1 ADDENDUM #3 3.30.23

**ANUS** 

MAT,

 $\Box$ 

2022.091.0

DATE 02.10.2023 DRAWN MJM REVIEWED TCA

SHEET NAME UTILITY RISER DIAGRAMS

E5.01

| TYPICAL UNIT A & UNIT E PANEL |        | VOLTAGE : | , ,  |               |                    |                              | 125 A                         |                                 |           |     |     |
|-------------------------------|--------|-----------|--|---------------|--------------------|------------------------------|-------------------------------|---------------------------------|-----------|-----|-----|
|                               |        |           |  |               |                    | MAIN CIRCUIT BREAKER RATING: | MLO                           |                                 |           |     |     |
|                               |        |           | SUPPLIED FROM: U                           |               | UTILITY DISCONNECT |                              | SHORT CIRCUIT CURRENT RATING: | 10,000 A                        |           |     |     |
| CKT<br>AMP<br>POLE            |        | POLE      | LOAD DESCRIPTION                           | PHASE A<br>VA |                    | PHASE B<br>VA                |                               | LOAD DESCRIPTION                | POLE      | AMP | CKT |
| 1                             | 20     | 1         | REC - KITCHEN REF, ABOVE COUNTER           | 1,500         | 4,550              |                              |                               | DANIOE                          |           | 50  | 2   |
| 3                             | 20     | 1         | REC - KITCHEN ABOVE COUNTER, DINING        |               |                    | 1,500                        | 4,550                         | RANGE                           | 2         |     | 4   |
| 5                             | 20     | 1         | REC - DISHWASHER                           | 1,080         | 360                | I                            |                               | REC/FAN - POWDER ROOM           | 1         | 20  | 6   |
| 7                             | 20     | 1         | REC - CLOTHES WASHER                       |               |                    | 1,440                        | 200                           | REC/FAN - BATHROOM 1            | 1         | 20  | 8   |
| 9                             | 30     |           | DEC. CLOTHEC DRVED                         | 2,800         | 1,080              |                              |                               | REC - 3RD LEVEL HALL, BEDROOM 1 | 1         | 20  | 10  |
| 11                            |        | 2         | REC - CLOTHES DRYER                        |               |                    | 2,800                        | 720                           | REC - BEDROOM 2                 | 1         | 20  | 12  |
| 13                            | 20     | 1         | REC - HEAD BOLT HEATER                     | 600           |                    | <u>'</u>                     |                               | SPARE                           | 1         | 20  | 14  |
| 15                            | 20     | 1         | REC - GARAGE, GARAGE DOOR OPENER, SM PANEL |               |                    | 1,200                        |                               | SPACE                           | 1         | -   | 16  |
| 17                            | 20     | 1         | REC - HALL, LIVING ROOM                    | 900           |                    | '                            |                               | SPACE                           | 1         | -   | 18  |
| 19                            | 20     | 1         | SMOKE/CO DETECTORS                         |               |                    | 30                           |                               | SPACE                           | 1         | -   | 20  |
| 21                            | 20     | 1         | RANGE HOOD                                 | 216           |                    |                              |                               | SPACE                           | 1         | -   | 22  |
| 23                            | 20     | 1         | LIGHTING                                   |               |                    | 490                          |                               | SPACE                           | 1         | -   | 24  |
| 25                            | 20     | 1         | BOILER SYSTEM                              | 600           |                    |                              |                               | SPACE                           | 1         | -   | 26  |
| 27                            | 20     | 1         | HEAT TRACE                                 |               |                    | 50                           |                               | SPACE                           | 1         | -   | 28  |
| 29                            | -      | 1         | SPACE                                      |               |                    |                              |                               | SPACE                           | 1         | -   | 30  |
| 31                            | -      | 1         | SPACE                                      |               |                    |                              |                               | SPACE                           | 1         | -   | 32  |
| 33                            | -      | 1         | SPACE                                      |               |                    |                              |                               | SPACE                           | 1         | -   | 34  |
| 35                            | -      | 1         | SPACE                                      |               |                    |                              |                               | SPACE                           | 1         | -   | 36  |
| 37                            | -      | 1         | SPACE                                      |               |                    |                              |                               | SPACE                           | 1         | -   | 38  |
| 39                            | -      | 1         | SPACE                                      |               |                    |                              |                               | SPACE                           | 1         | -   | 40  |
| 41                            | -      | 1         | SPACE                                      |               |                    |                              |                               | SPACE                           | 1         | -   | 42  |
|                               |        |           | AD (VA)                                    |               | 13,686             |                              | 12,980                        |                                 | 26,666 VA |     |     |
|                               |        |           | AD (AMPERES)                               |               | 114                |                              | 108                           |                                 | 111 A     |     |     |
| DEMAND LOAD (VA)              |        |           |  | 13,686 13,103 |                    |                              | 26,789 VA                     |                                 |           |     |     |
| ΞM.                           | AND LO | DAD (/    | AMPERES)                                   |               | 114                |                              | 109                           |                                 | 112 A     |     |     |

|                          |     |             |  |                    |        |                               | V,1PH,3W | AMPERE RATING:                | 125 A     |     |      |
|--------------------------|-----|-------------|--|--------------------|--------|-------------------------------|----------|-------------------------------|-----------|-----|------|
|                          |     | <b>T</b> \  | PICAL UNIT B & UNIT D PANEL            | MOUNTING:          |        | RECESSED                      |          | MAIN CIRCUIT BREAKER RATING:  | MLO       |     |      |
|                          |     | SUPPLIED FF | ROM:                                   | UTILITY DISCONNECT |        | SHORT CIRCUIT CURRENT RATING: | 10,000 A |                               |           |     |      |
| CKT                      | AMP | POLE        | LOAD DESCRIPTION                       | PHASE<br>VA        | A      | PHAS<br>VA                    |          | LOAD DESCRIPTION              | POLE      | AMP | - KT |
| 1                        | 20  |             | REC - KITCHEN REF, ABOVE COUNTER       | 1,500              | 4,550  |                               |          | DANIOS                        |           | 50  | 2    |
| 3                        | 20  | 1           | REC - KITCHEN ABOVE COUNTER, DINING    |                    |        | 1,500                         | 4,550    | RANGE                         | 2         |     |      |
| 5                        | 20  | 1           | REC - DISHWASHER                       | 1,200              | 560    | l .                           |          | REC/FAN/HEAT - POWDER ROOM    | 1         | 20  | 1    |
| 7                        | 20  | 1           | REC - CLOTHES WASHER                   | 1                  |        | 1,500                         | 420      | REC/FANHEAT - BATHROOM 1      | 1         | 20  | 1    |
| 9                        | 30  |             | REC - CLOTHES DRYER                    | 2,800              | 1,260  | 1                             |          | REC - 2ND LEVEL HALL, BEDROOM | 1         | 20  | 1    |
| 11                       |     | 2           | -REG - GLOTHES DRIER                   |                    |        | 2,800                         |          | SPARE                         | 1         | 20  | 1    |
| 13                       | 20  | 1           | REC - HEAD BOLT HEATER                 | 600                |        | 1                             |          | SPACE                         | 1         | -   | 1    |
| 15                       | 20  | 1           | REC/HEAT - GARAGE, GARAGE DOOR OPENER  |                    |        | 1,220                         |          | SPACE                         | 1         | -   | 1    |
| 17                       | 20  | 1           | REC/HEAT - HALL, LIVING ROOM, SM PANEL | 1,460              |        |                               |          | SPACE                         | 1         | -   | 1    |
| 19                       | 20  | 1           | SMOKE/CO DETECTORS                     |                    |        | 30                            |          | SPACE                         | 1         | -   | 2    |
| 21                       | 20  | 1           | RANGE HOOD                             | 216                |        | ·                             |          | SPACE                         | 1         | -   | 2    |
| 23                       | 20  | 1           | LIGHTING                               |                    |        | 548                           |          | SPACE                         | 1         | -   | 2    |
| 25                       | 20  | 1           | BOILER SYSTEM & PUMP                   | 600                |        |                               |          | SPACE                         | 1         | -   | 2    |
| 27                       | -   | 1           | SPACE                                  |                    |        |                               |          | SPACE                         | 1         | -   | 2    |
| 29                       | -   | 1           | SPACE                                  |                    |        |                               |          | SPACE                         | 1         | -   | 3    |
| 31                       | -   | 1           | SPACE                                  |                    |        |                               |          | SPACE                         | 1         | -   | 3    |
| 33                       | -   | 1           | SPACE                                  |                    |        |                               |          | SPACE                         | 1         | -   | 3    |
| 35                       | -   | 1           | SPACE                                  |                    |        |                               |          | SPACE                         | 1         | -   | 3    |
| 37                       | -   | 1           | SPACE                                  |                    |        |                               |          | SPACE                         | 1         | -   | 3    |
| 39                       | -   | 1           | SPACE                                  |                    |        |                               |          | SPACE                         | 1         | -   | 4    |
| 41                       | -   | 1           | SPACE                                  |                    |        |                               |          | SPACE                         | 1         | -   | 4    |
| CONNECTED LOAD (VA)      |     |             |  |                    |        | 12,568                        |          | 27,314 VA                     |           |     |      |
| CONNECTED LOAD (AMPERES) |     |             |  |                    |        | 105                           |          | 114 A                         |           |     |      |
| DEMAND LOAD (VA)         |     |             |  |                    | 14,746 |                               | 12,705   |                               | 27,451 VA |     |      |
| DEMAND LOAD (AMPERES)    |     |             |  |                    | 123    |                               | 106      |                               | 114 A     |     |      |

A - PROVIDE ARC-FAULT TYPE CIRCUIT BREAKERS, G - PROVIDE GFCI TYPE CIRCUIT BREAKER, GP - PROVIDE CLASS A GFI TYPE CIRCUIT BREAKER (5mA), L - PROVIDE CIRCUIT BREAKER LOCK

|   | VOLTAGE :      | 120/240V,1PH,3W    | AMPERE RATING: 125 A             |           |     |    |  |  |
|---|----------------|--------------------|----------------------------------|-----------|-----|----|--|--|
| TYPICAL UNIT C                                | MOUNTING:      | SURFACE            | MAIN CIRCUIT BREAKER RATING: MLO |           |     |    |  |  |
|   | SUPPLIED FROM: | UTILITY DISCONNECT | SHORT CIRCUIT CURRENT RATING:    | 10,000 A  | 0 A |    |  |  |
| LOAD DESCRIPTION                              | PHASE A<br>VA  | PHASE B<br>VA      | LOAD DESCRIPTION                 | POLE      | AMP | Ϋ́ |  |  |
| 1 20 1 REC - KITCHEN REF, ABOVE COUNTER       | 1,500 4,550    |                    | RANGE                            |           | 50  | 2  |  |  |
| 3 20 1 REC - KITCHEN ABOVE COUNTER, DINING    |                | 1,500 4,550        | RANGE                            | 2         |     | 4  |  |  |
| 5 20 1 REC - DISHWASHER                       | 1,200 560      | '                  | REC/FAN/HEAT - BATHROOM 1        | 1         | 20  | 6  |  |  |
| 7 20 1 REC - CLOTHES WASHER                   |                | 1,500 900          | REC - BEDROOM 1                  | 1         | 20  | 8  |  |  |
| 9 30 REC - CLOTHES DRYER                      | 2,800          | <u>'</u>           | SPARE                            | 1         | 20  | 10 |  |  |
| 11 2 REC - CLOTHES DRYER                      |                | 2,800              | SPACE                            | 1         | -   | 12 |  |  |
| 13 20 1 REC - HEAD BOLT HEATER                | 600            |                    | SPACE                            | 1         | -   | 14 |  |  |
| 15 20 1 REC/HEAT - GARAGE, GARAGE DOOR OPENER |                | 1,220              | SPACE                            | 1         | -   | 10 |  |  |
| 17 20 1 REC/HEAT - HALL, LIVING ROOM          | 1,460          | •                  | SPACE                            | 1         | -   | 18 |  |  |
| 19 20 1 SMOKE/CO DETECTORS                    |                | 30                 | SPACE                            | 1         | -   | 20 |  |  |
| 21 20 1 RANGE HOOD                            | 216            |                    | SPACE                            | 1         | -   | 22 |  |  |
| 23 20 1 LIGHTING                              |                |                    | SPACE                            | 1         | -   | 24 |  |  |
| 25 20 1 BOILER SYSTEM                         | 600            |                    | SPACE                            | 1         | -   | 26 |  |  |
| 27 - 1 SPACE                                  |                |                    | SPACE                            | 1         | -   | 28 |  |  |
| 29 - 1 SPACE                                  |                |                    | SPACE                            | 1         | -   | 30 |  |  |
| 31 - 1 SPACE                                  |                |                    | SPACE                            | 1         | -   | 32 |  |  |
| 33 - 1 SPACE                                  |                |                    | SPACE                            | 1         | -   | 34 |  |  |
| 35 - 1 SPACE                                  |                |                    | SPACE                            | 1         |     | 36 |  |  |
| 37 - 1 SPACE                                  |                |                    | SPACE                            | 1         |     | 38 |  |  |
| 39 - 1 SPACE                                  |                |                    | SPACE                            | 1         | -   | 40 |  |  |
| 41 - 1 SPACE                                  |                |                    | SPACE                            | 1         |     | 42 |  |  |
| CONNECTED LOAD (VA) 13,4                      |                | 12,500             |                                  | 25,986 VA |     |    |  |  |
| CONNECTED LOAD (AMPERES)                      | 112            | 104                |                                  | 108 A     |     |    |  |  |
| EMAND LOAD (VA)                               | 13,486 12,5    |                    | 0 25,986 VA                      |           |     |    |  |  |

A - PROVIDE ARC-FAULT TYPE CIRCUIT BREAKERS, G - PROVIDE GFCI TYPE CIRCUIT BREAKER, L - PROVIDE CIRCUIT BREAKER LOCK

#### TENANT TV OUTLET TENANT VOICE/DATA OUTLET NOTE: TENANT CONNECTIONS SHALL BE CAT 6 CABLING TO TO EACH OUTLET FROM "FIBER" INCOMING - EXTERIOR UTILITY BOX UTILITIES **DETAIL NOTES** PROVIDE COMPLETE CABLING, CONNECTIONS AND LABELING IN COMPLIANCE WITH EIA/TAI RECOMMENDATIONS FOR RESIDENTIAL INSTALLATIONS AND IN COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. PROVIDE ESSEX W32002xxBB - 2 STRAND FIBER CABLE FROM UTILITY TO EACH UNIT

— FIBER BACKBONE IN (2)

- RG-6 COAX CABLE

FEEDER SCHEDULE COPPER CONDUCTORS FEEDER TAG CONDUCTORS RACEWAY NOTES 3#8, 1#10 EGC 3#1, 1#6 EGC 1.25" UTIL CONDUIT ONLY

# STRUCTURED MEDIA PANEL DETAIL

"DEMARC" OUTLET. COORDINATE DEMARC LOCATION WITH CIHA PRIOR TO ROUGH-IN.

PROVIDE 2 GANG BOX WITH FIBER OUTLET AND 4 CAT 6 OUTLETS. FROM UNIT DEMARC

OUTLET PROVIDE CAT 6 CABLING FROM JACK TO OTHER OUTLETS IN THE UNIT.

MULTI-METER SERVICE EQUIPMENT 200A, 120/240V,1Ø,3W, NEMA 3R,

MULTI-METER SERVICE EQUIPMENT 400A, 120/240V,1Ø,3W, NEMA 3R,

SCALE: NTS

METER RATINGS AS SHOW SCCR: 10 kA PANEL UNIT 1 -(125A)-125A UNIT 4

## **GENERAL NOTES**

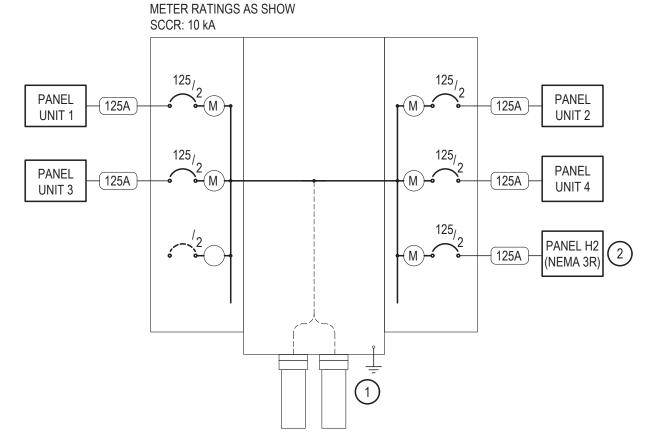
- IMMEDIATELY UPON PROJECT INCEPTION THE CONTRACTOR SHALL COORDINATE WITH UTILITY FOR THE INSTALLATION OF A NEW ELECTRICAL SERVICE. EQUIPMENT LAYOUT AS SHOWN IS DIAGRAMMATIC. THE CONTRACTOR SHALL SUBMIT DETAILED INFORMATION REGARDING THE PROPOSED SERVICE ENTRANCE EQUIPMENT TO THE UTILITY COMPANY AND OWNER/ARCHITECT FOR APPROVAL PRIOR TO ORDERING ANY EQUIPMENT. ALL EQUIPMENT AND INSTALLATION SHALL COMPLY WITH CHUGACH STANDARDS AND THE LATEST ADOPTED NEC.
- METERS AND DISCONNECTS SHALL BE LABELED WITH ENGRAVED PLACARDS, IDENTIFYING EACH TENANT WITH THE ADDRESS OR OTHER MEANS AND BUSSED TERMINATION ENCLOSURES SHALL HAVE PROVISIONS TO BE SEALED. EXTERIOR EQUIPMENT WILL BE PROVIDED IN NEMA 3R ENCLOSURES.
- 3. EXPOSED FLEXIBLE CONDUIT IS NOT ALLOWED.
- 4. REFERENCE SITE ELECTRICAL PLAN FOR BUILDING DESIGNATIONS.

### **SHEET NOTES**

INDICATED BY: (#)

1. PROVIDE GROUNDING ELECTRODE SYSTEM AS FOLLOW: #2 CU. TO WATER MAIN, #2 CU. TO BUILDING STEEL, 20' OF #2 CU. ENCASED IN FOOTING CONCRETE AND BONDED TO REBAR. AND #4 CU. TO DRIVEN ROD ELECTRODE.

UTILITY / METERING GEAR - TYPICAL BUILDINGS '2a', '2b', & '2d' SCALE: NTS



### **GENERAL NOTES**

- IMMEDIATELY UPON PROJECT INCEPTION THE CONTRACTOR SHALL COORDINATE WITH UTILITY FOR THE INSTALLATION OF A NEW ELECTRICAL SERVICE. EQUIPMENT LAYOUT AS SHOWN IS DIAGRAMMATIC. THE CONTRACTOR SHALL SUBMIT DETAILED INFORMATION REGARDING THE PROPOSED SERVICE ENTRANCE EQUIPMENT TO THE UTILITY COMPANY AND OWNER/ARCHITECT FOR APPROVAL PRIOR TO ORDERING ANY EQUIPMENT. ALL EQUIPMENT AND INSTALLATION SHALL COMPLY WITH CHUGACH STANDARDS AND THE LATEST ADOPTED NEC.
- METERS AND DISCONNECTS SHALL BE LABELED WITH ENGRAVED PLACARDS, IDENTIFYING EACH TENANT WITH THE ADDRESS OR OTHER MEANS AND BUSSED TERMINATION ENCLOSURES SHALL HAVE PROVISIONS TO BE SEALED. EXTERIOR EQUIPMENT WILL BE PROVIDED IN NEMA 3R ENCLOSURES.
- 3. EXPOSED FLEXIBLE CONDUIT IS NOT ALLOWED.
- 4. REFERENCE SITE ELECTRICAL PLAN FOR BUILDING DESIGNATIONS.

#### **SHEET NOTES**

INDICATED BY: (#)

1. PROVIDE GROUNDING ELECTRODE SYSTEM AS FOLLOW: #2 CU. TO WATER MAIN, #2 CU. TO BUILDING STEEL, 20' OF #2 CU. ENCASED IN FOOTING CONCRETE AND BONDED TO REBAR. AND #4 CU. TO DRIVEN ROD ELECTRODE..

2. SEE 1/E5.02 FOR PV SYSTEM DETAILS.

UTILITY / METERING GEAR - BUILDING '2c' SCALE: NTS