

ADDENDUM NO. 002 (Rev 01/2017)

ISSUE DATE: **03/12/2024**

RE: **GRAINGER HALL 2ND & 5TH FLOOR RENOVATION
PHASE 2 - 5TH FLOOR OFFICE RENOVATION &
PHASE 3 - 2ND FLOOR NW CORNER RENOVATION
UNIVERSITY OF WISCONSIN-MADISON
610 WALNUT STREET
MADISON, WISCONSIN**

UWSA Project No. **A-22-021**
UW Madison Project No. **0140-2303**

BID OPENING: **MEP Bidders: 2:00 P.M., March 19, 2024**
GPC Bidders: 2:00 P.M., April 02, 2024

FROM: **DESTREE DESIGN ARCHITECTS, INC.**
222 W. Washington Ave. #310
Madison, WI 53703
Phone: (608) 268.1499

TO: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Contract Documents dated **February 20, 2024** as noted below. Acknowledge receipt of this Addendum by inserting the number and issue date of this addendum in the blank space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of **3 pages** and the attached documents: BID FORM – MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION (MEP), Phase 2 Sheets E000, ES101, E401, E500 & Phase 3 Sheets A201, E000, ED101, ES101, E401, E500.

CHANGES TO BIDDING REQUIREMENTS:

1. **REPLACE:** The BID FORM – MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION (MEP) in the MEP Volume 1 specifications to be replaced with the attachment Bid Form to correct the second page of the form.
2. **REPLACE:** On sheet A-2 in the MEP INVITATION TO BIDDERS lines 34 & 35 to be replaced with the following. **Base Bid will be received as a single lump sum bid for: 2) Fire Protection (Fire Suppression); 3) Plumbing; 4) Mechanical (Heating, Ventilating, Air Conditioning); and 5) Electrical.**

CHANGES TO CONDITIONS OF THE CONTRACT:

1. N/A

CHANGES TO SPECIFICATIONS (DIVISIONS 2 THRU 33):

1. **REMOVE:** Specification 28 10 00, page 2, line 1, remove the following: Card Readers
2. **ADD:** Specification 28 10 00, page 2, line 13-14, add the following: -with wiring to head-end. Obtain pricing and models from UW Police (see below).
3. **ADD:** Specification 28 10 00, page 2, line 21, add the following: Panic Buttons with wiring to head-end
4. **ADD:** Specification 28 10 00, page 2, line 29, add the following: Final programming for access control and panic buttons.
5. **ADD:** Specification 28 10 00, page 2, line 35, add the following: Contact at UW Police Department for security devices is Patrick Bucci, Patrick.bucci@wisc.edu, 608-469-9877.

CHANGES TO DRAWINGS:

1. Phase 2 Drawings

- a. Sheet E000
 - i. **REVISE:** The lighting fixture schedule has been updated with notes in regard to the size of the Mutto Light Fixture Size so that the larger 16.5" diameter fixture is to be used. See Sheet E000.
 - ii. **REVISE:** The lighting fixture schedule has been updated in regard to the size of the L1B, L1 and L2 fixtures. See Sheet E000.
- b. Sheet ES101
 - i. **REVISE:** General Note 2. Correct spelling of "APPLIFIERS" to AMPLIFIERS. Then add the following after the period: PROVIDE SHOP DRAWINGS INDICATING CODE-COMPLIANT PLACEMENT OF NEW SPEAKERS, STROBES, PULL STATIONS AND OTHER REQUIRED DEVICES. See Sheet ES101.
- c. Sheet E401
 - i. **REVISED:** Keyed Demolition Note 1. Note change to REMOVE AND REPLACE BUS AND BREAKERS TO REDUCE ARC FLASH PROTECTION REQUIREMENTS, COORDINATE WITH ONWER FOR OUTAGE SCHEDULE. See Sheet E401.
 - ii. **ADD:** Keyed New Work Notes. Add keynote 2, INSTALL PANEL BUS AND BREAKERS TO REDUCE ARC FLASH PROTECTION REQUIRMENTS. PROVIDE 14KA AIC RATING FOR PANEL. COORDINATE WITH OWNER FOR OUTAGE SCHEUDLE. See sheet E401.
- d. Sheet E500
 - i. **ADD:** The required AIC rating added to the new panelboard schedules. See Sheet E500.
 - ii. **REVISED:** The panel note for panelboard 5/4Q has been removed. See Sheet E500.

2. Phase 3 Drawings

- a. Sheet A201.
 - i. **ADD:** Add keynote 9. Keynote to read, " GPC to demo the GWB ceiling as needed for the above ceiling plumbing and mechanical work. GPC to install GWB and paint the entire ceiling PT-7." See Sheet A201.
- b. Sheet E000
 - i. **REVISE:** The lighting fixture schedule has been updated with notes in regard to the size of the Mutto Light Fixture Size so that the larger 16.5" diameter fixture is to be used. See Sheet E000.
 - ii. **REVISE:** The lighting fixture schedule has been updated in regard to the size of the L1B, L1 and L2 fixtures. See Sheet E000.
- c. Sheet ED101
 - i. **REVISE:** Demolition Note 5 to be revised. Remove last sentence "SEE NEW WORK FOR PRECISE LOCATIONS." See Sheet ED101.
- d. Sheet ES101
 - i. **REVISE:** General Note 2. Correct spelling of "APPLIFIERS" to AMPLIFIERS. Then add the following after the period: PROVIDE SHOP DRAWINGS INDICATING CODE-COMPLIANT PLACEMENT OF NEW SPEAKERS, STROBES, PULL STATIONS AND OTHER REQUIRED DEVICES. See Sheet ES101.
- e. Sheet E401
 - i. **REVISED:** Keyed Demolition Note 1. Note change to REMOVE AND REPLACE BUS AND BREAKERS TO REDUCE ARC FLASH PROTECTION REQUIREMENTS, COORDINATE WITH ONWER FOR OUTAGE SCHEDULE.
 - ii. **ADD:** Keyed New Work Notes. Add keynote 2, INSTALL PANEL BUS AND BREAKERS TO REDUCE ARC FLASH PROTECTION REQUIRMENTS. PROVIDE 14KA AIC RATING FOR PANEL. COORDINATE WITH OWNER FOR OUTAGE SCHEUDLE. See Sheet E401.
- f. Sheet E500
 - i. **ADD:** The required AIC rating added to the new panelboard schedules. See Sheet E500.
 - ii. **ADD:** Panel notes for panelboards 2/H SECT1(DEMO) and 2H5/4Q (DEMO) has been added the schedules. See Sheet E500.

GENERAL QUESTIONS/CLARIFICATIONS:

1. Rooms 2243, 2462 and 4432 are mentioned on the ES prints in the key plans of 2nd and 5th floors. Those notations are related to GENERAL NOTES: 1 on both sheets. General note 1 mentions the headend locations of security panels may be outside of the project scope and to contact UW Police (see contact above) for clarification and access. This mentioning was to warn that security wiring may extend hundreds of feet outside of project scope and add some additional labor and material for that wiring.
2. For the L1B, L1 and L2 fixtures the size of them are all the same at 1.5" and have been updated accordingly on the plans.
3. The building's central freight elevator will be available for contractor use during construction. The freight elevator is located in the center of the main east-west corridor of the building and is approximately 175 +/- from the 5th floor area of work."
4. The single line drawings and panels schedules have been updated to address the question of whether the electrical distribution equipment is to be replaced or added to for the project.
5. The substitution request for Vetrotech Fire-Rated Aluminum Framed Entrances and Storefronts has not been accepted.
6. The substitution request for Speedflow Plus Electric Hand Dryer has not been accepted.
7. The substitution request for Scranton Phenolic Core Toilet Compartments has not been accepted.
8. The substitute request for Frasch Acoustical Panel Treatments has not been accepted.

END OF ADDENDUM

DESTREE DESIGN ARCHITECTS, INC.
222 W. Washington Ave. #310
Madison, WI 53703
Phone: (608) 268.1499

The University of Wisconsin - Madison
1860 Van Hise Hall, 1220 Linden Drive
Madison, Wisconsin 53706

1 **BID FORM – MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION (MEP)** (Rev 11/2022)
2 THE BOARD OF REGENTS OF THE UNIVERSITY OF WISCONSIN SYSTEM
3 s.16.855 Wis. Stats.

4
5 **GRAINGER HALL 2ND & 5TH FLOOR RENOVATION**
6 **PHASE 2 – 5TH FLOOR OFFICE RENOVATION &**
7 **PHASE 3 – 2ND FLOOR NW CORNER RENOVATION**
8 **UNIVERSITY OF WISCONSIN - MADISON**
9 **MADISON, WISCONSIN**

10
11 UW-MADISON Project No. **0140-2303** / UWSA Project No. **A-22-021**

12
13 **Mechanical, Electrical, Plumbing, and Fire Protection (MEP) Bid Opening: 2:00 P.M., March 19, 2024.**

14
15
16 To: University of Wisconsin System Administration (UWSA)

17 (a joint venture)

18 (a corporation)

19 (a partnership)

20 We _____ (an individual)

(Cross out inapplicable)

21
22
23 Of _____
24 Street City State Zip

25
26 hereby agree to execute a subcontract with the General Prime Contractor awarded the contract for the project designated
27 above and to furnish satisfactory separate 100% Performance Bond and 100% Payment Bond in the amount specified
28 no later than ten (10) days after execution of the subcontract with the General Prime Contractor, and to provide all labor
29 and material required for the construction of the project designated above, for the prices hereinafter set forth, in strict
30 accordance with the Bidding Documents prepared by **Destree Design Architects, 222 West Washington Ave. #310,**
31 **Madison, Wisconsin, 53703** for the Owner and dated **February 13, 2024**

32
33 (For use by General Prime Contractor to offer subcontract to the successful MEP bidders identified through UWSA)

34 Contact name: _____

35 Telephone Number: _____

36 Email address: _____

37 FAX Number: _____

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41
42
43 **IMPORTANT: BEFORE SUBMITTING YOUR BID, PLEASE VERIFY THAT:**

- 44 1. You have been **certified by DOA as a qualified and responsible bidder** for the amount of your bid within the
45 division(s) of work being bid.
- 46 2. You have **entered all Bid amounts in numeric characters** (Example: \$9,999);
- 47 3. You have **acknowledged receipt of all addenda**;
- 48 4. You have **signed the Bid Form**
- 49 5. You have **included a valid Bid Guarantee** for not less than 10% of the value of the bid as either:
- 50 a) a Bid Bond signed by the contractor and surety, with a Power of Attorney attached, **or**
- 51 b) a Cashier's Check or Bank Check pursuant to Wis. Stat. s. 779.14(1m)(c)2.b. and 779.14(1s). A
- 52 Company or Personal Check will not be accepted.
- 53

1 FIRE SUPPRESSION

2
3 BASE BID NO. 2 Fire Suppression Work fully complete as per Bidding Documents, for the sum of

4
5 (\$ _____)

6 **Enter bid amount in numeric characters only** (Example: \$9,999). See MEP Instructions to Bidders 'Article
7 16 Submission of Base Bids' for detailed instructions.

8
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10 PLUMBING

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12 BASE BID NO. 3 Plumbing Work fully complete as per Bidding Documents, for the sum of

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14 (\$ _____)

15 **Enter bid amount in numeric characters only** (Example: \$9,999). See MEP Instructions to Bidders 'Article
16 16 Submission of Base Bids' for detailed instructions.

17
18
19 HEATING, VENTILATING AND AIR CONDITIONING

20
21 BASE BID NO. 4 Heating, Ventilating, Air Conditioning Work fully complete as per Bidding Documents, for the sum of

22
23 (\$ _____)

24 **Enter bid amount in numeric characters only** (Example: \$9,999). See MEP Instructions to Bidders 'Article
25 16 Submission of Base Bids' for detailed instructions.

26
27
28 ELECTRICAL

29
30 BASE BID NO. 5 Electrical Work fully complete as per Bidding Documents for the sum of

31
32 (\$ _____)

33 **Enter bid amount in numeric characters only** (Example: \$9,999). See MEP Instructions to Bidders 'Article
34 16 Submission of Base Bids' for detailed instructions.

35
36
37 COMBINED BASE BIDS OPTION

38
39 BASE BID NO. _____ for _____ (Division of Work),
40 BASE BID NO. _____ for _____ (Division of Work) and
41 BASE BID NO. _____ for _____ (Division of Work) and
42 BASE BID NO. _____ for _____ (Division of Work) Work fully complete as per specifications and related
43 drawings, for the sum of

44
45 (\$ _____)

46 **Enter bid amount in numeric characters only** (Example: \$9,999). See MEP Instructions to Bidders 'Article
47 16 Submission of Base Bids' for detailed instructions.

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COMMENCEMENT AND COMPLETION OF WORK

The undersigned agrees, if awarded the contract, to enter into a subcontract with the MEP Bidders identified by the Owner.

ADDENDUM RECEIPT

We acknowledge receipt of the following Addenda:

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

PRIOR TO SIGNING, BIDDERS' ATTENTION IS DIRECTED TO MEP INSTRUCTIONS TO BIDDERS TO AVOID THE POSSIBILITY OF INVALIDATING THIS BID.

BY SIGNING THIS BID FORM, THE BIDDER ATTESTS TO PERSONAL KNOWLEDGE OF THE FOLLOWING:

- | | |
|----|---|
| 1. | Bidder is <u>certified</u> by DOA as a qualified and responsible bidder for the amount of the bid submitted, within the division(s) of work being bid. |
| 2. | Bidder agrees to enter into a subcontract with the General Prime Contractor in accordance with Wis. Stats. s. 16.855(14) and ARTICLE 9 of these Bidding Documents. |
| 3. | Bidder has examined the drawings and specifications, carefully prepared the bid form, and has reviewed all forms in detail before submitting bid; and bidder, or the agents, officers, or employees thereof, have not, either directly or indirectly, entered into any agreement, bid rigging, bid rotation, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this bid. |
| 4. | That all work will be performed at the Bidder's own proper cost and expense, that the Bidder will furnish all necessary materials, labor, tools, machinery, apparatus, and other means of construction in the manner provided in the applicable specifications, and at the time stated in the General Prime Contractor's Notice to Proceed. |

(Firm Name)

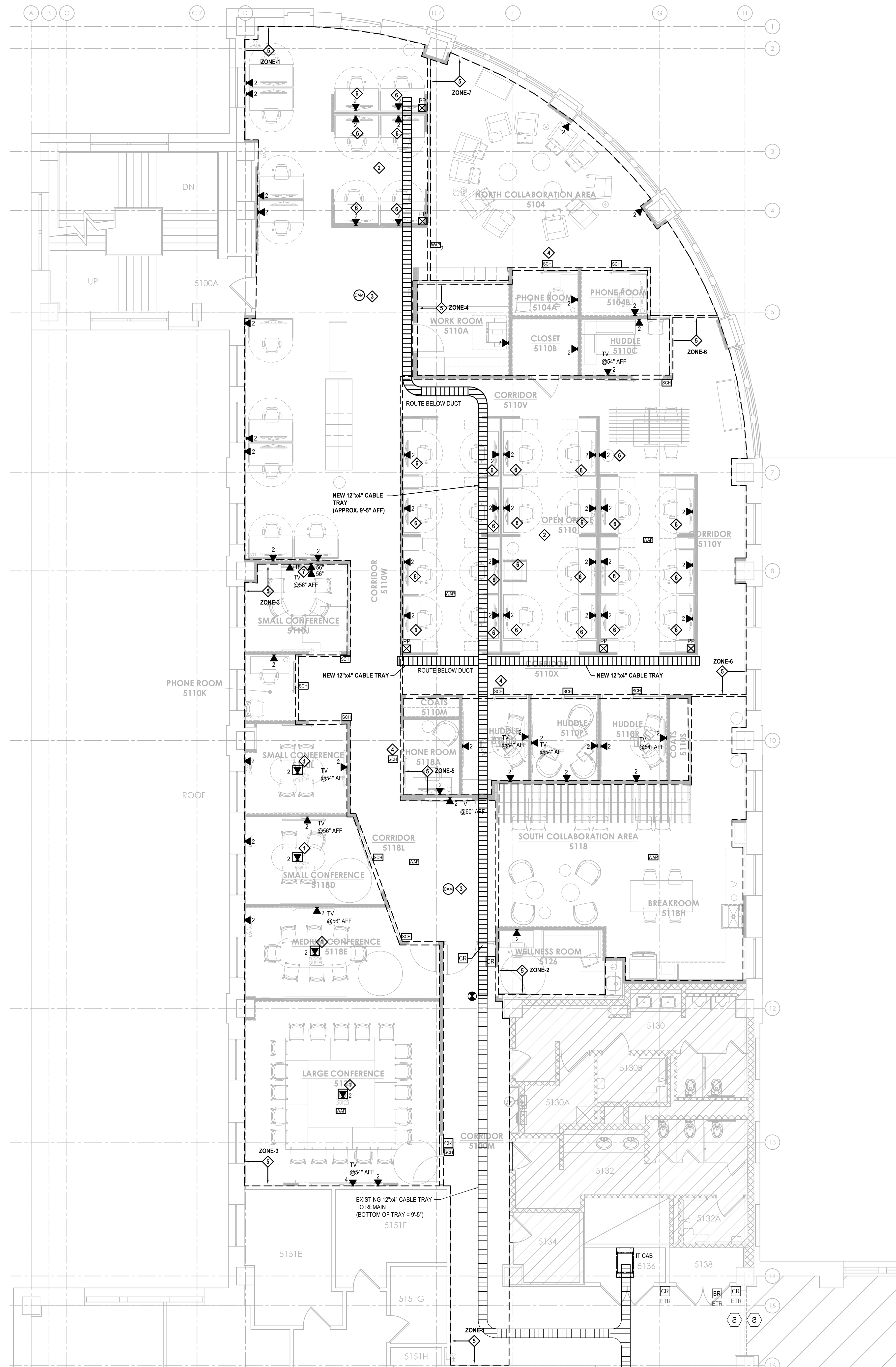
(Seal, if bid is by a corporation)

(Bidder's Printed Name)

Date: _____

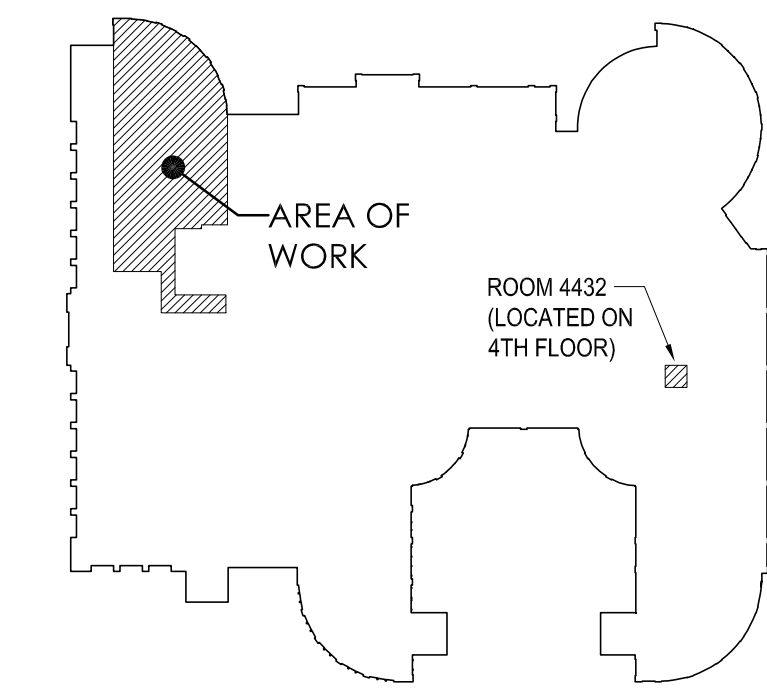
By _____
(Signature of Bidder)

[] Place an "X" in the box if Bidder is certified as a minority business enterprise or disabled veteran-owned business by the Wisconsin Supplier Diversity Program.



- GENERAL NOTES:**
- NEW CARD READERS TO BE CONNECTED TO NEW HEAD END EQUIPMENT. PRIOR TO INSTALLING 4X4 BACK BOXES FOR CARD READERS, CONTACT UW POLICE DEPARTMENT SECURITY SYSTEMS SPECIALIST FOR INSTRUCTIONS ON HEAD-END CONTROL PANEL LOCATIONS. NEW PANEL MAY BE REQUIRED UP TO 500 FT OUTSIDE PROJECT BOUNDARY. SEE KEYPLAN THIS SHEET FOR APPROXIMATE HEAD-END LOCATION.
 - REUSE FIRE ALARM AUDIO CIRCUITS TO THE EXTENT POSSIBLE. PROVIDE NEW AUDIO CIRCUITS AND CABLING FROM EXISTING FAC. ASSUME NEW AMPLIFIERS ARE REQUIRED. PROVIDE SHOP DRAWINGS INDICATING CODE-COMPLIANT PLACEMENT OF NEW SPEAKERS, STROGES, PULL STATIONS AND OTHER REQUIRED DEVICES.
 - NEW FIRE ALARM CABLES TO 5TH FLOOR SHALL BE 2 HOUR RATED.
 - WAPs TO BE PROVIDED BY UW DoIT AND WILL REQUIRE 2 DATA CONNECTION BY ELECTRICAL CONTRACTOR. COORDINATE LOCATIONS WITH DoIT PROJECT REPRESENTATIVE.
 - PROVIDE ALL CONNECTORS, HARDWARE, TRANSFORMERS, POWER SUPPLIES, RACK PANELS, INTERFACES, FASTENERS, WIRE HARNESSING MATERIALS, BUSHINGS AND ANY OTHER INCIDENTALS REQUIRED FOR COMPLETE AND PROPER FUNCTIONING OF THIS SYSTEM WHETHER SPECIFICALLY LISTED OR NOT.
 - PRIOR TO ROUGH-IN AT CAMERA LOCATIONS, THE CONTRACTOR SHALL DEMONSTRATE ALL CAMERA LOCATIONS FOR THE PURPOSES OF MAKING FINAL CAMERA POSITION AND LENS ADJUSTMENTS. CONTRACTOR SHALL PROVIDE 14-DAY NOTICE (MINIMUM) TO ALLOW FOR PARTICIPATION BY DFD, AGENCY STAFF AND ENGINEER. CONTACT KEVIN SOPHA, KEVIN.SOPHA@WIS.EDU, (608)284-6246.
 - THE CONTRACTOR MUST COORDINATE WAP ROUGH-IN LOCATIONS WITH THE DoIT PROJECT REPRESENTATIVE.
 - SCHEDULERS WILL REQUIRE ONE (1) DATA CONNECTION. THE CABLE SHALL BE IDENTIFIED WITH THE ROOM IT SERVES AND NOT WITH THE CORRIDOR NUMBER.
 - FOR SOUND MASKING (WHITE NOISE) SYSTEM, PROVIDE SUBMITTALS INDICATING MANUFACTURERS RECOMMENDED SPEAKER LAYOUT, SPEAKER TYPE, ONE-LINE WIRING DIAGRAM AND ALL HEAD-END EQUIPMENT. PROVIDE METHOD TO ADJUST SOUND LEVELS PER ZONE.

- KEYED NEW WORK NOTES:**
- DATA TERMINATIONS TO BE IN FLOOR BOXES
 - DATA JACKS TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. DATA PORTS TO HAVE A BEZEL INTO WHICH THE DATA JACKS ARE TO BE SEATED. FURNITURE VENDOR TO SUPPLY KNOCKOUT WITH KEYSTONE OPENINGS.
 - CONTRACTOR TO PROVIDE DATA CABLES. OWNER TO FURNISH CAMERAS. CAMERAS TO BE INSTALLED BY CONTRACTOR.
 - PROVIDE ONE DATA CABLE FOR EACH ROOM SCHEDULER.
 - PROVIDE SOUND MASKING (WHITE NOISE) SYSTEM IN ZONED AREAS AS INDICATED. PROVIDE HEAD-END EQUIPMENT IN TELECOM ROOM 5136.
 - DATA TO BE PROVIDED IN THE SYSTEMS FURNITURE BY ELECTRICAL CONTRACTOR WITH KEYSTONE STYLE JACKS AND FACEPLATES.
 - PROVIDE MUDRINGS WITH AV BRUSH PLATES, ONE AT 18" AFF AND THE OTHER DATA BEHIND MONITOR.



5TH FLOOR KEY PLAN

1 5TH FLOOR NEW WORK PLAN - ELECTRICAL SYSTEMS
 SCALE: 3/16" = 1'-0"
 12' 0" 1' 8" 16"

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 JOB NO. 22-10300B

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 21 N PARK STREET SUITE #6101
 MADISON, WI 53715



GRAINGER HALL 2ND & 5TH FLOOR RENOVATION
 PHASE 2 - 5TH FLOOR OFFICE RENOVATION
 UNIVERSITY OF WISCONSIN - MADISON
 975 UNIVERSITY AVENUE
 MADISON, WI 53706
 Sheet Title: 5TH FLOOR NEW WORK PLAN - ELECTRICAL SYSTEMS

Revisions:

No.	Date	Description
1	03/12/24	ADDENDUM 2

Graphic Scale	0" 1" 2" 4" 6" 8"
PRJ. Number	UW: MSN 0140-2303
UWSA:	A-22-021
Set Type	BD
Date Issued	02/20/2024
Sheet Number	ES101



3 EXISTING 5TH FLOOR PANELS 5/4Q, 5/Q SEC 2, 5/Q SEC 1 PHOTO
NO SCALE

LINE WEIGHT KEY	
	ALL ITEMS INDICATED BY A DARK SOLID LINE ARE NEW
	ALL ITEMS INDICATED BY A LIGHT SOLID LINE ARE EXISTING TO REMAIN
	ALL ITEMS INDICATED BY A DARK DASHED LINE ARE DEMO

ONE LINE DIAGRAMS	
SYMBOL	DESCRIPTION
	ELECTRICAL EQUIPMENT WITH DESIGNATION
	AUTOMATIC TRANSFER SWITCH
	MANUAL TRANSFER SWITCH
	CIRCUIT BREAKER
	DRAW-OUT POWER CIRCUIT BREAKER
	CONTACTOR
	SWITCH
	FUSE
	FUSED SWITCH
	POTENTIAL TRANSFORMER
	CURRENT TRANSFORMER
	TRANSFORMER
	METER
	INCOMING SERVICE
	BUS BAR
	FEEDER DESIGNATION
	DELTA
	WYE
	GROUND
	SURGE PROTECTIVE DEVICE

GENERAL NOTES:

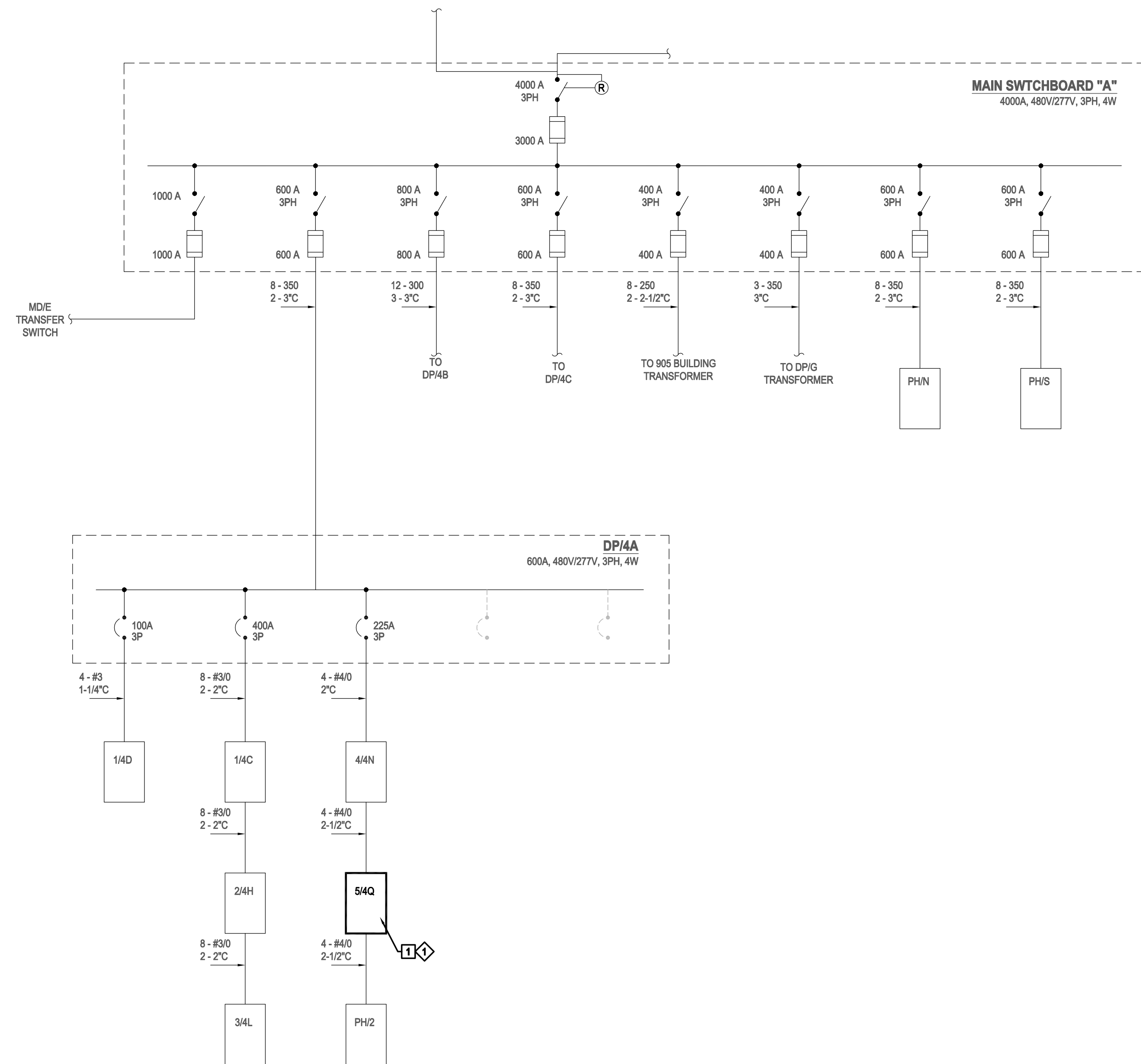
- POWER NOT TO BE DISRUPTED DURING NORMAL HOURS OF OPERATION; 7:00AM-7:00PM. ALL POWER OUTAGES SHALL BE SCHEDULED AFTER NORMAL BUSINESS HOURS AND COORDINATED WITH BUILDING MANAGER AND UW ELECTRIC SHOP PRIOR TO OUTAGE.

KEYED DEMOLITION NOTES:

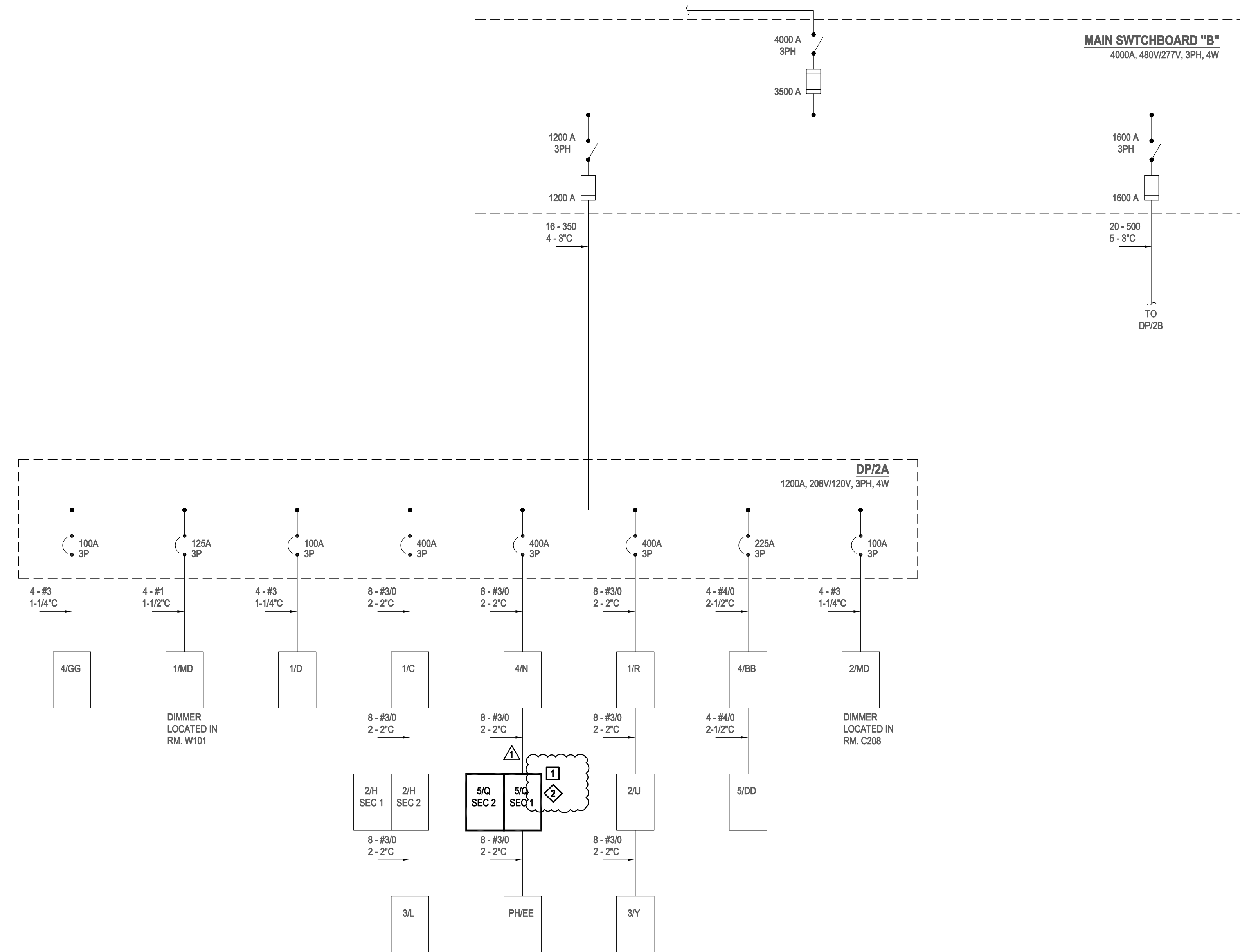
- REMOVE AND REPLACE PANEL BUS AND BREAKERS TO REDUCE ARC FLASH PROTECTION REQUIREMENTS. COORDINATE WITH OWNER FOR OUTAGE SCHEDULE.

KEYED NEW WORK NOTES:

- INSTALL PANEL BUS AND BREAKERS TO REDUCE ARC FLASH PROTECTION REQUIREMENTS. PROVIDE 22KA AIC RATING FOR PANEL. COORDINATE WITH OWNER FOR OUTAGE SCHEDULE.
- INSTALL PANEL BUS AND BREAKERS TO REDUCE ARC FLASH PROTECTION REQUIREMENTS. PROVIDE 14KA AIC RATING FOR PANEL. COORDINATE WITH OWNER FOR OUTAGE SCHEDULE.



2 PARTIAL ONE LINE DIAGRAM
NO SCALE



1 PARTIAL ONE LINE DIAGRAM
NO SCALE

Revisions:

No.	Date	Description
1	03/12/24	ADDENDUM 2

Graphic Scale	NTS
PRJ. Number	UW: MSN 0140-2303
UWSA: A-22-021	
Set Type	BD
Date Issued	02/20/2024
Sheet Number	E401

PANELBOARD NAME	VOLTAGE	PHASE	WIRE	BUS SIZE	MAIN	AC RATING
5/0 SECT 1 (NEW)	208 /120	3	4	225	MCB	10KA
LOCATION	FEED FROM	SOURCE LOCATION	# OF CKTS	MOUNT	NEMA ENCLOSURE	
RM 5138	DP12A		42	SURFACE	TYPE 1	
LOAD	CB ACCESS:	POLE BRK AMPS	VA	PHASE	VA	CB ACCESS:
RECP RTS RMS 5110E, 5110L, 5110H	1	20	1	0	A	0
RECP RTS RMS 5110H & 5110D ISO GR	1	20	3	0	B	0
UNIT HEATER STAIR A	1	20	5	0	C	0
RECP RTS RMS 51110, 5110G, 51115A, 5115, & 5100J	1	20	7	0	A	0
RECP RTS RMS 5110F, 5110G	1	20	9	0	B	0
RECP RTS RMS 5110 & 5110G ISO GR	1	20	11	0	C	0
RECP RTS RMS 5120 & 5110A	1	20	13	0	A	0
RECP RTS RM 5110A & 5110B	1	20	15	0	B	0
RECP RTS RM 5121	1	20	25	0	A	0
LITES RM 5110A	1	20	27	0	B	0
LITES RMS 5110L, 5120 NORTH	1	20	29	0	C	0
RECP RTS RMS 5110A, 5110I & 5120	1	20	31	0	A	0
NEW COPY MACHINE ROOM 5110	1	20	33	0	B	0
SPACE	-	-	35	0	C	0
SPACE	-	-	37	0	A	0
SPACE	-	-	39	0	B	0
SPACE	-	-	41	0	C	0
PANEL OPTIONS:	RECEPT-VA@	per NEC	-	TOTAL CALC LOAD VA =		0
LIGHTS STD-VA@	100%	-	-	ADJUSTED VA =		0
LIGHTS HOSP-VA@	per NEC	-	-	DEMAND AMPS =		0
LIGHTS WARE-VA@	per NEC	-	-	ADJUSTED EXIST. KW =		0
MOTOR-VA@	100%	-	-	LRG MOTOR LOAD VA =		0
KITCHEN-VA@	100%	-	-	# OF ELEVS(S) =		0
X-RAY-VA@	per NEC	-	-	# OF KITCHEN EQUIP =		0
HEATING EQ-VA@	100%	-	-	SUB-FEED PANEL(S) =		0
COOLING EQ-VA@	100%	-	-	25% GROWTH FACTOR =		0
ELEVATOR-VA@	100%	-	-	TOTAL DESIGN AMPS =		0
MSC-VA@	100%	-	-			0

PANELBOARD NAME	VOLTAGE	PHASE	WIRE	BUS SIZE	MAIN	AC RATING
5/0 SECT 1 (NEW)	208 /120	3	4	225	MCB	10KA
LOCATION	FEED FROM	SOURCE LOCATION	# OF CKTS	MOUNT	NEMA ENCLOSURE	
RM 5138	DP12A		42	SURFACE	TYPE 1	
LOAD	CB ACCESS:	POLE BRK AMPS	VA	PHASE	VA	CB ACCESS:
RECP RTS RMS 5110	1	20	1	1,980	A	1,440
RECP RTS RMS 5110	1	20	3	2,160	B	1,440
UNIT HEATER STAIR A	1	20	5	0	C	1,620
RECP RTS 5104, AB, 5110C	1	20	7	1,980	A	1,440
RECP RTS 510A, 5110B	1	20	9	1,800	B	1,440
RECP RTS RMS 5110	1	20	11	1,440	C	1,440
CORRIDOR 5110Y	1	20	13	1,440	A	1,260
RECP RTS 5110L	1	20	15	1,800	B	1,800
RECP RTS 5118A, 5110M,N	1	20	17	1,620	C	1,923
RECP RTS 5110P,R	1	20	19	1,620	A	1,923
RECP RTS 5118D,E	1	20	21	1,980	B	0
RECP RTS 5133	1	20	23	1,980	C	0
RECP RTS 5126	1	20	25	900	A	0
LITES RM 5110, AB, W, 5104, A, B, C	1	20	27	1,923	B	0
SPACE	1	20	29	0	C	0
SPACE	1	20	31	0	A	0
SPACE	1	20	33	0	B	0
SPACE	-	-	35	0	C	0
SPACE	-	-	37	0	A	0
SPACE	-	-	39	0	B	0
SPACE	-	-	41	0	C	0
PANEL OPTIONS:	RECEPT-VA@	per NEC	20,840	TOTAL CALC LOAD VA =		37,440
LIGHTS STD-VA@	100%	5,769	-	ADJUSTED VA =		26,809
LIGHTS HOSP-VA@	per NEC	-	-	DEMAND AMPS =		74
LIGHTS WARE-VA@	per NEC	-	-	ADJUSTED EXIST. KW =		0
MOTOR-VA@	100%	0	-	LRG MOTOR LOAD VA =		0
KITCHEN-VA@	100%	-	-	# OF ELEVS(S) =		0
X-RAY-VA@	per NEC	-	-	# OF KITCHEN EQUIP =		0
HEATING EQ-VA@	100%	-	-	SUB-FEED PANEL(S) =		18
COOLING EQ-VA@	100%	-	-	25% GROWTH FACTOR =		18
ELEVATOR-VA@	100%	-	-	TOTAL DESIGN AMPS =		74
MSC-VA@	100%	-	-			0

PANELBOARD NAME	VOLTAGE	PHASE	WIRE	BUS SIZE	MAIN	AC RATING
5/0 SECT 2 (DEM)	208 /120	3	4	225	MCB	10KA
LOCATION	FEED FROM	SOURCE LOCATION	# OF CKTS	MOUNT	NEMA ENCLOSURE	
RM 5138	DP12A		42	SURFACE	TYPE 1	
LOAD	CB ACCESS:	POLE BRK AMPS	VA	PHASE	VA	CB ACCESS:
RECP RTS RMS 5151F, 5151G, ISO GR	1	20	1	0	A	0
RECP RTS RMS 5151F, 5151EM 5151G	1	20	3	0	B	0
RECP RTS RM 5138	1	20	5	0	C	0
RECP RTS RM 5124 REF FREEZER	1	20	7	0	A	0
LITES RM 5130B, 5132A	1	20	9	0	B	0
LITES ELEV LOBBY 5100L	1	20	11	0	C	0
SPACE	-	-	13	0	A	0
RECP RTS RMS 5124 COFFEE MACHINE	1	20	15	0	B	0
SPACE	-	-	17	0	C	0
SPACE	-	-	19	0	A	0
SPACE	-	-	21	0	B	0
SPACE	-	-	23	0	C	0
SPACE	-	-	25	0	A	0
SPACE	-	-	27	0	B	0
SPACE	-	-	29	0	C	0
SPACE	-	-	31	0	A	0
SPACE	-	-	33	0	B	0
SPACE	-	-	35	0	C	0
SPACE	-	-	37	0	A	0
SPACE	-	-	39	0	B	0
SPACE	-	-	41	0	C	0
PANEL OPTIONS:	RECEPT-VA@	per NEC	-	TOTAL CALC LOAD VA =		0
LIGHTS STD-VA@	100%	-	-	ADJUSTED VA =		0
LIGHTS HOSP-VA@	per NEC	-	-	DEMAND AMPS =		0
LIGHTS WARE-VA@	per NEC	-	-	ADJUSTED EXIST. KW =		0
MOTOR-VA@	100%	-	-	LRG MOTOR LOAD VA =		0
KITCHEN-VA@	100%	-	-	# OF ELEVS(S) =		0
X-RAY-VA@	per NEC	-	-	# OF KITCHEN EQUIP =		0
HEATING EQ-VA@	100%	-	-	SUB-FEED PANEL(S) =		0
COOLING EQ-VA@	100%	-	-	25% GROWTH FACTOR =		0
ELEVATOR-VA@	100%	-	-	TOTAL DESIGN AMPS =		0
MSC-VA@	100%	-	-			0

PANELBOARD NAME	VOLTAGE	PHASE	WIRE	BUS SIZE	MAIN	AC RATING
5/0 SECT 2 (NEW)	208 /120	3	4	225	MCB	10KA
LOCATION	FEED FROM	SOURCE LOCATION	# OF CKTS	MOUNT	NEMA ENCLOSURE	
RM 5138	DP12A		42	SURFACE	TYPE 1	
LOAD	CB ACCESS:	POLE BRK AMPS	VA	PHASE	VA	CB ACCESS:
RECP RTS RMS 5151F, 5151G, ISO GR	1	20	1	0	A	0
RECP RTS RMS 5151F, 5151EM 5151G	1	20	3	0	B	0
RECP RTS RM 5138	1	20	5	0	C	0
SOUND MASKING PANEL	1	20	7	0	A	0
LITES RM 5130B, 5132A	1	20	9	0	B	0
LITES ELEV LOBBY 5100L	1	20	11	0	C	0
SPACE	-	-	13	0	A	0
SPACE	-	-	15	0	B	0
SPACE	-	-	17	0	C	0
SPACE	-	-	19	0	A	0
SPACE	-	-	21	0	B	0
SPACE	-	-	23	0	C	0
SPACE	-	-	25	0	A	0
SPACE	-	-	27	0	B	0
SPACE	-	-	29	0	C	0
SPACE	-	-	31	0	A	0
SPACE	-	-	33	0	B	0
SPACE	-	-	35	0	C	0
SPACE	-	-	37	0	A	0
SPACE	-	-	39	0	B	0
SPACE	-	-	41	0	C	0
PANEL OPTIONS:	RECEPT-VA@	per NEC	-	TOTAL CALC LOAD VA =		0
LIGHTS STD-VA@	100%	-	-	ADJUSTED VA =		0
LIGHTS HOSP-VA@	per NEC	-	-	DEMAND AMPS =		0
LIGHTS WARE-VA@	per NEC	-	-	ADJUSTED EXIST. KW =		0
MOTOR-VA@	100%	-	-	LRG MOTOR LOAD VA =		0
KITCHEN-VA@	100%	-	-	# OF ELEVS(S) =		0
X-RAY-VA@	per NEC	-	-	# OF KITCHEN EQUIP =		0
HEATING EQ-VA@	100%	-	-	SUB-FEED PANEL(S) =		0
COOLING EQ-VA@	100%	-	-	25% GROWTH FACTOR =		0
ELEVATOR-VA@	100%	-	-	TOTAL DESIGN AMPS =		0
MSC-VA@	100%	-	-			0

PANELBOARD NAME	VOLTAGE	PHASE	WIRE	BUS SIZE	MAIN	AC RATING
5/0 (DEM)	480 /277	3	4	100	MCB	10KA
LOCATION	FEED FROM	SOURCE LOCATION	# OF CKTS	MOUNT	NEMA ENCLOSURE	
RM 5138	DP14A		42	SURFACE	TYPE 1	
LOAD	CB ACCESS:	POLE BRK AMPS	VA	PHASE	VA	CB ACCESS:
LTS RMS 5194, 5186, 5184, 5176, 5172, 5168	1	20	1	0	A	0
LTS RMS 5193, 5191E, 5191A, 5191D, 5181C, 5181B, 5181D	1	20	3	0	B	0
LTS RMS 5181M, 5181B, 5171, 5151K, 5161, 5151L, 5151J	1	20	5	0	C	0
LITES RMS 5115, 5110G, 5110F, 5110E, 5110D, 5110C, 5110B, 5110A	1	20	7	0	A	0
SPACE	1	20	9	0	B	0
SPACE	1	20	11	0	C	0
SPACE	1	20	13	0	A	0
SPACE	1	20	15	0	B	0
SPACE	1	20	17	0	C	0
SPACE	1	20	19	0	A	0
SPACE	1	20	21	0	B	0
SPACE	1	20	23	0	C	0
SPACE	1	20	25	0	A	0
SPACE	1	20	27	0	B	0
SPACE	1	20	29	0	C	0
SPACE	1	20	31	0	A	0
SPACE	1	20	33	0	B	0
SPACE	1	20	35	0	C	0
SPACE	1	20	37	0	A	0
SPACE	1	20	39	0	B	0
SPACE	1	20	41	0	C	0
PANEL OPTIONS:	RECEPT-VA@	per NEC	-	TOTAL CALC LOAD VA =		0
LIGHTS STD-VA@	100%	-	-	ADJUSTED VA =		0
LIGHTS HOSP-VA@	per NEC	-	-	DEMAND AMPS =		0
LIGHTS WARE-VA@	per NEC	-	-	ADJUSTED EXIST. KW =		0
MOTOR-VA@	100%	-	-	LRG MOTOR LOAD VA =		0
KITCHEN-VA@	100%	-	-	# OF ELEVS(S) =		0
X-RAY-VA@	per NEC	-	-	# OF KITCHEN EQUIP =		0
HEATING EQ-VA@	100%	-	-	SUB-FEED PANEL(S) =		0
COOLING EQ-VA@	100%	-	-	25% GROWTH FACTOR =		0

GENERAL RCP NOTES

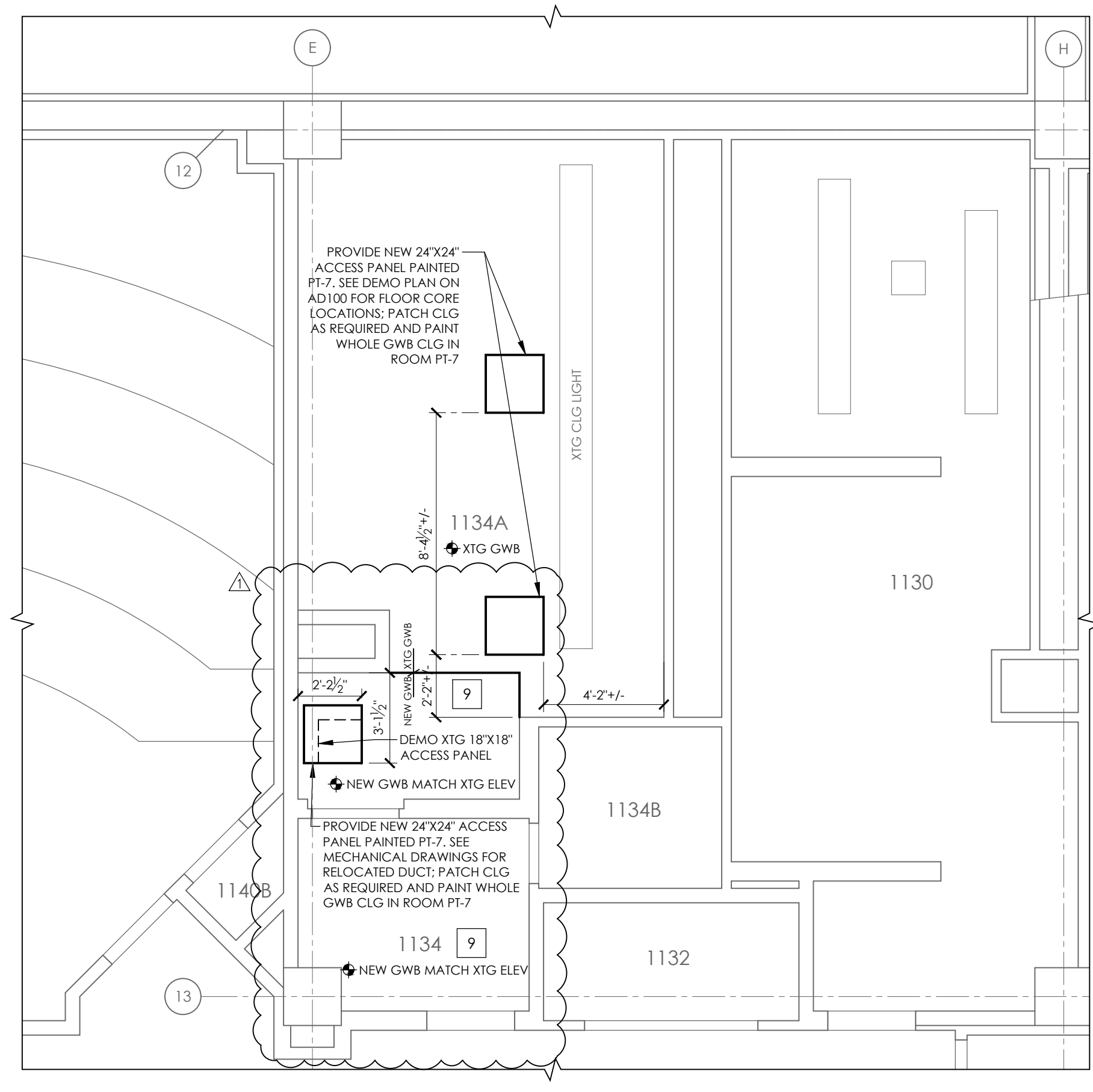
- REFLECTED CEILING PLAN IS FOR LAYOUT PURPOSES ONLY. COORDINATE FINAL LOCATIONS WITH ALL DISCIPLINES.
- SEE TITLE SHEET FOR ADDITIONAL PROJECT NOTES & SHEET INDEX.
- ALL CEILING GRIDS SHALL BE CENTERED IN SPACE AS SHOWN (UNO).
- CENTER ALL LIGHT FIXTURES, OCCUPANCY SENSORS, SPRINKLER HEADS, ETC. IN CEILING TILE (UNO).
- ALL XTG SOFFITS TO REMAIN TO BE PAINTED PT-11 UNLESS OTHERWISE NOTED.
- ALL EXPOSED DUCTWORK, SPRINKLER PIPES, AND OTHER PIPES IN EXPOSED CEILING AREAS TO BE PREPARED FOR PAINT AND PAINTED PT-12. SEE FINISH SCHEDULE.
- SEE ELECTRICAL SHEETS FOR ELECTRICAL & LIGHTING INFORMATION.
- SEE FIRE PROTECTION SHEETS FOR SPRINKLER SYSTEM INFORMATION.
- SEE MECHANICAL/HVAC SHEETS FOR MECHANICAL INFORMATION.
- G.P.C. TO COORDINATE WITH MECHANICAL CONTRACTOR TO TEMPORARILY REMOVE AND RE-INSTALL EXISTING CEILING OUTSIDE OF PROJECT SCOPE FOR NEW WORK. SEE MECHANICAL DRAWINGS FOR LOCATIONS.
- LIGHT FIXTURES IN EXPOSED CEILING AREAS TO BE CENTERED ON JOIST ABOVE UNLESS NOTED OTHERWISE. ALL LIGHTING TO BE ON DIMMERS.

KEYNOTES

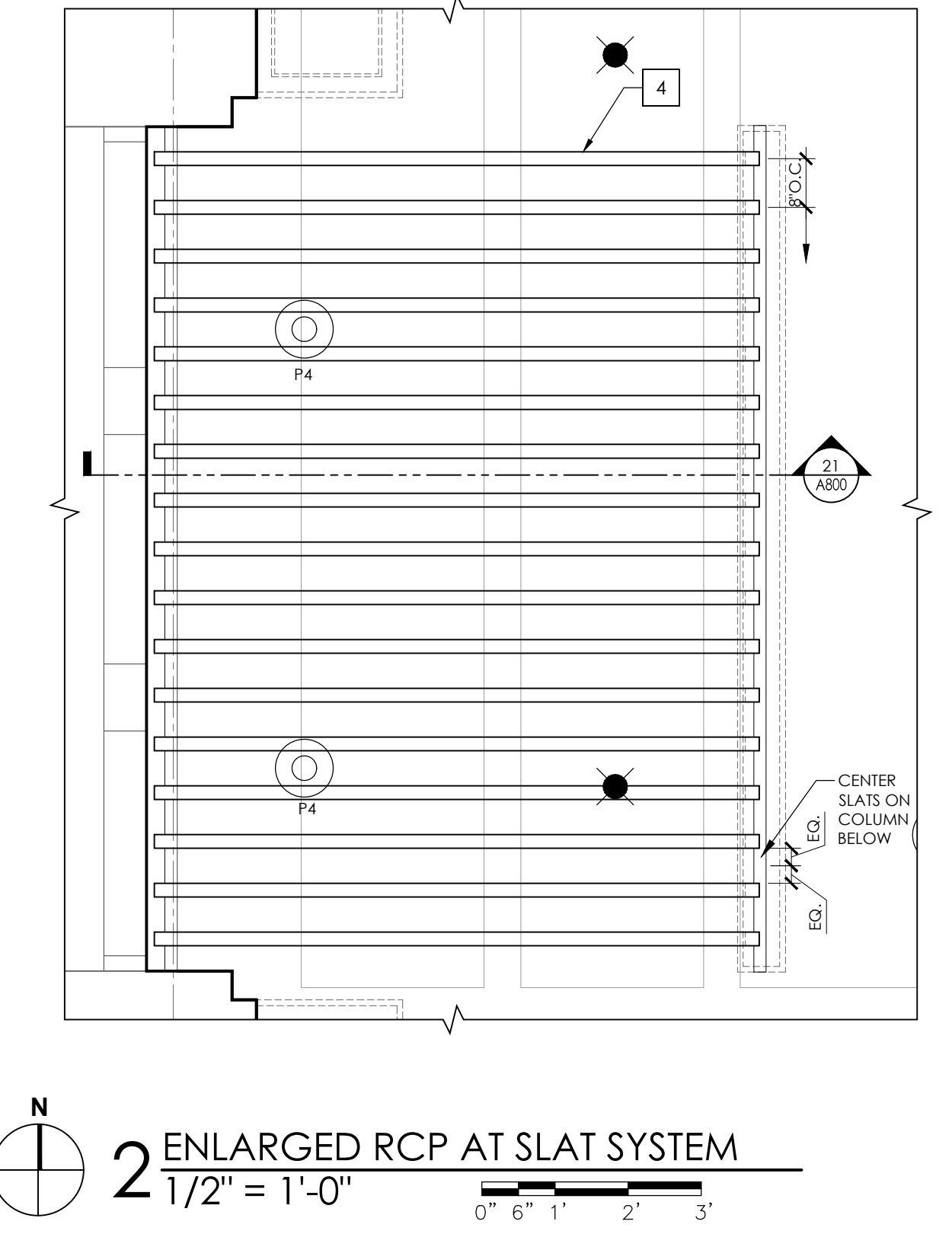
- AS-1 SUSPENDED FROM EXPOSED CLG 9'-4" A.F.F
- AS-2 SUSPENDED FROM EXPOSED CLG 9'-4" A.F.F
- AS-3 SUSPENDED FROM EXPOSED CLG 8'-7" A.F.F
- SLAT SYSTEM. SEE ASSOCIATED INTERIOR ELEVATIONS AND DETAILS
- RECESSED PROJECTOR. SEE ASSOCIATED DETAIL
- REPAIR XTG GWB SOFFIT. PAINT GWB PT-11 AND MATCH GWB TEXTURE OF XTG SOFFIT
- GWB AT COVE LIGHT CONDITIONS IN ROOM TO BE PAINTED PT-6
- NEW GWB AT XTG FRAMING PAINTED PT-4
- GPC TO DEMO THE GWB CEILING AS NEEDED FOR THE ABOVE CEILING PLUMBING AND MECHANICAL WORK. GPC TO INSTALL NEW GWB AND PAINT THE ENTIRE CEILING PT-7.

RCP LEGEND

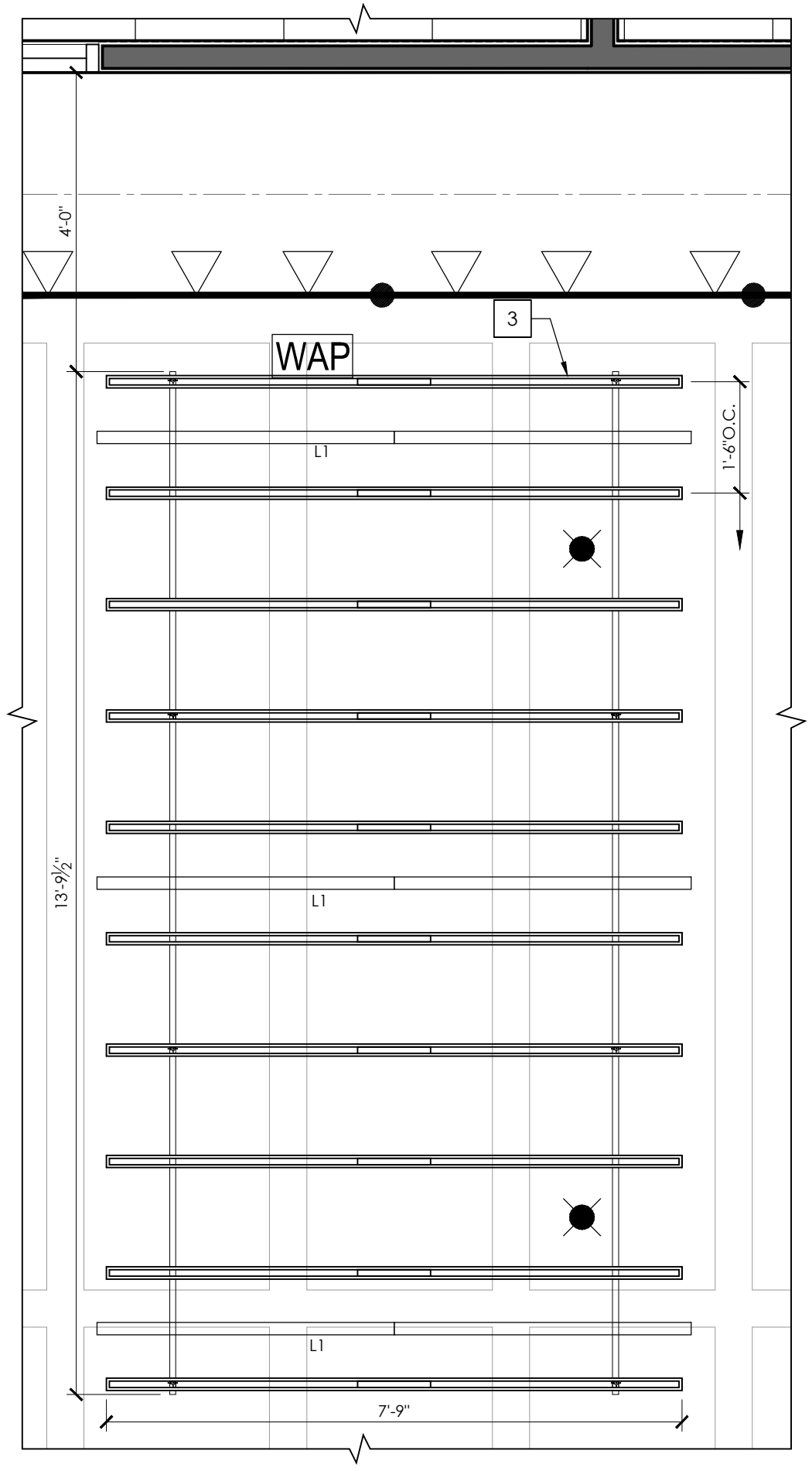
- 4" WALL WASHER - SEE ELECTRICAL DRAWINGS
- 4" LED RECESSED CAN LIGHT - SEE ELECTRICAL DRAWINGS
- LED WALL SCONCE, MOUNTED 3'-4" A.F.F TO B.O. FIXTURE - SEE ELECTRICAL DRAWINGS
- LINEAR WALL SCONCE MOUNTED PER ASSOCIATED INTERIOR ELEVATIONS - SEE ELECTRICAL DRAWINGS
- LED WALL SCONCE, MOUNTED 8" TO C.O. FIXTURE FROM B.O. GWB SKYLIGHT SOFFIT - SEE ELECTRICAL DRAWINGS
- SUSPENDED LINEAR LED; MOUNTED 9'-3" A.F.F. UNLESS OTHERWISE NOTED - SEE REFLECTED CEILING PLAN ELECTRICAL DRAWINGS
- RECESSED DIRECT INDIRECT LINEAR LED - SEE ELECTRICAL DRAWINGS
- CYLINDER PENDANT LIGHT, MOUNTED 10'-0" A.F.F. TO B.O. FIXTURE - SEE ELECTRICAL DRAWINGS
- DECORATIVE PENDANT LIGHT, MOUNTING HEIGHT VARIES - SEE REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS
- DECORATIVE PENDANT LIGHT, MOUNTED 6'-0" A.F.F. TO B.O. FIXTURE - SEE ELECTRICAL DRAWINGS
- DECORATIVE PENDANT LIGHT, MOUNTED 5'-10" A.F.F. TO CENTER OF FIXTURE - SEE ELECTRICAL DRAWINGS
- LED LIGHT CLOSET LIGHT - SEE ELECTRICAL DRAWINGS
- LED COVE LIGHT - SEE ELECTRICAL DRAWINGS
- UNDER CABINET LIGHT - SEE ELECTRICAL DRAWINGS
- TRACK LIGHTING; MOUNTING HEIGHT VARIES - SEE REFLECTED CEILING PLAN ELECTRICAL DRAWINGS
- OCCUPANCY SENSOR - SEE ELECTRICAL DRAWINGS
- EXIT SIGN - SEE ELECTRICAL DRAWINGS
- ROUGH-IN FOR FUTURE CAMERA - SEE ELECTRICAL DRAWINGS
- WIRELESS ACCESS POINT - SEE ELECTRICAL DRAWINGS
- SPRINKLER HEAD - SEE FIRE SUPPRESSION DRAWINGS
- RETURN AIR DUCT - SEE MECHANICAL DRAWINGS
- SUPPLY AIR DUCT - SEE MECHANICAL DRAWINGS
- EXHAUST - SEE MECHANICAL DRAWINGS
- CLG SPEAKER O.F.O.I BY OWNERS REF AVI
- WHITE NOISE MACHINE - SEE ELECTRICAL DRAWINGS
- O.F.O.I MICROPHONE - SEE ELECTRICAL DRAWINGS
- O.F.O.I PROJECTOR - SEE ELECTRICAL DRAWINGS



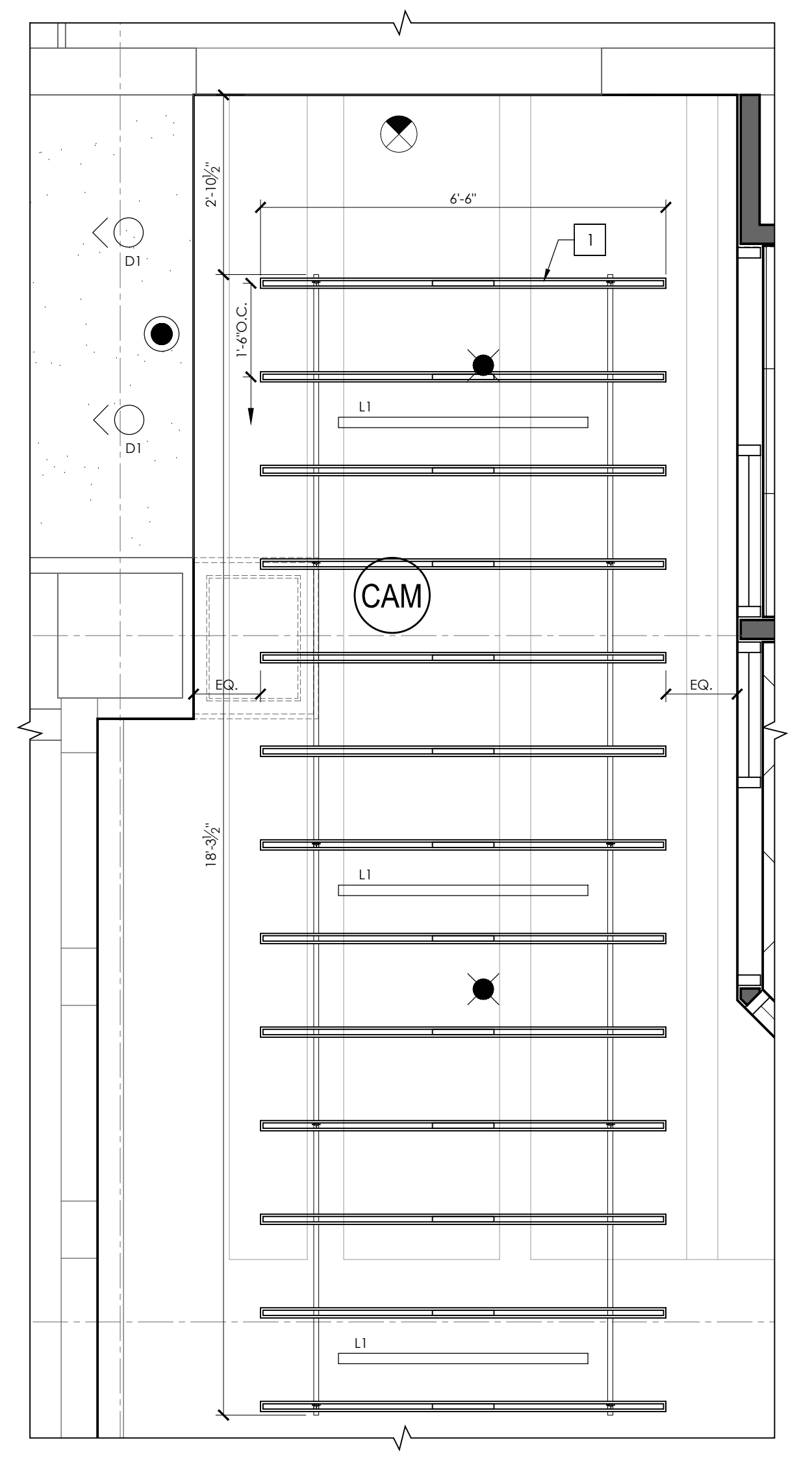
4 ENLARGED 1ST FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"



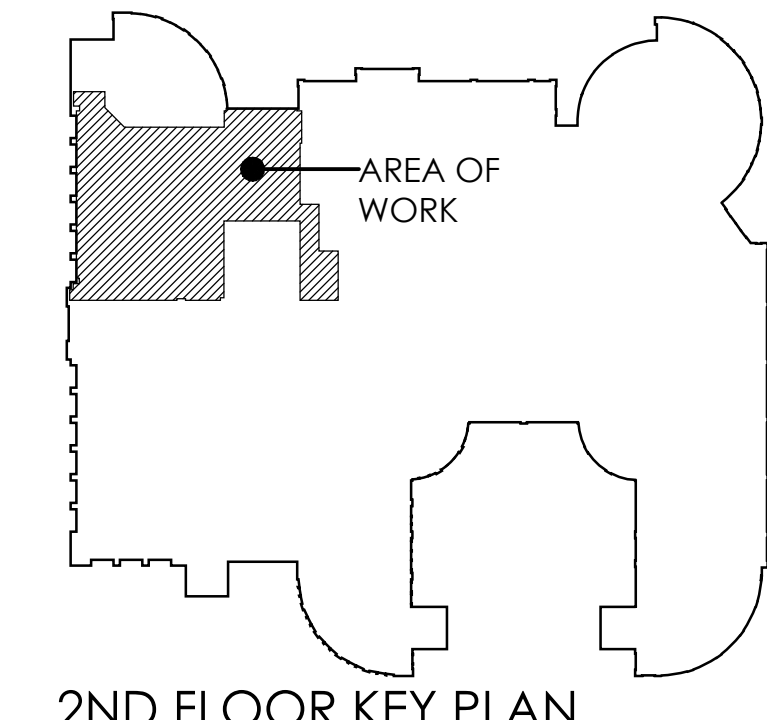
2 ENLARGED RCP AT SLAT SYSTEM
1/2" = 1'-0"



3 ENLARGED RCP AT CEILING ELEMENT AS-3
1/2" = 1'-0"



1 ENLARGED RCP AT CEILING ELEMENT AS-1
1/2" = 1'-0"



2ND FLOOR KEY PLAN

Revisions:

No.	Date	Description
1	03/12/24	ADDENDUM 2

Graphic Scale	VARIABLE
PRJ. Number	UW: MSN 0140-2303 UWSA: A-22-021
Set Type	BD
Date Issued	02/20/2024
Sheet Number	A201

ELECTRICAL ABBREVIATIONS			
A	AMPERE	MMS	MANUAL MOTOR STARTER SWITCH
AC	ABOVE COUNTER	MOA	MULTI-OUTLET ASSEMBLY
AFF	ABOVE FINISHED FLOOR	MPS	MOTORIZED PROJECTION SCREEN
AIC	AMPERE INTERRUPTING CAPACITY	MTR	MOTOR RATED TOGGLE SWITCH
ACT	ACOUSTICAL CEILING TILE	MTR	MOTOR
AL	ALUMINUM	MC	MECHANICAL CONTRACTOR
ARCH	ARCHITECT, ARCHITECTURE	MFR	MANUFACTURER
ATS	AUTOMATIC TRANSFER SWITCH	MWS	MOTORIZED WINDOW SHADE
AUX	AUXILIARY	NC	NORMALLY CLOSED
AV	AUDIO - VISUAL	NO	NORMALLY OPEN
AP	ACCESS PANEL	NEC	NATIONAL ELECTRICAL CODE
BC	BELOW COUNTER	NEMA	NATIONAL ELECTRICAL MFG'S ASSOC.
BTM	BOTTOM	NF	NON-FUSED SAFETY SWITCH
C	CONDUIT	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	nl	NIGHT LIGHT
CCTV	CLOSED CIRCUIT TELEVISION	NTS	NOT TO SCALE
CLG	CEILING	O.C.	ON CENTER
COFF	COFFEE MAKER	OL	OVERLOADS
CRT	CATHODE-RAY TUBE	P	POLE
CT	CURRENT TRANSFORMER	PF	POWER FACTOR
CJ	COPPER	PH	PHASE
CTR	COUNTER	PNL	PANEL
DC	DIRECT CURRENT	PP	PUSH PLATE, AUTO DOOR OPERATOR
DED	DEDICATED	PB	PULL BOX
DISC	DISCONNECT	PR	PRIMARY
DO	DOOR OPERATOR, POWERED	PT	POTENTIAL TRANSFORMER
DN	DOWN	PVC	POLYVINYL CHLORIDE
DW	DISHWASHER	PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR	RMC	RIGID METALLIC CONDUIT
ECB	ENCLOSED CIRCUIT BREAKER	REF	REFRIGERATOR
ELEC	ELECTRIC, ELECTRICAL	REQD	REQUIRED
EM	EMERGENCY	RVT	REDUCED VOLTAGE TRANSFORMER
EMT	ELECTRICAL METALLIC TUBING	SN	SOLID NEUTRAL
EQ	EQUIPMENT	SPEC	SPECIFICATION
EWC	ELECTRIC WATER COOLER	SPKR	SPEAKER
ETR	EXISTING TO REMAIN	SP	SPARE
EX	EXISTING	SPD	SPURGE PROTECTION DEVICE
EF	EXHAUST FAN	SW	SWITCH
EPO	EMERGENCY POWER OFF	SWBD	SWITCHBOARD
EXT	EXTERIOR	SWGR	SWITCHGEAR
FA	FIRE ALARM	SOFT	SOFT FOOT
FLR	FLOOR	SS	STAINLESS STEEL
FVNR	FULL VOLTAGE NON-REVERSING	SC	SECURITY CONTRACTOR
FD	FIRE DEPARTMENT	TEL	TELEPHONE
FSD	FIRE SMOKE DAMPER	TERM	TERMINAL
F	FUSED SAFETY SWITCH	XFMR	TRANSFORMER
F	FURNITURE BASE FEED	TC	TIME CLOCK
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TCP	TEMPERATURE CONTROL PANEL
G	GROUND	TV	TELEVISION
GND, GRD	GROUND	TYP	TYPICAL
GC	GENERAL CONTRACTOR	EU	UNDERGROUND ELECTRICAL
GD	GARBAGE DISPOSAL, SINK MOUNTED	UG	UNDERGROUND
HDA	HAND-OFF-AUTOMATIC SWITCH	UH	UNIT HEATER
HP	HORSEPOWER	UT	UNDERGROUND TELEPHONE
HV	HIGH VOLTAGE	UCO	UNLESS OTHERWISE DENOTED
HC	HEATING CONTRACTOR	V	VOLT
HD	HAND DRYER	VA	VOLT AMPERES
HVAC	HEATING, VENTILATING, AIR CONDITIONING	VFD	VARIABLE FREQUENCY DRIVE
IMC	INTERMEDIATE METALLIC CONDUIT	VOL	VOLUME
JB	JUNCTION BOX	VC	VENTILATION CONTRACTOR
KV	KILOVOLT	W	WATT
KVA	KILOVOLT-AMPERE	W	WITH
KVAR	KILOVOLT-AMPERE REACTIVE	WO	WITHOUT
KWH	KILOWATT HOUR	WG	WIRE GUARD/PROTECTIVE SHIELDING
KW	KILOWATT	WP	WEATHERPROOF
LV	LOW VOLTAGE	2SW	2 SPEED SINGLE WINDING
MCC	MOTOR CONTROL CENTER	2SW	2 SPEED DOUBLE WINDING
MCP	MOTOR CIRCUIT PROTECTOR	TFA	TO FLOOR ABOVE
MCB	MAIN CIRCUIT BREAKER	TFB	TO FLOOR BELOW
MICRO	MICROWAVE OVEN	UCR	UNDERCOUNTER REFRIGERATOR
MIN	MINIMUM	DIV. 26	DIVISION 26 CONTRACTOR
MISC	MISCELLANEOUS		
MLO	MAIN LUGS ONLY		
MCS	MOLDED CASE SWITCH		

NOTE: THIS IS A COMPOSITE LIST OF ABBREVIATIONS, NOT ALL PERTAIN SPECIFICALLY TO THIS JOB.

GENERAL NEW WORK NOTES:

- 1) ALL BRANCH CIRCUITS SHALL HAVE EQUIPMENT GROUND CONDUCTORS.
- 2) THE ELECTRICAL CONTRACTOR SHALL PROVIDE, IF REQUIRED, ADJUSTMENTS (4" & 4" IN THE LOCATION OF ALL SYSTEM DEVICES, FIXTURES, OUTLETS, PANELS, ETC. IN ORDER TO EXPEDITE THE ELECTRICAL WORK. THE POSITION OF ALL WORK AS SHOWN IS INTENDED TO BE FIXED AND IN THE PROPER LOCATION. SUCH REQUIRED ADJUSTMENT SHALL BE DETERMINED BY THE A.E.
- 3) PROVIDE SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT PHASE CONDUCTOR.
- 4) SEE ARCHITECTURAL SHEETS FOR EXACT LOCATION OF DEVICES. DEVICES SHOWN ON ARCHITECTURAL ELEVATIONS. COORDINATE LOCATION OF DEVICES WITH ARCHITECT'S FIELD PERSON TO ENSURE PROPER LOCATION AND HEIGHT.
- 5) WHERE NEW DEVICES ARE SHOWN THE ELECTRICAL CONTRACTOR SHALL DO ALL CUTTING. THE GENERAL CONTRACTOR SHALL DO ALL PATCHING AND PAINTING OF EXISTING WALLS. THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EXISTING WALL CONSTRUCTION.
- 6) SMOKE DETECTORS SHALL BE MOUNTED A MINIMUM OF 6'-0" FROM EACH AIR SUPPLY DIFFUSER.

GENERAL ELECTRICAL DEMOLITION REQUIREMENTS:

- 1) ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN DEMOLITION, REMOVAL, CAPPING, STORING, ABANDONING, DISCONNECTING, RELOCATING AND RECONNECTION OF EXISTING ELECTRICAL EQUIPMENT AND MATERIAL. ALL CUTTING, PATCHING, REPAIRING, REPLACEMENT AND REFINISHING, SHALL MATCH THE EXISTING CONSTRUCTION AS NEARLY AS POSSIBLE.
- 2) EXCEPT WHERE OTHERWISE SHOWN OR NOTED ON DRAWING, TO BE RETAINED, RELOCATED OR HERINAFTER NOTED, ALL EXISTING ELECTRICAL EQUIPMENT AND MATERIAL IN AREAS TO BE REMODELED/ALTERED SHALL BE REMOVED WHERE THEY INTERFERE WITH PROPOSED NEW CONSTRUCTION AND/OR INTERFERE WITH PROPOSED USAGE OF SPACE BY OWNER AS FOLLOWS:
 - A) REMOVE ANY CONDUITS PROTRUDING ABOVE FINISHED FLOOR, CAP AND FINISH OVER WITH FLOOR MATERIAL TO MATCH EXISTING.
 - B) REMOVE ALL LIGHT FIXTURES, RECEPTACLES, SWITCHES, ETC. AND ASSOCIATED WIRING. REMOVE ALL SURFACE MOUNTED CONDUIT/SOXES AND THEIR ASSOCIATED WIRING.
 - C) REMOVE ALL CONCEALED RACEWAYS, BOXES AND WIRING FROM PARTITIONS BEING DEMOLISHED.
 - D) REMOVE ALL EXISTING WIRING/CABLING FROM ALL EXISTING CONCEALED RACEWAYS IN PARTITION THAT ARE TO REMAIN.
 - E) ANY FEEDERS, CONDUITS, BRANCH CIRCUITS, SIGNAL AND TELEPHONE CIRCUITS, ETC. PASSING THROUGH THE REMODELED AREAS TO SERVE (OR BE SERVED FROM) EXISTING ADJACENT, REMOTE OR SURROUNDING AREAS THAT ARE TO REMAIN, SHALL BE RETAINED AND KEPT OPERATIONAL AND SHALL BE REROUTED IN ALL CASES WHERE THEY INTERFERE WITH ANY NEW WORK OR USAGE TO BE ACCOMPLISHED IN THE REMODELED AREA.
 - F) WHERE DEVICES ARE OMITTED FROM PRESENT BRANCH CIRCUITS, THE REMAINING DEVICES SHALL BE REWIRED, IF NEEDED AND AS REQUIRED, TO REMAIN ON THEIR RESPECTIVE CIRCUITS AND IN OPERATING CONDITION.
- 3) ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS TO FAMILIARIZE HIMSELF WITH EXTENT OF ALTERATION/REMODELING WORK AND MORE SPECIFICALLY NOTE WHERE NEW PARTITIONING IS BEING INSTALLED, WHERE EXISTING PARTITIONING IS BEING REMOVED, WHERE CEILING ARE BEING REMOVED AND OR REPLACED, ETC.
- 4) ALL WIRING (POWER, LIGHTING) NOT REUSED FOR REMODELING AREAS SHALL BE COMPLETELY REMOVED BACK TO ASSOCIATED PANELS.

FIRE ALARM SYSTEM

SYMBOL	DESCRIPTION
[FACP]	FIRE ALARM CONTROL PANEL
[FANP]	FIRE ALARM ANNUNCIATOR PANEL
[BATT]	REMOTE BATTERY CABINET
[MAC]	NOTIFICATION APPLIANCE CIRCUIT EXTENDER
[AMP]	AMPLIFIER CABINET, AUDIO RISER CABINET
[FAPS]	FIRE ALARM PULL STATION
[MH]	FIRE ALARM MINI HORN
[HS]	FIRE ALARM HORN/STROBE
[S]	FIRE ALARM SPEAKER
[S]	FIRE ALARM SPEAKER/STROBE
[S]	FIRE ALARM SPEAKER/STROBE, EXTERIOR WEATHERPROOF
[S]	CEILING MOUNTED FIRE ALARM SPEAKER/STROBE
[S]	CEILING MOUNTED FIRE ALARM SPEAKER
[S]	CEILING MOUNTED FIRE ALARM STROBE
[S]	CEILING MOUNTED FIRE ALARM STROBE, (1) IS CANDELA RATING
[S]	INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR
[S]	INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR FOR ELEVATOR RECALL
[S]	INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR
[S]	INTELLIGENT PHOTOELECTRIC DUCT SMOKE DETECTOR
[S]	ASSOCIATED VENTILATION EQUIPMENT FOR SHUT DOWN.
[MM]	MONITOR MODULE
[CM]	CONTROL MODULE
[MH]	MAGNETIC DOOR HOLDER
[TS]	SPRINKLER TAMPER SWITCH
[FS]	SPRINKLER FLOW SWITCH
[R]	FAN SHUTDOWN RELAY
[RTSA]	REMOTE TEST SWITCH/WINDICATOR

TELECOMMUNICATIONS SYSTEMS

SYMBOL	DESCRIPTION
[D]	DATA
[D]	DATA ABOVE COUNTER
[D]	BACK BOX ONLY FOR AUDIO VISUAL EQUIPMENT
[D]	TELECOMMUNICATIONS ABOVE COUNTER
[D]	TELECOMMUNICATIONS FLOOR MOUNTED
[D]	TELECOMMUNICATIONS CEILING MOUNTED
[D]	WIRELESS ACCESS POINT (CEILING MOUNTED DATA) - (2) DATA CABLES
[D]	CARD READER
[D]	KEY PAD
[D]	CAMERA ROUGH IN - (1) DATA CABLE
[D]	ROOM SCHEDULER - (1) DATA CABLE, COIL 10 FT ABOVE LOCATION
[D]	ELECTRIC STRIKE
[D]	BELL

X = NUMBER OF DATA CONNECTORS
NOTE: THIS IS A COMPOSITE LIST, NOT ALL SPECIFIC TO THIS PROJECT.

POWER SYSTEMS

SYMBOL	DESCRIPTION
[SWBD]	LARGE ELECTRICAL EQUIPMENT WITH DESIGNATION - DRAWN TO SCALE
[DP]	DISTRIBUTION PANEL WITH DESIGNATION
[BP]	BRANCH PANEL WITH DESIGNATION
[M]	MOTOR WITH DESIGNATION
[DISC]	DISCONNECT SWITCH
[J]	JUNCTION BOX
[PB]	PULL BOX
[P]	POKE-THRU MODULAR FURNITURE FEED, POWER
[X]	EQUIPMENT CONNECTION
[X]	EQUIPMENT CONNECTION - EMERGENCY
[C]	CONNECTION TYPES: REFER TO EQUIPMENT CONNECTION SCHEDULE(S)
[PP]	AUTOMATIC DOOR OPERATOR ACTIVATION PUSH PLATE
[EPO]	EMERGENCY POWER OFF STATION
[I]	DENOTES WALL MOUNTING
[F]	SYSTEM FURNITURE BASE FEED LOCATION (1) 2 GANG JUNCTION BOXES: (1) POWER, (1) LOW VOLTAGE
[M]	MOUNTING CONFIGURATION: W = WALL PP = POWER POLES SYSTEMS FURNITURE # = QTY PHASE CONDUCTORS #N = QTY NEUTRAL CONDUCTORS G = EQUIPMENT GROUND CIRCUIT NUMBER(S)
[PP]	POWER POLE

RECEPTACLES

SYMBOL	DESCRIPTION
[H]	SIMPLEX RECEPTACLE
[H]	SIMPLEX RECEPTACLE ABOVE COUNTER
[H-X]	DUPLEX RECEPTACLE
[H-X]	DUPLEX RECEPTACLE TYPES: EWC - ELECTRIC WATER COOLER, PROVIDE GFCI BREAKER IN ELEC PANEL G - GROUND FAULT CIRCUIT INTERRUPTER TV - TELEVISION OUTLET T - TAMPER RESISTANT W - WEATHER RESISTANT PRU - CEILING MOUNTED VIDEO PROJECTOR USB - USB CHARGING DEVICE, REFER TO SPEC FOR CONFIGURATION
[H-X]	DUPLEX RECEPTACLE ABOVE COUNTER
[H-X]	DOUBLE DUPLEX RECEPTACLE
[FD]	SYSTEM FLOORING - FLOOR MOUNTED DUPLEX RECEPTACLE BY FLOORING CONTRACTOR
[FD]	SYSTEM FLOORING ZONE BOX - UNDER FLOOR SYSTEM MOUNTED BY FLOORING CONTRACTOR
[FD]	CEILING MOUNTED DUPLEX RECEPTACLE
[PP]	POWER POLE
[PP]	RECEPTACLES IN SURFACE RACEWAY ASSEMBLY RACEWAY DESIGNATION, SEE SURFACE RACEWAY SCHEDULE

LIGHTING FIXTURES

SYMBOL	DESCRIPTION
[F1]	FIXTURE TYPE
[Z]	CIRCUIT
[a]	CONTROL DEVICE
[S]	SURFACE/ RECESSED LINEAR MOUNT, NORMAL POWER
[S]	SURFACE/ RECESSED LINEAR MOUNT, EMERGENCY POWER
[S]	LINEAR WALL WASH, NORMAL POWER
[S]	LINEAR WALL WASH, EMERGENCY POWER
[S]	LINEAR PENDANT, NORMAL POWER
[S]	LINEAR PENDANT MOUNTED, NORMAL POWER
[S]	SURFACE/SUSPENDED MOUNT, NORMAL POWER
[S]	SURFACE/SUSPENDED MOUNT, EMERGENCY POWER
[S]	SURFACE / RECESSED DOWNLIGHT, NORMAL POWER
[S]	SURFACE / RECESSED DOWNLIGHT, EMERGENCY POWER
[S]	SURFACE / RECESSED WALL WASH, NORMAL POWER
[S]	SURFACE / RECESSED WALL WASH, EMERGENCY POWER
[S]	WALL MOUNTED SCIENCE OR WALLPACK, NORMAL POWER
[S]	WALL MOUNTED SCIENCE OR WALLPACK, EMERGENCY POWER
[S]	EXIT SIGN, CEILING MOUNTED - FACES AND ARROWS AS SHOWN
[S]	EXIT SIGN, WALL MOUNTED - FACES AND ARROWS AS SHOWN
[S]	BATTERY PACK EMERGENCY LIGHTING
[I]	DENOTES WALL MOUNTING OF LIGHT

SWITCHES

SYMBOL	DESCRIPTION
[H-X]	SINGLE POLE (LOWER CASE LETTER INDICATES SWITCH LEG)
[H-X]	SWITCH TYPES: 2 - DOUBLE POLE 3 - THREE WAY 4 - FOUR WAY D - DIMMER OS - OCCUPANCY SENSOR MWS - MOTORIZED WINDOW SHADE STATION
[H-X]	LOW VOLTAGE LIGHTING CONTROL SYSTEM SWITCH (LOWER CASE LETTER INDICATES SWITCH LEG)
[H-X]	SWITCH TYPES: 2B - 2 BUTTON (RIVE) 3BR - 3 BUTTON WITH RAISE LOWER (RIVE)
[S]	SCENE CONTROL
[S]	OCCUPANCY SENSOR
[S]	SWITCHING DESIGNATION
[S]	VACANCY SENSOR
[S]	SWITCHING DESIGNATION
[S]	EMERGENCY LIGHTING CONTROL RELAY, UL924 LISTED WITH 0-10V SHUNT

NOTE: ALL CEILING OCCUPANCY/VACANCY SENSORS SERVING VAV SERVED AREAS TO HAVE AN AUXILIARY CONTACT FOR DDC OCCUPANCY SETBACK SIGNAL INTEGRATION.

LINE WEIGHT KEY

- ALL ITEMS INDICATED BY A DARK SOLID LINE ARE NEW
- ALL ITEMS INDICATED BY A LIGHT SOLID LINE ARE EXISTING TO REMAIN
- ALL ITEMS INDICATED BY A DARK DASHED LINE ARE EXISTING TO BE REMOVED OR RELOCATED.

ID	DESCRIPTION	DIFFUSER	WATTS	TYPE	TEMP	CRI	LUMENS	TYPE	DIM TYPE	DIM RANGE	VOLTAGE	MOUNTING		HEIGHT	NAME	MODEL NUMBER	MANUFACTURER	SEE NOTE	COMMENTS
												LOCATION	CONFIGURATION						
C1	LED COVE LIGHT	--	7.8FT	LED	4000K	90	750FT	ELD	0-10V	1-100%	24VDC	CEILING	SURFACE	GYP	UNDER SOFFIT	PRINCIPLE ARCHITECTURAL LIGHTING	C-940MO-XX-CV-U-FSD-1-FSG		SEE DRAWING FOR FIXTURE LENGTH
C1-M	LED COVE LIGHT MARKER BOARD	--	7.8FT	LED	4000K	90	750FT	ELD	0-10V	1-100%	24VDC	CEILING	SURFACE	GYP	UNDER SOFFIT	PERFEKT	WM-SL-375-90-40-MAL-1-W-UNV-DP-S(L)		SEE DRAWING FOR FIXTURE LENGTH RUNS LENGTHS OF MARKER BOARD 22 FT
C2	UNDER CABINET LIGHT	--	18	LED	4000K	84	310FT	ELD	0-10V	1-100%	120V	CEILING	SURFACE	CABINET	UNDER CABINET FLUSH WITH CEILING	SOLID STATE LUMINAIRES	UNLE-3-4K-WH POWER SUPPLY-UN100-DIM		
D1	4" APERTURE RECESSED ROUND LED WALL WASH ADJUSTABLE DOWNLIGHT	--	11.4	LED	4000K	90	1000	ELD	0-10V	10-100%	120V	CEILING	RECESSED	ACT	WITH CEILING FLUSH WITH CEILING	GOTHAM	EV04-WM-WDMIM-40/10-AR-LSS-MVOLT-G210-90CRI		
D2	4" APERTURE RECESSED ROUND LED DOWNLIGHT	--	9	LED	4000K	90	1000	ELD	0-10V	10-100%	120V	CEILING	RECESSED	ACT	WITH CEILING FLUSH WITH CEILING	GOTHAM	EV04-WDMIM-40/10-AR-LSS-MVOLT-G210-90CRI		
L1	SUSPENDED LINEAR LED DIRECT/INDIRECT CONTINUOUS RUN LENGTH	ACRYLIC LENS	5.66FT	LED	4000K	90	700FT	ELD	0-10V	1-100%	120V	CEILING	SUSPENDED	VARIES	SEE DWG	LUMENWERX	WA1-5P-D-HLO-0-5D-HLO-SW-90-350-40-CONTINUOUS RUN*UNV-D1-2C-EC-ST5-W		
L2	RECESSED LINEAR LED DIRECT CONTINUOUS RUN LENGTH	ACRYLIC LENS	5.66FT	LED	4000K	90	700FT	ELD	0-10V	1-100%	120V	CEILING	RECESSED	VARIES	SEE DWG	LUMENWERX	WA1-5P-D-HLO-0-5D-SW-90-350-40-CONTINUOUS RUN*UNV-D1-1C-EC-MFM-W		*REFER TO FLOOR PLAN FOR CONTINUOUS RUN LENGTHS WITH EMERGENCY SECTIONS.
P2	6" CYLINDER PENDANT			LED	4000K	90		ELD	0-10V	1-100%	120V	CEILING	PENDANT		SEE DWG	GOTHAM	EV06-40/10-AR-LSS-MVOLT-RGH-PCAN45XW-S8-0VHG		
P3	MUTTO FLUID PENDANT LAMP	--	5	LED	3000K	90	260	ELD	0-10V	1-100%	120V	CEILING	PENDANT		SEE DWG	MUTTO	100301994		*THE LARGER OF THE FIXTURE TYPES TO BE
P4	LOUIS POULSEN PENDANT		22	LED	3000K	90		ELD	0-10V	1-100%	120V	CEILING	PENDANT		SEE DWG	LOUIS POULSEN	PH5-WHT-WHT		
P5	DOUBLE BOULE PENDANT		4.3	LED	3000K	80		ELD	0-10V	1-100%	120V	CEILING	PENDANT		SEE DWG	MODERN FORMS	PD-82006-BK		
S1	48" LINEAR LED STRIP LIGHT	ACRYLIC LENS	31	LED	4000K	90		ELD	0-10V	10-100%	120V	CEILING	SURFACE	CEILING		METALUX	45NLED-LD5-46SL-UNVEL7W-L940-CD1-U		
T1	SUSPENDED TRACK LIGHTING			LED	4000K	90		ELD	0-10V	10-100%	120V	CEILING	SUSPENDED		84" AFF	WAC	H-2020-940-WT-LENS-16-SPR		
W2	WALL SCENCE			LED	4000K	90	2585	ELD	0-10V	10-100%	120V	WALL	SURFACE	GWB	60" AFF	WAC	WS-35849		
W3	WALL SCENCE			LED	3000	90	2585	ELD	0-10V	10-100%	120V	WALL	SURFACE	GWB	VARIES	LUMENWERX	HEX2W5YA-HLO-LED-90-1000-40-5FT-UNV-1-W		
X1	THERMOPLASTIC UNIVERSAL MOUNT LED EXIT SIGN RED LETTERS		2.3	LED	--	--	--	ELD	--	--	120V	CEILING	SURFACE	ACT	TBD	CHLORIDE ISOLITE SURELITES	VE SERIES RL-AC-R-U-WH-MTEB APX SERIES	1,2	

GENERAL NOTES:

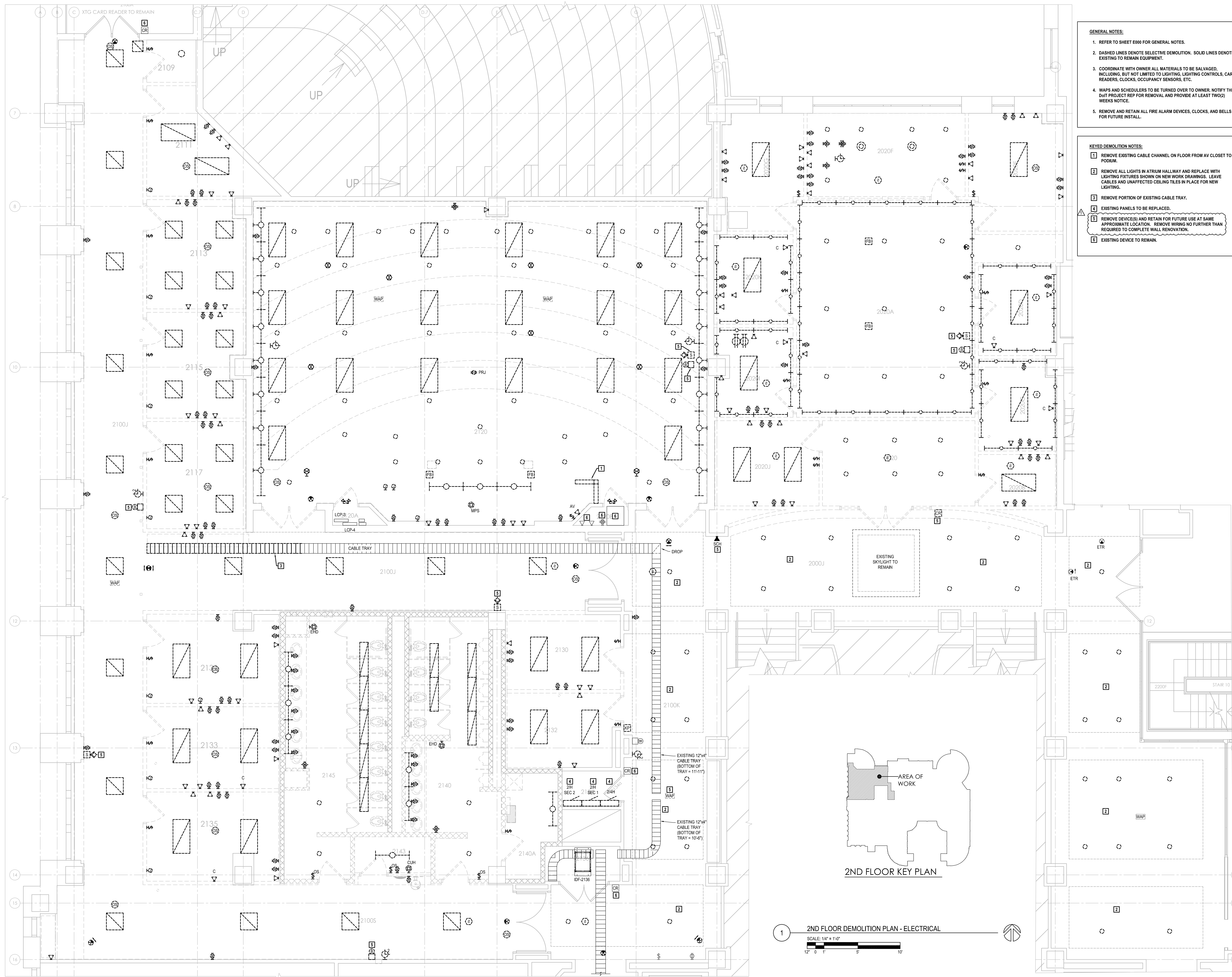
- A - REFER TO INTERIOR LIGHTING SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING FIXTURE, BALLAST OR DRIVER REQUIREMENTS AND INSTALLATION REQUIREMENTS.
- B - NOTED LUMEN QUANTITY IS DELIVERED LUMEN OUTPUT
- C - NOTED DIMMING RANGE INDICATES MINIMUM PARAMETERS. LUMINAIRES WITH GREATER DIMMING RANGE ARE PERMITTED.
- D - FIXTURES NOTED IN THIS SCHEDULE ARE TO ESTABLISH A BASIS OF DESIGN. PRODUCTS OTHER THAN THOSE LISTED IN THE SCHEDULE ARE PERMITTED SUBJECT TO MEETING THE REQUIREMENTS OF THE SCHEDULED FIXTURE'S QUALITY, PERFORMANCE, ENERGY, AESTHETICS, DIMENSIONS, ETC..
- E - PROVIDE EMERGENCY LIGHTING FIXTURES IN AREAS SHOWN ON DRAWINGS.

ABBREVIATIONS:

ELD - ELECTRONIC LED DRIVER OR POWER SUPPLY
EPSS - ELECTRONIC PROGRAM START FLUORESCENT BALLAST
EPSS-D - ELECTRONIC PROGRAM START STEP DIMMING BALLAST: 0/50/100
DM - DIMMING

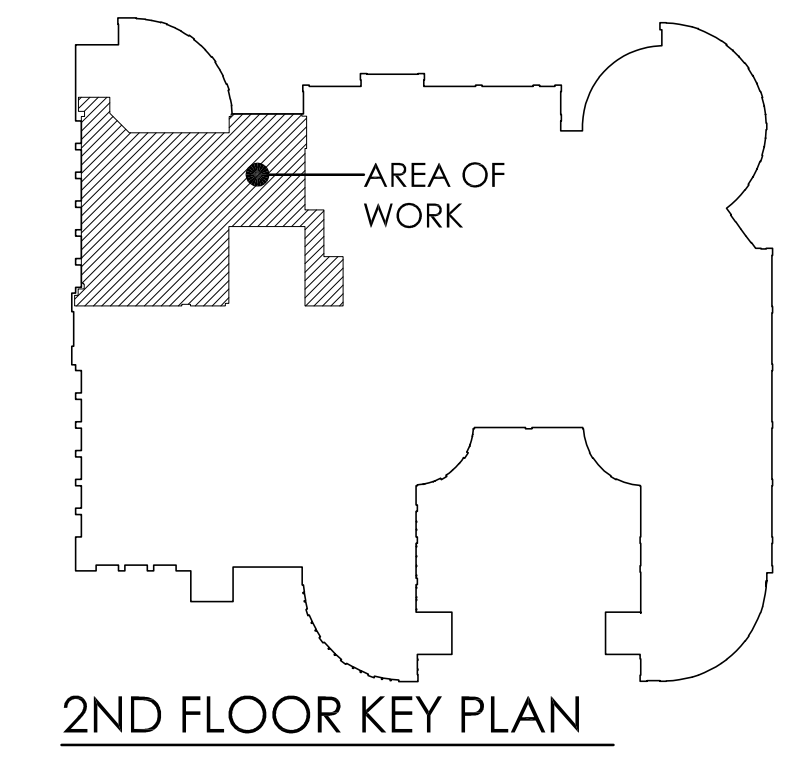
GWB - GYPSUM WALL BOARD, DRYWALL
ACT - ACOUSTICAL CEILING TILE IN SUSPENDED GRID SYSTEM, ACCESSIBLE
LMNS - LUMENS
BF - BALLAST FACTOR

TBD - TO BE DETERMINED
120V -



- GENERAL NOTES:**
- REFER TO SHEET E000 FOR GENERAL NOTES.
 - DASHED LINES DENOTE SELECTIVE DEMOLITION. SOLID LINES DENOTE EXISTING TO REMAIN EQUIPMENT.
 - COORDINATE WITH OWNER ALL MATERIALS TO BE SALVAGED, INCLUDING, BUT NOT LIMITED TO LIGHTING, LIGHTING CONTROLS, CARD READERS, CLOCKS, OCCUPANCY SENSORS, ETC.
 - WAPS AND SCHEDULERS TO BE TURNED OVER TO OWNER, NOTIFY THE D&I PROJECT REP FOR REMOVAL AND PROVIDE AT LEAST TWO(2) WEEKS NOTICE.
 - REMOVE AND RETAIN ALL FIRE ALARM DEVICES, CLOCKS, AND BELLS FOR FUTURE INSTALL.

- KEYED DEMOLITION NOTES:**
- REMOVE EXISTING CABLE CHANNEL ON FLOOR FROM AV CLOSET TO POOLUM.
 - REMOVE ALL LIGHTS IN ATRIUM HALLWAY AND REPLACE WITH LIGHTING FIXTURES SHOWN ON NEW WORK DRAWINGS. LEAVE CABLES AND UNAFFECTED CEILING TILES IN PLACE FOR NEW LIGHTING.
 - REMOVE PORTION OF EXISTING CABLE TRAY.
 - EXISTING PANELS TO BE REPLACED.
 - REMOVE DEVICE(S) AND RETAIN FOR FUTURE USE AT SAME APPROXIMATE LOCATION. REMOVE WIRING NO FURTHER THAN REQUIRED TO COMPLETE WALL RENOVATION.
 - EXISTING DEVICE TO REMAIN.



2ND FLOOR KEY PLAN

1 2ND FLOOR DEMOLITION PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"
12' 0" 1' 0" 5' 0" 10' 0"

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GRAINGER HALL 2ND & 5TH FLOOR RENOVATION
PHASE 3 - 2ND FLOOR NW RENOVATION
UNIVERSITY OF WISCONSIN - MADISON
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MADISON, WI 53706

Revisions:

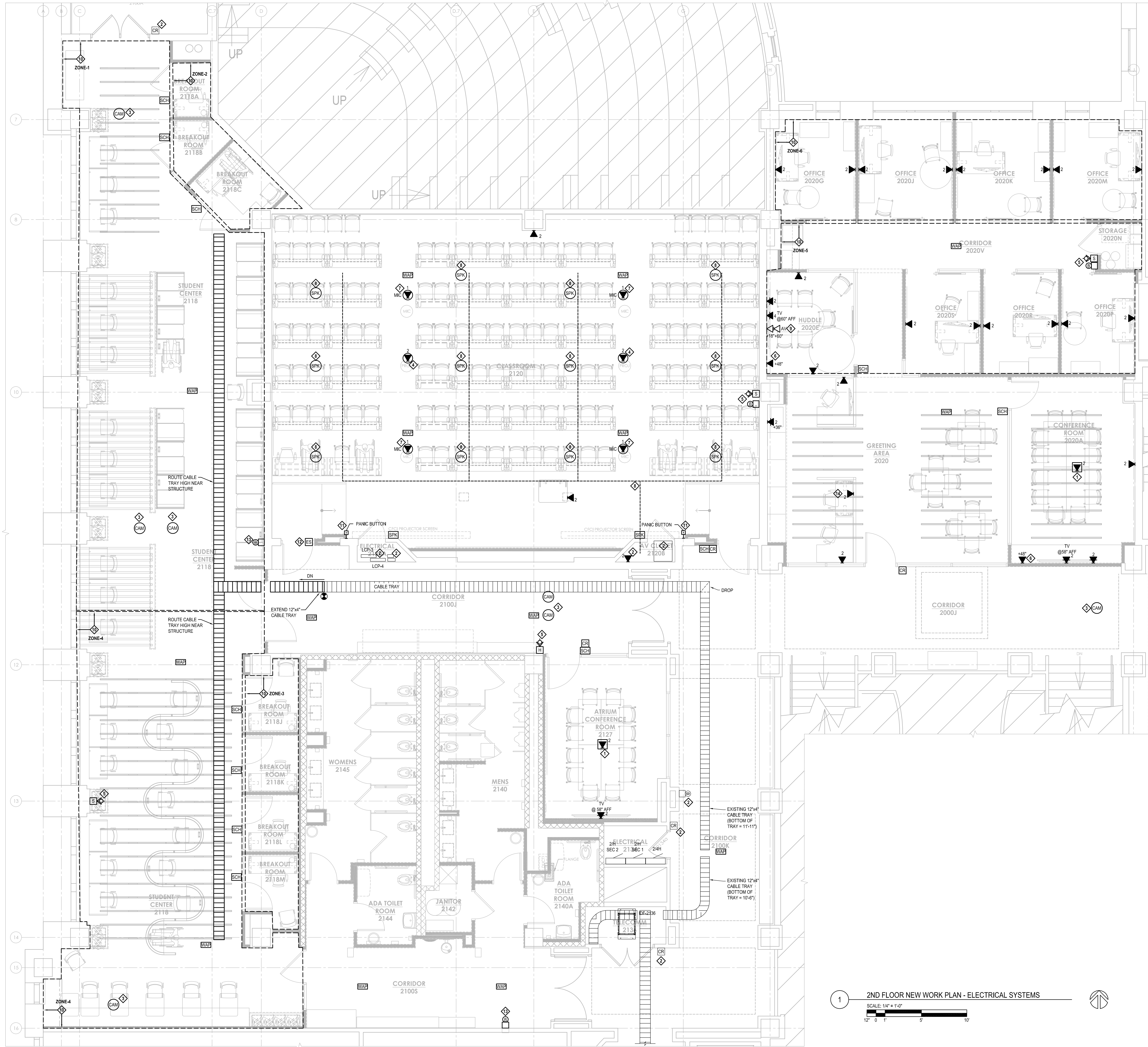
No.	Date	Description
1	03/12/24	ADDENDUM 2

Graphic Scale: 0" 1" 2" 4" 6"

PRJ. Number: UW: MSN 0140-2303
UWSA: A-22-021

Set Type: BD
Date Issued: 02/20/2024

Sheet Number: ED101



- GENERAL NOTES:**
1. NEW CARD READERS TO BE CONNECTED TO NEW HEAD END EQUIPMENT. PRIOR TO INSTALLING 4X4 BACK BOXES FOR CARD READERS, CONTACT UW POLICE DEPARTMENT SECURITY SYSTEMS SPECIALIST FOR INSTRUCTIONS ON HEAD-END CONTROL PANEL LOCATIONS. NEW PANEL MAY BE REQUIRED UP TO 500 FT OUTSIDE PROJECT BOUNDARY. SEE KEYPLAN THIS SHEET FOR APPROXIMATE HEAD-END LOCATION.
 2. REUSE FIRE ALARM AUDIO CIRCUITS TO THE EXTENT POSSIBLE. PROVIDE NEW AUDIO CIRCUITS AND CABLING FROM EXISTING FACP. ASSUME NEW AMPLIFIERS ARE REQUIRED. PROVIDE SHOP DRAWINGS INDICATING CODE-COMPLIANT PLACEMENT OF NEW SPEAKERS, STROBES, PULL STATIONS AND OTHER REQUIRED DEVICES.
 3. NEW FIRE ALARM CABLES TO 2ND FLOOR SHALL BE 2 HOUR RATED.
 4. WAPs WILL REQUIRE 2 DATA CONNECTION. COORDINATE LOCATIONS WITH DOT PROJECT REPRESENTATIVE.
 5. PROVIDE ALL CONNECTORS, HARDWARE, TRANSFORMERS, POWER SUPPLIES, RACK PANELS, INTERFACES, FASTENERS, WIRE HARNESSING MATERIALS, BUSHINGS AND ANY OTHER INCIDENTALS REQUIRED FOR COMPLETE AND PROPER FUNCTIONING OF THIS SYSTEM WHETHER SPECIFICALLY LISTED OR NOT.
 6. PRIOR TO ROUGH-IN AT CAMERA LOCATIONS, THE CONTRACTOR SHALL DEMONSTRATE ALL CAMERA LOCATIONS FOR THE PURPOSES OF MAKING FINAL CAMERA POSITION AND LENS ADJUSTMENTS. CONTRACTOR SHALL PROVIDE 14-DAY NOTICE (MINIMUM) TO ALLOW FOR PARTICIPATION BY DFD, AGENCY STAFF AND ENGINEER. CONTACT KEVIN SOPHA, KEVIN.SOPHA@WISC.EDU, (608)284-0240
 7. THE CONTRACTOR MUST COORDINATE WAP ROUGH-IN LOCATIONS WITH THE DOT PROJECT REPRESENTATIVE.
 8. SCHEDULERS WILL REQUIRE ONE (1) DATA CONNECTION. THE CABLE SHALL BE IDENTIFIED WITH THE ROOM IT SERVES AND NOT WITH THE CORRIDOR NUMBER.
 9. FOR SOUND MASKING (WHITE NOISE) SYSTEM, PROVIDE SUBMITTALS INDICATING MANUFACTURERS RECOMMENDED SPEAKER LAYOUT. CONTRACTOR SHALL PROVIDE 14-DAY NOTICE (MINIMUM) TO ALLOW FOR PARTICIPATION BY DFD, AGENCY STAFF AND ENGINEER. CONTACT KEVIN SOPHA, KEVIN.SOPHA@WISC.EDU, (608)284-0240

- KEYED NEW WORK NOTES:**
- ◇ DATA TERMINATIONS TO BE IN FLOOR BOXES.
 - ◇ EXISTING TO REMAIN.
 - ◇ CONTRACTOR TO PROVIDE DATA CABLES. OWNER TO FURNISH CAMERAS. CAMERAS TO BE INSTALLED BY CONTRACTOR.
 - ◇ DATA CONNECTION FOR CEILING MOUNTED PROJECTOR. HOME RUN CABLE TO TELECOM ROOM BY ELECTRICAL CONTRACTOR.
 - ◇ OBTAIN EXISTING DEVICES FROM DEMOLITION. INSTALL IN SAME LOCATION ONCE WALLS ARE COMPLETE. PROVIDE NEW WIRE WHERE WIRING WILL NOT REACH NEW LOCATION.
 - ◇ SINGLE-GANG BOX AT 48" AFF WITH CONDUIT STUB UP FOR AV CONTROLLER.
 - ◇ PROVIDE ONE DATA CABLE FROM CEILING MIC LOCATION TO AV CLOSET 2120B. PROVIDE J-HOOK ROUTE FOR CABLE AS REQUIRED. AT BOTH ENDS PROVIDE 10 FT CABLE COIL WITH NO TERMINATIONS. LABEL CABLE AT BOTH ENDS AS MIC1, MIC2, MIC3 AND MIC4 RESPECTIVELY.
 - ◇ CEILING SPEAKERS. TYPICAL FOR 12 INDICATED. PROVIDE J-HOOK ROUTE AS SHOWN BY DOTTED LINE FROM SPEAKERS TO AV CLOSET. SPEAKERS AND CABLE PROVIDED BY AV CONTRACTOR.
 - ◇ PROVIDE MUDRINGS WITH AV BRUSH PLATES, ONE AT 18" AFF AND THE OTHER BEHIND MONITOR.
 - ◇ PROVIDE SOUND MASKING (WHITE NOISE) SYSTEM IN ZONED AREAS AS INDICATED. PROVIDE HEAD-END EQUIPMENT IN TELECOM ROOM 2136.
 - ◇ PUSHING EITHER PANIC BUTTON SHALL INTEGRATE WITH DOOR LOCKING SYSTEM TO LOCK BOTH CLASSROOM DOORS FROM OUTSIDE TO PREVENT INGRESS INTO CLASSROOM.
 - ◇ THIS DOOR TO HAVE ELECTRIC STRIKE WHICH SHALL LOCK UPON PANIC BUTTON EVENT. BUT THIS DOOR DOES NOT RECEIVE A CARD READER.
 - ◇ OBTAIN EXISTING DEVICE FROM DEMOLITION AND RELOCATE TO NEW LOCATION. PROVIDE NEW WIRE WHERE WIRING WILL NOT REACH TO NEW LOCATION.
 - ◇ DATA TO BE PROVIDED IN THE SYSTEMS FURNITURE BY ELECTRICAL CONTRACTOR WITH KEYSTONE STYLE JACK AND FACEPLATES.

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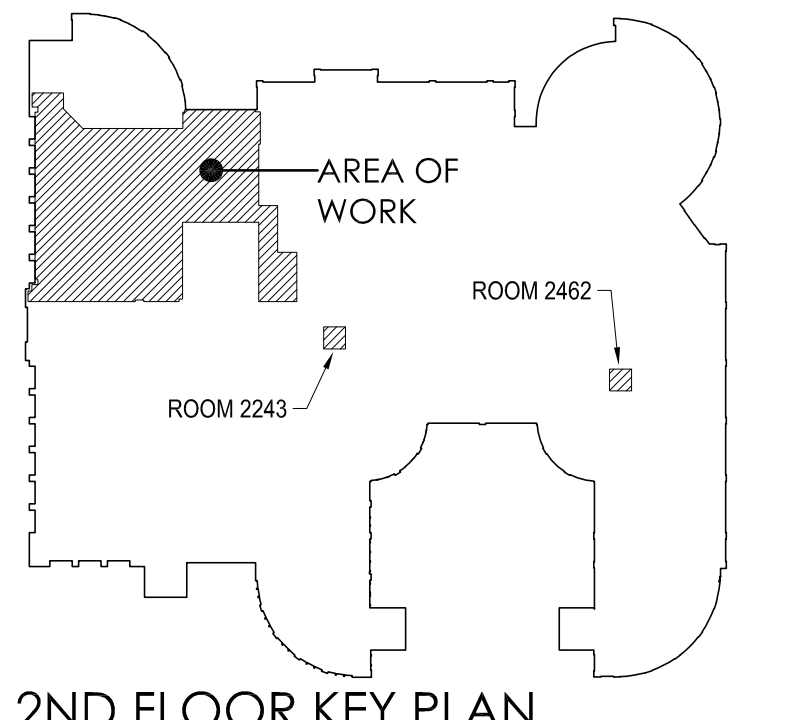


GRAINGER HALL 2ND & 5TH FLOOR RENOVATION
PHASE 3 - 2ND FLOOR NW RENOVATION
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MADISON, WI 53706

Sheet Title: 2ND FLOOR NEW WORK PLAN - ELECTRICAL SYSTEMS

Revisions:

No.	Date	Description
1	03/12/24	ADDENDUM 2



1 2ND FLOOR NEW WORK PLAN - ELECTRICAL SYSTEMS
SCALE: 1/8" = 1'-0"
12' 0' 1' 5' 10'

Graphic Scale: 0" 1" 2" 4" 6"

PRJ. Number	UW: MSN 0140-2303
Set Type	BD
Date Issued	02/20/2024
Sheet Number	ES101



3 EXISTING 2ND FLOOR PANELS 2/4H, 2/4H SEC 1, 2/4H SEC 2 PHOTO
NO SCALE

LINE WEIGHT KEY	
	ALL ITEMS INDICATED BY A DARK SOLID LINE ARE NEW
	ALL ITEMS INDICATED BY A LIGHT SOLID LINE ARE EXISTING TO REMAIN
	ALL ITEMS INDICATED BY A DARK DASHED LINE ARE DEMO

ONE LINE DIAGRAMS	
SYMBOL	DESCRIPTION
	ELECTRICAL EQUIPMENT WITH DESIGNATION
	AUTOMATIC TRANSFER SWITCH
	MANUAL TRANSFER SWITCH
	CIRCUIT BREAKER
	DRAW-OUT POWER CIRCUIT BREAKER
	CONTACTOR
	SWITCH
	FUSE
	FUSED SWITCH
	POTENTIAL TRANSFORMER
	CURRENT TRANSFORMER
	TRANSFORMER
	METER
	INCOMING SERVICE
	BUS BAR
	FEEDER DESIGNATION
	DELTA
	WYE
	GROUND
	SURGE PROTECTIVE DEVICE

GENERAL NOTES:

- POWER NOT TO BE DISRUPTED DURING NORMAL HOURS OF OPERATION; 7:00AM-7:00PM. ALL POWER OUTAGES SHALL BE SCHEDULED AFTER NORMAL BUSINESS HOURS AND COORDINATED WITH BUILDING MANAGER AND UW ELECTRIC SHOP PRIOR TO OUTAGE.

KEYED DEMOLITION NOTES:

- REMOVE AND REPLACE PANEL BUS AND BREAKERS TO REDUCE ARC FLASH PROTECTION REQUIREMENTS. COORDINATE WITH OWNER FOR OUTAGE SCHEDULE.

KEYED NEW WORK NOTES:

- INSTALL PANEL BUS AND BREAKERS TO REDUCE ARC FLASH PROTECTION REQUIREMENTS. PROVIDE 22KA AIC RATING FOR PANEL. COORDINATE WITH OWNER FOR OUTAGE SCHEDULE.
- INSTALL PANEL BUS AND BREAKERS TO REDUCE ARC FLASH PROTECTION REQUIREMENTS. PROVIDE 14KA AIC RATING FOR PANEL. COORDINATE WITH OWNER FOR OUTAGE SCHEDULE.

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Sheet Title:
ELECTRICAL ONE-LINE

Revisions:

No.	Date	Description
1	03/12/24	ADDENDUM 2

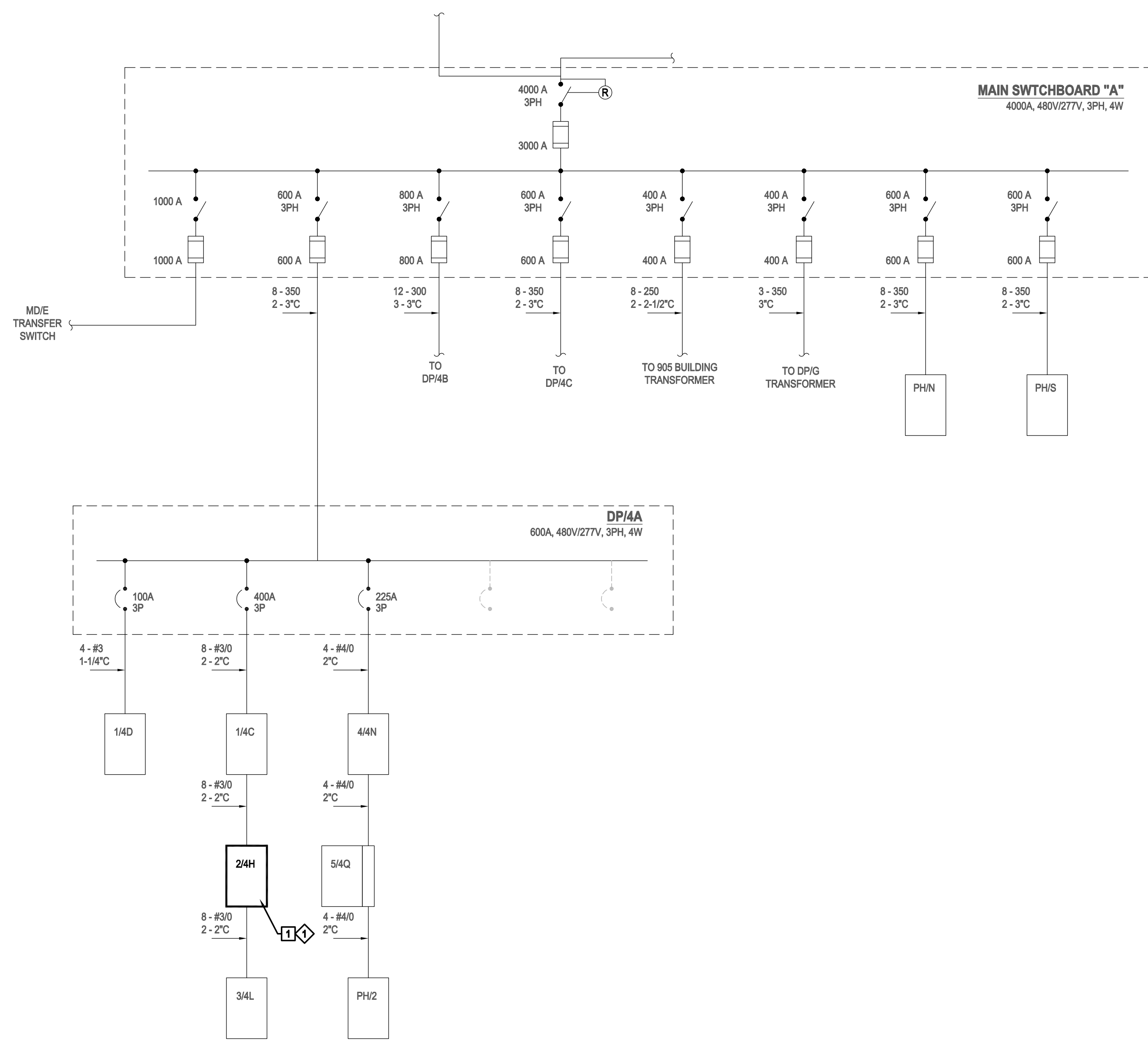
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PRJ. Number: UW: MSN 0140-2303
UWSA: A-22-021

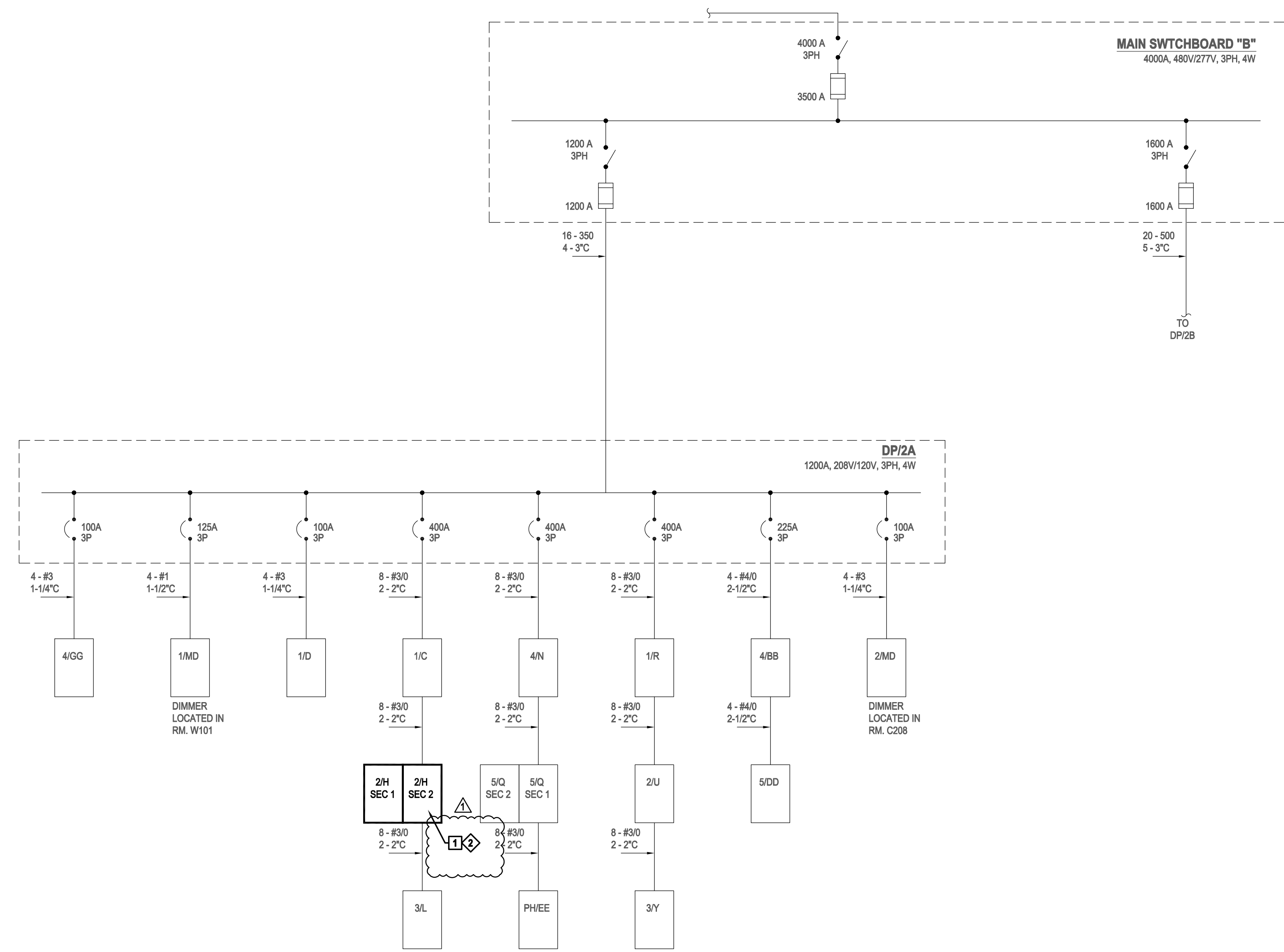
Set Type: BD

Date Issued: 02/20/2024

Sheet Number: E401



2 PARTIAL ONE LINE DIAGRAM
NO SCALE



1 PARTIAL ONE LINE DIAGRAM
NO SCALE

Table with columns: PANELBOARD NAME, VOLTAGE, PHASE, WIRE, BUS SIZE, MAIN, A/C RATING. Includes sub-tables for LOAD, PANEL OPTIONS, and PANEL NOTES.

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Table with columns: No., Date, Description. Includes Revisions section with entry 03/12/24 ADDENDUM 2.

Table with columns: PRJ. Number, Set Type, Date Issued, Sheet Number. Includes project details like UWSA: A-22-021 and Sheet Number E500.