

QUAD REPLACE TRACK LIGHTING AT INTERNATIONAL GALLERY

1100 JEFFERSON DR SW
WASHINGTON DC 20004

PN: 2109103
AEPN: 55-23102-00

Project Team

Smithsonian Institution

Daniel Davies Facility Manager, South Mall
Lizza Medina Design Manager / EE
Everton Rowe Cost Engineer
James Donaldson Electronics Technician
Sara Trigo Program Director
Andrew Scott Deputy Chief: Engineering & Design Division
Amber Lee Meade Lighting Designer / National Museum of Asian Art / Sackler Gallery
Kevin Etherton Lighting Designer / National Museum of African Art

AE Team

DLR Group/AE
Rich Hubacker Project Manager
Tom Gallagher Lead Lighting Designer/SME
Mikki Kiger Lighting Designer
Scott Micucci Lead Electrical Engineer
Katie Helmer Senior Electrical Engineer
Anderson Page Lead Mechanical Engineer

OCMI/Cost Estimating
Sai Bypaneni Senior Cost Estimator
Sharif Fayaz Cost Estimator

Building Codes, Standards and Guideline References

- Department of Justice (DOJ) ADA Standards for Accessible Design 9/15/2010
- Illuminating Engineering Society (IES) RP-30-20: Recommended Practice: Lighting Museums 2020
- Illuminating Engineering Society (IES) RP-10-20: Recommended Practice: Lighting Common Applications 2020
- International Building Code (IBC)2021International Energy Conservation Code (IECC)2021International Existing Building Code (IEBC) 2021
- NFPA 70 - National Electrical Code2023NFPA 72 - National Fire Alarm and Signaling Code 2021
- NFPA 101 - Life Safety Code2021Smithsonian Institution - A/E Scope of Work (AE100) for SF Project No. 2109103 Revised 4/26/2022
- NFPA 13 - Standard for the Installation of Fire Sprinklers 2022
- Smithsonian Institution - Special Conditions for Architect/Engineer Services (AE110) July 24, 2020
- Smithsonian Design Standards Volume 1 - 3 October 2021
- Smithsonian Fire Protection & Life Safety Design Manual May 2018

STAMP 1	STAMP 2
STAMP 3	STAMP 4
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STAMP 7	STAMP 8
STAMP 9	STAMP 10

SMITHSONIAN FACILITIES APPROVAL BLOCK

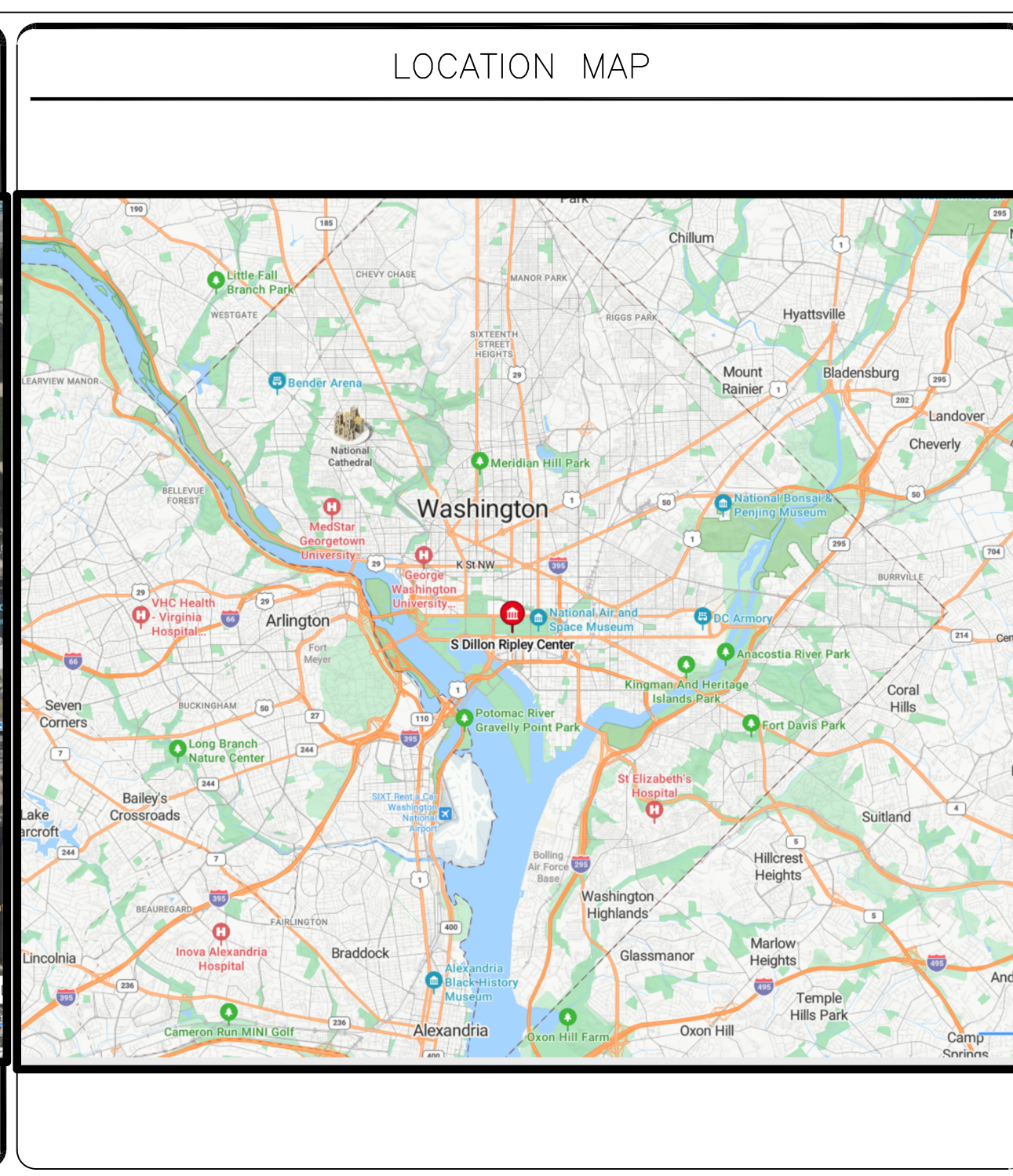
DM: _____
DESIGN CHIEF: _____
R.E.: _____
OPPM: _____
OFM&R: _____
OSHEM: _____
OPS: _____

THIS PROJECT IS APPROVED AS BEING IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF SMITHSONIAN INSTITUTION DIRECTIVE 410.

MICHEL J. CARRANCHO, P.E., DEPUTY DIRECTOR FOR ENGINEERING AND DESIGN, OFDC

DATE: 11/01/24 SUBMISSION: 100% SUBMISSION

REVISION	REVISION
REVISION 1	??/??/??
REVISION 2	
REVISION 3	
REVISION 4	
REVISION 5	
REVISION 6	
REVISION 7	



DRAWING NAME				DRAWING TITLE				DRAWING NAME				DRAWING TITLE			
DISCIPLINE	TYPE	SEQUENCE		DISCIPLINE	TYPE	SEQUENCE		DISCIPLINE	TYPE	SEQUENCE		DISCIPLINE	TYPE	SEQUENCE	
G	CS	001	TITLE SHEET												
G	CS	002	SCOPE AND ACCESS												
G	CS	003	SCOPE AND ACCESS												
G	CS	004	SCOPE AND ACCESS												
A	RCP	101	REFLECTED CEILING PLAN												
A	DT	501	DETAILS												
LS	FP	100	FIRE PROTECTION DEMO PLAN												
LS	FP	101	FIRE PROTECTION PLAN												
M	MP	100	MECHANICAL DEMO PLAN												
M	MP	101	MECHANICAL PLAN												
E	G	001	COVER SHEET - ELECTRICAL												
E	LP	100	LIGHTING PLAN												
E	LP	101	EM LIGHTING PLAN												
E	PP	200	POWER PLAN												
FA	FA	300	FIRE ALARM PLAN												
E	DT	500	ELECTRICAL DETAILS												
E	DG	600	POWER ONE LINE												
E	SH	700	ELECTRICAL SCHEDULES												
E	SH	701	LIGHTING RELAY SCHEDULE												



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600 Maryland Avenue S.W., Suite 5001
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BUILDING NAME: INTERNATIONAL GALLERY
ADDRESS: 1100 JEFFERSON DR SW WASHINGTON DC 20004

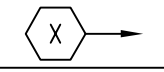
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SF PROJECT NUMBER: 2109103
A/E PROJECT NUMBER: 55-23102-00

DRAWING TITLE: TITLE SHEET
DRAWING TYPE: GENERAL

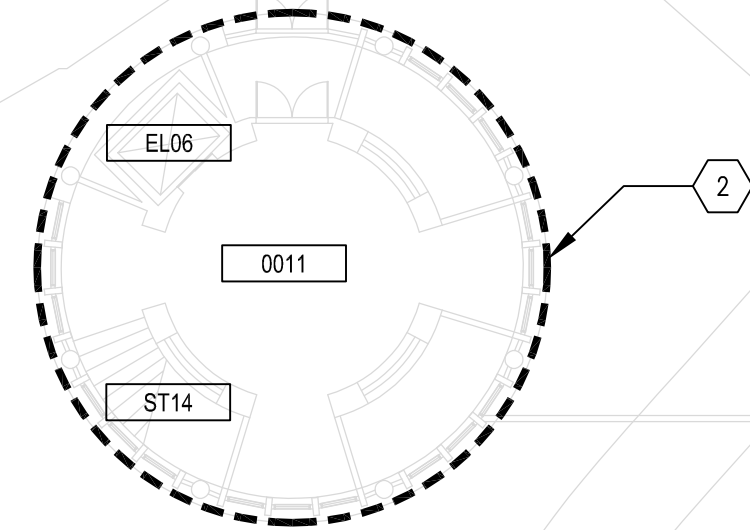
DESIGNED BY: _____ DRAWN BY: _____ CHECKED BY: _____

G-001 G CS 001
DISCIPLINE TYPE SEQUENCE

LEGEND
 AREA NOT IN SCOPE

KEYNOTES
 1. AREAS OF WORK.
 2. CONTRACTOR ACCESS PATHS, TO BE CONFIRMED WITH SMITHSONIAN INSTITUTION REPRESENTATIVE.

ENTRANCE TO RIPLEY INTERNATIONAL CENTER




LOADING DOCK

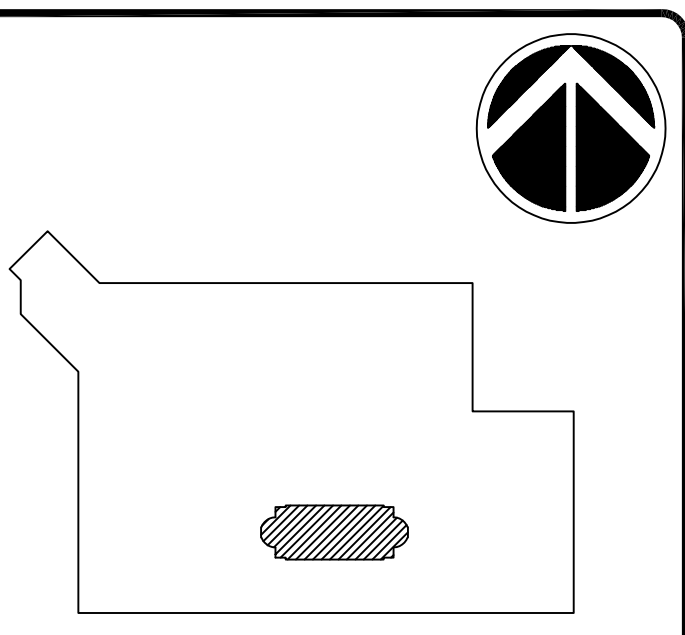
ENTRANCE TO SACKLER GALLERY

ENTRANCE TO NATIONAL MUSEUM OF AFRICAN ART

INDEPENDENCE AVE SW

 1
 G-002
 GROUND LEVEL PLAN
 1/16" = 1' - 0"

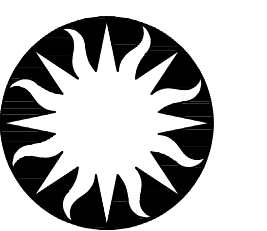
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KEY PLAN

GRAPHIC SCALE(S)

DATE	11/01/24	SUBMISSION	100% SUBMISSION
REVISION		REVISION	
REVISION 1			
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REVISION 5			
REVISION 6			
REVISION 7			



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BUILDING NAME: INTERNATIONAL GALLERY
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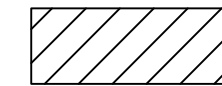
PROJECT TITLE: QUAD REPLACE TRACK LIGHTING AT INTL GALLERY
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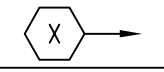
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 DRAWING TYPE: GENERAL

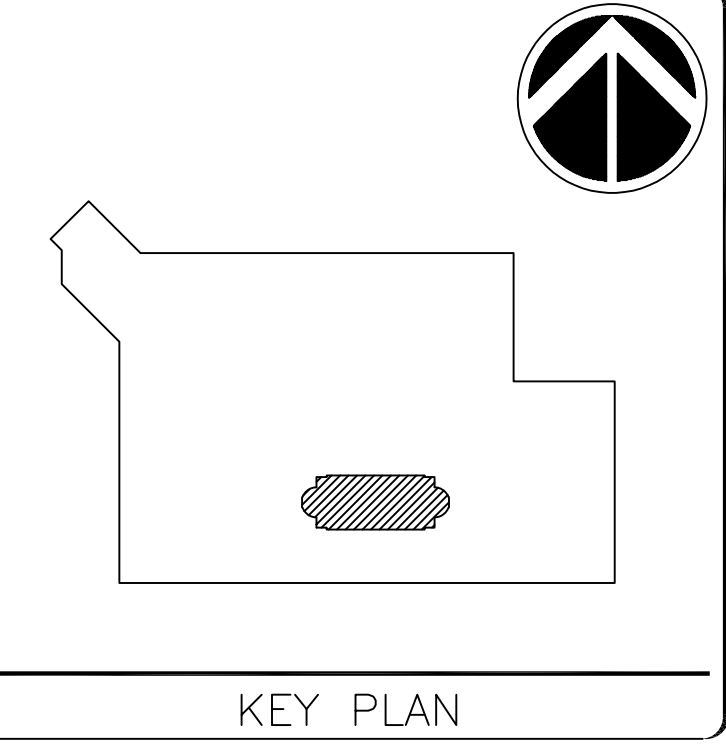
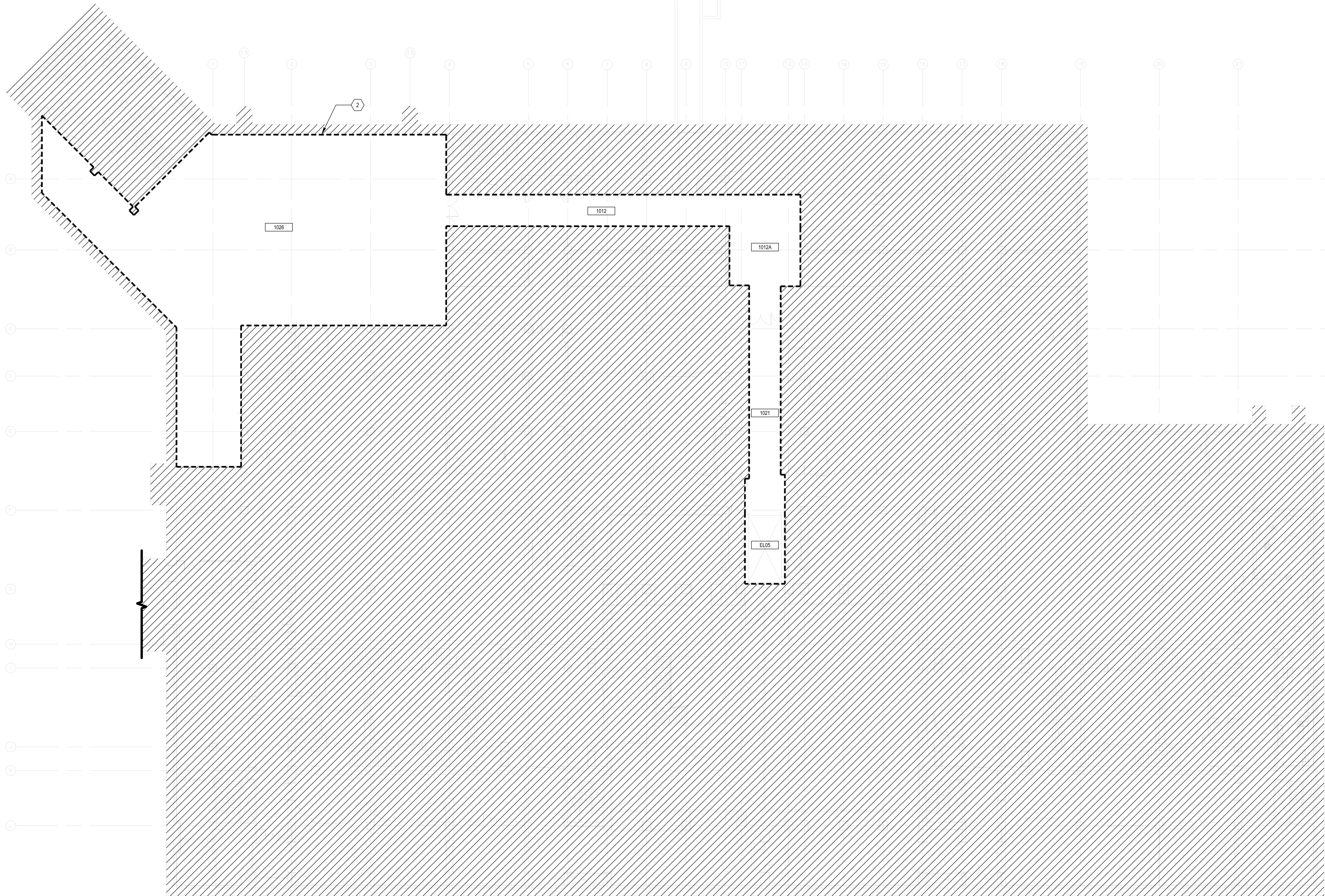
DESIGNED BY	DRAWN BY	CHECKED BY
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G-002	G	CS	002
DISCIPLINE	TYPE	SEQUENCE	

DATE: 11/01/24

LEGEND
 AREA NOT IN SCOPE

KEYNOTES
 1. AREAS OF WORK.
 2. CONTRACTOR ACCESS PATHS, TO BE CONFIRMED WITH SMITHSONIAN INSTITUTION REPRESENTATIVE.



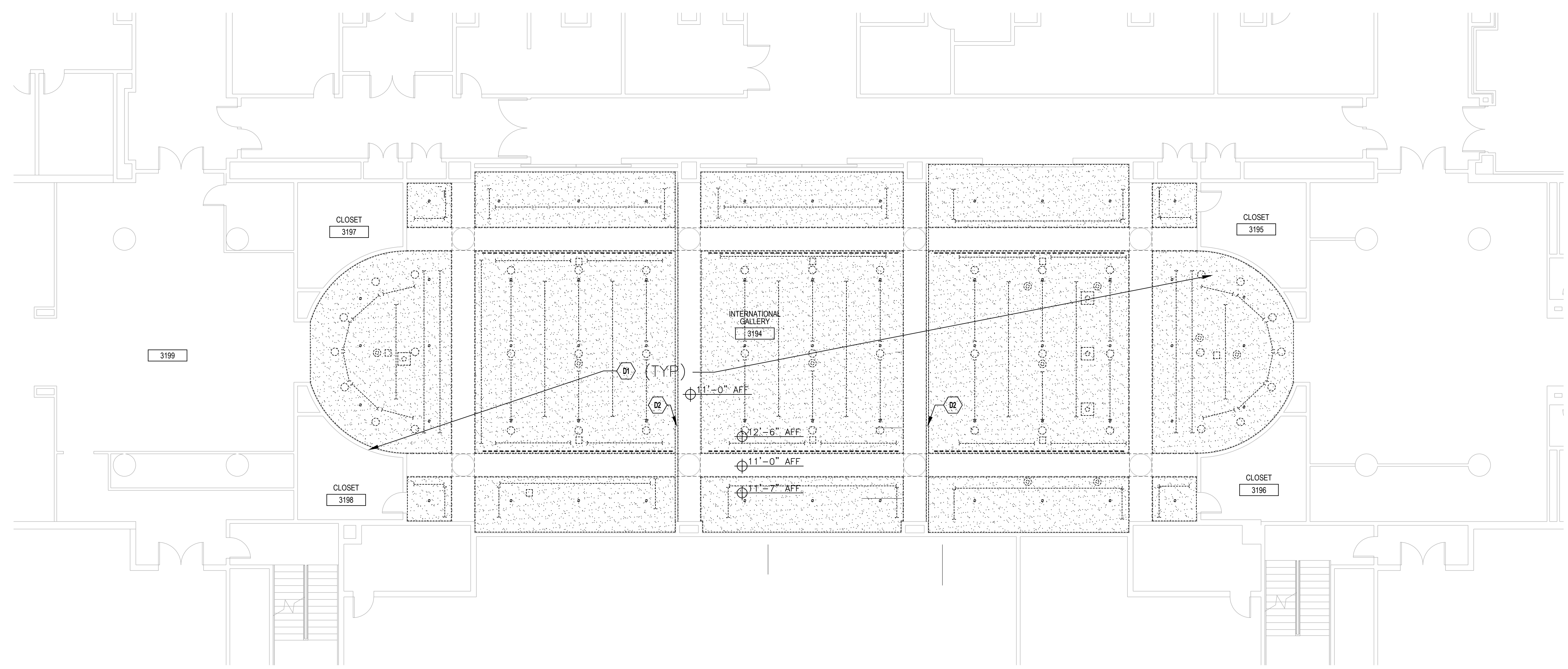
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REVISION 1		REVISION	
REVISION 2			
REVISION 3			
REVISION 4			
REVISION 5			
REVISION 6			
REVISION 7			



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AVE PROJECT NUMBER	55-23102-00
DRAWING TITLE	SCOPE AND ACCESS - SUBLEVEL 1
DRAWING TYPE	GENERAL
DESIGNED BY	---
DRAWN BY	---
CHECKED BY	---
G-003	
G	CS
003	

1
 G-003
 P1 LEVEL PLAN
 1/16" = 1' - 0"

SCALE: 1/16" = 1' - 0"



1 REFLECTED CEILING PLAN LEVEL 3 - DEMOLITION
 1/8" = 1' - 0"



2 REFLECTED CEILING PLAN LEVEL 3 - NEW WORK
 1/8" = 1' - 0"

GENERAL NOTES

- A. NEW CEILING SHALL MATCH EXISTING CEILING HEIGHTS AFF.
- B. CONTRACTOR TO SURVEY ALL ABOVE CEILING AREAS FOR EXISTING CONDITIONS.
- C. FOR NEW LIGHTING, REFER TO LIGHTING DOCUMENTS.
- D. FOR NEW ELECTRICAL, REFER TO ELECTRICAL DOCUMENTS.
- E. FOR NEW MECHANICAL, REFER TO MECHANICAL DOCUMENTS.
- F. FOR NEW FIRE PROTECTION, REFER TO FIRE PROTECTION DOCUMENTS.
- G. CEILING PAINT TO BE BENJAMIN MOORE OC-145 'TRIUM WHITE'.

DEMO KEYNOTES

- D1. REMOVE EXISTING DRYWALL CEILING, CEILING SUPPORT, SPRINKLER HEADS, EXISTING LIGHTING TRACK, EXISTING SMOKE DETECTORS, EXISTING DOWNLIGHTS, EXISTING SPEAKERS.
- D2. EXISTING PARTITION, DOOR, AND FRAME TO REMAIN.

DEMO LEGEND

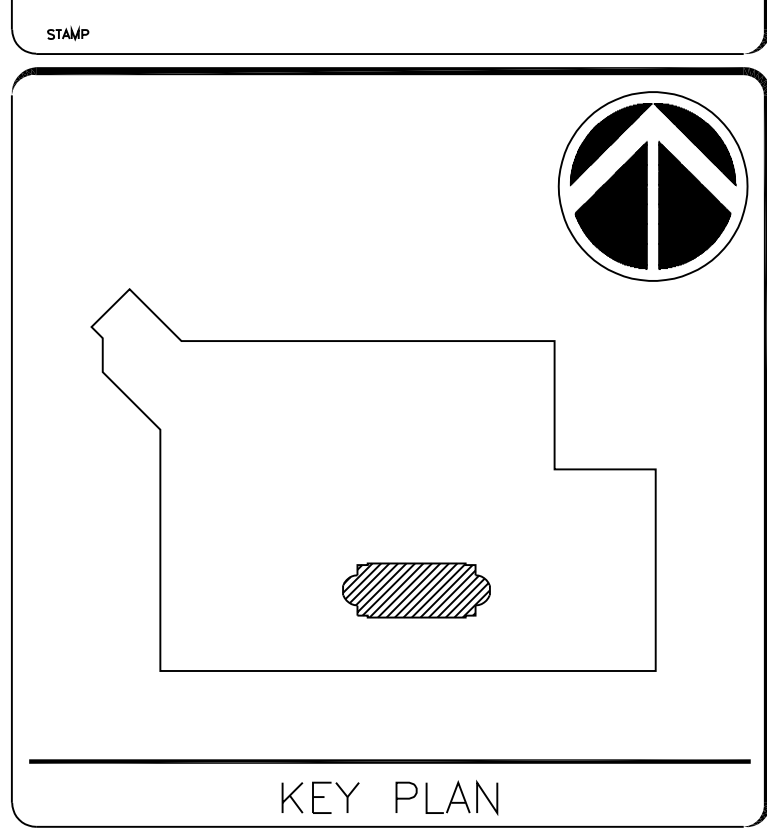
- INDICATES KEY NOTE ON THIS DRAWING.
- DEMOLITION WORK
- EXISTING WALL CONSTRUCTION TO REMAIN
- EXISTING SPRINKLER HEAD TO BE REMOVED
- EXISTING GYP CLG TO BE REMOVED
- EXISTING SPEAKER TO BE REMOVED
- EXISTING SMOKE DETECTOR TO BE REMOVED
- EXISTING DOWNLIGHT TO BE REMOVED
- EXISTING TRACK LIGHT TO BE REMOVED
- EXISTING CEILING MOUNTED PROJECTOR TO BE REMOVED

KEYNOTES

- 1. PROVIDE ACCESS PANELS, SEE DETAIL 8/A-501

NEW WORK LEGEND

- INDICATES KEY NOTE ON THIS DRAWING.
- CENTERLINE
- EXISTING WALL CONSTRUCTION TO REMAIN
- CONCEALED SPRINKLER HEAD, SEE FP DWGS.
- GYP CLG, MATCH EXISTING CLG HEIGHTS.
- EXISTING SPEAKER TO BE PAINTED & REINSTALLED
- FIRE ALARM DEVICE, SEE FA DWGS
- DOWNLIGHT, SEE ELEC DWGS.
- TRACK LIGHT, SEE ELEC DWGS.
- SOFFIT ACCESS PANEL LOCATION
- SMOKE DETECTOR, SEE FA DWGS.
- EXISTING RATED PARTITION TO REMAIN, MAINTAIN RATINGS WITH NEW WORK, NEW PENETRATIONS.



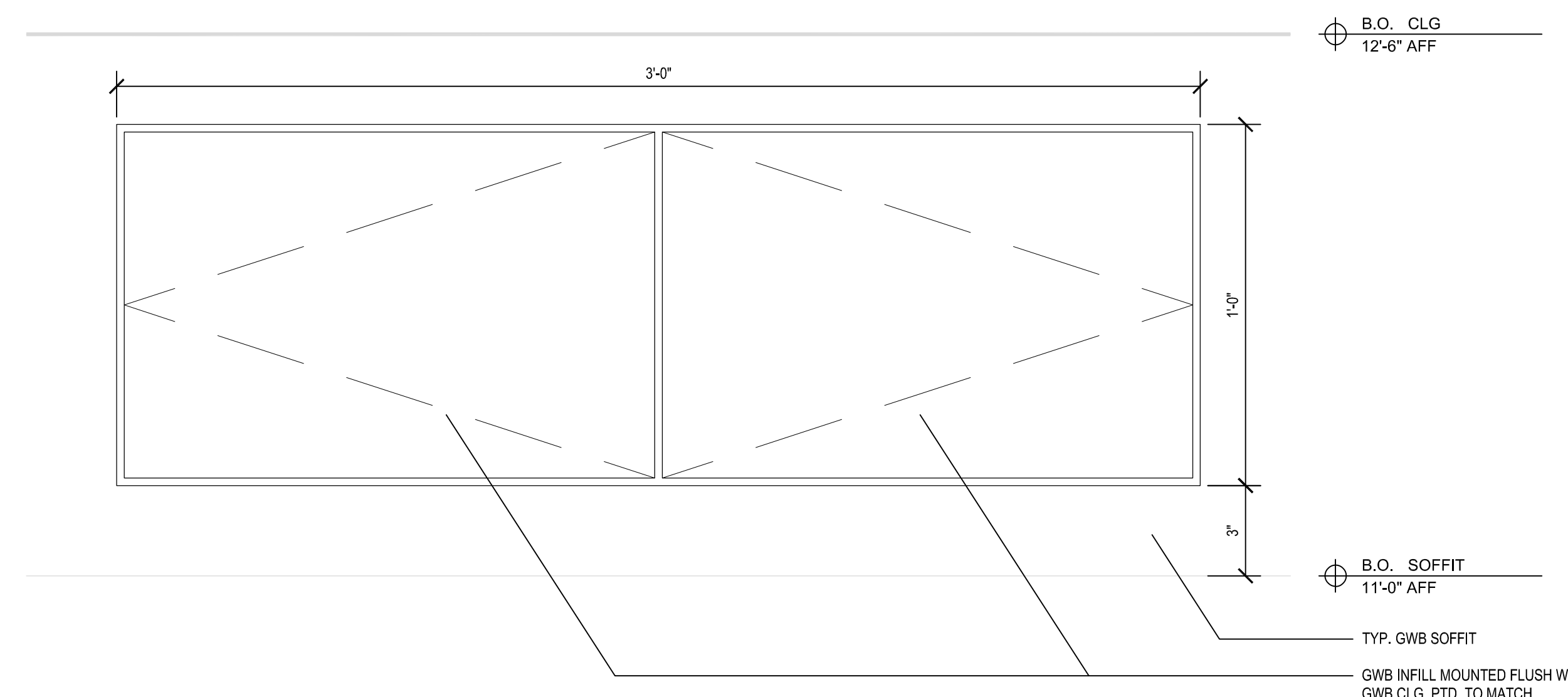
KEY PLAN

GRAPHIC SCALE(S)

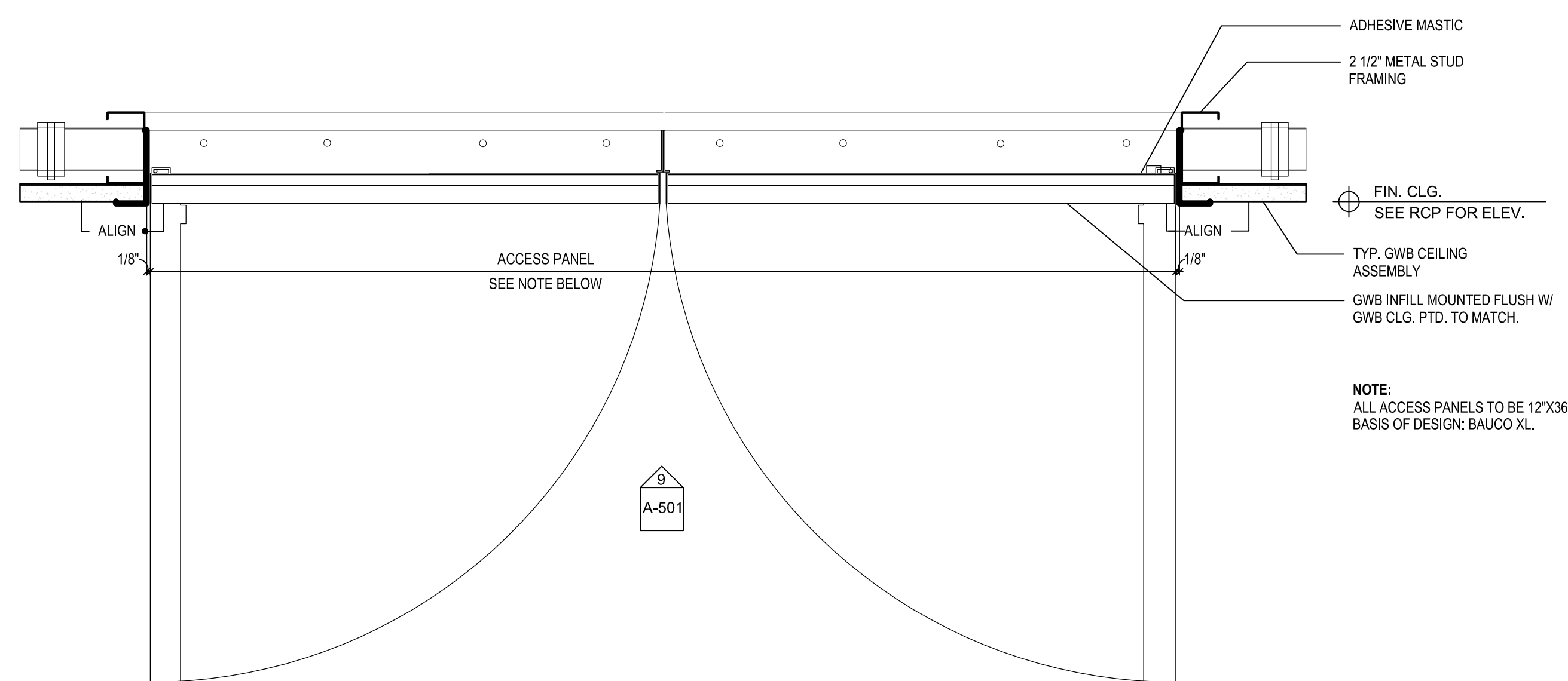
DATE	11/01/24	SUBMISSION	100% CD
REVISION 1		REVISION	
REVISION 2			
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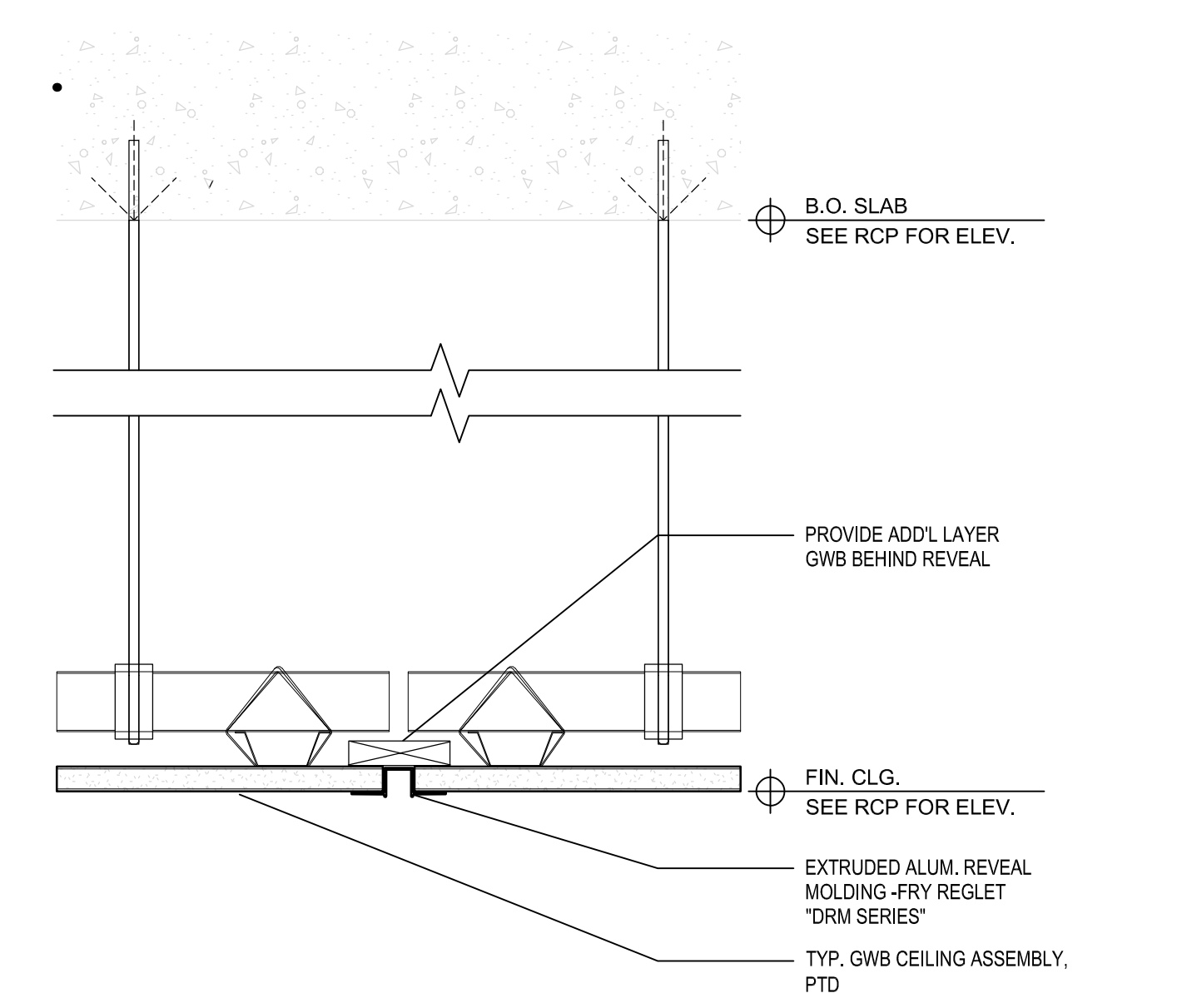
BUILDING NAME	INTERNATIONAL GALLERY
ADDRESS	1100 JEFFERSON DR SW WASHINGTON DC 20004
PROJECT TITLE	QUAD REPLACE TRACK LIGHTING AT INTL GALLERY
SF PROJECT NUMBER	2109103
A/E PROJECT NUMBER	55-23102-00
DRAWING TITLE	REFLECTED CEILING PLAN
DRAWING TYPE	RCP
WORKING STAFF	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
A-101	A RCP 101
	DISCIPLINE TYPE SEQUENCE



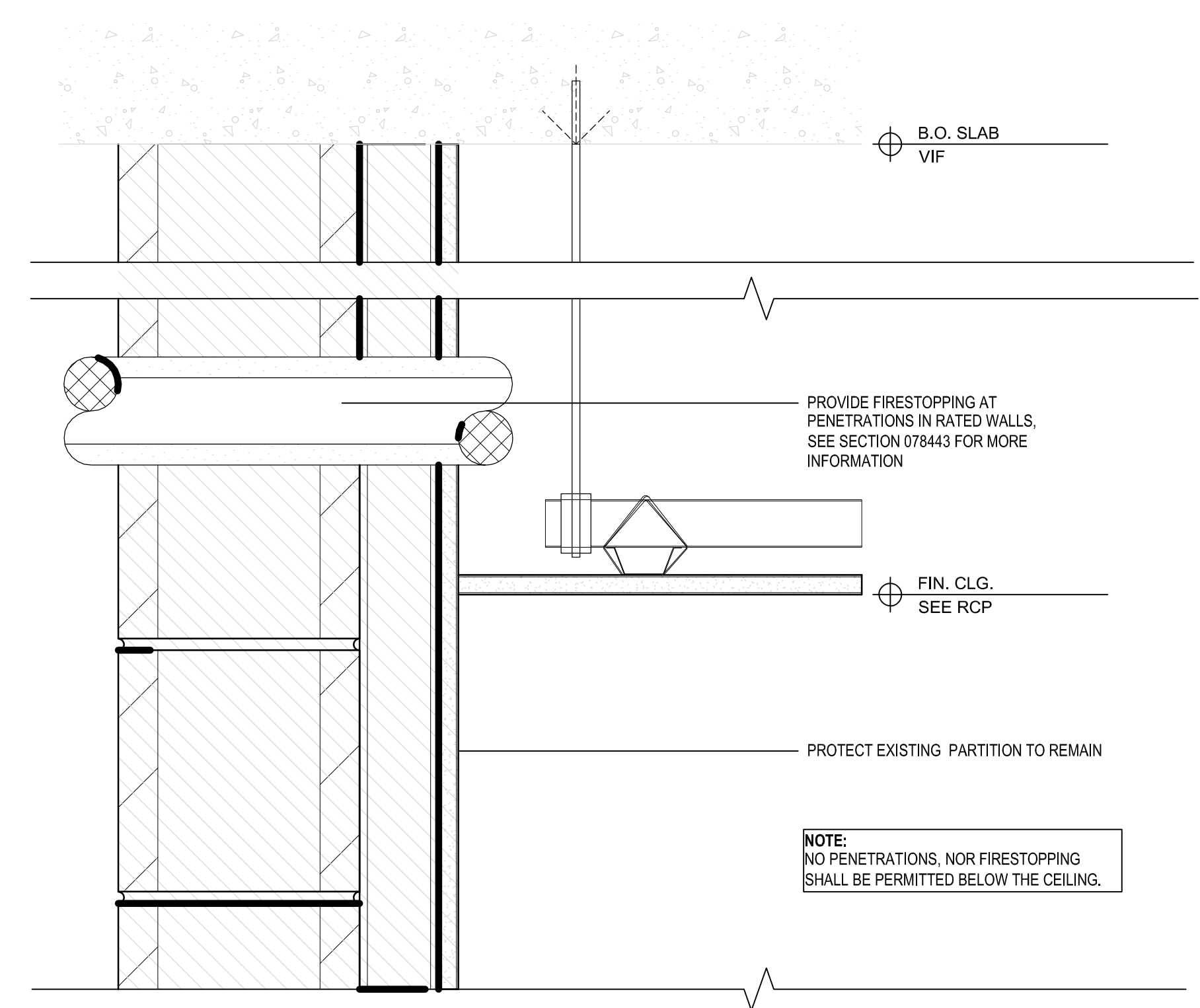
ELEVATION DETAIL
GYPSUM CEILING -ACCESS PANEL
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 A-501 SCALE:3"=1'-0"



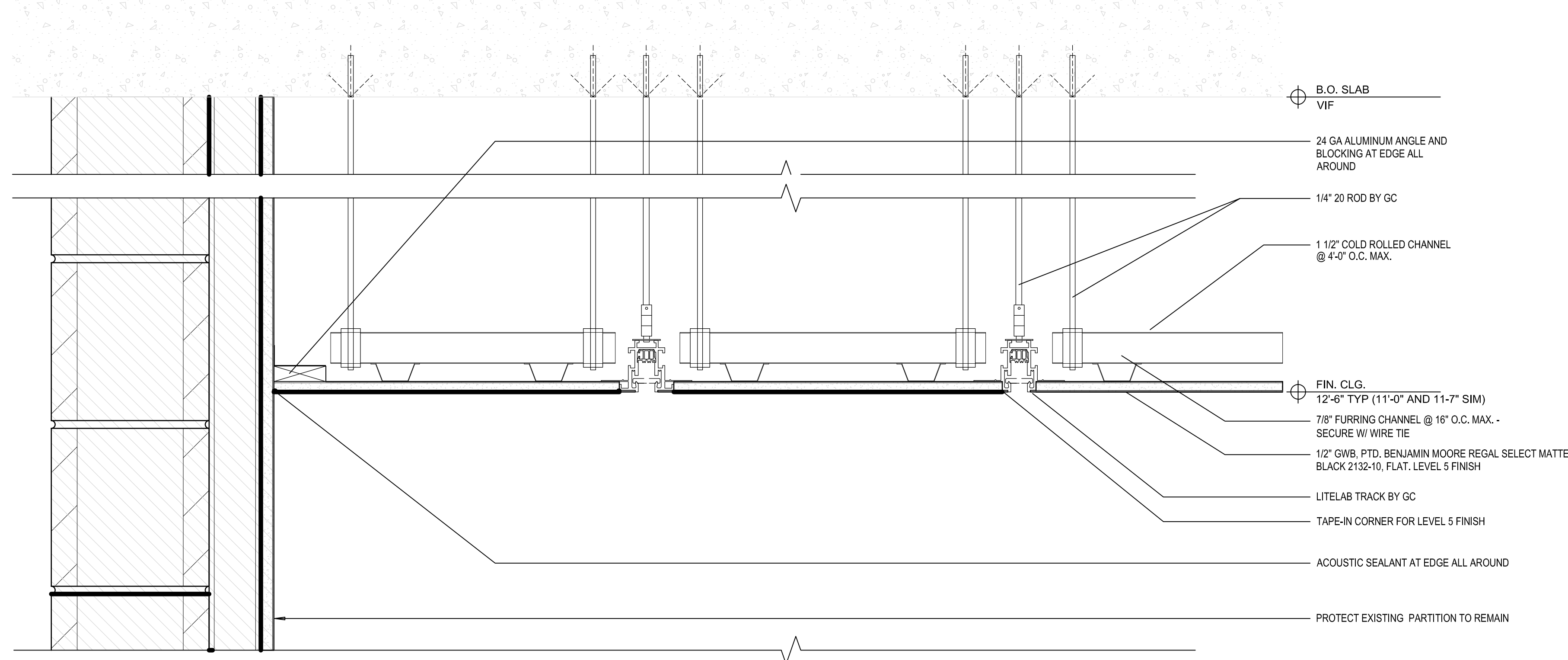
PLAN DETAIL
GYPSUM CEILING -ACCESS PANEL
 8
 A-501 SCALE:3"=1'-0"



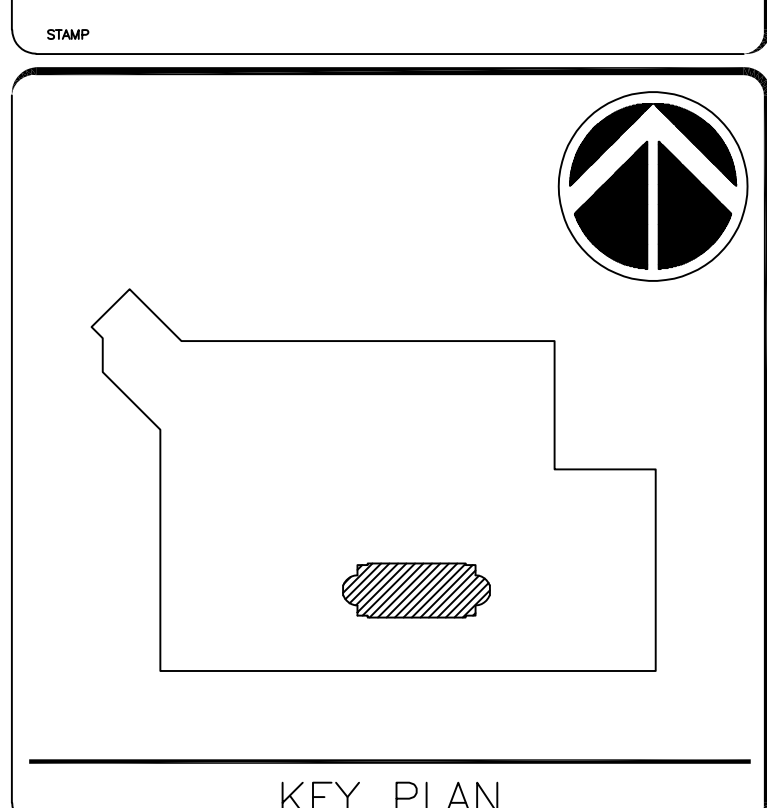
GYPSUM CEILING -CONTROL JOINT
 7
 A-501 SCALE:3"=1'-0"



TYPICAL FIRESTOPPING DETAIL
 7
 A-501 SCALE:3"=1'-0"



LOW CEILING TYPICAL DETAIL
 3
 A-501 SCALE:3"=1'-0"



KEY PLAN

GRAPHIC SCALE(S)

DATE	11/01/24	SUBMISSION	100% SUBMISSION
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PROJECT TITLE	QUAD REPLACE TRACK LIGHTING AT INTL GALLERY
SF PROJECT NUMBER	2109103
A/E PROJECT NUMBER	55-23102-00
DRAWING TITLE	DETAILS
DRAWING TYPE	GENERAL
WORKING STAFF	DESIGNED BY: --- DRAWN BY: --- CHECKED BY: ---
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	DISCIPLINE TYPE SEQUENCE

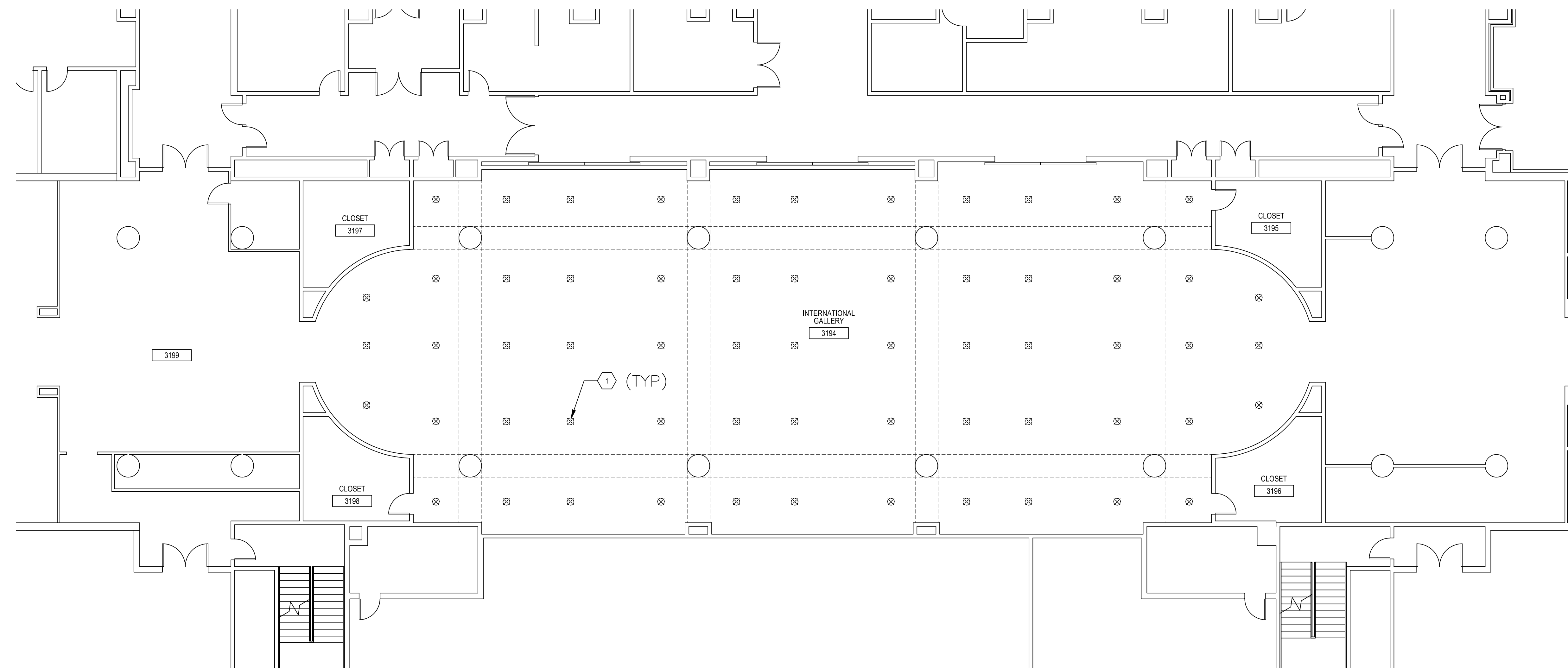
GENERAL NOTES

KEYNOTES

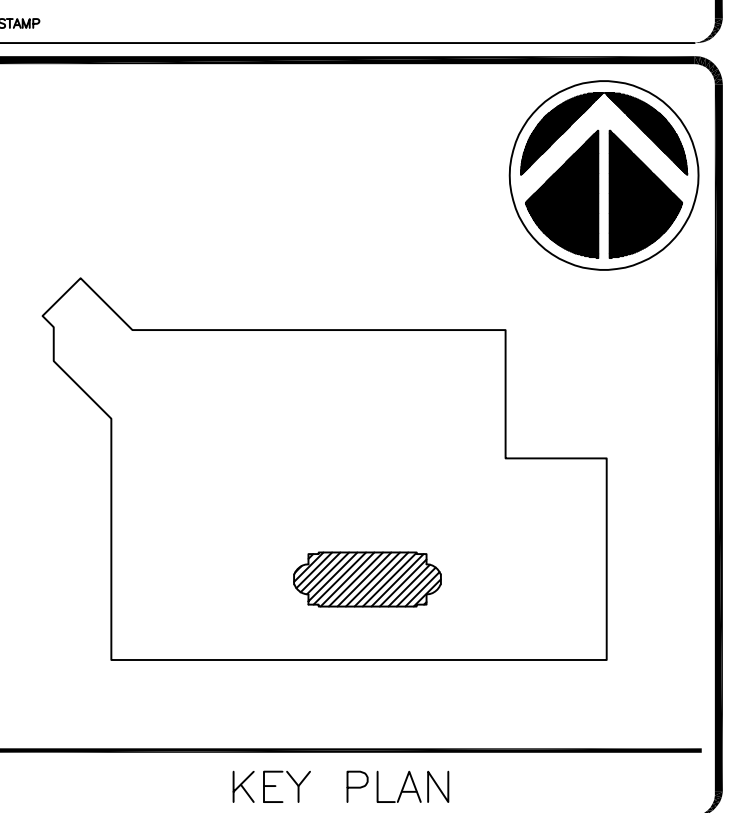
- 1. REMOVE EXISTING SPRINKLER HEADS IN THIS SPACE, TYP.

SYMBOL LEGEND

- ⊗ EXISTING SPRINKLER HEAD TO BE DEMOLISHED



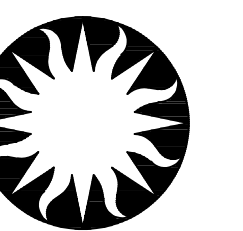
1 FIRE PROTECTION REFLECTED CEILING PLAN LEVEL 3 - DEMOLITION
 1/8" = 1' - 0"



KEY PLAN

GRAPHIC SCALE(S)

DATE	11/01/2024	SUBMISSION	100% CD
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SF PROJECT NUMBER	2109103
A/E PROJECT NUMBER	55-23102-00

DRAWING TITLE	FIRE PROTECTION DEMO
DRAWING TYPE	RCP
WORKING STAFF	
DESIGNED BY	
DRAWN BY	
CHECKED BY	

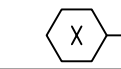
FP-100	LS	FP	100
	DISCIPLINE	TYPE	SEQUENCE

DATE: 11/01/2024

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE INSTALLATION OF SPRINKLERS WITH ALL CEILING DEVICES, INCLUDING LIGHTING TRACK AND ASSOCIATED FIXTURES. SUBMIT SHOP DRAWINGS SHOWING SPRINKLERS AND ALL CEILING DEVICES FOR REVIEW BY A/E AND OWNER PRIOR TO STARTING WORK.

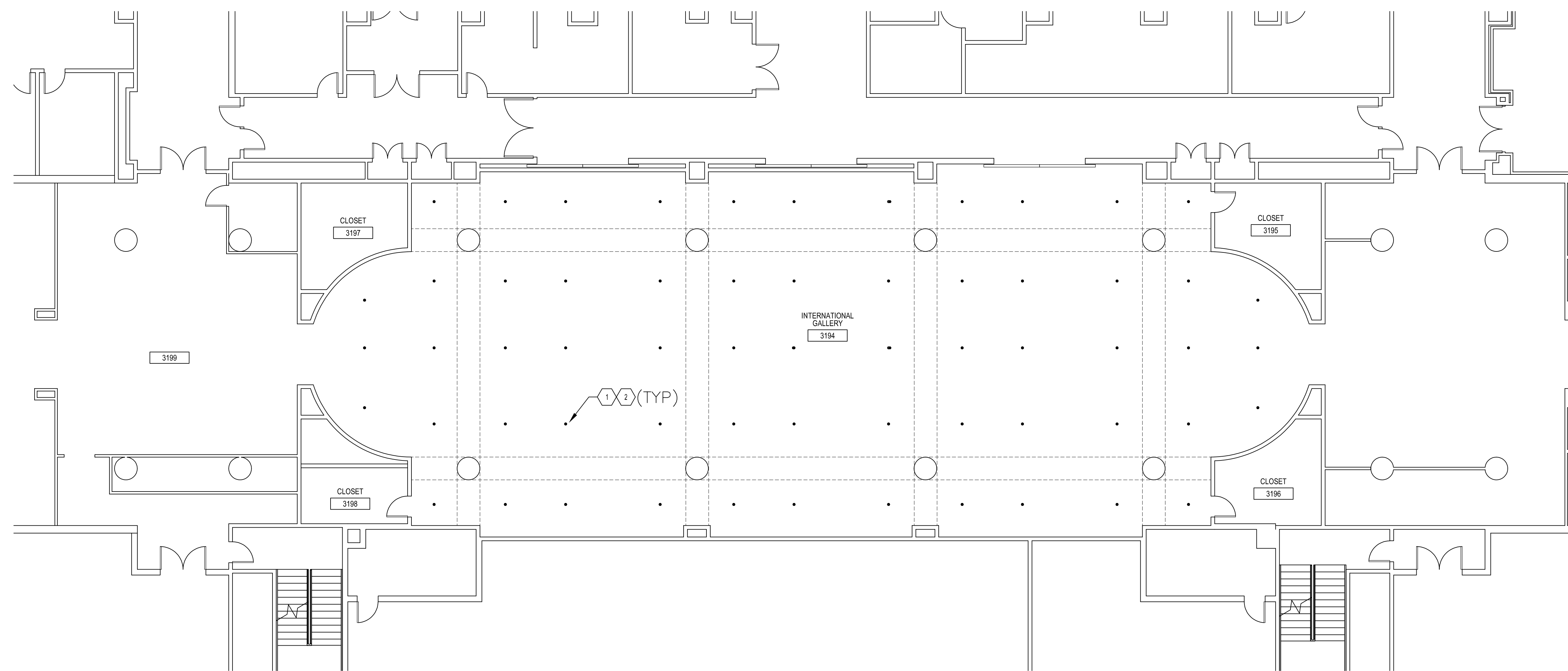
KEYNOTES



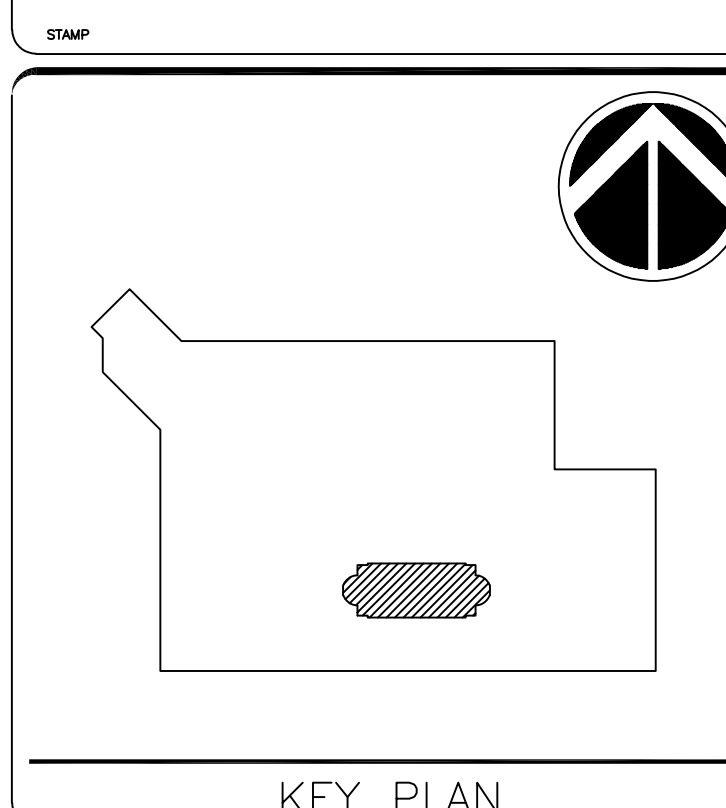
1. REPLACE EXISTING SPRINKLER HEADS AT EACH LOCATION WITH NEW CONCEALED TYPE SPRINKLER HEAD. CAP COLOR TO MATCH CEILING. COLOR BY ARCH. ADJUST SPRINKLER LOCATIONS TO AVOID CEILING DEVICES WHILE STAYING AS CLOSE AS POSSIBLE TO ORIGINAL LOCATION. CONNECT TO EXISTING SPRINKLER PIPING AND PROVIDE FLEX PIPE TO ACCOMMODATE NEW LOCATION AS REQUIRED. SPRINKLER HEADS SHOULD ALIGN WITH EACH OTHER.
 2. LOCATIONS OF SPRINKLER HEADS ARE SCHEMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR ENSURING SYSTEM COMPLIES WITH ALL CODES AND REQUIREMENTS. ALL OF THE AREA IN SCOPE IS ORDINARY HAZARD GROUP II. COORDINATE LOCATIONS OF SPRINKLER HEADS WITH LIGHTING TRACK LOCATIONS. PRIORITIZE LOCATING SPRINKLER HEADS MIDWAY BETWEEN RUNS OF TRACK.

SYMBOL LEGEND

● NEW CONCEALED SPRINKLER HEAD



1 FIRE PROTECTION REFLECTED CEILING PLAN LEVEL 3 - NEW WORK
 1/8" = 1' - 0"



GRAPHIC SCALE(S)

DATE	11/01/2024	SUBMISSION	100% CD
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A/E PROJECT NUMBER	55-23102-00	
DRAWING TITLE	FIRE PROTECTION PLAN	
DRAWING TYPE	RCP	
WORKING STAFF		
DESIGNED BY	LS	
DRAWN BY	FP	
CHECKED BY	101	
FP-101		
DISCIPLINE	TYPE	SEQUENCE

GENERAL NOTES

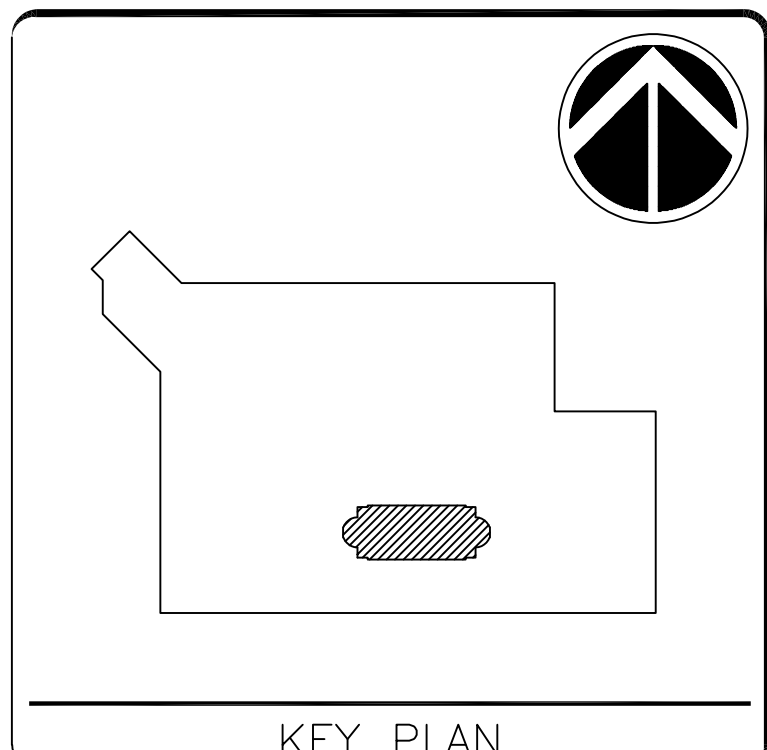
KEYNOTES

1. CONTRACTOR TO FIELD VERIFY, PRIOR TO DEMOLITION, THE EXISTING MECHANICAL CONDITIONS IN SOFFIT AND REPORT TO AE AND OWNER.
2. CONTRACTOR SHALL PERFORM A TEST AND BALANCE OF THE SYSTEM IN SCOPE AND RECORD AIRFLOWS AT EACH SUPPLY AND RETURN GRILLE PRIOR TO DEMO. SUBMIT PRE-DEM TAB REPORT TO AE AND COTR.
3. REMOVE EXISTING LINEAR GRILLE AT SOFFIT. DISCONNECT FROM EXISTING PLENUM BOX. PLENUM BOX TO REMAIN.
4. DEMOLISH EXISTING SUPPLY GRILLES.
5. DEMOLISH EXISTING RETURN GRILLES.

SYMBOL LEGEND

- EXISTING GRILLE TO BE DEMOLISHED
- NEW GRILLE

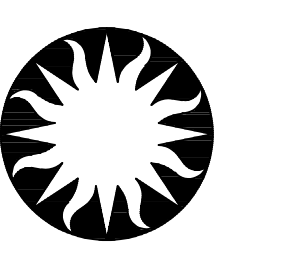
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KEY PLAN

GRAPHIC SCALE(S)

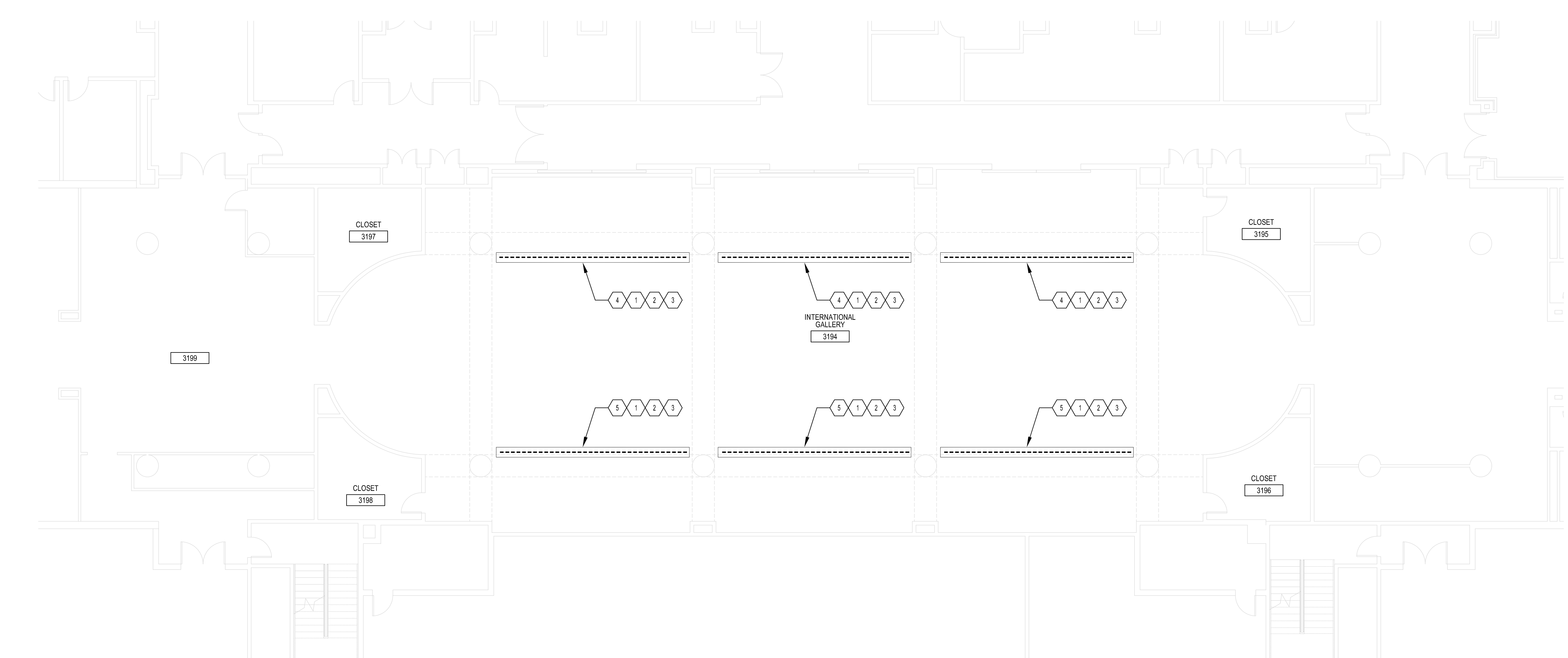
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DRAWING TITLE	MECHANICAL DEMO PLAN
DRAWING TYPE	RCP
DESIGNED BY	
DRAWN BY	
CHECKED BY	
M-100	M MP 100
	DISCIPLINE TYPE SEQUENCE



1 MECHANICAL REFLECTED CEILING PLAN LEVEL 3 - DEMOLITION
1/8" = 1' - 0"

GENERAL NOTES

KEYNOTES

- CONNECT NEW GRILLE TO EXISTING PLENUM AND ASSOCIATED DUCTWORK TO MATCH THE EXISTING CONDITION. CLEAN PLENUM AND DUCTWORK PRIOR TO RECONNECTION.
- BALANCE GRILLE TO VALUE MEASURED DURING PRE-DEMO TEST AND BALANCE.

SYMBOL LEGEND

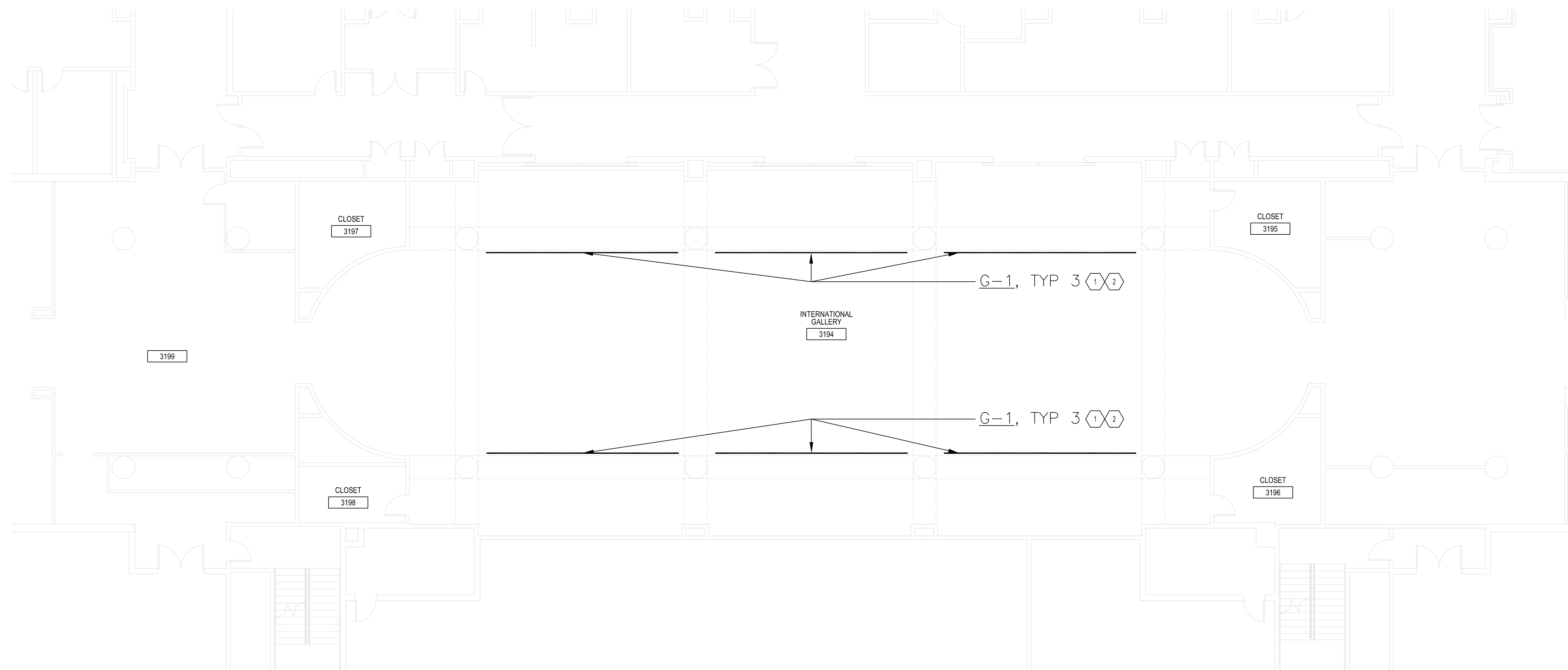
- EXISTING GRILLE TO BE DEMOLISHED
- NEW GRILLE

LINEAR BAR GRILLE SCHEDULE

NOTES:

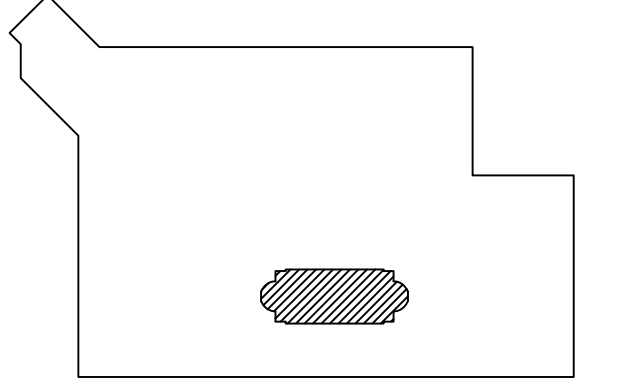
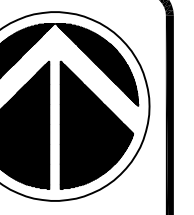
- GRILLE SHALL BE FACTORY PRIMED FOR FIELD PAINTING. PAINT GRILLE TO MATCH CEILING. COLOR BY ARCH.
- PROVIDE CONCEALED BRACKET TYPE FASTENING.
- PROVIDE WITH INTEGRAL VOLUME DAMPER.

ID	AIR	TYPE	FINISH	FRAME/BORDER TYPE	NECK SIZE	HEIGHT (IN)	LENGTH (FT)	CORE TYPE	MANUFACTURER	MODEL	NOTES
G-1	SUPPLY	LINEAR BAR GRILLE	PC12	FLANGED, 3/4"	FLANGED, 3/4"	4	26	16B	PRICE	LPB-16B	1-3



1
M-100
MECHANICAL REFLECTED CEILING PLAN LEVEL 3 – NEW WORK
1/8" = 1' - 0"

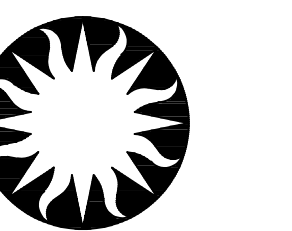
STAMP



KEY PLAN

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DATE	SUBMISSION
11/01/2024	100% CD
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PROJECT TITLE: QUAD REPLACE TRACK LIGHTING AT INTL GALLERY
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A/E PROJECT NUMBER: 55-23102-00

DRAWING TITLE: MECHANICAL PLAN
DRAWING TYPE: RCP

DESIGNED BY: _____ DRAWN BY: _____ CHECKED BY: _____
WORKING STAFF

M-100 M MP 101
DISCIPLINE TYPE SEQUENCE

DATE PLOTTED: 11/01/2024 10:00 AM

ELECTRICAL SYMBOLS

POWER

- ⊕ SYSTEM GROUND ELECTRODE
- ⊖ LOW VOLTAGE PUSH-BUTTON FOR EXISTING LIGHTING FIXTURE
- ⊖ FLUSH SWITCH BOX, SEE AS REQUIRED
- BRANCH CIRCUIT HOMERUN TO THE RECIPIENT
FIXTURE, SEE COMMENTS IN WALL OR ABOVE CEILING AS DETERMINED BY LINE TYPE AND KEY TO PANEL AND CIRCUIT NUMBER AS INDICATED BY DEFAULT. PROVIDE ANALOGIC AND ADDRESS INFORMATION FOR ALL RECIPIENTS. IN CASE THE INFORMATION ALL RECIPIENTS IS INT TO CONTAIN SEPARATE EQUIPMENT INCLUDING CONDUCTORS.
- TRANSFORMER
- BRANCH CIRCUIT PANEL BOARD, 200/125V
- BRANCH CIRCUIT PANEL BOARD, 60/30/15V
- EQUIPMENT CABINET, AS NOTED

NOTES

- TOUCH SCREEN LIGHTING CONTROL STATION
- TRACK LIGHTING FIXTURE, SEE PER FIXTURE SCHEDULE
- EXIT SIGNAL, CEILING MOUNTED, DIRECTIONAL, ARROW AS INDICATED

RECEPTACLES

- DUPLEX RECEPTACLE
- QUADRUPLER RECEPTACLE
- DUPLEX RECEPTACLE, FLUSH IN CEILING

FIRE ALARM

- FIRE ALARM APPLIANCE WITH AUDIO AND VISUAL WARNINGS
- FIRE ALARM APPLIANCE WITH VISUAL WARNING, BELL ONLY
- SMOKE DETECTOR, PHOTOELECTRIC TYPE

DISCONNECT

- CIRCUIT BREAKER DISCONNECT
- CIRCUIT BREAKER DISCONNECT, SHUNT TRIP
- DISCONNECT SWITCH-FUSIBLE
- BUS CONNECTION
- CONNECTION LOSS
- OPENING
- TRANSFORMER
- FEDER IDENTIFICATION TAG
- BRANCH CIRCUIT PANELBOARD

ELECTRICAL ABBREVIATIONS

(E)	EXISTING
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
MCB	MAIN CIRCUIT BREAKER
MFS	MAIN FUSED SWITCH
(TYP)	TYPICAL

NOTES

- GENERAL:**
- MODIFICATIONS TO EXISTING POWER DISTRIBUTION EQUIPMENT, MATCH EXISTING BREAKER RATINGS AND KVAIC RATINGS ON ALL INSTALLED DEVICES.
 - EXISTING PANEL DIRECTORIES AT PANELS AFFECTED BY WORK, PROVIDE UPDATED TYPED PANEL DIRECTORY. CONSULT OWNER FOR INPUT ON LABELING OF ALL EXISTING CIRCUITS.
 - PROVIDE INSTALLATION TO COMPLY WITH 2021 NFPA 70 REQUIREMENTS, AND OCTOBER 2021 SMITHSONIAN DESIGN STANDARDS.
 - ALL CONDUCTORS AND BUSSES SHALL BE COPPER.
 - BRANCH CIRCUIT BASIS OF DESIGN IS TO RUN CONDUCTORS IN EMT CONDUIT WITH 6' MAXIMUM WHIP LENGTH FROM JUNCTION BOX TO LIGHTING FIXTURE POSITION. MC CABLE FOR OVERALL BRANCH CIRCUIT LENGTH IS NOT PERMITTED.

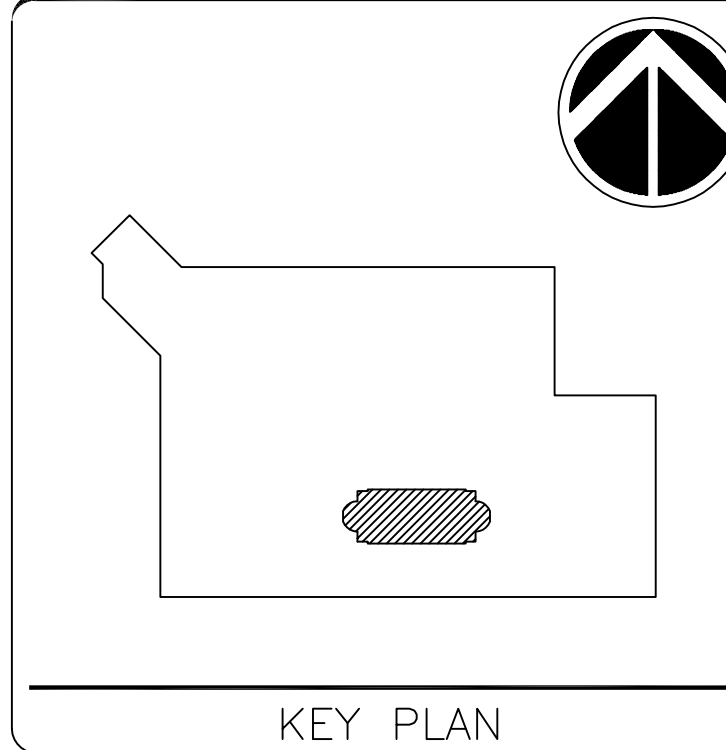
- LIGHTING:**
- SEE LIGHT FIXTURE SCHEDULE AND SYMBOLS LEGEND FOR MOUNTING HEIGHTS, UNLESS NOTED OTHERWISE.
 - FIXTURES DEMOTED WITH LOWER CASE LETTERS SHALL BE CONTROLLED TOGETHER.

- GENERAL DEMOLITION NOTES:**
- ITEMS INDICATED ON DEMOLITION PLANS ARE BASED ON AS-BUILT DRAWINGS AND FIELD OBSERVATIONS AND ARE INTENDED TO GIVE THE BIDDER A GENERAL REPRESENTATION OF EXISTING CONDITIONS.
 - REMOVE ALL ITEMS SHOWN FULL-TONE OR NOTED ELSEWHERE IN THE DOCUMENTS TO BE REMOVED OR DEMOLISHED. DEMOLISH ADDITIONAL ITEMS NOT SHOWN ON DRAWINGS, BUT WHICH MUST BE REMOVED TO COMPLETE THE PROJECT.
 - ITEMS SHOWN HALF-TONE ARE EXISTING TO REMAIN.
 - EXISTING CONDUIT MAY REMAIN IF ALL THE FOLLOWING ARE TRUE:
 - IT CAN BE REUSED TO FEED DEVICES INSTALLED UNDER THIS CONTRACT.
 - IT DOES NOT INTERFERE WITH OTHER TRADES.
 - IT WAS ORIGINALLY INSTALLED MEETING SPECIFICATIONS RELATED TO THIS PROJECT.
 - IT WILL NOT BE EXPOSED IN A FINISHED AREA (UNLESS NOTED OTHERWISE).
 - PROVIDE ELECTRICAL DEMOLITION ASSOCIATED WITH MECHANICAL EQUIPMENT TO BE REMOVED. IN ADDITION TO DEVICES SHOWN, REFER TO MECHANICAL AND ARCHITECTURAL DEMOLITION SHEETS TO DETERMINE EQUIPMENT TO BE REMOVED.
 - MAINTAIN FUNCTIONALITY OF ALL EXISTING LOW VOLTAGE SYSTEMS INCLUDING, BUT NOT LIMITED TO, TELECOM CABLES NETWORKS, INTERCOM, CLOCKS, FIRE ALARM, SAFETY AND SECURITY DURING ALL PHASES OF CONSTRUCTION. PROVIDE TEMPORARY INTERCONNECTIONS AS REQUIRED TO ACCOMMODATE CONSTRUCTION SCHEDULE.
 - WHERE CIRCUITS ARE INDICATED TO BE DEMOLISHED, ALL WIRING WILL BE REMOVED BACK TO THE SOURCE. NO WIRING WILL BE ABANDONED IN PLACE WITHOUT THE EXPRESS CONSENT OF THE OWNER.

ELECTRICAL DRAWING LIST

E001	ELECTRICAL COVER SHEET
E100	LIGHTING NEW WORK RCP LEVEL 3
E101	EMERGENCY LIGHTING PHOTOMETRIC PLAN
E200	POWER NEW WORK PLAN LEVEL 3
E300	FIRE ALARM NEW WORK PLAN LEVEL 3
E500	ELECTRICAL DETAILS
E600	ELECTRICAL ONE LINE DIAGRAM
E700	ELECTRICAL SCHEDULES
E701	LIGHTING RELAY SCHEDULE/RISER

STAMP



KEY PLAN

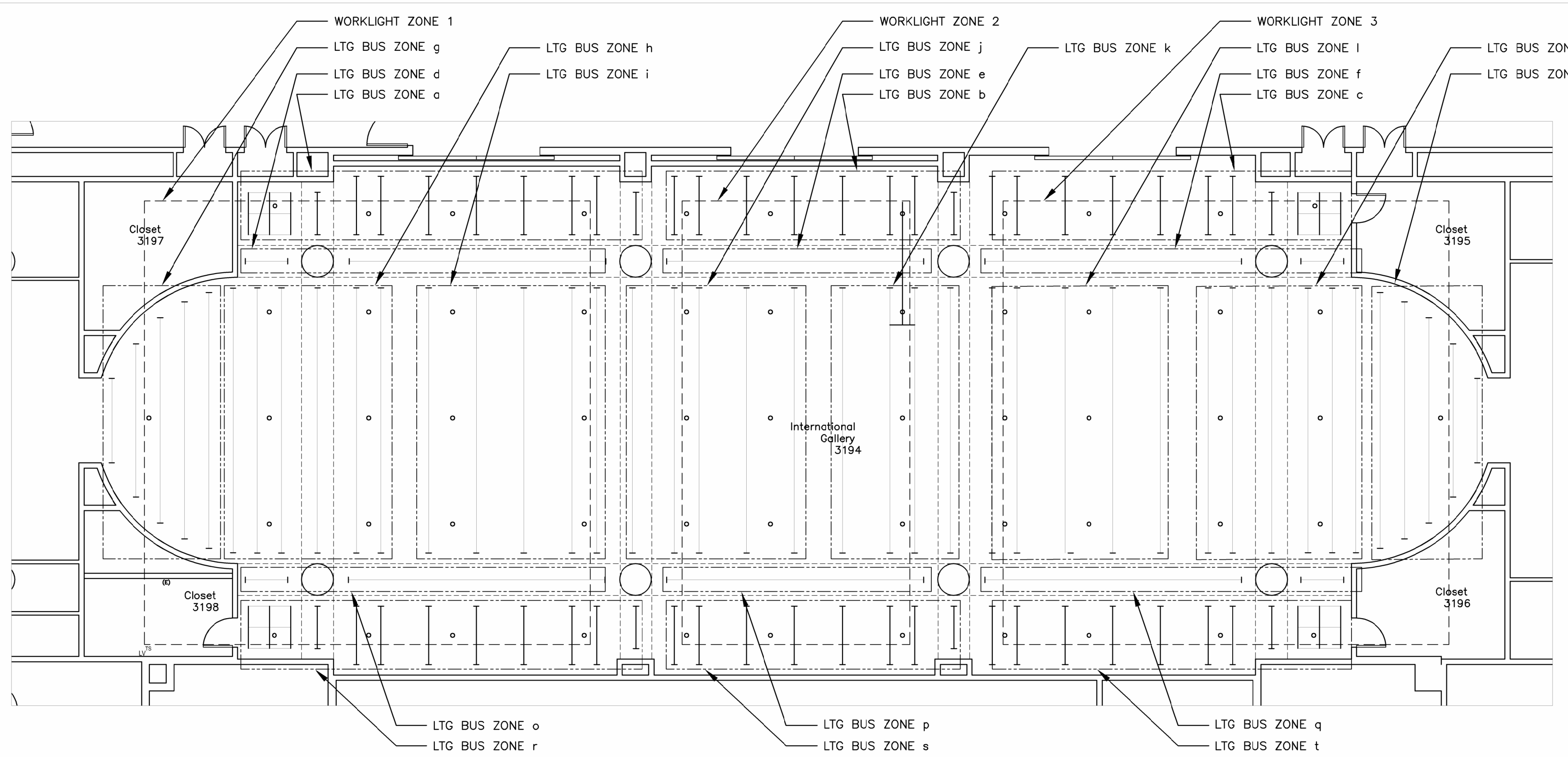
GRAPHIC SCALE(S)

DATE	05/07/2024	SUBMISSION	100% CD
REVISION		REVISION	
REVISION 1			
REVISION 2			
REVISION 3			
REVISION 4			
REVISION 5			
REVISION 6			
REVISION 7			

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BUILDING NAME	INTERNATIONAL GALLERY		
ADDRESS	1100 JEFFERSON DR SW WASHINGTON DC 20004		
PROJECT TITLE	QUAD REPLACE TRACK LIGHTING AT INTL GALLERY		
SF PROJECT NUMBER	2109103		
A/E PROJECT NUMBER	55-23102-00		
DRAWING TITLE	COVER_SHEET		
DRAWING TYPE	G		
WORKING STAFF			
DESIGNED BY			
DRAWN BY			
CHECKED BY			
E-001	E	G	001
_OF_9	DISCIPLINE	TYPE	SEQUENCE

DATE: 05/07/24



2
E-100
LIGHTING CONTROL ZONE KEY PLAN
1/8" = 1' - 0"

LIGHTING CONTROL INTENT NARRATIVE:

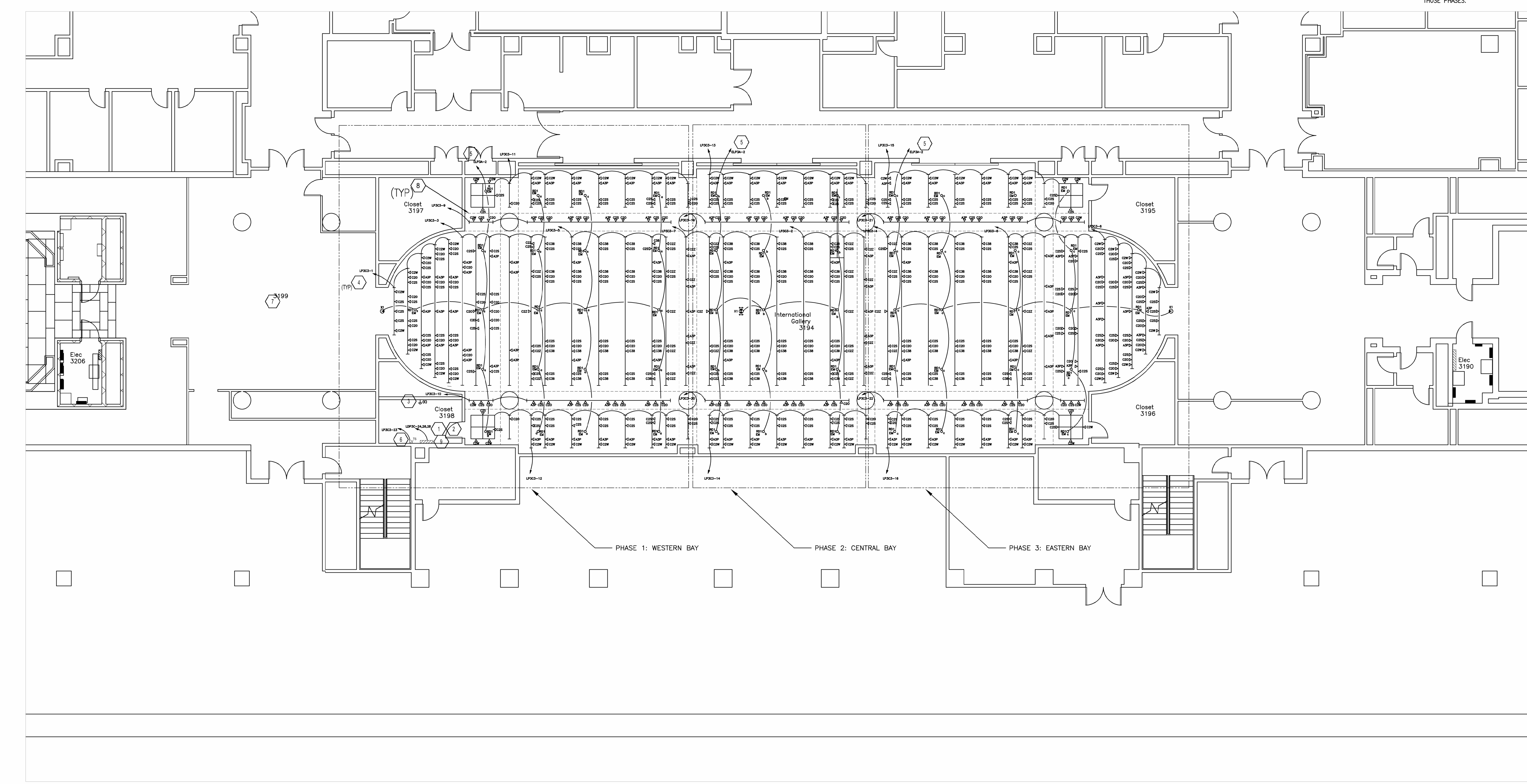
1. TRACK HEADS CONNECTED TO LIGHTING BUS CONTAIN INTEGRAL MANUAL DIMMING FUNCTIONALITY. DIMMING OF EACH LUMINAIRE TO BE ADJUSTED MANUALLY AT EACH LUMINAIRE.
2. LIGHTING BUS TO OPERATE IN ON/OFF FASHION.
3. DOWNLIGHTS ARE DIMMED WITH ON/OFF CONTROL AND WILL BE USED FOR MAINTENANCE AND SETUP OPERATIONS. PRESET OUTPUT LEVELS PROGRAMMED INTO TOUCHSCREEN CONTROL AT 0%(OFF), 5%, 15%, 50% AND 80% OUTPUT.
4. TOUCHSCREEN CONTROL STATION LOCATED IN SECURE LOCATION TO OPERATE ENTIRE SPACE, WITH CAPABILITY VIA PROGRAMMING TO SEPARATE SPACES TO ACCOUNT FOR POTENTIAL USE OF FULL HEIGHT WALLS DURING EXHIBITS.
5. TIMELOCK FUNCTIONALITY SHALL BE PROVIDED TO ALLOW FOR SCHEDULED SWEEP OF LIGHTS ON NORMAL AND EMERGENCY CIRCUITS TO "OFF", WITH CAPABILITY TO OVERRIDE TO "ON" MANUALLY.
6. NEW LIGHTING CONTROL SYSTEM SHALL BE COMPRISED OF FEED THROUGH RELAY CABINETS WITH MULTIZONE CONTROL MODULES CAPABLE OF ON/OFF CONTROL, OR ON/OFF WITH 0-10V DIMMING CONTROL. PROVIDE SEPARATE CABINET FOR NORMAL AND EMERGENCY LIGHTING CONTROL UNLESS SYSTEM IS CAPABLE OF IMPLEMENTING BARRIERS BETWEEN NORMAL AND EMERGENCY POWER IN THE SAME PANEL AND IS LISTED FOR THIS PURPOSE. PROVIDE UL924 LISTED OVERRIDE IN EMERGENCY CABINET TO AUTOMATICALLY ILLUMINATE LIGHTING ON EMERGENCY CIRCUIT AT FULL OUTPUT UPON LOSS OF POWER OR SIGNAL FROM FIRE ALARM SYSTEM.
7. NOTE: POWER TO BRANCH PANELS THAT CONTAIN LIGHTING CIRCUITS IN AREA OF SCOPE AND AREAS OUTSIDE OF SCOPE IS CONTROLLED BY "ASCO" BRAND REMOTE CONTROL SWITCHES THAT ARE CONTROLLED BY "RESET" PUSHBUTTONS LOCATED IN ROOM 3196. RESET BUTTON IS TO REMAIN IN ROOM 3198. THE REMOTE CONTROL SWITCH AHEAD OF PANEL LP3C3 WILL BE DEMOLISHED.
8. NOTE: (2) LIGHTING CIRCUITS FEEDING LIGHTING CONTROL ZONES IN ROOM 3199 WILL BE CONTROLLED BY NEW LIGHTING CONTROL RELAY PANEL. EXISTING LUMINAIRES AND CONTROL ZONE LAYOUT IN ROOM 3199 TO REMAIN AS EXISTING. SEE RELAY PANEL SCHEDULE FOR REFERENCE TO CONTROL ZONES IN ROOM 3199.
9. PROVIDE CONNECTION TO BUILDING AUTOMATION SYSTEM (BAS) TO ALLOW FOR MANUAL AND AUTOMATIC CONTROL OF LIGHTING CONTROL RELAY PANEL.
10. SEE SHEET E-603 FOR LIGHTING CONTROL RISER AND RELAY PANEL SCHEDULE.
11. BASIS OF DESIGN IS COOPER LIGHTING INTELLIGENT LIGHTING CONTROLS (LIC) LL40-EM SERIES. LIGHTING CONTROL SYSTEM WILL ALLOW FOR OWNER TO REVISE THE PROGRAMMED SETTINGS OF THE LIGHTING CONTROLS PER LIGHTING CONTROL ZONE.

GENERAL NOTES

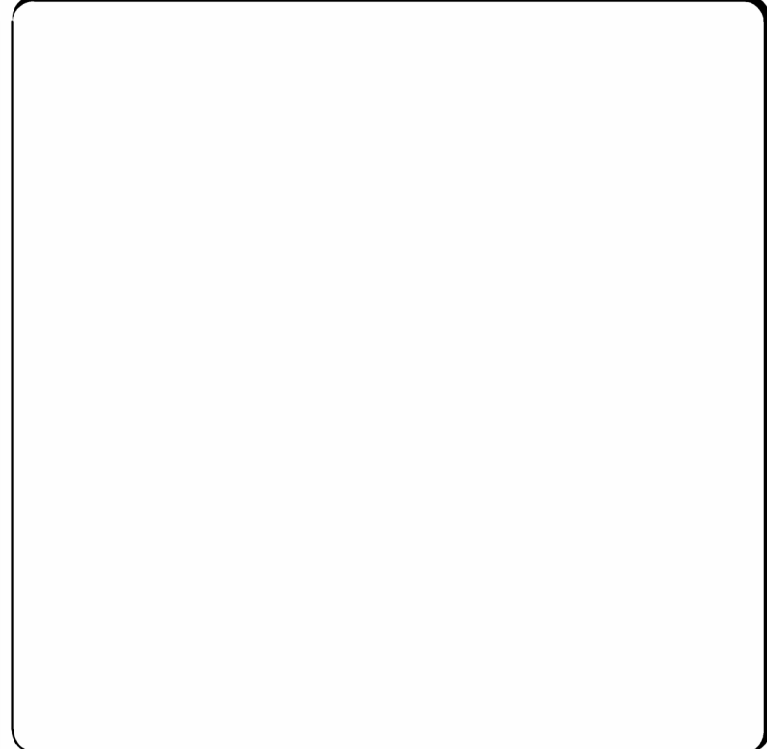
- A. SUPPORT ALL LIGHTING BUS TO STRUCTURE. WHERE EXISTING DUCTWORK OR OTHER TRADES CONFLICT WITH DIRECT PATH TO STRUCTURE, PROVIDE SUPPORT TO INDEPENDENT FRAMING THAT IS SUPPORTED FROM STRUCTURE.
- B. PROCUREMENT AND TESTING OF TRACK HEADS IS COVERED UNDER BID OPTION 1. REFER TO LUMINAIRE SCHEDULES FOR QUANTITY OF EACH LUMINAIRE TYPE, AND WHICH TYPES ARE INCLUDED IN BASE BID. SEE GENERAL NOTES ON BID OPTION 1 LUMINAIRE SCHEDULE FOR TRACK HEAD TESTING REQUIREMENTS.
- C. SEE PHASE OUTLINES ON PLAN. ORDER OF PHASING AS FOLLOWS:
PHASE 1: WESTERN BAY
PHASE 2: CENTRAL BAY
PHASE 3: EASTERN BAY

KEYNOTES

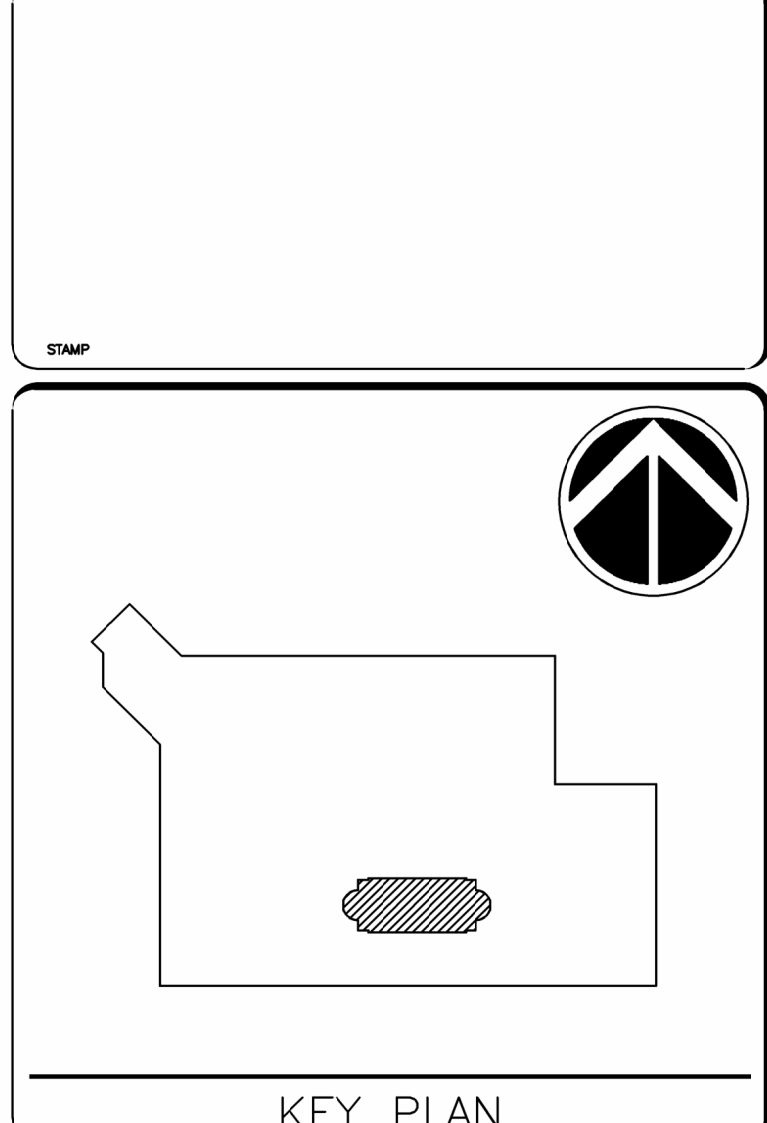
1. DEMOLISH EXISTING SURFACE MOUNTED NORMAL AND EMERGENCY DIMMING PANELS. DEMOLISH NORMAL POWER CIRCUITS TO BRANCH PANEL. DEMOLISH EMERGENCY CIRCUIT ELDP3B-5 BACK TO PANEL ELDP3B. RETAIN EMERGENCY CIRCUIT ELDP3A-2 TO PROVIDE POWER TO NEW EM LIGHTING IN INTERNATIONAL GALLERY 3194 (ROUTED THROUGH NEW RELAY CABINET).
2. INSTALL NEW FEED THROUGH LIGHTING CONTROL RELAY PANEL IN LOCATION PREVIOUSLY OCCUPIED BY DEMOLISHED DIMMING PANELS. HOMERUN INDICATES CIRCUITING TO NORMAL POWER SENSE FOR UL924 EM RELAYS. SEE HOMERUNS IN PLAN FOR LIGHTING POWER CIRCUITS. ROUTE LIGHTING POWER CIRCUITS THROUGH NEW FEED-THROUGH LIGHTING CONTROL RELAY PANEL LCPT.
3. RETAIN EXISTING "RESET" PUSHBUTTON FOR CONTROL OF ASCO REMOTE CONTROL SWITCHES LOCATED IN ELECTRICAL CLOSETS.
4. ROUTE HOMERUN FOR LIGHTING BUS THROUGH LIGHTING CONTROL RELAY PANEL LCPT1. PROVIDE DEDICATED NEUTRAL FOR EACH CIRCUIT.
5. UTILIZE EXISTING EMERGENCY BRANCH CIRCUIT FOR NEW EMERGENCY LUMINAIRES. CONFIRM EXISTING BRANCH CIRCUIT AND UPDATE PANEL SCHEDULE IF CIRCUIT VARIES FROM THE ONE SHOWN. NOTE: ONE BRANCH CIRCUIT IS USED FOR EMERGENCY LIGHTING IN ROOM 3194, DIVIDED INTO (3) CONTROL ZONES. ROUTE EMERGENCY CIRCUIT THROUGH LIGHTING CONTROL RELAY PANEL LCPT.
6. TOUCHSCREEN CONTROL STATION FOR INTERNATIONAL GALLERY SPACE 3194. MOUNT IN SURFACE MOUNTED JUNCTION BOX. HOMERUN IS FOR TOUCHSCREEN POWER.
7. EXISTING LIGHTING IN AND CIRCUITS IN VESTIBULE TO REMAIN. RE-ROUTE EXISTING CIRCUITS LP3C3-17 AND LP3C3-19 THROUGH NEW LIGHTING CONTROL RELAY PANEL IN ROOM 3198.
8. SOFFIT ENCLOSURE OUTLINE.
9. NEW LIGHTING RELAY PANEL REFERENCED IN KEYED NOTE 2 WILL BE INSTALLED IN THE FIRST PHASE OF CONSTRUCTION, THE WESTERN BAY, TO ALLOW LIGHTING CONTROL IN CENTRAL AND EASTERN BAYS TO REMAIN OPERATIONAL DURING THE FIRST PHASE. TEMPORARILY ROUTE EXISTING CIRCUITS FEEDING LIGHTING IN THOSE BAYS THROUGH NEW RELAY PANEL. REPLACE EXISTING CIRCUITS FEEDING CENTRAL AND EASTERN BAYS WITH NEW CIRCUITS, ROUTED THROUGH THE NEW RELAY PANEL DURING CONSTRUCTION OF THOSE PHASES.



1
E-100
LIGHTING PLAN LEVEL 3 - NEW WORK
1/8" = 1' - 0"



KEY PLAN



GRAPHIC SCALE(S)

DATE	11/01/2024
SUBMISSION	100% CD
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REVISION 7	

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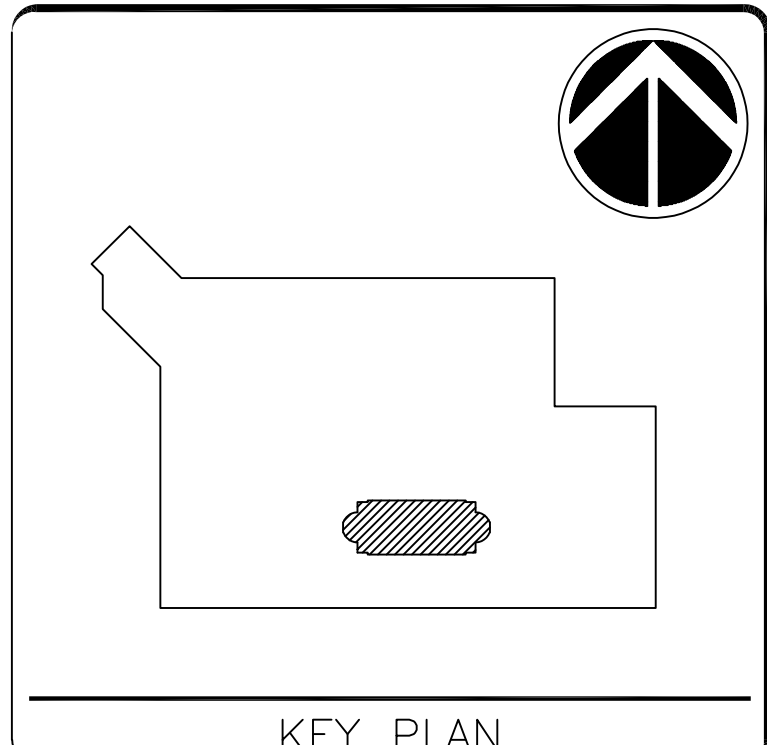
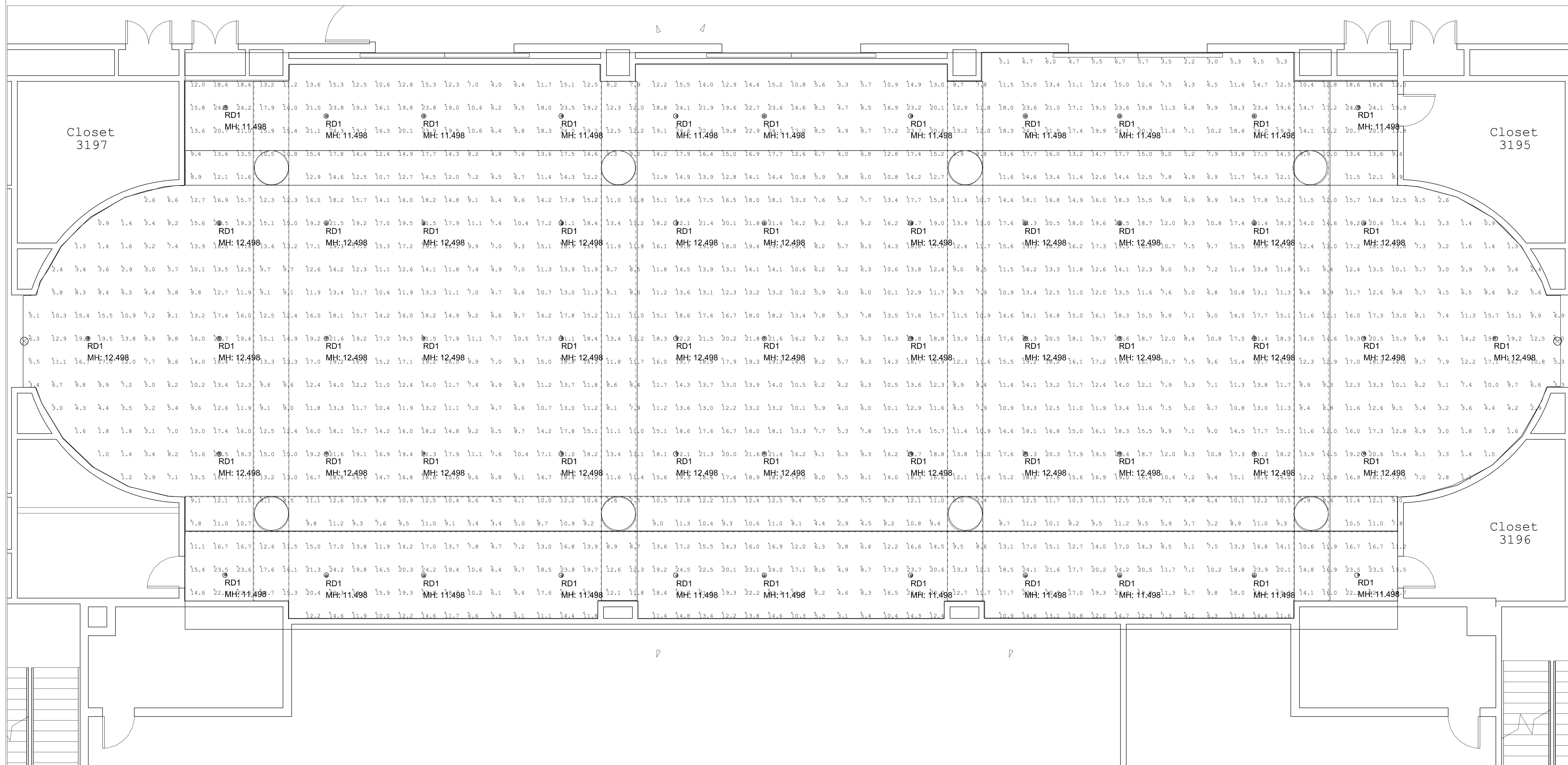
BUILDING NAME	INTERNATIONAL GALLERY
ADDRESS	1100 JEFFERSON DR SW WASHINGTON DC 20004
PROJECT TITLE	QUAD REPLACE TRACK LIGHTING AT INTL GALLERY
SF PROJECT NUMBER	2109103
A/E PROJECT NUMBER	55-23102-00
DRAWING TITLE	LIGHTING_PLAN
DRAWING TYPE	RCP
WORKING STAFF	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
E-100	E LP 100
2_OF_9	DISCIPLINE TYPE SEQUENCE

GENERAL NOTES

- A. POINT BY POINT LIGHTING LEVELS AT FLOOR LEVEL WITH METER NORMAL TO FLOOR SURFACE. CALCULATIONS PERFORMED BASED ON EMPTY SPACE. PER NFPA 101, TARGET LIGHT LEVELS IN EMERGENCY MODE ARE 1FC AVERAGE ACROSS ENTIRE FLOOR, MINIMUM 0.1FC, AND MAXIMUM TO MINIMUM RATIO NO GREATER THAN 40:1. BECAUSE EXHIBITS WILL BE RECONFIGURED OVER TIME, ASSUME THE ENTIRE FLOOR AREA IS THE EGRESS PATH UNDER EMERGENCY CONDITIONS.
- B. LIGHT LEVEL CALCULATIONS SIMULATE EXPECTED CONDITIONS WITH LOW REFLECTANCE FLOOR (0.2), MEDIUM REFLECTANCE WALLS (0.5), AND LIGHT REFLECTANCE CEILING (0.7). IT IS PRUDENT TO ASSUME A 10% MARGIN OF ERROR.

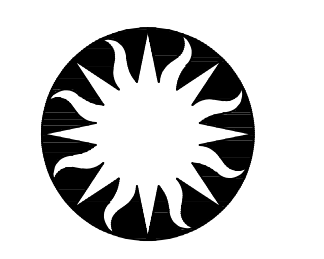
Symbol	Qty	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts	[MANUFAC]	Filename
⊕	57	4 INCH RECESSED DOWNLIGHT WITH 40 DEGREE BEAM SPREAD	RD1	0.850	1431	21	LUCIFER LIGHTING	2RD1-2RA_90CRI_21W_3000K_40DEG.ies

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
International Gallery_Floor	Illuminance	Fc	12.93	24.6	0.9	14.37	27.33



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DATE	SUBMISSION
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REVISION 6	
REVISION 7	

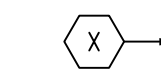


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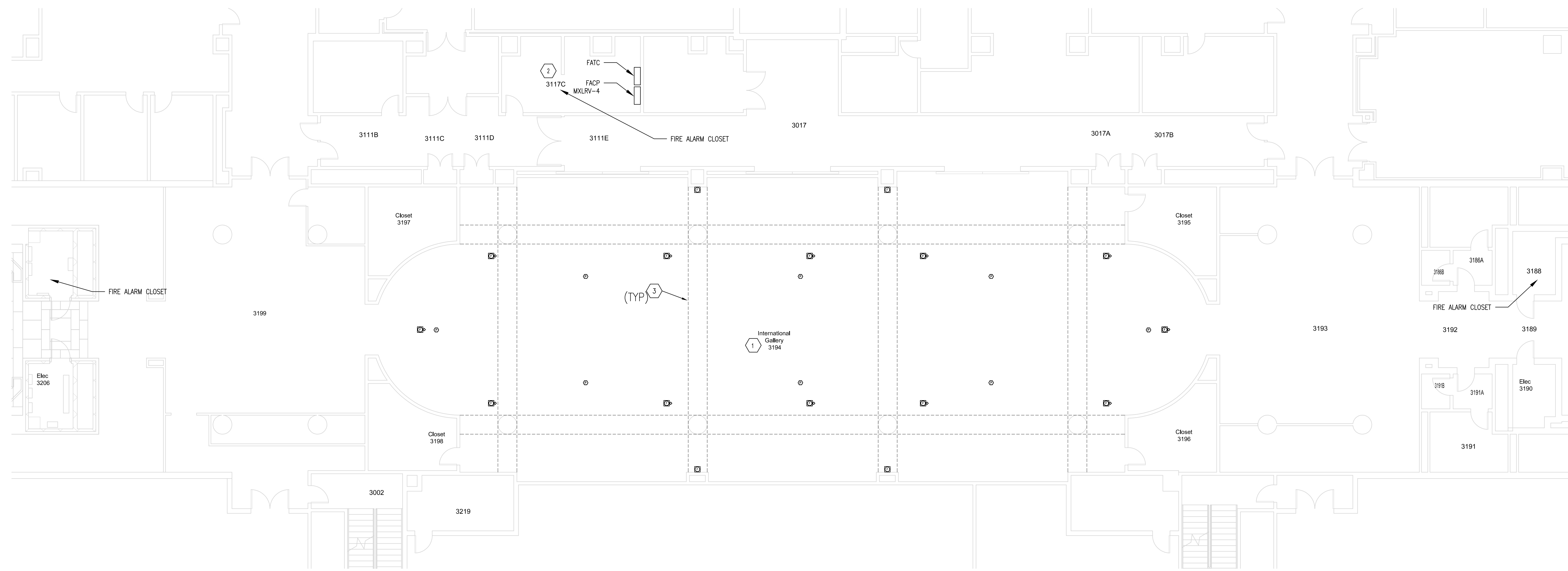
BUILDING NAME	INTERNATIONAL GALLERY	
ADDRESS	1100 JEFFERSON DR SW WASHINGTON DC 20004	
PROJECT TITLE	QUAD REPLACE TRACK LIGHTING AT INTL GALLERY	
SF PROJECT NUMBER	2109103	
A/E PROJECT NUMBER	55-23102-00	
DRAWING TITLE	EM_LIGHTING_PHOTOMETRICS	
DRAWING TYPE	RCP	
WORKING STAFF		
DESIGNED BY		
DRAWN BY		
CHECKED BY		
E-101LP	LP	101
J_OF_9	DISCIPLINE	TYPE

1 EMERGENCY LIGHTING PHOTOMETRICS LEVEL 3 - NEW WORK
 1/4" = 1' - 0"

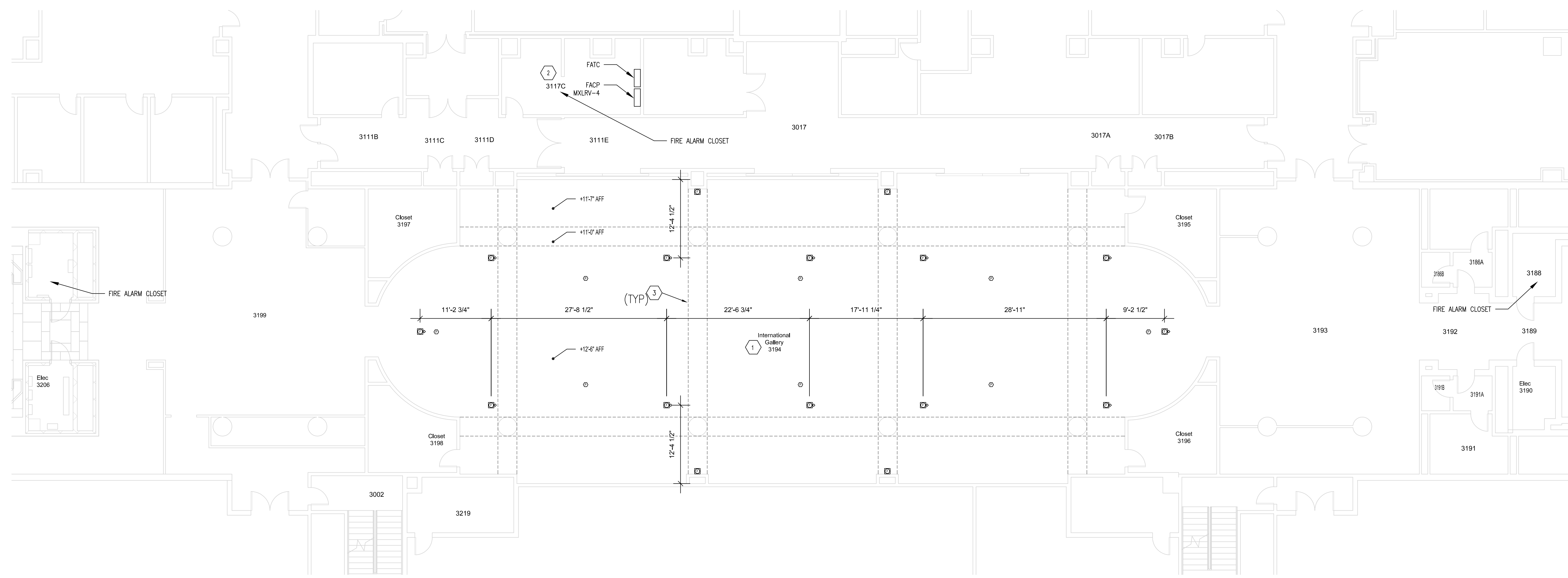
KEYNOTES



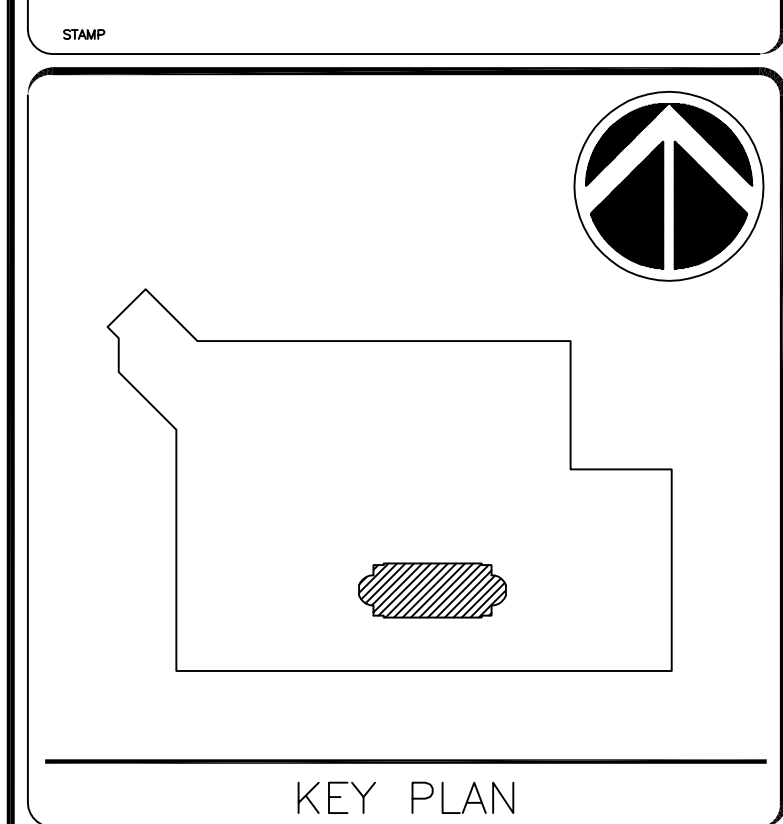
1. PROJECT SCOPE INCLUDES DEMOLITION OF HORIZONTAL CEILING AND INSTALLATION OF NEW CEILING IN ROOM 3194. DEMOLISH EXISTING FIRE ALARM DEVICES IN EXISTING HORIZONTAL CEILING AND INSPECT CONDITION OF EXISTING CONDUCTORS. EXISTING CONDUCTORS MAY BE RETAINED AND REUSED FOR NEW DEVICES IF INSULATION CONTAINS NO CUTS, DISCOLORATION OR BRITTLENESS. WHERE EXISTING CONDUCTORS MAY NOT BE REUSED, PROVIDE NEW CONDUCTORS BETWEEN DEVICES AND FACP/FATC. INSTALL NEW DEVICES OF THE SAME TYPE AND PERFORMANCE CRITERIA IN EXISTING LOCATIONS ON NEW CEILING. MODIFY DEVICE TYPE OR LAYOUT AS REQUIRED TO ENSURE COMPLIANCE WITH 2022 NFPA 72.
2. LOCATION OF FACP AND FATC SERVING ROOM 3194.
3. SOFFIT ENCLOSURE OUTLINE.



2 FIRE ALARM PLAN LEVEL 3 - DEMOLISH
1/8" = 1' - 0"

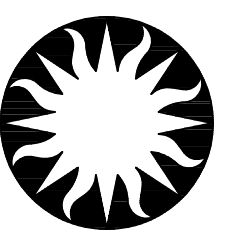


3 FIRE ALARM PLAN LEVEL 3 - NEW WORK
1/8" = 1' - 0"



GRAPHIC SCALE(S)

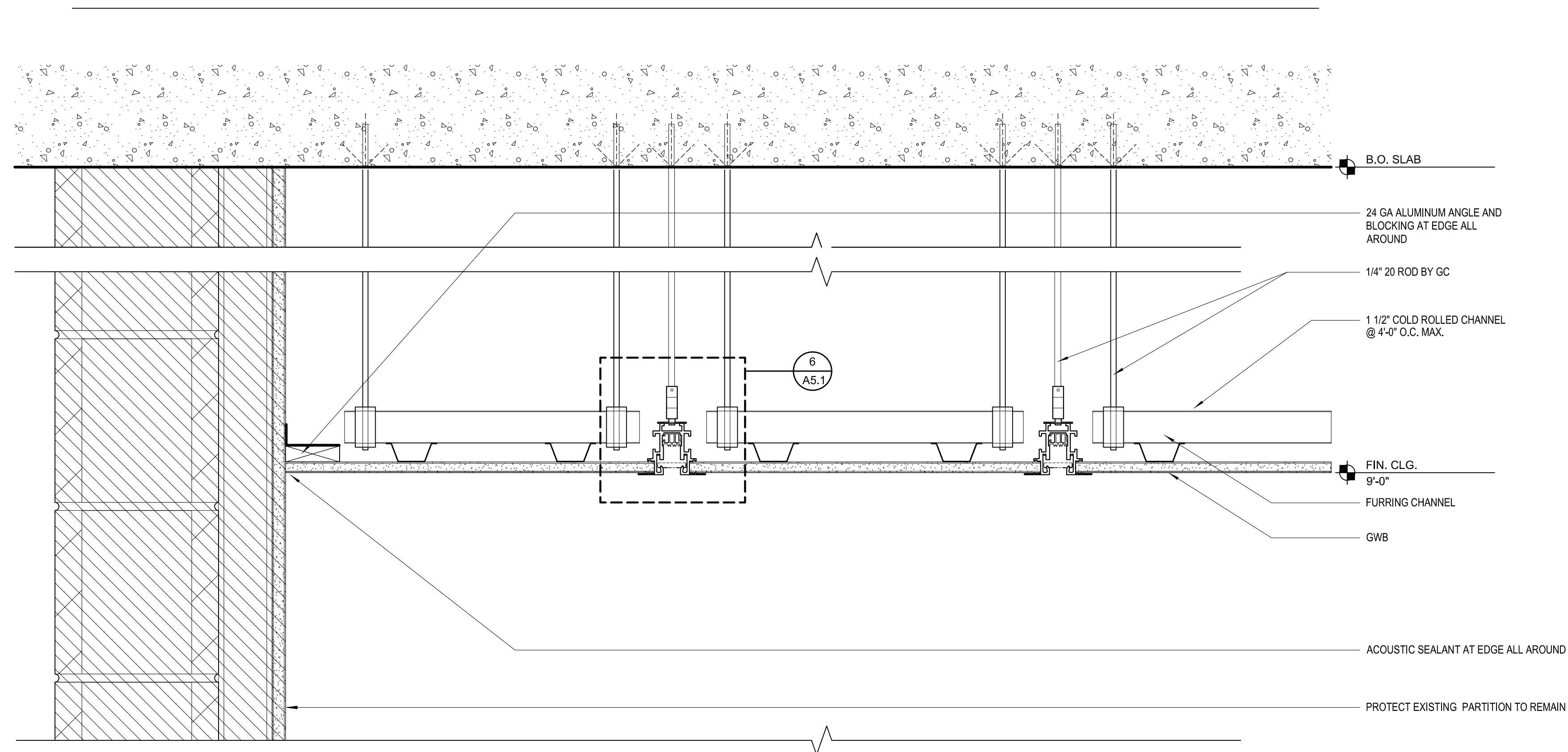
DATE	SUBMISSION
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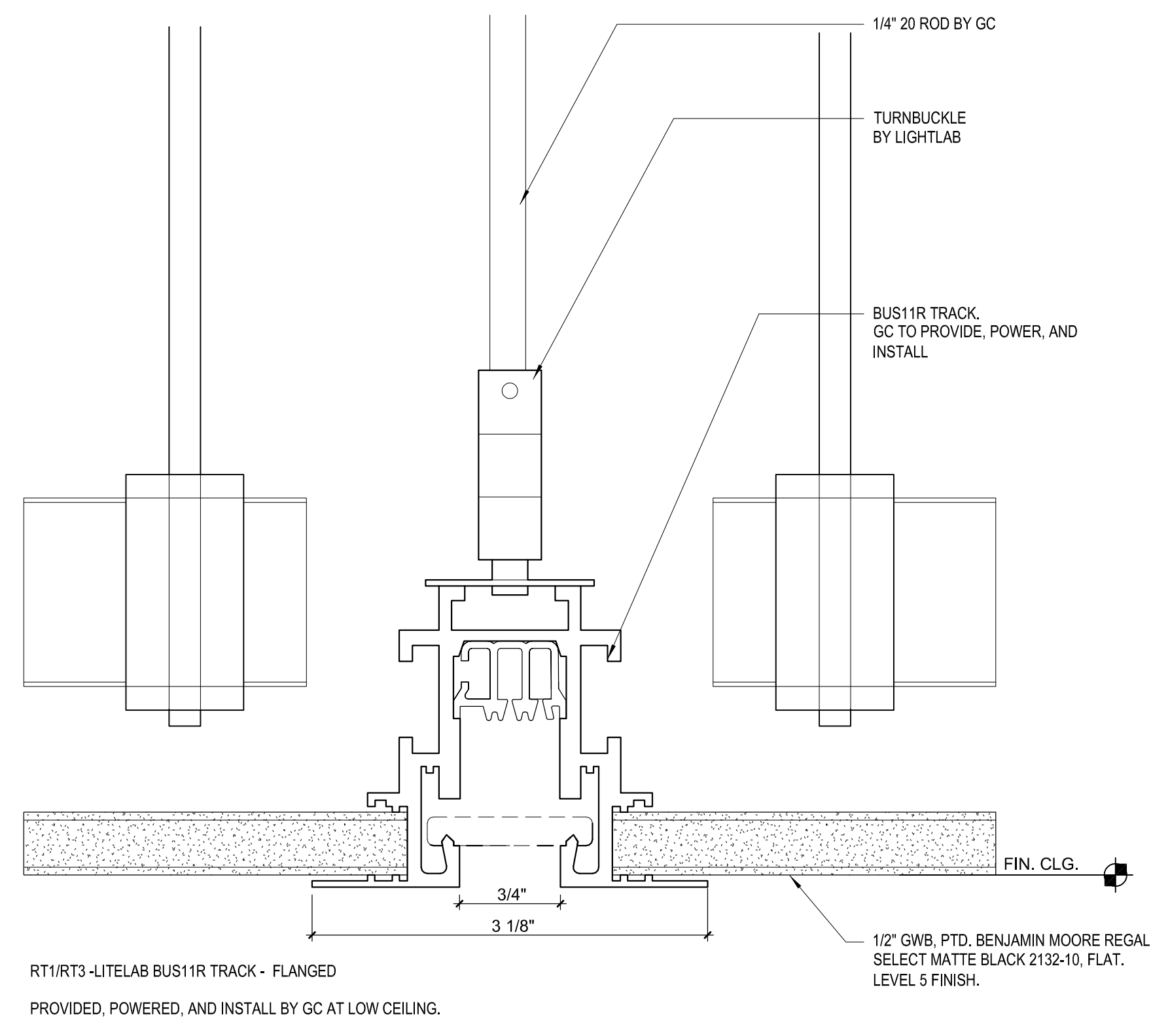
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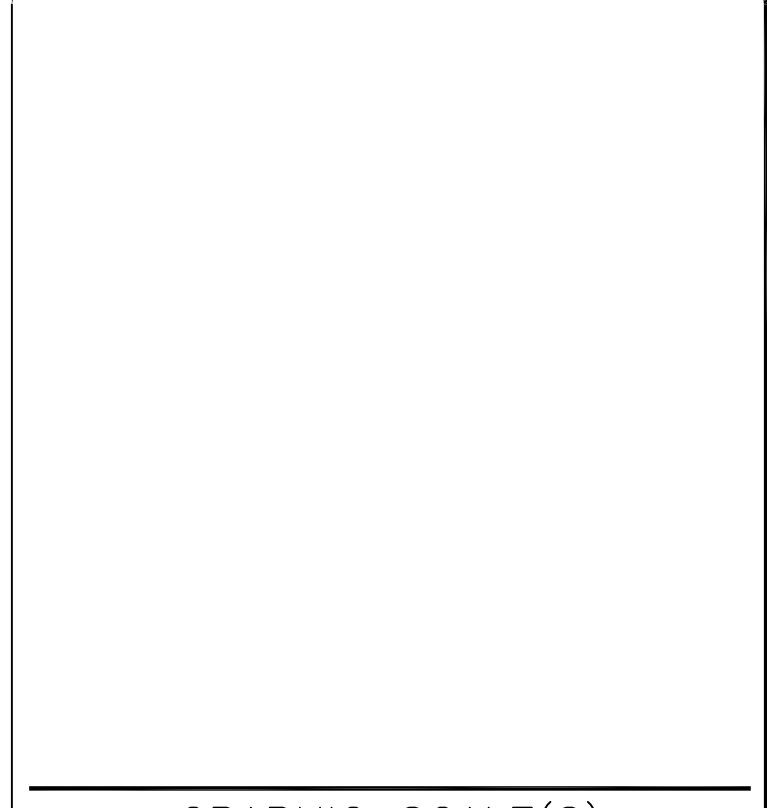
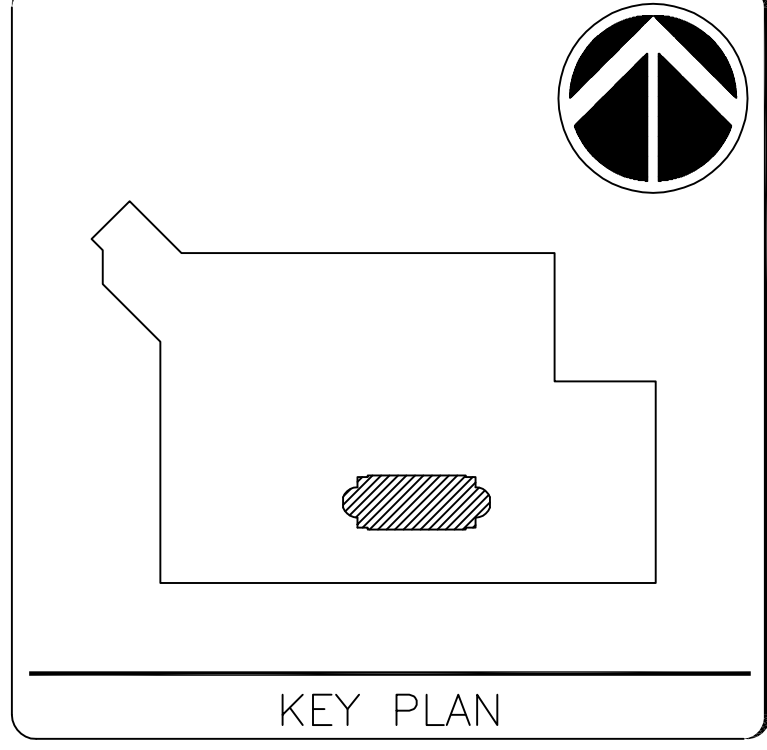
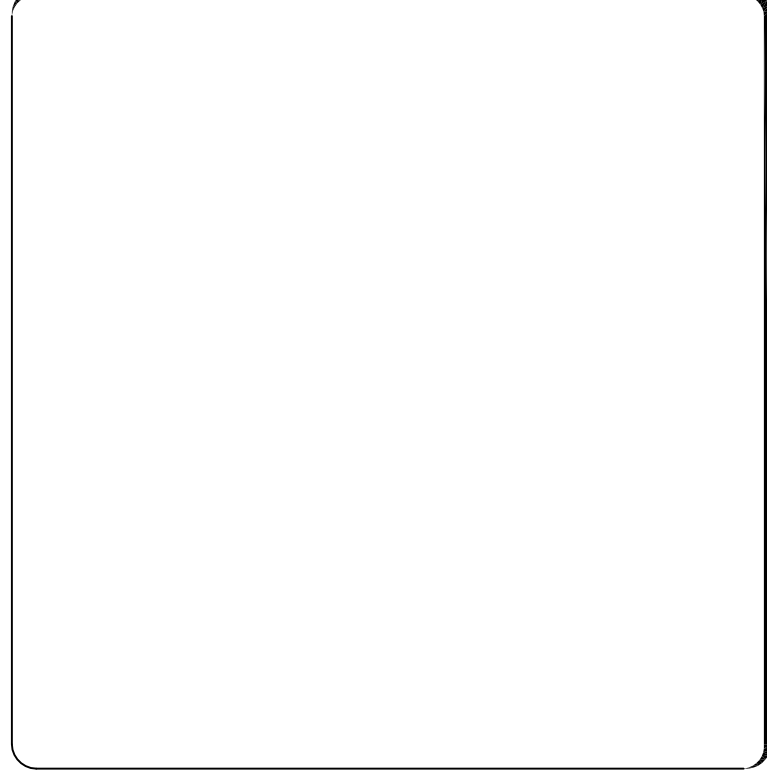
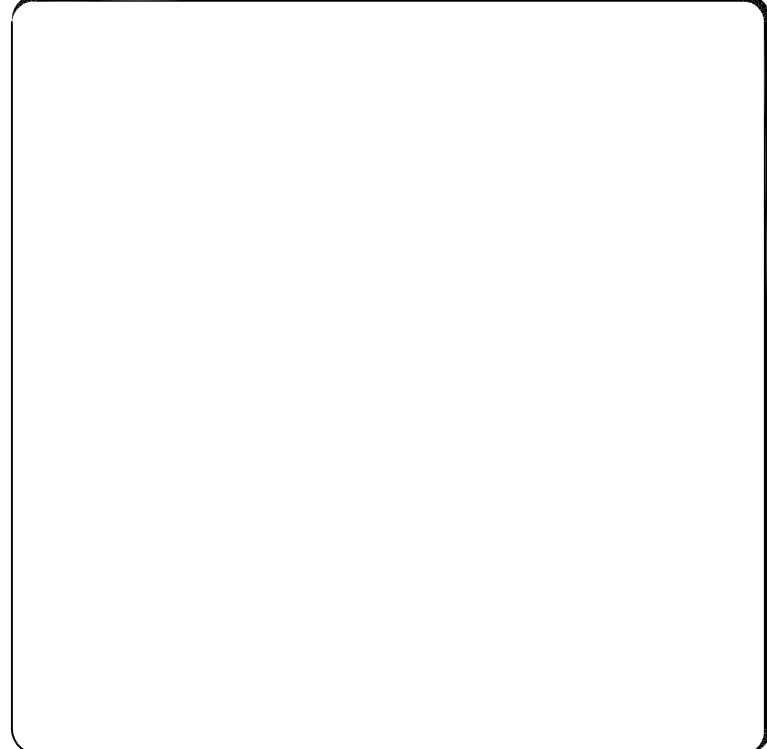
BUILDING NAME	INTERNATIONAL GALLERY		
ADDRESS	1100 JEFFERSON DR SW WASHINGTON DC 20004		
PROJECT TITLE	QUAD REPLACE TRACK LIGHTING AT INTL GALLERY		
SF PROJECT NUMBER	2109103		
A/E PROJECT NUMBER	55-23102-00		
DRAWING TITLE	FIRE_ALARM_PLAN		
DRAWING TYPE	FA		
WORKING STAFF			
DESIGNED BY			
DRAWN BY			
CHECKED BY			
E-300	FA	FA	300
6_OF_9	DISCIPLINE	TYPE	SEQUENCE



1 RECESSED LIGHTING BUS IN GYPBOARD CEILING
 3" = 1' - 0"



2 LITELAB BUS-11R IN GYPBOARD CEILING
 12" = 1' - 0"



GRAPHIC SCALE(S)

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DRAWING TITLE	ELECTRICAL_DETAILS		
DRAWING TYPE	DT		
WORKING STAFF			
DESIGNED BY			
DRAWN BY			
CHECKED BY			
E-500	E	DT	500
6_OF_9	DISCIPLINE	TYPE	SEQUENCE

DATE PLOTTED: 11/01/2024 10:58 AM

LUMINAIRE SCHEDULE - BASE BID																	
LUMINAIRE CRITERIA			PRODUCT INFORMATION		SOURCE				ELECTRICAL INFORMATION				ADDITIONAL INFORMATION				
TYPE	DESCRIPTION	FINISH	MANUFACTURER	MODEL OR SERIES	LAMP	LUMENS	COLOR TEMP	CRI	DIMMING TYPE	POWER SUPPLY	VOLTAGE	WATTAGE	MOUNTING	MOUNTING HEIGHT	QNT Y	COMMENTS	ACCESSORIES
TA1	RECESSED 1-CIRCUIT TRACK, NOMINAL 3 INCH WIDTH BY 2 1/2 INCH HEIGHT BY LENGTHS AS SHOWN ON DRAWINGS	WHITE	LITELAB	BUS-11R	N/A	N/A	N/A	N/A	N/A	N/A	UNV	N/A	RECESSED	N/A	N/A	SEE TYPES A3P, C20, C2S, C2W, C2Z, C3S AND SHEET E.100 FOR INFORMATION ON WATTAGE LOADS.	
RD1	RECESSED LED DOWNLIGHT, NOMINAL 2 INCH APERTURE, WHITE TRIM WITH 40 DEGREE OPTIC, ZERO SIGHTLINE TRIM	WHITE	LUCIFER LIGHTING	2RD-1-WH-97S11A-30-40-AT-LH1-04-G	LED	1746	3000	90+	0-10V	INTEGRAL ELECTRONIC DIMMING DRIVER	UNV	21W	RECESSED	N/A	57		
X1	UNIVERSAL SURFACE MOUNTED CAST DIE CAST ALUMINUM EXIT SIGN (SPECIFICATIONS TO MATCH EXISTING QUAD IN-GALLERY EXIT SIGNS)	BRUSHED STAINLESS STEEL	EXITRONIX	G402E-LB-BL	LED	500	GREEN	N/A	N/A	INTEGRAL ELECTRONIC DRIVER	UNV	2.3W	SURFACE (UNIVERSAL)	N/A	3		

GENERAL NOTES:

A. CONTRACTOR IS RESPONSIBLE TO REVIEW ARCHITECTURAL DRAWINGS TO CONFIRM CEILING TYPES IN ALL ROOMS (ACCESSIBLE, EXPOSED OR "HARD") AND TO USE THE APPROPRIATE WIRING METHOD FOR EACH TYPE. ENSURE ALL J-BOXES ARE ACCESSIBLE AFTER ALL OTHER TRADES WORK IS COMPLETED. DO NOT LOCATE ANY J-BOXES ON "HARD" CEILINGS; ALL WIRING MUST BE ACCESSIBLE THROUGH LUMINAIRE ONLY IN "DAISY-CHAIN" METHOD OR WITH DEDICATED HOMERUN TO EACH LUMINAIRE. J-BOXES MAY BE LOCATED ABOVE OTHER TRADES ACCESS DOORS IF FEASIBLE AND DOES NOT INTERFERE WITH ACCESS.

B. ALL LOW VOLTAGE CABLING TO LIGHTING FIXTURES AND CONTROL DEVICES SHALL BE PLENUM RATED.

C. EXIT SIGNS TO BE CIRCUITED TO NEAREST EMERGENCY CIRCUIT SERVING THE SPACE.

LUMINAIRE SCHEDULE - BID OPTION 1 (SEE GENERAL NOTES FOR DESCRIPTION)																	
LUMINAIRE CRITERIA			PRODUCT INFORMATION		SOURCE				ELECTRICAL INFORMATION				ADDITIONAL INFORMATION				
TYPE	DESCRIPTION	FINISH	MANUFACTURER	MODEL OR SERIES	LAMP	LUMENS	COLOR TEMP	CRI	DIMMING TYPE	POWER SUPPLY	VOLTAGE	WATTAGE	MOUNTING	MOUNTING HEIGHT	QNT Y	COMMENTS	ACCESSORIES
A3P	TRACK MOUNTED LED FRAMING PROJECTOR	WHITE	LITELAB	A3P-L18-30-9TC-E-P-R-A-P	LED	1800	3000	92+	0-10V	INTEGRAL ELECTRONIC DIMMING DRIVER	UNV	40W	TRACK	N/A	146	PROVIDE FOCUS TUBES: (20) 11-DEGREE 64506 (90) 22-DEGREE 64506-01 (18) 33-DEGREE 64506-02 (18) 54-DEGREE 64506-03	PROVIDE WITH GOBO CARRIER 64514
C20	TRACK MOUNT LED LUMINAIRE WITH 15, 25 OR 35-DEGREE OPTIC, STATIC WHITE, ON BOARD DIMMING	WHITE	LITELAB	C20-L16-30-9TC-ELV-P-R-A-P	LED	1600	3000	92+	0-10V	INTEGRAL ELECTRONIC DIMMING DRIVER	UNV	25W	TRACK	N/A	100	PROVIDE 10% OF TRACK HEADS ABOVE QUANTITY LISTED FOR ATTIC STOCK PROVIDE DEGREE OPTICS: (50) 25 DEGREE (30) 15-DEGREE (20) 35-DEGREE	PROVIDE WITH: LINEAR SPREAD LENS OL-10X40-a LINEAR SPREAD LENS OL-10X60-a UNIVERSAL SPREAD LENS OL-30X60-a BEAM SOFTENING LENS OL-TD-a HEXCCELL LOUVER LVH/a
C2S	TRACK MOUNT LED LUMINAIRE WITH 6-DEGREE OPTIC, STATIC WHITE, ON BOARD DIMMING	WHITE	LITELAB	C2S-L07-30-9TC-E-P-R-A-P-6	LED	720	3000	92+	0-10V	INTEGRAL ELECTRONIC DIMMING DRIVER	UNV	18W	TRACK	N/A	165	PROVIDE 10% OF TRACK HEADS ABOVE QUANTITY LISTED FOR ATTIC STOCK	PROVIDE WITH: LINEAR SPREAD LENS OL-10X40-a LINEAR SPREAD LENS OL-10X60-a UNIVERSAL SPREAD LENS OL-30X60-a BEAM SOFTENING LENS OL-TD-a HEXCCELL LOUVER LVH/a
C2W	TRACK MOUNT LED LUMINAIRE WITH WALL WASH STATIC WHITE OPTIC, ON BOARD DIMMING	WHITE	LITELAB	C2W-L16-30-9TCC-E-P-R-A-P	LED	1600	3000	92+	0-10V	INTEGRAL ELECTRONIC DIMMING DRIVER	UNV	25W	TRACK	N/A	66	PROVIDE 10% OF TRACK HEADS ABOVE QUANTITY LISTED FOR ATTIC STOCK	PROVIDE WITH: UNIVERSAL SPREAD LENS OL-30X60-a BEAM SOFTENING LENS OL-TD-a
C2Z	TRACK MOUNT LED LUMINAIRE WITH ADJUSTABLE 5-55 DEGREE ZOOM OPTIC, STATIC WHITE, ON BOARD DIMMING	WHITE	LITELAB	C2Z-L14-30-9TC-E-P-R-A-P	LED	1450	3000	92+	0-10V	INTEGRAL ELECTRONIC DIMMING DRIVER	UNV	30W	TRACK	N/A	38	PROVIDE 10% OF TRACK HEADS ABOVE QUANTITY LISTED FOR ATTIC STOCK	PROVIDE WITH: LINEAR SPREAD LENS OL-10X40-a LINEAR SPREAD LENS OL-10X60-a UNIVERSAL SPREAD LENS OL-30X60-a BEAM SOFTENING LENS OL-TD-a HEXCCELL LOUVER LVH/a
C3S	TRACK MOUNTED LED LUMINAIRE WITH 3 DEGREE OPTIC, STATIC WHITE, ON BOARD DIMMING, NOMINAL 5 INCH LENGTH AND 3 INCH DIAMETER	WHITE	LITELAB	C3S-L08-30-9TC-E-P-R-A-P-3	LED	835	3000	90+	ELV	INTEGRAL ELECTRONIC DIMMING DRIVER	UNV	21W	TRACK	N/A	164	PROVIDE 10% OF TRACK HEADS ABOVE QUANTITY LISTED FOR ATTIC STOCK	PROVIDE WITH: LINEAR SPREAD LENS OL-10X40-p LINEAR SPREAD LENS OL-10X60-p UNIVERSAL SPREAD LENS OL-30X60-p BEAM SOFTENING LENS OL-TD-p HEXCCELL LOUVER LVH/p

GENERAL NOTES:

A. BID OPTION 1: CONTRACTOR TO PURCHASE LUMINAIRE TYPES DEFINED IN "LUMINAIRE SCHEDULE - BID OPTION 1", TEST EACH TRACK HEAD TO CONFIRM IT IS OPERATIONAL, AND TURN OVER TO OWNER FOR STORAGE. TESTING TO BE PERFORMED ON SEPARATE TRACK SAMPLE SECTION WITH CORD AND PLUG (NOT INSTALLED IN PERMANENT TRACK AND REMOVED).

PANEL		SERVICE:	208Y120V - 3P - 4W	PROJECT:	QUAD REPLACE TRACK LIGHTING
LDP3C		MAIN BUS:	400 A	MCB:	300 A
NEW PANEL		SCCR:	10 KA	NOTE:	
SECTION 1 of 1		MOUNTING:	SURFACE	NOTE:	
		LOCATION:	ELEC RM 3206	NEMA TYPE:	1

CKT NO.	BREAKER	LOAD				LOAD				BREAKER	CKT NO.			
		AMP	P	RM	DESCRIPTION	AMP	P	RM	DESCRIPTION					
1	200	3			PANEL LP3C3	10.0	11.5		1.5	L	PANEL LP3C2(E)	60	3	2
3	-	-			L 8.3		9.8		1.5	L		-	-	4
5	-	-			L 6.6		10.1		1.5	L		-	-	6
7	100	3			L 1.5	5.5		4.0	L	ELECT. RANGE - RM 3071(E)	50	2	8	
9	-	-			L 1.5		5.5	4.0	L	ELECT. RANGE - RM 3071(E)	-	-	10	
11	-	-			L 1.5		2	0.5	L	RECEPT - RM 3071(E)	20	1	12	
13	20	1			L 0.5	1		0.5	L	FURNITURE (I/OB)(E)	20	1	14	
15	20	1			L 0.5		1	0.5	L	FURNITURE(E)	20	1	16	
17	20	1			L 1.0		3	2.0	D	UNKNOWN LOAD	100	3	18	
19	20	2			D 1.0	3		2.0	D	UNKNOWN LOAD	-	-	20	
21	-	-			D 1.0		3	2.0	D	UNKNOWN LOAD	-	-	22	
23	20	1			D		0.1	0.1	D	LCPT POWER SENSE (N)	20	3	24	
25	20	1			D	0.1		0.1	D	LCPT POWER SENSE (N)	-	-	26	
27	20	1			D		0.1	0.1	D	LCPT POWER SENSE (N)	-	-	28	
29	20	1			D				D	SPARE	20	1	30	
31	20	1			D				D	SPARE	20	1	32	
33	20	1			D				D	SPARE	20	1	34	
35	20	1								DO NOT USE	20	11	36	
37	20	1								DO NOT USE	20	1	38	
39	20	1								DO NOT USE	20	1	40	
41	20	1								DO NOT USE	20	1	42	
43	20	1								DO NOT USE	20	1	44	
45	20	1								DO NOT USE	20	1	46	
47	20	1								DO NOT USE	20	1	48	
49	20	1								DO NOT USE	20	1	50	
51	20	1								DO NOT USE	20	1	52	
53	20	1								DO NOT USE	20	1	54	
55	20	1								DO NOT USE	20	1	56	
57	20	1								DO NOT USE	20	1	58	
59	20	1								DO NOT USE	20	1	60	

CONNECTED LOAD (KVA): 21.1 19.4 15.2

TOTAL CONNECTED (KVA): 55.7

TOTAL DEMAND (KVA): 67.6

TOTAL DEMAND AMPS (A): 187.5

HIGHEST PHASE CONNECTED (A): 175.7

* BREAKER REMARKS:

S=SHUNT TRIP, H=HACR, G=GFCL, L=C/B Lock, T=TIME CLK, S=SWITCH CTRL, C=CONTACTOR CTRL, N=NEW BREAKER (INSTALLED IN EXISTING PANEL), NL=NEW LOAD ON EXISTING BREAKER, EX=EXISTING LOAD ON EXISTING BREAKER, RV=EXISTING CIRCUIT MODIFIED ON EXISTING BREAKER

LOAD TYPE	AMP	P	RM
(D) DEDICATED	8.3	1	8.3
(H) HVAC			
(M) MISC.			
(L) LIGHTING	47.4	1.25	59.3
(C) CONT.			
(K) KITCHEN			
(R) RECEPT.			
	NEC		

NOTE:
FOR NEW PANELS, ALL BREAKERS ARE NEW, UON.
FOR EXISTING PANELS, ALL BREAKERS ARE EXISTING, UON.

PANEL		SERVICE:	208Y120V - 3P - 4W	PROJECT:	QUAD REPLACE TRACK LIGHTING
LP3C3		MAIN BUS:	225 A	MCB:	200 A
NEW PANEL		SCCR:	10 KA	NOTE:	
SECTION 1 of 1		MOUNTING:	SURFACE	NOTE:	
		LOCATION:	ELEC RM 3206	NEMA TYPE:	1

CKT NO.	BREAKER	LOAD				LOAD				BREAKER	CKT NO.			
		AMP	P	RM	DESCRIPTION	AMP	P	RM	DESCRIPTION					
1	20	1			INTL GALLERY TRACK LTG (3194)	1.3	2.2		0.9	L	INTL GALLERY TRACK LTG (3194)	20	1	2
3	20	1			INTL GALLERY TRACK LTG (3194)	L 1.1			0.9	L	INTL GALLERY TRACK LTG (3194)	20	1	4
5	20	1			INTL GALLERY TRACK LTG (3194)	L 1.0			1.1	L	INTL GALLERY TRACK LTG (3194)	20	1	6
7	20	1			INTL GALLERY TRACK LTG (3194)	L 1.0	2.4		1.4	L	INTL GALLERY TRACK LTG (3194)	20	1	8
9	20	1			INTL GALLERY TRACK LTG (3194)	L 0.4		1.5	1.1	L	INTL GALLERY TRACK LTG (3194)	20	1	10
11	20	1			INTL GALLERY TRACK LTG (3194)	L 1.0			0.9	L	INTL GALLERY TRACK LTG (3194)	20	1	12
13	20	1			INTL GALLERY TRACK LTG (3194)	L 0.8	1.6		0.8	L	INTL GALLERY TRACK LTG (3194)	20	1	14
15	20	1			INTL GALLERY TRACK LTG (3194)	L 0.6		1.5	0.9	L	INTL GALLERY TRACK LTG (3194)	20	1	16
17	20	1			EXISTING TRACK LTG (3199)(E)	L 1.0			2	L	EXISTING TRACK LTG (3199)(E)	20	1	18
19	20	1			INTL GALLERY TRACK LTG (3194)	L 0.4	0.8		0.4	L	INTL GALLERY TRACK LTG (3194)	20	1	20
21	20	1			INTL GALLERY TRACK LTG (3194)	L 0.4		0.8	0.4	L	INTL GALLERY TRACK LTG (3194)	20	1	22
23	20	1			INTL GALLERY TOUCHSCREEN	D 0.1			0.6	D	INTL GALLERY CEILING POWER	20	1	24
25	20	1			INTL GALLERY CEILING POWER	D 0.5	1		0.5	D	INTL GALLERY CEILING POWER	20	1	26
27	20	1			INTL GALLERY CEILING POWER	D 0.5		1	0.5	D	INTL GALLERY CEILING POWER	20	1	28
29	20	1			INTL GALLERY CEILING POWER	D 0.5		1	0.5	D	INTL GALLERY CEILING POWER	20	1	30
31	20	1			INTL GALLERY CEILING POWER	D 0.5		1	0.5	D	INTL GALLERY CEILING POWER	20	1	32
33	20	1			INTL GALLERY CEILING POWER	D 0.5		1	0.5	D	INTL GALLERY CEILING POWER	20	1	34
35	20	1			INTL GALLERY CEILING POWER	D 0.5		1	0.5	D	INTL GALLERY CEILING POWER	20	11	36
37	20	1			INTL GALLERY CEILING POWER	D 0.5	1		0.5	D	INTL GALLERY CEILING POWER	20	1	38
39	20	1			INTL GALLERY CEILING POWER	D 0.5		0.5		D	SPARE	20	1	40
41	20	1			SPARE						SPARE	20	1	42
43	20	1			SPARE						SPARE	20	1	44
45	20	1			SPARE						SPARE	20	1	46
47	20	1			SPARE						DO NOT USE	20	1	48
49	20	1			DO NOT USE						DO NOT USE	20	1	50
51	20	1			DO NOT USE						DO NOT USE	20	1	52
53	20	1			DO NOT USE						DO NOT USE	20	1	54
55	20	1			DO NOT USE						DO NOT USE	20	1	56
57	20	1			DO NOT USE						DO NOT USE	20	1	58
59	20	1			DO NOT USE						DO NOT USE	20	1	60

CONNECTED LOAD (KVA): 10.0 8.3 8.6

TOTAL CONNECTED (KVA): 28.9

TOTAL DEMAND (KVA): 31.6

TOTAL DEMAND AMPS (A): 87.7

HIGHEST PHASE CONNECTED (A): 83.3

* BREAKER REMARKS:

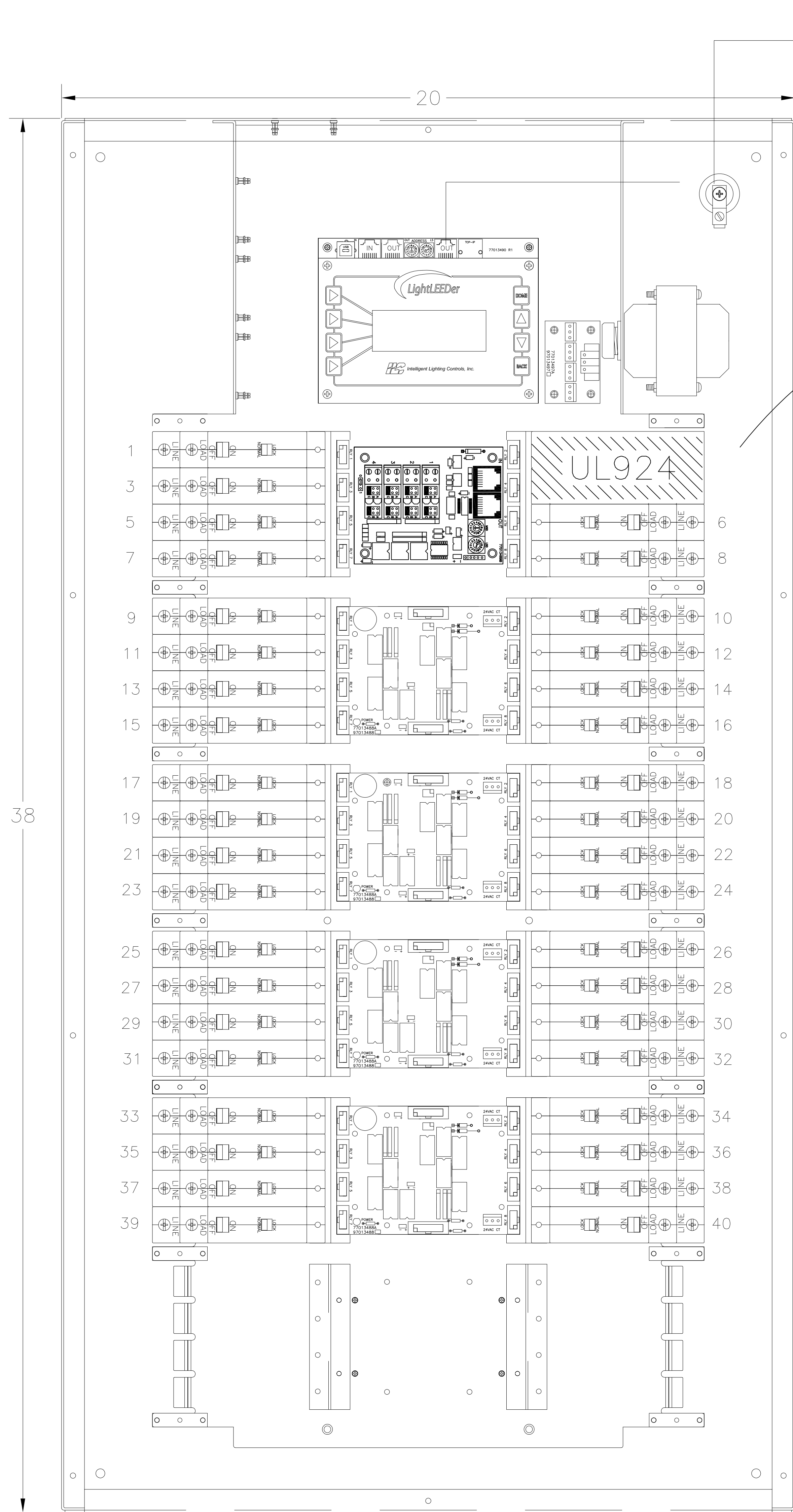
S=SHUNT TRIP, H=HACR, G=GFCL, L=C/B Lock, T=TIME CLK, S=SWITCH CTRL, C=CONTACTOR CTRL, N=NEW BREAKER (INSTALLED IN EXISTING PANEL), NL=NEW LOAD ON EXISTING BREAKER, EX=EXISTING LOAD ON EXISTING BREAKER, RV=EXISTING CIRCUIT MODIFIED ON EXISTING BREAKER, HT=IDENTIFIED HANDLE TIE

LOAD TYPE	AMP	P	RM
(D) DEDICATED	8.1	1	8.1
(H) HVAC			
(M) MISC.			
(L) LIGHTING	18.8	1.25	23.5
(C) CONT.			
(K) KITCHEN			
(R) RECEPT.			
	NEC		

NOTE:
FOR NEW PANELS, ALL BREAKERS ARE NEW, UON.
FOR EXISTING PANELS, ALL BREAKERS ARE EXISTING, UON.

LOAD SUMMARY STATEMENT

IN ORDER TO ESTIMATE EXISTING LOAD ON PANEL LDP3C AND PANEL LP3C3 PER NEC 220.87, EACH WAS METERED FOR 30 DAYS BETWEEN THE TIME

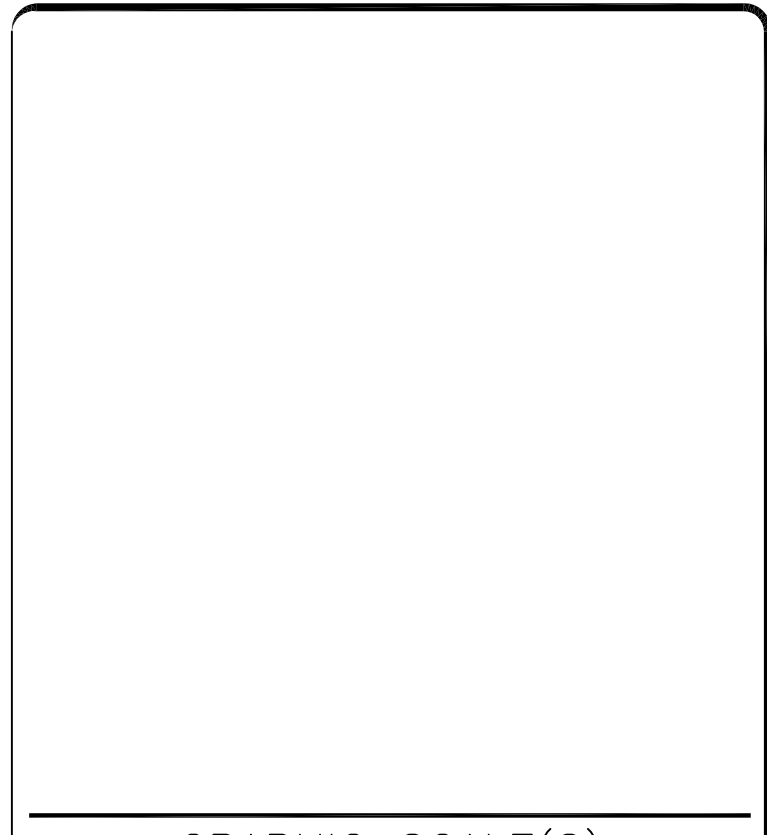
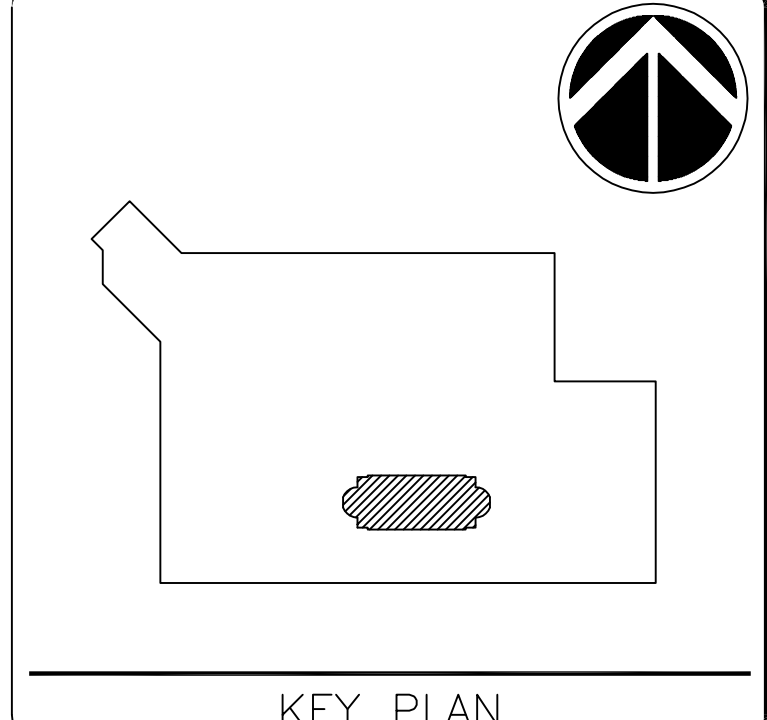
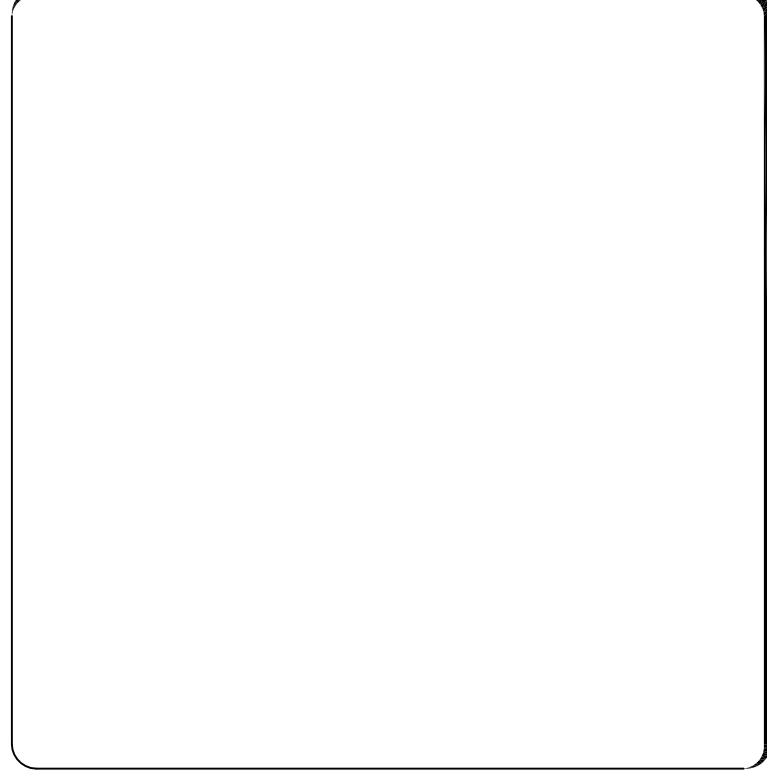
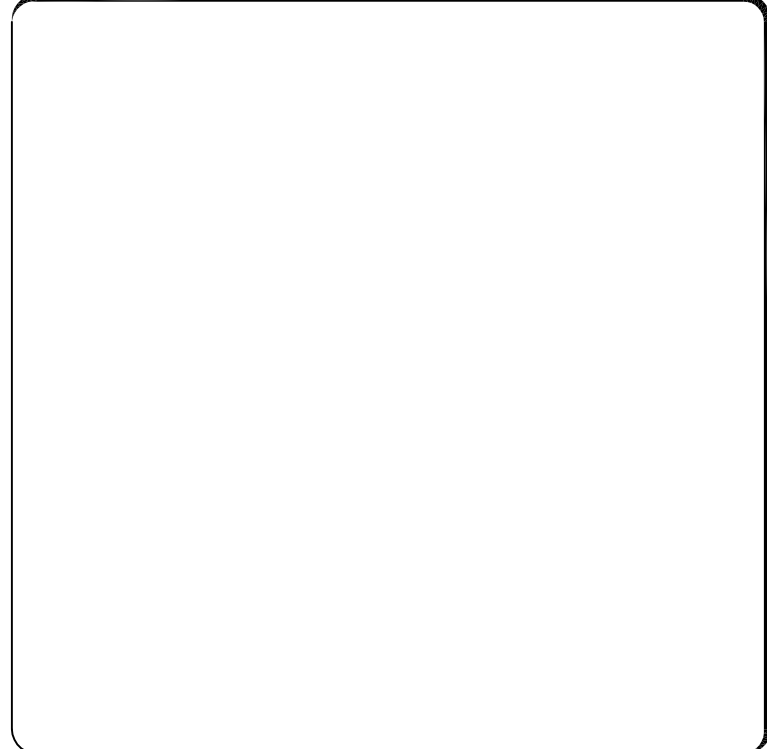


LIGHTING CONTROL PANEL SCHEDULE 'LCP1'

PANEL LOCATION:				PANEL SUPPLY CIRCUIT:									
RELAY/ ZONE	PANEL	CIRCUIT NUMBER	WAS	LOAD DESCRIPTION/ LOCATION		VOLTAGE	DIMMING	PHOTOCELL	APPARENT LOAD (VA)	LOCAL CONTROL/ OVERRIDE	PROGRAMMING SCHEDULE		SCHEDULE NOTES
											MORNING - ON	EVENING - OFF	
1	LP3C3	1	1.3	LIGHTING BUS	INTERNATIONAL GALLERY 3194	120	NO	NO	1352	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
3	LP3C3	2	2.4	LIGHTING BUS	INTERNATIONAL GALLERY 3194	120	NO	NO	942	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
5	LP3C3	3	5.7	LIGHTING BUS	INTERNATIONAL GALLERY 3194	120	NO	NO	1096	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
6	ELP3A	2		DOWNLIGHTS	INTERNATIONAL GALLERY 3194		YES, 0-10V	NO		TOUCHSCREEN	N/A	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN; 0-10V WIRING TO LAND ON DIMMER CHANNEL 1
7	LP3C3	4	6.8	LIGHTING BUS	INTERNATIONAL GALLERY 3194	120	NO	NO	942	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
8	ELP3A	2		DOWNLIGHTS	INTERNATIONAL GALLERY 3194		YES, 0-10V	NO		TOUCHSCREEN	N/A	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN; 0-10V WIRING TO LAND ON DIMMER CHANNEL 2
9	LP3C3	5	9.11	LIGHTING BUS	INTERNATIONAL GALLERY 3194	120	NO	NO	1022	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
10	ELP3A	2		DOWNLIGHTS	INTERNATIONAL GALLERY 3194	120	YES, 0-10V	NO		TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN; 0-10V WIRING TO LAND ON DIMMER CHANNEL 3
11	LP3C3	6	10.12	LIGHTING BUS	INTERNATIONAL GALLERY 3194	120	NO	NO	1116	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
12				SPARE EM		120	NO	NO		TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
13	LP3C3	7	13.15	LIGHTING BUS	INTERNATIONAL GALLERY 3194	120	NO	NO	1072	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
14				SPARE EM		120	NO	NO		TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
15	LP3C3	8	14.16	LIGHTING BUS	INTERNATIONAL GALLERY 3194	120	NO	NO	1392	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
16				SPARE EM		120	NO	NO		TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
17	LP3C3	9	19.21	LIGHTING BUS	INTERNATIONAL GALLERY 3194	120	NO	NO	390	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
18	LP3C3	10	20.22	LIGHTING BUS	INTERNATIONAL GALLERY 3194	120	NO	NO	1132	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
19	LP3C3	11	23.25	LIGHTING BUS	INTERNATIONAL GALLERY 3194	120	NO	NO	996	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
20	LP3C3	12	24.26	LIGHTING BUS	INTERNATIONAL GALLERY 3194	120	NO	NO	880	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
21	LP3C3	13	27.29	LIGHTING BUS	INTERNATIONAL GALLERY 3194	120	NO	NO	805	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
22	LP3C3	14	28.30	LIGHTING BUS	INTERNATIONAL GALLERY 3194	120	NO	NO	750	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
23	LP3C3	15	31.33	LIGHTING BUS	INTERNATIONAL GALLERY 3194	120	NO	NO	793	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
24	LP3C3	16	32.34	LIGHTING BUS	INTERNATIONAL GALLERY 3194	120	NO	NO	836	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
25	LP3C3	17		LIGHTING	VESTIBULE 3199	120	NO	NO	500	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
26	LP3C3	18		LIGHTING	VESTIBULE 3199	120	NO	NO	500	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
27	LP3C3	19		LIGHTING BUS	INTERNATIONAL GALLERY 3194	120	NO	NO	390	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
28				SPARE									
29	LP3C3	21		LIGHTING BUS	INTERNATIONAL GALLERY 3194	120	NO	NO	390	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
30				SPARE									
31	LP3C3	20		LIGHTING BUS	INTERNATIONAL GALLERY 3194	120	NO	NO	390	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
32				SPARE									
33	LP3C3	22		LIGHTING BUS	INTERNATIONAL GALLERY 3194	120	NO	NO	390	TOUCHSCREEN	9:45AM	6:00PM	MANUAL OVERRIDE AT TOUCHSCREEN
34													
35													
36													
37													
38													
39													
40													

GENERAL NOTES:
 A. SEE SPECIFICATION SECTION 260923 FOR ADDITIONAL LIGHTING CONTROL SYSTEM REQUIREMENTS. PROVIDE ALL COMPONENTS, CABLING, HARDWARE, AND SOFTWARE FOR COMPLETE LIGHTING CONTROL SYSTEM.
 B. COORDINATE WITH OWNER FOR SCHEDULING OF AUTOMATIC SHUT-OFF.
 C. PROVIDE BARRIERS BETWEEN NORMAL AND EMERGENCY RELAYS FOR RELAY PANEL CONSTRUCTION.
 D. PROVIDE BARRIERS BETWEEN RELAYS WITH DIFFERING VOLTAGES FOR RELAY PANEL CONSTRUCTION.
 E. ALL RELAYS POWERED FROM A LIFE SAFETY CIRCUIT SHALL BE UL924 LISTED DEVICES TO AUTOMATICALLY FAIL CLOSED UPON DETECTION OF NORMAL POWER LOSS.
 F. PROVIDE A MEANS TO COMMUNICATE WITH THE BUILDING AUTOMATION SYSTEM (BAS) THROUGH AN RS485 INTERFACE WITHIN AN OPEN PROTOCOL NETWORK. COORDINATE WORK WITH SYSTEM VENDOR.
 G. PROGRAM OVERRIDE 'ON' FOR 120 MINUTES.

COOPER – INTELLIGENT LIGHTING CONTROLS
 LL40-EM RELAY PANEL



DATE	05/07/2024	SUBMISSION	100% CD
REVISION 1		REVISION	
REVISION 2			
REVISION 3			
REVISION 4			
REVISION 5			
REVISION 6			
REVISION 7			

Smithsonian
Institution

Smithsonian Facilities
 600 Maryland Avenue S.W. Suite 5001
 Washington, DC 20560

BUILDING NAME	INTERNATIONAL GALLERY
ADDRESS	1100 JEFFERSON DR SW WASHINGTON DC 20004
PROJECT TITLE	QUAD REPLACE TRACK LIGHTING AT INTL GALLERY
SF PROJECT NUMBER	2109103
V/E PROJECT NUMBER	55-23102-00
DRAWING TITLE	LIGHTING_RELAY_SCHEDULE
DRAWING TYPE	SH
DESIGNED BY	
DRAWN BY	
CHECKED BY	
E-701	E SH 701
0_OF_9	DISCIPLINE TYPE SEQUENCE