1. ALL CONDUITS ARE SHOWN DIAGRAMMATICALLY, EXACT RUNS SHALL BE	23. JUNCTION & PULL BOXES: DO NOT LOCATE EXPOSED IN FINISH SPACES	COMMUNICATION SYMBOLS			POWER SYMBOLS		ABBREVIATIONS		
OTHERWISE, AND SHALL NOT IN ANY WAY CUT OR ALTER THE WORK OF ANY OTHER CONTRACTOR, EXCEPT WITH THE WRITTEN CONSENT OF AND	 ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION. FOR RECEPTACLE & OUTLETS MOUNTING HEIGHTS AND POSITION (HORIZONTAL, VERTICAL), COORDINATE WITH ARCHITECT, OWNER, REPRESENTATIVE & DATA/ COMMUNICATION CONSULTANT. CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS INDICATED ON DETAILS SHEETS, PLANS, SPECIFICATIONS AND ALL PERTINENT EQUIPMENT REQUIRED FOR A COMPLETE WORKABLE SYSTEM. USE OF ISOLATED TYPE GROUNDING CONDUCTOR FOR IG TYPE RECEPTACLES, PLUG MOLDS & EQUIPMENT DOES NOT RELIEVE REQUIREMENT FOR GROUNDING CONDUIT SYSTEM, DEVICES AND EQUIPMENT AS REQUIRED BY ALL APPLICABLE CODES. PROVIDE AND INSTALL GROUNDING FITTING, EQUIPMENT GROUND WIRING ETC. AS REQUIRED. ALL CONDUITS, TRANSFORMERS ETC. SHALL BE SUPPORTED FROM STRUCTURAL STEEL ONLY. COORDINATE WITH GENERAL CONTRACTOR. ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT IN ELECTRICAL AND SERVICE SWITCHBOARD ROOM SHALL BE INSTALLED ON 4" CONCRETE PAD AS REQUIRED TO SUPPORT EACH SECTION OF EQUIPMENT. COORDINATE WITH GENERAL CONTRACTOR. PROVIDE BARRIERS IN ALL PULL BOXES FOR CONDUIT SETS. 	 ▼ TELEPHONE OUTLET. PROVIDE & INSTALL CAT & CABLE FROM OUTLET LOCATION TO NEAREST SERVER ROOM IN ¾" CONDUIT. MOUNT OUTLET 18" AFF UNLESS OTHERWISE NOTED. ▼ COMBINATION TELEPHONE/DATA OUTLET. PROVIDE & INSTALL (2) CAT. & CABLES FROM OUTLET LOCATION TO NEAREST SERVER ROOM EACH IN ¾" CONDUIT. MOUNT 18" AFF UNLESS OTHERWISE NOTED. ▼ TELEPHONE WALL OUTLET. PROVIDE & INSTALL CAT & CABLE FROM OUTLET LOCATION TO NEAREST SERVER ROOM IN ¾" CONDUIT. MOUNT OUTLET 48" AFF UNLESS OTHERWISE NOTED. ▼ DATA OUTLET. PROVIDE & INSTALL CAT. & CABLE FROM OUTLET LOCATION TO NEAREST SERVER ROOM EACH IN ¾" CONDUIT. MOUNT ON TO NEAREST SERVER ROOM EACH IN ¾" CONDUIT. 18" AFF UNLESS OTHERWISE NOTED. ▼ Q QUAD DATA OUTLET. PROVIDE AND INSTALL (4) CAT. & CABLE FROM OUTLET LOCATION TO NEAREST SERVER ROOM EACH IN ¾" CONDUIT. MOUNT 18" AFF UNLESS OTHERWISE NOTED. ▼ WIRELESS ACCESS POINT- CEILING MOUNT. PROVIDE (2) CAT. & CABLES FROM OUTLET LOCATION TO NEAREST SERVER ROOM EACH IN ¾" CONDUIT. MOUNT 18" AFF UNLESS OTHERWISE NOTED. ♥ WIRELESS ACCESS POINT- CEILING MOUNT. PROVIDE (2) CAT. & CABLES FROM OUTLET LOCATION TO NEAREST SERVER ROOM OUTLET LOCATION TO NEAREST SERVER ROOM EACH IN ¾" CONDUIT. ♥ TV OUTLET. PROVIDE & INSTALL PULL STRING FROM OUTLET LOCATION TO NEAREST SERVER ROOM EACH IN ¾" CONDUIT. MOUNT 18" AFF UNLESS OTHERWISE NOTED. ♥ ACCESS CONTROL CARD READER DEVICE, SEE SECURITY. ♥ SECURITY CAMERA. PROVIDE INSTALL CAT. & CABLE FROM JUNCTION BOX TO NEAREST SERVER ROOM IN ½" CONDUIT. X DENOTES QUANTITY OF CAMERAS. SEE SECURITY DRAWINGS. ♥ M. PROVIDE INSTALL CAT. & CABLE FROM JUNCTION BOX TO NEAREST SERVER ROOM IN ½" CONDUIT. SEE SECURITY DRAWINGS. NTERCOM STATION. PROVIDE INSTALL CAT. & CABLE FROM JUNCTION BOX TO NEAREST SERVER ROOM IN ½" CONDUIT. SEE SECURITY DRAWINGS. (PIM PIM. PROVIDE INSTALL CAT. & CABLE FROM LOCATION TO NEAREST SERVER ROOM IN ½" CONDUIT. SEE SECURITY			 SPEC GRADE NEMA 5-20R RECEPTACLE. -GFI INDICATES GROUND FAULT INTERRUPTION -WP INDICATES WEATHER PROOF ENCLOSURE -CR INDICATE PROVIDE WITH CORD REEL, 40 FEET, PENDENT MOUNT SPEC GRADE NEMA 5-20R RECEPTACLE. MOUNT AT 44" AFF OR 6" ABOVE COUNTER, UON. -GFI INDICATES WEATHER PROOF ENCLOSURE NEMA 5-20R SINGLE RECEPTICAL IP, 3 WIRE, 125V QUAD RECEPTACLE. -GFI INDICATES WEATHER PROOF ENCLOSURE NEMA 5-20R SINGLE RECEPTICAL IP, 3 WIRE, 125V QUAD RECEPTACLE. -GFI INDICATES WEATHER PROOF ENCLOSURE NEMA 5-20R SINGLE RECEPTICAL ON CEILING-MOUNTED CABLE REEL SPECIAL PURPOSE CONNECTION. JUNCTION BOX, SIZE PER N.E.C. NFF BY ELECTRICAL CONTRACTOR. SHALL HAVE THE SAME # OF POLES AS CONNECTING CIRCUIT UNLESS OTHERWISE NOTED. 3P, FUSED DISCONNECT SWITCH, FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SHALL HAVE THE SAME # OF POLES AS CONNECTING CIRCUIT UNLESS OTHERWISE NOTED. 3P, FUSED DISCONNECT SWITCH, FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SHALL HAVE THE SAME # OF POLES & AMPERE RATING AS CONNECTING CIRCUIT UNLESS OTHERWISE NOTED. MOTOR STARTER FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. MOTOR STARTER FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CON		A AMPERE JB JUNCTION BOX ACT ACDIC CELLING TILE KCMIL MCIONATIC DAMPER KCMIL VOLT AMLE AP AUTOMATIC DAMPER KV KLO VOLT KV AF AMPERE FRAME KV KLO VOLT MPERE AF ABOVE FINISHED FLOOR KW KLO VOLT MPERE AL AUMINUM LP LIGHTING PANEL L AL AUMINUM LP LIGHTING PANEL L AUTOMATIC TRANSFER SWITCH LTG LIGHTING PANEL MCG AUTOMATIC TRANSFER SWITCH LTG LIGHTING PANEL MCG AWG AMERICAN WIRE GAUGE MCG MAIN DISTRIBUTION PANEL C CONDUIT MDP MAIN DISTRIBUTION PANEL C C C CONDUIT MTG MOUNTER MOUNTENG CH CRECHT TRANSFORMER N NEUTRAL NOT IN CONTRACT CU COPPER NIC NOT IN CONTRACT DP DF DISINKING FOUNTAIN <t< th=""></t<>		
UNDER THE DIRECTION OF THE ARCHITECT AND/OR GENERAL CONTRACTOR. 15. THE ELECTRICAL CONTRACTOR SHALL SECURE ALL APPROVALS AND CERTIFICATES AND PAY ALL FEES FOR ALL THE WORK INSTALLED. CERTIFICATES SHALL BE DELIVERED TO THE GENERAL CONTRACTOR BEFORE FINAL PAYMENT WILL BE MADE.	AND MECH. ROOMS SLAB PENETRATING WALLS, ROOF & FLOOR SLABS. ALL ROOF AND MECH. ROOMS SLAB PENETRATIONS SHALL BE WATERPROOF. METHOD OF PENETRATIONS & FIRE/WATER WATER PROOFING SHALL BE APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER, COORDINATE WITH GENERAL CONTRACTOR. 38. ELECTRICAL CONTRACTOR SHALL BECOME FAMILIAR AND COMPLY WITH OWNERS BUILDING STANDARDS FOR CONSTRUCTION.				 CONDUIT HOME RUN TO DESIGNATED PANEL. REFER TO PANEL SCHEDULE FOR CONDUIT & CABLE QUANTITY AND SIZE. DOUBLE HOME RUN TRIPLE HOME RUN 	HZ IC IG, I IMC	HERTZ INTERRUPTING CAPACITY ISOLATED GROUND INTERMEDIATE METAL CONDUIT	WP WEATHER PROOF W WATT XFMR TRANSFORMER	
16. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST APPLICABLE VERSION OF THE NEC AS WELL AS ALL STATE AND LOCAL CODES.	39. ALL FINAL CONNECTIONS TO VIBRATING EQUIPMENT (MOTORS, GENERATORS ETC.) SHALL BE THROUGH A LIQUID TIGHT FLEXIBLE METAL CONDUIT.						CTRICAL LINE TYPES	GENERAL SYMBOLS	
17. THE DRAWINGS INDICATE AND THE SPECIFICATIONS DESCRIBE THE GENERAL ARRANGEMENTS AND LOCATION OF OUTLET BOXES, ETC. THE CONTRACTOR SHALL, WITHOUT EXTRA COST TO THE OWNER, MAKE ALL	40. LOCATION OF ALL SLAB PENETRATIONS FOR SLEEVES & CONDUITS SHALL BE REVIEWED & APPROVED BY STRUCTURAL ENGINEER & ARCHITECT.				 TRANSFORMER 120V, OR 208V, 1P, MOTOR STARTER WITH OVERLOADS TO SERVE AS 	_/_/_/_	or EXISTING TO BE REMOVED EXISTING TO REMAIN	POINT OF CONNECTION BETWEEN NEW AN EXISTING WORK POINT OF DISCONNECT	
REASONABLE MODIFICATIONS IN THE WORK AS MAY BE REQUIRED TO PREVENT CONFLICT WITH EXISTING CONDITIONS, THE WORK OF OTHER TRADES AND FOR THE PROPER INSTALLATION OF THE WORK.	41. CONTRACTOR SHALL WIRE NO MORE THAN EIGHT CONVENIENCE RECEPTACLES TO A 20A SINGLE POLE CIRCUIT. UTILIZE 2-#12&1 #12 GND IN ¾" CONDUIT & 1-20A SINGLE POLE CIRCUIT BREAKER FOR EACH CIRCUIT.				DISCONNECTING MEANS. COORDINATE WITH OTHER TRADES.		NEW DEVICE NEW WIRING	INDICATES SECTION LETTER	
18. PRIOR TO SUBMISSION OF BID PROPOSAL, THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE CAREFULLY THE EXISTING CONDITIONS AND THE DIFFICULTIES THAT WILL BE INCURRED DURING THE PERFORMANCE OF HIS WORK.	INSTALL ADDITIONAL CIRCUIT AS NECESSARY TO MEET THIS REQUIREMENT. 42. ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE SEALED				TRANSFORMER (SIZE SHOWN ON PLAN OR ONE-LINE DIAGRAM)		NEW FIXTURE	ENERGY CODE STATEMENT:	
 A. VERIFY & COORDINATE CONDUIT ROUTING. B. VERIFY WITH GENERAL CONTRACTOR SCOPE OF WORK ASSOCIATED WITH RIGGING OF EQUIPMENT TO BE PREPURCHASED. 19. CLAIMS FOR ADDITIONAL COMPENSATION ARISING DUE TO THE FAILURE OF THE CONTRACTOR TO FULLY UNDERSTAND THE SITE CONDITIONS SHALL NOT BE PAID FOR BY ANY OTHER PARTY. 20. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. CONDUIT OVER 10 FEET IN WHICH WIRING IS NOT INSTALLED-FURNISH PULL STRING. 21. DO NOT PULL THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32 DEG F (0 DEG C). PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUITS AS REQUIRED BY CODE. 	 MATERIAL AND OR SYSTEM. 43. CONTRACT CLOSE OUT: IN THE PRESENCE OF THE OWNER, ENGINEER OR ARCHITECT; DEMONSTRATING OPERATION OF SYSTEMS AND THAT ALL SPECIFICATIONS HAVE BEEN MET TO THE SATISFACTION OF ALL PARTIES. 44. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE ALTERATIONS AND/OR NEW CONSTRUCTION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS TO PROVIDE COMPLETE NEW SYSTEMS IN EVERY RESPECT, CAPABLE OF OPERATING AS DESIGNED. IT IS NOT INTENDED THAT EVERY FITTING, MINOR DETAIL OR FEATURE BE SHOWN ON DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DETAIL NECESSARY FOR COMPLETION OF THESE SYSTEMS IN ACCORDANCE WITH GOOD PRACTICE. 				100A-3P FUSE SWITCH - 100A FUSE - 3 POLE Image: Motor Motor Image: Motor ELECTRIC METER Image: Motor GROUND ROD, 5/8" DIAMETER x 10' LONG Image: Motor ADA PUSH BOTTON DOOR SYSTEM, PROVIDED BY G.C., INSTALLED BY E.C.	SYMBC	LIGHT FIXTURE SCHEDU DL MANUFACTURER MODEL NUMBER DESCRI MARK ARCHITECTURAL LIGHTING S2PID-LLP-XXFT-MSL8- 90CRI-35K-400LMF-I80CRI- 135K-1300LMF-SCT-NODIM- FLL-MVOLT-WHTT-F2/36A- SQCY-SLVCY-BCRD S04	IPTION LAMP DED PENDANT FIXTURE, 400 LUMENS PER LED DIRECT, 300 LUMENS PER FOOT INDIRECT, 5.2 W/F 13, 3500K CCT, WHITE CORD, SILVER FINISH. 134 L/W	
22. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. INSTALL SWITCH ON SIDE OPPOSITE HINGE; VERIFY FINAL DOOR HINGE LOCATION IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION. SWITCHBOARDS, PANEL BOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT SERVICING OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.							L12LITHONIALSIX-4FT-3000LM-90CRI- 3500K (L13LITHONIALSIX-8FT-4000LM-90CRI- 35K-FFR-SWL-MIN10-ZT- MVOLT-MW8 FOOT CRI, 350L13LITHONIAS1PD-LSL-8FT-MSL8-90CRI- 35K-800LMF-SCT-MIN1-FILL MVOLT-SLVT-ZT-F2/36A- SQCY-SLVCY-WCRDPENDA 90+ CRI WOODL14MARK ARCHITECTURAL LIGHTINGS1RD-LOP-8FT-FL-90CRI- 35K-800LMF-SCT-MIN1-FILL MVOLT-SLVT-ZTPENDA 90+ CRI WOODL15MARK ARCHITECTURAL LIGHTINGS1RD-LOP-8FT-FL-90CRI- 35K-800LMF-SCT-MIN1-FILL MVOLT-SLVT-ZTRECESS 90+ CRI 90+ CRIL21GOTHAMEV06-35/20-AR-LD-MWD- MVOLT-90CRI6" ROU 90+ CRI PO+ CRIL22JUNOWF6-SWW5-90CRI-MW- M66" ROU 90+ CRI FOR US	N STRIP TROFFER, 3000 LUMENS, 90+ CRI, CCT, WHITE FINISH24.7 WATTS 121 L/W1 LAYIN STRIP TROFFER, 4000 LUMENS, 90+ 500K CCT, DIMMING DRIVER, WHITE FINISHLED 29.8 WATTS 134 L/WANT LINEAR FIXTURE, 8 FEET, 6400 LUMENS, il, 3500K CCT, MOUNTED IN-LINE WITH O SLATSLED 56.0 WATTS 114 L/WSED LINEAR FIXTURE, 8 FEET, 6400 LUMENS, il, 3500K CCT, RECESSED IN PLASTER CEILINGLED 56.0 WATTS 114 L/WJND DOWNLIGHT, RECESSED, 2000 LUMENS, il, 3500K CCT, WHITE FINISHLED 19.7 WATTS 101 L/WJND DOWNLIGHT, RECESSED, 1000 LUMENS, il, SELECTABLE CCT, WHITE FINISH, RATED SE IN WET LOCATIONS, SET TO 3500K CCTLED 13 WATTS 74 L/W	
		SYMBOL	MANUFACTURER	MODEL NUMBER	L SCHEDULE EQUIPMENT SCHEDULE DESCRIPTION	\bigcirc	ALCON 15209-16-17L-35K-9-AL-SL- RESIST/	IMMING DRIVER, WHITE FINISH 133 L/W BAY SUSPENDED ROUND FIXTURE, IMPACT LED ANT LENS, 17000 LUMENS, 90+ CRI, 3500K 156 WATTS	
		PP-1	nLIGHT AIR	rPP20-DS-EFP-G2	LIGHTING POWER PACK WITH 0-10V WIRED DIMMING, WIRELESS COMMUNICATIONS		LITHONIA LUMENWERX LUMENWE	LUMINUM FINISH108 L/WUSTRIAL FIXTURE, 7000 LUMENS, 80+ CRI, CCT. ORDER WITH ADJUSTABLE AIRCRAFTLEDMOUNTING KIT147 L/WSED LINEAR FIXTURE, 8 FEET, 8000 LUMENS, I, 3500K CCT, DIMMING DRIVER, RATED FORLED84.6 WATTS	
			nLIGHT AIR		DUAL TECHNOLOGY CEILING OCCUPANCY SENSOR, HARDWIRED POWER, WIRELESS COMMUNICATIONS SINGLE PUSHBUTTON WALL TOGGLE SWITCH, HARDWIRED POWER,		LUMENWERX 90-1000-35-4FT0IN-UNV- 90+ CRI	SED LINEAR FIXTURE, 4 FEET, 4000 LUMENS, LED II, 3500K CCT, DIMMING DRIVER, RATED FOR 42.3 WATTS	
		\$1x		RPODB-WH-G2	WIRELESS COMMUNICATIONS		LITHONIA MVOLT-CLP-GRY 80+ CRI	WRAP STAIRWELL FIXTURE, 3000 LUMENS, II, 3500K CCT, VANDAL RESISTANT IOR WALL PACK, 4000 LUMENS, 80+ CRI, CCT, INTEGRAL PHOTOCELL CONTROL IOS L/W	
		\$2X		RPODB-2P-WH-G2	WIRELESS COMMUNICATIONS SINGLE PUSHBUTTON WALL DIMMING SWITCH, HARDWIRED POWER,	0 	.92 GOTHAM IVO6CYL-SC-D-15LM-35K- 90CRI-25D-MD-MIN1-266-ZT- L7-JBX-WL-BEV-BZR-LD-DDB 6" x 6" CCT, W .92	CYLINDER, 1700 LUMENS, 90+ CRI, 3500K LED VET LOCATION LISTED 22.1 WATTS 77 L/W 77 L/W DOOR LINEAR FIXTURE, VANDAL LED CANT, 3000 LUMENS, 80+ CRI, 3000K CCT, 25 WATTS	
		\$1D \$2D	nLIGHT AIR	RPODB-DX-WH-G2	WIRELESS COMMUNICATIONS. DUAL PUSHBUTTON WALL DIMMING SWITCH, HARDWIRED POWER, WIRELESS COMMUNICATIONS		L93 OCC SENSO PLACER-A-P1-90CRI-35K- WALL M HYDREL 120-30DEG-FLC-WMC-S3- CRI, 350 L3-C1-DBL BLACK BOULAR	DCATION LISTED, INTEGRAL MOTION 25 WATTS DR 120 L/W MOUNTED ACCENT LIGHT, 650 LUMENS, 90+ LED 500K CCT, OUTDOOR LOCATION LISTEN, 8 WATTS FINISH 81 L/W RD FIXTURE, 36" OVERALL HEIGHT, 1100 LED	
		т 	nLIGHT AIR	RES7-PDT-ACBK-180D-	IN-FIXTURE OCCUPANCY AND PHOTOCELL SENSOR AND LIGHTING	0	L95 LITHONIA RAB SLIM-37-Y/480-PC2	IOR WALL PACK, 4000 LUMENS, 80+ CRI, CCT, INTEGRAL PHOTOCELL CONTROL GENCY WALL PACK EGRESS LIGHT WITH	
							BEGHELLI BBX-SE-BLK-AT INTEGR	RAL 90 MINUTE BATTERY BACKUP, BLACK LED I, AUTOTEST CAPABLE	
		\$ ĸ	nLIGHT AIR	nPODA KEY	KEYED TOGGLE SWITCH FOR MANUAL-OFF OVERRIDE OF LIGHTING CIRCUITS. PROVIDE (4) KEYS TO FACILITY. WHITE COVER PLATE.		BEGHELLI I ATX-SA-LR-LL-LL-AT I	JP, AUTOTEST CAPABLE	

