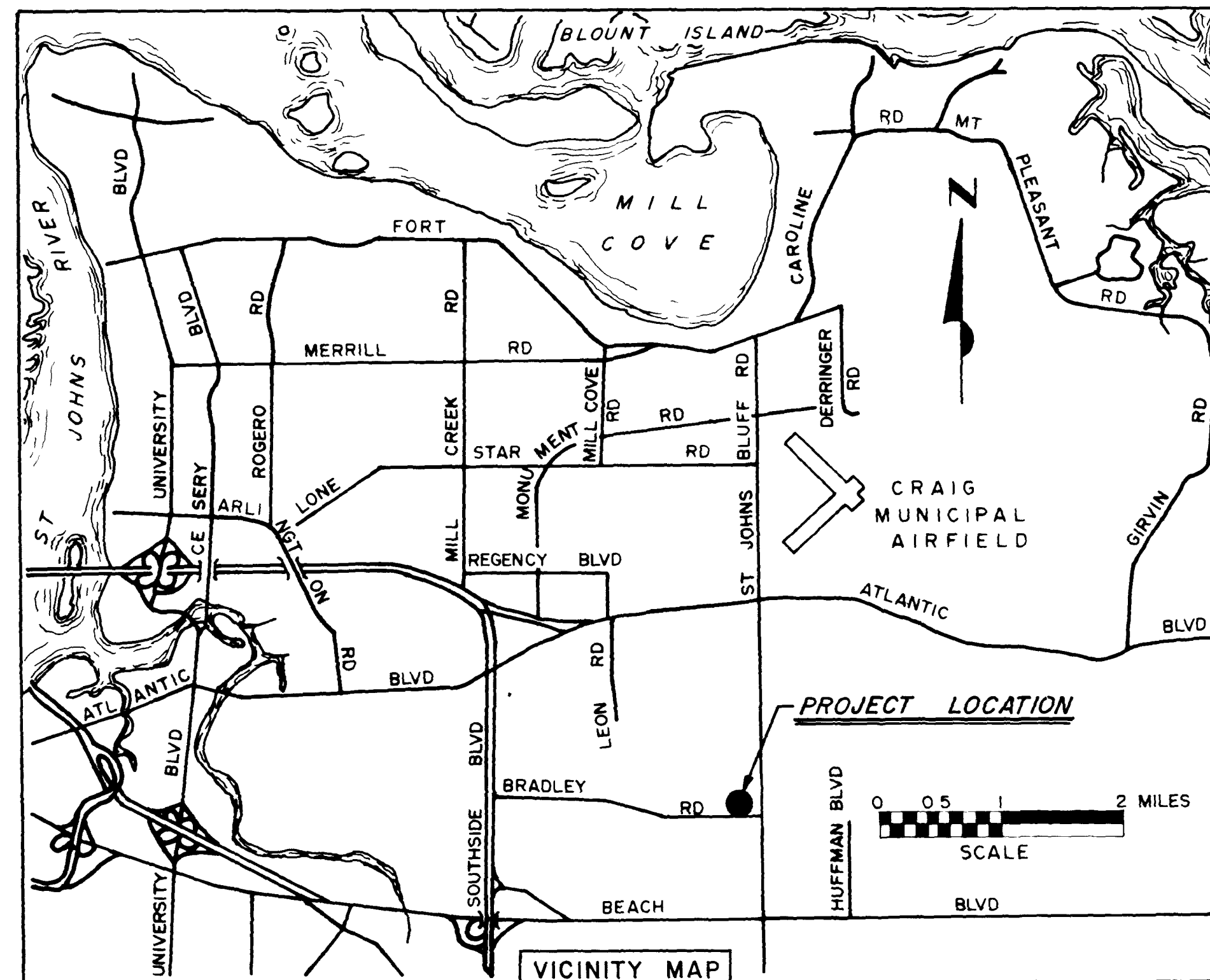


**CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
PHASE 3**

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

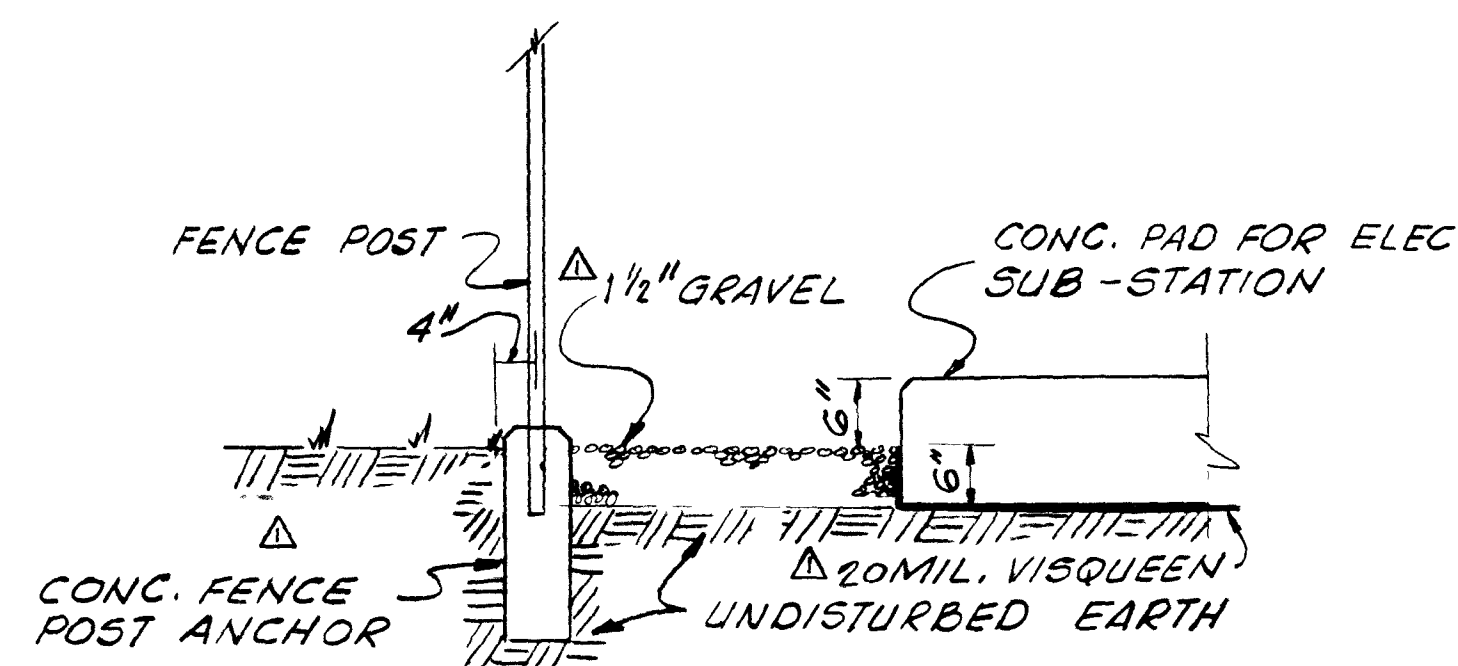
SVERDRUP & PARCEL AND ASSOCIATES, INC.
GENERAL CONSULTANT JACKSONVILLE, FLORIDA

ENVIRONMENTAL PROTECTION AGENCY NO. C120541010 - PART A

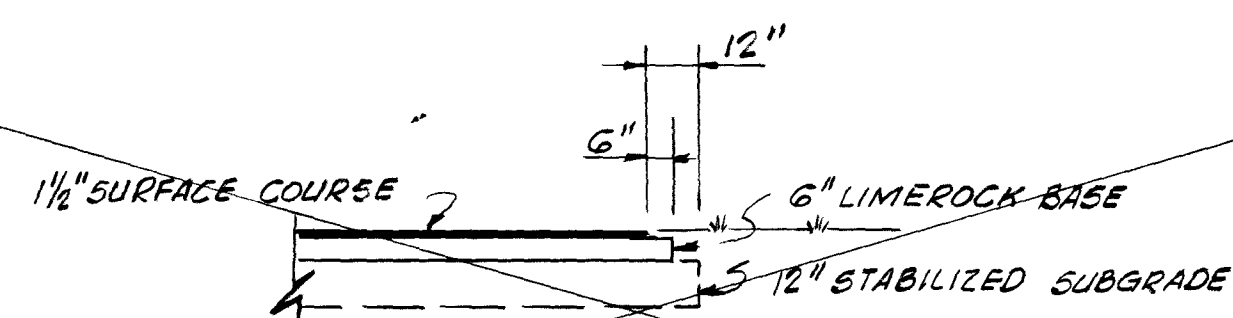
AS BUILT
OCT. 1981

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

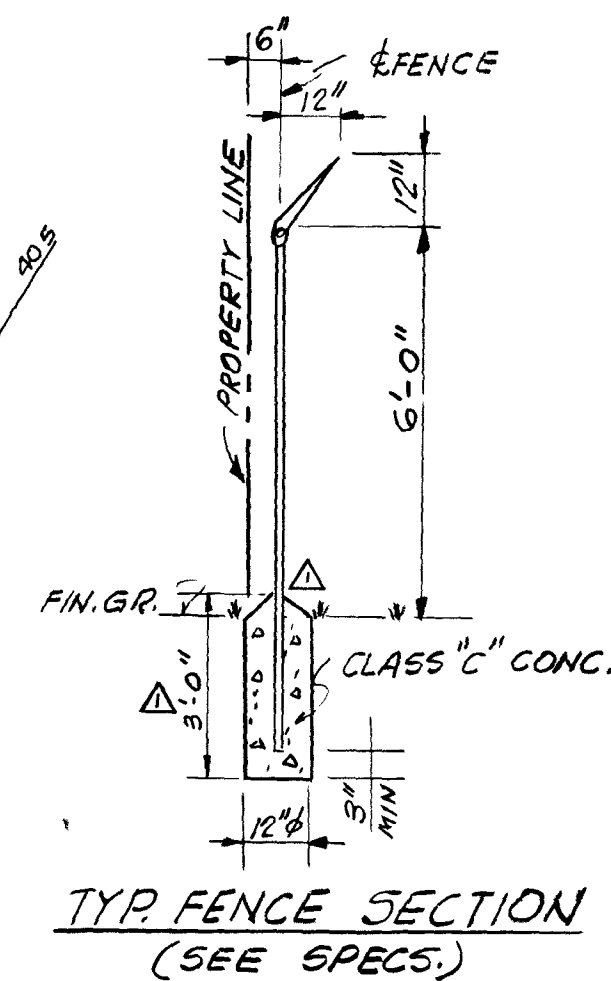
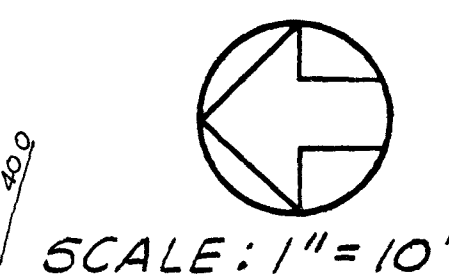
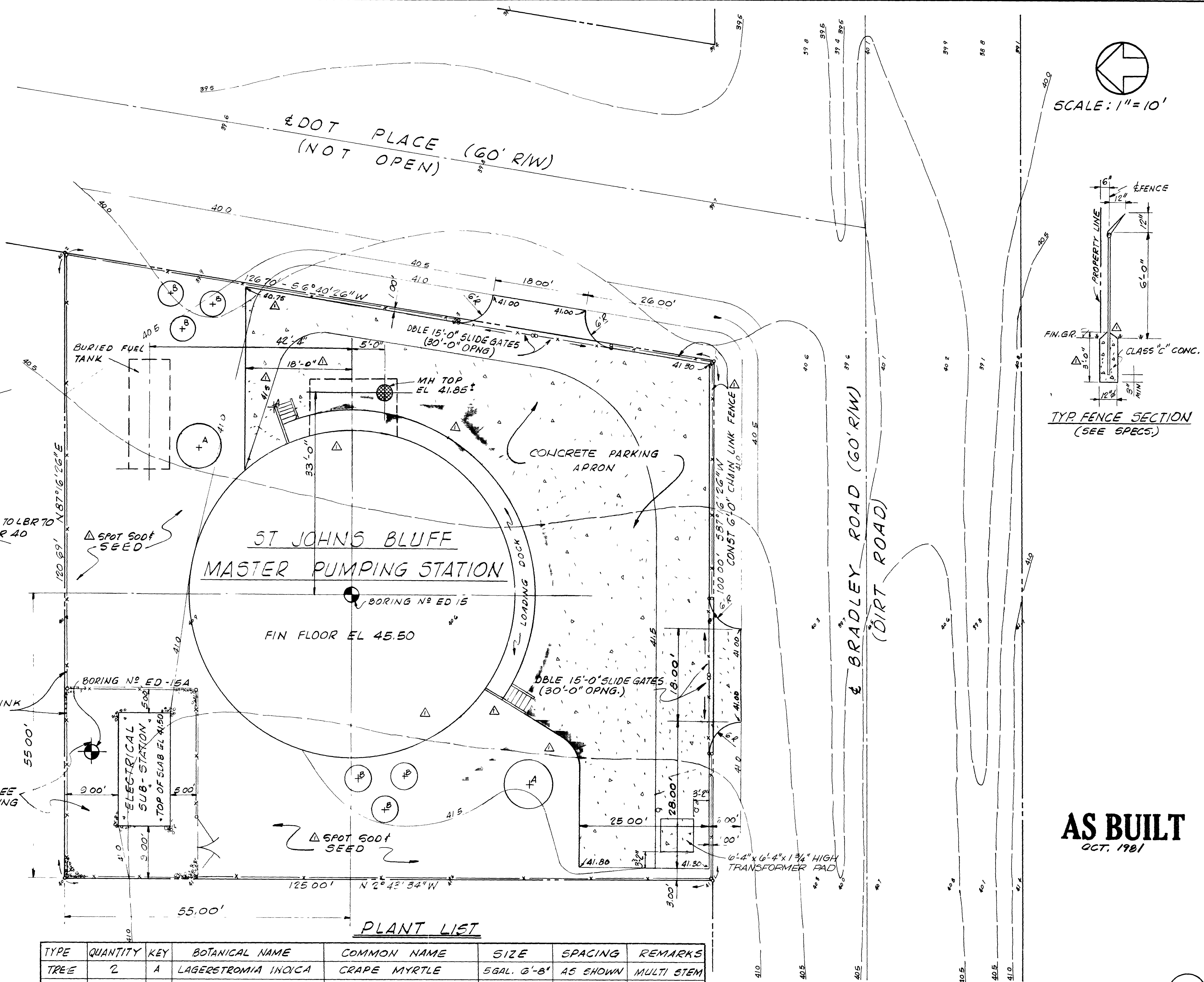
40.5	EXISTING CONTOURS
40.5	NEW CONTOURS
40.5	EXISTING SPOT ELEVATIONS
42.20	NEW SPOT ELEVATIONS
□	NEW CONC PAVING
XXXX	NEW ASPHALT PAVING

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 **JRH**
CHECKED BY **RVT**

SCALE **AS SHOWN**

DATE **SEPT 1978**

12897

SITE PLAN

CONTR NO **JS-407**

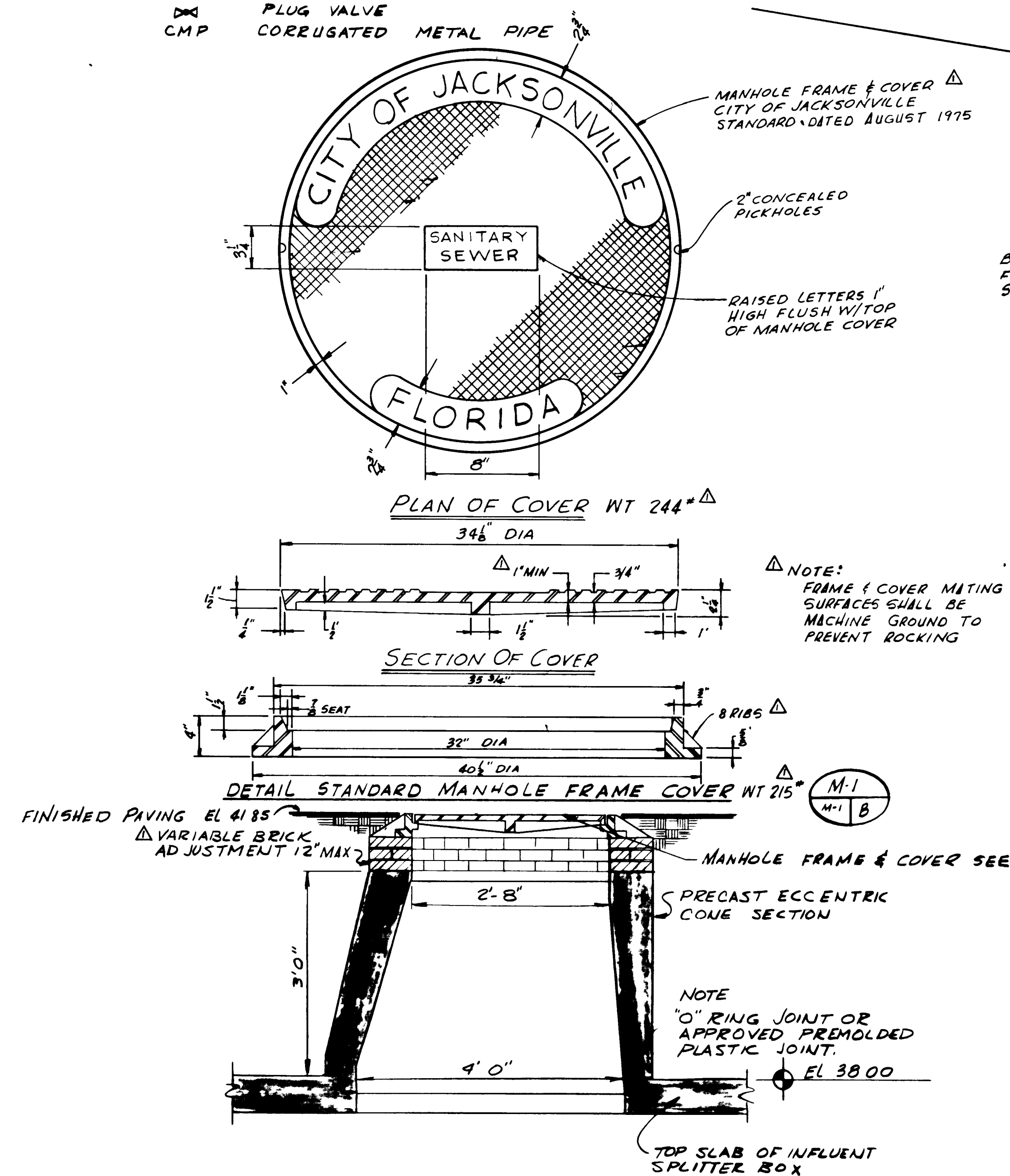
PROJ NO **7316**

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

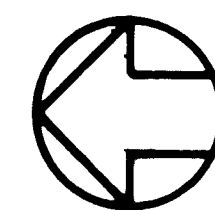
G-1

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



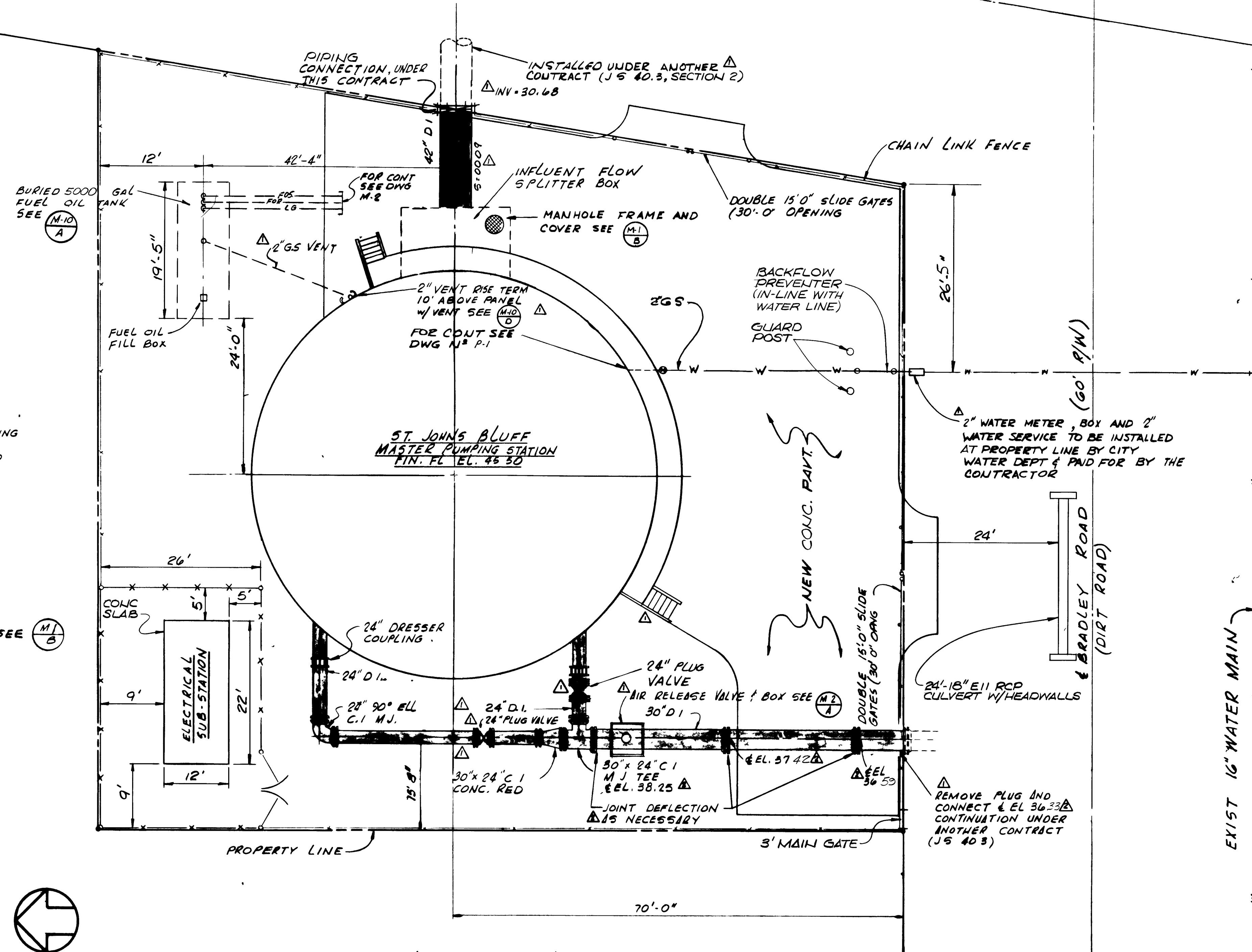
PRECAST MANHOLE CONE SECTION
NOT TO SCALE



MECHANICAL SITE PLAN

SCALE: 1" = 10'

€ DOT PLACE (60' R/W)



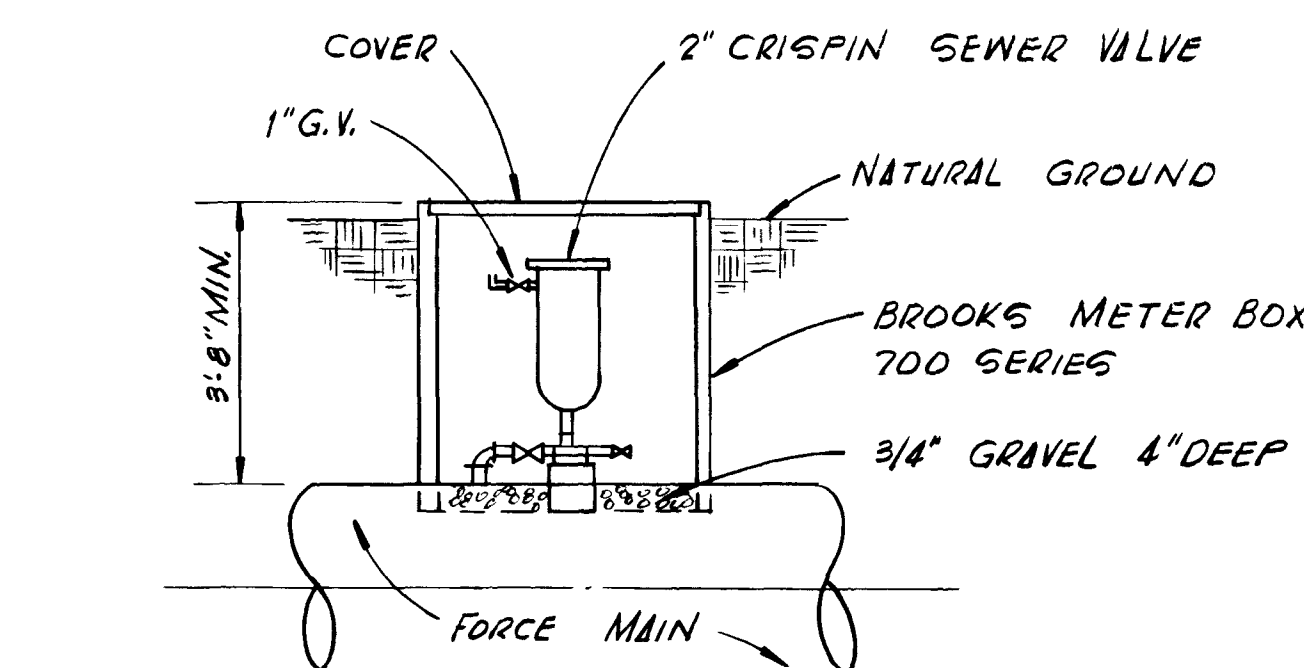
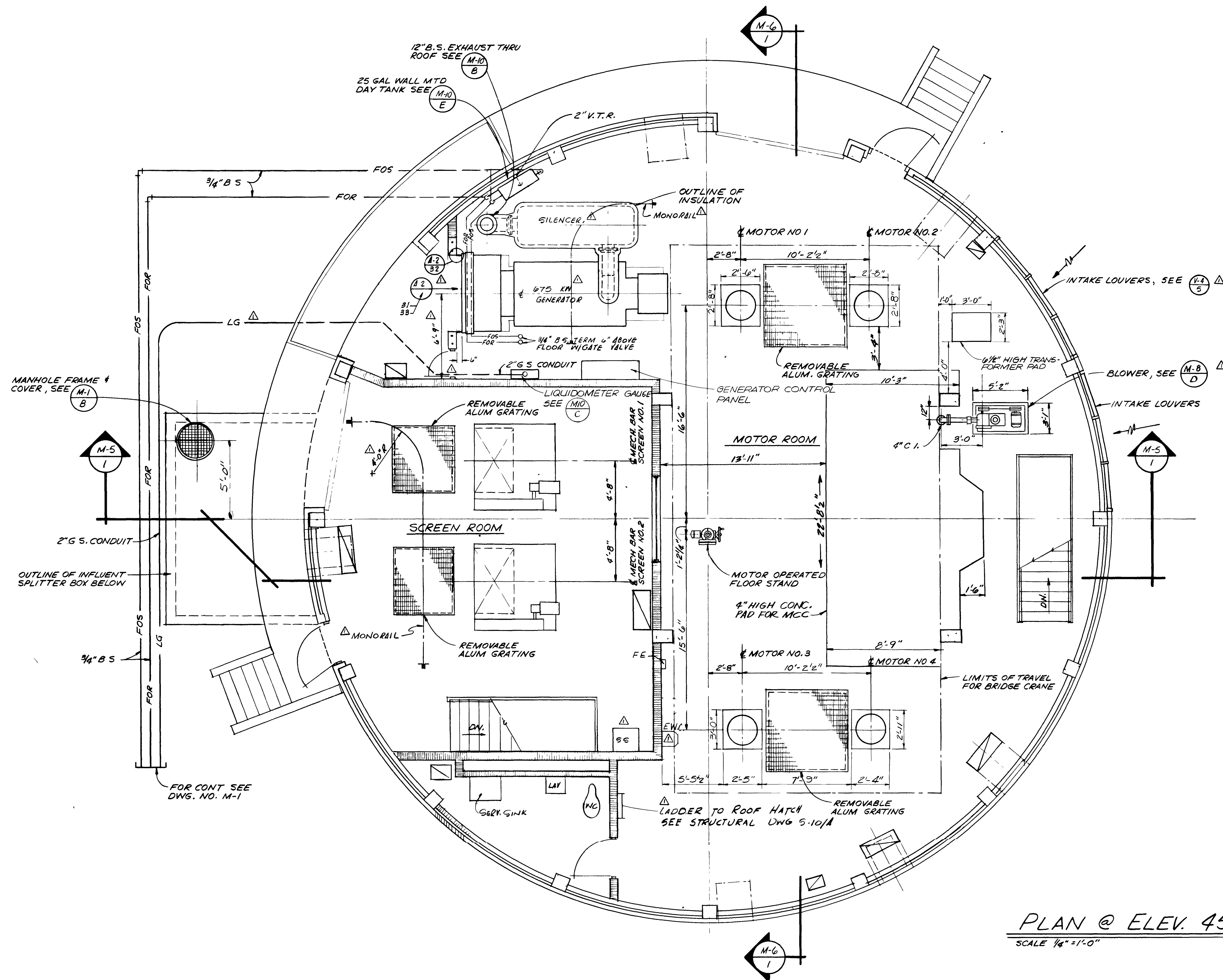
EXIST 16" WATER MAIN -

12898

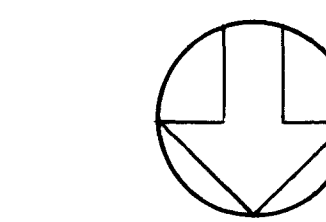
AS BUILT
OCT. 1981

(M-

										SUBMITTED BY <u>James R. Saylor</u>										APPROVED BY _____										CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM ST JOHNS BLUFF MASTER PUMPING STATION										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT										MECHANICAL SITE PLAN																			
REVISIONS										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																													
PRE BID REVISION										APPROVAL RECOMMENDED BY <u>James R. Saylor</u>										AUTHORIZED BY <u>James R. Saylor</u>										SVERDRUP & PARCEL AND ASSOCIATES, INC.										DETAILED BY <u>S&P</u>										SCALE <u>SHOWN</u>										DATE <u>SEPT 1976</u>									
NO DESCRIPTION										REG ENGR FLA NO <u>1122</u> DATE <u>3-22-78</u> SVERDRUP & PARCEL AND ASSOCIATES INC										REG ENGR FLA NO <u>4570</u> DATE <u>3-22-78</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE FLORIDA																				CONTR NO <u>J8-40 7</u>										PROJ. NO <u>9316</u>										SHEET NO <u>4</u> OF <u>42</u>									
BY FIRM DATE S&P DATE PW DATE										SUBMITTAL APPROVAL																																																											
FWS FIA 9/77																																																																					
JB FIA 9/77																																																																					



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



AS BUILT
OCT, 1981

12899

M-2

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		AUTHORIZED BY <i>John H. H. H.</i>	
RECOMMENDED BY <i>John H. H. H.</i>		REG ENGR. FLA NO. 14,624 DATE 3-22-78	
BY FIRM DATE S&P DATE PW DATE		OFFICE OF DIRECTOR OF PUBLIC WORKS	
SUBMITTAL APPROVAL		CITY OF JACKSONVILLE, FLORIDA	
PRE BID REVISION		SVERDRUP & PARCEL AND ASSOCIATES, INC.	
NO DESCRIPTION			
REVISIONS			

CITY OF JACKSONVILLE, FLORIDA

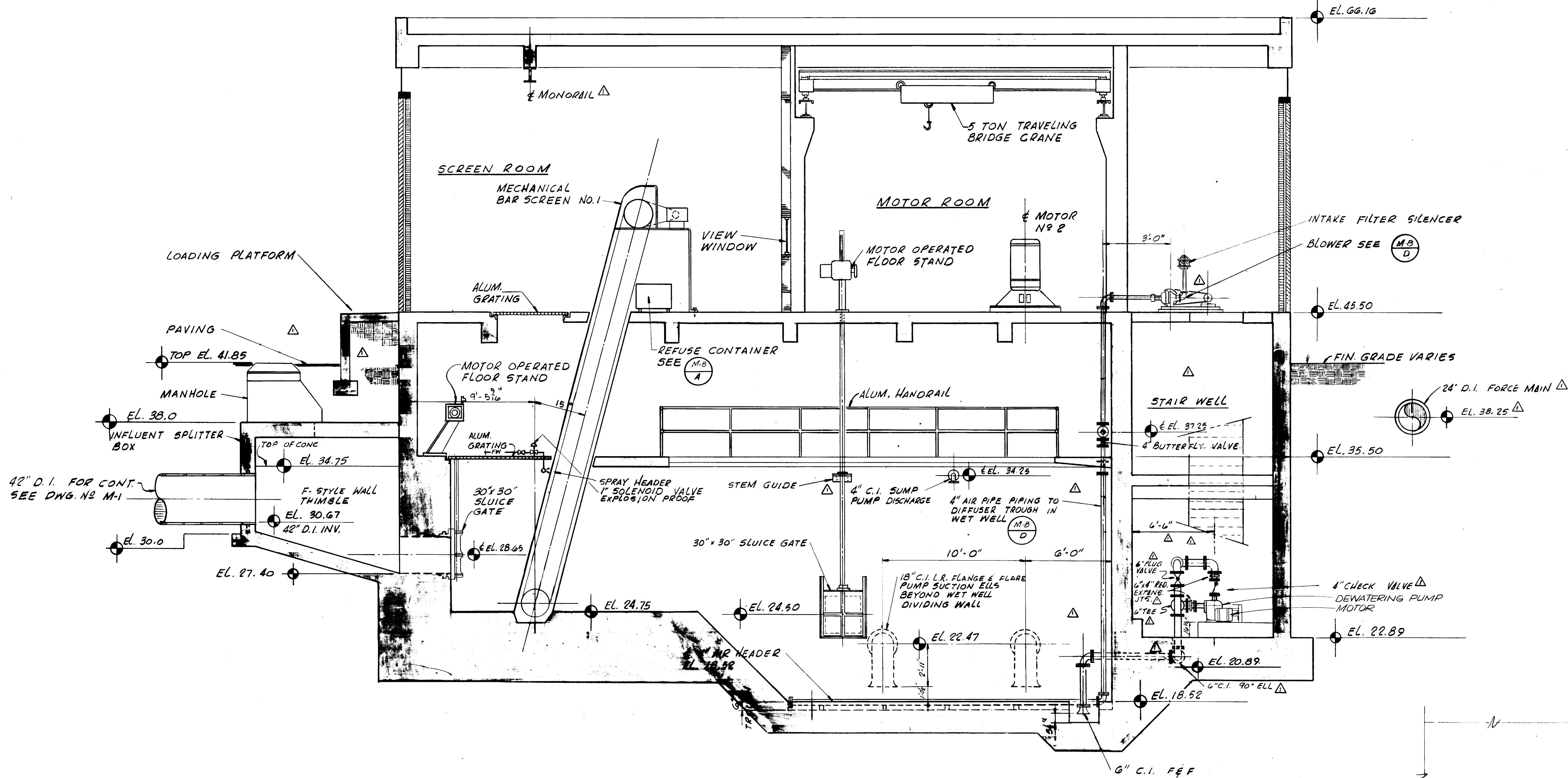
SEWERAGE IMPROVEMENT PROGRAM
ST JOHNS BLUFF
MASTER PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT

SVERDRUP & PARCEL AND ASSOCIATES, Inc. -- GENERAL CONSULTANT
DETAILED BY JWD SCALE AS SHOWN DATE SEPT 1976
CHECKED BY B A B

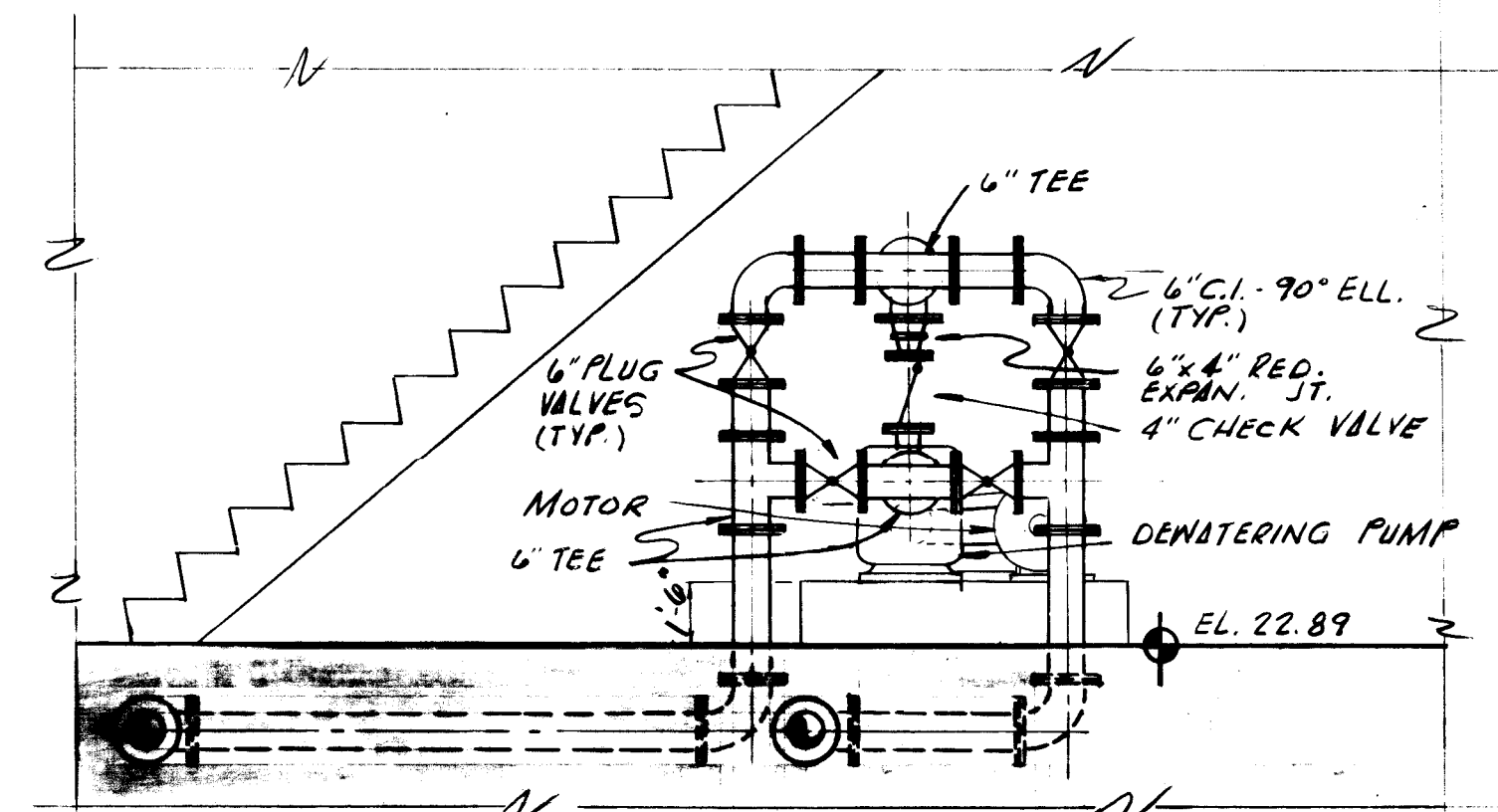
PLAN AT ELEV 45.50

CONTR NO JS 40 7 PROJ NO 7316 SHEET NO 5 OF 42



SECTION

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



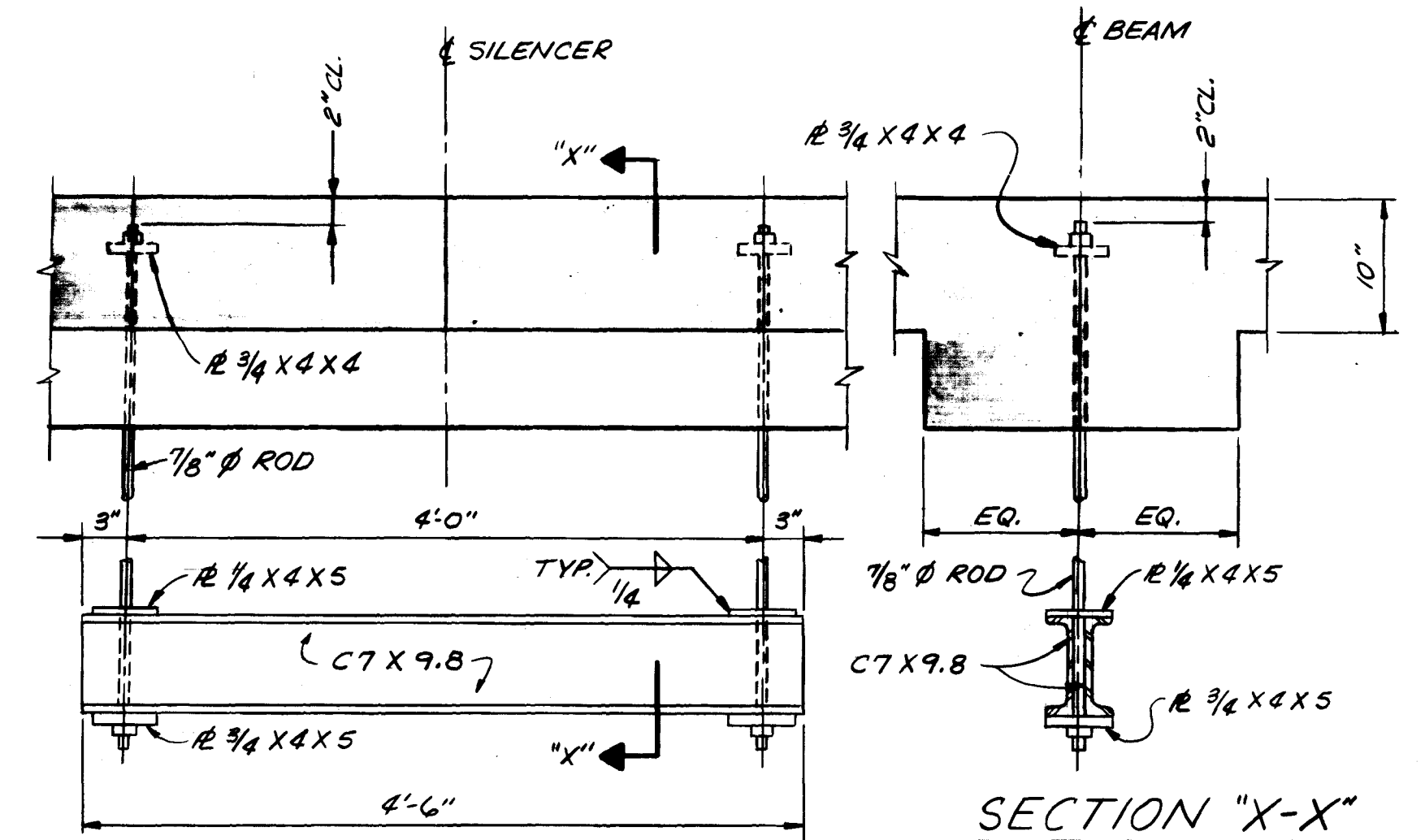
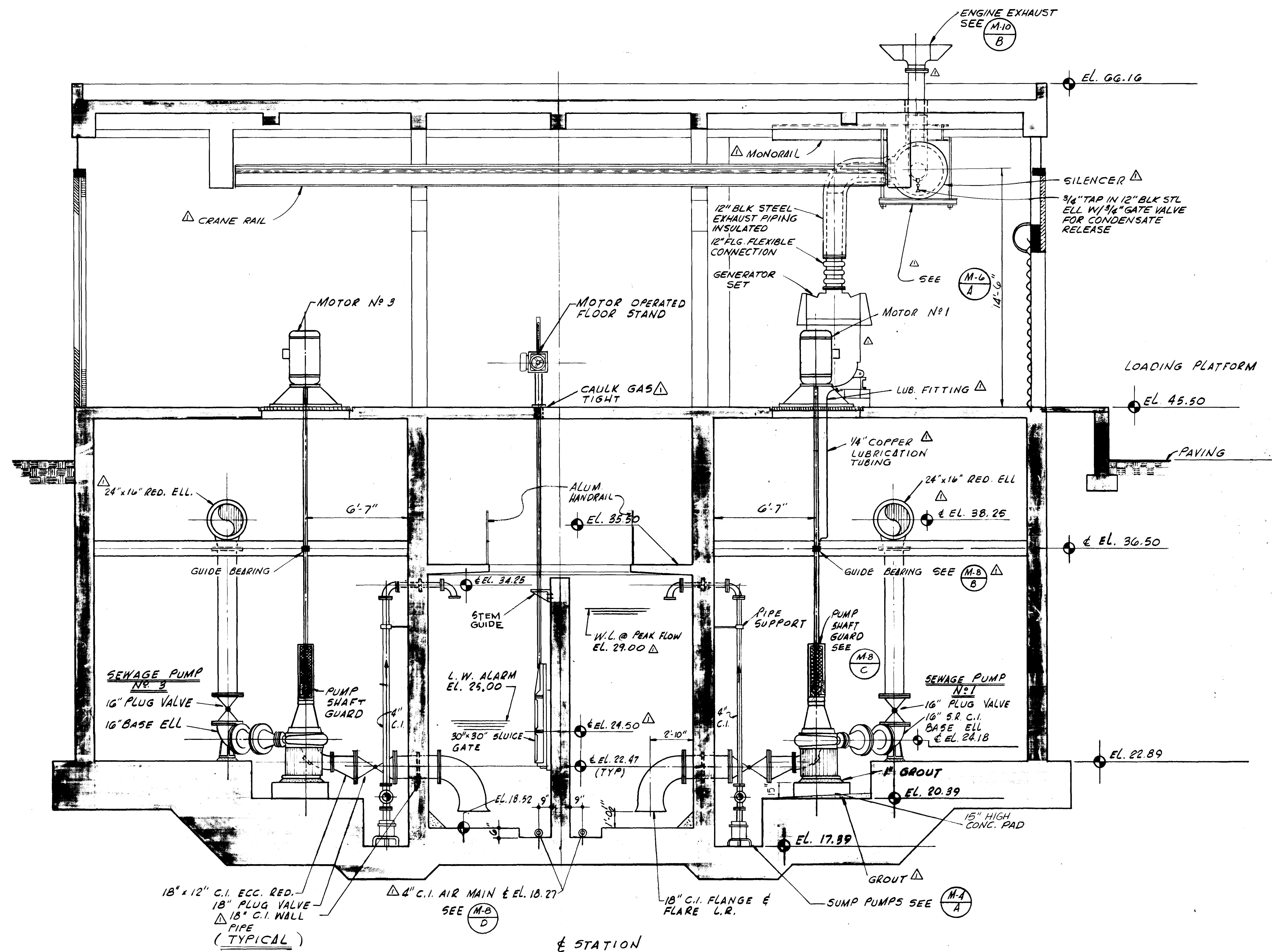
AS BUILT 12902
OCT. 1981

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

M-5	
M-4	?

M-5

										SUBMITTED BY: <u>James S. English</u>		APPROVED BY: _____		CITY OF JACKSONVILLE, FLORIDA		FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT		LONGITUDINAL SECTION																																	
										REG. ENGR. FLA. NO. <u>6847</u> DATE <u>9-76</u> FLOOD & ASSOCIATES, INC.		REG. ENGR. FLA. NO. _____ DATE _____ WATER AND SEWER DIVISION																																							
										APPROVAL RECOMMENDED BY: <u>George Shaw</u>		AUTHORIZED BY: <u>James S. English</u>		SEWERAGE IMPROVEMENT PROGRAM ST. JOHNS BLUFF MASTER PUMPING STATION		SVERDRUP & PARCEL AND ASSOCIATES, INC. -- GENERAL CONSULTANT																																			
										REG. ENGR. FLA. NO. <u>1284</u> DATE <u>3-30-76</u> SVERDRUP & PARCEL AND ASSOCIATES, INC.		REG. ENGR. FLA. NO. <u>6822</u> DATE <u>3-6-76</u> CITY OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA																																							
<table><tr><td colspan="2">PRE BID REVISION</td><td>JB</td><td>EA</td><td>9/77</td><td>3</td><td>3/70</td><td>1/41</td><td>3/67</td><td></td></tr><tr><td>NO.</td><td>DESCRIPTION</td><td>BY</td><td>FIRM</td><td>DATE</td><td>3&P</td><td>DATE</td><td>PW</td><td>DATE</td><td></td></tr><tr><td colspan="2">REVISIONS</td><td colspan="2">SUBMITTAL</td><td colspan="6">APPROVAL</td></tr></table>										PRE BID REVISION		JB	EA	9/77	3	3/70	1/41	3/67		NO.	DESCRIPTION	BY	FIRM	DATE	3&P	DATE	PW	DATE		REVISIONS		SUBMITTAL		APPROVAL										CONTR. NO. <u>JS-40.7</u>				PROJ. NO. <u>7316</u>		SHEET NO. <u>8</u> OF <u>42</u>	
PRE BID REVISION		JB	EA	9/77	3	3/70	1/41	3/67																																											
NO.	DESCRIPTION	BY	FIRM	DATE	3&P	DATE	PW	DATE																																											
REVISIONS		SUBMITTAL		APPROVAL																																															



SILENCER SUPPORT DETAIL

N.T.S.

△ TWO REQUIRED - SPACED TO SUPPORT 1/3 POINTS OF THE EQUIPMENT SUPPLIED.

SECTION

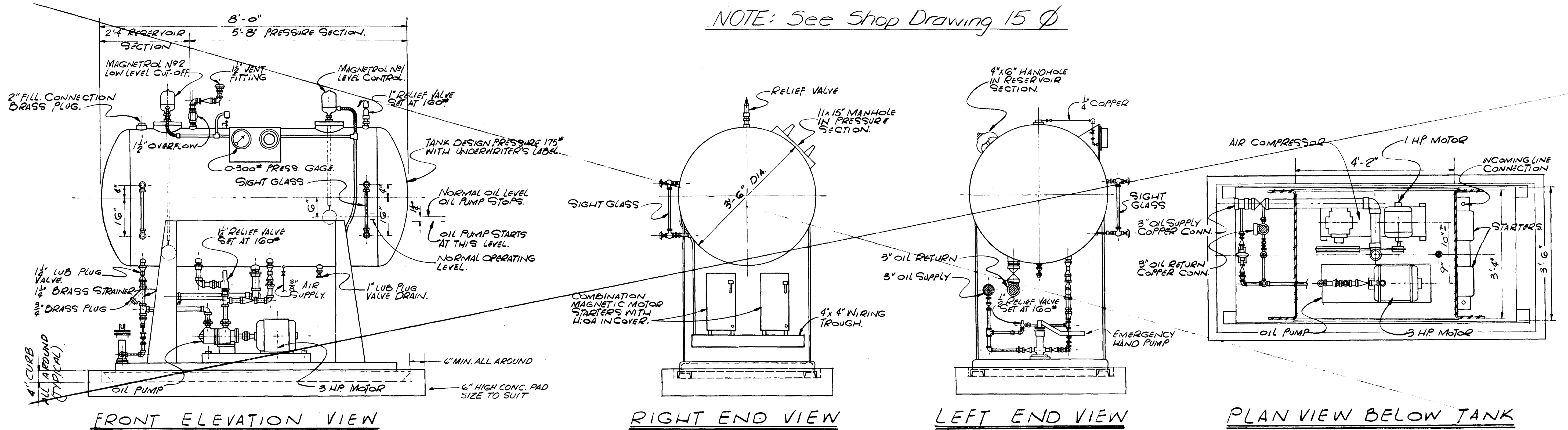
SCALE 1/4" = 1'-0"

12903

AS BUILT
OCT, 1981

M-6

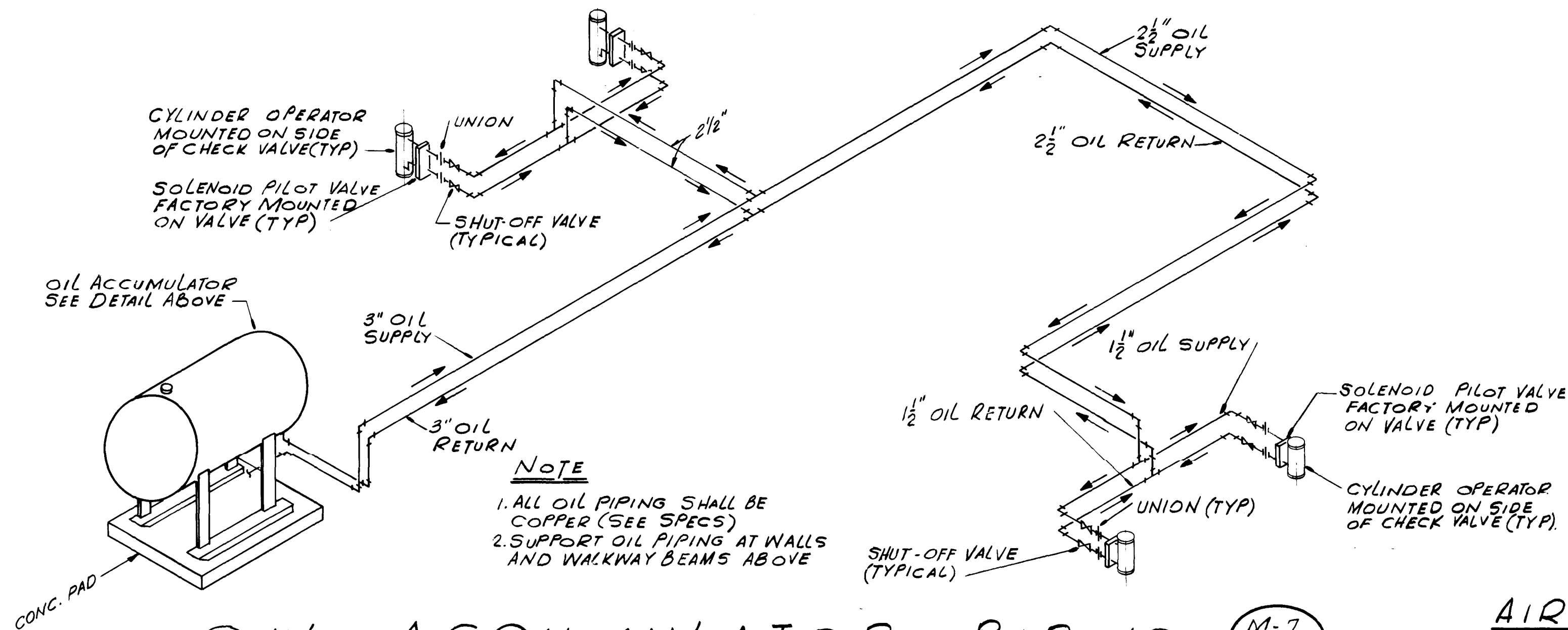
										SUBMITTED BY: <i>James S. English</i> REG. ENGR. FLA. NO. 6847 DATE 9-76 FLOOD & ASSOCIATES, INC.										APPROVED BY: _____ REG. ENGR. FLA. NO. _____ DATE _____ WATER AND SEWER DIVISION										CITY OF JACKSONVILLE, FLORIDA										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT										TRANSVERSE SECTION									
										APPROVAL RECOMMENDED BY: <i>Shirley E. Harrison</i> REG. ENGR. FLA. NO. 12222 DATE 3-28-78 SVERDRUP & PARCEL AND ASSOCIATES, INC.										AUTHORIZED BY: <i>W. H. L. Smith</i> REG. ENGR. FLA. NO. 4270 DATE 3-28-78 OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA																																							
PRE BID REVISION										JB FFA 9/77 <i>g</i> 3/78 JHH <i>g</i> 3/78																				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																																																	
REVISIONS										SUBMITTAL APPROVAL																				DETAILED BY: CD CHECKED BY: BAB										SCALE SHOWN DATE SEPT 1976										CONTR. NO. JS-40.7 PROJ. NO. 7316 SHEET NO. 9 OF 42									



DETAIL OIL ACCUMULATOR

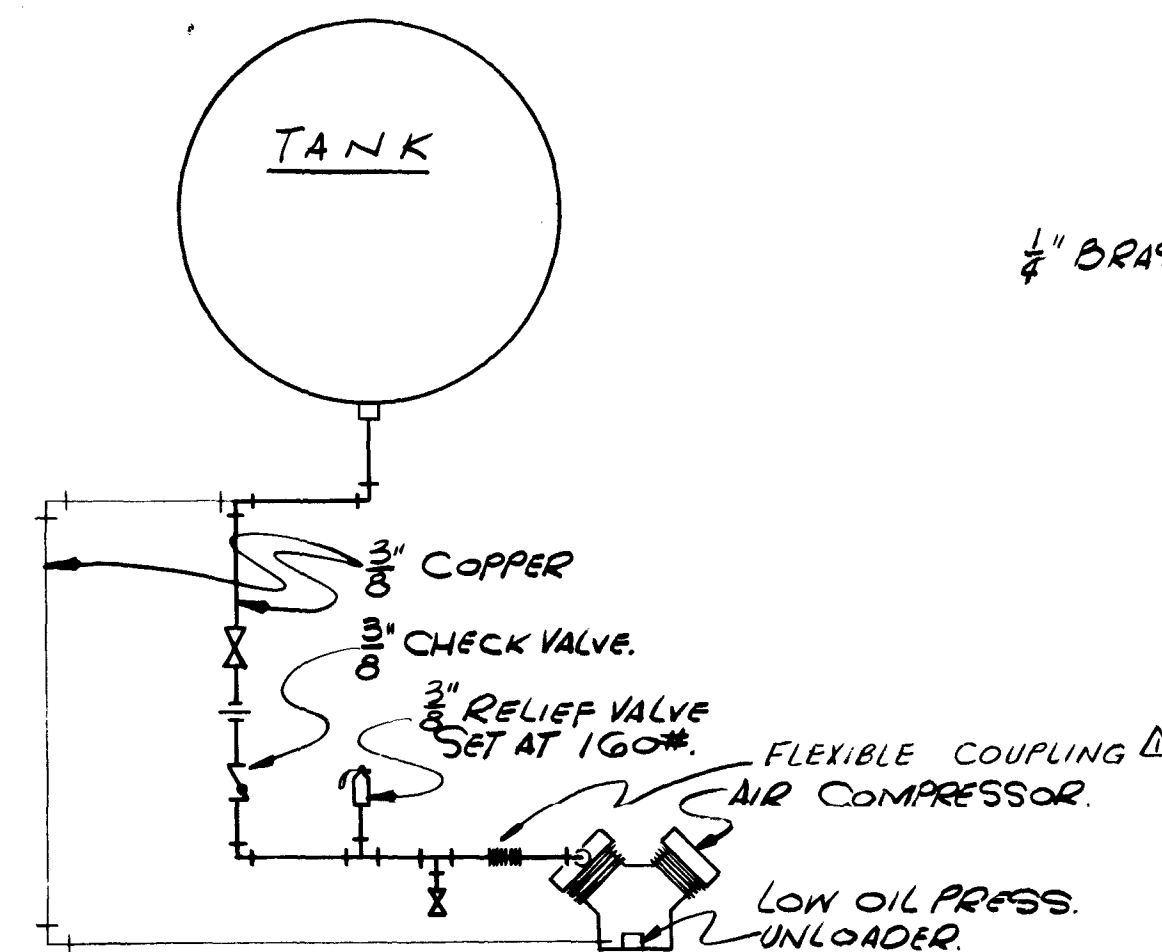
SCALE: 3/4" = 1'-0"

M-7
M-4 A



OIL ACCUMULATOR PIPING SCHEMATIC

M-7
M-7 B



AIR COMPRESSOR PIPING SCHEMATIC

NOT TO SCALE

M-7
M-7 C

GAGE PIPING SCHEMATIC

NOT TO SCALE

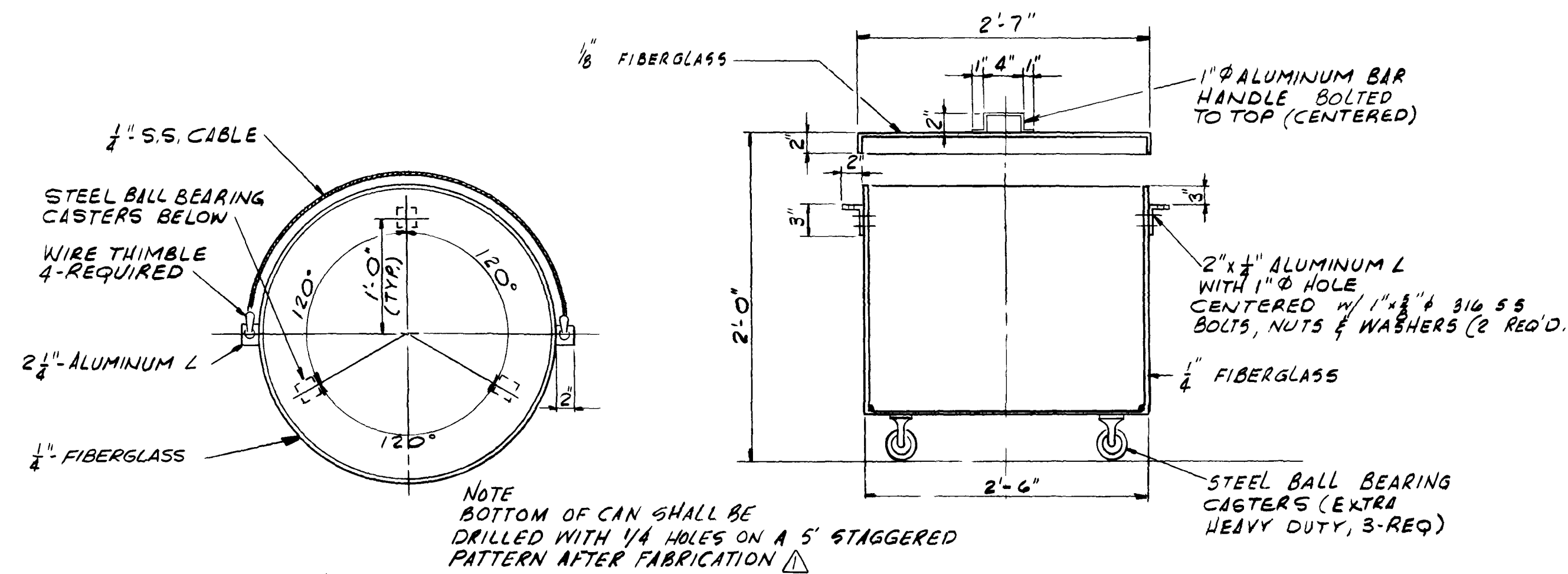
M-7
M-7 D

12904

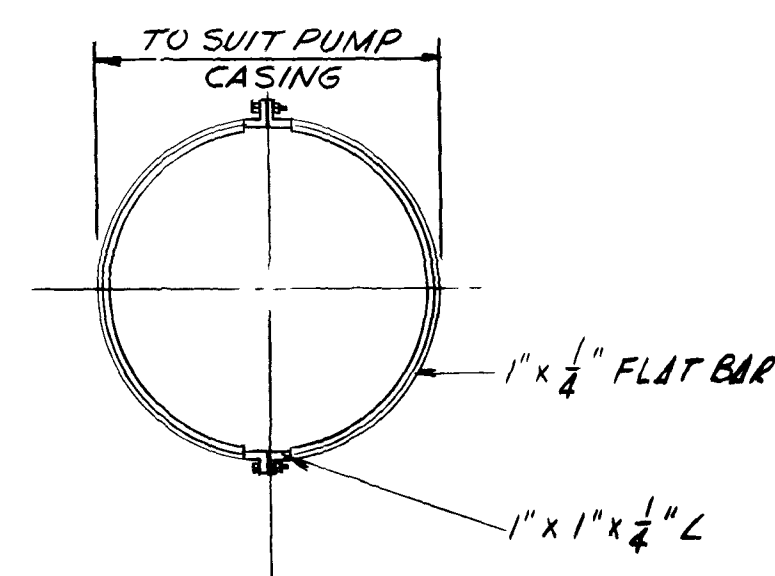
AS BUILT
OCT. 1981

M-7

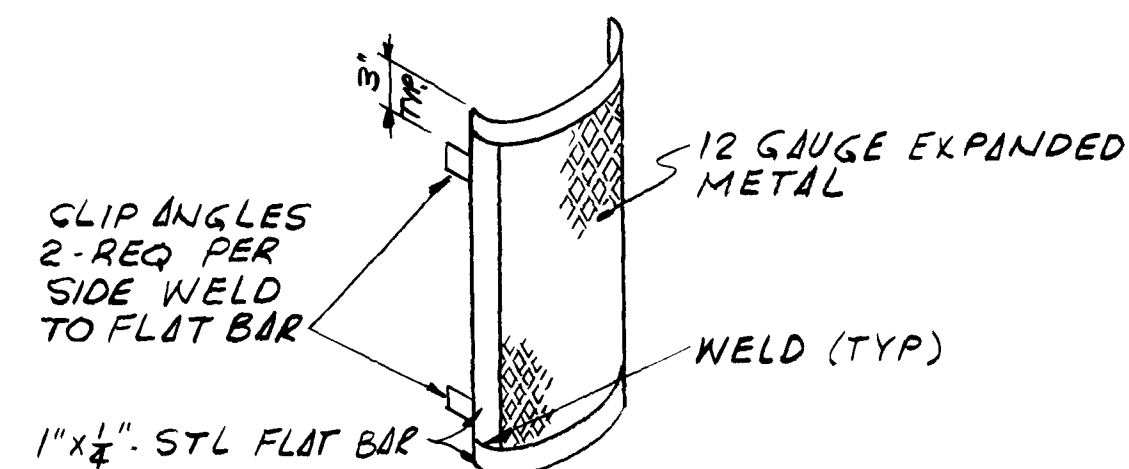
										SUBMITTED BY <u>James S. England</u> REG. ENGR. FLA. NO. <u>6847</u> DATE <u>9/76</u> FLOOD & ASSOCIATES, INC.										APPROVED BY: _____ REG. ENGR. FLA. NO. _____ DATE _____ WATER AND SEWER DIVISION AUTHORIZED BY <u>[Signature]</u> REG. ENGR. FLA. NO. <u>6847</u> DATE <u>9/26/76</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										CITY OF JACKSONVILLE, FLORIDA										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT										OIL ACCUMULATOR DETAILS									
PRE-BID REVISIONS										JB FEA 977 37 3/75 J.H.A. 3/11										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										SVERDRUP & PARCEL AND ASSOCIATES, INC.										SCALE AS SHOWN DATE SEPT. 1976										CONTR. NO. JS 40.7																			
REVISIONS										SUBMITTAL APPROVAL										CHECKED BY: B.A.B.										PROJ. NO. 7316										SHEET NO. 10 OF 42																			



TOP VIEW
(WITH OUT COVER)
DETAIL REFUSE CONTAINER
SCALE : 1" = 1' - 0" (4-REQUIRED)

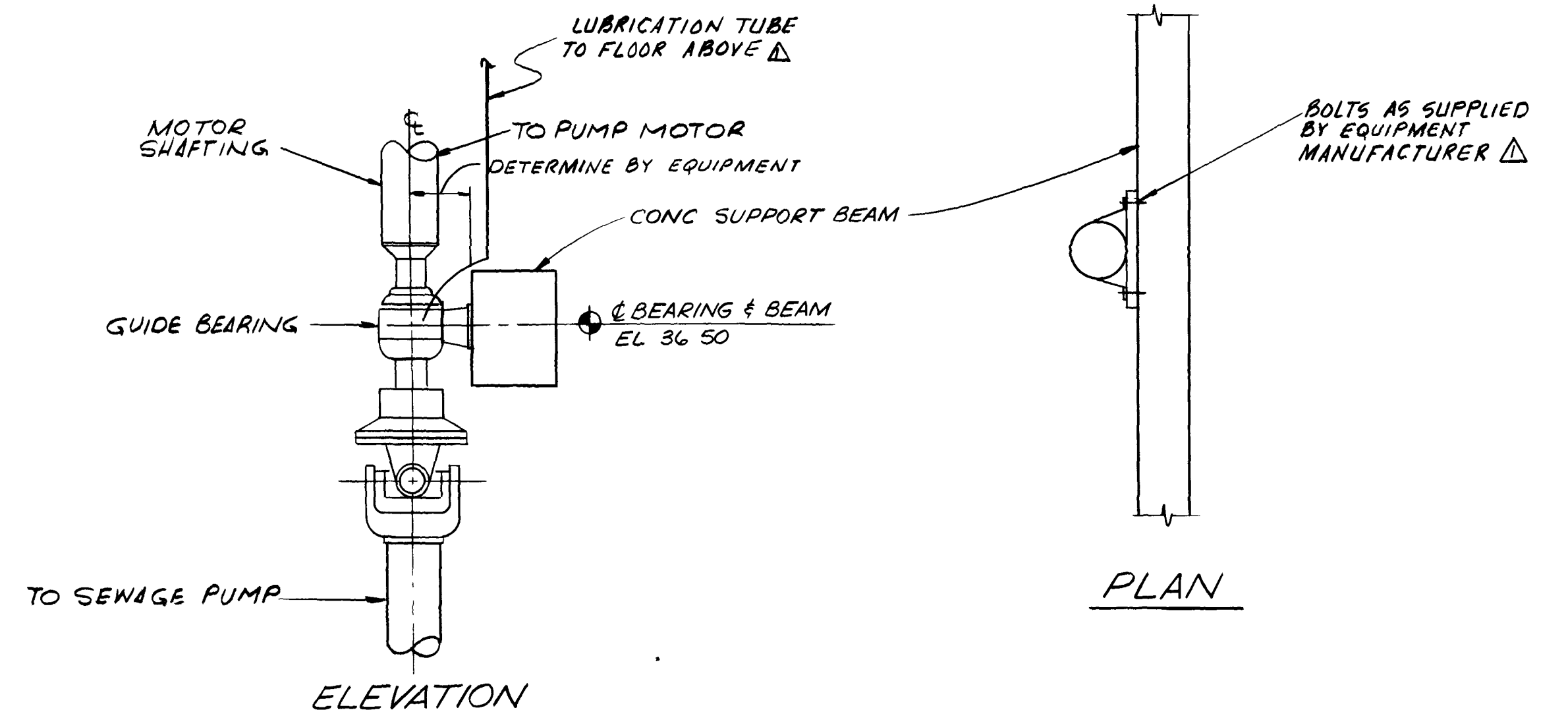


PLAN

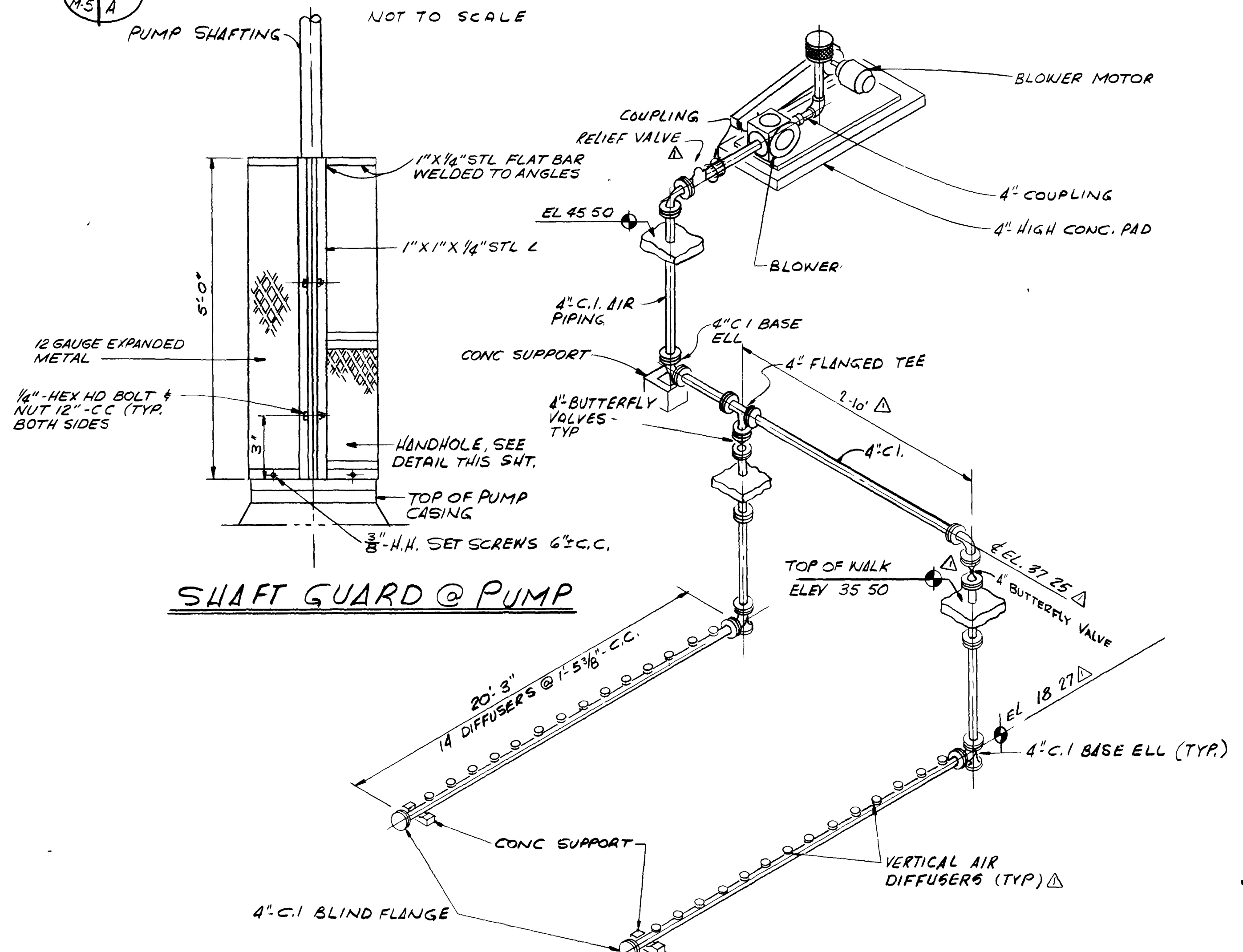


DETAIL HANDHOLE
NOT TO SCALE

NOTE
AFTER FABRICATION, SHAFT GUARD SHALL BE HOT DIPPED GALVANIZED



ELEVATION
DETAIL PILLOW BLOCK BEARING SUPPORT



SHAFT GUARD @ PUMP

BLOWER PIPING SCHEMATIC
NOT TO SCALE

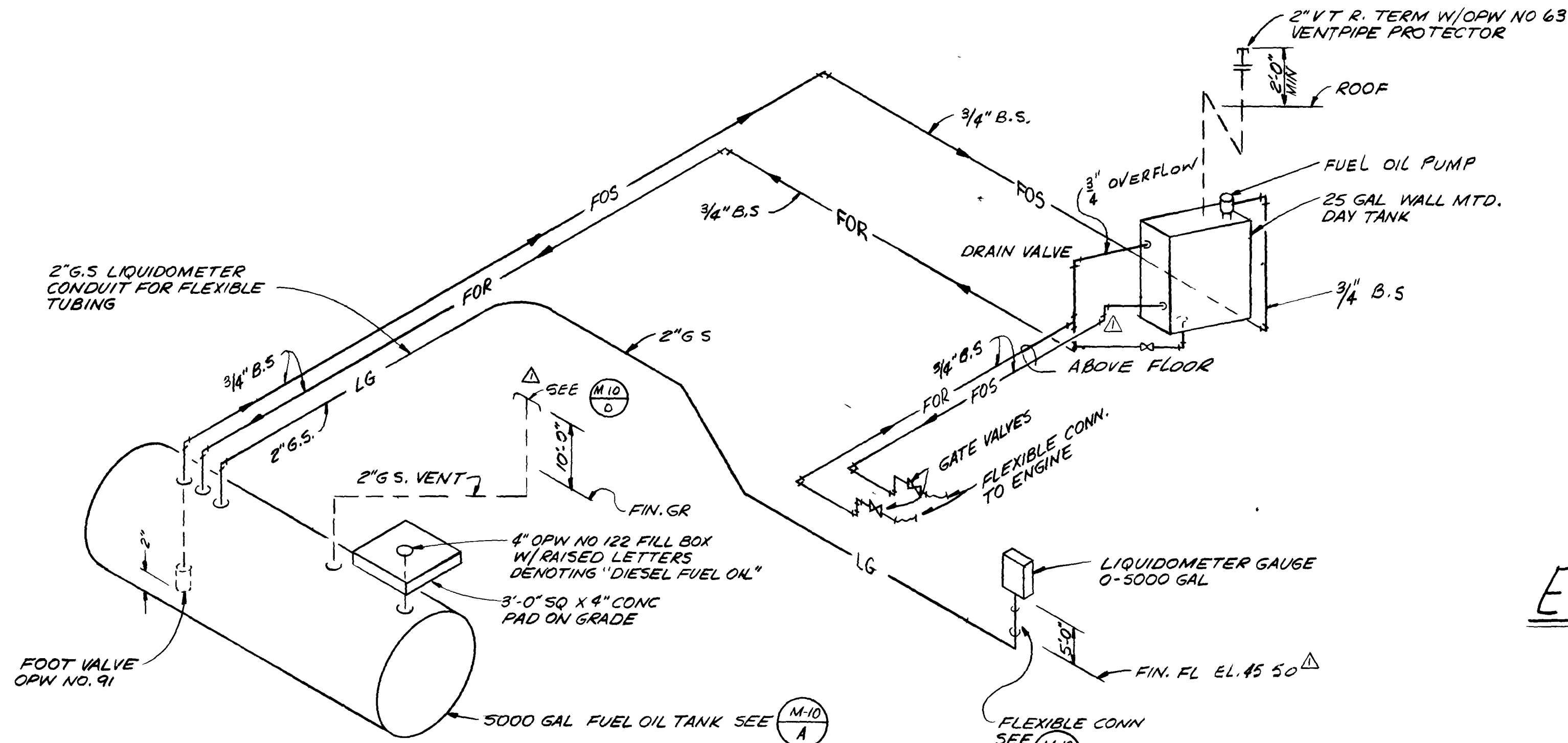
AS BUILT
OCT 1981

DETAIL PUMP SHAFT GUARD
NOT TO SCALE

										SUBMITTED BY: <i>James A. Coulter</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. DESIGN CONSULTANT												MISCELLANEOUS DETAILS													
PRE BID REVISION										APPROVAL RECOMMENDED BY: <i>John A. ...</i> REG ENGR FLA NO 141222 DATE 3-22-78 SVERDRUP & PARCEL AND ASSOCIATES INC.											AUTHORIZED BY: <i>John A. ...</i> REG ENGR FLA NO. _____ DATE _____ OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE FLORIDA										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																					DETAILED BY: SBD CHECKED BY: BAB												SCALE AS SHOWN DATE SEPT 1976												CONTR NO JS 407 PROJ NO 7316 SHEET NO 11 OF 42											
REVISIONS										SUBMITTAL											APPROVAL																																													

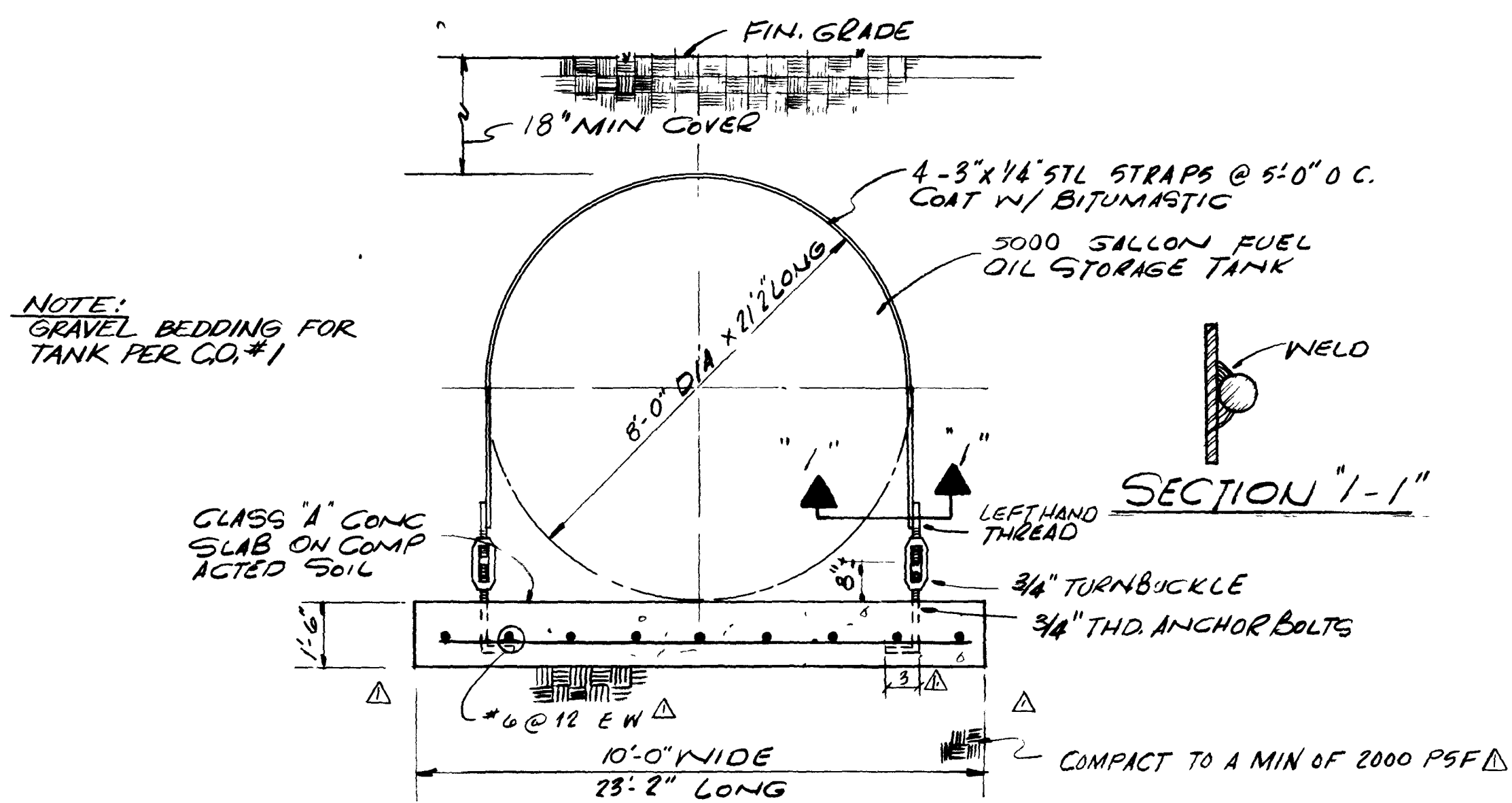
12905

M-8



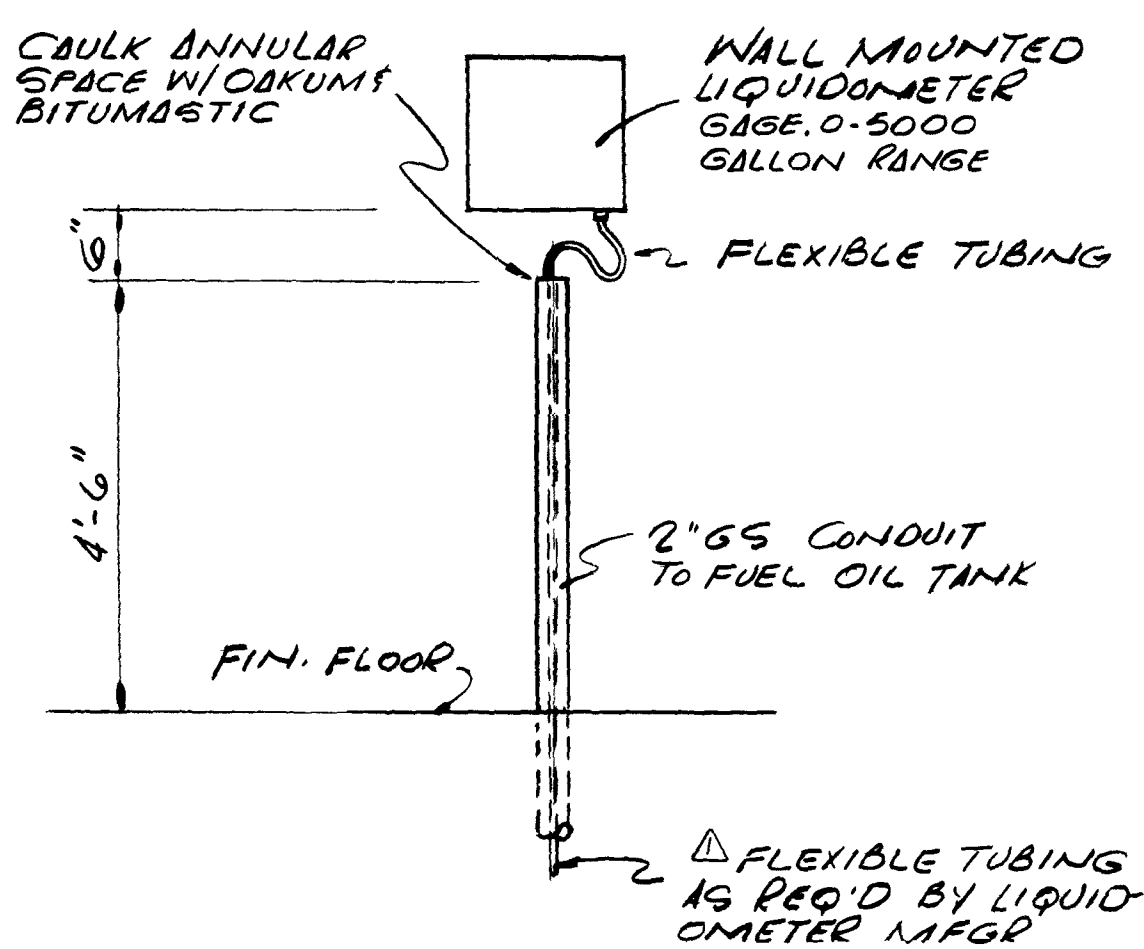
FUEL OIL PIPING SCHEMATIC

N.T.S



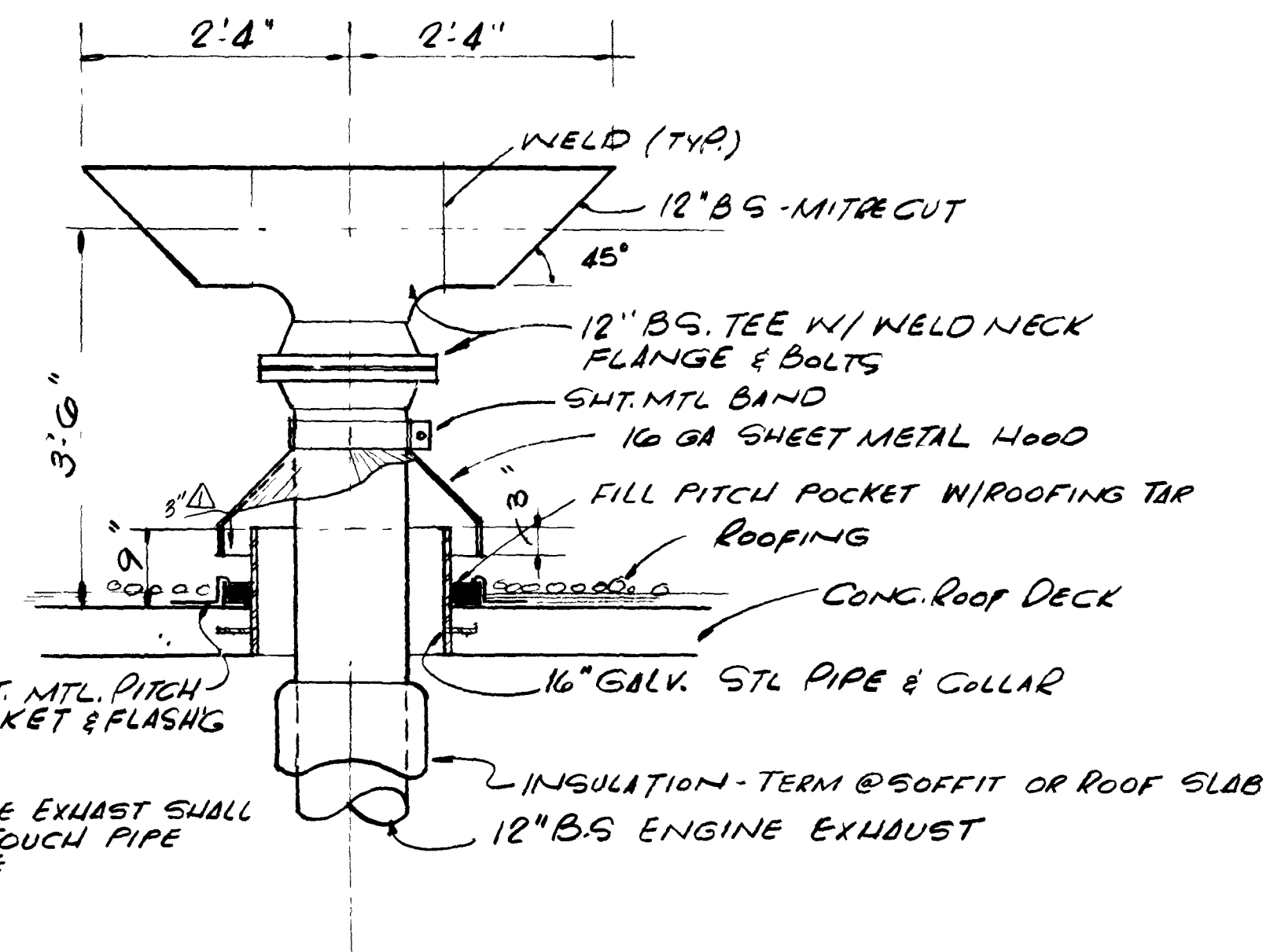
FUEL OIL TANK FOUNDATION DETAIL

N.TS



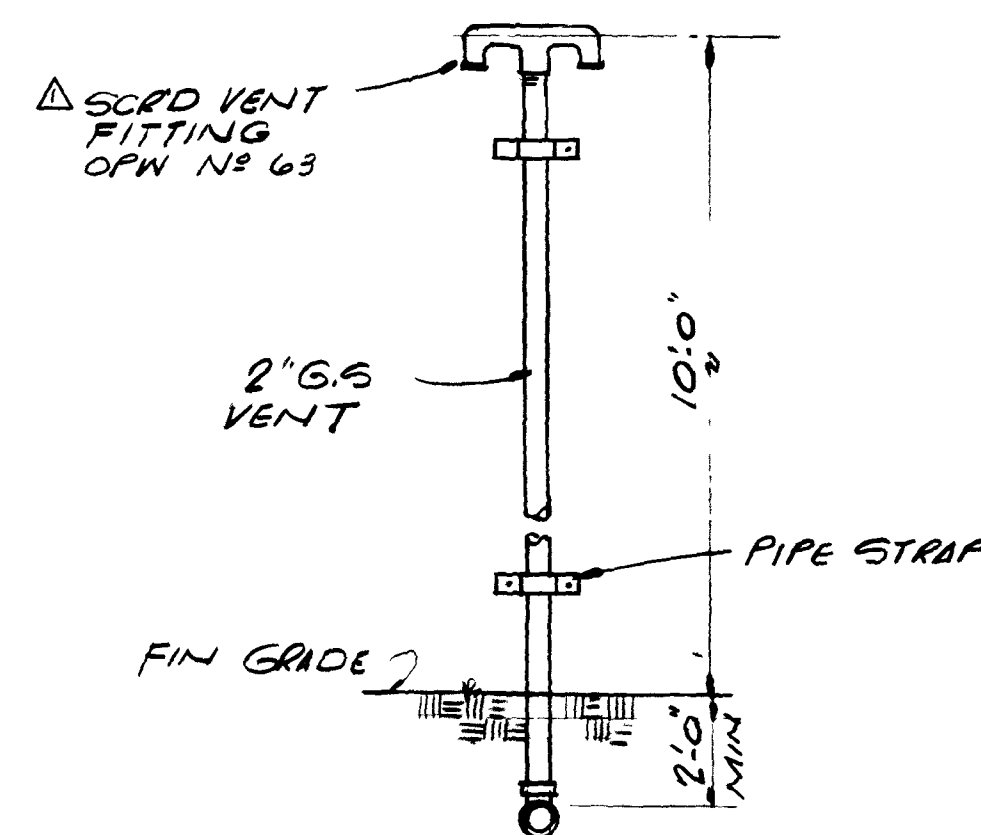
DETAIL

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



ENGINE ROOF EXHAUST DETAIL

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



DETAIL

N.T.S

12907

AS BUILT
OCT, 1981

(M-IC

										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 1977		3/11 3/15						
NO	DESCRIPTION									BY	FIRM	DATE	S&P	DATE	PW	DATE				
REVISIONS										SUBMITTAL		APPROVAL								
DETAILED 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

- SOIL OR WASTE
- VENT
- STORM
- PW POTABLE WATER
- FW FLUSHING WATER
- F.E. FIRE EXTINGUISHER - 12 # CAPACITY
- CLEANOUT BELOW FLOOR

PLUMBING PLAN

EL. 45.50

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

12908

AS BUILT
OCT. 1981

P-1

SUBMITTED BY: <i>[Signature]</i> DATE: 9/76 REG. ENGR. FLA. NO. 6847 FLOOD & ASSOCIATES, INC.										APPROVED BY: <i>[Signature]</i> DATE: 9/76 REG. ENGR. FLA. NO. 4270 OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA									
CITY OF JACKSONVILLE, FLORIDA										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT									
SEWERAGE IMPROVEMENT PROGRAM										SVERDRUP & PARCEL AND ASSOCIATES, INC. -- GENERAL CONSULTANT									
ST. JOHNS BLUFF										DETAILED BY: JAB CHECKED BY: BAB									
MASTER PUMPING STATION										DATE: SEPT 1976									
CONTR. NO. JS-40.7										PROJ. NO. 7316									
SHEET NO. 14										OF 42									

4" C.I. TERMINATE 1" BEYOND
FACE OF LOADING PLATFORM
WALL INVERT OF PIPE TO BE
ABOVE FINISH PAVING

2" BELOW PAVING.
FOR CONT. SEE DWG.
M-1

2" GATE VALVE IN
C.I. VALVE BOX

3" STORM. TERMINATE 1" BEYOND
FACE OF LOADING PLATFORM
WALL. INV. EL. OF PIPE TO BE
6" ABOVE PAVING.

2" STORM. TERMINATE 1" BEYOND
FACE OF LOADING PLATFORM
WALL. INV. EL. OF PIPE TO BE 6" ABOVE
PAVING-TYP. FOR BOTH TRENCH
DRAINS.

3" HOSE BIBB
18" ABOVE SLAB

3" FW. FROM
BELOW

UP TO 3" ROOF DRAIN

2" HUB DRAIN W/ BAR
GRATE, SET TOP OF HUB
FLUSH W/ TRENCH BOTTOM
(TYP.)

LOADING PLATFORM

LOADING PLATFORM

EXTEND OVER CHANNEL
AND TURN DOWN W/
90° ELL

4" C.I.
INV. EL.

1/2" HOSE VALVE (FW)
SEE M-3
E

SPLASH BLOCK
4" C.I.

2'-BELOW FL.

SCREEN ROOM

BELOW FL.

4'-BELOW FL.

4" FLOOR DRAIN

2" VTR

4" C.I.

4" F.D.

2" VTR

2" VTR

MOTOR ROOM

4" BELOW FLOOR

4" C.I.

4" FLOOR DRAIN

MECH. BAR SCREEN

2" VTR

2" VTR

2" VTR

1/4" C.W. RISE

2" VENT

2" DROP TO 320 GAL. TANK BELOW

4" BELOW FLOOR

4" FLOOR DRAIN

MECH. BAR SCREEN

4" C.I.

4" F.D.

2" VTR

2" VTR

2" VTR

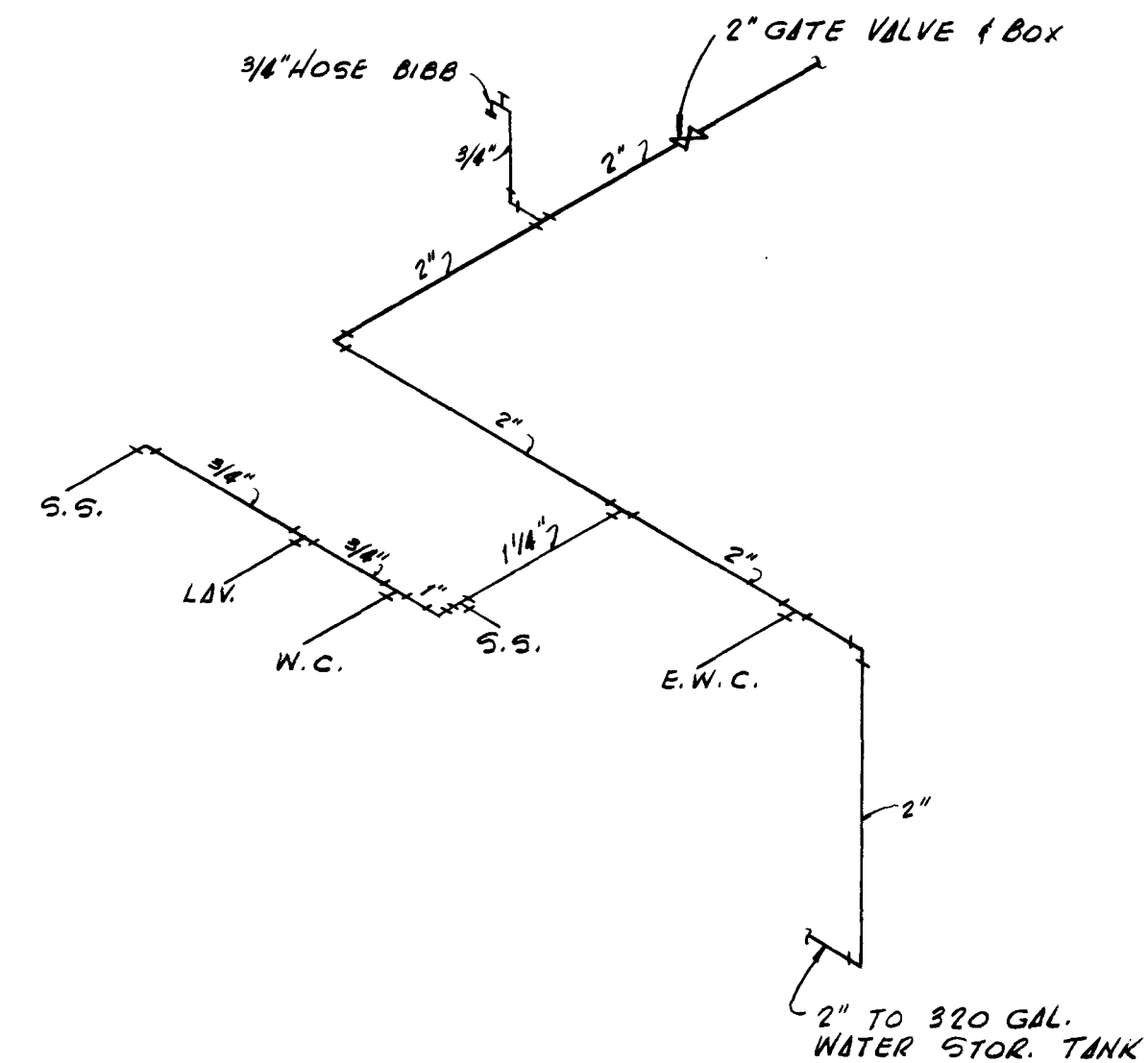
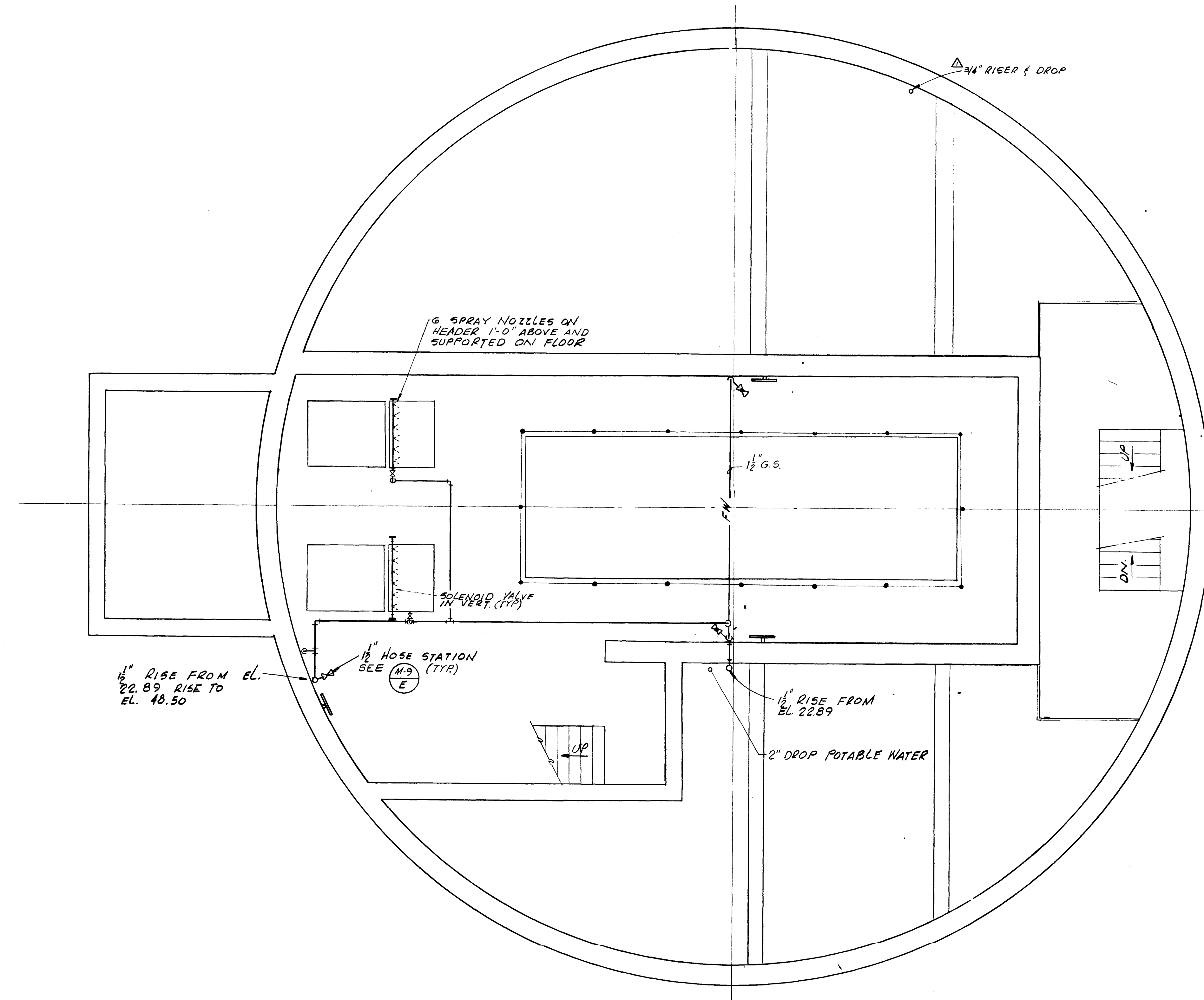
SPLASH BLOCK

UP TO 3" ROOF DRAIN

UP TO 3" ROOF DRAIN

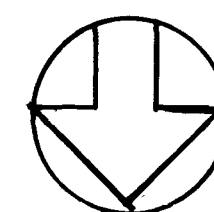
TERMINATE 3" STORM
PIPING 1" BEYOND
FACE OF FIN. WALL
& 2" ABOVE SPLASH
BLOCK (TYP.)

SPLASH BLOCK



△ POTABLE WATER RISER DIAGRAM

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



AS BUILT
OCT. 1981

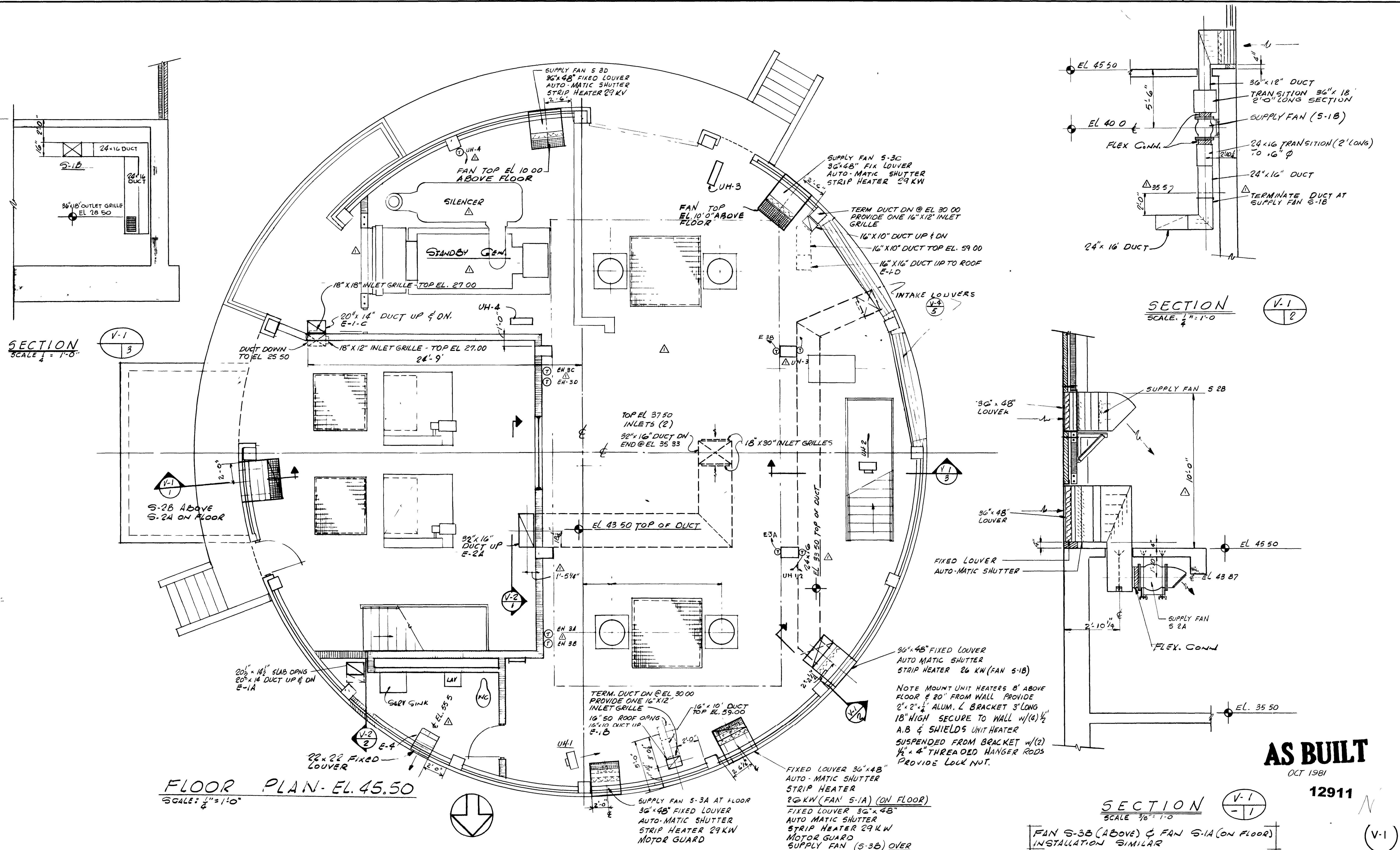
12909

N

P-2

										SUBMITTED BY: <i>James J. English</i>				APPROVED BY: _____				CITY OF JACKSONVILLE, FLORIDA				FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT				PLUMBING PLAN ELEV. 35.50			
										REG. ENGR. FLA. NO. 6847 DATE 9-76 FLOOD & ASSOCIATES, INC.				REG. ENGR. FLA. NO. _____ DATE _____ WATER AND SEWER DIVISION															
										APPROVAL				AUTHORIZED BY: <i>James J. English</i>				SEWERAGE IMPROVEMENT PROGRAM ST. JOHNS BLUFF MASTER PUMPING STATION				SVERDRUP & PARCEL AND ASSOCIATES, Inc. --- GENERAL CONSULTANT				CONTR. NO. JS-40.7 PROJ. NO. 7316 SHEET NO. 15 OF 42			
										RECOMMENDED BY: <i>James J. English</i>				DATE 9-28-76															
										REG. ENGR. FLA. NO. 1824 DATE 3-28-76 SVERDRUP & PARCEL AND ASSOCIATES, INC.				REG. ENGR. FLA. NO. 9270 DATE 9-3-76 OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA				DETAILED BY: CD				SCALE SHOWN				DATE SEPT 1976			
										REVISIONS				SUBMITTAL				APPROVAL				CHECKED BY: BAB							

1.



AS BUILT

OCT 1981

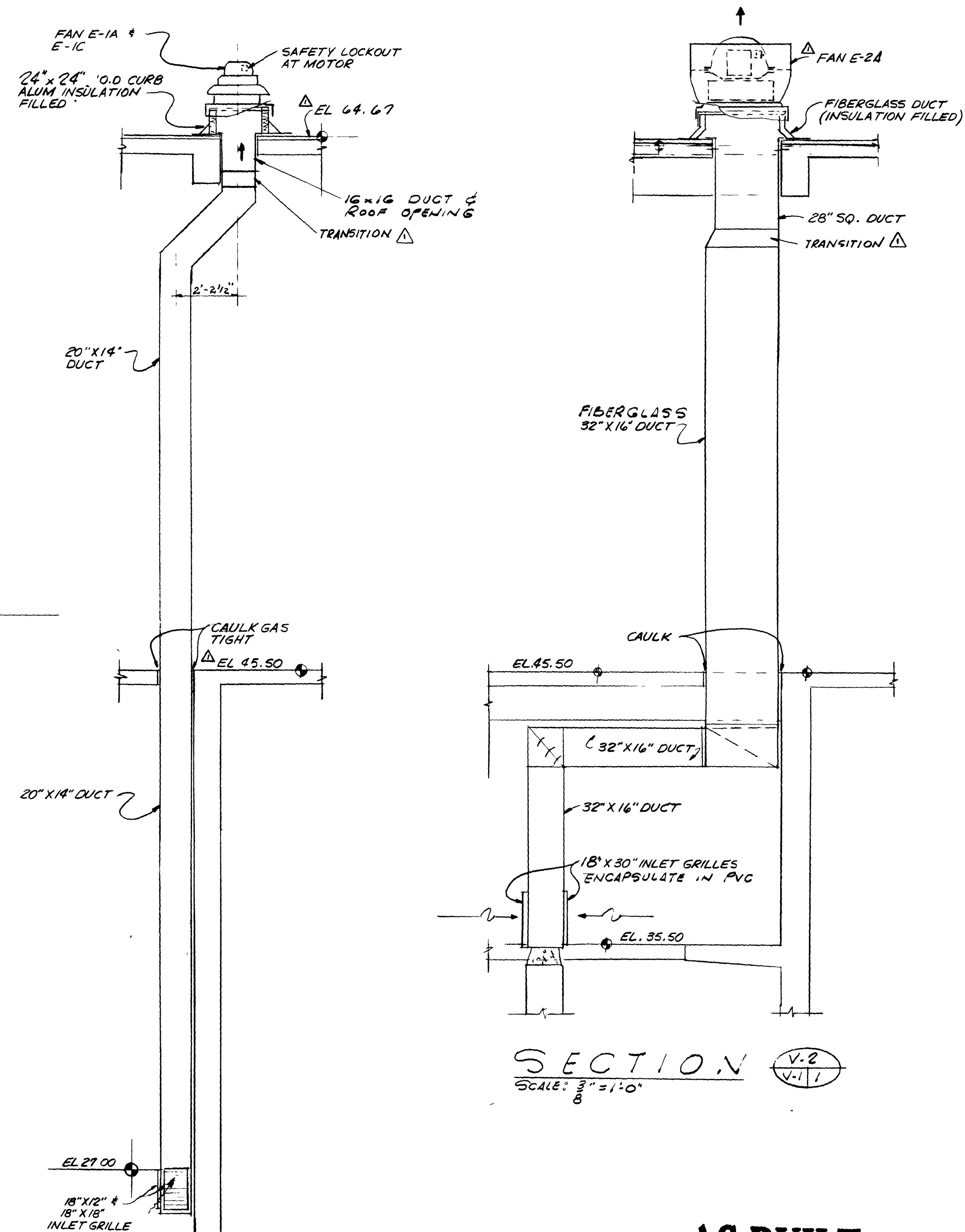
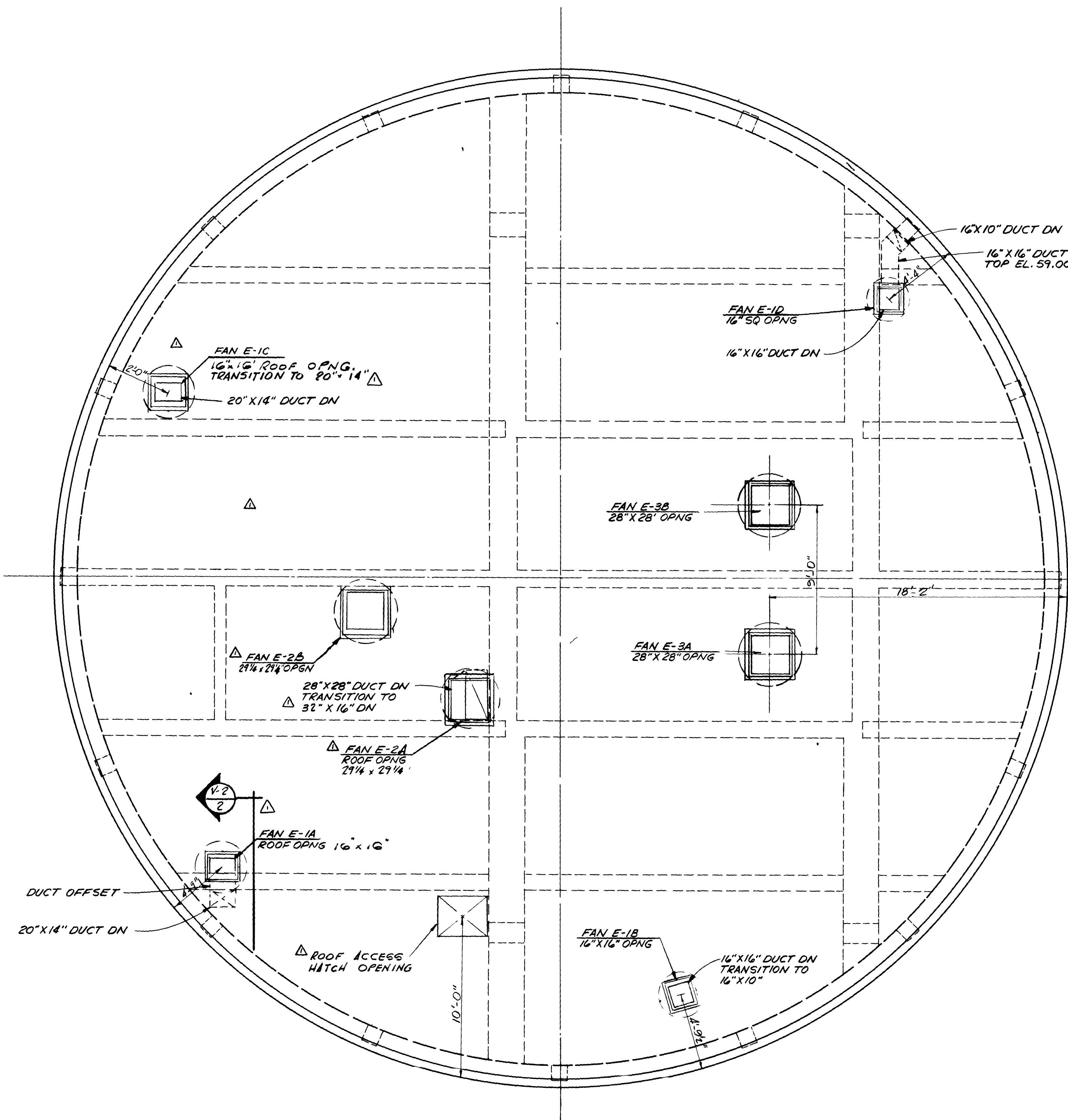
T 198

12911

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

FAN S-3B (ABOVE) & FAN S-1A (ON FLOOR)
INSTALLATION SIMILAR

										SUBMITTED BY <u>James S. English</u>		APPROVED BY _____		CITY OF JACKSONVILLE, FLORIDA		FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT				HEATING & VENTILATION/ PLAN AT ELEV 45.50			
										REG ENGR FLA NO. <u>6847</u> DATE <u>9/76</u>		REG ENGR FLA NO. _____ DATE _____											
										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 407</u> PROJ NO. <u>7316</u> SHEET NO. <u>17</u> OF <u>42</u>			
										APPROVAL RECOMMENDED BY <u>James S. English</u>		AUTHORIZED BY <u>James S. English</u>											
										REG ENGR FLA NO. <u>14824</u> DATE <u>3-28-78</u>		REG ENGR FLA NO. <u>14824</u> DATE <u>1-1-78</u>											
										SVERDRUP & PARCEL AND ASSOCIATES INC		CITY OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE FLORIDA											
										SUBMITTAL		APPROVAL											
										BY <u>FIRM</u> DATE <u>9/77</u> <u>3/11</u> <u>JPH</u> <u>8/8/78</u>													
										REVISIONS													
										NO		DESCRIPTION											
										PRE BID REVISION													

**AS BUILT**

OCT 1981

12912

V-2

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 3/28/78	
RECOMMENDED BY <i>James B. England</i>		REG ENGR FLA NO. 1224		DATE 3/28/78	
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	3/28/78
	REVISIONS		SUBMITTAL		APPROVAL

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 3/28/78	
RECOMMENDED BY <i>James B. England</i>		REG ENGR FLA NO. 1224		DATE 3/28/78	
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
-------------	-----	-------	----------	------	-----------

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

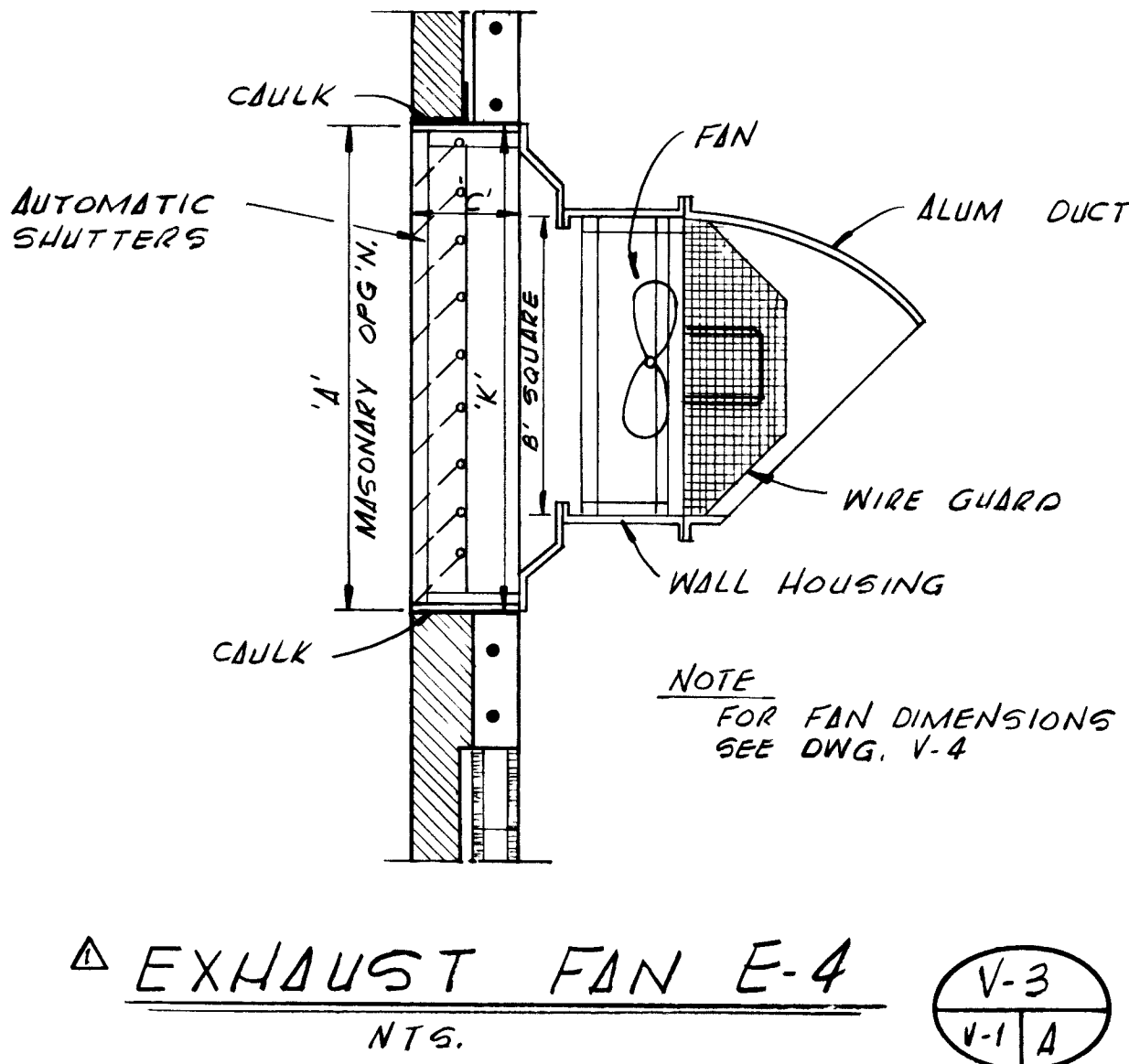
DOOR LOUVERS & GRILLES

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



△ EXHAUST FAN E-4 NTS. V-3 V-1 A

										SUBMITTED BY <i>James J. England</i> REG ENGR FLA NO 6847 DATE 9/76 FLOOD & ASSOCIATES INC		APPROVED BY _____ DATE _____ REG ENGR FLA NO _____ DATE _____ WATER AND SEWER DIVISION AUTHORIZED BY <i>John H. Taylor</i> REG ENGR FLA NO 9220 DATE 8/28/78 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 JWD SCALE AS SHOWN DATE SEPT 1976 CHECKED BY B A B		HEATING & VENTILATION/SCHEDULES CONTR NO JS-407 PROJ NO 7316 SHEET NO 19 OF 42					
PRE BID REVISIONS										JB		F&A		9/77		3/78		HH		3/78		APPROVAL	
NO DESCRIPTION										BY		FIRM		DATE		S&P		DATE		PW		DATE	
REVISIONS										SUBMITTAL													

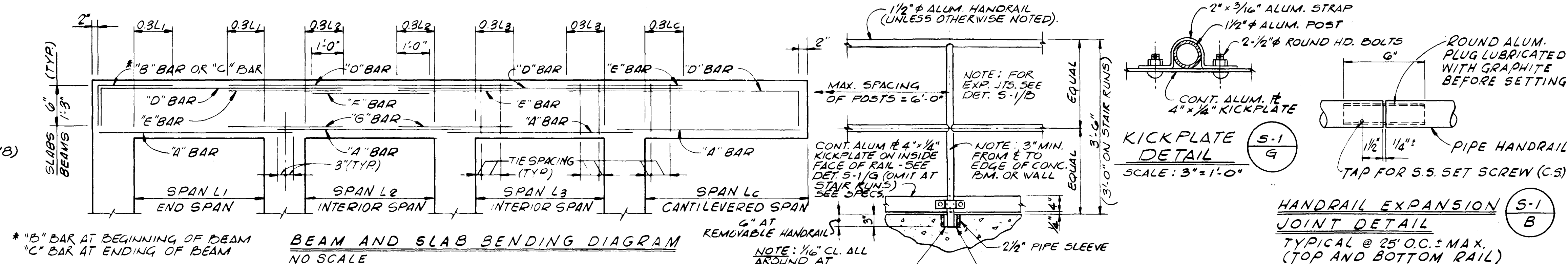
12913

AS BUILT
OCT, 1981

V-3

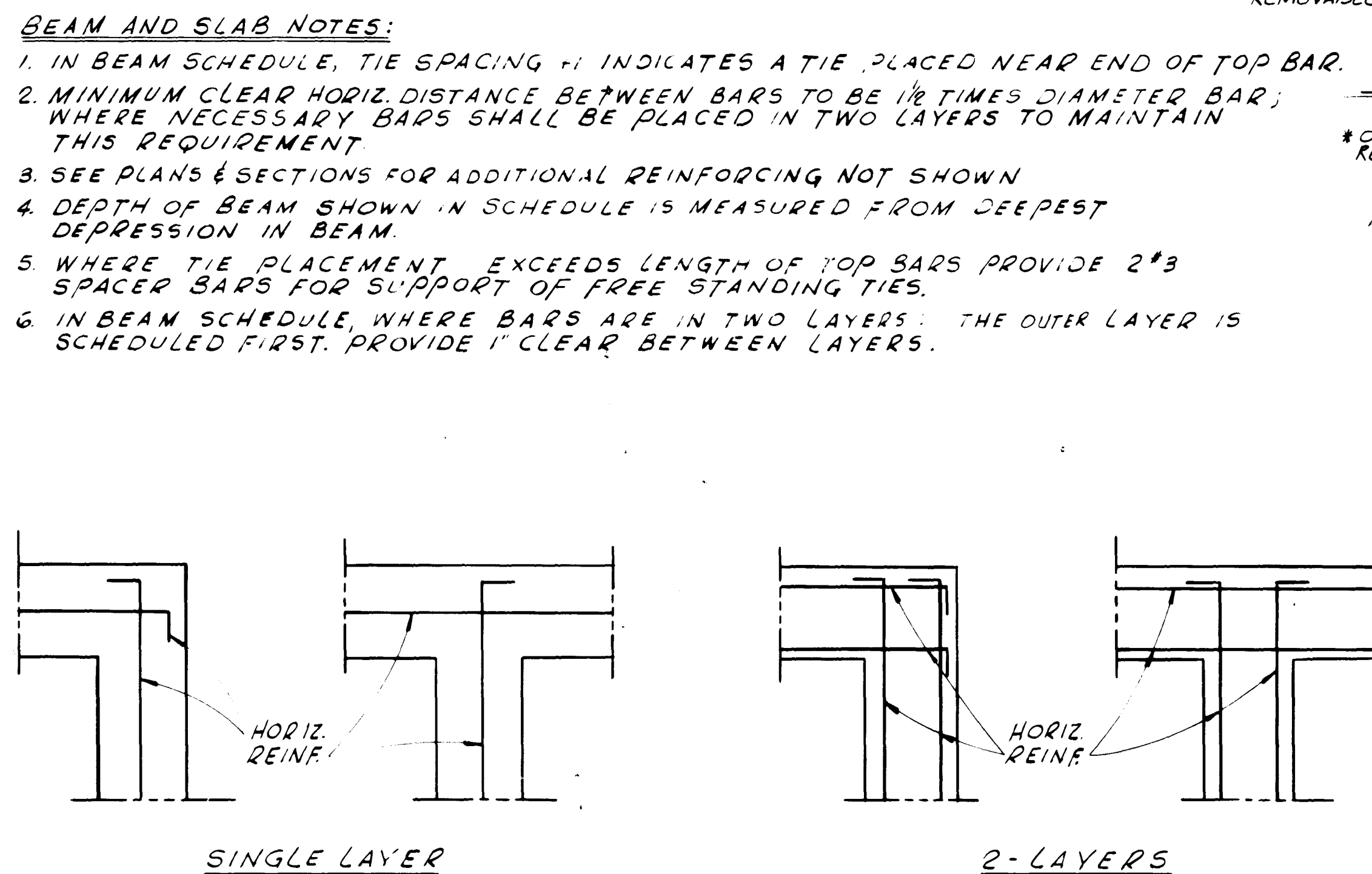
(ALL DESIGN PER "CITY OF JACKSONVILLE, FLORIDA"
BUILDING CODE, EXCEPT AS NOTED.)

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.



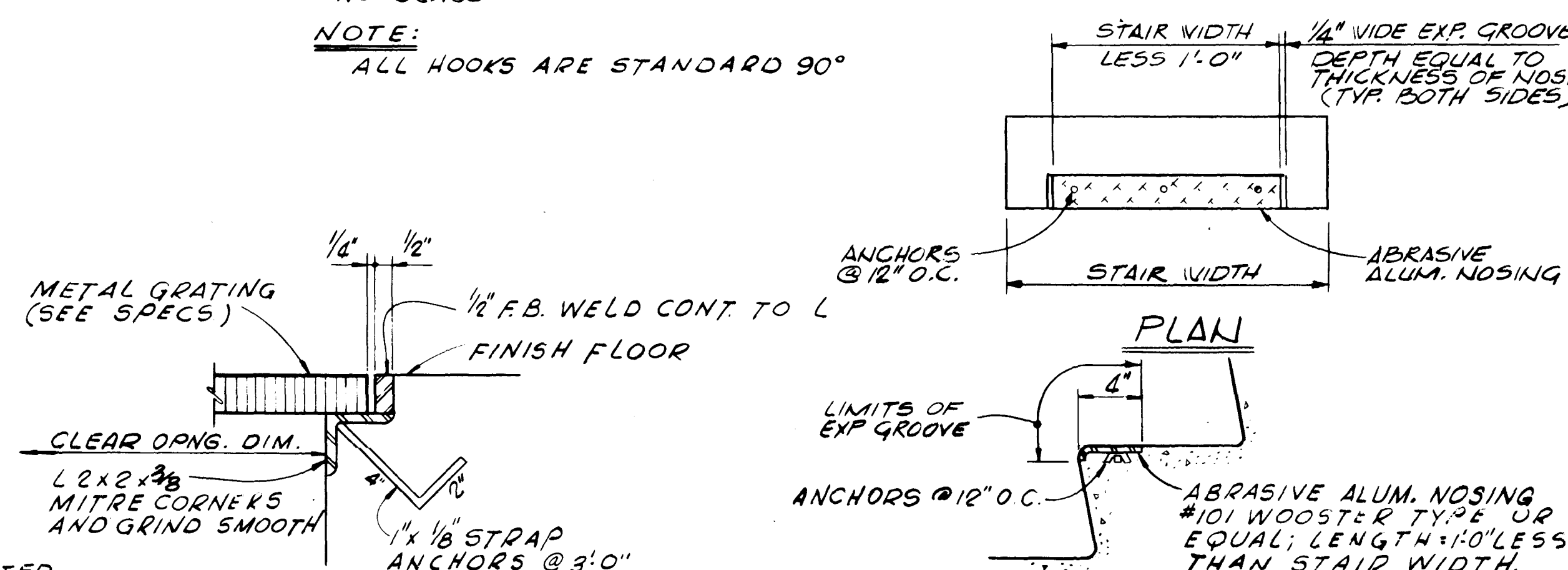
1. CONCRETE FOR SIDE WALKS & FILL SHALL BE CLASS "C" ALL OTHERS SHALL BE CLASS "A" SEE SPECIFICATIONS FOR MIX DESIGN STRENGTH.
2. UNLESS OTHERWISE SHOWN ON DRAWINGS, MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS:

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 FINISH GRADE.



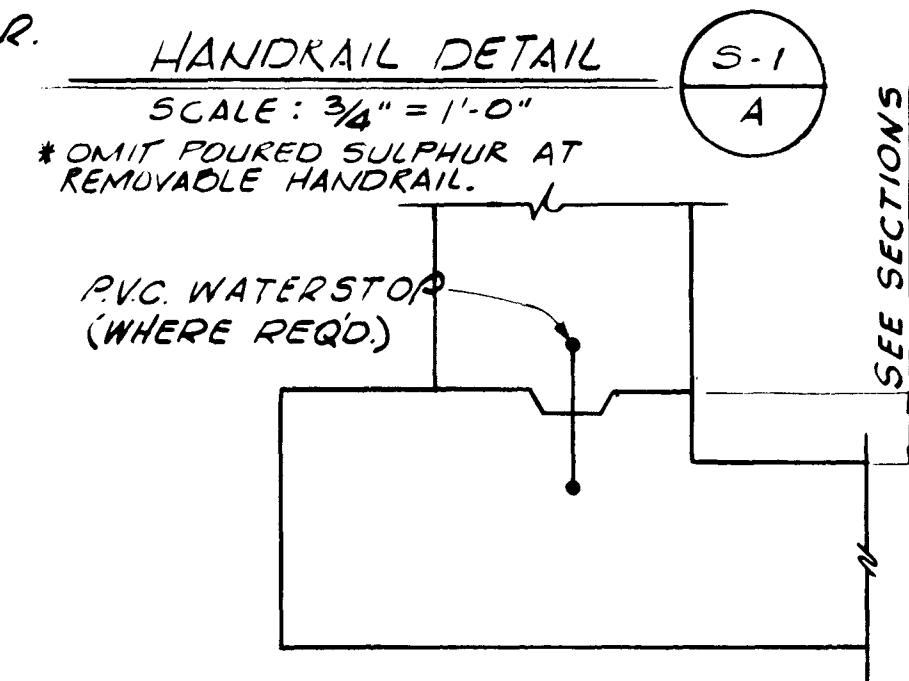
TYPICAL CONCRETE WALL CORNER DETAILS
NO SCALE

NOTE:
ALL HOOKS ARE STANDARD 90°



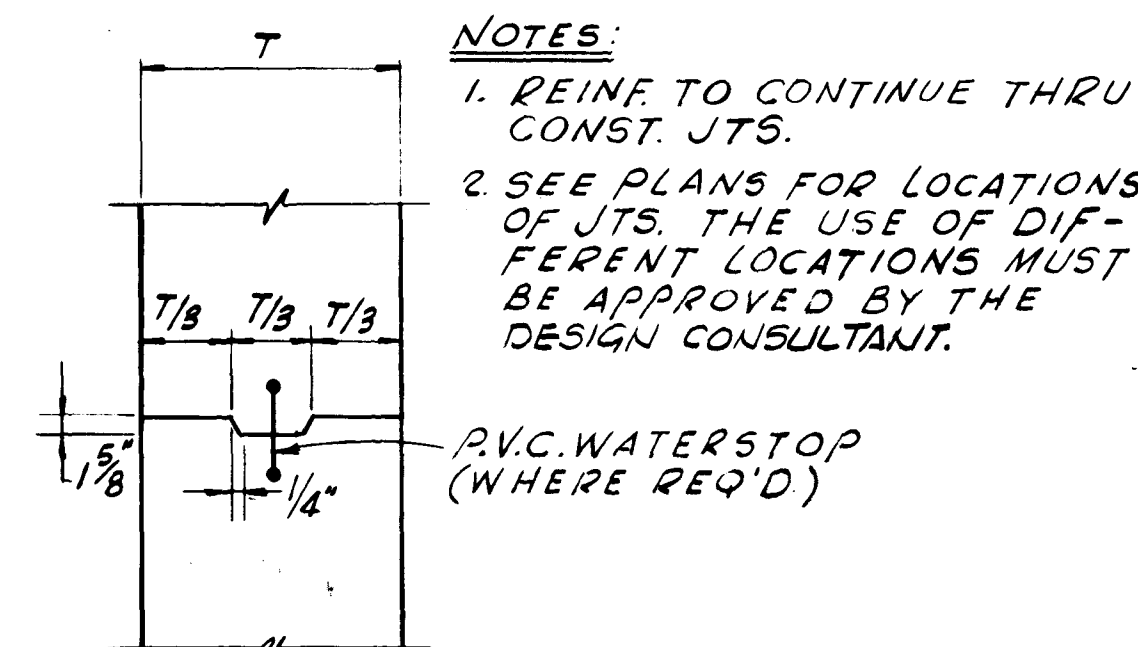
SECTION

NOTE: EXPANSION GROOVE AT EXTERIOR STAIRS ONLY.



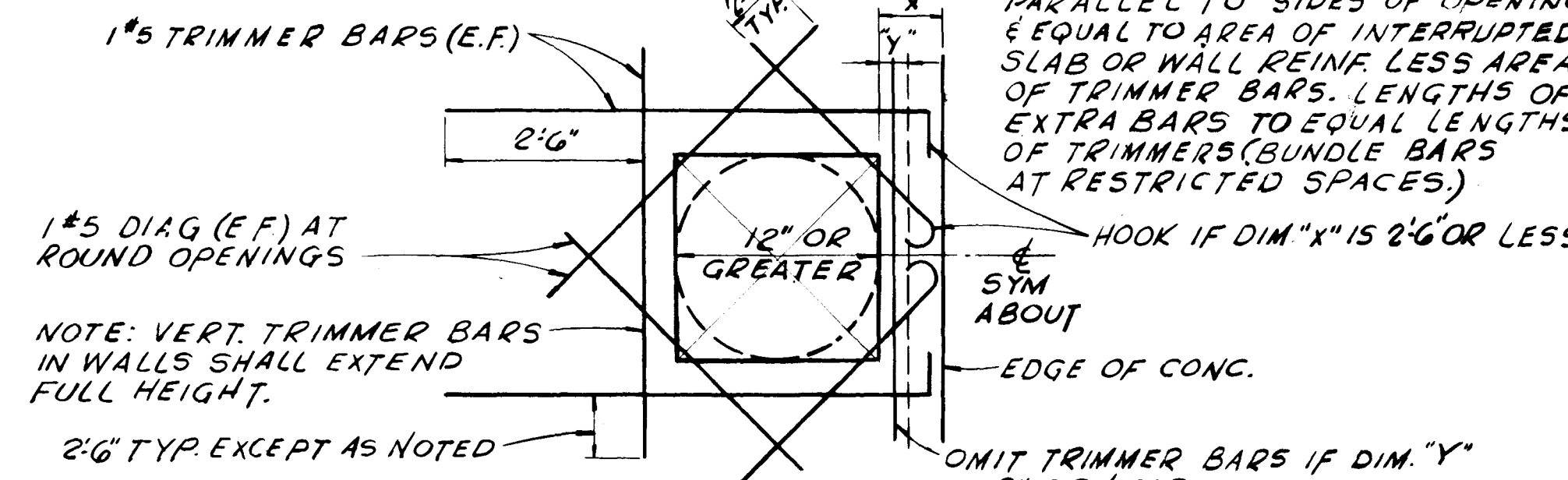
WALL & SLAB

TYPICAL JOINT DETAILS
NO SCALE



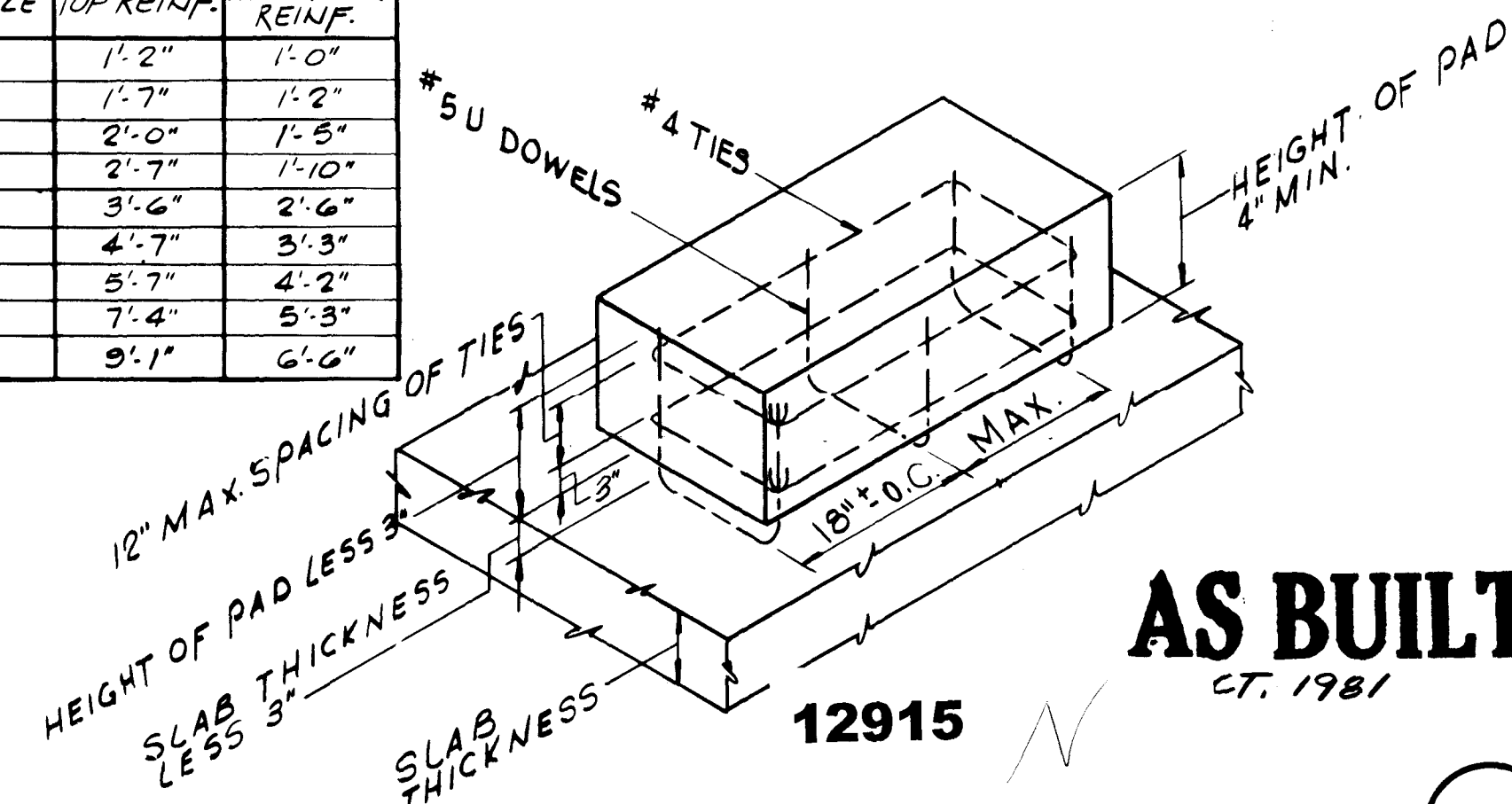
TYPICAL KEY

TYPICAL JOINT DETAILS
NO SCALE



TYPICAL DETAIL~OPENING IN WALL OR SLAB
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'-8"
#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"



TYPICAL EQUIPMENT PAD DETAIL
NO SCALE

										SUBMITTED BY: <i>[Signature]</i>	
										REG. ENGR. FLA. NO. 6847 DATE 11/76	
										FLOOD & ASSOCIATES, INC.	
										APPROVAL	
										RECOMMENDED BY: <i>[Signature]</i>	
NO.	DESCRIPTION				BY	FIRM	DATE	S&P	DATE	PW	DATE
REVISIONS					SUBMITTAL			APPROVAL			
										REG. ENGR. FLA. NO. 11024 DATE 3-22-76	
										SVERDRUP & PARCEL AND ASSOCIATES, INC.	

SUBMITTED BY: [Signature]
REG. ENGR. FLA. NO. 6847 DATE 11/76
FLOOD & ASSOCIATES, INC.
APPROVAL
RECOMMENDED BY: [Signature]
REG. ENGR. FLA. NO. 14824 DATE 3-28-78
SVERDRUP & PARCEL AND ASSOCIATES, INC.

REG. ENGR. FLA. NO. _____ DATE _____
WATER AND SEWER DIVISION
AUTHORIZED BY: *W. H. [Signature]*
REG. ENGR. FLA. NO. *04270* DATE *3/3/58*
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

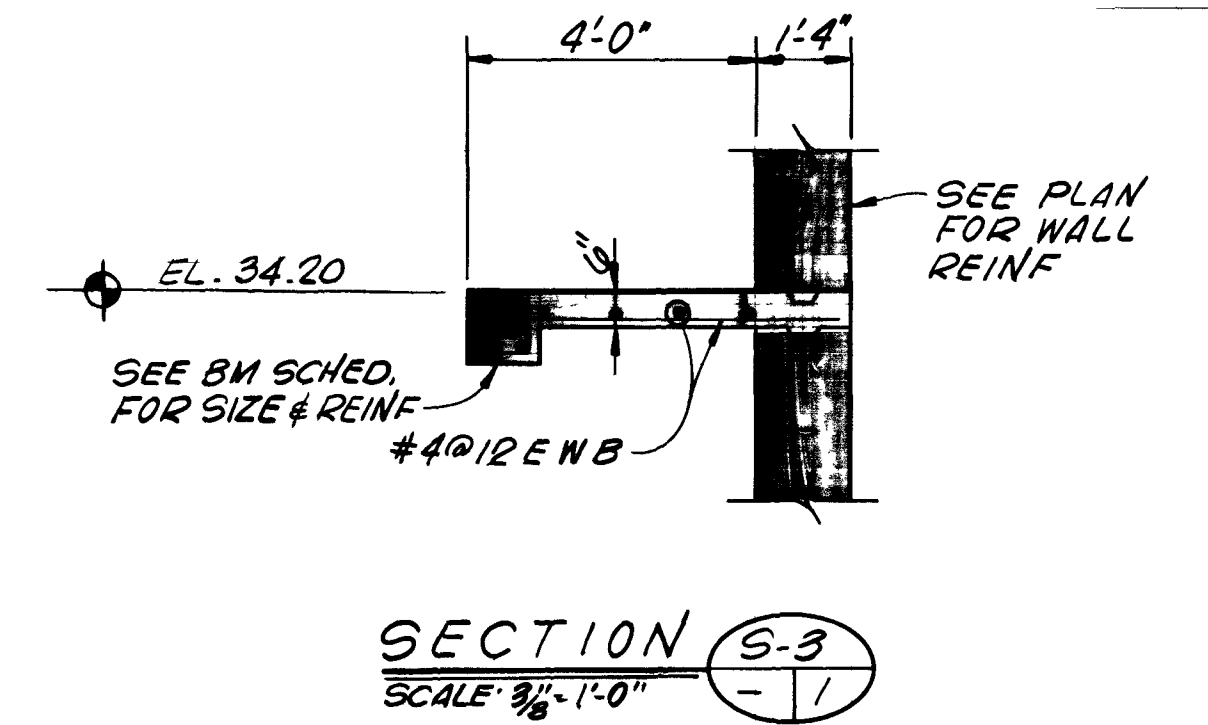
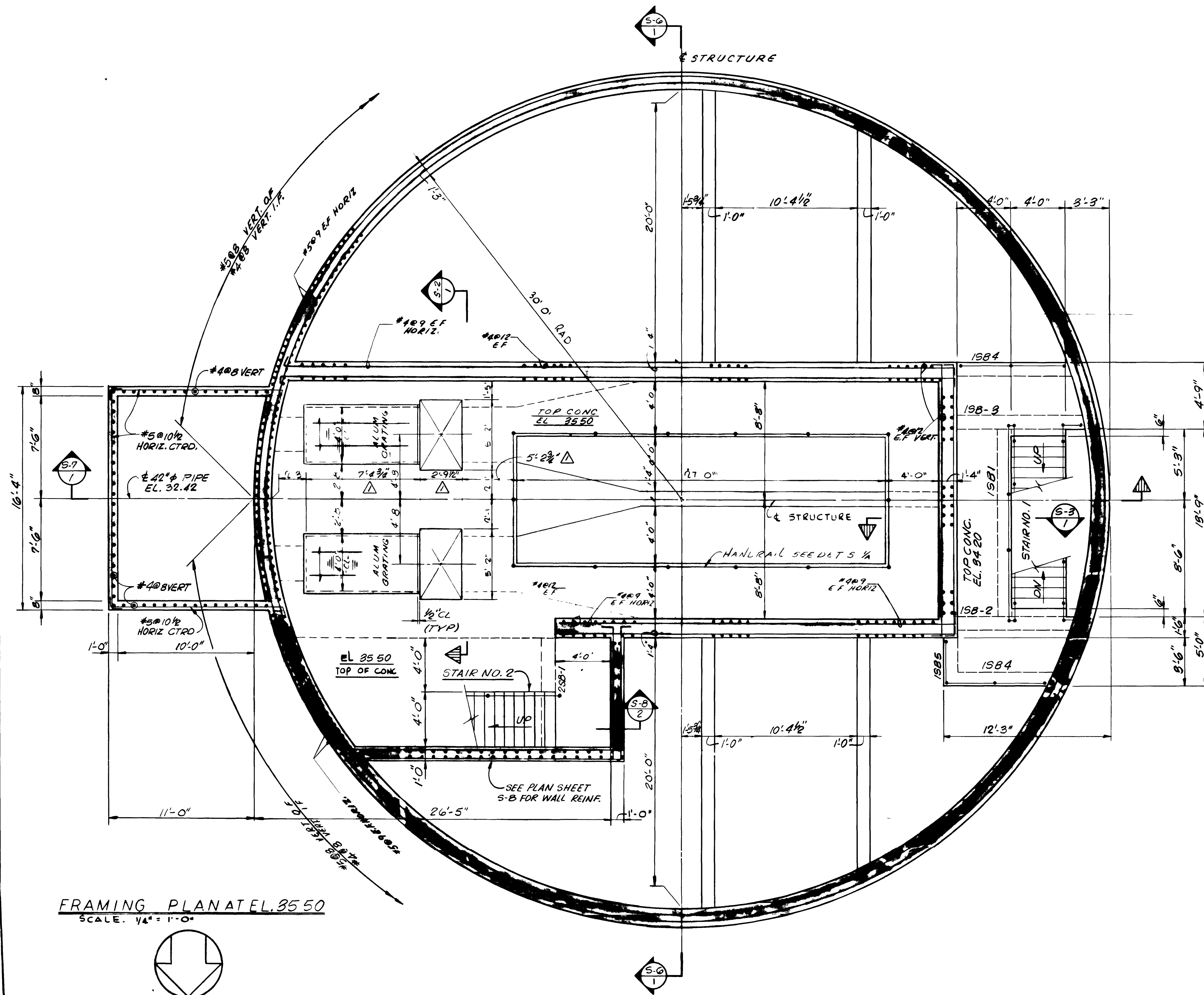
CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
ST. JOHNS BLUFF
MASTER PUMPING STATION

FLOOD & ASSOCIATES, INC.
DESIGN CONSULTANT

SVERDRUP & PARCEL AND ASSOCIATES, Inc. -- GENERAL CONSULTANT		
DETAILED BY: S.E.M.	SCALE AS SHOWN	DATE SEPT. 1976
CHECKED BY: L.T.H.		

GENERAL NOTES & TYPICAL DETAILS

CONTR NO	JS-40.7	PROJ NO	7316	SHEET NO	21	OF	42
----------	---------	---------	------	----------	----	----	----



FRAMING PLAN AT ELEV. 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.
APPROVAL
RECOMMENDED BY *Clayton J. Smith*
REG ENGR FLA NO. **14804** DATE **3-28-78**
SVERDRUP & PARCEL AND ASSOCIATES, INC.

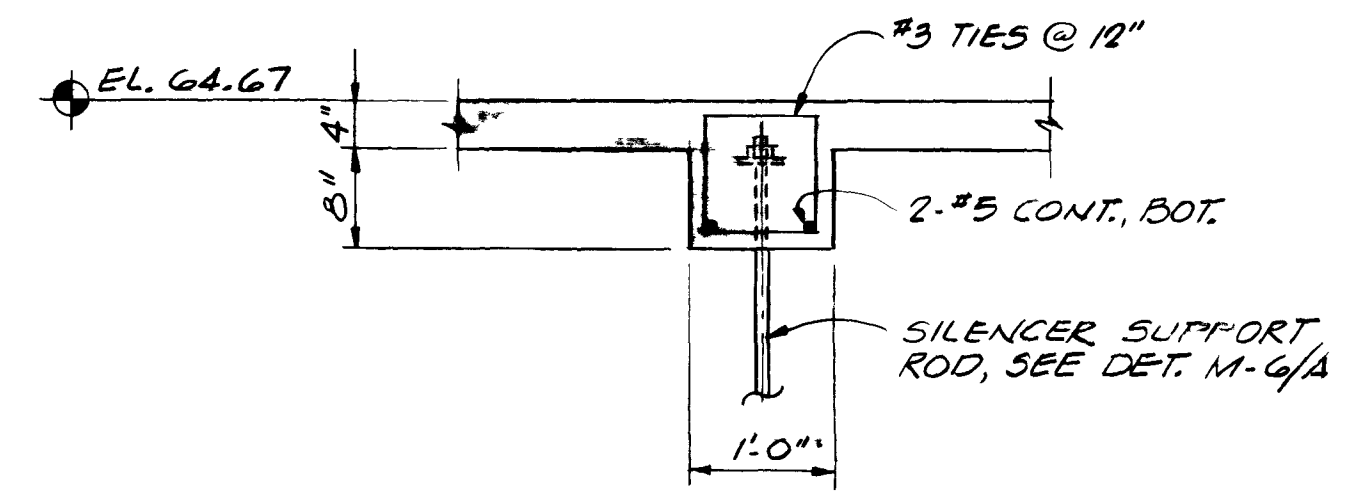
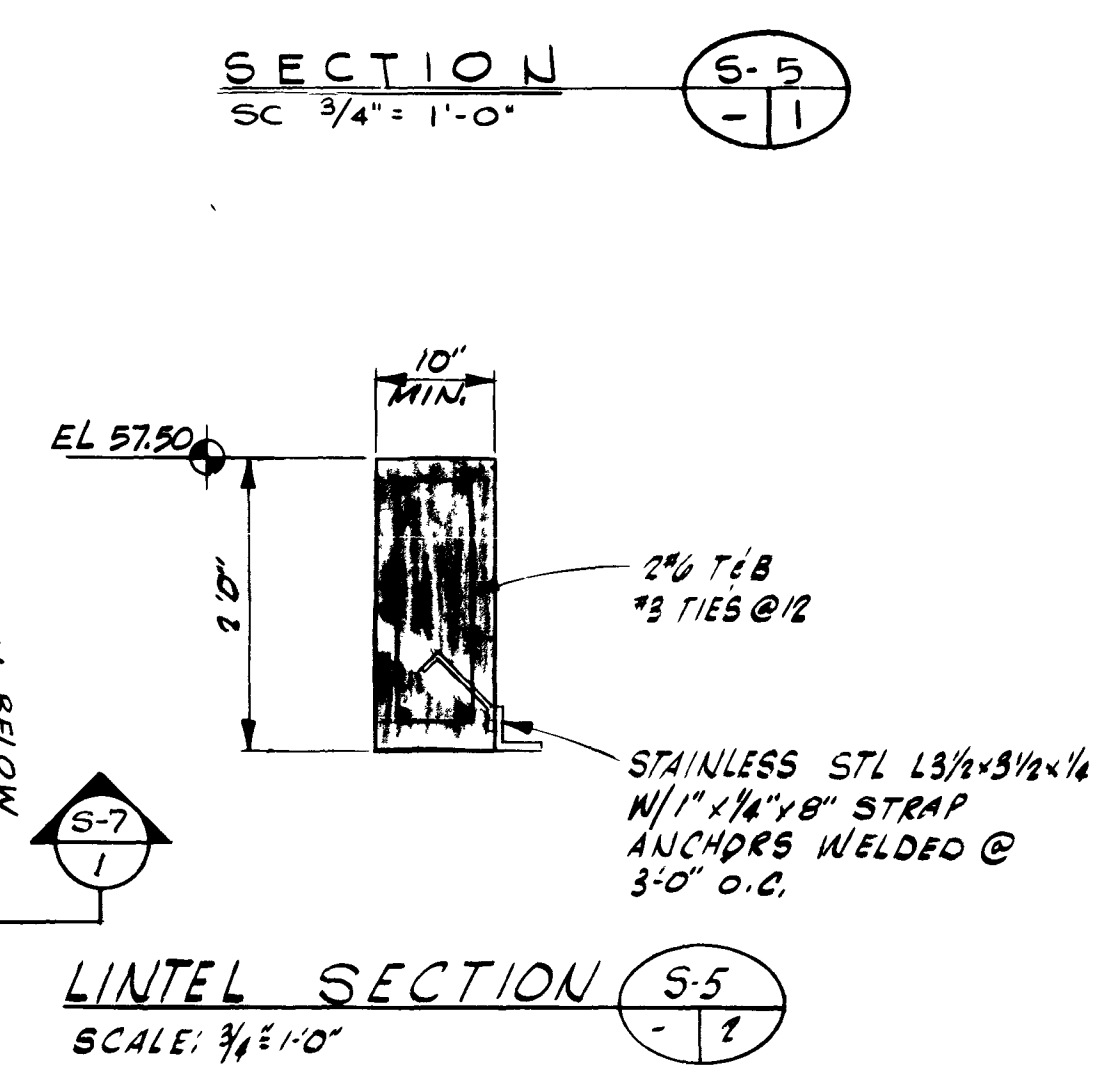
APPROVED BY
REG ENGR FLA NO. **14270** DATE **10/78**
OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE, FLORIDA

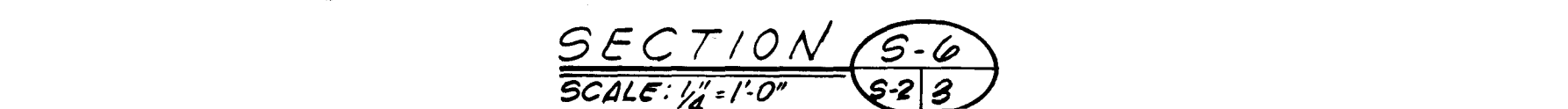
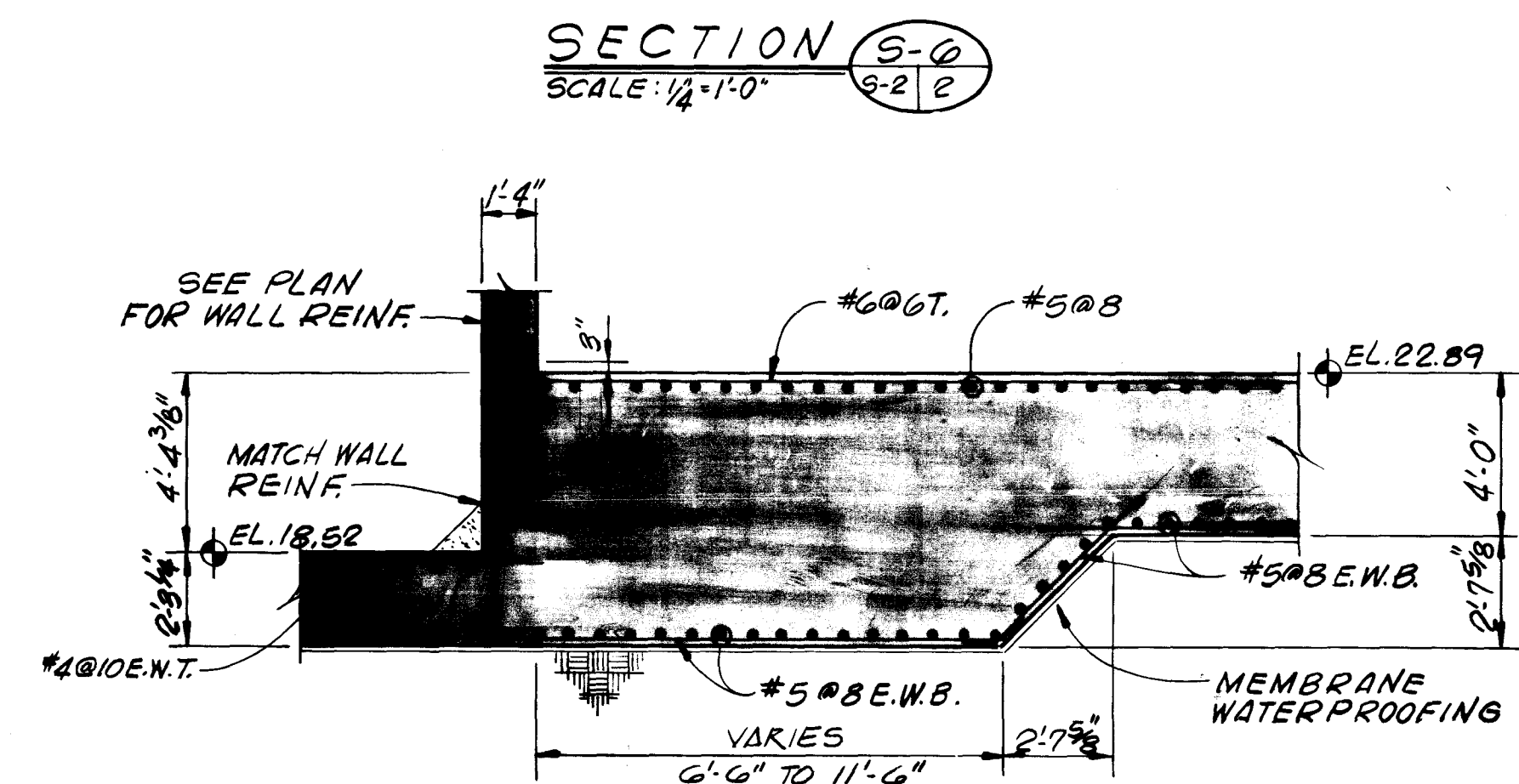
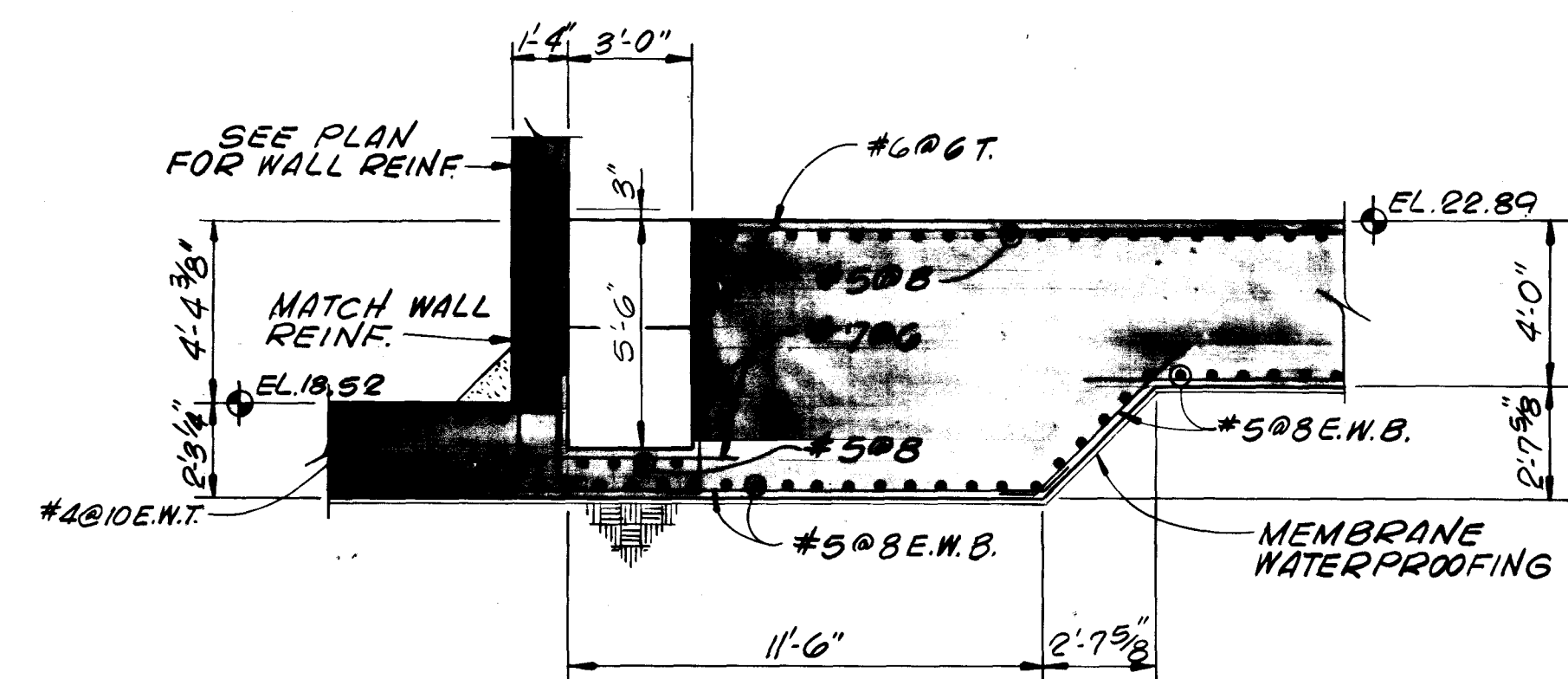
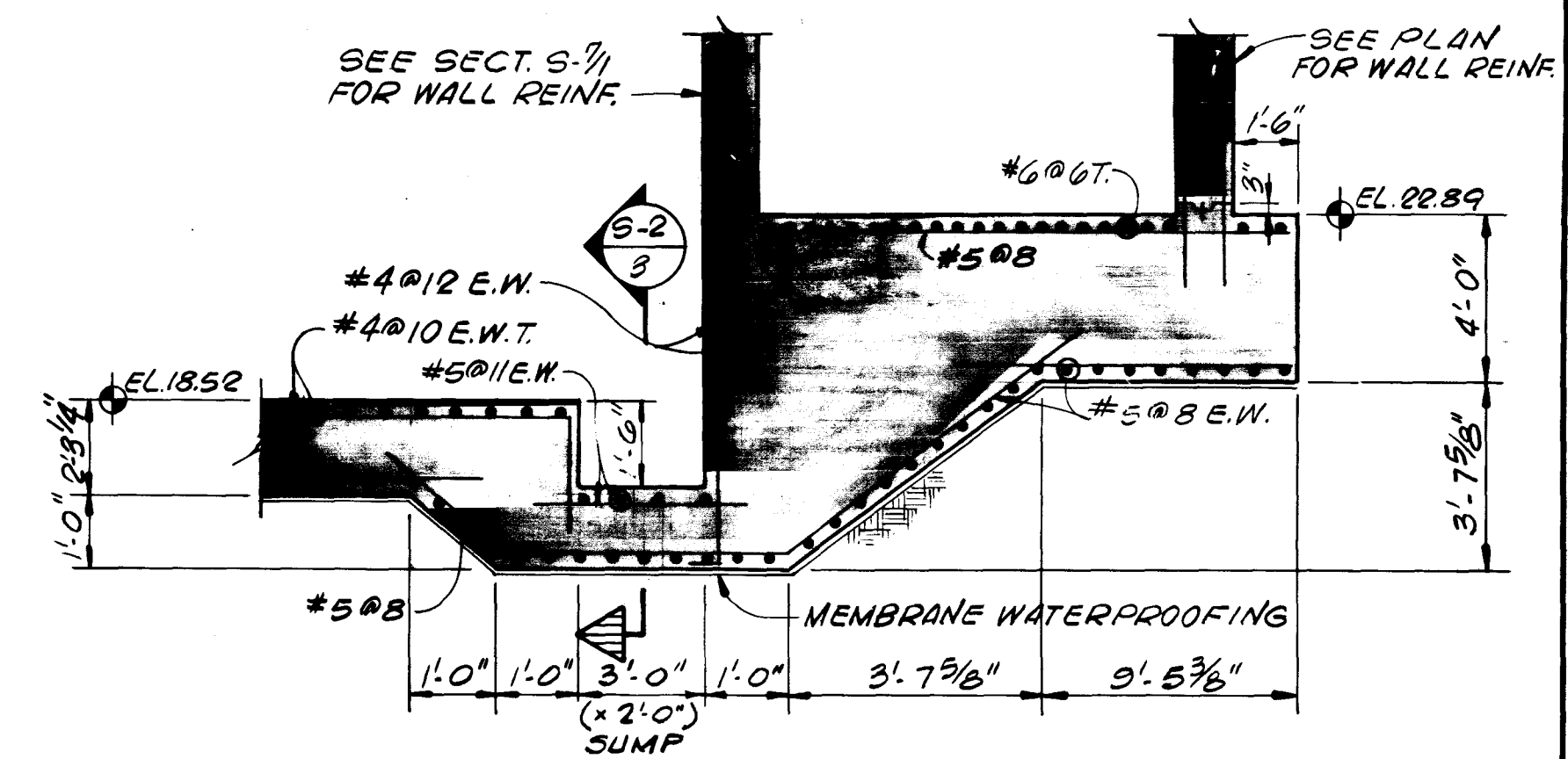
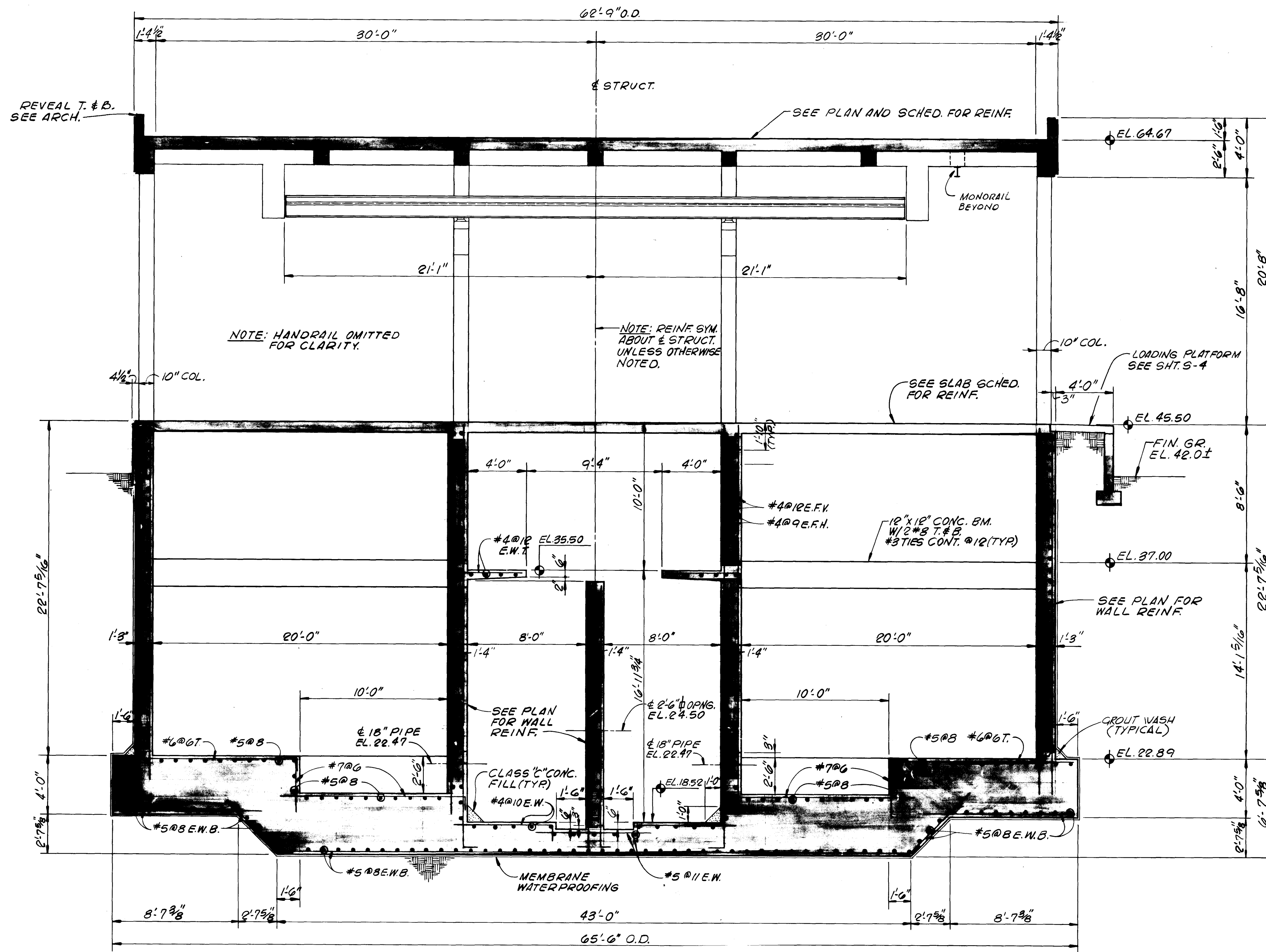
CITY OF JACKSONVILLE, FLORIDA
SEWERAGE IMPROVEMENT PROGRAM
ST JOHNS BLUFF
MASTER PUMPING STATION

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**

[illegible]



AS BUILT

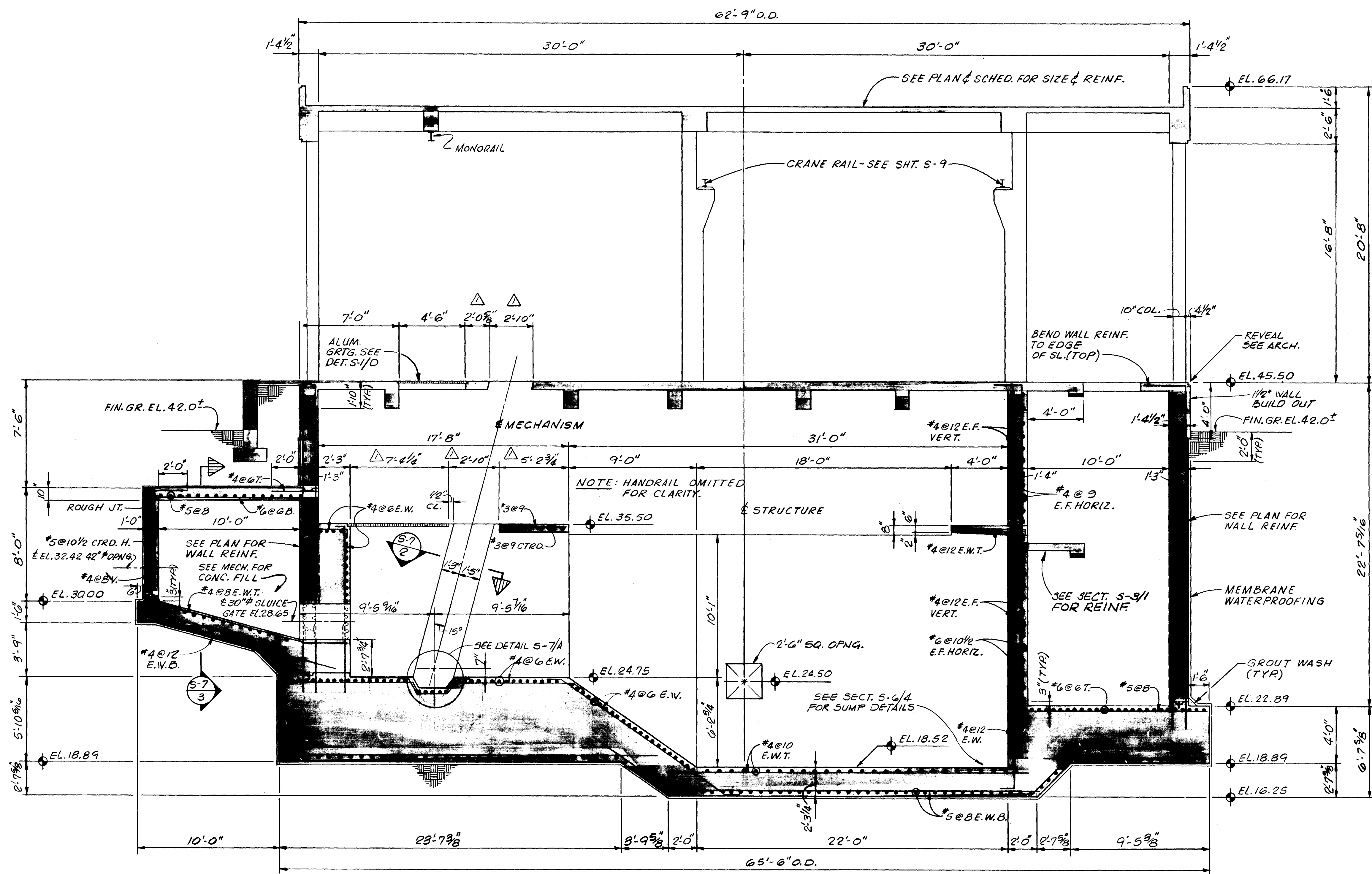
OCT. 1981

(S-6

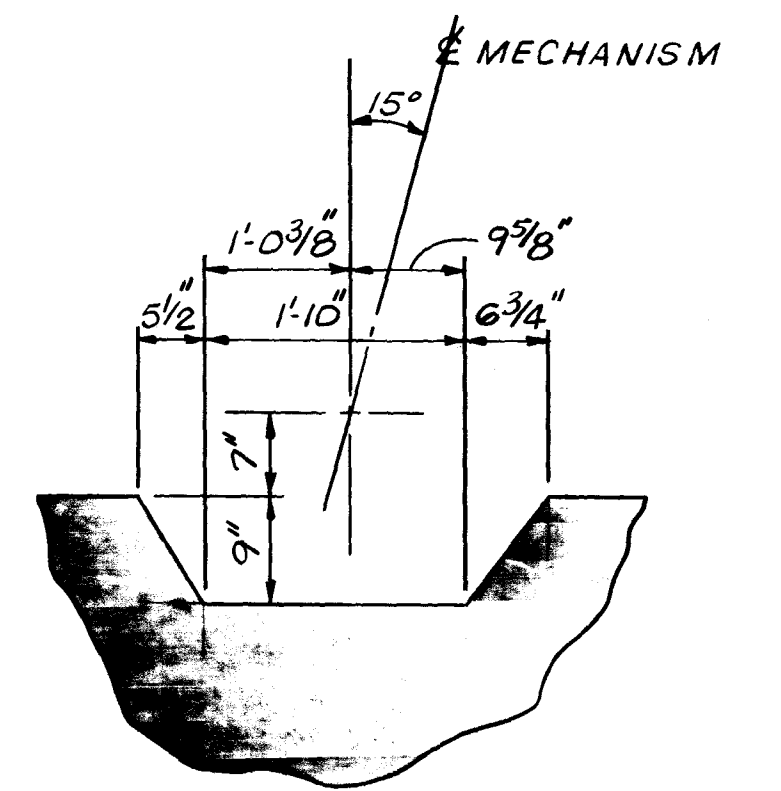
12920

SECTIONS

										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 AUTHORIZED BY: <u>D. H. H.</u> REG. ENGR. FLA. NO. <u>19270</u> DATE <u>9/26/76</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 SVERDRUP & PARCEL AND ASSOCIATES, INC. -- GENERAL CONSULTANT																				SECTIONS																			
NO. _____ DESCRIPTION _____ REVISIONS _____										BY _____ FIRM _____ DATE _____ S&P _____ DATE _____ PW _____ DATE _____ SUBMITTAL _____ APPROVAL _____										APPROVAL RECOMMENDED BY: <u>James S. English</u> REG. ENGR. FLA. NO. <u>6847</u> DATE <u>9/76</u> FLOOD & ASSOCIATES, INC.										AUTHORIZED BY: <u>D. H. H.</u> REG. ENGR. FLA. NO. <u>19270</u> DATE <u>9/26/76</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										DETAILED BY: <u>R.N.S.</u> SCALE <u>AS SHOWN</u> DATE <u>SEPT. 1976</u> CHECKED BY: <u>L.T.H.</u>																				CONTR. NO. <u>JS-40.7</u> PROJ. NO. <u>7316</u> SHEET NO. <u>26</u> OF <u>40</u>																													



SECTION S-7
SCALE: 1/4" = 1'-0" S-2 |

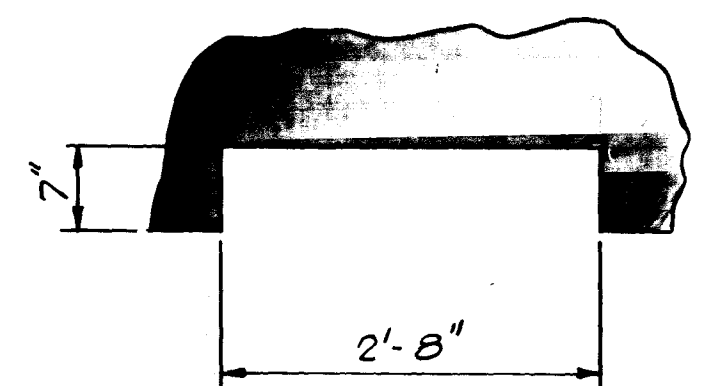


DETAIL

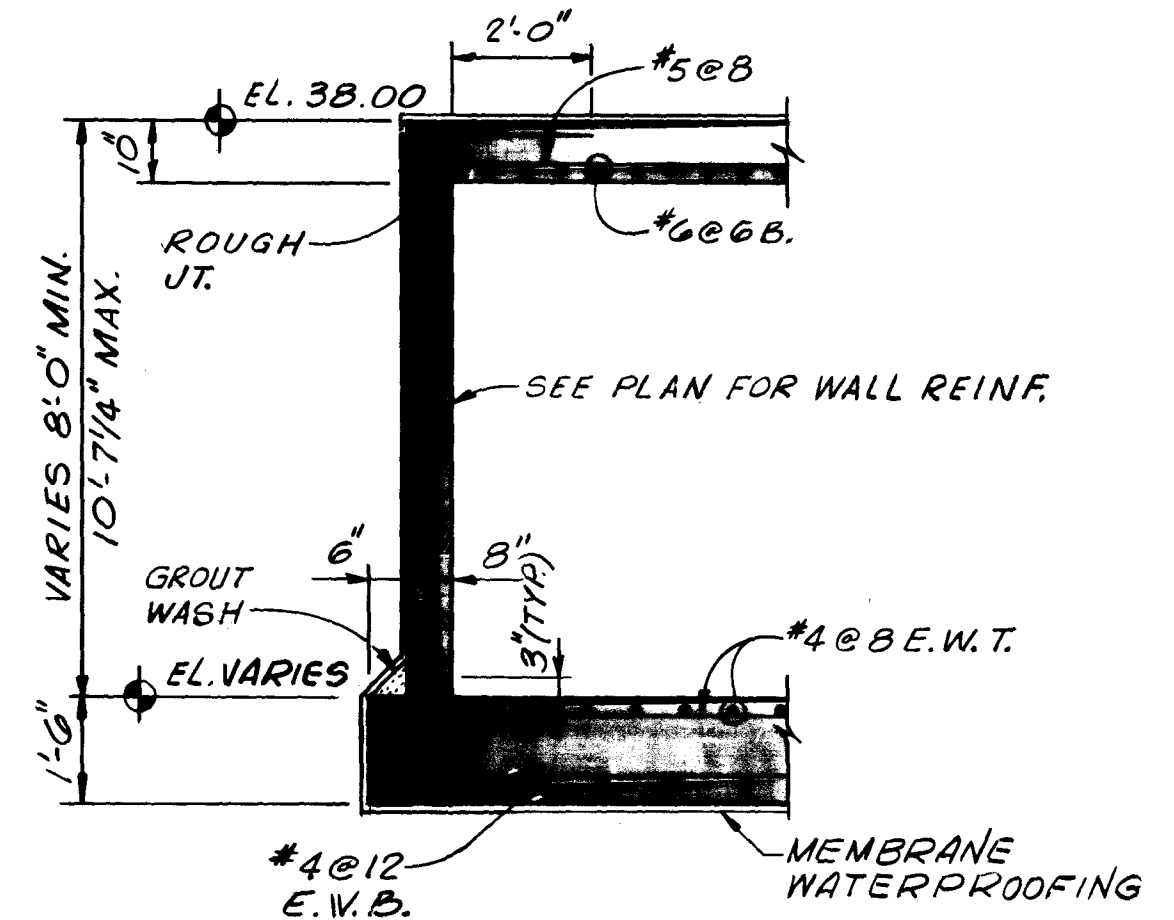
SCALE: $\frac{3}{4}" = 1'-0"$

S-7

- | A



SECTION 5-7 SCREEN RECESS
SCALE: 3/4" = 1'-0"



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

AS BUILT

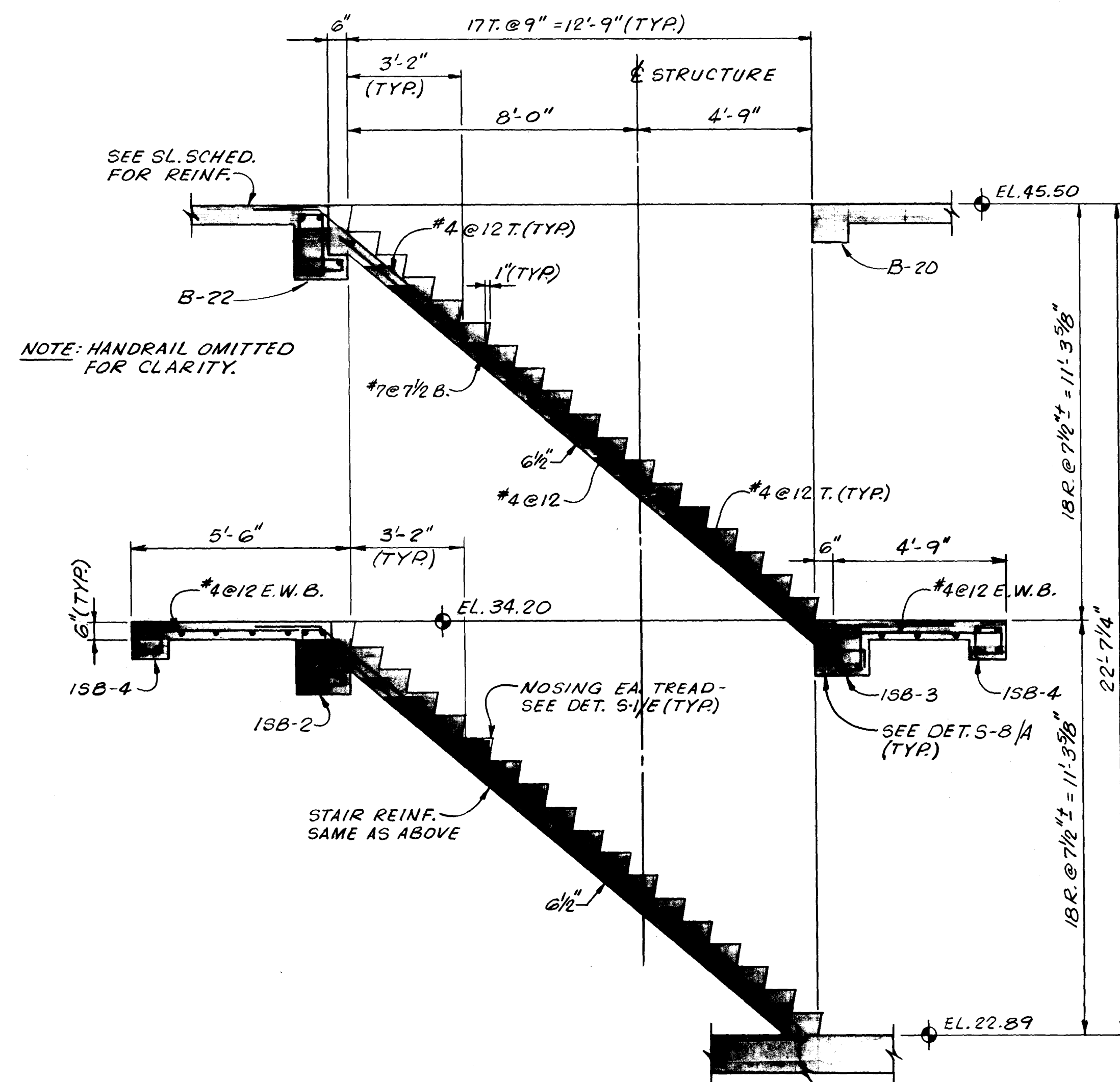
OCT. 1981

12921

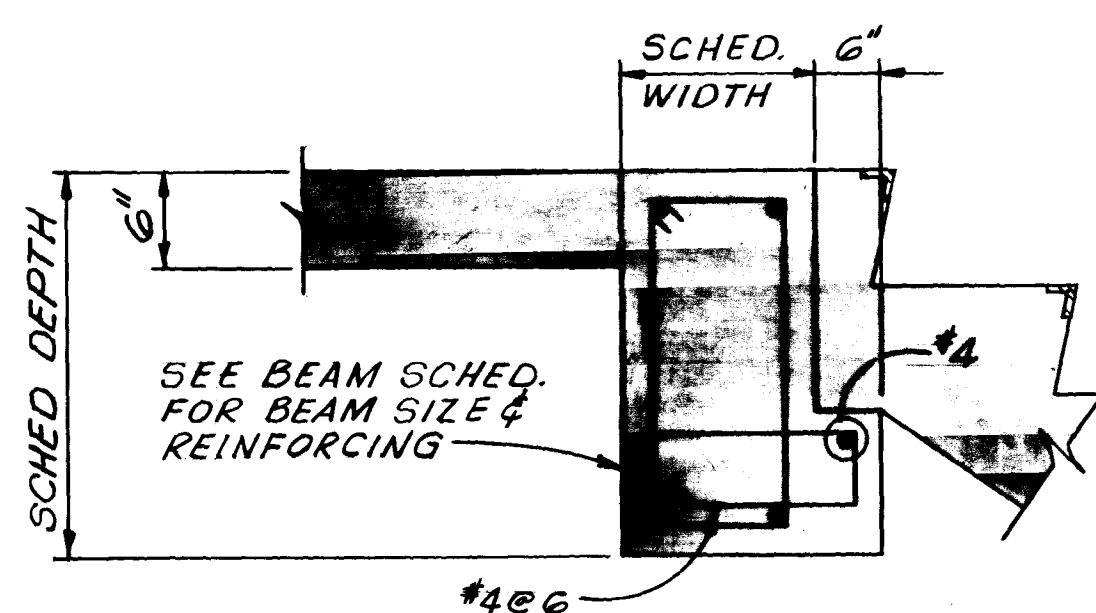
-7)

SECTIONS

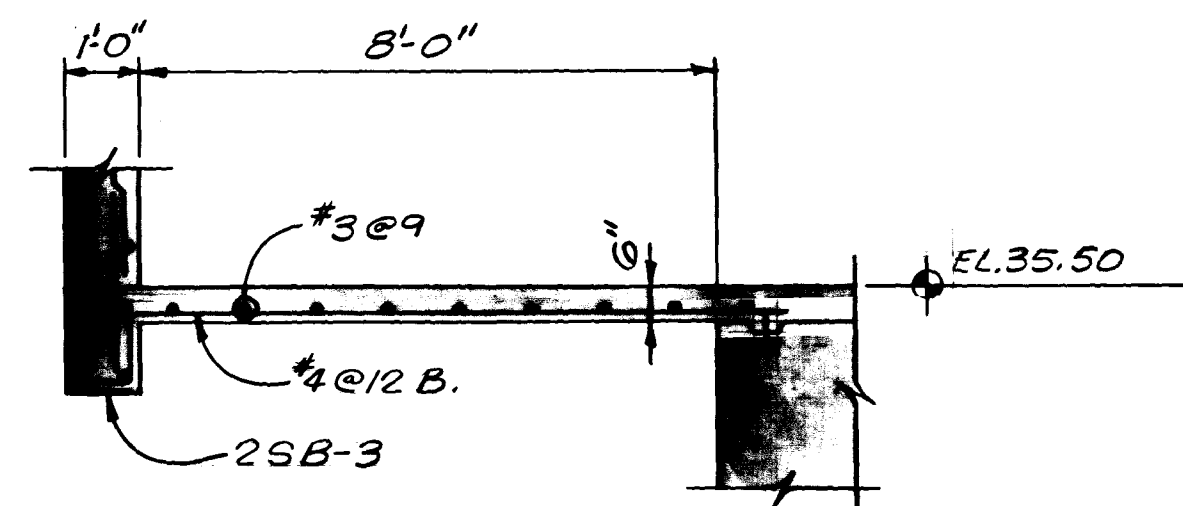
[illegible]



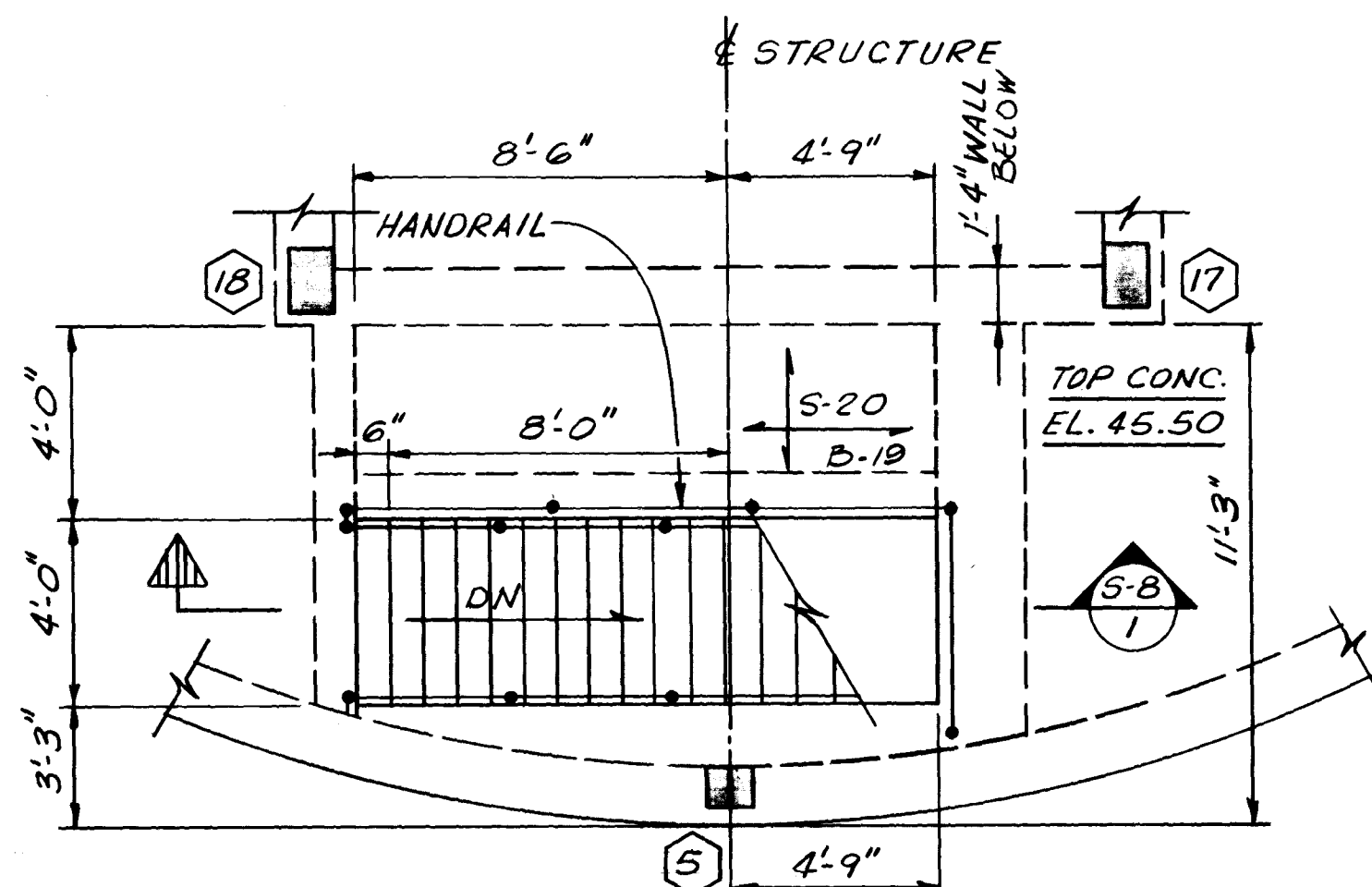
SECTION S-8 STAIR NO.1
SCALE: 3/8"=1'-0"



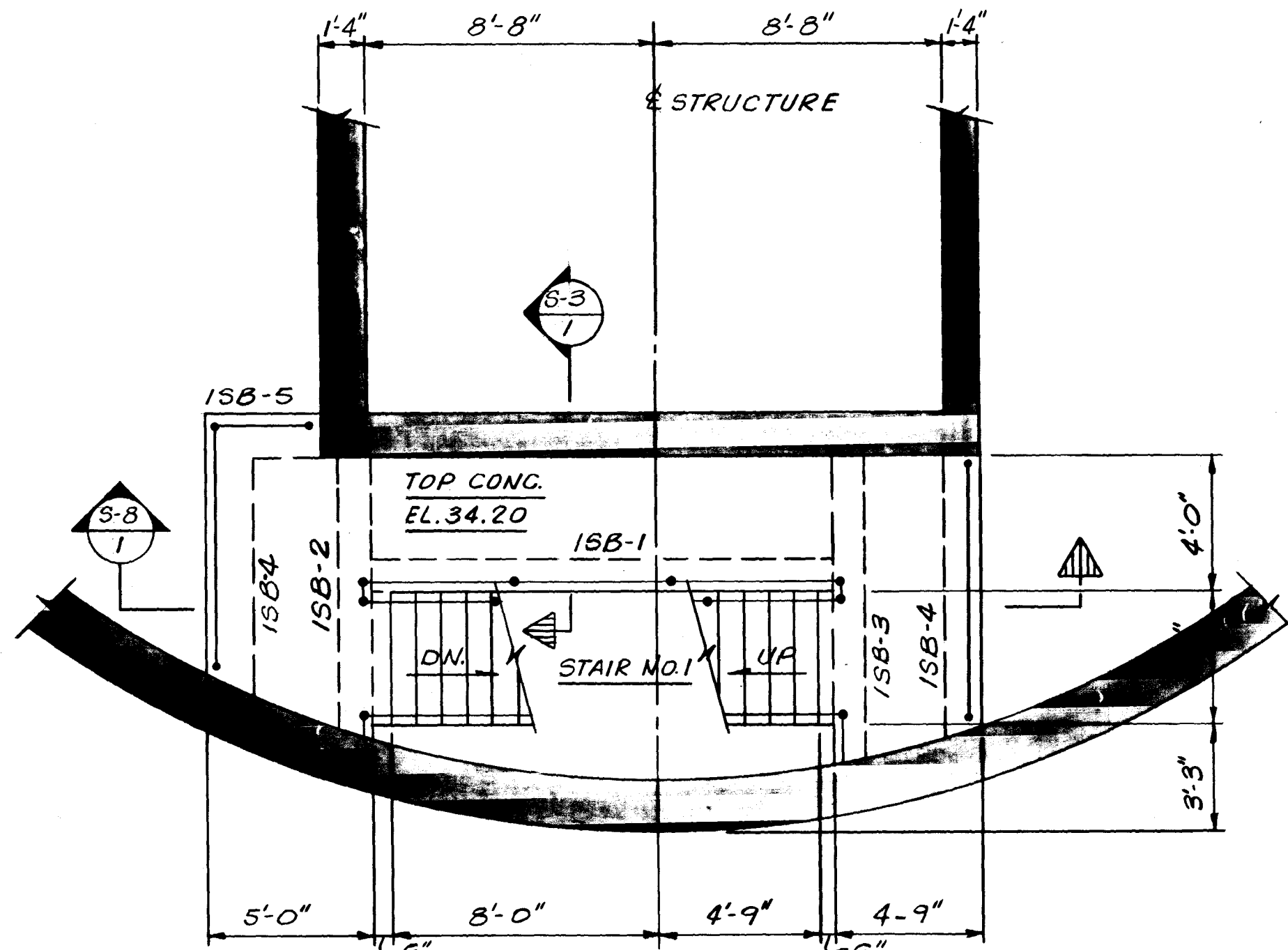
DETAIL S-8 A
SCALE: 1\"/>



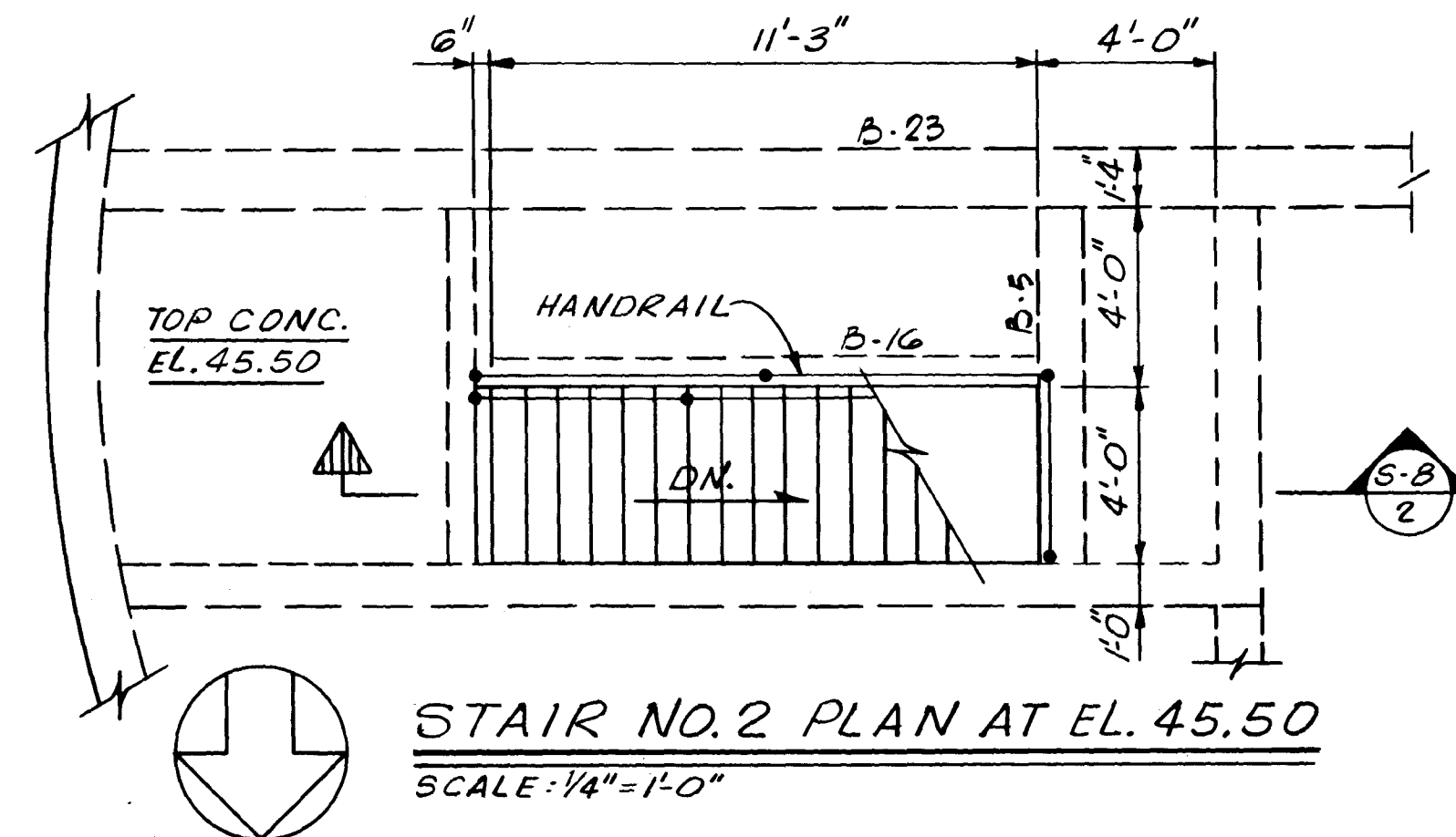
SECTION S-8 3
SCALE: 3/8"=1'-0"



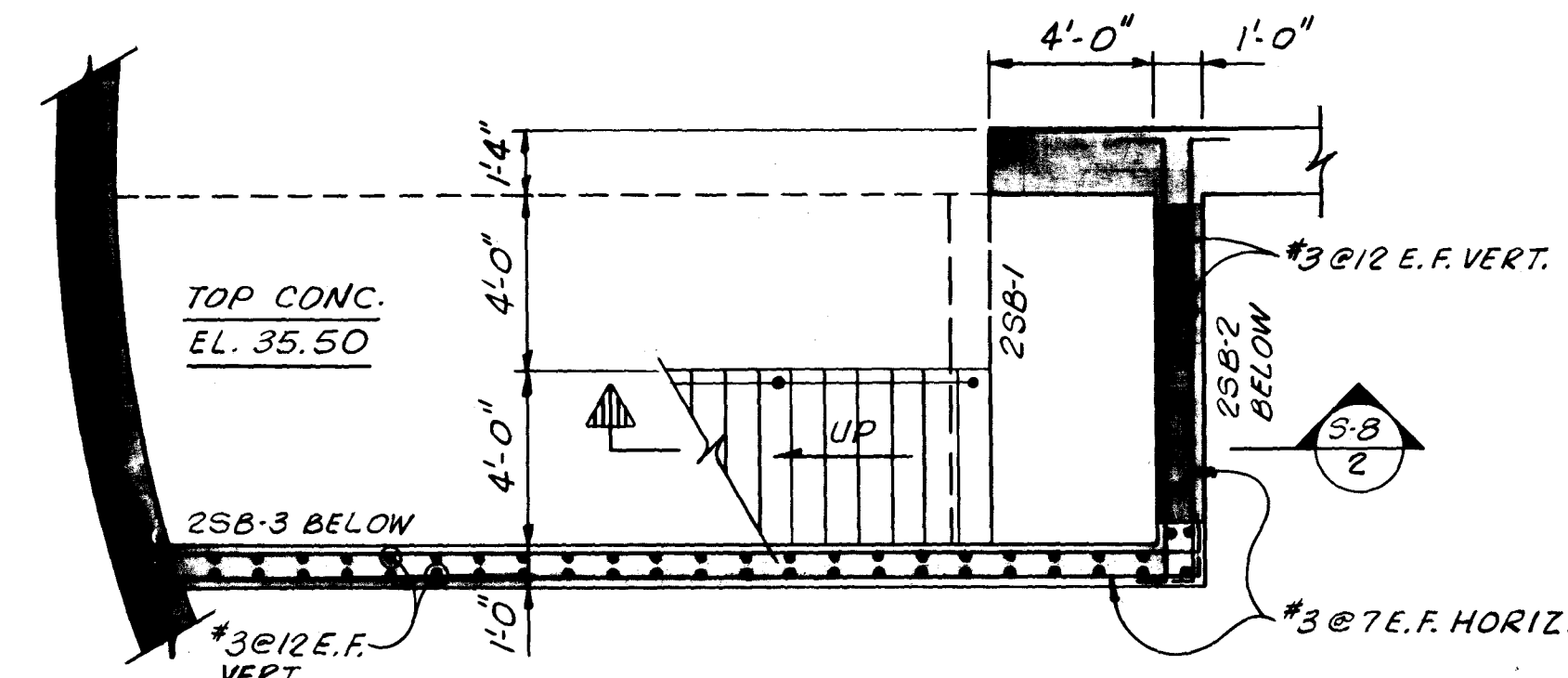
STAIR NO.1
PLAN AT EL. 45.50
SCALE: 1/4"=1'-0"



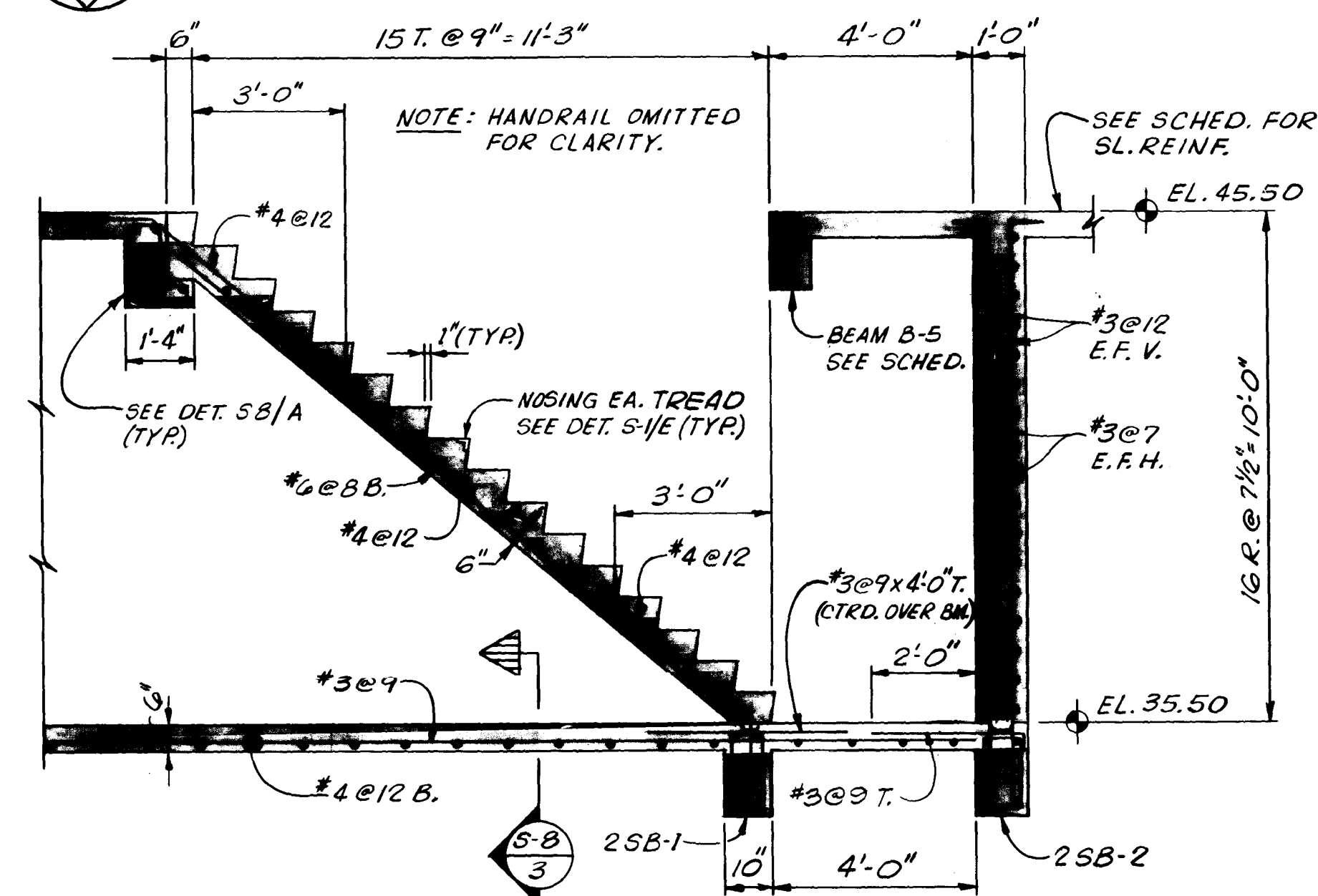
STAIR NO.1
PLAN AT EL. 34.20
SCALE: 1/4"=1'-0"



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



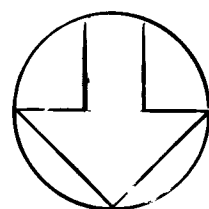
STAIR NO.2 PLAN AT EL. 35.50
SCALE: 1/4"=1'-0"



SECTION S-8 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: _____ REG. ENGR. FLA. NO. _____ DATE _____ WATER AND SEWER DIVISION AUTHORIZED BY: <u>W. W. 13-8</u> REG. ENGR. FLA. NO. <u>3150</u> DATE <u>2/3/78</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										CITY OF JACKSONVILLE, FLORIDA										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT										STAIR PLANS & SECTIONS									
										APPROVAL RECOMMENDED BY: <u>James S. English</u> REG. ENGR. FLA. NO. <u>11821</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																			
NO. DESCRIPTION										BY FIRM DATE S&P DATE PW DATE																				DETAILED BY: <u>J.A.B.</u> SCALE <u>AS SHOWN</u> DATE <u>SEPT. 1976</u>										CONTR. NO. <u>JS-40.7</u>																			
REVISIONS										SUBMITTAL APPROVAL																				CHECKED BY: <u>L.T.H.</u>										PROJ. NO. <u>7316</u> SHEET NO. <u>28</u> OF <u>42</u>																			



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



1 FABRICATE CRANE BEAMS SO THAT C/DX/5.3 $\frac{1}{2}$ W12 X 16.5 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 & 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
OCT 1981

- 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

S-9

										SUBMITTED BY <u>James J. Langlois</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>DA 12-18</u> REG ENGR FLA NO <u>4270</u> DATE <u>9/30/78</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>T A H</u> SCALE <u>AS SHOWN</u> DATE <u>SEPT. 1976</u> CHECKED BY <u>L T H</u>										CRANE RAIL SYSTEM COLUMN SCHEDULE CONTR NO <u>JS-40.7</u> PROJ NO <u>7316</u> SHEET NO <u>29</u> OF <u>42</u>									
NO DESCRIPTION BY FIRM DATE S&P DATE PW DATE REVISIONS SUBMITTAL APPROVAL																																																											

[illegible]

S L A B S C H E D U L E														
MARK	DEPTH	REINFORCING												REMARKS
		NORTH-SOUTH DIRECTION						EAST - WEST DIRECTION						
		A	B	C	D	E	F	A	B	C	D	E	F	
				GROUND FLOOR SLABS										
S-1	6	#5@10	#3@9	#3@9				#5@8	#3@9				#5@8	N-S "B" BARS @ OPNG ONLY
S-2	6	#4@12		#3@9				#5@8					#5@8	
S-3	6	#3@9		#3@9				#5@8		#4@9				E-W "C" BARS @ OPNG ONLY
S-4	6	#3@9		#3@9				#3@9			#4@12			
S-5	6	#3@9		#3@9				#5@8	#4@9					E-W "B" BARS @ OPNG ONLY
S-6	6	#3@9	#3@9	#3@9				#4@9			#4@12			N-S "B" BARS @ STAIR OPNG ONLY
S-7	6	#3@9	#4@9	#4@9				#3@9			#3@9			N-S "B" & "C" BARS EXTEND TO OPNG
S-8	6	#3@9				#3@9		#4@9			#3@9			
S-9	6	#3@9				#3@9		#5@8	#3@9				#5@9	E-W "B" BARS @ OPNG ONLY
S-10	6	#3@9				#3@9		#3@9						
S-11	6	#3@9				#3@9		#3@9						
S-12	6	#3@9	#3@9	#3@9		#3@9		#3@9				#4@12		N-S "C" BARS @ OPNG ONLY
S-13	6	#3@9			#4@12			#3@9						OMIT E BARS
S-14	6	#3@9			#3@9			#3@9			#4@12			
S-15	6	#3@9	#3@9			#3@9		#5@8		#4@9				E-W "C" BARS @ OPNG ONLY
S-16	6	#3@9	#3@9			#3@9		#5@8	#4@9					E-W "B" BARS @ OPNG ONLY
S-17	6	#3@9	#3@9	#3@9		#3@9		#3@9			#4@12			N-S "C" BARS @ STAIR OPNG ONLY
S-18	6	#4@12	#3@9	#3@9				#4@12	#3@9			#5@9		N-S "C" BARS @ STAIR OPNG ONLY
S-19	6	#3@9	#3@9					#3@9			#4@12			
S-20	6	#3@9				#3@9		#3@9			#4@12			
S-21	6	#4@12			#3@9			#3@9				#5@8		
S-22	6	#3@9						#3@9				#5@8		

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.

A hand-drawn cross-sectional diagram of a masonry wall. On the left, a vertical line represents the "BLOCK WALL". To its right, a vertical "3" x 3/8" BENT ALUM R" rail is shown. The rail is bent at a 90-degree angle at its top. A "5/8" BOLT IN MASONRY ANCHOR" is shown passing through the wall and the rail. The bolt is positioned 3 inches from the left face of the wall. The distance from the top of the wall to the bend in the rail is marked as 8 inches. The bottom of the rail is labeled "CONT 3" x 3/8" ALUM R RAIL".

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

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

12924

AS BUILT

OCT. 1981

S-10

BEAM & SLAB SCHEDULES

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

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 LTH	SCALE	AS SHOWN	DATE	SEPT. 1976
-------------	------------	-------	----------	------	------------

SUBMITTED BY James S. English
REG ENGRA FLA NO 6847 DATE 9/76

FLOOD & ASSOCIATES INC
APPROVAL *LE*

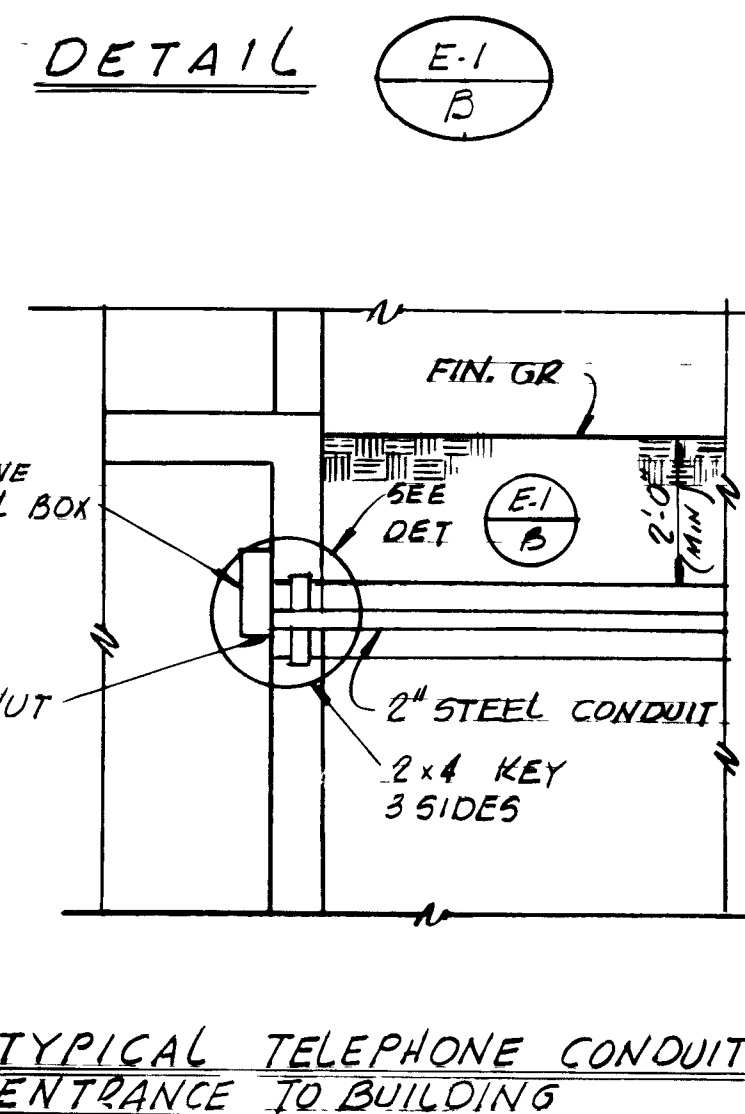
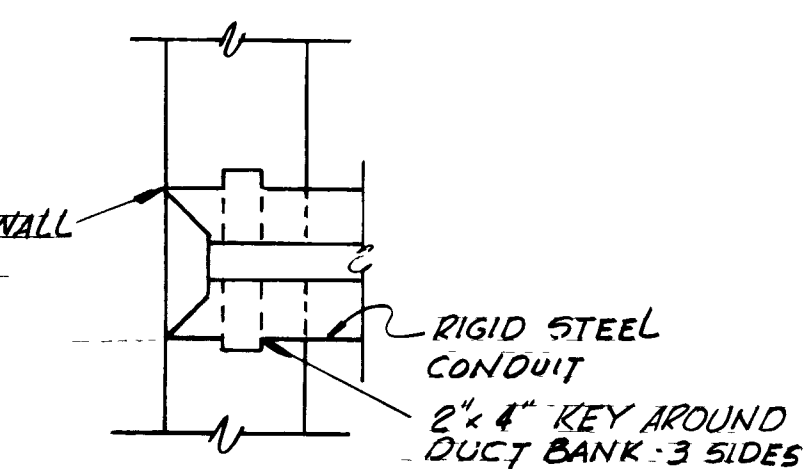
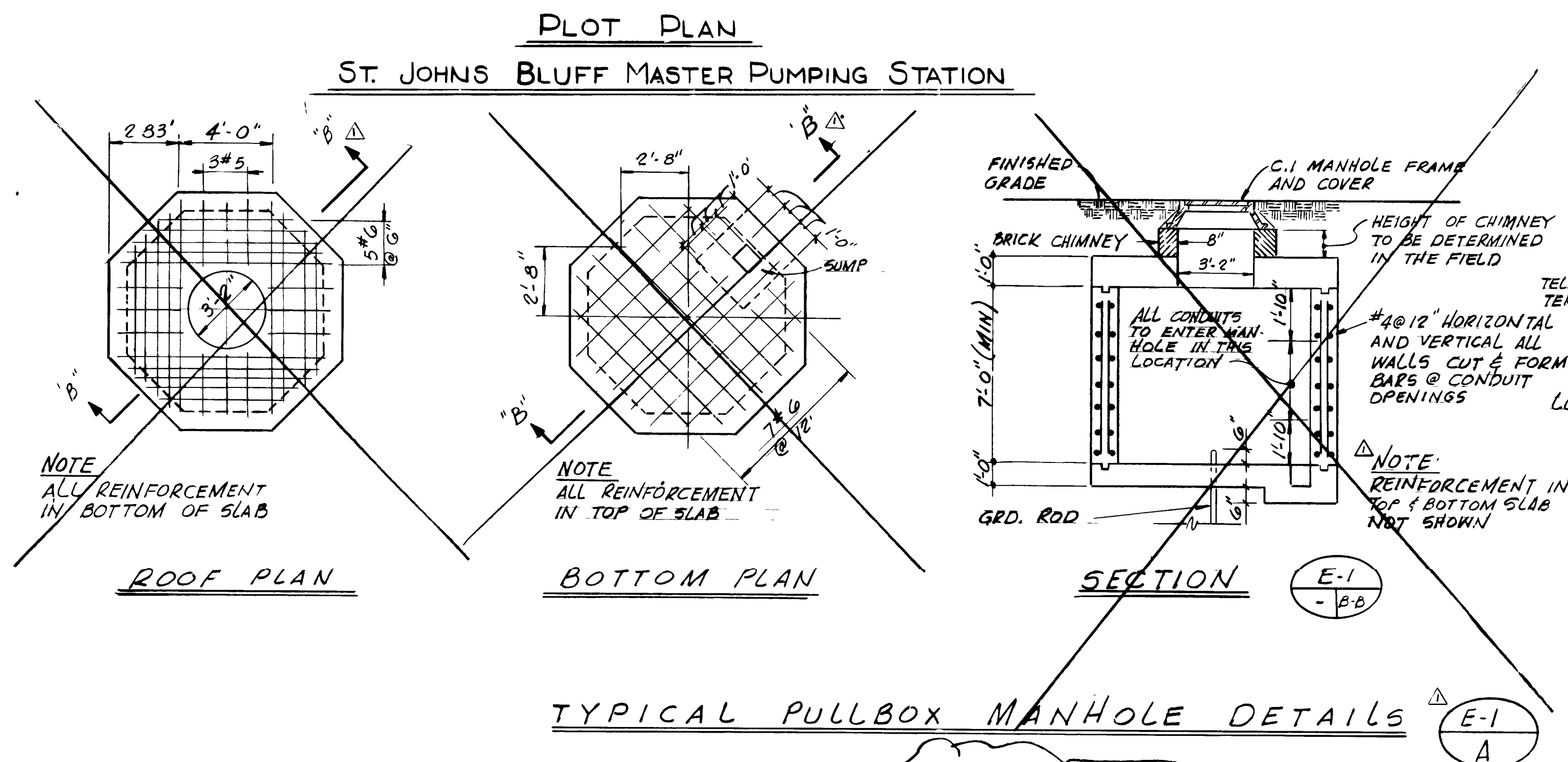
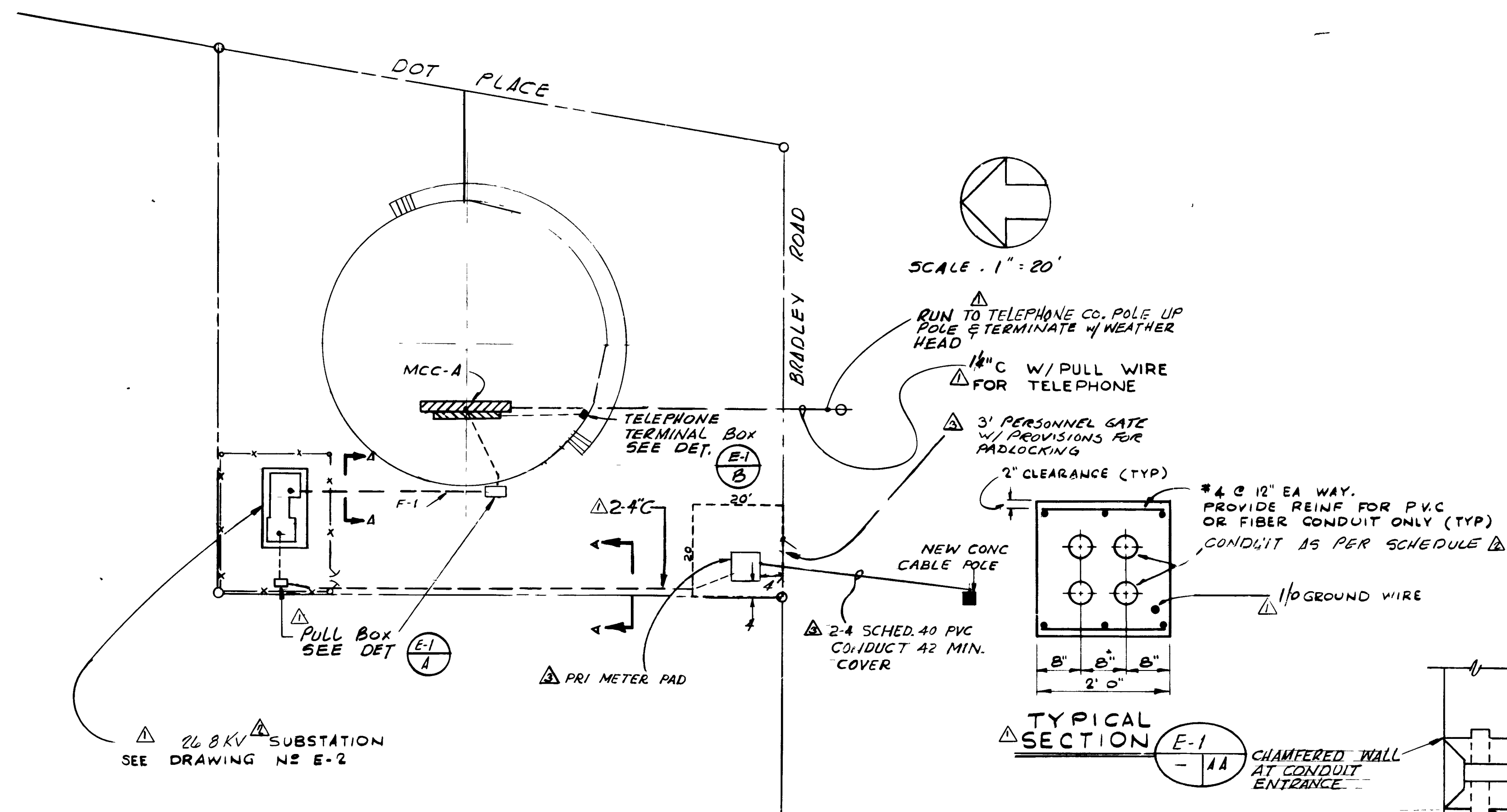
RECOMMENDED BY George C. Spivey
REG. ENGR. FLA. NO. 14834 DATE 3-20-74

SVERDRUP & PARCEL AND ASSOCIATES INC

REG ENGR FLA NO _____ DATE _____
WATER AND SEWER DIVISION
AUTHORIZED BY *[Signature]*

REG ENGR FLA NO 02270 DATE 03/30/78

OFFICE OF DIRECTOR OF PUBLIC WORKS
CITY OF JACKSONVILLE FLORIDA



LEGEND

AUTOMATIC ALTERNATOR HEALY - RUFF MODEL 7 AUTO-TROL
 AUXILIARY RELAY
 HAND OFF AUTOMATIC SWITCH
 LOW LEVEL CUT OFF DEVICE CONTACT IN LIQUID LEVEL CONTROL
 START-STOP SWITCH, MOMENTARY CONTACT TYPE
 START-STOP SWITCH, MAINTAINING CONTACT TYPE
 PILOT CONTACT DEVICE CONTACT IN LIQUID LEVEL CONTROL
 SELECTOR SWITCH (MANUAL ALTERNATOR)
 SAFE OFF SWITCH WITH LOCK OUT LATCH
 SOLENOID VALVE
 TIME SWITCH
 AMPLI SPEED CONTROL UNIT
 AMMETER
 AMMETER SWITCH
 FREQUENCY METER
 FLOAT SWITCH
 ELAPSED TIME INDICATOR (HOURS OF OPERATION)
 HAND SPEED CONTROL RHEOSTAT
 SPEED INDICATOR
 TIME DELAY RELAY ALEN BRADLEY ADJUSTABLE 0 TO 12 MIN
 VOLTMETER
 VOLTMETER SWITCH
 INDICATING WATT METER
 INDICATES LIGHTS R=RED (STOP) G=GREEN (RUNNING) B=BLUE (A=AMBER (ALARM)
 INDICATES ASSOCIATED DEVICE REMOTE FROM CONTROL CENTER (INDICATES ASSOCIATED DEVICE ON INSTRUMENTATION CONTROL PANEL INDICATES ASSOCIATED DEVICE IN MOTOR CONTROL CENTER
 PRESSURE SWITCH
 SAME AS PBM WITH LOCKING DEVICE
 SAME AS PB WITH LOCKING DEVICE
 COMMON ALARM IN INSTRUMENTATION CONTROL PANEL (ANNUNCIATOR KEY INTERLOCK -MECH & ELECTRICALLY
 LIMIT SWITCH
 CIRCUIT BREAKER MOLDED CASE THERMAL MAGNETIC TRIP, UPPER SIZE, LOWER INDICATES TRIP SETTING
 FULL VOLTAGE, NON-REVERSING MAGNETIC MOTOR STARTER (NEM C/B, & INDICATOR LIGHTS FOR FUTURE EQUIPMENT)
 REDUCED VOLTAGE, NON-REVERSING AUTO TRANSFORMER TYPE MOTOR

SM	MANUAL MOTOR STARTER
SML	SAME AS SM WITH LOCKOUT
	COMP MOTOR STARTER
	CHECK VALVE
	JUNCTION BOX
 EM	EMERGENCY POWER LOCKOUT CONTACT
 SW	SEAL WATER FLOW SWITCH CONTACT

12925

AS BUILT

OCT 1981

(E-1)

Δ	REVISIONS PER JEA REQUIREMENTS	DL	FIA	3/79	SA	3/80	JH	3/20	SUBMITTED BY <i>James E. Egan</i>	REG ENGR FLA NO 6874 DATE 9-76	APPROVED BY _____
Δ	ADDENDUM NO 1	DL	FIA	5/78	SA	5/78	JH	5/78	REG ENGR FLA NO _____ DATE _____	REG ENGR FLA NO _____ DATE _____	REG ENGR FLA NO _____ DATE _____
Δ	PRE-BID REVISION	JB	FQA	9/77	SA	3/78	JH	3/80	FLOOD & ASSOCIATES INC	APPROVAL RECOMMENDED BY <i>George E. Egan</i>	AUTHORIZED BY <i>W. L. H. H.</i>
NO	DESCRIPTION	BY	FIRM	DATE	S&P	DATE	FW	DATE	REG ENGR FLA NO 14872 DATE 2-80	REG ENGR FLA NO 9420 DATE 7-30-78	REG ENGR FLA NO _____ DATE _____
	REVISIONS		SUBMITTAL		APPROVAL				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.

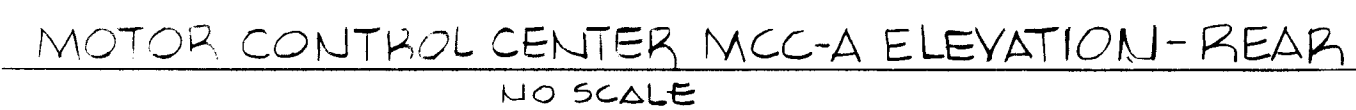
DESIGN CONSULTANT

SVERDRUP & PARCEL AND ASSOCIATES, Inc -- GENERAL CONSULTANT

SITE PLAN AND LEGEND

DETAILED BY SBD	SCALE AS SHOWN	DATE SEPT 1976
CHECKED BY BAB		

CONTR NO JS-407 PROJ NO 7316 SHEET NO 31 OF 42



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:

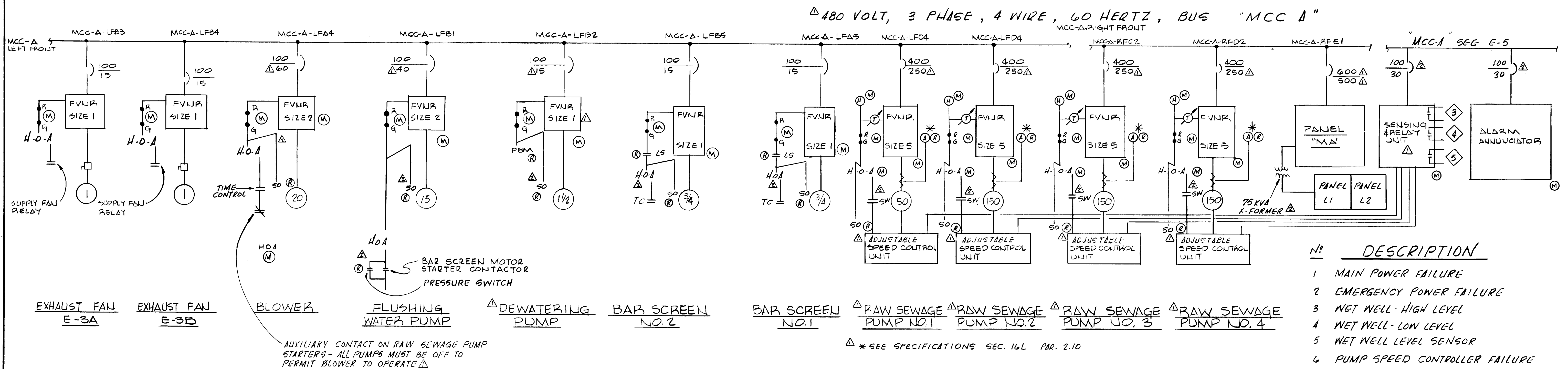
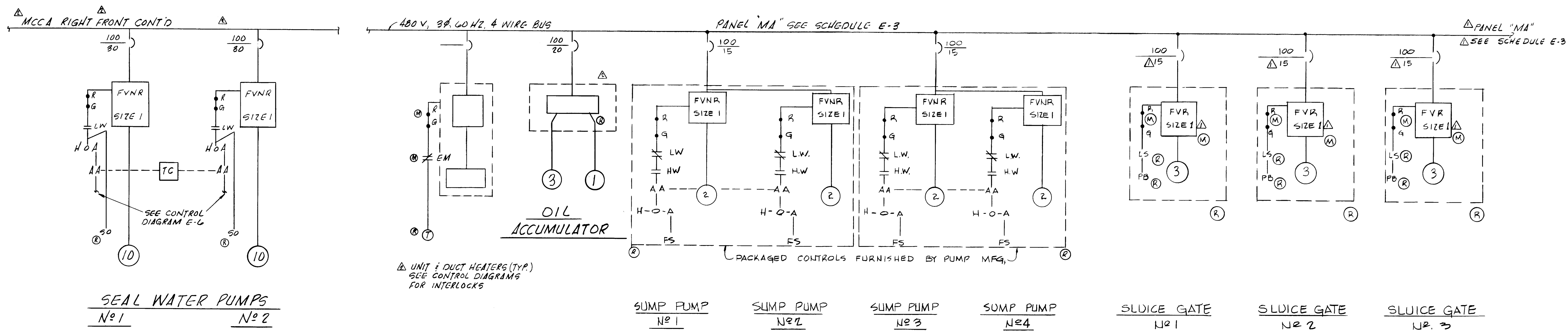
- SEE CONTROL & SINGLE LINE DIAGRAMS FOR ACCESSORIES & WIRING SCHEMES.
- TEQUIM OR TEQUIM DENOTES MOTOR Ckt. PROTECTOR W/ CURRENT LIMITER.
- CONTACTOR MECHANICALLY HELD IN EITHER POSITION.
- TRANSFORMER SIZE SHALL BE PROVIDED BY PUMP SPEED CONTROL UNIT SUPPLIER.

12927

AS BUILT

E-3

[illegible]



- | <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 |

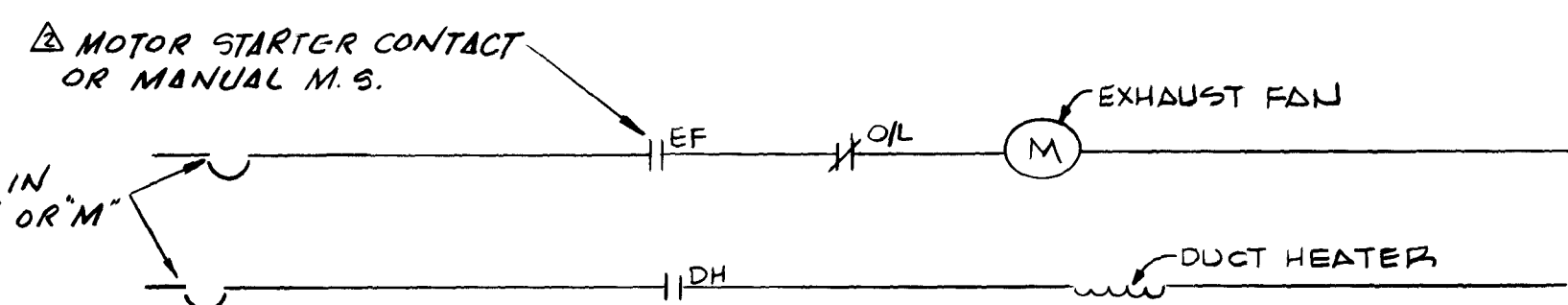
12928

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 F&A 5/78 3/78 JAH 3/81																																																	
PPE-BID REVISIONS										SE 4-4-77 3/78 JAH 3/81																																																	
NO. DESCRIPTION										BY FIRM DATE S&P DATE PW DATE																																																	
REVISIONS										SUBMITTAL APPROVAL																																																	



AUX. CONTACT ON TRANSFER SWITCH - OPEN ON EMERGENCY

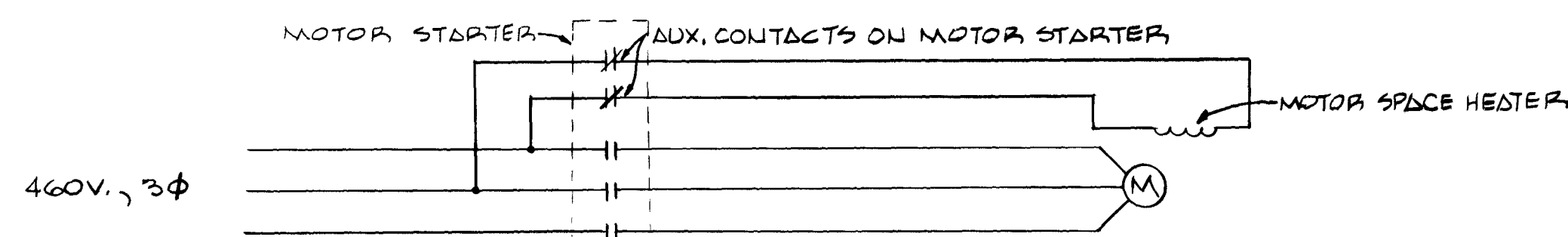
TSTAT

C

CONTACTOR IN UNIT HEATER

TYPICAL UNIT HEATER CONTROL WIRING DIAGRAM

NO SCALE



TWO POLE MANUAL MOTOR STARTER.

SF

M SUPPLY FAN

SF SUPPLY FAN STARTER (S) OR CONTROL RELAY (S)

MANUAL M.S. OR CONTROL R.B.

EF EXHAUST FAN STARTER (?) OR CONTROL RELAY (?)

AGASTAT 1000 SERIES TDOE RELAY W/ 5-50 SEC. TIMING PERIOD.

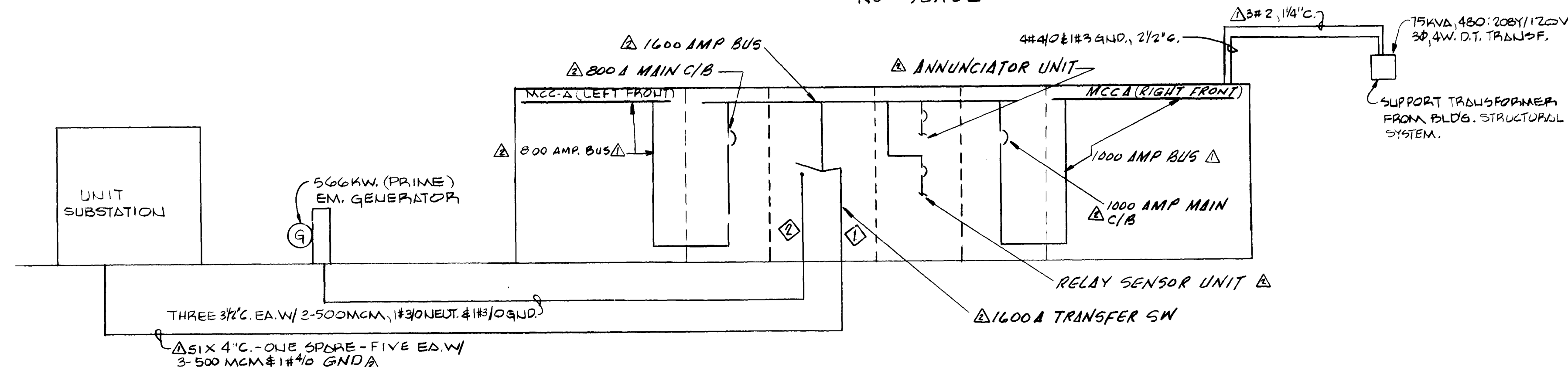
SF TD1

SF TD2

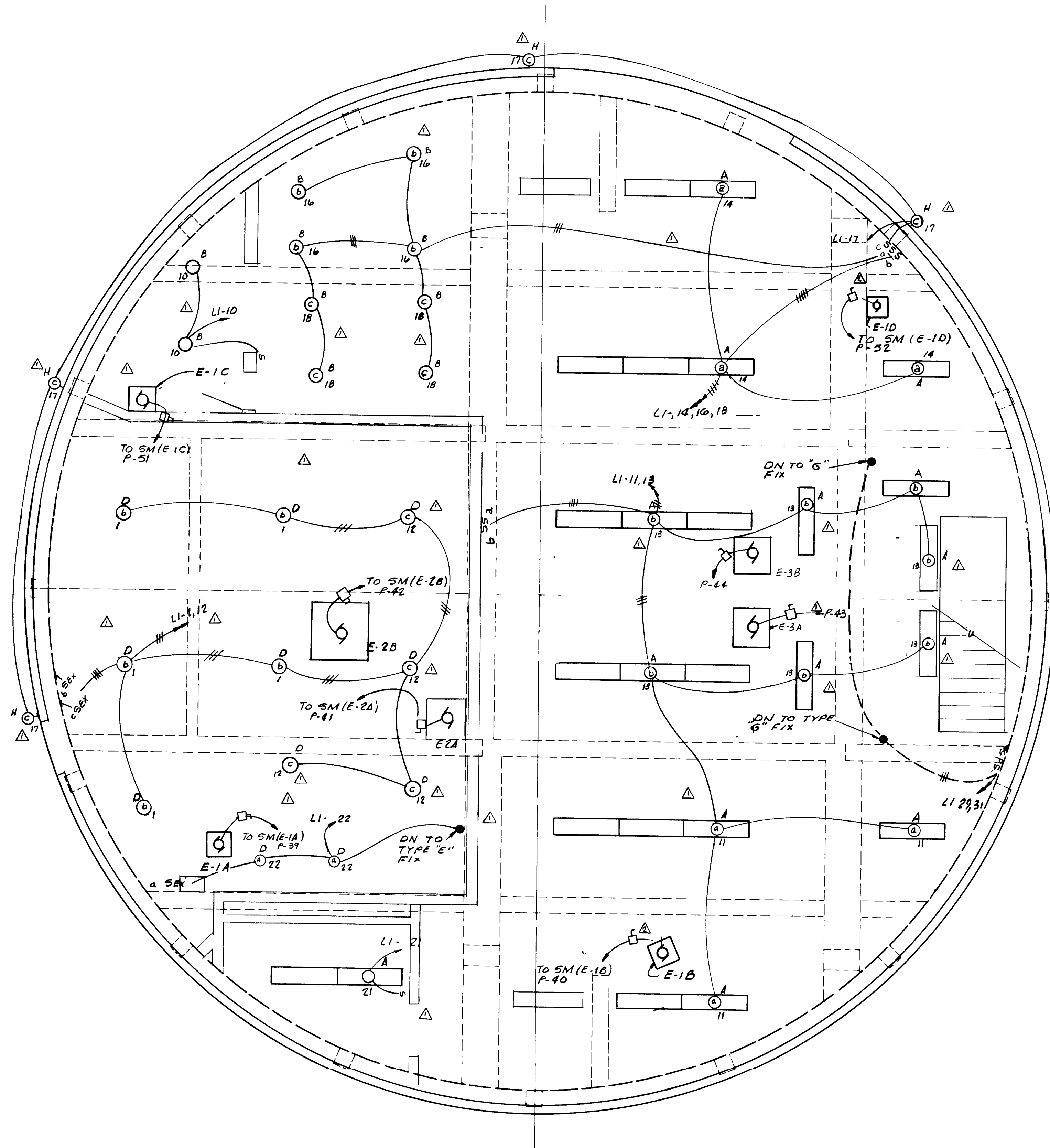
EXHAUST FAN SAIL SW.

T' STAT-CLOSE ON TEMP. DROP.

DH

[illegible][illegible]

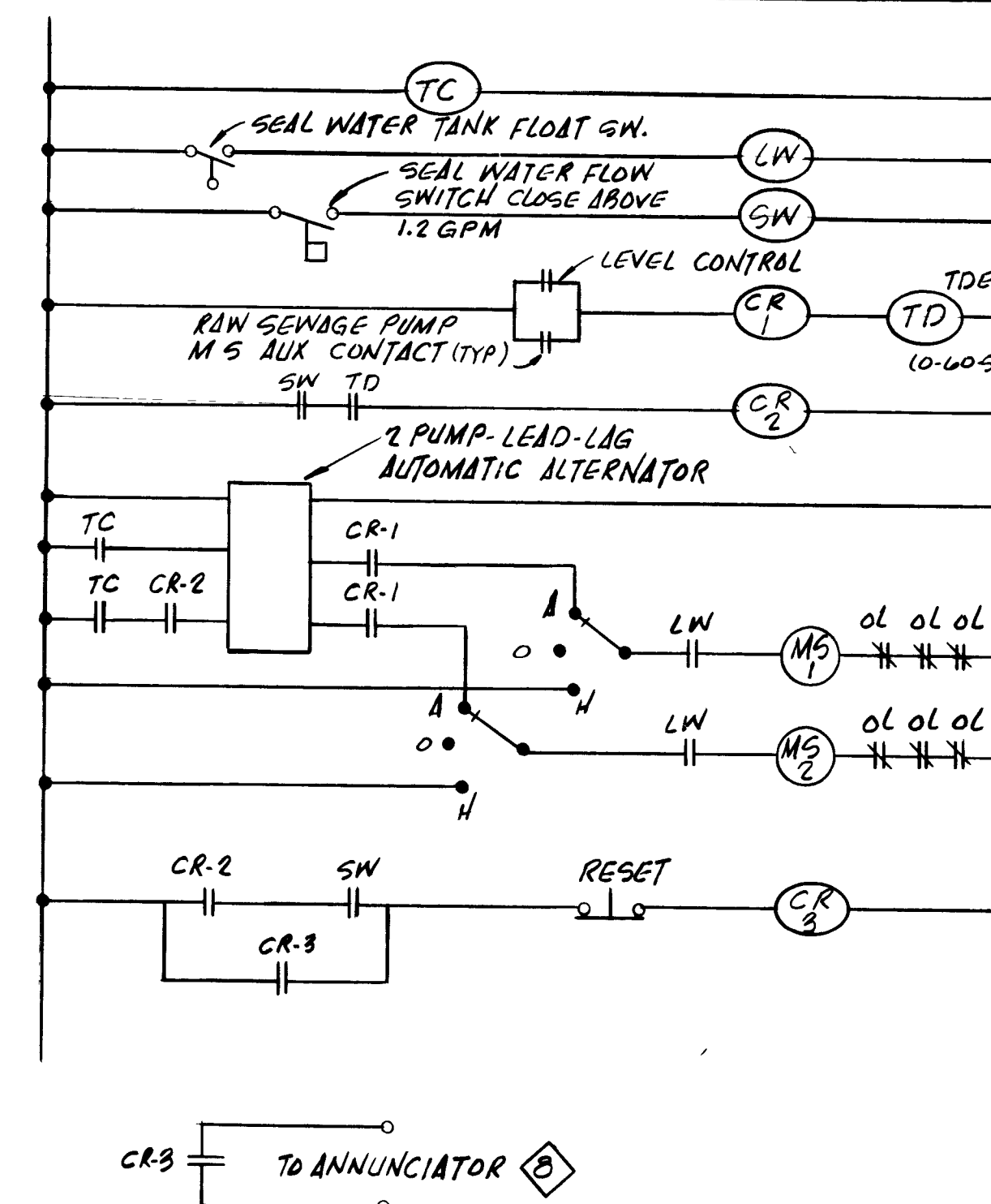
SUBMITTED BY: <u>John J. Hahn</u> REG. ENGR. FLA. NO. <u>6847</u> DATE <u>1/77</u> FLOOD & ASSOCIATES, INC.										APPROVED BY: _____ REG. ENGR. FLA. NO. _____ DATE _____ WATER AND SEWER DIVISION AUTHORIZED BY: <u>John J. Hahn</u> REG. ENGR. FLA. NO. <u>9270</u> DATE <u>3/30/78</u> OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA										CITY OF JACKSONVILLE, FLORIDA SEWERAGE IMPROVEMENT PROGRAM ST. JOHNS BLUFF MASTER PUMPING STATION										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT										CONTROL DIAGRAMS																			
ADDENDUM NO. 1 PRE-BID REVISIONS										BY: <u>John J. Hahn</u> DATE <u>3/30/78</u> FIRM: <u>F&A</u> DATE <u>3/30/78</u> S&P: <u>3/30/78</u> PW: <u>3/30/78</u> DATE <u>3/30/78</u>										APPROVAL REG. ENGR. FLA. NO. <u>14824</u> DATE <u>3-28-78</u> SVERDRUP & PARCEL AND ASSOCIATES, INC.										CITY OF JACKSONVILLE, FLORIDA										SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT										CONTR. NO. <u>JS-40.7</u> PROJ. NO. <u>7316</u> SHEET NO. <u>35</u> OF <u>42</u>									
NO. _____ DESCRIPTION _____										BY: _____ FIRM: _____ DATE _____ S&P: _____ PW: _____ DATE _____										APPROVAL _____										CITY OF JACKSONVILLE, FLORIDA										SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT										CONTR. NO. _____ PROJ. NO. _____ SHEET NO. _____ OF _____									
REVISIONS _____										SUBMITTAL _____										APPROVAL _____										CITY OF JACKSONVILLE, FLORIDA										SVERDRUP & PARCEL AND ASSOCIATES, INC. --- GENERAL CONSULTANT										CONTR. NO. _____ PROJ. NO. _____ SHEET NO. _____ OF _____									



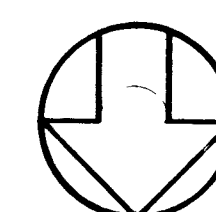
FIXTURE SCHEDULE				
TYPE	MANUFACTURER	CATALOG NO	LAMP	MOUNTING
A	BENJAMIN	EL-1024-4U	2-40W-R/S	CEILING
B	CROUSE HINDS	EVCX2011	150 W	CEILING
N/A				
D	CROUSE HINDS	EVCX2051	300W	CEILING EXPLOSION PROOF
E	CROUSE HINDS	EVBX205	300 W	BRACKET EXPLOSION PROOF
F	STONCO	75 F BOX W/THREE CLD 1500 LAMPHOLDER	2-150W PAR FLOOD 1 150W PAR SPOT	WALL
G	CROUSE HINDS	Φ 6 500 4779B	500W-T3	BRACKET
H	STONCO	PB40 1RM	200 W	BRACKET

NOTE: ALL FLUORESCENT FIXTURES TYPE A

SEAL WATER SYSTEM CONTROL DIAGRAM



ROOF & 1ST FLOOR LIGHTING PLAN
SCALE: 1/4" = 1'-0"



12930

AS BUILT
OCT 1981

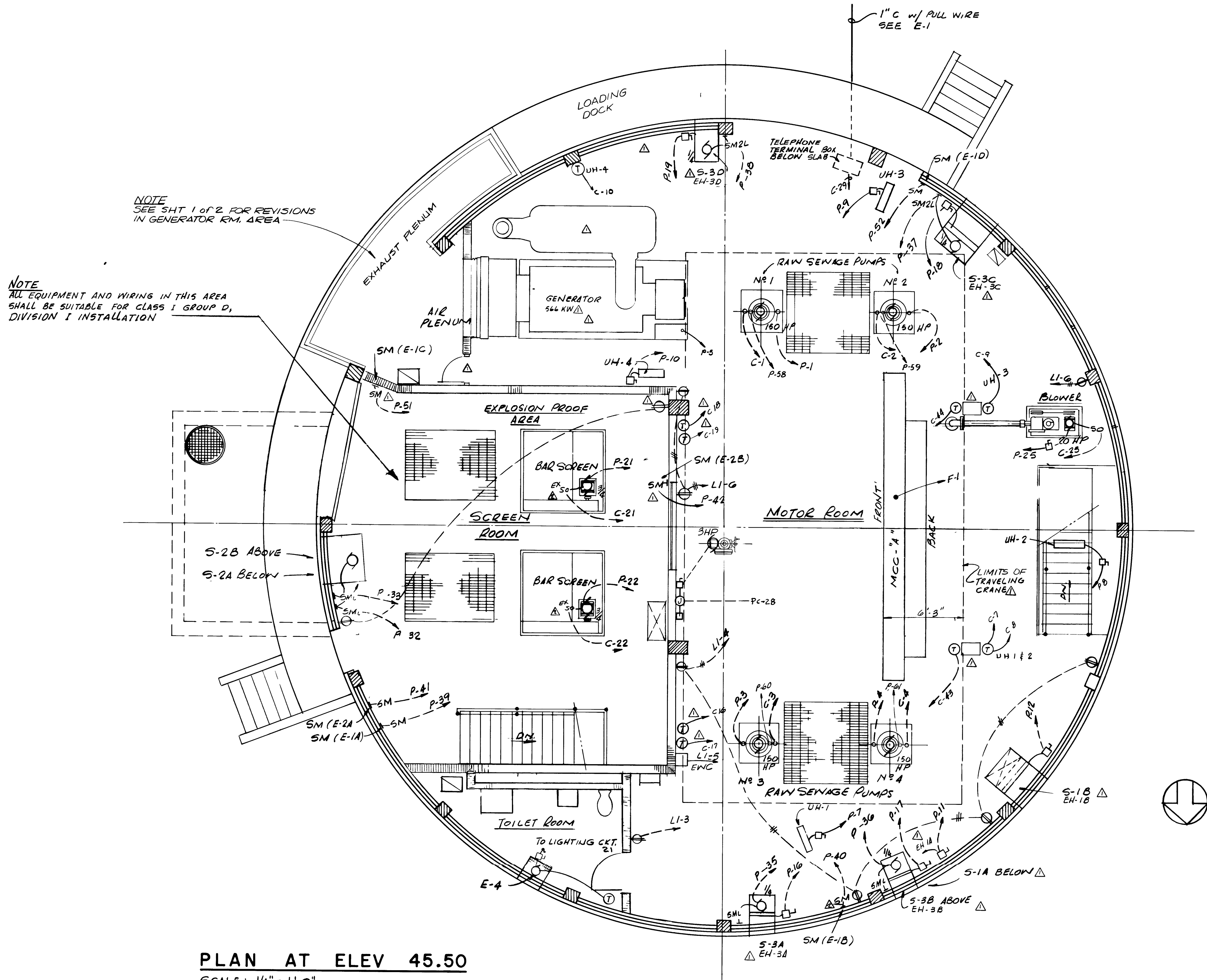
E-6

SUBMITTED BY <i>James S. English</i>		REG ENGR FLA NO 6847 DATE 9/76	
FLOOD & ASSOCIATES INC		APPROVED BY <i>[Signature]</i>	
RECOMMENDED BY <i>[Signature]</i>		DATE 9/76	
REG ENGR FLA NO 10224 DATE 2-28-78		OFFICE OF DIRECTOR OF PUBLIC WORKS	
SVERDRUP & PARCEL AND ASSOCIATES INC		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
CHECKED BY B.A.B.	DATE SEPT 1976

ELECTRICAL / ROOF PLAN	
CONTR NO JS 407	PROJ NO 7316
SHEET NO 36 OF 42	



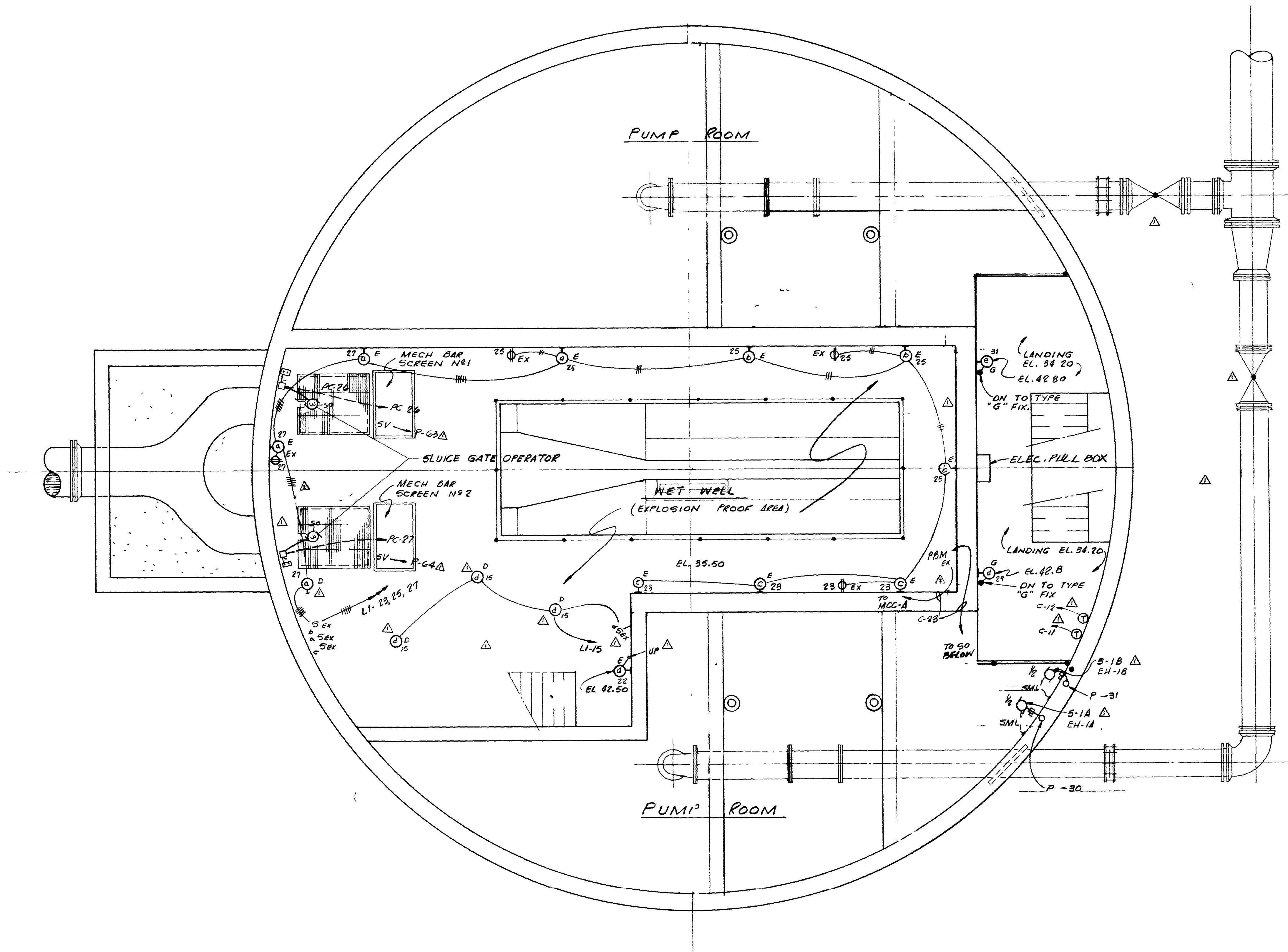
PLAN AT ELEV 45.50
SCALE: 1/4" = 1'-0"

12931

AS BUILT
OCT, 1981

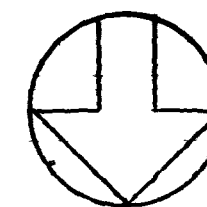
E-7

										SUBMITTED BY <u>James S. Taylor</u>										APPROVED BY _____										CITY OF JACKSONVILLE, FLORIDA										FLOOD & ASSOCIATES, INC. DESIGN CONSULTANT										ELECTRICAL / PLAN AT ELEV. 45 50																																																											
										REG ENGR FLA NO <u>6847</u> DATE <u>9/76</u>										REG ENGR FLA NO _____ DATE _____																																																																																									
										FLOOD & ASSOCIATES INC										WATER AND SEWER DIVISION										SEWERAGE IMPROVEMENT PROGRAM										SVERDRUP & PARCEL AND ASSOCIATES, INC. — GENERAL CONSULTANT																																																																					
										APPROVAL										AUTHORIZED BY <u>James S. Taylor</u>																																																																																									
										RECOMMENDED BY <u>James S. Taylor</u>										REG ENGR FLA NO <u>4270</u> DATE <u>12/1/78</u>										ST JOHNS BLUFF MASTER PUMPING STATION										SCALE <u>AS SHOWN</u> DATE <u>SEPT 1976</u>																																																																					
										SVERDRUP & PARCEL AND ASSOCIATES, INC										OFFICE OF DIRECTOR OF PUBLIC WORKS CITY OF JACKSONVILLE, FLORIDA																																																																																									
										SUBMITTAL										CHECKED BY <u>B A B</u>										CONTR NO <u>JS 40 7</u>										PROJ NO <u>7316</u>										SHEET NO <u>37</u> OF <u>42</u>																																																											
										APPROVAL																																																																																																			



PLAN @ ELEV. 35.50

SCALE 1/4" = 1'-0"

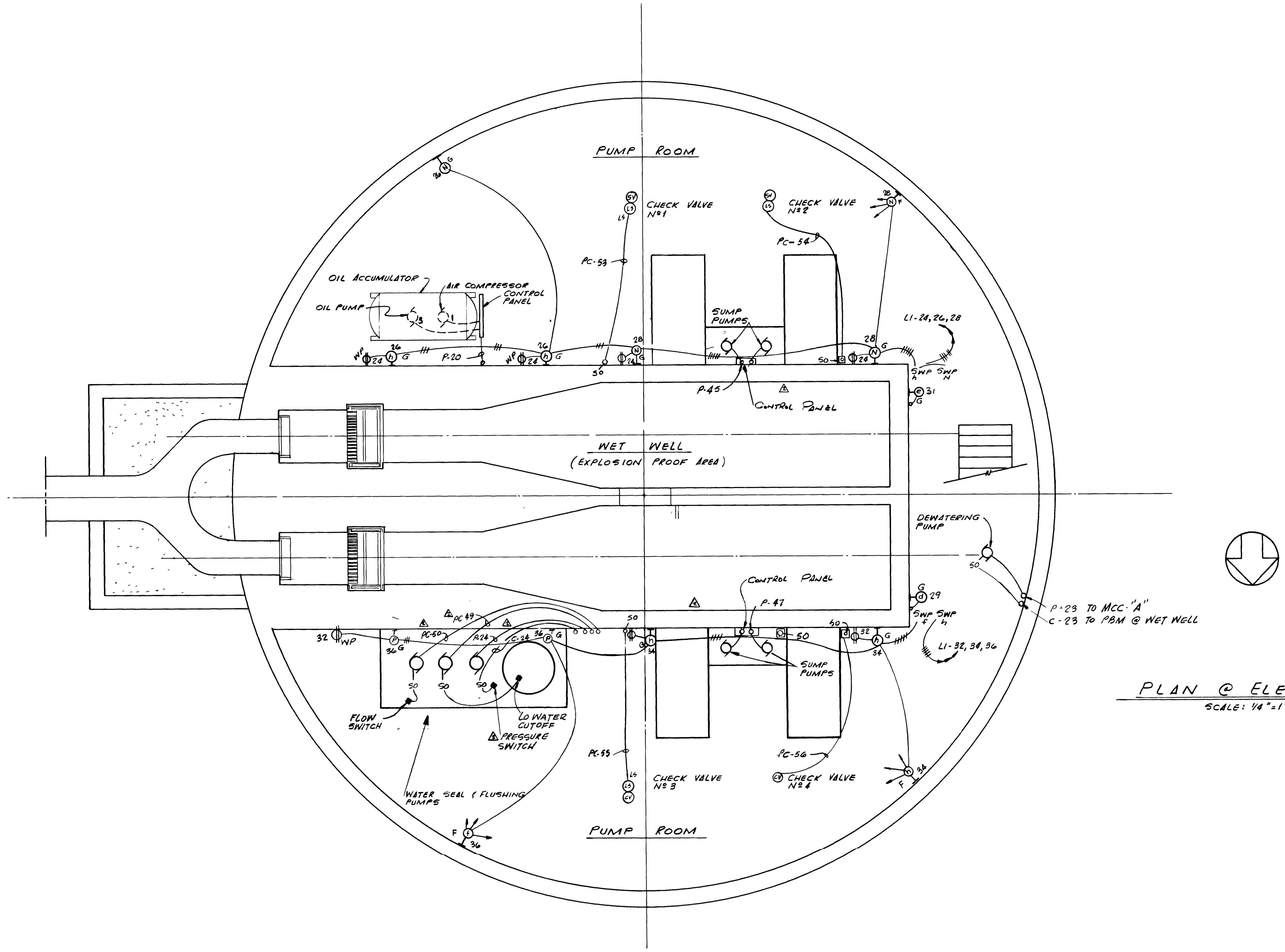


12932

AS BUILT

(E-8)

[illegible]



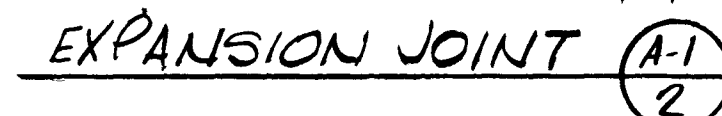
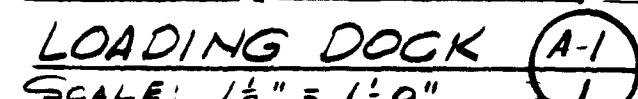
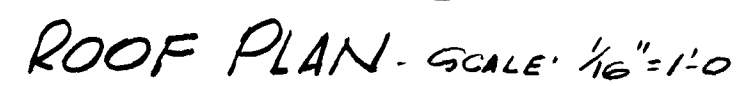
PLAN @ ELEV. 22.89
SCALE: 1/4" = 1'-0"

12933

AS BUILT
OCT, 1981

E-9

										SUBMITTED BY <i>James S. England</i>		APPROVED BY _____		CITY OF JACKSONVILLE, FLORIDA		FLOOD & ASSOCIATES, INC.				ELECTRICAL / PLAN AT ELEV 22.89		
										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						
										APPROVAL		AUTHORIZED BY <i>[Signature]</i>										
										RECOMMENDED BY <i>James S. England</i>		DATE <u>10/78</u>		OFFICE OF DIRECTOR OF PUBLIC WORKS		DETAILED BY <u>C D</u>						
										REG ENGR FLA NO <u>1024</u> DATE <u>3-28-78</u>		REG ENGR FLA NO <u>10270</u> DATE <u>10/78</u>		CITY OF JACKSONVILLE, FLORIDA		SCALE <u>AS SHOWN</u> DATE <u>SEPT 1976</u>						
										SVERDRUP & PARCEL AND ASSOCIATES INC						CHECKED BY <u>B A B</u>						
																</						

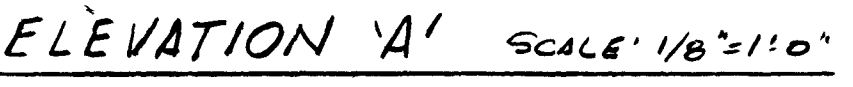
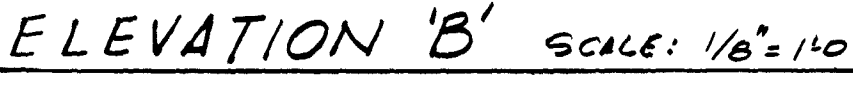
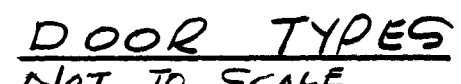
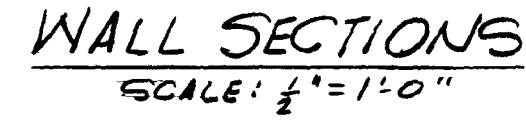


DOOR SCHEDULE							NOTE: EXTERIOR DOORS, FRAMES & LOUVERS ONLY BRONZE ANODIZED ALUM.		
No	DOOR OPENINGS	TYPE	MATERIAL	DETAILS (SHT. A-2)			LOUVER SIZE	HARDWARE GROUP	REMARKS
				HEAD	JAMB	SILL			
1	3'-4" x 10'-0"	B	ALUM.	A-1/3, A-2/7	A-2/B	A-2/9	-	5	7'-0" DR W/ FIXED ALUM. PNL ABOVE
2	10'-4 1/2" x 10'-0"	A	ALUM.	A-2/16	A-2/19, 20	A-2/21	-	-	CHAIN OPERATED ROLL UP DR (VERIFY WIDTH)
3	10'-4 1/2" x 10'-0"	A	ALUM.	A-2/18	A-2/19-20	A-2/21	-	-	CHAIN OPERATED ROLL UP DR (VERIFY WIDTH)
4	3'-4" x 10'-0"	B	ALUM.	A-1/3, A-2/7	A-2/B	A-2/9	-	5	7'-0" DR W/ FIXED ALUM. PNL. ABOVE
5	3'-4" x 7'-2"	C	ALUM.	A-2/15	A-2/16	A-2/17	12" x 24"	4	
6	2'-4" x 7'-2"	C	ALUM.	A-2/15	A-2/16, 32	A-2/17	-	3	

INDICATION LEGEND

	
	FACE BRICK
	CONCRETE
	8" G.M.U.
	4" FACE BRK ON 4" G.M.U.

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

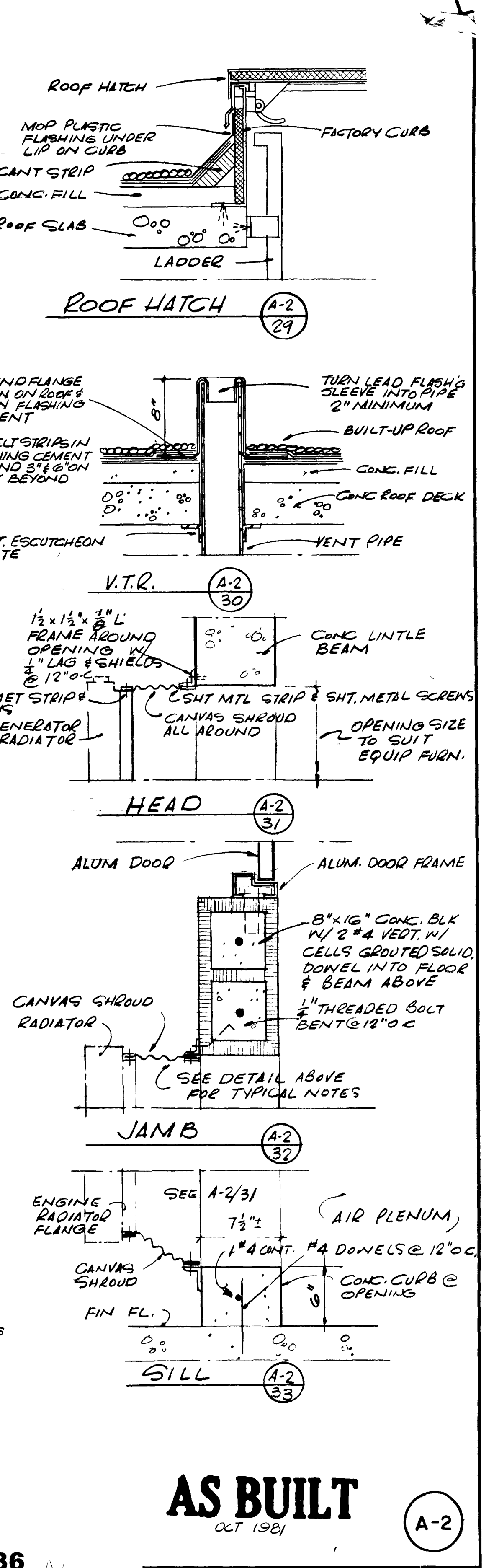
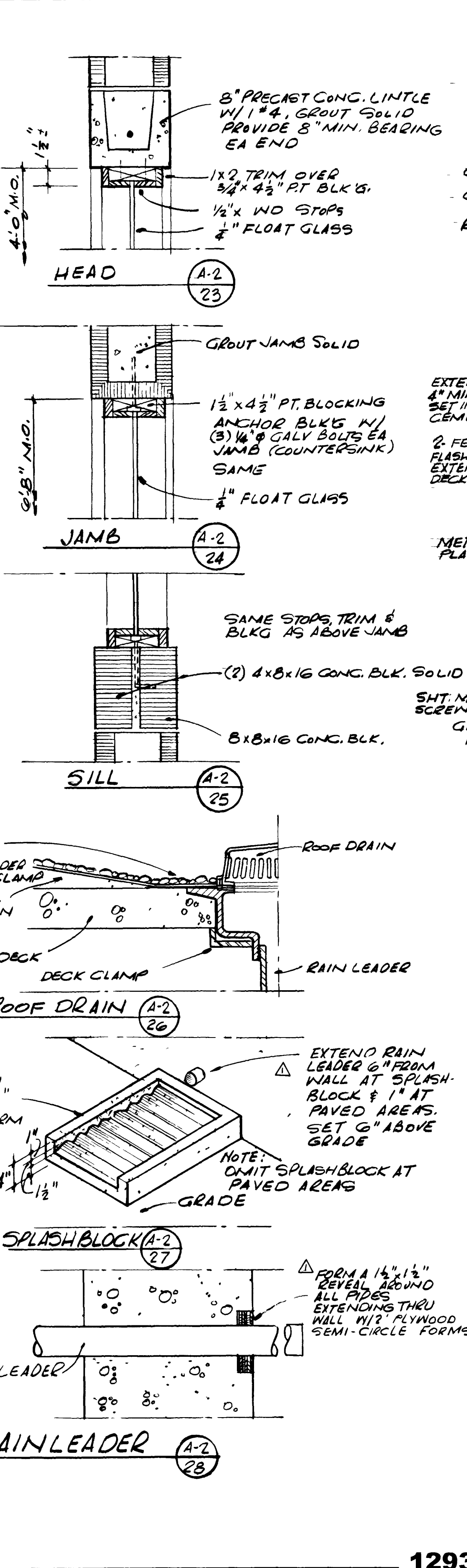
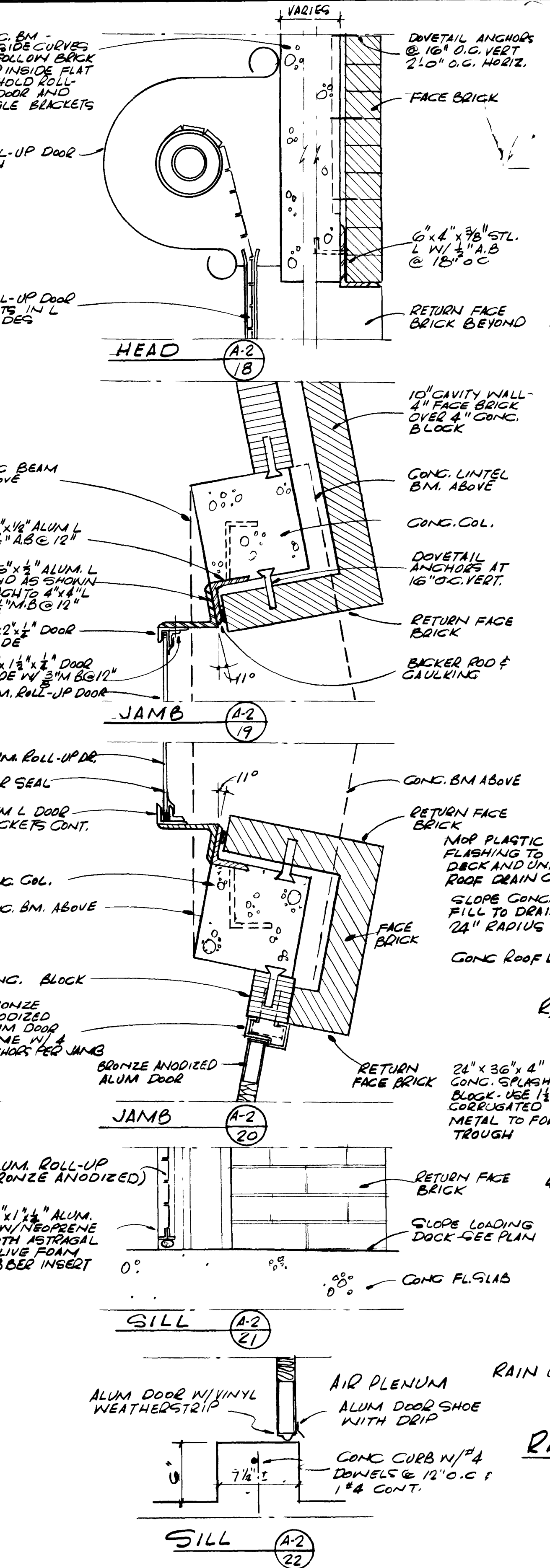
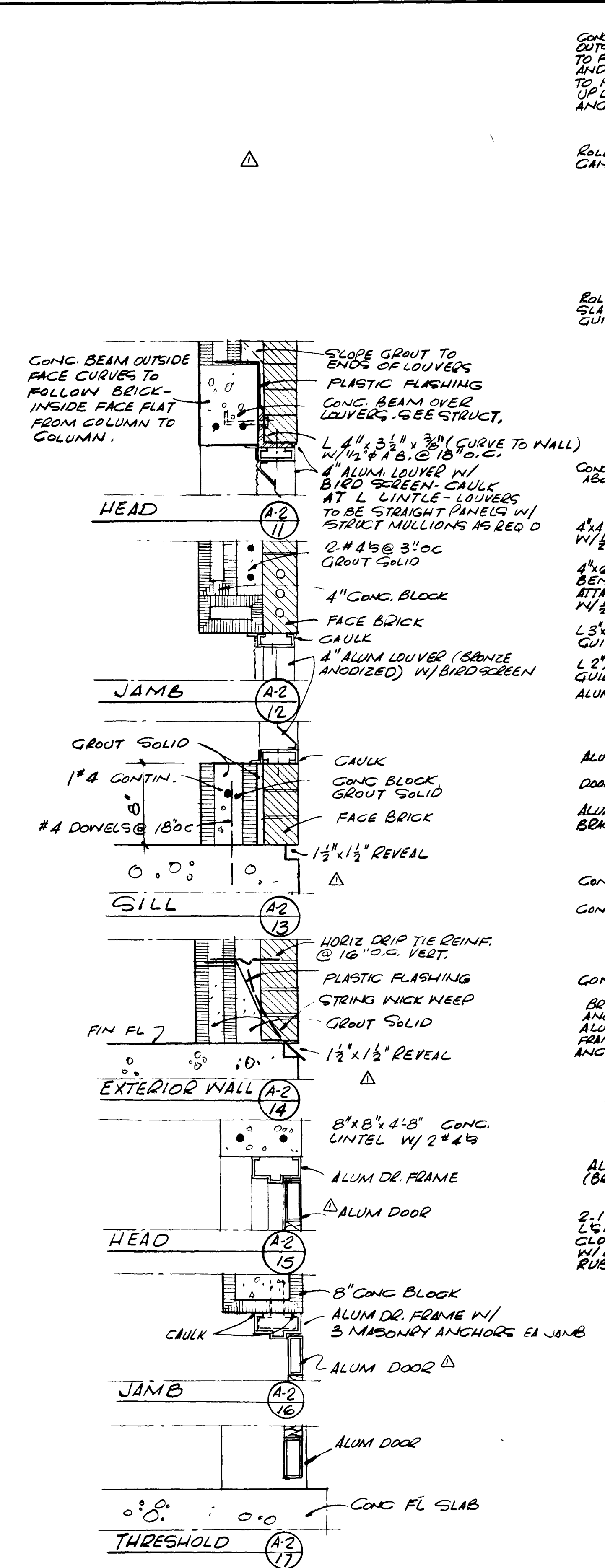
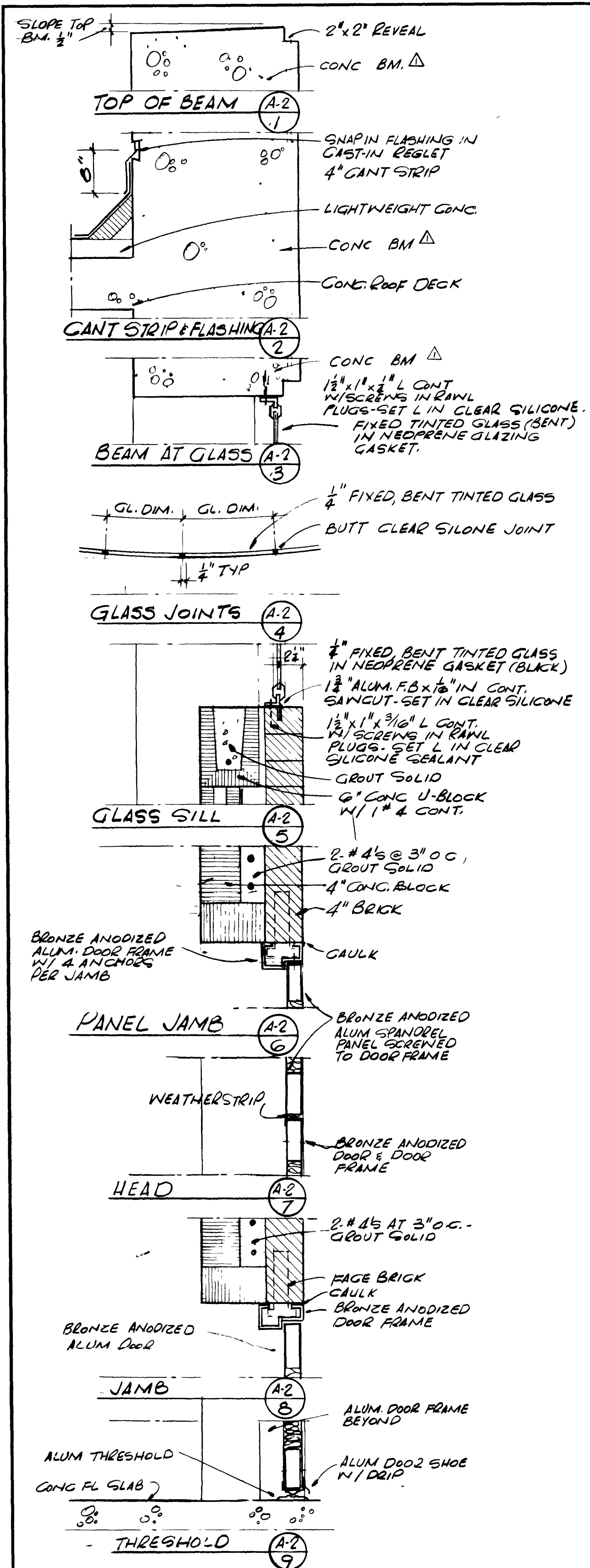


AS BUILT

12935

(A-1)

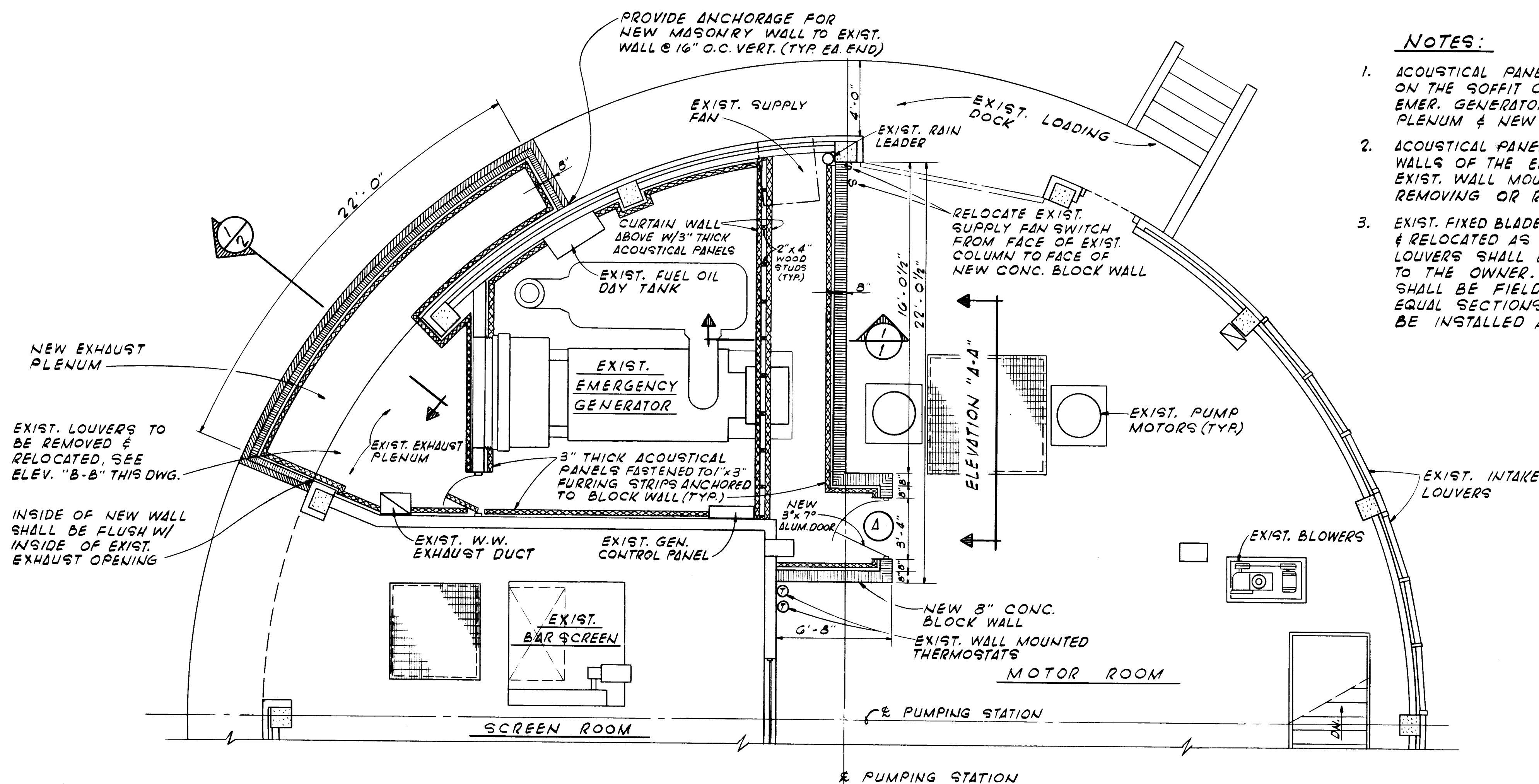
										SUBMITTED BY <u>James S. Ryland</u> REG ENGR FLA NO <u>6847</u> DATE <u>9/76</u> FLOOD & ASSOCIATES INC.										APPROVED BY _____ DATE _____ REG ENGR FLA NO _____ DATE _____ WATER AND SEWER DIVISION AUTHORIZED BY <u>John H. Hest</u> REG ENGR FLA NO <u>10270</u> DATE <u>9/2/78</u> OFFICE OF DIRECTOR 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										PLAN, ELEVATIONS & SECTIONS									
PRE B.I.D. REVISION										10 FEB 9 1977 4 11 1977 3/2/78																				SVERDRUP & PARCEL AND ASSOCIATES, INC. -- GENERAL CONSULTANT																													
NO DESCRIPTION										BY FIRM DATE S&P DATE PW DATE																				DETAILED BY <u>JAB</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>41</u> OF <u>42</u>																			
REVISIONS										SUBMITTAL APPROVAL																				CHECKED BY <u>BAB</u>																													



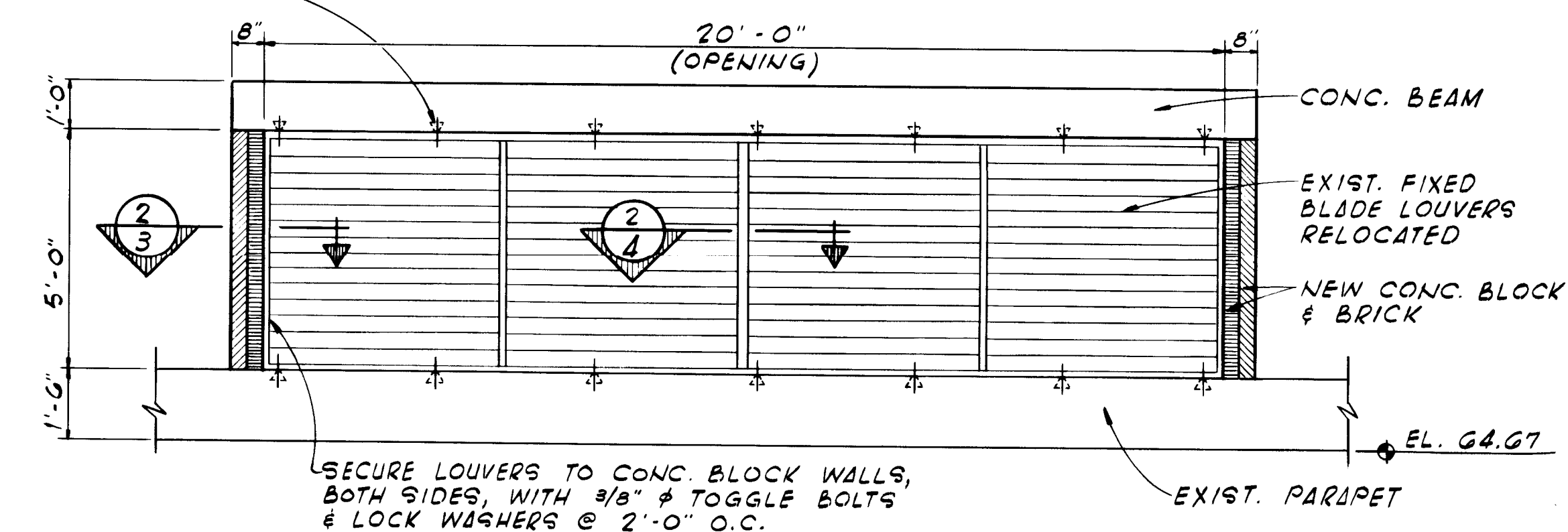
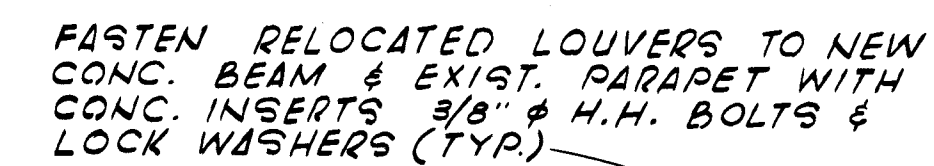
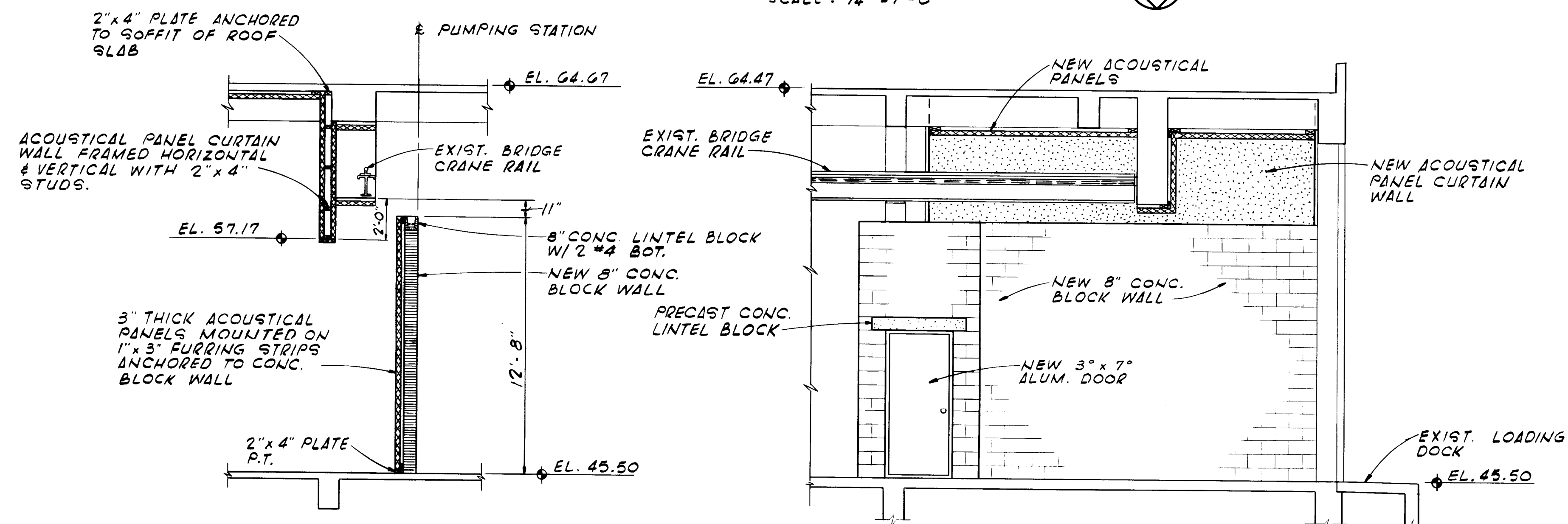
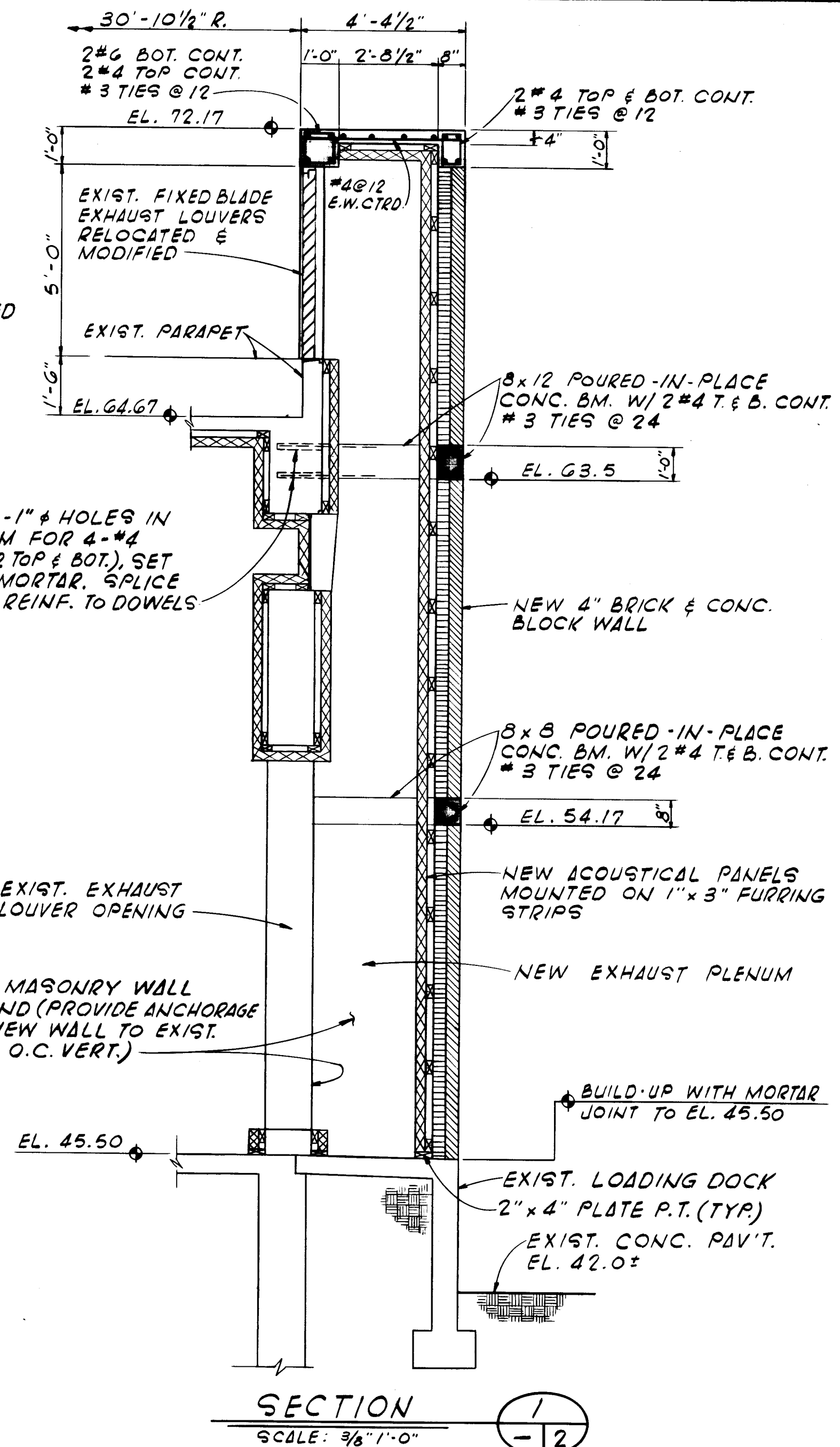
AS BUILT
OCT 1981

(A-2)

										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>[Signature]</u> DATE <u>10/31/78</u> REG ENGR FLA NO <u>14270</u> DATE <u>10/31/78</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>B A B</u>										12936 CONTR NO <u>JS 407</u> PROJ NO <u>7316</u> SHEET NO <u>42</u> OF <u>42</u>									
PRE-BID REVISIONS										REVISIONS										DETAILS																																							
NO	DESCRIPTION									BY	FIRM	DATE	S&P	DATE	PW	DATE																																											

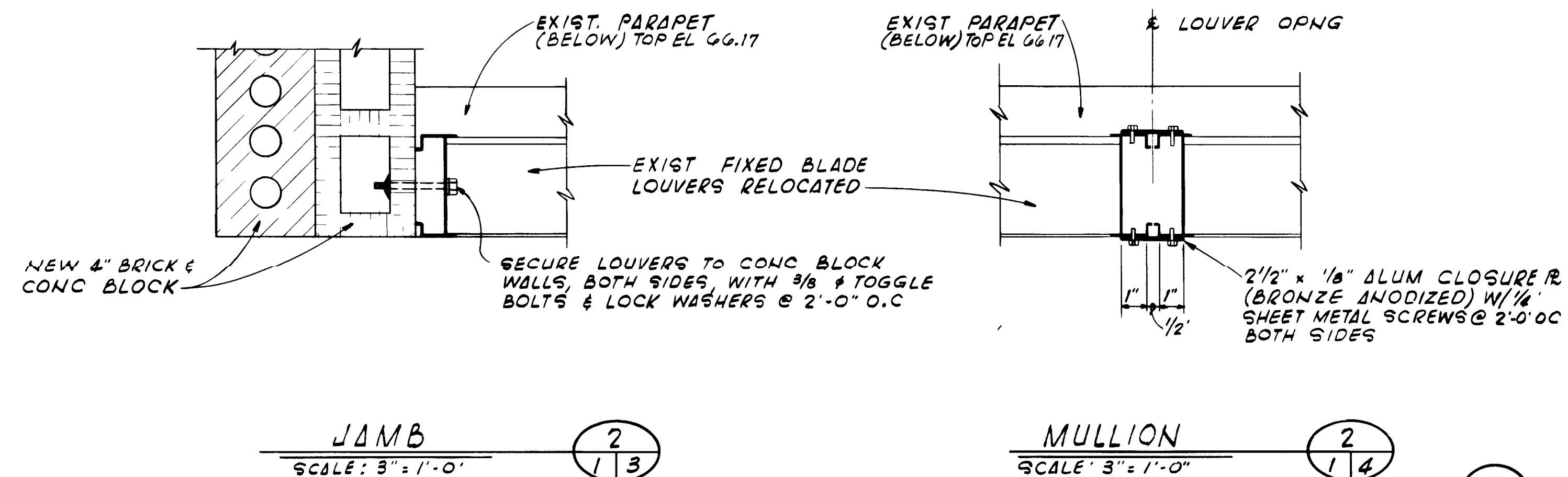
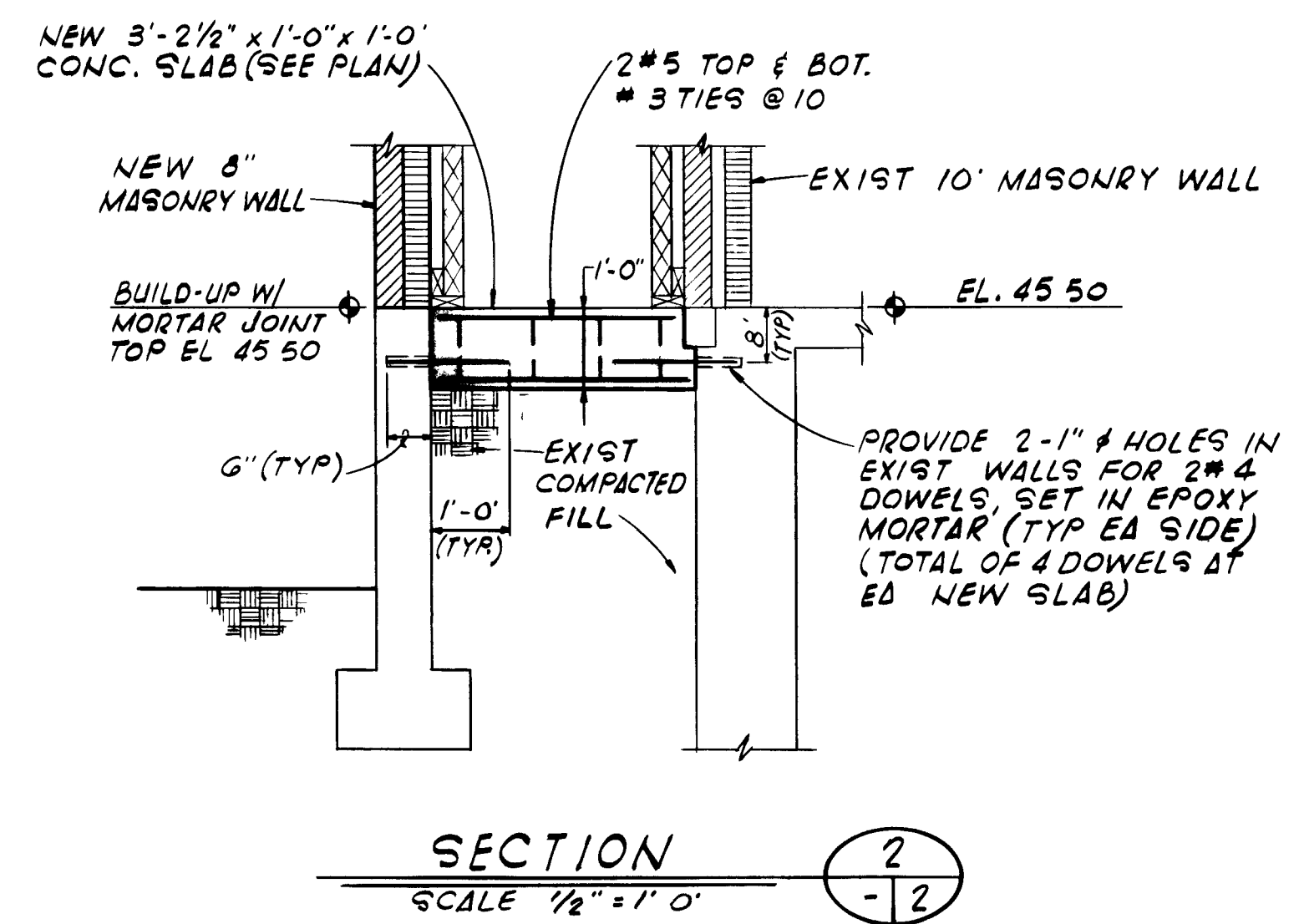


- NOTES:
1. ACOUSTICAL PANELS SHALL BE INSTALLED ON THE SOFFIT OF THE ROOF SLAB IN THE EMER. GENERATOR ROOM, EXIST. EXHAUST PLENUM & NEW EXHAUST PLENUM.
 2. ACOUSTICAL PANELS SHALL BE AFFIXED TO THE WALLS OF THE EMER. GENERATOR ROOM AROUND EXIST. WALL MOUNTED EQUIPMENT WITHOUT REMOVING OR RELOCATING 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.



AS BUILT

[illegible]



AS BUILT OCT. 1981

NO	DESCRIPTION			BY	FIRM	DATE	DATE	PW	DATE			
	REVISIONS			SUBMITTAL			APPROVAL					

SUBMITTED BY Simon W. Louder
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 8/26/84
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.
DESIGN CONSULTANT

12938

DETAILED BY <u>K.H.</u>	SCALE <u>AS SHOWN</u>	DATE <u>AUGUST, 1980</u>
CHECKED BY <u>J.P.V.</u>		

CONTR NO JS 4071

PROJ. NO 7316-3

SHEET NO 2 OF 2