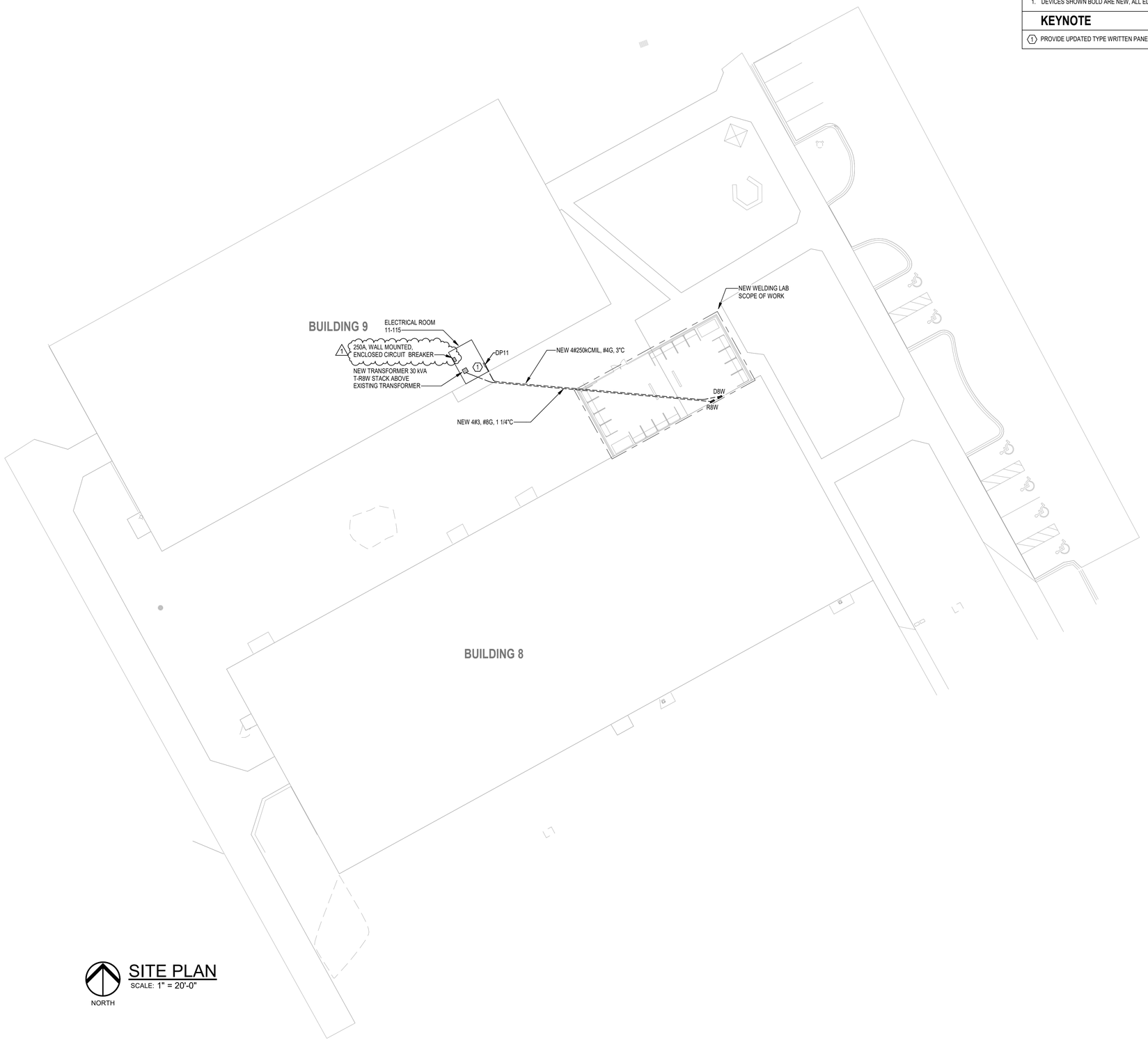
GENERAL NOTES

1. DEVICES SHOWN BOLD ARE NEW, ALL ELSE IS EXISTING.

KEYNOTE

(1) PROVIDE UPDATED TYPE WRITTEN PANEL SCHEDULE IN PANEL INDICATING CURRENT CIRCUIT CONDITIONS.



NORTH

SITE PLAN
SCALE: 1" = 20'-0"

ENGINEERING

114 EAST 5th AVENUE
TALLAHASSEE, FL 32303
PHONE 850.224.7922
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H2E PROJECT No. 24105

Florida Registry #2485
Anthony D. Wyrick, P.E. #98346

REVISIONS

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	ADDENDUM #1	APA	ADW	12-16-24

PHASE	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN			07/15/24
DESIGN DEVELOPMENT	GAG	ADW	09/25/24
CONSTRUCTION DOCUMENTS	APA	ADW	11/08/24

JRA ARCHITECTS
2551 BLAIRSTONE PINES DR.
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PHONE: (850) 878-7891
Commission Number: 24855

CONSULTANTS:

PROJECT:

CHILES HIGH SCHOOL
WELDING LAB

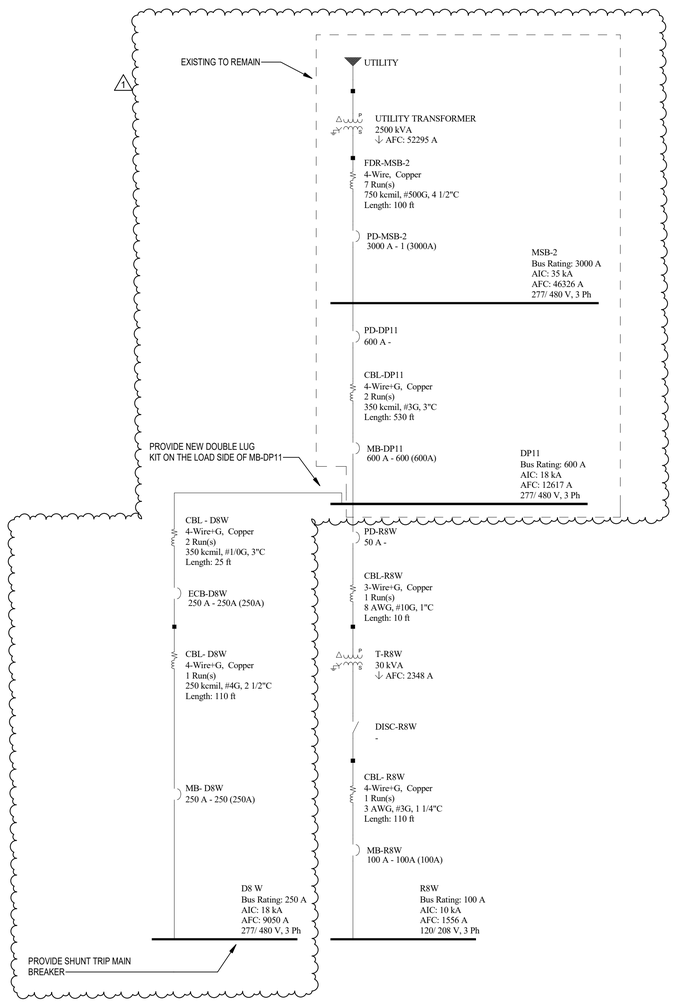
LEON COUNTY, FLORIDA

SHEET TITLE:

SITE PLAN

SHEET NUMBER:

E1.0



LOAD CALC PER NEC 630.11
INVERTEC V27E = 14A ea
2*14 * 1 = 28A
1*14*.85 = 11.9A
1*14*.7 = 9.8
12*14*.6 = 100.8
=150.5A = 125 kVA

PANEL DP11 LOAD CALCULATIONS:
EXISTING LOAD TAKEN FROM
AS BUILT DRAWINGS.
- 349.5 kVA

ADDITONAL LOAD
- D8W = 125 kVA
- R8W = 7 kVA

NEW TOTAL 481.5 kVA = 579.2A @ 480V/3PH

ONE LINE DIAGRAM - ELECTRICAL

SCALE: NONE

GENERAL NOTES:

1. SHORT CIRCUIT CALCULATIONS PERFORMED ON 3/30/2023 BASED ON ASSUMED TRANSFORMER SIZES SHOWN.
2. PROVIDE ARC FLASH WARNING LABELS ON NEW ELECTRICAL EQUIPMENT DESIGNATED IN NEC 2017 110.16. CONTRACT ENGINEER FOR ELECTRONIC COPY OF LABELS.

NOTE: WIRE LENGTHS SHOWN ON ONE LINE DIAGRAM ARE FOR CALCULATIONS PURPOSES AND NOT INTENDED FOR MATERIAL TAKE-OFFS. CONTRACTOR SHALL USE SCALED PLANS FOR ACTUAL LENGTHS.

Branch Panel: D8W

New Construction

Location:
Supply From:
Mounting: Surface
Enclosure: Type 3R
Notes:

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 18000 A
Main Type: MCB
Main Rating: 250 A
MCB Rating: 250 A
Trip Function: SHUNT

CKT	Load Name	Special	Trip	Poles	Wire Size	A		B		C		Wire Size	Poles	Trip	Special	Load Name	CKT
1						20,840	--					--	1	--		Space	2
3	WELDING PACK		90 A	3	3-#4, 1-#4, 1-#8			20,840	--			--	1	--		Space	4
5										20,840	--	--	1	--		Space	6
7						20,840	--					--	1	--		Space	8
9	WELDING PACK		90 A	3	3-#4, 1-#4, 1-#8			20,840	--			--	1	--		Space	10
11										20,840	--	--	1	--		Space	12
13	Spare		--	1	--	0	--					--	1	--		Space	14
15	Spare		--	1	--			0	--			--	1	--		Space	16
17	Spare		--	1	--					0	--	--	1	--		Space	18
19	Spare		--	1	--	0	--					--	1	--		Space	20
21	Spare		--	1	--			0	--			--	1	--		Space	22
23	Spare		--	1	--					0	--	--	1	--		Space	24
25	Spare		--	1	--	0	--					--	1	--		Space	26
27	Spare		--	1	--			0	--			--	1	--		Space	28
29	Spare		--	1	--					0	--	--	1	--		Space	30
			Total Load:			41,680 VA		41,680 VA		41,680 VA							
			Total Amps:			150 A		150 A		150 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	125040 VA	100.00%	125040 VA		
				Total Conn. Load:	125 kVA
				Total Est. Demand:	125 kVA
				Total Conn.:	150 A
				Total Est. Demand:	150 A

Notes:

****Provide conduit size per NEC 2017 Annex C, Tables C.1:C12a for specified wire type, size, and conductor material.**

Branch Panel: R8W

New Construction

Location:
Supply From:
Mounting: Surface
Enclosure: Type 3R
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10000 A
Main Type: MCB
Main Rating: 100 A
MCB Rating: 100 A
Trip Function:

CKT	Load Name	Special	Trip	Poles	Wire Size	A		B		C		Wire Size	Poles	Trip	Special	Load Name	CKT
1	RECEPT WEST BOOTHS		20 A	1	1-#12, 1-#12, 1-#12	720	450					1-#12, 1-#12, 1-#12	1	20 A		LIGHTING	2
3	RECEPT SOUTH BOOTHS		20 A	1	1-#12, 1-#12, 1-#12			720	250			1-#12, 1-#12, 1-#12	1	20 A		SHUNT TRIP POWER	4
5	RECEPT EAST BOOTHS		20 A	1	1-#12, 1-#12, 1-#12					900	720	1-#10, 1-#10, 1-#10	1	20 A		HVLS FAN	6
7	RECEPT NORTH BOOTHS		20 A	1	1-#12, 1-#12, 1-#12	720	720					1-#10, 1-#10, 1-#10	1	20 A		HVLS FAN	8
9	RECEPT KNEE WALL		20 A	1	1-#12, 1-#12, 1-#12			540	--			--	1	--		Space	10
11	RECEPT KNEE WALL		20 A	1	1-#12, 1-#12, 1-#12					540	--	--	1	--		Space	12
13	RECEPT KNEE WALL		20 A	1	1-#12, 1-#12, 1-#12	540	--					--	1	--		Space	14
15	RECEPT KNEE WALL		20 A	1	1-#12, 1-#12, 1-#12			540	--			--	1	--		Space	16
17	RECEPT CORD REEL		20 A	1	1-#12, 1-#12, 1-#12					360	--	--	1	--		Space	18
19	RECEPT CORD REEL		20 A	1	1-#12, 1-#12, 1-#12	360	--					--	1	--		Space	20
21	Spare		--	1	--			0	--			--	1	--		Space	22
23	Spare		--	1	--					0	--	--	1	--		Space	24
25	Spare		--	1	--	0	--					--	1	--		Space	26
27	Spare		--	1	--			0	--			--	1	--		Space	28
29	Spare		--	1	--					0	--	--	1	--		Space	30
			Total Load:			3,510 VA		2,050 VA		2,520 VA							
			Total Amps:			30 A		17 A		22 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	450 VA	100.00%	450 VA		
Motor	1440 VA	112.50%	1620 VA	**Total Conn. Load:**	8 kVA
Other	250 VA	100.00%	250 VA	**Total Est. Demand:**	8 kVA
Receptacle	5940 VA	100.00%	5940 VA	**Total Conn.:**	22 A
				Total Est. Demand:	23 A

Notes:

****Provide conduit size per NEC 2020 Annex C, Tables C.1:C12a for specified wire type, size, and conductor material.**

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LEON COUNTY, FLORIDA

SHEET TITLE:

PANEL SCHEDULES

SHEET NUMBER:

E4.0