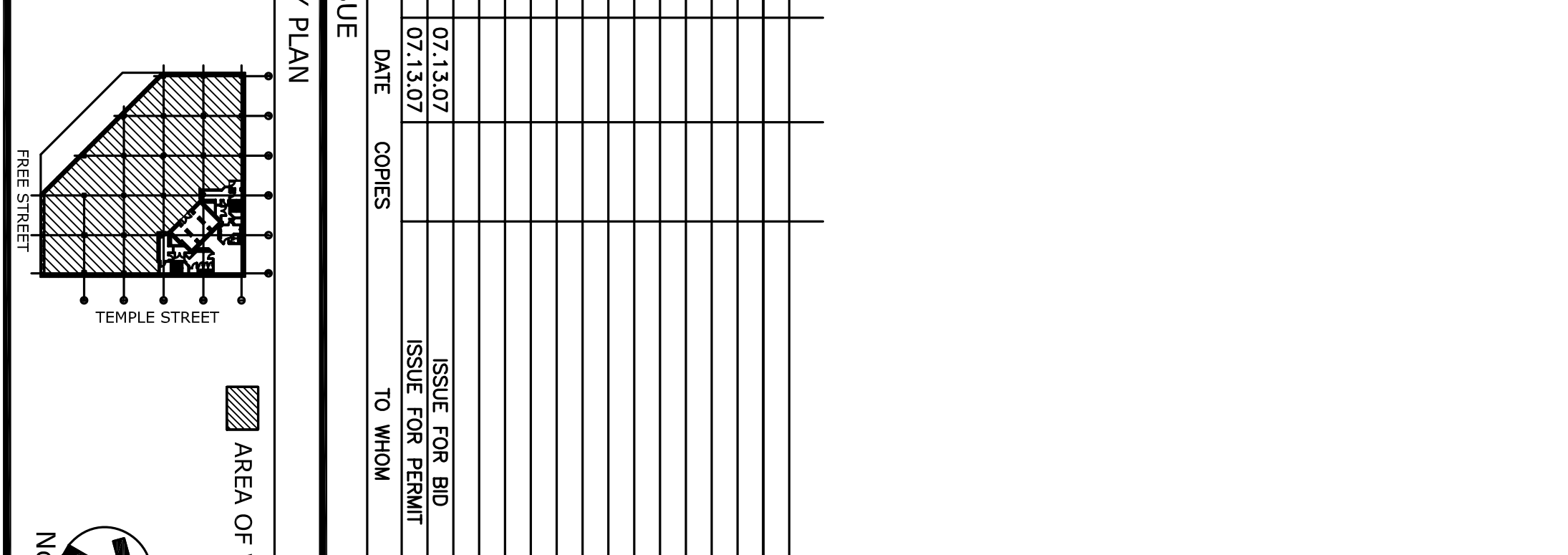


REVISIONS

NO.	DATE	DESCRIPTION

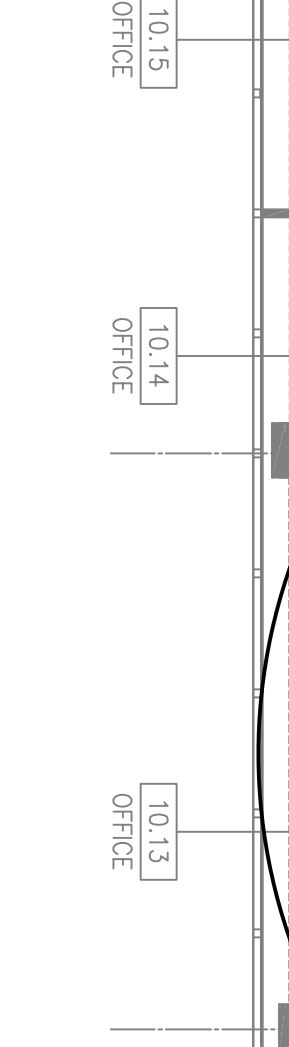


POWER PLAN LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
▲	120V, 20A WALL MOUNTED DUPLEX RECEPTACLE, NEMA 5-20R, RED COLOR, WALL MOUNTED	○	WALL MOUNTED DATA OUTLET, PROVIDE SINGLE GANG BOX WITH 3/4" EMT CONDUIT STUB-UP 6" ABOVE CEILING AND PULL STRING, CABLE AND VENDOR SPECIFIED AND INSTALLED BY COMMUNICATIONS CONTRACTOR
○	120V, 20A DUPLEX RECEPTACLE, NEMA 5-20R, RED COLOR, PROVIDE NEAR 5-20R AND, RECEPTACLE FOR COMMENCEMENT OF WORK	○	WALL MOUNTED DATA OUTLET, PROVIDE SINGLE GANG BOX WITH 3/4" EMT CONDUIT STUB-UP 6" ABOVE CEILING AND PULL STRING, CABLE AND VENDOR SPECIFIED AND INSTALLED BY COMMUNICATIONS CONTRACTOR
○	120V, 20A DUPLEX RECEPTACLE, NEMA 5-20R, RED COLOR, PROVIDE NEAR 5-20R AND, RECEPTACLE FOR COMMENCEMENT OF WORK	○	WALL MOUNTED DATA OUTLET, PROVIDE SINGLE GANG BOX WITH 3/4" EMT CONDUIT STUB-UP 6" ABOVE CEILING AND PULL STRING, CABLE AND VENDOR SPECIFIED AND INSTALLED BY COMMUNICATIONS CONTRACTOR
○	120V, 20A DUPLEX RECEPTACLE, NEMA 5-20R, RED COLOR, PROVIDE NEAR 5-20R AND, RECEPTACLE FOR COMMENCEMENT OF WORK	○	WALL MOUNTED DATA OUTLET, PROVIDE SINGLE GANG BOX WITH 3/4" EMT CONDUIT STUB-UP 6" ABOVE CEILING AND PULL STRING, CABLE AND VENDOR SPECIFIED AND INSTALLED BY COMMUNICATIONS CONTRACTOR

EQUIPMENT ROOM LEGEND

○	20A, 120V TWISTLOCK, NEMA L5-20R, WALL MOUNTED	○	WALL MOUNTED SWITCH TO CONTROL WIRELESS SHARPS, HOUSING, THE NUMBER OF ARROWS INDICATE THE NUMBER OF CONTACTS TO PANEL
○	20A, 120V TWISTLOCK, NEMA L5-20R, WALL MOUNTED	○	NEW CONDUIT / WIRELESS UNDER THE FLOOR SLAB, NEW ELECTRICAL PANEL
○	20A, 120V TWISTLOCK, NEMA L5-20R, WALL MOUNTED	○	EXISTING ELECTRICAL PANEL
○	20A, 120V TWISTLOCK, NEMA L5-20R, WALL MOUNTED	○	EXISTING ELECTRICAL PANEL



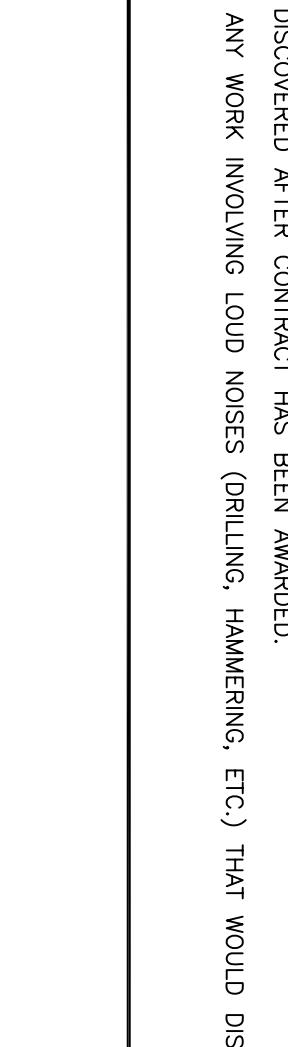
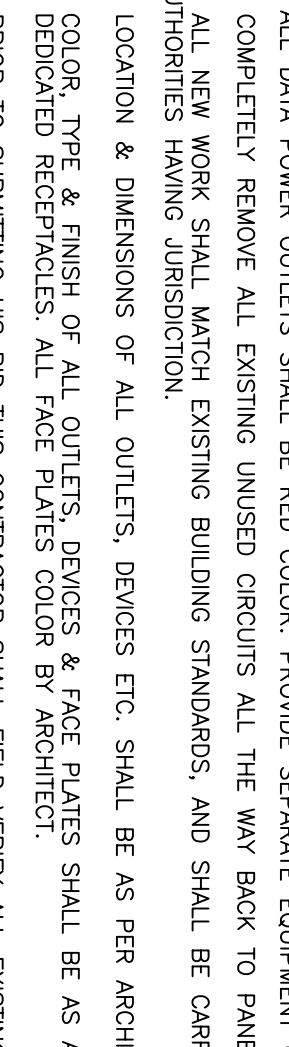
- ### IDE ROOM NOTES
- 1) ALL OUTLETS TO BRANCH CIRCUITS IN PANEL, USE-AI, U.O.N.
 - 2) PROVIDE NEAR 5-20R, RED COLOR, WALL MOUNTED DUPLEX RECEPTACLE, NEMA 5-20R FOR COMMENCEMENT OF WORK
 - 3) PROVIDE 4" x 1/4" COPPER GROUND BAR, 20' LONG WITH #6 - 1/2" C.O. WIRE FROM NEAREST BUILDING CONNECT ALL METAL PARTS INSIDE THE ROOM TO THE GROUND BAR WITH #8 C.O. WIRE INCLUDING, BUT NOT LIMITED TO EQUIPMENT CABINETS AND RACKS, LOWER BACK, AND HVAC DUCT.
 - 4) EXACT QUANTITY AND TYPE OF EQUIPMENT TO BE DETERMINED BY THE ARCHITECT'S COMMUNICATIONS CONTRACTOR.
 - 5) ELECTRICAL CONTRACTOR TO PROVIDE END BINDINGS AND PULL STRINGS FOR ALL EMT CONDUITS.
 - 6) INVERTED THE SPARKLE HEADS SHALL BE USED
 - 7) ELECTRICAL PANELBOARDS SHALL BE MOUNTED AT LEAST 12" (24" PREFERRED) FROM ANY DATA RACK OR CABINET.
 - 8) ELECTRICAL CONTRACTOR SHALL PROVIDE NEAR 5-20R, RED COLOR, WALL MOUNTED DUPLEX RECEPTACLE, NEMA 5-20R FOR COMMENCEMENT OF WORK
 - 9) PROVIDE NEAR 5-20R, RED COLOR, WALL MOUNTED DUPLEX RECEPTACLE, NEMA 5-20R FOR COMMENCEMENT OF WORK
 - 10) COMMUNICATIONS CONTRACTOR SHALL PROVIDE NEAR 5-20R, RED COLOR, WALL MOUNTED DUPLEX RECEPTACLE, NEMA 5-20R FOR COMMENCEMENT OF WORK

PIPELINE CHART TO COMBINE DATA SHIELDED ETP CABLE IN HORIZONTAL CONDUITS WITH NO MORE THAN TWO BY BUNDLES

CONDUIT SIZE (INCHES)	NO. OF CAT 5 CABLES @ 40% FILL
1"	(1) 4-PACKS (4 CABLES)
1-1/4"	(2) 4-PACKS (8 CABLES)
1-1/2"	(3) 4-PACKS (12 CABLES)
2"	(4) 4-PACKS (16 CABLES)
3"	(10) 4-PACKS (40 CABLES)
4"	(18) 4-PACKS (72 CABLES)

- ### NOTES
1. COORDINATE QUANTITY OF CAT 5 CABLES REQUIRED AT EACH LOCATION WITH CABLE VENDOR.
 2. WHEN USING FLEXIBLE VERTICAL CONDUIT (FVCO), INCREASE LOCATIONS WHERE BUT CANNOT BE USED DUE TO SPACE CONSTRAINTS. PERMISSION FOR USE IS REQUIRED.

- ### POWER PLAN NOTES
1. ALL COMMENCEMENT POWER AND COMPUTER BRANCH CIRCUITS SHALL BE CONNECTED TO EXISTING 120/208V, PANEL P10A-1, P10B-1.
 2. ALL DATA POWER OUTLETS SHALL BE RED COLOR. PROVIDE SEPARATE EQUIPMENT GROUND WIRE, MINIMUM #12 WITH EACH CIRCUIT.
 3. COMPLETELY REMOVE ALL EXISTING UNUSED CIRCUITS ALL THE WAY BACK TO PANELS.
 4. ALL NEW WORK SHALL MATCH EXISTING BUILDING STANDARDS AND SHALL BE CARRIED OUT IN STRICT COMPLIANCE OF N.E.C., B.O.C.A., RULES AND REGULATIONS OF BUILDING AND FIRE DEPARTMENT.
 5. LOCATION & DIMENSIONS OF ALL OUTLETS, DEVICES ETC. SHALL BE AS PER ARCHITECT'S DRAWINGS.
 6. COLOR, TYPE & FINISH OF ALL OUTLETS, DEVICES & FACE PLATES SHALL BE AS APPROVED BY THE ARCHITECT. EXCEPT RED COLOR FOR COMPUTER RECEPTACLES AND GRAY COLOR FOR COMMUNICATIONS RECEPTACLES.
 7. PRIOR TO STARTING WORK THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND APPROVE THE ARCHITECT'S REPORT. THESE CONDITIONS SHALL BE DISCOVERED AFTER CONTRACT IS AWARDED.
 8. ANY WORK INVOLVING LOAD NOISES (GRINDING, HAMMERS, ETC.) THAT WOULD DISTURB THE BUILDING'S TENANTS, SHALL BE CONDUCTED AFTER-HOURS, WITH OUT EXTRA CHARGE TO USBS.



- ### NOTES
1. CONNECT N/C CONTACT OF BREAKERLESS SWITCH TO SHUNT TRIP OF A/C UNIT.
 2. REMOVE EXISTING JUMPER ACROSS REMOTE SHUNT TRIP OF BREAKERLESS SWITCH.
 3. ALL WIRING #18 COPPER THINWALL IN E.M.T. 1/2"C.
 4. MIN. WIRE STRAPPING PROTECTIVE COVER IF WIRING IS NOT PROTECTED BY E.M.T.
 5. PROVIDE CONTIGS FROM FACP SO THAT E.M.T. WILL BE ACTIVE AND THE A/C UNIT WILL DEVIATE PROGRAM FACP SO THAT THE HEAT DETECTOR IN DATA CENTER IS UNDEAD. THE EXTRA SET OF HEAT DETECTOR IN DATA CENTER ON DATA CENTER ON.
 6. PROVIDE CONTIGS FROM FACP SO THAT E.M.T. WILL BE ACTIVE AND THE A/C UNIT WILL DEVIATE PROGRAM FACP SO THAT THE HEAT DETECTOR IN DATA CENTER IS UNDEAD. THE EXTRA SET OF HEAT DETECTOR IN DATA CENTER ON DATA CENTER ON.
 7. PROVIDE CONTIGS FROM FACP SO THAT E.M.T. WILL BE ACTIVE AND THE A/C UNIT WILL DEVIATE PROGRAM FACP SO THAT THE HEAT DETECTOR IN DATA CENTER IS UNDEAD. THE EXTRA SET OF HEAT DETECTOR IN DATA CENTER ON DATA CENTER ON.
 8. PROVIDE CONTIGS FROM FACP SO THAT E.M.T. WILL BE ACTIVE AND THE A/C UNIT WILL DEVIATE PROGRAM FACP SO THAT THE HEAT DETECTOR IN DATA CENTER IS UNDEAD. THE EXTRA SET OF HEAT DETECTOR IN DATA CENTER ON DATA CENTER ON.



- ### NOTES
1. PROVIDE AND INSTALL ONE PHONICS INC. (PHONE # 610-558-2700), TENSORPHONE 400" AUTO-DIALER.
 2. ELECTRICAL CONTRACTOR SHALL PROVIDE #400 SERIES DESKTOP MOUNTING SYSTEM WITH BUILT-IN TEMPERATURE SENSOR AND BATTERY BACK-UP. THE BATTERY SHALL BE MAINTAINED BY THE CONTRACTOR. THE BATTERY SHALL BE MAINTAINED BY THE CONTRACTOR. THE BATTERY SHALL BE MAINTAINED BY THE CONTRACTOR.
 3. ELECTRICAL CONTRACTOR SHALL PROVIDE WALL MOUNTED DEDICATED TELEPHONE OUTLET FOR AUTO DIALER AND 20A DUPLEX RECEPTACLE POWERED FROM NEAREST 120V GENERAL RECEPTACLE CIRCUIT.
 4. ELECTRICAL CONTRACTOR SHALL MAKE ALL CONNECTIONS, SET MAXIMUM CURRENT LIMIT OF 5A, PROVIDE THE SYSTEM AS FOLLOWS: DIAL-OUT # 2 TO BRANCH MANAGER, DIAL-OUT # 3 TO OPERATIONS MANAGER, DIAL-OUT # 4 TO OPERATIONS MANAGER.
 5. ALL WIRING IN E.M.T. CONDUIT, MINIMUM 1/2"C. TYPE OF WIRE AS PER MANUFACTURER'S REQUIREMENTS.

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PORTLAND, ME 04101

PROJECT NUMBER: 10th FL. POWER ROOM PLAN
SCALE: 1/8" = 1'-0"
DATE: 07/13/07
PROJECT MANAGER: [Name]
PROJECT ARCHITECT: [Name]
DRAWN BY: [Name]
CHECKED BY: [Name]
CADD FILE