312 PLUM ST., SUITE 700
CINCINNATI, OH 45202
(513) 381-2112

April 7, 2025

ADDENDUM NO. 2
(4 Pages of text, 10 pages of attachments / Total = 14 Pages)

TO THE DRAWINGS, SPECIFICATIONS AND CONTRACT DOCUMENTS FOR:

Fairfield County
Sheridan Center Renovations - Phase1
Comm. No. 2024149.01

Board of Commissioners of Fairfield County Ohio
210 E Main St.,
Lancaster OH 43130

PREBID REQUEST FOR INFORMATION

1. Please specify the depths and locations of the existing sanitary piping to be removed. This information is critical for determining the extent of slab removal and replacement.

   Answer: The underground sanitary depths are unknown. A plumbing demolition sheet P010 is added to identify locations where plumbing fixtures are demolished and where sanitary needs to be capped below the floor.

2. Which panels are RTU-1, RTU-2, RTU-4 and RTU-5 fed from? The panel schedule for Panelboard "DP" only shows RTU-4 and the one-line diagram only shows RTU-2 being fed from Panelboard "DP".

   Answer: RTU-1, RTU-2, RTU-4, and RTU-5 to be fed from panelboard "DP".

3. Will all four of the existing electrical panels, the associated conduit and wire, the disconnect for the X-Ray machine and its associated conduit and wire be removed by the owner's demolition crew

   Answer: The owners demolition contractor has removed (3) existing electrical panels and the disconnect for the X-Ray machine and the associated conduit and wire. The existing electrical panel adjacent to Door 1103A remains and feeds existing equipment.

4. Sheet E001 lists drawing T001 Technology Details, but it was not included in the drawing set. Please provide this drawing

   Answer: Refer to Division 27 Specifications

5. Tissue Dispensers (2 & 2a)- Specs call out the same product. Drawing shows different designs.

   Answer: Refer to attached Sheet A101. The drawings have been updated to match the specifications. TBA Item 2A has been removed from the drawings.

6. Fire Extinguishers wall bracket (FE) & Cabinet mounted (FEC) shows height mounted on page 3 of drawings but nowhere does it show quantities or locations.

   Answer: Refer to attached Sheet G101 for FEC locations

7. Mop & Broom (TBA-13) and Robe Hook (TBA-17) are shown in the specs but no where listed on drawings.

Answer: Refer to attached Sheet A101. Mop and Broom Holder has been added in Storage 1112. Coordinate final location with owner. Robe Hook shown in the specifications for reference only.

8. Is LV Cabling to be by GC or the owner-contracted low voltage vendor?

Answer: LV Cabling to be provided by GC. Coordinate exact scope with owner.

9. Will conduit, wire, and existing panelboards BA, BB, & X-RAY already be demoed back to load side of disconnect during demolition or will this be in the electrical contractor's scope of work.

Answer: Demolition of electrical panels and infrastructure within project scope is to be done by EC as identified on electrical drawings.

10. If a 400-amp service is required as shown on contract document E601, then a CT cabinet will also need to be installed. Please advise.

Answer: The Design intent is to install a high-capacity meter. Coordinate exact installation requirements with the utility company.

11. Is Potter or FireLite an acceptable equipment manufacturer for use on the fire alarm system?

Answer: Potter and FireLite are acceptable equipment manufacturers for fire alarm systems.

12. What model is the exiting RTU-2?

Answer: The existing RTU-2 is a Trane WSC060H3 packaged heat pump unit manufactured in 2021.The existing unit will remain in place and serve the front conference rooms and entry.

13. Are RTU-4 and RTU-5 the same model? If so, can we use the same curb?

Answer: The models are from the same line of RTU with the same capacities but there is a drastic age difference. RTU-4: Trane WSC060E3 packaged heat pump unit manufactured in 2016.RTU-5: Trane WCC060F3 packaged heat pump unit manufactured in 1995.

14. Please confirm there are a total of (2) RTUs to be removed, and (1) new RTU.
Answer: A total of (3) RTU's will be removed from the roof and scrapped (all manufactured in 1995). One RTU (RTU-4) will be removed and reinstalled to replace the much older RTU-5. One new RTU (RTU-2) will be added to service the large conference area and stage.

SPECIFICATIONS

1. SECTION 23 74 16.13 Packaged, Large-Capacity, Rooftop Air-Conditioning Units (Not Re-Issued):

- Add Valent to the approved manufacturers.
- Add subparagraph 2.16 GAS FURNACES

A. Description: Factory assembled, piped, and wired; complying with ANSI Z21.47/CSA 2.3 and NFPA 54.

B. CSA Approval: Designed and certified by and bearing label of CSA.

C. Burners: Stainless steel.

1.) Stages: 2.

2.) Fuel: Natural gas.

3.) Ignition: Electronically controlled electric spark or hot-surface igniter with flame sensor.

4.) Gas Control Valve: Modulating.

5.) Gas Train: Single-body, regulated, redundant, 24-V ac gas valve assembly containing pilot solenoid valve, pilot filter, pressure regulator, pilot shutoff, and manual shutoff.

D. Heat-Exchanger and Drain Pan: Stainless steel.

E. Venting, Gravity: Gravity vented.

F. Safety Controls:

1.) Gas Manifold: Safety switches and controls complying with ANSI standards.

2. SECTION 27 24 23 (Not Re-Issued):

A. Paragraph 2.1 - A design basis conference room television shall be changed from interactive to non-interactive such as Viewsonic CDE6530 or equivalent by Sharp, Newline, or Cleartouch.

3. SECTION 27 24 23 (Not Re-Issued):

A. Delete paragraph 2.2

4. SECTION 27 11 16 (Not Re-Issued):

A. Delete paragraph 2.3

DRAWINGS

1. SHEET G101 – Code Data Sheet (Re-Issued):

A. Added (4) Fire Extinguisher Cabinets. Provide one fire extinguisher per cabinet.

2. SHEET A101 – First Floor Plan (Re-Issued):

A. Updated Toilet and Bath Accessories.

3. SHEET P010 – First Floor Plumbing Demolition Plan (New):

A. Issue new sheet to clarify plumbing demolition showing locations where underground sanitary to be capped below floor.

B. Remove Keynote PD11 and replace with PD3

4. SHEET P100 – Plumbing First Floor Plan (Re-Issued):

A. Plumbing Roof Plan View 2/P100 added to show gas pipe scope.

B. Gas Equipment Connection Detail View 3/P100 added.

C. Gas Piping Schematic View 4/P100 added.

D. Keynotes P24 and P68 added.

E. 2” vent pipe added to MB-1 located in 1112 Storage.

F. Locations to underground sanitary tie in points have been modified.

G. Remove new floor drain for 1104 AV Room

5. SHEET P400 – Plumbing Isometrics (Re-Issued):

A. Waste and Vent Isometric revised to show new plumbing vent and underground sanitary tie in points

B. Remove new floor drain for 1104 AV Room

6. SHEET E001 – Electrical Legends (Re-Issued):

A. Updated Light Fixture Schedule with alternate manufacturers.

B. Revised L10 Light Fixture with updated basis of design fixture.

C. Updated T10 Light Fixture information.

D. Revised Mechanical Equipment schedule with updated RTU-4 information.

E. Removed ductless split unit from schedule.

7. SHEET E011 – Electrical Demolition Plans (Re-Issued):

A. Revised roof demolition plan for clarity of demolished mechanical units.

B. Added keynotes ED7, ED8, ED9.

8. SHEET E201 – Electrical Power Plans (Re-Issued):

A. Revised roof power plan for clarity of demolished mechanical units.
B. Added relocated RTU.
C. Added keynotes EP5, EP6.

9. SHEET E401 – Electrical Alternate Plans (Re-Issued):

A. Updated alternate light fixture schedule with approved manufacturers.

10. SHEET E601 – Electrical Single Line Diagram and Panel Schedules (Re-Issued):

A. Updated Single Line Diagram with revised RTU-2 feeder.
B. Revised Electrical Service Calculations with updated load information.
C. Revised panel schedule 'DP' with updated RTU-2 load and breaker.
D. Added RTU-4, RTU-5, and RTU-1 to panel schedule 'DP'.
E. Removed ductless split unit from panel schedule 'DP'
F. Removed rooftop receptacle from panel schedule 'P10'.

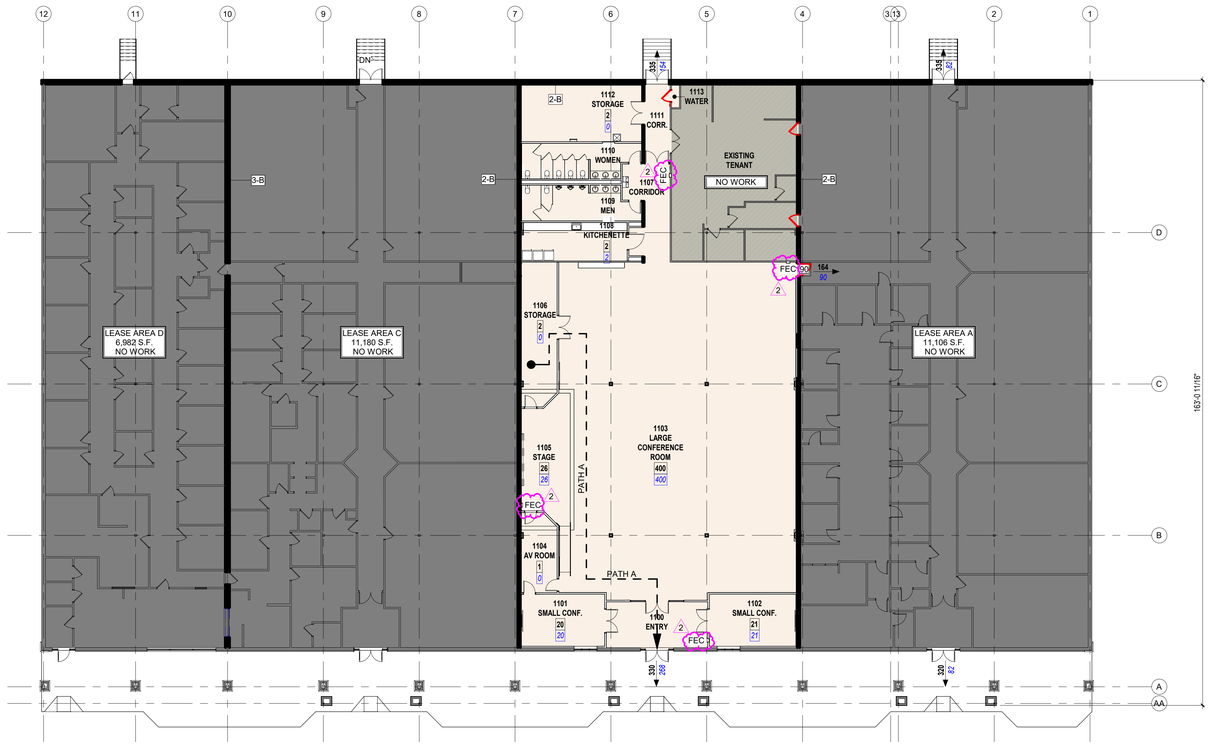
End of Addendum No. 2

ATTACHMENTS

SHEET G101 – Code Data Sheet
SHEET A101 – First Floor Plan
SHEET P010 – Plumbing First Floor Demolition Plan
SHEET P100 – First Floor Plumbing Plan
SHEET P400 – Plumbing Isomterics
SHEET E002 – Electrical Legends
SHEET E011 – Electrical Demolition Plans
SHEET E201 – Electrical Power Plans
SHEET E401 – Electrical Alternate Plans
SHEET E601 – Electrical Single Line Diagram and Panel Schedules

ROOM AND OCCUPANT DATA

NUMBER	NAME	USE GROUP	AREA	TYPE	AREA PER OCCUPANT	OCCUPANT LOAD DESIGN LOAD	OCCUPANT LOAD ACTUAL LOAD	NOTES
1101	SMALL CONF.	A-3	189 SF	NET	15 SF	20	20	
1102	SMALL CONF.	A-3	303 SF	NET	15 SF	21	21	
1103	LARGE CONFERENCE ROOM	A-3	5216 SF	NET	15 SF	400	400	
1104	AV ROOM	A-3	186 SF	GROSS	300 SF	1	0	
1105	STAGE	A-3	378 SF	NET	15 SF	26	26	
1106	STORAGE	A-3	341 SF	GROSS	300 SF	2	0	
1108	KITCHENETTE	A-3	274 SF	GROSS	200 SF	2	2	
1112	STORAGE	A-3	478 SF	GROSS	300 SF	2	0	
FIRST FLOOR						474	469	



1 G101 CODE PLAN
1/16" = 1'-0"

CODE DATA KEY

000 / 000 — EGRESS CAPACITY CALCULATED AT 0.3" PER OCCUPANT (STAIRS) AND 0.2" PER OCCUPANT (OTHER EGRESS ELEMENTS)
ACTUAL LOAD THROUGH EXIT

101 / Name / XXXX / XXXX — DESIGN OCCUPANT LOAD PER OBC TABLE 1004.5 OR MAXIMUM ANTICIPATED OCCUPANT LOAD
ACTUAL OCCUPANT LOAD - BASED ON ACTUAL OCCUPANTS IN EACH ROOM OR SPACE, USED TO DETERMINE PLUMBING FIXTURE REQUIREMENTS AS PERMITTED IN 2902.1 AND HVAC LOADS AS PERMITTED IN ASHRAE 62.1, TABLE 6-1.

CODE DATA PLAN WALL AND DOOR TAG KEY

SOLID BLACK FILL INDICATES FIRE- OR SMOKE-RESISTANCE RATED CONSTRUCTION

FIRE RESISTANCE RATING (HRS) OR SMOKE (S)
2-W
W = WALL
B = FIRE OR SMOKE BARRIER
P = FIRE OR SMOKE PARTITION

DOOR FIRE RESISTANCE RATING (MIN) OR SMOKE (S)
90
TRAVEL DISTANCE PATH

EGRESS TRAVEL DISTANCE

PATH	DISTANCE	PATH TYPE
A	123'-3"	MAX. TRAVEL DISTANCE

LIFE SAFETY PLAN SYMBOL KEY

FEC — FIRE EXTINGUISHER CABINET
FE — FIRE EXTINGUISHER

2

PLUMBING FIXTURE REQUIREMENTS

BUILDING OCCUPANTS: 469 OCCUPANTS (Actual Load)

		M	F
		235	235
Water Closets:			
A (Gym)	1: 125M 1: 65F -- 469 OCCUPANTS	1.88	3.62
	Required	2	4
	Actual Water Closets Provided	**2**	**5**
	Actual Urinals Provided	**3**	**-**
	TOTAL PROVIDED	**5**	**5**
Lavatories:			
A (Gym)	1: 200M 1: 200F -- 469 OCCUPANTS	1.18	1.18
	Required	2	2
	TOTAL PROVIDED	**3**	**3**
Showers:			
A (Gym)	Not Required by Code	-	-
	Required	-	-
	TOTAL PROVIDED	**0**	**0**
Drinking Fountains:			
A (Gym)	1: 500 RATIO -- 469 OCCUPANTS	0.94	
	2 is the minimum per OPC 410.3.1 ** Required	2	
	TOTAL PROVIDED	**2**	
Service Sinks:			
	Required	1	
	TOTAL PROVIDED	**1**	

Plumbing Area P1

CODE DATA:

BUILDING - 2024 OHIO BUILDING CODE
COMPLIANCE PATH TO FOLLOW 2024 OEBC CHAPTER 8 & CHAPTER 10
MECHANICAL - 2024 OHIO MECHANICAL CODE
ELECTRICAL - 2023 NEC
PLUMBING - 2024 OHIO PLUMBING CODE
FIRE - 2017 OHIO FIRE CODE (2015 IFC)
ACCESSIBILITY - 2009 ANSI A117.1 WITH CH. 11 OF THE OBC

EXISTING BUILDING INFORMATION:

CONSTRUCTRON TYPE: IIB (PER OBC SECTION 602)

FIRE PROTECTION: PROVIDED IN A-3 OCCUPANCY (PER OEBC 1011.2.1 AND OBC 903.2)

FIRE ALARM: PROVIDED IN A-3 OCCUPANCY (PER OEBC 1011.2.2 AND OBC 907.2)

FIRE-RATED CONSTRUCTION: FIRE BARRIER 2 HR. (PER OBC TABLE 508.4 & TABLE 707.3.1)
- SEPARATES A-3 FORM B OCCUPANCY

USE GROUP: RENOVATION AREA - A-3 (PER OBC SECTION 303)
EXISTING UNCHANGED - B (PER OBC SECTION 303)
MIXED USE, SEPARATED (PER OBC ARTICLE 508.4)

ALLOWABLE HEIGHT: 55' (3) STORIES (PER OBC TABLES 504.3 & 504.4)

EXISTING HEIGHT: 26' (1) STORY

ALLOWABLE AREA: RENOVATIONS AREA: A-3 OCCUPANCY
A-3 38,000 S.F. (PER OBC TABLE 506.2)
A-3 7,125 S.F. FRONTAGE INCREASE (PER OBC TABLE 506.3.3)
A-3 45,125 S.F.

EXISTING UNCHANGED: B OCCUPANCY
B 23,000 S.F. (PER OBC TABLE 506.2)
B 17,250 S.F. FRONTAGE INCREASE (PER OBC TABLE 506.3.3)
B 40,250 S.F.

ACTUAL BUILDING AREA: A-3: 10,716 S.F.
B: 29,268 S.F.
39,984 S.F. TOTAL BUILDING AREA

ALLOWABLE AREA SEPARATED OCCUPANCIES: 10,716 ÷ 29,268 = .96 ≤ 1 (PER OBC SECTION 508.4.2)
45,125 40,250

EXITS: BUILDING: 3 REQUIRED (PER OBC TABLE 1006.3.3)
8 PROVIDED
RENOVATION AREA: 2 REQUIRED (PER OBC TABLE 1006.3.3)
3 PROVIDED

RENOVATION AREA INFORMATION:

OCCUPANCY TYPE: A-3

RENOVATION AREA: 9,172 SF

MEANS OF EGRESS: 0.2 INCHES PER OCCUPANT (PER OBC TABLES 1005.3.2)
REQUIRED NUMBER OF EXITS: 2 PER STORY (PER OBC TABLE 1006.3.3)
EGRESS DOOR WIDTH: 32 INCHES CLEAR MIN. (PER OBC ARTICLE 1010.1.1)
CORRIDOR WIDTH: 44 INCHES MINIMUM (PER OBC TABLE 1020.3)
DEAD END CORRIDORS: 20 FEET MAXIMUM (PER OBC ARTICLE 1020.5)
COMMON PATH OF EGRESS: 75 FEET MAXIMUM (PER OBC TABLE 1006.2.1)
TRAVEL DISTANCE: 250 FEET MAXIMUM (PER OBC TABLE 1017.2)

INTERIOR WALL AND CEILING FINISH REQUIREMENTS [OBC TABLE 803.13]

INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS	CLASS B OR BETTER
CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS	CLASS B OR BETTER
ROOMS AND ENCLOSED SPACES	CLASS C OR BETTER

STATE OF OHIO
BROCK L ROSSEL 1215577
REGISTERED ARCHITECT
BROCK L ROSSEL, Lic# 1215577
Expiration Date 12/31/2025

SHP
512 PLUM STREET, SUITE 700
CINCINNATI, OH 45202 · 513.381.2112

FAIRFIELD COUNTY
SHERIDAN CENTER RENOVATIONS - PHASE 1
1550 SHERIDAN DRIVE, LANCASTER, OH 43130

ISSUANCES

	02-11-25	DESIGN DEVELOPMENT
	03-18-25	BIDPERMIT
2	04-07-25	ADDENDUM 2

CODE DATA SHEET

DATE 03/18/25

COMM NO. 2024149.01

G101

0'-1" REFERENCE LINE

STATE OF OHIO
BROCK L ROSSEL
1215577
REGISTERED ARCHITECT
BROCK L. ROSSEL, Lic# 1215577
Expiration Date 12/31/2025

SHP
312 PLUM STREET, SUITE 700
CINCINNATI, OH 45202 · 513.651.2112

FAIRFIELD COUNTY
SHERIDAN CENTER RENOVATIONS - PHASE 1
1550 SHERIDAN DRIVE, LANCASTER, OH 43130

GENERAL NOTES - FLOOR PLAN

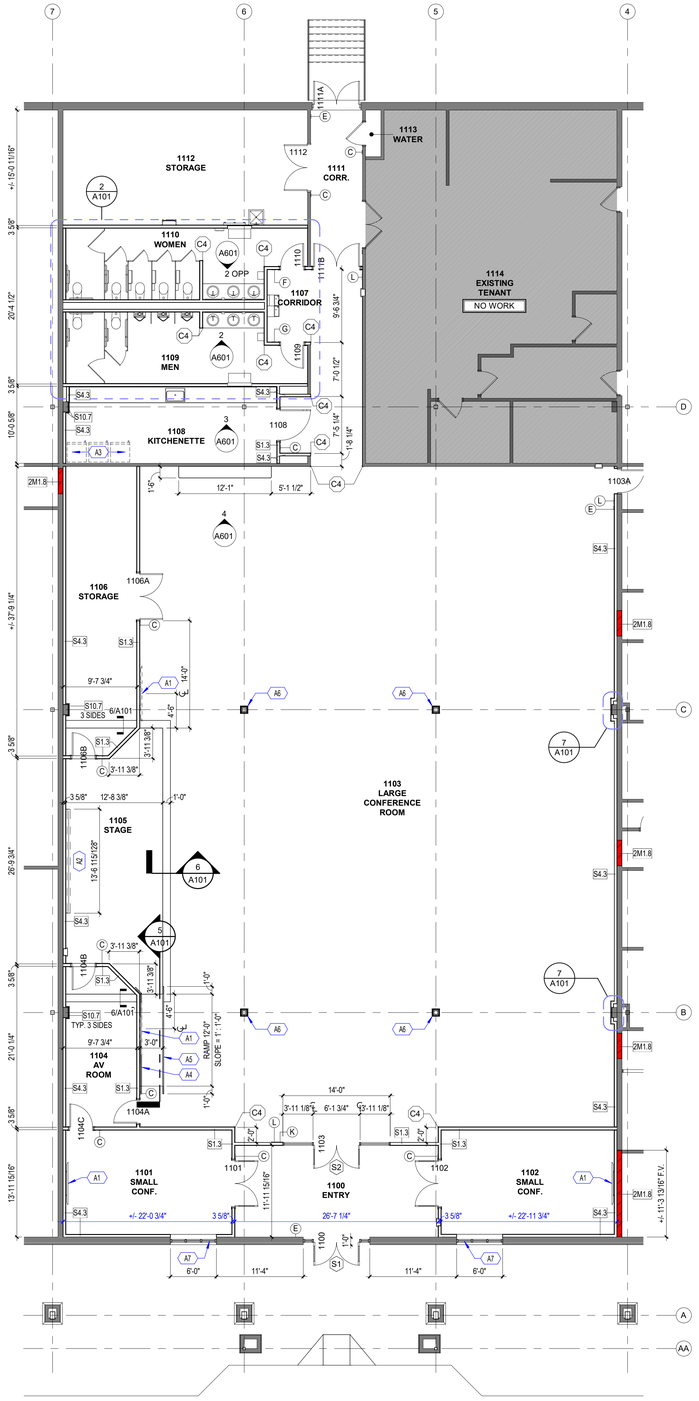
A. SEE A001 FOR SYMBOLS LEGEND.
B. SEE INTERIOR FLOOR PLANS (A600 SERIES) FOR WALL-MOUNTED CASEWORK, EQUIPMENT, AND FURNISHINGS REQUIRING BLOCKING IN PARTITIONS.
C. ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF STUD, OR FACE OF EXISTING FINISH UNLESS NOTED OTHERWISE.
D. TOOTH CMU INTO EXISTING CMU WALLS AT ALL INFILL LOCATIONS

KEY NOTES - FLOOR PLANS

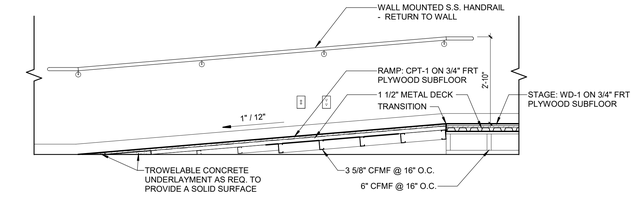
A1	WALL MOUNTED TV MONITOR BY OWNER
A2	WALL MOUNTED PROJECTION SCREEN
A3	REFRIGERATOR BY OWNER
A4	WALL MOUNTED S.S. HANDRAIL W/ #6 POLISH FINE BRUSH FINISH - EXTEND 1'-0" BEYOND TOP AND BOTTOM OF RAMP AND RETURN TO WALL
A5	FLOOR MOUNTED S.S. HANDRAIL W/ #6 POLISH FINE BRUSH FINISH - EXTEND 1'-0" BEYOND TOP AND BOTTOM OF RAMP AND RETURN TO END POSTS
A6	1X PAINTED WOOD COLUMN WRAP OVER 1 5/8" LGMF WITH 1X4 BASE AND TOP TRIM.
A7	ALTERNATE NO. 2: NEW ALUMINUM STOREFRONT. PATCH AND REPAIR EXG. E.I.F.S. FACADE TO MATCH EXG. PROVIDE SOLID SURFACE INTERIOR SILL AND MANUAL ROLLERSHADE.

FLOOR PLAN LEGEND

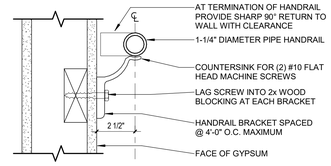
- NO WORK THIS AREA
- NEW WALL/PARTITION
- EXISTING CONSTRUCTION TO REMAIN
- NEW DOOR AS SCHEDULED
- EXISTING DOOR AND FRAME TO REMAIN



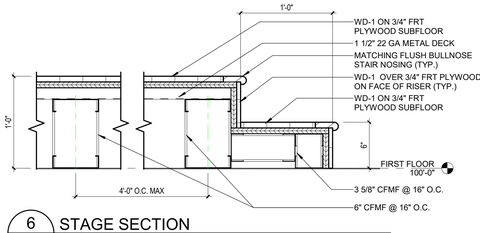
1 A101 FIRST FLOOR PLAN - AREA A
1/8" = 1'-0"



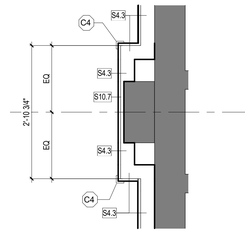
5 A101 RAMP SECTION
1/2" = 1'-0"



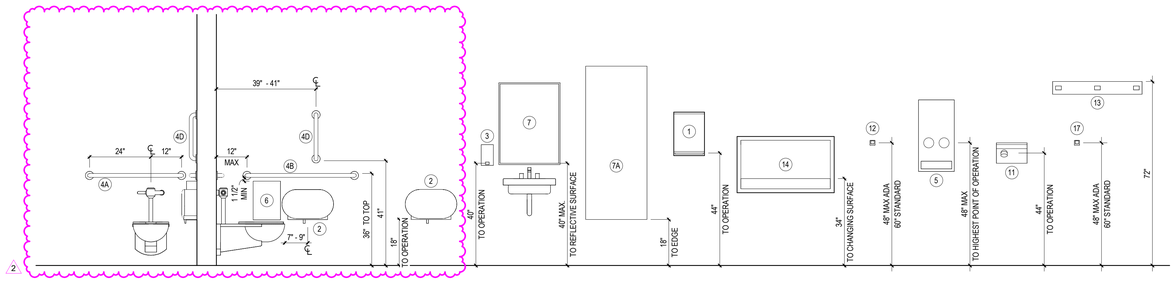
WALL MOUNTED HANDRAIL



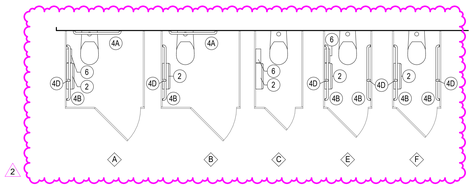
6 A101 STAGE SECTION
1 1/2" = 1'-0"



7 A101 DETAIL
3/4" = 1'-0"



2 MOUNTING HEIGHTS
NTS



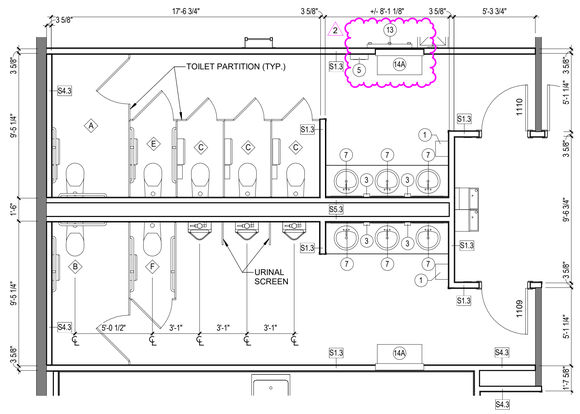
GENERAL NOTES - ENLARGED TOILET ROOM PLANS

A. ALL TOILET FIXTURES AND ACCESSORY DIMENSIONS ARE TO FINISHED FACE OF WALL UNLESS NOTED OTHERWISE.
B. DIMENSIONS TO FIXTURES ARE TO THE CENTERLINE UNLESS NOTED OTHERWISE.

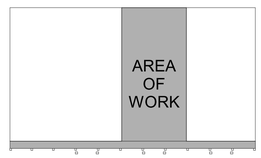
TOILET AND BATH ACCESSORY SCHEDULE

TBA	DESCRIPTION	SIZE/COMMENTS
1	PAPER TOWEL DISPENSER	
2	TOILET TISSUE DISPENSER	
3	SOAP DISPENSER	
4A	GRAB BAR	36in
4B	GRAB BAR	42in
4D	GRAB BAR	18in
5	SANITARY NAPKIN VENDOR	
6	SANITARY NAPKIN DISPOSAL	
7	MIRROR UNIT	BOD: 22" x 34" KOHLER TELLIN
13	BROOM HOLDER	
14A	RECESSED CHANGING TABLE	

TOILET AND BATH ACCESSORY TYPES
NTS



2 A101 ENLARGED RESTROOM PLANS
1/4" = 1'-0"



KEY PLAN
NTS

ISSUANCES		
	02-11-25	DESIGN DEVELOPMENT
	03-18-25	BID/PERMIT
1	04-03-25	ADDENDUM 1
2	04-07-25	ADDENDUM 2

FIRST FLOOR PLAN

DATE 03/18/25

COMM NO. 2024149.01

A101

0'-1" REFERENCE LINE

PLUMBING DEMOLITION NOTES

A. DRAWINGS BASED ON FIELD OBSERVATIONS AND EXISTING DRAWINGS. NOTIFY CONSTRUCTION MANAGER OF DISCREPANCIES DUE TO ACTUAL FIELD CONDITIONS BEFORE PROCEEDING.

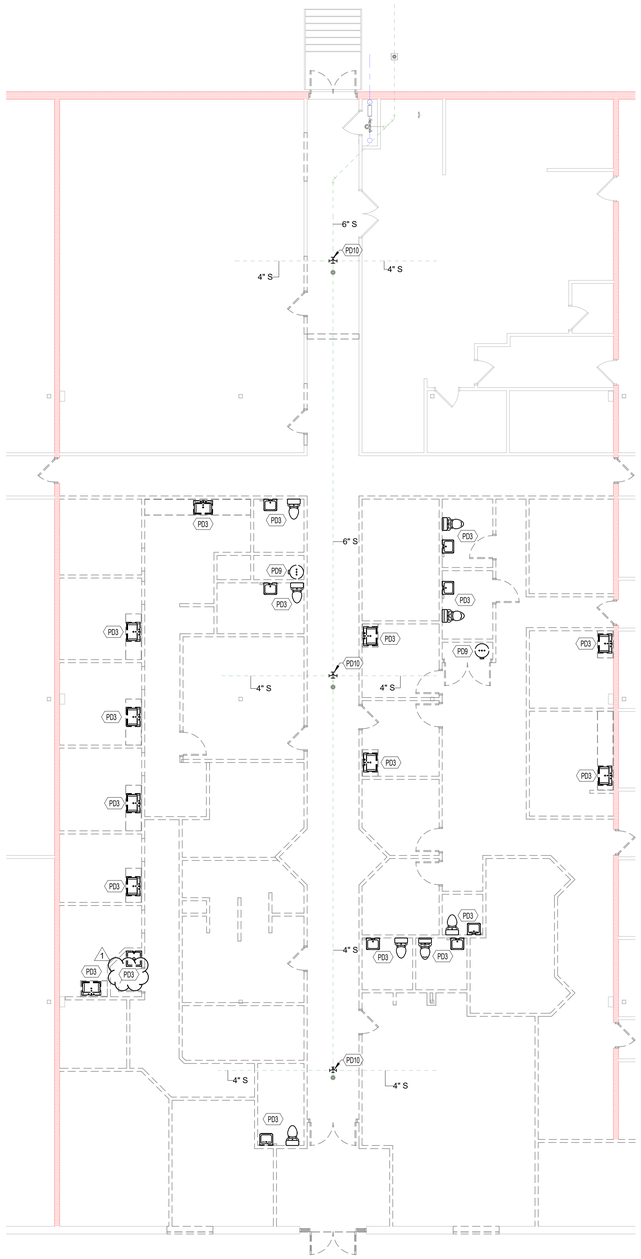
B. PIPING, FIXTURES, AND EQUIPMENT DENOTED BY BOLD, DASHED LINE TYPE GENERALLY INDICATES WORK TO BE DEMOLISHED. REFER TO DRAWING NOTES AND KEYNOTES FOR FULL EXTENT OF ASSOCIATED DEMOLITION WORK AND ITEMS TO REMAIN.

C. ALL EXISTING DOMESTIC HOT AND COLD WATER MAINS AND BRANCHES IN THE DESIGNATED WORK AREA(S) SHALL BE DEMOLISHED UNLESS OTHERWISE NOTED. PLUMBING WITHIN EXISTING WALLS AND CHASES SHALL ALSO BE EXISTING TO REMAIN.

D. ALL EXISTING UNDERGROUND SANITARY SHALL BE EXISTING TO REMAIN. PLUMBING WITHIN EXISTING INTO REMAIN WALLS AND CHASES SHALL ALSO BE EXISTING TO REMAIN. FOR ABOVEGROUND DEMOLISHED SANITARY WASTE PIPING, CAP OPEN ENDS BELOW SLAB AND PATCH FLOOR TO MATCH EXISTING CONDITIONS.

KEYNOTES

PD3	FIXTURE(S) AND ABOVEGROUND SUPPLY AND WASTE PIPING IN THIS AREA TO BE DEMOLISHED. CAP SANITARY BELOW FLOOR AND PATCH TO MATCH EXISTING.
PD9	EXISTING WATER HEATER AND ASSOCIATED PIPING TO BE DEMOLISHED.
PD10	REMOVE EXISTING UNDERGROUND SANITARY CROSS AND REPLACE WITH A DOUBLE TEE WYE. CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF INVERT.



1 P010 FIRST FLOOR PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

STATE OF OHIO
RONALD B. COBB
E-73942
REGISTERED
PROFESSIONAL ENGINEER

SHP
312 PLUM STREET, SUITE 700
CINCINNATI, OH 45202 · 513.381.2112

FAIRFIELD COUNTY
SHERIDAN CENTER RENOVATIONS - PHASE 1
1550 SHERIDAN DRIVE, LANCASTER, OH 43130
SCHOOL DISTRICT
School District ADDRESS

ISSUANCES

1	04-07-25	ADDENDUM 2

PLUMBING
FIRST FLOOR
DEMO PLAN

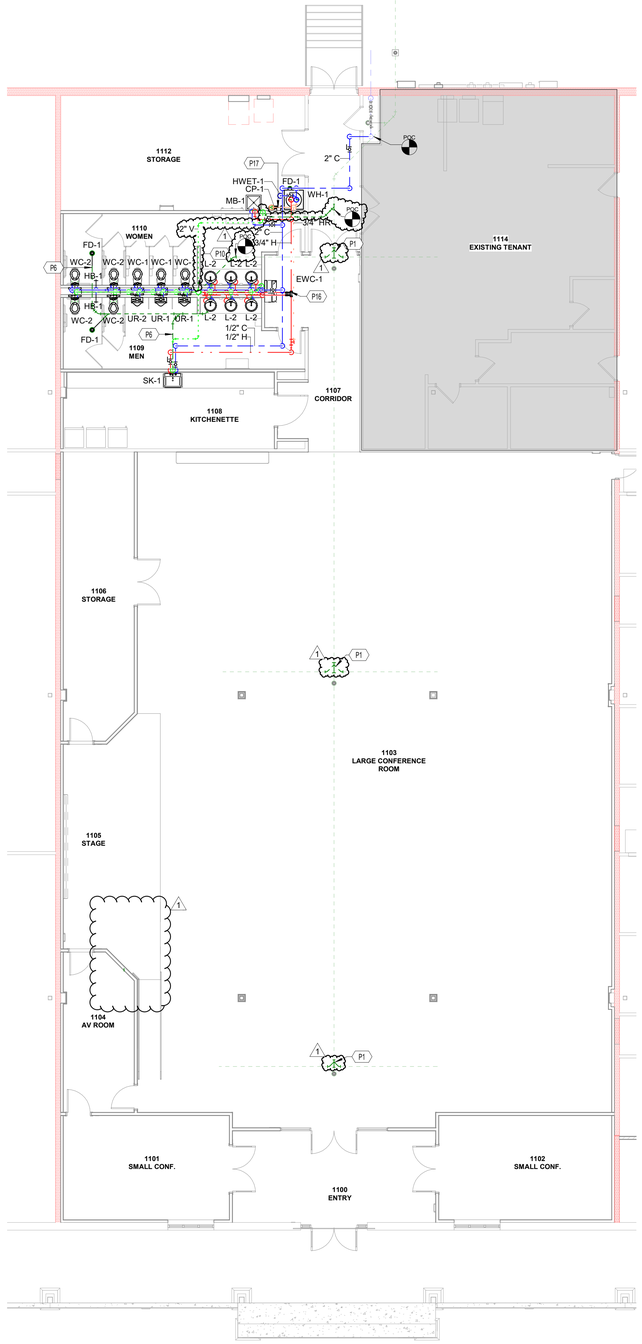
DATE 03/18/25

COMM NO. 2024149.01

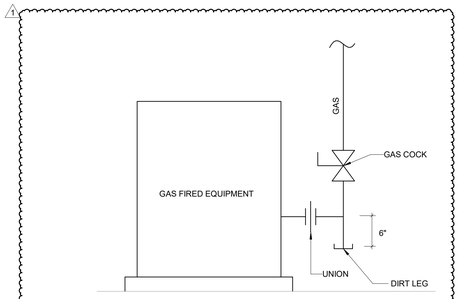
P010

0'-1" REFERENCE LINE

4/7/2025 5:16:39 PM C:\Users\cmilner\Documents_LFile2520241149.01_MEP-Fairfield County-Sheridan Ctr Reno Ph1_cmilnerVKE94.rvt



1 FIRST FLOOR PLUMBING PLAN
P100 1/8" = 1'-0"



3 GAS EQUIPMENT CONNECTION DETAIL
P100

SUPPORT OF GAS PIPING

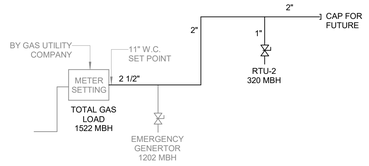
STEEL PIPE, NOMINAL SIZE OF PIPE (INCHES)	SPACING OF SUPPORTS (FEET)
1/2	6
3/4 TO 1	8
1 1/4 OR LARGER (HORIZONTAL)	10
1 1/4 OR LARGER (VERTICAL)	EVERY FLOOR LEVEL

GAS PIPE DESIGN:
BUILDING SERVICE

TYPE OF GAS: NATURAL GAS
PIPE MATERIAL: SCHEDULE 40 STEEL
DELIVERY PRESSURE: 11 INCHES W.C.
PRESSURE DROP: 3.0 INCHES W.C.
LENGTH OF LONGEST RUN: 250 ft.

PIPE SIZE	CAPACITY (MBH)
3/4"	167
1"	315
1 1/4"	648
1 1/2"	971
2"	1670
2 1/2"	2982
3"	5273
4"	10760

CALCULATED PER 2015 INTERNATIONAL FUEL GAS CODE, 402.4 EQUATION 4-1 (FOR HIGH PRESSURE) IN ACCORDANCE WITH 402.4.3 HYBRID PRESSURE METHOD



4 GAS PIPING SCHEMATIC
P100

KEYNOTES

P1 REMOVE EXISTING UNDERGROUND SANITARY CROSS AND REPLACE WITH A DOUBLE TEE WYE.

P6 EXISTING FLOOR TO BE SAW CUT FOR INSTALLATION OF NEW SANITARY WASTE PIPING. PATCH FLOOR TO MATCH EXISTING CONDITONS PER DETAIL 8/P000.

P10 3" VENT THRU ROOF. REFER TO DETAIL 5/P000.

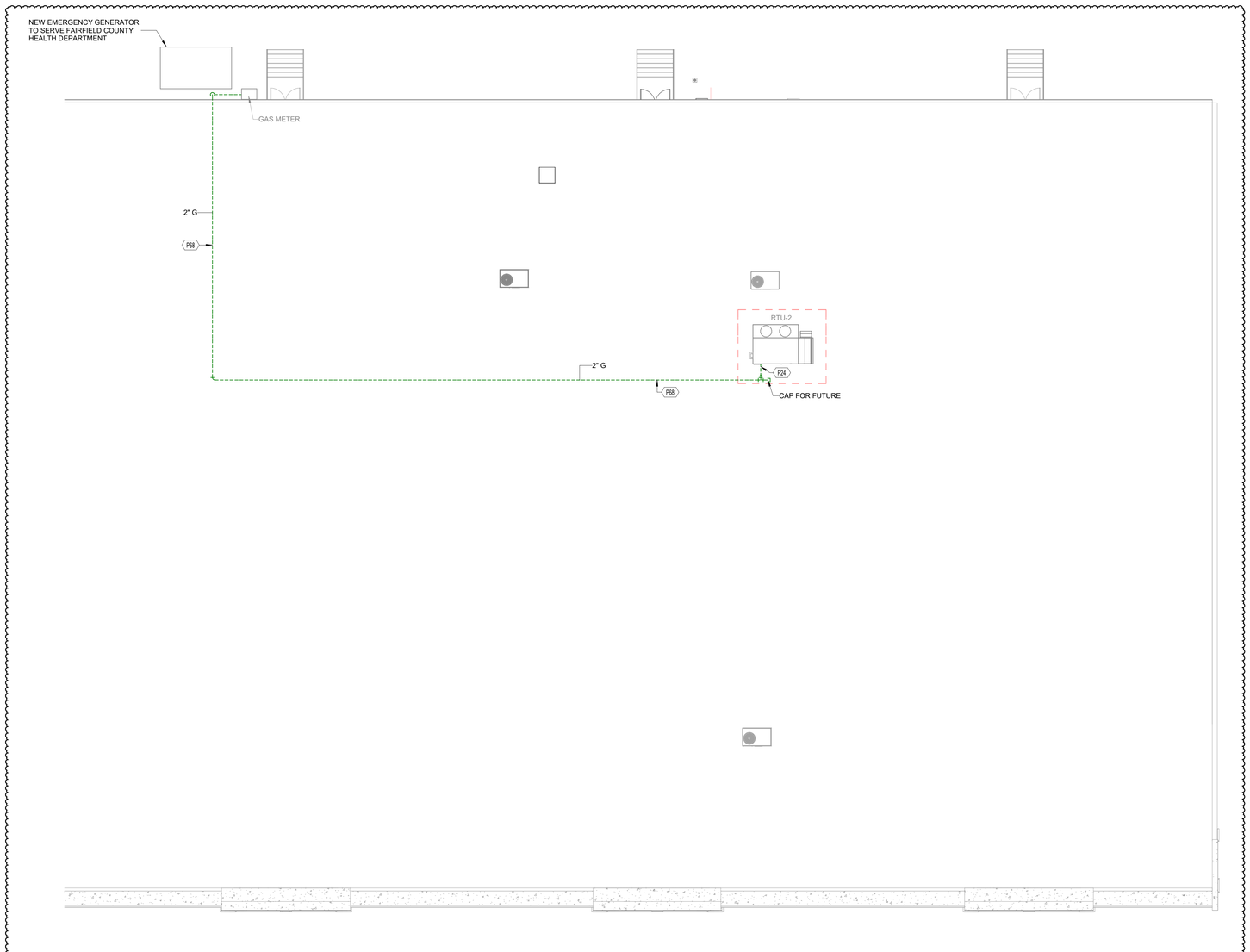
P16 INSTALL KEMPER FLOW-SPLITTER WITH SHUT-OFF VALVES MODEL 651-06, OR EQUIVALENT FLOW CONTROL DEVICE. FLOW SPLITTER TO BE SIZED PER MANUFACTURER INSTALLATION INSTRUCTIONS.

P17 INSTALL 110 DEG F, 3/4" CIRCUIT SOLVER BALANCING VALVE IN NOTED LOCATION.

P19 CONNECT TO EXISTING UNDERGROUND SANITARY. CONTRACTOR TO VERIFY LOCATION IN THE FIELD.

1 P24 GAS PIPING CONNECTION TO EQUIPMENT. REFER TO DETAIL 3/P100.

P68 NEW GAS PIPING ON ROOF SHALL BE SUPPORTED BY PRE-ENGINEERED SUPPORTS EQUAL TO MIRO INDUSTRIES MODEL 3-RAH-12, AT A MAXIMUM SPACING OF 10 FEET.



2 PLUMBING ROOF PLAN
P100 3/32" = 1'-0"

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1550 SHERIDAN DRIVE, LANCASTER, OH 43130
SCHOOL DISTRICT
School District ADDRESS

ISSUANCES

	02-19-25	DESIGN DEVELOPMENT
	03-18-25	BID/PERMIT
1	04-07-25	ADDENDUM 2

PLUMBING
FIRST FLOOR
PLAN

DATE 03/18/25

COMM NO. 2024149.01

P100

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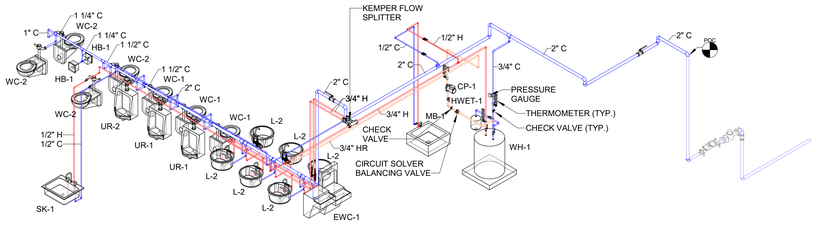
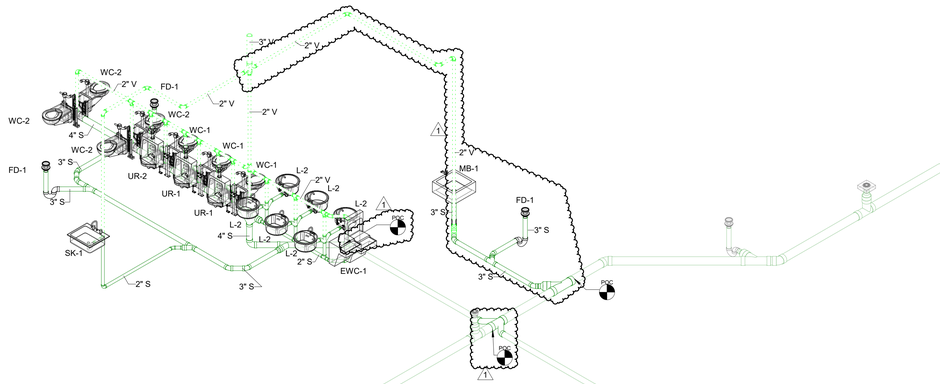
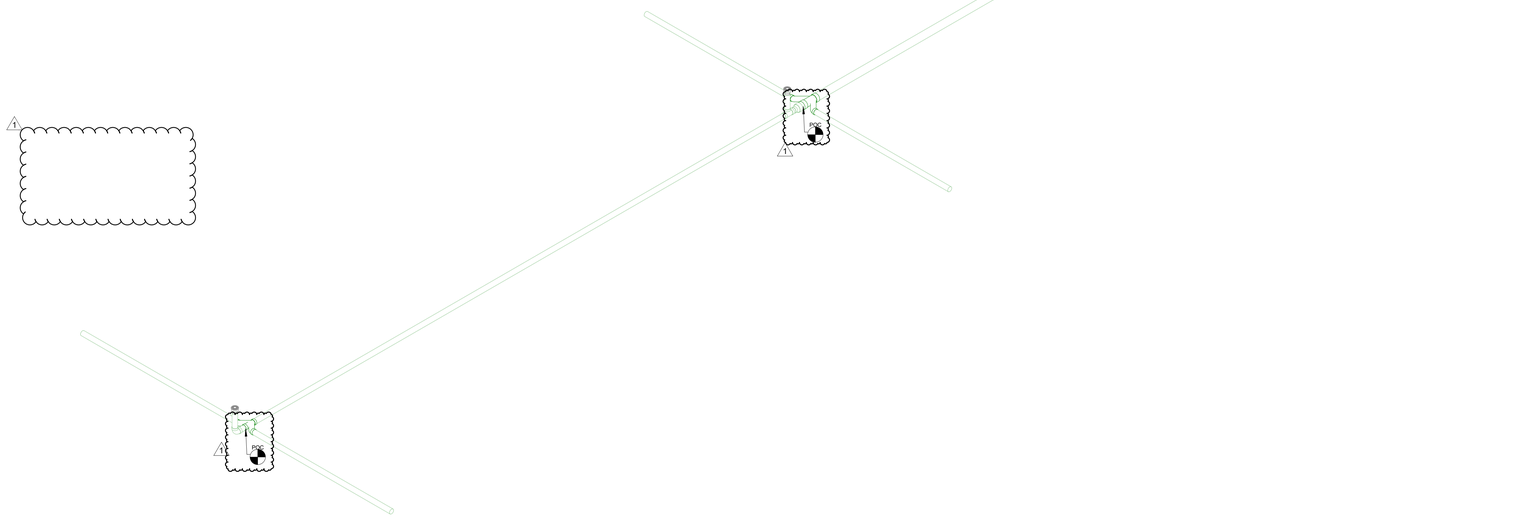
0'-1" REFERENCE LINE



2 P400 SUPPLY ISOMETRIC





1 P400 WASTE AND VENT ISOMETRIC

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1	04-07-25	ADDENDUM 2

PLUMBING ISOMETRICS

DATE 03/18/25

COMM NO. 2024149.01

P400

0'-1" REFERENCE LINE

LIGHTING FIXTURE SCHEDULE

GENERAL NOTES:
A. REFER TO LIGHTING CONTROL SCHEMATICS AND LIGHTING CIRCUIT SCHEDULES ON E510 SERIES DRAWINGS.
B. LUMINAIRE AND LENS FOR ALL LED LINEAR FIXTURES (E.G. C10, C40) SHALL BE ONE PIECE FOR UP TO A 12FT RUN. RUNS EXCEEDING 12FT SHALL BE PROVIDED WITH SEGMENT JOINERS AND A CONTINUOUS ROLL LENS SUCH THAT THE LUMINAIRE APPEARS AS A SINGLE PIECE. PROVIDE 4' EMERGENCY SECTION AS REQUIRED PER LIGHTING PLANS.
C. ALL FIXTURES MARKED 'ED' ARE EXISTING TO BE DEMOLISHED. VERIFY SERVING PANEL AND CIRCUIT NUMBER PRIOR TO DISCONNECTION. REMOVE LIGHTING BRANCH CIRCUITING ABOVE FINISHED CEILING. MAINTAIN HOME RUN CONDUIT FOR CONNECTION TO NEW FIXTURES.
D. ALL FIXTURES MARKED 'ER' ARE EXISTING TO REMAIN.
E. ALL FIXTURES MARKED 'ERL' ARE EXISTING TO BE RELOCATED. FIXTURES SHALL BE CLEANED AND RELAMPED.

FIXTURE TYPE	FIXTURE BASIS OF DESIGN	ALTERNATE MANUFACTURERS	FIXTURE DESCRIPTION	LAMP	LIGHT DISTRIBUTION	MIN LUMEN OUTPUT	COLOR TEMPERATURE	MIN CRI	DRIVER	VOLTAGE	MAX WATTAGE	MOUNTING METHOD	TYPE COMMENTS
01 INTERIOR													
A30	LITHONIA EPANL	COLUMBIA SRP, METALUX FP	RECESSED TROFFER, FLAT PANEL, EDGE-LIT, STEEL CONSTRUCTION, DLC RATED, 2' x 4' x 2-1/4"	LED	STANDARD	3000 lm	4000 K	80	LED DRIVER WITH 0-10V DIMMING	120 V	29 VA	CEILING GRID	
A30E	LITHONIA EPANL	COLUMBIA SRP, METALUX FP	RECESSED TROFFER, FLAT PANEL, EDGE-LIT, STEEL CONSTRUCTION, DLC RATED, 2' x 4' x 2-1/4", INTEGRAL BATTERY BACKUP WITH SELF-DIAGNOSTICS	LED	STANDARD	3000 lm	4000 K	80	LED DRIVER WITH 0-10V DIMMING	120 V	29 VA	CEILING GRID	
C40	LITECONTROL 4L-R-D	WILLIAMS LRX4, LUX ILLUMINAIRE EOS 4.0, MARK ARCHITECTURAL LIGHTING SL4L, CORELITE SQ4	RECESSED LINEAR, DIRECT DISTRIBUTION, SOFT DIFFUSE LENS, COLOR TO BE SELECTED BY ARCHITECT, 4" WIDE x 4' LONG	LED	500 LPF	2000 lm	4000 K	80	LED DRIVER WITH 0-10V DIMMING	120 V	17 VA	CEILING RECESSED	
C40-6	LITECONTROL 4L-R-D	WILLIAMS LRX4, LUX ILLUMINAIRE EOS 4.0, MARK ARCHITECTURAL LIGHTING SL4L, CORELITE SQ4	RECESSED LINEAR, DIRECT DISTRIBUTION, SOFT DIFFUSE LENS, COLOR TO BE SELECTED BY ARCHITECT, 4" WIDE x 4' LONG	LED	500 LPF	2000 lm	4000 K	80	LED DRIVER WITH 0-10V DIMMING	120 V	17 VA	CEILING RECESSED	
D10	PRESCOLITE LTR-4RD	GOTHAM EVO, LIGHTOLIER P4R, PORTFOLIO LTR-4RD, WILLIAMS 4DR	RECESSED DOWN LIGHT, ROUND, DEEP REGRESSED LENS, MATTE REFLECTOR, 4" DIAMETER, TRIM FINISH SELECTED BY ARCHITECT	LED	NARROW	1100 lm	4000 K	80	LED DRIVER WITH 0-10V DIMMING	120 V	14 VA	CEILING RECESSED	
D10E	PRESCOLITE LTR-4RD	GOTHAM EVO, LIGHTOLIER P4R, PORTFOLIO LTR-4RD, WILLIAMS 4DR	RECESSED DOWN LIGHT, ROUND, DEEP REGRESSED LENS, MATTE REFLECTOR, 4" DIAMETER, TRIM FINISH SELECTED BY ARCHITECT, INTEGRAL BATTERY BACKUP WITH SELF-DIAGNOSTIC TESTING	LED	NARROW	1100 lm	4000 K	80	LED DRIVER WITH 0-10V DIMMING	120 V	14 VA	CEILING RECESSED	
D22	PRESCOLITE LTR-6RD	GOTHAM EVO, LIGHTOLIER P6R, PORTFOLIO LTR-6RD, WILLIAMS 6DR	RECESSED DOWN LIGHT, ROUND, DEEP REGRESSED LENS, MATTE REFLECTOR, TRIM FINISH SELECTED BY ARCHITECT, 6" DIAMETER	LED	MEDIUM	2500 lm	4000 K	80	LED DRIVER WITH 0-10V DIMMING	120 V	25 VA	CEILING RECESSED	
D22E	PRESCOLITE LTR-6RD	GOTHAM EVO, LIGHTOLIER P6R, PORTFOLIO LTR-6RD, WILLIAMS 6DR	RECESSED DOWN LIGHT, ROUND, DEEP REGRESSED LENS, MATTE REFLECTOR, TRIM FINISH SELECTED BY ARCHITECT, 6" DIAMETER, EMERGENCY BATTERY BACKUP WITH SELF-DIAGNOSTICS	LED	MEDIUM	2500 lm	4000 K	80	LED DRIVER WITH 0-10V DIMMING	120 V	25 VA	CEILING RECESSED	
E10	DUAL-LITE LZ2	BARRON LED-60, LSI EAR, LITHONIA ELM2L, SURE-LITES SEL25, EMERGI-LITE EL-2RHL	EMERGENCY LIGHT, DUAL HEAD, THERMOPLASTIC, WHITE FINISH, INTEGRAL BATTERY PACK WITH SELF-DIAGNOSTIC HARDWARE	LED	N/A				N/A	120 V	6 VA	CEILING / WALL MOUNTED	
E20	DUAL-LITE OCR ⚠1	APPROVED EQUALS	EMERGENCY LIGHT, SINGLE REMOTE HEAD, CAST ALUMINUM, WEATHERPROOF, FINISH SELECTED BY ARCHITECT	LED	N/A				N/A	120 V	3 VA	WALL MOUNTED	WIRE TO ADJACENT EXIT SIGN
F10	LITHONIA CLX	COLUMBIA MPS4, DAY-BRITE FSS, METALUX 4SNLED, WILLIAMS FS	INDUSTRIAL LINEAR STRIP, STEEL HOUSING, 4' LONG	LED	STANDARD	4000 lm	4000 K	80	LED DRIVER	120 V	40 VA	CHAIN MOUNTED	MOUNT AT 10'-0" AFF
G24	FOCAL POINT SKYDOME EDGE	APPROVED EQUALS	ROUND PENDANT, 24" DIAMETER, FINISH SELECTED BY ARCHITECT, SUSPENDED BY AIRCRAFT CABLE, AIRCRAFT CABLE ROUTED THROUGH HUB	LED	STANDARD	2500 lm	4000 K	80	LED DRIVER WITH 0-10V DIMMING	120 V	17 VA	PENDANT MOUNTED	
G36	FOCAL POINT SKYDOME EDGE	APPROVED EQUALS	ROUND PENDANT, 36" DIAMETER, FINISH SELECTED BY ARCHITECT, SUSPENDED BY AIRCRAFT CABLE, AIRCRAFT CABLE ROUTED THROUGH HUB	LED	STANDARD	5000 lm	4000 K	80	LED DRIVER WITH 0-10V DIMMING	120 V	40 VA		
G48	FOCAL POINT SKYDOME EDGE	APPROVED EQUALS	ROUND PENDANT, 48" DIAMETER, FINISH SELECTED BY ARCHITECT, SUSPENDED BY AIRCRAFT CABLE, AIRCRAFT CABLE ROUTED THROUGH HUB	LED	STANDARD	7000 lm	4000 K	80	LED DRIVER WITH 0-10V DIMMING	120 V	72 VA	PENDANT MOUNTED	
L10	SATCO 62-105 FRAME LED	APPROVED EQUALS	VERTICAL VANITY LIGHT, 12" TALL, FINISH SELECTED BY ARCHITECT	LED	STANDARD ⚠1	800 lm	3000 K	80	LED DRIVER WITH 0-10V DIMMING	120 V	10 VA ⚠1	SURFACE MOUNTED	MOUNT AT 6'-0" AFF
T10	HALO 6308 ⚠1	NORA MAC XL LED, WAC SILO X20, APPROVED EQUALS	TRACK LIGHTING HEAD, FINISH SELECTED BY ARCHITECT, 3" APERTURE, INTERGRAL LED	LED	SPOT	1000 lm	3000 K	80	LED DRIVER	120 V	9 VA	SURFACE MOUNTED	
T20	HALO TRACK	NORA NT SERIES, JUNO, LIGHTOLIER, WAC	TRACK LIGHTING, SINGLE CIRCUIT, LENGTH AS SHOWN ON PLANS, QUANTITY OF FIXTURES AS SHOWN ON PLANS, COLOR SELECTED BY ARCHITECT	LED	N/A			0		120 V		TRACK	
X10	DUAL-LITE SE	EMERGI-LITE ELX, SURE-LITES CX, LITHONIA LE, BARRON 400U, LSI EXC	EXIT SIGN, SINGLE FACE, RED LETTERS, CAST ALUMINUM, DIRECTIONAL ARROWS AS SHOWN ON PLANS, WHITE HOUSING, EMERGENCY BATTERY BACKUP WITH SELF-DIAGNOSTIC HARDWARE	LED	N/A				N/A	120 V	5 VA	CEILING/WALL MOUNTED	WIRED TO UNSWITCHED CIRCUIT

26-POWERED EQUIPMENT SCHEDULE

GENERAL NOTES:
A. COORDINATE ALL ELECTRICAL REQUIREMENTS, INCLUDING ROUGH-IN LOCATION, CONNECTION TYPE, AND POWER REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
B. WIRING TERMINATIONS TO EQUIPMENT SHALL BE DONE PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
C. LOCATIONS OF DEVICES SHOWN ON DRAWINGS ARE SCHEMATIC IN NATURE. COORDINATE LOCATIONS WITH EQUIPMENT INSTALLER.
D. BRANCH WIRING TO EQUIPMENT SHALL BE COPPER.
E. CONNECTIONS, LOCAL DISCONNECTS, STARTERS, AND VFDS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC.

EQUIPMENT TYPE	MARK	DESCRIPTION	STARTING MEANS				DISCONNECTING MEANS				ELECTRICAL						WIRING NOTES
			TYPE	PROVIDED BY	INSTALLED BY	LOCATION	TYPE	PROVIDED BY	INSTALLED BY	LOCATION	VOLTS	POLES	AMPS	MOCP	PANEL	CIRCUIT	
DIV. 22																	
MECHANICAL	CP-1	DOMESTIC HOT WATER CIRCULATION PUMP	STARTER	DIV. 26	DIV. 26	NEAR UNIT	STARTER	DIV. 26	DIV. 26	NEAR UNIT	120 V	1	9.8 A	20.0 A	DP	3	
MECHANICAL	WH-1	ELECTRIC WATER HEATER	CONTROL PANEL	DIV. 22	DIV. 22	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	208 V	3	7.0 A	20.0 A	DP	5,7,9	
DIV. 23																	
MECHANICAL	EF-1	EXHAUST FAN (INLINE)	N/A	N/A	N/A	N/A	MRTS	DIV. 26	DIV. 26	NEAR UNIT	120 V	1	2.8 A	15.0 A	DP	1	
MECHANICAL	EF-2	EXHAUST FAN (INLINE)	N/A	N/A	N/A	N/A	MRTS	DIV. 26	DIV. 26	NEAR UNIT	120 V	1	2.8 A	15.0 A	DP	1	
MECHANICAL	RTU-2	AIR HANDLER	VFD	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 23	DIV. 26	NEAR UNIT	208 V	3	101.9 A ⚠1	125.0 A	DP	37,39,41	

LIGHTING CONTROL SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
⊠	LIGHTING CONTROL DAYLIGHT SENSOR	CEILING MOUNTED
PS	LIGHTING CONTROL PHOTOELECTRIC SWITCH	
LCP	LIGHTING CONTROL PANEL	WALL MOUNTED
LPS	LIGHTING PARTITION SENSOR	WALL MOUNTED

OCCUPANCY/VACANCY SENSOR

X INDICATES SENSOR TYPE OR SPECIAL NOTE. IF OMITTED, SENSOR IS DUAL FUNCTION OCCUPANCY/VACANCY SENSOR.

x — *STEM INDICATES WALL MOUNTED AT 10'-0" AFF UNO*

SENSOR TYPES

HB	HIGH BAY
O	OCCUPANCY ONLY
V	VACANCY ONLY

WALL CONTROL STATION

SX INDICATES CONTROL STATION TYPE OR SPECIAL NOTE. IF OMITTED, CONTROL STATION IS SINGLE POLE SWITCH.

a/b/c INDICATES ZONE OF CONTROL. REFER TO DRAWINGS.

a/b/c SX — *LIGHTING SWITCH*
 # OF "S" INDICATES NUMBER OF SWITCHES

CONTROL STATION TYPES

3	3 WAY
4	4 WAY
CS1	CONTROL STATION - ON/OFF/DIM - SINGLE ZONE
CS2	CONTROL STATION - ON/OFF/DIM - 2 ZONE
MS	MULTIPLE STATION SWITCH - ON/OFF
OS1	OCCUPANCY SENSOR
OS2	OCCUPANCY SENSOR - 2 POLE
OS3	OCCUPANCY SENSOR - 3 POLE
OSD	OCCUPANCY SENSOR - DIMMING
SC8	TOUCHSCREEN SCENE CONTROLLER - 8 ZONE
T	TIMER SWITCH
D	DIMMING SWITCH

LIGHTING FIXTURE LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A10 r	2'x4' RECESSED TROFFER	G10 r	CYLINDRICAL PENDANT
A20 r	2'x2' RECESSED TROFFER	T20 T10 r	TRACK W/ TRACK HEAD
A30 r	1'x4' RECESSED TROFFER	H10 r	RECTANGULAR HIGH BAY
C10 r	LINEAR PENDANT	E10	DUAL HEAD EMERGENCY FIXTURE
D10 r	RECESSED DOWNLIGHT	X10	EXIT SIGN

LIGHTING FIXTURE TAGS

1. CAPITAL LETTER WITH NUMBER DENOTES FIXTURE TYPE - REFER TO LIGHTING FIXTURE SCHEDULE.
2. SMALL LETTER DENOTES SWITCH LEG/RELAY NUMBER - REFER TO E100 SERIES SHEETS FOR TYPICAL ROOM LAYOUTS.

EMERGENCY LIGHTING FIXTURES

1. FIXTURES DENOTED WITH GRAY FILLED IN AREA SHALL PROVIDE EMERGENCY LIGHTING UPON LOSS OF NORMAL POWER.
2. FIXTURES DENOTED BY "NL" SHALL PROVIDE NORMAL-POWER EGRESS LIGHTING.
3. EXIT SIGN:
   - SHADED AREA DENOTES FACE
   - ARROW DENOTES ARROW DIRECTION
   - WHEN ON WALL, MOUNT NO HIGHER THAN 6" ABOVE TOP OF NEAREST DOORWAY

MECHANICAL CONTROLS LEGEND

HVAC CONTROL DEVICES ARE SHOWN FOR COORDINATION PURPOSES. REFER TO POWER PLANS FOR ANY ADDITIONAL RESPONSIBILITIES THE EC MAY HAVE FOR THESE DEVICES.

(XX) — XX INDICATES DEVICE DESIGNATION

C	CARBON DIOXIDE SENSOR
CO	CARBON MONOXIDE SENSOR
H	HUMIDITY SENSOR
S	BAS SPACE TEMPERATURE SENSOR
T	THERMOSTAT
TH	COMBINATION THERMOSTAT / HUMIDITY SENSOR
V	VOC SENSOR

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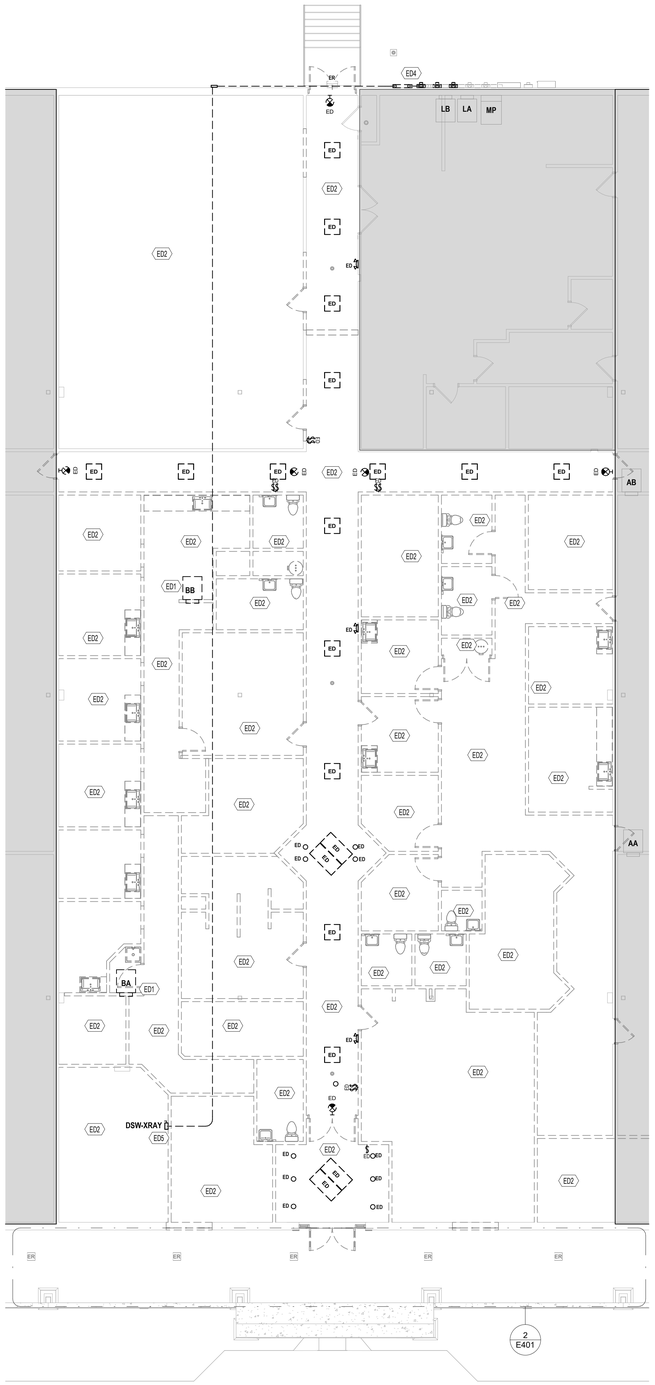
ELECTRICAL LEGENDS

DATE 03/18/25

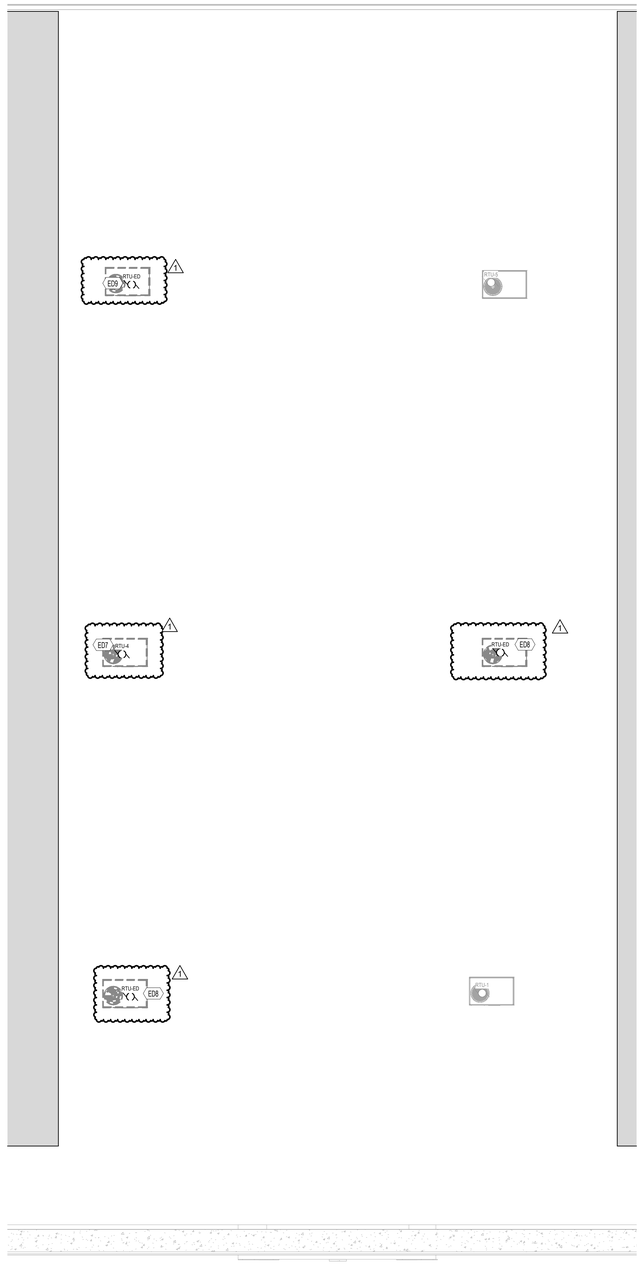
COMM NO. 2024149.01

E002

0'-1" REFERENCE LINE



1 E011 ELECTRICAL DEMO PLAN - FIRST FLOOR
1/8" = 1'-0"



2 E011 ELECTRICAL DEMO PLAN - ROOF
1/8" = 1'-0"

DEMOLITION DRAWING NOTES

A. DRAWING IS BASED ON FIELD OBSERVATIONS AND EXISTING DRAWINGS. NOTIFY CM OF DISCREPANCIES DUE TO ACTUAL FIELD CONDITIONS BEFORE PROCEEDING.

B. FIXTURES, DEVICES, AND EQUIPMENT DENOTED BY BOLD, DASHED LINE TYPE OR LABELED BY ED GENERALLY INDICATES EQUIPMENT TO BE DEMOLISHED. REFER TO DRAWING NOTES AND KEYNOTES FOR FULL EXTENT OF ASSOCIATED DEMOLITION WORK AND ITEMS TO REMAIN. UNLESS OTHERWISE NOTED, REMOVE WIRING BACK TO ABOVE FINISHED CEILING. MAINTAIN CIRCUITS FOR CONNECTION TO NEW DEVICES. REFER TO E200 SERIES DRAWINGS.

C. PROVIDE BLANK COVERS FOR RECESSED BACKBOXES MADE AVAILABLE THROUGH DEMOLITION, UNLESS NOTED FOR REUSE. REFER TO E200 SERIES DRAWINGS.

D. REFER TO SPECIFICATION SECTION 017419 FOR CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL REQUIREMENTS.

KEYNOTES

ED1 DISCONNECT AND REMOVE EXISTING PANELBOARDS ALONG WITH FEEDERS BACK TO SERVICE ENTRY. PROVIDE JUNCTION BOX IN AN ACCESSIBLE LOCATION FOR FUTURE USE OF SERVICE ENTRY.

ED2 OWNER TO COMPLETE INTERIOR DEMOLITION WORK PRIOR TO NEW CONSTRUCTION. EC SHALL DISCONNECT AND REMOVE REMAINING ELECTRICAL INFRASTRUCTURE WITHIN SPACE AS REQUIRED FOR COMMENCEMENT OF NEW WORK.

ED4 EXISTING SERVICE ENTRY EQUIPMENT TO BE MODIFIED. REFER TO SINGLE LINE DIAGRAM FOR DETAILS.

ED5 DISCONNECT AND REMOVE EXISTING X-RAY SERVICE DISCONNECT ALONG WITH FEEDER BACK TO SERVING LOCATION.

1 ED7 RTU TO BE RELOCATED. COORDINATE EXACT REQUIREMENTS IN FIELD. REFER TO POWER PLANS FOR NEW LOCATION.

ED8 DISCONNECT AND REMOVE EXISTING MECHANICAL EQUIPMENT. REMOVE EXISTING BRANCH CIRCUIT PATHWAY AND CONDUCTORS.

ED9 DISCONNECT AND REMOVE EXISTING MECHANICAL EQUIPMENT. MAINTAIN DISCONNECT, PATHWAYS, AND CONDUCTORS FOR RESUSE. COORDINATE EXACT REQUIREMENT IN FIELD.

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1	04-08-25	ADDENDUM 2

ELECTRICAL DEMOLITION PLANS

DATE 03/18/25

COMM NO. 2024149.01

E011

0'-1" REFERENCE LINE

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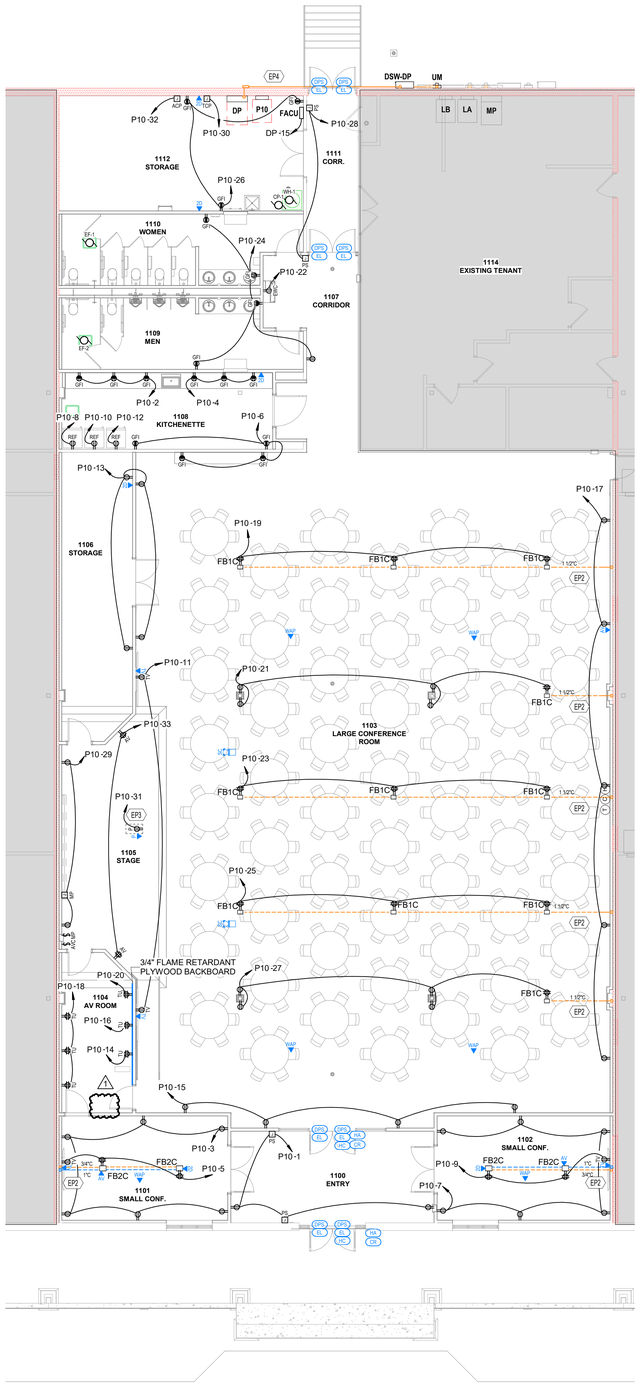
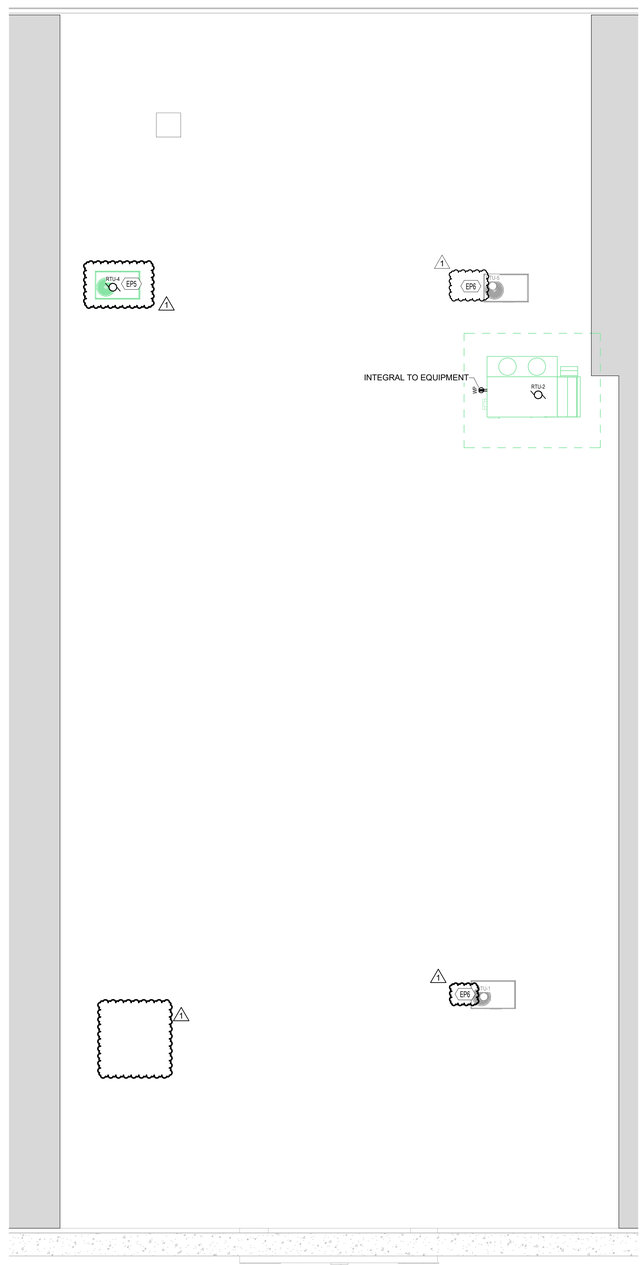


1 E201 FIRST FLOOR POWER PLAN
1/8" = 1'-0"



2 E201 ROOF POWER PLAN
1/8" = 1'-0"

GENERAL POWER NOTES:

A. REFER TO E000 SERIES SHEETS FOR PANEL AND CIRCUIT NUMBERS FOR MECHANICAL AND PLUMBING EQUIPMENT.

B. REFER TO E000 SERIES SHEETS FOR STARTER AND DISCONNECT TYPES AND CONTRACTOR RESPONSIBILITIES. STARTER AND DISCONNECT LOCATIONS TO BE NEAR EQUIPMENT WITH PROPER CLEARANCE AND WORKING SPACE PER NEC. COORDINATE MOUNTING WITH OTHER DISCIPLINES.

C. EC SHALL BE RESPONSIBLE TO INSTALL A SWITCH BOX AND 3/4" CONDUIT TO ABOVE THE ACCESSIBLE CEILING IN EACH ROOM FOR TEMPERATURE CONTROL THERMOSTAT. DEVICES SHOWN ON ELECTRICAL DRAWINGS ARE FOR REFERENCE ONLY. REFER TO THE M SERIES DRAWINGS FOR THERMOSTAT LOCATIONS.

D. EC SHALL BE RESPONSIBLE FOR TECHNOLOGY ROUGH-IN LOCATIONS. REFER TO SPECIFICATIONS FOR REQUIREMENTS.

E. ALL 15A AND 20A, 125V AND 250V, NON-LOCKING TYPE RECEPTACLES IN LOCATIONS AS REQUIRED BY NEC 406.12 SHALL BE TAMPER-RESISTANT RECEPTACLES.

F. COORDINATE ALL ELECTRICAL REQUIREMENTS, INCLUDING ROUGH-IN LOCATION, CONNECTION TYPE, AND POWER REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

G. PRIOR TO DEVICE ROUGH-IN, REFER TO E000 SERIES SHEETS FOR DEVICE LEGENDS AND SPECIALTY INFORMATION.

H. PRIOR TO DEVICE ROUGH-IN, REFER TO E500 SERIES SHEETS FOR SPECIALTY MOUNTING DETAILS.

I. CEILING MOUNTED TECHNOLOGY DEVICES SHALL BE MOUNTED AT THE SAME ELEVATION AS ADJACENT LIGHT FIXTURES. PROVIDE HARDWARE AS NECESSARY FOR PENDANT TYPE INSTALLATION.

KEYNOTES

EP2 PROVIDE CONDUIT UNDER SLAB FROM ABOVE FINISHED CEILING FOR POWER AND TECHNOLOGY DEVICES. CONDUIT SIZE AND QUANTITY AS NOTED ON PLANS. TRENCH FLOOR SLAB AS REQUIRED. COORDINATE IN FIELD.

EP3 COORDINATE EXACT PROJECTOR LOCATION WITH TECH CONSULTANT PRIOR TO ROUGH-IN.

EP4 ROUTE CONDUIT FROM SERVICE DISCONNECT ON EXTERIOR WALL TO MAIN PANEL 'DP'. COORDINATE EXACT ROUTING IN FIELD.

1 EP5 RELOCATED RTU. RECONNECT TO EXISTING DISCONNECT. REUSE EXISTING PATHWAYS AND CONDUCTORS WHERE POSSIBLE TO CONNECT TO NEW PANELBOARD. COORDINATE EXACT REQUIREMENT IN FIELD.

EP6 CONNECT EXISTING MECHANICAL EQUIPMENT TO NEW PANELBOARD. REUSE EXISTING PATHWAYS AND CONDUCTORS WHERE POSSIBLE. COORDINATE EXACT REQUIREMENTS IN FIELD.

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SCHOOL DISTRICT
School District ADDRESS

ISSUANCES

	02-19-25	DESIGN DEVELOPMENT
	03-18-25	BID/PERMIT
1	04-08-25	ADDENDUM 2

ELECTRICAL POWER PLANS

DATE 03/18/25

COMM NO. 2024149.01

E201

0'-1" REFERENCE LINE

LIGHTING FIXTURE SCHEDULE

GENERAL NOTES:

A. REFER TO LIGHTING CONTROL SCHEMATICS AND LIGHTING CIRCUIT SCHEDULES ON E510 SERIES DRAWINGS.
B. LUMINAIRE AND LENS FOR ALL LED LINEAR FIXTURES (E.G. C10, C40) SHALL BE ONE PIECE FOR UP TO A 12FT RUN. RUNS EXCEEDING 12FT SHALL BE PROVIDED WITH SEGMENT JOINERS AND A CONTINUOUS ROLL LENS SUCH THAT THE LUMINAIRE APPEARS AS A SINGLE PIECE. PROVIDE 4' EMERGENCY SECTION AS REQUIRED PER LIGHTING PLANS.
C. ALL FIXTURES MARKED 'ED' ARE EXISTING TO BE DEMOLISHED. VERIFY SERVING PANEL AND CIRCUIT NUMBER PRIOR TO DISCONNECTION. REMOVE LIGHTING BRANCH CIRCUITING ABOVE FINISHED CEILING. MAINTAIN HOME RUN CONDUIT FOR CONNECTION TO NEW FIXTURES.
D. ALL FIXTURES MARKED 'ER' ARE EXISTING TO REMAIN.
E. ALL FIXTURES MARKED 'ERL' ARE EXISTING TO BE RELOCATED. FIXTURES SHALL BE CLEANED AND RELAMPED.

FIXTURE TYPE	FIXTURE BASIS OF DESIGN	ALTERNATE MANUFACTURERS	FIXTURE DESCRIPTION	LAMP	LIGHT DISTRIBUTION	MIN LUMEN OUTPUT	COLOR TEMPERATURE	MIN CRI	DRIVER	VOLTAGE	MAX WATTAGE	MOUNTING METHOD	TYPE COMMENTS
ALTERNATE													
A50	LITHONIA SCNE	BEACON VANISH, APPROVED EQUALS	RECESSED CANOPY LIGHT, SWITCHABLE OUTPUT, TRIM COLOR TO BE SELECTED BY ARCHITECT	LED	DIFFUSED	6000 lm	3000 K	80	LED DRIVER	120 V	50 VA	CANOPY RECESSED	

1

DEMOLITION DRAWING NOTES

A. DRAWING IS BASED ON FIELD OBSERVATIONS AND EXISTING DRAWINGS. NOTIFY CM OF DISCREPANCIES DUE TO ACTUAL FIELD CONDITIONS BEFORE PROCEEDING.

B. FIXTURES, DEVICES, AND EQUIPMENT DENOTED BY BOLD, DASHED LINE TYPE OR LABELED BY ED GENERALLY INDICATES EQUIPMENT TO BE DEMOLISHED. REFER TO DRAWING NOTES AND KEYNOTES FOR FULL EXTENT OF ASSOCIATED DEMOLITION WORK AND ITEMS TO REMAIN. UNLESS OTHERWISE NOTED, REMOVE WIRING BACK TO ABOVE FINISHED CEILING. MAINTAIN CIRCUITS FOR CONNECTION TO NEW DEVICES. REFER TO E200 SERIES DRAWINGS.

C. PROVIDE BLANK COVERS FOR RECESSED BACKBOXES MADE AVAILABLE THROUGH DEMOLITION, UNLESS NOTED FOR REUSE. REFER TO E200 SERIES DRAWINGS.

D. REFER TO SPECIFICATION SECTION 017419 FOR CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL REQUIREMENTS.

GENERAL LIGHTING NOTES:

A. EXIT SIGNS SHALL BE CONNECTED AHEAD OF ALL SWITCHING. LIGHT FIXTURES DENOTED BY "NL" SHALL PROVIDE NORMAL-POWER EGRESS LIGHTING AND EMERGENCY LIGHTING UPON LOSS OF NORMAL POWER. REFER TO E510 SERIES DRAWINGS FOR CONTROL DETAILS.

B. POWER FOR EXIT SIGNS MOUNTED AT LOCATIONS WITH GLAZING, SUCH AS CURTAINWALLS OR STOREFRONT, SHALL BE CONCEALED THROUGH THE MULLION.

C. REFER TO E510 SERIES DRAWINGS FOR LIGHTING CONTROL DETAILS AND SEQUENCE OF OPERATIONS.

KEYNOTES

ED6 AS PART OF BID ALTERNATE 01, DISCONNECT AND REMOVE EXISTING CANOPY LIGHTS. MAINTAIN PATHWAYS, CIRCUIT, AND CONDUCTORS FOR REUSE.

EL2 AS PART OF BID ALTERNATE 01, RECONNECT TO EXISTING LIGHTING CIRCUIT MADE AVAILABLE THROUGH DEMOLITION. COORDINATE EXACT REQUIREMENTS IN FIELD.

1 E401 CANOPY DEMO PLAN - ALTERNATE
1/8" = 1'-0"

2 E401 CANOPY LIGHTING PLAN - ALTERNATE
1/8" = 1'-0"

0'-1" REFERENCE LINE

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ELECTRICAL ALTERNATE PLANS

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E401

SINGLE LINE DIAGRAM SYMBOL LEGEND

GENERAL NOTES:

1. SYMBOLS IN THIS LEGEND MAY NOT ALL APPEAR IN THE DRAWINGS.
2. NOT ALL EQUIPMENT OPTIONS AND REQUIREMENTS ARE INDICATED ON THE SINGLE LINE DIAGRAM.
3. REFER TO DIV. 26 SPECIFICATION SECTIONS FOR DETAILED REQUIREMENTS FOR ELECTRICAL DISTRIBUTION INFRASTRUCTURE.
4. INFORMATION ABOUT EXISTING EQUIPMENT IS BASED ON EXISTING DRAWINGS AND FIELD OBSERVATIONS.
5. EXISTING FEEDER CONDUCTORS ARE ASSUMED TO BE COPPER.
6. ALL EQUIPMENT OUTSIDE OF "NEW WORK" SCOPE BOXES IS FOR REFERENCE ONLY.

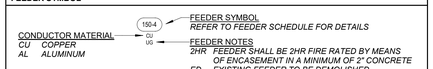
OPTIONS AND ABBREVIATIONS:

2N	200% NEUTRAL
FTL	FEED THRU LUGS
GF	GROUND FAULT PROTECTION
PLP	PHASE LOSS PROTECTION
SE	SERVICE ENTRY RATED
SM	INTEGRAL MAINS SUBMETERING
SPD	INTEGRAL SURGE PROTECTION DEVICE
ST	SHUNT TRIP MAIN BREAKER
UM	UTILITY METERING

GENERIC SYMBOLS

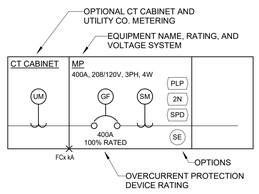
20A 1P	CIRCUIT BREAKER *TRIP RATING* *NUMBER OF POLES*	20A 1P	SWITCH *SWITCH RATING* *NUMBER OF POLES*
FCx kA	CALCULATED FAULT CURRENT POINT	20A	FUSE *TRIP RATING*
M	ELECTRICAL METER		EQUIPMENT GROUND
	ELECTRIC MOTOR	G	ELECTRIC GENERATOR

FEEDER SYMBOL

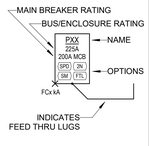


SPECIFIC EQUIPMENT

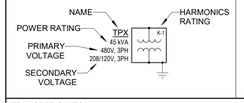
SWITCHBOARD / DISTRIBUTION PANELBOARD



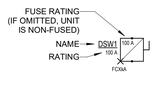
PANELBOARD



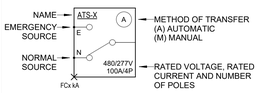
DISTRIBUTION TRANSFORMER



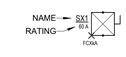
DISCONNECT SWITCH



TRANSFER SWITCH



STARTER



FEEDER SCHEDULE

FEEDER TAG	CONDUCTOR MATERIAL	PARALLEL SETS	FEEDER CONDUCTORS QTY	FEEDER CONDUCTORS SIZE	EGC SIZE	CONDUIT SIZE
100-4	CU	1	4	#1	#8	1 1/2"
125-3	CU	1	3	#1	#6	1 1/4"
400-4	CU	1	4	600 KCMIL	#3	3 1/2"
400-4S	CU	1	4	600 KCMIL	N/A	3 1/2"
600-4S	CU	2	4	350 KCMIL	N/A	3"

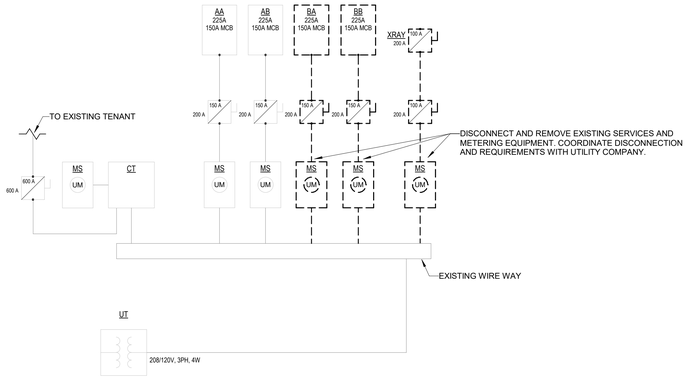
KEYNOTES

ELECTRICAL SERVICE CALCULATIONS

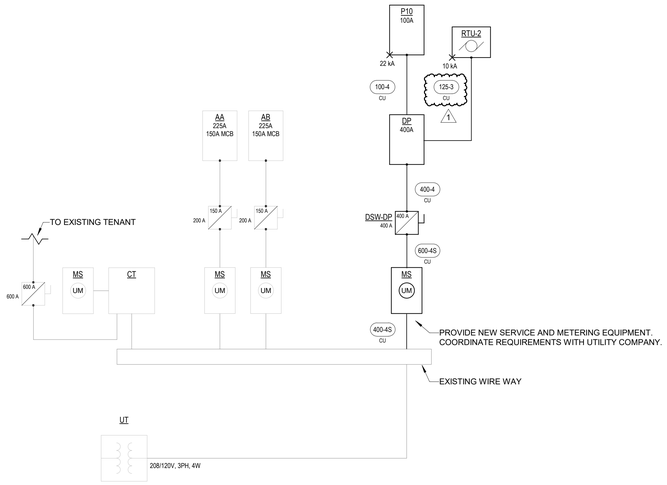
NEW ELECTRICAL SERVICE

NEW LOADS
BUILDING AREA: 9,000sf

UTILITY POWER	19.58 kW
LIGHTING	3.8 kW
MECHANICAL	74.2 kW
SPARE (15%)	14.6 kW
TOTAL CALCULATED LOAD:	**112.2 kW**
	311.8A @ *208V / 3PH*
	NEW 400A SERVICE



1 E601 EXISTING SINGLE LINE DIAGRAM



2 E601 NEW SINGLE LINE DIAGRAM

Panelboard: DP

Location: STORAGE 1113 **Volts:** 208Y/120V **A.I.C. Rating:** 22,000
Supply From: **Phases:** 3 **Mains Type:** MCB
Mounting: Wall Mounted **Wires:** 4 **Panel & MCB Rating** 400.0 A
Enclosure: NEMA 1

CKT	Circuit Description	Device Notes	Trip	Poles	A		B		C		Poles	Trip	Device Notes	Circuit Description	CKT
1	M - EF-2, EF-1		15	1	672	552					1	20		L - 1100, 1101, 1102	2
3	M - CP-1		20	1			1176	1091			1	20		L - 1103 - ZONES a, b	4
5	M - WH-1		20	3					835	405	1	20		L - 1103 - ZONE c	6
7	--	--	--	--	835	805					1	20		L - 1103 - ZONE d	8
9	--	--	--	--			835	60			1	20		L - 1103 - SCONCES	10
11									481	1	20			L - 1104, 1105, 1106	12
13		1				912					1	20		L - 1107-1112	14
15	1113 - FACU	LOD	20	1			360	3723			3	45		M - RTU-1	16
17	M - RTU-4		45	3					3615	3723	--	--	--	--	18
19	--	--	--	--	3615	3723					--	--	--	--	20
21	--	--	--	--			3615				1				22
23	M - RTU-5		45	3					3723						24
25	--	--	--	--	3723										26
27	--	--	--	--			3723								28
29															30
31	Spare		100	3	0	0					1	20		Spare	32
33	--	--	--	--			0	0			1	20		Spare	34
35	--	--	--	--						0	1	20		Spare	36
37	M - RTU-4	1	125	3	12237	7860					3	100		P10	38
39	--	--	--	--			12237	7620			--	--	--	--	40
41	--	--	--	--					12237	8100	--	--	--	--	42
					Total Load:		34933 VA		34439 VA		33118 VA				
					Total Amps:		292.8 A		288.7 A		276.0 A				

DESCRIPTION ABBREVIATION LEGEND:	DEVICE NOTES LEGEND:	Panel Totals	
L = LIGHTS	GFI = GFI BREAKER, IF UNAVAILABLE SUBSTITUTE WITH GFI RELAY MODULE		1
R = RECEPTACLES	LOD = LOCK ON/OFF DEVICE	Total Conn. Load:	102490 VA
M = MECHANICAL EQUIPMENT	SPD = SURGE PROTECTION DEVICE	Total Est. Demand:	97590 VA
P = PLUMBING EQUIPMENT	BM = BRANCH CIRCUIT LEVEL METERING	Total Conn. Current:	284.5 A
		Total Est. Demand Current:	270.9 A

Notes:

Panelboard: P10

Location: STORAGE 1113 **Volts:** 208Y/120V **A.I.C. Rating:** 22,000
Supply From: DP **Phases:** 3 **Mains Type:** MLO
Mounting: Wall Mounted **Wires:** 4 **Panel Rating** 100.0 A
Enclosure: NEMA 1

CKT	Circuit Description	Device Notes	Trip	Poles	A		B		C		Poles	Trip	Device Notes	Circuit Description	CKT
1	R - 1100, POWER SUPPLIES		20	1	720	540					1	20		R - 1108 - LEFT COUNTERTOP	2
3	R - 1101		20	1			1080	540			1	20		R - 1108 - RIGHT COUNTERTOP	4
5	R - 1101 - FLOOR BOXES, TV		20	1					900	720	1	20		R - 1108, 1103	6
7	R - 1102		20	1	1080	600					1	20	GFI	R - 1108 - REFRIGERATOR	8
9	R - 1102 - FLOOR BOXES, TV		20	1			900	600			1	20	GFI	R - 1108 - REFRIGERATOR	10
11	R - 1103 - TVs		20	1					360	600	1	20	GFI	R - 1108 - REFRIGERATOR	12
13	R - 1103, 1106		20	1	720	360					1	20		R - 1104 - DATA RACK	14
15	R - 1103 - ENTRY WALL		20	1			720	360			1	20		R - 1104 - AV RACK	16
17	R - 1103 - BACK WALL		20	1					900	1080	1	20		R - 1104 - TECH ROOM UTILITY 01	18
19	R - 1103 - FLOOR BOXES - ROW1		20	1	1080	360					1	20		R - 1104 - TECH ROOM UTILITY 02	20
21	R - 1103 - FLOOR BOXES - ROW2		20	1			1080	180			1	20	GFI	R - 1107 - EWC	22
23	R - 1103 - FLOOR BOXES - ROW3		20	1					1080	900	1	20		R - 1107, 1109, 1110	24
25	R - 1103 - FLOOR BOXES - ROW4		20	1	1080	540					1	20		R - 1112	26
27	R - 1103 - FLOOR BOXES - ROW5		20	1			1080	360			1	20		1107, 1111 - POWER SUPPLIES	28
29	R - 1105 - BACK WALL		20	1					960	600	1	20		1112 - TEMP CONTROL PANEL	30
31	R - 1105 - PROJECTOR		20	1	180	600					1	20		1112 - ACCESS CONTROL PANEL	32
33	R - 1105 - STAGE AV		20	1			720						1		34
35															36
37	Spare		20	1	0	0					1	20		Spare	38
39	Spare		20	1			0	0			1	20		Spare	40
41	Spare		20	1					0	0	1	20		Spare	42
					Total Load:		7860 VA		7620 VA		8100 VA				
					Total Amps:		65.8 A		63.5 A		67.8 A				

DESCRIPTION ABBREVIATION LEGEND:	DEVICE NOTES LEGEND:	Panel Totals	
L = LIGHTS	GFI = GFI BREAKER, IF UNAVAILABLE SUBSTITUTE WITH GFI RELAY MODULE		
R = RECEPTACLES	LOD = LOCK ON/OFF DEVICE	Total Conn. Load:	23580 VA
M = MECHANICAL EQUIPMENT	SPD = SURGE PROTECTION DEVICE	Total Est. Demand:	18680 VA
P = PLUMBING EQUIPMENT	BM = BRANCH CIRCUIT LEVEL METERING	Total Conn. Current:	65.5 A
		Total Est. Demand Current:	51.9 A

Notes:

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1	04-08-25	ADDENDUM 2

ELECTRICAL SINGLE LINE DIAGRAM AND PANEL SCHEDULES

DATE 03/18/25

COMM NO. 2024149.01

E601

"0-1" REFERENCE LINE