

1040 Hull Street - Suite # 100 Baltimore, MD 21230 T 410.347.8500 F 410.347.8519

ADDENDUM

Addendum #01

26 August 2025

RE: Renovate 4E NMAL Office Suite

Smithsonian Facilities Project No. 2466904 Ayers/Saint/Gross Project No. 3000738

This Addendum forms part of the Contract Documents and modifies the original **FINAL CONSTRUCTION DOCS** dated **April 18, 2025**.

Drawings are issued with clouds and triangles. The triangles are keyed to the revision section of each drawing title block.

Changes reflected in this Addendum #01 are in general:

 Updates to millwork scope at Directors office, updates to DFH finishes, added lighting controls and removed references to new electrical panels

ATTACHMENTS:

Full size drawings:

ARCHITECTURE

A-101FP - FLOOR PLAN - PARTIAL LEVEL 4 - NORTH

A-406EP - INTERIOR ELEVATIONS

A-504DT - MILLWORK DETAILS

A-902SH - FINISH AND EQUIPMENT SCHEDULE & DETAILS

A-903SH - DOOR SCHEDULE & DETAILS

ELECTRICAL

E-101LP - LIGHTING PLAN - PARTIAL LEVEL 4 - NORTH - NEW WORK

E-501DT - ELECTRICAL DETAILS

E-601SH - ELECTRICAL SCHEDULES

E-602SH - PANELBOARD SCHEDULES

E-603SH - PANELBOARD SCHEDULES

E-902SS - ELECTIRCAL SPECIFICATIONS

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CHANGES TO THE DRAWINGS

ARCHITECTURE

A-101FP - FLOOR PLAN PARTIAL LEVEL 4 - NORTH

- · Removed plan view of shelf in Director Office
- Removed elevation tag at shelf in Director Office

A-406EP - INTERIOR ELEVATIONS

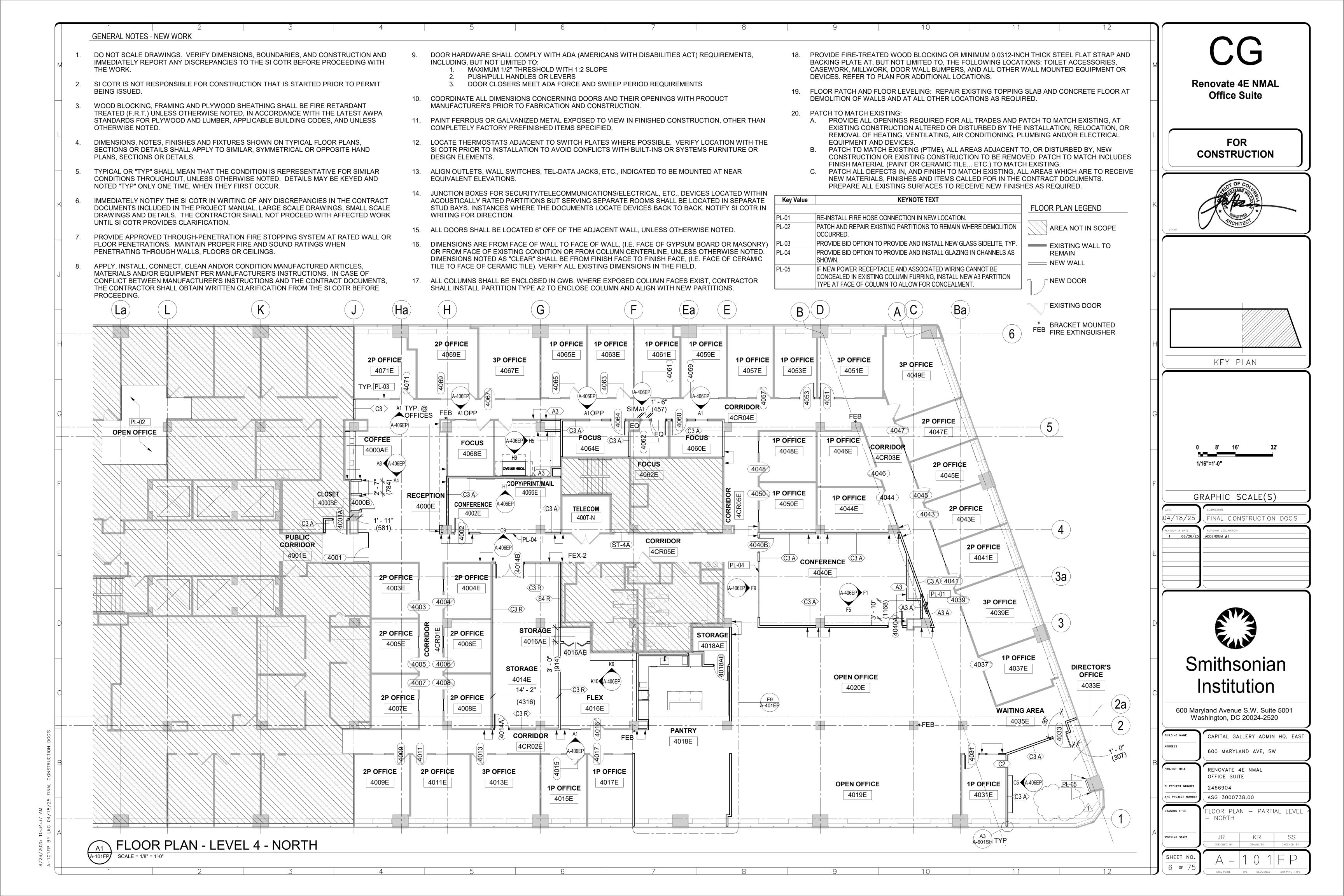
- Removed elevation of shelf in Director Office
- A-504DT MILLWORK DETAILS
 - Removed dimension at J5 section detail.
- A-902SH FINISH AND EQUIPMENT SCHEDULE & DETAILS
 - Added remark to PNT-1
- A-903SH DOOR SCHEDULE & DETAILS
 - Added door and frame finishes

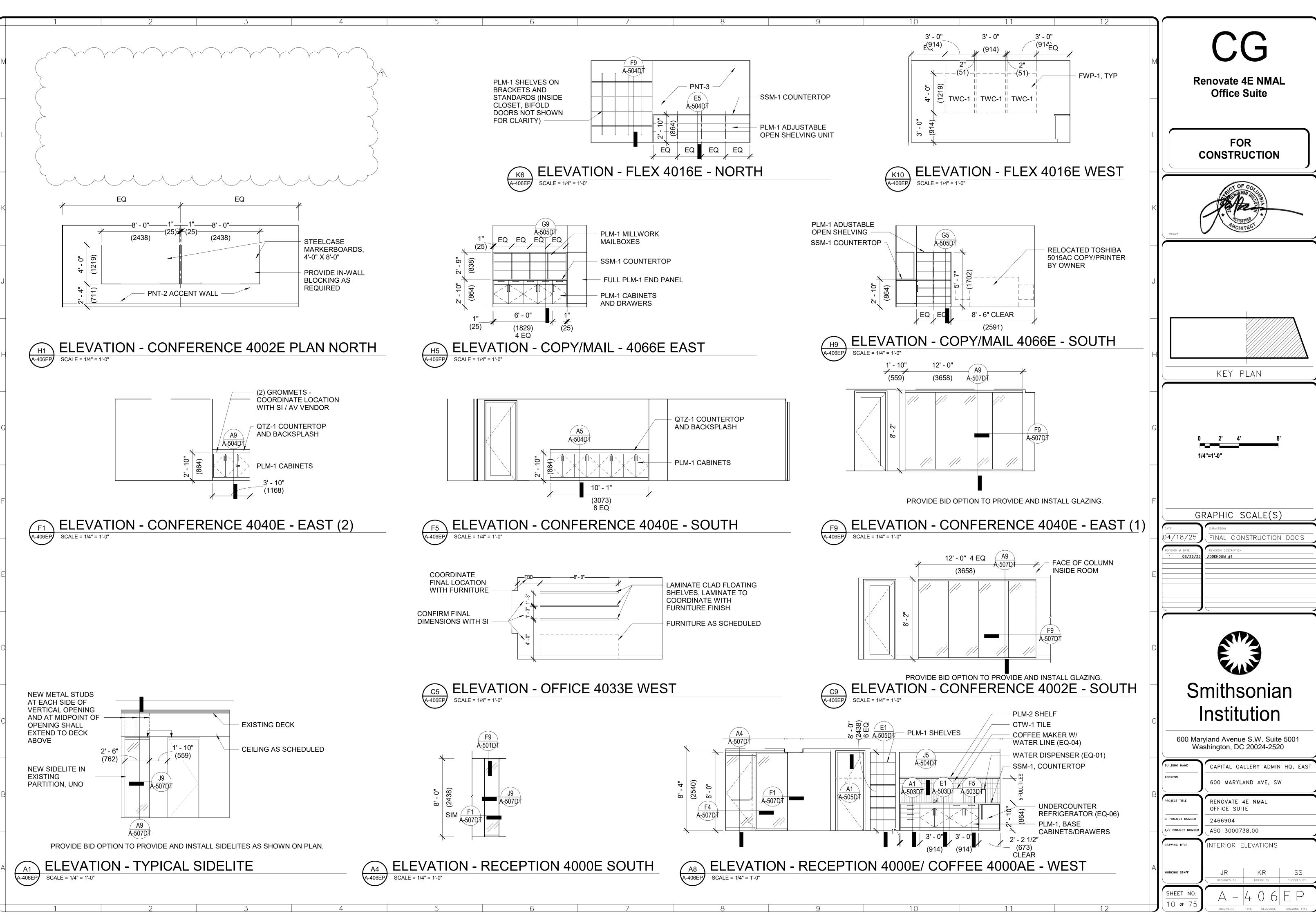
ELECTRICAL

- E-101LP LIGHTING PLAN PARTIAL LEVEL 4 NORTH NEW WORK
 - Updated lighting controls in Storage 4014E to be timer switches
- E-501DT ELECTRICAL DETAILS
 - Removed controlled receptacle from Detail 4.
- E-601SH ELECTRICAL SCHEDULES
 - Added Lighting Control Intent Schedule and associate notes.
- E-602SH PANELBOARD SCHEDULES
 - Removed note about new panels
- E-603SH PANELBOARD SCHEDULES
 - Removed note about new panels
- E-902SS ELECTIRCAL SPECIFICATIONS
 - Removed specification language on bonding jumpers.

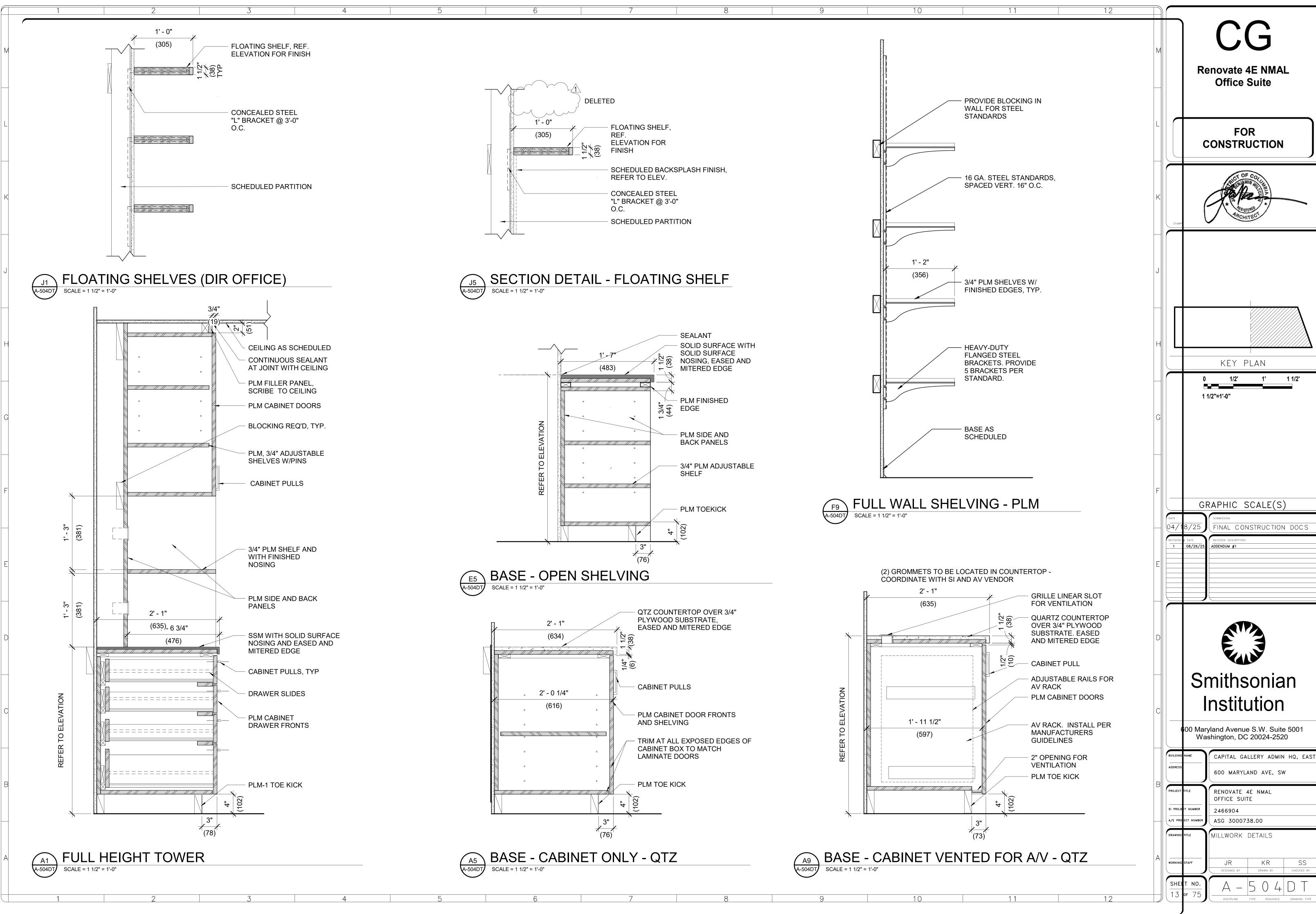
End Addendum 01

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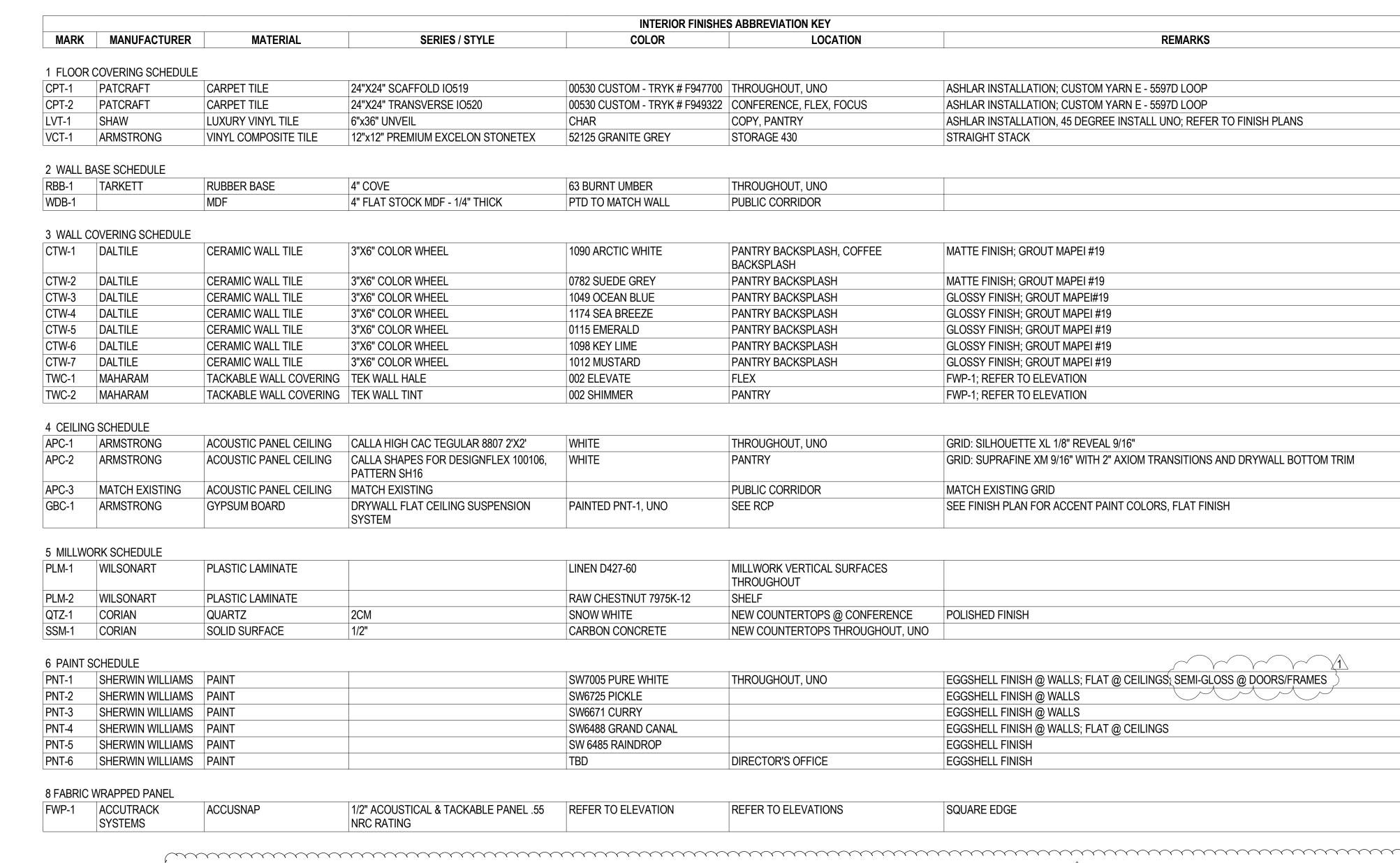




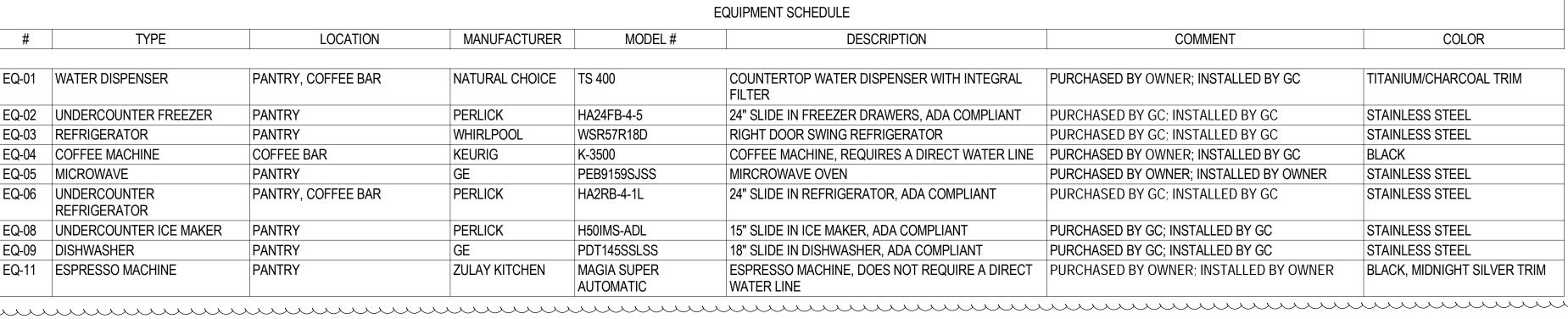
8/26/2025 10:34:40 AM A-406EP BY LKG 04/18/25 FINAL CONSTRUCTION DOCS

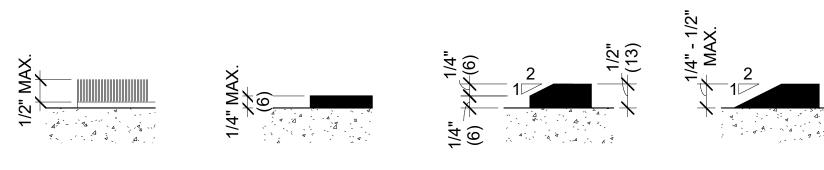


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	EQUIPMENT SCHEDULE												
#	TYPE	LOCATION	MANUFACTURER	MODEL#	DESCRIPTION	COMMENT	COLOR						
EQ-01	WATER DISPENSER	PANTRY, COFFEE BAR	NATURAL CHOICE	TS 400	COUNTERTOP WATER DISPENSER WITH INTEGRAL FILTER	PURCHASED BY OWNER; INSTALLED BY GC	TITANIUM/CHARCOAL TRIM						
EQ-02	UNDERCOUNTER FREEZER	PANTRY	PERLICK	HA24FB-4-5	24" SLIDE IN FREEZER DRAWERS, ADA COMPLIANT	PURCHASED BY GC; INSTALLED BY GC	STAINLESS STEEL						
EQ-03	REFRIGERATOR	PANTRY	WHIRLPOOL	WSR57R18D	RIGHT DOOR SWING REFRIGERATOR	PURCHASED BY GC; INSTALLED BY GC	STAINLESS STEEL						
EQ-04	COFFEE MACHINE	COFFEE BAR	KEURIG	K-3500	COFFEE MACHINE, REQUIRES A DIRECT WATER LINE	PURCHASED BY OWNER; INSTALLED BY GC	BLACK						
EQ-05	MICROWAVE	PANTRY	GE	PEB9159SJSS	MIRCROWAVE OVEN	PURCHASED BY OWNER; INSTALLED BY OWNER	STAINLESS STEEL						
EQ-06	UNDERCOUNTER REFRIGERATOR	PANTRY, COFFEE BAR	PERLICK	HA2RB-4-1L	24" SLIDE IN REFRIGERATOR, ADA COMPLIANT	PURCHASED BY GC; INSTALLED BY GC	STAINLESS STEEL						
EQ-08	UNDERCOUNTER ICE MAKER	PANTRY	PERLICK	H50IMS-ADL	15" SLIDE IN ICE MAKER, ADA COMPLIANT	PURCHASED BY GC; INSTALLED BY GC	STAINLESS STEEL						
EQ-09	DISHWASHER	PANTRY	GE	PDT145SSLSS	18" SLIDE IN DISHWASHER, ADA COMPLIANT	PURCHASED BY GC; INSTALLED BY GC	STAINLESS STEEL						
EQ-11	ESPRESSO MACHINE	PANTRY	ZULAY KITCHEN	MAGIA SUPER AUTOMATIC	ESPRESSO MACHINE, DOES NOT REQUIRE A DIRECT WATER LINE	PURCHASED BY OWNER; INSTALLED BY OWNER	BLACK, MIDNIGHT SILVER TRI						





ACCESSIBLE CARPET PILE ACCESSIBLE MAX. VERTICAL HEIGHT CHANGE IN LEVEL

ACCESSIBLE MAX. BEVELED CHANGE IN LEVEL

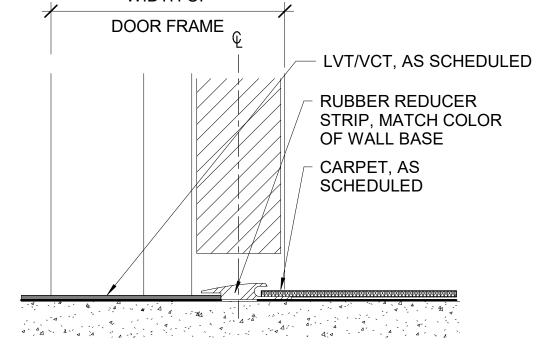
1. VERTICAL LEVEL CHANGES OF 1/4" MAXIMUM ARE PERMITTED WITHOUT EDGE TREATMENT.



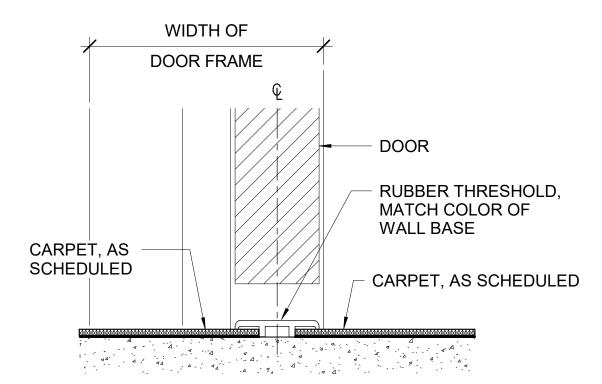
METAL DIVIDER CARPET, AS SCHEDULED TRANSITION - LVT/VCT TO CARPET SCALE = 6" = 1'-0" WIDTH OF DOOR FRAME LVT/VCT, AS SCHEDULED

LVT/VCT, AS

SCHEDULED









RENOVATE 4E NMAL OFFICE SUITE 2466904 ASG 3000738.00 INISH & EQUIPMENT SCHEDUI & DETAILS KR DRAWN BY

CAPITAL GALLERY ADMIN HQ, EAST

Renovate 4E NMAL

Office Suite

FOR

CONSTRUCTION

KEY PLAN

0 1" 2" 3" 4"

GRAPHIC SCALE(S)

04/18/25 | Final construction docs

Smithsonian

Institution

600 Maryland Avenue S.W. Suite 5001 Washington, DC 20024-2520

600 MARYLAND AVE, SW

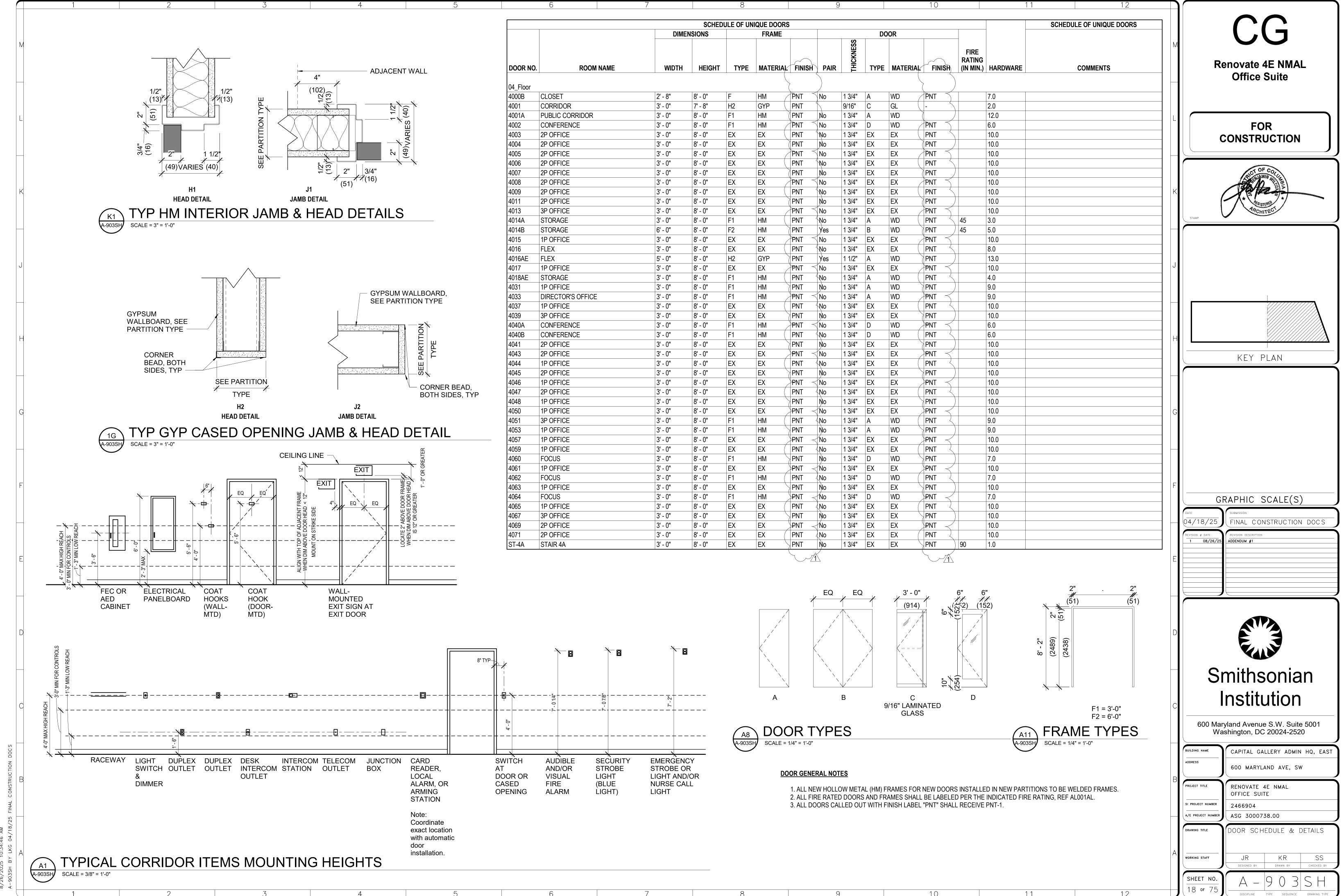
ADDENDUM #1

6"=1'-0"

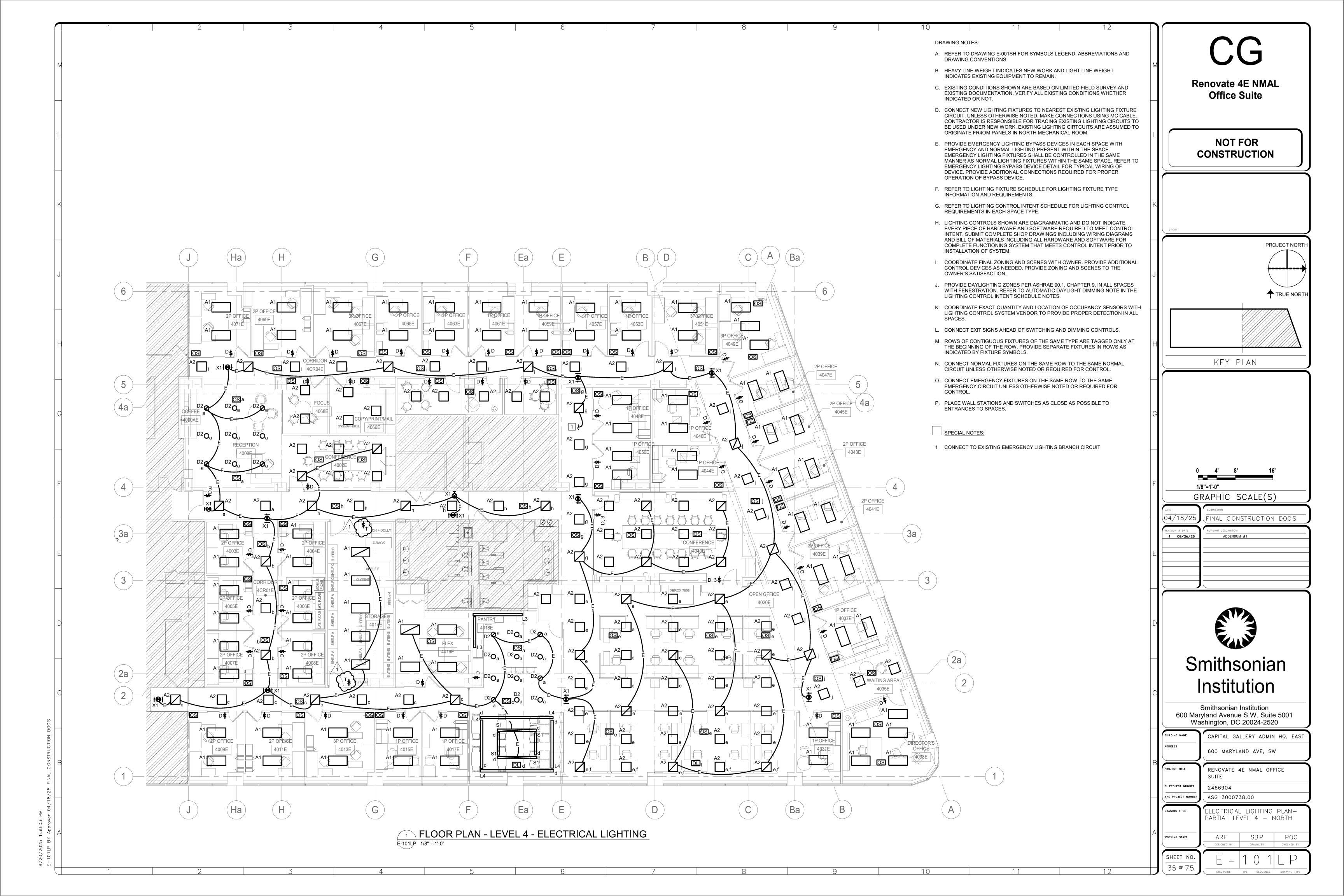
08/26/25

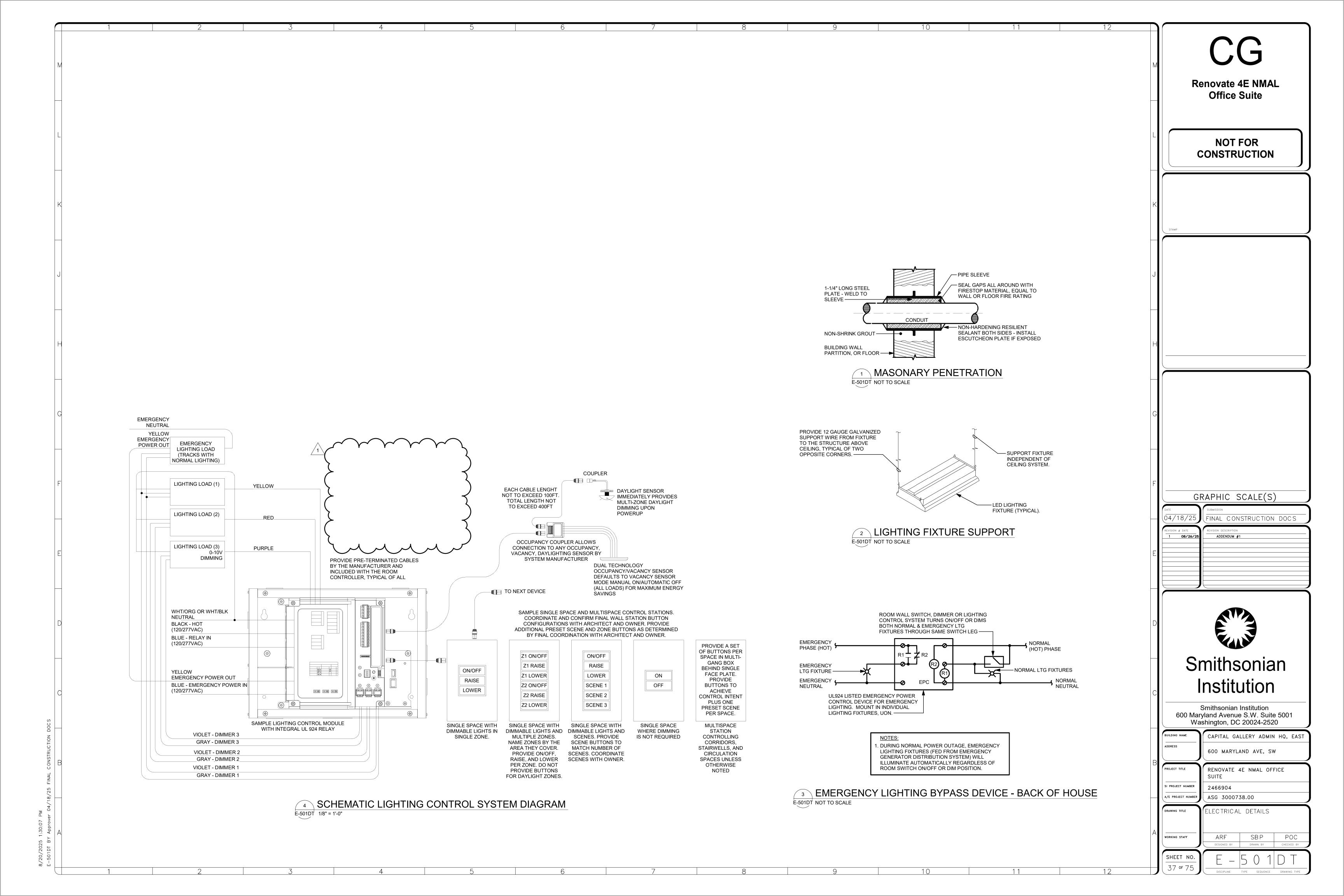
SI PROJECT NUMBER

A/E PROJECT NUMBER



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	LIGHTING FIXTURE SCHEDULE												
FIXTURE TYPE	MOUNTING	MANUFACTURERS	CATALOG NUMBER	LAMPS	VOLTAGE	DESCRIPTION							
A1	CEILING RECESSED	LITHONIA COOPER LIGHTING HUBBELL LIGHTING	2RTL440LGZ10-LP835	LED (INCLUDED)	277	2'X4' LED RECESSED FIXTURE, COLD ROLLED STEEL HOUSING, ACRYLIC PRISMATIC REFLECTOR, WHITE POLYESTER POWDER PAINT FINISH, DRIVER 0-10V DIMMING TO 10%, 3500K CCT, 82 CRI, 4840 LUMENS, 39.4W.							
A2	CEILING RECESSED	LITHONIA COOPER LIGHTING HUBBELL LIGHTING	2RTL240LGZ10-LP835	LED (INCLUDED)	277	2'X2' LED RECESSED FIXTURE, COLD ROLLED STEEL HOUSING, ACRYLIC PRISMATIC REFLECTOR, WHITE POLYESTER POWDER PAINT FINISH, DRIVER 0-10V DIMMING TO 10%, 3500K CCT, 82 CRI, 4840 LUMENS, 41.4W.							
D2	CEILING RECESSED	PRESCOLITE COOPER LIGHTING LITHONIA	LTR-4RD-H-SL-10L-DM01-LTR-ARD-T-SL-35K-8- WD	LED (INCLUDED)	277	4" ROUND LED DOWNLIGHT, WIDE DISTRIBUTION, GALVANIZED STEEL HOUSING, WHITE MATTE DIFFUSE FINISH, DRIVER 0-10V DIMMING TO >1%, 3500K CCT, 80 CRI, 1062 LUMENS, 12W.							
L3	CEILING RECESSED	LITECONTROL COOPER LIGHTING LITHONIA	4L-SS-D04-ASYM-C1-35K-D030-D01-1C-UNV	LED (INCLUDED)	277	RECESSED LINEAR LED LIGHTING FIXTURE, EXTRUDED ALUMINUM HOUSING, MATTE WHITE FINISH, ASSYMETRIC DIFFUSE LENS, DRIVER 0-10V DIMMING TO 1%. PROVIDE MITERED CORNERS TO CREATE SEAMLESS RECTANGULAR SHAPE. LENGTHS AS INDICATED ON DRAWINGS. 3500K CCT, 90 CRI, 300 LUMENS PER FOOT, 2.5W PER FOOT.							
L4	CEILING RECESSED	LITECONTROL COOPER LIGHTING LITHONIA	4L-SS-D04-SOF-C1-35K-D030-D01-1C-UNV	LED (INCLUDED)	277	2" APERTURE RECESSED LINEAR LED LIGHTING FIXTURE, EXTRUDED ALUMINUM HOUSING, MATTE WHITE FINISH, SOFT DIFFUSE LENS, DRIVER 0-10V DIMMING TO 1%. PROVIDE MITERED CORNERS TO CREATE SEAMLESS RECTANGULAR SHAPE. LENGTHS AS INDICATED ON DRAWINGS. 3500K CCT, 90 CRI, 300 LUMENS PER FOOT, 2.5W PER FOOT.							
S1	CEILING RECESSED	INTERLUX COLUMBIA LITHONIA	WG-20LDL-SM-GT9T-S-H-935-D010-OD-W-C4	LED (INCLUDED)	277	GRID CLIP RECESSED LINEAR LED LIGHTING FIXTURE, WHITE FINISH, SATIN OPAL DIFFUSER, DRIVER 0-10V DIMMING TO 10%. LENGTHS AS INDICATED ON DRAWINGS. 3500K CCT, 90 CRI, 796 LUMENS PER FOOT, 10W PER FOOT.							
X1	CEILING OR WALL	LITHONIA COOPER LIGHTING HUBBELL LIGHTING LIGHTALARMS	EDG1-GMR	LED (INCLUDED)	277	EDGE LIT EXIT SIGN, GREEN LETTERS ON MIRRORED BACKGROUND, EXTRUDED BRUSHED ALUMINUM FINISH, UL DAMP LOCATION LISTED. PROVIDE MOUNTING AND NUMBER OF FACES AND CHEVRONS AS INDICATED ON PLANS. AC VOLTAGE ONLY. WALL MOUNTED EXIT SIGNS ABOVE DOORS SHALL BE 6" ABOVE TOP OF DOOR FRAME, MEASURED FROM BOTTOM OF EXIT SIGN, UNLESS OTHERWISE NOTED. 4.5W							

EQUIPMENT CIRCUIT SCHEDULE																		
	LOAD LOCAL DISCONNECT		ECT			CONTR	ROLLER		CIRCUIT									
DESIGNATION	НР	KVA	AMPS	VOLTAGE	PH	AMPS	DEVICE	NEMA / UL	DISCO	NNECT	TYPE	NEMA	ALIVII IADIES	NEMA / UL	WIRE			REMARKS
	ПР	NVA	AIVIFS			AIVIPS	DEVICE	ENCLOSURE	AMPS	DEVICE	11175	SIZE	AUXILIARIES	ENCLOSURE	WIRE	GND	C"	
WSHP-1	1/3	1.3	4.7	277	1	-	BY DIV 23	-	-	-	BY DIV 23	-	-	-	2#12	#12	3/4	
WSHP-2	1/3	1.9	6.8	277	1	-	BY DIV 23	-	-	-	BY DIV 23	-	-	-	2#12	#12	3/4	
			$\overline{}$			$\overline{}$	- ($\overline{}$						$\overline{}$				

		LIGHTING CONTROL INTENT SCHEDULE													
7	SPACE TYPE	MANUAL CONTROL	MANUAL ON	AUTOMATIC PARTIAL ON		SCHEDULED FULL ON	BILEVEL DIMMING	CONTINUOUS DIMMING	AUTOMATIC DAYLIGHT DIMMING	AUTOMATIC PARTIAL OFF	AUTOMATIC FULL OFF	SCHEDULED FULL OFF	REMARKS	-	
	ELECTRICAL / MECHANICAL / TELECOM / SECURITY / UTILITY ROOM	×	Х										ON / OFF TOGGLE SWITCH.	-	
\ \	INDIVIDUAL OFFICE / ENCLOSED MULTI-OCCUPANT OFFICE / MEETING / CONFERENCE / MULTIPURPOSE / CLASSROOM / LOUNGE / BREAK ROOM / LOCKER / STORAGE / TRASH RECYCLE / JANITOR	Х	Х					Х	Х		Х		PROVIDE SEPARATE ZONE FOR GROUP OF LIGHTS ADJACENT TO PROJECTION WALLS.		
	OPEN OFFICE	X	Х					X	X		Х	X	OCCUPANCY SENSORS SHALL MAINTAIN LIGHTS ON AND TURN LIGHTS OFF AFTER HOURS.	-	
	LOBBY / CORRIDOR / VESTIBULE / STAIRWELL	х			Х			х	х	х	Х	х	LIGHTS SHALL BE ON AT 50% DURING OPERATING HOURS. OCCUPANCY SENSORS SHALL MAINTAIN LIGHTS ON AND TURN LIGHTS OFF AFTER HOURS. LOCATE WALL STATION IN SECURE SPACE ONLY ACCESSIBLE TO AUTHORIZED PERSONNEL.	-	

LIGHTING FIXTURE SCHEDULE NOTES:

- 1. LISTED CATALOG NUMBER IS FOR FIRST NAMED MANUFACTURER. FIRST NAMED MANUFACTURERS AND LISTED FIXTURES CONSTITUTE THE BASIS OF DESIGN.
- 2. LISTING OF ALTERNATE MANUFACTURER'S NAMES DOES NOT IMPLY ACCEPTANCE OF THEIR STANDARD PRODUCTS. PROVIDE BASIS OF DESIGN FIXTURES OR FIXTURES BY LISTED MANUFACTURERS THAT ARE EQUAL TO OR BETTER THAN THE BASIS OF DESIGN IN ALL ASPECTS.
- 3. SUBSTITUTION OF FIXTURES PROVIDED BY MANUFACTURERS NOT LISTED IN THE SCHEDULE DUE TO VENDOR AGREEMENTS WILL BE REVIEWED UNLESS OTHERWISE NOTED. PROVIDE FIXTURES THAT ARE EQUAL TO OR BETTER THAN THE BASIS OF DESIGN IN ALL ASPECTS. FIXTURES NOT COMPLYING WITH THIS REQUIREMENT WILL BE REJECTED.
- 4. LIGHTING FIXTURE SUBMITTALS SHALL INCLUDE, AS A MINIMUM: -FIXTURE TYPE, DIMENSIONS, & FINISH. -DRIVER DATA FOR EACH FIXTURE TYPE & FIXTURE VOLTAGE.
- 5. VERIFY ALL LIGHTING FIXTURE VOLTAGES, CEILING TRIM, AND OTHER ACCESSORIES FOR COMPATIBILITY WITH CIRCUITS, CEILING TYPES AND OTHER CONDITIONS PRESENT WHERE LIGHTING FIXTURES WILL BE INSTALLED PRIOR TO PURCHASE AND INSTALLATION OF LIGHTING FIXTURES.
- 6. COORDINATE LIGHTING CONTROL SYSTEM SHOP DRAWINGS WITH LIGHTING FIXTURE SHOP DRAWINGS. VERIFY COMPATIBILITY WITH LED DIMMING DRIVERS WITH LIGHTING CONTROL EQUIPMENT PRIOR TO PURCHASE AND INSTALLATION.
- 7. MOUNTING HEIGHTS SHOWN ARE TO BOTTOM OF FIXTURES.
- 8. PROVIDE ACCESSORIES AS NEEDED FOR PROPER INSTALLATION.
- 9. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIXTURES.

EQUIPMENT CIRCUIT SCHEDULE NOTES:

- 1. PROVIDE MOTOR CIRCUIT PROTECTORS AS REQUIRED BY THE EQUIPMENT MANUFACTURER.
- 2. SIZE AND PROVIDE FUSES FOR FUSED SAFETY SWITCHES AS RECOMMENDED AND REQUIRED BY MANUFACTURER OF EQUIPMENT SERVED.

AUXILIARIES:

- A. 480-120V CONTROL POWER TRANSFORMER.
- B. RED "ON" INDICATING LIGHT.
- C. GREEN "OFF" INDICATING LIGHT.
- D. HAND-OFF-AUTOMATIC SELECTOR SWITCH.
- E. START-STOP PUSH BUTTON.

COME FROM THE BAS.

F. POWER FACTOR CORRECTION CAPACITORS.

LIGHTING CONTROL INTENT SCHEDULE NOTES:

- 1. MANUAL CONTROL: THE SPACE IS REQUIRED TO HAVE WALL STATION WITHIN IT UNLESS OTHERWISE NOTED.
- 2. MANUAL ON: THE USER IS REQUIRED TO TURN THE LIGHTING FIXTURES ON. THE OCCUPANCY SENSORS IN THE SPACE SHALL NOT TURN THE LIGHTING FIXTURES ON AUTOMATICALLY.
- AUTOMATIC PARTIAL ON: THE OCCUPANCY SENSORS IN THE SPACE SHALL TURN \prec THE LIGHTING FIXTURES TO 50% OUTPUT. THE USER MAY TURN THE LIGHTING
- FIXTURES TO FULL ON. 4. AUTOMATIC FULL ON: THE OCCUPANCY SENSORS IN THE SPACE SHALL TURN THE
- LIGHTING FIXTURES TO 100% OUTPUT WHEN SOMEONE ENTERS THE SPACE. SCHEDULED FULL ON: THE LIGHTING FIXTURES IN THE SPACE SHALL TURN ON AS SCHEDULED BEFORE THE BUILDING OPENS TO THE PUBLIC. TIME SIGNAL SHALL
- 6. BILEVEL DIMMING: THE CONTROLS SHALL BE CAPABLE OF SETTING THE LIGHTING
- FIXTURES TO 0%, 50% OR 100% OUTPUT.
- CONTINUOUS DIMMING: THE CONTROLS SHALL BE CAPABLE OF DIMMING THE LIGHTING FIXTURES IN THE SPACE SMOOTHLY FROM THE LOWER RANGE ALLOWED BY THEIR DRIVERS TO 100% OUTPUT.
- 8. AUTOMATIC DAYLIGHT DIMMING: APPLIES ONLY TO SPACES THAT RECEIVE DAYLIGHT. THE CONTROLS SHALL ADJUST THE OUTPUT OF THE LIGHTING FIXTURES WITHIN THE DAYLIGHT ZONE(S) TO ACCOUNT FOR VARIATIONS IN DAYLIGHT. PROVIDE DAYLIGHT ZONES AS DESCRIBED BELOW. THESE ZONES COMPLY WITH ASHRAE 90.1, CHAPTER 9.
- A. DAYLIGHT ZONES NEXT TO FENESTRATION ON WALLS: PROVIDE TWO SEPARATE, PRIMARY AND SECONDARY, CONTROL ZONES PER
- FENESTRATION. COMBINE CONTROL OF ZONES THAT OVERLAP.
- X = DISTANCE FROM FLOOR TO TOP OF FENESTRATION. PRIMARY ZONE DEPTH = FROM FENESTRATION TO X INTO THE SPACE OR
- TO WALL IN FRONT OF FENESTRATION IF CLOSER THAN X. SECONDARY ZONE DEPTH = FROM X TO 2X INTO THE SPACE OR TO WALL IN FRONT OF FENESTRATION IF CLOSER THAN 2X.
- PRIMARY AND SECONDARY ZONE WIDTHS = FENESTRATION WIDTH PLUS 0.5X ON EACH SIDE OR TO WALLS ON SIDES OF FENESTRATION IF CLOSER
- B. DAYLIGHT ZONES UNDER SKYLIGHTS: ONE CONTROL ZONE PER SKYLIGHT.
- COMBINE CONTROL OF ZONES THAT OVERLAP.
- Y = DISTANCE FROM FLOOR TO CEILING.
- C. DAYLIGHT ZONES UNDER LIGHT MONITORS: ONE CONTROL ZONE PER LIGHT MONITOR. COMBINE CONTROL OF ZONES THAT OVERLAP.
- Z = DISTANCE FROM FLOOR TO LIGHT MONITOR SILL. ZONE DEPTH = FROM FENESTRATION TO Z INTO THE SPACE OR TO WALL
- IN FRONT OF FENESTRATION IF CLOSER THAN Z. ZONE WIDTH = FENESTRATION WIDTH PLUS TWO FEET ON EACH SIDE OR TO WALLS ON SIDES OF FENESTRATION IF CLOSER THAN TWO FEET.
- 9. AUTOMATIC PARTIAL OFF: THE OCCUPANCY SENSORS IN THE SPACE SHALL DIM THE LIGHTING FIXTURES DOWN TO 50% OUTPUT WITHIN 10 MINUTES AFTER ALL OCCUPANTS LEAVE THE SPACE.
- 10. AUTOMATIC FULL OFF: THE OCCUPANCY SENSORS IN THE SPACE SHALL TURN THE LIGHTING FIXTURES OFF WITHIN 10 MINUTES AFTER ALL OCCUPANTS LEAVE
- THE SPACE. 11. SCHEDULED FULL OFF: THE LIGHTING FIXTURES IN THE SPACE SHALL TURN OFF
- AS SCHEDULED AFTER THE BUILDING IS CLOSED TO THE PUBLIC. TIME SIGNAL SHALL COME FROM THE BAS.
- 12. COORDINATE BUILDING SCHEDULE WITH OWNER.
- 13. COORDINATE ALL FINAL FUNCTIONS WITH OWNER AND ARCHITECT.

Renovate 4E NMAL **Office Suite**

NOT FOR CONSTRUCTION

GRAPHIC SCALE(S)

04/18/25 | Final construction docs

08/26/25 ADDENDUM #1



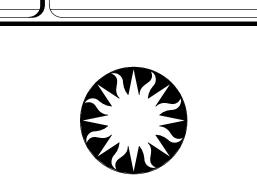
Smithsonian Institution 600 Maryland Avenue S.W. Suite 5001 Washington, DC 20024-2520

CAPITAL GALLERY ADMIN HQ, EAST

POC DRAWN BY

THAN 0.5X. • ZONE AREA = SKYLIGHT AREA PLUS 0.7Y ON ALL SIDES.

SI PROJECT NUMBER



SUITE 2466904 A/E PROJECT NUMBER ASG 3000738.00

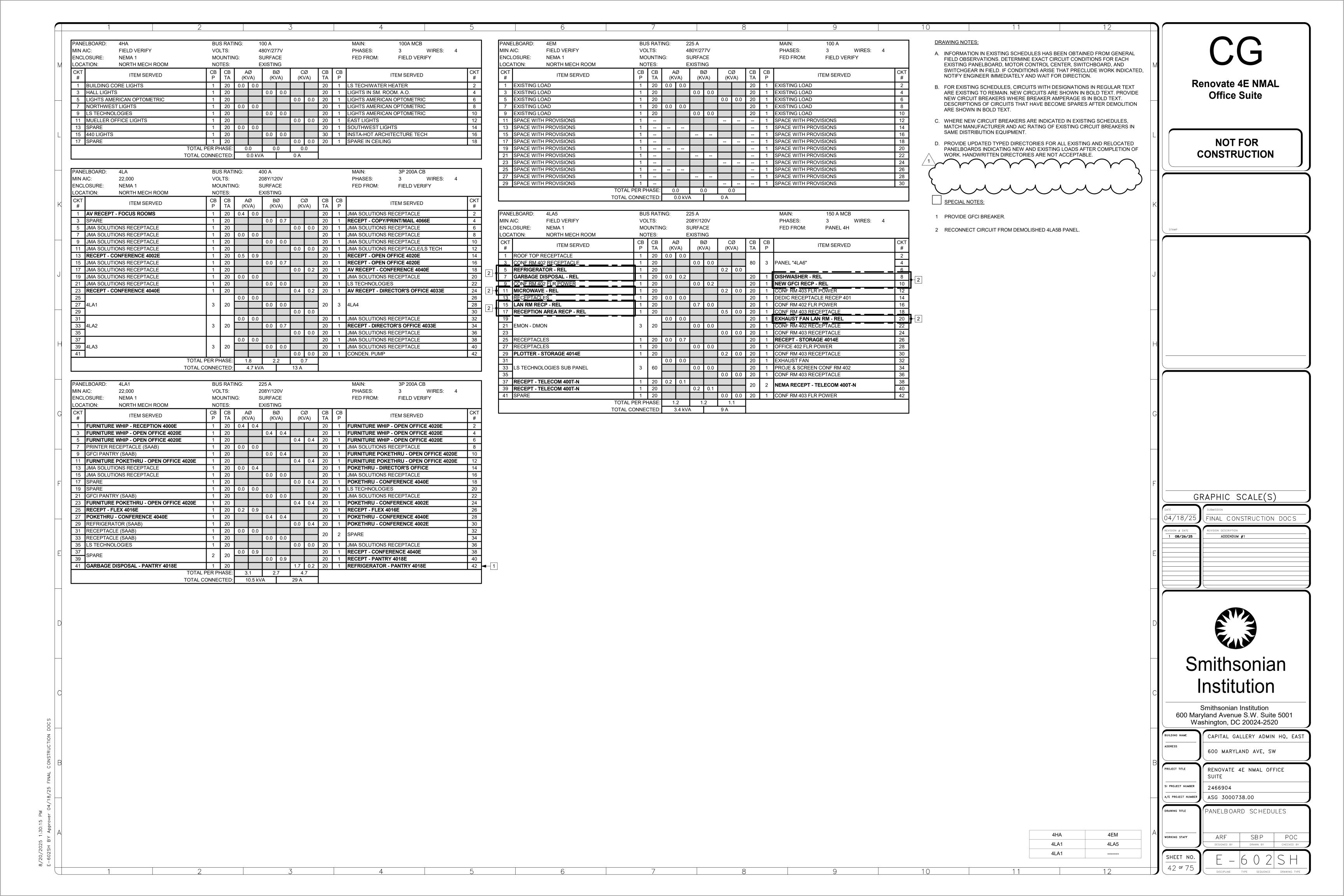
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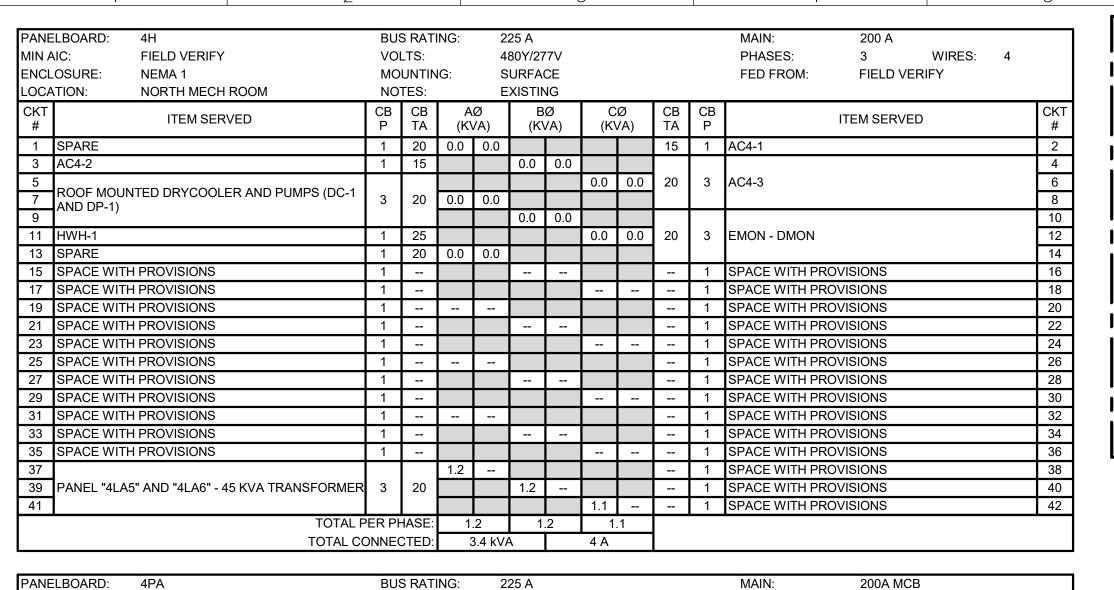
ELECTRICAL SCHEDULES

RENOVATE 4E NMAL OFFICE

600 MARYLAND AVE, SW

SBP





PANE	PANELBOARD: 4PA				ING:	2	25 A					MAIN: 200A MCB			
MIN A	AIC: FIELD VERIFY		VO	LTS:		4	80Y/27	7V					PHASES: 3 WIRES: 4		
ENCL	ENCLOSURE: NEMA 1		MC	UNTIN	IG:	S	URFA	CE					FED FROM: FIELD VERIFY		
LOCA	OCATION: NORTH MECH ROOM		NO	TES:		Е	EXISTING								
CKT #		ITEM SERVED	CB P	CB TA		νØ VA)		Ø /A)	CØ (KVA)		CB TA	CB P	ITEM SERVED		
1					0.0	0.0								2	
3	WESTWALL H	ESTWALL HEAT PUMPS		30			0.0	0.0			30	30 3	NORTHEAST WALL HEAT PUMPS		
5	1								0.0	0.0				6	
7					0.0	0.0								8	
9	NORTHWALL	IORTHWALL HEAT PUMPS		30			0.0	0.0			30	3	NORTHEAST WALL HEAT PUMPS		
11									0.0	0.0				12	
13					0.0	0.0								10	
15	EAST WALL H	HEAT PUMPS	3	30			0.0	0.0			25	3	SPARE		
17									0.0	0.0					
	WSHP-1		1	20	1.3	1.9					20		WSHP-2	20	
21	WSHP-1 CON	IDENSATE PUMP	1	20			0.4	0.4			20	1	WSHP-2 CONDENSATE PUMP	22	
23	SPARE		1	20					0.0	0.0	20	1	SPARE	24	
25	SPACE WITH	PROVISIONS	1									1	SPACE WITH PROVISIONS	26	
27	SPACE WITH	PROVISIONS	1									1	SPACE WITH PROVISIONS	28	
TOTAL PER PHASE:					3	3.2 0.7			0.	0					
TOTAL CONNECTED: 3.						3.9 kV	kVA 5 A								

PANELB(OARD: 4LA5B	BU:	S RAT	ING:	2	25 A						MAIN: 60 A				
MIN AIC: FIELD VERIFY			LTS:		2	208Y/120V						PHASES: 3 WIRES: 4				
ENCLOS	ENCLOSURE: NEMA 1		UNTIN	IG:	: SURFACE							FED FROM: FIELD VERIFY				
LOCATIO	ON: RECEPTION 4000E	NO	TES:		E	XISTIN	NG TO	BE DE	EMOLI:	SHED						
CKT #	ITEM SERVED	CB P	CB TA		Ø VA)		Ø VA)	C (K)	Ø /A)	CB TA	CB P	ITEM SERVED	CK ⁻			
1 NE	EW GFCI RECP	1	20	0.0	0.0					20	1	RECEPTION AREA RECP	2			
3 DIS	SHWASHER	1	20			0.0	0.0			20	1	LAN RM RECP	4			
5 GA	ARBAGE DISPOSAL	1	20					0.0	0.0	20	1	EXHAUST FAN LAN RM	6			
7 MI	CROWAVE RECP	1	20	0.0	0.0					20	1	REFRIGERATOR	8			
9 SP	PARE	1	20			0.0	0.0			20	1	SPARE	10			
11 SP	PARE	1	20					0.0	0.0	20	1	SPARE	12			
13 SP	PARE	1	20	0.0	0.0					20	1	SPARE	14			
	PACE WITH PROVISIONS	1									1	SPACE WITH PROVISIONS	16			
17 SP	PACE WITH PROVISIONS	1							-		1	SPACE WITH PROVISIONS	18			
	PACE WITH PROVISIONS	1									1	SPACE WITH PROVISIONS	20			
	PACE WITH PROVISIONS	1									1	SPACE WITH PROVISIONS	22			
	PACE WITH PROVISIONS	1									1	SPACE WITH PROVISIONS	24			
	PACE WITH PROVISIONS	1									1	SPACE WITH PROVISIONS	26			
	PACE WITH PROVISIONS	1									1	SPACE WITH PROVISIONS	28			
29 SP	PACE WITH PROVISIONS	1									1	SPACE WITH PROVISIONS	30			
TOTAL PER PHASE:				0	.0	0	.0	0.	.0							

DRAWING NOTES:

- A. INFORMATION IN EXISTING SCHEDULES HAS BEEN OBTAINED FROM GENERAL FIELD OBSERVATIONS. DETERMINE EXACT CIRCUIT CONDITIONS FOR EACH EXISTING PANELBOARD, MOTOR CONTROL CENTER, SWITCHBOARD, AND SWITCHGEAR IN FIELD. IF CONDITIONS ARISE THAT PRECLUDE WORK INDICATED, NOTIFY ENGINEER IMMEDIATELY AND WAIT FOR DIRECTION.
- B. FOR EXISTING SCHEDULES, CIRCUITS WITH DESIGNATIONS IN REGULAR TEXT ARE EXISTING TO REMAIN. NEW CIRCUITS ARE SHOWN IN BOLD TEXT. PROVIDE NEW CIRCUIT BREAKERS WHERE BREAKER AMPERAGE IS IN BOLD TEXT. DESCRIPTIONS OF CIRCUITS THAT HAVE BECOME SPARES AFTER DEMOLITION ARE SHOWN IN BOLD TEXT.
- C. WHERE NEW CIRCUIT BREAKERS ARE INDICATED IN EXISTING SCHEDULES, MATCH MANUFACTURER AND AIC RATING OF EXISTING CIRCUIT BREAKERS IN SAME DISTRIBUTION EQUIPMENT.
- D. PROVIDE UPDATED TYPED DIRECTORIES FOR ALL EXISTING AND RELOCATED PANELBOARDS INDICATING NEW AND EXISTING LOADS AFTER COMPLETION OF WORK. HANDWRITTEN DIRECTORIES ARE NOT ACCEPTABLE.

1 EXISTING PANEL TO BE DEMOLISHED. RECONNECT CIRCUITS TO PANEL 4LA5 AS SHOWN.

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GRAPHIC SCALE(S)

04/18/25 Final construction docs ADDENDUM #1 1 08/26/25

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RENOVATE 4E NMAL OFFICE 2466904 A/E PROJECT NUMBER ASG 3000738.00

PANELBOARD SCHEDULES

SBP POC

4LA5B 4PA

- PROVIDE TEMPORARY POWER AS MAY BE REQUIRED FOR CONSTRUCTION OR AS MAY BE REQUIRED TO MAINTAIN CRITICAL OPERATIONS DURING CHANGEOVER OF FEEDERS OR SERVICES. PROVIDE ALL EQUIPMENT, MAKE ALL ARRANGEMENTS, AND MAKE ALL CONNECTIONS REQUIRED FOR TEMPORARY POWER. REMOVE ALL PROVISIONS FOR TEMPORARY POWER UPON COMPLETION OF THE PROJECT.
- SCHEDULE IN ADVANCE ALL OUTAGES OF BUILDING UTILITIES. OUTAGES SHALL BE AS SHORT AS POSSIBLE. ALL SERVICES SHALL BE RESTORED AND PLACED IN OPERATION WHEN CONTRACTOR'S PERSONNEL LEAVE THE SITE EACH DAY.
- TAKE NECESSARY PRECAUTIONS TO PROTECT BUILDING'S OCCUPANTS AND CONTENTS, AND PREVENT THE SPREAD OF DUST AND DIRT INTO OCCUPIED AREAS

PART 2 - PRODUCTS

2.1 RACEWAY

- FOR INDOORS ABOVE FLOOR SLAB, USE EMT CONDUIT WITH COMPRESSION FITTINGS WITH A MINIMUM SIZE OF 3/4 INCH (REGARDLESS OF FUNCTION/PURPOSE) AND MAXIMUM SIZE OF 2 INCHES. ABOVE 2 INCHES, CONDUIT SHALL BE RIGID STEEL CONDUIT, ZINC COATED WITH THREADED TYPE FITTINGS.
 - FOR LOW-VOLTAGE, SPECIAL SYSTEMS PROVIDE THE FOLLOWING COLOR-COATED **EMT RACEWAY:**
 - FIRE ALARM RED.
 - TELECOMMUNICATIONS GREEN.
 - c. SECURITY WHITE.
- NON-METALLIC RACEWAY: PROVIDE EXPANSION JOINTS IN EVERY 20 FOOT OF RUN AND AT LEAST ONCE IN EVERY RUN IN ALL OUTDOOR, ROOFTOP, AND GARAGE LOCATIONS. PROVIDE PVC 40 CONDUIT, NON-METALLIC NEMA 4X BOXES AND NON-METALLIC NEMA 4X ENCLOSURES SUPPORTED VIA NON-METALLIC FIBERGLASS STRUT AND/OR PIPE CLAMPS AT THE FOLLOWING LOCATIONS:
- 1. ALL OUTDOOR LOCATIONS INCLUDING, BUT NOT LIMITED TO, INSIDE GARAGES AND ON **ROOFTOPS**
- EMBEDDED IN CONCRETE, BRICK, CMU OR OTHER STRUCTURAL MATERIAL
- BELOW-SLAB AND -GRADE.
- 4. ALL UNCONDITIONED-AIR SPACES/ROOMS IN PARKING GARAGES.
- C. UTILIZE RIGID GALVANIZED STEEL IN EXTERIOR LOCATIONS ABOVE GRADE WHERE THERE IS A POTENTIAL FOR DAMAGE OR BELOW 8 FEET IN VEHICLE/CART TRAFFIC AREAS AND WHERE OTHERWISE REQUIRED BY THE NEC.
- FLEXIBLE METAL CONDUIT: PROVIDE FLEXIBLE METAL CONDUIT (LIQUID-TIGHT IN OUTDOOR OR UNDERFLOOR LOCATIONS) FOR THE FOLLOWING INSTALLATIONS:
- VIBRATING EQUIPMENT (MOTORS, TRANSFORMERS, ETC.) LIMITED TO THE LAST 36 INCHES PRIOR TO TERMINATION.
- EMBEDDED IN CMU WALLS.
- FLEXIBLE CONNECTIONS TO MOTORS SHALL CONTAIN A 90 DEGREE BEND.
- SUPPORTS FOR ALL INDOOR, CONDITIONED-SPACE LOCATIONS UTILIZE CONDUIT CLAMPS, CONDUIT STRAPS, BEAN CLAMPS, ETC. AND/OR CHANNEL STRUT SUPPORTS. FOR ALL OUTDOOR APPLICATIONS PROVIDE ONLY GALVANIZED STEEL CONDUIT SUPPORTS AND/OR CHANNEL STRUT. SUPPORT CONDUITS AT A MINIMUM OF TWO (2) TIMES PER 10 FT. LENGTH AND AT A FREQUENCY RATE AS DIRECTED BY THE NEC.
- BUSHINGS PROVIDE ONLY THREADED TYPE FOR IMC AND RGS RACEWAY. PROVIDE ONLY STEEL COMPRESSION TYPE FOR ALL EMT RACEWAY SYSTEMS. PROVIDE INSULATED-THROAT, THREADED TYPE BUSHINGS FOR ALL TEL/DATA RACEWAY SYSTEMS.
- RACEWAYS BELOW RAISED FLOOR SHALL BE LIQUID-TIGHT FLEXIBLE CONDUIT OR EMT WITH LIQUID-TIGHT COMPRESSION FITTINGS.
- SURFACE METAL RACEWAYS SHALL BE USED ONLY IN FINISHED AREAS AND ONLY WHERE SPECIFICALLY NOTED ON THE DRAWINGS. SURFACE MOUNTED RACEWAYS SHALL BE WIREMOLD 500, 700, 1000, OR 4000 SERIES OR PRE-APPROVED EQUIVALENT WITH BUFF FINISH USED AS FOLLOWS:
- 1. # 500: 2-#10 OR 3-#12 WIRES MAXIMUM.
- 2. # 700: 3-#10 OR 4-#12 WIRES MAXIMUM.
- 3. #1000: 9-#10 OR 12-#12 WIRES MAXIMUM.
- 4. OTHER COMBINATIONS OF CONDUCTORS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED DATA AND THE NATIONAL ELECTRICAL CODE.
- 5. ALL ELBOWS, BOXES FITTINGS SUPPORTS, ETC., SHALL BE BY THE RACEWAYS
- MANUFACTURER. FINISH SHALL MATCH THAT OF THE RACEWAY. WIRE TROUGH SHALL BE STEEL ENCLOSED WIREWAY MEETING ALL UL REQUIREMENTS.
- SURFACE MOUNTED RACEWAYS AT LABORATORY BENCHES SHALL BE WIREMOLD V3000
- SERIES OR PRE-APPROVED EQUIVALENT WITH A GRAY FINISH AS FOLLOWS:
- STEEL CONSTRUCTION, GRAY, SCRATCH RESISTANT FINISH.
- TWO PIECE SEPARABLE BASE AND COVER PLATE.
- COMPLETE WITH ENTRANCE JUNCTION BOXES, WIRE RETAINER CLIPS, DEVICE BRACKETS, END PLATES, ETC.
- POWER OUTLETS, NEMA TYPE, AT LOCATIONS INDICATED ON THE CD'S.
- POWER OUTLETS WITHIN SIX FEET OF THE SINK SHALL BE GFCI TYPE.
- EACH RECEPTACLE SHALL BE NEATLY MARKED ON THE INSIDE COVER WITH INDELIBLE MARKER IDENTIFYING THE PANEL AND BREAKER FROM WHICH IT IS FED AND DURABLE MARKERS OR TAG INSIDE OUTLET BOX. THIS TO ENSURE THE CORRECT COVERS ARE RESTORED AFTER ROOM RENOVATIONS AND/OR PAINTING. IN ADDITION TO MARKING CIRCUIT IDENTIFICATION INSIDE THE COVER, ALSO PROVIDE LAMINATED LABEL WITH CIRCUIT NUMBER ON DEVICE COVER PLATES.
- ALL NEW RACEWAYS IN FINISHED AREAS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE
- GROUT AROUND ALL CONDUITS AT CEILING, FLOOR, AND WALL PENETRATIONS TO PROVIDE AIRTIGHT SEAL. ALL FLOOR SLAB AND FIRE-RATED WALL PENETRATIONS SHALL BE SEALED WITH A RATED SYSTEM/INSTALLATION THAT IS PRE-APPROVED BY THE FIRE MARSHAL SUBMIT MANUFACTURER'S ENGINEERING DRAWING OF THE PROPOSED FIRE-PROOFING SYSTEM TO THE ENGINEER FOR APPROVAL.
- GROUP TOGETHER EXPOSED CONDUIT INSOFAR AS POSSIBLE. INSTALL ALL CONDUITS PARALLEL OR PERPENDICULAR TO THE BUILDING SURFACES. MAINTAIN MINIMUM 6 INCH SPACING FROM PARALLEL FLUES, STEAM PIPES, OR HOT WATER PIPES AND 2 INCHES FROM PERPENDICULAR FLUES, STEAM OR HOT WATER PIPES.
- ALL CONDUITS SHALL BE RIGIDLY SUPPORTED TO BUILDING STRUCTURE. CONDUITS SHALL NOT BE SUPPORTED FROM SUSPENDED CEILING SUPPORT WIRES.
- N. ALL CONDUIT BENDS SHALL BE MADE WITH AN APPROVED CONDUIT BENDER AND NO BEND SHALL HAVE A CENTERLINE RADIUS LESS THAN SIX TIMES THE DIAMETER OF THE CONDUIT.

O. CORE DRILLING/FLOOR PENETRATIONS: IF DETERMINED NECESSARY, PROVIDE X-RAY EXAMINATION OF THE FLOOR STRUCTURE TO LOCATE STRUCTURAL STEEL FOR AVOIDANCE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING STRUCTURAL INTEGRITY OF ALL FLOORS AND WALLS AFTER CORE DRILLS FOR CONDUITS ARE MADE.

2.2 BOXES AND ENCLOSURES

- A. INTERIOR OUTLET BOXES SHALL BE GALVANIZED STEEL. MINIMUM 14 GAUGE. NO LESS THAN 4 INCHES SQUARE WITH EXTENSION RINGS AND MOUNTING BRACKETS.
- BOXES BELOW RAISED FLOORS SHALL BE CAST-METAL, THREADED HUB TYPE UNLESS THE BOX IS MOUNTED 1-1/2 INCHES OR MORE ABOVE THE SLAB, IN WHICH CASE NEMA 1 BOXES OR INTERIOR OUTLET BOXES MAY BE USED.
- OUTLET BOXES SHALL BE RIGIDLY AND SECURELY FASTENED IN PLACE. OUTLET BOXES IN FINISHED AREAS SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED.
- BOXES SHALL BE SIZED IN ACCORDANCE WITH NEC ARTICLE 370.
- E. ALL CONDUIT CONNECTORS AND ENTRY HUBS SHALL BE INSULATED OR HAVE INSULATED
- F. OUTLETS SHOWN ADJACENT TO ONE ANOTHER ON THE PLANS AT THE SAME MOUNTING HEIGHT SHALL BE GANGED EXCEPT WHERE NOTED.
- G. OUTLETS SHOWN ADJACENT TO ONE ANOTHER ON THE PLANS AT DIFFERENT MOUNTING HEIGHTS SHALL BE LOCATED WITH THE UPPER OUTLET CENTERED DIRECTLY OVER THE LOWER OUTLET.

2.3 WIRE AND CABLE

- A. ALL WIRE SHALL BE COPPER WITH INSULATION RATED AT 600 VOLTS, 75°C MINIMUM. ALUMINUM WIRE IS STRICTLY PROHIBITED.
- MINIMUM WIRE SIZES SHALL BE #12 AWG FOR POWER WIRING. #14 AWG FOR CONTROL WIRING AND AS SPECIALLY NOTED FOR SYSTEMS WIRING.
- WIRE SHALL BE SOLID TYPE THHN OR THWN-2 UP TO SIZE 10 AWG AND STRANDED TYPE THWN-2 OR THHN FOR SIZE 8 AWG AND LARGER. (UNLESS NOTED OTHERWISE.) UNLESS DIRECTED OTHERWISE, DO NOT EXCEED 40% CONDUIT FILL
- MC CABLE TYPE STEEL-CLAD MC CABLE WITH SEPARATE, ISOLATED GROUND CONDUCTOR (I.E. DO NOT USE THE JACKET FOR THE GROUND CONDUCTOR) MAY BE USED IN CONCEALED LOCATIONS FOR LIGHTING AND RECEPTACLE CIRCUITS OR AS OTHERWISE DIRECTED ON THE CONTRACT DRAWINGS. INDIVIDUAL CONDUCTOR COLOR-CODING SCHEME MUST FOLLOW COLOR-CODE SCHEME DESCRIBED BELOW. FOR RENOVATION PROJECTS, THE APPLICATION OF MC CABLE SHALL MIRROR THE STANDARDS FOLLOWED FOR THE BUILDING'S ORIGINAL ELECTRICAL RACEWAY SYSTEM FIT-OUT. DO NOT RUN MC CABLE IN EXPOSED LOCATIONS (E.G. ALL OPEN CEILING LOCATIONS, MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS, IT ROOMS, ETC.).
 - MC CABLE INSTALLATION REQUIREMENTS: INDEPENDENTLY SUPPORT ALL MC CABLE RUNS; DO NOT PIGGY-BACK ON PLUMBING/HVAC, LIGHTING FIXTURE, AND/OR CEILING GRID SUPPORTS. DO NOT BUNDLE MORE THAN THREE (3) RUNS TOGETHER FOR SUPPORTING PURPOSES.
- E. MOLDED CONNECTORS (WIRE NUTS) MAY BE USED FOR SPLICING SIZE 10 AWG OR SMALLER WIRES ON LIGHTING AND RECEPTACLE CIRCUITS ONLY. "SCOTCH BLOCKS" MUST BE SUBMITTED FOR PRIOR APPROVAL. ALL OTHER WIRING SHALL BE SPLICED ONLY WITH LUGS AND/OR TERMINAL BLOCKS.
- TERMINAL LUGS SHALL BE MECHANICAL CLAMP OR COMPRESSION TYPE UNLESS PART OF A CIRCUIT BREAKER OR SWITCH ASSEMBLY.
- G. SPECIAL LUGS MAY BE REQUIRED TO ACCOMMODATE CONDUCTOR SIZES SHOWN ON THE DRAWINGS. CONTRACTOR SHALL VERIFY LUG REQUIREMENTS FOR ALL CIRCUIT BREAKERS AND EQUIPMENT TERMINALS AND SHALL PROVIDE CORRECT LUGS AS REQUIRED.
- H. UNDER NO CIRCUMSTANCES SHALL FEEDERS BE SPLICED AND/OR TAPPED.
- LIGHTING AND RECEPTACLE BRANCH CIRCUIT HOME RUNS OVER 100 FEET LONG SHALL BE SIZE 10 AWG MINIMUM.
- J. COLOR CODE THE ENTIRE POWER WIRING SYSTEM AS FOLLOWS:

208/120 VOLT SYSTEM	480/277 VOLT SYST
PHASE A - BLACK	PHASE A - BROWN
PHASE B - RED	PHASE B - ORANGE
PHASE C - BLUE	PHASE C - YELLOW
NEUTRAL - WHITE	NEUTRAL - GRAY
GROUND - GREEN	GROUND - GREEN

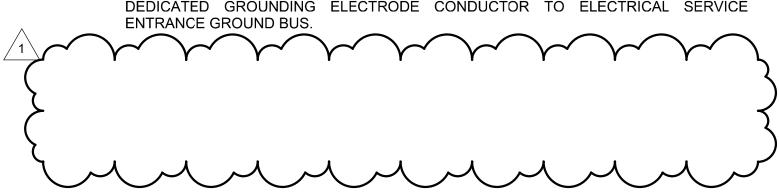
2.4 GROUNDING

- PROVIDE A COMPLETE EQUIPMENT SAFETY GROUND SYSTEM ("GREENWIRE" GROUND) FOR THE ENTIRE ELECTRICAL SYSTEM AS REQUIRED BY ARTICLE 250 OF THE NEC, AND AS SPECIFIED HEREIN.
- PROVIDE ADDITIONAL GROUNDING AS INDICATED ON THE PLANS.
- C. ALL GROUNDING WIRE, LUGS, JUMPERS AND BUS SHALL BE COPPER.
- ALL FEEDER AND BRANCH CIRCUITS SHALL CONTAIN AN EQUIPMENT GROUND WIRE. NO CONDUIT OR RACEWAY OF ANY KIND OR LENGTH SHALL BE USED AS THE EQUIPMENT GROUNDING CONDUCTOR.
- EQUIPMENT GROUNDING CONDUCTORS AND STRAPS SHALL BE SIZED IN ACCORDANCE WITH THE NEC. REFER TO FEEDER SCHEDULES FOR GROUND WIRE REQUIREMENTS WHICH MAY EXCEED THE NEC. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE PROVIDED WITH GREEN INSULATION EQUIVALENT TO THE INSULATION ON THE ASSOCIATED PHASE CONDUCTORS.
- F. THE EQUIPMENT GROUNDING SYSTEM SHALL BE INSTALLED SO ALL METALLIC STRUCTURES, ENCLOSURES, RACEWAYS, PIPING, SYSTEMS, JUNCTION BOXES, OUTLET BOXES, CABINETS, MACHINE FRAMES AND PORTABLE EQUIPMENT FRAMES OPERATE CONTINUOUSLY AT GROUND POTENTIAL AND PROVIDE A LOW IMPEDANCE PATH FOR GROUND FAULT CURRENTS.
- G. WHERE PARALLEL FEEDERS ARE USED. EACH RACEWAY SHALL CONTAIN AN EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH NEC 250-95 FOR THE COMBINED PARALLEL CIRCUIT AMPERAGE.
- H. GROUNDING CONDUCTORS SHALL BE CONTINUOUS AND NO SPLICING SHALL BE ALLOWED.
- RECEPTACLES SHALL BE BONDED TO THEIR OUTLET BOXES WITH #12 AWG COPPER STRAPS.
- 1. STRAPS MAY BE OMITTED IF SELF-GROUNDING DEVICES ARE UTILIZED.

K. BOND ALL SEPARATELY DERIVED POWER SOURCES IN ACCORDANCE WITH NEC 250. ONLY BOND WATER SERVICE AT NO MORE THAN 5 FEET UPON ENTERING BUILDING (NEC 250.52) AND ONLY TO BUILDING'S UNDERGROUND GRID (I.E. DO NOT INTERCONNECT SEPARATELY DERIVED SYSTEM GROUNDED CONDUCTOR WITH BUILDING'S WATER PIPING). FOR SEPARATELY-DERIVED SYSTEMS/SERVICES, INTERCONNECT THE GROUNDED CONDUCTOR WITH THE BUILDING'S GROUNDING ELECTRODE VIA ONE OF THE FOLLOWING MEANS:

STRUCTURAL STEEL STRUCTURES - INTERCONNECT WITH STRUCTURAL STEEL MEMBER OR WITH COMMON GROUNDING ELECTRODE RISER (TYPICALLY IN STACKED

ELECTRIC CLOSETS). POURED-CONCRETE, WOOD FRAMING, ETC. TYPE STRUCTURES - INTERCONNECT WITH COMMON GROUNDING ELECTRODE RISER. IF RISER DOES NOT EXIST, PROVIDE DEDICATED GROUNDING ELECTRODE CONDUCTOR TO ELECTRICAL SERVICE



ENCLOSED SWITCHES AND DISCONNECTS 2.5

- A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL EQUIPMENT SHOWN ON THE DRAWINGS. ALL MANUFACTURERS' SPECIFICATIONS SHALL BE FOLLOWED IN REGARD TO THE INSTALLATION OF ALL EQUIPMENT. ANY SPECIAL MANUFACTURERS' REQUIREMENTS NECESSARY FOR PROPER OR SAFE INSTALLATION OF EQUIPMENT REGARDLESS OF WHETHER THE AFOREMENTIONED SPECIAL REQUIREMENTS ARE INDICATED ON THE DRAWINGS SHALL BE AT THE EXPENSE AND RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PURCHASE. RIGGING. ERECTION INSTALLATION, AND FUNCTIONAL OPERATION OF ALL ELECTRICAL EQUIPMENT EXCEPT WHERE NOTED. ALL MATERIALS AND EQUIPMENT SHALL, WHEN A LISTING IS NORMAL FOR THE PARTICULAR CLASS OF MATERIAL OR EQUIPMENT, BE LISTED AND LABELED BY UL OR A NRTL.
- C. MAKE FINAL ELECTRICAL CONNECTIONS TO ALL ITEMS OF MECHANICAL EQUIPMENT.
- D. ALL LOCATIONS OF EQUIPMENT AND FIXTURES ARE APPROXIMATE AND MAY REQUIRE MINOR ADJUSTMENT TO SUIT FIELD CONDITIONS.
- E. NOT ALL LOCATIONS WHERE MOTOR DISCONNECT SWITCHES ARE REQUIRED MAY BE SHOWN ON THE DRAWINGS. PROVIDE DISCONNECTS AT ALL LOCATIONS REQUIRED BY CODE AND/OR BY THE EQUIPMENT MANUFACTURER THE ELECTRIC SERVICE WILL SUPPORT WHETHER OR NOT THEY ARE ACCOUNTED FOR ON THE CONTRACT DRAWINGS. WHEN REQUIRED, EACH MOTOR SHALL BE EQUIPPED WITH A TWO OR THREE POLE FUSED (OR NON-FUSED LOAD-BREAK), HEAVY-DUTY DISCONNECT SWITCH AS DIRECTED ON THE CONTRACT DRAWINGS.
- EXCEPTION: FRACTIONAL HP MOTORS SHALL BE EQUIPPED WITH TOGGLE-TYPE DISCONNECT SWITCHES. EQUIPMENT WITH INTEGRAL DISCONNECTING MEANS THAT SATISFY NEC AND LOCAL AUTHORITY REQUIREMENTS FOR MOTOR SAFETY DISCONNECTS SHALL NOT REQUIRE A SEPARATE DISCONNECT SWITCH.
- DISCONNECT SWITCHES SHALL BE HEAVY-DUTY, HORSEPOWER RATED, QUICK-MAKE, QUICK-BREAK TYPE WITH SPRING REINFORCED WIRE GRIPS AND SELF-ALIGNING SWITCH CONTACTS. SWITCHES SHALL BE ENCLOSED IN A HEAVY SHEET METAL ENCLOSURE WITH HINGED INTERLOCKING COVER WHICH SHALL PREVENT THE COVER BEING OPENED WHEN SWITCH IS "ON".
- H. LOCATIONS AND RATINGS PROVIDE NEMA 1 OR 12 SWITCH AND DISCONNECT ENCLOSURES FOR ALL INDOOR, DRY LOCATIONS WHERE ONLY EMT, OR RGS CONDUIT AND GALVANIZED STEEL SUPPORT SYSTEMS ARE UTILIZED.

WEATHERPROOF NEMA 3R

- a. ALL LOCATIONS WHERE THE BOX OR ENCLOSURE IS TIED INTO A GALVANIZED STEEL PIPING RACEWAY SYSTEM.
- COORDINATE ALL RECEPTACLES, PLUGS, WIRING AND LOCATIONS WITH THE EQUIPMENT PROVIDED PRIOR TO ROUGH-IN.
- ONLY PROVIDE DISCONNECTS THAT ARE SIZED APPROPRIATELY FOR THE APPLICATION. DISCONNECTS WITH SPARE OR UNUSED POLES ARE STRICTLY PROHIBITED.

DEVICES 2.6

- ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE.
- B. THE CONTRACTOR SHALL VERIFY COLOR, LOCATION AND MOUNTING HEIGHT OF ALL DEVICES PRIOR TO INSTALLATION.
- C. RECEPTACLES SHALL BE FLUSH, DUPLEX, GROUNDING TYPE, 20A, 2P, 3W, 125VAC, NEMA 5-20R STRAIGHT BLADE, IVORY NYLON OR HIGH-STRENGTH THERMOPLASTIC MATERIAL UNLESS INDICATED AS SPECIAL PURPOSE OUTLET. RECEPTACLES SHALL BE DESIGNED TO ACCEPT STANDARD TWO-WIRE PARALLEL CONNECTOR CAPS AND SHALL GRIP BOTH SIDES OF THE CONNECTOR WIRE.
- D. SINGLE THROW LIGHTING SWITCHES SHALL BE QUIET TYPE, 20A, 1P, 120/277VAC, IVORY HANDLE ABLE TO ACCOMMODATE UP TO #10 AWG CONDUCTORS AND DESIGNED FOR INDUCTIVE LIGHTING LOADS. FOR RENOVATION PROJECTS, MATCH EXISTING SWITCHES.
- E. THREE (3) WAY AND FOUR (4) WAY TOGGLE SWITCHES SHALL BE QUIET TYPE, 20A, 120/277VAC, IVORY HANDLE. SWITCHES SHALL BE POSITIVE ACTION TYPE AND SHALL NOT PERMIT A MAINTAINED NEUTRAL POSITION. FOR RENOVATION PROJECTS, MATCH EXISTING SWITCHES.
- CONVENIENCE RECEPTACLES SERVING BATHROOMS, TOILETS, OUTDOOR AND WET LOCATIONS AND CONSTRUCTION SITES SHALL BE GROUND FAULT (WHERE REQUIRED BY THE NEC) INTERRUPTER TYPE, 20A, 2P, 3W, 125VAC, NEMA 5-20R, STRAIGHT BLADE, IVORY HANDLE OR HIGH-STRENGTH THERMOPLASTIC MATERIAL.
- G. PROVIDE 0.04 INCH THICK SATIN FINISH, TYPE 302, STAINLESS STEEL PLATES AT ALL RECEPTACLE AND SWITCH OUTLETS UNLESS OTHERWISE SPECIFIED. PROVIDE GALVANIZED STEEL PLATES IN UNFINISHED SPACES.
- H. ALL WALL BOX DIMMERS SHALL BE UL LISTED SPECIFICALLY FOR THE REQUIRED LOADS (I.E. INCANDESCENT, FLUORESCENT, LOW VOLTAGE, ELECTRONIC LOW VOLTAGE). UNIVERSAL DIMMERS SHALL NOT BE ACCEPTABLE. DIMMERS SHALL INCORPORATE AN AIR GAP, WHICH SHALL BE ACCESSIBLE WITHOUT REMOVING THE FACEPLATE. DIMMERS SHALL PROVIDE POWER FAILURE MEMORY. DIMMERS SHALL MEET ANSI/IEEE STANDARD C62.41-1991 TESTED TO WITHSTAND VOLTAGE SURGES OF UP TO 6000V AND CURRENT SURGES OF UP TO 200A WITHOUT DAMAGE. DIMMER CONTROL SHALL BE LINEAR SLIDE AND SHALL PROVIDE A SMOOTH AND CONTINUOUS SQUARE LAW DIMMING CURVE. DIMMERS AND FACEPLATES SHALL BE LUTRON NOVA T STYLE. OR APPROVED EQUIVALENT.

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A/E PROJECT NUMBE ASG 3000738.00 LECTRICAL SPECIFICATIONS

SBP POC DRAWN BY