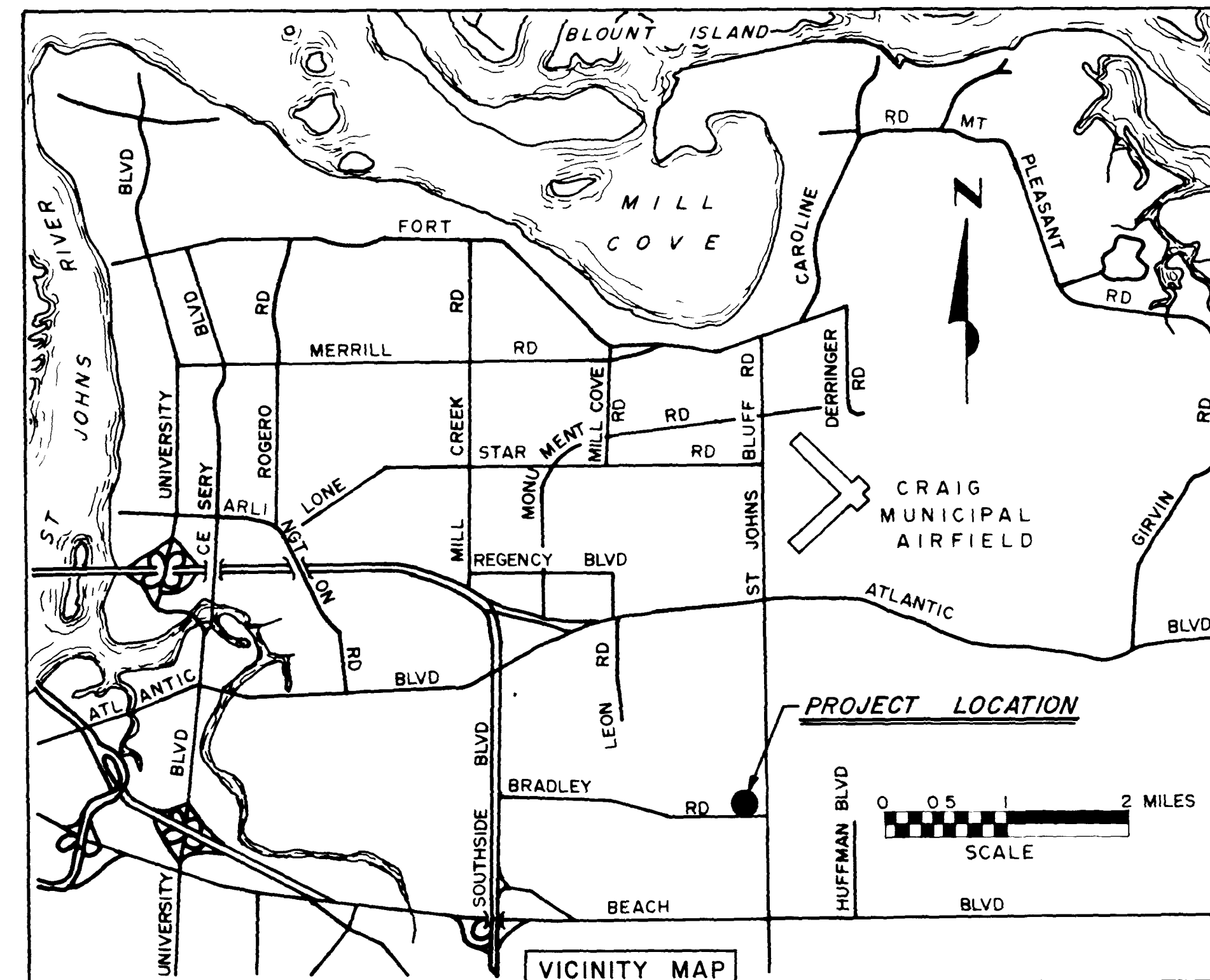


CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
PHASE 3

ST. JOHNS BLUFF MASTER PUMPING STATION

JS NO. 40.7



SANITARY APPROVED
DATE 10-28-81 BY MB
DEPARTMENT OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

HANS G. TANZLER, JR.
MAYOR

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT JACKSONVILLE, FLORIDA

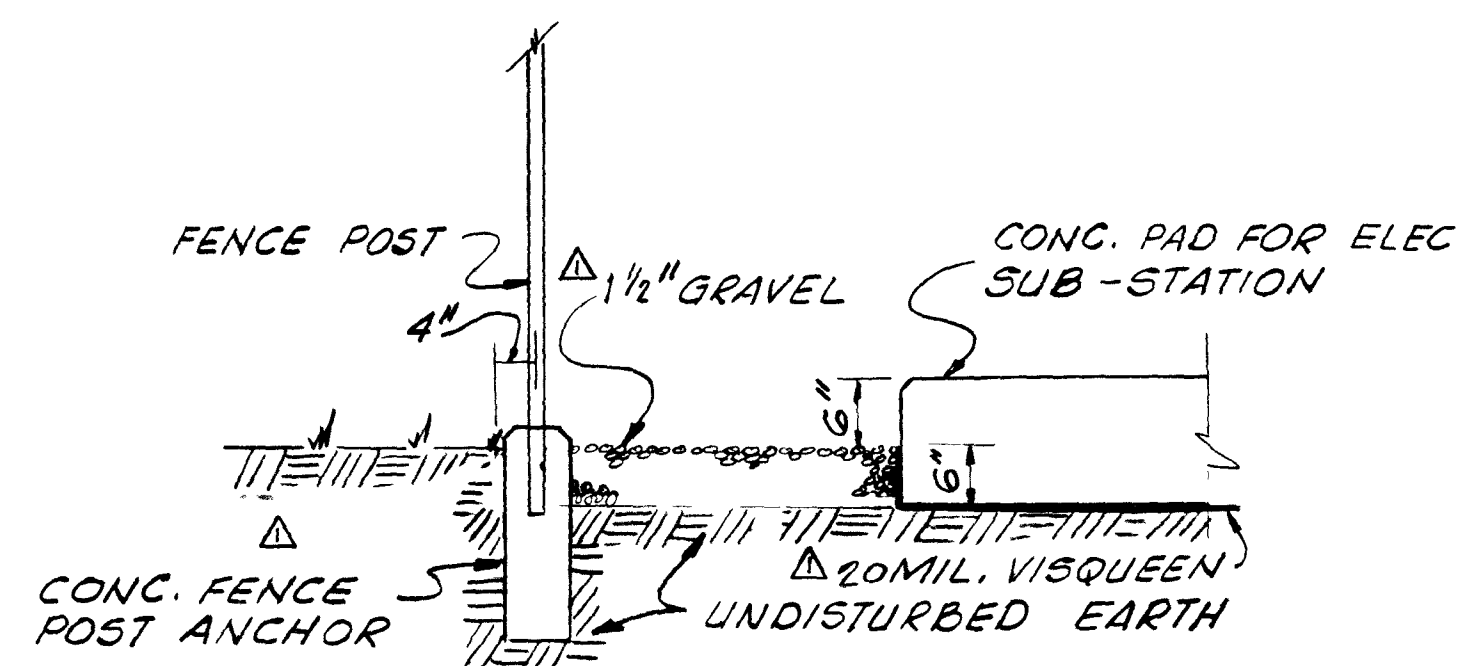
SVERDRUP & PARCEL AND ASSOCIATES, INC.
GENERAL CONSULTANT JACKSONVILLE, FLORIDA

ENVIRONMENTAL PROTECTION AGENCY NO. C120541010 - PART A

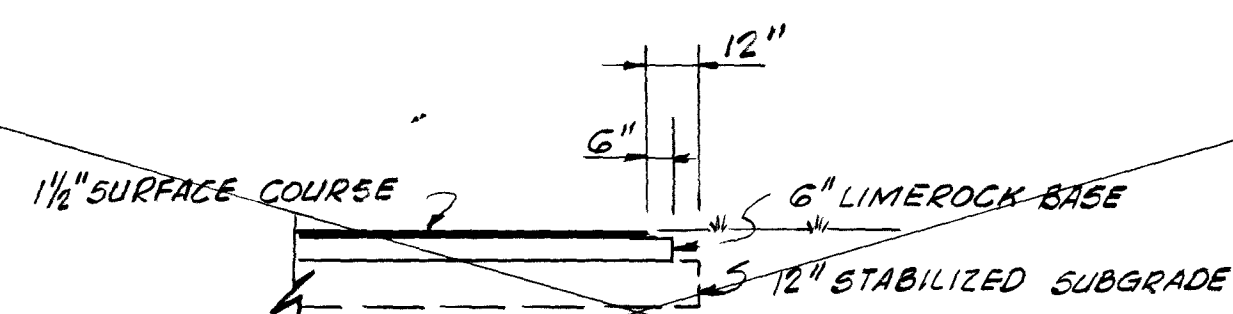
AS BUILT
OCT. 1981

James S. English
12895

SEPTEMBER 1976



GRAVEL BED DETAIL
N.T.S.



TYP. PAVEMENT SEC.

1 1/2" ASPHALTIC CONCRETE SURFACE COURSE - D.O.T. FLORIDA TYPE 5-1, SEE SPECS.
6" COMPACTED LIMEROCK BASE, 100% OF MAX. DENSITY PER ASTM D-1557-70, STABILIZE TO LBR 70
5" STABILIZED SUBGRADE MIN 98% DENSITY AS PER ASTM D-693-70, STABILIZE TO LBR 40

LEGEND

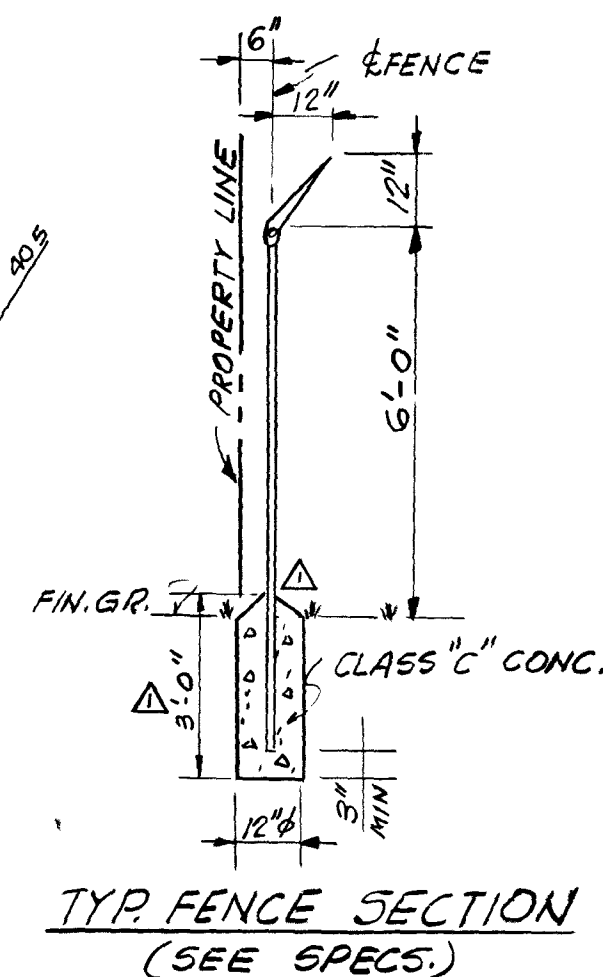
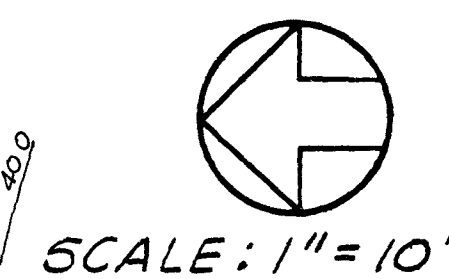
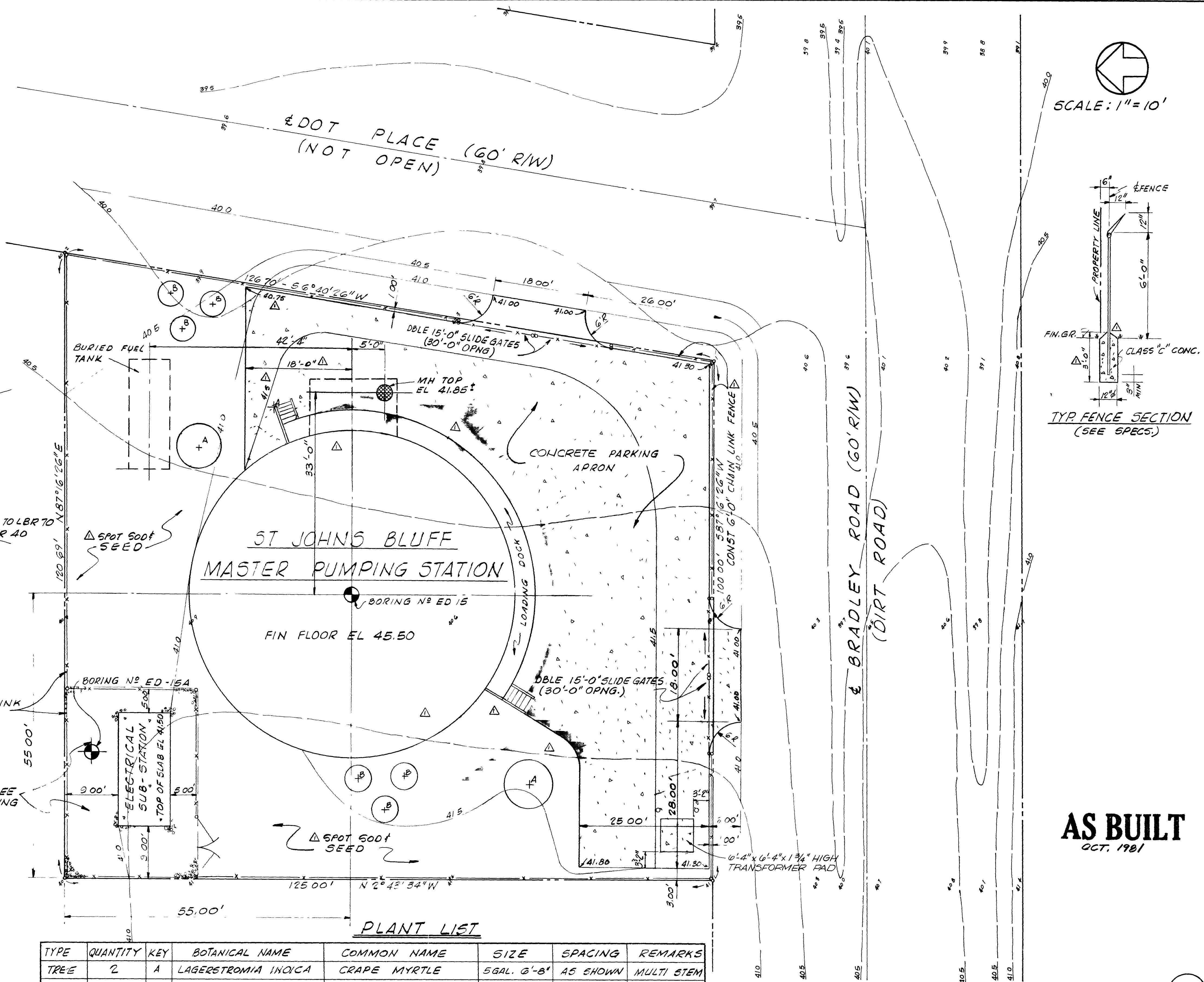
40.5	EXISTING CONTOURS
40.5	NEW CONTOURS
40.5	EXISTING SPOT ELEVATIONS
42.20	NEW SPOT ELEVATIONS
□	NEW CONC PAVING
XXXX	NEW ASPHALT PAVING

NOTE:

BENCH MARK - R.R. SPIKE IN POWER POLE 200'± EAST OF SOUTH EAST PUMPING STATION PROPERTY CORNER, ON SOUTH SIDE OF BRADLEY ROAD R/W. ELEV. 41.60 (U.S.C. & G.S. DATUM)

CONST. 6'-0" CHAIN-LINK FENCE - SEE SPECS

GRAVEL BED - SEE DETAIL THIS DRAWING



AS BUILT
OCT. 1981

PLANT LIST

TYPE	QUANTITY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
TREE	2	A	LAGERSTROMIA INOICA	GRAPE MYRTLE	5 GAL. 6'-8"	AS SHOWN	MULTI STEM
SHRUB	6	B	VIBURNUM RUFIDULUM	VIBURNUM	5 GAL.	AS SHOWN	

SUBMITTED BY <i>James D. English</i>		DATE 9-78		FLOOD & ASSOCIATES, INC.	
REG ENGR FLA NO 6847		DATE 9-78		FLOOD & ASSOCIATES, INC.	
APPROVED BY <i>James D. English</i>		DATE 9-78		FLOOD & ASSOCIATES, INC.	
REG ENGR FLA NO 14824		DATE 9-78		FLOOD & ASSOCIATES, INC.	
SVERDRUP & PARCEL AND ASSOCIATES, INC.		DATE 9-78		FLOOD & ASSOCIATES, INC.	

APPROVED BY <i>James D. English</i>		DATE 9-78		FLOOD & ASSOCIATES, INC.	
REG ENGR FLA NO 14824		DATE 9-78		FLOOD & ASSOCIATES, INC.	
SVERDRUP & PARCEL AND ASSOCIATES, INC.		DATE 9-78		FLOOD & ASSOCIATES, INC.	

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM

ST JOHNS BLUFF MASTER PUMPING STATION

FLOOD & ASSOCIATES, INC.

DESIGN CONSULTANT

SVERDRUP & PARCEL AND ASSOCIATES, INC. - GENERAL CONSULTANT

DETAILED BY *J.R.H.*
CHECKED BY *R.V.T.*

SCALE **AS SHOWN**

DATE **SEPT 1978**

12897

SITE PLAN

CONTR NO **JS-407**

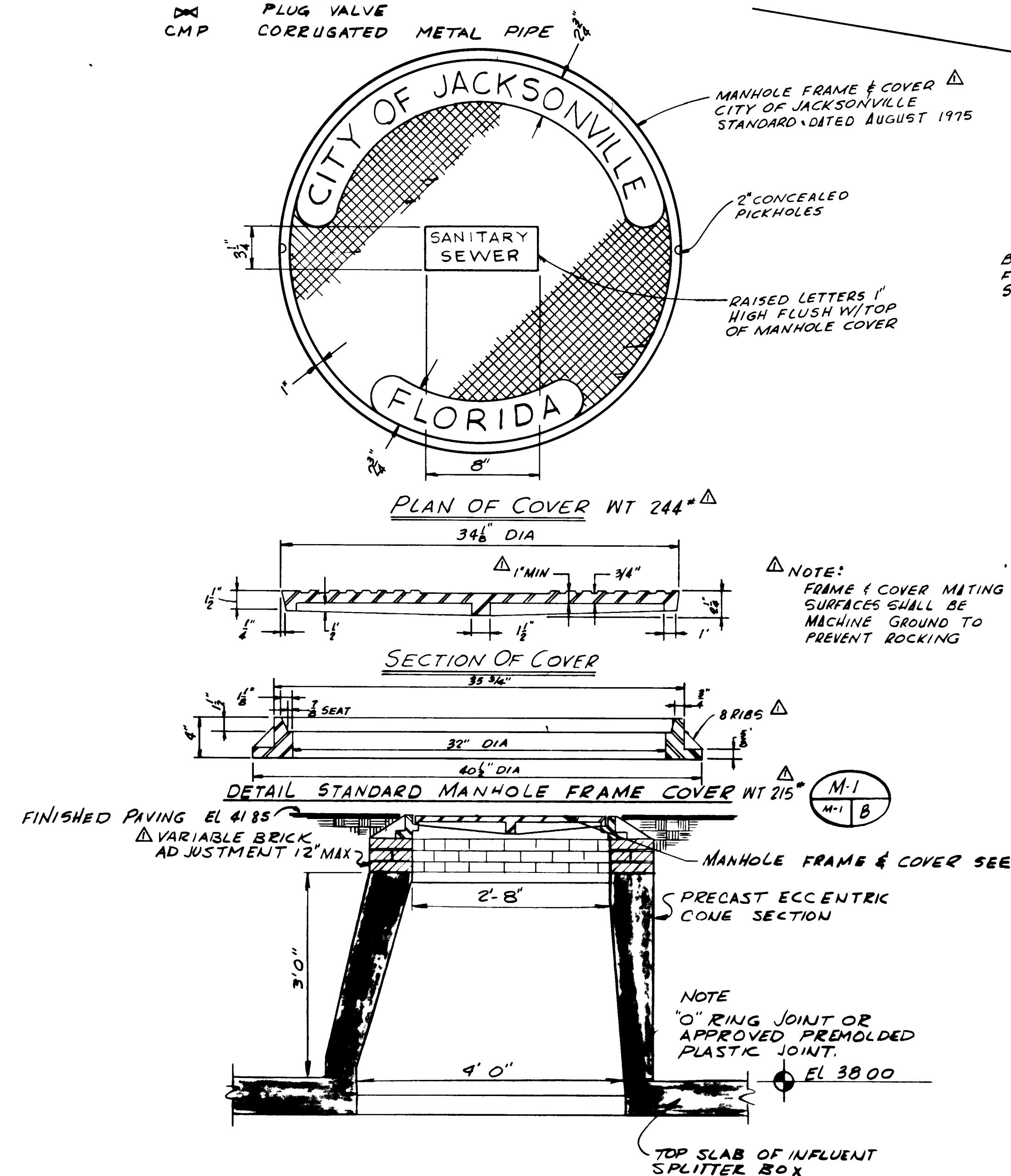
PROJ NO **7316**

SHEET NO **3** OF **42**

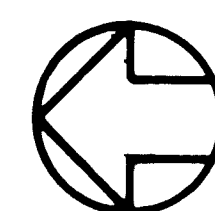
G-1

LEGEND

W-	POTABLE WATER
V.C.	VITRIFIED CLAY PIPE
GV	GATE VALVE
CV	CHECK VALVE
RCP	REINFORCED CONCRETE PIPE
C.I.	CAST IRON
D.I.	DUCTILE IRON
L.R.	LONG RADIUS
M.J.	MECHANICAL JOINT
	GATE VALVE
	CHECK VALVE
	PLUG VALVE
CMP	CORRUGATED METAL PIPE



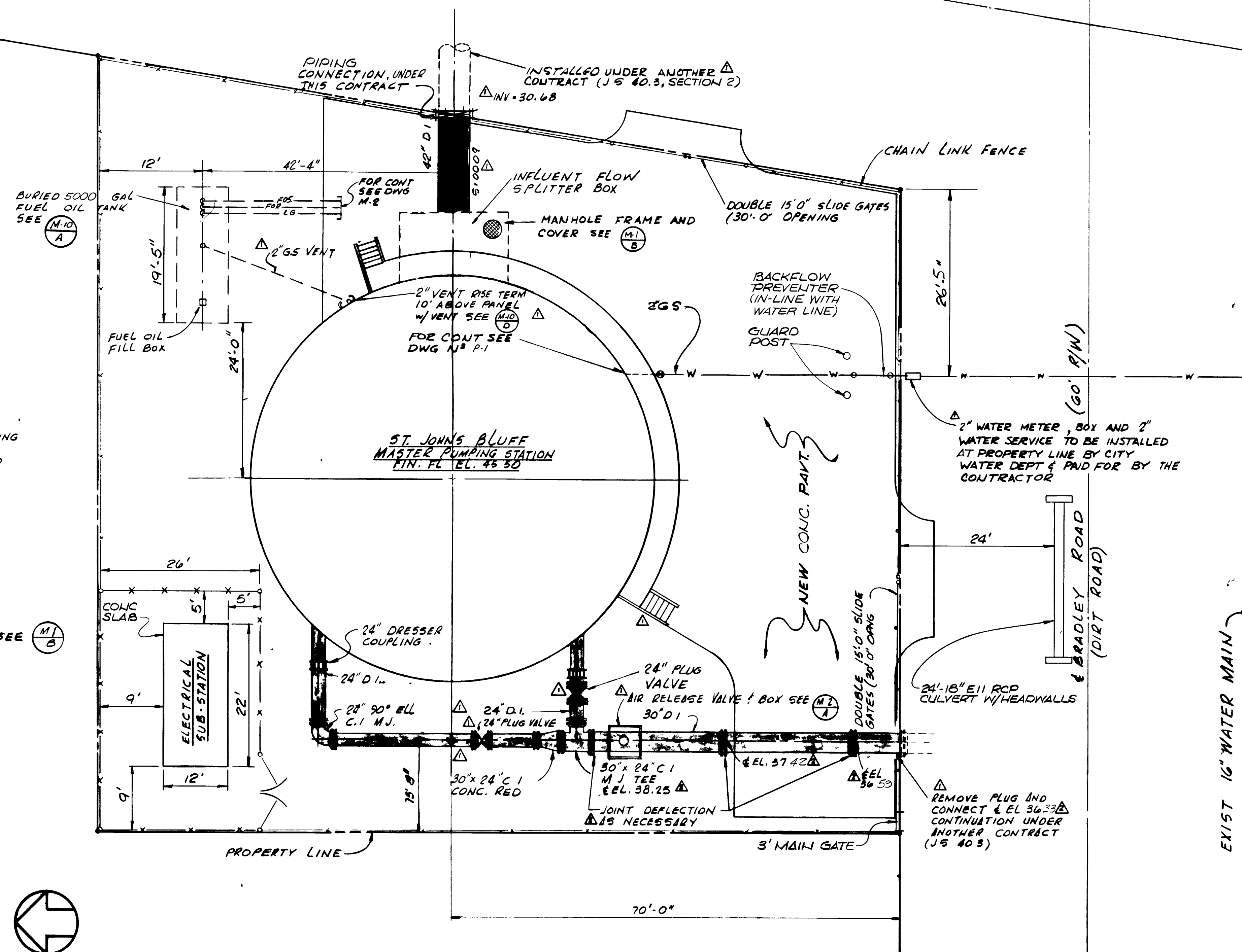
PRECAST MANHOLE CONE SECTION
NOT TO SCALE



MECHANICAL SITE PLAN

SCALE: 1" = 10'

£ DOT PLACE (60' R/W)



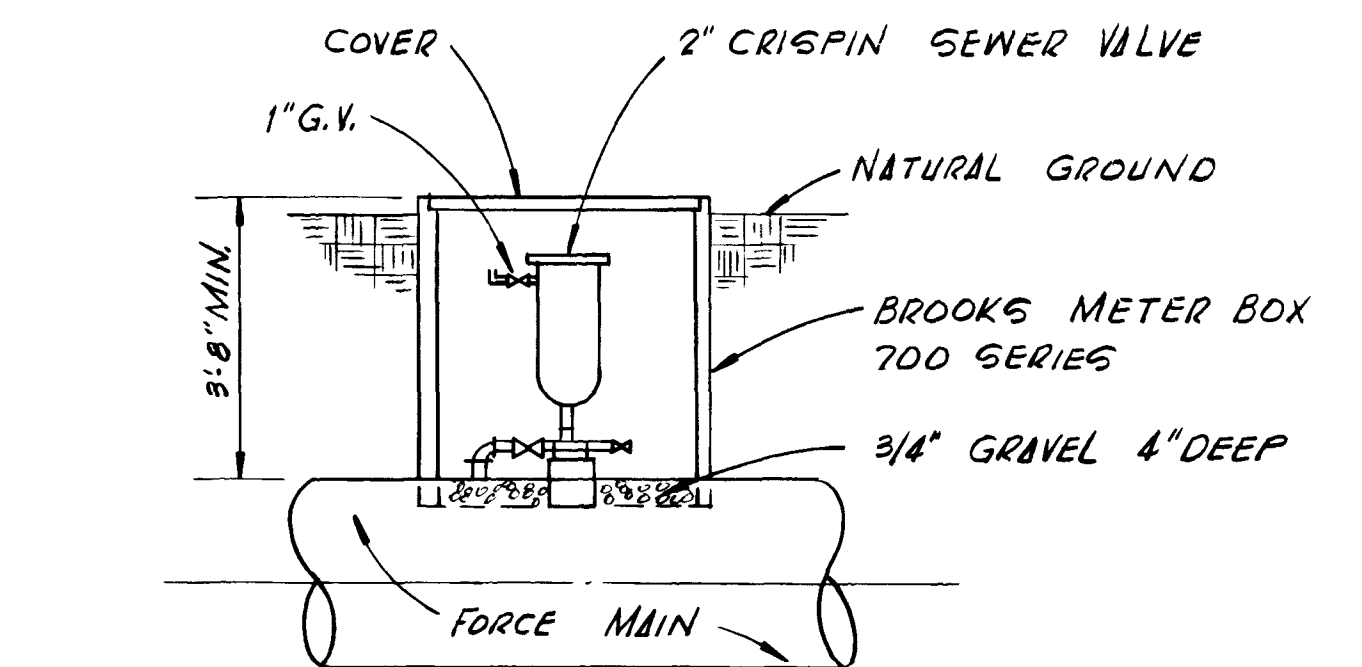
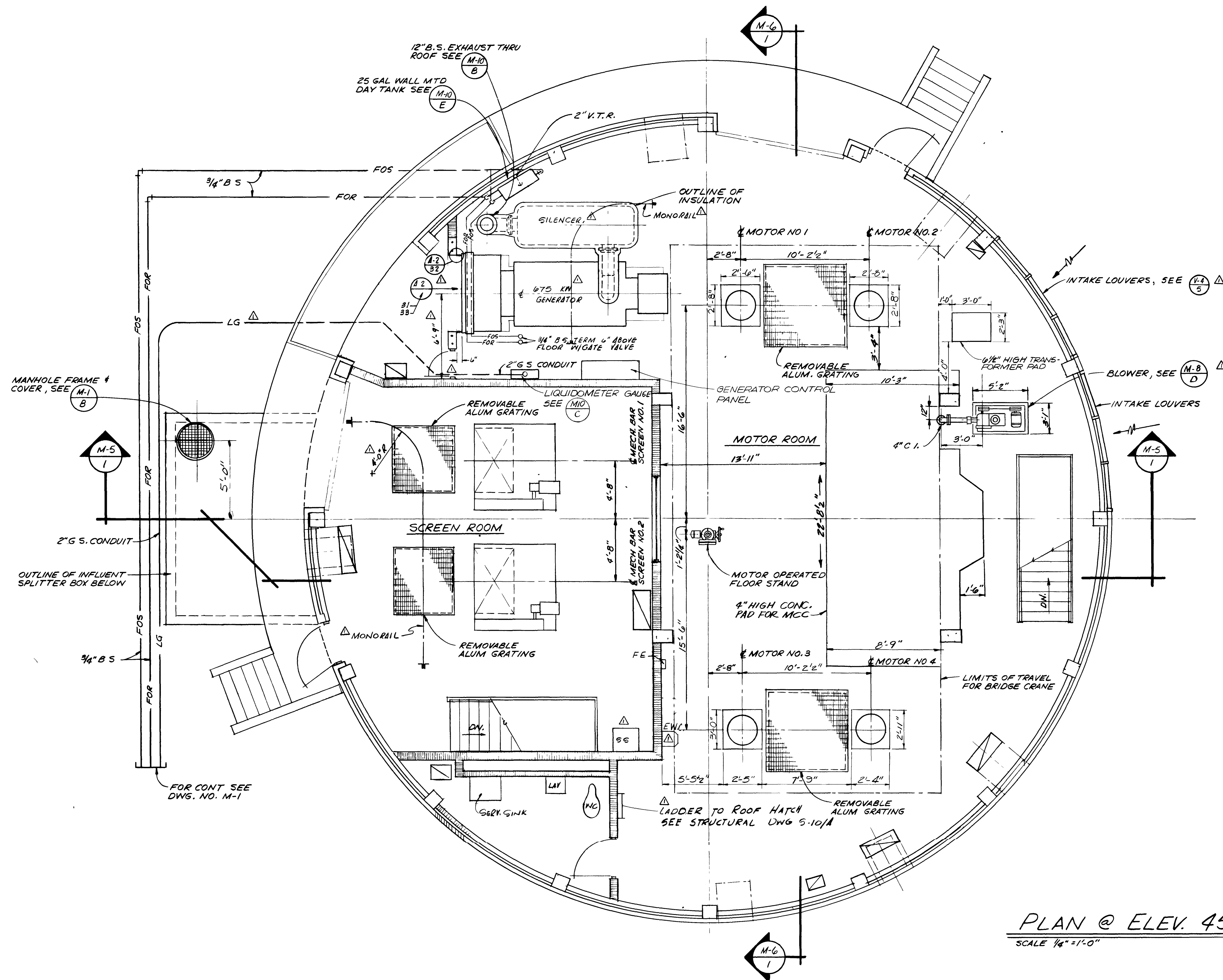
EXIST 1/2" WATER MAIN -

12898

AS BUILT
OCT. 1981

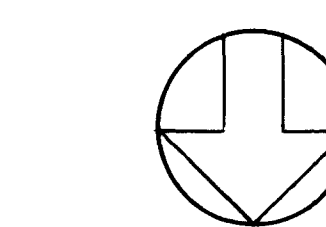
(M-

[illegible]



DETAIL - TYPICAL AIR RELEASE VALVE
N.T.S.

PLAN @ ELEV. 45.50
SCALE 1/4" = 1'-0"

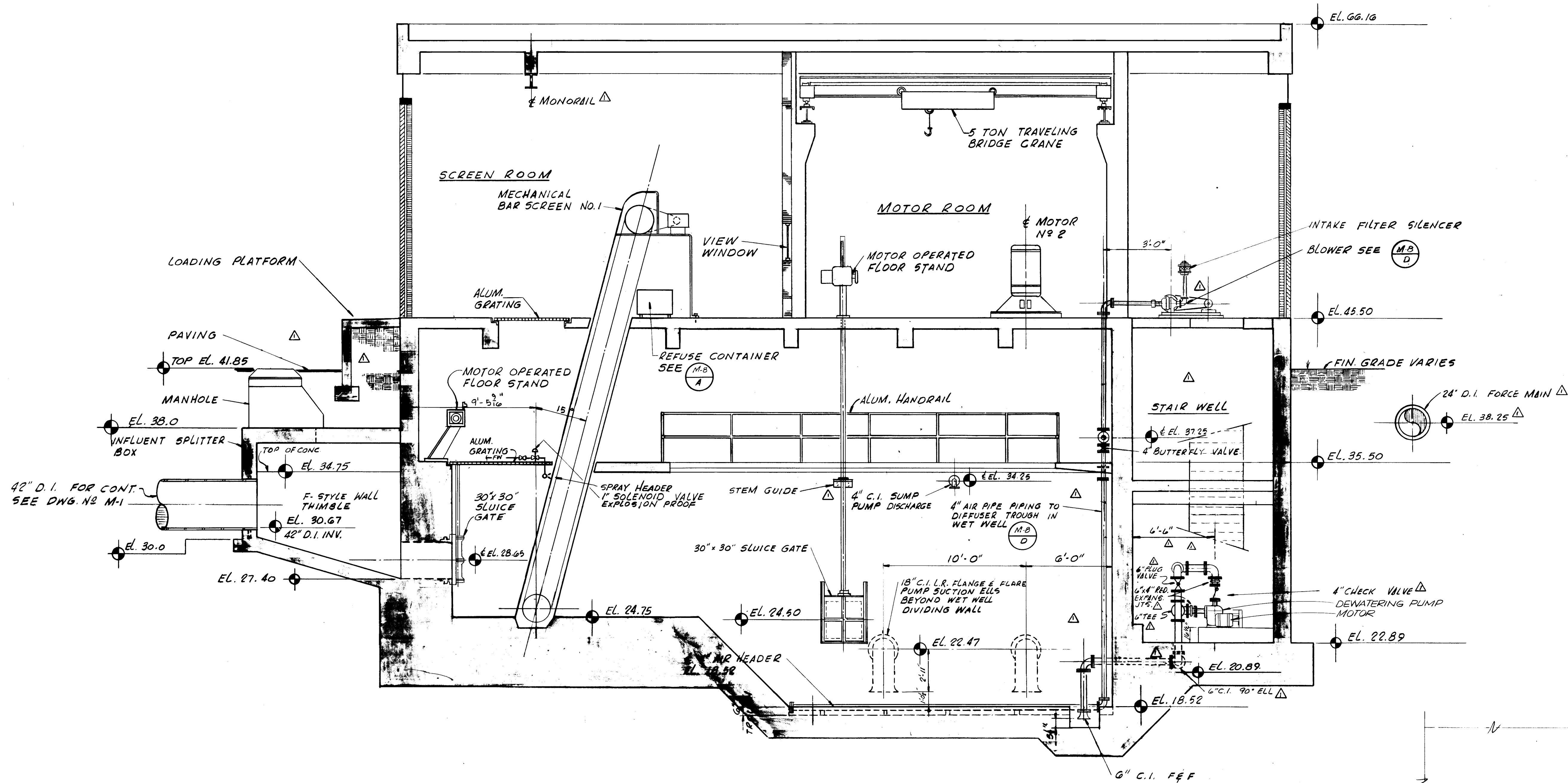


12899

AS BUILT
OCT, 1981

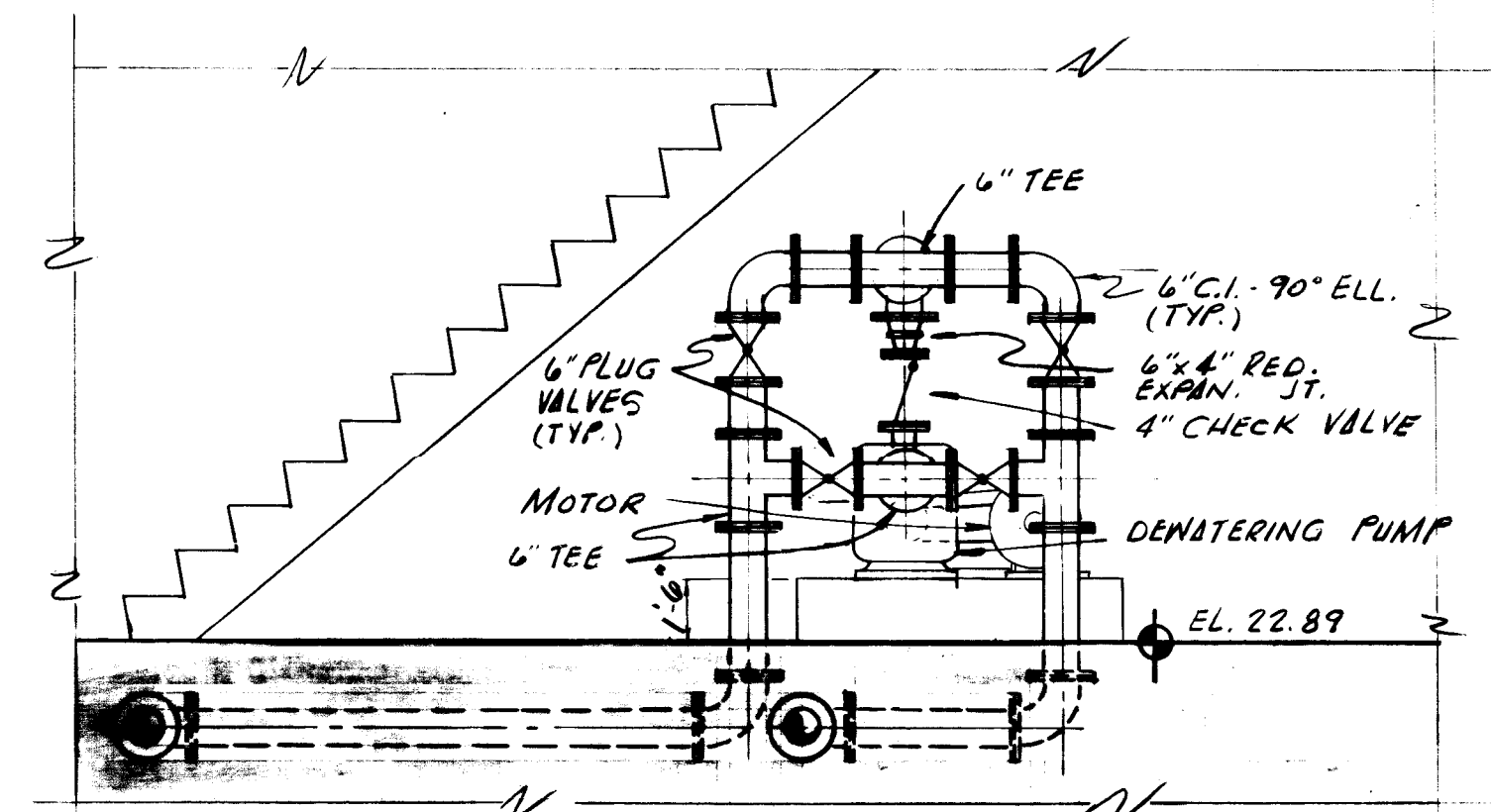
M-2

SUBMITTED BY <i>James S. English</i> REG ENGR FLA NO. 6847 DATE 9/76 FLOOD & ASSOCIATES, INC.						APPROVED BY _____ REG ENGR FLA NO. _____ DATE _____ WATER AND SEWER DIVISION						CITY OF JACKSONVILLE, FLORIDA						FLOOD & ASSOCIATES, INC.						PLAN AT ELEV 45.50					
APPROVAL RECOMMENDED BY <i>James S. English</i> REG ENGR FLA NO. 14824 DATE 3-22-78 SVERDRUP & PARCEL AND ASSOCIATES, INC.						AUTHORIZED BY <i>James S. English</i> REG ENGR FLA NO. 6847 DATE 9/76 OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE FLORIDA						SEWERAGE IMPROVEMENT PROGRAM ST JOHNS BLUFF MASTER PUMPING STATION						DESIGN CONSULTANT						SVERDRUP & PARCEL AND ASSOCIATES, Inc -- GENERAL CONSULTANT					
PRE BID REVISION						BY <i>JB</i> F&A 9/77						DATE 3/78						JWD SCALE AS SHOWN						DATE SEPT 1976					
NO DESCRIPTION						BY FIRM DATE S&P DATE PW DATE						SUBMITTAL						CHECKED BY B A B						CONTR NO JS 40 7					
REVISIONS						SUBMITTAL						APPROVAL						PROJ NO 7316						SHEET NO 5 OF 42					



SECTION
SCALE: 1/4"=1'-0"

M-5
M-2 1



AS BUILT 12902
OCT. 1981

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

M-5
M-4 2

M-5
M-4 2

SUBMITTED BY: <i>James J. Engle</i>		REG. ENGR. FLA. NO. 6847		DATE 9-76	
FLOOD & ASSOCIATES, INC.		REG. ENGR. FLA. NO. 14824		DATE 9-76	
APPROVAL		BY: <i>James J. Engle</i>		DATE 9-76	
RECOMMENDED BY: <i>James J. Engle</i>		DATE 9-76		DATE 9-76	
SVERDRUP & PARCEL AND ASSOCIATES, INC.		REG. ENGR. FLA. NO. 14824		DATE 9-76	

APPROVED BY: _____
REG. ENGR. FLA. NO. _____ DATE _____
WATER AND SEWER DIVISION
AUTHORIZED BY: *James J. Engle*
DATE 9-76
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
ST. JOHNS BLUFF
MASTER PUMPING STATION

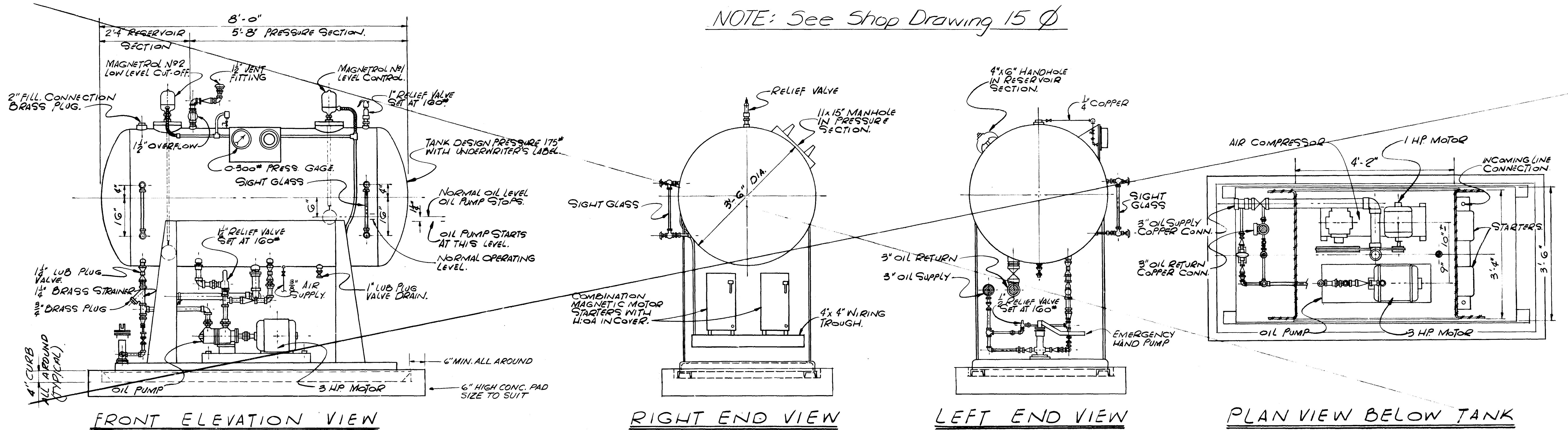
FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. — GENERAL CONSULTANT
DETAILED BY: CD
SCALE SHOWN
DATE SEPT. 1976
CHECKED BY: BAB

LONGITUDINAL SECTION

CONTR. NO. JS-40.7

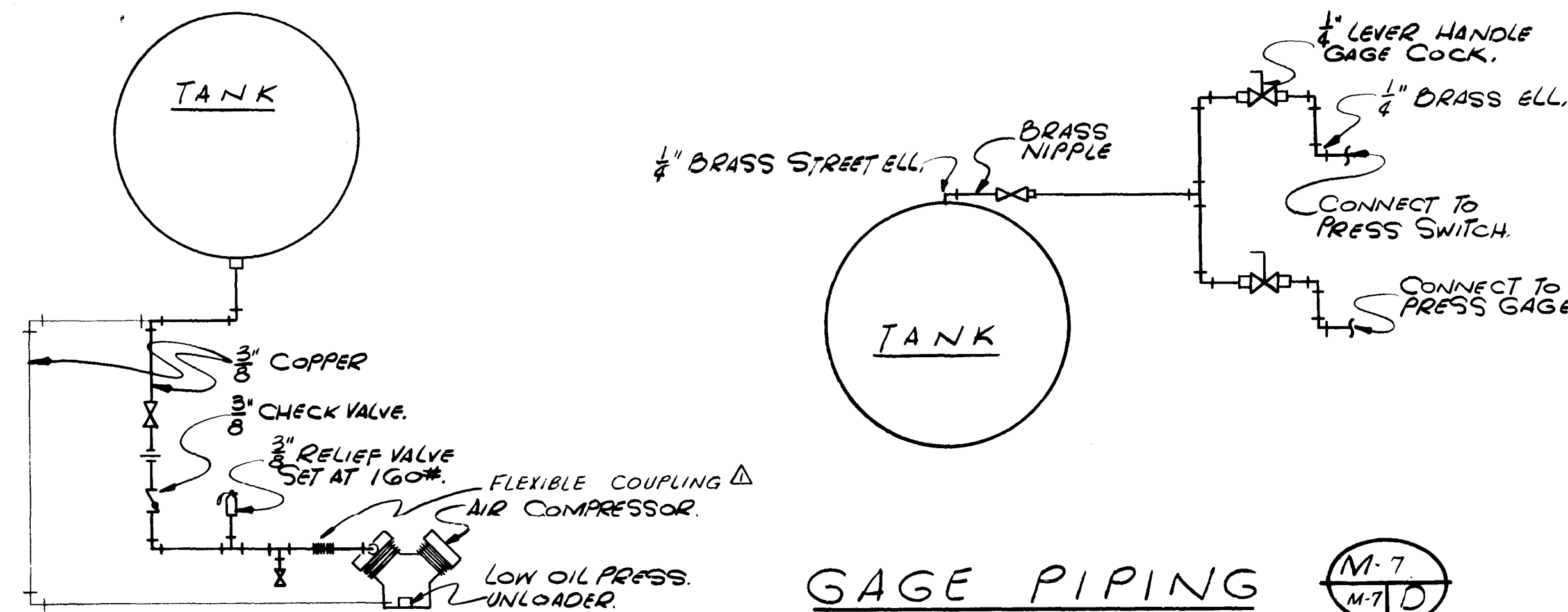
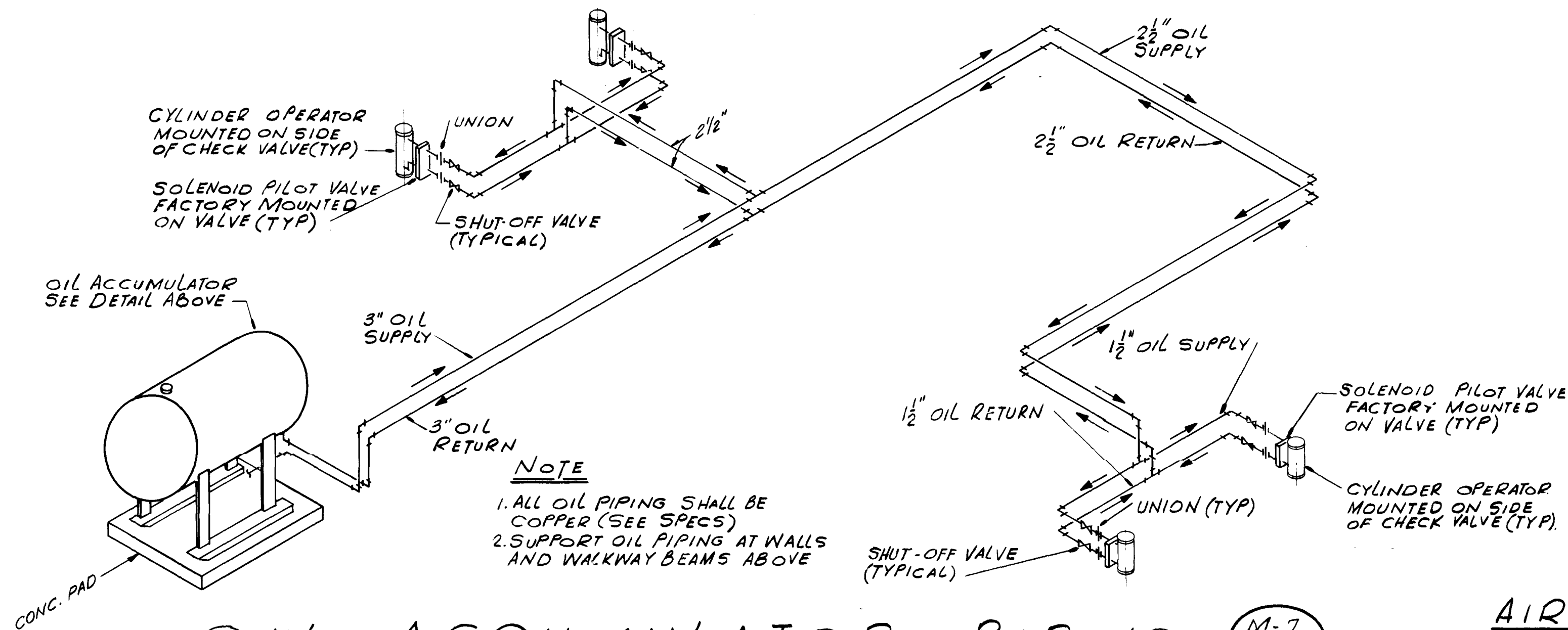
PROJ. NO. 7316

SHEET NO. 8 OF 42



DETAIL OIL ACCUMULATOR

SCALE: $\frac{3}{4}$ " = 1'-0"



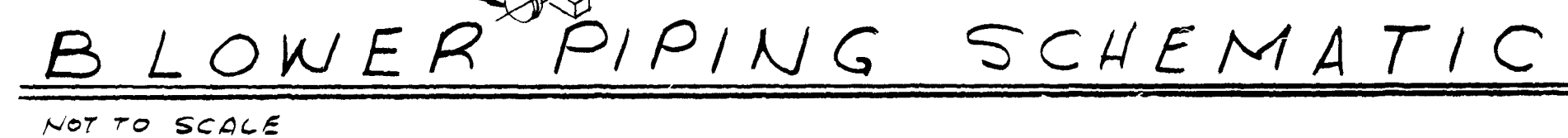
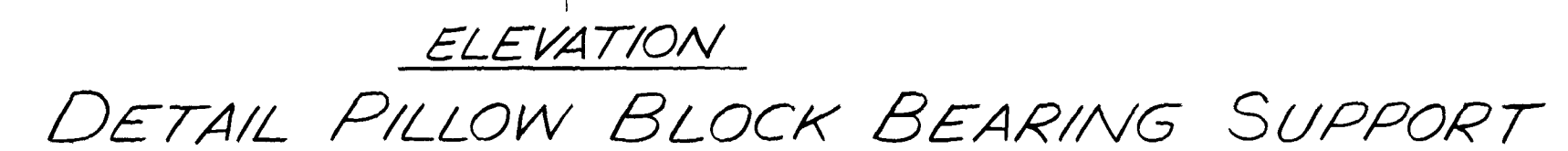
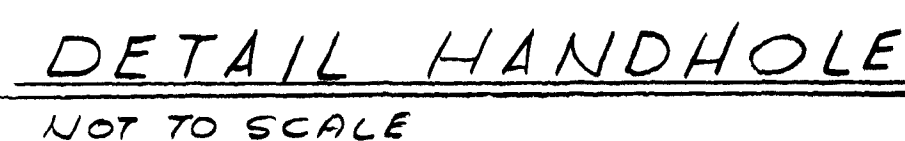
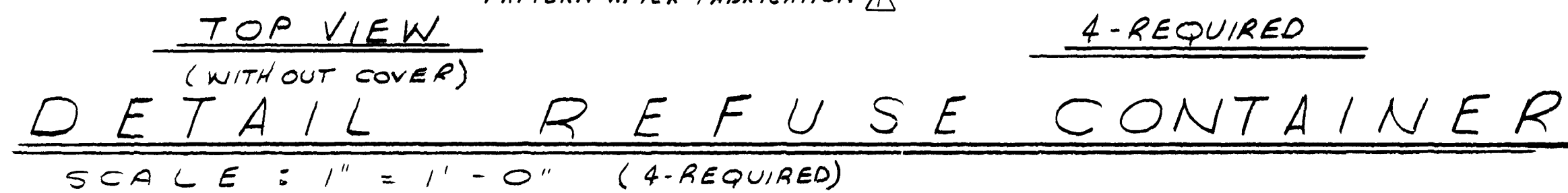
GAGE PIPING SCHEMATIC

NOT TO SCALE:

12904

AS BUILT
OCT. 1981

										SUBMITTED BY <u>James S. England</u> REG. ENGR. FLA. NO. <u>6847</u> DATE <u>9/76</u> FLOOD & ASSOCIATES, INC.										APPROVED BY: _____ REG. ENGR. FLA. NO. _____ DATE _____ WATER AND SEWER DIVISION AUTHORIZED BY: <u>John V. Hays</u> REG. ENGR. FLA. NO. <u>9270</u> DATE <u>9/76</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										CITY OF JACKSONVILLE, FLORIDA										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT										OIL ACCUMULATOR DETAILS									
										APPROVAL RECOMMENDED BY <u>John S. Hays</u> REG. ENGR. FLA. NO. <u>11264</u> DATE <u>3-28-78</u> SVERDRUP & PARCEL AND ASSOCIATES, INC.										SEWERAGE IMPROVEMENT PROGRAM ST. JOHNS BLUFF MASTER PUMPING STATION										SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT																													
PRE-BID REVISIONS										JB F&A 9/77-9 3/78 JAH BT/11																				SCALE AS SHOWN DATE SEPT. 1976																													
NO. DESCRIPTION										BY FIRM DATE S&P DATE PW DATE																				DETAILED BY: C.D.										CONTR. NO. <u>JS 40.7</u>																			
REVISIONS										APPROVAL																				CHECKED BY: <u>B.A.B.</u>										PROJ. NO. <u>7316</u>																			
																																								SHEET NO. <u>10</u> OF <u>42</u>																			



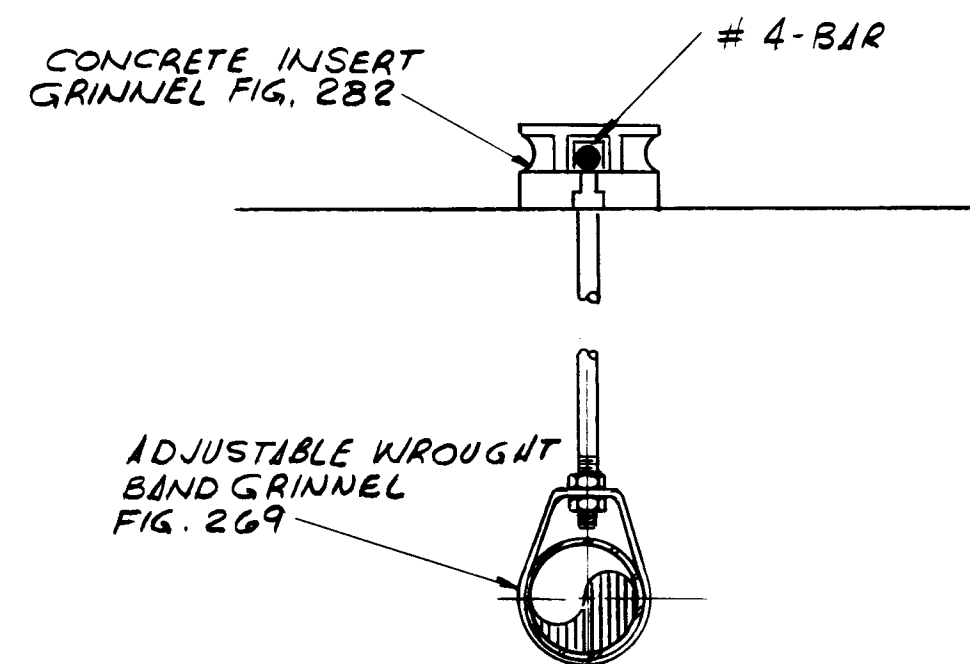
AS BUILT

OCT 1981

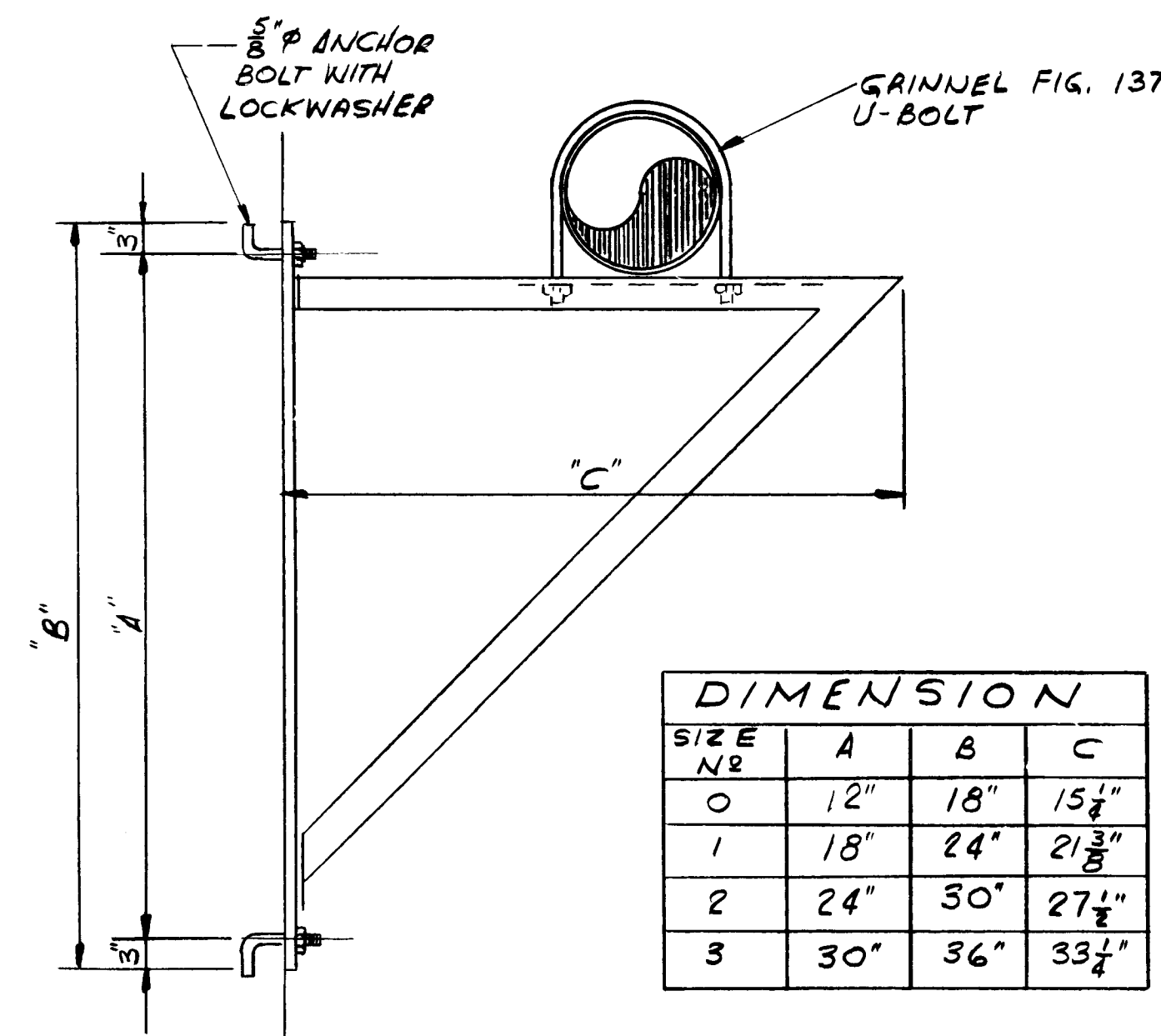
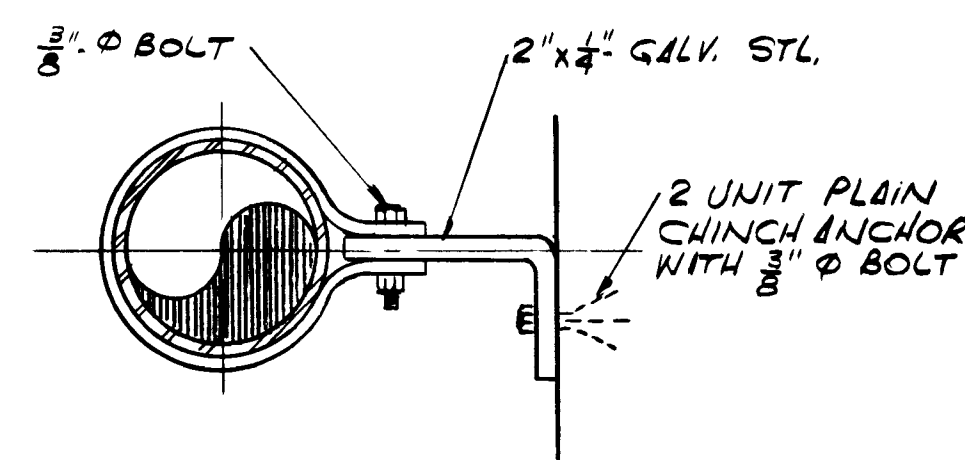
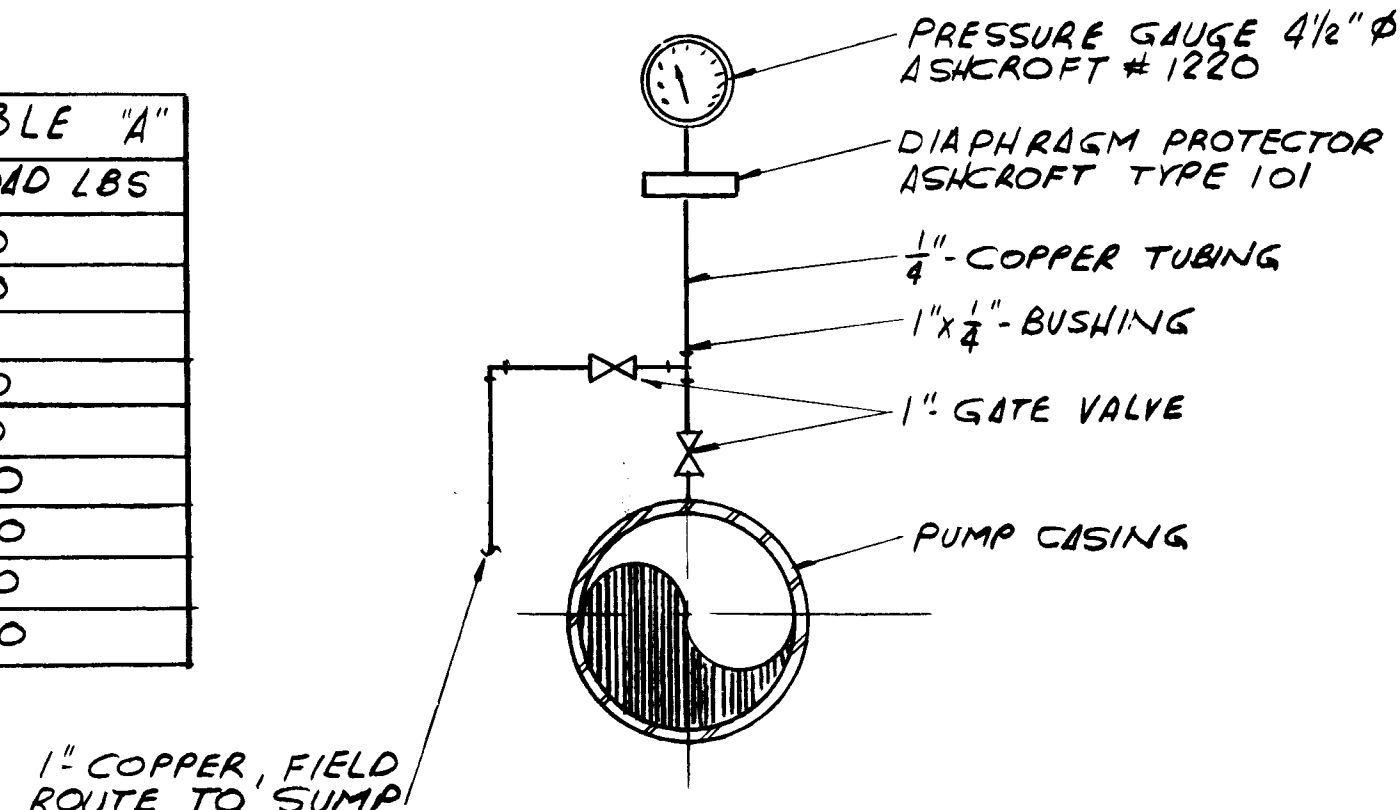
DETAIL PUMP SHAFT GUARD

NOT TO SCALE

										SUBMITTED BY <u>James A. Powell</u> REG ENGR FLA NO <u>6847</u> DATE <u>9/76</u> FLOOD & ASSOCIATES INC.										APPROVED BY _____ REG ENGR FLA NO _____ DATE _____ WATER AND SEWER DIVISION AUTHORIZED BY <u>W. H. H. H.</u> REG ENGR FLA NO _____ DATE _____ OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE FLORIDA										CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM ST JOHNS BLUFF MASTER PUMPING STATION										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT SVERDRUP & PARCEL AND ASSOCIATES, Inc. -- GENERAL CONSULTANT DETAILED BY <u>S.B.D.</u> SCALE <u>AS SHOWN</u> DATE <u>SEPT 1976</u> CHECKED BY <u>B.A.B.</u>										MISCELLANEOUS DETAILS CONTR NO <u>JS 407</u> PROJ NO <u>7316</u> SHEET NO <u>11</u> OF <u>42</u>									
PRE BID REVISION										JB F&A 9/77 3/78 JAH BB-16										APPROVAL RECOMMENDED BY <u>James A. Powell</u> REG ENGR FLA NO <u>14622</u> DATE <u>9-22-78</u> SVERDRUP & PARCEL AND ASSOCIATES INC.																																							
NO DESCRIPTION										BY FIRM DATE S&P DATE PW DATE																																																	
REVISIONS										SUBMITTAL APPROVAL																																																	



ROD LOAD - TABLE "A"	
ROD SIZE	MAX. LOAD LBS
3/8"	610
1/2"	1130
5/8"	1810
3/4"	2710
7/8"	3770
1"	4760
1 1/8"	6230
1 1/4"	8000
1 1/2"	11630



TYPICAL PIPE HANGER
FOR 3/4" TO 8"-PIPE DETAIL

NOT TO SCALE

TYPICAL PRESSURE
GAUGE DETAIL

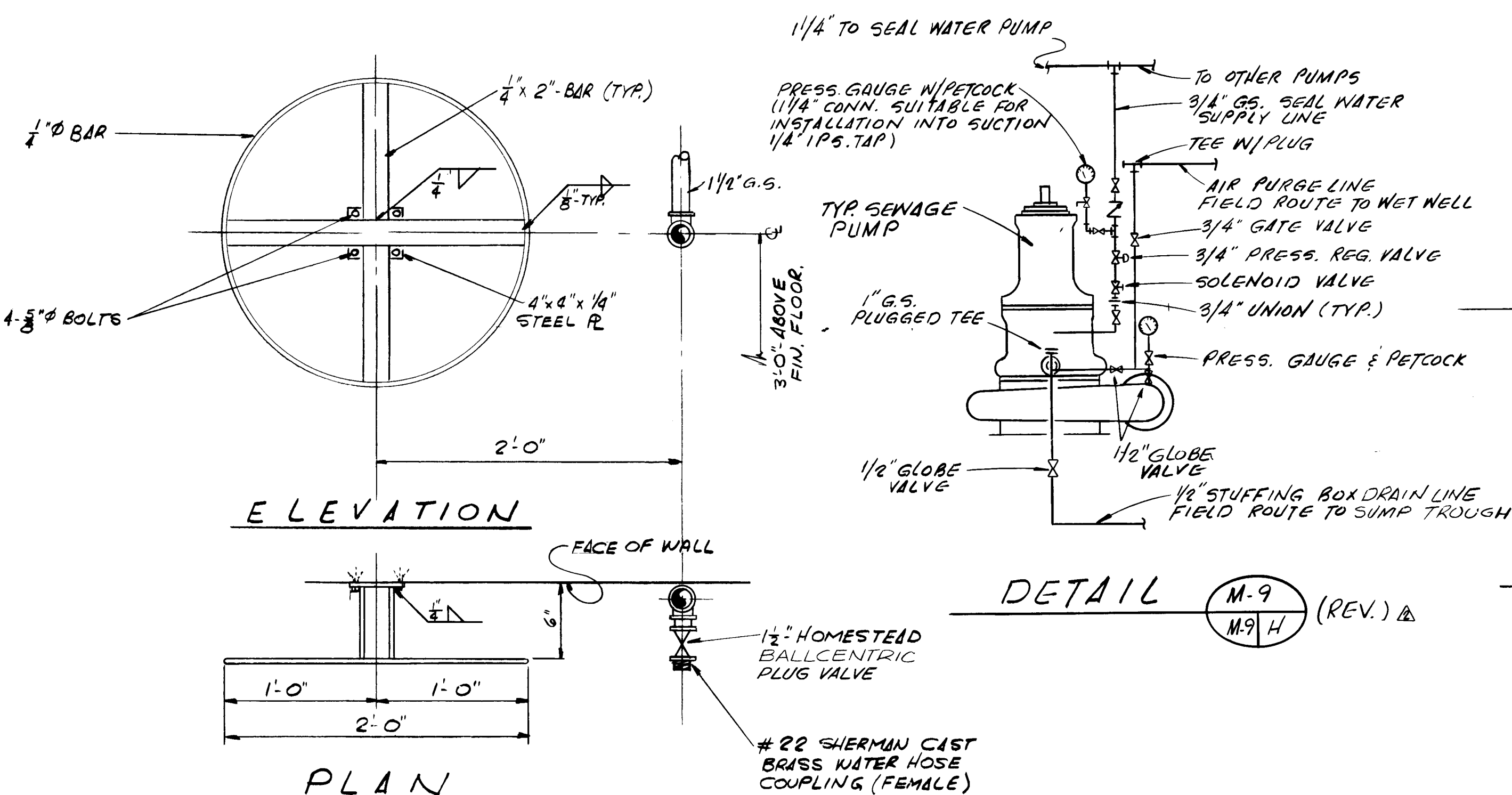
NOT TO SCALE

TYPICAL PIPE STAND-
OFF DETAIL

NOT TO SCALE

DETAIL TYPICAL WALL & PIPE BRACKET

NOT TO SCALE



NOTE: MAXIMUM WEIGHT
PER HANGER SHALL
NOT EXCEED 300 LBS.

HOSE STATION & REEL DETAIL

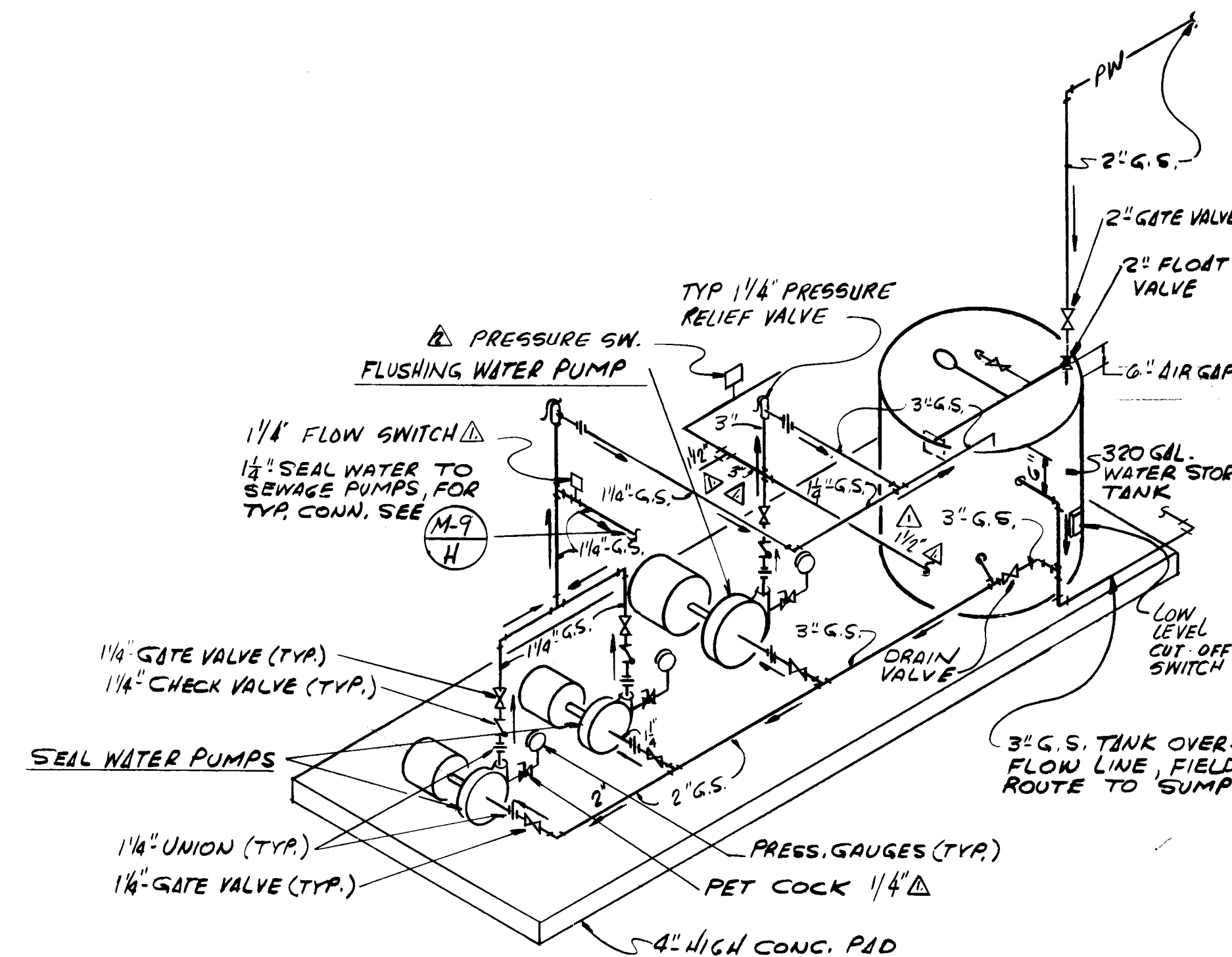
SCALE: 1/2" = 1' - 0"

DETAIL TYPICAL OIL PIPING
HANGER

NOT TO SCALE

SEAL & FLUSHING WATER PUMPS
PIPING SCHEMATIC

NOT TO SCALE

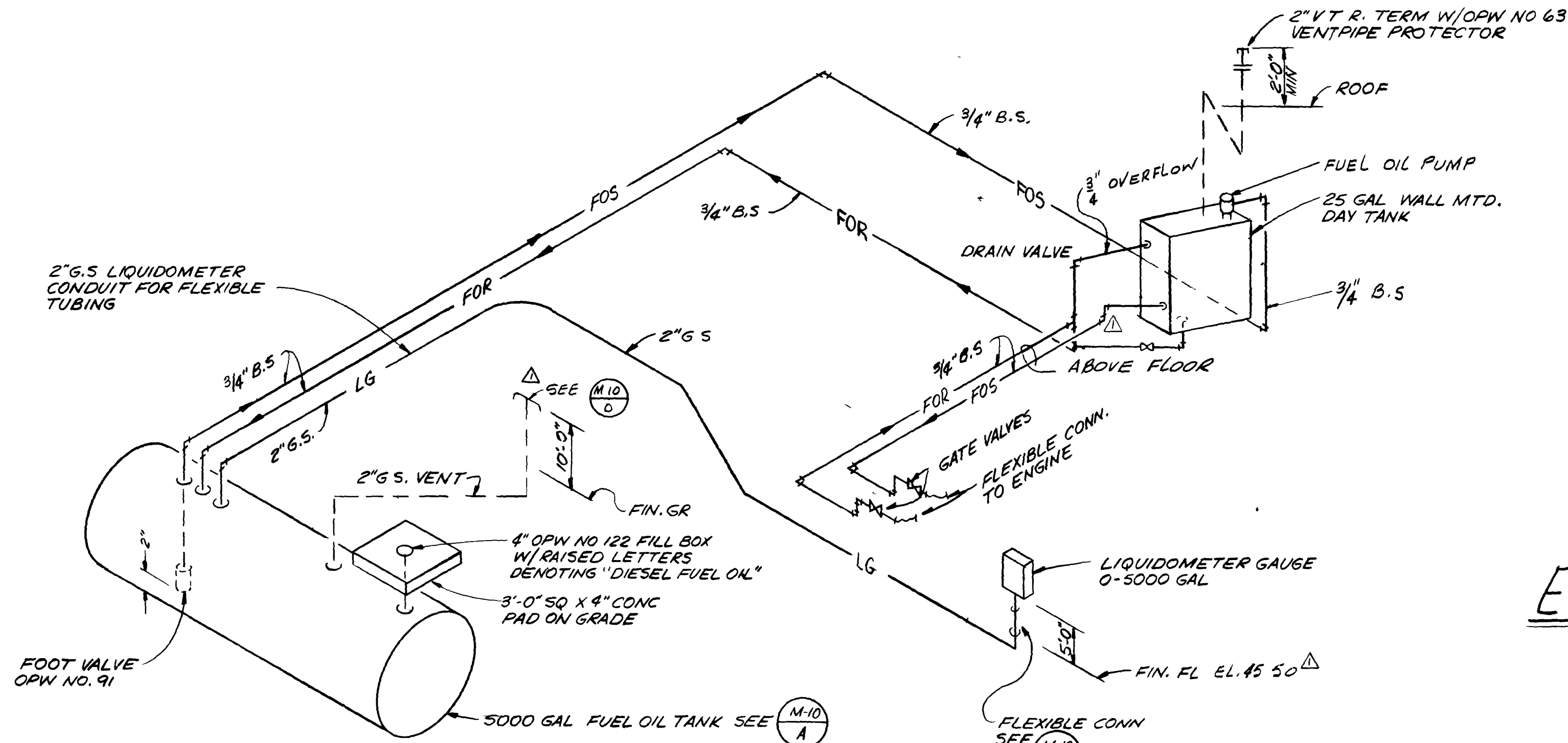


12906

AS BUILT
OCT. 1981

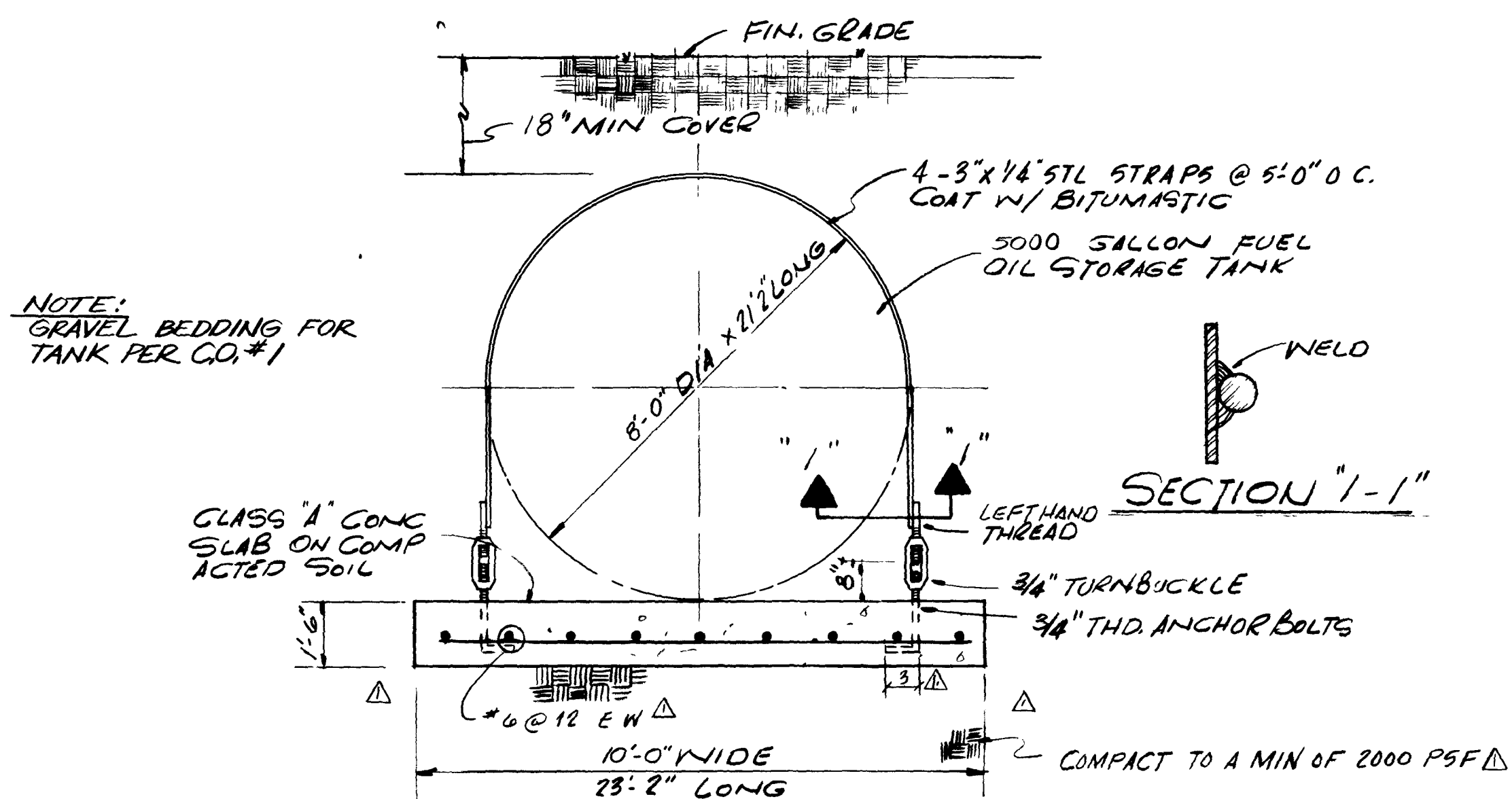
M-9

SUBMITTED BY: <i>James S. Smith</i>				APPROVED BY: _____				CITY OF JACKSONVILLE, FLORIDA				FLOOD & ASSOCIATES, INC.				MISCELLANEOUS DETAILS			
REG. ENGR. FLA. NO. 6847 DATE 9/76				REG. ENGR. FLA. NO. _____ DATE _____				SEWERAGE IMPROVEMENT PROGRAM				DESIGN CONSULTANT							
FLOOD & ASSOCIATES, INC.				WATER AND SEWER DIVISION				ST. JOHNS BLUFF				SVERDRUP & PARCEL AND ASSOCIATES, INC. - GENERAL CONSULTANT							
APPROVAL RECOMMENDED BY: <i>James S. Smith</i>				AUTHORIZED BY: <i>James S. Smith</i>				MASTER PUMPING STATION				DETAILED BY: S.B.D. SCALE AS SHOWN DATE SEPT. 1976				CONTR. NO. JS 40.7			
REG. ENGR. FLA. NO. 14824 DATE 3-28-79				REG. ENGR. FLA. NO. 14220 DATE 3-28-79				OFFICE OF DIRECTOR OF PUBLIC WORKS				CHECKED BY: B.A.B.				PROJ. NO. 7316			
SVERDRUP & PARCEL AND ASSOCIATES, INC.				CITY OF JACKSONVILLE, FLORIDA												SHEET NO. 12 OF 42			



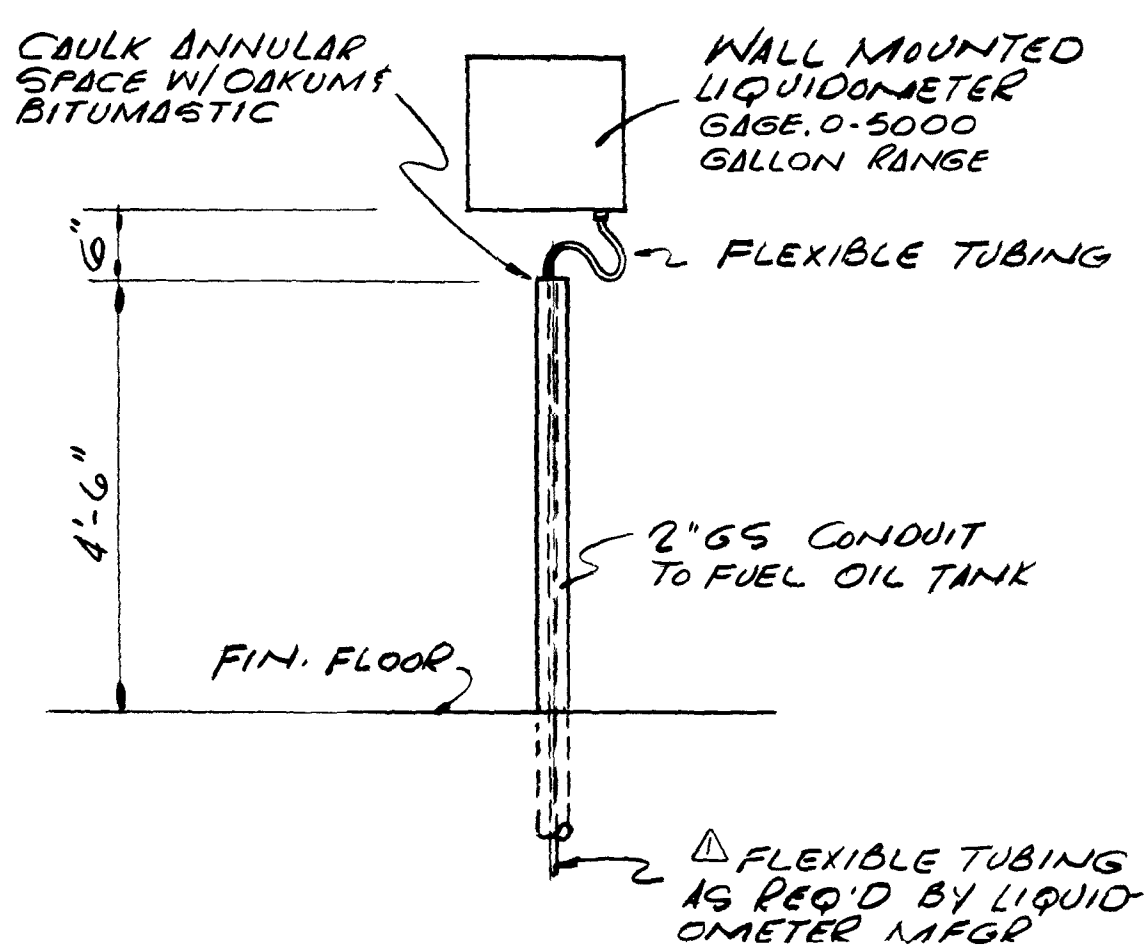
FUEL OIL PIPING SCHEMATIC

N.T.S



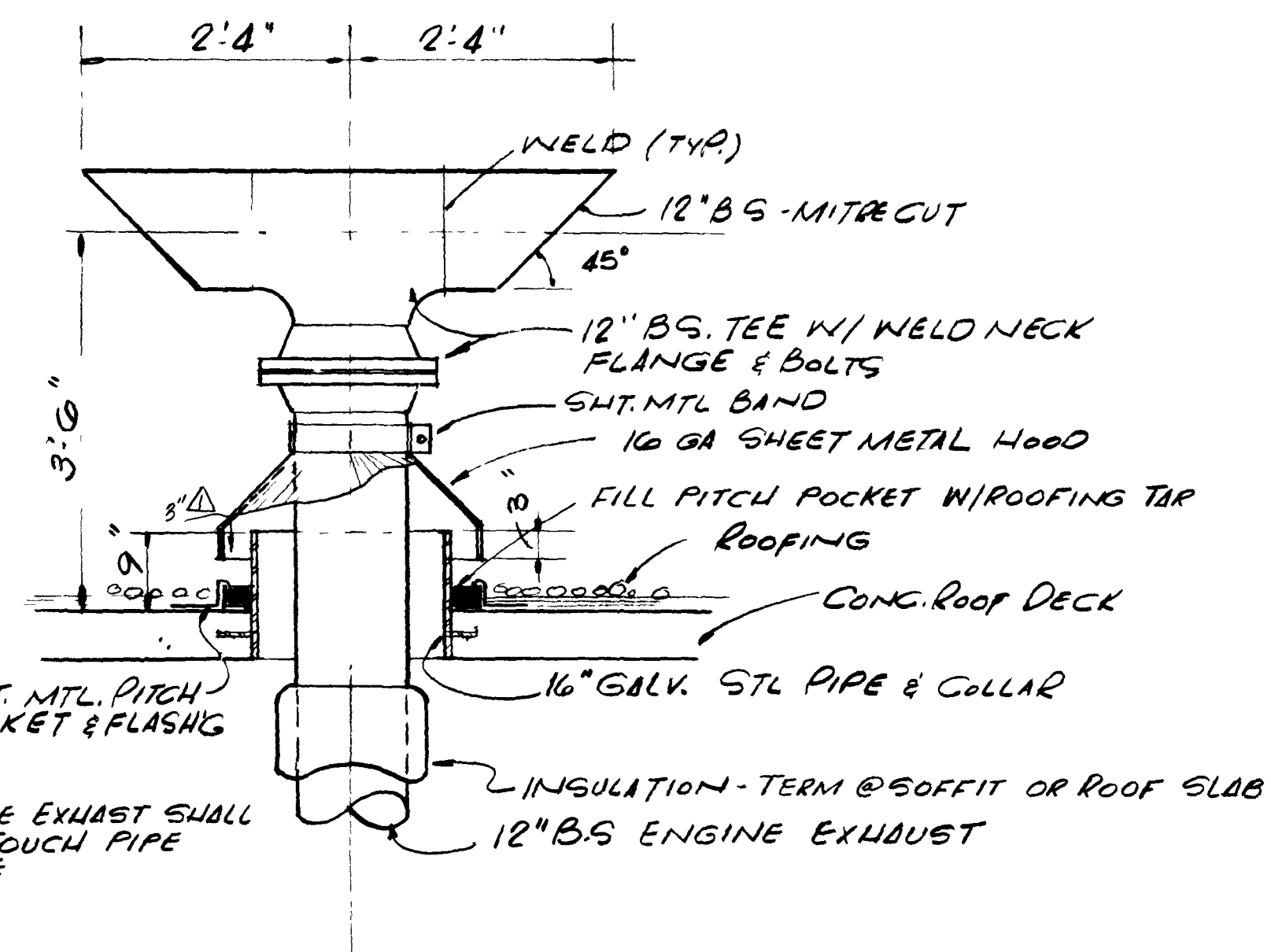
FUEL OIL TANK FOUNDATION DETAIL

N.T.S



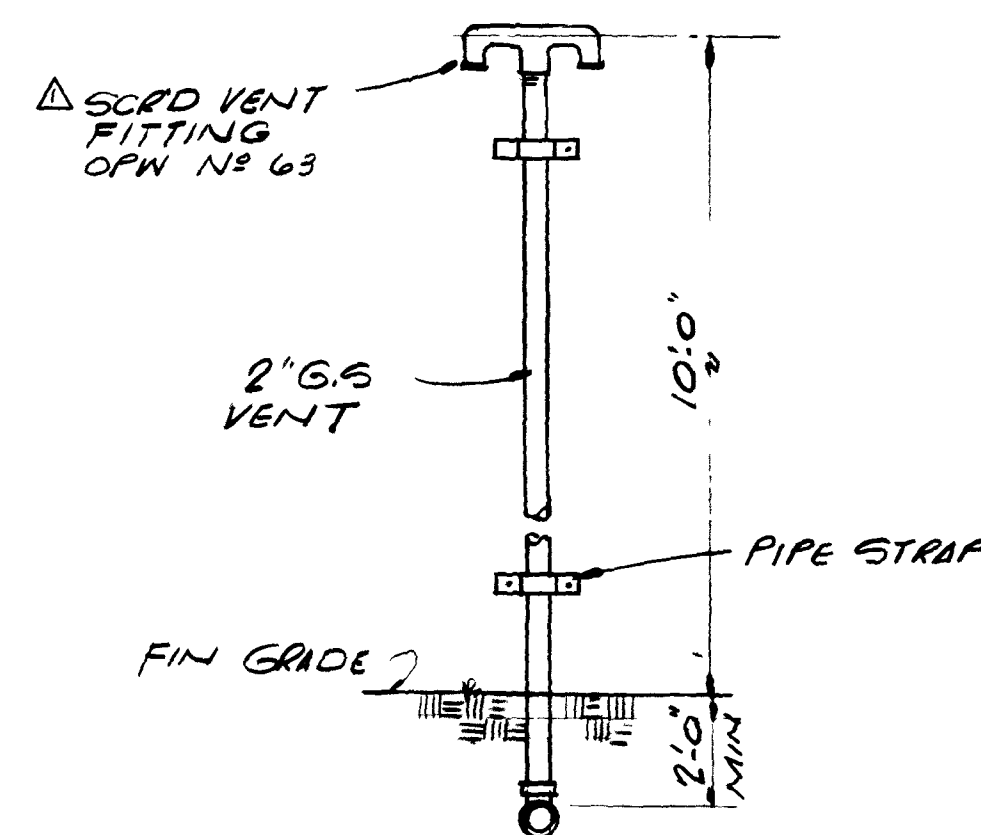
DETAIL

SCALE: $3/4" = 1'-0"$



ENGINE ROOF EXHAUST DETAIL

SCALE: $3/4" = 1'0"$



DETAIL

N.T.S

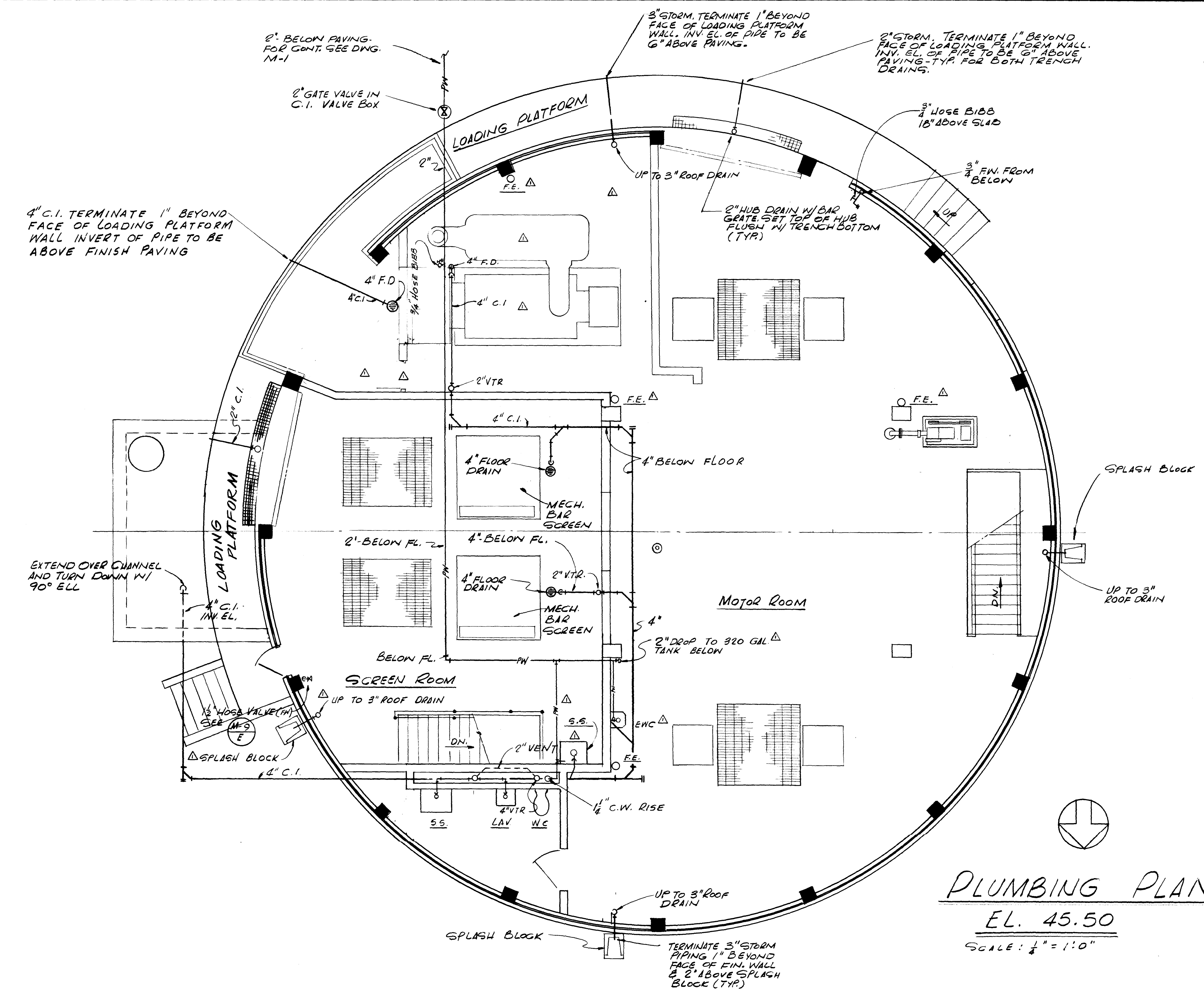
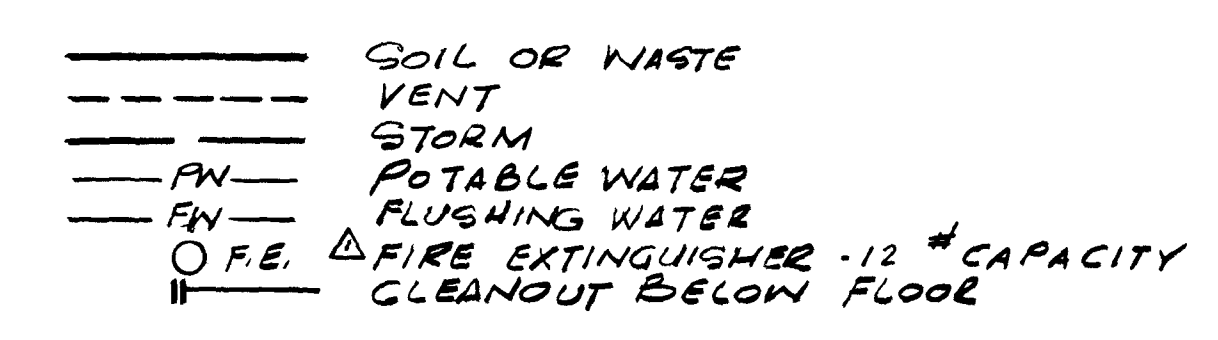
12907

AS BUILT
OCT, 1981

(M-10

										SUBMITTED BY <u>James J. England</u> REG ENGR FLA NO <u>6847</u> DATE <u>9/76</u> FLOOD & ASSOCIATES INC.		APPROVED BY _____ REG ENGR FLA NO _____ DATE _____ WATER AND SEWER DIVISION		CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM ST JOHNS BLUFF MASTER PUMPING STATION		FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT		MISCELLANEOUS DETAILS			
APPROVAL RECOMMENDED BY <u>James J. England</u> REG ENGR FLA NO <u>14824</u> DATE <u>3-28-77</u> SVERDRUP & PARCEL AND ASSOCIATES, INC.										AUTHORIZED BY <u>James J. England</u> REG ENGR FLA NO <u>64270</u> DATE <u>3/30/78</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA		SVERDRUP & PARCEL AND ASSOCIATES, Inc -- GENERAL CONSULTANT									
PRE BID REVISIONS										JB	FEB	9/77	4	3/77	11	3/77					
NO	DESCRIPTION								BY	FIRM	DATE	S&P	DATE	PW	DATE						
REVISIONS										SUBMITTAL		APPROVAL									
DETAILLED BY JAB										SCALE AS SHOWN		DATE SEPT 1976									
CHECKED BY BAB																					
CONTR NO JS-40 7										PROJ NO 7316		SHEET NO 13 OF 42									

PLUMBING LEGEND



PLUMBING PLAN

EL. 45.50

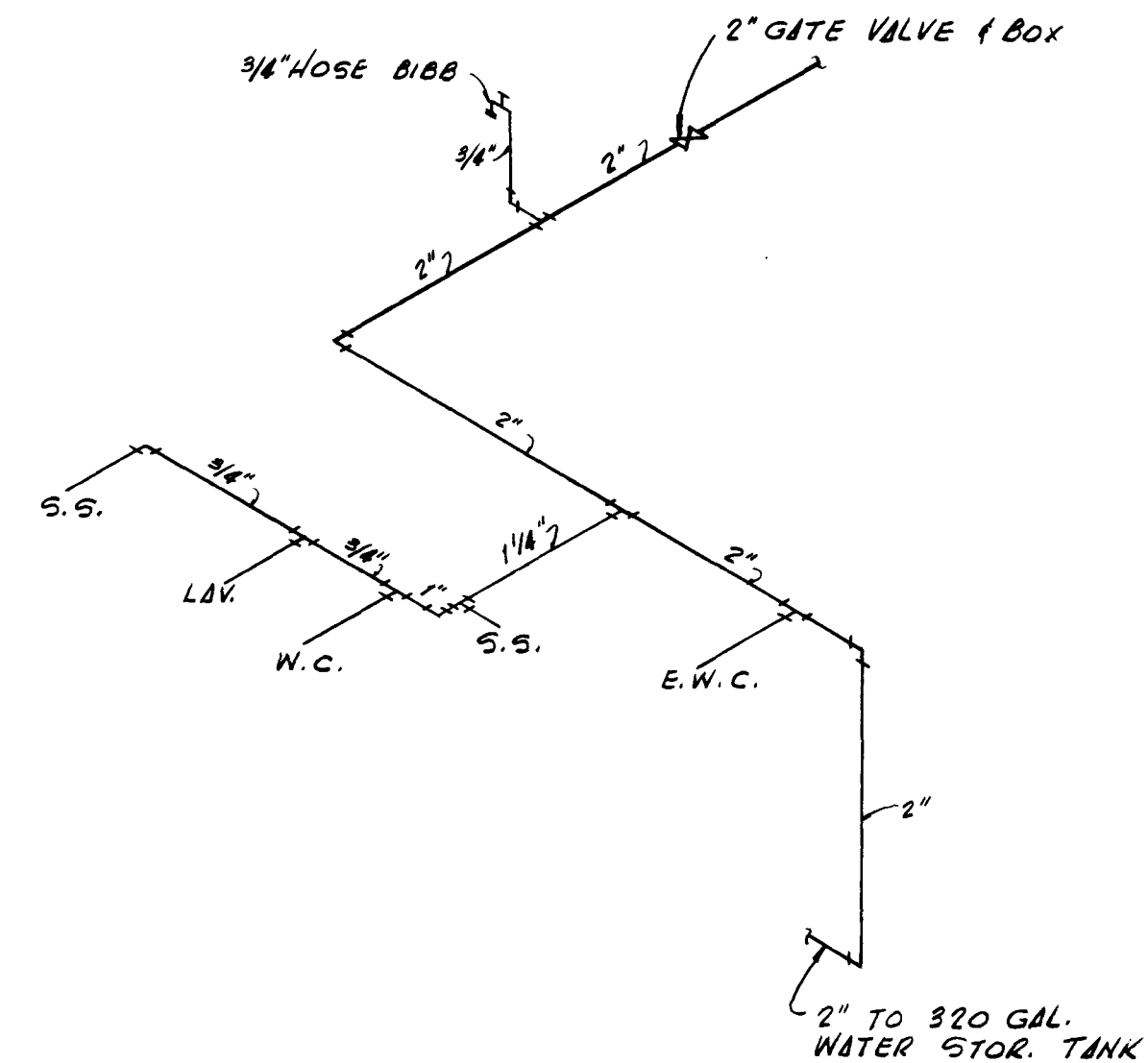
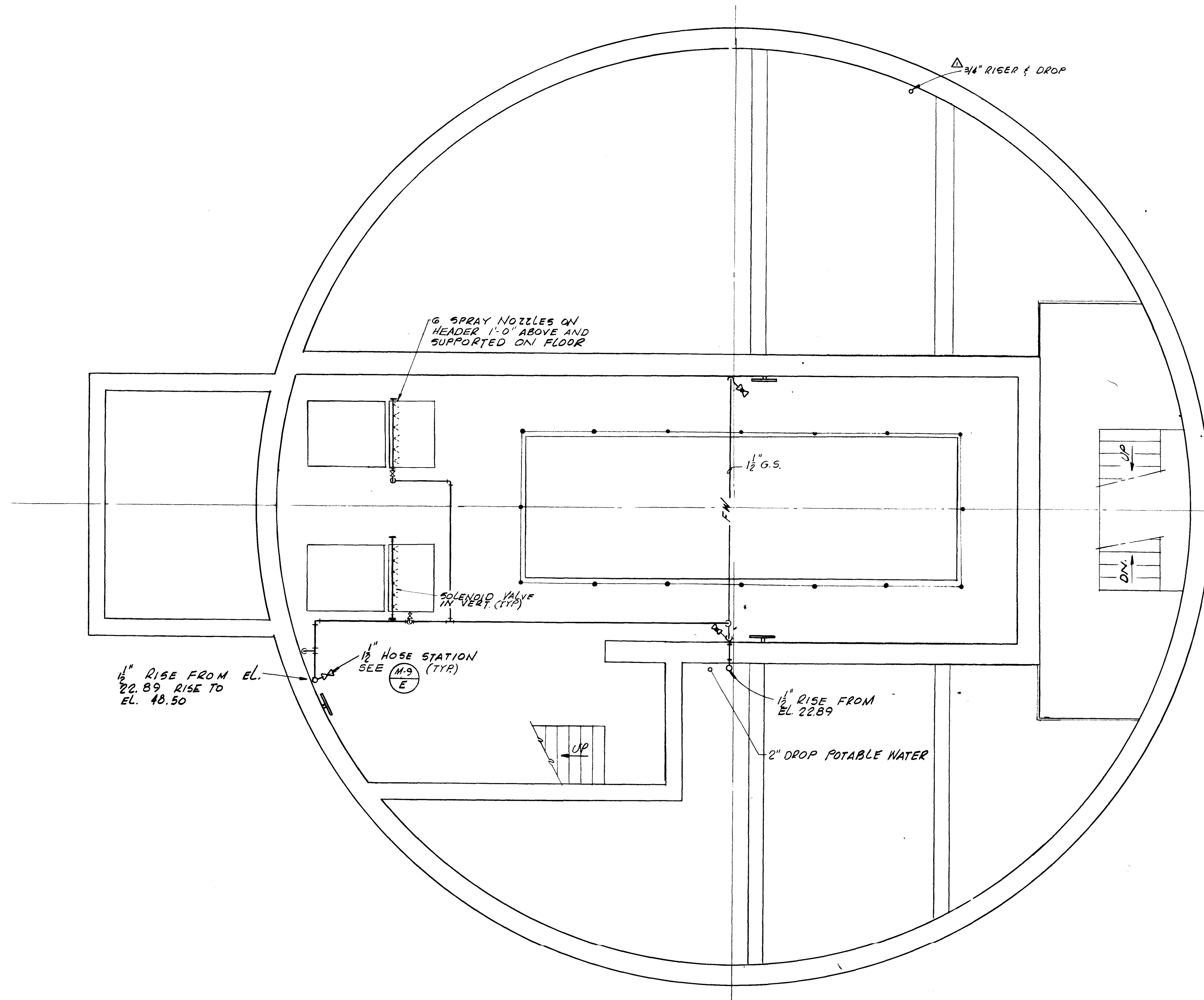
SCALE: $\frac{1}{4}" = 1'0"$

12908

AS BUILT
OCT. 1981

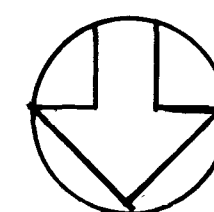
P-1

										SUBMITTED BY: <u>James S. Engle</u> REG. ENGR. FLA. NO. <u>6847</u> DATE <u>9/76</u> FLOOD & ASSOCIATES, INC.										APPROVED BY: _____ DATE _____ REG. ENGR. FLA. NO. _____ DATE _____ WATER AND SEWER DIVISION AUTHORIZED BY: <u>James S. Engle</u> REG. ENGR. FLA. NO. <u>4476</u> DATE <u>9/76</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM ST. JOHNS BLUFF MASTER PUMPING STATION										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT										PLUMBING PLAN ELEV. 45.50									
PRE-BID REVISION										SUBMITTAL										APPROVAL										SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT										DETAIL BY: <u>JAB</u> SCALE <u>SHOWN</u> DATE <u>SEPT 1976</u> CHECKED BY: <u>BAB</u>										CONTR. NO. <u>JS-40.7</u> PROJ. NO. <u>7316</u> SHEET NO. <u>14</u> OF <u>42</u>									
NO. DESCRIPTION										BY FIRM DATE S&P DATE PW DATE										REG. ENGR. FLA. NO. <u>11821</u> DATE <u>9-22-78</u> SVERDRUP & PARCEL AND ASSOCIATES, INC.																																							
REVISIONS										SUBMITTAL										APPROVAL																																							



△ POTABLE WATER RISER DIAGRAM

PLUMBING PLAN: EL. 35.50
SCALE: 1/4" = 1'-0"



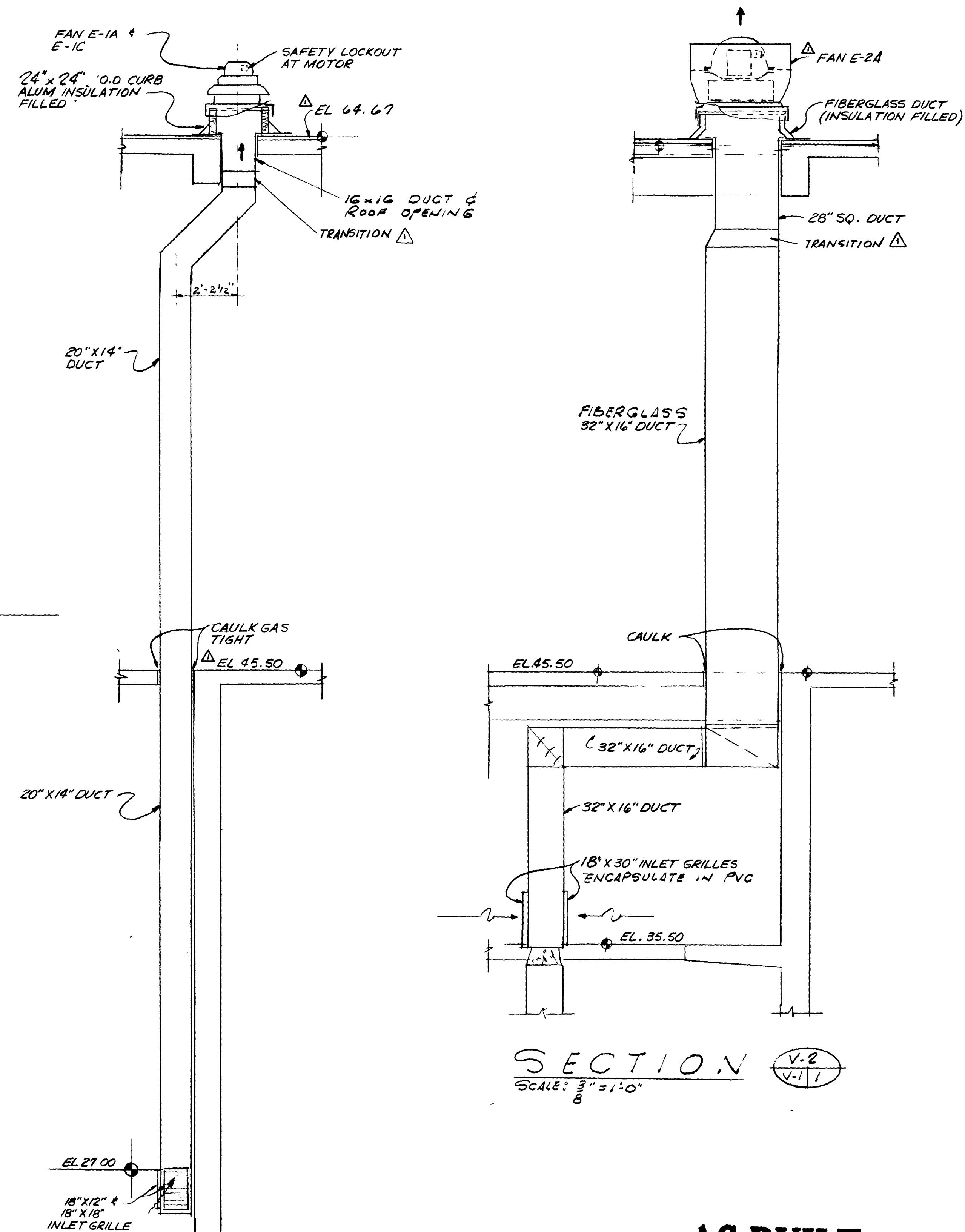
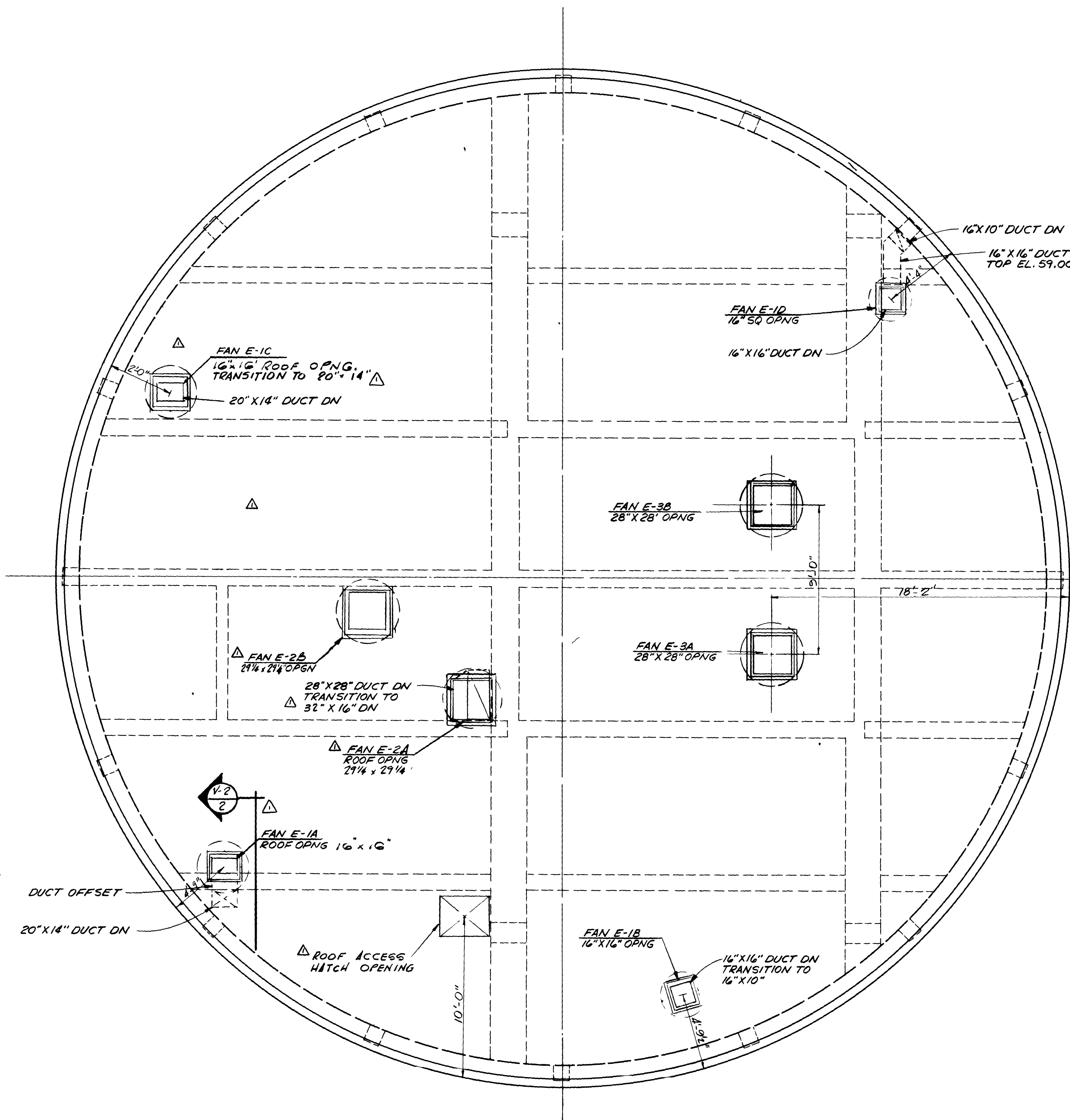
AS BUILT
OCT. 1981

12909



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										SUBMITTED BY: <i>James J. English</i>		APPROVED BY: _____		CITY OF JACKSONVILLE, FLORIDA		FLOOD & ASSOCIATES, INC.		PLUMBING PLAN ELEV. 35.50	
										REG. ENGR. FLA. NO. <u>6847</u> DATE <u>9-76</u>		REG. ENGR. FLA. NO. _____ DATE _____				DESIGN CONSULTANT			
										FLOOD & ASSOCIATES, INC.		WATER AND SEWER DIVISION		SEWERAGE IMPROVEMENT PROGRAM ST. JOHNS BLUFF MASTER PUMPING STATION		SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT		CONTR. NO. <u>JS-40.7</u>	
										AUTHORIZED BY: <i>James J. English</i>		AUTHORIZED BY: <i>James J. English</i>				SCALE <u>SHOWN</u>			
										REG. ENGR. FLA. NO. <u>1824</u> DATE <u>3-28-76</u>		REG. ENGR. FLA. NO. <u>1824</u> DATE <u>3-28-76</u>		OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA		DETAILED BY: <u>CD</u>		DATE <u>SEPT 1976</u>	
										SVERDRUP & PARCEL AND ASSOCIATES, INC.		SVERDRUP & PARCEL AND ASSOCIATES, INC.				CHECKED BY: <u>BAB</u>			
																		PROJ. NO. <u>7316</u>	
																		SHEET NO. <u>15</u> OF <u>42</u>	

**AS BUILT**

OCT 1981

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SUBMITTED BY <i>James B. England</i>		REG ENGR FLA NO. 6847		DATE 9/76	
FLOOD & ASSOCIATES, INC.		APPROVED BY <i>James B. England</i>		DATE 3/78	
RECOMMENDED BY <i>James B. England</i>		REG ENGR FLA NO. 1224		DATE 3/78	
SVERDRUP & PARCEL AND ASSOCIATES, INC.		OFFICE OF DIRECTOR OF PUBLIC WORKS		CITY OF JACKSONVILLE, FLORIDA	
NO	DESCRIPTION	BY	FIRM	DATE	S&P
1	PRE BID REVISION	JB	F&A	9/77	3/78
2	REVISIONS				

APPROVED BY <i>James B. England</i>		REG ENGR FLA NO. 6847		DATE 9/76	
FLOOD & ASSOCIATES, INC.		APPROVED BY <i>James B. England</i>		DATE 3/78	
RECOMMENDED BY <i>James B. England</i>		REG ENGR FLA NO. 1224		DATE 3/78	
SVERDRUP & PARCEL AND ASSOCIATES, INC.		OFFICE OF DIRECTOR OF PUBLIC WORKS		CITY OF JACKSONVILLE, FLORIDA	

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
ST. JOHNS BLUFF
MASTER PUMPING STATION

FLOOD & ASSOCIATES, INC.

DESIGN CONSULTANT

SVERDRUP & PARCEL AND ASSOCIATES, INC. -- GENERAL CONSULTANT

DETAILED BY	C D	SCALE	AS SHOWN	DATE	SEPT 1976
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CHECKED BY **B A B****HEATING VENTILATION/ROOF PLAN**CONTR NO **JS-407**PROJ NO **7316**SHEET NO **18** OF **42**

ELECTRIC STRIP HEATER SCHEDULE					
HEATER	SERVES	STEPS	KW	FAN	REMARKS
EH-1A	PUMP RM	2	26	S-1A	INTERLOCK W/ FAN
EH-1B	PUMP RM	2	26	S-1B	" " "
EH-3A	MOTOR RM	2	29	S-3A	" " "
EH-3B	MOTOR RM	2	29	S-3B	" " "
EH-3C	MOTOR RM	2	29	S-3C	" " "
EH-3D	MOTOR RM	2	29	S-3D	" " "

ELECTRICAL SERVICE 480V~3Ø

UNIT HEATER SCHEDULE							
HEATER No	KW	MANUF.	MODEL	CFM	HP	THROW FT	REMARKS
UH-1	7.5	CHROMALOX	LUH-75	425	1/33	22	PROVIDE CR-330 CONT. & MHT-473 THERM
UH-2	7.5						" " " " " " "
UH-3	7.5						" " " " " " "
UH-4	7.5						" " " " " " "

ELECTRICAL SERVICE 480V~3Ø

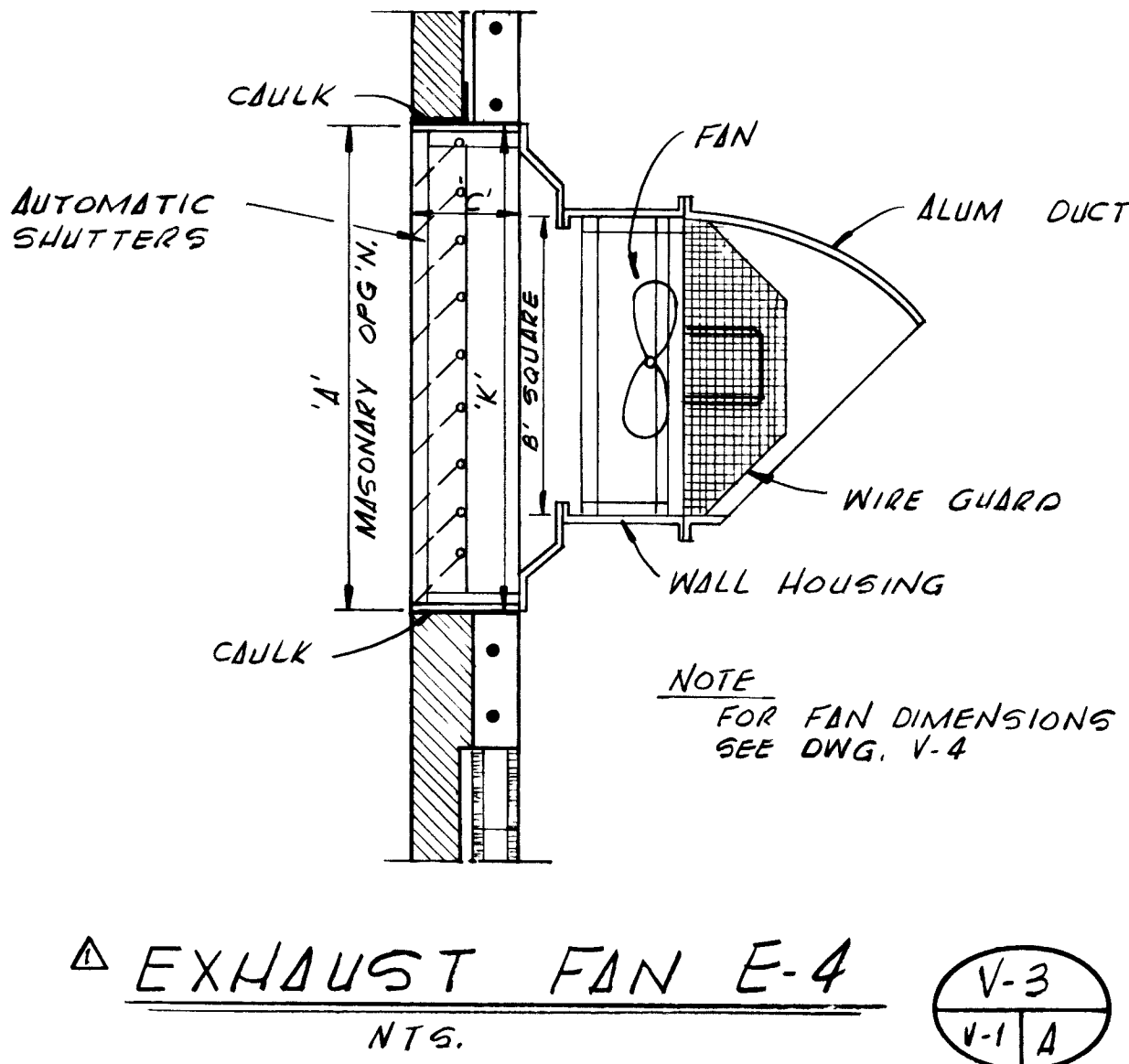
DOOR LOUVERS & GRILLES

GRILLE TUTTLE & BAILEY CRE-500, RL FINISH
DOOR LOUVER " " " " " " "

FAN SCHEDULE													
FAN No	LOCATION	SERVES	FAN TYPE	CFM	EXT. S.P. IN. WG.	MAX. R.P.M.	FAN H.P.	DRIVE	INTERLOCK	MANF.	TYPE	MODEL No.	REMARKS
S-1A	PUMP RM	PUMP RM	CENTRIFUGAL	2400	1/4	1,140	3/4	V-BELT	FAN E-1A,B	LOREN COOK	CENTRI-VANE	16CV	FIXED LOUVER, AUTO. SHUTTERS, STRIP HEATER, WALL PLENUM, GUARD
△ S-1B	PUMP RM	PUMP RM		2400	3/8	1,200	3/4		FAN E-1C,D			16CV	" " " " " " " "
S-2A	SCRN. RM LOWER	LOWERSCH RM		3,000	1/4	780	1/2		FAN E-2A			20CV	" " " " " " " "
△ S-2B	SCRN. RM UPPER	UPPER SCH RM		3,900	1/4	1,160	1/2	DIRECT	FAN E-2B	COOLAIR	CDC	CDC24H11	" " " " " " " "
△ S-3A	MOTOR RM	MOTOR RM		2,700	1/5	870	1/4		FAN E-3A			CDC24G8	" " " " " " " "
S-3B					1/5	870	1/4		FAN E-3A				" " " " " " " "
S-3C					1/5	870	1/4		FAN E-3B				" " " " " " " "
S-3D					1/5	870	1/4		FAN E-3B				" " " " " " " "
E-1A	ROOF	PUMP RM	CENTRIFUGAL	1,800	1/4	870	1/4	V-BELT	FAN S-1A	LOREN COOK	UCB	18UC3B	AUTO SHUTTERS, ALUM. CURB, DIS. SW. BIRD SCREEN
E-1B				800	1/4	1,300	1/6		FAN S-1A			12UC01B2	
E-1C				1,800	1/4	830	1/4		FAN S-1B			18UC3B	
E-1D				800	1/4	1,300	1/6		FAN S-1B			12UC01B2	
E-2A		SCRN RM LOWER		3,300	3/8	704	1/2		FAN S-2A	SWARTWOUT	FIBER-AIRE	24WA4B	FIBERGLASS CURB (INSULATION FILLED) DIS. SW. PVC BIRD SCREEN
E-2B		SCRN RM UPPER		3,800	1/4	704	1/2		FAN S-2B	SWARTWOUT	FIBER-AIRE	24WA4B	" " " " " " " "
E-3A		MOTOR RM		5,300	1/4	731	1		FAN S-3A,B	LOREN COOK	UCB	27UC7B	AUTO SHUTTERS, ALUM. CURB, DIS SW. BIRD SCREEN
E-3B		MOTOR RM		5,300	1/4	731	1		FAN S-3C,D	LOREN COOK	UCB	27UC7B	" " " " " " " "
△ E-4	TOILET ROOM	TOILET		560	1/4	1,100	1/15		LIGHT SWITCH	COOLAIR	UD	UD14C11	FIXED LOUVER, AUTO SHUTTERS, WALL SLEEVE, GUARD

FAN NOTES

1. FANS S-2A, S-2B, E-2A & E-2B TO BE EXPLOSION PROOF, METAL SURFACES OF FANS & DUCT SYSTEMS TO BE ENCAPSULATED IN PVC COATING
2. FANS & ACCESSORIES SHALL BE ALUM UNLESS INDICATED OTHERWISE FAN MFG. TO PROVIDE WALL HOUSINGS & SLEEVES FOR PROPELLER FANS
3. ELECTRICAL SERVICE SHALL BE 460V, 3Ø & 110V, 1Ø
△ 4. ALL LOUVERS SHALL BE INSTALLED SUCH TO PERMIT EASY ACCE TO AND FOR REMOVAL OF SCREENS

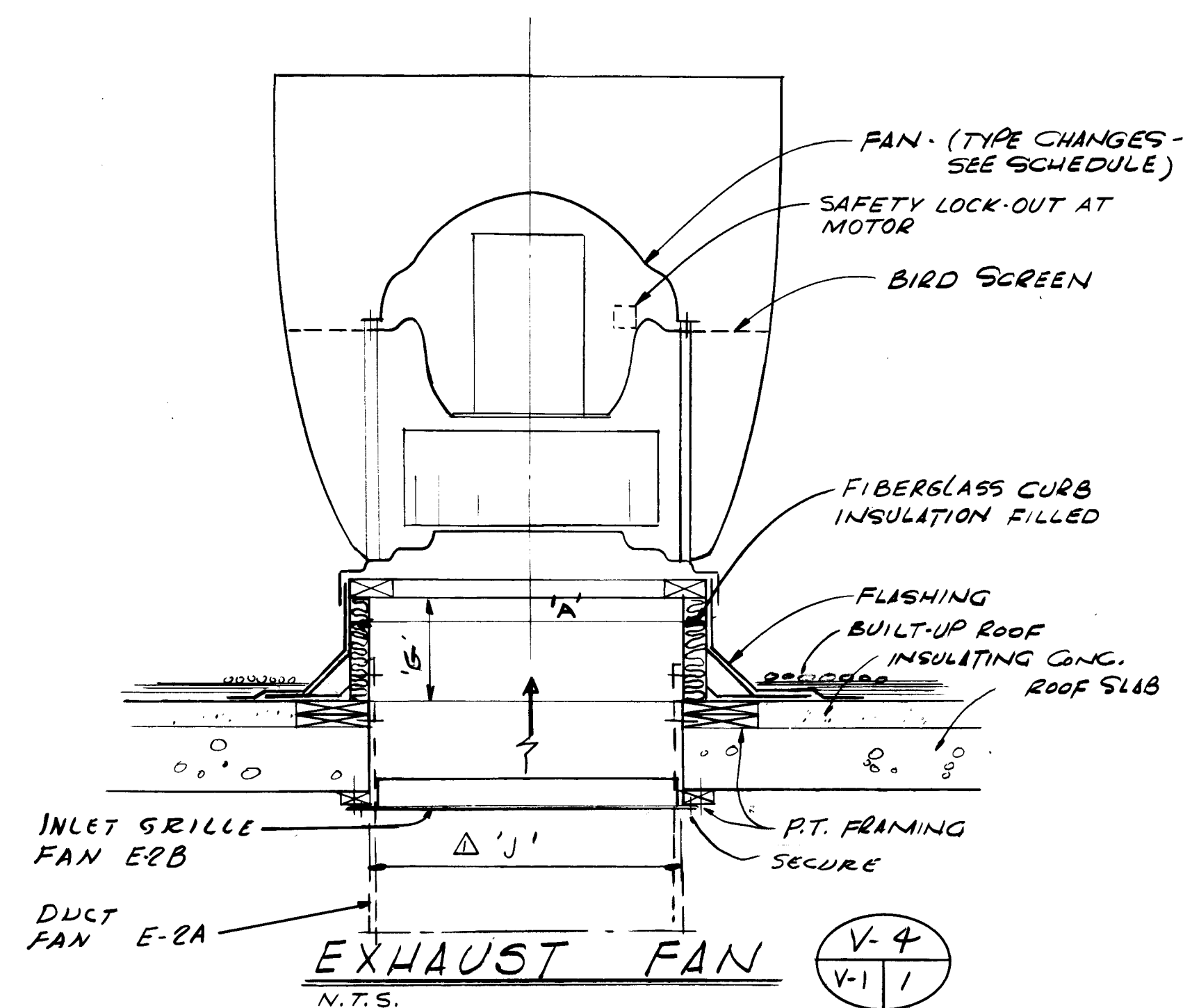


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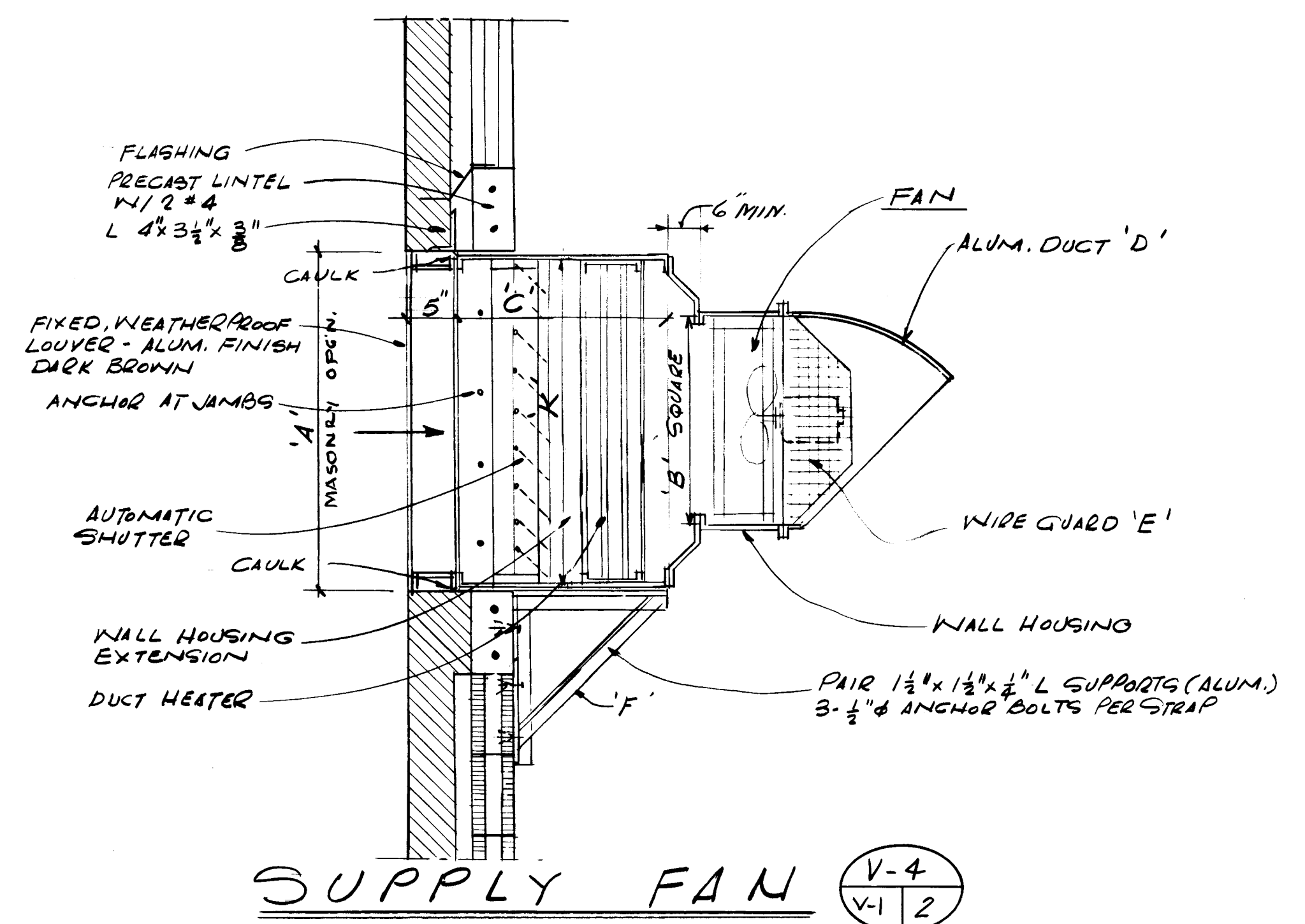
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OCT, 1981

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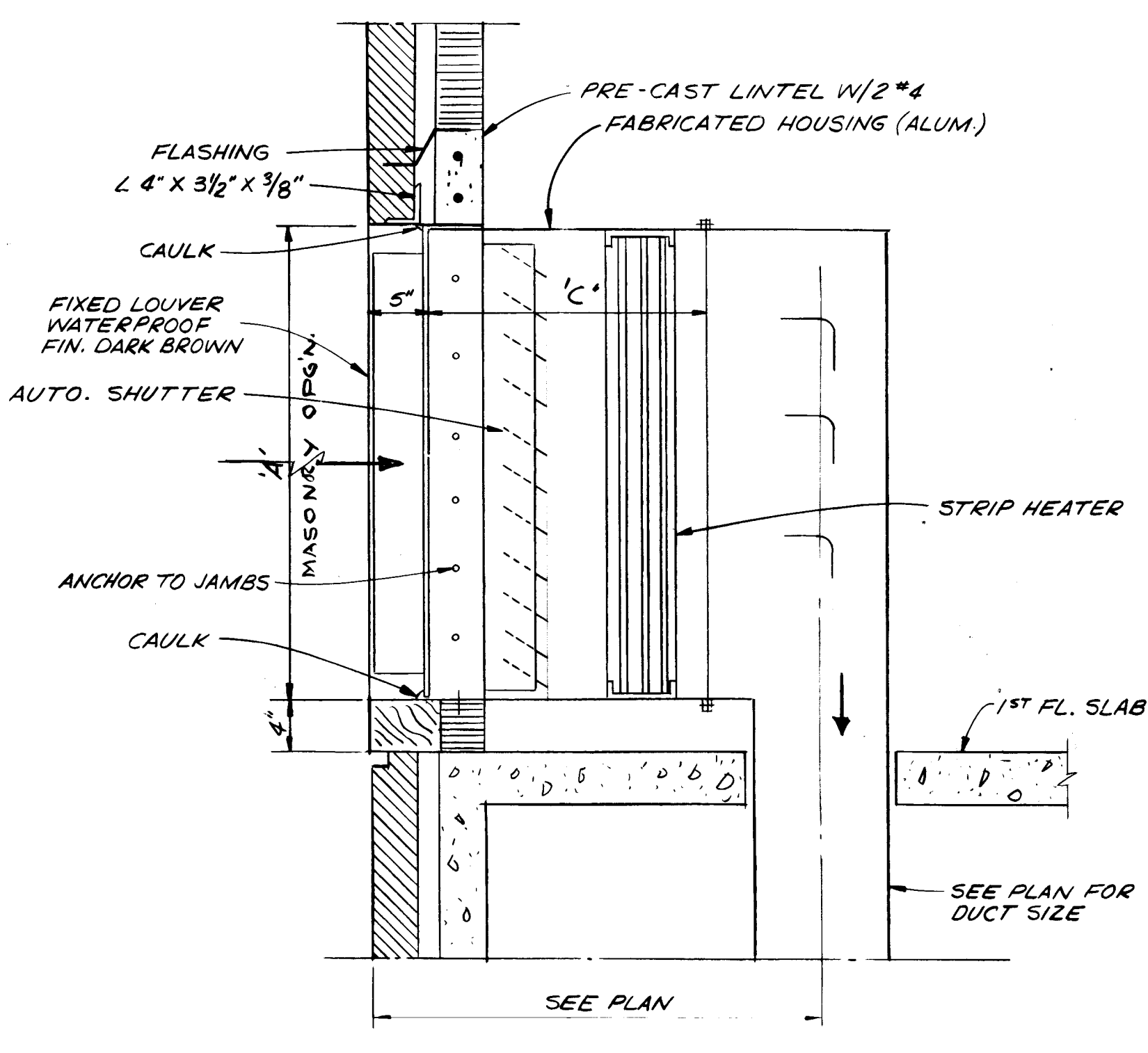
										SUBMITTED BY <u>James J. England</u> REG ENGR FLA NO <u>6847</u> DATE <u>9/76</u> FLOOD & ASSOCIATES INC		APPROVED BY _____ REG ENGR FLA NO _____ DATE _____ WATER AND SEWER DIVISION AUTHORIZED BY <u>John H. Taylor</u> REG ENGR FLA NO <u>9220</u> DATE <u>8/28/78</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA		CITY OF JACKSONVILLE, FLORIDA		FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT		HEATING & VENTILATION/SCHEDULES							
PRE BID REVISIONS										APPROVAL RECOMMENDED BY <u>George C. St...</u> REG ENGR FLA NO <u>14224</u> DATE <u>2/28/78</u> SVERDRUP & PARCEL AND ASSOCIATES INC				SEWERAGE IMPROVEMENT PROGRAM ST JOHNS BLUFF MASTER PUMPING STATION		SVERDRUP & PARCEL AND ASSOCIATES, INC -- GENERAL CONSULTANT									
REVISIONS										SUBMITTAL		APPROVAL				DETAILED BY <u>JWD</u> CHECKED BY <u>BAB</u>		SCALE <u>AS SHOWN</u> DATE <u>SEPT 1976</u>		CONTR NO <u>JS-407</u>		PROJ NO <u>7316</u>		SHEET NO <u>19</u> OF <u>42</u>	



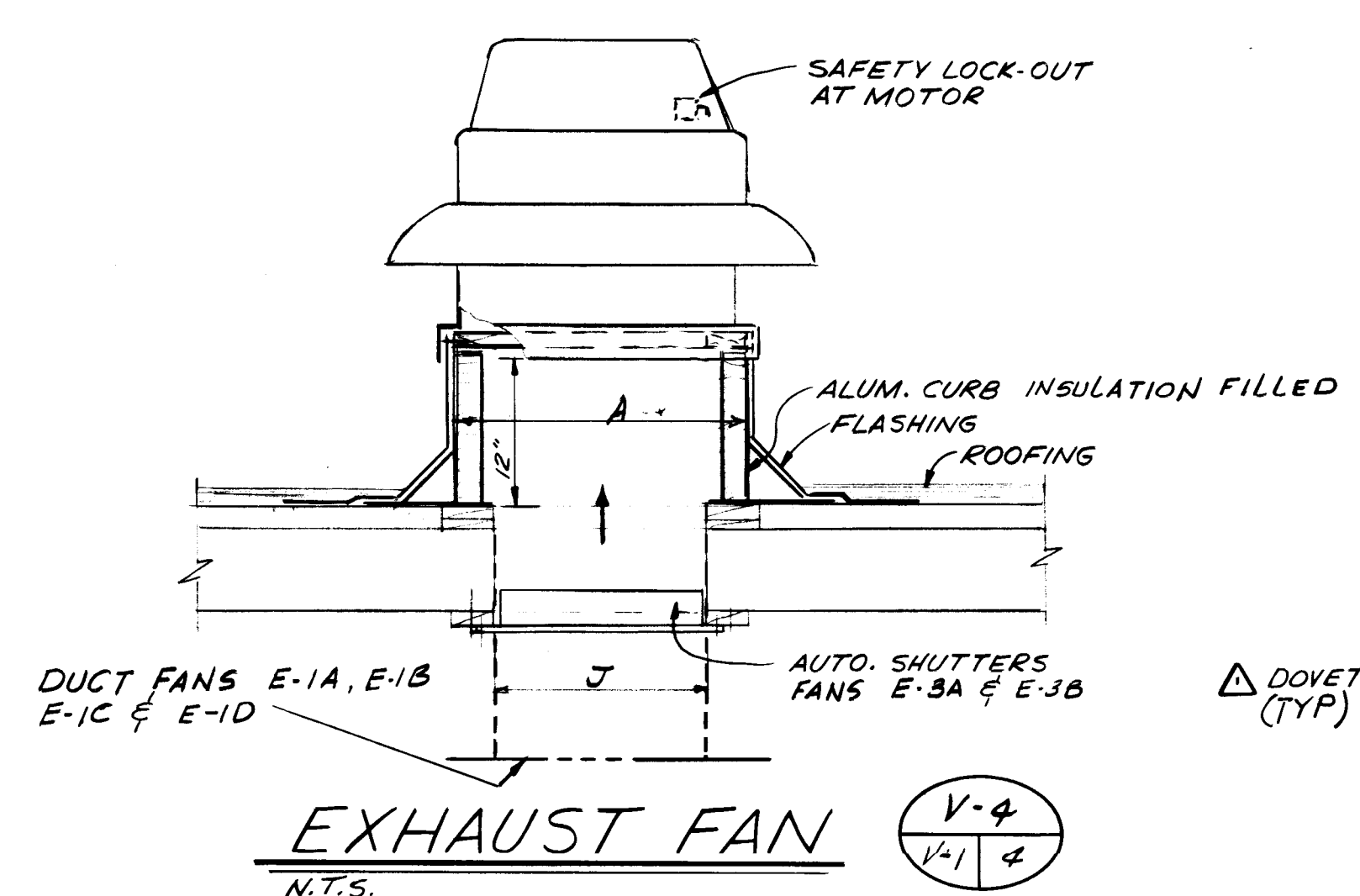
FANS E-2A & E-2B SIMILAR



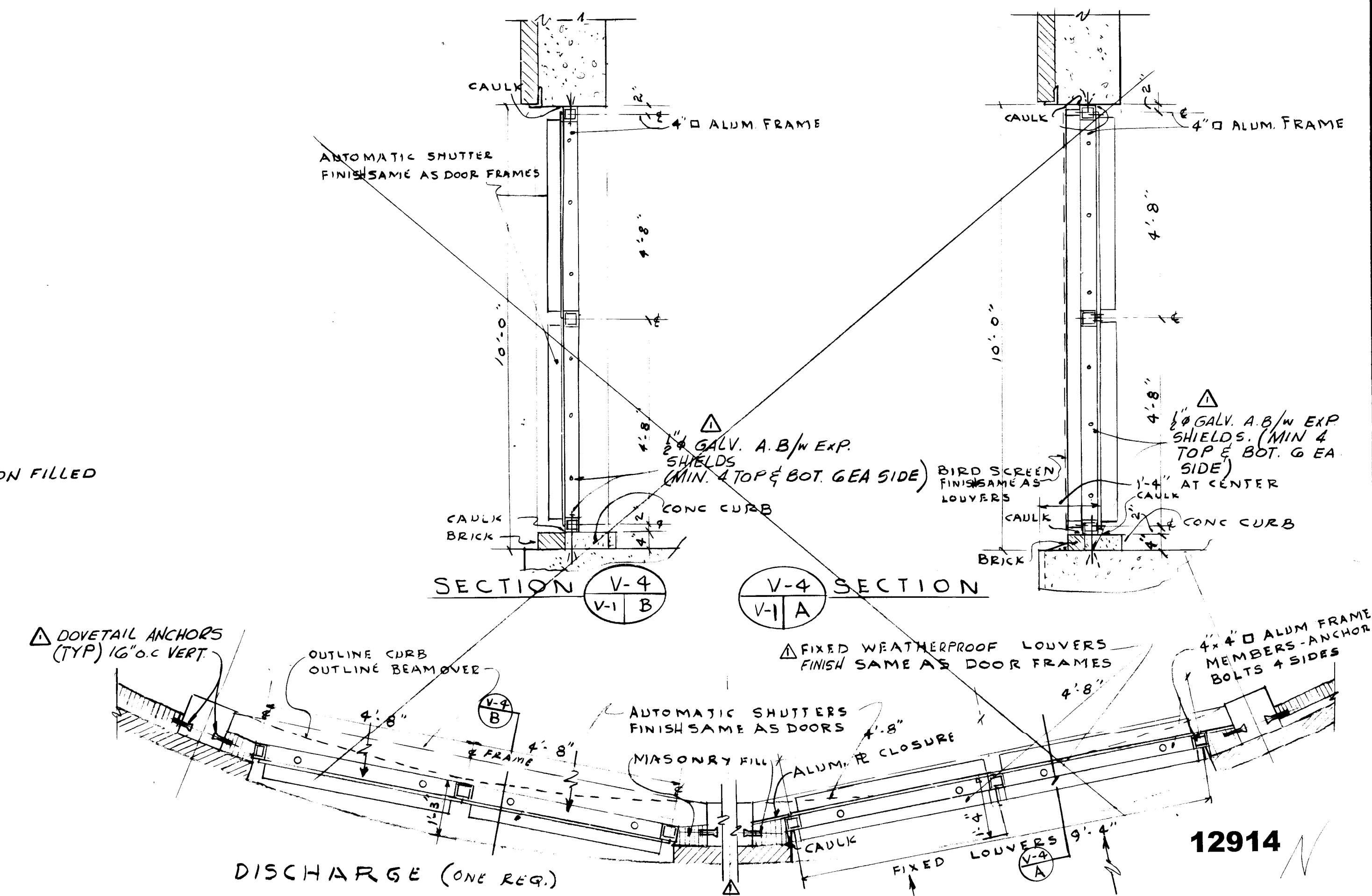
FANS S-2B, S-3B, S-3C & S-3D



SUPPLY FAN
N.T.S.
FANS S-1A, S-1B & S-2A



FANS E-1A, E-1B, E-1C, E-1D, E-3A & E-3B



GENERATOR LOUVERS
SCALE 1/2" = 1'-0"

FAN SERVES	FAN NO.	FAN DIMENSIONS									
		'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	J	K
PUMP RM.	S-1A	36 1/2" X 48 1/2"	32 1/4" X 32 1/4"	20"	-	-	-	-	-	-	36 1/4" X 48 1/4"
PUMP RM.	S-1B	36 1/2" X 48 1/2"	-	20"	-	-	-	-	-	-	-
SCRN. RM. LO.	S-2A	36 1/2" X 48 1/2"	-	20"	-	-	-	-	-	-	-
SCRN. RM. UP.	S-2B	36 1/2" X 48 1/2"	-	20"	YES	-	-	-	-	-	-
MOTOR RM.	S-3A	36 1/2" X 48 1/2"	-	20"	-	YES	-	-	-	-	-
MOTOR RM.	S-3B	36 1/2" X 48 1/2"	-	20"	YES	-	YES	-	-	-	-
MOTOR RM.	S-3C	36 1/2" X 48 1/2"	-	20"	YES	-	YES	-	-	-	-
MOTOR RM.	S-3D	36 1/2" X 48 1/2"	32 1/4" X 32 1/4"	20"	YES	-	YES	-	-	-	36 1/4" X 48 1/4"
PUMP RM.	E-1A	22 1/2" X 22 1/2"	-	-	-	-	-	12"	-	16" X 16"	-
PUMP RM.	E-1B	-	-	-	-	-	-	12"	-	16" X 16"	-
PUMP RM.	E-1C	-	-	-	-	-	-	12"	-	16" X 16"	-
PUMP RM.	E-1D	22 1/2" X 22 1/2"	-	-	-	-	-	12"	-	16" X 16"	-
SCRN. RM. LO.	E-2A	34 3/4" X 34 3/4"	-	-	-	-	-	12"	-	29 1/4" X 29 1/4"	-
SCRN. RM. UP.	E-2B	34 3/4" X 34 3/4"	-	-	-	-	-	12"	-	29 1/4" X 29 1/4"	-
MOTOR RM.	E-3A	34 1/2" X 34 1/2"	-	-	-	-	-	12"	-	28" X 28"	-
MOTOR RM.	E-3B	34 1/2" X 34 1/2"	-	-	-	-	-	12"	-	28" X 28"	-
TOILET	E-4	22 1/2" X 22 1/2"	22 1/4" X 22 1/4"	10"	-	-	-	-	-	-	22 1/2" X 22 1/4"

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OCT. 1981

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
ST. JOHNS BLUFF
MASTER PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. - GENERAL CONSULTANT
DETAILED BY: J.A.B. SCALE: AS SHOWN DATE: SEPT. 1976
CHECKED BY: B.A.B.

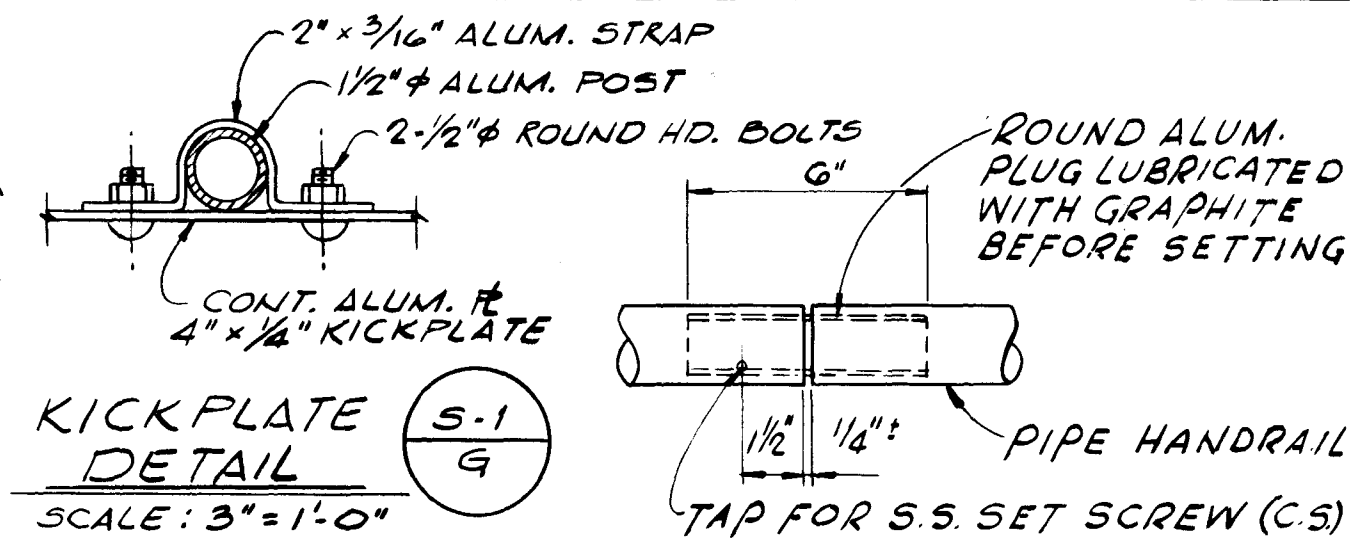
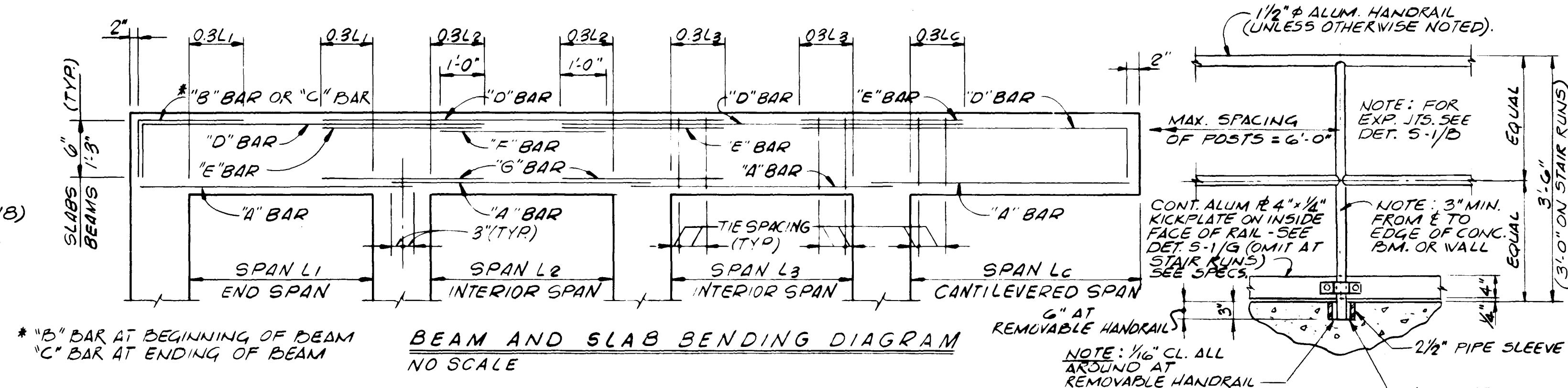
HEATING & VENTILATION/
SCHEDULES & SECTIONS
CONTR. NO. JS 40.7 PROJ. NO. 7316 SHEET NO. 20 OF 42

SUBMITTED BY: <i>James S. English</i>		APPROVED BY: _____	
REG. ENGR. FLA. NO. 6847 DATE 9/76		REG. ENGR. FLA. NO. _____ DATE _____	
FLOOD & ASSOCIATES, INC.		WATER AND SEWER DIVISION	
APPROVAL RECOMMENDED BY: <i>James S. English</i>		AUTHORIZED BY: <i>James S. English</i>	
REG. ENGR. FLA. NO. 6847 DATE 9/76		REG. ENGR. FLA. NO. 6847 DATE 9/76	
SVERDRUP & PARCEL AND ASSOCIATES, INC.		OFFICE OF DIRECTOR OF PUBLIC WORKS	
CITY OF JACKSONVILLE, FLORIDA		CITY OF JACKSONVILLE, FLORIDA	

NO.	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE
1	PRE BID REVISION	JTB	F&A	9/77	3/78	J.H.B.	3/78	
REVISIONS		SUBMITTAL		APPROVAL				

(ALL DESIGN PER "CITY OF JACKSONVILLE, FLORIDA"
BUILDING CODE, EXCEPT AS NOTED.)

1. LIVE LOADS:
 ROOF _____ 20 # / SQ. FT.
 FLOORS _____ 100 # / SQ. FT.
2. ALLOWABLE UNIT STRESSES:
 CONCRETE (DESIGN PER CURRENT EDITION ACI-318)
 f'c. AS SPECIFIED.
 STRUCTURAL STEEL (DESIGN PER CURRENT EDITION
 A.I.S.C. "MANUAL OF STEEL CONSTRUCTION")
 SOIL BEARING (DESIGN MAXIMUM) --- 2,000 # / SQ. FT.

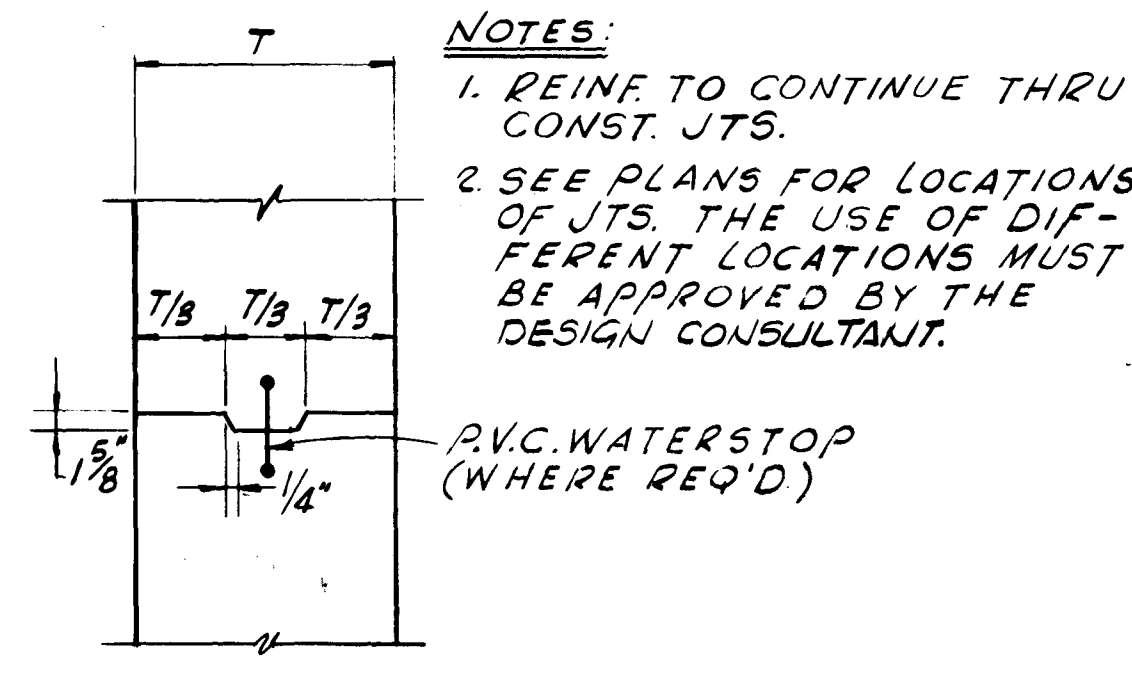
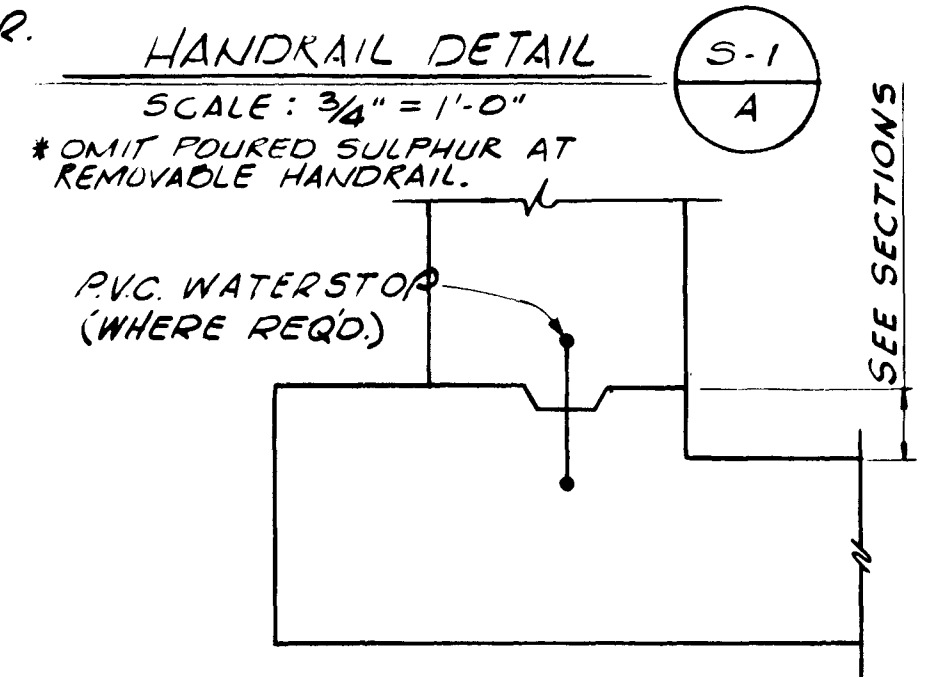


1. CONCRETE FOR SIDE WALKS & FILL SHALL BE CLASS "C". ALL OTHERS SHALL BE CLASS "A". SEE SPECIFICATIONS FOR MIX DESIGN STRENGTH.
2. UNLESS OTHERWISE SHOWN ON DRAWINGS, MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS:

FOOTINGS	-----	3"
SURFACES CONTACTING LIQUID	-----	2"
COLUMNS & PEDESTALS (OVER VERT REINF.)	-----	2"
WALLS	-----	2
SLABS	-----	3/4"
BEAMS (OVER MAIN REINF.)	-----	1 1/2"
ALL CONC. POURED DIRECTLY ON GROUND	-----	3"
3. ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING PLACING OF THE CONCRETE. ACCESSORIES TO HAVE PRIOR APPROVAL.
4. SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE IN ACCORDANCE WITH THE SCHEDULE SHOWN BELOW (UNLESS OTHERWISE NOTED), LARGER BAR SPLICED.
5. IN TWO-WAY SLABS PLACE SHORT SPAN BARS IN OUTER LAYER, UNLESS OTHERWISE NOTED.
6. TERMINATE ALL TOP BARS AT DISCONTINUOUS ENDS OF BEAMS WITH A STANDARD 90° HOOK.
7. MEMBRANE WATERPROOFING TO BE ASPHALT SATURATED FELTS (SEE SPECIFICATIONS), DAMP CHECK MEMBRANE (MOISTURE BARRIER) TO BE POLYETHYLENE SHEETS (SEE SPECIFICATIONS).
8. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL EMBEDDED ITEMS NOT DETAILED.
9. UNLESS OTHERWISE NOTED, SPLICES IN TOP REINFORCING SHALL BE MADE AT MID-SPAN.
10. PROVIDE 1/4" PREMOULDED EXPANSION JOINT MATERIAL WHERE SLAB ON GRADE IS POURED AROUND COLUMNS & AGAINST GRADE BEAM OR WALLS UNLESS OTHERWISE SHOWN.
11. STEEL STAIR STRINGERS SHALL BE FABRICATED AS CONTINUOUS BENT BEAMS UNLESS OTHERWISE SHOWN.
12. A LIFT HOLE SHALL BE PROVIDED IN EACH PIECE OF FLOOR PLATE.
13. SET PIPE HANDRAILS ON CONC. STAIRS IN PIPE SLEEVES UNLESS OTHERWISE SHOWN.
14. ALL PRECAST LINTELS SHALL BE REINFORCED WITH 2#4 TOP & BOT. AS MIN. & SHALL HAVE A MIN. MASONRY END BEARING OF 8".
15. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS BEFORE PROCEEDING WITH CONSTRUCTION.
16. ALL STRUCT. OPENINGS AROUND OR AFFECTED BY MECH., ELECT. & PLUMBING EQUIPMENT SHALL BE VERIFIED WITH EQUIPMENT PURCHASED BEFORE PROCEEDING WITH STRUCT. WORK AFFECTED.
17. PROVIDE 3/4" CHAMFER ON ALL EXPOSED CORNERS OF BEAMS, COLUMNS, WALLS, ETC.
18. DOWELS FROM SLABS TO WALLS, SHALL MATCH SIZE OF WALL REINF. AND BE IMBEDDED A SPLICE LENGTH INTO SLAB (UNLESS OTHERWISE NOTED).
19. IT IS THE REQUIREMENT AND INTENT OF THE PLANS & SPECS. THAT THE PUMPING STATION AND OTHER SUB-GRADE STRUCTURES TO BE CONSTRUCTED WATER TIGHT TO PREVENT EITHER EXFILTRATION OF TANK CONTENT OR INFILTRATION OF GROUNDWATER; TO THIS END EFFECT, WATERSTOP SHALL BE USED IN ALL EXTERIOR CONST. JTS. & EXP. JOINTS OF TANKS, PITS & WALLS, WHETHER OR NOT SPECIFICALLY NOTED.
20. CONSTRUCTION JOINTS SHALL BE SPACED 60' O.C. MAX. IN ANY DIRECTION, UNLESS OTHERWISE APPROVED BY THE DESIGN CONSULTANT.
21. ACTUAL FINISH GRADE ELEVATIONS MAY VARY FROM APPROX. ELEVATIONS SHOWN ON THE STRUCTURAL DWGS. SEE SITE & GRADING PLANS FOR ACTUAL.

BEAM AND SLAB NOTES:

1. IN BEAM SCHEDULE, TIE SPACING "1" INDICATES A TIE PLACED NEAR END OF TOP BAR.
2. MINIMUM CLEAR HORIZ. DISTANCE BETWEEN BARS TO BE $1\frac{1}{2}$ TIMES DIAMETER BAR;
WHERE NECESSARY BARS SHALL BE PLACED IN TWO LAYERS TO MAINTAIN
THIS REQUIREMENT
3. SEE PLANS & SECTIONS FOR ADDITIONAL REINFORCING NOT SHOWN
4. DEPTH OF BEAM SHOWN IN SCHEDULE IS MEASURED FROM DEEPEST
DEPRESSION IN BEAM.
5. WHERE TIE PLACEMENT EXCEEDS LENGTH OF TOP BARS PROVIDE 2*3
SPACER BARS FOR SUPPORT OF FREE STANDING TIES.
6. IN BEAM SCHEDULE, WHERE BARS ARE IN TWO LAYERS: THE OUTER LAYER IS
SCHEDULED FIRST. PROVIDE 1" CLEAR BETWEEN LAYERS.

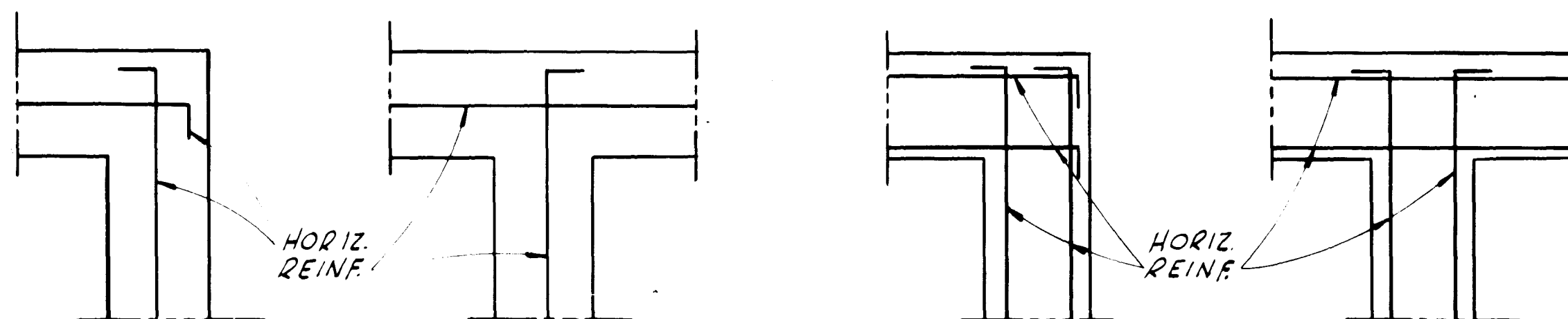


WALL & SLAB

TYPICAL KEY

TYPICAL JOINT DETAILS

NO SCALE



SINGLE LAYER

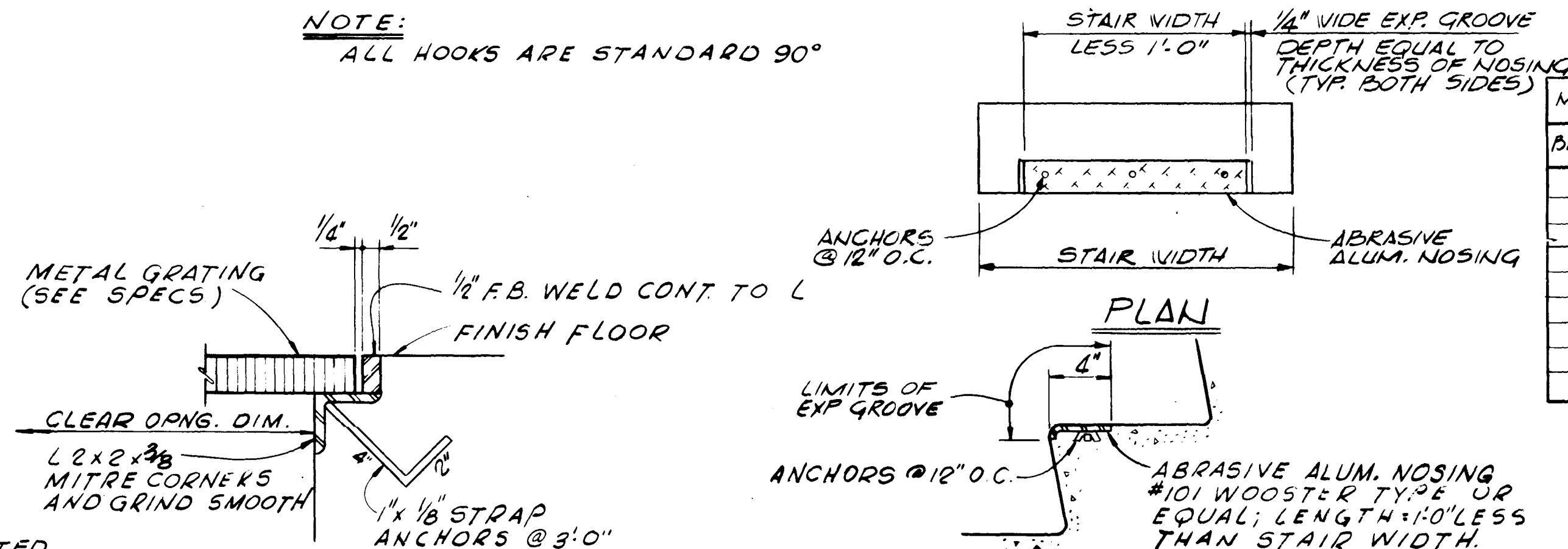
2-LAYERS

TYPICAL CONCRETE WALL CORNER DETAILS

NO SCALE

NOTE:

ALL HOOKS ARE STANDARD 90°

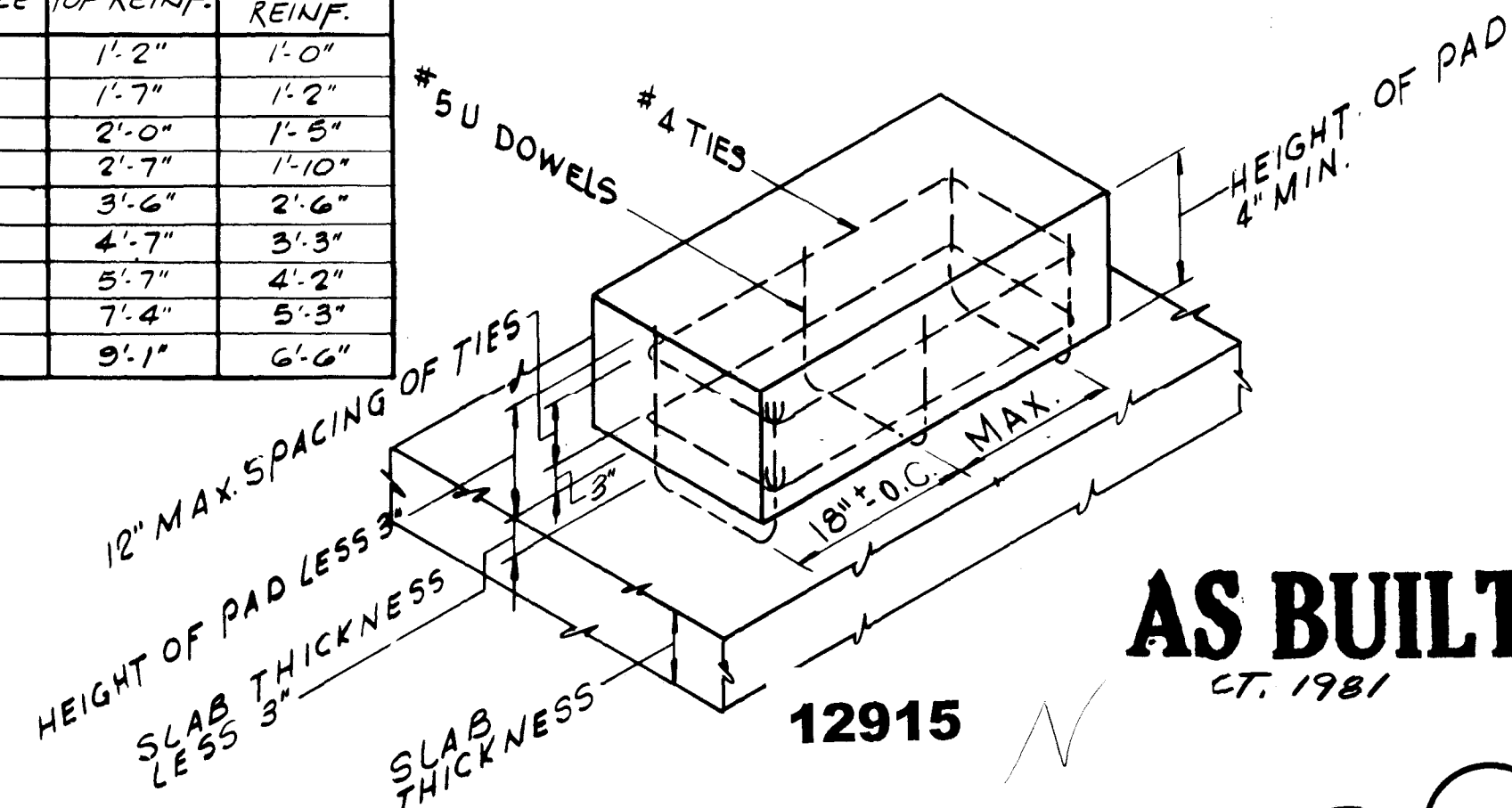


SECTION

TYPICAL DETAIL

CONCRETE STAIR NOSING
NO SCALE

MINIMUM SPLICE LENGTHS		
BAR SIZE	TOP REINF.	ALL OTHER REINF.
#3	1'-2"	1'-0"
#4	1'-7"	1'-2"
#5	2'-0"	1'-5"
#6	2'-7"	1'-10"
#7	3'-6"	2'-6"
#8	4'-7"	3'-3"
#9	5'-7"	4'-2"
#10	7'-4"	5'-3"
#11	9'-1"	6'-6"



AS BUILT

CT, 1981

GENERAL NOTES & TYPICAL DETAILS

										SUBMITTED BY: <i>[Signature]</i>	
										REG. ENGR. P.L.A. NO. 6847 DATE 11/76	
										FLOOD & ASSOCIATES, INC.	
										APPROVAL	
										RECOMMENDED BY: <i>[Signature]</i>	
										REG. ENGR. P.L.A. NO. 14024 DATE 3-28-78	
										SVERDRUP & PARCEL AND ASSOCIATES, INC.	
NO.	DESCRIPTION				BY	FIRM	DATE	S&P	DATE	PW	DATE
REVISIONS											
SUBMITTAL						APPROVAL					

APPROVED BY: _____ DATE: _____
 REG. ENGR. FLA. NO. _____ WATER AND SEWER DIVISION
 AUTHORIZED BY: *W. H. [Signature]*
 REG. ENGR. FLA. NO. *04270* DATE: *3/3/78*
 OFFICE OF DIRECTOR OF PUBLIC WORKS
 CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
ST. JOHNS BLUFF
MASTER PUMPING STATION

FLOOD & ASSOCIATES, INC.

DESIGN CONSULTANT

SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT

RETAILED BY SFM	SCALE AS SHOWN	DATE SEPT. 1976
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CHECKED BY: L.T.H.

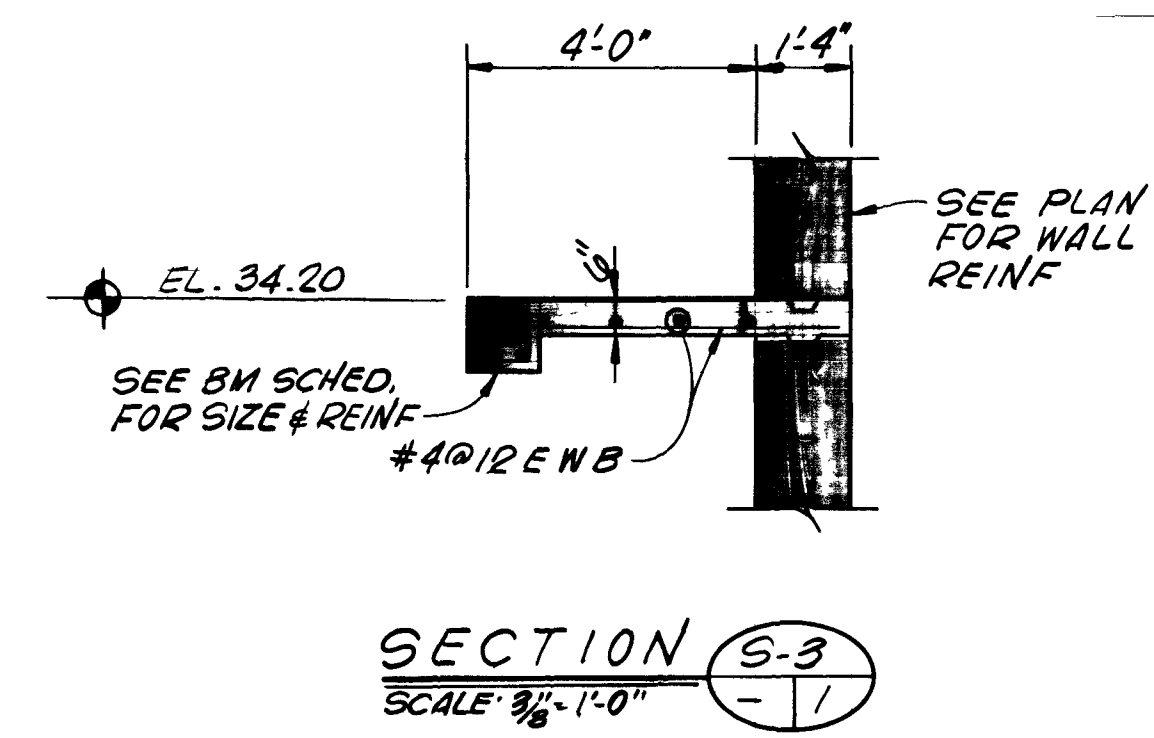
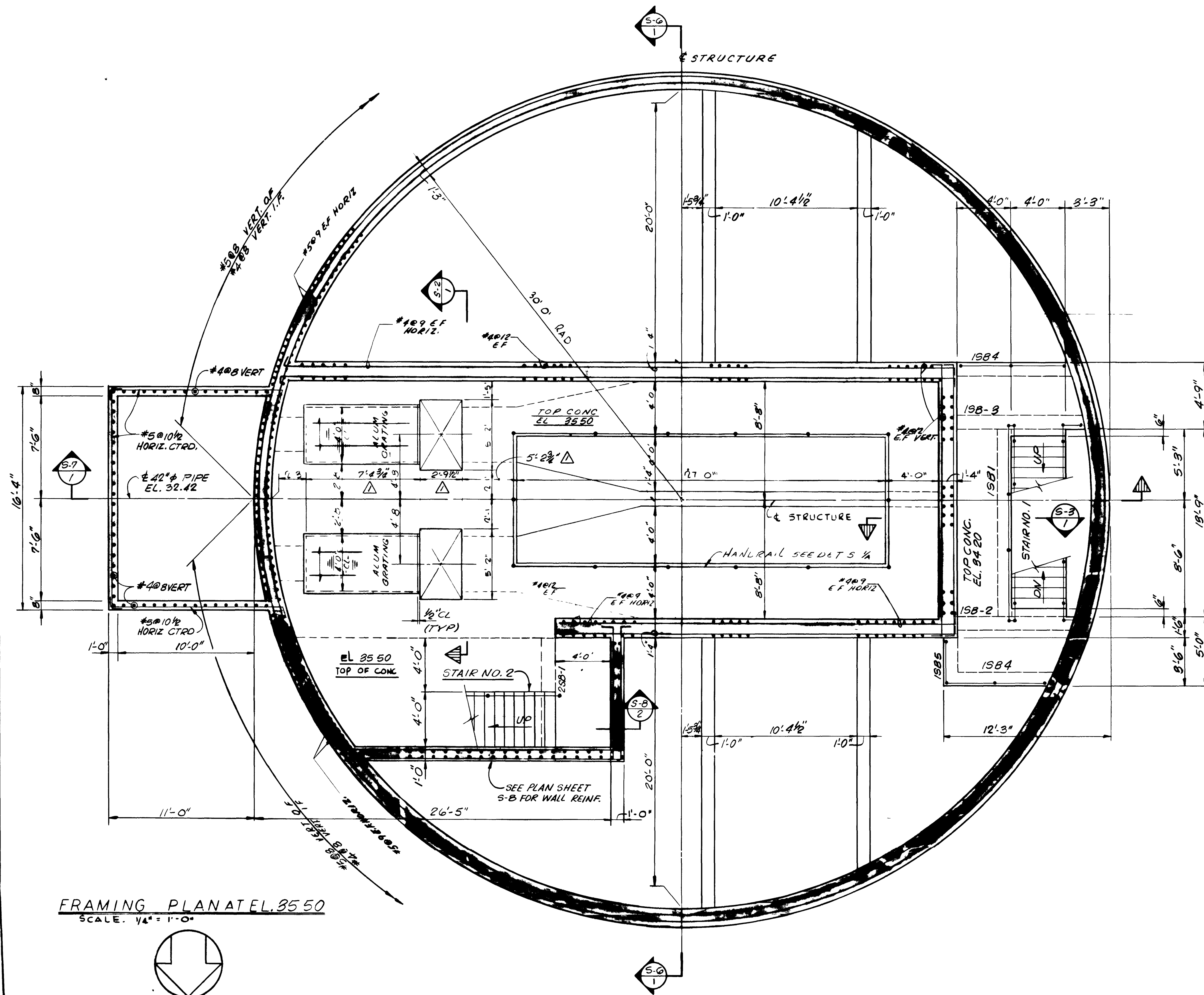
GENERAL NOTES &

GENERAL NOTES & TYPICAL DETAILS

CONTR. NO. JS-40.7

PROJ. NO. 7316

SHEET NO. **21** OF **42**



FRAMING PLAN AT EL. 35.50
SCALE: 1/4" = 1'-0"

12917

AS BUILT
OCT. 1981

(S-3)

NO	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE
1	REVISED PER MECH BAR SCREEN FURNISHED	FW5	F&A	1-79	GEC	1/79	JHP	1/79
REVISIONS		SUBMITTAL		APPROVAL				

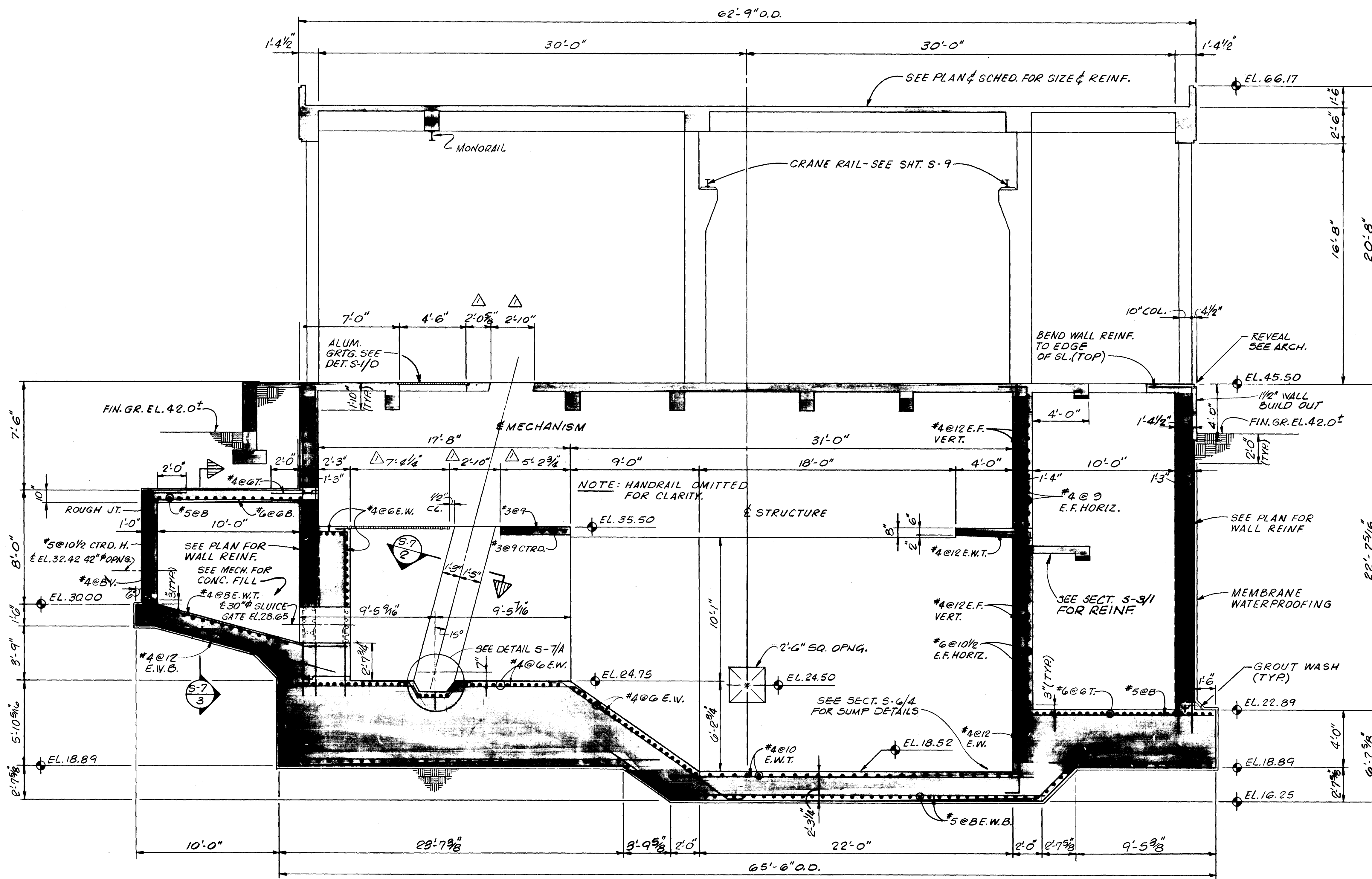
SUBMITTED BY: *James S. England*
REG ENGR FLA NO. 6847 DATE 9/76
FLOOD & ASSOCIATES, INC.
APPROVED BY: *Clayton E. Smith*
REG ENGR FLA NO. 14804 DATE 3-28-78
SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: *Clayton E. Smith*
REG ENGR FLA NO. 14804 DATE 3-28-78
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

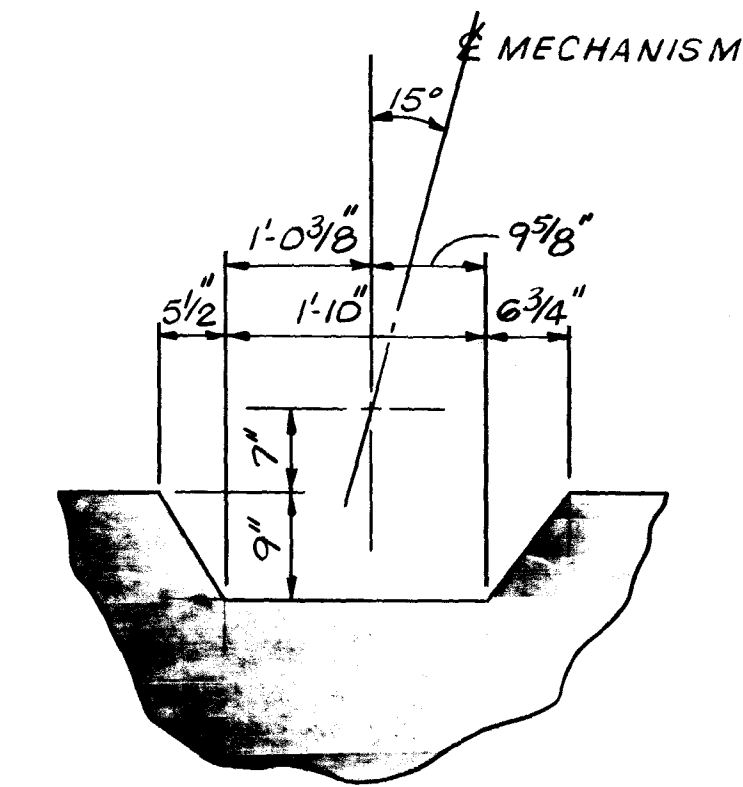
CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
ST JOHNS BLUFF
MASTER PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT
SVERDRUP & PARCEL AND ASSOCIATES, INC. -- GENERAL CONSULTANT
DETAILED BY: J.A.H. SCALE: AS SHOWN DATE: SEPT. 1976
CHECKED BY: L.T.H.

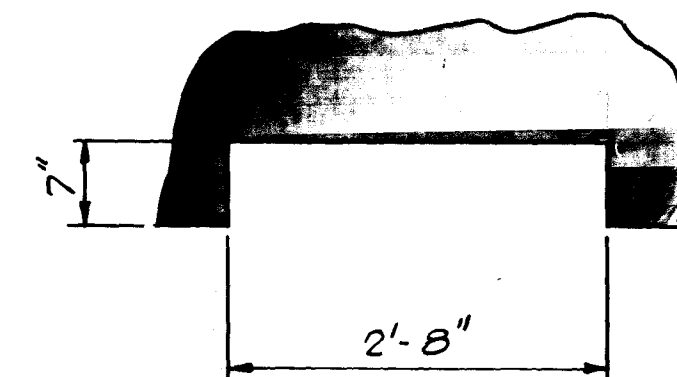
FRAMING PLAN AT
ELEV. 35.50
CONTR NO. JS-40.7 PROJ NO. 7316 SHEET NO. 23 OF 42



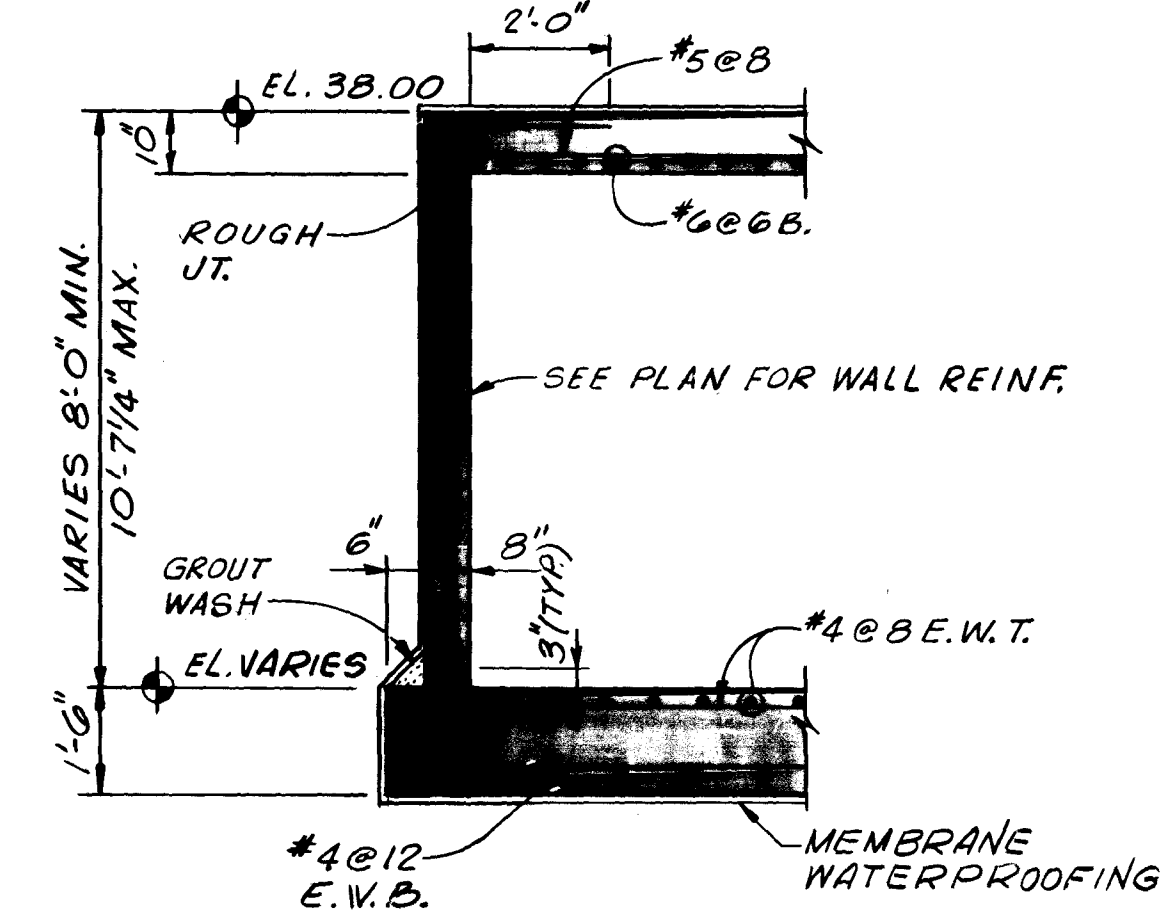
SECTION S-7
SCALE: 1/4" = 1'-0"



DETAIL S-7
SCALE: 3/4" = 1'-0"



SECTION S-7 SCREEN RECESS
SCALE: 3/4" = 1'-0"



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

NO.	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	PW	DATE
1	REVISED PER MECH. BAR SCREEN FURNISHED AWS F&A 1-79	GEG	1/79	1/79				
2	REVISIONS							

SUBMITTED BY: *[Signature]*
 REG. ENGR. FLA. NO. 6847 DATE 9/76
 FLOOD & ASSOCIATES, INC.
 APPROVAL
 RECOMMENDED BY: *[Signature]*
 REG. ENGR. FLA. NO. 14824 DATE 3-28-79
 SVERDRUP & PARCEL AND ASSOCIATES, INC.

APPROVED BY: _____
 REG. ENGR. FLA. NO. _____ DATE _____
 WATER AND SEWER DIVISION
 AUTHORIZED BY: *[Signature]*
 REG. ENGR. FLA. NO. 14270 DATE 2/20/78
 OFFICE OF DIRECTOR OF PUBLIC WORKS
 CITY OF JACKSONVILLE, FLORIDA

CITY OF JACKSONVILLE, FLORIDA
 SEWERAGE IMPROVEMENT PROGRAM
 ST. JOHNS BLUFF
 MASTER PUMPING STATION

FLOOD & ASSOCIATES, INC.
 DESIGN CONSULTANT
 SVERDRUP & PARCEL AND ASSOCIATES, INC. -- GENERAL CONSULTANT
 DETAILED BY: R.N.S. SCALE AS SHOWN DATE SEPT. 1976
 CHECKED BY: L.T.H.

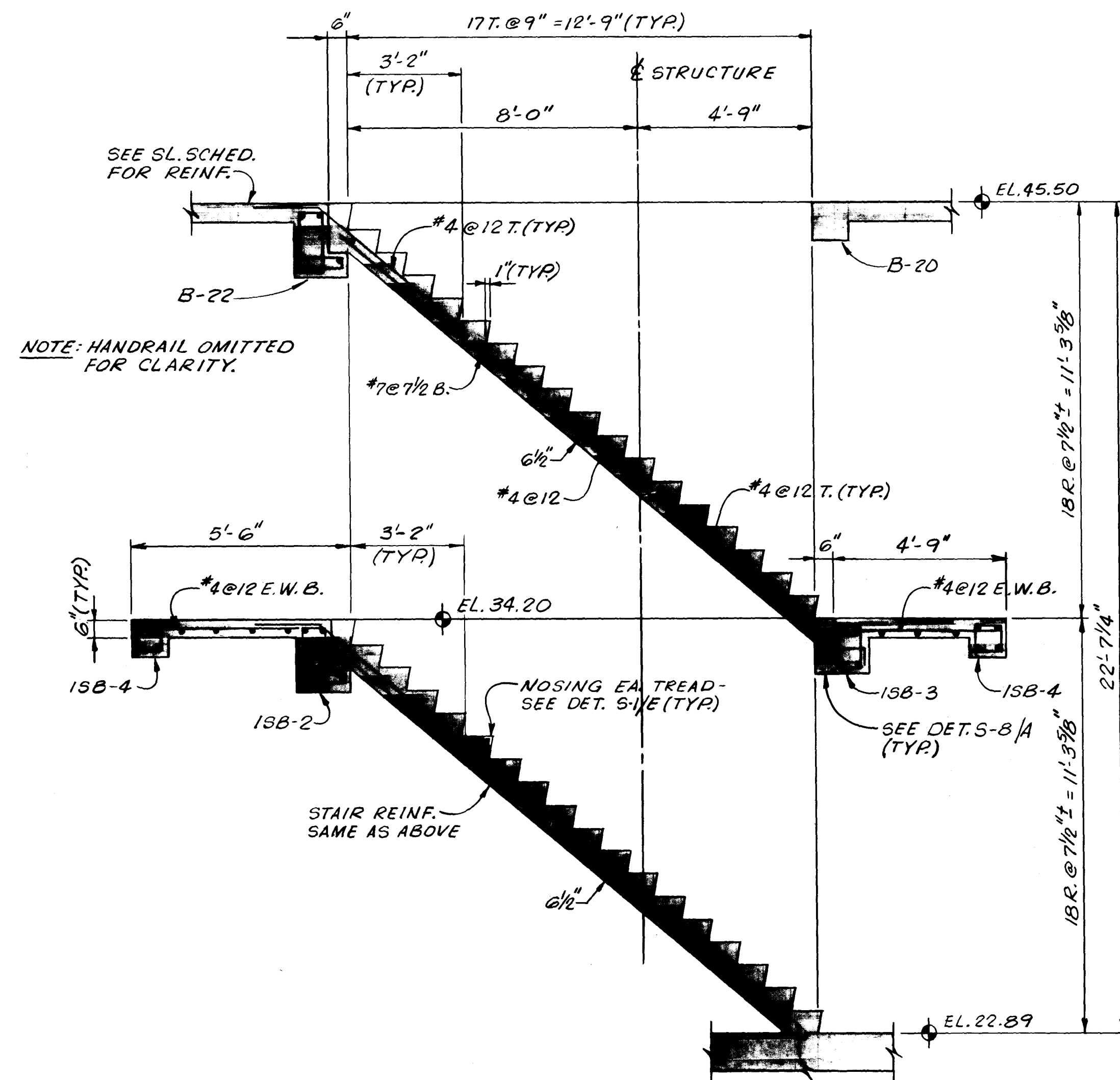
CONTR. NO. JS-40.7 PROJ. NO. 7316 SHEET NO. 27 OF 42

12921

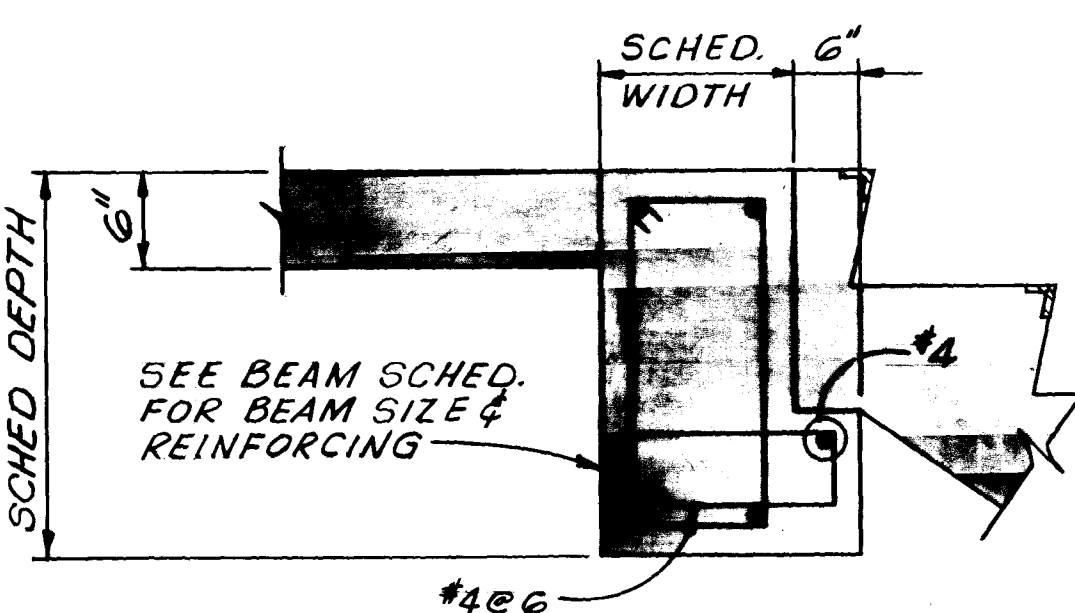
AS BUILT
 OCT. 1981

S-7

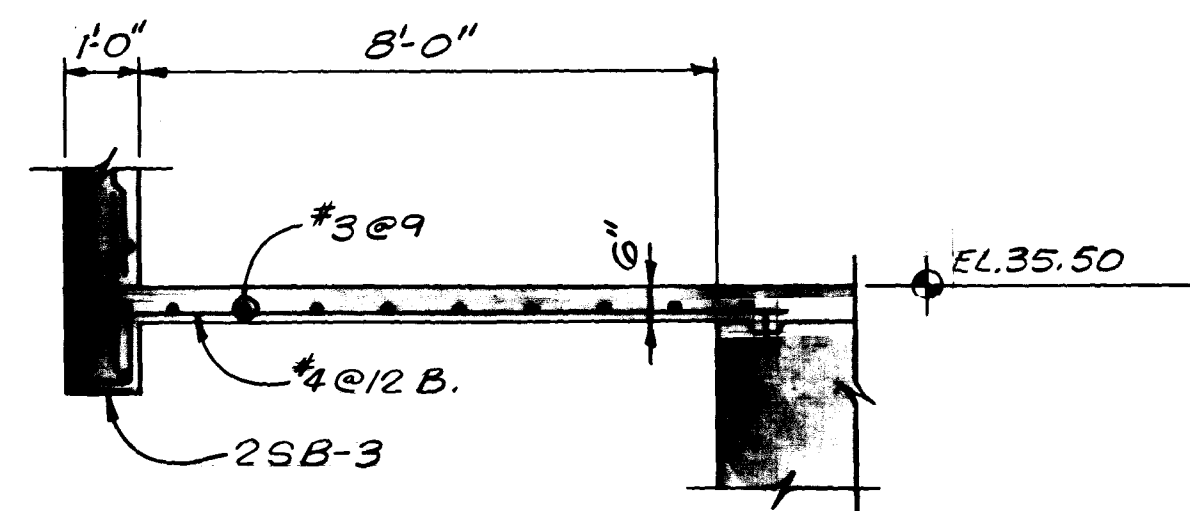
SECTIONS



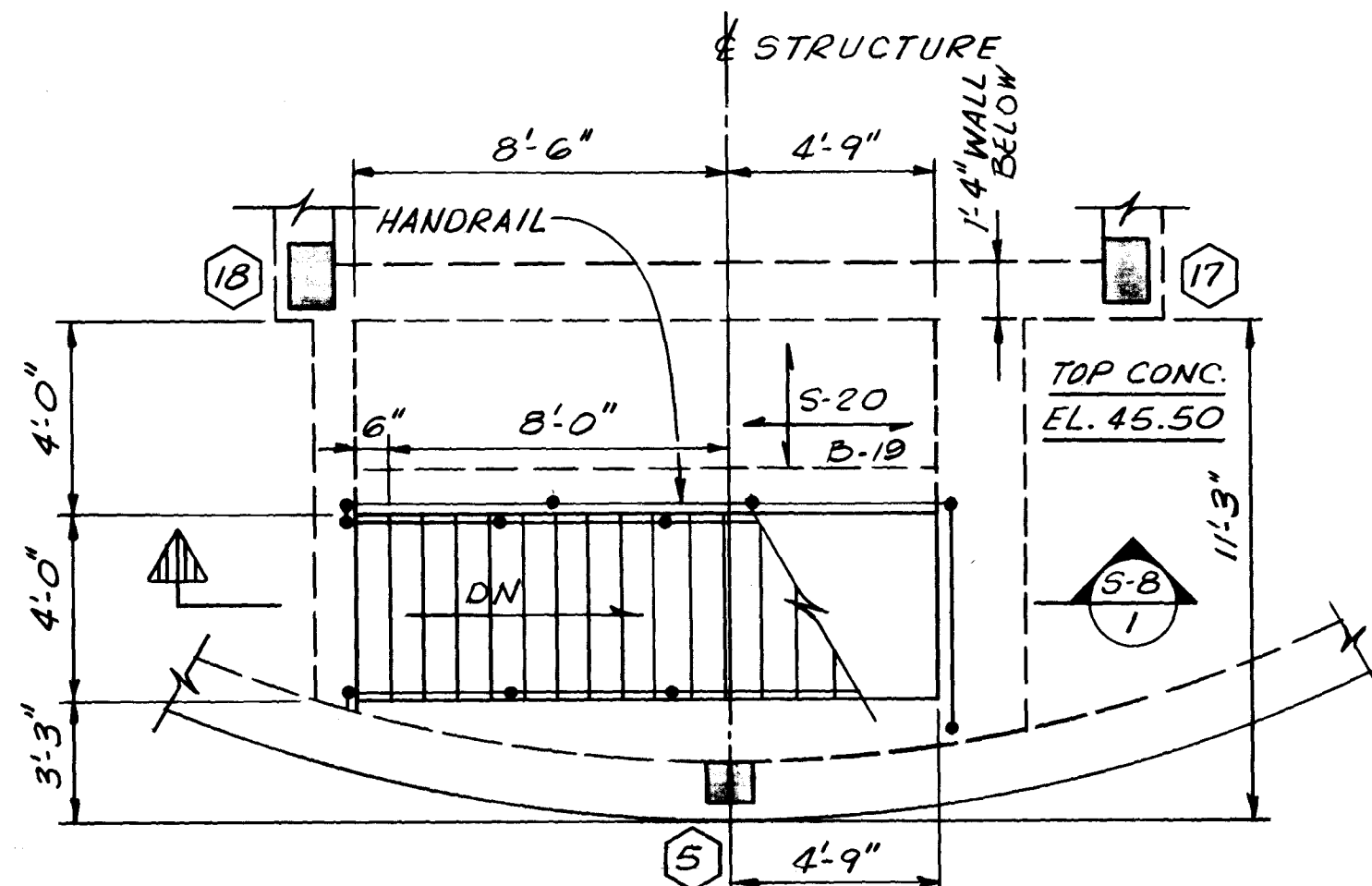
SECTION S-B STAIR NO.1
SCALE: 3/8\"=1'-0\"



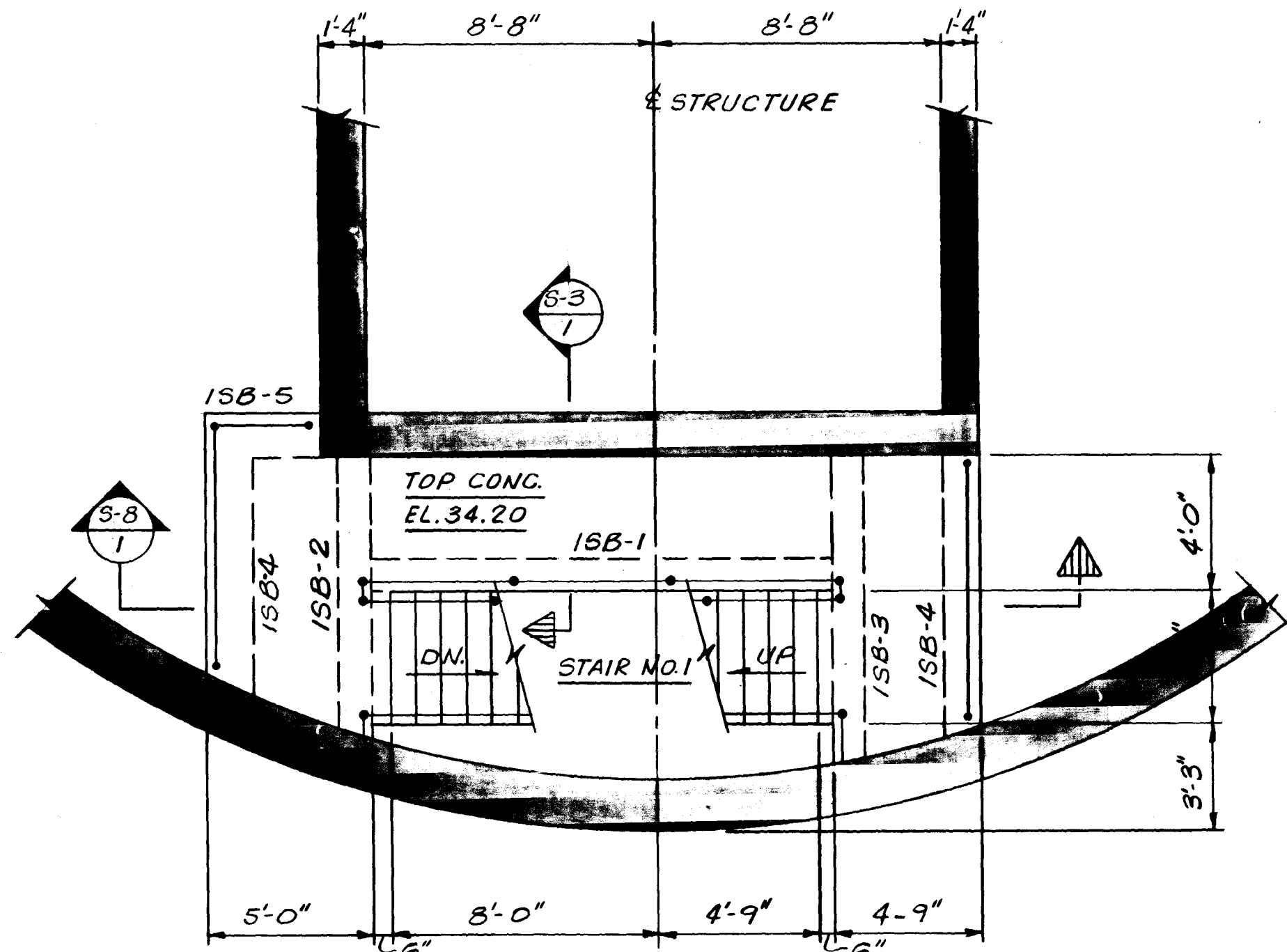
DETAIL S-B A
SCALE: 1\"=1'-0\"



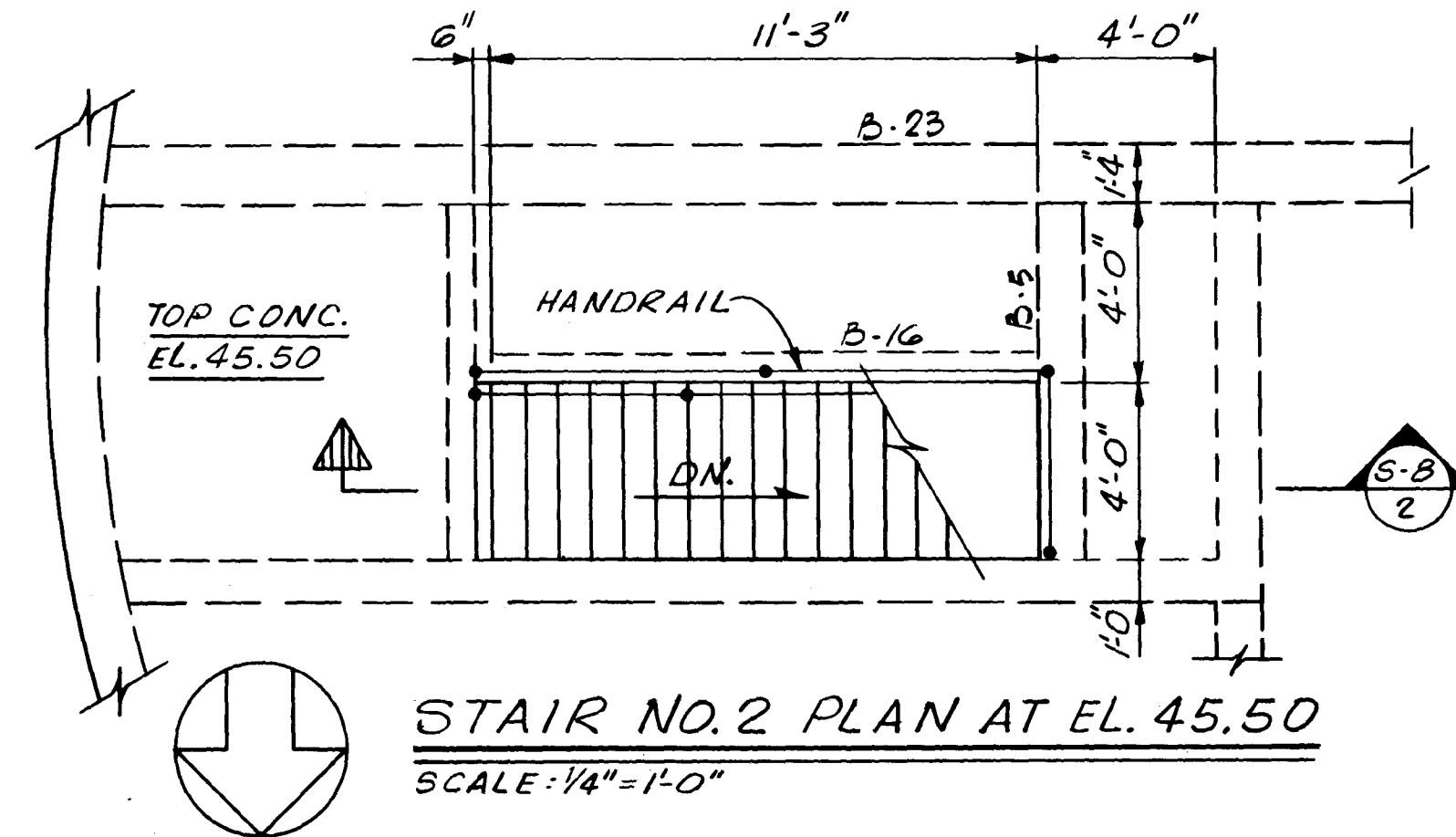
SECTION S-B 3
SCALE: 3/8\"=1'-0\"



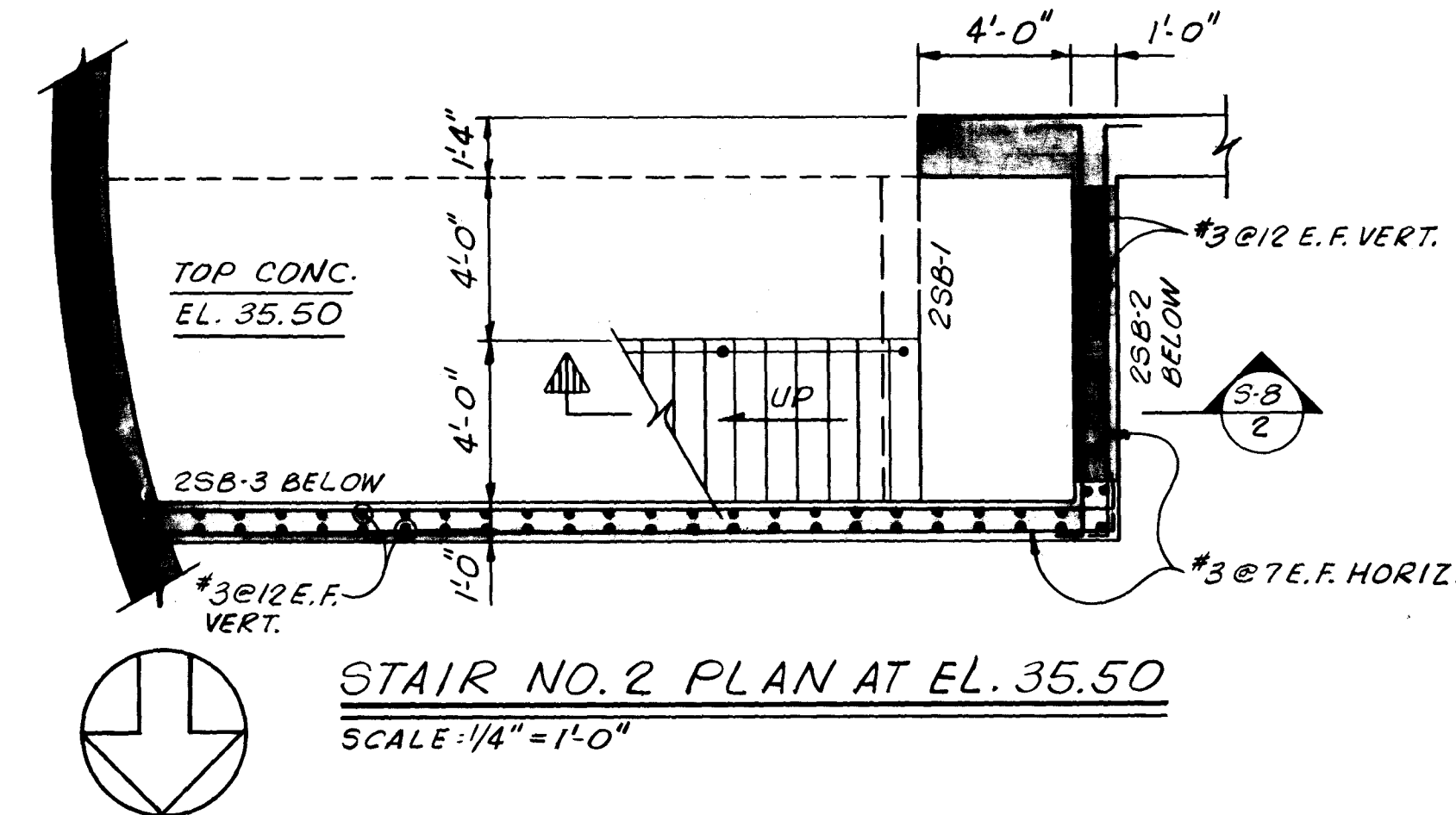
STAIR NO.1
PLAN AT EL. 45.50
SCALE: 1/4\"=1'-0\"



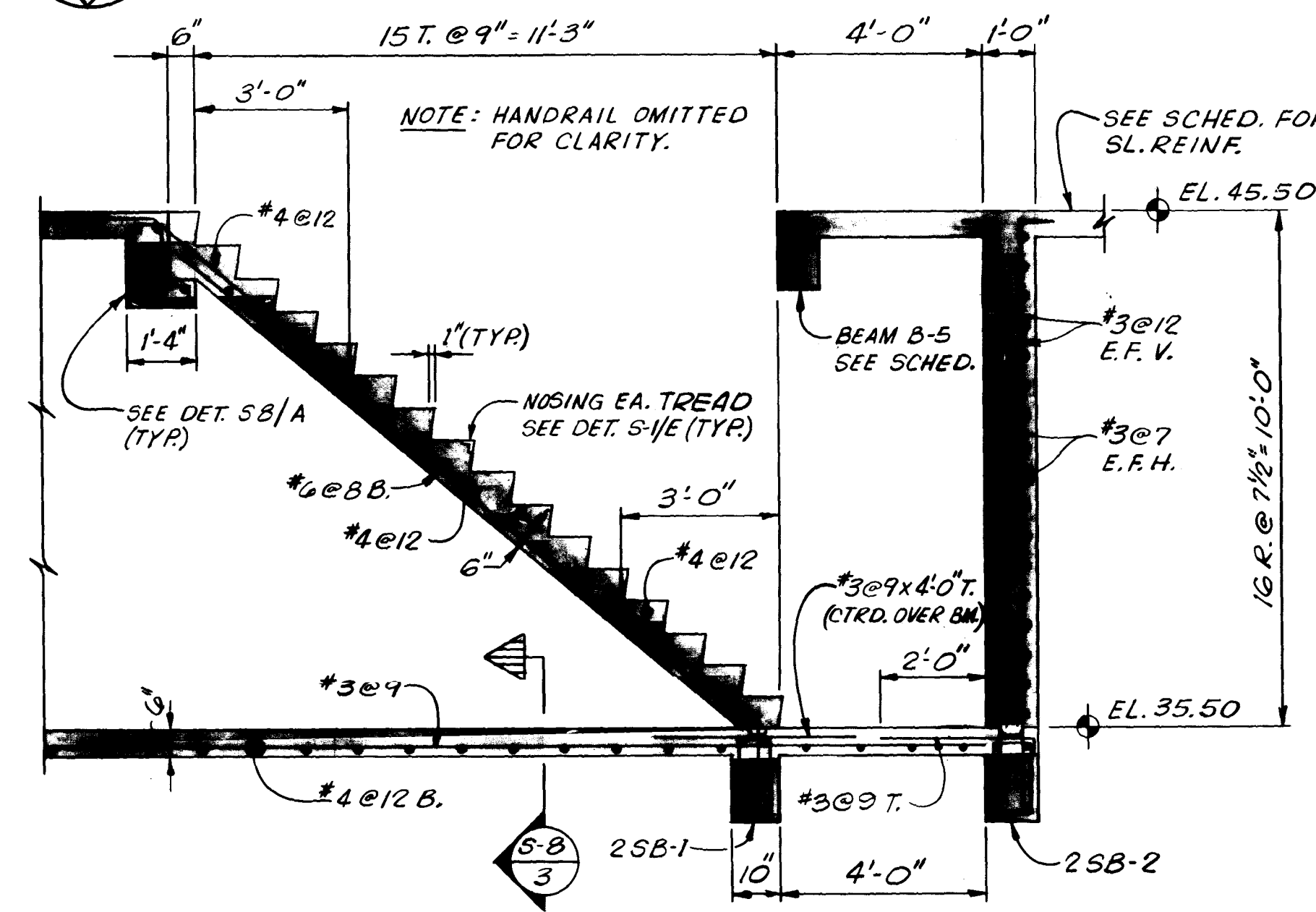
STAIR NO.1
PLAN AT EL. 34.20
SCALE: 1/4\"=1'-0\"



STAIR NO.2 PLAN AT EL. 45.50
SCALE: 1/4\"=1'-0\"



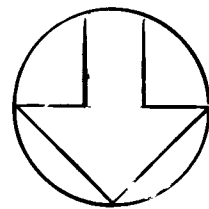
STAIR NO.2 PLAN AT EL. 35.50
SCALE: 1/4\"=1'-0\"



SECTION S-B STAIR NO.2
SCALE: 3/8\"=1'-0\"

AS BUILT
OCT. 1981

										SUBMITTED BY: <u>James S. English</u> REG. ENGR. FLA. NO. <u>6847</u> DATE <u>9/76</u> FLOOD & ASSOCIATES, INC.										APPROVED BY: _____ DATE _____ REG. ENGR. FLA. NO. _____ DATE _____ WATER AND SEWER DIVISION AUTHORIZED BY: <u>OK 10/15/81</u> REG. ENGR. FLA. NO. <u>3150</u> DATE <u>3/77</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM ST. JOHNS BLUFF MASTER PUMPING STATION										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT SVERDRUP & PARCEL AND ASSOCIATES, INC. -- GENERAL CONSULTANT DETAILED BY: <u>J.A.B.</u> SCALE <u>AS SHOWN</u> DATE <u>SEPT. 1976</u> CHECKED BY: <u>L.T.H.</u>										STAIR PLANS & SECTIONS CONTR. NO. <u>JS-40.7</u> PROJ. NO. <u>7316</u> SHEET NO. <u>28</u> OF <u>42</u>									
NO.	DESCRIPTION										BY	FIRM	DATE	S&P	DATE	PW	DATE	REVISIONS																																									
	SUBMITTAL										APPROVAL																																																



NOTE: CRANE RAIL SYSTEM IS DESIGNED FOR 1-5 TON MANUAL BRIDGE CRANE.



1 FABRICATE CRANE BEAMS SO THAT C/DX/5.3 $\neq$ W/2 x 1/6 ACT INTEGRALLY COMPOSITE SECTION TO BE WELDED IN SHOP PER APPROVED SHOP DWG'S

2 CRANE RAIL SHALL BE INSTALLED IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION; ϕ MFR'S RECOMMENDATIONS. SPLICES SHALL BE BOLTED WITH TIGHT JOINT FASTENINGS SHALL BE BY "FIXED" TYPE RAIL CLAMPS, PAIRED, PER MFR'S RECOMMENDATIONS, 24" O.C. MAX.

AS BUILT

- 1 SEE PLAN FOR ORIENTATION
- 2 ALL COLUMN TIES TO BE IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE, 315 (LATEST EDITION)
- 3 EACH COLUMN TIE TO CONTAIN AT LEAST FOUR (4) REINFORCING BARS.
- 4 ENDS OF ALL TIES TO HAVE MINIMUM 135° BEND
- 5 VERTICAL COLUMN REINFORCING #7 AND SMALLER SHALL HAVE "2 TIES @ 12" #8 BARS AND LARGER SHALL HAVE "3 TIES @ 12"
- 6 WHERE COLUMN IS PART OF CONCRETE WALL, EXTEND COLUMN REINFORCING AND TIES THRU WALL
- 7 POUR COLUMNS INTEGRAL WITH CONCRETE WALLS
- 8 TERMINATE DISCONTINUOUS VERTICAL REINFORCING WITH A 90° HOOK AND 1'-0" HORIZONTAL EXTENSION
- 9 DOWEL COLUMNS INTO WALL OR SLAB BELOW DOWELS TO MATCH VERT REINF

12923

6-9)

APPROVED BY _____

REG ENGR FLA NO _____ DATE _____
WATER AND SEWER DIVISION

AUTHORIZED BY *[Signature]*

REG ENGR FLA NO *94270* DATE *3/30/78*
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
ST. JOHNS BLUFF
MASTER PUMPING STATION

DETAILED BY	TA H.	SCALE	AS SHOWN	DATE	SEPT. 1976
CHECKED BY	LTH				

CONTR NO JS-40.7	PROJ NO 7316	SHEET NO 29 OF 42
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[illegible][illegible]

1. 555 SHEETS 5-1 FOR ADDITIONAL NOTES
AND BENDING DIAGRAM
2. IN DIAGRAM READING FROM NORTH TO SOUTH &
EAST TO WEST, "E" BARS ARE PLACED IN
SOUTH OR WEST END OF BEAM OR SLAB
IN WHICH THEY ARE SCHEDULED.
3. REINFORCING IN BEAMS OR SLABS RUNNING
NORTH OR SOUTH DIRECTION SHALL BE
PLACED IN OUTER CORNER OF INTERSECTION
WITH BEAMS OR SLABS RUNNING IN EAST
TO WEST DIRECTION.

ROOF HATCH TO BE BABCOCK-
DAVIS 2'-6" x 3'-0" WITH ALUM.
COVER & CURB
SEE DETAIL A-2/29

CANT
SIM. TO
DETAIL:

1" SOLID
ALUM RUNG
@ 12" O C (TYP)



(TYP.)

FL. 45.50 1.0

ALUM CLIP 3x3x1/4
W 5/8" BOLT IN
PHILLIPS REDHEAD
CONC ANCHOR

SCALE $\frac{3}{8}'' = 1'-0''$

NOTE. SEE ARCH. DWGS. FOR LOCATION OF LADDER.

SECTION S-10
SCALE 1/2" = 1'-0" - 1

TYPICAL RUNG DETAIL (S-10)
SCALE: 3"=1'-0" - 8

12924

AS BUILT

OCT. 1981

S-10

CITY OF JACKSONVILLE, FLORIDA

SEWERAGE IMPROVEMENT PROGRAM
ST. JOHNS BLUFF
MASTER PUMPING STATION

FLOOD & ASSOCIATES, INC.

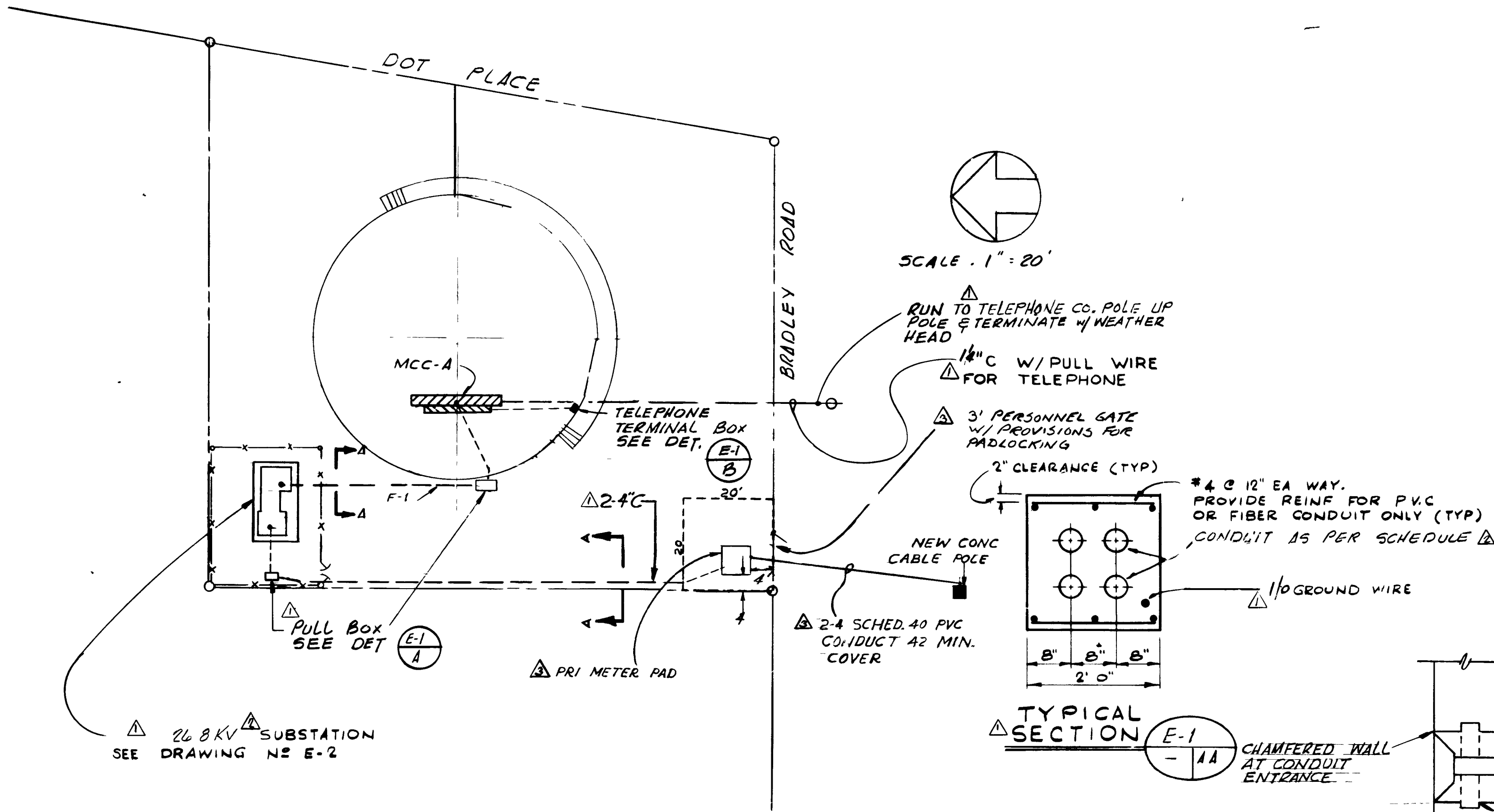
DESIGN CONSULTANT

SVERDRUP & PARCEL AND ASSOCIATES, INC --- GENERAL CONSULTANT

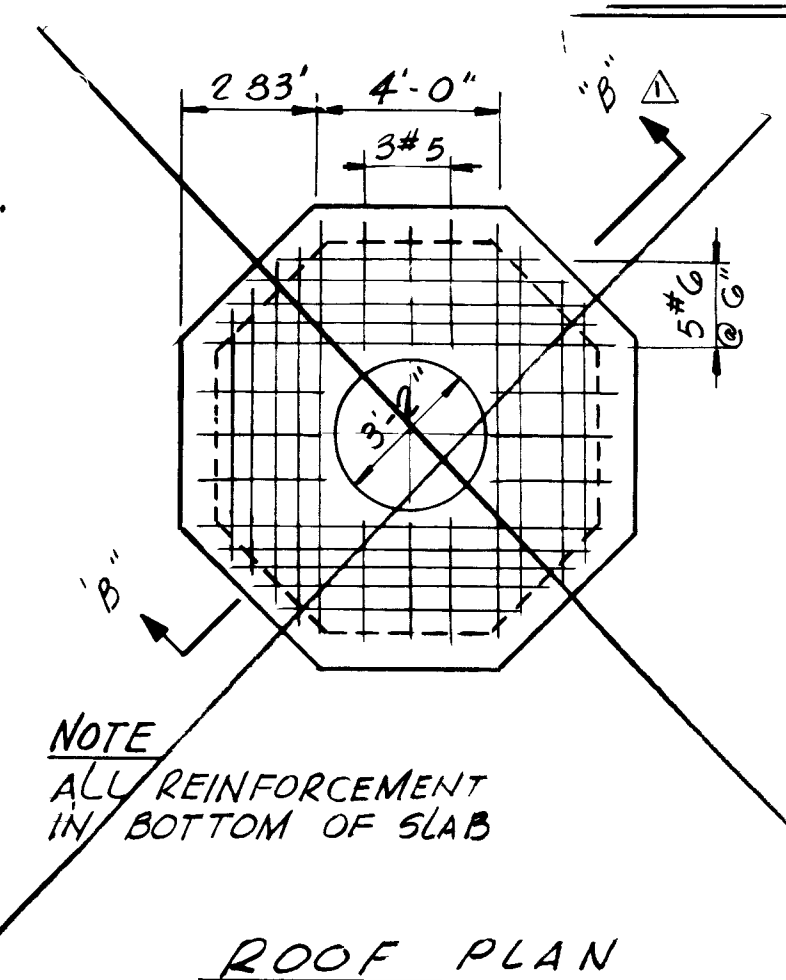
DETAILED BY	JAB	SCALE	AS SHOWN	DATE	SEPT. 1976
CHECKED BY	LTH				

BEAM & SLAB SCHEDULES

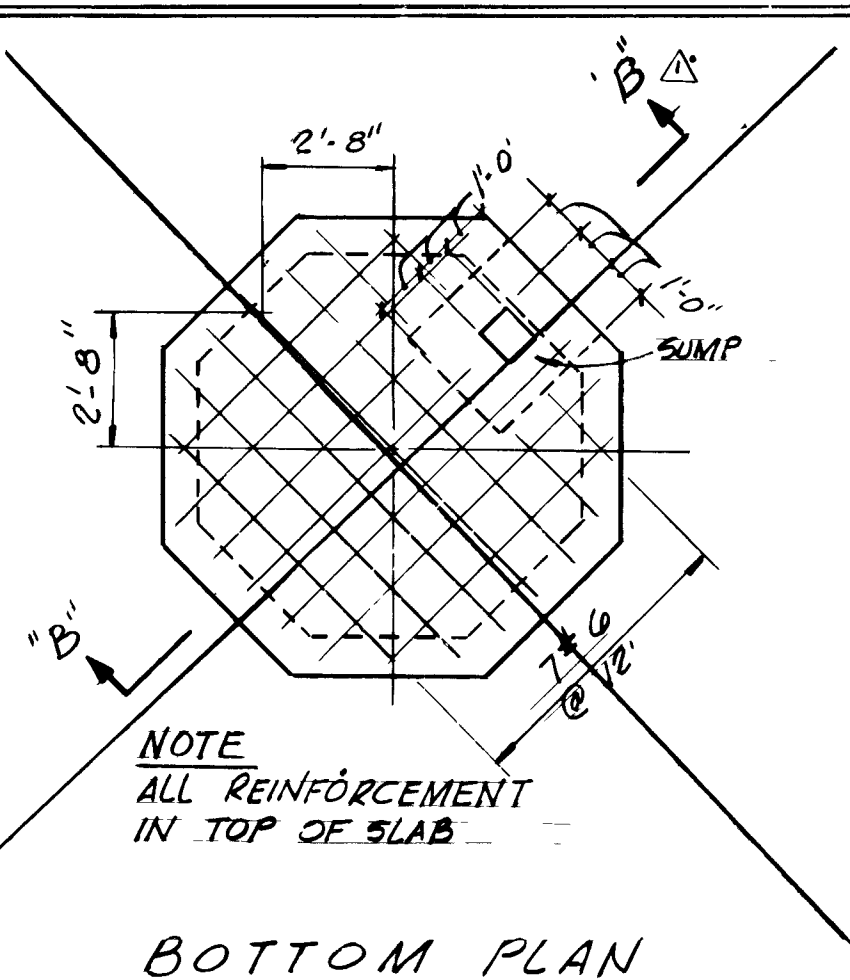
CONTR NO JS-40.7 PROJ NO 7316 SHEET NO 30 OF 42



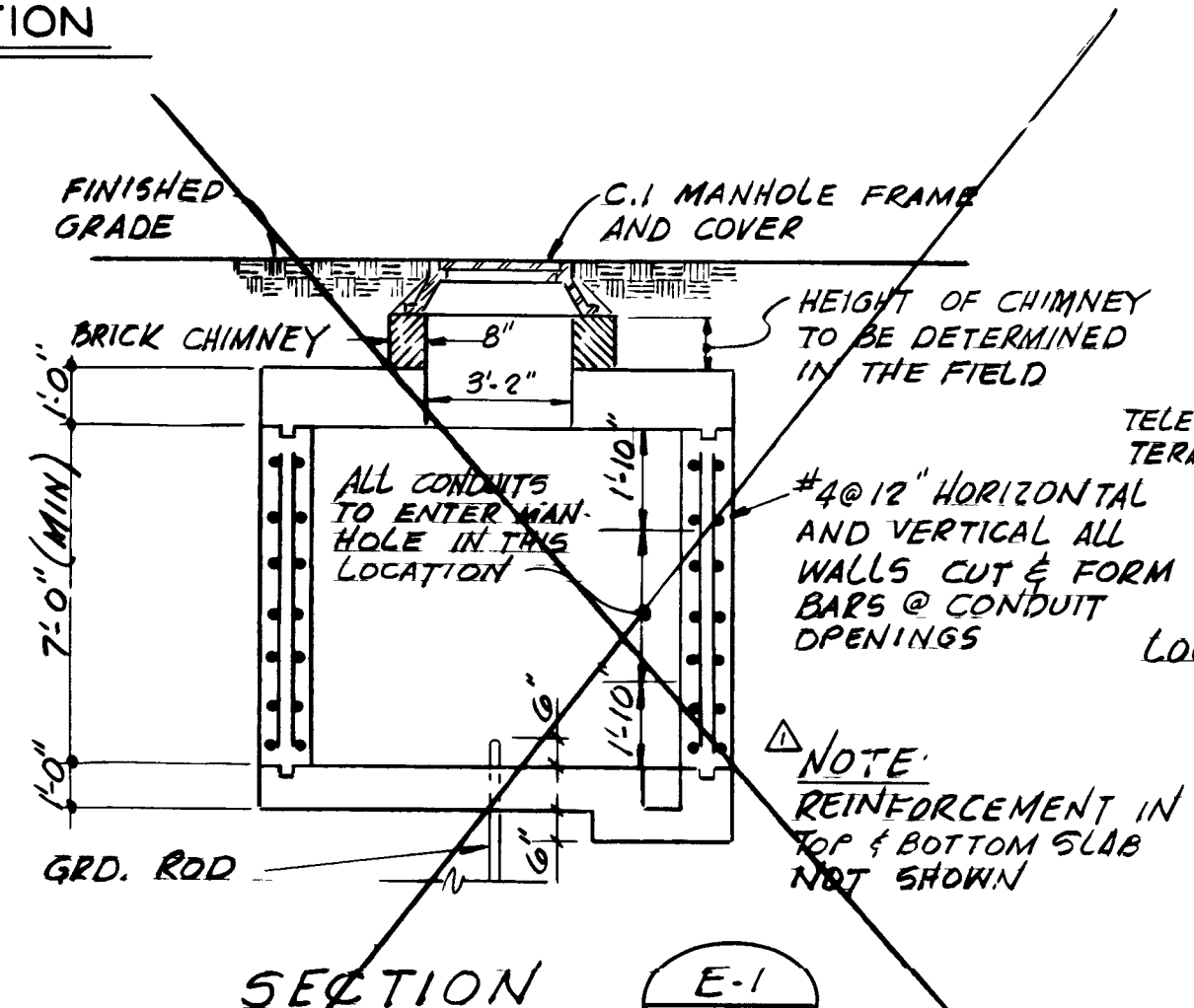
PLOT PLAN
ST. JOHNS BLUFF MASTER PUMPING STATION



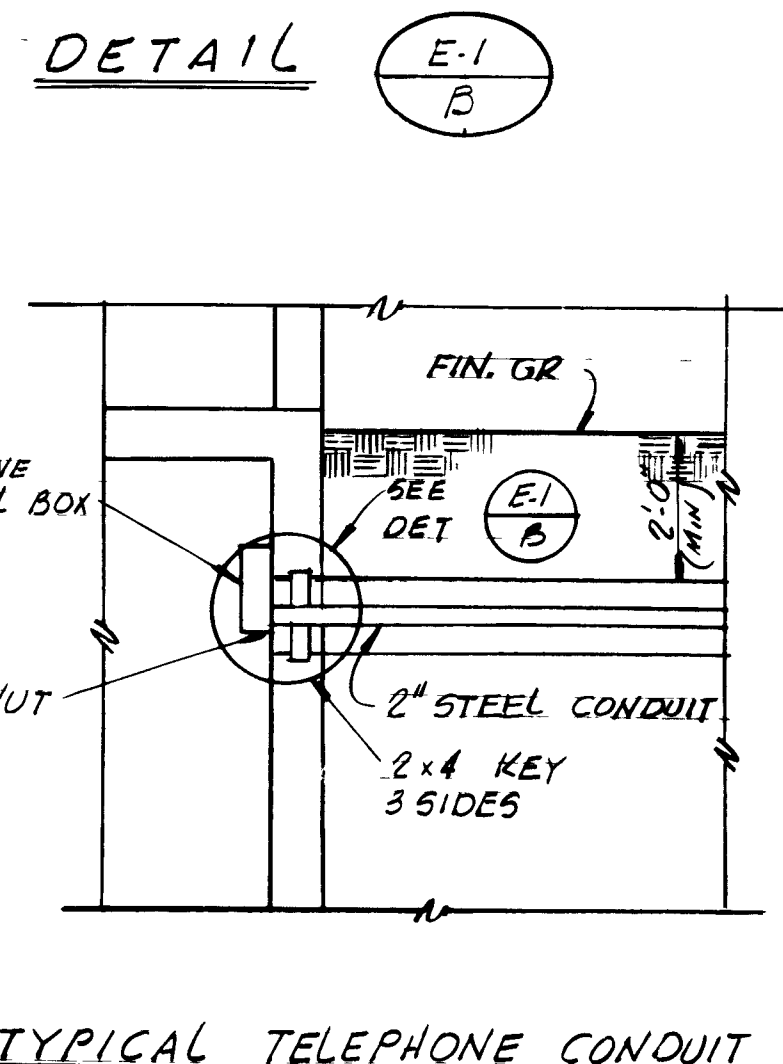
ROOF PLAN



BOTTOM PLAN



SECTION



DETAIL

TYPICAL TELEPHONE CONDUIT ENTRANCE TO BUILDING

TYPICAL PULLBOX MANHOLE DETAILS

NOT USED

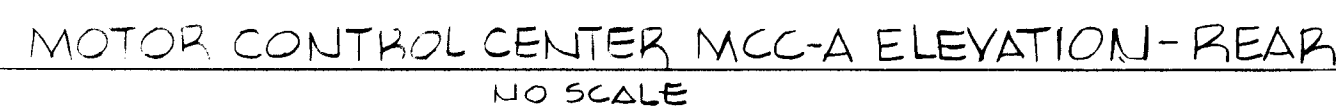
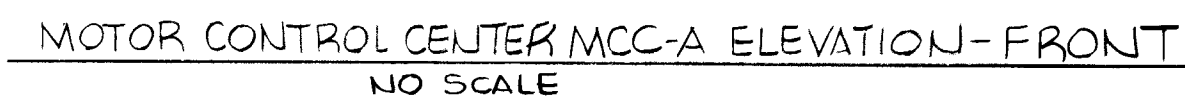
LEGEND

- AA AUTOMATIC ALTERNATOR HEALY - RUFF MODEL 7 AUTO-TROL
- AX AUXILIARY RELAY
- HOA HAND OFF AUTOMATIC SWITCH
- LW LOW LEVEL CUT OFF DEVICE CONTACT IN LIQUID LEVEL CONTROL
- PB START-STOP SWITCH, MOMENTARY CONTACT TYPE
- PBM START-STOP SWITCH, MAINTAINING CONTACT TYPE
- PC PILOT CONTACT DEVICE CONTACT IN LIQUID LEVEL CONTROL
- S SELECTOR SWITCH (MANUAL ALTERNATOR)
- "SO" SAFE OFF SWITCH WITH LOCK OUT LATCH
- SV SOLENOID VALVE
- TS TIME SWITCH
- AC AMPLI SPEED CONTROL UNIT
- A AMMETER
- AS AMMETER SWITCH
- B FREQUENCY METER
- C FLOAT SWITCH
- D ELAPSED TIME INDICATOR (HOURS OF OPERATION)
- E HAND SPEED CONTROL RHEOSTAT
- F SPEED INDICATOR
- G TIME DELAY RELAY ALLEN BRADLEY ADJUSTABLE 0 TO 12 MIN
- H VOLTMETER
- I VOLTMETER SWITCH
- J INDICATING WATT METER
- K INDICATES LIGHTS R=RED (STOP) G=GREEN (RUNNING) B=BLUE (AS NOTED) W=WHITE (AS NOTED)
- L A=AMBER (ALARM)
- M INDICATES ASSOCIATED DEVICE REMOTE FROM CONTROL CENTER (USUALLY AT MOTOR)
- N INDICATES ASSOCIATED DEVICE ON INSTRUMENTATION CONTROL PANEL
- O INDICATES ASSOCIATED DEVICE IN MOTOR CONTROL CENTER
- P PRESSURE SWITCH
- Q SAME AS PBM WITH LOCKING DEVICE
- R SAME AS PB WITH LOCKING DEVICE
- S COMMON ALARM IN INSTRUMENTATION CONTROL PANEL (ANNUNCIATOR)
- T KEY INTERLOCK - MECH & ELECTRICALLY
- U LIMIT SWITCH
- V CIRCUIT BREAKER MOLDED CASE THERMAL MAGNETIC TRIP, UPPER NUMERAL INDICATES FRAME SIZE, LOWER INDICATES TRIP SETTING
- W FULL VOLTAGE, NON-REVERSING MAGNETIC MOTOR STARTER NEMA SIZE INDICATED (PROVIDE STARTERS, C/B, & INDICATOR LIGHTS FOR FUTURE EQUIPMENT)
- X REDUCED VOLTAGE, NON-REVERSING AUTO TRANSFORMER TYPE MOTOR STARTER NEMA SIZE INDICATED
- Y POWER TRANSFORMER
- Z POTENTIAL TRANSFORMER
- 1 CURRENT TRANSFORMER
- 2 MOTOR NUMERAL INDICATES HORSEPOWER
- 3 CONDUIT UP AND DOWN
- 4 CONDUIT RUNS CONCEALED
- 5 CONDUIT RUNS EXPOSED
- 6 CONDUIT TURNING UP OR TOWARD OBSERVER
- 7 CONDUIT TURNING DOWN OR AWAY FROM OBSERVER
- 8 HOME RUNS TO PANEL NUMBER OF ARROWS DENOTES NUMBER OF CIRCUITS
- 9 CROSS MARKS INDICATES NUMBER OF CONDUCTORS NO MARKS INDICATES TWO CONDUCTORS ALL LIGHTING
- 10 CIRCUIT WIRING SHALL BE NO 12 AWG UNLESS OTHERWISE NOTED
- 11 CEILING MOUNTED INCANDESCENT FIXTURES, TYPE "A" CONNECTED TO CIRCUIT 2 AND SWITCH "d"
- 12 CEILING MOUNTED FLOURESCENT FIXTURES
- 13 WALL MOUNTED INCANDESCENT FIXTURES
- 14 WALL RECEPTACLE CONNECTED TO CIRCUIT 8, DUPLEX GROUNDING TYPE UNLESS OTHERWISE NOTED WATERTIGHT
- 15 EXPLOSION PROOF INDICATED BY "X"
- 16 FLOOD LIGHTING FIXTURE
- 17 SINGLE POLE SWITCH, CONTROLS FIXTURES MARKED "a"
- 18 SINGLE POLE SWITCH, WEATHERPROOF CONTROLS FIXTURES MARKED "a"
- 19 SINGLE POLE SWITCH, EXPLOSION PROOF CONTROLS FIXTURES MARKED "a"
- 20 PANEL BOARD 277/480V 3Ø 4W
- 21 PANEL BOARD 120/208V 3Ø 4W
- 22 START STOP SWITCH MOMENTARY CONTACT TYPE
- 23 START STOP SWITCH MAINTAINING CONTACT TYPE
- 24 HANDS OFF AUTOMATIC SELECTOR SWITCH
- 25 SAFE-OFF SWITCH WITH LOCKOUT LATCH
- 26 EMERGENCY STOP SWITCH
- 27 MANUAL MOTOR STARTER
- 28 WIRING CONCEALED IN SLAB OR BELOW GRADE
- 29 AREA FIXTURE REVERE ISLAND LIGHT
- 30 TELEPHONE OUTLET PROVIDE 1" EMPTY CONDUIT FROM EACH OUTLET
- 31 SPECIAL PURPOSE OUTLET
- 32 PRIMARY CABLE AND CONDUIT
- 33 MOTOR DRIVEN HORN
- 34 STREET LIGHT, WESTINGHOUSE "OV-25" WITH BUILT IN FUSED BALLAST 480 VOLT-400 WATT H33-1GL-C1E
- 35 MERCURY LAMP ALL WIRING AS INDICATED ON SHEET E-1
- 36 P60 INDICATES CONDUIT NUMBER - SEE CONDUIT AND CABLE SCHEDULES
- 37 TELEPHONE CONDUIT
- 38 CONDUIT IN DUCT BANK OR BELOW GRADE
- 39 THERMOSTAT - 4"12" - 3/4" C. TO CONTROLLER
- 40 TIME CLOCK

- SM MANUAL MOTOR STARTER
- SML SAME AS SM WITH LOCKOUT
- ☒ COMB MOTOR STARTER
- ⊕ CHECK VALVE
- ⊙ JUNCTION BOX
- ⚠ EM EMERGENCY POWER LOCKOUT CONTACT
- ⚠ SW SEAL WATER FLOW SWITCH CONTACT

REVISIONS PER JEA REQUIREMENTS	DL	F/A	3/79	3/80	1/81	3/81	1/82	1/83	1/84	1/85	1/86	1/87	1/88	1/89	1/90	1/91	1/92	1/93	1/94	1/95	1/96	1/97	1/98	1/99	1/00	1/01	1/02	1/03	1/04	1/05	1/06	1/07	1/08	1/09	1/10	1/11	1/12	1/13	1/14	1/15	1/16	1/17	1/18	1/19	1/20	1/21	1/22	1/23	1/24	1/25	1/26	1/27	1/28	1/29	1/30	1/31	1/32	1/33	1/34	1/35	1/36	1/37	1/38	1/39	1/40	1/41	1/42	1/43	1/44	1/45	1/46	1/47	1/48	1/49	1/50	1/51	1/52	1/53	1/54	1/55	1/56	1/57	1/58	1/59	1/60	1/61	1/62	1/63	1/64	1/65	1/66	1/67	1/68	1/69	1/70	1/71	1/72	1/73	1/74	1/75	1/76	1/77	1/78	1/79	1/80	1/81	1/82	1/83	1/84	1/85	1/86	1/87	1/88	1/89	1/90	1/91	1/92	1/93	1/94	1/95	1/96	1/97	1/98	1/99	1/00	1/01	1/02	1/03	1/04	1/05	1/06	1/07	1/08	1/09	1/10	1/11	1/12	1/13	1/14	1/15	1/16	1/17	1/18	1/19	1/20	1/21	1/22	1/23	1/24	1/25	1/26	1/27	1/28	1/29	1/30	1/31	1/32	1/33	1/34	1/35	1/36	1/37	1/38	1/39	1/40	1/41	1/42	1/43	1/44	1/45	1/46	1/47	1/48	1/49	1/50	1/51	1/52	1/53	1/54	1/55	1/56	1/57	1/58	1/59	1/60	1/61	1/62	1/63	1/64	1/65	1/66	1/67	1/68	1/69	1/70	1/71	1/72	1/73	1/74	1/75	1/76	1/77	1/78	1/79	1/80	1/81	1/82	1/83	1/84	1/85	1/86	1/87	1/88	1/89	1/90	1/91	1/92	1/93	1/94	1/95	1/96	1/97	1/98	1/99	1/00	1/01	1/02	1/03	1/04	1/05	1/06	1/07	1/08	1/09	1/10	1/11	1/12	1/13	1/14	1/15	1/16	1/17	1/18	1/19	1/20	1/21	1/22	1/23	1/24	1/25	1/26	1/27	1/28	1/29	1/30	1/31	1/32	1/33	1/34	1/35	1/36	1/37	1/38	1/39	1/40	1/41	1/42	1/43	1/44	1/45	1/46	1/47	1/48	1/49	1/50	1/51	1/52	1/53	1/54	1/55	1/56	1/57	1/58	1/59	1/60	1/61	1/62	1/63	1/64	1/65	1/66	1/67	1/68	1/69	1/70	1/71	1/72	1/73	1/74	1/75	1/76	1/77	1/78	1/79	1/80	1/81	1/82	1/83	1/84	1/85	1/86	1/87	1/88	1/89	1/90	1/91	1/92	1/93	1/94	1/95	1/96	1/97	1/98	1/99	1/00	1/01	1/02	1/03	1/04	1/05	1/06	1/07	1/08	1/09	1/10	1/11	1/12	1/13	1/14	1/15	1/16	1/17	1/18	1/19	1/20	1/21	1/22	1/23	1/24	1/25	1/26	1/27	1/28	1/29	1/30	1/31	1/32	1/33	1/34	1/35	1/36	1/37	1/38	1/39	1/40	1/41	1/42	1/43	1/44	1/45	1/46	1/47	1/48	1/49	1/50	1/51	1/52	1/53	1/54	1/55	1/56	1/57	1/58	1/59	1/60	1/61	1/62	1/63	1/64	1/65	1/66	1/67	1/68	1/69	1/70	1/71	1/72	1/73	1/74	1/75	1/76	1/77	1/78	1/79	1/80	1/81	1/82	1/83	1/84	1/85	1/86	1/87	1/88	1/89	1/90	1/91	1/92	1/93	1/94	1/95	1/96	1/97	1/98	1/99	1/00	1/01	1/02	1/03	1/04	1/05	1/06	1/07	1/08	1/09	1/10	1/11	1/12	1/13	1/14	1/15	1/16	1/17	1/18	1/19	1/20	1/21	1/22	1/23	1/24	1/25	1/26	1/27	1/28	1/29	1/30	1/31	1/32	1/33	1/34	1/35	1/36	1/37	1/38	1/39	1/40	1/41	1/42	1/43	1/44	1/45	1/46	1/47	1/48	1/49	1/50	1/51	1/52	1/53	1/54	1/55	1/56	1/57	1/58	1/59	1/60	1/61	1/62	1/63	1/64	1/65	1/66	1/67	1/68	1/69	1/70	1/71	1/72	1/73	1/74	1/75	1/76	1/77	1/78	1/79	1/80	1/81	1/82	1/83	1/84	1/85	1/86	1/87	1/88	1/89	1/90	1/91	1/92	1/93	1/94	1/95	1/96	1/97	1/98	1/99	1/00	1/01	1/02	1/03	1/04	1/05	1/06	1/07	1/08	1/09	1/10	1/11	1/12	1/13	1/14	1/15	1/16	1/17	1/18	1/19	1/20	1/21	1/22	1/23	1/24	1/25	1/26	1/27	1/28	1/29	1/30	1/31	1/32	1/33	1/34	1/35	1/36	1/37	1/38	1/39	1/40	1/41	1/42	1/43	1/44	1/45	1/46	1/47	1/48	1/49	1/50	1/51	1/52	1/53	1/54	1/55	1/56	1/57	1/58	1/59	1/60	1/61	1/62	1/63	1/64	1/65	1/66	1/67	1/68	1/69	1/70	1/71	1/72	1/73	1/74	1/75	1/76	1/77	1/78	1/79	1/80	1/81	1/82	1/83	1/84	1/85	1/86	1/87	1/88	1/89	1/90	1/91	1/92	1/93	1/94	1/95	1/96	1/97	1/98	1/99	1/00	1/01	1/02	1/03	1/04	1/05	1/06	1/07	1/08	1/09	1/10	1/11	1/12	1/13	1/14	1/15	1/16	1/17	1/18	1/19	1/20	1/21	1/22	1/23	1/24	1/25	1/26	1/27	1/28	1/29	1/30	1/31	1/32	1/33	1/34	1/35	1/36	1/37	1/38	1/39	1/40	1/41	1/42	1/43	1/44	1/45	1/46	1/47	1/48	1/49	1/50	1/51	1/52	1/53	1/54	1/55	1/56	1/57	1/58	1/59	1/60	1/61	1/62	1/63	1/64	1/65	1/66	1/67	1/68	1/69	1/70	1/71	1/72	1/73	1/74	1/75	1/76	1/77	1/78	1/79	1/80	1/81	1/82	1/83	1/84	1/85	1/86	1/87	1/88	1/89	1/90	1/91	1/92	1/93	1/94	1/95	1/96	1/97	1/98	1/99	1/00	1/01	1/02	1/03	1/04	1/05	1/06	1/07	1/08	1/09	1/10	1/11	1/12	1/13	1/14	1/15	1/16	1/17	1/18	1/19	1/20	1/21	1/22	1/23	1/24	1/25	1/26	1/27	1/28	1/29	1/30	1/31	1/32	1/33	1/34	1/35	1/36	1/37	1/38	1/39	1/40	1/41	1/42	1/43	1/44	1/45	1/46	1/47	1/48	1/49	1/50	1/51	1/52	1/53	1/54	1/55	1/56	1/57	1/58	1/59	1/60	1/61	1/62	1/63	1/64	1/65	1/66	1/67	1/68	1/69	1/70	1/71	1/72	1/73	1/74	1/75	1/76	1/77	1/78	1/79	1/80	1/81	1/82	1/83	1/84	1/85	1/86	1/87	1/88	1/89	1/90	1/91	1/92	1/93	1/94	1/95	1/96	1/97	1/98	1/99	1/00	1/01	1/02	1/03	1/04	1/05	1/06	1/07	1/08	1/09	1/10	1/11	1/12	1/13	1/14	1/15	1/16	1/17	1/18	1/19	1/20	1/21	1/22	1/23	1/24	1/25	1/26	1/27	1/28	1/29	1/30	1/31	1/32	1/33	1/34	1/35	1/36	1/37	1/38	1/39	1/40	1/41	1/42	1/43	1/44	1/45	1/46	1/47	1/48	1/49	1/50	1/51	1/52	1/53	1/54	1/55	1/56	1/57	1/58	1/59	1/60	1/61	1/62	1/63	1/64	1/65	1/66	1/67	1/68	1/69	1/70	1/71	1/72	1/73	1/74	1/75	1/76	1/77	1/78	1/79	1/80	1/81	1/82	1/83	1/84	1/85	1/86	1/87	1/88	1/89	1/90	1/91	1/92	1/93	1/94	1/95	1/96	1/97	1/98	1/99	1/00	1/01	1/02	1/03	1/04	1/05	1/06	1/07	1/08	1/09	1/10	1/11	1/12	1/13	1/14	1/15	1/16	1/17	1/18	1/19	1/20	1/21	1/22	1/23	1/24	1/25	1/26	1/27	1/28	1/29	1/30	1/31	1/32	1/33	1/34	1/35	1/36	1/37	1/38	1/39	1/40	1/41	1/42	1/43	1/44	1/45	1/46	1/47	1/48	1/49	1/50	1/51	1/52	1/53	1/54	1/55	1/56	1/57	1/58	1/59	1/60	1/61	1/62	1/63	1/64	1/65	1/66	1/67	1/68	1/69	1/70	1/71	1/72	1/73	1/74	1/75	1/76	1/77	1/78	1/79	1/80	1/81	1/82	1/83	1/84	1/85	1/86	1/87	1/88	1/89	1/90	1/91	1/92	1/93	1/94	1/95	1/96	1/97	1/98	1/99	1/00	1/01	1/02	1/03	1/04	1/05	1/06	1/07	1/08	1/09	1/10	1/11	1/12	1/13	1/14	1/15	1/16	1/17	1/18	1/19	1/20	1/21	1/22	1/23	1/24	1/25	1/26	1/27	1/28	1/29	1/30	1/31	1/32	1/33	1/34	1/35	1/36	1/37	1/38	1/39	1/40	1/41	1/42	1/43	1/44	1/45	1/46	1/47	1/48	1/49	1/50	1/51	1/52	1/53	1/54	1/55	1/56	1/57	1/58	1/59	1/60	1/61	1/62	1/63	1/64	1/65	1/66	1/67	1/68	1/69	1/70	1/71	1/72	1/73	1/74	1/75	1/76	1/77	1/78	1/79	1/80	1/81	1/82	1/83	1/84	1/85	1/86	1/87	1/88	1/89	1/90	1/91	1/92	1/93	1/94	1/95	1/96	1/97	1/98	1/99	1/00	1/01	1/02	1/03	1/04	1/05	1/06	1/07	1/08	1/09	1/10	1/11	1/12	1/13	1/14	1/15	1/16	1/17	1/18	1/19	1/20	1/21	1/22	1/23	1/24	1/25	1/26	1/27	1/28	1/29	1/30	1/31	1/32	1/33	1/34	1/35	1/36	1/37	1/38	1/39	1/40	1/41	1/42	1/43	1/44	1/45	1/46	1/47	1/48	1/49	1/50	1/51	1/52	1/53	1/54	1/55	1/56	1/57	1/58	1/59	1/60	1/61	1/62	1/63	1/64	1/65	1/66	1/67	1/68	1/69	1/70	1/71	1/72	1/73	1/74	1/75	1/76	1/77	1/78	1/79	1/80	1/81	1/82	1/83	1/84	1/85	1/86	1/87	1/88	1/89	1/90	1/91	1/92	1/93	1/94	1/95	1/96	1/97	1/98	1/99	1/00	1/01	1/02	1/03	1/04	1/05	1/06	1/07	1/08	1/09	1/10	1/11	1/12	1/13	1/14	1/15	1/16	1/17	1/18	1/19	1/20	1/21	1/22	1/23	1/24	1/25	1/26	1/27	1/28	1/29	1/30	1/31	1/32	1/33	1/34	1/35	1/36	1/37	1/38	1/39	1/40	1/41	1/42	1/43	1/44	1/45	1/46	1/47	1/48	1/49	1/50	1/51	1/52	1/53	1/54	1/55	1/56	1/57	1/58	1/59	1/60	1/61	1/62	1/63	1/64	1/65	1/66	1/67	1/68	1/69	1/70	1/71	1/72	1/73	1/74	1/75	1/76	1/77	1/78	1/79	1/80	1/81	1/82	1/83	1/84	1/85	1/86	1/87	1/88	1/89	1/90	1/91	1/92	1/93	1/94	1/95	1/96	1/97	1/98	1/99	1/00	1/01	1/02	1/03	1/04	1/05	1/06	1/07	1/08	1/09	1/10	1/11	1/12	1/13	1/14	1/15	1/16	1/17	1/18	1/19	1/20	1/21	1/22	1/23	1/24	1/25	1/26	1/27	1/28	1/29	1/30	1/31	1/32	1/33	1/34	1/35	1/36	1/37	1/38	1/39	1/40	1/41	1/42	1/43	1/44	1/45	1/46	1/47	1/48	1/49	1/50</
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										SUBMITTED BY: <u>Juan I. English</u>						APPROVED BY:						CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM ST. JOHNS BLUFF MASTER PUMPING STATION								FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT						ELECTRIC SUB-STATION / PLAN ELEVATION SINGLE LINE DIAGRAM					
										REG. ENGR. FLA. NO. <u>6847</u> , DATE <u>9/76</u> FLOOD & ASSOCIATES, INC.						REG. ENGR. FLA. NO. _____ DATE _____ WATER AND SEWER DIVISION														SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT											
										APPROVAL RECOMMENDED BY: <u>Steven E. Sh... u</u>						AUTHORIZED BY: <u>Dave H. ...</u>																									
										REG. ENGR. FLA. NO. <u>18024</u> , DATE <u>3-28-78</u> SVERDRUP & PARCEL AND ASSOCIATES, INC.						REG. ENGR. FLA. NO. <u>DA220</u> , DATE <u>01-31-78</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA														DETAILED BY: <u>M.F.</u> CHECKED BY: <u>BAB</u>						SCALE <u>SHOWN</u> DATE <u>SEPT. 1976</u>					
NO. DESCRIPTION										BY	FIRM	DATE	S&P	DATE	PW	DATE																									
ADDENDUM No 1										DL	FIA	5/78	\$	5/78	J.H.H.	5/78																									
PRE-BID REVISIONS										JB	FPA	1/77	\$	3/79	J.H.H.	3/79																									
REVISIONS										SUBMITTAL						APPROVAL																									



NOTE:
PANELS SHOWN ARE OF
"AS-BUILT" CONDITION

ACCESSORIES:

1. GREEN PILOT LIGHT TO INDICATE "MOTOR OFF"
2. RED PILOT LIGHT TO INDICATE "MOTOR RUNNING".
3. H-O-A SELECTOR SWITCH.

NOTES:

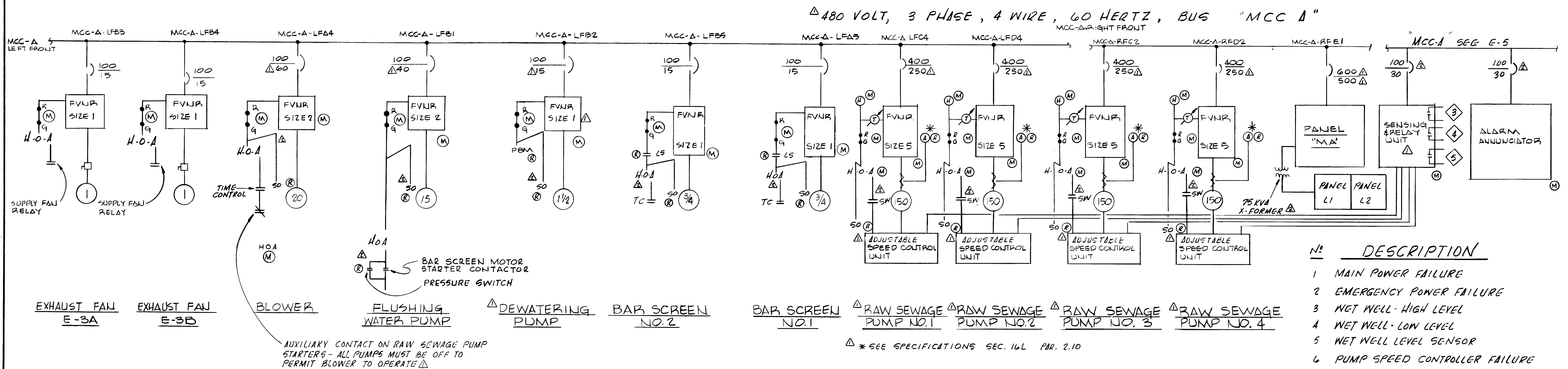
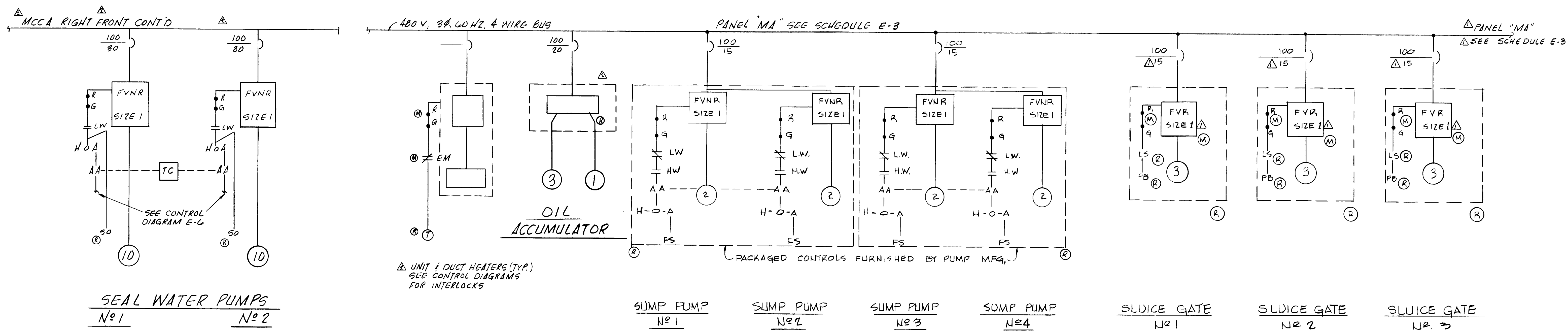
- SEE CONTROL & SINGLE LINE DIAGRAMS FOR ACCESSORIES & WIRING SCHEMES.
- TECLIM OR TECLIM DENOTES MOTOR CMT. PROTECTOR W/ CURRENT LIMITER,
- CONTACTOR MECHANICALLY HELD IN EITHER POSITION,
- TRANSFORMER SIZE SHALL BE PROVIDED BY PUMP SPEED CONTROL UNIT SUPPLIER.

12927

AS BUILT
OCT 1981

(E-3)

										SUBMITTED BY: <u>[Signature]</u> REG. ENGR. FLA. NO. <u>6847</u> DATE <u>1-17-77</u> FLOOD & ASSOCIATES, INC.										APPROVED BY: _____ REG. ENGR. FLA. NO. _____ DATE _____ WATER AND SEWER DIVISION AUTHORIZED BY: <u>[Signature]</u> DATE <u>1-19-77</u> REG. ENGR. FLA. NO. <u>94370</u> DATE <u>1-23-77</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										CITY OF JACKSONVILLE, FLORIDA										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT										MOTOR CONTROL CENTER SCHEDULE-MCC-A ELEVATIONS & PANELBOARD SCHEDULE									
ADDENDUM No. 1 PRE-BID REVISIONS										DL FEA 3/78 5/78 JHB JB FEA 1-17-77 3/78 JHB										APPROVAL RECOMMENDED BY: <u>[Signature]</u> REG. ENGR. FLA. NO. <u>10221</u> DATE <u>3-29-78</u> SEVERDRUP & PARCEL AND ASSOCIATES, INC.										SEWERAGE IMPROVEMENT PROGRAM ST. JOHNS BLUFF MASTER PUMPING STATION										SVERDRUP & PARCEL AND ASSOCIATES, Inc. — GENERAL CONSULTANT																			
NO. DESCRIPTION										BY FIRM DATE S&P DATE PW DATE										REG. ENGR. FLA. NO. DATE										SCALE NO SCALE DATE JAN 1977										CONTR. NO. <u>JS-40-7</u> PROJ. NO. <u>7316</u> SHEET NO. <u>33</u> OF <u>42</u>																			
REVISIONS										SUBMITTAL APPROVAL										OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										CHECKED BY: _____																													



- | <u>Nº</u> | <u>DESCRIPTION</u> |
|-----------|-------------------------------|
| 1 | MAIN POWER FAILURE |
| 2 | EMERGENCY POWER FAILURE |
| 3 | WET WELL - HIGH LEVEL |
| 4 | WET WELL - LOW LEVEL |
| 5 | WET WELL LEVEL SENSOR |
| 6 | PUMP SPEED CONTROLLER FAILURE |
| 7 | BAR SCREEN SHEAR PIN |
| 8 | SEAL WATER FLOW SWITCH |
| 9 | CHECK VALVE LIMIT SWITCH |
| 10 | WET WELL SUPPLY FAN |
| 11 | WET WELL EXHAUST FAN |
| 12 | SPARE |

12928

AS BUILT

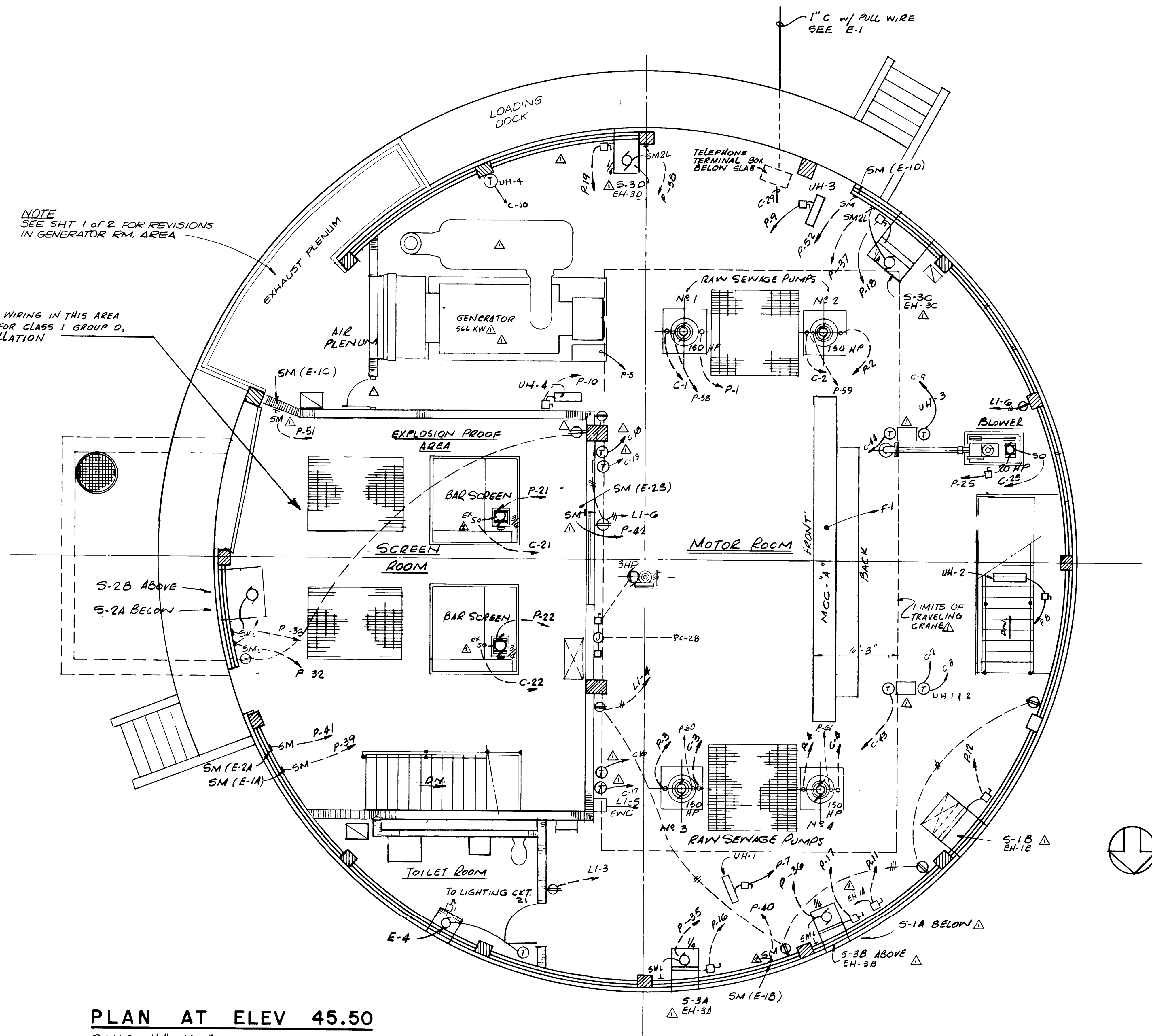
OCT. 1980

E-4

										SUBMITTED BY: <u>[Signature]</u> REG. ENGR. FLA. NO. <u>6874</u> DATE <u>1/77</u> FLOOD & ASSOCIATES, INC. APPROVAL RECOMMENDED BY: <u>[Signature]</u> REG. ENGR. FLA. NO. <u>12822</u> DATE <u>2-22-78</u> SVERDRUP & PARCEL AND ASSOCIATES, INC.										APPROVED BY: _____ REG. ENGR. FLA. NO. _____ DATE _____ WATER AND SEWER DIVISION AUTHORIZED BY: <u>[Signature]</u> REG. ENGR. FLA. NO. <u>12822</u> DATE <u>3/30/78</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM ST. JOHN'S BLUFF MASTER PUMPING STATION										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT SVERDRUP & PARCEL AND ASSOCIATES, INC. -- GENERAL CONSULTANT SCALE NO. SCALE DATE JAN. 1977 DETAILED BY: SBD CHECKED BY: RVT										MOTOR CONTROL CENTER "A" SINGLE LINE DIAGRAMS CONTR. NO. JS-40 7 PROJ. NO. 7316 SHEET NO. 34 OF 42									
ADDENDUM No 1										DL FA 5/78 3/78 JAH 3/81																																																	
PPE-BID REVISIONS										SE 4A 7/77 3/78 JAH 3/81																																																	
NO. DESCRIPTION										BY FIRM DATE S&P DATE PW DATE																																																	
REVISIONS										SUBMITTAL APPROVAL																																																	

NOTE
ALL EQUIPMENT AND WIRING IN THIS AREA
SHALL BE SUITABLE FOR CLASS I GROUP D,
DIVISION I INSTALLATION

NOTE
SEE SHT 1 OF 2 FOR REVISIONS
IN GENERATOR RM. AREA



PLAN AT ELEV 45.50

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

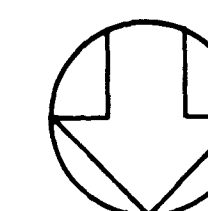
12931

AS BUILT

OCT. 1981

E-7

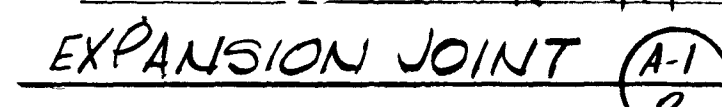
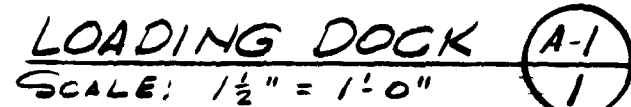
SUBMITTED BY <i>James S. Taylor</i>				APPROVED BY _____				CITY OF JACKSONVILLE, FLORIDA				FLOOD & ASSOCIATES, INC.				ELECTRICAL / PLAN AT ELEV. 45 50			
REG ENGR FLA NO. 6847 DATE 9/76				REG ENGR FLA NO. _____ DATE _____				SEWERAGE IMPROVEMENT PROGRAM				DESIGN CONSULTANT							
FLOOD & ASSOCIATES, INC.				WATER AND SEWER DIVISION				ST JOHNS BLUFF				SVERDRUP & PARCEL AND ASSOCIATES, INC. — GENERAL CONSULTANT				CONTR NO JS 407			
APPROVAL				AUTHORIZED BY <i>[Signature]</i>				OFFICE OF DIRECTOR OF PUBLIC WORKS				DETAILED BY C D				SCALE AS SHOWN			
RECOMMENDED BY <i>[Signature]</i>				REG ENGR FLA NO. 4270 DATE 12/76				CITY OF JACKSONVILLE, FLORIDA				CHECKED BY B A B				DATE SEPT 1976			
REG ENGR FLA NO. 14822 DATE 3-28-78				SVERDRUP & PARCEL AND ASSOCIATES, INC.												PROJ NO 7316			
NO				BY FIRM DATE S&P DATE PW DATE												SHEET NO 37 OF 42			
REVISIONS				SUBMITTAL APPROVAL															



12933

(E-9)

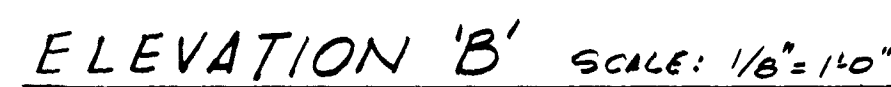
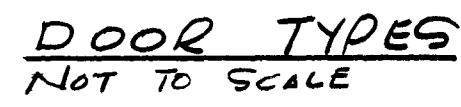
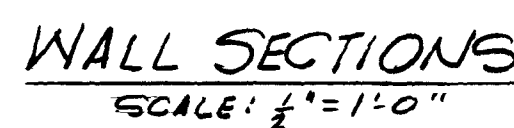
										SUBMITTED BY <u>James S. English</u> REG ENGR FLA NO. <u>6847</u> DATE <u>9/76</u> FLOOD & ASSOCIATES INC.		APPROVED BY _____ REG ENGR FLA NO. _____ DATE _____ WATER AND SEWER DIVISION		CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM ST JOHNS BLUFF MASTER PUMPING STATION		FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT				ELECTRICAL / PLAN AT ELEV 22.89			
										APPROVAL RECOMMENDED BY <u>James S. English</u> REG ENGR FLA NO. <u>10220</u> DATE <u>3/28/78</u> SVERDRUP & PARCEL AND ASSOCIATES INC.		AUTHORIZED BY <u>James S. English</u> REG ENGR FLA NO. <u>10220</u> DATE <u>3/28/78</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA				SVERDRUP & PARCEL AND ASSOCIATES, INC. -- GENERAL CONSULTANT							
NO DESCRIPTION BY FIRM DATE S&P DATE PW DATE																DETAILED BY <u>C D</u> SCALE <u>AS SHOWN</u> DATE <u>SEPT 1976</u>		CONTR NO. <u>J9 40 7</u>		PROJ NO. <u>7316</u>		SHEET NO. <u>39</u> OF <u>42</u>	
REVISIONS										SUBMITTAL		APPROVAL		CHECKED BY <u>B A B</u>									



DOOR SCHEDULE

NOTE: EXTERIOR DOORS, FRAMES & LOUVERS ONLY BRONZE ANODIZED ALUM.

ABBREVIATION LEGEND			
ALUM.	ALUMINUM	TEXT.	TEXTURED
CONC.	CONCRETE	PNL	PANEL
CMU	CONCRETE MASONRY UNIT	WOW	WINDOW
R.L	RAIN LEADER	MH	MANHOLE
RD	ROOF DRAIN	CT	CERAMIC TILE



12935

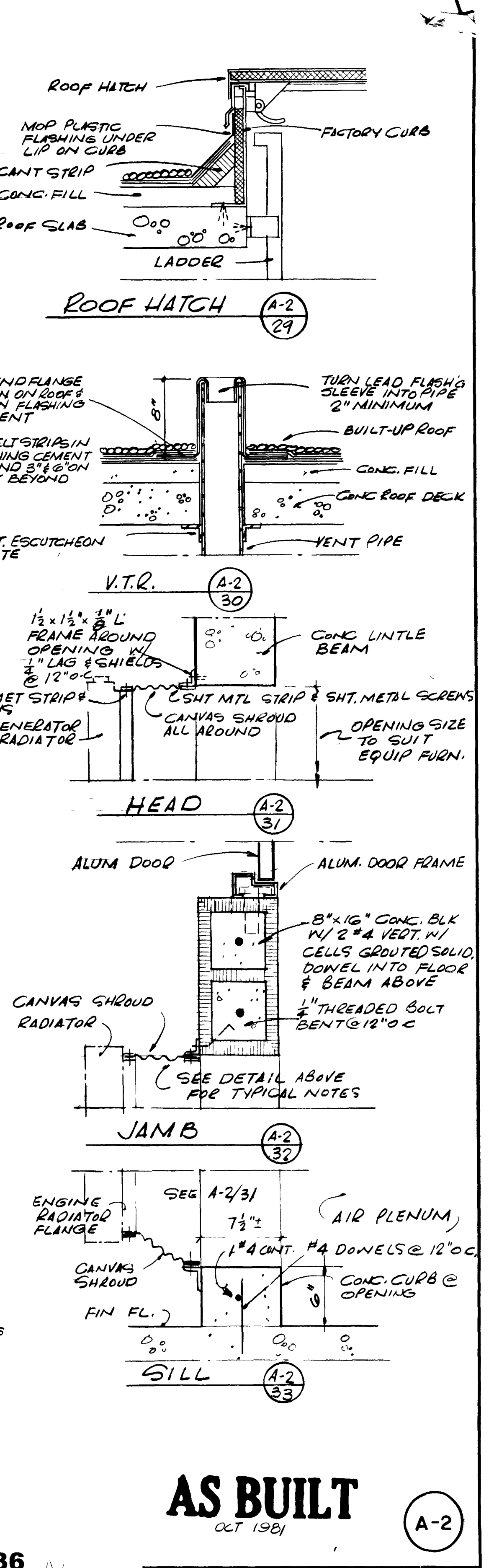
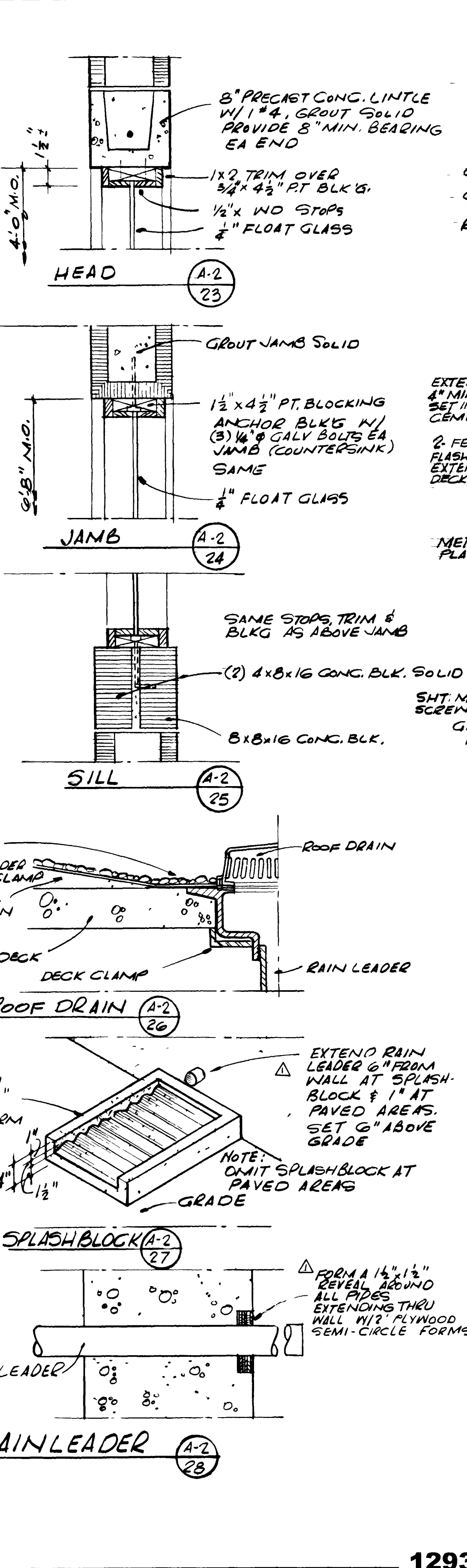
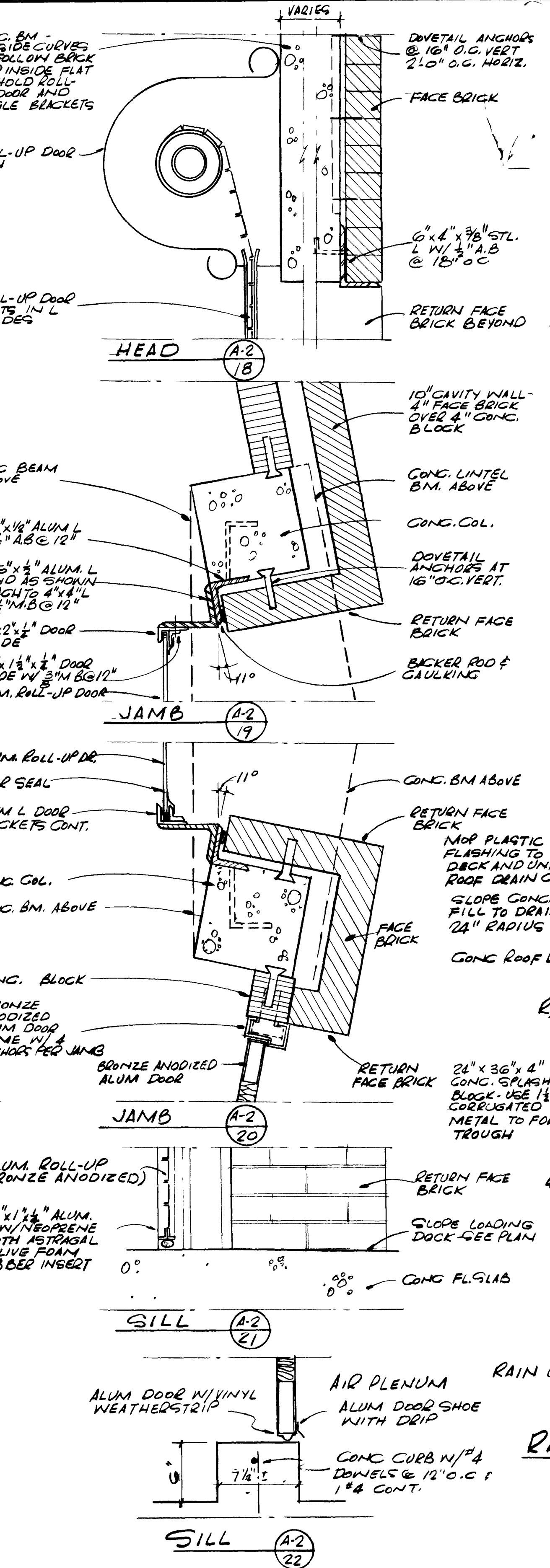
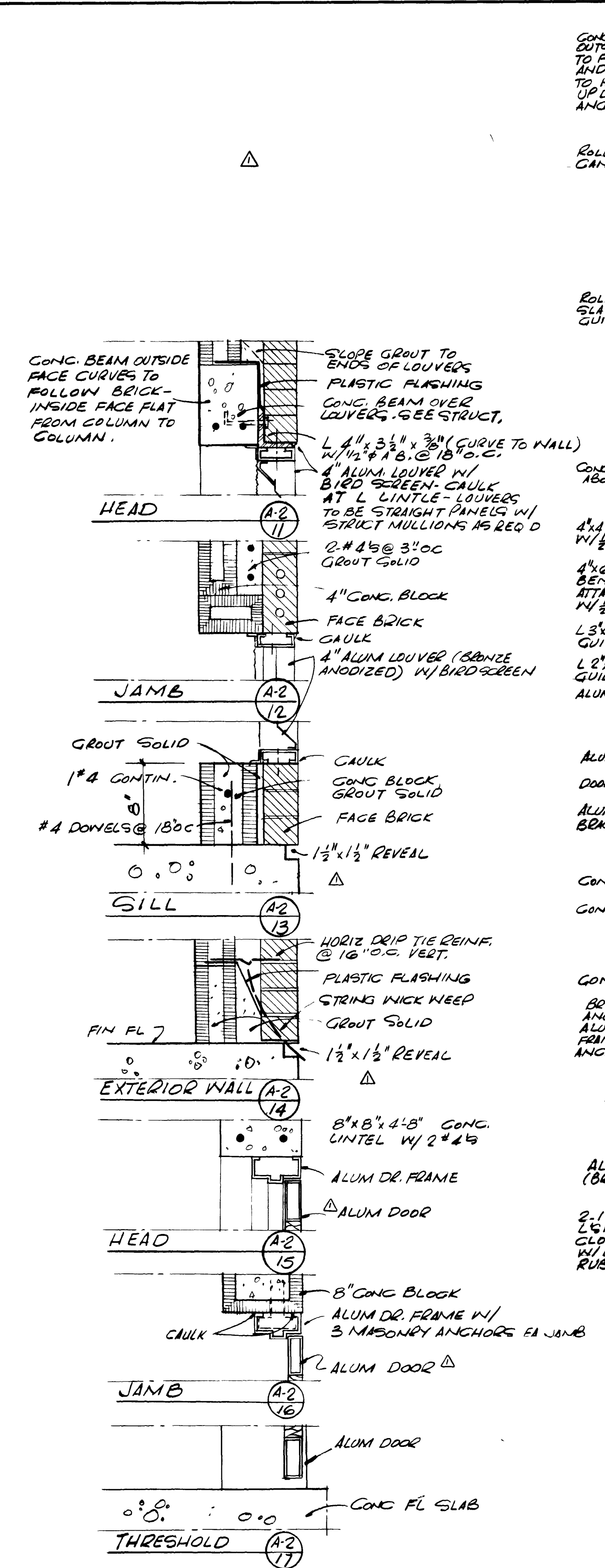
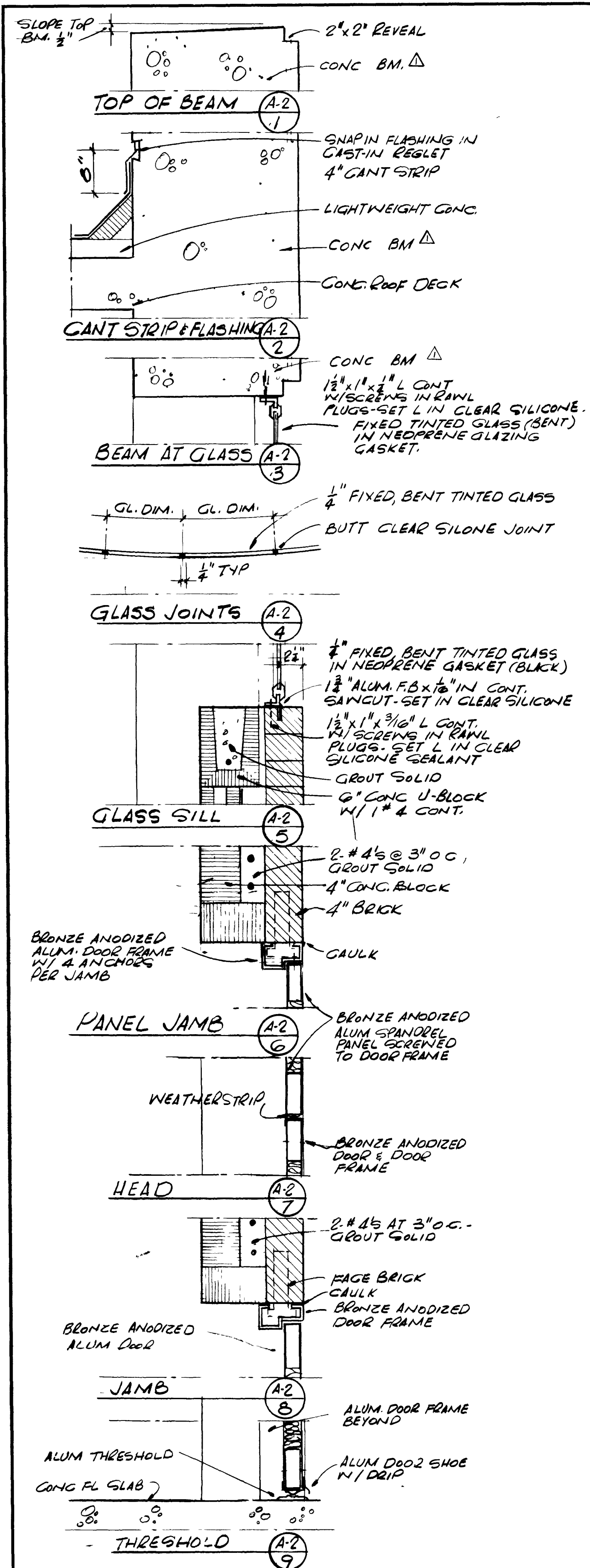
(A-1)

SUBMITTED BY James J. English
REG ENGR FLA NO 6847 DATE 9/76
FLOOD & ASSOCIATES INC
APPROVAL
RECOMMENDED BY James J. English
REG ENGR FLA NO 14824 DATE 3 28 7
SVERDRUP & PARCEL AND ASSOCIATES, Inc

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
ST JOHNS BLUFF
MASTER PUMPING STATION

PLAN, ELEVATIONS & SECTIONS

CONTR NO <u>JS 40 7</u>	PROJ NO <u>7316</u>	SHEET NO <u>41</u> OF <u>42</u>
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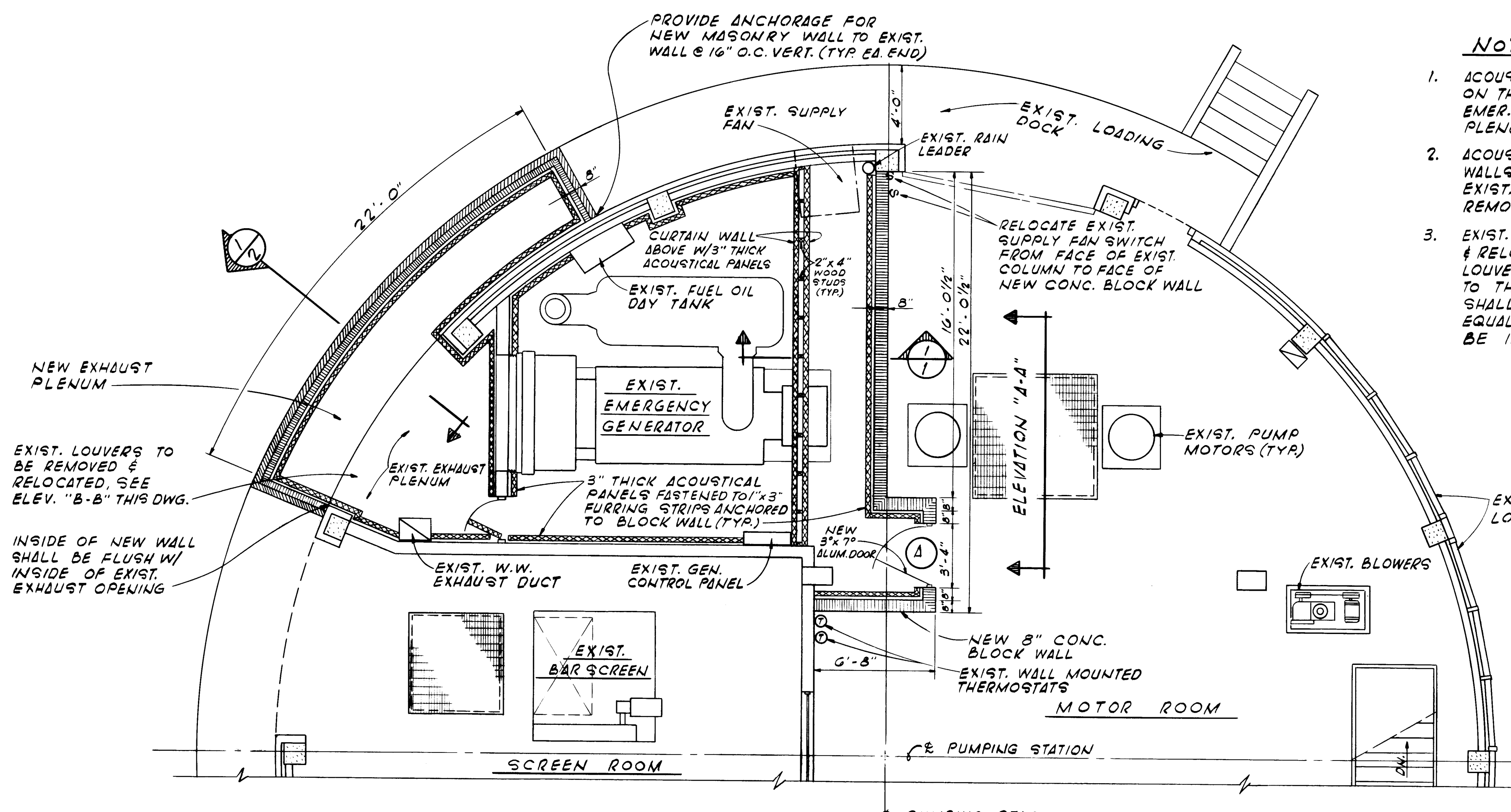
CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
ST JOHNS BLUFF
MASTER PUMPING STATION

SUBMITTED BY REG ENGR. F.A. NO. 6847 DATE 9/76 FLOOD & ASSOCIATES, INC.		APPROVED BY REG ENGR. F.A. NO. DATE WATER AND SEWER DIVISION	
AUTHORIZED BY REG ENGR. F.A. NO. 14220 DATE 3/28/78 OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA		SVERDRUP & PARCEL AND ASSOCIATES, INC.	

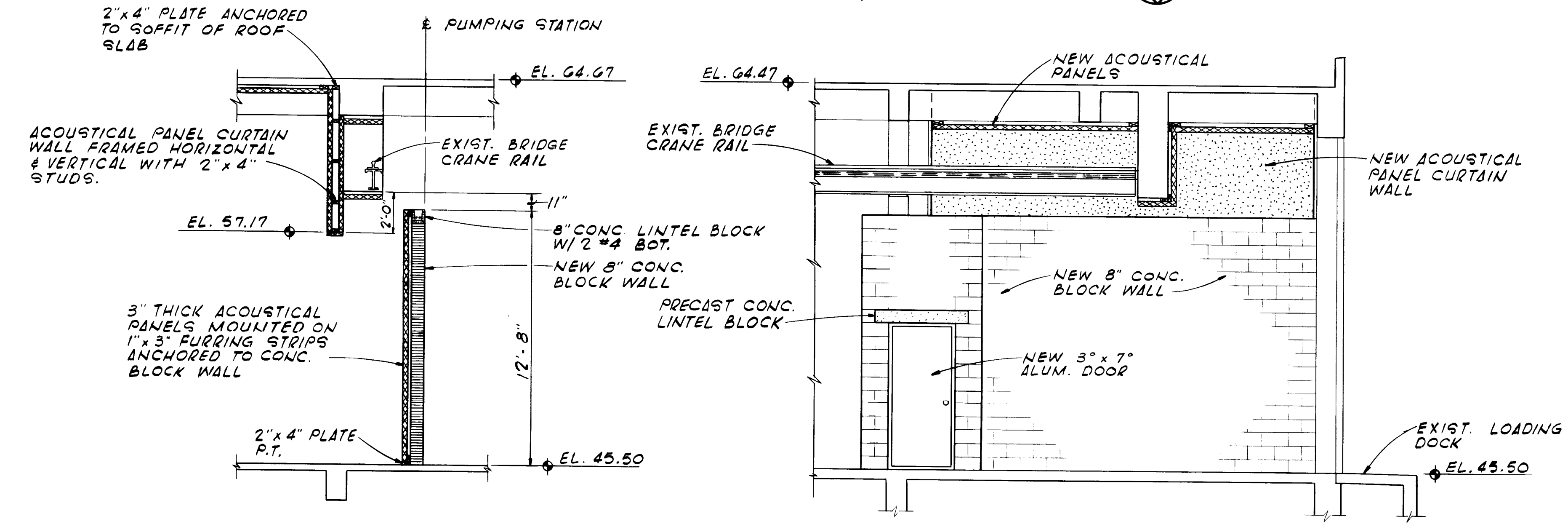
FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT		SVERDRUP & PARCEL AND ASSOCIATES, INC. -- GENERAL CONSULTANT	
DETAILED BY JAB	SCALE AS SHOWN	DATE SEPT 1976	
CHECKED BY BAB			
CONTR. NO. JS 407	PROJ. NO. 7316	SHEET NO. 42 OF 42	

AS BUILT
OCT 1981

A-2

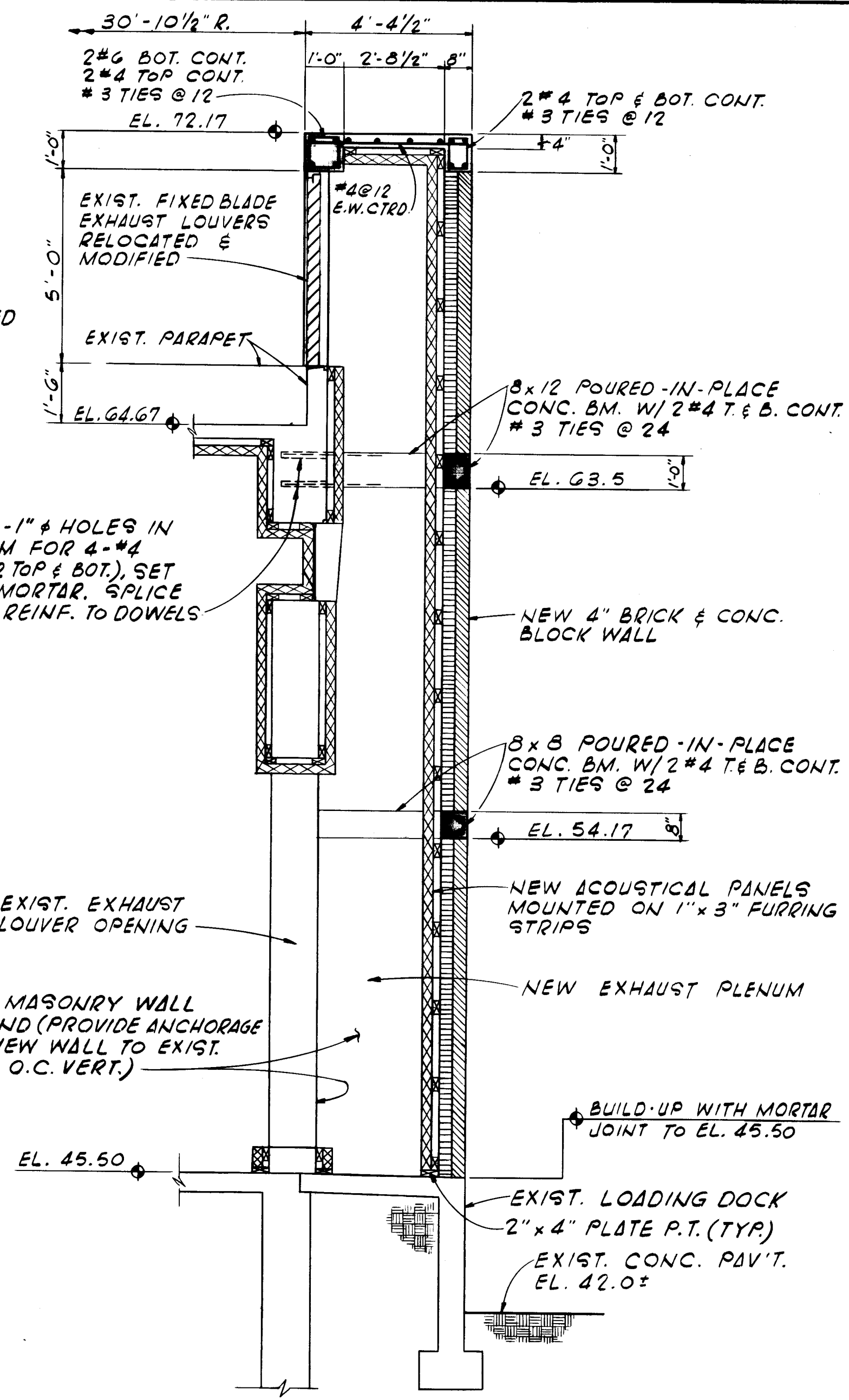


PARTIAL GROUND FLOOR PLAN
SCALE: 1/4" = 1'-0"



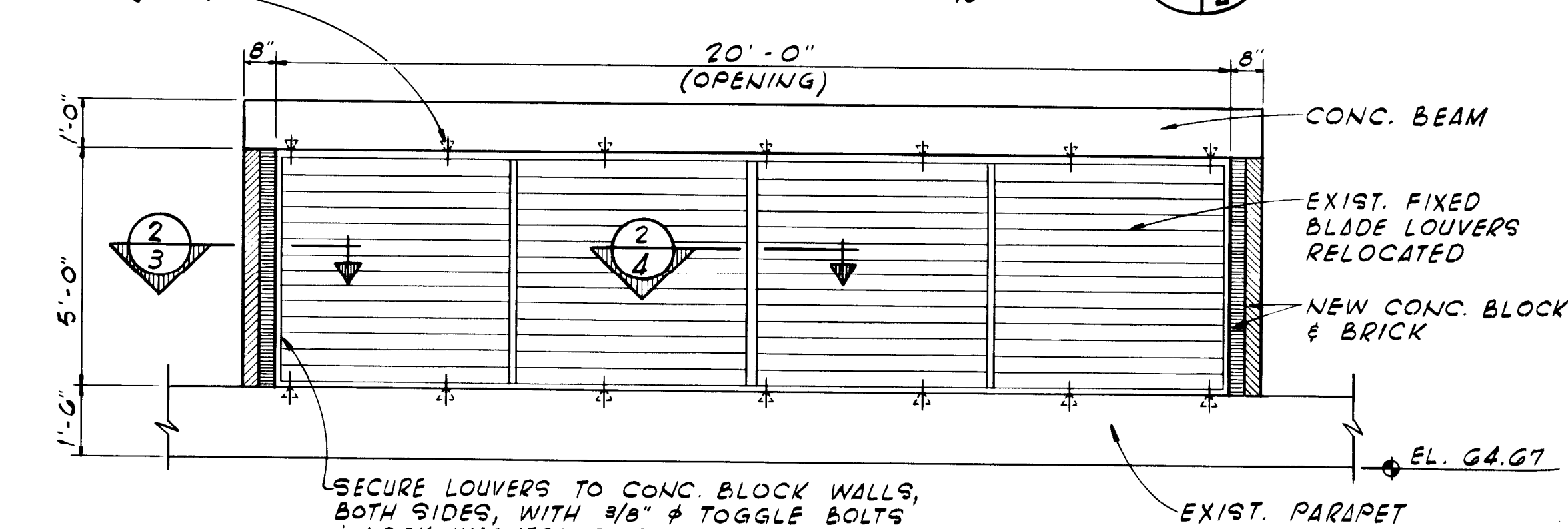
ELEVATION "A-A"
SCALE: 1/4" = 1'-0"

- NOTES:**
1. ACOUSTICAL PANELS SHALL BE INSTALLED ON THE SOFFIT OF THE ROOF SLAB IN THE EMER. GENERATOR ROOM, EXIST. EXHAUST PLENUM & NEW EXHAUST PLENUM.
 2. ACOUSTICAL PANELS SHALL BE AFFIXED TO THE WALLS OF THE EMER. GENERATOR ROOM AROUND EXIST. WALL MOUNTED EQUIPMENT WITHOUT REMOVING OR RELOCATING EXIST. EQUIPMENT
 3. EXIST. FIXED BLADE EXHAUST LOUVERS SHALL BE REMOVED & RELOCATED AS SHOWN. THE EXIST. GRAVITY LOUVERS SHALL BE REMOVED & TURNED OVER TO THE OWNER. THE FIXED BLADE LOUVERS SHALL BE FIELD CUT VERTICALLY IN TWO EQUAL SECTIONS. THE TWO SECTIONS SHALL BE INSTALLED AS DETAILED.



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

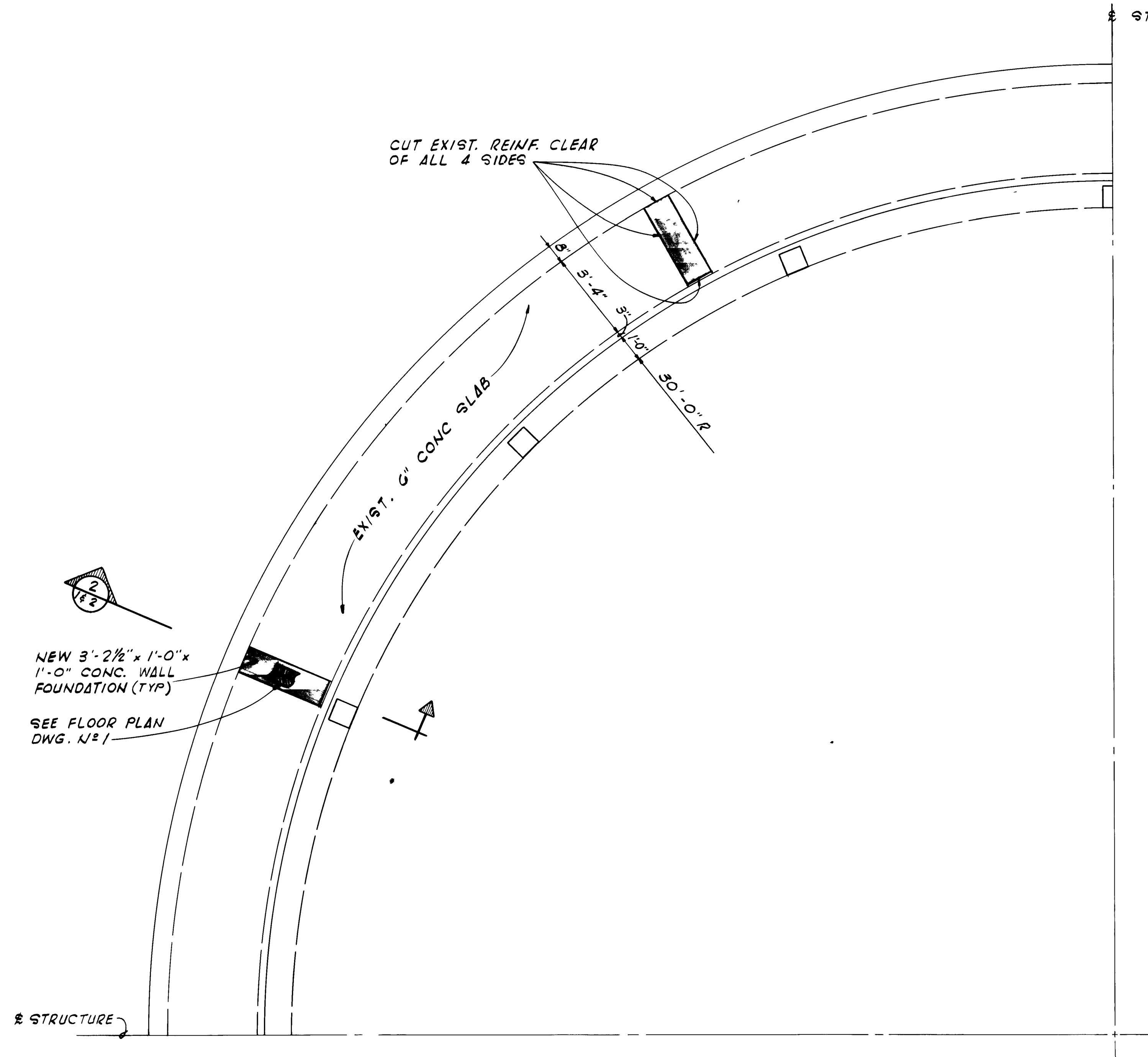
FASTEN RELOCATED LOUVERS TO NEW CONC. BEAM & EXIST. PARAPET WITH CONC. INSERTS 3/8" Ø H.H. BOLTS & LOCK WASHERS (TYP.)



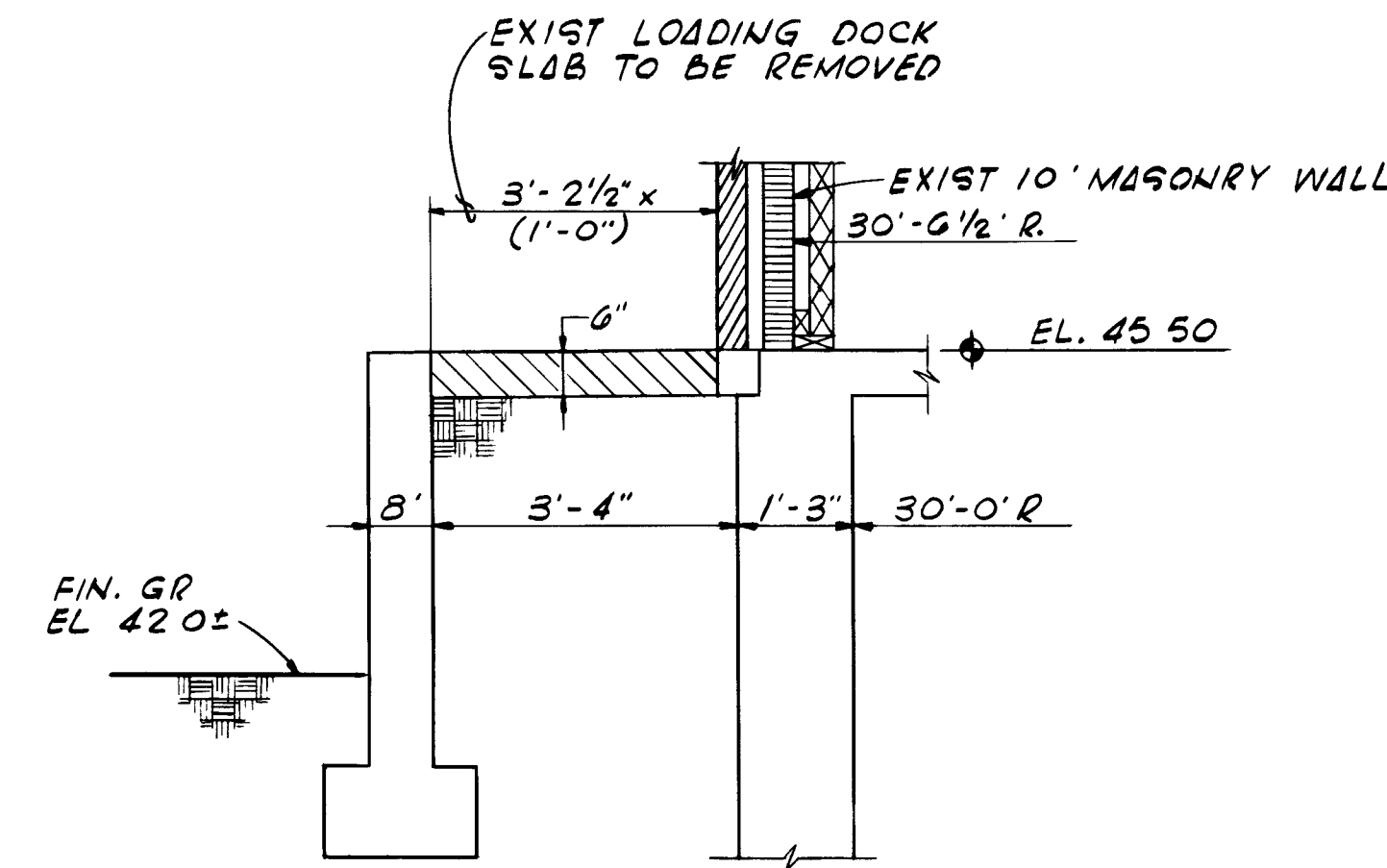
ELEVATION "B-B"
SCALE: 3/8" = 1'-0"

AS BUILT
OCT, 1981

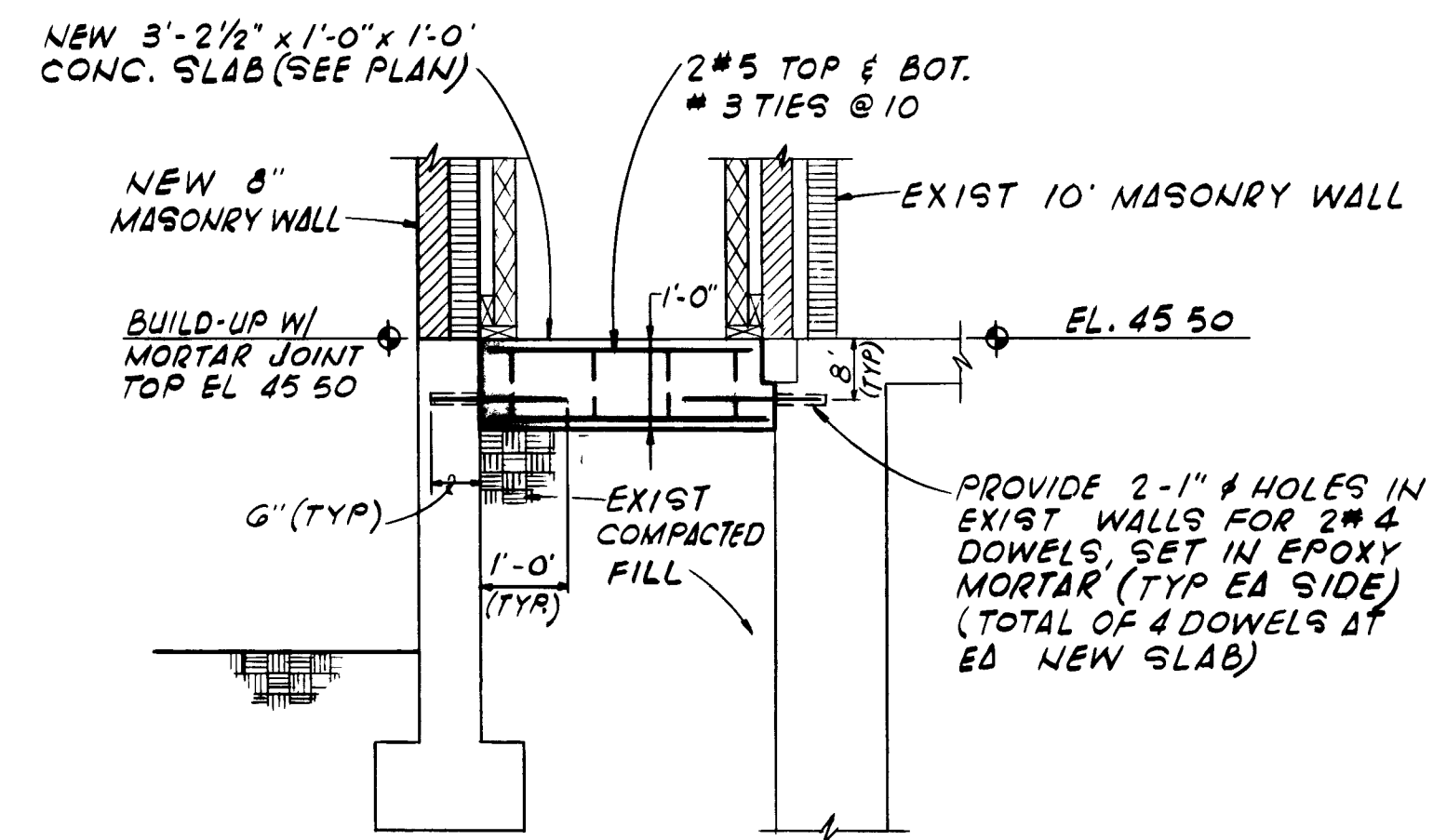
										SUBMITTED BY: <u>James W. Anderson</u> REG. ENGR. FLA. NO. <u>5954</u> DATE <u>8/80</u> FLOOD & ASSOCIATES, INC.										APPROVED BY: _____ REG. ENGR. FLA. NO. _____ DATE _____ WATER AND SEWER DIVISION AUTHORIZED BY: _____ REG. ENGR. FLA. NO. <u>4220</u> DATE <u>8/66</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM ARLINGTON EAST DISTRICT ST. JOHNS BLUFF MASTER PUMPING STATION										FLOOD & ASSOCIATES, INC. 12937 DESIGN CONSULTANT										PARTIAL GROUND FLOOR PLAN, SECTIONS AND ELEVATIONS																																							
NO. _____ DESCRIPTION _____										BY _____ FIRM _____ DATE _____ DATE _____ PW _____ DATE _____																																																																															
REVISIONS _____										SUBMITTAL _____ APPROVAL _____																																																																															



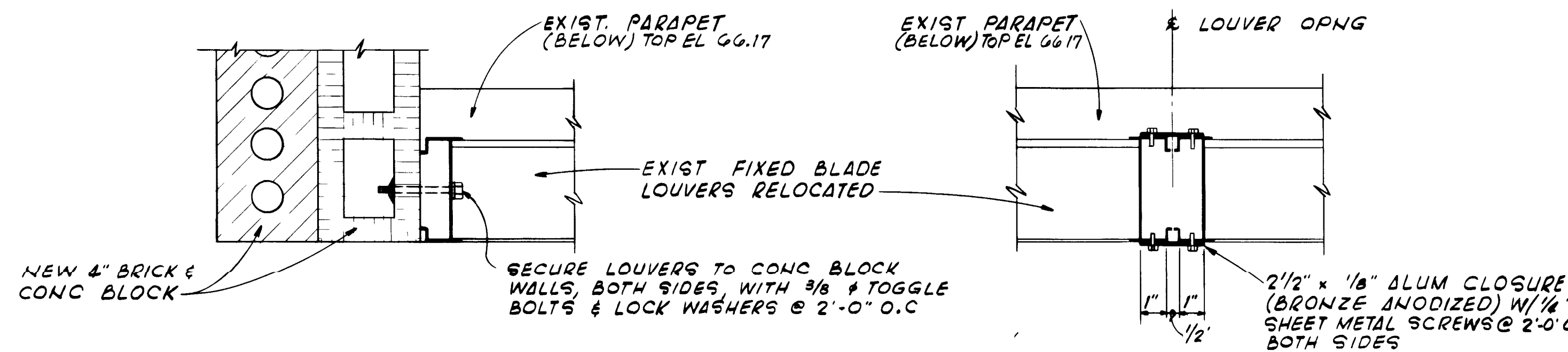
PARTIAL PLAN SECTION
SCALE: 3/8" = 1'-0"



EXIST. SECTION
SCALE: 1/2" = 1'-0"



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



JAMB
SCALE: 3" = 1'-0"

MULLION
SCALE: 3" = 1'-0"

AS BUILT OCT. 1981

NO	DESCRIPTION	BY	FIRM	DATE	DATE	PW	DATE
	REVISIONS						

SUBMITTED BY	<i>James M. Douthett</i>
REG. ENGR. FLA. NO.	5964
DATE	8/80
FLOOD & ASSOCIATES INC.	

APPROVED BY	
REG. ENGR. FLA. NO.	
DATE	
WATER AND SEWER DIVISION	
AUTHORIZED BY	
REG. ENGR. FLA. NO.	9276
DATE	8/80
OFFICE OF DIRECTOR OF PUBLIC WORKS	
CITY OF JACKSONVILLE, FLORIDA	

CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
ARLINGTON EAST DISTRICT
ST JOHN BLUFF MASTER PUMPING STATION

FLOOD & ASSOCIATES, INC.	12938
DESIGN CONSULTANT	
DETAILED BY	K.H.
SCALE	AS SHOWN
DATE	AUGUST, 1980
CHECKED BY	J.P.V.

CONTR. NO.	JS 4071
PROJ. NO.	7316-3
SHEET NO.	2 OF 2