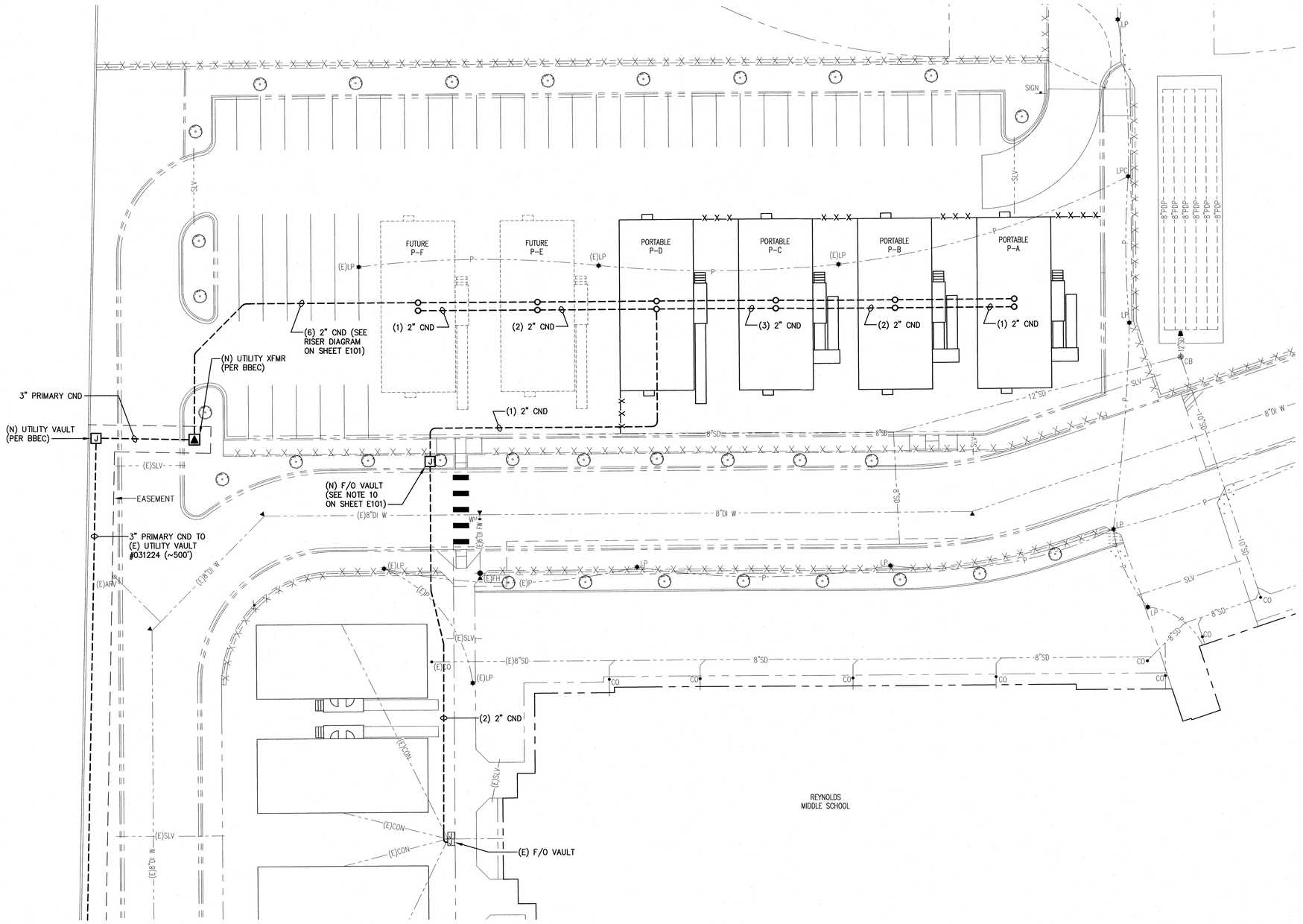


ELECTRICAL SITE PLAN

20' 0 20' 40'
SCALE: 1"=20'

ANDEL G. VALARIO
STATE OF WASHINGTON
34260
REGISTERED
PROFESSIONAL ENGINEER
5/18/26

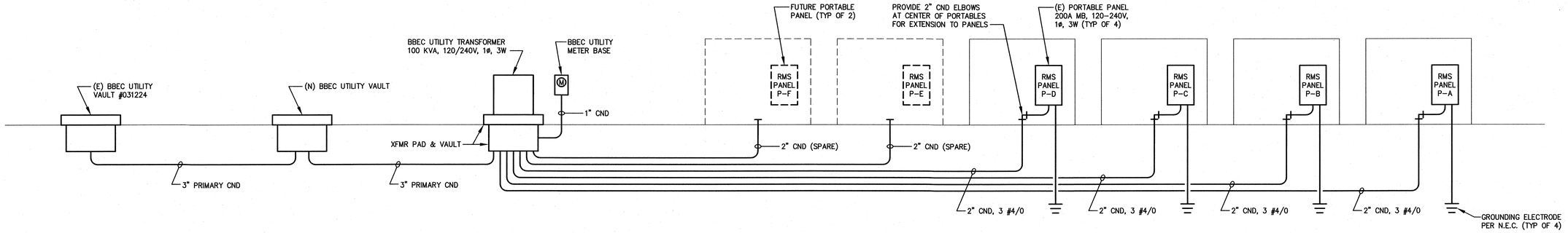
REV	REVISION DESCRIPTION	DATE
0	ISSUED FOR BID	5/18/26

DHITTLE & ASSOCIATES, INC.
Engineers and Consultants
7515 WEST DESCHUTES AVENUE
KENNEWICK, WA 99336
(509) 735-5350

PASCO SCHOOL DISTRICT
REYNOLDS MIDDLE SCHOOL
DRY PORTABLES

ELECTRICAL SITE PLAN

DWN BY: PBE | DSN BY: PBE | CHK BY: RGV | DATE: 5/18/26 | PROJ. # 260301 | DWG: E100 | 0



ELECTRICAL RISER DIAGRAM

PANEL SCHEDULE FOR **PSD DRY PORTABLE**

EXISTING PANEL

200 AMP PANEL WITH MAIN BREAKER (200 AMP)
120/240 VOLTS 1 PHASE 3 WIRE
DESCRIPTION: 10K AIC

	VOLT-AMPS		BRKR	Load				Load	BRKR	VOLT-AMPS		
DESCRIPTION	A	B	A/P	Type	A		B	Type	A/P	A	B	DESCRIPTION
OUTLETS	900		20/1	O	1	*	2	H	90/2	7073		HVAC UNIT #1
OUTLETS		1080	20/1	O	3	*	4	H			7073	
OUTLETS	1080		20/1	O	5	*	6	H	90/2	7073		HVAC UNIT #2
OUTLETS		900	20/1	O	7	*	8	H			7073	
EXTERIOR LIGHTS	130		20/1	L	9	*	10		20/1	0		SPARE
LIGHTS		792	20/1	L	11	*	12		20/1		0	SPARE
LIGHTS	792		20/1	L	13	*	14		20/1	0		SPARE
SPACE		0			15	*	16				0	SPACE
SPACE	0				17	*	18			0		SPACE
SPACE		0			19	*	20				0	SPACE
TOTAL VA LEFT	2902	2772	TOTAL CONNECTED LOAD							REMARKS:		
TOTAL VA RIGHT	14146	14146	33966 VA 142 AMPS									
TOTAL VA	17048	16918	TOTAL FEEDER DEMAND LOAD									
TOTAL AMPS	142	141	34395 VA 143 AMPS									

L = Lighting Loads
M = Motor Loads
H = HVAC
C = Computer Use Outlets
O = General Use Outlets
A = Dedicated/Specific Use
LM = Largest Single Motor Load

Feeder Demand Load Calc.

Lighting VA	1714	x 125% =	2142.5	
Outlet VA	3960	*	3960	* First 10,000 VA + 50% of remainder
Appliance VA	0	x 100% =	0	
Computer	0	x 100% =	0	
HVAC	28292	x 100% =	28292	
Motor VA	0	x 100% =	0	
Largest Motor VA	0	x 125% =	0	
	33966		34394.5	

TOTAL DEMAND LOAD CALCULATION:

DRY PORTABLE P1 — 34.40 KVA, 143 AMPS
DRY PORTABLE P2 — 34.40 KVA, 143 AMPS
DRY PORTABLE P3 — 34.40 KVA, 143 AMPS
DRY PORTABLE P4 — 34.40 KVA, 143 AMPS
DRY PORTABLE P5 — 34.40 KVA, 143 AMPS (FUTURE)
DRY PORTABLE P6 — 34.40 KVA, 143 AMPS (FUTURE)

TOTAL DEMAND LOAD — 206.40 KVA, 860 AMPS

SCOPE OF ELECTRICAL WORK:

1. ELECTRICAL CONTRACTOR (EC) TO PROVIDE ALL TRENCHING AND BACKFILL REQUIRED FOR THE PROJECT. THIS INCLUDES PRIMARY AND SECONDARY SERVICES AS SHOWN.
2. EC TO PROVIDE AND INSTALL 3" PRIMARY CONDUIT PER BIG BEND EC SPECIFICATIONS FROM EXISTING UTILITY VAULT TO NEW UTILITY VAULT AND TO NEW TRANSFORMER AS SHOWN. BIG BEND EC TO PROVIDE AND INSTALL ALL PRIMARY WIRING.
3. EC TO PROVIDE AND INSTALL ALL SECONDARY CONDUIT AND WIRE AS SHOWN ON RISER DIAGRAM.
4. BIG BEND EC PROVIDE AND INSTALL NEW UTILITY TRANSFORMER, TRANSFORMER VAULT AND PAD.
5. EC TO PROVIDE AND INSTALL METER BASE AND 1" CONDUIT FROM TRANSFORMER PER BIG BEND EC SPECIFICATIONS. BIG BEND EC TO PROVIDE AND INSTALL CT'S INSIDE OF TRANSFORMER FOR METERING.
6. BIG BEND EC TO PROVIDE AND INSTALL NEW UTILITY VAULT AND PAD.
7. EC TO PROVIDE NEW SERVICE GROUNDING ELECTRODE SYSTEM AS REQUIRED PER NEC.
8. ALL CONDUIT SHALL BE SCHEDULE 40 PVC. ALL SERVICE WIRING SHALL BE TYPE XHHW COPPER. DIRECT BURIED CONDUITS SHALL BE BURIED A MINIMUM OF 24" FROM FINISHED GRADE TO TOP OF CONDUIT. BURIAL DEPTH OF PRIMARY CONDUITS SHALL BE MINIMUM OF 36" FROM FINISHED GRADE TO TOP OF CONDUIT PER BIG BEND EC SPECIFICATIONS.
9. COORDINATE ALL SERVICE WORK INVOLVING THE UTILITY TRANSFORMER AND PRIMARY CONDUIT WORK WITH BIG BEND EC, JASON MERCER (509) 659-1700, EXT 2210.
10. EC TO PROVIDE AND INSTALL NEW FIBER-OPTIC VAULT AND 2" CONDUIT AS SHOWN ON SHEET E100. VAULT TO BE EQUAL TO OLD CASTLE #233-LA. PROVIDE TRENCH AND BACKFILL AS REQUIRED FOR VAULT AND CONDUITS.

DANIEL G. VALERIO — STATE OF WASHINGTON — 34260 — REGISTERED PROFESSIONAL ENGINEER — 5/18/26

REV	REVISION DESCRIPTION	DATE
0	ISSUED FOR BID	5/18/26

DHITTLE & ASSOCIATES, INC.
Engineers and Consultants
7515 WEST DESCHUTES AVENUE
KENNEWICK, WA 99336
(509) 735-5350

PASCO SCHOOL DISTRICT
REYNOLDS MIDDLE SCHOOL
DRY PORTABLES

ELECTRICAL RISER DIAGRAM & PANEL SCHEDULE

DWN BY:	PBE	DSN BY:	PBE	CHK BY:	RGV	DATE:	5/18/26	PROJ. #	260301	DWG:	E101	0