ELECTRICAL SPECIFICATIONS

A: GENERAL PROVISIONS

1. THE WORK SHALL CONSIST OF FURNISHING LABOR, EQUIPMENT, AND MATERIALS TO PROVIDE THE COMPLETE INTEGRATED AND PROPER FUNCTIONING SYSTEMS AS SHOW ON THE DRAWINGS.
2. ALL WORK SHALL BE DONE IN CONFORMANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS AND ORDINANCES.
3. ALL EQUIPMENT AND MATERIALS SHALL BE NEW OR EXISTING IN CONFORMANCE WITH APPLICABLE PROVISIONS OF NEMA, ANSI, UL ETC...
4. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER TRADES SO AS TO AVOID INTERFERENCES.
5. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LAYOUT OF ELECTRICAL SYSTEMS. FIELD VERIFICATIONS OF DIMENSIONS IS DIRECTED.
6. SECURE PERMITS AND INSPECTIONS REQUIRED BY STATE AND LOCAL LAWS AND ORDINANCES.
7. UPON COMPLETION OF THE WORK, FURNISH TO THE OWNER CERTIFICATES OF FINAL INSPECTIONS AND APPROVALS FROM AUTHORITIES HAVING JURISDICTION.
8. ALL WORKS SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. FROM AUTHORITIES HAVING JURISDICTION.
9. CIRCUITS ON THE PLANS ARE TO DETERMINE LOAD AND PANEL SIZE. THE CONTRACTOR SHALL PROVIDE CIRCUITS AND ROUTING TO SUIT JOB CONDITIONS, AND BALANCE THE CONNECTED LOAD.
10. FURNISH AND INSTALL LIGHTING FIXTURES AND LAMPS AS CALLED FOR ON THESE PLANS. FIXTURES SHALL NOT BE SUPPORTED BY THE CEILING GRID BUT BY GUY WIRES FROM ABOVE.
11. CHECK EQUIPMENT FOR PROPER VOLTAGE, PHASE, AND AMP RATING BEFORE CONNECTION TO CIRCUITS.
12. THE ELECTRICAL SYSTEM SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED AS REQUIRED IN ARTICLE 250 OF THE NEC. ALL RACEWAYS TO HAVE EQUIPMENT GROUND CONDUCTOR, AND WHEN CROSSING BUILDING EXPANSION JOINTS, EXPANSION FITTING WITH BONDING JUMPERS SHALL BE USED.

B: RACEWAYS

1. ALL WIRING SHALL BE INSTALLED IN APPROVED RACEWAYS. ARMORED CABLE IS ALLOWED.
2. MINIMUM CONDUIT SIZE SHALL BE 1/2" TRADE SIZE.
3. USE FLEXIBLE CONDUIT FOR SHORT FINAL CONNECTIONS TO VIBRATION EQUIPMENT SUCH AS MOTORS AND TRANSFORMERS. LIQUID-TIGHT FLEXIBLE CONDUIT SHALL BE USED IN DAMP AND WET LOCATIONS.
4. EXPOSED CONDUIT SHALL BE RUN PARALLEL TO BUILDING LINES.
5. DO NOT INSTALL CONDUITS LARGER THAN 1/3 THE SLAB THICKNESS IN CONCRETE SLABS.
6. PROVIDE APPROVED FIRE STOPPING MATERIALS AT ALL PENETRATIONS THROUGH FIRE RATED FLOOR AND WALLS TO PREVENT THE PASSAGE OF SMOKE, FIRE, TOXIC GAS OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING OR AFTER A FIRE, AS REQUIRED BY ARTICLE 300-21 OF THE N.E.C.
7. PROVIDE CABLE SUPPORTS IN ACCORDANCE WITH ARTICLE 300 OF THE N.E.C.
8. PROVIDE EXPANSION FITTINGS IN CONDUIT RUNS CROSSING STRUCTURAL EXPANSION JOINTS.
9. PANEL BOARDS SHALL BE CIRCUIT BREAKER TYPE. VERIFY NUMBER AND SIZES OF BREAKERS.

C: CONDUCTORS

1. ALL WIRING SHALL BE COPPER.
2. CONDUCTORS SHALL BE RATED 600V. WITH TYPE THHN INSULATION.
3. WIRES SIZES #10 AWG AND SMALLER SHALL BE SOLID CONDUCTOR WITH TYPE THHN INSULATION. WIRES SIZES STRANDED WITH TYPE THHN INSULATION. CONTRACTOR TO USE HIS BEST DISCRETION IN THE INSTALLATION, LOCAL CODES SUPERSEDE.
4. MINIMUM CONDUCTOR SIZE SHALL BE #12. CONTROL WIRING MAY BE SMALLER.

D: LIGHTING PANELS

1. PROVIDE LIGHTING AND RECEPTACLE PANEL AS INDICATED ON THE PLANS AND AS SPECIFIED HEREIN. ALL PANELS SHALL BE DEAD FRONT,BOLT-ON CIRCUIT BREAKERS TYPE, PANELBOARDS AND SHALL BEAR THE U.L. LABEL AS WELL AS MEET ALL APPLICABLE NEMA REQUIREMENTS.
2. UNLESS OTHERWISE NOTED, TOP OF PANELS SHALL BE MOUNTED AT 6'A.F.F. TO TOP.
3. ALL PANELS SHALL HAVE TYPEWRITTEN CIRCUIT DIRECTORIES MOUNTED INSIDE OF DOOR.
4. PANELS SHALL BE SUITABLE FOR THE SERVICE RATING AND THE A.I.C. RATING INDICATED ON THE PANELS SCHEDULES. LABEL AS WELL AS MEET ALL APPLICABLE NEMA REQUIREMENTS.
5. ALL BREAKERS SHALL BE FULL SPACE, INDIVIDUAL FRAME TYPE. NO "PIGGY-BACK"OR TANDEM BREAKERS WILL BE PERMITTED.

E: SAFETY SWITCHES

1. ALL NEW SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE "HD", FUSIBLE OR NON-FUSIBLE WITH POLES, AMPERE AND SERVICE RATINGS AS INDICATED ON THE PLANS. LUGS SHALL BE U.L. LISTED FOR CU.-AL.
2. ENCLOSURES FOR SAFETY SWITCHES SHALL BE NEMA 1, EXCEPT FOR SWITCHES MARKED "WP" (WEATHERPROOF) SHALL BE NEMA 3R.

F: FUSES

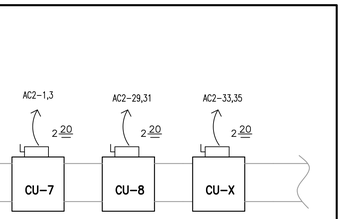
1. ALL NEW FUSES SHALL HAVE A 200,000 AMP RMS SYMMETRICAL INTERRUPTING RATING UNLESS OTHERWISE NOTED. LOWER RATING MAY BE USED ONLY UPON POWER COMPANY ISSUING A LETTER WITH FAULT CURRENT ANALYSIS JUSTIFYING LOWER RATING. A COPY OF A LETTER MUST BE FORWARDED TO THE ARCHITECT OF RECORD.
2. NEW FUSES RATED 0 TO 600 AMPS SHALL BE AS FOLLOW:
   a) CIRCUIT BREAKER PANEL PROTECTION – U.L. CLASS RK-1, DUAL ELEMENT (BUSSMANN "LOW PEAK" OR EQUAL)
   b) MOTOR CIRCUIT PROTECTION –U.L. CLASS RK-5, DUAL ELEMENT (BUSSMANN "FUSETRON" OR EQUAL)
3. NEW FUSES RATED 601 AMPS OR LARGER SHALL BE U.L. CLASS L TIME DELAY (BUSMANN "HI-CAP" OR EQUAL).

LEGEND

	DUPLEX RECEPTACLE AT 18" A.F.F. U.O.N.
	DUPLEX RECEPTACLE SPLIT CIRCUIT OR AS INDICATED ON PLAN
	QUAD RECEPTACLE AT 18" A.F.F. U.O.N.
	240/208 RECEPTACLE 30 AMP OR LARGER
	240/208V RECEPTACLE 20 AMP
	SINGLE RECEPTACLE 20 AMP
	FLOOR FLUSH MOUNTED DUPLEX RECEPTACLE
	SWITCH
3	THREE WAY SWITCH
D	DIMMER SWITCH
BZ	BUZZER W/ TRANSFORMER
	FLOOR MOUNTED DATA/PHONE RECEPTACLE
	DATA/PHONE RECEPTACLE AT 18" AFF U.O.N.
	FAN MOTOR
	DISCONNECT SWITCH
P.O.S.	POINT OF SERVICE
	EMPTY CONDUIT FOR DATA
MTS	DISCONNECT SWITCH
	IN CEILING WIRELESS ACCESS POINT
	GENERATOR RECEPTACLE
TV	TV LOCATION – J BOX & EMPTY 1" CONDUIT TO ABOVE CEILING

GENERAL NOTES

1. DO NOT INSTALL POWER OR DATA BOXES BACK-TO-BACK ON RATED WALLS
2. CONTRACTOR MUST OBTAIN APPROVAL OF ALL RECEPTACLES AND PHONE/DATA OUTLET LOCATIONS BEFORE ROUGH-IN
3. NEW BREAKERS SHALL MATCH AIC RATINGS OF PANEL



NOTE: EXISTING SERVICE RECEPTACLES ON HOUSE PANEL

CU ON EXISTING ROOF RACKS
NTS

PROVIDE EQUIPMENT GROUNDING CONDUCTORS PER NEC

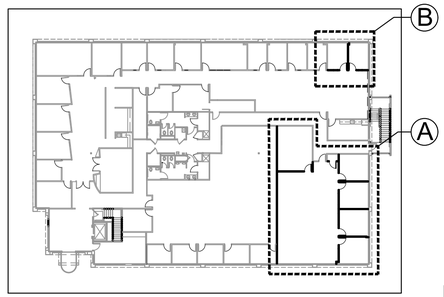
PROVIDE PANEL CIRCUIT BREAKERS MATCHING PANEL A/C RATING

SEE SHEET T.1 FOR PROJECT CLOSE-OUT NOTES

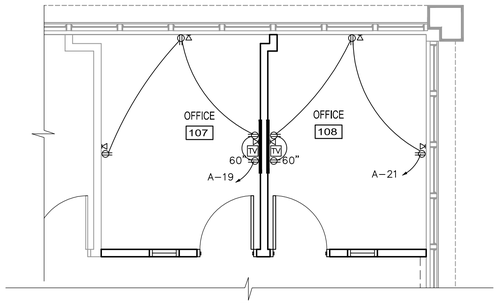
DESIGN VALUES:
SERVICE WIRES VOLTAGE DROP: 2%
BRANCH CIRCUITS VOLTAGE DROP: 3%

KEYNOTES

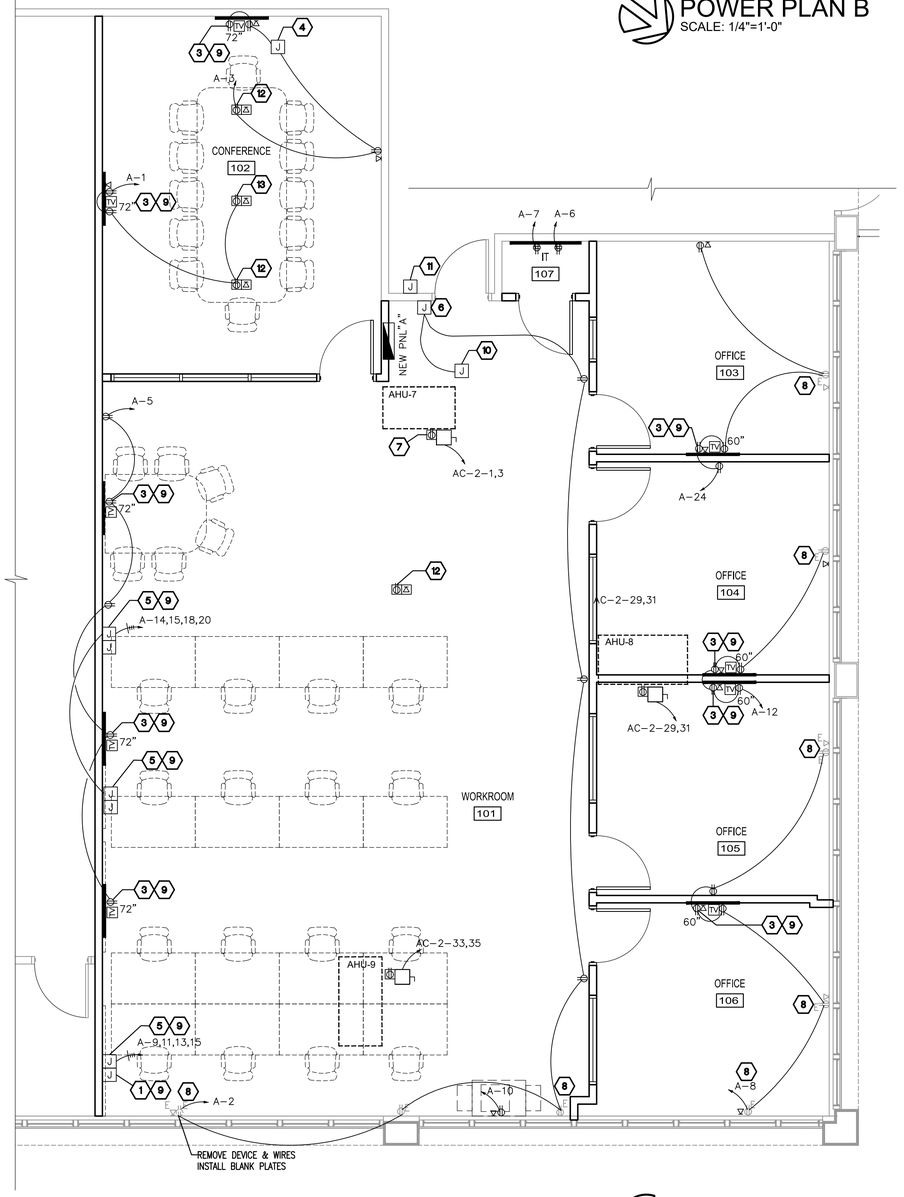
1. 6X6 J-BOX FOR DATA W/ 1 1/2" CONDUIT TO ABOVE CLG W/PULL STRINGS. LOCATE 18" A.F.F. TO CENTER. (DATA FOR WORKSTATIONS)
2. NOT USED
3. CLOCK TYPE RECEPTACLE
4. ELECTR. J-BOX ABOVE CLG. FOR MOTORIZED SCREEN, COORDINATE EXACT LOCATION WITH TENANT. VERIFY TYPE OF CONNECTION REQUIRED.
5. 6X6 J-BOX FOR POWER W/ 1 1/2" CONDUIT TO ABOVE CLG W/PULL STRINGS. LOCATE 18" A.F.F. TO CENTER. (POWER FOR WORKSTATIONS)
6. J-BOX FOR MAGNETIC LOCK POWER (ABOVE CEILING)
7. RECEPTACLE FOR CONDENSATE PUMP
8. REWIRE EXISTING RECEPTACLE AS SHWON. VERIFY LOCATION IN FIELD. IF NOT IN LOCATION SHOWN, INSTALL NEW RECEPTACLE
9. CONSULT EXACT POSITION WITH TENANT IN FIELD PRIOR TO INSTALL
10. REQUEST TO EXIT DEVICE AT CEILING
11. ACCESS CONTROL READ DEVICE @ 48" AFF
12. FLOOR POWER & DATA RECESSED J-BOX WITH 1-HR RATED ENCLOSURE. USE HUBBELL SYSTEM ONE FRPT, UL LISTED (UP TO 4HR), INTEGRAL POWER & MULTIMEDIA BOX. FOLLOW MANUF. SPECIFICATIONS FOR INSTALLATION. PROVIDE COVER PLATE. COORDINATE FINAL LOCATION WITH TENANT.
13. POWER & DATA J-BOXES ABOVE CEILING FOR PROJECTOR.



KEY PLAN
N.T.S.



POWER PLAN B
SCALE: 1/4"=1'-0"



POWER PLAN A
SCALE: 1/4"=1'-0"

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REVISIONS / DATE

Interior Improvement for Advantone Florida, Inc.
855 SW 78th Ave. - Atrium "C" - Suite #202
Plantation, Florida 33324

LESLAW A. CZACZYK AIA
AR 00015391

PROJ. NO.	16180.well
DESIGNED BY	LAC
DRAWN BY	MSB
DATE	07/25/16
SCALE	AS SHOWN

POWER PLAN NOTES

SHEET E.1