	LIGHTING	
	2'x4' LED LIGHT FIXTURE, CEILING MOUNTED.	f
	2'x4' LED LIGHT FIXTURE, CEILING MOUNTED, CONNECTED TO EMERGENCY SYSTEM BRANCH CIRCUIT.	f, k
	1'x4' LED LIGHT FIXTURE, CEILING MOUNTED.	f
	1'x4' LED LIGHT FIXTURE, CEILING MOUNTED, CONNECTED TO EMERGENCY SYSTEM BRANCH CIRCUIT.	f, k
	1'x4' LED LIGHT FIXTURE, WALL MOUNTED.	f
	1'x4' LED LIGHT FIXTURE, WALL MOUNTED, CONNECTED TO EMERGENCY SYSTEM BRANCH CIRCUIT.	f, k
0 0	LED STRIP LIGHT FIXTURE, SUSPENDED.	f
0	LED STRIP LIGHT FIXTURE, SUSPENDED, CONNECTED TO EMERGENCY SYSTEM BRANCH CIRCUIT.	f, k
0	DOWNLIGHT FIXTURE WITH CEILING OUTLET BOX.	f
•	DOWNLIGHT FIXTURE WITH CEILING OUTLET BOX, SURFACE MOUNTED, CONNECTED TO EMERGENCY SYSTEM BRANCH CIRCUIT.	f, k
<u> </u>	EXIT SIGN LIGHT FIXTURE WITH CEILING OUTLET BOX AND EMERGENCY BATTERY. SHADING INDICATES NUMBER OF FACES AND ORIENTATION, ARROWS. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHES (OR TO LOCAL EMERGENCY LIGHTING CIRCUIT WHEN AVAILABLE)	f
\$ <sub>M</sub>	OUTLET BOX WITH 20 AMP, 1 POLE, MANUAL MOTOR CONTROLLER WITHOUT OVERLOADS (MSS). RATED 1 HP @ 120V; REFER TO EQUIPMENT FEEDER SCHEDULE.	f
\$ <sub>VS</sub>	SINGLE PÖLE DIMMINĞ VACANCY SENSOR SWITCH WITH WALL ÖUTLET BOX. DUAL TECHNOLOGY WITH PASSIVE INFRARED/MICROPHONIC SENSING. MANUFACTURED BY SENSOR SWITCH MODEL #WSX PDT SA - OR APPROVED EQUAL. LOAD RATING 800W @120V	b, f
\$ <sub>a</sub>	LOW VOLTAGE ON/OFF/DIMMING SWITCH, WITH WALL OUTLET BOX. BY ACUITY CONTROLS, NLIGHT-PODM SERIES. FUNCTION AND NUMBER OF CHANNELS AS NOTED ON PLANS. CONNECTS TO NLIGHT LIGHTING CONTROL SYSTEM VIA CAT 5 CABLE. ("a" INDICATES SWITCH-LEG)	b, f
DS	LOW VOLTAGE OCCUPANCY SENSOR SWITCH, CEILING MOUNTED. DUAL TECHNOLOGY WITH PASSIVE INFRARED/MICROPHONIC SENSING. BY ACUITY CONTROLS nLIGHT #NCM PDT 10 U.O.N. CONNECTS WITH NLIGHT LIGHTING CONTROL SYSTEM VIA CAT 5 CABLE.	
DS	LOW VOLTAGE COMBINATION DAYLIGHT/OCCUPANCY SENSOR SWITCH, CEILING MOUNTED. DUAL TECHNOLOGY WITH PASSIVE INFRARED/MICROPHONIC AND DAYLIGHT. BY ACUITY CONTROLS nLIGHT #NCM PDT 10 ADCX, U.O.N. CONNECTS WITH nLIGHT LIGHTING CONTROL SYSTEM VIA CAT 5 CABLE.	
PC	PHOTOCELL (MATCH COIL VOLTAGE AS REQUIRED)	

	POWER	
Φ	DUPLEX RECEPTACLE, 20 AMP, WITH FLUSH WALL OUTLET BOX.	a, f
φс	DUPLEX RECEPTACLE CONNECTED TO ACUITY CONTROLS SWITCHING PACK nPP16, 20 AMP, WITH FLUSH WALL OUTLET BOX.	a, f
φτν	DUPLEX RECEPTACLE, 20 AMP, WITH FLUSH WALL OUTLET BOX.	a, n
#	DOUBLE DUPLEX RECEPTACLE, 20 AMPS EACH, WITH TWO-GANG FLUSH WALL OUTLET BOX.	a, f
ФВ	GFI DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER BACKSPLASH, 20 AMP, WITH FLUSH WALL OUTLET BOX.	f
₽wpg	WEATHERPROOF GFI DUPLEX RECEPTACLE, 20 AMP, WITH FLUSH WALL OUTLET BOX AND WEATHERPROOF IN-USE COVER.	a, f
₽ewc	GFI DUPLEX RECEPTACLE, 20 AMP, WITH WALL OUTLET BOX FOR ELECTRIC WATER COOLER. COORDINATE CONCEALMENT WITH EWC INSTALLER FOR MOUNTING REQUIREMENTS.	f
$\blacksquare \blacksquare \blacksquare$	CAST IRON FULLY ADJUSTABLE THREE-GANG FLOOR OUTLET BOX WITH (2) 20 AMP DUPLEX RECEPTACLES AND (1) TELECOMMUNICATIONS BLANK OUTLET WITH (1) 1"C. TO TTB/TTC (UNLESS OTHERWISE NOTED). PROVIDE CARPET OR TILE FLANGE. (PROVIDE SPECIAL RECEPTACLES, I.E. ISOLATED GROUND TYPE WHERE NOTED)	d, f
P	POWER FURNITURE BASE FEED WITH JUNCTION BOX. FLEX CONNECT TO FURNITURE SYSTEM WIREWAY. FIELD VERIFY EXACT CONNECTION POINT WITH FURNITURE VENDOR.	a, f
□ <del>)</del> EPO	FLUSH SHUNT-TRIP BUTTON, LOCATE AND LABEL INACCORDANCE WITH A.H.J., MOUNTED 54" TO TOP, UNLESS OTHERWISE NOTED.	f
	DISCONNECT SWITCH. REFER TO EQUIPMENT FEEDER SCHEDULE FOR REQUIREMENTS (I.E. SIZE, FUSED, NON-FUSED, ETC.)	h, j
	120/208V BRANCH CIRCUIT PANELBOARD, SURFACE MOUNTED	h, j
SPD	SURGE PROTECTION DEVICE	
	BRANCH CIRCUIT CONDUIT CONCEALED ABOVE CEILING OR IN WALL. MINIMUM TWO CONDUCTORS PLUS GROUND. REFER TO SPECIFICATIONS AND EQUIPMENT FEEDER SCHEDULE FOR CONDUCTOR REQUIREMENTS. ARROWS INDICATE CIRCUIT CONNECTIONS AND HOMERUNS TO PANEL AS INDICATED ON PLANS. TYPICAL FOR ALL RACEWAY TYPES, U.O.N.	
	BRANCH CIRCUIT CONDUIT CONCEALED BELOW SLAB OR UNDERGROUND	
	CONDUIT RUN UP	
-	CONDUIT RUN DOWN	
C	CONTROL AND/OR POWER EQUIPMENT CONNECTION.	j
OH	SURFACE MOUNTED JUNCTION BOX AND BLANK PLATE, WALL MTD. OR MTD. TO CEILING/STRUCTURE AS INDICATED.	e, f, h, i

	SECURITY AND ACCESS CONTROL	
CR	CARD ACCESS READER, FLUSH MOUNTED. WALL OUTLET BOX, FLUSH MOUNTED WITH BLANK PLATE. PROVIDE MINIMUM 1"C TO SECURITY TERMINAL CONDUIT	b
DL	ELECTRIC DOOR STRIKEWALL OUTLET BOX, FLUSH MOUNTED WITH BLANK PLATE. PROVIDE MINIMUM 1"C TO SECURITY TERMINAL CONDUIT	d
ML	MAGNETIC DOOR STRIKE WALL OUTLET BOX, FLUSH MOUNTED WITH BLANK PLATE. PROVIDE MINIMUM 1"C TO SECURITY TERMINAL CONDUIT	d
■RTE	"REQUEST-TO-EXIT" DOOR RELEASE SWITCH WALL OUTLET BOX, FLUSH MOUNTED WITH BLANK PLATE. PROVIDE MINIMUM 1"C TO SECURITY TERMINAL CONDUIT	b
DC	SECURITY DOOR CONTACT WALL OUTLET BOX, FLUSH MOUNTED WITH BLANK PLATE. PROVIDE MINIMUM 1"C TO SECURITY TERMINAL CONDUIT	d
MD	SECURITY MOTION DETECTOR. WALL OUTLET BOX, FLUSH MOUNTED WITH BLANK PLATE. PROVIDE MINIMUM 1"C TO SECURITY TERMINAL CONDUIT	d
SQTC	SECURITY TERMINAL CABINET. SURFACE MOUNTED, 28 INCH STRUCTURED MEDIA ENCLOSURE WITH HINGED LOCKABLE COVER	n
	VIDEO SURVEILLANCE (CCTV) CAMERA. CAMERA AND WIRING PROVIDED BY OTHERS. UNLESS OTHERWISE NOTED, PROVIDE WALL MOUNTED JUNCTION BOX AND ROUTE EMPTY 1"C., WITH PULL STRING, TO COMMUNICATIONS RACK IN RM 205.	d, e

	COMMUNICATION AND DATA	
4	COMBINATION TELEPHONE/DATA WALL OUTLET BOX, FLUSH MOUNTED WITH BLANK PLATE. PROVIDE (2) MINIMUM 1"C TO CEILING SPACE, U.O.N.	а
©	COMMUNICATION FURNITURE BASE FEED WITH 2-GANG JUNCTION BOX. PROVIDE (2) 1-1/4" EMPTY CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE. FLEX CONNECT TO FURNITURE SYSTEM WIREWAY. FIELD VERIFY EXACT CONNECTION POINT WITH FURNITURE VENDOR.	а
∇AP	WIRELESS ACCESS POINT CEILING BOX, FLUSH MOUNTED WITH BLANK PLATE.	а
TTB	TELEPHONE TERMINATION BOARD (OR SYSTEMS TERMINAL BOARD AS NOTED). FIRE RETARDANT TREATED PLYWOOD, 3/4" THICK x 8'-0" HEIGHT x WIDTH AS SHOWN ON PLANS. PAINT TO MATCH WALL WITH (2) COATS OF FIRE RETARDANT PAINT.	
$\overline{\mathbf{V}}$	COMBINATION DATA AND TELEVISION OUTLET, FLUSH MOUNT, STUB INTO CEILING SPACE WITH (2) 1"C.	

	FIRE ALARM	
F	MANUAL FIRE ALARM PULL STATION.	b
⊠◀	FIRE ALARM HORN/STROBE COMBINATION DEVICE. (15/75 CANDELA, U.O.N.)	I, m
HX	FIRE ALARM STROBE. (15/75 CANDELA, U.O.N.)	I, m
<b>②</b>	SMOKE DETECTOR. CEILING SURFACE MOUNTED.	
<b>②</b>	DUCT MOUNTED SMOKE DETECTOR. (S = SUPPLY; R = RETURN)	
<b>②</b> E	SMOKE DETECTOR FOR ELEVATOR RECALL. CEILING SURFACE MOUNTED.	
$\bullet_{R}$	OUTPUT CONTROL RELAY	
●AH R	OUTPUT CONTROL RELAY "AIR HANDLING CONTROL"	
LB	FIRE DEPARTMENT LOCK BOX (KNOX BOX), WEATHER-PROOF. LOCATE PER AHJ.	
FACP	FIRE ALARM CONTROL PANEL	n
FATC	FIRE ALARM TERMINAL CABINET	n

# **SYMBOL LEGEND NOTES:**

- 1. THE COLOR OF ALL DEVICES SHALL BE SELECTED BY THE ARCHITECT. COVER PLATES SHALL BE #302 SMOOTH
- STAINLESS STEEL, UNLESS OTHERWISE NOTED. 2. SCREENED ELECTRICAL ITEM DENOTES EXISTING.
- 3. "R" BY DEVICE DENOTES EXISTING TO BE REMOVED COMPLETELY. 4. "H" BY DEVICE DENOTES DEVICE TO BE MOUNTED HORIZONTALLY.
- 5. ALL DIMENSIONS INDICATED ARE TO THE BOTTOM OF FIXTURE, OUTLET, OR EQUIPMENT AND SHALL BE THE DIMENSIONS USED UNLESS INDICATED OTHERWISE ON THE DRAWINGS. DIMENSIONS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS ARE TO THE BOTTOM OF THE FIXTURE. OUTLET. OR EQUIPMENT UNLESS INDICATED OTHERWISE. ALL MOUNTING HEIGHTS SHALL COMPLY WITH ADA REQUIREMENTS. VERIFY AND COORDINATE THE EXACT HEIGHT AND LOCATION OF ALL FIXTURES, OUTLETS, AND EQUIPMENT WITH ALL DOCUMENTS AND DISCIPLINES (I.E., ARCHITECTURAL, STRUCTURAL, HVAC, PLUMBING, FIRE PROTECTION,
- KITCHEN EQUIPMENT, MILLWORK, ETC.) PRIOR TO ROUGH-IN; ADJUST TO MEET ALL REQUIREMENTS. 6. ALL SYMBOLS INDICATED IN THIS LEGEND MAY NOT BE USED ON THE PLANS.
- ALL WIRING DEVICES SHALL BE PROVIDED WITH A GROUNDING TERMINAL SCREW.
- 8. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. 9. U.O.N. = UNLESS OTHERWISE NOTED.
- 10. A.H.J. = AUTHORITY HAVING JURISDICTION.
- 11. A.F.F. = ABOVE FINISHED FLOOR
- 12. ELECTRICAL CONTRACTOR TO PROVIDE PULL STRINGS IN ALL CONDUIT(S).

## **REMARKS:**

- a. MOUNTED 16" ABOVE FINISHED FLOOR TO THE BOTTOM.
- b. MOUNTED 44" ABOVE FINISHED FLOOR TO THE BOTTOM. c. MOUNTED 50" ABOVE FINISHED FLOOR TO THE BOTTOM.
- d. OUTLET BOX SHALL BE SIZED PER SYSTEM INSTALLERS REQUIREMENTS.
- e. SUPPORT OUTLET BOX FROM STRUCTURE WITH (1) 3/8" ALL THREADS MINIMUM. BOXES LARGER THAN 25" SQUARE INCHES SHALL BE SUPPORTED WITH (2) 3/8" ALL THREADS MINIMUM.
- f. JUNCTION/OUTLET BOX SHALL BE SIZED AS REQUIRED FOR CONDUCTOR/DEVICES FILL PER N.E.C. THREADED CONDUIT HUBS SHALL BE SIZED AND CONFIGURED AS REQUIRED FOR APPLICATION.
- n. PROVIDE KINDORF MOUNTING RACK FOR FREE STANDING APPLICATIONS. KINDORF SHALL BE PAINTED FOR EXTERIOR APPLICATIONS.
- WHEN SURFACE JUNCTION BOX SYMBOL IS COMBINED WITH DEVICE SYMBOL, PROVIDE APPROPRIATE SURFACE PLATE FOR OUTLET APPLICATION.
- MAINTAIN WORKING CLEARANCES IN STRICT ACCORDANCE WITH N.E.C. COORDINATE EXACT LOCATION OF EQUIPMENT WITH ALL DISCIPLINES (I.E. ARCHITECTURAL, STRUCTURAL, HVAC, PLUMBING, FIRE PROTECTION, KITCHEN EQUIPMENT, MILLWORK, ETC.) PRIOR TO ROUGH-IN TO MAINTAIN CLEARANCES.
- k. "NL" INDICATES FIXTURE CONNECTED AHEAD OF ALL SWITCHES FOR 24 HOUR NIGHTLIGHT OPERATION.
- I. MOUNTED 80" ABOVE FINISHED FLOOR TO BOTTOM. m. ALL STROBES SHALL BE ADJUSTABLE INTENSITY TYPE SET AT 75cd UNLESS OTHERWISE NOTED.
- n. MOUNTED 72" ABOVE FINISHED FLOOR TO THE TOP.

### **GENERAL NOTES:**

- 1) ALL 120V, 20A CIRCUIT HOMERUNS OVER 50FT. SHALL BE #10 CU. MINIMUM, UNLESS NOTED OTHERWISE.
- 2) ALL 120V, 20A CIRCUIT HOMERUNS OVER 150FT. SHALL BE #8 CU. MINIMUM, UNLESS NOTED OTHERWISE.
- 3) ALL BRANCH CIRCUIT CONDUCTORS WILL BE SIZED PER NEC MINIMUM. THE MINIMUM ALLOWABLE BRANCH CIRCUIT CONDUCTOR SIZE IS #12 AWG COPPER. INCREASE CONDUCTOR SIZE FOR APPLICATION PER NEC AND AS NOTED ON THE PLANS.
- 4) CONDUCTOR SIZES INDICATED ON CIRCUIT HOMERUNS OR IN SCHEDULES SHALL BE INSTALLED OVER THE ENTIRE LENGTH OF THE CIRCUIT UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 5) UP TO THREE PHASE CONDUCTORS, CORRESPONDING SWITCHLEGS AND NEUTRALS ARE ALLOWED IN THE SAME RACEWAY UNLESS INDICATED
- OTHERWISE ON THE DRAWINGS. DO NOT COMBINE HOMERUNS.
- 6) PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS AND BRANCH CIRCUITS.
- 7) COMPLY WITH ARTICLE 210 OF THE NEC. PROVIDE A DEDICATED NEUTRAL FOR ALL 120V AND 277V CIRCUITS OR PROVIDE C.B. HANDLE TIES TO CONNECT POLES SERVING MULTI-WIRE CIRCUITS.
- 8) COORDINATE EXACT LOCATION OF LIGHTING FIXTURES IN MECH. ROOMS/SPACES WITH DUCTWORK INSTALLER PRIOR TO ROUGH-IN. LOCATE BELOW DUCTWORK (8'-0" AFF MINIMUM) CENTERED IN ROOM AS MUCH AS POSSIBLE.
- 9) COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS, APPROVED SHOP DRAWINGS AND MILLWORK INSTALLER PRIOR TO ROUGH-IN.
- 10) VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL INSTALLER PRIOR TO ROUGH-IN.
- 11) REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES.
- 12) ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRINGS IN THEM.
- 13) ALL COMPUTER RECEPTACLE CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL FOR EACH PHASE CONDUCTOR.
- 14) COORDINATE THE REQUIRED SIZE OF ALL CIRCUIT BREAKERS FEEDING EQUIPMENT. (I.E. MOTORS, HVAC EQUIPMENT, SPECIAL PURPOSE OUTLETS. OWNER FURNISHED EQUIPMENT ETC. ) WITH APPROVED EQUIPMENT SHOP DRAWINGS AND OWNER REPRESENTATIVES PRIOR TO ORDERING PANELBOARDS. BREAKERS SHALL BE SIZED PER THE NEC, THE EQUIPMENT NAME PLATE AND MANUFACTURERS RECOMMENDATIONS.
- 15) THE POWER COMPANY SHALL BE CONTACTED WITHIN 10 DAYS OF THE AWARD OF THE CONTRACT BY THE CONTRACTOR TO VERIFY THE ACTUAL AVAILABLE SHORT CIRCUIT FAULT CURRENT (SCC) AT THE TRANSFORMER SECONDARY BUSHINGS. THE CONTRACTOR SHALL PROVIDE ELECTRICAL DISTRIBUTION AND UTILIZATION EQUIPMENT AND PANELBOARDS WHICH HAVE AIC/WITHSTAND RATINGS GREATER THAN THE AVAILABLE SSC AT EACH POINT IN THE ELECTRICAL SYSTEM.
- 16) CONTRACTOR SHALL INCLUDE IN HIS BID THE TRANSPORT AND DISPOSAL OR RECYCLING OF ALL WASTE MATERIALS GENERATED BY THIS PROJECT IN ACCORDANCE WITH ALL RULES, REGULATIONS AND GUIDELINES APPLICABLE.
  - A) CONTRACTOR SHALL COMPLY FULLY WITH FLORIDA STATUTE 403.7186 REGARDING MERCURY CONTAINING DEVICES AND LAMPS.
  - B) LAMPS, BALLASTS AND OTHER MATERIALS SHALL BE TRANSPORTED AND DISPOSED OF IN ACCORDANCE WITH ALL DEP AND EPA GUIDELINES.
  - C) THE CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION THAT ALL MATERIALS WHERE RECYCLED OR DISPOSED OF PROPERLY PER THE GUIDE LINE NOTED ABOVE.
- 17) EXISTING CONDITIONS AND UTILITIES INDICATED ARE TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS, VARIOUS SURVEYS AND FIELD INVESTIGATIONS. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AND/OR BURIAL DEPTHS AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT/ENGINEER MAY BE NECESSARY AND IT IS INTENDED THAT SUCH DEVIATIONS SHALL BE CONSIDERED A PART OF THIS CONTRACT. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. THIS CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL SITE UTILITIES, ETC., PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.
- 18) LOCATE ALL EXISTING UTILITIES AND PROTECT THEM FROM DAMAGE.
- 19) ALL CONDUIT TO BE CONCEALED UNLESS IMPOSSIBLE DUE TO EXISTING CONDITIONS (I.E. EXPOSED STRUCTURAL CEILINGS, BUILDING EXTERIOR WALLS). CONCEAL ALL CONDUITS ABOVE CEILINGS OR WITHIN WALLS AND COUNTERS. A) ALL NEW DEVICES TO BE FLUSH MOUNTED UNLESS SPECIFICALLY NOTED OTHERWISE.
- B) INSTALL FLEXIBLE CONDUIT DOWN EXISTING WALLS TO NEW FLUSH OUTLETS. (IF EXISTING WALLS DO NOT CONTAIN HOLLOW VERTICAL CAVITIES AND IT IS NOT FEASIBLE TO CONCEAL THE CONDUIT THEN EXPOSED WIREMOLD PAINTED TO MATCH THE WALL SHALL BE USED).
- 20) EXISTING ELECTRICAL SERVICE: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION.
- 21) PANELBOARDS: CLEAN EXPOSED SURFACES AND CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AND PROVIDE CLOSURE PLATES FOR VACANT POSITIONS. PROVIDE TYPED CIRCUIT DIRECTORY SHOWING REVISED CIRCUITING ARRANGEMENT
- MEET THE REQUIREMENTS OF NFPA 72 SECTION 24.5.2.2.

22) A RADIO COVERAGE SURVEY SHALL BE CONDUCTED PRIOR TO, DURING, AND POST CONSTRUCTION TO ENSURE THE TWO-WAY RADIO COVERAGE

\( 23 ) THE BUILDING THAT CANNOT SUPPORT THE REQUIRED LEVEL OF RADIO COVERAGE SHALL BE EQUIPPED WITH A DISTRIBUTED ANTENNA SYSTEM
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\( \) (DAS) WITH FCC-CERTIFIED SIGNAL BOOSTERS IN ORDER TO ACHIEVE THE REQUIRED ADEQUATE RADIO COVERAGE.

TYPE	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	VOLTS	INPUT WATTS	SOURCE	DIMMING	COMMENTS
LS	LINEAR DIRECT-INDIRECT SUSPENDED FIXTURE	BIRCHWOOD	CHL-LED-475-HLO-SLO-35-X-CRX-SC- FW-FW-XXX-D1-CSS-XX-2CKT	SUSPENDED	120	72	LED, 3500K	0-10V	DUAL CIRCUIT WIRING
М	ELEVATOR PIT LIGHT	BEGHELLI	BS100LED-4-HT-MO-WT40-120-277V-SM	SURFACE	120	60	LED, 4000K		WIRED TO INVERTER
PC	DECORATIVE PENDANT	DELRAY	6724-S-W35-CR-D	SUSPENDED	120	93	LED, 3500K	0-10V	REMOTE DRIVER NO SUBSTITUTION
PH	SUSPENDED LED HIGH BAY FIXTURE	BEGHELLI	BS730LED-WT35-WBD-16ACT-AC-120-277V	SUSPENDED	120	35	LED, 3500K	0-10V	
R1	RECESSED 4" DOWNLIGHT	LIGHOLIER	4R-N / Z4RDL-XX-835-W-O-CD-Z10-U	RECESSED	120	20	LED, 3500K	0-10V	
R2	2X4 RECESSED PERFORMANCE FULL LENSE	DAY-BRITE	2-CA-G-40B-835-4-DS-UNV-DIM-DSC	RECESSED	120	34	LED, 3500K	0-10V	
RD	SEMI-RECESSED DECO DOWNLIGHT	DELRAY	KLS31-2-W35-D-XXX	RECESSED	120	22	LED, 3500K		NO SUBSTITUTIONS
S2	2' SURFACE LENSED STRIP LIGHT	DAY-BRITE	FSS-2-20L-835-UNV-DIM	WALL	120	34	LED, 45W, 3500K		
S4	4' SURFACE LENSED STRIP LIGHT	DAY-BRITE	FSS-4-55L-835-UNV-DIM-FSTH	SUSPENDED	120	34	LED, 45W, 3500K		
SG	4' LENSED STRIP LIGHT WITH WIRE GUARD	DAY-BRITE	FSS-4-55L-835-UNV-DIM-FSSWG4	WALL	120	34	LED, 45W, 3500K		
WL	WALL MOUNT UP/DOWN 4'	FINELITE	HP-4 WM ID-4'-S-S-835-TG-F-120V-MB-FE-XX	WALL	120	65.6	LED, 3500K		
		I	EXTERIOR LIGHTING	1	l		l		
EC	SURFACE SHALLOW WET CYLINDER	MP	L600-13-W35-S-X-S-XXXV-MA-INTDVR	SURFACE	120	7.5	LED, 4000K	N/A	INTEGRAL DRIVER, 4.75" MAX HT
ED	RECESSED ADJUSTABLE WET DOWNLIGHT	WILLIAMS	4PS-L40-835-DIM-UNV-LW-OF-WH	RECESSED	120	44.7	LED, 4000K	N/A	
EP	EXTERIOR SITE FIXTURE	GARDCO	ECF-L-80-1A-NW-SF-3-UNV-BL-OMRP-BK	POLE	120	265	LED		
ES	EXTERIOR WALL SCONCE UP/DOWN/FRONT	LUMCA	LU-WP-A40K-B40K-C40KLXX-00-XX-BK-SGP10	SURFACE	120	38.5	LED, 4000K	N/A	
ES1	EXTERIOR RECESSED EGRESS	FC	FCSL540-120V-3K-530LM-BZ	RECESSED WALL	120	8	LED		REMOTE DRIVER NO SUBSTITUTIONS
$\rightarrow$									
ES2	EXTERIOR RECESSED EGRESS	FC	FCSL590-120V-4K-BK OPAL LENS	RECESSED WALL	120	28	LED		REMOTE DRIVER NO SUBSTITUTIONS
EW	EXTERIOR LED WALL LIGHT FIXTURE	TGS	WPF-70W-40K-U-120-277VAC-D	SURFACE	120	70	LED, 4000K	N/A	
			EMERGENCY LIGHTING						
XE	UNIVERSAL EXIT SIGN WITH BATTERY	BEGHELLI	VA-4-SA	SURFACE	120	3.2	LED	N/A	

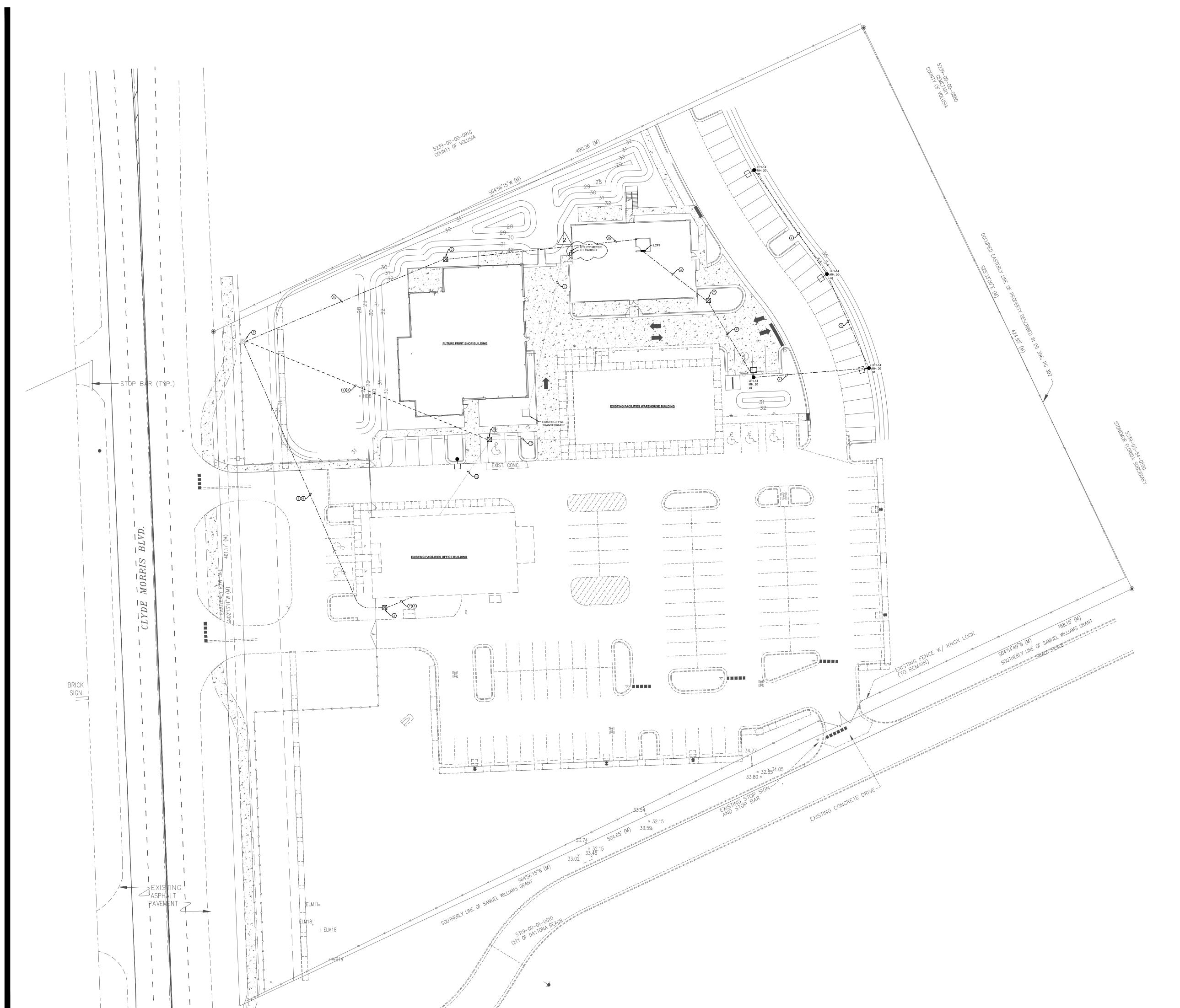
THE SPECIFIED FIXTURES HAVE BEEN SELECTED BASED ON PHOTOMETRIC PERFORMANCE, ELECTRICAL CHARACTERISTICS, VISUAL COMFORT AND AESTHETIC INTERPRETATION AND AS SUCH ANY CONTRACTOR WISHING TO PROPOSE ALTERNATE FIXTURES MUST SUBMIT SUCH REQUEST, IN WRITING, FIFTEEN (15) WORK DAYS PRIOR TO BID. THE REQUEST SHALL INCLUDE TWO COMPLETE SETS OF COLOR CATALOG CUT SHEETS OF ALL FIXTURES FOR REVIEW. IN MANY CASES, SAMPLES WILL BE REQUIRED. APPROVALS SHALL ONLY BE ISSUED BY THE ARCHITECT IN THE FORM OF AN ADDENDUM TO THE BID DOCUMENTS. IF ANY VALUE ENGINEERING IS REQUIRED AFTER THE BIDDING PROCESS, ANY AND ALL CHANGES IN FIXTURE MODELS WILL BE PROVIDED SOLEY BY THE ARCHITECT AS A VARIATION TO THE ORIGINAL SPECIFICATIONS.



HOUSEMAN	
931 S. SEMORAN BLVD. #204B WINTER PARK, FL 327 321-972-8446 AR0017645	92
ALL IDEAS, DESIGNS, AND DETAILS REPRESENTED BY TH DRAWING ARE OWNED BY AND THE PROPERTY HOUSEMAN ARCHITECTURE, LLC. AND WERE CREATE EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTI WITH THE SPECIFIED PROJECT. NONE OF THE IDEA DESIGNS, OR DETAILS SHALL BE USED BY OR DISCLOSED ANYONE FOR ANY PURPOSE WHATSOEVER WITHOUT TWRITTEN PERMISSION OF HOUSEMAN ARCHITECTURE, LI	OF ED, ON AS, TO THE

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### **GENERAL NOTES**

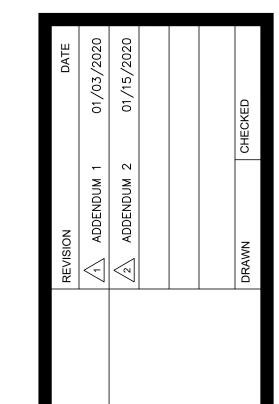
- 1. COORDINATE WITH FP&L FOR INSTALLATION OF THE NEW TRANSFORMER AND THE PRIMARY CONDUITS.
- 2. SEE SHEET E1.100A FOR SITE LIGHTING FIXTURE DETAILS.

### REFERENCE NOTES

- 1 INSTALL NEW SERVICE CONDUCTORS IN EXISTING SCH 40 PVC CONDUITS FROM TRANSFORMER SECONDARY TO CT CABINET. SEE PANEL FEEDER SCHEDULE ON SHEET E1.401 FOR CONDUCTOR SIZING.
- (2) INSTALL 13INX24INX12IN FLUSH GRADE FIBER COMPOSITE PULLBOX.
- (3) INSTALL ONE 2 INCH SCH 40 PVC CONDUITS WITH THREE #6AWG CONDUCTORS AND ONE 2 INCH SCH 40 PVC SPARE CONDUIT FROM LIGHTING CONTROL PANEL LCP1 TO THE PULLBOX.
- 4 INSTALL ONE 2 INCH SCH 40 PVC CONDUIT WITH THREE #6AWG CONDUCTORS TO SERVICE PARKING LOT LIGHTING.
- (5) REPLACE EXISTING PULL BOX WITH 48X48X30 INCH PULL
- (6) INSTALL TWO 4 INCH SCH 40 PVC CONDUITS 24 INCHES BELOW GRADE.
- (7) INSTALL ONE 4 INCH SCH 40 PVC CONDUIT FROM NEW PULL BOX INTO COMMUNICATIONS ROOM.
- 8 PULL BACK FIBER OPTIC CABLING FROM RACK LOCATED IN FACILITIES OFFICE TO PULL BOX AND REINSTALL EXISTING CABLING IN NEW CONDUITS. CABLE TO BE PULLED AND REINSTALLED ONE AT A TIME TO ENSURE NO COMMUNICATIONS OUTAGE. RE-TERMINATE CABLES AND CONNECT TO RACK PER ERAU STRUCTURED WIRING SPECIFICATIONS.
- (9) ABANDON CONDUIT, CUT AND CAP CONDUIT BELOW GRADE AT EACH END.
- 10 PULL BACK FIBER OPTIC AND FIRE ALARM CABLING FROM FACILITIES WAREHOUSE TO FACILITIES OFFICE BUILDING. FUSE THE 2 INCH CONDUIT FROM THE WARE HOUSE TO THE 2 INCH CONDUIT FROM THE OFFICE BUILDING AND REMOVE THE PULL BOX. RE-PULL AND RE-TERMINATE THE EXISTING FIBER OPTIC AND FIRE ALARM CABLING PER ERAU STRUCTURED WIRING SPECIFICATIONS.
- (11) INSTALL ONE 4 INCH SCH 40 PVC CONDUIT FROM PULL BOX TO MAIN ELECTRICAL ROOM. STUB CONDUIT UP ADJACENT TO TTB.

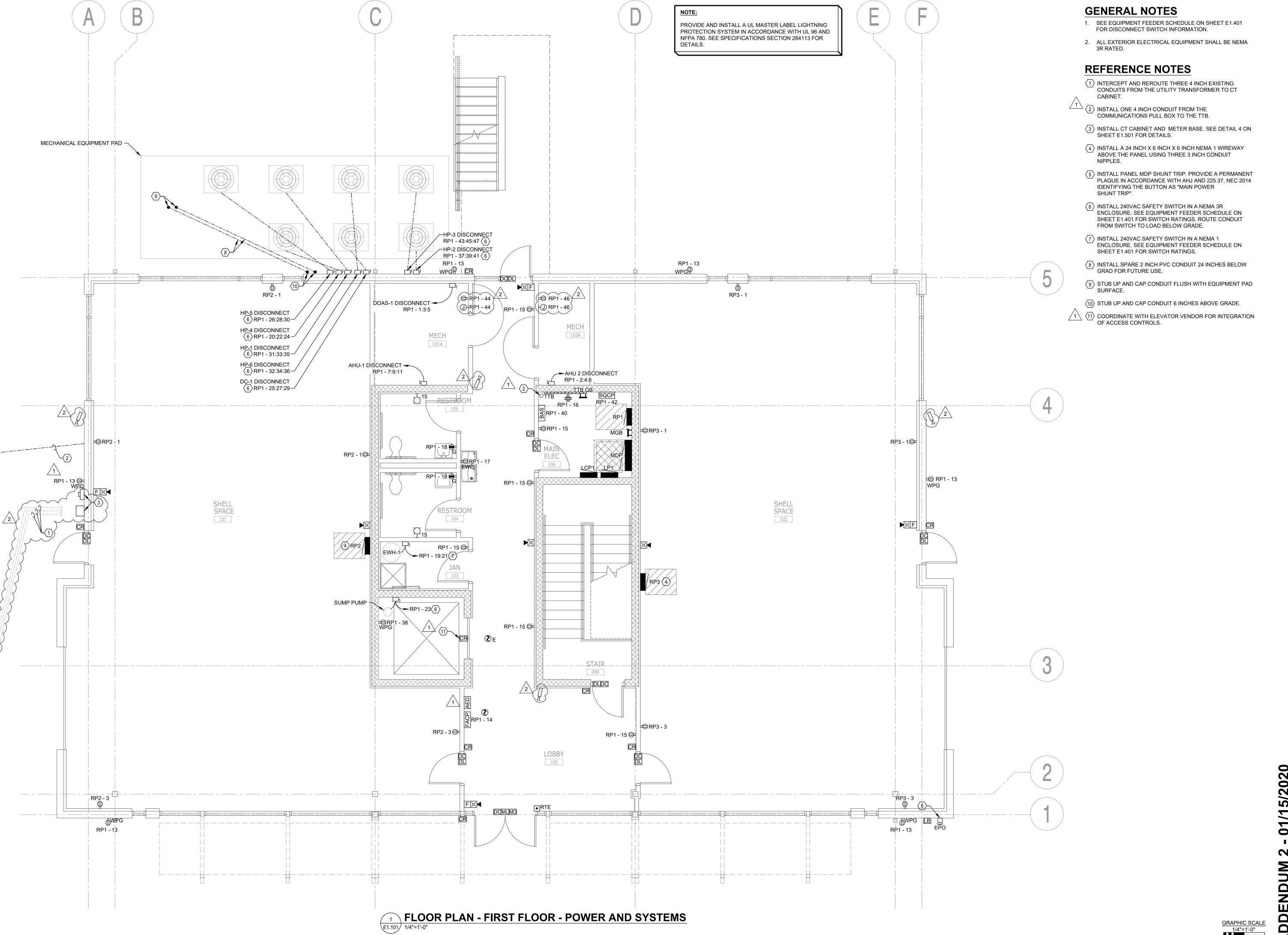






PRODUCTION BUILDING

ELECTRICAL PLAN



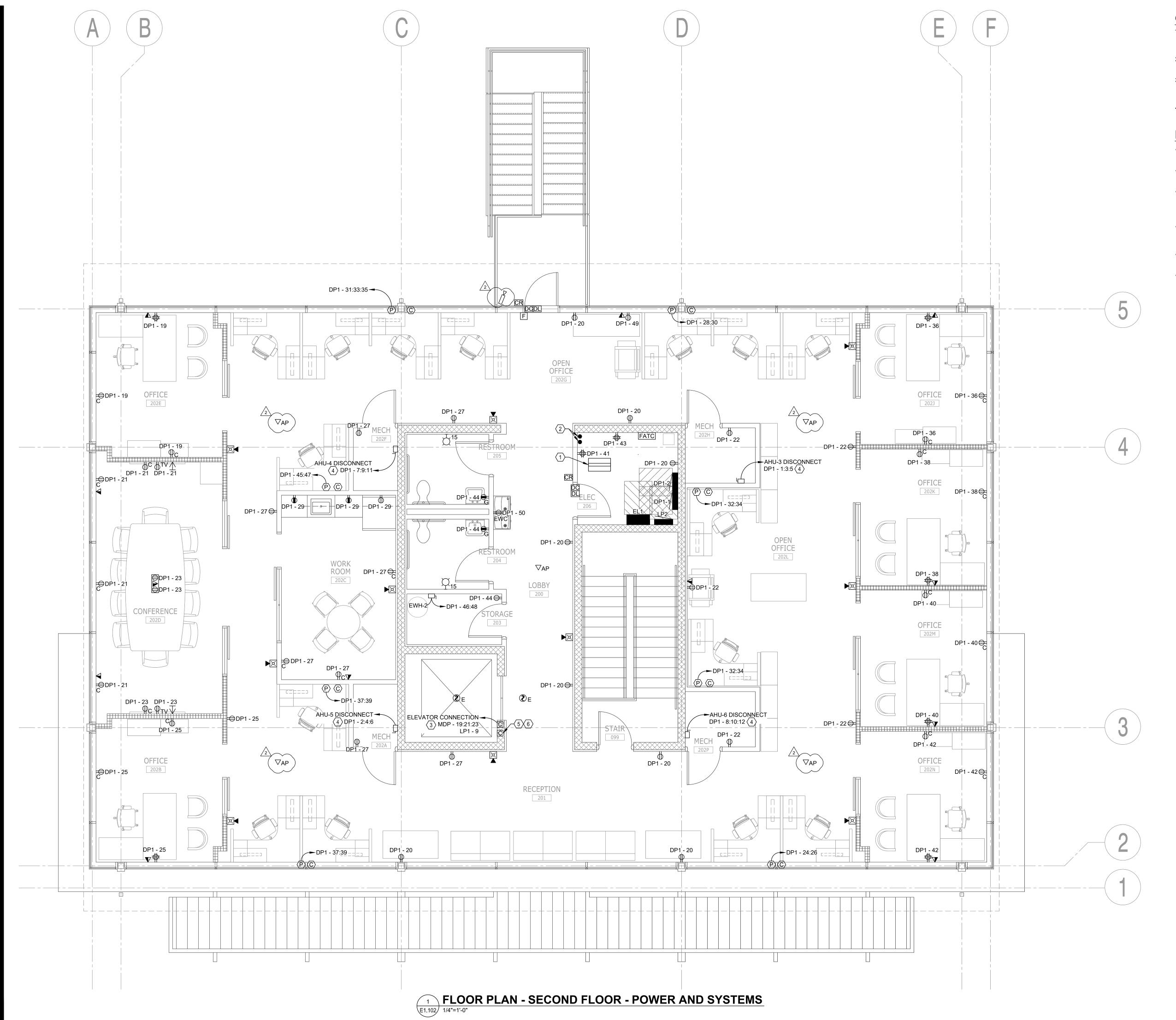




REVISION	7	DATE
\rightarrow \righ	ADDENDUM 1	01/03/2020
\_2\ A[	ADDENDUM 2	01/15/2020
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PRODUCTION BUILDING ERAU EMBRY-RIDDL

FIRST FLOOR

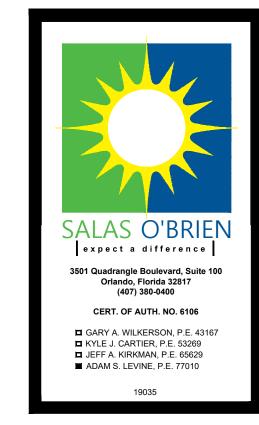




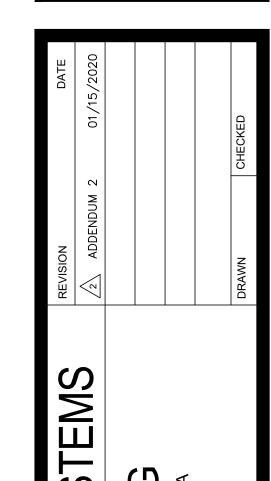
- 1. SYSTEMS FURNITURE CONNECTION POINTS ARE APPROXIMATE, COORDINATE FINAL INSTALLATION WITH FURNITURE VENDOR PRIOR TO INSTALLATION.
- 2. COORDINATE FLOOR BOX LOCATIONS WITH APPROVED FURNITURE SHOP DRAWINGS.
- 3. CONFIGURE SYSTEMS FURNITURE WIRING SO NO LESS THAN 25% OF SYSTEMS FURNITURE OUTLETS SHALL BE CONTROLLED. SEE SHEET E1.403 FOR DETAILS.
- 4. SEE EQUIPMENT FEEDER SCHEDULE ON SHEET E1.401 FOR DISCONNECT SWITCH INFORMATION.

### **REFERENCE NOTES**

- (1) SPACE ALLOCATION FOR 42U TWO POST IT RACK. RACK TO BE PROVIDED AND INSTALLED BY OTHERS.
- $\langle 2 
  angle$  INSTALL TWO 4 INCH CONDUIT SLEEVES TO THE FIRST FLOOR ELECTRICAL ROOM.
- (3) CONNECT CONDUITS TO TOP OF ELEVATOR CONTROLLER PANEL LOCATED IN ELEVATOR ENTRANCE. COORDINATE WITH ELEVATOR CONTRACTOR FOR FINAL LOCATION OF CONNECTION POINTS.
- 4 INSTALL 240VAC SAFETY SWITCH IN A NEMA 1 ENCLOSURE. SEE EQUIPMENT FEEDER SCHEDULE ON SHEET E1.401 FOR SWITCH RATINGS.
- $\langle 5 \rangle$  INSTALL 1 INCH CONDUIT FROM ELEVATOR CONTROLLER TO TTB IN ROOM 106 FOR ELEVATOR PHONE.
- 6 INSTALL 1 INCH CONDUIT FROM ELEVATOR CONTROLLER TO FACP.

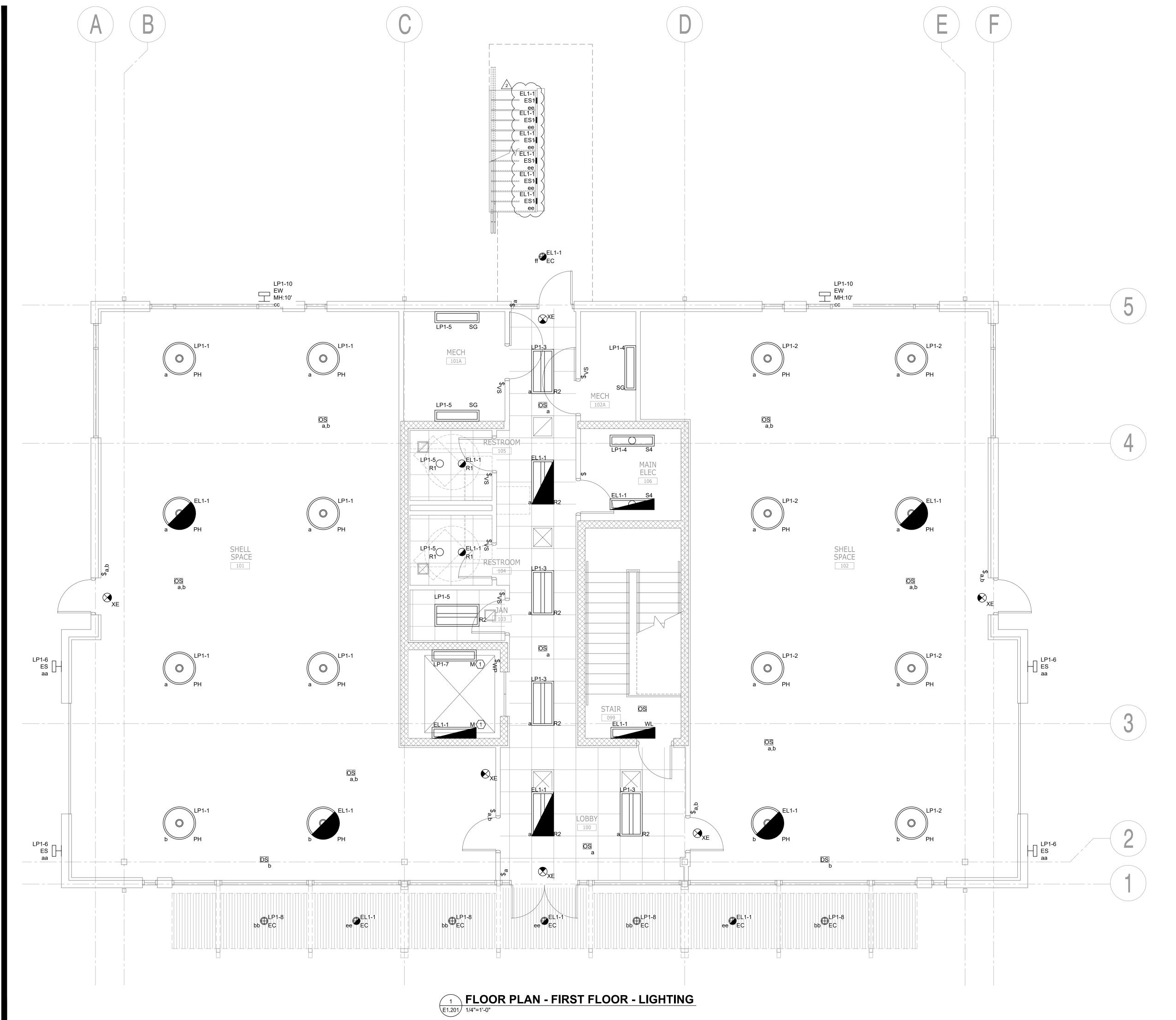






PWR & SYSTEMS TION BUILDING
JERSITY, DAYTONA BEACH, FLORIDA SECOND FL **PRODUC** ERAU EMBRY-RIDDL PLAN

102





- ALL 120VAC NORMAL POWER LIGHTING CIRCUITS ARE FED FROM PANEL LP1.
- ALL 120VAC EMERGENCY/LIFE SAFETY LIGHTING CIRCUITS ARE FED FROM EM LIGHTING INVERTER PANEL EL1.
- 3. CONTRACTOR TO PROVIDE AND INSTALL ALL COMPONENTS AND CABLING NECESSARY FOR A COMPLETE AND FUNCTIONAL LIGHTING CONTROL SYSTEM. SEE LIGHTING CONTROL DIAGRAMS ON SHEET F1.403.

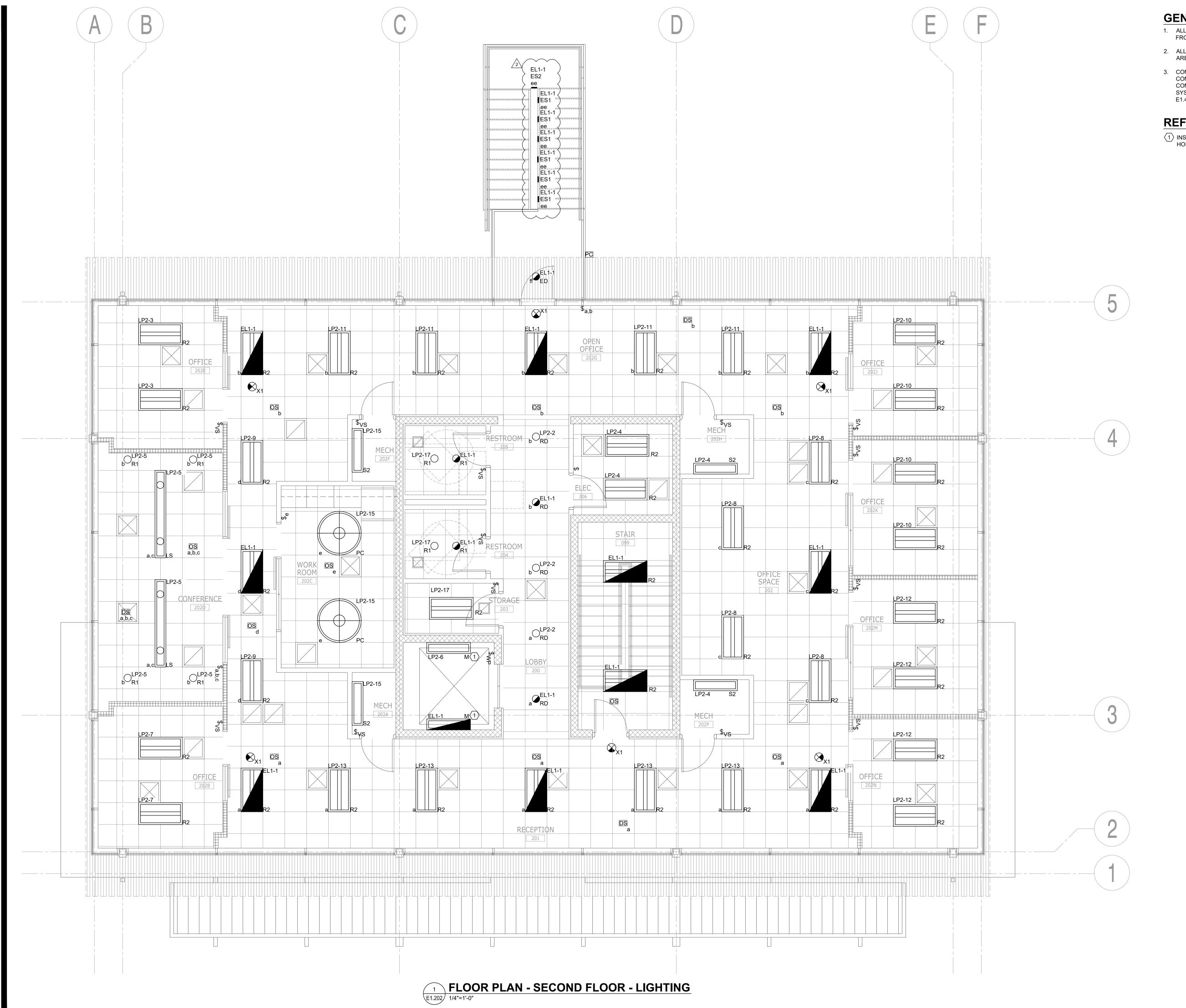
### **REFERENCE NOTES**

1 INSTALL VAPOR-TIGHT FIXTURES IN ELEVATOR PIT





JUENDL	JUENDUM 2 - 01/15/2020		
12/20/2019	_	REVISION	DATE
no. 2019-5743		2 ADDENDUM 2	01/15/2020
et no.	FRAU PRODUCTION BUILDING		
1 201	EMBRY-RIDDLE AERONAUTICAL UNIVERSITY, DAYTONA BEACH, FLORIDA		
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		DRAWN	СНЕСКЕD



# **GENERAL NOTES**

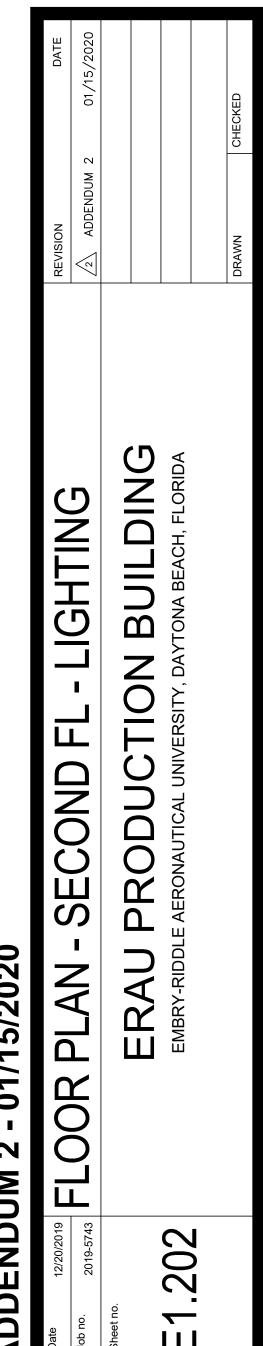
- 1. ALL 120VAC NORMAL POWER LIGHTING CIRCUITS ARE FED FROM PANEL LP2.
- ALL 120VAC EMERGENCY/LIFE SAFETY LIGHTING CIRCUITS ARE FED FROM EM LIGHTING INVERTER PANEL EL1.
- 3. CONTRACTOR TO PROVIDE AND INSTALL ALL COMPONENTS AND CABLING NECESSARY FOR A COMPLETE AND FUNCTIONAL LIGHTING CONTROL SYSTEM. SEE LIGHTING CONTROL DIAGRAMS ON SHEET E1.403.

### REFERENCE NOTES

1 INSTALL VAPOR-TIGHT FIXTURES IN ELEVATOR HOISTWAY







VOLTS L-	-N : 120	MAIN O	PTIONS	REQUIR	ED		PA	NEL:	MDP							ENCLOSURE DATA	
VOLTS P			RATED :					MCB:	800	AMPS						NEMA: 1	
PHASE :	3	GFI	GFI PROT.: N/A					MLO :	N/A	AMPS						SECTIONS: 1	
MOUNTIN	NG : SURFACE	SHUN	T TRIP :	YES												WIDTH/SECT.: 32	
MFR : SQ	). D.						PRO	VIDE N	NEW PA	NEL						DEPTH: 9.5	
TYPE : H	CM					LOC	ATION	ELEC	TRICAL	ROOM	1 106					FED FROM: UTILITY	
			AIC RA	TING (FU	JLLY RA	TED OR	SERIES F	RATED):	35	KA (MI	NIMUM, S	SEE SPE	CIFICATI	ONS)			
NOTES	DESCRIPTION	LOAD	AMPS	AMPS	AMPS	C.B.	C.B.	CKT.	CKT.	C.B.	C.B.	AMPS	AMPS	AMPS	LOAD	DESCRIPTION	NOTES
		CONN				AMPS	POLES	NUM.	NUM.	POLES	AMPS				CONN		
	PANEL DP1		234			400	3	1	2	3	225	3				PANEL RP2	
	====			234		===	===	3	4	===	===		3			====	
	====				234	===	===	5	6	===	===			3		====	
	PANEL LP1		12			100	3	7	8	3	225	3				PANEL RP3	
	====			12		===	===	9	10	===	===		3			====	
	====				12	===	===	11	12	===	===			3		====	
	PANEL RP1		274			225	3	13	14	3	100	0				SPARE	
	====			274			===	15	16	===	===		0			====	
	====				274	===	===	17	18	===	===			0		====	
	ELEVATOR	79	79			175	3	19	20	3	30	0				SPD	
	====	79		79		===	===	21	22	===	===		0			====	
	====	79			79	===	===	23	24	===	===			0		====	
														AMPS	KVA		
		604 : AMPS	PHASE	Α							ACTUA	L CONN.	LOAD :		220		
		604 : AMPS											MAND :		215		
		604 : AMPS															
PANEL N	OTES:																
	REFER TO PANEL FEEDER SCHEDULI	FOR CONDUCT	OR AND	CONDU	IIT REQI	JIREMEN	TS.										
	REFER TO EQUIPMENT FEEDER SCHI																
	100% RATED MAIN BREAKER			•													
,																	

OLTS PH	N: 120		PTIONS RATED :	REQUIF	RED		PA	NEL:	DP1 N/A	ΔΜΡς						ENCLOSURE DATA NEMA: 1	
HASE : 3			PROT. :						400							SECTIONS: 2	
	G : SURFACE		T TRIP :					IVILO .	400	AIVII O						WIDTH/SECT.: 20	
FR : SQ.		SHOW	I INIF.	IN/A			DP∩	VIDE N	EW DA	NEI						DEPTH: 5.75	
YPE : NO							OCATIO				6					FED FROM: MDP	
IFE.INC	OD		AIC R	ATING (F	-UIIYR		SERIES I			KA (MIN		SEE SPE	CIFICATI	ONS)		FED FROM: MIDF	
			741011	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OLLITA	7 (1 LD 01 ·	CLITTO	, u (125).	10	101 (11111		,EE 01 E	011 107 111	0110)			
OTES	DESCRIPTION	LOAD	AMPS	AMPS	AMPS	C.B.	C.B.	CKT.	CKT.	C.B.	C.B.	AMPS	AMPS	AMPS	LOAD	DESCRIPTION	NOTES
OILO	BESSIII HOIV	CONN	7	/	/	AMPS	POLES	NUM.	NUM.	POLES		7	/	7	CONN	Brookii Hok	11012
	AHU-3	36	36			40	3	1	2	3	40	36			36	AHU-5	
	====	36	00	36		===	===	3	4	===	===		36		36	====	
	===	36			36		===	5	6	===	===			36	36	====	
	AHU-4	36	36			40	3	7	8	3	40	37			37	AHU-6	
	===	36		36		===	===	9	10	===	===		37		37		
	====	36			36	===	===	11	12	===	===			37	37	====	
	 EF-1	7	7			20	1	13	14	3	100	8				PANEL LP2	
	SPARE			0		20	1	15	16	===	===		8			====	
	SPARE				0	20	1	17	18	===	===			8		====	
	202E REC	4	6			20	1	19	20	1	20	11			7	200, 201, 202G REC	
	202D REC	5		8		20	1	21	22	1	20		8		5	202H, 202L, 202P REC	
	202D REC	4			6	20	1	23	24	1	20			3	2	SE SYSTEMS FURNITURE	
	REC 202B	5	8			20	1	25	26	1	20	8			2	SE SYSTEMS FURNITURE	
	202A, 202C, 202F, 202G REC	8		12		20	1	27	28	1	20		5		3	NE SYSTEMS FURNITURE	
	202C COUNTER AND REFRIG REC	11			11	20	1	29	30	1	20			12	3	NE SYSTEMS FURNITURE	
	NW SYSTEMS FURNITURE	2	8			20	1	31	32	1	20	3			2	E SYSTEMS FURNITURE	
	NW SYSTEMS FURNITURE	2		8		20	1	33	34	1	20		8		2	E SYSTEMS FURNITURE	
	NW SYSTEMS FURNITURE	4			6	20	1	35	36	1	20			6	4	202J REC	
	SW SYSTEMS FURNITURE	3	12			20	1	37	38	1	20	6			4	202K REC	
	SW SYSTEMS FURNITURE	3		5		20	1	39	40	1	20		6		4	202M REC	
	IT RACK REC	2			8	20	1	41	42	1	20			6	4	202N REC	
	IT RACK REC	2	8			20	1	43	44	1	20	5			3	203, 204, 205 REC	
	W SYSTEMS FURNITURE	1		2		20	1	45	46	1	20		22		22	EWH-2	
	W SYSTEMS FURNITURE	1			4	20	1	47	48	1	20			22	22	====	
	COPIER	1	4			20	1	49	50	1	20	11			11	EWC	3
	SPARE			0		20	1	51	52	1	20		0			SPARE	
	SPARE				0	20	1	53	54	1	20			0		SPARE	
	SPARE		0			20	1	55	56	1	20	0				SPARE	
	SPARE			0		20	1	57	58	1	20		0			SPARE	
	SPARE				0	20	1	59	60	1	20			0		SPARE	
	SPARE		0			20	1	61	62	1	20	0				SPARE	
	SPARE			0		20	1	63	64	1	20		0			SPARE	
	SPARE				0	20	1	65	66	1	20			0		SPARE	
	SPARE		0			20	1	67	68	1	20	0				SPARE	
	SPARE			0		20	1	69	70	1	20		0			SPARE	
	SPARE				0	20	1	71	72	1	20			0		SPARE	
	SPARE		0			20	1	73	74	1	20	0				SPARE	
	SPARE			0		20	1	75	76	1	20		0			SPARE	
	SPARE				0	20	1	77	78	1	20			0		SPARE	
	SPARE		0			20	1	79	80	3	30	0				SPD	
	SPARE			0		20	1	81	82	===	===		0			====	
	SPARE				0	20	1	83	84	===	===			0		====	

3) PROVIDE GFI TYPE CIRCUIT BREAKER.

4) PROVIDE LOCKABLE BREAKER COLORED RED PER NFPA 72, SECTION 10.6.5

/OLTS L- /OLTS P PHASE : : MOUNTIN MFR : SQ		MAIN O	PTIONS	REQUIF	RED		PA	NEL:	RP1							ENCLOSURE DATA	
PHASE : :	H. : 208	S.E. F	RATED :	N/A				MCB:	N/A	AMPS						NEMA : 1	
MOUNTIN		GFI	PROT.:	N/A				MLO:	225	AMPS						SECTIONS: 1	
	IG : SURFACE		T TRIP :					0 .								WIDTH/SECT.: 20	
/II IN . JU		OHON		11//-1			DDO	VIDE N	EW DA	NEI						DEPTH: 5.75	
YPE : N							OCATIO				6					FED FROM: MDP	
TPE.N	QOD		AIC R	ating (i	ULLY R		R SERIES			KA (MIN		SEE SPEC	CIFICATI	ONS)		FED FROM. MIDF	
NOTES	DESCRIPTION	LOAD	AMPS	AMPS	AMPS	C.B.	C.B. POLES	CKT.	CKT.	C.B. POLES	C.B.	AMPS	AMPS	AMPS	LOAD CONN	DESCRIPTION	NOTES
	DOAS-1	42	42			50	3	1	2	3	40	37			37	AHU-2	
	====	42	72	42		===	===	3	4	===	===	0,	37		37	====	
	====	42		42	42	===	===	5	6	===	===		31	37	37	====	
		37	37		42			7			20	0		31	31	SPARE	
	AHU-1		31	27		40	3		8	1		U					
	====	37		37	07	===	===	9	10	1	20		0			SPARE	
	====	37			37	===	===	11	12	1	20			0		SPARE	
	EXTERIOR RECEPTACLES	5	8			20	1	13	14	2	30	5			5	FACP	4
	RM 100, 103, 106 REC	6		9		20	1	15	16	===	===		8		2	TTB RECEP	
3	EWC	11			11	20	1	17	18	1	20			3	2	RM 105, 104 REC	
	EWH-1	22	22			30	2	19	20	3	30	18			18	HP-4	
	====	22		22		===	===	21	22	===	===		18		18	====	
	ELEVATOR SUMP PUIMP	10			10	20	1	23	24	===	===			18	18	====	
	DC-1	5	5			15	3	25	26	3	30	18			18	HP-5	
	====	5		5		===	===	27	28	===	===		18		18	====	
	====	5			5	===	===	29	30	===	===			18	18	====	
	HP-1	21	21			35	3	31	32	3	35	21			21	HP-6	
	====	21		21		===	===	33	34	===	===		21		21	====	
	====	21			21	===	===	35	36	===	===			21	21	====	
	HP-2	21	21			35	3	37	38	1	20	2		<b>Z</b> 1		ELEVATOR PIT REC	
	====	21	21	21		===	===	39	40	1	20		5			BAS PANEL	
	====			21	21	_		1			20		J	0			
		21	40		21	===	===	41	42	1	-			0	_5_	SOCP ANA PEOPPTAGE AND IPOY	$\rightarrow \sim$
	HP-3	18	18	40		30	3	43	44	1	20	3		$\overline{}$	2	RM 101A RECEPTACLE AND JBOX	
	====	18		18		===	===	45	46	1	20		3		2	RM 102A RECEPTACLE AND JBOX SPARE	
	====	18			18	===	===	47	48	1	20			0			
	SPARE		0			20	1	49	50	1	20	0				SPARE	
	SPARE			0		20	1	51	52	1	20		0			SPARE	
	SPARE				0	20	1	53	54	1	20			0		SPARE	
	SPARE		0			20	1	55	56	1	20	0				SPARE	
	SPARE			0		20	1	57	58	1	20		0			SPARE	
	SPARE				0	20	1	59	60	1	20			0		SPARE	

VOLTS L	-N : 120	MAIN O	PTIONS	REQUIR	RED		PA	NEL:	RP2							ENCLOSURE DATA		
/OLTS F	PH. : 208	S.E. F	RATED :	N/A				MCB:	N/A	AMPS						NEMA: 1		
HASE :		GFII	PROT.:	N/A				MLO :	225	AMPS						SECTIONS: 1		
1OUNTI	NG : SURFACE	SHUN	TRIP:	N/A												WIDTH/SECT.: 20		
MFR : SO							PRO	VIDE N	IEW PA	NEL						DEPTH: 5.75		
YPE : N	QOD					L	OCATI	ON: SH	ELL SP	ACE 10	1					FED FROM: MDP		
			AIC RA	TING (F	JLLY RA	TED OR	SERIES I	RATED):	22	KA (MIN	IIMUM, S	SEE SPEC	CIFICATI	ONS)				
OTES	DESCRIPTION	LOAD	AMPS	AMPS	AMPS	C.B.	C.B.	CKT.	CKT.	C.B.	C.B.	AMPS	AMPS	AMPS	LOAD	DESCRIPTION	NOTE	
		CONN				AMPS	POLES	NUM.	NUM.	POLES	AMPS				CONN			
	101 NORTH REC	3	5			20	1	1	2	1	20	0				SPARE		
	101 SOUTH REC	2		3		20	1	3	4	1	20		0			SPARE		
	SPARE				0	20	1	5	6	1	20			0		SPARE		
	SPARE		0			20	1	7	8	1	20	0				SPARE		
	SPARE			0		20	1	9	10	1	20		0			SPARE		
	SPARE				0	20	1	11	12	1	20			0		SPARE		
	SPARE		0			20	1	13	14	1	20	0				SPARE		
	SPARE			0		20	1	15	16	1	20		0			SPARE		
	SPARE				0	20	1	17	18	1	20			0		SPARE		
	SPARE		0			20	1	19	20	1	20	0				SPARE		
	SPARE			0		20	1	21	22	1	20		0			SPARE		
	SPARE				0	20	1	23	24	1	20			0		SPARE		
	SPARE		0			20	1	25	26	1	20	0				SPARE		
	SPARE			0		20	1	27	28	1	20		0			SPARE		
	SPARE				0	20	1	29	30	1	20			0		SPARE		
	SPARE		0			20	1	31	32	1	20	0				SPARE		
	SPARE			0		20	1	33	34	1	20		0			SPARE		
	SPARE				0	20	1	35	36	1	20			0		SPARE		
	SPARE		0			20	1	37	38	1	20	0				SPARE		
	SPARE			0		20	1	39	40	1	20		0			SPARE		
	SPARE				0	20	1	41	42	1	20			0		SPARE		
														AMPS	KVA			
		5 : AMPS	PHASE	Α							ACTUA	L CONN.	LOAD :	3	1			
		3 : AMPS	PHASE	В								NEC DE	MAND :	3	1			
		0 : AMPS	PHASE	С														
MANE: :	IOTEO																	
PANEL N																		
1)	REFER TO PANEL FEEDER SCHEDULI	E FOR CONDUCT	OR AND	CONDL	JIT REQU	JIREMEN	NTS.											

4) PROVIDE LOCKABLE BREAKER COLORED RED PER NFPA 72, SECTION 10.6.5





REVISION	DATE
ADDENDUM 2	01/15/2020
DRAWN	СНЕСКЕD

# EDULES - ELECTRICAL ERAU PRODUCTION BUILDING EMBRY-RIDDLE AERONAUTICAL UNIVERSITY, DAYTONA BEACH, FLORIDA

# ADDENDUM 2 - 01/15/2020 Date 12/20/2019 SCHEDULES -

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Job no. 2019-5743	Sheet no.	<b>≣1.601</b>
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VOLTS L	-N : 120	MAIN O	PTIONS	REQUIF	RED		PA	NEL:	RP3							ENCLOSURE DATA	
VOLTS P	PH. : 208	S.E. F	RATED :	N/A				MCB:	N/A	AMPS						NEMA:1	
PHASE :	3	GFI	PROT.:	N/A				MLO:	225	AMPS						SECTIONS: 1	
MOUNTI	NG : SURFACE	SHUN	T TRIP :	N/A												WIDTH/SECT.: 20	
MFR : SC	Q. D.						PRC	VIDE N	IEW PA	NEL						DEPTH: 5.75	
TYPE : N	QOD					LOCATION: SHELL SPACE 102  RATED OR SERIES RATED): 22 KA (MINIMUM, SEE SPECIFICATIONS)										FED FROM: MDP	
			AIC RA	TING (F	ULLY RA	TED OR	SERIES I	RATED):	22	KA (MIN	IIMUM, S	SEE SPE	CIFICATI	ONS)			
NOTES	DESCRIPTION	LOAD	AMPS	AMPS	AMPS	C.B.	C.B.	CKT.	CKT.	C.B.	C.B.	AMPS	AMPS	AMPS		DESCRIPTION	NOTE
		CONN				AMPS	POLES	NUM.	NUM.	POLES	AMPS				CONN		
	102 NORTH REC	3	5			20	1	1	2	1	20	0				SPARE	
	102 SOUTH REC	2		3		20	1	3	4	1	20		0			SPARE	
	SPARE				0	20	1	5	6	1	20			0		SPARE	
	SPARE		0			20	1	7	8	1	20	0				SPARE	
	SPARE			0		20	1	9	10	1	20		0			SPARE	
	SPARE				0	20	1	11	12	1	20			0		SPARE	
	SPARE		0			20	1	13	14	1	20	0				SPARE	
	SPARE			0		20	1	15	16	1	20		0			SPARE	
	SPARE				0	20	1	17	18	1	20			0		SPARE	
	SPARE		0			20	1	19	20	1	20	0				SPARE	
	SPARE			0		20	1	21	22	1	20		0			SPARE	
	SPARE				0	20	1	23	24	1	20			0		SPARE	
	SPARE		0			20	1	25	26	1	20	0				SPARE	
	SPARE			0		20	1	27	28	1	20		0			SPARE	
	SPARE				0	20	1	29	30	1	20			0		SPARE	
	SPARE		0			20	1	31	32	1	20	0				SPARE	
	SPARE			0		20	1	33	34	1	20		0			SPARE	
	SPARE				0	20	1	35	36	1	20			0		SPARE	
	SPARE		0			20	1	37	38	1	20	0				SPARE	
	SPARE			0		20	1	39	40	1	20		0			SPARE	
	SPARE				0	20	1	41	42	1	20			0		SPARE	
														AMPS	KVA		
		5 : AMPS	PHASE	Α							ACTUAL	L CONN.	LOAD :	3	1		
		3 : AMPS	PHASE	В								NEC DE	MAND :	3	1		
		0 : AMPS	PHASE	С													
PANEL N	IOTES:																
1)	REFER TO PANEL FEEDER SCHEDULE FO	R CONDUCT	OR AND	CONDU	JIT REQU	JIREMEN	NTS.										
-	REFER TO EQUIPMENT FEEDER SCHEDUL	E FOR CON	DUCTO	R AND C	ONDUIT	REQUIR	EMENTS										
	PROVIDE GFI TYPE CIRCUIT BREAKER.																
4)	PROVIDE LOCKABLE BREAKER COLORED	RED PER N	FPA 72,	SECTIO	N 10.6.5												

OLTS PH HASE : 3 IOUNTING IFR : SQ. I		S.E. R	DATED.														
OUNTING			WILD.	N/A				MCB:	N/A	AMPS						NEMA: 1	
		GFI I	PROT.:	N/A				MLO:	100	AMPS						SECTIONS: 1	
IFR : SQ. I	G : SURFACE	SHUN	T TRIP :	N/A												WIDTH/SECT.: 20	
	D.						PRO	VIDE N	EW PA	NEL						DEPTH: 5.75	
YPE : NQ						LOC	ATION:				106					FED FROM: MDP	
			AIC RA	TING (F	ULLY RA		SERIES F					EE SPE	CIFICATI	ONS)			
		1						0.5									1
IOTES	DESCRIPTION		AMPS	AMPS	AMPS	C.B.	C.B.	CKT.	CKT.	C.B.	C.B.	AMPS	AMPS	AMPS		DESCRIPTION	NOTES
		CONN					POLES	NUM.	NUM.	POLES					CONN		
	RM 101 LTS	336	3			20	1	1	2	1	20	3	_		336	RM 102 LTS	
	RM 100 LTS	136		1		20	1	3	4	1	20		2		180	RM 102A, 106 LTS	
	RM 101A, 103, 104, 105 LTS	238			2	20	1	5	6	1	20			2	240	EXTERIOR SCONCE	
	HOISTWAY LTS	60	1			20	1	7	8	1	20	1			100	SOUTH ENTRANCE EXTERIOR LTS	
3 E	ELEVATOR CAB LTS	1800		15		20	1	9	10	1	20		2		200	NORTH ENTRANCE EXTERIOR LTS	
	SPARE				0	20	1	11	12	1	20			6	750	PARKING LIGHTS	
S	SPARE		0			20	1	13	14	1	20	0				SPARE	
S	SPARE			0		20	1	15	16	2	20		0			SPARE	
S	SPARE				0	20	1	17	18	===	===			0		SPARE	
S	SPARE		0			20	1	19	20	1	20	0				SPARE	
S	SPARE			0		20	1	21	22	1	20		0			SPARE	
S	SPARE				0	20	1	23	24	1	20			0		SPARE	
S	SPARE		0			20	1	25	26	1	20	0				SPARE	
S	SPARE			0		20	1	27	28	1	20		0			SPARE	
S	SPARE				0	20	1	29	30	1	20			0		SPARE	
5	SPARE		0			20	1	31	32	1	20	0				SPARE	
S	SPARE			0		20	1	33	34	1	20		0			SPARE	
S	SPARE				0	20	1	35	36	1	20			0		SPARE	
	SPARE		0			20	1	37	38	1	20	0				SPARE	
S	SPARE			0		20	1	39	40	1	20		0			SPARE	
5	SPARE				0	20	1	41	42	1	20			0		SPARE	
<u> </u>						•		· · · · · ·		1	ı			AMPS	KVA		
		7 : AMPS	PHASE	Α							ACTUAI	CONN.	LOAD :	12	4		
		19 : AMPS	PHASE	В								NEC DE	MAND :	12	4		
		10 : AMPS	PHASE	С													
ANEL NO	OTES:																
1) F	REFER TO PANEL FEEDER SCHEDULE	FOR CONDUCT	OR AND	CONDU	JIT REQI	JIREMEN	ITS.										
2) F	REFER TO EQUIPMENT FEEDER SCHE	DULE FOR CON	DUCTOR	R AND C	ONDUIT	REQUIR	EMENTS.										
3) F	PROVIDE GFI TYPE CIRCUIT BREAKER																

VOLTS L	-N : 120	MAIN C	PTIONS	REQUIR	ED		PA	NEL:	LP2					•		ENCLOSURE DATA		
VOLTS P		S.E. I	RATED :	N/A				MCB:	N/A	AMPS						NEMA: 1		
PHASE :		GFI	PROT.:	N/A				MLO :	100	AMPS						SECTIONS : 1		
	NG: SURFACE	SHUN	T TRIP :	N/A												WIDTH/SECT.: 20		
MFR : SQ							PRO	VIDE N	IEW PA	NEL						DEPTH : 5.75		
TYPE : N						LOC	ATION:	ELEC	TRICAL	ROOM	206					FED FROM: DP1		
			AIC RA	ATING (FU	JLLY RA	TED OR	SERIES F	RATED):	22	KA (MIN	NIMUM, S	SEE SPEC	CIFICATI	IONS)				
NOTES	DESCRIPTION	LOAD	AMPS	AMPS	ΔMDS	C.B.	C.B.	CKT.	CKT.	C.B.	C.B.	ΔMDS	ΔMDS	AMPS	LOAD	DESCRIPTION	NO	
NOTES	DESCRIPTION	CONN	Aivii O	AWII O	AWII O		POLES	NUM.	NUM.	POLES		AWI O	AWII O	AWII O	CONN	BEOOM! HOW		
	PANEL EL1	8	8			20	1	1	2	1	20	1			63	RM 200 LTS		
	RM 202E LTS	68		1		20	1	3	4	1	20		2		188	RM 206, 202H, 202P LTS		
	RM 202D LTS	202			2	20	1	5	6	1	20			1	60	HOISTWAY LTS		
	RM 202B LTS	68	1			20	1	7	8	1	20	1			136	RM 202 LTS		
	WEST CORRIDOR LTS	68		1		20	1	9	10	1	20		1		136	RM 202J, 202K LTS		
	RM 202G LTS	136			1	20	1	11	12	1	20			1	136	RM 202M, 202N LTS		
	RM 201 LTS	136	1			20	1	13	14	1	20	0				SPARE		
	RM 202C, 202F, 202A LTS	232		2		20	1	15	16	1	20		0			SPARE		
	RM 203, 204, 205 LTS	118			1	20	1	17	18	1	20			0		SPARE		
	SPARE		0			20	1	19	20	1	20	0				SPARE		
	SPARE			0		20	1	21	22	1	20		0			SPARE		
	SPARE				0	20	1	23	24	1	20			0		SPARE		
	SPARE		0			20	1	25	26	1	20	0				SPARE		
	SPARE			0		20	1	27	28	1	20		0			SPARE		
	SPARE				0	20	1	29	30	1	20			0		SPARE		
	SPARE		0			20	1	31	32	1	20	0				SPARE		
	SPARE			0		20	1	33	34	1	20		0			SPARE		
	SPARE				0	20	1	35	36	1	20			0		SPARE		
	SPARE		0			20	1	37	38	1	20	0				SPARE		
	SPARE			0		20	1	39	40	1	20		0			SPARE		
	SPARE				0	20	1	41	42	1	20			0		SPARE		
														AMPS	Κ\/Δ			
		12 · AMPS	S PHASE	Δ							ACTUA	I CONN	I OAD ·		3			
												3						
												ŭ						
	NEL NOTES:																	
PANEL N																		
	REFER TO PANEL FEEDER SCHEDUL	E FOR CONDUCT	TOR ANI	CONDI	IIT REQI	JIREMEN	ITS											
	REFER TO EQUIPMENT FEEDER SCH																	

VOLTS L	L-N : 120					PA	NEL:	EL1		ENCLOSURE DATA
VOLTS F	PH: N/A						MCB:	20	AMPS	NEMA: 1
PHASE :	: 1						MLO :	N/A	AMPS	SECTIONS: 1
MFR: MY	YERS									WIDTH/SECT.: 25
TYPE: 18	EM2S									DEPTH: 11
										FED FROM: LP2
		AIC	RATING (	FULLY R	ATED OR	SERIES	RATED):	10	KA (MINIMUM, SEE S	SPECIFICATIONS)
		2								
NOTES	DESCRIPTION	LOAD	AMPS	)AMPS	C.B.	C.B.	CKT.			
		CONN			AMPS	POLES	NUM.			
	INTERIOR EMERGENCY	1094	9	<i>S</i>	20	1	1			
									ACTUAL CONN. LO	AMPS VA 9 1094
DANIEL N	NOTES.									
PANEL N	NOTES: 1.6 KVA EMERG. LTG. IN\	/ERTER WITH	1 120V IN	PUT/OUT	PUT.					

LEG aa bb ee	CIRCUIT NO.		(SEE B												
bb															
ee	LP1-8	SOUTH ENTRY EXTERIOR	b	b	PARKING LOT LIGHTS	LP1-14	dd	4							
7 SPARE RELAY SPARE RELAY 8 SENERAL NOTES:															
E DOUBLE DTES: CONTROI ELL ON TI	E POLE SINGL LLED VIA DIGI IME CLOCK O PHOTOCELL (	E THROW RELAYS FOR ALL CII TAL SWITCH AND PROGRAMMI FF PER OWNER'S DIRECTION. DFF.	RCUITS FE	ED BY 2 PO	DLE C.B.'S F' SCHEDULE.										
	CIFICATI OVERR ODING ( PROGR SYSTEM BARRIE DOUBLI TES: ONTRO LL ON T LL ON - RELAY	CIFICATIONS FOR RECOVERRIDE SWITCHES DDING OF CONDUCTO PROGRAMMED TIME- SYSTEM PHOTOCELL BARRIER IN PANEL TO DOUBLE POLE SINGL TES: ONTROLLED VIA DIGI LL ON TIME CLOCK OF LL ON - PHOTOCELL OF RELAY PANEL CONT	CIFICATIONS FOR REQUIREMENTS.  OVERRIDE SWITCHES AT PANEL FOR EACH SET POUDING OF CONDUCTORS SHALL BE THE SAME THRE PROGRAMMED TIME-OF DAY OFF OF ALL INTERIOR SYSTEM PHOTOCELL ON ROOF FACING NORTH AND BARRIER IN PANEL TO SEPARATE NORMAL AND EMDOUBLE POLE SINGLE THROW RELAYS FOR ALL CITES:  ONTROLLED VIA DIGITAL SWITCH AND PROGRAMM LL ON TIME CLOCK OFF PER OWNER'S DIRECTION.  LL ON - PHOTOCELL OFF.  RELAY PANEL CONTROL DIAGRAM FOR ADDITIONAL	CIFICATIONS FOR REQUIREMENTS.  OVERRIDE SWITCHES AT PANEL FOR EACH SET POINT.  DDING OF CONDUCTORS SHALL BE THE SAME THROUGHOUT  PROGRAMMED TIME-OF DAY OFF OF ALL INTERIOR SPACE LIF  SYSTEM PHOTOCELL ON ROOF FACING NORTH AND CONNECT  BARRIER IN PANEL TO SEPARATE NORMAL AND EMERGENCY  DOUBLE POLE SINGLE THROW RELAYS FOR ALL CIRCUITS FETES:  ONTROLLED VIA DIGITAL SWITCH AND PROGRAMMED TIME OF AND TIME CLOCK OFF PER OWNER'S DIRECTION.  LL ON - PHOTOCELL OFF.  RELAY PANEL CONTROL DIAGRAM FOR ADDITIONAL CONTRO	CIFICATIONS FOR REQUIREMENTS.  OVERRIDE SWITCHES AT PANEL FOR EACH SET POINT.  DDING OF CONDUCTORS SHALL BE THE SAME THROUGHOUT CIRCUIT.  PROGRAMMED TIME-OF DAY OFF OF ALL INTERIOR SPACE LIGHTING R  SYSTEM PHOTOCELL ON ROOF FACING NORTH AND CONNECT TO REL  BARRIER IN PANEL TO SEPARATE NORMAL AND EMERGENCY CIRCUITS  DOUBLE POLE SINGLE THROW RELAYS FOR ALL CIRCUITS FED BY 2 PO  TES:  ONTROLLED VIA DIGITAL SWITCH AND PROGRAMMED TIME OF DAY 'OF  LL ON TIME CLOCK OFF PER OWNER'S DIRECTION.  LL ON - PHOTOCELL OFF.  RELAY PANEL CONTROL DIAGRAM FOR ADDITIONAL CONTROL REQUIF	OVERRIDE SWITCHES AT PANEL FOR EACH SET POINT.  DDING OF CONDUCTORS SHALL BE THE SAME THROUGHOUT CIRCUIT.  PROGRAMMED TIME-OF DAY OFF OF ALL INTERIOR SPACE LIGHTING RELAYS.  SYSTEM PHOTOCELL ON ROOF FACING NORTH AND CONNECT TO RELAY PANEL PROCESSOR.  BARRIER IN PANEL TO SEPARATE NORMAL AND EMERGENCY CIRCUITS.  DOUBLE POLE SINGLE THROW RELAYS FOR ALL CIRCUITS FED BY 2 POLE C.B.'S  TES:  ONTROLLED VIA DIGITAL SWITCH AND PROGRAMMED TIME OF DAY 'OFF' SCHEDULE.  LL ON TIME CLOCK OFF PER OWNER'S DIRECTION.	CIFICATIONS FOR REQUIREMENTS.  OVERRIDE SWITCHES AT PANEL FOR EACH SET POINT.  DOING OF CONDUCTORS SHALL BE THE SAME THROUGHOUT CIRCUIT.  PROGRAMMED TIME-OF DAY OFF OF ALL INTERIOR SPACE LIGHTING RELAYS.  SYSTEM PHOTOCELL ON ROOF FACING NORTH AND CONNECT TO RELAY PANEL PROCESSOR.  BARRIER IN PANEL TO SEPARATE NORMAL AND EMERGENCY CIRCUITS.  DOUBLE POLE SINGLE THROW RELAYS FOR ALL CIRCUITS FED BY 2 POLE C.B.'S  TES:  ONTROLLED VIA DIGITAL SWITCH AND PROGRAMMED TIME OF DAY 'OFF' SCHEDULE.  LL ON TIME CLOCK OFF PER OWNER'S DIRECTION.  LL ON - PHOTOCELL OFF.  RELAY PANEL CONTROL DIAGRAM FOR ADDITIONAL CONTROL REQUIRMENTS.	CIFICATIONS FOR REQUIREMENTS.  OVERRIDE SWITCHES AT PANEL FOR EACH SET POINT.  DOING OF CONDUCTORS SHALL BE THE SAME THROUGHOUT CIRCUIT.  PROGRAMMED TIME-OF DAY OFF OF ALL INTERIOR SPACE LIGHTING RELAYS.  SYSTEM PHOTOCELL ON ROOF FACING NORTH AND CONNECT TO RELAY PANEL PROCESSOR.  BARRIER IN PANEL TO SEPARATE NORMAL AND EMERGENCY CIRCUITS.  DOUBLE POLE SINGLE THROW RELAYS FOR ALL CIRCUITS FED BY 2 POLE C.B.'S  TES:  ONTROLLED VIA DIGITAL SWITCH AND PROGRAMMED TIME OF DAY 'OFF' SCHEDULE.  LL ON TIME CLOCK OFF PER OWNER'S DIRECTION.  LL ON - PHOTOCELL OFF.  RELAY PANEL CONTROL DIAGRAM FOR ADDITIONAL CONTROL REQUIRMENTS.							





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REVISION ADDENDUM 2			

ERAU PRODUCTION BUILDING EMBRY-RIDDLE AERONAUTICAL UNIVERSITY, DAYTONA BEACH, FLORIDA

E1.602

ADDENDUM 2-01/15/2020

Date 12/20/2019