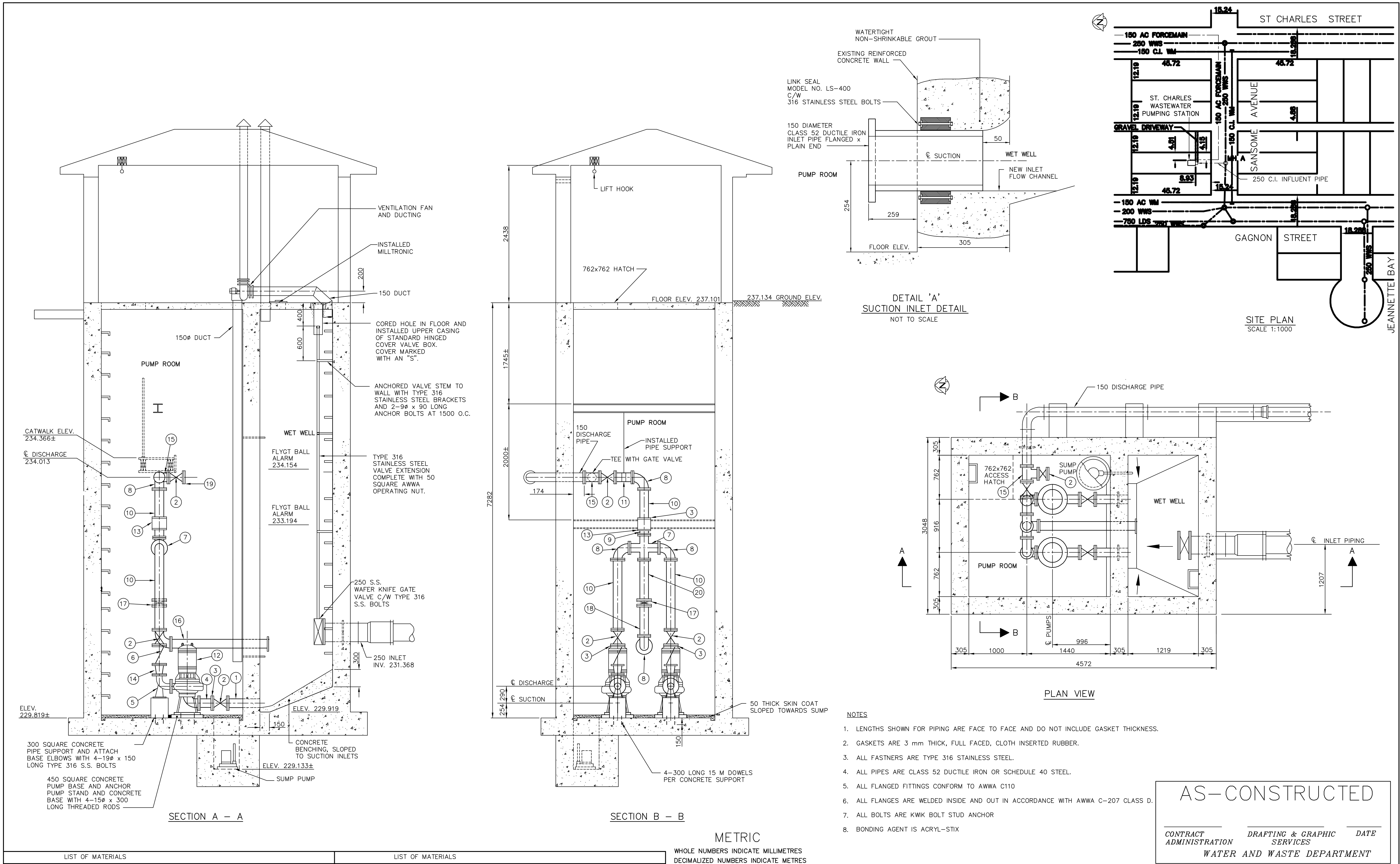
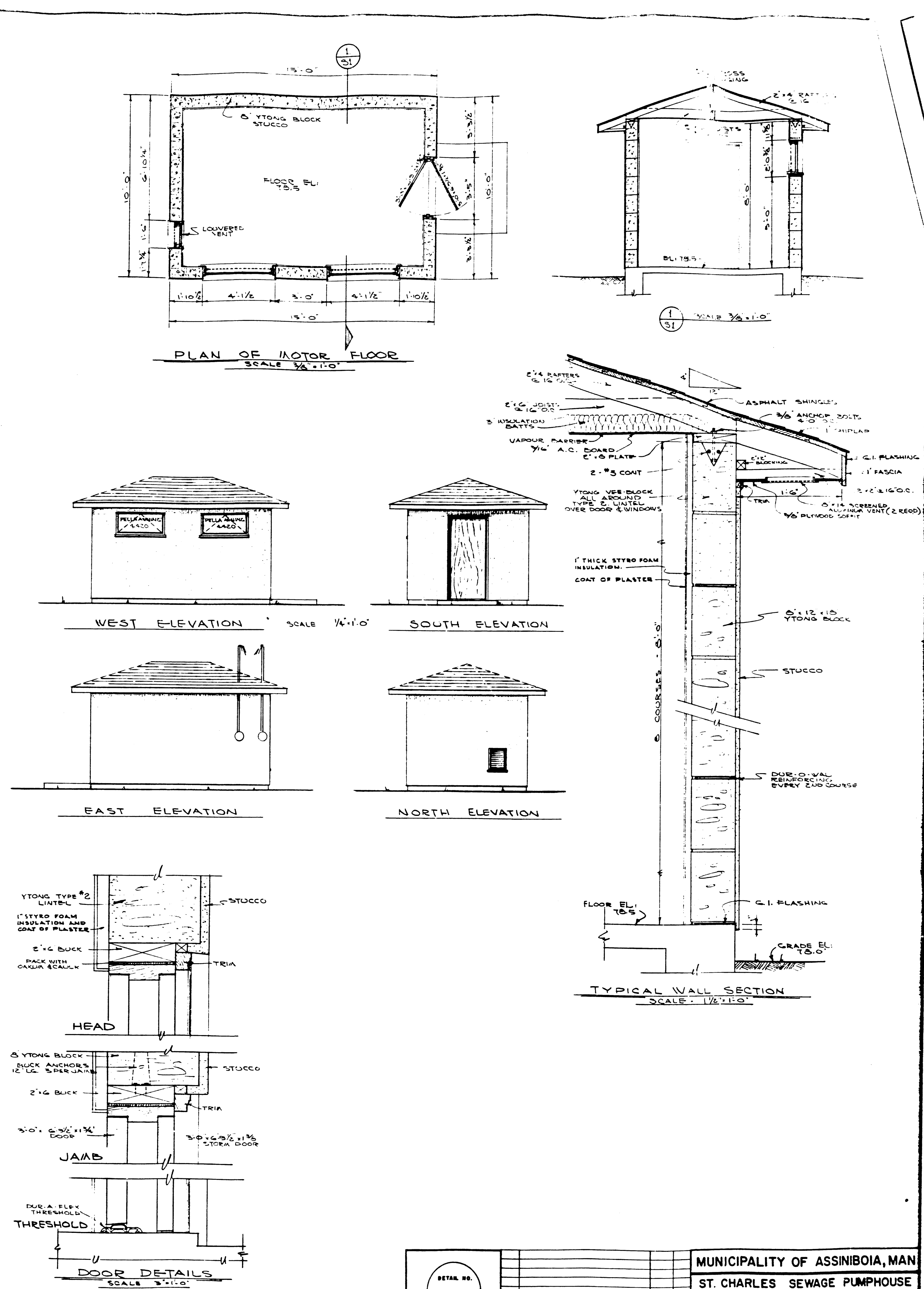
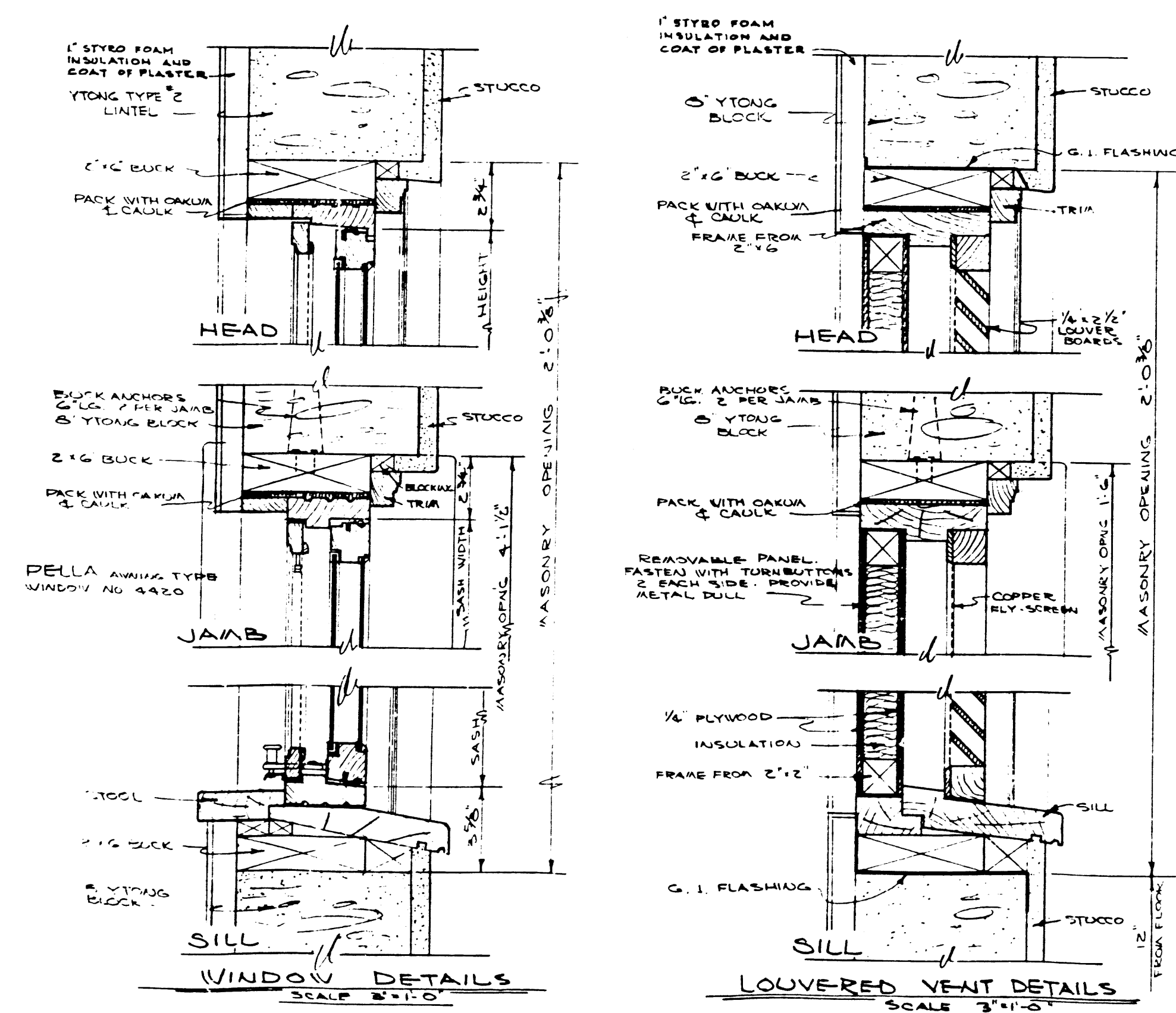
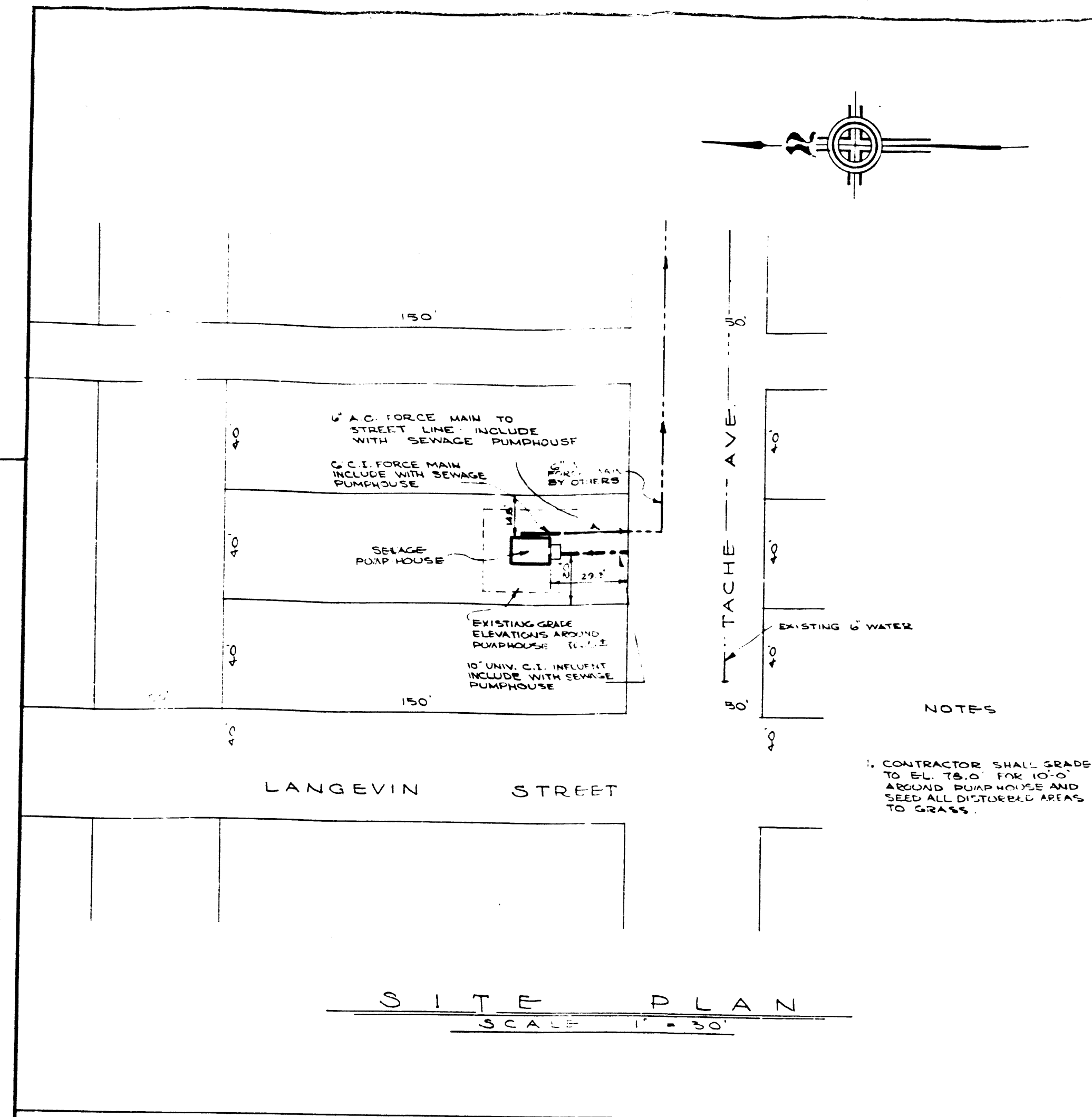
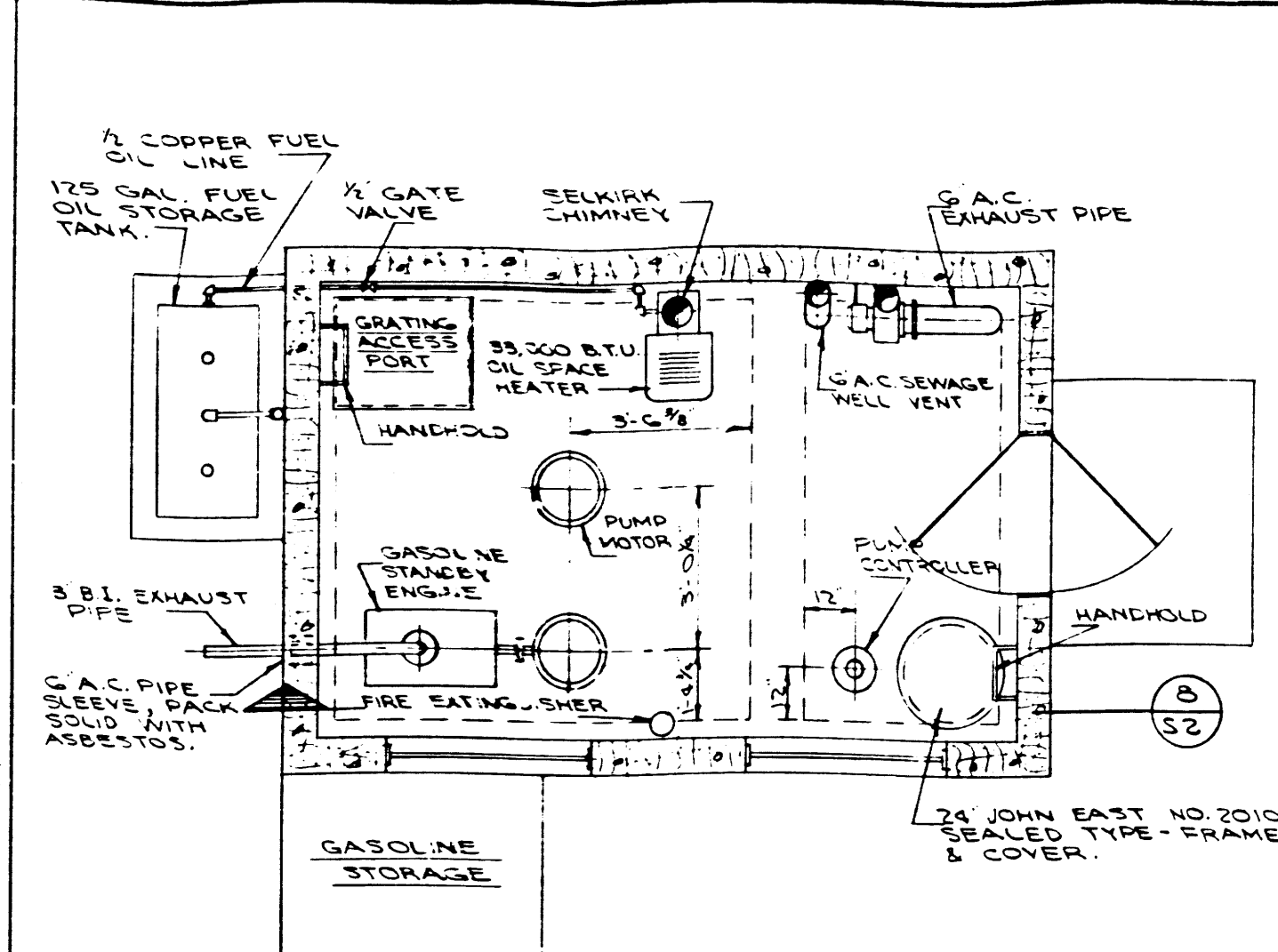
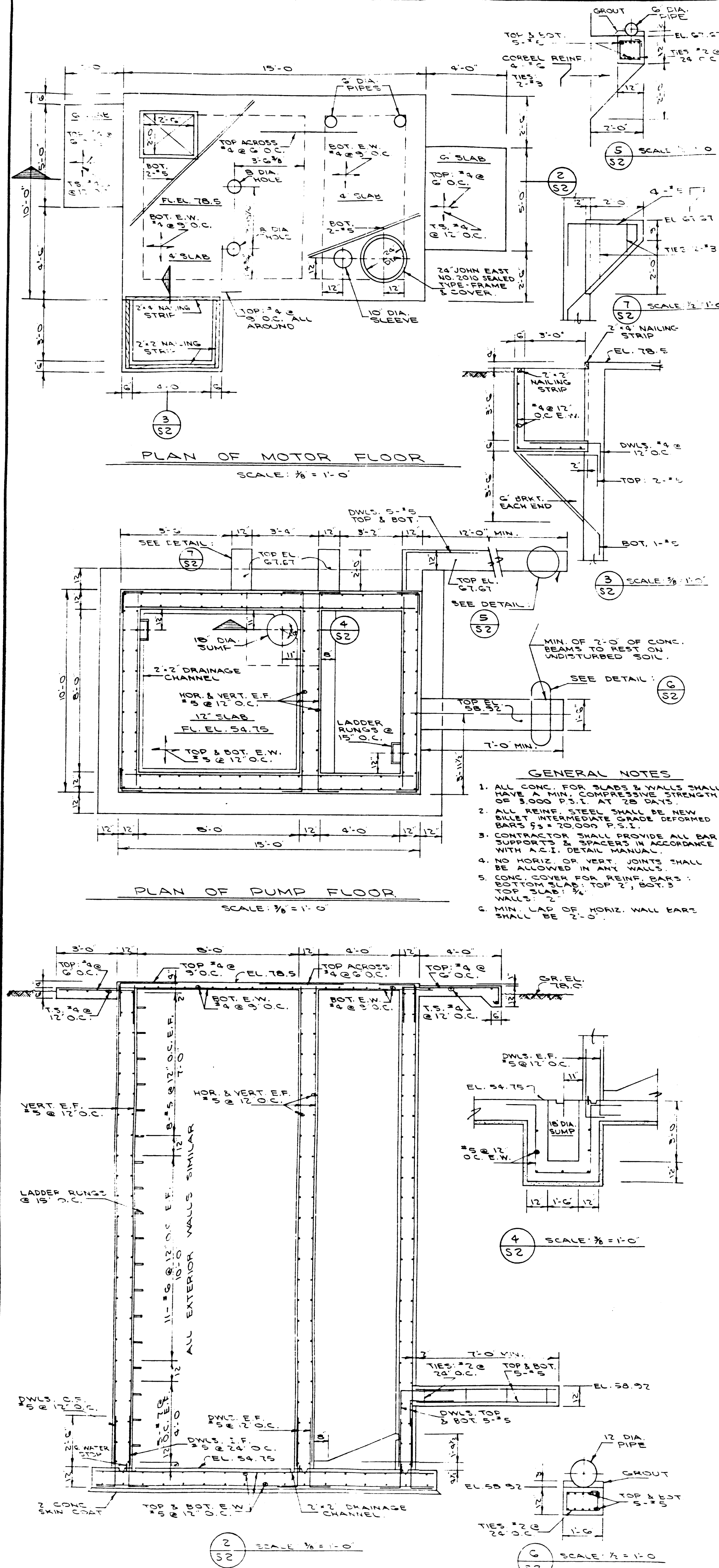
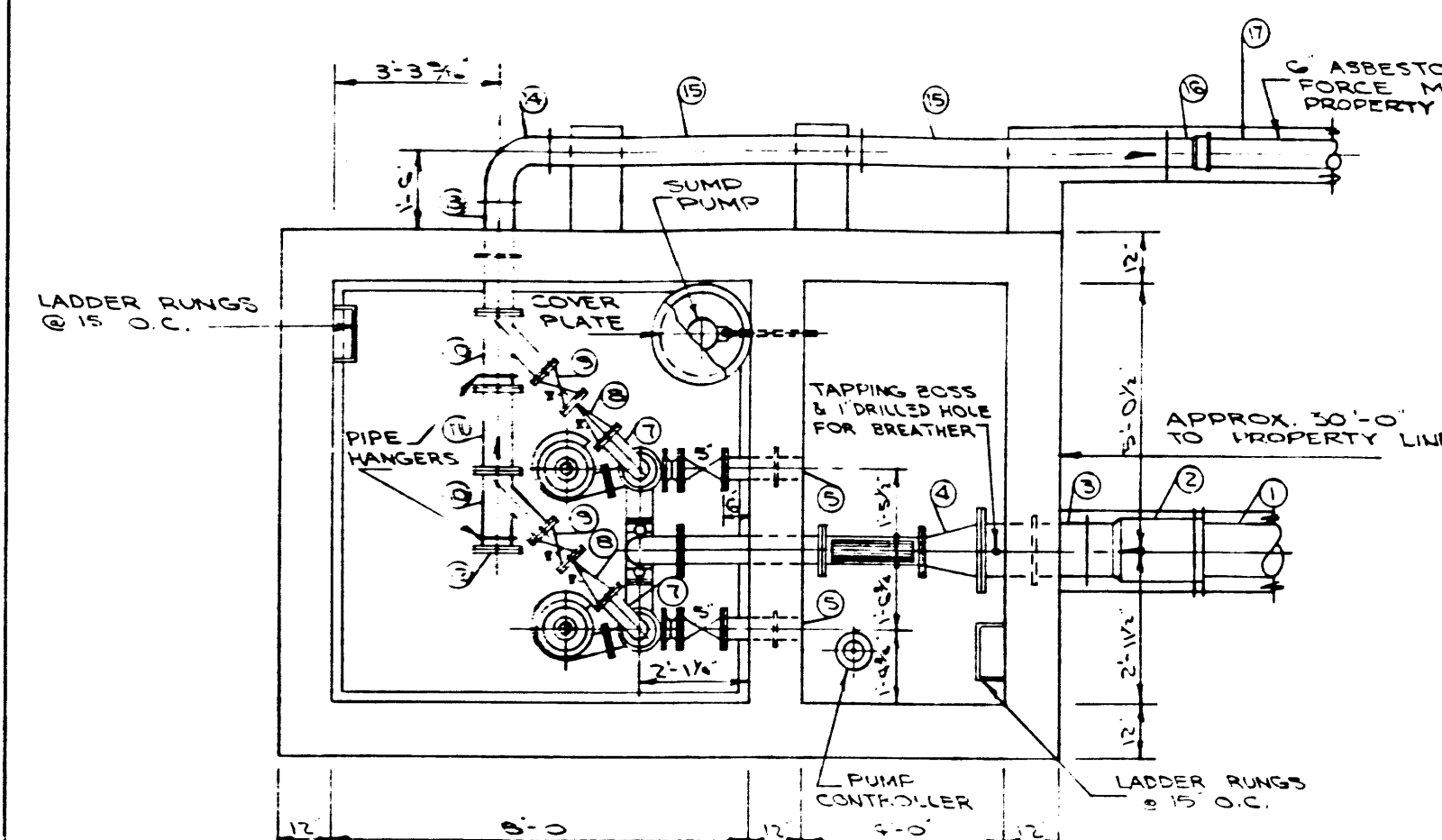




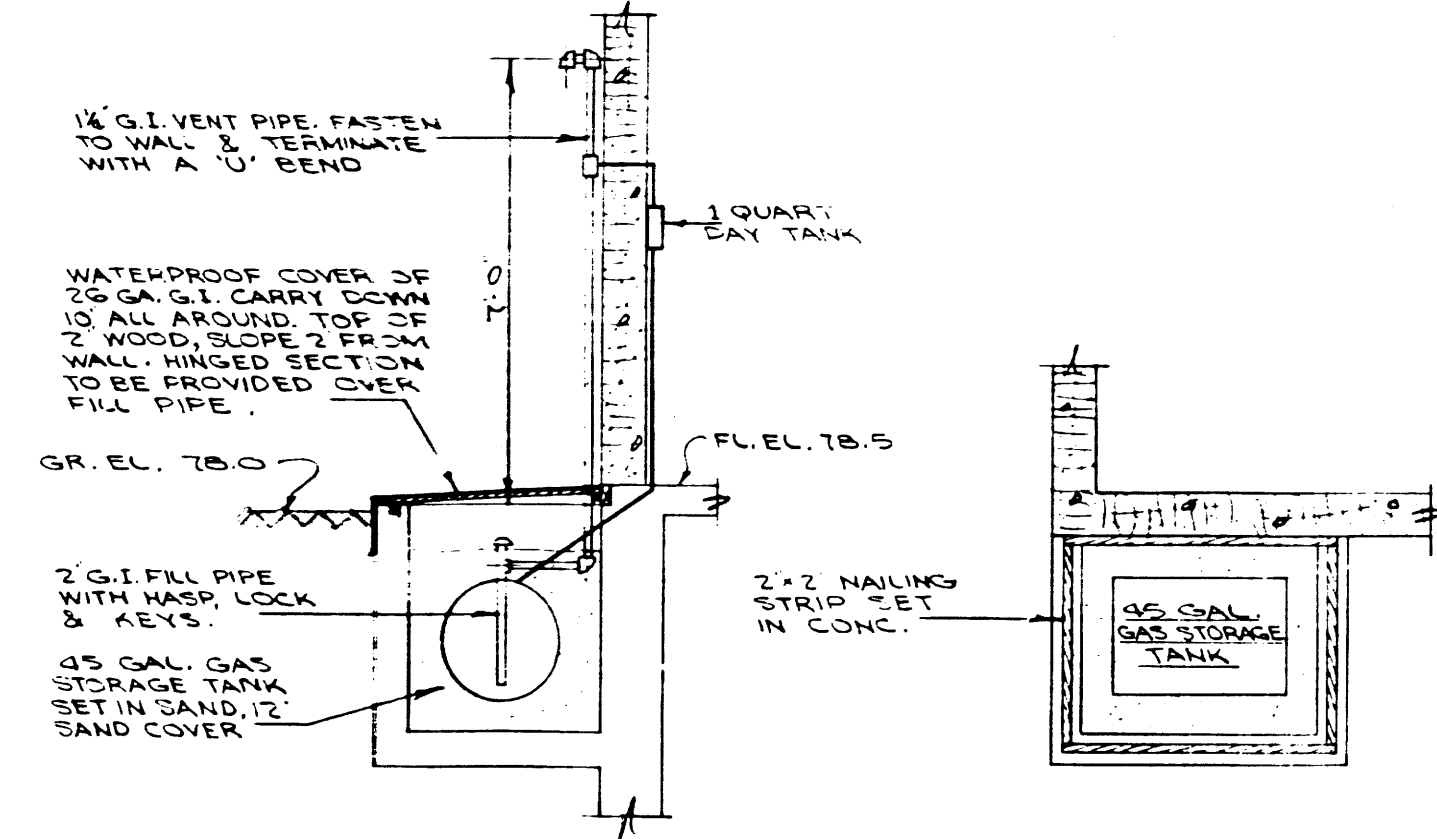
[illegible]



PLAN OF MOTOR FLOOR
SCALE: $\frac{3}{8}'' = 1'-0''$



PLAN OF PUMP FLOOR
SCALE: $\frac{3}{8}'' = 1'-0$

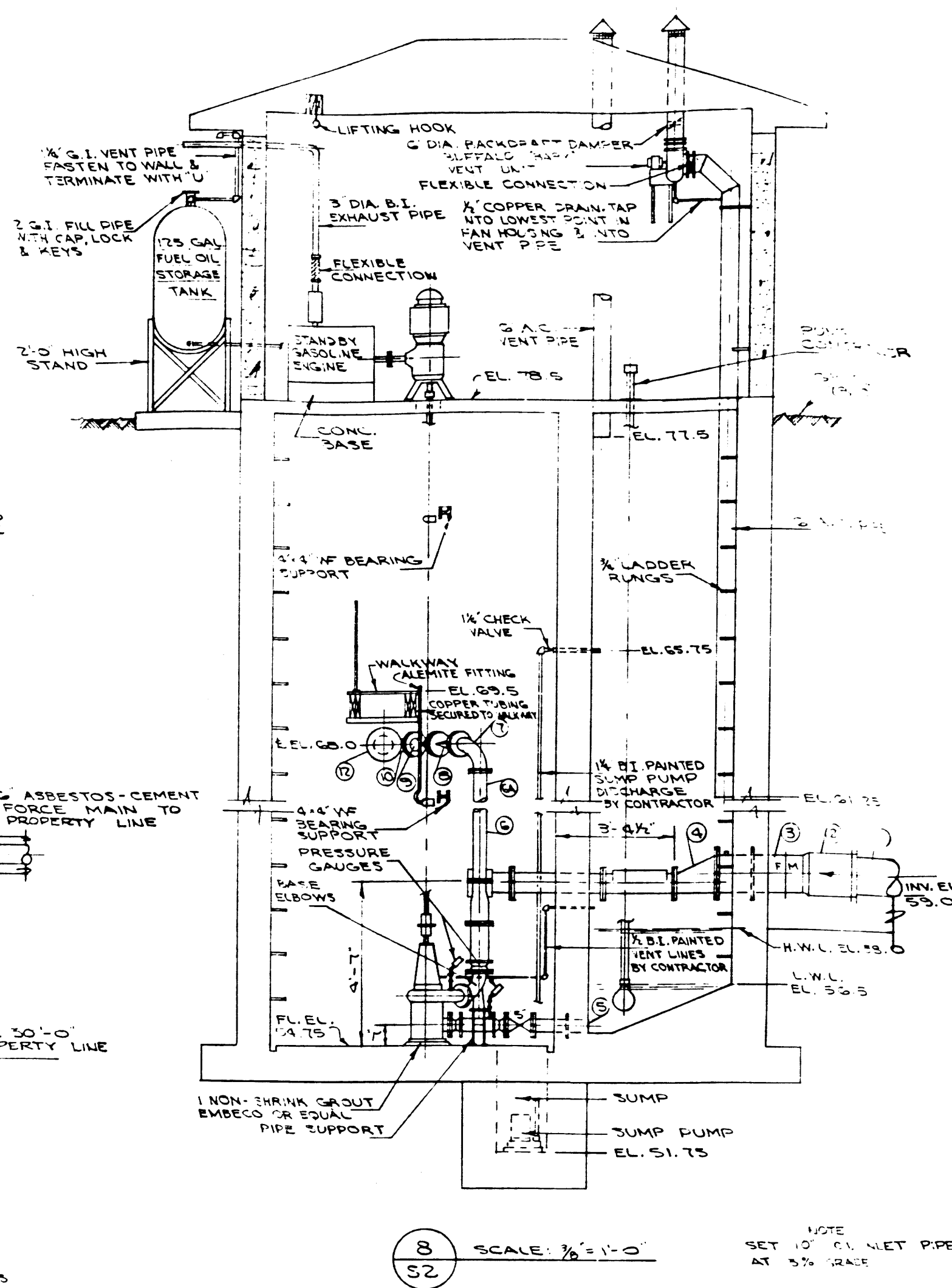


SECTION _____ PLAN _____

GAS STORAGE DETAILS

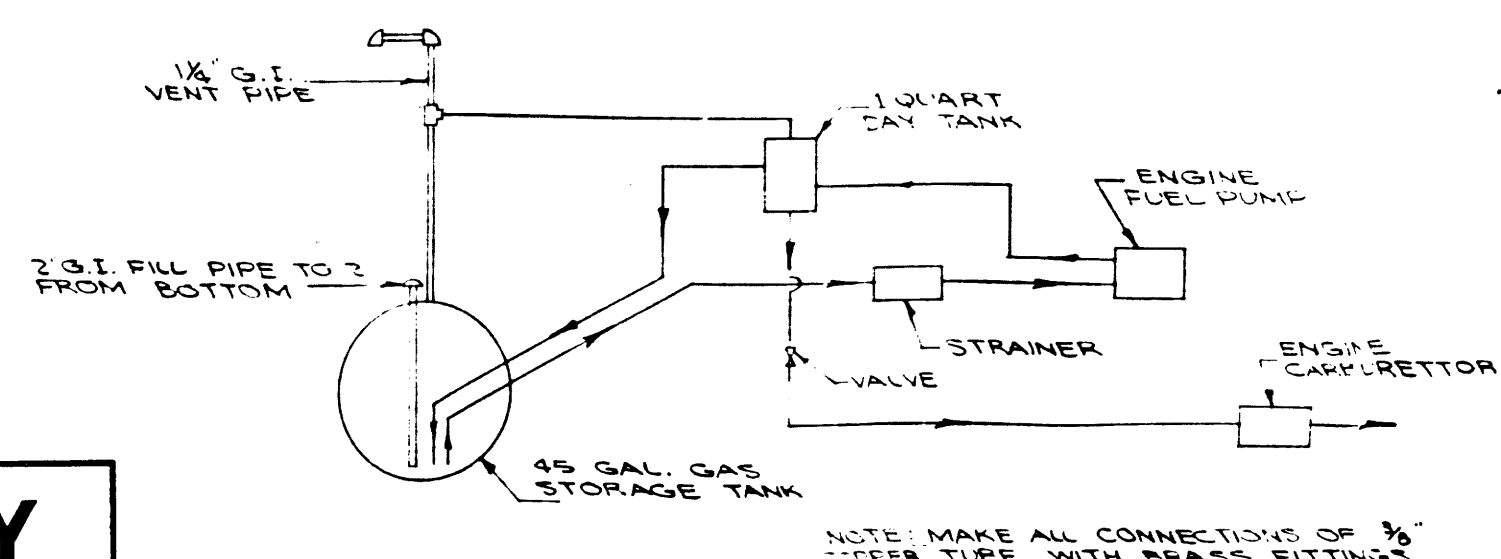
NOT TO SCALE

FOR INFORMATION ONLY



8 SCALE: $\frac{3}{8}'' = 1'-0''$
52

PIPING SCHEDULE		
MARK	QTY	SIZE DESCRIPTION
	10	APPROX. 23' 0" OF UNIV. C.I. PIPE.
2	1	UNIV. C.I. 12" DIA. ADJUSTABLE COUPLING
3	1	UNIV. C.I. FLGD. END C.I. PIPE 2'-0" LONG. CONC. RING 1'-1" FROM FLGD. END. 1 TAPPING AT FLGD. END.
4	1	FLGD. C.I. ECCENTRIC REDUCER 1'-0" LONG.
5	2	FLGD. C.I. FLANG. END C.I. PIPE 1'-0" LONG. CONC. RING. FLGD. C.I. PIPE 1'-0" LONG.
6A	2	FLGD. C.I. PIPE 0'-5" LONG.
6B	2	FLGD. C.I. PIPE 1'-10 1/2" LONG.
7	2	FLGD. C.I. LONG. RADIUS 30" ELBOW
8	2	FLGD. 3" INCH CHECK VALVE. CRANE NO. 373 OR EQUAL
9	2	FLGD. GATE VALVE. CRANE NO. 425A OR EQUAL 3/4" HANDWHEEL
10	2	FLGD. C.I. FLANG. END C.I. PIPE 1'-0" LONG.
11	6	FLGD. C.I. PIPE 1'-6" LONG.
12	1	C.I. BLIND FLANGE
13	1	FLGD. C.I. UNIV. END C.I. PIPE RING. FLGD. C.I. PIPE 2'-2" LONG. CONC. RING. FLGD. C.I. PIPE 2'-2" LONG. CONC. RING.
14	1	UNIV. C.I. 30" ELBOW.
15	2	UNIV. C.I. PIPE 0'-0" LONG.
16	1	UNIV. C.I. BELL SPFLG (M) BELL TO SUIT A.C. PIPE
17	6	APPROX 28' 0" OF LBESTOS CEMENT PIPE



SCHEMATIC DIAGRAM OF ENGINE FUEL SYSTEM

NOT TO SCALE

MANHOLE DETAIL
NOT TO SCALE

NOTES

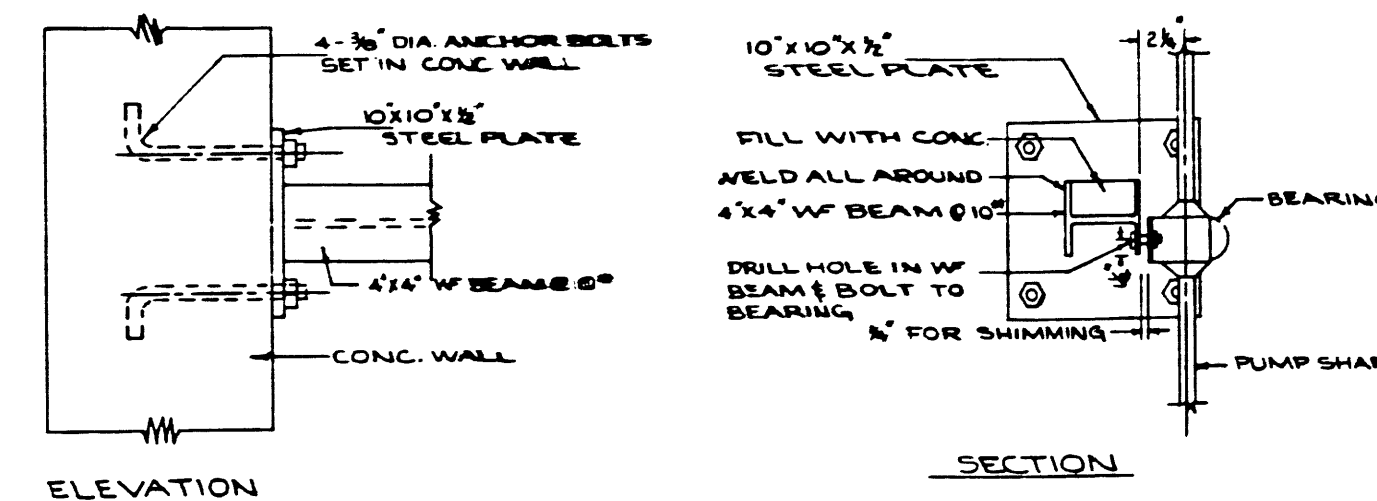
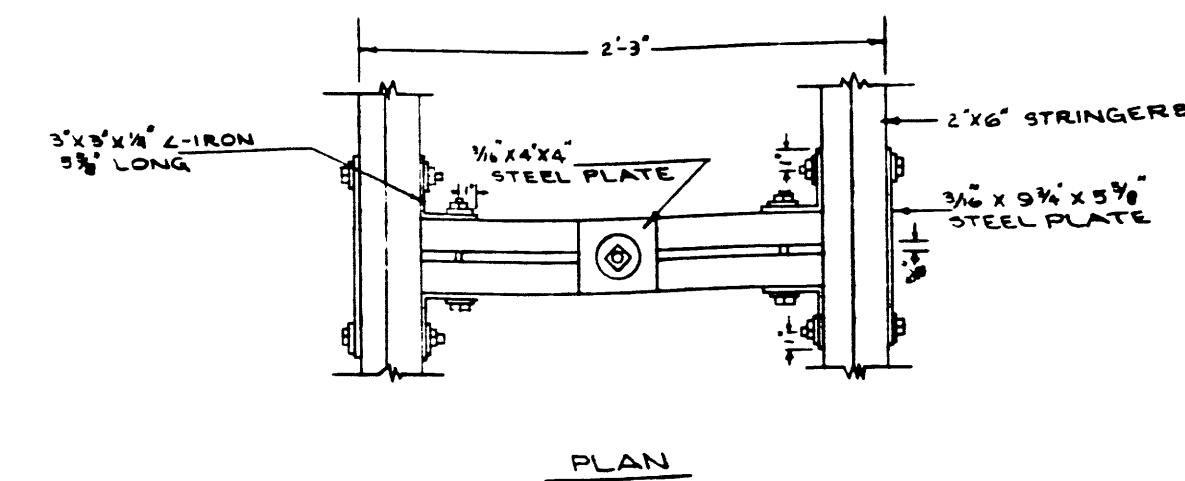
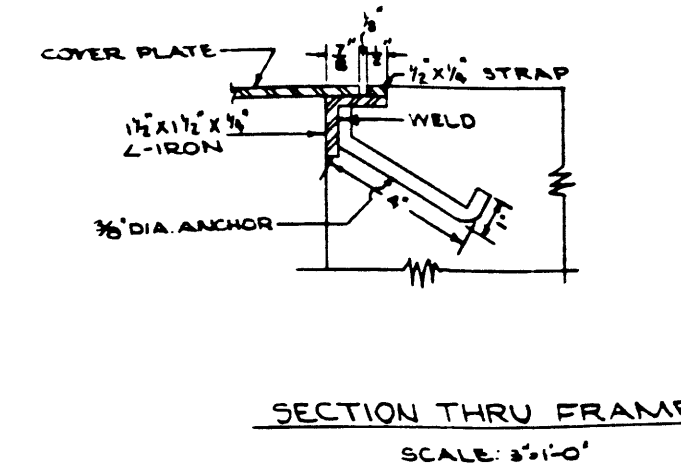
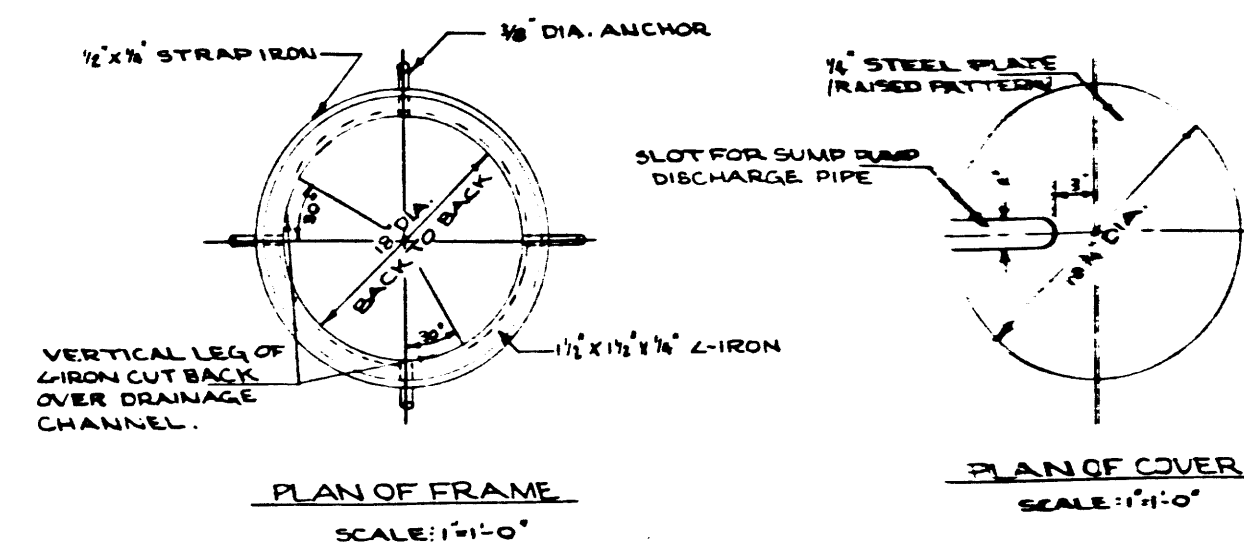
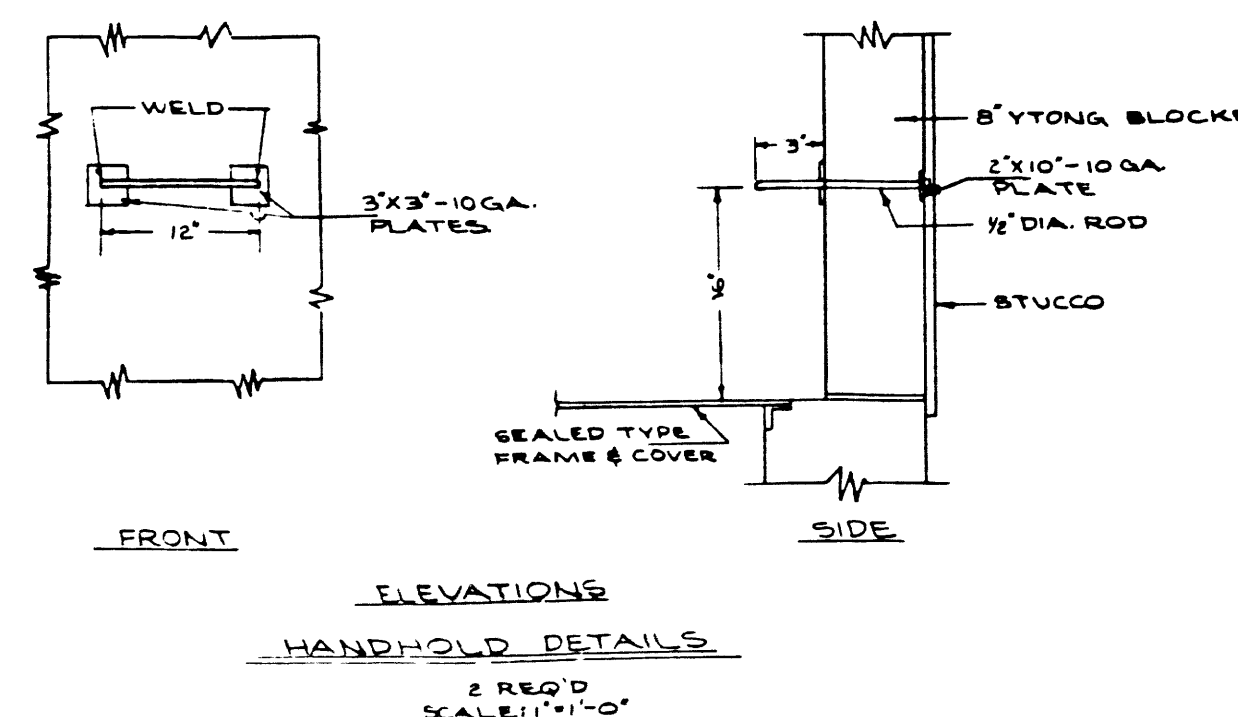
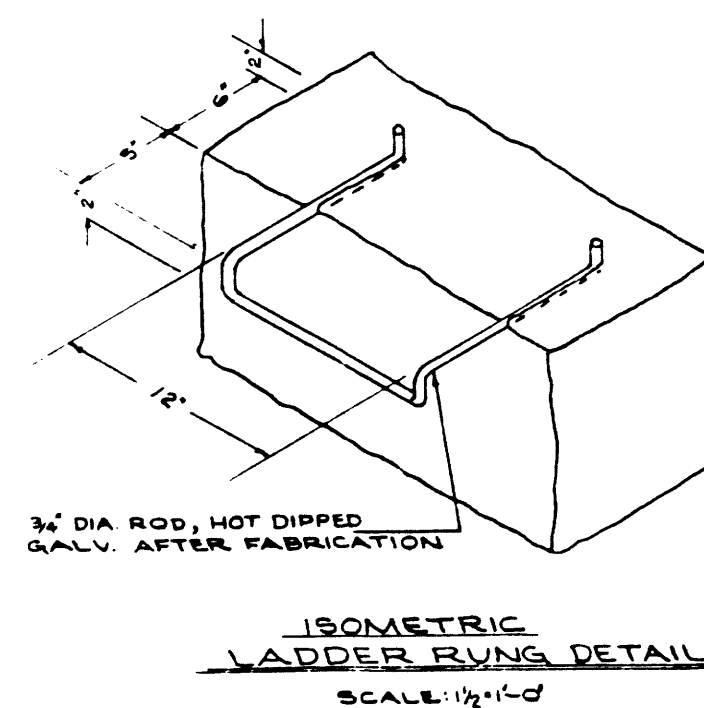
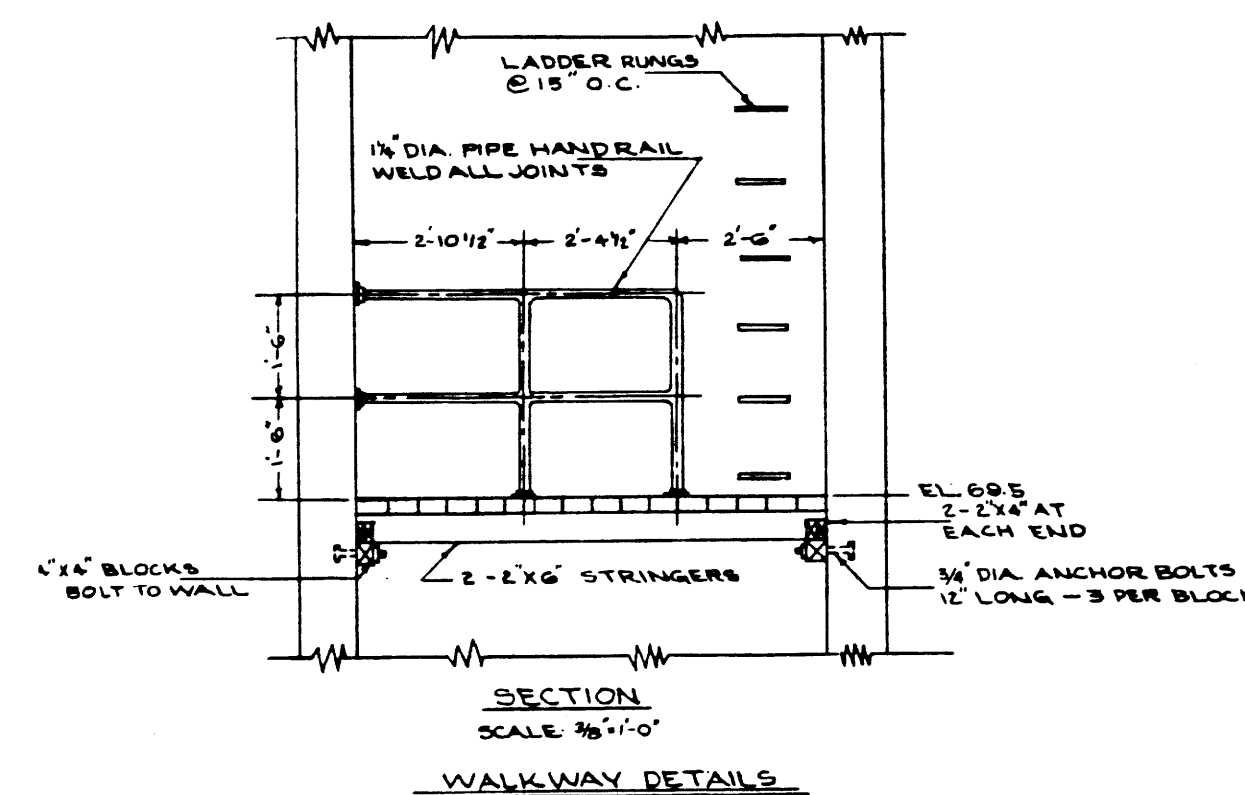
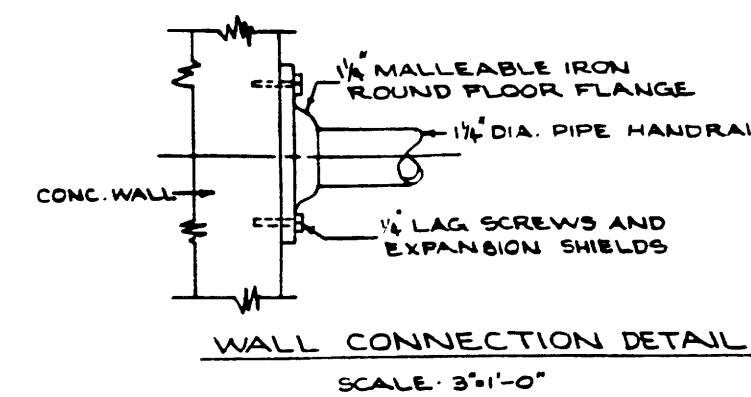
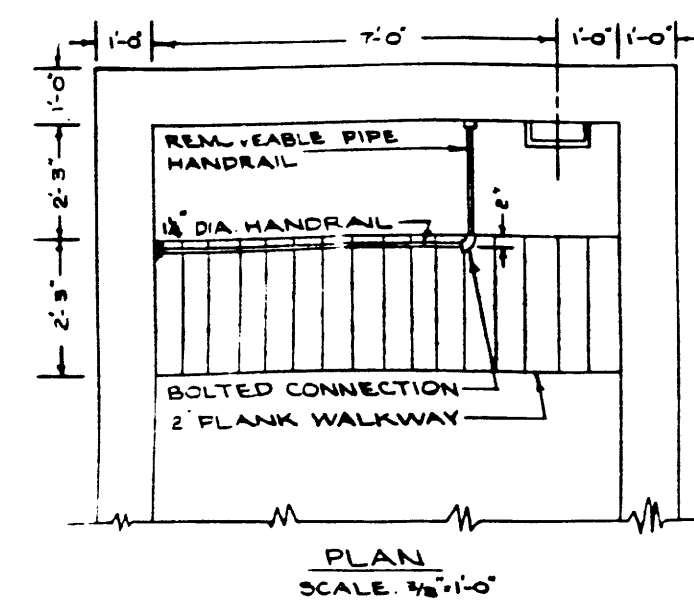
1. PIPING & EQUIPMENT ITEMS SHOWN SHADED ARE TO BE SUPPLIED BY THE OWNER.
2. LEAVE OPENINGS IN WALLS FOR ITEMS 3,5 & 13 AND GROUT IN PLACE AFTER EQUIPMENT INSTALLATION. WALLS TO BE LEFT SMOOTH & JOINTS TIGHT.
3. THE CONTRACTOR SHALL SUPPLY & INSTALL ALL FITTINGS IN THE PIPING SCHEDULE, TOGETHER WITH ALL NUTS, WASHERS AND GASKETS FOR THESE. 1/2" FLUSH-KLEEN FITTINGS SHALL BE DRAWN TO S.D.
4. FOR THE ELEVATION OF THE BEARING SUPPORTS SEE THE MANUFACTURER'S DRAWINGS.
5. THE CONTRACTOR SHALL PROVIDE A REUSABLE EXHAUST PIPE TO EXIT THE STANLEY ENGINE.

						MUNICIPALITY OF ASSINIBOIA, MAN.
						ST. CHARLES SEWAGE PUMPHOUSE
						STRUCTURAL & EQUIPMENT
					CITY DRAWING NO.	1421
					DRAWN BY: W.P. TRACED BY: CHECKED BY: F.W.C. DESIGNED BY: LAYOUT BY:	UNDERWOOD McLELLAN & ASSOCIATES LIMITED CONSULTING PROFESSIONAL ENGINEERS CALGARY - SASKATOON - WINNIPEG
					SHEET 2 OF 4	JAN. 1980 DATE
No.	DESCRIPTION	DATE	BY			
	REVISIONS			SCALE:	AS SHOWN	DRAWING No. 22 063 08-S2

MALCOLM MONTGOMERY OTTAWA
TORONTO, MONTREAL, WINNIPEG,
VANCOUVER, CALGARY, SASKATOON

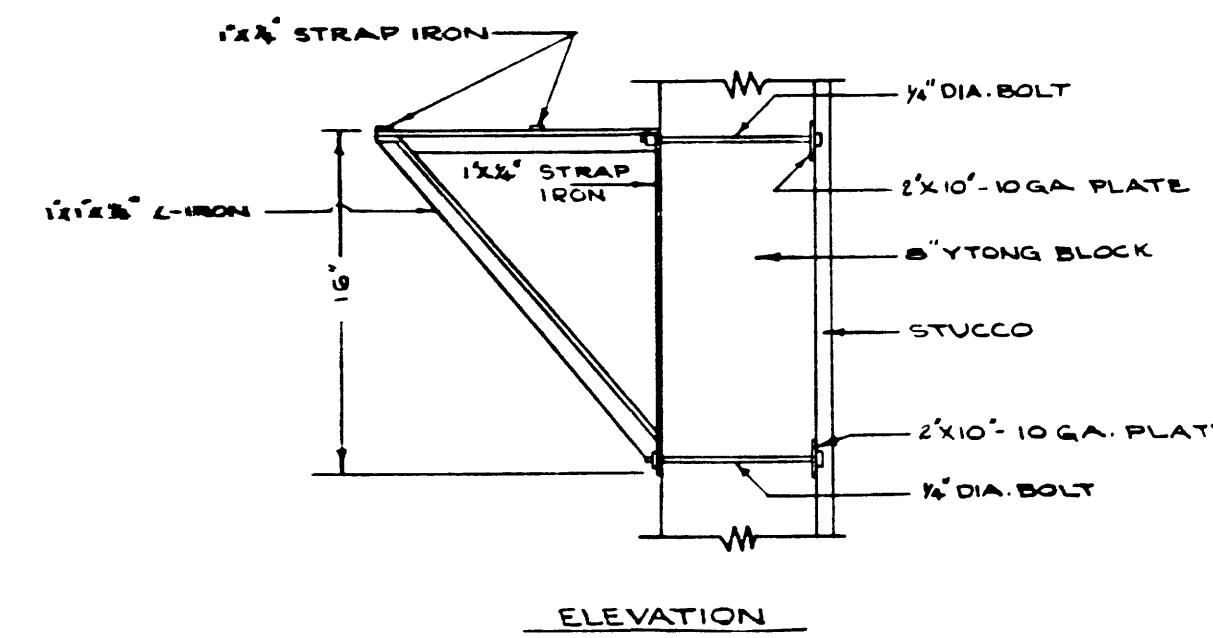
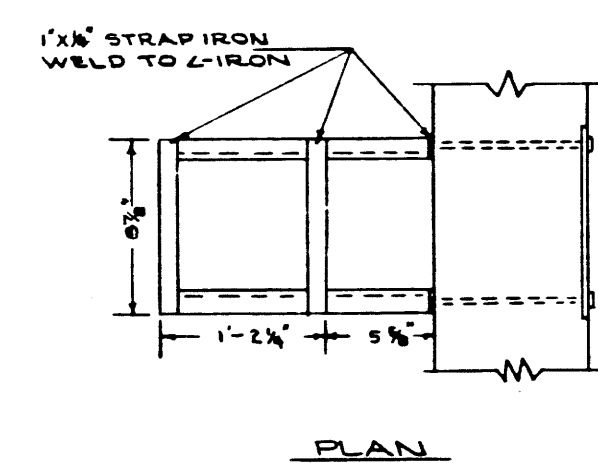
DETAILS

VERTICAL RILING SYSTEM
Refer to the drawings of the
pump body for details.
COMP. NO. 5703/027

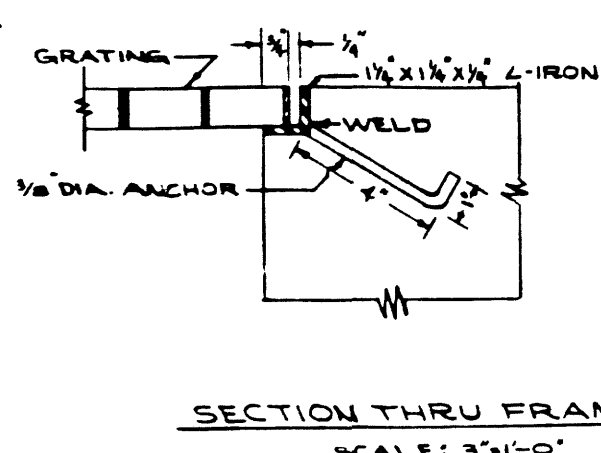
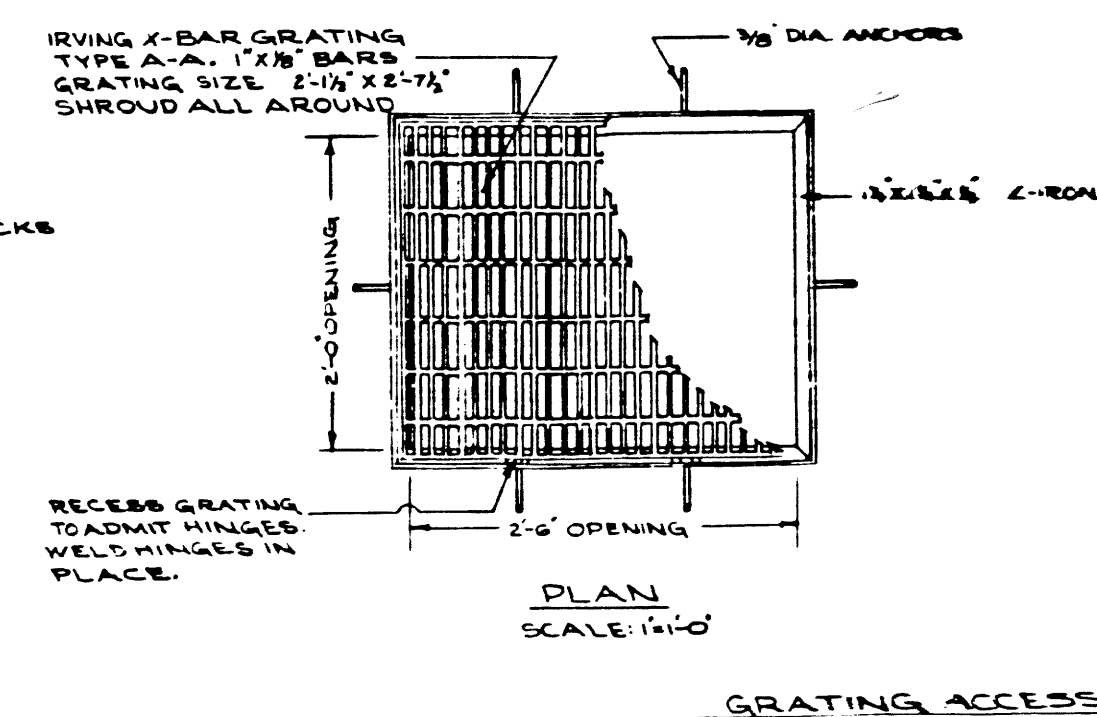
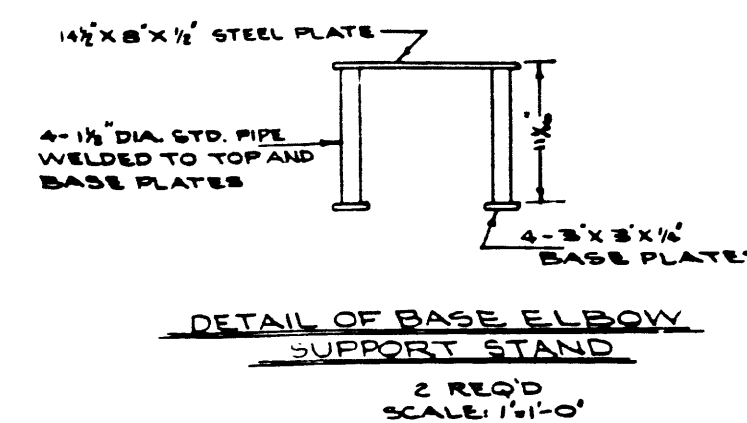
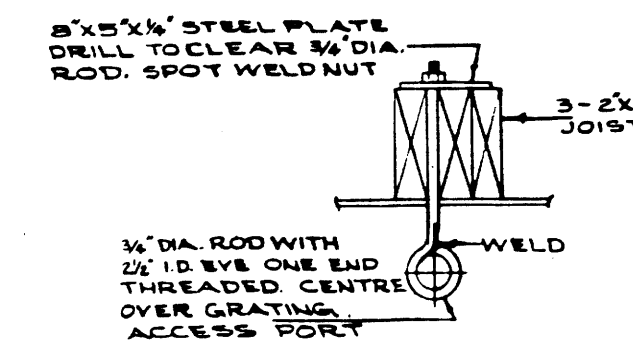


NOTES:
1. FOR # OF BEARING ELEV SEE MAIN DRG.
2. BOLT BASE PLATES TO WALL AND FIELD WELD W. BEAMS TO PLATES AFTER PUMPS ARE SET

BEARING SUPPORT DETAILS
(2 REQ'D)
SCALE: 1/2"=1'-0"



VENT EXHAUSTER SUPPORT DETAIL
SCALE: 1/2"=1'-0"



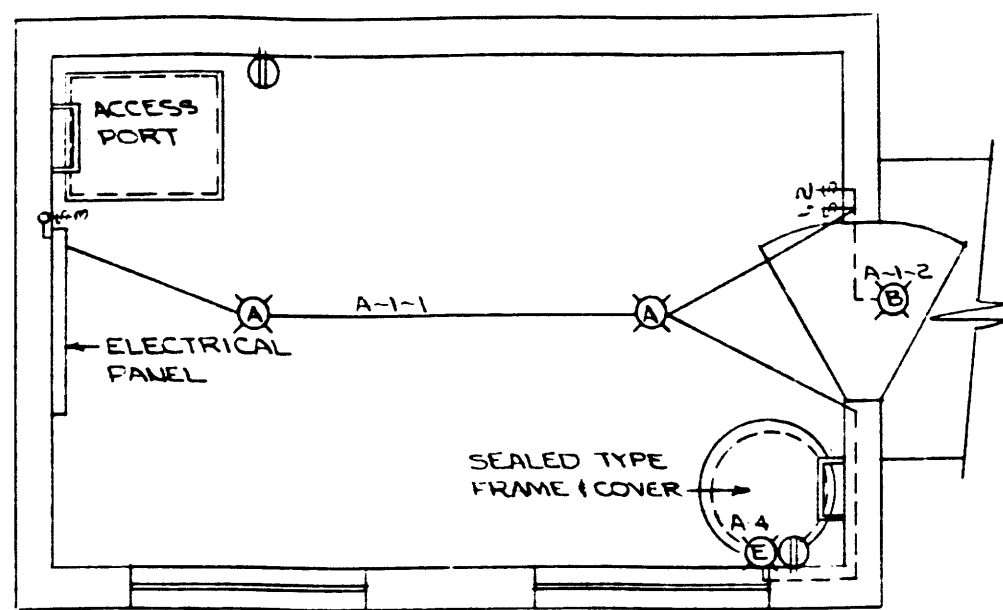
GRATING ACCESS PORT DETAILS

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

FOR INFORMATION ONLY

DETAIL NO. REFER TO DWG. DETAIL SYMBOL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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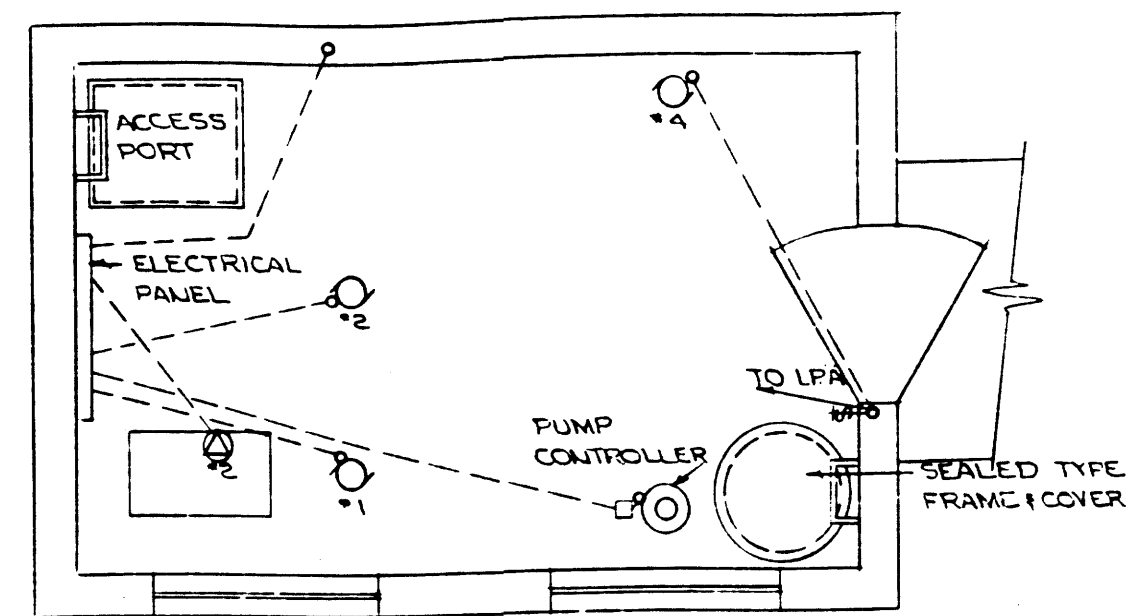
LIGHTING LAYOUT



MOTOR FLOOR PLAN
SCALE: 3/8" = 1'-0"

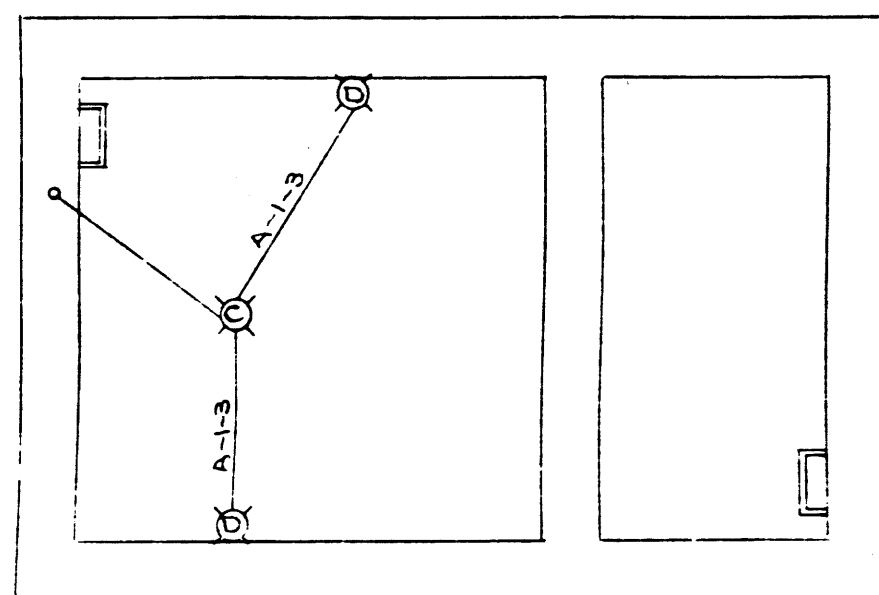
LEGEND	
4-1-3	LTG. PANEL-A BR. 1 SWITCH "3"
⊙	LTG. FIXTURE TYPE A
⊕	DUPLEX CONVENIENCE OUTLET
⊖	SINGLE POLE SWITCH "2"
---	CONDUIT IN CEILING
---	CONDUIT IN FLOOR OR WALL

POWER LAYOUT



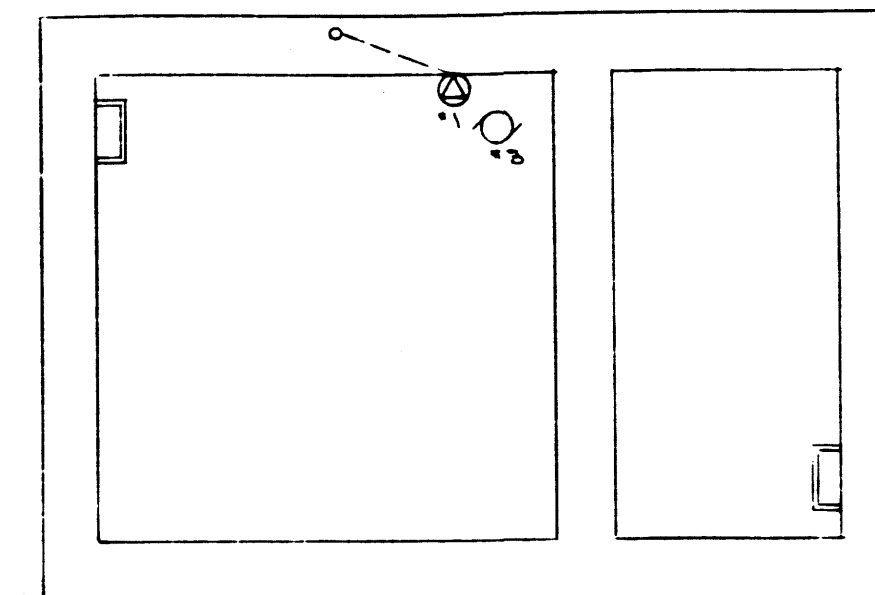
MOTOR FLOOR PLAN
SCALE: 3/8" = 1'-0"

LEGEND	
⊙	METER #1
⊕	SPECIAL PURPOSE OUTLET #1
⊖	METER SWITCH
⊗	MINI BOX
---	CONDUIT IN FLOOR OR WALL



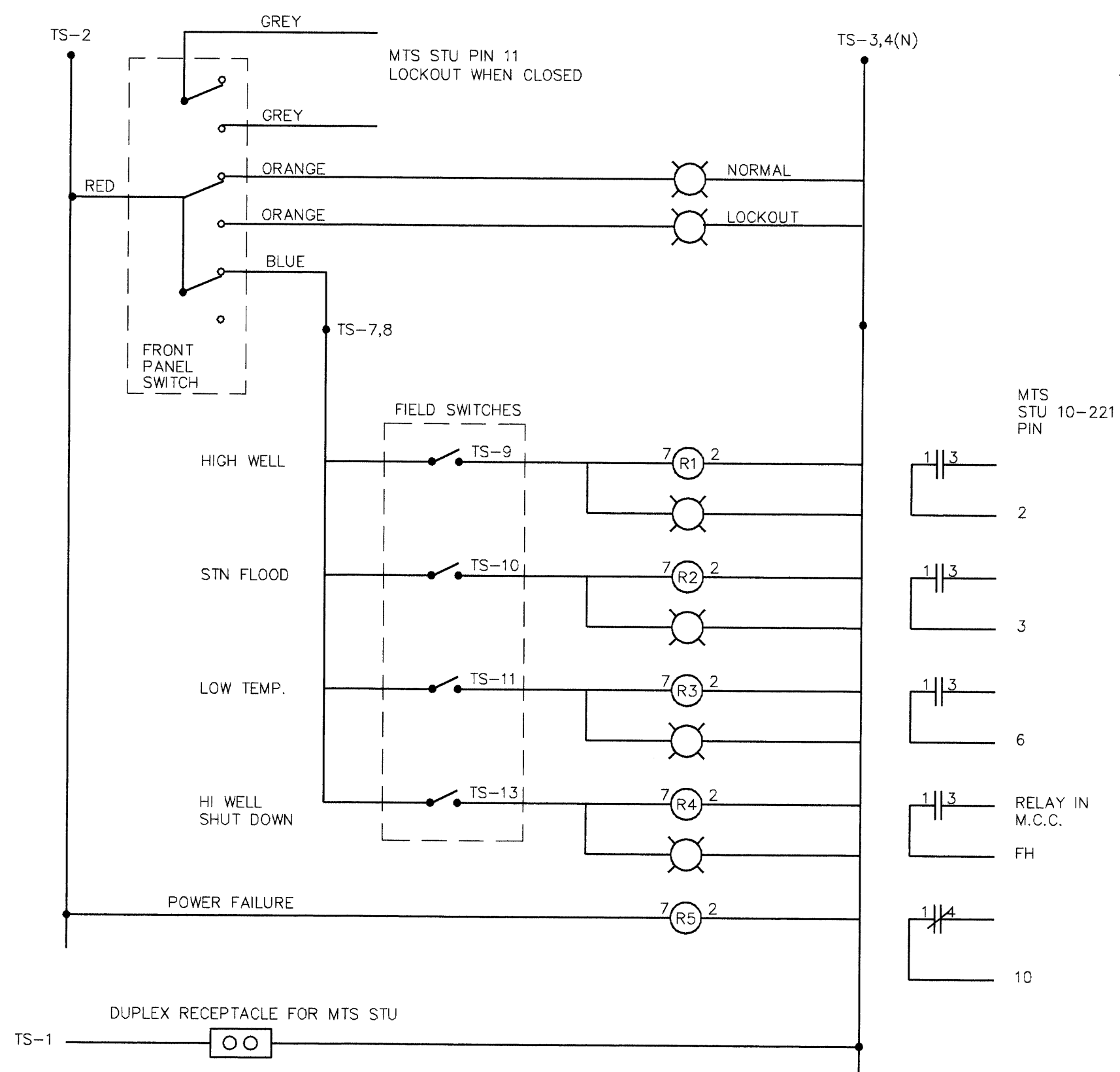
PUMP FLOOR PLAN
SCALE: 3/8" = 1'-0"

LIGHTING PANEL A				
BR. N°	LT. POLES SIZE	EQUIPMENT	WATTS	
1	1 15A	2-TYPE A, 1-B, 1-C, 2-D	300	
2	" "	2-OUTLETS (SP. OUT. #2)		
3	" "	SP. OUT. #1		
4	" "	MOTOR #4 & 1-E		
5	" "	SPARE		
6	" "	"		

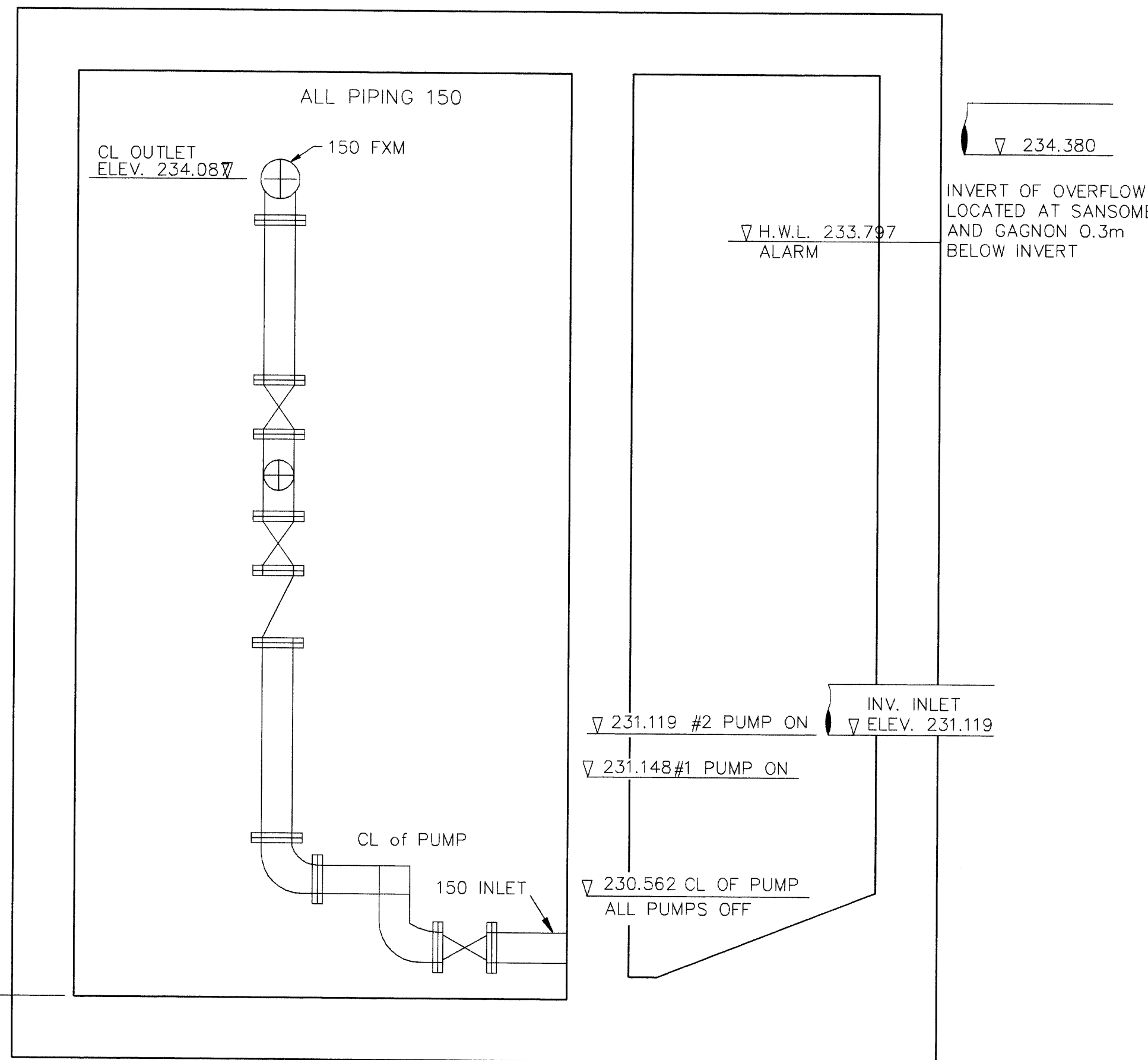
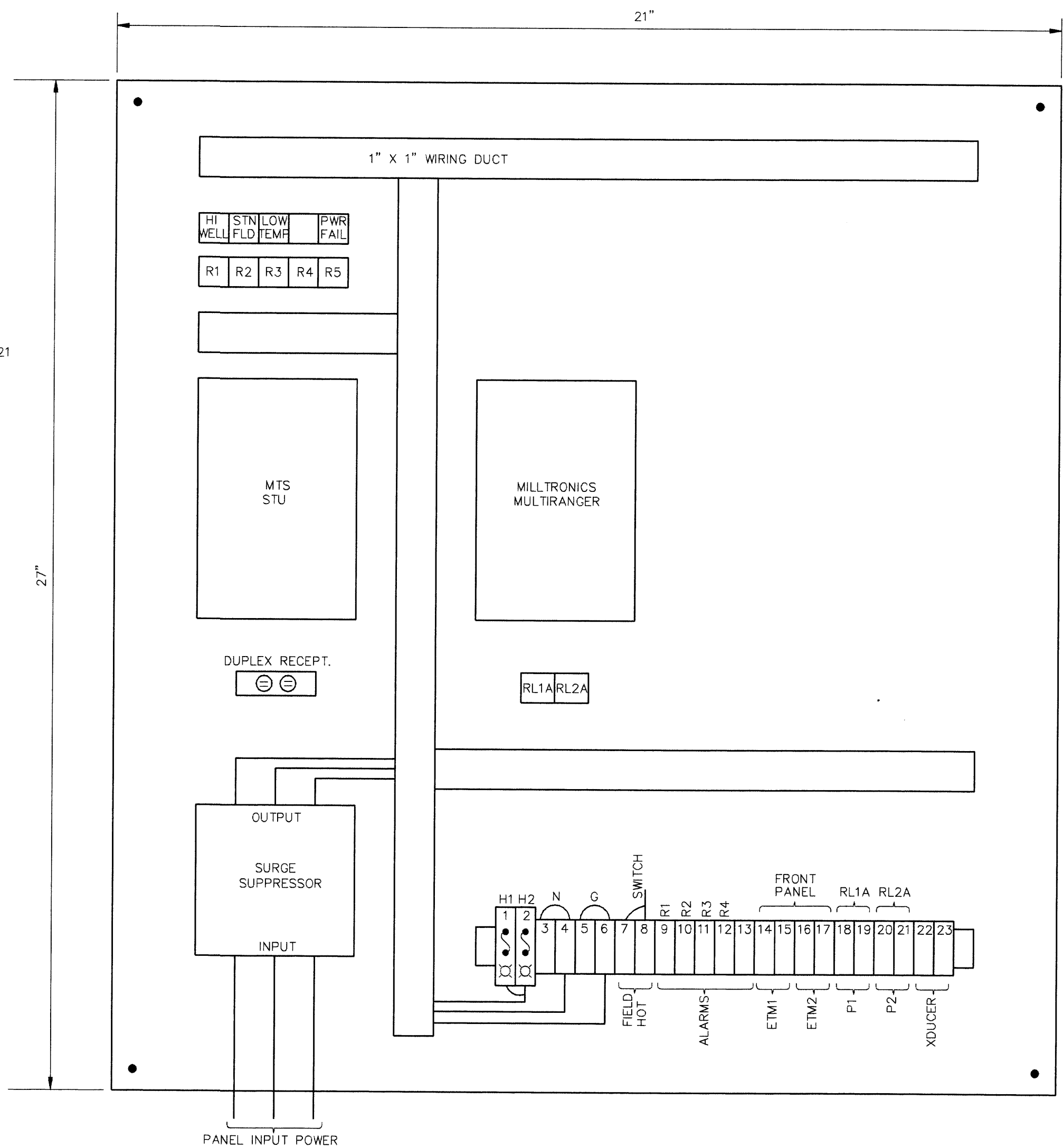


MOTOR SCHEDULE						
MOTOR NO.	HP	PHASE	VOLT	POWER SOURCE	APPLICATION	CONTROL LOCATION
1	7 1/2	3	220	SPLITTER	SEWAGE PUMP	COMB. STARTER
2	7 1/2	3	220	SPLITTER	SEWAGE PUMP	" "
3	1/4	1	110	LPA	SUMP PUMP	THERMAL SWITCH
4	1/2	1	110	LPA	EXHAUST FAN	" "
5						
6						
7						
8						
9						
10						
11					SUMP PUMP	
12					TRICKLE CHARGER	
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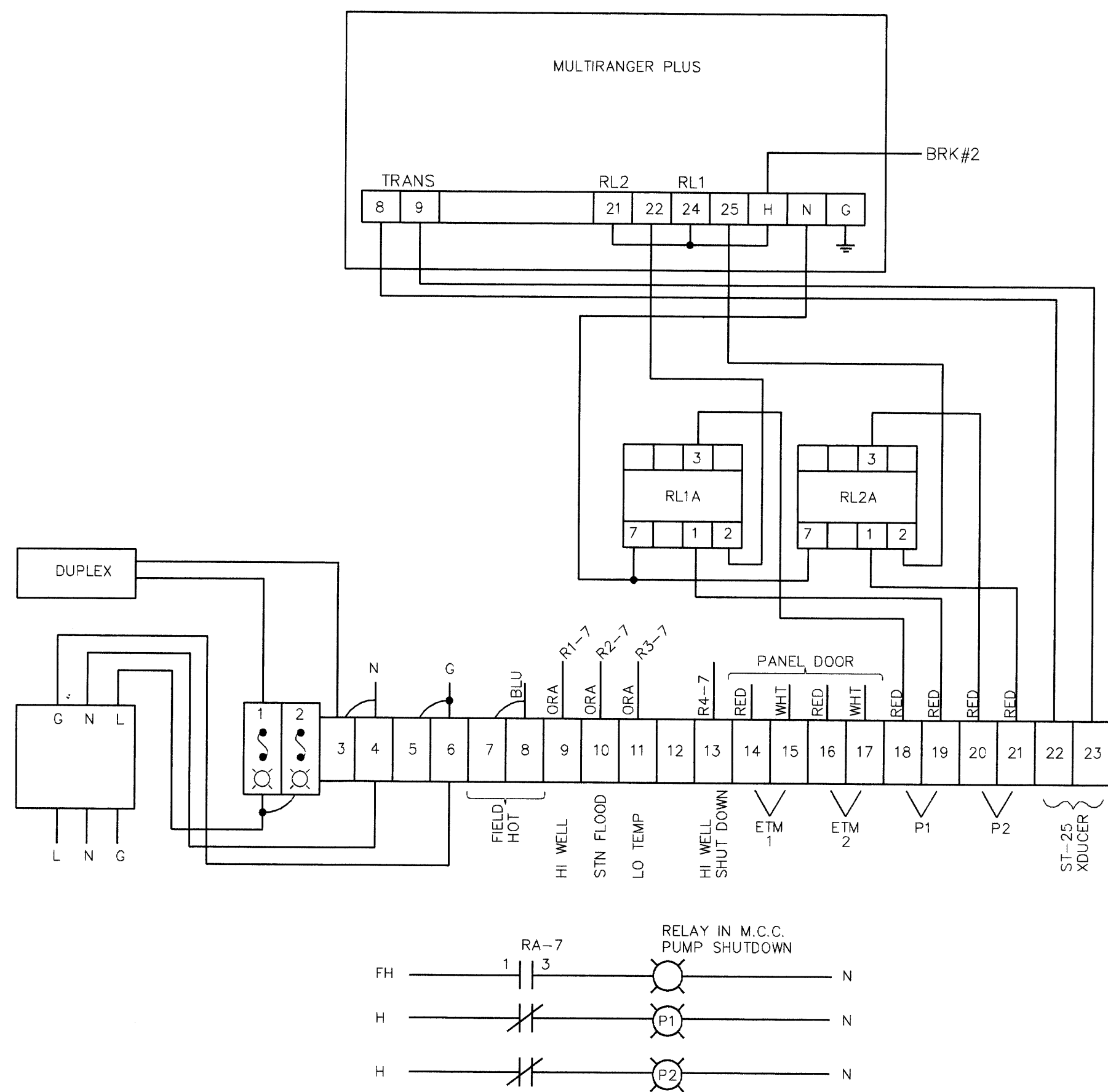
ALARM SCHEMATIC



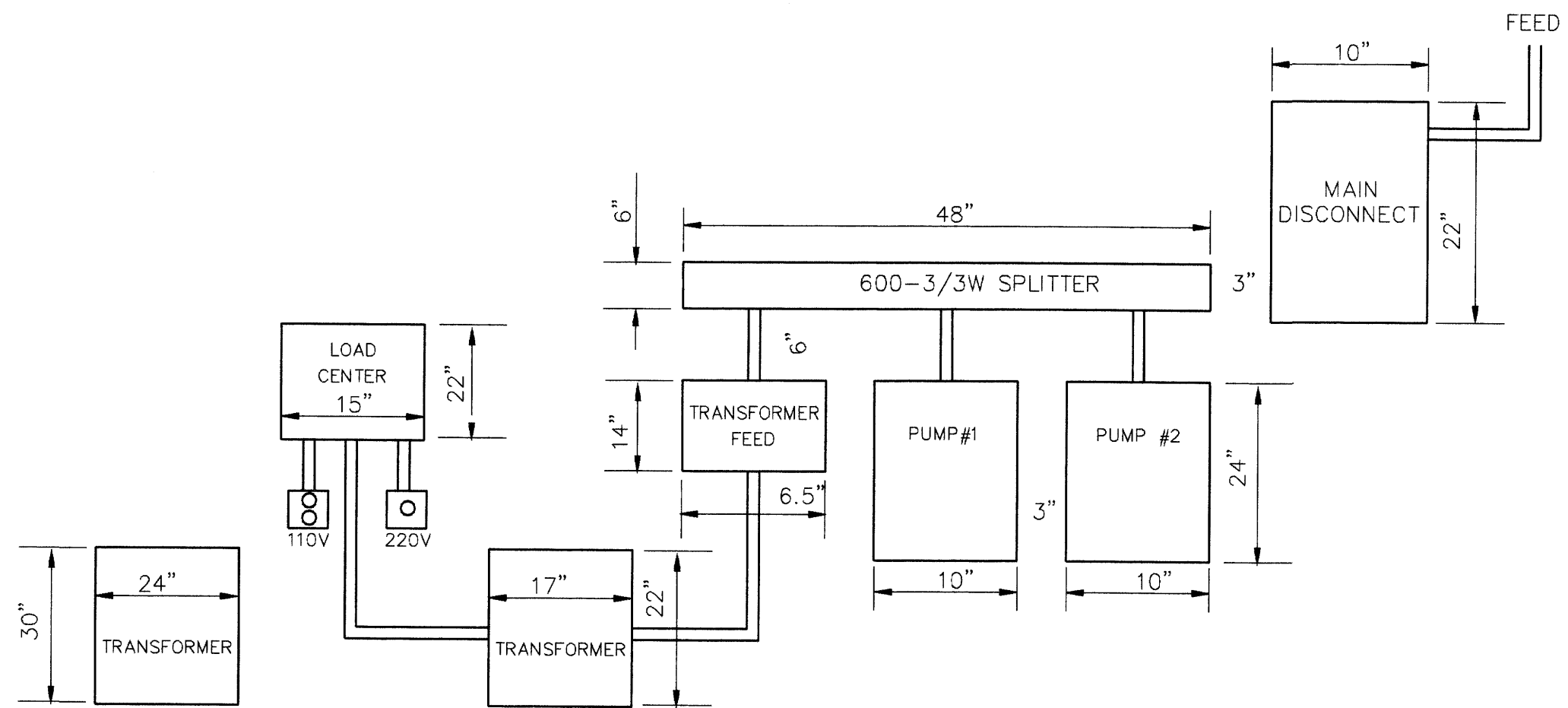
BACK PANEL LAYOUT



WIRING DIAGRAM



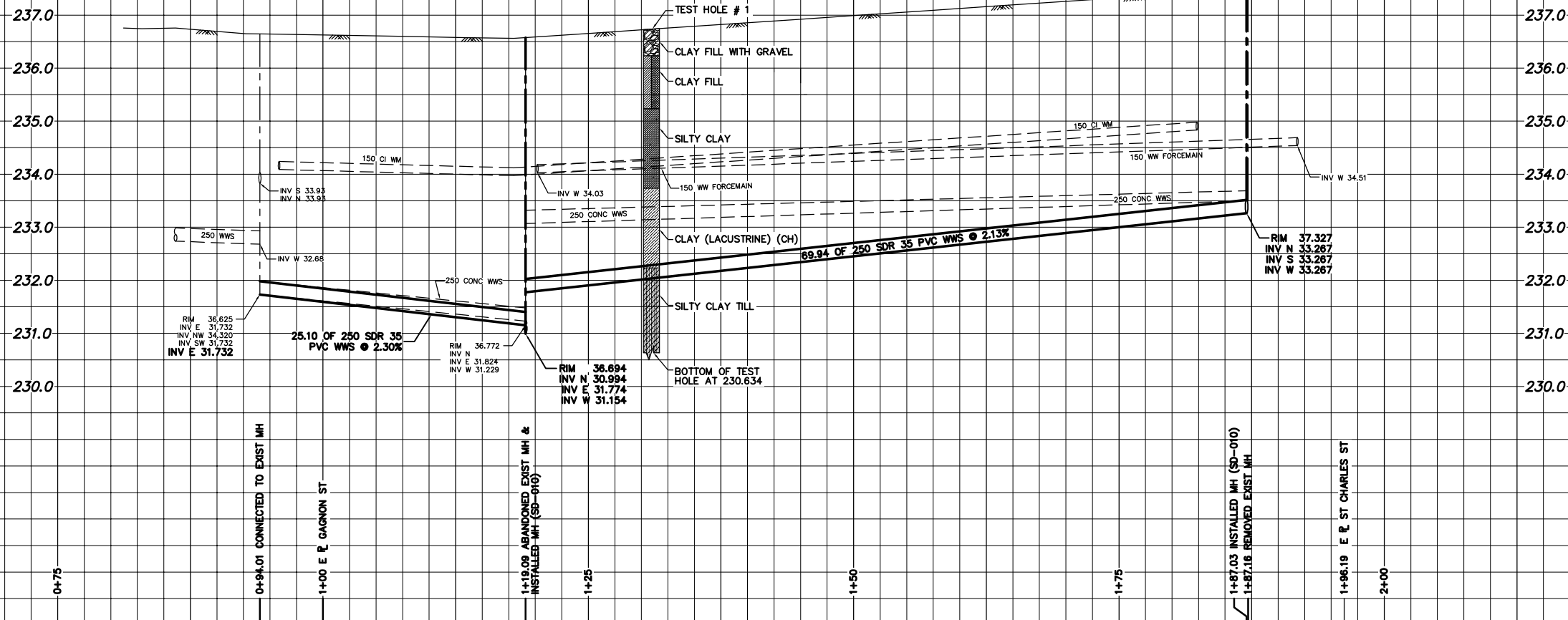
ELECTRICAL DISTRIBUTION LAYOUT



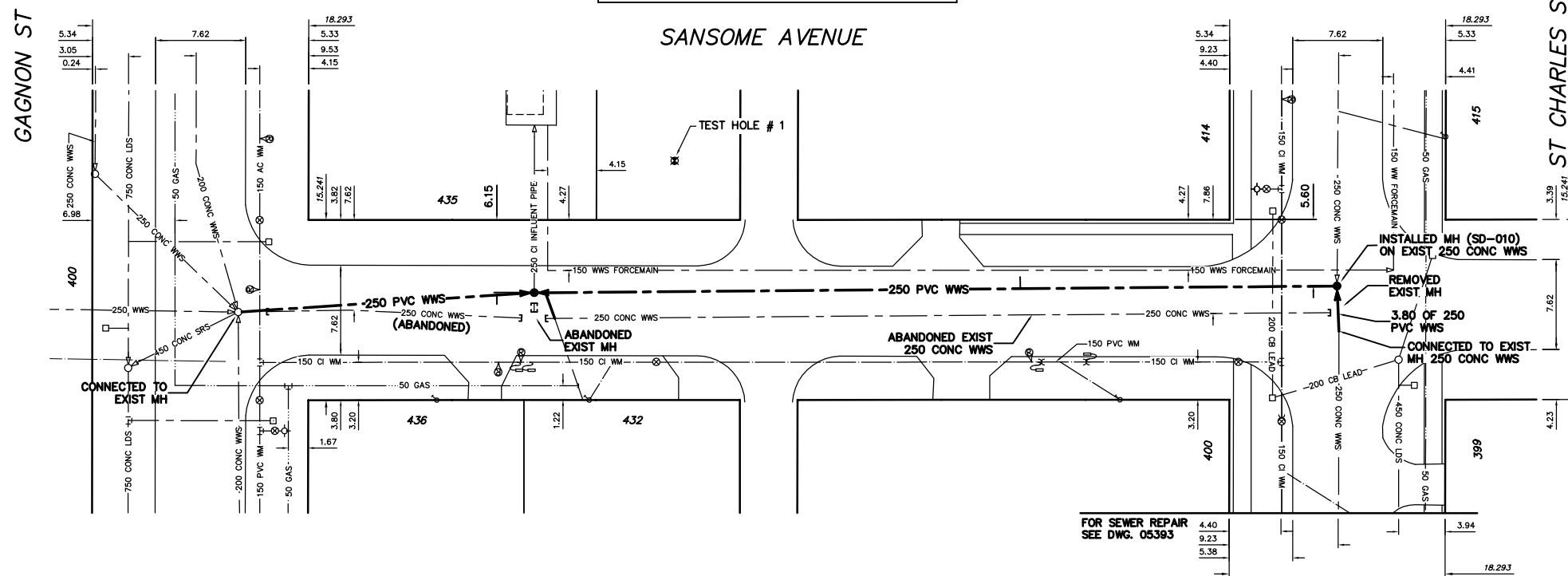
SUMP DIAGRAM

B.M. ELEV.			ENGINEER'S SEAL		THE CITY OF WINNIPEG WORKS AND OPERATIONS DIVISION WATERWORKS WASTE AND DISPOSAL DEPARTMENT	
DESIGNED BY D. METANCZUK			CHECKED BY D. METANCZUK		ST. CHARLES LIFT STATION	
DRAWN BY M.B. DAHL			APPROVED BY		ELECTRICAL AND CONTROL UPGRADING	
HOR. SCALE VERTICAL N.T.S.			RELEASED FOR CONSTRUCTION		SHEET OF	
NO. REVISIONS			DATE		PLOT DATE NOVEMBER 8, 1995	
DATE			NOVEMBER 1995		CITY DRAWING NUMBER	
					1450	

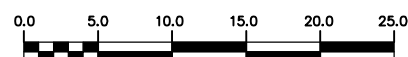
Job # SP 16695



NOTE: CHAINAGES SHOWN ARE ALONG
N. R. OF SANSOME AVE



SEWER SERVICE INFORMATION			
ADDRESS	SIZE	JUNCTION TIE	REMARKS
436 SANSOME RESIDENTIAL	-	UNKNOWN	OUTSIDE RENEWAL LIMITS
432 SANSOME AVE RESIDENTIAL	150	4.98 E OF WL	SERVICE RECONNECTED
399 ST CHARLES RESIDENTIAL	-	67.0 W OF MH AT ST. CHARLES	OUTSIDE RENEWAL LIMITS
400 ST CHARLES RESIDENTIAL	-	UNKNOWN	OUTSIDE RENEWAL LIMITS
414 ST CHARLES RESIDENTIAL	150	-	SERVICE RECONNECTED
415 ST CHARLES RESIDENTIAL	-	26.80 W OF MH AT ST. CHARLES	OUTSIDE RENEWAL LIMITS
	-	67.0 S OF 1ST MH N OF SANSOME	OUTSIDE RENEWAL LIMITS



CONTRACTOR : C.O.W. CENTRALIZED SERVICES
PROJECT COMPLETION DATE: 2004 08 16±

RECORD DRAWING
WATER AND WASTE DEPARTMENT

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

200 WM	WATERMAIN	200 WM	SL, HYDRO	150 WM	WATERMAIN	150 WM
+	HYDRANT	+	MTS	+	HYDRANT	+
o	VALVE	o	TRAFFIC SIGNALS	x	VALVE	x
525 LDS	LAND DRAINAGE SEWER	525 LDS	GAS	300 LDS	LAND DRAINAGE SEWER	300 LDS
375 WWS	WASTEWATER SEWER	375 WWS	SURVEY BAR	250 WWS	WASTEWATER SEWER	250 WWS
o	MANHOLE	o	FENCE	x	o	o
o	CATCH BASIN	o	POLE - HYDRO, MTS	o	GROUND ABOVE PIPE	o
o	CURB INLET	o	CURB STOP	o	? DITCH (SOUTH & EAST)	o
o	JUNCTIONS	o	GUY ANCHOR	o	GUTTER (NORTH & WEST)	o
o	CULVERT	o	LIGHT STANDARD	o		o
o	ANODE	o	TREE	o		o
EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING

LOCATION APPROVED UNDERGROUND STRUCTURES	
SUPV. U/G STRUCTURES COMMITTEE	DATE
NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.	

B.M. ELEV.	FIELD BOOK #
POSTED TO LBS	
1	REVISED TO RECORD DRAWING
NO.	REVISIONS

CITY OF WINNIPEG WATER AND WASTE ENGINEERING DIVISION	
DESIGNED BY DS	CHECKED BY
DRAWN BY WKT/PL	APPROVED BY KZ
HOR. SCALE 1:250	RELEASED FOR CONSTRUCTION
VERTICAL 1:50	
DATE 2004 06 16	DATE

ENGINEER'S SEAL	
ORIGINAL MYLAR SIGNED BY K.R. ZUREK 08/09/02	
TENDER No. FILENAME : 05394.dwg PLOT DATE: 2008.08.25	

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT	
2004 SEWERMAIN RENEWALS AND ASSOCIATED WORKS SANSOME AVENUE 60 m WEST OF ST CHARLES STREET TO ST CHARLES STREET	SHEET 2 OF 2 CITY DRAWING NUMBER 05394