



Architect's Supplemental Instructions (ASI) 008 Bulletin

Issue Date: May 31st, 2024

Project: Arvada/Ralston Creek

Project No.: 190784.00

Owner: Morgan Group

To: Mike Kerschen
3300 E. 1st Ave, Suite 480
Denver, CO 80206

The following Architect's ASI includes revisions to the scope of work shown in the latest contract documents. While every effort was made to itemize every revision in this release there is a possibility that some items are not fully described or identified. Each sub-contractor should carefully review this set of drawings. If the information provided requires a change in Contract Sum or Contract Time please provide supplemental information to back up the change to the owner. This ASI Bulletin is neither a direction to proceed with work, make a change nor change the contract amount or time. Proceeding with the Work in accordance with these instructions without providing additional information to the owner and the architect indicates that there will be no change in the Contract Sum or Contract Time. Only the Owner may authorize changes to work or a change in contract cost.

Description of The Work:

The Sheets listed below reflect revisions to the Buildings 2 & 4, Sub-Metering. JSE revised electrical riser diagrams to meet field conditions and Ownership requirements. These revisions are captured in the sheet below. Revisions are clouded with Delta 34.

Attachments:

The following drawings and documents are included as part of this ASI:

E0-06C RISER DIAGRAMS: Sub-Metering to be installed by 3rd party and not construction team.

END OF ASI #008



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KTGY Project No: 2019-0784

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Developer

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RALSTON CREEK
ARVADA, CO

| No | Date | Description |
|----------|----------|-------------|
| 07/29/22 | IFC SET | |
| 4 | 01/03/23 | RFI CON-73 |
| 34 | 05/29/24 | ASI #008 |

It is the client's responsibility prior to or during construction to notify the architect in writing of any perceived errors or omissions in the plans and specifications of which a contractor throughly knowledgeable with the building codes and methods of construction should reasonably be aware. Written instructions addressing such perceived errors or omissions shall be received from the architect prior to the client or client's subcontractors proceeding with the work. The client will be responsible for any defects in construction if these procedures are not followed.



RISER DIAGRAMS

E0-06C

| DESIGNATION | EQUIPMENT SERVED | FEEDER / SERVICE DESCRIPTION | CONDUCTOR SIZE | | CONDUCTOR SIZE | | EQUIPMENT GROUND | CONDUIT DIAMETER (IN) | VOLTAGE DROP % | CALC. FAULT VALUE |
|-------------|---------------------|------------------------------|---------------------------|--------------------|-----------------|-------------------|------------------|-----------------------|----------------|-------------------|
| | | | CONDUCTOR AMPACITY (AMPS) | COPPER OR ALUMINUM | PHASE CONDUCTOR | NEUTRAL CONDUCTOR | | | | |
| S 0 02 | MSA-2 | 2000 | AL | 6 sets | 3 # 600 | 1 # 600 | - | 4 | 1.02% | 38,029 |
| S 0 05 | CT2-RW1 | 1000 | AL | 4 sets | 3 # 350 | 1 # 350 | - | 3 | 1.48% | 27,848 |
| S 0 06 | CT4-RW1 | 1600 | AL | 6 sets | 3 # 400 | 1 # 400 | - | 4 | 2.98% | 28,929 |
| F 0 37 | DP-B2-1 | 810 | AL | 3 sets | 3 # 400 | 1 # 400 | 1 # 30 | 4 | 0.31% | 32,832 |
| F 0 38 | DP-B2-3 | 810 | AL | 3 sets | 3 # 400 | 1 # 400 | 1 # 30 | 4 | 0.18% | 28,207 |
| F 0 39 | B2-L1 | 620 | AL | 2 sets | 3 # 500 | 1 # 500 | 1 # 20 | 4 | 0.25% | 31,402 |
| F 0 40 | B2-L3 | 620 | AL | 2 sets | 3 # 500 | 1 # 500 | 1 # 20 | 4 | 0.18% | 28,971 |
| F 0 41 | B2-L4 | 410 | AL | 2 sets | 3 # 250 | 1 # 250 | 1 # 1 | 3 | 0.11% | 31,799 |
| F 0 42 | ELEV#4 FUSE DISC | 70 | CU | 1 set | 3 # 4 | - | 1 # 10 | 1 1/4 | 0.63% | 6,589 |
| F 0 43 | ELEV#4 NONFUSE DISC | 70 | CU | 1 set | 3 # 4 | 1 # 4 | 1 # 10 | 1 1/4 | 0.29% | 4,843 |
| F 0 44 | ELEV#4 | 70 | CU | 1 set | 3 # 4 | 1 # 4 | 1 # 10 | 1 1/4 | 0.17% | 4,179 |
| S 0 45 | B2-RW1 | 1000 | AL | 4 sets | 3 # 350 | 1 # 350 | 1 # 40 | 3 | 0.19% | 28,367 |
| F 0 57 | B2-L1-1 | 410 | AL | 2 sets | 3 # 250 | 1 # 250 | 1 # 1 | 3 | 0.57% | 22,131 |
| F 0 58 | B4-L1 | 230 | AL | 1 set | 3 # 300 | 1 # 300 | 1 # 2 | 3 | 0.12% | 24,659 |

KEY: "CU" - COPPER "AL" - ALUMINUM
NOTES: COPPER OR ALUMINUM REFERS TO ALL CONDUCTORS (PHASE, NEUTRAL, AND GROUND)

- KEY NOTES - RISER DIAGRAM**
- XCEL TO PROVIDE PRIMARY WIRING, PRIMARY CONDUIT, TRENCHING AND BACKFILL.
 - XCEL TO PROVIDE TRANSFORMER AND TRANSFORMER PAD.
 - CONTRACTOR SHALL PROVIDE ALL SECONDARY WIRING, SECONDARY CONDUIT, SECONDARY TRENCHING AND BACKFILL FROM UTILITY TRANSFORMER OR SECONDARY CONNECTION CABINET (IF REQUIRED). XCEL WILL TERMINATE SECONDARY THAT XCEL WILL PROVIDE FROM THE TRANSFORMER TO THE SECONDARY CONNECTION CABINET (IF REQUIRED). CONTRACTOR SHALL COORDINATE CONDUIT ROUTING, TRENCHING PRIOR TO INSTALLATION WITH XCEL AND AHJ AS REQUIRED. COORDINATE TRENCHING REQUIREMENTS WITH XCEL AND AHJ. THE CITY OF DENVER REQUIRES AND INSPECTION OF ALL TRENCHING AND BACKFILL FOR ALL SECONDARIES THAT THE GC IS RESPONSIBLE FOR.
 - CONTRACTOR SHALL PROVIDE AND INSTALL SECONDARY CONNECTION CABINET AND CABLE TRAY BETWEEN THE SECONDARY CONNECTION CABINET AND TRANSFORMER. COORDINATE WITH XCEL PRIOR TO INSTALLATION.

| AVAILABLE FAULT CURRENT RMS (SYMMETRICAL AMPS AT 120/240V MAX 1-PHASE, 240V MAX 3-PHASE) | SERVICE ENTRANCE MODULES (NOTE 1) | METER MODULE BRANCH CIRCUIT BREAKERS | LOAD CENTER BRANCH CIRCUIT BREAKERS |
|--|--|---|-------------------------------------|
| TO 42,000 | SERIES WB, WB_U, WBM, WBM_U, WBS, WBS_U, WBSM, WBSM_U, WXB, WXB_U, WMLZF | QPH HOP (2 POLE, 15-125A) (NOTE 3) | QP |
| | SERIES WS, U, WES, U, WSS | QPH HOP (2 POLE, 15-125A) (NOTE 3) | QP |
| | SERIES WTB, U, WET, U | HQP (2 POLE, 15-125A) (NOTE 3) | QP |
| TO 65,000 | SERIES WB, WB_U, WBM, WBM_U, WBS, WBS_U, WBSM, WBSM_U, WXB, WXB_U, WMLZF | QPH, HQP, HOPH (2 POLE, 15-125A) (NOTE 3) | QP |
| | SERIES WS, U, WES, U, WSS | QPH, HQP, HOPH (2 POLE, 15-125A) (NOTE 3) | QP |
| | SERIES WTB, U, WET, U | HQP, HOPH (2 POLE, 15-125A) (NOTE 3) | QP |

NOTES:
1. WMLZF IS A FUSED SWITCH (CLASS T-300V) - SERIES RATINGS ARE APPLICABLE TO ALL SWITCHES WITH CLASS T-300V FUSES
3. WML AND WMT 225A, 1-PHASE

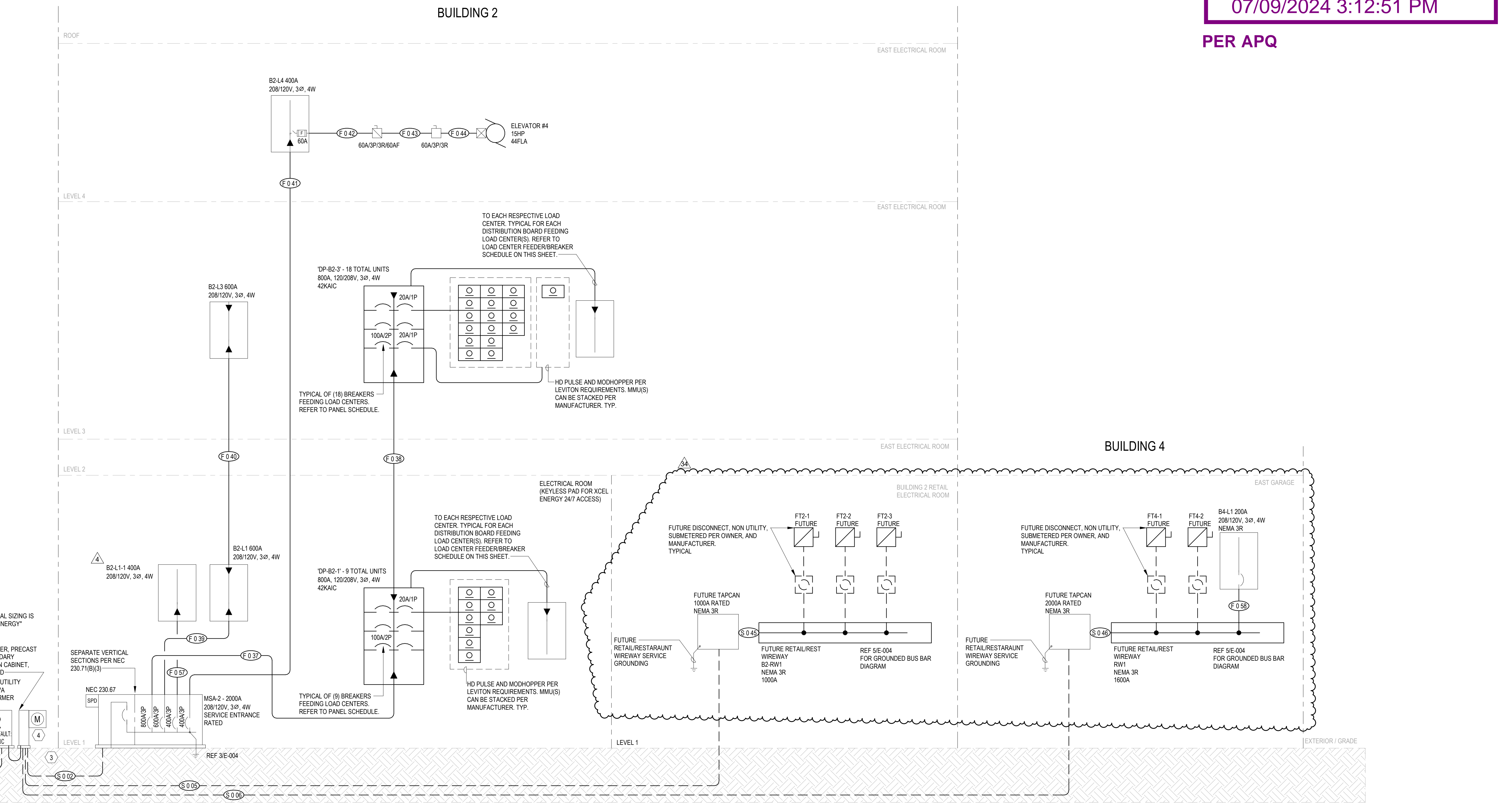
| MAX FEEDER SIZE | PANEL DESIGNATION | FED FROM | STARTING AFC | # OF SETS | FEEDER SIZE | FEEDER TYPE | XFMR KVA | C VALUE | VOLTAGE L-L | PHASES | FEEDER / SERVICE LENGTH | I-VALUE | M VALUE | XFMR I-VALUE | XFMR M VALUE | M CALCULATED FAULT VALUE |
|-----------------|---------------------|---------------------|--------------|-----------|-------------|-------------|----------|---------|-------------|--------|-------------------------|---------|---------|--------------|--------------|--------------------------|
| 750 | MSA-2 | Service | 52,100 | 6 | 600 | AL | - | 23,451 | 208 | 3 | 120 | 0.370 | 0.730 | - | - | 38,029 |
| 750 | CT2-RW1 | Service | 52,100 | 4 | 350 | AL | - | 16,613 | 208 | 3 | 135 | 0.871 | 0.535 | - | - | 27,848 |
| 750 | CT4-RW1 | Service | 52,100 | 6 | 400 | AL | - | 18,506 | 208 | 3 | 205 | 0.801 | 0.555 | - | - | 28,929 |
| 500 | DP-B2-1 | MSA-2 | 38,029 | 3 | 400 | AL | - | 16,671 | 208 | 3 | 25 | 0.158 | 0.963 | - | - | 32,832 |
| 500 | DP-B2-3 | DP-B2-1 | 32,832 | 3 | 400 | AL | - | 16,671 | 208 | 3 | 30 | 0.164 | 0.859 | - | - | 28,207 |
| 500 | B2-L1 | MSA-2 | 38,029 | 2 | 500 | AL | - | 18,756 | 208 | 3 | 25 | 0.211 | 0.826 | - | - | 31,402 |
| 500 | B2-L3 | B2-L1 | 31,402 | 2 | 500 | AL | - | 18,756 | 208 | 3 | 30 | 0.209 | 0.827 | - | - | 25,971 |
| 500 | B2-L4 | MSA-2 | 38,029 | 2 | 250 | AL | - | 12,122 | 208 | 3 | 15 | 0.195 | 0.836 | - | - | 31,799 |
| 500 | ELEV#4 FUSE DISC | B2-L4 | 31,799 | 1 | 4 | CU | - | 3,806 | 208 | 3 | 55 | 3.826 | 0.207 | - | - | 6,589 |
| 500 | ELEV#4 NONFUSE DISC | ELEV#4 FUSE DISC | 6,589 | 1 | 4 | CU | - | 3,806 | 208 | 3 | 25 | 0.360 | 0.735 | - | - | 4,843 |
| 500 | ELEV#4 | ELEV#4 NONFUSE DISC | 4,843 | 1 | 4 | CU | - | 3,806 | 208 | 3 | 15 | 0.159 | 0.963 | - | - | 4,179 |
| 500 | B2-RW1 | CT2-RW1 | 27,848 | 4 | 350 | AL | - | 15,464 | 208 | 3 | 15 | 0.056 | 0.947 | - | - | 28,367 |
| 500 | B4-RW1 | CT4-RW1 | 28,929 | 6 | 400 | AL | - | 16,671 | 208 | 3 | 15 | 0.036 | 0.965 | - | - | 27,920 |
| 500 | B2-L1-1 | MSA-2 | 38,029 | 2 | 250 | AL | - | 12,122 | 208 | 3 | 55 | 0.718 | 0.582 | - | - | 22,131 |
| 500 | B4-L1 | CT4-RW1 | 28,929 | 1 | 300 | AL | - | 13,910 | 208 | 3 | 10 | 0.173 | 0.852 | - | - | 24,659 |

APPROVED REVISED PLAN
07/09/2024 3:12:51 PM

PER APQ

| DWELLING UNIT LOAD AND FEEDER DISTANCE | FEEDER (AL) MC | BREAKER |
|--|----------------|---------|
| 100 AMPS OR LESS LOAD, UP TO 120' | 3#1, 1#6G | 100/2 |
| 100 AMPS OR LESS LOAD, OVER 120', AND UP TO 155' | 3#1/0, 1#4G | 100/2 |
| 100 AMPS OR LESS LOAD, OVER 155' AND UP TO 195' | 3#2/0, 1#4G | 100/2 |

* WHERE CONDUCTOR SIZE EXCEEDS LUG RATING, CONTRACTOR SHALL INCREASE BREAKER/LOAD CENTER RATING, OR INSTALL COPPER PIGTAIL ADAPTOR (ILSCO CPM OR APPROVED EQUAL) ON SCHEDULED FEEDERS, WHERE ALLOWED BY AHJ. WIRE GUTTER SPACE WITHIN EQUIPMENT SHALL BE VERIFIED TO ACCOMMODATE THIS TERMINATION. CONTRACTOR SHALL GIVE NOTIFICATION PRIOR TO PURCHASE OR INSTALLATION OF REQUIRED EQUIPMENT.



1 BUILDING 2&4 - RISER DIAGRAM
Scale: NTS