
E.W.C.			20	11	C	12	20	1	E.W.C.
WATER HEATER			20	13	A	14	20		GRAPHIC PANEL
OPERATIONS LEVEL	6	20	15	B	16	20			GRAPHIC PANEL
SF-7			15	17	C	18	20	6	OPERATION FLOOR
SPACE			20	19	A	20	20		SPACE
SPARE			-	21	B	22	20		SPACE
SPARE			-	23	C	24	20		SPACE
SPACE					A				
SPACE					B	26	60		PANEL "LA"
					C				

PANELBOARD "HA" SURFACE MOUNTED EMD = 82.6 KVA
3Ø, 4W, 277/480V, 225 MAINS, MLO

LOAD	LTO	REC	BKR	CTY	CTY	BKR	LTO	REC	LOAD
OPERATIONS LEVEL	X		20	1	A	2	30	X	OPERATIONS LEVEL
OPERATIONS LEVEL	X		20	3	B	4	20	X	OPERATIONS LEVEL
OPERATIONS LEVEL	X		20	5	C	6	20	X	OPERATIONS LEVEL
PUMP LEVEL	X		20	7	A	8	20	X	INTERMEDIATE LEVEL
SPARE			20	9	B	10	20	X	INTERMEDIATE LEVEL
PUMP LEVEL	X		20	11	C	12	20		SPARE
EXTERIOR LIGHTING	X		20	13	A	14	20		SPARE
AREA LIGHTING	X		20	15	B	16	-		SPACE
SPARE			20	17	C	18	-		SPACE
ELEVATOR			60	19	B	20	50		TRANSFORMER T-1

PANELBOARD "LA" SURFACE MOUNTED EMD = 10.9 KVA
3Ø, 4W, 120/208V, 100 MAINS, MLO

LOAD	LTO	REC	BKR	CTY	CTY	BKR	LTO	REC	LOAD
UH-13, UH-14, UH-15			15	1	A	2	15		UH-16, UH-17, UH-18
CONTROL AIR DRYER			15	3	B	4	15		HEAT RECOVERY WHEEL
INTERM. & OPER. LEVEL	5	20	5	C	6	15			HEAT RECOVERY WHEEL
OVERHEAD DOOR			15	7	A	8	15		HEAT RECOVERY WHEEL
OVERHEAD DOOR			15	9	B	10	20	4	MEZZANINE LEVEL
INTERMEDIATE LEVEL	4	20	11	C	12	20	4		PUMP LEVEL
INTERMEDIATE LEVEL	4	20	13	A	14	20	4		PUMP LEVEL
INTERMEDIATE LEVEL	5	20	15	B	16	15			UH-24, UH-25, UH-26
UH'S - 19,20,21,22,23			15	17	C	18	20	5	PUMP LEVEL
ELEV. RM. & SUMP RM.	X		20	19	A	20	20	5	PUMP LEVEL
SPARE			20	21	B	22	20	1	ELEVATOR
SPARE			20	23	C	24	20		SPARE

- 1" MFR. SPEC.
- 4-8 BARS
- 3/4"x8" GROUND ROD
- 2'-0"
- 5' AREA LIGHT FIXTURE
- 3' WALKWAY LIGHT FIXTURE
- 16" MIN. 50. OR ROUND
- ANCHOR BOLTS - INSTALL PER POLE MANUFACTURERS INSTRUCTIONS
- 1" MFR. SPEC.
- 4-8 BARS
- 3/4"x8" GROUND ROD
- 2'-0"
- 5' AREA LIGHT FIXTURE
- 3' WALKWAY LIGHT FIXTURE
- 16" MIN. 50. OR ROUND
- ANCHOR BOLTS - INSTALL PER POLE MANUFACTURERS INSTRUCTIONS

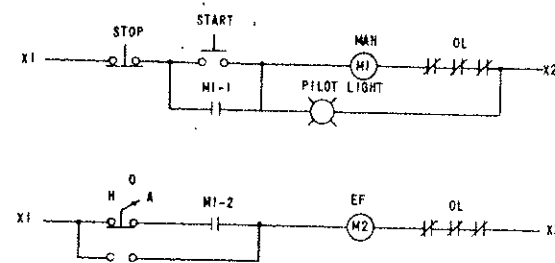
- CONDUIT AND WIRING: WATER MAINS (TYPICAL) POWER IN CONDUITS IF MORE THAN TWO; POWER AND PLATES CONDUIT SIZE IF OTHER THAN 12 AWG
- WIRE RUN TO PANEL ON MOTOR CONTROL CENTER
- FLUORESCENT FIXTURE: TYPE INDICATED
- INCANDESCENT OR MERCURY FIXTURE: TYPE INDICATED
- EXTENSION MERCURY LIGHT FIXTURE
- DUPLEX RECEPTACLE: 15A; NOM. 5-15A
- JUNCTION BOX
- SINGLE POLE SWITCH
- TWO POLE SWITCH
- THREE WAY SWITCH
- MOTORIZED DAMPER
- THERMOSTAT
- STARTER, MAGNETIC
- STARTER, REVERSING MAGNETIC
- SAFETY SWITCH
- START-STOP PUSHBUTTON STATION, L INDICATES LOCKOUT ON STOP
- OPEN-CLOSE PUSHBUTTON STATION
- MANUAL STOP-AUTOMATIC BUTTON
- OVER-CLOSE-STOP SWITCH
- MAN-OFF-AUTO SWITCH
- MOTOR, HP INDICATED
- FILW LIGHT
- FLOAT SWITCH WITH ALTERNATOR AND HIGH LEVEL ALARM
- SEAL WATER SOLENOID VALVE
- SEAL WATER PRESSURE INDICATOR
- LEVEL TRANSDUCER
- ELECTRIC WATER COOLER

WORTH, KANSAS
PLANT NO. 1 PUMP STATION
LEGEND, SCHEDULES AND STANDARDS
ELECTRICAL

DESIGN	CHK	DATE
ALK	CJM	FEB 1966

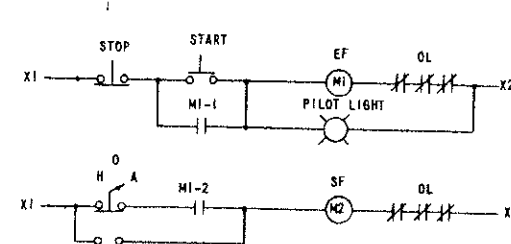
FILE #

REVISION	DATE	BY



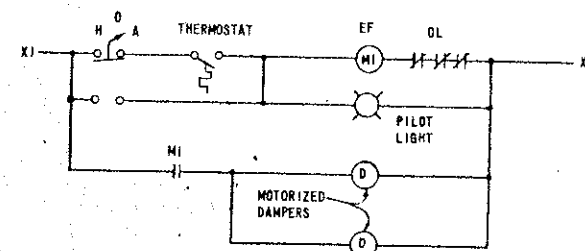
MAKE-UP AIR HEATER AND EXHAUST FAN CONTROL DIAGRAM

TYPICAL FOR MAH-1 AND EF-8 AND MAH-2 AND EF-6.
LOCATE START-STOP STATIONS WITH PILOT LIGHT IN CONTROL ROOM.
LOCATE HAND-OFF-AUTO SWITCH IN EXHAUST FAN STARTERS.



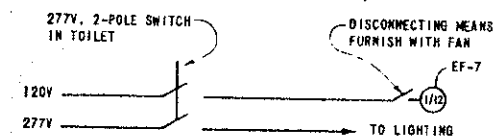
EXHAUST FAN AND SUPPLY FAN CONTROL DIAGRAM

TYPICAL FOR EF-1 AND SF-1, EF-2 AND SF-2, EF-3 AND SF-3, EF-4 AND SF-4, EF-5 AND SF-5.
LOCATE HAND-OFF-AUTO SWITCH IN SUPPLY FAN STARTER.
LOCATE START-STOP STATION WITH PILOT LIGHT IN CONTROL PANEL IN CONTROL ROOM.

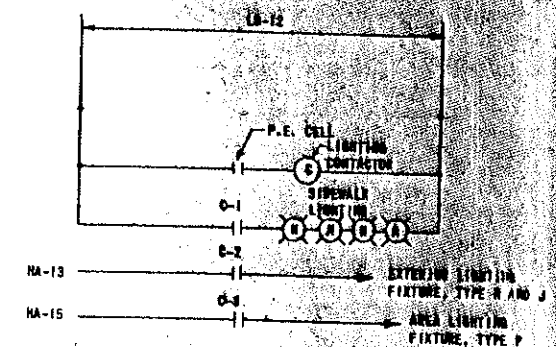


EXHAUST FAN EF-9 AND EF-10 CONTROL DIAGRAM

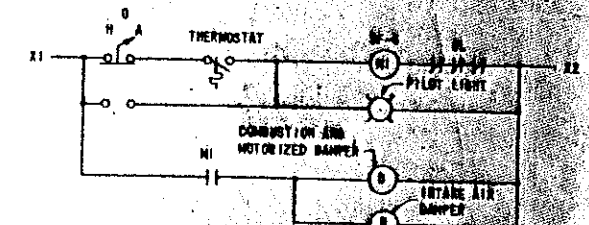
LOCATE HAND-OFF-AUTO SWITCH AND PILOT LIGHT IN STARTER.
LOCATE THERMOSTAT AS SHOWN ON PLANS.



EXHAUST FAN NO. 7 CONTROL DIAGRAM

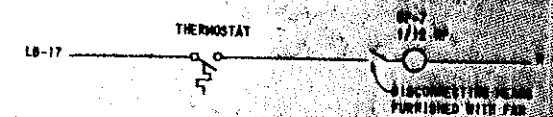


EXTERIOR LIGHTING CONTROL DIAGRAM



SUPPLY FAN NO. 6 AND COMBUSTION AIR MOTORIZED DAMPER CONTROL DIAGRAM

LOCATE HAND-OFF-AUTO SWITCH WITH PILOT LIGHT IN STARTER.
LOCATE THERMOSTAT AS SHOWN ON PLANS.



SUPPLY FAN NO. 7 CONTROL DIAGRAM

LOCATE THERMOSTAT AS SHOWN ON PLANS.

WICHITA, KANSAS			
PLANT NO. 1 PUMPING STATION			
DIAGRAMS AND DETAILS			
ELECTRICAL			
DESIGN	BY	DATE	FILE NO.
ALK	CH		75-100
REVISION			SHEET NO. 111
DATE			OF 111