- CONDUIT ROUTING WITH ALL OTHER TRADES. . ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL TO BUILDING WALLS AND BEAMS EXCEPT WHERE OTHERWISE SHOWN. CONTRACTOR SHALL INSTALL
- 3. DEFLECTION/EXPANSION FITTINGS SHALL BE PROVIDED WHERE RIGID METAL CONDUIT CROSSES STRUCTURAL EXPANSION JOINTS.

CONDUIT IN SUCH A MANNER TO AVOID ALL INTERFERENCES.

- F. EXPOSED CONDUIT SHALL BE SUPPORTED ON WALLS OR CEILINGS BY APPROVED HANGERS OF ANGLE OR CHANNEL CONSTRUCTION. CONDUITS SHALL BE SUPPORTED AT LEAST EVERY EIGHT (8) FEET.
- . ALL SPARE CONDUITS SHALL BE TERMINATED AS SHOWN ON CONDUIT LAYOUTS AND SHALL BE CAPPED 3" ABOVE FINISHED FLOOR.
- 3. NO CONDUIT SHALL BE SMALLER THAN $rac{3}{4}$ " UNLESS NOTED OTHERWISE ON
- . EXACT CONDUIT STUB-UP LOCATIONS ARE TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR BASED ON CERTIFIED MANUFACTURER'S DRAWINGS OF THE RESPECTIVE EQUIPMENT. CONDUIT SHALL BE INSTALLED TO AGREE WITH EQUIPMENT FURNISHED.
- B. ALL LIGHTING WIRING SHALL BE #12AWG. UNLESS OTHERWISE NOTED. THE NUMBER OF WIRES SHOWN ON THE DRAWINGS IS NOT NECESSARILY THE CORRECT NUMBER REQUIRED. THE CONTRACTOR SHALL INSTALL AS MANY AS ARE NECESSARY FOR PROVIDING A COMPLETE ELECTRICAL SYSTEM IN EACH
- CONDUITS PASSING THROUGH BUILDING FLOORS OR WALLS BELOW GRADE ARE TO BE INSTALLED WITH WATERTIGHT THRU WALL CONDUIT SEAL FITTINGS.
- 10. EQUIPMENT FURNISHED BY OTHERS SHALL BE INSTALLED & ENERGIZED BY THE ELECTRICAL CONTRACTOR.
- 11. ONLY CONDUITS HAVING OUTSIDE DIAMETERS NO LARGER THAN ONE—THIRD OF THE THICKNESS OF SLAB MAY BE INSTALLED WITHIN THE CONCRETE
- 12. CONDUITS IN STRUCTURAL SLABS ARE TO BE SPACED SO AS TO PROVIDE NO LESS THAN THREE CONDUIT DIAMETERS, CENTER TO CENTER, WHEREVER POSSIBLE. LARGER SPACING IS PREFERRED.
- 13. CONTINUOUS ROWS OF CONDUITS ARE NOT TO BE PLACED IMMEDIATELY ALONG BEARING ENDS OF SLABS.
- 14. THE ELECTRICAL CONTRACTOR SHALL NOT ENDANGER THE STABILITY OF THE STRUCTURE OR ANY PART THEREOF BY CUTTING, DRILLING OR OTHERWISE, AND SHALL NOT IN ANY WAY CUT OR ALTER THE WORK OF ANY OTHER CONTRACTOR, EXCEPT WITH THE WRITTEN CONSENT OF AND UNDER THE DIRECTION OF THE ARCHITECT AND/OR GENERAL CONTRACTOR.
- 15. THE ELECTRICAL CONTRACTOR SHALL SECURE ALL APPROVALS AND CERTIFICATES AND PAY ALL FEES FOR ALL THE WORK INSTALLED. CERTIFICATES SHALL BE DELIVERED TO THE GENERAL CONTRACTOR BEFORE FINAL PAYMENT WILL BE MADE
- 16. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST APPLICABLE VERSION OF THE NEC AS WELL AS ALL STATE AND LOCAL CODES.
- 17. THE DRAWINGS INDICATE AND THE SPECIFICATIONS DESCRIBE THE GENERAL ARRANGEMENTS AND LOCATION OF OUTLET BOXES, ETC. THE CONTRACTOR SHALL, WITHOUT EXTRA COST TO THE OWNER, MAKE ALL REASONABLE MODIFICATIONS IN THE WORK AS MAY BE REQUIRED TO PREVENT CONFLICT WITH EXISTING CONDITIONS, THE WORK OF OTHER TRADES AND FOR THE PROPER INSTALLATION OF THE WORK.
- 18. PRIOR TO SUBMISSION OF BID PROPOSAL. THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE CAREFULLY THE EXISTING CONDITIONS AND THE DIFFICULTIES THAT WILL BE INCURRED DURING THE PERFORMANCE OF HIS
- A. VERIFY & COORDINATE CONDUIT ROUTING.
- B. VERIFY & COORDINATE SCOPE OF DEMOLITION WORK.
- C. VERIFY & COORDINATE SCOPE OF WORK INVOLVING CONNECTIONS TO EXISTING BASE BUILDING SYSTEMS.
- D. VERIFY SCOPE OF WORK THAT HAS TO BE DONE WITH EXISTING FIRE
- ALARM SYSTEM AS REQUIRED TO ACCOMMODATE ALL ADDED DEVICES. . VERIFY WITH GENERAL CONTRACTOR SCOPE OF WORK ASSOCIATED
- WITH RIGGING OF EQUIPMENT TO BE PREPURCHASED.
- COORDINATE WITH THE BUILDING ENGINEER AND GENERAL CONTRACTOR SHUT DOWNS OF EXISTING FACILITIES.
- 19. ARRANGE FOR SITE VISIT WITH THE BLDG. OWNER REPRESENTATIVE AND GENERAL CONTRACTOR.
- 20. CLAIMS FOR ADDITIONAL COMPENSATION ARISING DUE TO THE FAILURE OF THE CONTRACTOR TO FULLY UNDERSTAND THE SITE CONDITIONS SHALL NOT BE PAID FOR BY ANY OTHER PARTY.
- 21. CONNECTIONS TO EXISTING WORK:
 - A. INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES.
 - B. TEMPORARY SHUTDOWNS OF EXISTING SERVICES:
 - a. AT NO ADDITIONAL CHARGES.
 - b. AT TIMES NOT TO INTERFERE WITH NORMAL OPERATION OF EXISTING SERVICES.
 - c. ONLY WITH WRITTEN CONSENT OF THE GENERAL CONTRACTOR AND/OR BUILDING OWNERS REPRESENTATIVE.
 - C. ALARM AND EMERGENCY SYSTEMS: NOT TO BE INTERRUPTED. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES AS REQUIRED WITH NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK.
- CONNECT NEW WORK TO EXISTING WORK IN NEAT AND ACCEPTABLE MANNER. RESTORE EXISTING DISTURBED WORK TO ORIGINAL CONDITION, INCLUDING MAINTENANCE OF WIRING CONTINUITY AS
- PRIOR TO DEMOLITION OF AN EXISTING POWER PANEL, THE CONTRACTOR SHALL SEARCH OUT ALL EXISTING CIRCUITS FED FROM THE PANEL TO PREVENT ANY ACCIDENTAL SERVICE INTERRUPTIONS.
- 22. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. CONDUIT OVER 10 FEET IN WHICH WIRING IS NOT INSTALLED-FURNISH PULL

SWITCHBOARDS, PANEL BOARDS, INDUSTRIAL CONTROL

EXAMINATION, ADJUSTMENT SERVICING OR MAINTENANCE

WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN

BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE

OF THE EQUIPMENT.

QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH

HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO

EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE

PANELS, METER SOCKET ENCLOSURES, AND MOTOR

CONTROL CENTERS THAT ARE LIKELY TO REQUIRE

- 23. DO NOT PULL THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32 DEG F (O DEG C). PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUITS AS REQUIRED BY CODE.
- 24. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. INSTALL SWITCH ON SIDE OPPOSITE HINGE; VERIFY FINAL DOOR HINGE LOCATION IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.
- 25. JUNCTION & PULL BOXES: DO NOT LOCATE EXPOSED IN FINISH SPACES UNLESS REQUIRED BY NEC. WHERE NECESSARY, REROUTE CONDUIT OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. PROVIDE PULL BOXES AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE AND COORDINATE LOCATIONS WITH OTHER TRADES. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. FOR EMPTY CONDUITS, INSTALL PULL BOXES EVERY 100 FEET AND AS INDICATED. COORDINATE LOCATIONS WITH
- 26. SUPPORT PANEL, JUNCTION & PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON CONDUIT.
- 27. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.
- 28. FOR EACH LOCATION OF OTHER TRADES EQUIPMENT, SEE RESPECTIVE TRADE
- 29. FOR RECEPTACLE & OUTLETS MOUNTING HEIGHTS AND POSITION (HORIZONTAL, VERTICAL), COORDINATE WITH ARCHITECT, OWNER, REPRESENTATIVE & DATA/ COMMUNICATION CONSULTANT.
- 30. CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS INDICATED ON DETAILS SHEETS, PLANS, SPECIFICATIONS AND ALL PERTINENT EQUIPMENT REQUIRED FOR A COMPLETE WORKABLE SYSTEM.
- 31. USE OF ISOLATED TYPE GROUNDING CONDUCTOR FOR IG TYPE RECEPTACLES. PLUG MOLDS & EQUIPMENT DOES NOT RELIEVE REQUIREMENT FOR GROUNDING CONDUIT SYSTEM, DEVICES AND EQUIPMENT AS REQUIRED BY ALL APPLICABLE CODES. PROVIDE AND INSTALL GROUNDING FITTING, EQUIPMENT GROUND WIRING ETC. AS REQUIRED.
- 32. ALL CONDUITS, TRANSFORMERS ETC. SHALL BE SUPPORTED FROM STRUCTURAL STEEL ONLY. COORDINATE WITH GENERAL CONTRACTOR.
- 33. ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT IN ELECTRICAL AND SERVICE SWITCHBOARD ROOM SHALL BE INSTALLED ON 4" CONCRETE PAD AS REQUIRED TO SUPPORT EACH SECTION OF EQUIPMENT. COORDINATE WITH GENERAL CONTRACTOR.
- 34. PROVIDE BARRIERS IN ALL PULL BOXES FOR CONDUIT SETS.
- 35. PAINT AND RUST PROOF ALL HARDWARE & CONDUITS ON ROOF AND IN EXPOSED AREAS AS DIRECTED BY GENERAL CONTRACTOR.
- 36. NUMBER SHOWN ADJACENT TO LIGHTING FIXTURES, RECEPTACLES, OUTLETS, JUNCTION BOXES ETC. INDICATES CIRCUIT NUMBER.
- 37. ALL GROUND CONNECTIONS TO THE BUILDING STEEL SHALL BE EXOTHERMIC
- 38. FOR RAISED FLOOR SYSTEMS, THE ELECTRICAL CONTRACTOR SHALL DRILL HOLE IN THE FLOOR TILE FOR TRANSITION FROM BELOW FLOOR TO DEVICE
- 39. FLEXIBLE CONNECTIONS IN EXPOSED AREAS SHALL NOT EXCEED 18"
- 40. ALL EQUIPMENT DEVICES, WIRING, ETC. SHOWN ON THE DRAWINGS IS NEW UNLESS OTHERWISE NOTED.
- 41. ELECTRICAL CONTRACTOR SHALL PROVIDE SLEEVES/ OPENINGS FOR ALL CONDUIT RISERS PENETRATING WALLS, ROOF & FLOOR SLABS. ALL ROOF AND MECH. ROOMS SLAB PENETRATIONS SHALL BE WATERPROOF. METHOD OF PENETRATIONS & FIRE/WATER WATER PROOFING SHALL BE APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER, COORDINATE WITH GENERAL CONTRACTOR
- 42. ELECTRICAL CONTRACTOR SHALL BECOME FAMILIAR AND COMPLY WITH OWNERS BUILDING STANDARDS FOR CONSTRUCTION.
- 43. ALL FINAL CONNECTIONS TO VIBRATING EQUIPMENT (MOTORS, GENERATORS ETC.) SHALL BE THROUGH A LIQUID TIGHT FLEXIBLE METAL CONDUIT.
- 44. LOCATION OF ALL SLAB PENETRATIONS FOR SLEEVES & CONDUITS SHALL BE REVIEWED & APPROVED BY STRUCTURAL ENGINEER & ARCHITECT.
- 45. CONTRACTOR SHALL WIRE NO MORE THAN EIGHT CONVENIENCE RECEPTACLES TO A 20A SINGLE POLE CIRCUIT. UTILIZE 2-#12&1 #12 GND IN 34" CONDUIT & 1-20A SINGLE POLE CIRCUIT BREAKER FOR EACH CIRCUIT. INSTALL ADDITIONAL CIRCUIT AS NECESSARY TO MEET THIS REQUIREMENT.
- 46. ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE SEALED FIRE AND SMOKE TIGHT WITH AN APPROPRIATE U.L. LISTED FIRESTOPPING
- MATERIAL AND OR SYSTEM. 47. ALL WIRING IN PATIENT CARE AREAS SHALL BR PROVIDED WITH AN INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR AND SHALL BE INSTALLED IN A METALLIC RACEWAY SYSTEM LISTED AS AN EQUIPMENT GROUNDING CONDUCTOR.
- 48. THE TERMS "PROVIDE" OR "FURNISH", AS USED ON THESE PLANS, INDICATE THAT THE CONTRACTOR IS TO FURNISH AND INSTALL THE REFERENCED EQUIPMENT OR SYSTEMS IN THEIR ENTIRETY AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
- 49. CONTRACT CLOSE OUT: IN THE PRESENCE OF THE OWNER, ENGINEER OR ARCHITECT; DEMONSTRATING OPERATION OF SYSTEMS AND THAT ALL SPECIFICATIONS HAVE BEEN MET TO THE SATISFACTION OF ALL PARTIES.
- 50. IT IS THE INTENTION THAT THESE SPECIFICATIONS, AND DRAWINGS ACCOMPANYING SAME, SHALL PROVIDE FOR THE FURNISHING AND INSTALLING OF THE () SYSTEMS COMPLETE AS SPECIFIED AND SHOWN. ANY WORK SHOWN ON THE DRAWINGS AND NOT PARTICULARLY DESCRIBED IN THE SPECIFICATIONS OR VICE VERSA, OR ANY WORK CHANGES WHICH MAY BE EVIDENTLY NECESSARY TO COMPLETE THE INSTALLATION SHALL BE FURNISHED BY THIS CONTRACTOR.
- 51. IT IS THE INTENT AND PURPOSE OF THESE SPECIFICATIONS AND DRAWINGS TO INCLUDE AND PROVIDE FOR ALL MATERIALS, APPLIANCES AND LABOR TO PROPERLY COMPLETE AND LEAVE IN PERFECT WORKING CONDITION THE ENTIRE SYSTEM HEREINAFTER SPECIFIED. ANY MATERIAL, LABOR OR APPLIANCE NOT SPECIFICALLY MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE DRAWINGS, BUT NECESSARY FOR A COMPLETE INSTALLATION MUST BE FURNISHED BY THIS CONTRACTOR.
- 52. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE ALTERATIONS AND/OR NEW CONSTRUCTION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS TO PROVIDE COMPLETE NEW SYSTEMS IN EVERY RESPECT, CAPABLE OF OPERATING AS DESIGNED. IT IS NOT INTENDED THAT EVERY FITTING, MINOR DETAIL OR FEATURE BE SHOWN ON DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DETAIL NECESSARY FOR COMPLETION OF THESE SYSTEMS IN ACCORDANCE WITH GOOD PRACTICE.

ENERGY CODE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CODE.

UNIFORM CODE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 UNIFORM CODE.

ELECTRICAL DEMOLITION NOTES:

AREAS TO BE DEMOLISHED.

- 1. COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT
- 2. DISCONNECT AND REMOVE ALL DEVICES, FIXTURES, FIRE ALARM DEVICES, DATA/TEL, OUTLETS, POWER CONNECTIONS TO HVAC EQUIPMENT AND DISCONNECT SWITCHES, CONDUIT & WIRING FROM ALL WALLS/CEILINGS BEING REMOVED, WITHIN THIS AREA BACK TO POWER PANEL OF ORIGIN. ALL EXISTING CIRCUIT BREAKERS SHALL REMAIN IN PLACE AND LABELED AS "SPARE"
- ALL EXISTING DEVICES SCHEDULED TO REMAIN SHALL BE EXTENDED/RE-CIRCUITED TO MAINTAIN CONTINUITY OF CIRCUIT/DEVICES.
- 4. REMOVALS SHALL INCLUDE, BUT NOT BE LIMITED TO DEVICES. FIXTURES. FIRE ALARM DEVICES. DATA/TEL OUTLETS, POWER CONNECTIONS TO HVAC EQUIPMENT AND DISCONNECT SWITCHES, CONDUIT & WIRING.
- 5. ELECTRICAL CONTRACTOR TO PROVIDE ALL NECESSARY TEMPORARY WORK AND/OR MATERIALS TO RENDER EXISTING SYSTEM OPERATIONAL DURING ALL PHASES OF CONSTRUCTION IN ALL OCCUPIED SPACES. INCLUDING BUT NOT LIMITED TO, POWER, DATA, LIGHTING, EMERGENCY COMPONENTS & ALARMS. COORDINATE WITH ALL TRADES OWNER AND OVERALL CONSTRUCTION PHASING SCHEDULE.
- 6. ALL CUTTING AND PATCHING NECESSARY FOR THE DEMOLITION WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- 7. IT SHALL BE THE OWNER'S RESPONSIBILITY TO REMOVE ANY LOOSE EQUIPMENT, FURNITURE, SUPPLIES, ETC. THAT MAY BE LOCATED IN THE AREA OF WORK.
- 8. THE PLANS ARE INTENDED TO CONVEY THE EXTENT AND SCOPE OF THE DEMOLITION WORK. EVERY ITEM INTENDED FOR REMOVAL MAY NOT BE SHOWN. THE CONTRACTOR IS ADVISED TO SURVEY THE PROJECT SITE BEFORE SUBMITTING A BID FOR DEMOLITION WORK.

FIRE ALARM NOTES:

- 1. REFER TO THE FLOOR PLANS FOR LOCATION & QUANTITY OF FIRE ALARM DEVICES.
- 2. ALL FIRE ALARM WIRING SHALL BE IN TEFLON WIRE AND SHALL BE CONCEALED IN CEILING SPACES & WALLS.
- SYSTEM SCHEMATIC IS A DIAGRAMMATIC REPRESENTATION OF THE FIRE ALARM SYSTEM. THE SYSTEM SHALL BE INSTALLED AND WIRED AS PER THE SYSTEM MANUFACTURER'S RECOMMENDATION FOR A COMPLETE AND OPERABLE SYSTEM.
- 4. CONTRACTOR IS RESPONSIBLE FOR ALL FILING AND FINAL INSPECTION AS PER THE LOCAL AUTHORITY HAVING JURISDICTION.
- CONTRACTOR TO PROVIDE AND INSTALL ALL NECESSARY MODULES, INTERFACE MODULES AND DEVICES REQUIRED TO PROVIDE AN OPERABLE ALARM SYSTEM IN COMPLIANCE WITH ALL CODES.
- FIRE ALARM PANEL SHALL PROVIDE CONTINUOUSLY SUPERVISED MONITORING OF ALL SYSTEMS FOR OPENS, SHORTS AND GROUNDS.
- 7. ACTIVATION OF THE SMOKE DETECTORS SHALL CAUSE A GENERAL ALARM AFTER THE SMOKE DETECTOR PERFORMS VERIFICATION.
- ACTIVATION OF ANY PULL STATION OR HEAT DETECTOR SHALL IMMEDIATELY CAUSE THE ALARM PANEL TO ENTER THE ALARM MODE. 9. UPON ENTERING THE PANEL ALARM MODE, THE ALARM
- INDICATING DEVICE SHALL BE ACTIVATED, AND THE SUPPLY FANS OVER 2,000 CFM SHALL SHUT-DOWN AND THE DIGITAL COMMUNICATOR SHALL NOTIFY THE CENTRAL RECEIVING STATION. (LOCAL FIRE CONTROL CENTER).
- 10. CONTRACTOR SHALL PROVIDE ALL NECESSARY ADDITIONAL RELAY DEVICES OR POWER TRANSFORMERS FOR PROPER OPERATION OF THE FAN SHUT-DOWN UNITS AND OTHER RELATED DEVICES.
- 11. BATTERY BACKUP SHALL PROVIDE A MINIMUM OF 24 HRS. OPERATION WITH A 15 MINUTE ALARM AT THE END OF 24
- 12. NEW FIRE ALARM SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA CODES 70, 70E, 72, BCNYS, FCNYS, AS WELL AS ALL LOCAL AND STATE CODE REQUIREMENTS.
- 13. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL APPURTENANCES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. MODEL NUMBERS GIVEN MAY NOT INCLUDE ALL SPECIFIC REQUIRED ACCESSORIES FOR COMPLETE INSTALLATION.
- 14. PROVIDE APPURTENANCES NECESSARY SUCH THAT IF MORE THEN TWO STROBES ARE VISIBLE THEY SHALL FLASH IN SYNCH.
- 15. ENTIRE FIRE DETECTION AND ALARM SYSTEM SHALL BE FURNISHED AND INSTALLED BY A N.Y. STATE LICENSED ALARM CONTRACTOR.
- 16. FIRE ALARM PANEL SHALL BE PROVIDED WITH A REMOTE DIALER WITH (2) DIRECT CONNECTIONS TO THE LOCAL FIRE CONTROL CENTER.
- 17. FIRE ALARM CONTRACTOR SHALL PROVIDE AND INSTALL A KNOX BOX AT THE ENTRANCE TO THE BUILDING NEAREST THE FIRE ALARM PANEL WITH SIGNAGE ON THE DOOR TO THE FIRE ALARM CONTROL PANEL ROOM. COORDINATE ALL REQUIREMENTS WITH LOCAL FIRE AND BUILDING DEPARTMENT OFFICIALS.
- 18. FIRE ALARM CONTRACTOR SHALL INTERCONNECT CO DETECTORS WITH THE NEW FIRE ALARM SYSTEM FOR PRIMARY POWER AND BATTERY BACKUP. CO ALARM SHALL ANNUNCIATE AS A SUPERVISORY CONDITION.
- 19. ALL AIR HANDLING SYSTEMS RATED 2,000 CFM OR MORE SHALL BE PROVIDED WITH DUCT SMOKE DETECTORS FAN SHUTDOWNS CONNECTED TO THE FIRE ALARM SYSTEM.

POWER SYMBOLS

- SPEC GRADE NEMA 5-20R RECEPTACLE. -GFI INDICATES GROUND FAULT INTERRUPTION -WP INDICATES WEATHER PROOF ENCLOSURE
- SPEC GRADE NEMA 5-20R RECEPTACLE. MOUNT AT 44" AFF OR 6" ABOVE COUNTER, UON. -GFI INDICATES GROUND FAULT INTERRUPTION
- -WP INDICATES WEATHER PROOF ENCLOSURE 2P, 3 WIRE, 250V GROUNDING NEMA 6-30R RECEPTACLE. -GFI INDICATES GROUND FAULT INTERRUPTION

-WP INDICATES WEATHER PROOF ENCLOSURE

- 1P, 3 WIRE, 125V QUAD RECEPTACLE. -GFI INDICATES GROUND FAULT INTERRUPTION -WP INDICATES WEATHER PROOF ENCLOSURE
- 3P, 4 WIRE, 208V GROUNDING NEMA 18-20R RECEPTACLE. -GFI INDICATES GROUND FAULT INTERRUPTION -WP INDICATES WEATHER PROOF ENCLOSURE
- SPECIAL PURPOSE CONNECTION.

JUNCTION BOX, SIZE PER N.E.C.

- 3P, NON-FUSED DISCONNECT SWITCH, FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SHALL HAVE THE SAME # OF POLES AS CONNECTING CIRCUIT UNLESS OTHERWISE NOTED.
- 3P, FUSED DISCONNECT SWITCH, FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SHALL HAVE THE SAME # OF POLES AS CONNECTING CIRCUIT UNLESS OTHERWISE NOTED.
- PULL BOX
- 480Y/277V, 3ø, 4W PANEL BOARD (SEE SCHEDULE) 208Y/120V, 3ø, 4W PANEL BOARD (SEE SCHEDULE)
- CONDUIT HOME RUN TO DESIGNATED PANEL. REFER TO PANEL SCHEDULE FOR CONDUIT & CABLE QUANTITY AND SIZE.
- DOUBLE HOME RUN
- ■■■■ TRIPLE HOME RUN

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- TRANSFORMER \sim
- 120V, OR 208V, 1P, MOTOR STARTER WITH OVERLOADS TO SERVE AS DISCONNECTING MEANS. COORDINATE WITH OTHER TRADES. KEY PAD
 - TRANSFORMER (SIZE SHOWN ON PLAN OR ONE-LINE DIAGRAM) CIRCUIT BREAKER - 100A TRIP - SINGLE POLE
- FUSE SWITCH 100A FUSE 3 POLE
- ELECTRIC METER DOORBELL BUTTON
- DOORBELL CHIME

CLOCK HANGER RECEPTACLE

- CEILING MOUNTED OCCUPANCY SENSOR
- EXIT LIGHT (SEE SCHEDULE) 1P, 20A, TOGGLE SWITCH, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF.

LIGHTING SYMBOLS

- 1P, 20A, KEYED TOGGLE SWITCH, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF.
- 1P, 20A, 3-WAY TOGGLE SWITCH, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF.
- 1P, 20A, 3-WAY TOGGLE SWITCH, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF. 1P, 20A, KEYED 3-WAY TOGGLE SWITCH, PROVIDE WITH MATCHING
- FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF. 1P, 20A, DIMMER SWITCH, PROVIDE WITH MATCHING FACE PLATE. COLOR BY ARCHITECT. MOUNT 48" AFF.
- 1P, 20A, TOGGLE SWITCH WITH PILOT LIGHT, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF.
- 1P, 20A, TOGGLE SWITCH WITH BUILT-IN LIGHT, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF. 1P, 20A, TOGGLE SWITCH WITH BUILT-IN VACANCY SENSOR, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT.
- MOUNT 48" AFF. SAME AS ABOVE EXCEPT WIRED FOR DUAL LIGHTING. SWITCH NEAREST TO DOOR SHALL OPERATE OUTER LAMPS. SECOND
- SWITCH SHALL OPERATE INNER LAMP(S). EMERGENCY WALL PACK FIXTURE (SEE SCHEDULE)
- EMERGENCY WALL PACK FIXTURE WITH EXIT SIGN (SEE SCHEDULE)

REMOTE HEAD SUITABLE FOR OUTDOOR USE, COLOR BY

- ARCHITECT (SEE SCHEDULE)
- LIGHTING RELAY

FLOODLIGHT

ABBREVIATIONS JUNCTION BOX ACOUSTIC CEILING TILE KCMIL ΚV AUTOMATIC DAMPER KILO VOLT AMPERE FRAME KVA KILO VOLT AMP ABOVE FINISHED FLOOR KILO WATT LED LIGHT-EMITTING DIODE AMPERE INTERRUPTING CAPACITY LIGHTING PANEL ALUMINUM LTG ATS AUTOMATIC TRANSFER SWITCH LIGHTING AUTO M.C. MECHANICAL CONTRACTOR AUTOMATIC MCB AWG AMERICAN WIRE GAUGE MAIN CIRCUIT BREAKER BCW MECH BARE COPPER WIRE MECHANICAL CONDUIT MDP MAIN DISTRIBUTION PANEL MLO CAT CATALOG MAIN LUGS ONLY CB MTD CIRCUIT BREAKER MOUNTED CKT MTG CIRCUIT MOUNTING MTS CLG CEILING MANUAL TRANSFER SWITCH CT CURRENT TRANSFORMER NEUTRAL CU COPPER NOT IN CONTRACT DP NEC DISTRIBUTION PANEL NATIONAL ELECTRIC CODE NTS DRINKING FOUNTAIN NOT TO SCALE NM NON-METALLIC CONDUIT DS DISCONNECT (LOCKOUT) SWITCH DWG PULL BOX DRAWING EACH PHASE E.C. **PWR** ELECTRICAL CONTRACTOR POWER ELEC. RECEP RECEPTACLE **ELECTRICAL ELEV** ELEVATOR REQ. REQUIRED E.P.O. EMERGENCY POWER OFF RGS RIGID GALVANIZED STEEL EQUIP. RM EQUIPMENT ROOM ELECTRICAL METALLIC TUBING SCHED. SCHEDULE SECT. FIRE ALARM SECTION FIRE ALARM PANEL SPEC. **SPECIFICATION** SPKR. FLOOR SPEAKER FLEX **FLEXIBLE** SOLENOID VALVE FEET OR FOOT SWITCH FLUOR. **FLUORESCENT SWBD** SWITCH BOARD F.W.E. FURNISHED WITH EQUIPMENT SYS SYSTEM TEL **TELEPHONE** G, GND GROUND GEN. **GENERATOR** TIME CLOCK TYP GFI GROUND FAULT INTERRUPTER TYPICAL G.C. U.N.O. GENERAL CONTRACTOR UNLESS NOTED OTHERWISE HAND HOLE **UPS** UN-INTERRUPTABLE POWER SUPPLY VFC VARIABLE FREQUENCY CONTROLLER HORSEPOWER HS HAND SWITCH VERIFY IN FIELD **HVAC** VSD HEATING, VENTILATING & AIR CONDITIONING VARIABLE SPEED DRIVE WEATHER PROOF INTERRUPTING CAPACITY

THOUSAND CIRCULAR MILS

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ARCHITEC

IT IS A VIOLATION OF THE LAW FC ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR ENGINEER TO ALTER AN ITEM IN ANY WAY. IF A ITEM BEARING THE SEAL OF A ARCHITECT OR ENGINEER ALTERED, THE ALTERING ARCHITEC OR ENGINEER SHALL AFFIX TO HI ITEM THE SEAL AND THE NOTATIO "ALTERED BY" FOLLOWED BY HI SIGNATURE AND THE DATE OF SUC ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION

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DO NOT SCALE DRAWINGS

WRITTEN DIMENSIONS GOVERN



NY PROFESSIONAL ENGINEER NO. 073084-1 SUED 1995; EXP. 8/2

GENERAL SYMBOLS

EXISTING WORK

TRANSFORMER

POINT OF DISCONNECT

COMMUNICATION SYMBOLS

EXISTING TO REMAIN

TELEPHONE OUTLET. PROVIDE & INSTALL CAT 6 CABLE FROM OUTLET LOCATION TO ABOVE CEILING IN 3/2" CONDUIT. MOUNT OUTLET 18"

NEW FIXTURE

ISOLATED GROUND

ELECTRICAL LINE TYPES

-/-/- or ---- EXISTING TO BE REMOVED

——— NFW WIRING

INTERMEDIATE METAL CONDUIT

IG, I

- AFF UNLESS OTHERWISE NOTED. COMBINATION TELEPHONE/DATA OUTLET. PROVIDE & INSTALL (2) CAT. 6 CABLES FROM OUTLET LOCATION TO ABOVE CEILING EACH IN 34" CONDUIT. MOUNT 18" AFF
- UNLESS OTHERWISE NOTED. TELEPHONE WALL OUTLET. PROVIDE & INSTALL CAT 6 CABLE FROM OUTLET LOCATION TO ABOVE CEILING IN 34" CONDUIT. MOUNT OUTLET
- DATA OUTLET. PROVIDE & INSTALL CAT. 6 CABLE FROM OUTLET LOCATION TO ABOVE CEILING EACH IN 34" CONDUIT. MOUNT 18" AFF UNLESS OTHERWISE NOTED.

48" AFF UNLESS OTHERWISE NOTED.

TV OUTLET. PROVIDE & INSTALL PULL STRING FROM OUTLET LOCATION TO ABOVE CEILING EACH IN 34" CONDUIT. MOUNT 18" AFF UNLESS OTHERWISE NOTED.

POINT OF CONNECTION BETWEEN NEW AND

- INDICATES SECTION LETTER

— INDICATES DRAWING NUMBER WHERE LOCATED

XFMR

- FIRE ALARM PULL STATION SMOKE DETECTOR. A=AUXILIARY CONTACTS
- STROBE ONLY ADA COMPLIANT H/S or H/S FIRE ALARM HORN W/STROBE ADA COMPLIANT
- DUCT SMOKE DETECTOR. COORDINATE SIZE OF SAMPLING TUBE WITH DUCTWORK. PROVIDE

FIRE ALARM SYMBOLS

RELAYS AS REQUIRED. CARBON MONOXIDE DETECTOR

Date: September 17, 2024 Revisions:

CERTIFICATE OF AUTHORIZATION #: 0017795 FELLENZERI ENGINEERING LLP

UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A

LICENSED PROFESSIONAL ENGINEER'S SEAL IS A VIOLATION OF

SECTION 7209, SUB-DIVISION 2 OF THE N.Y. STATE EDUCATION LAW.

FELLENZER ENGINEERING, LLP

www.fellp.com 22 Mulberry St., Suite 2A, 181 Church St., Suite 100 Middletown, NY 10940 Poughkeepsie, NY 12601 t 845-343-1481 fx 845-343-4986 t 845-454-9704 fx 855-320-8735 DESIGNED BY E PROJECT #: 23-369

REFERENCE SCALE

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NOTE: CONTRACTOR SHALL MARK OUT AND LOCATE ALL UNDERGROUND UTILITIES AND STRUCTURES ON THE PREMISES. NO ADDITIONAL COMPENSATION

SHALL BE PROVIDED FOR ALTERATIONS TO DESIGN PLANS DUE TO LACK OF LOCATING. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FOR RE-LOCATING OR DAMAGES RESULTING FROM LACK OF LOCATING.