

Pennsylvania Convention Center

Elliott Lewis Labor Entrance
 1101 Arch Street
 Philadelphia, PA 19107



AN **SMG** MANAGED FACILITY

Dimitri J. Ververelli, Inc.

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SYMBOLS

- CALLOUT TAG
- CENTERLINE
- ELEVATION MARK
- GRID HEAD - CIRCLE
- KEYNOTE NUMBER - NEW WORK
- KEYNOTE NUMBER - DEMO WORK
- REVISION TAG
- Room name**
 ROOM TAG
- SECTION MARKER
- VIEW REFERENCE
- VIEW TITLE
- WALL TAG
- NORTH ARROW

GENERAL NOTES:

- ALL WORK TO BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES, ACCEPTED INDUSTRY STANDARDS AND PENNSYLVANIA CONVENTION CENTER STANDARDS, UNLESS NOTED OTHERWISE.
- VERIFY ALL EXISTING CONDITIONS REQUIREMENTS. REPORT ANY DISCREPANCIES TO ARCHITECT AND OWNER BEFORE PROCEEDING WITH WORK.
- ALL WORK SHALL BE SCHEDULED AND IMPLEMENTED WITH MINIMAL DISRUPTION TO ADJACENT OCCUPIED AREAS. COORDINATE WITH OWNER.
- PROTECT EXISTING FINISHES DURING DEMOLITION & CONSTRUCTION; RESTORE ALL DAMAGED FINISHED TO "AS-NEW" CONDITION.
- SCHEDULE ALL SHUTDOWNS THAT AFFECT PUBLIC UTILITIES AND/OR BUILDING OPERATIONS WITH OWNER.
- ALL MEANS OF EGRESS AND LIFE SAFETY ROUTES ARE TO REMAIN ACCESSIBLE DURING CONSTRUCTION. FIRE ALARM, FIRE PROTECTION AND SMOKE DETECTION SYSTEMS SHALL REMAIN OPERATIONAL AT ALL TIMES.
- CONTRACTOR SHALL PROVIDE INTERIM LIFE SAFETY SIGNAGE AS REQUIRED TO FACILITATE CONSTRUCTION, AND SHALL COORDINATE THIS WITH OWNER PRIOR TO IMPLEMENTATION.
- PRIOR TO START OF WORK, PROVIDE TEMPORARY PARTITIONS, DUST PROTECTION, TACK MATS, ETC., AS REQUIRED. COORDINATE ALL LOCATIONS WITH ARCHITECT AND OWNER.
- MAINTAIN ACCESS TO EXIT STAIRS AT ALL TIMES. FIRE PROTECTION SYSTEM TO REMAIN OPERATIONAL CONTINUOUSLY THROUGH ALL CONSTRUCTION PHASES.
- THOROUGHLY CLEAN ALL AREAS AND SPACES USED TO ACCESS WORK AREA; AND BROOM CLEAN AT THE END OF EACH WORK DAY.
- ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED IN THE FIELD. THE ARCHITECT SHALL BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES.
- CONTRACTOR SHALL PROVIDE INDUSTRY STANDARD SHOP DRAWINGS, PRODUCT LITERATURE AND PHYSICAL SAMPLES FOR ALL SPECIFIED PRODUCTS. SHOP DRAWINGS SHALL FURTHER DEVELOP THE INFORMATION GIVEN AND NOT BE A COPY OF THE CONTRACT DOCUMENTS. ALL SUBMITTALS MUST BE APPROVED BY ARCHITECT AND OWNER PRIOR TO PURCHASE AND INSTALLATION.
- GC TO COMPLY WITH ALL PRODUCT MANUFACTURER INSTRUCTIONS, SPECIFICATIONS AND RECOMMENDATIONS FOR HANDLING, STORING, SURFACE PREP, INSTALLATION AND CLEANING UNLESS OTHERWISE DIRECTED BY OWNER OR ARCHITECT.
- GC AND SUB CONTRACTORS TO COMPLY WITH ALL TESTING AGENCIES AND ORGANIZATIONS PROVIDING STANDARDS PERTAINING TO THE QUALITY OF THE PRODUCTS AND THEIR INSTALLATION.

DEMOLITION NOTES:

- REMOVE EXISTING BASEBOARD AND GWB AT WALLS AND CEILING ABOVE. REPLACE WITH 1/2" AC PLYWOOD AT WALLS AND GWB AT CEILING, TYP.
- DEMOLITION WORK SHALL BE SCHEDULED AND IMPLEMENTED WITH MINIMAL DISRUPTION TO ADJACENT OCCUPIED AREAS.
- REVIEW ALL ITEMS TO BE DEMOLISHED AND IDENTIFY ALL ITEMS TO BE SALVAGED WITH THE OWNER.
- REMOVE ALL MATERIALS IN A SAFE WORKMANLIKE MANNER AND DISPOSE OF PER ALL APPLICABLE CODES & SAFETY REQUIREMENTS.
- DISPOSE OF PER ALL APPLICABLE CODES & SAFETY REQUIREMENTS OF ALL BUILT-IN AND WALL MOUNTED APPURTENANCES: INTERIOR WINDOW, RECEPTACLES, SWITCHES, THERMOSTATS, SHELVES & WALL STANDARDS, ETC.

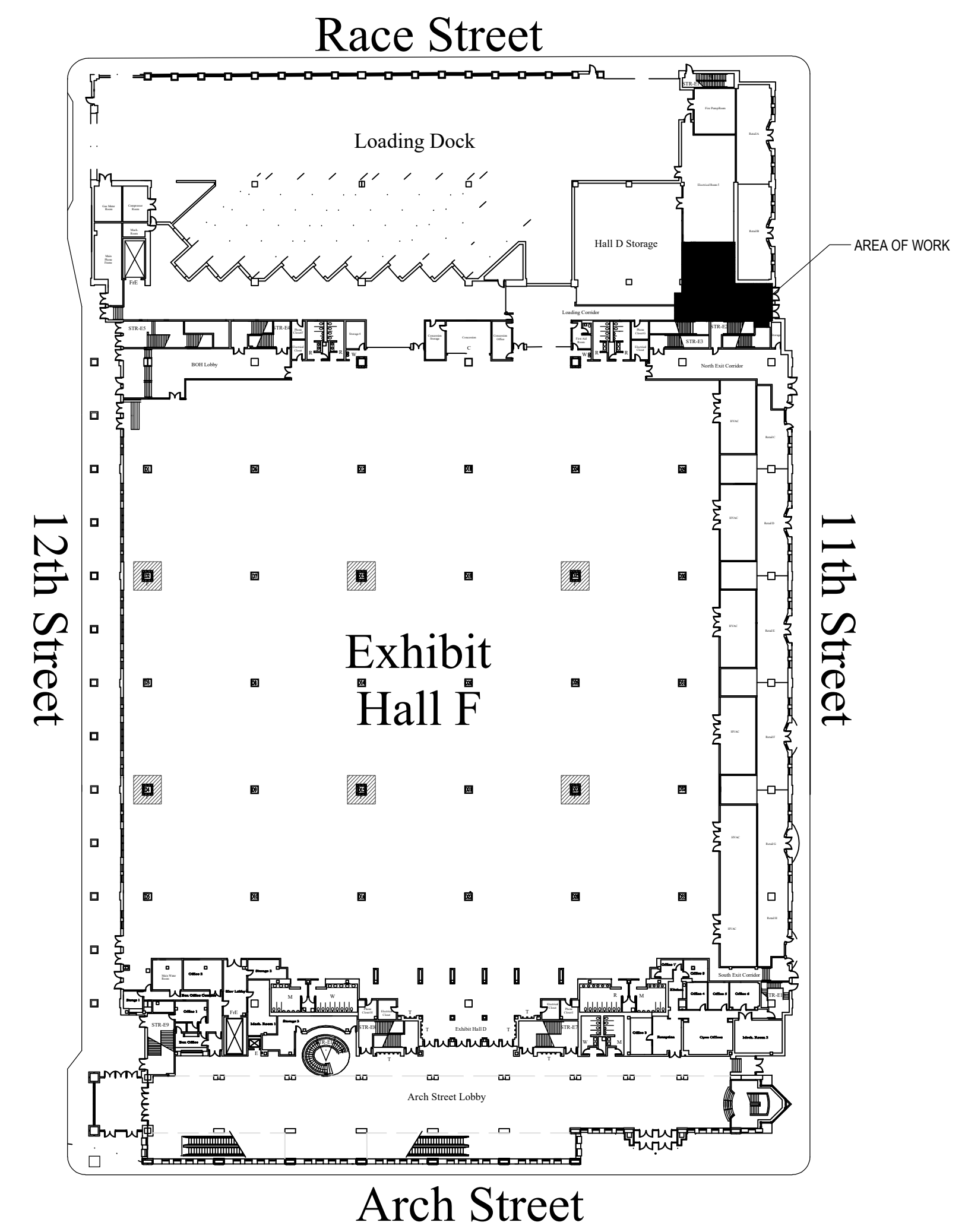
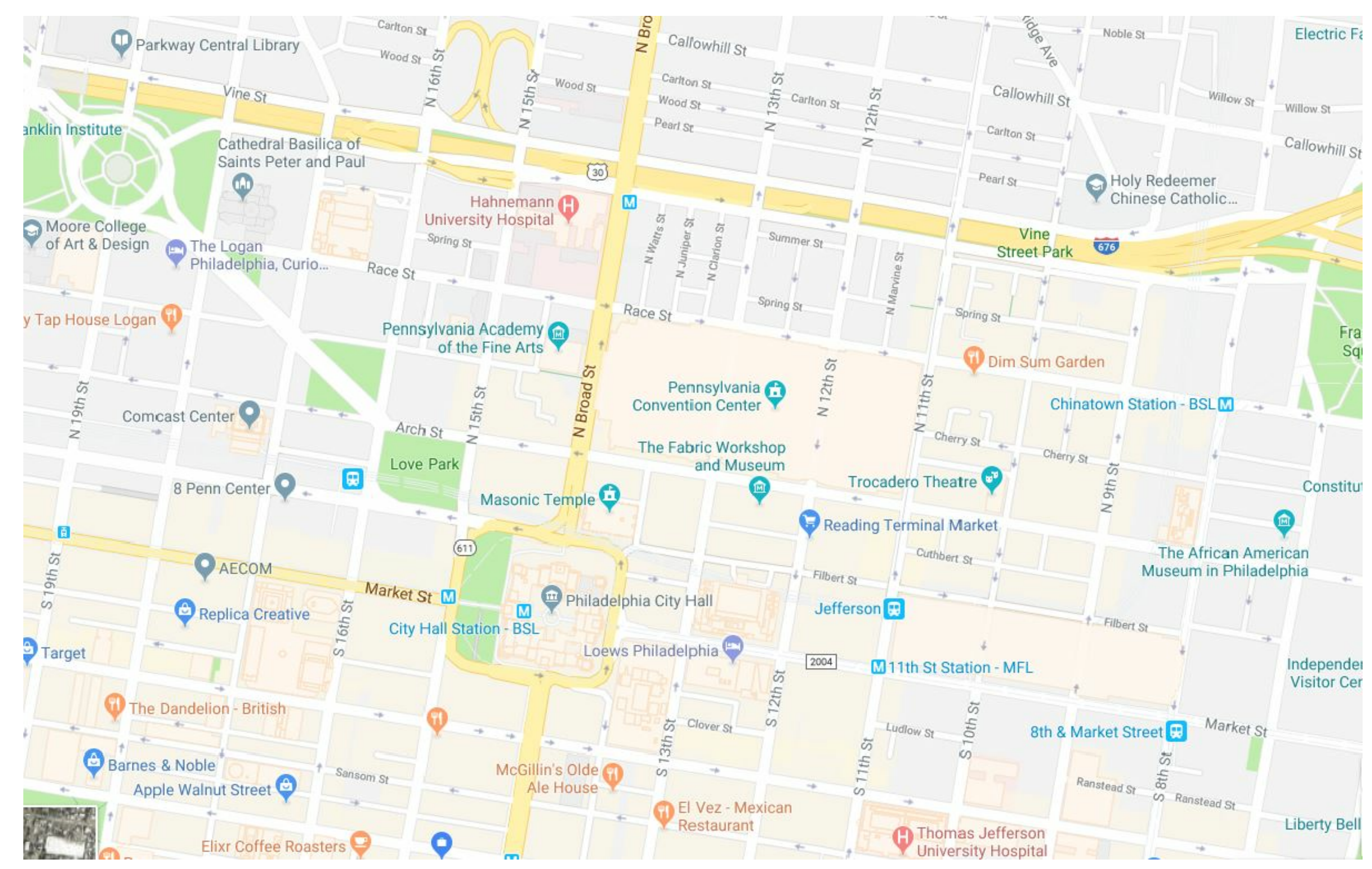
CONSTRUCTION NOTES:

- ALL PENETRATIONS THROUGH FIRE PARTITIONS TO BE SEALED WITH U.L. APPROVED MATERIALS. FIRE SAFE & FIRE SEAL TOP RUNNER OF ALL RATED PARTITIONS TO STEEL FLUTES.
- FIRE DAMPERS SHALL BE RELOCATED/INSTALLED AS REQUIRED BY CODE.
- PATCH ALL AREAS AFFECTED BY DEMOLITION. NEW SURFACES TO MATCH ADJACENT AREAS. RETURN TO CONDITION PRIOR TO START OF WORK ADJACENT AREAS.
- WHERE EXISTING FINISHES ARE TO REMAIN:
 - PATCH/REPLACE DAMAGE, STAINED OR MISSING SECTIONS VINYL COMPOSITION TILE AS REQUIRED.
 - REPLACE DAMAGED, STAINED OR MISSING SECTIONS OF RUBBER.
 - TOUCH UP FINISH OF CEILING GRID; REPLACE DAMAGED SECTIONS.
 - REPLACE DAMAGED, STAINED OR MISSING ACOUSTICAL CEILING TILES.
 - TOUCH UP ANY OTHER FINISHES AS REQUIRED.

SCOPE OF WORK:

- BASE - INSTALL FOUR (4) DROP ARM TURNSTILES; THREE (3) TYPICAL AND ONE (1) ADA ACCESSIBLE IN THE LOBBY AS SHOWN ON THE DRAWINGS. TURNSTILES TO BE PEREY TURNSTILES MODEL 151SR DROP ARM TURNSTILES, NO SUBSTITUTIONS WILL BE ACCEPTED.
- ALTERNATE - RENOVATE ENTRY PORTION OF ADJACENT OFFICE AREA INCLUDING DEMO OF EXISTING KITCHENETTE THAT PROTRUDES INTO LOBBY AREA. UPDATED LAYOUT INCLUDING NEW FINISHES, MILLWORK, CEILINGS AND LIGHTING AS SHOWN.

DRAWING LIST		PROGRESS REVIEW SET	100% BID/PERMIT SET
DWG. NO.	DWG. NAME	JUNE 25, 2021	AUGUST 13, 2021
ARCHITECTURAL			
CS	COVER SHEET	X	X
G1.01	SPECIFICATIONS AND PROJECT STANDARDS	X	X
LS1.01	LIFE SAFETY PLAN		X
A1.01	FLOOR PLANS - DEMOLITION AND NEW WORK	X	X
A2.01	REFLECTED CEILING PLANS - DEMOLITION AND NEW WORK	X	X
A3.01	MILLWORK DETAILS	X	X
MEP ENGINEERING			
MCS	MECHANICAL COVER SHEET	X	X
M1.0	DEMOLITION & NEW WORK PLANS	X	X
M2.0	MECHANICAL SCHEDULES AND DETAILS	X	X
M2.1	MECHANICAL SCHEDULES AND DETAILS - CONTINUED	X	X
M3.0	MECHANICAL SPECIFICATIONS	X	X
ECS	ELECTRICAL COVER SHEET	X	X
E0-01	ELECTRICAL DEMOLITION PLAN	X	X
E1-01	ELECTRICAL NEW WORK PLANS	X	X
E2-01	ELECTRICAL SCHEDULES AND DETAILS	X	X



1 SITE PLAN
 CS.01 SCALE: N.T.S.

2 KEY PLAN - GROUND FLOOR
 CS.01 SCALE: 1/64" = 1'-0"

GENERAL SPECIFICATIONS:

SELECTIVE DEMOLITION:

- VERIFY ALL EXISTING CONDITIONS BEFORE BEGINNING WORK AND REPORT ANY EXISTING CONDITIONS THAT DEVIATE FROM WHAT'S DOCUMENTED IN THE ARCHITECT'S DRAWINGS, OR ANY HAZARDOUS MATERIALS OR CONDITIONS. REPORT ANY DISCREPANCIES TO ARCHITECT AND OWNER BEFORE PROCEEDING WITH WORK.
- INVENTORY AND RECORD THE CONDITION OF ITEMS TO BE REMOVED AND REINSTALLED AND ITEMS TO BE REMOVED AND SALVAGED.
- DEMOLISH AND REMOVE EXISTING CONDITIONS ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. USE METHODS REQUIRED TO COMPLETE THE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS. PROCEED WITH SELECTIVE DEMOLITION SYSTEMATICALLY, FROM HIGHER TO LOWER AND NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE, AND TRUE TO DIMENSIONS REQUIRED.
- DISPOSE OF DEMOLISHED ITEMS AND MATERIALS PROMPTLY BY REMOVING ITEMS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL.
- PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING SELECTIVE DEMOLITION. RESTORE FINISHES TO PATCHED OR REPAIRED AREAS. RETURN ADJACENT AREAS AFFECTED BY DEMOLITION TO CONDITION EXISTING BEFORE SELECTIVE DEMOLITION OPERATIONS BEGAN.

JOINT SEALANTS:

- PROVIDE JOINT SEALANTS FOR INTERIOR APPLICATIONS THAT ESTABLISH AND MAINTAIN AIRTIGHT AND WATER-RESISTANT CONTINUOUS JOINT SEALS WITHOUT STAINING OR DETERIORATING JOINT SUBSTRATES.

PLASTIC LAMINATE FACED MILLWORK:

- WHERE CABINETS ARE INDICATED TO FIT TO OTHER CONSTRUCTION, VERIFY DIMENSION OF OTHER CONSTRUCTION BEFORE FABRICATION AND INDICATE MEASUREMENTS ON SHOP DRAWINGS. COORDINATE FABRICATION SCHEDULE WITH CONSTRUCTION PROCESS TO AVOID DELAYING THE WORK.
- DO NOT DELIVER MILLWORK, PAINTING AND OTHER SIMILAR OPERATIONS THAT COULD DAMAGE WOODWORK HAVE BEEN COMPLETED IN INSTALLATION AREAS.
- COORDINATE SIZES AND LOCATIONS OF FRAMING, BLOCKING, FURRING, REINFORCEMENTS, AND OTHER RELATED UNITS OF WORK SPECIFIED TO ENSURE THAT CABINETS CAN BE SUPPORTED AND INSTALLED AS DIRECTED.

HOLLOW METAL DOORS AND FRAMES:

- MANUFACTURE ALL DOORS AND FRAMES OF COMMERCIAL QUALITY COLD ROLLED STEEL PER ASTM-A366 GALVANIZED TO A60 OR G60 MINIMUM COATING WEIGHT STANDARDS PER ASTM-A924. INTERNAL REINFORCING MAY BE MANUFACTURED OF HOT ROLLED PICKLED AND OILED STEEL PER ASTM-A999.
- FABRICATE SUPPORTS AND ANCHORS OF NOT LESS THAN 18-GAUGE SHEET STEEL, GALVANIZED WHERE GALVANIZED FRAMES ARE USED.
- PROVIDE 1-3/4" THICK DOORS OF ANSI A250.8 GRADES AND MODELS. PROVIDE DOOR FACE TYPES AS SHOWN ON THE DRAWINGS. ALL DOORS ARE TO BE STEEL STIFFENED WITH 18 GAUGE RIBS SPACED SIX (6) INCHES ON CENTER. FILL VOIDS BETWEEN RIBS WITH FIBERGLASS BATT INSULATION. FABRICATE ALL DOORS FROM A60 OR G60 ZINC COATED STEEL.
- FABRICATE HOLLOW METAL FRAMES FOR DOORS AND OTHER OPENINGS AS SHOWN ON THE DRAWINGS AND SCHEDULES. CONCEAL FASTENINGS UNLESS OTHERWISE INDICATED. FABRICATE ALL FRAMES FROM A60 OR G60 ZINC COATED STEEL.
- FABRICATE STEEL DOOR AND FRAME UNITS TO BE RIGID, NEAT IN APPEARANCE, AND FREE FROM DEFECTS, WARP, OR BUCKLE. WHERE PRACTICAL, FIT AND ASSEMBLE UNITS IN MANUFACTURER'S PLANT.
- CLEARANCES: NO MORE THAN 1/8" AT JAMBS AND HEADS EXCEPT BETWEEN NON FIRE RATED PAIRS OF DOORS WHICH MAY BE NO MORE THAN 1/4" NOT MORE THAN 3/4" AT THE BOTTOM OF THE DOORS.
- UNLESS OTHERWISE INDICATED, PROVIDE EXPOSED FASTENERS WITH COUNTERSUNK FLAT OR OVAL HEADS FOR EXPOSED SCREWS AND BOLTS.
- PREPARE DOORS AND FRAMES TO RECEIVE MORTISED AND CONCEALED HARDWARE ACCORDING TO FINAL DOOR HARDWARE SCHEDULE AND TEMPLATES PROVIDED BY HARDWARE SUPPLIER. COMPLY WITH APPLICABLE REQUIREMENTS OF ANSI A250.6.
- LOCATE HARDWARE AS INDICATED ON SHOP DRAWINGS, OR, IF NOT INDICATED, ACCORDING TO THE DOOR AND HARDWARE INSTITUTE'S (DHI) "RECOMMENDED LOCATIONS FOR ARCHITECTURAL HARDWARE FOR STANDARD STEEL DOORS AND FRAMES."
- COMPLY WITH PROVISIONS OF ANSI A250.11 FOR INSTALLATION. SET FRAMES ACCURATELY IN POSITION, PLUMBED, ALIGNED, AND BRACED SECURELY UNTIL PERMANENT ANCHORS ARE SET. AFTER WALL CONSTRUCTION IS COMPLETED, REMOVE TEMPORARY BRACES AND SPREADERS. LEAVING SURFACE SMOOTH AND UNDAMAGED. FIT HOLLOW METAL DOORS ACCURATELY IN FRAMES, WITHIN CLEARANCES SPECIFIED IN ANSI A250.8. INSTALL FIRE RATED DOORS WITH CLEARANCES SPECIFIED IN NFPA 80.

FLUSH WOOD DOORS

- DOORS TO BE CUSTOM GRADE A FACES WITH MANUFACTURER'S STANDARD FIVE (5) PLY CONSTRUCTION. RANDOM MATCHED ROTARY NATURAL BIRCH VENEER WITH STAIN TO MATCH EXISTING DOORS IN ADJACENT OFFICES.
- FACTORY FIT DOORS TO SUIT FRAME-OPENING SIZES INDICATED. COMPLY WITH CLEARANCE REQUIREMENTS OF WDMA I.S. 1A-97 FOR FITTING. COMPLY WITH REQUIREMENTS OF NFPA 80 FOR FIRE-RATED DOORS.
- FACTORY MACHINE DOORS FOR MORTISED HARDWARE. LOCATE HARDWARE TO COMPLY WITH DHI-WHDS-3. COMPLY WITH FINAL HARDWARE SCHEDULES, DOOR FRAME SHOP DRAWINGS, DHI AT15-W SERIES STANDARDS, AND HARDWARE TEMPLATES.
- EXAMINE INSTALLED DOOR FRAMES BEFORE HANGING DOORS TO VERIFY THAT FRAMES COMPLY WITH INDICATED REQUIREMENTS FOR TYPE, SIZE, LOCATION AND SWING CHARACTERISTICS AND HAVE BEEN INSTALLED WITH PLUMB JAMBS AND LEVEL HEADS. REJECT DOORS WITH DEFECTS.

DOOR HARDWARE

- CONDUCT A PRE-INSTALLATION CONFERENCE AT PROJECT SITE TO REVIEW AND VERIFY ALL HARDWARE, KEYING AND LOCK SETS BEFORE INSTALLATION.
- PRIOR TO INSTALLATION OF HARDWARE, EXAMINE DOORS AND FRAMES, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES, LABELED FIRE-RATED DOOR ASSEMBLY CONSTRUCTION, WALL AND FLOOR CONSTRUCTION, AND OTHER CONDITIONS AFFECTING PERFORMANCES.
- ADJUST AND CHECK EACH OPERATING ITEM OF DOOR HARDWARE AND EACH DOOR TO ENSURE PROPER OPERATION OR FUNCTION OF EVERY UNIT. REPLACE UNITS THAT CANNOT BE ADJUSTED TO OPERATE AS INTENDED. ADJUST DOOR CONTROL DEVICES TO COMPENSATE FOR FINAL OPERATION OF HEATING AND VENTILATING EQUIPMENT AND TO COMPLY WITH REFERENCED ACCESSIBILITY REQUIREMENTS.
- HARDWARE SETS ARE AS FOLLOWS:
 - HARDWARE SET 1
 - 3 EA HINGES
 - 1 EA ENTRY LOCK
 - 1 EA FLUSH BOLT
 - 1 EA WALL STOP
 - 1 EA DOOR CLOSER
 - 3 EA SILENCERS
 - HARDWARE SET 2
 - 1 EA SLIDING TRACK
 - 1 EA HANDLE
 - HARDWARE SET 3
 - 3 EA HINGES
 - 1 EA STORE ROOM LOCK
 - 1 EA WALL STOP
 - 3 EA SILENCERS

GYPSUM BOARD:

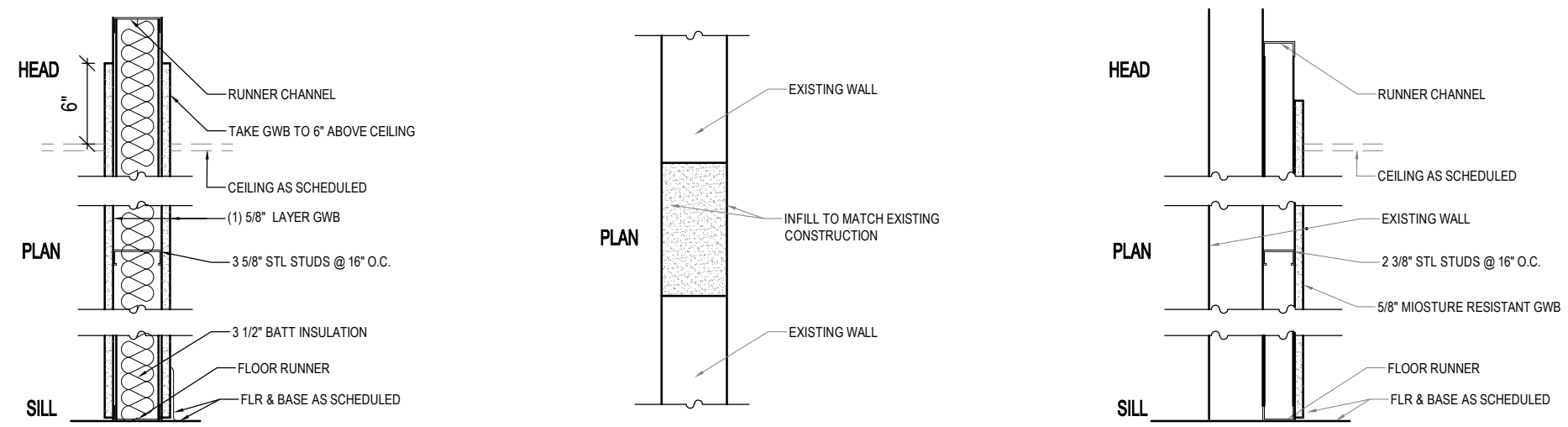
- STORE MATERIALS INSIDE UNDER COVER AND KEEP THEM DRY AND PROTECTED AGAINST DAMAGE FROM WEATHER, CONDENSATION, DIRECT SUNLIGHT, CONSTRUCTION TRAFFIC, AND OTHER CAUSES. STACK PANELS FLAT TO PREVENT SAGGING. EXAMINE AREAS AND SUBSTRATES, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS AND OTHER CONDITIONS AFFECTING PERFORMANCE.
- EXAMINE PANELS BEFORE INSTALLATION AND REJECT PANELS THAT ARE WET, MOISTURE DAMAGED, AND MOLD DAMAGED OR SAGGING OR WARPED.
- INSTALL PANELS WITH FACE SIDE OUT. BUTT PANELS TOGETHER FOR A LIGHT CONTACT AT EDGES AND ENDS WITH NOT MORE THAN 1/16 INCH OF OPEN SPACE BETWEEN PANELS. DO NOT FORCE INTO PLACE.
- INSTALL TRIM AT THE FOLLOWING LOCATIONS: CORNER BEAD AT OUTSIDE CORNERS, LC-BEAD AT EXPOSED PANEL EDGES. DO NOT USE U-BEAD.
- TREAT GYPSUM BOARD JOINTS, INTERIOR ANGLES, EDGE TRIM, PENETRATIONS, FASTENER HEADS, SURFACE DEFECTS, AND ELSEWHERE AS REQUIRED TO PREPARE GYPSUM BOARD SURFACES FOR DECORATION. PROMPTLY REMOVE RESIDUAL JOINT COMPOUND FROM ADJACENT SURFACES.

ACOUSTIC PANEL CEILINGS:

- DELIVER ACOUSTIC PANELS, SUSPENSION SYSTEM COMPONENTS, AND ACCESSORIES TO PROJECT SITE IN ORIGINAL UNOPENED PACKAGES AND STORE THEM IN A FULLY ENCLOSED, CONDITIONED SPACE WHERE THEY WILL BE PROTECTED AGAINST DAMAGE FROM MOISTURE, HUMIDITY, TEMPERATURE EXTREMES, DIRECT SUNLIGHT, SURFACE CONTAMINATION, AND OTHER CAUSES.
- ENVIRONMENTAL LIMITATIONS: DO NOT INSTALL ACOUSTICAL PANEL CEILINGS UNTIL SPACES ARE ENCLOSED AND WEATHERPROOF. WET WORK IN SPACES IS COMPLETELY DRY, WORK ABOVE CEILINGS IS COMPLETE, AND AMBIENT TEMPERATURE AND HUMIDITY CONDITIONS ARE MAINTAINED AT THE LEVELS INDICATED FOR PROJECT WHEN OCCUPIED FOR ITS INTENDED USE. BASIS OF DESIGN PRODUCT: ARMSTRONG, CORTEGA, ITEM NO. 703 WHITE WITH ANGLED REGULAR REVEAL 15/16" TO FIT FLANGE OF EXPOSED SUSPENSION SYSTEM; PRELUDE XL EXPOSED TEE.
- PROVIDE MANUFACTURER'S STANDARD DIRECT-HUNG METAL SUSPENSIONS SYSTEMS OF TYPES, STRUCTURAL CLASSIFICATIONS, AND FINISHES INDICATED THAT COMPLY WITH APPLICABLE REQUIREMENTS IN ASTM C 635.
- EXAMINE SUBSTRATES, AREAS, AND CONDITIONS, INCLUDING STRUCTURAL FRAMING TO WHICH ACOUSTICAL PANEL CEILINGS ATTACH TO OR ABUT, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS SPECIFIED IN THIS AND OTHER SECTIONS THAT AFFECT CEILING INSTALLATION AND ANCHORAGE AND WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF ACOUSTICAL PANEL CEILING.
- MEASURE EACH CEILING AREA AND ESTABLISH LAYOUT OF ACOUSTICAL PANELS TO BALANCE BORDER WIDTHS AT OPPOSITE EDGES OF EACH CEILING. AVOID USING LESS-THAN-HALF-WIDTH PANELS AT BORDERS, AND COMPLY WITH LAYOUT SHOWN ON REFLECTED CEILING PLANS.
- INSTALL HANGERS PLUMB AND FREE FROM CONTACT WITH INSULATION OR OTHER OBJECTS WITHIN CEILING PLENUM THAT ARE NOT PART OF SUPPORTING STRUCTURE OR OF CEILING SUSPENSION SYSTEM. SPLAY HANGERS ONLY WHERE REQUIRED TO MISS OBSTRUCTIONS; OFFSET RESULTING HORIZONTAL FORCES BY BRACING, COUNTERPLAYING, OR OTHER EQUALLY EFFECTIVE MEANS.
- WHERE WIDTH OF DUCTS AND OTHER CONSTRUCTION WITHIN CEILING PLENUM PRODUCES HANGER SPACINGS THAT INTERFERE WITH LOCATION OF HANGERS AT SPACINGS REQUIRED TO SUPPORT STANDARD SUSPENSION SYSTEM MEMBERS, INSTALL SUPPLEMENTAL SUSPENSION MEMBERS AND HANGERS IN FORM OF TRAPEZES OR EQUIVALENT DEVICES. SIZE SUPPLEMENTAL SUSPENSION MEMBERS AND HANGERS TO SUPPORT CEILING LOADS WITHIN PERFORMANCE LIMITS ESTABLISHED BY REFERENCES STANDARDS AND PUBLICATIONS.
- DO NOT SUPPORT CEILINGS DIRECTLY FROM PERMANENT METALS FORMS OR FLOOR DECK. FASTEN HANGERS TO CAST-IN-PLACE HANGER INSERTS, POSTINSTALLED MECHANICAL OR ADHESIVE ANCHORS, OR POWER-ACTUATED FASTENERS THAT EXTEND THROUGH FORMS INTO CONCRETE. DO NOT ATTACHED HANGERS TO STEEL DECK TABLS OR STEEL ROOF DECK. ATTACH HANGERS TO STRUCTURAL MEMBERS.
- SPACE HANGERS NOT MORE THAN 48 INCHES O.C. ALONG EACH MEMBER SUPPORTED DIRECTLY FROM HANGERS, UNLESS OTHERWISE INDICATED; PROVIDE HANGERS NOT MORE THAN 8 INCHES FROM ENDS OF EACH MEMBER.
- SECURE BRACING WIERS TO CEILING SUSPENSION MEMBERS AND TO SUPPORTS WITH A MINIMUM OF FOUR TIGHT TURNS. SUSPEND BRACING FROM BUILDING'S STRUCTURAL MEMBERS AS REQUIRED FOR HANGERS, WITHOUT ATTACHING TO PERMANENT METAL FORMS, STEEL DECK, OR STEEL DECK TABS. FASTEN BRACING WIERS INTO CONCRETE WITH CAST-IN-PLACE OR POSTINSTALLED ANCHORS.
- INSTALL ACOUSTICAL PANELS WITH UNDAMAGED EDGES AND FIT ACCURATELY INTO SUSPENSION SYSTEM RUNNERS AND EDGE MOULDINGS. SCRIBE AND CUT PANELS AT BORDERS AND PENETRATIONS TO PROVIDE A NEAT, PRECISE FIT.

SPECIALTY EQUIPMENT

- EXAMINE ALL SURFACES TO BE IMPACTED BY INSTALLATION OF SPECIALTY PRODUCTS AND ENSURE ALL AREAS ARE CLEAN, FREE OF EXISTING DEVICES, OBSTRUCTIONS AND ALL MOUNTING OR ATTACHMENT AREAS PROVIDE A SMOOTH, PLUMB AND LEVEL SURFACE FOR INSTALLATION.
- ALL WIRING FOR SPECIALTY ITEMS TO BE FED THROUGH THE WALLS, NO FLOOR CORING IS TO BE DONE FOR THIS SCOPE OF WORK. IF THIS IS NOT POSSIBLE, DISCUSS OPTIONS WITH OWNER AND ARCHITECT BEFORE PROCEEDING WITH WORK.
- FIELD VERIFY ALL SITE CONDITIONS FOR SHOP DRAWINGS TO ENSURE ALL SPECIALTY EQUIPMENT IS SIZED ACCORDING TO THE SPACE AVAILABLE.
- PROVIDE PERLEY TURNSTILES MODEL 151SR/FL DROP ARM TURNSTILES WHERE INDICATED ON PLAN. NO SUBSTITUTIONS WILL BE ACCEPTED.



A PARTITION TYPE
SCALE: 1 1/2" = 1'-0"
TYP. NON-RATED PARTITION

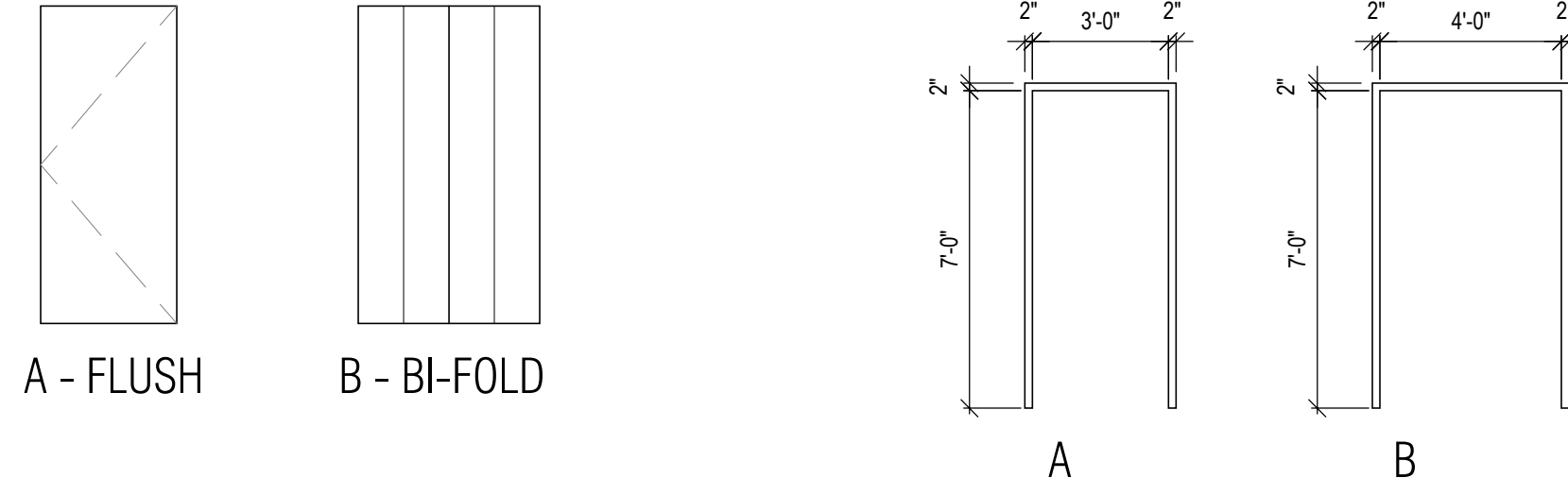
B PARTITION TYPE
SCALE: 1 1/2" = 1'-0"
CONSTRUCTION TO MATCH EXISTING PARTITION

C PARTITION TYPE
SCALE: 1 1/2" = 1'-0"
TYP. NON-RATED CHASE PARTITION

HARDWARE SETS:

- ENTRY LOCK SET WITH TURN BOLT
- SLIDING DOOR TRACK W/ HANDLES
- STORAGE LOCK SET

* REFER TO SPECIFICATIONS FOR FULL HARDWARE SET
** CONSULT WITH USERS TO DETERMINE KEYING



DOOR TYPES
SCALE: 1/4" = 1'-0"

FRAME TYPES
SCALE: 1/4" = 1'-0"

DOOR SCHEDULE												
TAG	ROOM	DOORS					FRAMES			HDWR	FIRE RTG	COMMENT
		HEIGHT	WIDTH	THK	TYPE	MAT	TYPE	MAT				
EX	EXISTING DOORS	EX	EX	EX	EX	EX	EX	EX	EX	EX	-	PAINT EXISTING DOOR AND FRAME
02	ENTRY	7'-0"	3'-0"	1-3/4"	A	HM	A	HM	01	-	-	
03	CLOSET	7'-0"	4'-0" PR	1-3/4"	B	WD	B	HM	02	-	-	
05	STORAGE ROOM	7'-0"	3'-0"	1-3/4"	A	WD	A	HM	03	-	-	

CONTRACTOR TO VERIFY ALL EXISTING DOOR OPENINGS IN FRAMES TO REMAIN BEFORE SUBMITTING SHOP DRAWINGS.

ROOM FINISH SCHEDULE									
ROOM	TAG	BASE	FLOORING	WALLS				CEILING	COMMENTS
				NORTH	EAST	SOUTH	WEST		
OPEN OFFICE	01	B-1	CT-1	PT-1	PT-1	PT-1	PT-2	ACT-1	WRAP PT-2 ALONG NORTH WALL TO KITCHENETTE
ENTRY	02	B-1	CT-1	PT-1	PT-1	PT-1	PT-2	ACT-1	-
CLOSET	03	B-1	CT-1	PT-1	PT-1	PT-1	PT-1	ACT-1	PT-2 ON ALL OUTSIDE WALLS OF CLOSET
OPEN OFFICE	04	B-1	CT-1	PT-1	PT-1	PT-1	PT-2	ACT-1	-
FILING	05	B-1	LVT-1	PT-1	PT-1	PT-1	PT-1	ACT-1	-
KITCHENETTE	06	B-1	LVT-1	PT-1	PT-1	PT-1	PT-2	ACT-1	-
LOBBY - EAST	15	B-2	CT-2	PT-4	PT-4	PT-4	PT-4	ACT-1	-
LOBBY - WEST	16	B-2	CT-2	PT-4	PT-4	PT-4	PT-4	ACT-1	-

FINISH SCHEDULE						
TAG	FINISH	MANUFACTURER	MODEL	COLOR	SIZE	COMMENT
PT-1	FIELD PAINT	SHERWIN WILLIAMS	PCCA CUSTOM COLOR	PH11	-	EGGSHELL
PT-2	ACCENT PAINT	SHERWIN WILLIAMS	PCCA CUSTOM COLOR	PH10	-	EGGSHELL
PT-3	DOOR FRAME PAINT	SHERWIN WILLIAMS	PCCA CUSTOM COLOR	TO MATCH	-	SEMIGLOSS - MATCH ADJACENT WALL COLOR
PT-4	MATCH FIELD PAINT	SHERWIN WILLIAMS	PCCA CUSTOM COLOR	MATCH EXISTING	-	EGGSHELL - MATCH EXISTING WALL COLOR
B-1	VINYL COVE BASE	ROPPE	PINNACLE - STANDARD	114 LUNAR DUST	4" HIGH	-
B-2	VINYL COVE BASE	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	4" HIGH	PATCH EXISTING IN CORRIDORS AS NEEDED
ACT-1	CEILING TILE	ARMSTRONG	CORTEGA	WHITE	24X48	PRELUDE XL 15/16" EXPOSED TEE WHERE REQUIRED
LVT-1	VINYL FLOORING	ALTRO	LEVINCIA PLUS	PERSIMMON	7" X 48"	-
PL-1	PLASTIC LAMINATE	WILSONART	LEON WEAVE FINISH	5012K-19 MAGNOLIA	-	-
PL-2	PLASTIC LAMINATE	WILSONART	MATTE FINISH	4820-60 CARBON EV	-	-
CT-1	CARPET TILE	J+J FLOORING	TONE	1758 FINALE	24" X 24"	INSTALLED IN PREVIOUS PHASE. INFO PROVIDED FOR PATCHING ONLY
CT-2	WALK-OFF CARPET TILE	J+J FLOORING	RUNWAY II	1423 TOP MODEL	24" X 24"	-

KMA

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Pennsylvania Convention Center PHILADELPHIA
AN **SMG** MANAGED FACILITY

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SUBMISSION		
NO.	ISSUE:	DATE:
1	Bid Review Set	06.25.21
2	100% Bid Set	08.13.21

All conditions must be verified by the contractor at the site. Notify the Architect of any discrepancies before proceeding with the work.

DO NOT SCALE DRAWINGS.

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PROJECT NO.: 20230

DATE: AUGUST 13, 2021

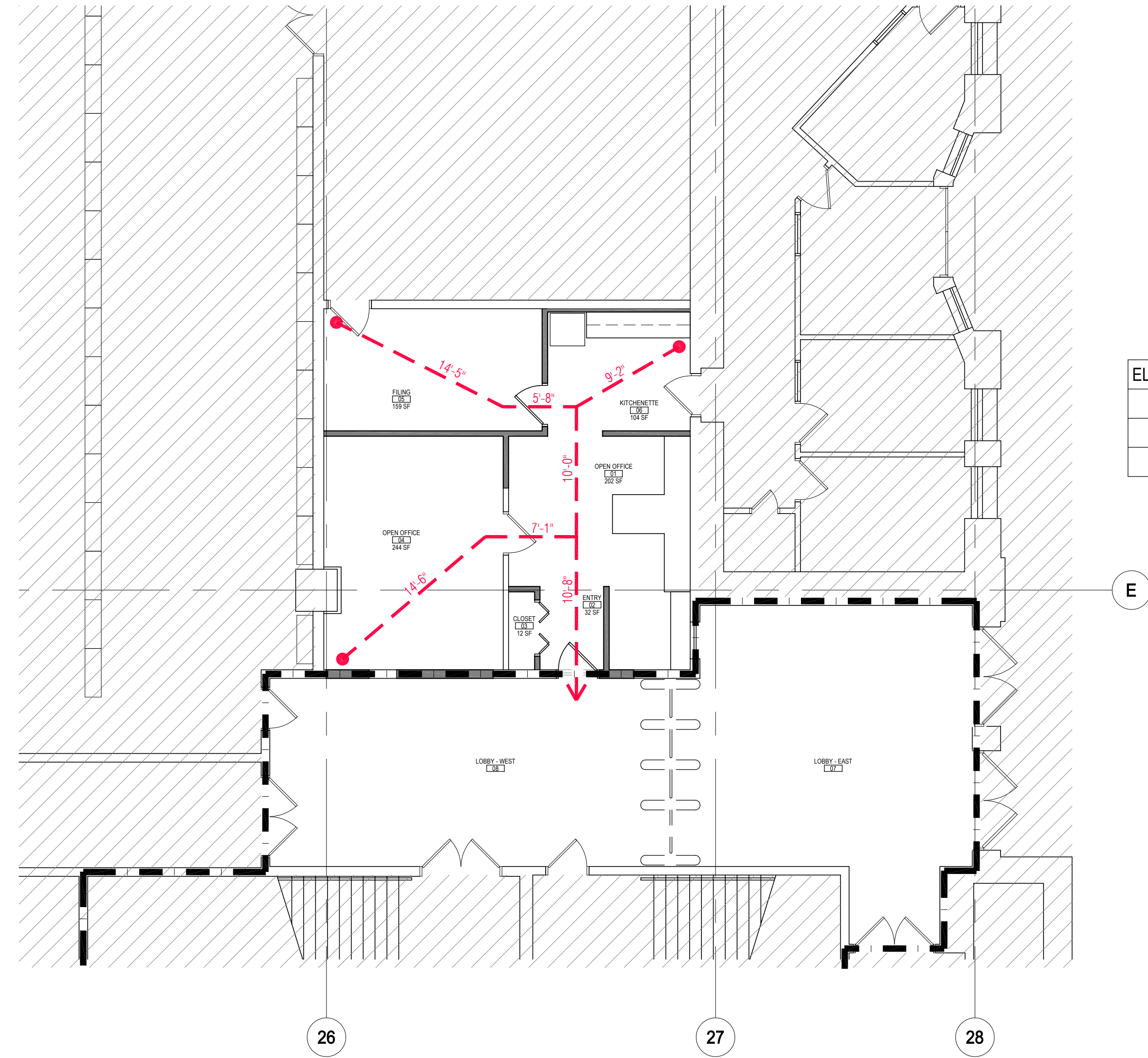
SCALE: AS NOTED

DRAWN: KMA

DRAWING TITLE:

SPECIFICATIONS AND GENERAL PROJECT INFORMATION

DRAWING NUMBER:
G1-01



ELLIOTT LEWIS LABOR ENTRANCE	
815 SF	
100 SF/PP	9 PPL
BUSINESS	

C3 LIFE SAFETY EGRESS PLAN
Scale: 1/4" = 1'-0"



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ELLIOTT LEWIS LABOR
ENTRANCE
1101 ARCH STREET
PHILADELPHIA, PA 19147



AN **SMG** MANAGED FACILITY

Dimitri J. Ververelli, Inc.

MEP Engineer
211 N. 13th Street, 9th Floor
Philadelphia, PA 19107
Phone: 215-496-0000
djlbert@djvinc.com

SUBMISSION

NO.	ISSUE:	DATE:
1	Bid Review Set	06.25.21
2	100% Bid Set	08.13.21

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PROJECT NO.: 20230

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DRAWN: KMA

DRAWING TITLE:

LIFE SAFETY PLAN

DRAWING NUMBER:

LS1-01

SUBMISSION

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PROJECT NO.: 20230

DATE: AUGUST 13, 2021

SCALE: AS NOTED

DRAWN: KMA

DRAWING TITLE:

FLOOR PLANS

DRAWING NUMBER:

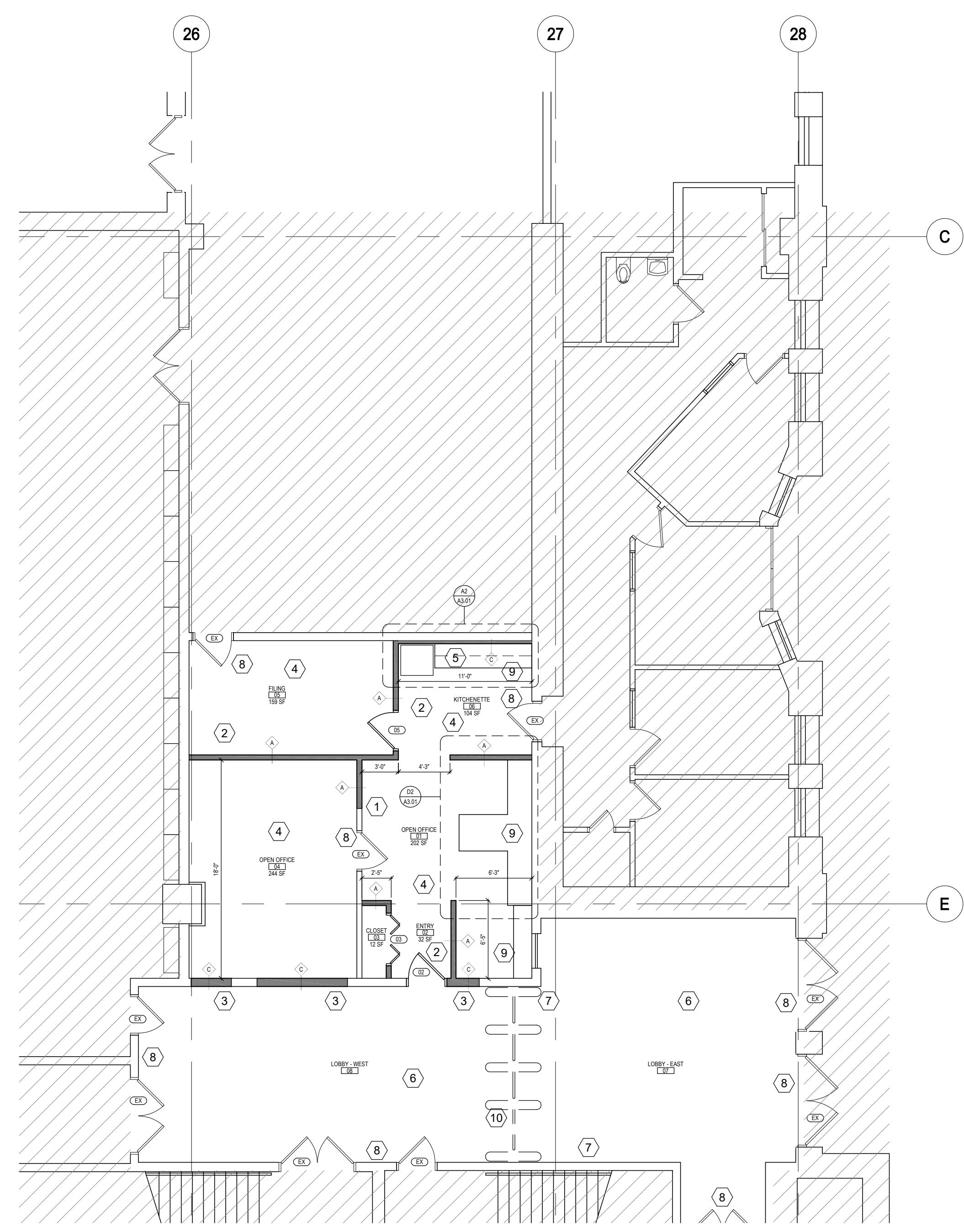
A1-01

DEMOLITION KEY NOTES

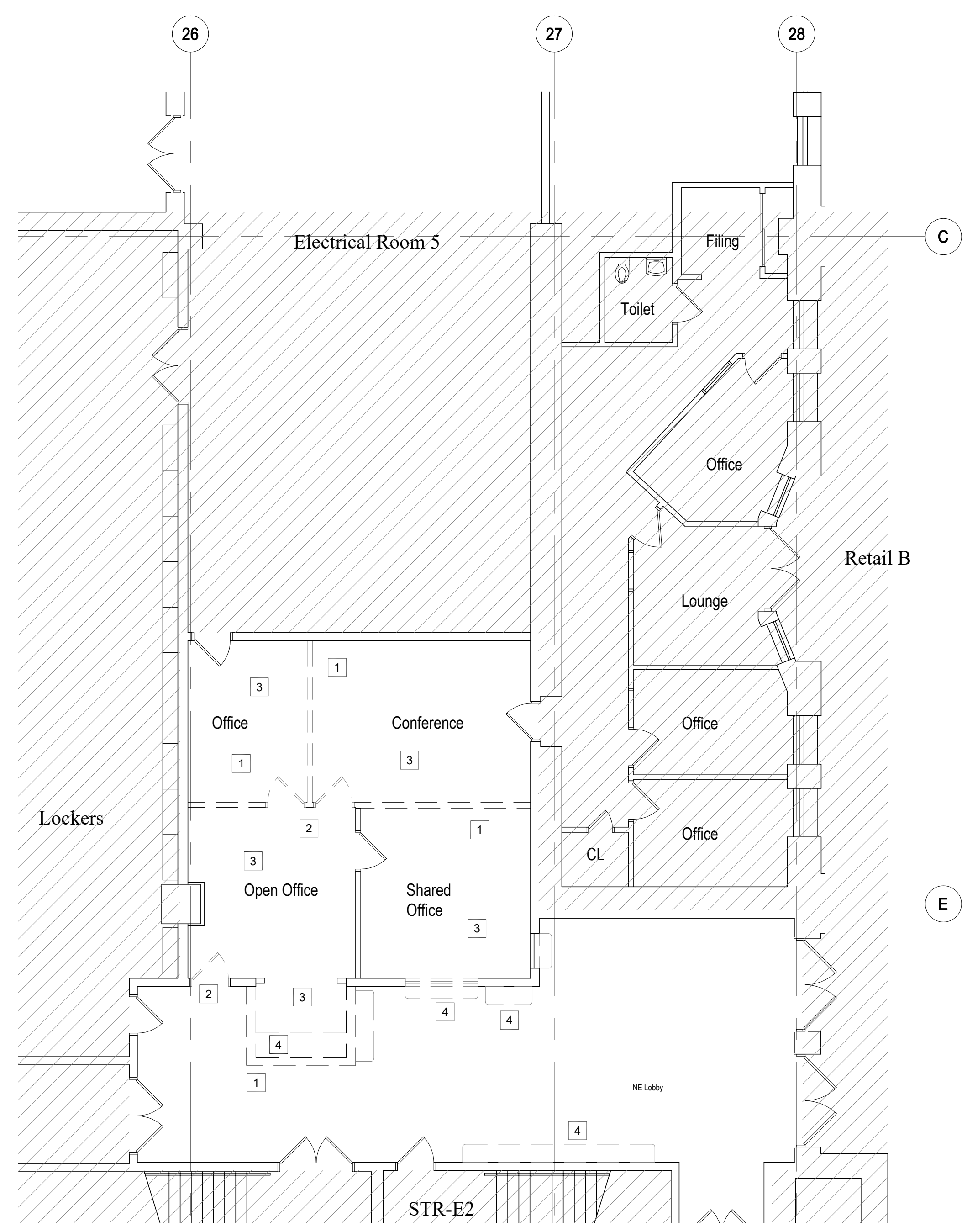
- 1 REMOVE EXISTING WALL(S) AS SHOWN INCLUDING ALL SWITCHES, FIRE STROBES, ACCESS PANELS, ETC. MAINTAIN CONNECTIONS TO ALL UTILITIES AND COORDINATE WITH MEP DEMO.
- 2 REMOVE EXISTING DOOR AND FRAME. REFER TO DOOR SCHEDULE ON SHEET G1.01 FOR MORE INFO.
- 3 REMOVE ALL FINISHED FLOORING AND WALL BASE FROM AREA OF WORK, INCLUDING ALL ADHESIVE AND SET BED FROM UNDERLAYMENT BELOW AND PREPARE FOR NEW FINISHES.
- 4 REMOVE EXISTING MILLWORK. PATCH WALL TO PREPARE FOR NEW FINISHES.
- 5 REMOVE ALL CEILING TILES, GRID TO REMAIN AND BE CLEANED OF ANY PAINT, STICKERS, RESIDUE, ETC. FOR REUSE. PROVIDE AN ALLOWANCE TO REPLACE UP TO 10% OF GRID THAT IS NOT SALVAGABLE.
- 6 REMOVE EXISTING CEILING TILES, FIXTURES AND GRID IN THEIR ENTIRETY.
- 7 REMOVE ALL EXISTING EXIT SIGNS, REGISTERS AND CEILING MOUNTED DEVICES WITHIN THE SCOPE OF WORK. ALL MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS AND CONNECTIONS TO REMAIN FOR RECONNECTION. REFER TO MEP DRAWINGS FOR FULL EXTENT OF NEW WORK.

NEW WORK KEY NOTES

- 1 ALIGN NEW STUDS WITH EXISTING WALL TO ALLOW FOR SMOOTH FINISH TRANSITION FROM EXISTING TO NEW WORK.
- 2 INSTALL NEW WALLS AND DOORS AS SHOWN. REFER TO SHEET G1.01 FOR PARTITION TYPES DOOR SCHEDULE.
- 3 INFILL EXISTING OPENING, MATERIALS AND FINISHES TO MATCH ADJACENT WALL FINISH.
- 4 NEW FLOORING AND WALL FINISHES PER FINISH SCHEDULE ON G1.01.
- 5 INSTALL NEW CHASE WALL TO PROVIDE BLOCKING SUPPORT FOR NEW MILLWORK.
- 6 CLEAN EXISTING POLISHED CONCRETE FLOORING TO REMAIN; REMOVE ANY STAINING, INFILL CRACKS AND RESTORE TO A LIKE-NEW FINISH.
- 7 PATCH AND REPAIR ANY BLOCK WALLS WHERE FIXTURES WERE REMOVED.
- 8 CLEAN ALL EXISTING WINDOWS AND DOORS TO REMAIN WITHIN SCOPE OF WORK. REPAIR ANY FRAME, HARDWARE, OR GLAZING THAT IS DAMAGED AND REPAINT DOORS AND FRAMES.
- 9 INSTALL NEW MILLWORK AS SHOWN. REFER TO SHEET A3.01 FOR NEW MILLWORK DIMENSIONS AND FINISHES. CONTRACTOR TO FIELD VERIFY ALL CRITICAL DIMENSIONS AND CONTACT ARCHITECT IF DISCREPANCIES ARE OBSERVED.
- 10 INSTALL NEW TURNSTILE SECURITY DEVICES IN ENTRY AREA AS SHOWN. REFER TO ELECTRICAL DRAWINGS FOR CONNECTION INFORMATION.
- 11 INSTALL NEW ACOUSTIC ARMSTRONG CORTINA 24" X 48" CEILING TILES AND NEW LED LIGHTING IN EXISTING GRID IN AREAS AS SHOWN.
- 12 INSTALL NEW A/C CEILING WITH GRID AND LIGHTS AS SHOWN.
- 13 INSTALL NEW REGISTERS AND REINSTALL DEVICES DISPLACED FROM REMOVED CEILING TILES. REFER TO MEP DRAWINGS FOR MORE INFORMATION.
- 14 CLEAN AND PAINT ALL GWB CEILINGS AND SOFFITS TO REMAIN; PATCH ANY DAMAGED AREAS.
- 15 PATCH EXISTING GRID AS NEEDED.



B5 LABOR ENTRANCE NEW WORK PLAN
 Scale: 1/4" = 1'-0"



B3 LABOR ENTRANCE DEMOLITION PLAN
 Scale: 1/4" = 1'-0"

SUBMISSION

NO.	ISSUE	DATE
1	Bid Review Set	06.25.21
2	100% Bid Set	08.13.21

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PROJECT NO.:	20230
DATE:	AUGUST 13, 2021
SCALE:	AS NOTED
DRAWN:	KMA

DRAWING TITLE:
REFLECTED CEILING PLANS

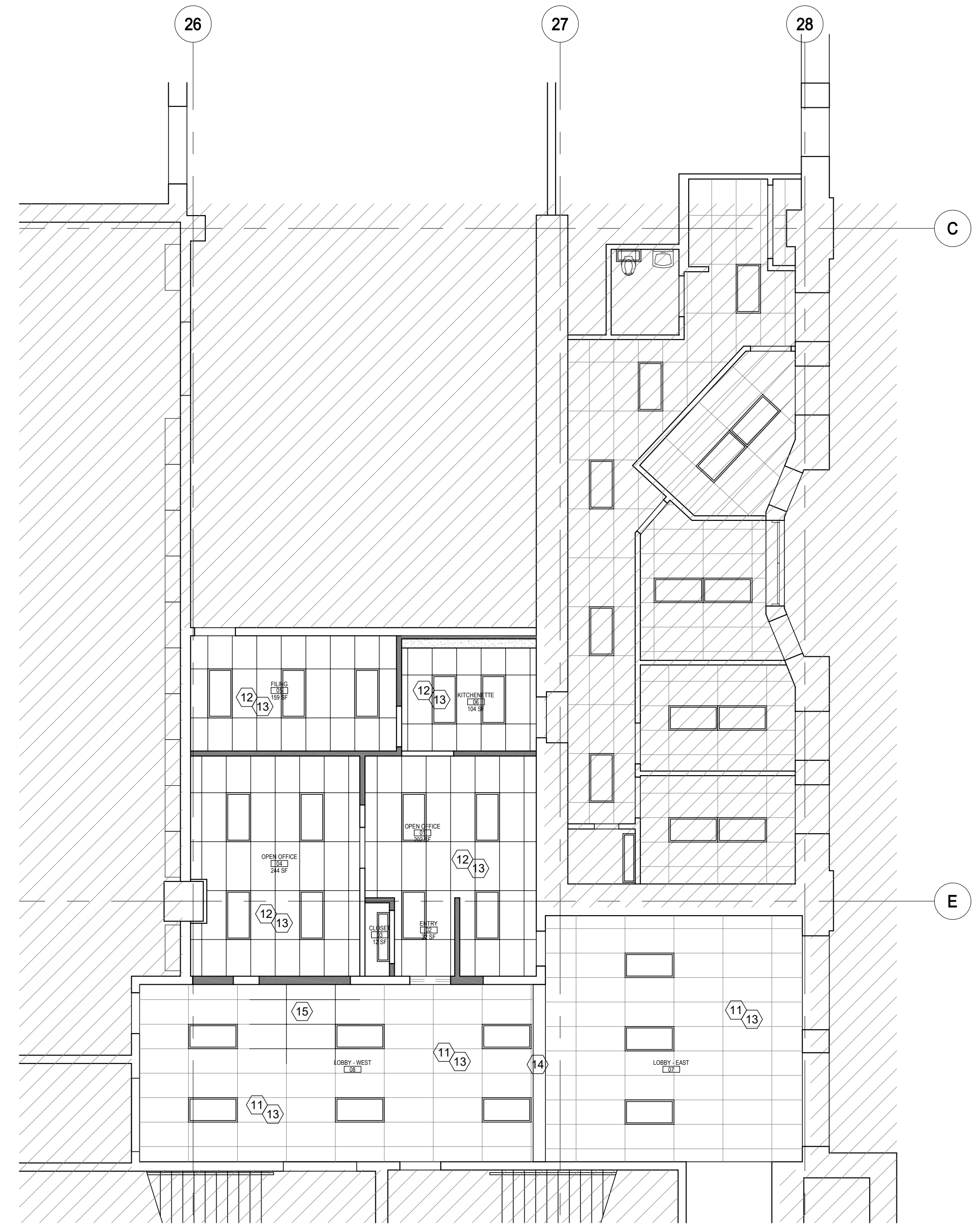
DRAWING NUMBER:
A2-01

DEMOLITION KEY NOTES

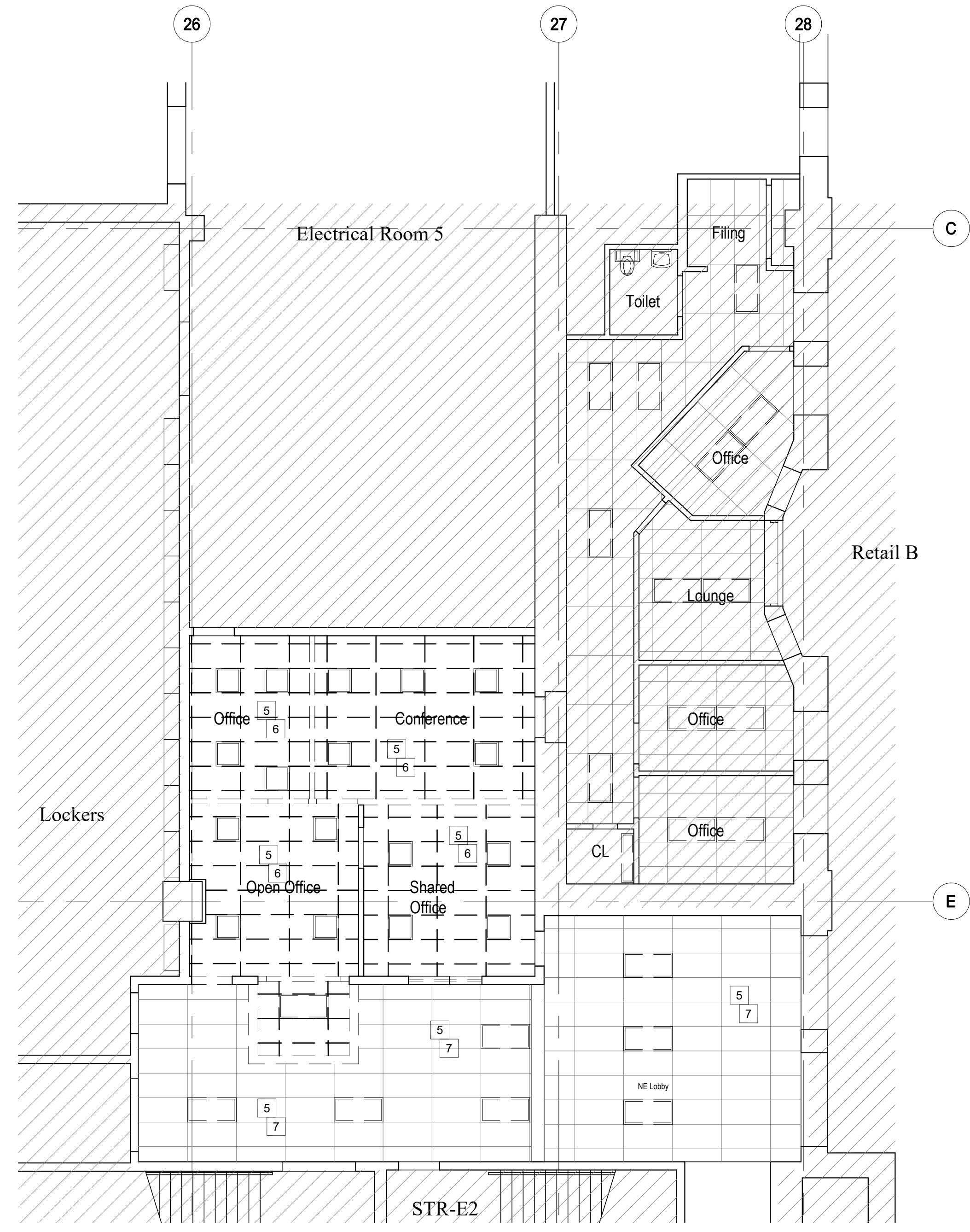
- 1 REMOVE EXISTING WALL(S) AS SHOWN INCLUDING ALL SWITCHES, FIRE STROBES, ACCESS PANELS, ETC. MAINTAIN CONNECTIONS TO ALL UTILITIES AND COORDINATE WITH MEP DEMO.
- 2 REMOVE EXISTING DOOR AND FRAME. REFER TO DOOR SCHEDULE ON SHEET G1.01 FOR MORE INFO.
- 3 REMOVE ALL FINISHED FLOORING AND WALL BASE FROM AREA OF WORK, INCLUDING ALL ADHESIVE AND SET BED FROM UNDERLAYMENT BELOW AND PREPARE FOR NEW FINISHES.
- 4 REMOVE EXISTING MILLWORK. PATCH WALL TO PREPARE FOR NEW FINISHES.
- 5 REMOVE ALL CEILING TILES, GRID TO REMAIN AND BE CLEANED OF ANY PAINT, STICKERS, RESIDUE, ETC. FOR REUSE. PROVIDE AN ALLOWANCE TO REPLACE UP TO 10% OF GRID THAT IS NOT SALVAGABLE.
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NEW WORK KEY NOTES

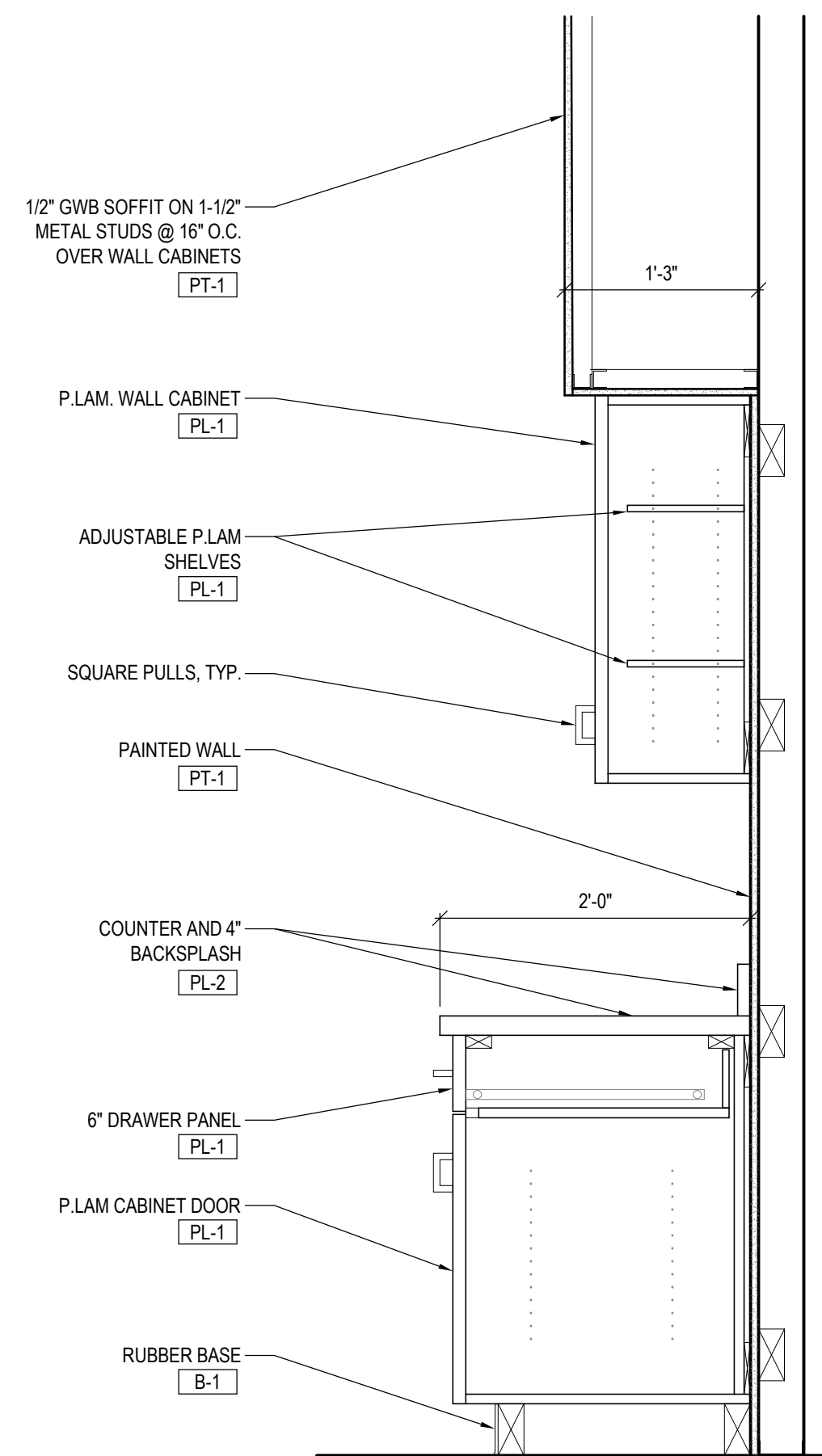
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- 9 INSTALL NEW MILLWORK AS SHOWN. REFER TO SHEET A3.01 FOR NEW MILLWORK DIMENSIONS AND FINISHES. CONTRACTOR TO FIELD VERIFY ALL CRITICAL DIMENSIONS AND CONTACT ARCHITECT IF DISCREPANCIES ARE OBSERVED.
- 10 INSTALL NEW TURNSTILE SECURITY DEVICES IN ENTRY AREA AS SHOWN. REFER TO ELECTRICAL DRAWINGS FOR CONNECTION INFORMATION.
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- 13 INSTALL NEW REGISTERS AND REINSTALL DEVICES DISPLACED FROM REMOVED CEILING TILES. REFER TO MEP DRAWINGS FOR MORE INFORMATION.
- 14 CLEAN AND PAINT ALL GWB CEILINGS AND SOFFITS TO REMAIN; PATCH ANY DAMAGED AREAS.
- 15 PATCH EXISTING GRID AS NEEDED.



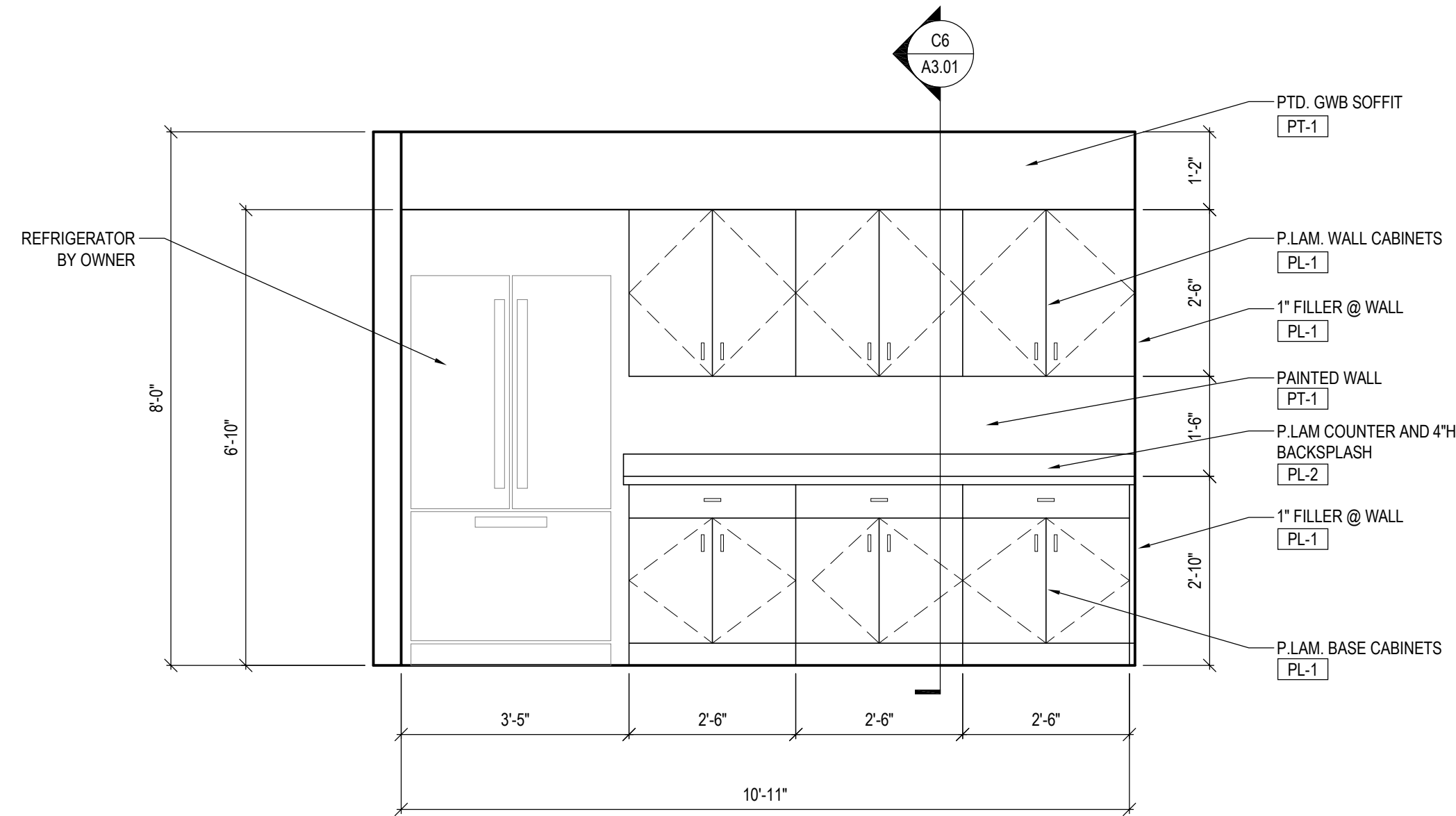
B5 LABOR ENTRANCE REFLECTED CEILING PLAN
 Scale: 1/4" = 1'-0"



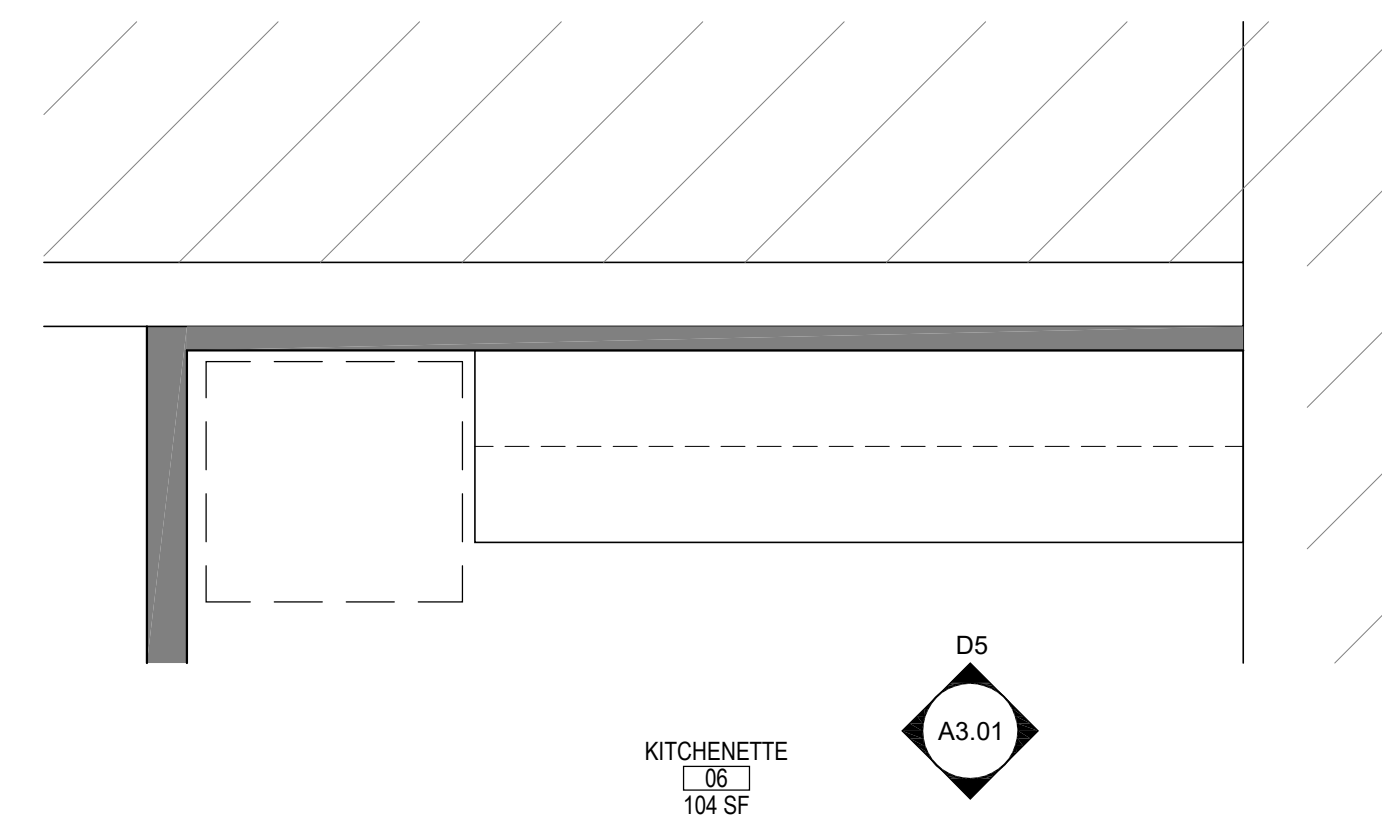
B3 LABOR ENTRANCE DEMOLITION CEILING PLAN
 Scale: 1/4" = 1'-0"



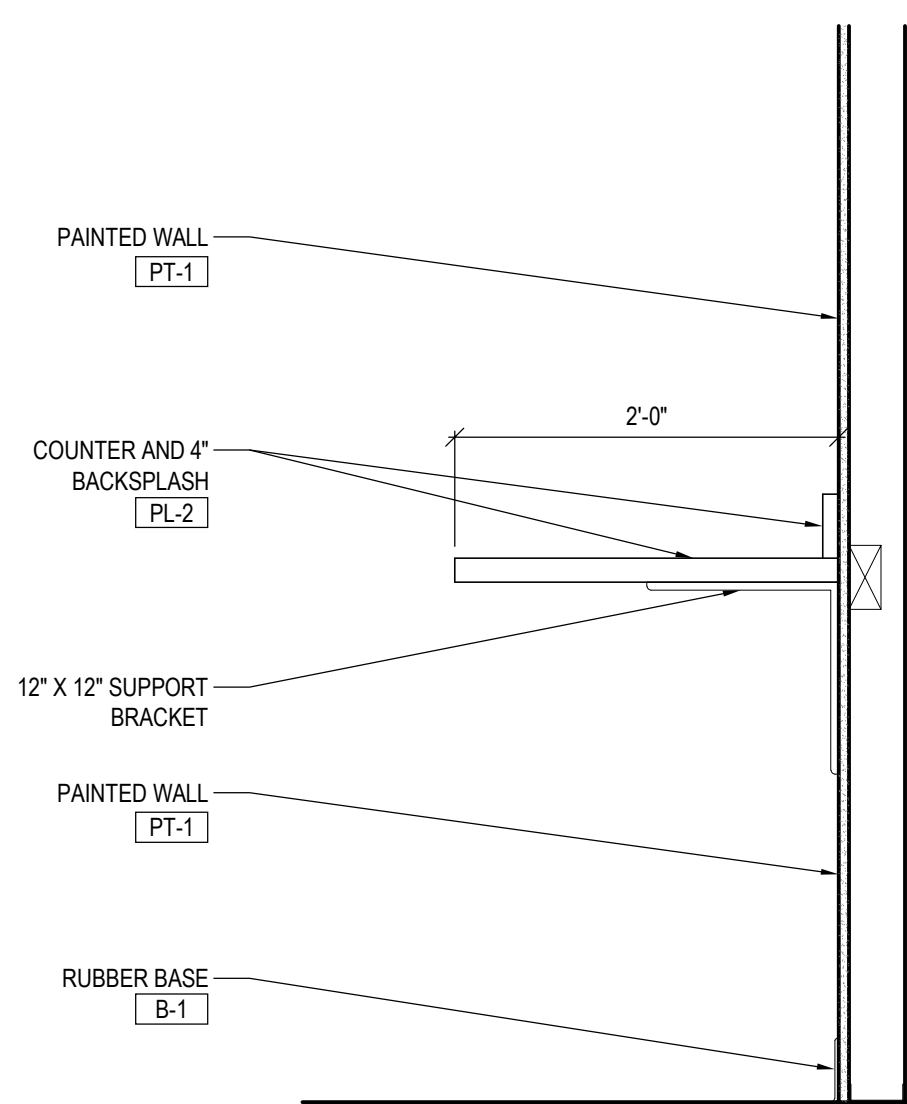
C6 KITCHENETTE SECTION
Scale: 1" = 1'-0"



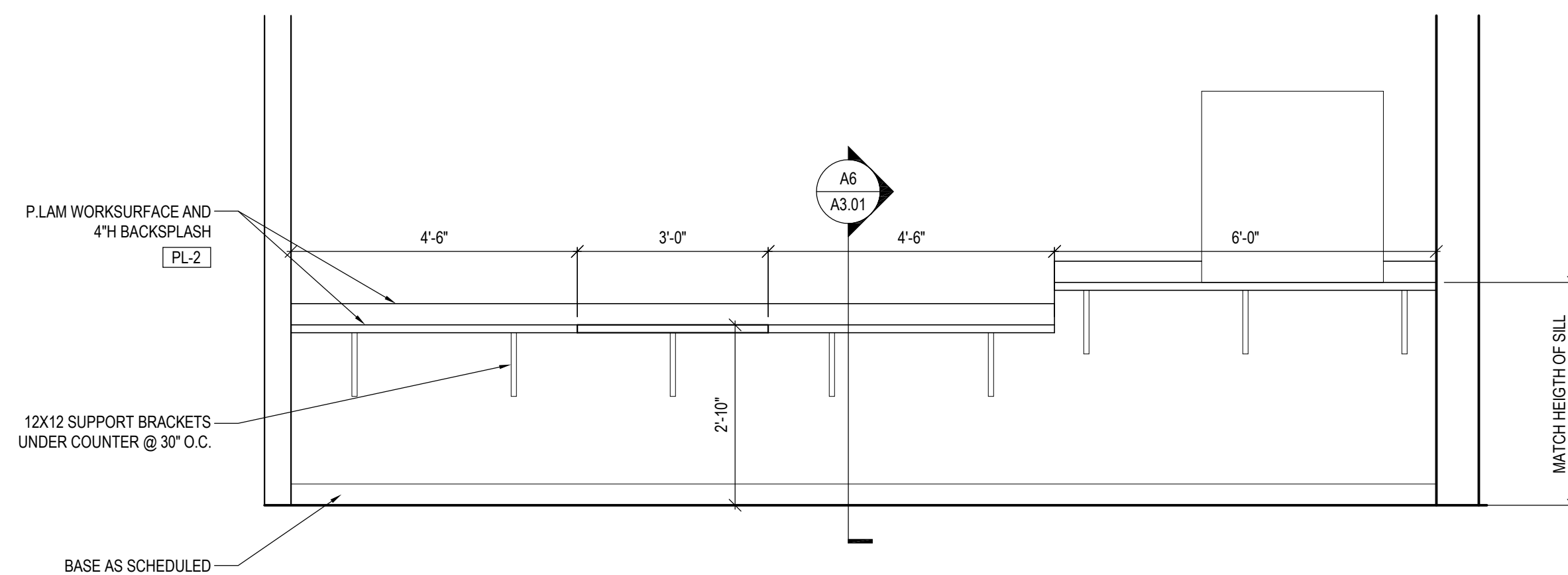
D5 KITCHENETTE ELEVATION
Scale: 1/2" = 1'-0"



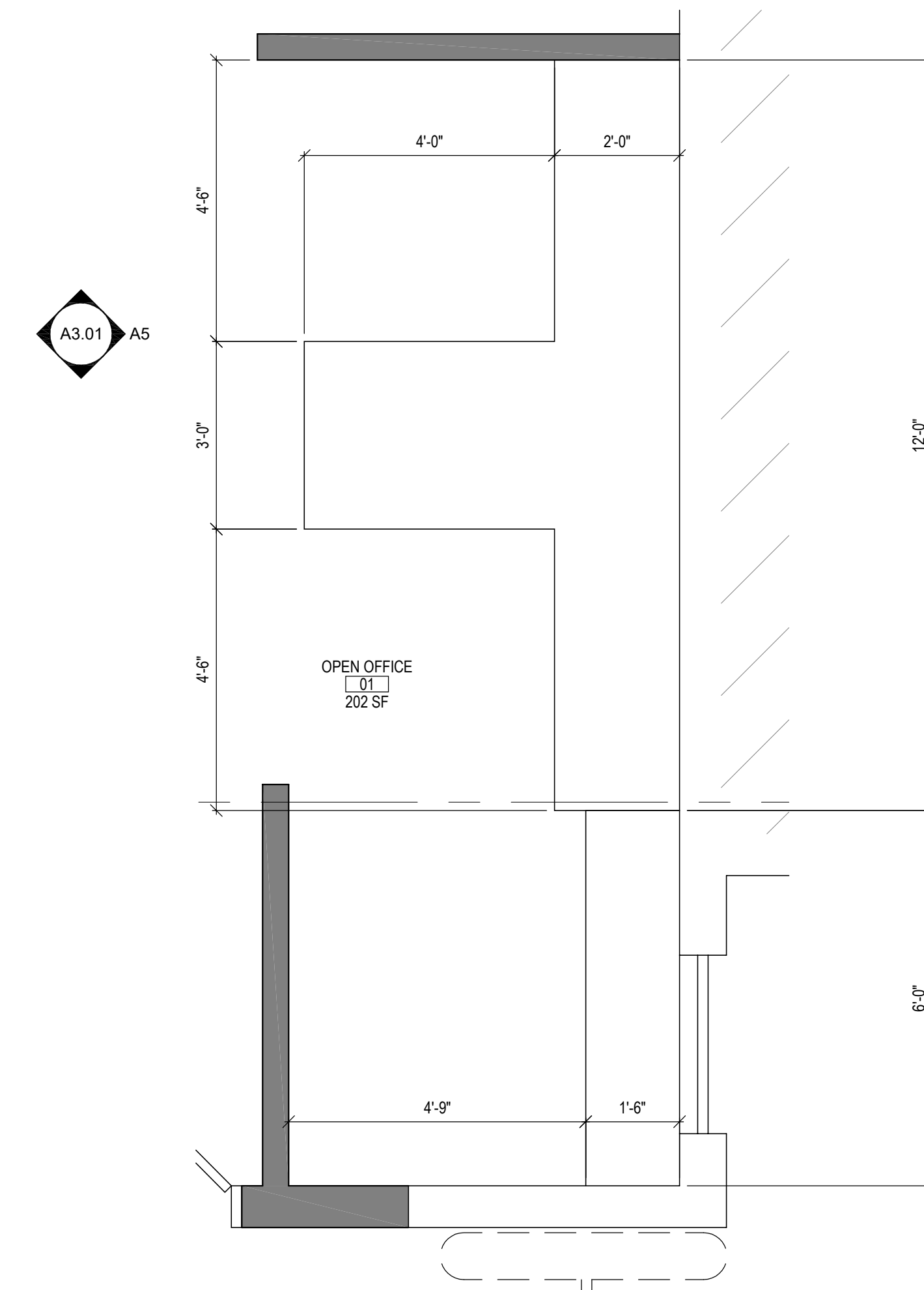
D2 KITCHENETTE ENLARGED PLAN
Scale: 1/2" = 1'-0"



A6 WORKSURFACE SECTION
Scale: 1" = 1'-0"



A5 WORKSURFACE ELEVATION
Scale: 1/2" = 1'-0"



A2 KITCHENETTE ENLARGED PLAN
Scale: 1/2" = 1'-0"



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SUBMISSION

NO.	ISSUE:	DATE:
1	Bid Review Set	06.25.21
2	100% Bid Set	08.13.21

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PROJECT NO.: 20230

DATE: AUGUST 13, 2021

SCALE: AS NOTED

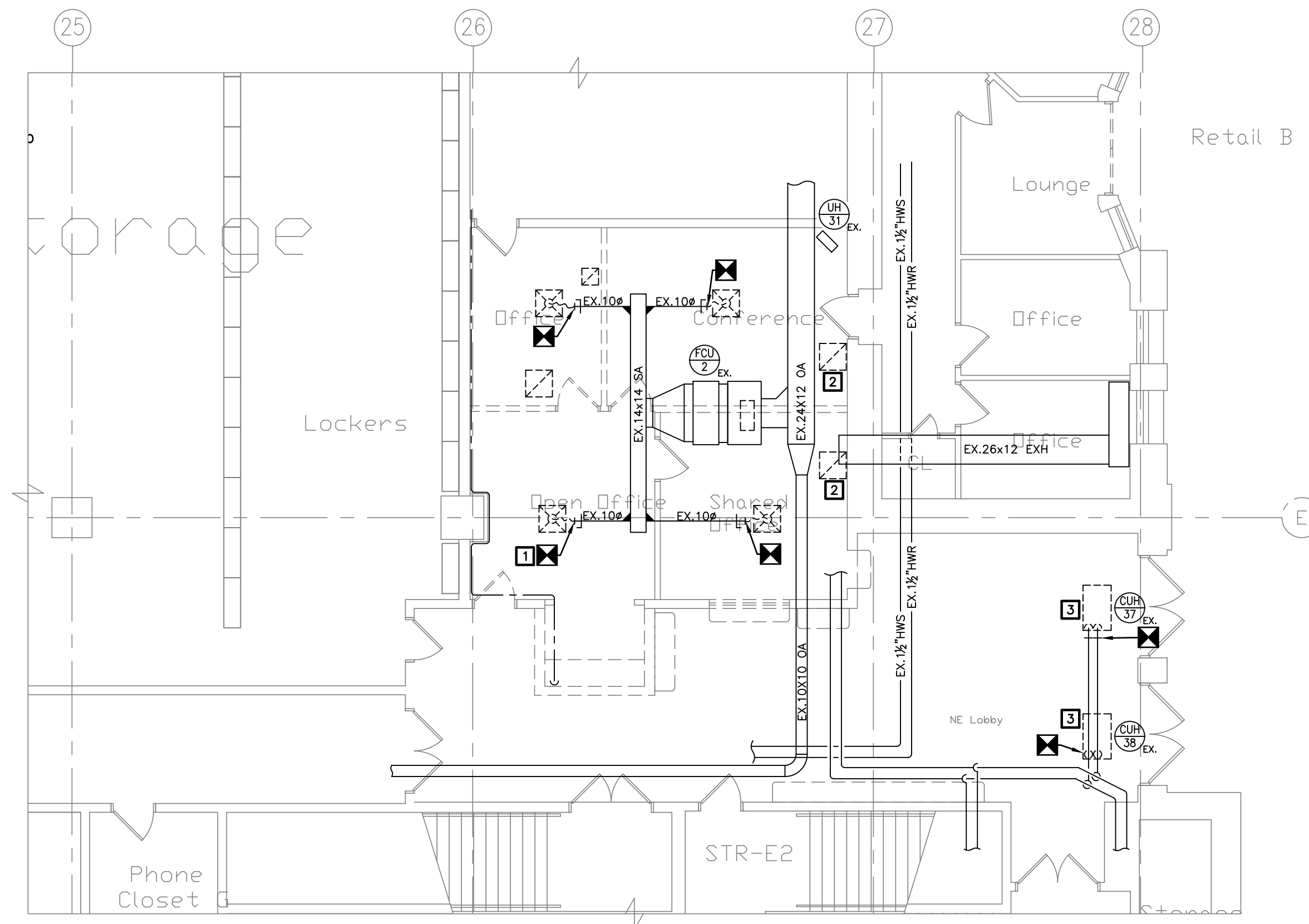
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DRAWING TITLE:

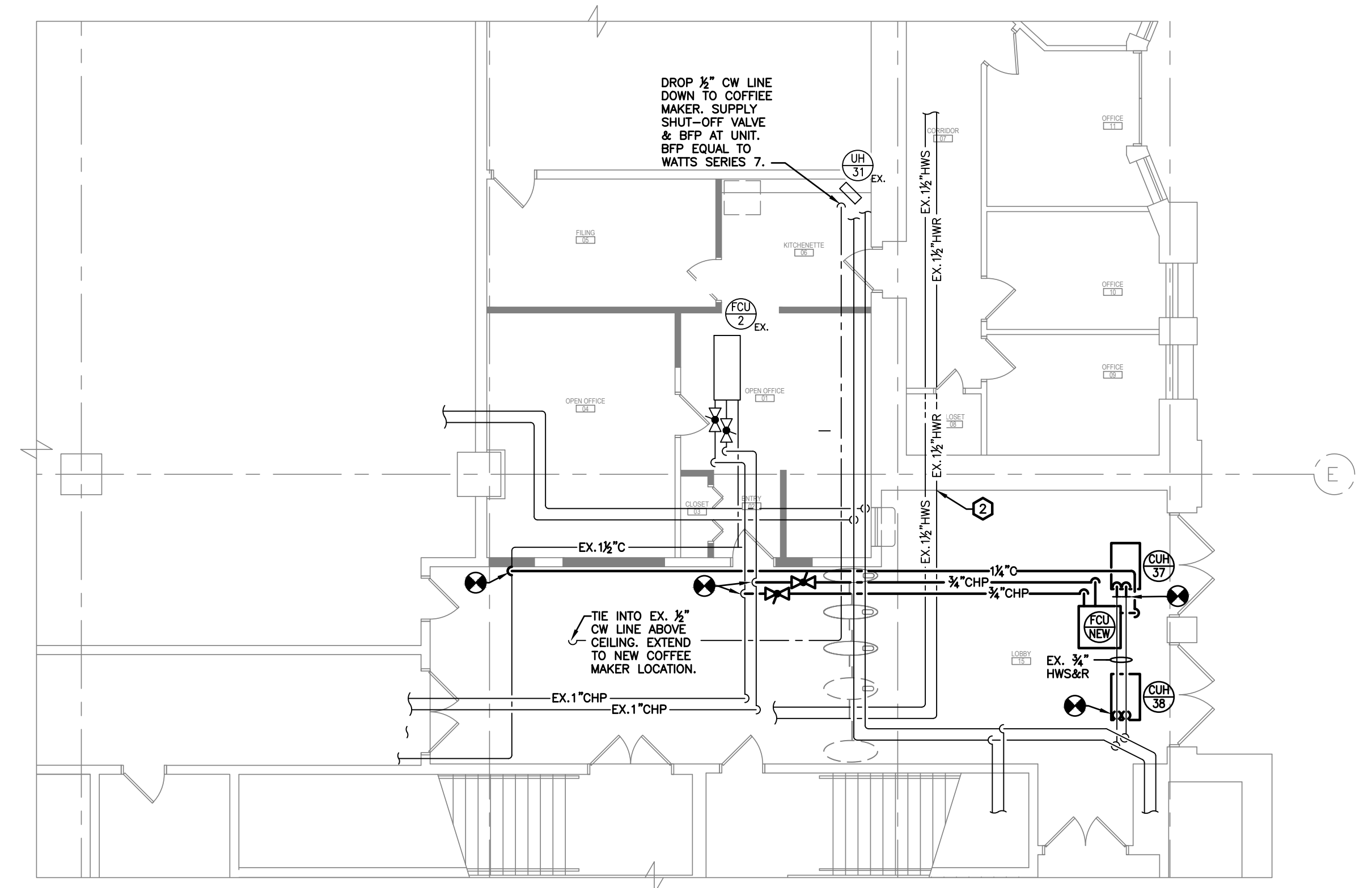
ENLARGED MILLWORK PLANS

DRAWING NUMBER:

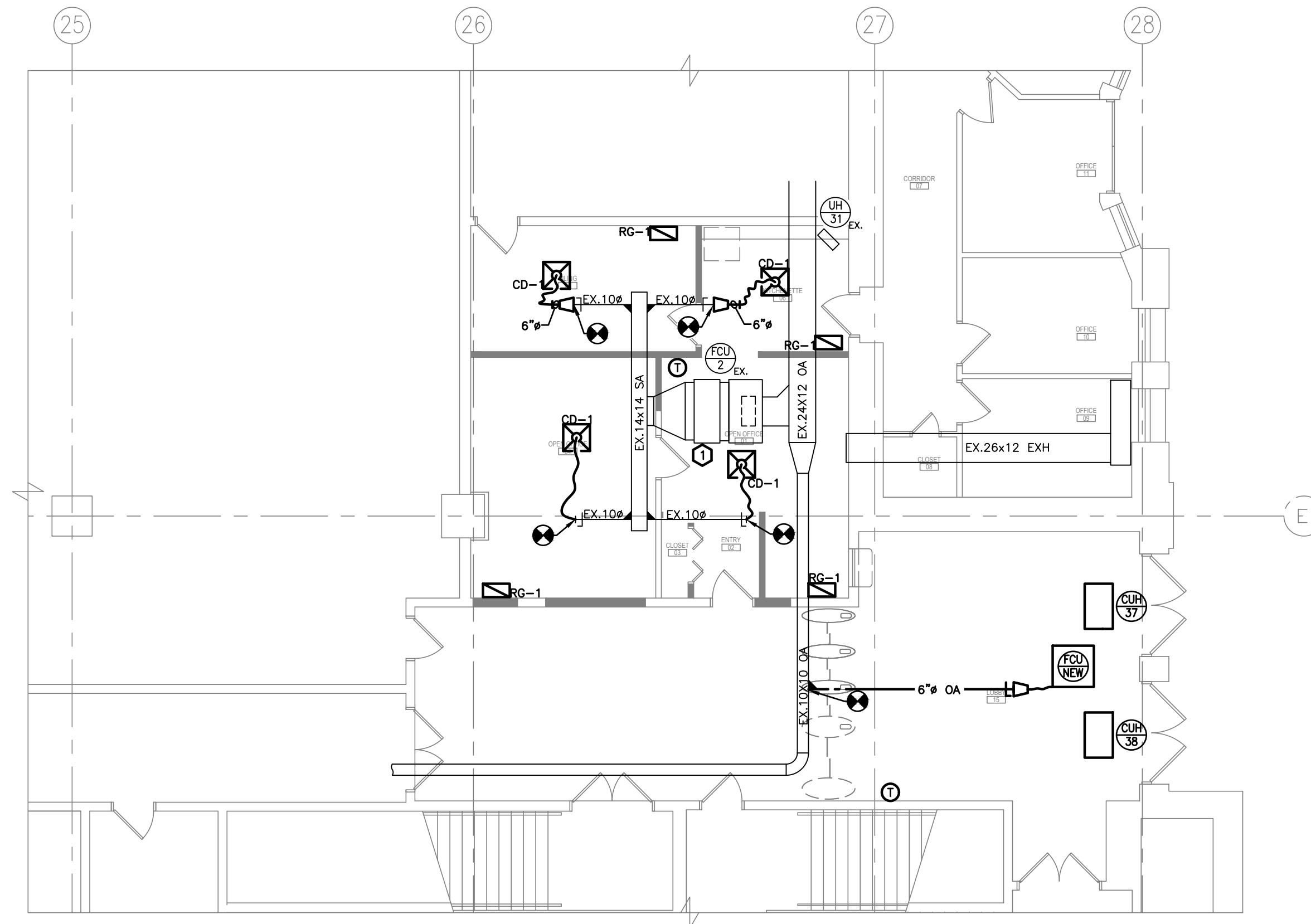
A3-01



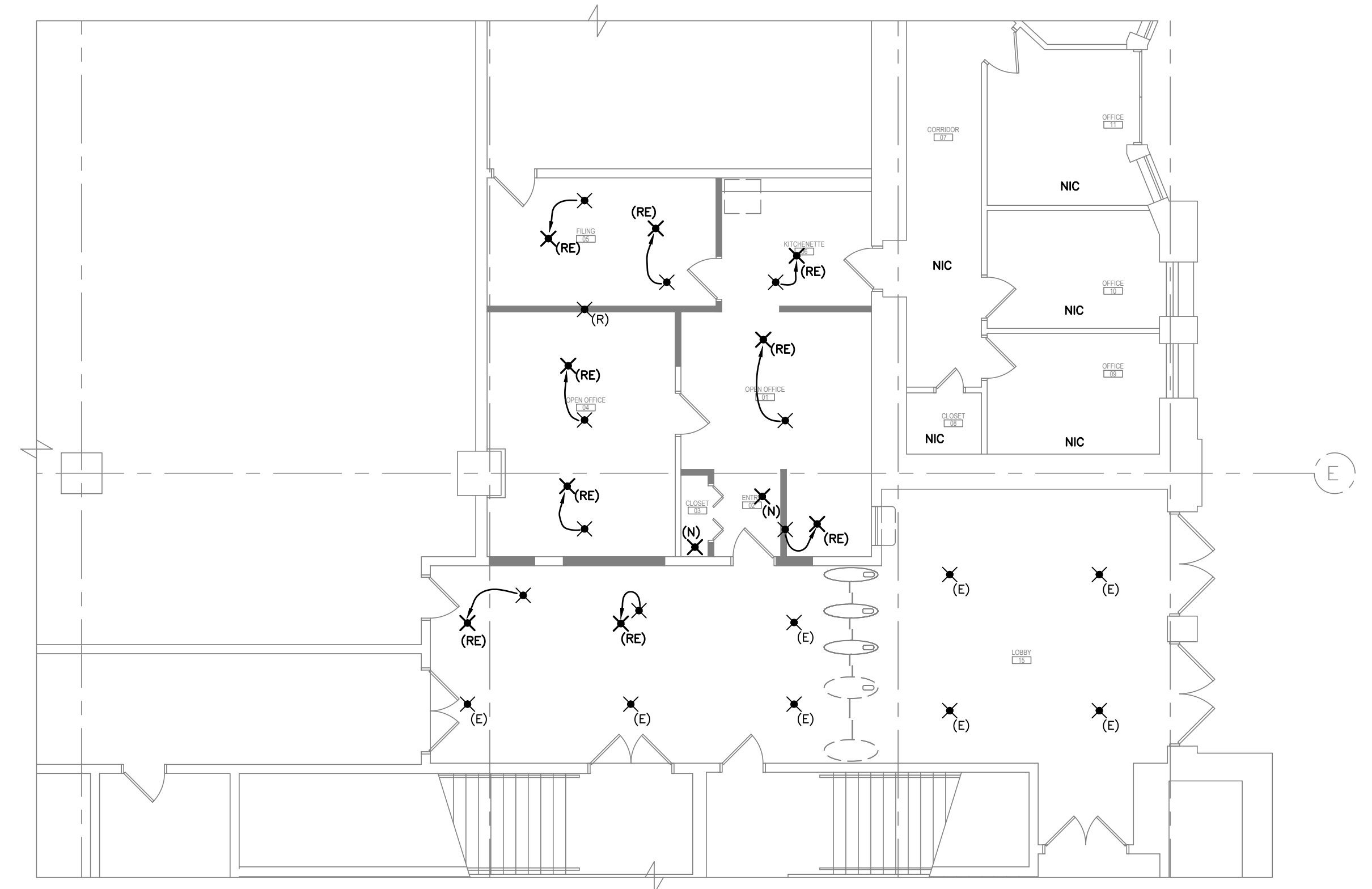
PARTIAL FLOOR PLAN - DUCTWORK DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



PARTIAL FLOOR PLAN - PIPE NEW WORK PLAN
SCALE: 1/8" = 1'-0"



PARTIAL FLOOR PLAN - DUCTWORK NEW WORK PLAN
SCALE: 1/8" = 1'-0"



PARTIAL FLOOR PLAN - FIRE PROTECTION NEW WORK
SCALE: 1/8" = 1'-0"

- DEMOLITION NOTES**
- 1 REMOVE EXISTING CEILING DIFFUSER AND FLEX BACK TO POINT INDICATED.
 - 2 REMOVE EXISTING RETURN GRILL.
 - 3 REMOVE EXISTING CABINET UNIT HEATERS. REMOVE HOT WATER PIPING BACK TO ISOLATION VALVES.

- CONSTRUCTION NOTES**
- 1 BALANCE AIRFLOW ON EX. FCU ADJUST DAMPERS TO PROVIDE MIN 145CFM OUTSIDE AIR.
 - 2 FIRE STOP OPENINGS AROUND EXISTING PIPING. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

- SPRINKLER LEGEND**
- ⊗(E) EXISTING SPRINKLER HEAD TO REMAIN.
 - ⊗(N) NEW SPRINKLER HEAD TO BE INSTALLED.
 - ⊗(R) EXISTING SPRINKLER HEAD TO BE REMOVED.
 - ⊗(RE) RELOCATE EXISTING SPRINKLER HEAD TO NEW LOCATION.



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SEAL

SUBMISSION

NO.	ISSUE	DATE
1	Review Set	06.24.21
2	100% BID SET	08.13.21

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PROJECT NO.: 20230 DJVI: 2114

DATE: AUGUST 13, 2021

SCALE: AS NOTED

DRAWN: ASP/DWG

DRAWING TITLE:

DEMOLITION AND NEW WORK PLANS

DRAWING NUMBER:

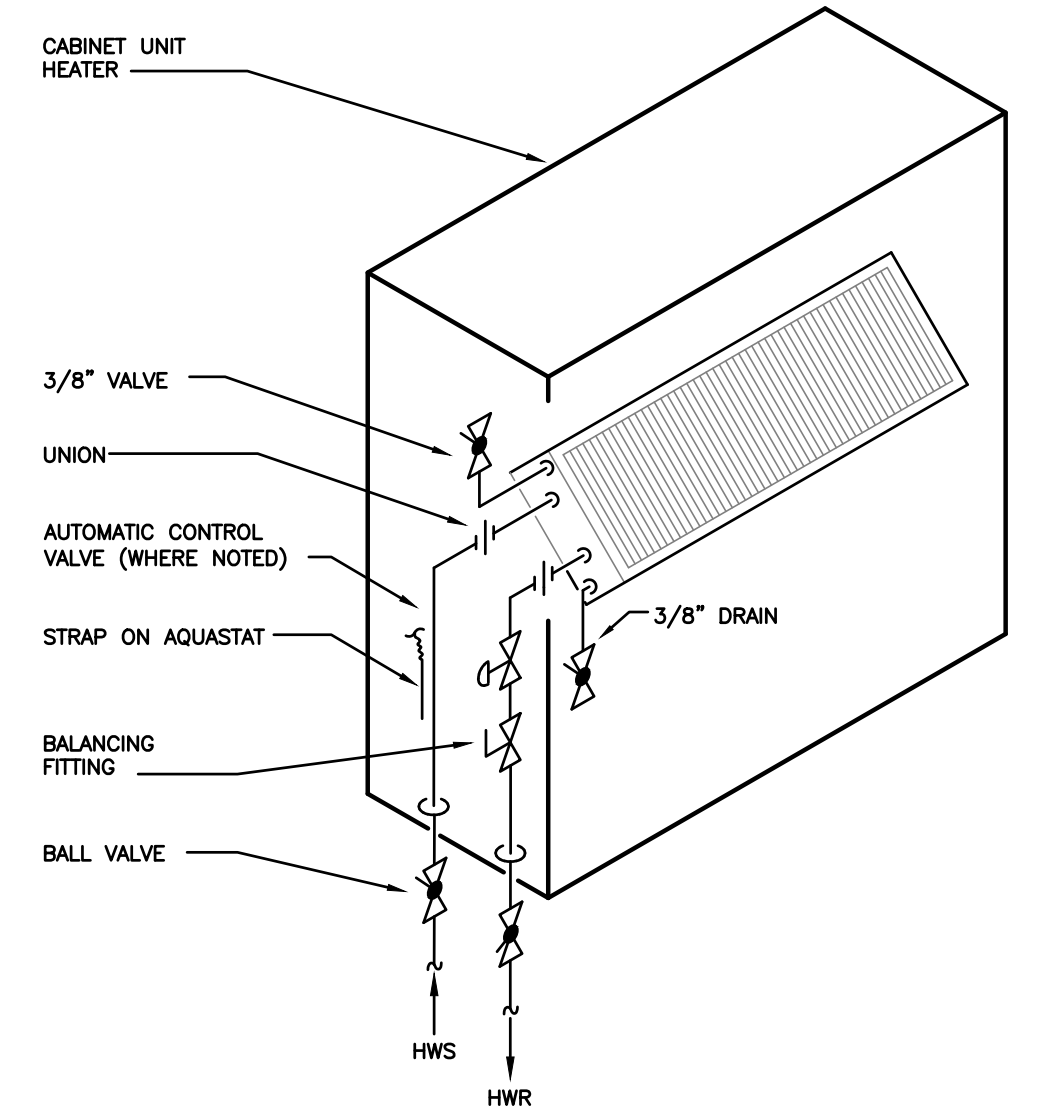
M1.0

CHILLED WATER, CONDENSER WATER, & HOT WATER (40°F THROUGH 210°F) VALVE SCHEDULE (2" & SMALLER)											
SERVICE	VALVE TYPE	RATING	BODY & BONNET	BALL & STEM	SEAT & PACKING SEALS	LATCH-LOOK LEVER & NUT	DISC HOLDER	DISC	PACKING	BRAND	MODEL OR FIGURE NO.
SHUTOFF	THREADED OR SOLDER ENDS BALL	600 PSI CWP, 150 PSI STEAM	2-PIECE, BRONZE	316 SS EXTENDED STEM & BALL	RP1FE	STAINLESS STEEL	N/A	N/A	N/A	APOLLO VALVES	77C-140 OR 240 (SIZE)-04-10-27 A SERIES
SHUTOFF-GAUGE & INSTRUMENT ISOLATION	THREADED OR SOLDER ENDS BALL	600 PSI CWP, 150 PSI STEAM	2-PIECE, BRONZE	316 SS EXTENDED STEM & BALL	RP1FE	STAINLESS STEEL	N/A	N/A	N/A	APOLLO VALVES	77C-140 OR 240 (SIZE)-04-10-27 A SERIES
SHUTOFF	PRESS END BALL	250 PSI CWP	2-PIECE, BRONZE	316 SS EXTENDED STEM & BALL	RP1FE	STAINLESS STEEL	N/A	N/A	N/A	APOLLO VALVES	77W-140(SIZE)-10 50 SERIES
SHUTOFF-GAUGE & INSTRUMENT ISOLATION	PRESS END BALL	250 PSI CWP	2-PIECE, BRONZE	316 SS EXTENDED STEM & BALL	RP1FE	STAINLESS STEEL	N/A	N/A	N/A	APOLLO VALVES	77W-140(SIZE)-10 50 SERIES
LOW POINT DRAIN & HIGH POINT VENT	THREADED OR SOLDER ENDS BALL	600 PSI CWP, 150 PSI STEAM	2-PIECE, BRONZE	316 SS EXTENDED STEM & BALL	RP1FE	STAINLESS STEEL	N/A	N/A	N/A	APOLLO VALVES	70-140 OR 240 (SIZE)-04-27-HC SERIES
LOW POINT DRAIN & HIGH POINT VENT	PRESS END BALL	250 PSI CWP	2-PIECE, BRONZE	316 SS EXTENDED STEM & BALL	RP1FE	STAINLESS STEEL	N/A	N/A	N/A	APOLLO VALVES	77W-140(SIZE)-04-10-HC SERIES
BALANCING	THREADED OR SOLDER ENDS MANUAL BALANCING	300 PSI	AMETAL	AMETAL	EPDM	N/A	HANDWHEEL	AMETAL	N/A	VICTAULIC TOUR & ANDERSON	TA/MI SERIES 78K, SERIES 786, SERIES 787

HVAC/PLUMBING THERMAL INSULATION SCHEDULE				
DESCRIPTION	INSULATION TYPE	THICKNESS	COVERING/JACKET	HEAT TRACE
HEATING HOT WATER PIPING	RIGID FIBERGLASS JOHNS MANVILLE MICROLOK	2"	AP-T PLUS	NO
CHILLED WATER PIPING	RIGID FIBERGLASS JOHNS MANVILLE MICROLOK	1 1/2"	AP-T PLUS	NO
AC CONDENSATE	RIGID FIBERGLASS JOHNS MANVILLE MICROLOK	1"	AP-T PLUS	NO
DOMESTIC COLD WATER	RIGID FIBERGLASS JOHNS MANVILLE MICROLOK	1"	AP-T PLUS	NO
DOMESTIC HOT WATER & HW RETURN	RIGID FIBERGLASS JOHNS MANVILLE MICROLOK	1"	AP-T PLUS	NO
SUPPLY AIR DUCTWORK	FIBERGLASS WRAP JOHNS MANVILLE MICROLUTE TYPE 75	1 1/2"	FSK	N/A

AIR TERMINAL DEVICE SCHEDULE	
DEVICE	DESCRIPTION
CD-1	TITUS MODEL TMS DIFFUSERS, STEEL CONSTRUCTION, 24x24 MODULE SIZE WITH BORDER TYPE FOR LAY IN CEILING APPLICATION, ROUND NECK (SIZE AS INDICATED ON DRAWINGS) FINISH IN #26 WHITE.
RG-1	TITUS MODEL PAR RETURN GRILLE, STEEL CONSTRUCTION, 1/2" PERFORATED FACE, BORDER TYPE FOR LAY-IN CEILING APPLICATION, PROVIDE ADDITIONAL CEILING TEES WHEN SIZE IS LESS THAN FULL TILE. FINISH IN #26 WHITE. SIZE INDICATED ON DRAWINGS.

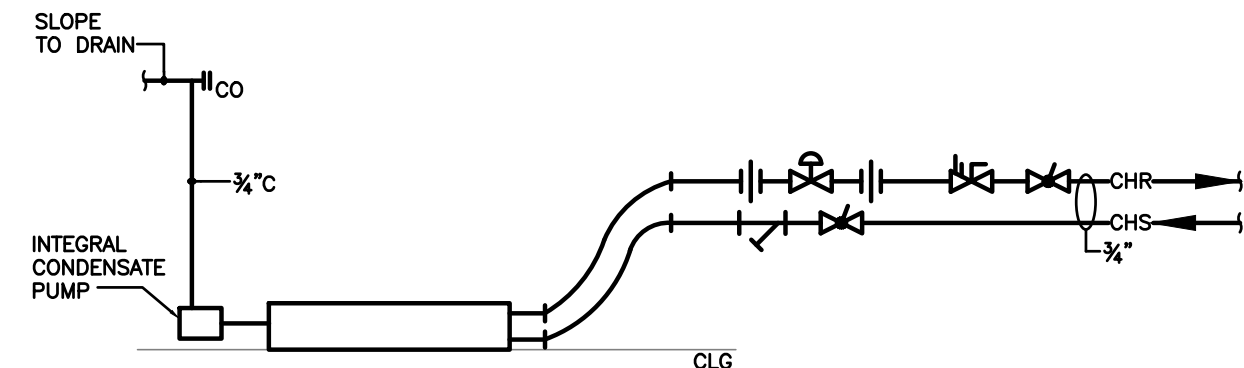
NOTE: JAPAN ALL INTERNAL COMPONENTS OF AIR TERMINAL DEVICES



HOT WATER CABINET UNIT HEATER PIPING DIAGRAM
N.T.S.

2 PIPE FAN COIL UNIT SCHEDULE (COOLING ONLY)											
NO.	ROOM SERVED	AIR FLOW (CFM)	FAN SPEED	MOTOR HP	EAT DB/WB (DEG. F)	EWT (DEG. F)	GPM	HEAD LOSS (FT WG)	CAPACITY (MBH)	ELECTRICAL V/PH/Hz	MANUFACTURER & MODEL NO.
FCU-NEW	LOBBY	630	HIGH	3/4	80F/50F	45F	3.7	2.4	18.6	120/1/60	CARRIER 42WKN20AMNA

CABINET UNIT HEATER SCHEDULE										
NO.	ROOM SERVED	CAPACITY (MBH)	CFM	RPM	GPM @ 150°F	COIL PD. (FT. HD.)	MOTOR HP	MOTOR V/PH/Hz	TYPE	MANUFACTURER & MODEL NO.
37	37 E 061	14.3	230	HIGH	0.84	0.06	1/8	120/1/60	1 ROW	VULCAN, RC-1200 02
38	37 E 061	14.3	230	HIGH	0.84	0.06	1/8	120/1/60	1 ROW	VULCAN, RC-1200 02



FAN COIL PIPING DETAIL
N.T.S.

SEQUENCE OF OPERATIONS

- THE DIRECT DIGITAL AUTOMATIC TEMPERATURE CONTROLS SHALL BE THROUGH NEW NETWORK CONTROL UNITS (NCU'S) AND THE EXISTING METASYS FACILITY MANAGEMENT SYSTEM (FMS) BY JOHNSON CONTROLS, INC.
- SYSTEM INOPERATIVE
 - WHEN THE SYSTEM IS INDEXED TO INOPERATIVE, THE FAN COIL UNIT FANS SHALL STOP AND THE TWO POSITION CHILLED WATER CONTROL VALVE SHALL CLOSE.
 - THE FAN COIL UNITS SHALL BE INDEXED TO INOPERATIVE UNDER ANY OF THE FOLLOWING CONDITIONS.
 - WHEN THE SPACE IS OCCUPIED AS DETERMINED BY THE TIMECLOCK ROUTINE.
 - SYSTEM OPERATIVE
 - FCU-NEW
 - WHEN THE SYSTEM IS INDEXED TO OPERATIVE, THE FAN SHALL START AND CONTINUE TO OPERATE
 - ON A RISE IN SPACE TEMPERATURE ABOVE 75 DEGREES F, FAN COIL UNIT, FCU-NEW, THE CONTROL VALVE SHALL OPEN.

CABINET UNIT HEATER SEQUENCE OF CONTROL

- GENERAL
 - THE DIRECT DIGITAL AUTOMATIC CONTROLS SHALL BE THROUGH NEW NETWORK CONTROL UNITS (NCU) AND THE EXISTING SIEMENS BUILDING AUTOMATION SYSTEM (BAS).
 - MONITOR THE SPACE TEMPERATURE THROUGH LOCAL THERMOSTATS, T
 - ON A DROP IN PLENUM TEMPERATURE BELOW 70°F, THE HOT WATER ISOLATION VALVE SHALL
 - WHEN FACTORY SUPPLIED, STRAP ON AQUASTAT INDICATES WATER TEMPERATURE ABOVE 110°F (ADJUSTABLE) THE UNIT HEATER FAN SHALL START.

MECHANICAL LEGEND

DUCTWORK

- NEW DUCTWORK
- EXISTING DUCTWORK
- EXISTING DUCTWORK TO BE REMOVED
- RETURN AIR OR MAKE-UP AIR
- EXHAUST AIR
- SUPPLY AIR
- SUPPLY AIR OR OUTSIDE AIR DUCT/DIFFUSER
- RETURN AIR DUCT/ GRILLE
- EXHAUST AIR DUCT/ GRILLE
- CHAMFER CONNECTION WITH VOLUME DAMPER
- BELLMOUTH CONNECTION WITH VOLUME DAMPER
- FLEXIBLE DUCT
- RECTANGLE TO ROUND TRANSITION
- VOLUME DAMPER
- CAP DUCT
- DIRECTION OF FLOW
- BREAK LINE
- CONCENTRIC REDUCER/INCREASER
- ECCENTRIC REDUCER/INCREASER
- FLEXIBLE CONNECTION
- RISE IN DUCT
- FIRE DAMPER WITH ACCESS DOOR
- DUCTWORK ROOF SUPPORT
- CONTROL DAMPER
- DAMPER NUMBER
- MOTORIZED CONTROL DAMPER

PIPING

- CONDENSATE DRAIN
- CHILLED WATER SUPPLY
- CHILLED WATER RETURN
- CONDENSER WATER RETURN
- CONDENSER WATER SUPPLY
- HEATING HOT WATER SUPPLY
- HEATING HOT WATER RETURN
- LOW PRESSURE STEAM CONDENSATE
- LOW PRESSURE STEAM
- MEDIUM PRESSURE STEAM
- MEDIUM PRESSURE STEAM CONDENSATE
- REFRIGERANT
- REFRIGERANT DISCHARGE
- REFRIGERANT LIQUID
- REFRIGERANT SUCTION
- STEAM
- VENT

NEW PIPE

EXISTING PIPE

EXISTING PIPE TO BE REMOVED

- AIR VENT HIGH CAPACITY
- AIR VENT LOW CAPACITY
- AUTOMATIC CONTROL 2-WAY VALVE
- AUTOMATIC CONTROL 3-WAY VALVE
- AUTOMATIC CONTROL BUTTERFLY VALVE
- BALANCING VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- GAS COCK
- GATE VALVE
- GLOBE VALVE
- GLOBE STYLE CHECK VALVE
- RELIEF VALVE
- SOLENOID VALVE
- WYE STRAINER W/ BLOWDOWN VALVE AND HOSE END CONNECTION
- WYE STRAINER
- BREAK LINE
- DIRECTION OF FLOW
- CAP PIPE
- FLANGED CONNECTION
- FLEXIBLE CONNECTION
- INSERTION PLUG FOR TEMPERATURE/PRESSURE GAUGE
- PIPE BRANCH OFF BOTTOM
- PIPE DROP
- PIPE RISE
- REDUCER/INCREASER CONCENTRIC
- REDUCER/INCREASER ECCENTRIC
- UNION
- PRESSURE GAUGE W/ ISOLATION VALVE
- PUMP
- SUCTION DIFFUSER W/ DRAIN VALVE AND HOSE END CONNECTION
- THERMOMETER W/ THERMOWELL

EQUIPMENT

- VARIABLE AIR VOLUME BOX
- VARIABLE AIR VOLUME BOX WITH REHEAT COIL
- FAN
- PUMP
- AIR FLOW STATION

ABBREVIATIONS

- AD ACCESS DOOR
- AFCS AIR FLOW CONTROL STATION
- AFV ABOVE FINISHED FLOOR
- AFS AIR FLOW MONITOR STATION
- AHU AIR HANDING UNIT
- AS AIR SEPARATOR
- ASC AIR SCOOP
- BAS BUILDING AUTOMATION SYSTEM
- BDD BACKDRIFT DAMPER
- BHP BRAKE HORSEPOWER
- BOD BOTTOM OF DUCT
- BTU BRITISH THERMAL UNIT
- BTUH BRITISH THERMAL UNIT PER HOUR
- C CONDENSATE DRAIN
- CC COOLING COIL
- CD CEILING DIFFUSER
- CFM CUBIC FEET PER MINUTE
- CH CHILLER
- CO CLEAN OUT
- CONN CONNECTION
- CSF CHEMICAL SHOT FEEDER
- CU CONDENSER UNIT
- CUH CABINET UNIT HEATER
- CV COEFFICIENT, VALVE FLOW
- CVB CONSTANT VOLUME BOX
- DB DRY BULB TEMPERATURE
- DEG DEGREES (FAHRENHEIT)
- DA DIAMETER
- EAT ENTERING AIR TEMPERATURE
- EC ELECTRICAL CONTRACTOR
- EF EXHAUST FAN
- EG EXHAUST GRILLE
- ELEV ELEVATION
- ER EXHAUST REGISTER
- ERU ENERGY RECOVERY UNIT
- EWT ENTERING WATER TEMPERATURE
- EX EXISTING
- EXH EXHAUST
- EXT EXPANSION TANK
- F FAHRENHEIT
- FC FLEXIBLE CONNECTION
- FCU FAN COIL UNIT
- FD FIRE DAMPER
- FMS FACILITIES MANAGEMENT SYSTEM
- FOB FLAT ON BOTTOM
- FOT FLAT ON TOP
- FPI FPI PER INCH
- FPJ FAN POWERED UNIT
- FSD FIRE SMOKE DAMPER
- FT FIN TUBE RADIATION
- GA GAUGE
- GALV GALVANIZED
- GC GENERAL CONTRACTOR
- GPM GALLONS PER MINUTE
- HP HORSEPOWER
- HZ HERTZ
- IN.WG INCHES WATER GAUGE
- LAT LEAVING AIR TEMPERATURE
- LD LINEAR DIFFUSER
- LVR LOUVER
- LWT LEAVING WATER TEMPERATURE
- MBH THOUSAND BTU PER HOUR
- MC MECHANICAL CONTRACTOR
- MOD MOTORIZED OPERATED DAMPER
- MUA MAKE UP AIR
- NC NORMALLY CLOSED
- NIC NOT IN CONTRACT
- NK NECK
- NO NORMALLY OPEN
- NTS NOT TO SCALE
- OA OUTSIDE AIR
- OAI OUTSIDE AIR INTAKE
- PH PHASE
- PSI POUNDS PER SQUARE INCH
- RA RETURN AIR
- RAD RADIATION
- RCVD REMOTE CONTROLLED VOLUME DAMPER
- RF RETURN FAN
- RG RETURN GRILLE
- RH REHEAT COIL
- RR RETURN REGISTER
- SA SOUND ATTENUATOR
- SCD SMOKE CONTROL DAMPER
- SD SMOKE DETECTOR
- SF SUPPLY FAN
- SG SUPPLY GRILLE
- SP STATIC PRESSURE
- SR SUPPLY REGISTER
- TEMP TEMPORARY
- TG TRANSFER GRILLE
- LHI UNIT HEATER
- UV UNIT VENTILATOR
- V VOLTS
- VAV VARIABLE AIR VOLUME BOX
- VD VOLUME DAMPER
- VF VERIFY IN FIELD
- VFD VARIABLE FREQUENCY DRIVE
- W/ WITH
- WB WET BULB TEMPERATURE
- WMS WIRE MESH SCREEN

DEVICES

- CO2 SENSOR
- DIFFERENTIAL PRESSURE SENSOR
- DUCT MOUNTED SMOKE DETECTOR
- FLOW SENSOR
- FREEZESTAT
- HUMIDSTAT
- PRESSURE GAUGE
- SMOKE DETECTOR
- TEMPERATURE SENSOR
- THERMOSTAT

MISC. DRAWING SYMBOLS

- CONSTRUCTION NOTE
- DEMOLITION NOTE
- REVISION NOTE
- EQUIPMENT TYPE
- EQUIPMENT NUMBER
- DETAIL NUMBER
- REFERENCED DRAWING
- SECTION NUMBER
- REFERENCED DRAWING
- POINT OF CONNECTION NEW TO EXISTING
- EXTENT OF DEMOLITION
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- EXISTING TO BE RELOCATED
- FUTURE
- NEW
- SQUARE FOOT
- DIAMETER

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PROJECT NO.: 20230 DJVI: 2114

DATE: AUGUST 13, 2021

SCALE: AS NOTED

DRAWN: ASP/DWG

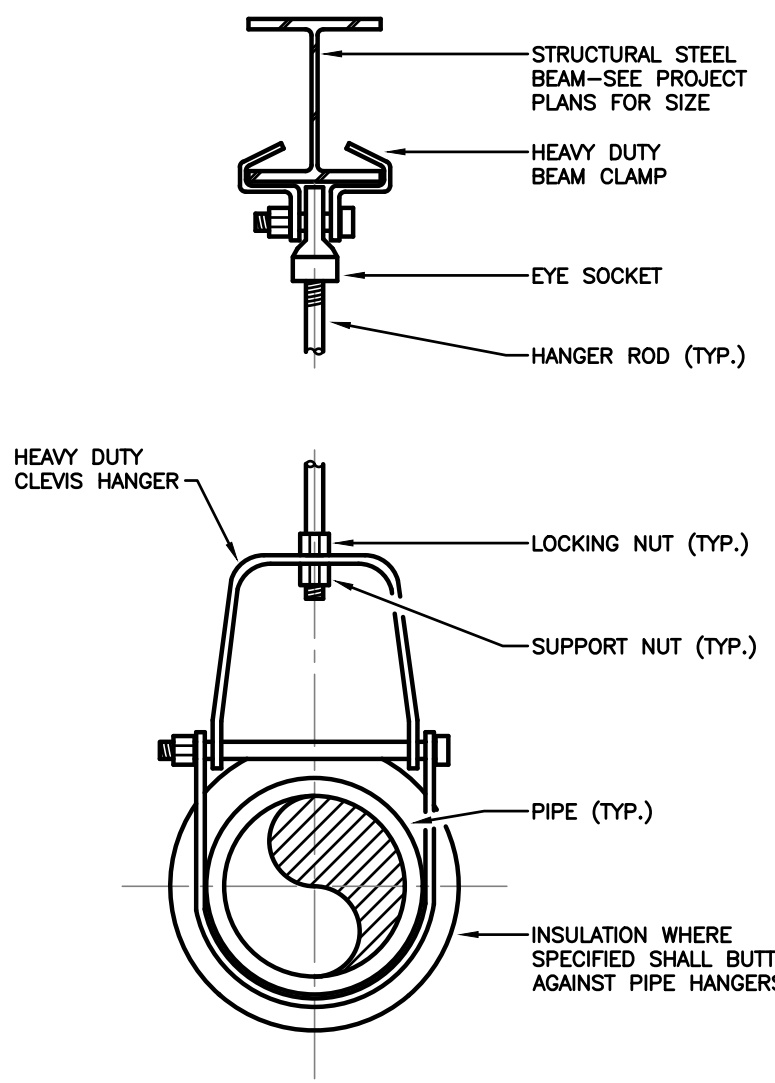
DRAWING TITLE:

MECHANICAL SCHEDULES & DETAILS

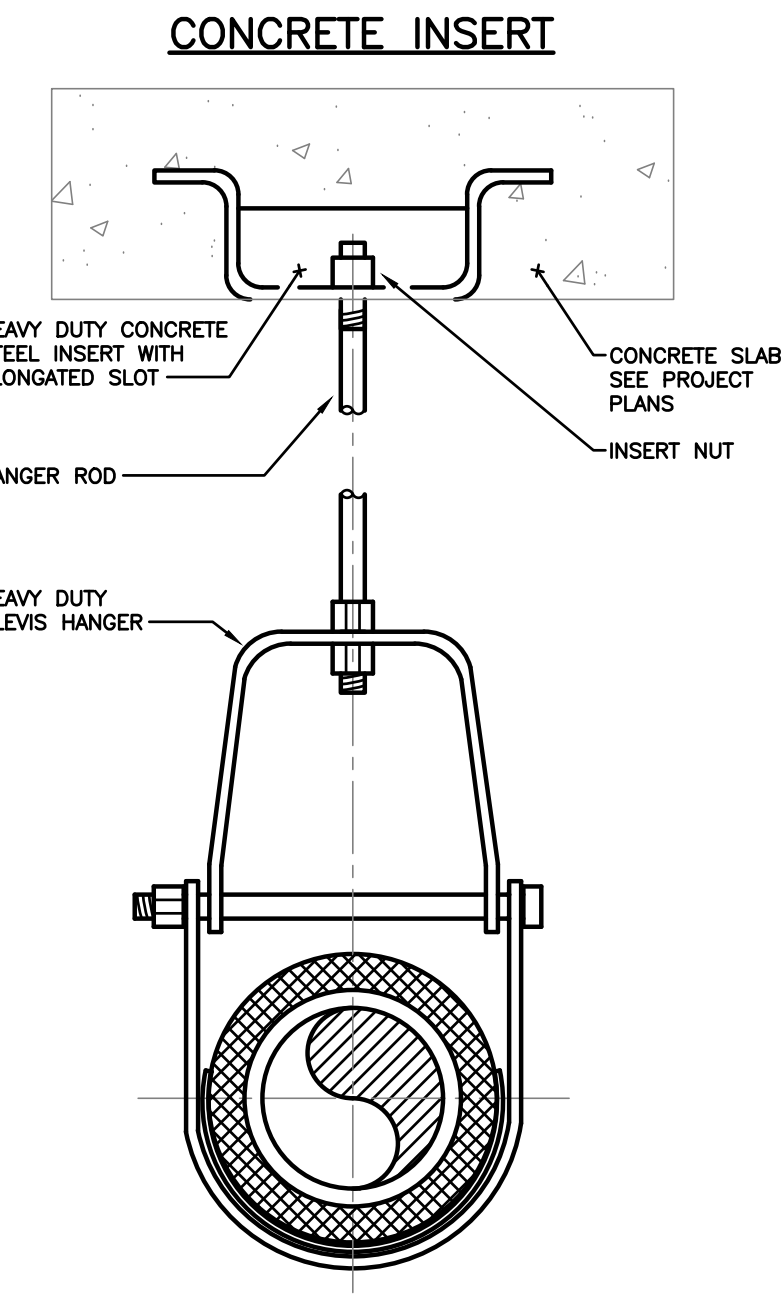
DRAWING NUMBER:

M2.0

HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.	4" THRU 5"	5/8" DIA.
2-1/2" THRU 3"	1/2" DIA.	6" THRU 12"	7/8" DIA.

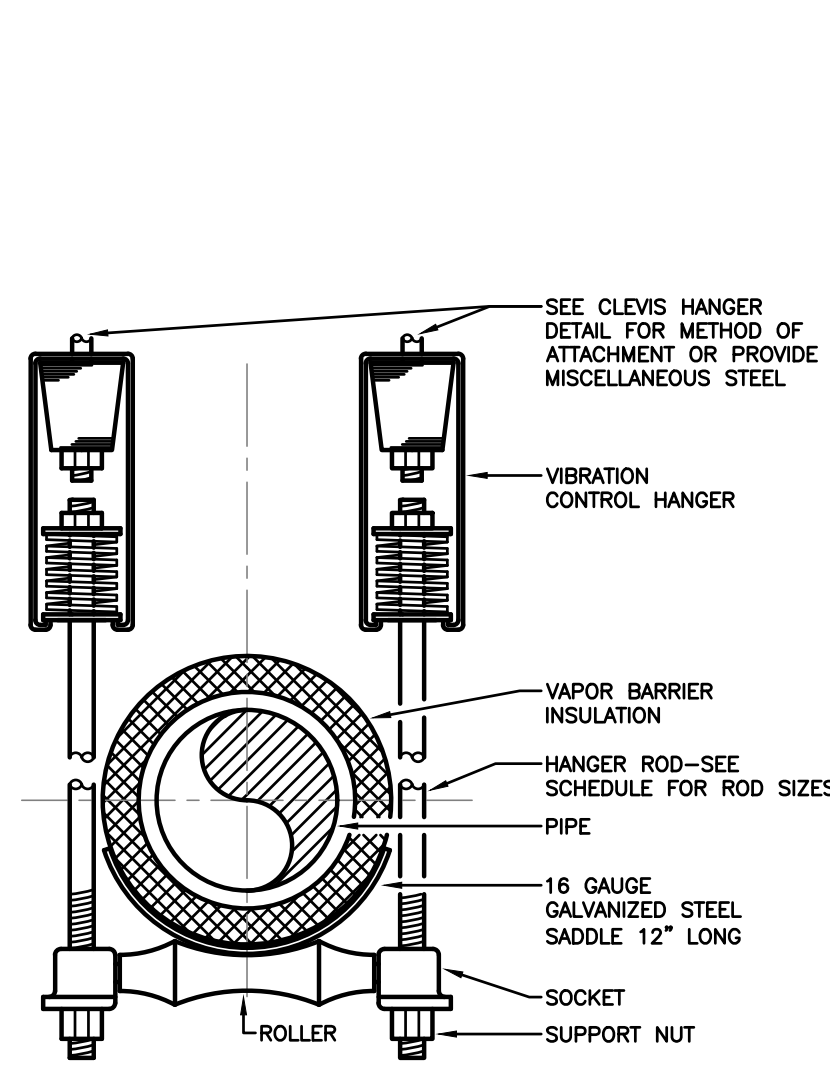


CLEVIS HANGER DETAILS
N.T.S.

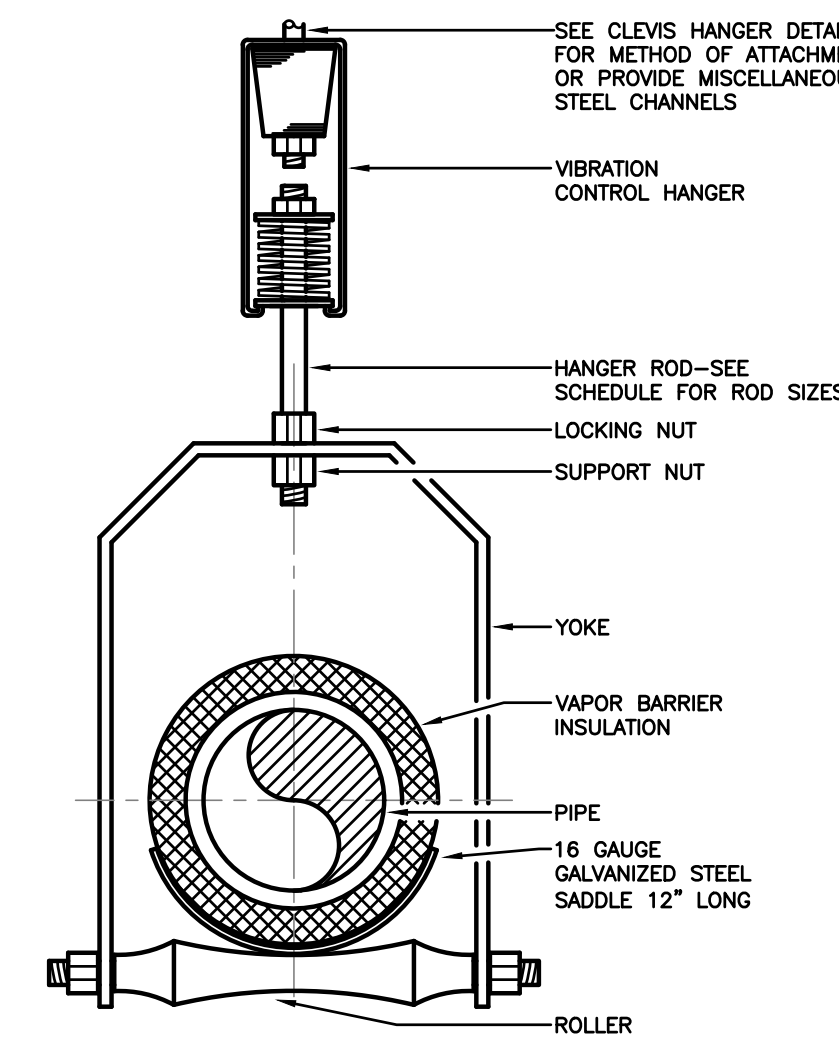


HANGER ROD SPACING												
PIPE SIZE	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
MAX. ALLOWABLE SPACING	7'	8'	9'	10'	11'	12'	14'	16'	17'	19'	22'	23'

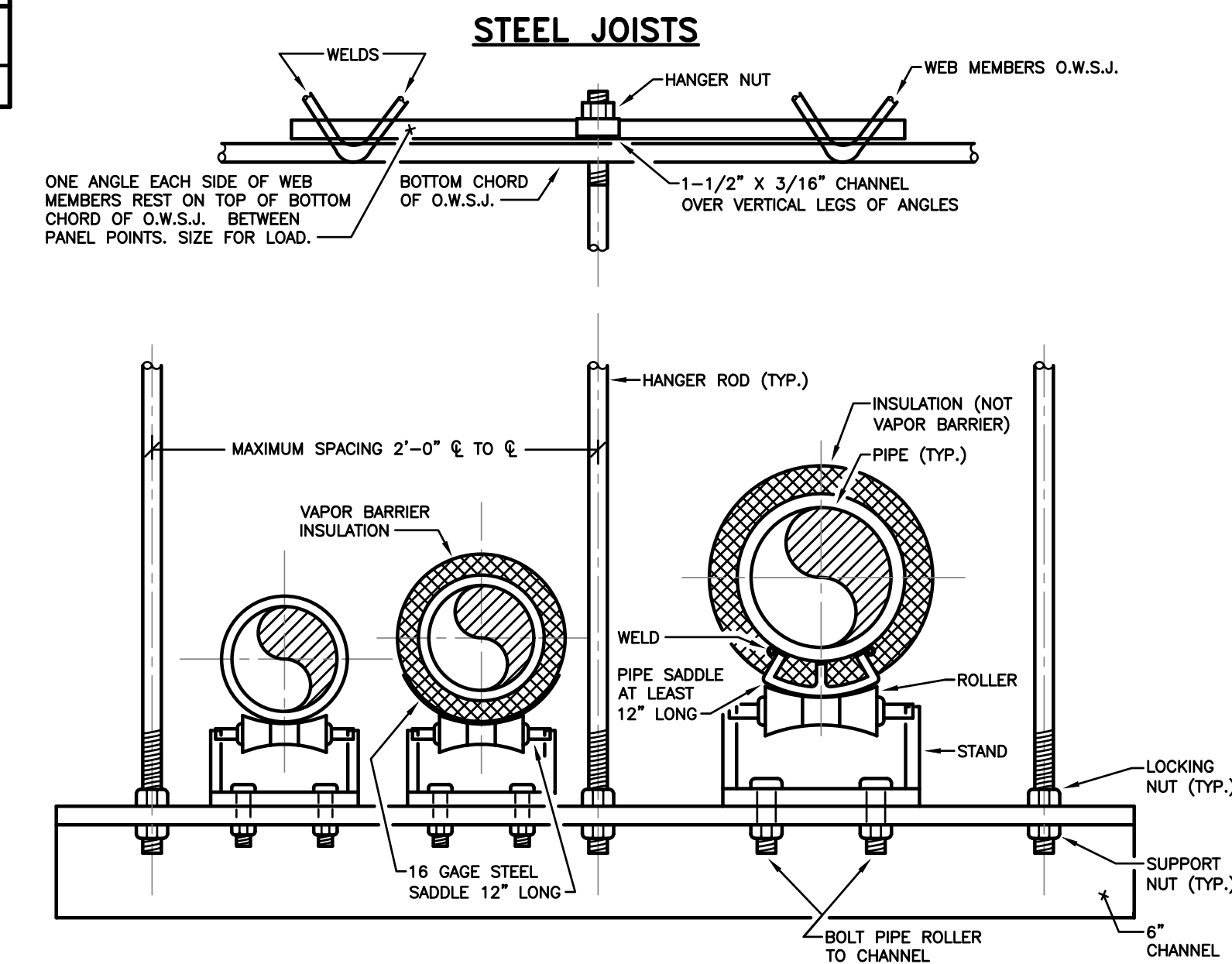
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST PIPE ON TRAPEZE.



SINGLE PIPE ROLLER HANGER
N.T.S.



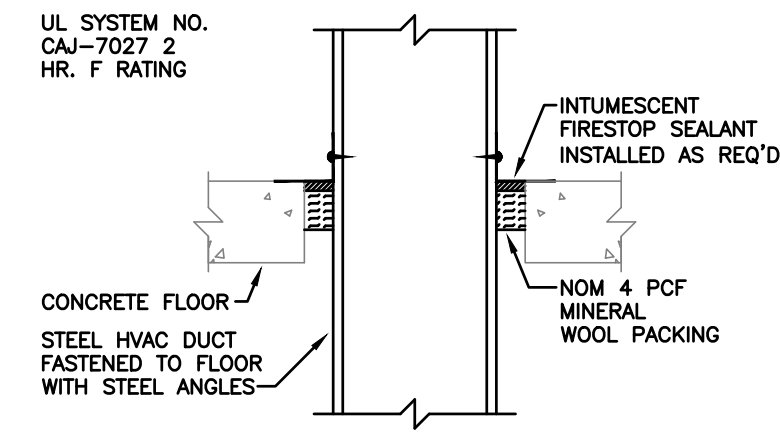
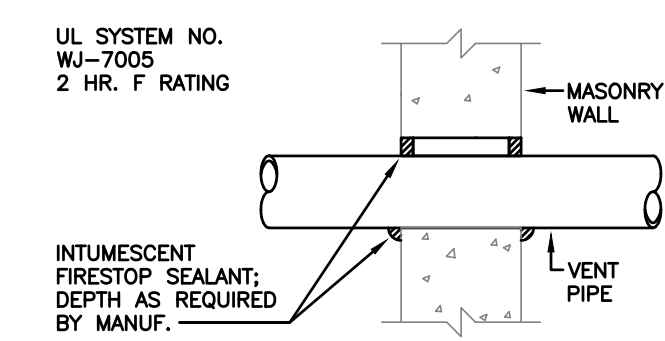
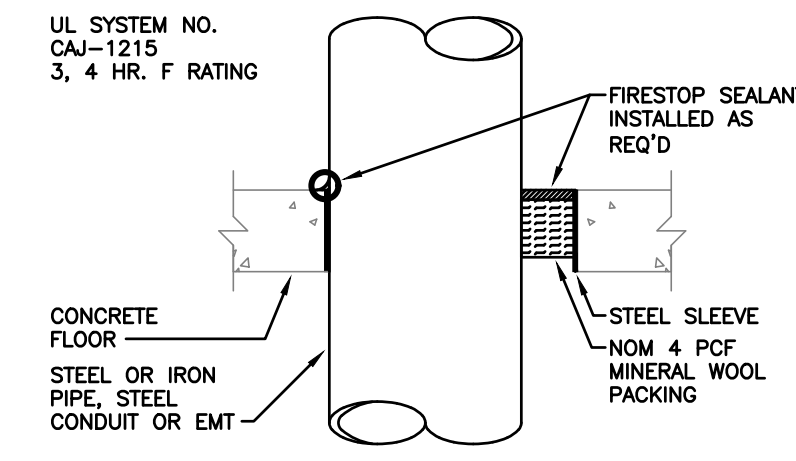
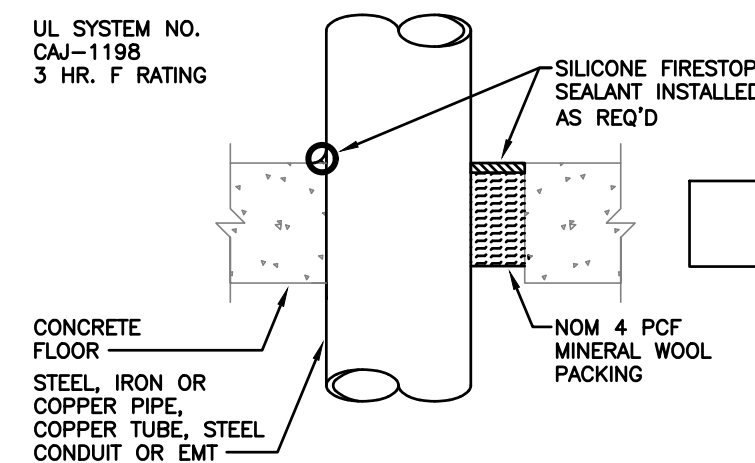
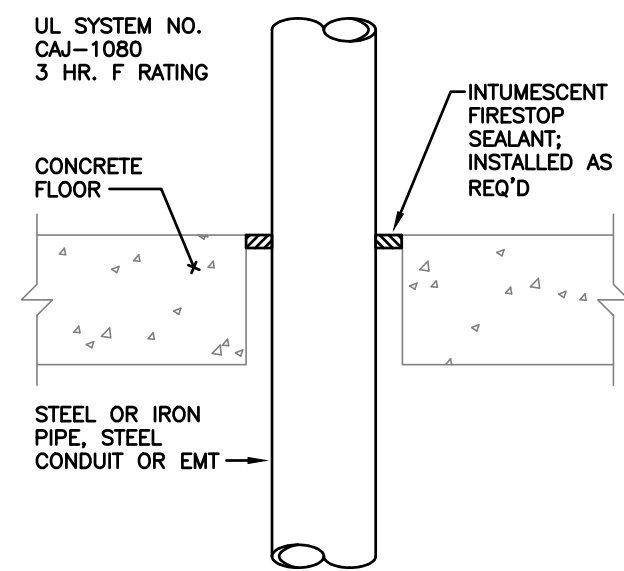
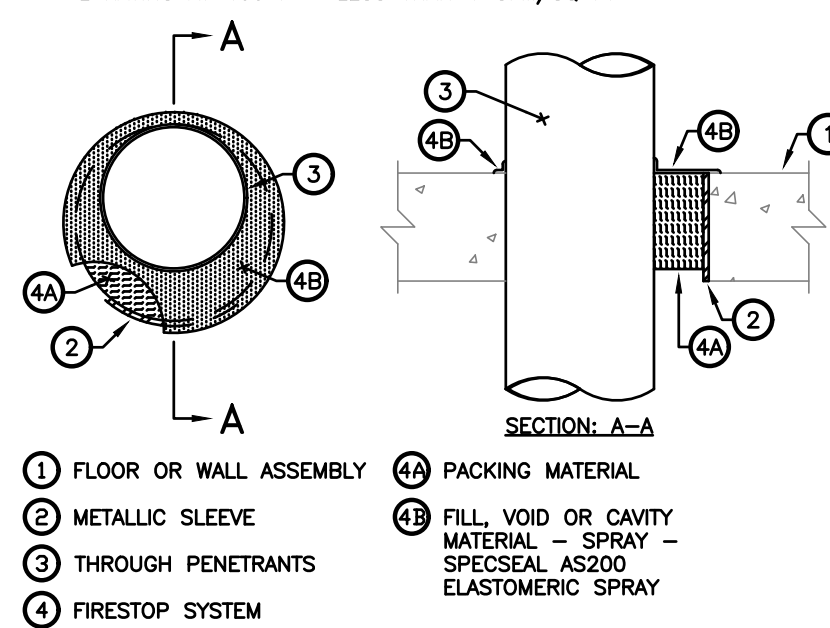
ADJUSTABLE ROLLER HANGER
N.T.S.



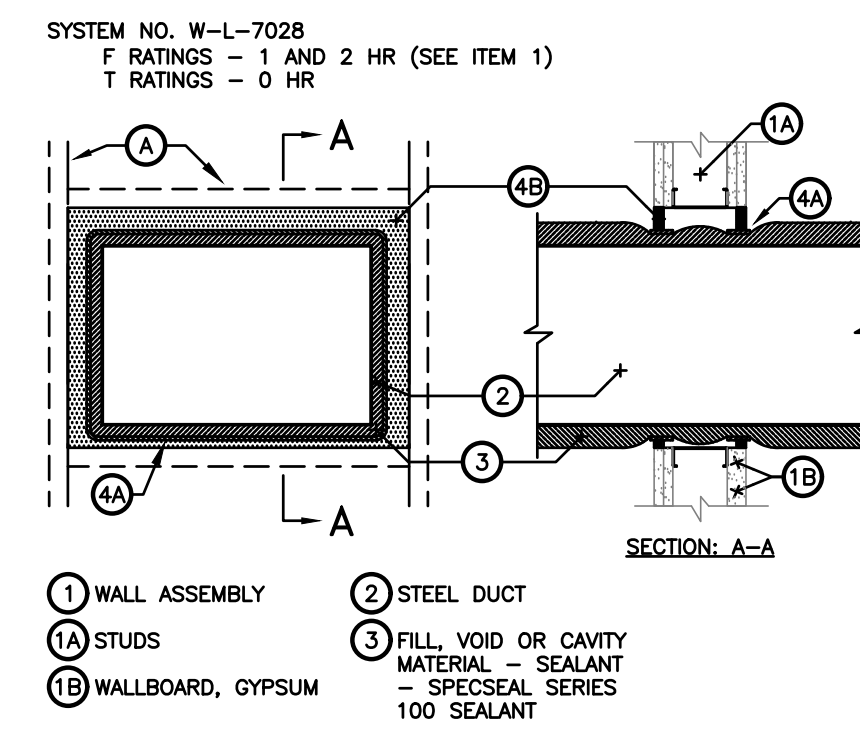
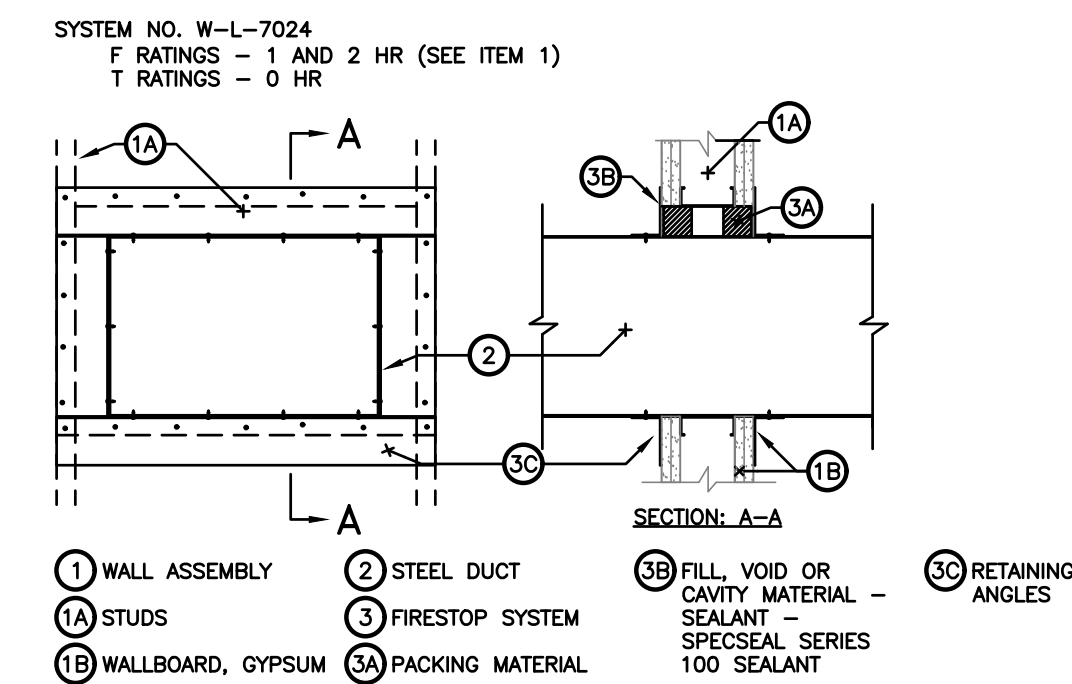
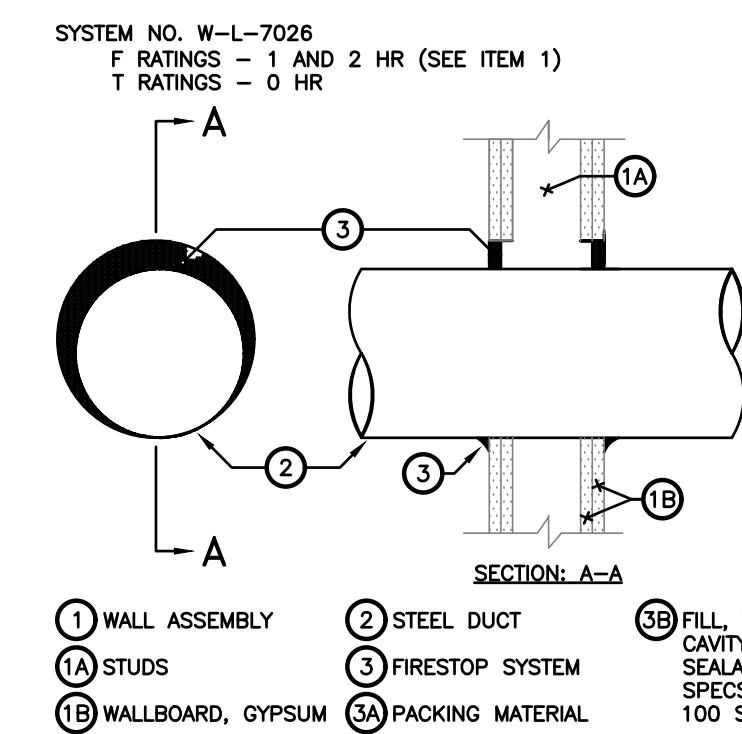
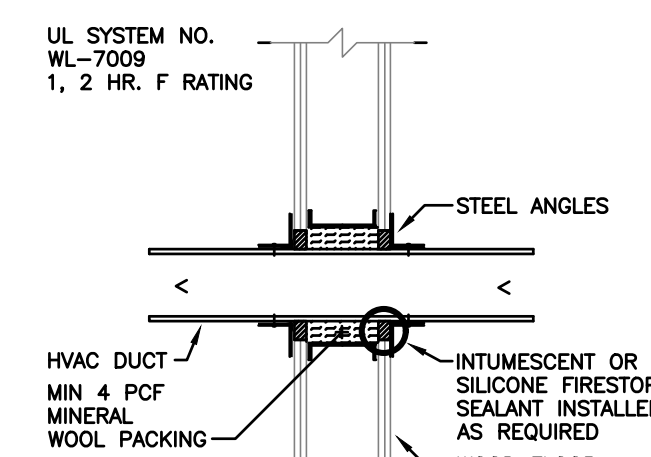
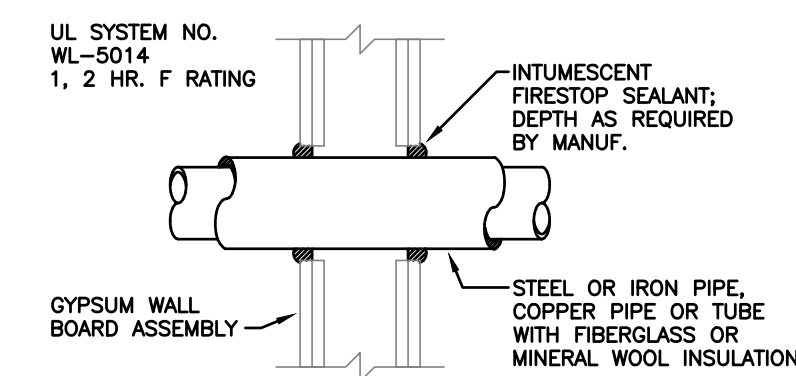
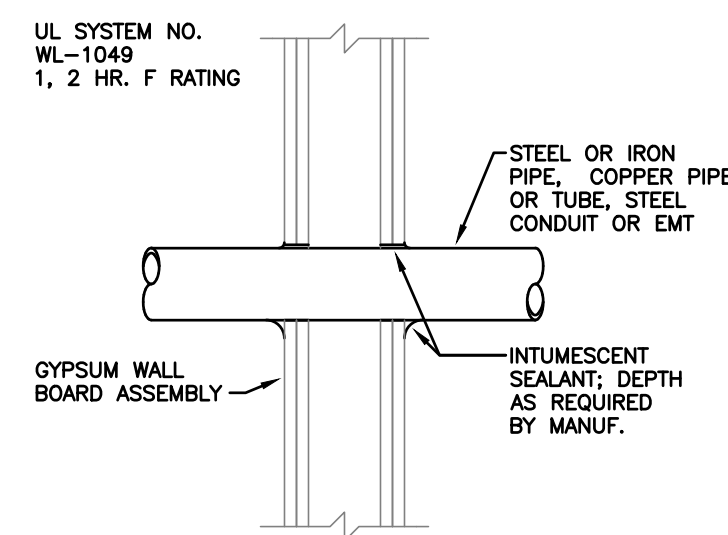
TRAPEZE HANGER DETAIL
N.T.S.

NOTE: PROVIDE CALCIUM SILICATE INSULATION AT ALL SADDLE LOCATIONS OF THICKNESS EQUAL TO ADJACENT PIPE INSULATION WHERE VAPOR BARRIER COVERING IS SPECIFIED.

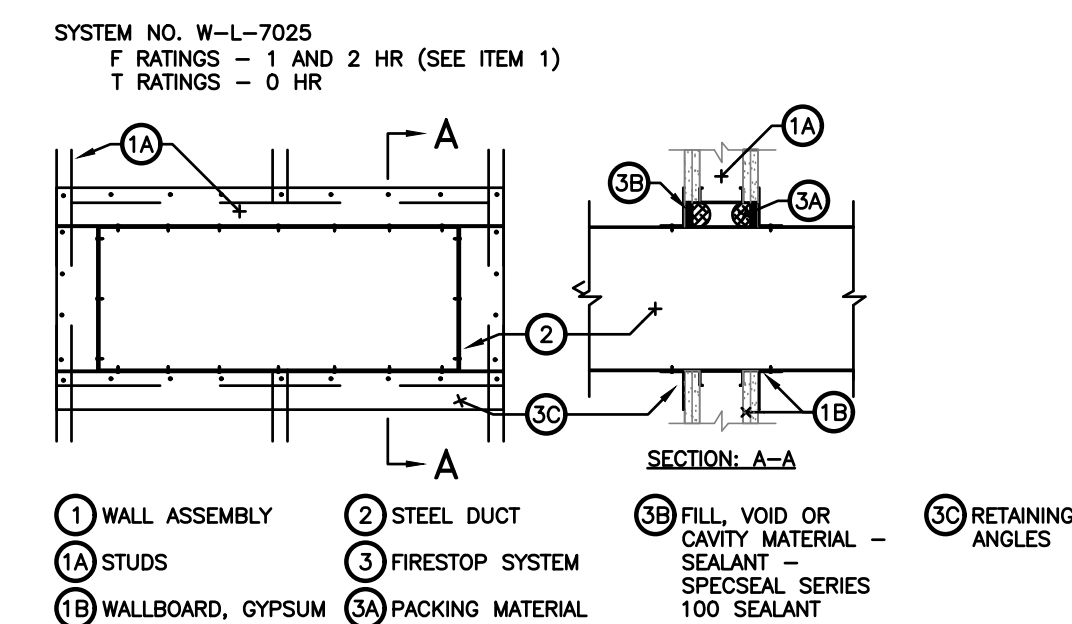
SYSTEM NO. C-AJ-1318
F RATING - 2 HR
T RATING - 0 HR
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



CONCRETE FLOOR OR WALL PENETRATION FIRE - STOP ASSEMBLY DETAILS FOR PIPING AND DUCTWORK
N.T.S.



GYPSUM BOARD PARTITION PENETRATION FIRE - STOP ASSEMBLY DETAILS FOR DUCTWORK AND PIPING
N.T.S.



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PROJECT NO.: 20230 DJVI: 2114

DATE: AUGUST 13, 2021

SCALE: AS NOTED

DRAWN: ASP/DWG

DRAWING TITLE:

MECHANICAL SCHEDULES & DETAILS CONT.

DRAWING NUMBER:

M2.1

MISC. DRAWING SYMBOLS

Table with 2 columns: Symbol and Description. Includes symbols for construction note, diagram/detail note, kitchen equipment tag, revision tag, equipment type, and equipment number.

ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Lists abbreviations for various electrical components like AMP, ABOVE COUNTER TOP, AMP FRAME OR FUSE, etc.

VACANCY SENSORS

Table with 2 columns: Symbol and Description. Lists symbols for vacancy sensor switch, dual tech hardwired sensor, occupancy sensor power pack, etc.

SYSTEMS FURNITURE/SEATING

Table with 2 columns: Symbol and Description. Lists symbols for hard-wired feed to systems furniture, power pole, conduit stub, wall box, etc.

ELECTRICAL LEGEND

VOICE/DATA/AV

Table with 2 columns: Symbol and Description. Lists symbols for data backbox, audio/visual backbox, circuit homerun, etc.

SWITCHING

Table with 2 columns: Symbol and Description. Lists symbols for standard light switch, 3-way light switch, 4-way light switch, etc.

LIGHTING FIXTURES

Table with 2 columns: Symbol and Description. Lists symbols for 2x4 LED recessed fixture, 2x4 LED emergency fixture, track lighting fixture, etc.

SECURITY SYSTEMS

Table with 2 columns: Symbol and Description. Lists symbols for security system camera, security system panel, magnetic lock, etc.

POWER

Table with 2 columns: Symbol and Description. Lists symbols for same circuit/switched separately, motor connection, disconnect switch, etc.

RECEPTACLES/DEVICES

Table with 2 columns: Symbol and Description. Lists symbols for receptacle tags, microwave, refrigerator, etc.

Table with 2 columns: Symbol and Description. Lists symbols for GFCI duplex receptacle, duplex receptacle, double duplex receptacle, etc.

FIRE ALARM

Table with 2 columns: Symbol and Description. Lists symbols for fire alarm smoke detector, fire alarm heat detector, fire alarm manual pull station, etc.

GENERAL ELECTRICAL SPECIFICATIONS

- 1. ALL WORK SHALL COMPLY AND BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES... 2. ALL ELECTRICAL EQUIPMENT, MATERIALS, DEVICES, AND APPLIANCES SHALL BE LABELED AND LISTED... 3. PROVIDE COMPLETE ELECTRICAL SYSTEMS AS INDICATED ON DRAWINGS AND SPECIFIED HEREIN...

TELECOMMUNICATIONS NOTES

- 1. CONTRACTOR SHALL PROVIDE ALL TELECOMMUNICATIONS SYSTEM COMPONENTS SUCH JACKS, CABLING, CONDUIT, BACKBOXES, RACEWAYS, ETC. IN THE BID PROPOSAL... 2. COORDINATE ALL EQUIPMENT AND DEVICES WITH THE OWNER'S TELECOMMUNICATIONS DEPARTMENT...

GENERAL WIRING METHODS

- 1. ALL CONDUCTOR INSULATION SHALL BE 90°C THHN/THWN. ALL FEEDERS AND BRANCH CIRCUITS SHALL BE COPPER... 2. ALL LUGS SHALL BE U.L. LISTED FOR USE WITH COPPER OR ALUMINUM CABLE... 3. ALL CIRCUITS TO BE 2#12, 1#12GND, UNLESS OTHERWISE NOTED...

SECURITY SYSTEM NOTES

- 1. CONTRACTOR SHALL PROVIDE ALL SECURITY SYSTEM DEVICES SUCH AS CAMERAS, CARD READERS, DOOR POSITION SWITCHES, MAGLOCKS, ETC. INCLUDING ALL RACEWAYS, BOXES, BRANCH CIRCUITS, EQUIPMENT, DEVICES, CABLING, ETC. IN THE BID PROPOSAL... 2. COORDINATE ALL EQUIPMENT AND DEVICES WITH THE OWNER'S SECURITY DEPARTMENT...

GENERAL FIRE ALARM NOTES

- 1. THIS SPECIFICATION DESCRIBES AN EXTENSION OF THE EXISTING FIRE ALARM SYSTEM FOR THE LIMITED RENOVATED AREAS OF THE EXISTING BUILDING... 2. THE SYSTEM SHALL BE IN FULL COMPLIANCE WITH NATIONAL AND LOCAL CODES... 3. THE SYSTEM SHALL INCLUDE ALL REQUIRED HARDWARE, RACEWAYS, INTERCONNECTING WIRING AND SOFTWARE...

WIRING DEVICE LOCATION & COORDINATION

- 1. THIS CONTRACTOR SHALL EXAMINE ALL ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS, ELEVATIONS, AND DETAILS BEFORE LOCATING OUTLETS, OUTLETS SHALL BE PLACED AS REQUIRED TO HARMONIZE WITH MIRRORS, PANELS, ETC... 2. IF AN OUTLET IS INSTALLED BY THIS CONTRACTOR IN SUCH A LOCATION AS TO BE OUT OF PROPER RELATION TO BEAMS, WALLS, OR OTHER DETAILS OF THE BUILDING...

GENERAL FIRESTOPPING NOTES

- 1. CONTRACTOR SHALL FIRE STOP AND SEAL ALL EXISTING OPENINGS AND ALL NEW OPENINGS RESULTING FROM THE ELECTRICAL WORK... 2. CLEAN SUBSTRATE SURFACES OF DIRT, DUST, GREASE, OIL, LOOSE MATERIAL, OR OTHER MATTER AFFECTING BOND OF FIRESTOPPING MATERIAL...

AUDIO/VISUAL SYSTEM NOTES

- 1. ALL AUDIO/VISUAL CABLING AND DEVICES WILL BE FURNISHED AND INSTALLED BY OTHERS. CONTRACTOR TO PROVIDE ALL BACKBOXES AND CONDUIT PATHWAYS... 2. FOR EACH AUDIO/VISUAL JACK PROVIDE A 4"x4"x2.125" BOX WITH TILE RING, AND (1) 1-1/4" CONDUIT EXTENDED TO AN ACCESSIBLE LOCATION ABOVE CEILING...

CODES AND STANDARDS

Table with 2 columns: Code Name and Year. Lists codes such as International Building Code 2015 (IBC), International Plumbing Code 2015, etc.

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MISSION SUBMISSION NO. 1 ISSUE: Review Set DATE: 06.24.21 NO. 2 ISSUE: 100% BID SET DATE: 08.13.21

GENERAL CONDITIONS All conditions must be verified by the contractor at the site. Notify the Architect of any discrepancies before proceeding with the work. DO NOT SCALE DRAWINGS. © 2021 Kelly Maiello Inc. PROJECT NO.: 20230 DATE: AUGUST 13, 2021 SCALE: AS NOTED DRAWING: JCB/JCB DRAWING TITLE: ELECTRICAL COVER SHEET DRAWING NUMBER: ECS

ELECTRICAL DEMOLITION NOTES

- 1 REMOVE EXISTING FIRE ALARM DEVICE AND PROVIDE NEW AS SHOWN.
- 2 REMOVE EXISTING LIGHTING FIXTURE AND LOCAL CONTROL DEVICES. EXISTING BRANCH CIRCUIT TO REMAIN AND BE RE-USED FOR THE NEW WORK.
- 3 REMOVE EXISTING RECEPTACLE(S). EXISTING BRANCH CIRCUIT TO BE RE-USED FOR THE NEW WORK AS APPLICABLE. PROVIDE NEW CIRCUITS WHERE SHOWN.
- 4 REMOVE EXISTING VOICE/DATA (AND A/V) JACK(S). REMOVE CABLING BACK TO SOURCE.
- 5 EXISTING CELLULAR TELECOMMUNICATIONS ANTENNA TO REMAIN. REMOVE AND RE-INSTALL FOR NEW CEILING CONSTRUCTION.
- 6 REMOVE EXISTING CARD READER AND WIRING BACK TO SOURCE. PROVIDE NEW WHERE SHOWN.

GENERAL DEMOLITION NOTES

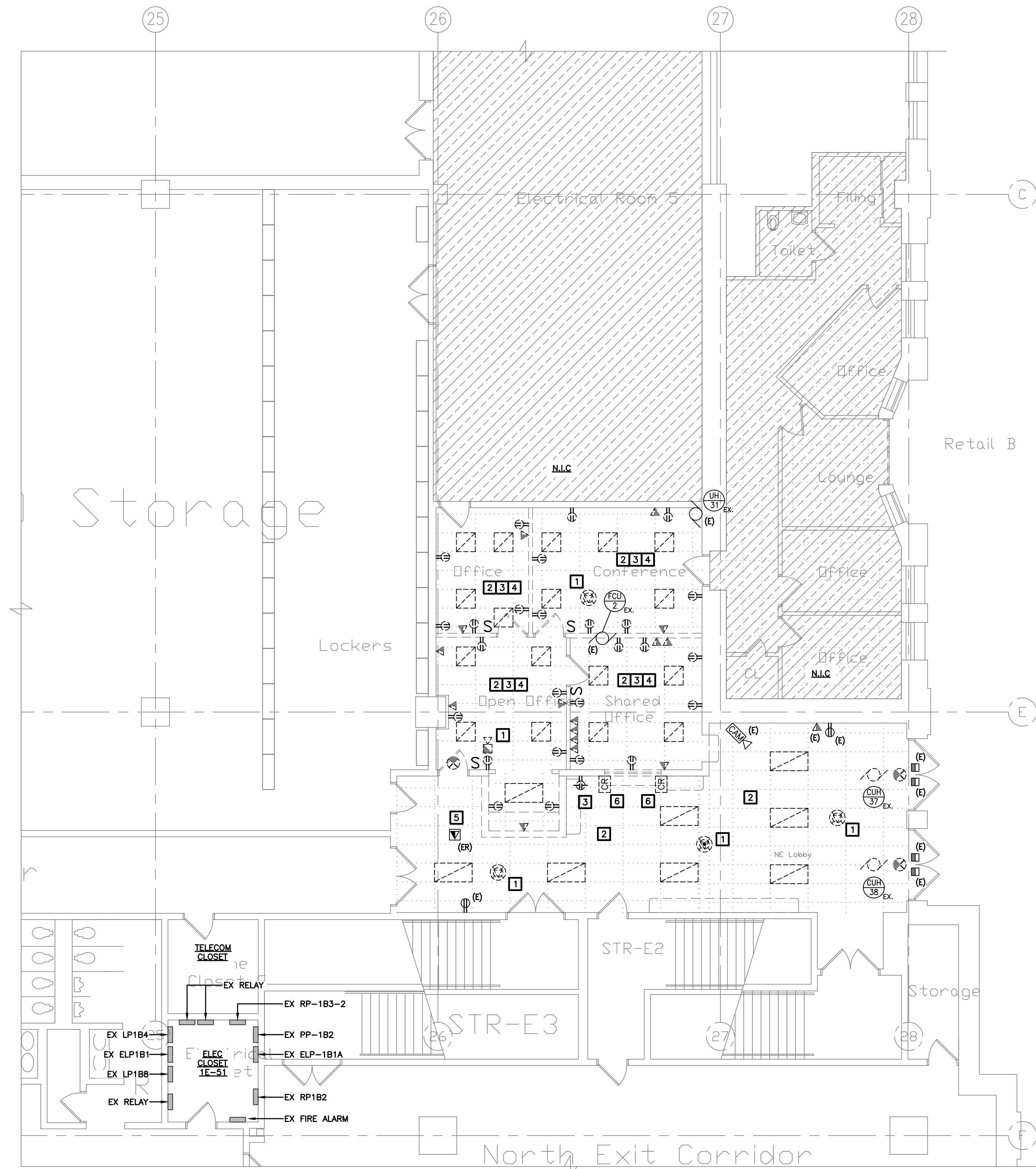
1. REMOVE CIRCUITS NOT REQUIRED IN THE AREA OF WORK BACK TO SOURCE OF POWER INCLUDING ALL HANGERS, SUPPORTS, CONDUITS, JUNCTION BOXES, ETC. ALL FEEDERS, CONDUIT, CIRCUITS, WIRING, AND CABLING PASSING THROUGH AREA OF WORK WHICH SERVES OTHER AREAS OF THE BUILDING SHALL BE RETAINED, RELOCATE AND RECONNECT AS REQUIRED FOR THE NEW CONSTRUCTION.
2. EXISTING POWER, LIGHTING, AND LOW VOLTAGE CIRCUITS BEYOND CONTRACT LIMITS SHALL REMAIN IN SERVICE. RECIRCUIT AND SWITCH AS REQUIRED.
3. CONTRACTOR SHALL BUNDLE AND SUPPORT ALL EXISTING VOICE/DATA, FIRE ALARM, SECURITY, CONTROL, ETC. CABLES REQUIRED TO REMAIN IN SERVICE, THAT WILL BE CONCEALED ABOVE NEW CEILINGS. AT NO TIME SHALL EXISTING CABLES LAY ON THE CEILING SYSTEM.
4. CONTRACTOR SHALL BUNDLE AND SUPPORT ALL EXISTING METAL CLAD (MC) CABLES REQUIRED TO REMAIN IN SERVICE, THAT WILL BE CONCEALED ABOVE NEW CEILINGS. AT NO TIME SHALL EXISTING CABLES LAY ON THE NEW OR EXISTING CEILING SYSTEM. POWER AND LOW VOLTAGE CABLES SHALL NOT BE BUNDLED TOGETHER. CABLE SHALL NOT BE SUPPORTED FROM THE SPRINKLER PIPING.
5. ALL EXISTING FIRE ALARM DEVICES IN THE AREA OF WORK TO BE REPLACED WITH NEW UNLESS OTHERWISE NOTED TO REMAIN OR BE RELOCATED. RELOCATE AND PROVIDE NEW AS SHOWN. EXISTING STROBE CANDELA RATING SHALL BE CHANGED TO COMPENSATE FOR THE NEW LOCATIONS. NEW DEVICE CANDELA RATINGS SHALL BE BASED ON THE NEW LAYOUT AND ROOM CONFIGURATION/SIZE.
6. REMOVE ALL COVER PLATES AT EXISTING TO REMAIN DEVICES AND PROVIDE NEW DEVICE PLATES AS SPECIFIED. PROVIDE BOX EXTENSIONS AS REQUIRED.
7. REMOVE ALL ABANDONED WIRING AND CABLING FROM ABOVE ALL CEILINGS.
8. ALL WORK ON THE DRAWINGS AND IN THE SPECIFICATIONS SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL, PRIOR TO BIDDING, VISIT THE SITE AND REVIEW THE COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR EACH TRADE, INCLUDING ADDENDUMS, TO VERIFY THE EXTENT OF EQUIPMENT, DEVICES, LIGHT FIXTURES, FEEDERS, JUNCTION/PULL BOXES, AND BRANCH CIRCUITS THAT MUST BE RELOCATED AND INCLUDE THIS COST IN THE BID PROPOSAL.
9. REMOVE AND/OR RELOCATE EXISTING EQUIPMENT AS REQUIRED BY THE RENOVATIONS AND TO ACCOMMODATE THE NEW MECHANICAL AND PLUMBING EQUIPMENT, PIPING, AND DUCTWORK. RECONNECT DISTURBED EQUIPMENT AND PLACE IN OPERATING CONDITION.
10. WHERE PARTS OF THE EXISTING WIRING SYSTEM ARE DISRUPTED, REWORK WIRING AS REQUIRED TO RE-ENERGIZE LOADS THAT ARE TO REMAIN IN OPERATION. CUT THE STRUCTURE ON EACH SIDE OF OUTLETS TO BE REMOVED, REMOVE EXISTING CONDUIT AND WIRING, PROVIDE NEW CONDUIT AND WIRING BETWEEN REMAINING OUTLETS, MAKE FINAL CONNECTIONS, AND PATCH STRUCTURE.
11. WHERE OUTLETS ARE CUT OFF FROM AN EXISTING FEED, RE-FEED THEM FROM ANOTHER DIRECTION IF POSSIBLE, AND PROVIDE NEW CONDUIT AND WIRE IF NECESSARY.
12. REMOVE AND/OR RELOCATE EXISTING FEEDER AND BRANCH CIRCUIT WIRING AND CONDUIT AS REQUIRED BY THE RENOVATIONS AND TO ACCOMMODATE THE NEW MECHANICAL AND PLUMBING EQUIPMENT, PIPING, AND DUCTWORK. RECONNECT DISTURBED FACILITIES AND PLACE IN OPERATING CONDITION.
13. REMOVE CIRCUITS NOT REQUIRED IN THE RENOVATED AREA BACK TO SOURCE OF POWER INCLUDING ALL HANGERS, SUPPORTS, CONDUITS, JUNCTION BOXES, ETC. ALL FEEDERS, CONDUIT, CIRCUITS, WIRING, AND CABLING PASSING THROUGH RENOVATED AREA WHICH SERVES OTHER AREAS OF THE BUILDING SHALL BE RETAINED. RELOCATE AND RECONNECT AS REQUIRED FOR THE NEW CONSTRUCTION.
14. REMOVE EXISTING CONDUIT AND WIRING WHERE NO LONGER REQUIRED, AND REMOVE THEM WHERE THEY INTERFERE WITH NEW CONSTRUCTION.
15. PROMPTLY REMOVE USED MATERIAL FROM THE SITE IF IT IS NO LONGER REQUIRED. WHERE INDICATED, DELIVER USED MATERIAL TO THE OWNER WHERE DIRECTED ON THE SITE.
16. EXISTING CONDUIT ALREADY INSTALLED IN THE STRUCTURE MAY BE REUSED IF IT IS IN GOOD CONDITION.

EXISTING BRANCH CIRCUITS

1. CONTRACTOR SHALL METER THE LOAD ON EACH EXISTING LIGHTING CIRCUIT AND VERIFY WHICH CIRCUITS HAVE CAPACITY FOR THE NEW FIXTURE LOAD. NEW LIGHT FIXTURES AND DEVICES SHALL BE TIED INTO THE AVAILABLE CIRCUIT THAT HAS SPARE CAPACITY AT THE EXISTING PANEL, UNLESS OTHERWISE SHOWN TO BE DEDICATED. CONTRACTOR TO TRACE-OUT ALL EXISTING CIRCUITS AND DEVICES.
2. BRANCH CIRCUIT NUMBERS WERE DERIVED FROM EXISTING PANEL SCHEDULES AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL TRACE OUT EXISTING CIRCUITS, FIELD VERIFY SOURCE, AND PROVIDE NEW TYPED PANEL SCHEDULES INDICATING NEW AND EXISTING CIRCUITS.

CUTTING AND PATCHING

1. ALL CUTTING AND PATCHING SHALL BE PERFORMED BY THE CONTRACTOR. ALL HOLES SHALL BE CORE BORED. ALL FLOORS, BLACKTOP, WALKS, CURBS, ETC. SHALL BE SAW CUT. PROVIDE ALL CUTTING AND PATCHING REQUIRED FOR WORK PERFORMED UNDER THIS CONTRACT. NO HOLES MAY BE CUT OR DRILLED IN STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL OF OWNER'S REPRESENTATIVE. CUTTING SHALL BE DONE BY MECHANICS SKILLED IN THEIR RESPECTIVE TRADES.
2. CONTRACTOR SHALL PATCH WALLS WHERE EXISTING DEVICES HAVE BEEN REMOVED. MATCH EXISTING FINISH AND TEXTURE.
3. NO CUTTING THAT MAY IMPAIR THE STRENGTH OF THE BUILDING CONSTRUCTION SHALL BE DONE. NO HOLES MAY BE DRILLED IN OR ATTACHMENTS WELDED TO THE BEAMS OR OTHER STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL FROM THE OWNER'S REPRESENTATIVE. ALL WORK SHALL BE DONE BY MECHANICS SKILLED IN THEIR TRADE.
4. ALL PATCHING SHALL BE DONE IN A MANNER TO MATCH APPEARANCES AND QUALITY OF EXISTING SURFACES.
5. UNLESS OTHERWISE INDICATED, THE CONTRACTOR SHALL PATCH AND SEAL ALL WALLS, FLOORS, CEILINGS (DRYWALL, PLASTER, LAY-IN CEILINGS, ETC.) SOFFITS, ETC. WHERE EXISTING ITEMS SUCH AS CONDUIT, RACEWAYS, HANGERS, SUPPORTS, ETC. ARE REMOVED OR NEW WORK IS INSTALLED UNDER THIS CONTRACT. ALL PATCHING SHALL BE PERFORMED WITH EQUIVALENT MATERIALS AND FINISHES AND SHALL MATCH ADJOINING SURFACES IN BOTH TEXTURE AND FINISH.
6. REMOVE AND REPLACE EXISTING CEILING SYSTEM TILES AND GRIDS AS REQUIRED TO INSTALL THE NEW WORK. REPAIR AS NECESSARY AND USE NEW GRIDS AND TILES TO MATCH THE EXISTING.



PARTIAL FLOOR PLAN - DEMOLITION

SCALE: 1/8" = 1'-0"



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2	100% BID SET	08.13.21

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PROJECT NO.: 20230 DJV: 2114

DATE: AUGUST 13, 2021

SCALE: AS NOTED

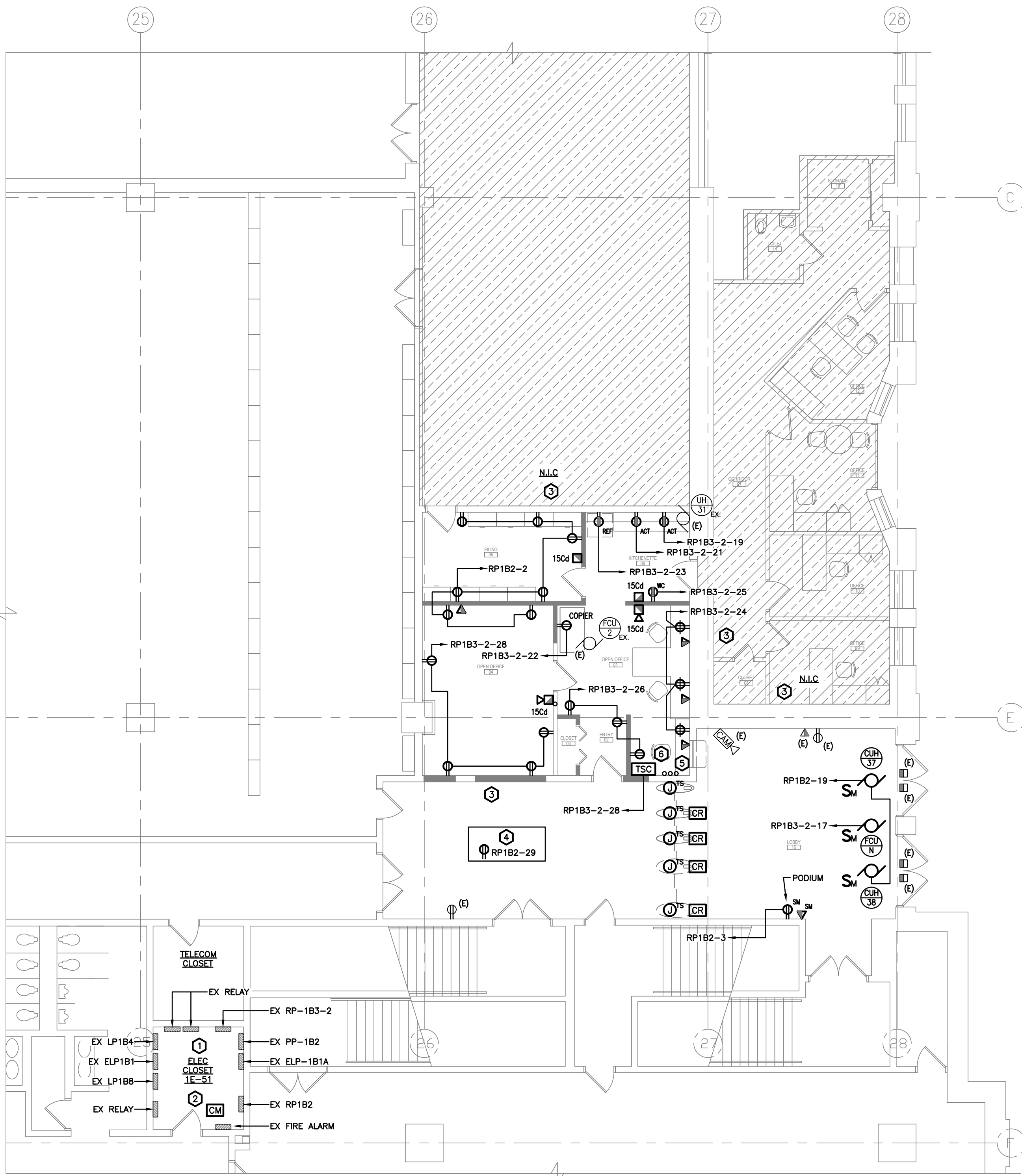
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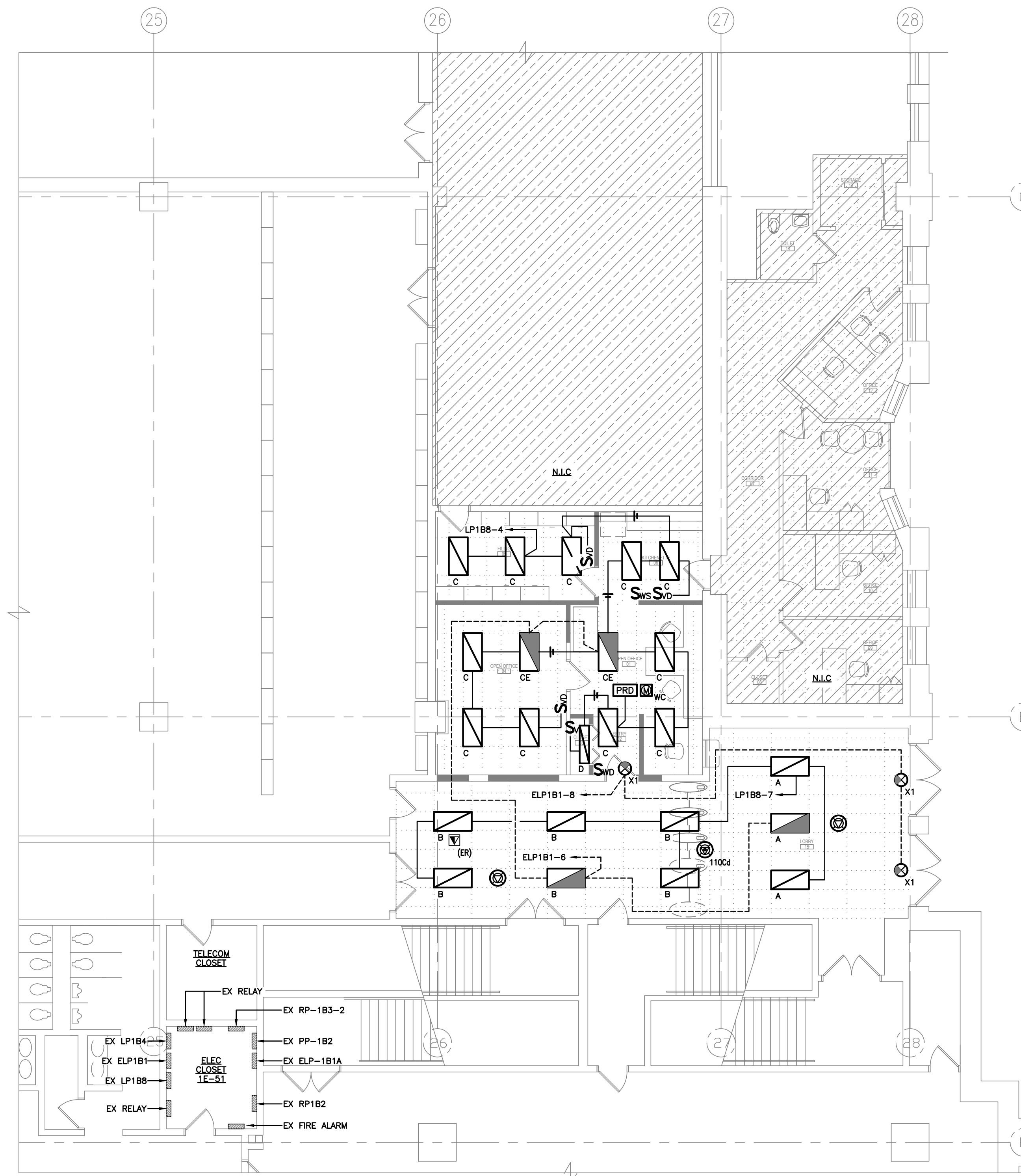
**ELECTRICAL
 DEMOLITION PLAN**

DRAWING NUMBER:

E0-01



PARTIAL FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"



PARTIAL FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

ELECTRICAL CONSTRUCTION NOTES

- 1 PROVIDE NEW 20/1 CIRCUIT BREAKERS IN EXISTING PANELS FOR NEW CIRCUITS.
 - 2 PROVIDE NEW ADDRESSABLE CONTROL MODULE FOR INTERFACE TO NEW TURNSTILES. PROVIDE ALL CONTROL WIRING BETWEEN FIRE ALARM PANEL AND TURNSTILE CONTROLLER.
 - 3 FIRE STOP ALL NEW AND EXISTING PENETRATIONS THROUGH FIRE RATED WALL.
 - 4 EXACT LOCATION OF RECEPTACLE FOR NEW AV EQUIPMENT TO BE VERIFIED IN THE FIELD WITH OWNER PRIOR TO ROUGH-IN.
 - 5 PROVIDE DEDICATED CONDUITS FROM TURNSTILE BASE TO THE ELECTRICAL CLOSET AND TELECOM CLOSET FOR THE FOLLOWING SERVICES:
 - (1) FIRE ALARM INTERFACE (ELECT CLOSET)
 - (1) CARD READER COMMUNICATIONS AND CONTROL (TELECOM CLOSET)
 - (1) DATA CABLING (TELECOM CLOSET)
 - 6 PROVIDE CONDUIT BETWEEN THE TURNSTILE CONTROLLER/POWER SUPPLY TO THE TURNSTILE BASE.
- CONDUITS TO BE PAINTED TO MATCH ADJACENT FINISHES.

SEAL

SUBMISSION

NO.	ISSUE	DATE
1	Review Set	06.24.21
2	100% BID SET	08.13.21

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DRAWING TITLE:

**ELECTRICAL
NEW WORK PLANS**

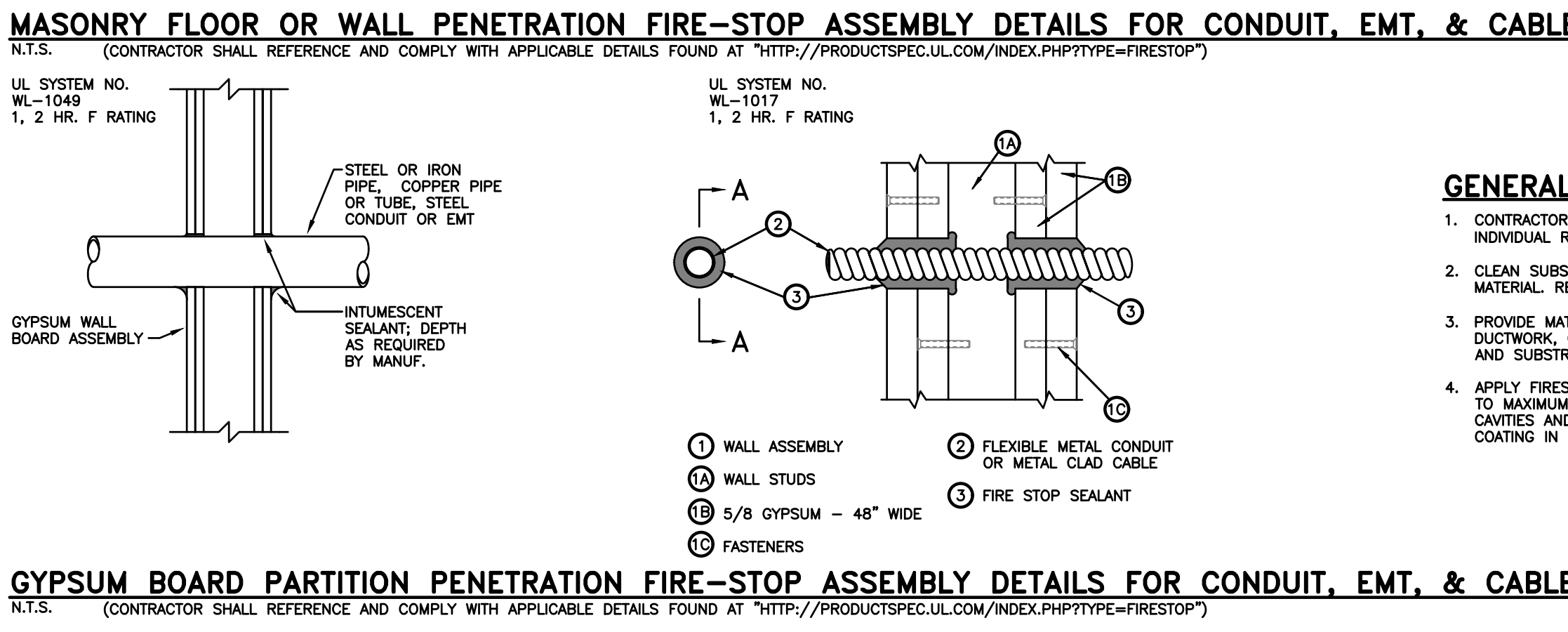
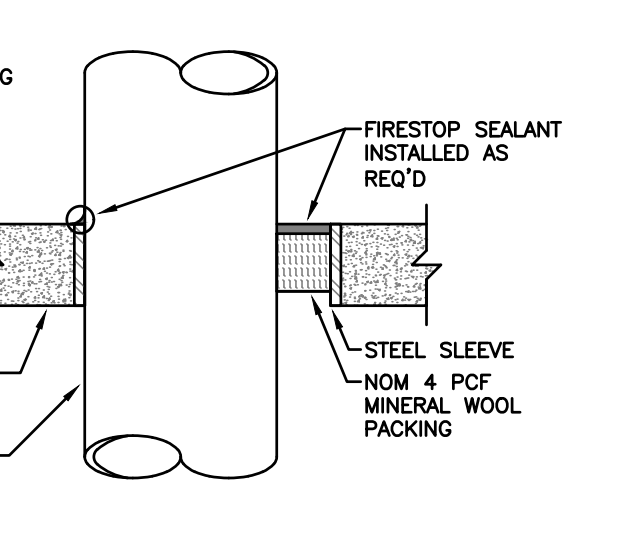
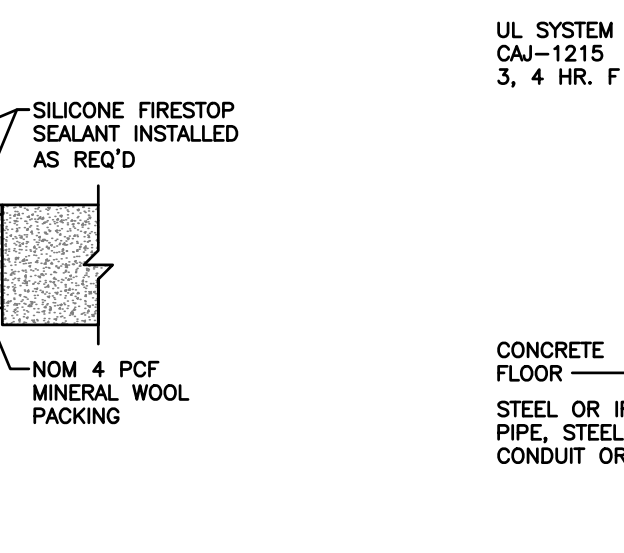
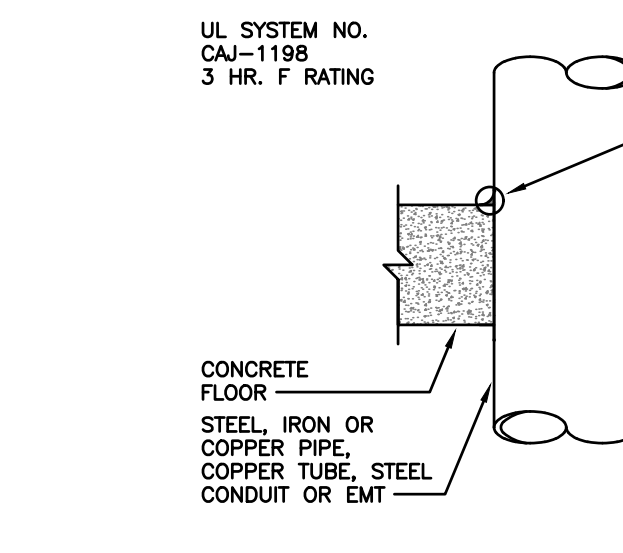
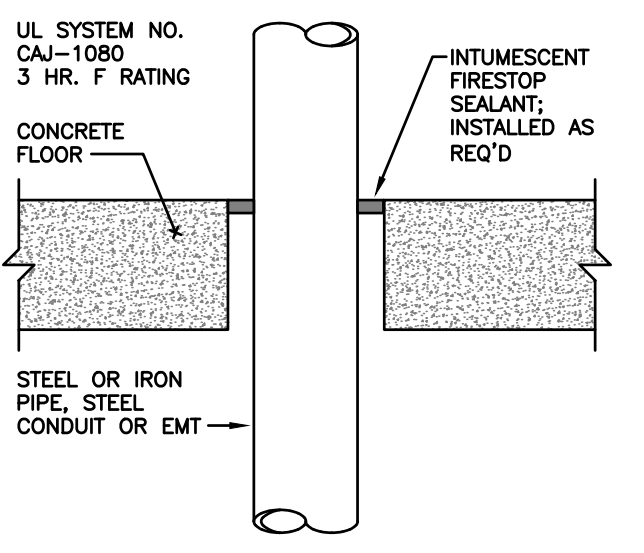
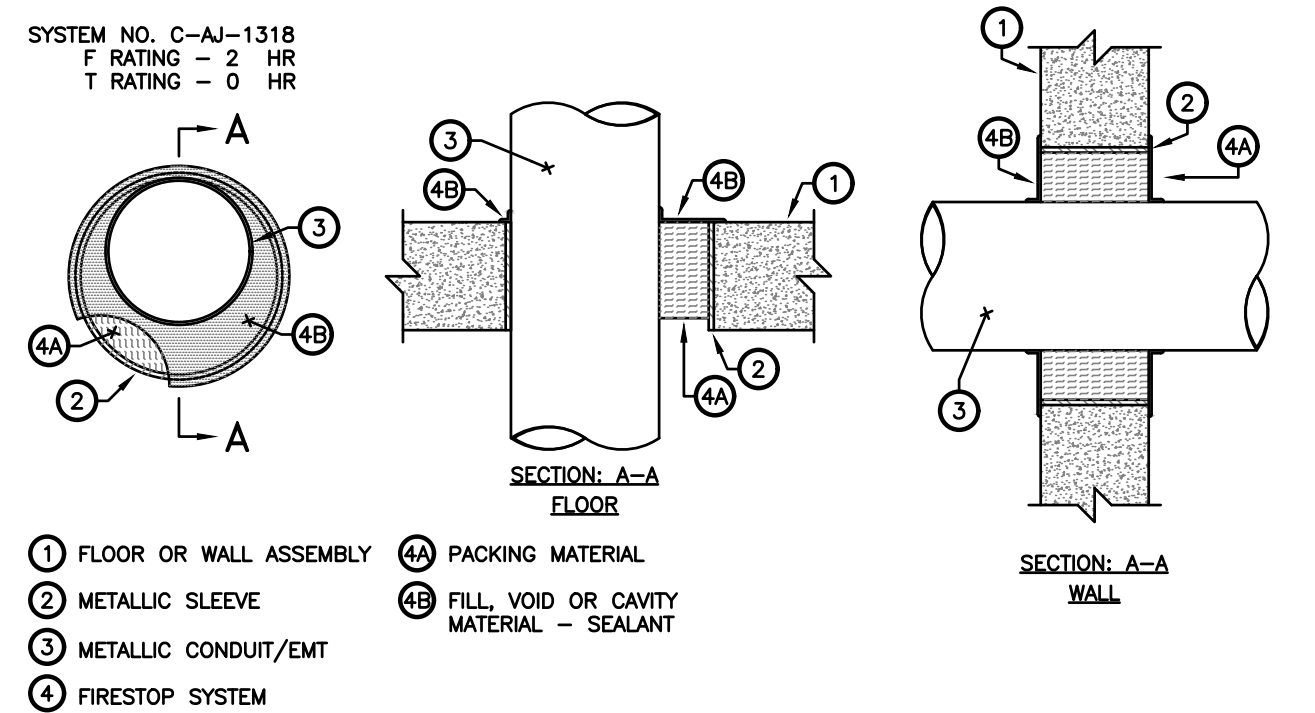
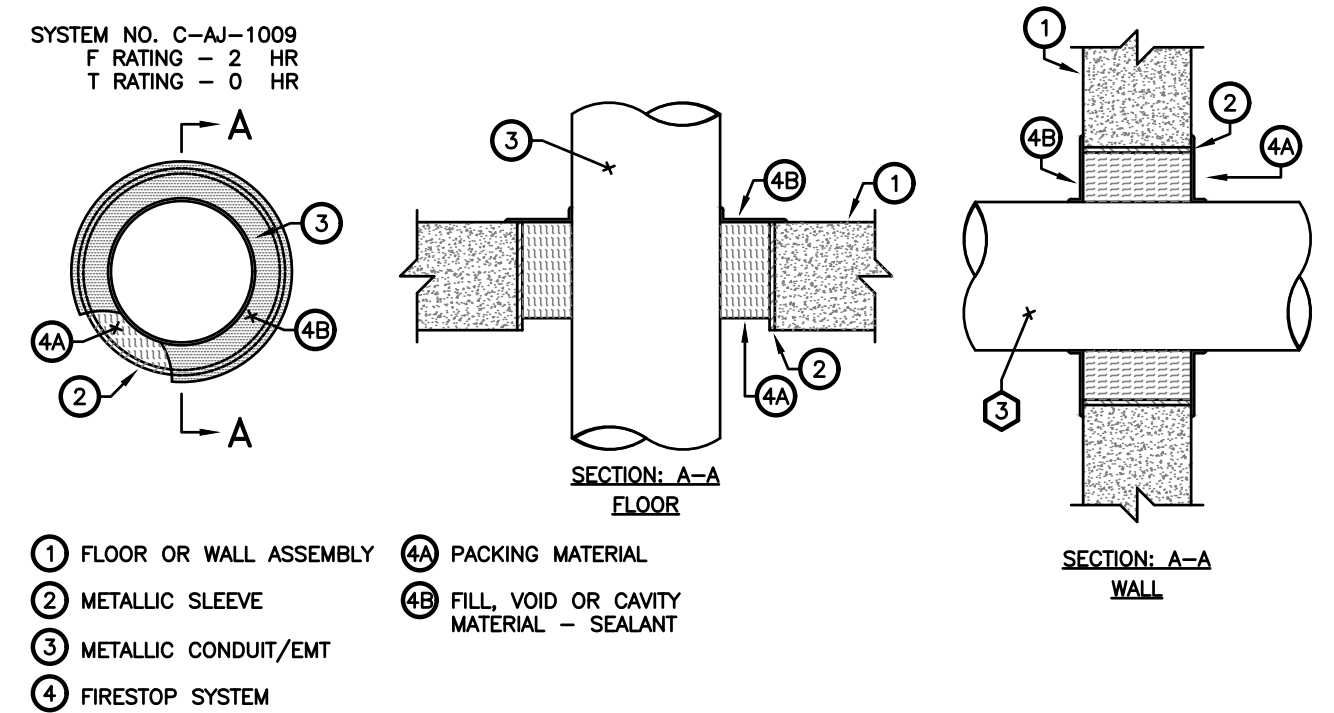
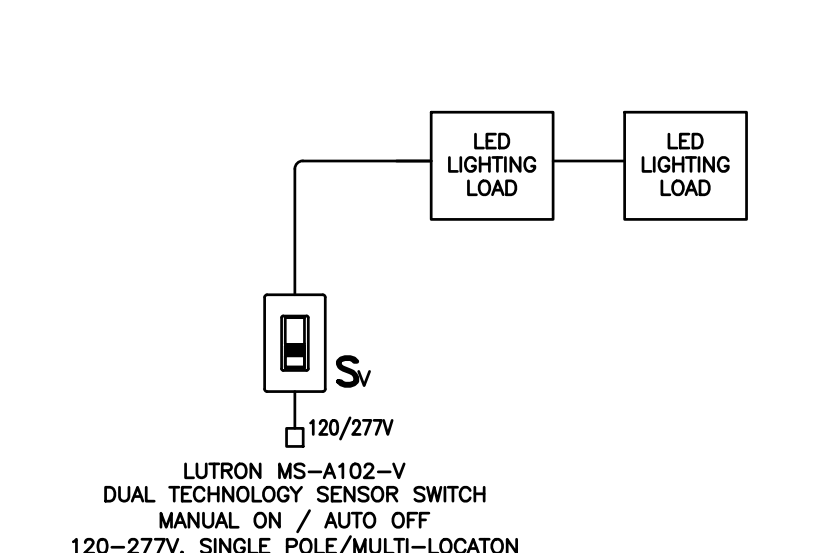
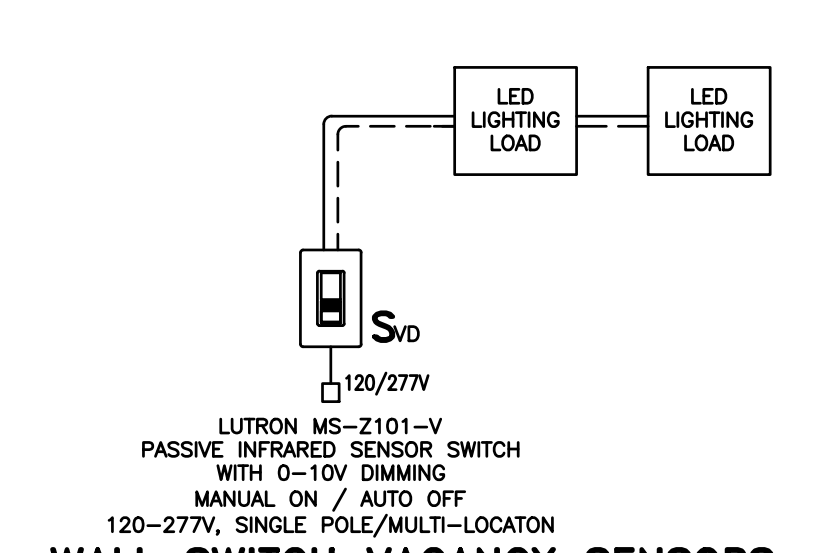
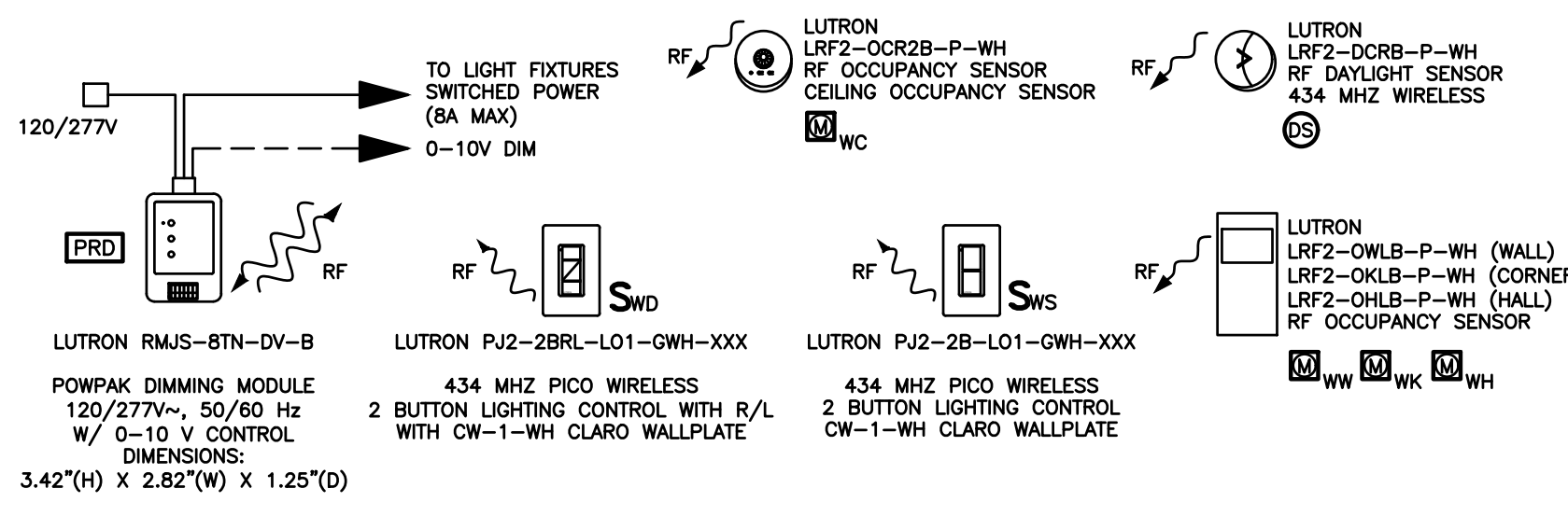
DRAWING NUMBER:

E1-01

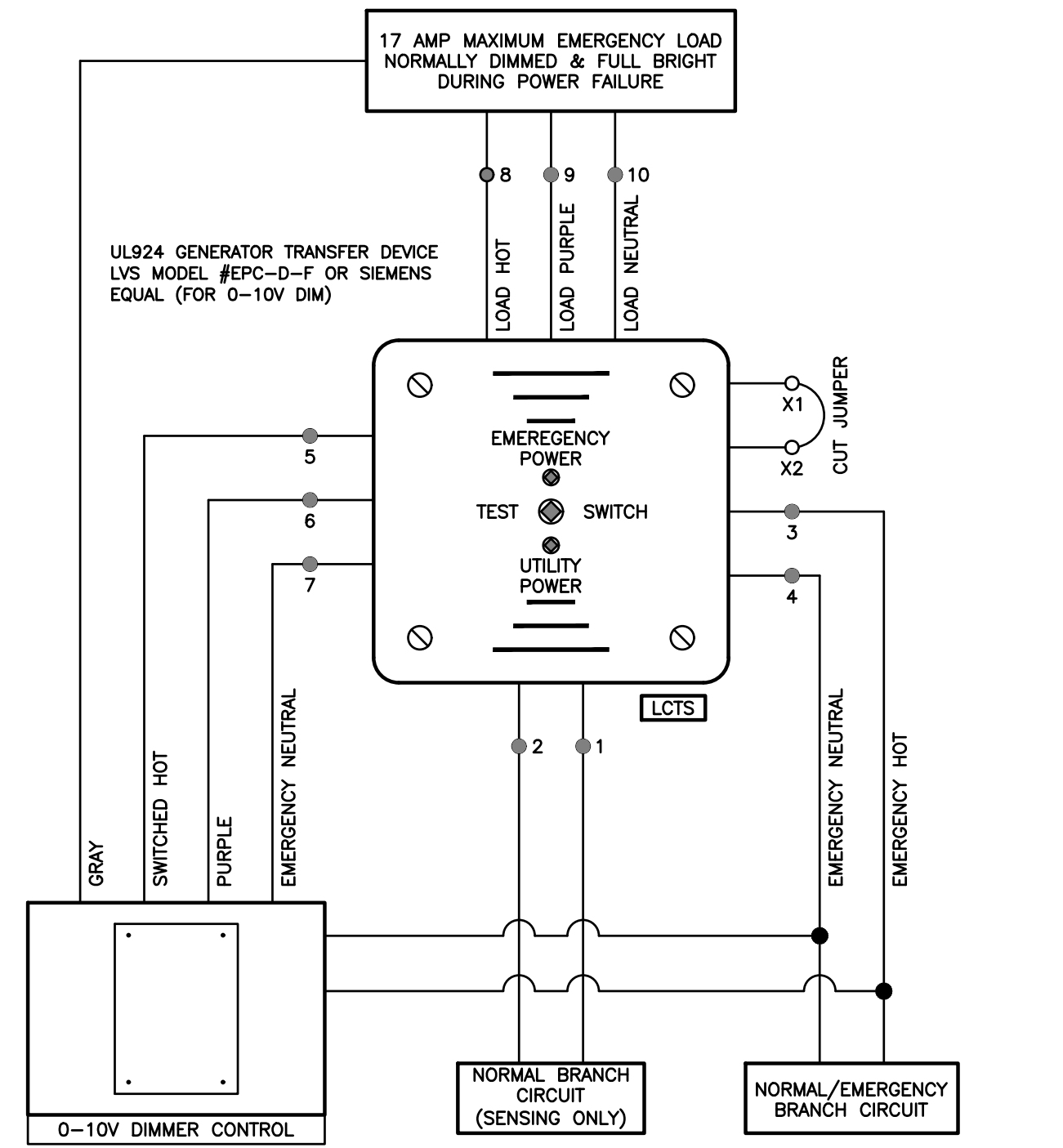
LIGHTING FIXTURE SCHEDULE											
TYPE	DESCRIPTION	MOUNTING TYPE	CEILING TYPE	MOUNTING HEIGHT	VOLTS	LAMP TYPE	SYSTEM WATTS	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN CATALOG NO.	CONTROL	NOTES
A	2x4 EDGE LIT LED FLAT PANEL	RECESSED	ATC	CEILING	120/277	LED 5024 LUMENS 3500K / 80 CRI	50	COLUMBIA	CFP24-55/41/3435	NA	FIELD SELECTABLE LUMENS
B	2x4 EDGE LIT LED FLAT PANEL	RECESSED	ATC	CEILING	120/277	LED 3197 LUMENS 3500K / 80 CRI	30	COLUMBIA	CFP24-55/41/3435	NA	FIELD SELECTABLE LUMENS
C	2x4 LED ARCHITECTURAL TROFFER	RECESSED	ATC	CEILING	120/277	LED 4570 LUMENS 3500K / 80 CRI	30	COLUMBIA	LCAT24-35LWG-R-ED-U	0-10V	-
CE	2x4 LED ARCHITECTURAL TROFFER WITH UL924 EMERGENCY LIGHTING RELAY FOR 0-10V DIMMING	RECESSED	ATC	CEILING	120/277	LED 4570 LUMENS 3500K / 80 CRI	30	COLUMBIA	LCAT24-35LWG-R-ED-U-DTS	0-10V	EMERGENCY BYPASS RELAY
D	LED UTILITY LIGHT	SURFACE	GYPSUM BOARD	ABOVE CLOSET DOOR	120/277	LED 3507 LUMENS 4000K / 80 CRI	30	COLUMBIA	CNW4-3540	NA	-
X1	SINGLE FACE CAST ALUMINUM LED EXIT SIGN WITH BRUSHED ALUMINUM FACE, BLACK BODY, & GREEN LETTERING	RECESSED	ATC	CEILING	120/277	LED	3.5	DUAL-LITE	SE-S-G-BN-E-I	NA	-

ELECTRICAL DEVICE MOUNTING HEIGHT SCHEDULE	
DEVICE	MOUNTING HEIGHT
LIGHT SWITCHES, WALL MOUNTED OCCUPANCY SENSORS	44" TO CENTERLINE OF BOX.
WALL MOUNTED EXIT SIGNS	90" CENTERLINE OF SIGN OR CENTERED IN WALL AREA BETWEEN TOP OF DOOR AND CEILING.
PENDANT MOUNTED FIXTURES	REFERENCE FIXTURE SCHEDULE
RECEPTACLES	16" TO BOTTOM OF BOX U.O.N.
RECEPTACLES - ABOVE COUNTER	42" TO BOTTOM OF BOX U.O.N.
RECEPTACLES - REFRIGERATORS/VENDING	54" TO BOTTOM OF BOX U.O.N.
SPECIAL OUTLETS OR RECEPTACLES	16" TO BOTTOM OF BOX OR AS NOTED ON DRAWINGS.
VOICE/DATA OUTLETS	16" TO BOTTOM OF BOX. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25" D
TELEPHONE OUTLETS - WALL TYPE	54" TO DAL CENTER (NON-ACCESSIBLE). 48" TO HIGHEST OPERABLE PART (ACCESSIBLE).
FIRE ALARM MANUAL PULL STATIONS	MINIMUM 42" ABOVE FINISHED FLOOR AND A MAXIMUM OF 48" ABOVE FINISHED FLOOR TO CENTER OF DEVICE. - NOT MORE THAN 5'-0" FROM EXIT
FIRE ALARM HORNS, BELLS, STROBES, ETC.	STROBES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE FINISH FLOOR OR 6" BELOW CEILING, WHICHEVER IS LOWER.
WALL MOUNTED REMOTE INDICATOR LIGHT FOR DUCT MOUNTED SMOKE DETECTORS	80" TO CENTERLINE OF DEVICE OR 6" BELOW CEILING, WHICHEVER IS LOWER.
INTERCOM STATION	48" TO CENTERLINE OF BOX.
THERMOSTATS	54" TO HIGHEST OPERABLE PART (SIDE ACCESS) 48" TO HIGHEST OPERABLE PART (FORWARD ACCESS).
TEMPERATURE/HUMIDITY SENSORS	60" TO CENTERLINE OF BOX.
STARTERS AND DISCONNECT SWITCHES	5'-0" TO CENTERLINE FROM FINISHED FLOOR.
PANELBOARDS	6'-6" TO TOP CIRCUIT BREAKER (MAXIMUM)
MOTION DETECTORS, CAMERAS, AND GLASS BREAK DETECTORS	COORDINATE WITH SECURITY SYSTEMS VENDOR/MANUFACTURER
TELEVISION AND CABLE TV OUTLETS	16" TO BOTTOM OF BOX. U.O.N.

- ALL DIMENSIONS ARE CONSIDERED FROM FINISHED FLOOR AND, UNLESS NOTED OTHERWISE, AND SHALL NOT VARY. ALL DIMENSIONS SHALL BE COORDINATED WITH ARCHITECTURAL DETAILS AND MAY BE ADJUSTED TO CONFORM WITH ARCHITECTURAL REQUIREMENTS AS LONG AS NO CODE RESTRICTION IS VIOLATED.
- OUTLETS INSTALLED LOWER THAN 15" AFF (FORWARD REACH) AND 9" AFF (SIDE REACH) ARE IN VIOLATION OF ADA.
- EXIT SIGNS SHALL NOT BE INSTALLED SO THAT IT BLOCKS FIRE ALARM VISUAL DEVICES.
- CONTRACTOR SHALL COORDINATE ALL THE ABOVE MOUNTING HEIGHTS WITH THOSE SHOWN ON THE ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.



- GENERAL FIRESTOPPING NOTES**
- CONTRACTOR SHALL FIRE STOP AND SEAL ALL EXISTING OPENINGS AND ALL NEW OPENINGS RESULTING FROM THE ELECTRICAL WORK. INDIVIDUAL ROOMS/AREAS SHALL BE SEALED AIR-TIGHT FOR BALANCING THE HVAC AIR DISTRIBUTION SYSTEM.
 - CLEAN SUBSTRATE SURFACES OF DIRT, DUST, GREASE, OIL, LOOSE MATERIAL, OR OTHER MATTER AFFECTING BOND OF FIRESTOPPING MATERIAL. REMOVE INCOMPATIBLE MATERIALS AFFECTING BOND. PROVIDE BACKING MATERIALS TO ARREST LIQUID MATERIAL LEAKAGE.
 - PROVIDE MATERIAL AT FIRE RATED CONSTRUCTION PERIMETERS/OPENINGS AND AT LOCATIONS CONTAINING PENETRATING SLEEVES, PIPING, DUCTWORK, CONDUIT AND OTHER ITEMS. APPLY PRIMER WHERE RECOMMENDED BY MANUFACTURER FOR TYPE OF FIRESTOPPING MATERIAL AND SUBSTRATE INVOLVED, AND AS REQUIRED FOR COMPLIANCE WITH REQUIRED FIRE RATINGS.
 - APPLY FIRESTOPPING MATERIAL IN SUFFICIENT THICKNESS TO ACHIEVE REQUIRED FIRE AND SMOKE RATING. COMPRESS FIBERED MATERIAL TO MAXIMUM 40 PERCENT OF ITS UNCOMPRESSED SIZE. PLACE FOAMED MATERIAL IN LAYERS TO ENSURE HOMOGENEOUS DENSITY, FILLING CAVITIES AND SPACES. PLACE SEALANT TO COMPLETELY SEAL JUNCTIONS WITH ADJACENT DISSIMILAR MATERIALS. PLACE INTUMESCENT COATING IN SUFFICIENT COATS TO ACHIEVE RATING REQUIRED.



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 DATE: AUGUST 13, 2021
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 DRAWING TITLE:

ELECTRICAL SCHEDULES & DETAILS

DRAWING NUMBER:
E2-01