

CITY OF ARLINGTON LIFT STATION 2 REHABILITATION

SPRING/SUMMER 2017

PROJECT VICINITY MAP



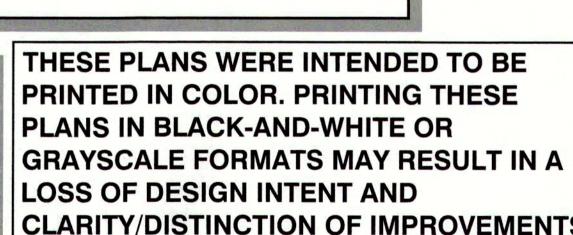
CONTACT PERSONNEL

	ELECTRIC DESIGNATION OF THE PROPERTY OF THE PR	WASHINGTON TO STREET THE
CONTACT	AGENCY	PHONE
JAMES X. KELLY (PUBLIC WORKS DIRECTOR)	CITY OF ARLINGTON	360.403.3526
FRED RAPELYEA (WASTEWATER UTILITY SUPERVISOR)	CITY OF ARLINGTON	360.403.3540
DAN BURWELL, P.E. (PROJECT MANAGER)	RH2 ENGINEERING	425.951.5342
ORIN PAUL (STAFF ENGINEER)	RH2 ENGINEERING	425.951.5303
DAVID WOOD	SNOHOMISH COUNTY PUD NO. 1	360.435.7508
JAMES HOBBS	CASCADE NATURAL GAS	360.336.3876

CALL 48 HOURS BEFORE YOU DIG **ONE CALL 811**

REPORT ALL SPILLS **DEPT. OF ECOLOGY 1-800-258-5990**

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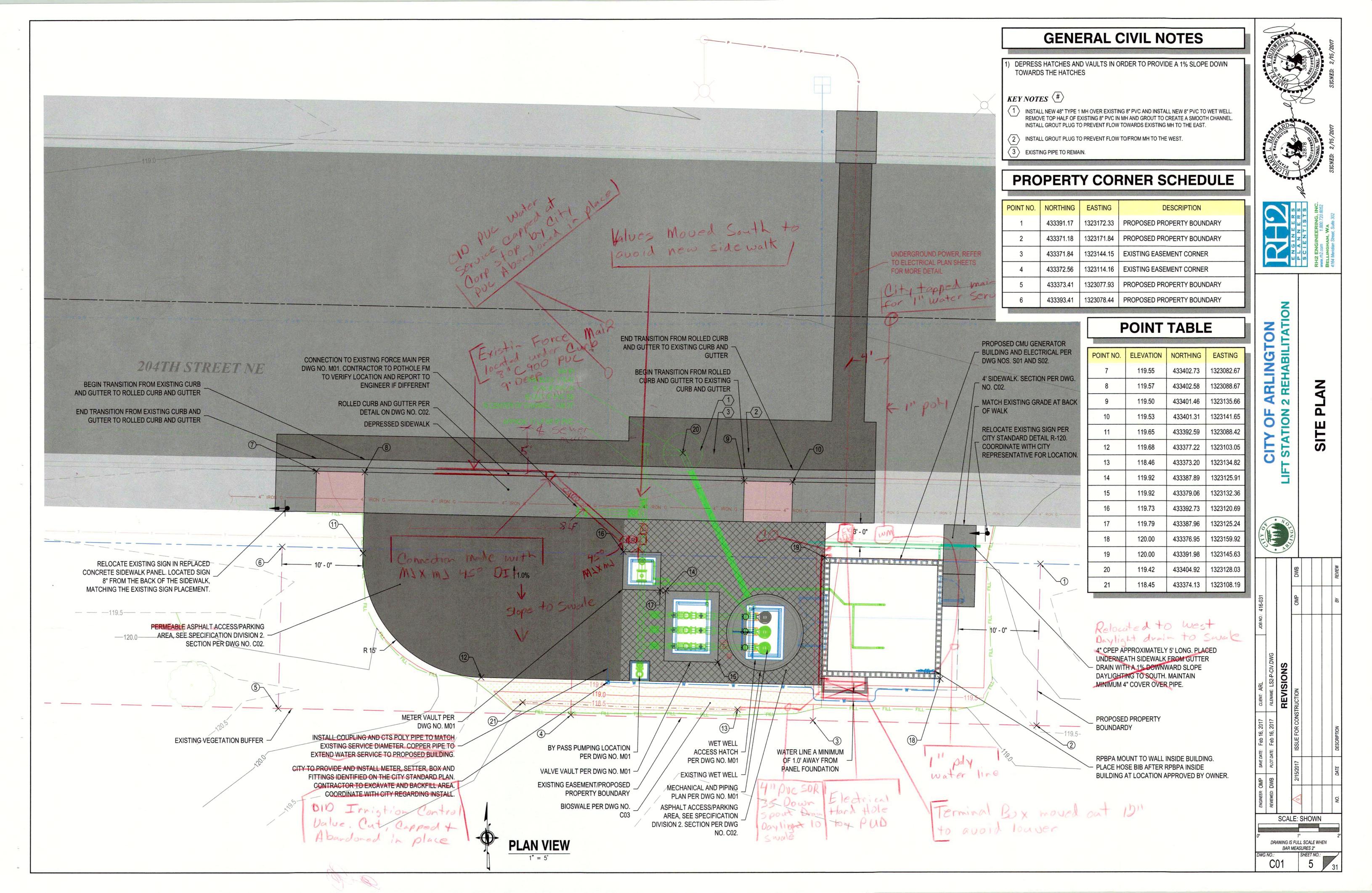


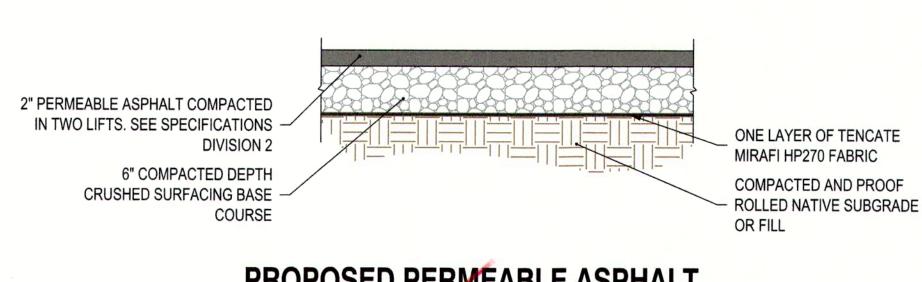


Feb. 16, 2017 LS2-P-COV.DWG

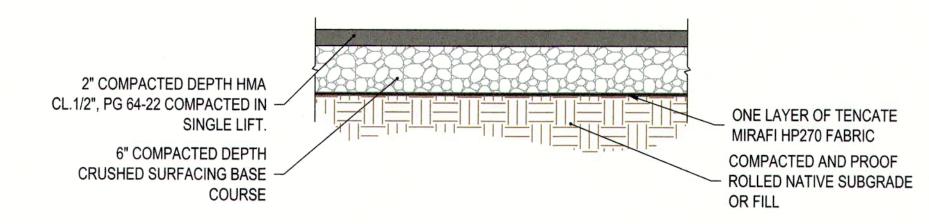




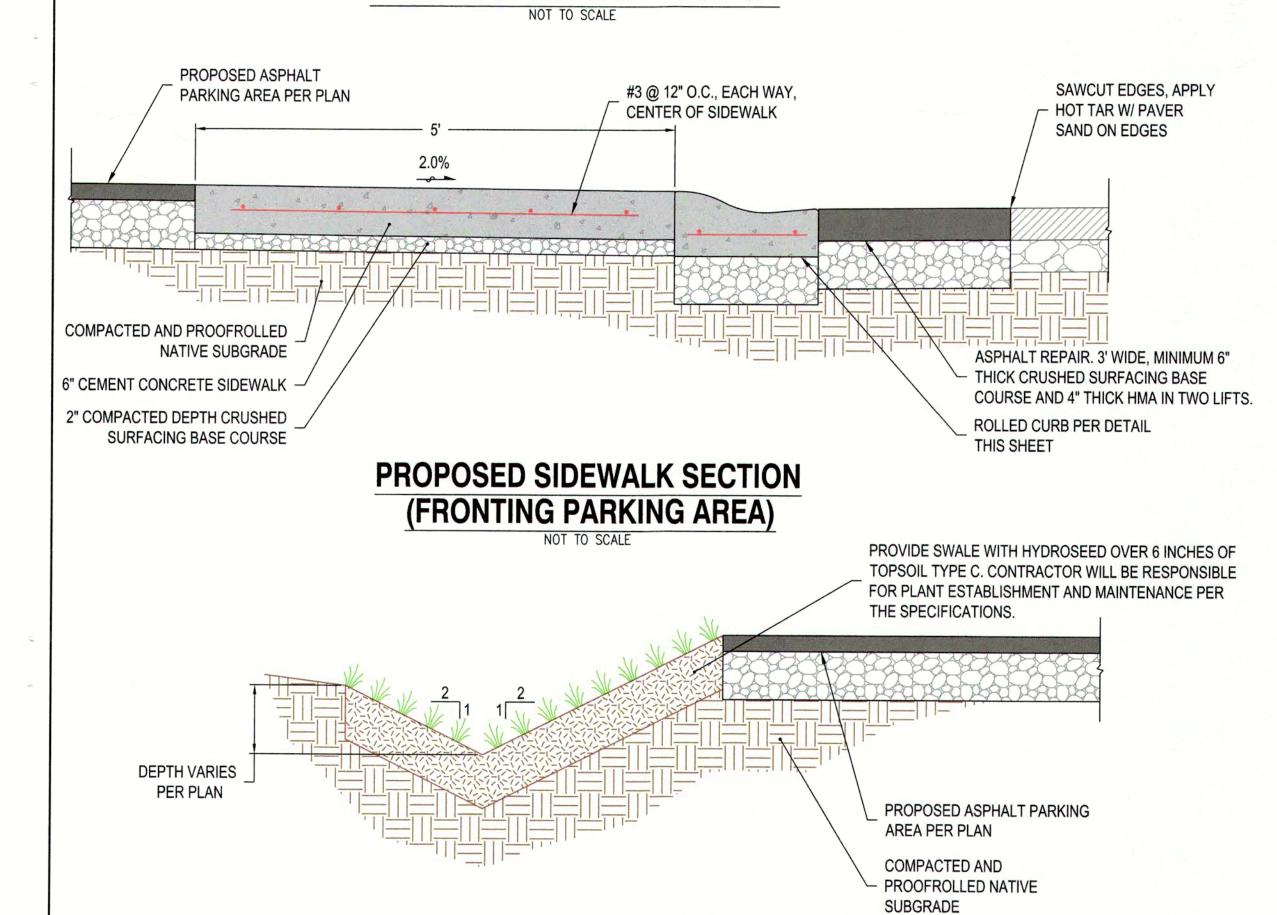




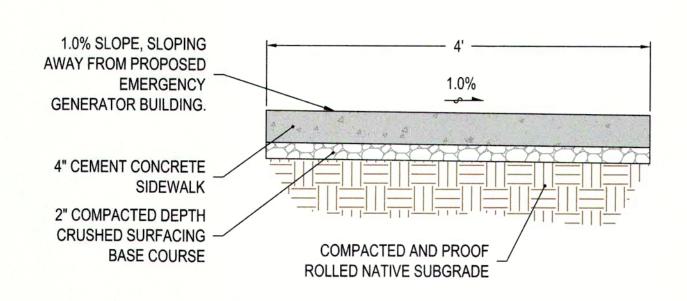
PROPOSED PERMEABLE ASPHALT SECTION NOT TO SCALE



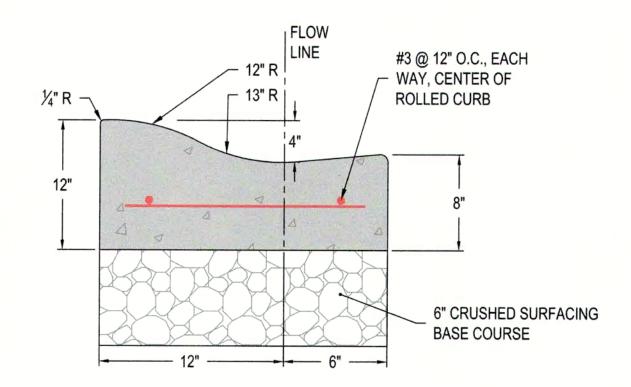
PROPOSED ASPHALT SECTION



PROPOSED SWALE SECTION

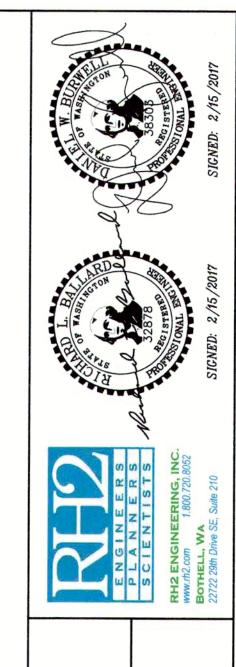


PROPOSED WALKWAY SECTION NOT TO SCALE



ROLLED CURB DETAIL NOT TO SCALE'

NOTE: SEE CITY STANDARD PLANS IN SPECIFICATION APPENDICES FOR SIDEWALKS AND STANDARD CURB AND GUTTER



CITY OF ARLINGTON
T STATION 2 REHABILITATION
SITE DETAILS

CALL TO LO

 ENGINEER: OMP
 SAVE DATE: Feb 15, 2017
 CLIENT: ARL
 JOB NO: 416-031

 REVIEWED: DWB
 PLOT DATE: Feb 16, 2017
 FILENAME: LS2-D-DET.DWG

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 PLOT DATE: Feb 16, 2017
 FILENAME: LS2-D-DET.DWG

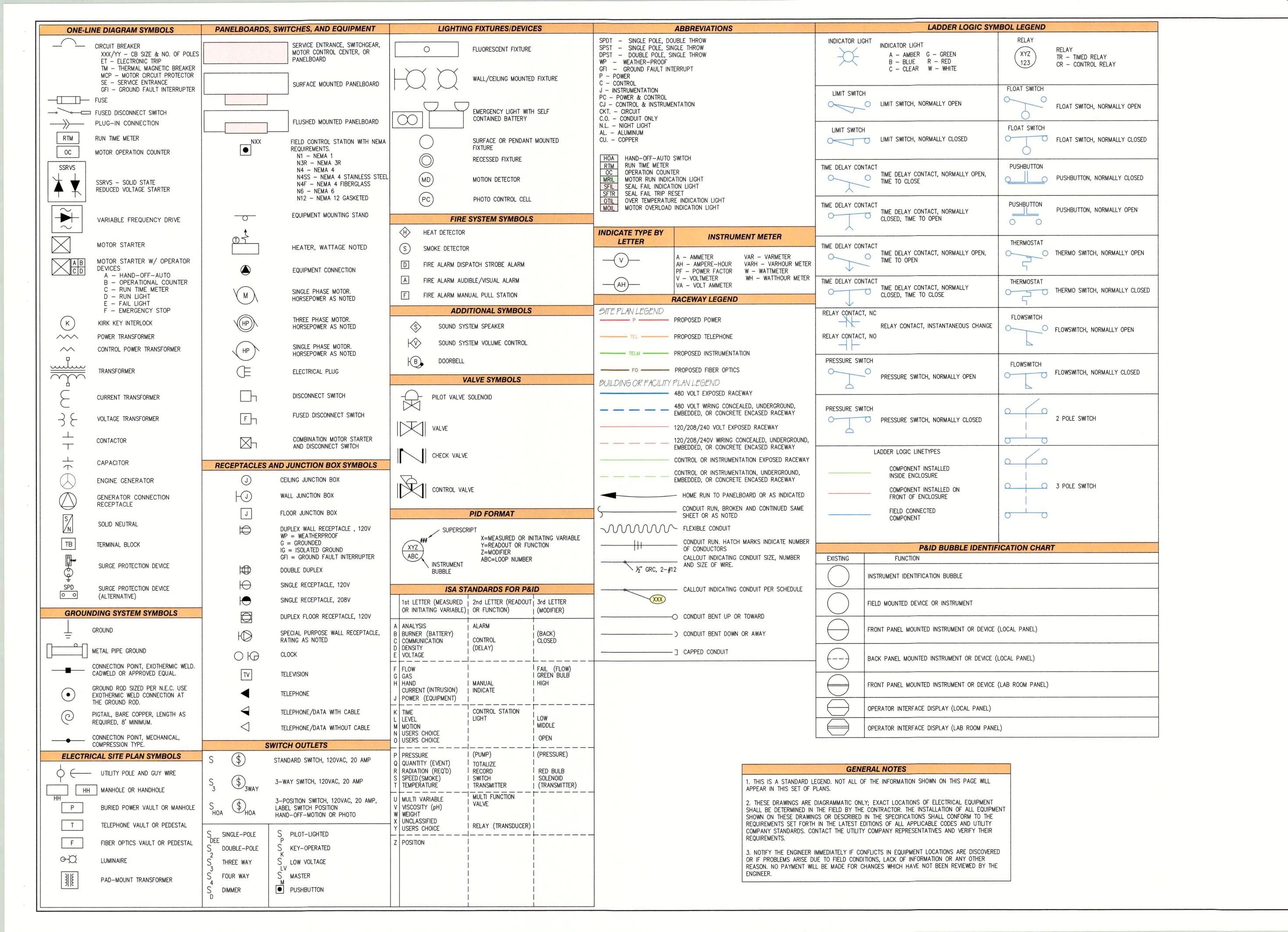
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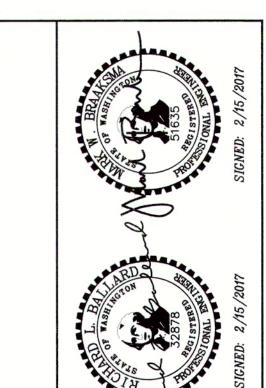
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CITY OF ARLINGTON T STATION 2 REHABILITATI

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FEVIENCE RICHARD SAVE DATE: Feb 15, 2017 CLIENT: ARL JOB NO.: 416-031

REVIENCE MWB PLOT DATE: Feb 16, 2017 FILENAME: LS2-D-ELEC01.DWG

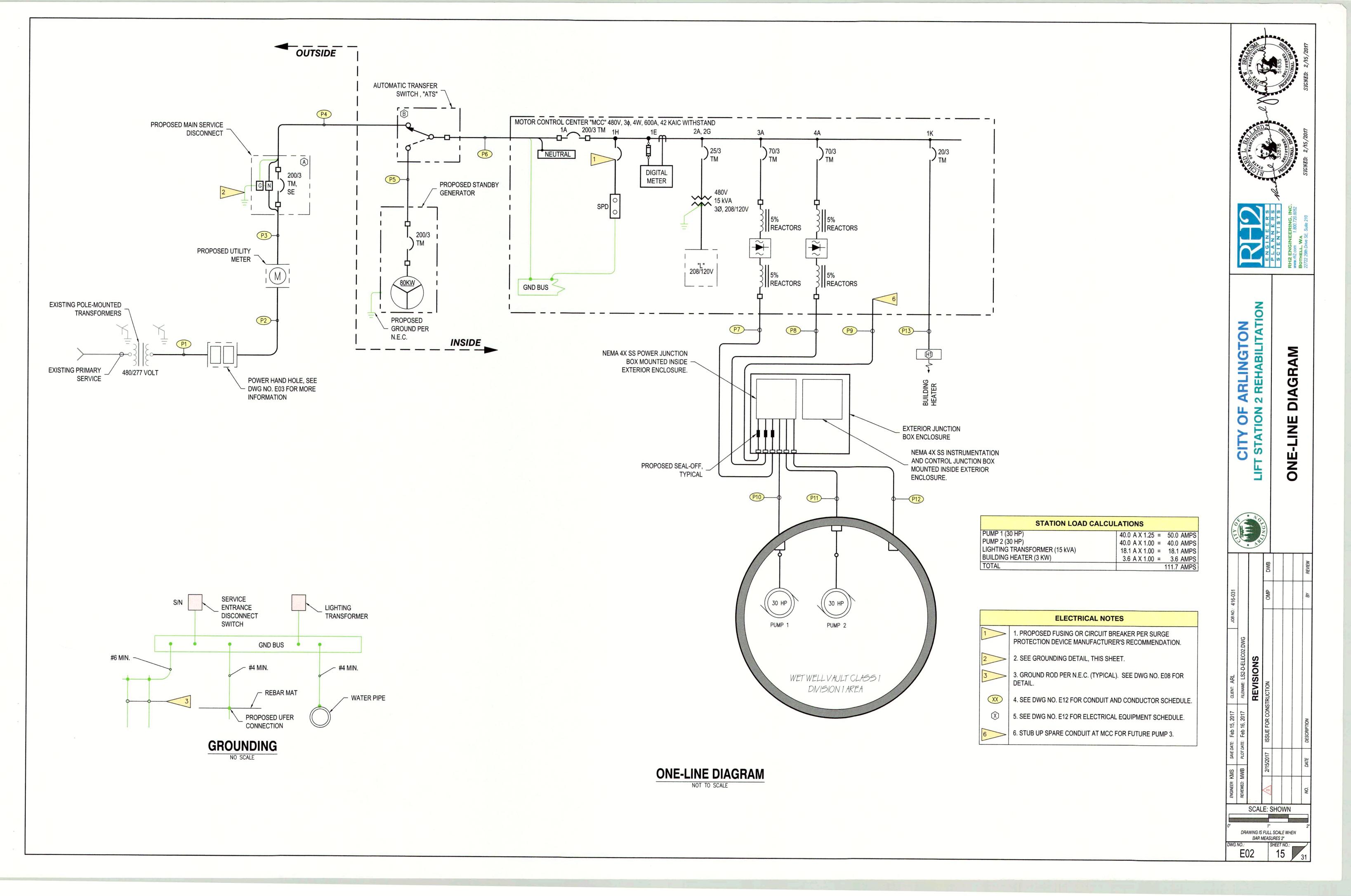
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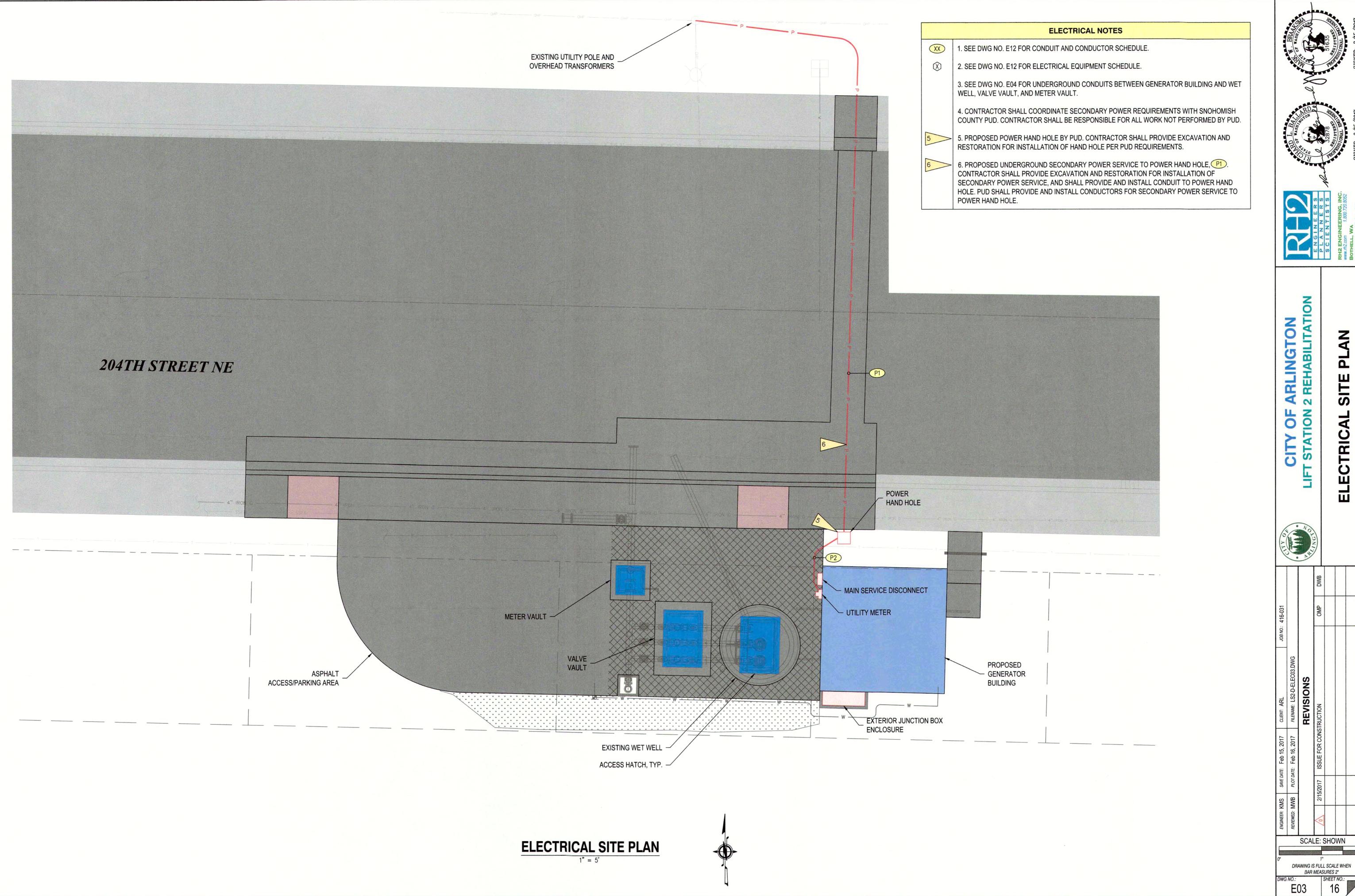
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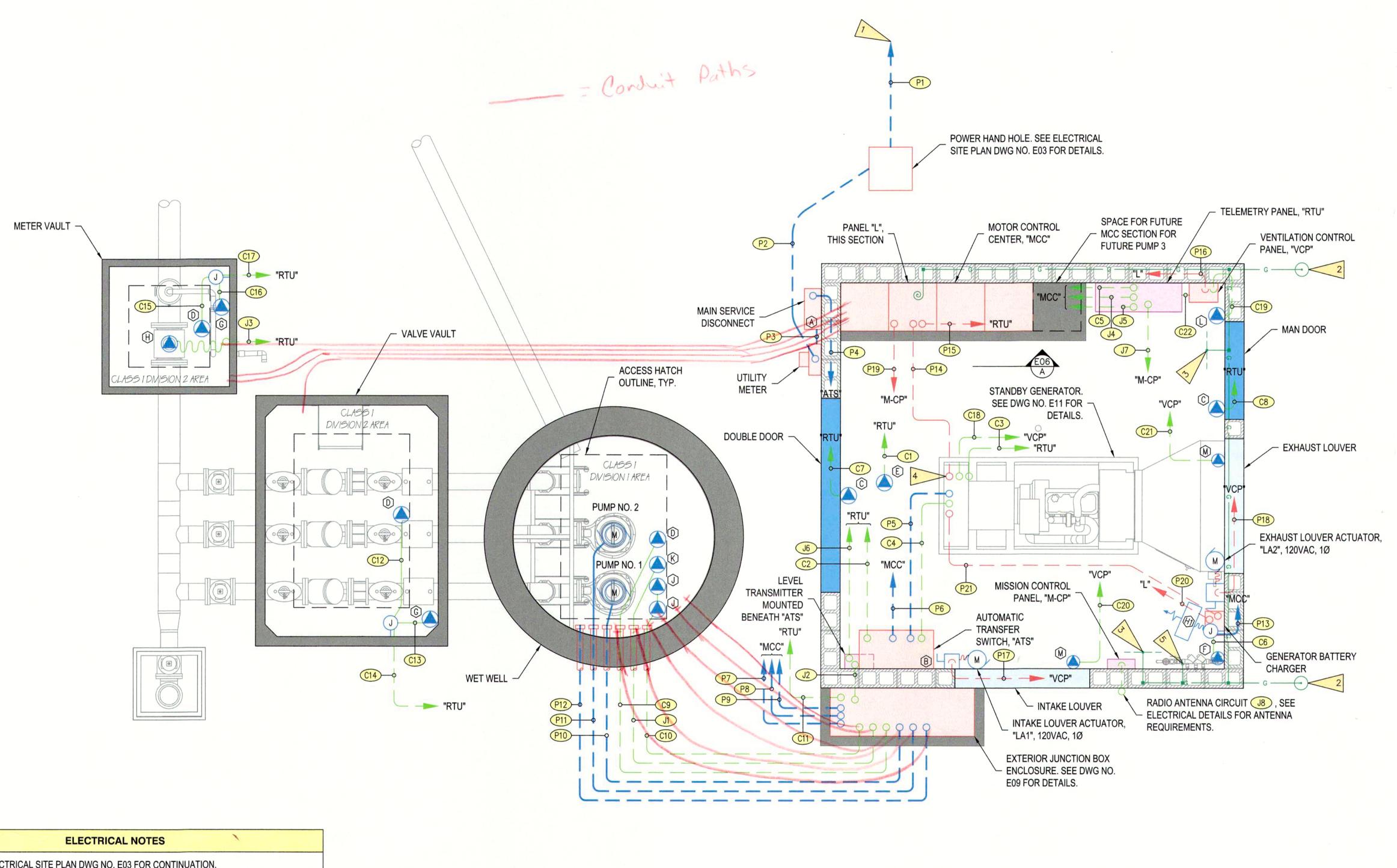
DWG NO.: SHEET NO.:

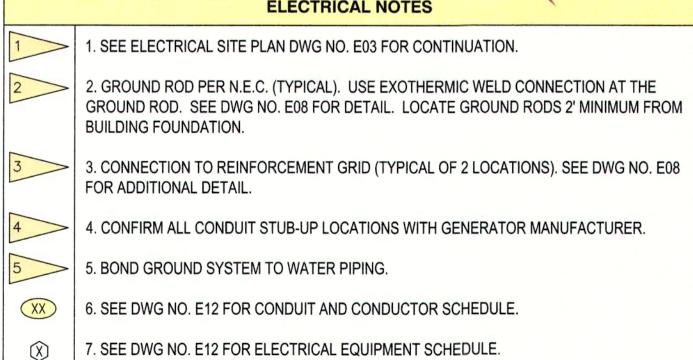






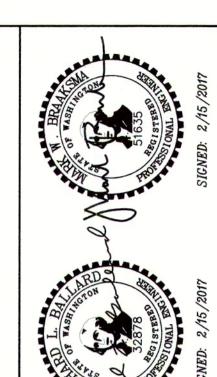






POWER DISTRIBUTION AND SIGNAL PLAN





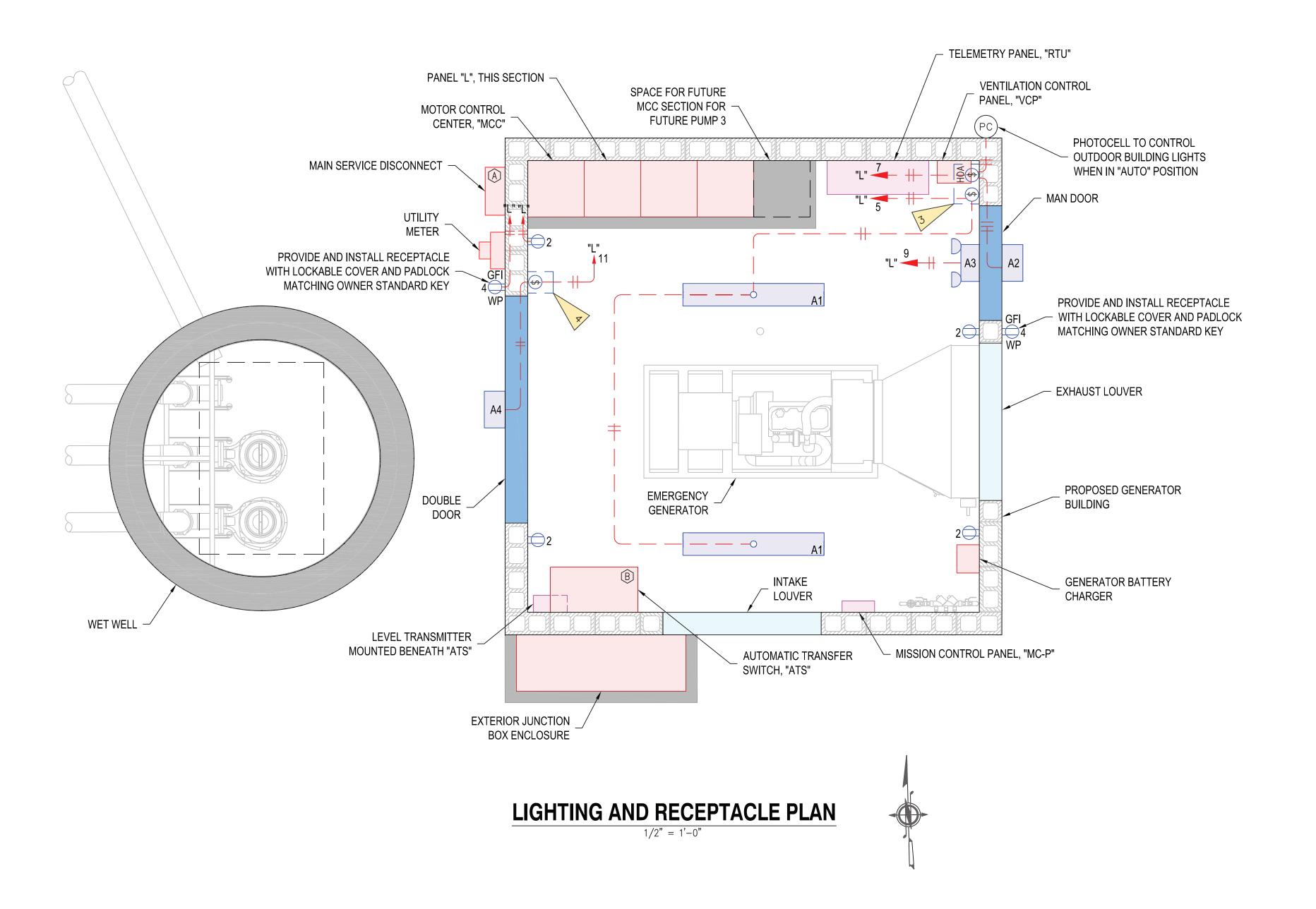


SIGNAL

ARLINGTON 2 REHABILITATION AND DISTRIBUTION / CITY OF T STATION EB

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ELECTRICAL NOTES

1. PROVIDE AND INSTALL LABELS FOR ALL LIGHT SWITCHES. LABELS SHALL INDICATE THE DEVICE CONTROLLED BY THE SWITCH.

2. LOCATE ALL LIGHT FIXTURES, SWITCHES, AND DEVICES IN LOCATION SHOWN ON THE PLANS USING ENGINEERING SCALE. ADJUST LOCATION AS NECESSARY TO AVOID INTERFERENCE WITH OTHER EQUIPMENT.

3. DOUBLE GANG BOX AND SWITCH RECESSED IN WALL.

4. SINGLE GANG BOX AND SWITCH RECESSED IN WALL.

A# 5. SEE DWG NO. E12 FOR LIGHTING FIXTURE SCHEDULE.

(X) 6. SEE DWG NO. E12 FOR ELECTRICAL EQUIPMENT SCHEDULE.



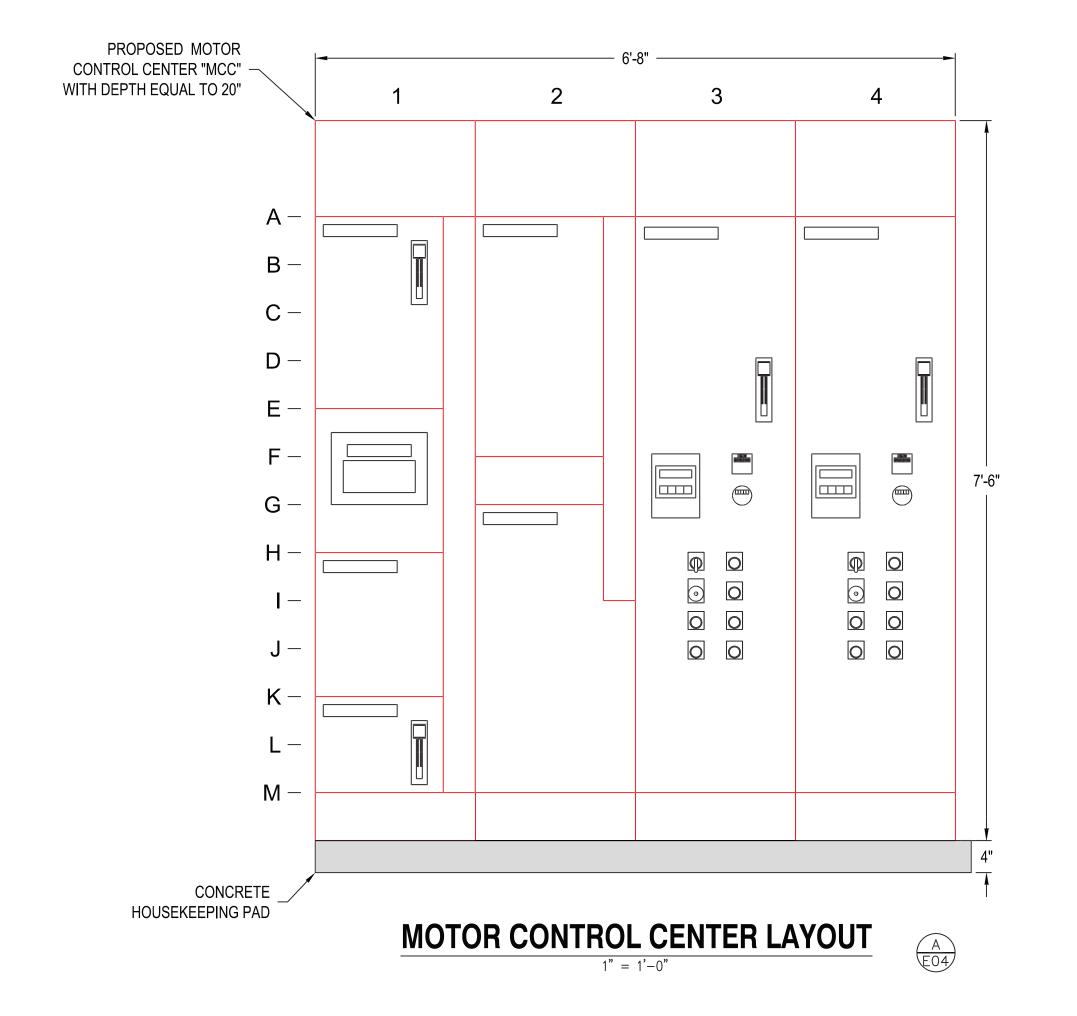
ARLINGTON 2 REHABILITATION

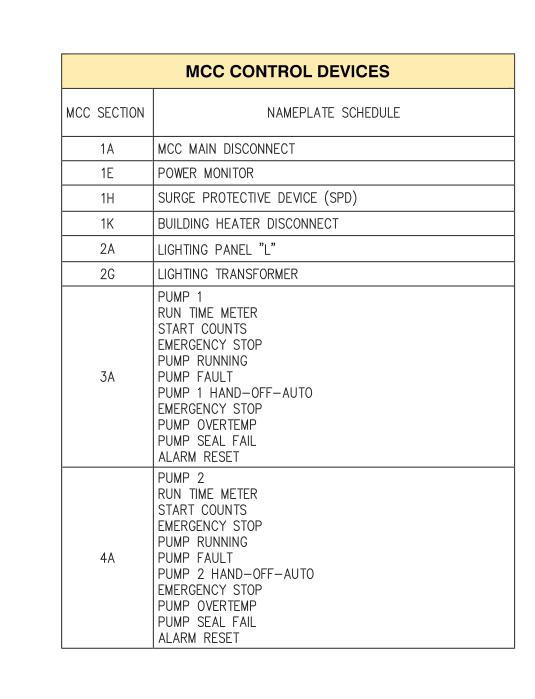
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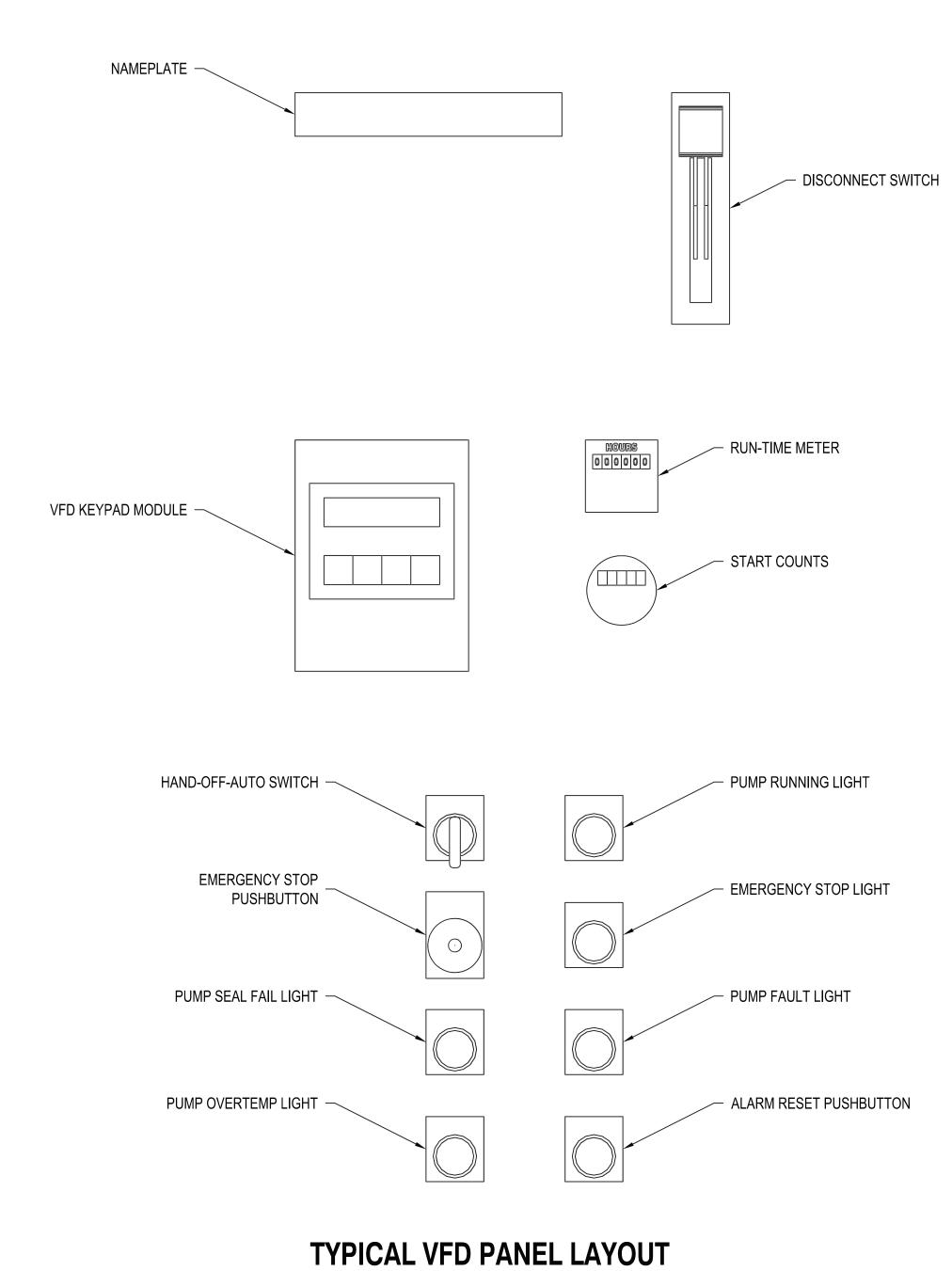
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			DWB			
JOB NO.: 416-031			OMP			
JOB NO.						
CLIENT: ARL	FILENAME: LS2-D-ELEC05.DWG	REVISIONS	TRUCTION			
ENGINEER: KMS SAVE DATE: Feb 16, 2017	PLOT DATE: Feb 16, 2017		2/15/2017 ISSUE FOR CONSTRUCTION			
AS SAVE	NB PLO:		2/15/2017			
ENGINEER: KN	REVIEWED: MWB		\bigcirc			
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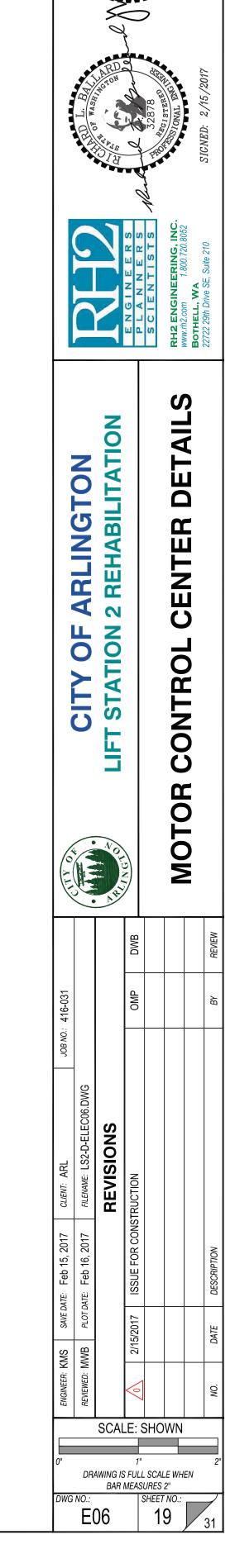


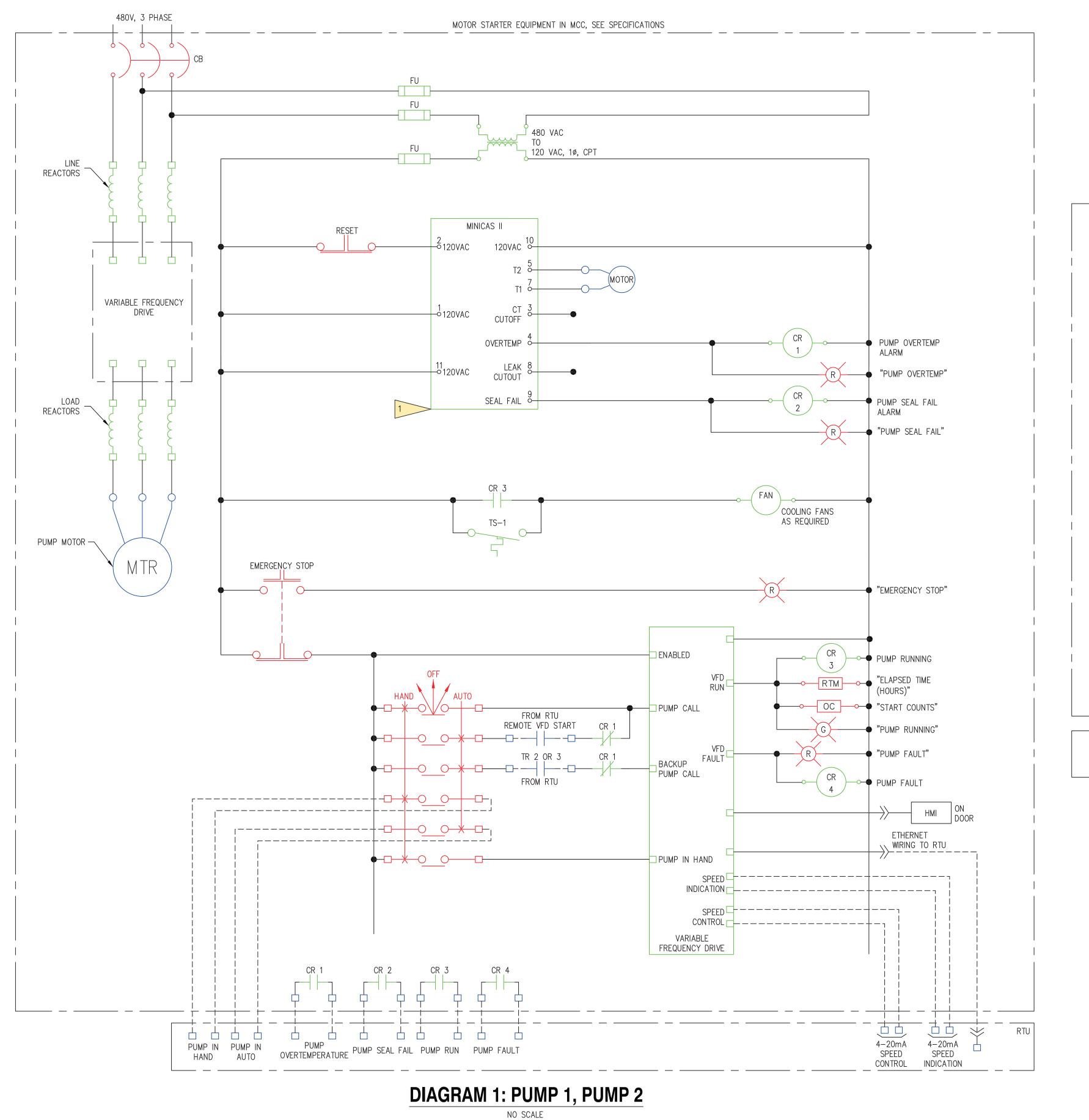




(PUMP 1, PUMP 2)

NOT TO SCALE





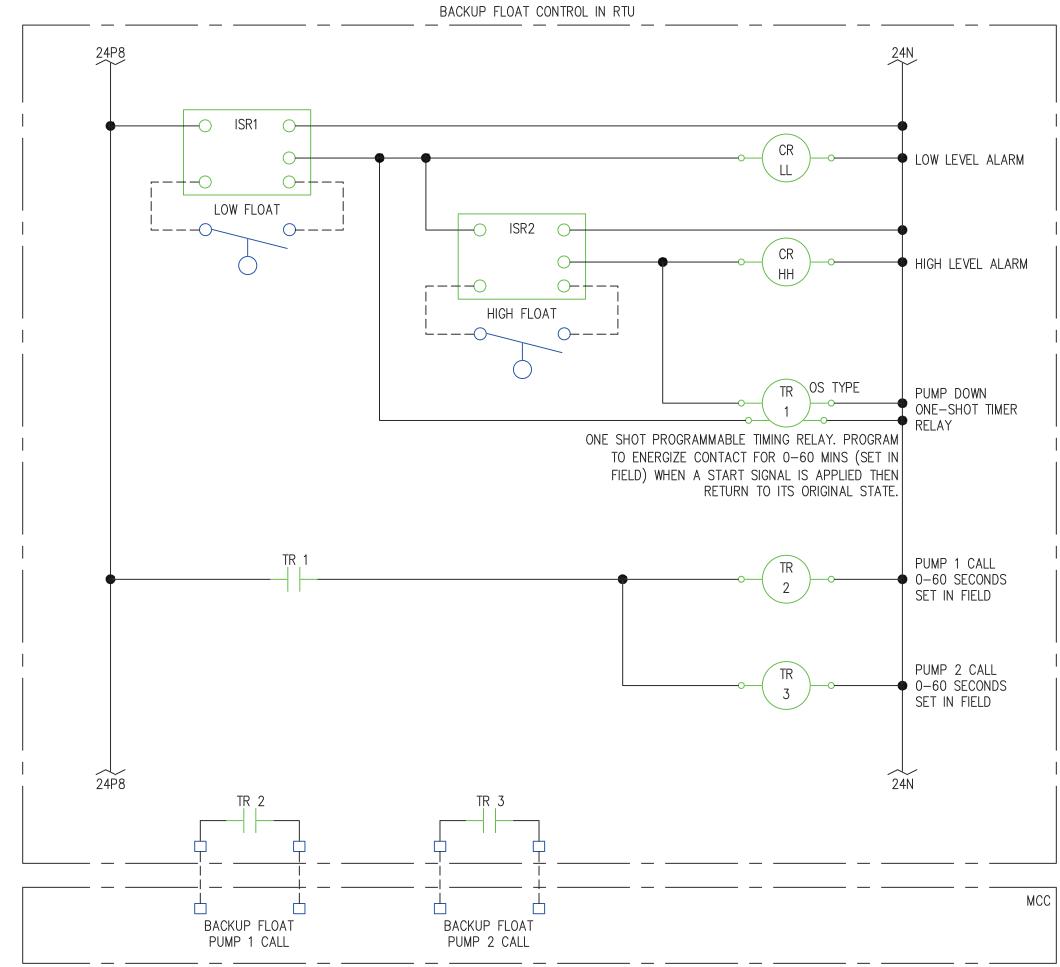


DIAGRAM 2: BACKUP FLOAT CONTROL LOGIC

NO SCALE

ELECTRICAL NOTES

1. THE TYPE OF PUMP PROTECTION RELAY MAY VARY DEPENDING ON THE SELECTED PUMP MANUFACTURER. CONTRACTOR SHALL PROVIDE AND INSTALL THE APPROPRIATE PUMP PROTECTION RELAY EQUIPMENT AS RECOMMENDED BY THE PUMP MANUFACTURER. CONTROL WIRING SHALL BE MODIFIED AS NECESSARY TO ACCOMMODATE THE PROVIDED PUMP PROTECTION RELAY AT NO COST TO THE OWNER.

REHABILITATION

ONTROL LOGIC DIAGRAMS

O

SCALE: SHOWN

O" 1" 2

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BAR MEASURES 2"

DWG NO.:
SHEET NO.:
20
31

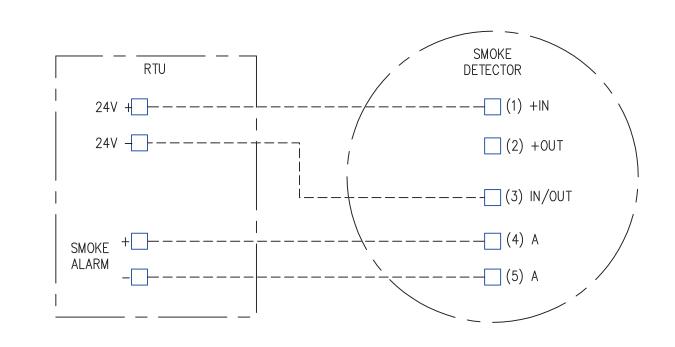


DIAGRAM 3: BUILDING SMOKE DETECTOR CIRCUIT

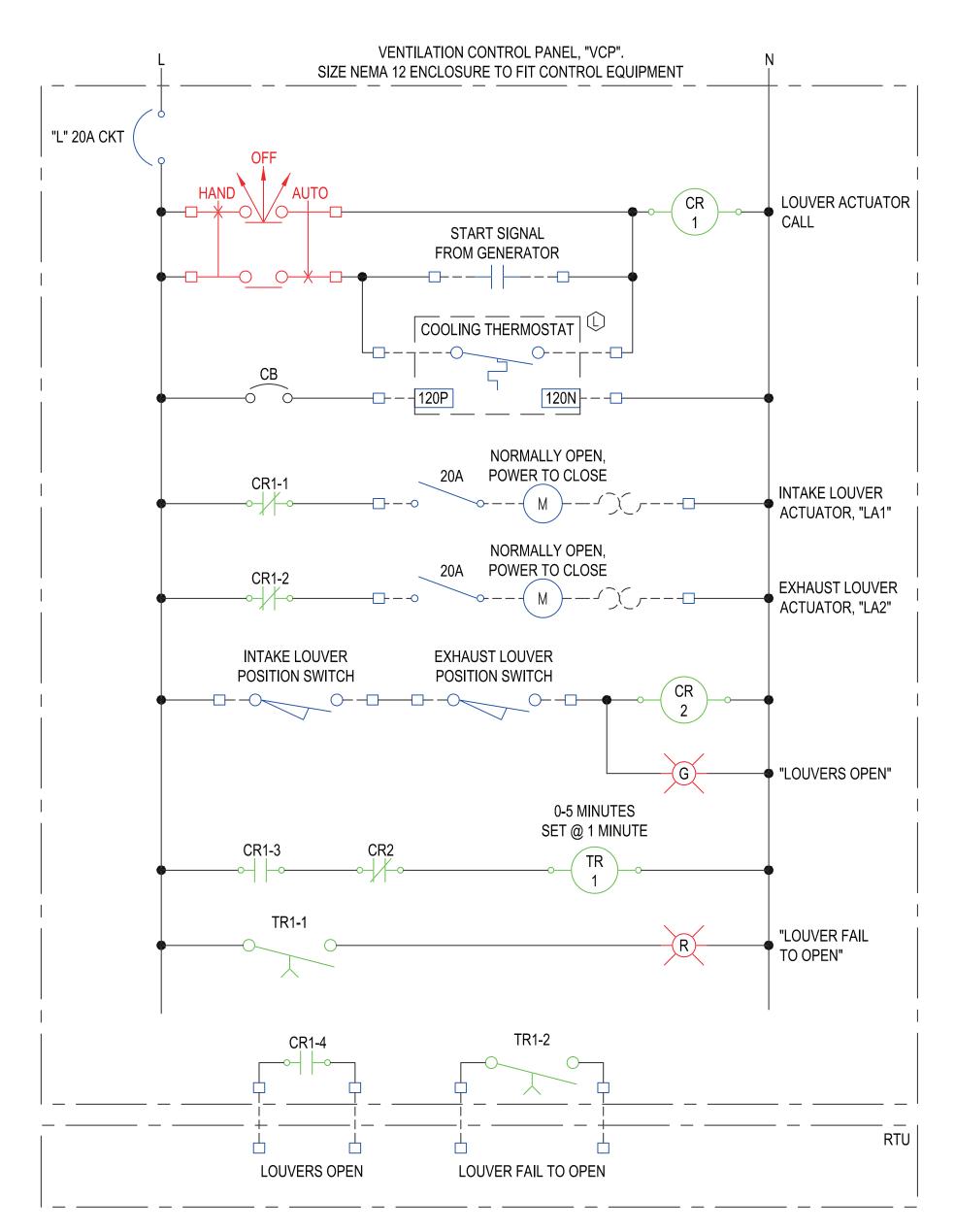
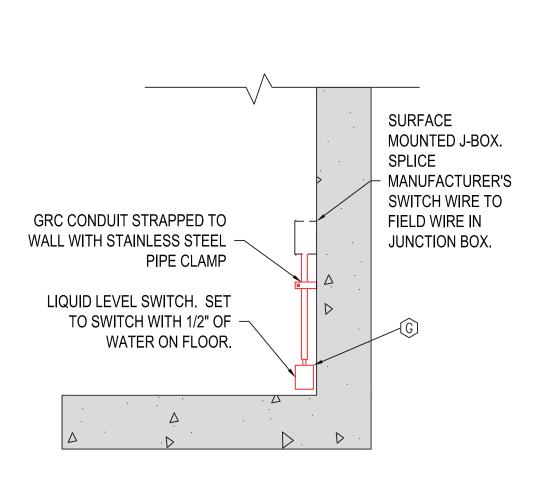
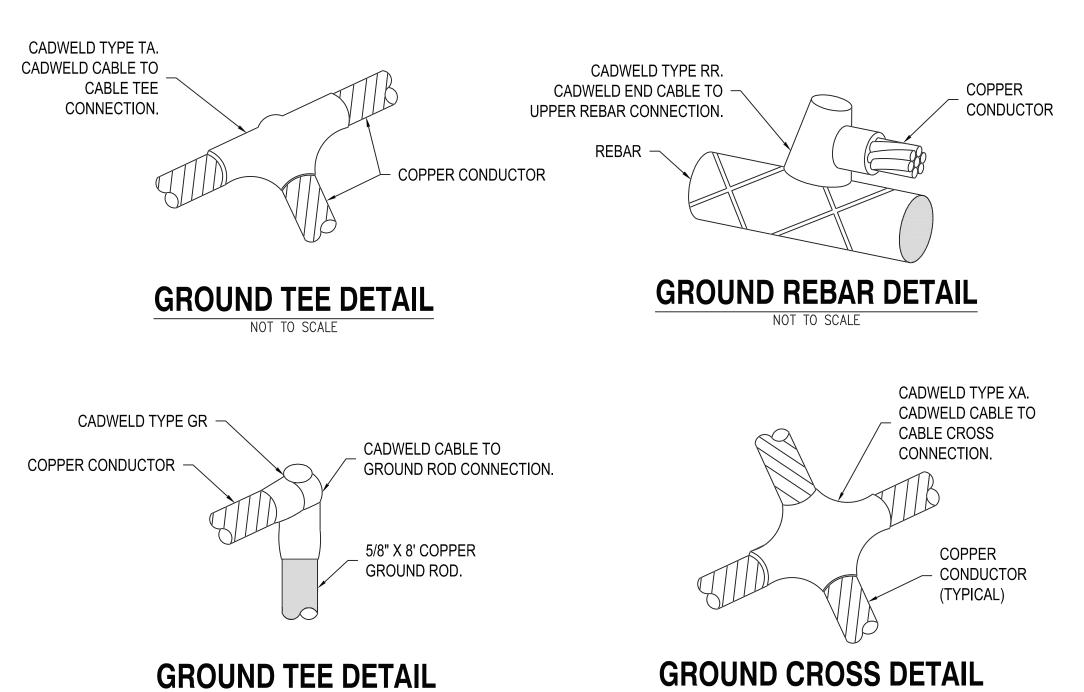


DIAGRAM 4: VENTILATION CONTROL PANEL, "VCP"

NO SCALE



FLOOD SWITCH DETAIL NOT TO SCALE



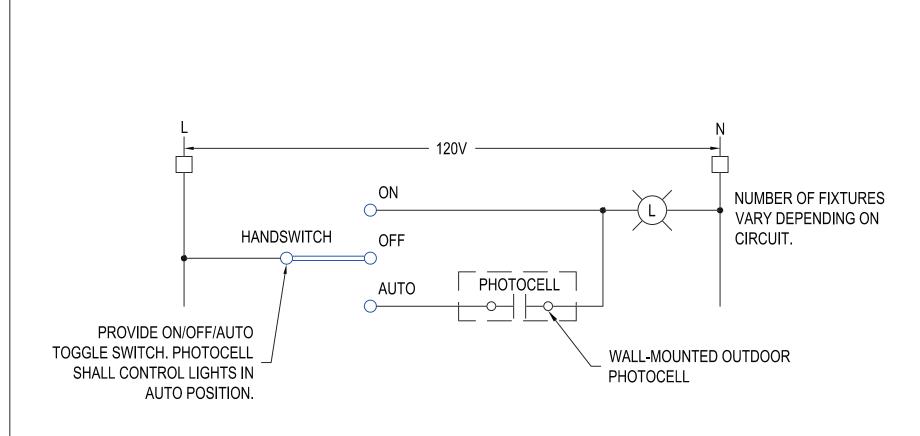
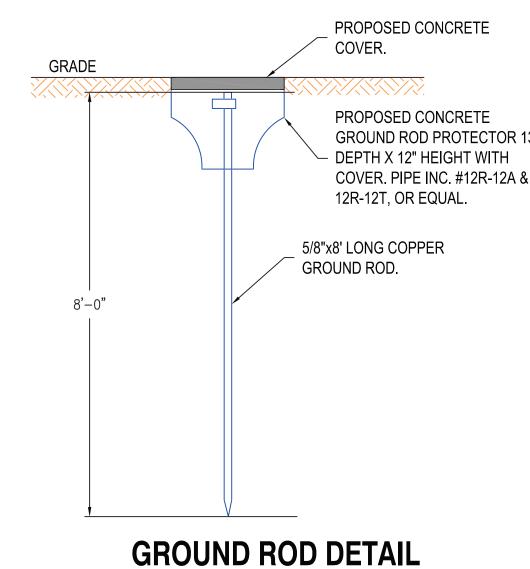
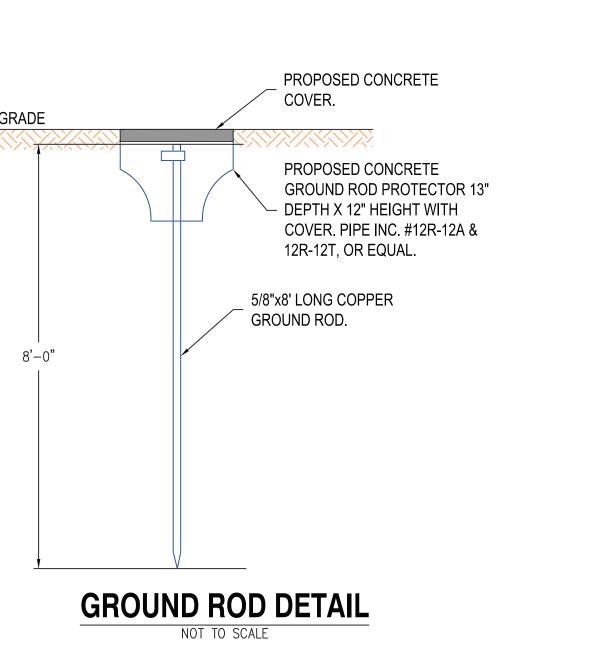
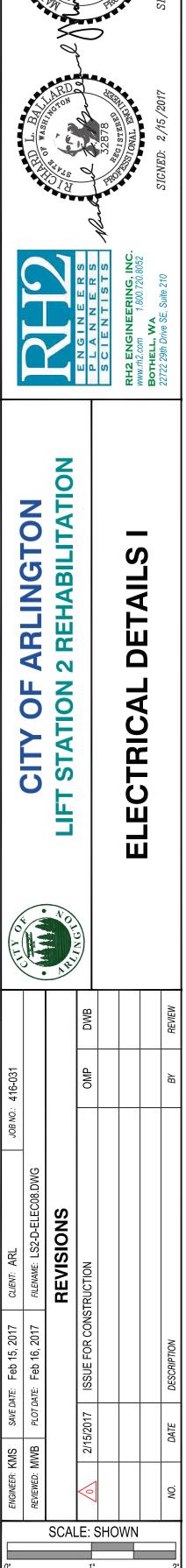


DIAGRAM 5: OUTDOOR BUILDING LIGHTING CIRCUIT

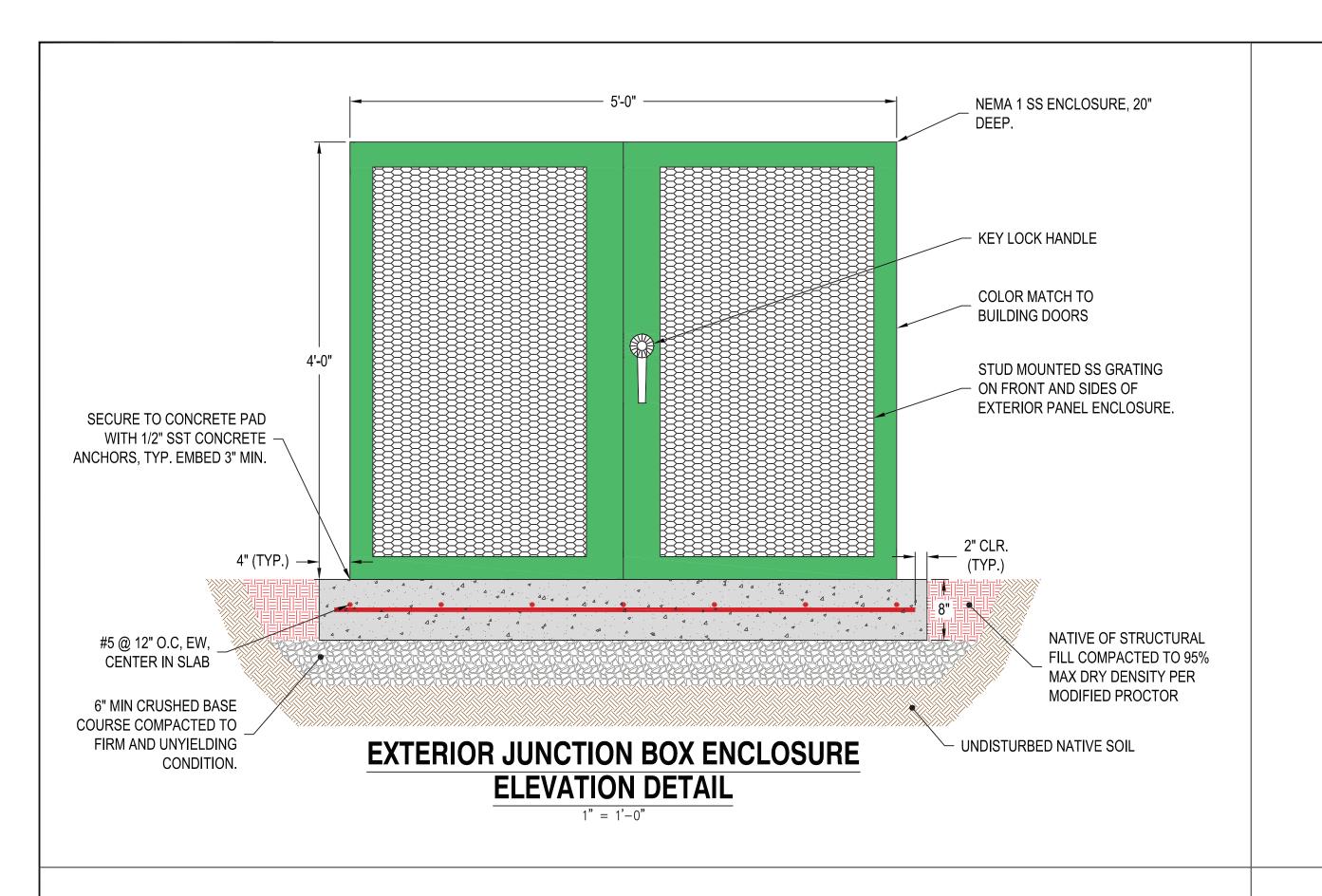


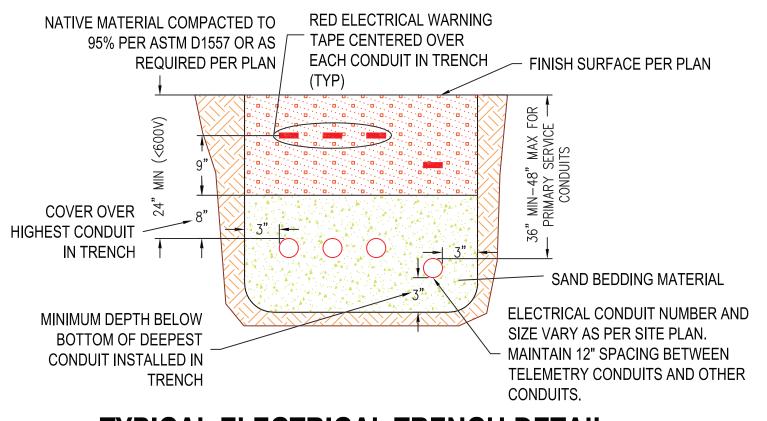




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SHEET NO.:



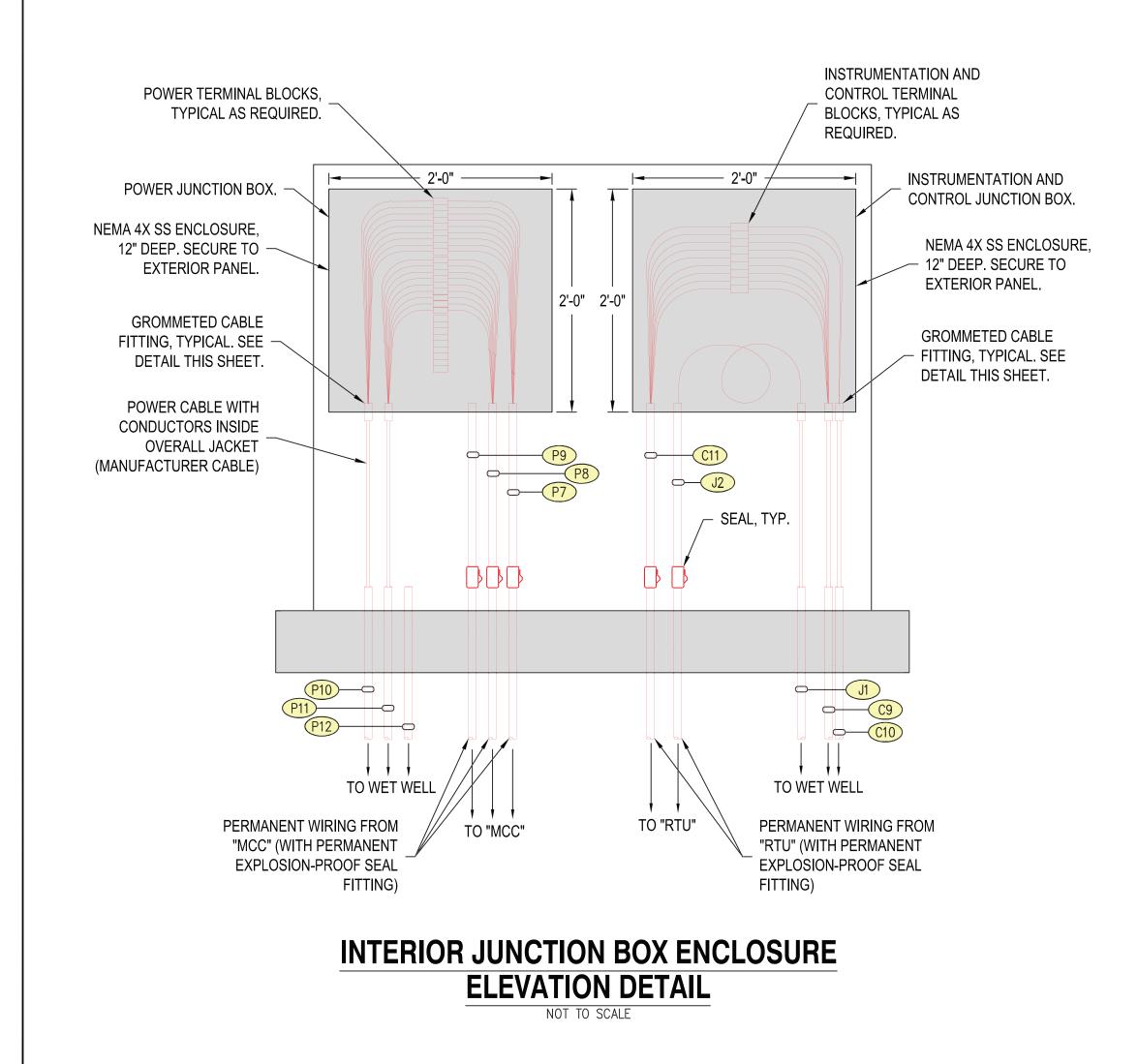


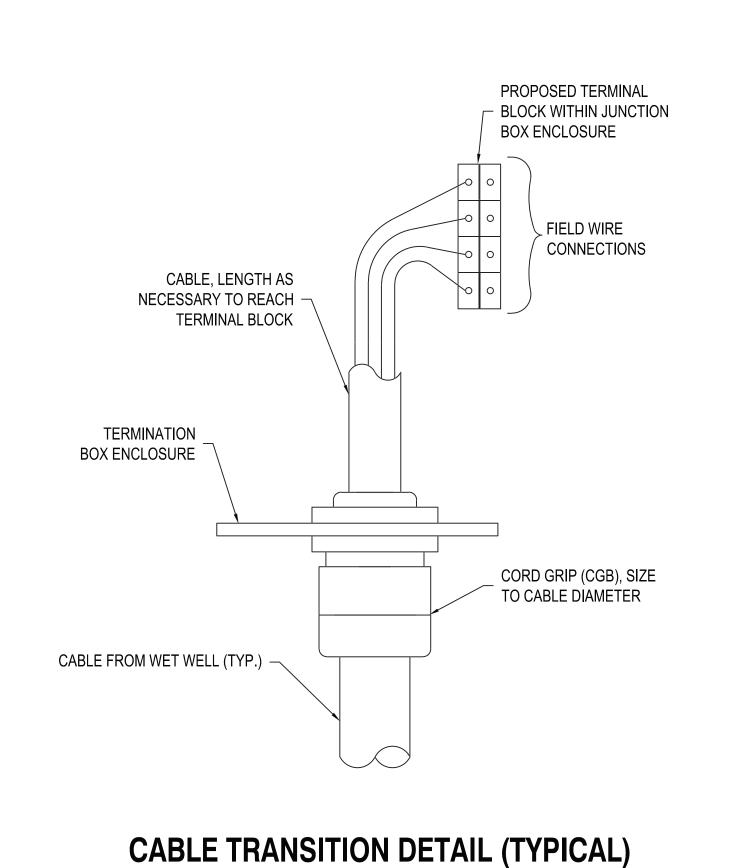
TYPICAL ELECTRICAL TRENCH DETAIL

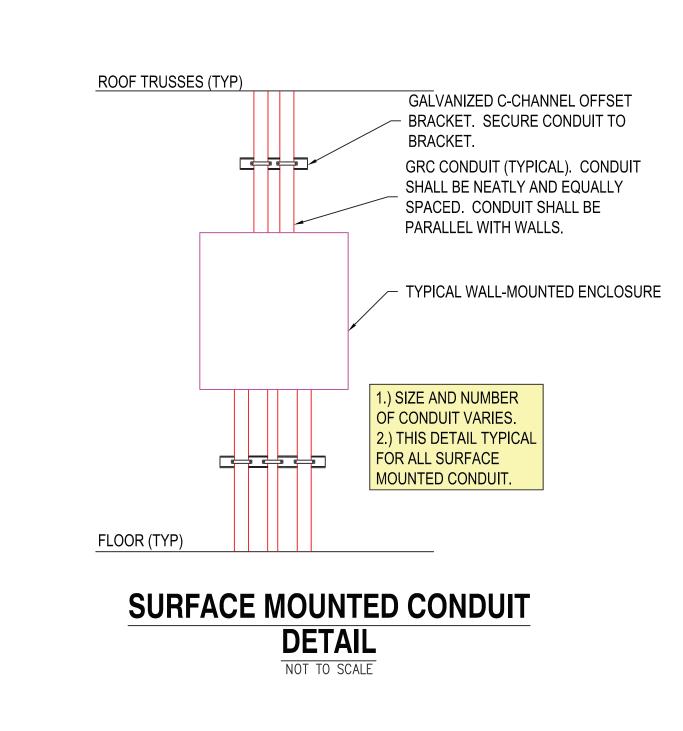
NOTE: BURY DEPTH OF CONDUIT AND HORIZONTAL SPACING SHALL BE CONFIRMED WITH SERVING UTILITY BEFORE CONSTRUCTION.

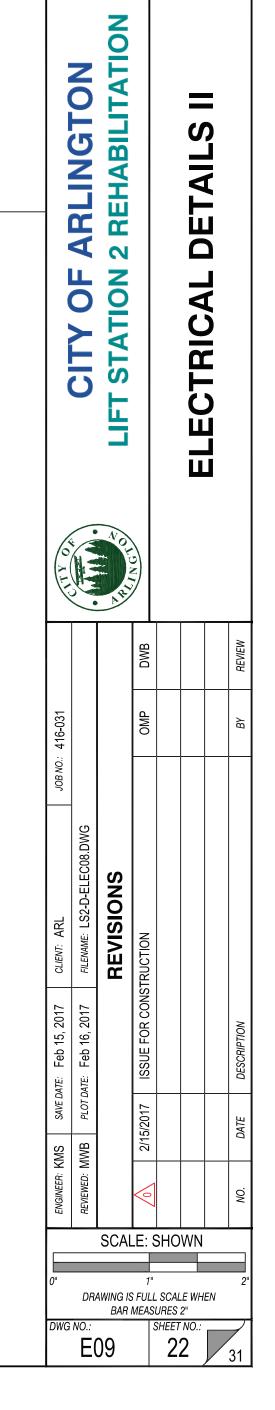


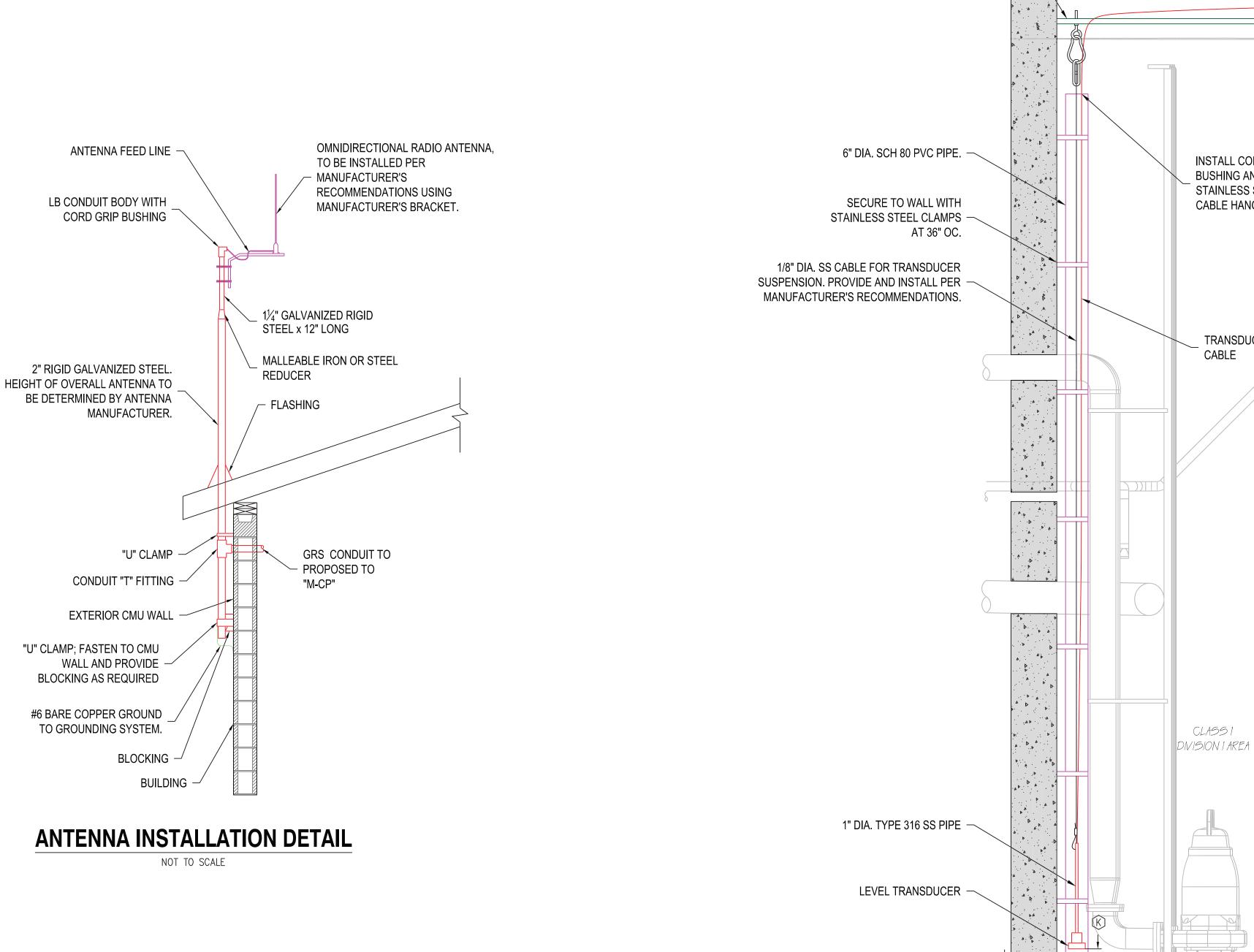


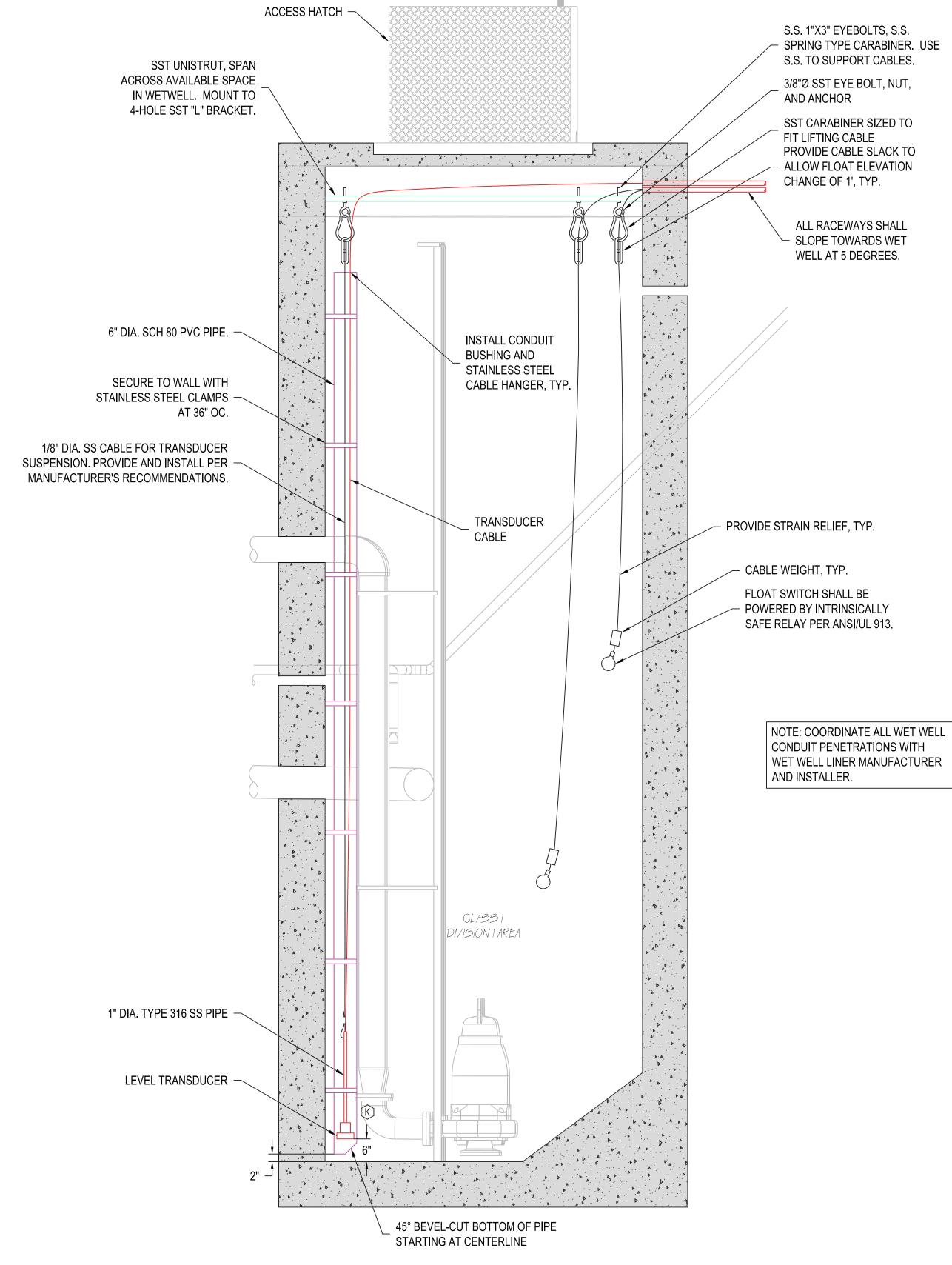






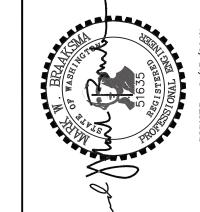








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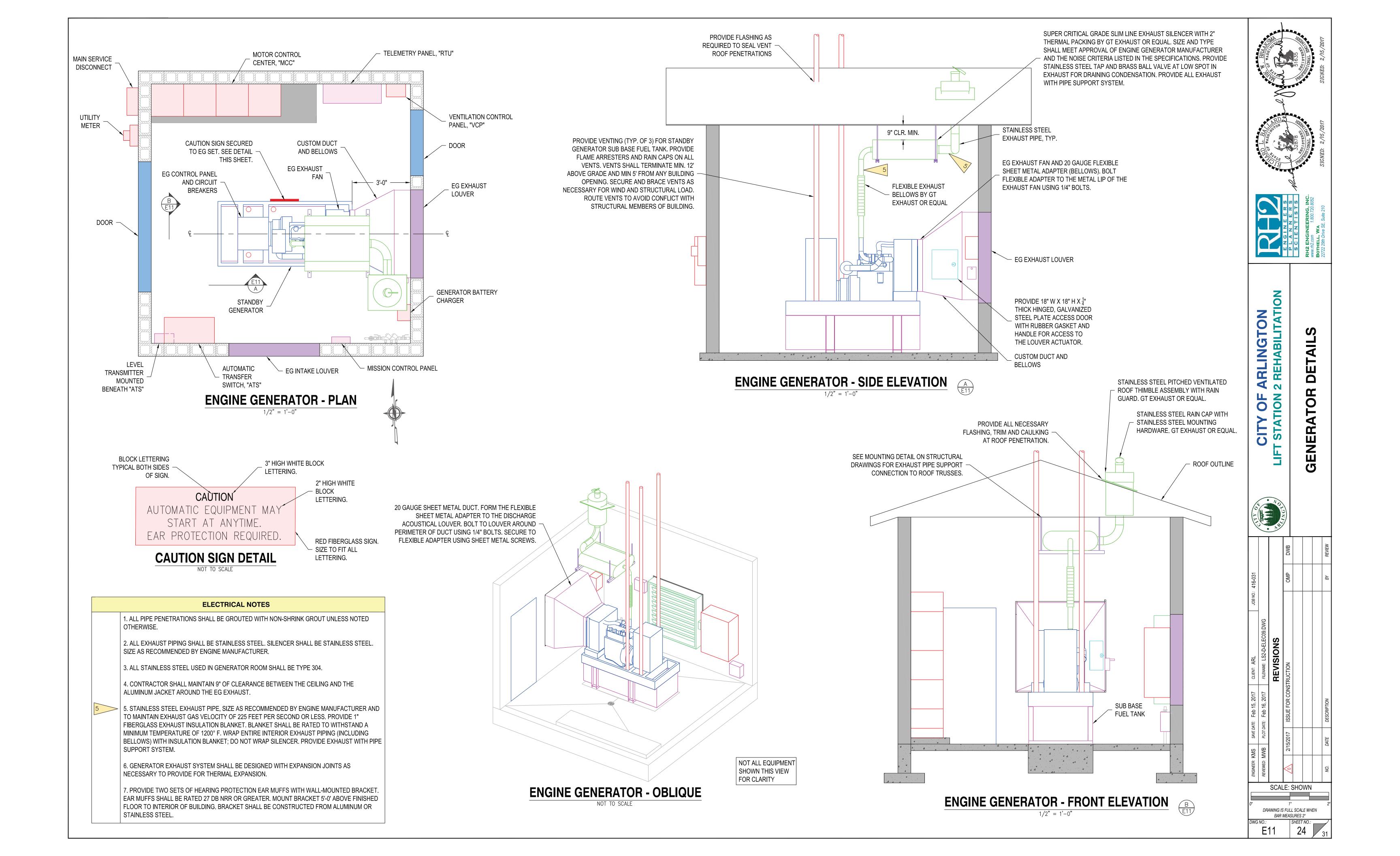






ARLINGTON REHABILITATION **DETAILS** ELECTRICAL CITY OI

REVISIONS



POWER CONDUIT AND CONDUCTOR SCHEDULE								
CIRCUIT SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES				
P1 EXISTING UTILITY POLE	POWER HAND HOLE	4"	(1) - NYLON PULL CORD	CONDUCTORS BY UTILITY				
POWER HAND HOLE	UTILITY METER	2"	(3) - #3/0, (1) - #3/0 N					
P3 UTILITY METER	MAIN SERVICE DISCONNECT	2"	(3) - #3/0, (1) - #3/0 N					
MAIN SERVICE DISCONNECT	AUTOMATIC TRANSFER SWITCH, "ATS"	2"	(3) - #3/0, (1) - #3/0 N, (1) - #6 GRD					
P5 STANDBY GENERATOR	AUTOMATIC TRANSFER SWITCH, "ATS"	2"	(3) - #3/0, (1) - #3/0 N, (1) - #6 GRD					
P6 AUTOMATIC TRANSFER SWITCH, "ATS"	MOTOR CONTROL CENTER, "MCC"	2"	(3) - #3/0, (1) - #3/0 N, (1) - #6 GRD					
P7 MOTOR CONTROL CENTER, "MCC"	POWER JUNCTION BOX	1 1/4"	(3) - #8, (5) - #14, (1) - #8 GRD					
P8 MOTOR CONTROL CENTER, "MCC"	POWER JUNCTION BOX	1 1/4"	(3) - #8, (5) - #14, (1) - #8 GRD					
P9 MOTOR CONTROL CENTER, "MCC"	POWER JUNCTION BOX	1 1/4"	(1) - NYLON PULL CORD	SPARE CONDUIT FOR FUTURE USE				
P10 POWER JUNCTION BOX	PUMP 1	1 1/2"	MANUFACTURER'S CABLE(S)					
P11 POWER JUNCTION BOX	PUMP 2	1 1/2"	MANUFACTURER'S CABLE(S)					
P12 POWER JUNCTION BOX	PUMP 3 (FUTURE)	1 1/2"	(1) - NYLON PULL CORD	SPARE CONDUIT FOR FUTURE USE				
P13 MOTOR CONTROL CENTER, "MCC"	BUILDING HEATER	3/4"	(3) - #12, (1) - #12 GRD					
P14 LIGHTING PANEL "L"	STANDBY GENERATOR	3/4"	(2) - #12, (1) - #12 GRD	GENERATOR BLOCK HEATER				
P15 LIGHTING PANEL "L"	TELEMETRY PANEL, "RTU"	3/4"	(2) - #12, (1) - #12 GRD					
P16 LIGHTING PANEL "L"	VENTILATION CONTROL PANEL, "VCP"	3/4"	(2) - #12, (1) - #12 GRD					
P17 VENTILATION CONTROL PANEL, "VCP"	INTAKE LOUVER ACTUATOR, "LA1"	3/4"	(2) - #12, (1) - #12 GRD					
P18 VENTILATION CONTROL PANEL, "VCP"	EXHAUST LOUVER ACTUATOR, "LA2"	3/4"	(2) - #12, (1) - #12 GRD					
P19 LIGHTING PANEL "L"	MISSION CONTROL PANEL, "M-CP"	3/4"	(2) - #12, (1) - #12 GRD					
P20 LIGHTING PANEL "L"	GENERATOR BATTERY CHARGER	3/4"	(2) - #12, (1) - #12 GRD					
P21 GENERATOR BATTERY CHARGER	GENERATOR BATTERIES	3/4"	(2) - #12, (1) - #12 GRD					

	ELECTRICAL EQUIPMENT SCHEDULE							
ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.					
A	MAIN SERVICE DISCONNECT SWITCH — NEMA 4X STAINLESS STEEL ENCLOSURE, HEAVY DUTY BREAKER, SERVICE ENTRANCE RATED, THERMAL MAGNETIC TRIP, 200 AMP, 480 VOLT, 3φ 42 KAIC WITHSTAND, CIRCUIT BREAKER SWITCH	SIEMENS	JD6-A OR EQUAL					
₿	AUTOMATIC TRANSFER SWITCH — NEMA 12 ENCLOSURE, 225 AMP, 480 VOLT, 3 PHASE, 3 POLE, 42 KAIC WITHSTAND.	SEE SPECIFICATIONS	SEE SPECIFICATIONS					
©	INTRUSION ALARM SWITCH — CONTRACTOR SHALL SELECT ACTUATOR LEVER ARM BEST SUITED FOR MOUNTING CONFIGURATION	SQUARE D	HEAVY DUTY TYPE C, CLASS 9007 OR EQUAL					
0	INTRUSION ALARM SWITCH — CONTRACTOR SHALL SELECT ACTUATOR LEVER ARM BEST SUITED FOR MOUNTING CONFIGURATION. SWITCH SHALL BE A HAZARDOUS LOCATION SEALED SWITCH RATED FOR CLASS 1 DIVISION 1 LOCATIONS.	ALLEN-BRADLEY	HAZARDOUS LOCATION 802XR SERIES OR EQUAL					
Ê	SMOKE DETECTOR — PHOTOELECTRIC, 24 VDC POWERED WITH LOCAL AND AUDIBLE ALARM SIGNAL AND CONTACTS FOR REMOTE ANNUNCIATION THROUGH FOUR WIRE CONNECTION TO RTU.	SYSTEMS SENSOR	4WTAR-B OR EQUAL					
Ē	HEATING THERMOSTAT — WALL MOUNTED, 24V, SPST, RANGE 40°-99° F, SET AT 60° F, MOUNT 4 FEET ABOVE FINISHED FLOOR	HONEYWELL	TH6110D1005/U OR EQUAL					
©	FLOOD SWITCH — N.O. REED TYPE FLOAT SWITCH, 20 VA. SEE DWG NO. EO8 FOR DETAILS.	OMEGA	LVN-20 OR EQUAL					
(H)	FLOW METER	SEE SPECIFICATIONS	SEE SPECIFICATIONS					
\bigcirc	FLOAT SWITCH	SEE SPECIFICATIONS	SEE SPECIFICATIONS					
(K)	SUBMERSIBLE LEVEL TRANSMITTER	SEE SPECIFICATIONS	SEE SPECIFICATIONS					
	WALL MOUNTED COOLING THERMOSTAT — SNAP ACTION, SPDT LINE VOLTAGE AIR SWITCH CONTROLLER. RANGE: —30° — 100°F, SET AT 75°F. MOUNT 4 FEET ABOVE FINISHED FLOOR.	HONEYWELL	T775A2009/U OR EQUAL					
(M)	LOUVER POSITION SWITCH. CONTRACTOR SHALL SELECT OR FABRICATE ACTUATOR LEVER ARM BEST SUITED FOR MOUNTING CONFIGURATION.	SQUARE D	HEAVY DUTY TYPE C, CLASS 9007 OR EQUAL					

	LIGHTING FIXTURE SCHEDULE							
TYPE	DESCRIPTION	MANUFACTURER NAME	MANUFACTURER CATALOG NO.	LAMP QTY. *	LAMP CATALOG NO.	REMARKS		
A1	LED, LIGHT FIXTURE, 120 VAC, 4'-4" LONG, 61 WATT, 60,000 HOUR LED, HIGH EFFICIENCY DRIVER, HIGH-IMPACT ACRYLIC LENS, MOLDED FIBERGLASS HOUSING, WALL MOUNTED, U.L. LISTED FOR WET LOCATIONS.	LITHONIA	FEM4 4L IMAFL	1	INTEGRATED LED			
A2	LED OUTDOOR AREA LIGHT — (1)—27W 10C LED. 700mA, 3000K COLOR TEMPERATURE, 120VAC, MOUNT BOTTOM OF FIXTURE 1'—0" ABOVE DOOR, U.L. LISTED FOR WET LOCATIONS.	LITHONIA	DSXW1 LED 10C 700 30K T3M 120 DDBXD	N/A	INTEGRATED LED			
A3	DUAL HEAD EMERGENCY LIGHT - (2)-1.8W LED LAMPS, DUAL-VOLTAGE INPUT 120VAC/270VAC, 3 3/4" H, 14 5/8"W, THERMOPLASTIC HOUSING, INTEGRATED RECHARGEABLE BATTERY, MOUNT BOTTOM OF FIXTURE 1'-0" ABOVE DOOR, U.L. LISTED FOR DAMP LOCATIONS.	LITHONIA	EU2 LED M12	2	1.8 WATT DC			
A4	LED OUTDOOR WALL LUMINAIRE. 180 LED, 700mA DRIVER, 3000K COLOR TEMPERATURE, 120VAC. MOUNT TOP OF FIXTURE 1'-0" BELOW EAVE. U.L. LISTED FOR DAMP LOCATIONS.	HUBBELL	PGM3-180L-3K-U-BL	N/A	INTEGRATED LED			

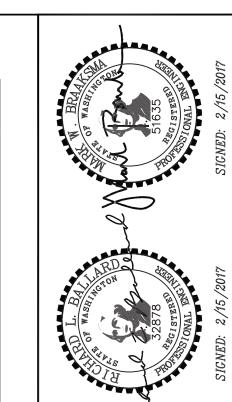
* NUMBER OF LAMPS PER FIXTURE

	CONTROL CONDUIT AND CONDUCTOR SCHEDULE							
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES			
<u>C1</u>	SMOKE DETECTOR	TELEMETRY PANEL, "RTU"	3/4"	(4) - #14, (1) - #14 GRD				
C2	AUTOMATIC TRANSFER SWITCH, "ATS"	TELEMETRY PANEL, "RTU"	3/4"	(8) - #14, (1) - #14 GRD				
<u>C3</u>	TELEMETRY PANEL, "RTU"	STANDBY GENERATOR	3/4"	(10) - #14, (1) - #14 GRD				
<u>C4</u>	AUTOMATIC TRANSFER SWITCH, "ATS"	STANDBY GENERATOR	3/4"	(3) - #14, (1) - #14 GRD				
C 5	TELEMETRY PANEL, "RTU"	MOTOR CONTROL CENTER, "MCC"	1"	(34) - #14, (1) - #14 GRD				
<u>C6</u>	HEATING THERMOSTAT	BUILDING HEATER	3/4"	(2) - #14, (1) - #14 GRD				
C7	DOUBLE DOOR INTRUSION SWITCH	TELEMETRY PANEL, "RTU"	3/4"	(2) - #14, (1) - #14 GRD				
<u>C8</u>	MAN DOOR INTRUSION SWITCH	TELEMETRY PANEL, "RTU"	3/4"	(2) - #14, (1) - #14 GRD				
<u>C9</u>	WET WELL INTRUSION SWITCH	INSTRUMENTATION AND CONTROL JUNCTION BOX	3/4"	SO CABLE				
C10	WET WELL FLOAT SWITCH	INSTRUMENTATION AND CONTROL JUNCTION BOX	1 1/4"	FLOAT CABLES				
C11	INSTRUMENTATION AND CONTROL JUNCTION BOX	TELEMETRY PANEL, "RTU"	3/4"	(6) - #14, (1) - #14 GRD				
C12	VALVE VAULT INTRUSION SWITCH	VALVE VAULT JUNCTION BOX	3/4"	(2) - #14, (1) - #14 GRD				
C13	FLOOD SWITCH (VALVE VAULT)	VALVE VAULT JUNCTION BOX	3/4"	(2) - #14, (1) - #14 GRD				
C14	VALVE VAULT JUNCTION BOX	TELEMETRY PANEL, "RTU"	3/4"	(4) - #14, (1) - #14 GRD				
C15	METER VAULT INTRUSION SWITCH	METER VAULT JUNCTION BOX	3/4"	(2) - #14, (1) - #14 GRD				
C16	FLOOD SWITCH (METER VAULT)	METER VAULT JUNCTION BOX	3/4"	(2) - #14, (1) - #14 GRD				
C17	METER VAULT JUNCTION BOX	TELEMETRY PANEL, "RTU"	3/4"	(4) - #14, (1) - #14 GRD				
C18	STANDBY GENERATOR	VENTILATION CONTROL PANEL, "VCP"	3/4"	(2) - #14, (1) - #14 GRD				
C19	VENTILATION CONTROL PANEL, "VCP"	COOLING THERMOSTAT	3/4"	(4) - #14, (1) - #14 GRD				
C20	VENTILATION CONTROL PANEL, "VCP"	INTAKE LOUVER POSITION SWITCH	3/4"	(2) - #14, (1) - #14 GRD				
C21	VENTILATION CONTROL PANEL, "VCP"	EXHAUST LOUVER POSITION SWITCH	3/4"	(2) - #14, (1) - #14 GRD				
C22	TELEMETRY PANEL, "RTU"	VENTILATION CONTROL PANEL, "VCP"	3/4"	(4) - #14, (1) - #14 GRD				

	INSTRUMENTATION CONDUIT AND CONDUCTOR SCHEDULE							
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES			
J1	LEVEL TRANSDUCER	INSTRUMENTATION AND CONTROL JUNCTION BOX	1"	MANUFACTURER'S CABLE(S)	LEVEL TRANSDUCER CABLE			
J2	INSTRUMENTATION AND CONTROL JUNCTION BOX	LEVEL TRANSMITTER	1"	MANUFACTURER'S CABLE(S)	LEVEL TRANSDUCER CABLE			
J3	FLOW METER	TELEMETRY PANEL, "RTU"	(2) 1 1/2"	MANUFACTURER'S CABLE(S)				
J4	TELEMETRY PANEL, "RTU"	MOTOR CONTROL CENTER, "MCC"	1 1/2"	(4) 2-CONDUCTOR SHIELDED CABLES				
J5	TELEMETRY PANEL, "RTU"	MOTOR CONTROL CENTER, "MCC"	1 1/2"	(3) CAT 5E SHIELDED ETHERNET CABLES				
J6	LEVEL TRANSMITTER	TELEMETRY PANEL, "RTU"	3/4"	(1) 2-CONDUCTOR SHIELDED CABLE				
J7	TELEMETRY PANEL, "RTU"	MISSION CONTROL PANEL, "M-CP"	1 1/2"	(32) - #14, (1) - #14 GRD (2) 2-CONDUCTOR SHIELDED CABLES				
J8	MISSION CONTROL PANEL, "M-CP"	RADIO ANTENNA	1 1/2"	COAXIAL ANTENNA CABLE	USE LARGE RADIUS BENDS			

HEATER SCHEDULE						
ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.			
Ĥ	ELECTRICAL HEATER WITH UNIVERSAL MOUNTING BRACKET — 3KW, 480V, THREE PHASE, WITH 24V CONTROL TRANSFORMER AND POWER CONTACTOR FOR THERMOSTAT CONNECTION. MOUNT BOTTOM OF HEATER 7'-0" ABOVE FLOOR.	QMARK	MUH0341			

PANEL SCHEDULE L							
NO. LOCATION: MCC L SERVING: GENERATOR BUILDING L	OADS.				208 200	3/120) AM	VOLTS 3¢ 4 WIRE IP MAIN
CIRCUIT DESCRIPTION	KVA	AMP] 	I	AMP	KVA	CIRCUIT DESCRIPTION
TELEMETRY PANEL, "RTU"	0.50	20	1 + +	2	20	0.72	INTERIOR RECEPTACLES
MISSION CONTROL PANEL, "M-CP"	0.05	20	3 -	4	20	0.36	EXTERIOR RECEPTACLES
INTERIOR LIGHTING	0.13	20	5	6	20	0.20	GENERATOR BATTERY CHARGER
EXTERIOR LIGHTING	0.03	20	7	-~-8	20	1.00	GENERATOR BLOCK HEATER
EMERGENCY LIGHTING	0.01	20	9 -	- ~-10	20	1.92	VENTILATION CONTROL PANEL, "VCP"
WET WELL AREA LIGHT	0.10	20	11 + - + - + - + - + - + - + - + - +	- 12	20	_	SPARE
SPARE	_	20	13 -		20	_	SPARE
SPARE	_	20	15 -		_	_	SPACE
SPACE		_	17 + - + - + - + - + - + - + - + - +	~ 18	_	_	SPACE
CONNECTION LOAD:	DEMA	ND: L	GHTING & I	RECEPTA	CLE L	DAD	DEMAND LOAD:
5.0 KVA 13.9 AMPS							5.0 KVA 13.9 AMPS





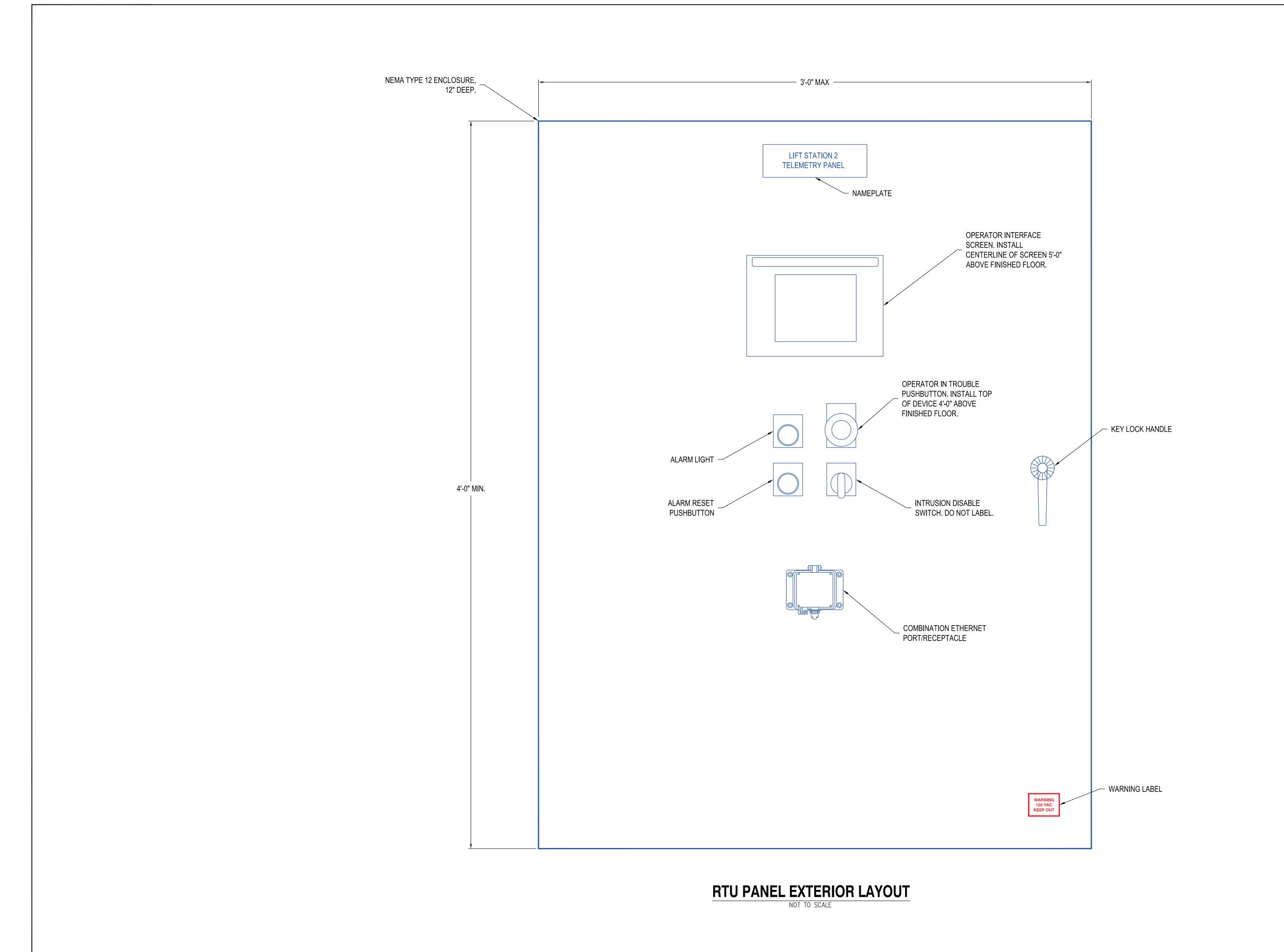
ELECTRICAL SCHEDULES

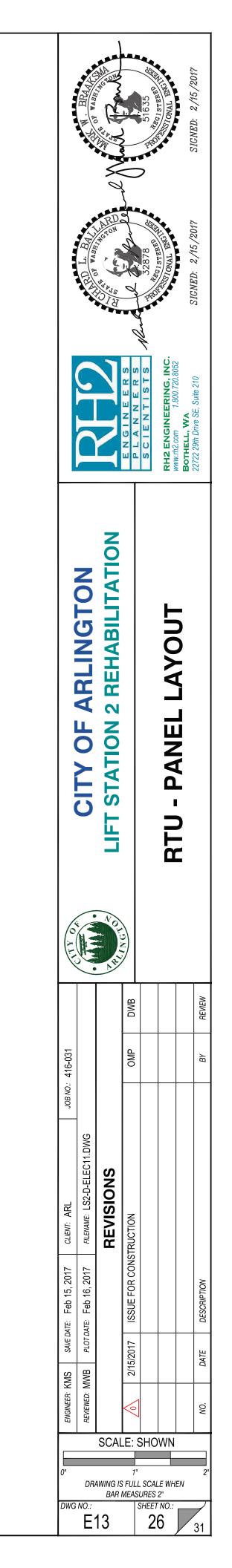


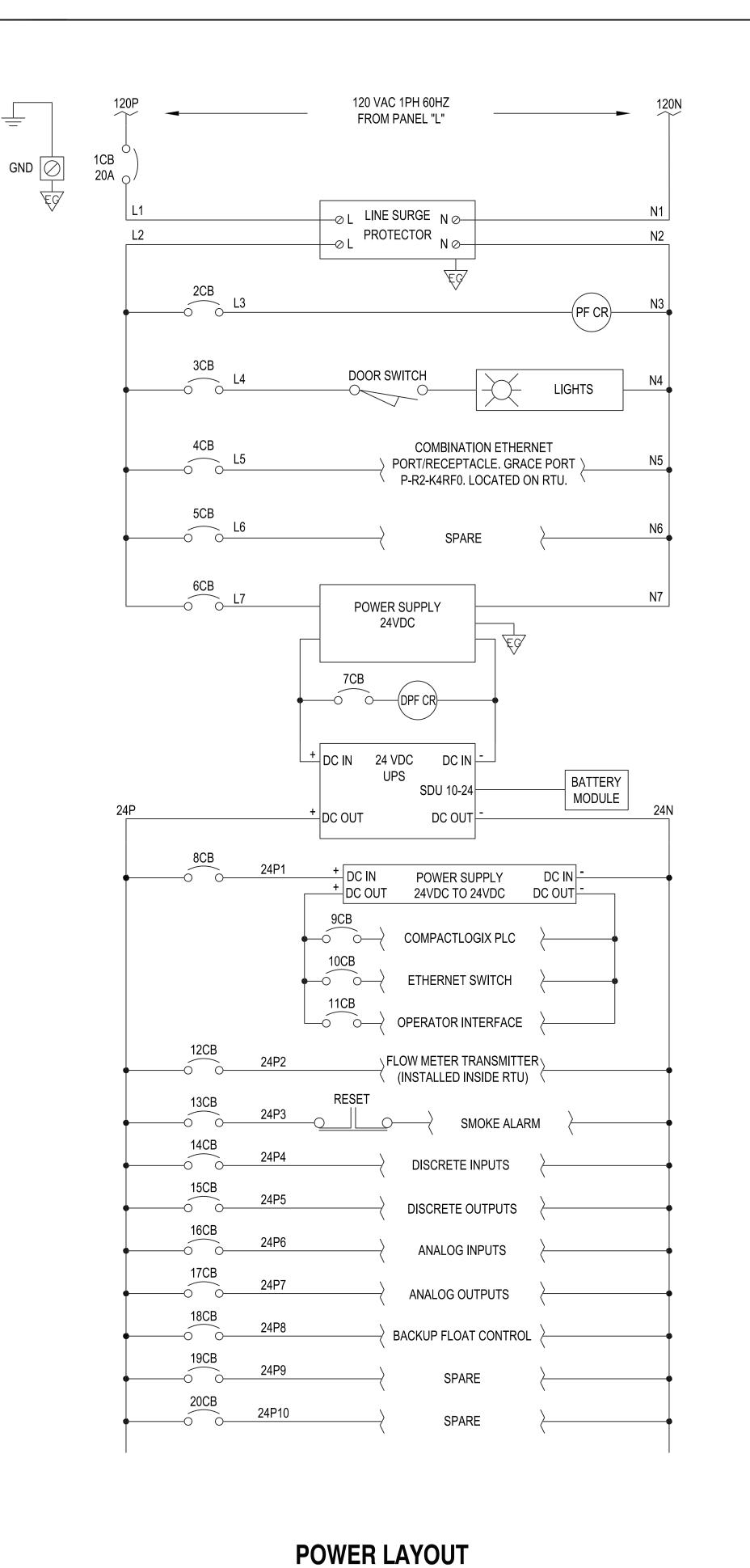
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DRAWING IS FULL SCALE WHEN
BAR MEASURES 2"

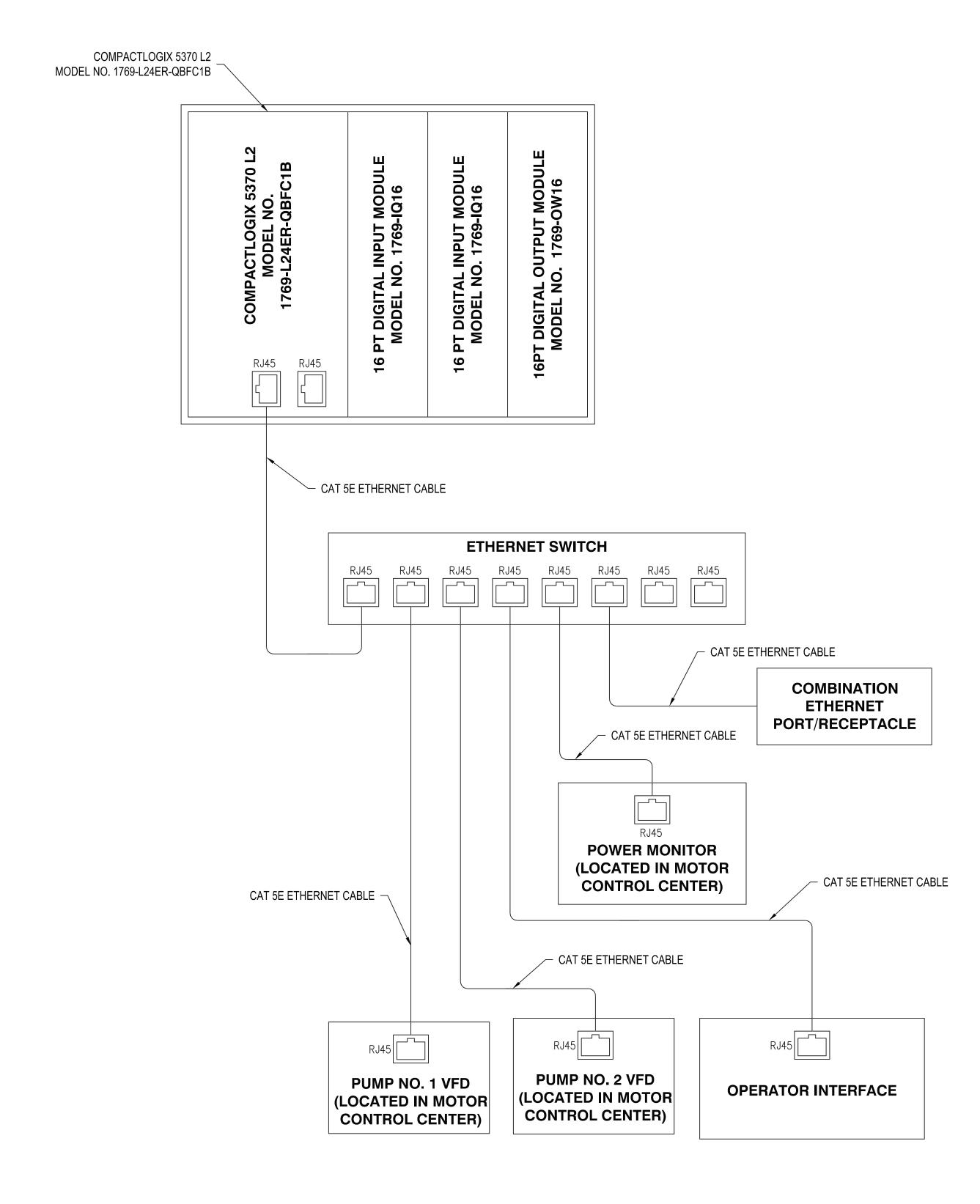
DWG NO.:
SHEET NO.:
25
31







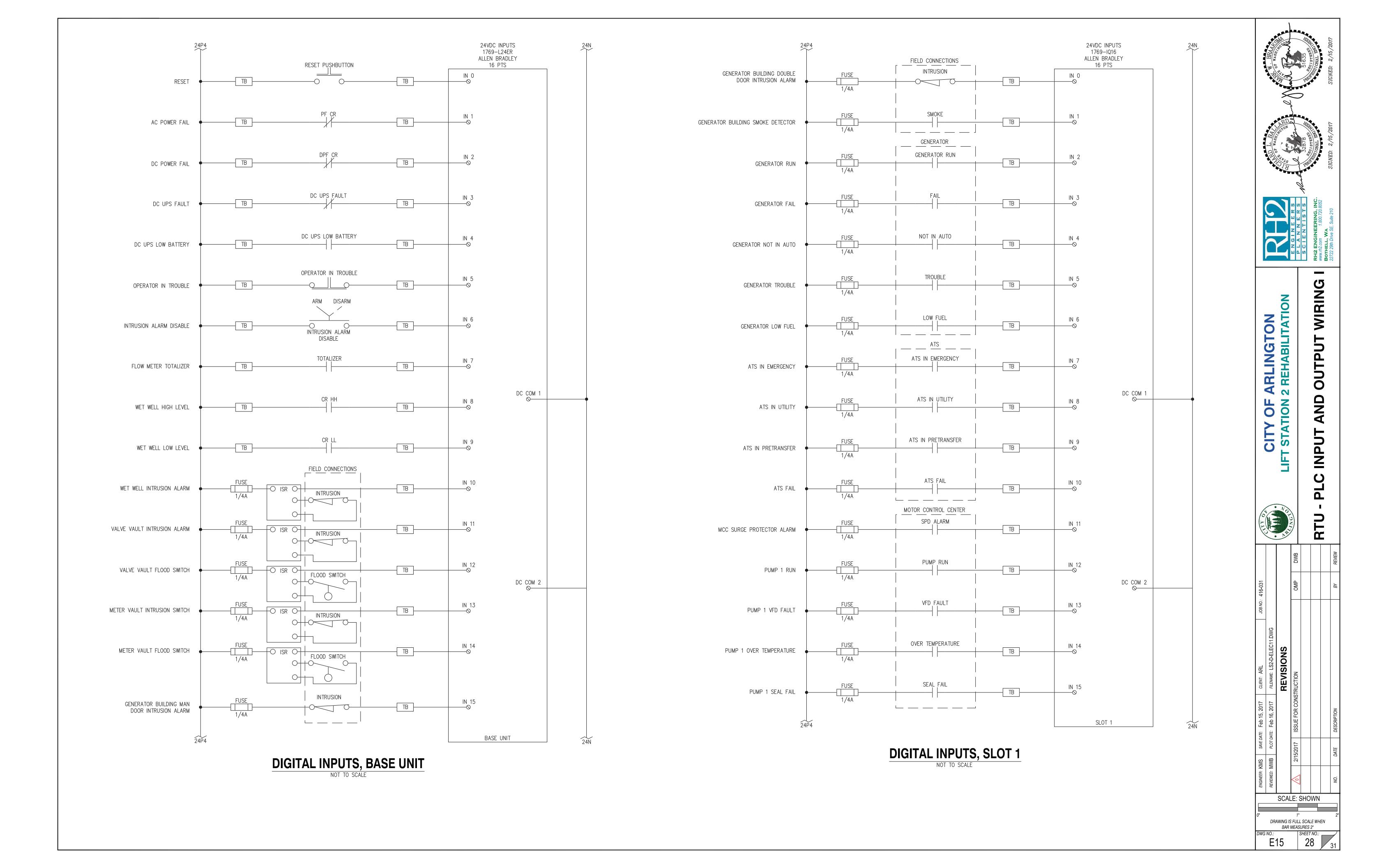
NOT TO SCALE

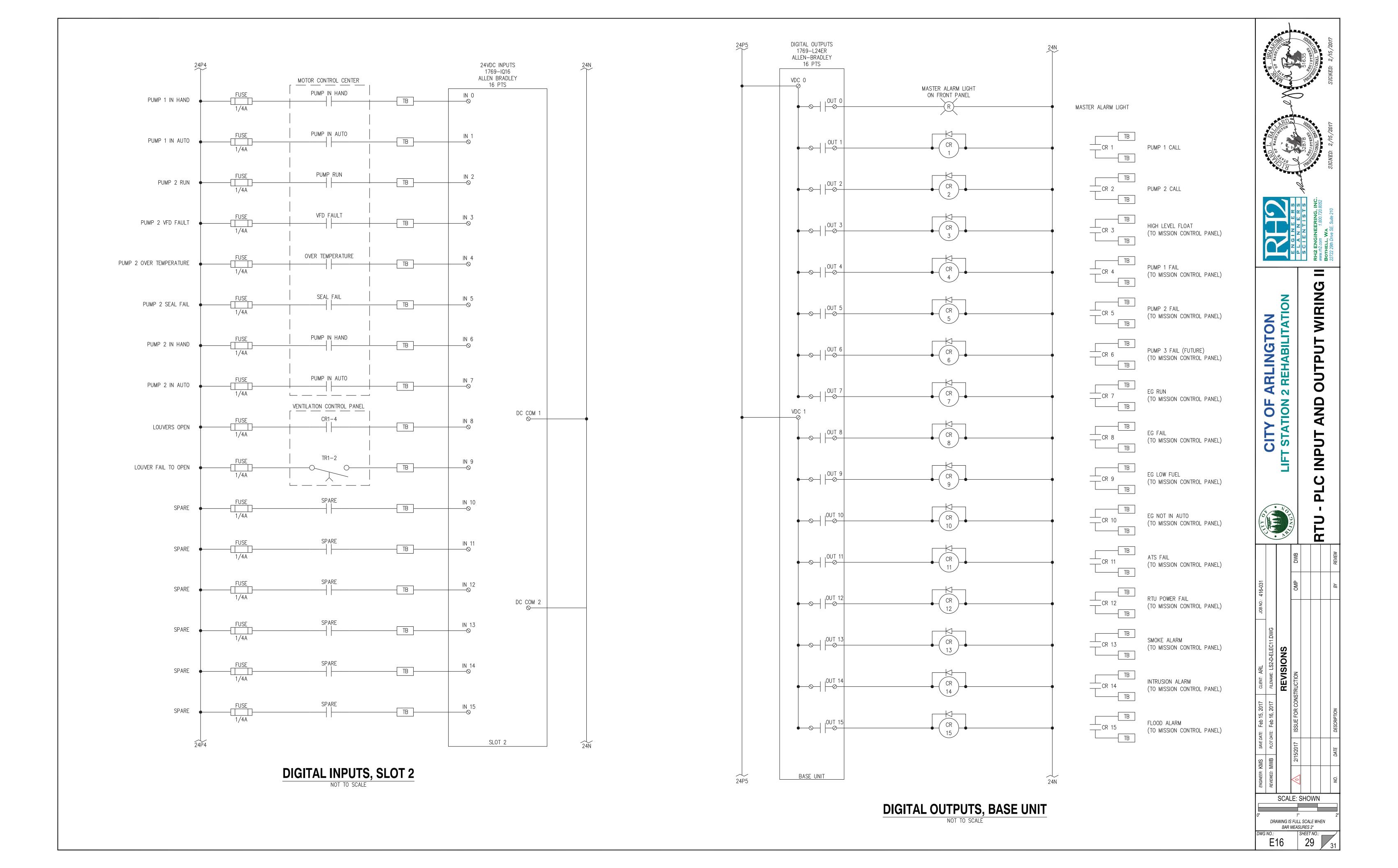


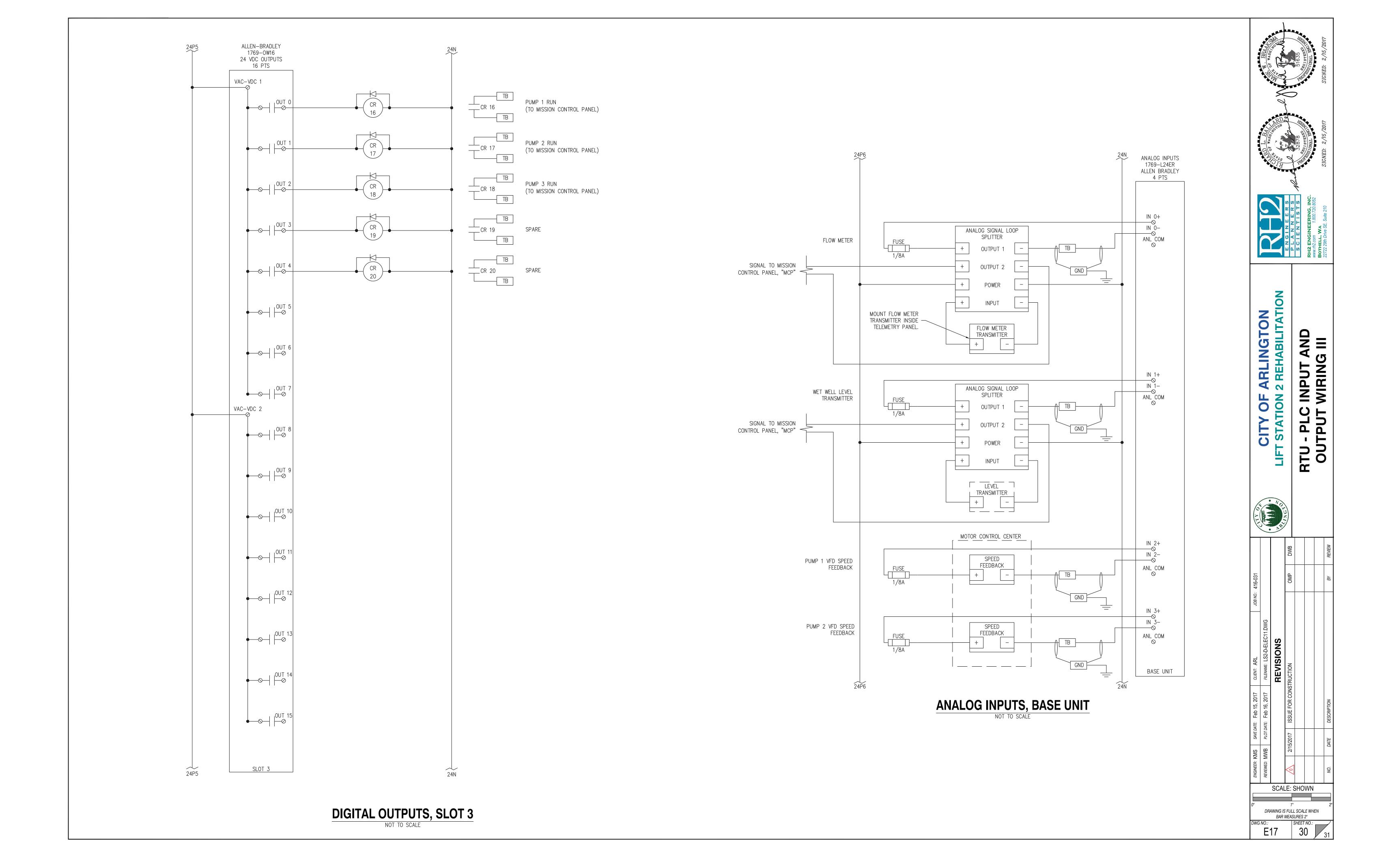
COMMUNICATIONS LAYOUT

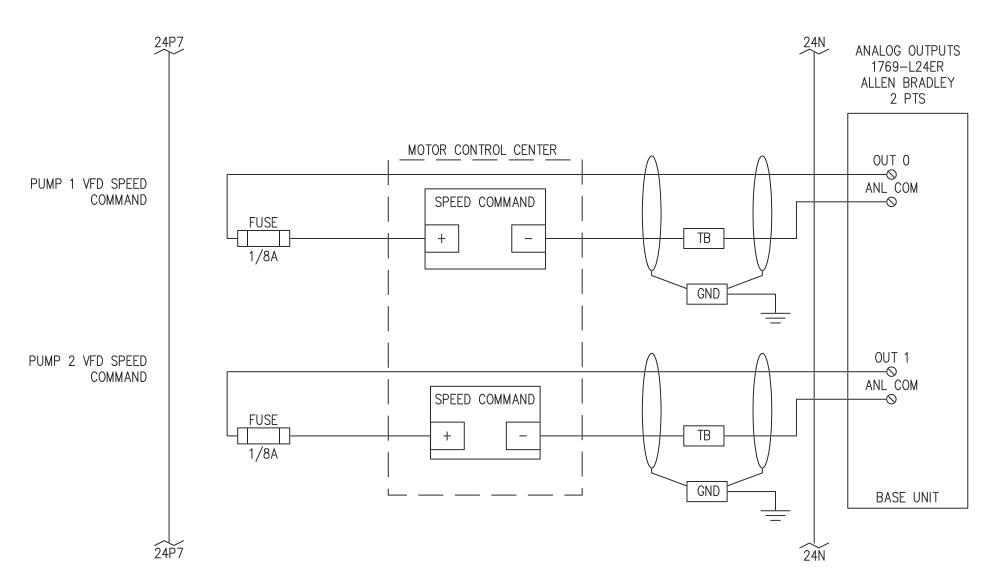
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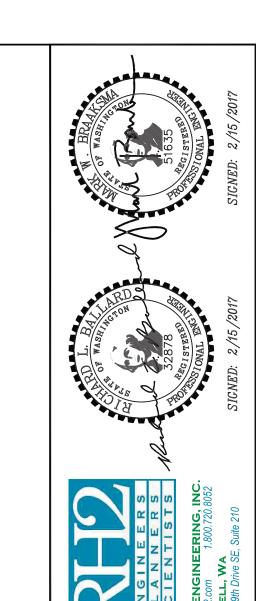








ANALOG OUTPUTS, BASE UNIT



CITY OF ARLINGTON
LIFT STATION 2 REHABILITATION
- PLC INPUT AND OUTPUT WIRING
IV

A VOLUMENT OF THE PROPERTY OF

 INMER: KMS
 SAVE DATE: Feb 15, 2017
 CLIENT: ARL
 JOB NO.: 416-031

 INMED: MVB
 PLOT DATE: Feb 16, 2017
 FILENAME: LS2-D-ELEC11.DWG

 AREVISIONS
 PLOT DATE: Feb 16, 2017
 FILENAME: LS2-D-ELEC11.DWG

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SCALE: SHOWN

DRAWING IS FULL SCALE WHEN
BAR MEASURES 2"

DWG NO.:
SHEET NO.:
31

LEGEND



GENERAL NOTES

- ALL WORKMANSHIP, CONSTRUCTION AND MATERIALS SHALL BE PERFORMED OR SUPPLIED IN ACCORDANCE WITH THESE SPECIAL PROVISIONS, PLANS, CITY OF ARLINGTON (CITY) STANDARD DETAILS, AND THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, 2014 EDITION, AS ISSUED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION, WHICH IS HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL CONTACT THE CITY'S PUBLIC WORKS DEPARTMENT (360.403.3500) TO SCHEDULE A PRE-CONSTRUCTION CONFERENCE AFTER PLANS ARE APPROVED AND BEFORE STAKING AND CONSTRUCTION START. THE CONFERENCE SHALL INCLUDE THE CONTRACTOR, REPRESENTATIVES FROM THE PERMIT AGENCIES, OTHER UTILITY COMPANIES, AND CITY STAFF. ARRANGE A MEETING A MINIMUM OF 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
- STAKING SHALL BE PERFORMED BY OR UNDER THE DIRECT SUPERVISION OF THE CONTRACTOR'S LAND SURVEYOR LICENSED IN THE STATE OF WASHINGTON. PROVIDE THE CITY WITH TWO (2) BUSINESS DAYS NOTICE TO INSPECT CONSTRUCTION STAKING BEFORE CONSTRUCTION BEGINS.
- THE EXISTING TOPOGRAPHIC AND PHYSICAL FEATURES SHOWN ON THESE PLANS ARE BASED ON A FIELD SURVEY BY METRON AND ASSOCIATES, (SEE SURVEY NOTES), RECORD DRAWINGS, AND FIELD RECONNAISSANCE BY RH2 ENGINEERING.
- THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK TO AVOID DAMAGE OR DISTURBANCE, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES. IT IS UNDERSTOOD THAT OTHER ABOVE GROUND AND UNDERGROUND FACILITIES NOT SHOWN ON THE PLANS MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK.
- THE CONTRACTOR SHALL PROTECT. IN PLACE BUILDINGS, FENCES, APPURTENANCES, ABOVE GROUND UTILITIES, AND OTHER PROPERTY ADJACENT TO ALL CONSTRUCTION AREAS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR REPAIRING ALL DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES.
- IN ACCORDANCE WITH THE DEPARTMENT OF ECOLOGY AIR QUALITY STANDARDS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING ALL FUGITIVE DUST THAT MAY BE GENERATED BY THE CONSTRUCTION PROJECT.
- THE CONTRACTOR SHALL CONTAIN WORK TO WITHIN RIGHT-OF-WAY AND THE CONSTRUCTION LIMITS AS ILLUSTRATED IN THE PLANS.
- SEE TECHNICAL SPECIFICATIONS FOR FURTHER INFORMATION REGARDING PERMITS.
- 10. ONSITE EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND BE IN PLACE PRIOR TO CONSTRUCTION. ANY PROBLEMS OCCURRING BEFORE FINAL ACCEPTANCE BY THE CITY SHALL BE CORRECTED BY THE CONTRACTOR. UPON FINAL ACCEPTANCE BY THE CITY, OR AS OTHERWISE DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY, NON-DEGRADABLE EROSION CONTROL MEASURES.
- ANY REVISIONS TO PLANS MUST BE MADE BY THE ENGINEER AND APPROVED BY THE CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD.
- ALL PAVEMENT MARKINGS, SIGNING AND TRAFFIC CONTROL AS REQUIRED BY THE CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD.
- A COPY OF THE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- WHERE NEWLY CONSTRUCTED PAVING MEETS EXISTING PAVING, THE CONTRACTOR SHALL SAW CUT TO PROVIDE A SMOOTH TRANSITION FROM EXISTING TO PROPOSED PAVING. APPLICATION OF A THIN TACK COAT OF EMULSIFIED ASPHALT SHALL BE APPLIED TO INSURE PROPER BONDING.
- THE COMPLETED SURFACE OF ALL COURSES SHALL BE OF UNIFORM TEXTURE, SMOOTH, UNIFORM AS TO CROWN AND GRADE, AND FREE FROM DEFECTS OF ALL KINDS. THE COMPLETED SURFACE OF THE WEARING COURSE SHALL NOT VARY MORE THAN 1/8 INCH FROM THE LOWER EDGE OF A 10-FOOT STRAIGHTEDGE PLACED ON THE SURFACE PARALLEL TO THE CENTERLINE. THE TRANSVERSE SLOPE OF THE COMPLETED SURFACE OF THE WEARING COURSE SHALL VARY NOT MORE THAN 1/4 INCH IN 10- FEET FROM THE RATE OF TRANSVERSE SLOPE SHOWN ON THE PLANS.
- MATERIALS SAMPLING AND TESTING SHALL BE AT A FREQUENCY AND MAGNITUDE AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS OR DETERMINED BY THE ENGINEER. A PRIVATE AND INDEPENDENT TESTING LABORATORY SHALL PERFORM TESTING AND SAMPLING. CERTIFIED TEST REPORTS SHALL BE FURNISHED FOR ALL TESTS PERFORMED BY PRIVATE TESTING LABORATORIES. THE CITY WILL BE RESPONSIBLE FOR ACCEPTANCE TESTING. IF TESTS FAIL, RETESTS SHALL BE PAID FOR BY THE CONTRACTOR.

ABBREVIATIONS

CB	CATCH BASIN	HMA	HOT MIXED ASPHALT	RPBPA	REDUCED PRESSURE
CONC	CONCRETE	L	LEFT		BACKFLOW PREVENTION
CL	CENTERLINE	LF	LINEAR FEET		ASSEMBLY
CPEP	CORRUGATED POLYETHYLENE	MH	MANHOLE	SPECS	SPECIFICATIONS
CSBC	CRUSHED SURFACING BASE COURSE	MUTCD	MANUAL ON UNIFORM TRAFFIC	SS	SANITARY SEWER
CSTC	CRUSHED SURFACING TOP COURSE		CONTROL DEVICES	SSFM	SANITARY SEWER FORCE
DIAM	DIAMETER	N	NORTHING		MAIN
DI	DUCTILE IRON	OSHA	OCCUPATIONAL SAFETY AND HEALTH	SSMH	SANITARY SEWER MANHOLE
DWG	DRAWING		ADMINISTRATION	ST	STORM
E	EASTING	PE	POLYETHYLENE	STA	STATION LINE
ELEV	ELEVATION	PROP	PROPOSED	SY	SQUARE YARDS
EOP	EDGE OF PAVEMENT	PVC	POLYVINYL CHLORIDE	TV	TELEVISION
EX	EXISTING	R	RIGHT	TYP	TYPICAL
FRP	FIBRE-REINFORCED PLASTIC	RCW	REVISED CODE OF	W	WATER
G	GAS		WASHINGTON	WISHA	WASHINGTON INDUSTRIAL
GIS	GEOGRAPHIC INFORMATION SYSTEM	ROW	RIGHT-OF-WAY		SAFETY AND HEALTH ACT

SECTION AND DETAIL REFERENCES

THE FOLLOWING CONVENTIONS HAVE BEEN USED WITHIN THESE DRAWINGS TO REFER THE READER BETWEEN THE SECTION/DETAIL AND THE PLAN FROM WHICH IT IS REFERENCED. REFERENCE BUBBLES



PLAN REFERENCE BUBBLE - REFERS READER BACK TO THE PLAN FROM WHICH THE DETAIL OR SECTION ORIGINATED.

DETAIL/SECTION REFERENCE BUBBLE - REFERS READER TO THE DRAWING ON WHICH THE DETAIL OR SECTION IS

WHERE, ID = SECTION/DETAIL REFERENCE NUMBER

= DRAWING NUMBER ON WHICH DETAIL ORIGINATED OR RESIDES.

SEWER GENERAL NOTES

- SEE SPECIFICATION APPENDICES FOR CITY SEWER GENERAL NOTES (CH. 5)
- WHEN EXCAVATION OF ROCK IS ENCOUNTERED, ALL ROCK SHALL BE REMOVED TO PROVIDE A CLEARANCE BELOW, ON EACH SIDE OF ALL PIPE, AND FITTINGS OF AT LEAST 6 INCHES FOR PIPE SIZES 24 INCHES OR SMALLER. MATERIAL REMOVED SHALL BE REPLACED WITH APPROPRIATE BACKFILL MATERIAL, WHICH SHALL BE COMPACTED TO 95% STANDARD PROCTOR.
- EXISTING SEWER LINES TO BE ABANDONED SHALL BE REMOVED OR FILLED COMPLETELY WITH SAND, CONCRETE OR CONTROLLED DENSITY FILL. AT THE MANHOLE CONNECTION, WHERE EXISTING SEWER MAIN IS TO BE ABANDONED, THE MANHOLE SHALL BE RECHANNELED WITH 4,000 PSI CEMENT CONCRETE.

SURVEY NOTES

DATA FOR THIS SURVEY HAS BEEN GATHERED THROUGH FIELD OBSERVATIONS, BY METRON AND ASSOCIATES IN FEBRUARY 2016

HORIZONTAL DATUM:

NAD 83/91. WASHINGTON STATE PLANE, NORTH ZONE.

VERTICAL DATUM:

NAVD 88

JNDERGROUND UTILITY NOTE

UNDERGROUND UTILITY LOCATIONS FOR STORM, SEWER AND WATER, AS SHOWN HEREON, ARE BASED UPON THE AS-BUILT LOCATIONS OF UTILITY STRUCTURES, CITY OF ARLINGTON UTILITY AS-BUILT MAPS. CITY GIS MAPS AND UTILITY LOCATE PAINT MARKS.

JNDERGROUND UTILITY LOCATIONS FOR ELECTRIC SERVICE, TELEPHONE, TV CABLE AND GAS ARE BASED ON UTILITY STRUCTURES. UTILITY SERVICE MAPS AND "CALL 811 BEFORE YOU DIG" UTILITY LOCATE PAINT MARKS.

THE USE OF THIS MAP FOR THE PRECISE LOCATION OF THE UTILITY LINES IS NOT WARRANTED OR GUARANTEED.

RCW 19.122 REQUIRES 48 HOUR NOTIFICATION PRIOR TO UNDERGROUND CONSTRUCTION ACTIVITY. CONTACT "CALL BEFORE YOU DIG" UTILITY LOCATE SERVICE AT 811.



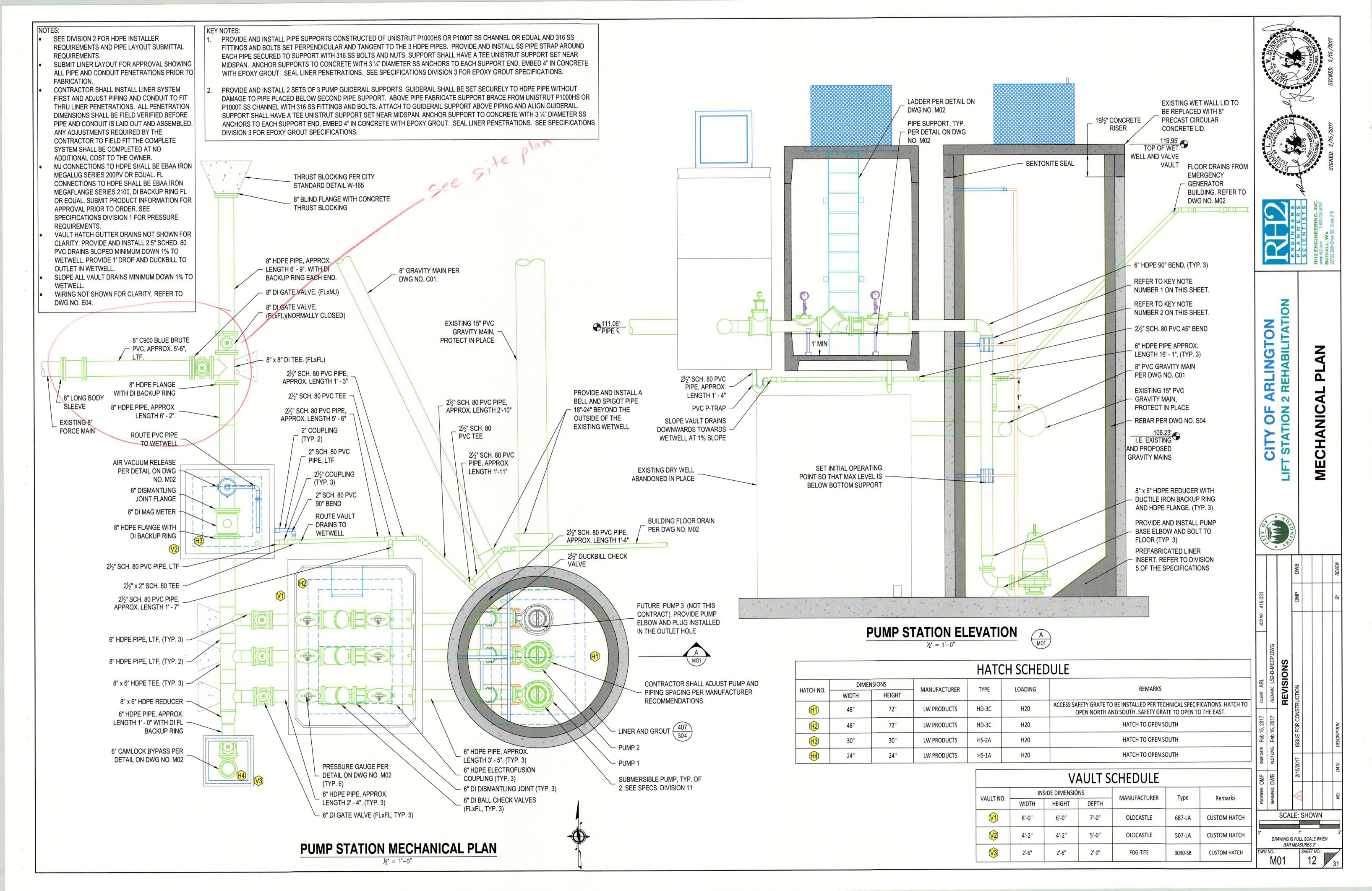


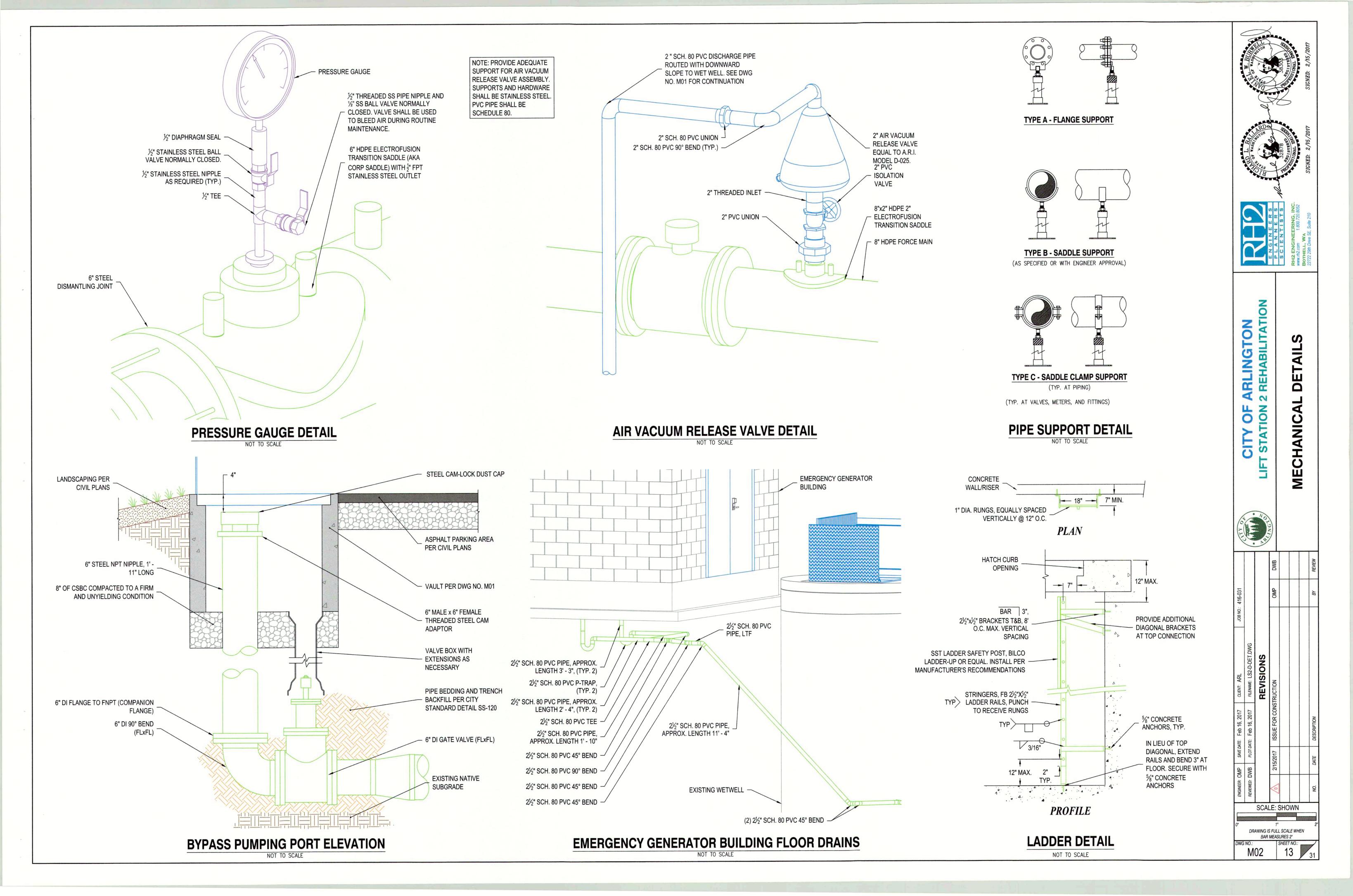


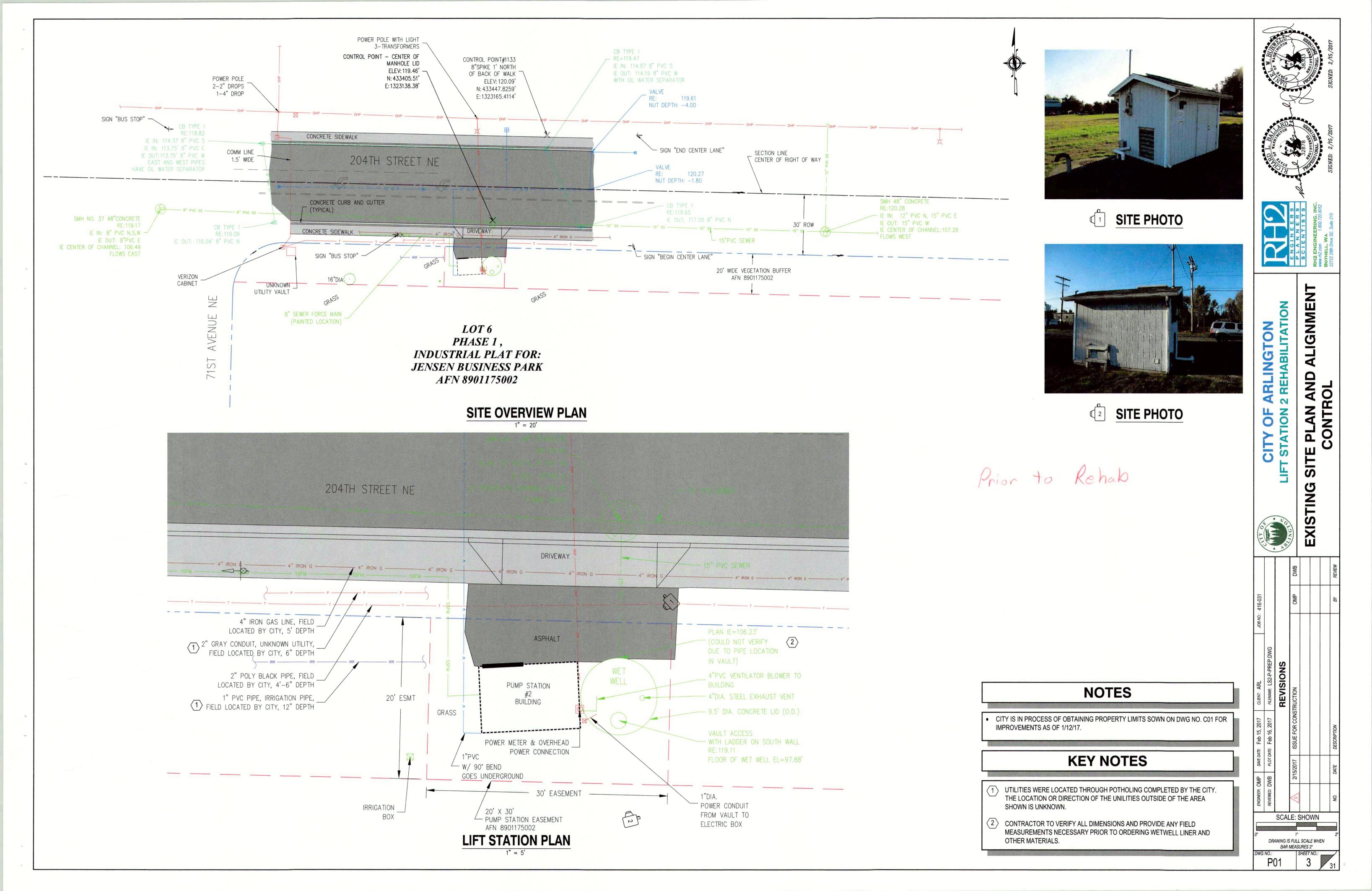
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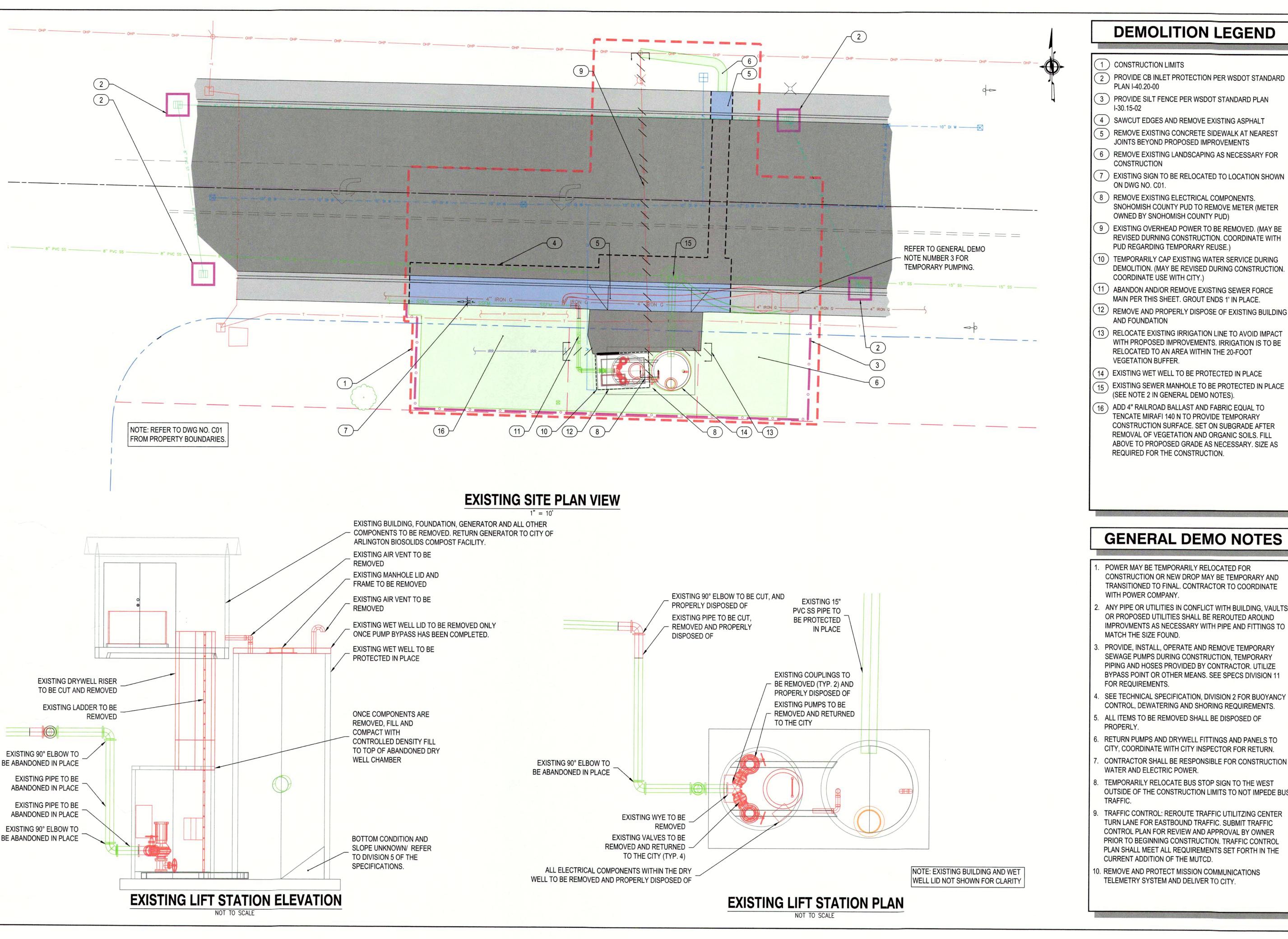
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DEMOLITION LEGEND

- 2 PROVIDE CB INLET PROTECTION PER WSDOT STANDARD
- 3 PROVIDE SILT FENCE PER WSDOT STANDARD PLAN
- 5 REMOVE EXISTING CONCRETE SIDEWALK AT NEAREST
- (6) REMOVE EXISTING LANDSCAPING AS NECESSARY FOR
- SNOHOMISH COUNTY PUD TO REMOVE METER (METER
- REVISED DURNING CONSTRUCTION. COORDINATE WITH
- (10) TEMPORARILY CAP EXISTING WATER SERVICE DURING DEMOLITION. (MAY BE REVISED DURING CONSTRUCTION.
- (11) ABANDON AND/OR REMOVE EXISTING SEWER FORCE MAIN PER THIS SHEET. GROUT ENDS 1' IN PLACE.
- (12) REMOVE AND PROPERLY DISPOSE OF EXISTING BUILDING
- WITH PROPOSED IMPROVEMENTS. IRRIGATION IS TO BE RELOCATED TO AN AREA WITHIN THE 20-FOOT
- (15) EXISTING SEWER MANHOLE TO BE PROTECTED IN PLACE
- 16) ADD 4" RAILROAD BALLAST AND FABRIC EQUAL TO TENCATE MIRAFI 140 N TO PROVIDE TEMPORARY CONSTRUCTION SURFACE. SET ON SUBGRADE AFTER REMOVAL OF VEGETATION AND ORGANIC SOILS. FILL ABOVE TO PROPOSED GRADE AS NECESSARY, SIZE AS

- POWER MAY BE TEMPORARILY RELOCATED FOR CONSTRUCTION OR NEW DROP MAY BE TEMPORARY AND TRANSITIONED TO FINAL. CONTRACTOR TO COORDINATE
- 2. ANY PIPE OR UTILITIES IN CONFLICT WITH BUILDING, VAULTS, OR PROPOSED UTILITIES SHALL BE REROUTED AROUND IMPROVMENTS AS NECESSARY WITH PIPE AND FITTINGS TO
- PROVIDE, INSTALL, OPERATE AND REMOVE TEMPORARY SEWAGE PUMPS DURING CONSTRUCTION, TEMPORARY PIPING AND HOSES PROVIDED BY CONTRACTOR, UTILIZE BYPASS POINT OR OTHER MEANS, SEE SPECS DIVISION 11
- CONTROL, DEWATERING AND SHORING REQUIREMENTS.
- . ALL ITEMS TO BE REMOVED SHALL BE DISPOSED OF
- RETURN PUMPS AND DRYWELL FITTINGS AND PANELS TO CITY, COORDINATE WITH CITY INSPECTOR FOR RETURN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION
- . TEMPORARILY RELOCATE BUS STOP SIGN TO THE WEST OUTSIDE OF THE CONSTRUCTION LIMITS TO NOT IMPEDE BUS
- TURN LANE FOR EASTBOUND TRAFFIC. SUBMIT TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY OWNER PRIOR TO BEGINNING CONSTRUCTION. TRAFFIC CONTROL PLAN SHALL MEET ALL REQUIREMENTS SET FORTH IN THE



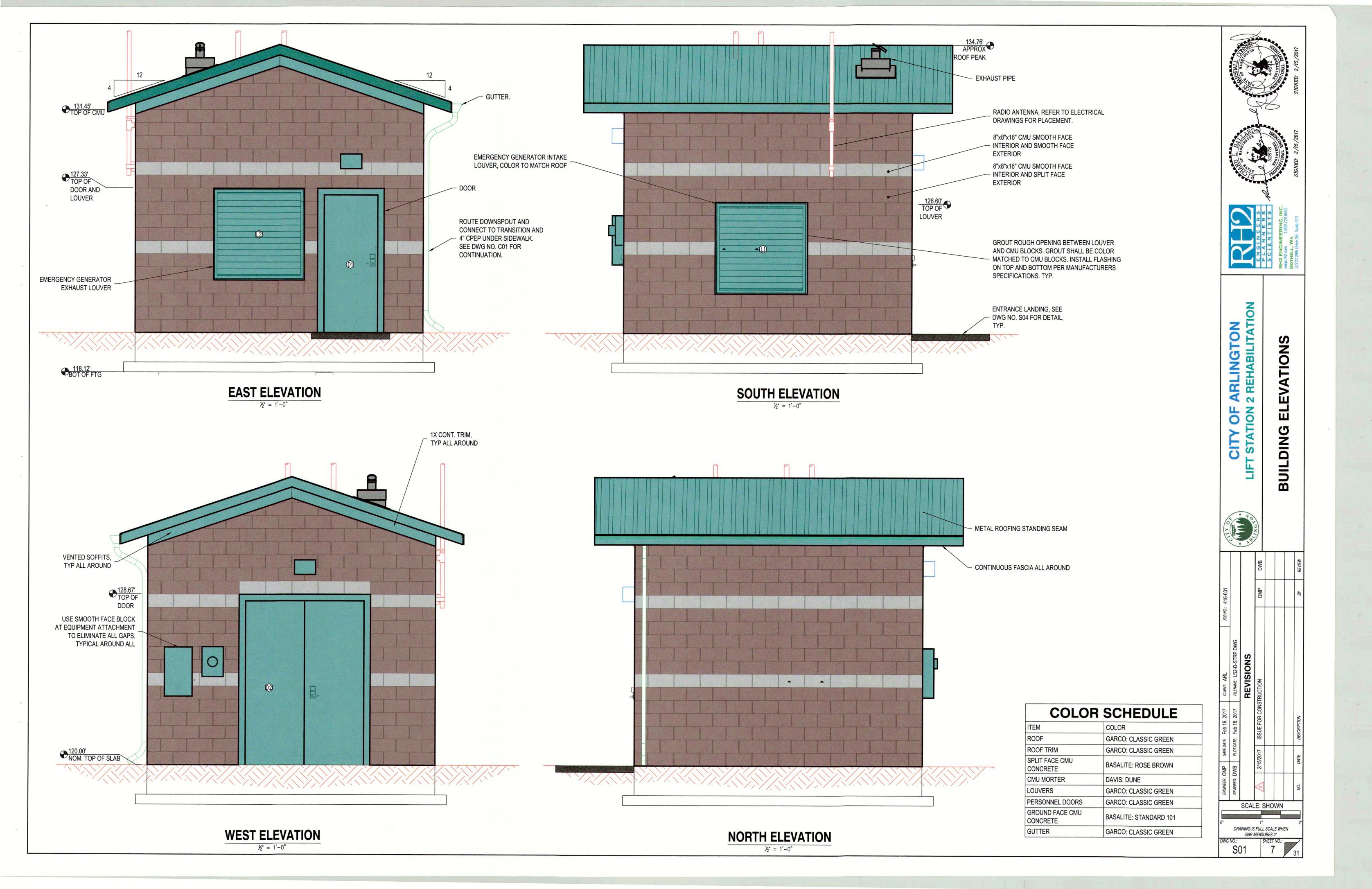


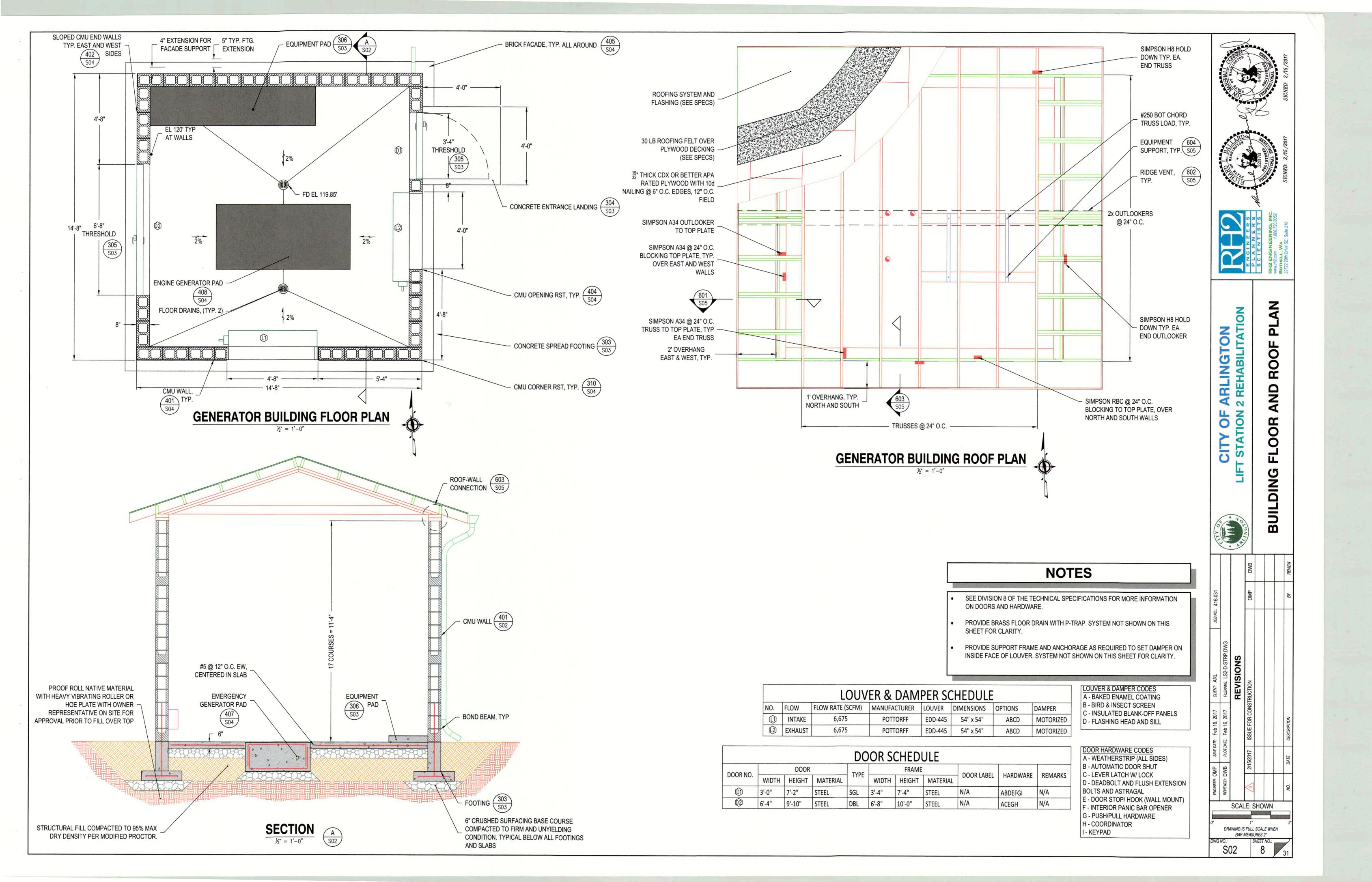


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GEOTECHNICAL PARAMETERS:

MINIMUM FROST DEPTH MAXIMUM NET BEARING SOILS REPORT REFERENCE

OTHER LOADING PARAMETERS:

WIND LOAD SNOW LOAD EARTHQUAKE LOAD

115 MPH, EXPOSURE C 25 PSF LAT 48.18075, LONG 122.13385, SOIL PROFILE TYPE D

"GEOTECHNICAL ENGINEERING SERVICES"

PREPARED BY MURRAY, SMITH & ASSOCIATES, INC.

4,000 PSF STATIC

OTHER DESIGN VALUES USED:

OCCUPANCY CATEGORY CONCRETE CMU STEEL **TIMBER**

ESSENTIAL FACILITY 4,000 PSI WITH 60,000 PSI REINFORCING 1,500 PSI WITH 60,000 PSI REINFORCING A36 FOR PLATES, A992 FOR OTHER PER FRAME MANUFACTURER

LIVE LOADS ROOF

ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (2012 EDITION)

SPECIAL INSPECTIONS, TESTS, AND OBSERVATIONS:

SPECIAL INSPECTIONS AND TESTS SHALL INCLUDE THE FOLLOWING. REFER TO IBC SECTION 1704 AND 1705 FOR DETAILS.

20 PSF

1. SPECIAL INSPECTIONS BY THE GEOTECHNICAL ENGINEER INCLUDING:

1.1. SITE EXCAVATION AND GRADING

1.2. PLACEMENT OF STRUCTURAL FILL AND SOIL COMPACTION

1.3. VERIFICATION OF SOIL-BEARING CAPACITY

2. CONCRETE PLACEMENT AT CONCRETE CONSTRUCTION: CONTINUOUS, SEE ALSO SECTION 1705.3 OF THE INTERNATIONAL BUILDING CODE.

3. REINFORCEMENT AT CONCRETE CONSTRUCTION: PERIODIC, SEE ALSO SECTION 1705.3. 4. MASONRY CONSTRUCTION, INCLUDING PLACEMENT OF MASONRY UNITS, MORTAR

REINFORCEMENT AND STRUCTURAL CONNECTIONS: PERIODIC, SEE ALSO SECTION TMS 602 / ACI 530.1 / ASCE 6, TABLE 5.

5. GROUT PLACEMENT AT MASONRY CONSTRUCTION: CONTINUOUS, SEE ALSO SECTION TMS 602 ACI 530.1 / ASCE 6, TABLE 5.

6. WOOD-FRAMED LATERAL-FORCE RESISTING SYSTEM: PERIODIC, SEE ALSO SECTION 1705.10.

7. TESTING OF CONCRETE FOR SPECIFIED COMPRESSIVE STRENGTH (FC), AIR CONTENT AND SLUMP. SEE ALSO TABLE 1705.3.

8. VERIFICATION OF SPECIFIED COMPRESSIVE STRENGTH (FM) OF MASONRY PRIOR TO CONSTRUCTION AND EVERY 5,000 SQUARE FEET DURING CONSTRUCTION. SEE ALSO TMS 602 / ACI 530.1 / ASCE 6, TABLE 5.

9. STRUCTURAL OBSERVATION BY A REGISTERED DESIGN PROFESSIONAL IN ACCORDANCE WITH IBC 1704.5 SHALL BE PROVIDED.

GENERAL:

LINES SHOWN ON DRAWINGS MAY BE ASSOCIATED WITH CAD MODELING AND MAY NOT REPRESENT REQUIRED OR ALLOWED JOINTS. SEE DETAILS FOR CLARIFICATION ON REQUIRED AND ALLOWED JOINTS.

REINFORCED CONCRETE:

1. REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315-99 AND 318-11. LAP ALL REINFORCEMENTS IN ACCORDANCE WITH THE "REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE" - SEE THIS SHEET. PROVIDE CORNER BARS AT ALL WALL INTERSECTIONS PER DETAIL 303. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.

2. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.

3. A 6" WATERSTOP SHALL BE PLACED AT ALL BELOW GRADE CONCRETE SLAB AND WALL CONSTRUCTION JOINTS AND AS SHOWN TO PROVIDE A WATERTIGHT STRUCTURE.

4. CONCRETE PROTECTION FOR REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:

4.1. FOOTINGS AND OTHER UNIFORMED SURFACES CAST AGAINST AND

4.2. FORMED SURFACES EXPOSED TO EARTH (WALLS BELOW GRADE). WATER OR WEATHER (#6 BARS OR LARGER) 2"

4.3. COLUMN TIES OR SPIRALS AND BEAM STIRRUPS 2" 4.4. SLABS AND INTERIOR FACES 2"

ABBREVIATIONS: AL - ALUMINUM CHK - CHECKERED CL - CENTERLINE CLR - CLEAR EA - EACH EF - EACH FACE FB - FLAT BAR GALV - GALVANIZED HORZ - HORIZONTAL LLV - LONG LEG VERT O.C. - ON CENTER PL - PLATE RB - ROUND BAR RST - REINF. STEEL SST - STAINLESS STEEL

T&B - TOP & BOTTOM

VERT - VERTICAL

	REINFORCEMENT SPLICE AND DEVELOPMENT SCHEDULE								
		STRAIGHT ENT LENGTHS	MINIMUM LAP SPLICE LENGTHS	MINIMUM EMBEDMENT LENGTHS					
BAR	TOP BARS	OTHER BARS	TOP BARS	ALL BARS					
#4	25"	19"	33"	7"					
#5	31"	24"	41"	9"					
#6	37"	29"	49"	10"					
#7	54"	42"	71"	12"					
"TOP BA	"TOP BARS" ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF								

CONCRETE CAST BELOW THEM. F CLEAR CONCRETE COVER IS LESS THAN 2x THE DIAMETER OF THE BAR OR THE CENTER-TO-CENTER SPACING IS LESS THAN (4) BAR DIAMETERS, THEN VALUES SHALL BE INCREASED BY 43% SIDE COVER MUST BE EQUAL TO OR GREATER THAN 2-1/2" END COVER FOR 90° HOOKS MUST BE EQUAL TO OR GREATER THAN 2"

CMU ANCHORS FOR USE GROUTED CMU CELLS SHALL BE EITHER HILTI HIT-HY 70 INJECTABLE MORTAR, SIMPSON STRONG-TIE ET-HP ANCHORING ADHESIVE, OR POWERS AC100+ GOLD ADHESIVE ANCHORS. CMU ANCHORS FOR USE IN UNGROUTED CMU CELL SHOULD BE AVOIDED. WHEN UNAVOIDABLE, ANCHORS SHALL BE HILTI HIT-HY 70.

WHERE SIZE IS CALLED OUT ON THE DRAWINGS, PROVIDE MINIMUM EMBEDMENT DEPTHS AS SHOWN ON THE FOLLOWING TABLES. PROVIDE MINIMUM EDGE DISTANCES AND SPACING AS SHOWN ON THE FOLLOWING TABLES UNLESS SPECIFICALLY DETAILED OTHERWISE.

INSTALL ANCHORS IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

NOTIFY OWNER 24 HOURS IN ADVANCE OF INSTALLATION OF ALL ANCHORS.

WHERE SIZE IS NOT CALLED OUT, ANCHOR SHALL BE SELECTED BASED ON DESIGN LOADS. IF THE MINIMUM EDGE DISTANCE AND/OR MINIMUM SPACING CAN NOT BE ACHIEVED, REFER TO PRODUCT INFORMATION FOR REDUCTION IN ALLOWABLE LOADS.

(Ps / Pt) + (Vs / Vt) = 1

FORCES ARE DETERMINED BY THE FOLLOWING FORMULA:

Ps = APPLIED SERVICE TENSION LOAD Pt = ALLOWABLE SERVICE TENSION LOAD Vs = APPLIED SERVICE SHEAR LOAD Vt = ALLOWABLE SERVICE SHEAR LOAD

THE ABOVE FORMULA IS FOR THE ALLOWABLE LOADS FOR ANCHORS SUBJECTED TO COMBINED TENSION AND SHEAR.

Н	ILTI HIT-HY 70, SI		MU ANCHORS -TIE ET-HP & POW	ERS AC100+ GOL	D
DIA. OF ROD (INCHES) OR REBAR SIZE NO.	MIN. EDGE DISTANCE (INCHES)	MIN. EMBEDMENT (INCHES)	MIN. ANCHOR SPACING (INCHES)	ALLOWABLE LOAD BASED ON BOND STRENGTH (POUNDS)	
				TENSION	SHEAR
3/8	12	3-3/8	(1) PER CELL	1,000	845
1/2	12	4-1/2	(1) PER CELL	1,000	1,470
5/8	12	5-5/8	(1) PER CELL	1,140	1,595
3/4	12	6-3/4	(1) PER CELL	1,200	1,625
#3	12	3-3/8	(1) PER CELL	1,000	850
#4	12	4-1/2	(1) PER CELL	1,000	1,355
#5	12	5-5/8	(1) PER CELL	1,140	1,355

UNGROUTED CMU ANCHORS HILTI HIT-HY 70								
DIA. OF ROD (INCHES) OR	NCHES) OR DISTANCE EMBEDMENT SPA	MIN. ANCHOR SPACING	ALLOWABLE LOAD BASED ON BOND STRENGTH (POUNDS)					
REBAR SIZE NO.		(INCHES)	(INCHES)	TENSION	SHEAR			
3/8	12	3	(1) PER CELL	280	265			
1/2	12	3	(1) PER CELL	280	265			
5/8	12	3	(1) PER CELL	280	265			
3/4	12	3	(1) PER CELL	280	265			
#3	12	3	(1) PER CELL	280	265			
#4	12	3	(1) PER CELL	280	265			
#5	12	3	(1) PER CELL	280	265			

CMU ANCHOR (301)

CONCRETE ANCHORS SHALL BE EITHER HILTI HIT-RE 500-SD INJECTABLE MORTAR, SIMPSON STRONG-TIE SET-XP ANCHORING ADHESIVE, OR POWERS PE1000+ ADHESIVE ANCHORS AS SPECIFIED. WHERE SIZE IS CALLED OUT ON THE DRAWINGS, PROVIDE MINIMUM EMBEDMENT DEPTHS AS SHOWN ON THE FOLLOWING TABLES. PROVIDE MINIMUM EDGE DISTANCES AND SPACING AS SHOWN ON THE FOLLOWING TABLES UNLESS SPECIFICALLY DETAILED OTHERWISE.

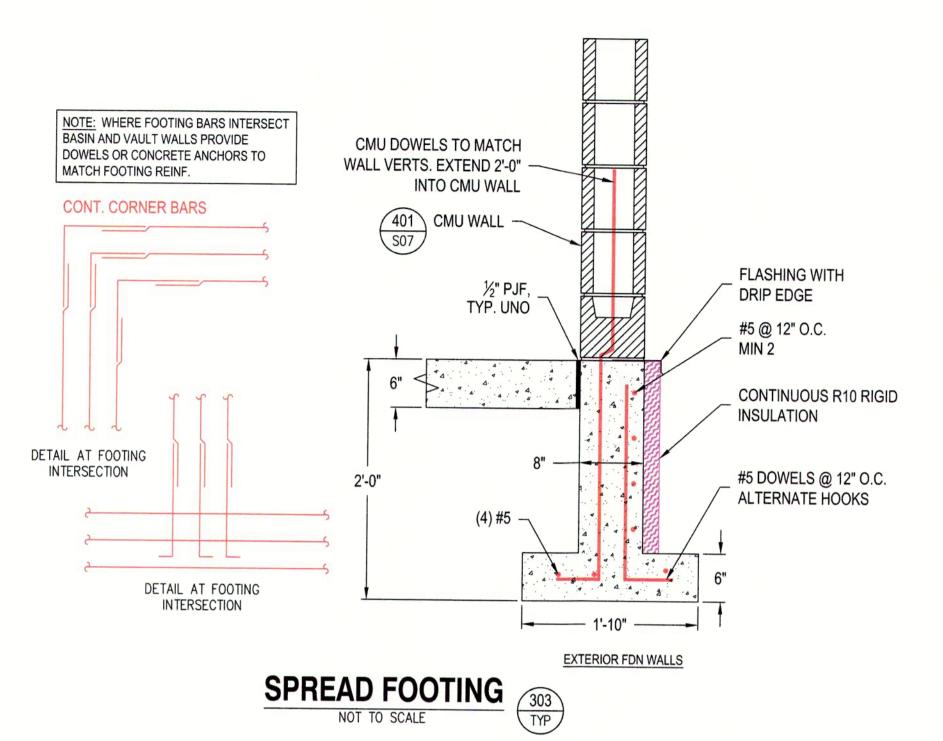
INSTALL ANCHORS IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

NOTIFY OWNER 24 HOURS IN ADVANCE OF INSTALLATION OF ALL ANCHORS.

WHERE SIZE IS NOT CALLED OUT, ANCHOR SHALL BE SELECTED BASED ON DESIGN LOADS IF THE MINIMUM EDGE DISTANCE AND/OR MINIMUM SPACING CAN NOT BE ACHIEVED, REFER TO PRODUCT INFORMATION FOR REDUCTION IN ALLOWABLE LOADS.

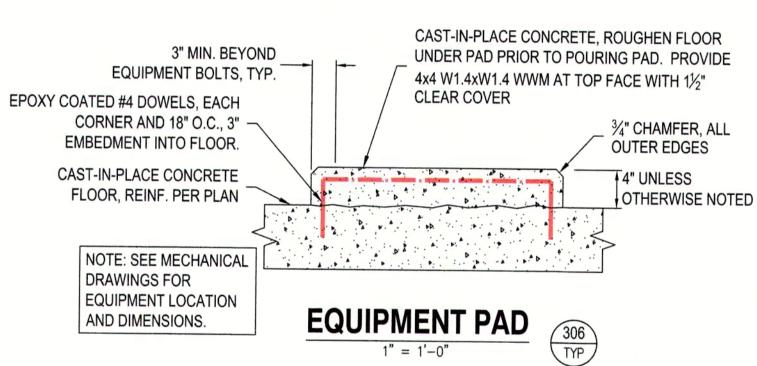
н	LTI HIT-RE 500-S		E ANCHORS ONG-TIE SET-XP &	POWERS PE1000)+
DIA. OF ROD (INCHES) OR REBAR SIZE NO.	MIN. EDGE DISTANCE (INCHES)	MIN. EMBEDMENT (INCHES)	MIN. ANCHOR SPACING (INCHES)	ALLOWABLE LOAD BASED ON BOND STRENGTH (POUNDS)	
				TENSION	SHEAR
1/2	2-1/2	2-3/4	2-1/2	1,027	2,210
5/8	3-1/8	3-1/8	3-1/8	1,312	2,827
3/4	3-3/4	3-1/2	3-3/4	1,556	3,351
7/8	4-3/8	3-1/2	4-3/8	1,556	3,351
#4	2-1/2	4-1/2	2-1/2	1,520	3,618
#5	3-1/8	5-5/8	3-1/8	1,775	5,494
#6	3-3/4	6-3/4	3-3/4	2,225	7,570
#7	4-3/8	7-7/8	4-3/8	2,440	9,428
#8	5	9	5	4,520	11,507

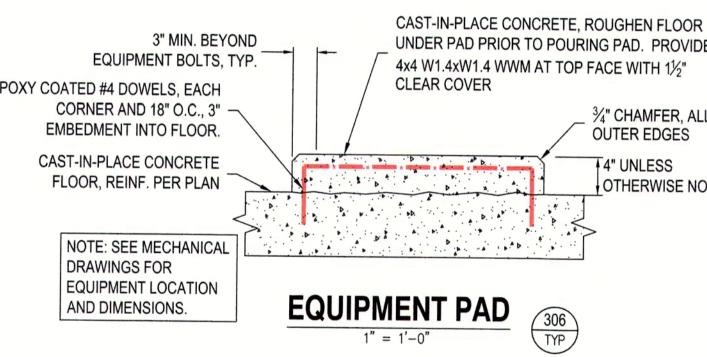
CONCRETE ANCHOR (302)

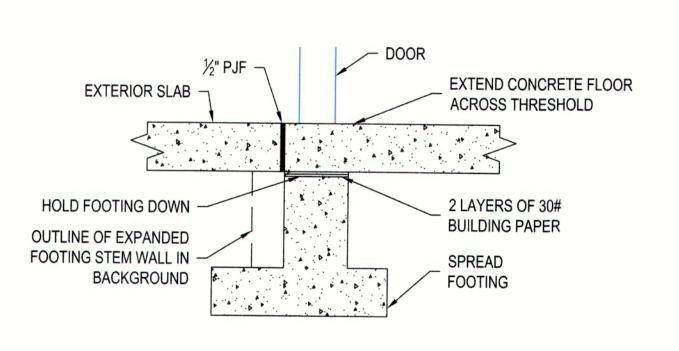


CONCRETE #3 @ 12" O.C., EACH **FLOOR** WAY, CENTER OF SLAB. CAST-IN-PLACE CONCRETE LANDING. SLOPE AWAY *⊢* ¾" PJF FROM DOOR AT 1% MIN. **PROPOSED** GRADE PER PLAN NOTE: ENTRANCE LANDING, WIDTH EQUAL TO DOOR WIDTH PLUS 3" EACH SIDE, OR AS NOTED.

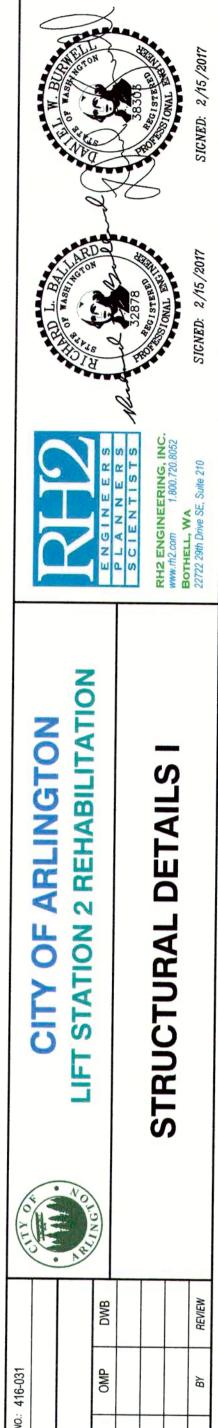
TYPICAL ENTRANCE LANDING DETAIL 304 NOT TO SCALE



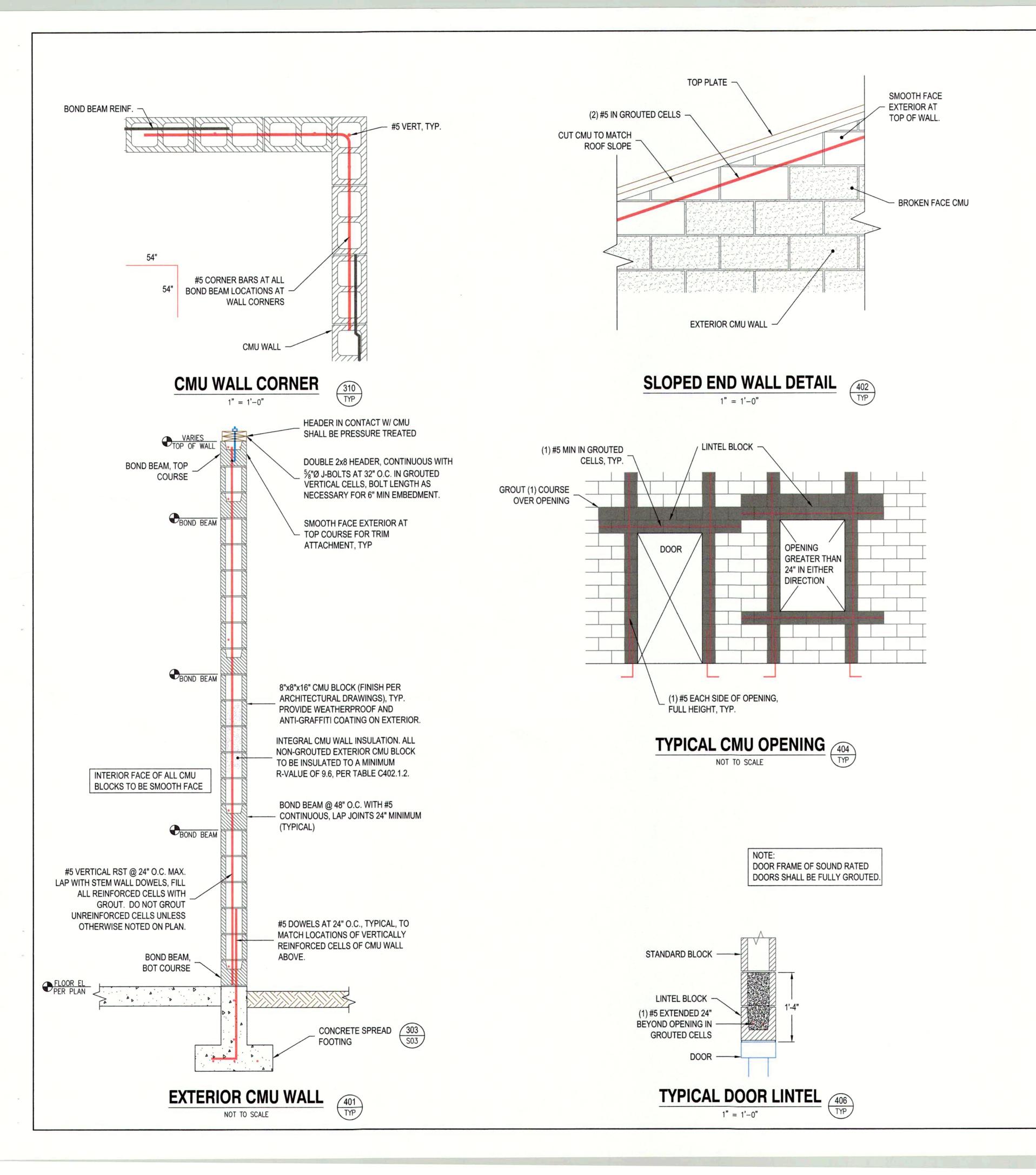


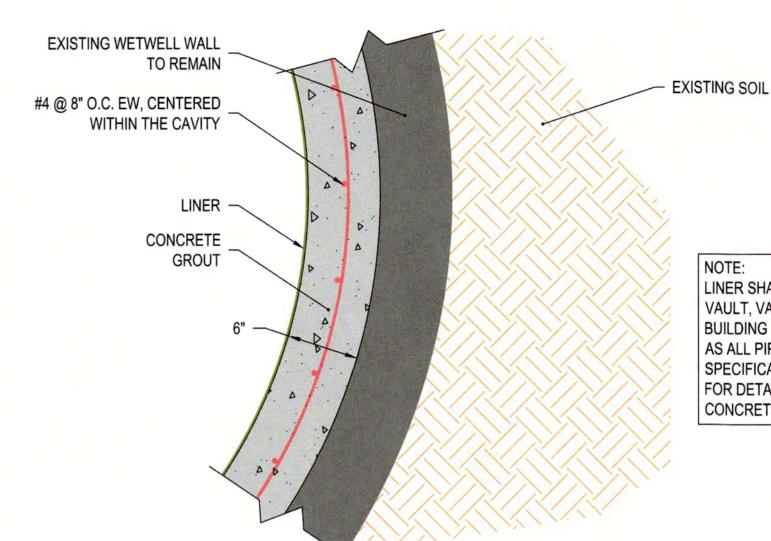






REVISIONS SCALE: SHOWN DRAWING IS FULL SCALE WHEN BAR MEASURES 2"





LINER SHALL ACCOMMODATE VAULT, VAULT LIDS AND BUILDING DRAIN LINES AS WELL AS ALL PIPE AND CONDUIT, SEE SPECIFICATIONS DIVISION 5 FOR DETAILS, GROUT CONCRETE AROUND PIPING.



ARLINGTON 2 REHABILITATION

OF NO

DETAILS

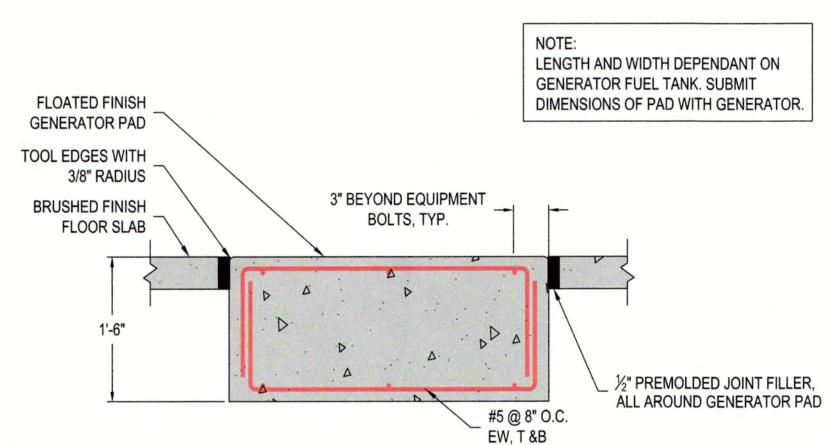
STRUCTURAL

LINER REINFORCEMENT DETAIL

TYP

TYP





EMERGENCY GENERATOR PAD

SCALE: SHOWN DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

SHEET NO.:

S04

