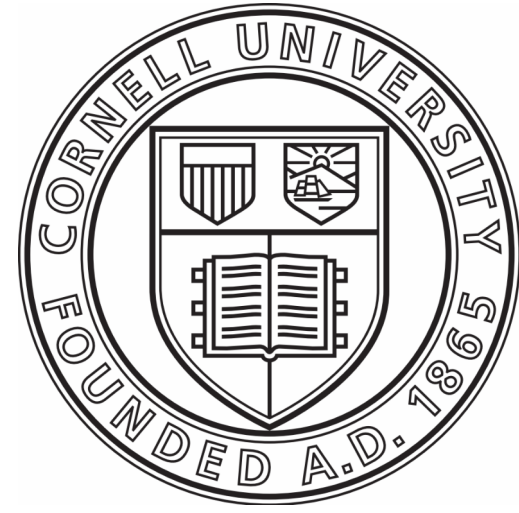
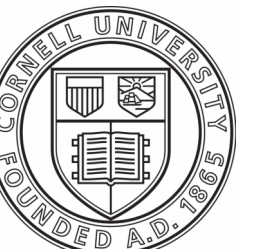




Cornell University

OLIN LIBRARY - B52 RARE PROCESSING SPACE RENOVATION



FACILITIES
ENGINEERING
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ARCHITECTURE, AND CIVIL,
ELECTRICAL, ENVIRONMENTAL,
AND MECHANICAL ENGINEERING

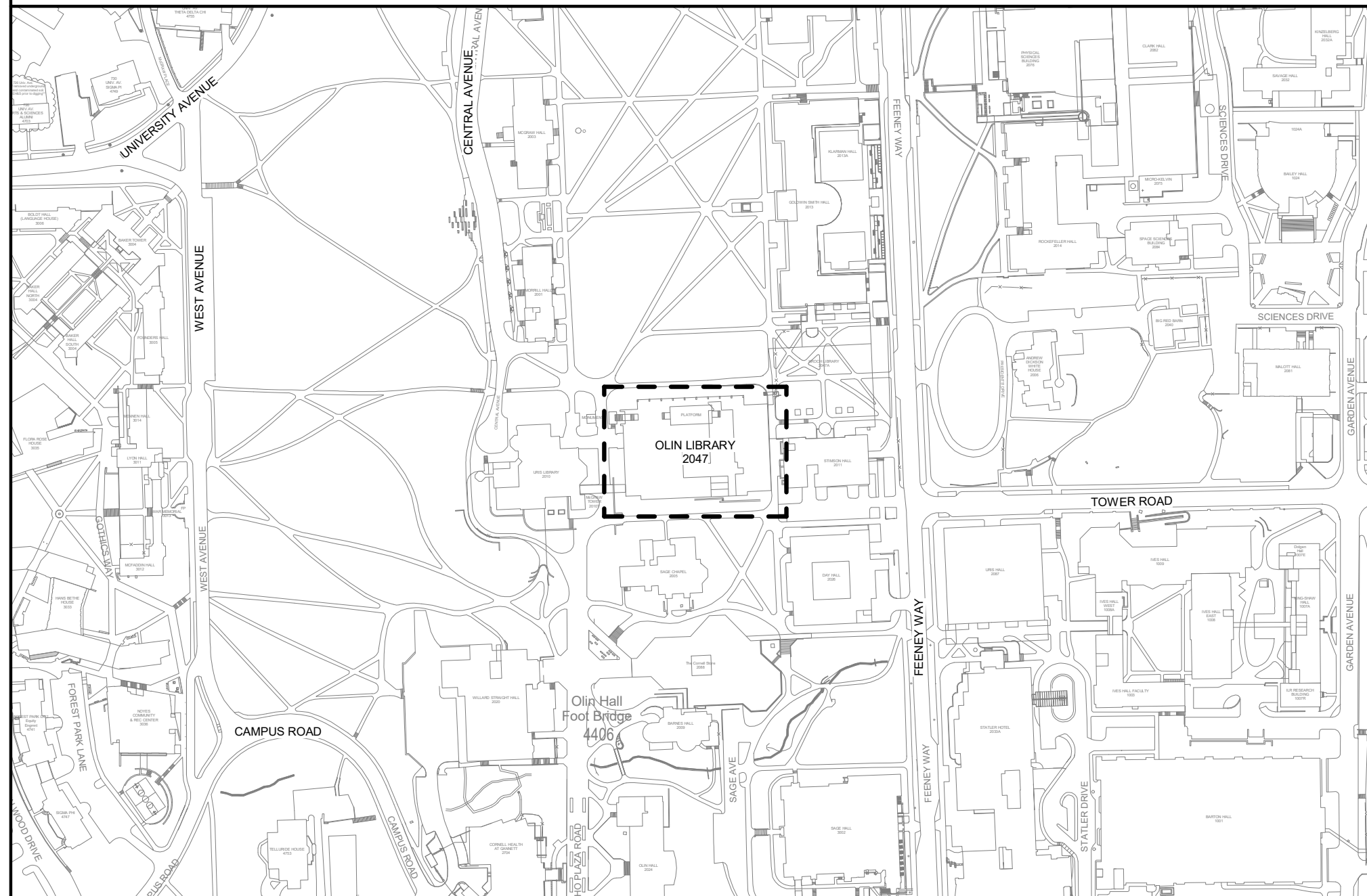
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ARCH/ CIVIL: *AF*
ELECTRICAL: *ATR*
MECHANICAL: *GF*



SITE LOCATION - OLIN LIBRARY



SITE PHOTO



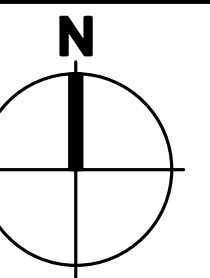
SHEET INDEX

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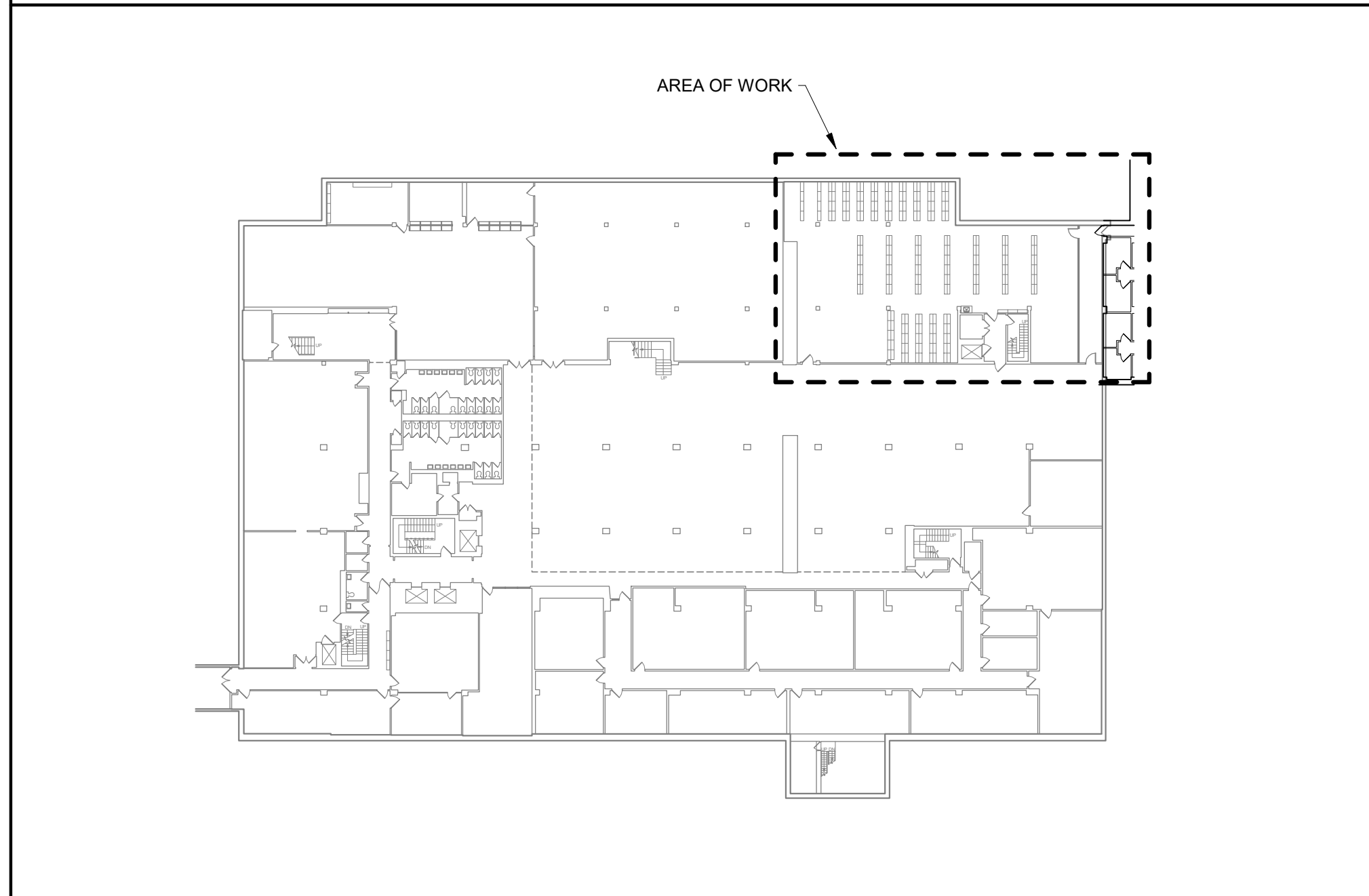
HAZARDOUS MATERIALS REMOVAL DRAWINGS PROVIDED BY LABELLA ASSOCIATES, DPC FOR OLIN LIBRARY - RARE BOOK PROCESSING RENOVATION, IS REFERENCED HERE AND EXPRESSLY INCORPORATED INTO THE CONTRACT DRAWINGS AND SPECIFICATIONS. THE TERMS AND CONDITIONS ASSOCIATED WITH LABELLA ASSOCIATES, DPC BLANKET AGREEMENT WITH CORNELL UNIVERSITY DATED MARCH 8TH 2021, AND EXPRESSLY INCLUDED IN ANY REFERENCES TO OLIN LIBRARY - RARE BOOK PROCESSING RENOVATION CONTRACT DRAWINGS AND SPECIFICATIONS.

REVISIONS

1	02/19/26	ISSUE FOR DD REVIEW
2	06/22/26	ISSUE FOR 95% CD REVIEW
3	09/06/26	ISSUE FOR CONSTRUCTION



KEY PLAN - BASEMENT LEVEL



PROJECT SCOPE

THE PURPOSE OF THIS PROJECT IS TO RENOVATE THE B52 SPACE INTO A RARE BOOK PROCESSING ROOM AND PROVIDE ACCESS TO THE KROCH LIBRARY BY CREATING A CORRIDOR THAT LINKS THE TWO LIBRARIES.
WORK IN THE SPACES INCLUDE:

ARCHITECTURAL

- REMOVAL OF EXISTING FLOOR TILE UNDER ASBESTOS ABATEMENT
- INSTALLATION OF NEW FLOORING
- REMOVAL AND REPLACEMENT OF DOORS AND HARDWARE
- CREATE METAL STUD & GYPSUM WALL BOARD CORRIDOR
- CREATE NEW DOOR OPENING IN EXISTING MASONRY WALL
- INSTALL NEW ADA COMPLIANT WORK SINK / CASEWORK
- REMOVE SHELVING AND REINSTALL AFTER NEW FINISHES ARE COMPLETED
- PAINTING.

MECHANICAL

- BALANCE OF HVAC SYSTEM TO FLOWS INDICATED
- PROVIDE PLUMBING SYSTEMS REQUIRED FOR NEW ADA SINK
- INSTALLATION OF HVAC DUCT BALANCING DAMPERS

ELECTRICAL

- REMOVAL OF EXISTING LIGHTING AND OVERHEAD POWER
- INSTALLATION OF NEW CEILING MOUNTED LIGHTING FIXTURES
- NEW ELECTRICAL POWER REELS
- MODIFICATION AND INSTALLATION OF FIRE ALARM SYSTEM

GENERAL SYMBOLS LEGEND

	EXTERIOR ELEVATION
	INTERIOR ELEVATION
	SECTION MARKER
	ENLARGED DETAIL
	CONSTRUCTION KEYED NOTE
	DEMOLITION KEYED NOTE
	DRAWING REVISION NOTE
	LINETYPE: EXISTING TO REMAIN
	LINETYPE: DEMOLITION / TO BE RELOCATED
	LINETYPE: TO BE PROVIDED / NEW

BUILDING CODE SUMMARY

APPLICABLE CODES
2025 NYS BUILDING CODE
2025 NYS EXISTING BUILDING CODE
2025 NYS FIRE CODE
2025 NYS PLUMBING CODE
2025 NYS MECHANICAL CODE
2025 NYS ENERGY CONSERVATION CODE
2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
2010 AMERICANS WITH DISABILITIES ACT (ADA)

PROJECT SUMMARY
THIS PROJECT INCLUDES THE RENOVATION OF APPROXIMATELY 4,470 SF OF SPACE

ALTERATION LEVEL 2
LEVEL 2 ALTERATIONS INCLUDE THE RECONFIGURATION OF SPACE, THE ADDITION OR ELIMINATION OF ANY DOOR OR WINDOW, THE RECONFIGURATION OF ANY SYSTEM, OR THE INSTALLATION OF ANY ADDITIONAL EQUIPMENT.

BUILDING LIMITATIONS
CONSTRUCTION CLASSIFICATION: IIA
CLASSIFICATION OF HAZARDS: n/a
HIGH-RISE BUILDING: NO
EXTINGUISHING REQUIREMENT: THE EXISTING BUILDING IS FULLY SPRINKLERED

OCCUPANCY OF AREA OF WORK
OCCUPANCY CLASSIFICATION: A-3

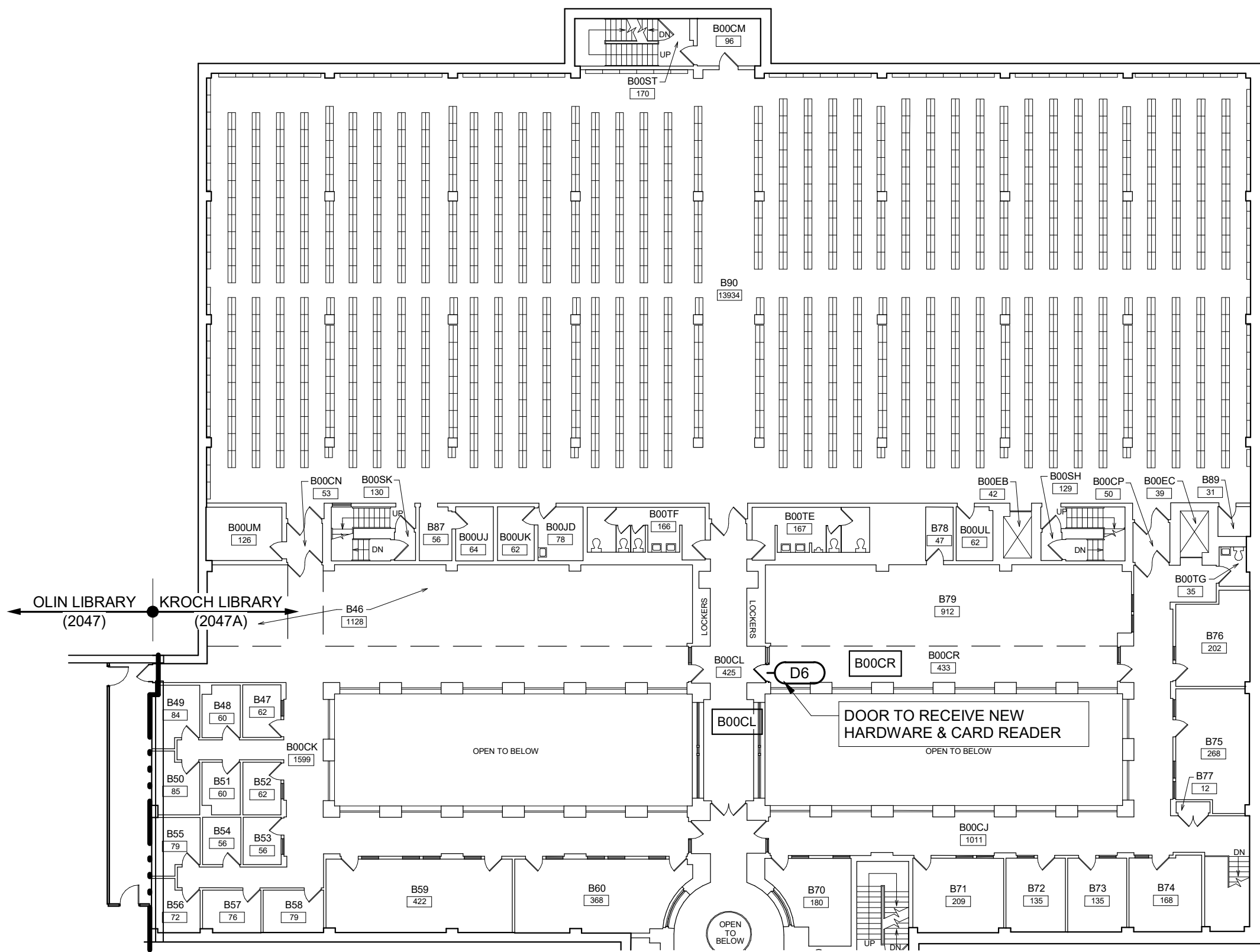
161 HO PLAZA
ITHACA, NEW YORK 14853

**OLIN LIBRARY
B52 RARE
PROCESSING
SPACE
RENOVATION**

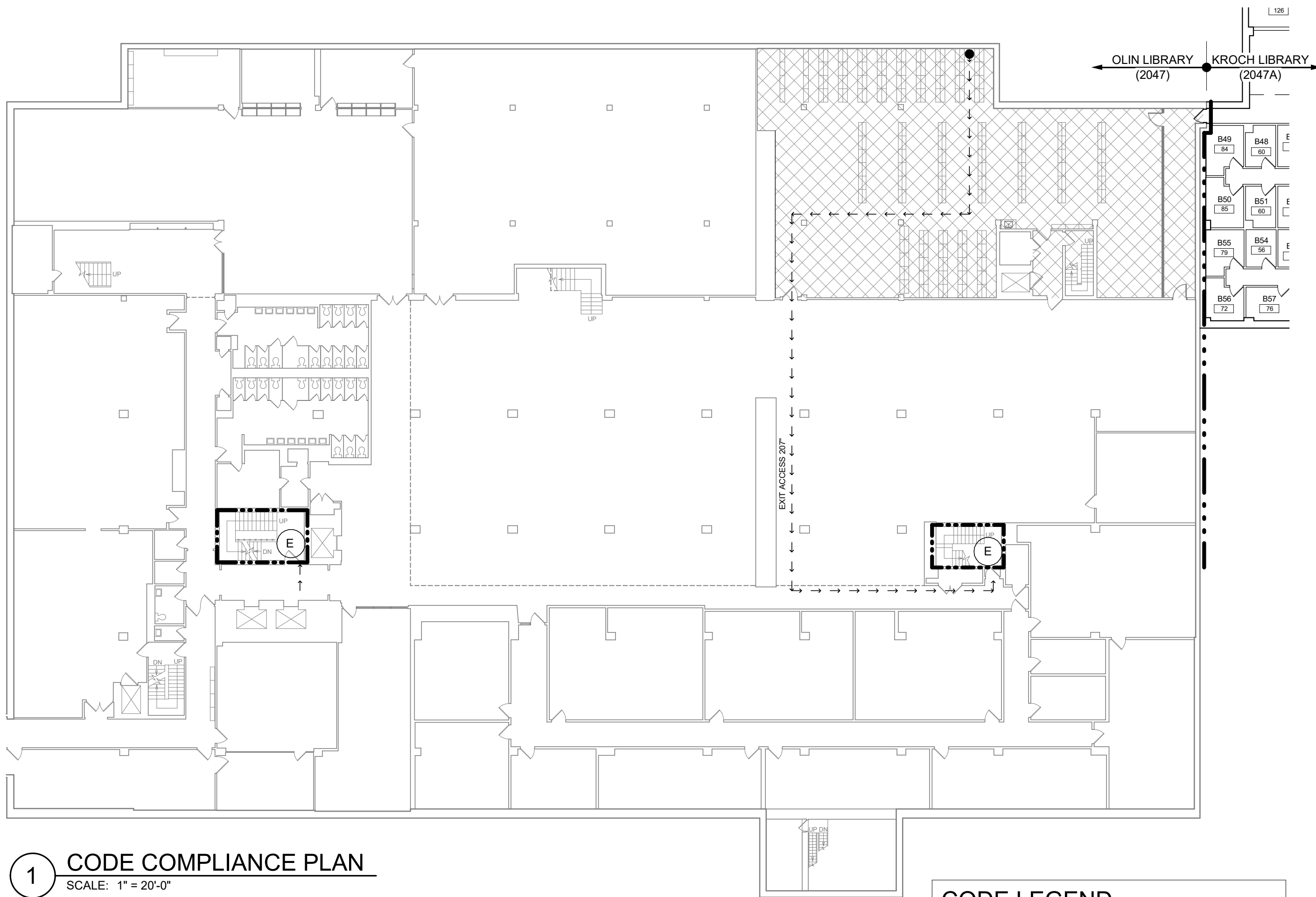
DATE: AUGUST 06, 2026
FACILITY: 2047
DESIGN: FE DESIGN
DRAWN: EWK

TITLE SHEET

T-001
17988015



2 KROCH LIBRARY BASEMENT PLAN
SCALE: 1" = 20'-0"



1 CODE COMPLIANCE PLAN
SCALE: 1" = 20'-0"

CODE LEGEND	
	LOCATION OF EXITS
	AREA OF WORK
	EXIT ACCESS TRAVEL DISTANCE
	MINIMUM 2-HOUR CONSTRUCTION
	MINIMUM 3-HOUR CONSTRUCTION

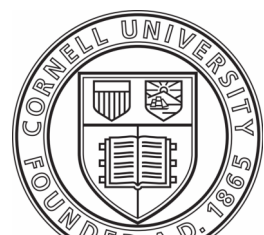
SYMBOLS		ABBREVIATIONS	
	DOOR/ WALL - DEMOLITION	A & @ ALT ALUM AVG AFF	AND AT ACOUSTICAL CEILING TILE ALUMINUM AVERAGE ABOVE FINISH FLOOR
	DOOR/ WALL - EXISTING	B BD BLDG BOD BSMT	BOARD BUILDING BOTTOM OF DECK BASEMENT
	DOOR/ WALL - NEW	CG CJ CLG CL CLR CMU COL CONC CONF CONT CORR OPT CRS CTRTP CT	CORNER GUARDS CONTROL JOINT CEILING CENTER LINE CLEAR CONCRETE MASONRY UNIT COLUMN CONCRETE CONFERENCE CONTINUOUS CORRIDOR CARPET COURSE(S) COUNTER TOP CERAMIC TILE
	ITEMS FOR DEMOLITION	D DF DIA DIM DN DO DWG	DEMOLITION DRINKING FOUNTAIN DIAMETER DIMENSION DOWN DOOR OPENING DRAWING
	WALL - BRICK	E EJ ELEC ELEV EPDM EQ EXTG EXT	EACH EXPANSION JOINT ELECTRIC ELEVATION/ ELEVATOR RUBBER ROOF MEMBRANE EQUAL EXISTING EXTERIOR
	WALL - CMU	FD FEC FFE FRP FR FT FTG	FLOOR DRAIN FIRE EXTINGUISHER CABINET FINISH FLOOR ELEVATION FIREPROOFING FIBER REINFORCED POLYESTER FOOT/FEET FOOTING
	WALL - CONCRETE	G GALV GC GEN GL GWB	GAGE GALVANIZED GENERAL CONTRACTOR GENERAL GLASS GYPSUM WALL BOARD
	WALL - METAL STUD/ GWB	H HC HT HM HR HVAC	HANDICAPPED HEIGHT HOLLOW METAL HOUR HEATING, VENTILATING & AC
	WALL - EXISTING	J JAN	JANITOR
	TAG - DOOR	L LAV LB# LGMF	LAVATORY POUND LIGHT GAGE METAL FRAMING
	TAG - WINDOW	M MFR MAT MAX MEZZ MIN MO MTL	MANUFACTURER MATERIAL MAXIMUM MEZZANINE MINIMUM MASONRY OPENING METAL
	TAG - WALL	NA NIC NR NTS	NOT APPLICABLE NOT IN CONTRACT NOT RATED NOT TO SCALE
	TAG - ROOM #	O OC OD OPNG OSB	ON CENTER OUTSIDE DIAMETER OPENING ORIENTER STRAND BOARD
	CENTER LINE	P +/- PNT PSF PSI PT	PLUS OR MINUS PAINT POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PRESSURE TREATED
	PHOTO REFERENCE	Q QTY	QUANTITY
	LEVEL MARKER	R RCP RD REF REQ REV RFT RO RPS RTU	RISER REFLECTED CEILING PLAN ROOF DRAIN REFRIGERATOR REQUIRED REVISION RUBBER FLOOR TILE ROUGH OPENING RIGID PROTECTION SHEET ROOF TOP UNIT
	COLUMN GRID MARKER	S SHTG SIM SF SS STL STD	SHEATHING SIMILAR SQUARE FOOT/ FEET STAINLESS STEEL STEEL STANDARD
	ELEVATION MARKER	T T&G TEL TEMP TOS TV TYP	TREAD TONGUE & GROOVE TELEPHONE TEMPERATURE TOP OF STEEL TELEVISION TYPICAL
	ELEVATION CHANGE ARROWS	U UEV UEF UNO	UNEVEN DOORS W/ VISION PANEL UNEVEN FLUSH DOOR UNLESS NOTED OTHERWISE
	BREAK LINE	V VCT VIF	VINYL COMPOSITION TILE VERIFY IN FIELD
	1-HOUR FIRE SEPARATION	W W/O WD	WITHOUT WOOD
	2-HOUR FIRE SEPARATION		
	NOT IN CONTRACT		
	MATCHLINE		

BUILDING CODE DATA: OLIN LIBRARY (2047) - ALL INFORMATION IS BASED ON THE PROPOSED WORK AREA			
CODES REFERENCED TO DESIGN: BUILDING CODE OF NY STATE 2025 (BCNYS) FIRE CODE OF NY STATE 2025 (FCNYS) EXISTING BUILDING CODE OF NY STATE 2025 (EBCNYS)			
USE AND OCCUPANCY CLASSIFICATIONS (CHAPTER 3): USE(S): "A-3" ASSEMBLY (LIBRARY) & "B" BUSINESS NO CHANGE IN USE OR OCCUPANCY FOR THIS PROJECT CLASSIFICATION OF WORK (EBCNYS CHAPTER 6):			
LEVEL 2 ALTERATION : Level 2 alterations include the addition or elimination of any door or window, the reconfiguration or extension of any system, or the installation of any additional equipment, and shall apply where the work area is equal to or less than 50 percent of the building area. HEIGHT AND AREA LIMITATIONS (BCNYS CHAPTER 5): COMPLIES BASED ON VARIANCE NYS 2009-0555 TYPE OF CONSTRUCTION (EBCNYS CHAPTER 5): IIA (EXISTING) FIRE PROTECTION SYSTEMS (EBCNYS CHAPTER 8): EXISTING COMPLIES WITH SECTION 803.2 AUTOMATIC SPRINKLER SYSTEMS: FIRE ALARM & DETECTION SYSTEMS (SECTION 803.4) MEANS OF EGRESS (BCNYS CHAPTER 10): PROPOSED OCCUPANCY LOAD (TABLE 1004.5) MAX. ALLOWABLE OCCUPANT LOAD			
NUMBER PER AREA ALLOWANCE (TABLE 1004.5)		41	
ROOM B52	USE:	S.F.	OCCUPANTS
	STACK	4,032	41
		TOTAL 41	
EGRESS WIDTH (SECTION 1005)		REQUIRED 0.3 PER OCCUPANT 0.2 PER OCCUPANT	PROVIDED EXISTING EXCEEDS EXISTING EXCEEDS
EMERGENCY LIGHTING (1008.1)		Y	Y
EXIT SIGNS (1013.1)		N	N
TRAVEL DISTANCE (1017.2)		< 300'	< 207' (SEE EGRESS PLAN)
CORRIDOR FIRE RATED (TABLE 1020.1)		N	N
DEAD END (1020.5)		< 50'-0"	42' - 0"
EXITS PER STORY (1006.3.3)		2	6
TRAVEL DISTANCE FOR B-OCCUPANCY IN A NON-SPRINKLERED SPACE		< 100'	N/A

BUILDING CODE DATA

GENERAL NOTES

- DESIGN, CONSTRUCTION AND SAFETY SHALL CONFORM TO ALL LOCAL, STATE AND OWNER SPECIFIC CODES, INCLUDING (BUT NOT LIMITED TO) THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE, LATEST REVISION, THE NFPA 101 LIFE SAFETY CODE, LATEST REVISION, ANSI A117.1 - LATEST REVISION, OSHA, AND ANY OTHER CODES GOVERNED BY THE JURISDICTION IN WHICH THIS PROJECT IS BEING CONSTRUCTED.
- THIS CONTRACT REQUIRES COMPLETE, FINISHED WORKABLE PROJECT OF THE AREAS INDICATED BY THE CONTRACT DOCUMENTS, AND SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY TO COMPLETE, REGARDLESS OF WHETHER OR NOT ALL WORK OR EACH ITEM IS SPECIFICALLY INDICATED ON ANY OTHER PORTION OF THE DRAWINGS AND / OR NOTES.
- WHERE MATERIALS REFERENCED ON DRAWINGS, OR NECESSARY TO COMPLETE THE WORK OF THIS CONTRACT ARE NOT SPECIFIED HEREIN, PROVIDE BEST QUALITY MATERIALS. WHERE MATERIALS ARE INTENDED TO MATCH EXISTING, PROVIDE CLOSEST POSSIBLE MATCH, SUBJECT TO OWNER'S APPROVAL. ALL ITEMS AND WORK ON DRAWINGS ARE NEW, UNLESS INDICATED EXISTING. ALL WORK WHICH HAS BEEN DAMAGED SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER, WHERE ITEMS CAN NOT BE REPAIRED TO A "NEW CONDITION" OR WHERE THE STRUCTURAL INTEGRITY HAS BEEN AFFECTED, ITEMS SHALL BE REPLACED AT NO COST TO THE OWNER.
- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL SITE, FIELD AND BUILDING CONDITIONS PRIOR TO SUBMITTING BIDS AND COMMENCING WORK. IF THERE ARE ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS, NOTIFY THE PROJECT MANAGER, WHO WILL REQUEST CLARIFICATION FROM THE ARCHITECT/ENGINEER AND PROVIDE CLARIFICATION IN WRITING.
- WHERE EXISTING CONSTRUCTION OR ITEMS HAVE BEEN INFILLED, REMOVED AND / OR DISTURBED FOR INSTALLATION OF NEW WORK, CAUSING THE EXPOSURE OF UNFINISHED AND/OR DAMAGED SURFACES RESULTING SURFACES AND INFILLED SURFACES SHALL BE RECONSTRUCTED WITH MATERIALS TO MATCH FINISHED AREAS. ALL ABANDONED OPENINGS (i.e. DUCT/PIPE REMOVALS, ETC.) AT WALLS, ROOF OR FLOOR TO BE INFILLED SOLID.
- WORK IS REQUIRED IN VARIOUS PORTIONS OF THE FACILITY TO EXECUTE WORK OF OTHER TRADES (i.e. ELECTRICAL, MECHANICAL). ALTHOUGH NOT NECESSARILY SHOWN ON DRAWINGS, WORK IS REQUIRED IN THESE AREAS CONSISTING OF REMOVAL / REPLACEMENT OF CEILINGS, WALLS, FINISHES, PAVEMENT AND OTHER CONSTRUCTION AS NECESSARY TO PERFORM WORK AND RESTORE THESE SPACES OR AREAS TO ORIGINAL CONDITION.
- GENERAL CONTRACTOR IS TO COORDINATE WORK OF ALL TRADES. SCHEDULE WORK PROGRESS THROUGHOUT THE ENTIRE PROJECT TO PREVENT CONFLICTS AND INTERFERENCES. OBTAIN ALL NECESSARY INFORMATION SUCH AS SIZES, LOCATIONS, TEMPLATES, LAYOUT, DIMENSIONS AND ALL OTHER INFORMATION NECESSARY FOR A PROPER AND WELL COORDINATED INSTALLATION. PRIOR TO INSTALLATION OF ITEMS, VERIFY AND CONFIRM WITH EACH CONTRACTOR EXACT LOCATION OF ALL ITEMS.
- ALL PENETRATIONS (EXISTING OR NEW) THROUGH FLOORS AND FULL HEIGHT WALLS - IN AREA OF WORK TO BE FIRE STOPPED. ALL GAPS AND JOINTS AT RATED FLOORS, ROOFS AND WALLS TO BE FIRE & SMOKE STOPPED. GAPS AND JOINTS INCLUDE (BUT ARE NOT LIMITED TO) TOP OF WALL TO FLOOR OR ROOF DECK, WALL TO BEAMS, AND CONTROL OR EXPANSION JOINTS. FIRE STOPPING INCLUDES BOTH FORM OR PACKING MATERIAL AND THE FILL, VOID OR CAVITY MATERIAL. PROVIDE AND INSTALL LABELING REQUIRED BY CODE. LABELS SHALL INCLUDE PENETRATION TYPE WITH UL LISTING USED, MATERIAL USED, DATE INSTALL AND NAME OF INSTALLER.
- JOBSITE WILL BE CLEANED DAILY AND DEBRIS REMOVED TO CONTAINERS OR TO VEHICLE WHICH WILL REMOVE DEBRIS FROM CAMPUS. CONTAINERS WILL BE REMOVED AS SOON AS FULL OR WHEN THE PROJECT HAS PROGRESSED TO A POINT THAT A CONTAINER IS NO LONGER REQUIRED.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL AREAS USED TO BRING SUPPLIES AND EQUIPMENT INTO THE PROJECT AREA. ANY DAMAGE TO AREAS OUTSIDE THE PROJECT AREA INCLUDING BUT NOT LIMITED TO THE LOBBY AND CORRIDOR SHALL BE REPAIRED AT NO COST TO THE OWNER.



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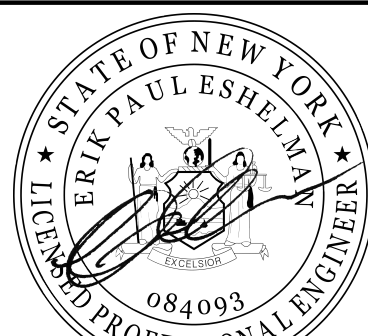
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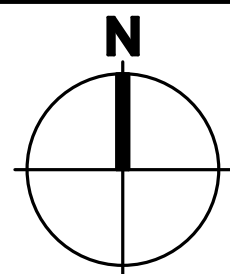
ELECTRICAL:

MECHANICAL:



REVISIONS

1	02/19/26	ISSUE FOR CD REVIEW
2	06/22/26	ISSUE FOR 95% CD REVIEW
3	09/06/26	ISSUE FOR CONSTRUCTION



0' 10' 20' 40'
SCALE: 1" = 20'-0"

161 HO PLAZA
ITHACA, NEW YORK 14853

OLIN LIBRARY
B52 RARE
PROCESSING
SPACE
RENOVATION

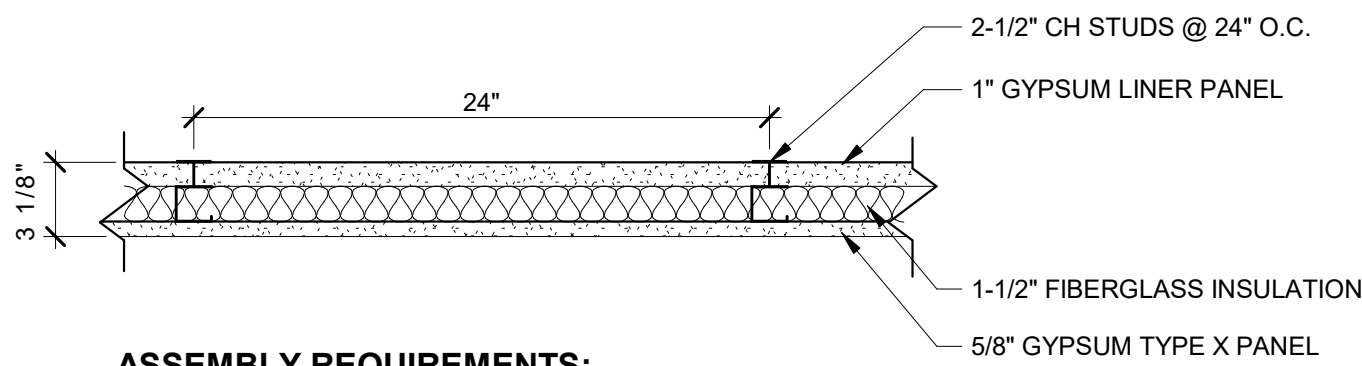
DATE: AUGUST 06, 2026
FACILITY: 2047
DESIGN: R, HERKO
DRAWN: RLH

GENERAL NOTES
AND CODE
COMPLIANCE
PLAN

A-001
17988015

DESIGN NO: UL U415 UL System A

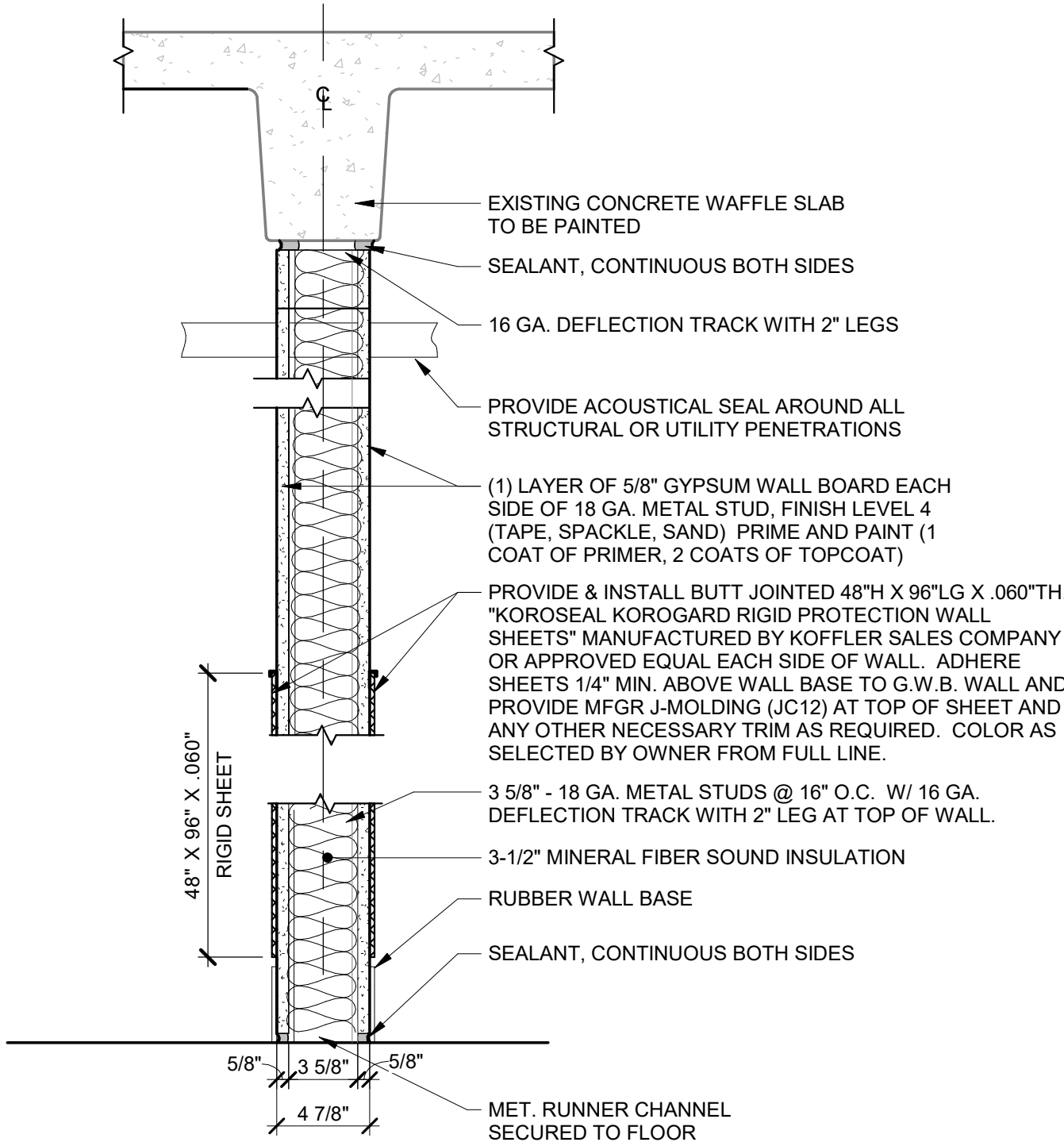
FIRE RATING: 1 HOUR
STC RATING: 45
SOUND TEST: USG-170422
SYSTEM THICKNESS: 3-1/8" (79 MM)
LOCATION: CORE-SHAFT
FRAMING TYPE: STEEL STUD (NONLOAD-BEARING)



ASSEMBLY REQUIREMENTS:

GYPSUM PANELS: ONE LAYER 1" [25.4 MM] GYPSUM LINER PANELS (UL TYPE SLX)
STEEL STUDS: 2-1/2" CH STUDS, 20 GA. (0.033"), 24" O.C.
INSULATION: 1-1/2" FIBERGLASS INSULATION
GYPSUM PANELS: ONE LAYER 5/8" GYPSUM PANEL (UL TYPE SCX)

1. GENERAL WALL NOTES:
2. STUD SIZES AND INSULATION THICKNESS ARE MINIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
3. STUD AND FASTENER SPACINGS ARE MAXIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
4. PANEL ORIENTATION SHALL BE AS SPECIFIED IN THE PUBLISHED DESIGN.
5. FIRE-RATINGS ARE FROM BOTH SIDES UNLESS OTHERWISE STATED.
6. FIRE-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, INCREASE STUD MATERIAL THICKNESS, DECREASE STUD SPACING, DECREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH.



SW1

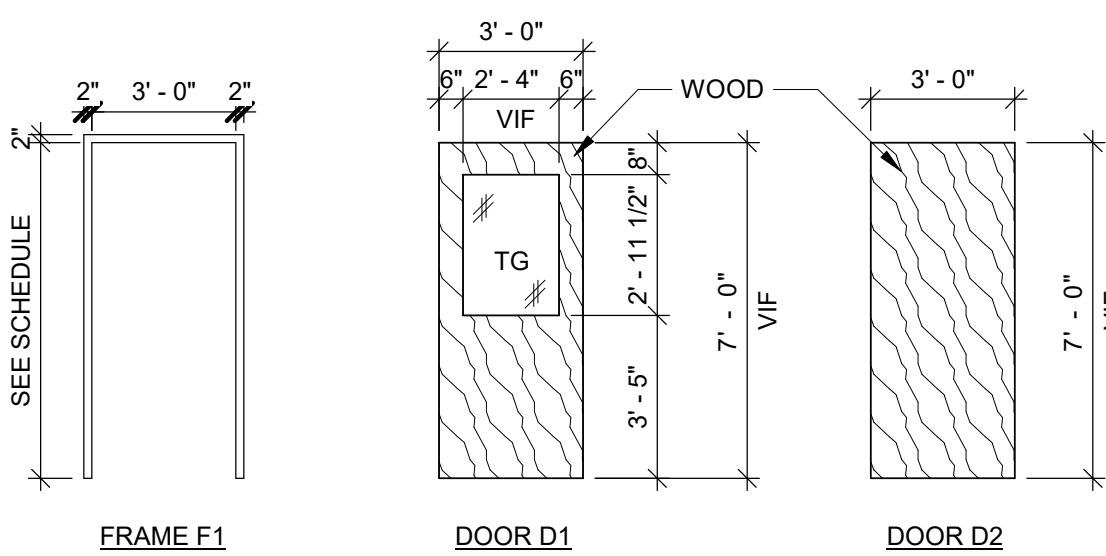
PARTITION TYPES

NOT TO SCALE

DOOR / HARDWARE SCHEDULE

DOOR	FROM ROOM NUMBER	TO ROOM NUMBER	DOOR		DOOR		FRAME		FRAME		HARDWARE		DETAILS		
			SIZE	PANEL SIZE	GLAZING TYPE	ELEVATION TYPE	MATERIAL	FINISH	ELEVATION TYPE	MATERIAL	FINISH	GLAZING TYPE	ELEVATION TYPE	MATERIAL	FINISH
D1	B48	B00CG	3' - 4"	7' - 0"	1 3/4"	D1	WD / GL	STAIN	F1	HM	PAINT	TG	Hinges McKinney TA2714 4.5 x 4.5 x QC-12 x Finish	J1	
D2	B52	B00CG	3' - 4"	7' - 0"	1 3/4"	D1	WD / GL	STAIN	F1	HM	PAINT	TG	Hinges McKinney TA2714 4.5 x 4.5 x NRP x Finish	J2	1
D3	B48	B52	3' - 4"	7' - 0"	1 3/4"	D1	WD / GL	STAIN	EXTG	EXTG HM	PAINT	TG	Hinges McKinney TA2714 4.5 x 4.5 x NRP x Finish	EXTG	1
D4	B52	B00CE	3' - 4"	7' - 0"	1 3/4"	D1	WD / GL	STAIN	EXTG	EXTG HM	PAINT	TG	Hinges McKinney TA2714 4.5 x 4.5 x NRP x Finish	EXTG	1
D5	B00CE	B48	3' - 2"	7' - 0"	1 3/4"	D2	WD	STAIN	EXTG	EXTG HM	PAINT	TG	Lockset Sargent 8215 x LNL x Finish	EXTG	1
D6	B00CL	B00CL	3' - 0"	7' - 0"	1 3/4"	EXTG	EXTG	EXTG	EXTG	EXTG HM	EXTG	EXTG	1	EXTG	1, 2

REMARKS:
1) DOOR TO BE PROVIDED WITH CARD ACCESS CONTROLS.
2) DOOR IS LOCATED IN KROCH LIBRARY - REFER TO DRAWING 2/A-001



WOOD DOORS AND METAL FRAMES:
BASIS OF DESIGN FOR STILE AND RAIL DOORS
• WOOD DOOR TO MATCH EXISTING
• HOLLOW METAL FRAME

GLAZING LEGEND:
TG: 1/4" FULLY TEMPERED FLOAT GLASS
EXT: EXISTING

DOOR AND FRAME TYPES & HARDWARE SET

NOT TO SCALE

ROOM FINISH SCHEDULE

NUMBER	NAME	FLOOR		BASE	WALLS								CEILING		KEYED NOTES
		MAT	FIN		NORTH		SOUTH		EAST		WEST		MAT	FIN	
					MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN			
B00CE	CORRIDOR	CS	SMOOTH	VCB	EXT'G CMU	PAINT	EXT'G CONC	PAINT	EXT'G CMU	PAINT	EXT'G GWB	PAINT	EXT'G CONC	PAINT	NOTE 1 & 5
B00CG	CORRIDOR	CS	SMOOTH	VCB	EXT'G CMU	PAINT	GWB		EXT'G GWB	PAINT	EXT'G CMU	PAINT	EXT'G CONC	PAINT	NOTE 1 & 5
B00CL	Room														
B00CR	Room														
B00EE	BOOK ELEVATOR	EXT'G	---	EXT'G	EXT'G	---	EXT'G	---	EXT'G	---	EXT'G	---	---	---	
B00SD	COMMUNICATION STAIRS	CS	SMOOTH	VCB	EXT'G CMU	---	EXT'G CMU	---	EXT'G CONC	---	EXT'G GWB	---	---	---	NOTE 3 & 5
B00UA	ELEVATOR MACHINE ROOM	EXT'G	---	EXT'G	EXT'G CMU	---	EXT'G CONC	---	EXT'G CMU	---	EXT'G CONC	---	---	---	
B48	READING RM	EXT'G	EXT'G CPT	VCB	EXT'G CMU / CONC.	PAINT	EXT'G CMU	---	EXT'G CMU	---	EXT'G CMU	---	EXT'G	---	NOTE 2 & 4
B52	BOOK PROCESSING	CS	SMOOTH	VCB	EXT'G CMU	PAINT	EXT'G CMU	PAINT	GWB	PAINT	EXT'G CMU / GWB	PAINT	EXT'G CONC	PAINT	NOTE 1, 5, & 6

ROOM FINISH SCHEDULE NOTES:

1. ADD ALTERNATE #1: "SCRAPE, PRIME, PAINT (2 COATS) ALL EXISTING WALLS AND CEILING (INCLUDING ALL NEW & EXISTING DUCTS, ELECTRICAL CONDUITS AND PIPING) IN CONSTRUCTION AREA DEFINED ON FINISH SCHEDULE. NEW WALLS REFERENCED IN RENOVATION NOTE #6 (DRAWING A-102) AND EXISTING WALLS REFERENCED IN RENOVATION NOTE #8 (DRAWING A-102) ARE TO BE CONSIDERED BASE BID.
2. ADD ALTERNATE #2: "SCRAPE, PRIME, PAINT (2 COATS) EXISTING NORTH WALL IN AREA OF ROOM B48".
3. LOWER LANDING ONLY.
4. NORTH WALL ONLY.
5. ADD ALTERNATE #3: "PROVIDE AND INSTALL NEW RUBBER FLOORING IN-LIEU OF INSTALLING NEW CS "CONCRETE SEALER" FLOORING IN AREA."
6. WEST WALL TO BE ACCENT WALL.

CS: CONCRETE SEALER
H&C CLEARPROTECT HIGH PERFORMANCE INDUSTRIAL CLEAR COAT
COLOR: CLEAR

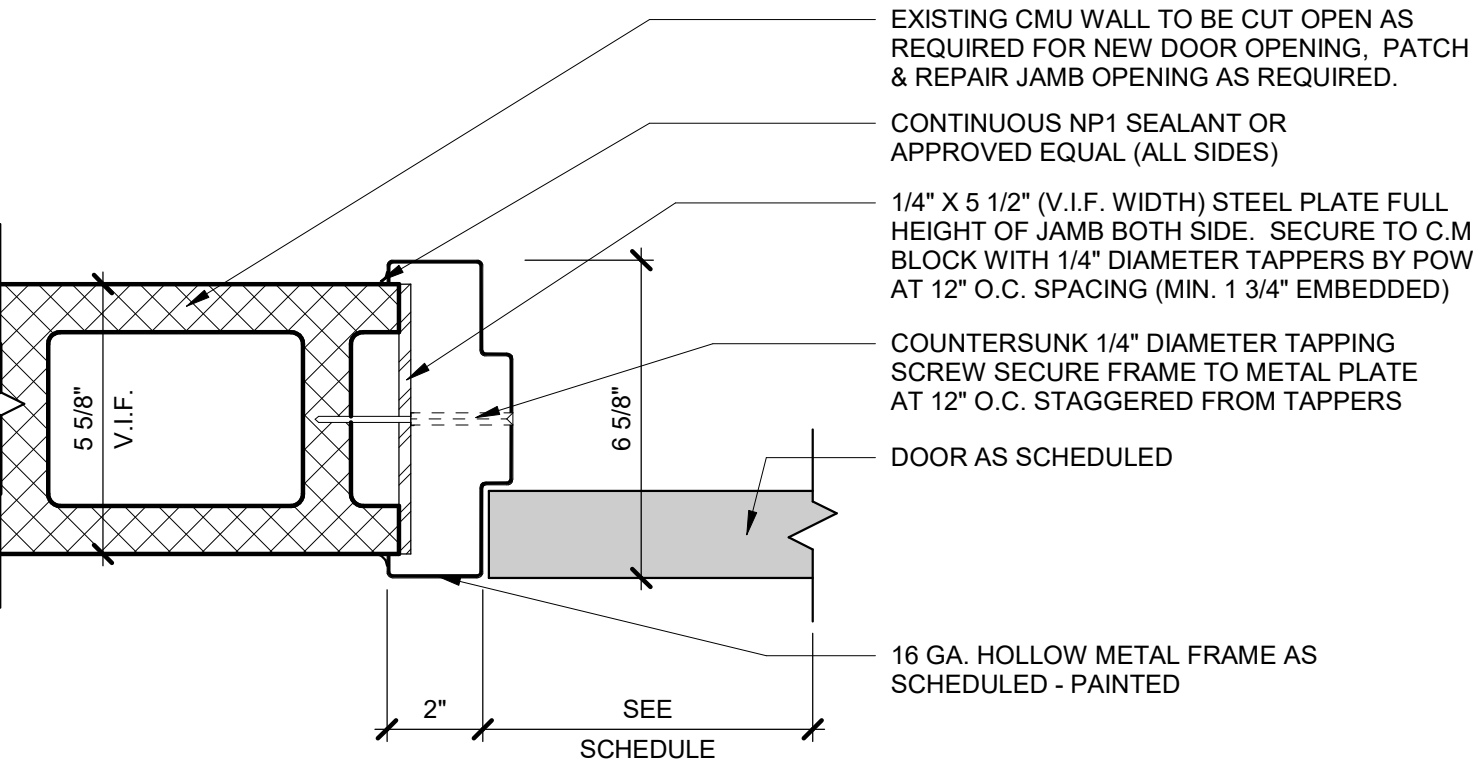
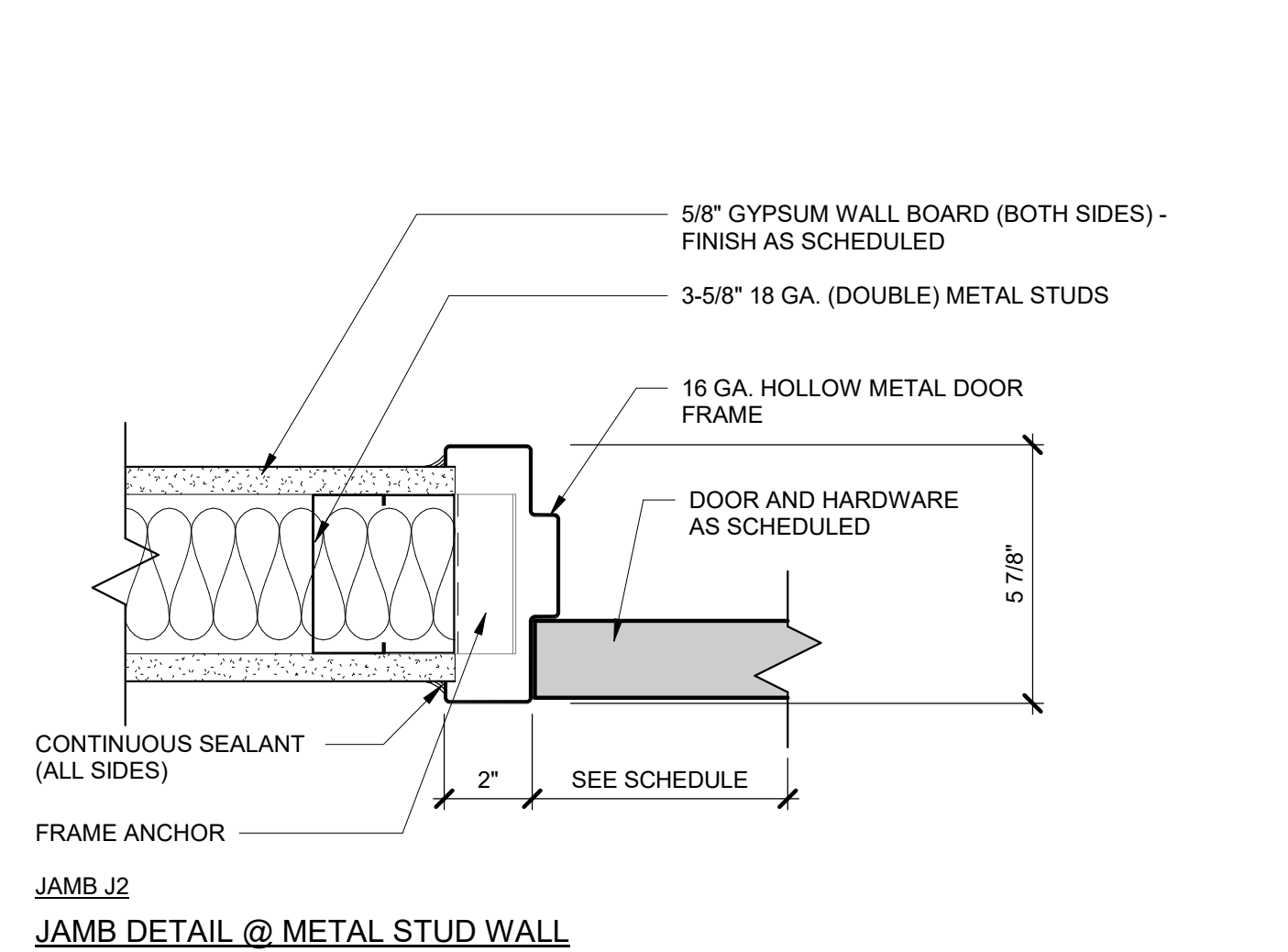
RFT: RUBBER FLOORING TILE
MANUFACTURED: NORAPLAN
STYLE: NORAPLAN SENTICA
SIZE: 24" X 24"
THICKNESS: 3.0MM
SURFACE: SMOOTH
COLOR: SURF 6529

VCB: RUBBER BASE:
STYLE: NORA WALL BASE
HEIGHT: 4"
THICKNESS: 3.175 MM
COLOR: BLACK 6201

WALL PAINT:
COLOR: "ATRIUM WHITE"
ACCENT WALL COLOR TO BE SELECTED BY OWNER

ARCHITECTURAL SUBMITTAL REGISTRY

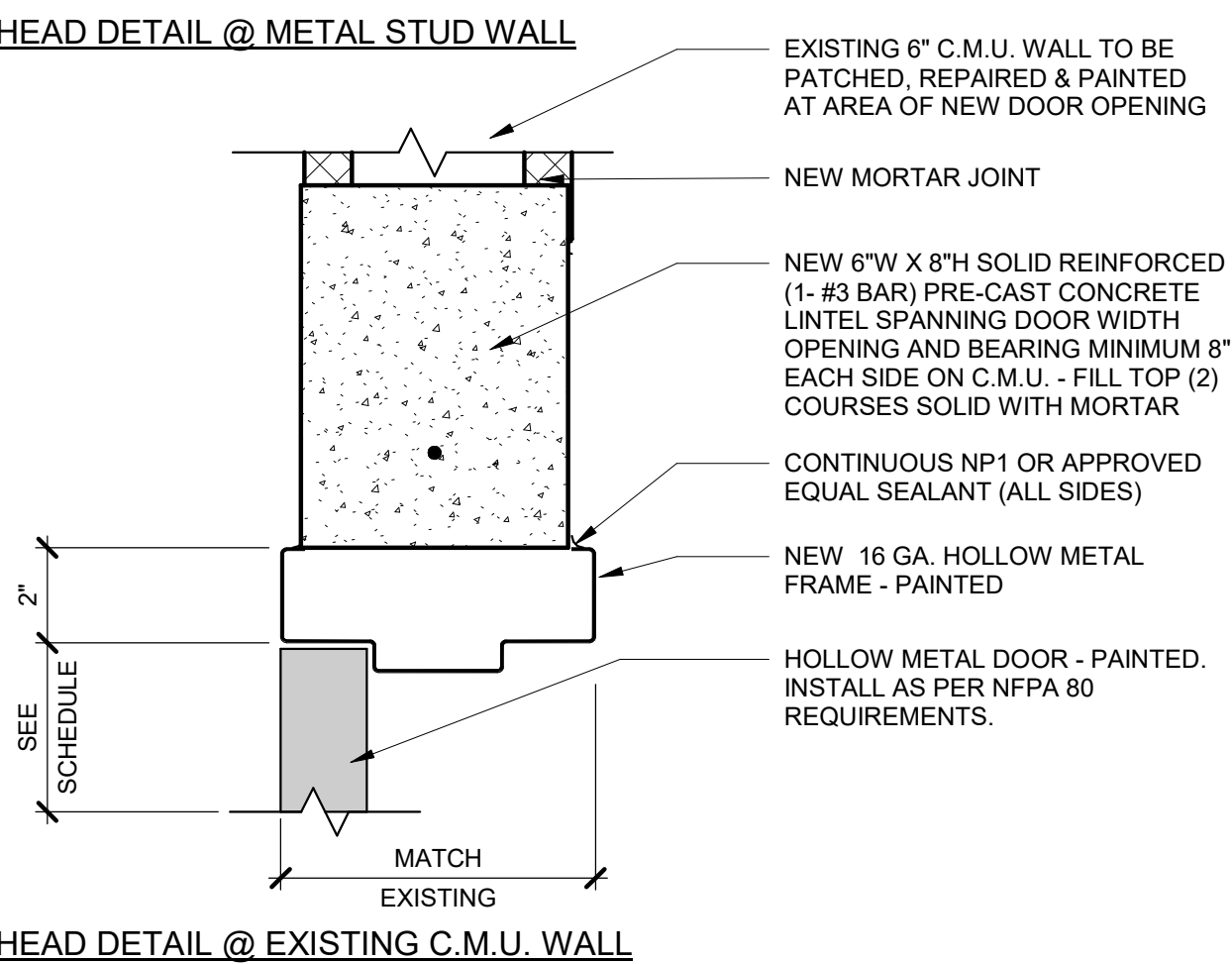
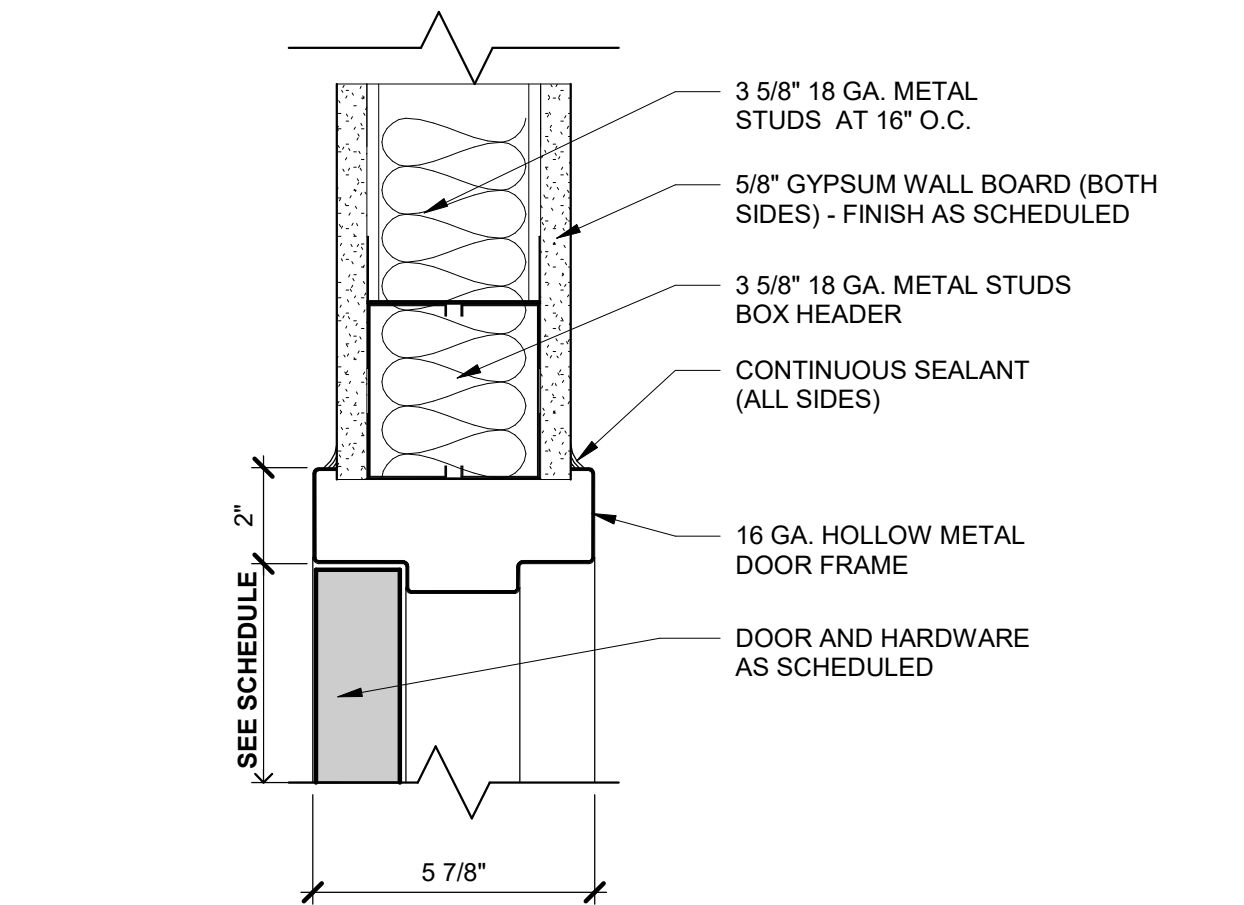
SECTION	DESCRIPTION	MATERIAL	SHOP DRAWINGS	COORD. DRAWINGS	AS-BUILT DRAWINGS	SCHEDULES	PRODUCT DATA	WIRING DIAGRAMS	CALCULATIONS	SAMPLES	STANDARDS	QUALIFICATIONS	CERTIFICATIONS	MFR INSTRUCTIONS	INSPECTION TEST REPORTS	OPS & MAINT. DATA	WARRANTIES & BONDS
078413	PENETRATION FIRESTOPPING	THROUGH-PENETRATION FIRESTOP SYSTEMS				X	X										
079200	JOINT PROTECTION	JOINT SEALANTS				X											
081000	OPENINGS	DOORS AND FRAMES	X		X												
081113	HOLLOW METAL WORK	DOOR AND STOREFRONT FRAMING	X		X	X								X			
087100	DOOR HARDWARE	HARDWARE MATERIALS	X		X	X											
088000	GLAZING & GLAZING TREATMENT	GLAZING MATERIALS	X		X	X							X	X	X		
092116	PLASTER AND GYPSUM BOARD	GYPSUM BOARD ASSEMBLIES				X											
092116.23	PLASTER AND GYPSUM BOARD	GYPSUM BOARD SHAFT WALL ASSEMBLIES				X											
096513	RESILIENT BASE AND ACCESSORIES	RESILIENT BASE				X				X							
096513	--	ADHESIVES				X											
096519	RESILIENT TILE FLOORING	LUXURY VINYL TILE	X		X				X								
096519	--	LEVELING AND PATCHING COMPOUNDS				X							X				
096519	--	ADHESIVES				X											
099123	INTERIOR PAINTING	PAINT				X			X								
123653	COUNTERTOPS	LABORATORY COUNTERTOPS	X	X	X												



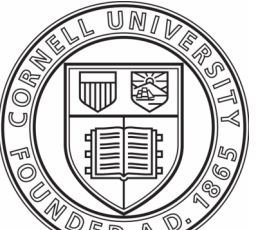
JAMB J1
JAMB DETAIL @ EXISTING C.M.U. WALL

TYPICAL JAMB DETAILS

SCALE: 3" = 1'-0"



HEAD DETAIL @ EXISTING C.M.U. WALL



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3	09/06/26	ISSUE FOR CONSTRUCTION

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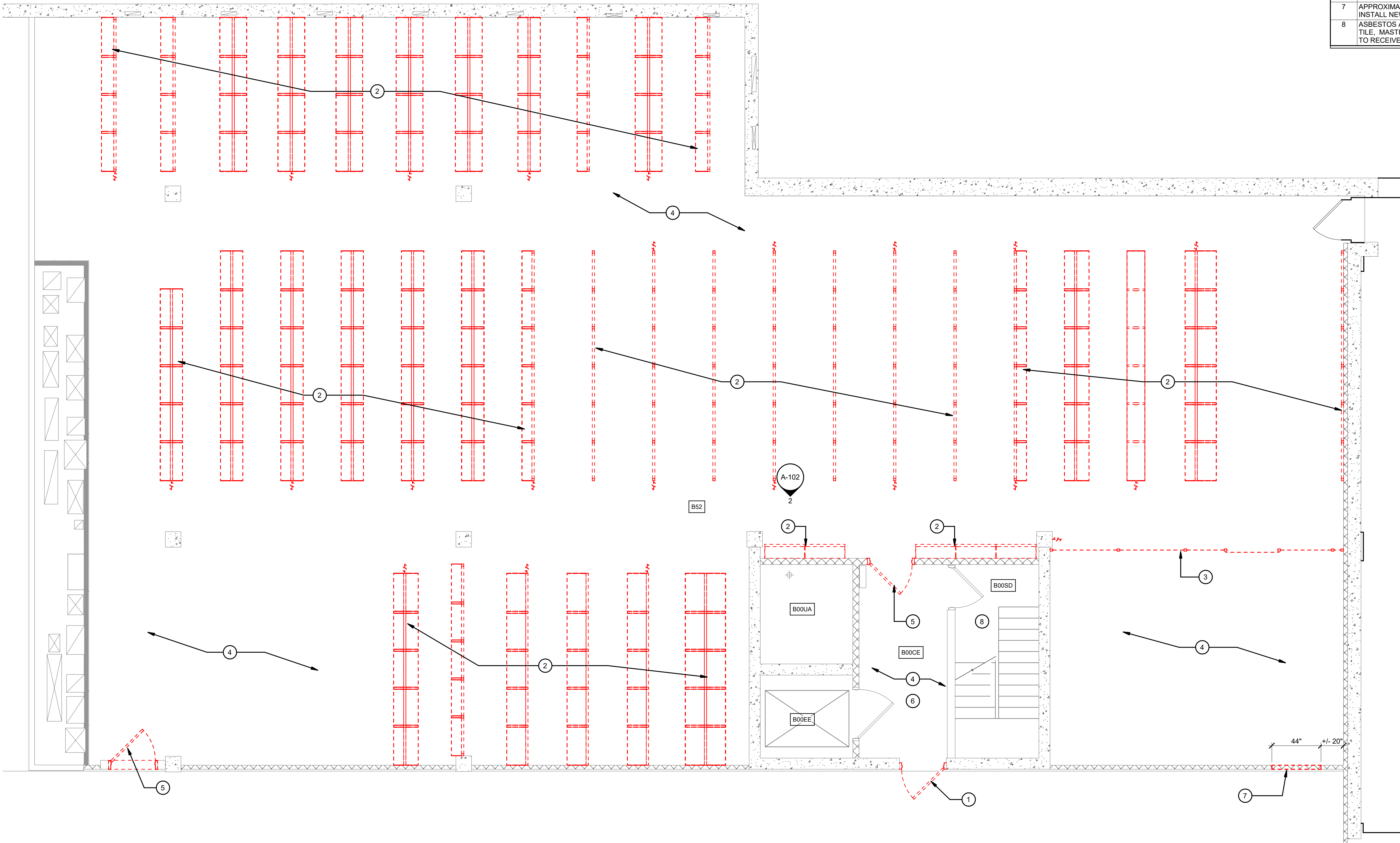
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DATE:	AUGUST 06, 2026
FACILITY:	2047
DESIGN:	R. HERKO
DRAWN:	RLH

SCHEDULE,
DETAILS AND
FLOOR TILE PLAN

A-002

17988015



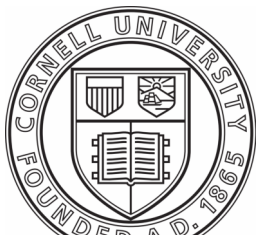
1 BASEMENT DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

A-101 GENERAL DEMOLITION NOTES

- 1.0 CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO THE START OF DEMOLITION.
- 2.0 DIMENSIONS SHOWN TO PROVIDE A NEW OPENING IN AN EXISTING WALL SHALL BE COORDINATED FOR SIZE AND LOCATION WITH THE NEW WORK PLAN.
- 3.0 CONTRACTOR SHALL COORDINATE REMOVALS WITH ALL ASSOCIATED CONTRACTORS PRIOR TO DEMOLITION.
- 4.0 CONTRACTOR IS RESPONSIBLE TO REPAIR ANY DAMAGED SUSTAINED TO ADJACENT EXISTING CONDITIONS DURING THE REMOVAL OF EXISTING BUILDING ELEMENTS.

A-101 KEYED DEMOLITION NOTES

- | # | DESCRIPTION |
|---|---|
| 1 | EXISTING DOOR TO BE REMOVED AND PROVIDED WITH NEW DOOR AND HARDWARE REFER TO DOOR SCHEDULE. |
| 2 | REMOVE AND SALVAGE EXISTING BOOK SHELVING POSTS AND SHELVING UNITS EXCEPT FOR POST "FEET" ATTACHED TO EXISTING FLOOR. POST "FEET" & FASTENERS TO BE REMOVED BY ASBESTOS ABATEMENT CONTRACTOR (REFER TO ABATEMENT DRAWINGS FOR MORE INFORMATION). SCREWS USED TO SECURE POSTS TO FLOOR ARE TO BE DISPOSED OF BY ASBESTOS ABATEMENT CONTRACTOR. STORE MATERIAL IN LOCATION DIRECTED BY OWNER. |
| 3 | REMOVE AND SALVAGE EXISTING METAL CAGE WALL PANELS AND DOOR. ANY FASTENERS SECURED TO FLOOR ARE TO BE REMOVED BY ASBESTOS ABATEMENT CONTRACTOR. SCREWS SECURED TO FLOOR ARE TO BE DISPOSED OF BY ASBESTOS ABATEMENT CONTRACTOR. DELIVER SALVAGED CAGE TO CORNELL UNIVERSITY RS STORAGE FACILITY AT 251 SOLIDAGO ROAD, ITHACA. |
| 4 | ASBESTOS ABATEMENT CONTRACTOR TO REMOVE EXISTING VINYL ASBESTOS FLOOR TILE, WALL BASE, AND MASTIC. REFER TO ASBESTOS ABATEMENT DRAWINGS. |
| 5 | EXISTING DOOR TO BE REMOVED AND FRAME PREPPED TO RECEIVE NEW DOOR WITH CARD ACCESS. |
| 6 | GENERAL CONTRACTOR TO REMOVE SIGNAGE IN THIS AREA. |
| 7 | APPROXIMATE AREA OF EXISTING C.M.U. WALL TO BE SAWCUT AND REMOVED TO INSTALL NEW H.M. DOOR FRAME AND PRE-CAST CONCRETE LINTEL. |
| 8 | ASBESTOS ABATEMENT CONTRACTOR TO REMOVE EXISTING ASBESTOS FLOOR TILE, MASTIC AND WALL BASE AT BOTTOM OF STAIRS AREA AND PREP CONCRETE TO RECEIVE NEW FLOOR TILE & BASE. |



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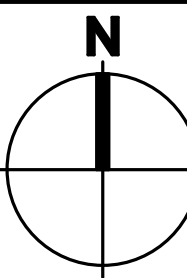
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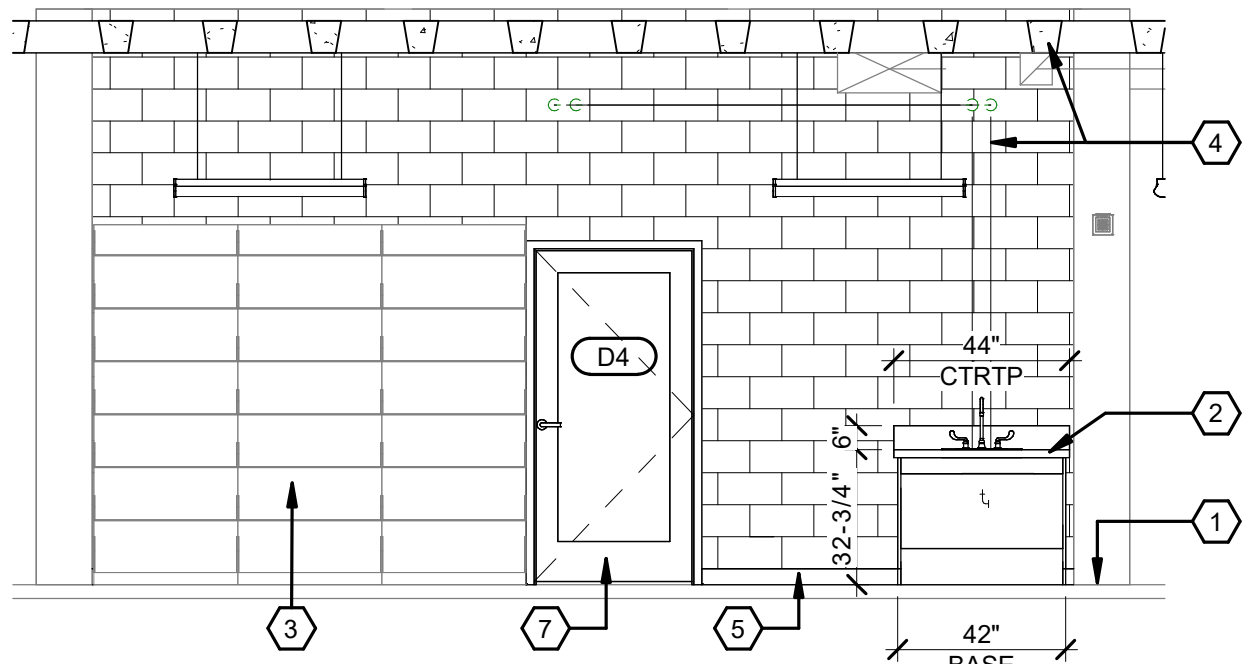
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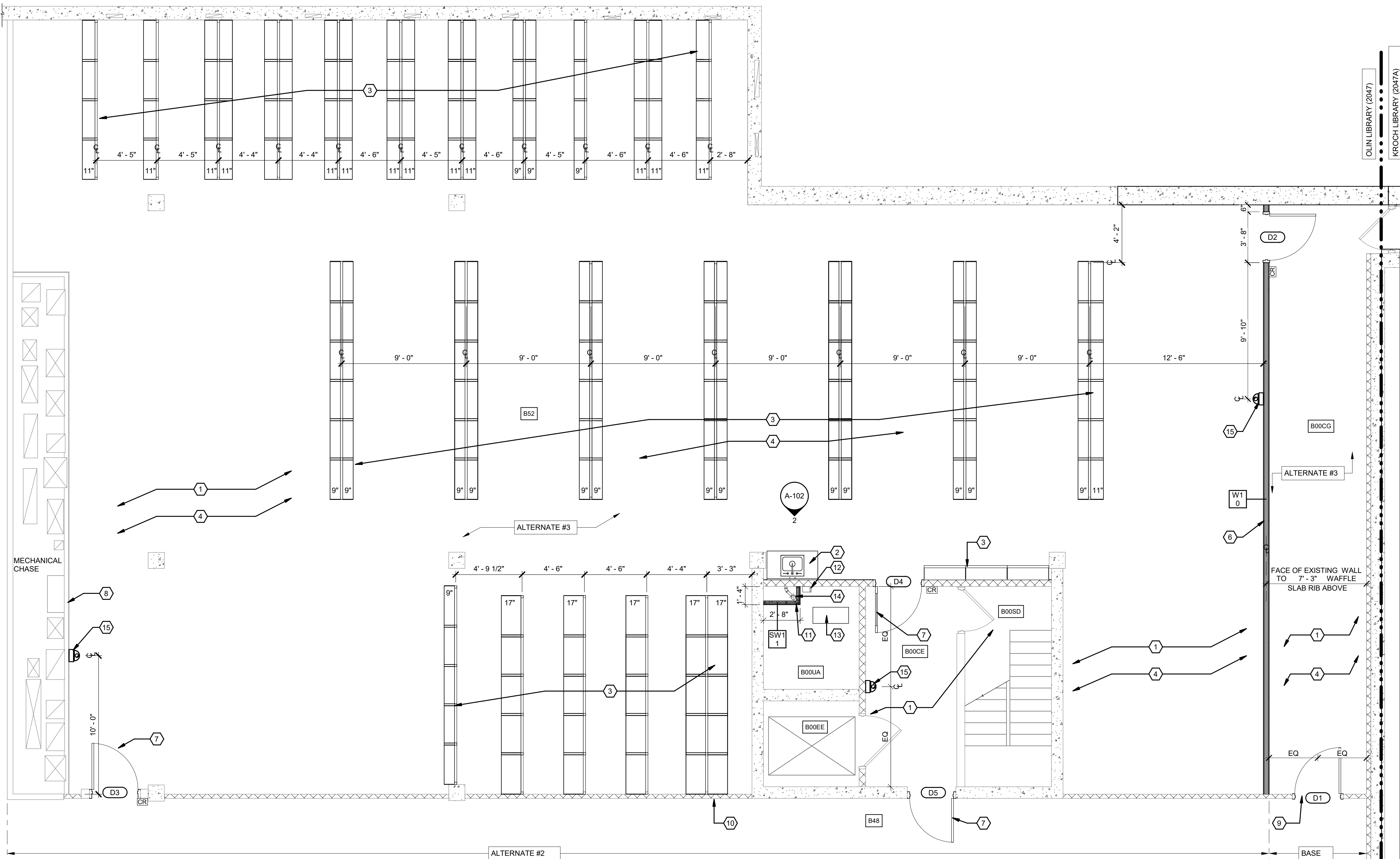
DATE:	AUGUST 06, 2026
FACILITY:	2047
DESIGN:	R. HERKO
DRAWN:	RLH

BASEMENT
DEMOLITION
PLAN

A-101
17988015



2 INT. ELEVATION
SCALE: 1/4" = 1'-0"



1 BASEMENT RENOVATION/ FINISH PLAN
SCALE: 1/4" = 1'-0"

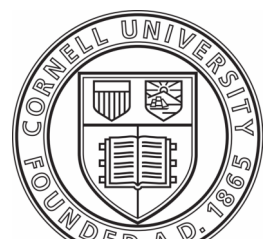
A-102 KEYED RENOVATION NOTES

- 1 BASE BID. EXISTING CONCRETE FLOOR TO BE PREPPED AS REQUIRED TO RECEIVE CONCRETE SEALER AS SCHEDULED.

FOR ADD ALTERNATE #3 (ELIMINATE CONCRETE SEALER AND INSTALL RUBBER FLOORING & BASE). PREP EXISTING CONCRETE FLOOR (LEVELING AGENT AS REQUIRED) TO INSTALL NEW RUBBER TILE FLOORING THROUGHOUT ENTIRE SPACE. FLOORING TO BE BASED ON INTERFACE NORA RUBBER TILE OR APPROVED EQUAL. ALSO, PROVIDE AND INSTALL 4"H COVE RUBBER WALL BASE. DESIGN BASED ON PRODUCT MANUFACTURED BY NORA WALL BASE FROM FULL COLOR LINE. REFER TO FINISH SCHEDULE FOR COLOR SELECTION. REFER TO ASBESTOS ABATEMENT DRAWING, HM-100.
- 2 PROVIDE AND INSTALL 42" WIDE X 31-3/4" HIGH PAINTED STEEL ADA KNEE SPACE SINK CABINET UNIT MODEL #18K3011 AS MANUFACTURED BY MOTT MANUFACTURING OR APPROVED EQUAL WITH 1" THICK PHENOLIC RESIN COUNTERTOP, WITH SINK CUTOUT AND 6" BACKSPLASH AS MANUFACTURED BY MOTT MANUFACTURING. COLORS OF SINK CABINET AND PHENOLIC TO BE SELECTED BY OWNER. PROVIDE CLEAR SEALANT AT BACKSPLASH / WALL.
- 3 EXISTING SALVAGED METAL SHELVING UNITS TO BE REINSTALLED. CONTRACTOR TO DRILL ANCHOR HOLES INTO EXISTING CONCRETE AND SET SHELVING "FEET" WITH 1/4" X 1-3/4" MIN. CONCRETE ANCHOR SCREWS.
- 4 EXISTING WALLS AND CEILING (INCLUDING ALL NEW & EXISTING DUCTS, ELECTRICAL CONDUITS AND PIPING) TO BE PREPPED FOR PAINTING. SCRAPE (LOOSE / FLAKY PAINT), PRIME AND PAINT (2 COATS). COLOR TO BE SELECTED BY OWNER. ALTERNATE #1.
- 5 PROVIDE AND INSTALL 4" HIGH COVE RUBBER WALL BASE (BASE BID). DESIGN BASED ON PRODUCT MANUFACTURED BY NORA WALL BASE. REFER TO FINISH SCHEDULE.
- 6 PROVIDE & INSTALL NEW 3 5/8" - 18 GA. METAL STUD @ 16" O.C. WALL WITH (1) LAYER OF 5/8" GWB ON EACH SIDE AND 3-1/2" SOUND INSULATION WALL FROM FLOOR TO EXISTING CONCRETE WAFFLE SLAB ABOVE. TAPE, SPACKLE (LEVEL 4 FINISH), PRIME, & PAINT (2 COATS) - BASE BID. PROVIDE 18 GA. DEFLECTION TRACK WITH 2" LEG AT TOP OF WALL. SEAL ALL ORNER/CEILING/FLOOR CONNECTIONS AND PENETRATIONS WITH ACOUSTICAL CAULK. PAINT COLOR TO BE SELECTED BY OWNER. WALL TO RECEIVE BUTT JOINTED 48"H X 96" LG X .060" TH. "KOROSEAL KOROGARD RIGID PROTECTION WALL SHEETS" OR APPROVED EQUAL EACH SIDE OF WALL. ADHERE SHEETS 1/4" MIN. ABOVE WALL BASE TO G.W.B. WALL AND PROVIDE MFGR J-MOLDING (JC12) AT TOP OF SHEET AND ANY OTHER NECESSARY TRIM AS REQUIRED. COLOR AS SELECTED BY OWNER FROM FULL LINE. REFER TO PARTITION WALL DETAIL 1/A-001.
- 7 PROVIDE AND INSTALL NEW WOOD DOOR AND HARDWARE AS SCHEDULED INTO EXISTING FRAME. MODIFY EXISTING FRAME AS REQUIRED. PATCH, REPAIR AND PAINT FRAME (2 COATS MIN.).
- 8 EXISTING G.W.B. CHASE WALL TO BE PATCHED, REPAIRED, PRIMED & PAINTED (2 COATS MIN.). EXISTING WALL TO RECEIVE NEW 4" H RUBBER COVE BASE (BASE BID) AND NEW 48"H X 96" LG RIGID WALL PROTECTION SHEETS ADHERED TO WALL (SIMILAR TO MATERIAL DEFINED IN WALL TYPE W1).
- 9 CREATE OPENING IN EXISTING C.M.U. WALL (REFER TO DEMOLITION DRAWINGS) AND PROVIDE NEW PRECAST CONCRETE LINTEL AND H.M. DOOR FRAME. EXISTING C.M.U. WALL TO BE PATCHED AND REPAIRED BOTH SIDES. PRIME AND PAINT ENTIRE WALL BOTH SIDES - BASE BID (MIN. 2 COATS).
- 10 EXISTING WALL TO BE PREPPED AND REPAINTED. ALTERNATE #2.
- 11 CONSTRUCT ONE-HOUR FIRE RATED SHAFT WALL (TOTAL THICKNESS 3-1/8") FROM FINISH FLOOR TO UNDERSIDE OF DECK ABOVE. WALL TO BE PER UL U415 DESIGN FOR SHAFT WALL - STEEL STUD (NON-LOAD BEARING). REFER TO PARTITION TYPE ON DRAWING A-001. FIRE CAULK WALL TO UNDERSIDE OF DECK.
- 12 EXISTING ELEVATOR MACHINE EQUIPMENT DISCONNECT SWITCH TO REMAIN
- 13 EXISTING ELEVATOR MACHINE CONTROL EQUIPMENT TO REMAIN
- 14 EXISTING PLUMBING WASTE STACK TO REMAIN - REFER TO MECHANICAL DRAWINGS.
- 15 NEW WALL-MOUNTED SECURITY CAMERA WALL MOUNTED. REFER TO ELECTRICAL DRAWINGS

BIDDING ALTERNATES NOTES:

1. ADD ALTERNATE #1: "SCRAPE, PRIME, PAINT (2 COATS) ALL EXISTING WALLS AND CEILING" IN CONSTRUCTION AREA DEFINED ON FINISH SCHEDULE EXCLUDING NEW WALL REFERENCED IN RENOVATION NOTE #6 AND EXISTING WALL REFERENCED IN RENOVATION NOTE #8.
2. ADD ALTERNATE #2: "SCRAPE, PRIME, PAINT (2 COATS) EXISTING WALL IN AREA OF ROOM B48".
3. ADD ALTERNATE #3: "PROVIDE AND INSTALL NEW RUBBER FLOORING IN-LIEU OF INSTALLING NEW CS 'CONCRETE SEALER' FLOORING IN AREA."



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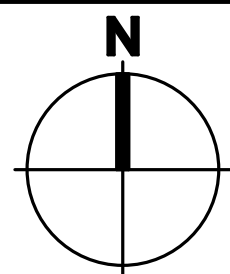
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FACILITY: 2047

DESIGN: R. HERKO

DRAWN: RLH

BASEMENT RENOVATION PLAN

A-102
17988015

GENERAL ABATEMENT NOTES:

- ASBESTOS INSPECTION REPORTS ARE AVAILABLE IN SPECIFICATION 003126 - EXISTING HAZARDOUS MATERIALS INFORMATION.
- A FACILITY-WIDE DECISION VARIANCE, FILE NO. 23-1556, PREPARED BY DELTA ENGINEERS, ARCHITECTS & LAND SURVEYORS, P.C., DATED DECEMBER 22, 2023, IS AVAILABLE IN SPECIFICATION 003126 - EXISTING HAZARDOUS MATERIALS INFORMATION.
- THE MATERIAL MEASUREMENTS, QUANTITIES, LOCATIONS, AND CONDITIONS IN THE REPORT AND ON PROJECT DRAWINGS ARE BASED ON FIELD OBSERVATIONS AND ARE NOT GUARANTEED TO BE COMPLETE AND ACCURATE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMISSION OF BID. CONSEQUENCES OF FAILURE TO FIELD VERIFY CONDITIONS SHALL BE BORNE BY THE CONTRACTOR.
- PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS AND GUIDELINES, VARIANCES, AND THE CONTRACT DOCUMENTS.
- CONTRACTOR IS REQUIRED TO COORDINATE PHASING, ACCESS, AND ABATEMENT ACTIVITIES WITH THE OWNER, OWNER'S REPRESENTATIVES, AND OTHER CONTRACTORS.
- CONTRACTOR IS RESPONSIBLE FOR ALL TOOLS, EQUIPMENT, AND SUPPLIES. THE OWNER OR OWNER'S REPRESENTATIVE WILL NOT BE LIABLE FOR THEFT OR DAMAGE.
- CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO ACCESS AND ABATE MATERIALS SCHEDULED FOR REMOVAL.
- PERFORM WORK WITHOUT DAMAGE TO OR CONTAMINATION OF ADJACENT OR NEARBY AREAS. WHERE SUCH AREAS ARE DAMAGED, RESTORATION MUST BE TO ORIGINAL CONDITION. WHERE SUCH AREAS ARE CONTAMINATED, PROVIDE FOR REQUISITE CONTAINMENT AND CLEANUP.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING THE WORK AREA IN A CLEAN AND SAFE CONDITION. CONTRACTOR SHALL ENSURE THAT UNCERTIFIED PERSONNEL OR UNAUTHORIZED VISITORS DO NOT ENTER ACTIVE WORK AREAS AT ANY TIME.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY PROTECTION TO KEEP THE BUILDING IN A WATERTIGHT CONDITION AND TO PREVENT UNAUTHORIZED ACCESS AT ALL TIMES DURING THE DURATION OF THE PROJECT. REPAIR OR DAMAGE CAUSED AS A RESULT OF IMPROPER TEMPORARY PROTECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE LOCATION OF ANY SITE STORAGE OF MATERIAL, EQUIPMENT, AND WASTE TRAILER/DUMPSTER SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
- MARKED AREAS DEPICTING WORK AREAS ARE APPROXIMATE ONLY. EXACT CUTOFF POINTS SHALL BE COORDINATED BY THE CONTRACTOR WITH OWNER'S REPRESENTATIVE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE CURRENT WASTE HANDLING, TRANSPORTATION AND DISPOSAL REGULATIONS FOR THE WORK. THE CONTRACTOR MUST DISPOSE OF ALL MATERIALS REMOVED, UNLESS DIRECTED OTHERWISE, AND COMPLY FULLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
- CONTRACTOR SHOULD FIELD LOCATE WATER AND ELECTRICAL UTILITY CONNECTIONS REQUIRED OF ABATEMENT PROCEDURES. COORDINATE WITH BUILDING OWNER OR OWNER'S REPRESENTATIVE.

GENERAL ASBESTOS ABATEMENT NOTES:

- ALL ASBESTOS ABATEMENT WORK TO BE DONE UNDER THIS CONTRACT SHALL BE IN COMPLIANCE WITH CODE RULE 56 OF NEW YORK STATE RULES AND REGULATIONS, AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
- IN LIEU OF THE ABOVE REFERENCED REQUIREMENTS, THE CONTRACTOR MAY APPLY FOR A SITE-SPECIFIC VARIANCE. TO UTILIZE A SITE-SPECIFIC VARIANCE THE CONTRACTOR SHALL MEET ALL CONDITIONS OF THE VARIANCE, AS STATED BY THE NYS DEPARTMENT OF LABOR. ALL COSTS ASSOCIATED WITH THE APPLICATION OF SITE-SPECIFIC VARIANCES SHALL BE BORNE BY THE CONTRACTOR.
- ALL PROPOSED SITE-SPECIFIC VARIANCES SHALL BE REVIEWED AND APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO SUBMITTAL TO THE NYSOL. FAILURE TO OBTAIN OWNER APPROVAL MAY RESULT IN OWNER NOT PERMITTING THE VARIANCE TO BE USED ON THE PROJECT.
- REFERENCE SECTION 020800 OF THE PROJECT SPECIFICATIONS FOR REQUIREMENTS PERTAINING TO THE ABATEMENT OF ACM.
- IDENTIFIED ACM IN THE AREAS OF SCHEDULED WORK WILL REQUIRE ABATEMENT PRIOR TO PERFORMANCE OF ANY CONSTRUCTION THAT COULD DISTURB THESE MATERIALS. REFERENCE TABLE HM-01 OF THIS SHEET FOR A SUMMARY OF THE IDENTIFIED ACM IN THE AREAS OF WORK. THE ABATEMENT PLAN DRAWINGS PROVIDE ADDITIONAL DESCRIPTION OF AREAS WHERE ABATEMENT OF THESE MATERIALS IS REQUIRED.
- THE DISTURBANCE OF ANY ASBESTOS-CONTAINING MATERIAL, OR SUSPECT MATERIAL, SHALL BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR. IF ACM OR SUSPECT ACM ARE DISTURBED DURING NON-ABATEMENT ACTIVITIES OR BY NON-ASBESTOS CERTIFIED PERSONNEL, CEASE ALL OPERATIONS AND IMMEDIATELY NOTIFY THE OWNER OR THE OWNER'S REPRESENTATIVE.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING THE WORK AREA IN A CLEAN AND SAFE CONDITION. CONTRACTOR SHALL ENSURE THAT UNCERTIFIED PERSONNEL OR UNAUTHORIZED VISITORS DO NOT ENTER ACTIVE WORK AREAS AT ANY TIME.
- THE LOCATION OF ANY SITE STORAGE OF MATERIAL, EQUIPMENT, AND WASTE TRAILER/DUMPSTER SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE. THE UNINTENTIONAL DISTURBANCE OF ACM OR SUSPECT ACM SHALL BE IMMEDIATELY REPORTED TO THE OWNER OR OWNER'S REPRESENTATIVE.
- THE OWNER SHALL BE RESPONSIBLE FOR HIRING AND PAYING AN INDEPENDENT THIRD PARTY FIRM TO PERFORM ALL OF THE REQUIREMENTS OF MONITORING AS CALLED FOR IN CODE RULE 56.
- ASBESTOS ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO ACCESS AND ABATE ACM SCHEDULED FOR REMOVAL.
- IF ADDITIONAL SUSPECT ACM IS DISCOVERED DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY AND AVOID DISTURBING THESE MATERIALS. NOTIFY THE OWNER AND OWNER'S REPRESENTATIVE IMMEDIATELY SUCH THAT SAMPLING AND ANALYSIS CAN BE ARRANGED.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE CURRENT WASTE HANDLING, TRANSPORTATION AND DISPOSAL REGULATIONS FOR THE WORK. THE CONTRACTOR MUST DISPOSE OF ALL ASBESTOS MATERIALS REMOVED AND COMPLY FULLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

TABLE HM-01: HAZARDOUS MATERIAL REMOVAL SCHEDULE			
KEY NOTE ID	HAZARDOUS MATERIAL	LOCATION	SPECIAL CONDITIONS
H1, H2, H3	9" FLOOR TILE - ASBESTOS-CONTAINING	THROUGHOUT ROOM B-52	GENERAL CONTRACTOR MAY DISASSEMBLE ANY EQUIPMENT (I.E. SHELVING, CAGE, ETC.) WITHOUT DISTURBING ASBESTOS-CONTAINING FLOOR TILE. ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISASSEMBLY OF ANY EQUIPMENT WHICH MAY CAUSE DISTURBANCE TO ASBESTOS-CONTAINING FLOOR TILE.
H4	FLOOR MASTIC - TRACE ASBESTOS	THROUGHOUT BASEMENT, UNDERNEATH ASBESTOS-CONTAINING 9" FLOOR TILE AND NON-ACM 12" ORANGE FLOOR TILE	SEE TRACE ASBESTOS AWARENESS NOTES

TRACE ASBESTOS AWARENESS NOTES:

- CONTRACTORS ARE HEREBY NOTIFIED THAT TRACE AMOUNTS OF ASBESTOS HAVE BEEN IDENTIFIED WITHIN THE FLOOR MASTIC THROUGHOUT THE PROJECT AREA. THE CONTRACTOR SHALL NOTIFY THEIR EMPLOYEES AND SUBCONTRACTORS OF THE PRESENCE AND LOCATIONS OF THESE MATERIALS AND SHALL WARN THEIR EMPLOYEES AND SUBCONTRACTORS OF THE POTENTIAL HAZARDS ASSOCIATED WITH DISTURBANCE. REFERENCE TABLE HM-01 OF THIS SHEET FOR A SUMMARY OF IDENTIFIED TRACE ASBESTOS MATERIALS WITHIN THE AREA OF WORK.
- MATERIALS CONTAINING TRACE ASBESTOS (I.E., 1.0% ASBESTOS BY WEIGHT OR LESS) DO NOT REQUIRE ABATEMENT UNDER NYSOL INDUSTRIAL CODE RULE 56; HOWEVER, WORK ACTIVITIES THAT MAY DISTURB THESE MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF OSHA 29 CFR 1926.1101.
- IN ACCORDANCE WITH 1926.1101(f)(2), CONTRACTORS SHALL PERFORM AN ASBESTOS EXPOSURE ASSESSMENT SPECIFIC TO THIS PROJECT. IF EITHER OSHA-DEFINED PERMISSIBLE EXPOSURE LIMIT (PEL) IS EXCEEDED, OR A NEGATIVE EXPOSURE ASSESSMENT CANNOT BE OBTAINED, ALL APPLICABLE REQUIREMENTS OF OSHA 29 CFR 1926.1101 SHALL BE FOLLOWED.
- WORK PRACTICE REQUIREMENTS THAT MUST BE OBSERVED REGARDLESS OF THE EXPOSURE LEVELS AND OF THE PERCENTAGE OF ASBESTOS IN THE MATERIALS TO BE IMPACTED ARE:
 - 1926.1101(g)(1)(i) - WET METHODS, OR WETTING AGENTS
 - 1926.1101(g)(1)(ii) - PROMPT CLEAN-UP AND DISPOSAL OF WASTES AND DEBRIS IN LEAK-TIGHT CONTAINERS
 - IF A VACUUM CLEANER IS TO BE USED TO CLEAN UP MATERIALS AND DEBRIS CONTAINING TRACE ASBESTOS, THE VACUUM CLEANER MUST BE EQUIPPED WITH A HEPA FILTER(S).
- WORK PRACTICES THAT ARE PROHIBITED REGARDLESS OF THE EXPOSURE LEVELS AND OF THE PERCENTAGE OF ASBESTOS IN THE MATERIALS TO BE IMPACTED ARE:
 - 1926.1101(g)(3)(i) - HIGH-SPEED ABRASIVE DISC SAWS THAT ARE NOT EQUIPPED WITH POINT OF CUT VENTILATOR OR ENCLOSURES WITH HEPA FILTERED EXHAUST AIR.
 - 1926.1101(g)(3)(iv) - COMPRESSED AIR USED TO REMOVE ASBESTOS, OR MATERIALS CONTAINING ASBESTOS, UNLESS THE COMPRESSED AIR IS USED IN CONJUNCTION WITH AN ENCLOSED VENTILATION SYSTEM DESIGNED TO CAPTURE THE DUST CLOUD CREATED BY THE COMPRESSED AIR.
 - 1926.1101(g)(3)(iv) - EMPLOYEE ROTATION AS A MEANS OF REDUCING EMPLOYEE EXPOSURE TO ASBESTOS.



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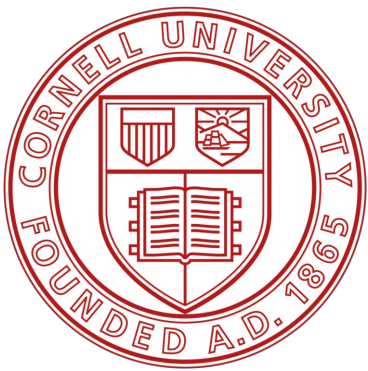
CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

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3	08/06/26	ISSUED FOR CONSTRUCTION
2	06/22/26	ISSUED FOR 95% CD REVIEW
1	02/19/26	ISSUED FOR DD REVIEW
NO.	DATE:	DESCRIPTION:
Revisions		

FACILITY:	2047
DRAWN BY:	CS
REVIEWED BY:	DM
ISSUED FOR:	CONSTRUCTION
DATE:	AUGUST 6, 2026
DRAWING NAME:	

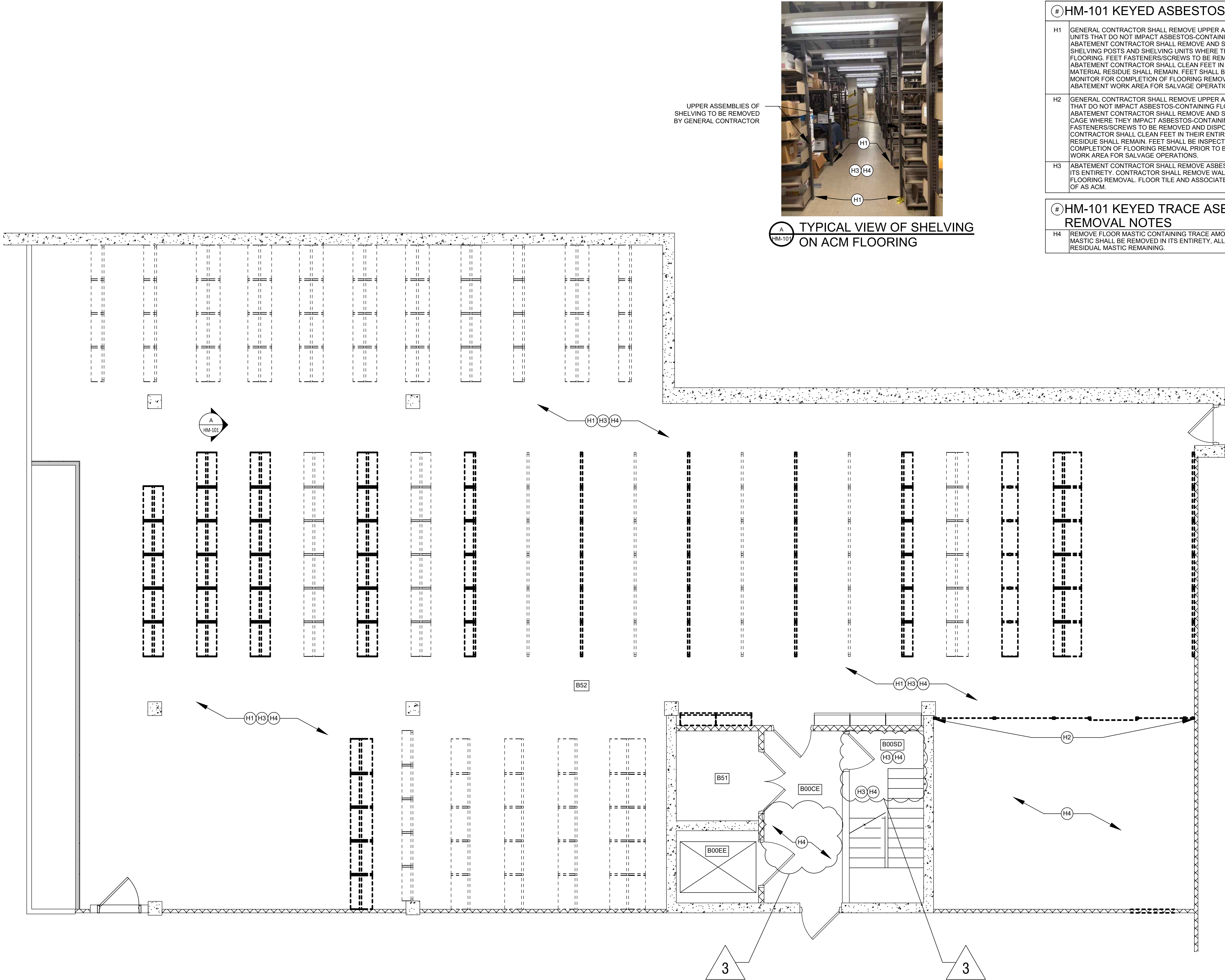
GENERAL NOTES AND
HAZARDOUS MATERIAL
REMOVAL SCHEDULE

DRAWING NUMBER:

HM-001

17988015

8/7/2026 9:38:31 AM
\\PROJECTS\Projects\4\Cornell University\2211303_74_Olin Library Rare Book Abatement\Drawings\2026.08.06_Coordinated Review\2211303_74_Olin Library_Hazmat.dwg

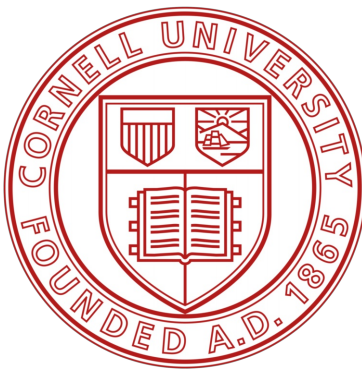


UPPER ASSEMBLIES OF
SHELVING TO BE REMOVED
BY GENERAL CONTRACTOR



A
HM-101
**TYPICAL VIEW OF SHELVING
ON ACM FLOORING**

#	HM-101 KEYED ASBESTOS REMOVAL NOTES
H1	GENERAL CONTRACTOR SHALL REMOVE UPPER ASSEMBLY/ANY PARTS OF SHELVING UNITS THAT DO NOT IMPACT ASBESTOS-CONTAINING FLOORING PRIOR TO ABATEMENT. ABATEMENT CONTRACTOR SHALL REMOVE AND SALVAGE "FEET" OF EXISTING BOOK SHELVING POSTS AND SHELVING UNITS WHERE THEY IMPACT ASBESTOS-CONTAINING FLOORING. FEET FASTENERS/SCREWS TO BE REMOVED AND DISPOSED OF AS ACM. ABATEMENT CONTRACTOR SHALL CLEAN FEET IN THEIR ENTIRETY. NO FLOORING MATERIAL RESIDUE SHALL REMAIN. FEET SHALL BE INSPECTED BY THE PROJECT MONITOR FOR COMPLETION OF FLOORING REMOVAL PRIOR TO BEING REMOVED FROM ABATEMENT WORK AREA FOR SALVAGE OPERATIONS.
H2	GENERAL CONTRACTOR SHALL REMOVE UPPER ASSEMBLY/ANY PARTS OF METAL CAGE THAT DO NOT IMPACT ASBESTOS-CONTAINING FLOORING PRIOR TO ABATEMENT. ABATEMENT CONTRACTOR SHALL REMOVE AND SALVAGE "FEET" OF EXISTING METAL CAGE WHERE THEY IMPACT ASBESTOS-CONTAINING FLOORING. FEET FASTENERS/SCREWS TO BE REMOVED AND DISPOSED OF AS ACM. ABATEMENT CONTRACTOR SHALL CLEAN FEET IN THEIR ENTIRETY. NO FLOORING MATERIAL RESIDUE SHALL REMAIN. FEET SHALL BE INSPECTED BY THE PROJECT MONITOR FOR COMPLETION OF FLOORING REMOVAL PRIOR TO BEING REMOVED FROM ABATEMENT WORK AREA FOR SALVAGE OPERATIONS.
H3	ABATEMENT CONTRACTOR SHALL REMOVE ASBESTOS-CONTAINING 9" FLOOR TILE IN ITS ENTIRETY. CONTRACTOR SHALL REMOVE WALL BASE AS NECESSARY FOR FLOORING REMOVAL. FLOOR TILE AND ASSOCIATED MATERIALS SHALL BE DISPOSED OF AS ACM.
#	HM-101 KEYED TRACE ASBESTOS REMOVAL NOTES
H4	REMOVE FLOOR MASTIC CONTAINING TRACE AMOUNTS OF ASBESTOS. FLOOR MASTIC SHALL BE REMOVED IN ITS ENTIRETY, ALL LAYERS, FULL DEPTH, WITH NO RESIDUAL MASTIC REMAINING.



3	08/06/26	ISSUED FOR CONSTRUCTION
2	06/22/26	ISSUED FOR 95% CD REVIEW
1	02/19/26	ISSUED FOR DD REVIEW
NO.	DATE:	DESCRIPTION:

Revisions

FACILITY: 2047

DRAWN BY: CS

REVIEWED BY: DM

ISSUED FOR: CONSTRUCTION

DATE: AUGUST 6, 2026

DRAWING NAME:

**PARTIAL BASEMENT
HAZARDOUS MATERIAL
REMOVAL PLAN**

DRAWING NUMBER:

HM-101

17988015

CONTROL SYMBOLOGY	
	2-WAY CONTROL VALVE, DIGITAL
	2-WAY CONTROL VALVE, PNEUMATIC
	3-WAY CONTROL VALVE, DIGITAL
	3-WAY CONTROL VALVE, PNEUMATIC
	ADDRESSABLE OUTPUT MODULE (FIRE ALARM INTERFACE)
	AIRFLOW CONTROL VALVE (VENTURI OR VORTEX SHEDDING)
	AVERAGING SENSOR
	BINARY POINT
	BUTTERFLY CONTROL DAMPER
	CARBON DIOXIDE SENSOR
	CONDENSATE SENSOR
	CURRENT SENSOR
	DEW-POINT SENSOR
	DIFFERENTIAL PRESSURE SENSOR
	DIFFERENTIAL PRESSURE SENSOR
	ELECTRIC TO PNEUMATIC SWITCH
	ELECTRIC TO PNEUMATIC TRANSDUCER
	END SWITCH
	FLOW ELEMENT (METER)
	FLOW SENSOR
	HIGH LEVEL SWITCH
	HUMIDSTAT SENSOR
	LIQUID IMERSION TEMPERATURE SENSOR
	LOW LEVEL SWITCH
	MODULATING
	MOTOR
	MOTOR STARTER
	NETWORK COMMUNICATION POINT, BACnet MSTP
	OCCUPANCY SENSOR
	OPEN/CLOSE
	OPPOSED BLADE CONTROL DAMPER
	PARALLEL BLADE CONTROL DAMPER
	PNEUMATIC THERMOSTAT
	PRESSURE SENSOR
	PRESSURE SWITCH
	RELATIVE HUMIDITY SENSOR
	RELAY
	ROOM TEMPERATURE SENSOR WITH ADJUSTABLE THERMOSTAT
	ROOM TEMPERATURE SENSOR WITH OCCUPANCY OVERRIDE
	ROOM TEMPERATURE SENSOR WITH ON/OFF SWITCH
	ROOM TEMPERATURE SENSOR WITH VISUAL DISPLAY
	ROTATION DETECTOR
	SINGLE POINT SENSOR
	SMOKE DETECTOR
	SPEED COMMAND
	START/STOP
	STATIC PRESSURE SENSOR
	SWITCH
	TEMPERATURE SENSOR
	TEMPERATURE SENSOR
	TEMPERATURE SENSOR WITH ADJUSTABLE SETPOINT

MECHANICAL SYMBOLOGY	
	AIR VENT, AUTOMATIC
	AIR VENT, MANUAL
	ACCESS DOOR
	BACKDRAFT DAMPER
	BACKFLOW PREVENTOR, DOUBLE-CHECK VALVE (DCV)
	BACKFLOW PREVENTOR, REDUCED PRESSURE ZONE (RPZ)
	BALANCE VALVE
	BALL VALVE
	BOTTOM OF PIPE CONNECTION
	BUTTERFLY VALVE
	CAP OR PLUG
	CHECK VALVE
	CONTROL VALVE, THREE-WAY, MOTORIZED, DIGITAL
	CONTROL VALVE, THREE-WAY, SOLENOID, DIGITAL
	CONTROL VALVE, THREE-WAY, MOTORIZED, PNEUMATIC
	CONTROL VALVE, TWO-WAY, MOTORIZED, DIGITAL
	CONTROL VALVE, TWO-WAY, SOLENOID, DIGITAL
	CONTROL VALVE, TWO-WAY, MOTORIZED, PNEUMATIC
	DIRECTION OF AIRFLOW, DUCTWORK
	DIRECTION OF FLOW, PIPING
	DUCT TRANSITION
	DUCT UP / DOWN (SUPPLY)
	DUCT UP / DOWN (RETURN)
	DUCT UP / DOWN (EXHAUST)
	DUCT UP / DOWN THROUGH ROOF / FLOOR (SUPPLY)
	DUCT UP / DOWN THROUGH ROOF / FLOOR (RETURN)
	DUCT UP / DOWN THROUGH ROOF / FLOOR (EXHAUST)
	FIRE AND SMOKE DAMPER IN DUCT
	FIRE DAMPER IN DUCT
	FLANGE CONNECTION
	FLEXIBLE CONNECTION (PIPE)
	FLEXIBLE CONNECTION (DUCT)
	FLEXIBLE DUCT
	FLEXIBLE PIPE
	FLOW METER
	FLOW SWITCH
	GATE VALVE
	GATE VALVE, ANGLE
	GLOBE VALVE
	GLOBE VALVE, ANGLE
	PIPE DOWN
	PIPE UP
	PUMP
	PRESSURE SWITCH
	DUCT ELBOW, 90°
	DUCT ELBOW, RADIUS
	STANDARD BRANCH DUCT
	STEAM TRAP
	STRAINER
	STRAINER WITH BLOWDOWN VALVE & CAP
	STRAINER, DUPLEX
	TEMPERATURE WELL
	THERMOMETER
	THERMOSTAT
	TOP PIPE CONNECTION
	UNION
	VACUUM BREAKER
	VOLUME DAMPER

PLUMBING SYMBOLOGY	
	AIR VENT, AUTOMATIC
	AIR VENT, MANUAL
	BACKFLOW PREVENTOR, DOUBLE-CHECK VALVE (DCV)
	BACKFLOW PREVENTOR, REDUCED PRESSURE ZONE (RPZ)
	BALANCE VALVE
	BALL VALVE
	BOTTOM OF PIPE CONNECTION
	BUTTERFLY VALVE
	CAP OR PLUG
	CHECK VALVE
	CONTROL VALVE, THREE-WAY, MOTORIZED, DIGITAL
	CONTROL VALVE, THREE-WAY, MOTORIZED, PNEUMATIC
	CONTROL VALVE, TWO-WAY, MOTORIZED, DIGITAL
	CONTROL VALVE, TWO-WAY, SOLENOID, DIGITAL
	CONTROL VALVE, TWO-WAY, MOTORIZED, PNEUMATIC
	DIRECTION OF FLOW, PIPING
	FLANGE CONNECTION
	FLEXIBLE CONNECTION (PIPE)
	FLEXIBLE CONNECTION (DUCT)
	FLEXIBLE PIPE
	FLOW METER
	FLOW SWITCH
	GATE VALVE
	GATE VALVE, ANGLE
	GLOBE VALVE
	GLOBE VALVE, ANGLE
	PIPE DOWN
	PIPE UP
	PUMP
	PRESSURE SWITCH
	STEAM TRAP
	STRAINER
	STRAINER WITH BLOWDOWN VALVE & CAP
	STRAINER, DUPLEX
	TEMPERATURE WELL
	THERMOMETER
	THERMOSTAT
	TOP PIPE CONNECTION
	UNION
	VACUUM BREAKER

CONTROL ABBREVIATIONS	
AI	ANALOG INPUT
AO	ANALOG OUTPUT
AV	ANALOG VALVE
BI	BINARY INPUT
BO	BINARY OUTPUT
BV	BINARY VALVE
F.L.	FAIL LAST
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
VFD	VARIABLE FREQUENCY DRIVE

MECHANICAL ABBREVIATIONS	
BCU	BLOWER COIL UNIT
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CC	CLEAN CONDENSATE
CO	CLEAN OUT
CS	CLEAN STEAM
CD	CONDENSATE DRAIN
EA	EXHAUST AIR
EA(G)	EXHAUST AIR (GREASE DUCT)
EAG	EXHAUST AIR GRILLE
FD	FIRE DAMPER
GWR	GLYCOL HEATING RETURN
GWS	GLYCOL HEATING SUPPLY
HPR	HIGH PRESSURE STEAM RETURN
HPS	HIGH PRESSURE STEAM SUPPLY
HWR	HOT WATER HEATING RETURN
HWS	HOT WATER HEATING SUPPLY
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
MU	MAKE UP WATER
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
NG	NATURAL GAS
PCWR	PROCESS CHILLED WATER RETURN
PCWS	PROCESS CHILLED WATER SUPPLY
HG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RAG	RETURN AIR GRILLE
SA	SUPPLY AIR
SAD	SUPPLY AIR DIFFUSER
TA	TRANSFER AIR
VD	VOLUME DAMPER

GENERAL DRAWING SYMBOLOGY	
	DEMOLISHED WORK
	EXISTING PIPING TO REMAIN
	EXISTING TO REMAIN
	EXISTING WORK TO REMAIN
	NEW WORK
	POINT OF CONNECTION
	POINT OF DISCONNECTION

PLUMBING ABBREVIATIONS	
A	LABORATORY COMPRESSED AIR
BFP	BACKFLOW PREVENTER
BOP	BOTTOM OF PIPE
CO	CLEAN OUT
CS	CUP SINK
DCW	DOMESTIC COLD WATER
DE-CL	DECHLORINATED WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRC
DI	DEIONIZED WATER
DI-R	DEIONIZED WATER RECIRC
DN	DOWN
ES	EMERGENCY SHOWER
EW	EMERGENCY EYEWASH
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FS	FLOOR SINK
G	LABORATORY GAS
HB	HOSE BIBB
ID	INDIRECT WASTE
LAV	LAVATORY
LV	LABORATORY VENT
LW	LABORATORY WASTE
M	LABORATORY GAS MANIFOLD
MSB	MOP SINK BASIN
N	NITROGEN
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OS&Y	OUTSIDE SCREW & YOKE
PP	POLYPROPYLENE
PVC	POLYVINYL CHLORIDE
RO	REVERSE OSMOSIS
RPZ	REDUCED PRESSURE ZONE BFP ASSEMBLY
SAN	SANITARY
SK	SINK
SS	STAINLESS STEEL
ST	STORM
STO	STORM OVERFLOW
SW	SOFTENED WATER
TP	TRAP PRIMER
TYP	TYPICAL
UR	URINAL
V	VENT
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WHA	WATER HAMMER ARRESTOR
WM	WATER METER

MECHANICAL & PLUMBING SCOPE OF WORK

- 1.0 PROVIDE ADA SINK WITH GOOSENECK FAUCET. EXTEND PLUMBING SERVICES TO SINK.
- 2.0 PROVIDE VOLUME DAMPERS AND REBALANCE DUCTWORK SYSTEM TO AIRFLOWS INDICATED.

MECHANICAL GENERAL NOTES

- 1.0 DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. IF DIMENSIONS OR CONDITIONS ARE FOUND TO BE IN CONFLICT WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY REFER THE CONFLICT TO THE ENGINEER.
- 2.0 ALL DUCT DIMENSIONS INDICATED ARE IN INCHES, AND ARE INSIDE FREE AND CLEAR DIMENSIONS.
- 3.0 INSTALL EQUIPMENT TO ENSURE PROPER ACCESS TO CONTROL DEVICES AND WITH SUFFICIENT SPACE TO PERFORM ROUTINE MAINTENANCE AND REPAIR. EQUIPMENT THAT IS NOT INSTALLED WITH THIS REQUIREMENT IN MIND SHALL BE RELOCATED AT NO EXPENSE TO THE UNIVERSITY UNTIL DEFICIENCIES ARE CORRECTED.
- 4.0 ALL SYSTEM TESTING SHALL BE CONDUCTED PRIOR TO INSULATION, FIREPROOFING, AND ENCLOSURE IN SHAFTS. ANY RESTORATION WORK REQUIRED AS A RESULT OF DISTURBING FINISHES OR STRUCTURE IN ORDER TO ACCESS SYSTEMS REQUIRING REPAIR SHALL BE AT NO COST TO THE UNIVERSITY.
- 5.0 CUTTING AND PATCHING: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, FITTING, AND PATCHING TO COMPLETE THE WORK. WHERE EXISTING CONSTRUCTION IS REMOVED, CAUSING AN EXPOSURE OF UNFINISHED AND/OR DAMAGED SURFACES, RESULTING SURFACES SHALL BE RECONSTRUCTED WITH MATERIALS TO MATCH FINISHED AREAS.
- 6.0 TESTING AND BALANCING: THE CONTRACTOR SHALL BALANCE ALL AIR SYSTEMS AS INDICATED. SUBMIT RESULTS OF TESTING AND BALANCING ON STANDARD TAB CONTRACTOR'S FORMS TO THE ENGINEER FOR REVIEW. SYSTEMS SHALL BE BALANCED TO WITHIN +/- 5% OF DESIGN VALUES. FINAL BALANCING SHALL OCCUR AFTER ALL LEAKS IN THE BUILDING ENVELOPE HAVE BEEN IDENTIFIED AND SEALED.
- 7.0 ANY FIRESTOPPING DISTURBED DURING THE COURSE OF WORK SHALL BE REPAIRED TO MAINTAIN A 2-HOUR FIRE RATING.
- 8.0 PNEUMATIC TERMINATIONS: IF COPPER: DEMO BACK TO MAIN AND PROVIDED SOLDERED END CAP IF POLY: DEMO BACK TO MAIN AND PROVIDE BRASS PLUG

DO NOT USE SHEETMETAL SCREW OR BEND OVER END OF COPPER TUBE.

PLUMBING GENERAL NOTES

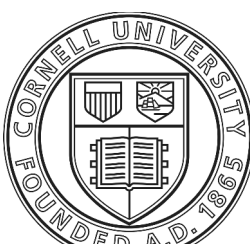
- 1.0 DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. IF DIMENSIONS OR CONDITIONS ARE FOUND TO BE IN CONFLICT WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY REFER THE CONFLICT TO THE ENGINEER.
- 2.0 UTILITY SHUTDOWNS: SHUTDOWN OF ANY BUILDING UTILITY SYSTEM SHALL BE COORDINATED WITH THE BUILDING MANAGER. THE CONTRACTOR SHALL BEAR THE COST OF THE UTILITY SHUTDOWN. SCHEDULE WORK TEN DAYS IN ADVANCE AND NOTIFY THE OWNER'S REPRESENTATIVE TO COORDINATE BUILDING FUNCTIONS WITH THE BUILDING COORDINATOR.
- 3.0 WORK IS REQUIRED IN VARIOUS PORTIONS OF MULTIPLE FACILITIES TO EXECUTE WORK OF OTHER TRADES (EG ELECTRICAL, MECHANICAL). ALTHOUGH NOT NECESSARILY SHOWN ON DRAWINGS, WORK IS REQUIRED IN THESE AREAS CONSISTING OF REMOVAL / REPLACEMENT OF CEILINGS, WALLS, FINISHES, AND OTHER CONSTRUCTION AS NECESSARY TO PERFORM WORK AND RESTORE THESE SPACES OR AREAS TO ORIGINAL CONDITION.
- 4.0 ALL PENETRATIONS THROUGH FULL HEIGHT WALLS ARE TO BE FIRESTOPPED IN ACCORDANCE WITH UL STANDARDS. ALL GAPS AND JOINTS AT RATED FLOORS AND WALLS ARE TO BE FIRE AND SMOKE STOPPED. CAPS AND JOINTS INCLUDE BUT ARE NOT LIMITED TO: TOP OF WALL TO FLOOR OR ROOF DECK, WALL TO BEAMS, AND CONTROL OR EXPANSION JOINTS. FIRESTOPPING INCLUDES BOTH FORM OR PACKING MATERIAL AND THE FILL, VOID OR CAVITY MATERIAL.
- 5.0 INSTALL EQUIPMENT TO ENSURE PROPER ACCESS TO CONTROL DEVICES AND WITH SUFFICIENT SPACE TO PERFORM ROUTINE MAINTENANCE AND REPAIR. EQUIPMENT THAT IS NOT INSTALLED WITH THIS REQUIREMENT IN MIND SHALL BE RELOCATED AT NO EXPENSE TO THE UNIVERSITY UNTIL DEFICIENCIES ARE CORRECTED.
- 6.0 ALL SYSTEM TESTING SHALL BE CONDUCTED PRIOR TO INSULATION, FIREPROOFING, AND ENCLOSURE IN SHAFTS. ANY RESTORATION WORK REQUIRED AS A RESULT OF DISTURBING FINISHES OR STRUCTURE IN ORDER TO ACCESS SYSTEMS REQUIRING REPAIR SHALL BE AT NO COST TO THE UNIVERSITY.
- 7.0 SCHEDULE A PRE-INSTALLATION MEETING TO REVIEW FINAL EQUIPMENT/FIXTURE LOCATIONS PRIOR TO ROUGHING-IN. OBTAIN ALL REQUIREMENTS FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT FROM THE OWNER OR DESIGNATED AGENT.
- 8.0 CUTTING AND PATCHING: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, FITTING, AND PATCHING TO COMPLETE THE WORK. WHERE EXISTING CONSTRUCTION IS REMOVED, CAUSING AN EXPOSURE OF UNFINISHED AND/OR DAMAGED SURFACES, RESULTING SURFACES SHALL BE CONSTRUCTED WITH MATERIALS TO MATCH FINISHED AREAS.
- 9.0 TESTING AND BALANCING: THE CONTRACTOR SHALL BALANCE ALL AIR AND WATER SYSTEMS AS INDICATED. SUBMIT RESULTS OF TESTING AND BALANCING ON STANDARD TAB CONTRACTOR'S FORMS TO THE ENGINEER FOR REVIEW. SYSTEMS SHALL BE BALANCED TO WITHIN +/- 10% OF DESIGN VALUES.
- 10.0 ANY FIRESTOPPING DISTURBED DURING THE COURSE OF WORK SHALL BE REPAIRED TO MAINTAIN A 2-HOUR FIRE RATING.
- 11.0 COMPRESSED AIR FOR BUILDINGS SHALL BE MAINTAINED AT ALL TIMES. COORDINATE SHUTDOWNS AND SWITCHOVER WITH BUILDING MANAGER.

MECHANICAL SUBMITTAL REGISTRY

SECTION	DESCRIPTION	MATERIAL	SHOP DRAWINGS	COORD. DRAWINGS	AS-BUILT DRAWINGS	PRODUCT DATA	SCHEDULES	WIRING DIAGRAMS	CALCULATIONS	SAMPLES	STANDARDS	QUALIFICATIONS	CERTIFICATIONS	MFR INSTRUCTIONS	INSP. & TEST REPORTS	OPS & MAINT. DATA	WARRANTIES & BONDS
230593	TESTING, ADJUSTING, & BALANCING FOR HVAC	CERTIFIED TEST REPORT															
233300	AIR DUCT ACCESSORIES	VOLUME DAMPERS	X	X	X	X											

PLUMBING SUBMITTAL REGISTRY

SECTION	DESCRIPTION	MATERIAL	SHOP DRAWINGS	COORD. DRAWINGS	AS-BUILT DRAWINGS	PRODUCT DATA	SCHEDULES	WIRING DIAGRAMS	CALCULATIONS	SAMPLES	STANDARDS	QUALIFICATIONS	CERTIFICATIONS	MFR INSTRUCTIONS	INSP. & TEST REPORTS	OPS & MAINT. DATA	WARRANTIES & BONDS
220517	SLEEVES & SEALS FOR PLUMBING	SLEEVES & SEALS															
220523	GENERAL DUTY VALVES FOR PLUMBING	BALL VALVES															
220523	--	AIR ADMITTANCE VALVES				X											
220700	PLUMBING INSULATION	DOMESTIC COLD WATER PIPING INSULATION				X											
221116	DOMESTIC WATER PIPING	COPPER PIPING AND FITTINGS				X	X										
221316	SANITARY AND VENT PIPING	PVC SCHEDULE 40 PIPING AND FITTINGS				X	X								X		
224213	COMMERCIAL PLUMBING FIXTURES	SINKS/ FAUCETS				X	X								X		



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ELECTRICAL: *ATR*

MECHANICAL: *9F*



REVISIONS

1	02/19/26	ISSUE FOR DD REVIEW
2	06/22/26	ISSUE FOR 95% REVIEW
3	09/06/26	ISSUE FOR CONSTRUCTION

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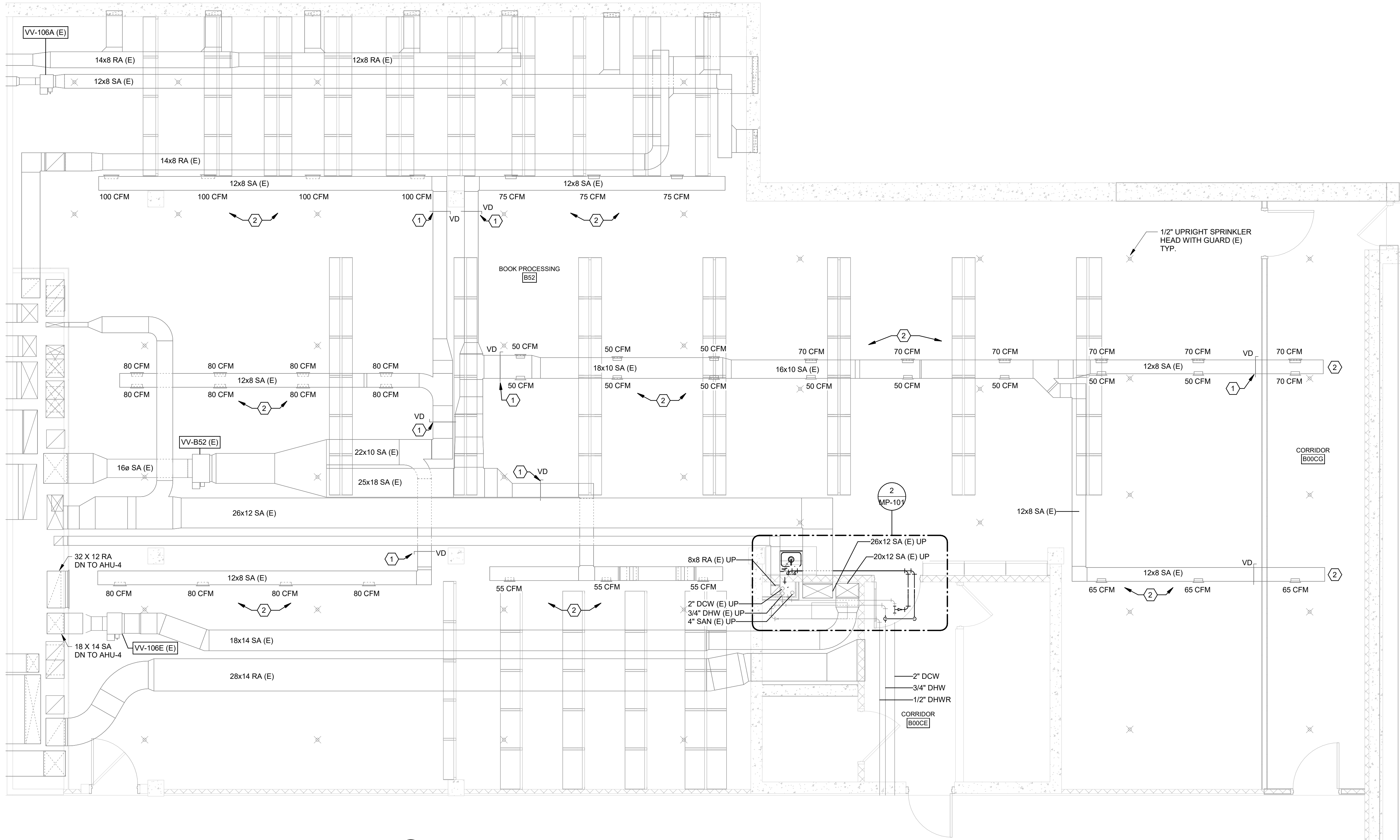
DESIGN: V. SOZANSKI

DRAWN: VAS

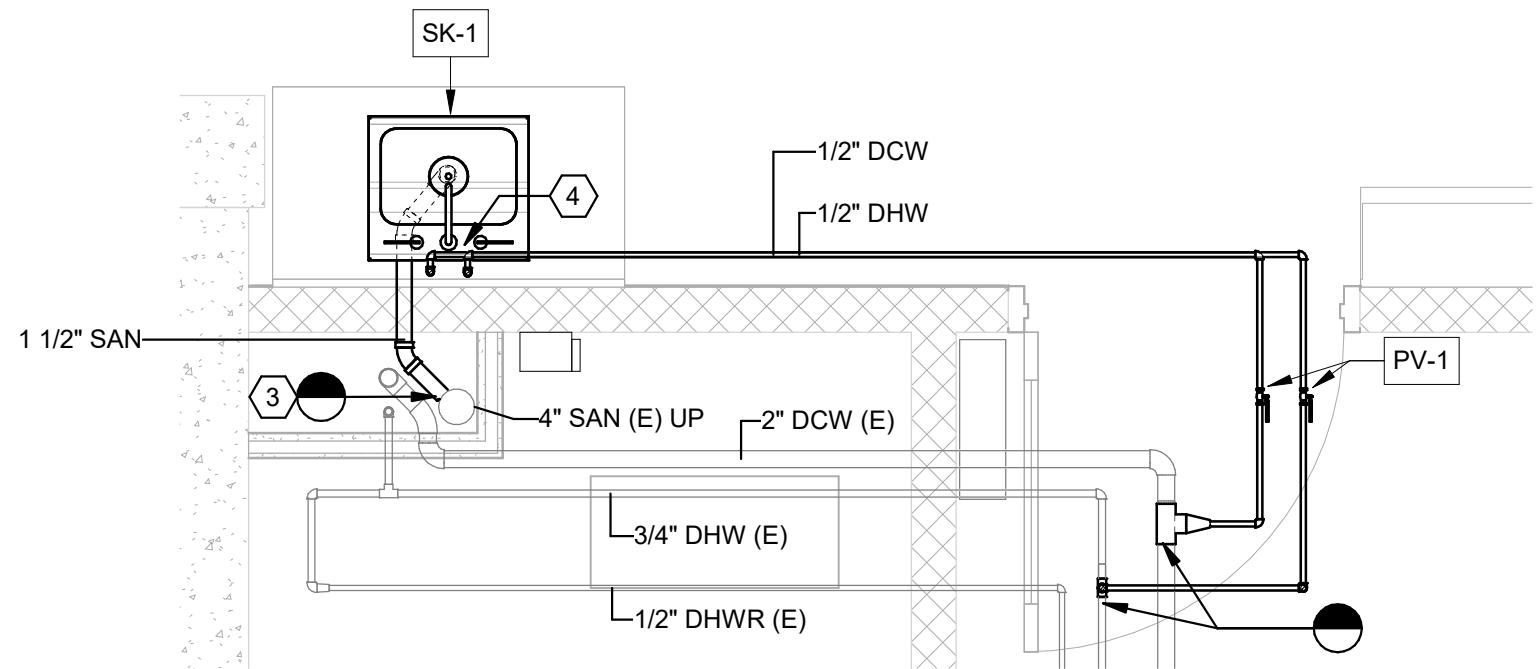
MECHANICAL &
PLUMBING
GENERAL NOTES
AND SYMBOL
LEGENDS

MP-001

17988015



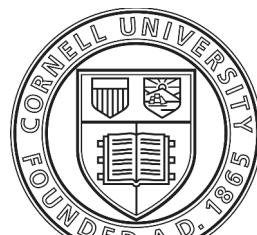
1 MECHANICAL & PLUMBING BASEMENT RENOVATION PLAN
SCALE: 1/4" = 1'-0"



2 PLUMBING ENLARGED PLAN
SCALE: 1/2" = 1'-0"

MP-101 KEYED RENOVATION NOTES

- 1 PROVIDE DUCT BALANCING DAMPER IN EXISTING DUCTWORK.
- 2 BALANCE SUPPLY AIR GRILLES TO AIRFLOW RATE SHOWN.
- 3 TIE 1-1/2" SAN FROM SINK INTO EXISTING 4" SAN RISER.
- 4 ROUTE 1/2" DCW AND 1/2" DHW DOWN ALONG WALL AND THROUGH CASEWORK.



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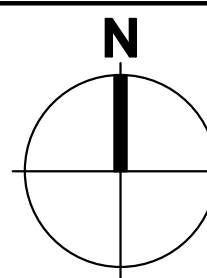
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ARCH/ CIVIL: *MB*
ELECTRICAL: *ATR*
MECHANICAL: *JS*



REVISIONS

- | | | |
|---|----------|------------------------|
| 1 | 02/19/26 | ISSUE FOR DD REVIEW |
| 2 | 06/22/26 | ISSUE FOR 95% REVIEW |
| 3 | 08/06/26 | ISSUE FOR CONSTRUCTION |



0' 2' 4' 8'
SCALE: 1/4" = 1'-0"
0' 1' 2' 4'
SCALE: 1/2" = 1'-0"

161 HO PLAZA
ITHACA, NEW YORK 14853

OLIN LIBRARY
B52 RARE
PROCESSING
SPACE
RENOVATION

DATE:	AUGUST 06, 2026
FACILITY:	2047
DESIGN:	V. SOZANSKI
DRAWN:	VAS

MECHANICAL &
PLUMBING
RENOVATION
PLANS

MP-101
17988015

PLUMBING FIXTURE SCHEDULE & SPECIFICATION											
NOTES 1. PROVIDE WITH ADA COMPLIANT 4" CENTERSET FAUCET WITH 4" GOOSENECK SPOUT AND 4" WRISTBLADE HANDLES. 1.5 GPM. ELKAY LK406GN04T4 OR APPROVED EQUAL.											
TAG	COMPONENTS	MANUFACTURER	MODEL	DESCRIPTION	MATERIAL	COLD WATER	HOT WATER	WASTE / SANITARY	VENT	NOTES	
SK-1	ADA SINK	ACORN ENGINEERING	SDADA-1918	SINGLE BOWL DROP-IN SINK	304 STAINLESS STEEL	1/2"	1/2"	1-1/2"	1-1/2"	1	

PLUMBING PIPING SCHEDULE & SPECIFICATION											
SPECS: 1) SOLDER FILLER METALS: ASTM B32, LEAD-FREE ALLOYS. INCLUDE WATER FLUSHABLE FLUX ACCORDING TO ASTM B813. 2) DIELECTRIC FITTINGS: USE FLANGES OR COUPLINGS. UNIONS ARE UNACCEPTABLE 3) INSTALL ESCUTCHEONS FOR PENETRATIONS OF WALLS, CEILING, AND FLOORS 4) INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, AND CONCRETE FLOOR AND ROOF SLABS. 5) INSTALL PLUMBING SYSTEMS TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS. 6) ALL WASTE PIPING SHALL BE PITCHED AT 1/8" PER FOOT. ALL SUPPLY PIPING SHALL BE PITCHED BACK TOWARDS CONNECTION TO THE ROOM ENTRANCE 7) PROVIDE VAPOR RETARDER ON PIPING INSULATION SYSTEMS CARRYING FLUIDS WITH AN OPERATING TEMPERATURE LOWER THAN 60 DEGREES F 8) POLYPROPYLENE PIPING SHALL BE FLAME RETARDANT 9) ALL PIPING AND INSULATION SYSTEM EXPOSED TO VIEW SHALL BE PAINTED TO MATCH SURROUNDING SURFACES JACKETING IN HIGH TRAFFIC AREAS AND ALL EXPOSED PIPING BELOW 8 FEET SHALL BE ALUMINUM OR PVC 10) MAINTAIN INDICATED FIRE RATING OF WALLS, PARTITIONS, CEILINGS, AND FLOORS AT PIPE PENETRATIONS. SEAL PIPE PENETRATIONS WITH FIRESTOP MATERIALS 11) DO NOT ENCLOSE, COVER OR PUT PLUMBING PIPING SYSTEMS INTO OPERATION UNTIL IT HAS BEEN INSPECTED AND APPROVED BY THE AUTHORITIES HAVING JURISDICTION. 12) LEAVE NEW, ALTERED, EXTENDED, OR REPLACED DOMESTIC WATER PIPING UNCOVERED AND UNCONCEALED UNTIL IT HAS BEEN TESTED. EXPOSE WORK THAT WAS COVERED OR CONCEALED BEFORE IT WAS TESTED. 13) PROVIDE PIPE LABELS AND DIRECTIONAL ARROWS ON ALL NEW PIPING SYSTEMS 14) LABELS SHALL BE PRINTED PLASTIC WITH CONTACT-TYPE, PERMANENT ADHESIVE BACKING. LETTERS SHALL BE 1/4-INCH IF VIEWING DISTANCE IS LESS THAN 24 INCHES, 1/2-INCH FOR VIEWING DISTANCES UP TO 72 INCHES, AND PROPORTIONATELY LARGER LETTERING FOR GREATER VIEWING DISTANCES 15) ALL INSULATION AND ADHESIVE SHALL HAVE A MAXIMUM FLAME-SPREAD INDEX OF 25 AND A MAXIMUM SMOKE-DEVELOPED INDEX OF 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84. 16) TESTING OF DOMESTIC WATER PIPING: CAP AND SUBJECT DOMESTIC WATER PIPING TO STATIC WATER PRESSURE OF 50 PSIG ABOVE OPERATING PRESSURE. WITHOUT EXCEEDING PRESSURE RATING OF PIPING SYSTEM MATERIALS ISOLATE TEST SOURCE AND ALLOW TO STAND FOR FOUR HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING UNTIL SATISFACTORY RESULTS ARE OBTAINED. 17) TESTING OF DOMESTIC WASTE AND VENT PIPING: CAP AND SUBJECT DOMESTIC WASTE AND VENT PIPING TO STATIC WATER PRESSURE OF 10 FEET HEAD PRESSURE ABOVE HIGHEST POINT OF SYSTEM UNDERGOING TEST ISOLATE TEST SOURCE AND ALLOW TO STAND UNTIL SYSTEM CAN BE VISUALLY INSPECTED BY AUTHORITY HAVING JURISDICTION. LEAKS CONSTITUTE DEFECTS THAT MUST BE REPAIRED REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING UNTIL SATISFACTORY RESULTS ARE OBTAINED. 18) CLEANING AND DISINFECTION OF POTABLE WATER SYSTEMS: FLUSH PIPING SYSTEM WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT OUTLETS FILL SYSTEM WITH WATERCHLORINE SOLUTION WITH AT LEAST 50 PPM OF CHLORINE. ISOLATE WITH VALVES AND ALLOW TO STAND FOR 24 HOURS. DRAIN TO SANITARY. FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL NO CHLORINE REMAINS IN WATER COMING FROM SYSTEM SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION. REPEAT PROCEDURE IF BIOLOGICAL EXAMINATION SHOWS EVIDENCE OF CONTAMINATION. 19) CLEANING AND PROTECTION OF DOMESTIC WASTE AND VENT PIPING CLEAN INTERIOR OF PIPING SYSTEM. REMOVE DIRT AND DEBRIS AS WORK PROGRESSES PROTECT DRAINS DURING CONSTRUCTION PERIOD TO AVOID CLOGGING WITH DIRT AND DEBRIS AND TO PREVENT DAMAGE FROM TRAFFIC AND CONSTRUCTION WORK PLACE PLUGS IN ENDS OF UNCOMPLETED PIPING AT END OF DAY AND WHEN WORK STOPS											

PIPE SERVICE	ABBREVIATION	PIPE SIZE	MATERIAL	FITTINGS	JOINT	INSULATION	MATERIAL	JACKET	VAPOR RETARDER	FINISH	NOTES
DOMESTIC COLD WATER	DCW	RUNOUTS	ASTM B88 TYPE L COPPER	ASTM B16.22 STD WROUGHT COPPER	ASTM B32 SOLDER	1/2", k=0.27 (MAX)	FIBERGLASS	ASJ	YES	NONE	
DOMESTIC COLD WATER	DCW	1/2" - 6"	ASTM B88 TYPE L COPPER	ASTM B16.22 STD WROUGHT COPPER	ASTM B32 SOLDER	1", k=0.27 (MAX)	FLEXIBLE ELASTOMERIC	NONE	YES	NONE	
DOMESTIC HOT WATER & RECIRC	DHW, DHWR	RUNOUTS	ASTM B88 TYPE L COPPER	ASTM B16.22 STD WROUGHT COPPER	ASTM B32 SOLDER	1/2", k=0.27 (MAX)	FIBERGLASS	ASJ	NO	NONE	
DOMESTIC HOT WATER & RECIRC	DHW, DHWR	1/2" - 6"	ASTM B88 TYPE L COPPER	ASTM B16.22 STD WROUGHT COPPER	ASTM B32 SOLDER	1", k=0.27 (MAX)	FLEXIBLE ELASTOMERIC	NONE	NO	NONE	
DRAIN, WASTE & VENT PIPING ABOVE GRADE	SAN / V	ALL SIZES	ASTM A74, ASTM A888 SERVICE WEIGHT CAST IRON	ASTM A74, ASTM A888 CAST IRON NO-HUB	ASTM C1277 NEOPRENE GASKET SS BANDS						
DRAIN, WASTE & VENT PIPING ABOVE GRADE	SAN / V	2-1/2" & LARGER	ASTM A74 CAST IRON BELL & SPIGOT	ASTM A74 CAST IRON BELL & SPIGOT	ASTM C564 BELL & SPIGOT NEOPRENE GASKET						
DRAIN, WASTE & VENT PIPING ABOVE GRADE	SAN / V	2" & BELOW	ASTM D 1785 & 2665 PVC SCHEDULE 40 SOLID WALL PIPE	ASTM D 1784, 1785 & 2665 PVC SCHEDULE 40 SOLID WALL PIPE	ASTM D 2564 SOLVENT CEMENT, ASTM F 6, ASTM F 656 PRIMER						

PLUMBING PIPING ACCESSORIES SCHEDULE											
PIPING ACCESSORIES SPECIFICATIONS: 1. PROVIDE VALVES WITH UNIONS OR FLANGES AT EACH PIECE OF EQUIPMENT ARRANGED TO ALLOW SERVICE, MAINTENANCE AND EQUIPMENT REMOVAL WITHOUT SYSTEM SHUTDOWN. 2. TERMINATE COMPRESSED AIR EQUIPMENT DRAINS INTO OIL/WATER SEPARATOR PRIOR TO DISCHARGE TO FLOOR DRAIN. 3. PROVIDE PRESSURE GAUGE IN PIPING TEE WITH BALL SHUTOFF VALVE. SNUBBERS ARE NOT ACCEPTABLE. 4. PROVIDE PRESSURE GAUGES AT DISCHARGE OF EACH PRESSURE REDUCING VALVE, AIR FILTER, AIR DRYER, AIR COMPRESSOR, AND WHERE INDICATED. 5. PROVIDE UNIONS ADJACENT TO VALVES AND AT FINAL EQUIPMENT CONNECTIONS.											
TAG	COMPONENT	BOD		ACCEPTABLE MFR	PRESSURE RATING	SPECIFICATIONS					
PV-1	BALL VALVE, DCW/DHW, NPS 1/2 - 2 INCH	WATTS	LFB6000-SS LFB6001-SS	APOLLO, NIBCO, WATTS	300 PSIG @ 250 °F	MSS SP-110, NSF 61 FOR POTABLE WATER SERVICE, 2-PIECE, STANDARD PORT, BRONZE BODY, 316 SS BALL & STEM, PTFE OR TFE SEAT					

DUCT SCHEDULE AND SPECIFICATIONS

SPECIFICATIONS:

1) ALL DUCTWORK AND ACCESSORIES SHALL BE FABRICATED AND INSTALLED IN COMPLIANCE WITH THE LATEST ISSUE OF SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.

2) CONSTRUCT TEES, BENDS, AND ELBOWS WITH RADIUS OF NOT LESS THAN 1.0 TIMES THE WIDTH OF DUCT ON CENTER LINES.

3) WHERE RECTANGULAR ELBOWS ARE USED, PROVIDE AIR FOIL TYPE TURNING VANES.

4) INCREASE DUCT SIZES GRADUALLY, AND IN COMPLIANCE WITH FIGURE 4-7 OF SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.

BRANCH CONNECTIONS SHALL BE MADE WITH A 45 DEGREE ENTRY. STRAIGHT TEES ARE NOT ACCEPTABLE.

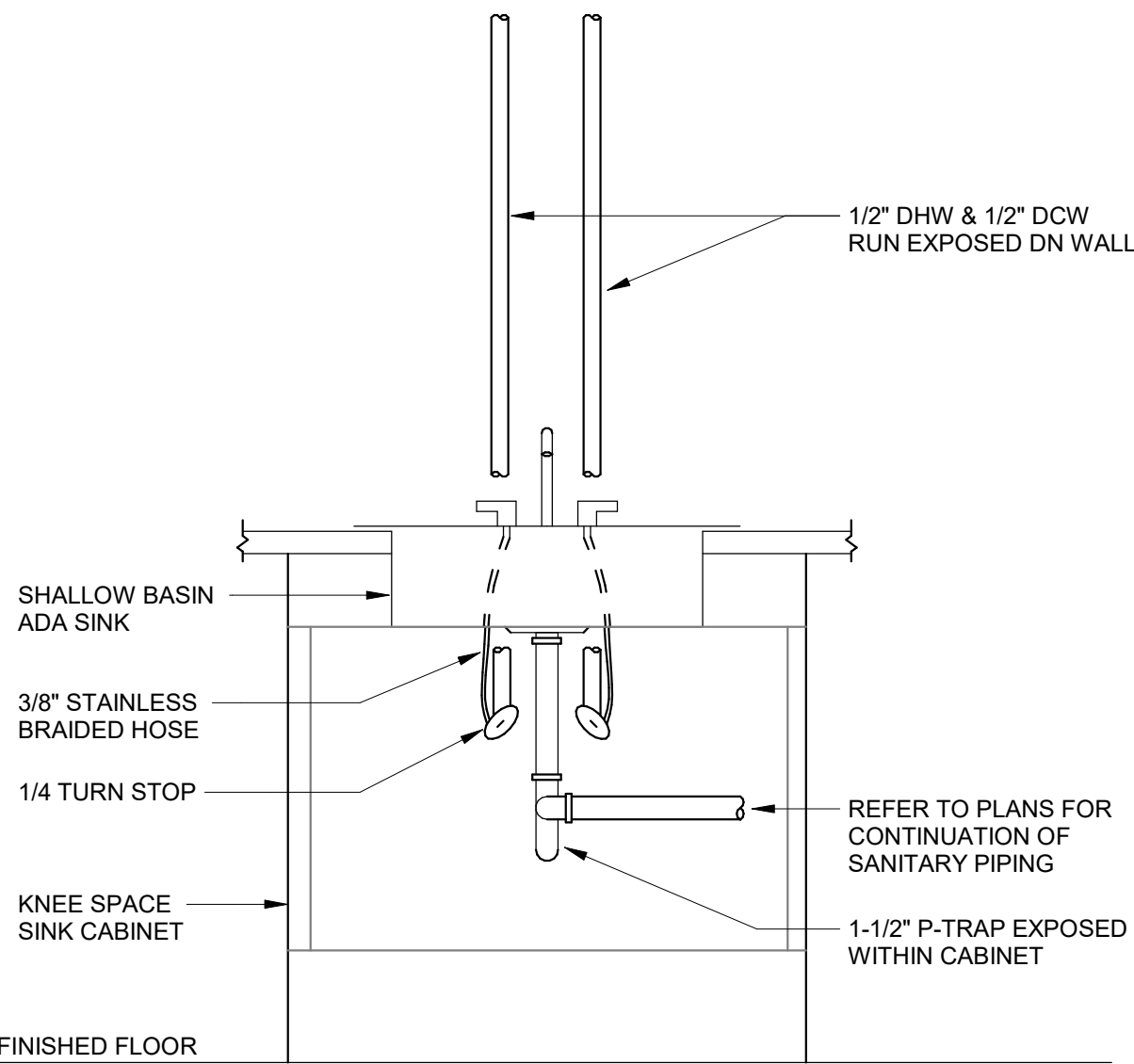
5) SEALANTS AND GASKETS: SURFACE BURNING CHARACTERISTICS SHALL HAVE A MAXIMUM FLAME-SPREAD INDEX OF 25, AND MAXIMUM SMOKE-DEVELOPED INDEX OF 50 WHEN TESTED TO UL 723.

6) ALL MANUAL BALANCING DAMPERS SHALL BE PROVIDED WITH LOCKING HAND QUADRANT.

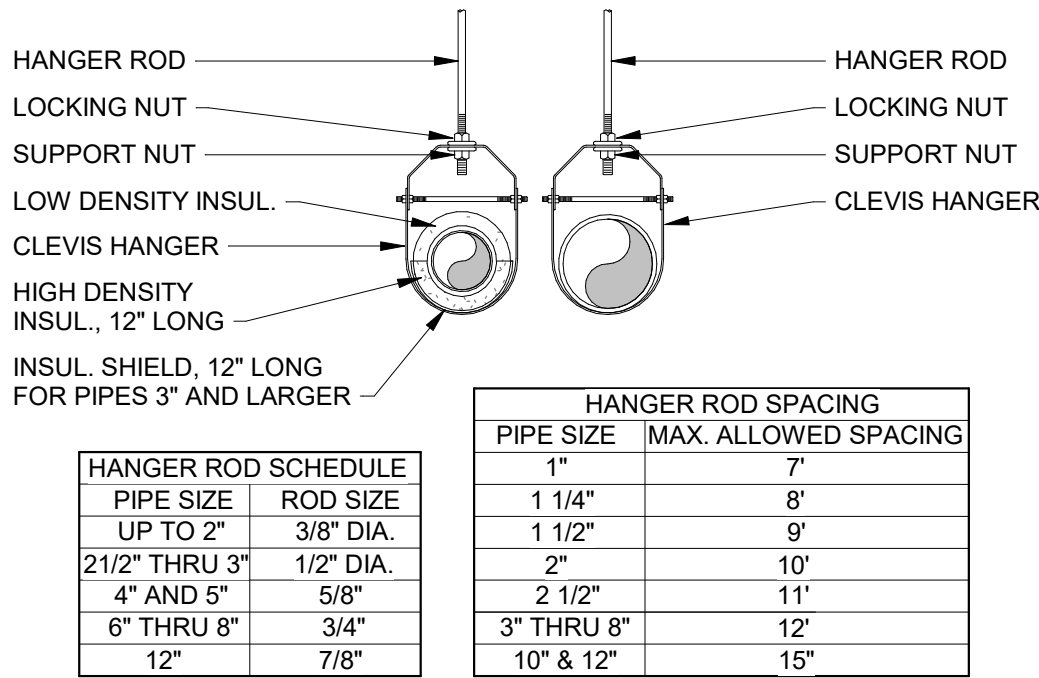
7) ACCESS DOORS (NON-GREASE DUCT) SHALL BE GALVANIZED SHEETMETAL WITH INSULATION FILL AND THICKNESS AS INDICATED FOR DUCT PRESSURE CLASS.

ACCESS DOORS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS: BOTH SIDES OF DUCT COILS, ADJACENT TO FIRE/SMOKE DAMPERS IN ORDER TO RESET OR REINSTALL FUSIBLE LINKS, AND AS INDICATED.

SYSTEM	LOCATION	SERVICE	PRESSURE CLASS	SEAL CLASS	LEAKAGE CLASS		MATERIAL	LINING	INSULATION				FINISH
					RECT	ROUND			R VALUE (MIN)	MATERIAL	FIELD JACKET	VAPOR RETARDE R	
SUPPLY AIR	EXPOSED / CONDITIONED SPACE	MAIN CONNECTION - VAV / AIR VALVE INLET	4" POS	A	6	3	G90 GALVANIZED	NONE	N/A	N/A	N/A	N/A	NONE
SUPPLY AIR	EXPOSED / CONDITIONED SPACE	VAV - OUTLET: RECTANGULAR,	2" POS	A	6	3	G90 GALVANIZED	NONE	N/A	N/A	N/A	N/A	NONE
SUPPLY AIR	EXPOSED / CONDITIONED SPACE	VAV - OUTLET: ROUND	2" POS	A	6	3	G90 GALVANIZED	NONE	N/A	N/A	N/A	N/A	NONE

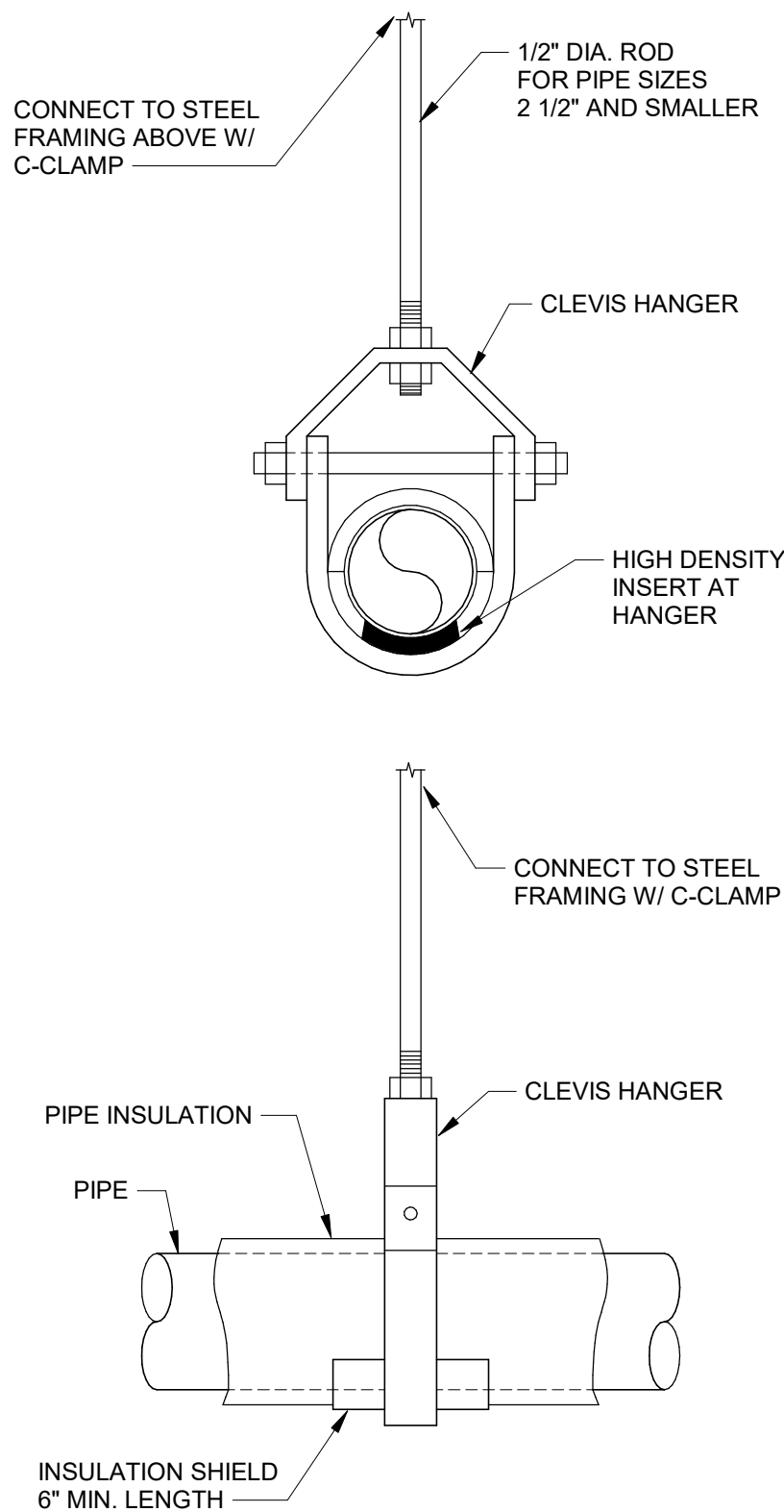


3 DROP-IN ADA SINK PLUMBING DETAIL
NOT TO SCALE

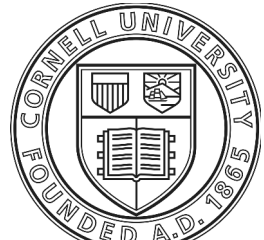


DESIGNER'S NOTE: PIPE SIZES SHOULD BE LEFT BLANK.

2 PLUMBING PIPE HANGER INSTALLATION DETAIL
NOT TO SCALE



1 PLUMBING PIPE HANGER WITH INSULATION
NOT TO SCALE



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ARCH/ CIVIL: *MB*

ELECTRICAL: *ATR*

MECHANICAL: *8/2*



REVISIONS			
1	02/19/26	ISSUE FOR DD REVIEW	
2	06/22/26	ISSUE FOR 95% REVIEW	
3	09/09/26	ISSUE FOR CONSTRUCTION	

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**MECHANICAL &
PLUMBING
SCHEDULES AND
DETAILS**

MP-501
17988015

ELECTRICAL ABBREVIATIONS	
AC	AIR CONDITIONER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC FAULT INTERRUPTER
AMM	ADDRESSABLE MONITOR MODULE
AOM	ADDRESSABLE OUTPUT MODULE
ARB	AUXILIARY RELAY BOARD
ATS	AUTOMATIC TRANSFER SWITCH
B	BASEBOARD
BKR	BREAKER
C	CONDUIT
CD	CANDELA
CKT	CIRCUIT
CR	CONTROL RELAY
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF STATION

ELECTRICAL ABBREVIATIONS	
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FSD	FIRE SMOKE DAMPER
GAA	GENERATOR ALARM ANNUNCIATOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
KW	KILOWATT
LC	LIGHTING CONTACTOR
LFMC	LIQUID TIGHT FLEXIBLE METALLIC CONDUIT
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUG ONLY
MTS	MANUAL TRANSFER SWITCH
NAC	NOTIFICATION APPLIANCE CIRCUIT
NIC	NOT IN CONTRACT
OE	OVERHEAD ELECTRIC

ELECTRICAL ABBREVIATIONS	
PC	PHOTOCELL
PM	PLUGMOLD
PP	POWER PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
RGS	RIGID GALVANIZED STEEL CONDUIT
SR	SURFACE RACEWAY
ST	SHUNT TRIP
TM	THERMAL MAGNETIC
TR	TRIMCASEWORK/WAINSCOTT
TSP	TWISTED SHIELDED PAIR
TYP	TYPICAL
UE	UNDERGROUND ELECTRIC
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT AMPS
WP	WATERPROOF

LIGHTING LEGEND	
	LIGHT POLE WITH LED LUMINAIRES, REFER TO PLANS FOR NUMBER AND CONFIGURATION OF HEADS
	1'x2' LUMINAIRE
	1'x4' LUMINAIRE
	2'x4' LUMINAIRE
	CEILING MOUNTED LUMINAIRE
	EM LIGHTING BATTERY UNIT
	COMBO EXIT SIGN/EM LIGHTING BATTERY UNIT
	SINGLE FACE, WALL MOUNT EXIT SIGN
	DOUBLE FACE, WALL MOUNT EXIT SIGN
	SINGLE FACE, CEILING MOUNT EXIT SIGN
	DOUBLE FACE, CEILING MOUNT EXIT SIGN
	WIRELESS OCCUPANCY SENSOR
	WIRELESS DAYLIGHT SENSOR
	LIGHT SWITCH: 3 = 3-WAY SWITCH 4 = 4-WAY SWITCH D = DIMMER SWITCH O = WALL SWITCH OCCUPANCY SENSOR V = WALL SWITCH VACANCY SENSOR W = WIRELESS SWITCH S = WIRELESS SCENE SWITCH
	EMERGENCY LIGHT FIXTURE

LINETYPES LEGEND	
	EXISTING TO REMAIN
	DEMOLITION / TO BE RELOCATED
	TO BE PROVIDED
	UNDERGROUND ELECTRIC
	UNDERGROUND LIGHTING
	UNDERGROUND TELCO
	OVERHEAD ELECTRIC

ELECTRICAL LEGEND	
	PANELBOARD
	JUNCTION BOX
	DUPLEX RECEPTACLE: R = INSTALLED IN BASEBOARD TR = INSTALLED IN WOOD TRIM CASEWORK/WAINSCOTT SR = SURFACE RACEWAY WP = WEATHERPROOF AC = AIR CONDITIONER EM = EMERGENCY
	DUPLEX RECEPTACLE WITH GFCI PROTECTION
	DUPLEX RECEPTACLE WITH AFCI PROTECTION
	DOUBLE DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	SPECIAL RECEPTACLE
	MOTOR
	MOTOR STARTER
	HOMERUN TO PANEL P-1A, CIRCUIT #12. FED FROM 20A - 1P BREAKER IS INTENDED UNLESS NOTED OTHERWISE. RUN GREEN WIRE GROUND FOR ALL CIRCUITS. PROVIDE ONE GROUND PER CIRCUIT.
	HARDWIRED EQUIPMENT CONNECTION
	EMERGENCY POWER OFF (EPO)
	GROUND ROD ELECTRODE
	SAFETY SWITCH (NON-FUSED)
	SAFETY SWITCH (FUSED)
	CARD READER

IT/ COMMUNICATIONS LEGEND	
	DATA RECEPTACLE
	X = NUMBER OF CABLES TO BE PROVIDED
	WIRELESS ACCESS POINT OUTLET- CEILING MTD.
	WIRELESS ACCESS POINT OUTLET- WALL MTD.

MOUNTING HEIGHTS		
CARD READER	48"	TOP OF BOX
LIGHT SWITCH	48"	TOP OF BOX
RECEPTACLE	18"	TOP OF BOX
DATA OUTLET	18"	TOP OF BOX
TV OUTLET	84"	TOP OF BOX
PHONE OUTLET	48"	TOP OF BOX
SAFETY SWITCH	60"	CENTERLINE OF HANDLE
MOTOR STARTER	60"	CENTERLINE OF HANDLE
PANELBOARD	72"	TOP OF PANELBOARD
MANUAL PULL STATION	48"	OPERABLE HANDLE
NOTIFICATION APPLIANCE	80"	BOTTOM OF LENS
DOOR HOLD OPEN		COORDINATE IN FIELD
EM BATTERY UNIT	96"	BOTTOM OF UNIT
EM REMOTE UNIT	102"	BOTTOM OF UNIT
EXIT SIGN	96"	BOTTOM OF UNIT

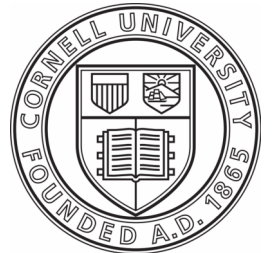
FIRE ALARM LEGEND	
	FIRE ALARM CONTROL PANEL
	BATTERY CABINET
	MUXPAD
	REMOTE ANNUNCIATOR
	NAC PANEL
	MANUAL PULL STATION
	SMOKE DETECTOR: D = DUCT SMOKE DETECTOR R = RELAY BASE BR = BEAM RECEIVER BT = BEAM TRANSMITTER SB = SOUNDER BASE
	HEAT DETECTOR: F = FIXED TEMPERATURE R = RATE OF RISE R/F = COMBINATION RISE/FIXED TEMPERATURE
	CARBON MONOXIDE DETECTOR
	WATER FLOW SWITCH
	TAMPER SWITCH
	ADDRESSABLE MODULE
	SUPPRESSION SYSTEM
	COMBO AV NOTIFICATION APPLIANCE: XXcd = CANDELA C = CEILING
	VISUAL NOTIFICATION APPLIANCE: XXcd = CANDELA C = CEILING
	AUDIBLE NOTIFICATION APPLIANCE
	MAGNETIC DOOR HOLDER

ELECTRICAL SCOPE OF WORK	
1.0	PROVIDE NEW LIGHTING, LIGHTING CONTROLS, WIRING DEVICES, CORD REELS, AND BRANCH CIRCUITRY.
2.0	PROVIDE A NEW PANELBOARD.
3.0	PROVIDE ALL TELECOM DEVICES, CABLES, TERMINATIONS, AND TESTING. COORDINATE ALL TELECOM WORK WITH CIT.
4.0	PROVIDE ALL FIRE ALARM DEVICES, CABLES, TERMINATIONS, AND TESTING. COORDINATE ALL TELECOM WORK WITH CORNELL SHOPS.
5.0	PROVIDE ALL CARD ACCESS DEVICES, CABLES, TERMINATIONS, AND TESTING. COORDINATE ALL ACCESS CONTROL WORK WITH CORNELL SHOPS.

GENERAL ELECTRICAL NOTES	
1.0	ELECTRICAL SCHEMATICS INDICATED ON CONTRACT DOCUMENTS ARE DIAGRAMMATIC. IT IS NOT THE INTENT TO SHOW EXACT OR MOST EFFICIENT ROUTING. VERIFY ALL DIMENSIONS AND FIELD CONDITIONS ON SITE. ANY CONFLICTS BETWEEN CONSTRUCTION DOCUMENTS AND FIELD CONDITIONS SHALL BE BROUGHT TO CORNELL'S PROJECT MANAGER FOR RESOLUTION BEFORE WORK PROCEEDS.
2.0	ASSURE PUBLIC AND WORKER SAFETY AT ALL TIMES. PROTECT ADJOINING AREAS FROM DAMAGE AND DUST. REMOVE ALL DEBRIS FROM SITE AND DISPOSE OF WASTE MATERIAL IN A SAFE MANNER. KEEP THE PREMISES FREE OF DEBRIS FROM THE EXECUTION OF WORK. DELIVER A FINAL PRODUCT THAT IS CLEAN AND OPERABLE.
3.0	FIRE STOP ELECTRICAL PENETRATIONS THROUGH FIRE RATED WALLS AND/OR FLOORS WITH MATERIAL EQUAL IN RATING TO THE CONSTRUCTION OF THE MATERIAL PENETRATED.
4.0	WORK SHALL BE COMPLETED AS SPECIFIED AND INDICATED ON CONTRACT DOCUMENTS. ANY SUGGESTED ALTERNATE MANUFACTURER OR METHOD OF INSTALLATION SHALL BE SUBMITTED TO PROJECT ENGINEER FOR APPROVAL PRIOR TO ORDERING ANY MATERIALS OR COMMENCING EXECUTION OF WORK.
5.0	GROUNDING SHALL BE IN STRICT ACCORDANCE WITH NEC ARTICLE 250. PROVIDE EQUIPMENT GROUND CONDUCTOR WITH EACH BRANCH CIRCUIT INDICATED ON CONTRACT DOCUMENTS. EQUIPMENT GROUND CONDUCTOR SHALL BE ROUTED WITH ASSOCIATED PHASE CONDUCTORS.
6.0	PROVIDE A NEW TYPED PANELBOARD DIRECTORY FOR EACH PANELBOARD. LABEL ALL NEW DEVICE FACEPLATES WITH SOURCE AND CIRCUIT NUMBER. PROVIDE PERMANENT LABEL ON SWITCHING DEVICES INDICATING EQUIPMENT SERVICE AND INVENTORY NUMBERS. COORDINATE EQUIPMENT INVENTORY NUMBERS WITH CORNELL UNIVERSITY'S MECHANICAL SHOP. 607-255-8667.

7.0	CIRCUITS RATED 20-AMP, 120 VOLT SHALL CONTAIN SEPARATE NEUTRAL CONDUCTORS.
8.0	CONDUCTORS SHALL BE A MINIMUM OF 12AWG, STRANDED COPPER, 600VAC, 90 DEGREE C, TYPE THHN/THWN-2 FOR DRY AREAS AND XHHW-2 FOR WET AREAS.
9.0	CONDUITS SHALL BE A MINIMUM OF 3/4 INCHES DIAMETER. CONDUITS SHALL BE ELECTRICAL METALLIC TUBING (EMT) AND SURFACE MOUNTED UNLESS NOTED OTHERWISE.
10.0	AIC RATING OF NEW CIRCUIT BREAKERS SHALL MATCH RATING OF RESPECTIVE PANELBOARD. SIZE AS INDICATED.
11.0	PROVIDE PULL STRING THROUGH NEW CONDUIT AND BOXES. PROVIDE SUPPORT HANGERS FOR CONDUIT AS NEEDED.
12.0	INSTALL RACEWAY SYSTEMS ENSURING PROPER ACCESS TO EQUIPMENT AND DEVICES AND WITH SUFFICIENT SPACE TO PERFORM ROUTINE MAINTENANCE AND REPAIR. RACEWAYS THAT ARE NOT INSTALLED WITH THIS REQUIREMENT IN MIND SHALL BE RELOCATED AT NO EXPENSE TO THE UNIVERSITY UNTIL DEFICIENCIES ARE CORRECTED.

GENERAL ELECTRICAL DEMOLITION NOTES	
1.0	ELECTRICAL EQUIPMENT SHOWN DASHED ON DEMOLITION DRAWINGS, INCLUDING ASSOCIATED ANCHORS, SUPPORTS, STRAPS, BOXES, FITTINGS, AND OTHER APPURTENANCES NOT SHOWN, SHALL BE DISCONNECTED AND REMOVED. REMOVE ASSOCIATED BRANCH CIRCUITRY TO SOURCE, UNLESS NOTED OTHERWISE.
2.0	REUSE EXISTING RACEWAYS AND DEVICE BACKBOXES WHEN INSTALLATION OF NEW SYSTEM COMPONENTS DOES NOT INTERFERE.
3.0	PROVIDE JUNCTION BOXES, RACEWAYS, AND WIRING TO MODIFY/EXTEND EXISTING SYSTEMS AND CIRCUITS FED DOWNSTREAM OF ELECTRICAL EQUIPMENT SHOWN TO BE DEMOLISHED.
4.0	CUT DEMOLISHED CONDUITS INSTALLED THRU WALLS AND FLOORS FLUSH WITH THE SURFACE AND PATCH PENETRATIONS (FIRESTOP IF LOCATED ON A FIRE RATED SURFACE). PATCH AND PAINT SURFACES IN EXPOSED AREAS TO MATCH SURROUNDING MATERIALS, FINISHES, AND COLORS.
5.0	PROVIDE BLANK COVERPLATES ON UNUSED BACKBOXES REMAINING FROM DEMOLITION NOT SPECIFIED TO BE INFILLED.
6.0	EXISTING EQUIPMENT SHOWN TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION.



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ARCH/ CIVIL: *MB*

ELECTRICAL: *ATR*

MECHANICAL: *9F*



ERIK PAUL ESHELMAN
084093
PROFESSIONAL ENGINEER

REVISIONS	
1	02/19/26 ISSUE FOR DD REVIEW
2	06/22/26 ISSUE FOR 95% CD REVIEW
3	09/26/26 ISSUE FOR CONSTRUCTION

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B52 RARE
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DRAWN:	CMW

**GENERAL NOTES
AND SYMBOL
LEGENDS**

E-001
17988015

ELECTRICAL SUBMITTAL SCHEDULE						
MATERIAL	SCHEDULE/SHOP DWGS.	PRODUCT DATA	SAMPLES	INSPECTIONS & TESTS	O&M DATA	WARRANTIES
LUMINAIRES		X				
LIGHTING CONTROLS		X				
PANELBOARD		X				
WIRING DEVICES		X				
CORD REELS		X				
LOW-VOLTAGE WIRING		X				
BOXES AND RACEWAYS		X				
CAT6A CABLES, JACKS, AND FACEPLATES		X				
FIRE ALARM DEVICES AND CABLES		X				
ACCESS CONTROL SYSTEM		X				

LUMINAIRE SCHEDULE									
TYPE	DESCRIPTION	MOUNTING	SIZE	MANUFACTURER	CATALOG NO.	VOLTAGE	WATTAGE	FINISH	
A1	CHAIN-HUNG LED LINEAR BAY WITH OCC SENSOR	CHAIN	5" x 48"	METALUX	4MB - 2SL - A - UNV - L835 - CD - WLS - AYC-CHAIN/SET-U	120/277	14	WHITE	
A2	CHAIN-HUNG LED LINEAR BAY	CHAIN	5" x 48"	METALUX	4MB - 2SL - A - UNV - L835 - CD - AYC-CHAIN/SET-U	120/277	14	WHITE	
B1	CHAIN-HUNG LED LINEAR BAY WITH OCC SENSOR	CHAIN	5" x 24"	METALUX	2MB - 2SL - A - UNV - L835 - CD - WLS - AYC-CHAIN/SET-U	120/277	15	WHITE	
C1	CHAIN-HUNG LED LINEAR BAY	CHAIN	5" x 48"	METALUX	4MB - 2SL - RND - UNV - L835 - CD - AYC-CHAIN/SET-U	120/277	14	WHITE	
C2	CHAIN-HUNG LED LINEAR BAY	CHAIN	5" x 48"	METALUX	4MB - 2SL - RND - UNV - L835 - CD - WLS - AYC-CHAIN/SET-U	120/277	14	WHITE	
X1	AC ONLY EXIT SIGN	WALL/CEILING/END	8" x 12"	SURE-LITES	APX8 - R	120/277	1.3	WHITE	

SPECIFICATIONS

1.01 LOW-VOLTAGE ELECTRICAL CONDUCTORS

- PROVIDE COPPER CONDUCTORS ONLY. ALUMINUM CONDUCTORS ARE NOT ACCEPTABLE FOR THIS PROJECT. CONDUCTOR SIZES INDICATED ARE BASED ON COPPER.
- COPPER CONDUCTORS: SOFT DRAWN ANNEALED, 98 PERCENT CONDUCTIVITY, UNCOATED COPPER CONDUCTORS COMPLYING WITH ASTM B3, ASTM B8, OR ASTM B787/B787M UNLESS OTHERWISE INDICATED.
- MINIMUM CONDUCTOR SIZE: BRANCH CIRCUITS: 12 AWG.
- CONDUCTOR COLOR CODING: COLOR CODE CONDUCTORS AS INDICATED UNLESS OTHERWISE REQUIRED BY THE AUTHORITY HAVING JURISDICTION. MAINTAIN CONSISTENT COLOR CODING THROUGHOUT PROJECT.
 - COLOR CODING METHOD: INTEGRALLY COLORED INSULATION.
 - 480Y/277 V, 3 PHASE, 4 WIRE SYSTEM:
PHASE A: BROWN.
PHASE B: ORANGE.
PHASE C: YELLOW.
NEUTRAL/GROUNDED: GRAY.
 - 208Y/120 V, 3 PHASE, 4 WIRE SYSTEM:
PHASE A: BLACK.
PHASE B: RED.
PHASE C: BLUE.
NEUTRAL/GROUNDED: WHITE.
 - EQUIPMENT GROUND, ALL SYSTEMS: GREEN.
- DESCRIPTION: SINGLE CONDUCTOR INSULATED WIRE. CONDUCTOR STRANDING: FEEDERS AND BRANCH CIRCUITS: ALL SIZES - STRANDED.
- INSULATION VOLTAGE RATING: 600 V.
- INSTALLED INDOORS: TYPE THHN/THWN OR THHN/THWN-2, EXCEPT AS INDICATED BELOW.
- INSTALLED UNDERGROUND: TYPE XHHW-2.

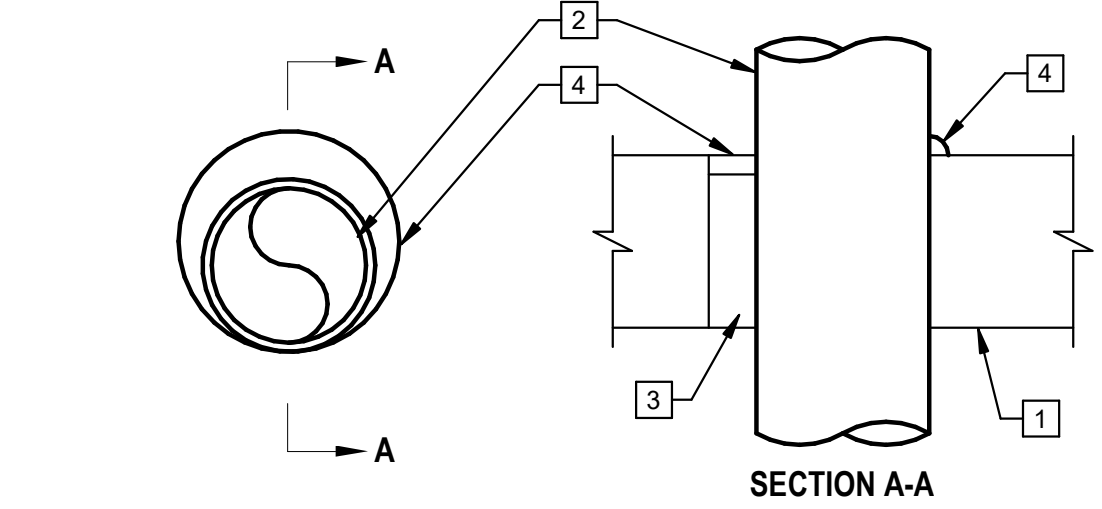
1.02 PANELBOARDS AND ENCLOSED CIRCUIT BREAKERS

- PANELBOARDS COMPLYING WITH NEMA PB 1, POWER AND FEEDER DISTRIBUTION TYPE, CIRCUIT BREAKER TYPE, AND LISTED AND LABELED AS COMPLYING WITH UL 67; RATINGS, CONFIGURATIONS AND FEATURES AS INDICATED ON THE DRAWINGS.
- CONDUCTOR TERMINATIONS:
 - MAIN AND NEUTRAL LUG MATERIAL: COPPER, SUITABLE FOR TERMINATING COPPER CONDUCTORS ONLY.
 - MAIN AND NEUTRAL LUG TYPE: MECHANICAL.
 - BUSSING: PHASE AND NEUTRAL BUS MATERIAL: COPPER, GROUND BUS MATERIAL: COPPER.
- CIRCUIT BREAKERS:
 - PROVIDE BOLT-ON TYPE OR PLUG-IN TYPE SECURED WITH LOCKING MECHANICAL RESTRAINTS.
 - PROVIDE THERMAL MAGNETIC CIRCUIT BREAKERS WITH ELECTRONIC TRIP UNITS UNLESS OTHERWISE INDICATED.
- ENCLOSURES:
 - PROVIDE SURFACE-MOUNTED ENCLOSURES UNLESS OTHERWISE INDICATED.
 - FRONTS: PROVIDE DOOR-IN-DOOR TRIM WITH HINGED COVER FOR ACCESS TO LOAD TERMINALS AND WIRING GUTTERS, AND SEPARATE LOCKABLE HINGED DOOR WITH CONCEALED HINGES FOR ACCESS TO OVERCURRENT PROTECTIVE DEVICE HANDLES WITHOUT EXPOSING LIVE PARTS.
 - PROVIDE CLEAR PLASTIC CIRCUIT DIRECTORY HOLDER MOUNTED ON INSIDE OF DOOR.
- MOLDED CASE CIRCUIT BREAKERS:
 - QUICK-MAKE, QUICK-BREAK, OVER CENTER TOGGLE, TRIP-FREE, TRIP-INDICATING CIRCUIT BREAKERS LISTED AND LABELED AS COMPLYING WITH UL 489, AND COMPLYING WITH FS W-C-375 WHERE APPLICABLE; RATINGS, CONFIGURATIONS, AND FEATURES AS INDICATED ON THE DRAWINGS.
 - PROVIDE CIRCUIT BREAKERS WITH INTERRUPTING CAPACITY AS REQUIRED TO PROVIDE THE SHORT CIRCUIT CURRENT RATING INDICATED, BUT NOT LESS THAN THE SHORT CIRCUIT CURRENT RATING INDICATED.
 - CONDUCTOR TERMINATIONS: PROVIDE MECHANICAL LUGS UNLESS OTHERWISE INDICATED. LUG MATERIAL: COPPER, SUITABLE FOR TERMINATING COPPER CONDUCTORS ONLY.
 - THERMAL MAGNETIC CIRCUIT BREAKERS: FOR EACH POLE, FURNISH THERMAL INVERSE TIME TRIPPING ELEMENT FOR OVERLOAD PROTECTION AND MAGNETIC INSTANTANEOUS TRIPPING ELEMENT FOR SHORT CIRCUIT PROTECTION.
 - ELECTRONIC TRIP CIRCUIT BREAKERS: FURNISH SOLID STATE, MICROPROCESSOR-BASED, TRUE RMS SENSING TRIP UNITS. PROVIDE THE FOLLOWING FIELD-ADJUSTABLE TRIP RESPONSE SETTINGS: LONG TIME PICKUP: ADJUSTABLE BY REPLACING INTERCHANGEABLE TRIP UNIT OR BY SETTING DIAL, LONG TIME DELAY, SHORT TIME PICKUP AND DELAY, INSTANTANEOUS PICKUP.
 - MULTI-POLE CIRCUIT BREAKERS: FURNISH WITH COMMON TRIP FOR ALL POLES.
- ACCEPTABLE MANUFACTURERS: SQUARE D, ABB, EATON.

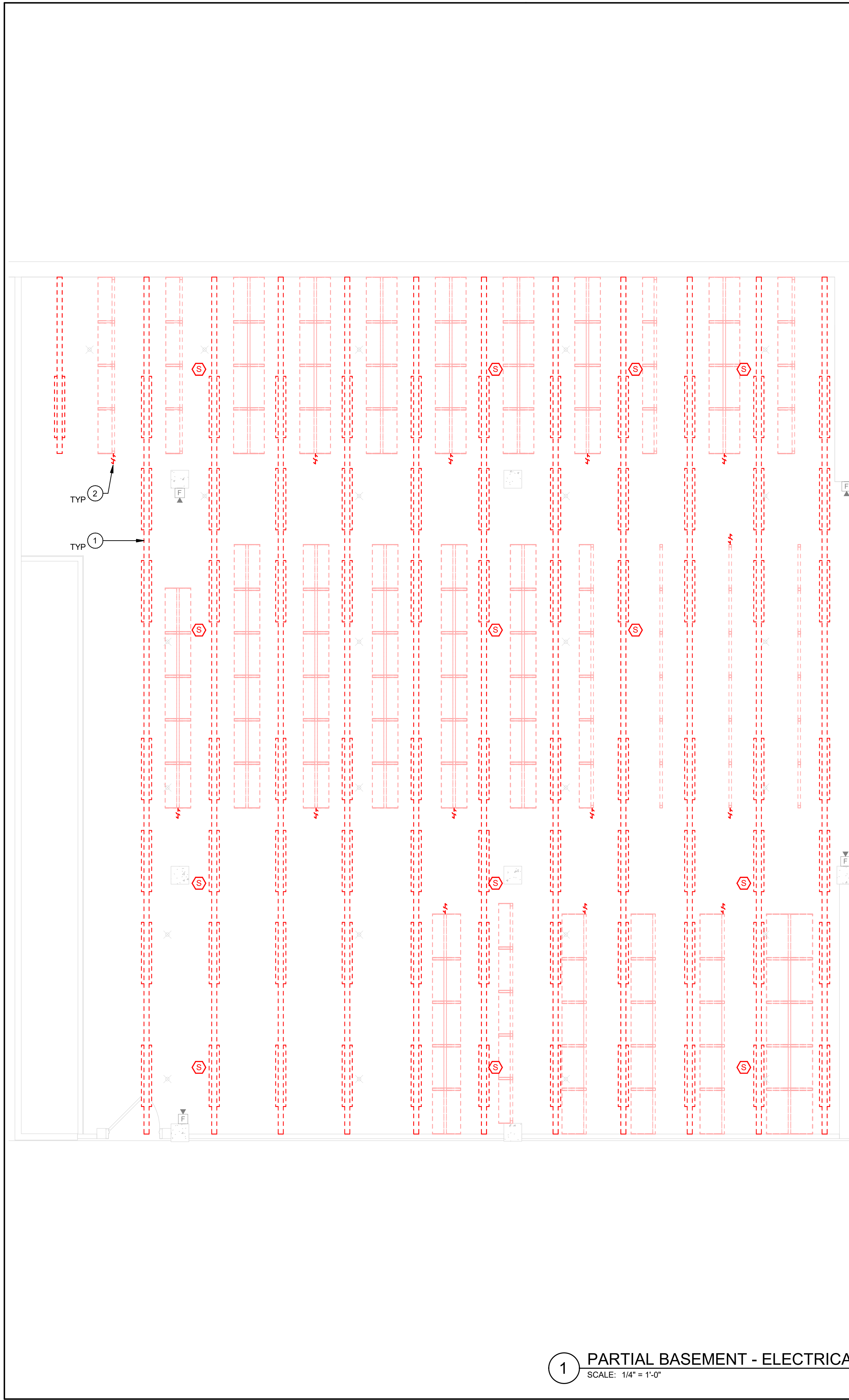
#	FIRESTOP PENETRATION NOTES
1	WALL ASSEMBLY: WALL CONSTRUCTION IS UL LISTED CONCRETE BLOCK. MAXIMUM DIAMETER OF OPENING IS 12-IN.
2	THROUGH PENETRANTS: ONE METALLIC CONDUIT TO BE INSTALLED WITHIN THE FIRESTOP SYSTEM. CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE ANNULAR SPACE SHALL BE 0-IN. (POINT CONTACT) TO MAX 1-1/4-IN. THE FOLLOWING TYPES AND SIZES OF CONDUITS MAY BE USED: CONDUIT - NOM 4-IN. DIA (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT.
3	PACKING MATERIAL: MIN 3-IN. THICKNESS OF MIN 4-PCF MINERAL WOOL BATT INSULATION FOR NOM 4-IN. DIAM (AND SMALLER) CONDUITS AND A MIN 4-IN. THICKNESS OF MIN 4-PCF MINERAL WOOL BATT INSULATION FOR CONDUIT GREATER THAN NOM 4-IN. DIA. FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM BOTH SURFACES OF WALL TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
4	FILL, VOID OR CAVITY MATERIAL: SEALANT - MIN 1/2-IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL AT THE POINT OF CONTACT LOCATION BETWEEN CONDUIT AND CONCRETE. A MIN 1/2-IN. DIA BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/CONDUIT INTERFACE ON BOTH SURFACES OF WALL. W RATING APPLIES ONLY WHEN CFS-S SIL GG, CP601S, CP604 SEALANT OR FS-ONE MAX INTUMESCENT SEALANT IS USED. FOR W RATING WHEN FS-ONE MAX IS USED, PACKING MATERIAL TO BE A MIN 4-IN. THICKNESS OF MIN 4-PCF MINERAL WOOL BATT INSULATION.

SYSTEM NO. C-AJ-1149

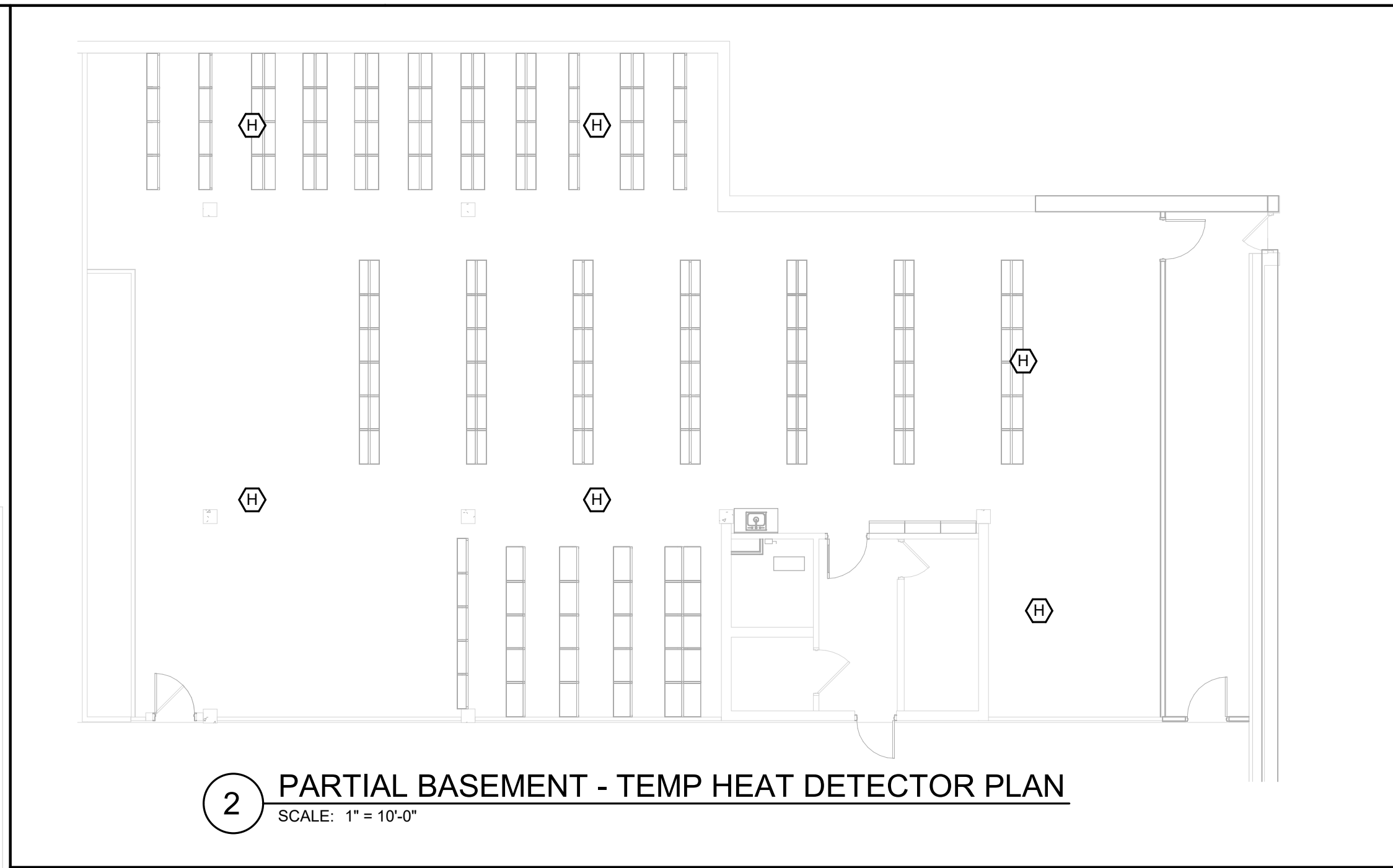
ANSI/UL1479 (ASTM E814)		CAN/ULC S115	
F RATING — 2 HR		F RATING — 2 HR	
T RATING — 0 HR		FT RATING — 0 HR	
L RATING AT AMBIENT — LESS THAN 1 CFM/SQ FT		FH RATING — 2 HR	
L RATING AT 400 F — 4 CFM/SQ FT		FTH RATING — 0 HR	
W RATING — CLASS 1 (SEE ITEM 4)		L RATING AT AMBIENT — LESS THAN 1 CFM/SQ FT	
		L RATING AT 400 F — 4 CFM/SQ FT	



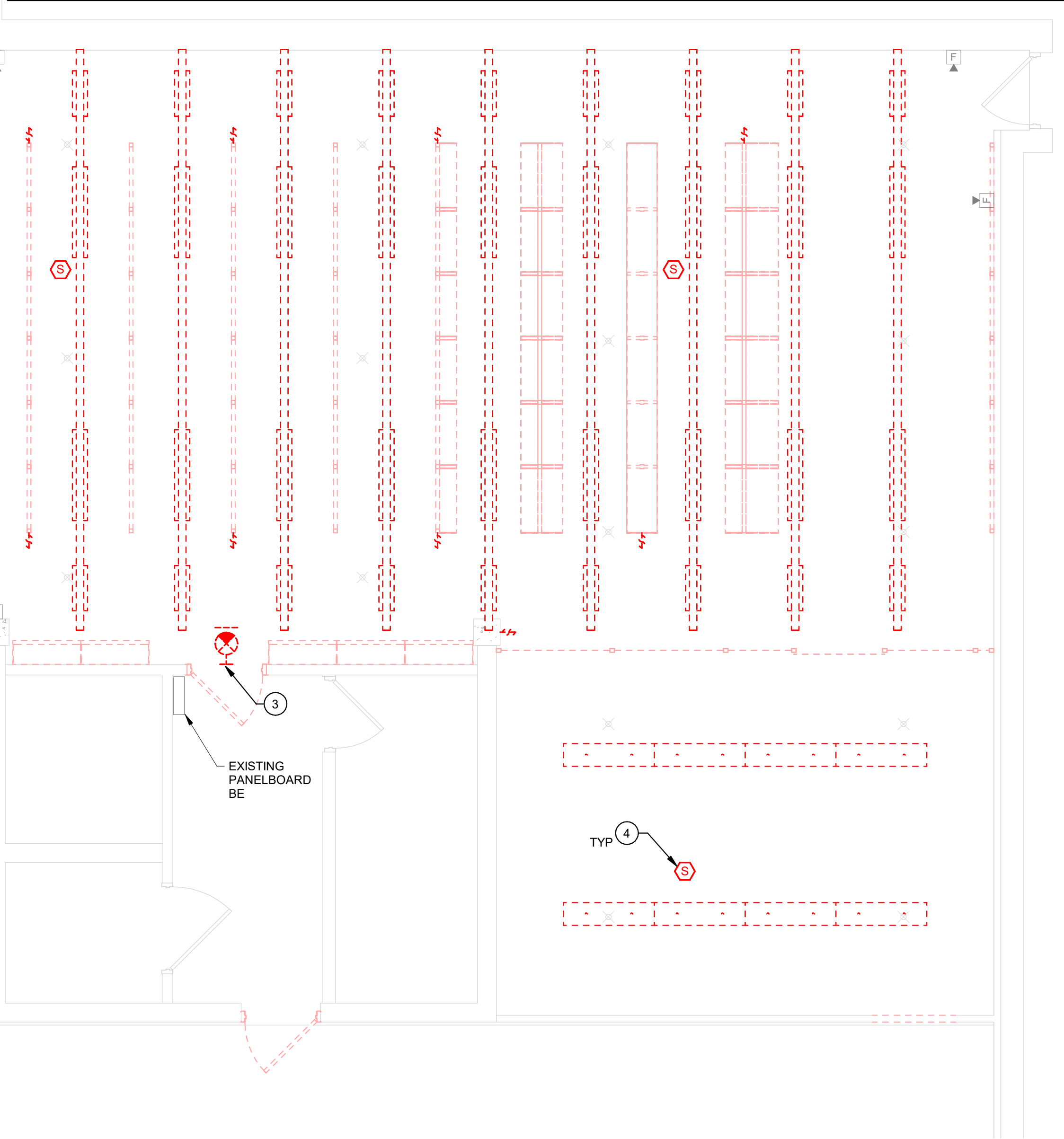
1 2-HOUR WALL FIRESTOP PENETRATION DETAIL
NOT TO SCALE



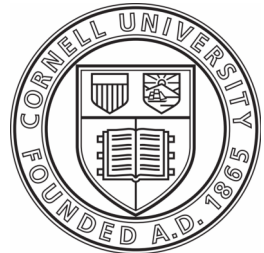
1 PARTIAL BASEMENT - ELECTRICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



2 PARTIAL BASEMENT - TEMP HEAT DETECTOR PLAN
SCALE: 1" = 10'-0"



- # E-101 KEYED DEMOLITION NOTES
- EXISTING LUMINAIRES ARE INSTALLED ON PAINTED, METAL WIREWAYS WHICH ARE SUSPENDED FROM THE BOOKSHELVES AND CEILING AS SHOWN. REMOVE ALL WIREWAYS AND LUMINAIRES, INCLUDING ALL BRANCH CIRCUIT AND CONTROLS WIRING TO EXISTING PANELBOARD BE.
 - REMOVE ALL LIGHT SWITCHES AND BRANCH CIRCUIT WIRING. WIRING IS ROUTED WITHIN THE BOOKSHELF METAL CHANNELS.
 - REMOVE EXIT SIGN, TAG GENERATOR EM LIGHTING BRANCH CIRCUITRY FOR REUSE, AND PROTECT DURING CONSTRUCTION.
 - REMOVE SMOKE DETECTORS AND SAVE FOR REINSTALLATION. PROTECT SMOKE DETECTOR WIRING DURING CONSTRUCTION. PROVIDE TEMPORARY HEAT DETECTORS AS SHOWN ON DETAIL #2/E-101. EXISTING FIRE ALARM SYSTEM IS AN ADDRESSABLE FCI E3. CIRCUIT WITH 2#16AWG FPLP IN 3/4" EMT TO THE NEAREST SLG. ONCE CONSTRUCTION IS COMPLETE, REMOVE THE TEMPORARY HEAT DETECTORS AND REINSTALL THE SMOKE DETECTORS. PROVIDE ALL FIRE ALARM PROGRAMMING AND TESTING AND COORDINATE ALL FIRE ALARM WORK WITH CORNELL EHS.



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ARCH/ CIVIL: *AW*

ELECTRICAL: *TR*

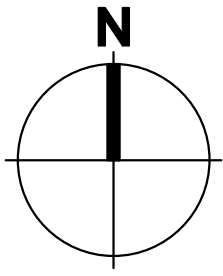
MECHANICAL: *8/2*



ERIK PAUL ESHELMAN
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N

0' 5' 10' 20'

SCALE: 1" = 10'-0"

0' 2' 4' 8'

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

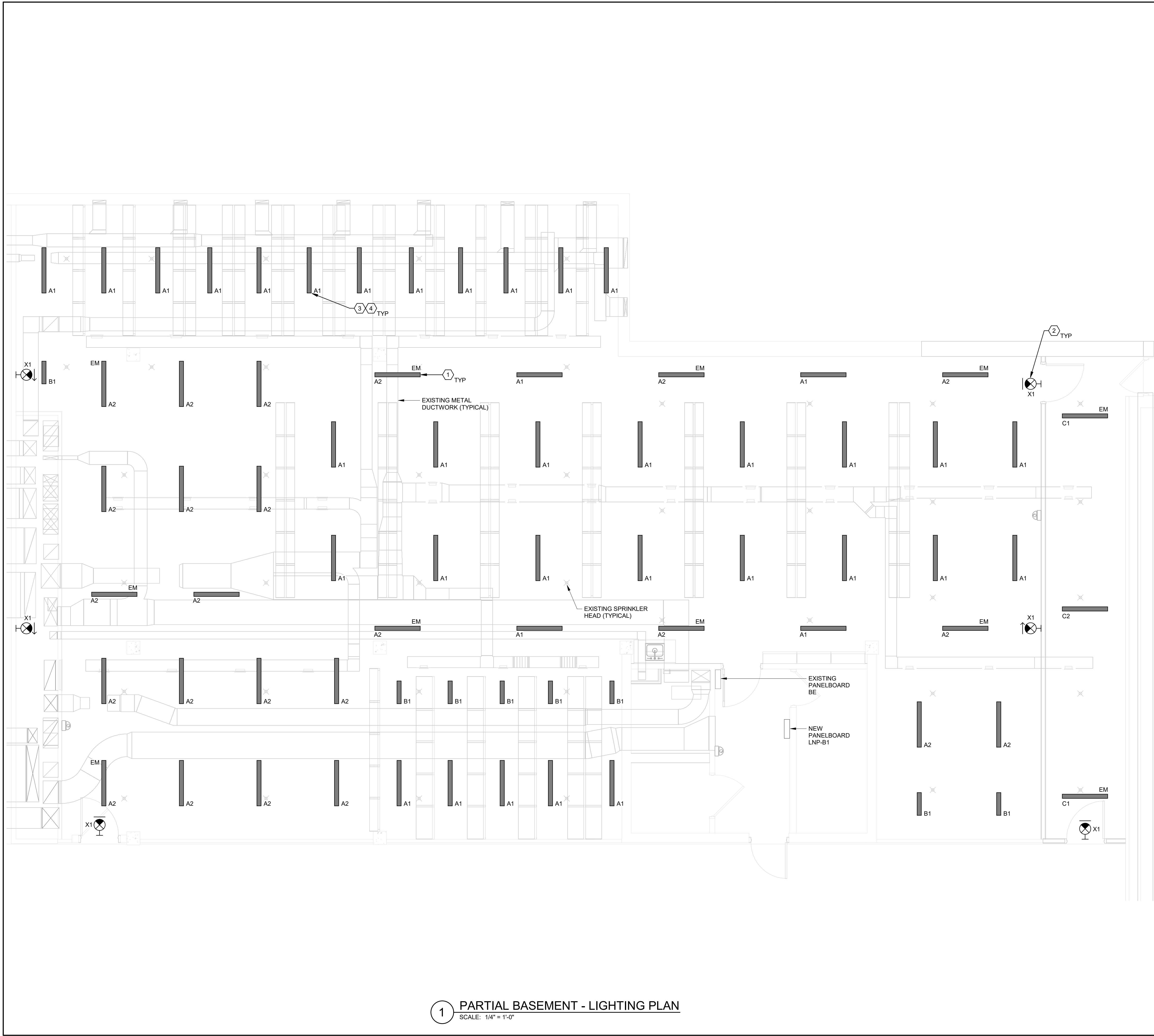
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DRAWN:	CMW

**ELECTRICAL
DEMOLITION &
RENOVATION
PLANS**

E-101
17988015



1 PARTIAL BASEMENT - LIGHTING PLAN
SCALE: 1/4" = 1'-0"

E-103 KEYED RENOVATION NOTES

1

MODIFY/EXTEND THE EXISTING EMERGENCY LIGHTING BRANCH CIRCUIT SAVED FROM DEMOLITION TO EACH LUMINAIRE WITH THE 'EM' DESIGNATION. CIRCUIT WITH 2#12, 1#12G, 3/4" EMT. EMERGENCY LIGHTING RACEWAYS SHALL BE SEPARATE AND SEGREGATED FROM ALL OTHER BRANCH CIRCUITRY. EMERGENCY LIGHTING SHOWN SHALL BE UNSWITCHED AND SHALL OPERATE AS NIGHTLIGHTS.

2

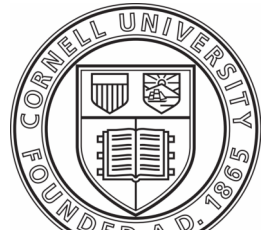
MODIFY/EXTEND THE EXISTING EMERGENCY LIGHTING BRANCH CIRCUIT SAVED FROM DEMOLITION TO EACH EXIT SIGN. CIRCUIT WITH 2#12, 1#12G, 3/4" EMT. EMERGENCY LIGHTING RACEWAYS SHALL BE SEPARATE AND SEGREGATED FROM ALL OTHER BRANCH CIRCUITRY.

3

CIRCUIT LUMINAIRES WITH 2#12, 1#12G, 3/4" EMT. REFER TO DRAWING E-104 FOR CIRCUITING AND CONTROLS.

4

SUSPEND BOTTOM OF ALL LUMINAIRES AT 8'-0" AFF. FOR ALL LUMINAIRES SHOWN TO BE INSTALLED BELOW THE EXISTING METAL DUCTWORK, PROVIDE GALVANIZED STRUT BELOW THE DUCTWORK AND ANCHOR TO THE CONCRETE CEILING WITH 3/8" THREADED RODS AT EACH LOCATION. DO NOT HANG LUMINAIRES FROM THE DUCTWORK OR PIPING INSTALLED AT THE CEILING. LUMINAIRE LOCATIONS SHOWN ARE DIAGRAMMATIC - CONTRACTOR TO COORDINATE EXACT LUMINAIRE LOCATIONS IN THE FIELD. IN THE EVENT A LUMINAIRE CANNOT BE PLACED AS SHOWN, COORDINATE ALL RELOCATIONS AND LUMINAIRE HEIGHTS WITH CORNELL.



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ARCH/ CIVIL: *AW*

ELECTRICAL: *ATB*

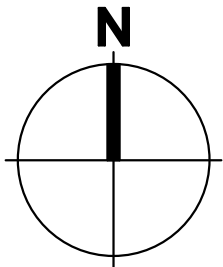
MECHANICAL: *9/2*



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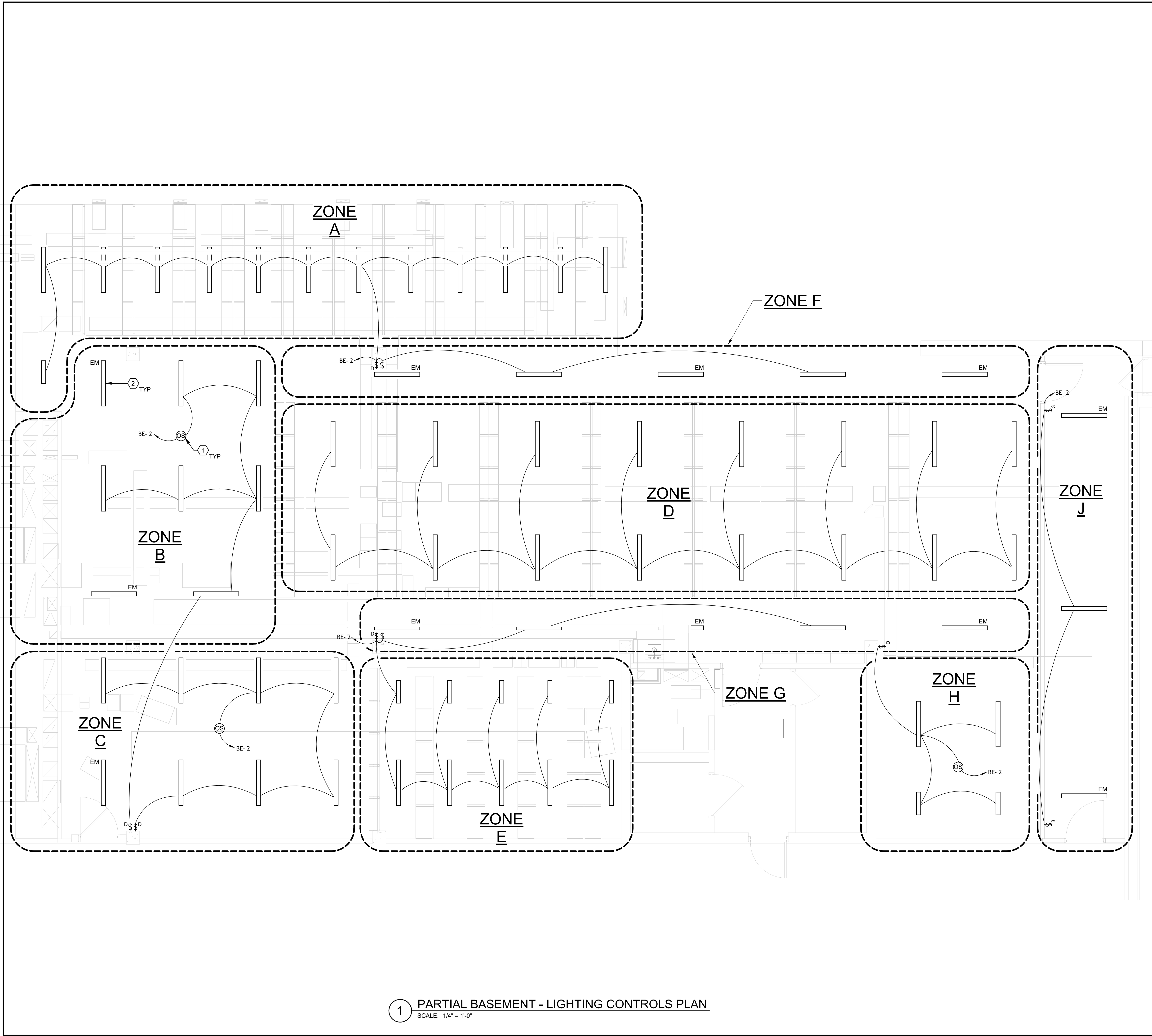
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DRAWN: CMW

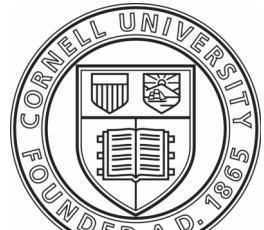
PARTIAL
BASEMENT -
LIGHTING PLAN

E-103
17988015



1 PARTIAL BASEMENT - LIGHTING CONTROLS PLAN
SCALE: 1/4" = 1'-0"

#	E-104 KEYED RENOVATION NOTES
1	FOR ZONES B / C / H - LIGHTING CONTROL SYSTEM BASIS OF DESIGN IS WATTSTOPPER DLM. PROVIDE ALL LOW-VOLTAGE DIMMER SWITCHES, CEILING MOUNTED PIR OCCUPANCY SENSORS, ROOM CONTROLLERS, LOW-VOLTAGE WIRING, AND PROGRAMMING FOR A COMPLETE SYSTEM. FOR ZONES F / G / J - PROVIDE 120VAC INDUSTRIAL GRADE TOGGLE SWITCHES TO CONTROL LUMINAIRES WITH INTEGRAL PIR OCCUPANCY SENSORS. FOR ZONES A / D / E - PROVIDE 120VAC DIMMER SWITCHES TO CONTROL LUMINAIRES WITH INTEGRAL PIR OCCUPANCY SENSORS.
2	LUMINAIRES WITH 'EM' DESIGNATION - FIXTURES ARE CIRCUITED TO THE EXISTING EMERGENCY LIGHTING BRANCH CIRCUIT AND SHALL BE UNSWITCHED (NIGHTLIGHTS).
LIGHTING CONTROL SCHEDULE	
ZONE	SEQUENCE
A	MANUAL CONTROLS: DIMMER SWITCH; AUTOMATIC CONTROLS: EACH LUMINAIRE INCLUDES AN INTEGRAL PIR OCCUPANCY SENSOR; SEQUENCE OF OPERATION: LUMINAIRE(S) IN EACH AISLE IS INDIVIDUALLY CONTROLLED BY THE INTEGRAL OCCUPANCY SENSOR - LUMINAIRES ILLUMINATE UPON MOTION AND AUTOMATICALLY TURN OFF AFTER 5 MINUTES OF NO MOTION.
B	MANUAL CONTROLS: DIMMER SWITCH; AUTOMATIC CONTROLS: CEILING MOUNTED PIR OCCUPANCY SENSOR; SEQUENCE OF OPERATION: LUMINAIRES CONTROLLED BY THE CEILING OCCUPANCY SENSOR - LUMINAIRES ILLUMINATE UPON MOTION AND AUTOMATICALLY TURN OFF AFTER 5 MINUTES OF NO MOTION.
C	MANUAL CONTROLS: DIMMER SWITCH; AUTOMATIC CONTROLS: CEILING MOUNTED PIR OCCUPANCY SENSOR; SEQUENCE OF OPERATION: LUMINAIRES CONTROLLED BY THE CEILING OCCUPANCY SENSOR - LUMINAIRES ILLUMINATE UPON MOTION AND AUTOMATICALLY TURN OFF AFTER 5 MINUTES OF NO MOTION.
D	MANUAL CONTROLS: DIMMER SWITCH; AUTOMATIC CONTROLS: EACH LUMINAIRE INCLUDES AN INTEGRAL PIR OCCUPANCY SENSOR; SEQUENCE OF OPERATION: LUMINAIRE(S) IN EACH AISLE IS INDIVIDUALLY CONTROLLED BY THE INTEGRAL OCCUPANCY SENSOR - LUMINAIRES ILLUMINATE UPON MOTION AND AUTOMATICALLY TURN OFF AFTER 5 MINUTES OF NO MOTION.
E	MANUAL CONTROLS: DIMMER SWITCH; AUTOMATIC CONTROLS: EACH LUMINAIRE INCLUDES AN INTEGRAL PIR OCCUPANCY SENSOR; SEQUENCE OF OPERATION: LUMINAIRE(S) IN EACH AISLE IS INDIVIDUALLY CONTROLLED BY THE INTEGRAL OCCUPANCY SENSOR - LUMINAIRES ILLUMINATE UPON MOTION AND AUTOMATICALLY TURN OFF AFTER 5 MINUTES OF NO MOTION.
F	MANUAL CONTROLS: TOGGLE SWITCH; AUTOMATIC CONTROLS: CEILING MOUNTED PIR OCCUPANCY SENSOR; SEQUENCE OF OPERATION: LUMINAIRES ARE INDIVIDUALLY CONTROLLED BY THE INTEGRAL OCCUPANCY SENSOR - LUMINAIRES ILLUMINATE UPON MOTION AND AUTOMATICALLY TURN OFF AFTER 5 MINUTES OF NO MOTION.
G	MANUAL CONTROLS: TOGGLE SWITCH; AUTOMATIC CONTROLS: CEILING MOUNTED PIR OCCUPANCY SENSOR; SEQUENCE OF OPERATION: LUMINAIRES ARE INDIVIDUALLY CONTROLLED BY THE INTEGRAL OCCUPANCY SENSOR - LUMINAIRES ILLUMINATE UPON MOTION AND AUTOMATICALLY TURN OFF AFTER 5 MINUTES OF NO MOTION.
H	MANUAL CONTROLS: DIMMER SWITCH; AUTOMATIC CONTROLS: CEILING MOUNTED PIR OCCUPANCY SENSOR; SEQUENCE OF OPERATION: LUMINAIRES CONTROLLED BY THE CEILING OCCUPANCY SENSOR - LUMINAIRES ILLUMINATE UPON MOTION AND AUTOMATICALLY TURN OFF AFTER 5 MINUTES OF NO MOTION.
J	MANUAL CONTROLS: TOGGLE SWITCH; AUTOMATIC CONTROLS: CEILING MOUNTED PIR OCCUPANCY SENSOR; SEQUENCE OF OPERATION: LUMINAIRES ARE INDIVIDUALLY CONTROLLED BY THE INTEGRAL OCCUPANCY SENSOR - LUMINAIRES ILLUMINATE UPON MOTION AND AUTOMATICALLY TURN OFF AFTER 5 MINUTES OF NO MOTION.



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ARCH/ CIVIL: *AW*

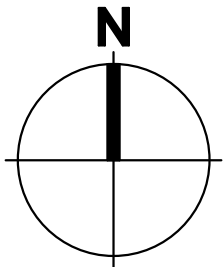
ELECTRICAL: *AT*

MECHANICAL: *92*



REVISIONS

1	02/19/26	ISSUE FOR CD REVIEW
2	06/22/26	ISSUE FOR 95% CD REVIEW
3	09/26/26	ISSUE FOR CONSTRUCTION



0' 2' 4' 8'
SCALE: 1/4" = 1'-0"

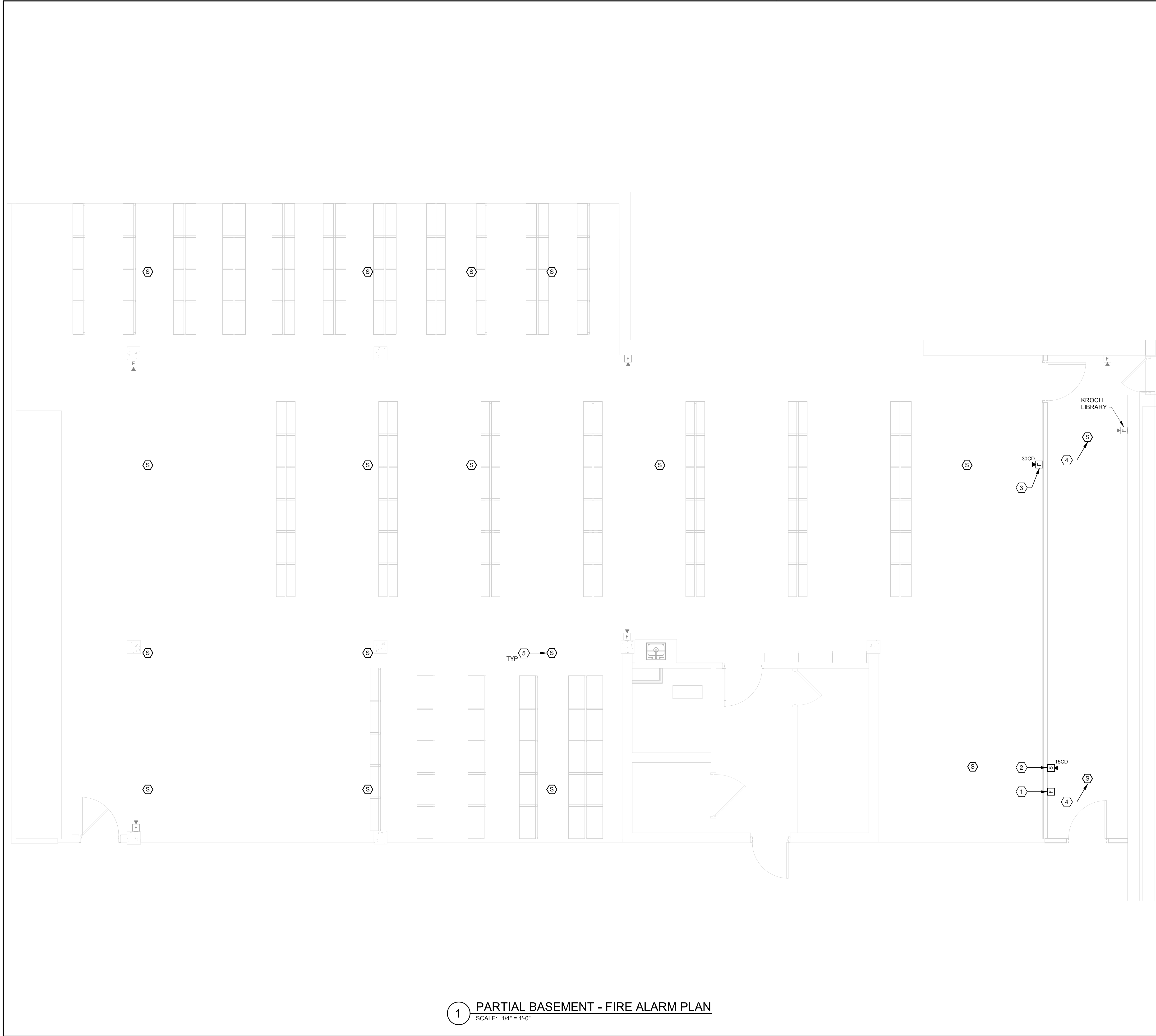
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DATE:	AUGUST 06, 2026
FACILITY:	2047
DESIGN:	C. WAYMAN
DRAWN:	CMW

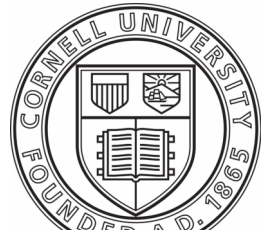
**PARTIAL
BASEMENT -
LIGHTING
CONTROLS PLAN**

E-104
17988015



1 PARTIAL BASEMENT - FIRE ALARM PLAN
SCALE: 1/4" = 1'-0"

#	E-105 KEYED RENOVATION NOTES
1	PROVIDE AN FCI MS-7 SERIES MANUAL PULL STATION AND CIRCUIT TO THE NEAREST EXISTING SLC WITH 2 #16AWG TWISTED/UNSHIELDED IN 3/4" EMT. PROVIDE ALL FIRE ALARM PROGRAMMING. PROVIDE ALL FIRE ALARM TESTING AND COORDINATE WITH CORNELL EHS.
2	PROVIDE A SYSTEM SENSOR L-SERIES STROBE AND CIRCUIT TO THE NEAREST EXISTING NAC WITH 2#14AWG TWISTED/SHIELDED IN 3/4" EMT. PROVIDE ALL FIRE ALARM PROGRAMMING. PROVIDE ALL FIRE ALARM TESTING AND COORDINATE WITH CORNELL EHS.
3	PROVIDE A SYSTEM SENSOR L-SERIES HORN STROBE AND CIRCUIT TO THE NEAREST EXISTING NAC WITH 2#14AWG TWISTED/SHIELDED IN 3/4" EMT. PROVIDE ALL FIRE ALARM PROGRAMMING. PROVIDE ALL FIRE ALARM TESTING AND COORDINATE WITH CORNELL EHS.
4	PROVIDE A FCI VELOCITI SERIES 3 PHOTOELECTRIC SMOKE DETECTOR AND CIRCUIT TO THE NEAREST SLC WITH 2#16AWG TWISTED/UNSHIELDED IN 3/4" EMT. PROVIDE ALL FIRE ALARM PROGRAMMING. PROVIDE ALL FIRE ALARM TESTING AND COORDINATE WITH CORNELL EHS.
5	REINSTALL SMOKE DETECTORS. PROVIDE ALL FIRE ALARM PROGRAMMING. PROVIDE ALL FIRE ALARM TESTING AND COORDINATE WITH CORNELL EHS.



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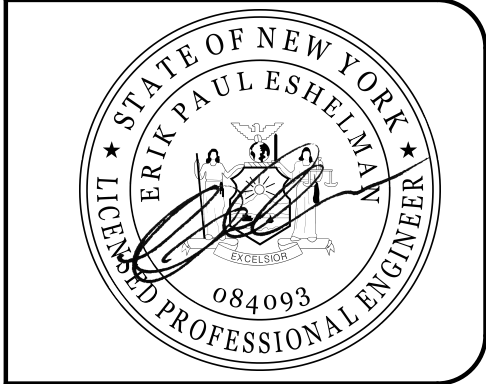
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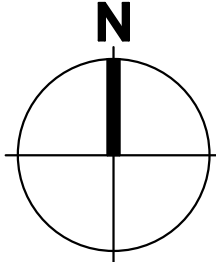
ARCH/ CIVIL: *AW*

ELECTRICAL: *ATR*

MECHANICAL: *GF*



REVISIONS		
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0' 2' 4' 8'

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

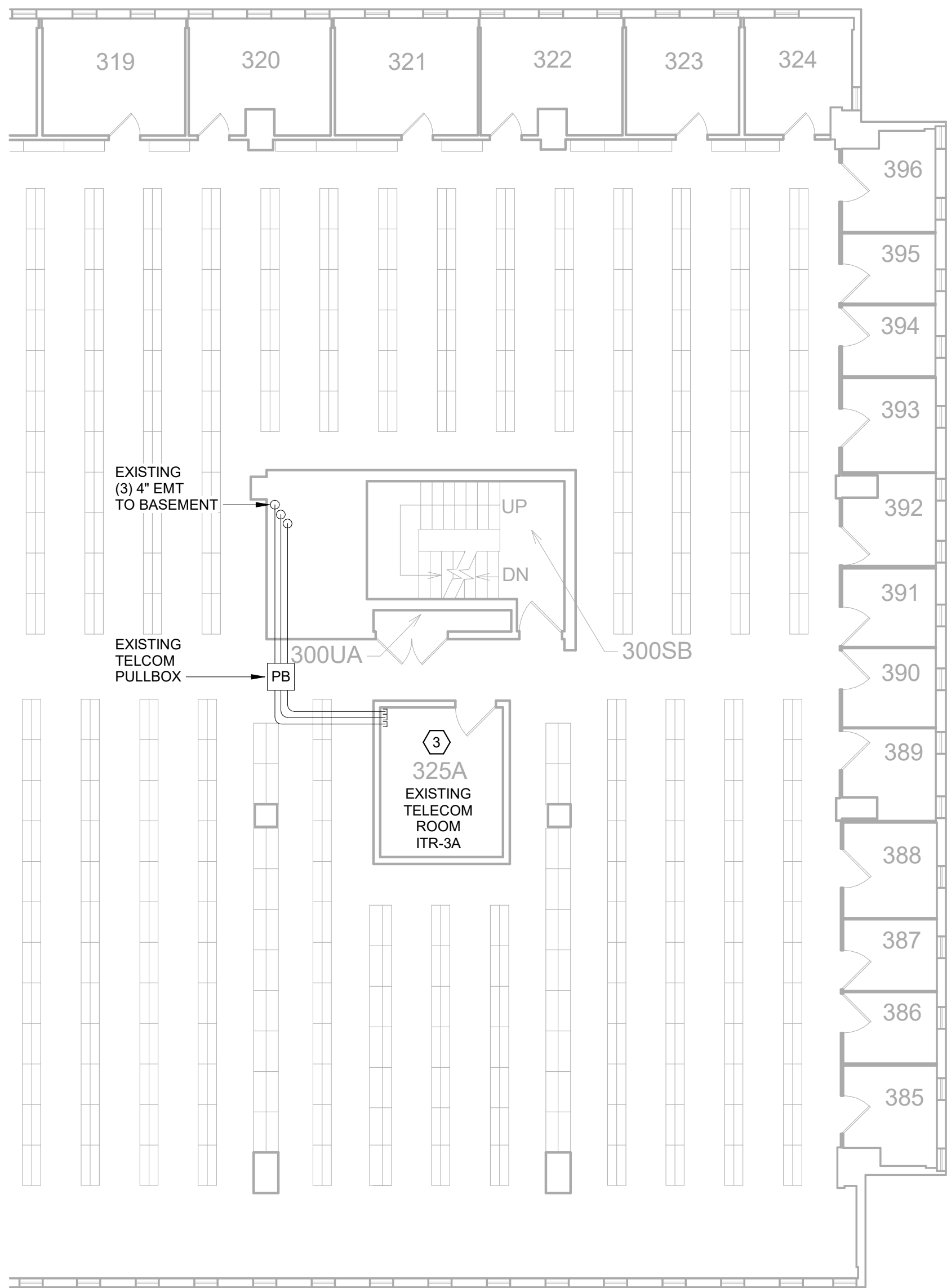
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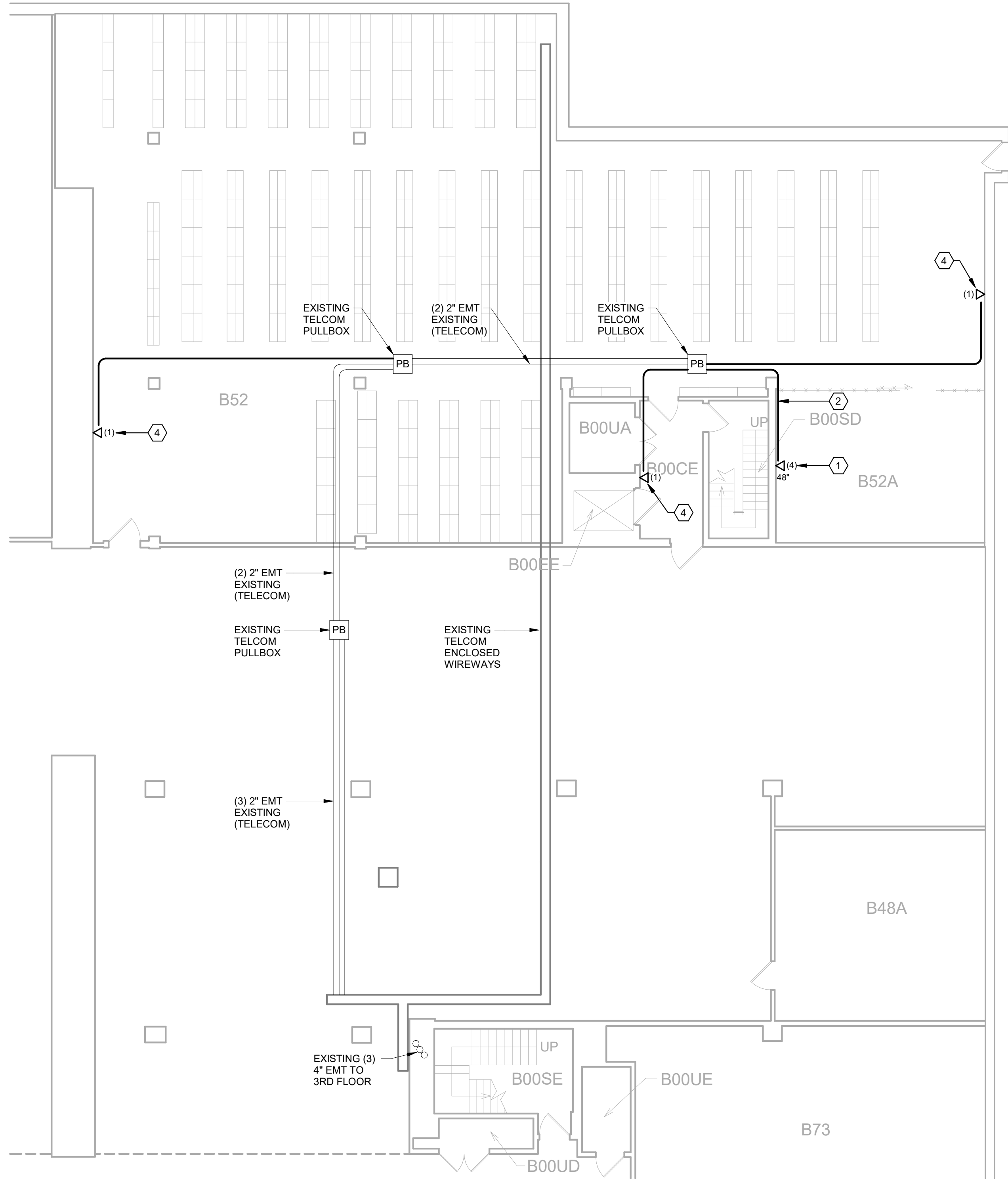
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FACILITY:	2047
DESIGN:	C. WAYMAN
DRAWN:	CMW

PARTIAL
BASEMENT - FIRE
ALARM PLAN

E-105
17988015



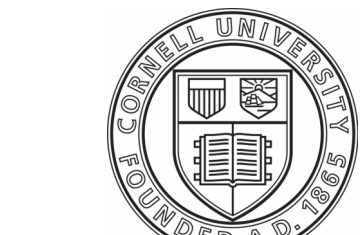
2 PARTIAL 3RD FLOOR - TELCOM ROUTING PLAN
SCALE: 1/8" = 1'-0"



1 PARTIAL BASEMENT - TELECOM ROUTING PLAN
SCALE: 1/8" = 1'-0"

E-106 KEYED RENOVATION NOTES

- 1 PROVIDE A 4x4 SURFACE MOUNT J-BOX WITH (4) CIT APPROVED T568A CODED CAT6A MODULAR JACKS AND PANDUIT FACEPLATE. COORDINATE JACK LABELLING WITH CIT.
- 2 PROVIDE (4) CAT6A UTP, 4-PAIR, 23-AWG, SOLID CONDUCTOR CABLES IN 1" EMT TO THE NEAREST TELECOM PULLBOX AS SHOWN. ROUTE CABLES TO ITR-3A IN ROOM 325A. UTILIZE THE EXISTING PULLBOXES, WIREWAYS, AND RACEWAYS AS SHOWN.
- 3 CONTRACTOR TO PROVIDE ALL TERMINATIONS AND TESTING. CONNECTIONS TO THE PATCH PANEL BY CIT. COORDINATE ALL TELECOM WORK WITH CIT.
- 4 PROVIDE A 4x4 SURFACE MOUNT J-BOX WITH (1) CIT APPROVED T568A CODED CAT6A MODULAR JACK AND PANDUIT FACEPLATE. COORDINATE JACK LABELLING WITH CIT. COORDINATE MOUNTING HEIGHT WITH OWNER. PROVIDE (1) CAT6A UTP, 4-PAIR, 23-AWG, SOLID CONDUCTOR CABLE IN 1" EMT TO THE NEAREST TELECOM PULLBOX AS SHOWN. ROUTE CABLES TO ITR-3A IN ROOM 325A. UTILIZE THE EXISTING PULLBOXES, WIREWAYS, AND RACEWAYS AS SHOWN. CAMERAS FURNISHED AND INSTALLED BY OTHERS.



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ARCH/ CIVIL: *AW*

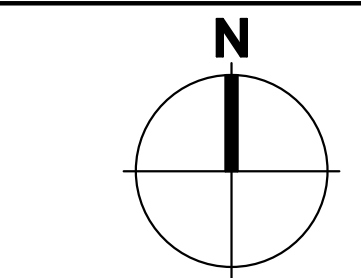
ELECTRICAL: *TR*

MECHANICAL: *92*



REVISIONS

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0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

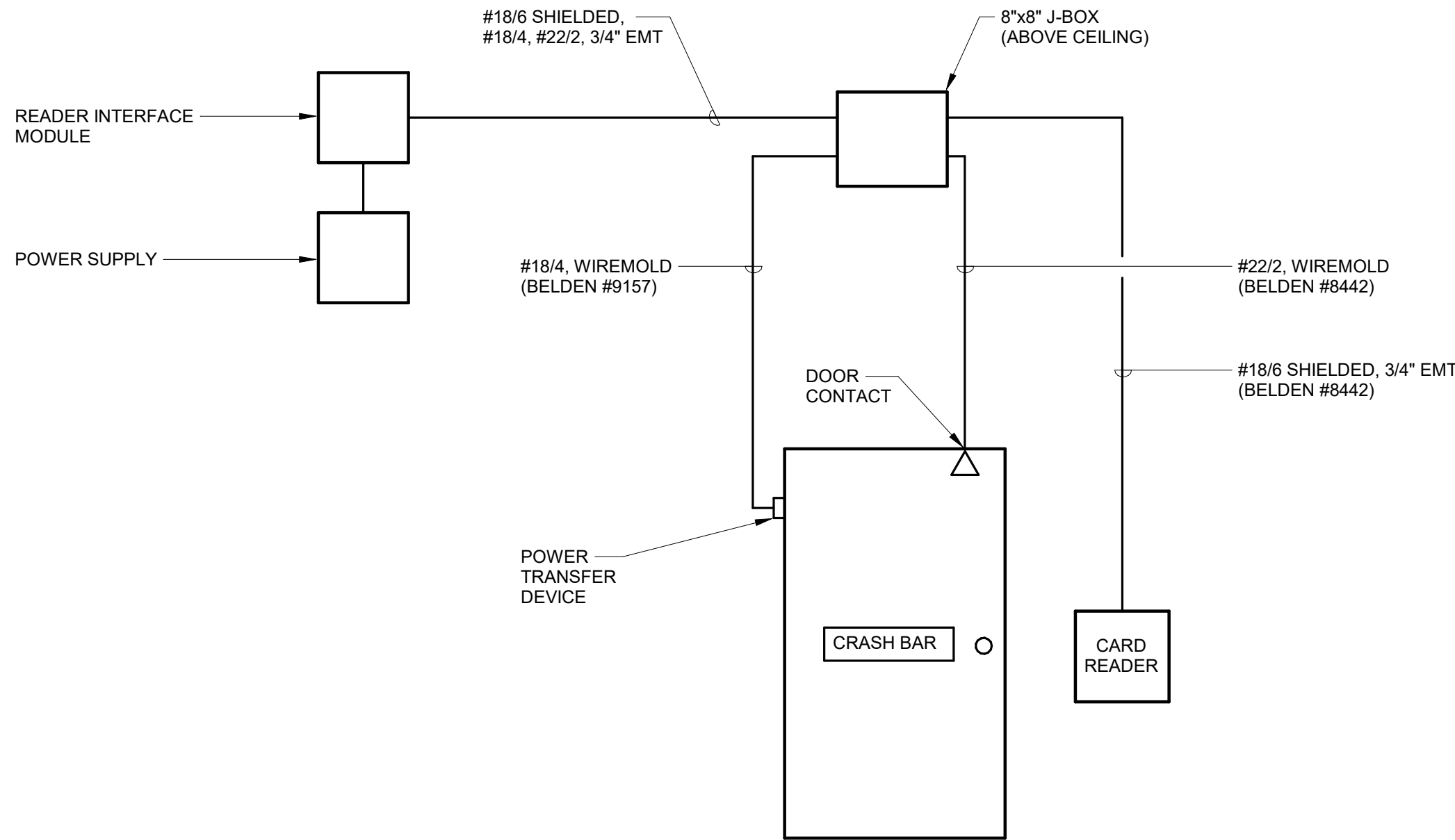
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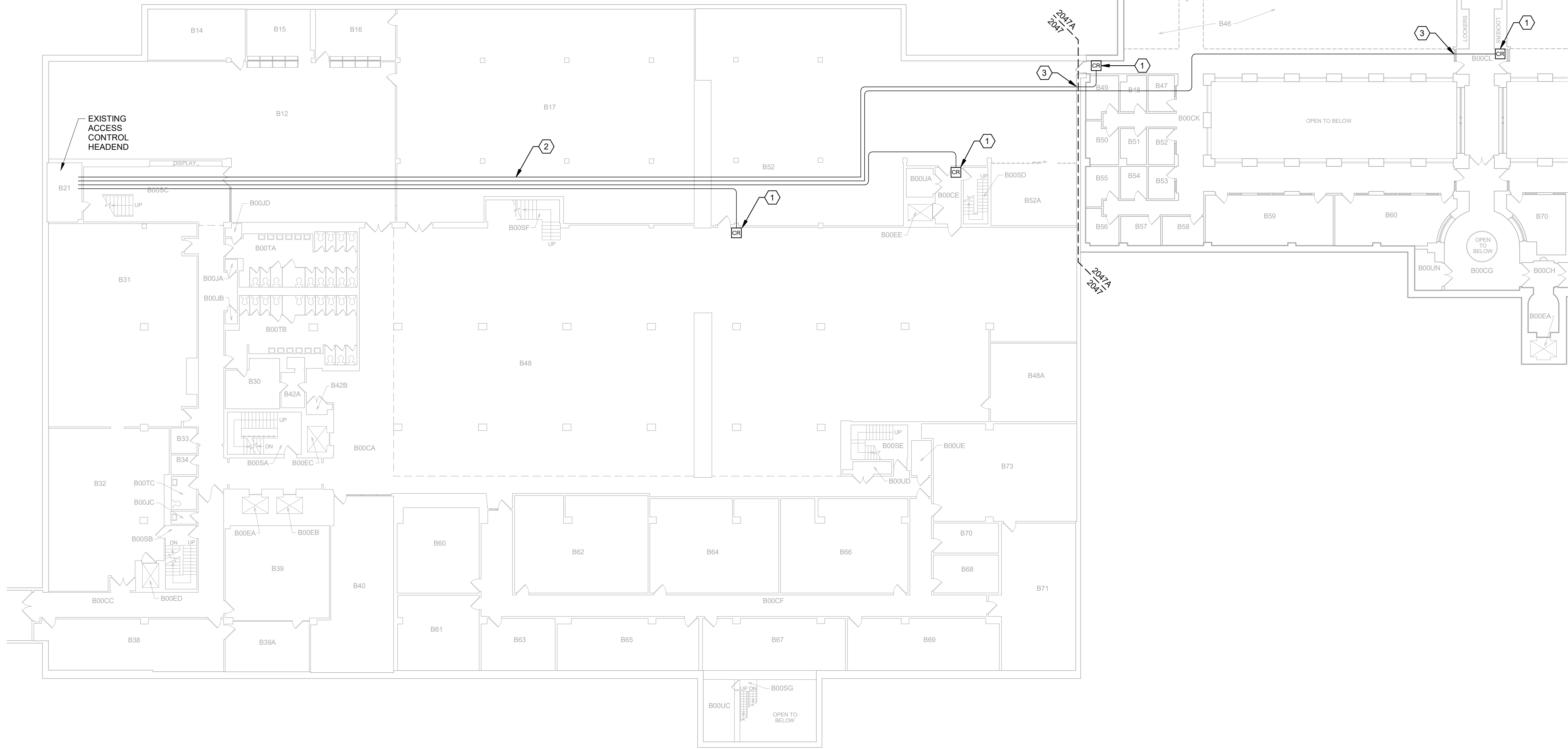
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TELECOM
ROUTING PLANS

E-106
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2 ACCESS CONTROL SCHEMATIC
NOT TO SCALE



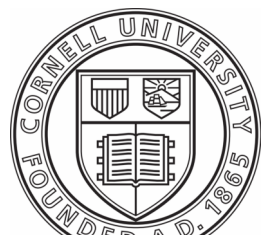
1 PARTIAL BASEMENT - ACCESS CONTROL PLAN
SCALE: 1/16" = 1'-0"

E-107 KEYED RENOVATION NOTES

- 1 PROVIDE A COMPLETE CARD ACCESS SYSTEM AT EACH DOOR SHOWN. REFER TO DETAIL #1/E-107 FOR ADDITIONAL INFORMATION. COORDINATE ALL ACCESS CONTROL EQUIPMENT WITH THE DOOR HARDWARE INSTALLER.
- 2 ROUTING SHOWN IS DIAGRAMMATIC. VERIFY EXACT ROUTING IN-FIELD. CONCEAL RACEWAYS ABOVE FINISHED CEILINGS WHERE POSSIBLE. PROVIDE JUNCTION BOXES AS REQUIRED.
- 3 COREDRILL AND FIRESTOP PENETRATIONS THRU RATED WALLS. REFER TO DETAIL #1/E-001 FOR ADDITIONAL INFORMATION.

ACCESS CONTROL GENERAL NOTES

- 1.0 PROVIDE A READER INTERFACE MODULE (LENEL LNL1320S3) FOR EACH DOOR SPECIFIED WITH CARD ACCESS AND INSTALL IN THE ACCESS CONTROL HEADEND ROOM B21. PROVIDE WITH POWER SUPPLIES (LENEL LNLAL600ULX4CB6), CHARGER (LENEL LNL0S120ACTXP2), AND BATTERY(S) (BOSCH D126). PROVIDE EACH ENCLOSURE WITH AN INPUT CONTROL MODULE (LENEL LNL1100S3) AND TAMPER SWITCH (GRI TS-20).
- 2.0 PROVIDE A 120VAC, 20A BRANCH CIRCUIT TO EACH POWER SUPPLY. CIRCUIT WITH 2#12, #112G, 3/4" EMT TO THE NEAREST 120/208V PANELBOARD WITH A SPARE 20A, 1-POLE CIRCUIT BREAKER. MODIFY DIRECTORY ACCORDINGLY.
- 3.0 CONNECTIONS BETWEEN THE READER INTERFACE MODULE AND THE EXISTING ACCESS CONTROL SYSTEM CONTROLLER BY CORNELL. PROVIDE 3/4" EMT WITH PULLSTRING BETWEEN THE EXISTING CONTROL SYSTEM CONTROLLER AND THE NEW POWER SUPPLY(S). ACCESS CONTROL PROGRAMMING BY CORNELL.
- 4.0 PROVIDE A HID SIGNO MODEL 40 CARD READER FOR EACH DOOR SPECIFIED WITH CARD ACCESS.
- 5.0 PROVIDE A DOOR CONTACT (GRI 18412WGW) AT EACH DOOR SPECIFIED WITH CARD ACCESS. COORDINATE LOCATION AND INSTALLATION WITH THE DOOR HARDWARE INSTALLER.
- 6.0 PROVIDE A POWER TRANSFER DEVICE FOR EACH DOOR SPECIFIED WITH CARD ACCESS. COORDINATE LOCATION AND STYLE OF POWER TRANSFER DEVICE WITH THE DOOR HARDWARE INSTALLER.
- 7.0 REFER TO AND COMPLY WITH ALL INSTALLATION AND TESTING REQUIREMENTS LISTED IN THE CORNELL DESIGN & CONSTRUCTION STANDARD 281316 - ELECTRONIC SAFETY AND SECURITY SYSTEMS. MANUFACTURER AND PART NUMBERS INCLUDED IN THIS DETAIL ARE FOR REFERENCE ONLY - PROVIDE EQUIPMENT AND INSTALLATION AS NECESSARY FOR A COMPLETE SYSTEM.
- 8.0 COORDINATE ALL INSTALLATION AND TESTING WITH CORNELL SHOPS - CHUCK LUCAS.
- 9.0 SCHEDULE A COORDINATION MEETING WITH THE CORNELL PM, CORNELL FACILITIES ENGINEERING, AND CORNELL SHOPS (CHUCK LUCAS) PRIOR TO ROUGH-IN.



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ARCH/ CIVIL: *MB*

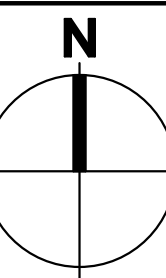
ELECTRICAL: *ATR*

MECHANICAL: *92*



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ACCESS
CONTROL PLAN

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