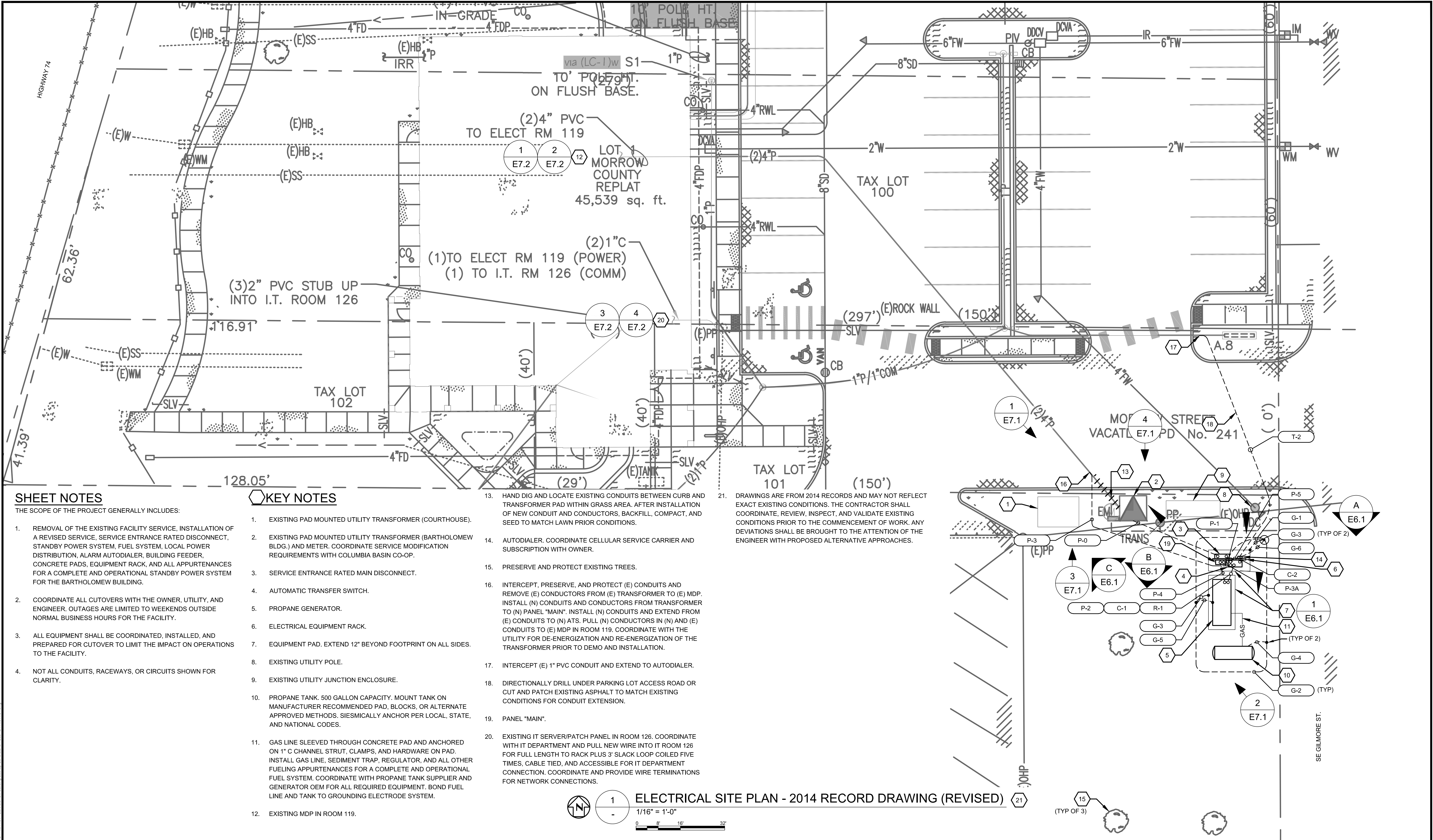


DRAWING LIST		SYMBOL	DESCRIPTION	SYMBOL		DESCRIPTION	GENERAL NOTES
DRAWING NO.	SHEET TITLE			SCHEMATIC	PLAN		
E1.1	ELECTRICAL SYMBOL AND LEGEND SHEET		DEVICE TERMINAL			GROUND ROD IN GROUND ROD BOX	1. "GENERAL NOTES" APPLY TO ALL DRAWINGS. "SHEET NOTES" APPLY TO ALL OF THE SHEETS ON WHICH THEY OCCUR. "KEYNOTES" APPLY ONLY WHERE CALLED OUT.
E2.1	ELECTRICAL SITE PLAN - 2014 RECORD DRAWING (REVISED)		TERMINAL IN CONTROL PANEL			BATTERY	2. CONTRACTOR SHALL PROVIDE CONDUIT AND WIRE FROM ALL CONTROL DEVICES TO LUMINAIRES FOR CONTROL OF LUMINAIRES SHOWN.
E3.1	ELECTRICAL SINGLE LINE DIAGRAM (REVISED)		THERMAL OVERLOAD RELAY			TRANSFORMER, PLAN VIEW SHOWN TO SCALE	3. BRANCH CIRCUIT CONDUCTORS, NOT OTHERWISE IDENTIFIED SHALL BE A MINIMUM 12 AWG FOR RUNS 70 FEET OR LESS AND A MINIMUM 10 AWG FOR RUNS GREATER THAN 70 FEET. QUANTITY AND SIZE SHALL BE "AS REQUIRED" TO SERVE AND CONTROL DEVICE(S) OR EQUIPMENT WITH A MAXIMUM VOLTAGE DROP OF THREE PERCENT. WHERE CONTRACTOR CHOOSES TO RUN MORE THAN THREE CURRENT CARRYING CONDUCTORS WITHIN ONE RACEWAY OR CABLE, CONDUCTORS SHALL BE INCREASED IN SIZE TO COMPENSATE FOR THE DERATING REQUIRED PER NEC SECTION 310.15. CONDUCTOR AMPACITIES SHALL BE TAKEN FROM THE 75°C COLUMN.
E4.1	ELECTRICAL WIRING DIAGRAMS		SOLID STATE OVERLOAD			CURRENT TRANSFORMER, NUMBER INDICATES NUMBER OF C.T.'S. PLAN VIEW SHOWN TO SCALE	4. MINIMUM CONDUIT IN EXTERIOR AND UNDERGROUND LOCATIONS TO BE 1". MINIMUM CONDUIT FOR INTERIOR BRANCH CIRCUITS TO BE 3/4". CONDUITS FROM LUMINAIRES TO LOCAL USER CONTROL DEVICES (SWITCHES, OCCUPANCY SENSORS, ETC.) MAY BE 1/2" OR AS INDICATED IN SPECIFICATIONS. PROVIDE ADDITIONAL CONDUCTOR FOR UNSWITCHED "HOT" TO LIGHTING LUMINAIRES WITH EMERGENCY POWER BATTERIES OR GENERATOR TRANSFER DEVICES.
E5.1	ELECTRICAL SCHEDULES		MOTORIZED LOUVER			MOTOR, NUMBER INDICATES HORSEPOWER	5. CONTRACTOR SHALL PROVIDE CONDUIT AND WIRE FOR ALL CIRCUITS SHOWN ON DRAWINGS.
E5.2	ELECTRICAL SCHEDULES		EXHAUST FAN			ELECTRIC HEATER WINDING, WATTAGE INDICATED	6. WHERE EQUIPMENT PART NUMBERS ARE SHOWN ON THESE PLANS THEY SHALL SUPERCEDE THE REQUIREMENTS OF THE SPECIFICATIONS.
E6.1	ELECTRICAL DETAILS		CONDUIT CONCEALED IN WALL, CEILING, UNDER FLOOR, IN FLOOR SLAB, OR ROUTED UNDERGROUND			GENERATOR, PLAN VIEW SHOWN TO SCALE	7. PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR ALL BRANCH CIRCUITS.
E7.1	ELECTRICAL PHOTO DETAILS		CONDUIT EXPOSED			SOLENOID VALVE	8. ALL EQUIPMENT SHOWN IN BOLD LINEWEIGHT SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED. EXISTING ELECTRICAL EQUIPMENT, BACKGROUND AND/OR WORK/EQUIPMENT THAT IS TO BE PROVIDED BY OTHERS IS SHOWN IN LIGHTER LINEWEIGHTS.
E7.2	ELECTRICAL PHOTO DETAILS		EXISTING CONDUIT ROUTED UNDERGROUND			FULL VOLTAGE NON-REVERSING STARTER/NEMA SIZE MS = MOTOR STARTER CONTACT BP = BYPASS CONTACTOR IC = ISOLATION CONTACTOR FVNR = FULL VOLTAGE NON-REVERSING	9. CONTRACTOR SHALL KEEP A FULL-SIZE DRAWING SET ON SITE AND NOTE ALL DEVIATIONS TO THE CONSTRUCTION DRAWINGS AS WELL AS NOTE LOCATIONS OF CONDUIT RUNS (OR OTHER ITEMS) WHICH ARE NOT SHOWN ON THE CONSTRUCTION DRAWINGS. THESE DRAWINGS SHALL BE TRANSCRIBED UPON COMPLETION OF THE PROJECT ONTO A CLEAN SET AND BECOME THE PROJECTS RECORD DRAWINGS. THEY SHALL BE TURNED OVER TO THE OWNER PRIOR TO FINAL PAYMENT.
SYMBOL	DESCRIPTION						
	LIGHTING FIXTURE, SURFACE "L1" INDICATES TYPE PER LUMINAIRE SCHEDULE "P1-2" INDICATES CIRCUITING "a" INDICATES SWITCHING		LIGHTING FIXTURE, RECESSED		STRIP, SURFACE OR PENDANT AS INDICATED IN LUMINAIRE SCHEDULE		LIGHTING FIXTURE, EMERGENCY
	LIGHTING FIXTURE, CEILING MOUNTED		FIXTURE, WALL MOUNT		EXIT LIGHT, ↓ INDICATES DIRECTION OF ARROW		EMERGENCY WALL PACK
	LIGHTING FIXTURE, POLE MOUNTED		CONDUIT TURNED UP OR TOWARD		CONDUIT TURNED DOWN OR AWAY		CONDUIT CAPPED
	SURFACE METAL RACEWAY W/RECEPTACLE @ X" O.C.		CONDUIT HOME RUN 3/4"C, 2#12 & 1#12 GND. UNLESS SHOWN OTHERWISE. (EXAMPLE SHOWN: TO PANEL P1, CIRCUIT 1)		HANDHOLE WITH DESIGNATION		JUNCTION BOX
	DOUBLE DUPLEX RECEPTACLES		CKT. BKR. RATING/NO. OF POLES WITH THERMAL MAGNETIC CIRCUIT BREAKER TRIP		MANUAL OR AUTOMATIC TRANSFER SWITCH		POWER CAPACITOR
	DUPLEX RECEPTACLE P1-4= CIRCUIT NUMBER (TYP) GFCI= CLASS A, GROUND FAULT CIRCUIT INTERRUPTER WP= WEATHER PROOF XP= EXPLOSION PROOF		VARIABLE FREQUENCY DRIVE (XXA INDICATES CURRENT RATING)		SOLID STATE STARTER, REDUCED VOLTAGE WITH INTEGRAL & BYPASS CONTACTORS (XXA INDICATES CURRENT RATING)		FUSE
	SPECIAL PURPOSE RECEPTACLE		DIGITAL METERING SYSTEM		CR = CONTROL RELAY TDR = TIME DELAY RELAY TR = TIMER RELAY		PHASE FAIL RELAY & FUSE
	THERMOSTAT		RUN TIME METER		PHOTO ELECTRIC CELL		CONDUCTORS NOT CONNECTED
	SMOKE DETECTOR		CONDUCTORS CONNECTED		PULL OUT SWITCH/PLUG-RECEPTACLE CONNECTION		HORN
	HEAT DETECTOR		HORN		SEAL OFF		INTERCOM STATION
	DATA OUTLET		INTERCOM STATION		POWER POLE		SANITARY SEWER
	TELEPHONE OUTLET		SANITARY SEWER				
	COMBINATION DATA/TELEPHONE OUTLET						
	SINGLE POLE SWITCH						
	2 = DOUBLE POLE SWITCH						
	3 = THREE WAY SWITCH						
	4 = FOUR WAY SWITCH						
	P = SWITCH AND PILOT LAMP						
	K = KEY OPERATED SWITCH						
	M = MOTOR RATED SWITCH (FOR USE WITH THERMALLY PROTECTED MOTORS)						
	WP = WEATHER PROOF SWITCH						
	T = SWITCH WITH TIMER						
	PANELBOARD						
	HUMIDISTAT						
	OCCUPANCY SENSOR						
	EQUIPMENT TO BE REMOVED						

ABBREVIATIONS	
AFC AFG AF AFCI AFF AI AIC AHJ AO ATS BC BH C CB COMM CPT CT DI DO EC EF EMT FAAP	AVAILABLE FAULT CURRENT ABOVE FINISHED GRADE AMP FRAME ARC FLASH CIRCUIT INTERRUPTER ABOVE FINISHED FLOOR ANALOG INPUT POINT AMPERE INTERRUPTING CAPACITY AUTHORITY HAVING JURISDICTION ANALOG OUTPUT POINT AUTOMATIC TRANSFER SWITCH BATTERY CHARGER BLOCK HEATER CONDUIT CIRCUIT BREAKER COMMUNICATIONS CONTROL POWER TRANSFORMER CURRENT TRANSFORMER AC DIGITAL INPUT POINT AC DIGITAL OUTPUT POINT ELECTRICAL CONTRACTOR EXHAUST FAN ELECTRICAL METALLIC TUBING FIRE ALARM ANNUNCIATOR PANEL
GFCI GFP GND GRS HH HOA IC IMC ISR JBXX LCP LTG MCC MDP MLO NL NTS OC OH OIT OS PB	FIRE ALARM CONTROL PANEL GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT PROTECTION GROUND GALVANIZED RIGID STEEL CONDUIT HANDHOLE HAND-OFF-AUTO ISOLATION CONTACT INTERMEDIATE METALLIC CONDUIT INTRINSICALLY SAFE RELAY JUNCTION BOX LIGHTING CONTROL PANEL LIGHTING MOTOR CONTROL CENTER MAIN DISTRIBUTION PANEL MAIN LUGS ONLY NIGHT LIGHT NOT TO SCALE ON CENTER OVERHEAD OPERATOR INTERFACE TERMINAL OCCUPANCY SENSOR PUSH BUTTON
PIV PNL PS PT PTT PVC RCPT RMC RTM SA SPD SS STP SV TYP UH UL UG UON UTP VFD WP XFMR	POST INDICATOR VALVE PANEL POWER SUPPLY POTENTIAL TRANSFORMER PUSH TO TEST POLYVINYL CHLORIDE RECEPTACLE RIGID METAL CONDUIT RUN TIME METER SURGE ARRESTOR SURGE PROTECTIVE DEVICE STAINLESS STEEL SHIELDED TWISTED PAIR SOLENOID VALVE TYPICAL UNIT HEATER UNDERWRITERS LABORATORIES UNDERGROUND UNLESS OTHERWISE NOTED UNSHIELDED TWISTED PAIR VARIABLE FREQUENCY DRIVE WEATHERPROOF TRANSFORMER

REFERENCE SYMBOLS	
	G1 GROUNDING ELECTRODE SYSTEM CONDUIT & WIRE TAG
	P1 POWER CONDUIT & WIRE TAG
	C1 CONTROL CONDUIT & WIRE TAG
	S1 SIGNAL CONDUIT & WIRE TAG
	T1 TELEPHONE CONDUIT & WIRE TAG
	R1 SPARE CONDUIT & WIRE TAG
	XX FAULT CURRENT TAG (AIC)
	X KEY NOTE
	P-01 MECHANICAL EQUIP. DESIGNATION
	PSL-101 INSTRUMENT DESIGNATION

REUSE OF DOCUMENTS		REGISTERED PROFESSIONAL ENGINEER 106163PE DIGITALLY SIGNED OREGON NOV 12, 2024 SPENCER ALLEN COVALL 2025-12-02 EXPIRES: JUN 30, 2027		VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING. 0" 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.		NO. DATE BY APPR REVISIONS 0 12.2.25 SAG SAG 100% ISSUED FOR BID		CENTURY WEST ENGINEERING SPOKANE OFFICE 11707 E. MONTGOMERY DRIVE SPOKANE VALLEY, WA 99206 509.838.3810 509.624.0355 FAX		DESIGNED BY: SAG DRAWN BY: JTR CHECKED BY: SAG SCALE: AS NOTED		MORROW COUNTY BARTHOLOMEW BLDG. STANDBY POWER SYSTEM ELECTRICAL SYMBOL AND LEGEND SHEET		DRAWING NO. E1.1 SHEET NO. 1 OF 9	
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SHEET NOTES

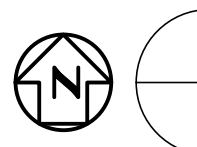
THE SCOPE OF THE PROJECT GENERALLY INCLUDES:

- REMOVAL OF THE EXISTING FACILITY SERVICE, INSTALLATION OF A REVISED SERVICE, SERVICE ENTRANCE RATED DISCONNECT, STANDBY POWER SYSTEM, FUEL SYSTEM, LOCAL POWER DISTRIBUTION, ALARM AUTODIALER, BUILDING FEEDER, CONCRETE PADS, EQUIPMENT RACK, AND ALL APPURTENANCES FOR A COMPLETE AND OPERATIONAL STANDBY POWER SYSTEM FOR THE BARTHOLOMEW BUILDING.
- COORDINATE ALL CUTOVERS WITH THE OWNER, UTILITY, AND ENGINEER. OUTAGES ARE LIMITED TO WEEKENDS OUTSIDE NORMAL BUSINESS HOURS FOR THE FACILITY.
- ALL EQUIPMENT SHALL BE COORDINATED, INSTALLED, AND PREPARED FOR CUTOVER TO LIMIT THE IMPACT ON OPERATIONS TO THE FACILITY.
- NOT ALL CONDUITS, RACEWAYS, OR CIRCUITS SHOWN FOR CLARITY.

KEY NOTES

- EXISTING PAD MOUNTED UTILITY TRANSFORMER (COURTHOUSE).
- EXISTING PAD MOUNTED UTILITY TRANSFORMER (BARTHOLOMEW BLDG.) AND METER. COORDINATE SERVICE MODIFICATION REQUIREMENTS WITH COLUMBIA BASIN CO-OP.
- SERVICE ENTRANCE RATED MAIN DISCONNECT.
- AUTOMATIC TRANSFER SWITCH.
- PROPANE GENERATOR.
- ELECTRICAL EQUIPMENT RACK.
- EQUIPMENT PAD. EXTEND 12" BEYOND FOOTPRINT ON ALL SIDES.
- EXISTING UTILITY POLE.
- EXISTING UTILITY JUNCTION ENCLOSURE.
- PROPANE TANK. 500 GALLON CAPACITY. MOUNT TANK ON MANUFACTURER RECOMMENDED PAD, BLOCKS, OR ALTERNATE APPROVED METHODS. SEISMICALLY ANCHOR PER LOCAL, STATE, AND NATIONAL CODES.
- GAS LINE SLEEVED THROUGH CONCRETE PAD AND ANCHORED ON 1" C CHANNEL STRUT, CLAMPS, AND HARDWARE ON PAD. INSTALL GAS LINE, SEDIMENT TRAP, REGULATOR, AND ALL OTHER FUELING APPURTENANCES FOR A COMPLETE AND OPERATIONAL FUEL SYSTEM. COORDINATE WITH PROPANE TANK SUPPLIER AND GENERATOR OEM FOR ALL REQUIRED EQUIPMENT. BOND FUEL LINE AND TANK TO GROUNDING ELECTRODE SYSTEM.
- EXISTING MDP IN ROOM 119.

- HAND DIG AND LOCATE EXISTING CONDUITS BETWEEN CURB AND TRANSFORMER PAD WITHIN GRASS AREA. AFTER INSTALLATION OF NEW CONDUIT AND CONDUCTORS, BACKFILL, COMPACT, AND SEED TO MATCH LAWN PRIOR CONDITIONS.
- AUTODIALER. COORDINATE CELLULAR SERVICE CARRIER AND SUBSCRIPTION WITH OWNER.
- PRESERVE AND PROTECT EXISTING TREES.
- INTERCEPT, PRESERVE, AND PROTECT (E) CONDUITS AND REMOVE (E) CONDUCTORS FROM (E) TRANSFORMER TO (E) MDP. INSTALL (N) CONDUITS AND CONDUCTORS FROM TRANSFORMER TO (N) PANEL "MAIN". INSTALL (N) CONDUITS AND EXTEND FROM (E) CONDUITS TO (N) ATS. PULL (N) CONDUCTORS IN (N) AND (E) CONDUITS TO (E) MDP IN ROOM 119. COORDINATE WITH THE UTILITY FOR DE-ENERGIZATION AND RE-ENERGIZATION OF THE TRANSFORMER PRIOR TO DEMO AND INSTALLATION.
- INTERCEPT (E) 1" PVC CONDUIT AND EXTEND TO AUTODIALER.
- DIRECTIONALLY DRILL UNDER PARKING LOT ACCESS ROAD OR CUT AND PATCH EXISTING ASPHALT TO MATCH EXISTING CONDITIONS FOR CONDUIT EXTENSION.
- PANEL "MAIN".
- EXISTING IT SERVER/PATCH PANEL IN ROOM 126. COORDINATE WITH IT DEPARTMENT AND PULL NEW WIRE INTO IT ROOM 126 FOR FULL LENGTH TO RACK PLUS 3' SLACK LOOP COILED FIVE TIMES, CABLE TIED, AND ACCESSIBLE FOR IT DEPARTMENT CONNECTION. COORDINATE AND PROVIDE WIRE TERMINATIONS FOR NETWORK CONNECTIONS.



ELECTRICAL SITE PLAN - 2014 RECORD DRAWING (REVISED)

1/16" = 1'-0"
0 8' 16' 32'

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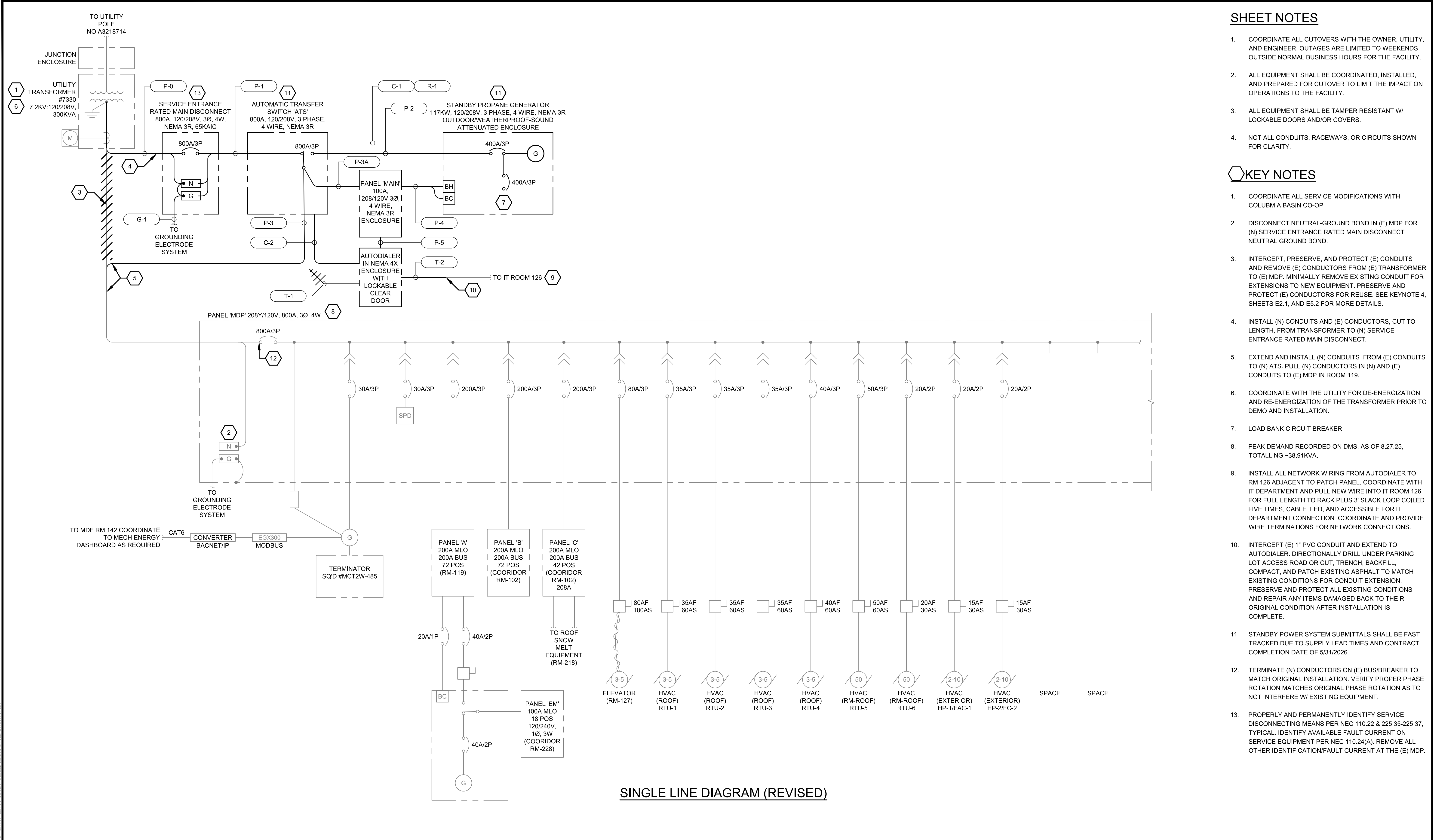
PROJECT NO:
12414.011.01

DESIGNED BY:
SJG
DRAWN BY:
JTR
CHECKED BY:
SJG
SCALE: AS NOTED

MORROW COUNTY
BARTHOLOMEW BLDG. STANDBY POWER SYSTEM

ELECTRICAL
SITE PLAN - 2014 RECORD DRAWING (REVISED)

DRAWING NO.
E2.1
SHEET NO.
2 OF 9



SHEET NOTES

- COORDINATE ALL CUTOVERS WITH THE OWNER, UTILITY, AND ENGINEER. OUTAGES ARE LIMITED TO WEEKENDS OUTSIDE NORMAL BUSINESS HOURS FOR THE FACILITY.
- ALL EQUIPMENT SHALL BE COORDINATED, INSTALLED, AND PREPARED FOR CUTOVER TO LIMIT THE IMPACT ON OPERATIONS TO THE FACILITY.
- ALL EQUIPMENT SHALL BE TAMPER RESISTANT W/ LOCKABLE DOORS AND/OR COVERS.
- NOT ALL CONDUITS, RACEWAYS, OR CIRCUITS SHOWN FOR CLARITY.

KEY NOTES

- COORDINATE ALL SERVICE MODIFICATIONS WITH COLUMBIA BASIN CO-OP.
- DISCONNECT NEUTRAL-GROUND BOND IN (E) MDP FOR (N) SERVICE ENTRANCE RATED MAIN DISCONNECT NEUTRAL GROUND BOND.
- INTERCEPT, PRESERVE, AND PROTECT (E) CONDUITS AND REMOVE (E) CONDUCTORS FROM (E) TRANSFORMER TO (E) MDP. MINIMALLY REMOVE EXISTING CONDUIT FOR EXTENSIONS TO NEW EQUIPMENT. PRESERVE AND PROTECT (E) CONDUCTORS FOR REUSE. SEE KEYNOTE 4, SHEETS E2.1, AND E5.2 FOR MORE DETAILS.
- INSTALL (N) CONDUITS AND (E) CONDUCTORS, CUT TO LENGTH, FROM TRANSFORMER TO (N) SERVICE ENTRANCE RATED MAIN DISCONNECT.
- EXTEND AND INSTALL (N) CONDUITS FROM (E) CONDUITS TO (N) ATS. PULL (N) CONDUCTORS IN (N) AND (E) CONDUITS TO (E) MDP IN ROOM 119.
- COORDINATE WITH THE UTILITY FOR DE-ENERGIZATION AND RE-ENERGIZATION OF THE TRANSFORMER PRIOR TO DEMO AND INSTALLATION.
- LOAD BANK CIRCUIT BREAKER.
- PEAK DEMAND RECORDED ON DMS, AS OF 8.27.25, TALLING ~38.91KVA.
- INSTALL ALL NETWORK WIRING FROM AUTODIALER TO RM 126 ADJACENT TO PATCH PANEL. COORDINATE WITH IT DEPARTMENT AND PULL NEW WIRE INTO IT ROOM 126 FOR FULL LENGTH TO RACK PLUS 3' SLACK LOOP COILED FIVE TIMES, CABLE TIED, AND ACCESSIBLE FOR IT DEPARTMENT CONNECTION. COORDINATE AND PROVIDE WIRE TERMINATIONS FOR NETWORK CONNECTIONS.
- INTERCEPT (E) 1" PVC CONDUIT AND EXTEND TO AUTODIALER. DIRECTIONALLY DRILL UNDER PARKING LOT ACCESS ROAD OR CUT, TRENCH, BACKFILL, COMPACT, AND PATCH EXISTING ASPHALT TO MATCH EXISTING CONDITIONS FOR CONDUIT EXTENSION. PRESERVE AND PROTECT ALL EXISTING CONDITIONS AND REPAIR ANY ITEMS DAMAGED BACK TO THEIR ORIGINAL CONDITION AFTER INSTALLATION IS COMPLETE.
- STANDBY POWER SYSTEM SUBMITTALS SHALL BE FAST TRACKED DUE TO SUPPLY LEAD TIMES AND CONTRACT COMPLETION DATE OF 5/31/2026.
- TERMINATE (N) CONDUCTORS ON (E) BUS/BREAKER TO MATCH ORIGINAL INSTALLATION. VERIFY PROPER PHASE ROTATION MATCHES ORIGINAL PHASE ROTATION AS TO NOT INTERFERE W/ EXISTING EQUIPMENT.
- PROPERLY AND PERMANENTLY IDENTIFY SERVICE DISCONNECTING MEANS PER NEC 110.22 & 225.35-225.37, TYPICAL. IDENTIFY AVAILABLE FAULT CURRENT ON SERVICE EQUIPMENT PER NEC 110.24(A). REMOVE ALL OTHER IDENTIFICATION/FAULT CURRENT AT THE (E) MDP.

SINGLE LINE DIAGRAM (REVISED)

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DATE:
DECEMBER 2025

PROJECT NO:
12414.011.01

DESIGNED BY:
SJG

DRAWN BY:
JTR

CHECKED BY:
SJG

SCALE: AS NOTED

MORROW COUNTY
BARTHOLOMEW BLDG. STANDBY POWER SYSTEM

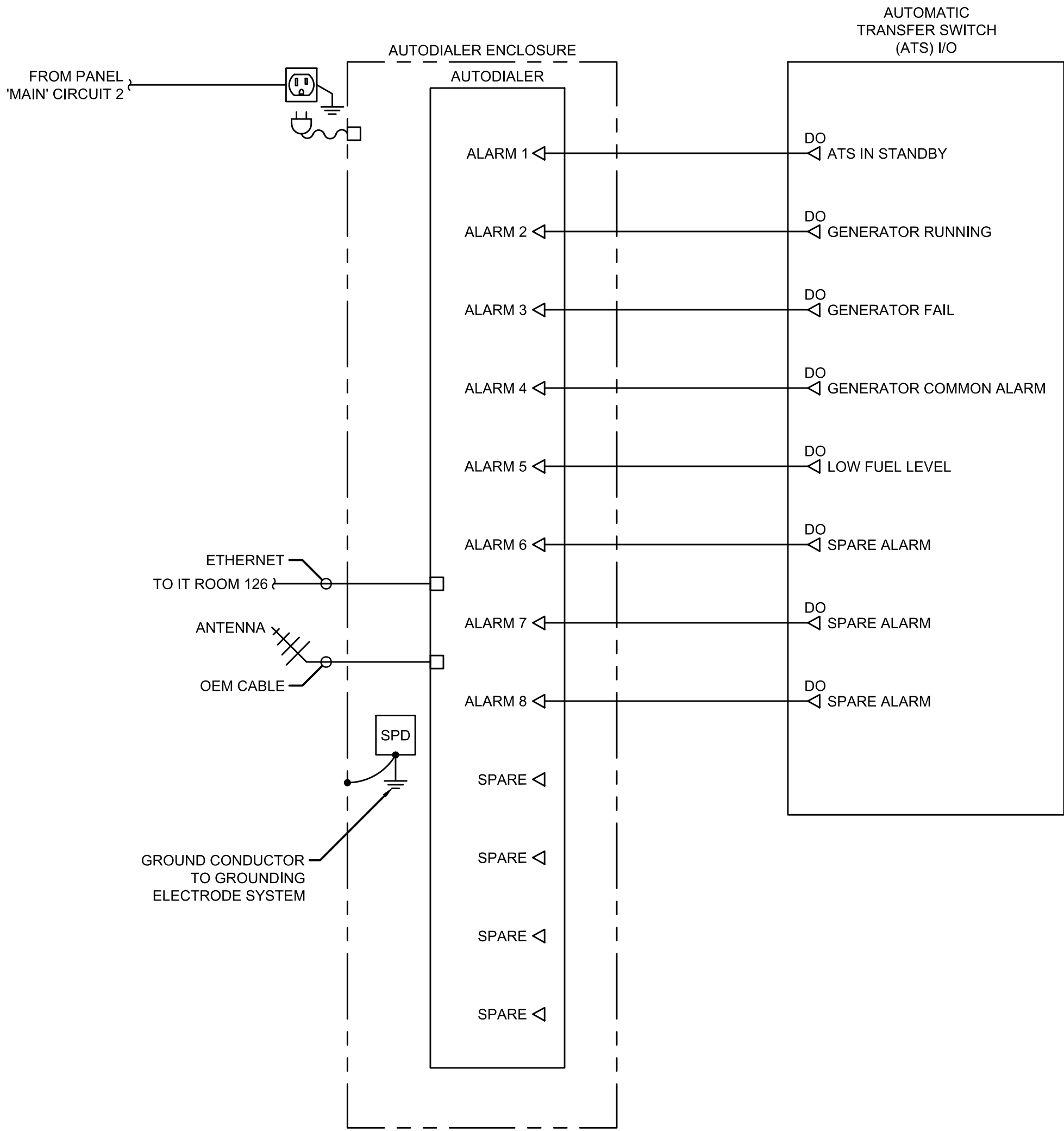
ELECTRICAL
SINGLE LINE DIAGRAM (REVISED)

DRAWING NO.

E3.1

SHEET NO.

3 OF 9



AUTODIALER WIRING DIAGRAM - TYPICAL

PANEL: MAIN										FEED: BOTTOM										
VOLT: 208Y/120V										MOUNTING: SURFACE										
BUS: 125 AMP										KAIC: 35										
MAIN: 100 AMP, 3P										NEMA: 3R										
	C K T	L O A D	N U M	K E Y	BREAKER			VA PER PHASE			BREAKER			K E Y	N U M	L O A D	C K T			
					A	M	P	P	O	L	E	P	O					A	M	P
DESCRIPTION																		DESCRIPTION		
GENERATOR BLOCK HEATER	1	1800		0	20	1	1850			1	20	0		50	2		AUTODIALER			
GENERATOR BATTERY CHARGER	3	1800		0	20	1		1800		3	30			0	4		SPARE			
SPARE	5	0			20	1			0		-	-			0	6		-		
SPARE	7	0			20	1	0				-	-			0	8		-		
SPARE	9	0			20	1		0		1	30			0	10		SPARE			
SPARE	11	0			20	1			0	2	20			0	12		SPARE			
SPARE	13	0			20	1	0				-	-			0	14		-		
SPARE	15	0			20	1		0		2	30			0	16		SPARE			
SPARE	17	0			20	1			0		-	-			0	18		-		
M: MOTOR LOAD							0	0	0	PANEL: NONE								LUGGED LOAD		
S: SUBFED LOAD							1850	1800	0	DOWNSTREAM SUBFED AND PANEL LOAD										
R: RECEPTACLE LOAD							1850	1800	0	TOTAL PANEL LOAD										
LOAD TYPE							DEMAND		CALCULATED	CONNECTED								TOTALS		
L- GENERAL LIGHTING LOAD							125	%	0	0	0									
R- RECEPTACLE LOAD (PER NEC ART. 220-13)							0	%	0	0	0			3.7				TOTAL CALCULATED KVA		
M- MOTOR LOADS							100	%	0	0	0			10.1				TOTAL CALCULATED AMPS		
K- KITCHEN RECEPTACLES	0 AT 0						0	%	0	0	0			0.0				25% OF LARGEST MOTOR AMPS		
O- ALL OTHER LOADS							100	%	3650	3650	10.1							TOTAL CALCULATED AMPS		

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DESIGNED BY:
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DRAWN BY:
JTR

CHECKED BY:
SJG

SCALE: AS NOTED

MORROW COUNTY
BARTHOLOMEW BLDG. STANDBY POWER SYSTEM

ELECTRICAL
SCHEDULES

DRAWING NO.
E5.1

SHEET NO.
5 OF 9

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CONDUIT AND WIRE SCHEDULE							
TAG	ROUTING		CONDUIT		WIRE		NOTES
	FROM	TO	QTY	SIZE (INCHES)	SIZE (AWG, KCMIL)	GND SIZE (AWG, KCMIL)	
GROUND							
G-1	MAIN DISCONNECT	GROUND ROD	1	1-1/2		2/0	SERVICE ENTRANCE RATED MAIN DISCONNECT. UTILIZE PVC-40 SLEEVE THROUGH CONCRETE FOR GROUND CONNECTION.
G-2	GROUND ROD	GROUND ROD	3	-		2/0	2/0 BARE COPPER GROUND RING.
G-3	GROUND ROD	CONCRETE PAD	2	-		4	BARE CU
G-4	GROUND ROD	FUEL PIPING/TANK	1	-		4	BARE CU
G-5	GROUND ROD	STANDBY GENERATOR	1	-		1/0	
G-6	GROUND ROD	AUTODIALER SPD	1	-		8	
POWER							
P-0	UTILITY TRANSFORMER	SERVICE ENTRANCE RATED MAIN DISCONNET	2	4	(4) 600	1/0	INTERCEPT EXISTING CONDUIT, EXTEND, AND ROUTE NEW SERVICE TO NEW SERVICE ENTRANCE RATED MAIN DISCONNECT. PRESERVE, PROTECT AND REUSE EXISTING [2] (4) 600 KCMIL AL CONDUCTORS CUT TO LENGTH FOR NEW SERVICE TO THE MAIN DISCONNECT. DISPOSE OF UNUSED EXISTING CONDUCTORS NOT ABLE TO BE REPURPOSED. COORDINATE W/ P-3.
P-1	SERVICE ENTRANCE RATED MAIN DISCONNET	AUTOMATIC TRANSFER SWITCH	2	4	(4) 600	1/0	AL CONDUCTORS
P-2	AUTOMATIC TRANSFER SWITCH	STANDBY GENERATOR	1	4	(4) 500	3	
P-3	AUTOMATIC TRANSFER SWITCH	PANEL "MDP"	2	4	(4) 600	1/0	INTERCEPT EXISTING CONDUIT AND EXTEND TO AUTOMATIC TRANSFER SWITCH LOCATION. INSTALL NEW AL CONDUCTORS IN NEW AND EXISTING CONDUIT. COORDINATE W/ P-0.
P-3A	AUTOMATIC TRANSFER SWITCH	PANEL "MAIN"	1	4	(4) 1	8	
P-4	PANEL "MAIN"	STANDBY GENERATOR	1	1-1/2	(4) 12	12	BLOCK HEATER/BATTERY CHARGER CIRCUITS
P-5	PANEL "MAIN"	AUTODIALER	1	3/4	(2) 12	12	COORDINATE AND INSTALL RECEPTACLE WITHIN AUTODIALER ENCLOSURE FOR CORD AND PLUG CONNECTION OR EXTERNAL LOCKABLE NEMA 4X (POLY) ENCLOSURE NIPPLED TO AUTODIALER FOR RECEPTACLE CIRCUIT.
CONTROL							
C-1	AUTOMATIC TRANSFER SWITCH	STANDBY GENERATOR	1	1-1/2	(10) 14	14	
C-2	AUTOMATIC TRANSFER SWITCH	AUTODIALER	1	1-1/2	(10) 14	14	
TELECOMMUNICATION							
T-1	AUTODIALER	AUTODIALER ANTENNA	1	-	OEM CABLE		MOUNT ANTENNA ADJACENT TO/ON AUTODIALER ENCLOSURE TO MAXIMIZE SIGNAL. COORDINATE WITH OEM FOR RECOMMENDED PLACEMENT.
T-2	AUTODIALER	IT ROOM 126	1	1	CAT 6		INTERCEPT EXISTING CONDUIT AND EXTEND TO AUTODIALER LOCATION. COORDINATE AND PULL NETWORK CABLE FROM AUTODIALER INTO IT ROOM 126 FOR IT DEPARTMENT CONNECTION.
SPARE							
R-1	AUTOMATIC TRANSFER SWITCH	STANDBY GENERATOR	1	1-1/2			SPARE CONDUIT W/ PULL STRING

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			DRAWN BY: JTR
			CHECKED BY: SJG
			SCALE: AS NOTED
DATE: DECEMBER 2025		PROJECT NO: 12414.011.01	

MORROW COUNTY
BARTHOLOMEW BLDG. STANDBY POWER SYSTEM

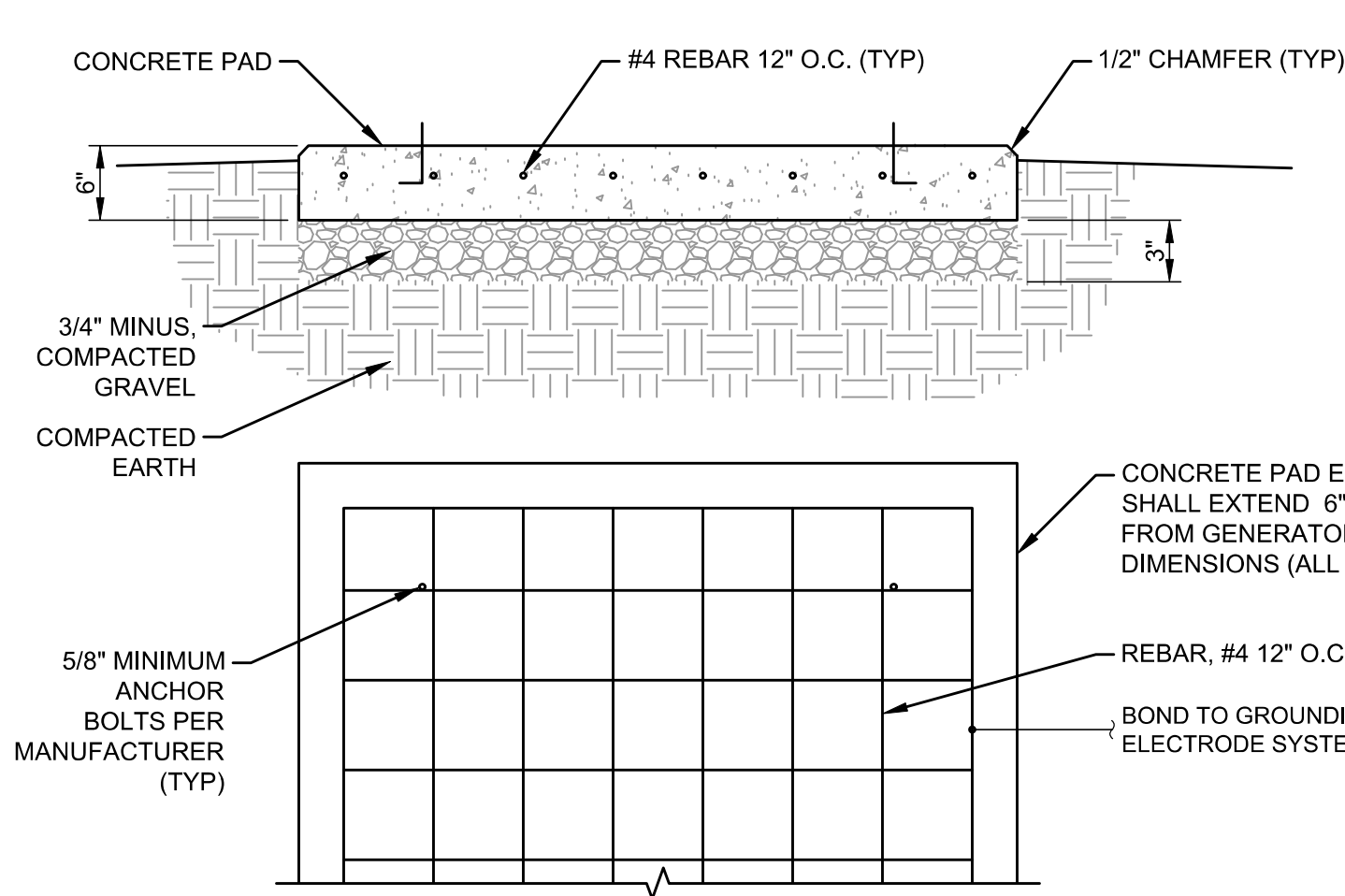
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DRAWING NO.

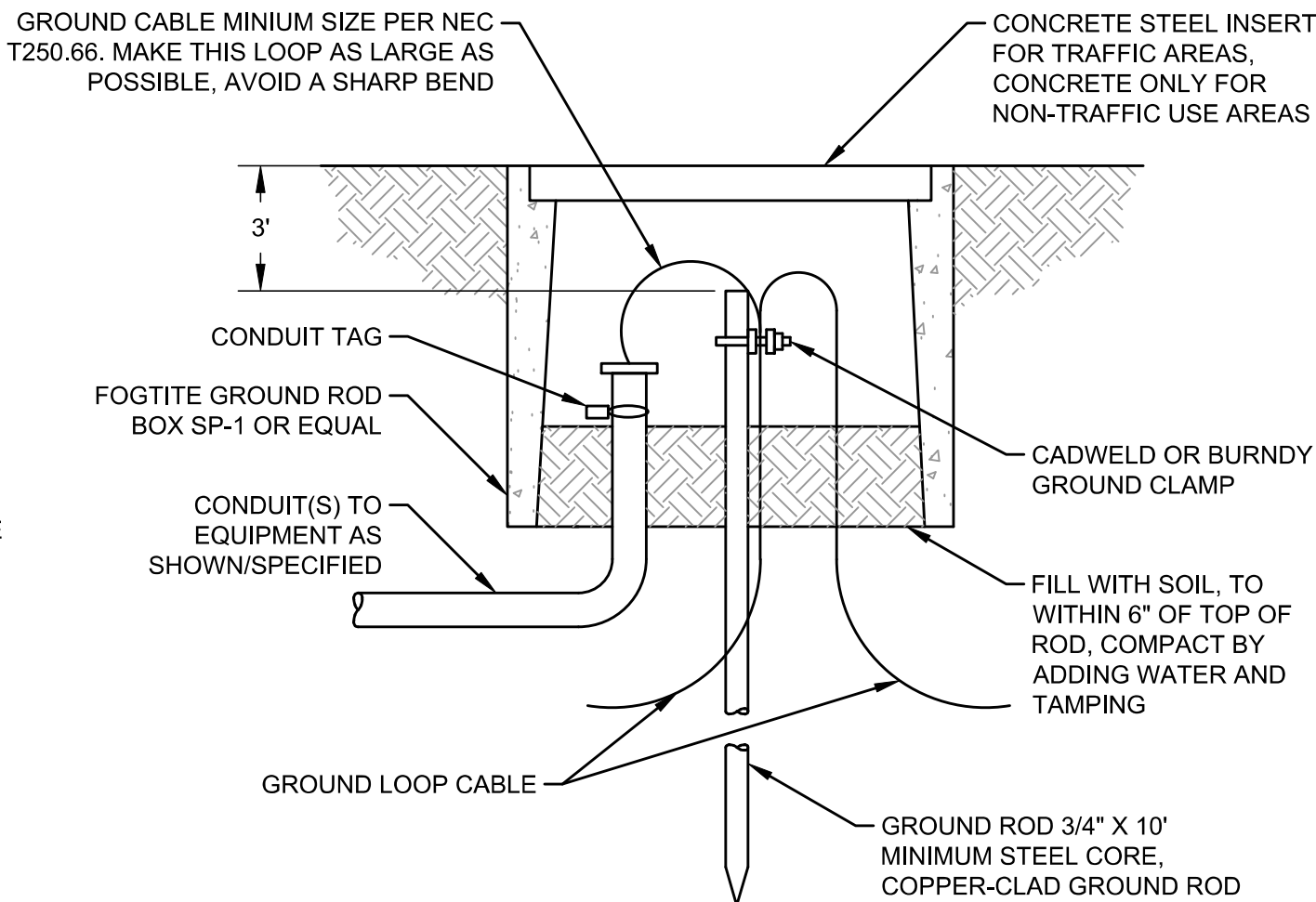
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SHEET NO.

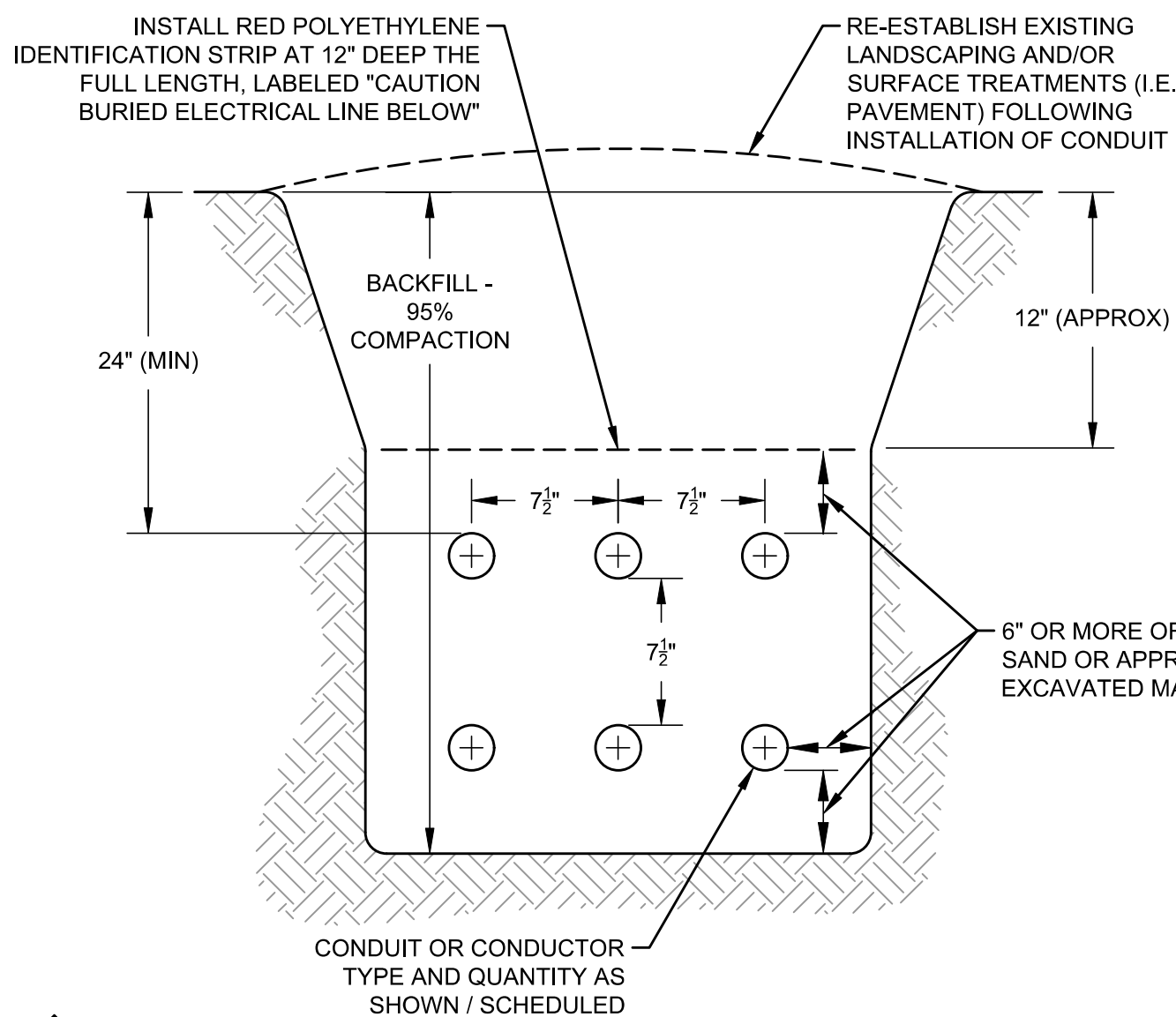
6 OF 9



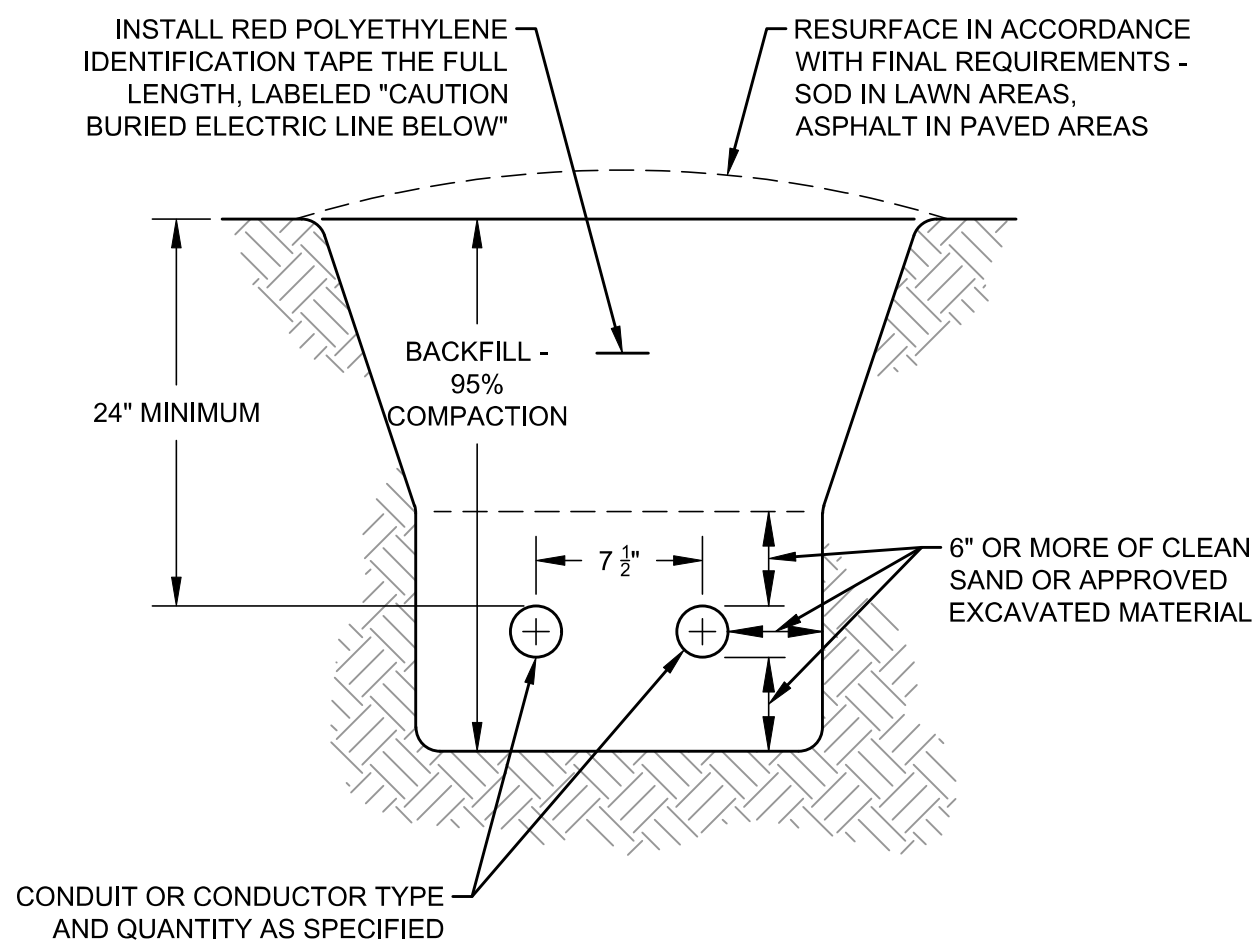
1
-
GENERATOR PAD DETAIL
NTS



A
-
GROUND WELL DETAIL - TYPICAL
NTS



B
-
ELECTRICAL CONDUIT TRENCH DETAIL - TYPICAL
NTS



C
-
TRENCH DETAIL - TYPICAL
NTS

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SJG

DRAWN BY:
JTR

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SCALE: AS NOTED

MORROW COUNTY
BARTHOLOMEW BLDG. STANDBY POWER SYSTEM

ELECTRICAL
DETAILS

DRAWING NO.

E6.1

SHEET NO.

7 OF 9



1 EXISTING EQUIPMENT (LOOKING SOUTH EAST)
E2.1 NTS



2 EXISTING EQUIPMENT (LOOKING NORTH WEST)
E2.1 NTS



3 EXISTING EQUIPMENT (LOOKING NORTH)
E2.1 NTS



4 EXISTING EQUIPMENT (LOOKING SOUTH)
E2.1 NTS

C:\Users\jw\Documents\Projects\12414 - Morrow County\12414.01 - Bartholomew Building Standby Power System.dwg, 12/11/2025, 1:02 PM

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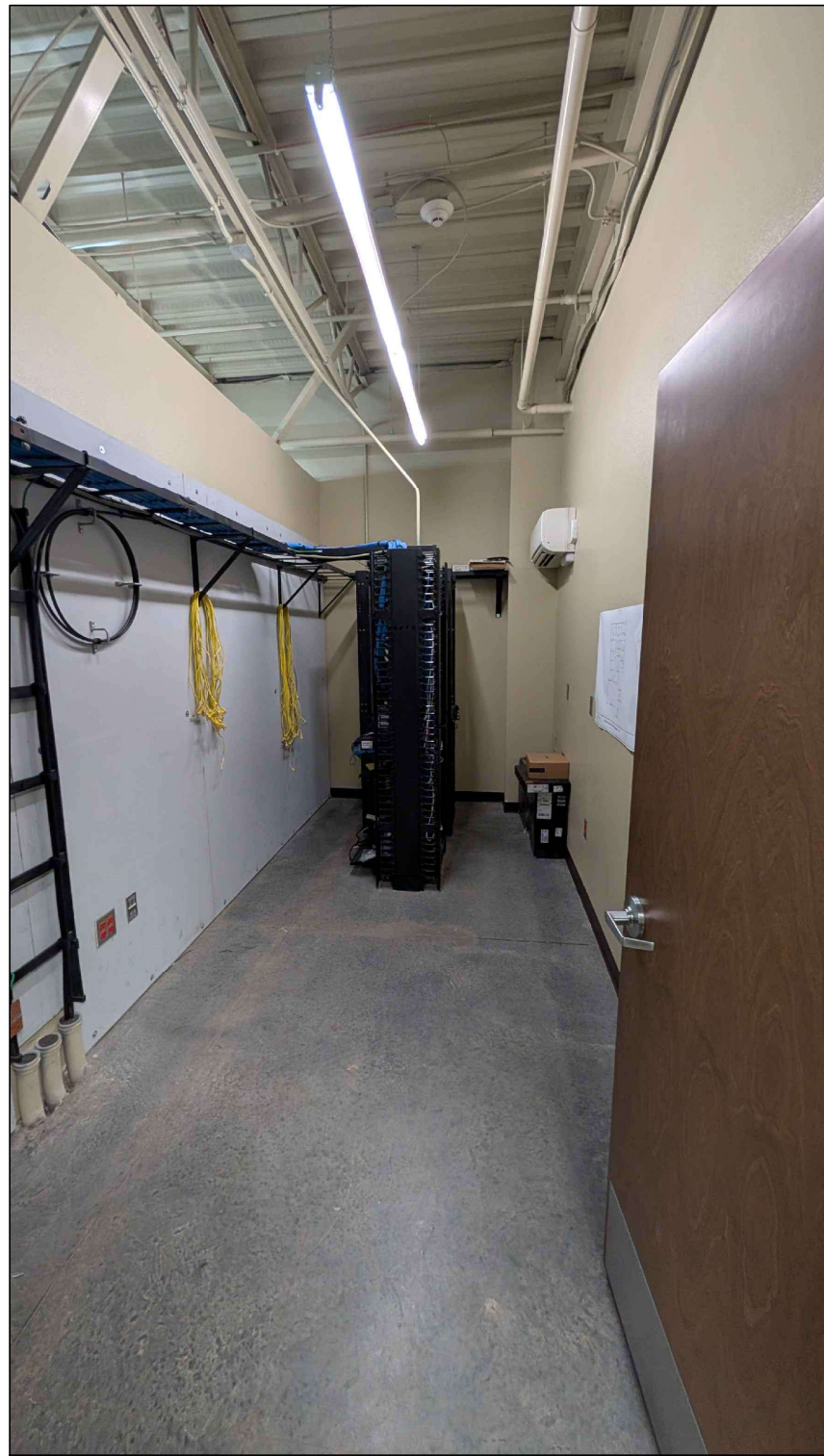
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		DRAWN BY: JTR		
		CHECKED BY: SJG	ELECTRICAL PHOTO DETAILS	SHEET NO. 8 OF 9
DATE: DECEMBER 2025	PROJECT NO: 12414.011.01	SCALE: AS NOTED		



1 EXISTING MDP (RM 119 - LOOKING SOUTH EAST)
E2.1 NTS



2 EXISTING MDP BREAKER LAYOUT (RM 119 - LOOKING EAST)
E2.1 NTS



3 EXISTING IT RACK (ROOM 126 - LOOKING EAST)
E2.1 NTS



4 EXISTING IT ROUTING (ROOM 126 - LOOKING NORTH EAST)
E2.1 NTS

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MORROW COUNTY
BARTHOLOMEW BLDG. STANDBY POWER SYSTEM

ELECTRICAL
PHOTO DETAILS

DRAWING NO.
E7.2
SHEET NO.
9 OF 9