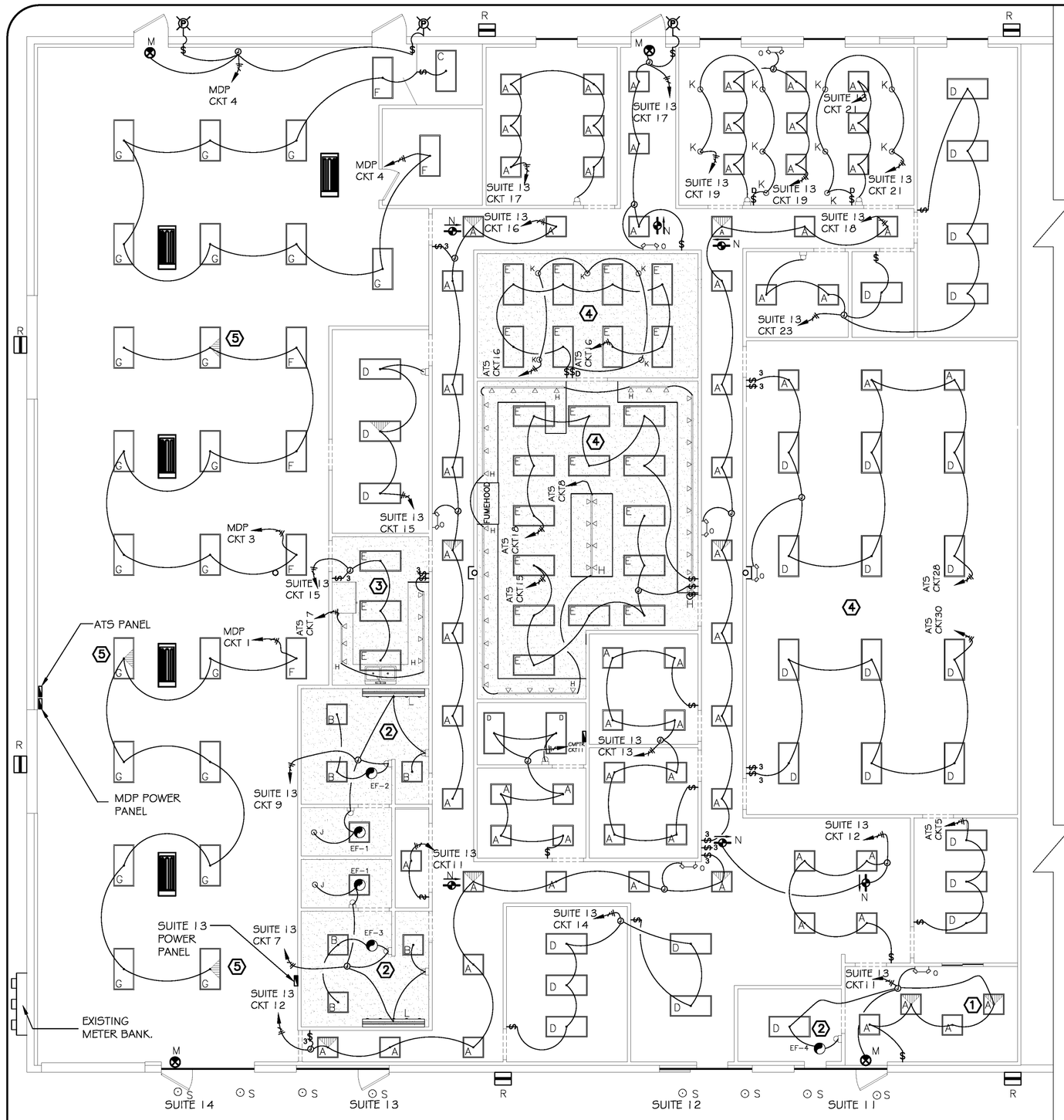
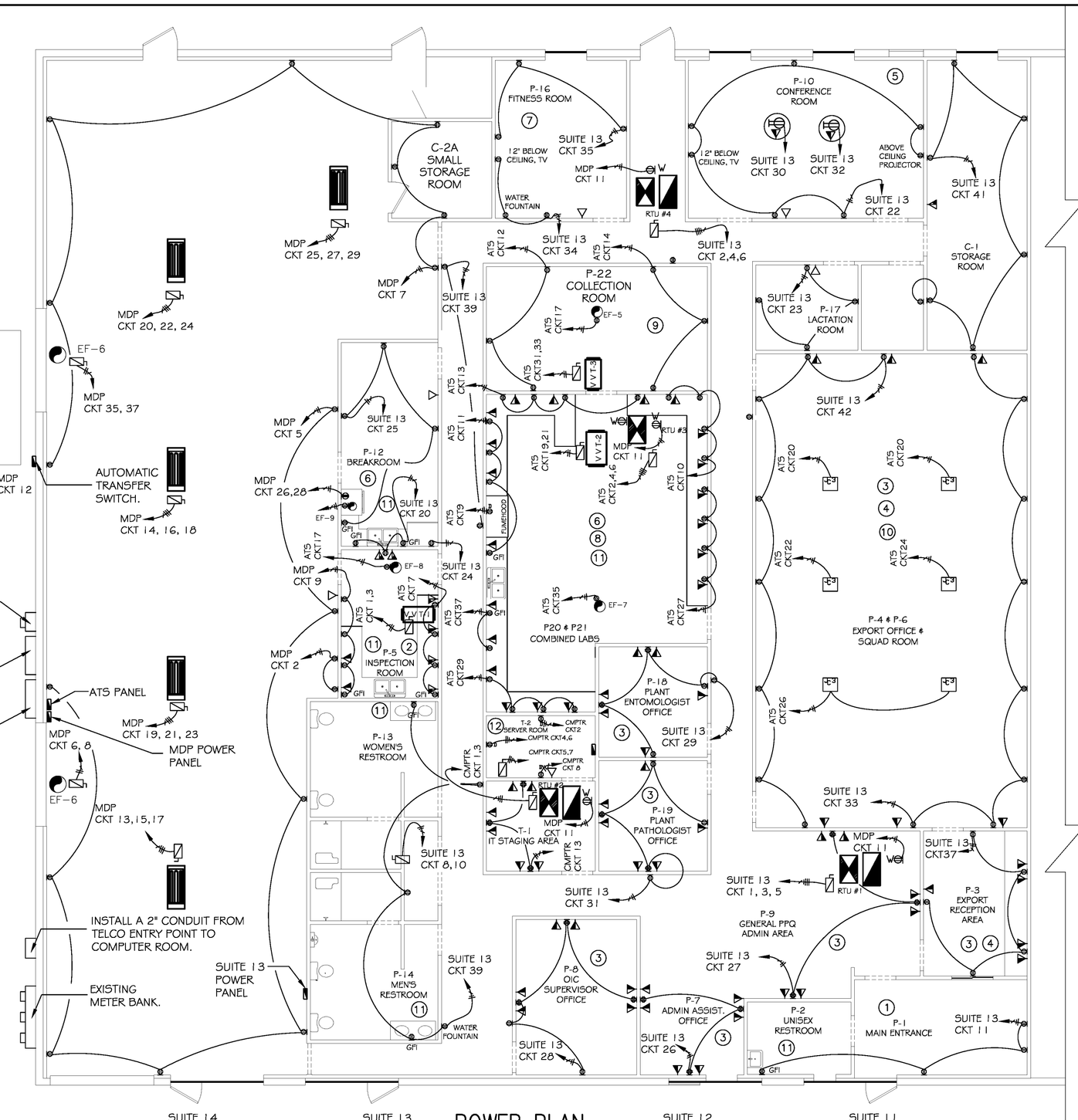


LIGHTING PLAN

SCALE: 1/8" = 1'-0"



POWER PLAN

SCALE: 1/8" = 1'-0"

LIGHT FIXTURE SCHEDULE

MARK	DESCRIPTION	LAMP	MODEL NO.	MANUF.
A	2X2 PARABOLIC LAY-IN FLUORESCENT WITH ELECTRONIC BALLAST	(2) 6'U-T8 FB32T8 3000K	VR2G9L52GU12050	LIGHTOLIER
B	2X2 PARABOLIC RECESSED FLUORESCENT WITH ELECTRONIC BALLAST	(2) 6'U-T8 FB32T8 3000K	VR2*9L52GU12050 *=W/DRY WALL KIT	LIGHTOLIER
C	0.33' X 4' KW INDUSTRIAL SL SOLID TOP FLUORESCENT	(2) 59W T8 SLIMLINE	KW4S259SL120H W/ CHAIN HANGING KIT	LIGHTOLIER
D	2X4 PARABOLIC LAY-IN FLUORESCENT WITH ELECTRONIC BALLAST	(3) FB32T8 3000K	VR2G18L53321200 3	LIGHTOLIER
E	2X4 PARABOLIC RECESSED FLUORESCENT WITH ELECTRONIC BALLAST	(3) FB32T8 3000K	VR2*18L53321200 3 *=W/DRY WALL KIT	LIGHTOLIER
F	2X4 LINEAR FLUORESCENT HIGH BAY SPECULAR REFLECTOR W/ MOTION SENSOR	(4) FB32T8 3500K	E-LN4T8DNNO	E-CONOLIGHT
G	2X4 LINEAR FLUORESCENT HIGH BAY SPECULAR REFLECTOR W/ MOTION SENSOR	(6) FB32T8 3500K	E-LN4T8DKNO	E-CONOLIGHT
H	LYTESPAN ALCYON LED MEDIUM CYLINDER TRACK LIGHTING W/ TRACK	LLA11R5 QUANTITY VARIES	LLA1130AL	LIGHTOLIER
J	CEILING RECESSED COMPACT FLOURESCENT DOWNLIGHT	CFL24W MINITWIST 100W EQUAL	LP6F-1/42TRT 6L4	LITHONIA
K	CEILING RECESSED COMPACT FLOURESCENT DOWNLIGHT	CFL40W DIMMABLE 150W EQUAL	LP6F-1/42TRT 6L4	LITHONIA
L	VANITY LIGHT WALL MTD. INCANDESCENT BULBS	CFL24W MINITWIST 100W EQUAL	5079 4 LAMP UP LIGHT	KICHLER
M	WALL MTD. EMERGENCY EXIT W/90 MIN BATTERY BACKUP	N/A	LLWIR	LIGHTOLIER
N	CEILING SURFACE MTD. (LED) EXIT SIGN W/ BATTERY BACKUP	N/A	LLNURW	LIGHTOLIER
O	WALL MTD. HALOGEN EMERGENCY LIGHT W/90 MIN BATTERY BACKUP	2-H12 12W	E2250NH12W	LIGHTOLIER
P	WALL MTD. EXTERIOR LIGHT W/90 MIN BATTERY BACKUP	60W	--	--
R	EXISTING WALL MTD. EXTERIOR LIGHT	250W	--	--
S	EXISTING AWNING MTD. EXTERIOR DOWNLIGHT	75W	--	--
EF-1	VENT FAN (70 CFM) WITH LIGHT	CFL13W MINITWIST 60W EQUAL	657 BY MECHANICAL	BROAN
EF-2	VENT FAN (200 CFM) 2.0 SONES	N/A	QT200 BY MECHANICAL	BROAN
EF-3	VENT FAN (250 CFM) 2.2 SONES	N/A	L250 BY MECHANICAL	BROAN
EF-4	VENT FAN (80 CFM) 0.8 SONES	N/A	QT080 BY MECHANICAL	BROAN
EF-5	VENT FAN (250 CFM) 2.2 SONES	N/A	L250 BY MECHANICAL	BROAN
EF-6	EXHAUST FAN (6000 CFM)	N/A	ACME FN24J4	ACME

LEGEND

- - POWER PANEL
- - EMERGENCY EXIT SIGN
- - EMERGENCY EXIT SIGN WITH ARROW POINTING DIRECTION OF TRAVEL.
- - SWITCH
- - 3-WAY SWITCH
- - SWITCH WITH DIMMER
- - MOTION SENSOR W/ADJUSTABLE DELAY
- - QUAD RECEPTACLE.
- - DUPLEX OUTLET.
- - DEDICATED DUPLEX OUTLET.
- - WEATHERPROOF OUTLET AT RTU'S.
- - RESIDENTIAL STOVE OUTLET, 240V 50AMP
- - DISCONNECT SWITCH.
- - LIGHT FIXTURE WILL HAVE ONE LAMP HARDWIRED TO OPERATE 24/7; FIXTURE WILL REQUIRE A SEPARATE BALLAST.
- - LIGHT FIXTURE WILL HAVE ONE LAMP HARDWIRED TO OPERATE 24/7; FIXTURE WILL REQUIRE A SEPARATE BALLAST.
- - CUBICLE JUNCTION BOX IN CEILING FOR POWER AND NETWORK. PROVIDE (2) DATA CONNECTIONS, (2) 120 VAC OUTLETS, FOR EACH WORKSTATION LOCATION.
- - VOICE ONLY, INSTALL ½" CONDUIT FROM JACK TO ABOVE CEILING.
- - VOICE / DATA, INSTALL ½" CONDUIT FROM JACK TO ABOVE CEILING.
- - IN-FLOOR POWER AND DATA MONUMENT. CUT CHANNEL IN CONCRETE FLOOR TO INSTALL MONUMENTS.
- - EXHAUST FAN
- - WAREHOUSE HEATER: 240V - 6.0 KW; TPI CORPORATION CH-624-3A HEAVY DUTY METAL SHEATH ELECTRIC INFRARED HEATER; MOUNT AT 12' AFF.
- - V V T (VARIABLE VOLUME & TEMPERATURE) TERMINAL; V V T #1, V V T #2 AND V V T #3 SHALL HAVE HEATING ELEMENTS.
- PHASE (HOT)
- NEUTRAL (GROUND)
- EQUIPMENT GROUNDING

ELECTRICAL SHEET NOTES:

1. LOBBY SHALL HAVE 24 HR LIGHTING; CONNECT ONE LAMP TO A GENERATOR CIRCUIT (ATS #39).
2. LIGHTING AND EXHAUST FAN SHALL OPERATE ON A OCCUPANCY SENSOR.
3. TASK LIGHTING SHALL BE ON GENERATOR POWER.
4. ALL LIGHTING SHALL BE ON GENERATOR POWER.
5. WAREHOUSE NIGHT LIGHTS SHALL BE CONNECTED TO GENERATOR CIRCUIT (ATS #39).

O ELECTRICAL SHEET NOTES:

1. INSTALL A DOORBELL SYSTEM TO NOTIFY PERSONNEL IN EXPORT OFFICE OF VISITORS/DELIVERY.
2. WALL OUTLETS THIS COUNTER SHALL BE CONNECTED TO GENERATOR POWER. MOUNT DATA AND OUTLETS 6" ABOVE COUNTER HEIGHT.
3. PROVIDE (2) DATA CONNECTIONS, (2) 120 VAC OUTLETS, FOR EACH WORKSTATION LOCATION. PROVIDE (4) DATA CONNECTIONS AND (4) 120 VAC OUTLETS FOR TWO PRINTERS AND ONE FAX MACHINE AT THE CUSTOMERS OPTION.
4. LIGHTING AND WORKSTATION OUTLETS SHALL BE CONNECTED TO GENERATOR POWER. WORKSTATION OUTLETS FOR COMPUTERS SHALL ONLY HAVE COMPUTERS CONNECTED. PROVIDE SEPARATE CIRCUIT FOR CONVIENCE OUTLETS IN CUBICLES.
5. PROVIDE TWO FLUSH-MOUNTED (4) OUTLET UNITS WITH COVERS WITH (5) DATA PORTS PER UNIT. PROVIDE CONNECTIVITY FROM ONE UNIT TO CEILING MOUNTED PROJECTOR; VERIFY LOCATIONS WITH OWNER. PROVIDE POWER CONNECTIONS FOR TV.
6. PROVIDE GARBAGE DISPOSAL POWER CONNECTION.
7. PROVIDE ELECTRICAL CONNECTIONS FOR ELECTRICALLY POWERED EXERCISE UNITS. PROVEDE POWER FOR TV, CONTACT OWNER FOR LOCATION.
8. ONE DUPLEX 20Amp RECEPTACLE EVERY 3 FT 6" ABOVE COUNTER HEIGHT WITH NO MORE THAN 4 DUPLEX RECEPTACLES PER INDIVIDUAL 20Amp CIRCUIT. (8) DATA DROPS AT WORKSTATIONS. FUME HOOD TO HAVE DEDICATED 20Amp CIRCUIT, VERIFY WITH EQUIPMENT BEING INSTALLED IF MOTOR IS REMOTE. INSTALL POWER FOR USDA PROVIDED EQUIPMENT.
9. ALL OUTLETS AND LIGHTS SHALL BE CONNECTED TO GENERATOR POWER.
10. CRAIG RICHERT'S CUBICLE SHALL HAVE ELECTRICAL STRIP OUTLETS TO ACCOMMODATE UP TO 20 BOX PLUGS (NOT A STANDARD PLUG, CHECK WITH OWNER FOR STYLE). VERIFY IF GENERATOR OR REGULAR POWER.
11. ALL RECEPTACLES SHALL BE INSTALLED 6" ABOVE COUNTERTOP, EXCEPT WHERE POWER IS FOR GARBAGE DISPOSAL.
12. ALL COMPUTER ROOM OUTLETS MUST BE DEDICATED & HAVE AN ISOLATED GROUND FOR EACH CIRCUIT. PROVIDE A DEDICATED UTILITY ANALOG PHONE LINE FROM THE TELEPHONE COMPANY IN THE COMPUTER ROOM FOR THE SECURITY ALARM SYSTEM.

ELECTRICAL NOTES:

1. EQUIPMENT LAYOUT, ELECTRICAL AND MECHANICAL DETAILS ARE BASED ON THE INFORMATION PROVIDED BY THE OWNER. CONTRACTOR TO COORDINATE ANY CORRESPONDING CHANGES TO EQUIPMENT SELECTION, LAYOUT, MECHANICAL, AND ELECTRICAL REQUIREMENTS WITH THE OWNER.
2. CONTRACTOR TO COORDINATE EQUIPMENT REQUIREMENTS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DISCIPLINES.
3. SEE ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION AND DETAILS ON EQUIPMENT INSTALLATION.
4. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE GOVERNING ELECTRICAL CODE AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OR APPROVAL WHERE REQUIRED.
5. ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.
6. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND LOCATION OF ALL LIGHTING FIXTURES, RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD.
7. PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
8. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
9. ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.
10. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE.
11. ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
12. ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC. AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT. AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS. MC MAY BE USED FOR LIGHTING WHIPS.
13. PERFORM TEST REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING.
14. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.
15. MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION. MINIMUM SIZE CONDUIT SHALL BE ¾" EMT FOR INTERIOR USE, AND ¾" RIGID ALUMINUM FOR EXTERIOR USE. USE TYPE MC CABLE COPPER, FOR LIGHTS AND RECEPTACLE CIRCUITS. EXTERIOR FITTINGS SHALL BE CAST BOXES AND COVERS. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS.
16. CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
17. INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5' OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WATERPROOF.
18. BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:230-63, NFPR 250-23, 250-71 & 250-72.
19. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23b.
20. FUSES SHALL BE ITT CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
21. PROVIDE SERVICES OF A FIRE/SMOKE DETECTION AND ALARM COMPANY TO DESIGN AND INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHALL, IF REQUIRED.
22. EXTERIOR LIGHTING SHALL BE SHADED OR INWARDLY DIRECTED IN SUCH A MANNER SO THAT NO DIRECT LIGHTING OR GLARE IS CAST BEYOND THE PROPERTY LINE. THE INTENSITY OF SUCH LIGHTING SHALL NOT EXCEED ONE FOOT CANDLE AS MEASURED AT THE ABUTTING PROPERTY LINE.
23. ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.) SEE ARCHITECTURAL DRAWINGS FOR RATED CONSTRUCTION.

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ELECTRICAL PLAN

REV:#3- 4/27/2012

SCALE: AS NOTED

JOB#:

DATE: 1/15/2012

SHEET

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