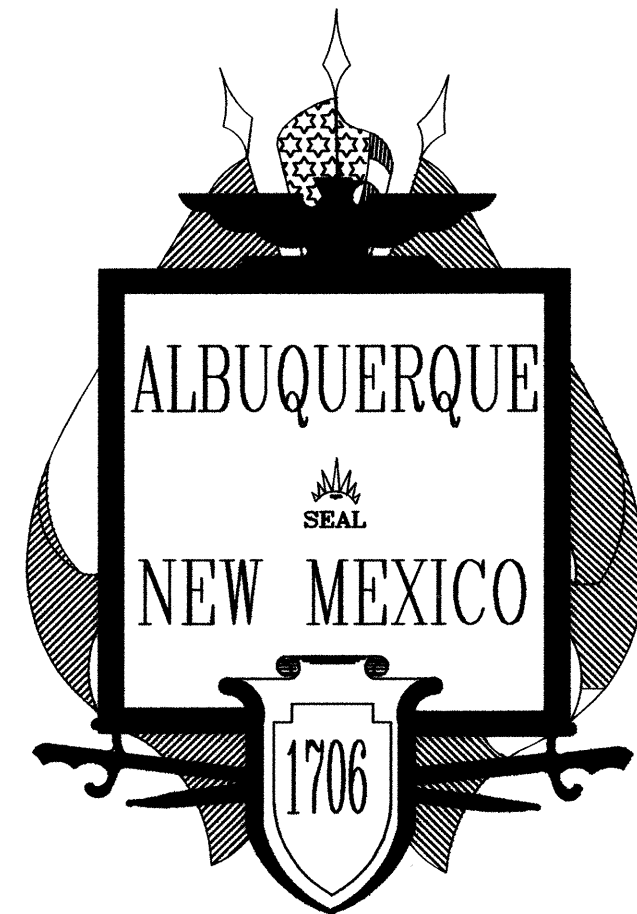


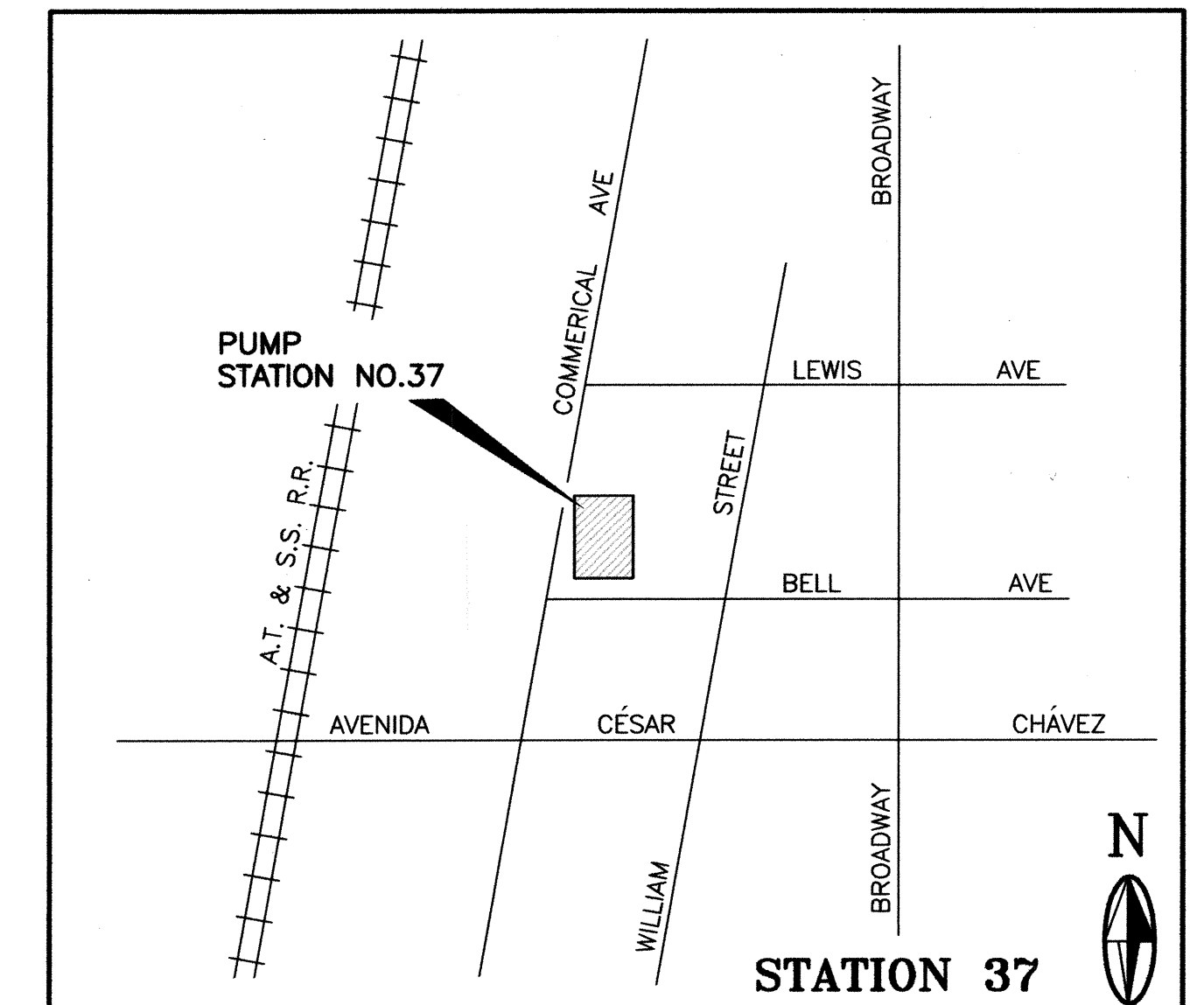


CITY OF Albuquerque

CITY OF ALBUQUERQUE, NEW MEXICO
PUBLIC WORKS DEPARTMENT

STORM WATER PUMP STATION NO. 37 BELL REHABILITATION

JULY 2002



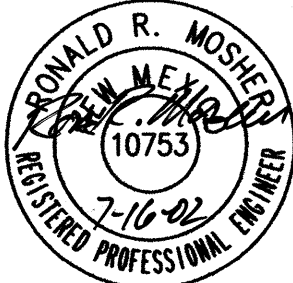
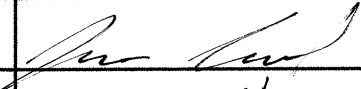
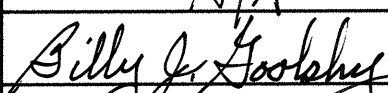
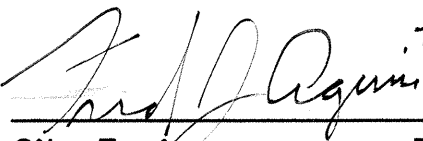
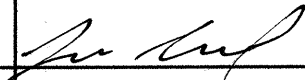
ZONE ATLAS: MAP L-14

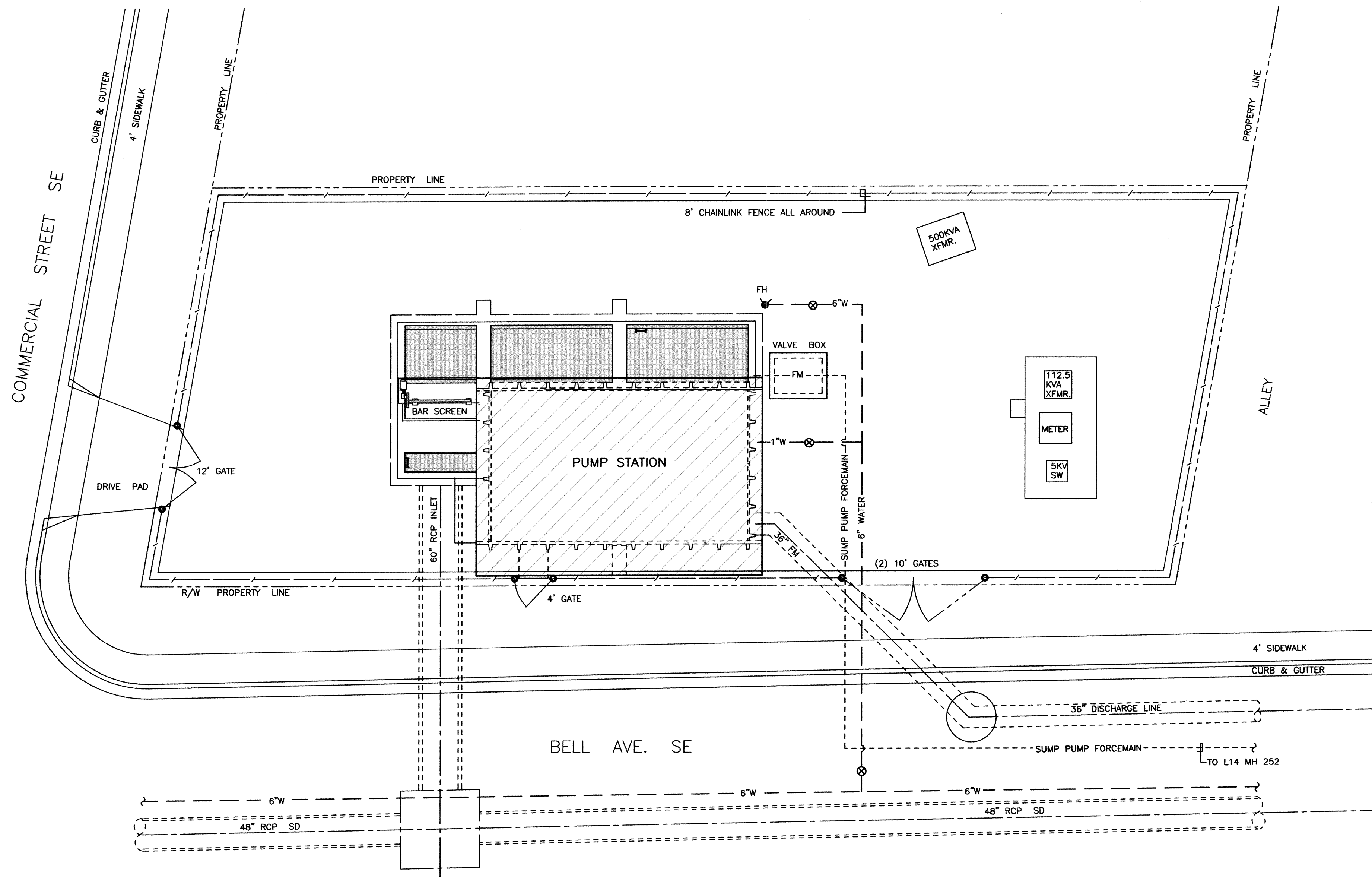
LOCATION MAP
N.T.S.

INDEX TO DRAWINGS

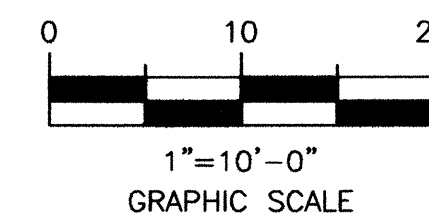
SEQ.	SHEET	TITLE	SEQ.	SHEET	TITLE	SEQ.	SHEET	TITLE
1	C-01	TITLE SHEET INDEX TO DRAWINGS	5	E-01	ELECTRICAL LEGEND	19	I-01	BELL STATION #37 INSTRUMENTATION LEGEND
2	C-02	EXISTING BELL PUMP STATION NO. 37 - LOCATION MAP & SITE PLAN	6	E-02	ELECTRICAL ONE-LINE DIAGRAM	20	I-02	BELL STATION #37 ELECTRICAL P & ID DIAGRAM, SHEET 1
3	C-03	BELL PUMP STATION NO. 37 - PUMP AND PIPING MODIFICATIONS PLANS, SECTION AND DETAILS	7	E-03	BELL STATION #37 ELECTRICAL SITE PLANS	21	I-03	BELL STATION #37 ELECTRICAL P & ID DIAGRAM, SHEET 2
4	C-04	BELL PUMP STATION NO. 37 - DISCHARGE HEADER DETAIL AND MODIFIED PUMP ROOM CATWALK PLAN	8	E-04	BELL STATION #37 MOTOR ROOM ELECTRICAL REMOVALS AND TEMPORARY CONNECTIONS	22	I-04	BELL STATION #37 ELECTRICAL P & ID DIAGRAM, SHEET 3
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			10	E-06	BELL STATION #37 CONTROL LAYOUT AND CONDUIT PLAN	24	I-06	BELL STATION #37 LOOP DIAGRAMS, SHEET 1
			11	E-07	BELL STATION #37 LIFT PUMP #1 SCHEMATICS	25	I-07	BELL STATION #37 INSTALLATION DETAILS
			12	E-08	BELL STATION #37 LIFT PUMP #2 SCHEMATICS			
			13	E-09	BELL STATION #37 LIFT PUMP #3 SCHEMATICS			
			14	E-10	BELL STATION #37 SUMP PUMP CONTROL SCHEMATIC			
			15	E-11	BELL STATION #37 BARSCREEN DIAGRAMS			
			16	E-12	BELL STATION #37 ELECTRICAL DETAILS			
			17	E-13	BELL STATION #37 LIFT PUMP #1 CONNECTION DIAGRAMS AND ALARM			
			18	E-14	BELL STATION #37 LIFT PUMP #2 AND #3 CONNECTION DIAGRAMS			

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FAX: 505.242.0673
MOLZEN-CORBIN & Associates
ENGINEERS/ARCHITECTS/PLANNERS

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE		
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER		DATE	*****			
		DRC Chairman			7-19-02	APPROVED FOR CONSTRUCTION			
		Transportation	N/A		7/16/02				
		Water/Wastewater			7/17/02			7/16/02	
		Hydrology	RBZ 		7/16/02	City Architect			Date
		Parks						7/19/02	
		Constr. Coord.			7-19-02	City Engineer			Date
City Project No.						Sheet	Of		
4682.91						1	25	(C-01)	



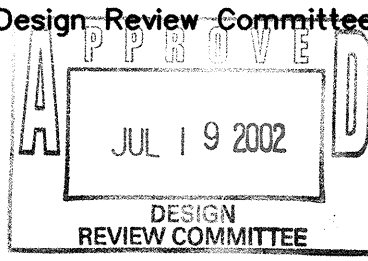
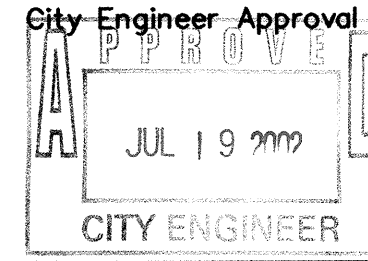
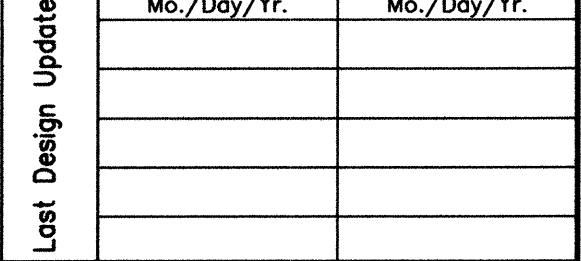
EXISTING STATION NO.37 SITE PLAN
SCALE: 1"=10'-0"

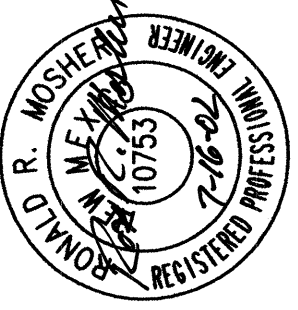


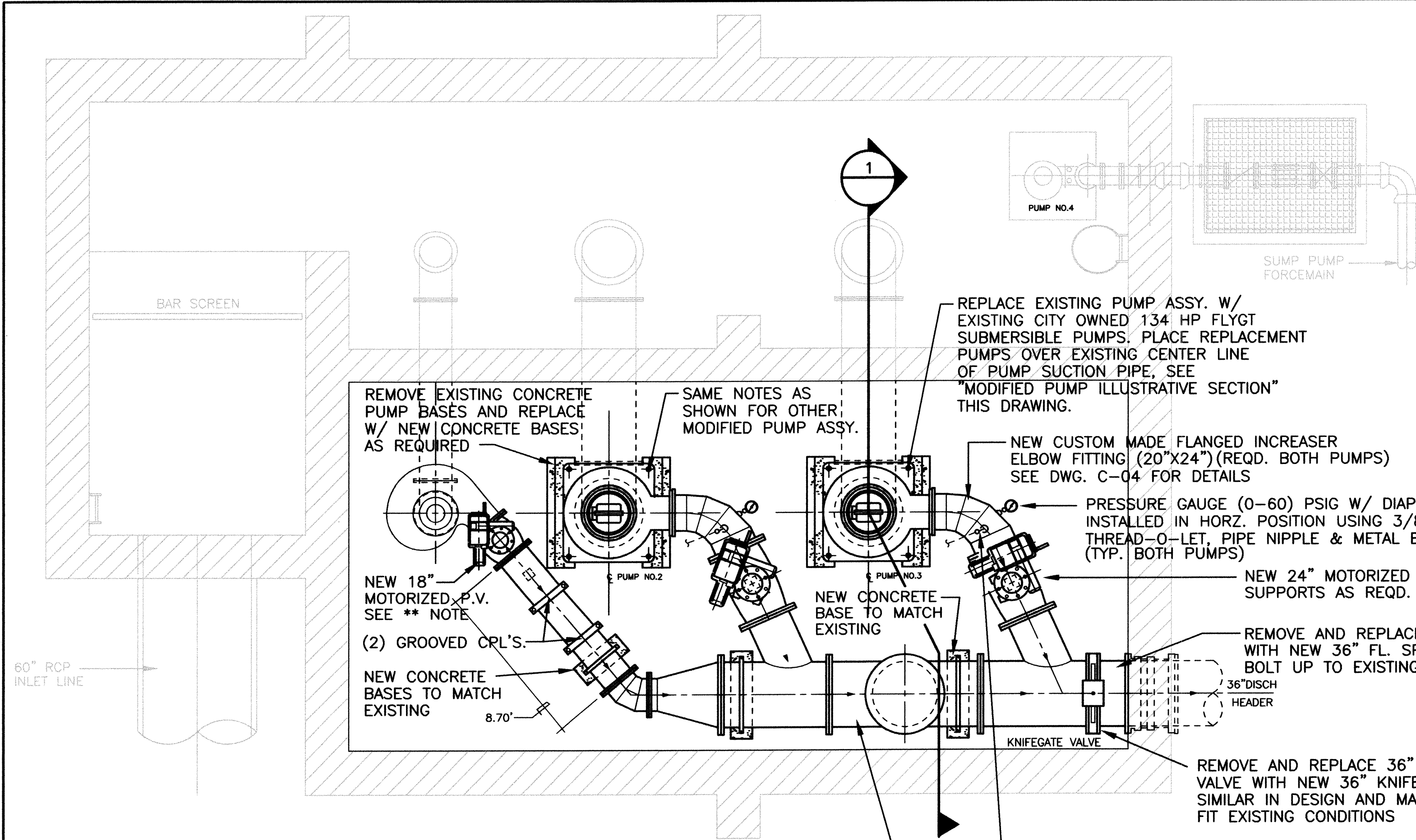
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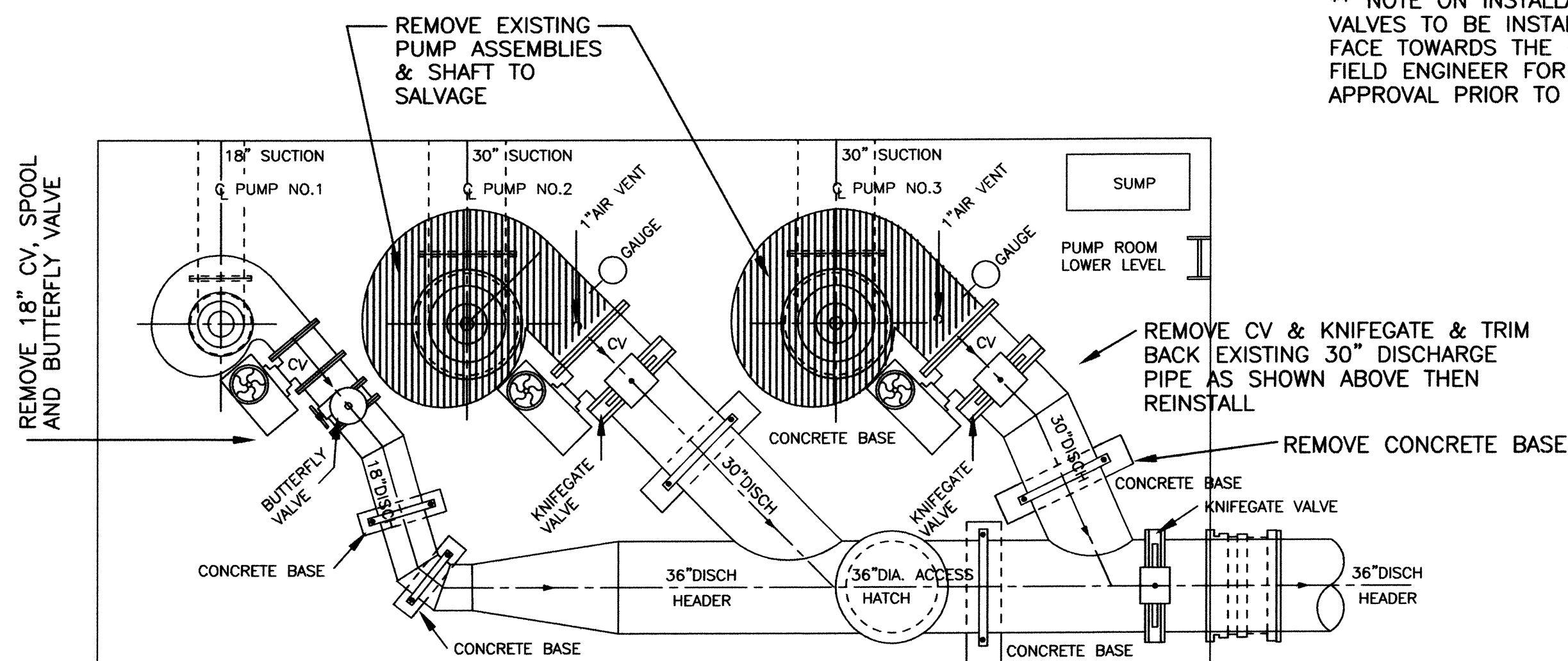
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		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: STORM WATER PUMP STATION #37 REHABILITATION EXISTING BELL PUMP STATION #37 LOCATION MAP AND SITE PLAN			
Design-Review Committee	City Engineer Approval	Mo./Day/Yr.	
			
City Project No. 4682.91		Zone Map No. L-14	Sheet 2 of 25 C-02

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
	NO.	BY	DATE	NO.	BY	DATE	NO.
REVISIONS		MICRO-FILM INFORMATION		CONTRACTOR		INSPECTOR'S	
NO. DATE		NO. DATE		NO. DATE		NO. DATE	
DESIGNED BY BB/RM		DESIGNED BY BB/RM		DESIGNED BY BB/RM		DESIGNED BY BB/RM	
DRAWN BY C.J. SPINELLO		DRAWN BY C.J. SPINELLO		DRAWN BY C.J. SPINELLO		DRAWN BY C.J. SPINELLO	
CHECKED BY RM		CHECKED BY RM		CHECKED BY RM		CHECKED BY RM	
DATE NOV. 1998		DATE NOV. 1998		DATE NOV. 1998		DATE NOV. 1998	



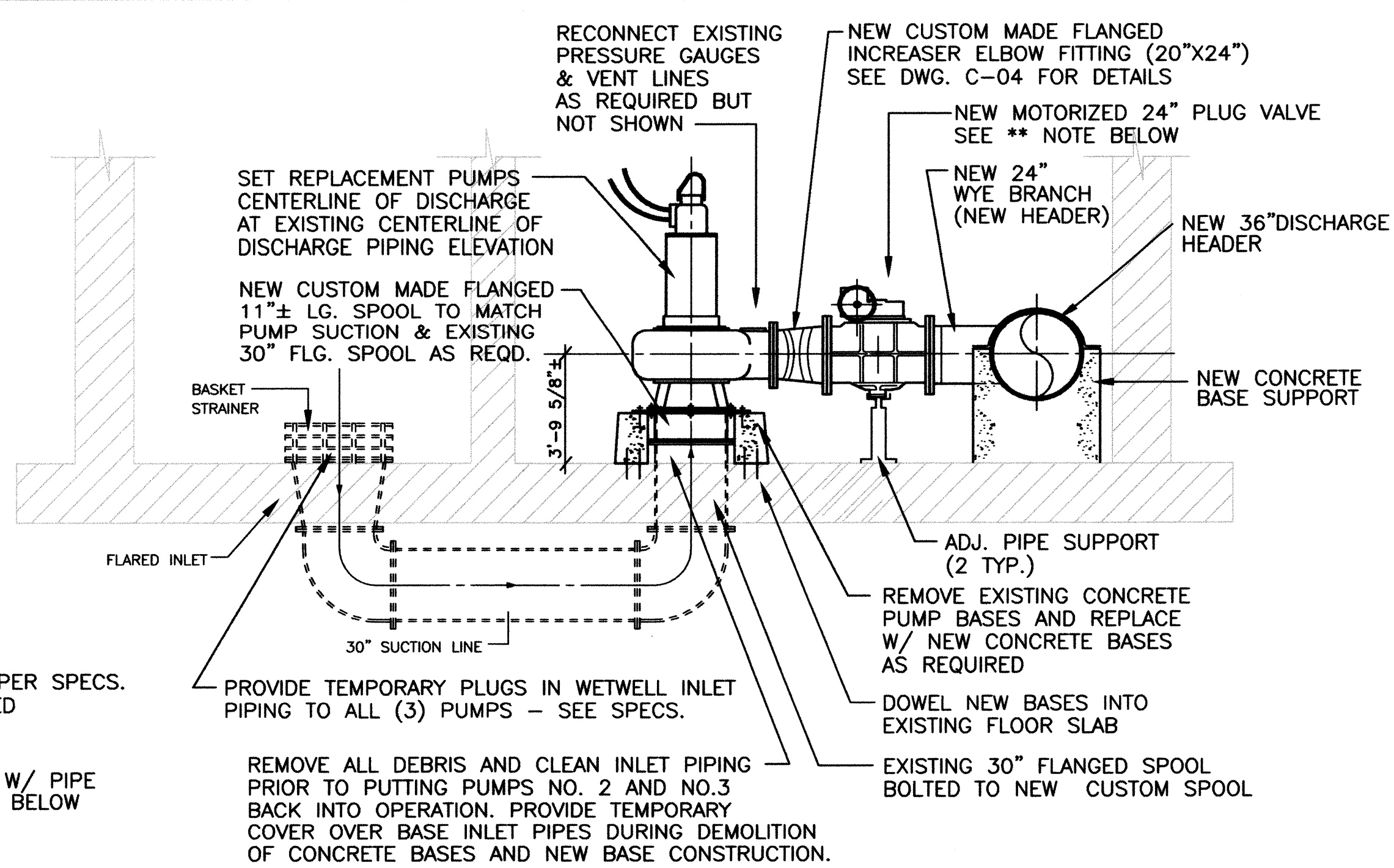
PUMP STATION NO.37 PUMP ROOM - MODIFIED PLAN
SCALE: 1/4" = 1'-0"



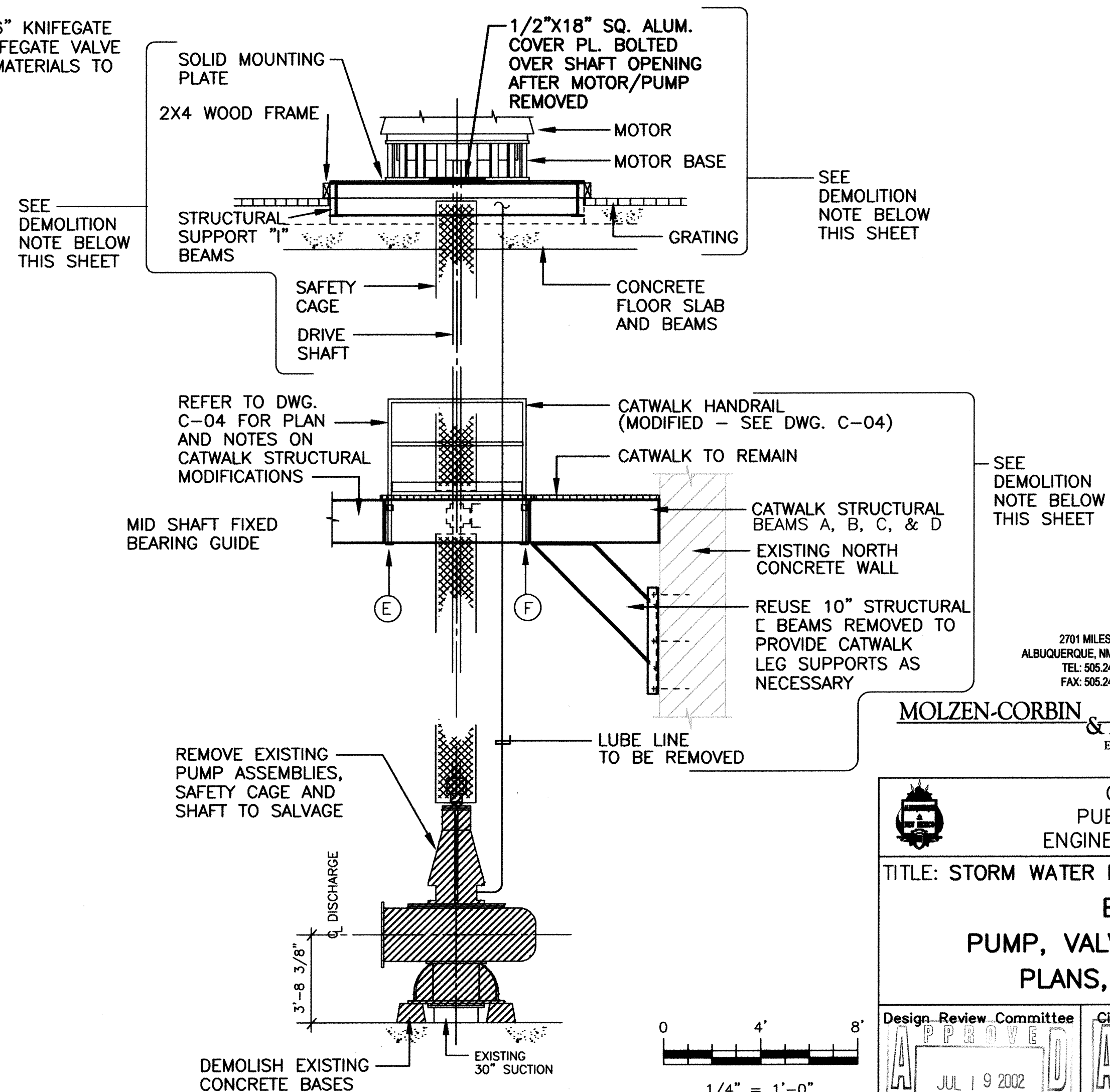
DEMOLITION NOTES:
EXISTING BUT NOT SHOWN IS A STRUCTURALLY SUPPORTED GRATED CATWALK ALONG THE NORTH WALL AND OUT TO THE SHAFT BRG. LOCATION OF EACH PUMP LOCATED APPROX. 10 FT. BELOW STREET LEVEL FLOOR SLAB. PORTIONS OF CATWALK AND STRUCTURAL SUPPORT SYSTEM IS TO BE REMOVED TO ALLOW REMOVAL OF BOTH PUMPS & SHAFTS. REFER TO DWGS. FOR REMOVAL AND REPLACEMENT DETAILS. NO.2 AND NO.3 PUMP MOTOR/BASES ARE TO BE REMOVED TO SALVAGE. EXISTING MOTOR/BASE STRUCTURAL SUPPORTS, FRAMING, GRATING AND SOLID MOUNTING PLATES ARE TO BE REMOVED AND REINSTALLED AFTER NO.2. AND NO.3 PUMPS ARE REMOVED FROM THE BUILDING. REINSTALLED MOUNTING PLATE SHAFT OPENINGS TO BE COVERED W/ 1/2" X 18" SQ. ALUM. CKR. PLS., BOLTED TO THE REINSTALLED SOLID MOUNTING PLATES AS REQD. AT EACH LOCATION.

EXISTING POWER CABLES TO PUMP MOTORS NO.2 & NO.3 MUST BE DISCONNECTED FROM POWER AND REMOVED PRIOR TO PUMP REMOVAL.

PUMP STATION NO.37 PUMP ROOM - EXISTING PLAN
SCALE: 1/4" = 1'-0"

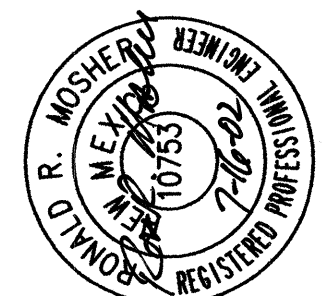


MODIFIED PUMP ILLUSTRATIVE SECTION
N.T.S. (SIMILAR FOR BOTH PUMPS)



EXISTING PUMP/MOTOR ILLUSTRATIVE ELEVATION DETAIL
SCALE: NOT TO SCALE

AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	DATE	INSPECTOR	DATE	STATION	DATE	FIELD	DATE	NO.	BY	DATE	NO.	DATE	REMARKS	BY	DATE
MICRO-FILM INFORMATION															
RECORDED BY	DATE	NO.													
DESIGNED BY	DATE	NO.													
DRAWN BY	DATE	NO.													
CHECKED BY	DATE	NO.													



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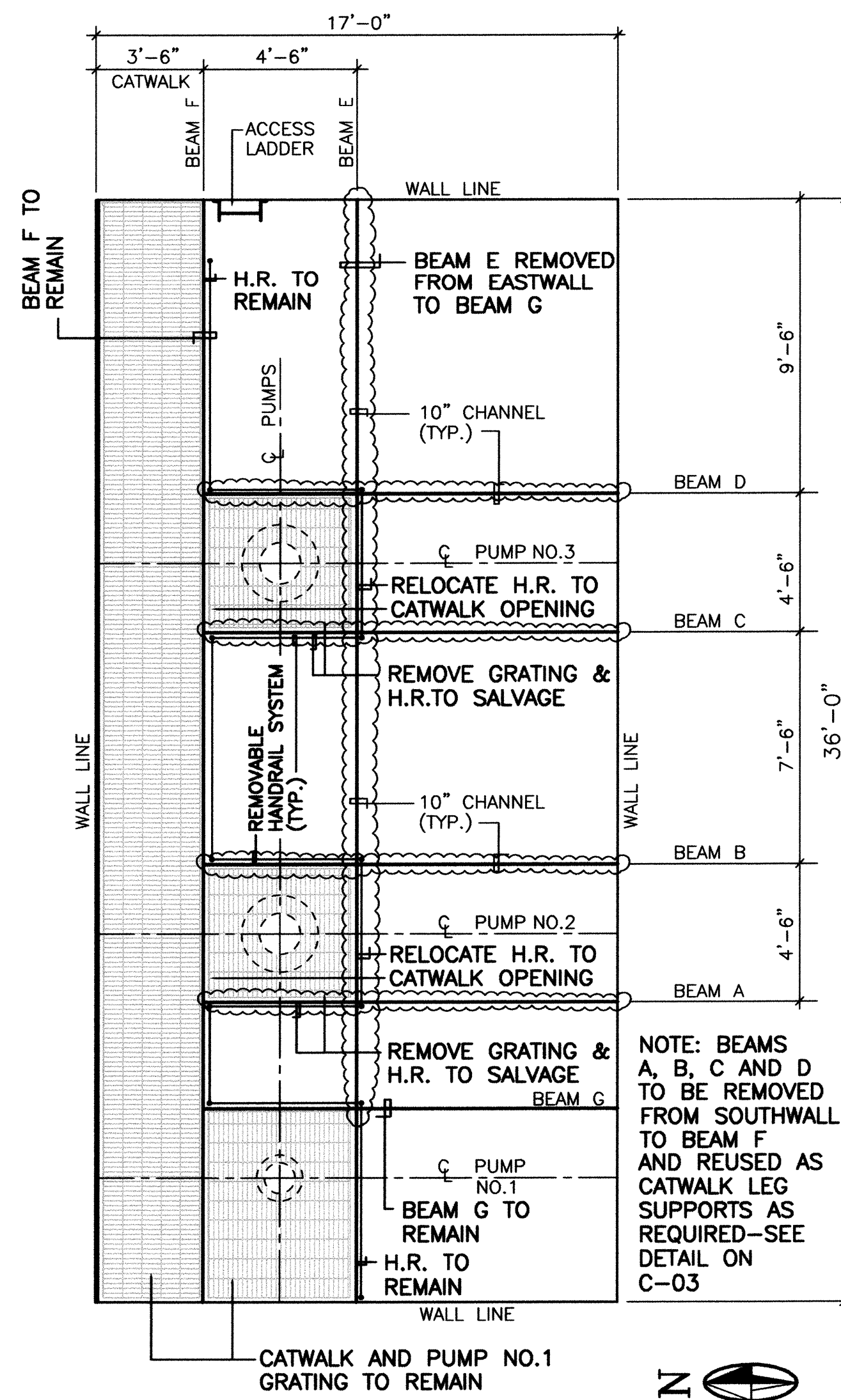
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**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP**

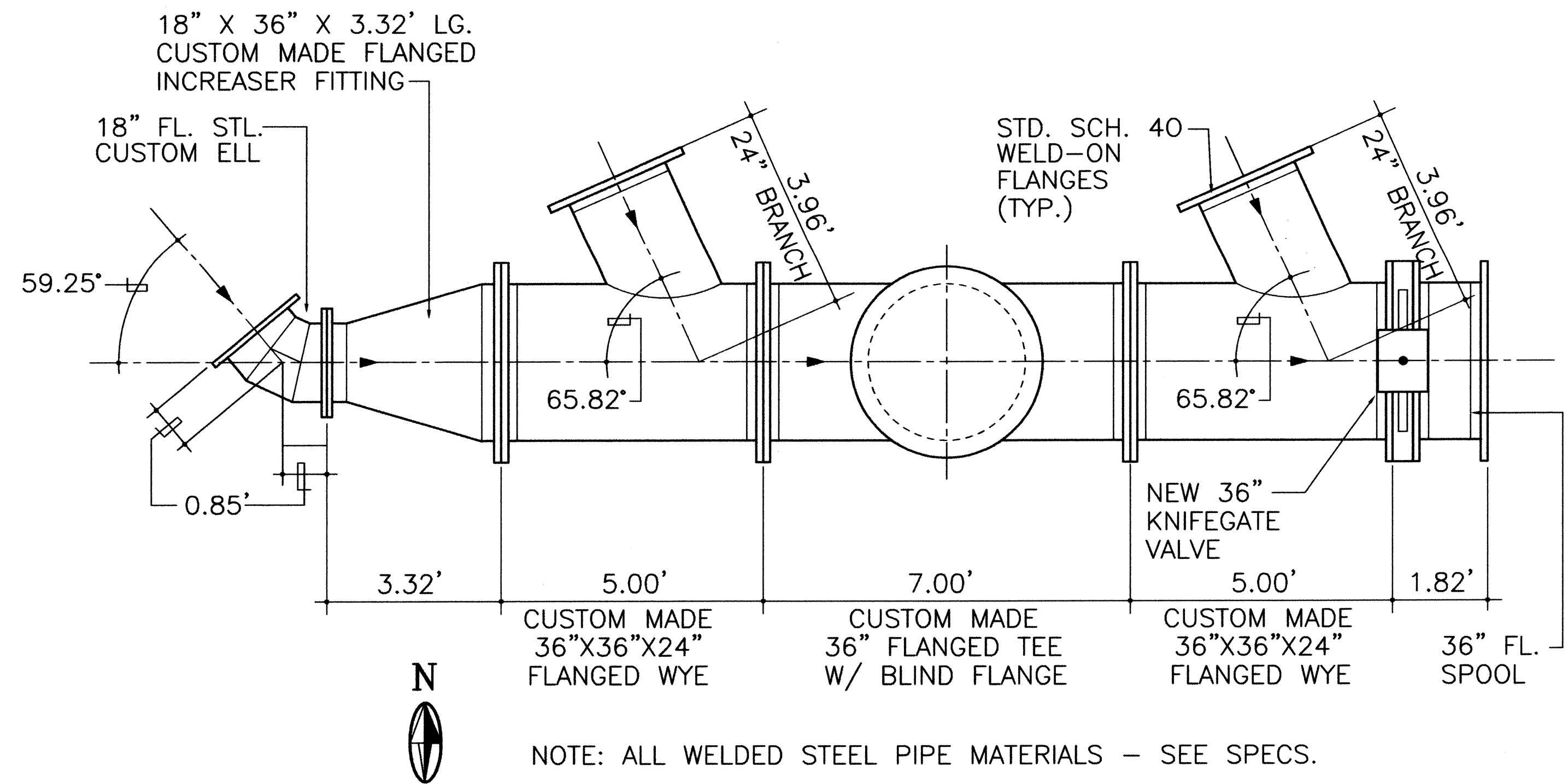
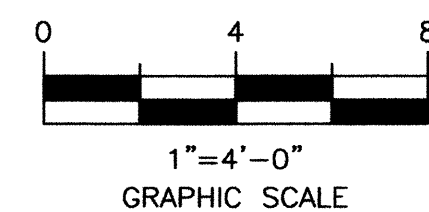
TITLE: STORM WATER PUMP STATION #37 REHABILITATION

**BELL STATION #37
PUMP, VALVE & PIPING MODIFICATIONS
PLANS, SECTIONS AND DETAILS**

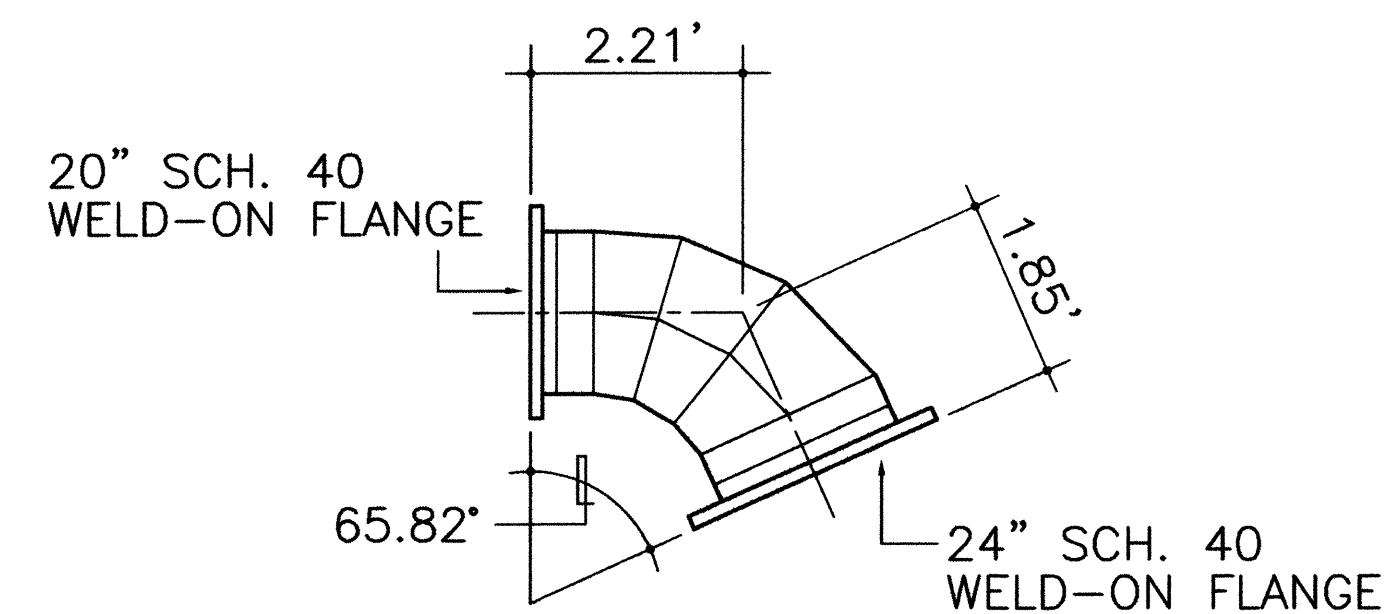
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
JUL 19 2002	JUL 19 2002		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
City Project No.	Zone Map No.	Sheet	3 of 25
4682.91	L-14	C-03	



MODIFIED PUMP ROOM CATWALK - PLAN
SCALE: 1"=4'-0"



NEW DISCHARGE HEADER PLAN - DETAIL
SCALE: 1/2"=1'-0"



CUSTOM MADE FLANGED INCREASER ELL (20"X24")
2 REQUIRED
SCALE: 1/2"=1'-0"

NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION OF CUSTOM HEADER & FITTINGS

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: STORM WATER PUMP STATION #37 REHABILITATION BELL STATION #37 DISCHARGE HEADER DETAIL AND MODIFIED PUMP ROOM CATWALK PLAN	
Design Review Committee APPROVED JUL 19 2002 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED JUL 19 2002 CITY ENGINEER
City Project No. 4682.91	Zone Map No. L-14
Sheet 4 of 25 C-04	Mo./Day/Yr. Mo./Day/Yr.

AS BUILT INFORMATION			
CONTRACTOR	DATE	INSPECTOR'S	DATE
STANDARD BY	DATE	FIELD	DATE
VERIFICATION BY	DATE	CORRECTED BY	DATE
MICRO-FILM INFORMATION			
RECORDED BY	DATE	NO.	

SURVEY INFORMATION	
FIELD NOTES	DATE
NO.	BY

BENCH MARKS	

ENGINEER'S SEAL	

POWER	SCHEMATICS	ONE-LINE DIAGRAMS	ONE-LINE DIAGRAMS	ABBREVIATIONS CONT.
LPA-5 EP DUPLEX RECEPTACLE EP - EXPLOSIONPROOF GFI - GRD FAULT INTERRUPTER WP - WEATHERPROOF PP1-2 SPECIAL RECEPTACLE ① JUNCTION BOX ON CEILING ② JUNCTION BOX ON WALL ⏏ FUSED COMBINATION STARTER # EQUIPMENT SEE ABBREVIATIONS M SINGLE PHASE MOTOR M THREE PHASE MOTOR ⊖ THERMOSTAT • PUSHBUTTON ESS - EMERGENCY STOP BUTTON S/S - START/STOP UH UNIT HEATER EC EVAPORATIVE COOLER ⊖ GROUND ROD G GROUND CONDUCTOR EXOTHERMIC WELD VS SOLENOID VALVE 30A DISCONNECT SWITCH GH GAS HEATER XXXX CONDUIT IDENTIFIER XXXX - NUMBER	FUSE TERMINAL BLOCK MOUNTED FUSE SELECTOR SWITCH A B C INDICATES SWITCH POSITION X INDICATES CLOSED CONTACT O INDICATES OPEN CONTACT CENTRIFUGAL SWITCH NORMALLY OPEN PUSHBUTTON NORMALLY CLOSED PUSHBUTTON TIME DELAY RELAY CONTACT OPEN AFTER DROP OUT # = OPERATING COIL TIME DELAY RELAY CONTACT CLOSE AFTER DROP OUT # = OPERATING COIL TIME DELAY RELAY CONTACT CLOSE AFTER ENERGIZING # = OPERATING COIL NORMAL OPEN LEVEL SWITCH NORMAL CLOSED LEVEL SWITCH OPEN PRESSURE SWITCH NORMALLY OPEN LIMIT SWITCH NORMALLY CLOSED LIMIT SWITCH TORQUE SWITCH NORMALLY OPEN CONTACT R INDICATES COIL REFERENCE NORMALLY CLOSED CONTACT R INDICATES COIL REFERENCE OPEN TEMPERATURE SWITCH RELAY COIL R-RELAY DESIGNATION PILOT LIGHT R INDICATES COLOR R-RED G-GREEN A-AMBER W-WHITE MOTOR SHIELD CIRCUIT BREAKER SWITCH OVERLOAD'S	2.6 IMP. 240V 5KVA 120V TRANSFORMER 240V - PRIMARY VOLTAGE 5KVA - KVA RATING 120V - SECONDARY VOLTAGE 2.6 IMP - TRANSFORMER IMPEDANCE 30 GROUNDED WYE 30 UNGROUNDED DELTA CURRENT TRANSFORMER 300:5 - INDICATES CT RATIO (2) - INDICATES QUANTITY FUSED POTENTIAL TRANSFORMER 480V - PRIMARY VOLTAGE 120V - SECONDARY VOLTAGE (2) INDICATES QUANTITY SWITCHBOARD METER, # INDICATES A - AMMETER ET - ELAPSED TIME KW - KILOWATT KWH - KILOWATT-HOUR KWH - HOUR-DEMAND V - VOLTMETER GROUND THERMAL OVERLOAD SURGE ARRESTER DOUBLE THROW DISCONNECT 100 A- AMPERAGE RATING SINGLE THROW DISCONNECT 60A - AMPERAGE RATING 3P - NUMBER OF POLES DRAWOUT FUSE & RATING CIRCUIT BREAKER 100A - TRIP RATING 225A - FRAME RATING (FOR ADJUSTABLE TRIP BREAKERS) 3P - NUMBER OF POLES M - MAGNETIC TRIP LOW VOLTAGE AIR CIRCUIT BREAKER E - INDICATES ELECTRICAL SHUNT TRIP M - INDICATES MECHANICAL SHUNT TRIP 1200AF - FRAME RATING 800AT - TRIP RATING SINGLE PHASE MOTOR THREE PHASE MOTOR KIRK KEY INTERLOCK FUSED SWITCH COMBINATION STARTER 60A - INDICATES SWITCH RATING 45A - INDICATES FUSE SIZE # - NEMA STARTER SIZE LTR = TYPE FV2S - FULL VOLTAGE 2 SPEED FVR - FULL VOLTAGE REVERSING FVNR - FULL VOLTAGE NON-REVERSING RVAT - REDUCED VOLTAGE AUTOTRANSFORMER PW - PART WINDING MV - MEDIUM VOLTAGE AFD - ADJUSTABLE FREQUENCY DRIVE	MOTOR CIRCUIT PROTECTOR COMBINATION STARTER 100A IT - INSTANTANEOUS TRIP RATING 60CA - CONTINUOUS AMP # - NEMA STARTER SIZE ## - TYPE DISTRIBUTION PANELBOARD POWER FACTOR CORRECTION CAPACITOR LIGHTNING ARRESTOR TRANSIENT SUPPRESSOR CIRCUITING PHASE CONDUCTOR NEUTRAL CONDUCTOR SWITCHED CONDUCTOR GROUNDING CONDUCTOR HOMERUN INDICATION CONTROL CONDUCTOR 4 - INDICATES # OF COND. SHIELDED PAIR 4 - INDICATES # OF PAIRS MANUFACTURER SUPPLIED CONDUIT TURNS DOWN CONDUIT TURNS UP SURFACE MOUNTED CONDUIT BURIED OR EMBEDDED CONDUIT GROUND WIRE ABBREVIATIONS A AMPERES AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE BSCP BAR SCREEN CONTROL PANEL CJB CONTROL JUNCTION BOX CTL. PNL. CONTROL PANEL CT CURRENT TRANSFORMER DP# DISTRIBUTION PANEL & IDENTIFYING LETTER DV DISCHARGE VALVE DVCP DISCHARGE VALVE CONTROL PANEL ECU EVAPORATIVE COOLER UNIT EMT ELECTRICAL METALLIC TUBING FE FLOW ELEMENT FT FLOW TRANSMITTER FTI FLOW TRANSMITTER/INDICATOR FVNR FULL VOLTAGE NON-REVERSING GUH GAS UNIT HEATER GFI GRD FAULT INTERRUPTING RECEPTACLE GRD, G GROUND HID HIGH INTENSITY DISCHARGE HVAC HEATING, VENTILATION, AIR CONDITIONING IC INSTRUMENT CABINET J JUNCTION JB JUNCTION BOX KV KILO VOLT KVA KILO VOLT-AMPERE KW KILOWATT KWH KILOWATT-HOUR KVAR KILO VOLT AMPERE REACTIVE	LINE LE LEVEL ELEMENT LFMC LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT LI LEVEL INDICATOR LSH LEVEL SWITCH HIGH LTI LEVEL TRANSMITTER/INDICATOR LT LEVEL TRANSMITTER M MAGNETIC TRIP MCU MOTOR CONTROL UNIT MCC MOTOR CONTROL CENTER MOV MOTOR OPERATED VALVE N NEUTRAL NC NORMALLY CLOSED NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOC NIC NOT IN CONTRACT NIU NOT IN USE NO NORMALLY OPEN N.T.S. NOT TO SCALE OFE OWNER FURNISHED EQUIPMENT OL'S OVERLOADS (THERMAL OVERLOAD CONTACTS) P#CR PUMP NUMBER CONTROL RELAY PBV PUMP BYPASS CONTROL VALVE PCB POLYCHLORINATED BIPHENYL PCP PUMP CONTROL PANEL PEC PHOTO-ELECTRIC CELL PF POWER FACTOR PFCC POWER FACTOR CORRECTION CAPACITOR PH PHASE PNM PUBLIC SERVICE COMPANY OF NEW MEXICO PSH PRESSURE SWITCH HIGH (HIGH DISC. PRESS. SWITCH) PSL PRESSURE SWITCH LOW PT POTENTIAL TRANSFORMER PTT PRESSURE TRANSDUCER TRANSMITTER PVC POLYVINYL CHLORIDE RMC RIGID METAL CONDUIT, GALVANIZED RTB REMOTE TERMINAL BLOCK RTU-TB REMOTE TERMINAL UNIT TERMINAL BLOCK RTD RESISTANCE TEMPERATURE DEVICE SP SPARE SPCP SUMP PUMP CONTROL PANEL SW SWITCH SYM SYMMETRICAL TB TERMINAL BLOCK TE TEMPERATURE ELEMENT (MOTOR RTD) TEL TELEMETRY TSH TEMP. SWITCH HIGH (HIGH AMBIENT TEMP. SWITCH) TSP TWISTED SHIELDED PAIR TSL TEMP. SWITCH LOW (LOW AMBIENT TEMP. SWITCH) TWSH TWISTED SHIELDED CONDUCTORS TYP TYPICAL UH UNIT HEATER V VOLT VAC VOLTS ALTERNATING CURRENT VDC VOLTS DIRECT CURRENT VIBJB VIBRATION SENSOR JUNCTION BOX VLV VALVE LOCATED ITEM VS SOLENOID VALVE W WIRE WH WATER HEATER WP WEATHERPROOF WT WATERTIGHT XFMR TRANSFORMER XMTR TRANSMITTER Y WYE ZSC POSITION SWITCH CLOSED ZSO POSITION SWITCH OPEN Δ DELTA Φ PHASE PXXX POWER CONDUCTORS CXXX CONTROL CONDUCTORS LXXX LIGHTING & RECEPTACLE CONDUCTORS
TERMINALS MCU, MCC, DP'S PLC/CONTROL PANEL ELECT. VALVE ACTUATOR FIELD JB TEL MOTOR RESISTER TERMINAL PACKAGE CONTROL PACKAGE CONTROL #2	TERMINALS MCU, MCC, DP'S PLC/CONTROL PANEL ELECT. VALVE ACTUATOR FIELD JB TEL MOTOR RESISTER TERMINAL PACKAGE CONTROL PACKAGE CONTROL #2	TERMINALS MCU, MCC, DP'S PLC/CONTROL PANEL ELECT. VALVE ACTUATOR FIELD JB TEL MOTOR RESISTER TERMINAL PACKAGE CONTROL PACKAGE CONTROL #2	TERMINALS MCU, MCC, DP'S PLC/CONTROL PANEL ELECT. VALVE ACTUATOR FIELD JB TEL MOTOR RESISTER TERMINAL PACKAGE CONTROL PACKAGE CONTROL #2	ABBREVIATIONS A AMPERES AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE BSCP BAR SCREEN CONTROL PANEL CJB CONTROL JUNCTION BOX CTL. PNL. CONTROL PANEL CT CURRENT TRANSFORMER DP# DISTRIBUTION PANEL & IDENTIFYING LETTER DV DISCHARGE VALVE DVCP DISCHARGE VALVE CONTROL PANEL ECU EVAPORATIVE COOLER UNIT EMT ELECTRICAL METALLIC TUBING FE FLOW ELEMENT FT FLOW TRANSMITTER FTI FLOW TRANSMITTER/INDICATOR FVNR FULL VOLTAGE NON-REVERSING GUH GAS UNIT HEATER GFI GRD FAULT INTERRUPTING RECEPTACLE GRD, G GROUND HID HIGH INTENSITY DISCHARGE HVAC HEATING, VENTILATION, AIR CONDITIONING IC INSTRUMENT CABINET J JUNCTION JB JUNCTION BOX KV KILO VOLT KVA KILO VOLT-AMPERE KW KILOWATT KWH KILOWATT-HOUR KVAR KILO VOLT AMPERE REACTIVE
LIGHTING FLUORESCENT CEILING FIXTURE TYP. { 1 FIXTURE TYPE PER SPECIFICATION SCHEDULE WALL FIXTURE # DESIGNATES TYPE, LETTER DESIGNATES SWITCH PHOTOELECTRIC CELL SWITCH, # INDICATES: 3 - THREE WAY 4 - FOUR WAY a - SWITCH DESIGNATION K - KEY OPERATED WP - WEATHERPROOF DP - DOUBLE POLE	LIGHTING FLUORESCENT CEILING FIXTURE TYP. { 1 FIXTURE TYPE PER SPECIFICATION SCHEDULE WALL FIXTURE # DESIGNATES TYPE, LETTER DESIGNATES SWITCH PHOTOELECTRIC CELL SWITCH, # INDICATES: 3 - THREE WAY 4 - FOUR WAY a - SWITCH DESIGNATION K - KEY OPERATED WP - WEATHERPROOF DP - DOUBLE POLE	LIGHTING FLUORESCENT CEILING FIXTURE TYP. { 1 FIXTURE TYPE PER SPECIFICATION SCHEDULE WALL FIXTURE # DESIGNATES TYPE, LETTER DESIGNATES SWITCH PHOTOELECTRIC CELL SWITCH, # INDICATES: 3 - THREE WAY 4 - FOUR WAY a - SWITCH DESIGNATION K - KEY OPERATED WP - WEATHERPROOF DP - DOUBLE POLE	LIGHTING FLUORESCENT CEILING FIXTURE TYP. { 1 FIXTURE TYPE PER SPECIFICATION SCHEDULE WALL FIXTURE # DESIGNATES TYPE, LETTER DESIGNATES SWITCH PHOTOELECTRIC CELL SWITCH, # INDICATES: 3 - THREE WAY 4 - FOUR WAY a - SWITCH DESIGNATION K - KEY OPERATED WP - WEATHERPROOF DP - DOUBLE POLE	ABBREVIATIONS A AMPERES AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE BSCP BAR SCREEN CONTROL PANEL CJB CONTROL JUNCTION BOX CTL. PNL. CONTROL PANEL CT CURRENT TRANSFORMER DP# DISTRIBUTION PANEL & IDENTIFYING LETTER DV DISCHARGE VALVE DVCP DISCHARGE VALVE CONTROL PANEL ECU EVAPORATIVE COOLER UNIT EMT ELECTRICAL METALLIC TUBING FE FLOW ELEMENT FT FLOW TRANSMITTER FTI FLOW TRANSMITTER/INDICATOR FVNR FULL VOLTAGE NON-REVERSING GUH GAS UNIT HEATER GFI GRD FAULT INTERRUPTING RECEPTACLE GRD, G GROUND HID HIGH INTENSITY DISCHARGE HVAC HEATING, VENTILATION, AIR CONDITIONING IC INSTRUMENT CABINET J JUNCTION JB JUNCTION BOX KV KILO VOLT KVA KILO VOLT-AMPERE KW KILOWATT KWH KILOWATT-HOUR KVAR KILO VOLT AMPERE REACTIVE
1=1 7-2-02	1=1 7-2-02	1=1 7-2-02	1=1 7-2-02	NOTE: SOME SYMBOLS SHOWN BUT NOT USED.

PANEL ELP									
DESCRIPTION	BRKR	CKT	LOAD PER PHASE		CKT	BRKR	DESCRIPTION	BRKR	CKT
			A	B					
ELECTRIC VALVE ACTUATOR #1	30	1			2	30	ELECTRIC VALVE ACTUATOR #2		
	30	3			4	30			
	30	5			6	30			
ELECTRIC VALVE ACTUATOR #3	30	7			8	20	PLC		
	30	9			10				
	30	11			12				
		13			14				
		15			16				
		17			18				
		19			20				
		21			22				
		23			24				

208Y/120 VOLT
100 AMP BUS,
100 AMP MCB, NEMA 1

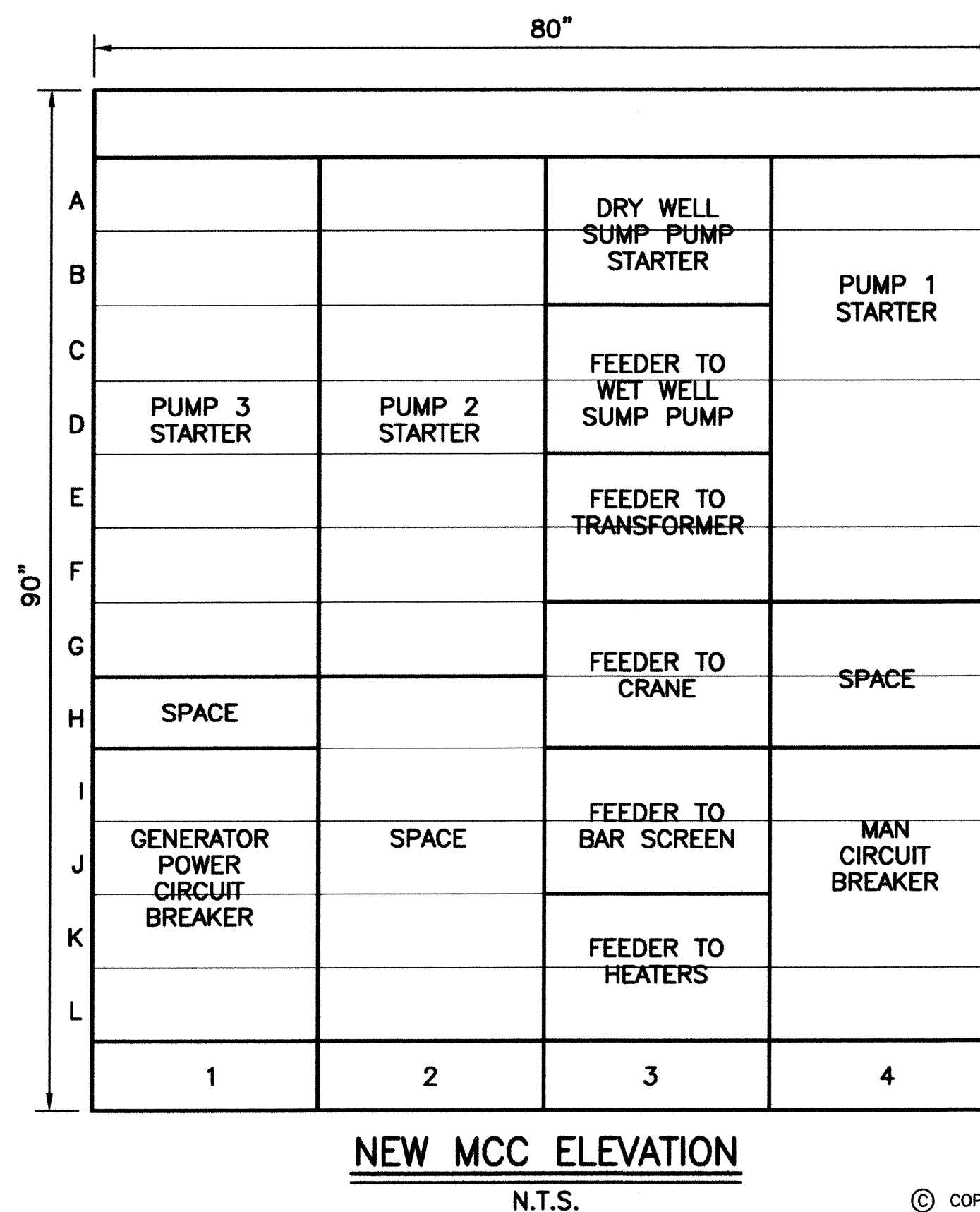
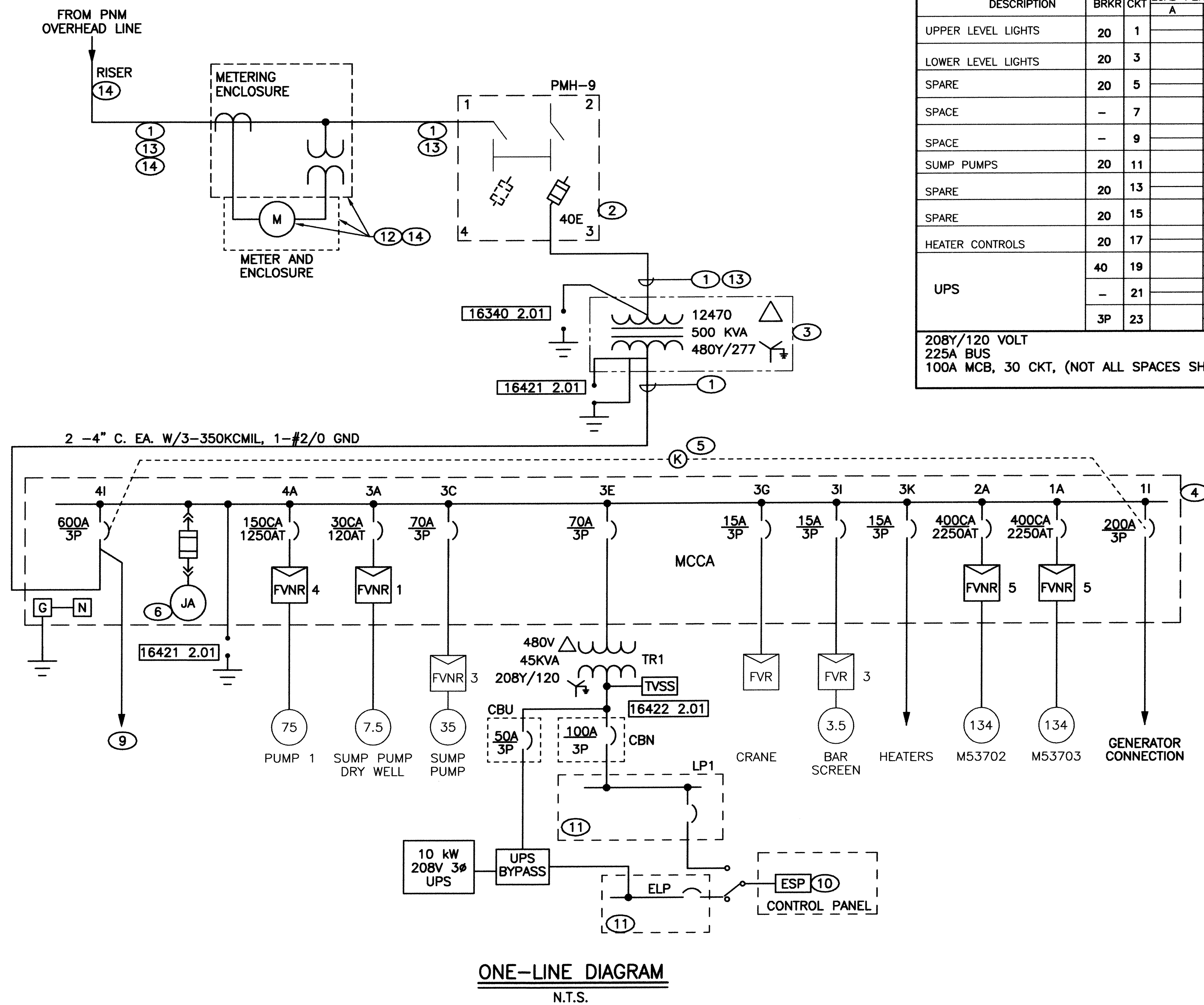
PANEL LP									
DESCRIPTION	BRKR	CKT	LOAD PER PHASE		CKT	BRKR	DESCRIPTION	BRKR	CKT
			A	B					
UPPER LEVEL LIGHTS	20	1			2	20	EXTERIOR LIGHTS		
LOWER LEVEL LIGHTS	20	3			4	20			
SPARE	20	5			6	20	RECEPTS		
SPARE	20	7			8	20	HEAT TRACE BACKFLOW		
SPARE	20	9			10	20			
SUMP PUMPS	20	11			12	20			
SPARE	20	13			14	20	SPARE		
SPARE	20	15			16	20			
HEATER CONTROLS	20	17			18	20	HEATER CONTROLS		
SPARE	30	19			20	-	SPACE		
		2P 21			22	-	SPACE		
SPACE	-	23			24	-	SPACE		

PANEL LP1									
DESCRIPTION	BRKR	CKT	LOAD PER PHASE		CKT	BRKR	DESCRIPTION	BRKR	CKT
			A	B					
UPPER LEVEL LIGHTS	20	1			2	20	EXTERIOR LIGHTS		
LOWER LEVEL LIGHTS	20	3			4	20	PLC		
SPARE	20	5			6	20	RECEPTS		
SPACE	-	7			8	20	HEAT TRACE BACKFLOW		
SPACE	-	9			10	-	SPACE		
SUMP PUMPS	20	11			12	-	SPACE		
SPARE	20	13			14	20	SPARE		
SPARE	20	15			16	-	SPACE		
HEATER CONTROLS	20	17			18	20	HEATER CONTROLS		
UPS	40	19			20	-	SPACE		
	-	21			22	-	SPACE		
	3P	23			24	-	SPACE		

208Y/120 VOLT
225A BUS
100A MCB, 30 CKT, (NOT ALL SPACES SHOWN)

KEYED NOTES

- INSTALL INDICATED CONDUITS AND CONDUCTORS.
- INSTALL OFE FUSIBLE PRIMARY SWITCH. PROVIDE AND INSTALL S & C SML4Z FUSE HOLDERS AND REFILLS IN PRIMARY SWITCH. STORE ONE SET OF SPARE FUSES REFILLS IN DOOR AND DELIVER ADDITIONAL SET TO OWNER.
- 500 KVA TRANSFORMER.
- INSTALL NEW MOTOR CONTROL CENTER.
- KEY LOCK SYSTEM TO PERMIT ONLY ONE CIRCUIT BREAKER TO BE CLOSED. KIRK BRAND, NO SUBSTITUTES.
- INSTALL DRAWOUT FUSES OR DISCONNECT AND FUSES. INSTALL THREE PHASE VOLTAGE MONITOR AND CONNECT OUTPUT TO PLC. SSAC PLMU SERIES OR ENGINEER APPROVED SUBSTITUTE.
- SCHEDULE OF EXISTING PANEL. RECONNECT LOADS TO REPLACEMENT PANELBOARD LP-1.
- CIRCUITS MAY BE REARRANGED IF PHYSICALLY NECESSARY. PROVIDE CORRECTED DIRECTORY.
- TEMPORARY CONNECTION OF NEW MCC TO OLD MCC. SEE E-04.
- ELECTRONIC SAG PROTECTOR.
- OTHER LOADS ARE SHOWN ON SCHEDULE.
- PRIMARY METERING ENCLOSURE METER BASE AND ENCLOSURE AS REQUIRED BY PNM. COMPLY WITH PNM DS-19-79.0 AND DRAWINGS REFERENCED THEREON. DELIVER TO PNM FOR METERING EQUIPMENT INSTALLATION. RETRIEVE AND INSTALL.
- 4" C. WITH 3 #2 15 KV, #8 GND.
- FOR ALL ASPECTS OF SERVICE, COMPLY WITH PNM DS-7-15.1 AND DRAWINGS REFERENCED THEREON.



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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: STORM WATER PUMP STATION #37 REHABILITATION			
ELECTRICAL ONE-LINE DIAGRAM			
Design Review Committee APPROVED JUL 19 2002 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED JUL 19 2002 CITY ENGINEER	Last Design Update	Mo./Day/Yr. Mo./Day/Yr.
City Project No. 4682.91	Zone Map No. L-14	Sheet E-02	6 of 25

AS BUILT INFORMATION			
CONTRACTOR	DATE	INSPECTOR'S	DATE
STAMPED BY	DATE	FIELD	DATE
VERIFICATION BY	DATE	CORRECTED BY	DATE
MICRO-FILM INFORMATION			
RECORDED BY	DATE	NO.	

BENCH MARKS		SURVEY INFORMATION	
NO.	DATE	FIELD NOTES	BY

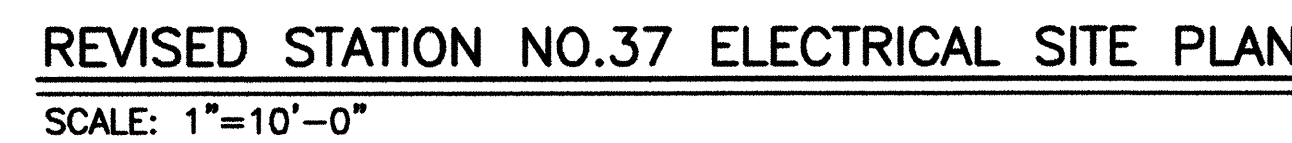
ENGINEER'S SEAL
ALBUQUERQUE, NM
6870
16 July 2002

REVISIONS	DATE	BY
DESIGN	10-00	WNH/HCH
DRAWN BY	7-02	RA
CHECKED BY	7-02	SES



KEYED NOTES

- ① CONSTRUCT CONCRETE PAD FOR METERING, SWITCHGEAR, AND TRANSFORMER. DO NOT SCALE PAD ON THIS PLAN. SEE DETAIL ON E-12.
- ② 4" RED-DYED CONCRETE ENCASED SCHEDULE 40 PVC TO EXISTING POLE. INSTALL ELBOW AND RISER IN ACCORDANCE WITH PNM DRAWING DS-7-15.1.
- ③ PRIMARY METERING ENCLOSURE METER BASE AND ENCLOSURE AS REQUIRED BY PNM. COMPLY WITH PNM DS-19-79.0 AND DRAWINGS REFERENCED THEREON. DELIVER TO PNM FOR METERING EQUIPMENT INSTALLATION. RETRIEVE AND INSTALL.
- ④ INSTALL OWNER FURNISHED S&C PMH-9 PRIMARY SWITCH.
- ⑤ 500 KVA PADMOUNTED TRANSFORMER.
- ⑥ DUCTBANK BETWEEN SECONDARY COMPARTMENT OF NEW TRANSFORMER AND BUILDING. INSTALL CONDUCTORS BETWEEN TRANSFORMER AND NEW MCC. 36 INCH MINIMUM COVER.
- ⑦ CONDUIT AND CONDUCTORS BETWEEN METERING ENCLOSURE AND PRIMARY SWITCH AND BETWEEN PRIMARY SWITCH AND TRANSFORMER.
- ⑧ ARRANGE WITH PNM TO PROVIDE SERVICE TO NEW TRANSFORMER.
- ⑨ ARRANGE WITH PNM TO DISCONNECT EXISTING SERVICE AND PNM OWNED TRANSFORMER.
- ⑩ REMOVE CONDUCTOR TO EXISTING MCC AND TO THE EXISTING 5 KV MOTOR STARTERS. REMOVE CONDUIT AS NEEDED TO AVOID INTERFERENCE WITH NEW DUCTBANK 2/3.
- ⑪ REMOVE EXISTING JUNCTION BOX, METERING ENCLOSURE, PADMOUNTED TRANSFORMER, AND DISCONNECT SWITCH. ARRANGE WITH PNM FOR REMOVAL AND RETURN OF PNM OWNED METERING DEVICES. RETURN MATERIAL REMOVED TO CITY. REMOVE EXISTING CONCRETE PADS. RESTORE TO MATCH EXISTING GRADE. REMOVE CONDUITS TO MINIMUM 2 FEET BELOW FINISHED GRADE. CAP. ABANDON BALANCE IN PLACE.
- ⑫ REMOVE EXISTING CONCRETE PAD. REMOVE CONDUITS TO MINIMUM 2 FEET BELOW FINISHED GRADE. CAP. ABANDON BALANCE IN PLACE. RESTORE TO MATCH EXISTING GRADE.
- ⑬ CORE DRILL BELOW GRADE. RUN CONDUITS TO MCC ON LOWER LEVEL. SEAL PENETRATION THROUGH EAST WALL WITH NON-SHRINK GROUT.



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 PUBLIC WORKS DEPARTMENT
 ENGINEERING DEVELOPMENT GROUP

TITLE: STORM WATER PUMP STATION #37 REHABILITATION
 BELL STATION #37
 ELECTRICAL SITE PLAN

Design Review Committee

APPROVED

JUL 19 2002

DESIGN
REVIEW COMMITTEE

City Engineer Approval
APPROVED
JUL 19 2002
CITY ENGINEER

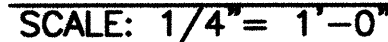
Last Design Update

Mo./Day/Yr.	Mo./Day/Yr.

City Project No. 4682

Zone Map L—

No.	Sheet	7	Of	25
14	E-03			



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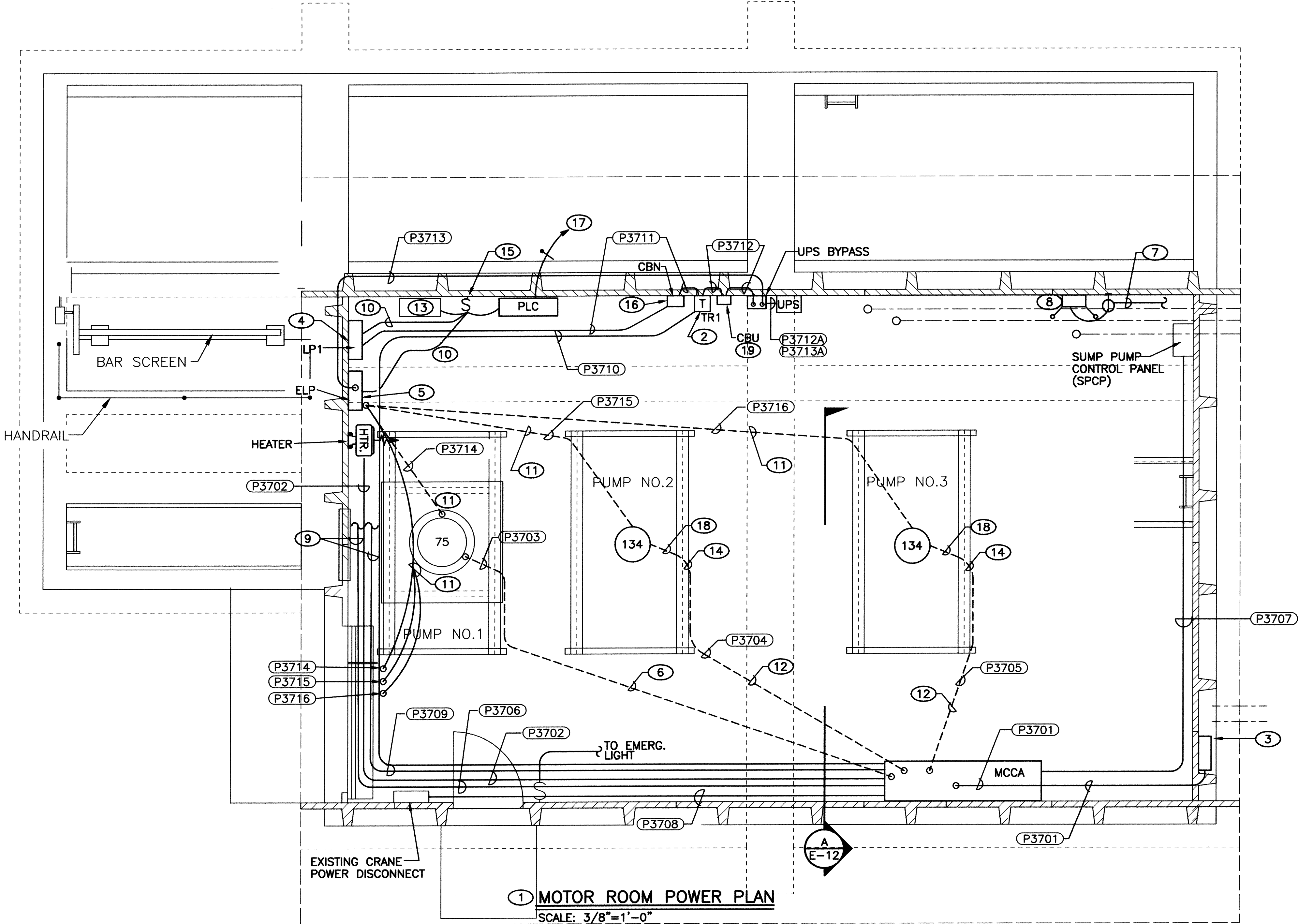
CONDUCTOR AND CONDUIT SCHEDULE						
DESIG-NATION	NUMBER OF RUNS	CONDUIT SIZE	FROM	TO	WIRE	REMARKS
P3701	1	2"	MCC	GENERATOR	3-4/0, 1-#2 GROUND	
P3702	1	3/4"	MCC	HEATER	3-#12, 1-#12 GROUND	
P3703	1	1-1/2"	MCC	M53701	3-#1, 1-#6 GROUND	
P3704	2	3"	MCC	M53702	CABLE BY MOTOR MFG.	
P3705	2	3"	MCC	M53703	CABLE BY MOTOR MFG.	
P3706	1	3/4"	MCC	DW SUMP	3-#12, 1-#12 GROUND	
P3707	1	3/4"	MCC	SPCP	3-#8, 1-#10 GROUND	
P3708	1	3/4"	MCC	CRANE	3-#12, 1-#12 GROUND	
P3709	1	3/4"	MCC	BSCP	3-#12, 1-#12 GROUND	
P3710	1	1"	MCC	TR1	3-#4, 1-#8 GROUND	
P3711	1	1"	TR1	LP1	4-#2, #8 GROUND	VIA CBN ON WALL
P3712	1	1"	TR1	UPS BYPASS	4-#8, 1-#8 GROUND	VIA CBU ON WALL
P3712A	1	1"	UPS BYPASS	UPS	4-#8, 1-#8 GROUND	
P3713	1	1"	UPS BYPASS	ELP	4-#8, 1-#8 GROUND	
P3713A	1	1"	UPS	UPS BYPASS	4-#8, 1-#8 GROUND	
P3714	1	3/4"	ELP	FV53701	3-#10, 1-#10 GROUND	
P3715	1	3/4"	ELP	FV53702	3-#10, 1-#10 GROUND	
P3716	1	3/4"	ELP	FV53703	3-#10, 1-#10 GROUND	

KEYED NOTES CONTINUED

- (15) 20 A DPDT 250 V TOGGLE SWITCH. INSTALL NP: SOURCE SELECTOR SWITCH FOR PLC AND TELEMETRY. INSTALL NP BY UPPER SWITCH POSITION: ELP. INSTALL NP BY LOWER SWITCH POSITION: LP1.
- (16) CIRCUIT BREAKER CBN IN NEMA 1 ENCLOSURE. NP: CBN, DISCONNECT FOR LP1.
- (17) RUN 3/4" CONDUIT UP FROM PLC, THEN ALONG WALL EASTWARD. CORE DRILL WALL, INSTALL CONDUIT, SEAL PENETRATION WITH SILICONE SEAL. RUN DOWN WALL THEN UNDERGROUND TO GROUNDING RING AT TRANSFORMER. INSTALL INSULATED #6 GROUND FROM RING TO ISOLATED GROUND BAR AT PLC ENCLOSURE.
- (18) PUMP CABLE SUSPENDED FROM CABLE GRIP.
- (19) CIRCUIT BREAKER CBU IN NEMA 1 ENCLOSURE. NP: CBU, DISCONNECT FOR UPS.

KEYED NOTES

- (1) FOR GRATING SEE DRAWING E-04.
- (2) TR1 (NP: TR1. FED FROM MCCA. FEEDS UPS VIA CBU AND BYPASS. FEEDS LP1 VIA CBN.)
- (3) 16X16X6 INCH NEMA 3R HINGED COVER ENCLOSURE. MOUNT WITH BOTTOM AT 36" AFG. INSTALL 3 POLE POWER DISTRIBUTION BLOCK FOR PHASE CONDUCTORS, SQUARE D LBA360101, AND FOR GROUND, SQUARE D LBA162101, OR ENGINEER APPROVED EQUIVALENT. INSTALL TWO INCH CLOSE NIPPLE WITH DOUBLE LOCK NUTS AND CAP THROUGH BOTTOM OF BOX. NP: CONNECTION BOX FOR PORTABLE GENERATOR.
- (4) NEW PANELBOARD LP1 (NP: LP1. 208 V 3 PHASE. FED FROM TR1 VIA CBN.) LOCATE TO FACILITATE RECONNECTING LOADS OF EXISTING PANELBOARD LP THAT BECOME DISCONNECTED WHEN MCC1 IS REMOVED. RECONNECT LOADS. DO NOT SPLICE EXISTING CONDUCTORS. REMOVE AND REINSTALL CONDUCTORS WHICH ARE TOO SHORT OR ARE DAMAGED. OPTION TO REMOVAL AND REINSTALLATION OF SHORT CONDUCTORS: INSTALL TERMINAL BOX BELOW LP1. INSTALL TERMINAL BOARDS. LAND EXISTING CONDUCTORS. RUN NEW CONDUCTORS TO LP1. MATCH WIRE COLORS. MARK TBS. MARK WIRES.
- (5) ELP (NP: ELP. 208 V 3 PHASE. FED FROM UPS VIA UPS BYPASS.)
- (6) CORE DRILL FLOOR AT LOCATION OF STARTER FOR PUMP 1. INSTALL CONDUIT AND SEAL WITH SILICONE SEAL. ROUTE NEW CONDUIT FROM MCCA TO PUMP 1 ON CEILING OF PUMP ROOM THEN UP THROUGH GRATING.
- (7) 2 #12 H&N, 1#12 GROUND FROM LINE SIDE OF SWITCH BY SOUTH DOOR, 3/4" RMC.
- (8) INSTALL EMERGENCY LIGHT SIX INCHES BELOW CEILING. INSTALL 15 A SIMPLEX RECEPTACLE. INSTALL CORD AND CAP TO CONNECT LIGHT TO RECEPTACLE.
- (9) LOCATE CONDUITS FROM MCC1 TO BAR SCREEN AND TO DRY WELL SUMP PUMP. MARK. REMOVE EXISTING CONDUCTORS. EXTEND CONDUITS OVERHEAD FROM LOCATION OF MCC1 TO MCCA. INSTALL AND CONNECT NEW CONDUCTORS TO MATCH EXISTING.
- (10) 2 #12 AND #12 GROUND FROM LP1 AND FROM ELP TO SWITCH.
- (11) RUN CONDUITS UP FROM ELP, THEN HIGH ON WALL SOUTHWARD, THEN DOWN. PENETRATE FLOOR CLOSE TO WEST WALL. SEAL PENETRATIONS WITH SILICONE SEAL. RUN CONDUIT DOWN TO LOWER FLOOR. RUN TO RESPECTIVE VALVE ACTUATOR PARALLEL TO CONTROL CONDUITS. SEE E-06 NOTE 5.
- (12) RUN ON CEILING OF PUMP ROOM.
- (13) EXISTING TELEMETRY UNIT. FIELD VERIFY LOCATION. FEED FROM SOURCE SELECTOR SWITCH WITH 3 #12.
- (14) LOCATE CABLE GRIPS DIRECTLY ADJACENT TO EDGE OF OPENING FOR ACCESSIBILITY FROM UPPER FLOOR.

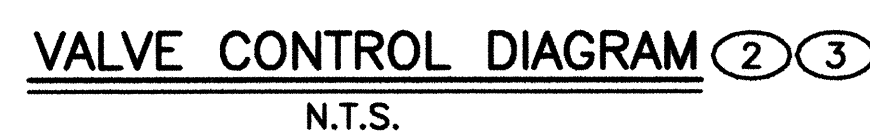


1 MOTOR ROOM POWER PLAN
SCALE: 3/8"=1'-0"

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: STORM WATER PUMP STATION #37 REHABILITATION BELL STATION #37 MOTOR ROOM POWER PLAN	
Design Review Committee APPROVE JUL 19 2002 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVE JUL 19 2002 CITY ENGINEER
City Project No. 4682.91	Zone Map No. L-14
Designed By: HCH/SES Drawn By: RA Checked By: SES	REVISIONS DATE: 6-01 DATE: 7-02 DATE: 7-02
Mo./Day/Yr. Mo./Day/Yr.	Sheet E-05 of 25



- ① REMOVE JUMPER.
- ② VALVE CONTROL SHOWN IN CLOSED POSITION WITH SELECTOR SWITCH IN LOCAL.
- ③ LIGHT PEN WEIGHT INDICATES COMPONENTS INTEGRAL TO VALVE OPERATOR.
- ④ TEMPORARY SWITCH AND CONNECTIONS.

SS TABLE				CLOSE rotor	OPEN rotor	A	B	LIMIT SWITCH CONTACTS
	LOCAL	OFF	REMOTE					
S1	X	0	0	C1	0	X	X	CLOSE COIL
S2	0	0	X	C2	X	0	0	BYPASS T01
S3	0	X	X	C3	0	X	X	OPEN LAMP
S4	X	X	0	C4	X	0	0	SPARE
S5	X	0	0	C5	0	X	X	SPARE
S6	0	0	X	C6	X	0	0	SPARE
S7	X	X	0	O1	X	X	0	OPEN COIL
				O2	0	0	X	BYPASS TC1
				O3	X	X	0	CLOSE LAMP
				O4	0	0	X	SPARE
				O5	X	X	0	SPARE
				O6	0	0	X	SPARE
				A1	0	X		SPARE
				A2	X	0		SPARE
				B1	0	X		SPARE
				B2	X	0		SPARE

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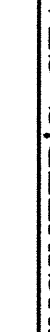
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BELL PUMP STATION #37

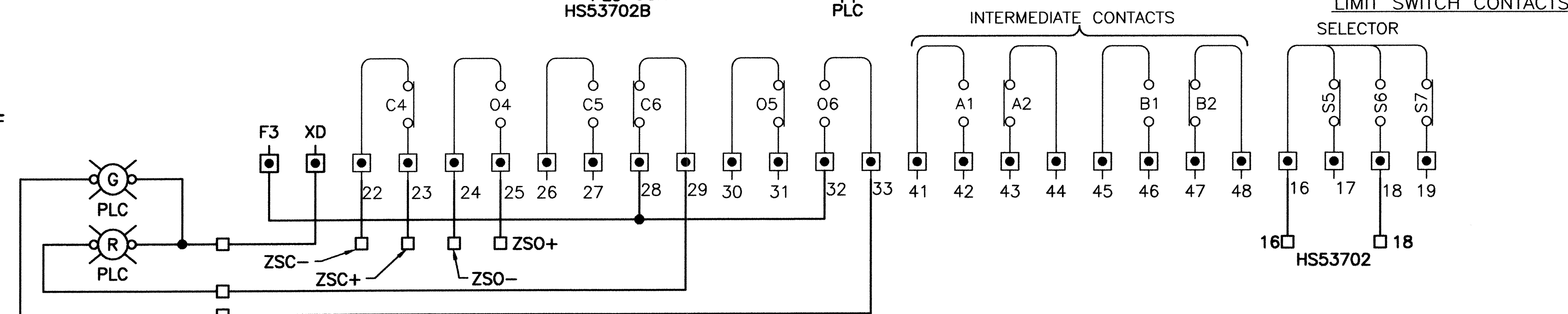
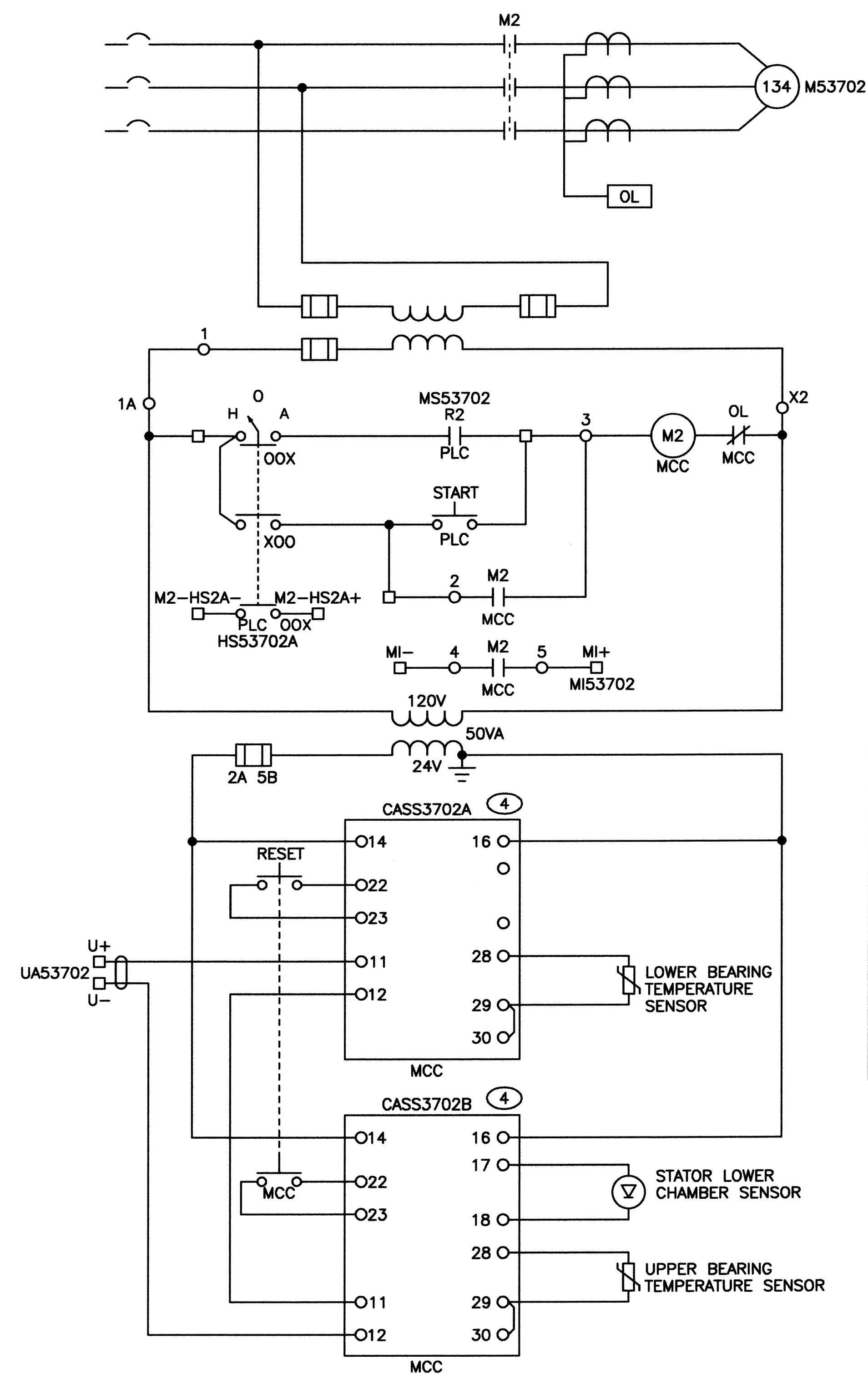
LIFT PUMP #1

SCHEMATICS

Design: Review Committee 		City Engineer Approval 		Last Design Update <table border="1"> <tr> <th>Mo./Day/Yr.</th> <th>Mo./Day/Yr.</th> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>		Mo./Day/Yr.	Mo./Day/Yr.										
Mo./Day/Yr.	Mo./Day/Yr.																
City Project No. 4682.91		Zone Map No. L-14		Sheet E-07													
11 of 25		11 of 25															

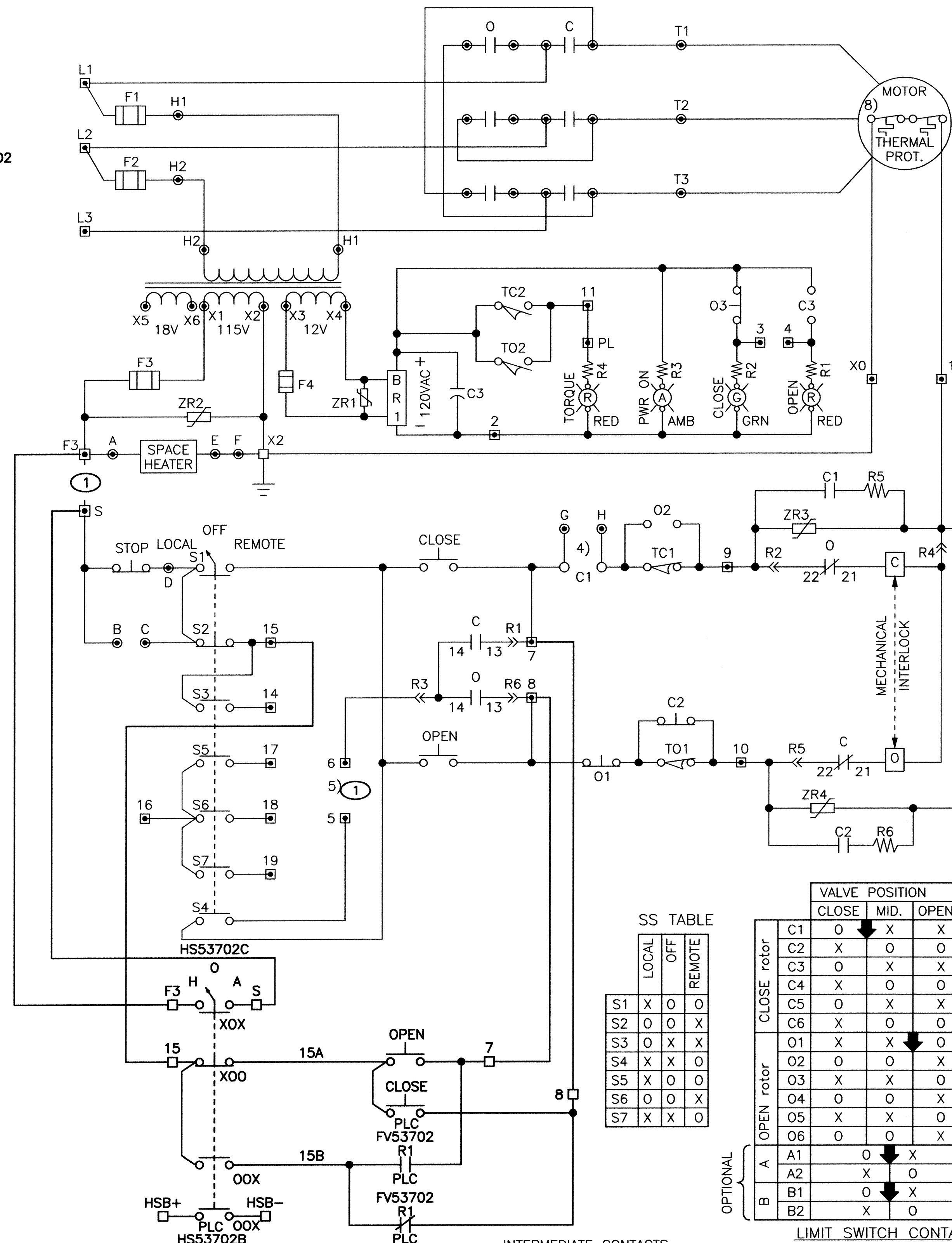
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				ACCEPTANCE BY DATE
				FIELD DATE
				VERIFICATION BY DATE
				DRAWINGS DATE
				CORRECTED BY DATE
				MICRO-FILM INFORMATION
				RECORDED BY DATE
			NO.	

EAB37E07.DWG 1=1 7/3/02



KEYED NOTES

- ① REMOVE JUMPER.
- ② VALVE CONTROL SHOWN IN CLOSED POSITION WITH SELECTOR SWITCH IN LOCAL.
- ③ LIGHT PEN WEIGHT INDICATES COMPONENTS INTEGRAL TO VALVE OPERATOR.
- ④ INSTALL OFE CAS MONITORING UNITS IN MCC COMPARTMENT.



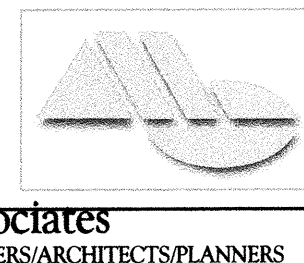
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S2	0	0	X
S3	0	X	X
S4	X	X	0
S5	X	0	0
S6	0	0	X
S7	X	X	0

		VALVE POSITION			CONTACT FUNCTION
		CLOSE	MID.	OPEN	
CLOSE rotor	C1	0	X	X	CLOSE COIL
	C2	X	0	0	BYPASS T01
	C3	0	X	X	OPEN LAMP
	C4	X	0	0	SPARE
	C5	0	X	X	SPARE
	C6	X	0	0	SPARE
OPEN rotor	O1	X	X	0	OPEN COIL
	O2	0	0	X	BYPASS TC1
	O3	X	X	0	CLOSE LAMP
	O4	0	0	X	SPARE
	O5	X	X	0	SPARE
	O6	0	0	X	SPARE
OPTIONAL	A1	0	X	0	SPARE
	A2	X	0	0	SPARE
	B1	0	X	0	SPARE
	B2	X	0	0	SPARE

LIMIT SWITCH CONTACTS

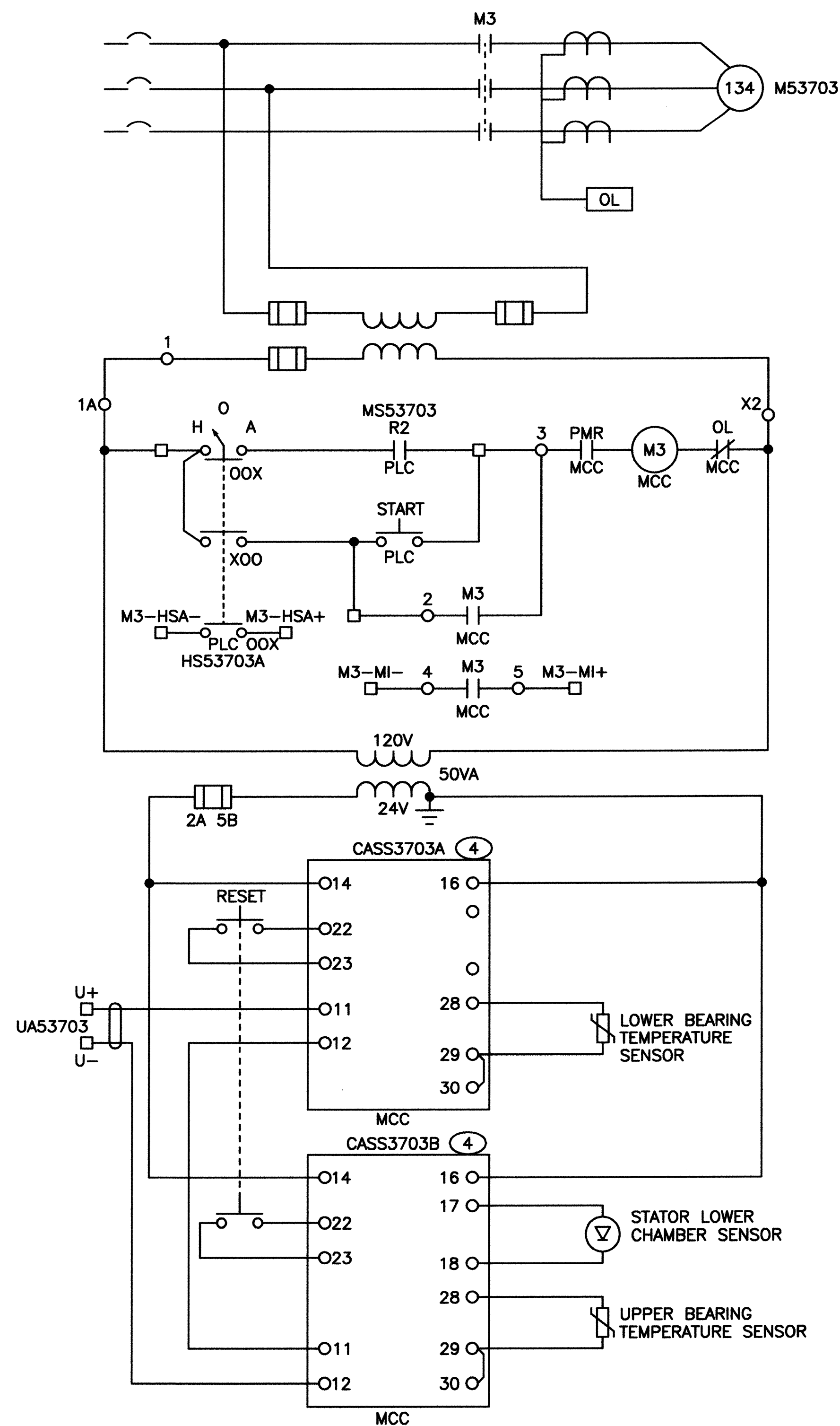
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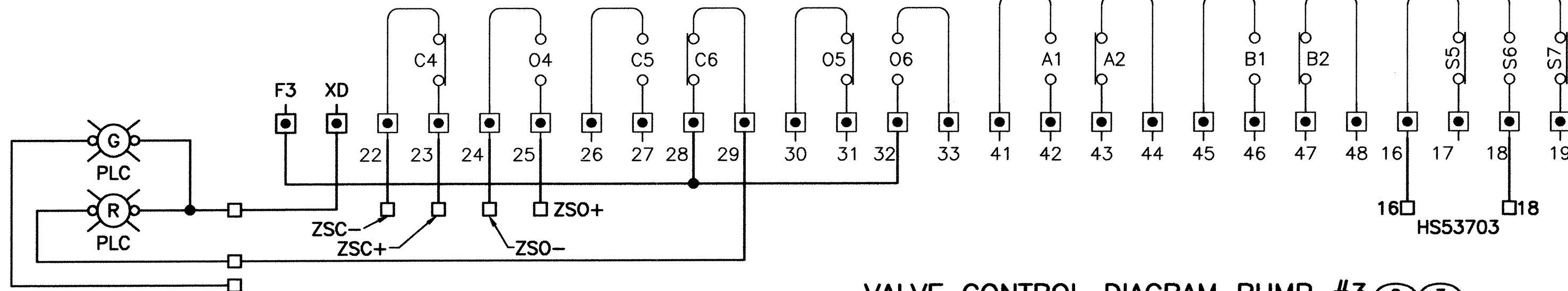
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		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: STORM WATER PUMP STATION #37 REHABILITATION			
BELL STATION #37 LIFT PUMP #2 SCHEMATICS			
Design Review Committee 	City Engineer Approval 	Mo./Day/Yr. 	Mo./Day/Yr.
City Project No. 4682.91	Zone Map No. L-14	Sheet E-08	12 of 25

ENGINEER'S SEAL 		REVISIONS NO. DATE REMARKS 	
AS BUILT INFORMATION CONTRACTOR: _____ INSPECTOR: _____ FIELD: _____ VERIFICATION: _____ CORRECTED: _____ MICRO-FILM INFORMATION RECORDED BY: _____ NO. _____		SURVEY INFORMATION FIELD NOTES NO. _____ BY: _____ DATE: _____	
BENCH MARKS 			



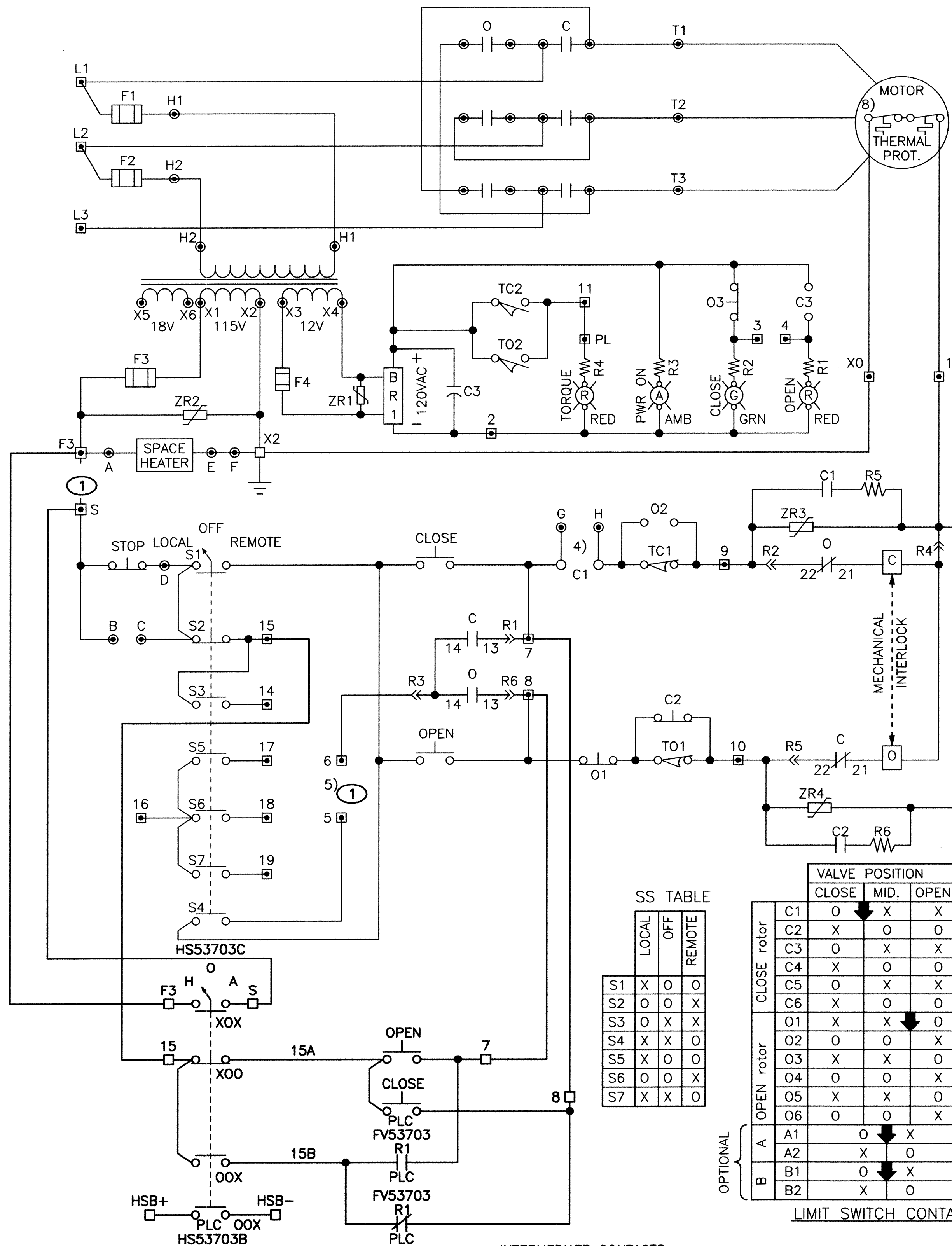
SCHEMATIC DIAGRAM FOR LIFT PUMP #3
N.T.S.



VALVE CONTROL DIAGRAM PUMP #3 ② ③
N.T.S.

KEYED NOTES

- 1 REMOVE JUMPER.
- 2 VALVE CONTROL SHOWN IN CLOSED POSITION WITH SELECTOR SWITCH IN LOCAL.
- 3 LIGHT PEN WEIGHT INDICATES COMPONENTS INTEGRAL TO VALVE OPERATOR.
- 4 INSTALL OFE CAS MONITORING UNITS IN MCC COMPARTMENT.



SS TABLE

	LOCAL	OFF	REMOTE
S1	X	O	O
S2	O	O	X
S3	O	X	X
S4	X	X	O
S5	X	O	O
S6	O	O	X
S7	X	X	O

LIMIT SWITCH CONTACTS

	VALVE POSITION			CONTACT FUNCTION
	CLOSE	MID.	OPEN	
C1	O	X	X	CLOSE COIL
C2	X	O	O	BYPASS TO1
C3	O	X	X	OPEN LAMP
C4	X	O	O	SPARE
C5	O	X	X	SPARE
C6	X	O	O	SPARE
O1	X	X	O	OPEN COIL
O2	O	O	X	BYPASS TC1
O3	X	X	O	CLOSE LAMP
O4	O	O	X	SPARE
O5	X	X	O	SPARE
O6	O	O	X	SPARE
A1	O	X	X	SPARE
A2	X	X	O	SPARE
B1	O	X	X	SPARE
B2	X	O	O	SPARE

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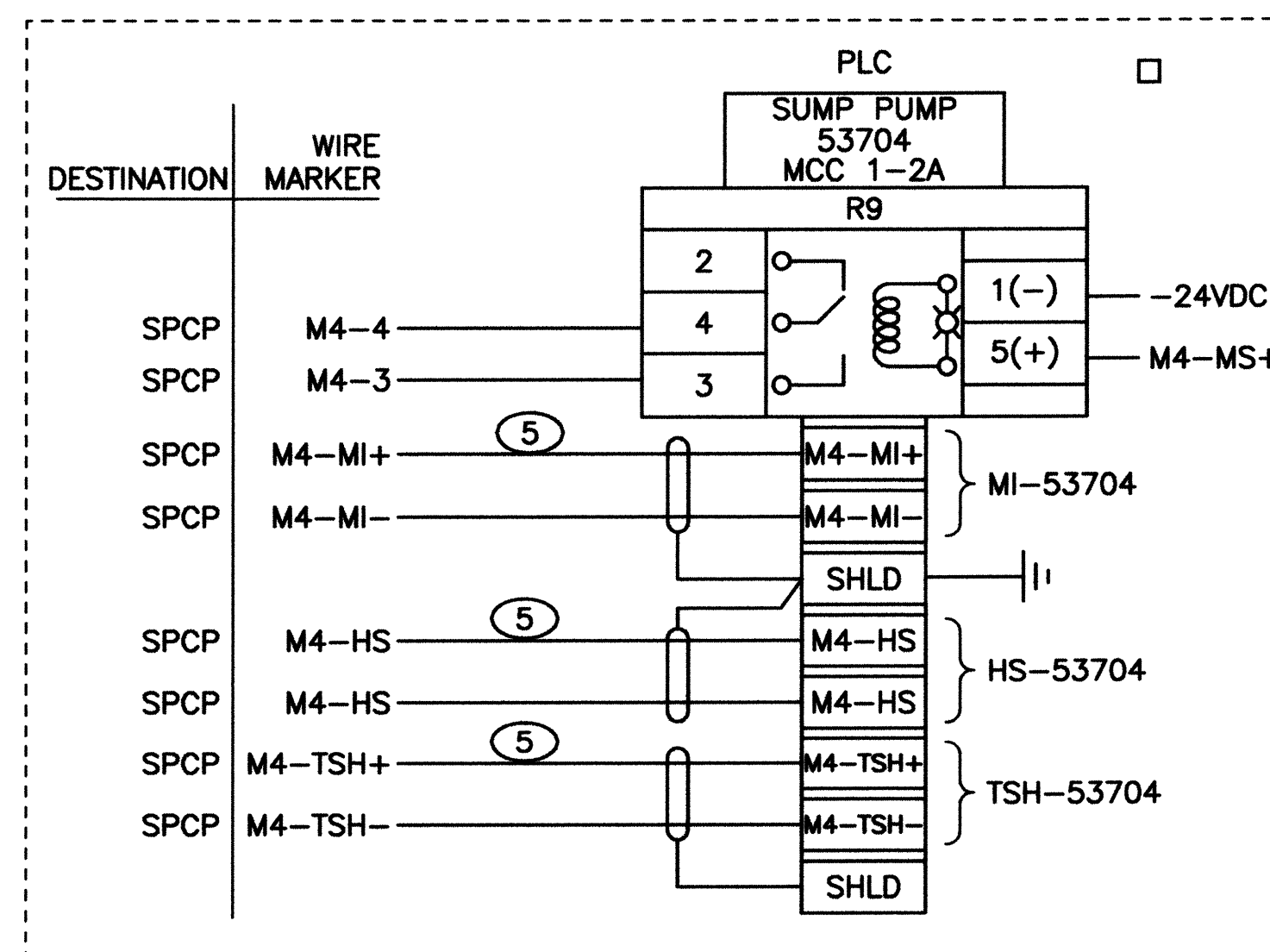
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ENGINEERS/ARCHITECTS/PLANNERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: STORM WATER PUMP STATION #37 REHABILITATION
BELL STATION #37
LIFT PUMP #3
SCHEMATICS

Design Review Committee: JUL 19 2002
City Engineer Approval: JUL 19 2002
City Engineer: [Signature]

City Project No. 4682.91
Zone Map No. L-14
Sheet E-09 13 of 25



CONTROL DIAGRAM



N.T.S.

- ① MODIFY SUMP PUMP CONTROL CIRCUITRY AS SHOWN TO PROVIDE PLC CONTROL AND MONITORING OF EQUIPMENT OPERATIONS.
- ② REUSE EXISTING TERMINAL BOARD POINTS. RE-LABEL AS INDICATED.
- ③ CUT SHIELD 1/2" SHORTER THAN PAIRED CABLE. INSULATE SHIELD WITH HEAT SHRINK TUBING.
- ④ REMOVE SUMP PUMP CONTROL FLOATS. STORE AS DIRECTED BY OWNER REPRESENTATIVE. IF SERVICEABLE, REUSE CONDUIT INSTALLED FROM SUMP PUMP CONTROL PANEL TO WET WELL. IF EXISTING CONDUIT IS DAMAGED OR OTHERWISE NOT SERVICEABLE, REPLACE.
- ⑤ SINGLE PAIR TWSH FROM PLC TO SUMP PUMP CONTROL PANEL.
- ⑥ PROVIDE AND INSTALL CONTACT BLOCK FOR EXISTING HOA SWITCH.

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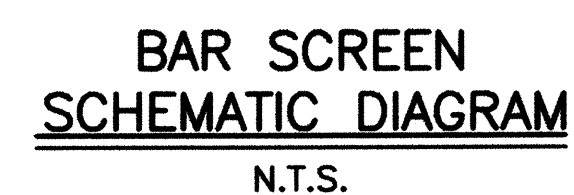


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 ENGINEERING DEVELOPMENT GROUP

TITLE: STORM WATER PUMP STATION #37 REHABILITATION
 BELL STATION #37
 SUMP PUMP
 CONTROL SCHEMATIC

Design Review Committee 		City Engineer Approval 		Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
CITY PROJECT NO. 4682.91		Zone Map No. L- 14			Sheet E- 10	14 of 25



The diagram illustrates the wiring for a PLC system. It includes a table of destinations and wire markers, and a detailed wiring diagram showing the connections between the PLC, BSCP, and 2CR.

DESTINATION	WIRE MARKER
BSCP	M41-MI
BSCP	M41-MI
BSCP	M41-HS+
BSCP	M41-HS+
BSCP	M41-MA+
BSCP	M41-MA-

The wiring diagram shows the following connections:

- PLC M41-MI+ to BSCP M41-MI+
- PLC M41-MI- to BSCP M41-MI-
- PLC M41-HS+ to BSCP M41-HS+
- PLC M41-HS+ to BSCP M41-HS+
- PLC M41-MA+ to BSCP M41-MA+
- PLC M41-MA- to BSCP M41-MA-

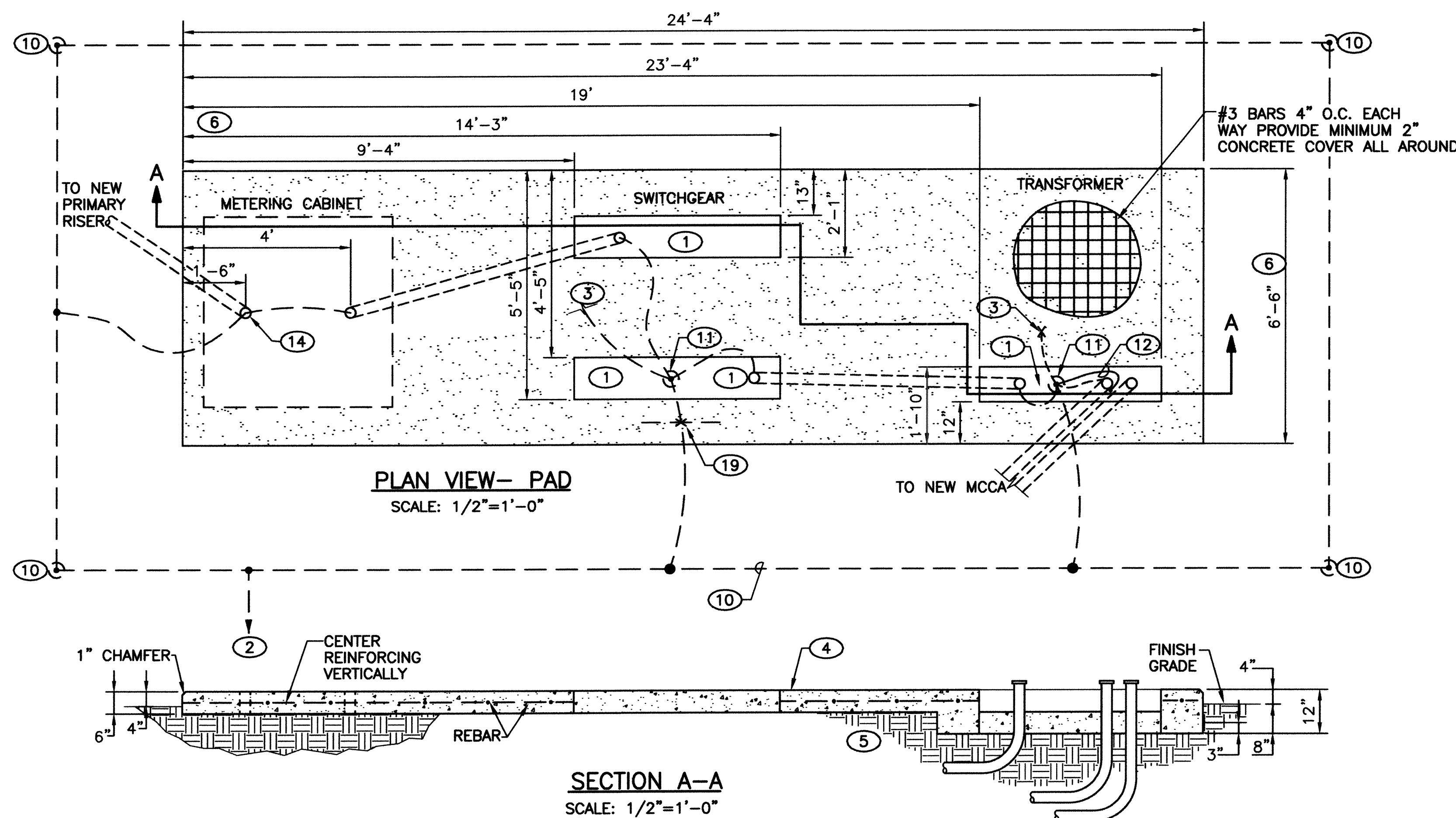
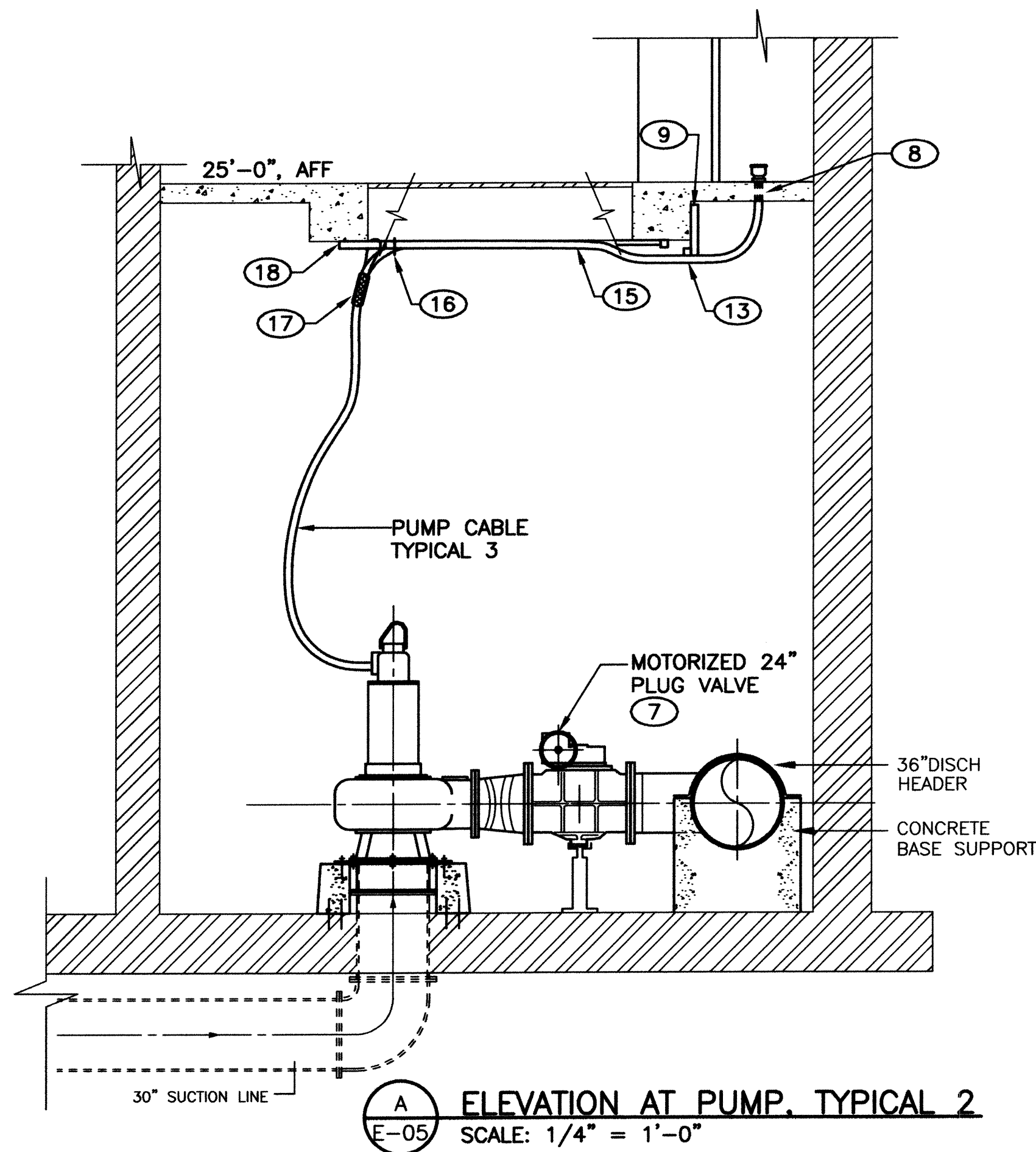
The BSCP is connected to the 2CR via a BARS screen. The 2CR is connected to the PLC via a BARS screen.

- ① REMOVE CONDUCTORS TO EXISTING CONTROLLER.
- ② PROVIDE AND INSTALL CONTACT BLOCK FOR EXISTING HOA SWITCH.
- ③ INSTALL RELAY IN EXISTING CONTROL PANEL.
CONNECT FOR ALARM TO PLC.
- ④ ADJUST SWITCHES FOR PROPER OPERATION.
- ⑤ 3 PAIR TWSH.
- ⑥ CUT SHIELD 1/2" SHORTER THAN THE STRIPPED CABLE PAIRS. INSTALL HEAT SHRINK TUBING TO INSULATE THE SHIELD.

[illegible]

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TITLE: STORM WATER PUMP STATION #37 REHABILITATION BELL STATION #37 BARSCREEN DIAGRAMS																						
Design Review Committee APPROVED JUL 19 2002 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED JUL 19 2002 CITY ENGINEER	Last Design Update	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Mo./Day/Yr.</th> <th style="text-align: center;">Mo./Day/Yr.</th> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	Mo./Day/Yr.	Mo./Day/Yr.									<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">City Project No.</td> <td style="width: 30%;">Zone Map No.</td> <td style="width: 20%;">Sheet</td> <td style="width: 20%;">15 of 25</td> </tr> <tr> <td style="text-align: center; font-size: 1.2em;">4682.91</td> <td style="text-align: center; font-size: 1.2em;">L-14</td> <td style="text-align: center; font-size: 1.2em;">E-11</td> <td> </td> </tr> </table>	City Project No.	Zone Map No.	Sheet	15 of 25	4682.91	L-14	E-11	
Mo./Day/Yr.	Mo./Day/Yr.																					
City Project No.	Zone Map No.	Sheet	15 of 25																			
4682.91	L-14	E-11																				

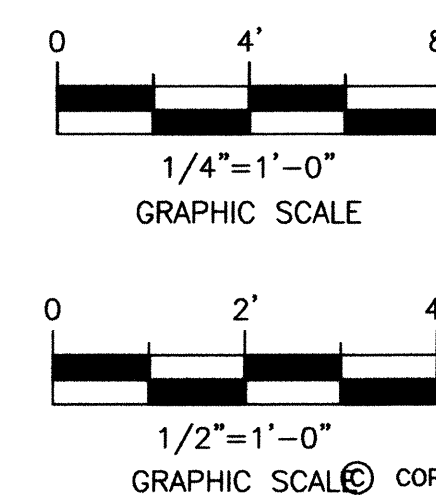


KEYED NOTES

- ① NO CONCRETE IN TROUGH AREA.
- ② TO PLC.
- ③ CONNECT TO EQUIPMENT GROUND BAR WITH #4/0, TYPICAL.
- ④ 3000 PSI CONCRETE. LEVEL WITHIN $\pm 1/4$ INCH IN FIVE FEET. TROWEL FINISH TO PROVIDE A TRUE PLANE WITHIN $1/16$ INCH IN FIVE FEET AS DETERMINED BY A FIVE FOOT STRAIGHTEDGE.
- ⑤ COMPACT EXISTING SOIL AND ENGINEERED FILL TO MINIMUM 95% MODIFIED PROCTOR.
- ⑥ DIMENSIONS SHOWN ARE TYPICAL. ADJUST DIMENSIONS TO ACCOMMODATE EQUIPMENT FURNISHED. MAINTAIN MINIMUM THREE FEET CLEARANCE ON EACH SIDE OF SWITCHGEAR. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE AROUND TRANSFORMER. MAINTAIN CLEARANCE AROUND PRIMARY METERING ENCLOSURE AS REQUIRED BY PNM STANDARDS.
- ⑦ ILLUSTRATIVE. SEE DRAWING C-03 FOR ACTUAL ORIENTATION.
- ⑧ CORE DRILL FLOOR AT STARTER FOR PUMP 2 AND FOR PUMP 3, TOTAL OF SIX PENETRATIONS. INSTALL CONDUITS. INSTALL BUSHINGS AND BONDS AS SPECIFIED. SEAL AROUND CONDUITS WITH SILICONE SEAL. SEE E-05 FOR PUMP 1 CONDUIT.
- ⑨ THREE VERTICAL STRUT, EACH ANCHORED WITH $1/2$ " DIAMETER DRILLED IN EPOXY-SET ANCHOR. ONE HORIZONTAL STRUT BOLTED TO VERTICAL STRUTS.
- ⑩ CONSTRUCT GROUND GRID OF #4/0 BARE COPPER AND 5/8 INCH BY 12 FOOT GROUND RODS 3 FEET OUTSIDE THE PERIMETER OF THE PAD. BURY #4/0 AT THREE FEET BELOW GRADE. RISE UP AT RODS TO CONNECT INSIDE GROUND WELL. PROVIDE GROUND WELLS AND MARKINGS AS SPECIFIED.
- ⑪ 5/8 INCH BY 12 FOOT GROUND RODS FOR SWITCHGEAR AND TRANSFORMER. CONNECT TO GROUND GRID WITH #4/0.
- ⑫ CONNECT DUCT BANK GROUND TO GROUND ROD.
- ⑬ EXTEND STRUT DOWN TO ACCOMMODATE BENDING RADIUS OF CONDUIT.
- ⑭ BOND TO METAL CONDUITS, TYPICAL.
- ⑮ OFFSET VERTICALLY UP SO CONDUITS ARE SUPPORTED RIGHT AT BOTTOM OF BEAM. OFFSET HORIZONTALLY TOWARD CENTERLINE OF PUMP FOR EASY ACCESS TO CABLES FOR FUTURE MAINTENANCE. CONTROL HORIZONTAL OFFSET SO CONDUITS DO NOT INTERFERE WITH REMOVAL/REPLACEMENT OF PUMP.
- ⑯ INSULATED THROAT BUSHING, TYPICAL.
- ⑰ CABLE GRIP ON EACH CABLE. KELLEMS STANDARD DUTY, SINGLE OFFSET EYE, SINGLE WEAVE, TIN-COATED BRONZE, SPLIT MESH, ROD CLOSING.
- ⑱ TWO STRUT IN NORTH-SOUTH DIRECTION. THREE STRUT IN EAST-WEST DIRECTION. CANTILEVER EW STRUT FOR SUPPORT OF CONDUIT TOWARD PUMP CENTERLINE.
- ⑲ BRAZE GROUNDING CONDUCTOR TO REINFORCING ROD.

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP		TITLE: STORM WATER PUMP STATION #37 REHABILITATION BELL STATION #37 ELECTRICAL DETAILS	
Design Review Committee JUL 19 2002 DESIGN REVIEW COMMITTEE	City Engineer Approval JUL 19 2002 CITY ENGINEER	Mo./Day/Yr. Mo./Day/Yr.	Mo./Day/Yr. Mo./Day/Yr.
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EQUIPMENT		EQUIPMENT		VALVES		P & ID INSTRUMENTATION		FUNCTION SYMBOLS					BENCH MARKS		AS BUILT INFORMATION			
	CONE ROOF TANK		CENTRIFUGAL PUMP		NORMALLY OPEN ANGLE VALVE SOLID - NORMALLY CLOSED		FLOW STRAIGHTENING VANE	FIELD MOUNTED		FIELD DEVICE	OPERATOR INTERFACE UNIT		COMPUTER FUNCTION	CONTRACTOR DATE INSPECTOR'S DATE FIELD DATE VERIFICATION BY DATE CORRECTED BY DATE MICRO-FILM INFORMATION DATE NO.	DATE			
	FLOATING ROOF TANK		ROTARY PUMP		3 - WAY VALVE SOLID - CLOSED PORT		BLIND FLANGE	PLC CABINET MOUNTED/ ACCESSIBLE TO OPERATOR		CONTROLS	INDICATOR LIGHT							
	STIRRED TANK		MOTOR		4 - WAY VALVE		HANDWHEEL	INACCESSIBLE TO OPERATOR/ INDICATION ONLY										
	HEATED AND STIRRED TANK		TURBINE		NORMALLY OPEN BALL VALVE SOLID - NORMALLY CLOSED 4" - VALVE SIZE		DIAPHRAGM ACTUATOR, SPRING OPPOSED, WITH POSITIONER	REMOTE PANEL CONTROLLER MOUNTED										
	BIN		COMPRESSOR		NORMALLY OPEN BUTTERFLY VALVE SOLID - NORMALLY CLOSED 10" - VALVE SIZE		DIAPHRAGM ACTUATOR, PRESSURE BALANCED	FUNCTIONAL IDENTIFICATION								ENGINEER'S SEAL	NO.	DATE
	PRESSURIZED SPHERICAL VESSEL		EJECTOR		CHECK VALVE 8" - VALVE SIZE		MOTORIZED ACTUATOR	MEASURED OR INITIATING VARIABLE		MODIFIER	READOUT OR PASSIVE FUNCTION		OUTPUT FUNCTION	MODIFIER				
	HORIZONTAL DRUM VESSEL		CYCLONE		NORMALLY OPEN COCK VALVE SOLID - NORMALLY CLOSED 2" - VALVE SIZE		CYLINDER ACTUATOR	A	ANALYSIS			ALARM						
	VERTICAL DRUM VESSEL		LIQUID FILTER		NORMALLY OPEN GATE VALVE SOLID - NORMALLY CLOSED 8" - VALVE SIZE		ELECTROHYDRAULIC ACTUATOR	B	BURNER, COMBUSTION			USER'S CHOICE	USER'S CHOICE	BACKWARD				
	TOWER		DRUM FILTER		NORMALLY OPEN GLOBE VALVE SOLID - NORMALLY CLOSED 4" - VALVE SIZE		SOLENOID ACTUATOR	C	USER'S CHOICE				CONTROL					
	PACKED TOWER		STATIC MIXER		NORMALLY OPEN HAND VALVE SOLID - NORMALLY CLOSED 2" - VALVE SIZE		PRESSURE RELIEF	D	USER'S CHOICE	DIFFERENTIAL								
	TRAYED TOWER		EXCHANGER		NORMALLY OPEN NEEDLE VALVE SOLID - NORMALLY CLOSED 2" - VALVE SIZE		PRESSURE REDUCING REGULATOR	E	VOLTAGE			SENSOR (ELEMENT)						
	THICKENER TANK		SHELL AND TUBE EXCHANGER		NORMALLY OPEN PINCH VALVE SOLID - NORMALLY CLOSED 2" - VALVE SIZE		BACKPRESSURE REGULATOR	F	FLOW RATE	RATIO (FRACTION)			FORWARD					
			DOUBLE PIPE EXCHANGER		NORMALLY OPEN PLUG VALVE SOLID - NORMALLY CLOSED 6" - VALVE SIZE		RELIEF ARROW	G	USER'S CHOICE			GLASS, VIEWING DEVICE						
			AIR EXCHANGER		NORMALLY OPEN STRAHMAN VALVE SOLID - NORMALLY CLOSED 4" - VALVE SIZE		PRESSURE AND VACUUM RELIEF ARROW	H	HAND			INDICATE		HIGH				
			VESSEL INSULATION		NORMALLY OPEN UNCLASSIFIED VALVE SOLID - NORMALLY CLOSED 8" - VALVE SIZE		MAGNETIC CLUTCH	I	CURRENT (ELEC)									
			FLOW NOZZLE		ISOLATION VALVE		OUTPUT FROM COMPUTER CONTROL SYSTEM	J	POWER	SCAN								
			MANHOLE		ORIFICE PLATE		INPUT TO COMPUTER CONTROL SYSTEM	K	TIME, TIME SCHEDULE	TIME RATE OF CHANGE			CONTROL STATION					
			THERMOWELL		ROTAMETER			L	LEVEL			LIGHT		LOW				
			REDUCER		FE 70102 - LOOP NUMBER			M	MOTOR	MOMENTARY			MIDDLE, INTERMEDIATE					
					VENTURI TUBE			N	INDICATOR			USER'S CHOICE	USER'S CHOICE	USER'S CHOICE				
					FLUME			O	USER'S CHOICE			ORIFICE, RESTRICTION						
					WEIR			P	PRESSURE, VACUUM			POINT (TEST) CONNECTION						
					TURBINE FLOW METER			Q	QUANTITY	INTEGRATE, TOTALIZE								
								R	RADIATION			RECORD		RUN				
								S	SPEED, FREQUENCY	SAFETY			SWITCH	STOP				
								T	TEMPERATURE				TRANSMIT					
								U	MULTIVARIABLE			MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION				
								V	VIBRATION, MECHANICAL ANALYSIS				VALVE, DAMPER, LOUVER					
								W	WEIGHT, FORCE			WELL						
								X	UNCLASSIFIED	X AXIS			POLARIZER					
								Y	EVENT, STATE OR PRESENCE	Y AXIS			RELAY, COMPUTE, CONVERT					
								Z	POSITION, DIMENSION	Z AXIS			DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT					
NOTE: NOT ALL SYMBOLS ARE USED ON PLANS.																		
				LINE LEGEND				PACKAGE LEGEND										
				PROCESS LINE				* - PACKAGE SYSTEM										
				INSULATED PROCESS LINE				** - ELECTRICAL SPECIFICATION										
				INSULATED AND HEAT TRACED PROCESS LINE				*** - EXISTING										
				ELECTRIC SIGNAL LINE				INSTRU. ID EXAMPLE SYMBOL										
				SOFTWARE LINE				PWR - POWER SUPPLY										
				ELECTROMAGNETIC SIGNAL LINE				HS - FUNCTION										
				ELECTRIC BINARY SIGNAL LINE				LOC 53701A - PACKAGE LEGEND										
								PANEL LEGEND										
								FIRST LETTER										
								SUCCEEDING LETTER										
								TAG NUMBER										
								VFD - VARIABLE FREQUENCY DRIVE										
								OIU - OPERATOR INTERFACE (PLC DOOR)										
								SC - SPEED CONTROL										
								F - FIELD										

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PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: STORM WATER PUMP STATION #37 REHABILITATION

**BELL STATION #37
INSTRUMENTATION
LEGEND**

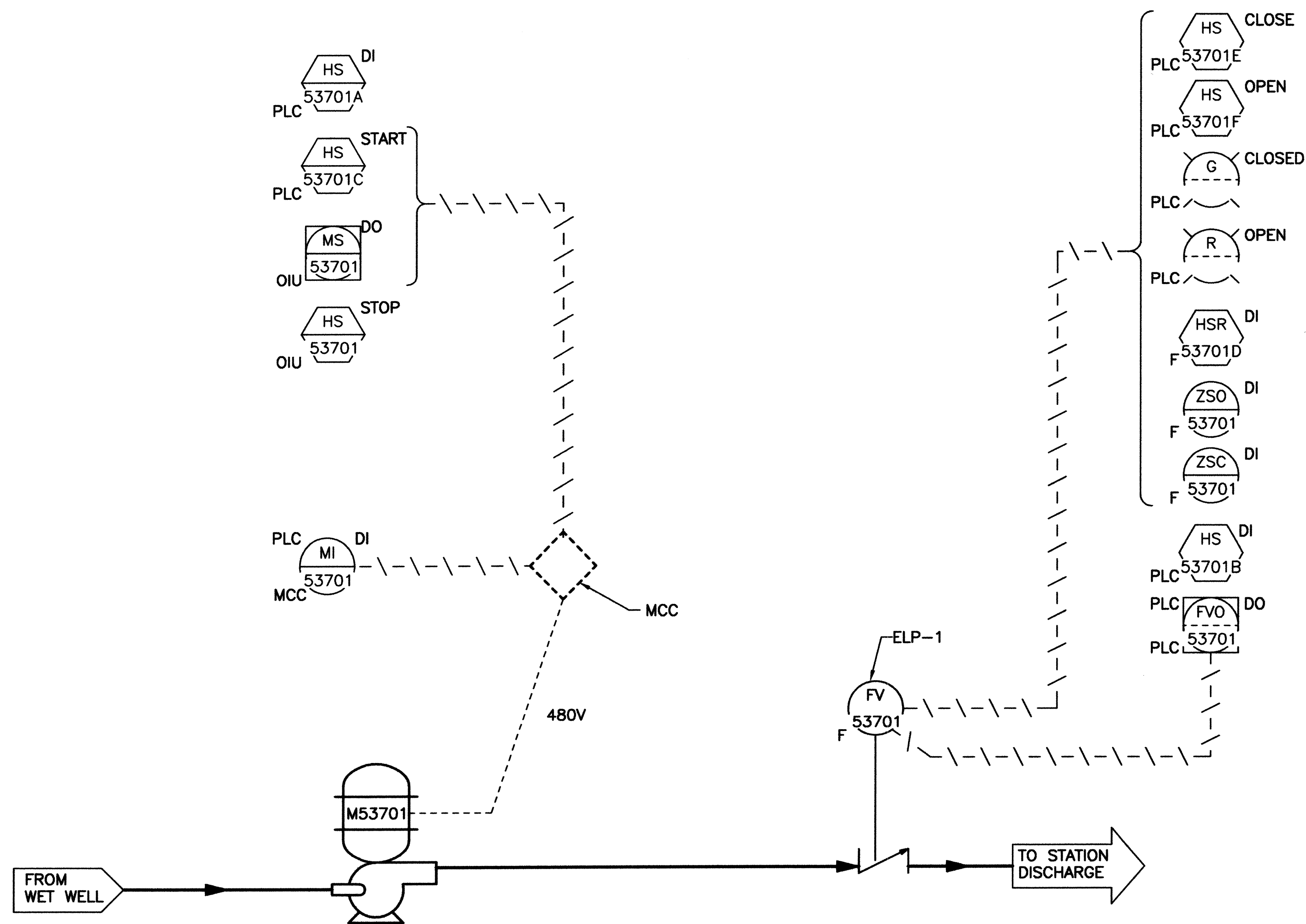
Design Review Committee
APPROVED
JUL 19 2002
DESIGN REVIEW COMMITTEE

City Engineer Approval
APPROVED
JUL 19 2002
CITY ENGINEER

Mo./Day/Yr. Mo./Day/Yr.

DESIGNED BY: WNH DATE: 10-00
DRAWN BY: RA DATE: 10-00
CHECKED BY: SES DATE: 7-02

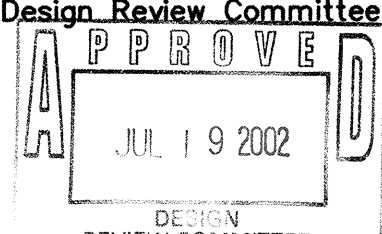
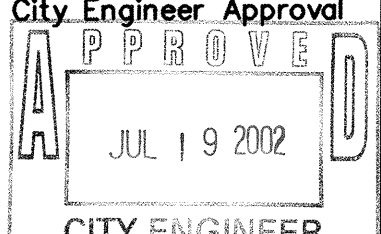
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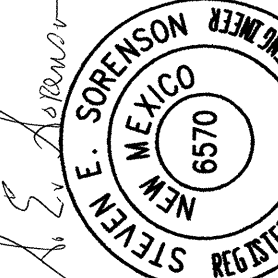


PUMP #1 PID DIAGRAM
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BELL STATION #37			
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ENGINEER'S SEAL		REVISIONS		REMARKS		BY	
							
DESIGNED BY		WNH		DATE		10-00	
DRAWN BY		RA		DATE		10-00	
CHECKED BY		SES		DATE		7-02	

SURVEY INFORMATION		FIELD NOTES		BENCH MARKS		AS BUILT INFORMATION	
NO.		BY		DATE		CONTRACTOR	
						STANDARD BY	
						INSPECTOR'S	
						FIELD	
						VERIFICATION BY	
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						RECORDED BY	
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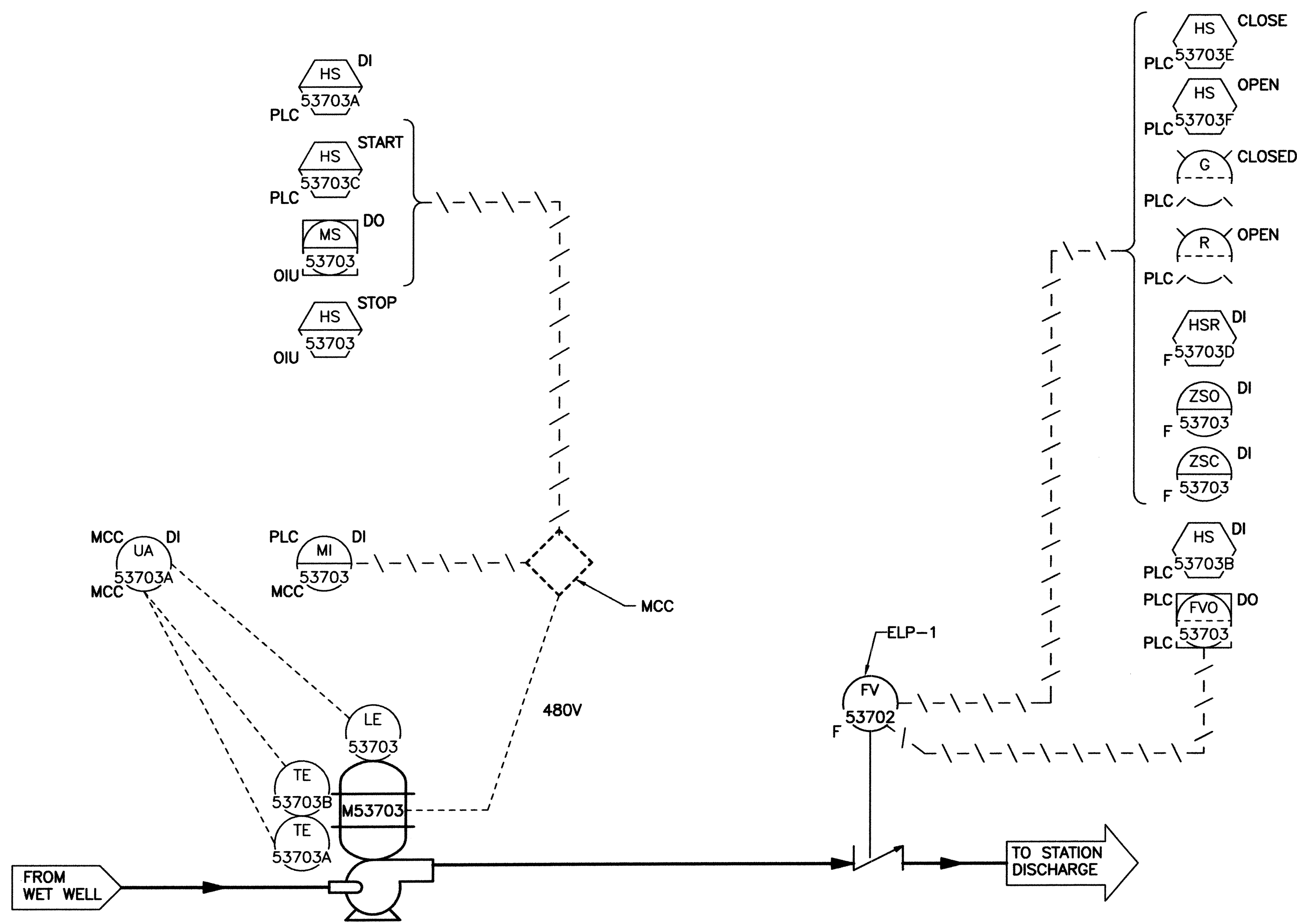


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PUMP #3 PID DIAGRAM
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City Project No.	Zone Map No.	Sheet	22 Of 25
4682.91	L-14	1-04	

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	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP		
TITLE: STORM WATER PUMP STATION #37 REHABILITATION			
BELL STATION #37			
ELECTRICAL P & ID			
DIAGRAM, SHEET 4			
Design Review Committee APPROVE  JUL 19 2002 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVE  JUL 19 2002 CITY ENGINEER	Last Design Update Mo./Day/Yr. 	Mo./Day/Yr.
City Project No. 4682.91	Zone Map No. L-14	Sheet 1-05	23 of 25

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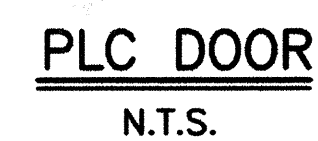
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	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP														
TITLE: STORM WATER PUMP STATION #37 REHABILITATION BELL STATION #37 LOOP DIAGRAMS, SHEET 1															
Design Review Committee JUL 19 2002 DESIGN REVIEW COMMITTEE	City Engineer Approval JUL 19 2002 CITY ENGINEER	Last Design Update	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Mo./Day/Yr.</th> <th style="width: 50%;">Mo./Day/Yr.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	Mo./Day/Yr.	Mo./Day/Yr.										
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City Project No. 4682.91	Zone Map No. L-14	Sheet 1-06													
24 of 25															



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