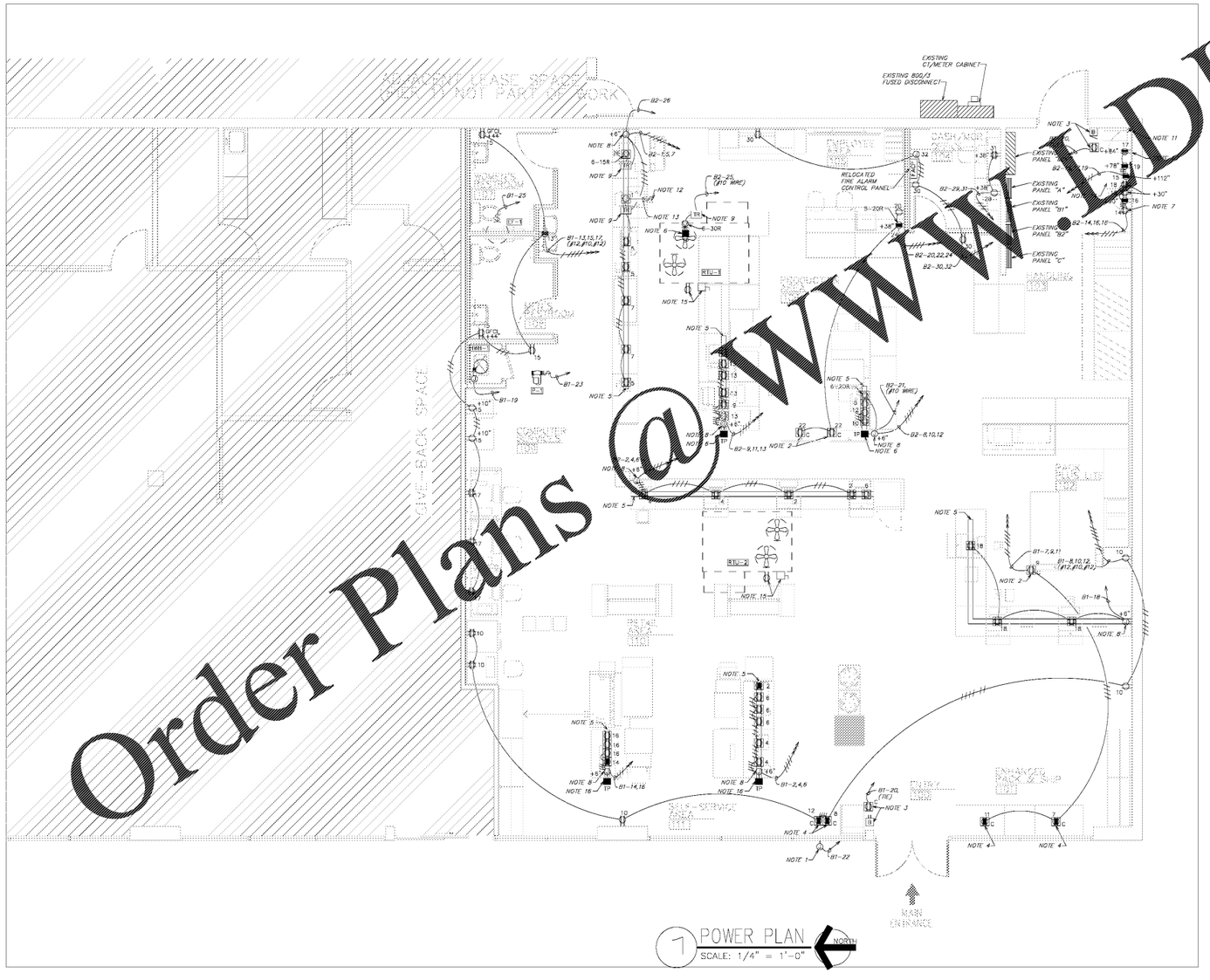
ELECTRICAL RESPONSIBILITIES MATRIX

L – LANDLORD GC
C – TENANT ELECTRICAL CONTRACTOR
F – FEDEX OFFICE
V – VENDOR
E – EXISTING TO REMAIN

		FURNISH	INSTALL	RESPONSIBILITY NOTES
	ELECTRICAL SYSTEMS			
1	MAIN OVERCURRENT DEVICE	E	E	
2	SERVICE ENTRANCE CONDUIT	E	E	
3	SERVICE ENTRANCE FEEDERS	E	E	
4	ELECTRICAL METER REQUIREMENTS	E	E	
5	TENANT ELECTRICAL PANELS	E	E	
6	ELECTRICAL PANEL – CIRCUIT BREAKERS	E/C	E/C	
7	SURGE PROTECTION DEVICE (SPD)	C	C	SEE E–3.0 ONE–LINE DIAGRAM
8	LIGHT FIXTURES AND LAMPS	E/F	E/C	SEE E–2.0 LUMINAIRE SCHEDULE
9	LIGHTING CONTROLS	C	C	
10	OUTLETS AND SWITCHES	C	C	
11	RACEWAY	F	C	
12	TELE–POWER POLE	E/F	E/C	
13	GENERAL CONDUIT AND WIRING	C	C	
14	TELEPHONE CONDUIT W/ PULL WIRE	C	C	SEE KEYED NOTE 11
15	TELEPHONE CABLING	–	–	SEE DC–1.0
16	TELEPHONE EQUIPMENT	–	–	SEE DC–1.0
17	P.O.S. DATA CONDUIT	–	–	SEE DC–1.0
18	P.O.S. DATA CABLING	–	–	SEE DC–1.0

DATA & COMMUNICATIONS PLAN NOTES:

1. PROVIDE DEDICATED OR SEPARATE CONDUITS FOR ALL POS DATA LINES. DO NOT SHARE WITH OTHER TELEPHONE OR DATA LINES.
2. PROVIDE JUNCTION BOX (PULL BOX) FOR EVERY TWO 90 DEGREE TURNS IN CABLE CONDUIT AND FOR FIXTURE WHIP CONNECTIONS
3. ALL CABLE CONDUIT SHALL BE A MINIMUM OF 1" DIAMETER.
4. ALL CABLE CONDUIT UNDER SLAB SHALL BE A MINIMUM OF 1" DIA CONDUIT.
5. PROVIDE 1" DIAMETER CONDUIT FOR CABLE RUNS OF 4 CABLES OR LESS.
6. PROVIDE 1 1/2" DIAMETER CONDUIT FOR CABLE RUNS OF BETWEEN 5 AND 10 CABLES
7. DO NOT BUNDLE MORE THAN 10 CABLES IN ANY ONE CONDUIT.
8. TERMINATE ALL CABLE CONDUITS INSIDE WALLS IN CLEAN AREA 6" ABOVE CEILING.
9. VERIFY ALLOWED USE OF REGULAR CABLE IN PLENUM SPACES WITH LOCAL CODE OFFICIALS. PROVIDE PLENUM RATED CABLE WHEN REQUIRED BY LOCAL AUTHORITIES. PROVIDE CONDUIT FOR CABLE RUNS WHEN REQUIRED BY LOCAL AUTHORITIES.
10. MOUNT ALL DATA OUTLET J–BOXES AT THE SAME HEIGHT AS THE ELECTRICAL OUTLET J–BOXES. ALIGN DATA AND ELECTRICAL OUTLETS VERTICAL AND HORIZONTAL.
11. ELECTRICAL OUTLETS AND VOICE/ DATA RECEPTACLES ARE TO BE GANGED TOGETHER AT THE MANAGER'S WORK AREA/DESK.



1 POWER PLAN
SCALE: 1/4" = 1'–0"

GENERAL ELECTRICAL EXISTING CONDITIONS NOTES:

A. ANY EXISTING CONDITIONS INDICATED IN THIS SET OF DRAWINGS ARE BASED ON INFORMATION PROVIDED BY OTHERS AND POSSIBLE LIMITED FIELD VERIFICATION. THE CONTRACTOR SHALL ADJUST FOR ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.
B. THE LANDLORD'S CONTRACTOR SHALL VISIT THE PROJECT SITE, REVIEW EXISTING CONDITIONS AGAINST THE CONTRACT DOCUMENTS, AND FAMILIARIZE HIMSELF WITH THE WORK PRIOR TO BIDDING AND START OF THE WORK. BY SIGNING THE CONTRACT, THE CONTRACTOR ACKNOWLEDGES THE SITE VISIT HAS BEEN COMPLETED AND THE EXISTING CONDITIONS ARE ACCEPTED.
C. THE LANDLORD'S CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING EQUIPMENT, DEVICES, AND LUMINAIRES AS INDICATED AND/OR AS REQUIRED TO ALLOW FOR INSTALLATION AND CONSTRUCTION OF THE NEW WORK. REMOVE ALL EQUIPMENT, DEVICES, LUMINAIRES, CONDUITS, SUPPORTS, HANGERS, ETC., THAT ARE NOT SHOWN AND ARE REQUIRED TO BE REMOVED IN ORDER TO CONSTRUCT THE NEW WORK.
D. ELECTRICAL CIRCUITS THAT ARE TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY. CONDUCTORS SHALL BE REMOVED FROM THE ITEM TO BE DEMOLISHED TO THE SOURCE OVERCURRENT DEVICE. RACEWAYS WHICH ARE INSTALLED IN OR BELOW FLOORS OR WITHIN WALLS MAY BE ABANDONED, BUT ALL OVERHEAD OR EXPOSED RACEWAYS SHALL BE REMOVED. EXPOSED RACEWAYS TO BE ABANDONED SHALL BE REMOVED AND SHALL BE CUT OR CHISELED AT LEAST 2" INTO THE WALL OR FLOOR AND THE OPENING GROUTED SMOOTH.
E. MAINTAIN CONTINUITY OF EXISTING CIRCUITS AS REQUIRED TO PROVIDE POWER TO REMAINING EQUIPMENT, DEVICES, AND LUMINAIRES THAT ARE NOT BEING REMOVED.
F. ANY EXISTING FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION THROUGHOUT CONSTRUCTION. AUTOMATIC SMOKE DETECTORS IN THE AREA OF CONSTRUCTION SHALL BE DISCONNECTED AND TEMPORARILY REPLACED WITH HEAT DETECTORS WHEN THE SPACE IS STAFFED BY THE (FEDEX OFFICE AND/OR LANDLORD) CONTRACTOR IN ACCORDANCE WITH THE APPROVED FIRE SAFETY PROCEDURES OF THE OWNER AND THE LOCAL FIRE MARSHAL, BUT SHALL BE REACTIVATED WHENEVER THE SPACE IS NOT OCCUPIED BY THE (FEDEX OFFICE AND/OR LANDLORD) CONTRACTOR. AUTOMATIC SMOKE DETECTORS SHALL BE PROTECTED FROM DUST AND DIRT ACCUMULATION BY REMOVING THE DEVICE FROM ITS BASE DURING THE TIMES WHEN THE SYSTEM IS ALLOWED TO BE OUT OF OPERATION.
G. COORDINATE DATA LOCATIONS AND ROUGH–IN WITH THE ARCHITECTURAL DC–1.0 PLAN.

GENERAL ELECTRICAL NOTES:

A. WHERE THE MECHANICAL DESIGN UTILIZES A PLENUM RETURN AIR CEILING AS PART OF THE HVAC DESIGN, ALL EQUIPMENT AND MATERIALS INSTALLED WITHIN THE PLENUM CEILING SPACE MUST MEET THE FLAME SPREAD AND SMOKE DEVELOPED RATINGS OF 25/50 AND BE APPROVED FOR USE IN PLENUM RETURN AIR SYSTEMS. ELECTRICAL EQUIPMENT IN PLENUM CEILING LOCATIONS WITH THE MECHANICAL CONTROL SYSTEM DEVICES THAT ARE MANUFACTURED WITH A METAL HOUSING MEET THIS REQUIREMENT AND ARE NOT REQUIRED TO BE PLENUM RATED, UNLESS INDICATED OTHERWISE.
B. COORDINATE ALL DEVICE LOCATIONS AND CIRCUIT ROUTING WITHIN ANY MILLWORK WITH MILLWORK VENDOR PRIOR TO ROUGH–IN.
C. COORDINATE THE CONNECTIONS OF ALL EQUIPMENT PROVIDED BY OTHERS WITH THE CONTRACTOR PROVIDING THE EQUIPMENT FOR ROUGH–IN. THIS INCLUDES, BUT IS NOT LIMITED TO, MECHANICAL EQUIPMENT, AUDIO/VISUAL EQUIPMENT, FIRE SUPPRESSION SYSTEM EQUIPMENT, FIRE ALARM EQUIPMENT, ETC. THE ELECTRICAL (FEDEX OFFICE AND/OR LANDLORD) CONTRACTOR IS RESPONSIBLE TO PROVIDE APPROPRIATE CONNECTING MEANS FOR, AND TO MAKE THE FINAL CONNECTION TO, ANY HARDWIRED EQUIPMENT. THE ELECTRICAL (FEDEX OFFICE AND/OR LANDLORD) CONTRACTOR IS ALSO RESPONSIBLE TO PROVIDE AN APPROPRIATE CORD AND PLUG FOR ANY CORD–AND–PLUG CONNECTED EQUIPMENT THAT IS NOT EQUIPPED WITH AN INTEGRAL CORD AND PLUG.
D. SEE PANEL SCHEDULES FOR INFORMATION ON CIRCUITS THAT ARE TO BE ROUTED THROUGH CONTACTORS OR RELAYS FOR CONTROL.
E. THE ELECTRICAL (FEDEX OFFICE AND/OR LANDLORD) CONTRACTOR IS RESPONSIBLE FOR PRESERVING THE FIRE RATING OF ANY FIRE–RATED CEILING ASSEMBLIES BY PROVIDING THE APPROPRIATE FIRE–RATED LUMINAIRE TENTS AS MANUFACTURED BY 3M/TMT OR NELSON FIRESTOP OR BY BUILDING FIRE–RATED ENCLOSURES AROUND EACH LUMINAIRE THAT IS RECESSED INTO THE FIRE–RATED ASSEMBLY. COORDINATE FIRE–RATED CEILING ASSEMBLY LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.
F. ALL EQUIPMENT, DEVICES, AND LUMINAIRES SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED. EQUIPMENT MOUNTED OUTDOORS SHALL BE NEMA 3R. DEVICES MOUNTED IN DAMP OR WET LOCATIONS SHALL BE WEATHERPROOF. RECEPTACLES RATED 15– OR 20–AMPS AND 125 VOLTS WHICH ARE LOCATED IN DAMP OR WET LOCATIONS SHALL BE GFCI PROTECTED AND EQUIPPED WITH A SUITABLE WEATHERPROOF COVERPLATE (WHILE–IN–USE IN WET LOCATIONS).
G. ALL LUGS, TERMINALS, ETC. IN ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE LISTED FOR A MINIMUM OF 75 DEGREE C CONDUCTORS. TERMINATIONS LISTED FOR ONLY 60 DEGREE C CONDUCTORS ARE NOT PERMITTED.
H. BRANCH CIRCUITS RATED AT 20 AMPS AT 120 VOLTS THAT ARE LONGER THAN 75 FEET SHALL BE #10 AWG MINIMUM TO OFFSET VOLTAGE DROP.
I. BRANCH CIRCUITS RATED AT 20 AMPS AT 120 VOLTS THAT ARE LONGER THAN 150 FEET SHALL BE #8 AWG MINIMUM TO OFFSET VOLTAGE DROP.
J. BRANCH CIRCUITS RATED AT 20 AMPS AT 277 VOLTS THAT ARE LONGER THAN 150 FEET SHALL BE #10 AWG MINIMUM TO OFFSET VOLTAGE DROP.
K. CONDUCTORS #12 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #10 AWG AND LARGER ARE PERMITTED TO BE STRANDED.

KEYED NOTES:

1. PROVIDE FINAL CONNECTION TO SIGNAGE. COORDINATE LOCATION AND ALL REQUIREMENTS WITH SIGN CONTRACTOR PRIOR TO ROUGH–IN. PROVIDE AN APPROPRIATE LOCAL DISCONNECTING MEANS MOUNTED IN AN ACCESSIBLE, INCONSPICUOUS LOCATION THAT IS WITHIN SIGHT OF THE SIGN. EACH SIGN CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND SEPARATE EQUIPMENT GROUNDING CONDUCTOR.
2. PROVIDE OUTLET FOR LED MONITOR. COORDINATE ALL REQUIREMENTS AND EXACT LOCATION WITH FEDEX OFFICE'S PROJECT MANAGER PRIOR TO ROUGH–IN.
3. PROVIDE NEW REMAN AT–250 DOOR ALERT SYSTEM AT FRONT DOOR AND REAR DOORS. PROVIDE CHIME ACCESSORY FOR FRONT DOOR AND BUZZER ACCESSORY FOR REAR DOOR. FIELD VERIFY EXACT LOCATION OF CHIME AND BUZZER. LOCATE CHIME/BUZZER ABOVE CEILING. POWER TRANSFORMERS VIA RECEPTACLE CIRCUIT LOCATED AT CEILING NEAR FRONT DOOR AND REAR DOORS.
4. COORDINATE EXACT ELECTRICAL REQUIREMENTS AND ANY REQUIRED CONTROLS FOR "OPEN" SIGN, WINDOW BEACON SIGN, AND LED PANEL WITH FEDEX OFFICE'S PROJECT MANAGER PRIOR TO ROUGH–IN AND ADJUST ELECTRICAL CIRCUITING AS REQUIRED.
5. PROVIDE FLOOR MOUNTED HUBBELL WIRING SYSTEMS HBL4750 SERIES METAL TWO CHANNEL RACEWAY. UTILIZE ONE CHANNEL FOR POWER AND THE OTHER FOR TELECOMMUNICATIONS. CONTACT SCOTT MOSEMAN WITH GRAYBAR AT (612)–810–0916 FOR ALL REQUIRED ACCESSORIES.
6. RELOCATED POWER POLE.
7. VERIFY EXACT ELECTRICAL REQUIREMENTS OF NEW PLAY NETWORK SERVICE WITH FEDEX OFFICE'S PROJECT MANAGER PRIOR TO ROUGH–IN AND ADJUST ELECTRICAL CIRCUITING AS REQUIRED.
8. JUNCTION BOX FOR POWER FEED TO RACEWAY.
9. PROVIDE BUCK–BOOST TRANSFORMER MOUNTED IN ACCESSIBLE CEILING SPACE. TRANSFORMER SHALL BE 208V 1–PHASE IN, 230V 1–PHASE OUT. ELECTRICAL CONTRACTOR SHALL WORK WITH THEIR DISTRIBUTOR TO DETERMINE THE EXACT BUCK–BOOST TRANSFORMER REQUIRED BASED ON THE LOAD CHARACTERISTICS OF THE EQUIPMENT BEING SERVED.
10. PROVIDE A NEW TELEPHONE BOARD AND COORDINATE EXACT REQUIREMENTS WITH PROJECT MANAGER. PROVIDE GROUND BAR MOUNTED ON BACK BOARD WITH EQUIPMENT GROUNDING ELECTRODE SYSTEM.
11. FEDEX'S CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS WITH BUILDING ENGINEER TO PROVIDE ONE 2" TELEPHONE SERVICE CONDUIT INTO SPACE PER TENANT SPECIFICATIONS. LOCATION TO BE SELECTED BY TENANT. ROUTING AND TERMINATION LOCATIONS SHALL BE APPROVED BY LOCAL SERVICE PROVIDER TO ALLOW INSTALLATION OF A 50 PAIR SERVICE DEDICATED TO THE FEDEX OFFICE'S SPACE. CONTRACTOR SHALL CONFIRM WITH LANDLORD APPROXIMATE DISTANCE FROM MAIN POINT OF CONNECTION TO TENANT'S TERMINATION POINT TELEPHONE WITHIN SPACE FOR INSTALLATION OF CABLING, PRIOR TO BIDDING THE PROJECT.
12. RESUSE EXISTING SWITCH TO SERVE AS DISCONNECTING MEANS FOR DRILL. VERIFY SWITCH IS MOUNTED AT APPROPRIATE HEIGHT TO LEG OF DRILL. VERIFY MOUNTING HEIGHT OF SWITCH WITH OWNER'S PROJECT MANAGER. ROUTE CONDUIT AS CONCEALED AS POSSIBLE TO NEW SWITCH LOCATION IF SWITCH IS TO BE RELOCATED.
13. ROUTE CONDUIT ON FLOOR TO THE FRONT LEG OF THE DRILL. THEN ROUTE UP LEG OF DRILL TO A DESIRABLE HEIGHT TO MOUNT THE MOTOR SAFETY SWITCH IF SWITCH IS TO BE RELOCATED.
14. PROVIDE POWER FOR NEW SERVER CABINET AND T–MOBILE SYSTEM. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH–IN.
15. DISCONNECT SWITCH AND SERVICE RECEPTACLE ARE EXISTING TO REMAIN. MAINTAIN CIRCUIT CONTINUITY TO EXISTING PANEL.
16. PROVIDE HUBBELL WIRING SYSTEMS HBLAP SERIES ALUMINUM TELE–POWER POLE. UTILIZE ONE CHANNEL FOR POWER AND THE OTHER FOR TELECOMMUNICATIONS. CONTACT SCOTT MOSEMAN WITH GRAYBAR AT (612)–810–0916 FOR ALL REQUIRED ACCESSORIES.

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