## 50 MONROE STREET ELEVATOR MODERNIZATION MPORTANT !!!! READ COMMENTS LISTED BELOW **FM-5** 50 MONROE ST. C. Biggus 03/18/2022 ROCKVILLE, MD Any changes to the "APPROVED PLANS" shall be submitted to and approved by this Division prior to the 20852 Plans MUST be printed to scale.

# **PROJECT SUMMARY**

THE PROJECT INCLUDES TWO DISTINCT AND RELATED SCOPES OF WORK, AS FOLLOWS.

1. SCOPE OF WORK 1: SCOPE OF WORK 1 INCLUDES ALL WORK ASSOCIATED WITH THE INSTALLATION OF A NEW TEMPORARY RAMP SYSTEM TO PROVIDE ACCESSIBILITY ACCESS FROM THE PLAZA LEVEL THAT CONNECTS TO THE ROCKVILLE METRO STATION TO THE STREET LEVEL AT MONROE STREET. THE WORK INCLUDES THE RAMP SYSTEM RAMP BALLAST, AND RAMP LIGHTING. REFERENCE THE DIVISION 1 SPECIFICATIONS, SPECIFICATIONS 055129 "PREFABRICATED ALUMINUM RAMPS", THE ELECTRICAL SPECIFICATIONS ASSOCIATED WITH THE LIGHTING AT THE RAMP, AND DRAWINGS A-101, A-201. A-301, A-401, A501 AND E-102 FOR INFORMATION REGARDING SCOPE OF WORK

AT THE DISCRETION OF THE CITY OF ROCKVILLE, THE WORK ASSOCIATED WITH SCOPE OF WORK 1 MAY BE CONTRACTED FIRST, SEPARATELY FROM THE CONTRACT FOR SCOPE OF WORK 2.

SCOPE OF WORK 2: SCOPE OF WORK 2 INCLUDES ALL WORK ASSOCIATED WITH THE REPAIR AND MODERNIZATION OF THE EXISTING ELEVATOR, INCLUDING RENOVATIONS IN THE ELEVATOR MACHINE ROOM AND ELECTRICAL ROOM AND IMPROVEMENTS TO THE EXISTING ELEVATOR ENCLOSURE. REFERENCE THE DIVISION 1 SPECIFICATIONS SPECIFICATIONS 096516 "RESILIENT SHEET FLOORING", SPECIFICATION 142423 "HYDRAULIC PASSENGER ELEVATORS" THE ELECTRICAL AND MECHANICAL SPECIFICATIONS, AND DRAWINGS A-101, A-201, E-001, E-002, E-101, AND M-001 FOR INFORMATION REGARDING SCOPE OF WORK 2.

AT THE DISCRETION OF THE CITY OF ROCKVILLE. THE WORK ASSOCIATED WITH SCOPE OF WORK 2 MAY BE CONTRACTED SEPARATELY AND AFTER THE CONTRACT FOR SCOPE OF WORK 1



## DELTA PROJECT NO. 2019.331.003 SEE FIRE MARSHAL **REVIEW COMMENTS** FEBRUARY 16, 2022 These plans have been reviewed for general compliance with NFPA 101, Chapter 5 of the City of Rockville Building Code and Chapter 9, City of Rockville Fire code. 100% SUBMISSION Section 7.1 and to the special requirements of 7.2.5.

# INDEX OF DRAWINGS

### GENERAL

G-001 TITLE SHEET

### ARCHITECTURAL

| A <b>-</b> 101 | PLANS            |
|----------------|------------------|
| A-201          | ELEVATIONS       |
| A-301          | ENLARGED PLANS   |
| A <b>-</b> 401 | ENLARGED SECTION |
| A-501          | DETAILS          |

### ELECTRICAL

| E <b>-</b> 001 | ELEC. COVER SHEET                   |
|----------------|-------------------------------------|
| E-002          | ELEC. NOTES & SCHEDULES             |
| ED-101         | FIRST FLOOR, ELECTRICAL, DEMOLITION |
| E-101          | FIRST FLOOR, ELEC. NEW WORK         |
| E-102          | RAMP ELEC. NEW WORK                 |

### MECHANICAL

M-001 MECHANICAL COVER SHEET



THIS COPY OF THE APPROVED PLANS MUST BE ON-SITE AT ALL TIMES. General Comments: These plans have been reviewed for general compliance with Chapter 5 of the City of shall not be construed as to violate, cancel, or set aside any provisions of the Rockville City Code. INSPECTIONS WILL NOT BE PREFORMED WITHOUT THE APPROVED PLANS.

The APPROVED plans must be on-site for all inspections.

Every ramp used as a component in a means of egress shall conform to the general requirements of

Walking surfaces shall comply with all of the following: (1) Walking surfaces shall be nominally level.

(2) The slope of a walking surface in the direction of travel shall not exceed 1 in 20, unless the ramp requirements of 7.2.5 are met.

(3) The slope perpendicular to the direction of travel shall not exceed 1 in 48. NFPA 101, 7.1.6.3.1.

Walking surfaces in the means of egress shall be slip resistant under foreseeable conditions. NFPA 107 7.1.6.4.

### Where a ramp is used to meet the requirements of 7.1.7.2, the presence and location of ramped portions of walkways shall be readily apparent. NFPA 101, 7.1.7.2.1.

This approval shall not be construed as to violate, cancel or set aside any provisions of the Rockville City

All Inspections must be requested at least 24 hours in advance by calling 240 314-5040.

INSPECTIONS WILL NOT BE PREFORMED WITHOUT THE APPROVED PLANS.

New ramps shall be in accordance with NFPA 101, Table 7.2.5.3(a), Table 7.2.5.3(a) New Ramps

Dimensional Criteria: Minimum width clear of all obstructions, except projections not more than 4 1/2 in. (114 mm) at or below handrail height on each side is 44 inches.

The Maximum slope 1 in 12 inches The Maximum cross slope 1 in 48 inches

The Maximum rise for a single ramp run 30 inches

Elementary So

Brodsky Bonnie Park CPA

GHR Air Cond

Rock Cree

0 Earle B. Woo

Ramp construction shall be as follows:

(1) All ramps serving as required means of egress shall be of permanent fixed construction. (3) Ramps constructed with fire-retardant-treated wood shall be not more than 30 in. (760 mm) high, shal have an area of not more than 3000 ft2 (277 m2), and shall not occupy more than 50 percent of the room area.

(4) The ramp floor and landings shall be solid and without perforations.

Ramp Landings shall be as follows:

(1) Ramps shall have landings located at the top, at the bottom, and at door leaves opening onto the

(2) The slope of the landing shall be not steeper than 1 in 48. (3) Every landing shall have a width not less than the width of the ramp.

(4) Every landing, except as otherwise provided in 7.2.5.4.2(5), shall be not less than 60 in. (1525 mm) long in the direction of travel, unless the landing is an approved existing landing. (5) Where the ramp is not part of an accessible route, the ramp landings shall not be required to exceed 48 in. (1220 mm) in the direction of travel, provided that the ramp has a straight run. (6) Any changes in travel direction shall be made only at landings, unless the ramp is an existing ramp. (7) Ramps and intermediate landings shall continue with no decrease in width along the direction of egress travel. NFPA 101, 7.2.5.4.2.

Handrails are required on both sides of ramp run with a rise greater than 6 inches (150 mm). NFPA 101, 7.2.5.5.2.

Provide guards not less than 42" high and such that a 4" sphere cannot pass through any opening, up to a height of 34", in accordance with Chapter 7.

Any Electrical installations shall be in accordance with NFPA 70, The National Electrical Code. All electrical equipment must be clearly labeled, marked or stamped with the symbol of an electrical testing laboratory approved by the Maryland State Fire Marshal.

Review and permit issuance by the City of Rockville Fire Marshal's Office shall not relieve the applicant of the responsibility of compliance with this Code. NFPA 1, Section 1.14.4.

When required by the AHJ, revised construction documents or shop drawings shall be prepared and submitted for review and approval to illustrate corrections or modifications necessitated by field conditions or other revisions to approved plans. NFPA 1, 1.14.5.

## CODES

APPLICABLE CODES:

- . INTERNATIONAL BUILDING CODE, 2018
- **INTERNATIONAL MECHANICAL CODE, 2018** NATIONAL ELECTRIC CODE (NFPA 70) 2017
- 4. ADA STANDARDS, 2010
- NFPA 1 FIRE CODE. 2018
- NFPA 101 LIFE SAFETY CODE, 2018 NFPA 13, 13R, 13D FIRE SPRINKLER CODES, 2016
- 8. NFPA FIRE ALARM CODE. 2016 CITY OF ROCKVILLE CHAPTER 9 LOCAL AMENDMENTS,
- 10. ELEVATOR CODE APPLICABLE TO THE AHJ.
- 11. SAFETY CODE FOR ELEVATORS, ASME A17.1 AND ALL SUPPLEMENTS AS MODIFIED AND ADOPTED BY THE AHJ
- 12. SAFETY CODE FOR ELEVATORS AND ESCALATORS, A17.1S SUPPLEMENT TO A17.1
- 13. GUIDE FOR INSPECTION OF ELEVATORS, ESCALATORS, AND MOVING WALKS, ASME A17.2. 14. SAFETY CODE FOR EXISTING ELEVATORS AND ESCALATORS,
- ASME A17.3 GUIDE FOR EMERGENCY EVACUATION OF PASSENGERS FROM ELEVATORS, ASME A17.4.
- 15. ASME A17.5/CSA-B44.1 ELEVATOR AND ESCALATOR ELECTI EQUIPMENT.

Ramps shall have a running slope not steeper than one unit : (8-percent slope). [REF: 1012.2, IBC 2018].

The clear width of a ramp between handrails, if provided, or o 36 inches minimum. [REF: 1012.5.1, IBC 2018].

Stairs and handrails shall be restored to prior repair state or

Additional permits will be required to be obtained for any Mec before the respective work begins.

Fire Alarm permit required.

Obtain elevator permit from State of Maryland as required.

Elevator repairs and improvements shall be installed in accor regulations and requirements. Obtain final approval of State building permit inspection.

Field inspections shall determine code compliance.

Must follow the Montgomery County Noise Ordinance during

No further items found at this time; any future findings will req conformance. Other agency approvals may be required prior

# OWNER

# City of Rockville, Maryland **111 Maryland Avenu Rockville, Maryland 20**





Construction/Installation subject t inspection by Fire Marshal. Schedule all inspections by visiting

www.rockvillemd.gov/fireinspection

| City of Rockville   |  |
|---|--|
| 2022-1072-ALT   |  |
| of Rockville Code. This approval  |  |
| e change being made in the field.   |  |
| APPROVED<br>THIS APPROVAL SHALL NOT BE  |  |
| CONSTRUED AS TO VIOLATE<br>CANCEL OR SET ASIDE ANY<br>PROVISION OF THE<br>BOCKVILLE CITY CODE |  |
| CITY OF ROCKVILLE, MARYLAND<br>INSPECTION SERVICES DIVISION                                   |  |
| Martin Dasler 03/21/2022  |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
| 2018  |  |
|   |  |
|   |  |
| RICAL ROCKVIIIe<br>RICAL  |  |
| vertical in 12 units horizontal   |  |
| other permissible projections shall be  |  |
| better upon completion of the project.  |  |
| chanical, Plumbing or Electrical work   |  |
|   |  |
| rdance with the State of Maryland<br>of Maryland elevator inspector prior to                  |  |
| demolition.   |  |
| quire proper resolution to code to final inspections.   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
| 1850  |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
| (G-001)   |  |
|   |  |
|   |  |





SCOPE OF WORK 2: ALL WORK ASSOCIATED WITH THE REPAIR AND MODERNIZATION OF THE EXISTING ELEVATOR, INCLUDING RENOVATIONS IN THE ELEVATOR MACHINE ROOM AND ELECTRICAL ROOM. AT THE DISCRETION OF THE CITY OF ROCKVILLE, THE WORK ASSOCIATED WITH SCOPE OF WORK 2 MAY BE CONTRACTED SEPARATELY AND AFTER THE CONTRACT FOR SCOPE OF WORK 1

SCOPE OF WORK 1: ALL WORK ASSOCIATED WITH THE INSTALLATION OF A NEW TEMPORARY RAMP SYSTEM TO PROVIDE ACCESSIBILITY ACCESS FROM THE PLAZA LEVEL TO THE STREET LEVEL, INCLUDING THE RAMP SYSTEM, RAMP BALLAST, AND RAMP LIGHTING. AT THE DISCRETION OF THE CITY OF ROCKVILLE, THE WORK ASSOCIATED WITH SCOPE OF WORK 1 MAY BE CONTRACTED FIRST, SEPARATELY FROM THE CONTRACT FOR SCOPE OF WORK 2



REVIEWED PLAN

PLEASE READ ALL PLAN REVIEW COMMENTS

Construction/Installation subject to inspection by Fire Marshal. Schedule all fire inspections by visiting: www.rockvillemd.gov/fireinspection



# Key Plan SCALE: X'-X"



| Plan                         |   |  |               |  |
|------------------------------|---|--|---------------|--|
|                              |   |  | SCALE: X      | ·-X"   |
|                              |   |  |               |  |
| ct Name                      | Revision  |  | Dat           | e  |
| <b>IGINEERS</b><br>8401<br>E | ARCHITECI<br>ARCHITECI<br>Connecticut Ave<br>Chevy Chase, M<br>Tel: 603.223<br>Fax: 903.223<br>mail: mail@delta-e<br>www.delta-eas.co | <b>S. &amp; SU</b><br><b>S. &amp; </b> | RVEYOR<br>550 | LIF AN ITEM BLARNO. THE SEAL OF AN ENGINEER OR LIND SUMEYOR IS ALTERED. THE ALTERNO ENGINEER OR  |
|                              | 416/2022  | Phase<br>(PROJE)<br>Project No.<br>Project No.<br>PROFESSI<br>HEREBY CERTIF<br>WERE PREPARE<br>THAT I AM A DUL<br>ARCHITECT UNDE<br>MARYLAND, LICI<br>EXPIRATION<br>Date   | CT PHAS       | MANNAW WIRLINGS OF ANY ANY NETWORK OF ANY  |
| ing Title<br>E               |   | ONS  |               | IT IS A VIOLATION OF THE JUW FOR ANY PERSON, IN LESS HE OS SHE IS ACTINO JUPER<br>UND SUM FOR SHULL APTRE TO THE TRAINES ON LESS SEE. AND THE NOTATION ALL ESS |
|                              |   |  |               |  |



Construction/Installation subject to inspection by Fire Marshal. Schedule all fire inspections by visiting: www.rockvillemd.gov/fireinspection













REVIEWED PLAN PLEASE READ ALL PLAN REVIEW COMMENTS



| Key Plan  |   |
|---|---|
| SCALE: X'-X"  |   |
|   |   |
| No. Revision Date Project Name  |   |
| A Connecticut Avenue, Suite 350<br>Chevy Chase, MD 20815<br>Tel: 603.223.0000<br>Fax: 903.223.0000<br>Email: mail@delta-eas.com   | A MITEM BEARING. THE SFAL OF AN ENGINEER OR LAND SURVEYOR IS A TERED. THE ALTERING ENGINEER OR<br>V OF THE ALTERATION)  |
| Seal       Phase<br>(PROJECT PHASE)         Orginal of the search | IFE SATTING UNDER THE DIRECTION OF A LICENSED PROFESSIONL ENGINEER OR LAND SURVEYOR, TO ALTER AN TEN MAY WAY. IF<br>HE NOTTING ALTERED SY FOLLOWED BY HIS OR FER SIGNITURE, AND THE EAR OF SUCH ALTERATION, AND A SHEDRIC DESCRIPTION |
| DETAILS<br>Drawing No.  | (111) S. N. NOLATION OF THE LIVIN FOR ANY FERSON, UNE ESS I.E. OR S. LAND SURVEYOR SHALL KAPTY TO THE TTEMHILD OK HER SELL. AND T   |
| I'UC-A  |   |

| ELECTRICAL CONVENTIONS |   |  |  |  |  |  |
|------------------------|---|--|--|--|--|--|
| LIGHTING               |   |  |  |  |  |  |
|                        | -LUMINAIRE TYPE - SEE LUMINAIRE SCHEDULE  |  |  |  |  |  |
|                        | -CIRCUIT NUMBER   |  |  |  |  |  |
| 10                     | - CONTROL POINT DESIGNATION (IF MORE THAN ONE)  |  |  |  |  |  |
| A                      | -LUMINAIRE WITH INTEGRAL BATTERY BACKUP   |  |  |  |  |  |
| ₽<br>₽                 | - STEM INDICATES WALL MOUNTED LUMINAIRE, MOUNTING<br>HEIGHT AS NOTED  |  |  |  |  |  |
|                        | -NUMBER OF CONTROL POINTS   |  |  |  |  |  |
| •2\$ <sub>OSa,b</sub>  | - TYPE OF CONTROL   |  |  |  |  |  |
|                        | - CONTROL ZONE REFERENCE  |  |  |  |  |  |
| REFERENCE              |   |  |  |  |  |  |
|                        | -SECTION DESIGNATION  |  |  |  |  |  |
| 1<br>(F501)            | -NUMBER DENOTES SECTION IDENTIFICATION  |  |  |  |  |  |
|                        | - DRAWING NUMBER WHERE DETAIL IS LOCATED  |  |  |  |  |  |
|                        | -DETAIL DESIGNATION   |  |  |  |  |  |
| (E501)                 | -NUMBER DENOTES SECTION IDENTIFICATION  |  |  |  |  |  |
|                        | - DRAWING NUMBER WHERE DETAIL IS LOCATED  |  |  |  |  |  |
| 1-                     | - SPECIAL NOTE (APPLIES WHERE INDICATED ON THE DRAWING)   |  |  |  |  |  |
| WIRING                 |   |  |  |  |  |  |
| φ <sup>1</sup>         |   |  |  |  |  |  |
| <b>→</b> 1,3,5(LP-1)   | BRANCH CIRCUIT HOMERUN TO PANEL "LP-1", CIRCUITS #1,3,5   |  |  |  |  |  |
|                        | GENERAL NOTE: WHERE WIRE SIZE IS INDICATED AT THE<br>HOMERUN OR ON THE SCHEDULE TO BE LARGER THAN THE<br>SPECIFIED MINIMUM PROVIDE THE INDICATED WIRE SIZE<br>THROUGHOUT THE ENTIRE BRANCH CIRCUIT. |  |  |  |  |  |
| MOUNTING HEI           | GHTS  |  |  |  |  |  |
|                        |   |  |  |  |  |  |
| Q4"                    |   |  |  |  |  |  |
| PRESENTATION           |   |  |  |  |  |  |
| ◯ Ğ Ք छ                | ELECTRICAL EQUIPMENT DESIGNATED BY SOLID HEAVY<br>LINEWEIGHT INDICATES NEW WORK TO BE PROVIDED.   |  |  |  |  |  |
|                        | ELECTRICAL EQUIPMENT DESIGNATED BY SOLID LIGHT<br>LINEWEIGHT INDICATES EXISTING EQUIPMENT TO REMAIN,<br>UNLESS OTHERWISE INDICATED.   |  |  |  |  |  |
| [ <u>0</u> ] č 🕆 🛯     | ELECTRICAL EQUIPMENT DESIGNATED BY DASHED HEAVY<br>LINEWEIGHT REPRESENTS EXISTING EQUIPMENT TO BE<br>REMOVED AND DISPOSED, UNLESS INDICATED TO BE<br>REMOUNTED, RELOCATED, OR TURNED OVER TO OWNER. |  |  |  |  |  |
| FIRE ALARM             |   |  |  |  |  |  |
| 15cd                   | —CANDELA RATING<br>—DEVICE TYPE   |  |  |  |  |  |
|                        |   |  |  |  |  |  |

| ELECTRICAL ABBREVIATIONS |  |             |   |            |  |             |  |  |  |
|--------------------------|--|-------------|---|------------|--|-------------|--|--|--|
| А                        | AMPERE   |             | PROTECTOR                                 |            | MANUFACTURERS ASSOCIATION                  | 1.          |  |  |  |
| ACCU                     | AIR COOLED CONDENSING UNIT                           | GFI         | GROUND FAULT INTERRUPTER                  | NF         | NON-FUSED                                  | 2.          |  |  |  |
| ACU<br>ADA               | AIR CONDITIONING UNIT<br>AMERICANS WITH DISABILITIES | GND<br>GRC  | GROUND<br>GAI VANIZED RIGID STEEL         | NFPA       | NATIONAL FIRE PROTECTION<br>ASSOCIATION    |             |  |  |  |
| , len                    | ACT  | GW          | GROUND WIRE                               | NFSS       | NON-FUSED SAFETY SWITCH                    | 3.          |  |  |  |
| AF                       | AMPERE FRAME, AMPERE FUSE                            |             |   | NM         | NON-METALLIC                               | 4.          |  |  |  |
| AFCI                     | ARC FAULT CIRCUIT                                    | HD<br>HDPF  | HEAVY DUTY<br>HIGH-DENSITY POLYETHYLENE   | NO<br>NTS  | NORMALLY OPEN<br>NOT TO SCALE              | 5           |  |  |  |
| AFF                      | ABOVE FINISHED FLOOR                                 | HOA         | HAND-OFF-AUTOMATIC                        |            | NOTTO COMEL                                | 5.          |  |  |  |
| AFG                      | ABOVE FINISHED GRADE                                 | HP          | HORSEPOWER                                | OCP        | OVERCURRENT PROTECTION                     | 0.          |  |  |  |
| AHU<br>AIC               | AIR HANDLING UNIT                                    | HPU<br>HV   | HEAT PUMP UNIT<br>HIGH VOI TAGE           | OH         | OVERHEAD<br>OVERHEAD ELECTRIC              | 7.          |  |  |  |
| 70                       | CAPACITY   | HVAC        | HEATING VENTILATING AIR                   | OSHA       | OCCUPATIONAL SAFETY AND                    | 8.          |  |  |  |
| AL                       |  | LI <b>7</b> |   |            | HEALTH ADMINISTRATION                      | 9.          |  |  |  |
| ANSI                     | STANDARDS INSTITUTE                                  | ΠZ          | HERIZ                                     | Р          | POLE(1P. 2P. 3P)                           | 10.         |  |  |  |
| ASHRAE                   | AMERICAN SOCIETY OF HEATING,                         | IBC         | INTERNATIONAL BUILDING CODE               | PA         | PUBLIC ADDRESS                             |             |  |  |  |
|                          | REFRIGERATING, AND                                   | ICCB        | INSULATED CASE CIRCUIT                    | PEPCO      | POTOMAC ELECTRIC POWER                     | 11.         |  |  |  |
| ASME                     | AMERICAN SOCIETY OF                                  | IEBC        | INTERNATIONAL EXISTING                    | PF         | POWER FACTOR                               | 12          |  |  |  |
|                          | MECHANICAL ENGINEERS                                 | 1500        | BUILDING CODE                             | PH         | PHASE                                      | 13.         |  |  |  |
| ASTM                     | AMERICAN SOCIETY FOR<br>TESTING AND MATERIALS        | IECC        | INTERNATIONAL ENERGY<br>CONSERVATION CODE | PIR<br>PT  | PASSIVE INFRARED                           | 14.         |  |  |  |
| ASYM                     | ASYMMETRICAL   | IEEE        | INSTITUTE OF ELECTRICAL AND               | PVC        | POLYVINYL CHLORIDE                         | 15.         |  |  |  |
| AT                       | AMPERE TRIP  |             | ELECTRONICS ENGINEERS                     |            |  | 16.         |  |  |  |
| ATS<br>AUX               | AUTOMATIC TRANSFER SWITCH                            | IG<br>IGCC  | ISOLATED GROUND<br>INTERNATIONAL GREEN    | QIY        | QUANTITY                                   | 17.         |  |  |  |
| AWG                      | AMERICAN WIRE GAUGE                                  |             | CONSTRUCTION CODE                         | R          | RACEWAY                                    |             |  |  |  |
| DE                       |  | IMC         |   | REC        |  | 18.         |  |  |  |
| BF<br>BGE                | BALLAST FACTOR<br>BALTIMORE GAS & ELECTRIC           | IN          | INCH                                      | RGS        | RIGID GALVANIZED STEEL                     | 19.         |  |  |  |
| BOD                      | BASIS OF DESIGN                                      | IT          | INFORMATION TECHNOLOGY                    | RM         | ROOM                                       | 20          |  |  |  |
| BS                       | BRANCH SELECTOR                                      | ID          |   | RMS        | ROOT MEAN SQUARE                           | 20.         |  |  |  |
| С                        | CONDUIT  | JD          |   | RTU        | RIGID NONMETALLIC CONDUIT<br>ROOF TOP UNIT | 21.         |  |  |  |
| CB                       | CIRCUIT BREAKER                                      | К           | ONE THOUSAND, KELVIN                      | RX         | REMOVE EXISTING                            | 22.         |  |  |  |
| CCT                      | CORRELATED COLOR                                     | KAIC        | THOUSAND AMPERE                           | SOTE       |  | 23.         |  |  |  |
| CCTV                     | CLOSED CIRCUIT TELEVISION                            | KCMIL       | THOUSAND CIRCULAR MILS                    | JUL        | TELECOMMUNICATIONS                         |             |  |  |  |
| CH                       | CHILLER  | KV          | KILOVOLTS                                 | 0.5        | ENGINEERS                                  |             |  |  |  |
| CKI<br>CMS               | CIRCUIT<br>COMBINATION MOTOR STARTER                 | KVA<br>KW   | KILOVOLT-AMPERES<br>KILOWATTS             | SE<br>SE   | SERVICE ENTRANCE                           |             |  |  |  |
| COMM                     | COMMUNICATION  |             |   | SN         | SOLID NEUTRAL                              |             |  |  |  |
| CRI                      | COLOR RENDERING INDEX                                | LC          |   | SPD        | SURGE PROTECTION DEVICE                    | 24.         |  |  |  |
| CU                       | COPPER   | LED         | LIGHT EMITTING DIODE                      | SS<br>ST   | SAFETY SWITCH<br>SINGLE-THROW              |             |  |  |  |
| CX                       | CONNECT TO EXISTING                                  | LFMC        | LIQUID TIGHT FLEXIBLE METALLIC            | SW         | SWITCH                                     | 25.         |  |  |  |
| CON                      | CONTACTOR  |             | CONDUIT                                   | SWBD       | SWITCHEOARD                                | 00          |  |  |  |
| DOAS                     | DEDICATED OUTDOOR AIR                                | LENC        | NON-METALLIC CONDUIT                      | SWGR       | SYMMETRICAL                                | 26.         |  |  |  |
| 50                       | SYSTEM   | LRA         | LOCKED ROTOR AMPS                         |            |  | 27.         |  |  |  |
| DS<br>DWC                | DISCONNECT SWITCH<br>DRINKING WATER COOLER           | LS          | LIMIT SWITCH, LONG TIME-SHORT             | I<br>TA    | TRANSFORMER                                | 20.         |  |  |  |
| DWG                      | DRAWING  | LSI         | LONG TIME-SHORT                           | TC         | TIME CLOCK                                 |             |  |  |  |
| Е                        |  |             | TIME-INSTANTANEOUS                        | TECH       |  |             |  |  |  |
| EBH                      | ELECTRIC BASEBOARD HEATER                            | LOIG        | TIME-INSTANTANEOUS GROUND                 | IGD        | BAR  |             |  |  |  |
| EBU                      | EMERGENCY BATTERY UNIT                               |             | FAULT                                     | THD        | TOTAL HARMONIC DISTORTION                  |             |  |  |  |
| ECB                      | ENCLOSED CIRCUIT BREAKER                             | LTG         |   | TIA        |  |             |  |  |  |
| EMT                      | ELECTRICAL METALLIC TUBING                           | LV          | LOW VOLTAGE                               | TMGB       | TELECOMMUNICATIONS MAIN                    |             |  |  |  |
| ENCL                     |  | MAN         |   |            |  | 1. Tł       |  |  |  |
| ENI                      | ELECTRICAL NONMETALLIC                               | MAX         | MAXIMUM<br>METAL CLAD. METER CENTER       | TV         | TELEPHONE TERMINAL BOARD                   | 2. M        |  |  |  |
| EQUIP                    | EQUIPMENT  | MCA         | MINIMUM CIRCUIT AMPACITY                  | TVSS       | TRANSIENT VOLTAGE SURGE                    | 3. Pf       |  |  |  |
| ETR<br>E\\//LJ           |  | MCB         |   | TVD        |  | CC          |  |  |  |
| EX                       | EXISTING   | MCCB        | MOLDED CASE CIRCUIT BREAKER               | ITP        | TTPICAL                                    |             |  |  |  |
| _                        |  | MCP         | MOTOR CIRCUIT PROTECTOR                   | UG         | UNDERGROUND                                | 4. ID<br>13 |  |  |  |
| F<br>FA                  | FUSED, FUSIBLE, FAHRENHEIT                           | MDP<br>MGB  | MAIN DISTRIBUTION PANEL                   | UGE        | UNDERGROUND ELECTRIC                       | 5. IN       |  |  |  |
| FAAP                     | FIRE ALARM ANNUNCIATOR                               | MH          | MANHOLE, METAL HALIDE,                    | UL         | UNDERWRITERS LABORATORY                    | W           |  |  |  |
| FAOD                     |  | N 41N I     | MOUNTING HEIGHT                           | UON        | UNLESS OTHERWISE NOTED                     |             |  |  |  |
| FACP                     | FIRE ALARM CONTROL PANEL                             | MIN<br>MLO  | MINIMUM<br>MAIN LUGS ONLY                 | UIP        | UNSHIELDED TWISTED PAIR                    | o. Ar<br>S/ |  |  |  |
| FDR                      | FEEDER   | MMS         | MANUAL MOTOR STARTER                      | V          | VOLTS                                      | 7. E)       |  |  |  |
| FLA                      |  | MOCP        |   |            |  | EL EL       |  |  |  |
| FP                       | FAN POWERED, FIRE PUMP                               | MOD         | MOTOR OPERATED DAMPER                     | VFD<br>VRF | VARIABLE FREQUENUT DRIVE                   |             |  |  |  |
| FSS                      | FUSED SAFETY SWITCH                                  | MTD         | MOUNTED                                   | VSD        | VARIABLE SPEED DRIVE                       | 8. Pr       |  |  |  |
| FT<br>FV/NR              | FEET<br>FUILT VOLTAGE                                | MV          | MEDIUM VOLTAGE                            | ۱۸/        | WIRE WATTS                                 | 9. IN<br>RI |  |  |  |
|                          | NON-REVERSERING                                      | Ν           | NEUTRAL                                   | W/         | WITH                                       | 10. D!      |  |  |  |
| 0                        |  | NAC         | NOTIFICATION APPLIANCE                    | WP         | WEATHERPROOF                               | AI          |  |  |  |
| G<br>GB                  | GROUND<br>GROUND BAR                                 | NC          | URUUTI<br>NORMALLY CLOSED                 | WR         | WEATHER RESISTANT                          | 11. PF      |  |  |  |
| GD                       | GENERAL DUTY   | NEC         | NATIONAL ELECTRICAL CODE                  | XFMR       | TRANSFORMER                                |             |  |  |  |
| GFCI                     |  | NECA        | NATIONAL ELECTRICAL                       | v          |  | 12. Ul      |  |  |  |
| GFEP                     | GROUND FAULT EQUIPMENT                               | NEMA        | NATIONAL ELECTRICAL                       |            | VV I L                                     | 17. Kt      |  |  |  |
|                          |  |             |   |            |  | 15. M       |  |  |  |

| GENERAL | ELECTRICAL | NOTES |
|---------|------------|-------|
|         |            |       |

PROVIDE LABOR, MATERIALS, TOOLS, EQUIPMENT, COORDINATION, DELEGATED DESIGN AND INCIDENTALS NECESSARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM. PERFORM WORK AS REQUIRED BY APPLICABLE CODES, REGULATIONS AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES WITH LAWFUL URISDICTION.

ATERIAL AND EQUIPMENT SHALL BE LISTED AND LABELED BY NATIONALLY RECOGNIZED TESTING LABORATORIES FOR INTENDED SERVICE. GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, PAY FEES AND BACK CHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE URISDICTION.

AINTAIN RECORD DRAWINGS ON SITE. RECORD SET SHALL BE COMPLETE, CURRENT, AND AVAILABLE UPON REQUEST.

SUBMIT FOR APPROVAL, SHOP DRAWINGS FOR EQUIPMENT AND MATERIALS USED ON PROJECT. OBTAIN APPROVAL BY ENGINEER PRIOR TO PURCHASE OF EQUIPMENT AND MATERIALS.

REPAIR OR REPLACE DAMAGE TO FACILITIES AND EQUIPMENT AT NO ADDITIONAL EXPENSE TO OWNER.

PATCH AND REPAIR DISTURBED AREAS TO MATCH ADJACENT SURFACES AND FINISHES.

PROVIDE TEMPORARY POWER AND LIGHTING FOR OTHER TRADES AS REQUIRED TO COMPLETE PROJECT IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS. PRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. PROVIDE COMPONENTS INDICATED ON RISER DIAGRAMS WHETHER OR NOT NDICATED ON PLANS, AND VICE VERSA.

LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND REQUIRE COORDINATION WITH OTHER TRADES. ROUTING OF CONDUIT IS DIAGRAMMATIC IN NATURE AND NOT NTENDED TO SHOW REQUIRED OFFSETS AND DETAILS. OBTAIN DRAWINGS AND SPECIFICATIONS FROM OTHER TRADES AND COORDINATE WITH OTHER TRADES. COORDINATE ELECTRICAL INSTALLATION WITH FIELD CONDITIONS. LOCATIONS SHOWN ARE DIAGRAMMATIC AND MAY REQUIRE ADJUSTMENT IN FIELD.

COORDINATE LOCATIONS OF ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS DRAWINGS PRIOR TO INSTALLATION. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.

REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS REQUIRING SPECIAL CONSTRUCTION.

PERMANENTLY LABEL NEW ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, DEVICE DESIGNATION AND SUPPLY CIRCUIT DESIGNATION.

CORE DRILL CONCRETE WALLS AND FLOORS TO PROVIDE OPENINGS FOR CONDUIT INSTALLATION. MAXIMUM CORE DRILL SIZE SHALL BE 5-INCH DIAMETER. SPACE CORE PRILL LOCATIONS A MINIMUM OF 6" FROM EACH OTHER, MEASURED FROM CORE DRILL OPENINGS. PROPERLY SEAL OPENINGS ACCORDING TO LOCATION AND APPLICATION. PROVIDE EACH CIRCUIT WITH A DEDICATED NEUTRAL UNLESS NOTED OTHERWISE.

CONDUIT HOMERUNS SHOWN ON DRAWINGS WITH MORE THAN 3 CURRENT CARRYING CONDUCTORS ARE SHOWN DIAGRAMMATICALLY. DO NOT INSTALL MORE THAN 3 CURRENT CARRYING CONDUCTORS IN A SINGLE RACEWAY UNLESS INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

PROVIDE FIRESTOPPING FOR ELECTRICAL PENETRATIONS IN FIRE RATED ASSEMBLIES. NSTALL ELECTRICAL WORK IN A NEAT AND WORKMANLIKE MANNER, RECTILINEAR TO BUILDING STRUCTURE. INSTALL RACEWAYS TIGHT TO STRUCTURAL CEILING AND AS IIGH AS POSSIBLE WITHIN CEILING SPACES TO MAINTAIN MAXIMUM AMOUNT OF CLEAR SPACE BELOW RACEWAY.

NSTALL RACEWAYS CONCEALED IN BUILDING FINISHES FOR ALL EXTERIOR MOUNTED DEVICES. DO NOT ROUTE EXPOSED ON BUILDING EXTERIOR.

NSTALL RACEWAYS CONCEALED IN WALLS, UNDER FLOORS, ABOVE CEILINGS, ETC., EXCEPT AS FOLLOWS: WHERE SUSPENDED CEILINGS ARE NOT PROVIDED.

IN VERTICAL SHAFTS, ELECTRICAL CLOSETS, ETC., MECHANICAL AND ELECTRICAL EQUIPMENT SPACES WHERE CONCEALMENT IS NOT PRACTICAL.

AT SURFACE-MOUNT PANELBOARDS IN OTHERWISE FINISHED SPACES LIMITED TO VERTICAL RUNS ABOVE AND BELOW PANEL.

WHERE REQUIRED FOR EQUIPMENT CONNECTIONS.

WHERE SPECIFICALLY INDICATED ON DRAWINGS. WNER-FURNISHED EQUIPMENT: VERIFY AND COORDINATE ELECTRICAL ROUGH-IN REQUIREMENTS FOR OWNER-FURNISHED EQUIPMENT WITH OWNER PRIOR TO PULLING CONDUCTORS AND MAKING FINAL CONNECTIONS. LACK OF COORDINATION SHALL NOT JUSTIFY CHANGE ORDERS.

VHERE SUBMITTED EQUIPMENT REQUIRES REVISION TO OVERCURRENT PROTECTION, CONDUIT, AND WIRING, COORDINATE AND MAKE CHANGE TO PROVIDE A COMPLETE NSTALLATION IN ACCORDANCE WITH APPLICABLE CODES.

PRIOR TO SUBMITTING BID, VISIT SITE AND BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS AND PROPOSED CONSTRUCTION

COORDINATE WORK WITH PHASES INDICATED ON DRAWINGS OF OTHER TRADES.

PROVIDE NECESSARY SUPPORTING STRUT CHANNEL AND ALL MISCELLANEOUS HARDWARE FOR MOUNTING ELECTRICAL EQUIPMENT. MAINTAIN NEC WORKING CLEARANCES. COORDINATE EXACT LOCATION IN FIELD. DO NOT MOUNT ON EQUIPMENT ACCESS PANELS OR IN EQUIPMENT MANUFACTURER'S RECOMMENDED AINTENANCE CLEARANCES.

## GENERAL ELECTRICAL DEMOLITION/RENOVATION NOTES

E FACILITY WILL REMAIN OCCUPIED DURING RENOVATIONS.

NIMIZE OUTAGES. COORDINATE OUTAGES WITH OWNER.

IOR TO DEMOLITION. FIELD VERIFY CONDUITS, CONDUCTORS, AND CABLES THAT PASS THROUGH AND SERVE AREAS OUTSIDE THE SCOPE OF WORK, MAINTAIN INTINUITY OF SYSTEMS. PROTECT OR RELOCATE SYSTEMS TO PREVENT DAMAGE. RESTORE SYSTEMS TO NORMAL OPERATION. COORDINATE SYSTEM OUTAGES WITH WNER.

ENTIFY NONFUNCTIONING EQUIPMENT AND DEVICES TO REMAIN AFTER DEMOLITION. NOTIFY OWNER IN WRITING PRIOR TO DEMOLITION. UPON COMPLETION OF WORK, ISURE THAT EXISTING EQUIPMENT AND DEVICES OPERATE PROPERLY.

AREAS REQUIRING THE PERFORMANCE OF WORK OF OTHER TRADES, CAREFULLY DISCONNECT, MAKE SAFE, REMOVE AND STORE ELECTRICAL ITEMS IN PATH OF DRK. REINSTALL AND RECONNECT SAME AFTER COMPLETION OF OTHER TRADE'S WORK. COORDINATE REMOVAL OF EQUIPMENT WITH OTHER TRADES PRIOR TO EMOLITION.

TER DEMOLITION VERIFY AND SUPPORT REMAINING CABLES, WIRES, AND CONDUIT IN ACCORDANCE WITH THE APPLICABLE VERSION OF THE NEC. DISCONNECT, MAKE AFE AND REMOVE ABANDONED AND TEMPORARY WIRE WITHIN SPACE.

ISTING CONDITIONS REFLECT GENERAL OBSERVATIONS AND ARE NOT INTENDED TO INDICATE DETAILS OR DIMENSIONS. NO ATTEMPT HAS BEEN MADE TO SHOW ALL ECTRICAL EQUIPMENT. VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. NOTIFY ARCHITECT IN WRITING IF CONDITIONS ARE DISCOVERED THAT PREVENT ECUTION OF WORK.

OTECT REMAINING ELECTRICAL SYSTEMS AND COMPONENTS FROM DAMAGE. REMOVE PROTECTIVE MATERIALS UPON COMPLETION OF WORK. AREAS NOTED TO REMOVE ELECTRICAL WORK, REMOVE CONDUITS AND ASSOCIATED SUPPORTS BACK TO POINT OF CONCEALMENT AND REMOVE WIRING BACK TO

MAINING ACTIVE DEVICES OR SOURCE. SPOSE OF LIGHTING BALLASTS AND CAPACITORS CONTAINING PCB'S, AS DEFINED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA), IN ACCORDANCE WITH PPLICABLE LOCAL, STATE, FEDERAL AND EPA REGULATIONS.

OVIDE OWNER WITH INVENTORY OF MAJOR ELECTRICAL ITEMS TO BE REMOVED. OWNER WILL SELECT ITEMS TO BE SALVAGED. TURN SALVAGED ITEMS OVER TO VNER. ITEMS REJECTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVE DEMOLISHED ITEMS FROM SITE.

PDATE PANELBOARD DIRECTORIES TO INCLUDE MODIFICATIONS BY THIS PROJECT. TRACE CIRCUITS TO IDENTIFY UNLABELED LOADS. PAIR DISTURBED AREAS TO MATCH EXISTING CONDITIONS.

ROVIDE BLANK COVER PLATES FOR DEVICES REMOVED WHEN A REPLACEMENT DEVICE IS NOT INDICATED.

INTAIN CONTINUITY OF CIRCUITS AND FEEDERS REMAINING AFTER DEMOLITION IN PANELS INDICATED TO BE DEMOLISHED OR REPLACED. EXTEND EXISTING CIRCUITS AND FEEDERS REMAINING AFTER DEMOLITION TO NEW PANELS. CIRCUIT BREAKER, CONDUIT, AND WIRE SHALL MATCH EXISTING TYPES AND SIZES.

REVIEWED PLAN PLEASE READ ALL PLAN REVIEW COMMENTS





## GENERAL FIRE ALARM NOTES

- 1. VERIFY THAT EXISTING FIRE ALARM SYSTEM IS OPERATIONAL BEFORE MAKING CHANGES OR CONNECTIONS.
- 2. DO NOT INTERRUPT EXISTING FIRE ALARM SYSTEM WITHOUT OWNER'S REPRESENTATIVE'S WRITTEN PERMISSION.
- 3. ENGAGE A MANUFACTURER'S AUTHORIZED SERVICE COMPANY TO PERFORM MODIFICATIONS TO THE FIRE ALARM SYSTEM. 4. FOR NEW DEVICES THAT RECEIVE POWER FROM AN EXISTING CONTROL UNIT'S INITIATING DEVICE CIRCUIT OR SIGNALING LINE CIRCUIT, PROVIDE DEVICES THAT ARE
- LISTED FOR USE WITH THE EXISTING CONTROL UNIT.
- 5. DRAWINGS ARE CONCEPTUAL, INTENDED TO SHOW GENERAL SYSTEM CONFIGURATION AND PERFORMANCE. PREPARE SHOP DRAWINGS AND PROVIDE CONDUITS, WIRING, SYSTEM COMPONENTS AND EQUIPMENT FOR A COMPLETE AND OPERATIONAL SYSTEM IN COMPLIANCE WITH NFPA 70, NFPA 72, NFPA 90A, NFPA 101 IBC, THE AUTHORITY HAVING JURISDICTION AND THE CONTRACT DOCUMENTS.
- 6. CONNECT NEW FIRE ALARM DEVICES TO RESPECTIVE EXISTING FLOOR INITIATING AND SIGNALING CIRCUITS.
- 7. EXISTING FIRE ALARM SYSTEM IS A FIRELITE BY HONEYWELL MODEL MS-5UD-3 CONVENTIONAL FIRE ALARM CONTROL PANEL WITH TONE EVACUATION.
- 8. COORDINATE FIRE ALARM WORK WITH LOCAL FIRE MARSHAL, FIRE ALARM PLANS REVIEW, AND FIRE DEPARTMENT INSPECTORS. 9. OBTAIN AND PAY FOR PERMITS REQUIRED FOR INSTALLATION OF FIRE ALARM SYSTEM. PROVIDE SHOP DRAWING SUBMITTAL DOCUMENTS TO AUTHORITY HAVING JURISDICTION TO OBTAIN PERMIT. SUBMITTAL SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
- A. FIRE ALARM DEVICE AND CABLE SYMBOL LEGEND.
- B. FLOOR PLAN LAYOUT SHOWING LOCATIONS OF ALL DEVICES AND CONTROL EQUIPMENT, INCLUDING MOUNTING HEIGHTS OF ALARM INITIATING DEVICES AND NOTIFICATION DEVICES.
- C. POWER CONNECTION. D. BATTERY CALCULATIONS.
- E. VOLTAGE DROP CALCULATIONS FOR NOTIFICATION APPLIANCE CIRCUITS.
- F. SIZE, TYPE, AND NUMBER OF CONDUCTORS.
- G. MANUFACTURER'S TECHNICAL DATA SHEETS INCLUDING MODEL NUMBERS AND LISTING INFORMATION FOR EQUIPMENT, DEVICES, H. INTERFACE OF FIRE SAFETY CONTROL FUNCTIONS.
- I. FIRE ALARM SYSTEM RISER.
- J. SEQUENCE OF OPERATIONS INPUT/OUTPUT MATRIX.
- K. DEVICE TO DEVICE WIRING.
- 10. INCREASE BATTERY CAPACITY OF FIRE ALARM SYSTEM TO ACCOMMODATE ADDITIONAL LOAD.
- 11. IDENTIFY EACH FIRE ALARM DEVICE AND EQUIPMENT ENCLOSURE. DEVICE LABELS SHALL INDICATE ADDRESS AND ZONE.
- 12. IDENTIFY FIRE ALARM CIRCUITS AT TERMINAL AND JUNCTION LOCATIONS WITH PERMANENT LABELS. PAINT FIRE ALARM CIRCUIT JUNCTION BOX COVERS RED AND LABEL COVER "FIRE ALARM". MARK CONDUITS CARRYING FIRE ALARM SYSTEM CIRCUITS WITH RED STRIPE EVERY 10 FEET.
- 13. PERFORM RE-ACCEPTANCE TESTING IN ACCORDANCE WITH NFPA 72 TO VERIFY PROPER OPERATION OF ADDED OR REPLACED DEVICES INCLUDING BUT NOT LIMITED TO INITIATING DEVICES, NOTIFICATION APPLIANCES, EMERGENCY CONTROL FUNCTION DEVICES AND CONTROL EQUIPMENT.

| DISCONNECT SWITCH SCHEDULE |               |       |                |              |               |                   |           |  |  |
|----------------------------|---------------|-------|----------------|--------------|---------------|-------------------|-----------|--|--|
| DESIGNATION                | AMP<br>RATING | POLES | VOLT<br>RATING | FUSE<br>AMPS | FUSE<br>CLASS | NEMA<br>ENCLOSURE | NOTES     |  |  |
| DS-ELEV                    | 100           | 3     | 600            | 90           | RK1           | 1                 | 1,2,3,4,5 |  |  |
| DS-ELEV CAR LTG            | 30            | 2     | 240            | -            | -             | 1                 | 2,4       |  |  |
| DS-ACCU-1                  | 30            | 2     | 240            | 20           | RK1           | 4X                | 1,2,3,4   |  |  |
| DS-ACU-1                   | 30            | 2     | 240            | 1            | RK1           | 1                 | 1.2.3.4   |  |  |

<u>NOTES:</u> (APPLICABLE TO DISCONNECT SWITCH SCHEDULE ONLY)

1. PROVIDE FUSE AND COORDINATE EXACT EQUIPMENT FUSE SIZE WITH MOTOR OR EQUIPMENT NAMEPLATE DATA DURING CONSTRUCTION .

2. ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE WITH GROUND LUG.

3. PROVIDE ALL FUSIBLE DISCONNECT SWITCHES WITH CLASS R FUSE KIT.

4. LABEL DISCONNECT SWITCHES WITH THE DESIGNATION IDENTIFIED IN THIS SCHEDULE AND THE CIRCUIT NUMBER AND PANELBOARD FROM WHICH IT IS FED, INCLUDING VOLTAGE AND PHASE.

5. FUSED SAFETY SWITCH WITH SHUNT TRIP MODULE. FIELD COORDINATE SIZE OF FUSED SWITCH AND FUSES IN ACCORDANCE WITH ELEVATOR MANUFACTURER'S PUBLISHED CURRENT CHARACTERISTICS INDICATED ON CONFIRMATION OF POWER SUPPLY FORM WHICH WILL BE FURNISHED WITH ELEVATOR SHOP DRAWINGS. (ESTIMATED SIZE: 3P-100A F/SS)



CHARACTERISTICS

GENERAL NOTES:

A. ALL NEW SAFETY SWITCHES, STARTERS, ENCLOSED CIRCUIT BREAKERS, AND

- VARIABLE SPEED MOTOR CONTROLLERS SHALL BE PROVIDED WITH LABELS B. CENTER ALL TEXT HORIZONTALLY.
- C. MODIFY TEXT AS REQUIRED.

D. EQUIPMENT CONNECTED TO NORMAL POWER SYSTEMS SHALL HAVE BLACK

- LETTERS ON WHITE BACKGROUND.
- E. EQUIPMENT CONNECTED TO EMERGENCY POWER SYSTEMS SHALL HAVE WHITE LETTERS ON RED BACKGROUND.



| EX PANELBOARD X<br>SERVICE TYPE: NORMAL<br>MANUFACT URER: SQUARE D<br>TYPE: NQOD |  |      |       |         |             | BUS AM<br>MAIN T`<br>SERVIC<br>MIN. RA | IPACIT Y:<br>YPE: 100<br>E: 208Y/<br>\T ING: 1( | 100A<br>AMCB<br>120 VOLTS,<br>DK AIC RMS | , 3 PHA<br>S SYMN | ASE, 4 W<br>METRIC/ | ire<br>Al Amps | 3       |                       |               |          | MOUNTING:<br>SECTIONS:<br>ENCLOSURE<br>LOCATION: I | : SURFACE<br>1<br>E: NEMA 1<br>ELEC ROOM |       |     |     |
|--|--|------|-------|---------|-------------|--|---|--|-------------------|---------------------|----------------|---------|-----------------------|---------------|----------|--|--|-------|-----|-----|
| CKT  | LOAD DESCRIPTION                           | NOTE | P     | CKT BRE | AKER<br>AUX | PHA                                    | KVA PER PHASE                                   |  | CK<br>AUX         | T BREAKE            | R<br>I P       | ΝΟΤΕ    | l                     | LOAD DESCRIPT | ION      |  | СКТ                                      |       |     |     |
| 1  | ELEVATOR ROOM RECEPTACLE                   | -    | 1     | 20      | - 1         | -                                      | -   |  |                   |                     |                | -       | 20                    | 1             | -        | TRUCK ST   | REET LIGHTS                              |       |     | 2   |
| 3  | TRUCK STREET LIGHTS                        | -    | 1     | 30      | -           |  |   | -  | -                 |                     |                | -       | 30                    | 1             | -        | T RUCK ST  | REET LIGHTS                              |       |     | 4   |
| 5  | TRUCK STREET LIGHTS                        | -    | 1     | 30      | -           |  |   |  |                   | -                   | -              | -       | 20                    | 1             | -        | TIME CLOO  | СК                                       |       |     | 6   |
| 7  | ELEVATOR CONTROLS                          | -    | 1     | 20      | -           | -                                      | -   |  |                   |                     |                | -       | 20                    | 1             | -        | EXHAUST I  | FAN                                      |       |     | 8   |
| 9  | ELEVAT OR PIT LIGHTS                       | -    | 1     | 20      | -           |  |   | -  | -                 |                     |                | -       | 20                    | 1             | -        | ELEVATOR   | RLOW VOLTAGE                             | LIGHT | 6   | 10  |
| 11   | ELEVAT OR BLDG LIGHT S                     | -    | 1     | 20      | -           |  |   |  |                   | -                   | -              | -       | 20                    | 1             | -        | WALL PACK  | (LIGHTS                                  |       |     | 12  |
| 13   | WALL PACK LIGHTS                           | -    | 1     | 20      | -           | -                                      | -   |  |                   |                     |                | -       | 20                    | 1             | -        | RAIL LIGHT   | S  |       |     | 14  |
| 15   | WALL PACK LIGHTS                           | -    | 1     | 20      | -           |  |   | -  | -                 |                     |                | -       | 20                    | 1             | -        | BLDG LIGH  | ITS                                      |       |     | 16  |
| 17   | ST EP LIGHT S                              | -    | 1     | 20      | -           |  |   |  |                   | -                   | -              | -       | 20                    | 1             | -        | BLDG LIGH  | ITS                                      |       |     | 18  |
| 19   | WALL PACK LIGHTS                           | -    | 1     | 20      | -           | -                                      | -   |  |                   |                     |                | -       | 30                    | 1             | -        | T RUCK ST  | REET LIGHTS                              |       |     | 20  |
| 21   | TRUCK STREET LIGHTS                        | -    | 1     | 20      | -           |  |   | -  | -                 |                     |                | -       | 20                    | 1             | -        | PROMENA  | NADE GFI RECEPTACLE                      |       |     | 22  |
| 23   | SPLIT SYSTEM ACU-1 / ACCU-1                | 3    | 2     | 20      | -           |  |   |  |                   | 0.91                | -              | -       | 20                    | 1             | -        | FIRE ALARI   | M CONT ROL PA                            | NEL   |     | 24  |
| 25   | { }  | -    | -     | -       | -           | 0.91                                   | -   |  |                   |                     |                | -       | 20                    | 1             | -        | PROMENA  | DE GFI RECEPTACLE                        |       | 26  |     |
| 27   | ELEVAT OR LIGHT                            | -    | 1     | 20      | -           |  |   | -  | -                 |                     |                | -       | 20                    | 1             | 3        | TEMPORA  | RY RAMP LIGHT                            | ING   |     | 28  |
| 29   | ELEVATOR EMERGENCY SUPPLY CHARGE           | - 1  | 1     | 20      | -           |  |   |  |                   | -                   | -              | -       | 20                    | 1             | -        | ELEVATOR   | R PIT RECEPTAC                           | LE    |     | 30  |
|  |  |      |       |         |             | 0.91                                   | -   | -  | -                 | 0.91                | -              |         |                       |               |          |  |  |       |     |     |
|  |  |      |       |         |             | 0.                                     | 91  | -  |                   | 0.9                 | 91             |         |                       |               |          |  |  |       |     |     |
|  |  |      |       |         |             | 7.                                     | 6A  | -A                                       |                   | 7.0                 | 6A             |         |                       |               |          | LOAD SU  | MMARY (KVA)                              |       |     |     |
| AU   | XILIARIES                                  |      |       |         |             |  |   |  |                   |                     |                |         |                       | LOA           | DTYP     |  | CONNECTED                                | DF    | DEM | AND |
| а  | AFCI BREAKER X GROUND BUS                  | 6    |       | TC      | DTALCO      | NNECTE                                 | ED LOAD   | 1.83                                     |                   |                     |                |         | IGHTING               |               |          |  | 0.00                                     | 100%  | 0.0 | 0   |
| b  | GFCI BREAKER (5mA) SERVICE ENT             | RANC | e lai | BEL     | TOTA        | L DEMAN                                | ID LOAD   | 1.83                                     |                   |                     |                | L L     | RECEPTAC              | CLE (         | SEE NO   | DTE 1)   | 0.00                                     |       | 0.0 | 0   |
| С  | c GFEP BREAKER (30mA) 🔄 INT EGRAL SPD/TVSS |      |       |         |             | DEMAN                                  | ID AMPS   | 5.1                                      |                   |                     |                |         | EQUIPMENT: CONTINUOUS |               | UOUS     | 0.00   | 100%                                     | 0.0   | 0   |     |
| d SHUNT TRIP BREAKER 200% NEUT RAL BUS & LUGS                                    |  |      |       |         |             |  |   |  |                   | _                   |                |         |                       | IT: N         | ON-CC    | NTINUOUS   | 0.00                                     | 100%  | 0.0 | 0   |
| e HANDLE PADLOCK ISOLATED GROUND BUS   |  |      |       | s 🗋     |             |  | LOADS   | SUMMARY                                  | NOTE              | S                   |                | [       | NOTOR                 |               |          | -  | 0.00                                     | 100%  | 0.0 | 0   |
| l f  | HANDLE CLAMP                               |      |       | N       | DTE 1: FI   | IRST 10K                               | VA AT 10  | 00% AND RI                               | EMAIN             | DER AT              | 50%.           | [(      | COOLING (             | (SEE          | NOTE     | 2)   | 1.83                                     | 100%  | 1.8 | 3   |
| g  | RED CB HANDLE                              | .UGS |       | N0      | DTE2:C      | OOLING                                 | CYCLEI  | S GREAT EF                               | RTHA              | N HEAT I            | NG CYC         | LE, H   | HEAT ING (            | SEE           | NOTE     | 2)   | 0.00                                     | 0%    | 0.0 | 0   |
|  |  | GS   |       |         | T           | HEREFO                                 | RECOC   | LING CYCL                                | EISU              | SED.                |                | {       |                       |               |          |  | 0.00                                     | 0%    | 0.0 | 0   |
|  |  |      |       | N0      | DTE3:D      | EMAND F                                | ACTOR   | FROM NE                                  | CTABL             | LEFOR               | KITCHEI<br>-   | N L     |                       | 0==           |          | 2)   | 0.00                                     | 100%  | 0.0 | 0   |
|  |  |      |       |         | E<br>E      |  |   | ER I HAN D                               | WELL              |                     |                |         |                       | SEE           |          | 3)<br>- A)   | 0.00                                     | 100%  | 0.0 | 0   |
|  |  |      |       | N(      | JIE4:D      | EMAND F                                | -ACFOR  | FROM NEO                                 | CIABL             | LEFOR               | ELEVAT         | URS.  I | ELEVAI OR             | (SEI          | = NO [ ] | = 4)   | 0.00                                     | 100%  | 0.0 | 0   |

NOTES: (APPLICABLE TO PANELBOARD X ONLY)

- RATING.
- AND AIC RATING.

| AND | MATERIALS. |  |
|-----|------------|--|
|     |            |  |

| - | - | _ | - | - |
|---|---|---|---|---|
|   |   |   |   |   |
|   |   |   |   |   |
|   |   |   |   |   |
|   |   |   |   |   |
|   |   |   |   |   |
|   |   |   |   |   |
|   |   |   |   |   |
|   |   |   |   |   |
|   |   |   |   |   |
|   |   |   |   |   |
|   |   |   |   |   |
|   |   |   |   |   |
|   |   |   |   |   |
|   |   |   |   |   |
|   |   |   |   |   |
|   |   |   |   |   |
|   |   |   |   |   |

| ELECTRICAL LEGEND |   |                 |  |  |  |  |  |  |
|-------------------|---|-----------------|--|--|--|--|--|--|
| SYMBOL            | SYMBOL DESCRIPTION  |                 |  |  |  |  |  |  |
|                   | LUMINAIRE   |                 |  |  |  |  |  |  |
| Ĵ                 | EMERGENCY LUMINAIRE, BATTERY POWERED - SEE SCHEDULE FOR TYPE  |                 |  |  |  |  |  |  |
| •\$               | SINGLE POLE TOGGLE SWITCH   | 46"             |  |  |  |  |  |  |
| • <sub>\$</sub> P | TOGGLE SWITCH WITH PILOT LIGHT  | 46"             |  |  |  |  |  |  |
| (DUPLEX)          | RECEPTACLE - NEMA CONFIGURATION 5-20R. SHADING INDICATES<br>CONNECTED TO EMERGENCY/STANDBY POWER CIRCUIT<br>SUBSCRIPTS:<br>GFI: WITH 5mA GROUND FAULT INTERRUPTER | 18"             |  |  |  |  |  |  |
| ď                 | SAFETY SWITCH   | 60" TO TOP      |  |  |  |  |  |  |
|                   | PANELBOARD, SURFACE MOUNTED   | 78" TO TOP      |  |  |  |  |  |  |
| T#                | DRY TYPE TRANSFORMER - SIZE AS INDICATED  |                 |  |  |  |  |  |  |
| \$                | FIRE ALARM SYSTEM - SMOKE DETECTOR - AREA, CEILING MOUNT  | /<br>SEE DETAIL |  |  |  |  |  |  |
| ¢                 | FIRE ALARM SYSTEM - HEAT DETECTOR, CEILING MOUNT  | /<br>SEE DETAIL |  |  |  |  |  |  |
|                   | FIRE ALARM SYSTEM - [SPEAKER/HORN] STROBE, CEILING/WALL MOUNT   | / 86"           |  |  |  |  |  |  |
| FACP              | FIRE ALARM SYSTEM - FIRE ALARM CONTROL PANEL  | 78" TO TOP      |  |  |  |  |  |  |
| CR                | FIRE ALARM SYSTEM - FIRE ALARM CONTROL RELAY  |                 |  |  |  |  |  |  |

NOTES: (APPLICABLE TO ELECTRICAL LEGEND ONLY)

1. THE MOUNTING HEIGHTS GIVEN ON THIS SHEET IN THE ELECTRICAL LEGEND ARE GENERAL AND SHALL BE USED ONLY WHEN MOUNTING HEIGHTS CANNOT BE ESTABLISHED BY REFERENCE TO DETAILS,

ELEVATIONS, AND NOTES ON THE DRAWINGS. 2. ALL MOUNTING HEIGHTS, UNLESS OTHERWISE NOTED, SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE OUTLET OR DEVICE.

HEIGHTS OF ALL ITEMS NOT COVERED BY THE ELECTRICAL LEGEND AND NOT SHOWN ON THE DRAWINGS SHALL BE AS DIRECTED BY THE ARCHITECT OR ENGINEER.

4. WHERE PLACING ANY ITEM AT THE HEIGHTS LISTED OR NOTED WILL CAUSE INTERFERENCE WITH THE WORK OF OTHER TRADES, OR IS NOT PHYSICALLY POSSIBLE OR DESIRABLE FOR ONE REASON OR ANOTHER, THE ITEM SHALL BE INSTALLED AT A LOCATION APPROVED BY THE ARCHITECT OR ENGINEER.

1. PROVIDE NEW CIRCUIT BREAKER IN EXISTING AVAILABLE SPACE. MATCH PANELBOARD MANUFACTURER, TYPE, AND AIC

2. REMOVE EXISTING CIRCUIT BREAKER AND PROVIDE NEW IN SAME LOCATION. MATCH PANELBOARD MANUFACTURER, TYPE,

3. RECONNECT NEW LOAD TO EXISTING CIRCUIT BREAKER.

REVIEWED PLAN PLEASE READ ALL PLAN REVIEW COMMENTS





DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

- 1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY DASHED HEAVY LINEWEIGHT (---) INDICATE EXISTING ITEMS TO BE REMOVED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (------) INDICATE EXISTING ITEMS TO REMAIN.
- 2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.
- SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)
- (1) DISCONNECT POWER FROM EXISTING ELEVATOR CONTROLLER. MAKE SAFE FOR REMOVAL.
- (2) DISCONNECT POWER FROM EXISTING WALL HEATER. MAKE SAFE FOR REMOVAL. REMOVE EXISTING CONDUIT AND WIRING BACK TO PANEL.
- (3) DISCONNECT POWER FROM FAN. MAKE SAFE FOR REMOVAL. REMOVE EXISTING CONDUIT AND WIRING BACK TO PANEL.
- (4) REMOVE EXISTING LUMINAIRE. RETAIN EXISTING CONDUIT AND WIRING FOR CONNECTION TO NEW WORK.
- (5) REMOVE EXISTING RECEPTACLE. RETAIN EXISTING CONDUIT AND WIRING FOR CONNECTION TO NEW WORK.
- (6) REMOVE EXISTING DISCONNECT SWITCH. RETAIN EXISTING CONDUIT AND WIRING FOR CONNECTION TO NEW WORK. POWER SOURCE IS IN ELECTRICAL ROOM UNDER CONTROL OF ANOTHER TENANT.
- (7) REMOVE EXISTING ENCLOSED CIRCUIT BREAKER EQUIPPED WITH SHUNT TRIP MODULE, RETAIN EXISTING CONDUIT AND WIRING FOR CONNECTION TO NEW WORK.
- (8) REMOVE EXISTING SAFETY SWITCH FOR CAR ILLUMINATION. RETAIN EXISTING CONDUIT AND WIRING FOR CONNECTION TO NEW WORK.
- (9) DISCONNECT POWER FROM EMERGENCY BATTERY SUPPLY FOR CAR LOWERING AND ILLUMINATION. MAKE SAFE FOR REMOVAL.
- (10) DISCONNECT POWER FROM EXISTING ELEVATOR HYDRAULIC UNIT. MAKE SAFE FOR REMOVAL.
- (11) REMOVE EXISTING HEAT DETECTOR.
- (12) REMOVE EXISTING LUMINAIRE, ASSOCIATED CONDUIT, AND WIRING.
- (13) REMOVE EXISTING SMOKE DETECTOR.
- (14) REMOVE EXISTING EMERGENCY BATTERY UNIT.
- (15) DISCONNECT POWER FROM MOTORIZED LOUVERS. MAKE SAFE FOR REMOVAL.
- (16) REMOVE EXISTING HEAT DETECTOR. RETAIN CONDUIT AND WIRING FOR CONNECTION TO NEW HEAT DETCTOR.





1/2" = 1' -

### Construction/Installation subject to inspection by Fire Marshal. Schedule all fire inspections by visiting: www.rockvillemd.gov/fireinspecti







4 ELEVATOR PIT - ELECTRICAL - NEW WORK

## 3 ELEVATOR MACHINE ROOM ROOF - ELECTRICAL - NEW WORK

| LUMINAIRE SCHEDULE |                     |  |                         |  |      |     |      |      |                 |          |                 |                  |                   |         |       |                              |
|--------------------|---------------------|--|-------------------------|--|------|-----|------|------|-----------------|----------|-----------------|------------------|-------------------|---------|-------|------------------------------|
|                    |                     |  |                         |  |      |     | L    | _AMP |                 |          | DR              | DRIVER / BALLAST |                   |         |       |                              |
| TYPE               | MOUNTING            | LUMINAIRE DESCRIPTION                      | PTION MANUFACTURER CATA |  | TYPE | CRI | ССТ  | QTY  | WATTS /<br>LAMP | LUMENS / | TYPE            | QTY              | BALLAST<br>FACTOR | VOLTAGE | WATTS | NOTES                        |
| А                  | SURFACE-<br>CEILING | FULLY ENCLOSED GASKETED INDUSTRIAL LED     | HE WILLIAMS             | 96-4-L40/835-HIAFR-WET/1-DRV-UNV               | LED  | 80  | 4000 | 1    | 30              | 4086     | NON-<br>DIMMING | 1                | -                 | 120     | 30    | 1, 2, 3                      |
| В                  | SURFACE-<br>WALL    | FULLY ENCLOSED GASKETED INDUSTRIAL LED     | HE WILLIAMS             | 96-4-L40/835-HIAFR-(L20)-WET/1-WMB-<br>DRV-UNV | LED  | 80  | 4000 | 1    | 30              | 2043     | NON-<br>DIMMING | 1                | -                 | 120     | 30    | 1, 2, 3                      |
| D                  | RECESSED            | 4" ROUND DOWNLIGHT                         | HE WILLIAMS             | 4AR-L10/840-DIM-UNV-LW-OF-CS-WET/CC-<br>R      | LED  | 80  | 4000 | 1    | 49              | 915      | NON-<br>DIMMING | 1                | -                 | 120     | 49    | 1, 2, 3                      |
| E                  | SURFACE-<br>WALL    | ARCHITECTURAL 4" CYLINDER                  | PATHWAY                 | C73W304WL9DUBWL                                | LED  | 80  | 4000 | 1    | 22.8            | 2753     | NON-<br>DIMMING | 1                | -                 | 120     | 22.8  | 1, 2, 3                      |
| EBU                | WALL                | EMERGENCY BATTERY UNIT                     | HE WILLIAMS             | EMER/W-GRAY-D                                  | LED  | -   | -    | 1    | 1.875           | -        | NON-<br>DIMMING | 1                |                   | 120     | 3.7   | 1, 2, 3                      |
| F                  | PENDANT             | LUMENBEAM RGBW COLOR CHANGING PENDANT      | LUMENPULSE              | LBGP-120-RGBW40K-FL-FL-ACAN-12-BK-<br>LT-UL-BK | LED  | 80  | 4000 | 1    | 100             | 4059     | DMX/RDM         | 1                | -                 | 120     | 100   | 1, 2, 3, 4, 5                |
| G                  | SURFACE             | SURFACE MOUNT STANDARD OPTIC<br>ASYMMETRIC | ALUZ                    | A1-ZAKY-SOP-ASM-3W-10V-40K-WET-NA-<br>X'X"     | LED  | 90  | 4000 | 1    | 12              | 1296     | NON-<br>DIMMING | 1                | -                 | 120     | 12    | 1, 2, 3, 4, 5, 6,<br>7, 8, 9 |

NOTES: (APPLICABLE TO LUMINAIRE SCHEDULE ONLY)

1. CATALOG NUMBERS FOR LUMINAIRES INDICATE THE TYPE AND QUALITY OF THE LUMINAIRE TO BE PROVIDED BY THE CONTRACTOR AND ARE GENERAL IN NATURE. THE CATALOG NUMBERS ARE NOT INTENDED TO INDICATE AN ACTUAL ORDER MODEL NUMBER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE LUMINAIRES WITH THE TYPE OF LAMP, BALLAST, LENS OR DIFFUSER, AND CONSTRUCTION FEATURES AS INDICATED IN THE SPECIFICATIONS.

2. COORDINATE CONTROL COMPATIBILITY BETWEEN BALLAST/DRIVER TYPES FOR ALL DIMMED AND COLOR CHANGING LUMINAIRES WITH MANUFACTURER AND MODEL OF DIMMING CONTROL DEVICES.

3. ALL MOUNTING HEIGHTS SHALL BE AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE ARCHITECT OR ENGINEER. MOUNTING HEIGHTS OF WALL MOUNTED LUMINAIRES SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE LUMINAIRE. MOUNTING HEIGHTS OF CEILING SUSPENDED LUMINAIRES SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE BOTTOM OF THE LUMINAIRE.

4. EQUIPPED WITH ADJUSTABLE LINEAR SPREAD LENS (LSLA), LUMENTALK CONTROL INTERFACE, BLACK POWER/CONTROL CABLE.

5. EQUIPPED WITH PHAROS CONTROLLER/INTERFACE

6. PROVIDE LUMINAIRES IN LENGTHS CORRESPONDING TO LENGTH OF EACH RAMP SECTION ASSEMBLY. INSTALL LUMINAIRES HORIZONTALLY ON RAMP UNDER HANDRAIL OR ON BALUSTERS, AIMING LIGHT DISTRIBUTION ON THE HORIZONTAL SURFACE OF THE RAMP.

7. PROVIDE MOUNTING CLIPS AND CONNECTORS LISTED FOR WET LOCATIONS WHICH ARE COMPATIBLE WITH THE LUMINAIRES AND ARE FROM THE SAME MANUFACTURER AS THE LUMINAIRES AS REQUIRED.

8. PROVIDE NON-DIMMING DRIVERS WHICH ARE COMPATIBLE WITH THE LUMINAIRES AND ARE RATED FOR CONNECTED LOAD FROM SAME MANUFACTURER AS THE LUMINAIRES AS REQUIRED.

9. PROVIDE PHOTOCELL AND TIME CLOCK FOR CONTROL.

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

- 1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (-------) INDICATE NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT ( ------ ) INDICATE EXISTING ITEMS TO REMAIN.
- 2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.
- 3. PROVIDE POWER SYSTEM REPORT INCLUDING SHORT CIRCUIT, SELECTIVE COORDINATION, AND ARC FLASH FOR THE PORTION OF THE POWER DISTRIBUTION SYSTEM THAT IS AFFECTED BY THE PROJECT.

SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

(1) PROVIDE FINAL CONNECTION TO ELEVATOR CONTROLLER. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR. (2) DS-ELEV FUSED SAFETY SWITCH WITH SHUNT TRIP MODULE FOR ELEVATOR MAIN LINE DISCONNECT.

- FIELD COORDINATE SIZE OF FUSED SWITCH AND FUSES WITH ELEVATOR MANUFACTURER'S PUBLISHED CURRENT CHARACTERISTICS INDICATED ON CONFIRMATION OF POWER SUPPLY FORM WHICH WILL BE FURNISHED WITH ELEVATOR SHOP DRAWINGS.
- (3) HEAT DETECTOR FOR ELEVATOR RECALL.
- (4) DS-ELEV CAR LTG LOCKABLE SAFETY SWITCH FOR ELEVATOR CAR LIGHTS, CAR TOP RECEPTACLE, AUXILIARY LIGHTING SOURCE, AND CAR VENTILATION. PROVIDE SWITCH CAPABLE OF BEING LOCKED IN OPEN POSITION ONLY.
- (5) PROVIDE FINAL CONNECTION TO ELEVATOR HYDRAULIC UNIT. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR.
- (6) MOUNT 48" ABOVE STREET LEVEL ADJACENT TO DOOR. COORDINATE EXACT LOCATION WITH ELEVATOR CONSULTANT.
- (7) MOUNT 48" ABOVE ELEVATOR PIT FLOOR. FOR DEVICES IN HOISTWAY.
- (8) COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES IN THIS ROOM WITH ELEVATOR CONTRACTOR. PROVIDE FIRE ALARM SYSTEM CONTROL RELAYS TO PROVIDE THE FOLLOWING OUTPUTS TO THE
- ELEVATOR CONTROLLER:
- A. DESIGNATED LEVEL RECALL B. ALTERNATE LEVEL RECALL
- C. ELEVATOR MACHINE ROOM FIRE ALARM INITIATING DEVICE
- (10) PROVIDE LUMINAIRE AT ELEVATOR DOOR TO ILLUMINATE THE LANDING. CONNECT TO NEAREST EXISTING LIGHTING CIRCUIT.
- 11) PROVIDE FINAL CONNECTION OF EXISTING POTS LINE CONDUCTORS TO NEW ELEVATOR CONTROLLER.
- COLOR CONTROLLER AND INTERFACE FOR LUMINAIRE AT TOP OF HOIST WAY.
- 3) HEAT DETECTOR FOR ELEVATOR SHUNT TRIP.
- (14) PROVIDE FINAL CONNECTION TO EMERGENCY BATTERY UNIT. (15) PROVIDE LUMINAIRE AT TOP OF HOIST WAY. CONNECT TO COLOR CONTROLLER AND TO NEAREST
- EXISTING LIGHTING CIRCUIT. (16) EMERGENCY BATTERY SUPPLY FOR CAR LOWERING AND ILLUMINATION. CONNECT TO EXISTING
- CONDUCTORS.
- (17) MOUNT LUMINAIRE VERTICALLY.



## 4 ELEVATOR HOISTWAY + PROMENADE LEVEL - ELECTRICAL - NEW WORK







1 MONROE STREET & PLAZA LEVEL RAMP - LIGHTING - NEW WORK



DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

- EXISTING ITEMS TO REMAIN.
- 2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.
- 3. PROVIDE POWER SYSTEM REPORT INCLUDING SHORT CIRCUIT, SELECTIVE COORDINATION, AND ARC FLASH FOR THE PORTION OF THE POWER DISTRIBUTION SYSTEM THAT IS AFFECTED BY THE PROJECT.

SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

1 NEMA 4X BOX



1/4" = 1' -



|       |            |      |                       |         |           |                   | SPL        | IT SYS <sup>-</sup> | TEM AI     | R CONDITIONE | RS                 |            |            |      |                   |                  |         |
|-------|------------|------|-----------------------|---------|-----------|-------------------|------------|---------------------|------------|--------------|--------------------|------------|------------|------|-------------------|------------------|---------|
|       | CONDENSING |      |                       | NOM FAN |           | IN                |            |                     | Y (NOTE 2  |              | HEA                | TING       | ELECTRICAL |      | BASIS OF          |                  |         |
| UNIT  | UNIT       | TYPE | SERVICE               | CFM     | TOTAL     | EAT               | EAT        |                     | LAT        | MAX EAT      | TOTAL              | EAT        | V/PH       | MCA  | INDOOR UNIT       | CONDENSING UNIT  | - NOTES |
| ACU-1 | ACCU-1     | А    | ELEVATOR MACHINE ROOM | 650     | MBH<br>24 | <b>(DB)</b><br>90 | (WB)<br>67 | (DB)<br>80          | (WB)<br>67 | 115          | <u>МВН</u><br>16.4 | (DB)<br>80 | 208/1      | 17.5 | DAIKIN FTXS24LVJU | DAIKIN RXS24LVJU | 1       |

NOTES FOR SPLIT SYSTEM AIR CONDITIONERS: 1. INDOOR UNIT SHALL BE INTERLOCKED TO ASSOCIATED CONDENSING UNIT. 2. R-410A REFRIGERANT.

## DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- EXISTING SHOWN WITH LIGHT WEIGHT LINE,
- DEMOLITION SHOWN WITH HEAVY WEIGHT, DASHED LINE, ------NEW WORK SHOWN WITH HEAVY WEIGHT LINE,
- INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. EXISTING CONDITIONS ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, OR THERE IS A QUESTION REGARDING SCOPE OF WORK OR LIMITS OF DISTURBANCE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COR IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.
- ALL ITEMS THAT REQUIRE ACCESS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS, STRAINERS, TRANSMITTERS, AND CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DRAWINGS TO THE OWNER FOR RESOLUTION.

![](_page_11_Figure_7.jpeg)

# 1 ELEVATOR MACHINE ROOM - MECHANICAL - DEMOLITION

![](_page_11_Figure_9.jpeg)

2 ELEVATOR MACHINE ROOM - MECHANICAL - NEW WORK

![](_page_11_Picture_11.jpeg)

![](_page_11_Figure_12.jpeg)

3 ELEVATOR MACHINE ROOM ROOF - MECHANICAL - NEW WORK

![](_page_11_Picture_14.jpeg)

![](_page_11_Figure_15.jpeg)

REVIEWED PLAN PLEASE READ ALL PLAN REVIEW COMMENTS

| Henry Adams<br>Consulting Engineers<br>Mechanical Electrical & Plumbing Engineers<br>ay Plan  |
|---|
| SCALE: X'-X"  |
| o. Revision Date Toject Name ROCKVILLE ELEVATOR MODERNIZATION   |
| ADDECATE ANDECATE AND ANDECATE AND ANDECATE AND ANDECATE AND   |
| Phase<br>100% SUBMISSION<br>Project No.<br>0507210339<br>Professional CERTIFICATION<br>HEREPARED or APPROVED BY ME. AND<br>THAT IAMA DULY LICENSE DYNOFESSIONAL<br>EXAMPLE AND DYNOFESSIONAL |
| rawing No.<br>M-001   |