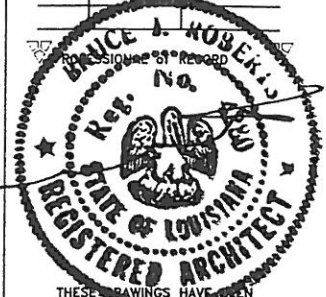


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CONSTRUCTION
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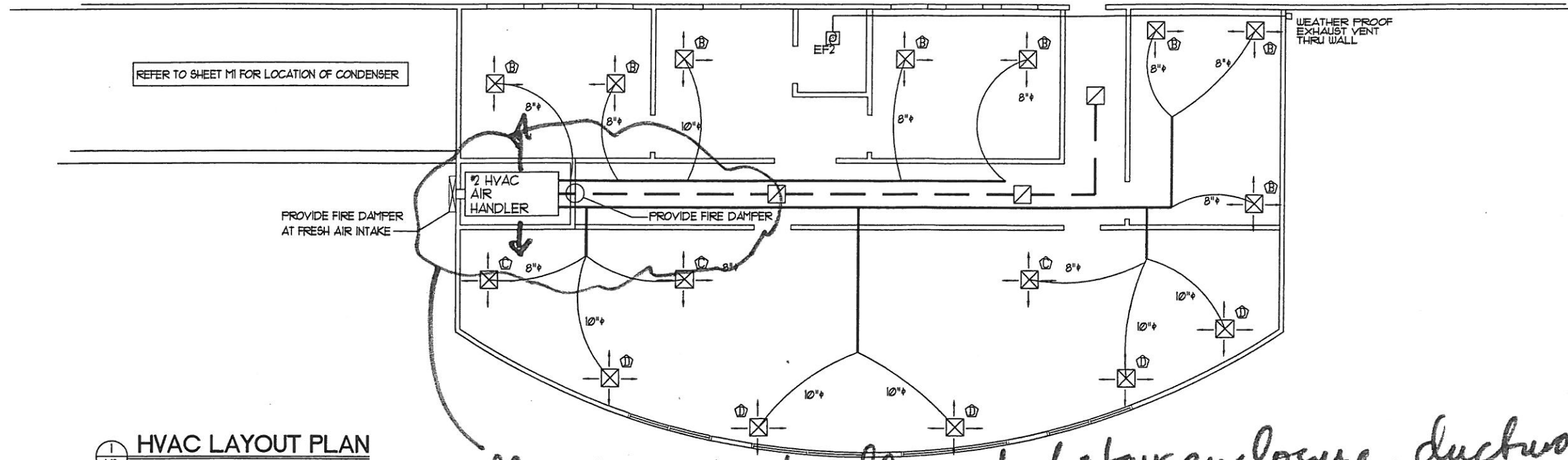
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HVAC LAYOUT PLAN
SCALE: 3/32" = 1'-0"

Move HVAC Air handler out of stair enclosure, ductwork and air handler cannot penetrate or be inside stair enclosure rated exit
FOR DUCTWORK NOTES, FAN DATA AND DIFFUSER SCHEDULE REFER TO SHEET M1

- GENERAL NOTES:**
1. PROVIDE SMOKE DETECTORS IN RETURN AIR SYSTEMS WITH A CAPACITY GREATER THAN 2000 cfm IN THE RETURN AIR DUCT.
 2. THE AMOUNT OF SUPPLY AIR SHALL BE APPROXIMATELY EQUAL TO THE AMOUNT OF RETURN AND EXHAUST AIR. THE SYSTEM SHALL NOT BE PROHIBITED FROM PRODUCING NEGATIVE OR POSITIVE PRESSURE.
 3. THE SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE TO LOCAL CODE.
 4. MECHANICAL VENTILATION SYSTEMS SHALL BE PROVIDED WITH MANUAL OR AUTOMATIC CONTROLS THAT WILL OPERATE SUCH SYSTEMS WHENEVER THE SPACES ARE OCCUPIED.
 5. AIR-CONDITIONING SYSTEMS THAT SUPPLY VENTILATION AIR SHALL BE PROVIDED WITH CONTROLS DESIGNED TO AUTOMATICALLY MAINTAIN THE REQUIRED OUTDOOR AIR SUPPLY RATE DURING OCCUPANCY.

PROVIDE FIRE DAMPERS AS REQUIRED

LEGEND						
CEILING SUPPLY	WALL SUPPLY	VERTICAL SUPPLY	CEILING RETURN	VERTICAL RETURN	WALL RETURN	CEILING EXHAUST FAN

MECHANICAL & ELECTRICAL NOTES:

1. All materials shall be new except where otherwise noted and shall conform with the standards of Underwriter's Laboratory in every case where such a standard has been established for the particular type of material in question.
2. The installation shall comply with all laws applying to work in effect with the regulations of the NEC. The contractor shall obtain and pay all necessary permits, and after completion, furnish owner certifications of final inspections and approval as issued by the inspection department of the Parish. The contractor shall be responsible for obtaining all necessary certificates of inspection, both at rough-in and completion.
3. All tests shall be made in accordance with latest standards of IPCEA and the NEC. The test shall be made in the presence of the owner or his representative.
4. The contractor is urged to visit and to examine the job site in order to become more familiar with all existing conditions pertinent to work to be performed thereon. No additional compensation will be allowed for failure to be so informed.

MECHANICAL NOTES:

1. HVAC contractor to be responsible for the design, sizing, and functioning of the units and ducts.
2. All HVAC systems shall be constructed in accordance with IM-1-2, life safety code.
3. Install smoke detectors to automatically stop the fan in HVAC duct systems over 2000 cfm in accordance with NFPA 90A: 4-4.2 (1993). As per 90A-5.1. Duct detectors shall be connected to building alarm system.
4. Smoke dampers shall be installed in systems over 5000 cfm to isolate air handling equipment dampers shall automatically close when system is not in operation as per NFPA 90A: 4-4 (1993). Interconnect to buildings smoke detection and alarm systems when required by NFPA 101.
5. All mechanical installations must meet commercial standards including heating, cooling, water heating, ductwork, etc., and that these installations must be typically accessible, as required.
6. HVAC enclosures must have ducted returns, typically.
1. Electric air filtering unit to be placed in A/C return air.

8. All hose bibs to be frost-proof type.
9. Provide manual reset firestat in return air stream of A/C system, setting not to exceed 166 degrees F.
10. All mechanical work shall have a one-year warranty.
11. Central air condition system to be designed and priced with a minimum rating of 10 SEER.
12. Test all piping, test and adjust air distribution and refrigeration systems.
13. Cutting and patching shall be in accordance with general practices.
14. Visit the site to be familiar with all visible conditions. No compensation will be allowed for failure to observe existing conditions.
15. Rough in and connect all owner furnished equipment including valves, fittings, etc.
16. Electrical contractor shall do all power and high voltage wiring. Mechanical contractor shall do low voltage control wiring. General contractor shall provide structural supports, foundations and painting. Roofer shall provide pitch pockets and install roof curbs, jacks, etc.
17. Provide operating and maintenance instructions including wiring diagram and service manual. Furnish approved operating instructions. Mark all devices. Instruct owner in care and operation of all equipment.

18. Piping shall be installed so that it may expand and contract without damaging building. Provide satisfactory hangers, braces and supports. Install dielectric fittings between dissimilar piping materials. Hang all under slab piping using 1/4" diameter stainless steel rods.
Domestic water lines: Copper type (K) underground, type (L) above.
Sewer, drain, sanitary and vent lines: PVC, ABS schedule 40 with glued joints.
Refrigerant piping: Copper type (L), cleaned capped and deoxidized, with adjustable packing glands, Buna - N packing for cold water, silver solder. Bleed nitrogen through lines while soldering. Furnish strainer dryer and sight glass.
Ball Valves: Bronze blowout proof stems extended for insulated pipes adjustable packing glands, Buna - N packing for cold water, Teflon for hot water or steam.
Butterfly Valves: 2 1/2 inch and larger; lug water type, cast iron body, field replaceable EPDM sleeve, nickel plated iron disc and lever handle with indicator.
19. Ductwork shall be galvanized steel. Construction details and gauges shall be according to NFPA Bulletin 90A, and SMACNA Duct manual. Use turning vanes at corners provided splitter dampers with locking quadrants as shown. Provide fire dampers at outside air intakes and where required by code.
20. Pre-insulated flexible air duct meeting Class I of UL Standard 181 may be used for lengths not to exceed 10 feet to connect ceiling diffusers to supply duct. Use split-in collar. Seal vapor barrier completely.
21. Provide 1 inch fiberglass duct, 1 1/2 pounds per cubic foot density with neoprene film on inside surface of rectangular duct applied with adhesive and clips spaced not less than one clip per 100 square foot of duct surface. Apply adhesive to end joints when installing.

317441
REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: GORDON CAMERON, ARCHITECT

Gordon Cameron

22. Outdoor Condensing Units: Remote type, air cooled, with weather protected 18 gauge cabinet upflow, aluminum blade fan permanently lubricated fan motor with built in thermal overload protection, quiet operation hermetic compressors with sound baffles, internal thermostats and crankcase heaters nonferrous condenser coil with accumulator, pre wired controls consisting of magnetic starter, high-low switch, lock rotor, over and under voltage and thermal overload protection lock out relay.
23. Fan Coil Units: Corrosion protected steel casing insulated with 1 inch thick fiberglass duct liner, double inlet centrifugal blower mounted in permanently lubricated bearings, adjustable V-Belt drive motor with thermal overload protection, direct expansion coil with expansion valve and 1 inch through-rod filters.
24. Ceiling Diffusers, Grilles and Registers: Metal Aire, (or approved equal) aluminum.
25. Control systems with cooling-heating year round thermostat and selector switches. Match stages to condenser units and duct heaters scheduled. Install smoke detectors in discharge for 2000 CFM and up fan coil units to stop fan if smoke is detected.
26. Install system of soil, waste and vent lines for a complete plumbing system. Connect to sewer as required.
27. Install cold and/or hot water lines to all fixtures complete with stop valves and shock absorbers.
28. Install clean outs with access plates at the base of all plumbing stacks, change of direction of 45 degrees or more, and every 50 feet.
29. Insulate all hot water lines and horizontal cold water and condensate lines above ceiling with 1/2 inch fiberglass sealed with foil vapor barrier.
30. Insulate refrigerant suction lines with 1/2 inch thick (Armaflex). Glue all joints. Do not tape joints. Paint outdoor insulation with protective paint.
31. Water Heaters: Electric, glass lined tank, UL approved, thermostat, insulation meeting ASHRAE Standard 90-95, Jacket and temperature pressure relief valve.

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HVAC
LAYOUT
2nd FLOOR

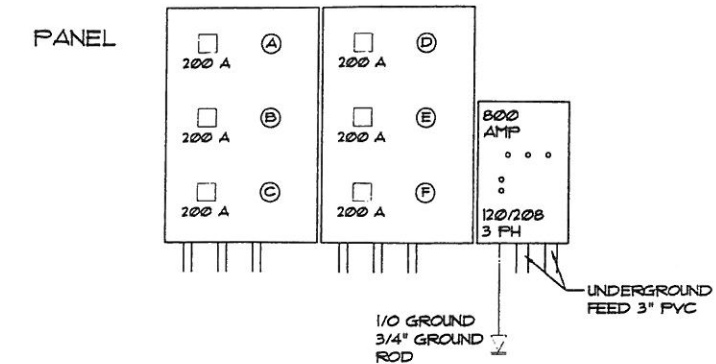
M2

LIGHTING SYMBOLS

MARK:	DESCRIPTION:	MARK:	DESCRIPTION:
	2' x 4' LAY-IN FLUORESCENT LIGHT FIXTURE - (3) 40 WATT FLUORESCENT TUBES.		10CFM EXHAUST VENT FIXTURE - 50 WATT
	24" WALL MOUNTED FLUORESCENT LIGHTING at 1'-0" AFF. LITHONIA 11920-GLR WALL MOUNTED @ 1'-0" AFF.		RECESSED INCANDESCENT DOWNLIGHT - 50 WATT
	EXTERIOR WALL MOUNTED WALL-PAK by LITHONIA TUH 175M 120 SET SITE FLOOD LIGHTS on TIMER SWITCH.		PENDANT INCANDESCENT LIGHT - 50 WATT
	SURFACED MOUNTED 100W INCANDESCENT PORCELAIN LIGHT FIXTURE.		52" 3 SPEED REVERSIBLE CEILING FAN - NO LIGHT KIT
	CHAIN SUSPENDED 12'-0" AFF. 4'-0" FLUORESCENT LIGHTING by LITHONIA C2 48 120 ES		METAL HALIDE SECURITY WALL PACK 175 W 120V

ELECTRICAL RISER DIAGRAM

SERVICE ENTRANCE RISER DIAGRAM
ONE 800 AMP 120/208 VOLT 3 PHASE TO BE FEED UNDERGROUND
BUSBAR FROM TAP BOX TO METER SOCKETS

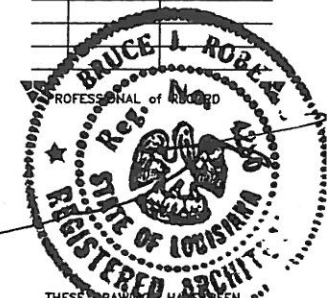


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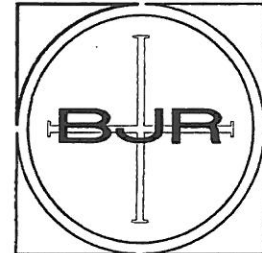
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ELECTRICAL SYMBOLS

NOTE: ALL SYMBOLS INDICATED ABOVE MAY NOT USED
CONTRACTOR SHALL PROVIDE FIXTURE and LAMPS as SHOWN.

MARK:	DESCRIPTION:	MARK:	DESCRIPTION:	MARK:	DESCRIPTION:
	DUPLEX CONVICIENCE OUTLET, 20 A, 125 VOLTS UNLESS NOTED OTHERWISE MOUNTED 18" AFF.		EMERGENCY EXIT SIGN WALL MOUNTED ABOVE DOOR. LITHONIA TITAN LX 5 W 1 R 120 EL N		TELEPHONE RECESSED WALL MOUNTED 12" AFF.
	G.F.I. TYPE CONVICIENCE OUTLET, 20 A, 125 VOLTS UNLESS NOTED OTHERWISE MOUNTED 18" AFF.		EXHAUST FAN 20A 120 V		120V WALL MOUNTED @ 6'-0" AFF. DUPLEX and LIGHT CONNECTED TO TIMER SWITCH AS LOCATED ON LIGHTING PLAN
	50A/208V DISCONNECT SWITCH, PROVIDE PROPER TYPE and SIZE for LOCATION and USE. CONSULT MANUFACTURER CUT SHEET of EQUIPMENT to be INSTALLED for PROPER SIZING.		EMERGENCY LIGHT WALL MOUNTED at 10'-0" AFF. by LITHONIA QUANTUM ELM2 H with 5.4w per LAMP		MP-1 200 AMP 120/208 VOLT THREE PHASE 4 WIRE 2 SECTION CIRCUIT BREAKER PANEL BOARD
	PROVIDE and INSTALL JUNCTION BOX for TENANT PROVIDED ELECTRICAL FIXTURE. 20 AMP 120V U.O.		HEATING, VENTING and AIR CONDITIONING THERMOSTAT		ELECTRICAL METER SUPPLIED BY OVERHEAD SUPPLY LINE
	ELECTRICAL SWITCH 20A 120V TYP.		TELEPHONE BACKBOARD		CT. CABINET (APPROXIMATELY 30" x 30" x 10" DEEP to be INSTALLED BETWEEN METER and MAIN DISCONNECT
			CLOSED CIRCUIT TELEVISION WITH WALL MOUNTED BRACKETS at 1'-0" AFF.		400 AMP 120/208 VOLT THREE PHASE 4 WIRE HEAVY DUTY DISCONNECT SWITCH FUSIBLE NEMA 3R

ELECTRICAL GENERAL NOTES

- LAMPS: ALL NEW FLUORESCENT LAMPS (F40T12) SHALL BE COOL WHITE, or COLOR IMPROVED COOL WHITE, WITH A 4100 DEGREE K COLOR TEMPERATURE 2950 MIN INITIAL LUMENS, 20,000 HOURS RATED LIFE, and 62 MIN CRI, UNLO.
- APPROVED MANUFACTURERS OF SWITCHES AND RECEPTACLES ARE HUBBELL, ARROW HART, BRYANT, LEVITON, PASS & SEYMOUR, GENERAL ELECTRIC, SLATER OR EQUAL.
- EXCAVATIONS: PERFORM ALL NECESSARY EXCAVATING AND BACK-FILLING REQUIRED FOR THIS INSTALLATION. ALL EXCAVATIONS BELOW THE BOTTOM OF FOOTINGS SHALL BE BACKFILLED WITH 2000 PSI CONCRETE, WHERE DITCHES ARE CUT FOR OUTSIDE RUNS OF CONDUIT, REPLACE AND TAMP THE EARTH IN 12" LAYERS AND LEAVE THE GROUND LEVEL AND EQUAL TO ITS ORIGINAL CONDITION.
- AS-BUILT DRAWINGS: MAINTAIN AS-BUILT DRAWINGS, UPDATED DAILY DURING CONSTRUCTION, AND PRESENT THE OWNER WITH ONE SET UPON COMPLETION. PROVIDE THE OWNER'S PERSONNEL WITH ON-SITE INSTRUCTION IN THE OPERATION AND MAINTENANCE OF THE COMPLETED ELECTRICAL SYSTEM.
- CLEAN-UP: LEAVE THE ELECTRICAL PORTION OF THE WORK IN A CLEAN AND FINISHED CONDITION.
- SHOP DRAWINGS: PROVIDE SHOP DRAWINGS FOR THE FOLLOWING ITEMS: PANELBOARDS, LIGHTING FIXTURES, MOTOR STARTERS, TWO STAGE LIGHTING CONTROL UNIT.
- ELECTRICAL CONTRACTOR BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS HUNG

- IN CEILINGS, PILASTERS, PARTITIONS, WALLS, ETC. as SHOWN in the ARCHITECTURAL DRAWINGS and DETAILS. IF ANY SUCH WORK IS SO INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAIL OR DESIGN CANNOT BE FOLLOWED, 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.
- PERFORM TEST REQUIRED BY THE OWNER OR THE IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING.
- ALL TEST SHALL BE MADE IN ACCORDANCE WITH WITH LATEST STANDARD OF THE IEEE AND THE NATIONAL CODE.
- MINIMUM CONDUCTOR SIZE SHALL BE #12 THRU #14. MINIMUM CONDUIT SIZE SHALL BE 3/4", TYPE ENT FOR INTERIOR WORK. RIGID ALUMINUM SHALL BE USED OUTDOORS.
- CONTRACTOR SHALL INSTALL WIRING & OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
- INSTALL WEATHER PROOF and GROUND FAULT RECETACLES AT EXTERIOR LOCATIONS.
- BONDING and GROUNDING - NFPA 10-230-63, NFPA 250-23, 250-71, & 250-72.
- BOND GROUNDED NEUTRAL TO SERVICE DISCONNECT PER NFPA 10-250-23B.
- TYPE OUT ALL PANEL BOARD DIRECTORIES.
- FUSES SHALL BE ITC CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
- PROVIDE SERVICES OF A LICENSED FIRE DETECTION AND ALARM CONTRACTOR TO DESIGN & INSTALL A FIRE DETECTION ALARM & SECURITY SYSTEM TO EXTEND TO EXISTING SYSTEM.

- CORRIDOR LIGHTS SHALL BE CONNECTED TO EXISTING CORRIDOR LIGHT SYSTEM.
- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE, THE STATE OF LOUISIANA ELECTRICAL CODE AND ALL OTHER INSPECTIONS DEPARTMENTS HAVING JURISDICTION FOR OBTAINING CERTIFICATES OR APPROVAL WHERE REQUIRED.
- ALL MATERIAL FURNISHED SHALL BE NEW AND SHALL BE UL LISTED.
- THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. DO NOT SCALE OR DIMENSIONS TO DETERMINE EXACT LOCATION AND ELEVATION OF ALL LIGHTING FIXTURES, RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED IN FIELD, UNLESS NOTED OTHERWISE.
- THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. DO NOT SCALE DRAWINGS. LOCATIONS OF RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED IN FIELD.
- PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION.
- WHERE MORE THAN ONE ELECTRICAL SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE.
- ALL COMMUNICATION WORK, TELEPHONE BACKBOARD, CABLE, EQUIPMENT and COMPUTER CABLING and EQUIPMENT SHALL BE TENANT SUPPLIED and INSTALLED.

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ELECTRICAL
PANEL
SCHEDULE
and RISER
DIAGRAM

E1

