



162 PRESTON STREET OTTAWA, ONTARIO, K1R 7P7  
T: 613-298-8905 F: 906-597-2021

**GENERAL NOTES**

1. DO NOT SCALE DRAWINGS. FIGURED DIMENSIONS ONLY TO BE USED.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
3. ALL WORK DESCRIBED UNDER THIS CONTRACT TO COMPLY WITH THE MOST CURRENT EDITION OF THE ONTARIO BUILDING CODE, AND/OR NATIONAL BUILDING CODE, AND/OR OTHER CODES AND BY-LAWS IN EFFECT.

**POWER NOTES**

1. PROVIDE NEW TYPED, DATED PANEL DIRECTORIES FOR ALL PANELS AND ANNOTATE CIRCUIT NUMBERS ON AS BUILT DRAWINGS. SUBMIT A COPY OF PANEL DIRECTORIES TO ENGINEER.
2. AT COMPLETION OF WORK, WITH ALL LOADS IN OPERATION, INCLUDING LOADS ON SUB-PANELS, MEASURE CURRENT VALUES IN AMPERES PER PHASE AND NEUTRAL IN FEEDER TO EACH OF THE PANELS. ENSURE LOADS ARE PROPERLY BALANCED & SUBMIT REPORT IN LETTER FORM TO ENGINEER.
3. PROVIDE DEDICATED NEUTRALS FOR ALL RECEPTACLE CIRCUITS.
4. FOR EXACT LOCATION OF DEVICES, COORDINATE WITH ARCHITECTURAL DRAWINGS AND/OR DETERMINE ON SITE
5. CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AND POWER DURING CONSTRUCTION PERIOD FOR EACH FLOOR

**CUTTING & CORE DRILLING:**

1. PROVIDE CUTTING, PATCHING & CORING OF ALL WALLS, CEILING, AND OTHER SURFACES REQUIRED TO FIT THE ELECTRICAL EQUIPMENT. CHECK WITH BUILDING MANAGEMENT PRIOR TO CORE DRILLING & CUTTING OF FLOOR SLAB, REGARDING BUILDING REQUIREMENTS & POLICES. PRIOR TO SLAB CUTTING OR CORING FIRST RADIO SCAN THE SLAB & COORDINATE DRILLING TO MINIMIZE CUTTING OF THE REINFORCING STEEL. THE STOP ALL NEW FIRE RATED PENETRATIONS. THE CONTRACTOR IS TO INCLUDE IN TENDER PRICE ALL WORK ASSOCIATED WITH CORE DRILLING AFTER NORMAL WORKING HOURS; OBTAIN WRITTEN VERIFICATION OF THE LOCATIONS FROM THE ARCHITECT PRIOR TO DRILLING.

**CLIENT:**  
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**ISSUE RECORD**

No	DATE	REVISION
1	13-05-2016	ISSUED FOR CLIENT REVIEW
2	28-09-2018	ISSUED FOR REVIEW
3	27-06-2019	ISSUED FOR BUILDING PERMIT
4	8-11-2019	ISSUED FOR TENDER

**Actual Project Month**

**CLIENT:**

**Actual Project Month**

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GENERAL NOTES:	LIGHTING NOTES
1. ELECTRICAL CONTRACTOR TO ENSURE ALL EXISTING CEILING MOUNTED JUNCTION BOXES TO BE CLOSED. PROVIDE COVERPLATES AS REQUIRED.	1. LIGHTING ON NORMAL POWER
2. REFER TO ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR MOUNTING HEIGHTS AND LOCATION OF OUTLETS.	1. CONNECT LUMINAIRES TO SUIT INDICATED LAYOUT. EXTEND WIRING AS NECESSARY AND CONNECT LUMINAIRES TO EXISTING LIGHTING CIRCUITS. TURN OVER SURPLUS TO OWNER.
3. ANNOTATE CIRCUIT NUMBERS ON AS BUILT DRAWINGS, MEASURE AND REPORT CIRCUIT LOAD TO THE ENGINEER. BALANCE LOADS.	2. INDEPENDENTLY SUPPORT NEW LUMINAIRES FROM CEILING SLAB TO COMPLY WITH CODE REQUIREMENTS.
4. COORDINATE WITH MECHANICAL DUCTWORK TO AVOID INTERFERENCE	3. SUPPORT AND SECURE TO SLAB ALL WIRING.
5. ELECTRICAL WORK TO BE DONE IN ACCORDANCE WITH NEW INTERIOR DESIGNER'S LAYOUT.	4. FOR EXACT LOCATION OF DEVICES COORDINATE WITH ARCHITECTURAL DRAWINGS AND/OR DETERMINE ON SITE.
7. COORDINATE WITH INTERIOR DESIGNER'S INSTRUCTIONS FOR ALL THE ABOVE WORK.	5. CONNECT NEW LIGHT FIXTURES AS SHOWN.
8. PRIOR TO CLOSING THE CEILING, ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER THAT AN INSPECTION IS REQUIRED BEFORE CONTINUING.	6. TRACE AND RECORD EMERGENCY BRANCH CIRCUIT NUMBERS FOR EXIT SIGNS.
9. FOR ALL CEILING MOUNTED JUNCTION BOXES: ELECTRICAL CONTRACTOR SHALL PAINT THE COVER WITH A MATTE FINISH PAINT AND PROVIDE BROTHER P-TOUCH LABELS INDICATING PANEL NAME AND CIRCUIT NUMBERS. LETTERING TO BE BLACK ON WHITE BACKGROUND, MINIMUM 1" (25mm) HIGH.	

EQUIPMENT SPECIFICATIONS CONT.	EQUIPMENT SPECIFICATIONS CONT.
1. BRANCH CIRCUIT BREAKERS IN PANELBOARDS: - INSTALL CASE CIRCUIT BREAKER SIZED AS INDICATED. (1) MOUNTED CASE CIRCUIT BREAKER SIZED AS INDICATED. (2) COPPER BUS, FROM MAIN SECTION TO DISTRIBUTION SECTIONS INCLUDING VERTICAL BUSSING. (3) BUSBARS AND FULL CAPACITY NEUTRAL BUSBARS, CONTINUOUS RATING AS INDICATED. EXTENDING FULL LENGTH OF CUBICLE, SUITABLY SUPPORTED ON INSULATORS. MAIN CONNECTIONS BETWEEN BUS AND MAJOR SWITCHING COMPONENTS. BUSBARS AND MAIN CONNECTIONS: 99.30% CONDUCTIVITY COPPER. PROVISION FOR EXTENSION OF BUS ON BOTH SIDES OF UNIT WITHOUT NEED FOR FURTHER DRILLING OR PREPARATION IN FIELD.	BRANCH CIRCUIT WIRING & DEVICES GENERAL: 1. ALL CONDUCTORS TO BE COPPER, MINIMUM #12 2. ALL WIRING CONCEALED EXCEPT AS OTHERWISE NOTED. BRANCH CIRCUIT WIRING 1. BRANCH CIRCUIT WIRING TO BE: - 1. INDIVIDUAL, R90 INSULATED CONDUCTORS IN EMT - 2. EXCEPTIONS TO GENERAL WIRING METHOD: - 1. BX CABLE SHALL BE USED FOR FINAL CONNECTION TO LIGHT FIXTURES AND LIKE EQUIPMENT IN DROPPED CEILING SPACES, MAXIMUM LENGTH 2000 MM. - 2. FLEXIBLE CONDUIT TO BE USED FOR EQUIPMENT CONNECTION WHERE EQUIPMENT SUBJECT TO VIBRATION ROUGHING-IN: 1. MOUNTING HEIGHTS OF SWITCHES TO BE 1100MM MM. RECEPTACLES: 450 MM, 150 MM OVER COUNTER TOPS 2. CONFRM DOOR SWINGS, EQUIPMENT LOCATIONS AND CODE 3. REQUIRED SPACING PRIOR TO ROUGHING-IN 3. PROVIDE MOUNTED VARIOUS BARRED ENCLOSURES FOR OUTLET BRASSES IN EXTERIOR WALLS AND CEILING 4. MAXIMUM NUMBER OF GENERAL PURPOSE RECEPTACLES ON A CIRCUIT IS 6 WHERE NOT OTHERWISE SHOWN ON THE DRAWINGS.
2. DISTRIBUTION SECTIONS TO CONTAIN: (1) MOUNTED CASE CIRCUIT BREAKER SIZED AS INDICATED. (2) COPPER BUS, FROM MAIN SECTION TO DISTRIBUTION SECTIONS INCLUDING VERTICAL BUSSING. (3) BUSBARS AND FULL CAPACITY NEUTRAL BUSBARS, CONTINUOUS RATING AS INDICATED. EXTENDING FULL LENGTH OF CUBICLE, SUITABLY SUPPORTED ON INSULATORS. MAIN CONNECTIONS BETWEEN BUS AND MAJOR SWITCHING COMPONENTS. BUSBARS AND MAIN CONNECTIONS: 99.30% CONDUCTIVITY COPPER. PROVISION FOR EXTENSION OF BUS ON BOTH SIDES OF UNIT WITHOUT NEED FOR FURTHER DRILLING OR PREPARATION IN FIELD.	DEVICES: 1. DEVICES TO BE SPECIFICATION GRADE EQUIVALENT TO PASS & SETWOUR SPECIFICATION GRADE, STAINLESS STEEL PLATE IN SHOP & OFFICE. 2. ALL EXTERIOR RECEPTACLES TO BE INDIVIDUAL, GROUND FAULT PROTECTED TYPE, WATER-ROOF OVERERS WHEN INSTALLED OUTSIDE. 3. WIRE AND CABLE TRAYS SHALL BE USED FOR ALL WIRING AND CABLES. 4. GRO. AND FAULT M. 120S SECOND TRIP, RESET/TEST PUSHER BUTTON// 5. MOTION SWITCHES, 15A, 120V, SINGLE POLE & 3 WAY, INFRARED, 1/2 ADJUSTABLE TIME, OVERRIDE SWITCH EMERGENCY LIGHTING: 1. WIRE BATTERY PACK (S) ON LOCAL LIGHTING CIRCUIT SO INDIVIDUAL BRANCH CIRCUIT FAILURE OPERATES EMERGENCY LIGHTING 2. BATTERY PACK TO BE 12V 360W SEALED HEAD (10 YEAR LIFE) 3. BATTERY PACK TO BE 12V, 100HR MR16 HALOGEN EQUAL TO AMLITE SERIES 4. LIGHTING HEADS TO BE 12V, 12W, 100HR MR16 HALOGEN EQUAL TO AMLITE SERIES
3. 250V PANELBOARDS, BUS AND BREAKERS RATED FOR 22KA (SYMMETRICAL) INTERRUPTING CAPACITY MINIMUM OR AS INDICATED IN COORDINATION STUDY.	FORCE FLOW HEATERS 1. INTEGRAL THERMOSTAT FOR WALL MOUNT, REMOVE FOR CEILING MOUNT 2. WESTON FA SERIES OR EQUAL 3. PROVIDE ADAPTER KIT WHERE RECESSED SHOWN BUT WALL TOO SHALLOW TO ALLOW FULL RECESS COMMUNICATIONS 1. PROVIDE OUTLET BOXES AND OUTLET PLATES FOR ALL TELEPHONE, DATA AND MAJOR SWITCHING COMPONENTS. BUSBARS AND MAIN CONNECTIONS: 99.30% CONDUCTIVITY COPPER. PROVISION FOR EXTENSION OF BUS ON BOTH SIDES OF UNIT WITHOUT NEED FOR FURTHER DRILLING OR PREPARATION IN FIELD. 4. PROVIDE DEDICATED GROUND TERMINAL(S) WIRED BACK TO THE MAIN SERVICE.
4. SEQUENCE PHASE BUSSING WITH ODD NUMBERED BREAKERS ON LEFT AND EVEN ON RIGHT, WITH EACH BREAKER IDENTIFIED BY PERMANENT NUMBER EACH PANELBOARD. NUMBER AND NUMBER OF PHASE: 5. NUMBER AND SIZE OF BRANCH CIRCUIT BREAKERS AS INDICATED 6. TWO KEYS FOR EACH PANELBOARD AND KEY PANELBOARDS ALIKE. 7. MAINS, SUITABLE FOR BOLT-ON BREAKERS, COPPER BUS UNLESS SPECIFIED OTHERWISE. 8. TRIM WITH CONCEALED FRONT BOLTS AND HINGES, 14 GAUGE UP TO 24 CIRCUIT, 12 GAUGE FOR LARGER PANELS. 9. DISTRIBUTION PANELS SHALL BE MINIMUM 12 GAUGE CONSTRUCTION. 10. FEEDERS AND CONDUIT FOR ALL PANELBOARD FEEDERS AND CONDUIT UP TO CEILING LEVEL UNLESS SPECIFIED OTHERWISE. TERMINATE CONDUITS LOCATED IN CEILING LEVEL IN JUNCTION BOX.	MISCELLANEOUS SYSTEMS AND EQUIPMENT: CONTRACTOR 1. MECHANICALLY HELD, CONTROL COIL TO MATCH EXISTING SYSTEMS, VOLTAGE AS INDICATED, CSA 1 ENCLOSURE, SIZE AS INDICATED TESTING AND COMMISSIONING 1. CONFRM INSULATION RESISTANCE AND CONTINUITY OF ALL WIRING 2. PROGRAM TIME CLOCK TO ENGINEERS REQUIREMENTS
5. PANELBOARDS AND SIZE OF BRANCH CIRCUIT BREAKERS AS INDICATED 6. TWO KEYS FOR EACH PANELBOARD AND KEY PANELBOARDS ALIKE. 7. MAINS, SUITABLE FOR BOLT-ON BREAKERS, COPPER BUS UNLESS SPECIFIED OTHERWISE. 8. TRIM WITH CONCEALED FRONT BOLTS AND HINGES, 14 GAUGE UP TO 24 CIRCUIT, 12 GAUGE FOR LARGER PANELS. 9. DISTRIBUTION PANELS SHALL BE MINIMUM 12 GAUGE CONSTRUCTION. 10. FEEDERS AND CONDUIT FOR ALL PANELBOARD FEEDERS AND CONDUIT UP TO CEILING LEVEL UNLESS SPECIFIED OTHERWISE. TERMINATE CONDUITS LOCATED IN CEILING LEVEL IN JUNCTION BOX.	

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19. SHOP DRAWINGS: PROVIDE SIX (6) COPIES OF SHOP DRAWINGS FOR THE FOLLOWING EQUIPMENT: - LIGHT FIXTURES - PANELBOARDS - TRANSFORMERS - SAFETY/DISCONNECT SWITCHES - TUBINGS 20. RECORD DRAWINGS: PROVIDE A SET OF MARK-UP "AS-BUILT" PRINTS FOR RECORD PURPOSES, INDICATING WIRING DIAGRAMS, WIRING ROUTES, CIRCUITS ETC. 21. PROVIDE BROTHER P-TOUCH LABELS, INDICATING CIRCUIT AND PANEL AT ALL EQUIPMENT AND JUNCTION BOXES. 22. REMOVE ALL REDUNDANT MATERIALS, CONDUITS AND WIRING TO SOURCE OF SUPPLY OF MATERIALS UNLESS OTHERWISE INDICATED. 23. CONFRM FAULT LEVEL AT FACILITY BEFORE ORDERING EQUIPMENT AND ADJUST SHORT CIRCUIT RATING AS REQUIRED. 24. ALL SURFACE ELECTRICAL PANELS, SPLITTERS ETC. TO BE INSTALLED ON PLYWOOD BACKBOARDS//WITH DRYWALL COVER. 25. CONFRM LOADS OF ALL EQUIPMENT SUPPLIED BY OTHERS BY BEFORE APPROVED SHOP DRAWINGS OR OTHERWISE BEFORE PROCEEDING.	19. SHOP DRAWINGS: PROVIDE SIX (6) COPIES OF SHOP DRAWINGS FOR THE FOLLOWING EQUIPMENT: - LIGHT FIXTURES - PANELBOARDS - TRANSFORMERS - SAFETY/DISCONNECT SWITCHES - TUBINGS 20. RECORD DRAWINGS: PROVIDE A SET OF MARK-UP "AS-BUILT" PRINTS FOR RECORD PURPOSES, INDICATING WIRING DIAGRAMS, WIRING ROUTES, CIRCUITS ETC. 21. PROVIDE BROTHER P-TOUCH LABELS, INDICATING CIRCUIT AND PANEL AT ALL EQUIPMENT AND JUNCTION BOXES. 22. REMOVE ALL REDUNDANT MATERIALS, CONDUITS AND WIRING TO SOURCE OF SUPPLY OF MATERIALS UNLESS OTHERWISE INDICATED. 23. CONFRM FAULT LEVEL AT FACILITY BEFORE ORDERING EQUIPMENT AND ADJUST SHORT CIRCUIT RATING AS REQUIRED. 24. ALL SURFACE ELECTRICAL PANELS, SPLITTERS ETC. TO BE INSTALLED ON PLYWOOD BACKBOARDS//WITH DRYWALL COVER. 25. CONFRM LOADS OF ALL EQUIPMENT SUPPLIED BY OTHERS BY BEFORE APPROVED SHOP DRAWINGS OR OTHERWISE BEFORE PROCEEDING.

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BEFORE FINAL CERTIFICATE OF PAYMENT MAY BE CONSIDERED, FURNISH COPIES OF ALL DRAWINGS AS MAY BE REQUIRED TO COMPLY WITH ABOVE. NOTIFY INSPECTION AUTHORITIES IN SUFFICIENT TIME FOR THEM TO INSPECT WORK. 5. EXAMINE SITE AND LOCAL CONDITIONS AFFECTING WORK UNDER THIS DIVISION TO ENSURE THAT WORK CARRIED OUT WITHOUT CHANGES TO DRAWINGS. NO ALLOWANCE WILL BE MADE LATER FOR ANY EXPENSE INCURRED THROUGH FAILURE TO MAKE THIS EXAMINATION. START OF WORK WILL BE DEEMED EVIDENCE OF ACCEPTANCE OF, AND SATISFACTION WITH, EXISTING CONDITIONS. 6. GUARANTEE ALL WORK FOR 12 MONTHS FROM DATE OF ACCEPTANCE. 7. PROTECTION: ENSURE THAT ALL PRECAUTIONS ARE TAKEN TO PROTECT ALL PERSONNEL FROM HAZARDS DURING THE WORK. PROTECT ALL EQUIPMENT FROM DAMAGE FROM ANY CAUSE INCLUDING WEATHER. 8. MATERIALS: USE ONLY NEW MATERIALS, FULLY CSA APPROVED FOR USE AS INSTALLED, AND TO MEET THIS SPECIFICATION IN ALL RESPECTS. 9. CUTTING AND DRILLING: HOLES SHALL NOT BE CUT IN STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE ENGINEER. ALL DRILLING OPERATIONS SHALL BE USED FOR MAKING HOLES TO PLACE STUDS THROUGH SLABS AND FIRE SEPARATIONS WITH FIRE STOP CALCULATING. 10. GROUNDING: GROUND ALL EQUIPMENT WITH APPROVED FITTINGS AND GROUND CONDUCTORS OF AMPLE CAPACITY AS REQUIRED BY THE CSA ELECTRICAL CODE. ALL GROUND CONDUCTORS SHALL HAVE GREEN INSULATION, OR BE CODED WITH PERMANENTLY ATTACHED GREEN TAPE 3/4" WIDE AT EACH END. ALL GROUND WIRING SHALL BE INSULATED, IN CONDUITS, PROVIDE GROUND CONDUCTOR IN ALL CONDUITS. 11. CLEAN UP: DURING THE COURSE OF CONSTRUCTION AND UPON COMPLETION, REMOVE ALL RUBBISH AND WASTE RESULTING FROM WORK, TO THE EXTENT OF THE TENDER AND NECESSARY, ALL ELECTRICAL EQUIPMENT AND LEAVE IN A FIRST CLASS CONDITION. 12. THE WORK AS COVERED BY THESE SPECIFICATIONS AND PLANS IS INTENDED TO COMPLY EXACTLY WITH THE LATEST RULES AND REGULATIONS OF THE INSPECTION AUTHORITIES, AND THESE RULES ARE TO BE CONSIDERED AN INTEGRAL PART OF THESE SPECIFICATIONS. IN CASE OF CONFLICT, ANY RULING BY THE INSPECTION AUTHORITY SHALL BE FINAL. ALL CHANGES AND ALTERATIONS TO THE CONTRACTOR'S WORK REQUIRED BY AN AUTHORIZED INSPECTOR OR ANY AUTHORITY HAVING JURISDICTION SHALL BE CARRIED OUT AND NOT AT THE EXPENSE OF THE OWNER. 13. MANUFACTURER'S INSTRUCTIONS REGARDING THE HANDLING, INSTALLING AND TESTING OF EQUIPMENT SPECIFIED HEREIN SHALL BE CONSIDERED PART OF THIS SPECIFICATION. 14. CUTTING AND PATCHING: IT SHALL BE THE RESPONSIBILITY OF THIS DIVISION TO CARRY OUT ALL REQUIRED CUTTING AND PATCHING FOR COMPLETION OF THIS PORTION OF THE CONTRACT. PATCHED SURFACES ARE TO BE PRIME FINISHED READY FOR FINAL COVERING BY OTHERS. 15. WIRING AND RACEWAYS: - ALL WIRING SHALL BE COPPER RW90 #12 CONDUCTOR MINIMUM. 3/4" ALL NEW RACEWAYS SHALL BE EMT CONDUIT, MIN. 3/4" CONCEALED UNLESS OTHERWISE INDICATED. 16. DEVICES, SWITCHES AND RECEPTACLES TO BE CONFRMAL GRADE WITH COVER PLATES TO CONFRM WITH ARCHITECTURAL DRAWINGS UNLESS SPECIFIED OTHERWISE. 17. LIGHTING FIXTURES: PROVIDE NEW LIGHTING FIXTURES, COMPLETE WITH LAMPS AS INDICATED IN LIGHT FIXTURE LIST, WHERE INDICATED. 18. FIXTURE INSTALLATION: DO NOT MOUNT FIXTURES ABOVE PIPES, DUCTS OR EQUIPMENT. CHECK LAYOUTS OF WORK BY OTHER TRADES.	1. COMPLY WITH THE REQUIREMENTS OF THE INSTRUCTION TO BIDDERS, THE GENERAL CONDITIONS OF THE CONTRACT AND THE SUPPLEMENTARY GENERAL CONDITIONS INCLUDED IN THE TENDER DOCUMENTS. 2. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND BY-LAWS AND BE INSTALLED BY WORKMEN SKILLED IN THAT PARTICULAR PORTION OF THE CONTRACT. 3. 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MANUFACTURER'S INSTRUCTIONS REGARDING THE HANDLING, INSTALLING AND TESTING OF EQUIPMENT SPECIFIED HEREIN SHALL BE CONSIDERED PART OF THIS SPECIFICATION. 14. CUTTING AND PATCHING: IT SHALL BE THE RESPONSIBILITY OF THIS DIVISION TO CARRY OUT ALL REQUIRED CUTTING AND PATCHING FOR COMPLETION OF THIS PORTION OF THE CONTRACT. PATCHED SURFACES ARE TO BE PRIME FINISHED READY FOR FINAL COVERING BY OTHERS. 15. WIRING AND RACEWAYS: - ALL WIRING SHALL BE COPPER RW90 #12 CONDUCTOR MINIMUM. 3/4" ALL NEW RACEWAYS SHALL BE EMT CONDUIT, MIN. 3/4" CONCEALED UNLESS OTHERWISE INDICATED. 16. DEVICES, SWITCHES AND RECEPTACLES TO BE CONFRMAL GRADE WITH COVER PLATES TO CONFRM WITH ARCHITECTURAL DRAWINGS UNLESS SPECIFIED OTHERWISE. 17. LIGHTING FIXTURES: PROVIDE NEW LIGHTING FIXTURES, COMPLETE WITH LAMPS AS INDICATED IN LIGHT FIXTURE LIST, WHERE INDICATED. 18. FIXTURE INSTALLATION: DO NOT MOUNT FIXTURES ABOVE PIPES, DUCTS OR EQUIPMENT. CHECK LAYOUTS OF WORK BY OTHER TRADES.

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