AXIOMCONSULTANTS
A RUEKERT & MIELKE COMPANY

511 Capitol Building Stabilization Project
IOWA CITY, IOWA
10271-10004

ADDENDUM 02
December 2, 2025

This addendum forms a part of the Contract Documents and modifies the original bidding documents dated November 14, 2025, as noted below.

SEALS:

These Seals Cover All Items included in Addendum 02

Architectural

Mechanical & Plumbing

Electrical & Technology

Structural

CONTRACTOR CLARIFICATIONS:

1. Background checks and fee.
   A: Per Sheriff Kunkel, background checks will only be performed on contractors working in the building. The Owner will cover the fee. Once interior work starts, General Contractor will need to provide list of names and birth dates of workers to coordinate with Captain Good on these checks. This information has been added to the specifications.

2. Q: Parking availability for Contractors.
   A: Per the University of Iowa Parking and Transportation Department, Lot 11 currently has mobile parking zones that public persons can use to pay their hourly parking through Park Mobile with the license plate and credit card. Starting in January 2026, the lot will revert back to allowing public persons to pull an entry ticket and pay the hourly rate. The hourly rate is currently $1.75/hour. This information has been added to the specifications.

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3. Q: Section 7.6 of the specs *(Specification 00 2113 Instruction to Bidders)* references Equal Opportunity compliance (MBE/WBE and Proposed Subcontractors list), however, on the provided Bid Form the only supplement that is mentioned in 1.9 is the Bidder Status Form. Are there documents that need to be submitted reflecting Equal Opportunity compliance; if so, could you please provide them so I know I am submitting the correct ones?
   A: Reference to Equal Opportunity compliance will be removed from this section and is not required. Edits have been made in the specifications.

4. Q: The agreement template within the specs has a 10% contingency included in the allowances. Is the general contractor supposed to include this 10% in our bid, or will it be added to our base bid amount?
   A: *Contractors are to NOT include contingency in the base bid. Once the bid is awarded, the 10% contingency will be added to the base bid amount during contracting.*

5. Q: On plan sheet C100 keynote D. Can you verify what you need from the General Contractor? This could be a pretty big expense.
   A: Due to the demand of the new equipment, MidAmerican is requiring a gas size increase (from 2" to 4"). MidAmerican will bore and install the new service line, the regulator at the desired delivery pressure (anticipated 2psi) and the meter (all work from gas main to the customer meter). The Contractor will take over at the outlet of the meter and be responsible for the piping from that point and any other regulators to further cut the pressure down. The existing line will be abandoned in place per MidAmerican. If there is conflict with the construction project, the Contractor is to remove the abandoned line. See detail 2/M-501 for additional details at the meter.

   The Contractor will be responsible for obtaining the gas release inspection from the City once everything is tied in before we can unlock the meter for use. The contractor will also be responsible for the coordination of MidAmerican's work and the City of Iowa City ROW inspection, including restoration of ROW infrastructure. In terms of cost, the customer (Johnson County) will be responsible for paying MidAmerican for the new service from the main line to the building as well as the regulator and meter/manifold.

   Due to the nature of this facility, Contractor coordination with MidAmerican will be essential regarding the gas shut-down timeframe. The gas shutdown to the building will have to be minimized and in no case shall exceed a 12-hour timeframe. If an evening or nighttime switchover can be coordinated with MidAmerican, the Owner would prefer this approach. Once the job is awarded, a pre-installation meeting will be held with the Owner, MidAmerican and the Contractor prior to advancement of construction.

   Keynotes will be updated.

6. Q: Can the City clarify what the note D means (C100 keynote) – demo per city franchise means and methos?
   A*: *This note is in reference to coordination with the City of Iowa City only. Because the gas main sits within the City ROW, all work within the ROW must be coordinated with the City and completed according to the city requirements including all restoration of public infrastructure per the City's guidance. Per other notes regarding this work, all of the work should be coordinated between the City and Franchise Utilities to ensure the work is completed per City requirements.

7. Q: Who is responsible for boring the hole for the new MidAmerican gas line?
   A: MidAmerican will bore the new service. Point of contact is Jacob Winter, Engineer II-Gas; Office 319-341-4406.

8. Q: Is it permissible to use a NEMA 3R cabinet for the rooftop panel SP-R instead of the proposed Anchor EBK 0900 box?
   A: *Yes, a NEMA 3R cabinet will be adequate provided you coordinate with Anchor to ensure the brackets and mounting are sized appropriately based on the NEMA 3R cabinet dimensions.*

9. Q: Is a curb necessary for the rooftop panel SP-R? And what is the minimum height required from rooftop to bottom of panel?
   A: *No, a curb is not required if the assembly is sized appropriately per Anchor's recommendation. Please keep a minimum of 14" from roof to bottom of panel. The working space platform in front of the panel should have a step up (e.g. 2x 7" risers).*

APPROVED SUBSTITUTION REQUESTS:

Specification Section:	07 2100 Thermal Insulation
Item:	Polyisocyanurate (ISO) Board Insulation
Manufacturer:	OX Engineered Products: isoREDMAX

Specification Section:	23 7416 Packaged Rooftop Unit
Item:	RTU
Manufacturer:	Carrier

SPECIFICATIONS:

G2-1 **SECTION 00 2113 INSTRUCTIONS TO BIDDERS**

1. **EDIT** Sections to **7.6 ADDITIONAL BID INFORMATION**, as follows:
   A. **REMOVE:** A. Equal Opportunity compliance is required for this project and is part of these specifications.

1. **REMOVE:** 1. MBE/WBE Contract Compliance Program; submit with bid.
2. **REMOVE:** 2. Proposed Subcontractors List: submit within 48 hours after submission of bids.

B. **ADD:** A. Proposed Subcontractors List: submit within 14 days after submission of bids.

G2-2 **SECTION 01 5000 TEMPORARY FACILITIES AND CONTROLS**

1. **ADD** Sections to **1.11 SECURITY**, as follows:
   A. B. Any interior access that is required during the project must be coordinated with the County and Sheriff personnel per the security requirements of the facility.
      1. **ADD:** 1. Background checks will be performed on Contractors working within the building.
      2. **ADD:** 2. Fee will be covered by the Owner.
      3. **ADD:** 3. General Contractor to coordinate background checks with Captain Good and provide a list of the workers' names and birthdates.

G2-3 **SECTION 01 5500 TEMPORARY FACILITIES AND CONTROLS**

1. **ADD** Sections to **3.3 PARKING**, as follows:
   A. B. When site space is not adequate, provide additional off-site parking.
      1. **ADD** 1. Lot 11, owned by University of Iowa Parking and Transportation Department, currently has mobile parking zones for public use to pay hourly through the Park Mobile program using license plate and credit card.
      2. **ADD** 2. Starting January 2026, Lot 11 will revert back to allowing the public to pull an entry ticket and pay the hourly rate.
      3. **ADD** 3. The hourly rate is currently $1.75/hour.

M2-1 **SECTION 22 1516 FACILITY NATURAL GAS PIPING**

1. **ADD** Sections to **2.5 JOINTS**, as follows:
   A. A. Steel Pipe:
      1. **ADD** 2. Welded pipe (2 1/2" dia and larger): Welding shall conform to welding section of ANSI- B31.3 "Code for Power Piping."

M2-2 **SECTION 23 6500 CLOSED CIRCUIT COOLERS**

1. **ADD** Sections to **2.8 CONTROLS**, as follows:
   A. **ADD** D. All alarm programming to be provided by the Owner.

DRAWINGS:

C2-1 Drawing **C100– SITE PLAN AND STAGING PLAN**

1. **REVISE** Keynote D: Due to the demand of the new equipment, MidAmerican is requiring a gas size increase (from 2" to 4"). MidAmerican will bore and install the new service line, the regulator at the desired delivery pressure (anticipated 2psi) and the meter (all work from gas main to the customer meter). The Contractor will take over at the outlet of the meter and be responsible for the piping from that point and any other regulators to further

cut the pressure down. The existing line will be abandoned in place per MidAmerican. If there is conflict with the construction project, the Contractor is to remove the abandoned line. See detail 2/M-501 for additional details at the meter.

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2. **REMOVE** Keynote E: No longer necessary.

A2-1 Drawing **AD201 – ELEVATIONS - DEMO**

1. REVISED Keynotes and area hatching to clarify masonry demo scope
2. ADDED Keynotes for upper window sill replacement

A2-2 Drawing **A201 – ELEVATIONS**

1. REVISED Area hatching to clarify masonry replacement scope
2. ADDED Keynotes for upper window sill replacement

A2-3 Drawing **A501 – ROOF MECHANICAL PLAN**

1. REVISED notes on detail 3 to clarify sill replacement scope.

S2-1 Drawing **S-500 – DETAILS**

1. Detail 3|S-500: steel coating requirement updated.
2. Detail 8|S-500: steel coating requirement updated.

M2-1 Drawing **M-121 – ROOF MECHANICAL PLAN**

1. ADDED Refrigerant pipe dog house note for existing Daikin Mini-split system.
2. ADDED Refrigerant pipe dog house note for new mini-split system, UV-1 and CU-1.
3. REVISED Cooling tower CT-1 note to include pipe connection size.

M2-2 Drawing **M-502 – MECHANICAL SCHEDULES**

1. ADDED Pipe connection size to roof drain, RD-1.
2. ADDED Refrigerant pipe dog house note to MINI-SPLIT AIR-CONDITIONER SCHEDULE.

3. ADDED Cooling tower alarm controls note to be provided by owner on CLOSE CIRCUIT COOLER SCHEDULE.

E2-1 Drawing **E-103 – ROOF ELECTRICAL PLAN**

4. ADD Electrical Keyed Notes.
5. REVISE rooftop chiller control panel wiring.

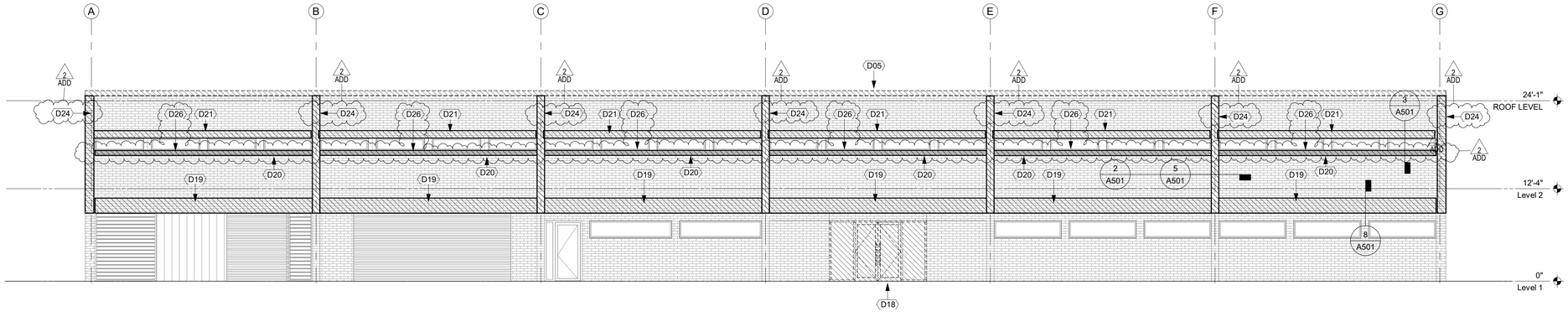
E2-2 Drawing **E-501 – ELECTRICAL DETAILS**

1. Detail 2|E-501: elaborated on basis of design and installation requirements.

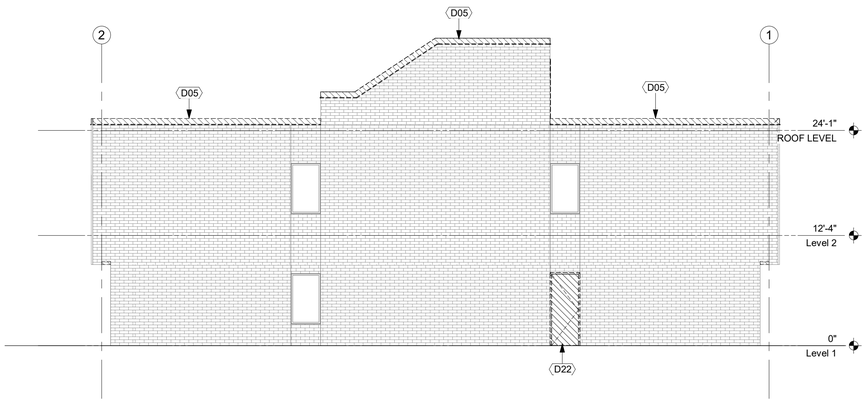
E2-3 Drawing **E-601 – ELECTRICAL SCHEDULES**

1. ADD Electrical Keyed Note 9.
2. REVISE rooftop chiller control amperage and remarks.
3. REVISE CT-1 load and total panel load.
4. REVISE fused disconnect size.

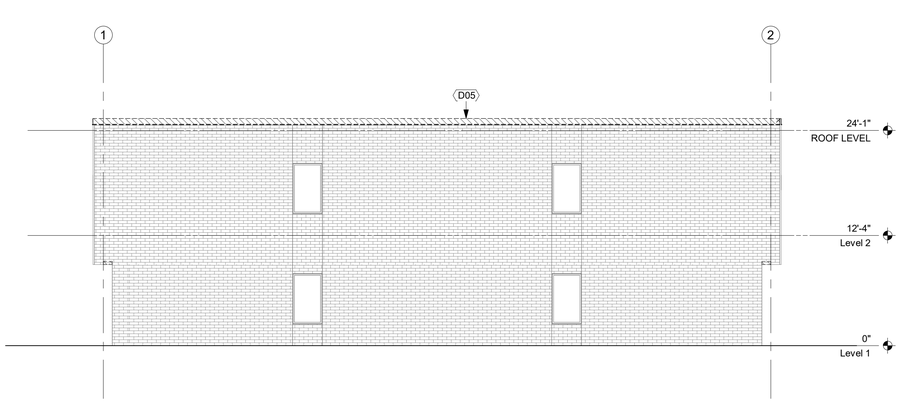
END OF ADDENDUM 02



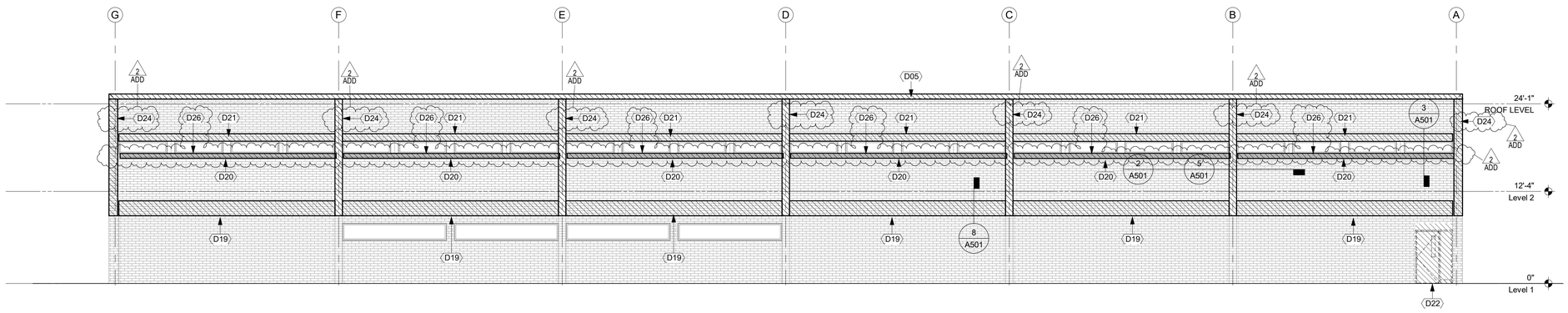
2 EAST ELEVATION - DEMO
1/8" = 1'-0"



3 NORTH ELEVATION - DEMO
1/8" = 1'-0"



4 SOUTH ELEVATION - DEMO
1/8" = 1'-0"



5 WEST ELEVATION - DEMO
1/8" = 1'-0"

GENERAL NOTES

1. DIMENSIONS ARE MEASURED FACE-OF-FINISH TO FACE-OF-FINISH OR ROUGH MASONRY OPENING UNLESS NOTED OTHERWISE - TYPICAL FOR ALL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS - TYPICAL FOR ALL DRAWINGS.
3. IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR ALL DRAWINGS.
4. ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPPING SYSTEM.
5. TEMPORARY SHORING DESIGN FOR MASONRY REPAIR, REMOVAL AND REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

DEMOLITION LEGEND

DENOTES AREA OF COMPLETE REMOVAL OF AN EXISTING ~~BUILDING~~ ELEMENT, SEE KEYNOTES FOR ADDITIONAL INFORMATION

DENOTES AREA OF SELECTIVE DEMO OF SPALLING BRICK

KEYNOTE LEGEND

D05	REMOVE METAL COPING COMPLETE.
D18	REMOVE HOLLOW METAL ENTRANCE SYSTEM COMPLETE
D19	REMOVE SECTION OF BRICK TO ALLOW REPAIR OF STRUCTURAL SYSTEM, SHORE SECTIONS OF BRICK ABOVE AS REQUIRED. SHORING DESIGN SHALL BE RESPONSIBILITY OF THE CONTRACTOR
D20	REMOVE AND REPLACE SPALLING BRICK
D21	REMOVE SECTION OF BRICK TO ALLOW REPLACEMENT OF WINDOW HEAD FLASHING
D22	REMOVE DOOR AND FRAME, PREP OPENING FOR INSTALLATION OF NEW DOOR AND FRAME
D24	REMOVE VERTICAL SECTION OF BRICK TO ALLOW FOR STRUCTURAL REPAIRS
D26	REMOVE AND REPLACE SILL AT UPPER WINDOWS, TYPICAL

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511 CAPITOL STREET BUILDING
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IOWA CITY, IA 52240

ISSUED FOR
PERMITTIING DOCUMENTS

DATE	2025-10-10

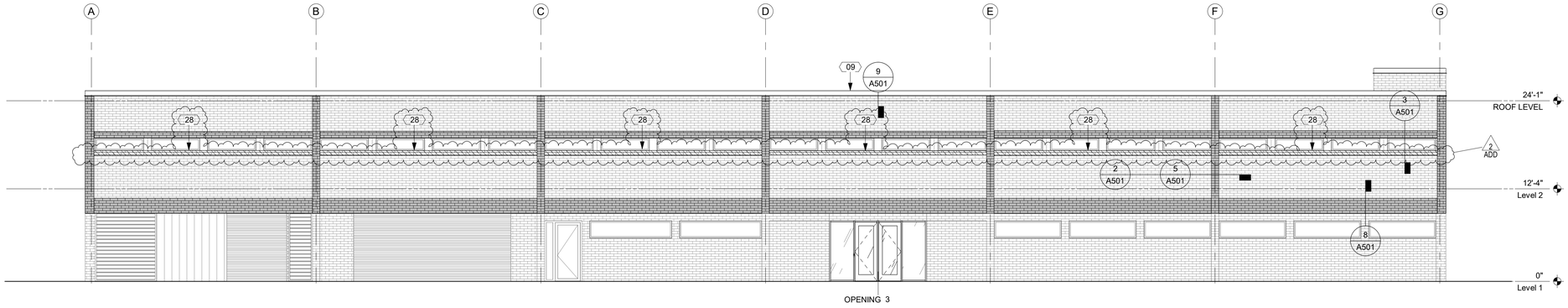
DESCRIPTION	DATE
Addendum 2	12/2/2025

DRAWN BY	Author
CHECKED BY	Checker
PROJECT NO.	

SHEET NAME
ELEVATIONS - DEMO

NOT FOR CONSTRUCTION

AD201



2 EAST ELEVATION
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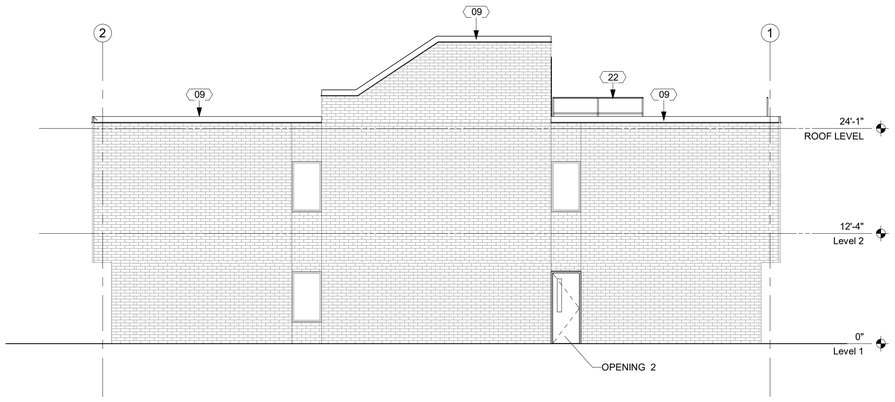

3 NORTH ELEVATION
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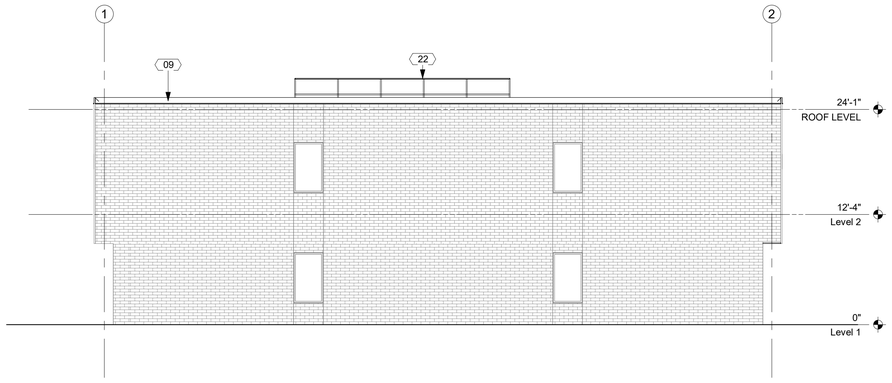
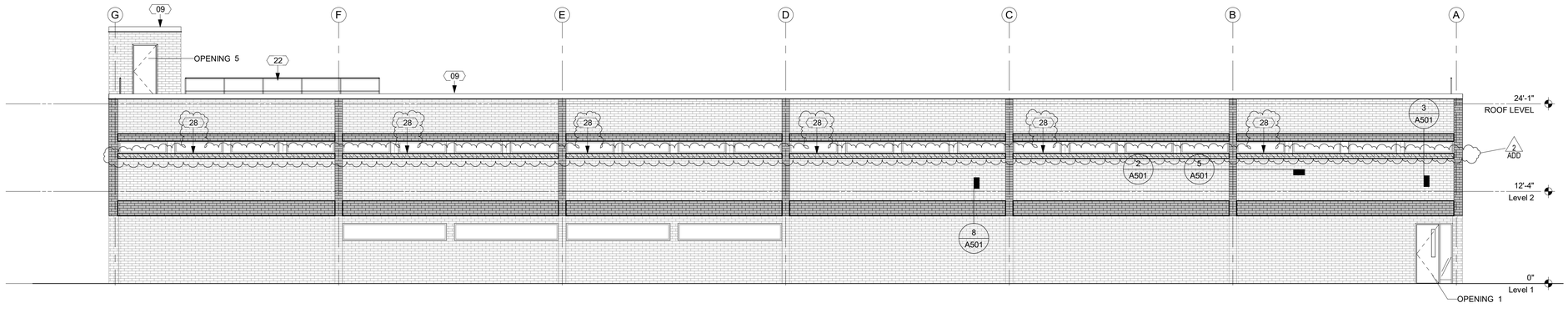


4 SOUTH ELEVATION
1/8" = 1'-0"



5 WEST ELEVATION
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LEGEND

EXISTING BRICK

NEW BRICK

2 ADD — REPLACE SPALLING BRICK

KEYNOTE LEGEND

09 NEW PREFINISHED GRAVEL STOP

22 ROOFTOP GUARDRAIL SYSTEM, SEE STRUCTURAL DRAWINGS

28 REPLACE METAL SILL AT UPPER WINDOWS TYPICAL, SEE DETAIL 3/A501.

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Addendum 2	12/2/2025

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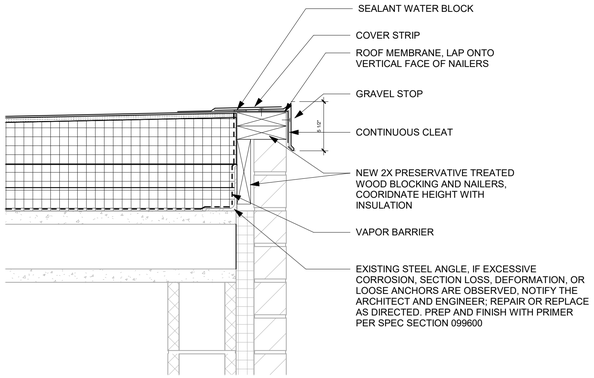
CHECKED BY	Checker
PROJECT NO.	

SHEET NAME

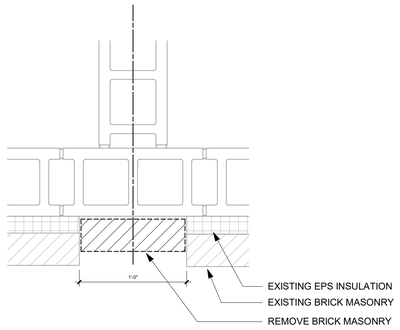
ELEVATIONS

NOT FOR CONSTRUCTION

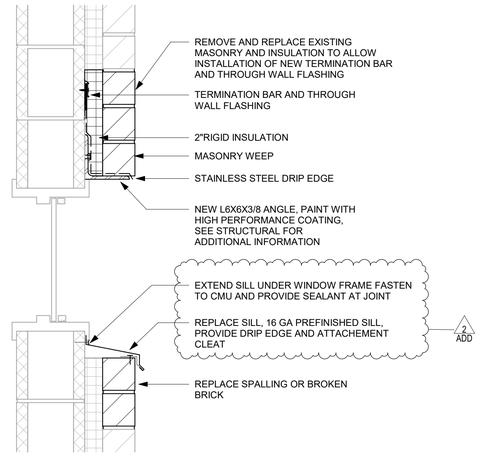
A201



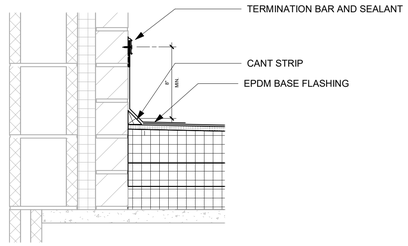
1 ROOF EDGE DETAIL
1 1/2" = 1'-0"



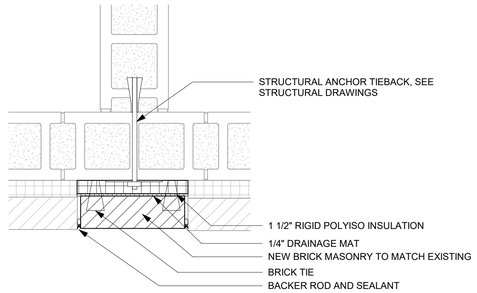
2 SECTION DETAIL AT REVEAL DEMO
1 1/2" = 1'-0"



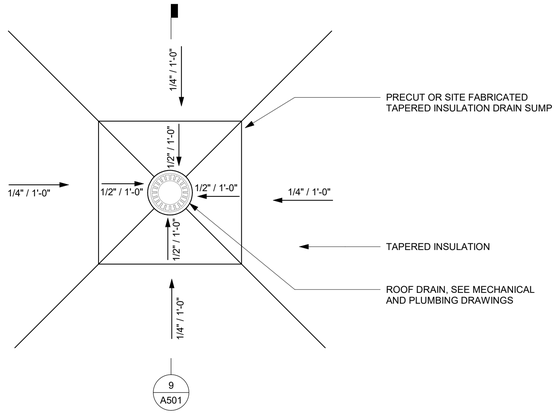
3 SECTION DETAIL UPPER WINDOW
1 1/2" = 1'-0"



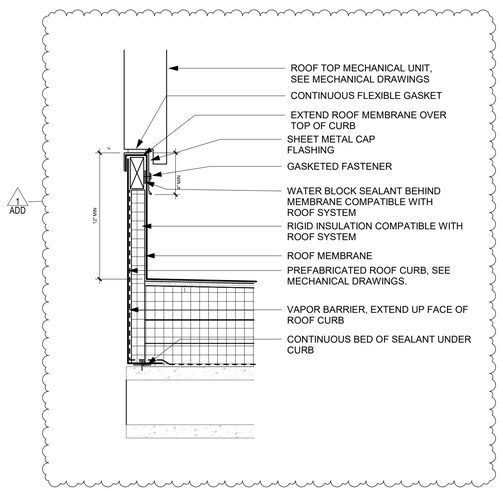
4 ROOF DETAIL - BASE OF WALL
1 1/2" = 1'-0"



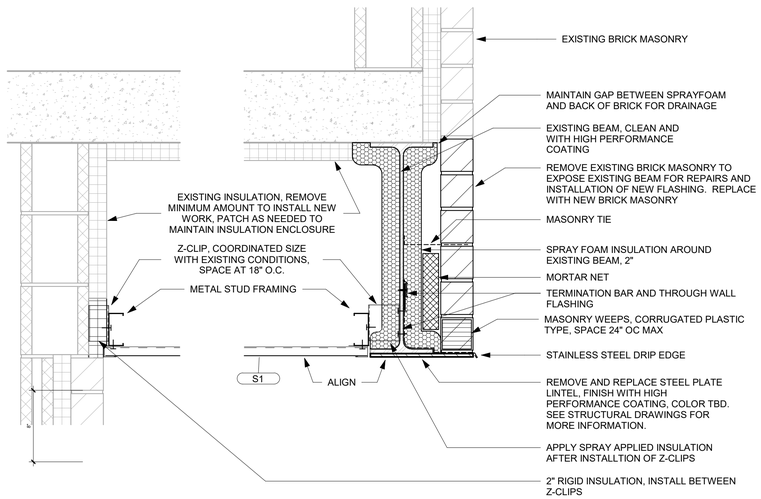
5 SECTION DETAIL AT REVEAL NEW
1 1/2" = 1'-0"



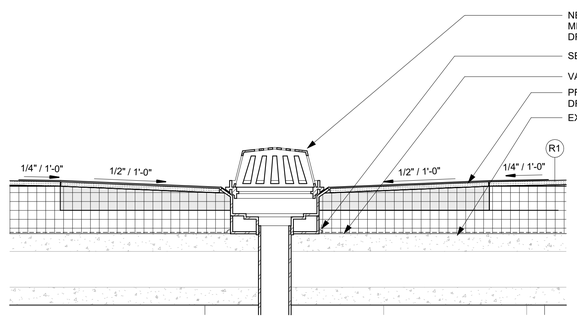
6 DRAIN SUMP DETAIL
1/2" = 1'-0"



7 ROOF DETAIL - MECHANICAL CURB DETAIL
1 1/2" = 1'-0"



8 DETAIL AT CANTILEVER EDGE AND SOFFIT
1 1/2" = 1'-0"



9 ROOF DRAIN DETAIL
1 1/2" = 1'-0"

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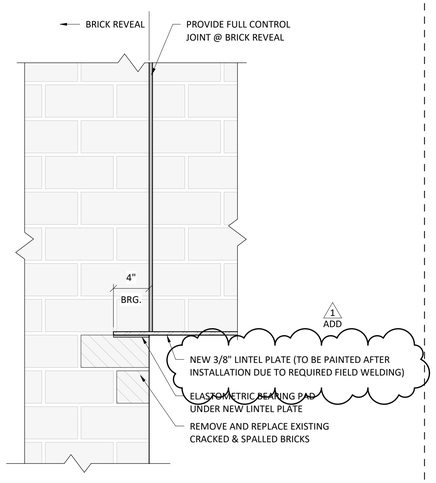
DESCRIPTION	DATE
Addendum 1	11/24/25
Addendum 2	12/2/2025

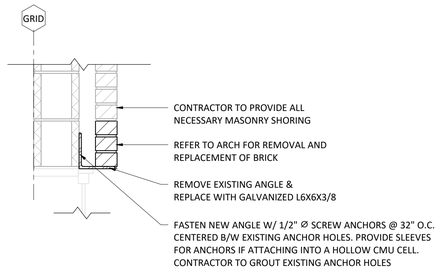
DRAWN BY	OPN
CHECKED BY	OPN
PROJECT NO.	

SHEET NAME
DETAILS

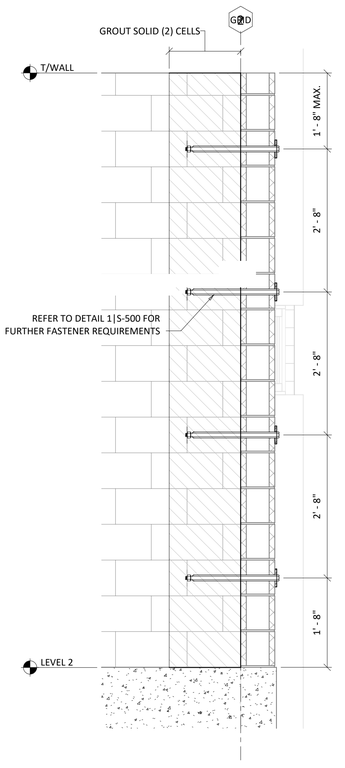
A501



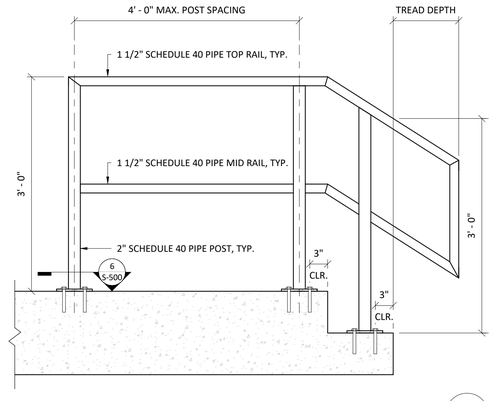
LINTEL PLATE BEARING 8 / S-500
1 1/2" = 1'-0"



TYP. UPPER WINDOW LINTEL DETAIL 5 / S-500
1" = 1'-0"

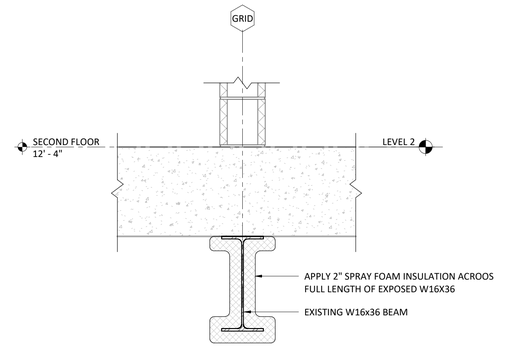


REVEAL ANCHOR SPACING DETAIL 2 / S-500
3/4" = 1'-0"

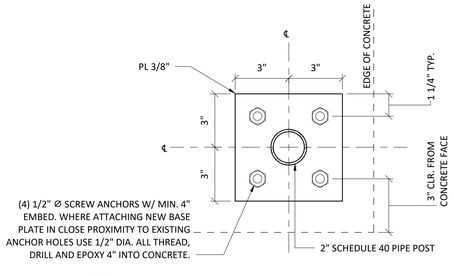


NOTE:
1. ALL HANDRAIL MATERIAL SHALL BE GALVANIZED WITH PAINTED FINISH.
2. CONTRACTOR TO FIELD VERIFY ALL RELEVANT EXISTING DIMENSIONS AND EXTENTS OF HANDRAIL.

STAIR RAILING 7 / S-500
1" = 1'-0"

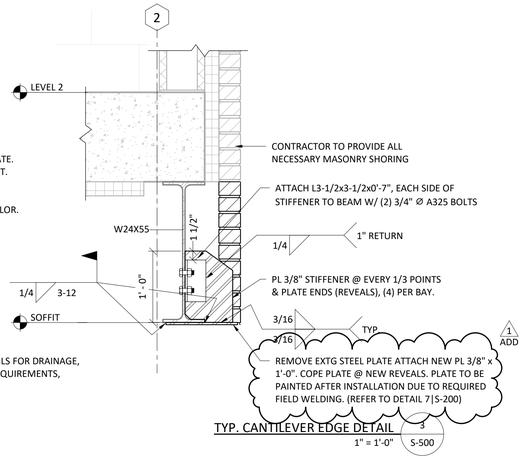


TYP. W16 INSULATION DETAIL 4 / S-500
1" = 1'-0"



NOTE:
1. ALL HANDRAIL MATERIAL SHALL BE GALVANIZED WITH PAINTED FINISH.
2. SEAL ALL EXISTING ANCHOR HOLES IN EXISTING STOOP.

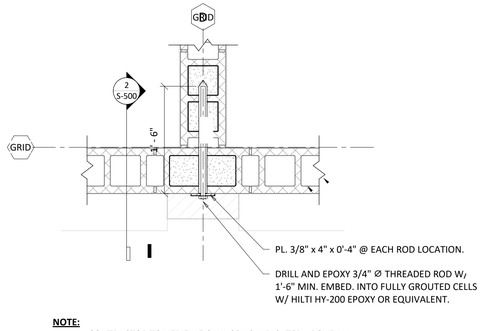
HANDRAIL BASEPLATE DETAIL 6 / S-500
3" = 1'-0"



WORK TO BE COMPLETED:
1. CONTRACTOR TO REMOVE EXISTING LINTEL PLATE.
2. SANDBLAST BEAM TO REMOVE ALL VISIBLE RUST.
3. ATTACHED NEW LINTEL PLATE.
4. APPLY HIGH PERFORMANCE PRIMER TO ALL UNPAINTED STEEL. REFER TO ARCH FOR PAINT COLOR.
5. APPLY 2" SPRAY FOAM AROUND ENTIRE BEAM.

NOTE: REFER TO ARCH DETAILS FOR DRAINAGE, FLASHING, & INSULATION REQUIREMENTS,

TYP. CANTILEVER EDGE DETAIL 3 / S-500
1" = 1'-0"



NOTE:
1. CONTRACTOR TO VERIFY IF CMU CELLS INDICATED ABOVE ARE GROUTED PRIOR TO EPOXY AND THREADED ROD INSTALLATION.
2. REFER TO DETAIL 5|A-501 FOR REVEAL FINISH REQUIREMENTS.

TYP. ANCHOR TIEBACK DETAIL @ REVEAL 1 / S-500
1" = 1'-0"

NOT FOR CONSTRUCTION

AXIOM CONSULTANTS
WWW.AXIOM-CON.COM | (319) 519-6220

OPN ARCHITECTS

Axiom Consultants
300 S Clinton St #200
Iowa City, IA 52240

OPN Architects
24 1/2 S Clinton St #1
Iowa City, IA 52240

511 CAPITOL STREET BUILDING STABILIZATION PROJECT

511 S CAPITAL ST.
IOWA CITY, IA 52240

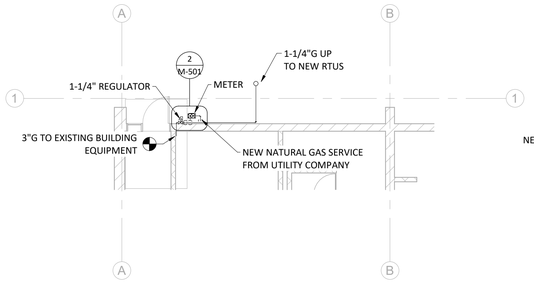
ISSUED FOR
PERMITTING DOCUMENTS

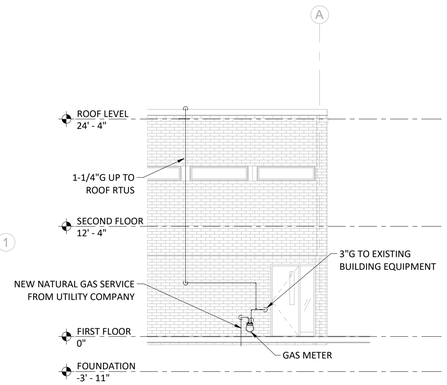
DATE	10/10/2025
DESCRIPTION	DATE
ADDENDUM 02	12/02/2025

DRAWN BY	CS
CHECKED BY	JS
PROJECT NO.	240123

SHEET NAME
STRUCTURAL DETAILS

S-500





GAS PIPING SUPPORT

SCHED 40 STEEL PIPE SIZE ("Ø)	MAXIMUM ALLOWED SUPPORT SPACING (FT)
1/2"	≤ 6 FEET
3/4" TO 1"	≤ 8 FEET
≥ 1-1/4" (HORIZONTAL)	≤ 10 FEET
≥ 1-1/4" (VERTICAL)	EVERY LEVEL

1. NFPA 54, 7.2.6.2
2. INTERIOR HUNG PIPING SHALL BE SUSPENDED FROM STRUCTURE.
3. EXTERIOR PIPING ON GRADE SHALL BE SUPPORTED WITH APPROVED FIXED BLOCKING APPROVED BY THE ENGINEER OF RECORD PRIOR TO INSTALLATION.

GENERAL NATURAL GAS PIPING NOTES:

1. NATURAL GAS PIPING SIZED PER UNIFORM PLUMBING CODE 2024, UPC 2024 (TABLE 1215.2(4): INLET PRESSURE 2.0 PSI | PRESSURE DROP 1 PSI.
   A. ASSUMED DEVELOPED LENGTH OF PIPING = 300 FEET.
   B. NEW HVAC EQUIPMENT NATURAL GAS LOAD = 1,209 CFH.
   C. TOTAL BUILDING NATURAL GAS LOAD (EXISTING + NEW) = 2,380 CFH.
      a. HEATING VALUE OF NG ASSUMED TO BE: 1,100 BTU/HOUR = 1 CFH.
2. PROVIDE EACH NATURAL GAS-FIRED EQUIPMENT WITH MANUAL GAS SHUTOFF VALVE AND PRESSURE REGULATOR.
3. NATURAL GAS PRESSURE REGULATORS SHALL BE VENTED TO THE EXTERIOR PER MANUFACTURER'S REQUIREMENTS.
4. GAS PIPING THAT CROSSES THE WALK-PATH SHALL BE WRAPPED WITH HIGH-VISIBILITY TAPE TO ALERT STAFF.
5. GAS PIPING SHALL BE SUPPORTED AS SHOWN IN INCLUDED TABLE.

GENERAL MECHANICAL NOTES:

1. VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK.
2. COORDINATE ALL DUCTWORK AND PIPE ROUTING WITH BUILDING STRUCTURE AND OTHER TRADES PRIOR TO INSTALLATION TO ALLOW FOR PROPER CLEARANCE SPACE.
3. MAINTAIN SERVICE CLEARANCE REQUIREMENTS AROUND ALL MECHANICAL EQUIPMENT AND ELECTRICAL EQUIPMENT. DO NOT ROUTE PIPING OR DUCTWORK IN CLEARANCE SPACE.
4. M.C. COORDINATE REFRIGERANT LINE ROUTING FROM CONDENSING UNITS TO THE RESPECTIVE UNITS.
5. M.C. SHALL COORDINATE ANY AREA WHERE ACCESS TO EQUIPMENT OR HVAC COMPONENTS ARE REQUIRED TO ALLOW ACCESS FOR MAINTENANCE OR INSPECTION WITH G.C.
6. COORDINATE NEW RTU LOCATION WITH EXISTING OPENINGS THROUGH ROOF. NEW RTUS SHALL BE PROVIDED WITH NEW ROOF CURBS.
7. COORDINATE LOCATION OF ROOFTOP EQUIPMENT WITH ALL VENTS.
8. ROOFTOP EQUIPMENT SHALL BE INSTALLED TO NOT BLOCK ROOF ACCESS DOORS WITH EQUIPMENT.
9. MAINTAIN 10'-0" CLEARANCE BETWEEN ALL ROOFTOP UNITS, VENTILATION AIR INTAKE, AND ANY SOURCE OF VENT OR EXHAUST.

MECHANICAL KEYNOTES:

2 ADD — 1 — EXISTING DAIKIN MINI-SPLIT CONDENSING UNIT (CU) TO BE REINSTALLED PRIOR TO THE ROOF REPLACEMENT. PROVIDE NEW CONDENSING UNIT SUPPORT RACK THAT IS INSTALLED PRIOR TO EPDM ROOFING. PROVIDE NEW REFRIGERANT PIPING DOG HOUSE BOX FOR PIPE ROUTING TO EXISTING DAIKIN INDOOR UNIT VENTILATOR

2 — EXISTING ROOF EXHAUST FANS (EF) TO BE REINSTALLED PRIOR TO THE ROOF REPLACEMENT. CONTRACTOR TO VERIFY IF NEW ROOF CURB IS REQUIRED.

3 — EXISTING MAKEUP AIR UNIT (MAU) TO BE REINSTALLED PRIOR TO THE NEW ROOF REPLACEMENT. CONTRACTOR TO VERIFY IF NEW ROOF CURB IS REQUIRED.

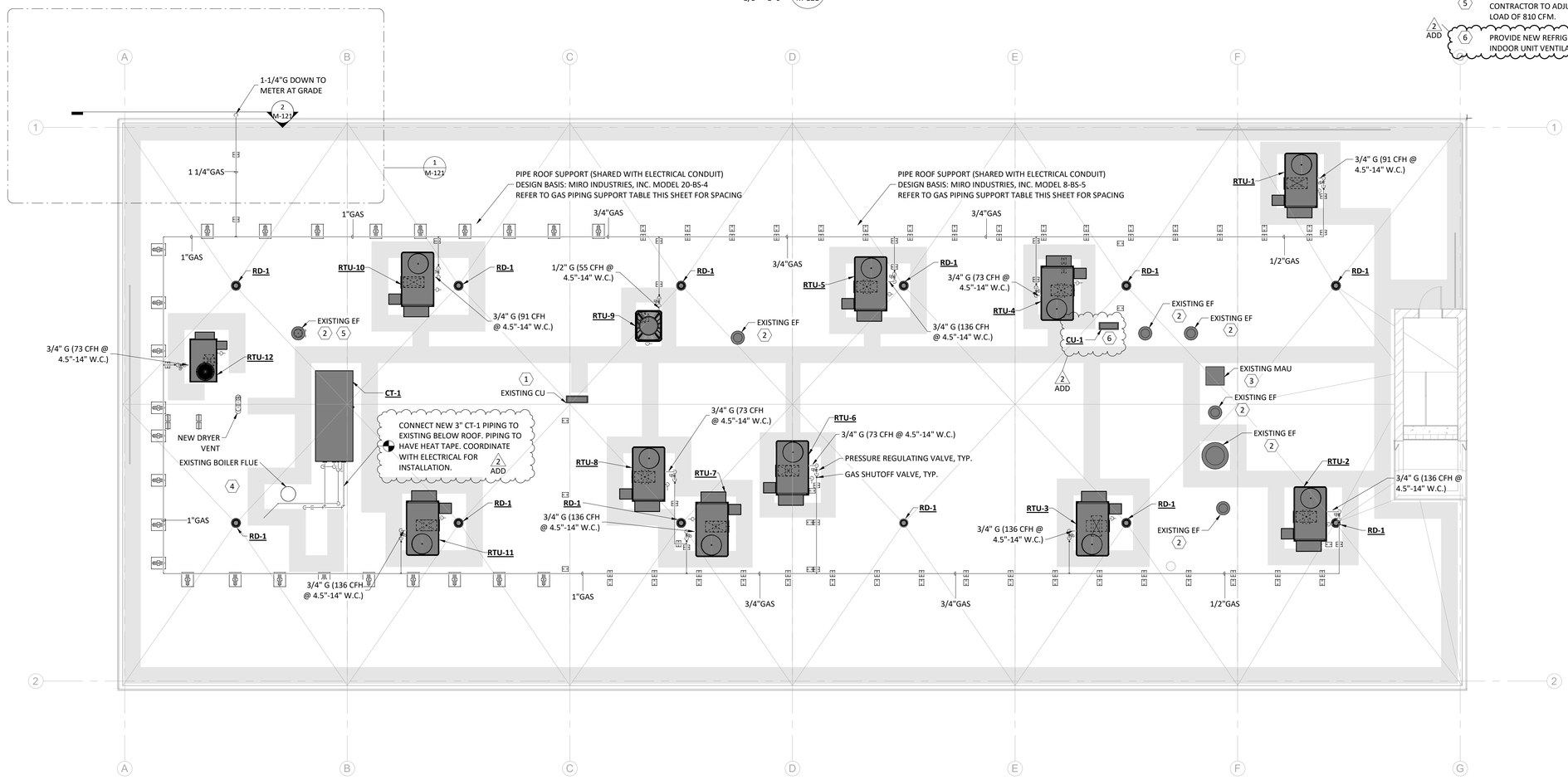
4 — EXISTING BOILER FLUE AND WEATHER CAP TO BE REINSTALLED PRIOR TO THE ROOF REPLACEMENT.

5 — EXISTING EXHAUST FAN ADJUSTED TO HANDLE ADDITIONAL EXHAUST CFM. CONTRACTOR TO ADJUST FAN SPEED AND BALANCE AIRFLOW FOR AN EXHAUST LOAD OF 810 CFM.

2 ADD — 6 — PROVIDE NEW REFRIGERANT PIPING DOG HOUSE BOX FOR PIPE ROUTING TO INDOOR UNIT VENTILATOR, **UV-1**.

LEVEL 1 MECHANICAL PLAN - GAS METER LOCATION (1 / M-121)
1/8" = 1'-0"

GAS METER VIEW DETAIL (2 / M-121)
1/8" = 1'-0"



ROOF MECHANICAL PLAN
1/8" = 1'-0"

N

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511 CAPITOL STREET BUILDING STABILIZATION PROJECT

511 S CAPITOL ST.
IOWA CITY, IA, 52240

ISSUED FOR
PERMITTING DOCUMENTS

DATE	10/10/25

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ADDENDUM 01	11/25/2025
ADDENDUM 02	12/02/2025

DRAWN BY	LM
CHECKED BY	JL
PROJECT NO.	10271-10004

SHEET NAME
ROOF MECHANICAL PLAN

M-121

ROOFTOP UNIT | NATURAL GAS-FIRED SCHEDULE

PLAN MARK	SUPPLY AIRFLOW (CFM)	OA AIRFLOW (CFM)	EXTERNAL SP (IN. W.G.)	TOTAL SP (IN. W.G.)	COOLING LOADS			COOLING AIR CONDITIONS		DX COOLING COIL REFRIGERANT	MINIMUM EFFICIENCY (EER)	HEATING		HEATING AIR CONDITIONS		HEAT EXCHANGER MATERIAL	FUEL - NATURAL GAS			ELECTRICAL				DIMENSIONS (INCH)			WEIGHT (LBS.)	AREA SERVED	MANUFACTURER | MODEL	NOTES
					SENSIBLE (MBH)	LATENT (MBH)	TOTAL (MBH)	EAT DB/WB	LAT DB/WB			INPUT (MBH)	OUTPUT (MBH)	EAT (DEG. F)	LAT (DEG. F)		AFUE	GAS SIZE (ø)	MIN.-MAX. INLET PRESSURE	HP	AMPS (FLA)	VOLTAGE	ø	LENGTH	WIDTH	HEIGHT (NOTE 15)				
RTU-1	1,840	766	0.67	0.81	46.8	16.0	62.8	83/68	56/56	R-454B	13.0	100.0	81.0	60	100	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3	30	208	3	88.1	53.3	50.9	1,090	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK060	1,2,4,5,6,7,8,9,10, 11,12,13,14,15,16
RTU-2	2,000	393	0.56	0.72	47.8	12.4	60.2	79/65	54/54	R-454B	13.0	150.0	121.5	50	105	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3	30	208	3	88.1	53.3	50.9	1,105	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK060	1,2,4,5,6,7,8,9,10, 11,12,13,14,15,16
RTU-3	2,000	866	0.75	0.91	47.8	12.8	60.2	79/65	54/54	R-454B	13.0	150.0	121.5	60	115	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3	30	208	3	88.1	53.3	50.9	1,105	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK060	1,2,4,5,6,7,8,9,10, 11,12,13,14,15,16
RTU-4	1,600	393	0.49	0.55	33.1	14.3	47.4	82/67	52/52	R-454B	13.0	80.0	64.8	60	109	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3	28	208	3	88.1	53.3	50.9	1,055	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK048	1,2,4,5,6,7,8,9,10, 11,12,13,14,15,16
RTU-5	2,000	1,059	0.65	0.81	65.6	18.2	83.8	86/69	56/56	R-454B	12.2	150.0	121.5	70	125	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3	34	208	3	88.1	53.3	50.9	1,189	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK072	1,2,3,5,6,7,8,9,10, 11,12,13,14,15,16
RTU-6	1,285	260	0.96	1.03	33.3	12.9	46.2	79/65	51/51	R-454B	13.0	80.0	64.8	60	106	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3	28	208	3	88.1	53.3	50.9	1,055	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK048	1,2,4,5,6,7,8,9,10, 11,12,13,14,15,16
RTU-7	2,000	1,105	0.71	0.87	65.6	18.2	83.8	86/69	56/56	R-454B	12.2	150.0	121.5	60	115	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3	34	208	3	88.1	53.3	50.9	1,189	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK072	1,2,3,5,6,7,8,9,10, 11,12,13,14,15,16
RTU-8	1,580	337	0.44	0.54	39.4	8.7	48.1	80/65	54/54	R-454B	13.0	80.0	64.8	70	107	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3	28	208	3	88.1	53.3	50.9	1,055	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK048	1,2,4,5,6,7,8,9,10, 11,12,13,14,15,16
RTU-9	770	50	0.51	0.51	-	-	24.0	77/64	54/54	R-454B	11.5	60.0	48.0	60	70	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	1/2	5	208	1	52.0	45.0	46.0	374	SEE PLANS	TRANE ROOFTOP UNIT MODEL 5YCZ5024	1,2,4,7,9,10,1 1,12,13,15,16
RTU-10	1,600	658	0.50	0..61	42.8	18.3	61.1	83/68	54/54	R-454B	13.0	100.0	81.0	60	106	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3	30	208	3	88.1	53.3	50.9	1,090	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK060	1,2,4,5,6,7,8,9,10, 11,12,13,14,15,16
RTU-11	1,600	866	0.53	0.65	46.2	16.0	62.2	86/69	55/55	R-454B	13.0	150.0	121.5	60	129	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3	30	208	3	88.1	53.3	50.9	1,105	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK060	1,2,4,5,6,7,8,9,10, 11,12,13,14,15,16
RTU-12	1,000	190	0.29	0.49	27.0	9.0	36.0	79/65	52/52	R-454B	13.0	80.0	64.8	70	129	STAINLESS STEEL	81%	3/4"	5"-13" W.C.	3/4	20	208	3	69.4	44.3	46.9	809	SEE PLANS	TRANE ROOFTOP UNIT MODEL YHK036	1,2,4,5,6,7,8,9,10, 11,12,13,14,15,16

1. REFER TO MECHANICAL CONTROL SEQUENCES. REFER TO FLOOR PLANS FOR T-STAT & SENSOR LOCATIONS.
2. PROVIDE FACTORY INSTALLED STAND-ALONE CONTROLS.
3. PROVIDE MODULATING GAS VALVE.
4. PROVIDE STAGED GAS VALVE. RTU SHALL PROVIDE MIN. 2-STAGES OF HEATING.
5. PROVIDE UNITS ECONOMIZER WITH BAROMETRIC RELIEF, BASED ON DRY BULB TEMPERATURE.
6. PROVIDE UNITS WITH POWERED EXHAUST FOR BUILDING PRESSURIZATION CONTROL.
7. SUPPLY FAN IS DIRECT DRIVE, VARIABLE SPEED, BC PLENUM.
8. PROVIDE HOT GAS RE-HEAT (HGRH) FOR DEHUMIDIFICATION.
9. PROVIDE BIRD SCREENS FOR OUTSIDE AIR INLET.
10. PROVIDE 2" MERV13 AIR FILTERS.
11. PROVIDE CLOGGED FILTER SWITCH.
12. PROVIDE FACTORY WIRED 115V CONVENIENCE OUTLET.
13. PROVIDE UNIT MOUNTED NON-FUSED DISCONNECT SWITCH.
14. PROVIDE DUCT MOUNTED RA SMOKE DETECTORS FOR RTUS WITH AIRFLOWS OF 2,000 CFM AND LESS. PROVIDE RA & SA SMOKE DETECTORS FOR RTUS WITH AIRFLOWS GREATER THAN 4,000 CFM. SMOKE DETECTORS SHALL BE PROVIDED AND INSTALLATED BY THE FIRE ALARM (FA) CONTRACTOR.
15. PROVIDE ROOF CURB. CURB SHALL MAINTAIN MINIMUM 18" CLEAR ABOVE ROOF AND INSULATION FINISHED ELEVATION. REFER TO ARCHITECTURAL ELEVATIONS, SECTIONS AND DETAILS FOR ROOF AND INSULATION REQUIREMENTS. REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
16. OUTSIDE AIR CONDITIONS USED FOR HEATING, COOLING AND MIXED AIR:
    SUMMER: 95°F/75°F DB/WB.
    WINTER: -10°F DB.

DIFFUSER/REGISTER/GRILLE (DRG) SCHEDULE

PLAN MARK	FACE SIZE	INLET SIZE	BLADE DEFLECTION	INSTALLATION / MOUNTING	MATERIAL	COLOR / FINISH	MANUFACTURER/ MODEL	NOTES
EG-1	INLET SIZE + 2"	SEE PLANS	0°	SIDE/WALL MOUNT	STEEL	WHITE (4)	GREENHECK SECURITY GRILLE | MODEL XG-SGLF-50	1, 2, 3, 4, 5, & 6
EG-2	12" X 12"	SEE PLANS	N/A	CEILING	STEEL	WHITE (4)	GREENHECK EXHAUST GRILLE | MODEL RGPF-S	1, 2, 3, 4, & 5

1. CONTRACTOR SHALL DETERMINE PROPER MARGIN STYLE TO MATCH CEILING CONSTRUCTION.
2. ALL RUN OUT DUCTWORK TO DIFFUSERS SHALL BE NECK SIZE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL DETERMINE PROPER MARGIN STYLE TO MATCH CEILING CONSTRUCTION. REFER TO ARCHITECTURAL DETAILS FOR FINISH AND DESIRED LOOK.
4. CONFIRM COLOR AND FINISH WITH ARCHITECT TO ENSURE DESIGN INTENT IS ACHEIVED FOR EACH SPACE.
5. ALL DIFFUSERS/REGISTERS/GRILLES SHALL BE PROVIDED WITH INTEGRAL DAMPER OR MEANS FOR ADJUSTING AIRFLOW AT THE OUTLET.
6. GRILLE TO BE SECURITY RATED/TAMPER PROOF.

CLOSED CIRCUIT COOLER SCHEDULE

PLAN MARK	LOCATION	MOTORS					COOLING EFFECT							DIMENSIONAL DATA			OPERATING WEIGHT (LBS.)	ELECTRICAL			MANUFACTURER/ MODEL
		FAN			SPRAY PUMP		AIR SUPPLY		WATER SUPPLY					LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)		AMPS (FLA)	VOLTS (V)	PH	
		QTY	POWER (HP)	AIRFLOW (CFM)	QTY	POWER (HP)	EAT (DB)	EAT (WB)	FLOW (GPM)	EWT (DB)	LWT (DB)	PD (PSI)	EWR (GPM)								
CT-1	ROOF	1	7.5	12,500	1	0.5	95	79	100	103	90	6.8	1.04	122.0	41.0	88.0	4,960	23	208	3	EVAPCO CLOSED CIRCUIT COOLER MODEL LRWB 3-4H6-Z-H

1. ALARM PROGRAMMING FOR COOLING TOWER, CT-1, TO BE PROVIDED BY OWNER.

2 ADD

PLUMBING FIXTURE SCHEDULE

PLAN MARK	DESCRIPTION	MANUFACTURER/MODEL
RD-1	PRIMARY ROOF DRAIN - CAST IRON BODY, SECURED LOW SILHOUETTE CAST IRON DOME, 15-INCH ROUND ROOF DRAIN, WITH A BOTTOM 3" PIPE CONNECTION. COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARDS. 2 ADD	ZURN (Z100)

MINI-SPLIT AIR-CONDITIONER SCHEDULE

PLAN MARK	SUPPLY AIRFLOW (CFM)	COOLING CAPACITY - MIN. / MAX (MBH)	REFRIGERANT TYPE	SEER	HEATING CAPACITY (MBH)	HSPF	ELECTRICAL			DIMENSIONS (INCH)			MAX. REFRIG. TOTAL LENGTH // QUANTITY (LBS/1000 FT²)	WEIGHT (LBS.)	MANUFACTURER/MODEL	NOTES
							AMP (MCA)	VOLT	PHASE	WIDTH	DEPTH	HEIGHT				
UNIT VENTILATOR																
UV-1	317	--	(4)	--	--	10.2	2.5	208	1	35-7/16	28-7/8	9-7/8	--	58	MITSUBISHI MINI-SPLIT UNIT MODEL PEAD-A12AA9	1, 2, 3, 4, & 5
HEAT PUMP (CONDENSING UNIT)																
CU-1	--	4.8 / 12.0	(4)	21.8	--	--	11.0	208	1	31-13/16	11-13/16	24-13/16	165.0 // 3.1	92	MITSUBISHI CONDENSING UNIT MODEL PUY-A12NKA7	3, 4, 5, 6, 7, & 8

1. UNIT VENTILATOR SHALL BE EQUIPPED WITH CONDENSATE LIFT MECHANISM. ROUTE 3/4" CONDENSATE TO MOP SINK IN ADJACENT JANITOR CLOSET. DIVISION 26 CONTRACTOR SHALL WIRE THE CONDENSATE LIFT MECHANISM (PUMP).
2. PROVIDE UNIT VENTILATOR WITH WIRELESS REMOTE CONTROLLER.
3. REFRIGERANT LINESETS SHALL BE ROUTED IN MOST EFFICIENT PATH AND MINIMAL REFRIGERANT PIPE SHALL BE EXPOSED. ALL REFRIGERANT LINESET SHALL BE INSULATED PER ENERGY CODE REQUIREMENTS. PRE-INSULATED LINESETES ARE ACCEPTABLE.
4. MINI-SPLIT MANUFACTURER SHALL PROVIDE REFRIGERANT TYPE THAT MEETS ALL NEW FEDERAL REQUIREMENTS. REFER TO INTERNATIONAL MECHANICAL CODE, CHAPTER 11 REFRIGERANTS FOR MAXIMUM ALLOWABLE QUANTITY FOR SUBMITTED REFRIGERANT.
5. REFER TO SUBMITTED MANUFACTURER PIPING LENGTH RESTRICTIONS.
6. PROVIDE HAIL GUARD FOR CONDENSING UNIT CU-1
7. PROVIDE WIND BAFFLE FOR LOW AMBIENT COOLING.
8. INSTALL CONDENSING UNIT, CU-1 ON MOUNTING STAND - 12-INCH HEIGHT.
9. PROVIDE NEW REFRIGERANT PIPING DOG HOUSE BOX FOR PIPE ROUTING TO INDOOR UNIT VENTILATOR, UV-1.

2 ADD

AXIOM CONSULTANTS
A RUEKERT & MIELKE COMPANY

511 CAPITOL STREET BUILDING
STABILIZATION PROJECT
511 S CAPITOL ST.
IOWA CITY, IA, 52240

ISSUED FOR
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ADDENDUM 02	12/02/2025

DRAWN BY	LM
CHECKED BY	Checker
PROJECT NO.	10271-10004

SHEET NAME
MECHANICAL SCHEDULES

M-502

NOT FOR CONSTRUCTION

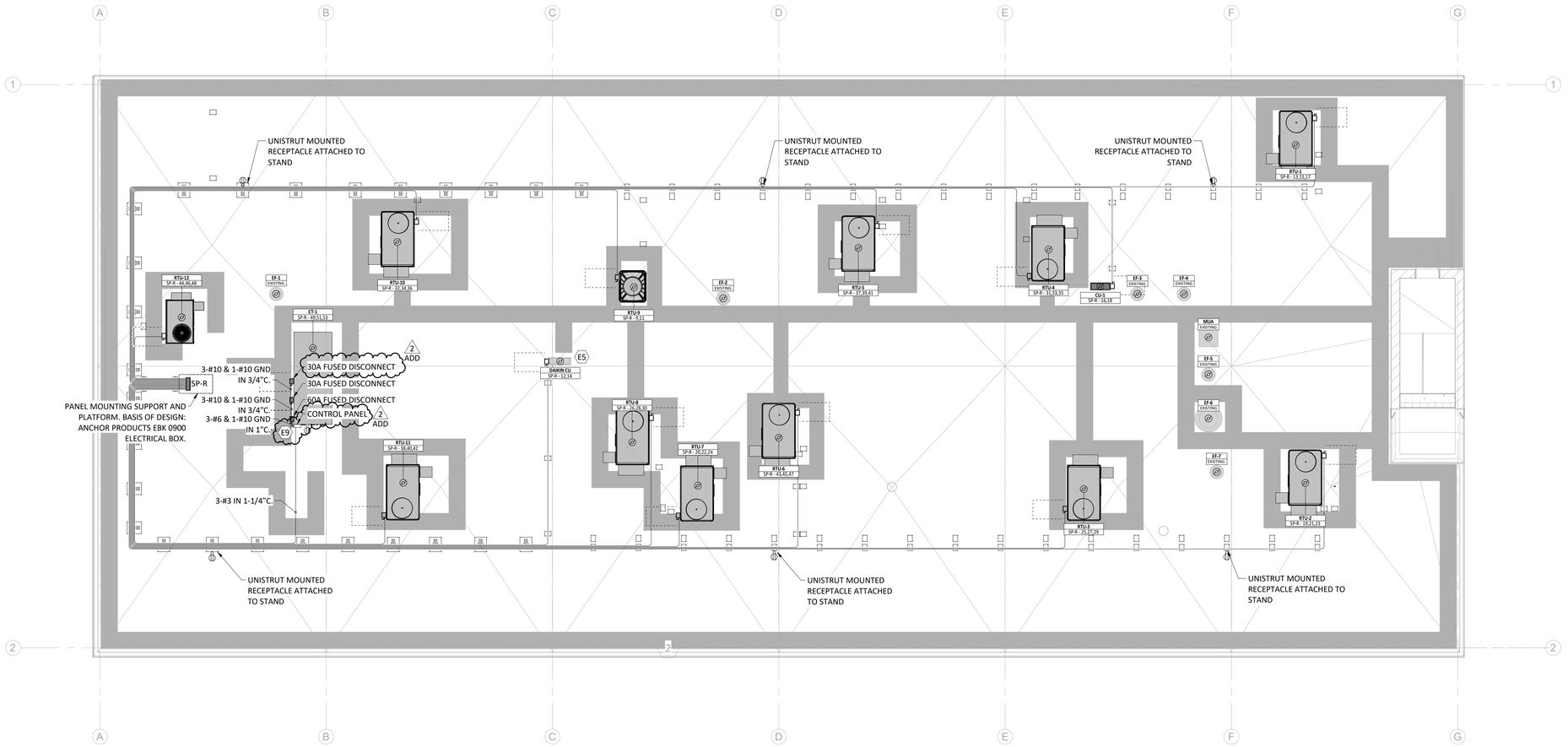
2 ADD

ELECTRICAL KEYED NOTES

E5	EXISTING DAIKIN MINI-SPLIT CONDENSING UNIT (CU) TO BE REUSED. REMOVE CU AND ANY PIPING, POWER, CONTROLS FOR ROOF REPLACEMENT. PROTECT EQUIPMENT FOR REINSTALLATION AND REUSE.
E9	BRING 100A 208V 3Ø CIRCUIT TO COOLING TOWER CONTROL PANEL. CONTROL PANEL TO HAVE INTEGRAL 100A MAIN CIRCUIT BREAKER. WIRE EACH OF THE SUPPLY FAN, HEATER, AND SPRAY PUMP FROM THE CONTROL PANEL TO A FUSED DISCONNECT, 60A, 30A AND 30A RESPECTIVELY. CONTROL PANEL AND DISCONNECT LOCATIONS ARE SHOWN FOR DIAGRAMMATIC PURPOSED ONLY. PLEASE COORDINATE FINAL LOCATIONS IN THE FIELD AND FOLLOW MANUFACTURER RECOMMENDATIONS.

ELECTRICAL NOTES

1	CONDUIT ROUTED ACROSS ROOF SHALL BE SUPPORTED USING CONDUIT STANDS. FOR SUPPORTING FIVE CONDUITS OR LESS USE MIRO INDUSTRIES 8-BASE STRUT-5. FOR MORE THAN FIVE CONDUITS USE MIRO INDUSTRIES 20-BASE STRUT-4.
2	PROVIDE TWO (2) SETS OF 100' HEAT TAPE FOR COOLING TOWER PIPING. BASIS OF DESIGN: VEVOR 100FT SELF-REGULATING PIPE HEATING CABLE.



ROOF FLOOR ELECTRICAL PLAN
1/8" = 1'-0"

N

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AXIOM CONSULTANTS
A RUEKERT & MIELKE COMPANY

511 CAPITOL STREET BUILDING STABILIZATION PROJECT

511 S CAPITOL ST.
IOWA CITY, IA, 52240

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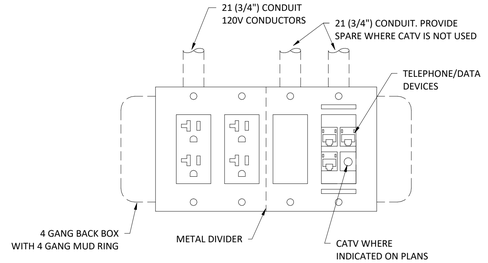
CHECKED BY	KDM
PROJECT NO.	10271-10004

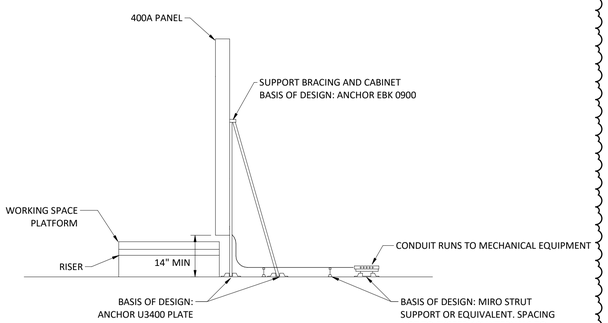
SHEET NAME
ROOF ELECTRICAL PLAN

E-103



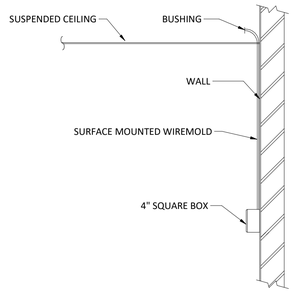
MULTI-SERVICE BOX AND DEVICES 4 PORT — NTS — 3 / E-501

2 ADD

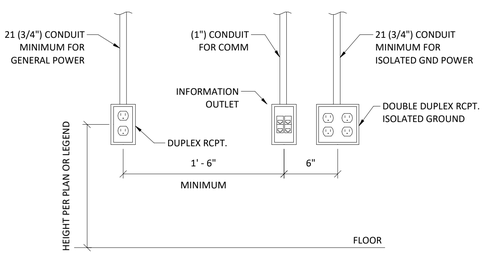


NOTE:
ELECTED SUPPORT MECHANISMS AND PLATFORM SOLUTION MAY DIFFER FROM WHAT IS SHOWN. THIS IS FOR DIAGRAMMATIC PURPOSES ONLY.

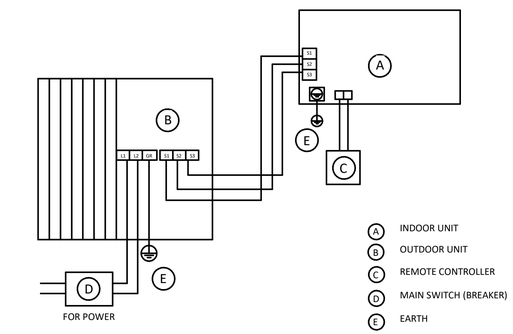
ROOF TOP ELECTRICAL PANEL — 1/2" = 1'-0" — 2 / E-501

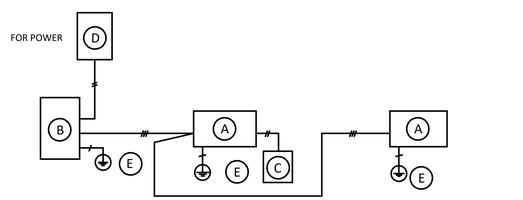


TELEPHONE/COMPUTER STUB UP DETAIL — NTS — 5 / E-501



TYPICAL OUTLET INSTALLATION DETAIL — NTS — 4 / E-501





CU-1 / UV-1 WIRING DIAGRAM — 3/16" = 1'-0" — 1 / E-501

NOT FOR CONSTRUCTION

AXIOM CONSULTANTS
A RUEKERT & MIELKE COMPANY

511 CAPITOL STREET BUILDING STABILIZATION PROJECT

511 S CAPITOL ST.
IOWA CITY, IA, 52240

ISSUED FOR
PERMITTING DOCUMENTS

DATE	10/10/25
DESCRIPTION	DATE
ADDENDUM 02	12/02/2025

DRAWN BY	DMS
CHECKED BY	KDM
PROJECT NO.	10271-10004

SHEET NAME
ELECTRICAL DETAILS

E-501

Panelboard: SP-R

Location: ROOF
Supply:
Mounting: Surface
Enclosure: NEMA 1

Voltage: 208 V, 3Ø, 4W
Bus Rating: 400 A
Neutral: 100%
Feed-Thru Lugs: No
Features & Modifications: -

Mains Type: MCB
Mains Rating: 400 A
Mains FN/Note: -
SCCR: 10 kA

Ckt	Description	Trip (A)	Poles	FN/Note	Phase A...		Phase B...		Phase C...		FN/Note	Poles	Trip (A)	Description	Ckt
1					--	--									2
3	SPACE	--	3	--			--	--			--	3	--	SPACE	4
5									--	--					6
7	*SPACE*	--	1	--	--	--					--	1	--	*SPACE*	8
9	RTU-9	25	2				1560	--			--	1	--	*CIRCUIT 2*	10
11									1560	1040		2	15	*DAIKIN-CU*	12
13					3603	1040									14
15	RTU-1	50	3				3603	1144				2	25	CU-1/UV-1	16
17									3603	1144					18
19					3603	4119									20
21	RTU-2	50	3				3603	4119				3	50	RTU-7	22
23									3603	4119					24
25					3603	3350									26
27	RTU-3	50	3				3603	3350				3	50	RTU-8	28
29									3603	3350					30
31					3350	3603									32
33	RTU-4	50	3				3350	3603				3	50	RTU-10	34
35									3350	3603					36
37					4119	3603									38
39	RTU-5	50	3				4119	3603				3	50	RTU-11	40
41									4119	3603					42
43					3350	2438									44
45	RTU-6	50	3				3350	2438				3	35	RTU-12	46
47									3350	2438					48
49	CT-1	100	3	2 ADD	7205	540						1	20	**RECPT EAST**	50
51							7205	540				1	20	**RECPT WEST**	52
53									7205	180		1	20	**HEAT TAPE**	54
					Connected Load:		47 kVA		49 kVA						
					Connected Current:		396 A		412 A						

Load Classification	Connected	Factor	Demand
Other	145326 VA	100.00%	145326 VA
Receptacle - General	1260 VA	100.00%	1260 VA

2 ADD

Panel Totals	
Connected Load:	146 kVA
Connected Current:	407 A
Demand Load:	146 kVA
Demand Current:	407 A

Notes:
1. NOT ALL CIRCUITS COULD BE IDENTIFIED BY VISUAL INSPECTION OR PANEL SCHEDULE. EC TO TRACE EXISTING CIRCUITS, REWIRE TO PANEL AND CREATE UPDATED PANEL SCHEDULE.

MOTOR AND EQUIPMENT SCHEDULE

KEY NOTES:
A. START-STOP PUSH BUTTON
B. AUTO-OFF-HAND SELECTOR SWITCH ON DOOR
C TWO SPEED SELECTOR SWITCH 'HI-OFF-LO'
TWO SPEED STARTER
D. OFF-AUTO SELECTOR SWITCH ON DOOR
G. GREEN PILOT LIGHT ON DOOR
R. RED PILOT LIGHT ON DOOR
FT. CONTROL CIRCUIT TRANSFORMER

NOTES: EQUIPMENT TAGS NOTED AS ##/## ARE WIRED TO SAME CIRCUIT. AMPACITY SHOWN IS TOTAL CIRCUIT AMPS.

STARTER/DISCONNECT
E-FURNISHED BY ELECTRICAL CONTRACTOR
M-FURNISHED BY MECHANICAL CONTRACTOR

EQUIP TAG	DESCRIPTION	AMP	VOLTAGE	# OF POLES	WIRE SIZE	CONDUIT	PANEL/MCC	MOCP	STR	DISC	SW AMPS	FUSE AMPS	NEMA SIZE	KEY NOTES	REMARKS
CT-1	CHILLER TOWER HEATER, SUPPLY FAN AND SPRAY PUMP (2 ADD)	60 A	208 V	3	3-#1, 1-#8	1 1/4''	SP-R	100 A		E	(2 ADD)	60, 30 & 30		(2 ADD)	NEMA 3R DISCONNECTS. THREE ELECTRICAL CONNECTIONS WIRED FROM CONTROL PANEL TO SERVE HEATING ELEMENT, SPRAYER PUMP, AND FAN.
CU-1/UV-1	CONDENSING UNIT	11 A	208 V	2	2-#10, 1-#10	3/4''	SP-R	25 A		E	30				NEMA 3R RATED DISCONNECT
DAIKIN-CU	EXISTING CONDENSING UNIT	10 A	208 V	2	2-#14, 1-#14	3/4''	SP-R	15 A		E	30				NEMA 3R RATED DISCONNECT
DO-2/4	DOOR OPENERS	0 A	120 V	1	1-#12, 1-#12, 1-#12	3/4''	1XL2	20 A							
RTU-1	ROOFTOP UNIT	30 A	208 V	3	3-#4, 1-#6	1''	SP-R	50 A		M					PROVIDED W/ EQUIPMENT
RTU-2	ROOFTOP UNIT	30 A	208 V	3	3-#4, 1-#6	1''	SP-R	50 A		M					PROVIDED W/ EQUIPMENT
RTU-3	ROOFTOP UNIT	30 A	208 V	3	3-#6, 1-#10	1''	SP-R	50 A		M					PROVIDED W/ EQUIPMENT
RTU-4	ROOFTOP UNIT	28 A	208 V	3	3-#6, 1-#10	1''	SP-R	50 A		M					PROVIDED W/ EQUIPMENT
RTU-5	ROOFTOP UNIT	34 A	208 V	3	3-#6, 1-#10	1''	SP-R	50 A		M					PROVIDED W/ EQUIPMENT
RTU-6	ROOFTOP UNIT	28 A	208 V	3	3-#6, 1-#10	1''	SP-R	50 A		M					PROVIDED W/ EQUIPMENT
RTU-7	ROOFTOP UNIT	34 A	208 V	3	3-#6, 1-#10	1''	SP-R	50 A		M					PROVIDED W/ EQUIPMENT
RTU-8	ROOFTOP UNIT	28 A	208 V	3	3-#6, 1-#10	1''	SP-R	50 A		M					PROVIDED W/ EQUIPMENT
RTU-9	ROOFTOP UNIT	15 A	208 V	2	2-#10, 1-#10	3/4''	SP-R	25 A		M					PROVIDED W/ EQUIPMENT
RTU-10	ROOFTOP UNIT	30 A	208 V	3	3-#6, 1-#10	1''	SP-R	50 A		M					PROVIDED W/ EQUIPMENT
RTU-11	ROOFTOP UNIT	30 A	208 V	3	3-#6, 1-#10	1''	SP-R	50 A		M					PROVIDED W/ EQUIPMENT
RTU-12	ROOFTOP UNIT	20 A	208 V	3	3-#8, 1-#10	1''	SP-R	35 A		M					PROVIDED W/ EQUIPMENT

BREAKER FUNCTION SCHEDULE

#	FOR ANY NUMBER, SEE PANEL SCHEDULE FOOTER NOTE
A	ARC-FAULT INTERRUPTER (AFCI) PROTECTION
AR	ARC ENERGY REDUCTION MAINTENANCE SWITCH
D	DEMOLISHED CIRCUIT (NOW SPARE OR SPACE) {FORMER CIRCUIT IN BRACKETS}
E	EXISTING TO REMAIN CIRCUIT
EM	PROVIDE IDENTIFICATION PER NEC 700.12(I)(2)(4)
G	GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION (5 mA)
GE	GROUND-FAULT PROTECTION FOR EQUIPMENT (30 mA)
GF	ADJUSTABLE GROUND-FAULT PROTECTION FOR EQUIPMENT
H	BREAKER HASP TO PREVENT UNINTENTIONAL OPENING
L	LOCKABLE OPEN ACCORDING TO NEC 110.25 (FIRE ALARM OCP TO BE RED)
LSI	LONG-TIME, SHORT-TIME, INSTANTANEOUS ADJUSTMENT
LSIG	LONG-TIME, SHORT-TIME, INSTANTANEOUS AND GROUND-FAULT ADJUSTMENTS
N	NEW CIRCUIT (IN EXISTING PANEL, PREVIOUSLY SPARE OR SPACE)
NB	NEW BREAKER TO REPLACE EXISTING BREAKER OR SPACE (NEW TRIP RATING SHOWN)
NR	NEW CIRCUIT TO REPLACE EXISTING CIRCUIT {FORMER CIRCUIT IN BRACKETS}
R	RELOCATED CIRCUIT
S	SWITCH-RATED PER NEC 240.83(D)
SH	SHUNT TRIP BREAKER

ELECTRICAL KEYED NOTES (MASTER)

E1	REMOVE EXTERIOR CONDUIT, JUNCTION BOXES, CAMERAS, AND ANY OTHER COMPONENTS AFFECTED BY SOFFIT REPLACEMENT DEMOLITION. COORDINATE WITH OTHER TRADES TO AVOID DISRUPTIONS AND DOWNTIME. CARE SHALL BE TAKEN TO REINSTALL COMPONENTS TO THEIR INITIAL WORKING CONDITION. OWNER MUST BE NOTIFIED OF ANY DISRUPTION TO CAMERAS AND POTENTIAL DOWNTIME OF ANY SECURITY DEVICES. SEE DETAIL 2|ED101 FOR AN EXAMPLE OF EXTERIOR ROUTED CONDUIT. BRING ANY OTHER POTENTIAL CONFLICTS TO THE ATTENTION OF ENGINEER PRIOR TO WORK.
E2	REMOVE EXISTING DOWNLIGHTS IN SOFFIT. EXISTING CONDUCTORS SHALL BE RE-USED. REPLACE WITH NEW FIXTURE AS SHOWN ON SHEET E-110.
E3	REMOVE EXISTING CARD READER AND TURN OVER TO OWNER. PROTECT WIRING FROM ELEMENTS UNTIL NEW READER IS INSTALLED.
E4	DEMO EXISTING SATELLITE ANTENNA TOWER AND ALL ASSOCIATED CABLING AND POWER INJECTORS CONNECTED TO IT. CONTRACTOR TO SEAL ALL PENETRATIONS AFTER TOTAL REMOVAL OF WIRING.
E5	EXISTING DAIKIN MINI-SPLIT CONDENSING UNIT (CU) TO BE REUSED. REMOVE CU AND ANY PIPING, POWER, CONTROLS FOR ROOF REPLACEMENT. PROTECT EQUIPMENT FOR REINSTALLATION AND REUSE.
E6	EXISTING ROOF EXHAUST FANS (EF) TO BE REUSED. REMOVE EF AND POWER, CONTROLS FOR ROOF REPLACEMENT. PROTECT EQUIPMENT FOR REINSTALLATION AND REUSE.
E7	DEMO OF EXISITING ROOFTOP UNITS SHALL CONSIST OF REMOVAL OF THE EQUIPMENT, CURBS, PIPING CONNECTIONS, POWER AND ASSOCIATED WIRING, AND CONTROLS AND ASSOCIATED WIRING.
E8	DEMO OF EXISTING COOLING TOWER (EVAPORATIVE COOLER) SHALL CONSIST OF REMOVAL OF THE EQUIPMENT, ALL EQUIPMENT SUPPORTS, ALL PIPING AND INSULATION, POWER CONNECTIONS AND ASSOCIATED WIRING, AND CONTROLS AND ASSOCIATED WIRING.
(2 ADD) E9	BRING 100A 208V 3Ø CIRCUIT TO COOLING TOWER CONTROL PANEL. CONTROL PANEL TO HAVE INTEGRAL 100A MAIN CIRCUIT BREAKER. WIRE EACH OF THE SUPPLY FAN, HEATER, AND SPRAY PUMP FROM THE CONTROL PANEL TO A FUSED DISCONNECT, 60A, 30A AND 30A RESPECTIVELY. CONTROL PANEL AND DISCONNECT LOCATIONS ARE SHOWN FOR DIAGRAMMATIC PURPOSED ONLY. PLEASE COORDINATE FINAL LOCATIONS IN THE FIELD AND FOLLOW MANUFACTURER RECOMMENDATIONS.

COPPER FEEDER & BRANCH CIRCUIT SCHEDULE

RATING (SEE NOTE A)	PHASE CONDUCTORS & NEUTRAL	EQUIPMENT GROUNDING CONDUCTOR	CONDUIT SIZE FOR 4W	CONDUIT SIZE FOR 2W OR 3W
15	12	12	3/4"	3/4"
20	12	12	3/4"	3/4"
25	10	10	3/4"	3/4"
30	10	10	3/4"	3/4"
35	8	10	1	3/4"
40	8	10	1	3/4"
45	8	10	1	3/4"
50	8	10	1	3/4"
60	6	10	1	1
70	4	8	1 1/4"	1
80	4	8	1 1/4"	1
90	3	8	1 1/4"	1 1/4"
100	3	8	1 1/4"	1 1/4"
110	2	6	1 1/2"	1 1/4"
125	1	6	2"	1 1/2"
150	1/0	6	2"	1 1/2"
175	2/0	6	2"	2"
200	3/0	6	2 1/2"	2"

COPPER FEEDER & BRANCH CIRCUIT SCHEDULE NOTES:

A. UNLESS SPECIFICALLY NOTED OTHERWISE, THIS SCHEDULE APPLIES TO ALL ONE-LINE DIAGRAMS, PANEL SCHEDULES, AND EQUIPMENT CONNECTIONS SCHEDULES. A FEEDER OR BRANCH CIRCUIT RATING SHALL BE EQUAL TO THE SPECIFIED RATING OF ITS CORRESPONDING OCPD (OVERCURRENT PROTECTION DEVICE), UNLESS SPECIFICALLY NOTED OTHERWISE. RATINGS FOR EQUIPMENT CONNECTIONS SCHEDULES ARE NOTED IN THE "FEEDER RATING" COLUMN. THE TERM "RATING" IS NOT NECESSARILY SYNONYMOUS WITH "CURRENT-CARRYING CAPACITY" AND IS INTENDED SOLELY TO IDENTIFY PARTICULAR FEEDER SPECIFICATIONS.

B. VALUES IN PARENTHESES INDICATE THE QUANTITY OF PARALLEL SETS IN SEPARATE CONDUITS.

C. IF A FEEDER OR BRANCH CIRCUIT RATING EXCEEDS THAT OF IT CORRESPONDING OCPD, THEN ITS EQUIPMENT GROUNDING CONDUCTOR MUST BE INCREASED PROPORTIONALLY CROSS-SECTIONAL AREA TO THAT OF THE PHASE CONDUCTORS. THEREFORE, THE EQUIPMENT GROUNDING CONDUCTOR SIZE INDICATED IN THIS SCHEDULE SHALL APPLY ONLY IF IT IS NOT SPECIFICALLY NOTED OTHERWISE ON THE PLANS, ONE-LINE DIAGRAMS, OR EQUIPMENT CONNECTIONS SCHEDULES.

D. A FEEDER RATING CAN BE SPECIFIED LESS THAN ITS ASSOCIATED OCPD WHEN IT SERVES A MOTOR LOAD WITH DEDICATED OVERLOAD PROTECTION AND ITS BREAKER IS "OVERSIZED" TO ALLOW FOR INCREASED STARTING CAPACITY (IN RUSH CURRENT).

E. WIRE SIZES ARE BASED ON N.E.C. TABLE 310.15(8)(16) FOR COPPER. THHN/THWN. 75-DEG C.CONDUIT SIZES ARE BASED ON TABLES IN N.E.C: "ANNEX C" THAT ARE APPLICABLE FOR RACEWAY TYPES SPECIFIED UNDER SECTION 260533 "RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS".

AXIOM CONSULTANTS
A RUEKERT & MIELKE COMPANY

511 CAPITOL STREET BUILDING
STABILIZATION PROJECT
511 S CAPITOL ST.
IOWA CITY, IA, 52240

ISSUED FOR
PERMITTING DOCUMENTS

DESCRIPTION	DATE
ADDENDUM 02	12/02/2025

DATE 10/10/25
DRAWN BY DMS
CHECKED BY KDM
PROJECT NO. 10271-10004
SHEET NAME
ELECTRICAL SCHEDULES

NOT FOR CONSTRUCTION

E-601