


LIGHT FIXTURE SCHEDULE			C406.3 EFFICIENT LIGHTING SYSTEM CALCULATIONS				
Type Mark	Type	Specification	Lamp	Mounting Type	Voltage	Apparent Load	Total Wattage
A	2x4 RECESSED CEILING FIXTURE	H.E. WILLIAMS: AT1-24-L40/835-DIM-277	LED	RECESSED	277	36 VA	34.2
B	2x2 RECESSED CEILING FIXTURE	H.E. WILLIAMS: AT1-22-L40/835-DIM-277	LED	RECESSED	277	31 VA	29.5
C	6" RECESSED DOWNLIGHT - 2000 Lmn	LITHONIA LIGHTING: LDN6 35/20 L06AR LS	LED	RECESSED	277	24 VA	22.5
D	36" WALL FIXTURE OVER SINK	VISUAL COMFORT & CO: 700BCELO-36-S-LED930-277	LED	SURFACE-WALL	277	32 VA	30
E	6" RECESSED DOWNLIGHT - 1000 Lmn	LITHONIA LIGHTING: LDN6 35/10 L06AR LS	LED	RECESSED	277	11 VA	10.44
F	24" SURFACE WALL STRIP FIXTURE	LITHONIA LIGHTING: CLX-L24-SEF-FDL-MVOLT	LED	SURFACE-WALL	277	19 VA	18.4
G	24" SURFACE UNDER CABINET FIXTURE	H.E. WILLIAMS: 1SF-2-L12-835-DIM-WRS/120-120V	LED	SURFACE U.C.	120	12 VA	11.4
H	12" SURFACE UNDER CABINET FIXTURE	H.E. WILLIAMS: 1SF-1-L6-835-DIM-WRS/120-120V	LED	SURFACE U.C.	120	6 VA	5.9
X1	EXIT SIGN - CEILING MOUNT	LITHONIA LIGHTING: EXRG-M6	LED	SURFACE-CEILING	277	1 VA	1

ELECTRICAL DRAWING INDEX	
Sheet Number	Sheet Name
E-001	SYMBOLS, ABBREVIATIONS AND NOTES
E-101	6TH FLOOR - NEW WORK - LIGHTING
E-102	6TH FLOOR - NEW WORK - POWER
E-201	SECTIONS & DETAILS
E-401	LIGHTING CALCULATIONS
E-402	EMERGENCY LIGHTING CALCULATIONS
E-403	LIGHTING CONTROL SCHEMATICS & SEQUENCE OF OPERATIONS
E-501	PARTIAL POWER ONE-LINE DIAGRAM
E-502	PANEL SCHEDULES
E-503	PANEL SCHEDULES
ED-100	OVERALL 6TH FLOOR PLAN
ED-101	6TH FLOOR - DEMOLITION - LIGHTING
ED-102	6TH FLOOR - DEMOLITION - POWER

LIGHTING GENERAL NOTES				GENERAL SYMBOLS		
<div>1. ARCHITECT TO CONFIRM / APPROVE FINISH.</div> <div>2. REFER TO ARCHITECT'S DETAILS AND PLANS FOR MOUNTING INFORMATION.</div> <div>3. REFER TO MANUFACTURER'S TECHNICAL INSTRUCTIONS FOR MOUNTING INFORMATION AND POWER SUPPLY INFORMATION.</div> <div>4. ELECTRICAL CONTRACTOR TO PROVIDE ALL NECESSARY MOUNTING ACCESSORIES.</div> <div>5. CONFIRM CEILING MATERIAL AND COMPATIBILITY WITH FIXTURE TO ENSURE CORRECT MOUNTING CONDITION.</div> <div>6. DRIVER AND POWER SUPPLY TO BE CONCEALED - LOCATION TO BE DETERMINED IN ACCESSIBLE CEILING WITHIN MANUFACTURER RECOMMENDED DISTANCES.</div> <div>7. LIGHTING CONTROL SYSTEMS PROVIDED TO BE COMPATIBLE WITH SPECIFIED LUMINAIRE. CONTRACTOR TO COORDINATE VENDOR / SUPPLIER SELECTION WITH ALL DOCUMENTS PRIOR TO SUBMITTAL. REFER TO SHEET E-403 FOR ADDITIONAL DETAILS.</div> <div>8. EXIT SIGN FIXTURE "X1" - EC SHALL COORDINATE FACE PLATES AND DIRECTIONAL CHEVRONS WITH LIGHTING SHEET "E-101" PRIOR TO ORDERING AND INSTALLATION.</div>				SYMBOLS	DESCRIPTION	
					DRAWING NOTES, "*" IS DRAWING NOTE NUMBER OR LETTER	
					DETAIL OR SECTION DETAIL OR SECTION NUMBER OR LETTER DRAWING NUMBER WHERE DETAIL OR SECTION IS SHOWN	
					DETAIL DETAIL NUMBER OR LETTER DRAWING NUMBER WHERE DETAIL IS SHOWN	
					NORTH ARROW	
				POWER SYMBOLS		
				SYMBOLS	DESCRIPTION	
					DUPLEX RECEPTACLE - 2P,3W, 20A, 125A, GROUNDED NEMA 5-20R.	
					DUPLEX RECEPTACLE - PLUG CONTROLLED - 2P,3W, 20A, 125A, GROUNDED NEMA 5-20R.	
					GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE - 2P,3W, 20A, 125A, GROUNDED NEMA 5-20R .	
	JUNCTION BOX - SEE FLOOR PLANS FOR EQUIPMENT SERVED. COORDINATE LOCATION AND MOUNTING HEIGHT.					
	POWER TOGGLE SWITCH					
	MOTOR RATED SWITCH					
	COMMUNICATIONS / DATA BACKBOX (2-GANG BOX, 1-GANG TRIM RING W/ 1-1/4" CONDUIT TO ACCESSIBLE CEILING SPACE). COORDINATE WITH LV PLANS PRIOR TO ROUGH-IN.					
	PLUG LOAD RECEPTACLE CONTROL DEVICE					
ELECTRICAL EQUIPMENT SYMBOLS						
SYMBOLS	DESCRIPTION					
	NON-FUSED DISCONNECT SWITCH					
	PANELBOARD					
	GROUND					
	TRANSFORMER					
	CIRCUIT BREAKER					
LIGHTING FIXTURE SYMBOLS						
SYMBOLS	DESCRIPTION					
	EXIT SIGNS (CONNECTED TO EMERGENCY POWER SOURCE)					
	2x4 RECESSED LIGHTING FIXTURE (CONNECTED TO NORMAL POWER SOURCE)					
	2x4 RECESSED LIGHTING FIXTURE (CONNECTED TO EMERGENCY POWER SOURCE)					
	2x2 RECESSED LIGHTING FIXTURE (CONNECTED TO NORMAL POWER SOURCE)					
	2' SURFACE STRIP LIGHTING FIXTURE (CONNECTED TO NORMAL POWER SOURCE)					
	2' SURFACE VANITY LIGHTING FIXTURE (CONNECTED TO NORMAL POWER SOURCE)					
	6" DOWNLIGHT (CONNECTED TO NORMAL POWER SOURCE)					
LIGHTING DEVICE SYMBOLS						
SYMBOLS	DESCRIPTION					
	DIMMER SWITCH					
	SINGLE POLE SWITCH					
	CEILING MOUNTED OCCUPANCY SENSOR; BASIS OF DESIGN IS LEGRAND / WATTSTOPPER.					
	CEILING MOUNTED VACANCY SENSOR; BASIS OF DESIGN IS LEGRAND / WATTSTOPPER.					
	ROOM CONTROLLER; BASIS OF DESIGN IS LEGRAND / WATTSTOPPER.					
	WALL MOUNTED LIGHTING VACANCY SENSOR SWITCH					
	WALL MOUNTED LIGHTING 3-WAY DIMMER SWITCH					
	SINGLE POLE SWITCH - OVERRIDE					
WIRING TYPES						
SYMBOLS	DESCRIPTION					
	HOMERUN TO PANELBOARD - NUMBER OF ARROWHEADS INDICATES NUMBER OF CIRCUITS. NUMERAL AND LETTERS ADJACENT TO ARROWHEADS INDICATE ASSIGNED PANEL AND CIRCUIT NUMBERS. SUBSCRIPT "S" DENOTES SYSTEMS FURNITURE (GENERAL) RECEPTACLES THAT ARE SWITCHED. TICK MARKS IN CIRCUITRY INDICATE QUANTITY OF 12 HOT, NEUTRAL AND GROUND CONDUCTORS. ALL CONDUCTORS ARE NO. 12 UNLESS NOTED OTHERWISE.					
VOLTAGE DROP GENERAL NOTES						
1.	ALL 120 VOLT CIRCUIT HOMERUNS WHICH ARE OVER 75 LINEAR FEET SHALL BE #10 CONDUCTORS MINIMUM. CONTRACTOR SHALL INCREASE WIRE SIZE AS REQUIRED MAINTAINING A MAXIMUM VOLTAGE DROP OF 3%.					

POWER GENERAL NOTES			
<div>1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL DEVICES.</div> <div>2. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS / INFORMATION.</div> <div>3. FIRESTOP PENETRATIONS IN RATED WALLS AND SLAB UPON COMPLETION.</div> <div>4. ALL RECEPTACLES IN AREAS WITHIN 6' OF SINKS SHALL BE GFCI TYPE DEVICES.</div> <div>5. ELECTRICAL CONTRACTOR SHALL CONFIRM ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT WITH ARCHITECT AND TENANT. CONTRACTOR SHALL PROVIDE ALL CONDUIT, WIRING AND ACCESSORIES REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.</div> <div>6. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT.</div> <div>7. ELECTRICAL CONTRACTOR SHALL REVIEW AND COORDINATE ALL LV / TELCOM / AV REQUIREMENTS WITH THE TA SERIES DRAWING PACKAGE AND LV CONTRACTOR PRIOR TO ROUGH-IN.</div>			
GENERAL NOTES			
<div><div>INSPECTIONS</div><div>A. CONTRACTOR SHALL:<div>1. SCHEDULE, ATTEND ALL INSPECTIONS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.</div><div>2. DELIVER ALL CERTIFICATES TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF WORK.</div></div><div>B. NOTIFY UMB IN ADVANCE OF SCHEDULED INSPECTIONS.</div><div>C. AN ELECTRICAL FOREMAN, SUPERINTENDENT OR OTHER SUPERVISOR FAMILIAR WITH THE PROJECT SHALL BE IN ATTENDANCE FOR ALL SCHEDULED ELECTRICAL INSPECTIONS.</div><div>D. ELECTRICAL INSPECTION SHALL BE BY THE THIRD (3RD) PARTY INSPECTOR APPROVED BY THE MARYLAND STATE FIRE MARSHALL.</div><div>E. SCHEDULE THE PRELIMINARY AND ROUGH-IN INSPECTIONS IN A TIMELY MANNER. ANY WORK COVERED PRIOR TO ANY INSPECTION IN A MANNER WHICH, IN THE INSPECTOR'S OPINION, PRECLUDES A COMPLETE INSPECTION SHALL BE UNCOVERED AT THE INSTALLER'S COST.</div><div>F. NOTIFY UMB TEN (10) DAYS PRIOR TO ALL SCHEDULED OUTAGES.</div></div>			
ABBREVIATIONS			
A	AMPERE	LED	LIGHT EMITTING DIODE
AFF	ABOVE FINISHED FLOOR	LLF	LIGHT LOSS FACTOR
AIC	AMPERES INTERRUPTING CAPACITY	LTG	LIGHTING
AS	ABOVE SLAB	MCB	MAIN CIRCUIT BREAKER
AVG	AVERAGE	MLO	MAIN LUGS ONLY
C	CONDUIT / EMT	MTD	MOUNTED
(E)	EXISTING	MTS	MANUAL TRANSFER SWITCH
EC	EMPTY CONDUIT / EMT	(N)	NEW
EG	EQUIPMENT GROUND	No.	NUMBER
EM	EMERGENCY	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
(EN)	EXISTING SHOWN IN NEW LOCATION	P	POLE
(ER)	EXISTING TO BE RELOCATED	PNL	PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL	(R)	REMOVE / DEMOLISH
FACP	FIRE ALARM CONTROL PANEL	UMB	UNIVERSITY OF MARYLAND BALTIMORE
FAEP	FIRE ALARM EXPANDER PANEL	U.O.N.	UNLESS OTHERWISE NOTED
G,EG,GND	GROUND	V	VOLT
GFCI	GROUND FAULT CURRENT INTERRUPTER	W	WIRE
HP	HORSEPOWER	W/	WITH
		XFMR	TRANSFORMER



UNIVERSITY of MARYLAND
BALTIMORE

ADMINISTRATION & FINANCE
DESIGN AND CONSTRUCTION

OFFICE OF FACILITIES MANAGEMENT
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BALTIMORE, MARYLAND 21201
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Murphy &
Dittenhafer
ARCHITECTS

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND THAT I AM A
DULY LICENSED PROFESSIONAL ENGINEER UNDER
THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 18155
EXPIRATION DATE: 2/14/2027

REGISTRATION / STAMP



PROJECT TITLE :

UMB SON
6TH FLOOR
APT. SIM.
RENOVATION

UMB BUILDING NO. : SON - 0833

UMB Project NO. : 26-312

A/E PROJECT NO. : 25-128

CAD FILE NO. :

DATE :

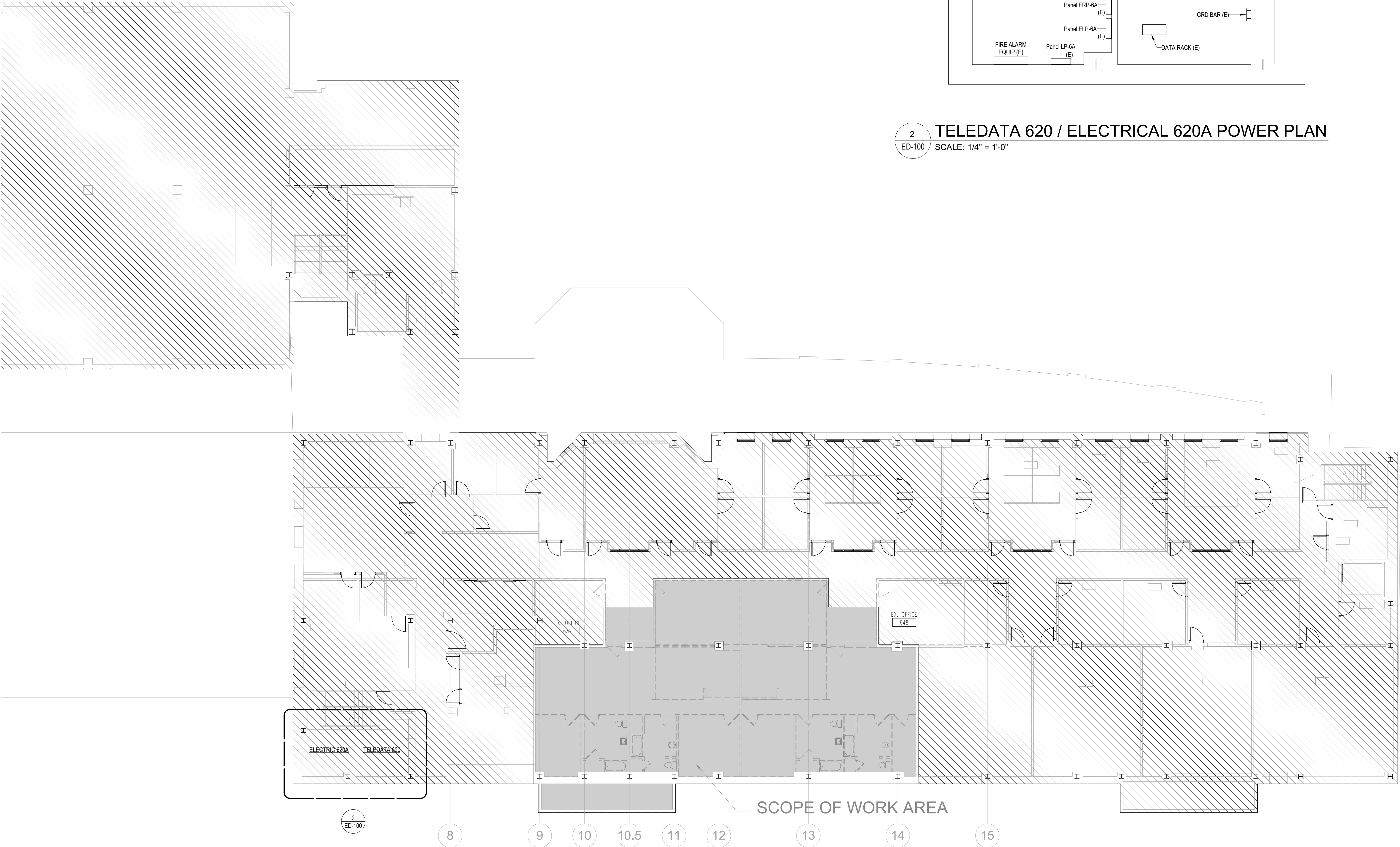
SHEET TITLE :

SYMBOLS,
ABBREVIATIONS AND
NOTES

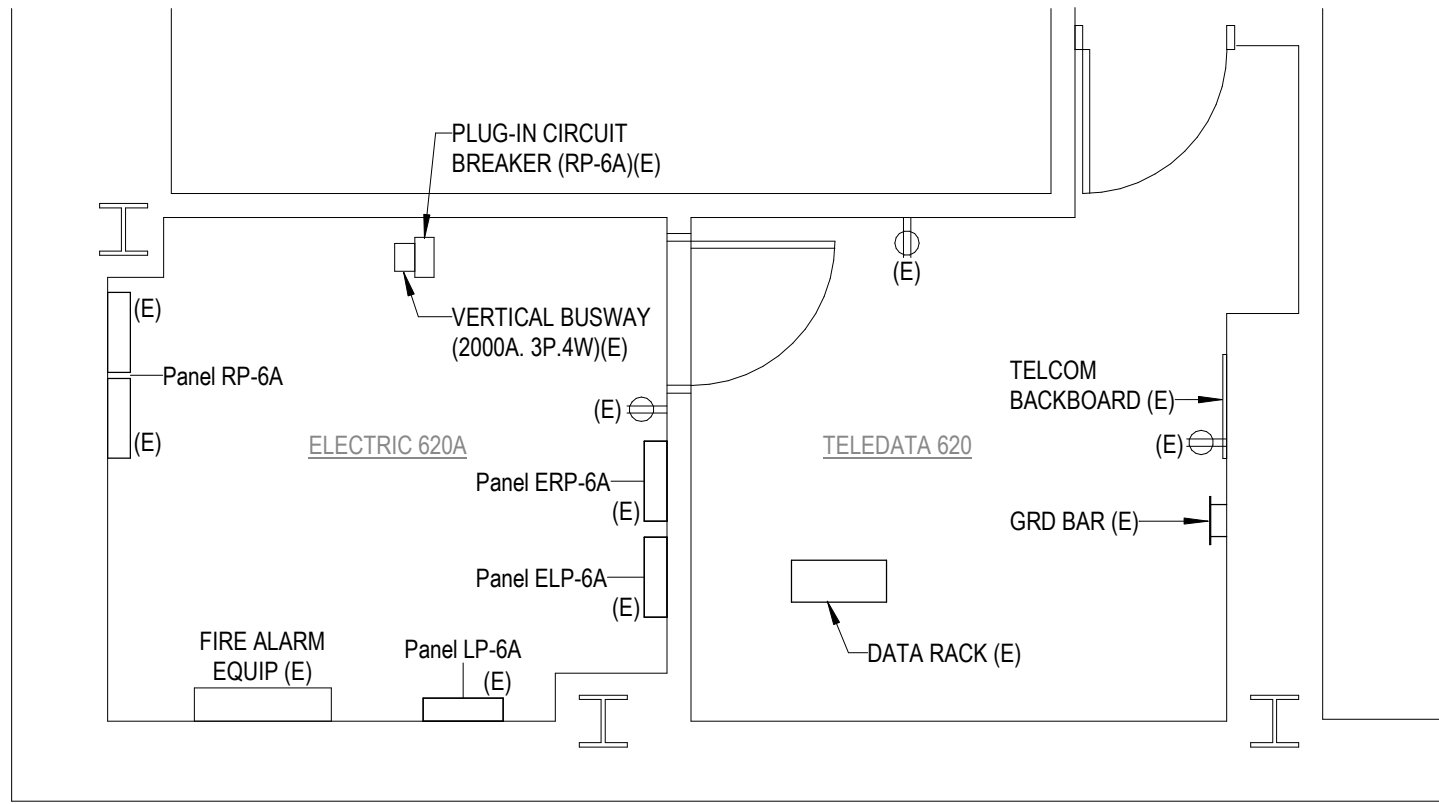
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NO	DATE	ITEM
	2/07/26	100% CD SUBMISSION
	4/08/26	BID SET

SHEET NO.

E-001



1 OVERALL 6TH FLOOR PLAN
ED-100 SCALE: 3/32" = 1'-0"



2 TELEDATA 620 / ELECTRICAL 620A POWER PLAN
ED-100 SCALE: 1/4" = 1'-0"



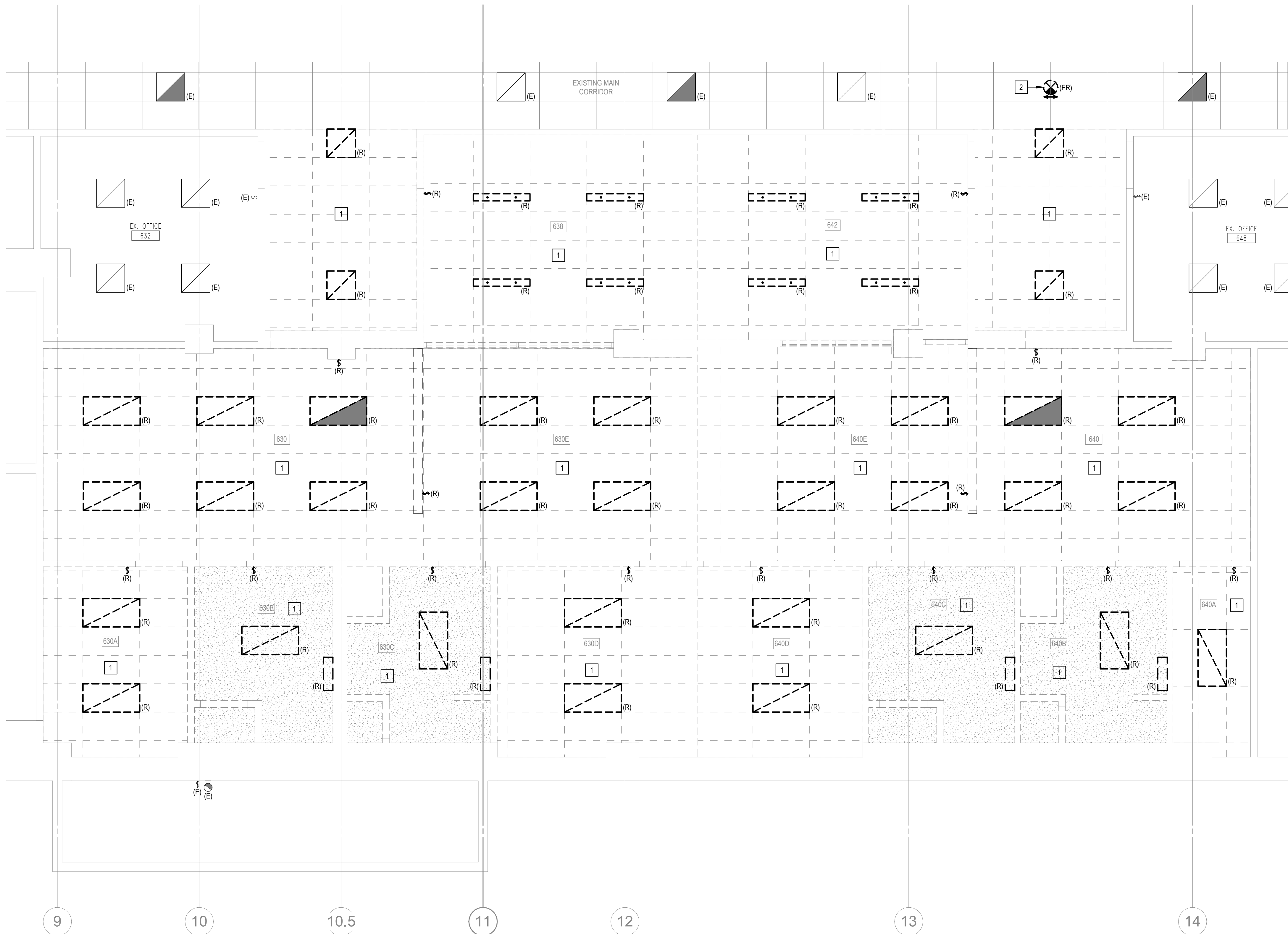
PROJECT TITLE :
**UMB SON
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RENOVATION**

UMB BUILDING NO. : SON - 0833
UMB Project NO. : 26-312
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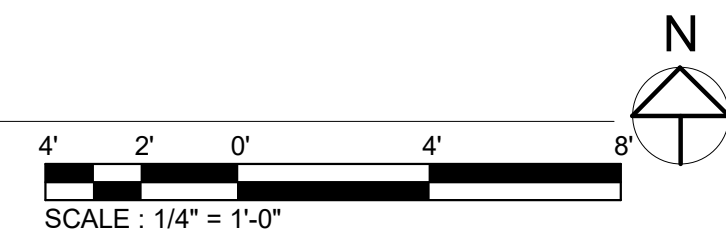
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**OVERALL 6TH
FLOOR PLAN**

REVISIONS		
NO	DATE	ITEM
	2/07/26	100% CD SUBMISSION
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SHEET NO.
ED-100



1 6TH FLOOR - DEMOLITION - LIGHTING
ED-101 SCALE: 1/4" = 1'-0"

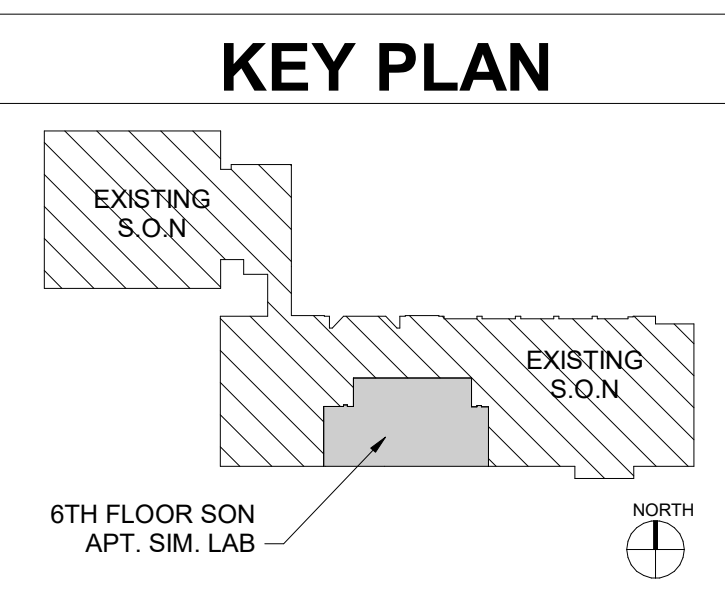


GENERAL DEMOLITION NOTES

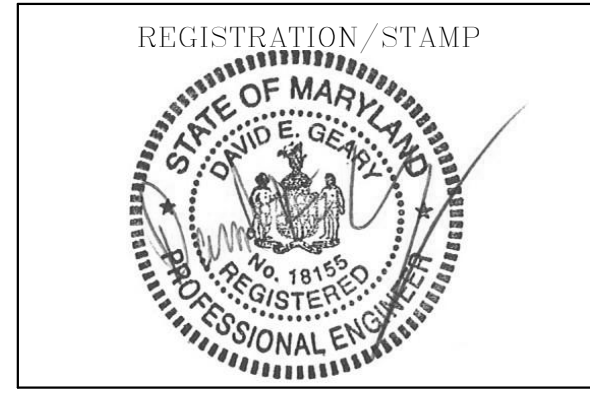
1. ALL CONDITIONS SHOWN SHALL BE CONSIDERED EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED.
2. REQUIRED DEMOLITION WORK SHALL NOT BE LIMITED TO THAT PORTION SHOWN ON PLANS ALONE, BUT SHALL INCLUDE ALL NECESSARY WORK BY THIS CONTRACTOR AFTER VISITING THE SITE PRIOR TO BIDDING. CONTRACTOR SHALL GATHER ALL THE INFORMATION AND COORDINATE WITH THE NEW OR MODIFIED WORK AS INDICATED ON THE DRAWINGS. ANY MAJOR DISCREPANCIES FOUND ON THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ENGINEERS' ATTENTION, IN WRITING, BEFORE SUBMITTING THE BIDS.
3. THE SCHEDULING OF DEMOLITION WORK SHALL BE COORDINATED BY THIS CONTRACTOR WITH THE UMB REPRESENTATIVE PRIOR TO PERFORMING THE WORK. CONTRACTOR SHALL NOTIFY / OBTAIN PERMISSION 10 DAY PRIOR TO ANY OUTAGE.
4. CONTRACTOR SHALL VISIT JOB SITE TO ASCERTAIN CONDITIONS WHICH MAY AFFECT HIS BID AND WORK, AND HE SHALL BE RESPONSIBLE FOR THE INCLUSION OF ALL REQUIRED DEMOLITION IN AREAS UNDERGOING MODIFICATION WHETHER OR NOT SUCH WORK IS INDICATED ON PLANS OR NOTES.
5. CONTRACTOR SHALL CLEAN THE PROJECT SITE AT THE END OF EACH WORKING DAY. AFTER REMOVAL OF ALL DEVICES, CONTRACTOR SHALL TURN ALL DEVICES OVER TO THE UMB REPRESENTATIVE FOR HIM TO INSPECT. AFTER INSPECTION BY THE OWNERS REPRESENTATIVE CONTRACTOR SHALL REMOVE ALL UNWANTED DEVICES OR MATERIALS FROM THE SITE.
6. THE CONTINUITY OF ALL EXISTING CIRCUITS WHICH ARE TO REMAIN OPERATIONAL SHALL BE MAINTAINED THROUGHOUT THE FACILITY DURING DEMOLITION, CONSTRUCTION AND AT THE CONCLUSION OF CONSTRUCTION. THE CONTRACTOR SHALL IDENTIFY ALL CIRCUITS THAT SUPPLY POWER TO AREAS TO REMAIN, MARK THESE CIRCUITS AND MAKE SURE THEIR POWER IS NOT INTERRUPTED DURING DEMOLITION AND CONSTRUCTION. ALL EXISTING CIRCUITS TO REMAIN SHALL BE RECONNECTED TO NEW OR EXISTING PANELS. PROVIDE NEW WIRING AND CIRCUIT BREAKERS OF RATING TO MATCH EXISTING AS REQUIRED.
7. THE CONTRACTOR SHALL MAKE A CAREFUL INSPECTION OF ALL OF THE EXISTING ELECTRICAL POWER AND SYSTEMS PRIOR TO THE MODIFICATION OF THE EXISTING SPACE.

DRAWING NOTES

1. UNLESS OTHERWISE NOTED, ALL LIGHTING FIXTURES, LIGHT CONTROL SWITCHES, AND ASSOCIATED CIRCUITRY WITHIN THE AREA OF WORK SHOWN SHALL BE REMOVED BACK TO SOURCE. RESTORE ANY EXISTING CIRCUITRY TO REMAIN.
2. EXISTING EXIT SIGN TO BE RELOCATED TO ALIGN WITH NEW CORRIDOR SECTION. REFER TO NEW WORK PLAN E-101 FOR NEW LOCATION. RETAIN EXISTING EMERGENCY BRANCH POWER CIRCUIT (PANEL ELP-6A) SERVING CORRIDOR EXIT SIGNS.



PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
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EXPIRATION DATE: 2/14/2027



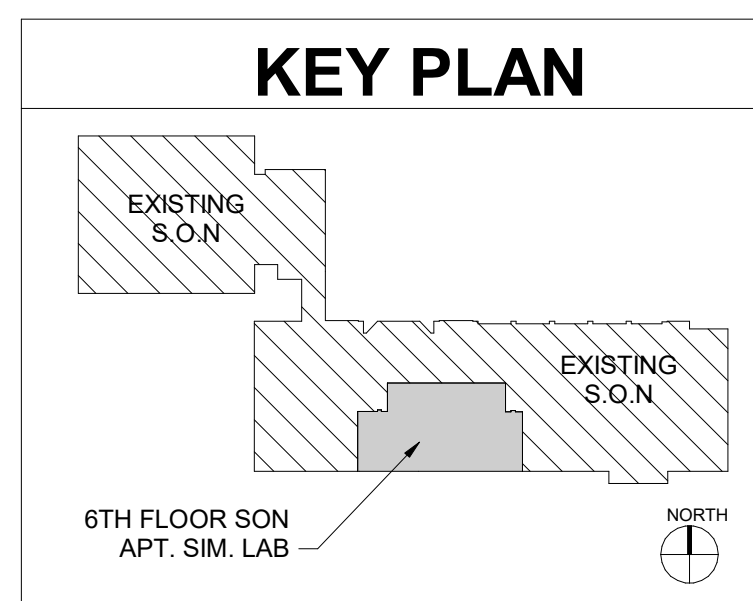
PROJECT TITLE :
**UMB SON
6TH FLOOR
APT. SIM.
RENOVATION**

UMB BUILDING NO. : SON - 0833
UMB Project NO. : 26-312
A/E PROJECT NO. : 25-128
CAD FILE NO. :
DATE :

SHEET TITLE :
**6TH FLOOR -
DEMOLITION -
LIGHTING**

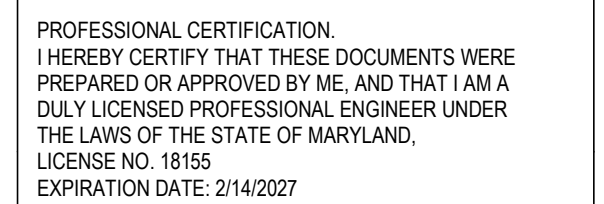
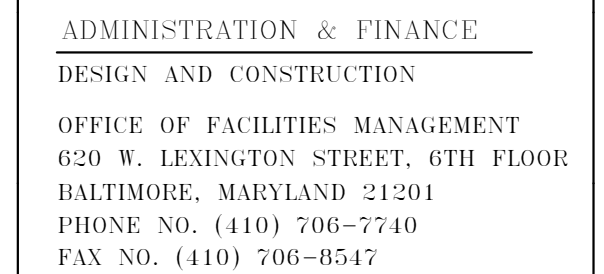
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NO	DATE	ITEM
	2/07/26	100% CD SUBMISSION
	4/08/26	BID SET

SHEET NO.
ED-101



1. ALL CONDITIONS SHOWN SHALL BE CONSIDERED EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED.
2. REQUIRED DEMOLITION WORK SHALL NOT BE LIMITED TO THAT PORTION SHOWN ON PLANS ALONE, BUT SHALL INCLUDE ALL NECESSARY WORK BY THIS CONTRACTOR AFTER VISITING THE SITE PRIOR TO BIDDING. CONTRACTOR SHALL GATHER ALL THE INFORMATION AND COORDINATE WITH THE NEW OR MODIFIED WORK AS INDICATED ON THE DRAWINGS. ANY OR DISCREPANCIES FOUND ON THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ENGINEERS' ATTENTION, IN WRITING, BEFORE SUBMITTING THE BIDS.
3. THE SCHEDULING OF DEMOLITION WORK SHALL BE COORDINATED BY THIS CONTRACTOR WITH THE UMB REPRESENTATIVE PRIOR TO PERFORMING THE WORK. CONTRACTOR SHALL NOTIFY / OBTAIN PERMISSION 10 DAY PRIOR TO ANY OUTAGE.
4. CONTRACTOR SHALL VISIT JOB SITE TO ASCERTAIN CONDITIONS WHICH MAY AFFECT HIS BID AND WORK, AND HE SHALL BE RESPONSIBLE FOR THE INCLUSION OF ALL REQUIRED DEMOLITION IN AREAS UNDERGOING MODIFICATION WHETHER OR NOT SUCH WORK IS INDICATED ON PLANS OR NOTES.
5. CONTRACTOR SHALL CLEAN THE PROJECT SITE AT THE END OF EACH WORKING DAY. AFTER REMOVAL OF ALL DEVICES, CONTRACTOR SHALL TURN ALL DEVICES OVER TO THE UMB REPRESENTATIVE FOR HIM TO INSPECT. AFTER INSPECTION BY THE OWNERS' REPRESENTATIVE CONTRACTOR SHALL REMOVE ALL UNWANTED DEVICES OR MATERIALS FROM THE SITE.
6. THE CONTINUITY OF ALL EXISTING CIRCUITS WHICH ARE TO REMAIN OPERATIONAL SHALL BE MAINTAINED THROUGHOUT THE FACILITY DURING DEMOLITION, CONSTRUCTION AND AT THE CONCLUSION OF CONSTRUCTION. THE CONTRACTOR SHALL IDENTIFY ALL CIRCUITS THAT SUPPLY POWER TO AREAS TO REMAIN, MARK THESE CIRCUITS AND MAKE SURE THEIR POWER IS NOT INTERRUPTED DURING DEMOLITION AND CONSTRUCTION. ALL EXISTING CIRCUITS TO REMAIN SHALL BE RECONNECTED TO NEW OR EXISTING PANELS, PROVIDE NEW WIRING AND CIRCUIT BREAKERS OF RATING TO MATCH EXISTING AS REQUIRED.
7. THE CONTRACTOR SHALL MAKE A CAREFUL INSPECTION OF ALL OF THE EXISTING ELECTRICAL POWER AND SYSTEMS PRIOR TO THE MODIFICATION OF THE EXISTING SPACE.

1. EXISTING SMOKE DAMPER TO BE REMOVED. EC TO COORDINATE ALL WORK WITH FIRE ALARM AND MECHANICAL CONTRACTORS PRIOR TO PERFORMING ANY WORK. EC IS RESPONSIBLE FOR REMOVING ANY ASSOCIATED LINE VOLTAGE CIRCUITRY / HARDWARE BACK TO SOURCE.
2. EXISTING FAN POWERED TERMINAL UNIT "FTB 6-16" TO BE REMOVED. EC TO REMOVE ASSOCIATED SWITCH AND CIRCUITRY ENTIRELY BACK TO SOURCE (PANEL RP-6A #68). COORDINATE ALL WORK WITH MECH DRAWINGS AND CONTRACTOR PRIOR TO PERFORMING WORK.
3. EXISTING FAN POWERED TERMINAL UNIT "FTB 6-17" TO BE REMOVED. EC TO REMOVE ASSOCIATED SWITCH AND CIRCUITRY ENTIRELY BACK TO SOURCE (PANEL RP-6A #69). COORDINATE ALL WORK WITH MECH DRAWINGS AND CONTRACTOR PRIOR TO PERFORMING WORK.
4. EXISTING FAN POWERED TERMINAL UNIT "FTB 6-14" TO BE REMOVED. EC TO REMOVE ASSOCIATED SWITCH AND CIRCUITRY ENTIRELY BACK TO SOURCE (PANEL RP-6A #67). COORDINATE ALL WORK WITH MECH DRAWINGS AND CONTRACTOR PRIOR TO PERFORMING WORK.
5. EXISTING FAN POWERED TERMINAL UNIT "FTB 6-13" TO BE REMOVED. EC TO REMOVE ASSOCIATED SWITCH AND RETAIN EXISTING BRANCH POWER CIRCUIT (PANEL RP-6A #65) IN CEILING SPACE TO BE REUSED. REFER TO NEW WORK PLAN ON E-102 FOR ADDITIONAL INFORMATION. COORDINATE ALL WORK WITH MECH DRAWINGS AND CONTRACTOR PRIOR TO PERFORMING WORK.
6. EXISTING FAN POWERED TERMINAL UNIT "FTB 6-11" TO BE REMOVED. EC TO REMOVE ASSOCIATED SWITCH AND RETAIN EXISTING BRANCH POWER CIRCUIT (PANEL RP-6A #63) IN CEILING SPACE TO BE REUSED. REFER TO NEW WORK PLAN ON E-102 FOR ADDITIONAL INFORMATION. COORDINATE ALL WORK WITH MECH DRAWINGS AND CONTRACTOR PRIOR TO PERFORMING WORK.



PROJECT TITLE :

UMB SON
6TH FLOOR
APT. SIM.
RENOVATION

UMB BUILDING NO. :	SON - 0833
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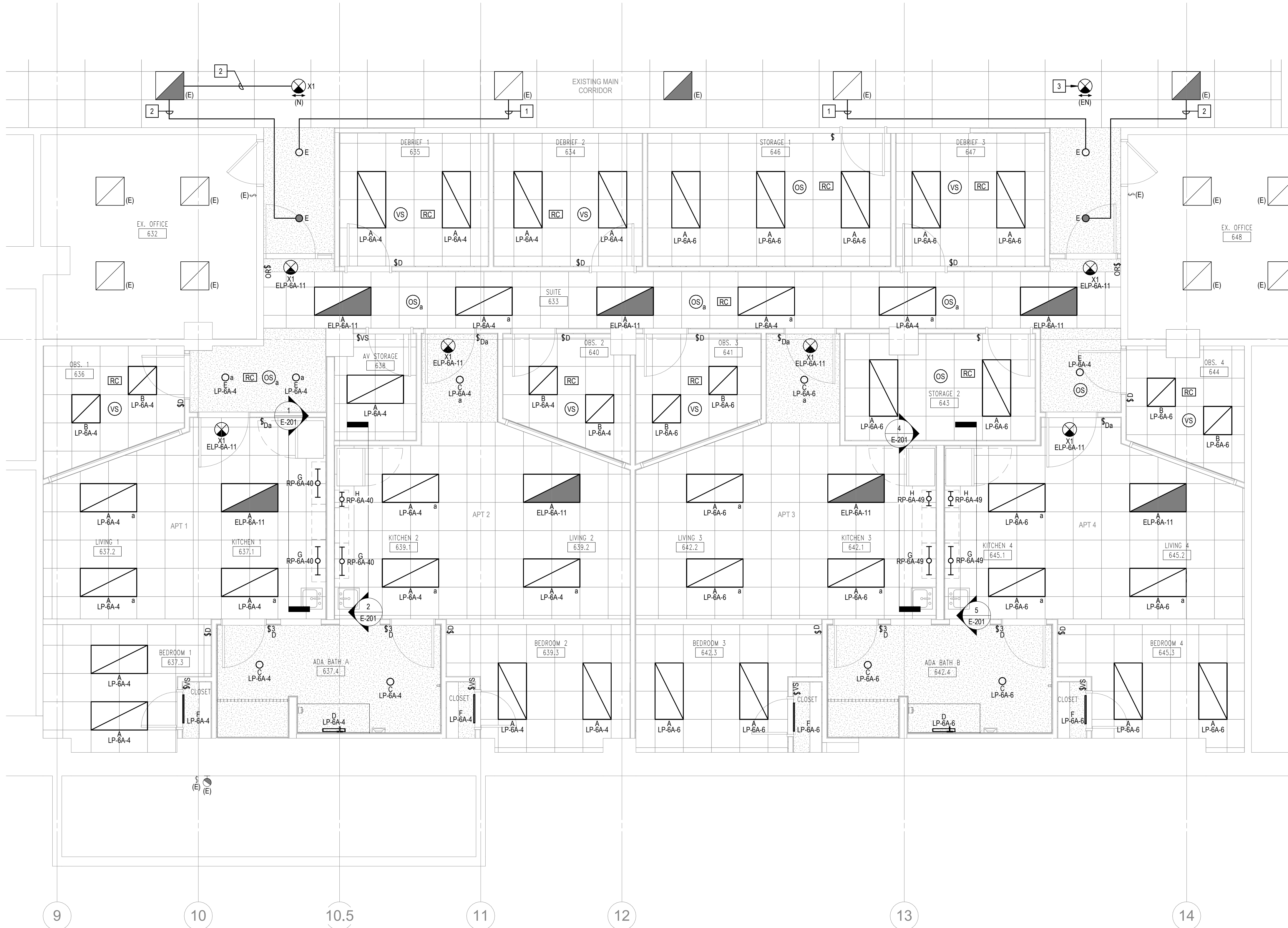
SHEET TITLE :

**6TH FLOOR -
DEMOLITION -
POWER**

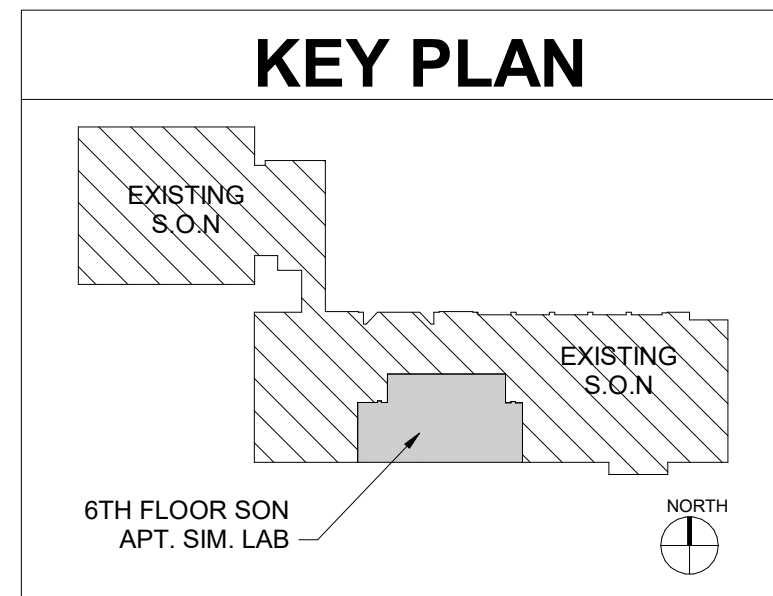
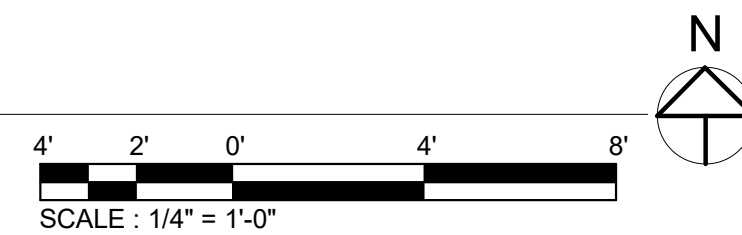
REVISIONS		
NO	DATE	ITEM
	2/07/26	100% CD SUBMISSION
	4/08/26	BID SET

SHEET NO.

ED-102

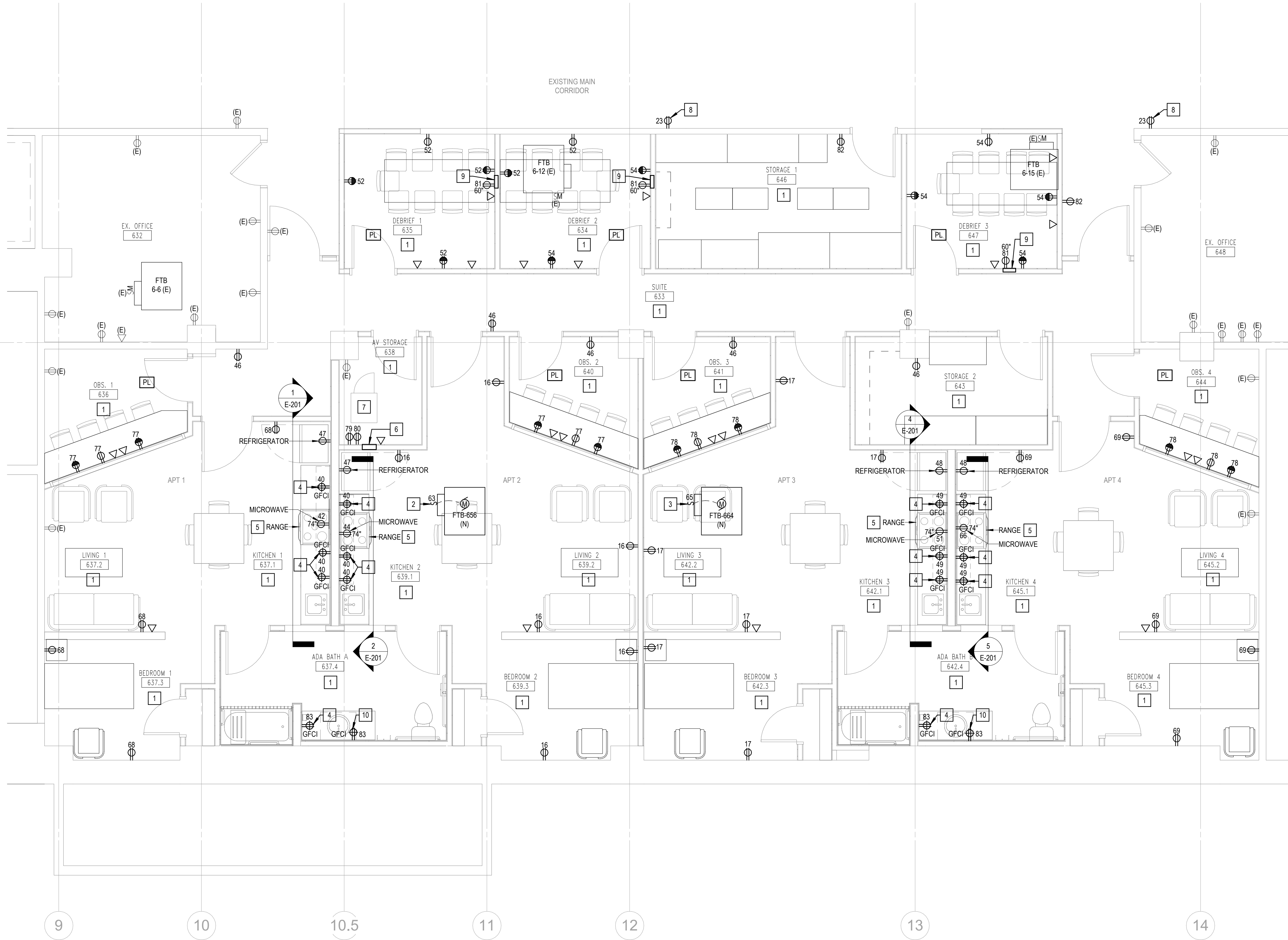


1 6TH FLOOR - NEW WORK - LIGHTING
E-101 SCALE: 1/4" = 1'-0"

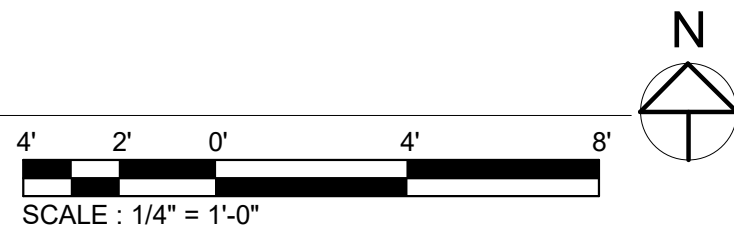


- GENERAL NOTES
1. ALL CONDITIONS SHOWN SHALL BE CONSIDERED NEW UNLESS OTHERWISE NOTED.
- DRAWING NOTES
1. CONNECT TO EXISTING BRANCH LIGHTING CIRCUIT (PANEL LP-6A-49) AND CONTROL SCHEME SERVING THE EXISTING MAIN CORRIDOR. CIRCUITRY TO BE 2# 12 + 1#12 EG PLUS CONTROL WIRING IN 3/4" C.
2. CONNECT TO EXISTING EMERGENCY BRANCH LIGHTING CIRCUIT AND CONTROL SCHEME SERVING THE EXISTING MAIN CORRIDOR (PANEL ELP-6A). CIRCUITRY TO BE 2#12 + 1#12 EG PLUS CONTROL WIRING IN 3/4" C.
3. EXISTING EXIT SIGN IN NEW LOCATION. RECONNECT TO EXISTING EMERGENCY BRANCH POWER CIRCUIT SERVING CORRIDOR EXIT SIGNS (PANEL ELP-6A). EXTEND CIRCUITRY AS REQUIRED.

REVISIONS		
NO	DATE	ITEM
2	2/07/26	100% CD SUBMISSION
4	08/26	BID SET

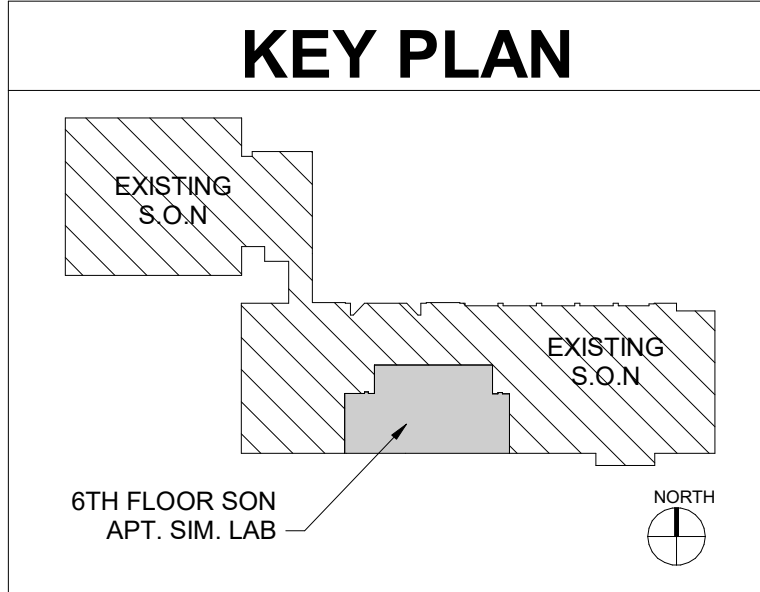


1 6TH FLOOR - NEW WORK - POWER
E-102 SCALE: 1/4" = 1'-0"

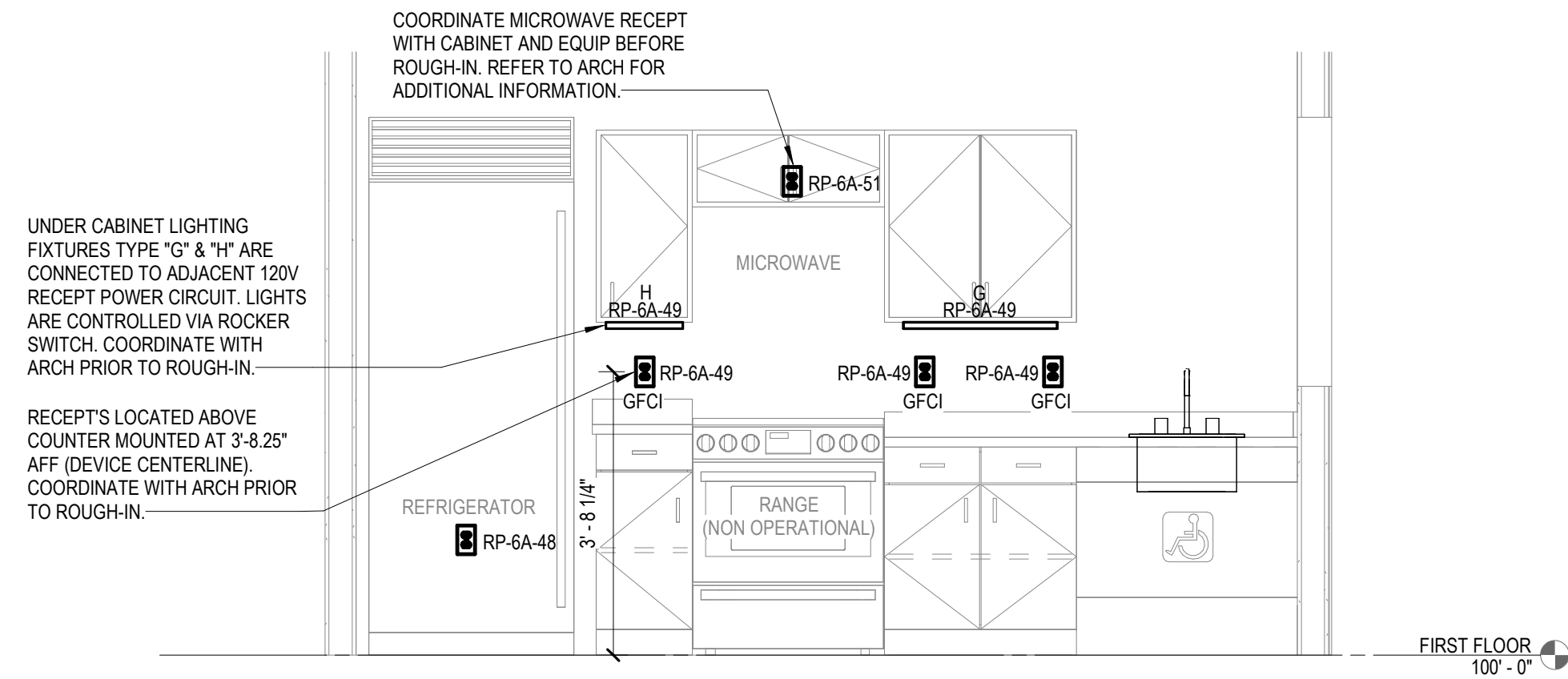


- ### GENERAL NOTES
- ALL CONDITIONS SHOWN SHALL BE CONSIDERED NEW UNLESS OTHERWISE NOTED.
 - ELECTRICAL CONTRACTOR SHALL REVIEW AND COORDINATE ALL LV / AV REQUIREMENTS & LOCATIONS WITH THE TA SERIES DRAWING PACKAGE AND LV / AV CONTRACTOR PRIOR TO PROCURING MATERIALS OR ROUGH-IN.
 - ELECTRICAL CONTRACTOR SHALL REVIEW AND COORDINATE ALL MECH / PLUMB REQUIREMENTS WITH THE MECH / PLUMB CONTRACTOR PRIOR TO ROUGH-IN.
 - ANY BRANCH POWER CIRCUIT EXCEEDING 75'-0" IN TOTAL LENGTH, SHALL HAVE A MINIMUM CONDUCTOR SIZE OF #10 AWG.

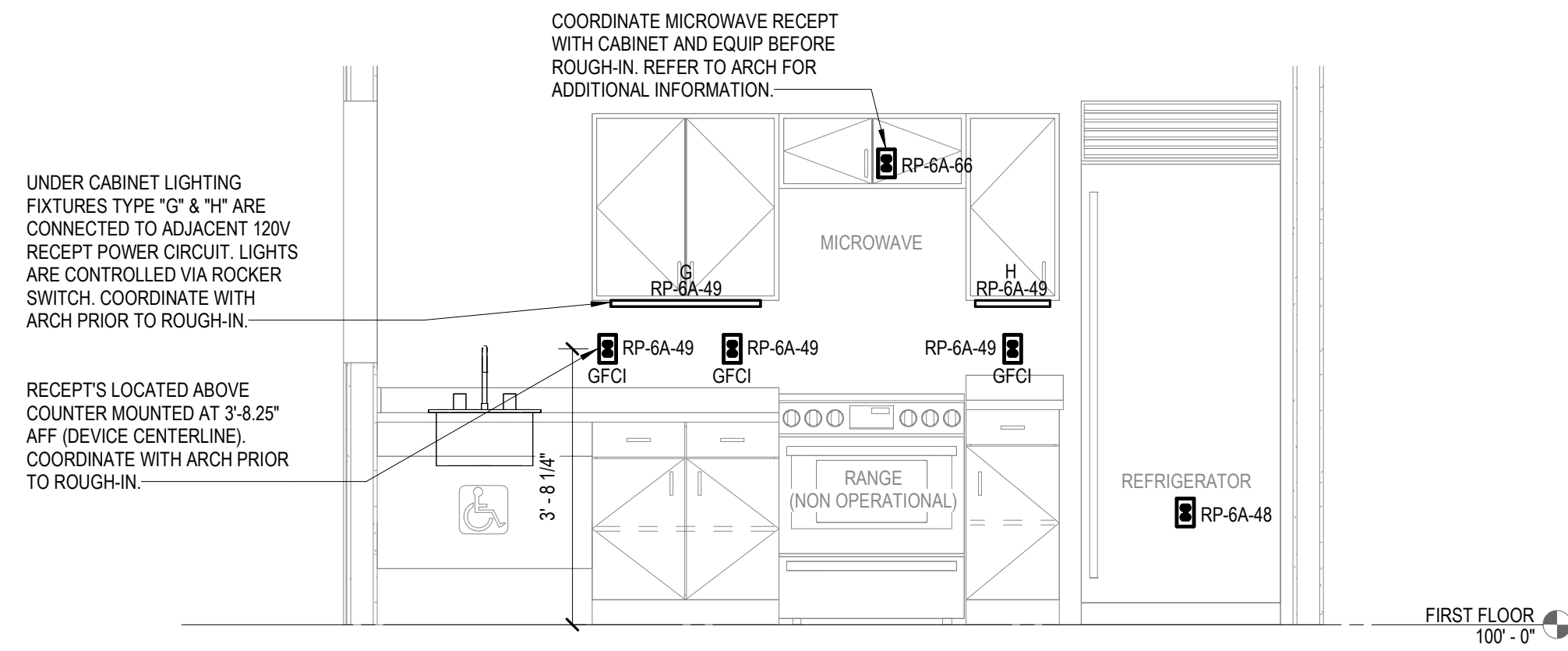
- ### DRAWING NOTES
- UNLESS OTHERWISE NOTED, ALL NORMAL BRANCH POWER CIRCUITS IN THIS ROOM ARE FED FROM EXISTING PANEL "RP-6A" AND ALL EMERGENCY BRANCH POWER CIRCUITS IN THIS ROOM ARE FED FROM EXISTING PANEL "ERP-8A" LOCATED IN ELECTRICAL ROOM 620A. NUMERAL ADJACENT TO DEVICE INDICATES THE CIRCUIT NUMBER. REFER TO PANEL SCHEDULE SHEET E-502 AND ELECTRICAL ROOM PLAN ON SHEET ED-100 FOR ADDITIONAL INFORMATION.
 - NEW FAN POWERED TERMINAL UNIT "FTB-656" (113HP, 120V, 2.9A). LOCAL DISCONNECT TO BE PROVIDED WITH MECH PACKAGE. ELEC CONTRACTOR TO PROVIDE SINGLE POINT OF CONNECTION USING EXISTING BRANCH CIRCUIT RETAINED IN CEILING SPACE FROM DEMOLITION PHASE (PANEL "RP-6A" # 63). COORDINATE ALL WORK WITH MECH DRAWINGS AND CONTRACTOR PRIOR TO PERFORMING WORK.
 - NEW FAN POWERED TERMINAL UNIT "FTB-654" (113HP, 120V, 2.9A). LOCAL DISCONNECT TO BE PROVIDED WITH MECH PACKAGE. ELEC CONTRACTOR TO PROVIDE SINGLE POINT OF CONNECTION USING EXISTING BRANCH CIRCUIT RETAINED IN CEILING SPACE FROM DEMOLITION PHASE (PANEL "RP-6A" # 63). COORDINATE ALL WORK WITH MECH DRAWINGS AND CONTRACTOR PRIOR TO PERFORMING WORK.
 - RECEPTACLE ABOVE COUNTERTOP SHALL BE MOUNTED AT 3'-8.25" AFF (DEVICE CENTERLINE) PER ADA. COORDINATE WITH ARCH PRIOR TO ROUGH-IN. REFER TO ARCH DRAWINGS FOR ADDITIONAL INFORMATION.
 - NEW KITCHEN RANGE IS FOR VISUAL PURPOSES ONLY. NO UTILITY CONNECTION IS REQUIRED.
 - 5-GANG AV WALLBOX MOUNTED AT 18" AFF BEHIND AV EQUIPMENT RACK WITH THREE 1-1/4" CONDUIT UP TO ACCESSIBLE CEILING SPACE. REFER TO LOW VOLTAGE SHEET TA-500/4 FOR ADDITIONAL INFORMATION. ELEC CONTRACTOR TO COORDINATE WITH AV / LV CONTRACTOR PRIOR TO PROCURING MATERIALS OR ROUGH-IN.
 - AV EQUIPMENT RACK PROVIDED BY OTHERS. REFER TO LV DRAWINGS FOR ADDITIONAL INFORMATION.
 - CONNECT NEW RECEPTACLE TO EXISTING CORRIDOR BRANCH POWER CIRCUIT (PANEL RP-6A #23).
 - PWB-100 FLAT PANEL DISPLAY WALL BOX (PROVIDED BY OTHERS). MOUNTED AT 60" AFF. EC TO PROVIDE ONE NEMA 5-20R DUPLEX RECEPTACLE & BRANCH CIRCUIT. EC TO ALSO PROVIDE ONE 1-1/4" CONDUIT UP TO ACCESSIBLE CEILING SPACE FOR TELCOM & CONTROL WIRING. REFER TO LV DRAWING TA-500 FOR ADDITIONAL INFORMATION. EC SHALL COORDINATE / CONFIRM ALL REQUIREMENTS & EXACT LOCATION WITH AV / TELCOM CONTRACTORS PRIOR TO ROUGH-IN.
 - TRAP PRIMER (115V / 1PH) PROVIDED UNDER DIV 22. SCOPE OF WORK: TRAP PRIMER WILL BE INSTALLED UNDER SINK BASIN AND PROVIDED WITH A GROM AND PLUG. ELEC CONTRACTOR IS RESPONSIBLE FOR GFCI RECEPT (NEMA 5-20R) MOUNTED AT 18" AFF. COORDINATE EXACT LOCATION AND CONFIRM REQUIREMENT WITH INSTALLING PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.



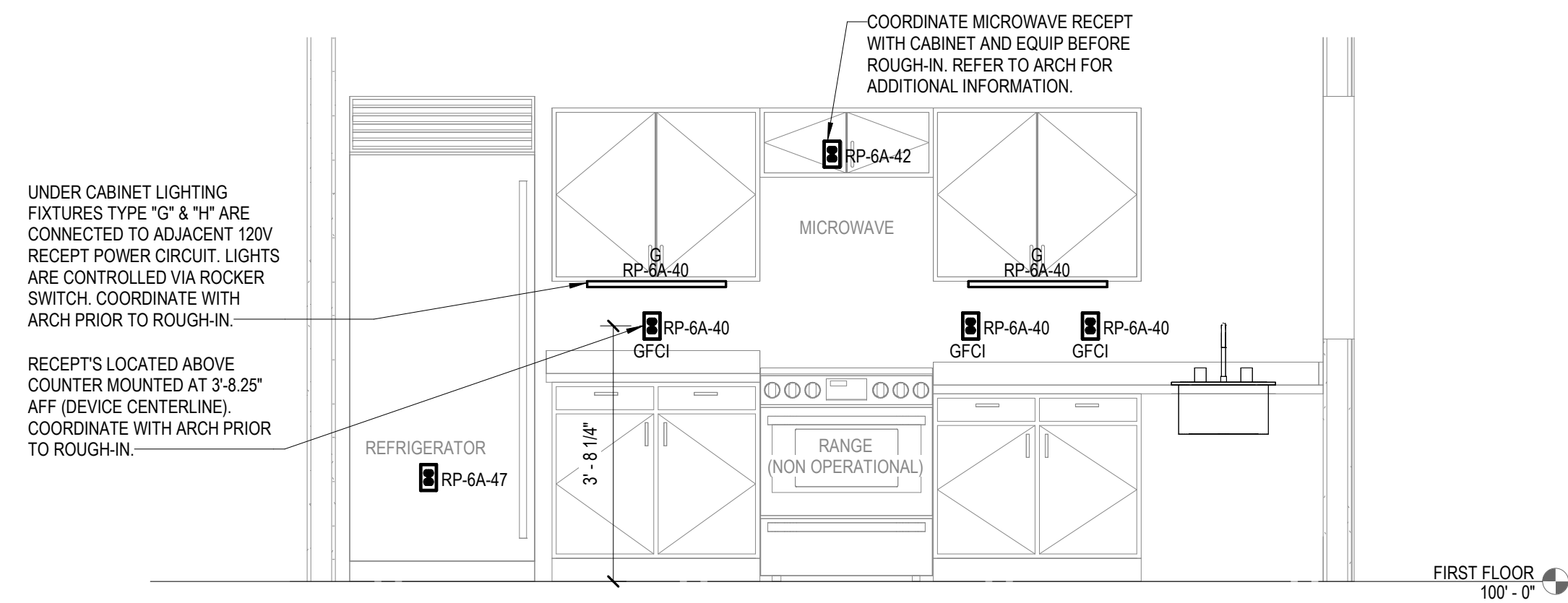
REVISIONS		
NO	DATE	ITEM
	2/07/26	100% CD SUBMISSION
	4/08/26	BID SET



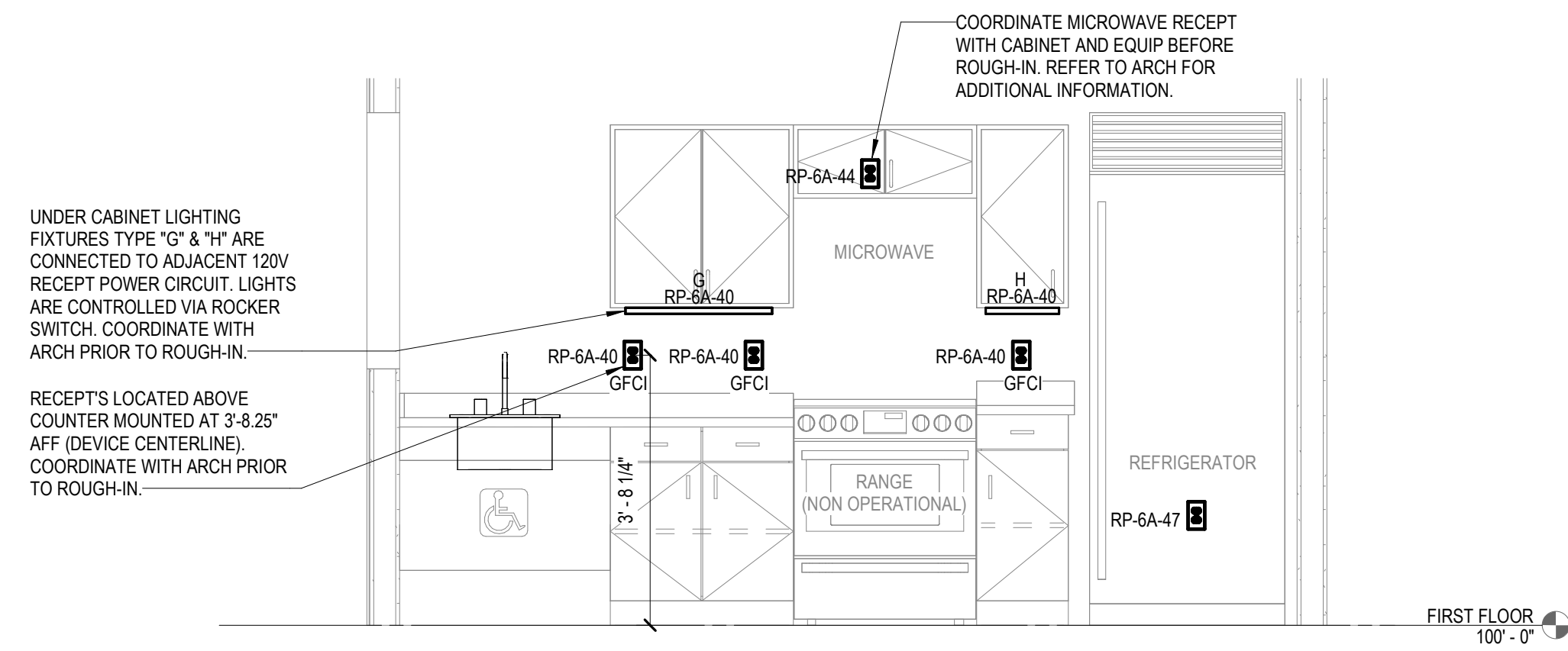
4 Section 3 - KITCHEN ELECTRICAL DETAIL
E-201 SCALE: 1/2" = 1'-0"



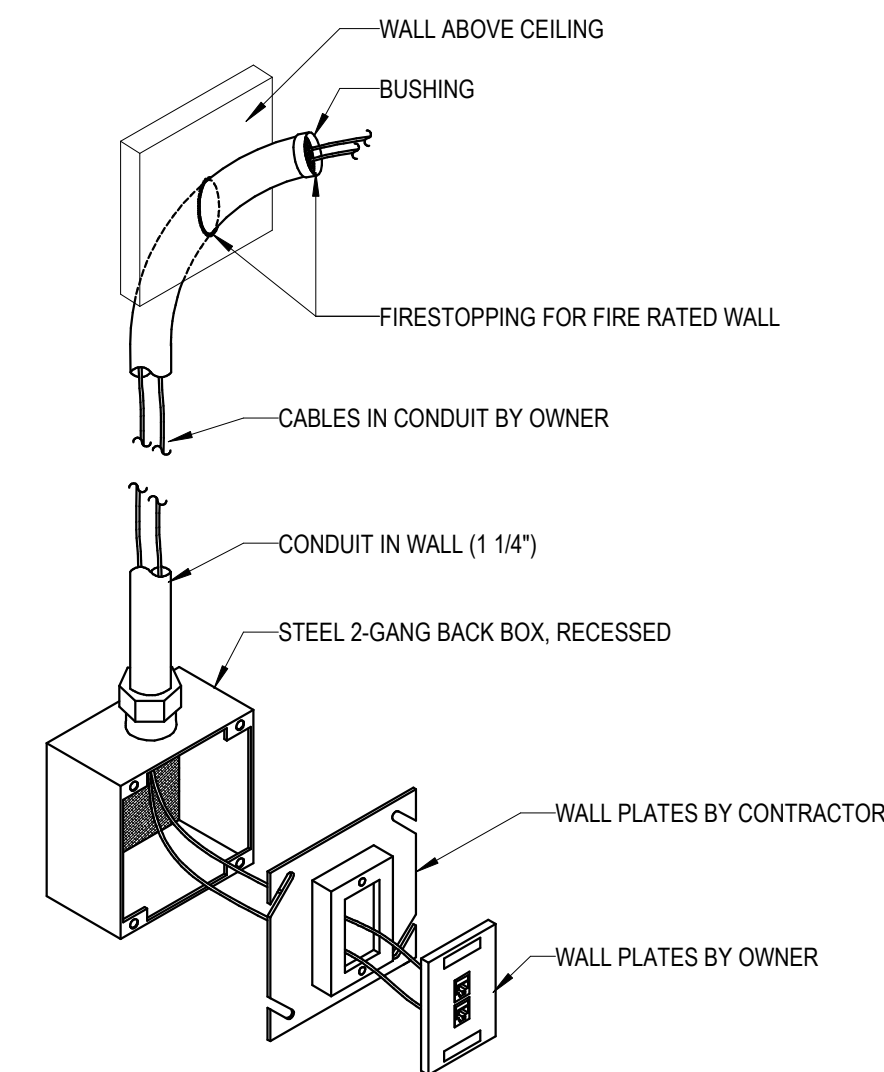
5 Section 4 - KITCHEN ELECTRICAL DETAIL
E-201 SCALE: 1/2" = 1'-0"



1 Section 1 - KITCHEN ELECTRICAL DETAIL
E-201 SCALE: 1/2" = 1'-0"



2 Section 2 - KITCHEN ELECTRICAL DETAIL
E-201 SCALE: 1/2" = 1'-0"



3 TYPICAL TEL/COM WALL BOX DETAIL
E-201 NOT TO SCALE

REVISIONS		
NO	DATE	ITEM
	2/07/26	100% CD SUBMISSION
	4/08/26	BID SET



Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
APT. 1	+	40.8 fc	55.7 fc	18.5 fc	3.0:1	2.2:1
APT. 2	+	41.8 fc	56.7 fc	26.0 fc	2.2:1	1.6:1
APT. 3	+	40.6 fc	55.7 fc	22.0 fc	2.5:1	1.8:1
APT. 4	+	40.0 fc	54.8 fc	21.3 fc	2.6:1	1.9:1
AV STORAGE (661)	+	27.6 fc	31.5 fc	24.2 fc	1.3:1	1.1:1
BEDROOM 1	+	35.9 fc	48.2 fc	20.2 fc	2.4:1	1.8:1
BEDROOM 2	+	32.8 fc	42.5 fc	16.6 fc	2.6:1	2.0:1
BEDROOM 3	+	32.3 fc	42.3 fc	16.3 fc	2.6:1	2.0:1
BEDROOM 4	+	32.7 fc	43.0 fc	16.9 fc	2.5:1	1.9:1
CLOSET (BEDROOM 1)	+	13.3 fc	13.8 fc	12.8 fc	1.1:1	1.0:1
CLOSET (BEDROOM 2)	+	14.0 fc	14.3 fc	13.6 fc	1.1:1	1.0:1
CLOSET (BEDROOM 3)	+	13.0 fc	13.3 fc	12.6 fc	1.1:1	1.0:1
CLOSET (BEDROOM 4)	+	13.1 fc	13.4 fc	12.8 fc	1.0:1	1.0:1
DEBRIEF 1 (635)	+	40.2 fc	52.6 fc	29.4 fc	1.8:1	1.4:1
DEBRIEF 2 (634)	+	40.2 fc	52.7 fc	29.2 fc	1.8:1	1.4:1
DEBRIEF 3 (647)	+	40.2 fc	52.6 fc	29.3 fc	1.8:1	1.4:1
MAIN CORR EXTENSION A	+	21.6 fc	24.7 fc	18.6 fc	1.3:1	1.2:1
MAIN CORR EXTENSION B	+	20.7 fc	25.2 fc	17.8 fc	1.4:1	1.2:1
OBS. 1 (647)	+	36.4 fc	47.7 fc	21.3 fc	2.2:1	1.7:1
OBS. 2 (657)	+	39.1 fc	49.8 fc	26.0 fc	1.9:1	1.5:1
OBS. 3 (663)	+	38.9 fc	49.3 fc	26.7 fc	1.8:1	1.5:1
OBS. 4 (666)	+	38.8 fc	49.5 fc	27.3 fc	1.8:1	1.4:1
SHARED BATH A	+	29.9 fc	42.5 fc	13.2 fc	3.2:1	2.3:1
SHARED BATH B	+	29.8 fc	42.3 fc	13.2 fc	3.2:1	2.3:1
STORAGE 1 (646)	+	34.1 fc	42.6 fc	26.1 fc	1.6:1	1.3:1
STORAGE 2 (662)	+	28.8 fc	33.0 fc	21.8 fc	1.5:1	1.3:1
SUITE (633)	+	27.5 fc	31.8 fc	17.6 fc	1.8:1	1.6:1

Power Statistics				
Description	# Luminaires	Total Watts	Area	Density
APT. 1	4	136.8 W	255.7 ft²	0.5 W/ft²
APT. 2	5	159.3 W	298.9 ft²	0.5 W/ft²
APT. 3	5	159.3 W	301.4 ft²	0.5 W/ft²
APT. 4	4	136.8 W	259.3 ft²	0.5 W/ft²
AV STORAGE (661)	1	34.2 W	41.3 ft²	0.8 W/ft²
BEDROOM 1	2	68.4 W	93.2 ft²	0.7 W/ft²
BEDROOM 2	2	68.4 W	101.7 ft²	0.7 W/ft²
BEDROOM 3	2	68.4 W	104.9 ft²	0.7 W/ft²
BEDROOM 4	2	68.4 W	98.0 ft²	0.7 W/ft²
CLOSET (BEDROOM 1)	1	10.9 W	8.0 ft²	1.4 W/ft²
CLOSET (BEDROOM 2)	1	10.9 W	7.9 ft²	1.4 W/ft²
CLOSET (BEDROOM 3)	1	10.9 W	9.9 ft²	1.1 W/ft²
CLOSET (BEDROOM 4)	1	10.9 W	8.0 ft²	1.4 W/ft²
DEBRIEF 1 (635)	2	68.4 W	98.7 ft²	0.7 W/ft²
DEBRIEF 2 (634)	2	68.4 W	98.7 ft²	0.7 W/ft²
DEBRIEF 3 (647)	2	68.4 W	98.7 ft²	0.7 W/ft²
MAIN CORR EXTENSION A	2	20.9 W	44.6 ft²	0.5 W/ft²
MAIN CORR EXTENSION B	2	20.9 W	45.0 ft²	0.5 W/ft²
OBS. 1 (647)	2	59.0 W	76.1 ft²	0.8 W/ft²
OBS. 2 (657)	2	59.0 W	66.3 ft²	0.9 W/ft²
OBS. 3 (663)	2	59.0 W	67.3 ft²	0.9 W/ft²
OBS. 4 (666)	2	59.0 W	65.9 ft²	0.9 W/ft²
SHARED BATH A	2	45.0 W	122.3 ft²	0.4 W/ft²
SHARED BATH B	3	81.0 W	120.0 ft²	0.7 W/ft²
STORAGE 1 (646)	3	102.6 W	161.4 ft²	0.6 W/ft²
STORAGE 2 (662)	2	68.4 W	98.0 ft²	0.7 W/ft²
SUITE (633)	9	236.5 W	335.6 ft²	0.7 W/ft²

1 LIGHTING CALCULATIONS
E-401 SCALE: 1/4" = 1'-0"

Schedule								
Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Lumens per Lamp	LLF Wattage
	A	42	H.E. WILLIAMS INDOOR	AT1-24-L40-835-D-DIM-UNV	RECESSED 2 X 4 LED LUMINAIRE w/WHITE REFL, FROST CONCAVE ACRYLIC LENS w/SHALLOW ACRYLIC CENTER	LED	4034	0.9 34.2
	B	8	H.E. WILLIAMS INDOOR	AT1-22-L30-835-D-DIM-UNV	RECESSED 2 X 2 LED LUMINAIRE w/WHITE REFL, FROST CONCAVE ACRYLIC LENS w/SHALLOW ACRYLIC CENTER	LED	3027	0.9 29.5
	C	6	LITHONIA LIGHTING	LDN6 35/20 L06AR LS	6IN LDN, 3500K, 2000LM, CLEAR, SPECULAR REFLECTOR, CRI80	LED	2084	0.9 22.52
	D	2	VISUAL COMFORT & CO.	700BCELI-36-S-LED930-277	LED BATH BAR - OVER SINK	LED	1995	0.9 36
	E	7	LITHONIA LIGHTING	LDN6 35/10 L06AR LS	6IN LDN, 3500K, 1000LM, CLEAR, SPECULAR REFLECTOR, CRI80	LED	987	0.9 10.44
	F	4	LITHONIA LIGHTING	CLX L24 1500LM SEF FDL GZ10 35K 80CRI	CLX LED Linear 24" 1,500 lumens, Standard Efficiency, Less louver, flat diffuse lens, General distribution, 0-10V dimming, 3500 CCT, 80 CRI	LED	1358	0.9 10.85

ADMINISTRATION & FINANCE
DESIGN AND CONSTRUCTION
OFFICE OF FACILITIES MANAGEMENT
630 W. LEXINGTON STREET, 6TH FLOOR
BALTIMORE, MARYLAND 21201
PHONE NO. (410) 706-7710
FAX NO. (410) 706-8517

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 18155
EXPIRATION DATE: 2/14/2027

REGISTRATION / STAMP

PROJECT TITLE :
**UMB SON
6TH FLOOR
APT. SIM.
RENOVATION**

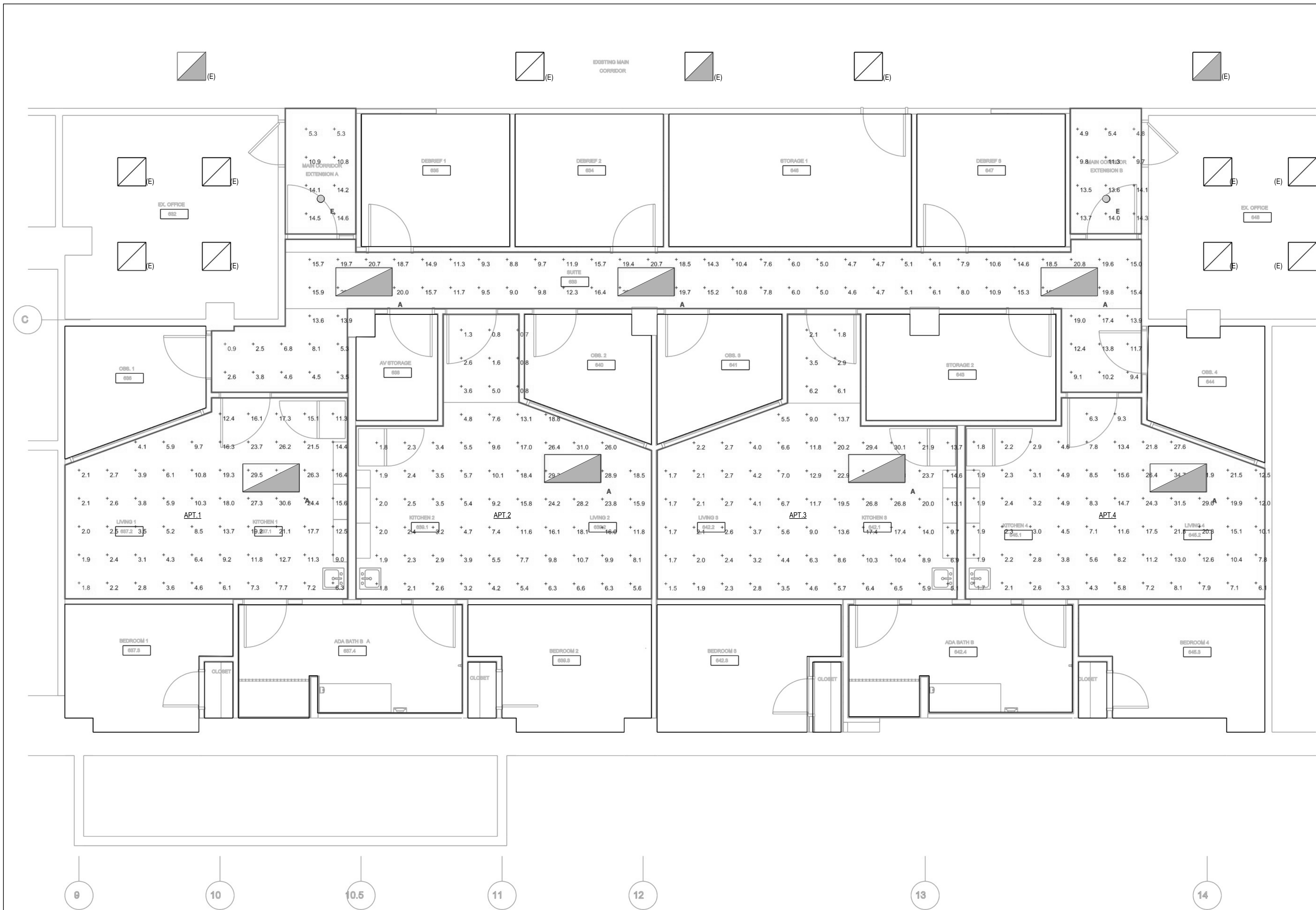
UMB BUILDING NO. : SON - 0833
UMB Project NO. : 26-312
A/E PROJECT NO. : 25-128
CAD FILE NO. :
DATE :

SHEET TITLE :
**LIGHTING
CALCULATIONS**

REVISIONS

NO	DATE	ITEM
2/07/26	100% CD SUBMISSION	
4/08/26	BID SET	

SHEET NO.
E-401



1
E-402
EMERGENCY LIGHTING CALCULATIONS
NOT TO SCALE

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
APT. 1	+	11.3 fc	33.2 fc	1.8 fc	18.4:1	6.3:1
APT. 2	+	9.3 fc	34.6 fc	0.7 fc	49.4:1	13.3:1
APT. 3	+	9.4 fc	33.0 fc	1.5 fc	22.0:1	6.3:1
APT. 4	+	10.2 fc	34.7 fc	1.7 fc	20.4:1	6.0:1
MAIN CORR EXTENSION A	+	11.2 fc	14.6 fc	5.3 fc	2.8:1	2.1:1
MAIN CORR EXTENSION B	+	10.8 fc	14.3 fc	4.8 fc	3.0:1	2.3:1
SUITE (633)	+	12.0 fc	22.2 fc	0.9 fc	24.7:1	13.3:1

Power Statistics				
Description	# Luminaires	Total Watts	Area	Density
APT. 1	1	34.2 W	255.7 ft²	0.1 W/ft²
APT. 2	1	34.2 W	298.9 ft²	0.1 W/ft²
APT. 3	1	34.2 W	301.4 ft²	0.1 W/ft²
APT. 4	1	34.2 W	259.3 ft²	0.1 W/ft²
MAIN CORR EXTENSION A	1	10.4 W	44.6 ft²	0.2 W/ft²
MAIN CORR EXTENSION B	1	10.4 W	45.0 ft²	0.2 W/ft²
SUITE (633)	3	102.6 W	335.6 ft²	0.3 W/ft²

Schedule								
Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Lumens per Lamp	LLF Wattage
	A	7	H.E. WILLIAMS INDOOR	AT1-24-L40-835-D-DIM-UNV	RECESSED 2 X 4 LED LUMINAIRE w/WHITE REFL, FROST CONCAVE ACRYLIC LENS w/SHALLOW ACRYLIC CENTER	LED	4034	0.9 34.2
	E	2	LITHONIA LIGHTING	LDN6 35/10 LO6AR LS	6IN LDN, 3500K, 1000LM, CLEAR, SPECULAR REFLECTOR, CRI80	LED	987	0.9 10.44

ADMINISTRATION & FINANCE
DESIGN AND CONSTRUCTION
OFFICE OF FACILITIES MANAGEMENT
630 W. LEXINGTON STREET, 6TH FLOOR
BALTIMORE, MARYLAND 21201
PHONE NO. (410) 706-7710
FAX NO. (410) 706-8517

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND THAT I AM A
DULY LICENSED PROFESSIONAL ENGINEER UNDER
THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 18155
EXPIRATION DATE: 2/14/2027

REGISTRATION / STAMP

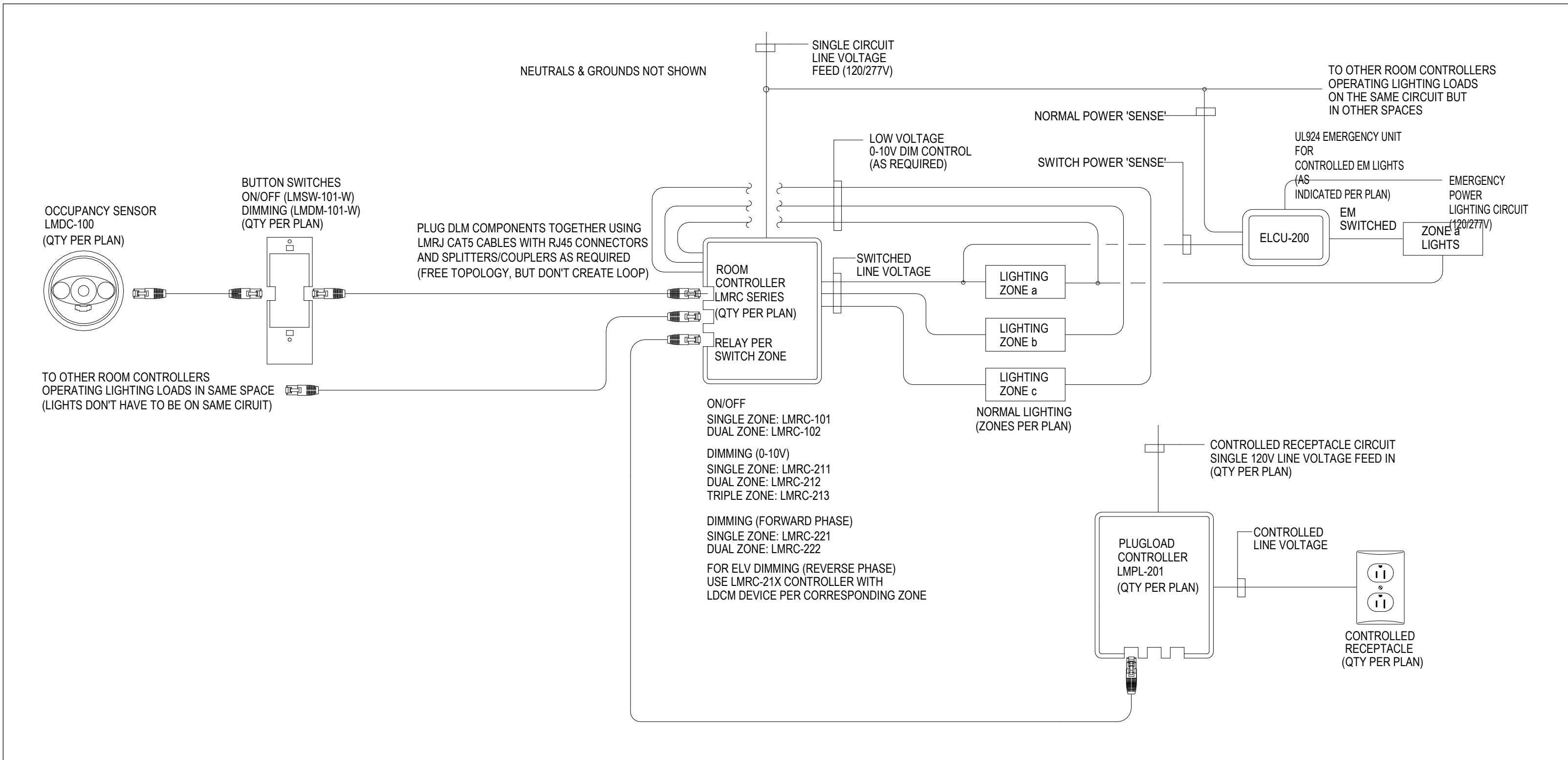
PROJECT TITLE :
**UMB SON
6TH FLOOR
APT. SIM.
RENOVATION**

UMB BUILDING NO. : SON - 0833
UMB Project NO. : 26-312
A/E PROJECT NO. : 25-128
CAD FILE NO. :
DATE :

SHEET TITLE :
**EMERGENCY
LIGHTING
CALCULATIONS**

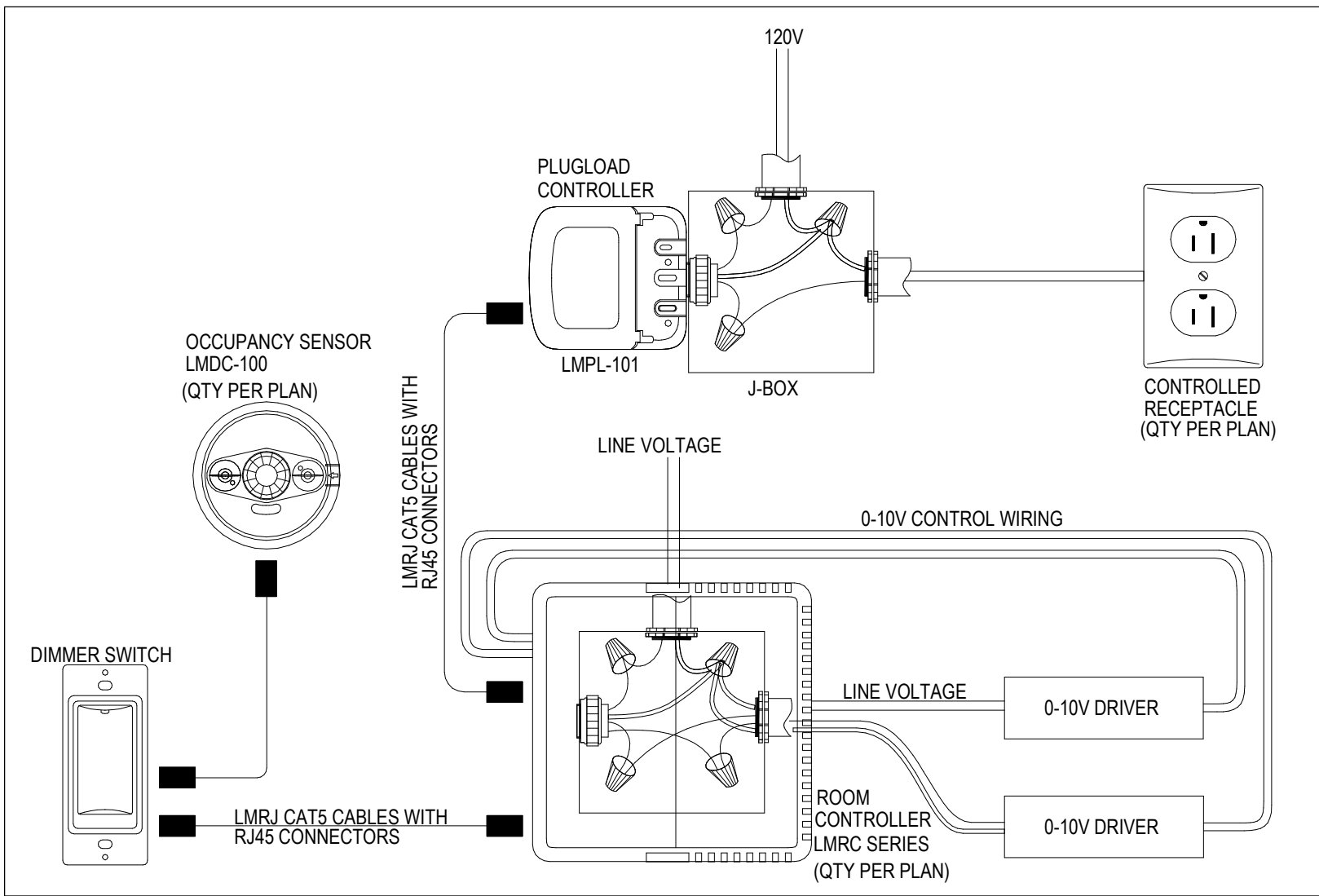
REVISIONS		
NO	DATE	ITEM
	2/07/26	100% CD SUBMISSION
	4/08/26	BID SET

SHEET NO.
E-402



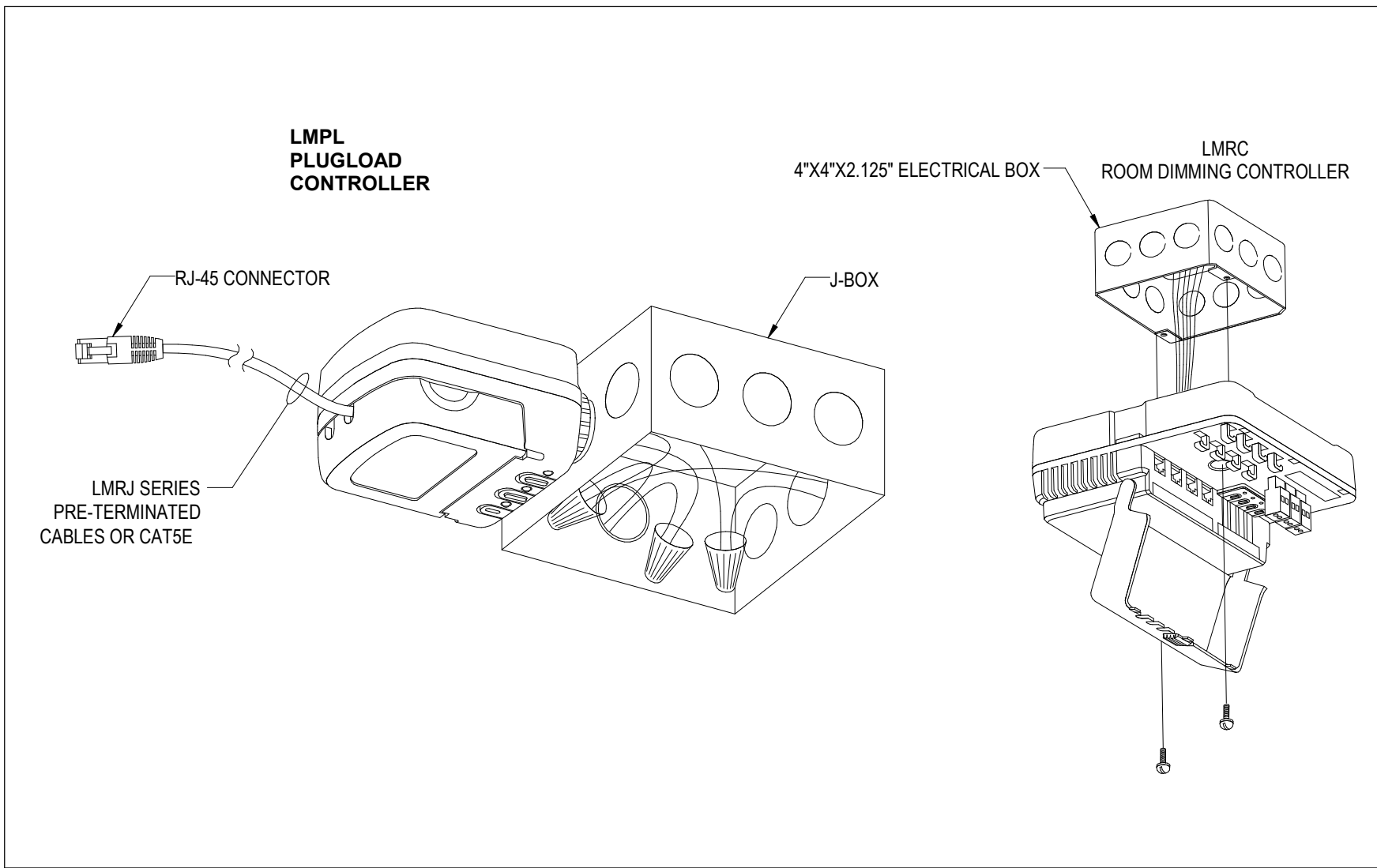
LIGHTING CONTROL WIRING DIAGRAM

WATTSTOPPER BASIS OF DESIGN



PLUG LOAD AND ROOM CONTROLLERS CONNECTION DETAIL

WATTSTOPPER BASIS OF DESIGN



PLUG LOAD AND ROOM CONTROLLERS DETAILS

WATTSTOPPER BASIS OF DESIGN

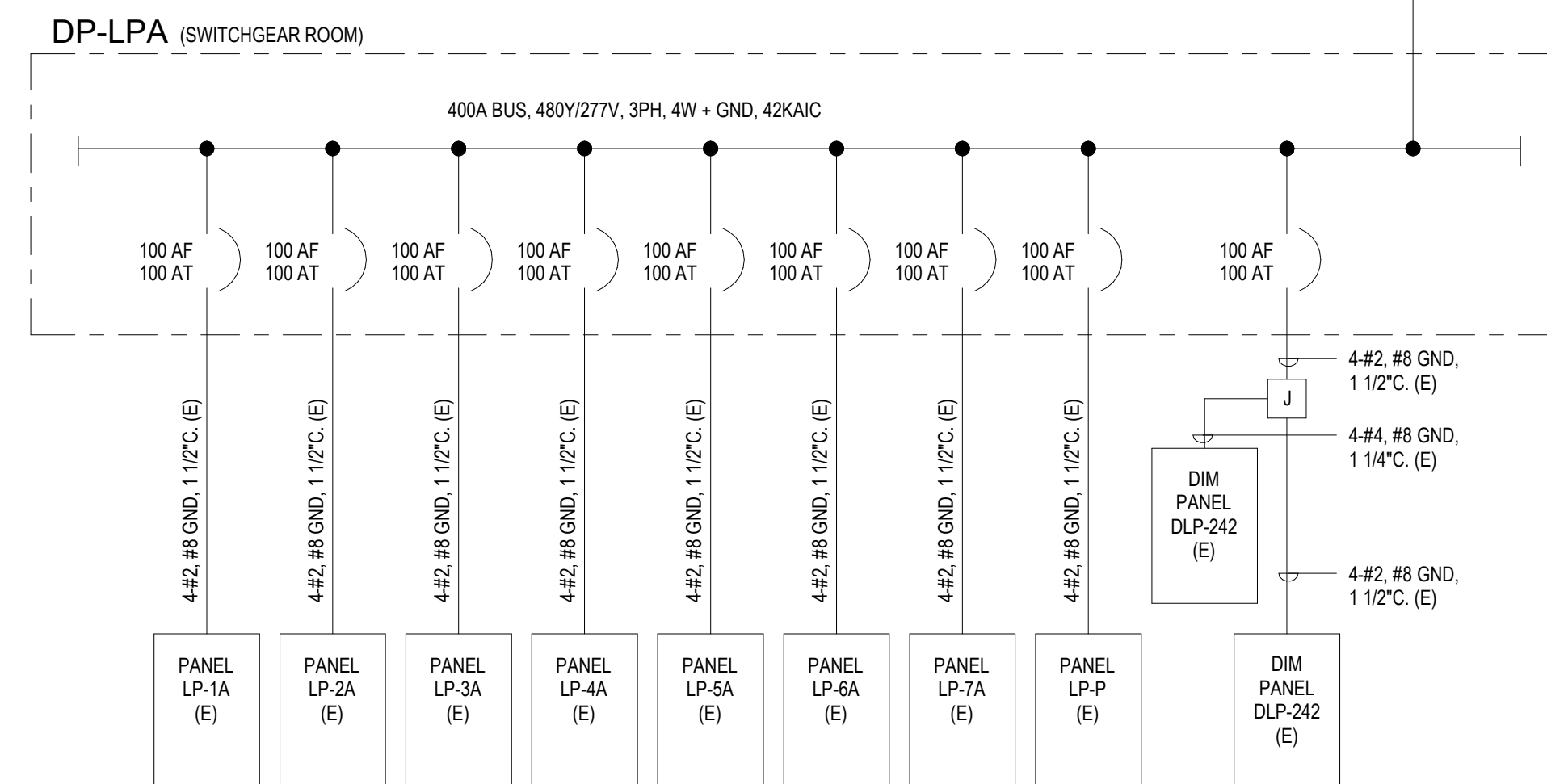
LIGHTING CONTROL SEQUENCE OF OPERATIONS

SPACE TYPE	SEQUENCE OF OPERATION - (2021 IECC)
CORRIDOR (633):	<p>CONTROLLED BY CEILING MOUNTED OCCUPANCY SENSORS AND WALL MOUNTED OVERRIDE SWITCH.</p> <p>ON: LIGHTS AUTOMATICALLY TURN FULL ON VIA OCCUPANCY SENSORS UPON OCCUPANCY DETECTION.</p> <p>PARTIAL OFF: LIGHTS DIM TO 50% AFTER 30 MINUTES (ADJUSTABLE) OF INACTIVITY.</p> <p>CEILING MOUNTED OCCUPANCY SENSORS SHALL CONTROL LIGHTS AFTER HOURS AND TURN LIGHTS FULL ON UPON OCCUPANCY DETECTION AND DIM LIGHTS TO 50% AFTER 20 MINUTES OF INACTIVITY.</p> <p>OCCUPANCY SENSORS SHALL BE OVERRIDDEN BY OVERRIDE SWITCH TO TURN THE LIGHTS OFF.</p>
DEBRIEF, OBSERVATION ROOMS,	<p>CONTROLLED BY CEILING MOUNTED VACANCY SENSORS AND WALL MOUNTED DIMMERS.</p> <p>ON: LIGHTS ARE MANUALLY TURNED ON TO 100% VIA WALL MOUNTED DIMMERS.</p> <p>MAN: DIMMER SWITCHES ALLOW LIGHTING LEVELS TO BE ADJUSTED AS REQUIRED.</p> <p>OFF: LIGHTS AUTOMATICALLY TURN OFF VIA CEILING MOUNTED VACANCY SENSORS AFTER 20 MINUTES OF INACTIVITY.</p>
AV STORAGE ROOM, BEDROOM CLOSETS	<p>CONTROLLED BY WALL MOUNTED VACANCY SENSORS.</p> <p>ON: LIGHTS ARE MANUALLY TURNED ON TO 100% VIA WALL MOUNTED VACANCY SENSORS.</p> <p>OFF: LIGHTS AUTOMATICALLY TURN OFF VIA CEILING MOUNTED OCCUPANCY SENSORS AFTER 20 MINUTES OF INACTIVITY.</p>
STORAGE ROOMS,	<p>CONTROLLED BY CEILING MOUNTED OCCUPANCY SENSORS.</p> <p>ON: LIGHTS AUTOMATICALLY TURN ON TO 100% VIA CEILING MOUNTED OCCUPANCY SENSORS.</p> <p>OFF: LIGHTS AUTOMATICALLY TURN OFF VIA CEILING MOUNTED VACANCY SENSORS AFTER 20 MINUTES OF INACTIVITY.</p> <p>OCCUPANCY SENSORS SHALL BE OVERRIDDEN BY WALL OVERRIDE SWITCH.</p>
APARTMENT (LIVING / KITCHEN), BEDROOMS, BATHROOMS	<p>CONTROLLED BY WALL MOUNTED DIMMER SWITCH.</p> <p>ON: LIGHTS ARE MANUALLY TURNED ON TO 100% VIA WALL MOUNTED DIMMER SWITCH.</p> <p>MAN: DIMMER SWITCHES ALLOW LIGHTING LEVELS TO BE ADJUSTED AS REQUIRED.</p> <p>OFF: LIGHTS ARE MANUALLY TURNED OFF TO 100% VIA WALL MOUNTED DIMMER SWITCH.</p> <p>UNDER CABINET LIGHTS ARE MANUAL ON/OFF VIA ROCKER SWITCH.</p>

**UMB SON
6TH FLOOR
APT. SIM.
RENOVATION**

**LIGHTING CONTROL
SCHEMATICS &
SEQUENCE OF
OPERATIONS**

REVISIONS		
NO	DATE	ITEM
	2/07/26	100% CD SUBMISSION
	4/08/26	BID SET



Branch Panel: RP-6A (EXISTING)																							
Location: ELEC 620A				Mounting: Surface				Voltage: 120/208 Wye				Bus Rating: 400 A				Double Lugged:				Neutral Bus:			
Supply From: 2000A Busway CB				Sections: 2				Phases: 3				MLO/MCB: M/A				Feed Thru Lug:				Ground Bus:			
Enclosure: Type 1				ISC Rating:				Wires: 4				MCB Rating: N/A				ISO Ground Bus:				Neutral Rating:			
CKT	Circuit Description	Load Classification	Feeder	Conduit	Trip	P	A		B	C	P	Trip	Conduit	Feeder	Load Classification	Circuit Description	CKT						
1	BATHROOM RECEPT 5 (E)	--	(E)	(E)	20 A	1	0.00	0.00			1	20 A	(E)	(E)	--	RECEPT - SEMINAR RM 604 (E)	2						
3	ELECTRIC WATER COOLERS (E)	--	(E)	(E)	20 A	1		0.00	0.00		1	20 A	(E)	(E)	--	ECEPT - SEMINAR RM 604 (E)	4						
5	CORRIDOR RECEPT - 602, 661 (E)	--	(E)	(E)	20 A	1				0.00	0.00	1	20 A	(E)	(E)	--	RECEPT - 605, 607 (E)	6					
7	RECEPT - 605, 606, 607 (E)	--	(E)	(E)	20 A	1	0.00	0.00			1	20 A	(E)	(E)	--	ELEC PARTITION 605 (E)	8						
9	RECEPT - 607, 609 (E)	--	(E)	(E)	20 A	1			0.00	0.00		1	20 A	(E)	(E)	--	ELEC PARTITION 605 (E)	10					
11	RECEPT - 605, 606, 607 (E)	--	(E)	(E)	20 A	1				0.00	0.00	1	20 A	(E)	(E)	--	ELEC PARTITION 605 (E)	12					
13	CORRIDOR RECEPT (2)	--	(E)	(E)	20 A	1	0.00	0.00			1	20 A	(E)	(E)	--	COFFEE MAKER 612 (E)	14						
15	PHOTOCOPIER RECEPT - 612 (E)	--	(E)	(E)	20 A	1			0.00	1.08	1	20 A	3/4"	2-#10,#10EG	Receptacle	RECEPT - 656 (N)	16						
17	RECEPT - 664 (N)	Receptacle	2-#10,#10EG	3/4"	20 A	1				1.08	0.00	1	20 A	(E)	(E)	--	RECEPT - PANTRY 612 (E)	18					
19	RECEPT - 611, 614 (E)	--	(E)	(E)	20 A	1	0.00	0.00			1	20 A	(E)	(E)	--	ELEC PARTITION 613 (E)	20						
21	RECEPT - 611, 614 (E)	--	(E)	(E)	20 A	1		0.00	0.00		1	20 A	(E)	(E)	--	ELEC PARTITION 613 (E)	22						
23	CORRIDOR RECEPT (E)	--	(E)	(E)	20 A	1				0.00	0.00	1	20 A	(E)	(E)	--	ELEC PARTITION 613 (E)	24					
25	RECEPT - CONF RM 615 (E)	--	(E)	(E)	20 A	1	0.00	0.00			1	20 A	(E)	(E)	--	ELEC PARTITION 613 (E)	26						
27	RECEPT - CONF RM 615 (E)	--	(E)	(E)	20 A	1			0.00	0.00		1	20 A	(E)	(E)	--	ELEC PARTITION 613 (E)	28					
29	RECEPT - 613, 616 (E)	--	(E)	(E)	20 A	1				0.00	0.00	1	20 A	(E)	(E)	--	ELEC PARTITION 613 (E)	30					
31	RECEPT - 617, 618 (E)	--	(E)	(E)	20 A	1	0.00	0.00			1	20 A	(E)	(E)	--	RECEPT - 620, 621 (E)	32						
33	RECEPT - 617, 618 (E)	--	(E)	(E)	20 A	1		0.00	0.00		1	20 A	(E)	(E)	--	RECEPT - 620, 621 (E)	34						
35	RECEPT - 619 (E)	--	(E)	(E)	20 A	1				0.00	0.00	1	20 A	(E)	(E)	--	PANTRY MICROWAVE, REFRIGRE (E)	36					
37	ELEC PARTITION 619 (E)	--	(E)	(E)	20 A	1	0.00	0.00			1	20 A	(E)	(E)	--	RECEPT - 610 (E)	38						
39	ELEC PARTITION 619 (E)	--	(E)	(E)	20 A	1		0.00	1.12		1	20 A	3/4"	2-#10,#10EG	Lighting; Receptacle	GFCI RECEPT - 639, 656 (N)	40						
41	ELEC PARTITION 619 (E)	--	(E)	(E)	20 A	1				0.00	1.00	1	20 A	3/4"	2-#10,#10EG	Receptacle	MICROWAVE - 639 (N)	42					
43	RECEPT - 654, 656 (E)	--	(E)	(E)	20 A	1	0.00	1.00			1	20 A	3/4"	2-#10,#10EG	Receptacle	MICROWAVE - 656 (N)	44						
45	RECEPT - 654, 655 (E)	--	(E)	(E)	20 A	1		0.00	0.90		1	20 A	3/4"	2-#10,#10EG	Receptacle	RECEPT - 633, 662, 659 (N)	46						
47	REFRIGERATOR - 639, 656 (N)	Receptacle	2-#10,#10EG	3/4"	20 A	1			0.72	0.72	1	20 A	3/4"	2-#10,#10EG	Receptacle	REFRIGERATOR - 664, 665 (N)	48						
49	GFCI RECEPT - 664, 665 (N)	Lighting; Receptacle	2-#10,#10EG	3/4"	20 A	1	1.12	0.00			1	20 A	(E)	(E)	--	RECEPT - 650 (E)	50						
51	MICROWAVE - 664 (N)	Receptacle	2-#10,#10EG	3/4"	20 A	1		1.00	1.08		1	20 A	3/4"	2-#10,#10EG	Receptacle	RECEPT - 652, 653 (N)	52						
53	TASK LIGHTS (E)	--	(E)	(E)	20 A	1				0.00	1.08	1	20 A	3/4"	2-#10,#10EG	Receptacle	RECEPT - 653, 659, 658 (N)	54					
55	FTB 6-1 (E)	--	(E)	(E)	20 A	1	0.00	0.00			1	20 A	(E)	(E)	--	FTB 6-2 (E)	56						
57	FTB 6-3 (E)	--	(E)	(E)	20 A	1		0.00	0.00		1	20 A	(E)	(E)	--	FTB 6-5 (E)	58						
59	FTB 6-7(E)	--	(E)	(E)	20 A	1				0.00	0.00	1	20 A	(E)	(E)	--	FTB 6-9 (E)	60					
61	FTB 6-6 (E)	--	(E)	(E)	20 A	1	0.00	0.00			1	20 A	(E)	(E)	--	FTB 6-10 (E)	62						
63	FTB-656 (N)	HVAC	2-#10,#10EG	3/4"	20 A	1		0.35	0.00		1	20 A	(E)	(E)	--	FTB 6-12 (E)	64						
65	FTB-664(N)	HVAC	2-#10,#10EG	3/4"	20 A	1				0.35	1.00	1	20 A	3/4"	2-#10,#10EG	Receptacle	MICROWAVE - 665 (N)	66					
67	FTB 6-15 (E)	--	(E)	(E)	20 A	1	0.00	0.72			1	20 A	3/4"	2-#10,#10EG	Receptacle	RECEPT - 639 (N)	68						
69	RECEPT - 665 (N)	Receptacle	2-#10,#10EG	3/4"	20 A	1		0.90	0.00		1	20 A	(E)	(E)	--	FTB 6-18 (E)	70						
71	DOOR OPENER (E)	--	(E)	(E)	20 A	1				0.00	0.00	1	20 A	(E)	(E)	--	UH-5 (E)	72					
73	BAS COMPONENTS BY DIV. 17 (E)	--	(E)	(E)	20 A	1	0.00	0.00			1	20 A	(E)	(E)	--	CCTV RECEPT (E)	74						
75	AUDIOVISUAL TECHNOLOGY (E)	--	(E)	(E)	20 A	1		0.00	0.00		1	20 A	(E)	(E)	--	HOT WATER HEATER (E)	76						
77	RECEPT - 647, 657, 663 (N)	Receptacle	2-#10,#10EG	3/4"	20 A	1				1.08	1.08	1	20 A	3/4"	2-#10,#10EG	Receptacle	RECEPT - 666, 662 (N)	78					
79	RECEPT - AV RACK 661 (N)	Receptacle	2-#10,#10EG	3/4"	20 A	1	1.00	1.00			1	20 A	3/4"	2-#10,#10EG	Receptacle	RECEPT - AV RACK 661 (N)	80						
81	FLAT PANEL RECEPT - 652, 653, 658 (N)	Receptacle	2-#10,#10EG	3/4"	20 A	1		0.90	0.36		1	20 A	3/4"	2-#10,#10EG	Receptacle	RECEPT - 659 (N)	82						
83	GFCI RECEPT - 634.4, 642.4 (N)	Receptacle	2-#10,#10EG	3/4"	20 A	1				0.41	--	1	--	--	--		Space	84					
Total Load:							4.8 kVA	7.7 kVA	8.5 kVA														
Total Amps:							40 A	68 A	75 A														
Load Classification				Connected Load (VA)			Demand Factor			Estimated Demand			Panel Totals										
HVAC				696 VA			100.00%			696 VA			Total Conn. Load: 21.0 kVA										
Lighting				84 VA			125.00%			106 VA			Total Est. Demand: 15.9 kVA										
Receptacle				20270 VA			74.67%			15135 VA			Total Conn. Current: 58 A										
													Total Est. Demand Current: 44 A										
Notes:																							
1. New circuit breakers shall match existing frame and AIC rating.																							

Branch Panel: LP-6A (EXISTING)

Location: ELEC 620A				Mounting: Surface				Voltage: 480/277 Wye				Bus Rating: 100 A				Double Lugged:				Neutral Bus:			
Supply From: DP-LPA				Sections: 1				Phases: 3				MLO/MCB: MLO				Feed Thru Lug:				Ground Bus:			
Enclosure: Type 1				ISC Rating:				Wires: 4				MCB Rating: N/A				ISO Ground Bus:				Neutral Rating:			
CKT	Circuit Description	Load Classification	Feeder	Conduit	Trip	P	A		B		C		P	Trip	Conduit	Feeder	Load Classification	Circuit Description	CKT				
1	LTG RM 610, 612, 613,615-621(E)	--	(E)	(E)	20 A	1	0.00	0.00					1	20 A	(E)	(E)	--	LTG CORR. 6C1, 6C2, LOBBY 600 (E)	2				
3	LTG RM 604-611, 614 (E)	--	(E)	(E)	20 A	1			0.00	0.94			1	20 A	3/4"	2-#12,#12EG	Lighting	LTG RM 652, 653, 633, 647, 661,657, 659, 656 (N)	4				
5	LTG RM 6M1, 6W1, 601, 652, 653, 660 (E)	--	(E)	(E)	20 A	1					0.00	0.87	1	20 A	3/4"	2-#12,#12EG	Lighting	LTG RM 659, 658, 663, 662, 666, 664, 665 (N)	6				
7	Spare	--	--	--	20 A	1	0.00	0.00					1	20 A	--	--	--	Spare	8				
9	Spare	--	--	--	20 A	1			0.00	0.00			1	20 A	--	--	--	Spare	10				
11	Spare	--	--	--	20 A	1					0.00	0.00	1	20 A	--	--	--	Spare	12				
13	Spare	--	--	--	20 A	1	0.00	0.00					1	20 A	--	--	--	Spare	14				
15	Space	--	--	--	--	1			--	--			1	--	--	--	--	Space	16				
17	Space	--	--	--	--	1					--	--	1	--	--	--	--	Space	18				
19	Space	--	--	--	--	1	--	--					1	--	--	--	--	Space	20				
21	Space	--	--	--	--	1			--	--			1	--	--	--	--	Space	22				
23	Space	--	--	--	--	1					--	--	1	--	--	--	--	Space	24				
25	Space	--	--	--	--	1	--	--					1	--	--	--	--	Space	26				
27	Space	--	--	--	--	1			--	--			1	--	--	--	--	Space	28				
29	Space	--	--	--	--	1					--	--	1	--	--	--	--	Space	30				
Total Load:							0.0 kVA	0.9 kVA	0.9 kVA														
Total Amps:							0 A	4 A	4 A														
Load Classification				Connected Load (VA)		Demand Factor		Estimated Demand		Panel Totals													
Lighting				1817 VA		125.00%		2271 VA															
										Total Conn. Load: 1.8 kVA													
										Total Est. Demand: 2.3 kVA													
										Total Conn. Current: 2 A													
										Total Est. Demand Current: 3 A													
Notes:																							

PANEL KEY

	LP-6A



ADMINISTRATION & FINANCE
DESIGN AND CONSTRUCTION
OFFICE OF FACILITIES MANAGEMENT
620 W. LEXINGTON STREET, 6TH FLOOR
BALTIMORE, MARYLAND 21201
PHONE NO. (410) 706-7710
FAX NO. (410) 706-B517



PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND THAT I AM A
DULY LICENSED PROFESSIONAL ENGINEER UNDER
THE LAWS OF THE STATE OF MARYLAND,
LICENSE NO. 18155
EXPIRATION DATE: 2/14/2027

REGISTRATION / STAMP



PROJECT TITLE :
**UMB SON
6TH FLOOR
APT. SIM.
RENOVATION**

UMB BUILDING NO. :	SON - 0833
UMB Project NO. :	26-312
A/E PROJECT NO. :	25-128
CAD FILE NO. :	
DATE :	

SHEET TITLE :
PANEL SCHEDULES

REVISIONS		
NO	DATE	ITEM
	2/07/26	100% CD SUBMISSION
	4/08/26	BID SET

SHEET NO.
E-503