

CITY OF ALBUQUERQUE

ELECTRICAL AND MECHANICAL

PHASE IV

WATER SYSTEM REHABILITATION



WILLIAM J. STUART
7/22/94

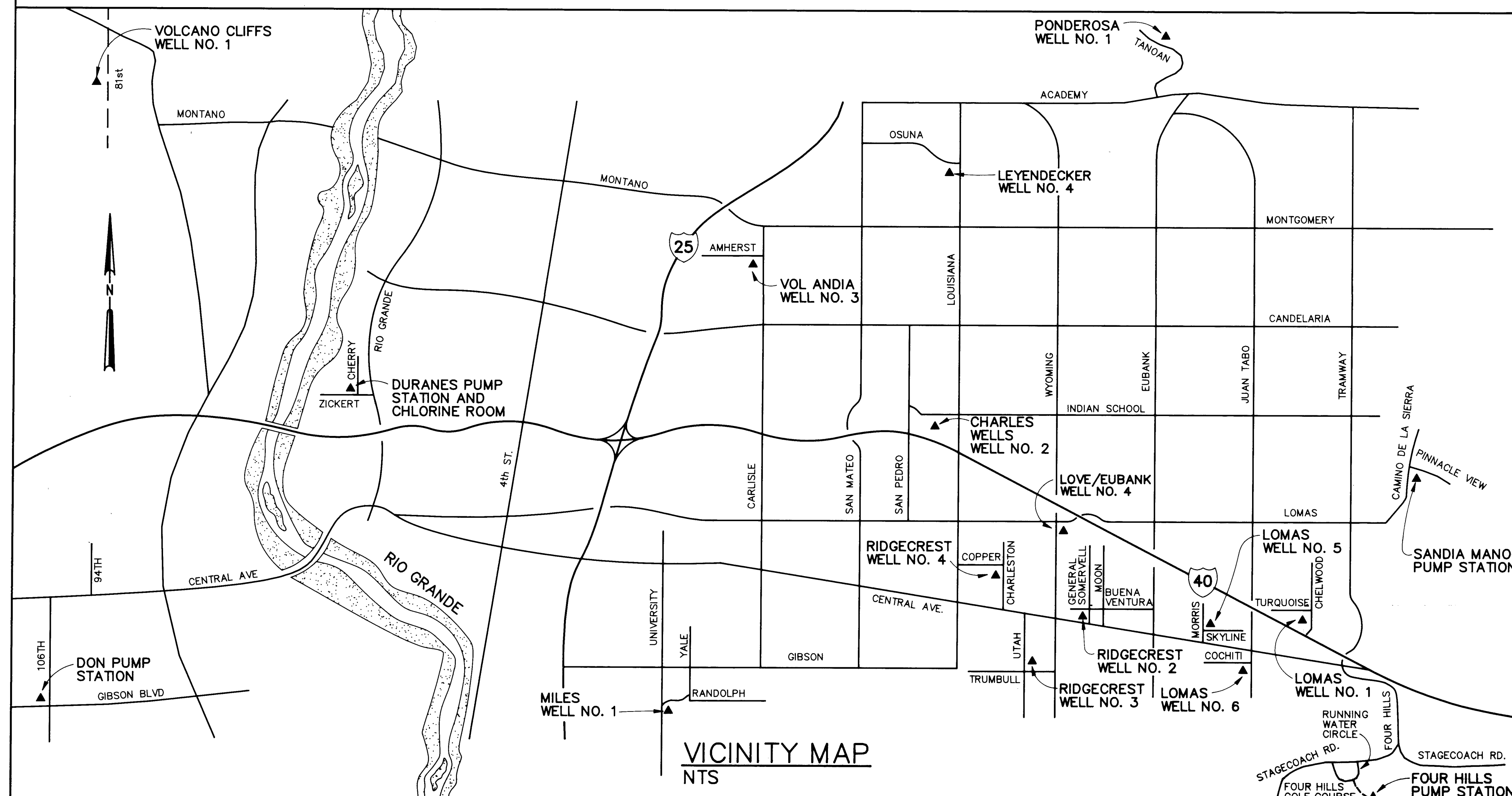
RECORD DRAWINGS

Revisions Drawn by R. GONZALES Date 7/21/94

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

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VICINITY MAP
NTS

SCANNED BY
BY LASON

26 4366.940194

REV	SHEETS	CITY ENGINEER	DATE	USER DEPT	DATE	USER DEPT	DATE
APPROVAL OF REVISIONS							
CH2M HILL 6121 Indian School Rd, NE Suite 122 Albuquerque, New Mexico 87110 (505) 884-5600				APPROVED FOR CONSTRUCTION 8/17/94 CE			
PROJECT NO. 4366.94				SHEET 1 OF 43			

ABBREVIATIONS

⊙	AT	MAX	MAXIMUM
A	ANCHOR	MB	MACHINE BOLT
AB	ANCHOR BOLT	MECH	MECHANICAL
AC	ASBESTOS CEMENT PIPE	MH	MANHOLE
AL	ALUMINUM	MJ	MECHANICAL JOINT
APPROX	APPROXIMATELY	MIN	MINIMUM
BFV	BUTTERFLY VALVE	MPW	MAXIMUM PAVEMENT WIDTH
BLDG	BUILDING	NO	NUMBER
BOT	BOTTOM	NOM	NOMINAL
BSW	BACK OF SIDEWALK	NTS	NOT TO SCALE
CCP	CONCRETE CYLINDER PIPE	OC	ON CENTER
CI	CAST IRON	OD	OUTSIDE DIAMETER
CL	CENTER LINE	OPNG	OPENING
CLR	CLEAR	PE	PLAIN END
CMU	CONCRETE MASONRY UNIT	PL	PLATE
CONC OR CON	CONCRETE	PP	POWER POLE
CP	CONCRETE PIPE	PRV	PRESSURE REDUCING VALVE
CPLG	COUPLING	PVC	POLYVINYL CHLORIDE PIPE
CTR	CENTER	PWR	POWER
CTRD	CENTERED	RCP	REINFORCED CONCRETE PIPE
DI OR DIP	DUCTILE IRON PIPE	RDCR	REDUCER
DIA	DIAMETER	REINF	REINFORCED
DL	DROP LINE	REQ'D	REQUIRED
DWG	DRAWING	S	SPRINKLER
EA	EACH	SCV	SPRINKLER CONTROL VALVE
EB	ELECTRICAL BOX	SHT	SHEET
EF	EACH FACE	SIM	SIMILAR
EL OR ELEV	ELEVATION	SPA OR SPG	SPACING
ELEC	ELECTRICAL	SPEC'D	SPECIFIED
EOA	EDGE OF ASPHALT	SPECS	SPECIFICATIONS
EQ	EQUAL	SQ	SQUARE
EW	EACH WAY	SS OR SST	STAINLESS STEEL
EWEF	EACH WAY EACH FACE	STD	STANDARD
EXIST, EXST OR EXTG	EXISTING	STL OR ST	STEEL
FCA	FLANGE COUPLING ADAPTER	TC	TOP OF CURB
FF	FINISH FLOOR	TELE	TELEPHONE
FH	FIRE HYDRANT	TO	TOP OF
FL	FLOW LINE	TP	TRANSFORMER PAD
FLEX	FLEXIBLE	TR	TRANSFORMER
FLG	FLANGE	TRANS	TRANSITION
GA	GAUGE	TYP	TYPICAL
GALV	GALVANIZED	VCP	VITRIFIED CLAY PIPE
GP	GATE POST	VM	VALVE MARKER
GS	GALVANIZED STEEL	WM	WATER METER
GV	GATE VALVE	WS	WELDED STEEL
HT	HEIGHT	WSP	WELDED STEEL PIPE
ID	INSIDE DIAMETER	WV	WATER VALVE
LF	LINEAR FEET		

LEGEND

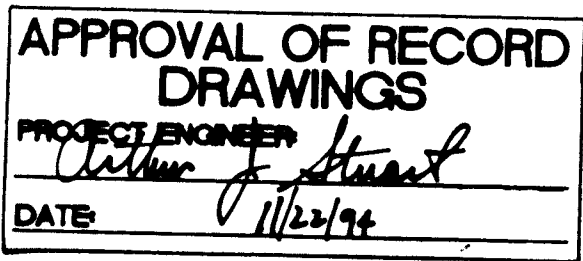
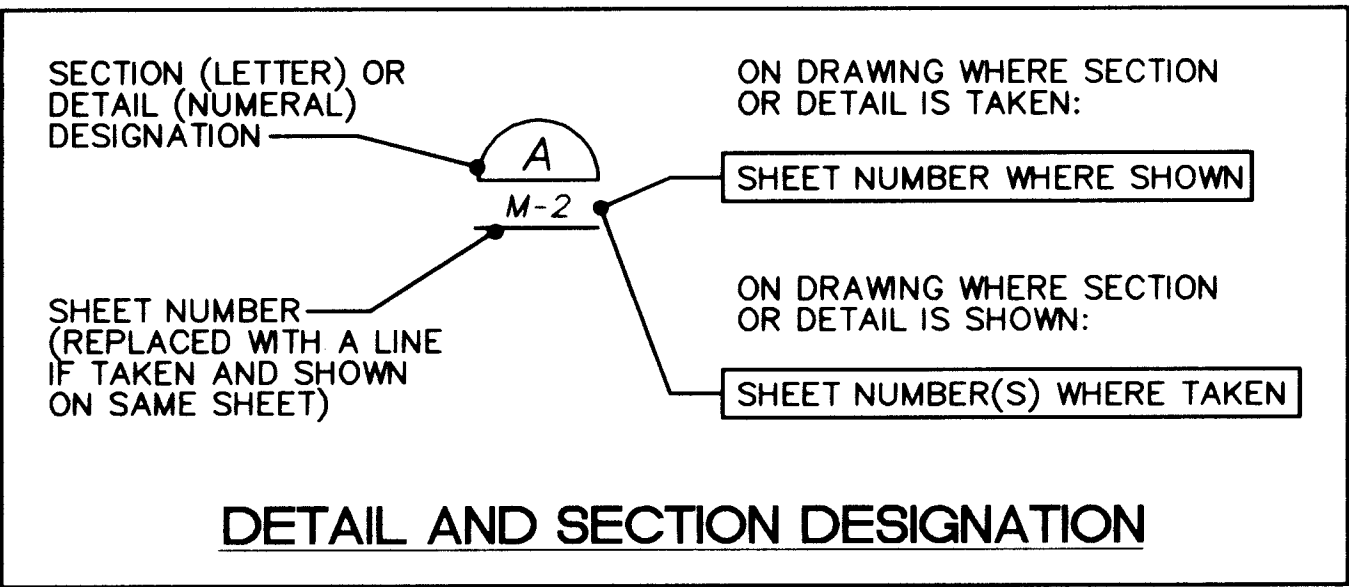
	SPOT ELEVATION		ANCHOR
	TEMPORARY BENCH MARK OR MARKS		CHAIN LINK FENCE
	REDUCER		MANHOLE (RAISED)
	GATE VALVE		MANHOLE
	BUTTERFLY VALVE		NEW MANHOLE
	CHECK VALVE		TREE (EVERGREEN)
	BALL VALVE		TREE (DECIDUOUS)
	GLOBE VALVE		OVERHEAD POWER LINE
	SOLENOID VALVE		GAS METER
	MAGNETIC FLOW METER		ANTENNA POLE
	CONTROL VALVE		CLEAN OUT
	WELD CONNECTION		EMBANKMENT SLOPE
	FLANGE CONNECTION		SPRINKLER
	FENCE		WASHLINE SLOPE IN FT/FT
	EXISTING CONTOURS		EXIST. PRV
	DEMOLITION (TO BE REMOVED)		EXIST. SANITARY SEWER
	CONCRETE		EXIST. WATER LINE
	EXISTING PIPE		EXIST. GAS LINE
	PROPOSED PIPE		EXIST. UNDERGROUND TELEPHONE
	TOP OF CURB/FLOW LINE		EXIST. UNDERGROUND ELECTRIC
	TOP OF WALL		EXIST. STORM SEWER
	TOP OF ASPHALT		EXIST. CABLE TELEVISION
	CONCRETE/NATURAL GROUND		CL SURVEY
	FIRE HYDRANT		EDGE OF PAVEMENT
	POWER POLE		RIGHT-OF-WAY

REQUIRED SURFACE REMOVAL AND RESTORATION

	RESIDENTIAL PAVEMENT SECTION
	ARTERIAL PAVEMENT SECTION
	CONCRETE CURB & GUTTER
	CONCRETE SIDEWALK
	CONCRETE PAVEMENT
	MEDIAN

NOTES

- LOCATION AND DIAMETER OF BURIED PIPING AND UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED BY CONTRACTOR.
- CONTRACTOR SHALL IMMEDIATELY REPLACE ALL DAMAGED IRRIGATION SYSTEM PARTS CAUSED BY CONSTRUCTION.
- REPLACE ALL DAMAGED LANDSCAPING TO MATCH APPEARANCE PRIOR TO CONSTRUCTION. RESTORE AND SEED ALL NATURAL GROUND AREAS DISTURBED DURING CONSTRUCTION.
- CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR INTO PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY TEMPORARY BERMS AT PROPERTY LINES AND WETTING SOIL TO KEEP IT FROM BLOWING.
- THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED AWAY OR CREATE DUST.
- THE CONTRACTOR SHALL SECURE A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN DUST CONTROL AT ALL TIMES.
- INVERT ELEVATIONS SHALL BE AS REQUIRED.
- ALL NEW PIPING SHALL HAVE A MINIMUM OF 3'-0" OF COVER.
- CONTRACTOR'S ONSITE STORAGE LOCATION SHALL BE APPROVED BY OWNER. ONSITE STORAGE SHALL BE MAINTAINED NEAT AND ORDERLY.
- CONTRACTOR SHALL VERIFY DEPTH, MATERIAL AND DIAMETER OF EXISTING PIPE.
- CONTRACTOR SHALL PROVIDE FOR SITE SECURITY AT ALL SITES WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY REMOVED A PORTION OF THE EXISTING SITE FENCE. COSTS FOR SITE SECURITY SHALL BE INCIDENTAL TO THE TOTAL BASE BID STATED IN THE BID PROPOSAL.
- ALL STREET STRIPPING ALTERED OR DESTROYED SHALL BE REPLACED BY CONTRACTOR TO SAME LOCATION AND IN KIND AS EXISTING.
- CONTRACTOR SHALL REPLACE AND/OR RESTORE ALL PAVEMENT, CURBS, SIDEWALK, ROCK SURFACING, LANDSCAPING AND OTHER SITE FIXTURES DAMAGED DIRECTLY OR INDIRECTLY BY CONTRACTOR TO SAME LOCATION AND IN KIND AS EXISTING.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH "CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION".
- 48 HOURS PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL CONTACT THE LINE LOCATING SERVICE, 260-1990 FOR EXISTING UTILITIES (NEW MEXICO ONE CALL SYSTEM).
- REFERENCES MADE TO STANDARD DRAWINGS REFER TO CITY OF ALBUQUERQUE STANDARD DETAIL DRAWINGS, UNLESS OTHERWISE NOTED.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR OWNER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE. (EITHER RESIDENTIAL OR ARTERIAL STREET SECTION)
- THREE WORKING DAYS PRIOR TO ANY WORK ON EXISTING PUBLIC WATER UTILITIES, THE CONTRACTOR SHALL CONTACT THE WATER UTILITY DIVISION FOR THE VALVE SHUT OFF. SEE SECTION 18 OF THE GENERAL CONDITIONS.
- ALL UTILITIES SHOWN AND ANY OTHER UTILITIES THAT ARE NOT SHOWN ON THE PLANS BUT ARE WITHIN THE CONSTRUCTION AREA SHALL BE LOCATED, IDENTIFIED AND PROTECTED AT ALL TIMES DURING CONSTRUCTION BY THE CONTRACTOR.
- TRAFFIC CONTROL REQUIRED PER SPECIFICATIONS.
- CONTRACTOR SHALL PAINT NEW AND MODIFIED PIPING TO MATCH EXISTING. CONTRACTOR SHALL REPAIR DAMAGED WALL SURFACES TO MATCH EXISTING.



SCANNED BY LASON

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

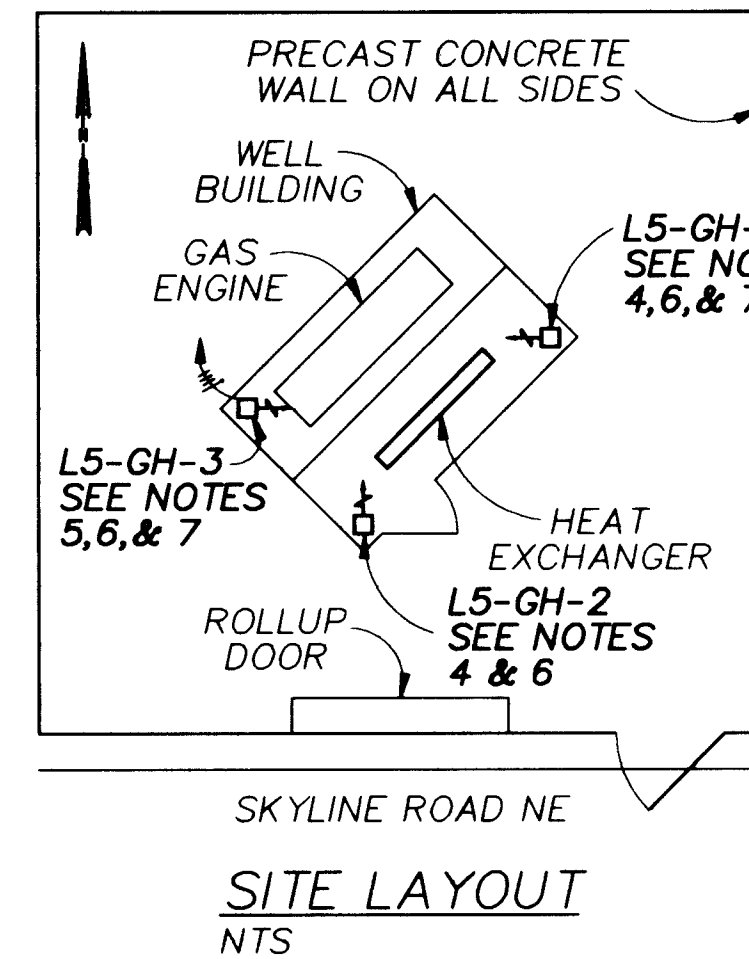
TITLE: ELECTRICAL AND MECHANICAL REHABILITATION

ABBREVIATIONS, LEGEND AND NOTES

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Waste Water		
Hydrology					

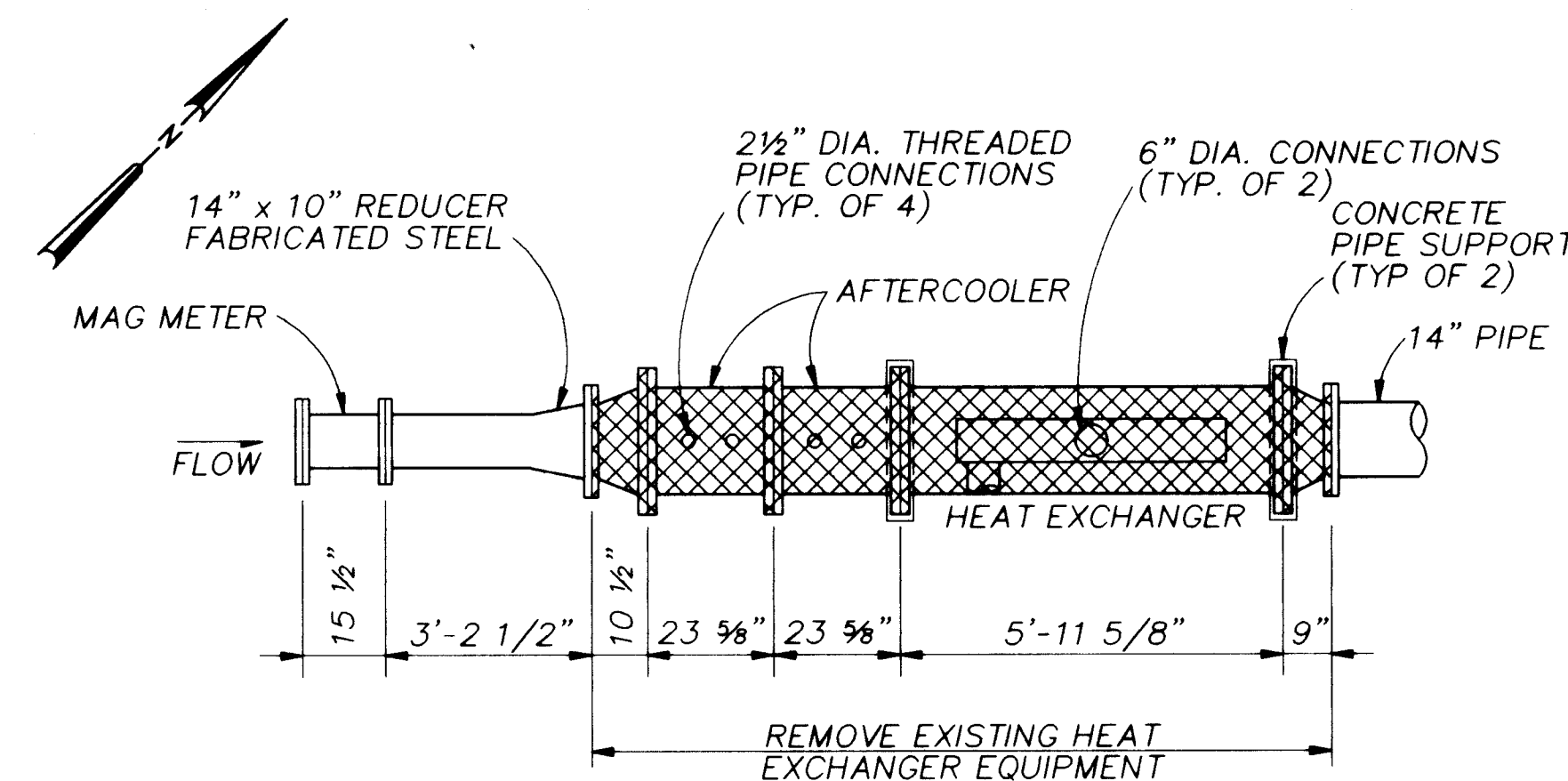
DRAWING NO. G-2 MAP NO. SHEET 2 OF 43

POWER	INSTRUMENTATION & CONTROL	ONE-LINE DIAGRAMS	ONE-LINE DIAGRAMS	ABBREVIATIONS CONT.	AS BUILT INFORMATION
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 # EQUIPMENT SEE ABBREVIATIONS M SINGLE PHASE MOTOR M THREE PHASE MOTOR ⊕ THERMOSTAT □ PUSHBUTTON ESS - EMERGENCY STOP BUTTON S/S - START/STOP UH GH UNIT HEATER GAS HEATER ECU EVAPORATIVE COOLER UNIT ⊕ GROUND ROD G GROUND CONDUCTOR EXOTHERMIC WELD FCV FLOW CONTROL VALVE 30A DISCONNECT SWITCH WH WATER HEATER	TSH TEMPERTURE SWITCH HIGH TSL TEMPERTURE SWITCH LOW FE FLOW OR NO-FLOW OR LEAK DETECTOR ELEMENT FT FLOW TRANSMITTER PSH PRESSURE SWITCH HIGH LE LEVEL ELEMENT (FLOOD DETECTOR) XT VIBRATION TRANSMITTER XE VIBRATION ELEMENT	240V XXKVA 120V TRANSFORMER 240V - PRIMARY VOLTAGE XXKVA- TRANSFORMER RATING 120V - SECONDARY VOLTAGE 30 GROUNDING WYE 30 UNGROUNDING DELTA 300:5 (2) CURRENT TRANSFORMER 300:5 - INDICATES CT RATIO (2) - INDICATES QUANTITY 480V 120V (2) 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 - KILOWATT-HOUR-DEMAND V - VOLTMETER GROUND SURGE ARRESTER 100A DOUBLE THROW DISCONNECT 100 A - AMPERAGE RATING 60A 3P SINGLE THROW DISCONNECT 60A - AMPERAGE RATING 3P - NUMBER OF POLES 600A DRAWOUT FUSE & RATING 100A 225A 3P CIRCUIT BREAKER 100A - TRIP RATING 225A - FRAME RATING (FOR ADJUSTABLE TRIP BREAKERS) 3P - NUMBER OF POLES M - MAGNETIC TRIP 1200AF 800AT LOW VOLTAGE AIR CIRCUIT BREAKER E - INDICATES ELECTRICAL SHUNT TRIP M - INDICATES MECHANICAL SHUNT TRIP 1200AF - FRAME RATING 800AT - TRIP RATING HP SINGLE PHASE MOTOR HP - RATED HORSEPOWER HP THREE PHASE MOTOR HP - RATED HORSEPOWER 60A 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 60AT 100A MCP MOTOR CIRCUIT PROTECTOR COMBINATION STARTER 100A MCP - CONTINUOUS RATING 60AT - TRIP RATING # - NEMA STARTER SIZE ## - TYPE DPA DISTRIBUTION PANELBOARD	CH GAS HEATER 15 20 PANEL BREAKER 1 & 2 INDICATE CIRCUIT NUMBER 15 & 20 INDICATE AMPERAGE POWER FACTOR CORRECTION CAPACITOR LIGHTNING ARRESTOR TRANSIENT SUPPRESSOR	LINE LE LEVEL ELEMENT (DRAW DOWN), (FLOOD DETECTOR) LFMIC LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT LM MOTORIZED LOUVER LSH LEVEL SWITCH HIGH LTI LEVEL TRANSMITTER/INDICATOR M MAGNETIC TRIP MFM MULTI-FUNCTION METER MCU MOTOR CONTROL UNIT MOV MOTOR OPERATED VALVE N NEUTRAL NC NORMALLY CLOSED NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOC NIU NOT IN USE NO NORMALLY OPEN N.T.S. NOT TO SCALE OFE OWNER FURNISHED EQUIPMENT OL'S OVERLOADS (THERMAL OVERLOAD CONTACTS) PBV PUMP BYPASS CONTROL VALVE PEC PHOTO-ELECTRIC CELL PF POWER FACTOR PFCC POWER FACTOR CORRECTION CAPACITOR 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 RTU REMOTE TERMINAL UNIT SDIV STATION DISCHARGE ISOLATION VALVE SW SWITCH SYM SYMMETRICAL TB TERMINAL BLOCK TE TEMPERTURE ELEMENT (MOTOR RTD) TSP TWISTED SHIELDED PAIR TST TWISTED SHIELDED TRIAD TSH TEMP. SWITCH HIGH (HIGH AMBIENT TEMP. SWITCH) TSL TEMP. SWITCH LOW (LOW AMBIENT TEMP. SWITCH) TYP TYPICAL UH UNIT HEATER V VOLT VAC VOLTS ALTERNATING CURRENT VDC VOLTS DIRECT CURRENT VIB/VB VIBRATION SENSOR JUNCTION BOX VLV VALVE LOCATED ITEM VM MOTORIZED VALVE WH WATER HEATER WP WEATHERPROOF WT WATERTIGHT XE VIBRATION ELEMENT XFMR TRANSFORMER XMTR TRANSMITTER WYE ZTCV ZONE TRANSFER CONTROL VALVE ZTIV ZONE TRANSFER ISOLATION VALVE Δ DELTA ∅ PHASE FCV SOLENOID VALVE (FLOW CONTROL VALVE) NIC NOT IN CONTRACT PXXX POWER CONDUCTORS CXXX CONTROL CONDUCTORS LXXX LIGHTING & RECEPTACLE CONDUCTORS	CONTRACTOR DATE INSPECTOR DATE FIELD DATE VERIFICATION BY DATE CORRECTION BY DATE MICRO-FILM INFORMATION NO.
TERMINALS	SCHEMATICS	ONE-LINE DIAGRAMS	CIRCUITING	ABBREVIATIONS	ENGINEER'S SEAL
○ MCU, MCC, DP'S	FUSE SELECTOR SWITCH A B C INDICATES SWITCH POSITION X INDICATES CLOSED CONTACT O INDICATES OPEN CONTACT NORMALLY OPEN PUSHBUTTON NORMALLY CLOSED PUSHBUTTON 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 MOTOR SHIELD CONDUIT IDENTIFIER CXXX - CONTROL CONDUIT PXXX - POWER CONDUIT PC - POWER/CONTROL CONDUIT LXXX - LIGHTING & RECEPTACLE CONDUIT CIRCUIT BREAKER THERMAL OVERLOAD SWITCH	SWITCHBOARD METER, # INDICATES A - AMMETER ET - ELAPSED TIME KW - KILOWATT KWH - KILOWATT-HOUR KWH - KILOWATT-HOUR-DEMAND V - VOLTMETER GROUND SURGE ARRESTER 100A DOUBLE THROW DISCONNECT 100 A - AMPERAGE RATING 60A 3P SINGLE THROW DISCONNECT 60A - AMPERAGE RATING 3P - NUMBER OF POLES 600A DRAWOUT FUSE & RATING 100A 225A 3P CIRCUIT BREAKER 100A - TRIP RATING 225A - FRAME RATING (FOR ADJUSTABLE TRIP BREAKERS) 3P - NUMBER OF POLES M - MAGNETIC TRIP 1200AF 800AT LOW VOLTAGE AIR CIRCUIT BREAKER E - INDICATES ELECTRICAL SHUNT TRIP M - INDICATES MECHANICAL SHUNT TRIP 1200AF - FRAME RATING 800AT - TRIP RATING HP SINGLE PHASE MOTOR HP - RATED HORSEPOWER HP THREE PHASE MOTOR HP - RATED HORSEPOWER 60A 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 60AT 100A MCP MOTOR CIRCUIT PROTECTOR COMBINATION STARTER 100A MCP - CONTINUOUS RATING 60AT - TRIP RATING # - NEMA STARTER SIZE ## - TYPE DPA DISTRIBUTION PANELBOARD	PHASE CONDUCTOR NEUTRAL CONDUCTOR SWITCHED CONDUCTOR GROUNDING CONDUCTOR HOMERUN INDICATION CONTROL CONDUCTOR 4 - INDICATES # OF COND. SHIELDED PAIR 4 - INDICATES # OF PAIRS MANUFACTURER SUPPLIED SURFACE MOUNTED CONDUIT BURIED OR EMBEDDED CONDUIT GROUND WIRE	A AMPERES AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE CTL. PNL. CONTROL PANEL CM COMPRESSOR MOTOR CT CURRENT TRANSFORMER DP# DISTRIBUTION PANEL & IDENTIFYING LETTER DV DISCHARGE VALVE ECU EVAPORATIVE COOLER UNIT EMT ELECTRICAL METALLIC TUBING FE FLOW ELEMENT FTI FLOW TRANSMITTER/INDICATOR FVR FULL VOLTAGE REVERSING FVNR FULL VOLTAGE NON-REVERSING GUH GAS UNIT HEATER GFIR GROUND FAULT INTERRUPTING RECEPTACLE GND GROUND HID HIGH INTENSITY DISCHARGE HVAC HEATING, VENTILATION, AIR CONDITIONING IC INSTRUMENT CABINET J JUNCTION BOX JB JUNCTION BOX KSV REFERS TO MFG. NUMBER KV KILO VOLT KVA KILO VOLT-AMPERE KW KILOWATT KWH KILOWATT-HOUR KVAR KILO VOLT AMPERE REACTIVE	THESE DRAWINGS WERE MODIFIED USING AUTOCAD AND RE-PLOTTED FOR RECORD PURPOSES AND THEREFORE DO NOT HAVE THE ENGINEER'S STAMP OR OTHER SIGNATURES THAT APPEAR ON THE ORIGINAL CONTRACT DRAWINGS.
LIGHTING	SCHEMATICS	ONE-LINE DIAGRAMS	ABBREVIATIONS	RECORD DRAWINGS	REVISIONS
1 ○ FLUORESCENT CEILING FIXTURE TYP. { 1 FIXTURE TYPE PER SPECIFICATION SCHEDULE ① WALL FIXTURE # DESIGNATES TYPE, LETTER DESIGNATES SWITCH PEC PHOTOELECTRIC CELL \$ # SWITCH, # INDICATES: 3 - THREE WAY 4 - FOUR WAY o - SWITCH DESIGNATION K - KEY OPERATED WP - WEATHERPROOF DP - DOUBLE POLE	CONDUIT IDENTIFIER CXXX - CONTROL CONDUIT PXXX - POWER CONDUIT PC - POWER/CONTROL CONDUIT LXXX - LIGHTING & RECEPTACLE CONDUIT CIRCUIT BREAKER THERMAL OVERLOAD SWITCH	SWITCHBOARD METER, # INDICATES A - AMMETER ET - ELAPSED TIME KW - KILOWATT KWH - KILOWATT-HOUR KWH - KILOWATT-HOUR-DEMAND V - VOLTMETER GROUND SURGE ARRESTER 100A DOUBLE THROW DISCONNECT 100 A - AMPERAGE RATING 60A 3P SINGLE THROW DISCONNECT 60A - AMPERAGE RATING 3P - NUMBER OF POLES 600A DRAWOUT FUSE & RATING 100A 225A 3P CIRCUIT BREAKER 100A - TRIP RATING 225A - FRAME RATING (FOR ADJUSTABLE TRIP BREAKERS) 3P - NUMBER OF POLES M - MAGNETIC TRIP 1200AF 800AT LOW VOLTAGE AIR CIRCUIT BREAKER E - INDICATES ELECTRICAL SHUNT TRIP M - INDICATES MECHANICAL SHUNT TRIP 1200AF - FRAME RATING 800AT - TRIP RATING HP SINGLE PHASE MOTOR HP - RATED HORSEPOWER HP THREE PHASE MOTOR HP - RATED HORSEPOWER 60A 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 60AT 100A MCP MOTOR CIRCUIT PROTECTOR COMBINATION STARTER 100A MCP - CONTINUOUS RATING 60AT - TRIP RATING # - NEMA STARTER SIZE ## - TYPE DPA DISTRIBUTION PANELBOARD	A AMPERES AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE CTL. PNL. CONTROL PANEL CM COMPRESSOR MOTOR CT CURRENT TRANSFORMER DP# DISTRIBUTION PANEL & IDENTIFYING LETTER DV DISCHARGE VALVE ECU EVAPORATIVE COOLER UNIT EMT ELECTRICAL METALLIC TUBING FE FLOW ELEMENT FTI FLOW TRANSMITTER/INDICATOR FVR FULL VOLTAGE REVERSING FVNR FULL VOLTAGE NON-REVERSING GUH GAS UNIT HEATER GFIR GROUND FAULT INTERRUPTING RECEPTACLE GND GROUND HID HIGH INTENSITY DISCHARGE HVAC HEATING, VENTILATION, AIR CONDITIONING IC INSTRUMENT CABINET J JUNCTION BOX JB JUNCTION BOX KSV REFERS TO MFG. NUMBER KV KILO VOLT KVA KILO VOLT-AMPERE KW KILOWATT KWH KILOWATT-HOUR KVAR KILO VOLT AMPERE REACTIVE	APPROVAL OF RECORD DRAWINGS PROJECT ENGINEER DATE 7/21/94 RECORD DRAWINGS Revisions Drawn by R. GONZALES DATE 7/21/94 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS. VERIFIED BY DATE 5-93 DESIGNED BY APC DRAWN BY RLA CHECKED BY SES	NO. DATE REVISIONS DESIGN
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION TITLE: FY93/94 REHABILITATION ELECTRICAL LEGEND APPROVALS ENGINEER DATE APPROVALS ENGINEER DATE D.R.C. Chair Water Trans. Dev. Wastewater Hydrology DRAWING NO. G-3 MAP NO. SHEET 3 OF 43					26 4366 940394
NOTE: SOME SYMBOLS SHOWN BUT NOT USED.					

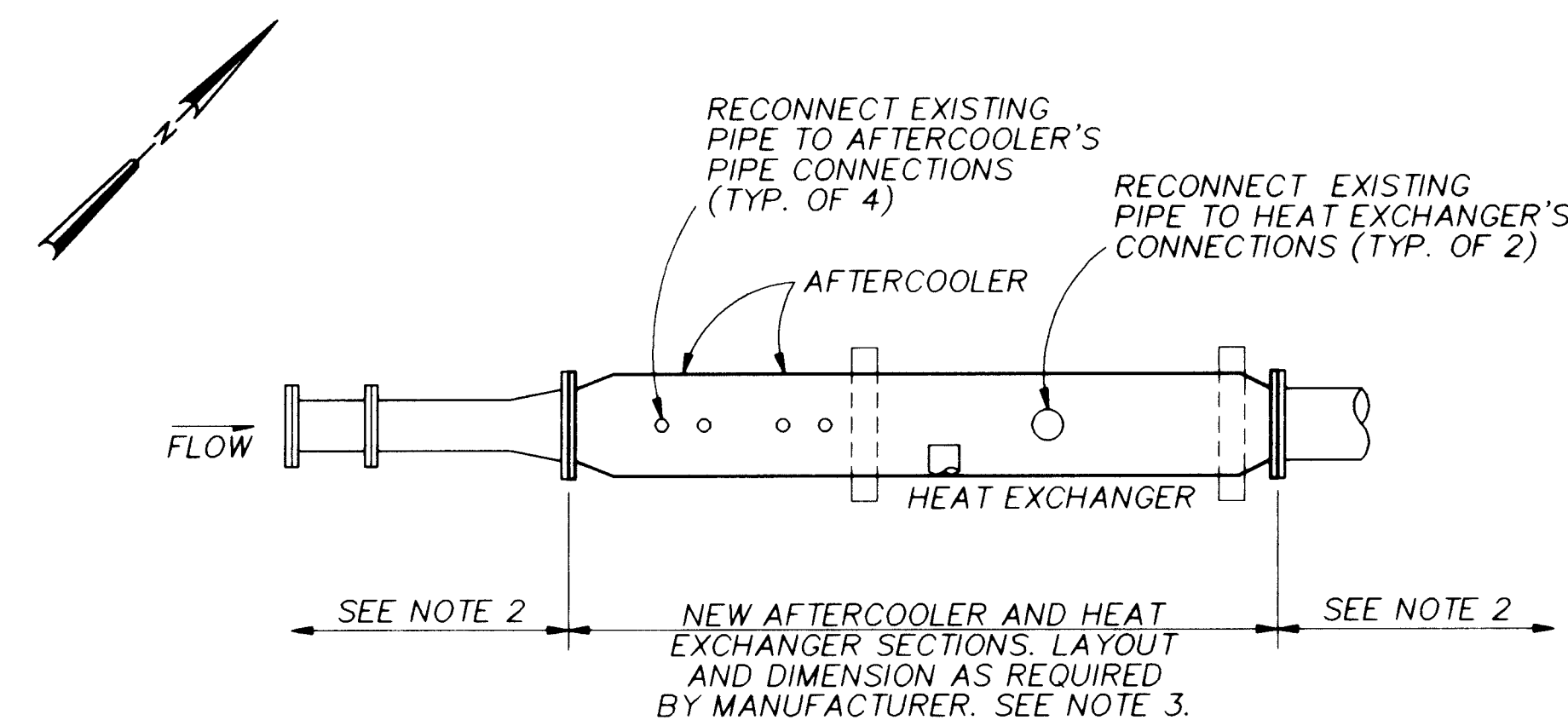


- NOTES**
1. SEE GENERAL NOTES ON DRAWING W-M-5.
 2. EXISTING PIPING AND EQUIPMENT TO REMAIN.
 3. OVERALL LENGTH AVAILABLE FOR EQUIPMENT INSTALLATION IS SHOWN. EQUIPMENT MANUFACTURER'S SHOP DRAWINGS SHALL SHOW DETAILS OF INSTALLATION.
 4. REPLACE EXST ELECTRIC HEATER W/GAS HEATER.
 5. INSTALL NEW GAS HEATER.
 6. REMOVE THE EXISTING THERMOSTAT. REMOVE THE ASSOCIATED POWER CONDUCTORS BACK TO THE SOURCE. THERMOSTAT CONDUCTORS MAY BE RE-USED. CONNECT THERMOSTAT TO GAS HEATERS IN 120V PANEL. PROVIDE 20 AMP BREAKER IF SPARE NOT AVAILABLE.
 7. CONNECT NEW 3/4" BLACK STEEL GAS LINE AT GAS CONNECTION TO GAS ENGINE AND ROUTE TO EACH UNIT HEATER. ATTACH PIPING TO WALL USING UNISTRUT SUPPORTS. SEE DETAILS AND (4) SIM, FOR INSTALLATION REQ'TS.

LOMAS WELL NO. 5
ADDENDUM NO. 2
DRAWING W-M-2, SHT. 5

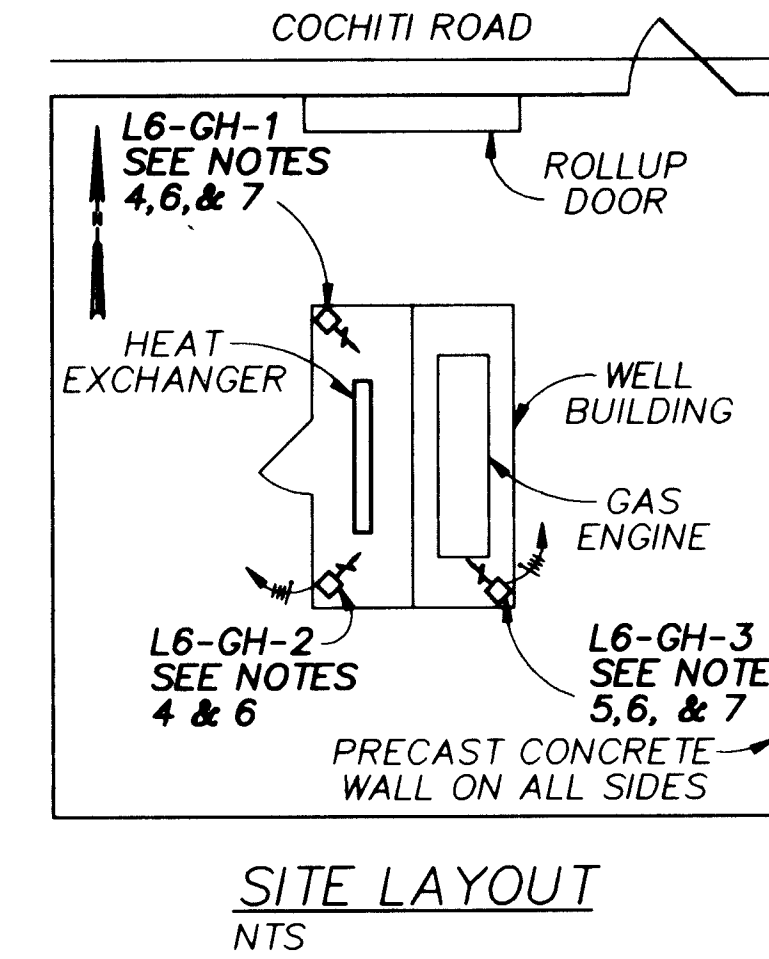


EXISTING WITH NEEDED DEMOLITION



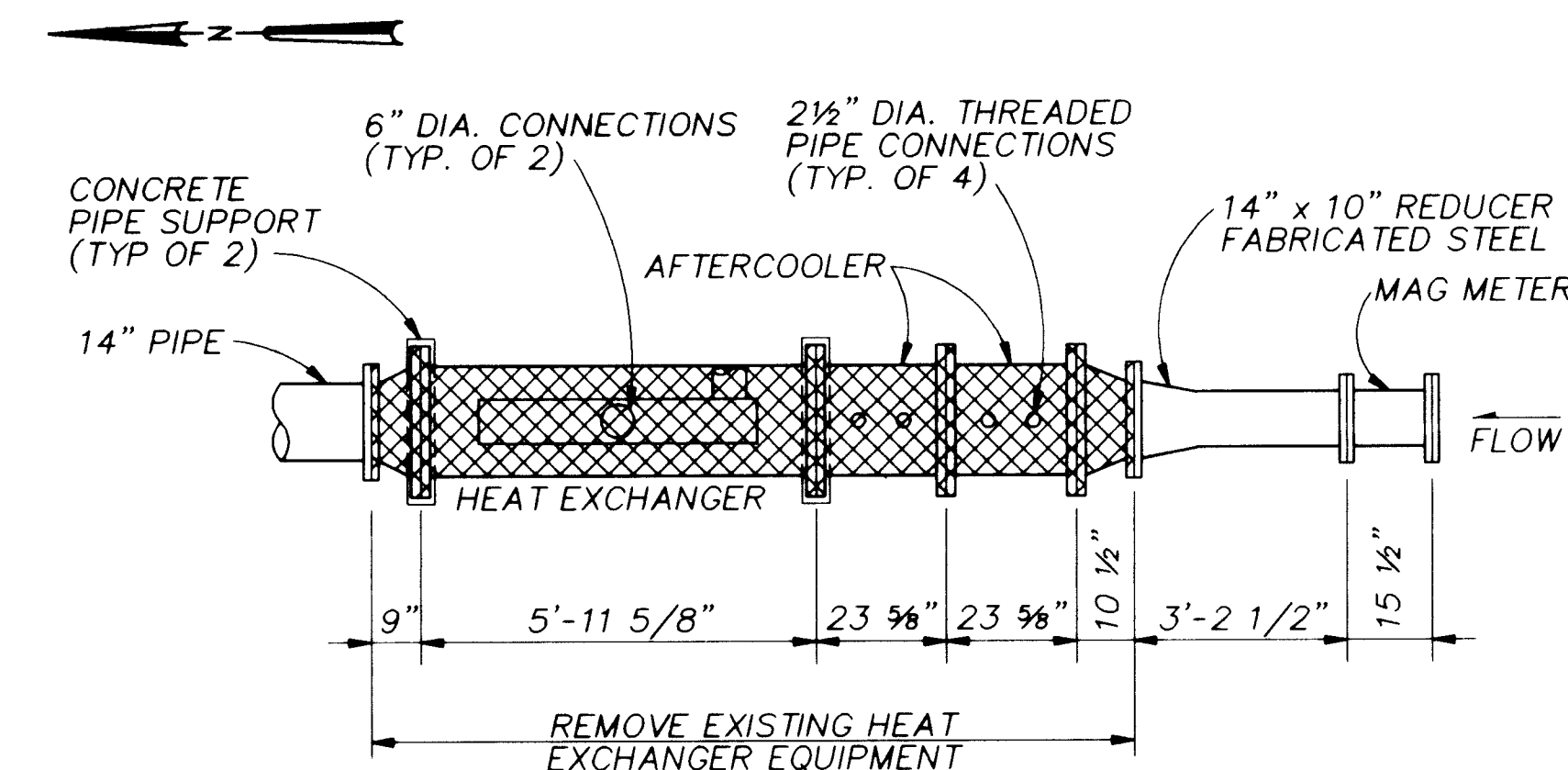
MODIFIED WITH NEW EQUIPMENT

LOMAS NO.5 WELL - PLAN
3/8" = 1'-0"

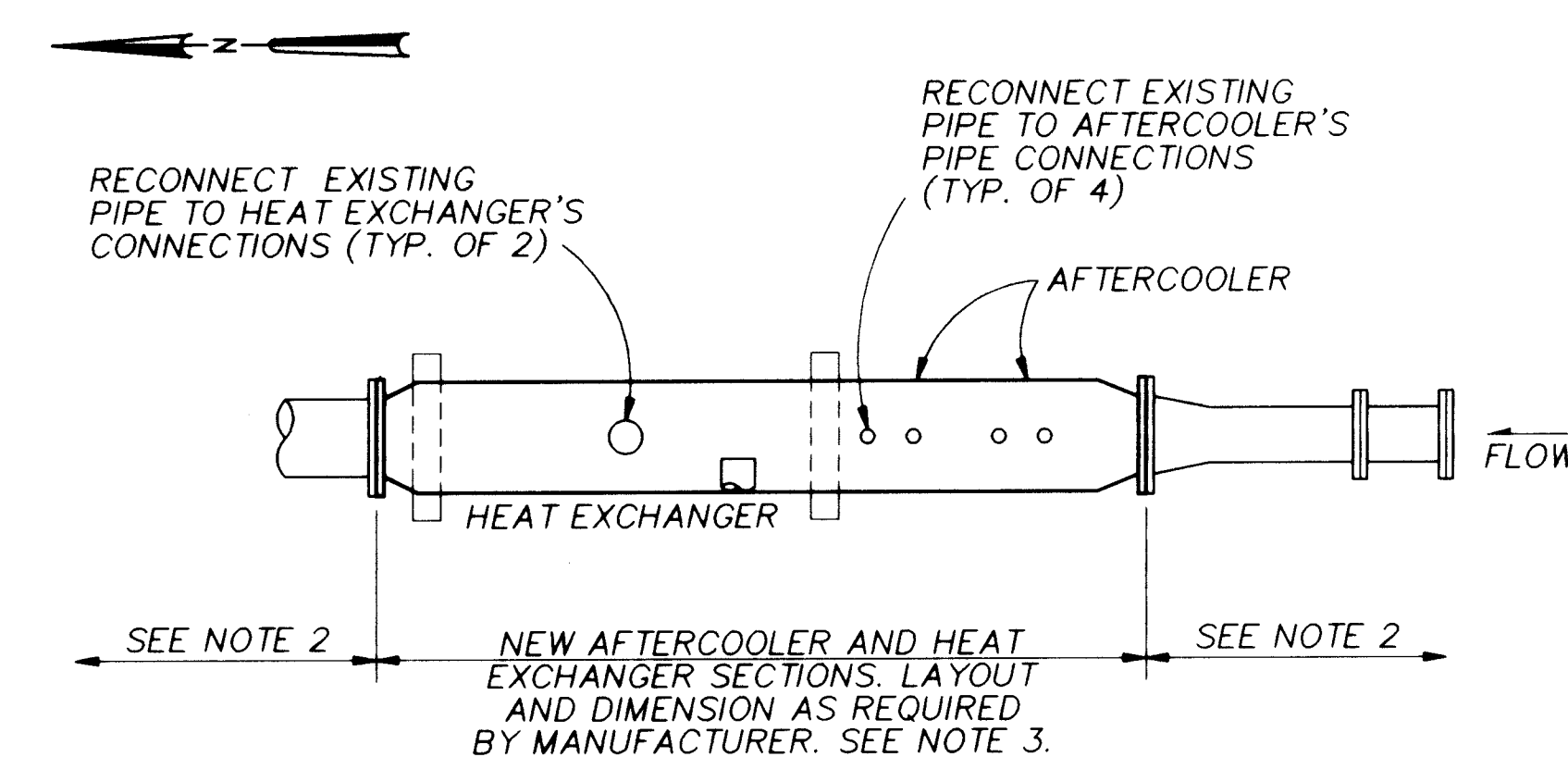


- NOTES**
1. SEE GENERAL NOTES ON DRAWING W-M-5.
 2. EXISTING PIPING AND EQUIPMENT TO REMAIN.
 3. OVERALL LENGTH AVAILABLE FOR EQUIPMENT INSTALLATION IS SHOWN. EQUIPMENT MANUFACTURER'S SHOP DRAWINGS SHALL SHOW DETAILS OF INSTALLATION.
 4. REPLACE EXST ELECTRIC HEATER W/GAS HEATER.
 5. INSTALL NEW GAS HEATER.
 6. REMOVE THE EXISTING THERMOSTAT. REMOVE THE ASSOCIATED POWER CONDUCTORS BACK TO THE SOURCE. THERMOSTAT CONDUCTORS MAY BE RE-USED. CONNECT THERMOSTAT TO GAS HEATERS IN 120V PANEL. PROVIDE 20 AMP BREAKER IF SPARE NOT AVILABLE.
 7. CONNECT NEW 3/4" BLACK STEEL GAS LINE AT GAS CONNECTION TO GAS ENGINE AND ROUTE TO EACH UNIT HEATER. ATTACH PIPING TO WALL USING UNISTRUT SUPPORTS. SEE DETAILS AND (4) SIM, FOR INSTALLATION REQ'TS.

LOMAS WELL NO. 6
ADDENDUM NO. 2
DRAWING W-M-2, SHT. 5



EXISTING WITH NEEDED DEMOLITION



MODIFIED WITH NEW EQUIPMENT

LOMAS NO.6 WELL - PLAN
3/8" = 1'-0"

APPROVAL OF RECORD DRAWINGS
PROJECT ENGINEER
DATE 7/21/94

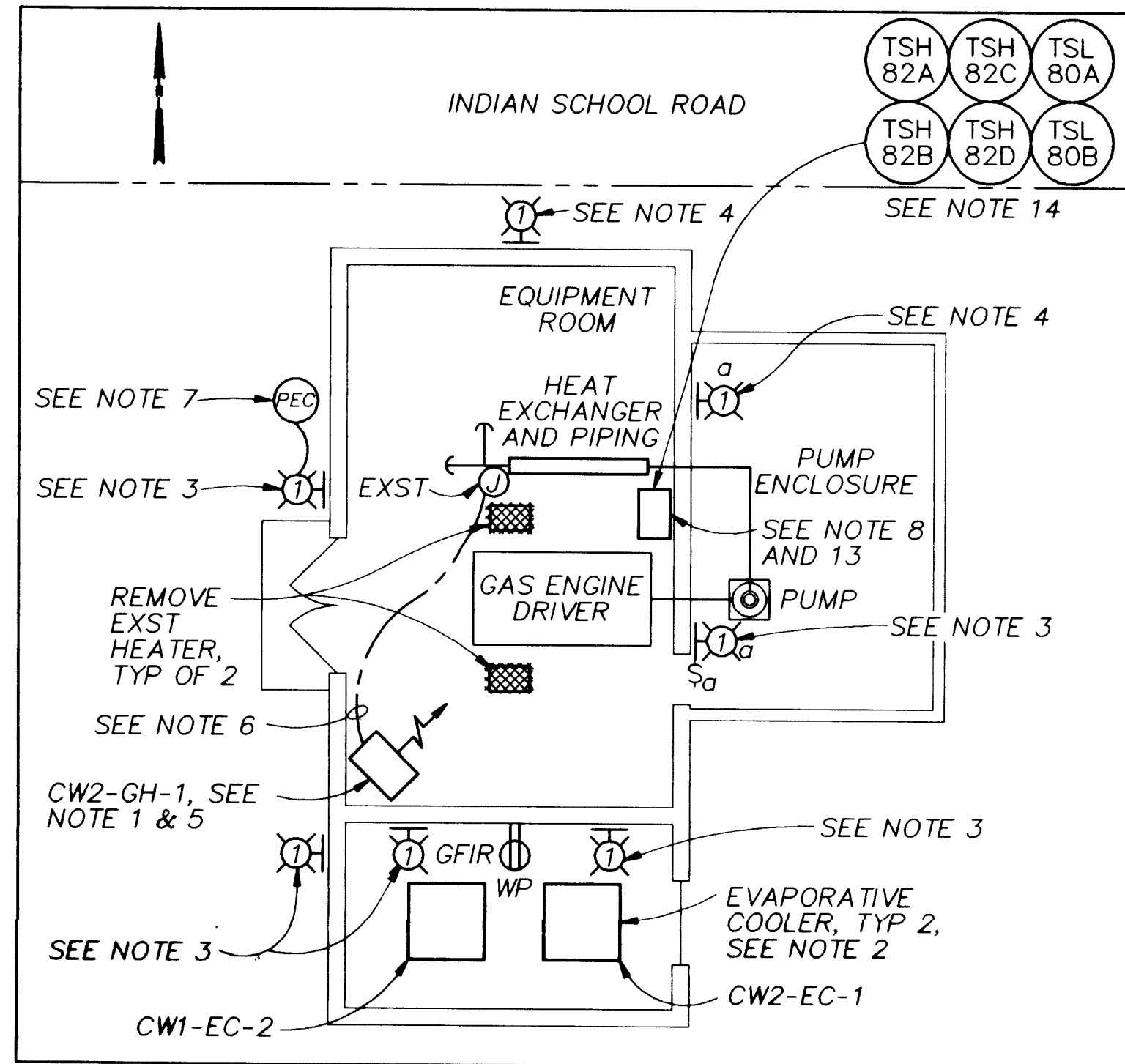
RECORD DRAWINGS
R. GONZALES
DATE 7/21/94
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPLIED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

CH2M HILL

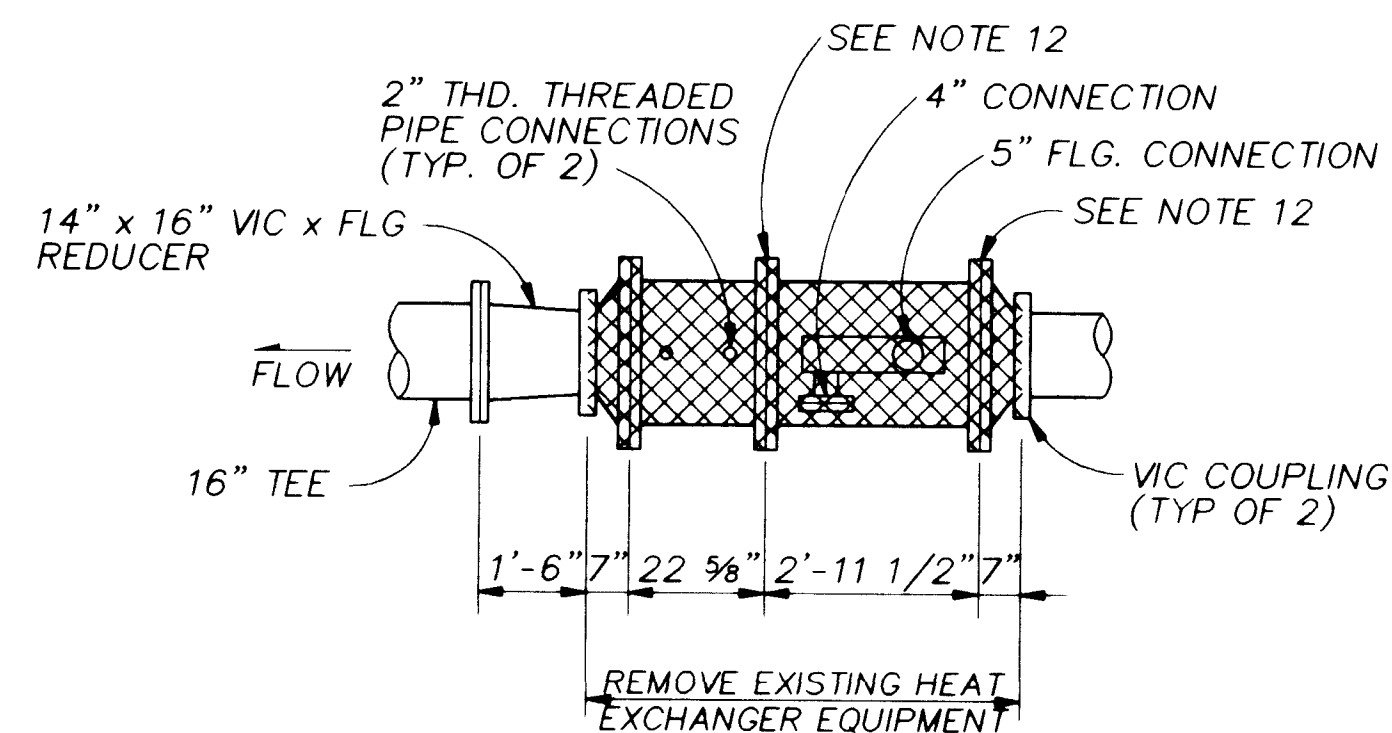
SCANNED BY
BY LASON

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

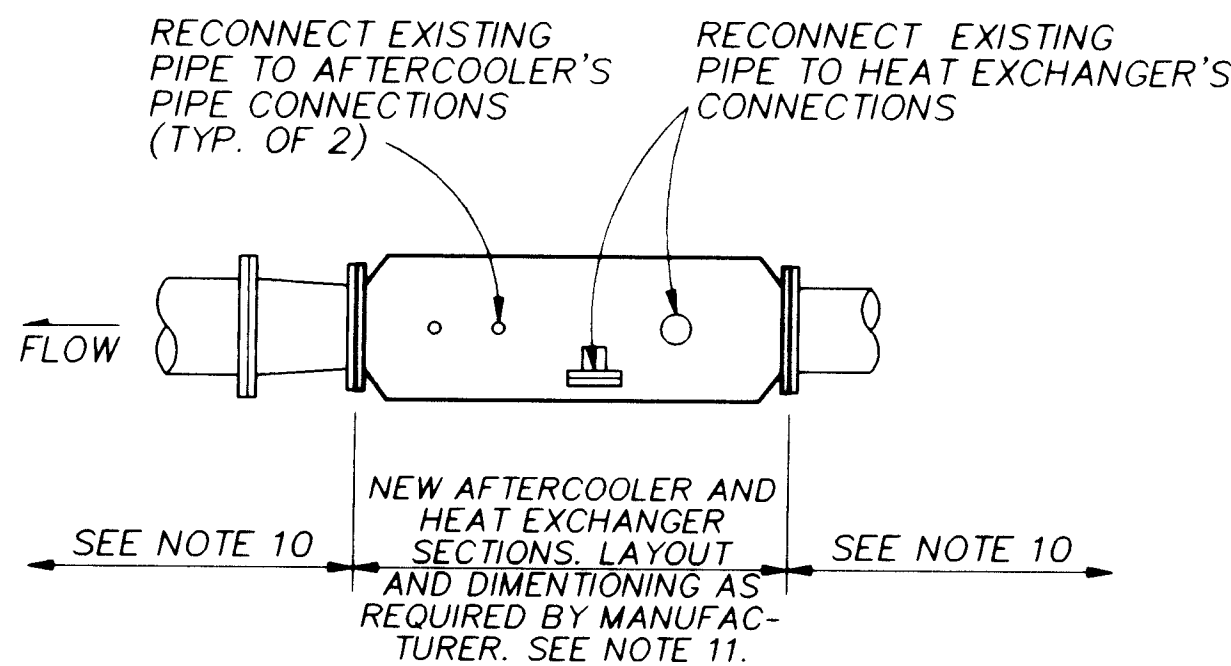
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: ELECTRICAL AND MECHANICAL REHABILITATION LOMAS WELL NO. 5 AND LOMAS WELL NO. 6 MECHANICAL/ELECTRICAL PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Waste Water		
Hydrology					
DRAWING NO.	W-M-2	MAP NO. L-21	SHEET 5	OF 43	



SITE LAYOUT
NTS



EXISTING WITH NEEDED DEMOLITION



MODIFIED WITH NEW EQUIPMENT

CHARLES WELLS WELL NO.2 PLAN

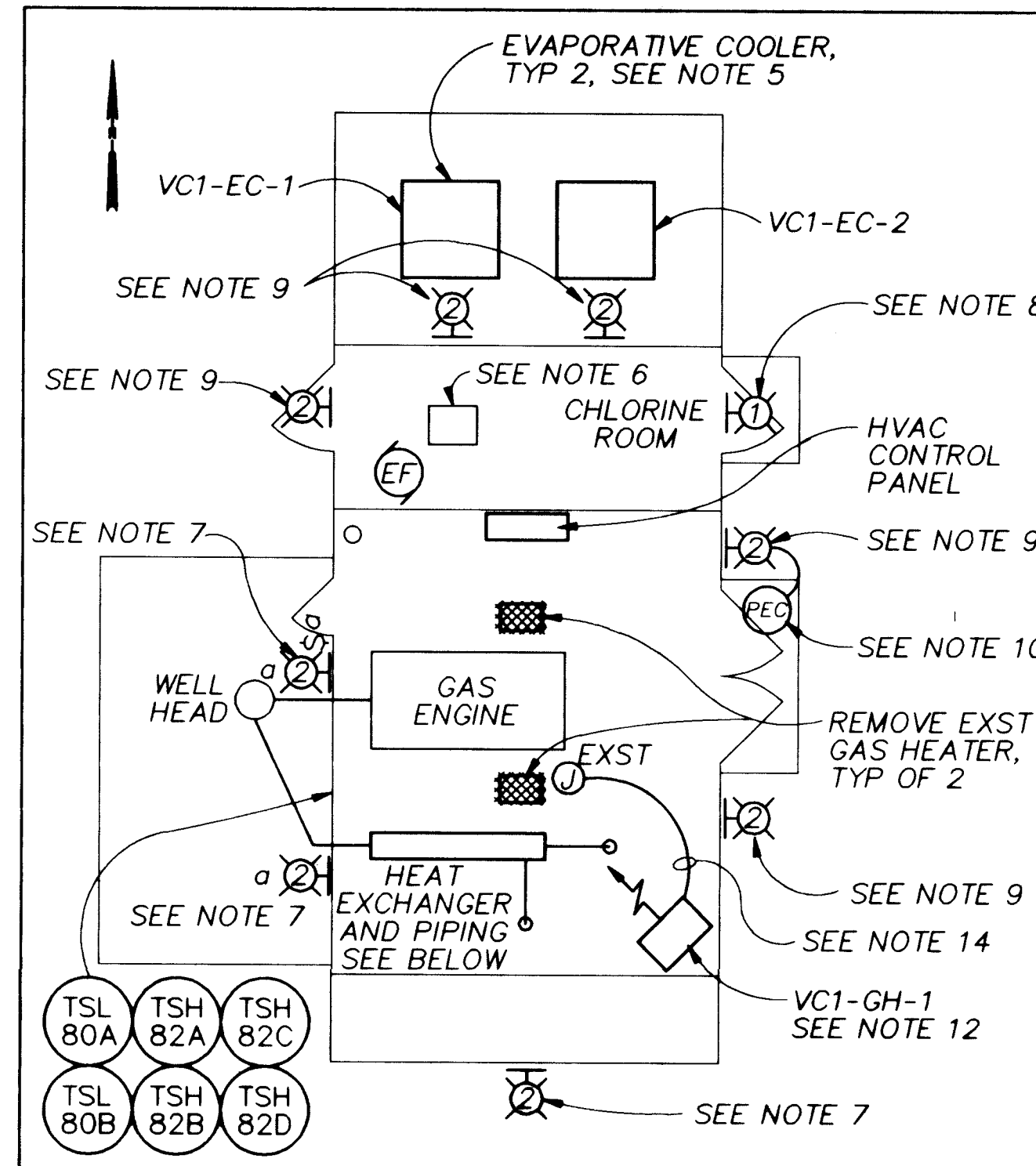
3/8" = 1'-0"

NOTES

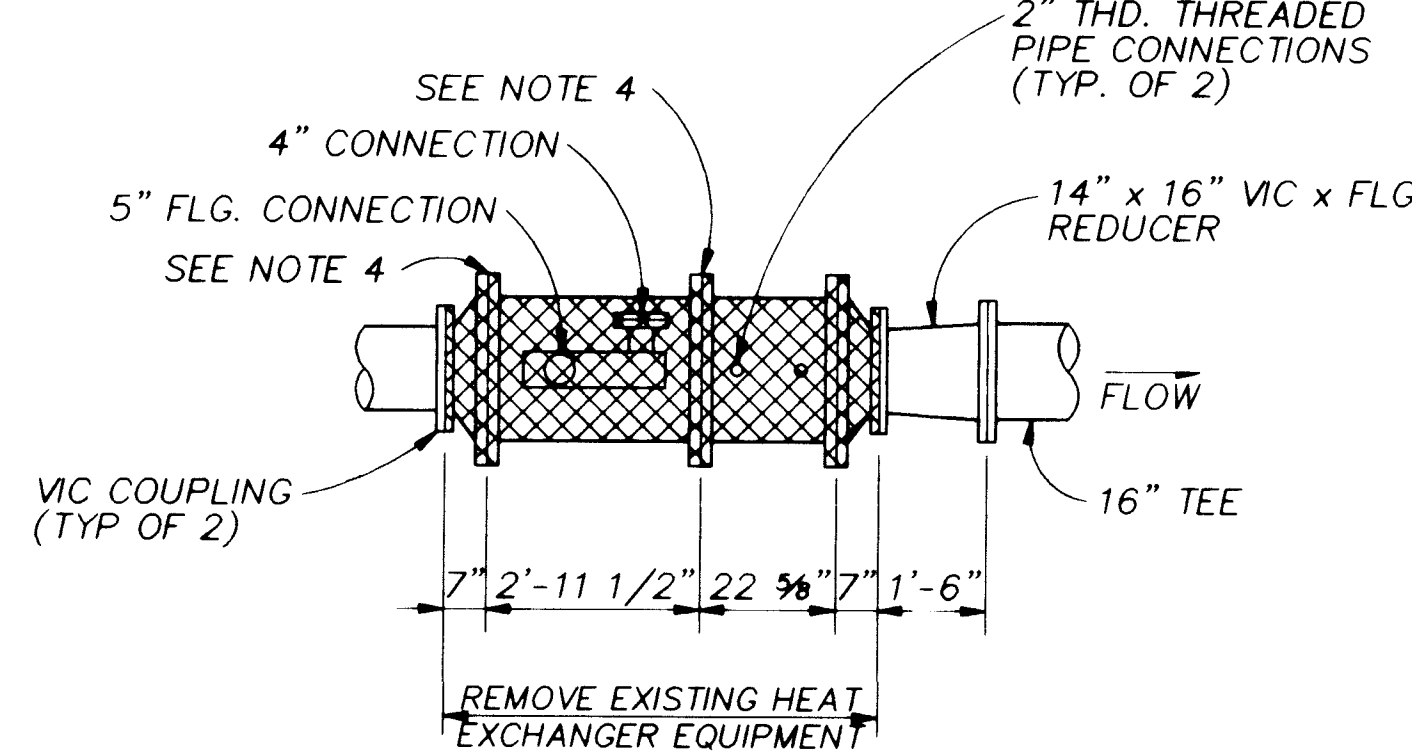
1. REPLACE GAS HEATER WITH NEW GAS HEATER. SEE HEATER SCHEDULE IN THE SPECIFICATIONS. MOUNT HEATER PER DETAIL 3 AND 4. ROUTE NEW 3/4" W-M-5.
2. REPLACE EVAPORATIVE COOLER(S). SEE EVAPORATIVE COOLER SCHEDULE IN THE SPECIFICATIONS.
3. REPLACE EXISTING LUMINAIRE, TYP 5. SEE SCHEDULE THIS SHEET.
4. INSTALL ADDITIONAL LUMINAIRES AT INDICATED LOCATIONS. EXTEND EXTERIOR LUMINAIRE CIRCUIT FOR POWER.
5. REMOVE POWER CONDUIT AND CONDUCTORS BACK TO NEAREST J-BOX FROM HEATERS. PLUG ALL UNUSED OPENINGS.
6. RUN 3/4" RMC CONDUIT ALONG CEILING TO NEW HEATER LOCATION. EXTEND EXISTING HEATER FAN POWER AND CONTROL CONDUCTORS TO NEW HEATER FAN.
7. INSTALL PHOTOELECTRIC CONTROL FOR EXTERIOR LIGHTING AT ROOF LEVEL.
8. INSTALL HVAC CONTROL PANEL AT INDICATED LOCATION. INSTALL HEATING, COOLING, AND OVERRIDE THERMOSTATS ADJACENT TO NEW CONTROL PANEL. SEE HEAT/COOLING SCHEMATIC. EXTEND CONTROL CONDUCTORS AND CONDUIT TO PANEL AS REQUIRED.
9. SEE GENERAL NOTES ON DRAWING W-M-5.
10. EXISTING PIPING AND EQUIPMENT TO REMAIN.
11. OVERALL LENGTH AVAILABLE FOR EQUIPMENT INSTALLATION IS SHOWN. EQUIPMENT MANUFACTURER'S SHOP DRAWINGS SHALL SHOW DETAILS OF INSTALLATION.
12. REMOVE EXISTING PIPE SUPPORT. INSTALL WITH NEW HEAT EXCHANGER, GRINNELL FIG. 264 TYPE SUPPORT W/1/4" THICK STEEL BASE PLATE. FASTEN BASE PLATE TO CONC. FLOOR W/FOUR 3/8" DIA. EXPANSION ANCHORS.
13. PROVIDE POWER TO CONTROL PANEL FROM SPARE 20 AMP CIRCUIT BREAKER @DPA. IF SPARE NOT AVAILABLE PROVIDE 20 AMP BREAKER.
14. MOUNT THERMOSTATS ON SURFACE OF HEAT/COOL CONTROL PANEL.

LUMINAIRE SCHEDULE

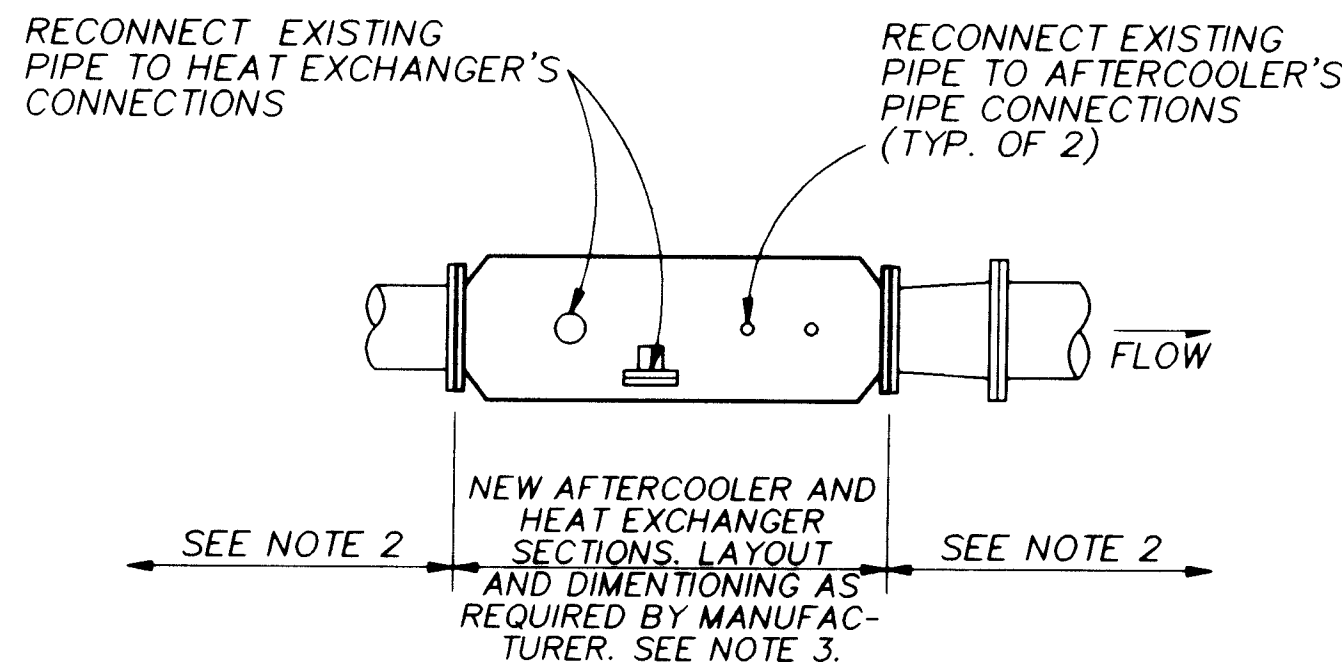
TYPE	DESCRIPTION
1	70 WATT HPS, 120 VAC VANDALPROOF EXTERIOR LUMINAIRE, KEENE OR ENGINEER APPROVED EQUIVALENT.



SITE LAYOUT
NTS



EXISTING WITH NEEDED DEMOLITION



MODIFIED WITH NEW EQUIPMENT

VOLCANO CLIFFS WELL NO.1 PLAN

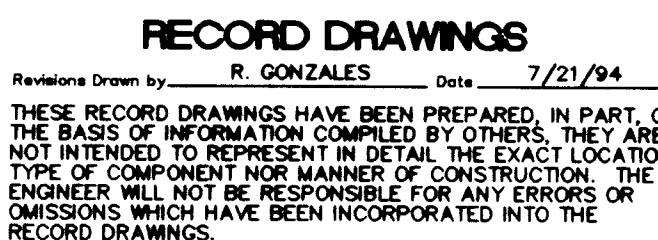
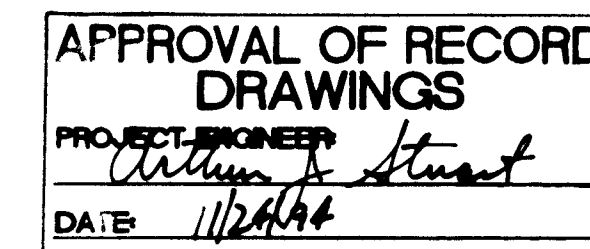
3/8" = 1'-0"

NOTES

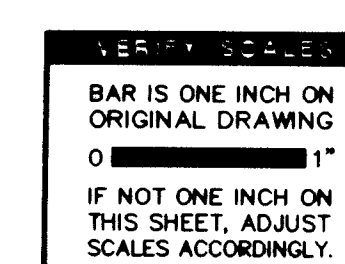
1. SEE GENERAL NOTES ON DRAWING W-M-5.
2. EXISTING PIPING AND EQUIPMENT TO REMAIN.
3. OVERALL LENGTH AVAILABLE FOR EQUIPMENT INSTALLATION IS SHOWN. EQUIPMENT MANUFACTURER'S SHOP DRAWINGS SHALL SHOW DETAILS OF INSTALLATION.
4. REMOVE EXISTING PIPE SUPPORT. INSTALL WITH NEW HEAT EXCHANGER, GRINNELL FIG. 264 TYPE SUPPORT W/1/4" THICK STEEL BASE PLATE. FASTEN BASE PLATE TO CONC. FLOOR W/FOUR 3/8" DIA. EXPANSION ANCHORS.
5. REPLACE EVAPORATIVE COOLER(S). SEE EVAPORATIVE COOLER SCHEDULE IN THE SPECIFICATIONS.
6. REPLACE EXHAUST FAN IN CHLORINE ROOM. CHLORINE ROOM EXHAUST FAN SHALL BE DIRECT DRIVE, ALUMINUM CONSTRUCTION, WITH AN ADAPTER TO CONNECT TO EXISTING ROOF CURB AND CORROSION RESISTANT INTERIOR SURFACES. THE CAPACITY OF 1,400 CFM AT 1/2" W.G. FAN SHALL BE MANUFACTURED BY GREENHECK, MODEL G120-A OR EQUAL. VERIFY EXISTING ROOF CURB FOR ACTUAL SIZE. RECONNECT NEW CHLORINE ROOM FAN TO EXISTING ELECTRICAL CONNECTIONS.
7. INSTALL ADDITIONAL LUMINAIRES AT INDICATED LOCATIONS. EXTEND EXTERIOR LIGHTING CIRCUIT FOR POWER.
8. REPLACE CHLORINE ROOM WARNING LIGHT.
9. REPLACE EXST LUMINAIRE, TYP 5. SEE SCHEDULE THIS SHEET.
10. INSTALL PHOTOELECTRIC CONTROL ON ROOF. CONNECT TO POWER FOR THE EXTERIOR LIGHTS.
12. NEW GAS HEATER. SEE DETAIL 3 AND 4 FOR VENT ROOF PENETRATION AND MOUNTING. SIMILAR. ROUTE 3/4" BLACK STEEL GAS LINE FROM EXST GAS HEATER TO NEW GAS UNIT HEATER. REMOVE POWER CONDUIT AND CONDUCTORS BACK TO THE NEAREST J-BOX FROM EXST HEATER LOCATIONS. PLUG ALL UNUSED OPENINGS.
13. MOUNT THERMOSTATS ON THE SURFACE OF THE WEST WALL.
14. RUN 3/4" RMC CONDUIT ALONG CEILING TO NEW GAS UNIT HEATER LOCATION. EXTEND HEATER FAN POWER AND CONTROL CONNECTIONS TO NEW UNIT HEATER FAN.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION
1	70 WATT HPS, 120 VAC WARNING LIGHT. UL LISTED FOR OUTDOOR USE. PROVIDE WITH RED, FRESNEL LENS OF IMPACT RESISTANT MATERIAL. FEDERAL SIGNAL OR ENGINEER APPROVED EQUIVALENT.
2	70 WATT HPS, 120 VAC VANDALPROOF EXTERIOR LUMINAIRE, KEENE OR ENGINEER APPROVED EQUIVALENT.



SCANNED BY
EXTASION



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: ELECTRICAL AND MECHANICAL REHABILITATION CHARLES WELLS WELL NO. 2 & VOLCANO CLIFFS WELL NO. 1 MECHANICAL/ELECTRICAL PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Waste Water		
Hydrology					
DRAWING NO. W-M-3		MAP NO. E-9,J-18		SHEET 6 OF 43	



1. SEE GENERAL NOTES ON DRAWING W-M-5.
2. EXISTING PIPING AND EQUIPMENT TO REMAIN.
3. OVERALL LENGTH AVAILABLE FOR EQUIPMENT INSTALLATION IS SHOWN. EQUIPMENT MANUFACTURER'S SHOP DRAWINGS SHALL SHOW DETAILS OF INSTALLATION.
4. INSTALL NEW EVAPORATIVE COOLER (D-EC-1) AND DISCONNECT. SEE EVAPORATIVE COOLER SCHEDULE IN THE SPECIFICATIONS. FOR ACTUAL LOCATION, MOUNTING AND COOLER SLAB DIMENSIONS SHALL BE AS FOLLOWS: CONCRETE SHALL BE 7'x6'x6" THICK w/ #5 @ 12" EACH WAY CENTERED IN SLAB; EXST WINDOW TO BE USED FOR OPENING APPROX. 5'W x 4'H; AND EXPANDED METAL SCREEN 5'-6" x 4'-6". FLASH OPENING TO PREVENT WATER INTRUSION. CONNECT 1/2" WATER SUPPLY TO EXST. PIPE. PROVIDE A WELDED FOUR LEGGED STAND A MINIMUM HEIGHT OF 5' AND CONSTRUCTED OF 3"x3"x1/4" ANGLE w/ CROSS BRACING. VERIFY FINAL HEIGHT PRIOR TO FABRICATION TO MATCH EXST. WINDOW OPENING. PROVIDE TRANSITION DUCTING AND MOUNTING HARDWARE.
5. INSTALL HEAT/COOL CONTROL PANEL. EVAPORATIVE COOLER STARTER WILL BE INSIDE PANEL. PROVIDE CONDUIT, CONDUCTORS, SWITCHES, LED'S, AND RELAYS PER SCHEMATIC. USE EXST SPARE OR PROVIDE NEW CIRCUIT BREAKERS IN DPA. A/C MOTOR IS FED FROM 480V PANEL.


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


1. SEE GENERAL NOTES ON DRAWING W-M-5.
2. EXISTING PIPING AND EQUIPMENT TO REMAIN.
3. OVERALL LENGTH AVAILABLE FOR EQUIPMENT INSTALLATION IS SHOWN. EQUIPMENT MANUFACTURER'S SHOP DRAWINGS SHALL SHOW DETAILS OF INSTALLATION.
4. REMOVE EXST LIGHT AND POLE. PROVIDE NEW EXTERIOR DOWNWARD CASTING LIGHT AND POLE. 150 WATT HPS, 120 VAC EXTERIOR LUMINAIRE, VANDELPROOF KEENE OR EQUIVALENT. MOUNT ON 15' POLE. USE EXST CONDUCTORS. USE SIMILAR POLE.
5. REPLACE EXST ELEC HEATERS WITH NEW GAS HEATERS (P1-GH-1&2) AND INSTALL NEW GAS HEATER (P1-GH-3) AS SHOWN. SEE SPECIFICATIONS FOR GAS HEATER SCHEDULE. CONNECT NEW 3/4" BLACK STEEL GAS LINE AT GAS CONNECTION TO GAS ENGINE AND ROUTE TO EACH UNIT HEATER. ATTACH PIPING TO WALL USING UNISTRUT SUPPORTS. SEE DETAIL  AND  SIM, FOR INSTALLATION REQUIREMENTS.
W-M-5 W-M-5
6. REPLACE LIGHT ABOVE CONTROL ROOM DOOR. 70 WATT HPS, 120 VAC EXTERIOR LUMINAIRE WITH PHOTOCELL, VANDELPROOF. INSTALL H-O-A SWITCH NEXT TO DOOR; REFERENCE SCHEMATIC. LIGHT WILL BE KEENE OR ENGINEER APPROVED EQUIVALENT.
7. CONNECT THERMOSTAT TO GAS HEATERS. WIRE HEATERS FAN TO SPARE LOCATION IN 120V PANEL. PROVIDE 20 AMP BREAKER IF SPARE NOT AVAILABLE.

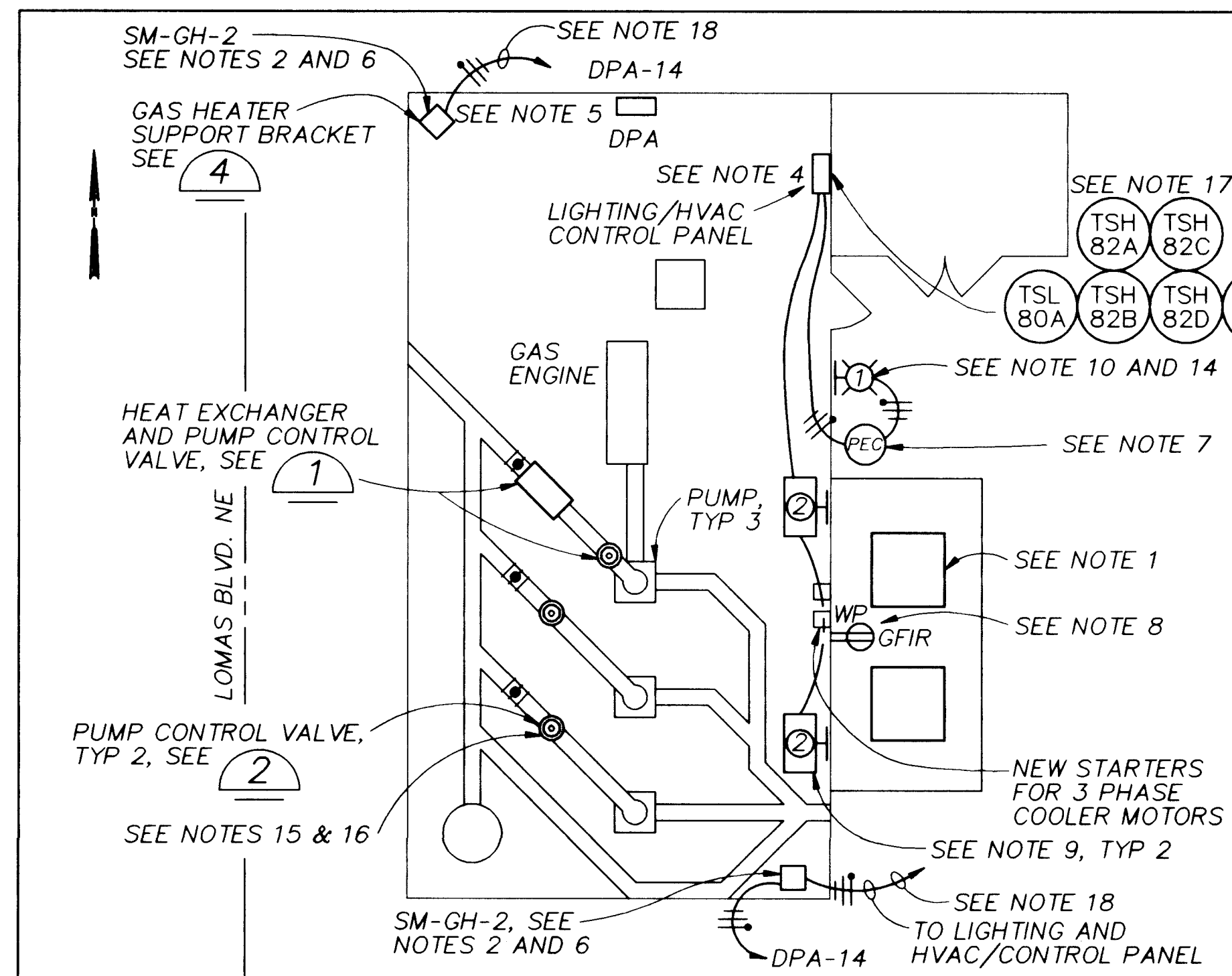

$$\frac{3}{8}'' = 1'-0''$$

Revisions Drawn by R. GONZALES Date 7/21/94

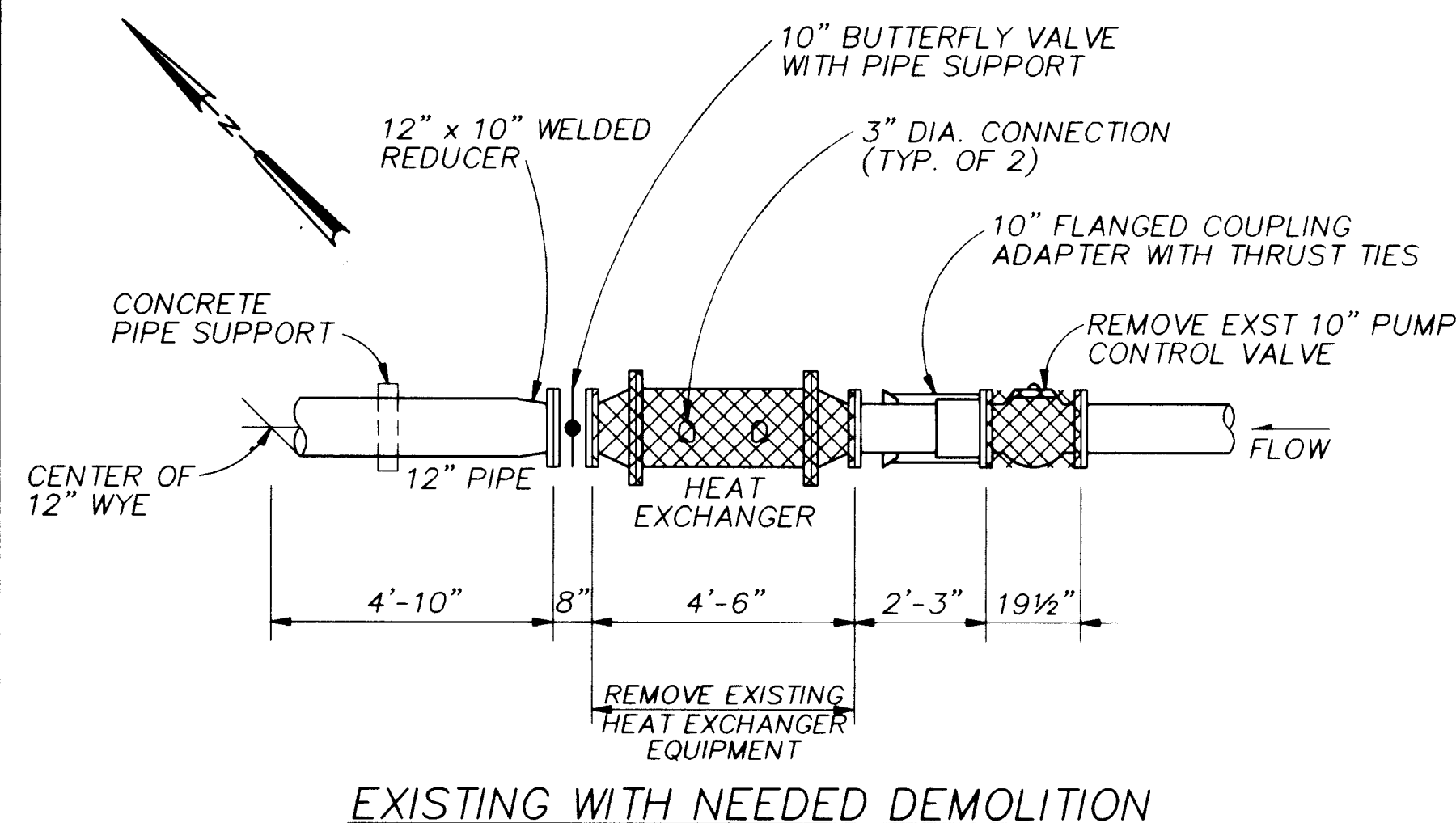
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS; THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.



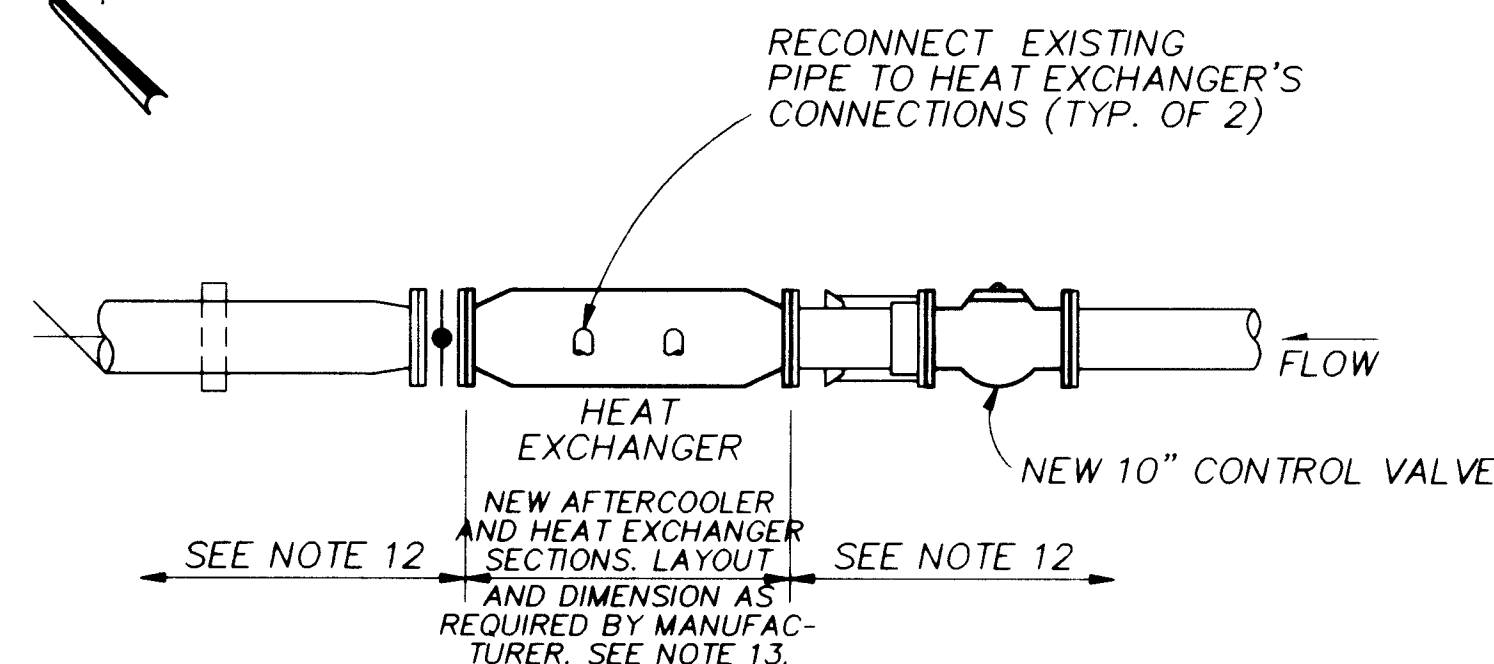
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: ELECTRICAL AND MECHANICAL REHABILITATION DURANES PUMP STATION AND PONDEROSA WELL NO. 1 MECHANICAL/ELECTRICAL PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Waste Water		
Hydrology					
DRAWING NO. W-M-4		MAP NO. E-21.H-12		SHEET 7 OF 43	



SITE LAYOUT
NTS



EXISTING WITH NEEDED DEMOLITION



MODIFIED WITH NEW EQUIPMENT

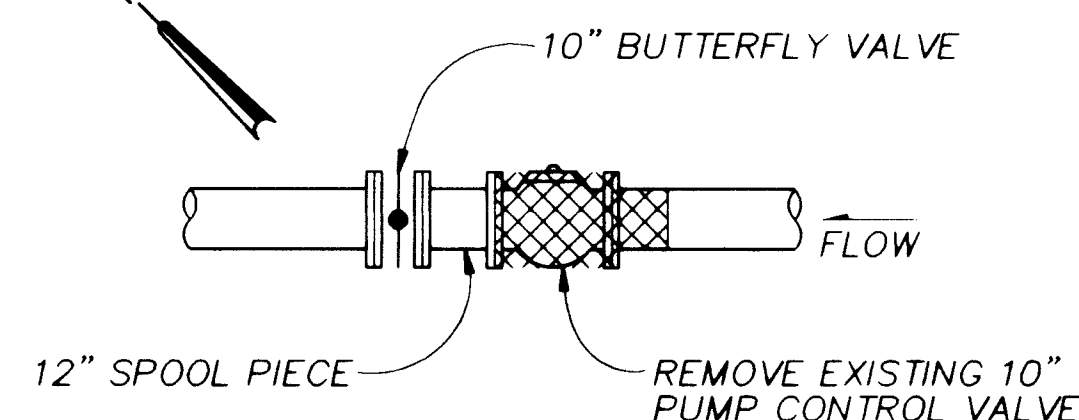
SANDIA MANOR PUMP STATION DETAIL 1

3/8" = 1'-0"

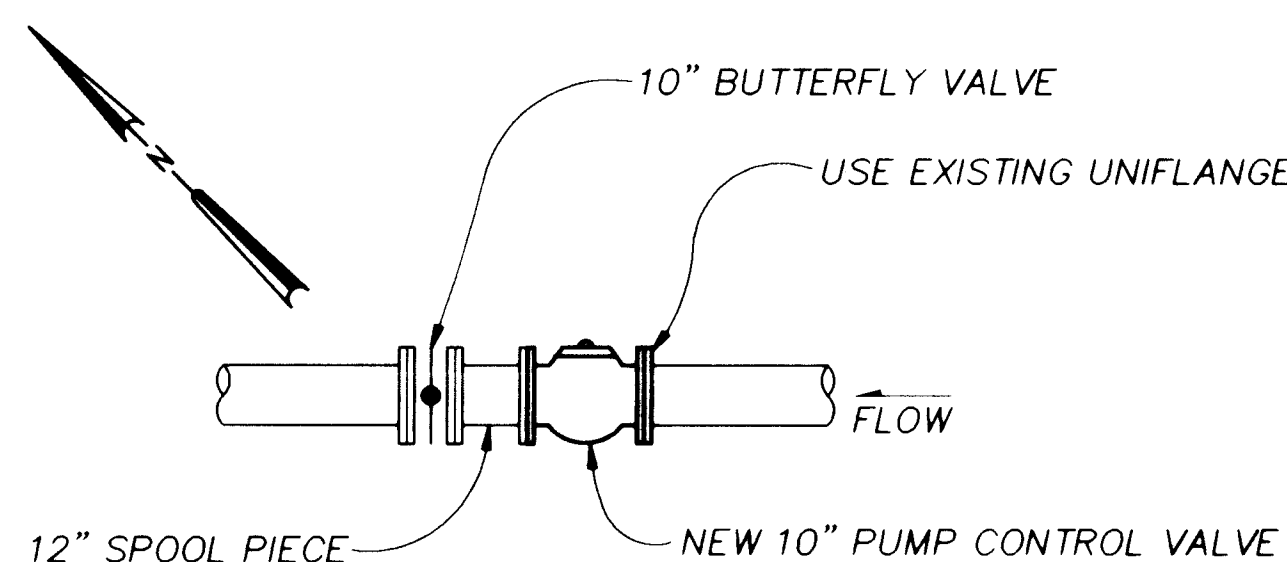
NOTES

1. REPLACE EVAPORATIVE COOLERS (SM-EC-1 & 2), TYP 2. SEE EVAPORATIVE COOLER SCHEDULE IN THE SPECIFICATIONS. REPLACE EXST TRANSITION DUCTING AND MOUNTING HARDWARE.
2. REMOVE EXST ELECTRIC HEATERS AND REPLACE WITH GAS HEATERS (SM-GUTT 1 & 2). SEE HEATER SCHEDULE IN THE SPECIFICATIONS. ROUTE 3/4" BLACK STEEL GASLINE FROM GAS CONNECTION TO GAS ENGINE TO EACH HEATER. ATTACH PIPING TO WALL USING UNISTRUT SUPPORTS. SEE DETAIL 3 FOR INSTALLATION REQUIREMENTS.
3. REMOVE EXST SINGLE GANG SWITCH BOX AND INSTALL LIGHTING/HVAC CONTROL PANEL. SEE SCHEMATIC.
4. INSTALL BLANK COVER ON SWITCH BOX FOR HIGH-BAY LIGHTS. EXTEND CONDUCTORS FOR HIGH-BAY LIGHTING TO THE LIGHTING/HVAC CONTROL PANEL. EXTEND HEATING/COOLING CONTROL CONDUCTORS TO NEW PANEL PER SCHEMATIC.
5. INSTALL 2-20A, 1-POLE CIRCUIT BREAKERS IN POSITIONS NUMBER 13 AND 14.
6. REMOVE POWER CONDUCTORS FOR ELECTRIC UNIT HEATERS BACK TO THE MCC. REMOVE 3/4" POWER CONDUIT FROM NEAREST J-BOX BACK TO THE MCC. RUN 3/4" RMC CONDUIT FROM J-BOX TO PANEL DPA. PULL 2-#12 AND 1-#12 GROUND TO EACH GAS FIRED HEATER FAN AS INDICATED. POWER BOTH FANS FROM DPA-14.
7. RUN 3/4" RMC CONDUIT UP WALL, THEN LB THROUGH WALL AT ROOF LEVEL. INSTALL PHOTOELECTRIC CONTROL FOR EXTERIOR LIGHTING.
8. INSTALL RECEPTACLE BELOW AND BETWEEN EXST DISCONNECTS. EXTEND EXST RECEPTACLE CIRCUIT FOR POWER.
9. INSTALL LUMINAIRE IN SUCTION PIT AT 6' AFF. RUN 3/4" RMC CONDUIT TO EXST J-BOX, THEN EXTEND CONDUCTORS BACK TO LIGHTING/HVAC CONTROL PANEL.
10. REPLACE EXTERIOR LUMINAIRE. RE-ROUTE POWER TO LIGHTING/HVAC CONTROL PANEL. REFERENCE HVAC/LIGHTING DETAILS AND SCHEMATIC.
11. SEE GENERAL NOTES.
12. EXST PIPING AND EQUIPMENT TO REMAIN.
13. OVERALL LENGTH AVAILABLE FOR EQUIPMENT INSTALLATION IS SHOWN. EQUIPMENT MANUFACTURER'S SHOP DRAWINGS SHALL SHOW DETAILS OF INSTALLATION.
14. PROVIDE POWER TO CONTROL PANEL FROM DPA-13.
15. CONTRACTOR TO PROVIDE 3 NEW 10" PUMP CONTROL VALVES.
16. DISCONNECT AND RE-CONNECT PUMP CONTROL VALVES, TYP 3.
17. SURFACE MOUNT THERMOSTATS TO FACE OF LIGHTING/HVAC CONTROL PANEL.
18. CONTROL OF BOTH HEATERS THROUGH ONE THERMOSTAT (TSL-80A).

LUMINAIRE SCHEDULE	
TYPE	DESCRIPTION
1	70 WATT HPS, 120 VAC VANDALPROOF EXTERIOR LUMINAIRE, KEENE OR ENGINEER APPROVED EQUIVALENT.
2	4-FOOT, 2-TUBE, 120VAC, WALL MOUNT FLUORESCENT LUMINAIRE WITH ACRYLIC REFRACTOR. METALUX OR ENGINEER APPROVED EQUIVALENT.



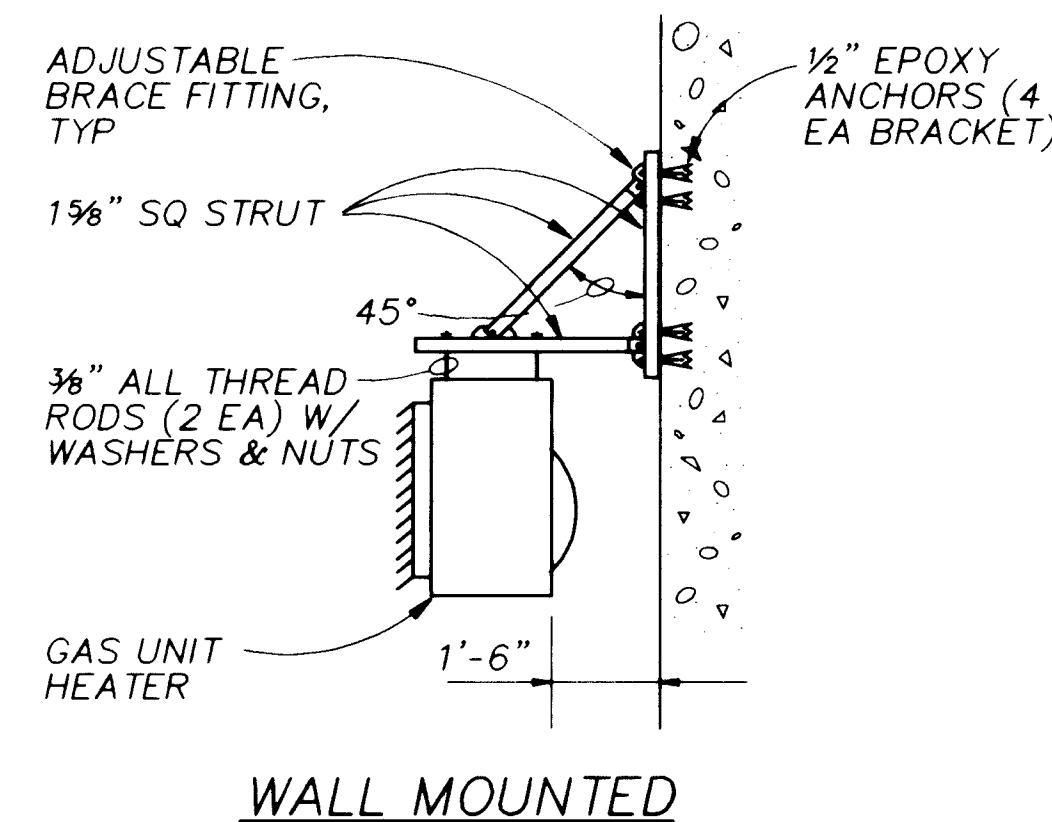
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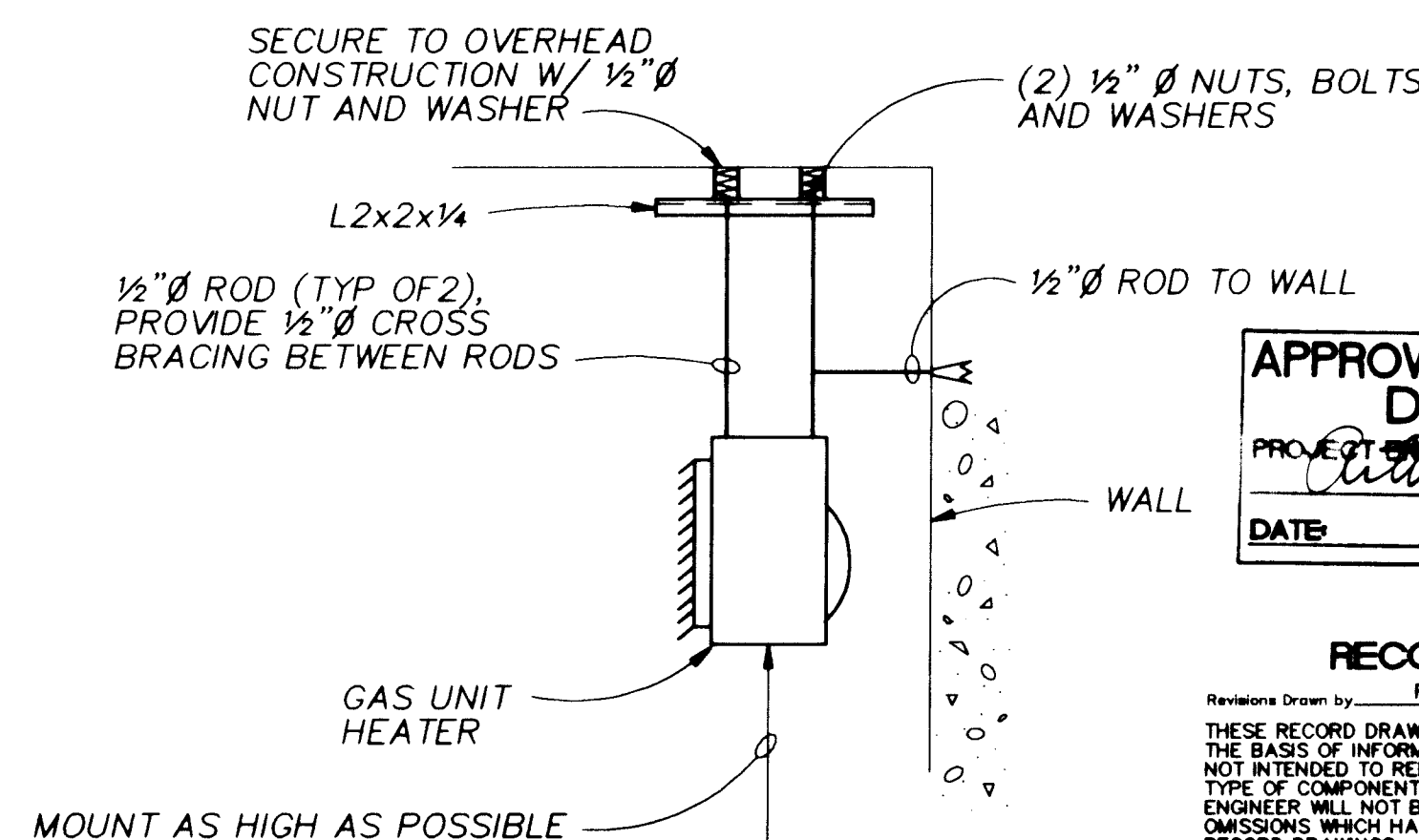
MODIFIED WITH NEW EQUIPMENT

DETAIL 2

3/8" = 1'-0"



WALL MOUNTED



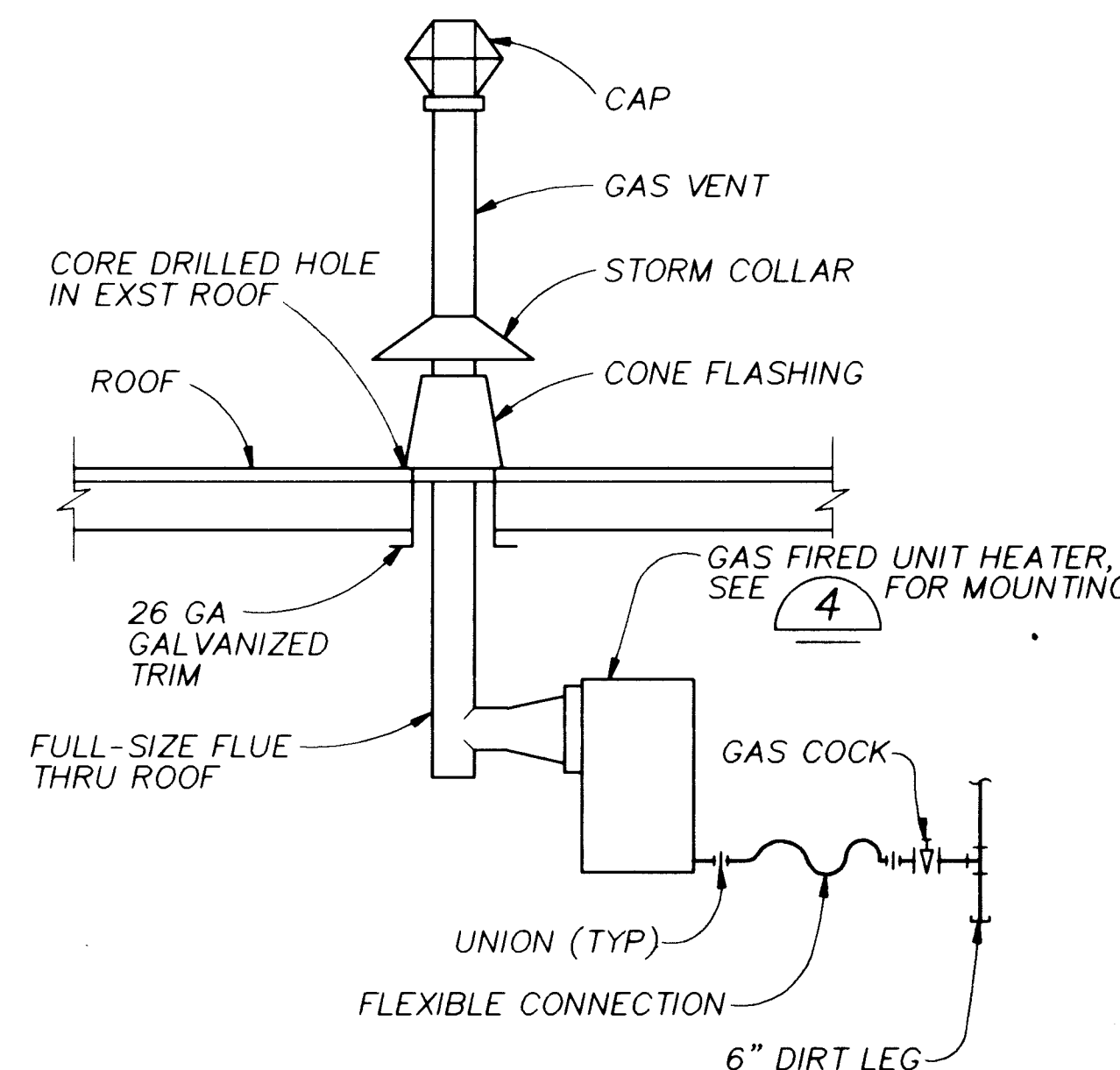
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HEATER SUPPORT DETAIL 4

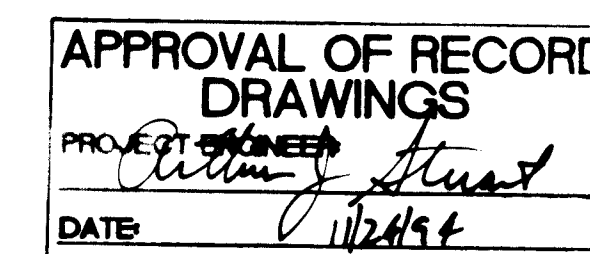
NTS

GENERAL NOTES FOR HEAT EXCHANGERS

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS OF THE EXISTING HEAT EXCHANGERS, AFTERCOOLER SECTIONS AND THEIR CONNECTION AND APPURTENANCES PRIOR TO FABRICATION OF REPLACEMENT EQUIPMENT. FIELD MEASUREMENTS SHALL BE INCLUDED IN MANUFACTURER'S SHOP DRAWING SUBMITTALS.
2. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO REMOVE THE EXISTING HEAT EXCHANGERS AND AFTERCOOLER SECTIONS AND REPLACE THEM WITH THE NEW DOUBLE-WALLED EQUIPMENT SPECIFIED AND DISCONNECT AND RECONNECT ALL INLET AND OUTLET PIPING. ALL PIPING SHALL BE FLANGED OR RESTRAINED TO RESIST THRUST FROM 225 PSI TEST PRESSURE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY EXISTING FACILITIES DAMAGED DURING COMPLETION OF THE WORK DESCRIBED.
4. PAINT EXTERIOR OF NEW EQUIPMENT AND APPURTENANCES AND ANY DAMAGED EXISTING COATING WITH HEAT RESISTANT PAINT SYSTEM AS SPECIFIED IN SECTION PAINTING. COLOR TO MATCH EXISTING.
5. ALL EXISTING PIPE STEEL UNLESS OTHERWISE NOTED.
6. MODIFY EXISTING PIPE SUPPORTS FOR INSTALLATION AND SUPPORT OF NEW EQUIPMENT. MODIFICATIONS MAY INCLUDE SAW CUTTING OF SUPPORTS TO LOWER HEIGHT TO ACCOMMODATE LARGER DIAMETER EQUIPMENT.
7. HEAT EXCHANGER EQUIPMENT TO BE DEMOLISHED AND REPLACED IS LOCATED INSIDE EXISTING WELL AND PUMP STATION BUILDINGS. WORK SPACE IS LIMITED BY OTHER EQUIPMENT WHICH MUST REMAIN IN PLACE AND OPERATIONAL. HOISTS AND LIFTING EYES ARE NOT AVAILABLE AT ANY FACILITY.
8. VCTAULIC-TYPE, GROOVED END FLANGE MAY BE USED ON ONE END OF NEW PIPING TO FACILITATE INSTALLATION. PROVIDE FLEXIBLE COUPLINGS OR FLANGE COUPLING ADAPTERS TO ALLOW REMOVAL OF THE HEAT EXCHANGER. FLEXIBLE COUPLINGS AND FLANGE COUPLING ADAPTERS SHALL BE THRUST RESTRAINED AS SHOWN ON DWG D-MS-2.
9. ALL HEAT EXCHANGER PIPING TO BE MODIFIED IS 5 FEET OR LESS IN ELEVATION ABOVE THE PUMP OR WELL HOUSE FLOOR.



GAS VENT AND PIPING CONNECTION 3
NTS

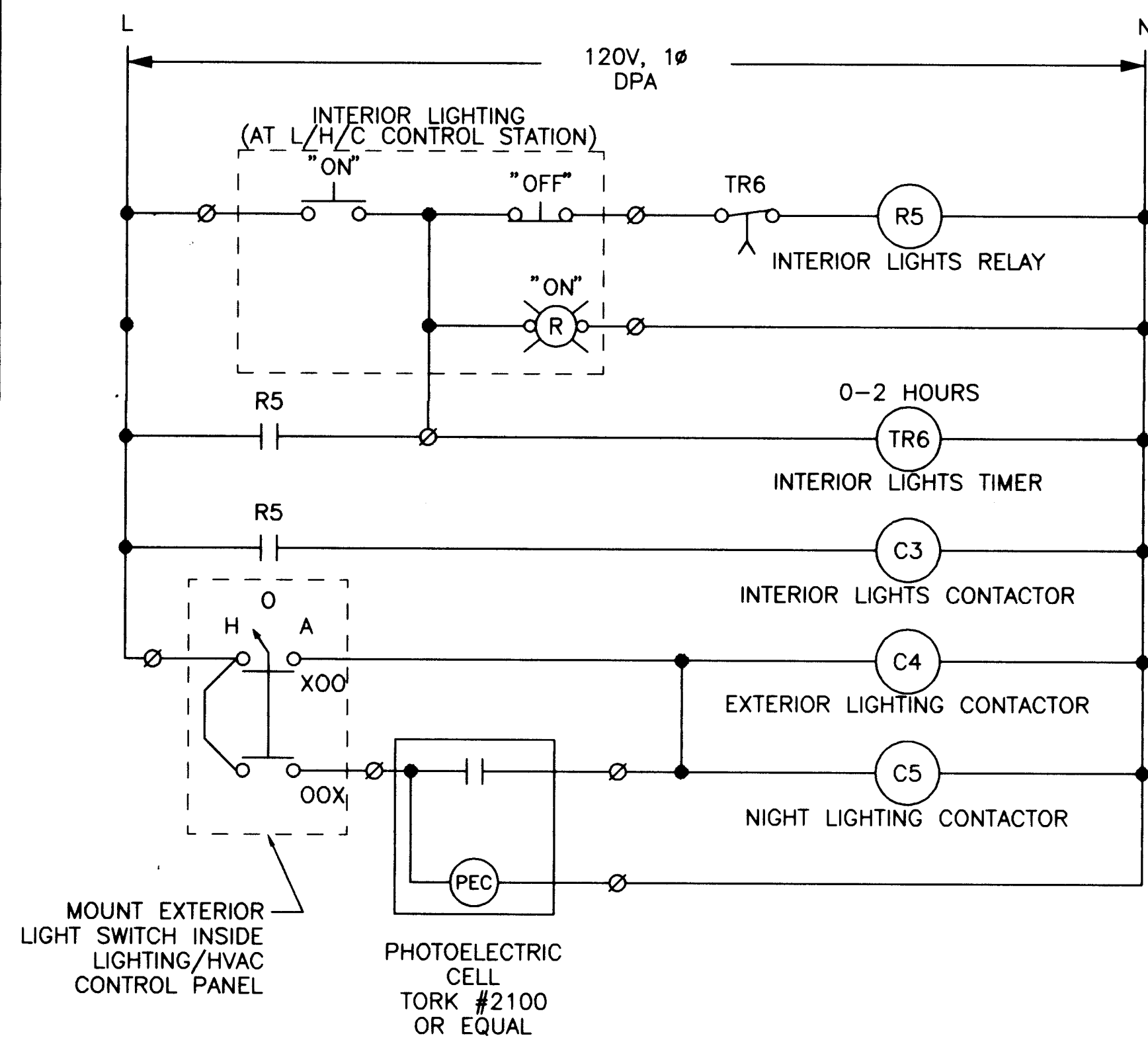


RECORD DRAWINGS
Revisions Drawn by: R. GONZALES Date: 7/21/94
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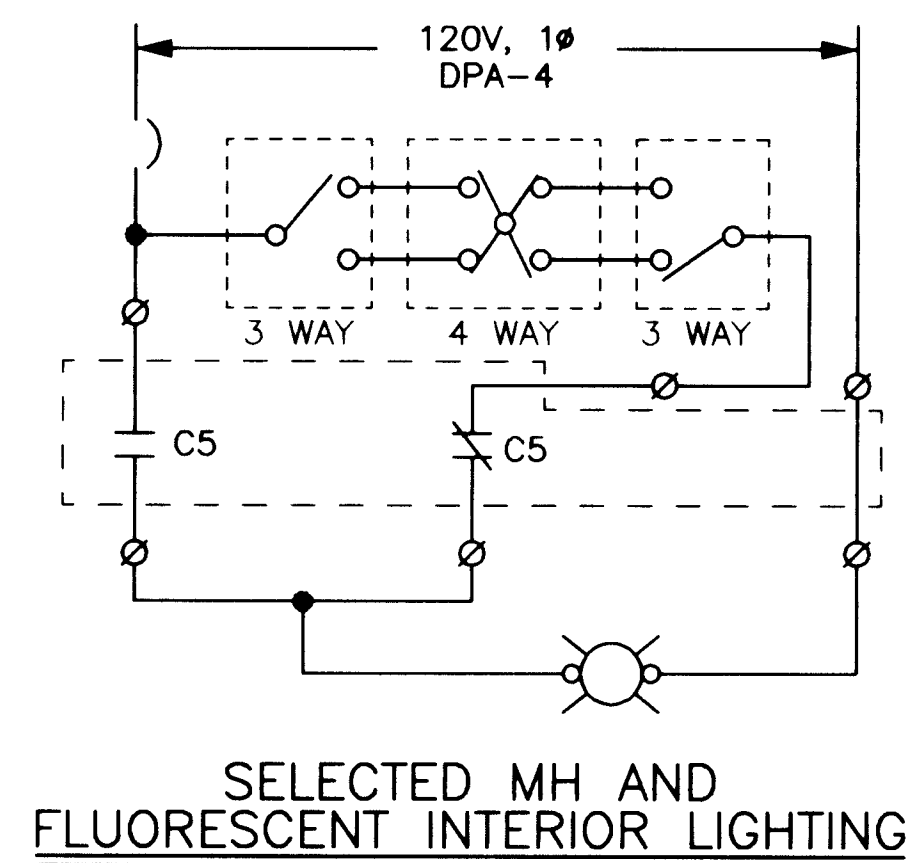
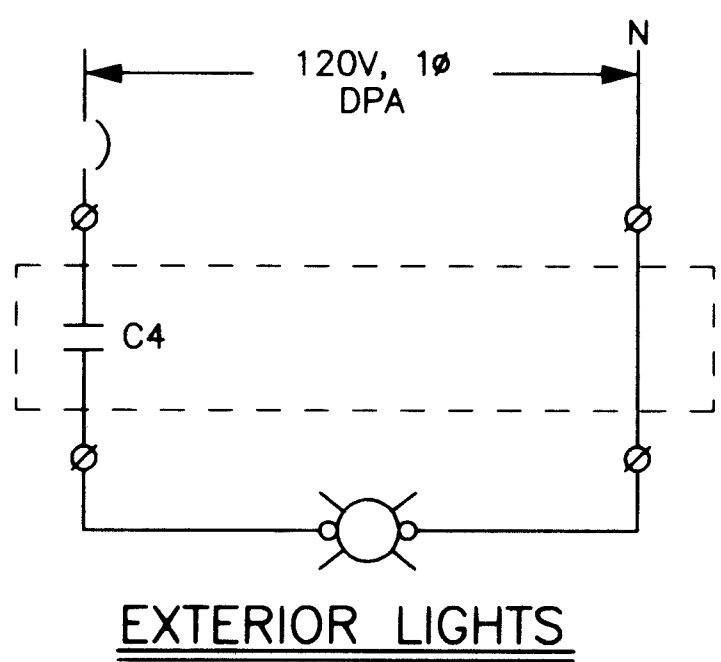
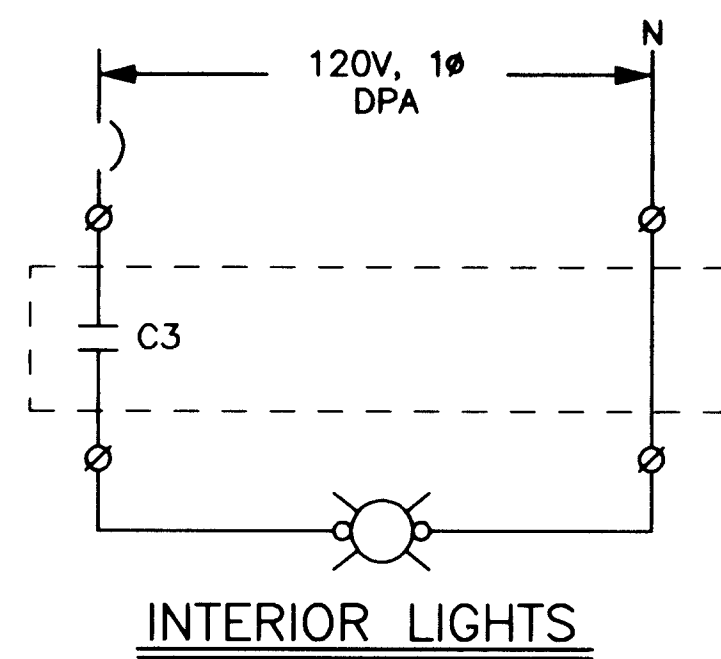
SCANNED BY LASON

VERIFIED BY
BAR IS ONE INCH ON ORIGINAL DRAWING
0" = 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: ELECTRICAL AND MECHANICAL REHABILITATION SANDIA MANOR PUMP STATION AND DETAILS MECHANICAL/ELECTRICAL PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Waste Water		
Hydrology					
DRAWING NO. W-M-5		MAP NO. J-23		SHEET 8 OF 43	

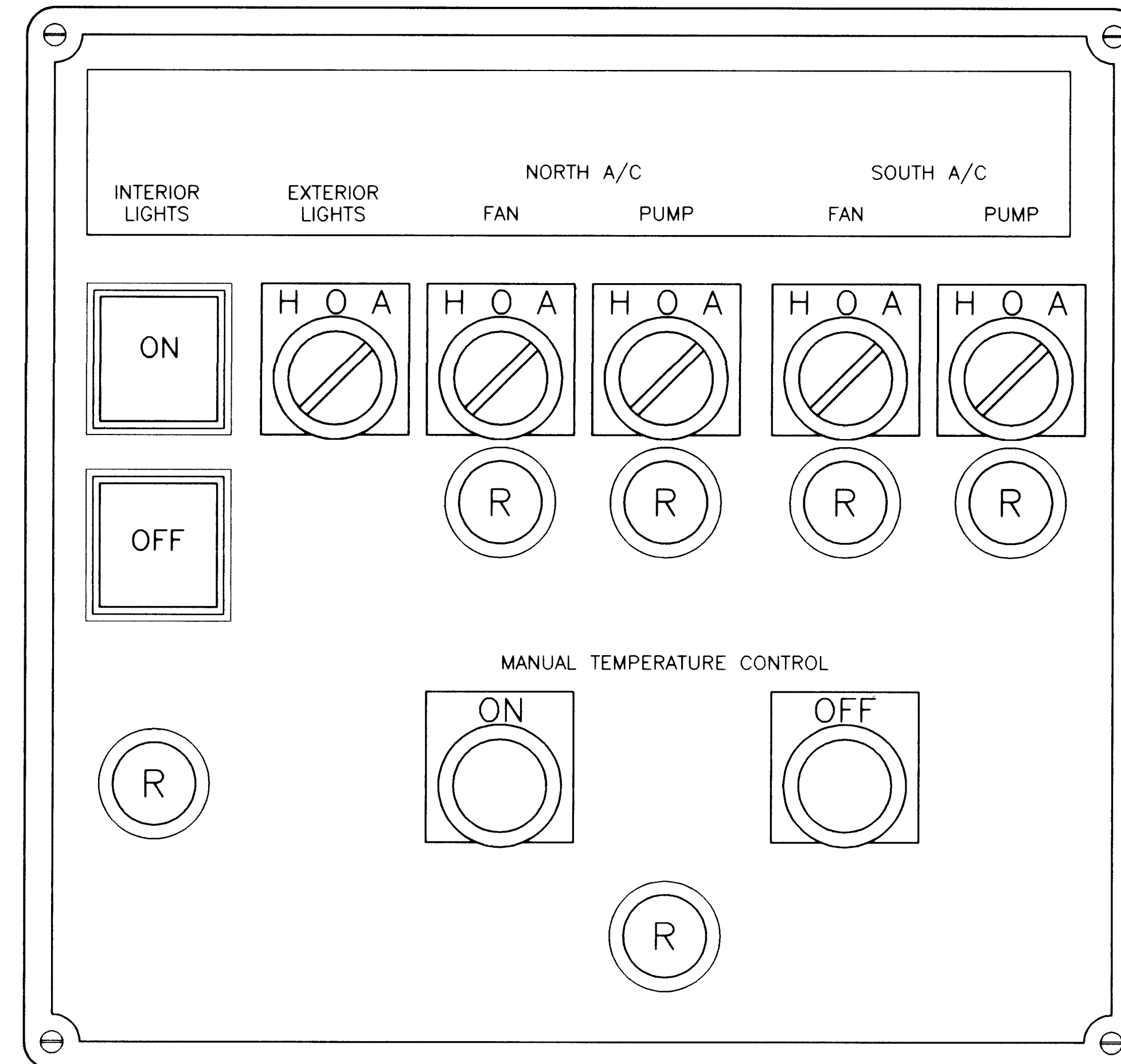


LIGHTING SCHEMATIC FOR
SANDIA MANOR PUMP STATION

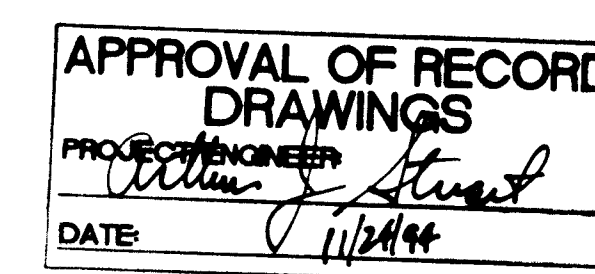


GENERAL NOTES

1. MOUNT THERMOSTATS ADJACENT TO HEAT/COOL CONTROL PANEL AT PUMP STATIONS.



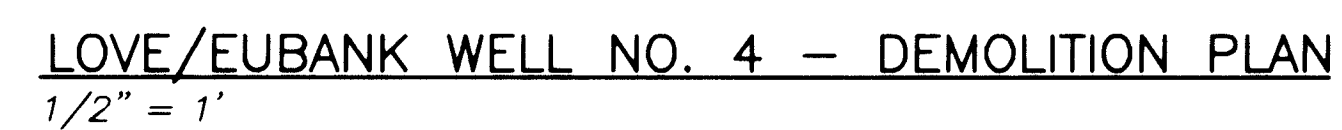
N.T.S.



26 4366.940994
RECORD DRAWINGS
R. GONZALES Date: 7/21/94
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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: SANDIA MANOR PUMP STATION LIGHTING SCHEMATICS HEAT/COOL CONTROL PANEL					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					
DRAWING NO. W-E-1		MAP NO.		SHEET 9 OF 43	



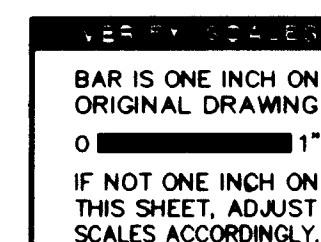
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RECORD DRAWINGS

Revelations Drawn by: R. GONZALES Date: 7/21/94

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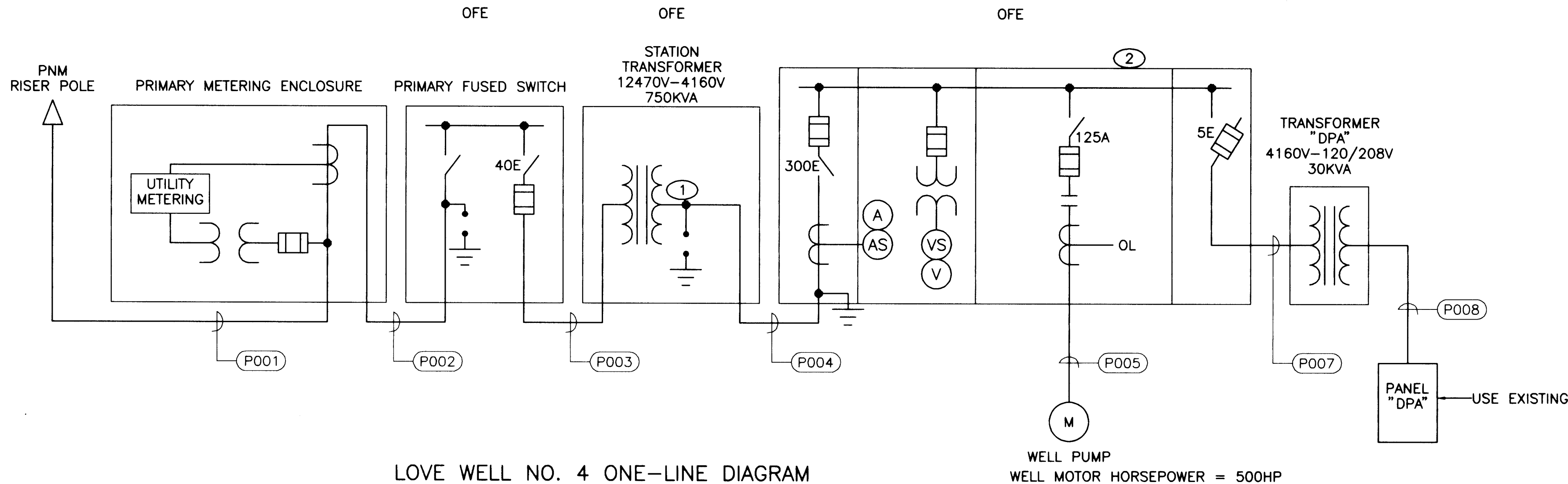
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BY: LASON



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: LOVE/EUBANK WELL NO. 4 DEMOLITION PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					
DRAWING NO. W-E-2		MAP NO.		SHEET 10 OF 43	

- ① REMOVE EXISTING MOTOR CONTROL UNIT.
- ② REMOVE TRANSFORMERS AND ALL OTHER ELECTRICAL EQUIPMENT AND CONDUIT IN EXST TRANSFORMER VAULT.
- ③ CONTRACTOR MAY REUSE EXISTING CONDUIT TO FEED THE NEW PUMP MOTOR.
- ④ REMOVE " G & W" BREAKOUT SWITCH AND ASSOCIATED CONDUIT AND FUSES. REMOVE CONDUITS TO GRADE AND GROUT.
- ⑤ REMOVE EXISTING TRANSFORMER AND ASSOCIATED CONDUITS TO GRADE AND GROUT.
- ⑥ NEW RISER WILL BE ON POWER POLE (PP) BY FENCE. REFERENCE POWER AND CONTROL PLAN. PNM WILL REMOVE POWER POLE AND EXISTING GUY WIRES. COORDINATE WITH PNM.
- ⑦ REMOVE FEEDER WIRES AND ASSOCIATED CONDUIT. REMOVE CONDUIT TO GRADE AND CAP.
- ⑧ REFERENCE RISER LOCATION ON POWER AND CONTROL PLAN DRAWING W-E-4.
- ⑨ REMOVE FEEDER TO EXISTING METER. "CONTRACTOR SHALL SUPPLY AND INSTALL SERVICE PER PNM DS-4-9.5."
- ⑩ REMOVE FEEDER AND ASSOCIATED CONDUIT BETWEEN "DPA" AND TRANSFORMER.
- ⑪ REMOVE HEATER "CONTROL" WIRING AND ASSOCIATED THERMOSTAT. CONTRACTOR WILL SALVAGE HEATER AND TURN OVER TO THE OWNER.

[illegible]



LOVE WELL NO. 4 ONE-LINE DIAGRAM
N.T.S.

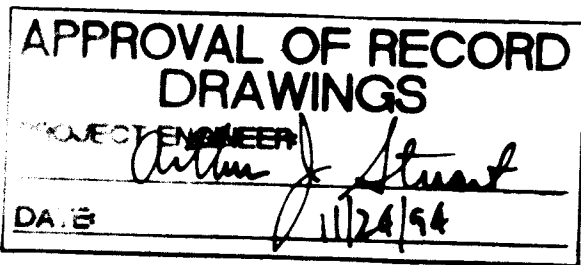
NOTES

- 1 CONTRACTOR SHALL SUPPLY AND INSTALL 3 KV SURGE ARRESTORS IN SECONDARY OF TRANSFORMER.
2 ALL FUSES IN MCC COME WITH MCC (OFE).

POWER					
TAG	SIZE	CONDUCTOR	FROM	TO	REMARKS
P001	4"	PNM	PNM RISER POLE	METERING ENCLOSURE	CONTRACTOR TO RUN CONDUIT AND BUILD RISER TO PNM SPECS. ALL PRIMARY UNDERGROUND TO BE CONCRETE ENCASED
P002	4"	3#2 15KV, 1#2, GND	METERING ENCLOSURE	PRIMARY FUSED SWITCH	
P003	4"	3#2 15KV, 1#2, GND	PRIMARY FUSED SWITCH	STATION XFMR PRIMARY	
P004	4"	3#2 5KV, SHIELDED 1#2, GND	STATION XFMR SECONDARY	MCU MAIN DISCONNECT	
P005	4"	3#2 5KV, NON-SHIELDED 1#2, GND	MCU	PUMP MOTOR	
P006	2"	3#2 5KV, NON-SHIELDED 1#2, GND	MCU	XFMR DPA PRIMARY	NOT USED
P007	2"	4 #1, 1 #6, GND	XFMR DPA SECONDARY	PANEL DPA	STATION POWER
P008	3/4"	3 #12, 1 #12, GND	EVAP. COOLER DISCONNECT	HEAT COOL CONTROL PANEL	START/STOP COMMAND
P009	3/4"	2 #12, 1 #12, GND	MOTOR CONTROL CENTER	RTB (RUN CONTACT)	
P010	3/4"	4 #12, 1 #12, GND	DPA-20, 22, 24	DISCHARGE VALVE J-BOX	
P011	3/4"	2 #12, 1 #12, GND	DPA- 2	HEAT/COOL CONTROL PANEL	
P012	3/4"	2 #12, 1 #12, GND	DPA- 15	FTI	EXISTING
P013	3/4"	2 #12, 1 #12, GND	MCU	MOTOR VIBRATION ELEMENT	NOT USED
P014	3/4"	2 #12, 1 #12, GND	DPA- 3	RTU	EXISTING
P015	3/4"	2 #12, 1 #12, GND	DPA- 5	RADIO	NOT USED
P016	3/4"	2 #12, 1 #12, GND	POWER SUPPLY (IC CABINET)	PRESSURE TRANSDUCER TRANSMITTER	EXISTING
P017	3/4"	2 #16, 1#16, GND	DPA 8,10,12	EVAPORATIVE COOLER STARTER	NOT USED
P018	3/4"	1 #12, 1 #12 GND	DPA 6	AUTOMATIC IRRIGATION CONTROL	EXISTING
P019	3/4"	3 #12, 1 #12 GND	HEAT/COOL CTRL PANEL	EVAPORATIVE COOLER	NOT USED
P020	3/4"				NOT USED
P021	3/4"				
P022	3/4"				
P023	3/4"				
P024	3/4"				

INSTRUMENTATION & CONTROL					
TAG	SIZE	CONDUCTOR	FROM	TO	REMARKS
C001	1"	8 3C SHIELDED AND 1 2C SHIELDED	MOTOR RTD WITH TWSH FOR XE	MCU	NOT USED
C002	3/4"	9 #14	WASHLINE VALVE J-BOX	J-BOX (CONTROL)	
C003	3/4"	9 #14	DISCHARGE VALVE	J-BOX (CONTROL)	
C004					NOT USED
C005					NOT USED
C006					NOT USED
C007					
C008	1"	6 #14, 1 2C SHIELDED	MCU	RTB	NOT USED
C009	3/4"	2 #12	MCU	EMERGENCY STOP	NOT USED
C010					NOT USED
C011					NOT USED
C012					NOT USED
C013					EXISTING CONDUIT MAY BE USED
C014	1 1/2"	CONTROL CONDUCTORS (J-BOX CTRL)	J-BOX (CONTROL)	RTB	NOT USED
C015	3/4"	2 #14, 1 #14, GND	UNIT HEATER	HEAT/COOL CONTROL PANEL	NOT USED
C016					NOT USED
C017					NOT USED
C018	2"		RTU	RTB	EXISTING
C019	2"		RTU	RTB	EXISTING
C020	3/4"	MFG. SUPPLIED		RADIO	EXISTING
C021	3/4"				EXISTING
C022					NOT USED
C023	3/4"	4 #14	HEAT/COOL CONTROL PANEL	EVAPORATIVE COOLER (FAN/PUMP)	

CONDUIT SCHEDULE



RECORD DRAWINGS
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PANELBOARD "DPA"
USE EXISTING PANELBOARD

LOVE WELL NO. 4
PANELBOARD SCHEDULE

VERIFIED SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: LOVE/EUBANK WELL NO. 4
ONE-LINE, PANELBOARD
AND CONDUIT SCHEDULE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					

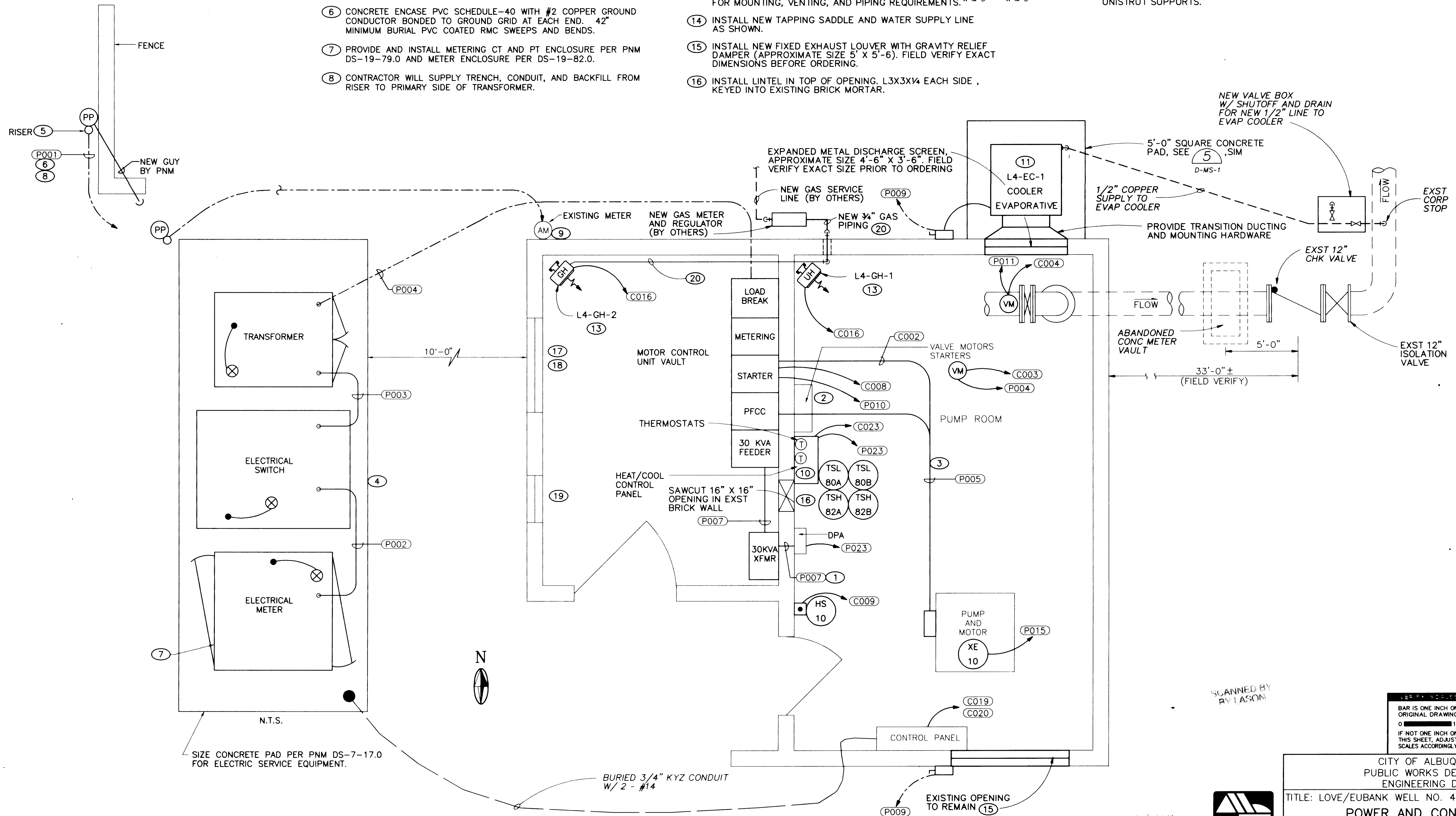
DRAWING NO. W-E-3 SHEET 11 OF 43

NOTES

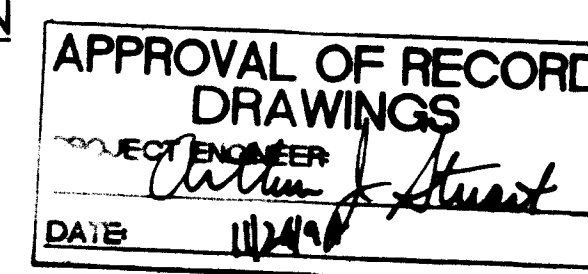
- 1 CORE DRILL WALL FOR CONDUIT FROM 30 KVA TRANSFORMER TO "DPA". BACKFILL AROUND CONDUIT WITH SILICONE COMPOUND.
- 2 CONTRACTOR MAY USE EXISTING HOLE FOR PUMP POWER CONDUIT. IF NOT USED, PATCH AND PAINT TO MATCH EXISTING.
- 3 INSTALL NEW PUMP MOTOR POWER AND CONTROL CONDUITS OVERHEAD. ATTACH TO CEILING STRUCTURE USING UNISTRUT SUPPORTS.
- 4 BOND GROUND ROD TO EQUIPMENT ENCLOSURE AND GROUND BUS.
- 5 PROVIDE AND INSTALL PER PNM DS-7-15-1.
- 6 CONCRETE ENCASE PVC SCHEDULE-40 WITH #2 COPPER GROUND CONDUCTOR BONDED TO GROUND GRID AT EACH END. 42" MINIMUM BURIAL PVC COATED RMC SWEEPS AND BENDS.
- 7 PROVIDE AND INSTALL METERING CT AND PT ENCLOSURE PER PNM DS-19-79.0 AND METER ENCLOSURE PER DS-19-82.0.
- 8 CONTRACTOR WILL SUPPLY TRENCH, CONDUIT, AND BACKFILL FROM RISER TO PRIMARY SIDE OF TRANSFORMER.

- 9 COORDINATE WITH PNM TO PROVIDE NEW 120/240V SERVICE UNDERGROUND TO EXISTING METER. SERVICE MUST BE CONTINUAL, USED FOR IRRIGATION.
- 10 MOUNT A/C STARTER INSIDE HEAT/COOL CONTROL PANEL.
- 11 INSTALL NEW EVAPORATIVE COOLER (L4-EC-1) ON FOUR LEGGED STAND (APPROXIMATELY 2'-0" HIGH), SEE DURANES PUMP STATION DWG W-M-4, SIM.
- 13 INSTALL NEW GAS UNIT HEATERS (L4-GH-1&2), SEE 3 & 4 FOR MOUNTING, VENTING, AND PIPING REQUIREMENTS. W-M-5 W-M-5
- 14 INSTALL NEW TAPPING SADDLE AND WATER SUPPLY LINE AS SHOWN.
- 15 INSTALL NEW FIXED EXHAUST LOUVER WITH GRAVITY RELIEF DAMPER (APPROXIMATE SIZE 5' X 5'-6"). FIELD VERIFY EXACT DIMENSIONS BEFORE ORDERING.
- 16 INSTALL LINTEL IN TOP OF OPENING. L3X3X1/4 EACH SIDE, KEYED INTO EXISTING BRICK MORTAR.

- 17 INSTALL NEW FIXED EXHAUST LOUVER W/GRAVITY RELIEF (APPROXIMATE SIZE 4'-0" X 1'-8"). FIELD VERIFY EXACT DIMENSIONS BEFORE ORDERING.
- 18 REMOVE EXISTING MASONRY AND CLOSE OPENING (APPROXIMATE SIZE 4'-0" X 2'-8"). BELOW NEW LOUVER WITH MATCHING BUILDING MASONRY.
- 19 REMOVE EXISTING MASONRY AND CLOSE OPENING (APPROXIMATE SIZE 2'-0" X 6'-0") WITH MATCHING BUILDING MASONRY.
- 20 ROUTE NEW 3/4" BLACK STEEL GAS LINE FROM THE METER TO EACH UNIT HEATER. ATTACH PIPING TO WALL USING UNISTRUT SUPPORTS.



LOVE/EUBANK WELL NO. 4 - POWER AND CONTROL PLAN
1/2" = 1'

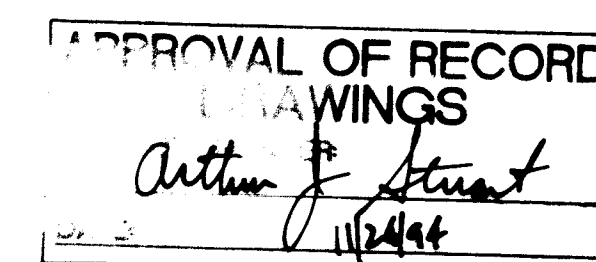
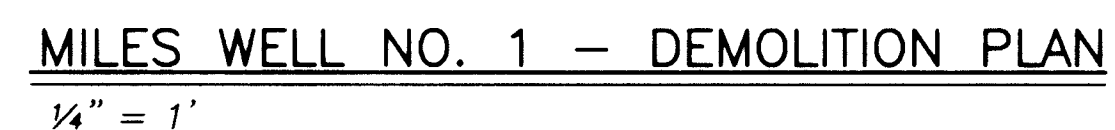


RECORD DRAWINGS
Revisions Drawn by: R. GONZALES Date: 7/21/94
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SCANNED BY
BY LASON

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: LOVE/EUBANK WELL NO. 4 POWER AND CONTROL PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					
DRAWING NO. W-E-4		MAP NO.		SHEET 12 OF 43	



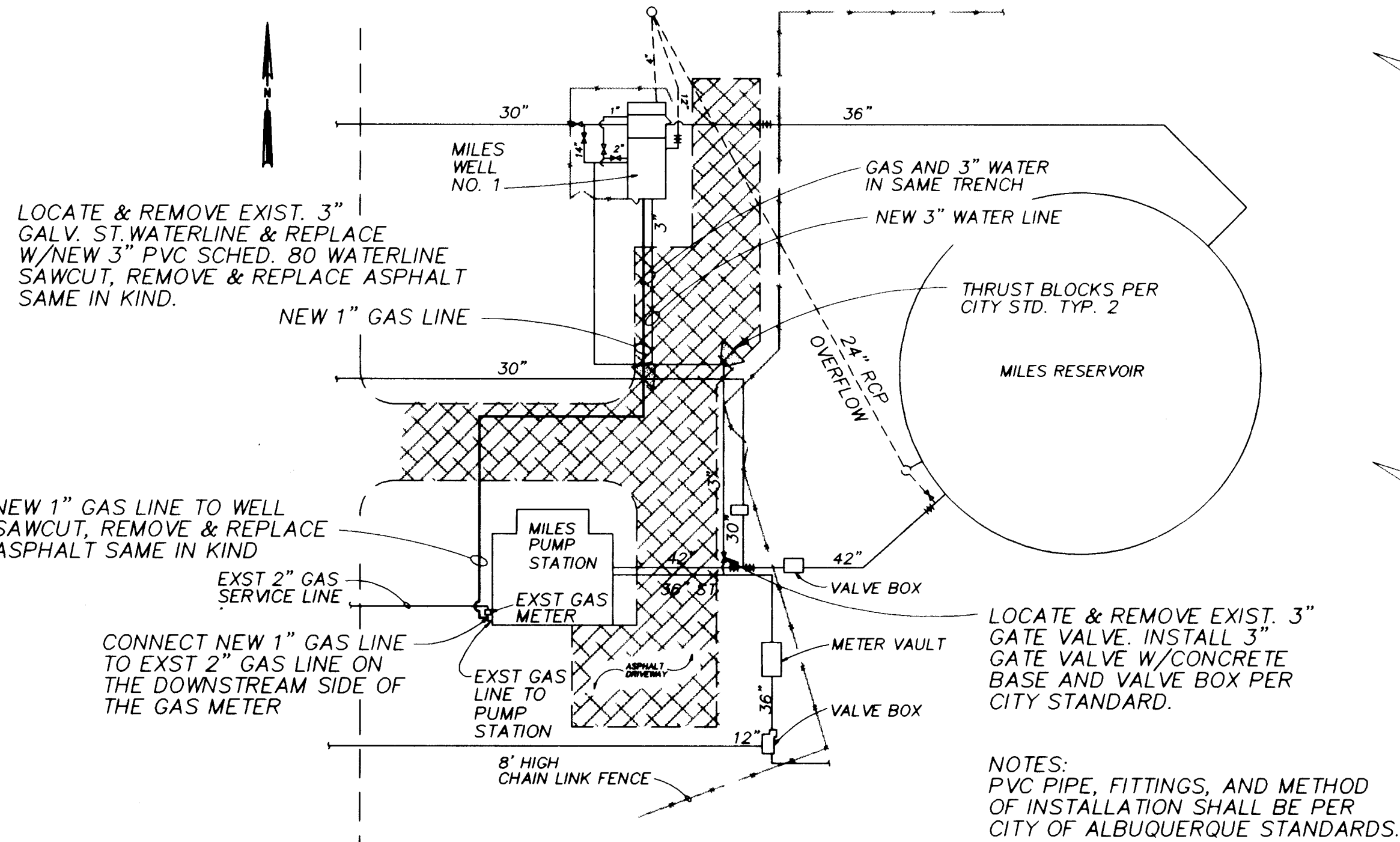
RECORD DRAWINGS

Revisions Drawn by R. GONZALES Date 7/21/84

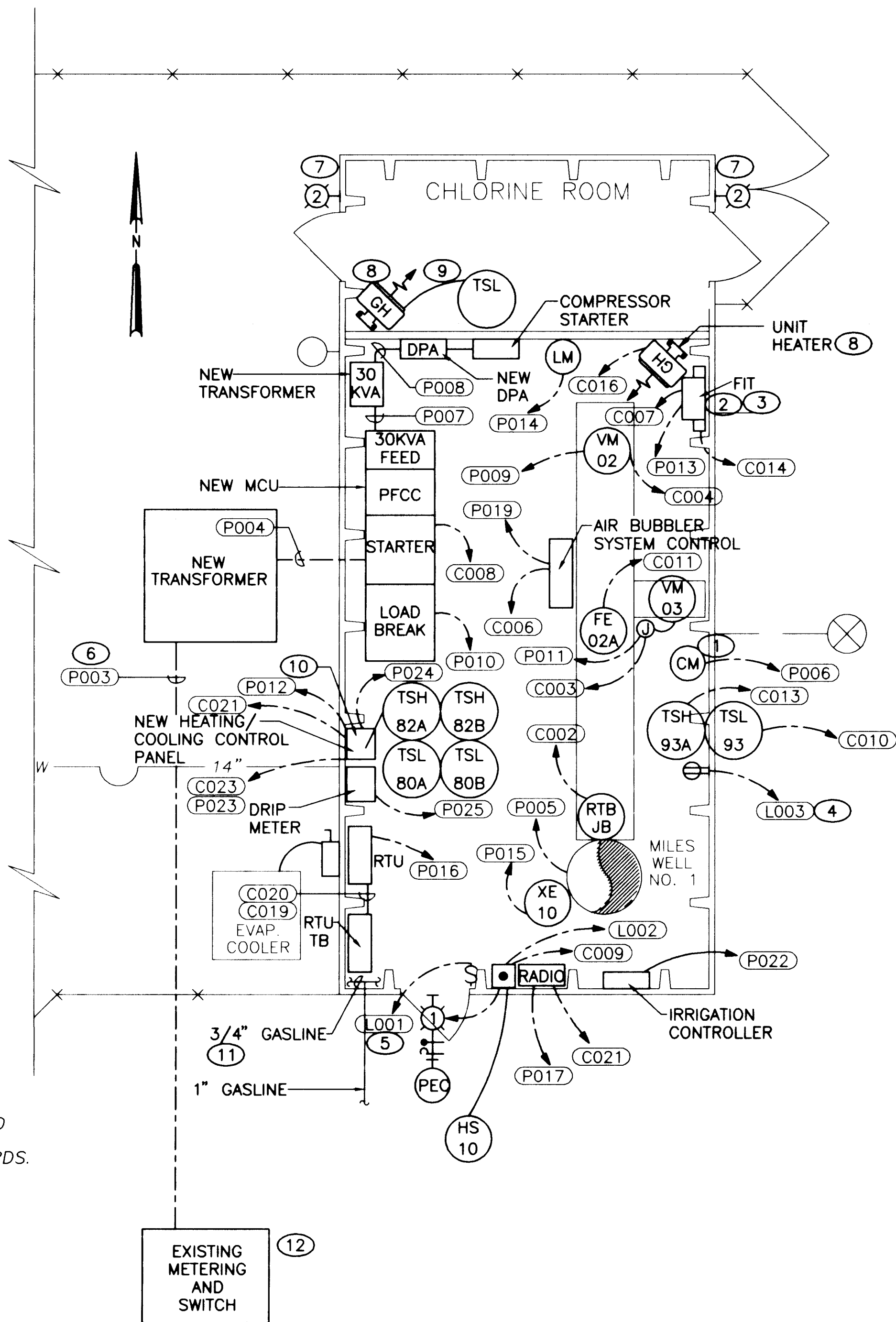
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MWN1DEMO.DWG 1/4"=1'-0" 8-13-93



MILES PUMP STATION AND WELL NO. 1 SITE PLAN
NTS



MILES WELL NO. 1 - POWER AND CONTROL PLAN
1/4" = 1'

GENERAL NOTES

1. REFEED POWER TO EQUIPMENT FROM NEW DPA AS INDICATED.
2. CONTRACTOR MAY CHOOSE TO USE EXISTING CONTROL WIRING AND CONDUIT, HOWEVER, ALL CONTROL WIRING MUST BE WIRED AS SHOWN ON CONDUIT SCHEDULE AND SCHEMATICS.

NOTES

1. REMOVE COMPRESSOR STARTER FROM COMPRESSOR SKID AND RELOCATE ADJACENT TO "DPA". EXTEND POWER CONDUIT FROM OLD DPA LOCATION TO NEW STARTER LOCATION. PROVIDE CONDUIT AND CONDUCTORS FROM NEW DPA TO STARTER.
2. EXISTING J-BOX BELOW FIT CONTAINS POWER AND CONTROL WIRING.
3. ROUTE CONTROL WIRING THROUGH EXISTING J-BOX. RUN NEW POWER CONDUIT AND WIRE FROM NEW DPA TO ALL DEVICES. REMOVE EXISTING POWER CONDUIT AND WIRE.
4. PUT ALL RECEPTACLES ON SAME FEEDER CONDUIT TO DPA.
5. ALL INTERIOR LIGHTING CONTROLLED BY LIGHT SWITCH.
6. EXISTING WIRE MAY BE USED IF IT IS AS SCHEDULED. CONTRACTOR WILL USE EXISTING CONDUIT.
7. REPLACE CHLORINE ALARM WARNING LIGHT WITH STANDARD RED LENS LIGHT.
8. REPLACE HEATER (M1-GH-1 & M1-GH-2). SEE HEATER SCHEDULE IN THE SPECIFICATIONS. SEE DETAILS 3 & 4 SIMILAR FOR INSTALLATION REQUIREMENTS. W-M-5 W-M-5
9. USE 3/4" SCHEDULE 80 PVC FOR NEW CONDUIT IN CHLORINE ROOM.
10. MOUNT EVAPORATIVE COOLER STARTER INSIDE HEAT/COOL CONTROL PANEL.
11. ROUTE 3/4" BLACK STEEL GASLINE TO EACH HEATER. ATTACH PIPING TO WALL USING UNISTRUT SUPPORTS.
12. METERING AND SWITCH ENCLOSURE IS LOCATED ON THE EAST SIDE OF MILES PUMP STATION APPROXIMATELY 150 FEET DUE SOUTH OF SOUTH WALL OF MILES WELL NO.1. VERIFY ACTUAL DISTANCE.

LUMINAIRE SCHEDULE	
TYPE	DESCRIPTION
1	70 WATT HPS EXTERIOR LUMINAIRE WITH PHOTOCELL 120VAC, VANDELPROOF. KEENE OR ENGINEER APPROVED EQUIVALENT.
2	70 WATT, 120VAC WARNING LIGHT. UL LISTED FOR OUTDOOR USE. PROVIDE WITH RED, FRESNEL LENS OF IMPACT RESISTANT MATERIAL. FEDERAL SIGNAL OR ENGINEER APPROVED EQUIVALENT.

VERIFIED SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

SCANNED BY
RYLASON

APPROVAL OF RECORD
DRAWINGS
PROJECT ENGINEER
DATE 11/24/94

RECORD DRAWINGS
Revisions Drawn by R. GONZALES Date 7/21/94
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPLIED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.



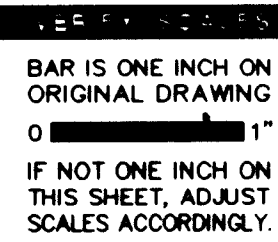
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: MILES WELL NO. 1 POWER AND CONTROL PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					
DRAWING NO. W-E-7		MAP NO.		SHEET 15 OF 43	

POWER					
TAG	SIZE	CONDUCTOR	FROM	TO	REMARKS
P001					NOT USED
P002					NOT USED
P003	4"	3 #2 15KV, 1 #2, GND	PRIMARY FUSED SWITCH	STATION XFMR PRIMARY	
P004	4"	3 #2 5KV, SHIELDED 1 #2, GND	STATION XFMR SECONDARY	MCU MAIN DISCONNECT	
P005	4"	3 #2 5KV, NON-SHIELDED 1 #2, GND	MCU	PUMP MOTOR	
P006	3/4"	3 #12, 1 #12, GND	DPA 23, 25, 27	COMPRESSOR	
P007	2"	3 #2 5KV, NON-SHIELDED 1 #2, GND	MCU	XFMR DPA PRIMARY	
P008	2"	4 #1, 1 #6, GND	XFMR DPA SECONDARY	PANEL DPA	STATION POWER
P009	3/4"	4 #12, 1 #12, GND	DPA-14, 16, 18	WASHLINE VALVE	
P010	3/4"	2 #12, 1 #12, GND	MOTOR CONTROL CENTER	RTB (RUN CONTACT)	START/STOP COMMAND
P011	3/4"	4 #12, 1 #12, GND	DPA-20, 22, 24	DISCHARGE VALVE J-BOX	
P012	3/4"	2 #12, 1 #12, GND	DPA- 2	HEAT/COOL CONTROL PANEL	
P013	3/4"	2 #12, 1 #12, GND	DPA- 15	FTI	
P014	3/4"	2 #12, 1 #12, GND	DPA- 21	MOTORIZED LOUVER MOTOR	
P015	3/4"	2 #12, 1 #12, GND	MCU	MOTOR VIBRATION ELEMENT	
P016	3/4"	2 #12, 1 #12, GND	DPA- 3	RTU	
P017	3/4"	2 #12, 1 #12, GND	DPA- 5	RADIO	
P018					NOT USED
P019	3/4"	2 #16, 1#16, GND	POWER SUPPLY (IC CABINET)	PRESSURE TRANSDUCER TRANSMITTER	24 VOLT POWER
P020					NOT USED
P021	3/4"	3 #12, 1 #12 GND	DPA 8,10,12	EVAPORATIVE COOLER STARTER	
P022	3/4"	1 #12, 1 #12 GND	DPA 6	AUTOMATIC IRRIGATION CONTROL	
P023	3/4"	3 #12, 1 #12 GND	HEAT/COOL CTRL PANEL	EVAPORATIVE COOLER	
P024					NOT USED
P025	3/4"	2 #12, 1 #12 GND	DPA-26	DRIP METER	

LIGHTING AND RECEPTACLES					
TAG	SIZE	CONDUCTOR	FROM	TO	REMARKS
L001	3/4"	2 #12, 1 #12, GND	DPA- 1	INSIDE LIGHTS	
L002	3/4"	2 #12, 1 #12, GND	DPA- 11	OUTSIDE LIGHTS	
L003	3/4"	2 #12, 1 #12, GND	DPA- 17	RECEPTACLES	

INSTRUMENTATION & CONTROL					
TAG	SIZE	CONDUCTOR	FROM	TO	REMARKS
C001	3/4"	2 #14, 1 #14, GND	UTILITY METER ENCLOSURE	RTB	KWH PULSE FROM KYZ
C002	1"	8 3C SHIELDED AND 1 2C SHIELDED	MOTOR RTD WITH TWSH FOR XE	MCU	
C003	3/4"	9 #14	WASHLINE VALVE J-BOX	J-BOX (CONTROL)	
C004	3/4"	9 #14	DISCHARGE VALVE	J-BOX (CONTROL)	
C005					NOT USED
C006	3/4"	1 2C SHIELDED	DRAWDOWN PRESSURE TRANSMITTER	J-BOX (CONTROL)	
C007	3/4"	1 2C SHIELDED	FTI	J-BOX (CONTROL)	
C008	1"	6 #14, 1 2C SHIELDED	MCU	RTB	
C009	3/4"	2 #12	MCU	EMERGENCY STOP	
C010	3/4"	2 #14, 1 #14, GND	LO AIR TEMP. SWITCH	RTB	
C011	3/4"	MFG. SUPPLIED	FLOW ELEMENT	FTI	
C012					NOT USED
C013	3/4"	2 #14, 1 #14, GND	HIGH AIR TEMP. SWITCH	RTB	
C014	1 1/2"	CONTROL CONDUCTORS (J-BOX CTRL)	J-BOX (CONTROL)	RTB	EXISTING CONDUIT MAY BE USED
C015					NOT USED
C016	3/4"	2 #14, 1 #14, GND	UNIT HEATER	HEAT/COOL CONTROL PANEL	
C017					NOT USED
C018					NOT USED
C019	2"		RTU	RTB	OWNER WILL PULL ALL WIRES BETWEEN RTU AND RTB
C020	2"		RTU	RTB	OWNER WILL PULL ALL WIRES BETWEEN RTU AND RTB
C021	3/4"	MFG. SUPPLIED	RTU	RADIO	
C022					NOT USED
C023	3/4"	4 #14	HEAT/COOL CONTROL PANEL	EVAPORATIVE COOLER (FAN/PUMP)	
C024	3/4"	2 #14	HIGH AIR TEMP. SWITCH (TSH-82A)	HEAT/COOL CONTROL PANEL	

CONDUIT SCHEDULE



SCANNED BY
BY LASON

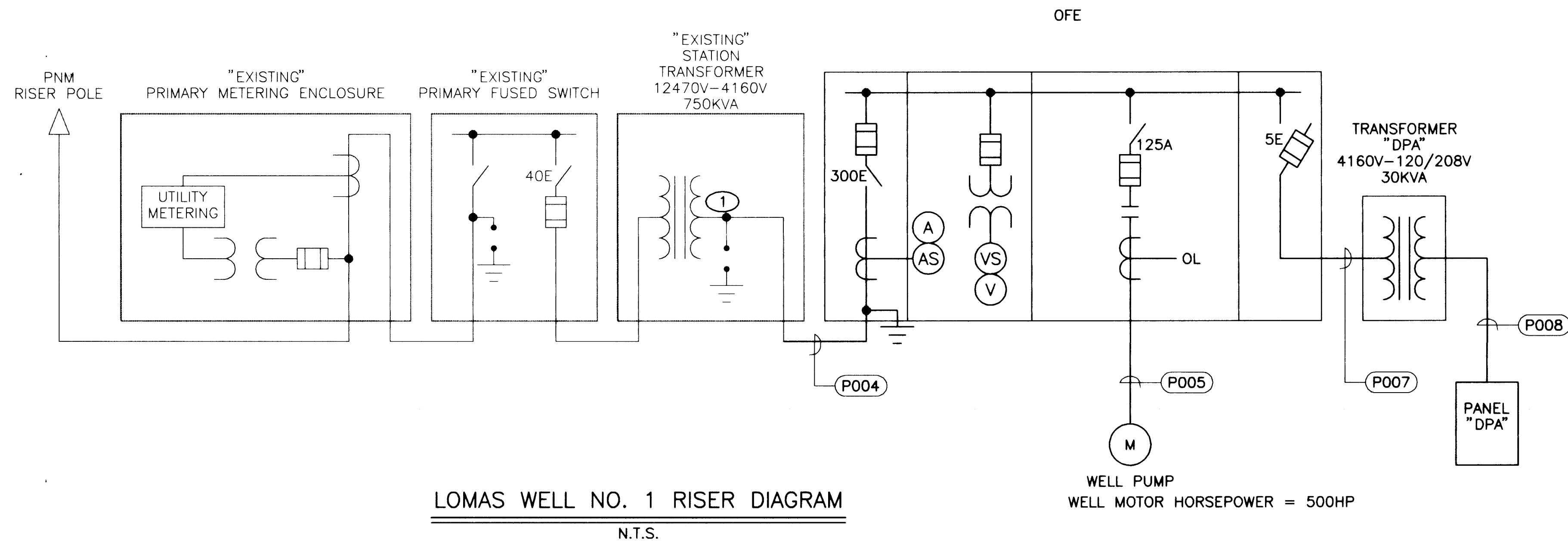
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APPROVAL OF RECORD DRAWINGS
PROJECT ENGINEER <i>[Signature]</i>
DATE 11/24/96

RECORD DRAWINGS
Revisions Drawn by R. GONZALES
Date 7/21/94
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPLIED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: MILES WELL NO. 1					
ELECTRICAL CONDUIT SCHEDULE					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					
DRAWING NO. W-E-8		MAP NO.		SHEET 16 OF 43	



POWER					
TAG	SIZE	CONDUCTOR	FROM	TO	REMARKS
P001 P002 P003 P004 P005 P006 P007 P008 P009 P010	4" 4" 3/4" 2" 2" 3/4" 3/4"	3#2 5KV, SHIELDED 1#2, GND 3#2 5KV, NON-SHIELDED 1#2, GND 3 #12, 1 #12 GND 3#2 5KV, NON-SHIELDED 1#2, GND 4 #2, 1 #2, GND 3#12, 1#12 GND 2#10, 1#10 GND	STATION XFMR SECONDARY MCU HEAT/COOL CTRL PANEL MCU XFMR DPA SECONDARY DPA VIBRATION ELEMENT	MCU MAIN DISCONNECT PUMP MOTOR EVAPORATIVE COOLER XFMR DPA PRIMARY PANEL DPA HEAT/COOL CONTROL PANEL DPA	NOT USED NOT USED NOT USED STATION POWER HVAC CONTROL

INSTRUMENTATION & CONTROL					
TAG	SIZE	CONDUCTOR	FROM	TO	REMARKS
C001 C002 C003	3/4" 1" 3/4"	2 #14 8 3C SHIELDED AND 1 2C SHIELDED 4 #14	HEAT/COOL CONTROL PANEL MOTOR RTD WITH TWSH FOR XE HEAT/COOL CONTROL PANEL	HEATER MCU EVAPORATIVE COOLER (FAN/PUMP)	

CONDUIT SCHEDULE

PANELBOARD "DPA"						
DESCRIPTION	CB	NO	Ø	NO	CB	DESCRIPTION
	20	1	A	2	15	
	15	3	B	4	15	
	15	5	C	6	20	
	20	7	A	8	15	
	20	9	B	10		
	20	11	C	12	3P	
	20	13	A	14	15	
	20	15	B	16		
	20	17	C	18	3P	
	20	19	A	20	15	
	20	21	B	22		
	15	23	C	24	3P	
	25	A	26	20		
	3P	27	B	28		SPACE
SPACE		29	C	30		SPACE
SPACE		31	A	32		SPACE
120/208V 3Ø 4/WIRE 50A MCB 32 CKT, SURFACE MOUNT NEMA 1 DOOR-IN-DOOR	N		G			

SCANNED BY LASON

26 4366.941794

LOMAS WELL NO. 1
PANELBOARD SCHEDULE

NOTES

- CONTRACTOR SHALL SUPPLY AND INSTALL 3 KV SURGE ARRESTORS IN SECONDARY OF TRANSFORMER.
- MATCH EXISTING PANELBOARD ASSIGNMENTS. PROVIDE NEW DIRECTORY.
- CONTRACTOR SHALL REMOVE FOR SALVAGE AND DELIVER TO THE OWNER THE EXISTING 15KVA TRANSFORMER.

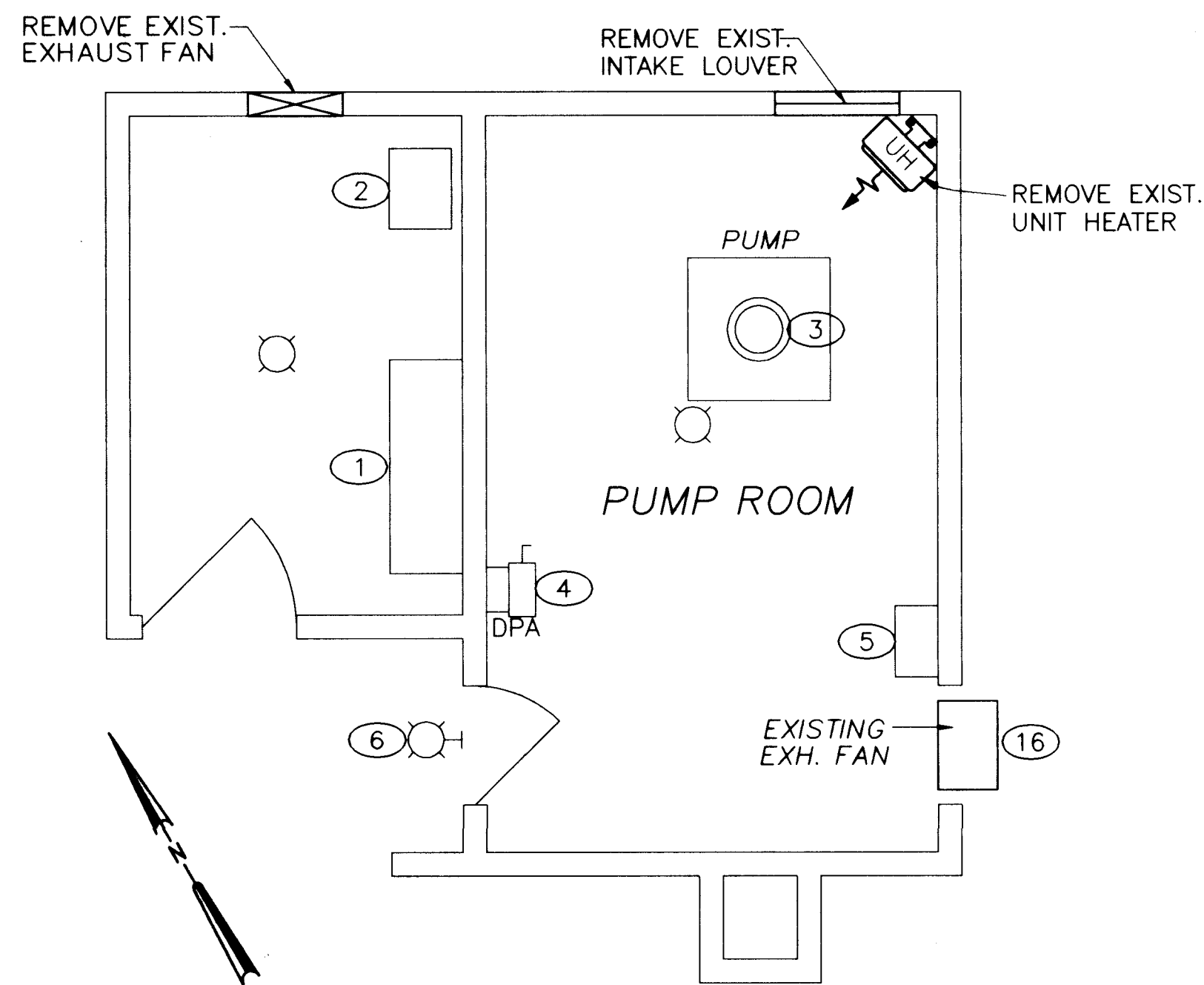
APPROVAL OF RECORD
DRAWINGS
PROJECT ENGINEER
DATE 7/22/94

RECORD DRAWINGS
R. GONZALES Date 7/21/94
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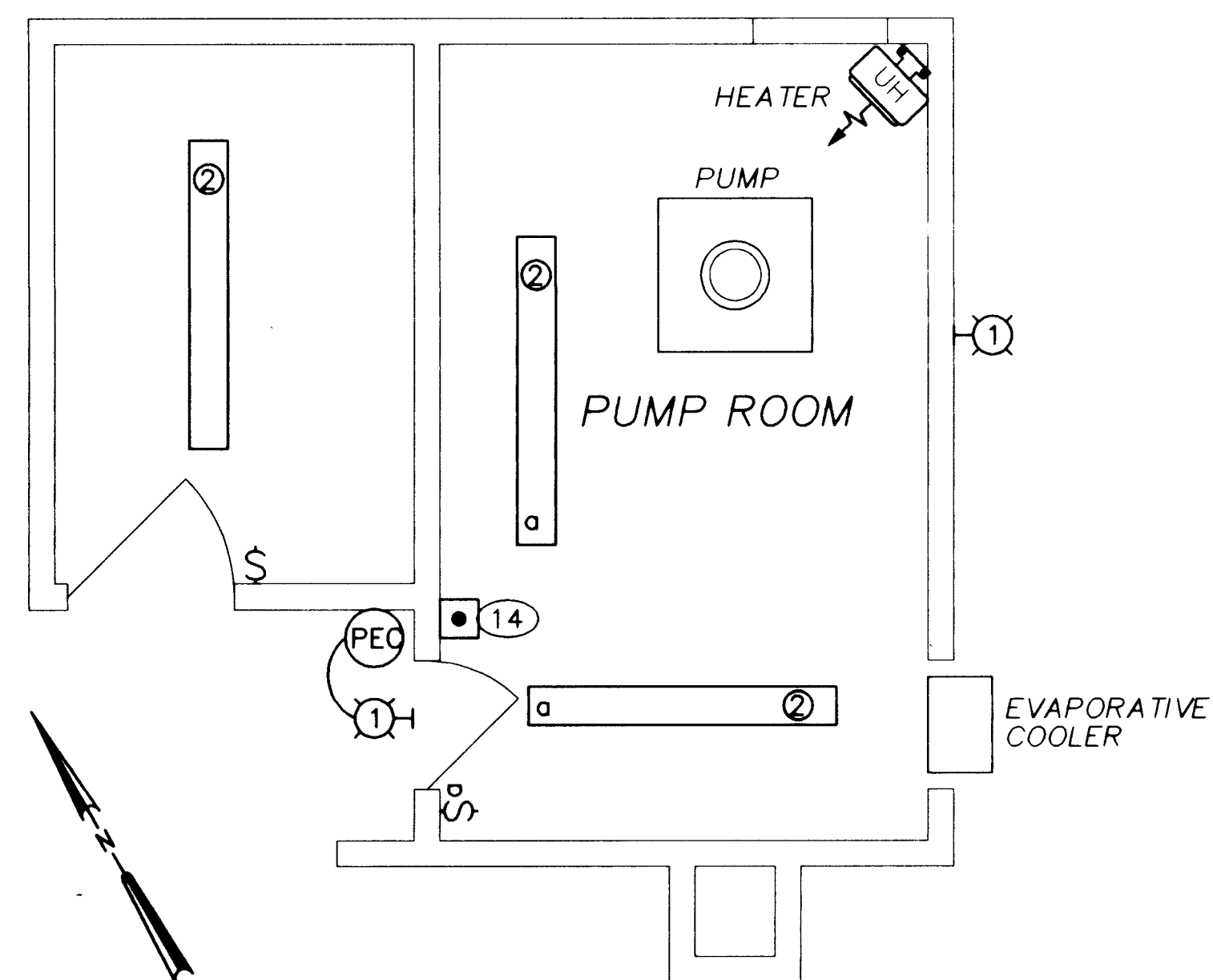
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: LOMAS WELL NO. 1 ONE-LINE AND PANELBOARD SCHEDULE					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					
DRAWING NO.	W-E-9	MAP NO.		SHEET 17 OF 43	

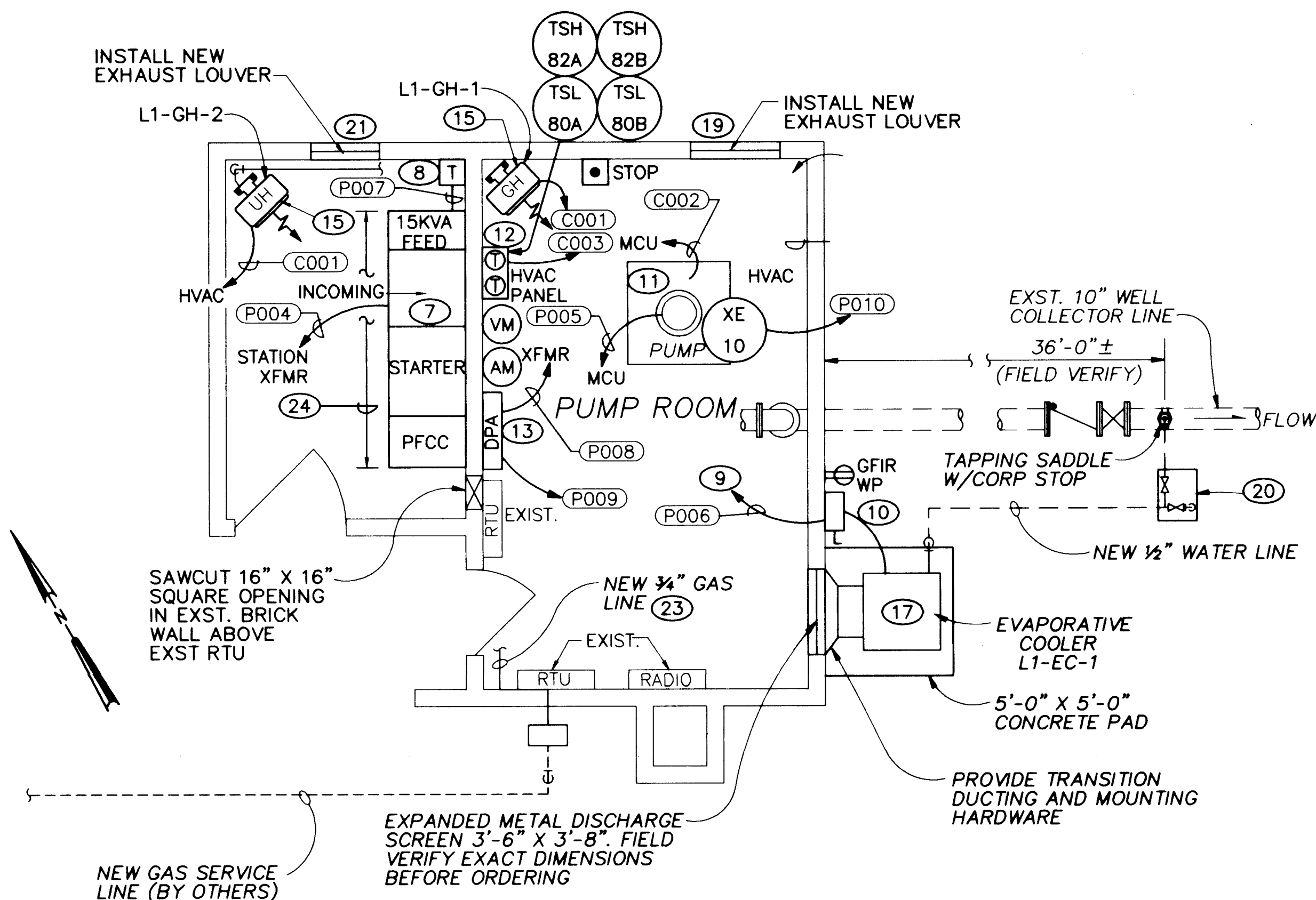




LOMAS WELL NO. 1 - REMOVAL PLAN
SCALE: 1/4" = 1'-0"



LOMAS WELL NO. 1 - LIGHTING PLAN
SCALE: 1/4" = 1'-0"



LOMAS WELL NO. 1-POWER & CONTROL
SCALE: 1/4" = 1'-0"

LUMINAIRE SCHEDULE	
TYPE	DESCRIPTION
1	70 WATT, HPS, 120VAC, VANDAL PROOF EXTERIOR LUMINAIRE. KEENE OR ENGINEER APPROVED EQUIVALENT.
2	8-FOOT, 4-TUBE, 120VAC, SURFACE MOUNT, FLUORESCENT LUMINAIRE WITH TURRET LAMP HOLDERS, APPETURED REFLECTOR, AND WIRE GUARD. METALUX OR ENGINEER APPROVED EQUIVALENT.

NOTES

- REMOVE EXISTING MCC.
- EXISTING 15KVA TRANSFORMER. DISCONNECT AND RELOCATE AS SHOWN ON THE DRAWING.
- REMOVE POWER AND CONTROL CONDUCTORS BACK TO SOURCE. REMOVE POWER AND CONTROL CONDUITS TO GRADE, THEN GROUT.
- REMOVE PANEL DPA AND DISCONNECT. REMOVE FEEDER CONDUCTORS BACK TO SOURCE. PRESERVE INTEGRITY OF EXISTING BRANCH CIRCUITS, GUTTER AND CONDUITS FOR RECONNECTION.
- REMOVE EXHAUST FAN STARTER. REMOVE FEEDER CONDUCTORS BACK TO PANEL DPA. PRESERVE CONDUIT FOR REUSE.
- REMOVE INTERIOR AND EXTERIOR LIGHTS. MAINTAIN CONTINUITY OF EXISTING POWER CIRCUITS FOR REUSE.
- INSTALL 4160V MCU. REFEED FROM EXISTING TRANSFORMER. SEE ONE-LINE. EXISTING TRANSFORMER (NOT SHOWN) IS NORTHEAST OF THE WELL BUILDING, APPROXIMATELY 15' FROM THE EDGE OF THE WEST WALL. VERIFY ACTUAL DISTANCE.
- POSITION NEW 30 KVA TRANSFORMER, AS REQUIRED.
- PENETRATE WALL AND EXTEND EXISTING POWER CONDUIT TO EVAPORATIVE COOLER STARTER/DISCONNECT.
- PROVIDE AND INSTALL EVAPORATIVE COOLER STARTER/DISCONNECT. RUN CONTROLS CONDUIT UP INSIDE WALL AND ACROSS CEILING TO HVAC PANEL. CONNECT CONVENIENCE OUTLET TO EXISTING RECEPTACLE CIRCUIT.
- RUN CONDUITS FOR POWER AND CONTROL TO CEILING, THEN ACROSS CEILING TO MCU. SUPPORT TO CEILING STRUCTURE USING UNISTRUT SUPPORTS.
- INSTALL THERMOSTATS AND HVAC CONTROL PANEL. SEE HEATING/COOLING SCHEMATIC.
- INSTALL PANEL DPA. RUN FEEDERS FROM RELOCATED 15 KVA TRANSFORMER. RECONNECT EXISTING CIRCUITS AND REROUTE BRANCH CIRCUIT CONDUITS AS REQUIRED.
- H-O-A FOR EXTERIOR LIGHT AND PHOTOCELL. REFERENCE SCHEMATIC.
- INSTALL NEW UNIT HEATER. SEE HEATER SCHEDULE IN THE SPECIFICATIONS. MOUNT UNIT HEATER PER DETAIL.
- REMOVE EXHAUST FAN.
- INSTALL NEW EVAPORATIVE COOLER (L1-EC-1). SEE EVAPORATIVE COOLER SCHEDULE IN THE SPECIFICATIONS. PLACE EVAPORATIVE COOLER ON FOUR LEGGED STAND (APPROXIMATELY 5'-6" HIGH), SEE DURANES PUMP STATION DWG. W-M-4, SIM. FIELD VERIFY EXACT DIMENSIONS BEFORE ORDERING.
- INSTALL EVAPORATIVE COOLER STARTER INSIDE HEAT/COOL CONTROL PANEL.
- INSTALL NEW FIXED EXHAUST LOUVER WITH GRAVITY RELIEF DAMPER (APPROXIMATE SIZE 5'-0" X 5'-0"). FIELD VERIFY EXACT DIMENSIONS BEFORE ORDERING.
- INSTALL NEW 1/2" WATER LINE 2'-6" BELOW GRADE, FROM NEW EVAPORATIVE COOLER (L1-EC-1) TO DOWNSTREAM SIDE OF WELL COLLECTOR LINE CHECK VALVE, AS SHOWN. PROVIDE 1/2" ISOLATION AND DRAIN VALVES, 1'-6" X 2'-0" VALVE BOX, TAPPING SADDLE, AND CORP STOP SIMILAR TO LOVE/EUBANK WELL NO. 4, DWG. W-E-4.
- INSTALL NEW FIXED EXHAUST LOUVER WITH GRAVITY RELIEF DAMPER (APPROXIMATE SIZE 1'-4" X 1'-4"). FIELD VERIFY EXACT DIMENSIONS BEFORE ORDERING.
- INSTALL LINTEL IN TOP OF OPENING L3X3X1/4 EACH SIDE KEYED INTO EXISTING BRICK MORTAR.
- ROUTE NEW 3/4" BLACK STEEL GAS LINE FROM THE NEW GAS METER TO EACH NEW UNIT HEATER. ATTACH TO WALL USING UNISTRUT SUPPORTS.
- INSTALL BOXES AS NEEDED IN ORDER TO EXTEND POWER AND CONTROL TO NEW MCC LOCATION. RECONNECT MCU AS SHOWN ON ONE-LINE DIAGRAM AND CONNECTION DIAGRAM.

VERIFIED
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

APPROVAL OF RECORD DRAWINGS
PROJECT ENGINEER
DATE 7/21/94

RECORD DRAWINGS
R. GONZALES
DATE 7/21/94
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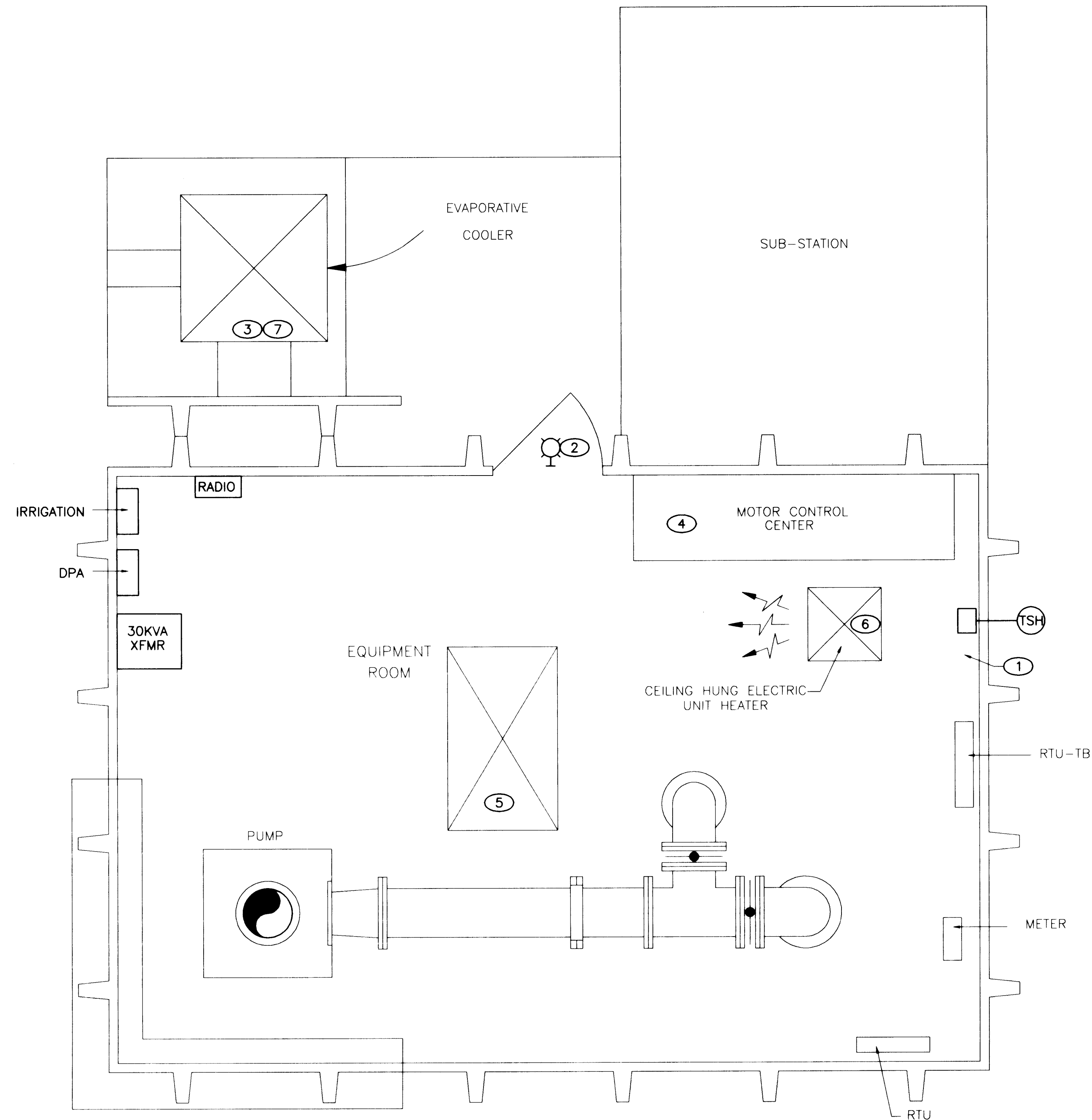
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: LOMAS WELL NO. 1 ELECTRICAL PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Waste Water		
Hydrology					
DRAWING NO. W-E-10		MAP NO.		SHEET 18 OF 43	

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

THESE DRAWINGS WERE MODIFIED USING AUTOCAD AND REPLOTTED FOR RECORD PURPOSES AND THEREFORE DO NOT HAVE THE ENGINEER'S STAMP OR OTHER SIGNATURES THAT APPEAR ON THE ORIGINAL CONTRACT DRAWINGS.

1. OWNER WILL SALVAGE DESIRED EQUIPMENT.

- ① REMOVE EMPTY CONDUIT AND J-BOXES. REMOVE CONDUIT TO GRADE AND GROUT.
- ② REMOVE EXTERIOR LIGHT. CIRCUITING WILL BE RE-USED FOR NEW LIGHT.
- ③ REMOVE "CONTROL" WIRING FOR EVAPORATIVE COOLER AND ASSOCIATED THERMOSTAT.
- ④ REMOVE MOTOR CONTROL UNIT (MCU).
- ⑤ REMOVE EXISTING 3'x5' PENTHOUSE.
- ⑥ REMOVE CEILING HUNG ELECTRIC UNIT HEATER. REMOVE POWER AND CONTROL CONDUCTORS TO SOURCE.
- ⑦ DISCONNECT POWER CONDUCTORS FOR EVAPORATIVE COOLER. RE-USE ON NEW COOLER.



SCANNED BY
RY LASON

26 4366.941994

APPROVAL OF RECORD
DRAWINGS
PROJECT ENGINEER *Arthur J. Street*
DATE *11/20/66*

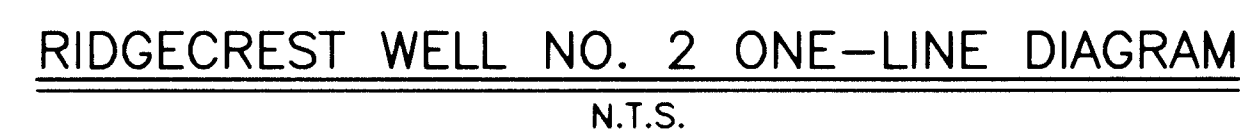
RECORD DRAWINGS

Revisions Drawn by R. GONZALES Date 7/21/94

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: RIDGECREST WELL NO. 2 DEMOLITION PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					
DRAWING NO.		MAP NO.		SHEET OF	
W-E-11		NO.		19 43	



INSTRUMENTATION & CONTROL					
TAG	SIZE	CONDUCTOR	FROM	TO	REMARKS
C001	3/4"	4 #14	HEAT/COOL CONTROL PANEL	EVAPORATIVE COOLER	
C002	3/4"	2 #12	LOUVER POSITION SWITCH	HEAT/COOL CONTROL PANEL	
C003	3/4"	2 #12	UNIT HEATER	HEAT/COOL CONTROL PANEL	

CONDUIT SCHEDULE

- ① CONTRACTOR WILL SUPPLY AND INSTALL 3KV SURGE ARRESTERS IN THE SECONDARY OF THE TRANSFORMER.
- ② ALL FUSES IN THE MCC COME WITH THE MCC (OFE).
- ③ CONTRACTOR WILL CLEAN EXISTING EQUIPMENT AND PROVIDE "65E" FUSES FOR THE PRIMARY FUSED SWITCH. IF 65E FUSES ALREADY EXIST, TURN NEW FUSES OVER TO THE OWNER REPRESENTATIVE.
- ④ PROVIDE 2 EACH 20 AMP CIRCUIT BREAKERS TO POWER THE HVAC CONTROLS AND THE MOTORIZED LOUVER. MATCH EXISTING EQUIPMENT; NO SUBSTITUTIONS.

④

[illegible]

RIDGECREST WELL NO. 2
PANELBOARD SCHEDULE
 N.T.S.

BAR IS ONE INCH
ORIGINAL DRAWING
0 
IF NOT ONE INCH
THIS SHEET, ADJUST
SCALES ACCORDING

SCANNED BY
BY LASON

26 4366.942094

APPROVAL OF RECORD
DRAWINGS
PROJECT ENGINEER: *Arthur J. Howard*
DATE: *11/24/94*

RECORD DRAWINGS

Revisions Drawn by R. GONZALES Date 7/21/94

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: RIDGECREST WELL NO. 2

ONE—LINE, PANELBOARD
AND CONDUIT SCHEDULE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					

DRAWING

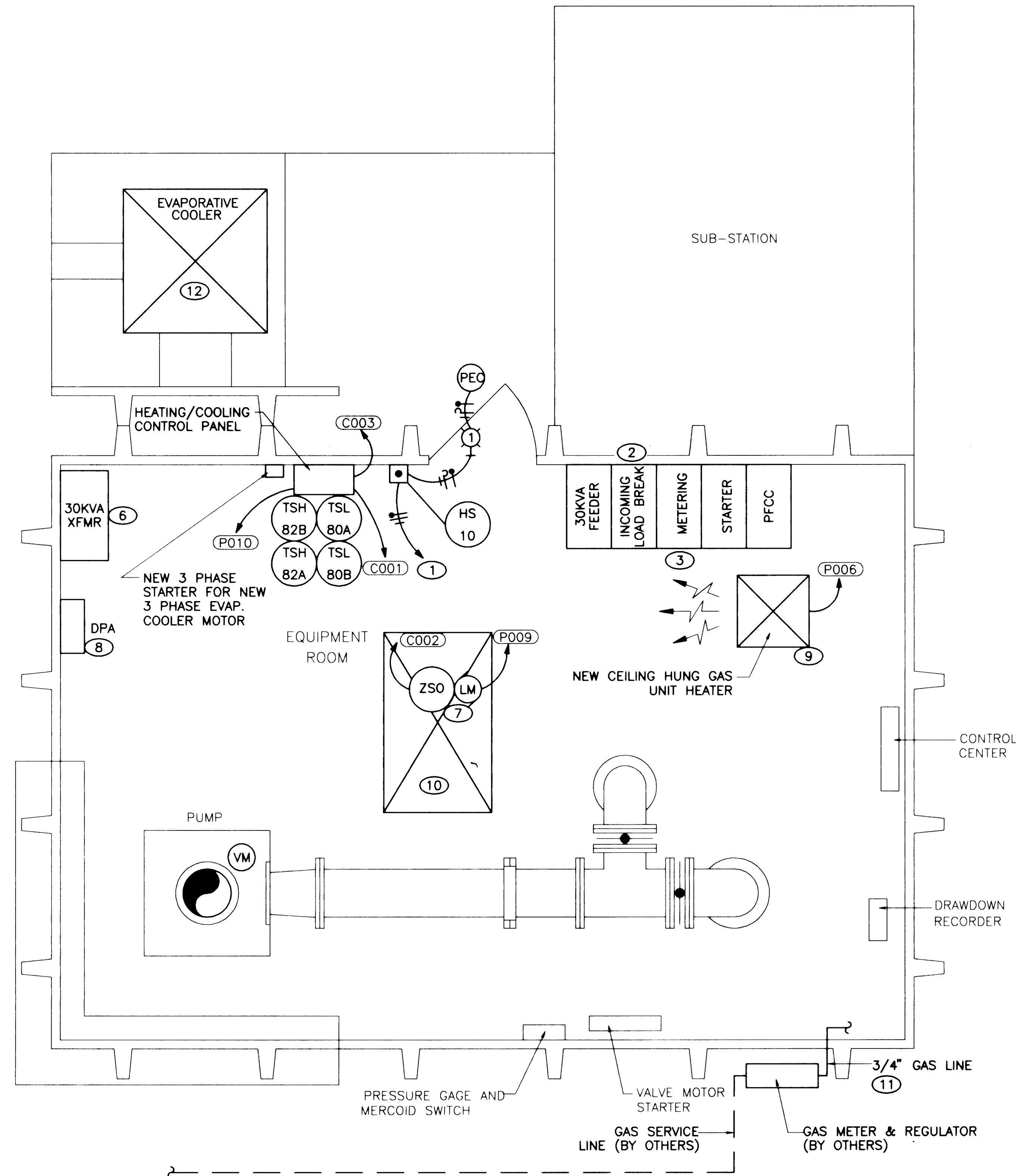
NO. W—E—12

MAP

NO.

SHEET OF

20 43



NOTES

- EXTERIOR LUMINAIRE CONTROLLED THROUGH H-O-A. REFERENCE SCHEMATIC.
- CONNECT MCC AND ASSOCIATED CONTROLS AS SHOWN ON THE ONE-LINED DIAGRAM AND THE WELL PUMP CONNECTION DIAGRAM.
- RE-CONNECT PUMP MOTOR AS SHOWN ON SCHEMATIC.
- NEW EVAPORATIVE COOLER (R2-EC-1), LOUVER, AND EVAPORATIVE COOLER PUMP. CONNECT AS SHOWN ON SCHEMATIC.
- RE-FEED EXISTING 30KVA TRANSFORMER AS SHOWN ON THE ONE-LINE.
- LOUVER IS MOUNTED ON CEILING.
- PROVIDE AND INSTALL NEW LOCKABLE COVER FOR DPA.
- INSTALL NEW GAS UNIT HEATER (R2-GH-1). INSTALL PER DETAILS 3 & 4.
W-M-5 W-M-5
- INSTALL NEW 30"x72"x2' HIGH PENTHOUSE LOUVER W/GRAVITY RELIEF DAMPER AND PREFABRICATED CURB.
- ROUTE 3/4" BLACK STEEL GASLINE TO NEW HEATER. ATTACH PIPING TO WALL USING UNISTRUT SUPPORTS.
- CONNECT EVAPORATIVE COOLER USING EXISTING CONDUCTORS.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION
1	70 WATT HPS EXTERIOR LUMINAIRE WITH PHOTOCELL 120VAC, VANDELPROOF. KEENE OR ENGINEER APPROVED EQUIVALENT.

RIDGECREST NO. 2 - POWER AND CONTROL PLAN
P=1'-0"

APPROVAL OF RECORD DRAWINGS
PROJECT ENGINEER
DATE 11/14/94

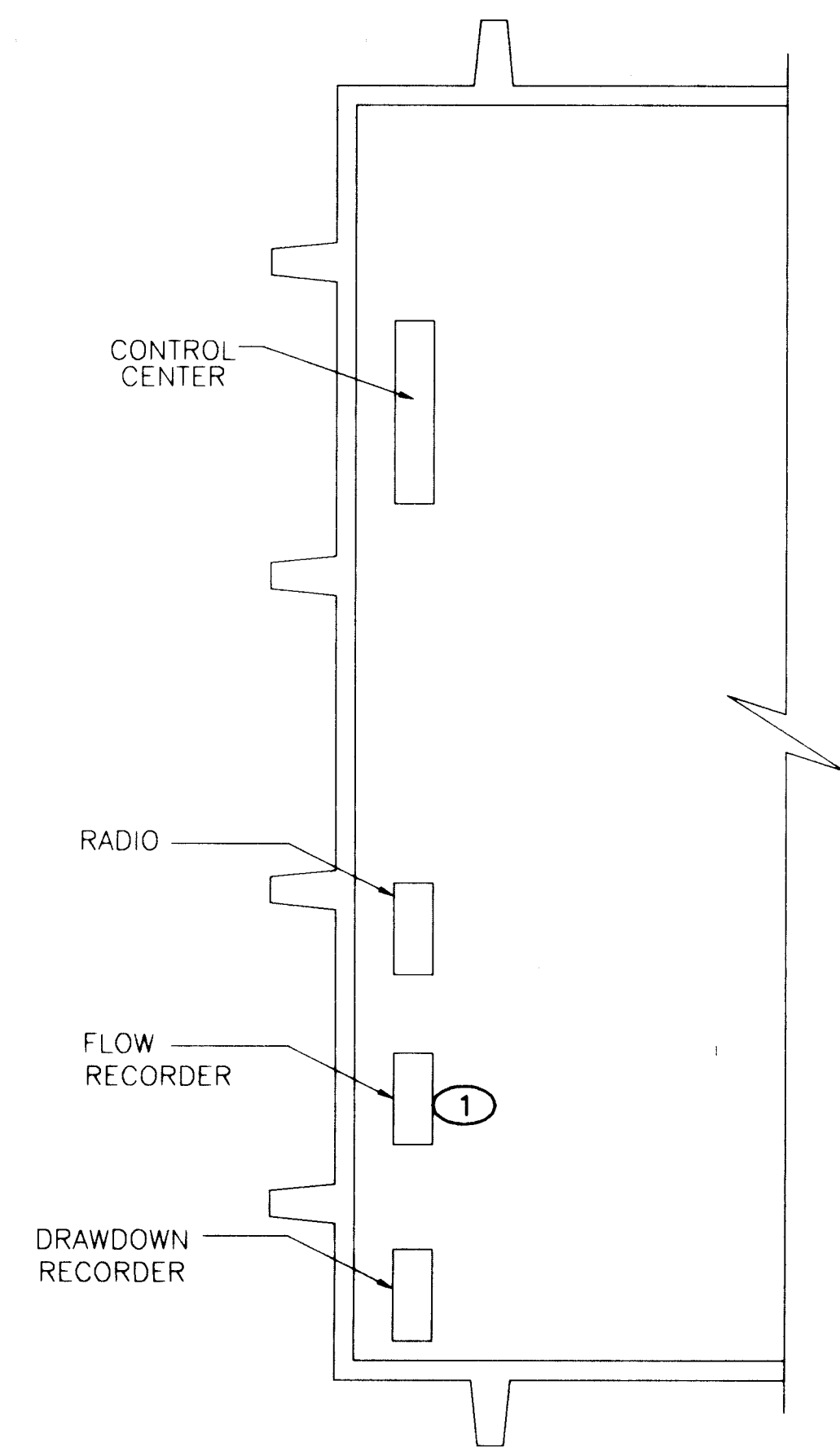
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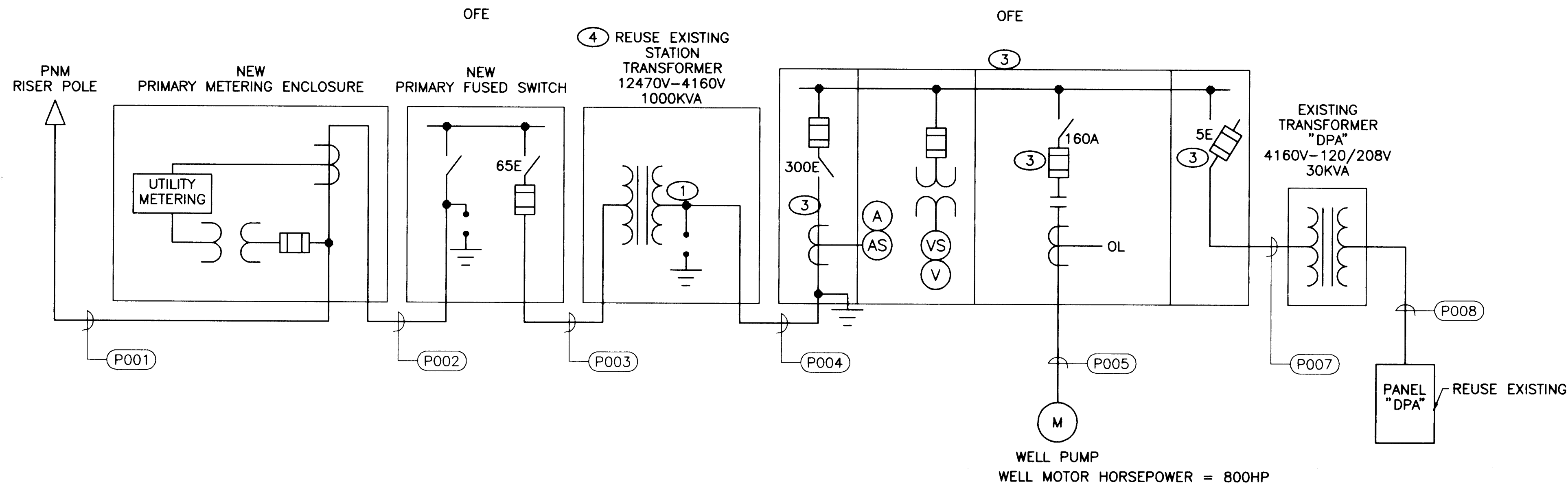
RECORD DRAWINGS

Revisions Drawn by: R. GONZALES Date: 7/21/94
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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: RIDGECREST WELL NO. 2 POWER AND CONTROL PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					
DESIGNED BY	APC	DATE	5-93		
DRAWN BY	JKH/RLA	DATE	5-13-93		
CHECKED BY	SES	DATE	5-93		
DRAWING NO. W-E-13			MAP NO. SHEET 21 OF 43		





RIDGECREST WELL NO. 3 AND WELL NO. 4 ONE-LINE DIAGRAM
N.T.S.

POWER					
TAG	SIZE	CONDUCTOR	FROM	TO	REMARKS
P001	4"	PNM	PNM RISER POLE	METERING ENCLOSURE	EXISTING CONDUITS AND CONDUCTORS TO BE RE-USED; CONNECT TO NEW METERING ENCLOSURE. ALL PRIMARY UNDERGROUND TO BE CONCRETE ENCASED
P002	4"	3#2 15KV, 1#2, GND	METERING ENCLOSURE	PRIMARY FUSED SWITCH	
P003	4"	3#2 15KV, 1#2, GND	PRIMARY FUSED SWITCH	STATION XFMR PRIMARY	
P004	4"	3#2/0 5KV, SHIELDED 1#2/0, GND	STATION XFMR SECONDARY	MCU MAIN DISCONNECT	
P005	4"	3#2/0 5KV, NON-SHIELDED 1#2/0, GND	MCU	PUMP MOTOR	STATION POWER LOUVER MOTOR POWER, HVAC CONTROL
P006	3/4"	3#12, 1#12, GND	DPA	HEATER	
P007	2"	3#2 5KV, NON-SHIELDED 1#2, GND	MCU	XFMR DPA PRIMARY	
P008	2"	4#1, 1#1, GND	XFMR DPA SECONDARY	PANEL DPA	
P009	3/4"	2#12, 1#12 GND	HEAT/COOL CONTROL PANEL	LOUVER MOTOR	
P010	3/4"	4#12, 1#12, GND	DPA	HEAT/COOL CONTROL PANEL	
P011	3/4"	2#12, 1#12, GND	DPA	GAS HEATER FAN	

INSTRUMENTATION & CONTROL					
TAG	SIZE	CONDUCTOR	FROM	TO	REMARKS
C001	3/4"	4 #14	HEAT/COOL CONTROL PANEL	EVAPORATIVE COOLER	
C002	3/4"	2 #14	POSITION SWITCH (ZSO)	HEAT/COOL CONTROL PANEL	
C003	3/4"	2 #14	HEAT/COOL CONTROL PANEL	GAS HEATER	

CONDUIT SCHEDULE

NOTES

- CONTRACTOR SHALL SUPPLY AND INSTALL 3 KV SURGE ARRESTERS IN SECONDARY OF TRANSFORMER.
- POWER EVAPORATIVE COOLER FROM SPARE LOCATIONS. UPDATE PANELBOARD SCHEDULE.
- ALL FUSES IN THE MCC COME WITH THE MCC (OFE).
- CLEAN TRANSFORMER. VACUUM THOROUGHLY. WIPE DOWN INSULATORS WITH WATER AND CLEAN CLOTH.

PANELBOARD "DPA"						
"USE EXISTING"						
DESCRIPTION	CB	NO	Ø	NO	CB	DESCRIPTION
		1	A	2		
		3	B	4		
		5	C	6		
		7	A	8		
		9	B	10		
		11	C	12		
		13	A	14		
		15	B	16		
		17	C	18		
		19	A	20		
		21	B	22		
		23	C	24		
		25	A	26		
		27	B	28		
		29	C	30		
		31	A	32		
	N				G	

RIDGECREST WELL NO. 3 AND 4
PANELBOARD SCHEDULE
N.T.S.

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

APPROVAL OF RECORD DRAWINGS
PROJECT ENGINEER
DATE: 11/22/94

RECORD DRAWINGS
Revisions Drawn by: R. GONZALES Date: 7/21/94
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPAILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.



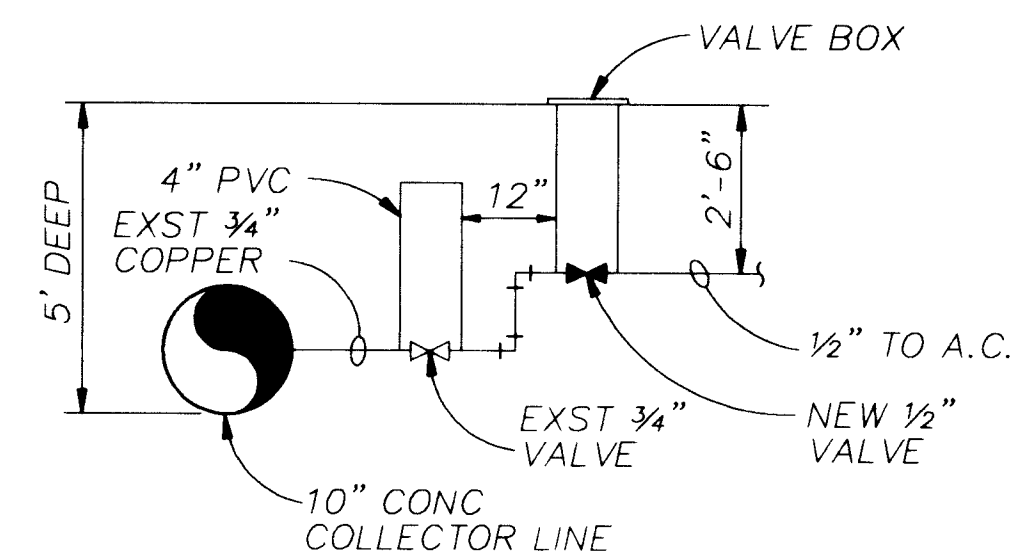
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: RIDGECREST WELL NO. 3 AND 4
ONE-LINE, PANELBOARD
AND CONDUIT SCHEDULE

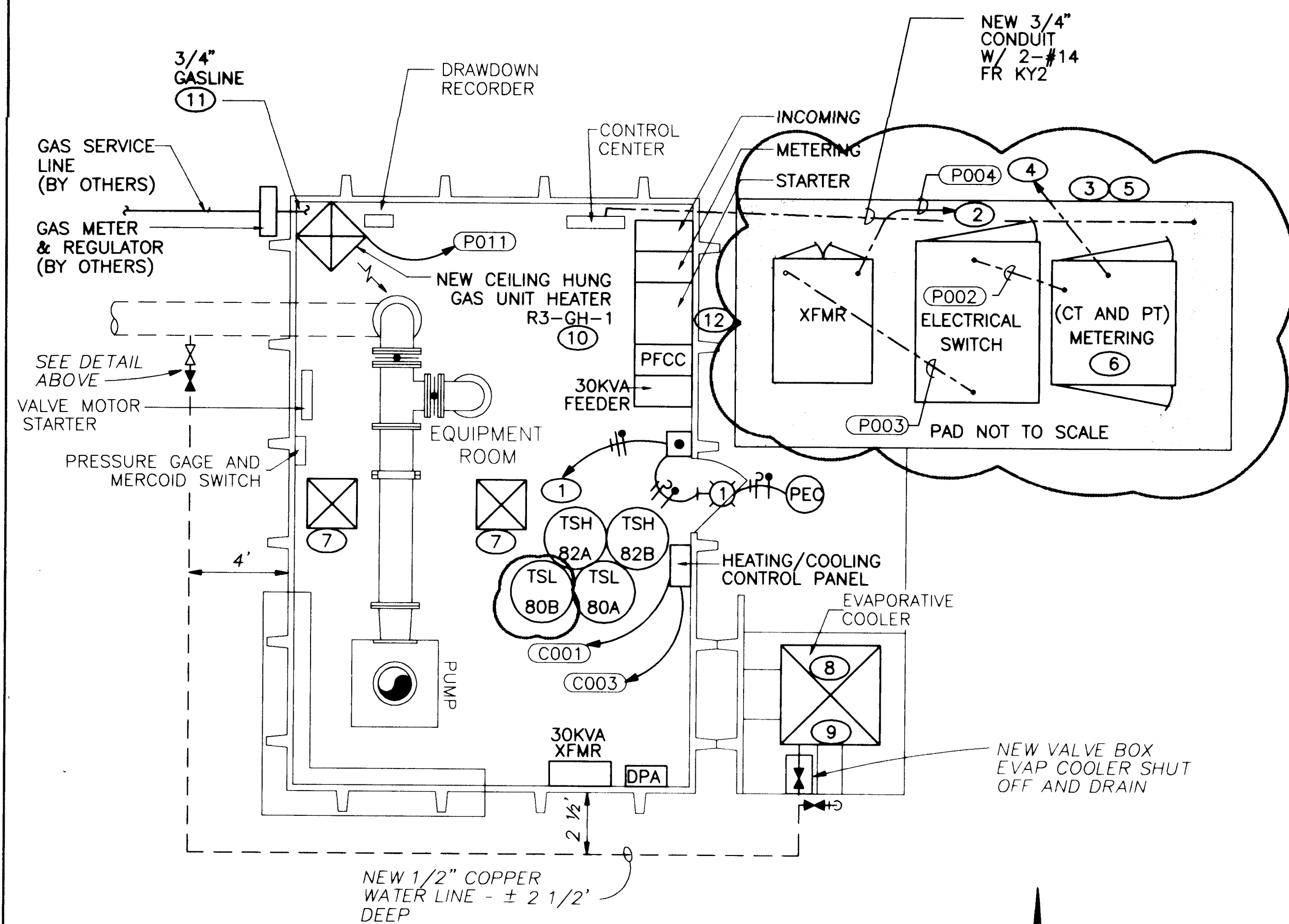
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					

DESIGNED BY APC DATE 6-93
DRAWN BY: RJA/JKH DATE 7-08-94
CHECKED BY: SES DATE 6-93

DRAWING NO. W-E-15 MAP NO. SHEET 23 OF 43

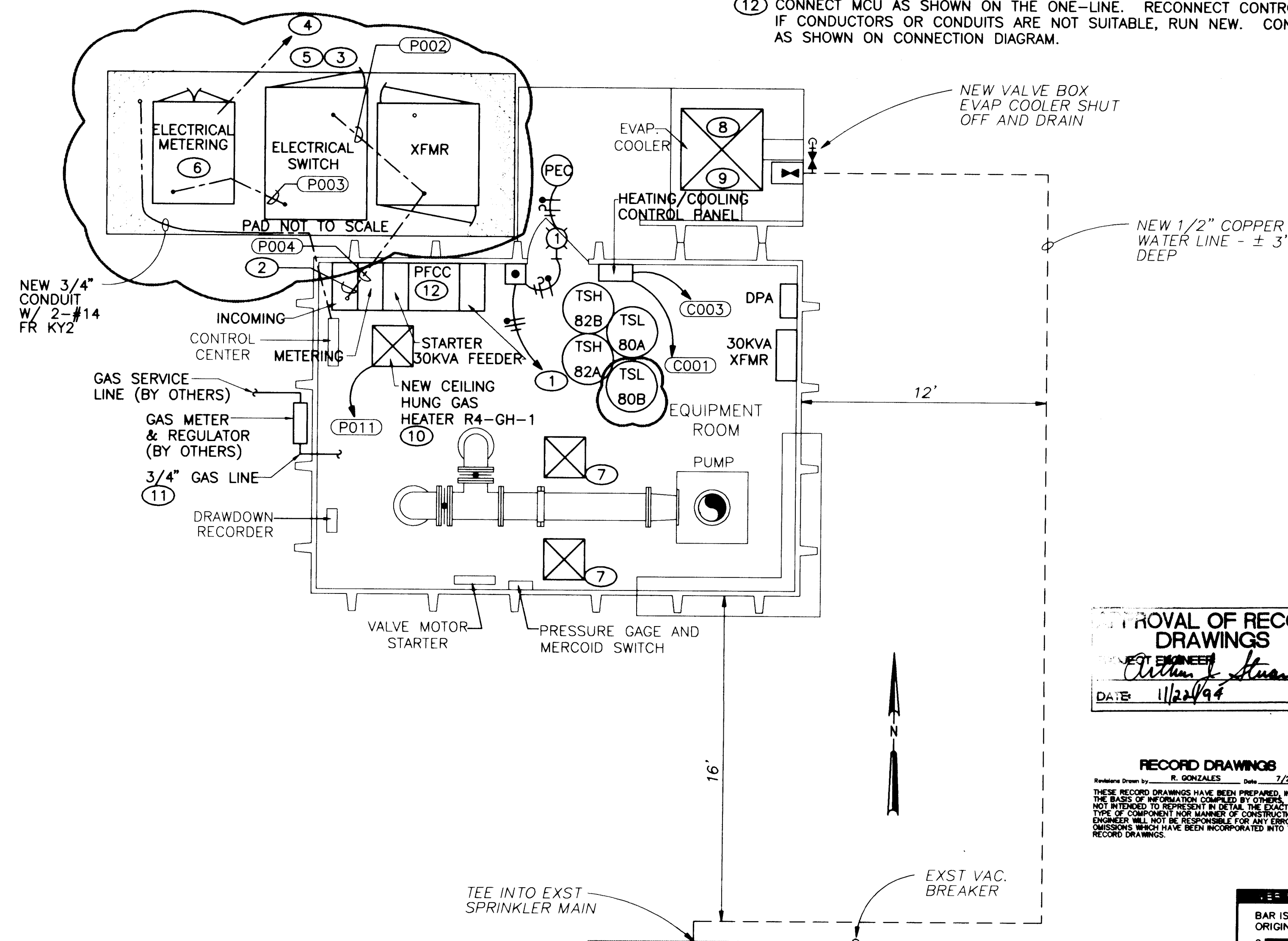


PROFILE



RIDGECREST NO. 3 - POWER AND CONTROL PLAN
1/4" = 1'

LUMINAIRE SCHEDULE	
TYPE	DESCRIPTION
1	70 WATT HPS EXTERIOR LUMINAIRE WITH PHOTOCELL 120VAC, VANDELPROOF. KEENE OR ENGINEER APPROVED EQUIVALENT.



RIDGECREST NO. 4 - POWER AND CONTROL PLAN
1/4" = 1'

LUMINAIRE SCHEDULE	
TYPE	DESCRIPTION
1	70 WATT HPS EXTERIOR LUMINAIRE WITH PHOTOCELL 120VAC, VANDELPROOF. KEENE OR ENGINEER APPROVED EQUIVALENT.

NOTES

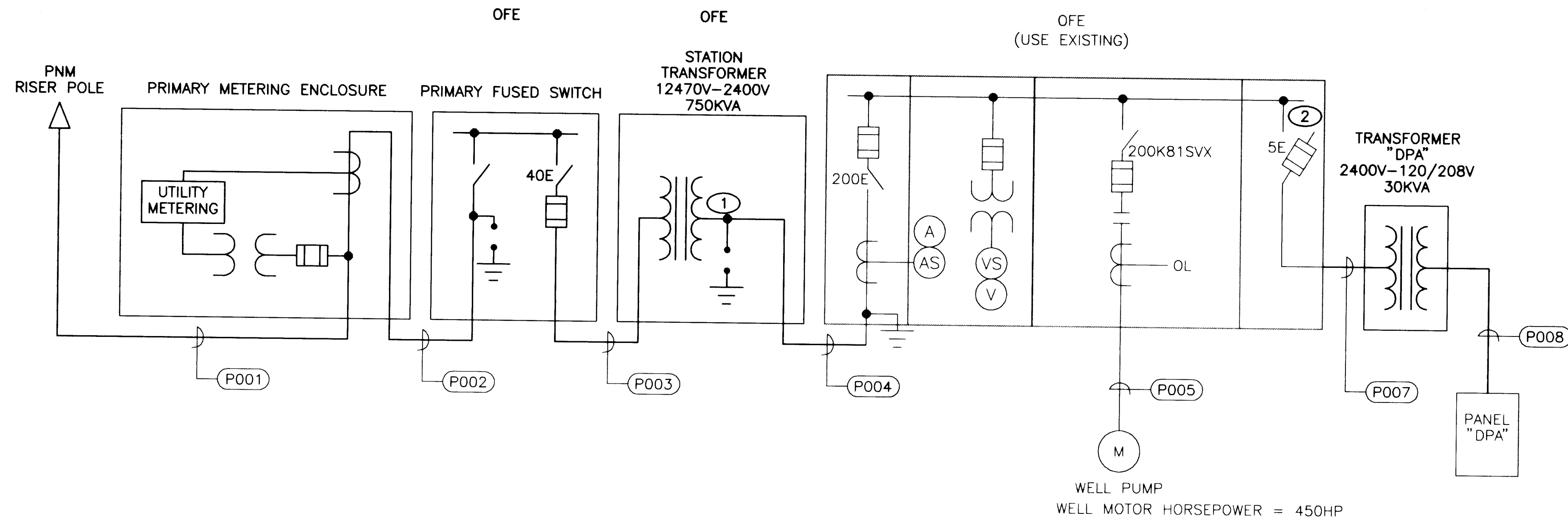
- USE EXISTING CIRCUIT FOR EXTERIOR LIGHT. WIRE THROUGH H-0-A. REFERENCE SCHEMATIC.
- INSTALL NEW CONDUIT AND CONDUCTORS FROM NEW TRANSFORMER TO NEW MOTOR CONTROL UNIT. BREAK OUT AND REPAIR FLOOR AS NECESSARY.
- PROVIDE CONCRETE PAD PER PNM DS-7-17.0 FOR ELECTRICAL SERVICE EQUIPMENT.
- NEW PRIMARY FEEDER CONDUIT AND CONDUCTORS. CONNECT NEW CONDUCTORS TO NEW METERING ENCLOSURE.
- CONCRETE ENCASE PVC SCHEDULE-40 WITH #2 COPPER GROUND CONDUCTOR BONDED TO GROUND GRID AT EACH END. 42" MINIMUM BURIAL. PVC COATED RMC SWEEPS AND BENDS, TYPICAL ALL DUCT BANK.
- PROVIDE AND INSTALL CT AND PT ENCLOSURE PER PNM DS-19-79.0 AND METER ENCLOSURE PER PNM DS-19-82.0. LOCATE OVER EXISTING PRIMARY FEEDER CONDUIT.
- INSTALL TWO NEW 2'x2'x2' HIGH PENTHOUSE WITH GRAVITY RELIEF DAMPER AND PREFABRICATED CURBS.
- INSTALL NEW EVAPORATIVE COOLERS (R-EC-3 & -4).
- RE-CONNECT EVAPORATIVE COOLER. USE EXISTING CONDUCTORS.
- INSTALL NEW GAS UNIT HEATERS (RE-GH-1 & R4-GH-2). INSTALL PER DETAILS 3 & 4 W-M-5 W-M-5
- ROUTE 3/4" BLACK STEEL GASLINE TO GAS HEATER. ATTACH PIPING TO WALL USING UNISTRUT SUPPORTS.
- CONNECT MCU AS SHOWN ON THE ONE-LINE. RECONNECT CONTROLS. IF CONDUCTORS OR CONDUITS ARE NOT SUITABLE, RUN NEW. CONNECT AS SHOWN ON CONNECTION DIAGRAM.

APPROVAL OF RECORD DRAWINGS
DATE 1/22/94

RECORD DRAWINGS
R. GONZALES
DATE 7/21/94
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OR COMPONENT FOR ANY PART OF THE PROJECT. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: RIDGECREST WELL NO. 3 AND NO. 4 POWER AND CONTROL PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					
DRAWING NO.	W-E-16	MAP NO.		SHEET	OF
				24	43



NOTES

- CONTRACTOR WILL SUPPLY AND INSTALL 3KV SURGE ARRESTORS IN SECONDARY OF TRANSFORMER.
- CONTRACTOR WILL REPLACE FUSES WITH 5E. IF EXISTING FUSES ARE 5E, TURN NEW FUSES OVER TO OWNER.

POWER					
TAG	SIZE	CONDUCTOR	FROM	TO	REMARKS
P001	4"	PNM	PNM RISER POLE	METERING ENCLOSURE	CONTRACTOR TO RUN CONDUIT AND BUILD RISER TO PNM SPECS. ALL PRIMARY UNDERGROUND TO BE CONCRETE ENCASED
P002	4"	3#2 15KV, 1#2, GND	METERING ENCLOSURE	PRIMARY FUSED SWITCH	
P003	4"	3#2 15KV, 1#2, GND	PRIMARY FUSED SWITCH	STATION XFMR PRIMARY	
P004	4"	3#2 5KV, SHIELDED 1#2, GND	STATION XFMR SECONDARY	MCU MAIN DISCONNECT	STATION POWER
P005	4"	3#2 5KV, NON-SHIELDED 1#2, GND	MCU	PUMP MOTOR	
P006	3/4"	3#12, 1#12, GND	DPA	EVAPORATIVE COOLER STARTER	
P007	2"	3#2 5KV, NON-SHIELDED 1#2, GND	MCU	XFMR DPA PRIMARY	START/STOP COMMAND
P008	2"	4 #2, 1 #2, GND	XFMR DPA SECONDARY	PANEL DPA	
P009	3/4"	2 #12, 1 #12, GND	MOTOR OILER SOLENOID	MCU STARTER AUX.	
P010	3/4"	2 #12, 1 #12, GND	MOTOR CONTROL CENTER	RTB (RUN CONTACT)	HVAC CONTROL
P011	3/4" FLEX	3 #12, 1 #12, GND	EVAPORATIVE COOLER DISCONNECT	EVAPORATIVE COOLER	
P012	3/4"	3 #12, 1 #12, GND	EVAPORATIVE COOLER STARTER	EVAPORATIVE COOLER DISCONNECT	
P013	3/4"	2 #12, 1 #12, GND	HEAT/COOL CTRL PANEL	DPA	

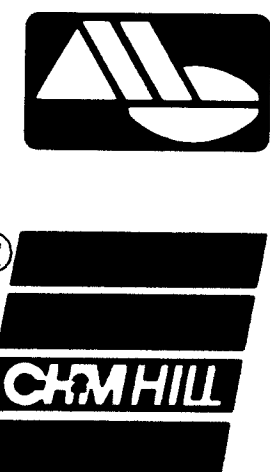
INSTRUMENTATION & CONTROL					
TAG	SIZE	CONDUCTOR	FROM	TO	REMARKS
C001	3/4"	4 #14	HEAT/COOL CONTROL PANEL	EVAPORATIVE COOLER STARTER	

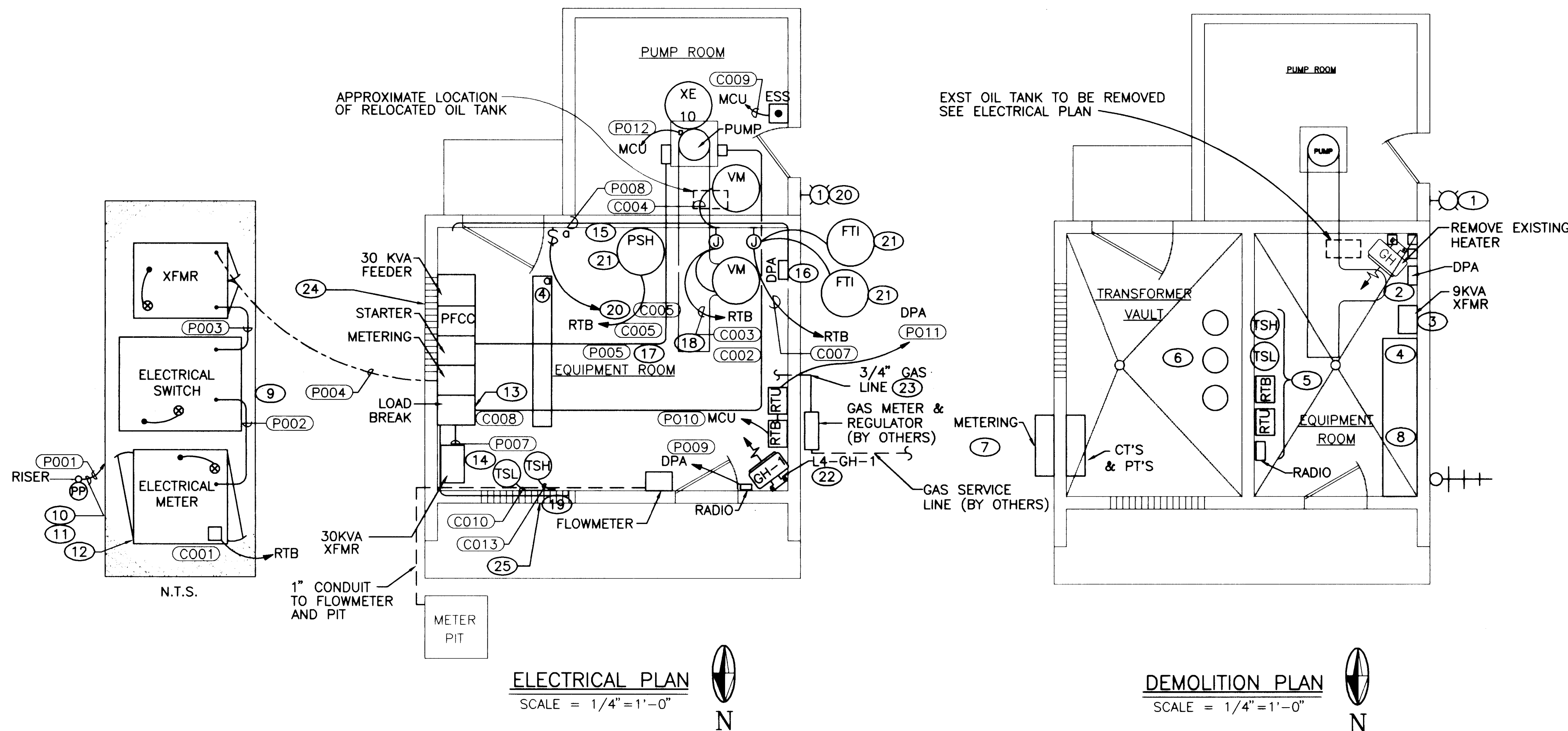
CONDUIT SCHEDULE

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: VOL. ANDIA WELL NO. 3 ONE-LINE DIAGRAM AND CONDUIT SCHEDULE					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					
DRAWING NO. W-E-18		MAP NO.		SHEET 26 OF 43	

APPROVAL OF RECORD
DRAWINGS
PROJECT ENGINEER
DATE 11/22/94

RECORD DRAWINGS
R. GONZALES
Date 7/21/94
THESE RECORD DRAWINGS HAVE BEEN PREPARED IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.





GENERAL NOTES

1. OWNER WILL SALVAGE ALL DESIRED EQUIPMENT.

NOTES

- REMOVE EXTERIOR LIGHT. CIRCUIT WILL BE REUSED FOR NEW LIGHT.
- REMOVE DPA AND ASSOCIATED FEEDER FROM THE 9KVA TRANSFORMER. A NEW PANEL WILL BE INSTALLED.
- REMOVE THE 9KVA TRANSFORMER AND ASSOCIATED FEEDER FROM THE MCC. A NEW TRANSFORMER WILL BE INSTALLED.
- CONTRACTOR WILL SUPPLY NEW FUSES PER THE ONE-LINE. REMOVE EXISTING FUSES AND TURN THEM OVER TO THE OWNER.
- REMOVE ALL EQUIPMENT ON THIS WALL. EQUIPMENT WILL BE RELOCATED. REMOVE CONDUCTORS BACK TO SOURCE. REMOVE CONDUIT STUB-UPS FLUSH WITH FINISHED FLOOR. GROUT OPENINGS.
- REMOVE "PIG PEN" IN TRANSFORMER VAULT. ALL EQUIPMENT IN THIS AREA TO BE REMOVED.
- REMOVE METERING ENCLOSURE.
- REMOVE ENTIRE MOTOR CONTROL UNIT (MCU). EQUIPMENT WILL BE RELOCATED.
- PROVIDE CONCRETE PAD PER PNM DS-7-17 FOR ELECTRICAL SERVICE EQUIPMENT.
- CONCRETE ENCASE PVC SCHEDULE 40 WITH #2 COPPER GROUND CONDUCTOR BONDED TO GROUND GRID AT SWITCH GEAR AND TIED TO MCC GROUND.
- CONTRACTOR WILL SUPPLY TRENCH, CONDUIT, AND BACKFILL FROM RISER TO THE ELECTRICAL METER.
- PROVIDE AND INSTALL METERING PT/CT ENCLOSURE PER PNM DS-19-79.0 AND METER AND METER ENCLOSURE PER PNM DS-19-82.0.
- PROVIDE HOUSEKEEPING PAD. RELOCATE MCC TO INDICATED LOCATION. FEED FROM NEW TRANSFORMER. SEE PAD DETAIL DRAWING W-E-27.
- INSTALL 30KVA TRANSFORMER PER ONE-LINE.
- RUN CONDUIT FOR PANEL DPA UP TO CEILING, THEN ALONG CEILING AT WALLS TO PANEL.
- INSTALL PANEL DPA. REROUTE EXISTING BRANCH CIRCUIT CONDUITS AS NECESSARY TO NEW ENCLOSURE.
- INSTALL NEW PUMP POWER CONDUIT OVERHEAD. ATTACH TO CEILING STRUCTURE WITH UNISTRUT SUPPORTS.
- RUN NEW PUMP PROTECTION CIRCUITS AND CONTROL CONDUIT OVERHEAD. ATTACH TO CEILING STRUCTURE WITH UNISTRUT SUPPORTS.
- RUN CONDUIT UP TO CEILING, THEN ALONG WALL TO MCU.
- CONNECT TO EXISTING LIGHT AND RECEPTACLE CIRCUIT.
- EXISTING INSTRUMENT. RUN NEW CONDUIT UP WALL AND ALONG CEILING TO RELOCATED RTB. INSTALL NEW CONDUCTORS, SEE CONDUIT SCHEDULE. RECONNECT.
- INSTALL NEW GAS UNIT HEATER (L4-GH-1). INSTALL PER DETAILS W-M-5 & W-M-5.
- ROUTE 3/4" BLACK STEEL GASLINE TO NEW HEATER. ATTACH PIPING TO WALL USING UNISTRUT SUPPORTS.
- REMOVE EXISTING EXPANDED METAL SCREEN AND CLOSE APPROXIMATELY 4'-0" x 4'-0" OPENING WITH MASONRY TO MATCH EXISTING.
- REMOVE EXISTING SCREEN (APPROX. SIZE 4'-0" x 4'-0") AND INSTALL NEW FIXED EXHAUST LOUVER WITH GRAVITY RELIEF DAMPER (2'-0" x 2'-0"). FILL IN OPENING AROUND NEW LOUVER WITH MATCHING BUILDING MASONRY.

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

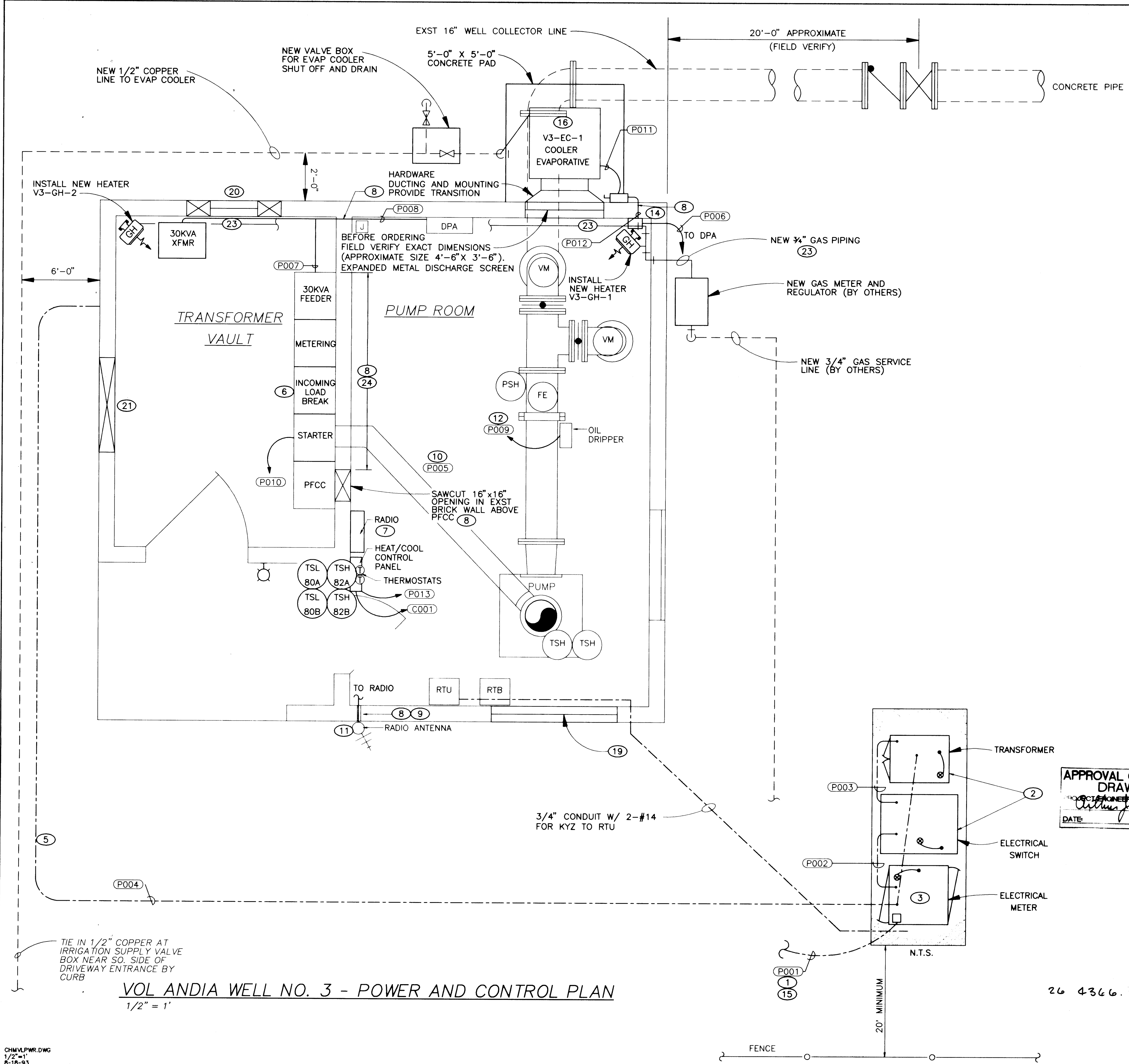
APPROVAL OF RECORD DRAWINGS
PROJECT ENGINEER
DATE 11/2/94

26 4366.942894

RECORD DRAWINGS
R. GONZALES
DATE 7/21/94
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO BE PRESENTED IN DETAIL. THE EXACT LOCATION, TYPE OF CONSTRUCTION, AND MATERIALS OF CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND INCORPORATING INTO THE RECORD DRAWINGS.



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: LEYENDECKER NO. 4 DEMOLITION AND ELECTRICAL PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					
DRAWING NO. W-E-20		MAP NO.		SHEET 28 OF 43	



NOTES

- 1 CONCRETE ENCASE PVC SCHEDULE 40 WITH #2 COPPER GROUND CONDUCTOR BONDED TO GROUND GRID AT TRANSFORMER PAD AND BONDED TO GROUND AT MCC. TYPICAL ALL DUCT BANK 42" MINIMUM BURIAL. PVC COATED RMC SWEEPS AND BENDS.
- 2 EQUIPMENT PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.
- 3 PROVIDE AND INSTALL METERING CT AND PT ENCLOSURE PER PNM DS-19-79.0 AND METER ENCLOSURE PER PNM DS-19-82.0.
- 4 DO NOT DISTURB TREES WHEN TRENCHING FOR FEEDER CONDUIT. STAY CLEAR OF TREE FALL LINES.
- 5 INTERCEPT EXISTING FEEDER CONDUIT AND PULL NEW CONDUCTORS TO THE MCU FROM THE SUBSTATION AS SHOWN ON THE ONE-LINE.
- 6 POSITION MOTOR CONTROL UNIT SO THAT EXISTING FEEDER CAN BE USED.
- 7 RELOCATE RADIO AS SHOWN. ANTENNA CABLE WILL BE SECURED TO CEILING OUT TO ANTENNA.
- 8 CORE DRILL WALL. INSTALL APPROPRIATE CONDUIT. FILL AREA AROUND CONDUIT WITH SILICONE COMPOUND.
- 9 INSTALL ANTENNA CABLE. FILL BOTH ENDS OF CONDUIT AROUND CABLE WITH SILICONE COMPOUND.
- 10 POWER AND ASSOCIATED PUMP CONTROL CONDUCTORS WILL BE RUN OVERHEAD. SECURE CONDUIT TO CEILING STRUCTURE USING UNISTRUT SUPPORTS.
- 11 RELOCATE RADIO ANTENNA AS SHOWN.
- 12 RECONNECT OIL DRIPPER TO MCU STARTER AUXILIARY.
- 13 RECONNECT THE MCU (RUN CONTACT) TO RTB.
- 14 INSTALL A/C STARTER IN NEMA1 BOX AND MOUNT NEXT TO DPA. NAMEPLATE "A/C STARTER".
- 15 CONTRACTOR WILL SUPPLY TRENCH, CONDUIT AND BACKFILL FROM RISER TO PRIMARY SIDE OF TRANSFORMER.
- 16 INSTALL NEW EVAPORATIVE COOLER (V3-EC-1) ON FOUR LEGGED STAND (APPROXIMATELY 5'-0" HIGH). SEE DURANES PUMP STATION, DWG W-M-4, SIM. FIELD VERIFY EXACT DIMENSIONS BEFORE ORDERING.
- 18 INSTALL 1/2" WATERLINE, 2'-6" BELOW GRADE, FROM THE NEW EVAPORATIVE COOLER AS SHOWN. PROVIDE 1/2" ISOLATION AND DRAIN BALL VALVES, 1'-6" X 2'-0" VALVE BOX, SIMILAR TO LOVE/EUBANK WELL NO. 4, DWG W-E-4.
- 19 INSTALL NEW FIXED EXHAUST LOUVER W/GRAVITY RELIEF DAMPER (APPROXIMATE SIZE 5'-0" X 5'-0"). FIELD VERIFY EXACT DIMENSIONS BEFORE ORDERING.
- 20 REMOVE EXST SCREEN (APPROXIMATE SIZE 4'-0" X 4'-0"), AND INSTALL NEW FIXED EXHAUST LOUVER W/GRAVITY RELIEF DAMPER (2'-0" X 2'-0"). FILL IN OPENING AROUND NEW LOUVER WITH MATCHING BUILDING MASONRY.
- 21 REMOVE EXST SCREEN AND CLOSE IN OPENING (APPROXIMATE SIZE 4'-0" X 4'-0") WITH MATCHING BUILDING MASONRY.
- 22 INSTALL LINTEL IN TOP OF OPENING L3X3X1/4 EACH SIDE KEYED INTO EXST MORTAR.
- 23 ROUTE NEW 3/4" BLACK STEEL GAS LINE FROM THE NEW GAS METER TO EACH NEW UNIT HEATER. ATTACH TO WALL USING UNISTRUT SUPPORTS.
- 24 INSTALL BOXES AS NEEDED IN ORDER TO EXTEND CONTROLS TO NEW MCC LOCATION. RECONNECT MCU POWER AND AS SHOWN ON ONE-LINE DIAGRAM AND CONNECTION DIAGRAMS.

RECORD DRAWINGS

Revisions Drawn by R. GONZALES Date 7/21/94

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

APPROVAL OF RECORD DRAWINGS

DATE 11/22/94

BAR IS ONE INCH ON ORIGINAL DRAWING

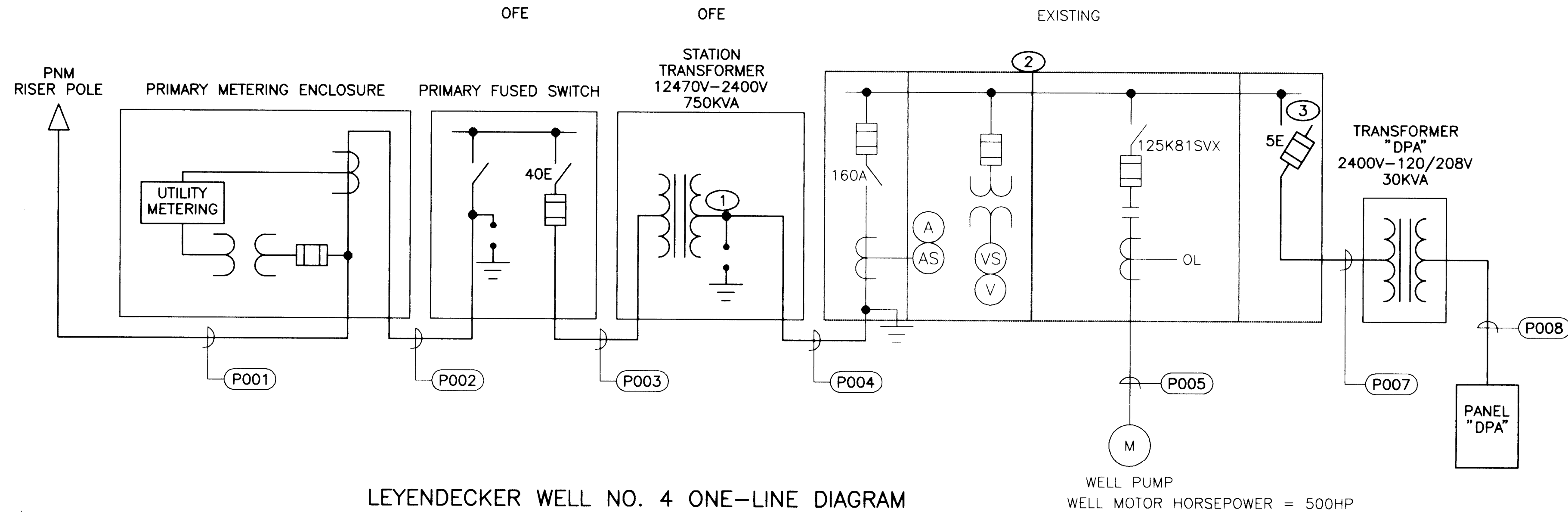
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: VOL. ANDIA WELL NO. 3 POWER AND CONTROL PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Waste Water		
Hydrology					
DRAWING NO. W-E-19		MAP NO.		SHEET 27 OF 43	



SCANNED BY
BY LASON

26 4366.942 194



LEYENDECKER WELL NO. 4 ONE-LINE DIAGRAM
N.T.S.

WELL PUMP
WELL MOTOR HORSEPOWER = 500HP

NOTES

- CONTRACTOR WILL SUPPLY AND INSTALL 3 KV SURGE ARRESTORS IN SECONDARY OF TRANSFORMER.
- USE EXISTING EQUIPMENT UNLESS SHOWN OTHERWISE..
- CONTRACTOR WILL SUPPLY 5E FUSES FOR FUSE CUT OUTS. IF 5E FUSES ARE ALREADY IN PLACE, TURN NEW FUSES OVER TO OWNER.
- MATCH EXISTING PANELBOARD ASSIGNMENTS. PROVIDE NEW TYPED DIRECTORY.

PANELBOARD "DPA"

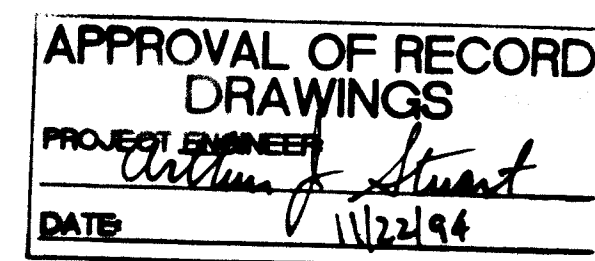
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	20	13	A	14	15	
	20	15	B	16		
	20	17	C	18	3P	
	20	19	A	20	15	
	20	21	B	22		
	15	23	C	24	3P	
		25	A	26	20	
	3P	27	B	28		SPACE
SPACE		29	C	30		SPACE
SPACE		31	A	32		SPACE
120/208V 3Ø 4/WIRE 50A MCB 32 CKT, SURFACE MOUNT NEMA 1 DOOR-IN-DOOR	N		G			

LEYENDECKER WELL NO. 1
PANELBOARD SCHEDULE

POWER					
TAG	SIZE	CONDUCTOR	FROM	TO	REMARKS
P001	4"	PNM	PNM RISER POLE	METERING ENCLOSURE	CONTRACTOR TO RUN CONDUIT AND BUILD RISER TO PNM SPECS. ALL PRIMARY UNDERGROUND TO BE CONCRETE ENCASED.
P002	4"	3#2 15KV, 1#2, GND	METERING ENCLOSURE	PRIMARY FUSED SWITCH	
P003	4"	3#2 15KV, 1#2, GND	PRIMARY FUSED SWITCH	STATION XFMR PRIMARY	
P004	4"	3#2 5KV, SHIELDED 1#2, GND	STATION XFMR SECONDARY	MCU MAIN DISCONNECT	
P005	4"	3#2 5KV, NON-SHIELDED 1#2, GND	MCU	PUMP MOTOR	
P006	2"	3#2 5KV, NON-SHIELDED 1#2, GND	MCU	XFMR DPA PRIMARY	NOT USED.
P007	2"	4 #1, 1 #6, GND	XFMR DPA SECONDARY	PANEL DPA	STATION POWER
P008	3/4"	2 #12, 1 #12, GND	DPA-5	RADIO	
P009	3/4"	2 #12, 1 #12, GND	MOTOR CONTROL CENTER	RTB (RUN CONTACT)	START/STOP COMMAND
P010	3/4"	2 #12, 1 #12, GND	DPA-3	RTU	
P011	3/4"	2 #12, 1 #12, GND	MCU	MOTOR VIBRATION ELEMENT	
P012	3/4"	2 #12, 1 #12, GND	MCU		

INSTRUMENTATION & CONTROL					
TAG	SIZE	CONDUCTOR	FROM	TO	REMARKS
C001	3/4"	2 #14, 1 #14, GND	UTILITY METER ENCLOSURE	RTB	KWH PULSE FROM KYZ
C002	1"	8 3C SHIELDED AND 1 2C SHIELDED	MOTOR RTD WITH TWSH FOR XE	MCU	
C003	3/4"	9 #14	WASHLINE VALVE J-BOX	J-BOX (CONTROL)	
C004	3/4"	9 #14	DISCHARGE VALVE	J-BOX (CONTROL)	
C005	1 1/2"	CONTROL CONDUCTORS (J-BOX CTRL)	J-BOX (CONTROL)	RTB	
C006	3/4"	2-#12, 1-#12 GND	HIGH PRESSURE SWITCH	RTB	REUSE EXISTING NOT USED NOT USED REUSE EXISTING
C007	3/4"	1 2C SHIELDED, 4-#14	FTI J-BOX	RTB	
C008	1"	6 #14, 1 2C SHIELDED	MCU	RTB	
C009	3/4"	2 #12	MCU	EMERGENCY STOP	
C010	3/4"	2 #14, 1 #14, GND	LO AIR TEMP. SWITCH	RTB	
C011					
C012					
C013	3/4"	2 #14, 1 #14, GND	HIGH AIR TEMP. SWITCH	RTB	

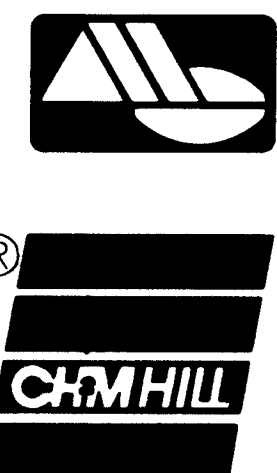
CONDUIT SCHEDULE



RECORD DRAWINGS

Revisions Drawn by: R. GONZALES Date: 7/21/94

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

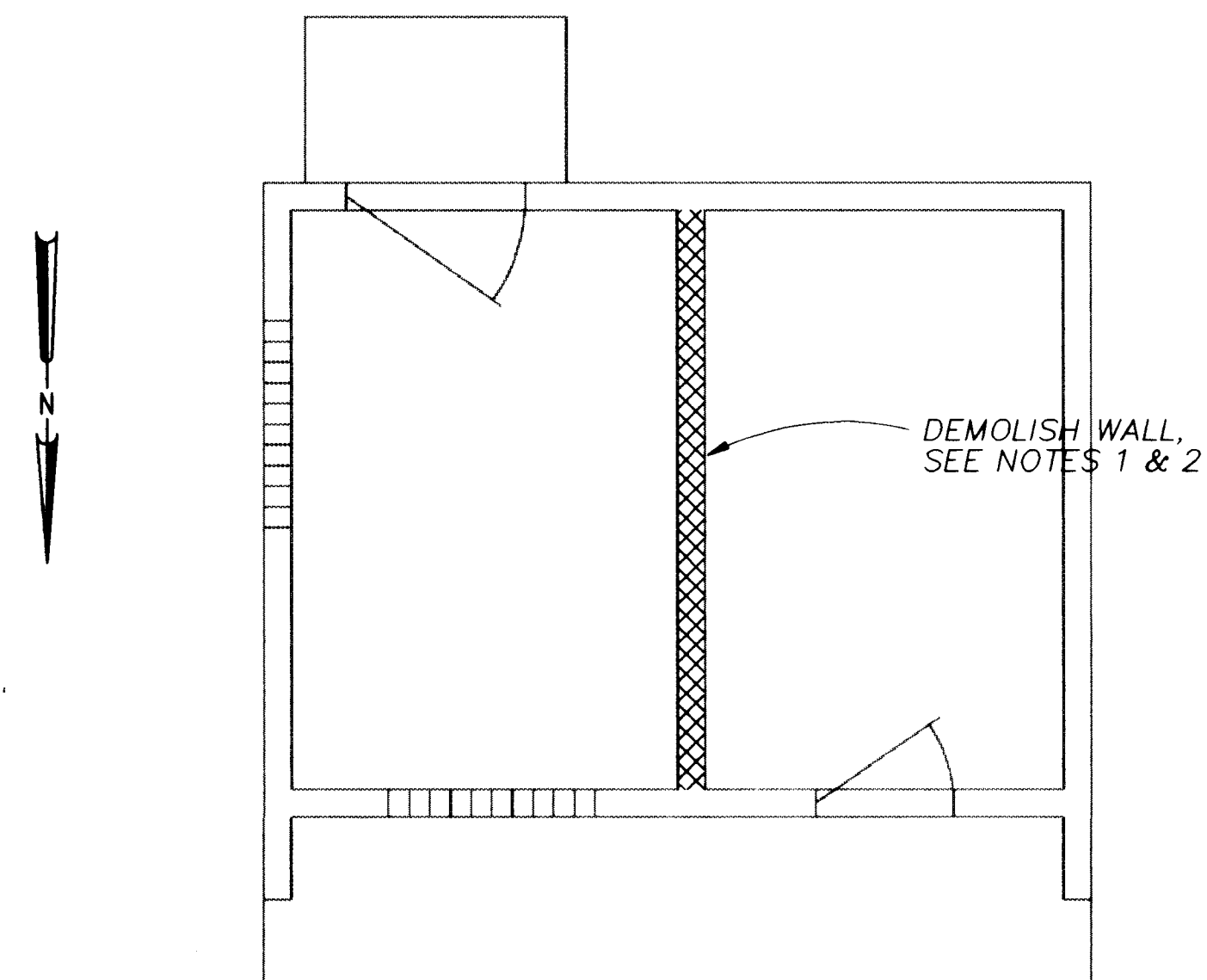


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: LEYENDECKER WELL NO. 4
ONE-LINE DIAGRAM

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					

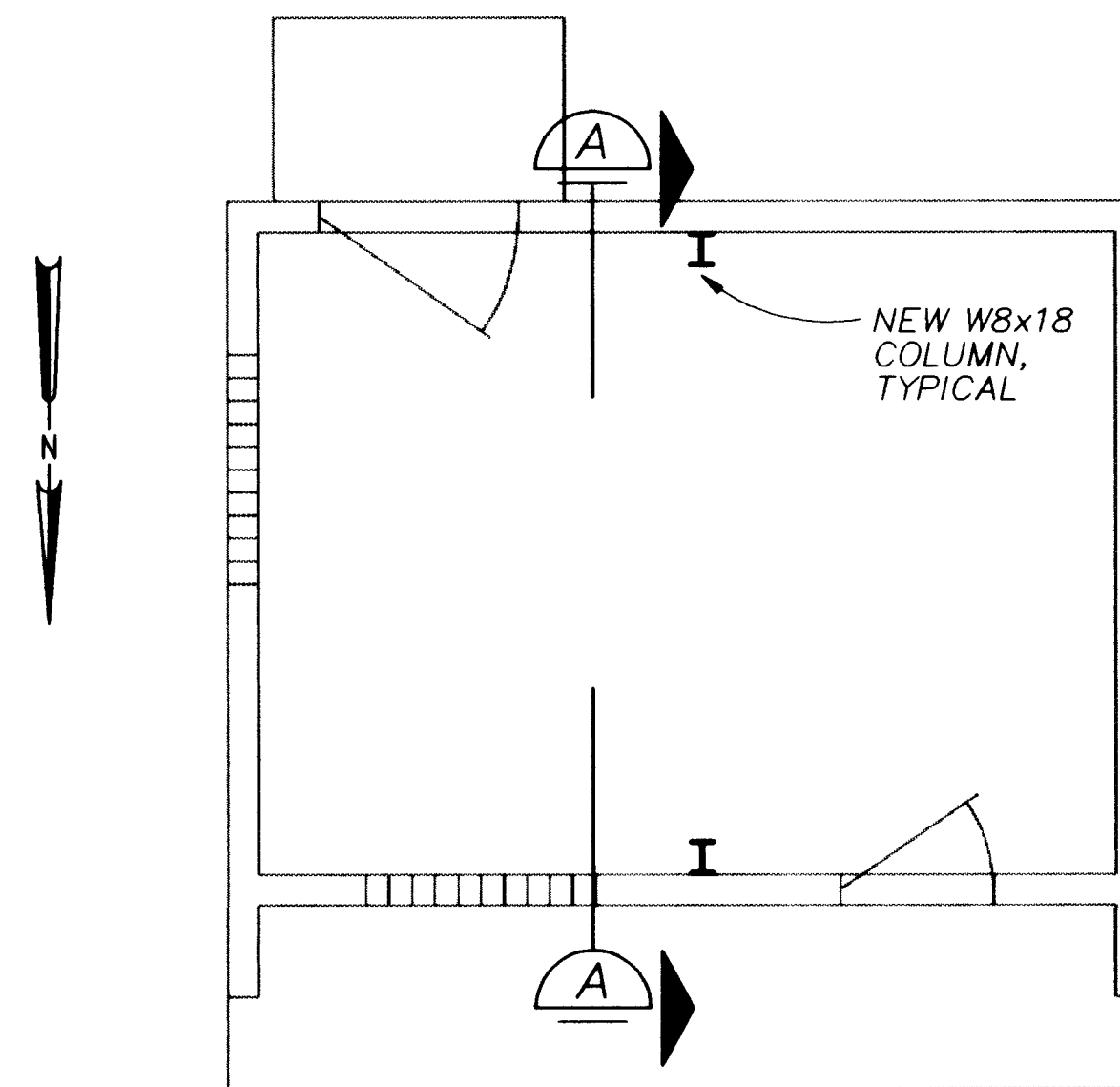
DRAWING NO. W-E-21 MAP NO. SHEET 29 OF 43



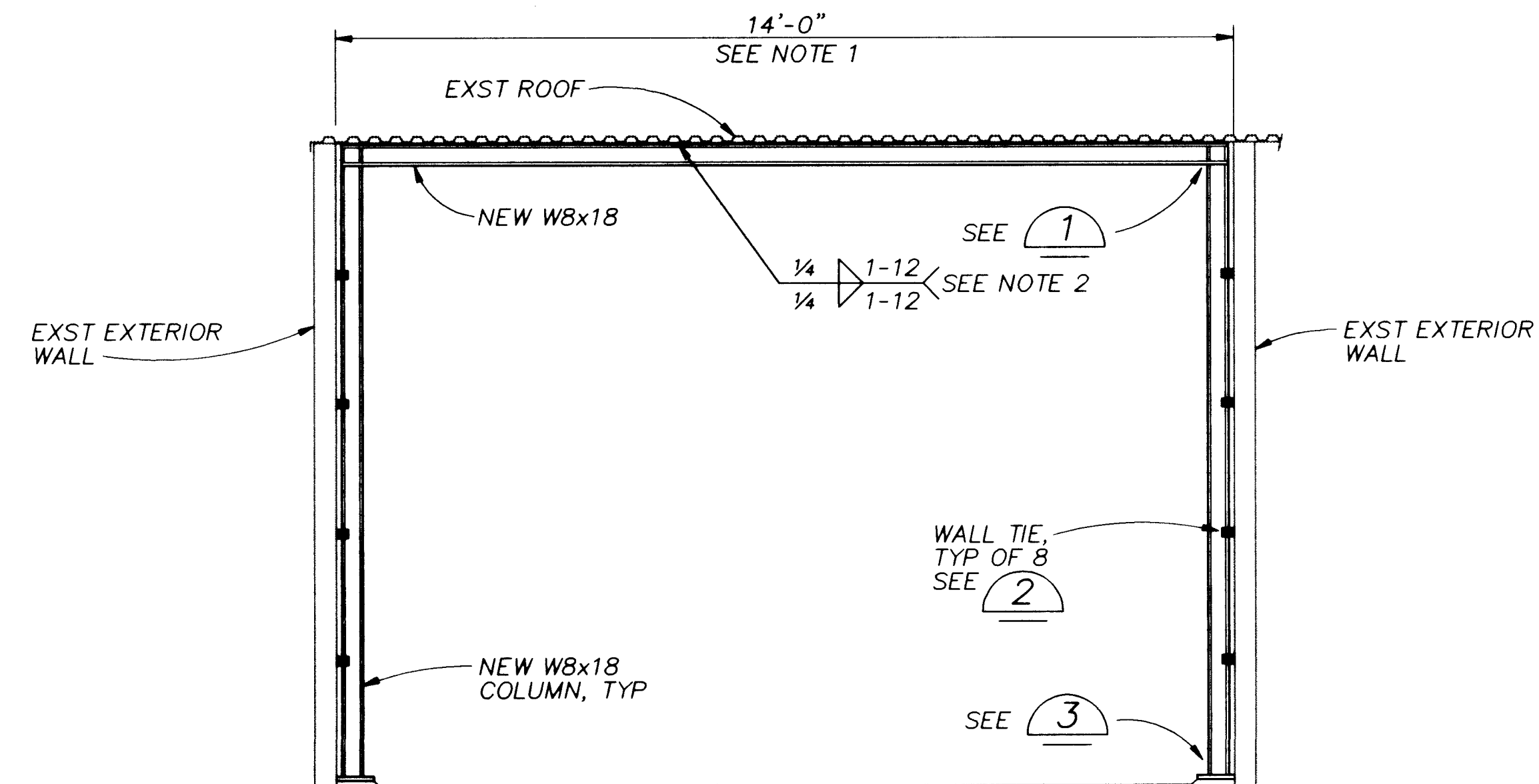
NOTES:

1. SHORE EXISTING CEILING ON BOTH SIDES OF EXISTING WALL BEFORE REMOVING WALL.
2. REMOVE TOP INCH OF CONCRETE BELOW FLOOR LEVEL, SEE (3) PROTECT OR REPLACE JOINT MATERIAL AND SEALANT.

DEMOLITION PLAN

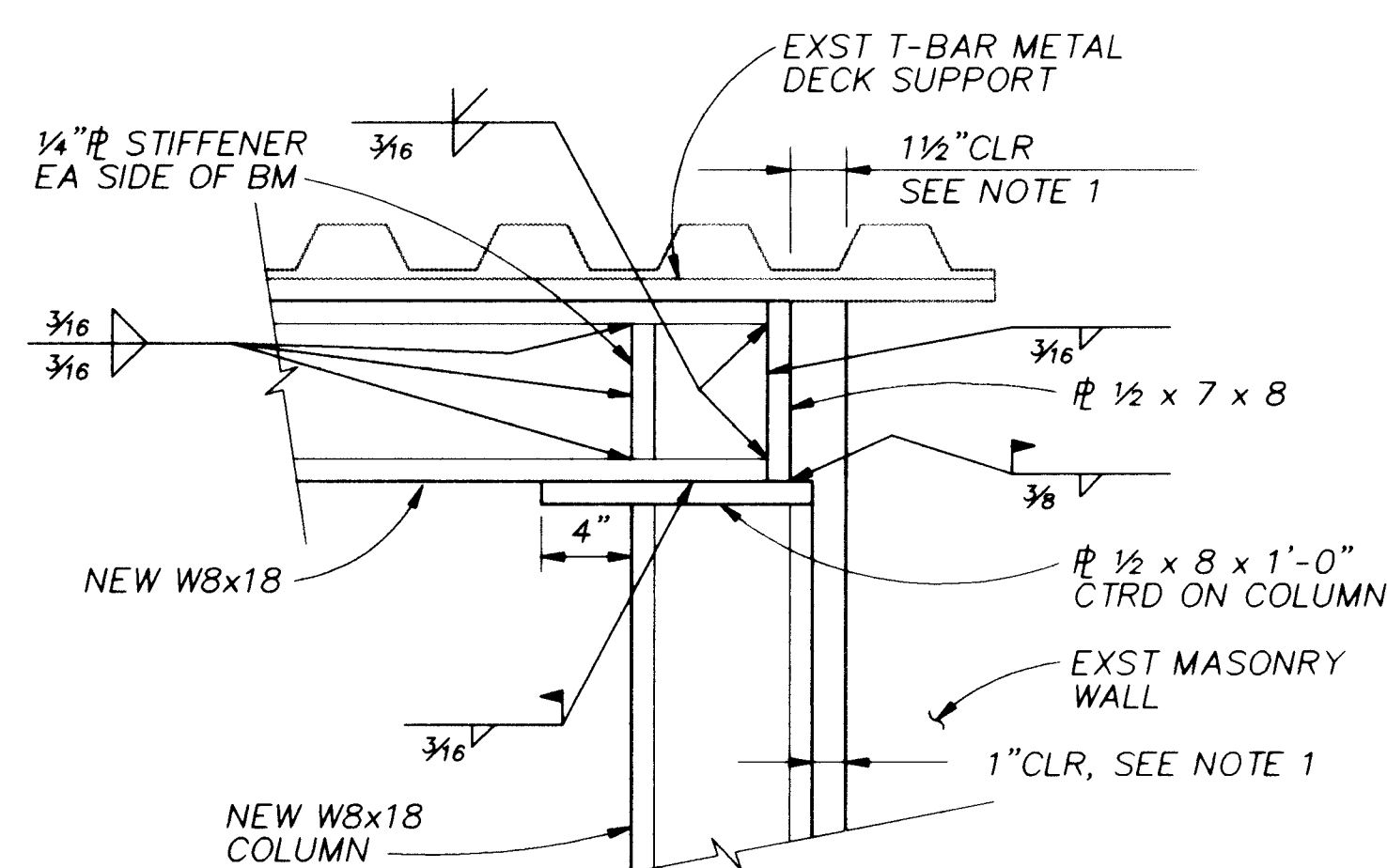
$$\frac{1}{4}'' = 1'-0''$$


PLAN

$$\underline{\underline{1/4'' = 1'-0''}}$$


NOTE:

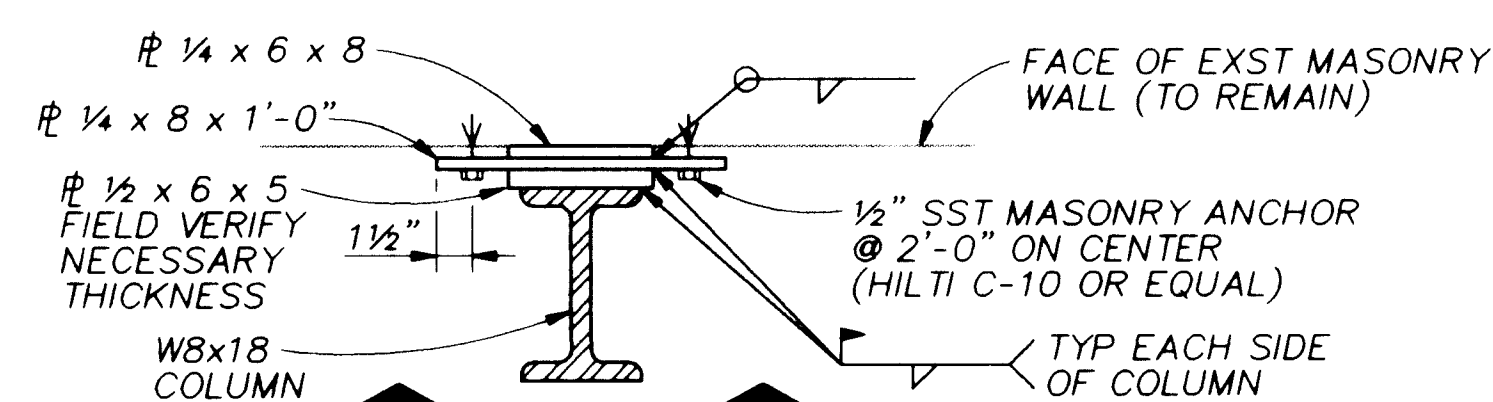
1. CONTRACTOR FIELD VERIFY DIMENSIONS BEFORE FABRICATING STEEL.
2. STITCH-WELD TOP FLANGE OF BEAM TO EXST 6" WIDE T-BAR PLATE ABOVE.

SECTION (A)
$$\frac{1}{2}'' = 1'-0''$$


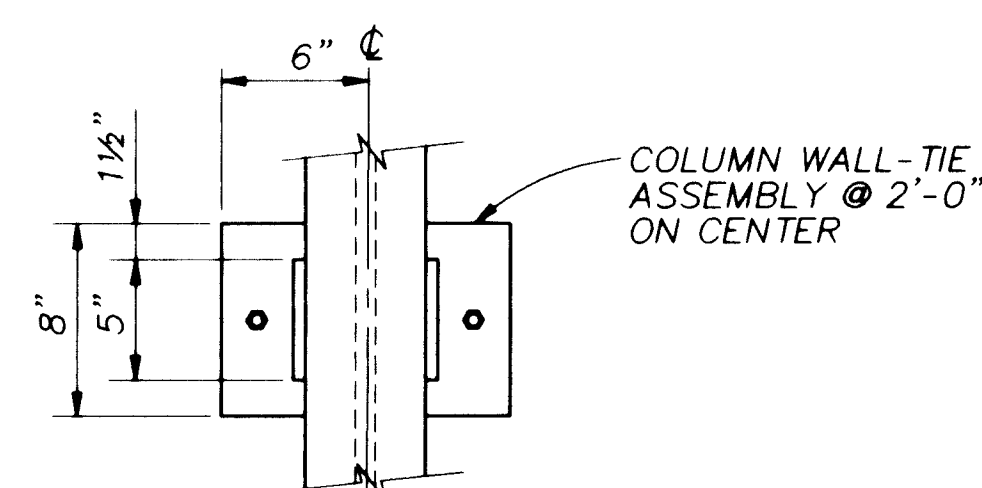
NOTE:

1. 1" AND 1½" DIMENSIONS INDICATED MAY ADJUSTED UP TO ½" IN THE FIELD.

DETAIL 1

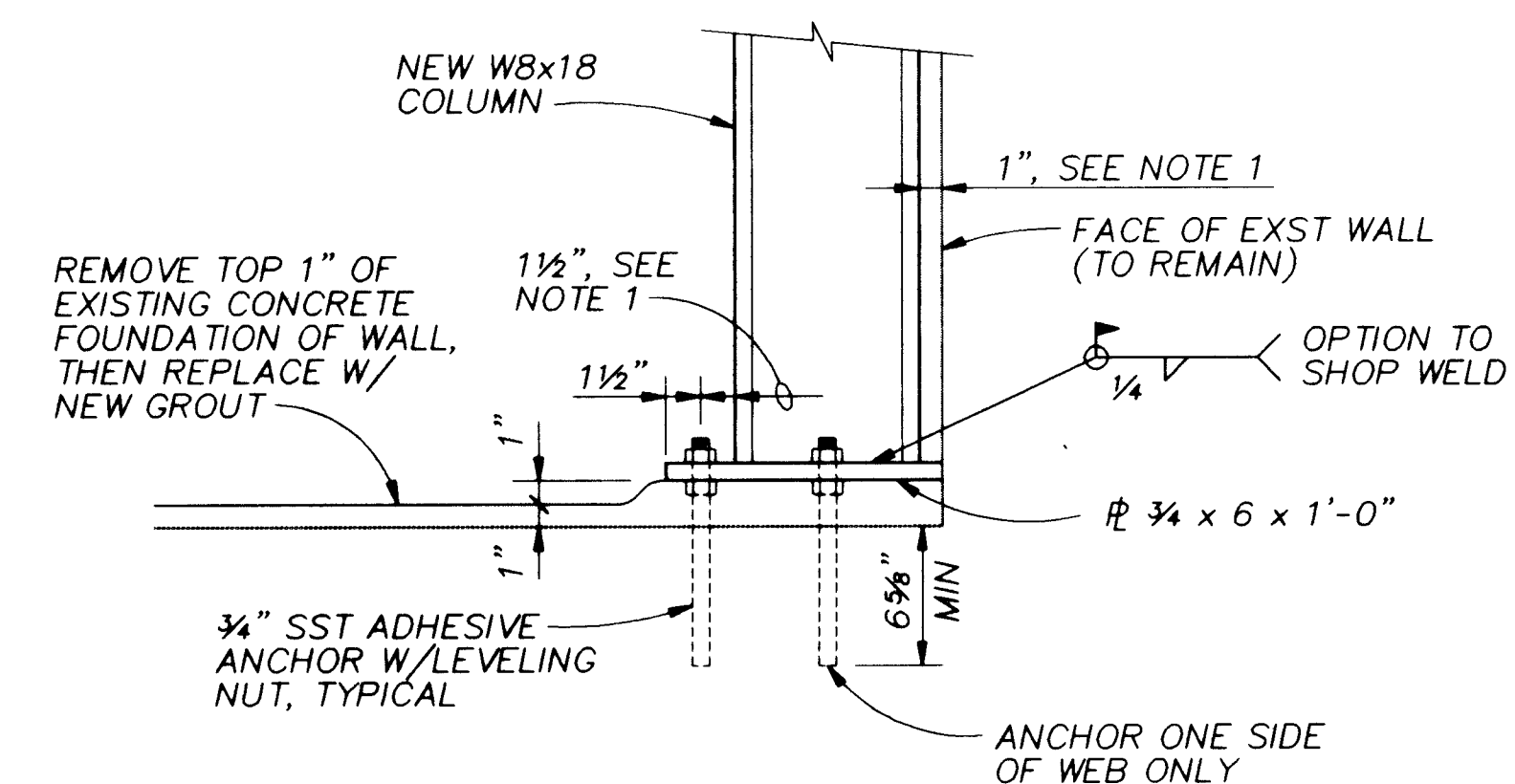
$$1\frac{1}{2}'' = 1'-0''$$


PLAN



ELEVATION

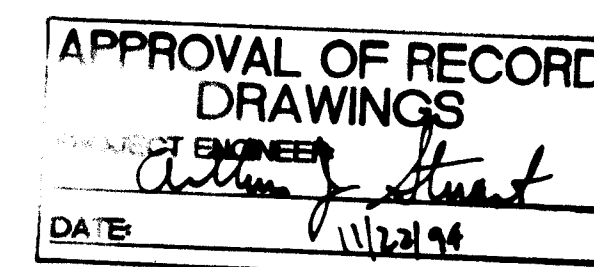
DETAIL (2)

$$1\frac{1}{2}'' = 1'-0''$$


NOTE:

1. 1" AND 1½" DIMENSIONS INDICATED MAY BE ADJUSTED UP TO ½" IN THE FIELD.

DETAIL (3)

$$1\frac{1}{2}'' = 1'-0''$$


RECORD DRAWINGS

Revisions Drawn by R. GONZALEZ Date 1/21/84

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[illegible]

VER. 5.0 SCALE

BAR IS ONE INCH ON
ORIGINAL DRAWING

0  1"

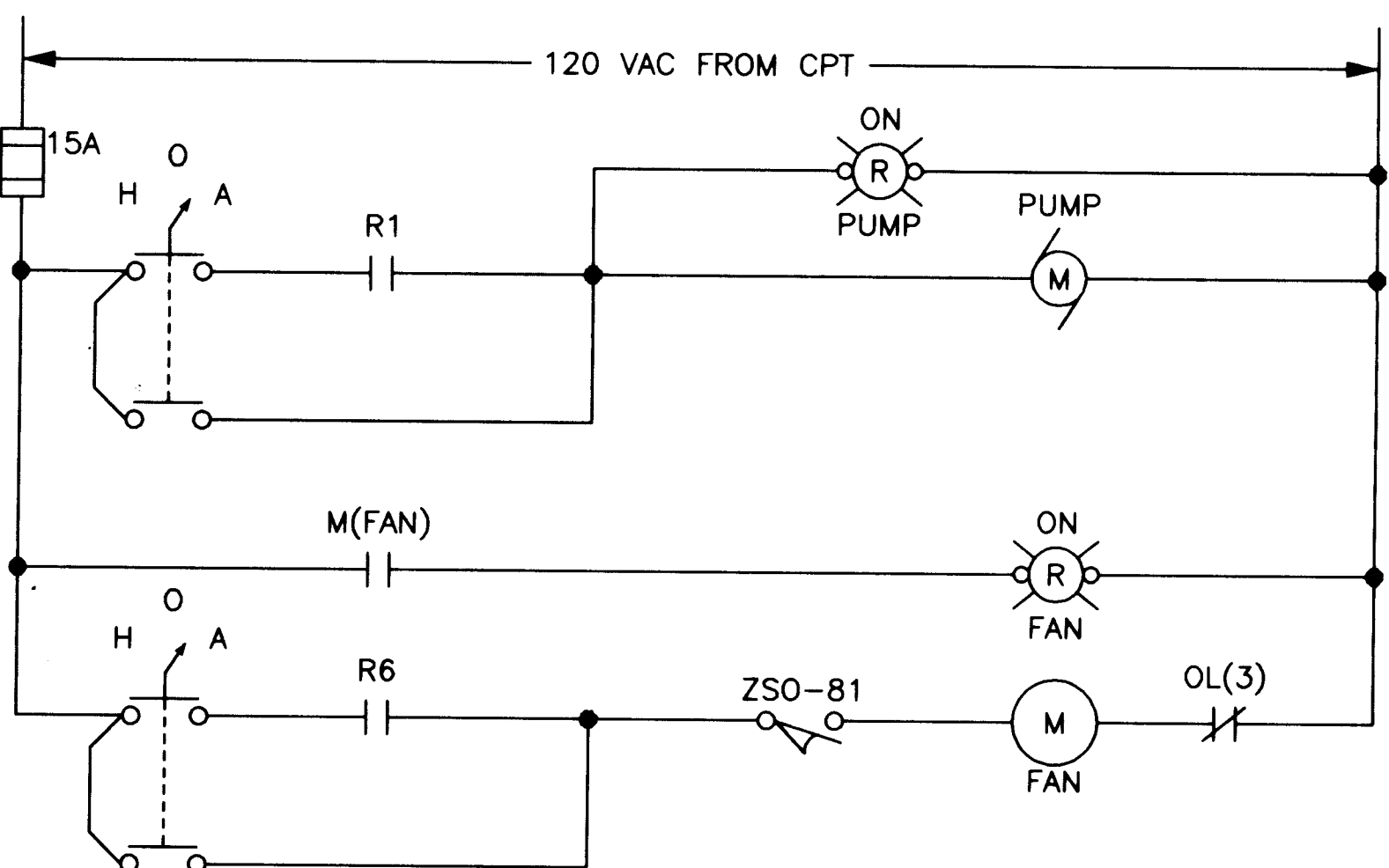
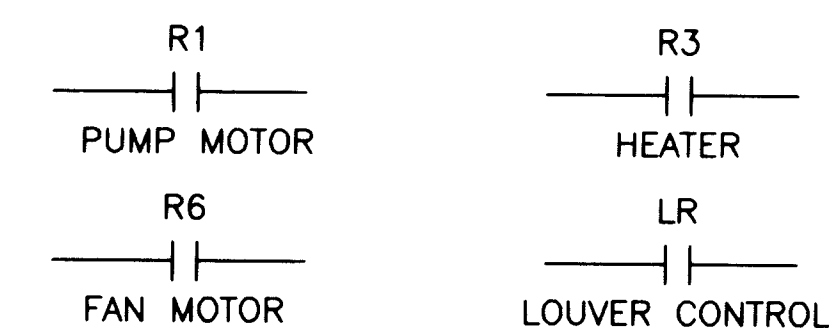
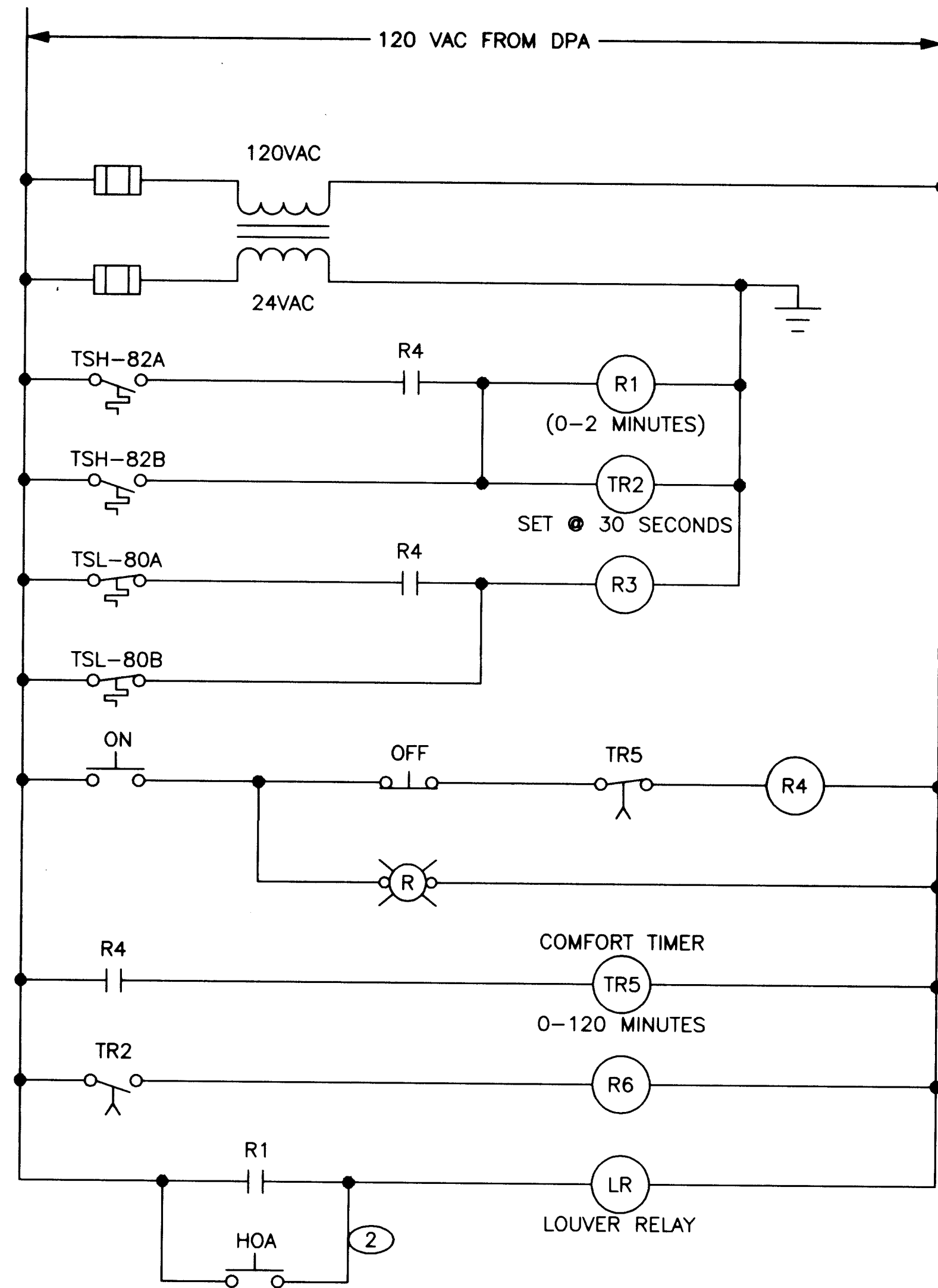
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

CITY OF ALBUQUERQUE									
PUBLIC WORKS DEPARTMENT									
ENGINEERING DIVISION									
TITLE: ELECTRICAL AND MECHANICAL REHABILITATION									
LEYENDECKER WELL NO. 4									
STRUCTURAL PLANS AND DETAILS									

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE

DRAWING NO. **W-S-1** . MAP NO. SHEET **29A** OF **43**

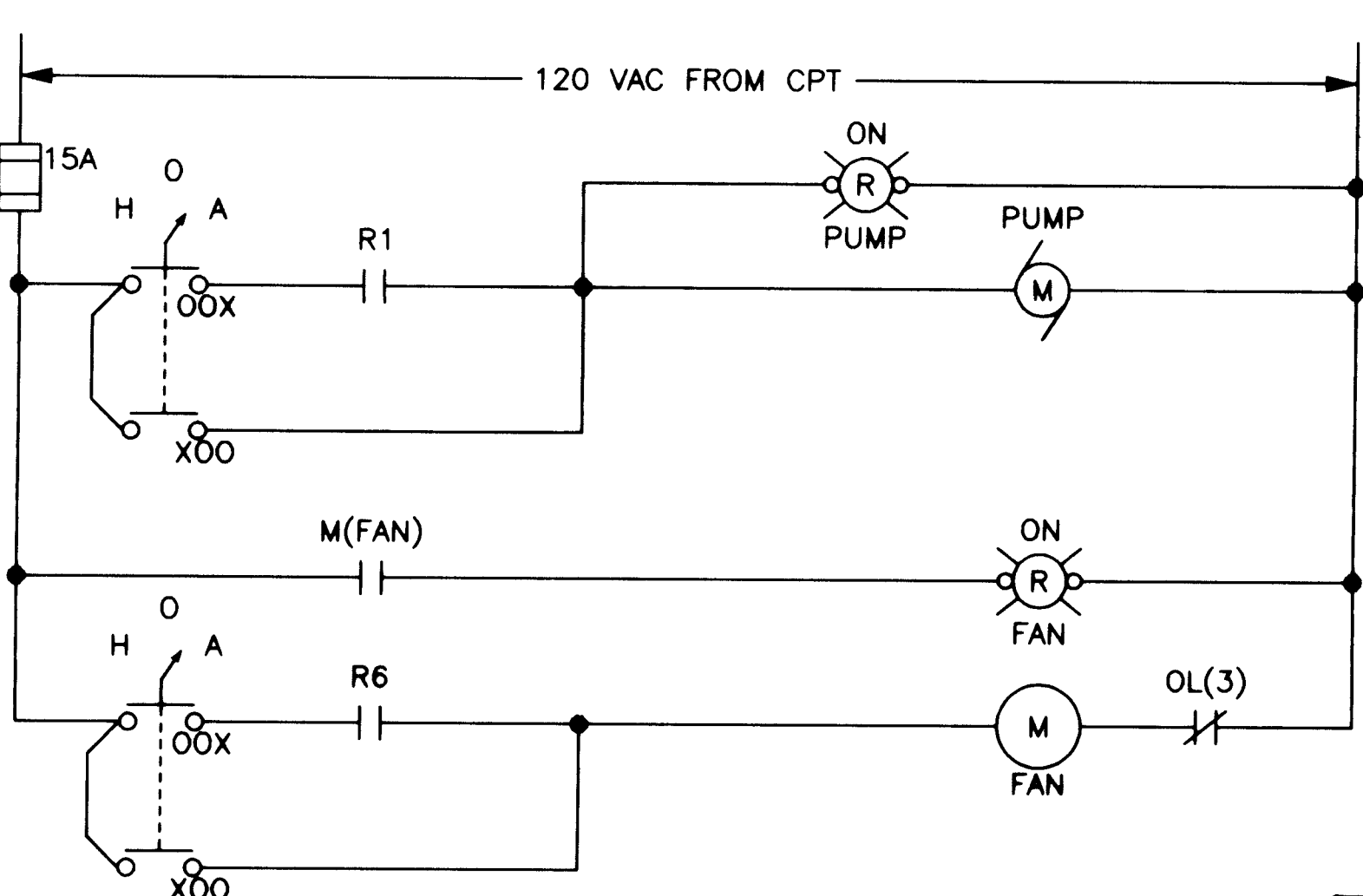
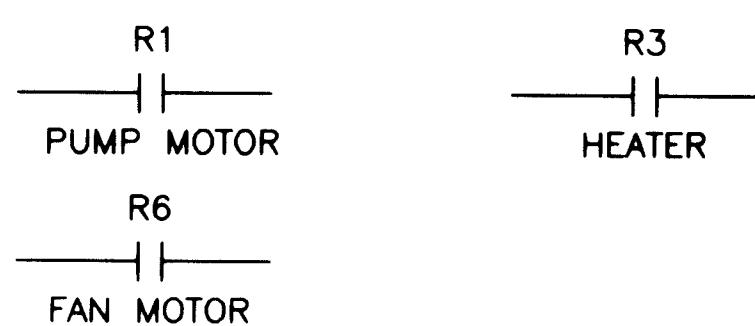
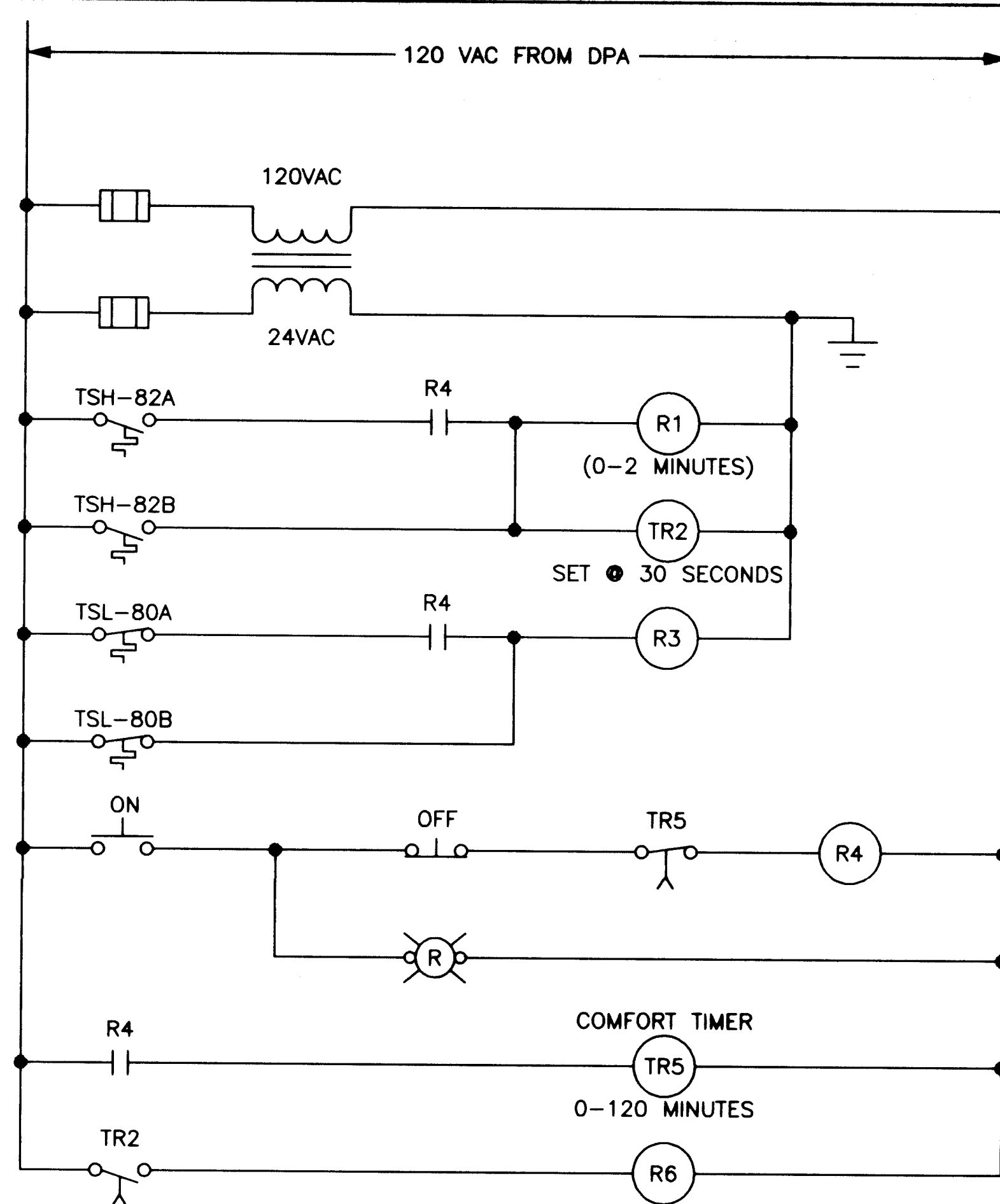
SCANNED BY
BY LASON



EVAPORATIVE COOLER SCHEMATIC
N.T.S.

UNIT HEATER BLOCK DIAGRAM
N.T.S.

FACILITIES WITH ONE HEATER AND ONE EVAP. COOLER ①
WITH A MOTORIZED LOUVER

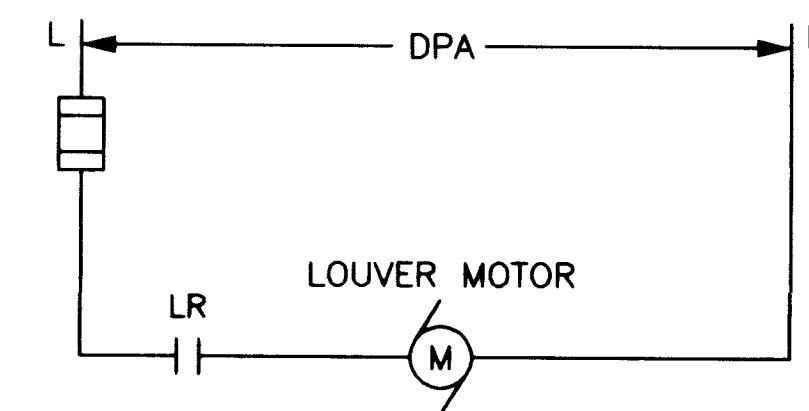


EVAPORATIVE COOLER SCHEMATIC
N.T.S.

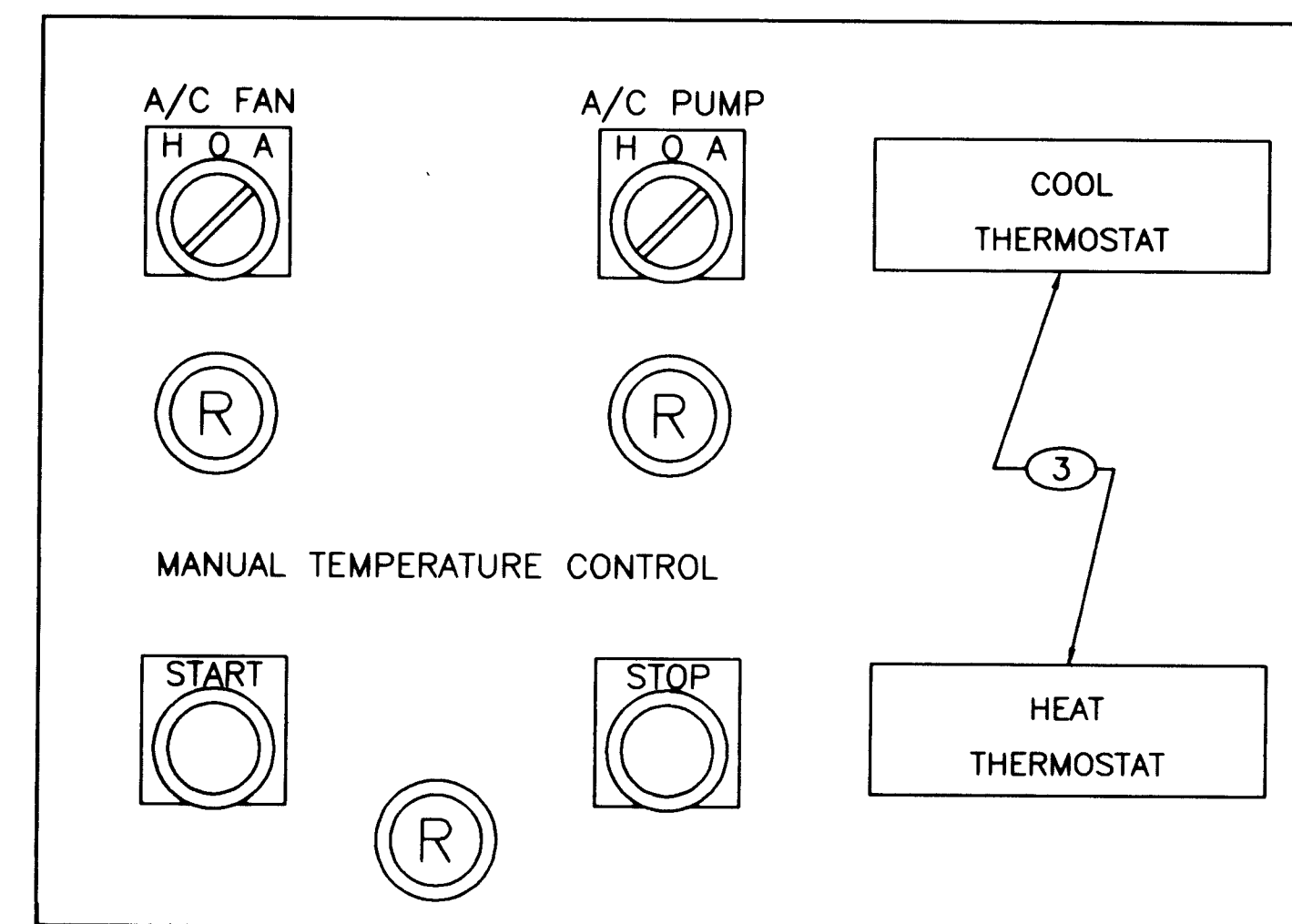
FACILITIES WITH ONE HEATER AND ONE EVAP. COOLER ①

NOTES

- FOR FACILITIES WITH MULTIPLE HEATERS OR EVAPORATIVE COOLERS, ADD RELAYS, LOUVER RELAYS (IF REQUIRED) AND PILOT LIGHTS APPROPRIATELY.
- CONTACT OF H-O-A SWITCH FOR EVAPORATIVE COOLER.
- SURFACE MOUNT THERMOSTATS ON FACE OF HEAT/COOL CONTROL PANEL AT WELLS.



LOUVER MOTOR SCHEMATIC
(FOR FACILITIES WITH LOUVERS IN CEILING)



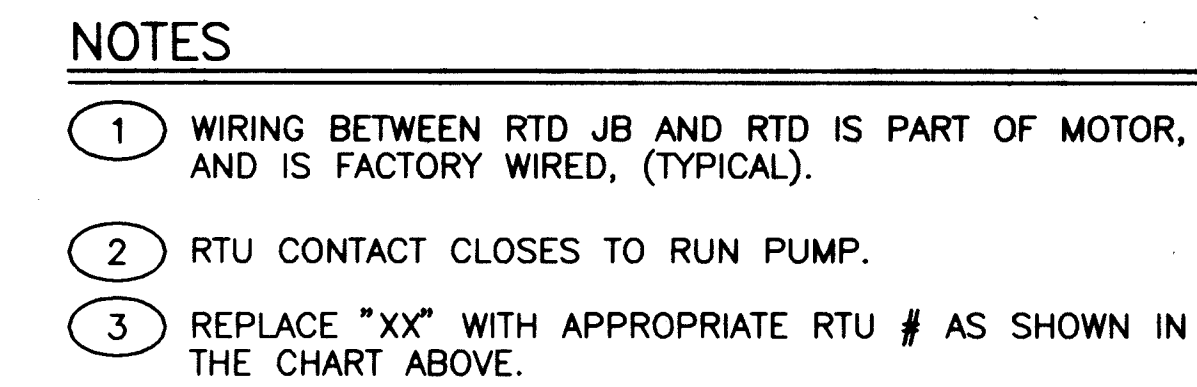
HEAT/COOL CONTROL PANEL
N.T.S.

APPROVAL OF RECORD
DRAWINGS
R. GONZALES
7/21/94

RECORD DRAWINGS
R. GONZALES
7/21/94
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: COMMON WELL DRAWINGS HEATING/COOLING SCHEMATICS AND PANEL ELEVATION					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					
DRAWING NO. W-E-22		MAP NO.		SHEET 30 OF 43	

[illegible]

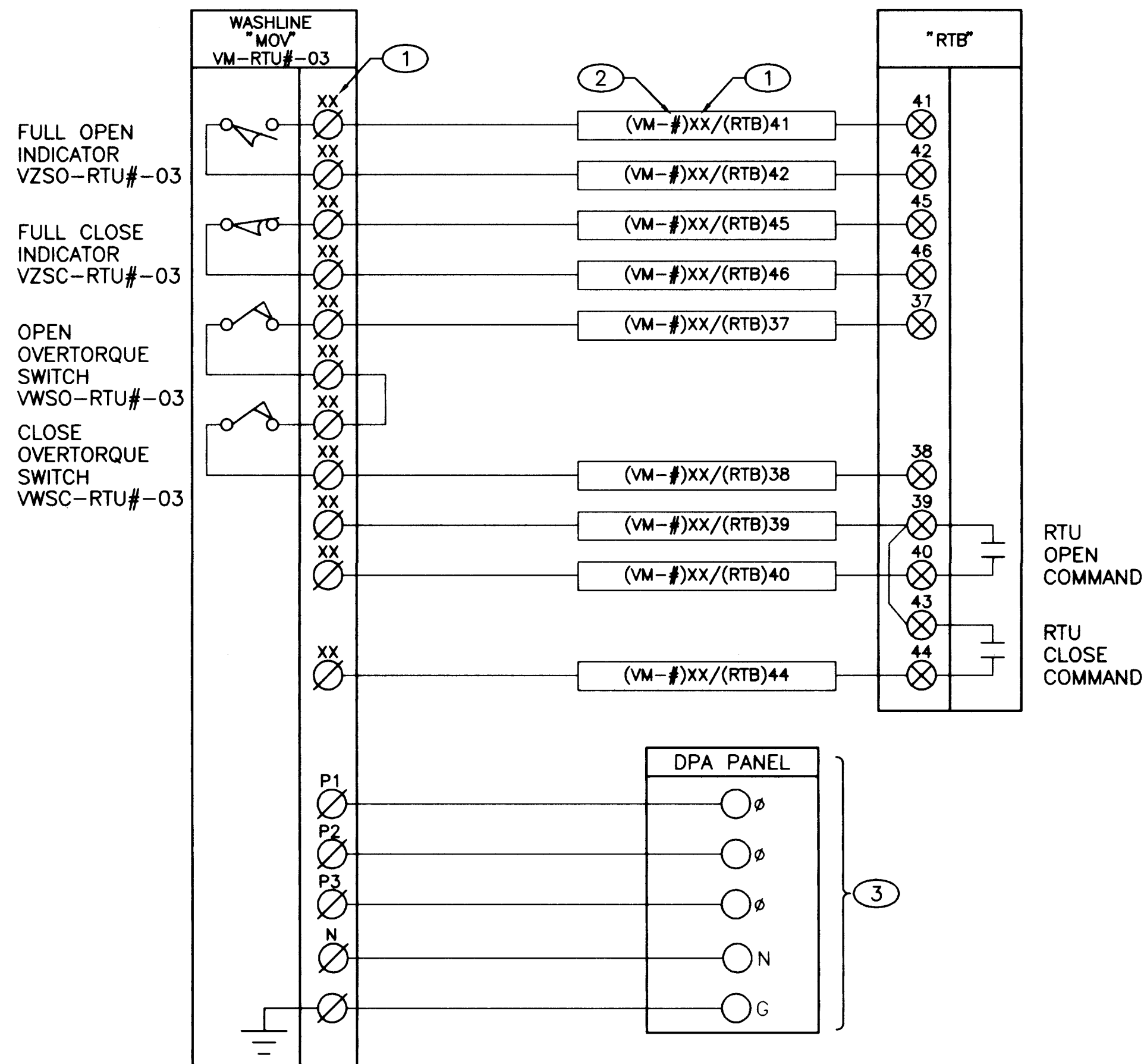
BAR IS ONE INCH OF
ORIGINAL DRAWING
0 1
IF NOT ONE INCH OF
THIS SHEET, ADJUST
SCALES ACCORDINGLY

RECORD DRAWINGS



CTINTCON.DWG 1=1 8-18-92

SCANNED BY
BY LASON



VALVE CONNECTION DIAGRAM

WELL NAME	RTU #
RIDGECREST WELL NO. 2	092
RIDGECREST WELL NO. 3	093
RIDGECREST WELL NO. 4	094
MILES WELL NO. 1	085
LOVE WELL NO. 4	049
LOMAS WELL NO. 1	054

NOTES

- 1 LABEL WIRES TO MATCH TERMINALS OF EXISTING EQUIPMENT. REPLACE "XX" WITH TEMRMINAL #.
- 2 REPLACE "X" WITH APPROPRIATE RTU # LISTED IN THE RTU # CHART . ONLY IF RE-WIRING VALVE.
- 3 ASSIGN TO SPACE ON PANELBOARD.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE			FIELD NOTES	DATE	NO.	BY
WORK	DATE						
INSPECTED BY	DATE						
ACCEPTANCE BY	DATE						
VERIFICATION BY	DATE						
DRAWING BY	DATE						
MICRO-FILM INFORMATION	DATE						
RECORDED BY	DATE						
NO.							

THESE DRAWINGS WERE MODIFIED USING AUTOCAD AND REPLOTED FOR RECORD PURPOSES AND THEREFORE DO NOT HAVE THE ENGINEER'S STAMP OR OTHER SIGNATURES THAT APPEAR ON THE ORIGINAL CONTRACT DRAWINGS.

26 4366.943294

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

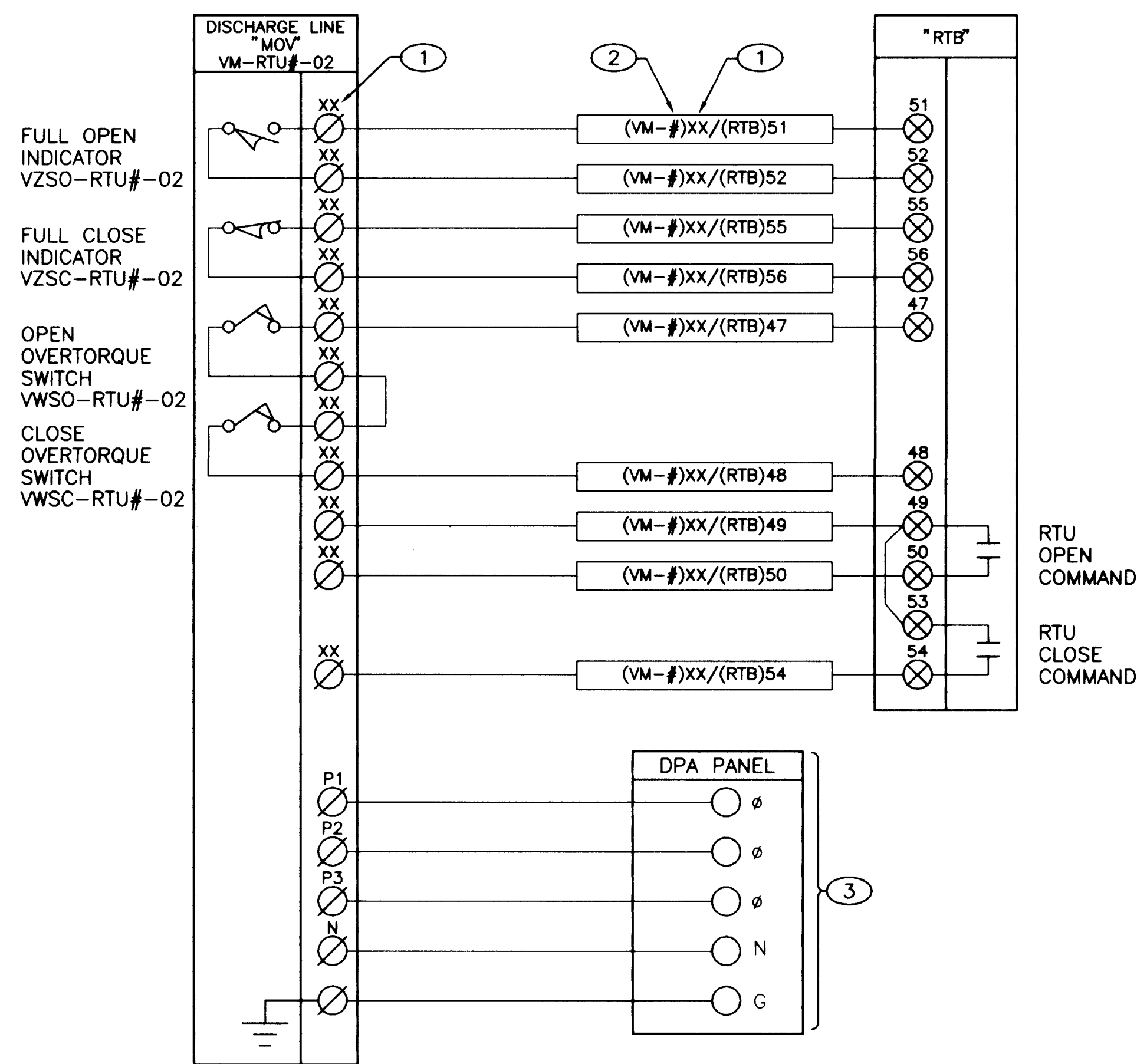
SCANNED BY
BY LASON



APPROVAL OF RECORD
DRAWINGS
PROJECT ENGINEER
DATE

RECORD DRAWINGS
Revisions Drawn by: R. GONZALES Date: 7/21/94
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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: COMMON WELL DRAWINGS WASHLINE VALVE SCHEMATIC					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					
DRAWING NO. W-E-24		MAP NO.		SHEET OF 32 43	



WELL NAME	RTU #
RIDGECREST WELL NO. 2	092
RIDGECREST WELL NO. 3	093
RIDGECREST WELL NO. 4	094
MILES WELL NO. 1	085
LOVE WELL NO. 4	049
LOMAS WELL NO. 1	054

NOTES

- 1 LABEL WIRES TO MATCH TERMINALS OF EXISTING EQUIPMENT. REPLACE "XX" WITH TEMRMINAL #.
- 2 REPLACE "X" WITH APPROPRIATE RTU # LISTED IN THE RTU # CHART ONLY IF RE-WIRING VALVE.
- 3 ASSIGN TO SPACE ON PANELBOARD.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE			FIELD NOTES	DATE	THESE DRAWINGS WERE MODIFIED USING AUTOCAD AND REPLOTED FOR RECORD PURPOSES AND THEREFORE DO NOT HAVE THE ENGINEER'S STAMP OR OTHER SIGNATURES THAT APPEAR ON THE ORIGINAL CONTRACT DRAWINGS.	
WORKED BY	DATE			BY	DATE		
INSPECTED BY	DATE			NO.			
ACCEPTANCE BY	DATE						
REVISIONS BY	DATE						
DESIGNED BY	DATE						
DRAWN BY	DATE						
CHECKED BY	DATE						

VERIFICATION
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

26 4366.943394

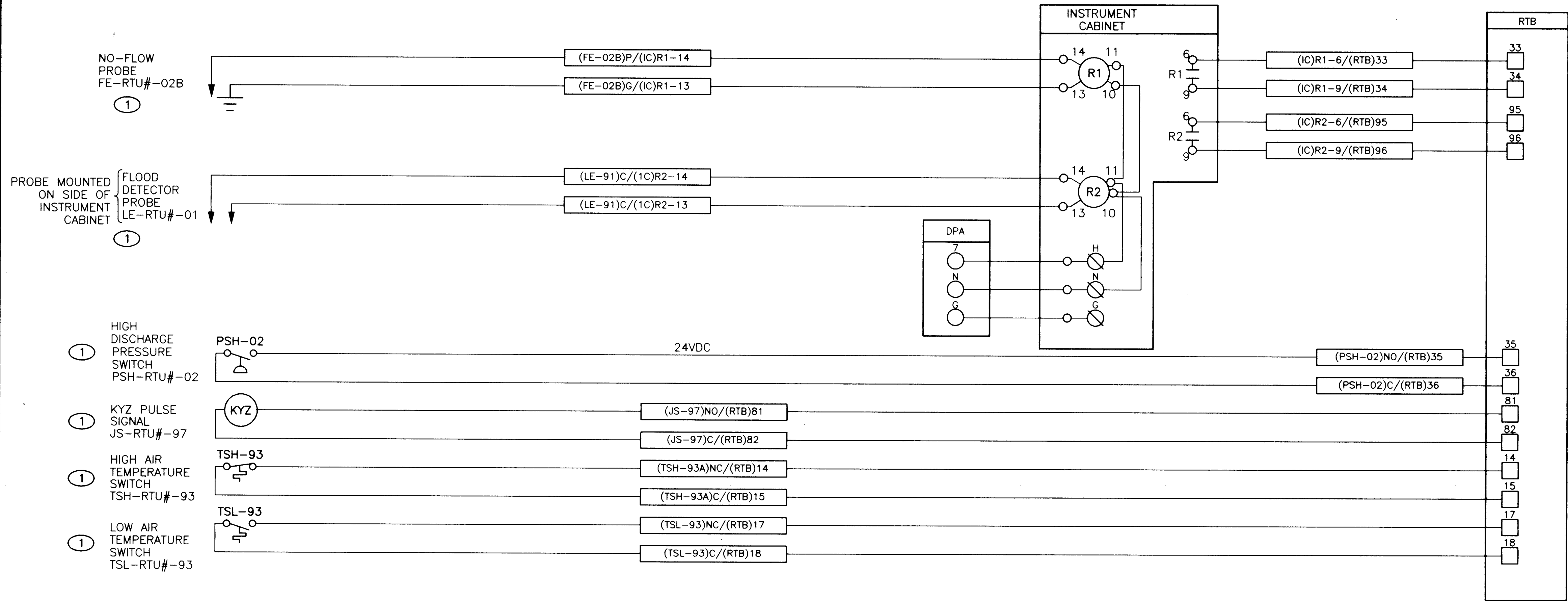
REVIEWED BY
 R. LASON

APPROVAL OF RECORD DRAWINGS
 PROJECT ENGINEER
 DATE 11/21/94

RECORD DRAWINGS
 Revisions Drawn by R. GONZALES Date 7/21/94
 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: COMMON WELL DRAWINGS DISCHARGE VALVE SCHEMATIC					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					
DRAWING NO. W-E-25		MAP NO.		SHEET OF 33 43	



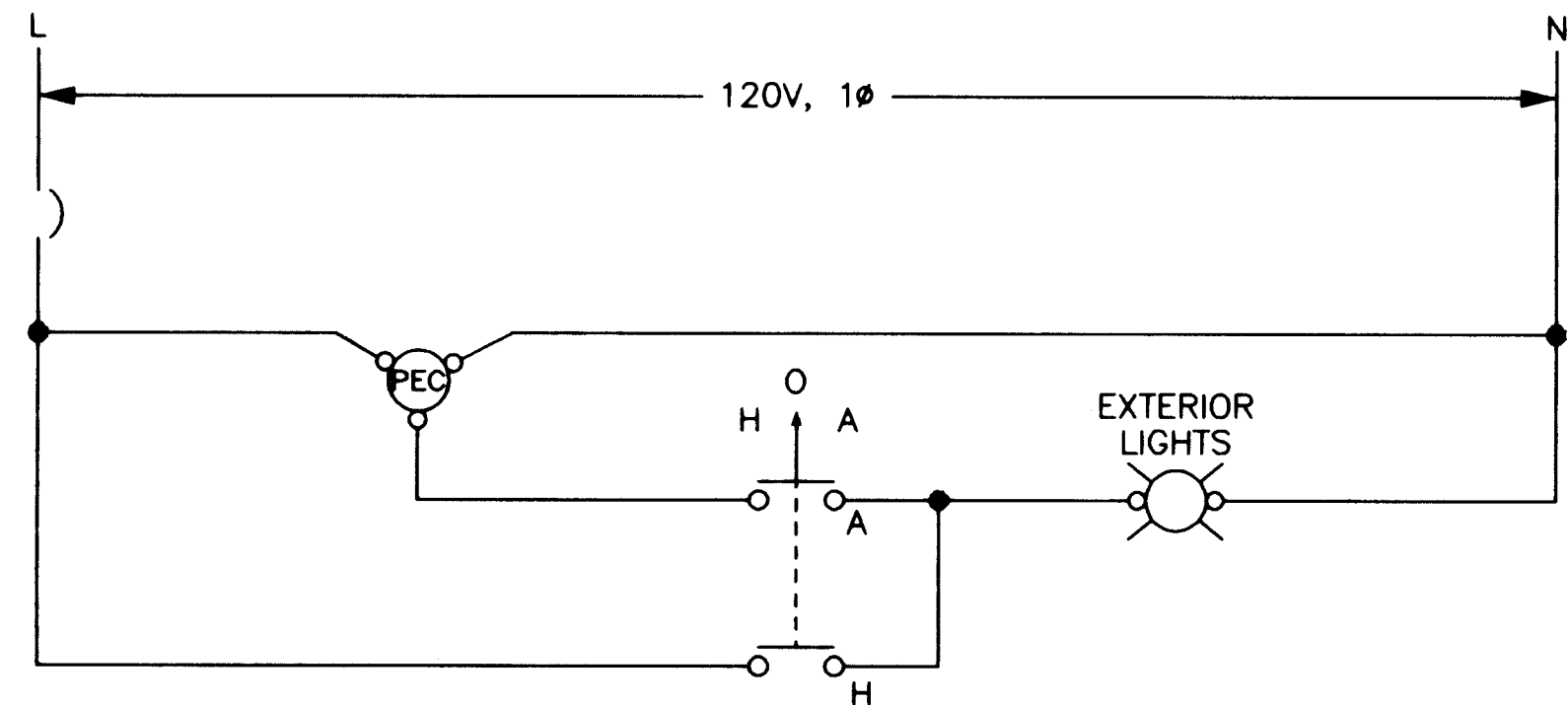
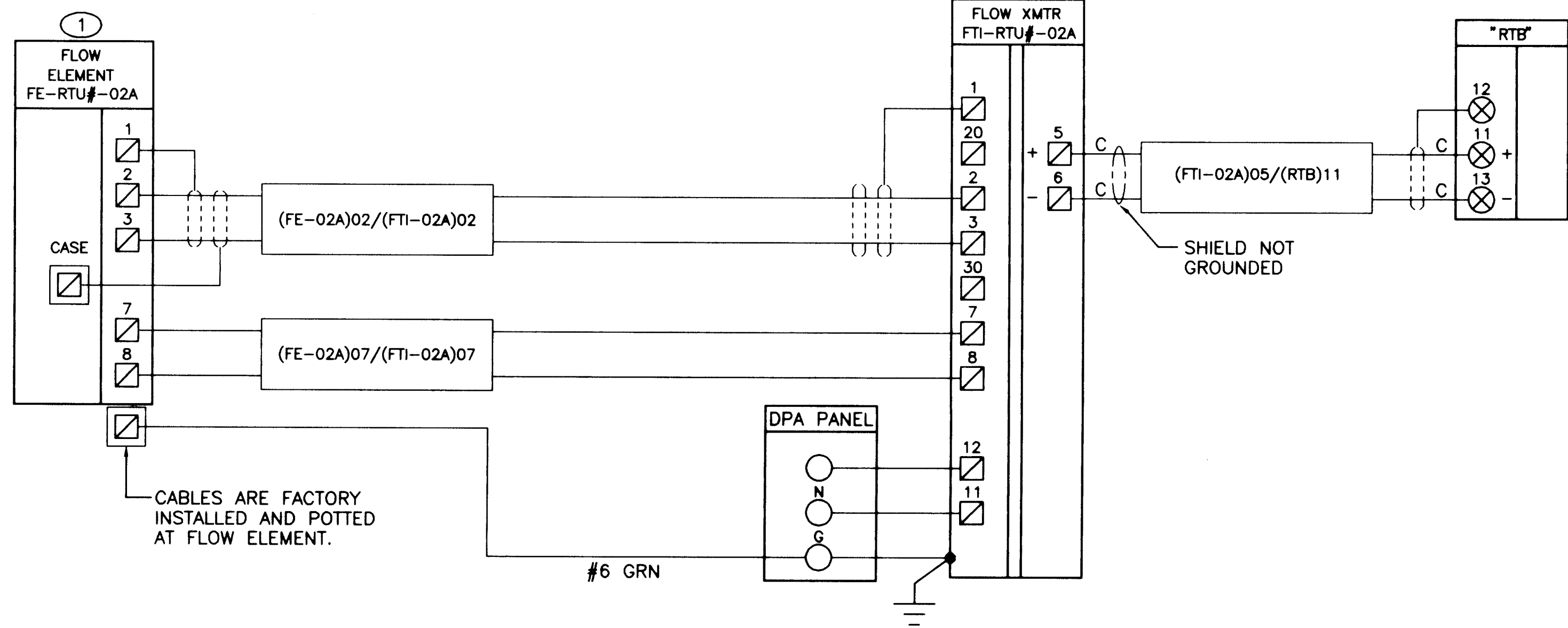
GENERAL NOTES

1. SCHEMATICS ARE SHOWN AS A CONVENIENCE. RE-WIRE MAY NOT BE REQUIRED AT ALL FACILITIES.

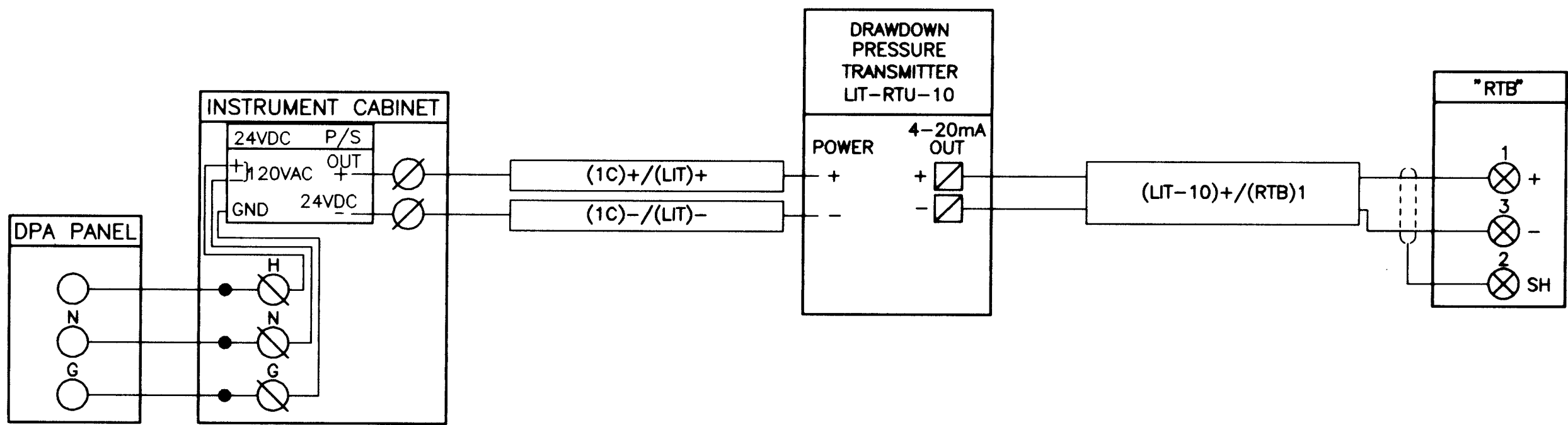
NOTES

① FOR RTU # SEE RTU # CHART.

WELL NAME	RTU #
RIDGECREST WELL NO. 2	092
RIDGECREST WELL NO. 3	093
RIDGECREST WELL NO. 4	094
MILES WELL NO. 1	085
LOVE WELL NO. 4	049
LOMAS WELL NO. 1	054



EXTERIOR LIGHTING CONTROL SCHEMATIC



APPROVAL OF RECORD DRAWINGS
PROJECT ENGINEER
DATE 11/21/94

RECORD DRAWINGS
R. GONZALES
DATE 7/21/94

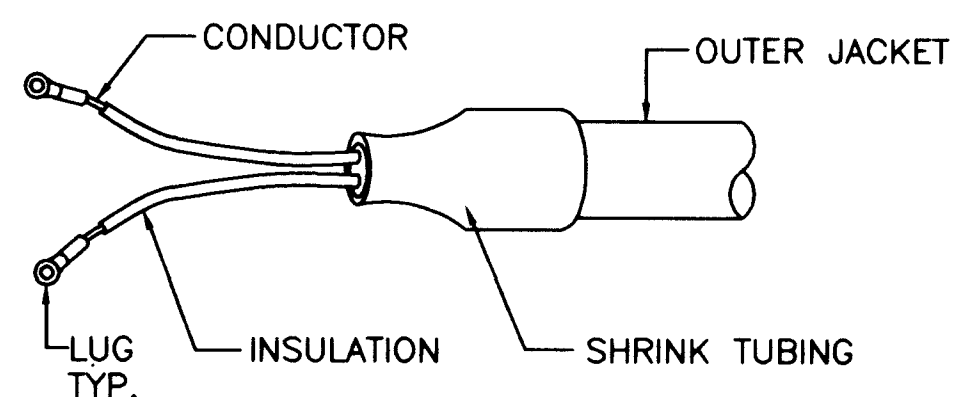
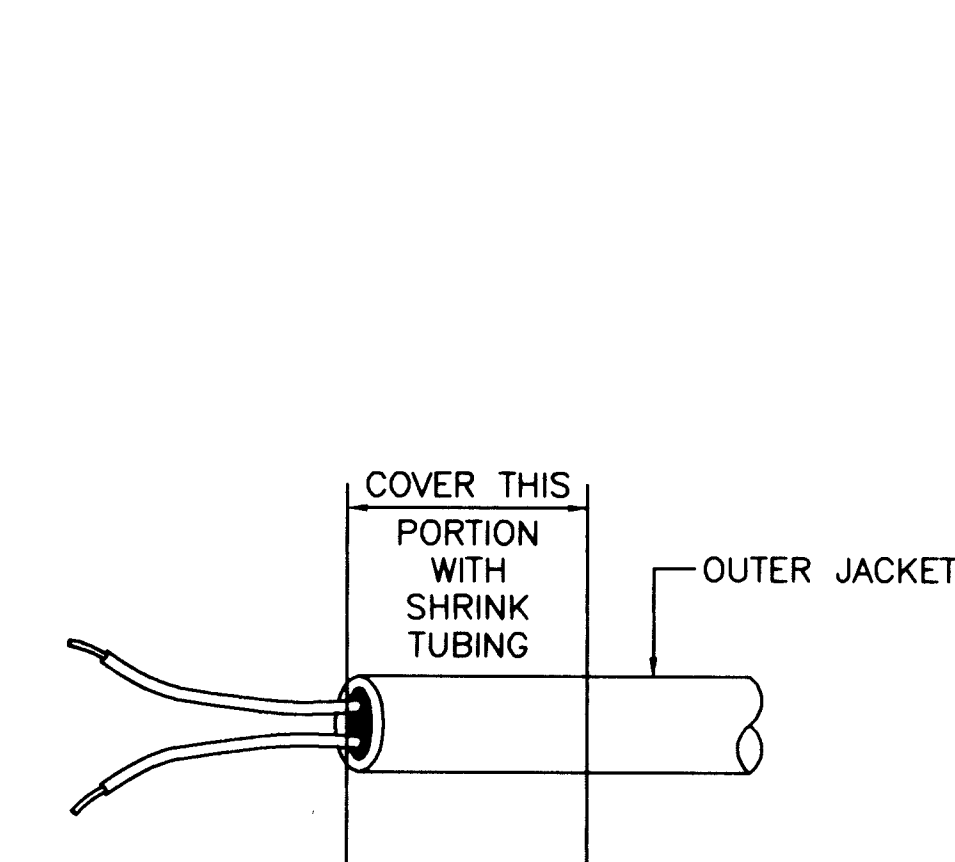


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: COMMON WELL DRAWINGS
MISCELLANEOUS CONNECTION DIAGRAMS

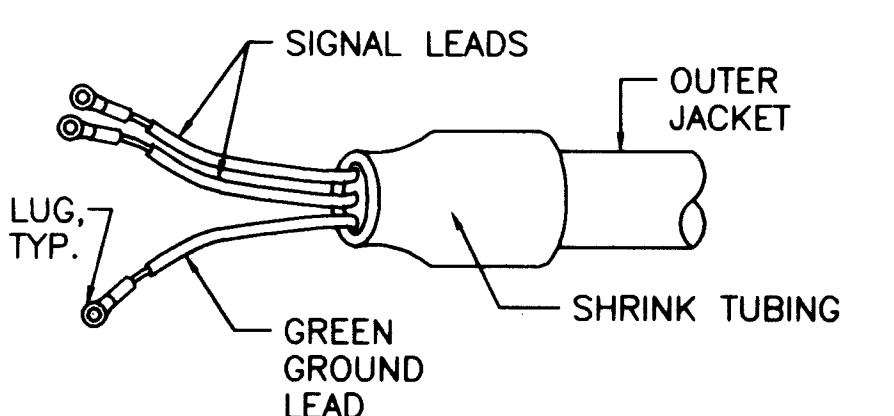
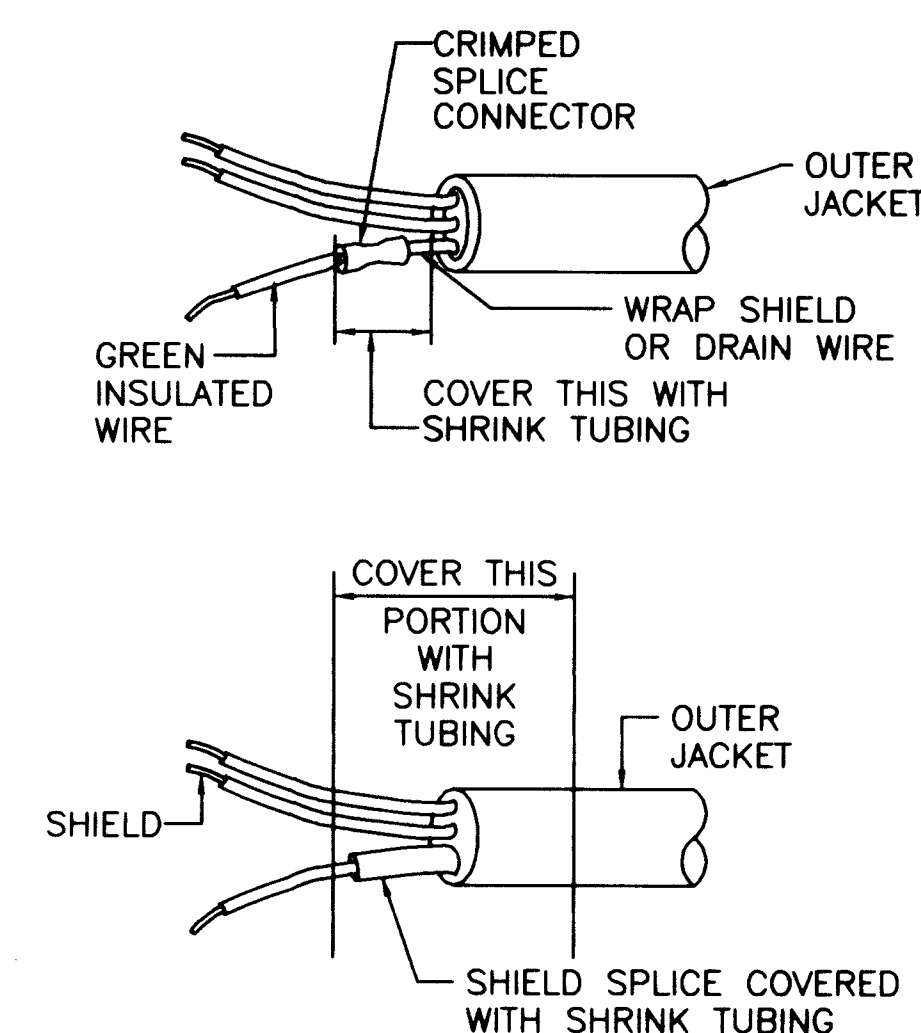
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					

DRAWING NO. W-E-26 MAP NO. SHEET 34 OF 43



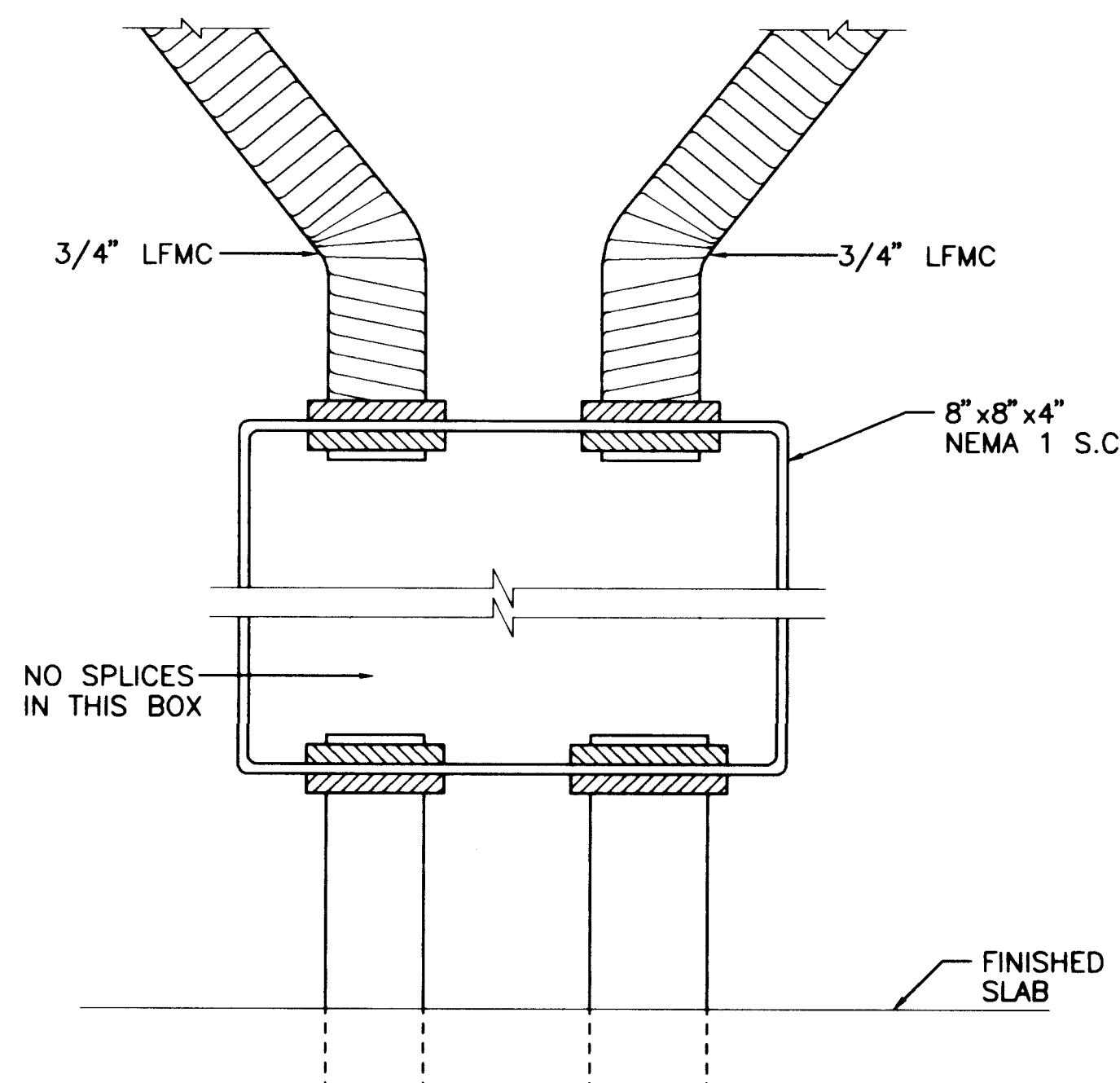
NOTE:
SHIELD NOT GROUNDED
AT TERMINATION.

TERMINATION OF SHIELDED
CONTROL CABLE
N.T.S.

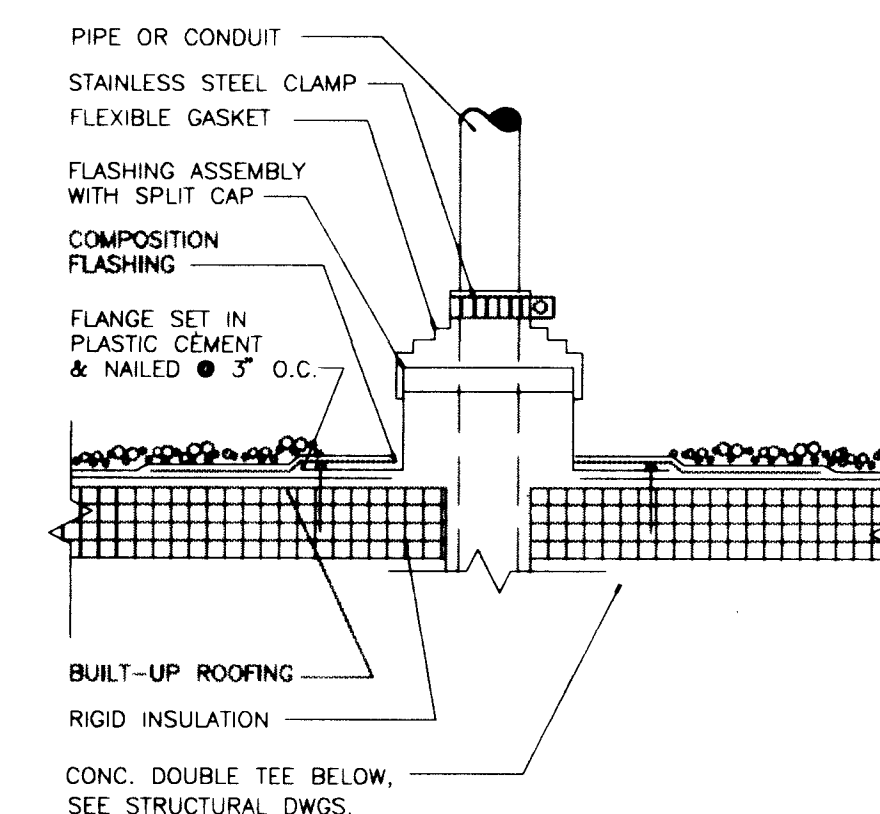


NOTE:
SHIELD GROUNDED AT TERMINATION.
INSTALL GREEN GROUND LEAD AND
CONNECT TO TB FOR EACH PAIR.

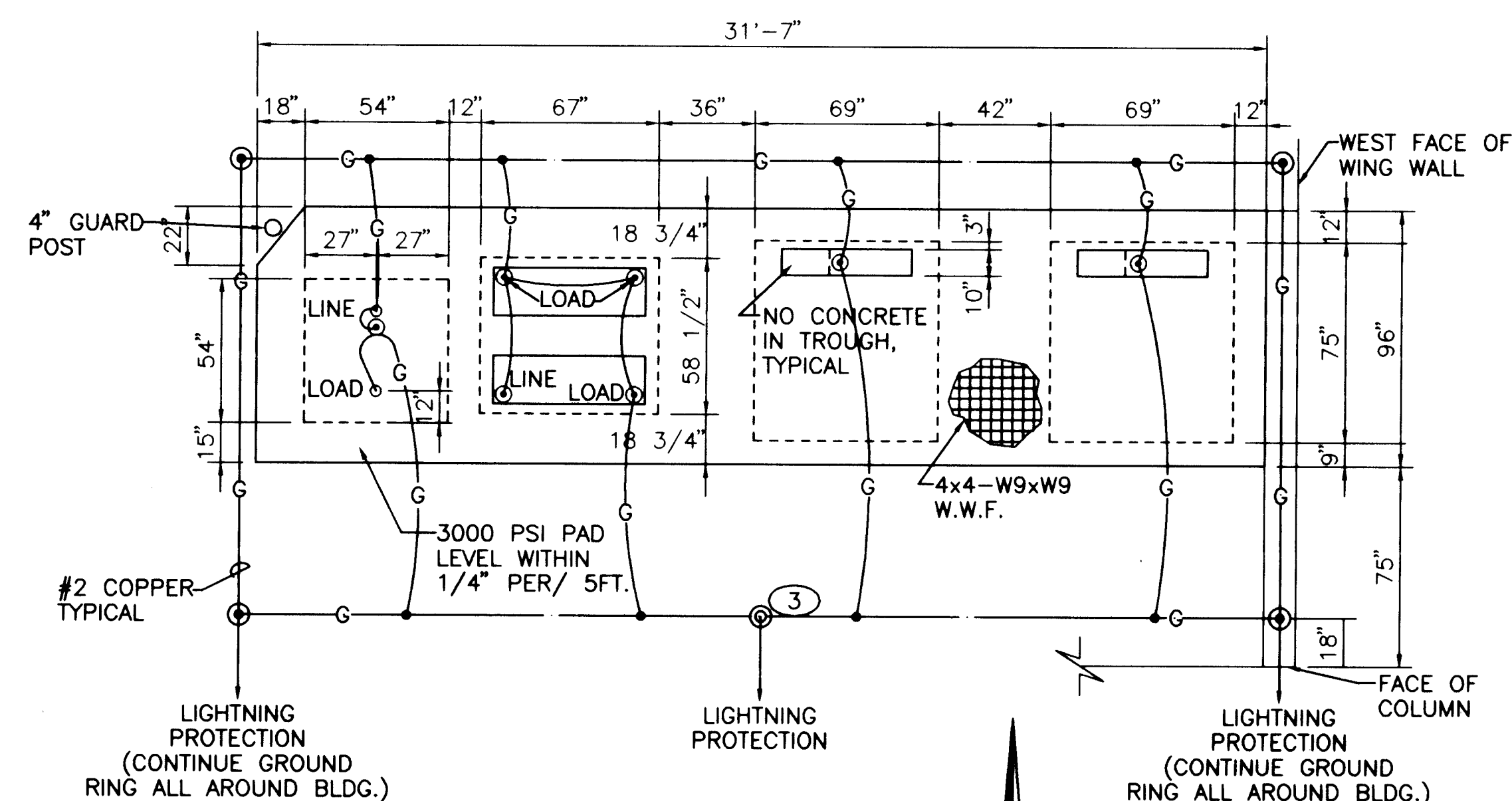
TERMINATION OF SHIELDED
CONTROL CABLE
N.T.S.



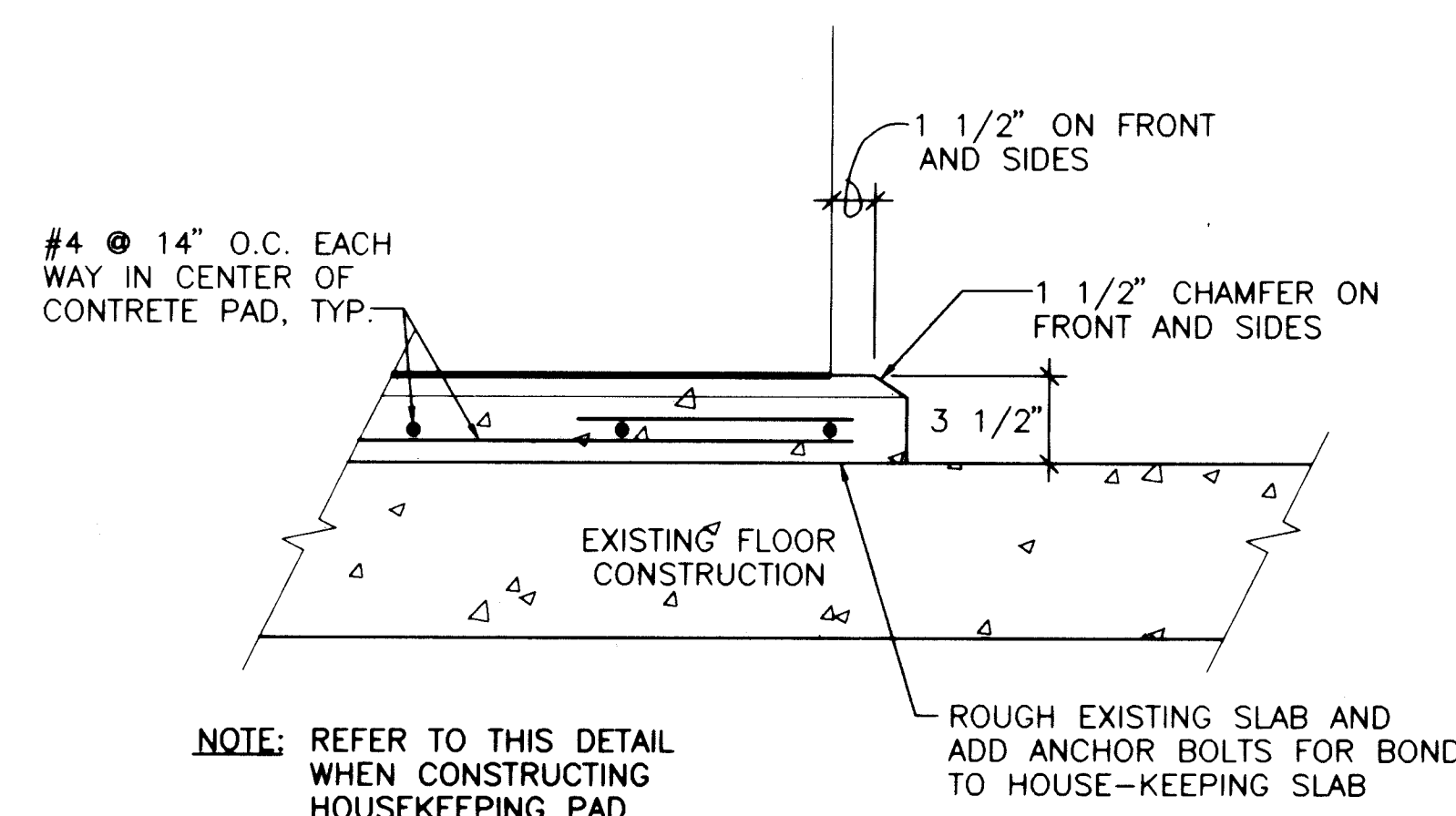
VALVE OPERATOR J-BOX DETAIL
N.T.S.



PIPE OR CONDUIT ROOF PENETRATION DETAIL
1 1/2" = 1'-0"



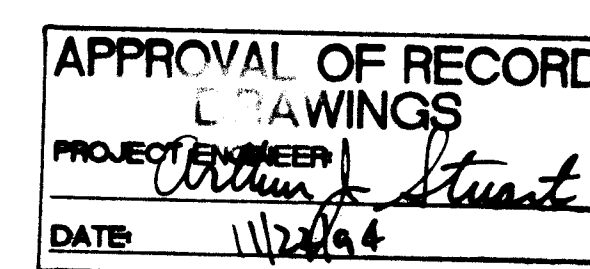
PRIMARY EQUIPMENT PAD
SCALE: 1/4" = 1'-0"



CONCRETE PAD SECTION
N.T.S.

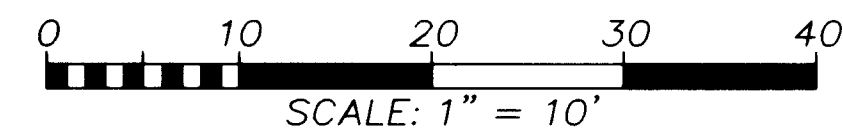
26 4366.943594

SCANNED BY
RY LASON



RECORD DRAWINGS
R. GONZALES Date 7/21/94
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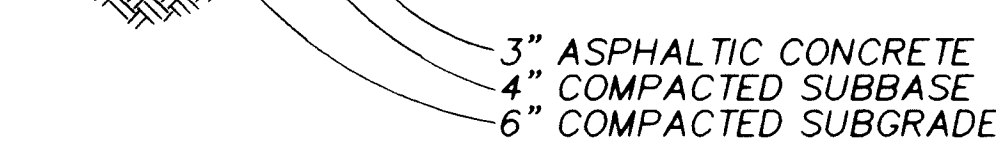
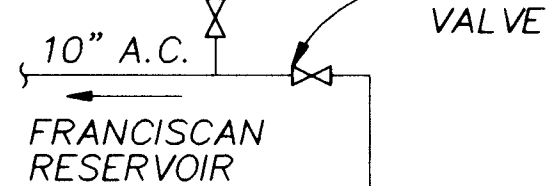
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: COMMON WELL DRAWINGS ELECTRICAL DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					
DRAWING NO. W-E-27		MAP NO.		SHEET OF 35 43	



1. REFERENCE ELEVATION 100.00 IS THE BASIS OF ALL ELEVATIONS ASSOCIATED WITH THIS WORK AND IS LOCATED AT THE FINISH FLOOR OF THE PUMP STATION NORTH DOOR.
2. DEMOLITION OF EXST FLOW METER, VALVES, MANHOLE AND INSTALLATION OF NEW SECTION OF 10" DISCHARGE LINE WILL PERFORMED BY OTHERS.
3. DASHED LINES REPRESENT TEMPORARY WORK BY OTHERS. THIS WORK INCLUDES A TEMPORARY PUMP STATION AND PIPING THAT WILL BE ON-LINE DURING DON P.S. CONSTRUCTION.

4. CONTRACTOR SHALL VERIFY LOCATION OF ALL PIPING PRIOR TO CONSTRUCTION.
5. REMOVE CURB, GUTTER, AND SIDEWALK AS NECESSARY FOR CONSTRUCTION.
6. REMOVE GRASS, PLANTS AND SPRINKLERS AS NECESSARY FOR CONSTRUCTION. REPLACE ALL DAMAGED PLANTS AND GRASS EITHER SIDE OF THE DRIVEWAY. MAINTAIN CONTINUOUS OPERATION OF THE IRRIGATION SYSTEM EFFECTED BY CONSTRUCTION THROUGHOUT CONSTRUCTION.

3. REMOVE EXIST DRIVE PAD, CONSTRUCT STANDARD CURB AND GUTTER AND SIDEWALK IN ACCORDANCE WITH CITY STANDARD DWGS 2415 AND 2438.
4. INSTALL CHAIN LINK FENCE, HEIGHT TO MATCH EXIST AND WIDTH TO PROVIDE CLOSURE OF FENCE. NEW SECTION OF FENCE SHALL BE IN ACCORDANCE WITH CITY STANDARD DWG 2252.
5. CUT EXST 10" PIPE AS REQUIRED TO INSTALL NEW 90° ELBOW. FILL OPEN END OF EXST PIPE W/CONCRETE PLUG AND ABANDON IN PLACE. CONCRETE PLUG SHALL BE FULL PIPE DIAMETER X 3'-0" LONG.
6. PATCH EXST PAVEMENT DISTURBED BY OTHERS IN THE DEMOLITION OF THE EXST FLOW METER, VALVES, MANHOLE AND INSTALLATION OF THE TEMPORARY 10" SUCTION AND DISCHARGE PIPING. PAVEMENT PATCH MSHALL MATCH IN THICKNESS AND FINISH GRADE.



NTS



CUTOFF WALL DETAIL (2)

26 4366.943694

SCANNED BY
BY LASON



ABQ34474.J0/4474DG1A.DWG
1=10
8-23-93

APPROVAL OF RECORD
DRAWINGS
PROJECT ENGINEER
DATE

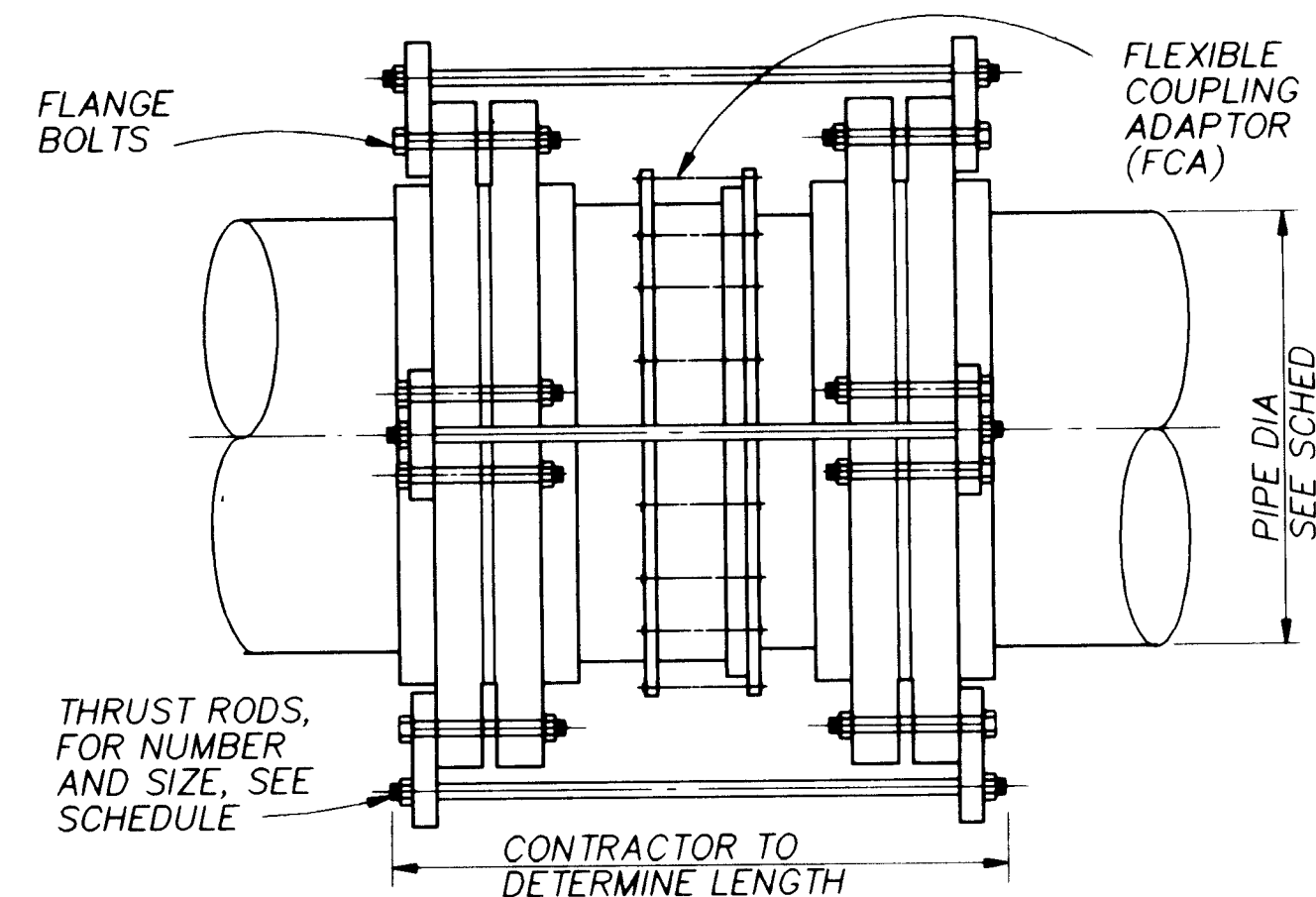
RECORD DRAWINGS

Revisions Drawn by R. GONZALES Date 7/21/94

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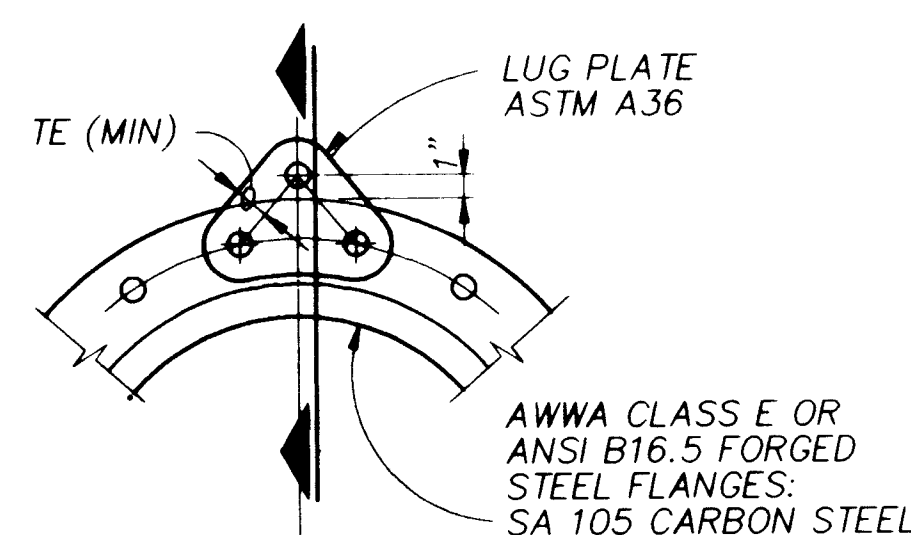
CITY OF ALBUQUERQUE					
PUBLIC WORKS DEPARTMENT					
ENGINEERING DIVISION					
TITLE: ELECTRICAL AND MECHANICAL REHABILITATION					
DON PUMP STATION - SITE PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Waste Water		
Hydrology					
DRAWING NO.		D-G-1		MAP NO. M-8	
				SHEET 36 OF 43	

THRUST ROD AND LUG PLATE SCHEDULE								
PIPE DIA. (IN.)	TEST PRESSURE (PSI)	THRUST RODS (#-DIA)	FLANGE CLASS	FLANGE BOLTS		LUG PLATE		
				NO.	DIA.	MATL	TL	TE
6"	100	2 - 5/8"	AWWA CL E	8	3/4"	A193-B7	3/4"	1 3/8"
	225							
	375							
8"	100	2 - 5/8"	AWWA CL E	8	3/4"	A193-B7	3/4"	1 3/8"
	225							
	375							
10"	100	3 - 5/8"	AWWA CL E	12	7/8"	A193-B7	3/4"	1 3/8"
	225	6 - 5/8"	AWWA CL E	12	7/8"	A307	5/8"	1 3/8"
	375	8 - 5/8"	ANSI 300	16	1"	A307	1"	1 1/2"
12"	100	3 - 5/8"	AWWA CL E	12	7/8"	A193-B7	7/8"	1 1/2"
	225							
	375							
16"	100	8 - 5/8"	ANSI 150	16	1"	A307	7/8"	1 1/2"
	225							
	375							



TYPICAL THRUST TIE DETAIL
FOR STEEL PIPE

NTS



FRONT ELEVATION

LUG

SECTION

NOTES:

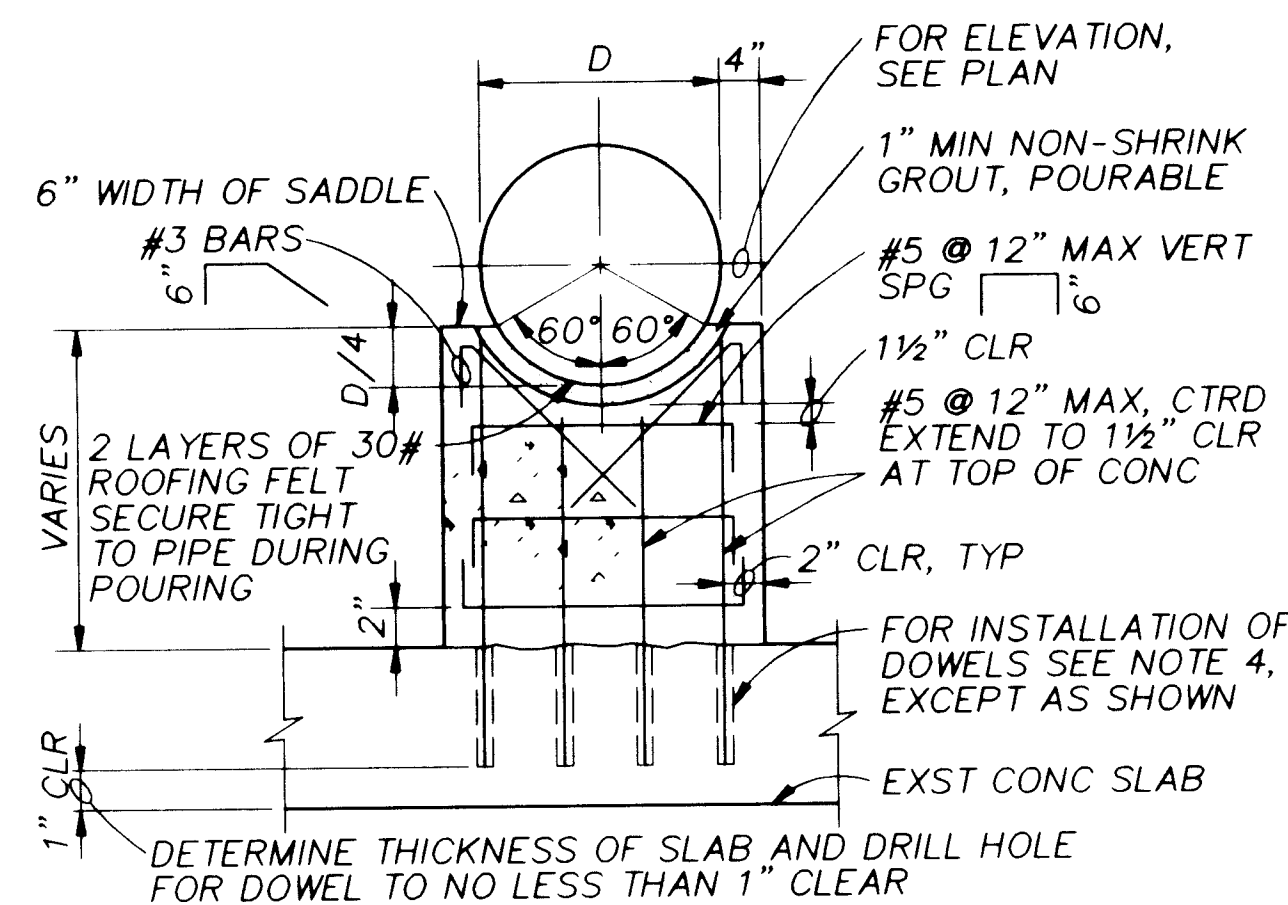
- THRUST RODS SHALL CONFORM TO ASTM A193 GRADE B7.
- NUTS FOR THRUST RODS SHALL CONFORM TO ASTM A194 GRADE 7.
- LUG PLATES SHALL CONFORM TO ASTM A-36.
- THRUST ROD NUTS SHALL BE TIGHTENED GRADUALLY AND EQUALLY IN STAGES TO PREVENT UNEVEN ALIGNMENT AND TO ALLOW EQUAL STRESS ON ALL RODS UNDER PRESSURE. TIGHTEN UNTIL SNUG. THREADS SHALL PROTRUDE FROM NUTS. PEEN THREADS AFTER TIGHTENING NUTS.
- LUG PLATES SHALL BE EQUALLY SPACED AROUND PIPE.
- PROVIDE CATHODIC PROTECTION FOR COUPLINGS AS NOTED ON PLANS OR IN THE SPECIFICATIONS.
- CONTRACTOR SHALL USE SCHEDULE DATA FOR ONLY THOSE PIPE SIZES AND TEST PRESSURES SPECIFIED IN THIS CONTRACT.
- SEE NOTE 13 DETAIL

FLANGE LUG DETAIL/SCHEDULE

NTS

*SEE NOTES		TIE ROD SCHEDULE									
TEST PRESSURE		25 PSI		50 PSI		100 PSI		150 PSI		225 PSI	
PIPE DIA. (IN.)	MINIMUM PIPE WALL THICKNESS (IN.)*	TIE RODS		TIE RODS		TIE RODS		TIE RODS		TIE RODS	
		DIA. (IN.)	NO. REQ'D	DIA. (IN.)	NO. REQ'D	DIA. (IN.)	NO. REQ'D	DIA. (IN.)	NO. REQ'D	DIA. (IN.)	NO. REQ'D
6	3/16	—	—	—	—	5/8	2	5/8	2	5/8	2
8	3/16	—	—	—	—	5/8	2	5/8	2	5/8	2
10	3/16	—	—	—	—	5/8	2	5/8	2	3/4	2
12	3/16	5/8	2	5/8	2	5/8	2	5/8	2	3/4	2
14	3/16	5/8	2	5/8	2	3/4	2	3/4	2	3/4	4
16	3/16	5/8	2	5/8	2	3/4	2	7/8	2	7/8	4

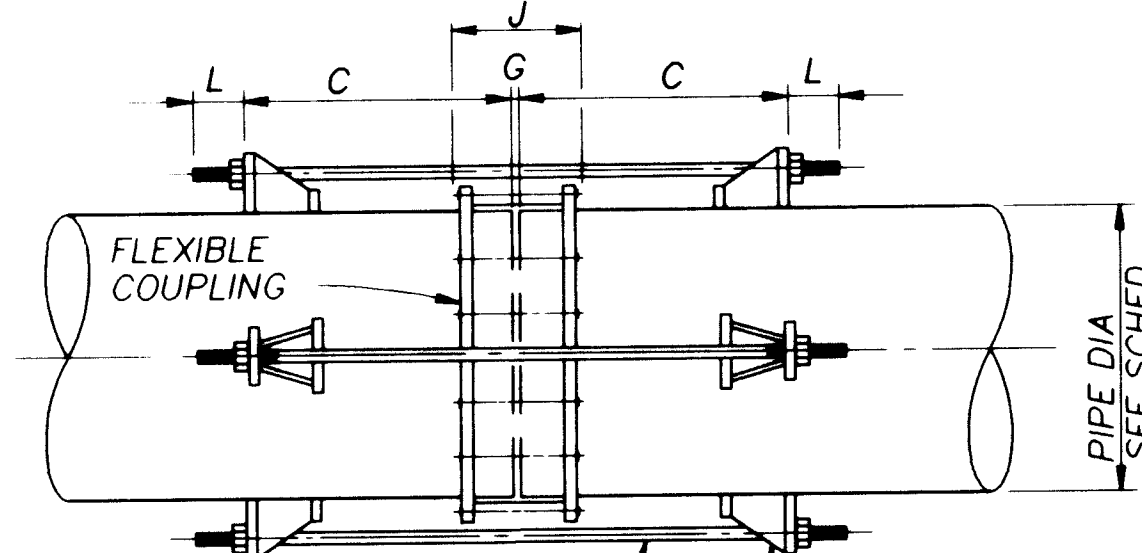
LUG SCHEDULE										
STUD DIA	LUG TYPE	T	W	X	Y	Z	HB	E	HF	L
5/8	I	3/8	1-3/8	4-1/16	4-1/2	3-3/8	3-7/8	3	1-3/4	3
3/4	I	3/8	1-1/2	5	4-1/2	5	4-1/8	3-1/8	1-3/4	3
7/8	I	1/2	1-5/8	5-1/2	4-1/2	5-1/8	4-1/4	3-1/8	1-3/4	4
1	II	1/2	1-3/4	5-3/4	Cont	6	4-1/2	3-1/4	2	4



CONCRETE PIPE SUPPORT

NTS

D-MS-1



TIE RODS, FOR NUMBER AND SIZE, SEE SCHEDULE

NOTES:

- THE MIDDLE RING LENGTH OF THE FLEXIBLE COUPLING SHALL BE AS SPECIFIED.
- THE CONTRACTOR SHALL DETERMINE THE LENGTH "J" (COUPLING BOLT LENGTH) FROM MANUFACTURER'S CATALOGS USING THE SPECIFIED MIDDLE RING LENGTH.
- "G" = MANUFACTURER'S RECOMMENDED SPACE BETWEEN ENDS OF PIPE.
- "C" = J+Z+1 INCH. (ROUND THIS VALUE UP TO NEXT EVEN INCH). MINIMUM. (FOR Z DIMENSIONS, SEE LUG SCHEDULE.)
- TIE ROD LENGTH = 2L+2C+G.

TYPICAL THRUST TIE DETAIL
FOR STEEL PIPE

NTS

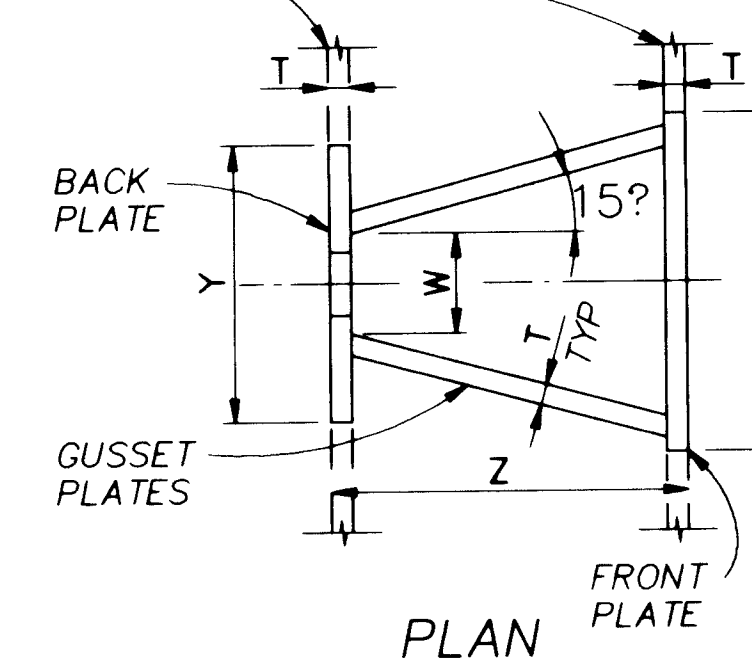
APPROVAL OF RECORD
DRAWINGS

DATE: 11/24/94

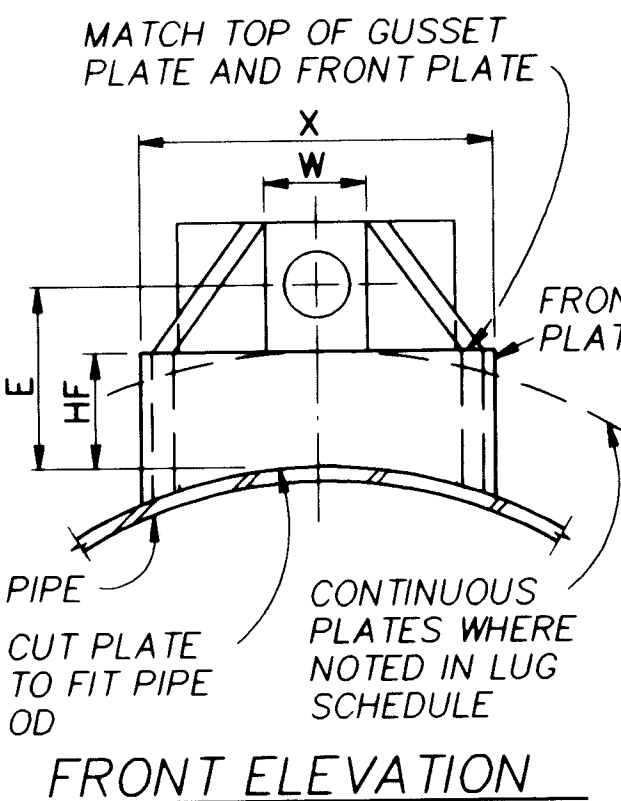
NOTES:

- LUG SCHEDULE DIMENSIONS IN INCHES.
- TIE RODS SHALL CONFORM TO ASTM A193 GRADE B7.
- NUTS SHALL CONFORM TO ASTM A194 GRADE 2H.
- PLATE SHALL CONFORM TO ASTM A283 GRADE D.
- TIE ROD NUTS SHALL BE TIGHTENED GRADUALLY AND EQUALLY IN STAGES TO PREVENT UNEVEN ALIGNMENT AND TO ALLOW EQUAL STRESS ON ALL TIE RODS UNDER PRESSURE. TIGHTEN UNTIL SNUG. THREADS SHALL PROTRUDE FROM NUTS. PEEN THREADS AFTER TIGHTENING NUTS.
- TIE ROD LUGS SHALL BE SPACED EQUALLY AROUND PIPE.
- FILLET WELDS SHALL MEET THE MINIMUM REQUIREMENTS OF THE AISC SPECIFICATION EXCEPT AS FOLLOWS: FILLET WELDS SHALL BE 1/4-INCH MINIMUM EXCEPT WHEN WELDING 3/16-INCH PLATE WHERE THEY SHALL BE 3/16-INCH.
- CATHODIC PROTECTION FOR FLEXIBLE COUPLINGS REQUIRED WHERE NOTED ON PLANS OR IN THE SPECIFICATIONS.
- CONTRACTOR SHALL USE DATA FOR ONLY THOSE PIPE SIZES AND TEST PRESSURES SPECIFIED IN THIS CONTRACT.
- LUG TYPE I IS AS SHOWN IN DETAIL. LUG TYPE II HAS A CONTINUOUS BACK PLATE AROUND PIPE. LUG TYPE III HAS CONTINUOUS FRONT AND BACK PLATES AROUND PIPE.
- TIE RODS SHALL NOT BE ATTACHED TO A PIPE WHEN THE WALL THICKNESS IS LESS THAN THE MINIMUM SHOWN ON THE TIE ROD SCHEDULE.
- THE MINIMUM PIPE WALL THICKNESSES SHOWN ARE TO ENSURE PROPER PERFORMANCE OF THE THRUST TIE LUG. PIPE WALL THICKNESSES GREATER THAN SHOWN IN THE TABLE MAY BE REQUIRED AND MAY BE SHOWN ELSEWHERE OR SPECIFIED ELSEWHERE TO RESIST INTERNAL PRESSURES.
- FOR ALL BURIED ASSEMBLIES, COAT ALL TIE RODS AND EXPOSED STEEL WITH 16 MILS OF BITUMASTIC.

CUT CONTINUOUS PLATES TO UNIFORM HT CONT AROUND PIPE, SEE SCHEDULE

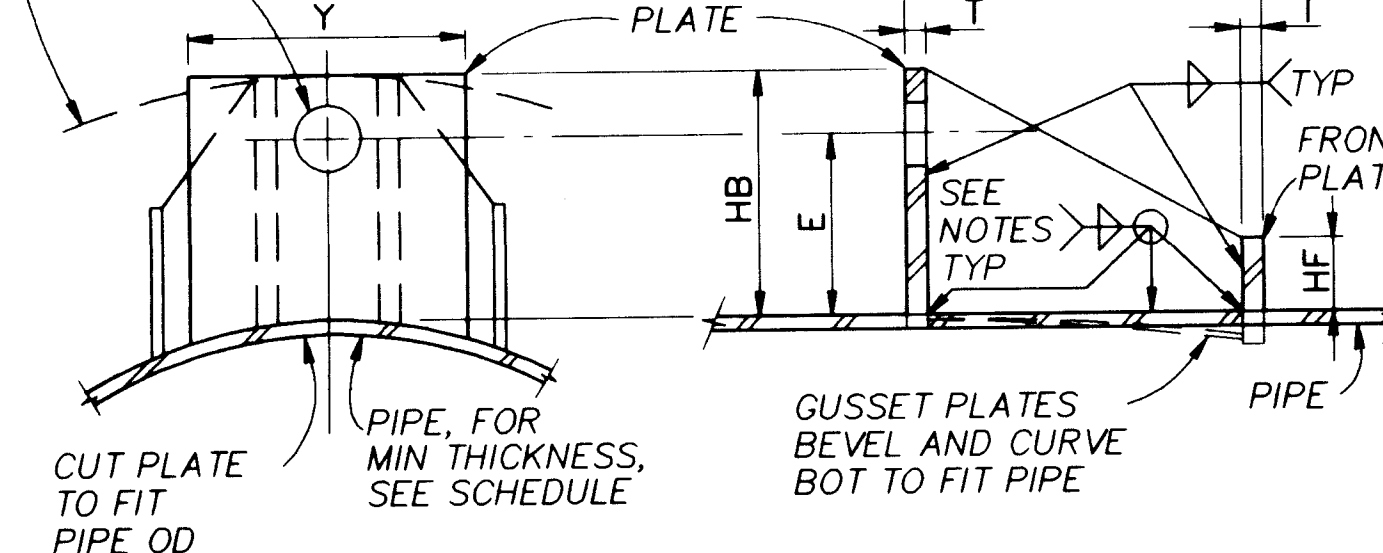


PLAN



FRONT ELEVATION

CUT CONTINUOUS PLATES TO UNIFORM HT CONT AROUND PIPE, SEE SCHEDULE



BACK ELEVATION

SECTION

TIE ROD LUG

NTS

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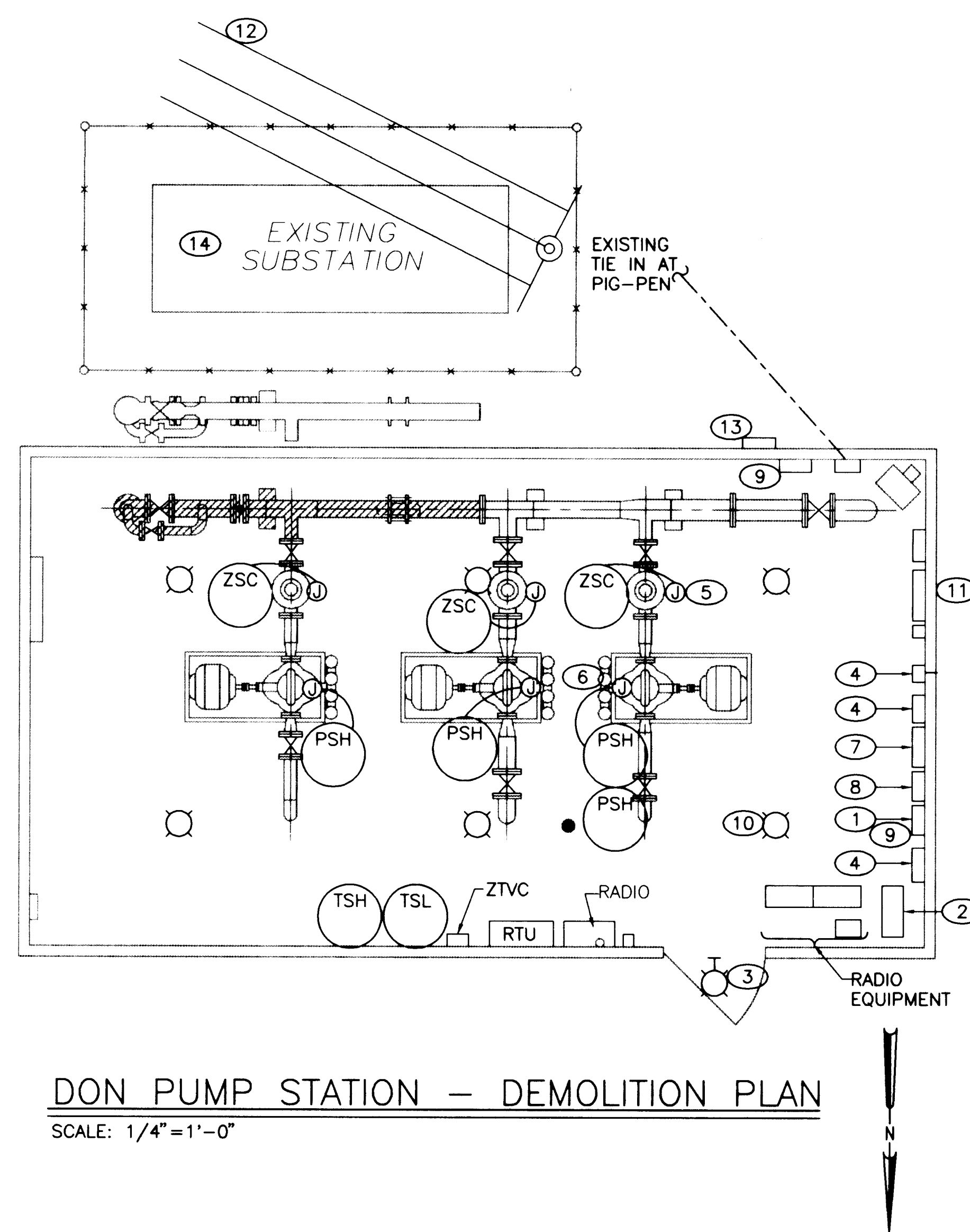
REVIEWED BY: R. LASON

RECORD DRAWINGS

REVISIONS: R. GONZALES Date: 7/21/94



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: ELECTRICAL AND MECHANICAL REHABILITATION DON PUMP STATION - MECHANICAL/ STRUCTURAL DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Waste Water		
Hydrology					
DRAWING NO. D-MS-2		MAP NO.		SHEET 38 OF 43	



DON PUMP STATION - DEMOLITION PLAN

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

GENERAL NOTES

1. OWNER WILL SALVAGE ALL DESIRED EQUIPMENT.

DEMOLITION NOTES,
(REFERENCE SEQUENCE OF CONSTRUCTION)

COMMENCE WORK ONLY AFTER THE TEMPORARY PUMP STATION IS OPERATIONAL.

- 1 REMOVE AND REPLACE THE 120/208 VOLT LIGHTING PANEL (DPA). CONNECT EXISTING CIRCUITS TO NEW DPA. LEAVE THE RADIO, RTU, POLICE RADIO, AND AIR RAID SYSTEM CONNECTED TO THE TEMPORARY PANEL.
- 2 REMOVE THE POWER FACTOR CORRECTION CAPACITORS INCLUDING STANDS, CONDUITS, AND CONDUCTORS BACK TO THE MOTOR STARTERS.
- 3 REMOVE EXISTING EXTERIOR LIGHT. LIGHTING CIRCUIT WILL BE RE-USED.
- 4 REMOVE MOTOR STARTERS. REMOVE FEEDER CONDUCTORS BACK TO THE 480 VOLT PANEL. REMOVE MOTOR POWER CONDUCTORS BACK TO MOTOR. RE-USE EXISTING CONDUITS.
- 5 REMOVE THE EXISTING POSITION SWITCHES FOR THE VALVES. CONTRACTOR MAY RE-USE CONDUCTORS. TYPICAL OF 3.
- 6 PRESSURE SWITCHES WILL BE REMOVED BY OTHERS. CONTRACTOR MAY RE-USE CONDUCTORS. TYPICAL OF 4.
- 7 REMOVE THE 480 VOLT DISTRIBUTION PANEL. REMOVE FEEDER CONDUCTORS BACK TO METERING ENCLOSURE. REMOVE FEEDER CONDUIT TO GRADE AND GROUT.
- 8 REMOVE 7.5 KVA TRANSFORMER AND ITS FEEDER BACK TO THE 480 VOLT PANEL.
- 9 REMOVE THE OLD DPA FEEDER CONDUIT AND CONDUCTORS.
- 10 REMOVE THE INTERIOR LIGHT FIXTURES. PRESERVE CONDUITS AND CONDUCTORS FOR RE-CONNECTION.
- 11 MOVE POWER FEED CONDUCTORS FOR THE RADIO, RTU, POLICE RADIO, AND AIR RAID SYSTEM FROM THE TEMPORARY PANEL TO THE NEW LIGHTING PANEL.
- 12 ARRANGE WITH PNM TO REMOVE THE THREE PHASE, 4 WIRE OVERHEAD LATERAL FEED TO THE EXISTING SUBSTATION.
- 13 REMOVE THE METER ENCLOSURE. REMOVE FEEDER CONDUIT AND CONDUCTORS.
- 14 REMOVE THE "PIG-PEN" SUBSTATION COMPLETELY, REMOVE RISER POLE AND RISER (IF REQUIRED), FENCING AND PAD. NOTE THAT THE TRANSFORMERS HAVE "PCB" LABELS, DISPOSE OF THE TRANSFORMERS AND THEIR FILL FLUID PROPERLY.

NOTE: AFTER POWER FROM NEW SUBSTATION HAS BEEN CONNECTED, PROCEED WITH DEMOLITION.

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	WORK	DATE	NO.	BY	DATE	NO.	BY	DATE	THESE DRAWINGS WERE MODIFIED USING AUTOCAD AND RE-PLOTTED FOR RECORD PURPOSES AND THEREFORE DO NOT HAVE THE ENGINEER'S STAMP OR OTHER SIGNATURES THAT APPEAR ON THE ORIGINAL CONTRACT DRAWINGS.		
INSPECTOR	INSPECTED	DATE	NO.	BY	DATE	NO.	BY	DATE			
ACCEPTANCE BY	ACCEPTANCE	DATE	REVISIONS			DESIGN			DESIGNED BY APC		
VERIFICATION BY	VERIFICATION	DATE	REVISIONS			DESIGN			DRAWN BY RLA/JKH		
DATE	DATE	DATE	REVISIONS			DESIGN			CHECKED BY SES		
DATE	DATE	DATE	REVISIONS			DESIGN			DATE 5-93		
DATE	DATE	DATE	REVISIONS			DESIGN			DATE 5-13-93		
DATE	DATE	DATE	REVISIONS			DESIGN			DATE 5-93		

VERIFIED
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APPROVAL OF RECORD
DRAWINGS
DATE 11/22/94

RECORD DRAWINGS
R. GONZALES Date 7/21/94
THESE RECORD DRAWINGS HAVE BEEN PREPARED IN PART, ON THE BASIS OF INFORMATION COMPLIED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: DON PUMP STATION DEMOLITION PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Waste Water		
Hydrology					
DRAWING NO. D-E-1		MAP NO.		SHEET 39 OF 43	

1. ONCE THE TEMPORARY PUMP STATION IS FUNCTIONAL, THE CITY WILL NOTIFY THE CONTRACTOR TO BEGIN THE RENOVATION.
2. COORDINATE WITH PNM TO GET A NEW POLE (IF REQUIRED), RISER, AND TRANSFORMER FOR THE NEW PAD MOUNTED SERVICE.
3. ONCE THE RENOVATION IS COMPLETE REMOVE THE EXISTING "PIG-PEN" AND METERING ENCLOSURE COMPLETELY.

- ① PROVIDE NAMEPLATES AS SHOWN.
- ② TRANSIENT SUPPRESSOR BY LEVITON TVSS 5100 SERIES, OR ENGINEER APPROVED EQUIVALENT.



N.T.S.

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SCANNED BY
BY LASON



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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: DON PUMP STATION
ONE-LINE, MCC ELEVATION, AND
TEMPORARY ONE-LINE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					
DRAWING NO. D-E-3			MAP NO. SHEET 41 OF 43		

POWER					
TAG	SIZE	CONDUCTOR	FROM	TO	REMARKS
P001	4"	PNM	PNM RISER POLE	METERING ENCLOSURE	CONTRACTOR TO RUN CONDUIT AND BUILD RISER TO PNM SPECS ALL PRIMARY UNDERGROUND TO BE CONCRETE ENCASED
P002	4"	3#2 15KV, 1#2, GND	METERING ENCLOSURE	STATION XFMR PRIMARY	
P003	4"	4#500MCM, 1#2 GND	STATION XFMR SECONDARY	MCU MAIN DISCONNECT	
P004					NOT USED CONTRACTOR MAY USE EXISTING CONDUIT CONTRACTOR MAY USE EXISTING CONDUIT CONTRACTOR MAY USE EXISTING CONDUIT STATION POWER
P005	1"	3#4, 1#8 GND	MCU	PUMP 1	
P006	1"	3#4, 1#8 GND	MCU	PUMP 2	
P007	1"	3#4, 1#8 GND	MCU	PUMP 3	
P008	1"	4#6, 1#8 GND	MCU	PANEL DPA	
P009	3/4"	3#10, 1#10 GND	MCU	EVAP. COOLER DISC.	
P010	3/4" FLEX	3#10, 1#10 GND	EVAPORATIVE COOLER DISCONNECT	EVAP. COOLER	
P011	3/4"	2#10, 1#10 GND	DPA	10" MAG FLOW METER	

POWER					
TAG	SIZE	CONDUCTOR	FROM	TO	REMARKS
C001	3/4"	4#12	DPA	EVAPORATIVE COOLER	PUMP POWER: SPARE
C002	3/4"	2#14	HEATING THERMOSTAT	HEATER	
C003	3/4"	MFG. SUPPLIED	MAG FLOW METER	MAG TRANS/INDICATOR	PUMP 1 PUMP 2 PUMP 3
C004	3/4"	4#14	PSH-107-12, FSH-107-11	RTB	
C005	3/4"	4#14	PSH-107-22, PSH-107-21	RTB	
C006	3/4"	4#14	PSH-107-32, PSH-107-31	RTB	PUMP 1 PUMP 2 PUMP 3
C007	3/4"	6#14	MCU	RTB	
C008	3/4"	6#14	MCU	RTB	
C009	3/4"	6#14	MCU	RTB	

ENGINEER'S SEAL				SURVEY INFORMATION				BENCH MARKS				AS BUILT INFORMATION											
THESE DRAWINGS WERE MODIFIED USING AUTOCAD AND REPLOTTED FOR RECORD PURPOSES AND THEREFORE DO NOT HAVE THE ENGINEER'S STAMP OR OTHER SIGNATURES THAT APPEAR ON THE ORIGINAL CONTRACT DRAWINGS.				FIELD NOTES																			
				NO.		BY		DATE															
NO.		DATE		REMARKS		BY																	
REVISIONS																							
DESIGN																							
DESIGNED BY		APC		DATE		5-93																	
DRAWN BY		RIA		DATE		5-13-93																	
CHECKED BY		SES		DATE		5-93																	

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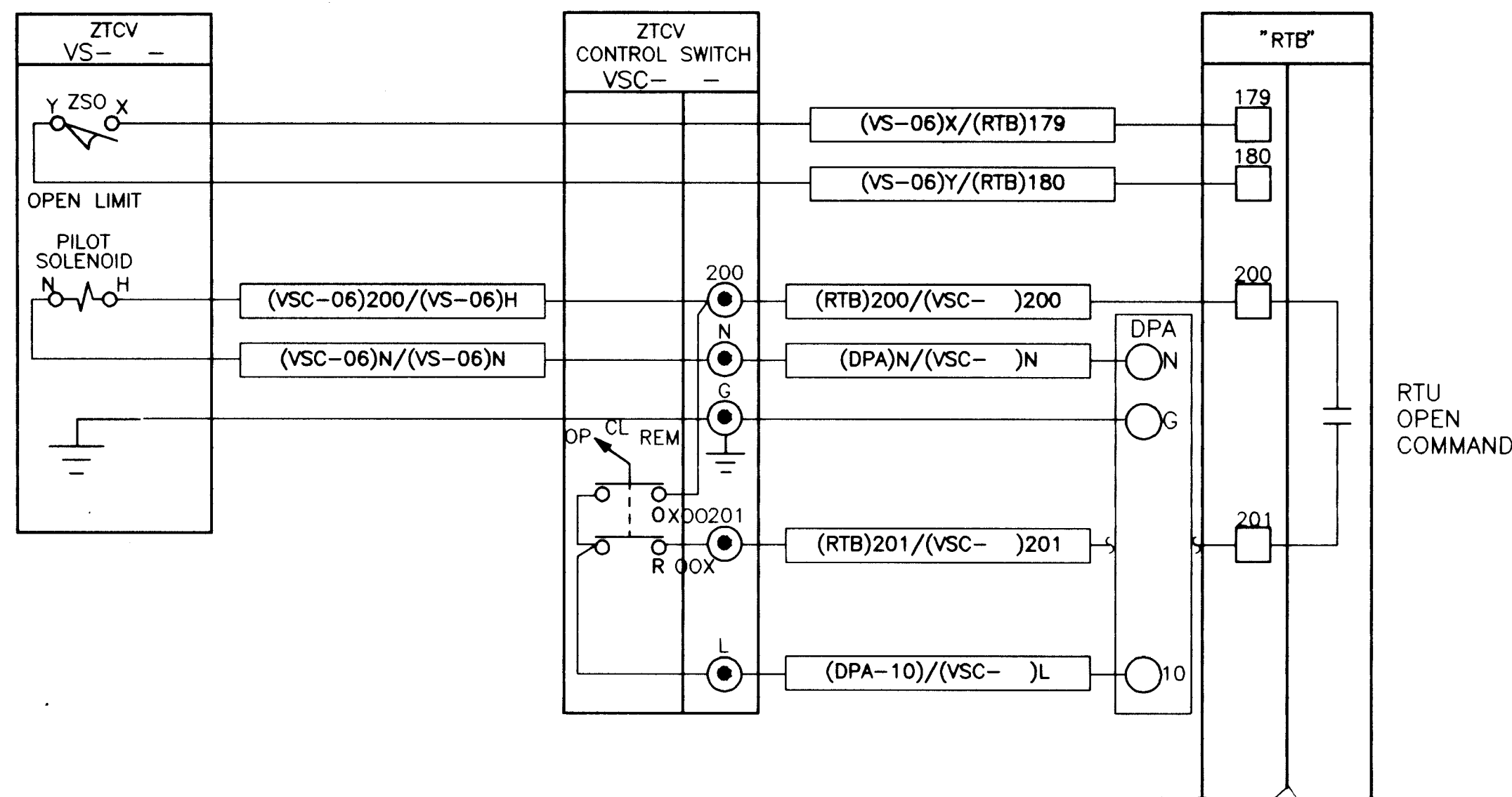
SCANNED BY
BY TASON

APPROVAL OF RECORD
DRAWINGS
PROJECT ENGINEER
DATE

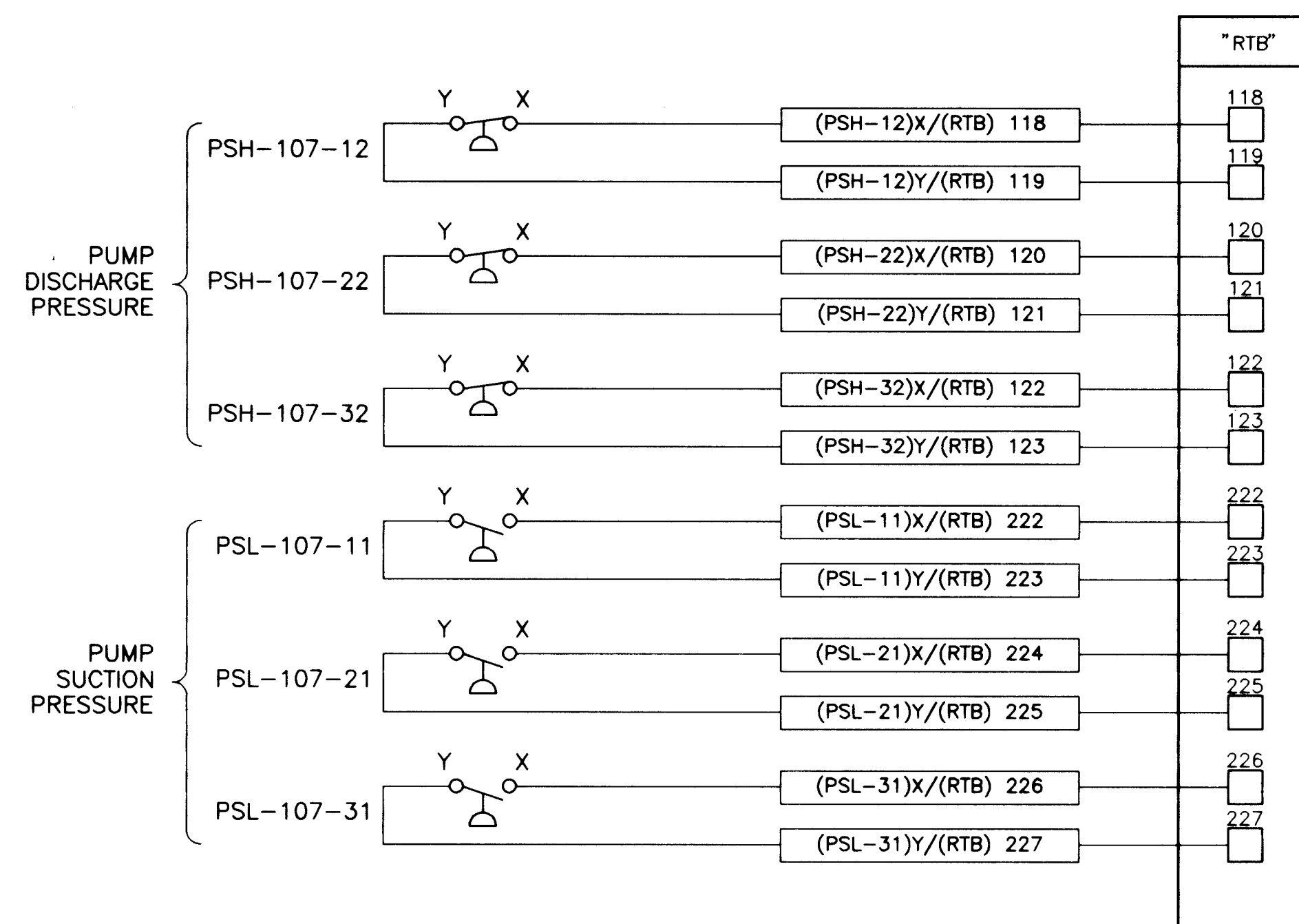
RECORD DRAWINGS
Revisions Drawn by: R. GONZALES Date: 7/21/94
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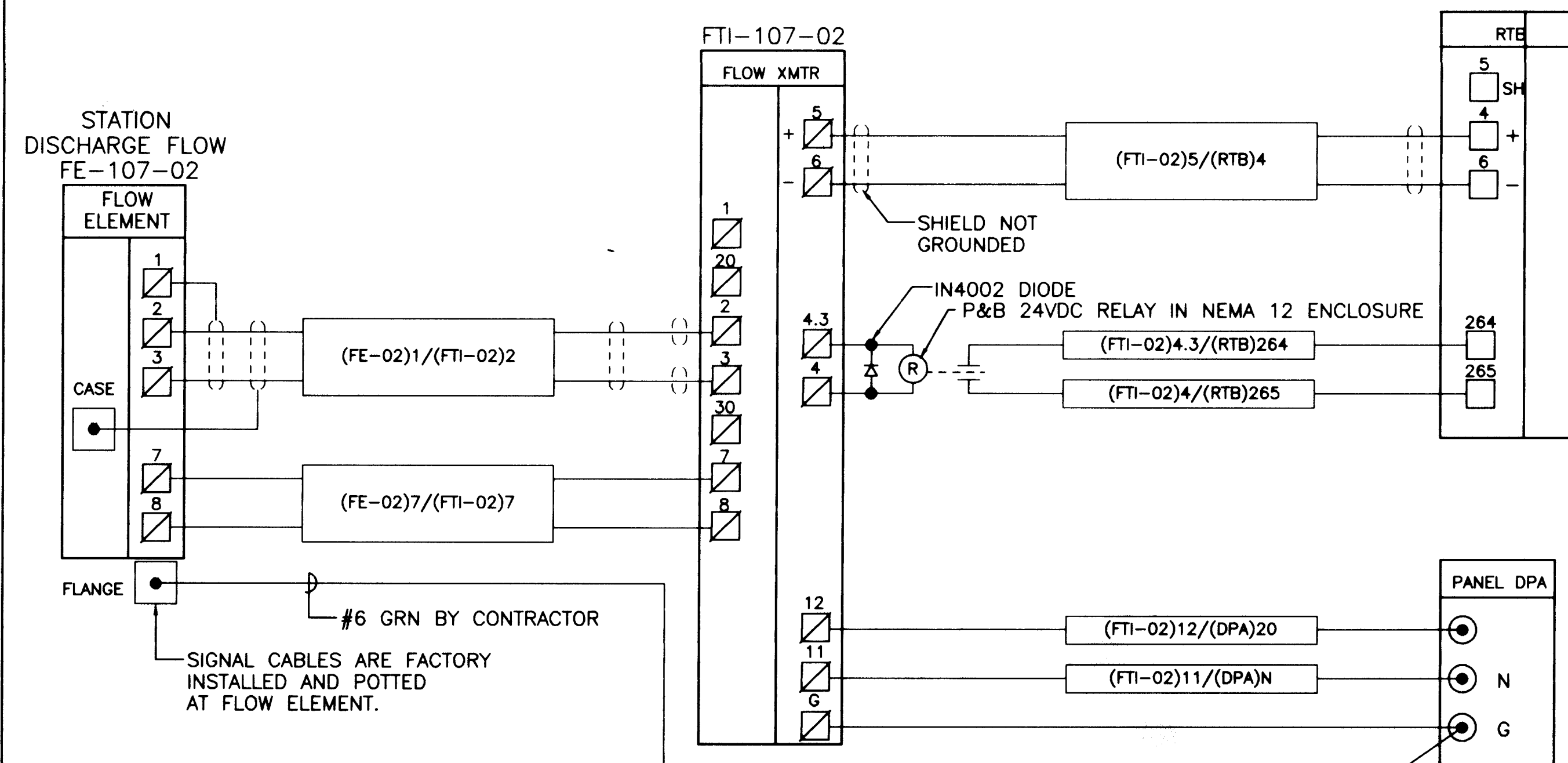
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: DON PUMP STATION CONDUIT SCHEDULES					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					
DRAWING NO. D-E-4		MAP NO.		SHEET 42 OF 43	



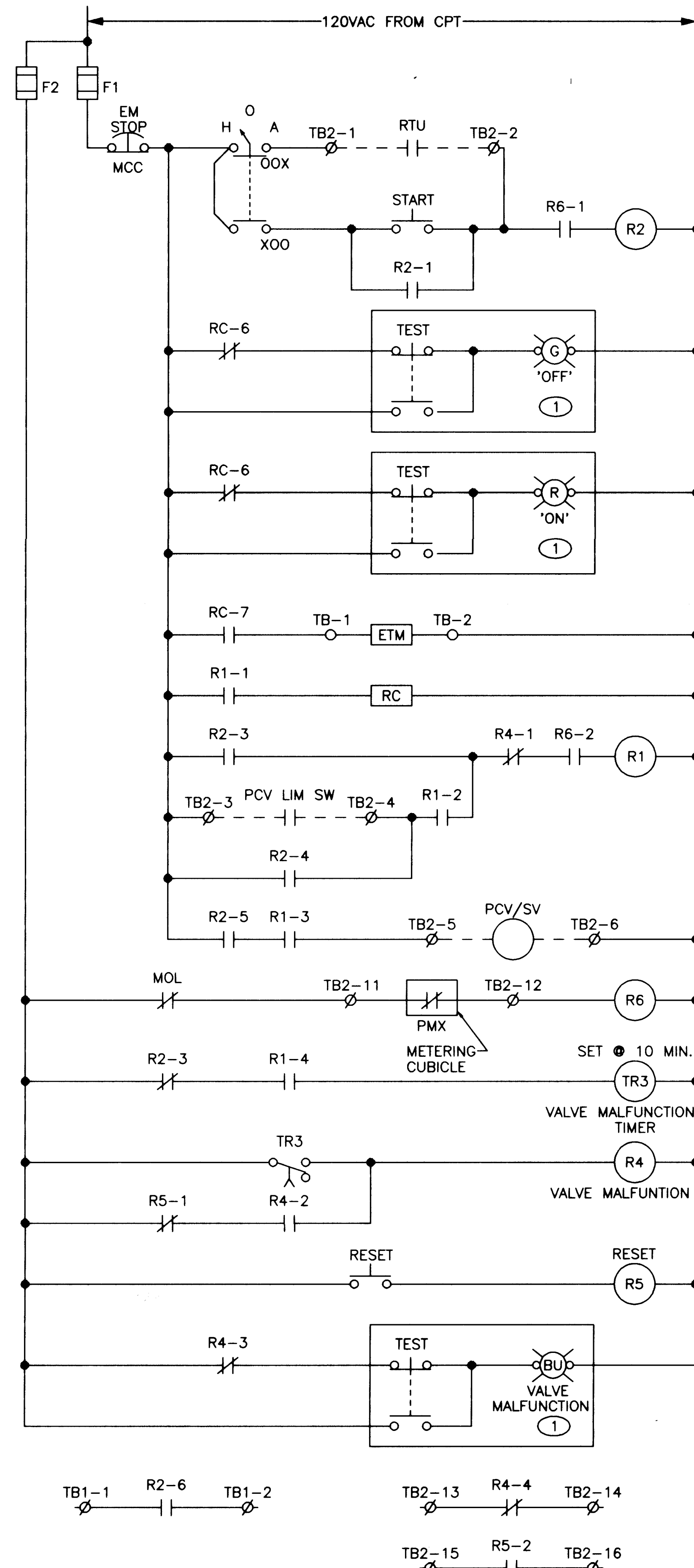
ZONE TRANSFER ISOLATION VALVE PARTIAL INTERCONNECTION



PRESSURE SWITCH INTERCONNECTION



STATION DISCHARGE FLOW INTERCONNECTION DIAGRAM



DON PUMP STATION PUMP SCHEMATIC

APPROVAL OF RECORD DRAWINGS
PROJECT ENGINEER
DATE 7/21/94

RECORD DRAWINGS
R. GONZALES
7/21/94
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

NOTES

- UNIT IS A PUSH LENS TO TEST LAMP.
- ALL CONTROL CONNECTIONS AND CONNECTIONS TO RTB ARE REQUIRED, SIMILAR TO DIAGRAM SHOWN ON SHEET W-E-23. ENGINEER WILL PROVIDE CONNECTION DIAGRAM AFTER AWARD OF CONTRACT.

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: DON PUMP STATION ZTCV SCHEMATIC AND MISC. DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					
DRAWING NO. D-E-5		MAP NO.		SHEET 43 OF 43	