1P	1 POLE (SIMILAR FOR 2P, 3P, 4P, ETC.)	INT J-BOX	INTERIOR JUNCTION BOX	XX-1 🛇	SPECIAL CONNECTIONS. THE EQUIPMENT IS INDIC NUMBER IN A CIRCLE. SEE THE MISCELLANEOUS
A AC	AMPERE ARMOR CLAD CABLING	KV KVA	KILOVOLT KILOVOLT-AMPERE		CONNECTION SCHEDULE FOR THE LOAD DESCRIP TYPE OF CONNECTION.
ADA	AMERICANS WITH DISABILITIES ACT	KW	KILOWATT		
λF	AMPERE FRAME		LENGTH		PANELBOARDS. PANELBOARD DOORS MAY BE SH
۹ FF	ABOVE FINISHED FLOOR	LITES	LIGHTS	LPN-102	INDICATE OPENING SIDE OF RECESSED PANELBOA
AFG	ABOVE FINISHED GRADE	LITES	LOW VOLTAGE		PANELBOARD IDENTIFICATION FOR DESIGNATION
AHJ	AUTHORITY HAVING JURISDICTION	MAX	MAXIMUM		CONDUIT SHOWN WITHOUT SLASH MARKS SHALL (
AHU	AIR HANDLING UNIT	MC			12 CONDUCTORS IN 3/4" CONDUIT UNLESS SPECIFI
AIR	AMPERE INTERRUPTING RATING	MCB	MAIN CIRCUIT BREAKER		EQUIPMENT REQUIRES A DIFFERENT SIZE.
AL	ALUMINUM	MECH	MECHANICAL		
AMP	AMPERE	MFR	MANUFACTURER	$\sim$	HOME RUN TO BRANCH CIRCUIT PANELBOARD. TH
ANSI	AMERICAN NATIONAL STANDARDS	MIN	MINIMUM	LPN-102	PANELBOARD DESIGNATION IS SHOWN ADJACENT
	INSTITUTE	MISC	MISCELLANEOUS	1,3,5	HOME RUN ARROW AS A NUMERATOR AND THE CI
ARCH	ARCHITECTURAL	MLO	MAIN LUGS ONLY	1,0,0	DESIGNATION IS SHOWN AS THE DENOMINATOR.
ASHRAE	AMERICAN SOCIETY OF HEATING,	MTD	MOUNTED		BREAKER SIZES (AMPS/NUMBER OF POLES) ARE SI
	REFRIGERATING, AIR-CONDITIONING	MTG	MOUNTING		PANELBOARD SCHEDULE WITH THE CORRESPOND
	ENGINEERS, INC.	N	NORTH		PANELBOARD AND CIRCUIT DESIGNATION. EXAMP
AWG	AMERICAN WIRE GAUGE	N/A	NOT APPLICABLE		RUN TO PANELBOARD LPN-102; CIRCUITS 1, 3, 5.
3D	BOARD	NEC	NATIONAL ELECTRICAL CODE		
2	CONDUIT	NEMA	NATIONAL ELECTRICAL		
CB			MANUFACTURER'S ASSOCIATION		
CKT		NFPA	NATIONAL FIRE PROTECTION		
	CIRCULAR MILS		AGENCY		
	CONNECTION	NTS	NOT TO SCALE		
CONT	CONTINUE, CONTINUOUS	OE	OVERHEAD ELECTRICAL		
CT	CURRENT TRANSFORMER	OFCI	OWNER FURNISHED, CONTRACTOR		
CU	COPPER	0-61	INSTALLED		
DEG	DEGREE	OFOI	OWNER FURNISHED, OWNER		
DEMO	DEMOLISH, DEMOLITION		INSTALLED		
DEPT	DEPARTMENT	OH	OVERHEAD		
		PH	PHASE		
DIM DIV	DIMENSION/DIMENSIONS DIVISION	PLD	PAD LOCK DEVICE		
DWG	DRAWING	PNL PP	PANEL POWER POLE		
E)	EXISTING	PVC	POWER FOLE POLYVINYL CHLORIDE		
E	EAST	PWR	POWER		
EA	EACH	QTY	QUANTITY		
EC	ELECTRICAL CONTRACTOR	RAD	RADIUS		
ELEC	ELECTRICAL	RCPT	RECEPTACLE		
EMT	ELECTRICAL METALLIC TUBING	REQ	REQUIREMENT		
ENG	ENGINEER	RM	ROOM		
EQMT	EQUIPMENT	RSC	RIGID STEEL CONDUIT		
EXT	EXTERIOR	S	SOUTH		
-C	FOOTCANDLE	SCHED	SCHEDULE		
-T	FEET/FOOT	SECT	SECTION		
ΞU	FUSE	SHT	SHEET		
UDS	FUSED SAFETY DISCONNECT	SP	SPARE		
	SWITCH	SPEC	SPECIFIED OR SPECIFICATION		
URN	FURNISHED	TYP	TYPICAL		
GALV	GALVANIZED	UE	UNDERGROUND ELECTRICAL		
GC	GENERAL CONTRACT(OR)	UG	UNDERGROUND		
GCS	GALVANIZED CARBON STEEL	UTIL	UTILITY		
GEC	GROUNDING ELECTRODE	V	VOLT, VOLTAGE		
	CONDUCTOR	VA	VOLT-AMPERES		
GFI	GROUND FAULT CIRCUIT	VAC	ALTERNATING CURRENT (AC)		
	INTERRUPTER		VOLTAGE		
GFP	GROUND FAULT PROTECTION	VEST	VESTIBULE		
GND	GROUND	W	WIDE/WEST		
GRS	GALVANIZED RIGID STEEL	W/	WITH		
	(CONDUIT)	W/O	WITHOUT		
4	HIGH/HEIGHT	WAC	WASHINGTON ADMINISTRATIVE		
ΗP	HORSEPOWER / HEAT PUMP		CODE		
HTG	HEATING	WP	WATERPROOF/ WEATHERPROOF		
HTR	HEATER	WSEC	WASHINGTON STATE ENERGY CODI	Ē	
IVAC	HEATING, VENTILATION, & AIR				
50	CONDITIONING	#	NUMBER		
BC	INTERNATIONAL BUILDING CODE	&	AND		
EC			FEET		
-0	ELECTROTECHNICAL COMMISSION	"	INCHES		
FC	INTERNATIONAL FIRE CODE	<	ANGLE		
	INCH/INCHES	@ 。	AT		
NFO NST			DEGREE		
1001	INSTALLED	Ø	PHASE		
INSUL	INSULATION, INSULATED	~			

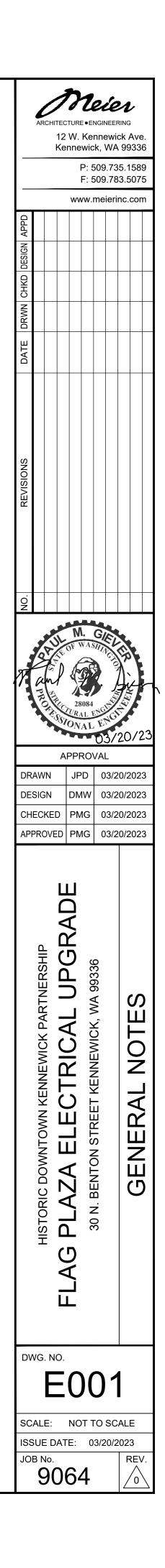
ELECTRICAL ABBREVIATIONS LIST

# ELECTRICAL SYMBOL NOTES

NS. THE EQUIPMENT IS INDICATED BY A SEE THE MISCELLANEOUS JLE FOR THE LOAD DESCRIPTION AND N.	1. 2.	COORDINATE LOCATIONS OF DEVICES WITH OWNER. CONTRACTOR SHALL INCREASE CONDUCTOR AND CORRESPONDING CONDUIT SIZE FOR VOLTAGE DROP WHERE NOMINAL LENGTH DROPS LOAD SIDE VOLTAGE BELOW VALUES OUTLINED IN NEC.
LBOARD DOORS MAY BE SHOWN TO	3.	THE CONTRACTOR IS RESPONSIBLE FOR FIELD ROUTING ALL CIRCUITS AND CONDUIT.
DE OF RECESSED PANELBOARDS. SEE ICATION FOR DESIGNATION CODES.	4.	CONTRACTOR SHALL COORDINATE ROUTING PER TYPICAL CONSTRUCTION PRACTICE IN THE MOST EFFICIENT WAY POSSIBLE WHILE ADHERING AS CLOSELY
HOUT SLASH MARKS SHALL CONTAIN 2 # 4" CONDUIT UNLESS SPECIFIC 5 A DIFFERENT SIZE.	5.	TO THE DRAWINGS AS POSSIBLE. IN THE EVENT A CONFLICT ARISES WHICH CANNOT BE RESOLVED IN THE FIELD, A REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE ENGINEER FOR
	6.	REVIEW; INCLUDE PROPOSED SOLUTION AND COST/TIME IMPACT IF POSSIBLE. DRAWINGS NOT BEARING THE STAMP OR SEAL AND SIGNATURE OF A
H CIRCUIT PANELBOARD. THE ATION IS SHOWN ADJACENT TO THE A NUMERATOR AND THE CIRCUIT	0.	REGISTERED PROFESSIONAL ENGINEER SHALL NOT BE USED FOR BIDDING OR CONSTRUCTION PURPOSES UNLESS EXPRESSLY APPROVED IN WRITING BY MEIER ARCHITECTURE ENGINEERING.
VN AS THE DENOMINATOR. CIRCUIT S/NUMBER OF POLES) ARE SHOWN IN THE JLE WITH THE CORRESPONDING	7.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL DRAWINGS AND SPECIFICATIONS BEING USED FOR BIDDING AND CONSTRUCTION
CUIT DESIGNATION. EXAMPLE: HOME		PURPOSES ARE OF THE LATEST REVISION AVAILABLE AND ALL ADDENDUM

GENERAL ELECTRICAL NOTES

DOCUMENTS HAVE BEEN INCORPORATED EITHER BY REVISION RELEASE OF DRAWINGS/SPECIFICATIONS OR ATTACHMENT OF SKETCHES OR OTHER ADDENDUM INFORMATION. 8. CONTRACTOR MUST ATTEND MANDATORY SITE WALK. DATE AND LOCATION FOR SITE WALK TO BE SET BY HISTORIC DOWNTOWN KENNEWICK ASSOCIATION (HDKP).



# DRAWING LIST

NO. DESCRIPTION E001 GENERAL NOTES E002 NOTES E101 SITE PLAN E102 ENLARGED PLAN AND DETAIL

E901 DIAGRAMS

**GENERAL ELECTRICAL** 

CODES, STANDARDS AND FEES

ALL LABOR AND MATERIALS SHALL COMPLY WITH LATEST RULES AND REGULATIONS OF THE FOLLOWING STANDARDS AND CODES:

WAC 296-46B WAC 51-50

- WASHINGTON STATE ENERGY CODE
- NATIONAL ELECTRICAL CODE
- APPLICABLE NFPA, OSHA, IFC AND IBC PUBLICATIONS APPLICABLE ANSI, UL, NECA AND NEMA STANDARDS

REQUIREMENTS OF WASHINGTON STATE DEPARTMENT OF HEALTH REQUIREMENTS OF LOCAL UTILITY

CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES REQUIRED BY ANY GOVERNMENT AGENCY HAVING JURISDICTION OVER THE WORK AND SHALL ARRANGE ALL INSPECTIONS REQUIRED BY THESE AGENCIES.

### INSTALLATION AND COORDINATION

ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. ALL LABOR, MATERIAL, TOOLS, PERMITS, ETC. REQUIRED FOR A COMPLETE INSTALLATION, SHALL BE FURNISHED BY THIS CONTRACTOR. COORDINATE WORK UNDER THIS DIVISION WITH ALL OTHER WORK UNDER CONTRACT, INCLUDING WORK PROVIDED BY THE OWNER'S FORCES.

THERE SHALL BE NO ADDITIONAL COST FOR CUTTING, PATCHING, WIRING, FINISHING, OR ANY OTHER WORK REQUIRED FOR RELOCATION OF WORK INSTALLED DUE TO INTERFERENCES BETWEEN WORK OF THE VARIOUS TRADES.

BY THE ACT OF SUBMITTING A BID THE CONTRACTOR SHALL BE DEEMED TO HAVE EXAMINED THE SITE AND ALL STRUCTURAL. ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND TO HAVE ACCEPTED EXISTING CONDITIONS AND INCLUDED ALLOWANCES FOR THEM IN THE BID. ANY CONTRADICTIONS, DISCREPANCIES OR DESIGN WORK WHICH DOES NOT MEET CODE OR WILL NOT FUNCTION AS INTENDED SHALL BE REPORTED TO THE ENGINEER IN WRITING PRIOR TO THE BID. IF CONTRACTOR DOES NOT REPORT ANY DISCREPANCIES THEN CONTRACTOR WILL BE HELD RESPONSIBLE FOR COMPLETE ELECTRICAL SYSTEM AND MAKE ANY REQUIRED CHANGES AT NO ADDITIONAL COST.

THE GENERAL ARRANGEMENT OF OUTLETS AND OTHER EQUIPMENT AS SHOWN ON THE PLANS IS DIAGRAMMATIC AND APPROXIMATELY CORRECT AS TO LOCATIONS. WHERE MINOR CHANGES ARE REQUIRED BECAUSE OF STRUCTURAL CONDITIONS OR FOR THE CONVENIENCE OF THE OWNER, SUCH CHANGES SHALL BE MADE AT THE CONTRACTORS EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE LOCATION OF ALL LIGHTING FIXTURES, OUTLETS, ETC. WITH RESPECT TO EQUIPMENT, DOORS, PARTITIONS, CABINETS, ETC

### DRAWINGS

THE PLANS ARE INTENDED TO ONLY SHOW GENERAL LOCATIONS AND OPERATION. SPECIFIC LAYOUT AND ELECTRICAL CONNECTIONS SHALL BE DETERMINED BY THE CONTRACTOR TO CONFORM WITH INTENT OF CONTRACT DOCUMENTS. ANY PROPOSED DEPARTURES FROM THESE PLANS AND SPECIFICATIONS SHALL BE REQUESTED IN WRITING FROM THE OWNER'S REPRESENTATIVE. THE REQUEST SHALL BE MADE AS SOON AS PRACTICABLE AND WITHIN 30 DAYS AFTER CONTRACT AWARD, STATING THE REASONS FOR THE PROPOSED DEPARTURES.

### LABELING

PROVIDE PHENOLIC NAMEPLATES IDENTIFYING TRANSFORMERS, PANELBOARDS, MOTOR CONTROLLERS, CONTROL STATIONS, SAFETY SWITCHES AND ALL ENCLOSURES THAT ARE PART OF THE ELECTRICAL SYSTEM. NAMEPLATES SHALL BE CONSTRUCTED OF 1/16-INCH THICK PLASTIC LAMINATED MATERIAL. NORMAL POWER: BLACK LETTERS ON WHITE FIELD. EMERGENCY POWER: WHITE LETTERS ON RED FIELD. ENGRAVE THROUGH COLORED SURFACE MATERIAL TO CONSTRASTING COLORED SUBLAYER. INDICATE IDENTIFIER, AMPACITY, VOLTAGE, PHASE, NO. OF PHASE & NEUTRAL WIRES, MAXIMUM SHORT CIRCUIT CURRENT RATING, AND SERVING POWER SOURCE.

PROVIDE TYPED CURRENT/UPDATED PANELBOARD DIRECTORIES & LOAD SCHEDULES LOCATED IN SELF-ADHESIVE CARD HOLDER ATTACHED TO INSIDE PANEL, SQUARE D 8003115901 OR APPROVED EQUAL.

PROVIDE TYPED RECEPTACLE LABELS BY ELECTRONIC LABEL MAKER WITH BLACK-ON-CLEAR ACID FREE TAPE, BROTHER PT-H110 AND TZEAF131 RESPECTIVELY OR APPROVED EQUAL. INDICATE POWER SOURCE PANEL NAME & CIRCUIT NUMBER(S).

### HOUSEKEEPING

THE CONTRACTOR SHALL CONTINUALLY REMOVE DEBRIS, CUTTINGS, CRATES, ETC. CREATED BY HIS WORK. SUCH SHALL BE DONE AT SUFFICIENT FREQUENCY TO ELIMINATE HAZARDS TO THE PUBLIC, OTHER WORKMEN AND OWNER'S EMPLOYEES. CONTRACTOR WILL REMOVE DEMOLISHED AND ABANDONED MATERIAL. IF DIRECTED BY OWNER, DESIGNATED MATERIALS WILL BE REMOVED TO A LOCATION IDENTIFIED BY THE OWNER.

### FIELD TESTS AND INSPECTIONS

AFTER ELECTRICAL SYSTEM IS COMPLETE AND ALL SYSTEMS HAVE BEEN APPROPRIATELY CHECKED, CALIBRATED AND ADJUSTED, THEN CONTRACTOR SHALL INFORM THE OWNER FOR FINAL INSPECTION AND OPERATIONAL CHECK OUT. A WRITTEN REPORT OF CONDITIONS, REQUIRED CHANGES, ETC. WILL FOLLOW THE INSPECTION AND CONTRACTOR WILL MAKE CHANGES AS NECESSARY.

THE CONTRACTOR SHALL SHOW BY DEMONSTRATION IN SERVICE THAT ALL CIRCUITS, FIXTURES AND EQUIPMENT ARE IN GOOD OPERATING CONDITION.

TESTS SHALL BE SUCH THAT EACH PIECE OF CONTROL EQUIPMENT WILL FUNCTION NOT LESS THAN FIVE TIMES.

ALL DEFECTIVE MATERIAL AND WORKMANSHIP DISCLOSED AS THE RESULT OF THE TESTS GIVEN HEREIN SHALL BE CORRECTED AT NO COST TO THE OWNER.

### **OPERATION AND MAINTENANCE MANUAL**

PROVIDE OPERATION AND MAINTENANCE MANUALS FOR TRAINING OF OWNER'S REPRESENTATIVE IN OPERATION AND MAINTENANCE OF SYSTEMS AND RELATED EQUIPMENT. PREPARE A SEPARATE CHAPTER FOR INSTRUCTION OF EACH CLASS OF EQUIPMENT OR SYSTEM. CONTRACTOR SHALL FURNISH (1) FULL SIZE COPY OF AS BUILTS.

### GUARANTEE

ALL WORK AND EQUIPMENT SHALL BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE. ANY DEFECTS ARISING WITHIN THE 1-YEAR GUARANTEE PERIOD SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.

### **BASIC MATERIALS AND METHODS**

### PANELBOARDS

MANUFACTURER, STYLE, ETC. AS INDICATED ON PLANS. COMPLETE WITH TYPEWRITTEN DIRECTORY & LOAD SCHEDULE, CIRCUIT BREAKERS (MULTIPLE-POLE INTERNAL TRIP), DEAD FRONT, LOCKING DOORS, UL LISTING, ETC.

### **RACEWAY, FITTINGS, BOXES, AND SUPPORTS**

### GENERAL

THIS SECTION SPECIFIES ALL RACEWAYS, CONDUITS, BOXES, FITTINGS, AND SUPPORTS FOR THIS INSTALLATION, THE LISTING OF PARTICULAR EQUIPMENT AND MATERIALS SHALL NOT BE CONSTRUED AS BEING ALL THE MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THE WORK. MATERIALS NOT SPECIFICALLY CALLED OUT, BUT REQUIRED FOR A COMPLETE INSTALLATION, SHALL BE SUPPLIED BY THE CONTRACTOR.

### CONDUIT

ELECTRICAL METALLIC TUBING (EMT) SHALL BE THE SAME INSIDE DIAMETER AS RIGID STEEL CONDUIT, MINIMUM SIZE 3/4 INCH. ALL CONDUIT SHALL BE GALVANIZED AND EACH LENGTH SHALL BE UL LABELED. COUPLINGS AND CONNECTORS SHALL BE GLAND COMPRESSION TYPE PRESSURE CAST OR SET SCREW COUPLING: APPLETON OR EQUAL. PROVIDE PRE-INSULATED BUSHINGS.

# BOXES

ALL BOXES.

PULL BOXES AND JUNCTION BOXES SHALL BE INSTALLED FOR PULLING CABLE WHERE REQUIRED BY THE DRAWINGS OR TO MEET REQUIREMENTS OF THE NEC. PULL BOXES USED FOR MULTIPLE CONDUIT RUNS SHALL NOT COMBINE CIRCUITS FED FROM DIFFERENT MCCS, SWITCHBOARDS, PANELBOARDS OR SWITCHGEAR.

FLUSH-FLOOR OUTLET BOXES SHALL BE PRESSED STEEL, 2-GANG AND FULLY ADJUSTABLE. BOXES SHALL BE SET PLUMB AND INSTALLED SUCH THAT COVER PLATE SEATS NEATLY AND FLUSH INTO FINISH FLOOR APPLICATION. BOXES TO BE EQUAL TO WIREMOLD RESOURCE RFB SERIES, NO. RFB2 WITH ALL NECESSARY AUXILIARIES.

RACEWAYS SHALL BE RUN CONCEALED IN OFFICE AND FINISHED AREAS. WHERE CONDITIONS DICTATE, SURFACE RACEWAY SHALL BE EMT RUN PARALLEL TO CEILING, AND VERTICAL RUNS SHALL BE PERPENDICULAR TO THE FLOOR. SUPPORT AS REQUIRED. COMPRESSION TYPE FITTINGS SHALL BE USED WITH EMT.

ALL REQUIRED PULL, JUNCTION, AND/OR SPLICE BOXES SHALL BE FURNISHED AND INSTALLED WHETHER INDICATED OR NOT.

# CONDUCTORS

GROUND WIRES SHALL BE BARE OR INSULATED COPPER CONDUCTOR CLASS B STRANDING.

MINIMUM SIZE OF ALL 600 VOLT POWER WIRING TO BE NO. 12 UNLESS OTHERWISE NOTED. CONTROL WIRING FOR HVAC UNITS SHALL BE BY THE MECHANICAL CONTRACTOR.

METAL CLAD CABLE MAY BE USED AS ALLOWED BY THE NEC.

ALL POWER CONDUCTORS SHALL BE INSTALLED CONTINUOUS WITH NO SPLICES. PULL BOXES SHALL BE USED TO KEEP PULLING TENSION WITHIN ALLOWABLE LIMITS SPECIFIED BY MANUFACTURERS. USE WIRE-PULLING COMPOUND FOR INSTALLING CONDUCTORS IN CONDUIT TO LIMIT THE TENSION. PRIOR TO INSTALLING CONDUCTORS, ALL RACEWAYS SHALL BE COMPLETE AND PROTECTED FROM WEATHER. CONDUIT RUNS SHALL BE CLEANED AND SWABBED. DAMAGED CONDUCTOR INSULATION IS REQUIRED TO BE REPLACED.

AT LEAST 6 INCHES OF SLACK CONDUCTOR SHALL BE LEFT AT EACH OUTLET OR JUNCTION BOX AND 9 INCHES OF CONDUCTOR AT EACH UNCONNECTED OUTLET. TAPE FREE ENDS OF UNUSED CONDUCTORS AND COIL NEATLY IN OUTLET BOX.

### RACEWAY, FITTINGS, BOXES, AND SUPPORTS (CONT)

FLEXIBLE METALLIC TUBING SHALL BE FORMED FROM SPIRAL WOUND GALVANIZED STEEL STRIP WITH SUCCESSIVE CONVOLUTIONS SECURELY INTERLOCKED AND EACH LENGTH MARKED WITH THE UL LABEL. MINIMUM SIZE SHALL BE 3/4 INCH. CONNECTIONS TO BOXES AND EMT SHALL BE MADE WITH STANDARD COUPLINGS APPROVED FOR THE APPLICATION: OZ GEDNEY OR EQUAL.

OUTLET, JUNCTION AND DEVICE BOXES INSTALLED CONCEALED INDOORS SHALL BE STANDARD 14-GAUGE GALVANIZED PRESSED STEEL. ALL UNUSED KNOCKOUTS SHALL BE LEFT SEALED. MINIMUM BOX SIZE SHALL BE 4 INCHES SQUARE. BOXES INSTALLED WHERE FINAL FINISH IS TO BE PLASTER OR DRYWALL SHALL HAVE A PLASTER RING. COVERS TO BE INSTALLED ON

BOXES SHALL ACCOMMODATE THE DEVICES TO BE INSTALLED AND SHALL BE SIZED AS REQUIRED BY APPLICABLE CODES FOR NUMBER AND SIZE OF CONDUITS AND CONDUCTORS ENTERING AND LEAVING.

### INSTALLATION

INTERIOR CONDUITS TO BE EMT OR FLEXIBLE METALLIC CONDUIT AS ALLOWED BY THE NEC. EXTERIOR UNDERGROUND CONDUITS TO BE RIGID PVC OR PVC-COATED RIGID METALLIC CONDUIT.

SEAL ALL BUILDING PENETRATIONS WITH SILICONE SEALANT. WHERE CONDUITS PENETRATE A FIRE RATED WALL, FLOOR OR CEILING, THE OPENING AROUND THE CONDUIT SHALL BE SEALED WITH CAULK CP 25 OR PUTTY 303 AS MANUFACTURED BY 3M, OR EQUAL. THE INSTALLATION SHALL CONFORM TO A UL LISTED DETAIL, PER MANUFACTURER'S INSTRUCTION.

### WIRE, CABLE, AND CONNECTORS

CONDUCTORS AND CABLES SHALL BE IDENTIFIED ON THE OVERALL JACKET AS TO THE MANUFACTURER'S NAME, CONDUCTOR SIZE, NUMBER OF CONDUCTORS, TYPE OF INSULATION, TYPE OF JACKET, AND VOLTAGE RATING. INFORMATION SHALL BE PRINTED EVERY THREE FEET.

FOR SIZES NO. 12 THROUGH NO. 4 CONDUCTOR INSULATION SHALL BE COLORED THE ENTIRE LENGTH; ENDS OF THE CONDUCTORS MARKED WITH COLORED TAPE IS NOT ACCEPTABLE. FOR SIZES ABOVE NO. 4 CONDUCTOR ENDS MAY BE MARKED WITH COLORED TAPE. TYPE-MC CABLE MAY BE USED WHERE PERMITTED BY CODE.

ALL 600-VOLT SINGLE CONDUCTORS, NO. 4 AND SMALLER, SHALL BE COPPER TYPE THHN/THWN, DUAL RATED, CLASS B STRANDING, PVC INSULATION WITH NYLON JACKET RATED AT 75 DEGREES C IN WET LOCATIONS, 90 DEGREES C IN DRY LOCATIONS UNLESS NOTED OTHERWISE. CONDUCTOR SIZES NO. 10 OR NO. 12 MAY BE SOLID OR STRANDED.

UNLESS NOTED OTHERWISE, EQUIPMENT WITH CIRCUIT AND PANEL IDENTIFICATION ARE 3 NO.12-3/4" CONDUIT.

### INSTALLATION

### WIRING DEVICES

### PRODUCTS

WIRING DEVICES SHALL BE UL LABELED FOR THE CURRENT, VOLTAGE, AND FREQUENCY SPECIFIED AND SHALL CONTAIN PROVISIONS FOR BACK WIRING AND SIDE WIRING WITH CAPTIVE BINDING SCREWS.

NON-BACKED UP DEVICES SHALL BE WHITE.

ALL DEVICES SHALL BE MOUNTED IN BOXES OF SHEET STEEL CONSTRUCTION, APPLETON TYPE OB/SB OR APPROVED EQUAL

SNAP OR ARROWLINK CONNECT STYLE RECEPTACLES ARE ACCEPTABLE.

## RECEPTACLES AND PLUGS

ALL RECEPTACLES SHALL BE GROUNDING TYPE, NEMA 5-20R, AND HEAVY DUTY INDUSTRIAL TYPE UNLESS NOTED OTHERWISE

STANDARD RECEPTACLES EQUAL TO EATON AH5362 SERIES.

TAMPER RESISTANT RECEPTACLES EQUAL TO EATON AHTR5362 SERIES.

GROUND FAULT RECEPTACLES SHALL BE SELF TEST TYPE AND TAMPER RESISTANT, EQUAL TO EATON TRSGF20 SERIES.

WEATHER RESISTANT GROUND FAULT RECEPTACLES SHALL BE SELF TEST TYPE AND TAMPER RESISTANT, EQUAL TO EATON TWRSGF20 SERIES.

# WIRING DEVICES (CONT)

### DEVICE PLATES

DEVICE PLATES SHALL BE AS FOLLOWS:

NECESSARY AUXILIARIES.

### INSTALLATION

AND BE FLUSH MOUNTED.

CODES.

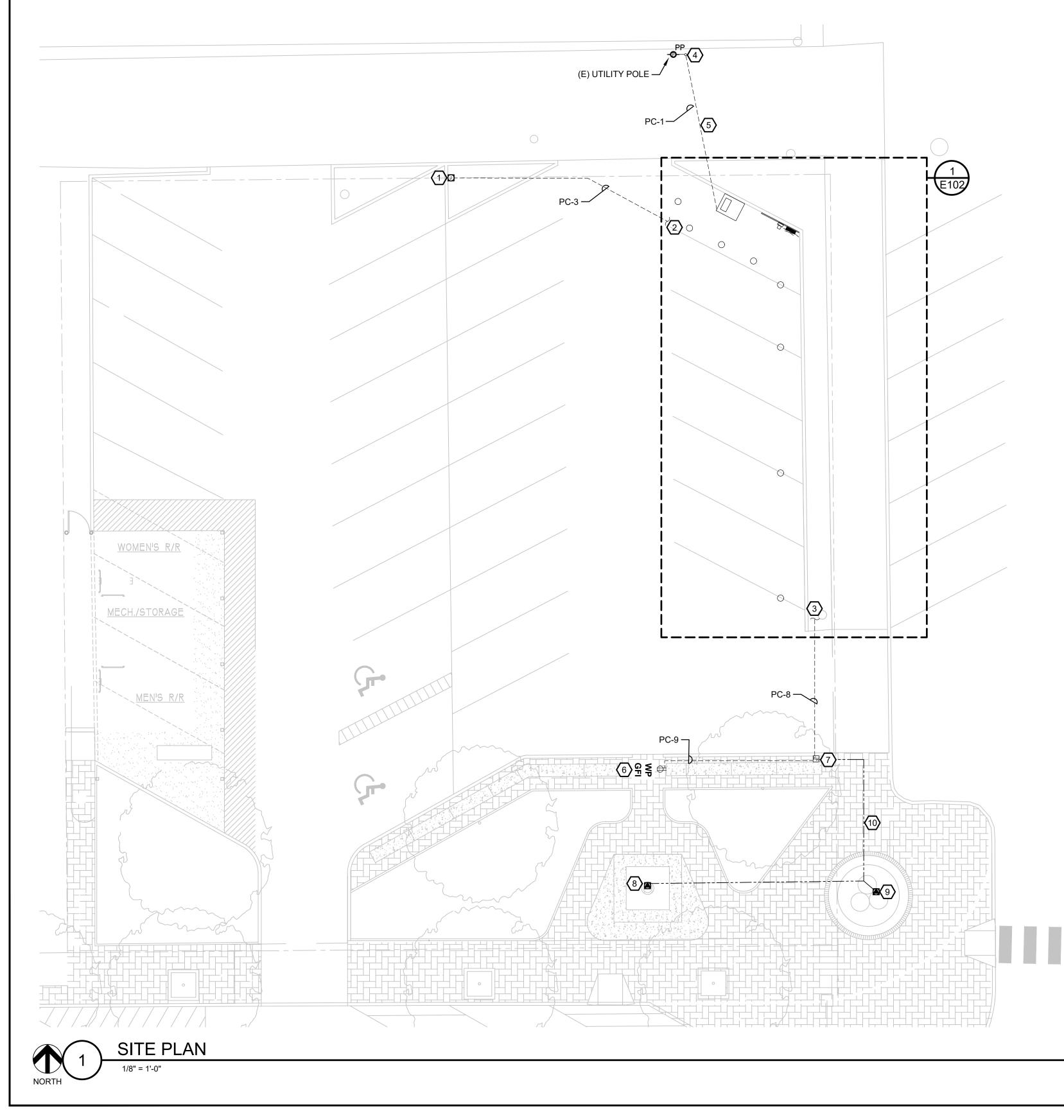
<u>GROUNDING</u>

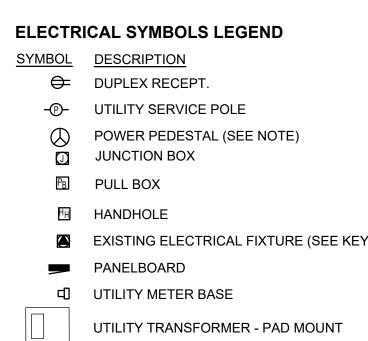
INSTALLATION

GROUND BUS. CONDUITS SHALL BE BONDED USING APPROVED GROUNDING BUSHING.

- FINISHED AREA WITH CONCEALED CONSTRUCTION THERMOPLASTIC NYLON COLOR MATCHING WIRING DEVICE.
- EXPOSED BOXES CONNECTED TO EMT RACEWAY OR STAMPED STEEL DEVICE BOXES COVERS TO BE GALVANIZED, STAMPED STEEL, 1/2-INCH RAISED RACO 800 SERIES.
- EXPOSED DEVICE BOXES CONNECTED TO RIGID STEEL CONDUIT GALVANIZED MALLEABLE IRON
- OUTDOORS OR BELOW GRADE CAST ALUMINUM.
- FLOOR MOUNTED DEVICES WIREMOLD RESOURCE RFB SERIES, NO. S39CCTCAL FLANGELESS COVER ASSEMBLY WITH ALL
- PROVIDE EXTRA-DUTY DIE-CAST IN-USE WEATHERPROOF LOCKABLE COVERS FOR EXTERIOR RECEPTACLES, 4-INCH DEPTH MINIMUM, EQUAL TO INTERMATIC WP1250MVXD (SINGLE-GANG) AND WP1250MXD (DOUBLE-GANG).
- UNLESS OTHERWISE INDICATED, WALL-MOUNTED RECEPTACLES AND SWITCHES SHALL BE INSTALLED IN SHEET METAL BOXES
- PROVIDE GFCI, WEATHER RATED, AND/OR TAMPER RESISTANT OUTLETS WHERE REQUIRED BY LOCALLY ADOPTED ELECTRICAL
- ALL POWER CIRCUITS SHALL HAVE A COPPER GROUND CONDUCTOR ROUTED WITH CURRENT CARRYING CONDUCTORS AND CONDUITS MAY BE USED FOR REDUNDANT GROUNDING PATH. ALL BOXES, CABINETS, AND EQUIPMENT SHALL BE BONDED TO THE GROUND CONDUCTOR. ALL METAL RACEWAYS SHALL BE BONDED TO PROVIDE A CONTINUOUS GROUND PATH BACK TO

	Meier									
ARCHITECTURE • ENGINEERING 12 W. Kennewick Ave. Kennewick, WA 99336										
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PRIMAR	RY CONDU	ICTORS			
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SECON	DARY / SE	RVICE	CONDUC	ΓOR(S)	
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METER	(S)				
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	3.	OBSTACLES NO ATTEMF UTILITIES A	PT HAS E		DE TO IN	DICATE EXISTING BURIED					5.1589 3.5075
	4.	PRIOR TO E	BEGINNII Y EXIST	NG WORK ING BURI	ÉD UTILI	DE LOCATION SERVICES TIES INCLUDING BUT NOT DMMUNICATION, AND					3.5075 nc.com
	5.	SEWER. ALL ACCES	SIBLE E	LECTRICA	AL DEVIC	ES AND EQUIPMENT	APPD				
EE KEYNOTE)		SHALL BE L	OCKABI	LE AND VA	ANDAL-F	ESISTANT.	DESIGN				
	<u>KEY</u>	<u>'NOTES (</u> #					CHKD				
INT	1.	JUNCTION I	BOX FOR	R THE STA	AGE. GF		DRWN 0				
	2. 3.	PANEL A CI	RCUIT 2	7 IN PC-8	CONTIN	UES ON 1/E102. UES ON 1/E102.					
	4.	NEW UNDE	RGROUI	ND PRIMA	RY SER	GOVERHEAD SERVICE TO VICE CONDUIT PV-1. IB UP LOCATION.	DATE				
	5. 6.	PROPOSED	ROUTIN	NG OF UT	ILITY PR	IMARY CONDUIT. DUTLET IN LOCKABLE					
	7.	ENCLOSUR	E TO UN	DERSIDE	OF CON	ICRETE BENCH AND REPLACE WITH					
						CONNECT THE EXISTING ONDUITS TO NEW					
	8.		LAG PO	LE LUMIN		TH LED OF EQUIVALENT	SN				
		CIRCUIT #4				EFEED FROM PANEL A	VISIONS				
	9. 10.	A CIRCUIT #	<b>#2</b> .			JMP MOTOR FROM PANEL	RE				
	10.		ATIC AN	D DOES N	OT REF	LECT ACTUAL ROUTE.					
				L #0 & #1	, NDOVE						
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		X	Х	X	X	-	CH	ECKED	PMG	03/2	0/2023
		X	Х			-	APF	ROVED	PMG	03/2	0/2023
			Х	X X	x	-					
		X	Х	X	X	-		L			
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					2	CALL 811 BUSINESS DAYS		UE DAT	E: 0	3/20/2	023 REV.

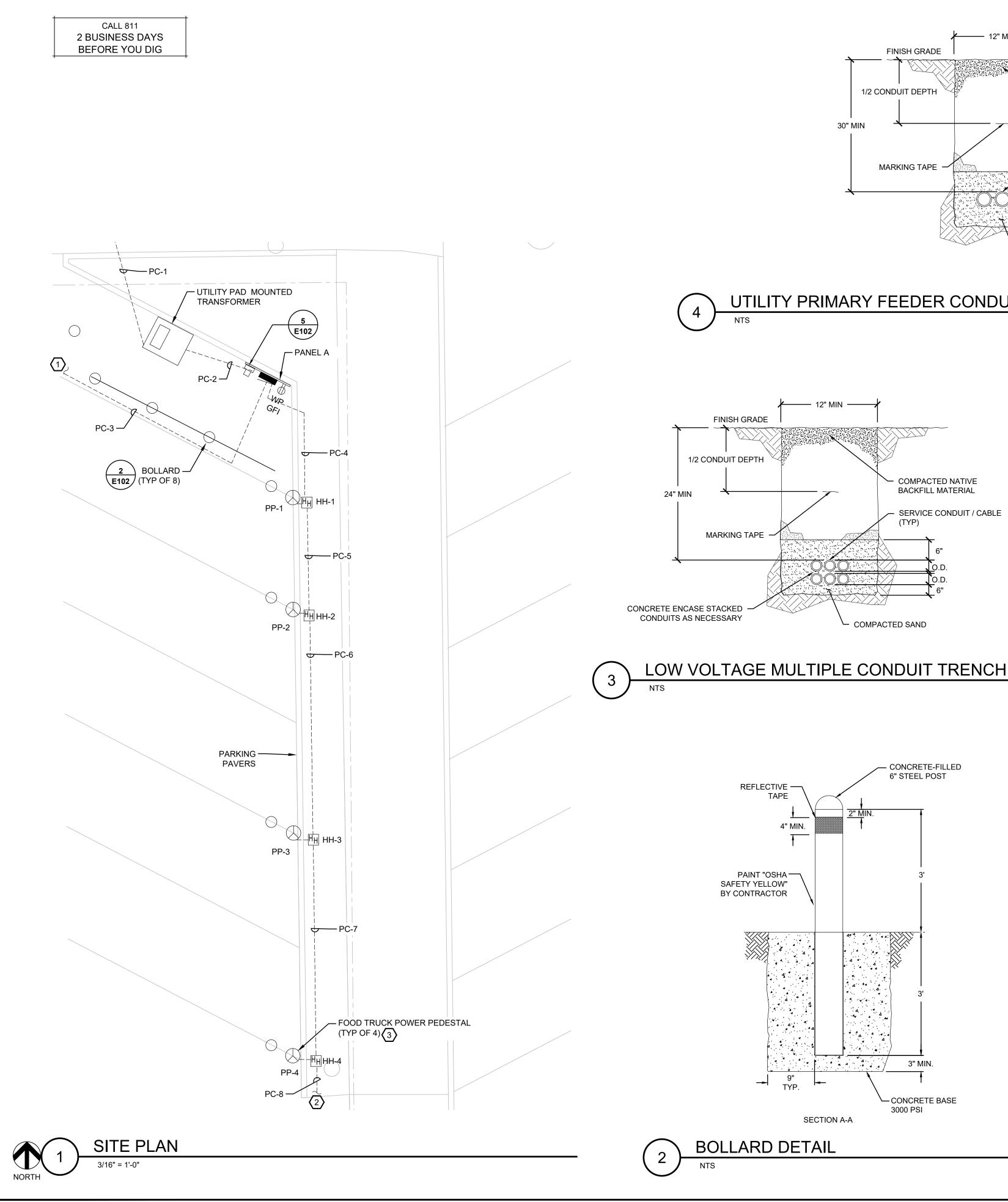
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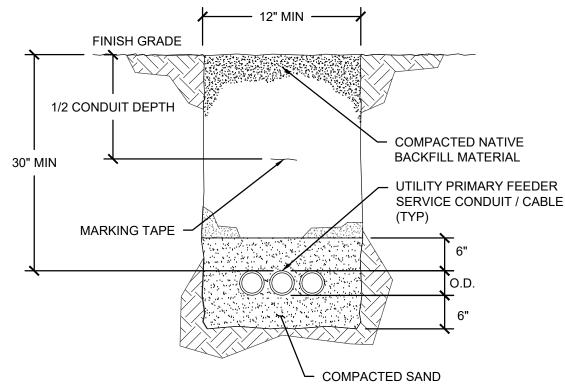
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# UTILITY PRIMARY FEEDER CONDUIT TRENCH DETAIL (MEDIUM VOLTAGE)

# LOW VOLTAGE MULTIPLE CONDUIT TRENCH DETAIL

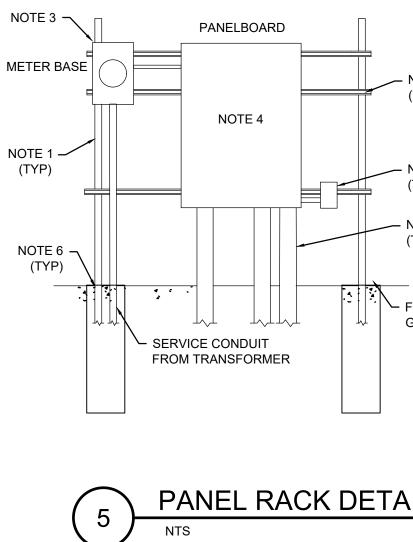
			SITE CON	DUIT SCHEDULE		
ID	QTY	SIZE (IN)	FROM	ТО	CONTENTS	NOTES
PC-1	2	4	UTILITY OVERHEAD SERVICE	PAD MOUNT UTILITY TRANSFORMER	BY UTILITY	
PC-2	2	2	PAD MOUNT UTILITY TRANSFORMER	METER BASE	400A4	
PC-3	2	1/2	PANEL A	STAGE JUNCTION BOX	20A2G, SPARE	
PC-4	7,4	1/2, 1-1/4	PANEL A	HH-1	3 [20A2G], 4 [30A2G, 50A3G]	1
PC-5	6,3	1/2, 1-1/4	HH-1	HH-2	3 [20A2G], 3 [30A2G, 50A3G]	1
PC-6	5,2	1/2, 1-1/4	HH-2	HH-3	3 [20A2G], 2 [30A2G, 50A3G]	1
PC-7	4,1	1/2, 1-1/4	HH-3	HH-4	3 [20A2G], 1 [30A2G, 50A3G]	1
PC-8	3	1/2	HH-4	HH-5	3 [20A2G]	
PC-9	1	1/2	HH-5	BENCH RECEPTACLE	20A2G	1
ABBREVI PC = POV	VER COND	JIT				

GENERAL NOTES:

- A. SEE FEEDER SCHEDULE ON E901 FOR CONDUIT AND CONDUCTOR SIZE, TYPE, AND QUANTITY.
- B. CUT THROUGH EXISTING ASPHALT FOR TRENCH. SEE TRENCH DETAILS 3 & 4 ON THIS SHEET FOR MORE INFORMATION.
- 14-505 RECEPTACLE.

## SPECIFIC NOTES:

1. REMOVE AND REINSTALL EXISTING PAVERS AS REQUIRED TO INSTALL ELECTRICAL CONDUITS TO POWER PEDESTALS.



# **GENERAL NOTES**

- SEE E001 FOR GENERAL NOTES.
- SEE E101 FOR GENERAL SITE NOTES AND LEGEND. ROUTING OF BURIED FEEDERS IS DIAGRAMMATIC ONLY;
- COORDINATE ACTUAL ROUTING WITH FIELD CONDITIONS AND OBSTACLES.
- NO ATTEMPT HAS BEEN MADE TO INDICATE EXISTING BURIED UTILITIES AND OBSTACLES.
- PRIOR TO BEGINNING WORK, PROVIDE LOCATION SERVICES 5. TO IDENTIFY EXISTING BURIED UTILITIES INCLUDING BUT NOT LIMITED TO WATER, POWER, TELECOMMUNICATION, AND SEWER.

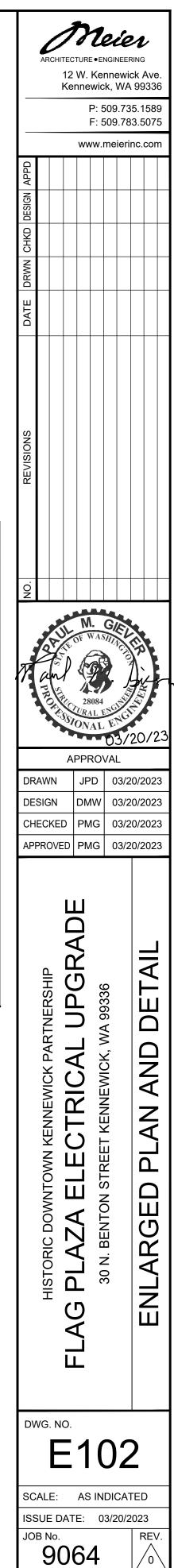
# KEYNOTES (#)

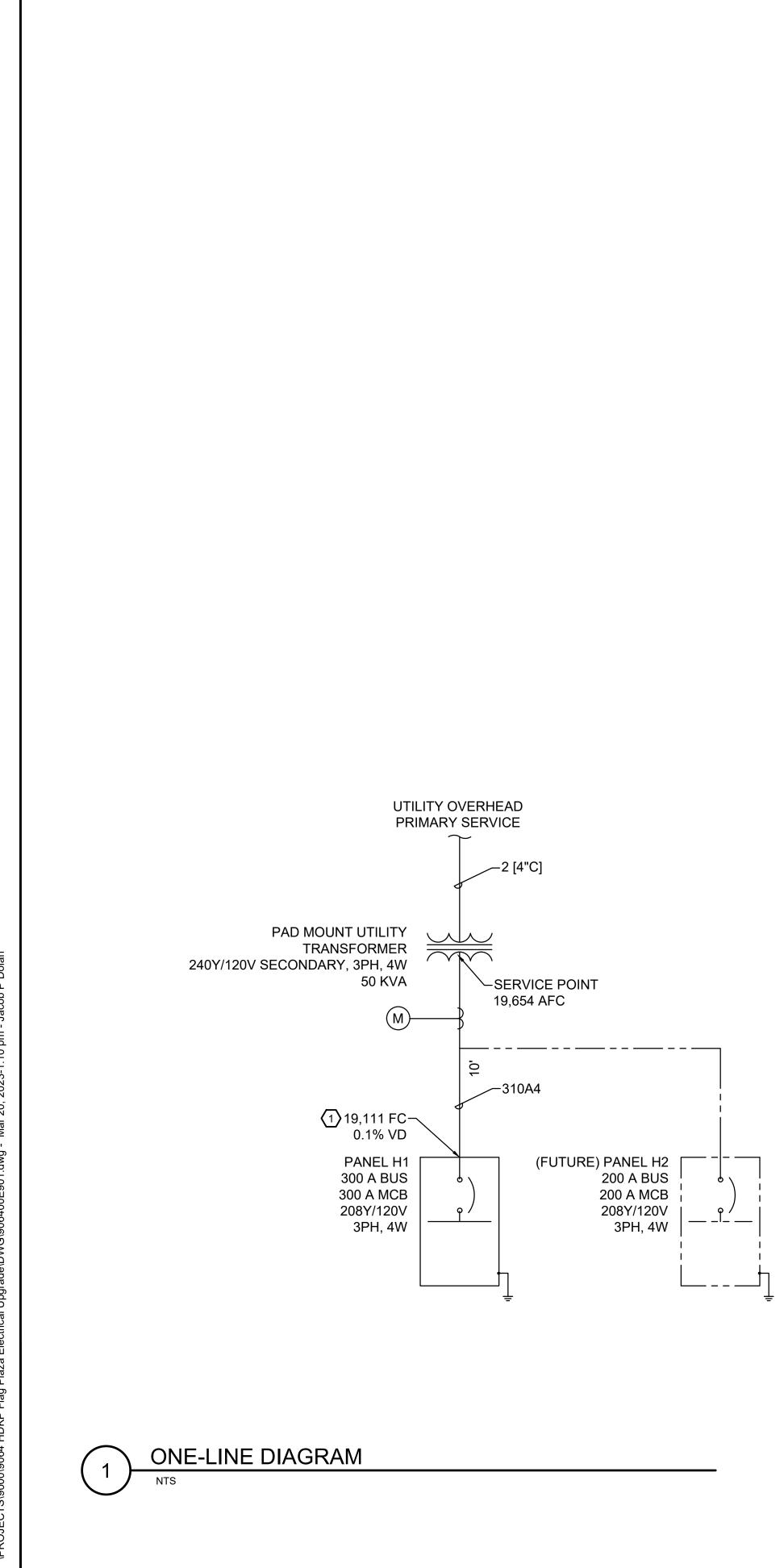
- PANEL A CIRCUIT 29 IN PC-3 CONTINUES ON 1/E101.
- PANEL A CIRCUITS 2, 4, & 27 IN PC-8 CONTINUES ON 1/E101. EACH FOOD TRUCK POWER PEDESTAL SHALL BE INSTALLED WITH ONE NEMA 14-50R AND ONE NEMA L14-30R RECEPTACLE IN THE SIEMENS TL137US TALON TEMPORARY POWER OUTLET PANEL (OR APPROVED EQUAL) AND WITH POST AND CONCRETE FOUNDATION AS RECOMMENDED BY MANUFACTURER. SEE PANEL SCHEDULE ON E901 FOR THE CIRCUITING FOR THE CORRESPONDING RECEPTACLES. SEE SITE CONDUIT SCHEDULE ON THIS SHEET FOR CONDUIT INFORMATION.

C. EACH POWER PEDESTAL SHALL BE FED FROM THE NEAREST HANDHOLE. A 1/2" CONDUIT CONTAINING 30A2G SHALL FEED THE NEMA L14-30R RECEPTACLE AND A 1-1/4" CONDUIT CONTAINING 50A3G SHALL FEED THE NEMA

### NOTES:

	1.	VERTICAL POSTS SHALL BE 3-1/4" DOUBLE STRUT. POSTS TO BE PLUMB AND STRAIGHT.	
NOTE 2 (TYP)	2.	HORIZONTAL RAILS SHALL BE 1-5/8" CHANNEL FRAME RACKING. SECURE POSTS TO FRONT OF RAILS WITH 2" GALVANIZED CHANNEL CONDUIT CLAMPS.	
	3.	PRE-WIRED METER BASE FURNISHED BY UTILITY AND INSTALLED BY CONTRACTOR.	
	4.	PANELBOARD A. NEMA 3R.	
NOTE 7 (TYP)	5.	CONDUIT RISER. SEE ONE-LINE RISER DIAGRAM AND FEEDER SCHEDULE FOR SIZE AND QUANTITY; SECURE CONDUIT TO RAILS PER NEC WITH CONDUIT CLAMPS OF SAME SIZE PER RAIL MANUFACTURERS REQUIREMENTS.	
NOTE 5	6.		
(TYP)	0.	DEEP. 4000 PSI.	
	7	WEATHER RESISTANT GFI OUTLET IN LOCKABLE ENCLOSURE.	
		LEAVE ROOM AND PROVIDE PROVISION FOR FUTURE 200 A PANEL	
_	•		
FINISHED GRADE			
			DW
. 11			SCA





	FEEDER	SCHEDULE				
	NOMINAL					
	FEEDER					
KEY	AMPACITY	CONDUIT & CONNECTORS				
20A2G	20	1/2" C - 2#12, 1#12G				
30A2G	30 40	1/2" C - 2#10, 1#10G				
40A4G	1"C - 4#8, 1#10G					
50A3G	50	1-1/4" C - 3#6, 1#10G				
310A4	310	2" C - 4#350				
AL 100A 4 G	-GROUND CON () - NO GR (G) - GROU (BJ) - BOND (BJ) - BOND (2) - 1Ø, 2W (3) - 1Ø, 2W (3) - 1Ø, 3W (4) - 3Ø, 4W CONDUCTOR (SEE FEEDER CONDUCTOR () - COPP (AL) - ALUMI	ROUND ND NG JUMPER CRIPTION: Y OR 3Ø, 3W AMPACITY: SCHEDULE) TYPE: ER				
310(b)(16)	UCTOR AMPAC	ITIES ARE BASED ON TABLE OR COPPER AND ALUMINUM /THWN.				
INDICATE F NECESSAF AMPACITIE THE DERA	EEDER AMPAG RILY CORRESP S. CERTAIN FE	ON THE RISER DIAGRAM CITIES AND DO NOT OND TO CIRCUIT BREAKER EDERS MAY BE SIZED FOR S REQUIRED BY CODE AND/OR LTAGE DROP.				
INDICATED SHALL COI	FOR A SINGLE	UITS AND CONDUCTORS ARE E FEEDER, EACH CONDUIT LEL PHASE, NEUTRAL, AND INDICATED.				

D. CONDUIT ABOVE GRADE INDOORS SHALL BE EMT. CONDUIT ABOVE GRADE OUTDOORS SHALL BE GALVANZED IMC OR RMC. CONDUIT BELOW GRADE SHALL BE PVC WITH GALVANIZED RMC ELBOWS. CONDUIT SIZE INDICATED IS MINIMUM SIZE REGARDLESS OF CONDUIT TYPE.

E. CONDUITS SIZED LARGED THAN INDICATED SHALL BE PERMITTED FOR RUNS WITH UP TO (4) 90° ELBOWS, OR FOR PULLING LONGER RUNS.

### PANELBOARD: A VOLT, PH, W: 240/120VAC, 1PH, 3W LOCATION: RACK SUPPLY: UTILITY MOUNTING: SURFACE/RACK ENCLOSURE: NEMA 4 PNL GFP: EQUIPMENT NOTES: SERVICE RATED WITH LOCKABLE DOOR. TRIP PHAS скт скт DESCRIPTION [A] P [KV. FOOD TRUCK PEDESTAL #1A 4.8 50 3 4.8 5 FOOD TRUCK PEDESTAL #2A 50 | 7 1 9 11 FOOD TRUCK PEDESTAL #3A 13 FOOD TRUCK PEDESTAL #4A 15 FOOD TRUCK PEDESTAL #1B 17 FOOD TRUCK PEDESTAL #1B 19 FOOD TRUCK PEDESTAL #1B 21 FOOD TRUCK PEDESTAL #1B 23 FOOD TRUCK PEDESTAL #1B 25 RCPT: PANEL A 27 RCPT: S. BENCH GFI WP 29 RCPT: STAGE 4.8 50 4.8 50 30 1 2.9 30 1 30 1 2.9 30 20 1 0.2 20 1 20 1 1.4 TOTAL KVA PER PHASE: 26. **TOTAL AMPS PER PHASE:** 112.2 104.8

				ESTIM	ATED			
LOAD CLASSIFICATION	CONNECTED	LOAD	DEMAND FACTOR	DEMAND		PANEL TOTALS		
LITES	0.0	KVA	125%	0.0	KVA			
RCPT	10.0	KVA	100%	10.0	KVA	TOTAL CONN. LOAD:	51.7	KVA
RCPT AFTER 10KVA	3.3	KVA	50%	1.7	KVA	TOTAL EST. DEMAND:	50.1	KVA
HVAC	0.0	KVA	100%	0.0	KVA	TOTAL CONN.:	215.5	AMPS
MTR	0.0	KVA	100%	0.0	KVA	TOTAL EST. DEMAND:	208.6	AMPS
LARGEST MTR	0.0	KVA	125%	0.0	KVA			•
КТСН	38.4	KVA	100%	38.4	KVA			
HEAT	0.0	KVA	100%	0.0	KVA	·		
OTHER	0.0	KVA	100%	0.0	KVA			

OTHER SCHEDULE NOTES:

FOUNTAIN PUMP SHALL BE CONTROLLED BY ELECTRIC TIME SWITCH IN SERIES WITH CIRCUIT. INTERMATIC ET1100 OR APPROVED EQUAL. . FLAG POLE LUMINAIRE SHALL BE CONTROLLED BY PHOTOCELL IN SERIES WITH CIRCUIT. TORK 2129A OR APPROVED EQUAL. 3. ASSUMED LOAD OF 10 W FOR REPLACEMENT LED BULB. EC SHALL UPDATE PANEL SCHEDULE WITH LOAD OF SELECTED REPLACEMENT BULB FOR RECORD DOCUMENTS.

# **GENERAL NOTES**

- SEE E001 FOR GENERAL NOTES AND LEGEND. 1.
- 2. OVERCURRENT DEVICES OF ENTIRE DISTRIBUTION SYSTEM SHALL MEET STATED FAULT CURRENT VALUES WITH FULLY RATED EQUIPMENT.
- 3. CONDUCTOR LENGTHS INDICATED ON THE ONE-LINE DIAGRAM ARE FOR FAULT CURRENT CALCULATIONS ONLY. ACTUAL LENGTHS SHALL BE DETERMINED BY FIELD CONDITIONS AND ACTUAL ROUTES OF FEEDERS.

# KEYNOTES (#)

1. SHORT CIRCUIT CALCULATIONS BASED ON UTILITY PROVIDED WORST CASE AVAILABLE FAULT CURRENT.

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### SSC RATING: 22 kAIC MAIN TYPE: MCB MAIN RATING: 300A MCB RATING: 300A

ASEA VA]				PHASE B [KVA]		-		_		Р	trip [A]	DESCRIPTION	скт	NOTES
	0.3			1	20	FOUNTAIN MOTOR	2	1						
		4.8	0.0	1	20	LTG: FLAG	4	2,3						
	0.0			1	20	SPARE	6							
		4.8	0.0	1	20	SPARE	8							
	0.0			1	20	SPARE	10							
		4.8	0.0	1	20	SPARE	12							
	0.0			1	20	SPARE	14							
		4.8	0.0	1	20	SPARE	16							
	0.0			1	20	SPARE	18							
		2.9	0.0	1	20	SPARE	20							
	0.0			1	20	SPARE	22							
		2.9	0.0			EMPTY	24							
	0.0					EMPTY	26							
		0.2	0.0			EMPTY	28							
	0.0					EMPTY	30							
6	5.9	25	5.2											

Meier ARCHITECTURE • ENGINEERING 12 W. Kennewick Ave. Kennewick, WA 99336 P: 509.735.1589 F: 509.783.5075 www.meierinc.com 9 03/20/2 APPROVAL DRAWN JPD 03/20/2023 DESIGN DMW 03/20/2023 CHECKED | PMG | 03/20/2023 APPROVED PMG 03/20/2023 HISTORIC DOWNTOWN KENNEWICK PARTNERSHIP PLAZA ELECTRICAL UPGRADE 30 N. BENTON STREET KENNEWICK, WA 99336 DIAGRAMS C 4 Ш DWG. NO. E901 SCALE: NOT TO SCALE ISSUE DATE: 03/20/2023 JOB No. REV. 9064 / o`