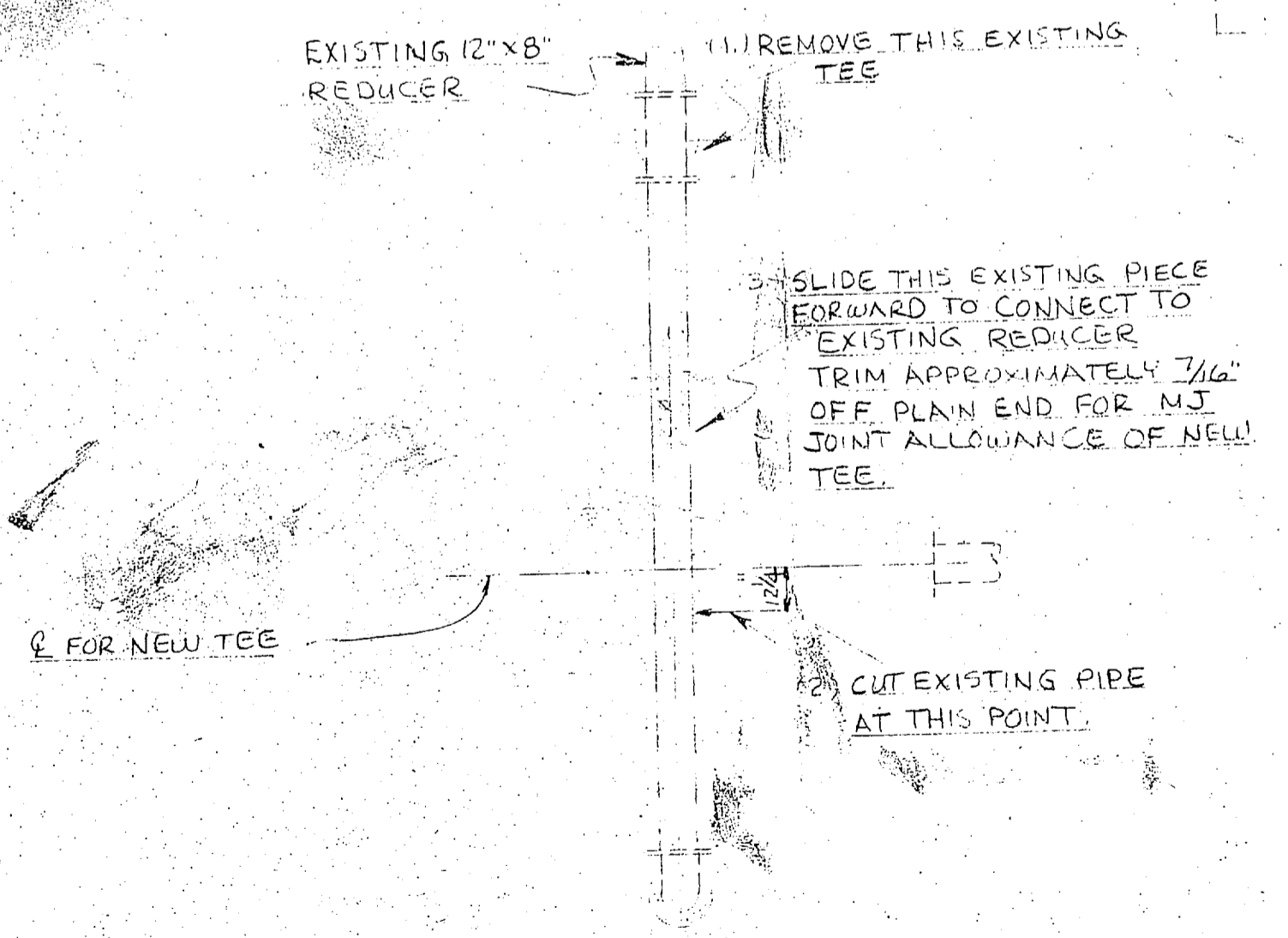


✓	A-1
✓	A-2
✓	A-3
✓	A-5
✓	A-6
✓	A-7
✓	A-8

ENDS ASSUMED TO BE PLUGGED WITH CONCRETE

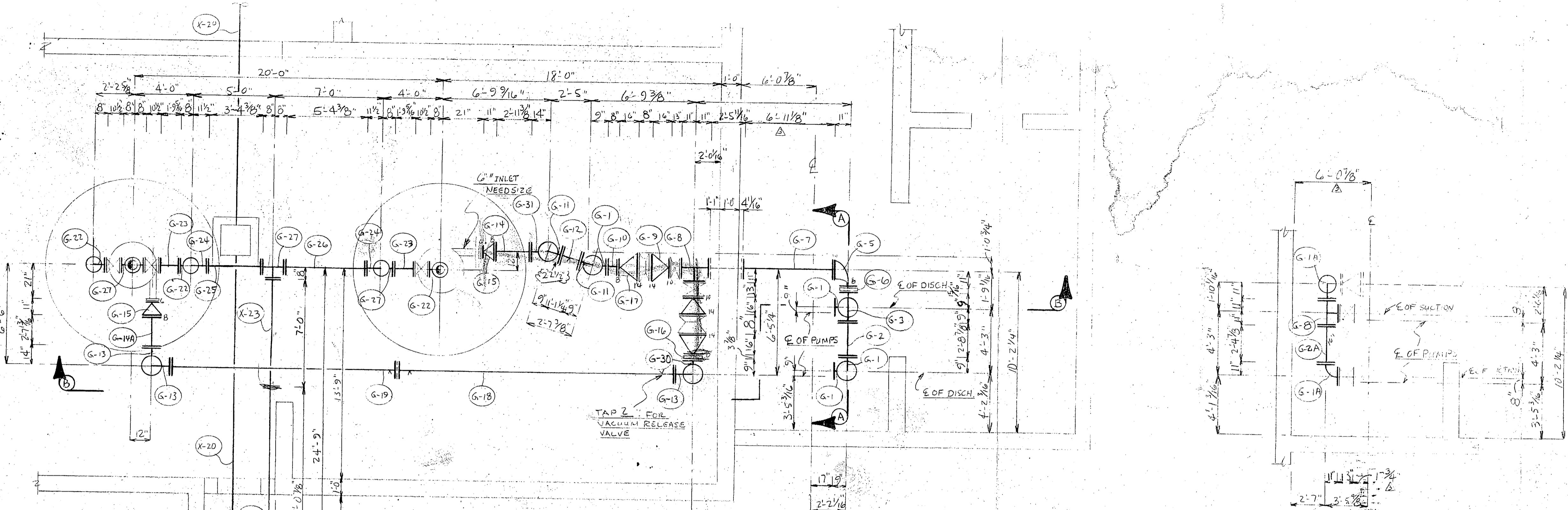
PLAN



PARTIAL PLAN OF EXISTING PIPING

THIS DRAWING IS A SERVICE TO THE CUSTOMER AS RENDERED BY THE ENGINEER. THE EXACT ITEMS OF PIPE AND FITTINGS NEEDED, IT CANNOT BE GUARANTEED OR CORRECTNESS. IT IS THE RESPONSIBILITY OF THE PURCHASER TO OBTAIN THE CORRECT RECEIPT OF SIZED HOLES AND TO BE REVISION DRAWING.





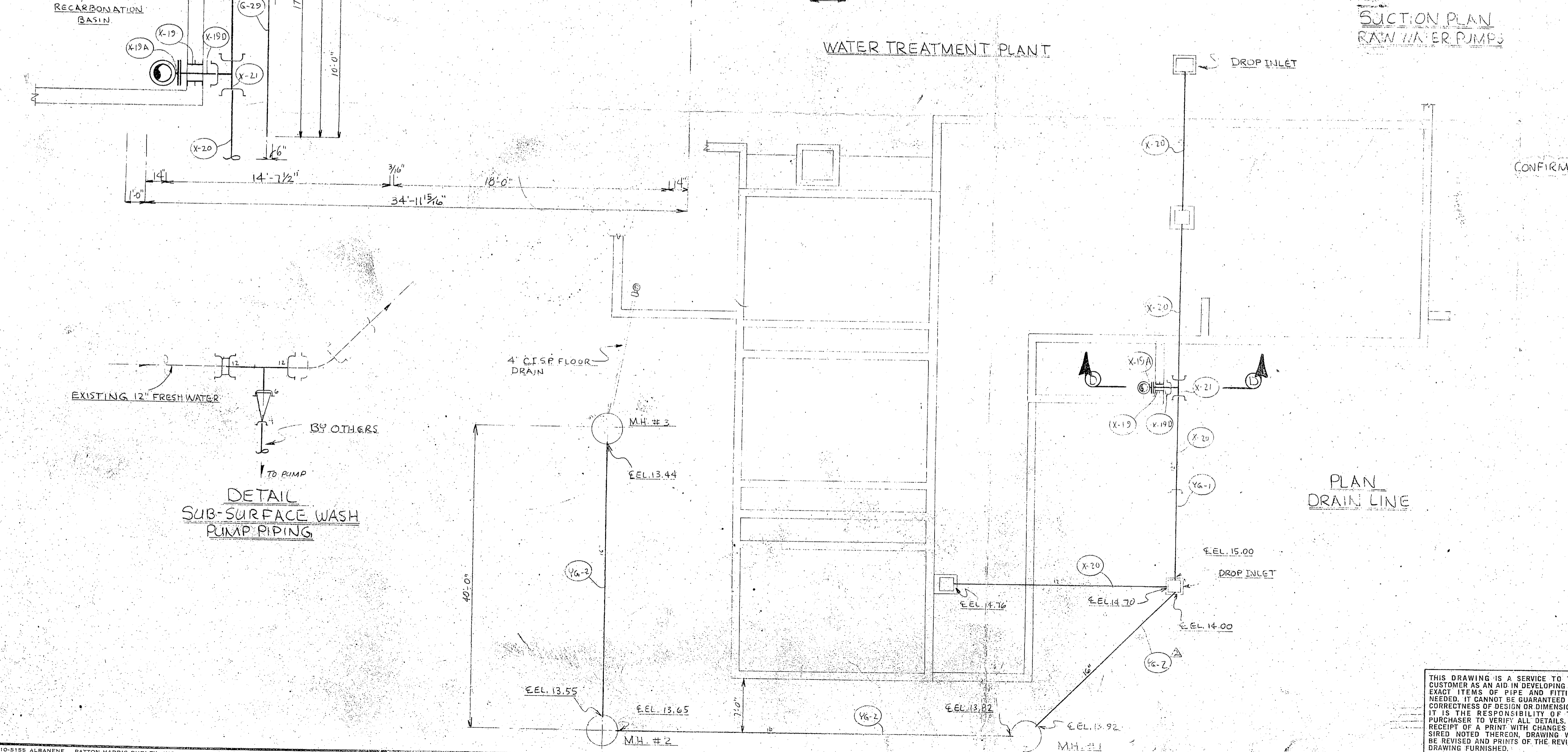
WATER TREATMENT PLANT

SUCTION PLAN
RAW WATER PUMPS

ITEM	QTY	DESCRIPTION	NOTE
G-1	4	8" FLG. 90° ELL. 9" CF	
G-2	1	8" X 2" 1/2" LG. FF PIPE	
G-3	1	3" FLG. TEE. 8" CF	
G-5	1	10" X 3" FLG. 90° ELL. 11" CF	
G-6	1	8" FLG. FILLER. 0 1/2" THICK	
G-7	1	10" X 6 1/2" LG. FF PIPE	
G-8	2	10" FLG. TEE. 11" CF	
G-9	2	14" X 10" FLG. REDUCER. 16" LG	
G-10	1	10" X 0" - 8" LG. FF PIPE	
G-11	2	8" FLG. 90° ELL. 9" CF. DRILL 1/8" ON 9"	
G-12	1	8" X 1" 1/4" LG. FF PIPE. TAP 1/2" ONE 3/16" IN NET	
G-13	3	8" FLG. L.R. 90° ELL. 14" CF	
G-14	1	8" X 2" 1/2" LG. FF PIPE	
G-15	2	8" X 6" FLG. REDUCER. 11" LG.	
G-16	1	8" FLG. FILLER. 3/8" THICK	
G-17	2	14" X 8" FLG. REDUCER. 16" LG.	
G-18	1	LEG BELOW	
G-19	1	8" X 14" 7 1/2" LG. FF PIPE. TAP 1/2" ONE 3/16" FF	
G-22	3	6" FLG. 90° ELL. 8" CF	
G-23	2	6" X 1" 9 1/2" LG. FF PIPE	
G-24	2	6" FLG. L.R. 90° ELL. 11 1/2" CF	
G-25	1	6" X 3" 4 3/8" LG. FF PIPE	
G-26	1	6" X 5" 4 3/8" LG. FF PIPE	
G-27	3	6" FLG. TEE. 8" CF	
G-29	1	6" X 11" 0 1/8" LG. F PE PIPE. NOGA	
G-30	1	8" X 18" 0 LG. FF PIPE @ 2 TAPS ON SAME SIDE. TAP 1/2" 8" F R F F. TAP 2" 0 1/8" FROM OTHER FLG. D.I.	
YARD PIPING			
DRAIN			
YG-1	2	12" X 20" 1" LL MJ PIPE	
YG-2	7	16" X 20" 1 1/2" MJ PIPE	
SUB-SURFACE WASH SUCTION (NOT SHOWN)			
TAG "SUB-SURFACE WASH WATER PLANT"			
X-23	1	12" MJ SLEEVE. 7 1/2" LG.	
G-1A	1	12" X 6" MJ PE MJ TEE	
G-2A	1	6" X 4" MJ PE REDUCER. SEMJ.	
G-3A	1	4" X 20" 1" LL MJ PIPE	
G-4A	1	4" MJ 90° ELL	
G-5A	1	4" X 4" 0" LG. F PE PIPE	
X-23	1	6" X 7' 0" LG. FF PIPE	
G-2A	1	10" X 2" 4 1/2" LG. FF PIPE. TAP 1/2" ONE 1/2" 1/16" FROM FACE OF ELL	
G-1A	2	10" FLG. 90° ELL. 11" CF	
G-30	1	8" FLG. 90° BASE ELL. 9" CF. F I D BASE	
G-14A	1	8" X 2" 7 1/2" LG. FF PIPE	
G-31	1	8" FLG. L.R. 90° BASE ELL. 14" CF. F I D BASE	

CONFIRM

PLAN
DRAIN LINE



DETAIL
SUB-SURFACE WASH
PUMP PIPING

THIS DRAWING IS A SERVICE TO THE CUSTOMER AS AN AID IN DEVELOPING THE EXACT ITEMS OF PIPE AND FITTINGS NEEDED. IT CANNOT BE GUARANTEED FOR CORRECTNESS OF DESIGN OR DIMENSIONS. IT IS THE RESPONSIBILITY OF THE PURCHASER TO VERIFY ALL DETAILS. ON RECEIPT OF A PRINT WITH CHANGES DESIRED NOTED THEREON, DRAWING WILL BE REVISED AND PRINTS OF THE REVISED DRAWING FURNISHED.

NOTE ALL SECTIONS SHOWN ON ES-649-H.
MATERIALS ON ORDER.

JOINT ALLOWANCE
FLG. 1/2" MJ 1/4" HORIZONTAL ONLY

USE WITH ENGINEER'S SHEETS 15332

AMERICAN CAST IRON PIPE COMPANY
P. O. BOX 2727 BIRMINGHAM, ALABAMA, 35202

FOR PEABODY PETERSEN CO.
SUBJECT MCAS (HELICOPTER) UTILITIES EXP.
DETAIL WATER TREATMENT PLANT- PLAN

JACKSONVILLE, NC.

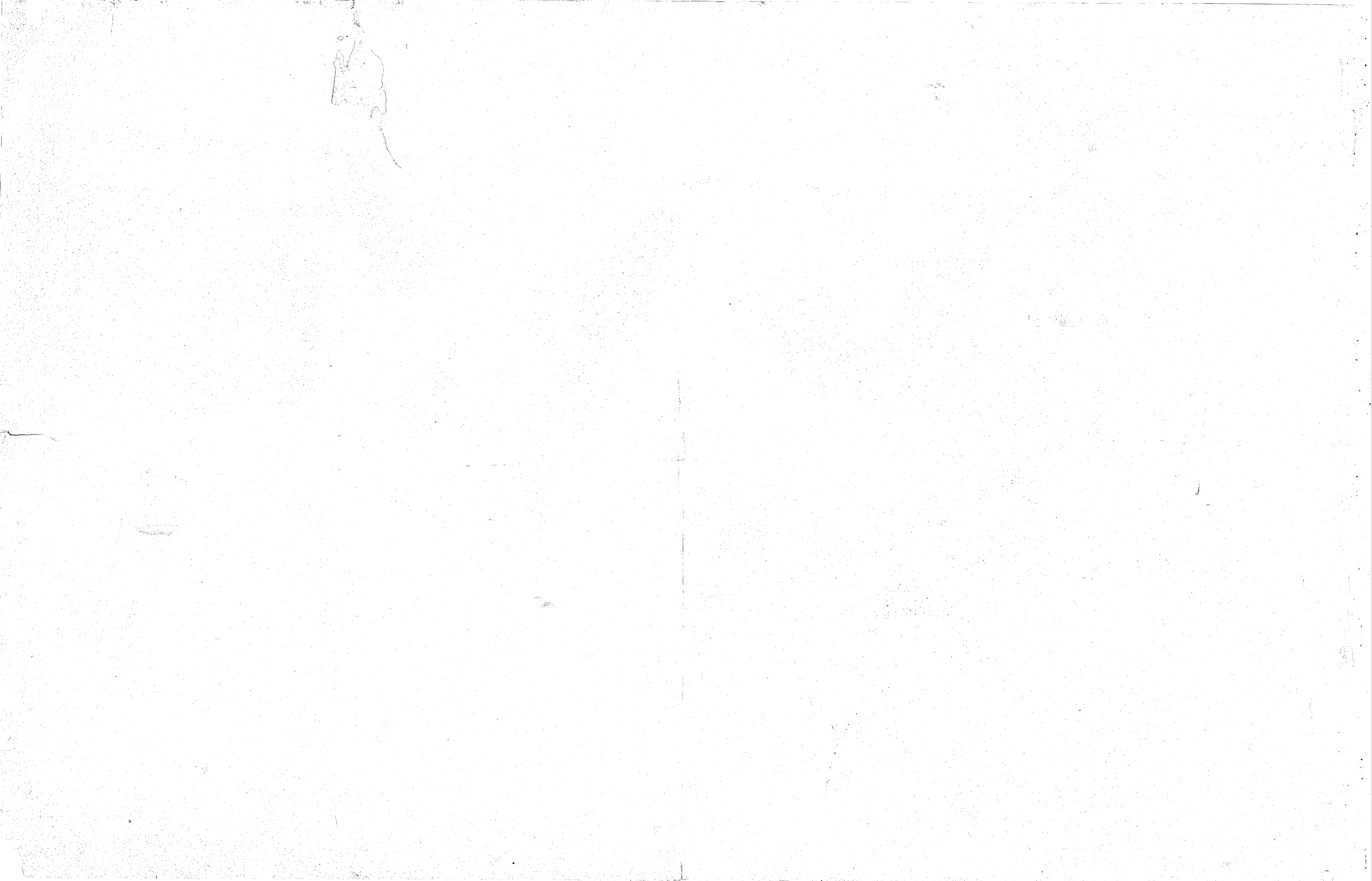
MADE IN U.S.A. - Cast Iron & Ductile Iron

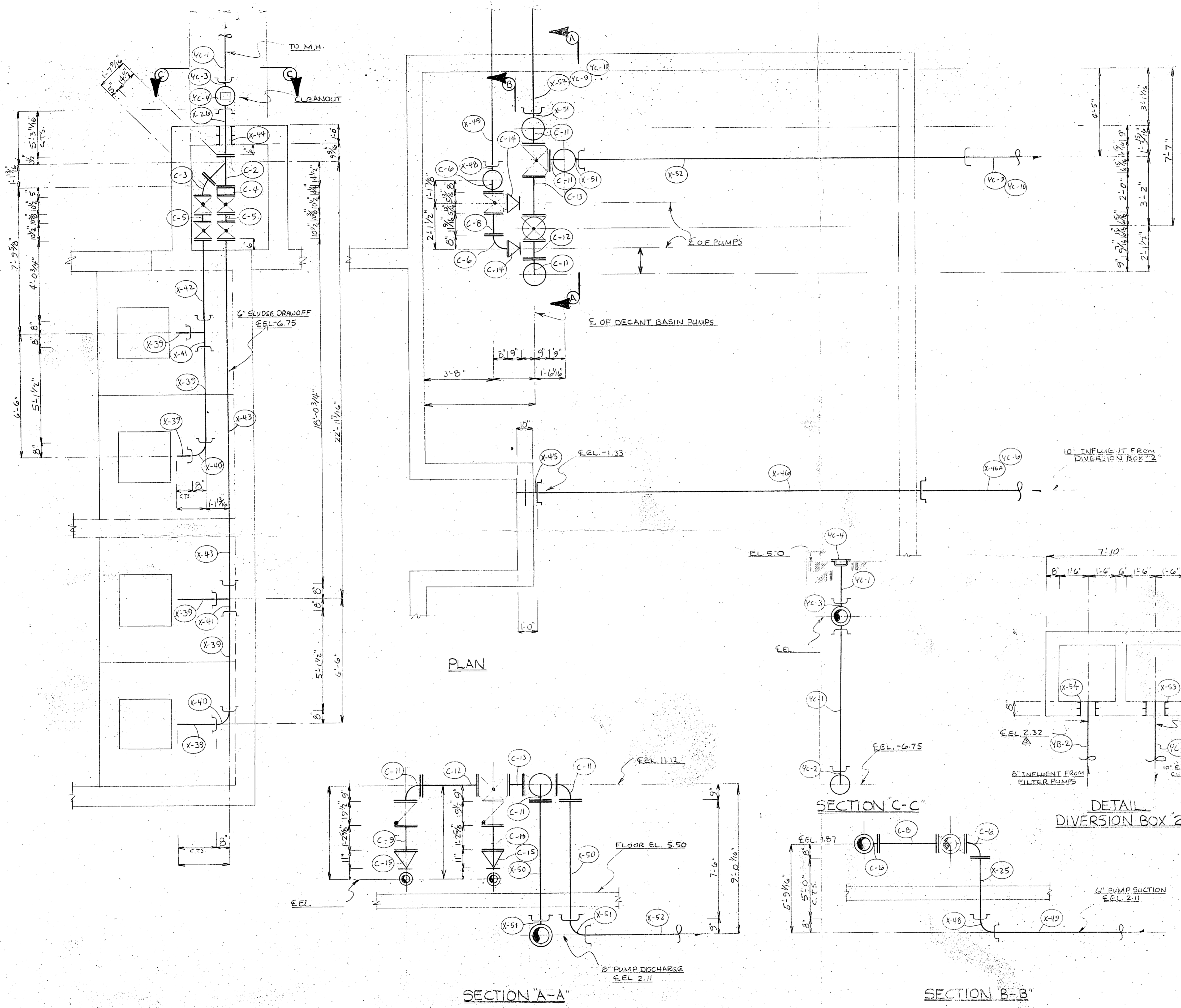
Standard and special coating, Enameling - 1/2" & 3/4" diameter cement lining and special lining

American Spring Valves and Hydrants

CHECKED	REV. 5/14/75	REV.	SCALE
REV. 5/14/75	REV. 5/14/75	REV.	NTS
REV. 10/24/73	REV.	REV.	ES-649-H

SHEET 7 OF 15





USE IN PLACE OF MARKS
 E-15 (SEE EG. 49, E)

MARK	NO.	DESCRIPTION	QTY.
FLANGED FITTINGS			
IN CONCRETE MATERIALS			
✓	X-39	1 6" X 20'-0" LL MJ PIPE	22
✓	X-40	2 6" MJ 90° ELL	
✓	X-41	2 6" MJ TEE	
✓	X-42	1 6" X 4'-0" LG. FPE PIPE, GAMJ	22
✓	X-43	1 6" X 18'-0" LG. FPE PIPE, GAMJ	22
✓	X-44	1 6" WALL SLEEVE 12" LG. W/C CTR.	
✓	X-45	1 10" X 1'-0" LL MJ FPE PIPE, 15" FR. PIP.	22
✓	X-46	2 10" X 20'-0" LL MJ PIPE	22
✓	X-48	1 6" MJ 90° ELL	
✓	X-49	1 6" X 20'-0" LL FST. PIPE	22
✓	X-50	2 8" X 7'-6" LG. FPE PIPE, GAMJ	22
✓	X-51	2 8" MJ 90° ELL	
✓	X-52	2 8" X 20'-0" LL FST. PIPE	
✓	X-53	1 10" WALL SLEEVE, 8" LG. W/C CTR.	
✓	X-54	1 8" WALL SLEEVE, 8" LG. W/C CTR.	
YARD PIPING			
✓	VC-1	3 6" X 20'-0" LL FST. PIPE	22
✓	VC-2	1 6" MJ 90° ELL	
✓	VC-3	1 6" MJ TEE	
✓	VC-4	1 6" MJ PLUG	
✓	VC-5	1 6" MJ 45° BEND	
✓	VC-6	2 10" X 20'-0" LL FST. PIPE	22
✓	VC-7	4 6" X 20'-0" LL FST. PIPE	22
✓	VC-8	1 6" MJ 45° BEND	
DECANT PUMP DISCHARGE			
✓	VC-9	11 8" X 20'-0" LL FST. PIPE	22
✓	VC-10	4 8" MJ 90° ELL	
✓	X-25	1 6" X 5'-0" LG. FPE PIPE	22
✓	X-26	1 6" X 5'-3" LG. FPE PIPE	22
JOINT ALLOWANCE			
FLG. 1/16" MJ 1/4" HORIZONTAL ONLY			
CTS. CUT TO SUIT IN FIELD.			
✓ MATERIALS ON ORDER.			
USE WITH ENGINEER'S SHEETS 67-69			

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AMERICAN CAST IRON PIPE COMPANY
 P. O. BOX 2727 BIRMINGHAM, ALABAMA, 35202

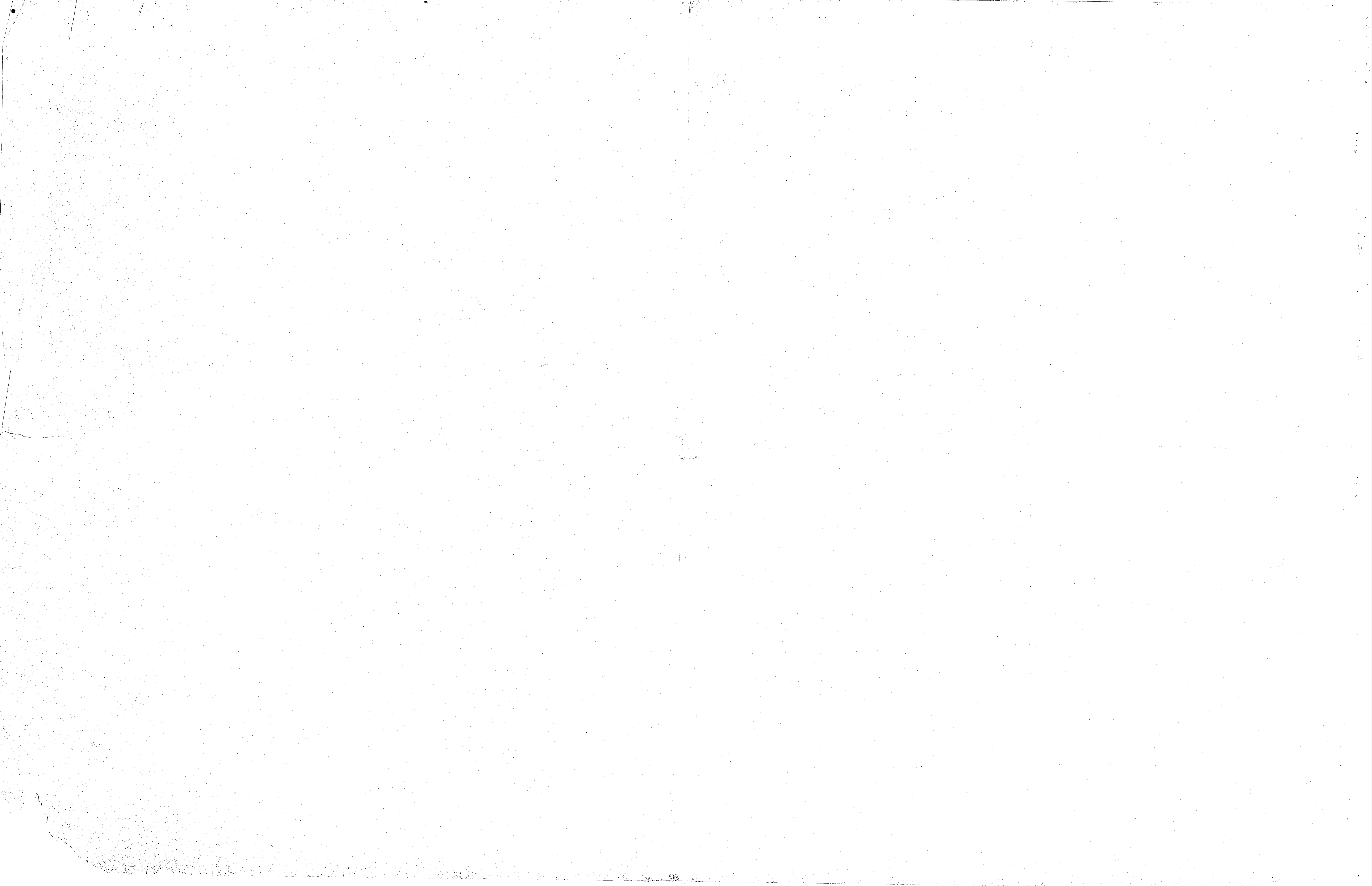
FOR PEABODY PETERSEN CO.
 SUBJECT M.C.A.S. (HELICOPTER) UTILITIES EXP.
 DETAIL SEWAGE TREATMENT PLANT - CLARIFIER
 FILTER PLAN OF SLUDGE DRAWORD
 LINES & DECANT PUMP PUMPS
 JACKSONVILLE, NC.

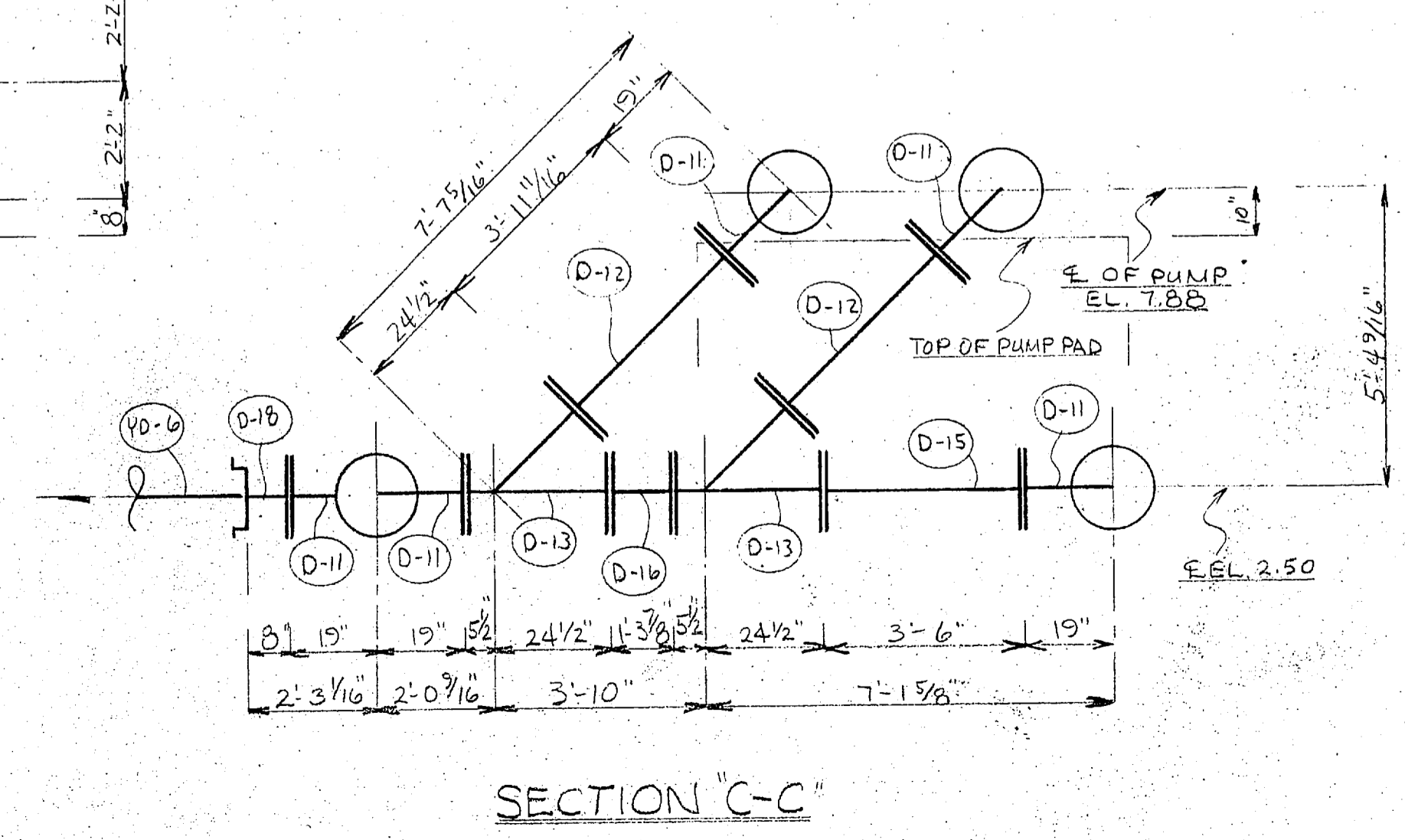
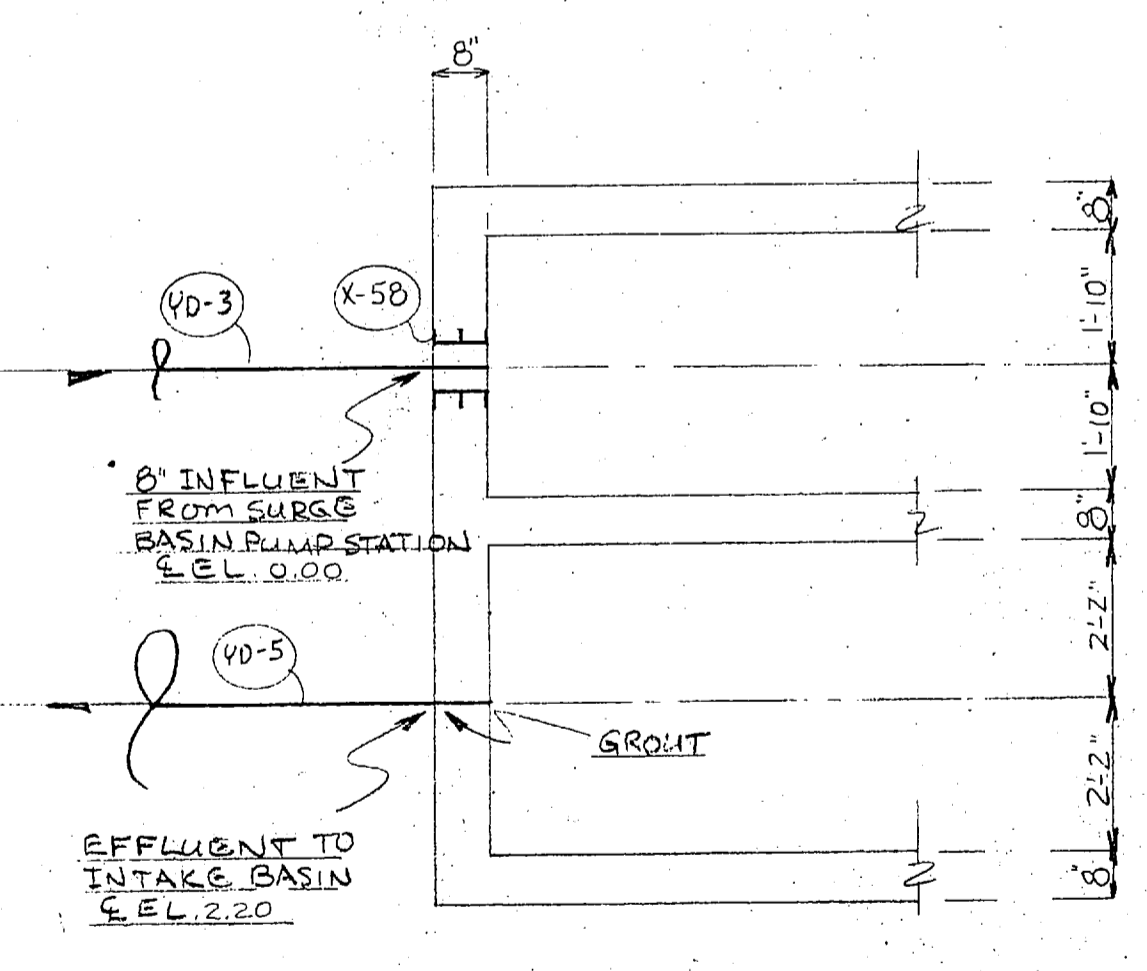
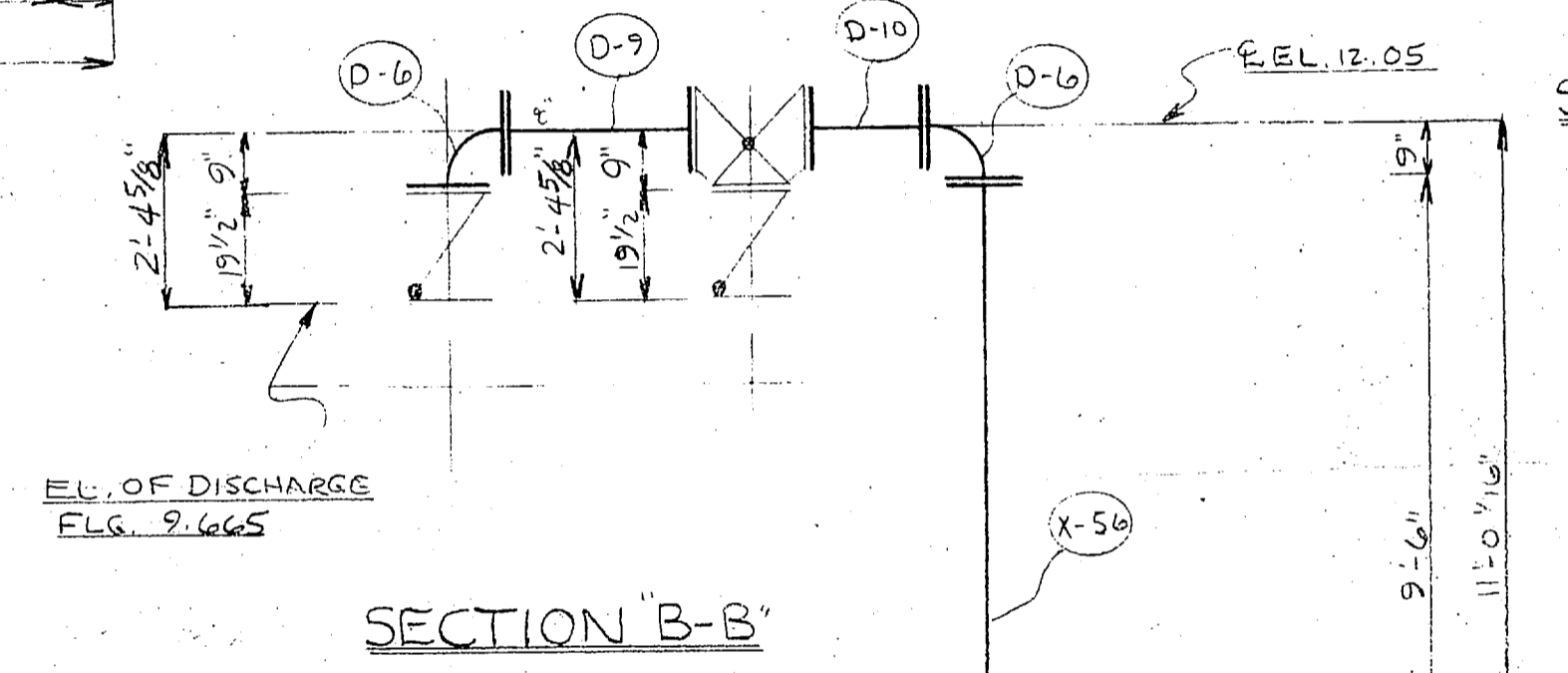
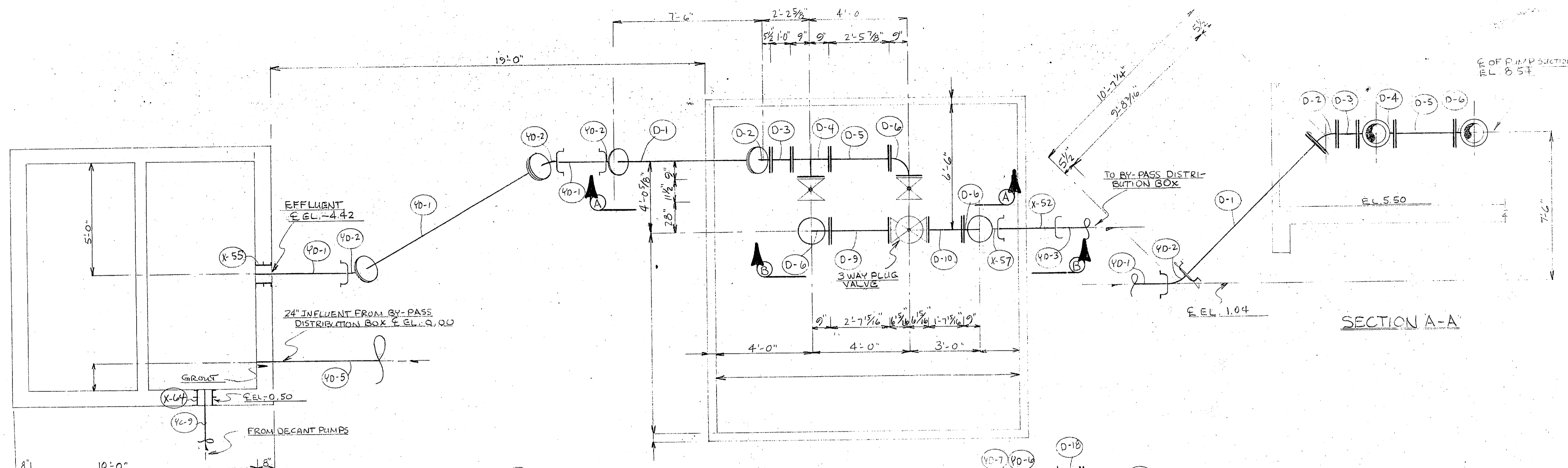
MADE 3/15/75
 CHECKED
 REV 5/8/75
 REV 5/24/75

REVISIONS
 REV 1/15/75
 REV 1/22/75
 REV 1/22/75

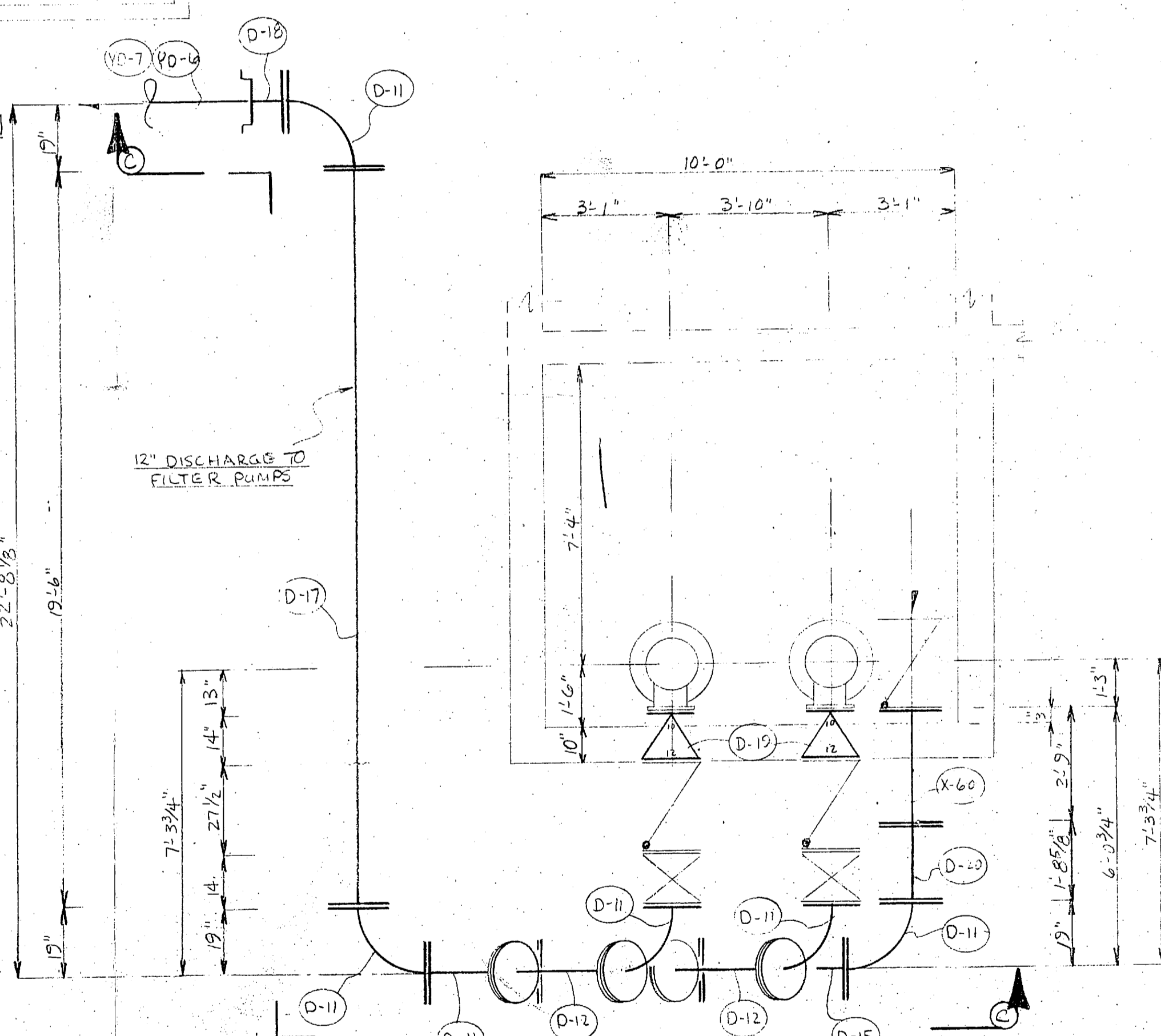
SCALE
 AS SHOWN

ES





PLAN SURGE BASIN PUMP STATION



PLAN BACKWASH PUMPS

NO.	QTY.	DESCRIPTION	REMARKS
FLANGED FITTINGS			
IN UNDER CONCRETE MATERIALS			
X-55	1	8" WALL SLEEVE 3' LG. 1/2" CTR.	
X-56	1	8" X 9'-6" LG. FPE PIPE, GAWD	
X-57	1	8" MJ 90° ELL	
X-58	1	8" WALL SLEEVE 8' LG. 1/2" CTR.	
X-60	1	12" X 2'-9" LG. FPE PIPE 1/4" FLG. FOR STUD	
X-64	1	8" WALL SLEEVE 8' LG. 1/2" CTR.	
D-1	1	8" X 9'-5 1/2" LG. FPE PIPE, GAWD	
D-2	1	8" FLG. 45° BEND 5/2" CF.	
D-3	1	8" X 1'-0" LG. FF PIPE	
D-4	1	8" FLG. TEE 5" CF.	
D-5	1	8" X 2'-5 1/2" LG. FF PIPE	
D-6	3	8" FLG. 90° ELL. 5" CF.	
D-9	1	8" X 2'-7 1/2" LG. FF PIPE	
D-10	1	8" X 1'-7 1/2" LG. FF PIPE	
D-11	5	12" FLG. L.R. 90° ELL. 1 1/2" CF.	
D-12	2	12" X 3'-11 1/4" LG. FF PIPE	
D-13	2	12" FLG. WYE 5/2" X 4 1/2" CF.	
D-15	1	12" X 3'-6" LG. FF PIPE	
D-16	1	12" X 1'-3 3/8" LG. FF PIPE	
D-17	1	12" X 19'-6" LG. FF PIPE	
D-18	1	12" X 0'-8" LL F.M.J. PIPE	
YARD PIPING - SURGE BASIN PUMP SUCTION			
V0-1	1	8" X 20'-0" LL FST. PIPE	
V0-2	3	8" MJ 45° BEND	
SURGE BASIN PUMP DISCHARGE			
V0-3	7	8" X 20'-0" LL FST. PIPE	
V0-4	2	8" MJ 45° BEND	
INTAKE BASIN INFLOW			
BACKWASH PUMP DISCHARGE			
V0-6	6	12" X 23'-1" LL FST. PIPE D.I.	
V0-7	1	12" MJ PE 90° ELL. 5" CF.	
D-19	2	12" X 10" FLG. REDUCER 1 1/4" LG.	
D-20	1	12" X 1'-8 3/8" LG. FF PIPE	

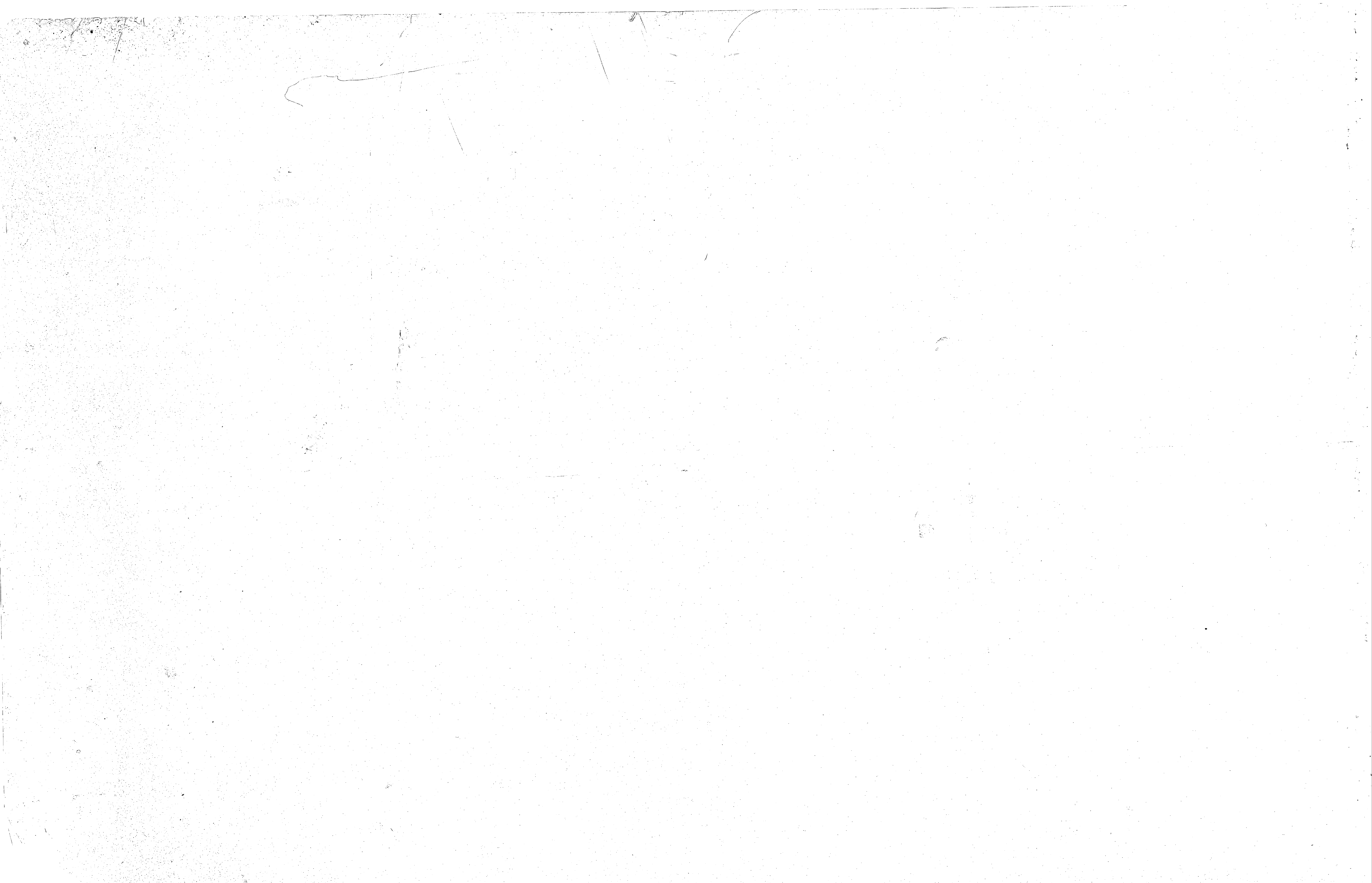
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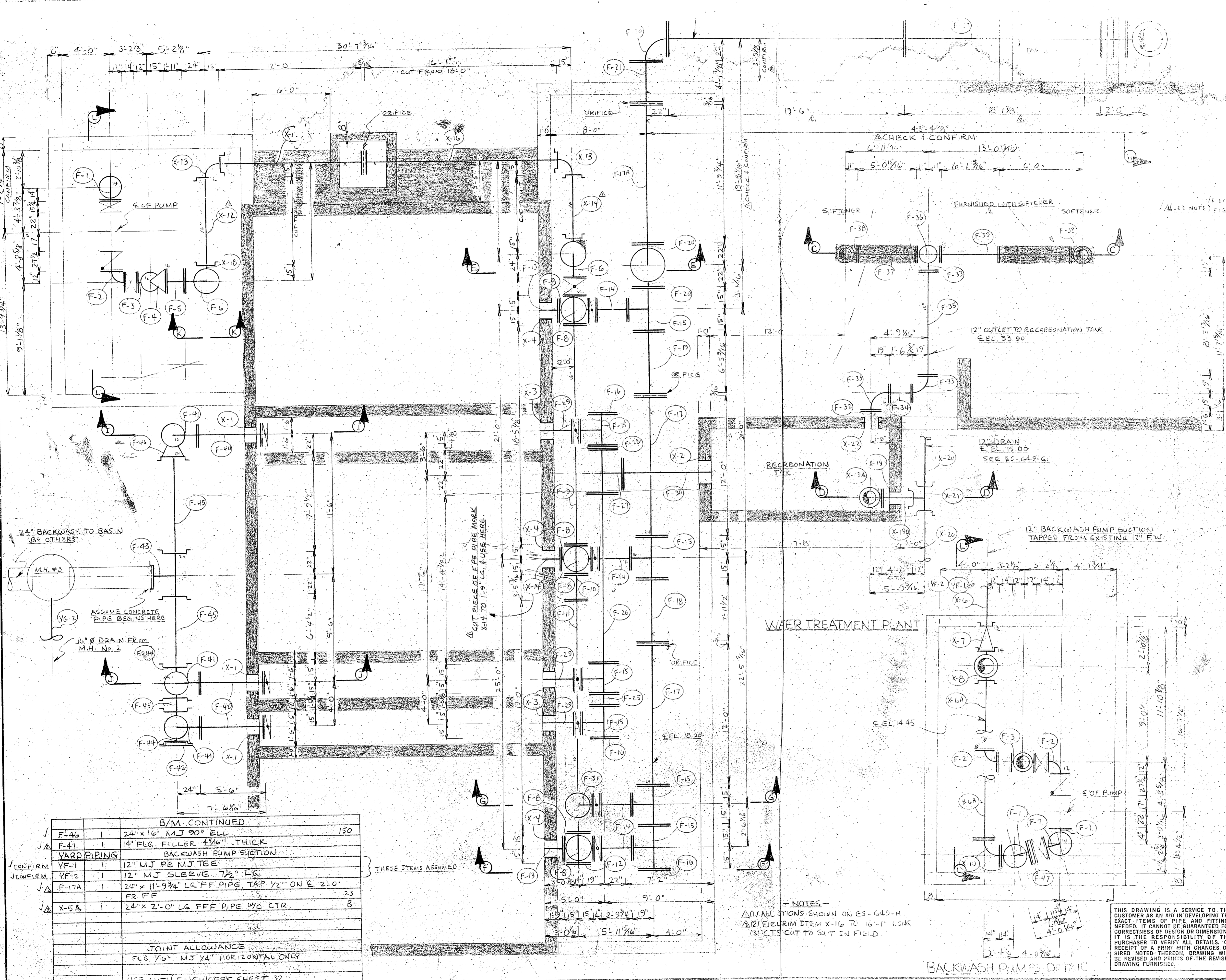
AMERICAN CAST IRON PIPE COMPANY
 P. O. BOX 2727 BIRMINGHAM, ALABAMA, 35202

FOR PEABODY REFERENCE CO.
 SUBJECT MCAS CHESTERVILLE, GA.
 DETAIL SEWAGE TREATMENT PLANT
 SURGE BASIN PUMP STATION PIPING
 BASIN AND BACKWASH PUMPS

MADE IN U.S.A.
 CHECKED: J.L.S.C.
 REV. 5/2/75
 REV. 5/2/75

SCALE: N.P.
 SHEET: ES



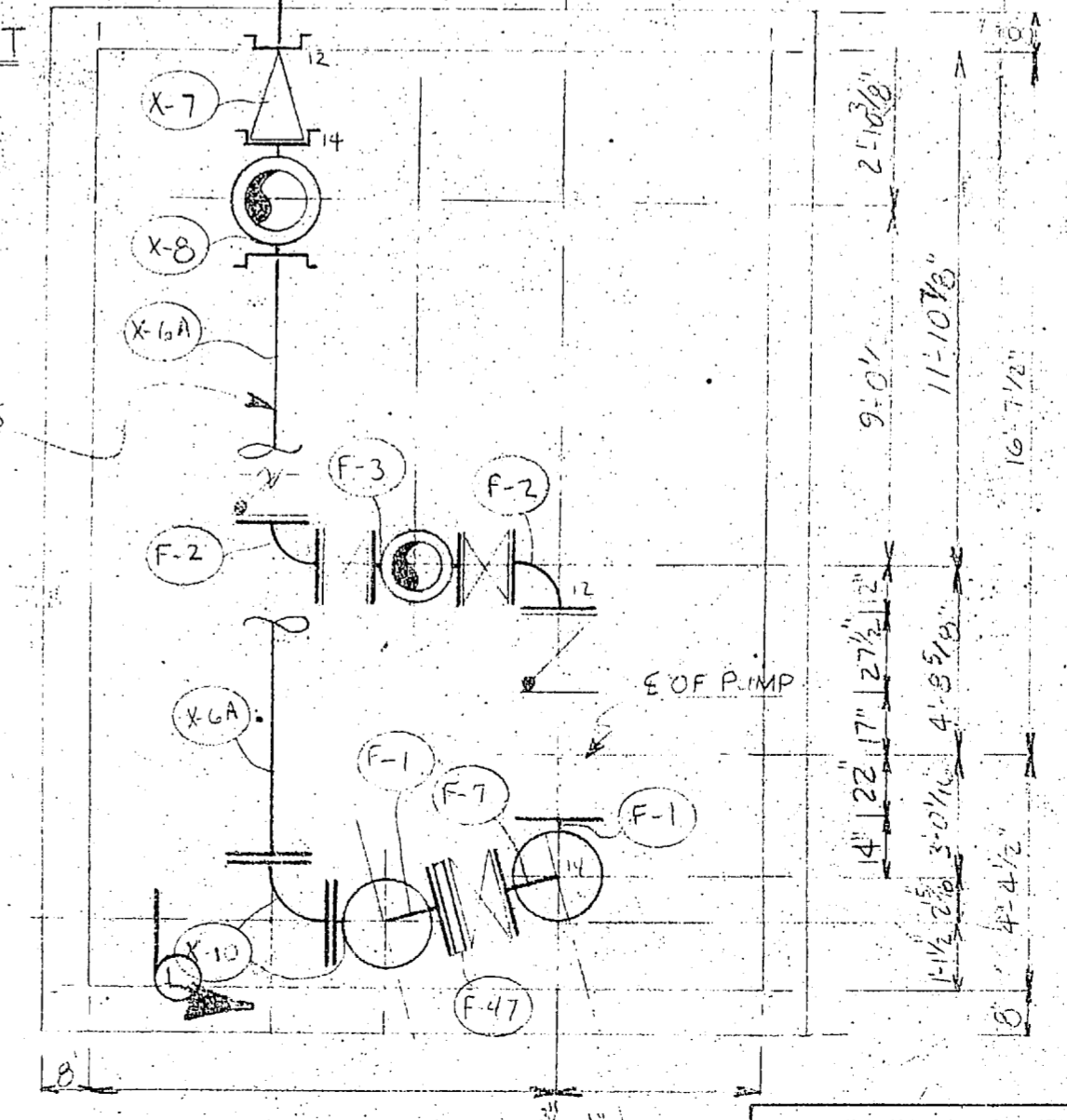


MARK	NO.	QTY	DESCRIPTION	UNIT
			PIPE AND FITTINGS TO BE COATED	
			PIPE AND FITTINGS TO BE UNCOATED	
			FLANGES FID 125	
PIPE UNDER CONCRETE MATERIAL				
✓	X-1	3	16" WALL SLEEVE 12" LG. 1/2" CTR.	B
✓	X-2	1	24" WALL SLEEVE 12" LG. 1/2" CTR.	B
✓	X-3	3	16" WALL SLEEVE 12" LG. 1/2" CTR.	B
✓	X-4	3	16" WALL SLEEVE 12" LG. 1/2" CTR.	B
✓	X-5	1	24" WALL SLEEVE 12" LG. 1/2" CTR.	B
✓	X-6	1	12" X 20'-0" LL FFP PIPE	22
✓	X-7	1	14" X 12" MJ PE REG. 2" HANG	150
✓	X-8	1	14" MJ TEE	250
✓	X-10	2	14" FLG. 90° ELL. 14" CF	250
✓	X-15	2	16" MJ 90° ELL	150
✓	X-14	1	16" X 8'-0" LG. FPE PIPE CTS	22
✓	X-15	1	16" X 12'-0" LG. FPE PIPE AND TAP 1/2" ON E. 22'-0"	22
✓	X-16	1	16" X 18'-0" LG. FPE PIPE AND TAP 1/2" ON E. 22'-0"	22
✓	X-17	1	16" X 5'-0" LG. FPE PIPE, NDS/A	22
✓	X-18	2	16" MJ 90° ELL	150
✓	X-19	2	12" WALL SLEEVE 12" LG. 1/2" CTR.	B
✓	X-19A	1	12" FLG. 90° ELL. 12" CF	250
✓	X-19B	1	12" X 4'-0" LG. FPE PIPE CTS	22
✓	X-20	4	12" X 20'-1" LL MJ PIPE	22
✓	X-21	1	12" MJ TEE	250
✓	X-22	1	12" WALL SLEEVE 12" LG. 1/2" CTR.	B
✓	X-6A	1	14" X 19'-6" LG. FFP PIPE	22
✓	X-12	1	16" X 19'-6" LG. FFP PIPE C.T.S.	22
✓	F-1	3	14" FLG. 90° ELL. 14" CF	250
✓	F-2	2	12" FLG. 90° ELL. 12" CF	250
✓	F-3	1	12" FLG. TEE. 12" CF	250
✓	F-4	1	16" X 12" FLG. 90° ELL. 15" CF	250
✓	F-5	1	16" X 1'-11" LG. FFP PIPE	22
✓	F-6	2	16" FLG. L.R. 90° ELL. 24" CF	250
✓	F-7	1	14" FLG. 90° ELL. 14" CF, ROTATE DRILLING OF 1 FLG. 3° + 29° CLOCKWISE	250
✓	F-8	6	16" FLG. TEE. 15" CF	150
✓	F-9	1	16" X 12'-5 1/2" LG. FFP PIPE	22
✓	F-10	1	16" X 5'-5 1/2" LG. FFP PIPE	22
✓	F-11	1	16" X 19'-0" LG. FFP PIPE	22
✓	F-12	1	16" BLIND FLANGE	250
✓	F-13	2	16" X 1'-9" LG. FPE PIPE NDS/A	22
✓	F-14	4	16" X 2'-0" LG. FPE PIPE	22
✓	F-15	7	24" X 16" FLG. TEE. 15" X 19" CF	250
✓	F-16	3	24" BLIND FLANGE	250
✓	F-17	2	24" X 12'-0" LG. FFP PIPE, TAP 1/2" ON E. 22'-0"	22
✓	F-18	1	24" X 7'-11 1/2" LG. FFP PIPE, TAP 1/2" ON E. 22'-0"	22
✓	F-19	1	24" X 6'-5 1/2" LG. FFP PIPE, TAP 1/2" ON E. 22'-0"	22
✓	F-20	4	24" FLG. 90° ELL. 22" CF	250
✓	F-21	1	24" X 4'-1 1/2" LG. FFP PIPE, TAP 1/2" ON E. 22'-0"	22
✓	F-22	1	24" X 19'-6" LG. FFP PIPE	22
✓	F-23	1	24" X 18'-1 1/2" LG. FFP PIPE, TAP 1/2" ON E. 22'-0"	22
✓	F-25	1	24" X 1'-5 1/2" LG. FFP PIPE	22
✓	F-26	1	24" X 14'-4 1/2" LG. FFP PIPE	22
✓	F-27	1	24" FLG. TEE. 22" CF	250
✓	F-28	1	24" FLG. FILLER 4 1/2" THICK	250
✓	F-29	3	16" X 3'-0" LG. FPE PIPE	22
✓	F-30	1	24" X 7'-2" LG. FPE PIPE, NDS/A	22
✓	F-31	1	16" FLG. 90° ELL. 15" CF	250
✓	F-32	1	12" X 1'-6" LG. FPE PIPE, NDS/A	22
✓	F-33	3	12" FLG. L.R. 90° ELL. 19" CF	250
✓	F-34	1	12" X 1'-6 1/2" LG. FFP PIPE	22
✓	F-35	1	12" X 8'-5 1/2" LG. FFP PIPE	22
✓	F-36	1	10" FLG. TEE. 11" CF	250
✓	F-39	1	10" X 6'-1 1/2" LG. FFP PIPE	22
✓	F-40	3	16" X 5'-6" LG. FFP PIPE OF	22
✓	F-41	3	16" FLG. L.R. 90° ELL. 24" CF	250
✓	F-42	1	24" MJ PLUG	250
✓	F-43	1	24" MJ TEE, DUCTILE	250
✓	F-44	2	24" X 16" MJ TEE	250
✓	F-45	2	24" X 30'-0" LL FFP PIPE	22

B/M CONTINUED				
✓	F-46	1	24" X 16" MJ 90° ELL	150
✓	F-47	1	14" FLG. FILLER 4 1/2" THICK	
BACKWASH PUMP SUCTION				
✓	YF-1	1	12" MJ PE MJ TEE	
✓	YF-2	1	12" MJ SLEEVE 7 1/2" LG.	
✓	F-17A	1	24" X 11'-9 3/4" LG. FFP PIPE, TAP 1/2" ON E. 22'-0"	23
✓	X-5A	1	24" X 2'-0" LG. FFP PIPE 1/2" CTR.	8
JOINT ALLOWANCE				
FLG. 1/16" MJ 1/4" HORIZONTAL ONLY				
USE WITH ENGINEER'S SHEET 32				

THESE ITEMS ASSUMED

NOTES
 (1) ALL STIONS SHOWN ON E5-G45-H.
 (2) FIELD ITEM X-16 TO 16'-1" LONG.
 (3) C.T.S. CUT TO SUIT IN FIELD.



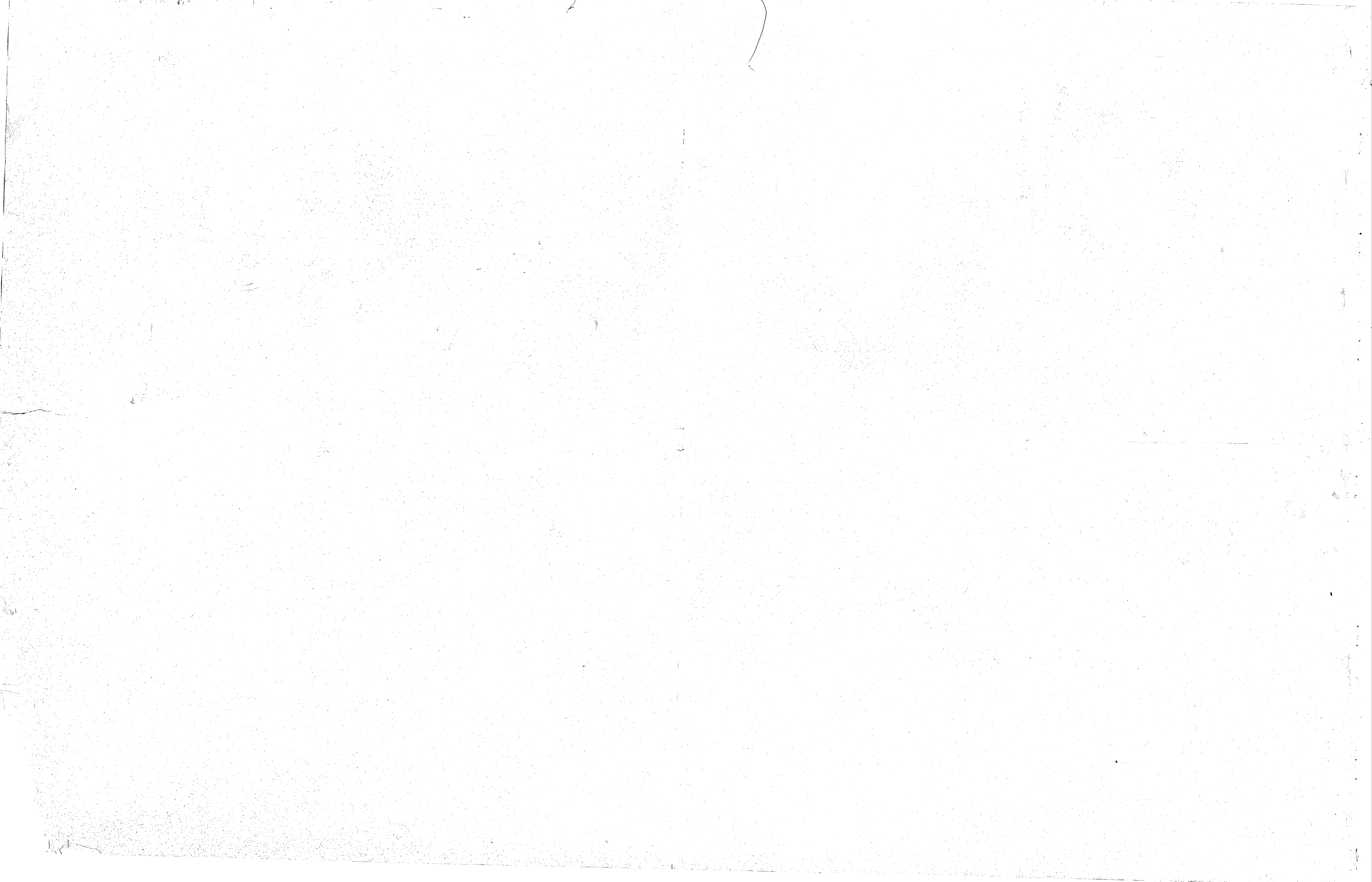
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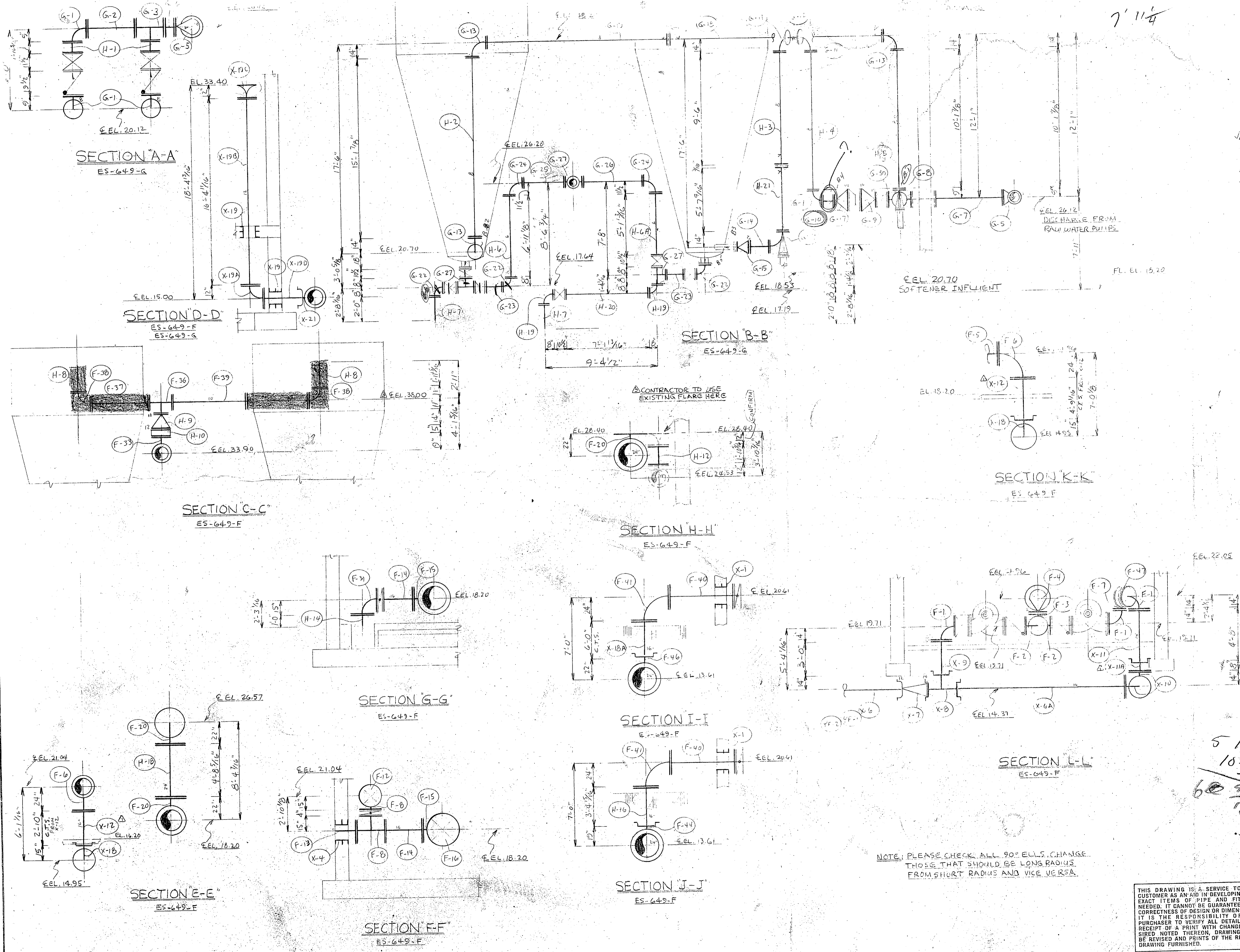
AMERICAN CAST IRON PIPE COMPANY
 P. O. BOX 2727 BIRMINGHAM, ALABAMA 35202

JACKSONVILLE, FL.

FOR PEABODY PETERSEN CO.
 SUBJECT: M.C.A.S. HELICOPTER
 DETAIL: WATER TREATMENT

MADE IN U.S.A.
 CHECKED BY: [Signature]
 REVISED BY: [Signature]





NO.	QUANTITY	DESCRIPTION	REMARKS
X-9	1	12" X 3'-0" LG. FPE PIPE	
X-11	1	8" X 9'-0" LG. FPE PIPE	SEE PLAN FOR LOCATION
X-12	1	6" X 7'-0" LG. FPE PIPE	(SEE ES-649-F)
X-19B	1	12" X 16'-4" LG. FPE PIPE	
X-19C	1	12" X 11'-0" LG. FPE PIPE	
X-11A	1	14" X 0'-8" LG. FMJ PIPE	
X-18A	1	16" X 6'-0" LG. FPE PIPE	
H-1	2	8" X 1'-10 3/4" LG. FF PIPE	
H-2	1	8" X 15'-17 1/2" LG. FF PIPE	
H-3	1	8" X 9'-0" LG. FF PIPE TAP 1/2" ON 1/4"	
H-4	1	8" X 10'-1 1/2" LG. FF PIPE	
H-5	1	8" X 10'-1 1/2" LG. FF PIPE	
H-6	1	6" X 6'-11 1/2" LG. FF PIPE	
H-7	2	6" X 2'-0" LG. FPE PIPE	
H-9	1	12" X 10" FLG. REDUCER 14" LG.	
H-10	1	12" FLG. FILLER 5" THICK	
H-12	1	12" X 1'-10 3/4" LG. FF PIPE	22
H-14	1	16" X 1'-0" LG. FPE PIPE NOGA	22
H-16	2	16" X 3'-4 3/4" LG. FPE PIPE GAMJ	22
H-18	1	24" X 4'-8 3/4" LG. FF PIPE	3
H-19	2	6" FLG. 90° ELL, 8" CF.	22
H-20	1	6" X 7'-11 3/4" LG. FF PIPE	22
H-21	1	8" X 5'-7 3/4" LG. FF PIPE, TAP 1/2" ON 1/4" FROM FACE OF FLG.	22
H-6A	1	6" X 5'-11 3/4" LG. FF PIPE	22

5 1/2
10 1/2
60 9/16

JOINT ALLOWANCE	
FLG. 1/16"	MJ 1/4" HORIZONTAL ONLY.
CTS. CUT TO SUIT IN FIELD.	
USE WITH ENGINEER'S SHEETS 331-34	

AMERICAN CAST IRON PIPE COMPANY
P. O. BOX 2727 BIRMINGHAM, ALABAMA, 35202

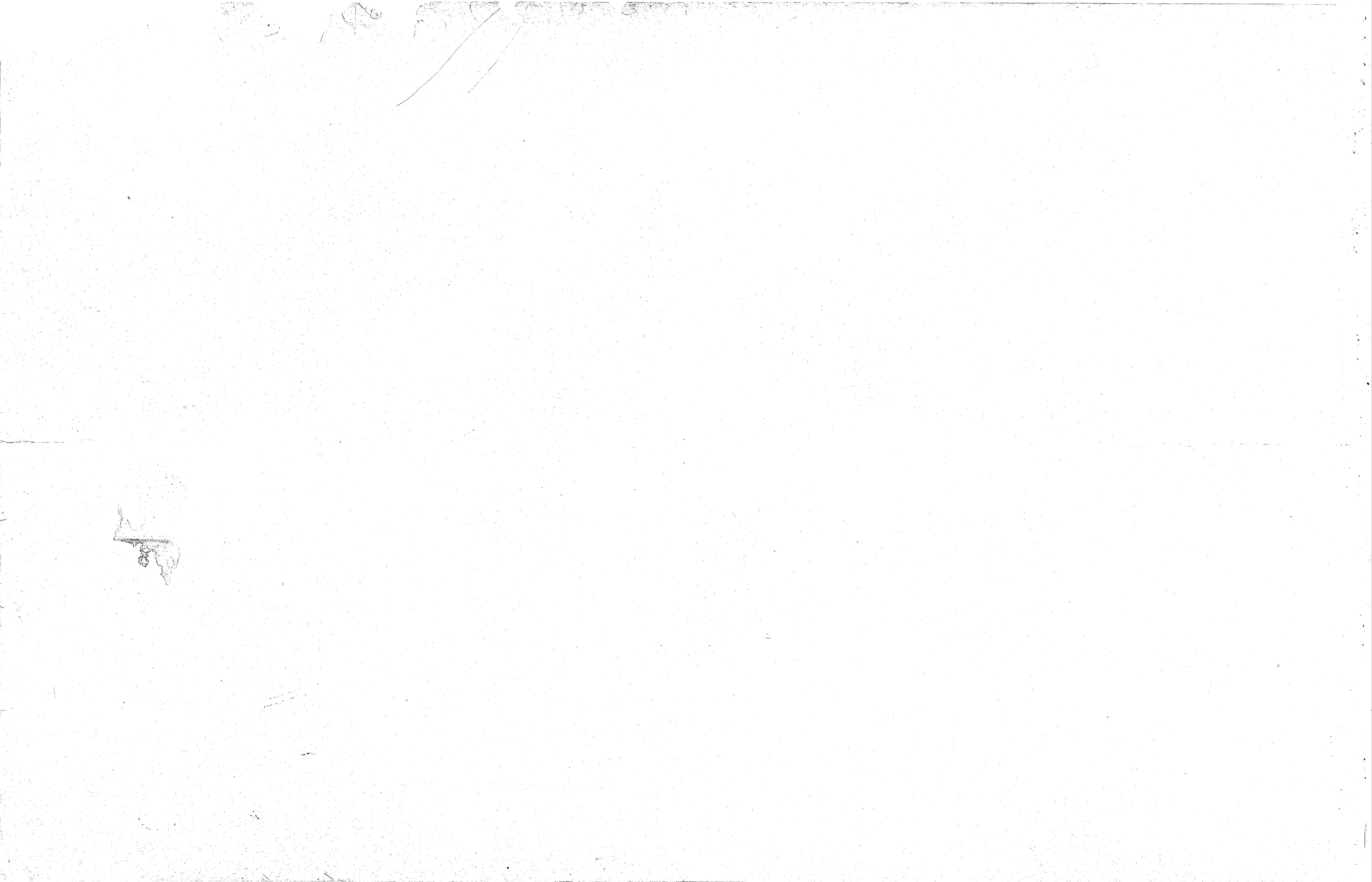
FOR PEABODY PETERSEN CO.
SUBJECT: MCAS (HELICOPTER) UTILITIES EXP.
DETAIL: WATER TREATMENT PLANT - SECTIONS.

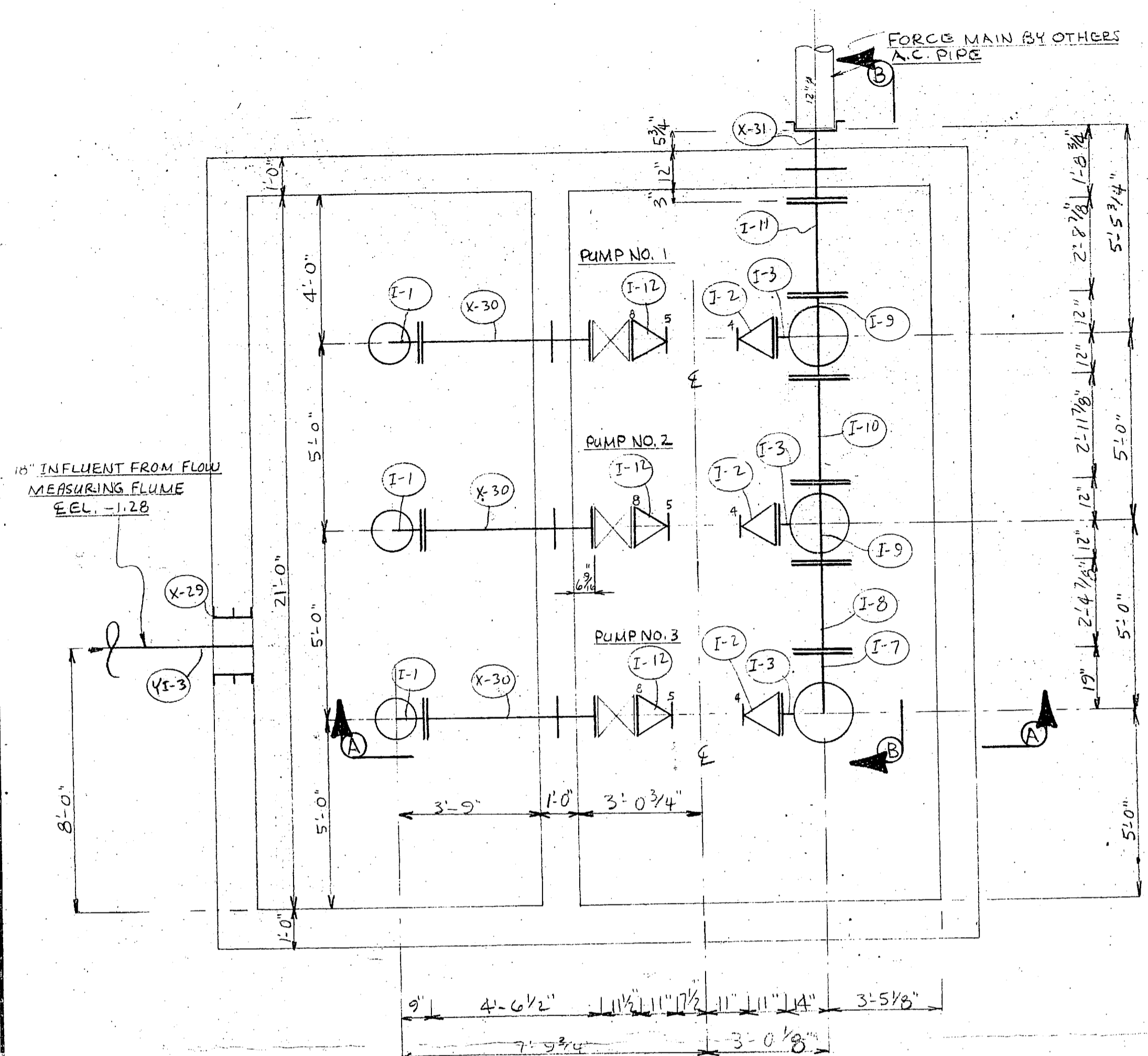
JACKSONVILLE, N.C.

MADE 4/25/75 RE
CHECKED
REV. 5/13/75 RE
REV. 5/19/75 RE

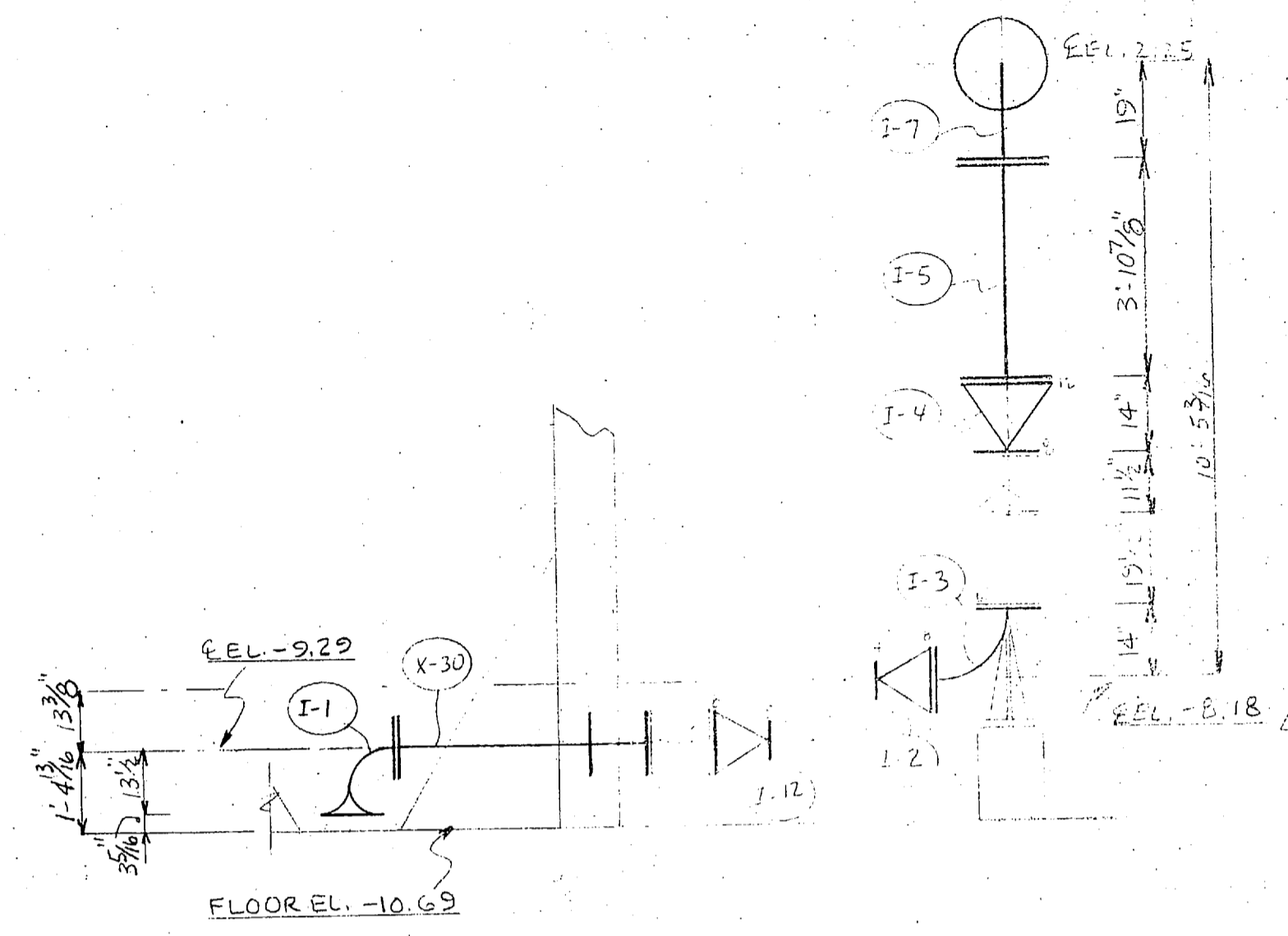
SCALE: N.T.S.
SHEET 6 OF 6

THIS DRAWING IS A SERVICE TO THE CUSTOMER AS AN AID IN DEVELOPING THE EXACT ITEMS OF PIPE AND FITTINGS NEEDED. IT CANNOT BE GUARANTEED FOR CORRECTNESS OF DESIGN OR DIMENSIONS. IT IS THE RESPONSIBILITY OF THE PURCHASER TO VERIFY ALL DETAILS. ON RECEIPT OF A PRINT WITH CHANGES DESIRED NOTED THEREON, DRAWING WILL BE REVISED AND PRINTS OF THE REVISED DRAWING FURNISHED.

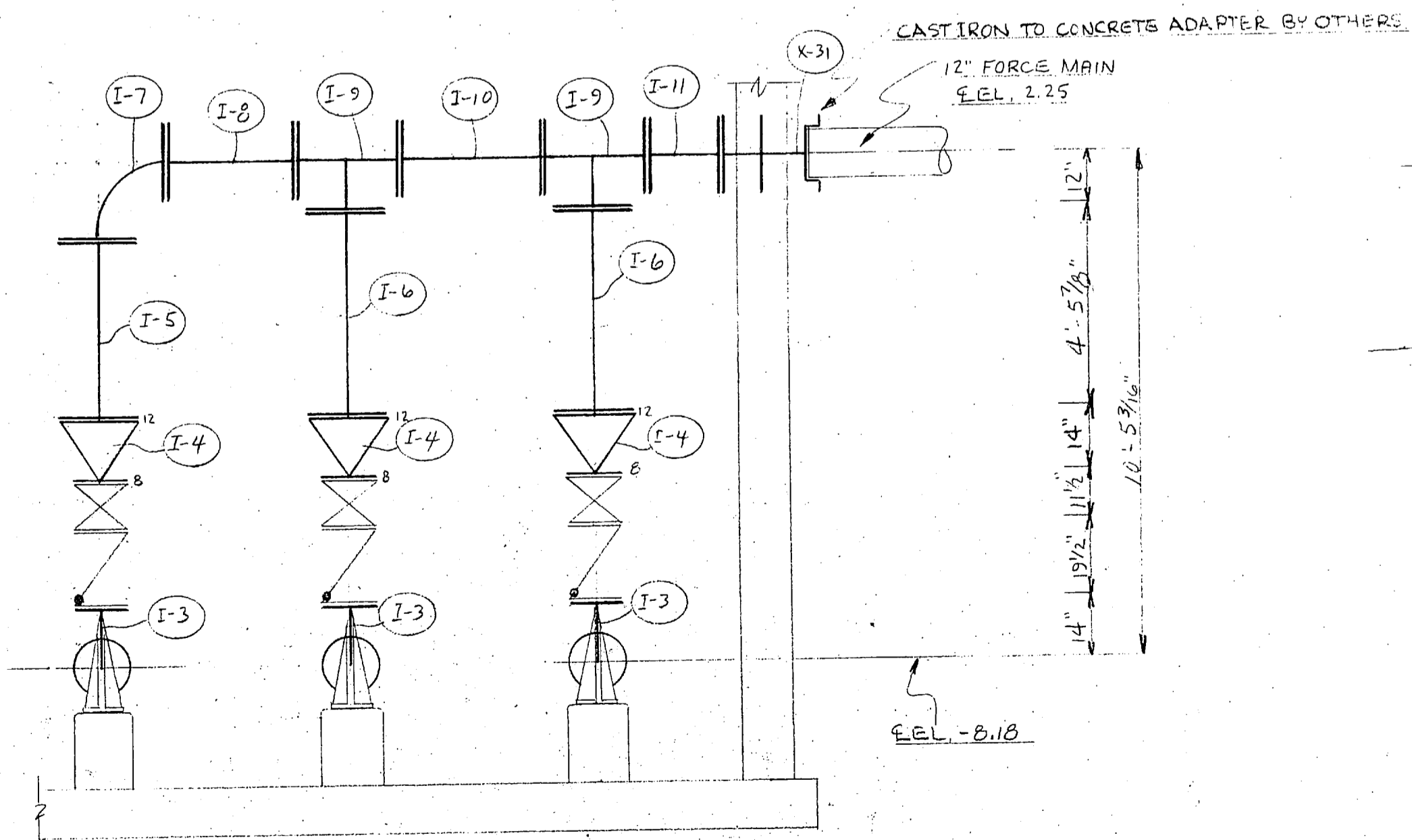




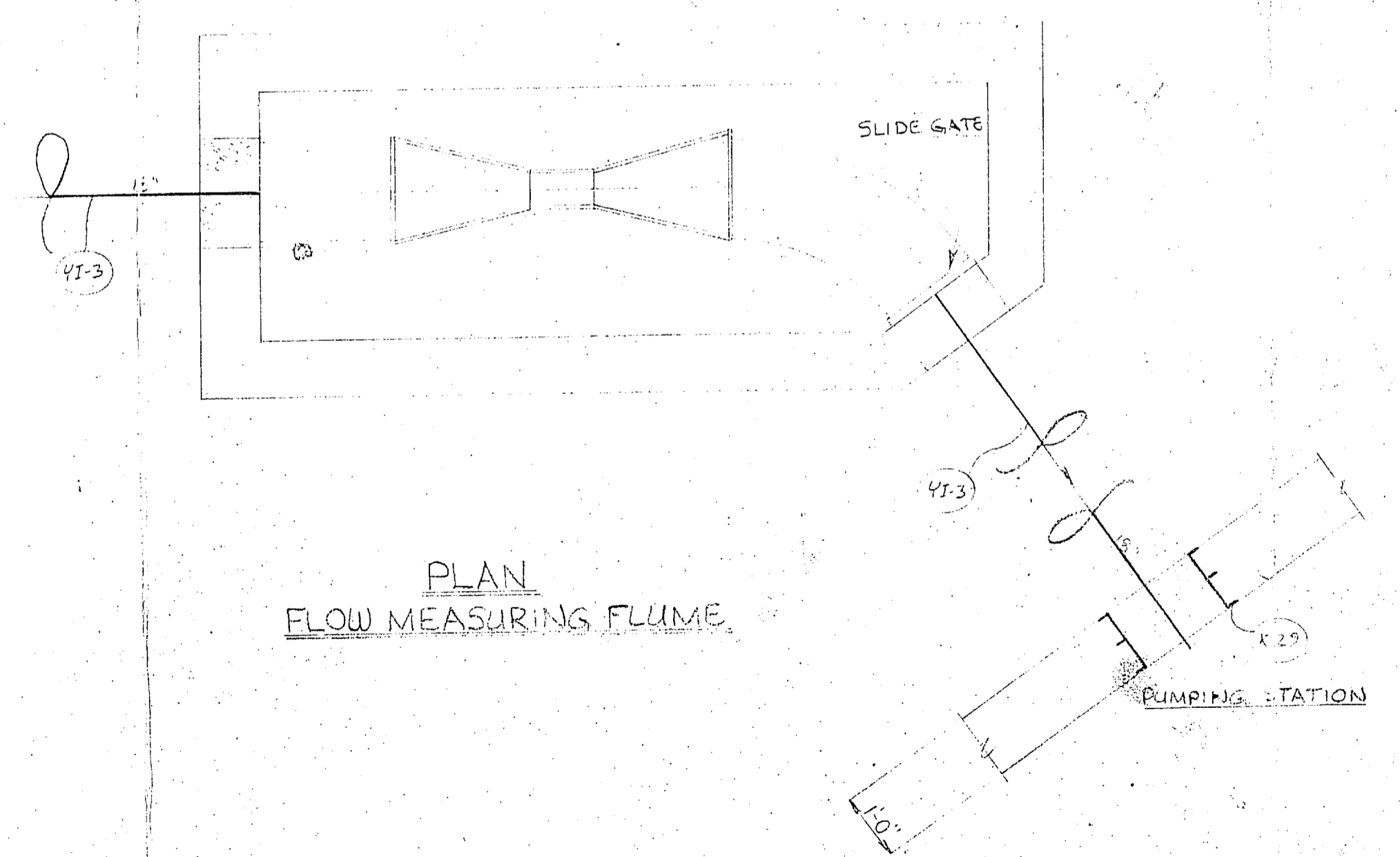
PLAN
SEWAGE PUMPING STATION



SECTION A-A



SECTION B-B



PLAN
FLOW MEASURING FLUME

ITEM	QTY	DESCRIPTION	UNIT
X-29	1	18\"/>	

I-1	3	8\"/>
I-2	3	8\"/>
I-3	3	8\"/>
I-4	3	12\"/>
I-5	1	12\"/>
I-6	2	12\"/>
I-7	1	12\"/>
I-8	1	12\"/>
I-9	2	12\"/>
I-10	1	12\"/>
I-11	1	12\"/>
I-12	3	8\"/>

ITEM	QTY	DESCRIPTION	UNIT
YI-1	1	10\"/>	
YI-2	3	10\"/>	
YI-3	7	18\"/>	

NOTE CONFIRM PLUG FOR EXISTING SEWAGE LINE TO BE MECHANICAL JOINT.

(✓) MATERIALS ON ORDER.

USE WITH ENGINEER'S SHEETS 45, 53, 54 & 54

AMERICAN CAST IRON PIPE COMPANY
P. O. BOX 2727 BIRMINGHAM, ALABAMA, 35202

FOR PEABODY PETERSEN CO.
SUBJECT MCAS HELICOPTER UTILITIES EXP
DETAIL NEW RIVER SEWAGE PUMPING STATION

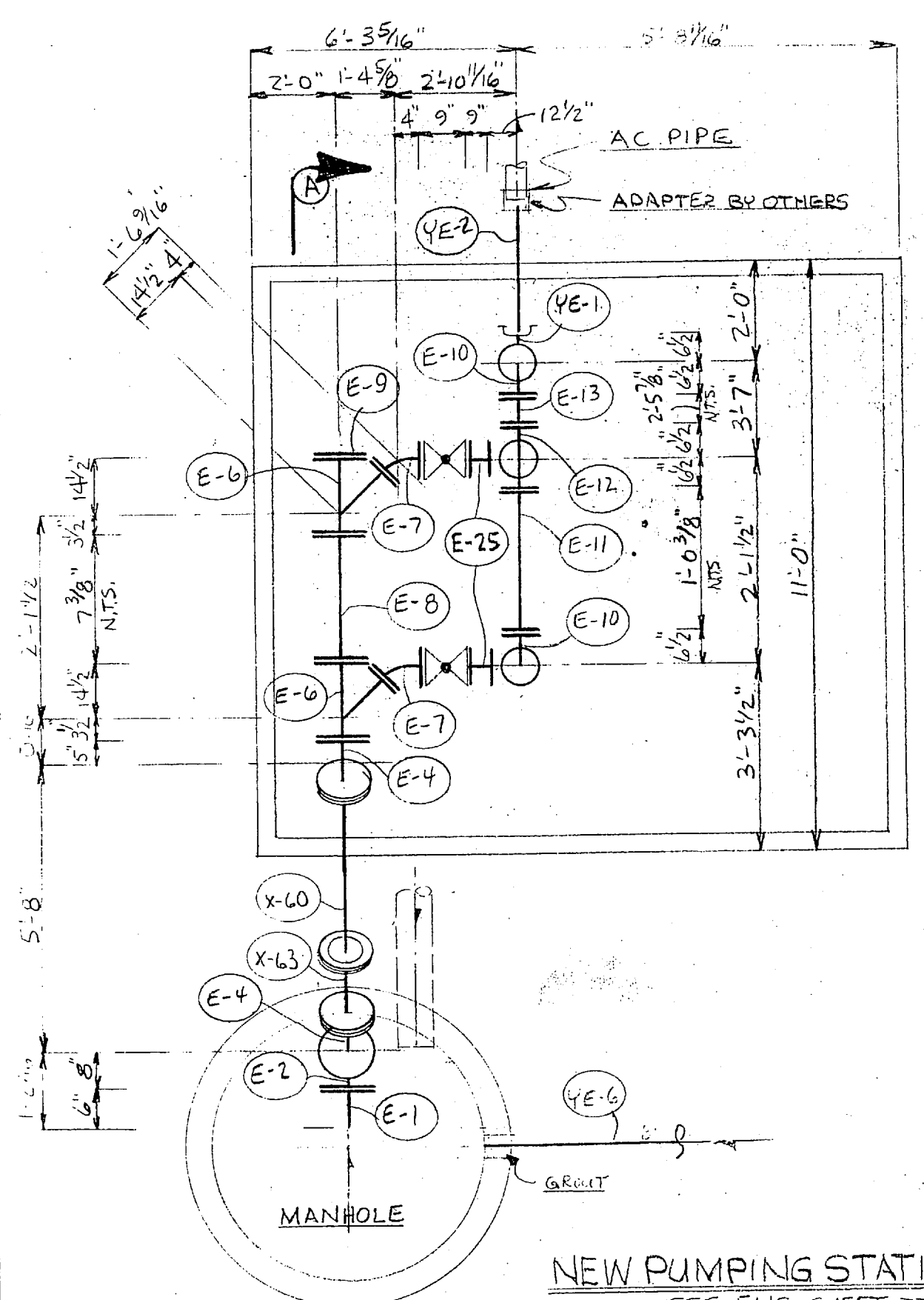
JACKSONVILLE, NC

MADE 5/10/75 DE
CHECKED
REV 5/29/75 DE
REV 9/10/75 DE

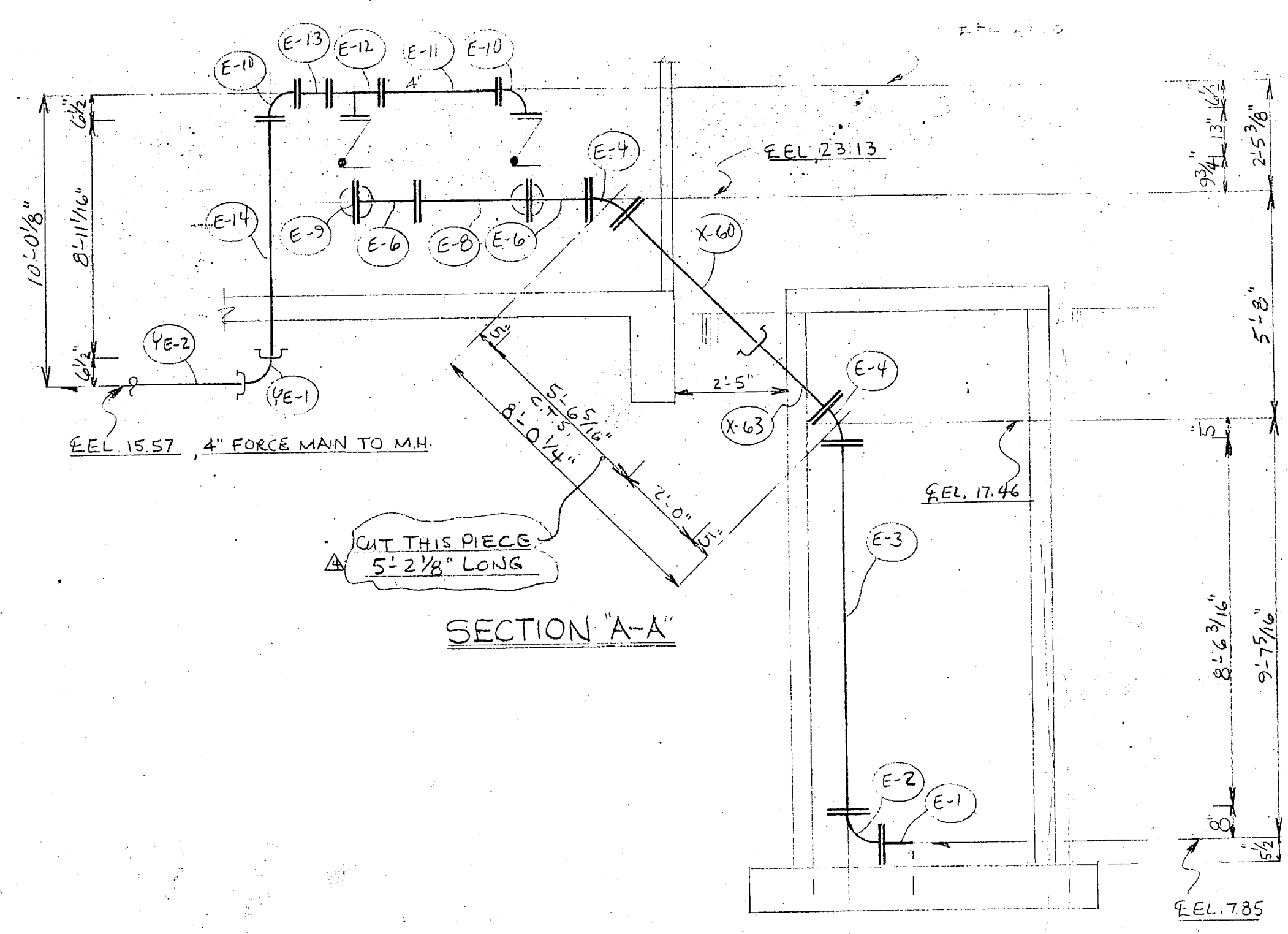
SCALE
NTS

ES-649-I
SHEET 2 OF

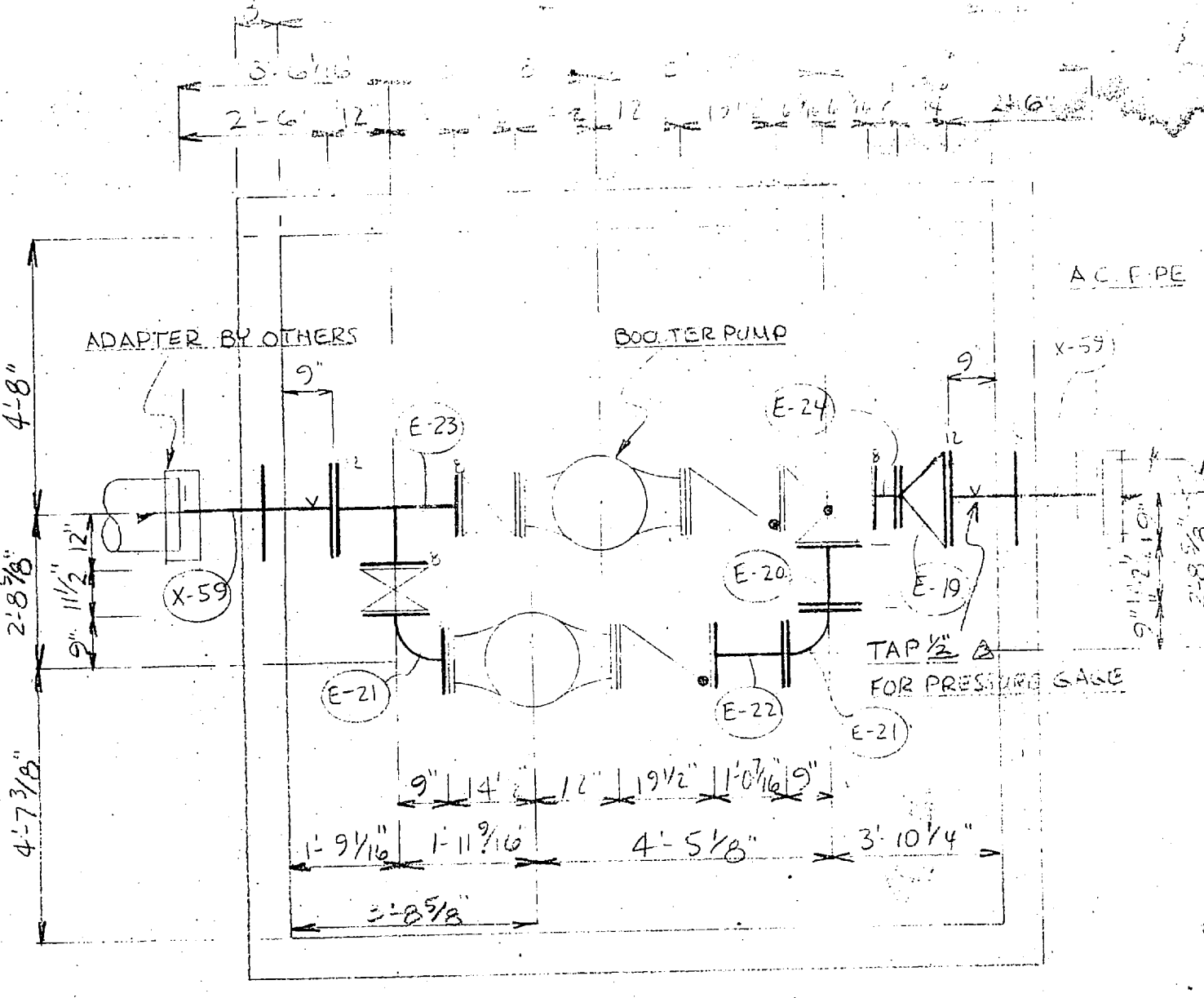
THIS DRAWING IS A SERVICE TO THE CUSTOMER AS AN AID IN DEVELOPING THE EXACT ITEMS OF PIPE AND FITTINGS NEEDED. IT CANNOT BE GUARANTEED FOR CORRECTNESS OF DESIGN OR DIMENSIONS. IT IS THE RESPONSIBILITY OF THE PURCHASER TO VERIFY ALL DETAILS. ON RECEIPT OF A PRINT, THIS DRAWING WILL BE REVISED AND PRINTS OF THE REVISED DRAWING FURNISHED.



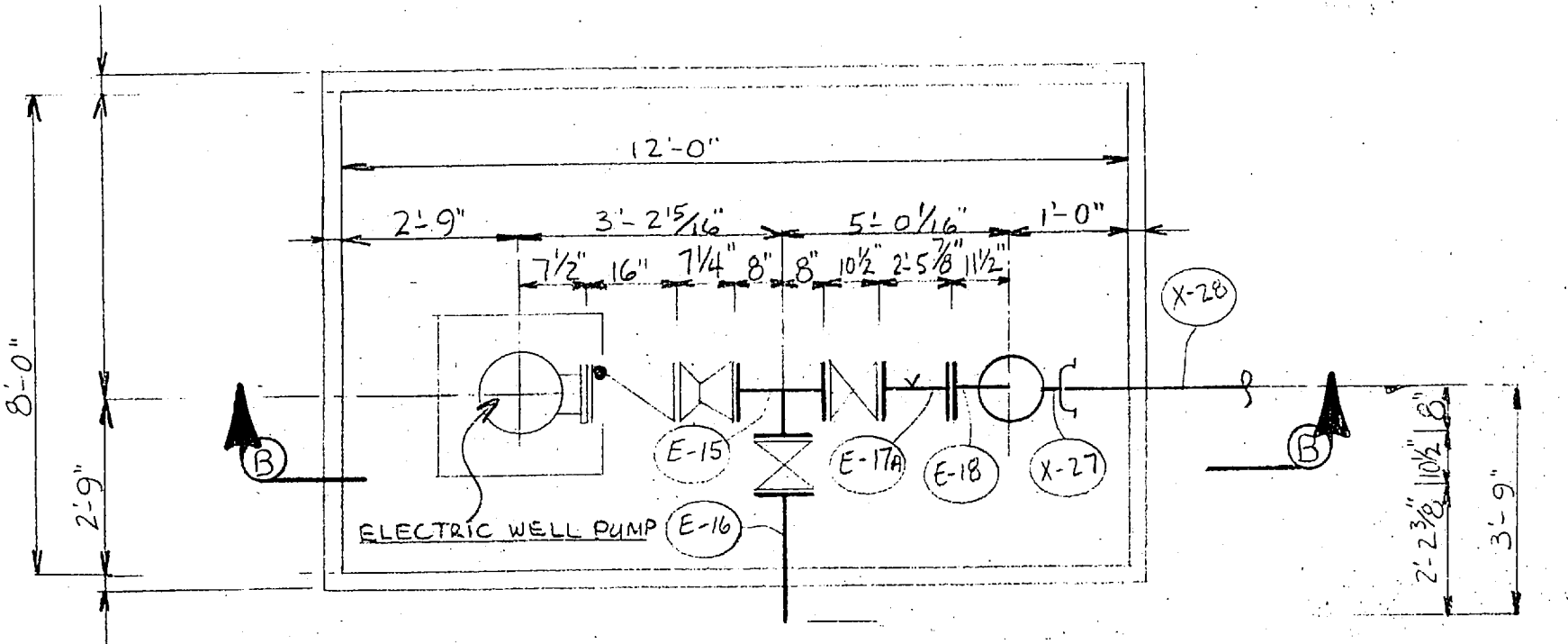
NEW PUMPING STATION PLAN
SEE ENG. SHEET 77



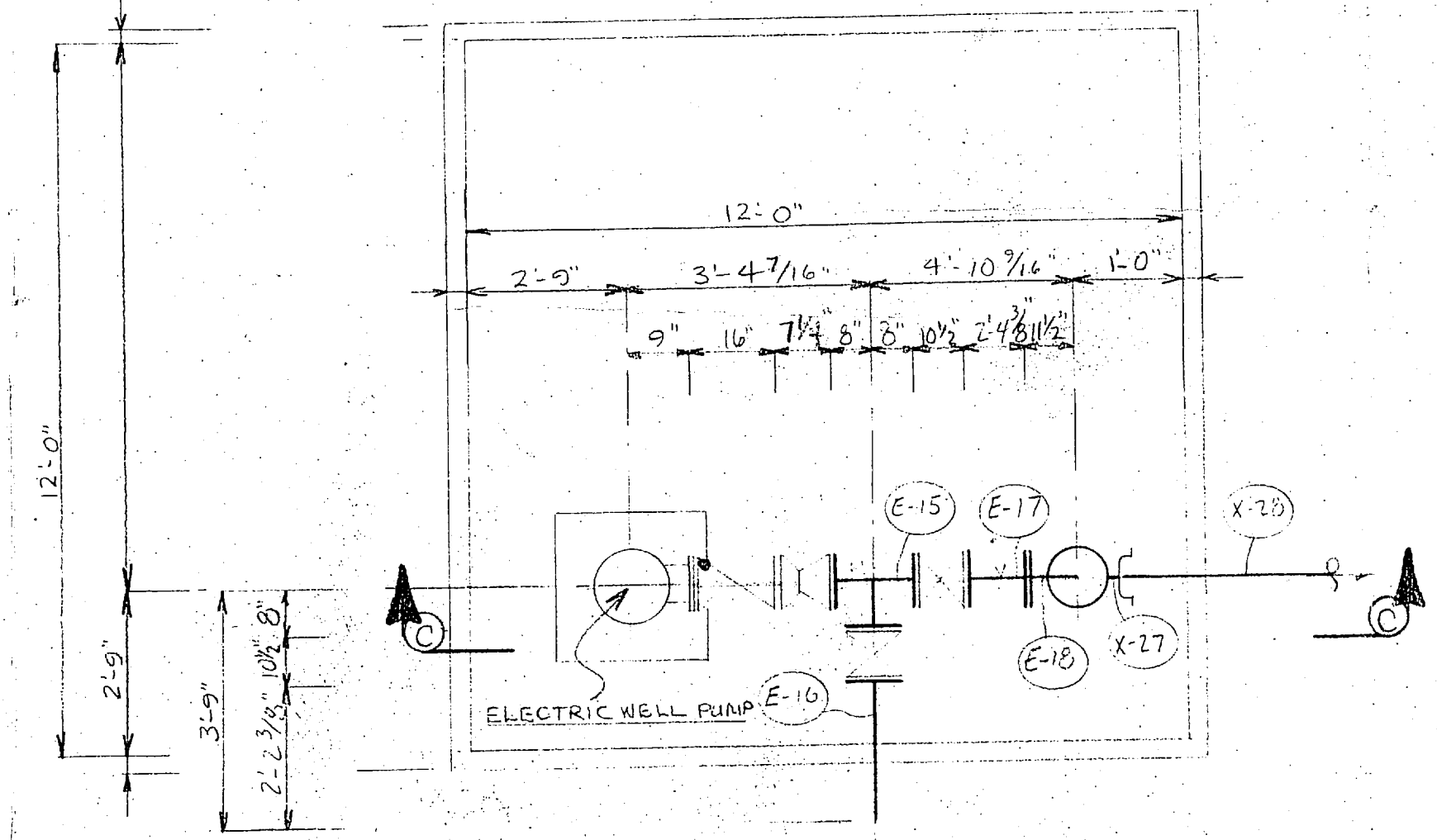
SECTION "A-A"



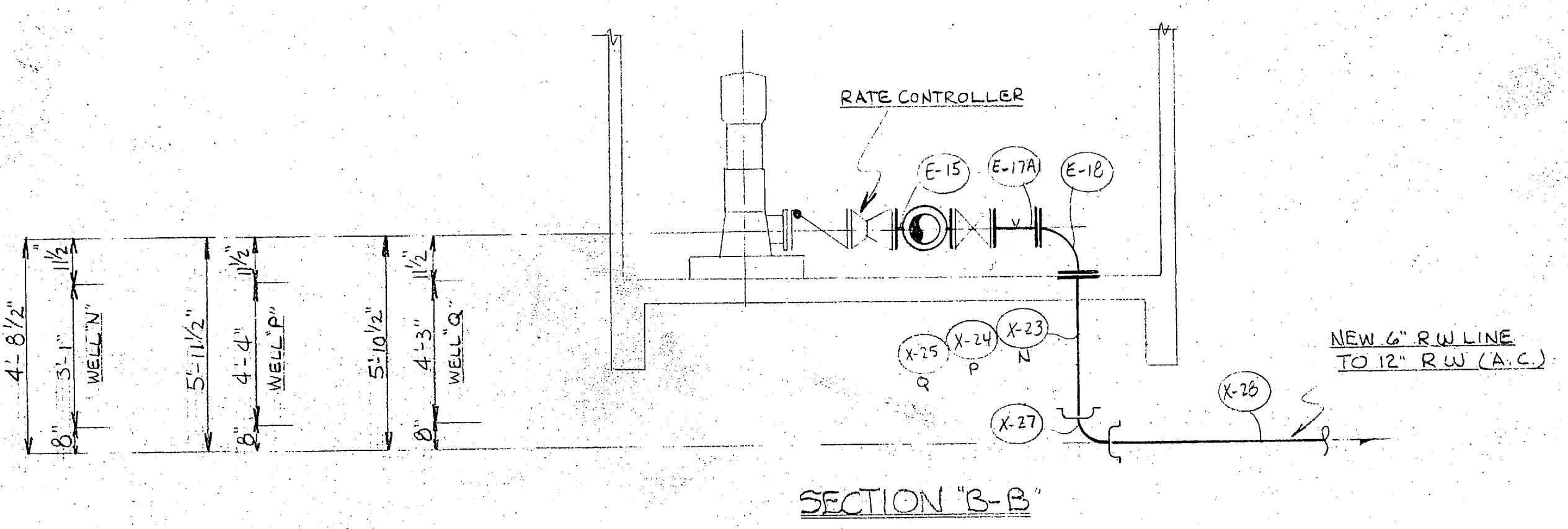
PLAN
RAW WATER BOOSTER PUMPS



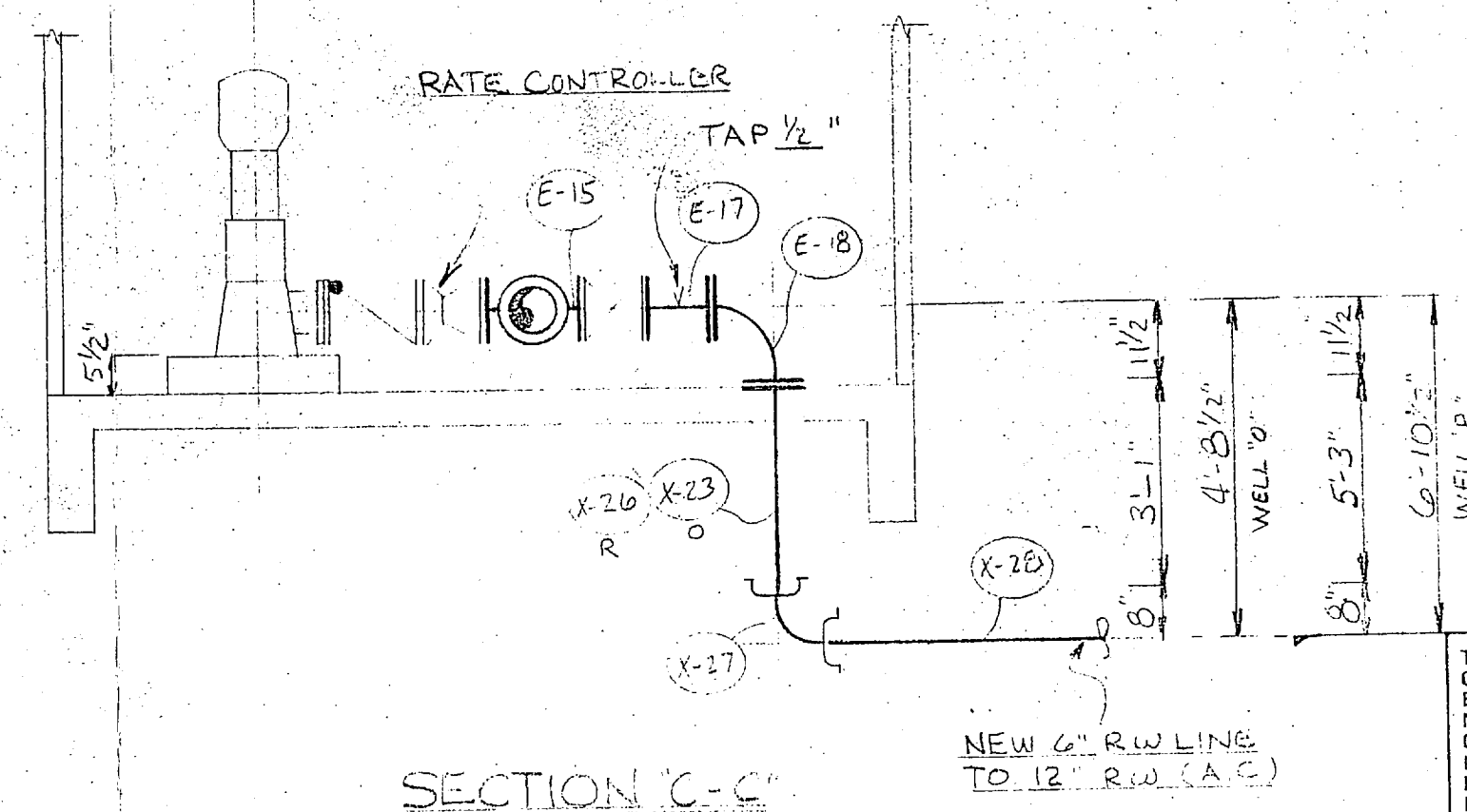
PLAN
NEW WELLS N.P. & O.



PLAN
NEW WELLS O & R



SECTION "B-B"



SECTION "C-C"

BILL OF MATERIAL		
MARK	NO. REQD	DESCRIPTION
		ALL PIPE AND FITTINGS TO BE BITUMINOUS COATED OUTSIDE & CEMENT LINED INSIDE.
		FLANGES F80 125
		UNDER CONCRETE MATERIALS
X-23	2	6" X 3'-1" LG. F.F. PIPE, GAMJ, TAP FLG. 22
X-24	1	6" X 4'-4" LG. F.F. PIPE, GAMJ, TAP FLG. 22
X-25	1	6" X 4'-3" LG. F.F. PIPE, GAMJ, TAP FLG. 22
X-26	1	6" X 5'-3" LG. F.F. PIPE, GAMJ, TAP FLG. 22
X-27	5	6" MJ 90° ELL. 22
X-28	5	6" X 20'-0" LL F.F. PIPE 22
X-29	2	12" X 2'-0" LG. F.F. PIPE TAP 1/2" ON E 22
E-1	1	4" F.F. FF, GADR 13.20" O.D. D
E-2	1	5" X 0'-6" LG. F.F. PIPE NOGA 22
E-3	1	6" FLG. 90° ELL. 8" CF. 22
E-4	2	6" FLG. 45° BEND. 5" CF. 22
E-5	2	6" X 4'-5" LG. F.F. PIPE TAP 1/2" ON E 22
E-6	2	6" X 4'-5" LG. F.F. PIPE TAP 1/2" ON E 22
E-7	2	4" FLG. 45° BEND. 4" CF. D
E-8	1	6" X 0'-7 3/8" LG. F.F. PIPE D
E-9	1	6" B.L. 135° FLANGE 22
E-10	2	4" FLG. 90° ELL. 6 1/2" CF. 22
E-11	1	4" X 1'-0 3/8" LG. F.F. PIPE 23
E-12	1	4" FLG. TEE, 90° CF. D
E-13	1	4" X 2'-5 7/8" LG. F.F. PIPE D
E-14	1	4" X 8'-11 1/2" LG. F.F. PIPE, GAMJ. 23
E-15	4	6" FLG. TEE, 8" CF. 22
E-16	5	6" X 2'-2 3/8" LG. F.F. PIPE NOGA 22
E-17	5	6" X 2'-4 1/2" LG. F.F. PIPE TAP 1/2" ON E 22
E-18	5	6" FLG. L.R. 90° ELL. 11 1/2" CF. 22
E-19	1	12" X 8" FLG. RELIEF, 14" LG. 22
E-20	1	6" X 1'-2 1/2" LG. F.F. PIPE 22
E-21	2	6" FLG. 90° ELL. 9" CF. 22
E-22	1	6" X 1'-0 1/2" LG. F.F. PIPE 22
E-23	1	12" X 8" FLG. TEE, 12" CF. 22
E-24	1	8" X 1'-7 3/16" LG. F.F. PIPE 22
YARD PIPING		SEWAGE FORCE MAIN
YE-1	1	4" MJ 90° ELL. 22
YE-2	1	4" X 4'-8" LG. F.F. PIPE 22
		RAW WATER LINE
YE-4	7	6" X 20'-0" LG. F.F. PIPE 22
YE-5	5	6" MJ DE 45° BEND. 22
		NOTE: PLEASE ADVISE IF MJ DE 45° BENDS ARE NOT C.I. BALANCE OF PIPING TO BE A.C.
X-60	1	6" X 5'-6 3/16" LG. F.F. PIPE C.T.S. 22
X-63	1	6" X 2'-0" LL F.F. PIPE 22
		MANHOLES IN FLUENT (SEE ENGINEERING SHEET 75)
E-1	5	6" X 20'-0" LL F.F. PIPE 22
		NOTE: REFER TO ITEM E-15. QUANTITY CHANGED FROM 5 TO 4. USE ITEM MARK C-7 IN LIEU OF 1 PIECE E-15.
E-17A	2	6" X 2'-5 1/2" LG. F.F. PIPE TAP 1/2" ON E 22
E-25	2	4" X 0'-9" LG. F.F. PIPE D
		JOINT ALLOWANCE
		FLG. 1/2" MJ 1/4" HORIZONTAL ONLY
		CT3: CHT TO SUIT IN FIELD.
		MATERIAL ON ORDER
		USE WITH ENG. SHEET 48-45 AND 77.

AMERICAN CAST IRON PIPE COMPANY
P. O. BOX 2727 BIRMINGHAM, ALABAMA 35202

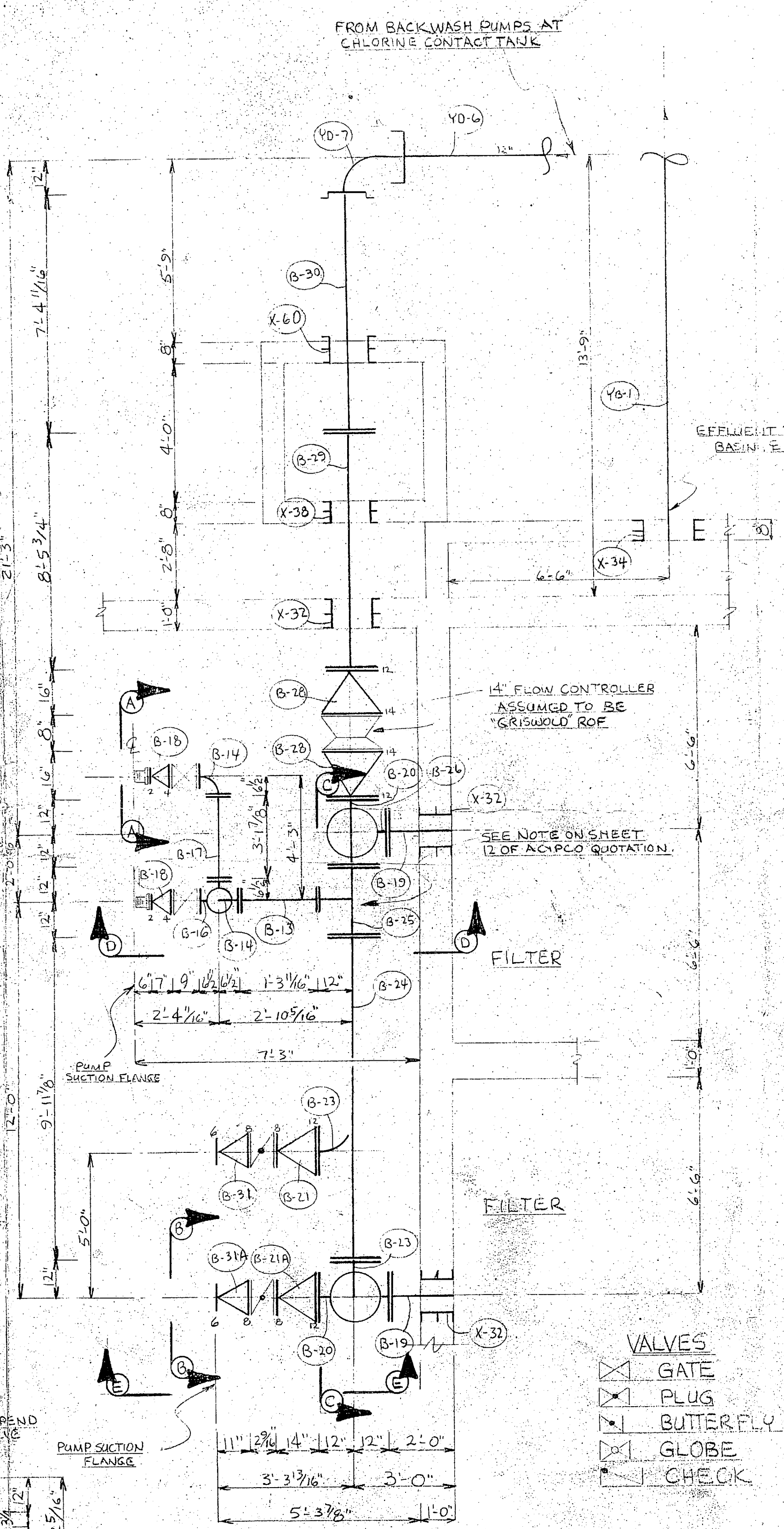
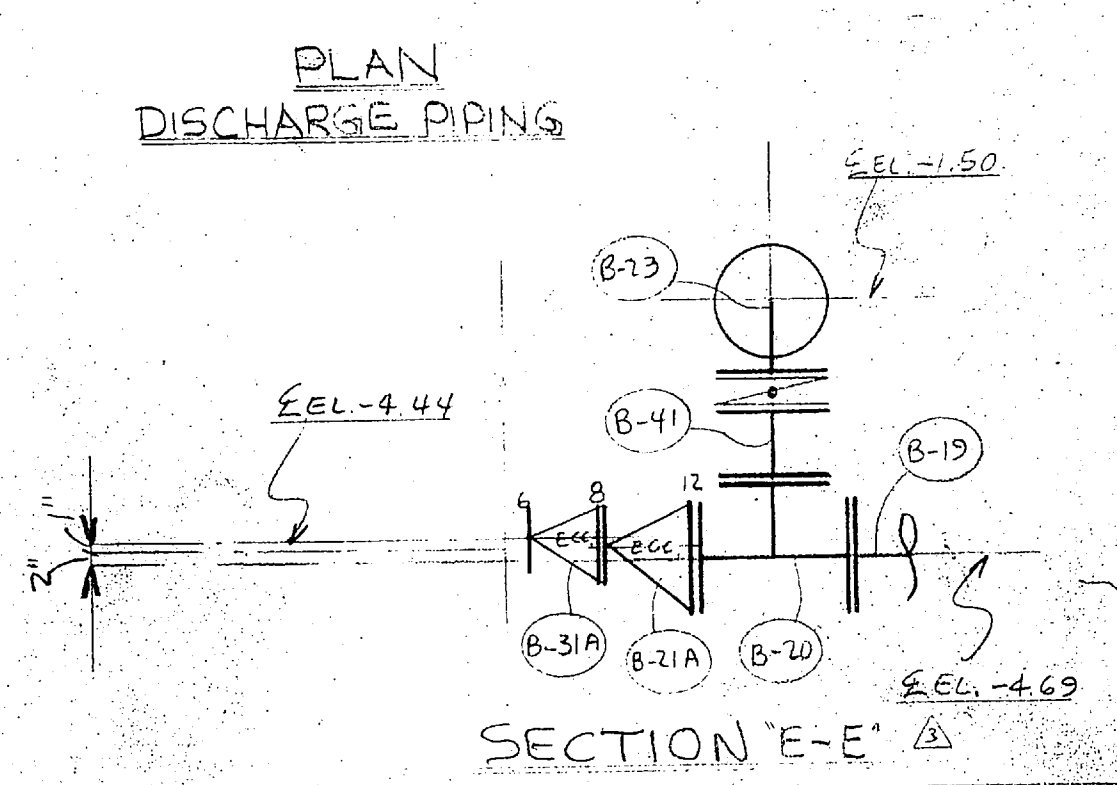
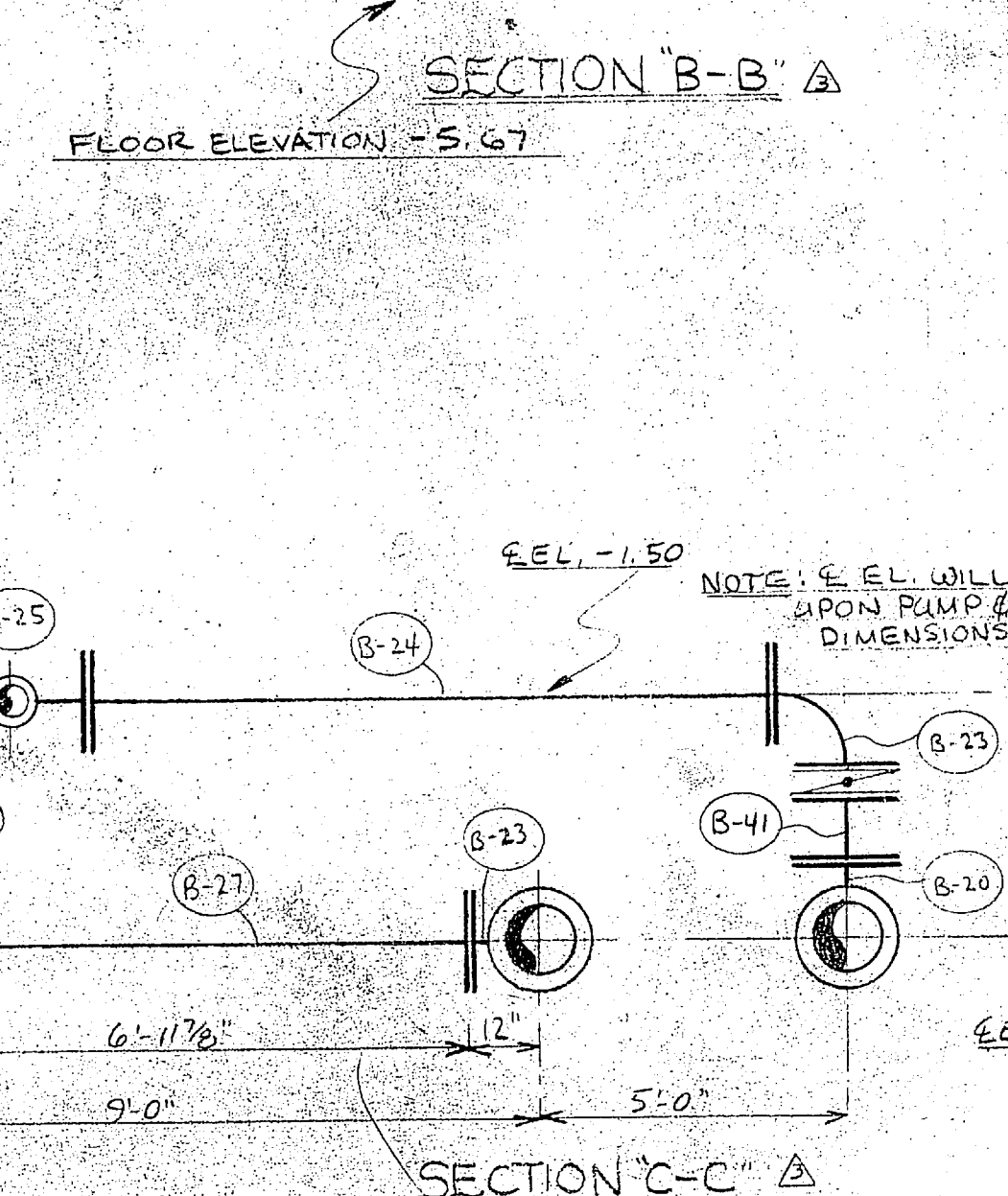
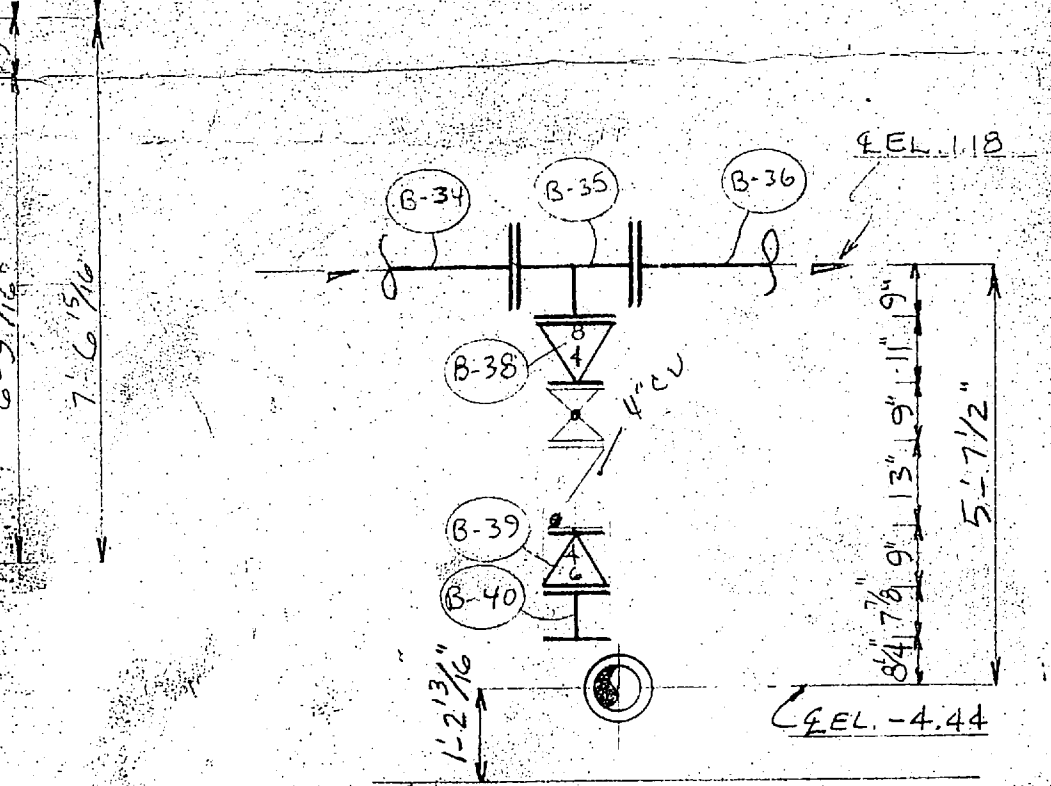
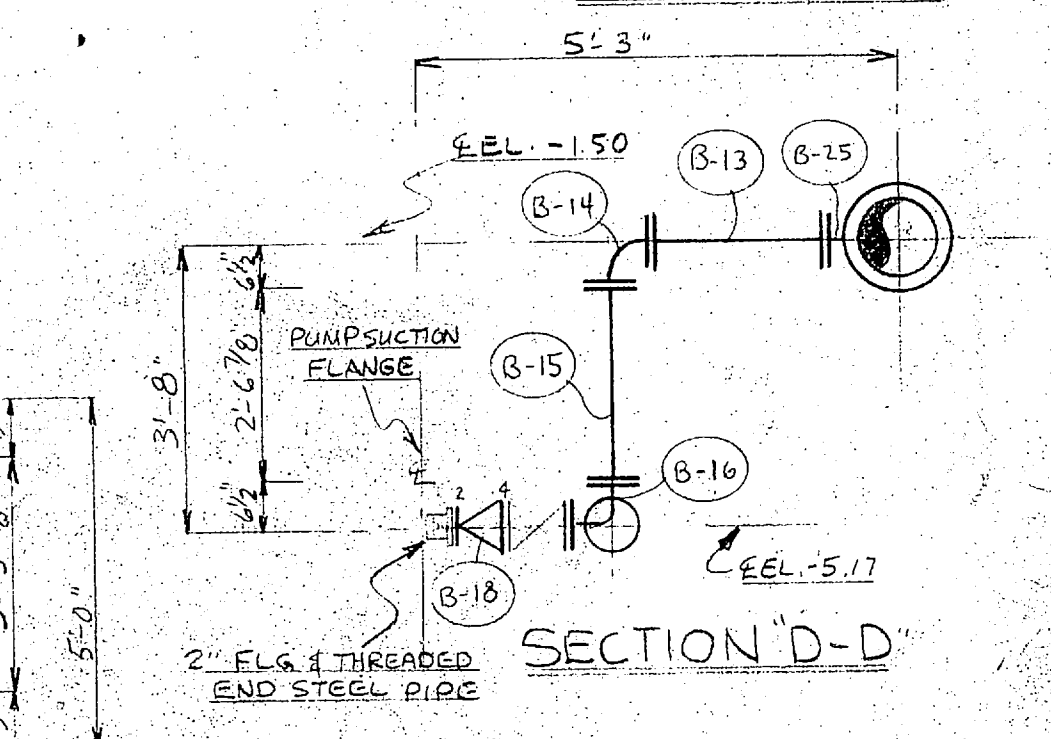
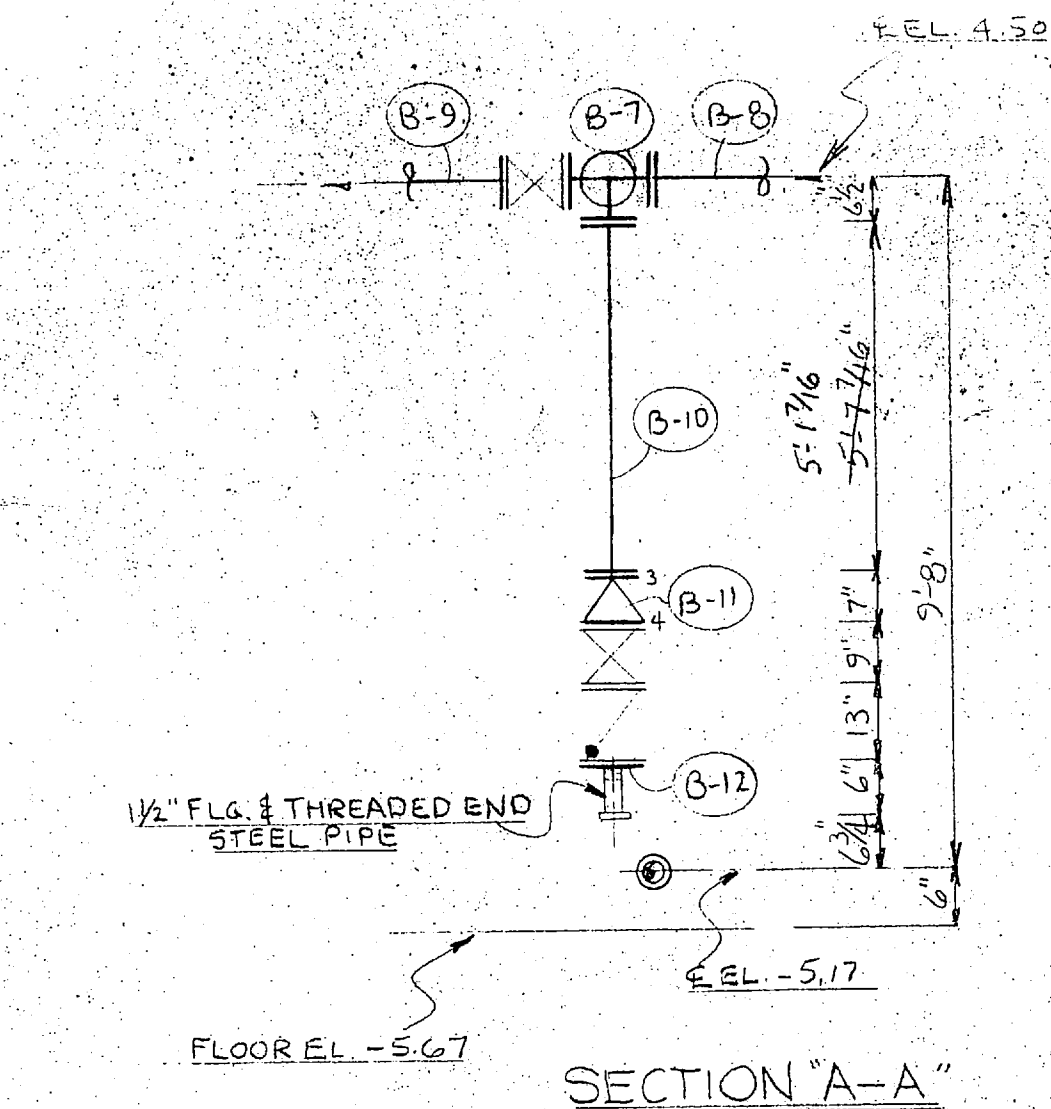
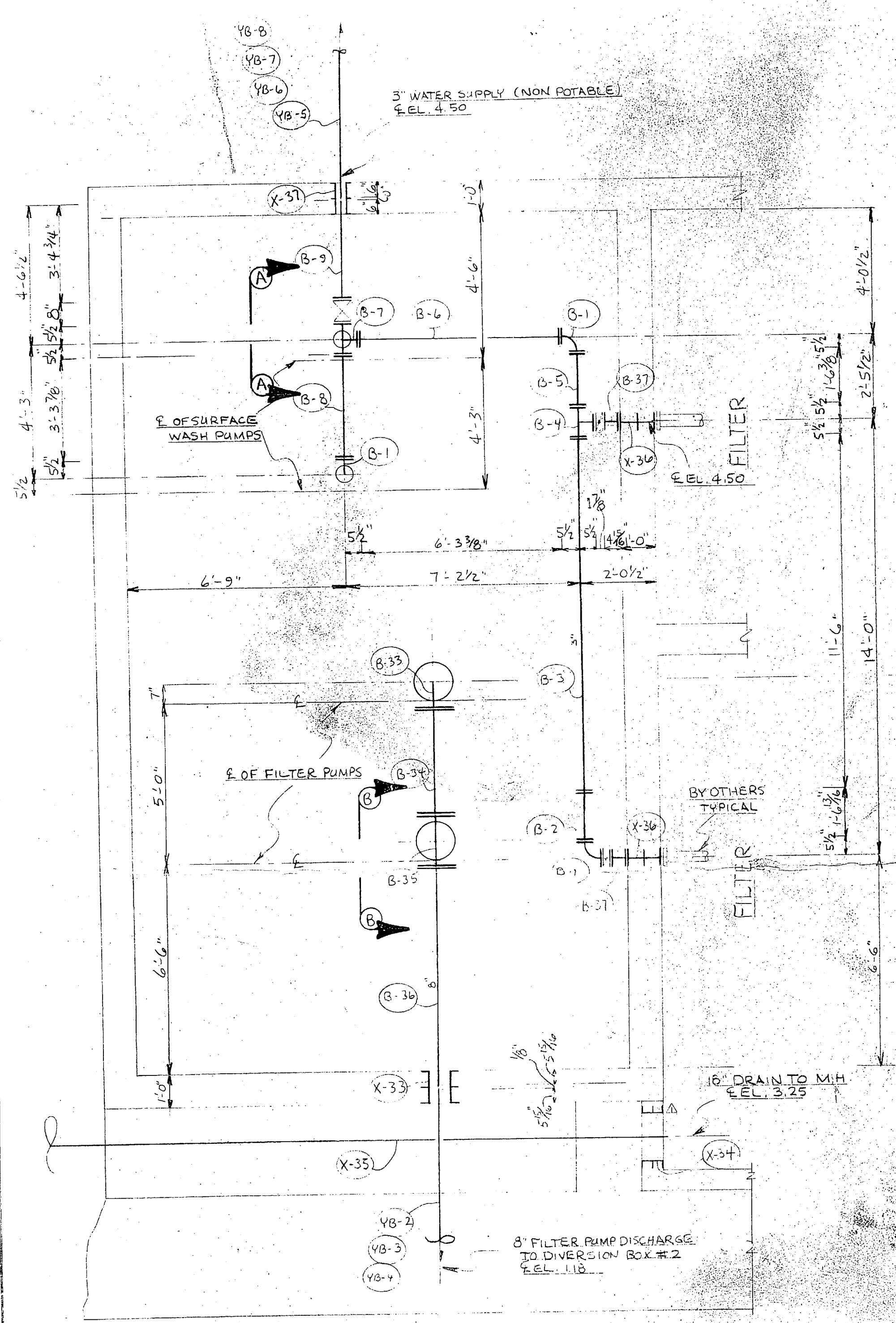
FOR PEABODY PIPE & MFG. CO.
SUBJECT: MCAS, (MATERIALS) UTILIZED FOR
DETAIL: NEW PUMPING STATION NEW
WELLS N.P. & O. AND O & R
WATER BODY REPAIRS

THIS DRAWING IS A SERVICE TO THE CUSTOMER AS AN AID IN DEVELOPING THE EXACT ITEMS OF PIPE AND FITTINGS NEEDED. IT CANNOT BE GUARANTEED FOR CORRECTNESS OF DESIGN OR DIMENSIONS. IT IS THE RESPONSIBILITY OF THE PURCHASER TO VERIFY ALL DETAILS. ON RECEIPT OF A PRINT WITH CHANGES DESIRED NOTED THEREON, DRAWING WILL BE REVISED AND PRINTS OF THE REVISED DRAWING FURNISHED.

MADE IN U.S.A.
CHECKED BY: [Signature]
REVISED BY: [Signature]
DATE: [Date]

ES-640-E
SHEET 5 OF 5





VALVES
 X GATE
 X PLUG
 X BUTTERFLY
 X GLOBE
 X CHECK

JOINT ALLOWANCE
 FLG. 1/16" M.I. 1/4" HORIZ. ONLY
 (V) MATERIALS ON ORDER
 USE @ ENG. SHEETS 66-68.

THIS DRAWING IS A SERVICE TO THE CUSTOMER AS AN AID IN DEVELOPING THE EXACT ITEMS OF PIPE AND FITTINGS NEEDED. IT CANNOT BE GUARANTEED FOR CORRECTNESS OF DESIGN OR DIMENSIONS. IT IS THE RESPONSIBILITY OF THE PURCHASER TO VERIFY ALL DETAILS. ON RECEIPT OF A PRINT WITH CHANGES DESIRED NOTED THEREON, DRAWING WILL BE REVISED AND PRINTS OF THE REVISED DRAWING FURNISHED.

DESCRIPTION		QUANTITY		MATERIALS	
FLANGES F10125					
UNDER CONCRETE MATERIALS					
X-32	3	12" WALL SLEEVE 12" LG. 1/2" CTR.			
X-33	1	8" WALL SLEEVE 12" LG. 1/2" CTR.			
X-34	2	15" WALL SLEEVE 3" LG. 1/2" CTR.			
X-35	2	18" WALL SLEEVE 4" LG. 1/2" CTR.			
X-36	2	3" WALL SLEEVE 7" LG. TAP BOTH ENDS			
X-37	1	3" WALL SLEEVE 7" LG. TAP			
X-38	1	12" WALL SLEEVE 12" LG. 1/2" CTR.			
X-40	1	12" WALL SLEEVE 12" LG. 1/2" CTR.			
B-1	3	3" FLG. 90° ELB. 12" CF.			
B-2	1	3" x 1/2" 90° ELB. FF PIPE			
B-3	1	3" x 1" 90° ELB. FF PIPE			
B-4	1	3" FLG. TEE 90° CF.			
B-5	1	3" x 1/2" 90° ELB. FF PIPE			
B-6	1	3" x 1/2" 90° ELB. FF PIPE			
B-7	1	3" FLG. 90° ELB. 3" x 1/2" CTR.			
B-8	1	3" x 3/4" 90° ELB. FF PIPE			
B-9	1	3" x 1/2" 90° ELB. FF PIPE NOGA			
B-10	2	3" x 5/8" 90° ELB. FF PIPE			
B-11	2	4" x 3" FLG. REDUCER 7" LG.			
B-12	2	4" BLIND FLANGE TAP 1/2" CTR.			
B-13	1	4" x 1-3/4" 90° ELB. FF PIPE			
B-14	2	4" FLG. 90° ELB. 6" LG. CF.			
B-15	1	4" x 2" 90° ELB. FF PIPE			
B-16	1	4" FLG. 90° ELB. 4" FLG. 5.0" 6" LG. CF.			
B-17	1	4" x 3" 90° ELB. FF PIPE			
B-18	2	4" x 2" FLG. REDUCER 7" LG.			
B-19	2	12" x 8" FLG. REDUCER 11" LG.			
B-20	2	12" FLG. TEE 12" CF.			
B-21	2	12" x 8" FLG. REDUCER 14" LG.			
B-22	2	8" x 6" FLG. REDUCER 11" LG.			
B-23	2	12" FLG. 90° ELB. 12" CF.			
B-24	1	12" x 8" FLG. REDUCER 14" LG.			
B-25	1	12" x 8" FLG. REDUCER 14" LG.			
B-26	1	12" FLG. 90° ELB. 12" CF.			
B-27	1	12" x 8" FLG. REDUCER 14" LG.			
B-28	2	14" x 12" FLG. REDUCER 16" LG.			
B-29	1	12" x 8" FLG. REDUCER 14" LG.			
B-30	1	12" x 8" FLG. REDUCER 14" LG.			
B-31	2	8" x 6" FLG. REDUCER 11" LG.			
B-33	1	8" FLG. 90° ELB. 12" CF.			
B-34	1	8" x 5" 90° ELB. FF PIPE			
B-35	1	8" FLG. 90° ELB. 12" CF.			
B-36	1	8" x 6" FLG. REDUCER 11" LG.			
B-37	2	8" x 6" FLG. REDUCER 11" LG.			
SHEET 66					
YARD PIPING EFFLUENT TO DECAINT BASIN					
YB-1	3	10" x 20" 90° ELB. FF PIPE DUCTILE			
FILTER PUMP DISCHARGE					
YB-2	10	8" x 20" 90° ELB. FF PIPE			
YB-3	1	8" M.J. 90° ELB.			
YB-4	2	8" M.J. 45° ELB.			
WATER SUPPLY					
YB-5	17	3" x 1/2" 90° ELB. FF PIPE			
YB-6	1	3" M.J. 90° ELB.			
YB-7	2	3" M.J. 90° ELB. HUB TAP 3/4"			
YB-8	1	3" M.J. 90° ELB.			
NOTE: WATER SUPPLY LINE AND 3" SURFACE WASH DISCHARGE IF NOT CAST IRON.					
YB-2A	2	12" x 8" FLG. REDUCER 14" LG.			
B-31A	2	8" x 6" FLG. REDUCER 14" LG.			
B-38	2	8" x 4" FLG. REDUCER 11" LG.			
B-39	2	6" x 4" FLG. REDUCER 9" LG.			
B-40	2	6" x 4" FLG. REDUCER 9" LG.			
B-41	2	12" x 8" FLG. REDUCER 14" LG.			

AMERICAN CAST IRON PIPE COMPANY
 P. O. BOX 2727 BIRMINGHAM, ALABAMA, 35202

FOR PEABODY PETERSEN CO.
 SUBJECT: WATER (SEWAGE) UTILITIES EXP.
 DETAIL: SURFACE TREATMENT PLANT
 CLASS: FILTER, PLAN OF SURFACE
 WALL & FILTER PUMP PIPING

MADE IN U.S.A.
 STANDARD AND SPECIAL COATINGS
 CONCRETE, BRICK, SAND AND GRAVEL
 CEMENT LINING AND SPECIAL
 FINISHES
 American Cast Iron Pipe and
 Foundry Co.

ES-649-B
 SHEET 2 OF 11

