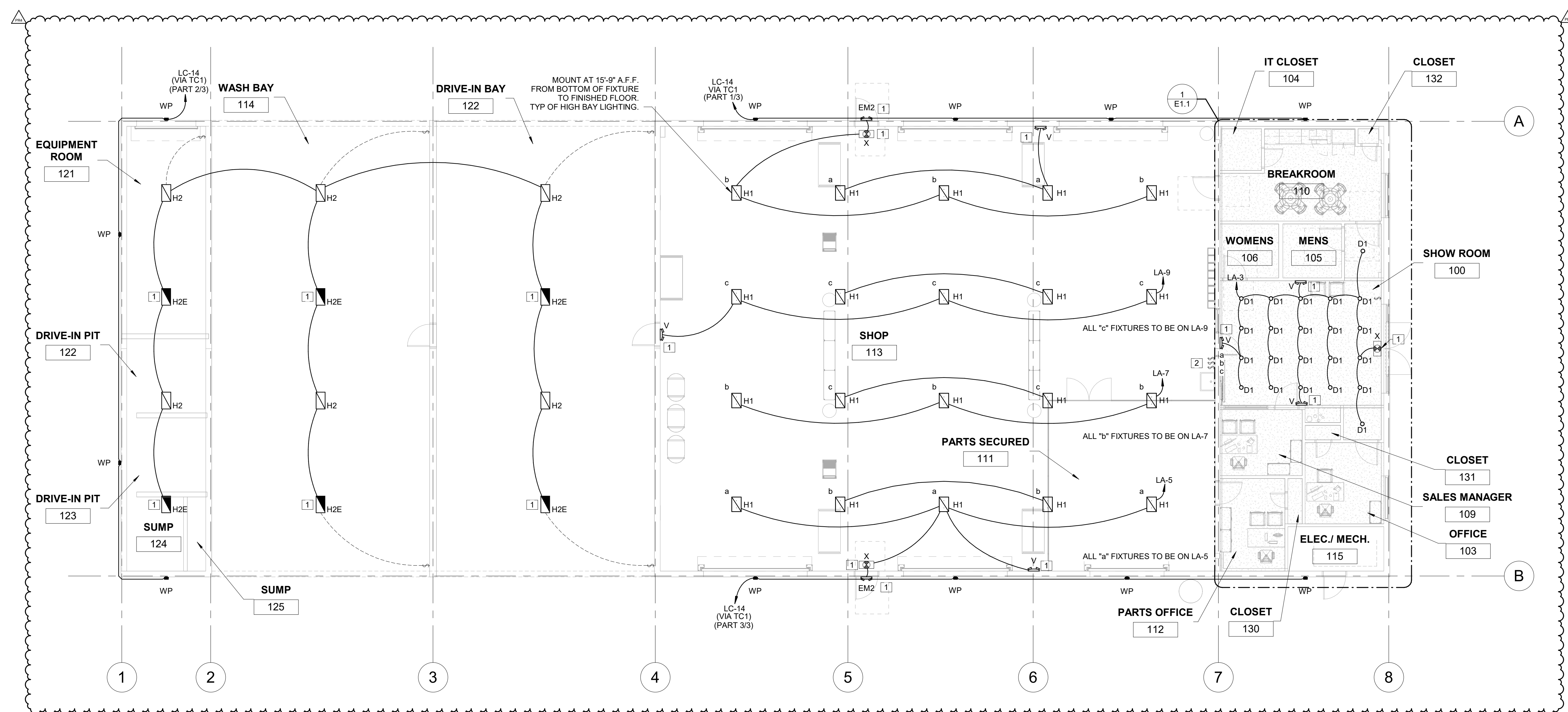


LIGHTING FIXTURE SCHEDULE										
TYPE MARK	VENDOR	MODEL	QTY	VOLTAGE	LAMP SPECIFICATION	MOUNTING	DESCRIPTION			
FL1	VILLA LIGHTING SOLUTIONS	SATCO S41826 12-5W LED RFLS 8 CCT SEL 120V	3	120V	LED 14 W	RECESSED	RECESSED LED DOWNLIGHT			
FL2	COOPER LIGHTING SOLUTIONS	NFLD-C40-D-UNV-33	10	120V	LED 143 W	POLE	EXTERIOR DUAL HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY BACKUP, MOUNT TO WALL WITH TOP OF FIXTURE 6" ABOVE DOOR. LED FLOODLIGHT LUMINAIRE			
H1	VILLA LIGHTING SOLUTIONS	OHB 15HE MFL UNV L840	20	120V	LED 102 W	SUSPENDED	LED HIGH BAY LIGHT			
H2	COOPER LIGHTING SOLUTIONS	NFLD-C40-D-UNV-66	7	120V	LED 128 W	POLE	LED FLOODLIGHT LUMINAIRE			
H2E	COOPER LIGHTING SOLUTIONS	VT4S-15-PCF-UNV-L840-EL10W-CD-1-WL-U	6	120V	LED 108 W	SUSPENDED	WET LOCATION RATED LED HIGH BAY LIGHT			
L1	VILLA LIGHTING SOLUTIONS	8LSLSTP1104DD-UNV	1	UNIV	LED 94 W	SUSPENDED	8' LED STRIP LIGHT			
P4	COOPER LIGHTING SOLUTIONS	PRV-C40-D-UNV-T4-BZ	1	UNIV	LED 131 W	POLE	LED SITE LUMINAIRE			
V	EXITRONIX	QMR-WH	14	120V	LED 3 W	SURFACE	INTERIOR DUAL HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY BACKUP, MOUNT TO SURFACE OF FINISHED CEILING OR TO WALL WITH TOP OF FIXTURE 6" BELOW CEILING. SALES FIXTURES TO BE MOUNTED WITH BOTTOM OF FIXTURES AT 12'-0" AFF. ALL OTHER AREAS OPEN TO STRUCTURE TO BE MOUNTED TO BOTTOM OF BAR JOIST.			
WP	COOPER LIGHTING SOLUTIONS	XTOR3B	12	120V	LED 26 W	WALL MOUNT	CROSSTOUR WALL PACK LED			
	EXITRONIX	VLED-WIRE-LEDOR	3	UNIV	LED 22 W	SUSPENDED	MOUNTED AT 3'-0" AFF CENTERED ABOVE DOOR. ARROWS AS INDICATED OR REQUIRED.			

NOTES: 1. PURCHASE ALL LIGHTING FIXTURES THROUGH VILLA LIGHTING. CONTACT: ANNE VOELKER, PH. 314.833.0554, EMAIL: EQUIPMENTSHARE@VILLALIGHTING.COM

- ### ELECTRICAL KEYNOTES
- | # | DESCRIPTION |
|---|--|
| 1 | EXIT SIGNS, EMERGENCY LIGHTS AND NIGHT LIGHTING (NOTED WITH N1) SHALL CONNECT TO THE UNSWITCHED LINE SIDE OF THE LIGHTING CIRCUIT SERVING AREA LIGHTING AND SHALL NOT BE SWITCHED. |
| 2 | PROVIDE TRI-LEVEL SWITCHING BY ALTERNATING SWITCH LEGS BETWEEN LIGHT FIXTURES. LOWER CASE LETTERING DENOTES THE LIGHT FIXTURE CONTROLLED BY CORRESPONDING LIGHT SWITCH. |
- ### GENERAL LIGHTING NOTES
- THE BRANCH CIRCUIT FEEDING THE EMERGENCY/EXIT LIGHTS SHALL BE THE SAME BRANCH CIRCUIT AS THAT SERVING THE NIGHT LIGHTING IN THE AREA AND SHALL BE CONNECTED AHEAD OF ANY LOCAL SWITCHES OR CONTACTORS AND PROVIDED WITH A LOCK-ON FEATURE.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION.
 - ALL EQUIPMENT AND MATERIALS SHALL BE UL LISTED AND LABELED FOR TYPES OF EQUIPMENT AND MATERIALS FOR WHICH LISTING AND LABELING IS AVAILABLE.
 - FURNISH AND INSTALL ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE ELECTRICAL SYSTEM.
 - MINIMUM WIRE SIZE SHALL BE #12 A.W.G. UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH "THWN" INSULATION UNLESS NOTED OTHERWISE.
 - ALL WIRE SHALL BE IN CONDUIT UNLESS NOTED OTHERWISE.
 - TYPE MC CABLE WITH ALUMINUM ARMOR AND INTERNAL GROUND IS ACCEPTABLE FOR USE AS GENERAL BRANCH CIRCUIT WIRING FOR CIRCUITS 20 AMPERES OR LESS AND CONCEALED IN WALLS OR ABOVE SUSPENDED CEILING AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
 - PROVIDE A SEPARATE GROUND CONDUCTOR FOR ALL FEEDERS AND BRANCH CIRCUITS.
 - CONDUCTORS FOR BRANCH CIRCUITS SHALL BE SIZED TO PREVENT VOLTAGE DROP EXCEEDING 3 PERCENT AT THE FARTHEST OUTLET OF CIRCUIT. WHERE VOLTAGE DROP IS DETERMINED TO EXCEED THIS VALUE THE CONTRACTOR SHALL INCREASE THE SIZE OF CONDUCTORS AS REQUIRED.
 - CONTRACTOR TO BE RESPONSIBLE FOR ALL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT UNLESS NOTED OTHERWISE.
 - IN AREAS OF OPEN STRUCTURE, MOUNT STRIP FIXTURE TO BOTTOM CHORD OF BAR JOIST, UNLESS NOTED OTHERWISE.
 - PROVIDE SEPARATE BOXES FOR GANGED SWITCHES ON SEPARATE BRANCH CIRCUITS.
 - EMERGENCY LIGHT FIXTURE INSTALLATION:
 - WALL FIXTURE: 12" BELOW FINISHED CEILING OR +10'-0" IN AREAS OF EXPOSED STRUCTURE, UNLESS NOTED OTHERWISE.
 - PENDANT FIXTURE: BOTTOM CHORD OF BAR JOIST OR AT HEIGHT SPECIFIED ON DRAWINGS.
 - REMOTE HEAD FIXTURE: HEADS CENTERED ABOVE DOOR OPENING +9'-0", UNLESS NOTED OTHERWISE AND BATTERY PACK MOUNTED ON INTERIOR SIDE OF WALL 12" BELOW FINISHED CEILING OR AT BAR JOIST IN AREAS OF EXPOSED STRUCTURE.
 - EXIT SIGN MOUNTING:
 - WALL FIXTURE: CENTER 12" ABOVE DOOR OPENING.
 - CEILING FIXTURE: ON CEILING OR AT HEIGHT SPECIFIED ON DRAWINGS.
 - VERIFY MOUNTING HEIGHT WITH AHJ.



1 LIGHTING PLAN
1/8" = 1'-0"

2859 Alca Avenue Suite 100
Pogon, Arizona 85758
Phone: 479.634.3545
Fax: 479.634.1299

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EQUIPMENT SHARE GROUND-UP
US HWY 90
LAKE CITY, FL 32055

2023.0377

JOB NUMBER:

ISSUE BLOCK

DATE	DESCRIPTION
08.11.2023	OTP
10.13.2023	PR1 PLAN REV. 1
11.10.2023	PR2 PLAN REV. 2
09.24.2024	PR4 PLAN REV. 4

CHECKED BY: TJ
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LIGHTING PLAN

SHEET: E1.0

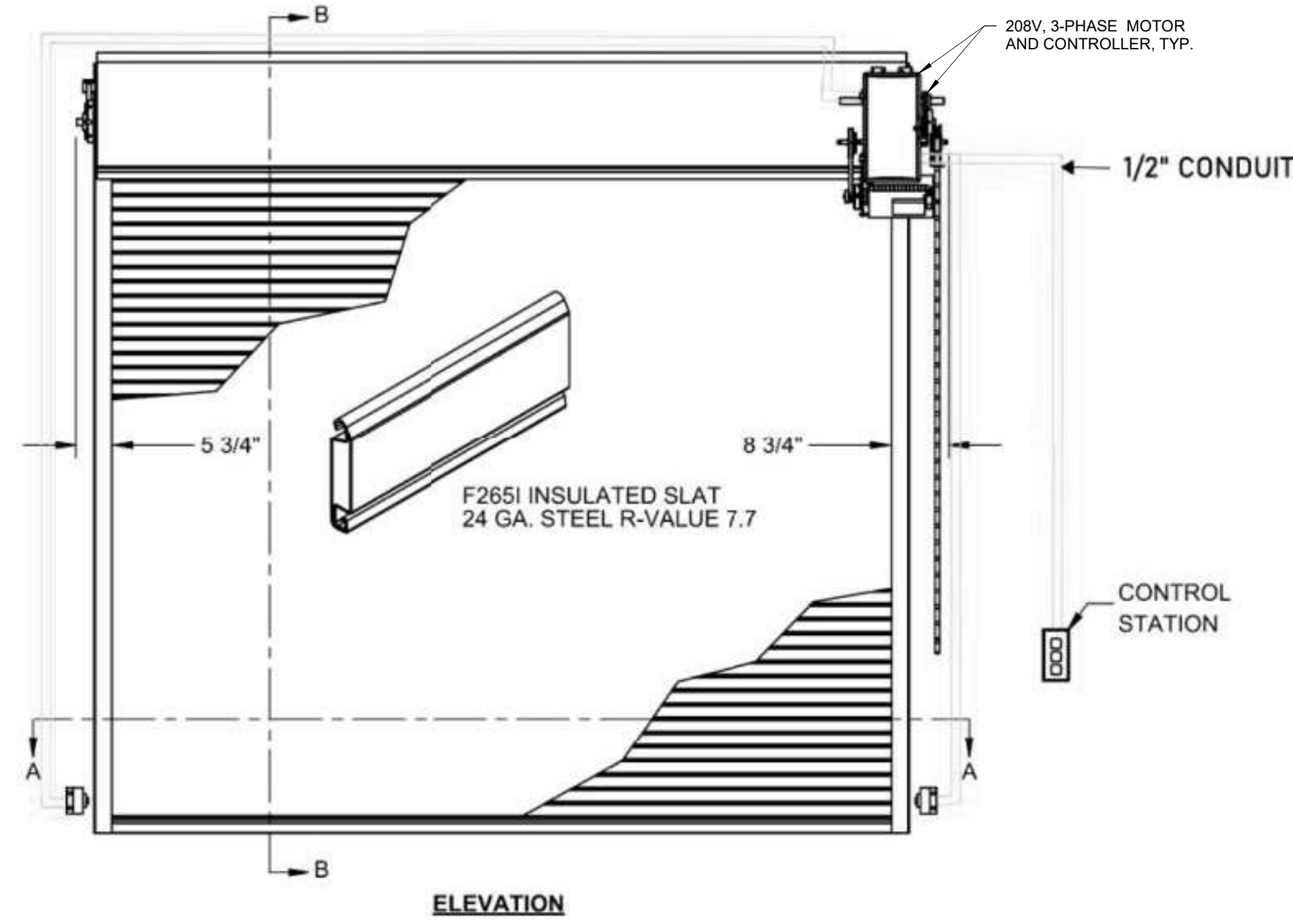
EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

ELECTRICAL KEYNOTES

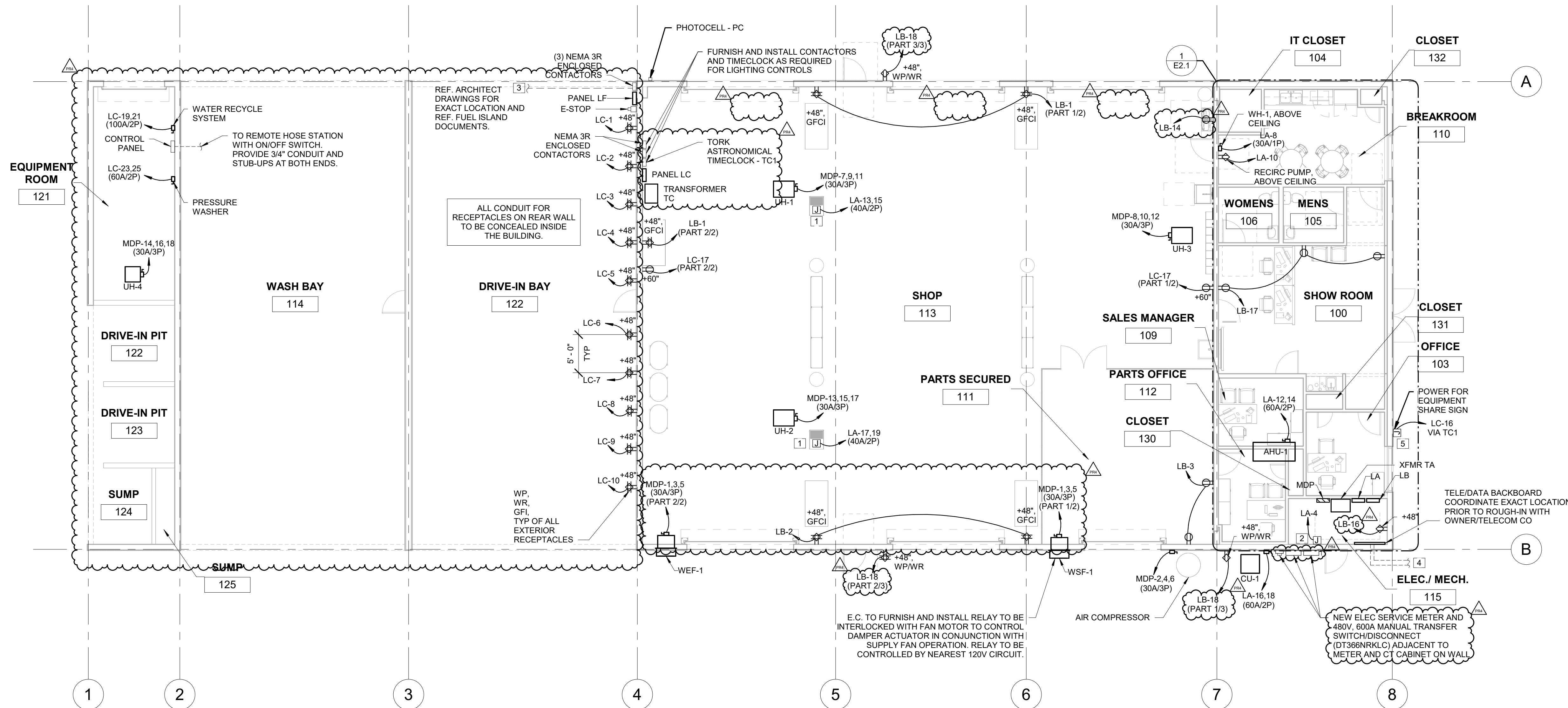
#	DESCRIPTION
1	PROVIDE CORD DROPS FOR CIRCUITS IN THIS AREA.
2	EC SHALL PROVIDE CIRCUIT AND DEVICES REQUIRED FOR INSTALLATION OF F.A.C.P. BY VENDOR. COORDINATE EXACT LOCATION WITH VENDOR PRIOR TO ROUGH-IN.
3	PROVIDE 1" CONDUIT FROM EACH OF THREE NEMA 3R ENCLOSED CONTACTORS OUT TO FLOW MASTER CONTROLLER. ALL CONDUIT WITHIN 25FT FROM TANKS SHALL BE GALVANIZED RIGID WITH SEAL-OFF AT BOTH ENDS. REF PANEL SCHEDULE FOR CIRCUIT INFORMATION.
4	PROVIDE (2) 3" CONDUITS FOR TELEPHONE/INTERNET SERVICE. COORDINATE LOCATION AND REQUIREMENTS WITH CIVIL PLANS AND SERVICE PROVIDER.
5	COORDINATE EXACT BUILDING SIGN POWER REQUIREMENTS AND LOCATION PRIOR TO ROUGH-IN.

GENERAL POWER NOTES

- A. ALL BREAKERS ARE TO BE LABELED. PROVIDE TYPED PANEL DIRECTORIES FOR EACH PANELBOARD.
- B. COMPLY WITH NFPA, STATE AND LOCAL BUILDING, AND/OR OTHER APPLICABLE CODES AND ORDINANCES.
- C. COORDINATE ALL WORK WITH OTHER CONTRACTORS TO SCHEDULE INSTALLATION AT THE PROPER TIME. IN THE AVAILABLE SPACE, AND ALLOWING FOR PROPER SERVICE ACCESS TO EQUIPMENT.
- D. COMPLY WITH NEC AND HAVE A MINIMUM SIZE OF #12 AWG WIRING. PROVIDE COPPER CONDUCTORS WITH U.L. LABEL AND 600 VOLT INSULATION OF THHN (DRY LOCATIONS), THWN (WET LOCATIONS), AND THWN OR XHHN FOR SERVICE ENTRANCE.
- E. PERSONALLY INSPECT THE SITE OF THE PROPOSED WORK AND BECOME FULLY INFORMED OF THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. FAILURE TO DO SO IS NOT CONSIDERED SUFFICIENT JUSTIFICATION FOR EXTRA COMPENSATION.
- F. UPON COMPLETION OF ELECTRICAL INSTALLATION AND PRIOR TO ENERGIZING CIRCUIT, INSPECT WIRING FOR PHYSICAL DAMAGE, PERFORM CONTINUITY TEST, AND VERIFY PROPER PHASING CONNECTION TO ALL THREE PHASE MOTOR LOADS.
- G. CONCEAL CONDUIT WHEREVER POSSIBLE. CONDUIT IS TO COMPLY WITH NEC AND HAVE A MINIMUM SIZE OF 1/2".
- H. INSTALL CONDUCTORS IN CONDUIT, UNLESS NOTED OTHERWISE.
- I. DRAWINGS ARE SCHEMATIC IN NATURE, SHOWING COMPONENTS OF THE SYSTEMS AND INDICATING THEIR INTEGRATION WITH OTHER PARTS OF THE BUILDING.
- J. CLEAN ALL EQUIPMENT INSTALLED UNDER THE ELECTRICAL CONTRACT, PRIOR TO PROJECT SUBSTANTIAL COMPLETION.
- K. PROVIDE GALVANIZED STEEL KNOCKOUT BOXES SUITABLE FOR THE DESIGN THEY SERVE, SPACE THEY OCCUPY, AND SIZE REQUIRED FOR OUTLET, JUNCTION, AND PULL BOXES.
- L. PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT AND WIRING FROM DISCONNECT SWITCH OR JUNCTION BOX TO EQUIPMENT KNOCKOUT OR ELECTRICAL CONNECTION POINT.
- M. PROVIDE WHITE SPECIFICATION GRADE WIRING DEVICES. LIGHT SWITCHES ARE RATED 20 AMPS, GENERAL USE RECEPTACLES ARE RATED 20 AMPS.
- N. E.C. TO ROUTE 3/4" FROM EACH DATA OUTLET TO STRUCTURE OR TO ABOVE ACCESSIBLE CEILING SPACE AS APPLICABLE. INSTALL BUSHING AND CONNECTOR ON EACH END. TYPICAL OF ALL DATA OUTLETS.



2 OVERHEAD DOOR DETAIL
1/12" = 1'-0"



1 POWER PLAN
1/8" = 1'-0"

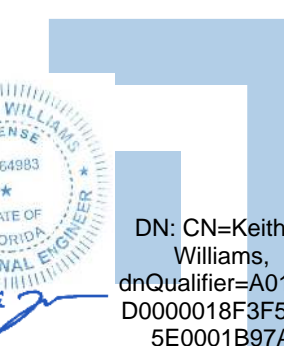
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EQUIPMENT SHARE GROUND-UP
US HWY 90
LAKE CITY, FL 32055
JOB NUMBER: 2023.0377

ISSUE BLOCK

DESCRIPTION	DATE
OTF	08.11.2023
PR1 PLAN REV. 1	10.13.2023
PR2 PLAN REV. 2	11.10.2023
PR4 PLAN REV. 4	09.24.2024

CHECKED BY: TJ
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POWER PLAN

ELECTRICAL KEYNOTES

#	DESCRIPTION
1	DISPOSAL SWITCH.
2	PROVIDE HUBBELL PFBRG3 (OR EQUAL) 3 GANG BOX AND SATIN ALUMINUM COVER. IF REQUIRED, PROVIDE SAWCUT TRENCHING AND BACKFILL PER SITE CONDITIONS. REF ELV1 FOR DATA INFORMATION.



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EQUIPMENT SHARE GROUND-UP
US HWY 90
LAKE CITY, FL 32055

ISSUE BLOCK

ISSUE	DATE
OTD	08.11.2023
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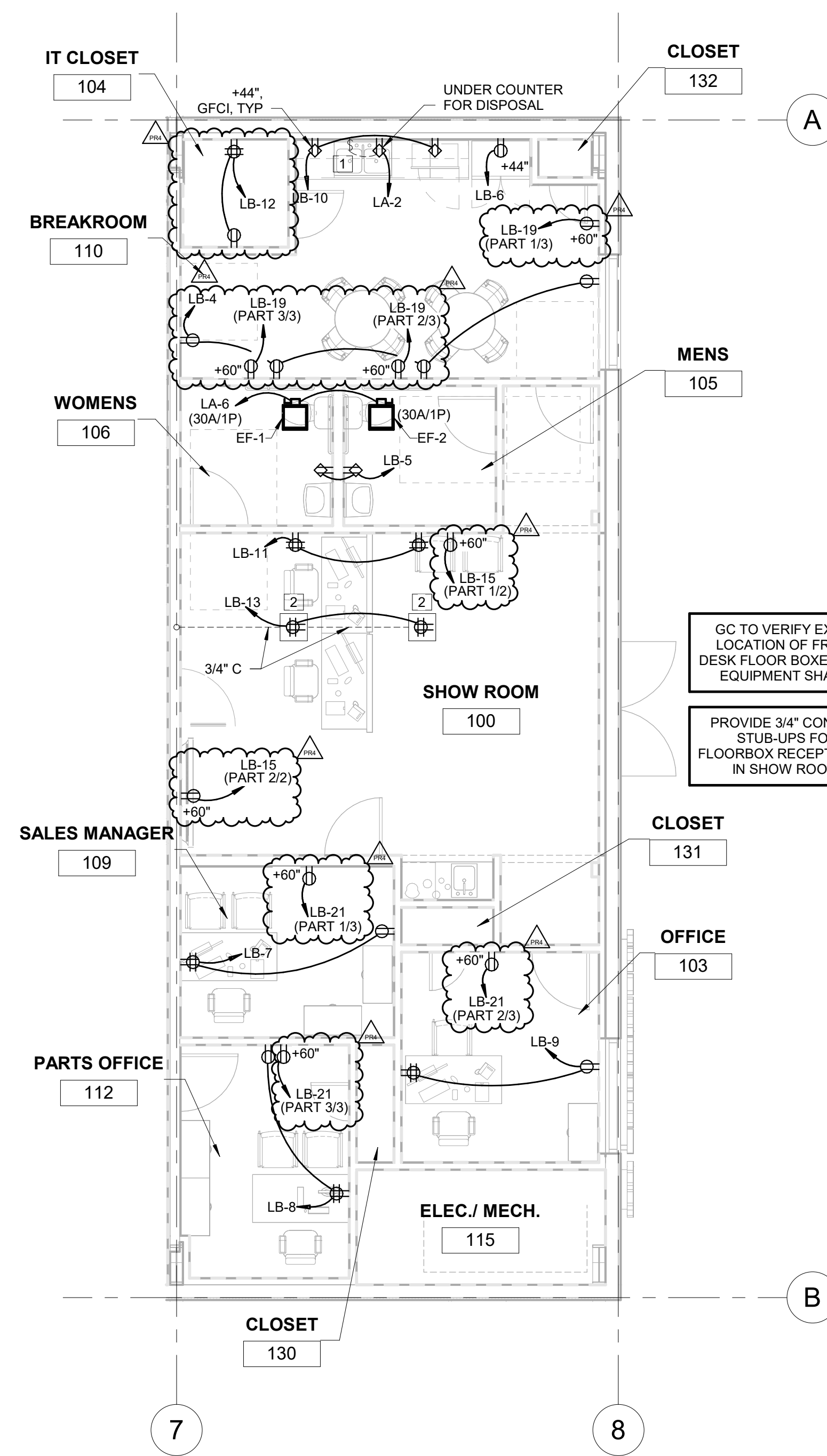


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ENLARGED POWER PLAN

SHEET: **E2.1**



1 ENLARGED POWER PLAN
3/16" = 1'-0"

PANELBOARD: LB (NEW)

BUS AMPS: 200 A
 MAIN SIZE/TYP: M.L.O.
 VOLTS/PHASE: 208/120 Wye, 3PH, 4W
 SERVES: GENERAL POWER
 LOCATION: ELECTRICAL ROOM
 MOUNTING: SURFACE

EQUIPMENT GROUND BUS

Load Name	NOTE	WIRE	BKR AMP	PL	A	B	C	PL	BKR AMP	WIRE	NOTE	Load Name	
1 SHOP BENCH RECEPTACLE	1	10	20 A	1	1,080	720		1	20 A	10	1	SHOP BENCH RECEPTACLE	2
3 PARTS SECURED RECEPTS	--	12	20 A	1		360	720		1	20 A	12	BREAKROOM RECEPTS	4
5 RESTROOM RECEP	--	12	20 A	1					1	20 A	10	REFRIGERATOR - BREAKROOM	6
7 SALES MANAGER RECEPTS	--	12	20 A	1	540	540			1	20 A	12	PARTS OFFICE RECEPTS	8
9 OFFICE 103 RECEPTS	--	12	20 A	1		540	360		1	20 A	12	KITCHENETTE RECEPTS	10
11 SHOW ROOM FRONT DESK	--	12	20 A	1					1	20 A	12	IT CLOSET RECEPTS	12
13 SHOW ROOM FRONT DESK	--	12	20 A	1	720	720			1	20 A	12	DRINKING FOUNTAIN	14
15 SHOW ROOM TV RECEPTS	--	12	20 A	1		360	180		1	20 A	12	ELECTRICAL ROOM RECEP	16
17 SHOW ROOM RECEPTS	--	12	20 A	1					1	20 A	12	EXT RECEPTS - CARD READERS	18
19 BREAKROOM TV RECEPTS	--	12	20 A	1	540	--			1	--	--	SPACE	20
21 OFFICE TV RECEPTS	--	12	20 A	1		540	--		1	--	--	SPACE	22
23 SPARE	--	--	20 A	1			0		1	--	--	SPACE	24
25 SPARE	--	--	20 A	1	0	--			1	--	--	SPACE	26
27 SPARE	--	--	20 A	1		0	--		1	--	--	SPACE	28
29 SPARE	--	--	20 A	1			0		1	--	--	SPACE	30
31 SPARE	--	--	20 A	1	0	--			1	--	--	SPACE	32
33 SPARE	--	--	20 A	1		0	--		1	--	--	SPACE	34
35 SPARE	--	--	20 A	1			0		1	--	--	SPACE	36
37 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	38
39 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	40
41 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	42
43 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	44
45 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	46
47 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	48
49 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	50
51 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	52
53 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	54
TOTAL CONNECTED					4.86	3.06	3.72					KVA	
TOTAL CONNECTED					41.35	25.50	31.85					AMPS	
TOTAL LOAD					11.64	KVA	32.31					AMPS	
PER NEC ARTICLE 220 FEEDER LOAD					11.64	KVA	32.31					AMPS	

PANELBOARD: MDP (NEW)

BUS AMPS: 600 A
 MAIN SIZE/TYP: M.L.O.
 VOLTS/PHASE: 480/277 Wye, 3PH, 4W
 SERVES: 480V DISTRIBUTION
 LOCATION: ELECTRICAL ROOM
 MOUNTING: SURFACE

SERVICE ENTRANCE RATED 65,000 AIC
 EQUIPMENT GROUND BUS

Load Name	NOTE	WIRE	BKR AMP	PL	A	B	C	PL	BKR AMP	WIRE	NOTE	Load Name		
1														
3 WSPWF-1	--	12	20 A	3	1,164	3,048			3	20 A	12	AIR COMPRESSOR	2	
5														
7					667	667								
9 UH-1	--	12	15 A	3		667	667		3	15 A	12	UH-3	10	
11														
13					667	667								
15 UH-2	--	12	15 A	3		667	667		3	15 A		UH-4	14	
17														
19 SPACE	--	--	--	1	--	--			1	--	--	SPACE	16	
21 SPACE	--	--	--	1	--	--			1	--	--	SPACE	18	
23 SPACE	--	--	--	1	--	--			1	--	--	SPACE	20	
25 SPACE	--	--	--	1	--	--			1	--	--	SPACE	22	
27 SPACE	--	--	--	1	--	--			1	--	--	SPACE	24	
29 SPACE	--	--	--	1	--	--			1	--	--	SPACE	26	
31 SPACE	--	--	--	1	--	--			1	--	--	SPACE	28	
33 SPACE	--	--	--	1	--	--			1	--	--	SPACE	30	
35 SPACE	--	--	--	1	--	--			1	--	--	SPACE	32	
37 SPACE	--	--	--	1	--	--			1	--	--	SPACE	34	
39 SPACE	--	--	--	1	--	--			1	--	--	SPACE	36	
41 SPACE	--	--	--	1	--	--			1	--	--	SPACE	38	
43					23,492	--								
45 XFMR TA	6	--	175 A	3		12,158			1	--	--	SPACE	40	
47														
49					14,731	--			18,069	--	--	SPACE	42	
51 XFMR TC	6	--	100 A	3		12,224						SPACE	44	
53														
TOTAL CONNECTED					45.10	31.26	33.05					KVA		
TOTAL CONNECTED					163.82	112.85	120.30					AMPS		
TOTAL LOAD					109.40	KVA	131.59					AMPS		
PER NEC ARTICLE 220 FEEDER LOAD					116.23	KVA	139.80					AMPS		

- PANELBOARD NOTES**
- CONDUCTORS UPSIZED PER VOLTAGE DROP CALCULATIONS.
 - INSTALL LOCKING DEVICE (LOCK-ON FOR CRITICAL LOAD).
 - INSTALL GFCI BREAKER FOR PERSONNEL PROTECTION (5ma).
 - INSTALL GFCI BREAKER FOR EQUIPMENT PROTECTION (30ma).
 - ROUTE CIRCUIT THROUGH CONTACTOR.
 - REFER TO RISER DIAGRAM FOR WIRE SIZE(S).
 - INSTALL LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE).

PANELBOARD: LC (NEW)

BUS AMPS: 200 A
 MAIN SIZE/TYP: M.C.B.
 VOLTS/PHASE: 208/120 Wye, 3PH, 4W
 SERVES: GENERAL POWER
 LOCATION: SHOP
 MOUNTING: SURFACE

EQUIPMENT GROUND BUS

Load Name	NOTE	WIRE	BKR AMP	PL	A	B	C	PL	BKR AMP	WIRE	NOTE	Load Name	
1 CHARGING STATION	1	10	20 A	1	1,000	1,000			1	20 A	10	1 CHARGING STATION	2
3 CHARGING STATION	1	10	20 A	1		1,000	1,000		1	20 A	10	1 CHARGING STATION	4
5 CHARGING STATION	1	10	20 A	1			1,000	1,000	1	20 A	10	1 CHARGING STATION	6
7 CHARGING STATION	1	10	20 A	1	1,000	1,000			1	20 A	10	1 CHARGING STATION	8
9 CHARGING STATION	1	10	20 A	1		1,000	1,000		1	20 A	10	1 CHARGING STATION	10
11 SITE LIGHTING	1	3	20 A	1					1	20 A	4	1 SITE LIGHTING	12
13 LTS FUEL ISLAND	--	12	20 A	1	256	512			1	20 A	12	1 LTS EXTERIOR	14
15 TIME CLOCK CONTROL	--	12	20 A	1		180	1,600		1	20 A	8	1 PWR EXTERIOR SIGN	16
17 SHOP TV RECEPTS	--	12	20 A	1					1	20 A	--	SPACE	18
19 WATER RECYCLE SYSTEM	--	3	80 A	2	6,444	0			1	--	--	SPACE	20
21						6,444	--		1	--	--	SPACE	22
23							3,744	--	1	--	--	SPACE	24
25 PRESSURE WASHER	--	6	45 A	2	3,744	--			1	--	--	SPACE	26
27 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	28
29 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	30
31 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	32
33 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	34
35 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	36
37 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	38
39 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	40
41 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	42
TOTAL CONNECTED					14.73	12.22	8.14					KVA	
TOTAL CONNECTED					127.99	107.10	67.85					AMPS	
TOTAL LOAD					35.06	KVA	97.30					AMPS	
PER NEC ARTICLE 220 FEEDER LOAD					39.31	KVA	109.13					AMPS	

PANELBOARD: LA (NEW)

BUS AMPS: 400 A
 MAIN SIZE/TYP: M.C.B.
 VOLTS/PHASE: 208/120 Wye, 3PH, 4W
 SERVES: GENERAL POWER
 LOCATION: ELECTRICAL ROOM
 MOUNTING: SURFACE

EQUIPMENT GROUND BUS

Load Name	NOTE	WIRE	BKR AMP	PL	A	B	C	PL	BKR AMP	WIRE	NOTE	Load Name		
1 LTS OFFICES	--	12	20 A	1	705	1,200			1	20 A	12	DISPOSAL - BREAKROOM	2	
3 LTS SHOW ROOM	--	12	20 A	1		319	500		1	20 A	12	F.A.C.P.	4	
5 LTS SHOP - GRP "A"	1	8	20 A	1			543	106	1	30 A	12	RESTROOM EXHAUST FANS	6	
7 LTS SHOP - GRP "B"	1	10	20 A	1	843	2,500			1	30 A	8	WATER HEATER WH-1	8	
9 LTS SHOP - GRP "C"	1	10	20 A	1		717	125		1	20 A	12	RECIRC PUMP	10	
11 LTS WASH BAY	1	10	20 A	1					2	60 A	4	AHU-1	12	
13														
15 WELDER	1	6	40 A	2	3,266	5,200			2	60 A	4	1 AHU-1	14	
17						3,266	2,715							
19 WELDER	--	8	40 A	2	3,266	0			2	45 A	6	1 CU-1	16	
21														
23 SPARE	--	--	20 A	1		0	0		1	20 A	--	SPACE	18	
25 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	20	
27 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	22	
29 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	24	
31														
33 PANELBOARD LB	6	--	200 A	3	4,860	--	3,060		1	--	--	SPACE	26	
35														
37					1,613	--	3,720		1	--	--	SPACE	28	
39 PANELBOARD LF	6	--	100 A	3		1,457	--		1	--	--	SPACE	30	
41														
TOTAL CONNECTED					23.49	12.16	18.07					KVA		
TOTAL CONNECTED					203.35	101.31	158.15					AMPS		
TOTAL LOAD					53.72	KVA	149.11					AMPS		
PER NEC ARTICLE 220 FEEDER LOAD					55.46	KVA	153.94					AMPS		

PANELBOARD: LF (NEW)

BUS AMPS: 100 A
 MAIN SIZE/TYP: MCB (SHUNT TRIP)
 VOLTS/PHASE: 208/120 Wye, 3PH, 4W
 SERVES: FUEL STATION
 LOCATION: BACK OF BUILDING
 MOUNTING: SURFACE (NEMA 3R)

NEMA 3R
 EQUIPMENT GROUND BUS

Load Name	NOTE	WIRE	BKR AMP	PL	A	B	C	PL	BKR AMP	WIRE	NOTE	Load Name	
1 LTS/RECPT	1	10	20 A	1	360	--			1	--	--	SPACE	2
3 HEATER	1	10	20 A	2		271	--		1	--	--	SPACE	4
5 GASOLINE	1	10	20 A	1	660	--			1	--	--	SPACE	6
7 CLEAR DIESEL	1	10	20 A	2		593	--		1	--	--	SPACE	8
9 DYED DIESEL	1	10	20 A	2	593	--			1	--	--	SPACE	10
11									1	--	--	SPACE	12
13									1	--	--	SPACE	14
15						593	--		1	--	--	SPACE	16
17 CONTACTOR CONTROL	--	12	20 A	1			180	--	1	--	--	SPACE	18
19 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	20
21 SPARE	--	--	--	1	--	--	--		1	--	--	SPACE	22
23 SHUNT TRIP	--	12	20 A	1			180	--	1	--	--	SPACE	24
TOTAL CONNECTED					1.61	1.46	1.22					KVA	
TOTAL CONNECTED					13.74	12.44	10.20					AMPS	

THIS DRAWING HAS BEEN PREPARED FOR THE USE OF THE ARCHITECT AND SHALL BE USED IN CONJUNCTION WITH THE BLUE PRINTS AND SPECIFICATIONS. IT IS THE RESPONSIBILITY OF THE ARCHITECT TO VERIFY THE ACCURACY OF THE INFORMATION PROVIDED AND TO OBTAIN NECESSARY PERMITS AND APPROVALS. THE ARCHITECT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THIS DRAWING AND SHALL NOT BE HELD RESPONSIBLE FOR ANY REPRODUCTION OR MODIFICATION THEREOF WITHOUT THE WRITTEN CONSENT OF pb2 architecture + engineering.

EQUIPMENT SHARE GROUND-UP
US HWY 90
LAKE CITY, FL 32055

ISSUE BLOCK

NO.	DATE	DESCRIPTION
01	08.11.2023	OTD
02	11.10.2023	PR1 PLAN REV. 1
03	09.24.2024	PR2 PLAN REV. 2
04	09.24.2024	PR4 PLAN REV. 4

CHECKED BY: TJ
DRAWN BY: DR
DOCUMENT DATE: 08.11.2023



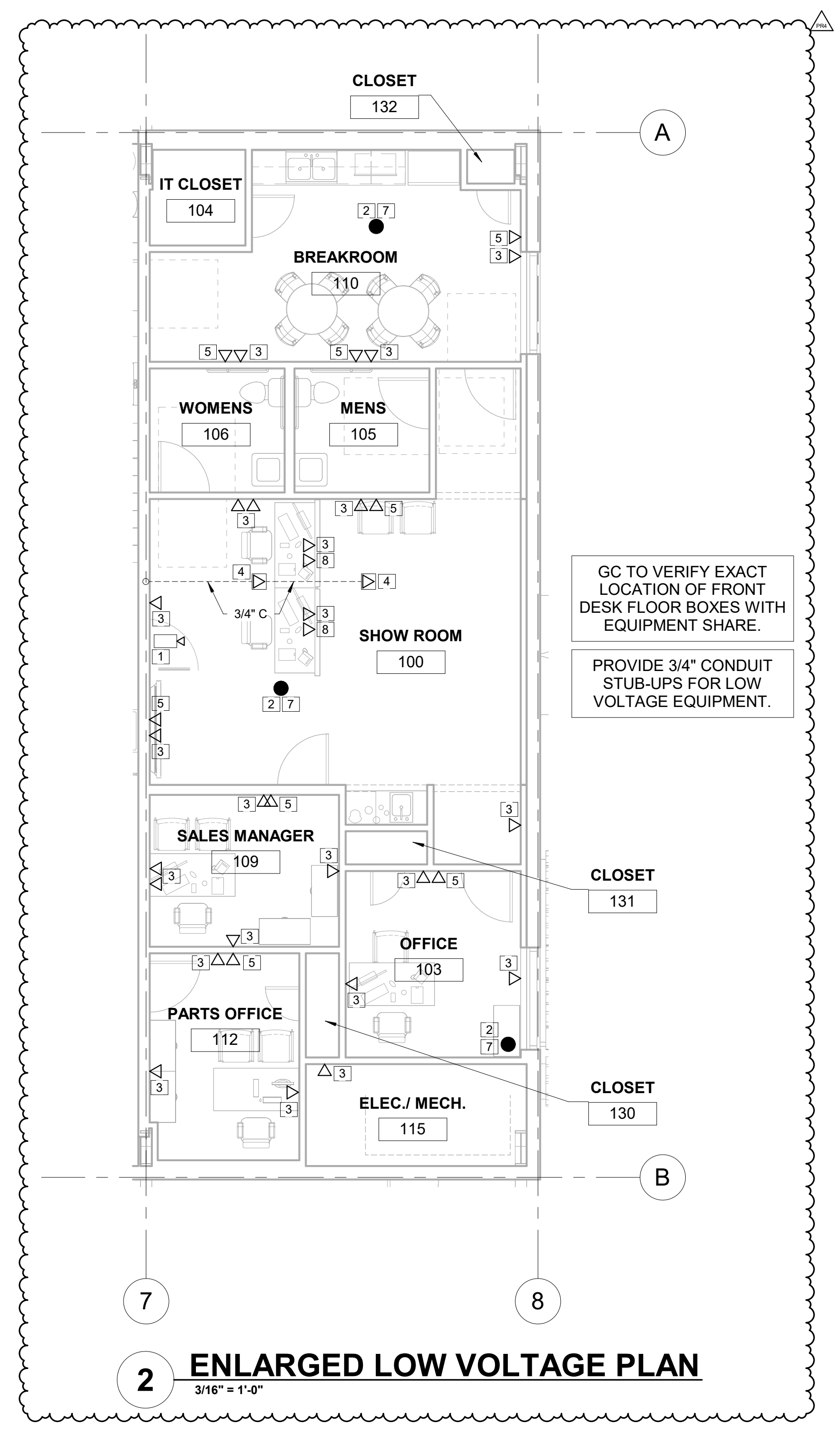
DN: CN=Keith A. Williams, dnQualifier=A01410, DO000018F3F51F75, E0001697A, C=US, o=pb2 architecture + engineering, C=US
Reason: This item has been digitally signed and sealed by Keith A. Williams, P.E., on 12/06/2024 using a digital signature. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.
Date: 2024.12.06 09:58:42-0500

DOCUMENTS THAT DO NOT HAVE THE ARCHITECT OR ENGINEER OF RECORD SEAL AND SIGNATURE SHALL BE CONSIDERED NOT FOR CONSTRUCTION

ELECTRICAL LOW VOLTAGE PLAN

SHEET: **ELV1**

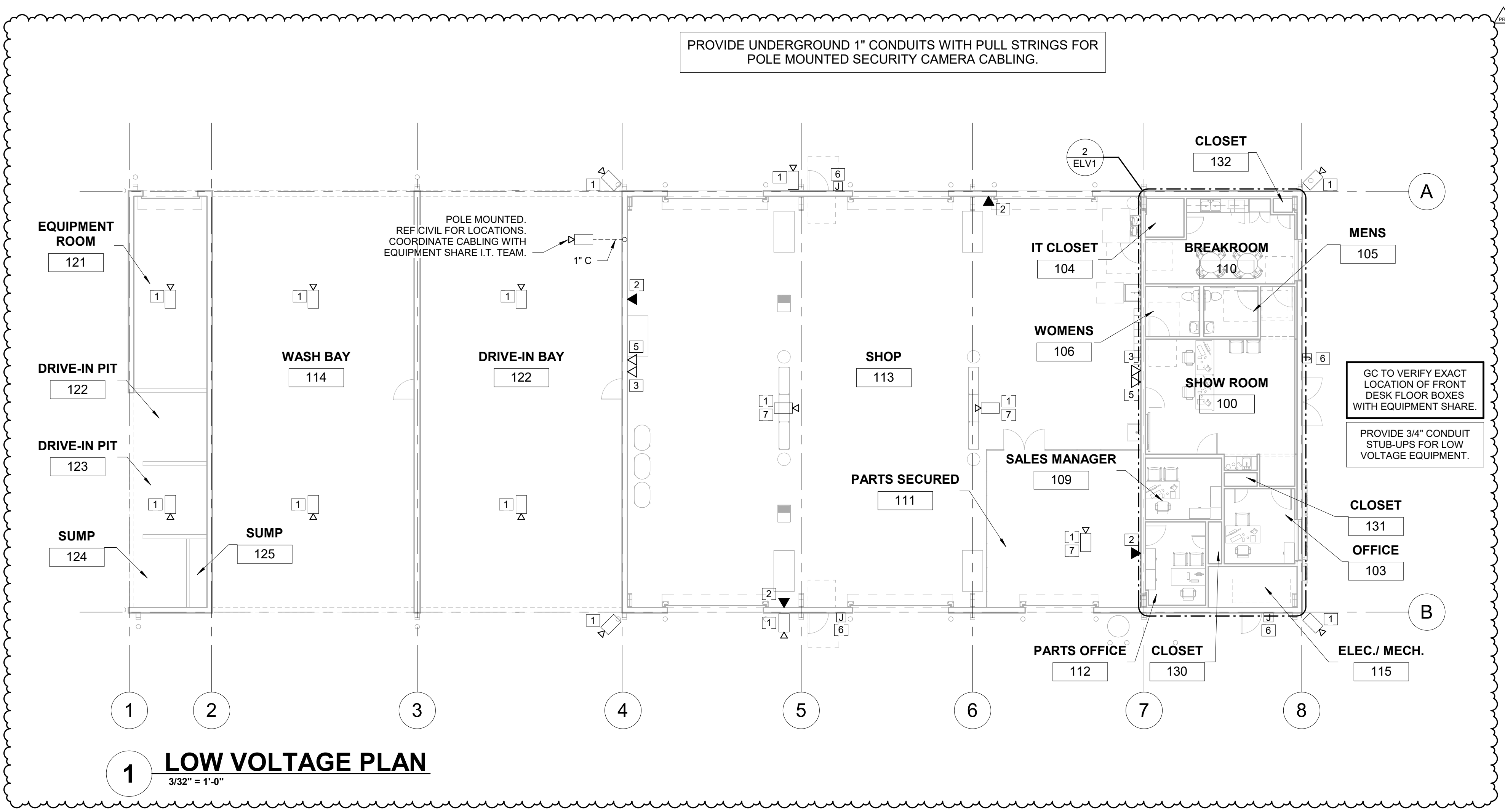
ELECTRICAL KEYNOTES		LOW VOLTAGE GENERAL NOTES
#	DESCRIPTION	
1	CAT 6 RJ45 (GREEN CABLE FOR SECURITY CAMERAS), PINOUT T-568B. EXTERIOR SECURITY CAMERAS TO BE MOUNTED AT +9'-0" A.F.F. SECURITY CAMERAS TO BE WALL MOUNTED UNLESS NOTED OTHERWISE.	1. ALL ETHERNET CABLES AND ALL ETHERNET PATCH-CABLES WILL BE FROM THE MANUFACTURER, VERTICAL CABLE, AND WILL COMPLY WITH THEIR CAT6 UTP STANDARD.
2	CAT 6 RJ45 (ORANGE CABLE FOR APs), AP DEVICES TO BE WALL MOUNTED AT +9'-0" A.F.F. UNLESS NOTED OTHERWISE, PINOUT T-568B.	A. #23 AWG. SOLID COPPER WIRE, 550MHZ, CMR (RISER-RATED), NOISE REDUCING CROSS SEPARATOR).
3	CAT 6 RJ45 (BLUE CABLE FOR DATA PORTS), PINOUT T-568B. DATA PORTS TO BE MOUNTED AT +18" A.F.F.	B. ALL ETHERNET CABLES, KEYSTONES, AND PATCH-CABLES SHALL BE COLOR COORDINATED BASED ON DEVICE TYPE.
4	CAT 6 RJ45 (BLUE CABLE FOR FLOOR BOX DATA PORTS), PINOUT T-568B.	C. GREEN TO BE USED FOR CAMERAS AND CAMERA-RELATED DEVICES.
5	CAT 6 RJ45 (BLUE CABLE FOR TV PORTS), TV PORTS TO BE MOUNTED AT +60" A.F.F.	D. ORANGE TO BE USED FOR CRITICAL CONNECTIONS SUCH AS, UPLINKS, ACCESS POINTS, WAN CONNECTIONS, ETC.
6	CONDUIT THROUGH WALL FOR DOOR ACCESS.	E. BLUE TO BE USED FOR PCs, PHONES, PRINTERS, TVs, AND OTHER PERIPHERALS.
7	DEVICE TO BE CEILING MOUNTED.	2. SERVICE LOOPS SHALL BE PLACED AT EACH END BEFORE CABLING REACHES THE TERMINATION POINTS.
8	DATA PORTS TO BE MOUNTED INSIDE OF KIOSK, ROUTE CONDUIT CONCEALED WITHIN WALL AND ALONG BACK SIDE OF KIOSK SHELF AS REQUIRED TO SERVE DATA PORTS. COORDINATED EXACT PLACEMENT WITH OWNER PRIOR TO INSTALLATION.	A. THE SERVICE LOOP AT THE LT. RACK SHALL BE APPROXIMATELY 6'-0" IN LENGTH.
		B. THE SERVICE LOOP AT THE DEVICES SHALL BE APPROXIMATELY 3'-0" IN LENGTH.
		3. WHERE ALLOWED BY AHJ, INSTALL 3/4" BLUE, NONMETALLIC, FLEXIBLE TUBING SHALL BE INSTALLED FROM EACH LOW VOLTAGE RECEPTACLE THROUGH THE STUD BAY UP INTO THE CEILING.
		4. INSTALL EMT CONDUIT AND BUSHINGS AS NECESSARY TO PROTECT CABLING RUN THROUGH CEILINGS, WALLS, OR ANY OTHER SPACE REQUIRING PROTECTION OF CABLING.
		5. RJ45 CONNECTORS WILL WORK WITH CAT6 AND CAT6A CABLES. BE INTERNALLY GROUNDED, PROVIDE STRAIN RELIEF, AND SHIELDING WHERE NECESSARY.
		6. ALL ETHERNET TERMINATIONS WILL USE THE EIA/TIA 568B STANDARD.
		7. ALL VISIBLE CABLES WITHIN TERMINATION CABINET WILL BE COMBED AND WELL-MANAGED USING VELCO STRAPS, SPACED 12" APART. NO ZIP TIES ARE ALLOWED, EXCEPT FOR THOSE THAT SECURE THE CABLES TO THE PATCH PANEL STRAIN-RELIEF BRACKET INSIDE RACKS.



GC TO VERIFY EXACT LOCATION OF FRONT DESK FLOOR BOXES WITH EQUIPMENT SHARE.

PROVIDE 3/4" CONDUIT STUB-UPS FOR LOW VOLTAGE EQUIPMENT.

E.C. TO PROVIDE ALL CONDUIT, SLEEVING, AND LOW-VOLTAGE CABLING FOR ALL LOW VOLTAGE SYSTEMS.



PROVIDE UNDERGROUND 1" CONDUITS WITH PULL STRINGS FOR POLE MOUNTED SECURITY CAMERA CABLING.

GC TO VERIFY EXACT LOCATION OF FRONT DESK FLOOR BOXES WITH EQUIPMENT SHARE.

PROVIDE 3/4" CONDUIT STUB-UPS FOR LOW VOLTAGE EQUIPMENT.

SHEET: **ELV1**