XX Citizens

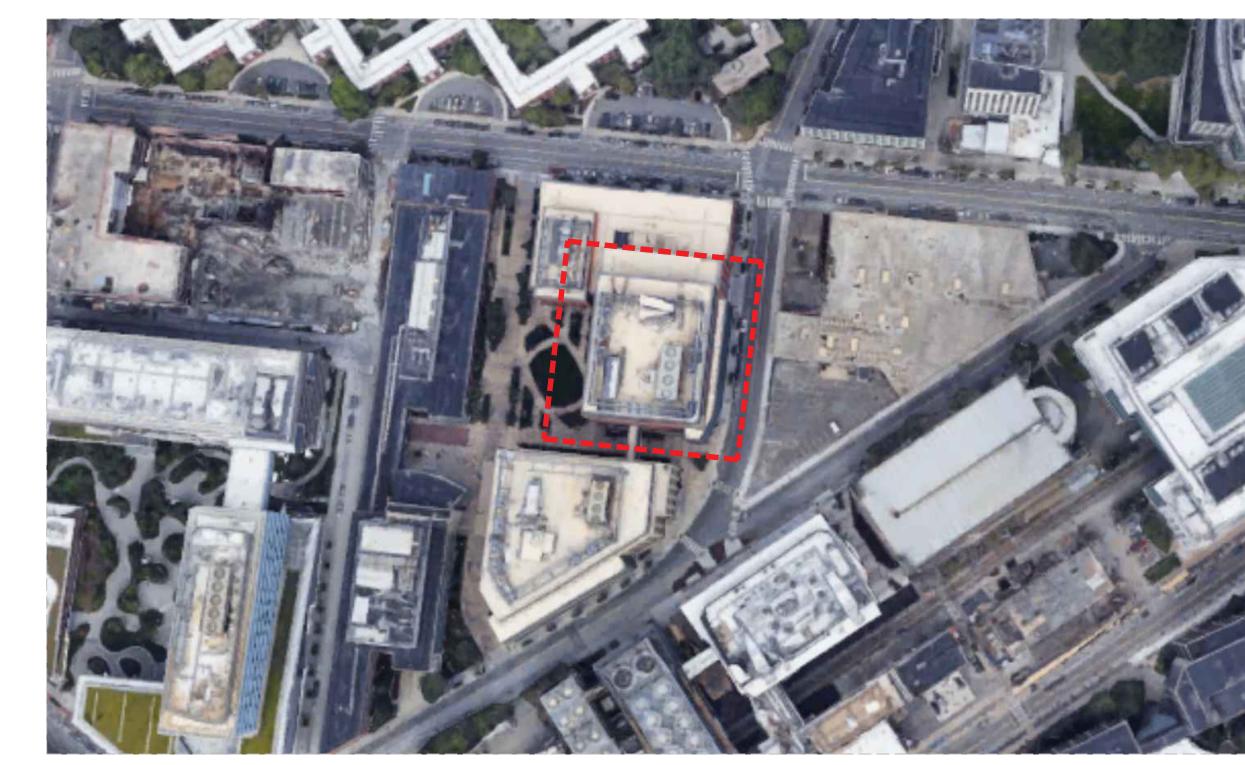
KENDALL SQUARE

EVERYDAY BANKING

610 Main Street Cambridge, MA 02139

03/31/2022 CONSTRUCTION DOCUMENTS

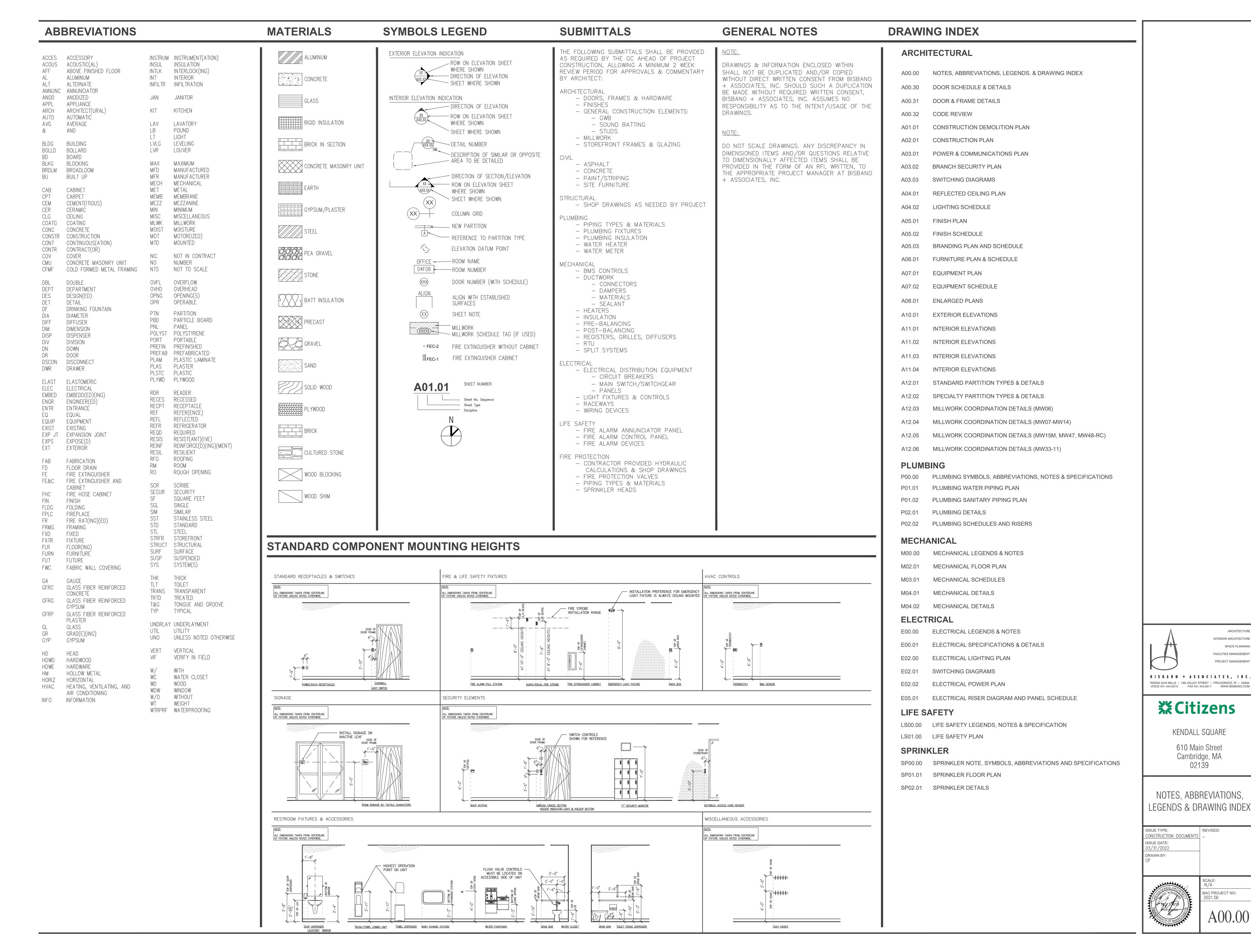
BISBANO Project No.: 2021.56



LOCATION MAP



ARCHITECT
BISBANO + ASSOCIATES, INC.
RISING SUN MILLS, 188 VALLEY STREET, STE. 100
PROVIDENCE, RI 02909
OFFICE: 401.404.8310



INTERIOR ARCHITECTURE

FACILITIES MANAGEMENT

PROJECT MANAGEMENT

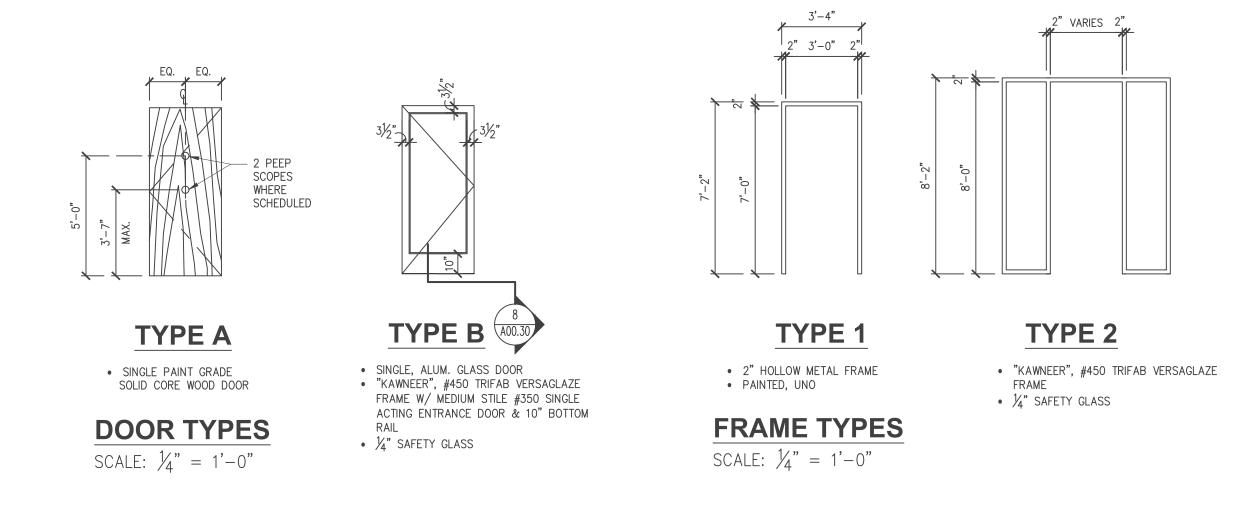
SPACE PLANNING

DOOR, FRAME & HARDWARE GROUP SCHEDULE

ASSEMBLY	DOOF	2				FRAME								
NUMBER LOCATION	TYPE	DIMENSION	S	MATERIAL	FINISH	TYPE MATERIAL	FINISH	DET/	ILS	FIRE	TEMP RISE	SMOKE	HARDWARE SET	REMARKS
	WIDTH	HEIGHT	THICKNESS					HEAD JAM	3 SILI	-	_ KISL	LADLL	JL 1	
FIRST FLOOR														
101 24 HOUR VESTIBULE				ALUM/GLASS	_	- ALUM.	_				_	_	_	EXISTING DOOR AND HARDWARE BY BUILDING OWNER. CONTRACTOR TO ADD DOOR OPERATOR AND PUSH BUTTONS.
102 24 HOUR VESTIBULE		7'-0"		ALUM/GLASS	CLEAR ANODIZED	2 ALUM.	CLEAR ANODIZED				_	_	02E	
103 ATM/HOTEL/COMMAN		7'-0"		WOOD	PAINTED - P6	1 H.M.	PAINTED - P6	 			_	_	04A	PEEP SCOPES TO BE VIEWED FROM ATM/HOTEL/COMMAND ZONE#107 TO BANKING LOBBY
104 ADA RESTROOM	A 3'-0"		1'-3/4"	WOOD	PAINTED - P6	1 H.M.	PAINTED - P6	1/A00.31 2/AC	0.31 -	_	_	_	04E	
105 CASH COUNTING	A 3'-0"	7'-0"	/	WOOD	PAINTED - P16	1 H.M.		1/A00.31 2/AC	0.31 -	_	_	_	04A	PEEP SCOPES TO BE VIEWED FROM CASH COUNTING #105 TO TRANSACTION ZONE #104
106 SMALL OFFICE 108	- CLEAR OPI	ENING DIMENS	SION: 32" MIN	. SEE "DIRTT" SHO	P DRAWINGS	- SEE "DIRTT" S	SHOP DRAWINGS				_	_	05A	REF. "DIRTT" SHOP DRAWINGS FOR ADDITIONAL INFO. SLIDING DOOR TO HAVE MIN. 32" CLEAR OPENING U.O.N. "XX" TYP. FINISH, PROVIDED BY DIRTT VENDOR.
107 MEDIUM OFFICE 109				. SEE "DIRTT" SHO		- SEE "DIRTT" S				_	_	_	05A	REF. "DIRTT" SHOP DRAWINGS FOR ADDITIONAL INFO. SLIDING DOOR TO HAVE MIN. 32" CLEAR OPENING U.O.N. "XX" TYP. FINISH, PROVIDED BY DIRTT VENDOR.
108 LARGE OFFICE 110				I. SEE "DIRTT" SHO		- SEE "DIRTT" S				_	_	_	05A	REF. "DIRTT" SHOP DRAWINGS FOR ADDITIONAL INFO. SLIDING DOOR TO HAVE MIN. 32" CLEAR OPENING U.O.N. "XX" TYP. FINISH, PROVIDED BY DIRTT VENDOR.
109 SMALL OFFICE 111	- CLEAR OPI	ENING DIMENS	SION: 32" MIN	I. SEE "DIRTT" SHO	P DRAWINGS	- SEE "DIRTT" S	SHOP DRAWINGS			_	_	_	05A	REF. "DIRTT" SHOP DRAWINGS FOR ADDITIONAL INFO. SLIDING DOOR TO HAVE MIN. 32" CLEAR OPENING U.O.N. "XX" TYP. FINISH, PROVIDED BY DIRTT VENDOR.
110 JANITOR'S CLOSET	A 3'-0"	7'-0"	1'-3/4"	WOOD	PAINTED - P16	1 H.M.	PAINTED - P16	1/A00.31 2/AC	0.31 -	_	_	_	04F	
							1		l .	I			1	

	R HARDW	ARE SCHE	DULE	<u> </u>
SET NUMBER	DESCRIPTION	LOCATION	SPECIFICATIONS	REMARKS
02 IN	TERIOR ENTRY	SYSTEMS		
			HANDLESET:	Г
			KAWNEER "ARCHITECTS CLASSIC", CO-9 STYLE PULL FALCON 1790, RIM TOUCHBAR DEVICE 1790-E0-XX"-XX	INSTALL: 40" AFF TO CENTERLINE EXIT DEVICE TO CONTAIN HEX KEY DOGGIN ARCHITECT TO CONFIRM SIZE & FINISH.
			HINGE: ALLEGION, IVES 5-BB-1-HW-4.5X4-652-NRP	QUANTITY: (3) PER 7'-0" HIGH DOOR QUANTITY: (4) PER 8'-0" HIGH DOOR QUANTITY: (4) PER 10'-0" HIGH DOOR
02E	SINGLE STOREFRONT DOOR (FRAMED)	ENTRY VESTIBULE	OPERATOR: ASSA ABLOY SW200i	SEE NOTE #19 IN HARDWARE NOTES. PUSH BUTTONS TO BE MOUNTED AT 48" AFF.
			SILENCER: ALLEGION, IVES SR64-GREY	QUANTITY: (3) PER DOOR
			THRESHOLD: N/A	THRESHOLDS ARE NOT TO BE INSTALLED A INTERIOR DOORS. REFER TO SCHEDULE ON A05.01 FOR STANDARD TRANSITION STRIPS BETWEEN FLOORING MATERIALS.
 04 BA	ACK OF HOUSE			
			HANDLESET: ALLEGION, SCHLAGE ND80PDBD, ATH, 626, 13–247, 10–025 KABA PEAK, 7–PIN SFIC (BY OWNER)	INSTALL: 40" AFF TO CENTERLINE
			HINGE: ALLEGION, IVES 5-BB-1-HW-4.5X4-652-NRP	QUANTITY: (3) PER 7'-0" HIGH DOOR
		ATA DOOM	CLOSER: ALLEGION, LCN 4040XP-ALUMINUM-3071-72-3077 ORDER W/ SNAP-ON COVER CLIP 4040XP-54	SET CLOSER TO 5.0 LBS OPENING FORCE, TEMPLATE IN FIELD TO ALLOW FOR MAXIMUM OPENING.
04A	STOREROOM LOCK SECURED SPACES (NON-ELECTRICAL)	ATM ROOM CASH/COUNTING COMMAND ZONE HOTEL/FILES	FLOOR STOP: ALLEGION, IVES FS410-626	-
			SILENCER: ALLEGION, IVES SR64-GREY	QUANTITY: (3) PER DOOR
			<u>VIEWER:</u> ALLEGION, IVES 698–626	QUANTITY: (2) PER DOOR INSTALL: (1) AT 42" AFF TO CENTERLINE INSTALL: (1) AT 60" AFF TO CENTERLINE
			KICKPLATE: ALLEGION, IVES 8400–626, 10"	QUANTITY: (1) PER DOOR INSTALL: (1) AT PUSH SIDE
			HANDLESET: ALLEGION, SCHLAGE ND40S, ATH, 626, 13–247, 10–025	INSTALL: 40" AFF TO CENTERLINE
			HINGE: ALLEGION, IVES 5-BB-1-HW-4.5X4-652-NRP	QUANTITY: (3) PER 7'-0" HIGH DOOR
04E	PRIVACY LOCK	COUPON ROOM	CLOSER: ALLEGION, LCN 4040XP-ALUMINUM-3071-72-3077 ORDER W/ SNAP-ON COVER CLIP 4040XP-54	SET CLOSER TO 5.0 LBS OPENING FORCE, TEMPLATE IN FIELD TO ALLOW FOR MAXIMUM OPENING.
U4C	PRIVACT LUCK	RESTROOM	FLOOR STOP: ALLEGION, IVES FS410-626	-
			SILENCER: ALLEGION, IVES SR64-GREY	QUANTITY: (3) PER DOOR
			KICKPLATE: ALLEGION, IVES 8400-626, 10"	QUANTITY: (1) PER DOOR INSTALL: (1) AT PUSH SIDE
			HANDLESET: ALLEGION, SCHLAGE ND53PDBD, ATH, 626, 13–247, 10–025 KABA PEAK, 7–PIN SFIC (BY OWNER)	INSTALL: 40" AFF TO CENTERLINE
			HINGE: ALLEGION, IVES 5-BB-1-HW-4.5X4-652-NRP	QUANTITY: (3) PER 7'-0" HIGH DOOR
04F	ENTRANCE LOCK	JANITOR	FLOOR STOP: ALLEGION, IVES FS410-626	-
			SILENCER: ALLEGION, IVES SR64-GREY	QUANTITY: (3) PER DOOR
			KICKPLATE: ALLEGION, IVES 8400-626, 10"	QUANTITY: (1) PER DOOR INSTALL: (1) AT PUSH SIDE
	ONT OF HOUSE	•	•	

DOOR & FRAME TYPES



DOOR & HARDWARE NOTES

- 01 ALL LOCKSETS SHALL BE CODED IN ACCORDANCE WITH LANDLORD REQUIREMENTS. PASS KEYS FOR EACH LOCK, AND MASTER KEYS, PROPERLY TESTED, SHALL BE PROVIDED TO THE TENANT. PROJECT MANAGER TO IDENTIFY QUANTITY REQUIRED. TENANT MASTER SHALL BE LAY-PASSED BY THE BUILDING MASTER-KEY ONLY, OR AS OTHERWISE REQUIRED BY THE
- 02 ALL LOCKSETS TO HAVE SCHLAGE CYLINDERS FITTED SO AS TO ACCEPT 'KABA PEEK', SFIC, AKA FIGURE 8 STYLE, 7 PIN KEYWAYS, UNLESS
 OTHERWISE NOTED. GC TO CONFIRM & COORDINATE WITH BUILDING + CFG 09 UNDERCUT ALL DOORS AS REQUIRED FOR NEW FLOOR FINISHES. GC TO FACILITIES MANAGER. PERMANENT SFIC CORING & KEYING BY CFG.
- 03 ALL INTERIOR DOOR FRAMES TO BE KNOCK DOWN FRAMES WITH SECURITY TABS. FRAMES TO BE PRIMED FOR PAINTING ON SITE.
- 04 ALL HOLLOW METAL DOORS (18 GA.), WOOD DOORS & HOLLOW METAL FRAMES TO BE PAINTED PER FINISH PLÂNS.
- 05 ALL INTERIOR WOOD DOORS TO OBTAIN 10" KICKPLATE ON PUSH SIDE ONLY, IVES 8400, US26D. REFER TO FINISH PLAN FOR ADDITIONAL WOOD DOOR
- FINISHES & TRANSITION DETAILS, ON PUSH SIDE ONLY, KD FRAMES. 06 ALL HARDWARE TO BE AS SPECIFIED. NO SUBSTITUTIONS.
- 07 ALL HARDWARE TO BE INSTALLED ACCORDING TO THE STANDARDS OF THE 13 ALL DOORS AND HARDWARE TO COMPLY WITH ANSI 19 WHEN AUTOMATIC DOOR OPERATORS ARE SPECIFIED MANUFACTURER & NFPA80 REQUIREMENTS.

 STANDARDS LATEST EDITION.

 REQUIRED, SPECIFICATION SHALL BE AS
- ALL LOCKSETS/LATCHSET LEVERS & KNOBS TO BE LOCATED 38" AFF TO 14 ALL DOORS UP TO AND INCLUDING 7'-6" SHALL BE CENTERLINE UNLESS OTHERWISE NOTED. IF EXISTING DOORS ARE TO REMAIN, THEN ALL HARDWARE LOCATIONS SHALL MATCH EXISTING HARDWARE TO REMAIN, PROVIDED THAT THE EXISTING LOCATIONS MEET ADA REGULATIONS OF 34"-48" AFF.
- COORDINATE.
- 10 ALL PAIRS OF DOORS TO HAVE RH ACTIVE, UNLESS OTHERWISE NOTED. 11 PROVIDE ALL HARDWARE FITTINGS AND ACCESSORIES AS REQUIRED FOR
- SPECIFIC INSTALLATION. FURNISH AND SPECIAL ITEMS REQUIRED FOR CODE 17 ALL KNOCKDOWN FRAMES TO RECEIVE SECURITY TABS. COMPLIANCE AT SPECIAL DOOR LOCATIONS.
- SPECIFICATIONS AND FURNISH PROPER HARDWARE FOR ALL OPENINGS WHETHER LISTED OR NOT. COMPLETE SHOP DRAWINGS TO BE PROVIDED FOR APPROVAL PRIOR TO PURCHASE.
- PROVIDED WITH 1 $\frac{1}{2}$ PAIR OF HINGES AND ONE
- FRACTION THEREOF. 15 ALL NEW EXTERIOR DOORS AND FRAMES TO BE A-60 GALVANIZED. DOORS TO BE POLYSTYRENE INSULATED

ADDITIONAL HINGE FOR EACH ADDITIONAL 2'-6" OR

- AND HAVE A SEALED TOP CAP.
- 16 ALL WOOD VENEER DOORS TO BE SOLID CORE, PAINTED - UNLESS OTHERWISE NOTED. REFER TO FINISH PLAN.
- FINISH HARDWARE SUPPLIER SHALL EXAMINE THE DRAWINGS, SCHEDULE AND 18 IF DAISYWHEEL DOOR HANDLE IS TO BE USED, CO-9 STYLE PULL SHOULD BE ORDERED FOR DAY 1 INSTALLATION BY GC. CITIZENS SIGNAGE VENDOR TO INSTALL NEW BRANDED HANDLE UPON FABRICATION.
- FOLLOWS:
- ASSA ABLOY SURFACE MOUNTED OPERATOR - SW200i SINGLE OR DOOR PAIR AS REQUIRED PUSH PLATE ACTIVATION
- COMPLIANT W/ ANSI A156.10/A156.19 - FINISH TO MATCH EXISTING DOOR FRAME - CONFIGURATION: SURFACE MOUNTED
- POWER SUPPLY: $120VAC + 10/-15\%, \frac{50}{60}$ HZ - AUXILIARY VOLTAGE: 24V DC, MAX, 700MA
- ELECTRO-MECHANICAL LOCKING DEVICE - 12V DC, MAX 1200MA
- HOLD OPEN TIME: 10 SECONDS

FOR ELECTRIC LOCK MANAGEMENT: LOCK MONITORING PREVENTS OPERATOR(S) FROM OPENING DOORS UNTIL RELEASE OF ELECTRIFIED LOCK. EXISTING DOORS TO 24-HOUR VESTIBULES TO HAVE COORDINATION BETWEEN PARABIT CARD READER AND DOOR OPERATOR DURING INSTALLATION.



ARCHITECTURE INTERIOR ARCHITECTURE SPACE PLANNING FACILITIES MANAGEMENT PROJECT MANAGEMENT

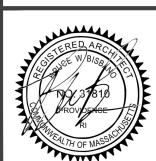
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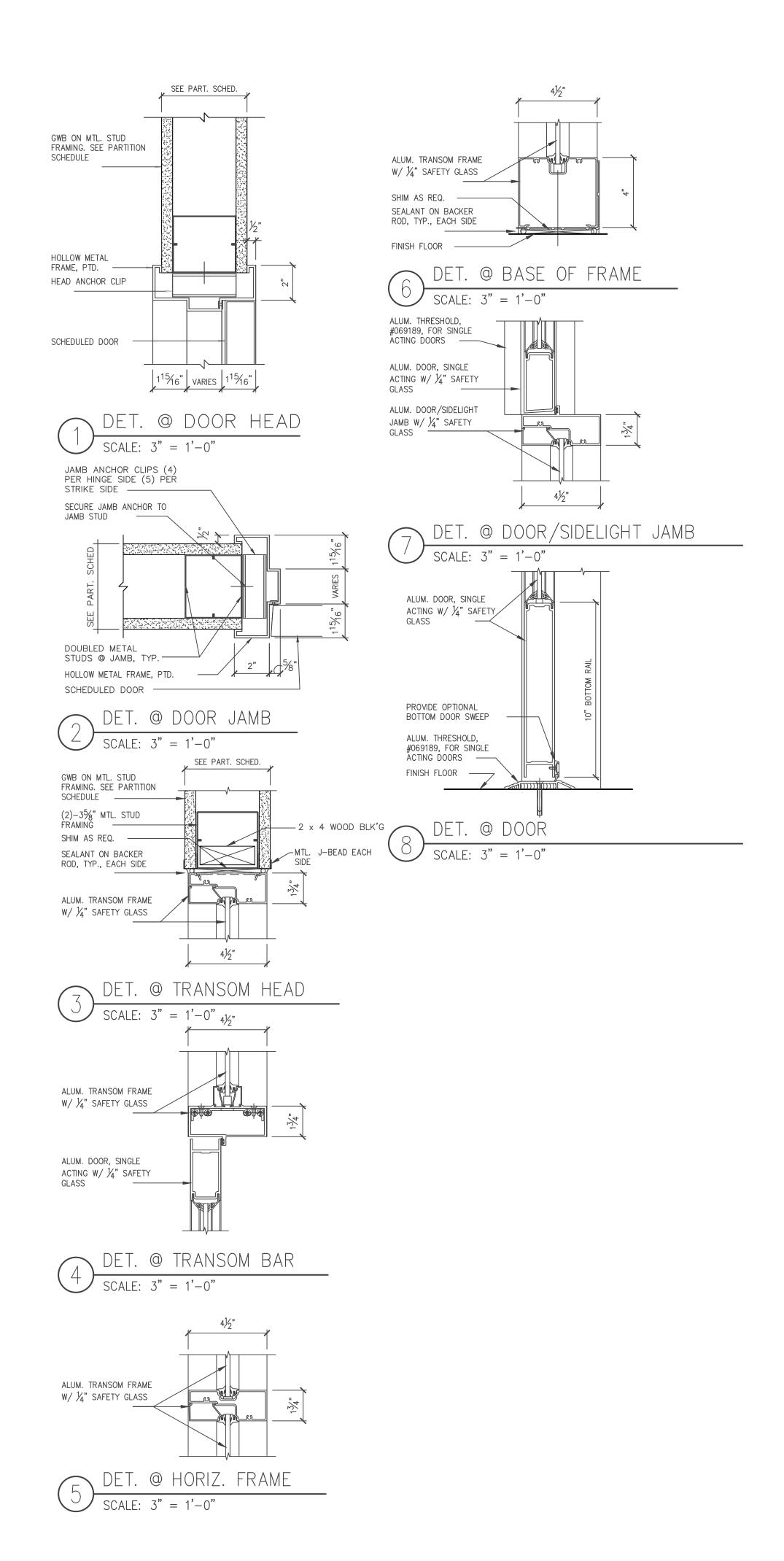
XX Citizens

KENDALL SQUARE

610 Main Street Cambridge, MA 02139

DOOR SCHEDULE & DETAILS







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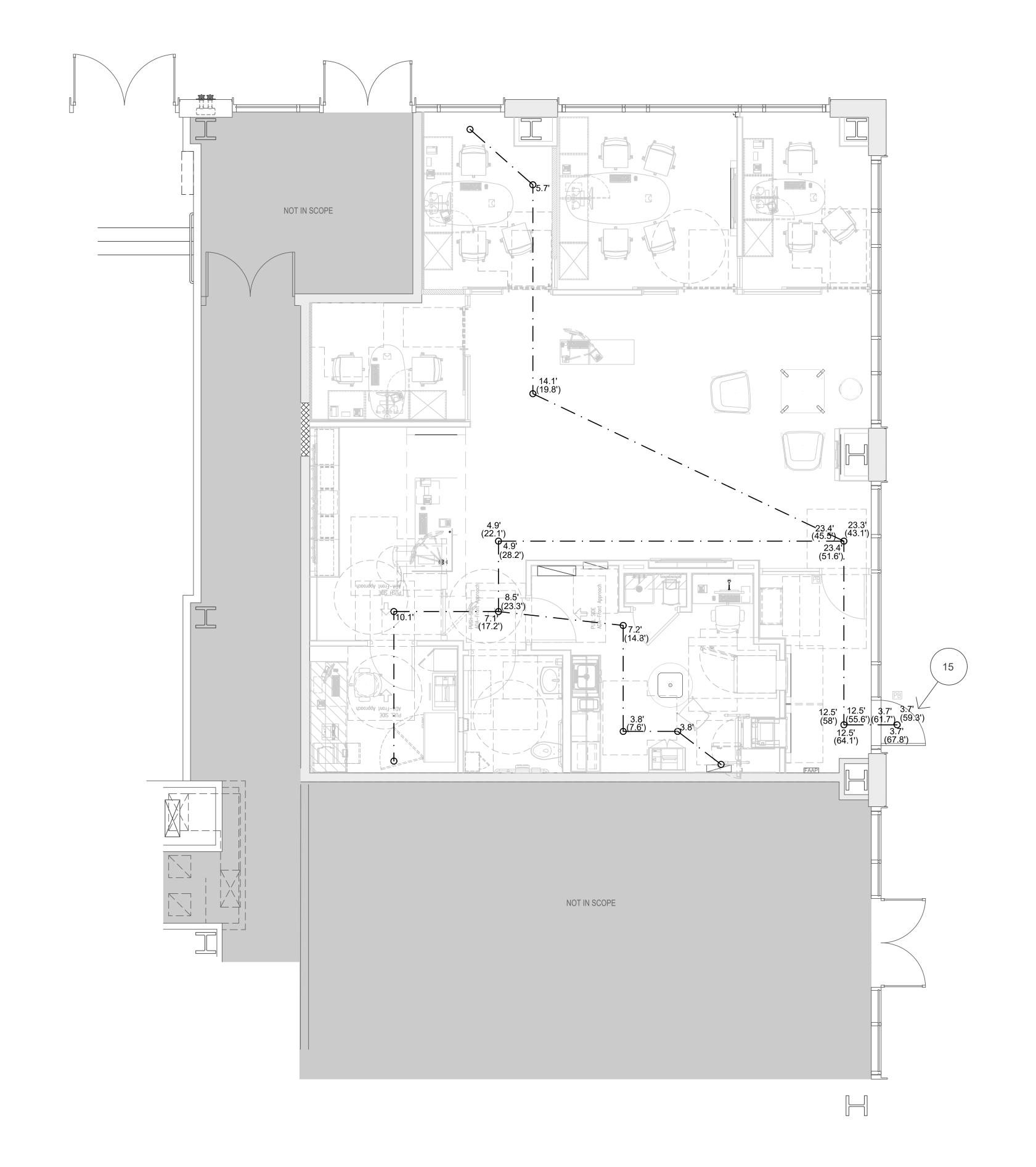
KENDALL SQUARE
610 Main Street

610 Main Street Cambridge, MA 02139

DOOR & FRAME DETAILS

ISSUE TYPE:
CONSTRUCTION DOCUMENTS
ISSUE DATE:
03/31/2022
DRAWN BY:





BUILDING CODE INFORMATION

PROJECT: CITIZENS BANK - KENDALL SQUARE LOCATION: 610 Main Street, Cambridge, MA 02139 FLOORS (SCOPE OF WORK ONLY): 1

BUILDING OVERVIEW

APPLICABLE CODES

Mechanical

Zoning 780 CMR Massachusetts State Building Code, 9th Edition

Building Code 780 CMR MA Amendments to the IBC 2015 based on: ICC International Building Code (IBC), 2015

Uniform Fire Code ICC International Fire Code (IFC), 2015

Life Safety Code 527 CMR MA Fire Safety Code based on:

NFPA 1, 2015 Fire Code

Accessibility 521 CMR MA Accessibility Regulations based on: ICC/ANSI A117.1-2009

2010 ADA Standards for Accessible Design

Electrical 527 CMR MA 12: 00 ELECTRICAL CODE BASED ON

NATIONAL ELECTRIC CODE (NEC), 2020 NFPA 70, 2020

248 CMR MA 2017 based on: ICC International Mechanical Code (IMC), 2015

Plumbing 248 CMR MA Plumbing Regulations 2017 based on: ICC International Plumbing Code (IPC), 2015

Energy Conservation 780 CMR MA 9th Edition Chapter 13 based on:

ICC International Energy Conservation Code (IECC), 2018
ASHRAE 90.1

BUILDING CODE ANALYSIS

This analysis was performed using the below listed code requirements with any associated amendments as per the state of Massachusetts.

BUILDING SIZE: 1,575 SF

Occupancy Load: Business area 100 gross sf/occupant. 1,575 /100 = 15 Occupants.

Egress Width: Egress Components 0.2" per occupant (15 x 0.2" = 3") 36" min provided.

Number of Exits: 1 Provided

Travel Distance: Maximum Allowable: 200 ft. (Sprinklered), Provided: 67.8'

CHAPTER 3 - USE & OCCUPANCY CLASSIFICATION

302.1 Occupancy and Use Refer to Section 304-Business Occupancies. The Tenant space will be occupied as a Business Use (Use Group B)

BUILDING ELEMENTS AND MATERIALS

All interior construction & finishes will be provided as per the requirements of Sections 602 & 703, respectively.

FIRE PROTECTION

The proposed fit-out will meet and/or exceed all fire protection requirements as outlined in Chapter 9.

MEANS OF EGRESS

The proposed fit-out will meet and/or exceed all egress requirements as outlined in Chapter 10.

ACCESSIBILITY

All work performed will comply with the above listed accessibility guidelines.

ELECTRICAL

All work performed will comply with the above listed electrical code(s).

MECHANICAL

All work performed will comply with the above listed mechanical code(s).

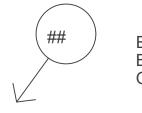
STRUCTURAL

No impact to structural items through proposed interior fit-out.

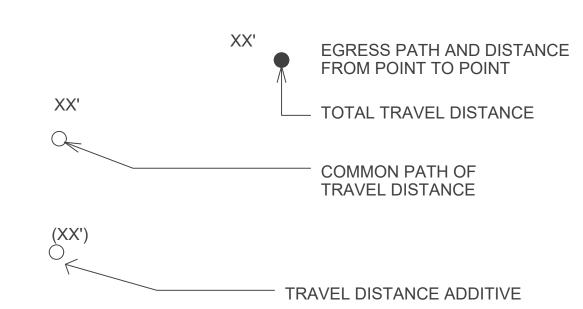
ENERGY CONSERVATION

All work performed will comply with the above listed energy conservation code(s).

EGRESS KEY



EGRESS LOAD BASED ON CALCULATED OCCUPANCY





ARCHITECTURE
INTERIOR ARCHITECTURE
SPACE PLANNING
FACILITIES MANAGEMENT
PROJECT MANAGEMENT

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610 Main Street

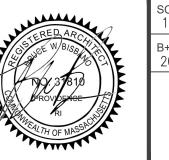
Cambridge, MA 02139

CODE REVIEW

ISSUE TYPE:
CONSTRUCTION DOCUMENTS

ISSUE DATE:
03/31/2022

DRAWN BY:
CP



B+A PROJECT NO: 2021.56

A00.33

DEMOLITION KEYNOTES

- DO1 PROVIDE TRENCH IN FLOOR FOR NEW FLOOR BOX. COORDINATE WITH A03.01 POWER & COMMUNICATION PLAN FOR DETAILS.
- DO2 STRIP AND PREP ALL SURFACES FOR NEW FINISHES.
- DO3 REMOVE EXISTING CEILING AND LIGHTING. PATCH ANY EXPOSED OR DAMAGED SURFACES.
- DO4 REMOVE EXISTING DOOR AND FRAME. OPENING TO BE INFILLED.

DEMOLITION NOTES

- A. COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND REGULATIONS, BUILDING DESIGN STANDARDS AND CONTRACTOR RULES AND REGULATIONS, PERTAINING TO SAFETY OF PERSONS, PROPERTY & ENVIRONMENTAL
- B. PROVIDE AND MAINTAIN TEMPORARY BARRICADES, LIGHTING AND GUARDRAILS AS REQUIRED BY APPLICABLE CODES AND REGULATIONS TO PROTECT OCCUPANTS OF BUILDING, PEDESTRIANS AND WORKERS.
- C. ERECT AND MAINTAIN DUST-PROOF PARTITIONS AS REQUIRED TO PREVENT THE SPREAD OF DUST, FUMES, SMOKE, ETC. TO OTHER PARTS OF THE BUILDING. UPON COMPLETION, REMOVE TEMPORARY PARTITIONS AND REPAIR DAMAGED SURFACES TO MATCH ADJACENT SURFACES.
- D. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT AS REQUIRED TO COMPLETE DEMOLITION EXCEPT THOSE ITEMS TO BE REUSED, RETURNED TO OWNER, OR OTHERWISE DIRECTED. IF DEMOLITION IS PERFORMED IN EXCESS OF WHAT IS REQUIRED, RESTORE AFFECTED AREAS AT NO COST TO THE OWNER.
- E. REMOVE FROM SITE AND LEGALLY DISPOSE ALL REFUSE, DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS.
- F. REMOVE ABANDONED HVAC EQUIPMENT, INCLUDING DUCT WORK UNLESS OTHERWISE NOTED.
- G. REMOVE ABANDONED ELECTRICAL, TELEPHONE AND DATA CABLING AND DEVICES, UNLESS OTHERWISE NOTED.
- A. WHERE INDICATED, REMOVE ALL PARTITIONS IN THEIR ENTIRETY, INCLUDING GYPSUM WALL BOARD AND PLASTER PARTITIONS. REMOVE ALL ASSOCIATED STUDS, TRACKS, FINISHES AND ELECTRICAL WIRING DOWN TO PANEL.
- 3. <u>DOORS AND FRAMES:</u> A. WHERE INDICATED, REMOVE DOORS, FRAMES AND RELATED HARDWARE. COORDINATE STORAGE OF SALVAGED MATERIALS WITH OWNER/TENANT IF NOT BEING RE-USED AS PART OF THIS PROJECT.
- B. DEMOLITION CONTRACTOR SHALL NOT REMOVE ANY DOORS THAT ARE PART OF THE COMMON AREA (I.E. BUILDING CORE, FIRE EXIT DOORS AND ELEVATOR DOORS) OR DOORS NOT PART OF THE AREA OF WORK UNLESS OTHERWISE
- A. WHERE INDICATED, REMOVE EXISTING LIGHTING, DIFFUSERS, RETURN GRILLES, EXIT SIGNS, FIRE ALARM DEVICES AND ALL RELATED WIRING. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- B. WHERE INDICATED, REMOVE EXISTING CEILING GRID AND CEILING TILE. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION REGARDING IMPACTED SYSTEMS.
- 5. <u>MILLWORK:</u>
 A. WHERE INDICATED, G.C. SHALL REMOVE EXISTING MILLWORK.
- 6. <u>WINDOW TREATMENTS (IF APPLICABLE):</u> A. EXISTING WINDOW TREATMENTS TO BE REMOVED UNLESS NOTED OTHERWISE.
- 7. FREESTANDING COLUMNS:
 A. ALL FREE STANDING GYPSUM BOARD COLUMN ENCLOSURES AND ASSOCIATED FRAMING TO BE CAREFULLY REMOVED UNLESS OTHERWISE NOTED. G.C. TO IDENTIFY AND PROTECT ANY PLUMBING, HVAC OR ELECTRICAL RISERS TO
- 8. <u>FINISHES</u>: A. WALLS:
 - AT ALL WALLS AND COLUMN ENCLOSURES TO REMAIN, G.C. TO CAREFULLY REMOVE ALL EXISTING WALL FINISHES (WALL COVERING, WALL BASE, PANELING, ETC.) AND PREPARE WALL SURFACE TO RECEIVE NEW WALL FINISHES.
 - WHERE INDICATED, G.C. TO REMOVE ALL EXISTING FLOORING AND ADHESIVE TO SLAB INCLUDING CARPET, CARPET TILE, UNDERLAY, TILE AND RESILIENT FLOORING.
- 9. <u>GENERAL MEP/FP NOTES:</u> A. REFER TO MEP DRAWINGS FOR SPECIFIC DEMOLITION NOTES.
- B. ALL MECHANICAL, ELECTRICAL AND PLUMBING DEMOLITION SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF LICENSED PLUMBER AND ELECTRICIAN, SHALL BE ON-SITE TO SAFE OFF RESPECTIVE EQUIPMENT PRIOR TO DEMOLITION.
- C. ALL MECHANICAL, ELECTRICAL AND PLUMBING DEMOLITION TO BE VERIFIED BY ENGINEER. REFER TO MEP DRAWINGS FOR
- D. THE G.C. SHALL REMOVE ALL ABANDONED ELECTRICAL WORK AFTER DEMOLITION, INCLUDING SWITCH BOXES, ELECTRICAL, TELEPHONE AND DATA OUTLETS, JUNCTION BOXES, PLATES OR ANY OTHER ELECTRICAL/DATA AND TELEPHONE WIRING EQUIPMENT AND ALL RELATED WIRING BACK TO THE ELECTRICAL OR TELEPHONE CLOSET. COORDINATE WITH TELECOMMUNICATIONS VENDOR AND CLIENT FIELD REPRESENTATIVE. IF ANY ITEM IS IN QUESTION, DO NOT PERFORM DEMOLITION WITHOUT APPROVAL FROM ARCHITECT, ENGINEER OR BANK REPRESENTATIVE. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- 10. <u>MECHANICAL:</u>
 A. PROVIDE HEPA FILTERS AT ALL AIR INTAKES FOR EXISTING AIR HANDLING SYSTEMS SCHEDULED TO REMAIN OR IN OPERATION DURING PHASED CONSTRUCTION.
- 11. <u>ELECTRICAL/FIRE ALARM:</u> A. ANY REMOVALS OF ELECTRICAL EQUIPMENT, INCLUDING PANELS, DEVICES, CIRCUITS, ETC. SHALL BE DONE IN SUCH A WAY AS TO ALLOW THE OPERATIONS OF ADJACENT BANK OR TENANT AREAS TO CONTINUE WITHOUT INTERRUPTION OF ANY SERVICE DURING DEMOLITION AND CONSTRUCTION. THE CONTRACTOR SHALL TAKE ANY NECESSARY PRECAUTIONS IN ORDER TO MAINTAIN SUCH CONTINUOUS OPERATIONS.
- B. ELECTRICAL CONDUITS IN EXISTING WALLS WHICH ARE DEEMED TO BE REMOVED, SHALL BE DEMOLISHED, UNLESS THEY RUN FROM FLOOR SLAB TO FLOOR SLAB. COORDINATE WITH ENGINEER AS REQUIRED.
- C. WHERE EXISTING ELECTRICAL PANEL(S) ARE SCHEDULED TO REMAIN, G.C. SHALL REMOVE ALL HOMERUNS TO THE PANELS AND MAKE CIRCUIT BREAKERS SPARE FOR REUSE.
- D. REMOVE ALL ABANDONED ELECTRICAL WORK AFTER DEMOLITION, INCLUDING SWITCH BOXES, ELECTRICAL, TELEPHONE AND DATA OUTLETS, JUNCTION BOXES, PLATES OR ANY OTHER ELECTRICAL/DATA AND TELEPHONE WIRING EQUIPMENT AND ALL RELATED WIRING BACK TO THE ELECTRICAL OR TELEPHONE CLOSET. COORDINATE WITH TELECOMMUNICATIONS VENDOR AND CLIENT FIELD REPRESENTATIVE. IF ANY ITEM IS IN QUESTION, DO NOT PERFORM DEMOLITION WITHOUT APPROVAL FROM ARCHITECT/ENGINEER OR PROJECT MANAGER.
- E. PROTECT EXISTING FIRE ALARM SPEAKER/STROBES, PULL STATIONS, SPEAKERS, SMOKE DETECTORS, HEAT DETECTORS, ETC. THROUGHOUT AREA OF WORK. REFER TO MEP DRAWINGS FOR MORE INFORMATION.
- F. WHERE POWER/DATA FLOOR OUTLETS ARE TO BE REMOVED, CONTRACTOR SHALL INFILL CONCRETE SLAB AS REQUIRED. G. WHERE NEW FLOOR/DATA/AV BOXES ARE INDICATED, G.C. TO TRENCH CONCRETE SLAB ON GRADE FOR BANK STANDARD RECESSED FLOOR BOX OR CORE 6" DIA. HOLE THROUGH CONCRETE FLOOR SLAB FOR BANK STANDARD RECESSED POKE-THRU FLOOR BOX.
- 12. <u>TELECOM/DATA:</u> A. REMOVE ALL TELEPHONE AND DATA CABLING FROM DEVICE BACK TO THE RACKS OF THE EXISTING COMMUNICATIONS CLOSET. COORDINATE WITH TELECOMMUNICATIONS VENDOR AND CLIENT'S FIELD REPRESENTATIVE.
- 13. <u>PLUMBING:</u>
 A. REFER TO PLUMBING DRAWINGS FOR EXTENT OF DEMOLITION AND ADDITIONAL INFORMATION.
- 14. <u>FIRE PROTECTION:</u>
 A. REFER TO FIRE PROTECTION DRAWINGS FOR EXTENT OF DEMOLITION AND ADDITIONAL INFORMATION.
- 15. <u>STRUCTURAL SUPPORT:</u>
 A. PRIOR TO THE START OF DEMOLITION WORK, GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IF ANY PARTITIONS SCHEDULED FOR REMOVAL ARE QUESTIONABLE TO BE LOAD BEARING DUE TO EXPOSURE FROM MINOR, SELECTIVE

DEMOLITION LEGEND

EXISTING PARTITIONS, EQUIPMENT, ETC. (SHOWN DASHED) TO BE



EXISTING DOOR AND FRAME TO BE REMOVED

EXISTING CONSTRUCTION TO REMAIN



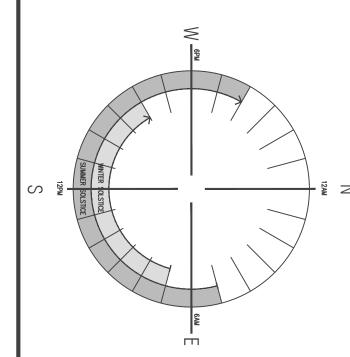
AREA TO BE REMOVED - SEE SCOPE NOTES FOR ITEMS TO BE



EXISTING STRUCTURAL SLAB AND STEEL FRAMING TO BE REMOVED



WALL PATCHING AFTER DEMO





INTERIOR ARCHITECTURE SPACE PLANNING FACILITIES MANAGEMENT PROJECT MANAGEMENT

ARCHITECTURE

BISBANO + ASSOCIATES, INC. RISING SUN MILLS | 188 VALLEY STREET | PROVIDENCE, RI | 02909 VOICE 401.404.8310 FAX 401.404.8311 WWW.BISBANO.COM

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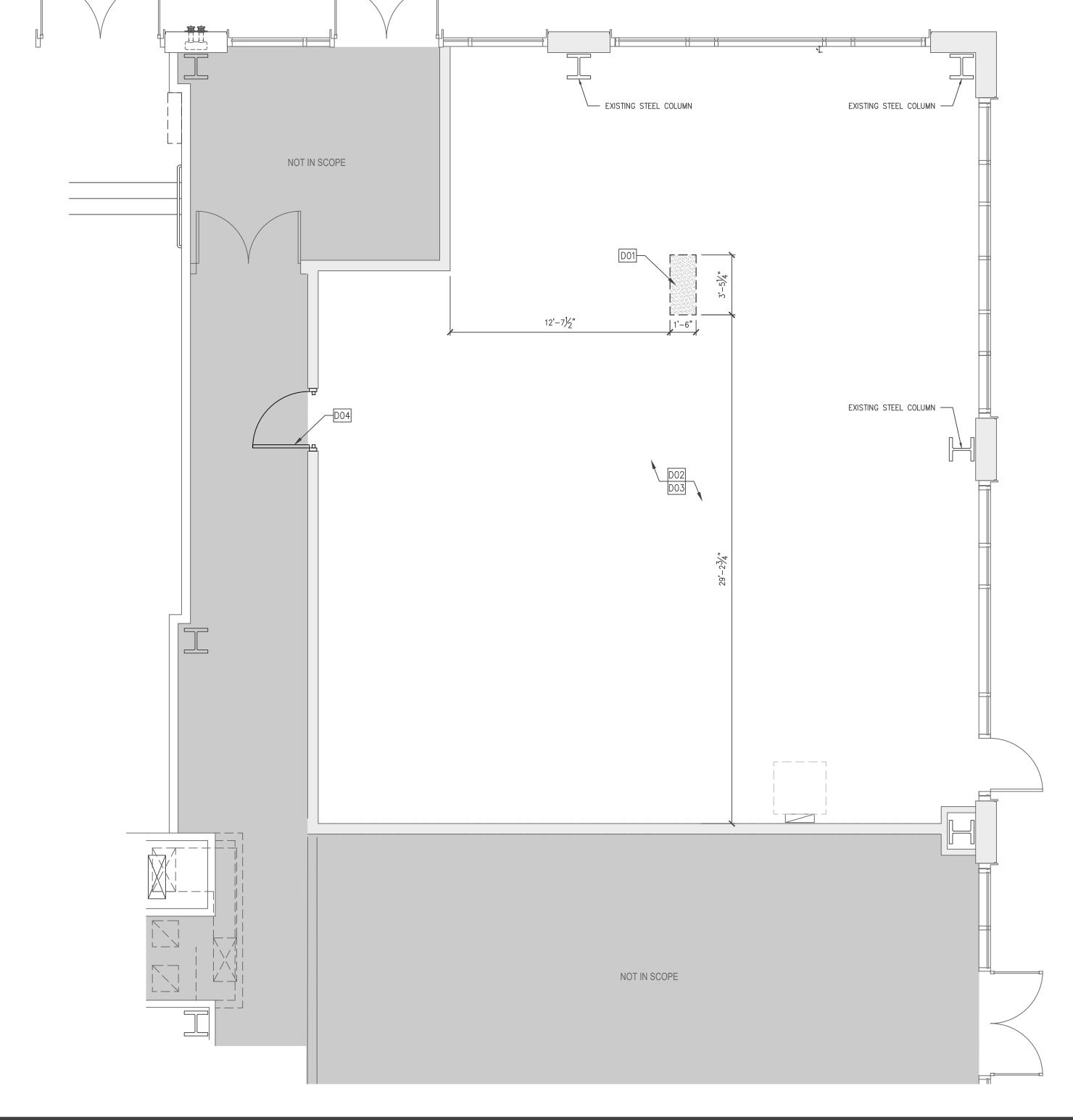
KENDALL SQUARE

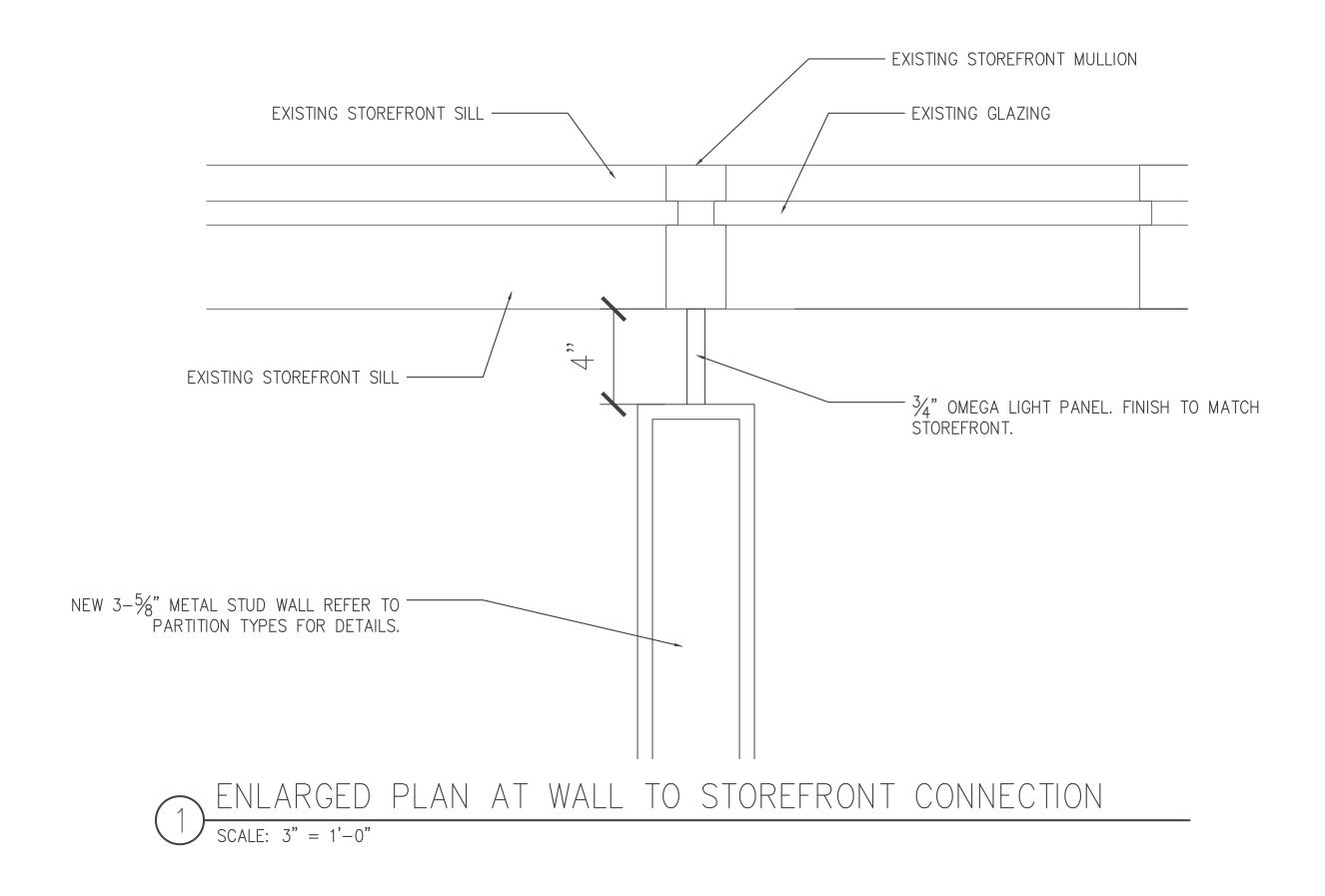
610 Main Street Cambridge, MA

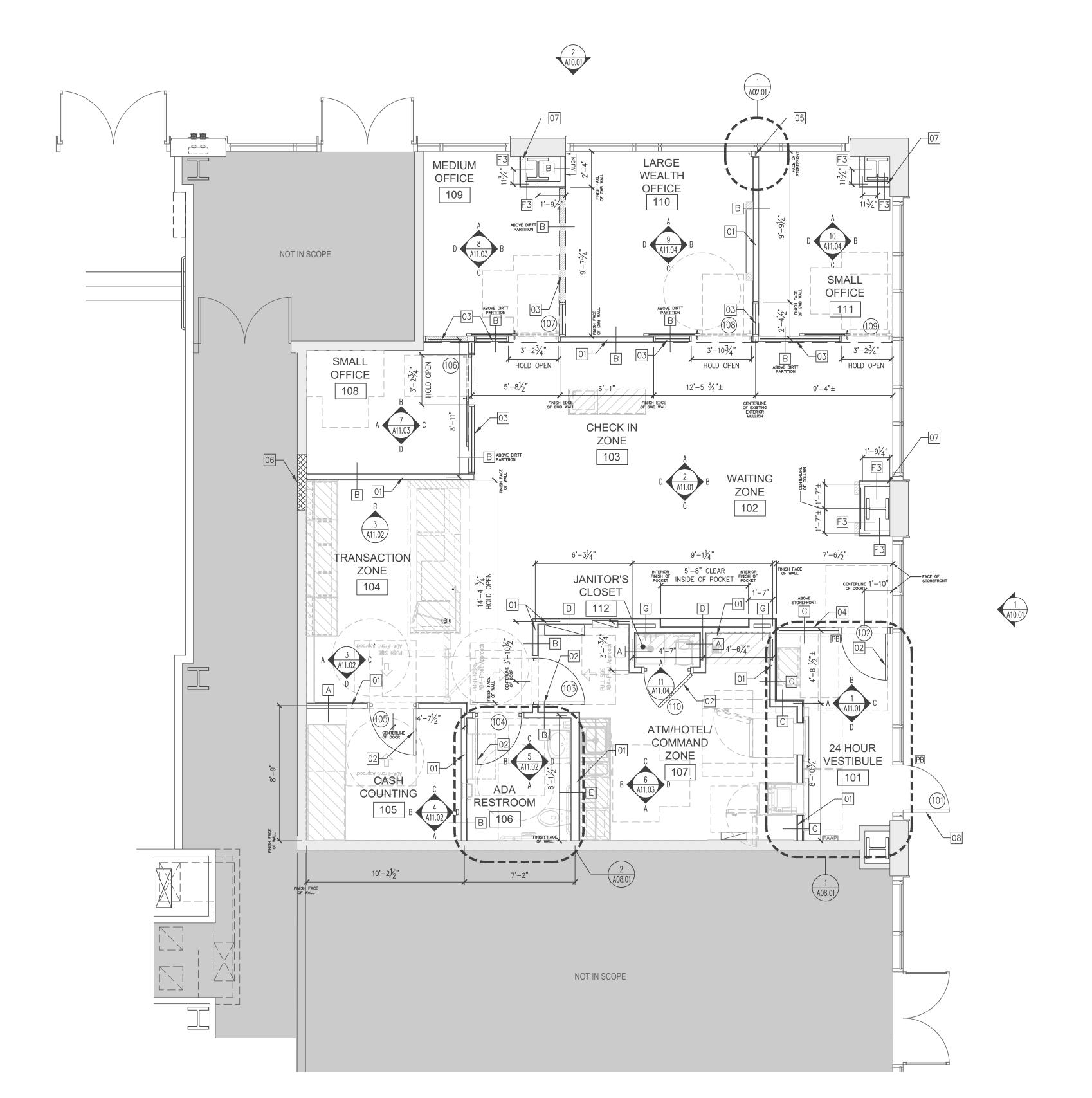
CONSTRUCTION DEMOLITION PLAN

CONSTRUCTION DOCUMENTS









KEYNOTES

- DI PROVIDE NEW FULL HEIGHT GWB PARTITION. REFER TO PARTITION TYPES ON A12.01 FOR DETAILS.
- 2 PROVIDE NEW DOOR, FRAME AND HARDWARE. REFER TO DOOR SCHEDULE ON A00.30 FOR DETAILS.
- NEW DIRTT PARTITION AT 10'-0" AFF PROVIDED BY CFG VENDOR.
- $\boxed{04}$ PROVIDE NEW KAWNEER ALUMINUM STOREFRONT SYSTEM WITH $\frac{1}{4}$ " TEMPERED SAFETY GLAZING. HEIGHT OF SYSTEM TO BE 7'-2" TO MATCH INTERMEDIATE MULLION OF EXISTING STOREFRONT. VERIFY IN FIELD. FINISH OF SYSTEM TO MATCH EXISTING EXTERIOR FINISH.
- 05 Provide $\frac{3}{4}$ " omega light panel. Color to match existing storefront.
- 06 INFILL OPENING FLUSH WITH EXISTING ADJACENT WALL.
- PROVIDE GWB FURRED OUT PARTITION AROUND EXISTING COLUMN. MAINTAIN INTEGRITY OF SPRAY FIREPROOFING AROUND COLUMN.
- 08 EXISTING DOOR HARDWARE TO BE MODIFIED. REFER TO DOOR AND HARDWARE SCHEDULS ON A00.30.

GENERAL NOTES

- 1. PATCH/REPAIR PERIMETER GYPSUM WALL SYSTEMS AT LOCATIONS OF PRIOR PARTITIONS, COLUMN ENCLOSURES AND ALL CORE WALLS. TYPICAL.
- 2. PROVIDE FIRE RETARDANT WALL BLOCKING AT FURNITURE, AUDIO VISUAL AND MILLWORK LOCATIONS. GC TO COORDINATE REQUIREMENTS WITH MILLWORK DETAILS, FURNITURE, AUDIO/VISUAL AND BRANDING DETAILS.
- 3. PROVIDE DOUBLE STUDS AT ALL DOOR OPENINGS.
- 4. PROVIDE NECESSARY FRAMING AS REQUIRED AROUND HVAC AND PLUMBING EQUIPMENT OPENINGS IN WALLS AND CEILINGS.
- 5. PATCH/REPAIR EXISTING SURFACES WHICH ARE DAMAGED WITH SKIMCOAT. IF REQUIRED, FURR/OUT WALL AND ADD 5" GYPSUM BOARD OR LAMINATE OVER EXISTING SURFACES WITH $\frac{5}{8}$ " GYPSUM BOARD.
- 6. WHERE ORIGINAL CEILING HEIGHT IS LOWER THAN NEW CEILING HEIGHT, GC TO EXTEND PARTITIONS AS REQUIRED TO MEET NEW CEILING HEIGHT AND/OR AS REQUIRED TO PROVIDE PROPER PARTITION TYPE.
- 7. GC TO LAYOUT PARTITIONS FOR REVIEW BY ARCHITECT/ARCHITECT'S FIELD REPRESENTATIVE PRIOR TO COMMENCING CONSTRUCTION OF PARTITIONS. GC TO PROVIDE
- TWO-WEEKS NOTICE TO ENSURE WORK IS NOT DELAYED. 8. REFER TO THIS PLAN AND DWG. A12.01 FOR PARTITION TYPES.
- 9. SEE FIRE EXTINGUISHER SPECIFICATIONS ON EQUIPMENT PLAN A07.01.
- 10. GC SHALL VERIFY EXISTING DOOR HARDWARE TO REMAIN IS FUNCTIONING PROPERLY. REPAIR OR REPLACE DAMAGED HARDWARE FOR SMOOTH OPERATION AND ADA COMPLIANCE. REFER TO DWG. A00.30 FOR MORE INFORMATION.
- 11. PROVIDE WATER LINE AT KITCHENETTE AS SPECIFIED BY MFG. FOR COFFEE MAKERS, ICE MACHINES, WATER FILTERS, FREEZERS, ETC. REFER TO DWG. A06.01 EQUIPMENT PLAN AND SCHEDULE AS WELL AS PLUMBING PLANS FOR ADDITIONAL INFORMATION.
- 12. REPAIR ALL EXISTING FLOORS WHERE REQUIRED. PROPERLY LEVEL AND MAKE SMOOTH SURFACE AND PREPARE SUBSTRATE TO RECEIVE NEW FLOOR FINISH.
- 13. STUD LOCATIONS SHALL BE COORDINATED WITH MOUNTING DIMENSIONS AND ORIENTATION OF ALL DEVICES AS DESCRIBED ON TYPICAL MOUNTING DWG. A00.00(UON) AND DWG. A03.01 POWER & COMMUNICATION PLAN. PROVIDE CROSS STUD AS REQUIRED TO ASSURE
- 14. CROSS BRACE ALL DOOR FRAMES/HEADERS AND SECURE TO STRUCTURE ABOVE.
- 15. ALL EXISTING TO REMAIN ACCESS PANELS, SWITCHES, POWER AND TELEPHONE OUTLETS SHALL BE REPLACED WITH NEW AND BROUGHT OUT TO NEW FINISHED SURFACE. PROVIDE NEW FINISH MATERIAL OVER ACCESS PANEL TO MATCH ADJACENT FINISH.
- 16. GC SHALL REPAIR ALL EXISTING AND NEW HOLES AND PENETRATIONS IN ALL FIRE RATED PARTITIONS, FLOORS AND CEILINGS TO MAINTAIN EXISTING FIRE RATING REQUIREMENT
- 17. GC IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ANY DAMAGED EXISTING EQUIPMENT, SYSTEMS AND FINISHES.
- 18. GC IS RESPONSIBLE FOR REPAIRING ALL EXISTING PERIMETER MULLIONS WHERE REQUIRED.
- 19. IF APPLICABLE, REMOVE EXISTING WALL FINISHES AND RECEPTACLES AT PERIMETER COLUMNS. PATCH AND REPAIR COLUMN ENCLOSURES TO PROVIDE A CLEAN AND CONTINUOUS SURFACE FROM SLAB TO METAL DECK ABOVE.
- 20. ALL DIMENSIONS ARE TO CENTER LINE OF STUD UNLESS NOTED OTHERWISE.
- 21. COORDINATE AND PROVIDE BLOCKING FOR MILLWORK AND ITEMS ATTACHED OR MOUNTED TO WALLS OR CEILINGS.
- 22. WHERE EXISTING ACCESS PANELS CONFLICT WITH CONSTRUCTION, RELOCATE PANELS TO ALIGN WITH AND FIT WITHIN NEW CONSTRUCTION.
- 23. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO START OF CONSTRUCTION.
- 25. PROVIDE SUBMITTALS FOR ALL MILLWORK FOR APPROVAL BY ARCHITECT.
- 26. PROVIDE MATERIAL AND COLOR SAMPLES FOR ALL SPECIFIED MATERIALS FOR REVIEW AND APPROVAL BY ARCHITECT.
- 27. REFER TO DWG. A07.01 FOR BANKING EQUIPMENT, VERIFY ALL EQUIPMENT WITH VENDOR.
- OF ADJACENT PERPENDICULAR PARTITION. 30. VERIFY WITH ARCHITECT IF ANY ADJUSTMENTS ARE REQUIRED TO MAINTAIN "HOLD-TO"

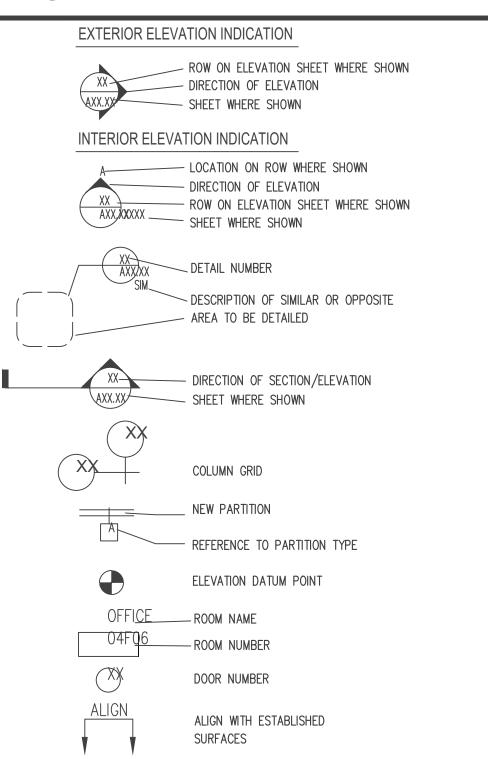
29. UNLESS OTHERWISE NOTED, LOCATE HINGE SIDE OF ALL DOORS 6" FROM FINISHED FACE

31. REFER TO A06.01 FOR MILLWORK CALLOUTS.

DIMENSIONS REGARDING THE "DIRTT" WALL SYSTEM.

32. WHEN SELF LEVELING FLOORS, SLOPE SHOULD NOT EXCEED $\frac{3}{16}$ " PER FOOT.

LEGEND

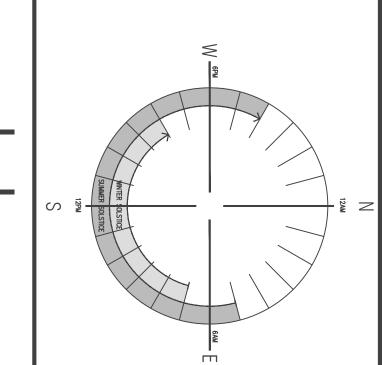


- MILLWORK SCHEDULE TAG (IF USED)

FIRE EXTINGUISHER WITHOUT CABINET

PROVIDE BLOCKING FOR MILLWORK UNITS

FIRE EXTINGUISHER CABINET





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KENDALL SQUARE

610 Main Street Cambridge, MA 02139

CONSTRUCTION PLAN

CONSTRUCTION DOCUMENTS SSUE DATE: DRAWN BY:



KEYNOTES

- 01 ELECTRICAL PANEL. COORDINATE WITH ELECTRICAL DRAWINGS.
- 02 FIRE ALARM ANNUNICATOR/PANEL. COORDINATE WITH LIFE SAFETY/FA DRAWINGS.
- 03 BURGLAR ALARM CONTROL PANEL. COORDINATE WITH A03.02 "BRANCH SECURITY PLAN," & CITIZENS PHYSICAL SECURITY DRAWINGS. PANEL & ASSOCIATED RECEPTACLES TO BE MOUNTED ON $\frac{3}{4}$ " SURFACE MOUNTED

FIRE-RATED PLYWOOD BACKER, PAINTED BLACK.

- 04 PROVIDE (1) 110v QUAD RECEPTACLE FOR BURGLAR ALARM CONTROL PANEL. FINAL REQUIRED HEIGHT AND LOCATION TO BE COORDINATED WITH CITIZENS PHYSICAL SECURITY DRAWINGS.
- 05 PROVIDE (1) SINGLE DATA RECEPTACLE FOR BURGLAR ALARM CONTROL PANEL. FINAL REQUIRED HEIGHT AND LOCATION TO BE COORDINATED WITH CITIZENS PHYSICAL SECURITY DRAWINGS.
- 06 VESTIBULE ACCESS CONTROL PANEL. COORDINATE WITH A03.02 "BRAND SECURITY PLAN," & CITIZENS PHYSICAL SECURITY DRAWINGS. PANEL & ASSOCIATED RECEPTACLES TO BE MOUNTED ON 3/4" SURFACE MOUNTED FIRE-RATED PLYWOOD BACKER, PAINTED BLACK.
- 07 PROVIDE (1) 110v DUPLEX RECEPTACLE FOR VESTIBULE ACCESS CONTROL PANEL. FINAL REQUIRED HEIGHT AND LOCATION TO BE COORDINATED WITH CITIZENS PHYSICAL SECURITY DRAWINGS.
- 08 PROVIDE (1) 110v DUPLEX RECEPTACLE FOR NETWORK VIDEO RECORDER. NETWORK VIDEO RECORDER TO BE MOUNTED WITHIN IT RACK. FINAL REQUIRED HEIGHT AND LOCATION TO BE COORDINATED WITH CITIZENS PHYSICAL SECURITY DRAWINGS.
- 09 PROVIDE (1) SINGLE DATA RECEPTACLE FOR NETWORK VIDEO RECORDER. NETWORK VIDEO RECORDER TO BE MOUNTED WITHIN IT RACK. FINAL REQUIRED HEIGHT AND LOCATION TO BE COORDINATED WITH CITIZENS PHYSICAL SECURITY DRAWINGS.
- 10 PROVIDE (1) 110v DUPLEX RECEPTACLE FOR POE SWITCH. POE SWITCH TO BE MOUNTED WITHIN IT RACK. FINAL REQUIRED HEIGHT AND LOCATION TO BE COORDINATED WITH CITIZENS PHYSICAL SECURITY DRAWINGS.
- 11 PROVIDE 2 /4 CABLE FOR KEYPAD, WIRED BACK TO BURGLAR ALARM CONTROL PANEL.
- 12 NOT USED
- 13 NOT USED
- 14 PROVIDE 22 /2 CABLE FOR AMBUSH CANCEL BUTTON, WIRED BACK TO BURGLAR ALARM CONTROL PANEL.
- 15 PROVIDE 2 % CABLE FOR ATM POINT OF CONNECTION, DOOR CONTACT, WIRED BACK TO BURGLAR ALARM CONTROL PANEL.
- 16 PROVIDE $\frac{22}{4}$ CABLE FOR ATM POINT OF CONNECTION, HEAT/VIBE CONNECTION, WIRED BACK TO BURGLAR ALARM CONTROL PANEL.

- 17 PROVIDE $^{22}\!\!/_{\!\!4}$ CABLE FOR NIGHT DEPOSIT POINT OF CONNECTION, DOOR CONTACT, WIRED BACK TO BURGLAR ALARM CONTROL PANEL.
- 18 PROVIDE 22 4 CABLE FOR NIGHT DEPOSIT POINT OF CONNECTION, HEAT/VIBE CONNECTION, WIRED BACK TO BURGLAR ALARM CONTROL PANEL.
- 19 PROVIDE $\frac{22}{4}$ Cable for safe point of connection, door contact, WIRED BACK TO BURGLAR ALARM CONTROL PANEL.
- 20 PROVIDE 22/4 CABLE FOR SAFE POINT OF CONNECTION, HEAT/VIBE CONNECTION, WIRED BACK TO BURGLAR ALARM CONTROL PANEL.
- 21 PROVIDE (1) $\frac{22}{4}$ CABLE FOR EACH TCR POINT OF CONNECTION, DOOR CONTACT (UPPER & LOWER), WIRED BACK TO BURGLAR ALARM CONTROL PANEL.
- 22 PROVIDE (1) $\frac{22}{4}$ CABLE FOR EACH TCR POINT OF CONNECTION, HEAT/VIBE CONNECTION (UPPER & LOWER), WIRED BACK TO BURGLAR ALARM CONTROL PANEL.
- 23 NOT USED
- 24 NOT USED
- 25 PROVIDE CAT 6 CABLING FOR SECURITY CAMERAS. PROVIDE AN ADDITIONAL 6 FEET OF CABLING AT EITHER END OF CONNECTION FOR POSSIBLE FUTURE RELOCATION. FOR SECURITY CAMERA TYPES, REFER TO A03.02 "BRANCH SECURITY PLAN."
- 26 PROVIDE (1) 110v DUPLEX RECEPTACLE FOR 17" SECURITY VIDEO MONITOR. FINAL REQUIRED HEIGHT AND LOCATION TO BE COORDINATED WITH CITIZENS PHYSICAL SECURITY DRAWINGS.
- 27 PROVIDE RG-59 COAX CABLE WIRED FROM 17" SECURITY VIDEO MONITOR BACK TO NETWORK VIDEO RECORDER. NOTE THAT IF MULTIPLE SECURITY VIDEO MONITORS ARE USED WITHIN A SITE, CONNECT THIS CABLE TO A SPLITTER AT THE NETWORK VIDEO RECORDER HEAD CONNECTION.
- 28 NOT USED
- 29 NOT USED
- 30 PROVIDE COMPOSITE CABLE CONSISTING OF 186, 184, 224 & 16/2 CABLES FROM PARABIT READER TO EXIT DEVICE/LATCH CONTROLLER. SEE DOOR & HARDWARE SCHEDULE FOR EXIT DEVICE SPECIFICATIONS.
 - PROVIDE 18/ CABLE FOR PARABIT READER SWITCH OVERRIDE. PROVIDE (2) $\frac{22}{4}$ Cables for parabit reader wired back to burglar ALARM CONTROL PANEL.
- 31 PROVIDE JUNCTION BOX ABOVE CEILING FOR ELECTRIFIED LOCK.
- 32 PROVIDE (1) ISOLATED GROUND DUPLEX FOR ATM AT 18" AFF.

NOT IN SCOPE

OFFICE

108

- 33 PROVIDE (1) SINGLE DATA RECEPTACLE FOR ATM AT 18" AFF.
- 34 PROVIDE JUNCTION BOX ABOVE CEILING ON ATM ROOM SIDE CENTERED ABOVE ATM UNIT FOR ILLUMINATED ATM SURROUND/GLOW WALL APPLICATION.
- 35 PROVIDE JUNCTION BOX ABOVE CEILING FOR ILLUMINATED CHECK-IN ZONE LETTERSET. REFER TO A11.00 SERIES DRAWINGS, INTERIOR ELEVATIONS, FOR LETTERSET LOCATION.
- 36 PROVIDE POWER & DATA RECEPTACLES FOR TELLER WORKSTATIONS. REFER TO DRAWINGS PROVIDED BY MILLWORK VENDOR FOR TELLER MILLWORK DETAILS AND PLACEMENT/WIRING DIRECTION.
- 37 PROVIDE 1" CONDUIT WITH PULL STRING STUBBED FROM 6" ABOVE NEAREST ACCESSIBLE CEILING TO A DUAL GANG JUNCTION BOX BELOW TELLER LINE FOR POWER. REFER TO DRAWINGS PROVIDED BY MILLWORK VENDOR FOR TELLER MILLWORK DETAILS AND JUNCTION BOX PLACEMENT DIRECTION. THIS DIRECTION TO BE UTILIZED FOR ANCHORED TELLER MILLWORK STATIONS.
- 38 PROVIDE 2" CONDUIT WITH PULL STRING STUBBED FROM 6" ABOVE NEAREST ACCESSIBLE CEILING TO A DUAL GANG JUNCTION BOX BELOW TELLER LINE FOR DATA. REFER TO DRAWINGS PROVIDED BY MILLWORK VENDOR FOR TELLER MILLWORK DETAILS AND JUNCTION BOX PLACEMENT DIRECTION. THIS DIRECTION TO BE UTILIZED FOR ANCHORED TELLER MILLWORK STATIONS.
- 39 PROVIDE 1" CONDUIT WILL PULL STRING STUBBED FROM 6" ABOVE NEAREST ACCESSIBLE CEILING TO A DUAL GANG JUNCTION BOX BELOW TELLER LINE FOR SECURITY WIRING. REFER TO DRAWINGS PROVIDED BY MILLWORK VENDOR FOR TELLER MILLWORK DETAILS AND JUNCTION BOX PLACEMENT DIRECTION. THIS DIRECTION TO BE UTILIZED FOR ANCHORED TELLER MILLWORK STATIONS.
- 40 NOT USED
- 41 NOT USED.
- 42 NOT USED 43 PROVIDE (1) DUPLEX RECEPTACLE ON 20A DEDICATED CIRCUIT FOR FUTURE

HORIZONTALLY TO FIT WITHIN MILLWORK TROUGH.

- OR DAY 1 TCR UNIT. SEE DRAWINGS PROVIDED BY MILLWORK VENDOR FOR TELLER MILLWORK DETAILS AND RECEPTACLE PLACEMENT DIRECTION. 44 PROVIDE (1) DUAL DATA RECEPTACLE FOR FUTURE OR DAY 1 TCR UNIT. SEE
- AND RECEPTACLE PLACEMENT DIRECTION. 45 POWER & DATA RECEPTACLES INSTALLED AT 31" AFF TO BE INSTALLED

DRAWINGS PROVIDED BY MILLWORK VENDOR FOR TELLER MILLWORK DETAILS

46 PROVIDE (1) QUAD RECEPTACLE FOR MUSIC SYSTEM POWER SUPPLY. COORDINATE WITH CITIZENS' MUSIC VENDOR FOR FINAL INSTALLATION

OFFICE

ZONE

102

47 NOT USED

LARGE

110

CHECK IN

ZONE

RESTROOM

NOT IN SCOPE

LOCATION.

- 48 PROVIDE FLOORBOX/POKE-THRU DEVICE FOR CHECK-IN DESK LOCATIONS WHERE SPECIFIED. GC TO FIELD VERIFY APPROPRIATE UNIT VIA EXPLORATORY DEMOLITION AS REQUIRED.
- FOR FLOORBOX LOCATIONS: - MAIN UNIT: LEGRAND WIREMOLD EVOLUTION SERIES, 4 GANG, RFB4E/RFB4E-OG DUPLEX RECEPTACLE BRACKET: RFB6DP (1 QTY.) - COMMUNICATION BRACKET: RFB6GFI (1 QTY.) SURFACE STYLE COVER: 6CTC2SN (1 QTY.)
- FOR POKE-THRU LOCATIONS: - MAIN UNIT: LEGRAND WIREMOLD EVOLUTION SERIES, 6", 6ATC2PAVSN - DATA DEVICE MOUNTING PLATE: 682A SURFACE STYLE COVER: 6CTC2SN (1 QTY.)
- NOTE: COMMUNICATIONS VENDOR TO PROVIDE APPROPRIATE DECORATOR FRAMES FOR HDMI/VGA CONNECTIONS. 49 NOT USED
- 50 PROVIDE JUNCTION BOX ABOVE CEILING FOR CONNECTION TO POWERED DIRTT DEMOUNTABLE PARTITION, PROVIDED BY CITIZENS. GC TO COORDINATE FINAL PLACEMENT REQUIREMENTS WITH DIRTT VENDOR.
- 51 PROVIDE POWER & DATA RECEPTACLES FOR WALL MOUNTED MONITORS. COORDINATE WITH HEIGHTS LISTED ON A03.00, A11.00 & A12.00 SERIES
- 52 PROVIDE HDMI WALL RECEPTACLE AND DIRECT CONNECTION BACK TO WALL MOUNTED MONITOR. HDMI RECEPTACLE TO BE GRAINGER 1 GANG HDMI WALL PLATE IN WHITE. ITEM #14J380, MODEL #7330.
- AT MEETING ROOM LOCATIONS WITH A WALL-MOUNTED MONITOR COMPONENT, RECEPTACLE TO BE INSTALLED AT 32" AFF, HORIZONTALLY. AT COMMUNITY SCREEN/WAITING ZONE LOCATIONS, REFER TO A11.00 SERIES DRAWINGS FOR MOUNTING DIRECTION.
- 53 NOT USED
- 54 PROVIDE JUNCTION BOX FOR REQUIRED POWER SUPPLY AT EXTERIOR ILLUMINATED SIGNAGE COMPONENT LOCATIONS. COORDINATE WITH SIGNAGE VENDOR FOR FINAL LOCATIONS AND SUPPLY REQUIREMENTS.
- 55 PROVIDE WIRELESS DOORBELL BUTTON AT 42" AFF IN WALL MOUNTED CONDITIONS & UNDERCOUNTER AT TELLER MILLWORK CONDITIONS. REFER TO A12.00 SERIES DRAWINGS FOR PLACEMENT AT TELLER MILLWORK CONDITIONS. REFER TO A07.00 SERIES DRAWINGS FOR DOORBELL SPECIFICATION.
- 56 PROVIDE WIRELESS DOORBELL CHIME 6" ABOVE ACCESSIBLE CEILING CONNECTED TO DOORBELL SPECIFICATION IN NOTE #55. REFER TO A03.00 SERIES PLANS FOR LOCATIONS AND CONNECTED UNITS.

LARGED PLAN AT ATM ROOM

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

57 PROVIDE JUNCTION BOX FOR REQUIRED POWER SUPPLY AT INTERIOR ILLUMINATED SIGNAGE COMPONENT LOCATIONS. COORDINATE WITH SIGNAGE VENDOR FOR FINAL LOCATIONS AND SUPPLY REQUIREMENTS.

SYMBOL	DESCRIPTION	MANUFACTURER/MODEL NO.	LOCATION
\$ _{SLV}	ON/OFF SWITCH	SLV — NPODMA WH	CUSTOMER FACING: CHECK—IN ZONE WALL WASHERS MEETING ROOM OR OFFICE, PENDANT BACK OF HOUSE: JANITOR'S CLOSET ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
\$ SLVD	SWITCH, DIMMER	SLVD — NPODMA DX WH	CUSTOMER FACING: TELLER AREA BANK LOBBY BANK LOBBY TELLER, SOFFIT LIGHT UPLIGHT BANK LOBBY TELLER, SOFFIT LIGHT DOWNLIGHT BANK LOBBY TELLER, DCN SURROUND GREEN LIGHT MEETING ROOM OR OFFICE, DOWNLIGHT ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
\$sos	OCCUPANCY SENSOR, WALL	SOS — NWSXA PDT LV WH	BACK OF HOUSE: RESTROOM CASH COUNTING ATM ROOM COMMAND ZONE, OVERHEAD AND UNDERCOUNTER ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
NL	NIGHT LIGHT CIRCUIT	SWITCH NOT REQUIRED	CUSTOMER FACING: ENTRY VESTIBULE, STRIP LIGHT WAITING ZONE, SEATING AREA PENDANT
PP	POWER/RELAY PACK ON/OFF EXTERNAL FAULT PROTECTION	NPP16 EFP	REFER TO A03.01 PLAN ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
DP1	POWER/RELAY PACK OCCUPANCY CONTROLLED DIMMING EXTERNAL FAULT PROTECTION	NPP16 D EFP	REFER A03.01 PLAN ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
DP2	POWER/RELAY PACK OCCUPANCY CONTROLLED DIMMING SET/LOCKED ON SITE EXTERNAL FAULT PROTECTION	NPP16 D EFP	REFER TO A03.01 PLAN USED AT TELLER SHROUD AND TELLER PORTAL UPLIGHT ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
SWITCH FACE PLATE	FACE PLATE SPECIFICATION FOR ALL SWITCHES	SERIES: WSXPODA COLOR: WHITE	ELECTRICIAN TO USE FOR ALL SWITCH FACE PLATES
NIO BT	BLUETOOTH LOW ENERGY COMMUNICATION MODULE	NLIGHT NIO BT	TO BE PLACED IN IT/SECURITY ROOM UPON COMPLET ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM

NOTE:

ALL EXTERIOR SIGNAGE TO BE CONTROLLED BY BMS

POWER/DATA LEGEND

WALL MOUNTED DUPLEX

WALL MOUNTED DUPLEX, ISOLATED GROUND

♠ WALL MOUNTED DUPLEX, GFI

WALL MOUNTED DUPLEX, DEDICATED

WALL MOUNTED DUPLEX, SEPARATE

★ WALL MOUNTED FOURPLEX WALL MOUNTED FOURPLEX, ISOLATED GROUND

* WALL MOUNTED FOURPLEX, DEDICATED

* WALL MOUNTED FOURPLEX, DEDICATED, HALF

WALL MOUNTED OUTLET, SPECIAL

▲ WALL MOUNTED TELE/DATA RECEPTACLE, SINGLE DROP ▲ WALL MOUNTED TELE/DATA RECEPTACLE, DUAL DROP

△ WALL MOUNTED PHONE RECEPTACLE

FLUSH FLOOR MOUNTED TELE/DATA, SINGLE DROP

FLUSH FLOOR MOUNTED TELE/DATA, DUAL DROP

 FLUSH FLOOR MOUNTED DUPLEX FLUSH FLOOR MOUNTED DUPLEX, DEDICATED

(J) FLUSH WALL MOUNTED POWER JUNCTION BOX WITH HARDWIRE CONNECTION HOMI RECEPTACLE WITH HARDWIRE CONNECTION TO SPECIFIED MONITOR

SECURITY COMPONENT CONNECTION POINT, REFER TO A03.03

머 DOORBELL CHIME

DOORBELL BUTTON

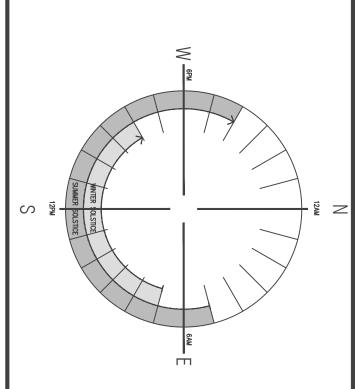
THIS PLAN IS FOR GENERAL REFERENCE ONLY & NOT MEANT FOR CONSTRUCTION PURPOSES. MEP ENGINEER TO PROVIDE LOCATIONS OF ALL ADDITIONAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CONVENIENCE OUTLETS & OTHER ESSENTIAL COMPONENTS. PLEASE REFER TO MEP DRAWINGS FOR CONSTRUCTION

ALL FIRE ALARM & LIFE SAFETY FIXTURES TO BE WHITE W/ RED LETTERS UNLESS LOCAL CODE DICTATES OTHERWISE. INFORM ARCHITECT OF SWITCH IF REQUIRED.

LABEL ALL OUTLETS WITH CIRCUIT NUMBERS.

GC TO COORDINATE WITH CITIZENS PROJECT MANAGER ON SCOPE OF WORK RELATIVE TO SECURITY WIRING/REQUIREMENTS.

CONTROLS FOR ALL EXTERIOR LIGHTING, SIGNAGE & AWNINGS TO BE CONNECTED TO CITIZENS' BUILDING MANAGEMENT SYSTEM (BMS).





SPACE PLANNING FACILITIES MANAGEMENT PROJECT MANAGEMENT EISBANO + ASSOCIATES, INC. RISING SUN MILLS | 188 VALLEY STREET | PROVIDENCE, RI | 02909 VOICE 401.404.8310 FAX 401.404.8311 WWW.BISBANO.COM

INTERIOR ARCHITECTURE

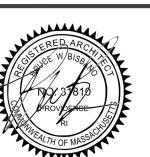
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KENDALL SQUARE 610 Main Street Cambridge, MA

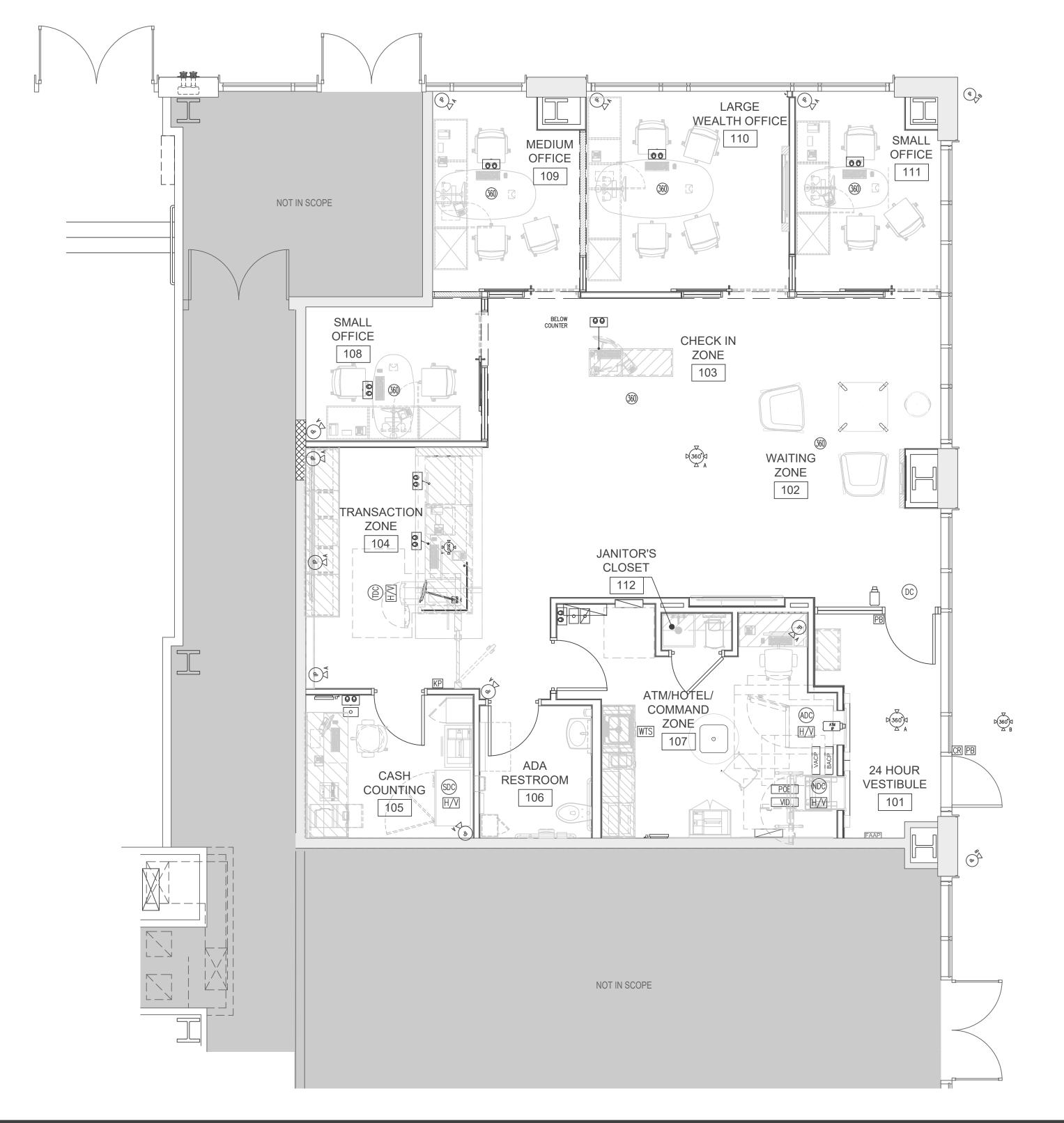
POWER & COMMUNICATIONS PLAN

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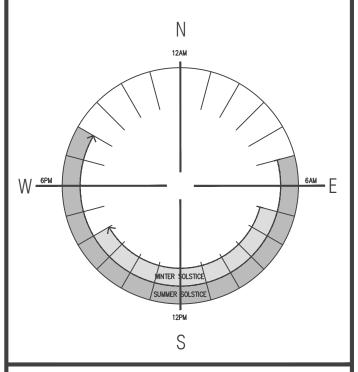
CONSTRUCTION DOCUMENTS SSUE DATE: DRAWN BY:







SYMBOL	DESCRIPTION	LOCATION	REMARKS
BACP	BURGLAR ALARM CONTROL PANEL	IT/ELECTRICAL	UNIT TO BE INSTALLED AS A STANDALONE PANEL.
VACP	VESTIBULE ACCESS CONTROL PANEL	IT/ELECTRICAL	UNIT TO BE INSTALLED AS A STANDALONE PANEL.
VID	NETWORK VIDEO RECORDER	IT/ELECTRICAL	UNIT TO BE INSTALLED WITHIN THE IT RACK.
POE	PORT NETWORK SWITCH	IT/ELECTRICAL	UNIT TO BE INSTALLED WITHIN THE IT RACK.
H/V	HEAT VIBRATION DEVICE	ATM ROOM, CASH/COUNTING, SAFE DEPOSIT VAULT, TRANSACTION ZONE	UNIT TO BE INSTALLED ON THE FOLLOWING DEVICES: ATM, SAFE, TCR, NIGHT DEPOSITORY, VAULT DOOR
(ADC)	ATM DOOR CONTACT	ATM ROOM, CASH/COUNTING	UNIT TO BE INSTALLED ON ALL ATMS.
(SDC)	SAFE DOOR CONTACT	CASH/COUNTING	UNIT TO BE INSTALLED ON REFRIGERATOR STYLE SAFE DOORS.
TDC	TCR DOOR CONTACT	TRANSACTION ZONE	UNIT TO BE INSTALLED ON TCR.
(NDC)	NIGHT DEPOSITORY DOOR CONTACT	ATM ROOM, CASH/COUNTING	UNIT TO BE INSTALLED ON NIGHT DEPOSITORIES
DC	DOOR CONTACT	EXTERIOR	UNIT TO BE INSTALLED ON EXTERIOR DOOR NOT CONNECTED TO A VESTIBULE ACCESS CARD READER.
KP	BACP KEYPAD	BANKING LOBBY	UNIT MUST BE INSTALLED PAST (2) POINT OF MOTION. REMOTE/FRONT LOAD ATM UNITS MUST OBTAIN AN ATTACHED KEYPAD.
00	HOLDUP BUTTON	ATM ROOM, CASH/COUNTING, CHECK-IN ZONE, COMMAND ZONE, MEETING ROOM, TRANSACTION ZONE	WRELESS UNIT TO BE INSTALLED IN INCONSPICUOUS AREA WHERE CUSTOMER FACING WITHIN REACH OF COLLEAGUE.
0	HOLDUP INDICATOR LIGHT	ATM ROOM, CASH/COUNTING, COMMAND ZONE	_
Ø	AMBUSH CANCEL BUTTON	COMMAND ZONE	_
360	CEILING-MOUNTED MOTION DETECTOR (360°)	BANKING LOBBY, CHECK-IN ZONE, MEETING ROOM, WAITING ZONE	_
WTS	WATERBUG/TEMPERATURE SENSOR	COMMAND ZONE	INSTALLED AT COMMAND ZONE SINK.
IP △A	DIRECTIONAL INTERIOR IP CAMERA	CASH/COUNTING, COMMAND ZONE, ENTRY VESTIBULE, MEETING ROOM, TRANSACTION ZONE, BOH CORRIDOR (SITE DEPENDENT)	INSTALLED AT WALL BEHIND COLLEAGUE FACING CUSTOMER CHAIRS.
0360 N	360° INTERIOR IP CAMERA	BANKING LOBBY, CHECK-IN ZONE, WAITING ZONE, TELLER PORTAL	NO MORE THAN (4) 360° CAMERAS TO BE INSTALLED IN A SITE, TOTAL TO INCLUDE BOTH INTERIOR AND EXTERIOR UNITS.
ATM IP	ATM IP CAMERA	ALL ATM UNITS	-
			INSTALL IN STOREFRONT FRAME FACING BANKIN LOBBY CLOSEST TO TRANSACTION ZONE. FINISH COLOR OF UNIT TO MATCH SPECIFIED FRAME.
	COVERT EXIT MULLION CAMERA	ENTRY VESTIBULE	WHEN AUTO SLIDER IS UTILIZED, INSTALL IN GW PARTITION ADJACENT TO SLIDER FACING BANKING LOBBY CLOSEST TO TRANSACTION ZONE. FINISH COLOR OF UNIT TO MATCH SPECIFIED PAINT COLOR.
(P) △B	DIRECTIONAL EXTERIOR IP CAMERA	EXTERIOR, LOCATIONS MAY VARY	-
1350 N ∆ B	360° EXTERIOR IP CAMERA	EXTERIOR, LOCATIONS MAY VARY	NO MORE THAN (4) 360° CAMERAS TO BE INSTALLED IN A SITE, TOTAL TO INCLUDE BOTH INTERIOR AND EXTERIOR UNITS.
<u>17"</u>	17" MONITOR W/ WALL MOUNT	CASH/COUNTING, COMMAND ZONE	_
CR	VESTIBULE ACCESS CARD READER	EXTERIOR, LOCATIONS MAY VARY	INSTALL ON EXTERIOR OF BRANCH FOR 24HR ACCESS INTO ENTRY VESTIBULE. NOTE TO SECURITY TEAM: INSTALLATION ON STOREFRONT MULLION WILL REQUIRE EXTRA





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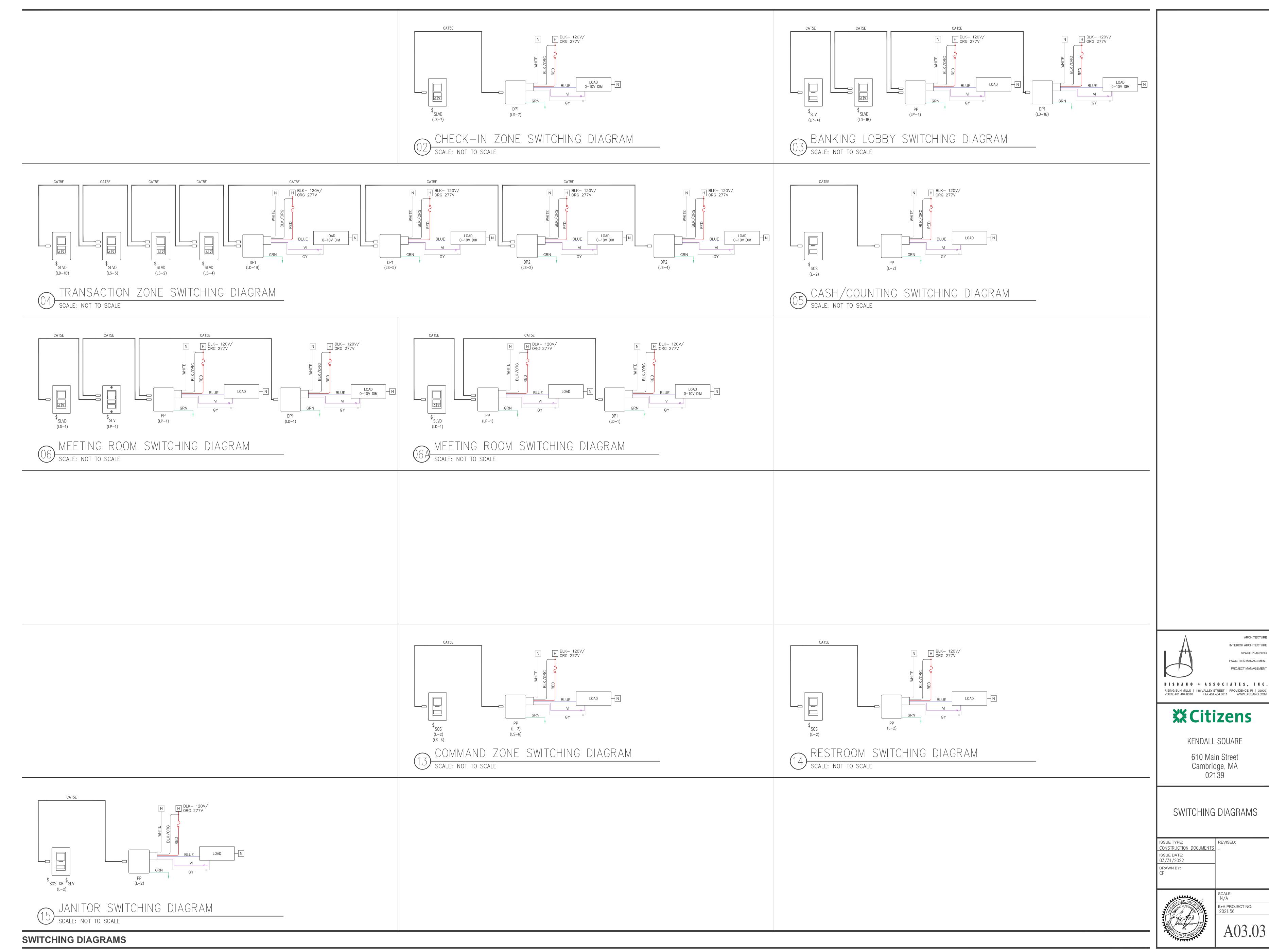
BRANCH SECURITY PLAN

ISSUE TYPE:
CONSTRUCTION DOCUMENTS

ISSUE DATE:
03/31/2022

DRAWN BY:





A03.03

KEYNOTES

24 HOUR

VESTIBULE

LARGE

MEDIUM SIM WEALTH
OFFICE

109

110

NOT IN SCOPE

NOT IN SCOPE

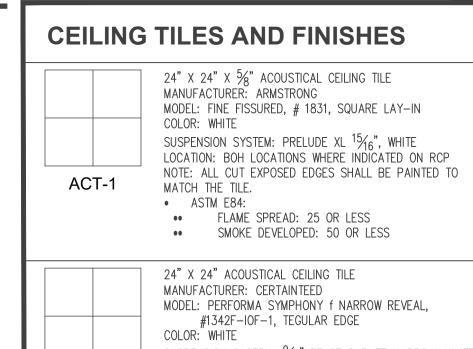
SMALL

TRANSACTION

ZONE 104

OFFICE 108

01 PROVIDE WHOLE ROW OF CEILING TILE CENTERED ON FULL HEIGHT GWB PORTION OF CHECK—IN WALL.



FINISH: BENJAMIN MOORE, CHANTILLY LACE, #OC-65, FLAT FINISH

GWB CEILING ON $2\frac{1}{2}$ " MTL STUD FRAMING @ 24" O.C.

NOTE: PREFERRED ACT FOR FOH. ALL CUT EXPOSED EDGES

SHALL BE PAINTED TO MATCH THE TILE.

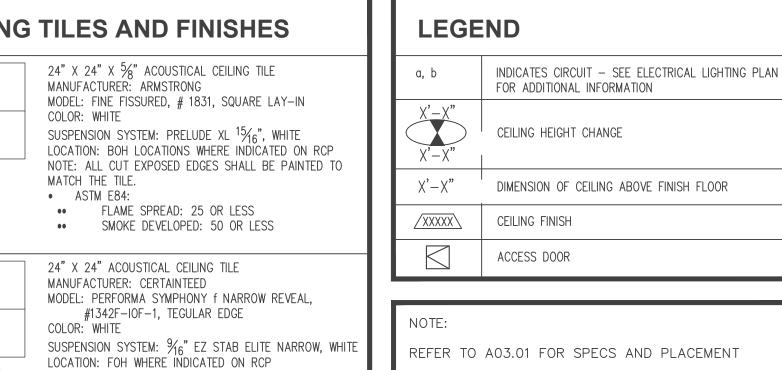
•• FLAME SPREAD: 25 OR LESS

ALL EXPOSED CUT EDGES OF ACOUSTICAL TILES SHALL BE

PAINTED TO MATCH TILE COLOR.

•• SMOKE DEVELOPED: 50 OR LESS

ASTM E84:



NOTE:

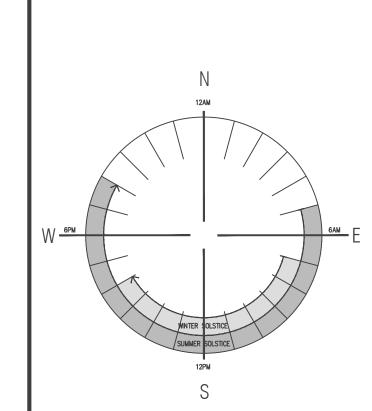
ALL EXTERIOR SIGNAGE TO BE CONTROLLED BY BMS

TOP VIEW PLAN

NOTE:

→ d m REFLECTED CEILING PLAN

ENLARGED PLANS AT TELLER PORTAL



INTERIOR ARCHITECTURE SPACE PLANNING FACILITIES MANAGEMENT PROJECT MANAGEMENT

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REFLECTED CEILING PLAN



	XTURE SCHEDULE	I	<u></u>			
SYMBOL OWNLIGHTS	DESCRIPTION	MANUFACTURER	MODEL NO.	LAMP	SWITCHES/DIMMERS	REMARKS
O LD-1	RECESSED LED ROUND DOWNLIGHT • WIDE FLOOD	SPECTRUM	MODEL: SR4MO XT13L DS101 H12 RDD4F 35K XW MW SO	3500K 1300 LUMENS	REFER TO A03.01 SWITCH SCHEDULE	LOCATION: MEETING ROOMS; AS INDICATED ON A04.00 SERIES DRAWINGS. ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM PLACEMENT: 4'-0" O.C.
O LD-1B	RECESSED LED ROUND DOWNLIGHT • WIDE FLOOD	SPECTRUM	MODEL: SR4MO XT20L DS101 H12 RDD4F 35K XW MW SO	3500K 2000 LUMENS	REFER TO A03.01 SWITCH SCHEDULE SOME FIXTURES TO BE LEFT ON THE NIGHT LIGHT CIRCUIT	LOCATION: BANK LOBBY; AS INDICATED ON A04.00 SERIES DRAWINGS. TELLER AREA WILL BE ON A SEPARATE CIRCUITAND SEPARATE DIMMER SWITCH ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM PLACEMENT: 6'-0" O.C.
O LD-2B	RECESSED LED ROUND DOWNLIGHT • NARROW FLOOD	SPECTRUM	MODEL: SR4MO XT20L DS101 H12 RDD4F 35K ND MW SO	3500K 2000 LUMENS	REFER TO A03.01 SWITCH SCHEDULE	 LOCATION: BANK LOBBY; END WALL CONDITION WHERE REQUIRED AND AS SHOWN ON A04.00 DRAWING SERIES ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM PLACEMENT: 6'-0" O.C.
LP-1	PENDANT	SHADES OF LIGHT	MODEL: YOUNG HOUSE LOVE EQUILATERAL PENDANT FINISH: BRONZE DIMENSIONS: 16"H X 14"W X 14"D	-K BULB: ECOSMART 40 WATT EQUIVALENT G25 DIMMABLE ENERGY STAR CLEAR GLASS FILAMENT VINTAGE EDISON LED LIGHT BULB BRIGHT WHITE	REFER TO A03.01 SWITCH SCHEDULE CFG TO CONFIRM ON A SITE BY SITE BASIS WHETHER OR NOT THE FIXTURE SHOULD BE LEFT ON A NIGHT LIGHT CIRCUIT	• LOCATION: MEETING ZONE, WEALTH OFFICE • NOTE: •• IN GENERAL: ••• SMALL MEETING ROOM: QTY. 1 ••• MEDIUM AND LARGE MEETING ROOM: ••• CEILINGS AT 10'-0", QTY. 2, PENDANTS TO BE INSTALLED USING (2) 12" RODE AT HIGHER PENDANT, U.N.O. ••• CEILINGS AT 9'-0", QTY. 2, PENDANTS TO BE INSTALLED USING (1) 12" RODE AT LOWER PENDANT AND (2) 12" RODE AT LOWER PENDANT AND (2) 12" RODE AT LOWER PENDANT AND (2) 12" RODE AT LOWER PENDANT, U.N.O. ••• CEILINGS FROM 8'-0" TO 8'-11", QTY. 1, WILL RECEIVE (1) PENDANT WITH (1) 12" RODE REGARDLESS OF MEETING ROOM SIZE. ••• CEILINGS BELOW 8'-0" WILL NOT RECEIVE ANY PENDANTS. •LOWEST HANGING PENDANT SHOULD BE FURTHEST AWAY FROM THE CREDENZA •INSTALLATION: FIRST VERTICAL ROD TO BE TIGHT TO FIXTURE CANOPY AT CEILING •INTERIOR ELEVATIONS WILL MANDATE PLACEMENT •ORDER CONTACT: STANDARD ELECTRIC •• MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
LP-2	PENDANT	SONNEMAN LIGHTING	MODEL: STIX LED PENDANT STYLE: 3 ARMS FINISH: SATIN BLACK DIMENSIONS: 40" DIA. MOUNTING HEIGHT: 90" A.F.F. TO BOTTOM OF FIXTURE WHEN FURNITURE IS BELOW.	3000K	SWITCH NOT REQUIRED LEAVE ON NIGHT LIGHT CIRCUIT	LOCATION: WAITING ZONE, SEATING AREA SPACING BETWEEN ARMS TO BE 2" NOTE: LARGE AND MEDIUM WAITING ZONE: QTY. 2 SMALL WAITING ZONE: QTY. 1 ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
X 2 L-2	RECESSED 2X2 LED FLAT PANEL	. ABL—LITHONIA LIGHTING		3500K LED	REFER TO A03.01 SWITCH SCHEDULE	LOCATION: BACK OF HOUSE LOCATIONS AS INDICATED ON A04.00 SERIES DRAWINGS. ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
IGHT STRIPS			MODEL FML OO C DIMON OAN OIL OLA O O			LOCATION TOD OF DODTAL DEFED TO
LS-2	TOP PORTAL LED LIGHT STRIP	KELVIX	MODEL: FML 2C 6 PH40K 24V CH 014 C 2 FR CP EC HOUSING: USE STANDARD FINISH	4000K	REFER TO A03.01 SWITCH SCHEDULE	LOCATION: TOP OF PORTAL. REFER TO MILLWORK DETAILS BY SPARKS ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
∟ LS−3	RECESSED LINEAR LIGHT STRIP	XAL INC.	MODEL: BASO1.5 RTR WH OP 35K C80 UNV 010V 0550LF ST 48IN	3500K 550 LUMENS/FT.	SWITCH NOT REQUIRED LEAVE ON NIGHT LIGHT	LOCATION: ENTRY VESTIBULE ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
LS-4	SHROUD LED LIGHT STRIP	KELVIX	MODEL NO.: PHGK-WR-24V CHANNEL MODEL NO.: CH-607 COLOR: GREEN LENS: FROSTED LENGTH: VARIES PER SITE CHANNEL: 45 DEGREE ANGLE	_	CIRCUIT REFER TO A03.01 SWITCH SCHEDULE CFG TO CONFIRM ON A SITE BY SITE BASIS WHETHER OR NOT THE FIXTURE SHOULD BE LEFT ON A NIGHT LIGHT CIRCUIT	INSTALLATION SETTING: THE LUMINOSITY SHOULD BE SET AT 2 CLICKS UP FROM THE LOWEST SETTING. ONCE SET TO THIS CRITERIA, THE SWITCH SHOULD BE LOCKED SO THAT IT CANNOT BE FURTHER ADJUSTED. LOCATION: UTILIZE AT SHROUD ABOVE REAR TELLER COUNTER; PREFERRED OPTION; REFER TO MILLWORK DETAILS BY SPARKS NOTE: TYP. 2 ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
LS-5	RECESSED LINEAR LIGHT STRIP	KELVIX	MODEL: FML 2C 6 PH40K 24V CH211 2 WHS CP EC FMC 2C HOUSING: USE STANDARD FINISH	4000K	REFER TO A03.01 SWITCH SCHEDULE	LOCATION: TELLER PORTAL ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
LS-6	MILLWORK LED LIGHT STRIP	KELVIX	MODEL: FML 2C 6 PH40K 24V CH 014 C 2 WH CP EC CH CC 2M HOUSING: USE STANDARD FINISH	4000K	REFER TO A03.01 SWITCH SCHEDULE	LOCATION: COMMAND ZONE, UNDER COUNTER LIGHTING. REFER TO MILLWORK DETAILS BY SPARKS ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS
LS-D	LIGHT STRIP DRIVERS	KELVIX	MODEL: ULV96 24V NOTE: USE AS REQUIRED PER DRAWINGS	_	_	MKARASS@STANDARDELECTRIC.COM USE AS REQUIRED FOR DRAWINGS ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS
LS	ADDITIONAL LIGHT STRIP CHANNEL	KELVIX	MODEL: FMC 2C NOTE: USE AS REQUIRED PER DRAWINGS	_	_	MKARASS@STANDARDELECTRIC.COM • USE AS REQUIRED FOR DRAWINGS • ORDER CONTACT: STANDARD ELECTRIC •• MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
———	RECESSED WALL WASH LINEAR LIGHT STRIP	XAL INC.	MODEL: BASO1.5 9GR WH WW 35K C80 UNV 010V 0600LF ST 24IN HOUSING: USE STANDARD FINISH NOTE: STANDARD SPEC IS FOR %16" GRID; IF OTHER GRID IS BEING USED, THE SPEC	3500K	REFER TO A03.01 SWITCH SCHEDULE	MKARASS⊚STANDARDELECTRIC.COM • LOCATION: RECESSED WALL WASH LINEAR LIGHTS BEHIND CHECK—IN DESK FOR BRANDING WALL; REFER TO A04.01 FOR EXACT LOCATION • ORDER CONTACT: STANDARD ELECTRIC •• MICHAEL KARASS MKARASS⊚STANDARDELECTRIC.COM
LS-7			NUMBER WILL NEED TO BE ADJUSTED TO REFLECT WHAT IS NEEDED			
EMERGENCY EM-1	COMPACT DUAL HEAD LED EMERGENCY LIGHT	ABL-LITHONIA LIGHTING		_	_	LOCATION: INTERIOR, REFER TO ARCHITECTURA PLANS ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM

ALL EXTERIOR SIGNAGE TO BE CONTROLLED BY BMS



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LIGHTING SCHEDULE

ISSUE TYPE:
CONSTRUCTION DOCUMENTS

ISSUE DATE:
03/31/2022

DRAWN BY:
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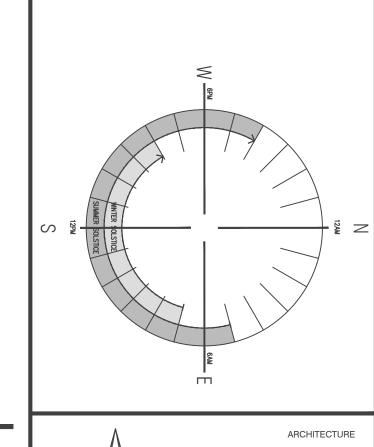


1/4" = 1'-0"

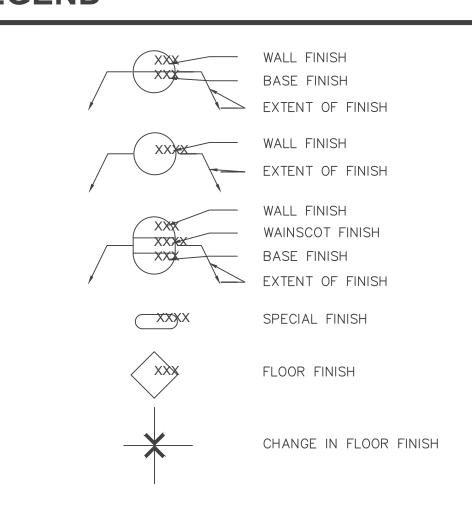
B+A PROJECT NO: 2021.56

KEYNOTES

- D1 PROVIDE LEVEL 5 FINISH ON NEW GWB WALL.
- 02 PROVIDE LEVEL 4 FINISH ON NEW GWB WALL.



LEGEND





INTERIOR ARCHITECTURE SPACE PLANNING FACILITIES MANAGEMENT PROJECT MANAGEMENT

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FINISH PLAN



LARGE WEALTH OFFICE

110

RECESSED POCKET

ATM/HOTEL/ COMMAND ZONE 107

JANITOR'S CLOSET

NOT IN SCOPE

P-6 CPT-7 OFFICE

WB-6 CPT-7 OFFICE

CARPET

GRAIN

FINISHES AT DIRTT WALLS

TO BE PROVIDED ON
SHOP DRAWINGS BY COP

(WF-13)

ADA RESTROOM /

NOT IN SCOPE

TRANSACTION | ZONE | 104

CASH

COUNTING 105

SMALL

OFFICE P-16 WB-6

ZONE 102

24 HOUR VESTIBULE

101

NUMBER		MANUFACTURER	MODEL NO./COLOR/FINISH	REMARKS
				INDIVINIO
	CARPET	MILLIKEN	COLLECTION: LIVE CIRCUIT DESIGN: CURRENT DR NUMBER: 01119074_P25 SIZE: 25 CM X 1 M (9.85" X 39.4") COLOR: CUSTOM GRAY AND GREEN	•INSTALL: ½ STAGGERED; REFER TO LAYOUT •LOCATION: FOH AND BOH •CUT PLANKS REQUIRE EDGE SEALANT, MILLIKEN BARRIER BOND, PRIOR TO INSTALLATION •GC TO PLACE ORDER FOR MATERIAL THROUGH PAVILION FLOORS •FLAME SPREAD: ASTM-E-648 ≥0.45 CLASS 1 •SMOKE DENSITY: ASTM-E-662 ≤450
VT-2	LUXURY VINYL TILE	ARMSTRONG	ITEM NUMBER: F0011 COLLECTION: UNLEASHED LVT DESIGN: NEW LONDON OAK COLOR: CHAMPAGNE DIMENSIONS: 5MM THICK; 9.25"W X 59.25"L	• INSTALL: 1/2 STAGGERED • LOCATION: REFER TO A05.01 • FLAMMABILITY/SMOKE EMISSIONS: •• ASTM E 648 — CLASS 1
_VT-3	LUXURY VINYL TILE	ARMSTRONG	ITEM NUMBER: F0012 COLLECTION: UNLEASHED LVT DESIGN: NEW LONDON OAK COLOR: DARK SHADOW DIMENSIONS: 5MM THICK; 9.25"W X TBD"L	 INSTALL: FULL PLANK OR HALF PLANK, CFG TO ADVISE ON A SITE BY SITE BASIS. LOCATION: QUEUE, BANKING LOBBY FLAMMABILITY/SMOKE EMISSIONS: ASTM E 648 — CLASS 1
WM-3	WALK-OFF MAT	MILLIKEN	OBEX TILE CUT FIZZ COLOR: DARK GREY SIZE: 50CM x 50CM TILE "WELCOME" TILES: MODEL: # 00870510-001 MODEL: # 00870510-002	• LOCATION: ENTRY •• INCLUDE MILLIKEN CUSTOM "WELCOME" TILES IN SAME MODEL AND COLOR •• INSTALLATION OF "WELCOME" TILES: ••• CENTERED ON INTERIOR DOOR OPENING, PLACED 12" IN FROM THRESHOLD TO START OF TILE ••• DO NOT INSTALL FIELD TILE UNTIL WELCOME TILES ARE ON SITE • FLAMMABILITY (RADIANT PANEL ASTM—E—648) ≥0.45 (CLASS I) • SMOKE DENSITY (NFPA—258—T OR ASTM—E—662) ≤450
-LOO S-9	RING TRANSITION STRIF	SCHLUTER	SCHIENE	•LOCATION: LVT TO CARPET, WALK OFF MAT TO
			MODEL: E 60 EB FINISH: BRUSHED STAINLESS STEEL SIZE: 1/4" H	CARPET, WALK OFF MAT TO LVT
	T / WALLCOVERING	I SC — SEMI_CLOSS CL	- CLOSS IA - LACOUER ST - WOLF CO	DRDON SCRUBTOLICH
PAIN I P-6	PAINT	BENJAMIN MOORE	= GLOSS, LA = LACQUER, ST = WOLF GO COLOR: CHANTILLY LACE # OC-65	• LOCATION: GENERAL, AS INDICATED ON FINISH PLAN
			FINISH: SATIN (526) PRODUCT TYPE: BENJAMIN MOORE AURA INTERIOR PAINT	NOTE: PAINT FINISH TO BE SATIN UNLESS OTHERWISE NOTED ON FINISH PLAN WITH SUFFIX, REFER TO PAINT SUFFIX LEGEND ABOVE FOR FINISH DIRECTION
P-16	PAINT	SHERWIN WILLIAMS	COLOR: MINDFUL GRAY # SW 7016 FINISH: SATIN (526) PRODUCT TYPE: BENJAMIN MOORE AURA INTERIOR PAINT	• LOCATION: GENERAL PAINT COLOR, REFER TO FINISH PLAN A05.01
P-17	PAINT	SHERWIN WILLIAMS	COLOR: ARGYLE # SW 6747 FINISH: SATIN (526) PRODUCT TYPE: BENJAMIN MOORE AURA INTERIOR PAINT	• LOCATION: ACCENT PAINT COLOR, REFER TO FINISH PLAN A05.01
WC-2	WALLCOVERING	WOLF GORDON	MODEL: RAINY, #WG11695137 COLOR: CUSTOM SOLID FILM SW6927 GOH 11795943, CITIZENS GREEN	LOCATION: ENTRY WALL WITH ATM & ND ORDER CONTACT: CINDY CEDRONE, 781-320-2972
WC-4	FRP		4' X 8' WHITE FRP WALLBOARD .090	INSTALLED TO 48" AFF. GENERAL NOTE: TO BE INSTALLED ON RETURN WALLS WITHIN RECESSES WHEN APPLICABLE
WC-8	WALLCOVERING	KOROSEAL	MODEL: SPIRE COLOR: WHITE HOUSE ITEM NO.: SPR1-03	• LOCATION: REAR TELLER WALL, REFER TO ELEVATIONS • INSTALLATION DIRECTION: PATTERN TO BE HORIZONTAL • FLAME SPREAD: ASTM E-84 CLASS A • SMOKE DEVELOPED: - • GENERAL NOTE: TO BE INSTALLED ON RETURN WALLS WITHIN RECESSES WHEN APPLICABLE
WC-9	WALLCOVERING	KNOLL TEXTILES	MODEL: STENCIL COLOR: SWAN NO.: WC2137/1	LOCATION: WET WALLS IN RESTROOMS NOTE: INSTALL AS DIRECTED ASTM E84: FLAME SPREAD: 20 SMOKE DEVELOPED: 45 GENERAL NOTE: TO BE INSTALLED ON RETURN WALLS WITHIN RECESSES WHEN APPLICABLE
WC-12	WALLCOVERING	MILLER ZELL	STYLE: DAISY WALLCOVERING COLOR: CHANTILLY DAISY MOTIF	LOCATION: ENTRY VESTIBULE NOTE: USE WHEN ACCENT GYP WALL IS IN PLACE WALL PREP: LEVEL 4 FINISH REQUIRED COORDINATE WITH CFG DESIGN TEAM AND MILLER ZELL
WC-14	WALLCOVERING	MILLER ZELL	STYLE: DAISY MOSAIC WALLCOVERING COLOR: GREEN NOTE: CONTINUED GRAPHIC ONTO SIDELITE GLASS WITH FILM WHEN NEEDED (WF-12)	LOCATION: CHECK IN ZONE WALL PREP: LEVEL 5 FINISH REQUIRED COORDINATE WITH CFG DESIGN TEAM AND MILLER ZELL
ΓL-4	TILE BACKSPLASH	ARTISTIC TILE	COLLECTION: JAZZ GLASS—TAMBOURINE TRAPS COLOR: GILLESPIE GREEN (MIXED FINISH GLASS MOSAIC) ITEM NO.: GJGTAMGG	LOCATION: COMMAND ZONE INSTALLATION: VERTICAL NOTE: SEE A11.00 SERIES FOR TILE DIRECTION
			NOTE: USE BACKSPLASH TERMINATION TILE FOR EXPOSED CONDITIONS BATON PAVAROTTI PEARL MOLDING/GLOSS GLASS LINER ITEM COLOR: GLOPPAGLBAT	
GT-4	GROUT FOR TILE BACKSPLASH, TL-4	LATICRETE	PERMACOLOR; NON-SANDED COLOR: #45 RAVEN	LOCATION: COMMAND ZONE
	L BASE			
VB-5C	WALL BASE	TARKETT	STYLE: JOHNSONITE 4" HIGH STANDARD RUBBER BASE COLOR: 32 PEBBLE COVE BASE AT HARD FLOORING	LOCATION: BACK OF HOUSE & WHERE INDICATED ON FINISH PLAN
WB-6	WALL BASE	TARKETT	STYLE: JOHNSONITE MANDALAY SERIES, 4.5" COLOR: 32 PEBBLE MODEL: # MW-32-H	• LOCATION: FRONT OF HOUSE & WHERE INDICATED ON FINISH PLAN • FLAMMABILITY: CLASS 1 (≥0.45 W/CM2)
			MODEL. # MW-32-11	• SMOKE DENSITY: < 450

NUMBER	DESCRIPTION	MANUFACTURER	MODEL NO./COLOR/FINISH	REMARKS
CEILIN	NGS			,
SEE RE	FLECTED CEILING PLAN AO	4.01		
GLAZI	ING SYSTEM & PRIVAC	Y FILM		
MTL-2	DIRTT WALL SERIES: STANDARD	DIRTT	FINISH: CLEAR ANODIZED ALUMINUM NOTE: STANDARD	LOCATION: OFFICE FRONTS ALL OTHER DIRTT FINISHES SHALL BE DOCUMENTED IN SHOP DRAWINGS FROM DIRTT/COP
WF-8	PRIVACY FILM	3M	STYLE: DISTRACTION MARKS FINISH: DUSTED CRYSTAL	LOCATION: ENTRY VESTIBULE COORDINATE WITH SIGNAGE VENDOR, CFG TO PROVIDE SIGNAGE PACKAGE
WF-12	PRIVACY FILM	3M	STYLE: DAISY MOSAIC GRAPHIC COLOR: OPTICALLY CLEAR FILM; PRINTED WHITE OR DUSTED CRYSTAL NOTE: THIS WILL BE A CONTINUED GRAPHIC FROM WC-14 WHEN INDICATED BY CFG	LOCATION: CHECK IN ZONE COORDINATE WITH CFG DESIGN TEAM AND MILLER ZELL
WF-13	PRIVACY FILM	-	STYLE: GREEN VERTICAL STRIPE VINYL	LOCATION: ALTERNATE OPTION FOR MEETING ROOMS COORDINATE WITH SIGNAGE VENDOR, CFG TO PROVIDE SIGNAGE PACKAGE
UPHO	OLSTERY			
UP-7	UPHOLSTERED WALL PANEL	MAHARAM	MODEL: MODE COLOR: CELTIC NO.: 466337-038	LOCATION: MEETING ZONE WALL PANELS ASTM E84: UNADHERED FLAME: 5 SMOKE DEVELOPED: 60
MILL	WORK/PLASTIC LAMINA	ATE		
MT-33	WALLCOVERING TRIM	FRY REGLET	MODEL: WALLCOVERING TERMINATION MODEL NO.: WCTBT-125-217 FINISH: GLOBAL WHITE	LOCATION: REFER TO MILLWORK DETAILS

NOTE:
ALL RECEPTACLES & FACEPLATES TO BE WHITE.

WHERE

WHERE SPECIALTY GRAPHICS ARE IDENTIFIED BY CITIZENS BANK, PROVIDE A LEVEL 5 WALL FINISH. ENSURE BRANDING WALL IS CLEAR OF ALL PERIPHERALS INCLUDING BUT NOT LIMITED TO SWITCHES, STROBES AND OUTLETS.

NOTE:

ALL INTERIOR DOOR & FRAME PAINT FINISH SHALL BE P-6SG
UNLESS OTHERWISE NOTED. CERTAIN SITE CONDITIONS MAY REQUIRE
DOORS/FRAMES TO BE PAINTED AN ALTERNATE COLOR; REFER TO
FINISH PLAN FOR FINAL DIRECTION.

NOTE:

EXTERIOR DOOR & FRAME PAINT FINISH SHALL BE P-_SG. REFER TO FINISH PLAN FOR ADJACENT WALL COLOR.

NOTE:

ALL EXISTING TO REMAIN PAINT FINISHES TO BE PAINTED WITH A NEW COAT OF PAINT. VERIFY FINISH SPECIFICATION WITH ARCHITECT. CONTRACTOR TO SUPPLY SAMPLE FOR APPROVAL.



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INTERIOR ARCHITECTURE
SPACE PLANNING
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FINISH SCHEDULE

ISSUE TYPE:

CONSTRUCTION DOCUMENTS

ISSUE DATE:

03/31/2022

DRAWN BY:

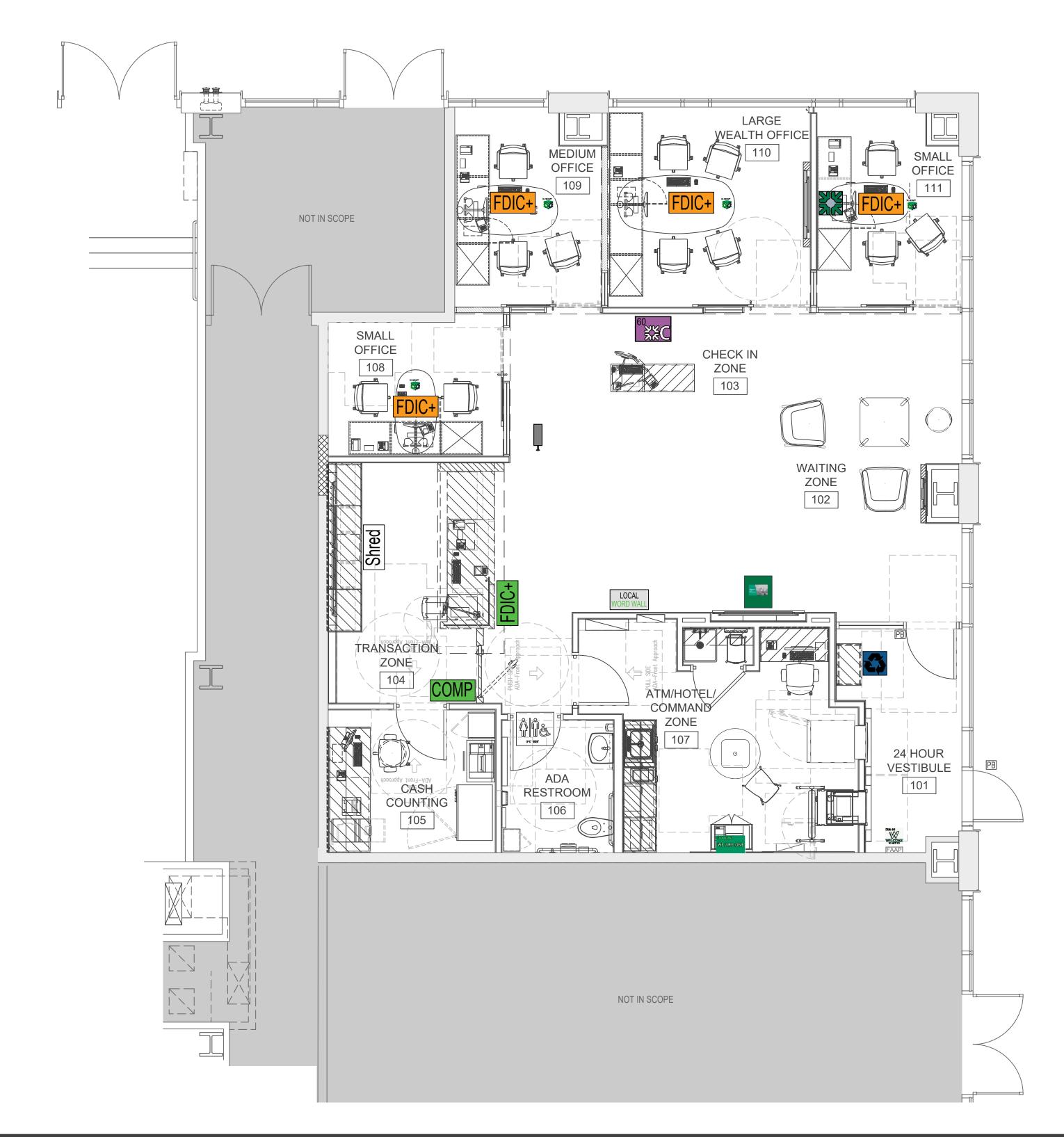


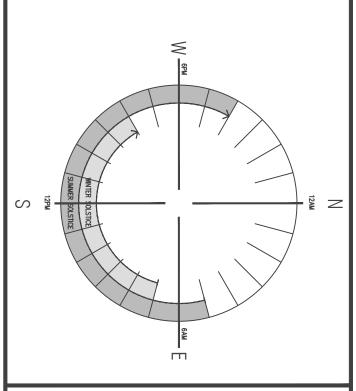
1/4" = 1'-0"

B+A PROJECT NO: 2021.56

SYMBOL	DESCRIPTION	MANUF/ MODEL NO./COLOR	DIMENSION	PROVIDED BY	REMARKS
ISYWHEELS					<u>'</u>
	ACRYLIC DAISYWHEEL	PREFERRED - 55" DUAL SCREENS WHITE GLOSS WITH GREEN RETURNS PMS MATCH TO MINDFUL GREY	28"H X 28"W	PROVIDED BY CFG SPECIFIED BRANDING VENDOR	LOCATION: TRANSACTION ZONE REAR TELLER WALL
	ILLUMINATED DAISYWHEEL	_	42"H X 42"W	PROVIDED BY CFG SPECIFIED BRANDING VENDOR	LOCATION: EXTERIOR FACING
TTERSETS					<u>'</u>
60 XXC	ILLUMINATION WITH LOGO	CHANTILLY LACE	60"W	PROVIDED BY CFG SPECIFIED BRANDING VENDOR	LOCATION: CHECK-IN ZONE FULL GWB APPLICATION - USE ON WALLS 3'-6"-6'-0" WIDTHS.
WE ARE ONE	BIL COMMAND ZONE/PANTRY DIMENSIONAL LETTERS	WHITE	_	PROVIDED BY CFG SPECIFIED BRANDING VENDOR	LOCATION: COMMAND ZONE/PANTRY NOTE: INSTALL ON P17 WALL OVER CORKBOARD. CAN ALSO BE PLACED ON WALL OVER TABLE. CFG TO DIRECT
DUM GO VOTE CONCE	WELCOME WITH MOTTO LETTERS DIMENSIONAL	WHITE WITH GREENBELT RETURNS	60"H	PROVIDED BY CFG SPECIFIED BRANDING VENDOR	LOCATION:
LRG FORMAT CITY/STATE	VINYL CITY/STATE	VINYL	DETERMINED BY SITE	PROVIDED BY CFG SPECIFIED BRANDING VENDOR	LOCATION: LOBBY
LOCAL WORD WALL	LOCALIZED WORDS	_	_	PROVIDED BY CFG SPECIFIED BRANDING VENDOR	LOCATION: WAITING ZONE - COMMUNITY WALL
SITAL SCREEN SHR	COUDS				
	VERTICAL ACRYLIC SHROUD	_	VARIES BY SITE	PROVIDED BY CFG SPECIFIED BRANDING VENDOR	LOCATION: WAITING ZONE — COMMUNITY WALL
SCELLANEOUS					I
N. 50007	DESK SCULTURE - GREEN		_	PROVIDED BY CFG SPECIFIED	LOCATION: OFFICE

BRANDIN	G ELEMENTS (CONTINU	IED)			
SYMBOL	DESCRIPTION	MANUF/ MODEL NO./COLOR	DIMENSION	PROVIDED BY	REMARKS
SIGNAGE					
	ADA RESTROOM UNISEX PLAQUE WITH BRAILLE	ITEM #037363C (UNISEX) ¼" ACRYLIC PRINTED COLOR: 2ND TO MATCH PMS COOL GREY 11 TACTILE WHITE FOR SYMBOLS & BRAILLE	9"H X 8"W	PROVIDED BY CFG SPECIFIED VENDOR	LOCATION: RESTROOMS NOTE: OPT. 1-PLACE 3" FROM DOOR ON HANDLE SIDE & MOUNT 54" AFF. OPT. 2-IF OFF DOOR IS NOT FEASIBLE, PLACE DIRECTLY ON DOOR CENTERED HORIZONTALLY 54"AI
COMP	COMPLIANCE, EQUAL LENDER PLAQUE	FRAME & INSERTS (2) EACH INSERT PAGE IS 17"H X 11"W	2 PLAQUE SET: APPROX. 22.5"H X 11"W	PROVIDED BY CFG SPECIFIED VENDOR	LOCATION: CENTER OF LOBBY NOTE: MOUNT VERTICALLY UNLESS SPACE DICTATES OTHERWISE, 57" AFF ON WALL NEAR TELLER LINE. KEEP 6" CLEAR AROUND GRAPHIC; AVOID GREEN WALLS.
	RECYCLE PLAQUE	1/8" ACRYLIC PRINTED COLOR: 2ND TO MATCH PMS 340	2"H X 6"W	PROVIDED BY CFG SPECIFIED VENDOR	LOCATION: ENTRY VESTIBULE NOTE: MOUNT ON STANDARD TRASH UNIT MILLWORK ABOV SLOT MOUNT WITH DOUBLE—SIDED TAPE. MINI TRASH WILL NOT RECEIVE A PLAQUE.
Shred	SHRED PLAQUE	1/8" ACRYLIC PRINTED COLOR: 2ND TO MATCH FELTED WOOL	2"H X 6"W	PROVIDED BY CFG SPECIFIED VENDOR	LOCATION: TRANSACTION ZONE NOTE: INSTALL ON REAR TELLER COUNTER MILLWORK BELOW IRON MOUNTAIN BIN SLOT. REFER TO MILLWORK DETAILS FOR PLACEMENT. MOUNT WITH DOUBLE SIDED TAF
FDIC+	FDIC SIGNAGE — TELLER INSTALLATION	ITEM #021478 (MILLWORK)	3"H X 12"W X .118"D	PROVIDED BY CFG SPECIFIED VENDOR	LOCATION: TRANSACTION ZONE NOTE: INSTALL ON FRONT TELLER BAR. PLACE ON WALNU' STANDING SECTION FOR EACH STATION.
Ţ	KIOSK	CTZ WELCOME KIOSK KIT POST AND BASE (GRAPHICS NOT INCLUDED)	_	PROVIDED BY CFG SPECIFIED VENDOR	LOCATION: LOBBY LOCATION TO BE DETERMINED BY CFG
FDIC+	FDIC SIGNAGE — MAGNETIC INSTALLATION	ITEM #021465-R (DESK VERSION) MAGNETIC APPLICATION	_	PROVIDED BY CFG SPECIFIED VENDOR	LOCATION: MEETING ROOMS — DESK LOCATION: ADVISORY BOOTH — TABLE NOTE: MAGNETIC PLAQUE





RISING SUN MILLS | 188 VALLEY STREET | PROVIDENCE, RI | 02909 VOICE 401.404.8310 FAX 401.404.8311 WWW.BISBANO.COM

XX Citizens

KENDALL SQUARE
610 Main Street
Cambridge, MA
02139

BRANDING PLAN

ISSUE TYPE: REVISED
CONSTRUCTION DOCUMENTS ISSUE DATE:
03/31/2022
DRAWN BY:

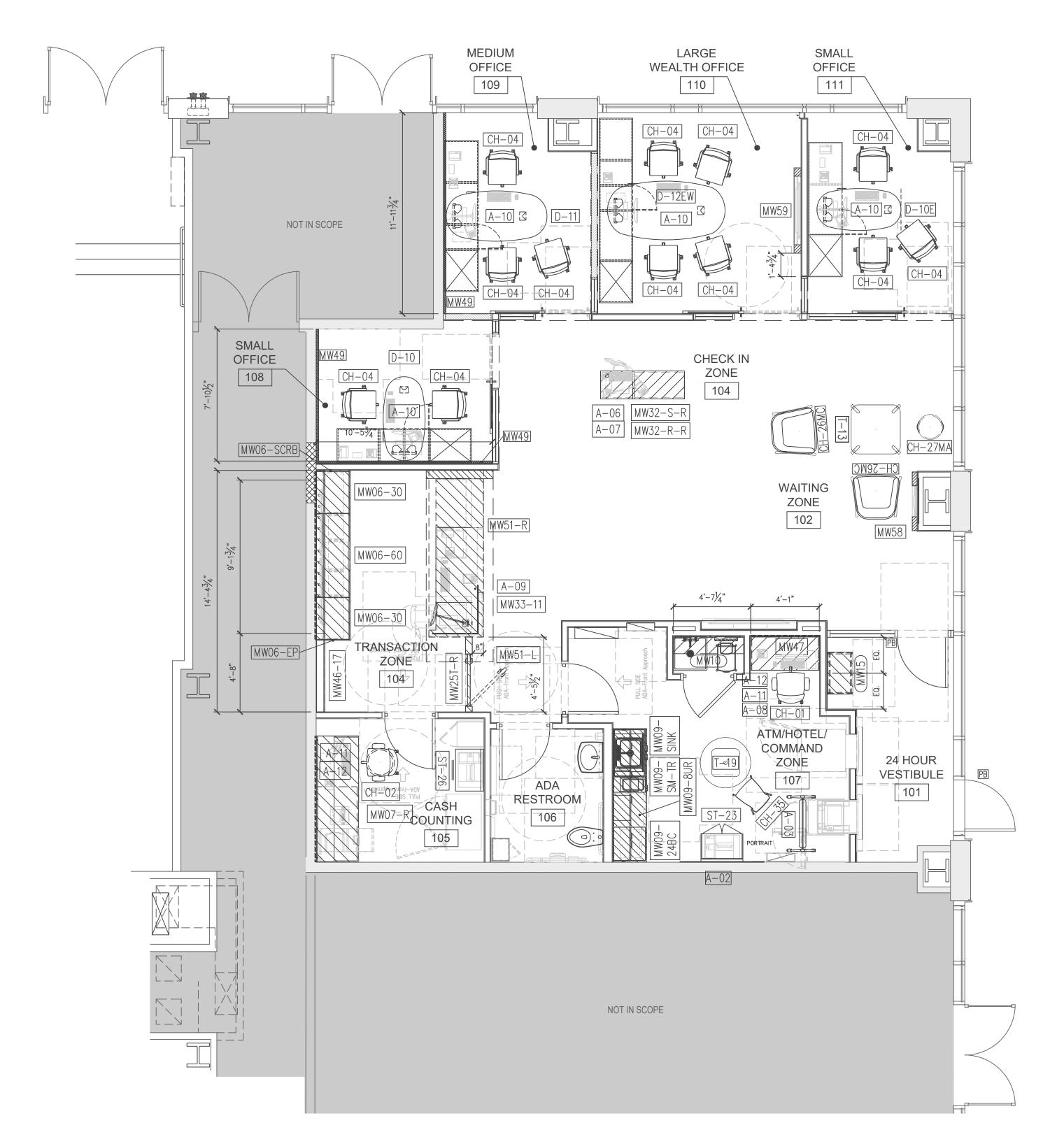


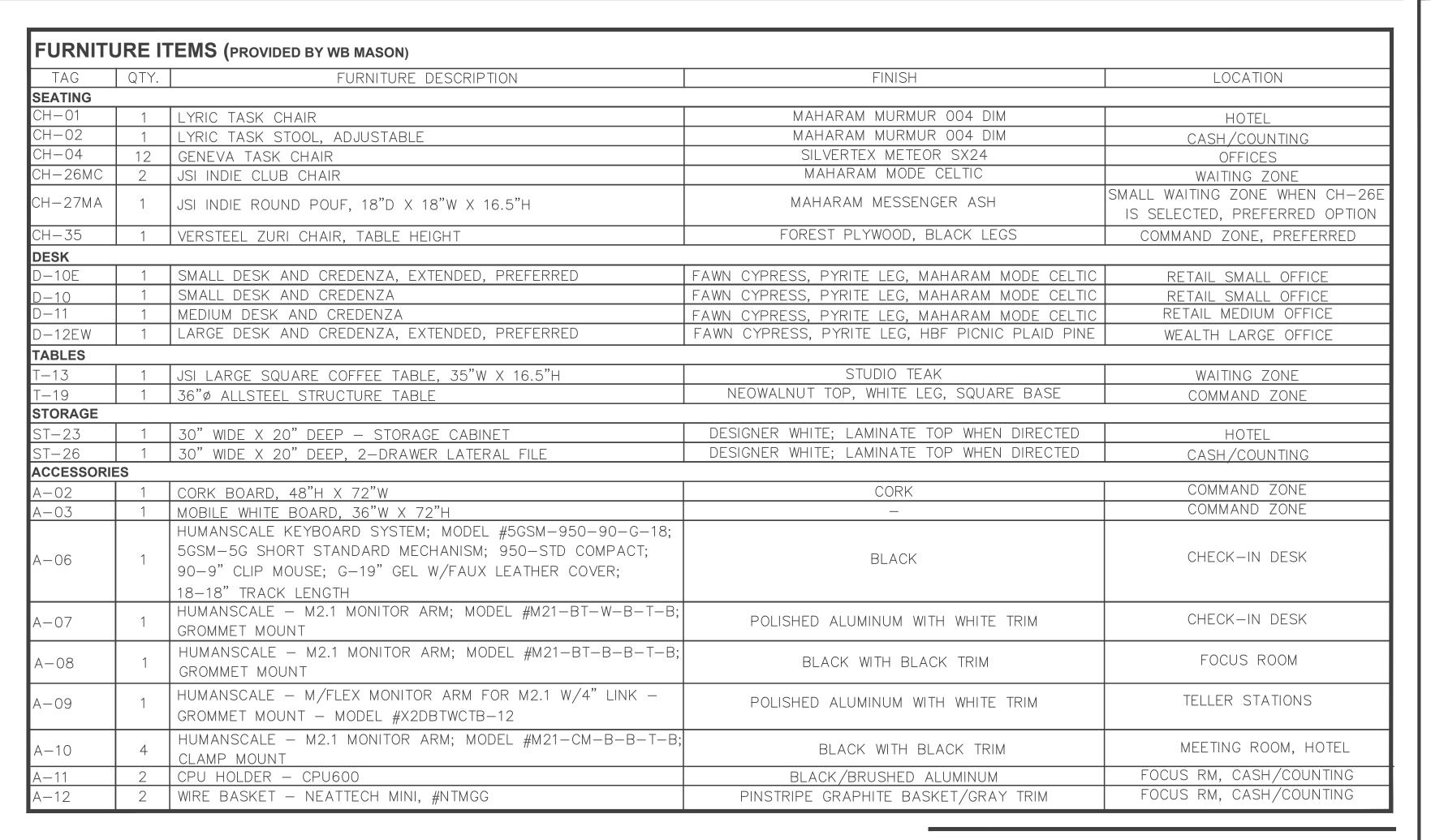
B+A PROJEC 2021.56

TAG	QTY.	MILLWORK DESCRIPTION	COORDINATION DETAILS
RASH UNIT	1 411.	I MILLWOIM BESOM HOW	OCCINENT DE IMES
1W15	1 1	TRASH UNIT, 30" STANDARD	_
HECK-IN DESKS	 S	TIVION CIVIT, CC STANDAND	
1W32-R-R	1 1	CHECK-IN DESK - ROLLING CABINET - RIGHT (PAIRED WITH MW32-S-R)	_
1W32-S-R	1	CHECK-IN DESK - STATIONARY - RIGHT (PAIRED WITH MW32-R-R)	_
ELLERS			
1W51-R	1	1 STAND WITH ADA DROP — RIGHT	_
EAR TELLER C	OUNTER		<u> </u>
1W06-30	2	30" CAB — DOUBLE SWING DOOR	2/A12.03
1W06-60	1	60" PRIMARY UNIT	1/A12.03
1W06-EP	1	END PANEL	_
1W06-SCRB	1	SCRIBE PANEL	_
EAR TELLER SI	HROUD		
1W46-17	1	17' REAR DCN SHROUD — 55" SCREEN	1,2,3/A12.03
ELLER PORTAL	S		•
1W33-11	1	11' TELLER PORTAL	1,1A/A12.06
ELLER GATES			•
1W25T-R	1	TELLER GATE (TALL) — 50" HIGH — RH	_
ASH/COUNTING			
IW07-R	1	7'-6" CASH COUNTING COUNTER	1,2/A12.04
OMMAND ZONE	<u> </u>		
IW09-8UR	1	COMMAND ZONE — 8' WITH REFRIGERATOR	5/A12.04
UPPLEMENTAL	COMPONE	NTS	
1W1O	1	ADJUSTABLE SHELF SYSTEM	6,7/A12.04
1W47	1	FOCUS ROOM COUNTER	2/A12.05
IW58	1	43" FA MONITOR SCREEN SHROUD	
IW59	1	55" WEALTH SCREEN SHROUD	_
IILLWORK	ITEMS	(BY G.C.)	
TAG	QTY.	MILLWORK DESCRIPTION	DETAIL
	<u> </u>		<u> </u>
1W49	3	UPHOLSTERED WALL-MOUNTED PANELS	A12.02

GENERAL NOTES

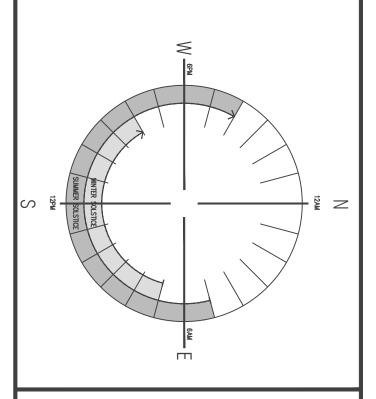
- 1. MILLWORK ITEMS SHALL BE PROVIDED BY SPARKS AND/OR G.C.
- 2. MILLWORKER TO SUBMIT SHOP DRAWINGS FOR ALL MILLWORK PIECES FOR ARCHITECT'S APPROVAL.
- 3. COORDINATE AND VERIFY ALL MILLWORK ITEMS WITH CFG AND CFG SPECIFIED VENDOR.





GENERAL NOTES

- 1. FURNITURE ITEMS TO BE PROVIDED BY OTHERS.
- 2. FURNITURE ITEMS LISTED FOR REFERENCE ONLY. COORDINATE W/ FURNITURE VENDOR FOR EXACT SPECIFICATIONS.
- 3. COORDINATE AND VERIFY ALL FURNITURE ITEMS WITH CFG AND CFG SPECIFIED VENDOR.





INTERIOR ARCHITECTURE SPACE PLANNING FACILITIES MANAGEMENT PROJECT MANAGEMENT

BISBANO + ASSOCIATES, INC

XX Citizens

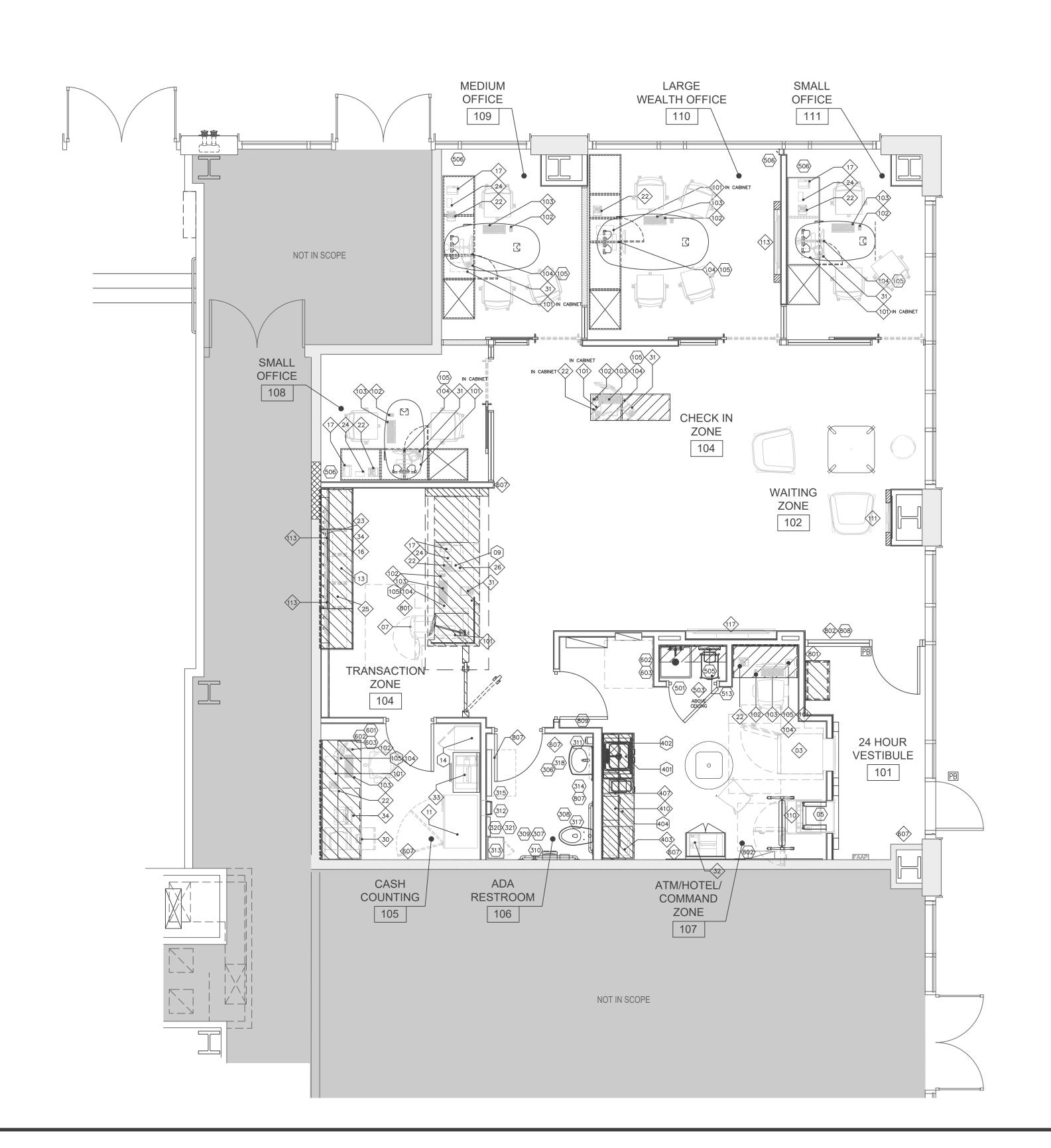
KENDALL SQUARE

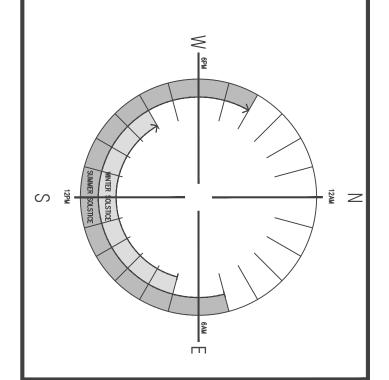
610 Main Street Cambridge, MA 02139

FURNITURE PLAN & SCHEDULE



FURNITURE PLAN & SCHEDULE





FACILITIES MANAGEMENT PROJECT MANAGEMENT RISING SUN MILLS | 188 VALLEY STREET | PROVIDENCE, RI | 02909 VOICE 401.404.8310 FAX 401.404.8311 WWW.BISBANO.COM

ARCHITECTURE

SPACE PLANNING

INTERIOR ARCHITECTURE

XX Citizens

KENDALL SQUARE

610 Main Street Cambridge, MA 02139

EQUIPMENT PLAN

ISSUE TYPE:
CONSTRUCTION DOCUMENTS

ISSUE DATE:
03/31/2022

DRAWN BY:
CP



MBER		LE			
\Diamond	DESCRIPTION	MANUF/ MODEL NO./COLOR	DIMENSION	PROVIDED BY	REMARKS
BA	ANKING EQUIPMEN	Т			
03	ATM WALK-UP (TTW)	NCR	64.21"H X 30.31"W X 44.65"D	UNIT AND PLINTH FURNISHED & INSTALLED BY CFG SPECIFIED	
		MODEL: NCR 6684,CEN 1, 19" TOUCHSCREEN, 5 HIGH ENCLOSURE		VENDOR	
05	NIGHT DEPOSITORY (WALK-UP)	EXISTING TO REMAIN	_	_	
07	STANDING HEIGHT TCR	GLORY RBG-100 INTELLIGENT CASH RECYCLER	W/ OPERATION MONITOR: 48"H X 16.5"W X 38.7"D W/OUT OPERATION MONITOR: 44.2"H X 16.5"W X 38.7"D	FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR	LOCATION: TRANSACTION ZONE
			UNDER COUNTER: 37.2"H X 16.5"W X 21.9"D		
09	UNDERCOUNTER STEEL	DIEBOLD (C)	38.25"H X 18.69"W X 18.69"D	FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR	LOCATION: TRANSACTION ZONE
	(STANDING HEIGHT)	MODEL: #SU-4LL/RL PRODUCT: 220-14		SPECIFIED VENDOR	ORDER (1) P-1500-CTK POLYMER CASH TRAY KITS W NOTE: WHEN ORDERING INDICATE LEFT OR RIGHT HANI DOOR SWING. LEFT HAND DOOR SWING RIGHT HAND DOOR SWING
11	UNENCASED SAFE (FULL)	DIEBOLD NIXDORF MODEL #271-95-TL-15	72"H X 40"W X 30.875"D	FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR	LOCATION: CASH/COUNTING NOTE: WHEN ORDERING INDICATE LEFT OR RIGHT HAND DOOR SWING. LEFT HAND DOOR SWING RIGHT HAND DOOR SWING
3	SECURE SHREDDING CONSOLE	IRON MOUNTAIN MINI CONSOLE	27"H X 19"W X 16"D	FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR	LOCATION: TRANSACTION ZONE
4	SECURE SHREDDING CONSOLE	IRON MOUNTAIN	35"H X 19"W X 19"D	FURNISHED & INSTALLED BY CFG	LOCATION: CASH/COUNTING
6	(STANDARD) PASSBOOK PRINTER	STANDARD CONSOLE DIEBOLD NIXDORF	6.7"H X 15"W X 11.10"D	SPECIFIED VENDOR FURNISHED & INSTALLED BY	LOCATION: HOTEL LOCATION: TRANSACTION ZONE
7	THERMAL RECEIPT PRINTER	MODEL: 4915 ITHACA	5.9"H X 6.3"W X 8.5"D	CFG SPECIFIED VENDOR FURNISHED & INSTALLED BY	LOCATION: TRANSACTION ZONE
		MODEL: 280		CFG SPECIFIED VENDOR	LOCATION: OFFICES (RETAIL ONLY)
2	PHONE	CISCO UNIFIED IP PHONE MODEL: 8841	9.02"H X 10.13"W X 1.57"D	FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR	LOCATION: TRANSACTION ZONE LOCATION: OFFICESLOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: COMMAND ZONE (WALL-MOUNTES)
3	EMERGENCY PHONE	AT&T TRIMLINE MODEL: #210	APPROXIMATE DIMS:	FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR	LOCATION: TRANSACTION ZONE
1	UV LIGHT LAMP	FRAUD FIGHTER MODEL: T5UV16—POS15	7"H X 6"W X 10"D 6.0"H X 6.75"W X 3.75"D	PROVIDED BY CITIZENS BANK OCR TEAM	LOCATION: TRANSACTION ZONE LOCATION: OFFICES
 5	CASH ADVANCE MACHINE	VERIFONE	2.44"H X 3.43"W X 7.99"D	FURNISHED & INSTALLED BY	(RETAIL ONLY) LOCATION: TRANSACTION ZONE
		MODEL: Vx520		CFG SPECIFIED VENDOR	
5	SCANNER-DIGITAL CHECK TELLER SCAN	TELLERSCAN MODEL: TS240	7.5"H X 5.1"W X 11.1"D	FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR	LOCATION: TRANSACTION ZONE
0	INSTANT ISSUANCE SYSTEM	ENTRUST MODEL: CD820	SIX-COMPARTMENT MULTI-HOPPER SYSTEM:16.5"W X 27.5"D X 14.5"H	FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR	LOCATION: CASH/COUNTING
1	PIN PAD	INGENICO ISC350	9.48"H X 6.69"W X 2.4"D	FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR	LOCATION: TRANSACTION ZONE LOCATION: OFFICES
 2	PRINTER	LEXMARK	21.5"H X 19.3"W X 18.8"D	FURNISHED & INSTALLED BY	LOCATION: CHECK-IN DESK LOCATION: HOTELS
 3	PRINTER	MODEL: MX622adhe LEXMARK	25"H X 19.3"W X 18.8"D	CFG SPECIFIED VENDOR FURNISHED & INSTALLED BY	LOCATION: CASH/COUNTING
		MODEL: MX622adhe NOTE: ADDITIONAL 250 SHEET TRAY		CFG SPECIFIED VENDOR	LOOKHON. ONSHIP COOKING
4	CURRENCY COUNTER	G+D CURRENCY TECHNOLOGY MODEL: PRO NOTE 1.5 BANK NOTE COUNTER AND SORTER	13.18"H X 11.02"W X 10.62"D	FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR	LOCATION: TRANSACTION ZONE LOCATION: CASH/COUNTING
TE	CHNOLOGY & DIGI	TAL ELEMENTS			
	СРИ	LENOVO M919	_	FURNISHED & INSTALLED BY	LOCATION: TRANSACTION ZONE
		MODEL: CTZ-M919-4518		CFG SPECIFIED VENDOR	LOCATION: OFFICES LOCATION: CASH/COUNTING
					LOCATION: HOTEL LOCATION: CHECK-IN ZONE
)2	MOUSE	MODEL: T.B.D.	_	FURNISHED & INSTALLED BY	LOCATION: TRANSACTION ZONE
2	MOUSE	MODEL: T.B.D.	_	FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR	LOCATION: OFFICES LOCATION: CASH/COUNTING
)2	MOUSE	MODEL: T.B.D.	_		LOCATION: OFFICES
	MOUSE KEYBOARD	MODEL: T.B.D. LENOVO MODEL: CTZ-41A5289	-		LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK-IN ZONE LOCATION: TRANSACTION ZONE LOCATION: OFFICES
		LENOVO	_	CFG SPECIFIED VENDOR FURNISHED & INSTALLED BY	LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK—IN ZONE LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL
)3	KEYBOARD	LENOVO MODEL: CTZ-41A5289	-	CFG SPECIFIED VENDOR FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR	LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK-IN ZONE LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK-IN ZONE
3		LENOVO	_	CFG SPECIFIED VENDOR FURNISHED & INSTALLED BY	LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK-IN ZONE LOCATION: TRANSACTION ZONE LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK-IN ZONE LOCATION: OFFICES
3	KEYBOARD	LENOVO MODEL: CTZ-41A5289 LENOVO		CFG SPECIFIED VENDOR FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR FURNISHED & INSTALLED BY	LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK-IN ZONE LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK-IN ZONE LOCATION: TRANSACTION ZONE
)3	KEYBOARD	LENOVO MODEL: CTZ-41A5289 LENOVO		CFG SPECIFIED VENDOR FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR FURNISHED & INSTALLED BY	LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK—IN ZONE LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK—IN ZONE LOCATION: TRANSACTION ZONE LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: CASH/COUNTING LOCATION: CHECK—IN ZONE NOTE: INSTALLED IN EXISTING BRANCHES
4	KEYBOARD	LENOVO MODEL: CTZ-41A5289 LENOVO	- - - 19"	CFG SPECIFIED VENDOR FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR FURNISHED & INSTALLED BY	LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK—IN ZONE LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK—IN ZONE LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: CASH/COUNTING LOCATION: CHECK—IN ZONE LOCATION: CHECK—IN ZONE NOTE: INSTALLED IN EXISTING BRANCHES LOCATION: TRANSACTION ZONE LOCATION: TRANSACTION ZONE LOCATION: OFFICES
)4	KEYBOARD 19" LCD MONITOR	LENOVO MODEL: CTZ-41A5289 LENOVO MODEL: CTZ-4431-HE1	- - 19"	FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR FURNISHED & INSTALLED BY	LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK—IN ZONE LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK—IN ZONE LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK—IN ZONE NOTE: INSTALLED IN EXISTING BRANCHES LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: CASH/COUNTING LOCATION: CASH/COUNTING LOCATION: CHECK—IN ZONE
03	KEYBOARD 19" LCD MONITOR MONITOR PRIVACY SCREEN 19"	LENOVO MODEL: CTZ-41A5289 LENOVO MODEL: CTZ-4431-HE1 MODEL: PF190C4B	- - 19"	FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR	LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK—IN ZONE LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK—IN ZONE LOCATION: TRANSACTION ZONE LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK—IN ZONE NOTE: INSTALLED IN EXISTING BRANCHES LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: CASH/COUNTING LOCATION: CHECK—IN ZONE NOTE: INSTALLED IN EXISTING BRANCHES
03	KEYBOARD 19" LCD MONITOR	LENOVO MODEL: CTZ-41A5289 LENOVO MODEL: CTZ-4431-HE1	- - 19"	FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR FURNISHED & INSTALLED BY	LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: TRANSACTION ZONE LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: OFFICES LOCATION: OFFICES LOCATION: HOTEL LOCATION: HOTEL LOCATION: HOTEL LOCATION: HOTEL LOCATION: OFFICES LOCATION: OFFICES LOCATION: TRANSACTION ZONE NOTE: INSTALLED IN EXISTING BRANCHES LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: HOTEL LOCATION: HOTEL LOCATION: CHECK—IN ZONE NOTE: INSTALLED IN EXISTING BRANCHES NETWORK CONTRACTOR TO PROVIDE STANDARD 19" 2—POST DATA RACK FOR ROUTER, SWITCH & PATCH PANEL
05	KEYBOARD 19" LCD MONITOR MONITOR PRIVACY SCREEN 19" IT RACK	LENOVO MODEL: CTZ-41A5289 LENOVO MODEL: CTZ-4431-HE1 MODEL: PF190C4B CHATSWORTH HEAVY DUTY WALL-MOUNTED EQUIPMENT RACK	_	FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR	LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: HOTEL LOCATION: CHECK—IN ZONE LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK—IN ZONE NOTE: INSTALLED IN EXISTING BRANCHES LOCATION: OFFICES LOCATION: OFFICES LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: OFFICES LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: HOTEL LOCATION: CHECK—IN ZONE NOTE: INSTALLED IN EXISTING BRANCHES NETWORK CONTRACTOR TO PROVIDE STANDARD 19" 2—POST DATA RACK FOR ROUTER, SWITCH & PATCH PANEL OPEN, LIMITED SPACE
000000000000000000000000000000000000000	KEYBOARD 19" LCD MONITOR MONITOR PRIVACY SCREEN 19"	LENOVO MODEL: CTZ-41A5289 LENOVO MODEL: CTZ-4431-HE1 MODEL: PF190C4B CHATSWORTH HEAVY DUTY WALL-MOUNTED EQUIPMENT	- 19" - 37.9"W X 21.8"H	FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR UNIT PROVIDED BY MONITOR VENDOR GC TO PROVIDE REQUIRED BLOCKING, POWER & DATA. REFER TO MONITOR	LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: TRANSACTION ZONE LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: OFFICES LOCATION: OFFICES LOCATION: HOTEL LOCATION: HOTEL LOCATION: HOTEL LOCATION: HOTEL LOCATION: OFFICES LOCATION: OFFICES LOCATION: TRANSACTION ZONE NOTE: INSTALLED IN EXISTING BRANCHES LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: HOTEL LOCATION: CHECK—IN ZONE NOTE: INSTALLED IN EXISTING BRANCHES NETWORK CONTRACTOR TO PROVIDE STANDARD 19" 2—POST DATA RACK FOR ROUTER, SWITCH & PATCH PANEL
3 4 5	KEYBOARD 19" LCD MONITOR MONITOR PRIVACY SCREEN 19" IT RACK	LENOVO MODEL: CTZ-41A5289 LENOVO MODEL: CTZ-4431-HE1 MODEL: PF190C4B CHATSWORTH HEAVY DUTY WALL-MOUNTED EQUIPMENT RACK SAMSUNG MODEL: PM-43H	_	FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR UNIT PROVIDED BY MONITOR VENDOR GC TO PROVIDE REQUIRED BLOCKING,	LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK—IN ZONE LOCATION: TRANSACTION ZONE LOCATION: CASH/COUNTING LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK—IN ZONE LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK—IN ZONE NOTE: INSTALLED IN EXISTING BRANCHES LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: CHECK—IN ZONE NOTE: INSTALLED IN EXISTING BRANCHES NETWORK CONTRACTOR TO PROVIDE STANDARD 19" 2—POST DATA RACK FOR ROUTER, SWITCH & PATCH PANEL OPEN, LIMITED SPACE
004	KEYBOARD 19" LCD MONITOR MONITOR PRIVACY SCREEN 19" IT RACK MONITOR	LENOVO MODEL: CTZ-41A5289 LENOVO MODEL: CTZ-4431-HE1 MODEL: PF190C4B CHATSWORTH HEAVY DUTY WALL-MOUNTED EQUIPMENT RACK SAMSUNG MODEL: PM-43H 43" MONITOR	- 37.9"W X 21.8"H	FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR UNIT PROVIDED BY MONITOR VENDOR GC TO PROVIDE REQUIRED BLOCKING, POWER & DATA. REFER TO MONITOR VENDOR DRAWING PACKAGE. UNIT PROVIDED BY MONITOR VENDOR GC TO PROVIDE REQUIRED BLOCKING, POWER & DATA. REFER TO MONITOR CTO PROVIDED BY MONITOR VENDOR GC TO PROVIDE REQUIRED BLOCKING, POWER & DATA. REFER TO MONITOR	LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK-IN ZONE LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK-IN ZONE LOCATION: TRANSACTION ZONE LOCATION: CHECK-IN ZONE LOCATION: OFFICES LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK-IN ZONE NOTE: INSTALLED IN EXISTING BRANCHES LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: OFFICES LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK-IN ZONE NOTE: INSTALLED IN EXISTING BRANCHES NETWORK CONTRACTOR TO PROVIDE STANDARD 19" 2-POST DATA RACK FOR ROUTER, SWITCH & PATCH PANEL OPEN, LIMITED SPACE LOCATION: FA SCREEN LOBBY PORTRAIT
003	KEYBOARD 19" LCD MONITOR MONITOR PRIVACY SCREEN 19" IT RACK MONITOR	LENOVO MODEL: CTZ-41A5289 LENOVO MODEL: CTZ-4431-HE1 MODEL: PF190C4B CHATSWORTH HEAVY DUTY WALL-MOUNTED EQUIPMENT RACK SAMSUNG MODEL: PM-43H 43" MONITOR SAMSUNG MODEL: QM-55R	- 37.9"W X 21.8"H	FURNISHED & INSTALLED BY CFG SPECIFIED VENDOR UNIT PROVIDED BY MONITOR VENDOR GC TO PROVIDE REQUIRED BLOCKING, POWER & DATA. REFER TO MONITOR VENDOR DRAWING PACKAGE. UNIT PROVIDED BY MONITOR VENDOR GC TO PROVIDE REQUIRED BLOCKING, OUT OF TO PROVIDE REQUIRED BLOCKING, GC TO PROVIDE REQUIRED BLOCKING, GC TO PROVIDE REQUIRED BLOCKING,	LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: HOTEL LOCATION: CHECK-IN ZONE LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: TRANSACTION ZONE LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: HOTEL LOCATION: OFFICES LOCATION: TRANSACTION ZONE NOTE: INSTALLED IN EXISTING BRANCHES LOCATION: TRANSACTION ZONE LOCATION: OFFICES LOCATION: CASH/COUNTING LOCATION: CASH/COUNTING LOCATION: HOTEL LOCATION: CHECK-IN ZONE NOTE: INSTALLED IN EXISTING BRANCHES NETWORK CONTRACTOR TO PROVIDE STANDARD 19" 2-POST DATA RACK FOR ROUTER, SWITCH & PATCH PANEL OPEN, LIMITED SPACE LOCATION: FA SCREEN LOBBY PORTRAIT

NOTE:
ON GC PROVIDED ITEMS, NO SUBSTITUTIONS OR DEVIATIONS FROM THE ABOVE WILL BE ACCEPTED.

	QUIPMENT SCHEDUI	LE (CONTINUED)		(XX) EQUIPMENT WITHOUT POWER	R SUPPLY XX EQUIPMENT WITH POWER SUPPLY
MBEI	DESCRIPTION	MANUF/ MODEL NO./COLOR	DIMENSION	PROVIDED BY	REMARKS
R	ESTROOM ACCESSO	ORIES & PLUMBING FIXT	URES		
606	RESTROOM FAUCET	TOTO STANDARD ECOPOWER FAUCET TEL105-D10E	4.5"H X 2"W X 3.938"D	GENERAL CONTRACTOR	
07	ADA STRAIGHT GRAB BAR	FINISH: POLISHED CHROME #CP BOBRICK 18"	18"W X 1.25"DIA. TUBING	GENERAL CONTRACTOR	LOCATION: RESTROOMS
		B-5806.99-18 PEENED FINISH: SATIN STAINLESS STEEL			
8	ADA STRAIGHT GRAB BAR	BOBRICK 36" B-5806.99-36 PEENED FINISH: SATIN STAINLESS STEEL	36"W X 1.25"DIA. TUBING	GENERAL CONTRACTOR	LOCATION: RESTROOMS
9	ADA STRAIGHT GRAB BAR	BOBRICK 42" B-5806.99-42 PEENED	42"W X 1.25"DIA. TUBING	GENERAL CONTRACTOR	LOCATION: RESTROOMS
0	TOILET TISSUE DISPENSER	FINISH: SATIN STAINLESS STEEL KIMBERLY-CLARKE PROFESSIONAL CORELESS DOUBLE ROLL BATHROOM TISSUE DISPENSER, SERIES-I - 09604 COLOR: BLACK	7.63"H X 11"W X 6"D	GENERAL CONTRACTOR	LOCATION: RESTROOMS
11	SOAP DISPENSER	KIMBERLY-CLARKE PROFESSIONAL CASSETTE SKIN DISPENSER 1000 ML MODEL: 92145-03	8.36"H X 4.85"W X 5.43"D	GENERAL CONTRACTOR	LOCATION: RESTROOMS
312	RECESSED COMBINATION PAPER TOWEL & TRASH RECEPTACLE	KIMBERLY-CLARKE PROFESSIONAL SCOTT PRO STAINLESS STEEL RECESSED WALL UNIT W/ TRASH RECEPTACLE SKU: 35370 RECESSED DISPENSER NARROW HOUSING SKU: 31498 MANUAL MODULE SKU: 34359	54.5"H X 11.5"W X 4"D	GENERAL CONTRACTOR	LOCATION: RESTROOMS
313	STORAGE CABINET	THE HOME DEPOT SHAKER STYLE FLOOR CABINET MODEL: 5337WWHD STORE SKU: 1004101694 COLOR: WHITE	29.9"H X 16"W X 12"D	GENERAL CONTRACTOR	LOCATION: RESTROOMS
314	MIRROR	HELSINKI RECTANGULAR TILTING MIRROR SKU: 924080 FINISH: CHROME	32"H X 26.25"W X 2.75"D	GENERAL CONTRACTOR	LOCATION: RESTROOMS
315	BABY CHANGING TABLE	KOALA KARE BABY CHANGING STATION HORIZONTAL WALL—MOUNTED MODEL: KB200 COLOR: 05 WHITE GRANITE	22.25"H X 35.19"W X 3.75"D	GENERAL CONTRACTOR	INSTALL PER MANUFACTURER'S HEIGHTS & RECOMMENDATIONS.
17	FLOOR-MOUNTED TOILET	TOTO CST744E, TANK TYPE COLOR: COTTON #01	28.5"H X 19.78"W X 28"D	GENERAL CONTRACTOR	ADA COMPLIANT — FLOOR—MOUNTED E—MAX 1.28GPF/4,8LPF FOR USE IN SITES WHERE 1" WATER SUPPLY OR LESS IS REQUIRED LOCATE LEVER ON APPROACH SIDE ORDER WITH #SC134 ELONGATED COMMERCIAL SEAT
320	SANITARY NAPKIN RECEPTACLE	ULINE WALL MOUNT MODEL: H-3454 FINISH: STAINLESS STEEL	10"H X 7"W X 4"D	GENERAL CONTRACTOR	WALL-MOUNTED LOCATION: RESTROOMS
		THINISH. STAINLESS STELL			
	SANITARY NAPKIN LINERS	ULINE MODEL: S-15960 MATERIAL: GUSSETED WAX PAPER QUANTITY: 500 PER CASE	-	GENERAL CONTRACTOR	LOCATION: RESTROOMS
P /		MODEL:S-15960 MATERIAL: GUSSETED WAX PAPER	- 22" X 19.5" X 6.5"	GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR	LOCATION: RESTROOMS LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER
P /	ANTRY APPLIANCES PANTRY SINK PANTRY FAUCET	MODEL: S-15960 MATERIAL: GUSSETED WAX PAPER QUANTITY: 500 PER CASE S & PLUMBING FIXTURES ELKAY LRADQ221965 FINISH: STAINLESS STEEL KOHLER SIMPLICE K-596 FINISH: VIBRANT STAINLESS	22" X 19.5" X 6.5" 16.625"H X 2"W X 9"D	GENERAL CONTRACTOR GENERAL CONTRACTOR	LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER
P /401 -02 -03	PANTRY APPLIANCES PANTRY SINK PANTRY FAUCET UNDER COUNTER MICROWAVE	MODEL: S-15960 MATERIAL: GUSSETED WAX PAPER QUANTITY: 500 PER CASE S PLUMBING FIXTURES ELKAY LRADQ221965 FINISH: STAINLESS STEEL KOHLER SIMPLICE K-596 FINISH: VIBRANT STAINLESS GE APPLIANCES 950W MODEL: JES1145SHSS COLOR: STAINLESS STEEL	22" X 19.5" X 6.5" 16.625"H X 2"W X 9"D 12"H X 20.313"W X 15.625"D	GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR	LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER INSTALLED BELOW COUNTER LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY
P 2401 -02 -03 -03	PANTRY APPLIANCES PANTRY SINK PANTRY FAUCET UNDER COUNTER MICROWAVE UNDER COUNTER REFRIGERATOR	MODEL: S-15960 MATERIAL: GUSSETED WAX PAPER QUANTITY: 500 PER CASE S & PLUMBING FIXTURES ELKAY LRADQ221965 FINISH: STAINLESS STEEL KOHLER SIMPLICE K-596 FINISH: VIBRANT STAINLESS GE APPLIANCES 950W MODEL: JES1145SHSS COLOR: STAINLESS STEEL SUMMIT APPLIANCE MODEL: SKU: AL55CSS COLOR: STAINLESS STEEL	22" X 19.5" X 6.5" 16.625"H X 2"W X 9"D 12"H X 20.313"W X 15.625"D 31.63"H X 23.5"W X 23.38"D	GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR	LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER INSTALLED BELOW COUNTER LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY NOTE: ORDER (1) 1875W FLAT PLUG EXTENSION CORD 1 FOOT, 15A 14AWG
P /-01 002 003 004	PANTRY APPLIANCES PANTRY SINK PANTRY FAUCET UNDER COUNTER MICROWAVE UNDER COUNTER REFRIGERATOR COFFEE MAKER	MODEL: S—15960 MATERIAL: GUSSETED WAX PAPER QUANTITY: 500 PER CASE S & PLUMBING FIXTURES ELKAY LRADQ221965 FINISH: STAINLESS STEEL KOHLER SIMPLICE K—596 FINISH: VIBRANT STAINLESS GE APPLIANCES 950W MODEL: JES1145SHSS COLOR: STAINLESS STEEL SUMMIT APPLIANCE MODEL: SKU: AL55CSS COLOR: STAINLESS STEEL KEURIG MODEL: K1500 COFFEE MAKER SMALL BUSINESS BREWING SYSTEM	22" X 19.5" X 6.5" 16.625"H X 2"W X 9"D 12"H X 20.313"W X 15.625"D 31.63"H X 23.5"W X 23.38"D	GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR	LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER INSTALLED BELOW COUNTER LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY NOTE: ORDER (1) 1875W FLAT PLUG EXTENSION CORD 1 FOOT, 15A 14AWG LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY
P /401 401 402 403 404	PANTRY APPLIANCES PANTRY SINK PANTRY FAUCET UNDER COUNTER MICROWAVE UNDER COUNTER REFRIGERATOR	MODEL: S-15960 MATERIAL: GUSSETED WAX PAPER QUANTITY: 500 PER CASE S & PLUMBING FIXTURES ELKAY LRADQ221965 FINISH: STAINLESS STEEL KOHLER SIMPLICE K-596 FINISH: VIBRANT STAINLESS GE APPLIANCES 950W MODEL: JES1145SHSS COLOR: STAINLESS STEEL SUMMIT APPLIANCE MODEL: SKU: AL55CSS COLOR: STAINLESS STEEL KEURIG MODEL: K1500 COFFEE MAKER	22" X 19.5" X 6.5" 16.625"H X 2"W X 9"D 12"H X 20.313"W X 15.625"D 31.63"H X 23.5"W X 23.38"D	GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR	LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER INSTALLED BELOW COUNTER LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY NOTE: ORDER (1) 1875W FLAT PLUG EXTENSION CORD 1 FOOT, 15A 14AWG LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER
P /401 401 402 403 407	PANTRY APPLIANCES PANTRY SINK PANTRY FAUCET UNDER COUNTER MICROWAVE UNDER COUNTER REFRIGERATOR COFFEE MAKER WATER COOLING SYSTEM	MODEL: S-15960 MATERIAL: GUSSETED WAX PAPER QUANTITY: 500 PER CASE S & PLUMBING FIXTURES ELKAY LRADQ221965 FINISH: STAINLESS STEEL KOHLER SIMPLICE K-596 FINISH: VIBRANT STAINLESS GE APPLIANCES 950W MODEL: JES1145SHSS COLOR: STAINLESS STEEL SUMMIT APPLIANCE MODEL: SKU: AL55CSS COLOR: STAINLESS STEEL KEURIG MODEL: K1500 COFFEE MAKER SMALL BUSINESS BREWING SYSTEM ECOSTREAM WATER COOLING SYSTEM	22" X 19.5" X 6.5" 16.625"H X 2"W X 9"D 12"H X 20.313"W X 15.625"D 31.63"H X 23.5"W X 23.38"D 12.35"H X 10.25"W X 12.1"D	GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR	LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER INSTALLED BELOW COUNTER LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY NOTE: ORDER (1) 1875W FLAT PLUG EXTENSION CORD 1 FOOT, 15A 14AWG LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY
P /401 401 402 403 407 410	PANTRY APPLIANCES PANTRY SINK PANTRY FAUCET UNDER COUNTER MICROWAVE UNDER COUNTER REFRIGERATOR COFFEE MAKER WATER COOLING SYSTEM	MODEL: S-15960 MATERIAL: GUSSETED WAX PAPER QUANTITY: 500 PER CASE S & PLUMBING FIXTURES ELKAY LRADQ221965 FINISH: STAINLESS STEEL KOHLER SIMPLICE K-596 FINISH: VIBRANT STAINLESS GE APPLIANCES 950W MODEL: JES1145SHSS COLOR: STAINLESS STEEL SUMMIT APPLIANCE MODEL: SKU: AL55CSS COLOR: STAINLESS STEEL KEURIG MODEL: K1500 COFFEE MAKER SMALL BUSINESS BREWING SYSTEM ECOSTREAM WATER COOLING SYSTEM MODEL: IPC2U	22" X 19.5" X 6.5" 16.625"H X 2"W X 9"D 12"H X 20.313"W X 15.625"D 31.63"H X 23.5"W X 23.38"D 12.35"H X 10.25"W X 12.1"D	GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR	LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER INSTALLED BELOW COUNTER LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY NOTE: ORDER (1) 1875W FLAT PLUG EXTENSION CORD 1 FOOT, 15A 14AWG LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY
P /401 401 402 403 407 410 F /606	PANTRY APPLIANCES PANTRY SINK PANTRY FAUCET UNDER COUNTER MICROWAVE UNDER COUNTER REFRIGERATOR COFFEE MAKER WATER COOLING SYSTEM	MODEL: S-15960 MATERIAL: GUSSETED WAX PAPER QUANTITY: 500 PER CASE S & PLUMBING FIXTURES ELKAY LRADQ221965 FINISH: STAINLESS STEEL KOHLER SIMPLICE K-596 FINISH: VIBRANT STAINLESS GE APPLIANCES 950W MODEL: JES1145SHSS COLOR: STAINLESS STEEL SUMMIT APPLIANCE MODEL: SKU: AL55CSS COLOR: STAINLESS STEEL KEURIG MODEL: K1500 COFFEE MAKER SMALL BUSINESS BREWING SYSTEM ECOSTREAM WATER COOLING SYSTEM MODEL: IPC2U PRIES & PLUMBING FIXTURES RUBBERMAID 7GAL WASTEBASKET	22" X 19.5" X 6.5" 16.625"H X 2"W X 9"D 12"H X 20.313"W X 15.625"D 31.63"H X 23.5"W X 23.38"D 12.35"H X 10.25"W X 12.1"D 17.25"H X 13"W X 14.66"D	GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR	LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER INSTALLED BELOW COUNTER LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY NOTE: ORDER (1) 1875W FLAT PLUG EXTENSION CORD 1 FOOT, 15A 14AWG LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: FOH PANTRY IN WEALTH CENTER
P/ 401 402 403 407 410 F/	PANTRY APPLIANCES PANTRY SINK PANTRY FAUCET UNDER COUNTER MICROWAVE UNDER COUNTER REFRIGERATOR COFFEE MAKER WATER COOLING SYSTEM CILITIES ACCESSO TRASH CONTAINER	MODEL: S-15960 MATERIAL: GUSSETED WAX PAPER QUANTITY: 500 PER CASE S & PLUMBING FIXTURES ELKAY LRADQ221965 FINISH: STAINLESS STEEL KOHLER SIMPLICE K-596 FINISH: VIBRANT STAINLESS GE APPLIANCES 950W MODEL: JES1145SHSS COLOR: STAINLESS STEEL SUMMIT APPLIANCE MODEL: SKU: AL55CSS COLOR: STAINLESS STEEL KEURIG MODEL: K1500 COFFEE MAKER SMALL BUSINESS BREWING SYSTEM ECOSTREAM WATER COOLING SYSTEM MODEL: IPC2U PRIES & PLUMBING FIXTURES RUBBERMAID 7GAL WASTEBASKET	22" X 19.5" X 6.5" 16.625"H X 2"W X 9"D 12"H X 20.313"W X 15.625"D 31.63"H X 23.5"W X 23.38"D 12.35"H X 10.25"W X 12.1"D 17.25"H X 13"W X 14.66"D	GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR GENERAL CONTRACTOR	LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER INSTALLED BELOW COUNTER LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY NOTE: ORDER (1) 1875W FLAT PLUG EXTENSION CORD 1 FOOT, 15A 14AWG LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: FOH PANTRY IN WEALTH CENTER
P/ 401 402 403 407 410 F/ 606	PANTRY APPLIANCES PANTRY SINK PANTRY FAUCET UNDER COUNTER MICROWAVE UNDER COUNTER REFRIGERATOR COFFEE MAKER WATER COOLING SYSTEM CILITIES ACCESSO TRASH CONTAINER	MODEL: S-15960 MATERIAL: GUSSETED WAX PAPER QUANTITY: 500 PER CASE S. PLUMBING FIXTURES ELKAY LRADQ221965 FINISH: STAINLESS STEEL KOHLER SIMPLICE K-596 FINISH: VIBRANT STAINLESS GE APPLIANCES 950W MODEL: JES1145SHSS COLOR: STAINLESS STEEL SUMMIT APPLIANCE MODEL: SKU: AL55CSS COLOR: STAINLESS STEEL KEURIG MODEL: K1500 COFFEE MAKER SMALL BUSINESS BREWING SYSTEM ECOSTREAM WATER COOLING SYSTEM MODEL: IPC2U DRIES & PLUMBING FIXTU RUBBERMAID 7GAL WASTEBASKET FG295600BE16, BEIGE LARSEN'S MANUFACTURING CO. SEMI-RECESSED 2½", SS.	22" X 19.5" X 6.5" 16.625"H X 2"W X 9"D 12"H X 20.313"W X 15.625"D 31.63"H X 23.5"W X 23.38"D 12.35"H X 10.25"W X 12.1"D 17.25"H X 13"W X 14.66"D URES 15"H X 10.25"W X 14.375"D	GENERAL CONTRACTOR	LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER INSTALLED BELOW COUNTER LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: BOH ADVISORY PANTRY NOTE: ORDER (1) 1875W FLAT PLUG EXTENSION CORD 1 FOOT, 15A 14AWG LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: FOH BOH PANTRIES IN WEALTH CENTER LOCATION: FOH PANTRY IN WEALTH CENTER LOCATION: FOH PANTRY IN WEALTH CENTER LOCATION: MEETING ROOMS DOUBLE UP STUDS FOR REQUIRED CABINET DEPTH AS REQUIRED. LOCATE TOP OF CABINET 48" A.F.F. PROVIDE STANDARD BRACKET #546 NOTE: BRACKET SHOULD ONLY BE USED WHEN THE #601 CABINET IS NOT
P/ 401 402 403 407 410 F/ 601	PANTRY APPLIANCES PANTRY SINK PANTRY FAUCET UNDER COUNTER MICROWAVE UNDER COUNTER REFRIGERATOR COFFEE MAKER WATER COOLING SYSTEM CILITIES ACCESSO TRASH CONTAINER RE & LIFE SAFETY FIRE EXTINGUISHER CABINET	MODEL: S-15960 MATERIAL: GUSSETED WAX PAPER QUANTITY: 500 PER CASE S & PLUMBING FIXTURES ELKAY LRADQ221965 FINISH: STAINLESS STEEL KOHLER SIMPLICE K-596 FINISH: VIBRANT STAINLESS GE APPLIANCES 950W MODEL: JES1145SHSS COLOR: STAINLESS STEEL SUMMIT APPLIANCE MODEL: SKU: AL55CSS COLOR: STAINLESS STEEL KEURIG MODEL: K1500 COFFEE MAKER SMALL BUSINESS BREWING SYSTEM ECOSTREAM WATER COOLING SYSTEM MODEL: IPC2U DRIES & PLUMBING FIXTU RUBBERMAID 7GAL WASTEBASKET FG295600BE16, BEIGE LARSEN'S MANUFACTURING CO. SEMI-RECESSED 2½", SS. VERTICAL DUO DOOR, #2409-6R LARSEN'S MANUFACTURING CO. 10 LB. MULTIPURPOSE CLASS A, B, C TYPE: FIRE EXTINGUISHER, MODEL MP10 SAFETY SIGNS FIRE EXTINGUISHER DO NOT BLOCK LABEL	22" X 19.5" X 6.5" 16.625"H X 2"W X 9"D 12"H X 20.313"W X 15.625"D 31.63"H X 23.5"W X 23.38"D 12.35"H X 10.25"W X 12.1"D 17.25"H X 13"W X 14.66"D URES 15"H X 10.25"W X 14.375"D	GENERAL CONTRACTOR	LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER INSTALLED BELOW COUNTER LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: BOH ADVISORY PANTRY NOTE: ORDER (1) 1875W FLAT PLUG EXTENSION CORD 1 FOOT, 15A 14AWG LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: FOH BOH PANTRIES IN WEALTH CENTER LOCATION: FOH PANTRY IN WEALTH CENTER LOCATION: FOH PANTRY IN WEALTH CENTER LOCATION: MEETING ROOMS DOUBLE UP STUDS FOR REQUIRED CABINET DEPTH AS REQUIRED. LOCATE TOP OF CABINET 48" A.F.F. PROVIDE STANDARD BRACKET #546 NOTE: BRACKET SHOULD ONLY BE USED
401 402 403 407 410 F/ 601 601	PANTRY APPLIANCES PANTRY SINK PANTRY FAUCET UNDER COUNTER MICROWAVE UNDER COUNTER REFRIGERATOR COFFEE MAKER WATER COOLING SYSTEM ACILITIES ACCESSO TRASH CONTAINER FIRE EXTINGUISHER CABINET FIRE EXTINGUISHER FIRE EXTINGUISHER DECAL—	MODEL: S-15960 MATERIAL: GUSSETED WAX PAPER QUANTITY: 500 PER CASE S & PLUMBING FIXTURES ELKAY LRADQ221965 FINISH: STAINLESS STEEL KOHLER SIMPLICE K-596 FINISH: VIBRANT STAINLESS GE APPLIANCES 950W MODEL: JES1145SHSS COLOR: STAINLESS STEEL SUMMIT APPLIANCE MODEL: SKU: AL55CSS COLOR: STAINLESS STEEL KEURIG MODEL: K1500 COFFEE MAKER SMALL BUSINESS BREWING SYSTEM ECOSTREAM WATER COOLING SYSTEM MODEL: IPC2U DRIES & PLUMBING FIXTI RUBBERMAID 7GAL WASTEBASKET FG295600BE16, BEIGE LARSEN'S MANUFACTURING CO. SEMI-RECESSED 2½", SS. VERTICAL DUO DOOR, #2409-6R LARSEN'S MANUFACTURING CO. 10 LB. MULTIPURPOSE CLASS A, B, C TYPE: FIRE EXTINGUISHER, MODEL MP10 SAFETY SIGNS	22" X 19.5" X 6.5" 16.625"H X 2"W X 9"D 12"H X 20.313"W X 15.625"D 31.63"H X 23.5"W X 23.38"D 12.35"H X 10.25"W X 12.1"D 17.25"H X 13"W X 14.66"D URES 15"H X 10.25"W X 14.375"D R.O. DIM: 25" X 10½" X 4"	GENERAL CONTRACTOR	LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER INSTALLED BELOW COUNTER LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: BOH ADVISORY PANTRY NOTE: ORDER (1) 1875W FLAT PLUG EXTENSION CORD 1 FOOT, 15A 14AWG LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: FOH BOH PANTRIES IN WEALTH CENTER LOCATION: FOH PANTRY IN WEALTH CENTER LOCATION: FOH PANTRY IN WEALTH CENTER LOCATION: MEETING ROOMS DOUBLE UP STUDS FOR REQUIRED CABINET DEPTH AS REQUIRED. LOCATE TOP OF CABINET 48" A.F.F. PROVIDE STANDARD BRACKET #546 NOTE: BRACKET SHOULD ONLY BE USED WHEN THE #601 CABINET IS NOT
401 402 403 404 407 410 506 FI 601 602	PANTRY APPLIANCES PANTRY SINK PANTRY FAUCET UNDER COUNTER MICROWAVE UNDER COUNTER REFRIGERATOR COFFEE MAKER WATER COOLING SYSTEM ACILITIES ACCESSO TRASH CONTAINER FIRE EXTINGUISHER CABINET FIRE EXTINGUISHER FIRE EXTINGUISHER FIRE EXTINGUISHER FIRE ALARM BEACON LIGHT	MODEL: S-15960 MATERIAL: GUSSETED WAX PAPER QUANTITY: 500 PER CASE S. PLUMBING FIXTURES ELKAY LRADQ221965 FINISH: STAINLESS STEEL KOHLER SIMPLICE K-596 FINISH: VIBRANT STAINLESS GE APPLIANCES 950W MODEL: JES1145SHSS COLOR: STAINLESS STEEL SUMMIT APPLIANCE MODEL: SKU: AL55CSS COLOR: STAINLESS STEEL KEURIG MODEL: K1500 COFFEE MAKER SMALL BUSINESS BREWING SYSTEM ECOSTREAM WATER COOLING SYSTEM MODEL: IPC2U DRIES & PLUMBING FIXTU RUBBERMAID 7GAL WASTEBASKET FG295600BE16, BEIGE LARSEN'S MANUFACTURING CO. SEMI-RECESSED 2½", SS. VERTICAL DUO DOOR, #2409-6R LARSEN'S MANUFACTURING CO. 10 LB. MULTIPURPOSE CLASS A, B, C TYPE: FIRE EXTINGUISHER, MODEL MP10 SAFETY SIGNS FIRE EXTINGUISHER DO NOT BLOCK LABEL ITEM #A5030-AY -	22" X 19.5" X 6.5" 16.625"H X 2"W X 9"D 12"H X 20.313"W X 15.625"D 31.63"H X 23.5"W X 23.38"D 12.35"H X 10.25"W X 12.1"D 17.25"H X 13"W X 14.66"D URES 15"H X 10.25"W X 14.375"D R.O. DIM: 25" X 10½" X 4"	GENERAL CONTRACTOR	LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY NOTE: ORDER (1) 1875W FLAT PLUG EXTENSION CORD 1 FOOT, 15A 14AWG LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: FOH ADVISORY PANTRY LOCATION: FOH ADVISORY PANTRY LOCATION: FOH PANTRY IN WEALTH CENTER LOCATION: FOH PANTRY IN WEALTH CENTER LOCATION: MEETING ROOMS DOUBLE UP STUDS FOR REQUIRED CABINET DEPTH AS REQUIRED. LOCATE TOP OF CABINET 48" A.F.F. PROVIDE STANDARD BRACKET #546 NOTE: BRACKET SHOULD ONLY BE USED WHEN THE #601 CABINET IS NOT PROVIDED. SEE FIRE ALARM DRAWINGS COORDINATE EXACT LOCATION & SPECIFICATION
401 402 403 404 407 410 F1 601 602	PANTRY APPLIANCES PANTRY SINK PANTRY FAUCET UNDER COUNTER MICROWAVE UNDER COUNTER REFRIGERATOR COFFEE MAKER WATER COOLING SYSTEM ACILITIES ACCESSO TRASH CONTAINER RE & LIFE SAFETY FIRE EXTINGUISHER CABINET FIRE EXTINGUISHER FIRE EXTINGUISHER DECAL— ARROW/DO NOT BLOCK	MODEL: S-15960 MATERIAL: GUSSETED WAX PAPER QUANTITY: 500 PER CASE S & PLUMBING FIXTURES ELKAY LRADQ221965 FINISH: STAINLESS STEEL KOHLER SIMPLICE K-596 FINISH: VIBRANT STAINLESS GE APPLIANCES 950W MODEL: JES1145SHSS COLOR: STAINLESS STEEL SUMMIT APPLIANCE MODEL: SKU: AL55CSS COLOR: STAINLESS STEEL KEURIG MODEL: K1500 COFFEE MAKER SMALL BUSINESS BREWING SYSTEM ECOSTREAM WATER COOLING SYSTEM MODEL: IPC2U DRIES & PLUMBING FIXTI RUBBERMAID 7GAL WASTEBASKET FG295600BE16, BEIGE LARSEN'S MANUFACTURING CO. SEMI-RECESSED 2½", SS. VERTICAL DUO DOOR, #2409-6R LARSEN'S MANUFACTURING CO. 10 LB. MULTIPURPOSE CLASS A, B, C TYPE: FIRE EXTINGUISHER, MODEL MP10 SAFETY SIGNS FIRE EXTINGUISHER DO NOT BLOCK LABEL ITEM #A5030-AY - UIPMENT TATCO MODEL: TC057910	22" X 19.5" X 6.5" 16.625"H X 2"W X 9"D 12"H X 20.313"W X 15.625"D 31.63"H X 23.5"W X 23.38"D 12.35"H X 10.25"W X 12.1"D 17.25"H X 13"W X 14.66"D URES 15"H X 10.25"W X 14.375"D R.O. DIM: 25" X 10½" X 4"	GENERAL CONTRACTOR	LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: BOH ADVISORY PANTRY NOTE: ORDER (1) 1875W FLAT PLUG EXTENSION CORD 1 FOOT, 15A 14AWG LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: FOH ABOH PANTRIES IN WEALTH CENTER LOCATION: FOH PANTRY IN WEALTH CENTER LOCATION: MEETING ROOMS DOUBLE UP STUDS FOR REQUIRED CABINET DEPTH AS REQUIRED. LOCATE TOP OF CABINET 48" A.F.F. PROVIDE STANDARD BRACKET #546 NOTE: BRACKET SHOULD ONLY BE USED WHEN THE #601 CABINET IS NOT PROVIDED. SEE FIRE ALARM DRAWINGS COORDINATE EXACT LOCATION & SPECIFICATION W/ FIRE DEPARTMENT WIRELESS. INSTALL AT EXTERIOR TO BANKING LOBBY, TELLER AREA TO BREAK ROOM, SAFE
401 402 403 404 407 410 F1 601 602 603 607	PANTRY APPLIANCES PANTRY SINK PANTRY FAUCET UNDER COUNTER MICROWAVE UNDER COUNTER REFRIGERATOR COFFEE MAKER WATER COOLING SYSTEM ACILITIES ACCESSO TRASH CONTAINER FIRE EXTINGUISHER CABINET FIRE EXTINGUISHER DECAL— ARROW/DO NOT BLOCK FIRE ALARM BEACON LIGHT ISCELLANEOUS EQ	MODEL: S-15960 MATERIAL: CUSSETED WAX PAPER QUANTITY: 500 PER CASE S & PLUMBING FIXTURES ELKAY LRADQ221965 FINISH: STAINLESS STEEL KOHLER SIMPLICE K-596 FINISH: VIBRANT STAINLESS GE APPLIANCES 950W MODEL: JES1145SHSS COLOR: STAINLESS STEEL SUMMIT APPLIANCE MODEL: SKU: AL55CSS COLOR: STAINLESS STEEL KEURIG MODEL: K1500 COFFEE MAKER SMALL BUSINESS BREWING SYSTEM ECOSTREAM WATER COOLING SYSTEM MODEL: IPC2U DRIES & PLUMBING FIXTU RUBBERMAID 7GAL WASTEBASKET FG295600BE16, BEIGE LARSEN'S MANUFACTURING CO. SEMI-RECESSED 2½", SS. VERTICAL DUO DOOR, #2409-6R LARSEN'S MANUFACTURING CO. 10 LB: MULTIPURPOSE CLASS A, B, C TYPE: FIRE EXTINGUISHER, MODEL MP10 SAFETY SIGNS FIRE EXTINGUISHER DO NOT BLOCK LABEL ITEM #A5030-AY - UIPMENT TATCO	22" X 19.5" X 6.5" 16.625"H X 2"W X 9"D 12"H X 20.313"W X 15.625"D 31.63"H X 23.5"W X 23.38"D 12.35"H X 10.25"W X 12.1"D 17.25"H X 13"W X 14.66"D WRES 15"H X 10.25"W X 14.375"D R.O. DIM: 25" X 10½" X 4" 20"H X 7.75"W X 5"DIA	GENERAL CONTRACTOR	LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER INSTALLED BELOW COUNTER LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: BOH ADVISORY PANTRY NOTE: ORDER (1) 1875W FLAT PLUG EXTENSION CORD 1 FOOT, 15A 14AWG LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: FOH BOH PANTRIES IN WEALTH CENTER LOCATION: FOH PANTRY IN WEALTH CENTER LOCATION: FOH PANTRY IN WEALTH CENTER LOCATION: MEETING ROOMS DOUBLE UP STUDS FOR REQUIRED CABINET DEPTH AS REQUIRED. LOCATE TOP OF CABINET 48" A.F.F. PROVIDE STANDARD BRACKET #546 NOTE: BRACKET SHOULD ONLY BE USED WHEN THE #601 CABINET IS NOT PROVIDED. SEE FIRE ALARM DRAWINGS COORDINATE EXACT LOCATION & SPECIFICATION W/ FIRE DEPARTMENT
401 402 403 404 407 410 F/ 601 602	PANTRY APPLIANCES PANTRY SINK PANTRY FAUCET UNDER COUNTER MICROWAVE UNDER COUNTER REFRIGERATOR COFFEE MAKER WATER COOLING SYSTEM ACILITIES ACCESSO TRASH CONTAINER FIRE EXTINGUISHER CABINET FIRE EXTINGUISHER DECAL—ARROW/DO NOT BLOCK FIRE ALARM BEACON LIGHT SCELLANEOUS EQ DOORBELL	MODEL: S-15960 MATERIAL: CUSSETED WAX PAPER QUANTITY: 500 PER CASE S & PLUMBING FIXTURES ELKAY LRADQ221965 FINISH: STAINLESS STEEL KOHLER SIMPLICE K-596 FINISH: VIBRANT STAINLESS GE APPLIANCES 950W MODEL: JES1145SHSS COLOR: STAINLESS STEEL SUMMIT APPLIANCE MODEL: SKU: AL55CSS COLOR: STAINLESS STEEL KEURIG MODEL: K1500 COFFEE MAKER SMALL BUSINESS BREWING SYSTEM ECOSTREAM WATER COOLING SYSTEM MODEL: IPC2U DRIES & PLUMBING FIXTU RUBBERMAID 7GAL WASTEBASKET FG295600BE16, BEIGE LARSEN'S MANUFACTURING CO. SEMI-RECESSED 2½", SS. VERTICAL DUO DOOR, #2409-6R LARSEN'S MANUFACTURING CO. 10 LB. MULTIPURPOSE CLASS A, B, C TYPE: FIRE EXTINGUISHER, MODEL MP10 SAFETY SIGNS FIRE EXTINGUISHER DO NOT BLOCK LABEL ITEM #A5030-AY - WIPMENT TATCO MODEL: TC057910 WIRELESS, BATTERY OPERATED - MOCKETT LONGHORN COAT HOOK CH11 MOCKETT LONGHORN COAT HOOK CH11 MOCKETT LONGHORN COAT HOOK CH11 MOCKETT LONGHORN COAT HOOK CH11	22" X 19.5" X 6.5" 16.625"H X 2"W X 9"D 12"H X 20.313"W X 15.625"D 31.63"H X 23.5"W X 23.38"D 12.35"H X 10.25"W X 12.1"D 17.25"H X 13"W X 14.66"D WRES 15"H X 10.25"W X 14.375"D R.O. DIM: 25" X 10½" X 4" 20"H X 7.75"W X 5"DIA	GENERAL CONTRACTOR	LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY NOTE: ORDER (1) 1875W FLAT PLUG EXTENSION CORD 1 FOOT, 15A 14AWG LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: FOH PANTRY IN WEALTH CENTER LOCATION: FOH PANTRY IN WEALTH CENTER LOCATION: MEETING ROOMS DOUBLE UP STUDS FOR REQUIRED CABINET DEPTH AS REQUIRED. LOCATE TOP OF CABINET 48" A.F.F. PROVIDE STANDARD BRACKET #546 NOTE: BRACKET SHOULD ONLY BE USED WHEN THE #601 CABINET IS NOT PROVIDED. SEE FIRE ALARM DRAWINGS COORDINATE EXACT LOCATION & SPECIFICATION W/ FIRE DEPARTMENT WIRELESS. INSTALL AT EXTERIOR TO BANKING LOBBY, TELLER AREA TO BREAK ROOM, SAFE DEPOSIT VAULT TO TELLER AREA.
401 402 403 404 407 410 F/ 602 603 607 M 801	PANTRY APPLIANCES PANTRY SINK PANTRY FAUCET UNDER COUNTER MICROWAVE UNDER COUNTER REFRIGERATOR COFFEE MAKER WATER COOLING SYSTEM ACILITIES ACCESSO TRASH CONTAINER RE & LIFE SAFETY FIRE EXTINGUISHER CABINET FIRE EXTINGUISHER DECAL— ARROW/DO NOT BLOCK FIRE ALARM BEACON LIGHT SCELLANEOUS EQ DOORBELL DOOR CHIME	MODEL: S-15960 MATERIAL: GUSSETED WAX PAPER QUANTITY: 500 PER CASE S & PLUMBING FIXTURES ELKAY LRADQ221965 FINISH: STAINLESS STEEL KOHLER SIMPLICE K-596 FINISH: VIBRANT STAINLESS GE APPLIANCES 950W MODEL: JES1145SHSS COLOR: STAINLESS STEEL SUMMIT APPLIANCE MODEL: SKU: AL55CSS COLOR: STAINLESS STEEL KEURIG MODEL: K1500 COFFEE MAKER SMALL BUSINESS BREWING SYSTEM ECOSTREAM WATER COOLING SYSTEM MODEL: IPC2U DRIES & PLUMBING FIXTU RUBBERMAID 7GAL WASTEBASKET FG295600BE16, BEIGE LARSEN'S MANUFACTURING CO. 10 LB. MULTIPURPOSE CLASS A, B, C TYPE: FIRE EXTINGUISHER, MODEL MP10 SAFETY SIGNS FIRE EXTINGUISHER DO NOT BLOCK LABEL ITEM #A5030—AY - WIPMENT TATCO MODEL: TCO57910 WIRELESS, BATTERY OPERATED - MOCKETT LONGHORN COAT HOOK	22" X 19.5" X 6.5" 16.625"H X 2"W X 9"D 12"H X 20.313"W X 15.625"D 31.63"H X 23.5"W X 23.38"D 12.35"H X 10.25"W X 12.1"D 17.25"H X 13"W X 14.66"D URES 15"H X 10.25"W X 14.375"D R.O. DIM: 25" X 10½" X 4" 20"H X 7.75"W X 5"DIA 18"H X 4"W - 5.281"W, 1.969" BASE DIAMETER,	GENERAL CONTRACTOR GENERAL CONTRACTOR	LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER LOCATION: PANTRIES IN ADVISORY & WEALTH CENTER INSTALLED BELOW COUNTER LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: BOH ADVISORY PANTRY NOTE: ORDER (1) 1875W FLAT PLUG EXTENSION CORD 1 FOOT, 15A 14AWG LOCATION: FOH & BOH PANTRIES IN WEALTH CENTER LOCATION: FOH PANTRY IN WEALTH CENTER LOCATION: FOH PANTRY IN WEALTH CENTER LOCATION: MEETING ROOMS DOUBLE UP STUDS FOR REQUIRED CABINET DEPTH AS REQUIRED. LOCATE TOP OF CABINET 48" A.F.F. PROVIDE STANDARD BRACKET #546 NOTE: BRACKET SHOULD ONLY BE USED WHEN THE #601 CABINET IS NOT PROVIDED. SEE FIRE ALARM DRAWINGS COORDINATE EXACT LOCATION & SPECIFICATION W/ FIRE DEPARTMENT WIRELESS. INSTALL AT EXTERIOR TO BANKING LOBBY, TELLER AREA TO BREAK ROOM, SAFE DEPOSIT VAULT TO TELLER AREA. REVIEW EQUIPMENT #801 FOR DETAILS. LOCATION: RESTROOMS



RISING SUN MILLS | 188 VALLEY STREET | PROVIDENCE, RI | 02909 VOICE 401.404.8310 FAX 401.404.8311 WWW.BISBANO.COM

XX Citizens

KENDALL SQUARE

610 Main Street Cambridge, MA 02139

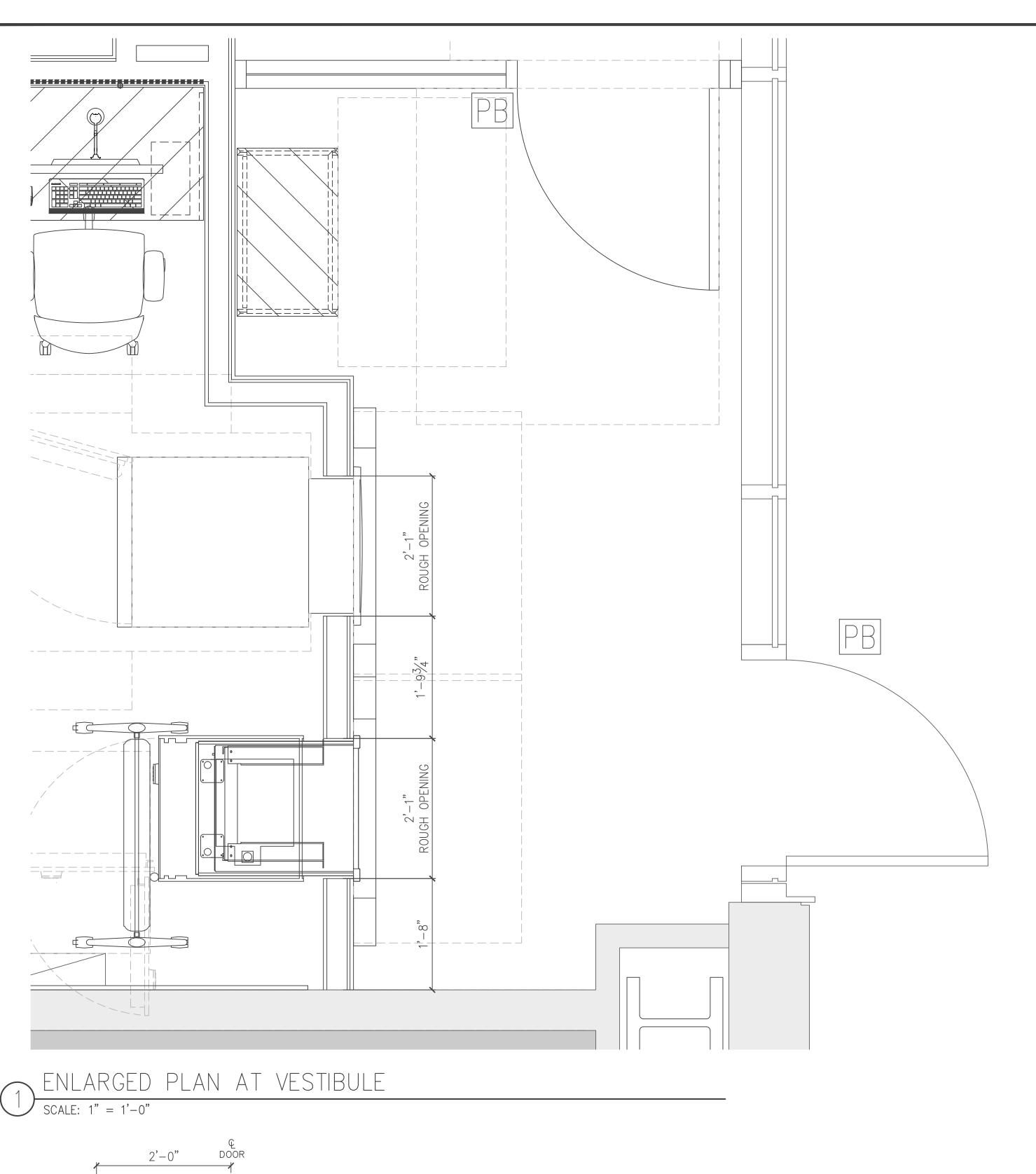
EQUIPMENT SCHEDULE

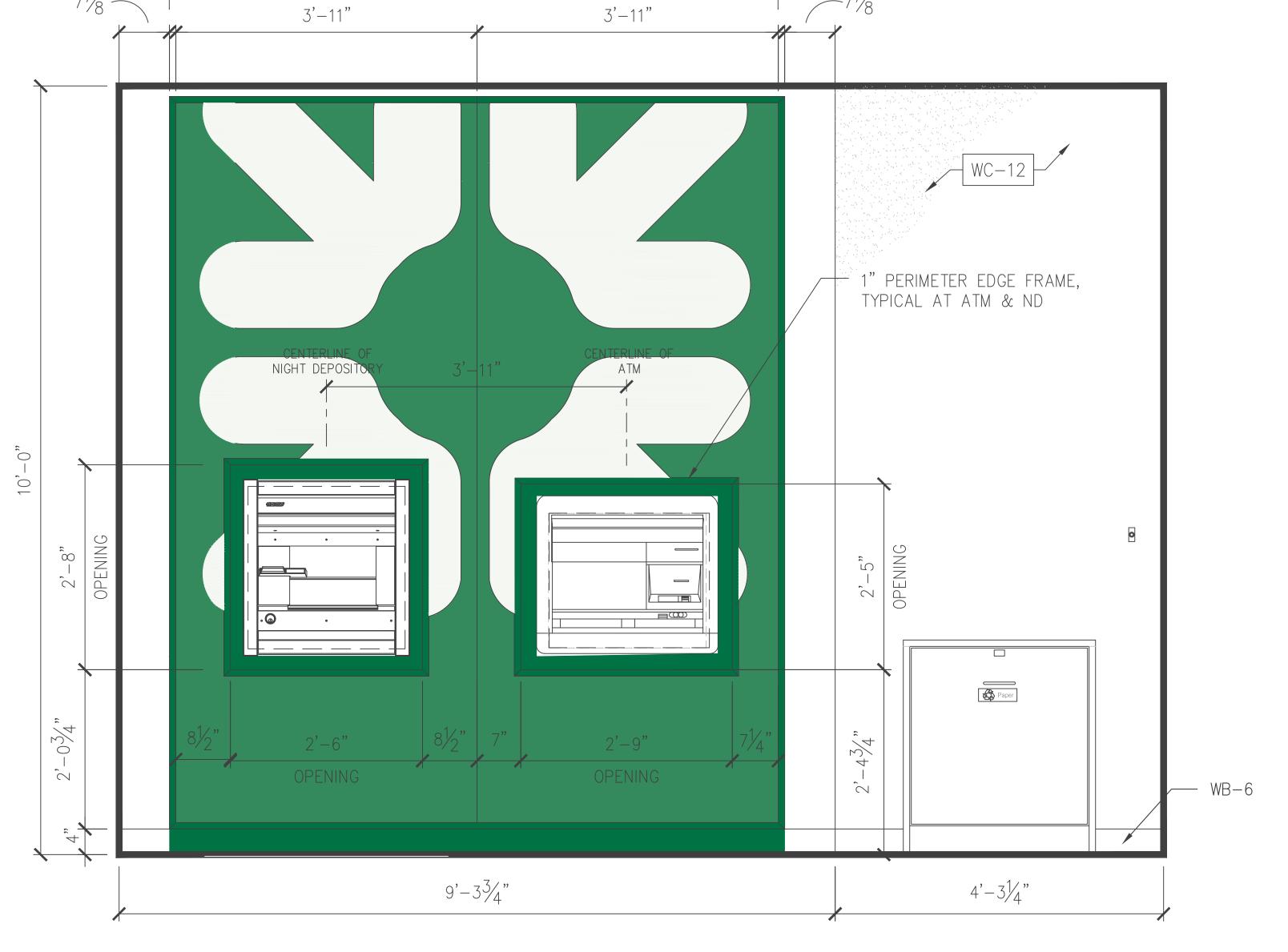
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CONSTRUCTION DOCUMENTS _
ISSUE DATE:
03/31/2022
DRAWN BY:

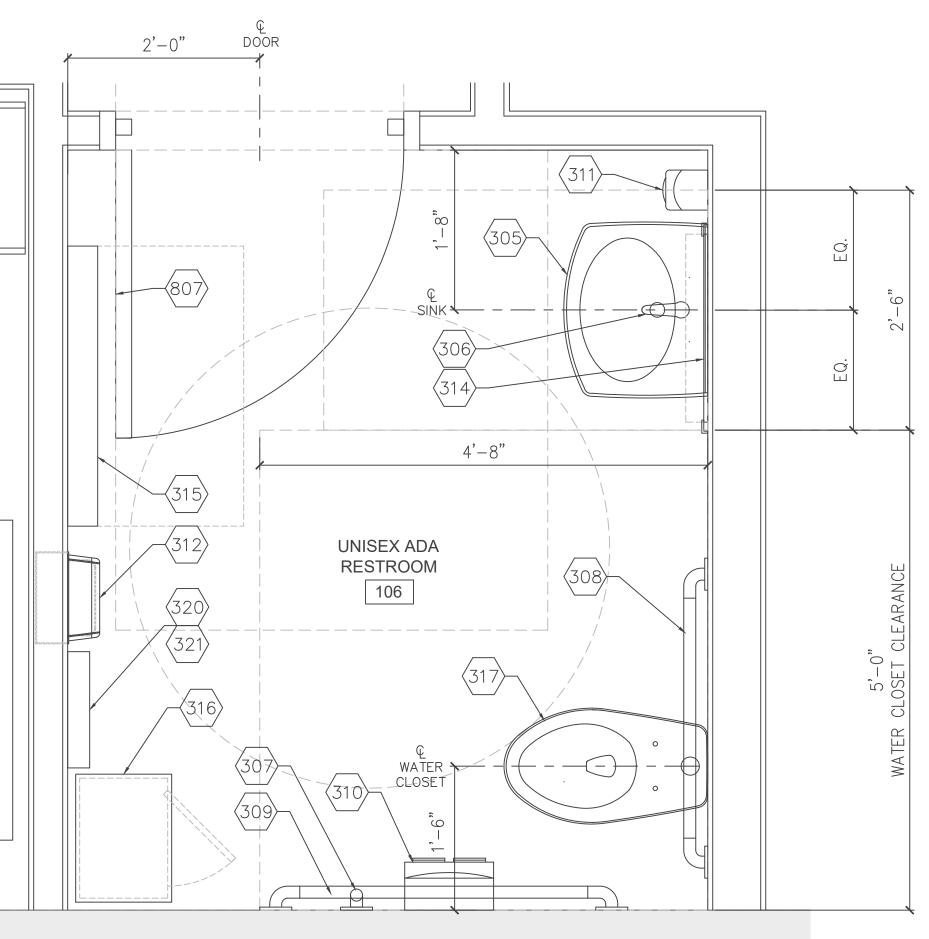


1/4" = 1'-0"

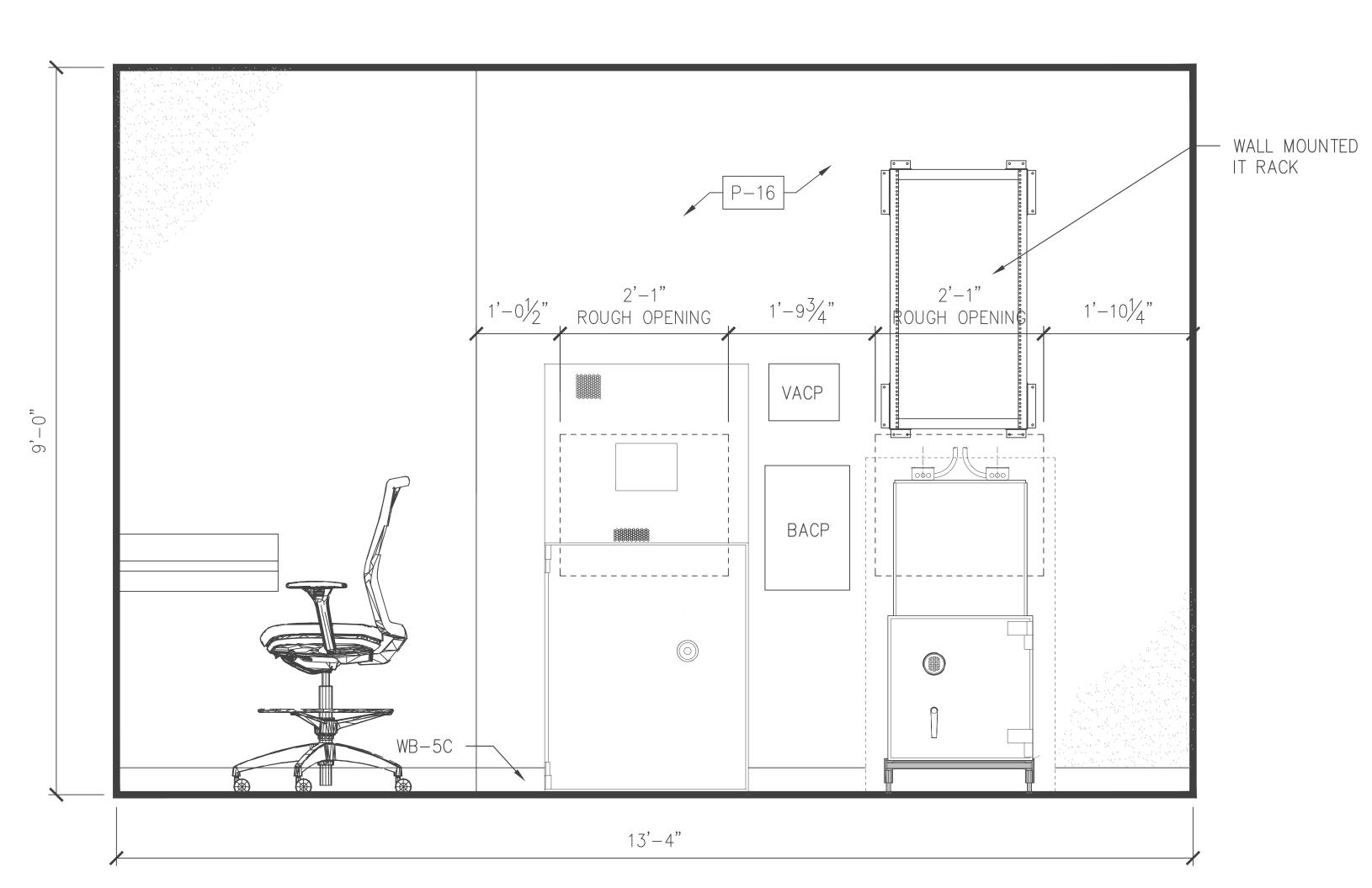
B+A PROJECT NO: 2021.56







ENLARGED ELEVATION AT GLOW WALL



REFER TO EQUIPMENT SCHEDULE ON A07.02 FOR RESTROOM ACCESSORIES SPECIFICATIONS ASSOCIATED WITH TAGS.

2. REFER TO STANDARD COMPONENT MOUNTING HEIGHTS ON A00.00 FOR EQUIPMENT MOUNTING LOCATIONS.

ENLARGED PLAN AT ADA RESTROOM $\sqrt{\text{SCALE: 1"} = 1'-0"}$

ENLARGED ELEVATION AT ATM ROOM + SCALE: 1" = 1'-0"

INTERIOR ARCHITECTURE SPACE PLANNING FACILITIES MANAGEMENT PROJECT MANAGEMENT

BISBANO + ASSOCIATES, INC.

RISING SUN MILLS | 188 VALLEY STREET | PROVIDENCE, RI | 02909

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KENDALL SQUARE 610 Main Street Cambridge, MA 02139

ENLARGED PLANS

CONSTRUCTION DOCUMENTS _ ISSUE DATE: DRAWN BY:





EXTERIOR ELEVATION — MAIN STREET SIDE



EXTERIOR ELEVATION - SIDE

**Citizens

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KENDALL SQUARE
610 Main Street
Cambridge, MA
02139

EXTERIOR ELEVATIONS

ISSUE TYPE:
CONSTRUCTION DOCUMENTS
ISSUE DATE:
03/31/2022

DRAWN BY:
CP

SCALE: AS NOTED B+A PROJECT NO: 2021.56

ARCHITECTURE

SPACE PLANNING

INTERIOR ARCHITECTURE

FACILITIES MANAGEMENT
PROJECT MANAGEMENT

SK-3







KENDALL SQUARE

610 Main Street Cambridge, MA 02139

INTERIOR ELEVATIONS

ISSUE TYPE:
CONSTRUCTION DOCUMENTS

ISSUE DATE:
03/31/2022

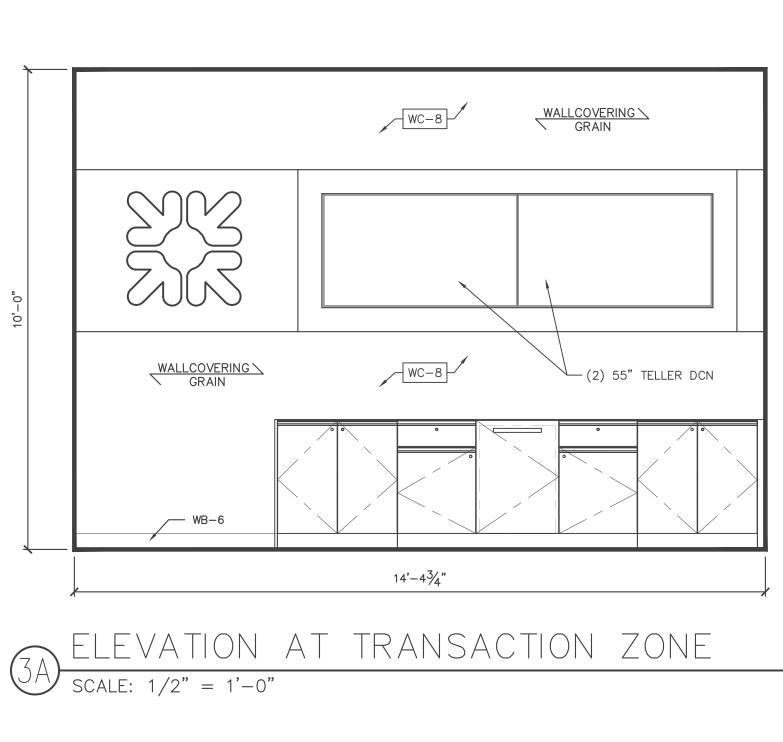
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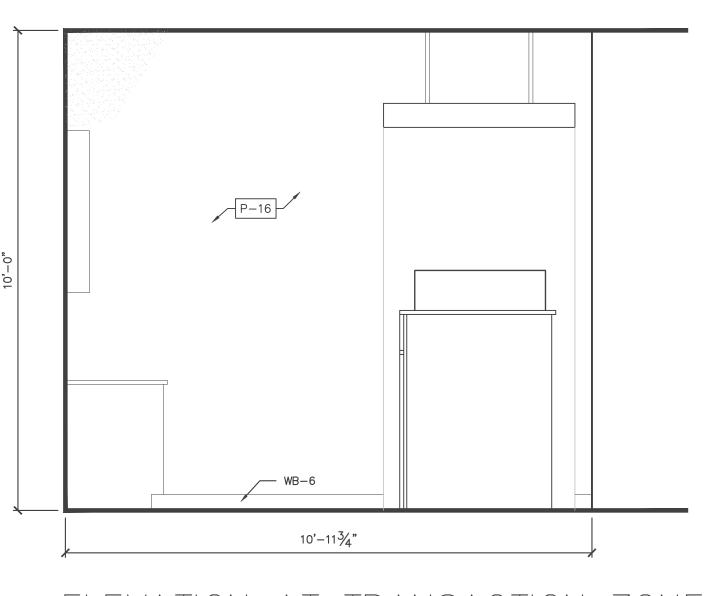


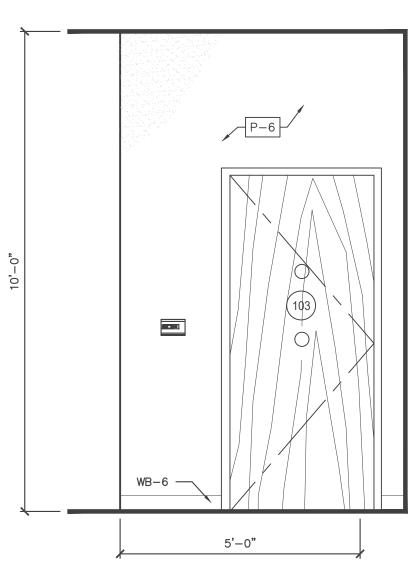
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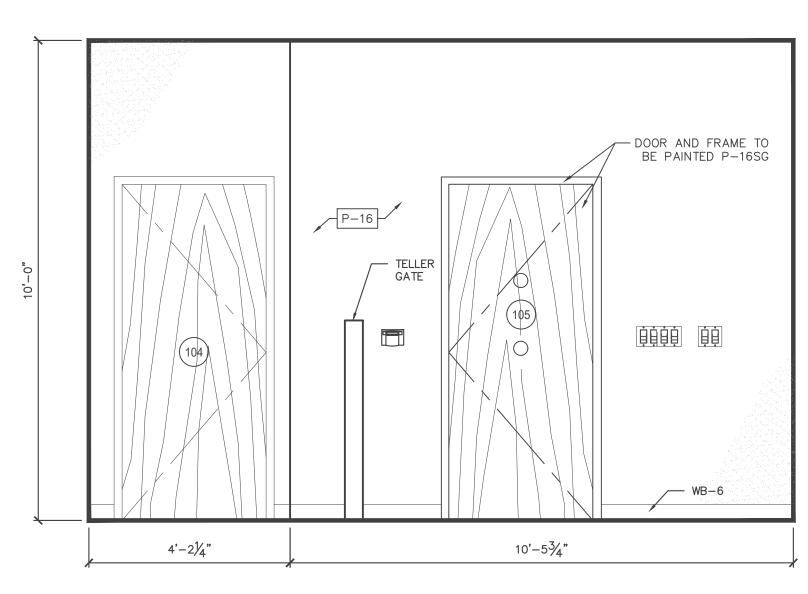
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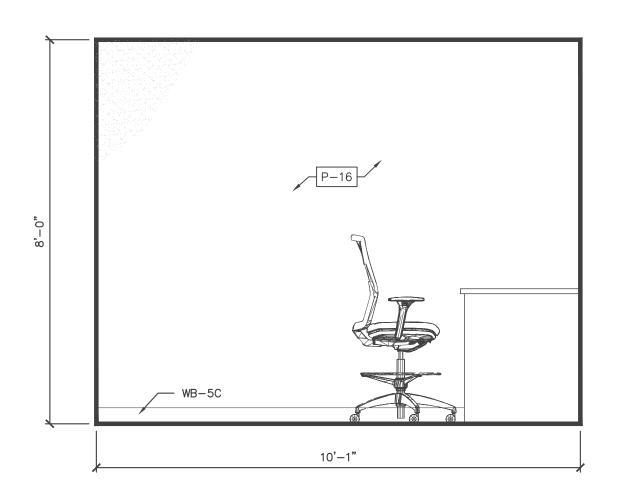
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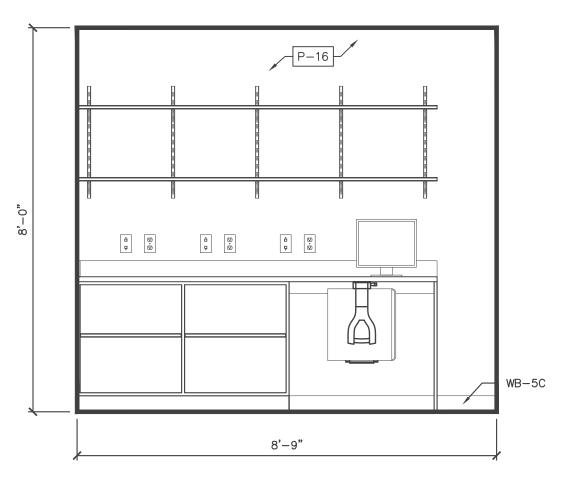


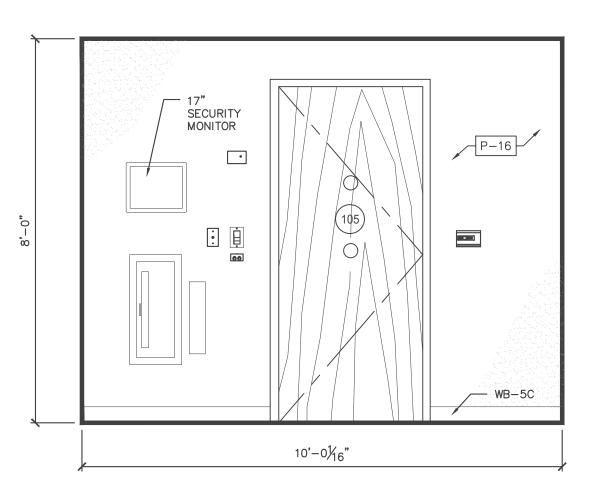


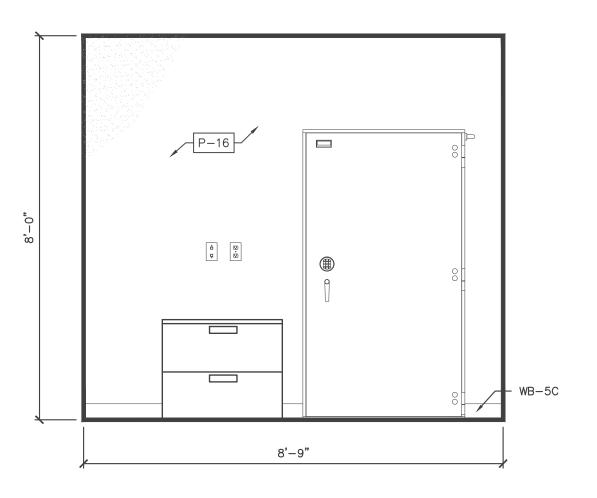


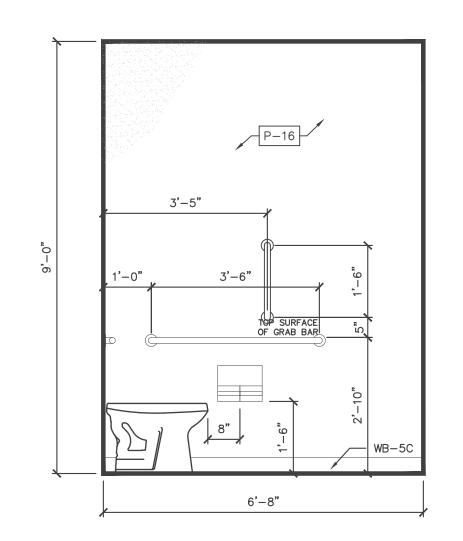


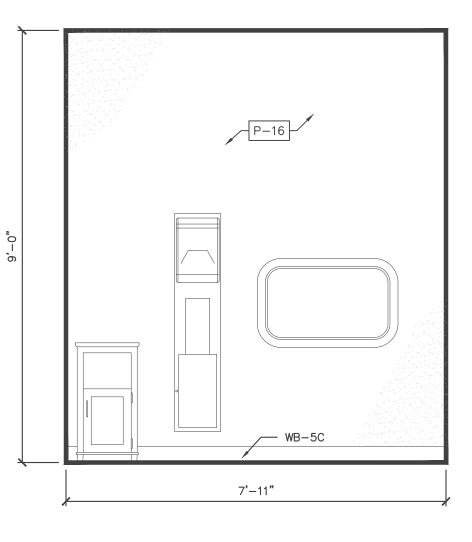


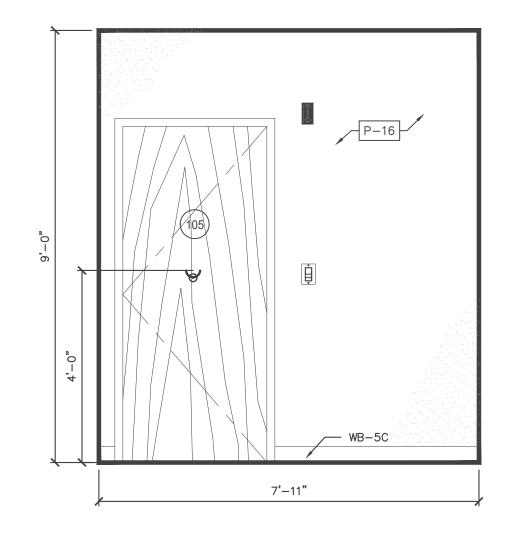


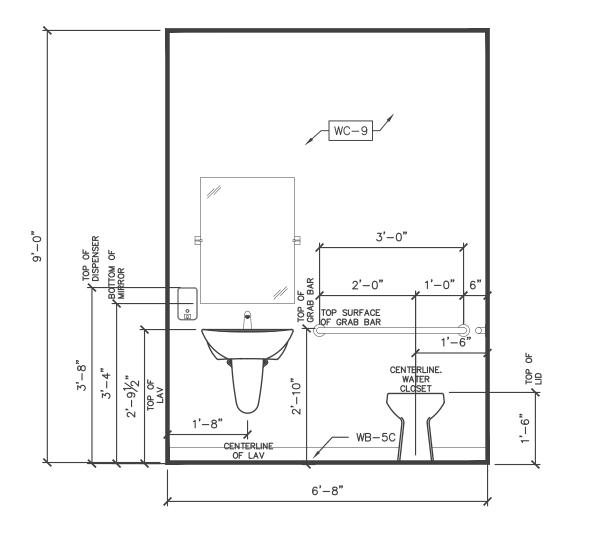














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INTERIOR ELEVATIONS





LEVATION AT MEDIUM OFFICE 109

ARCHITECTURE

SPACE PLANNING

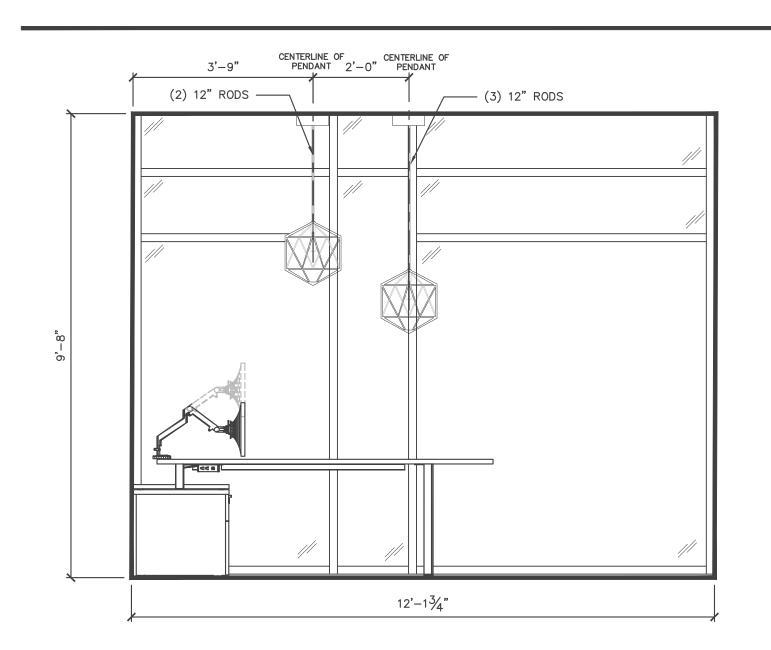
INTERIOR ARCHITECTURE

FACILITIES MANAGEMENT PROJECT MANAGEMENT

KENDALL SQUARE

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02139

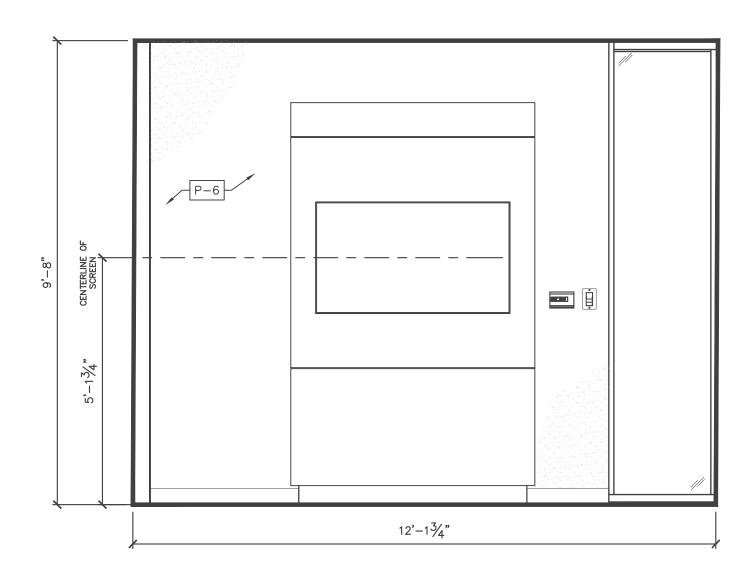


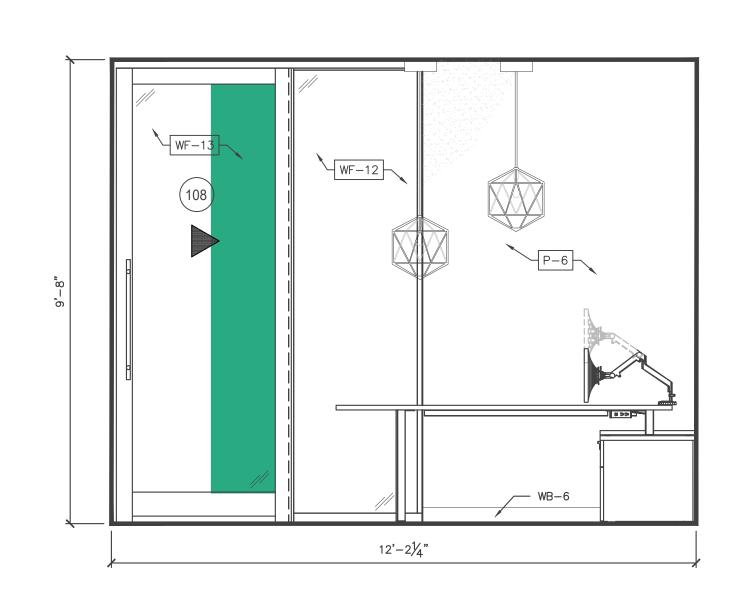
ELEVATION AT LARGE OFFICE 110

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

ELEVATION AT LARGE OFFICE 110

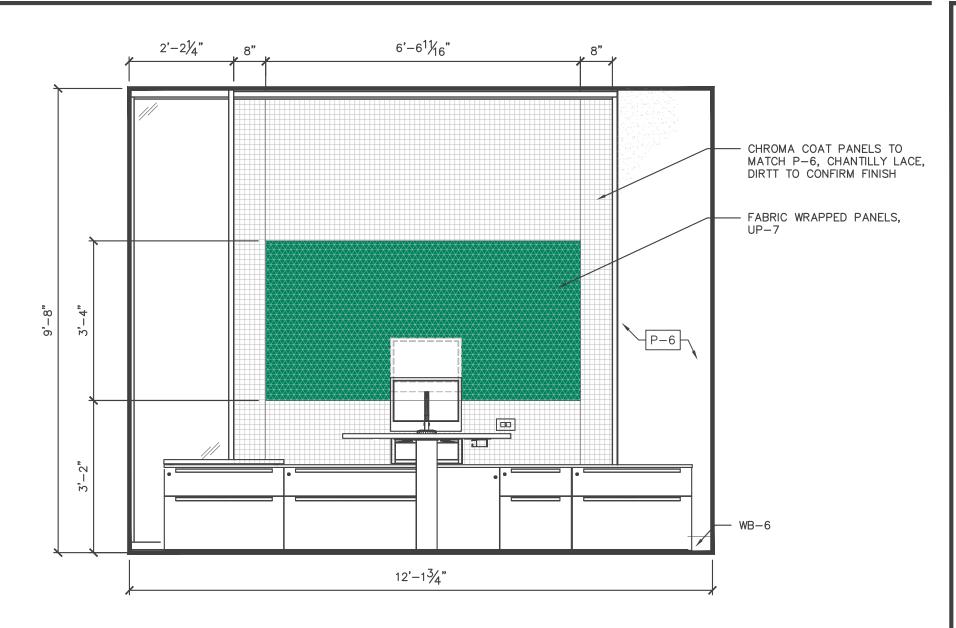
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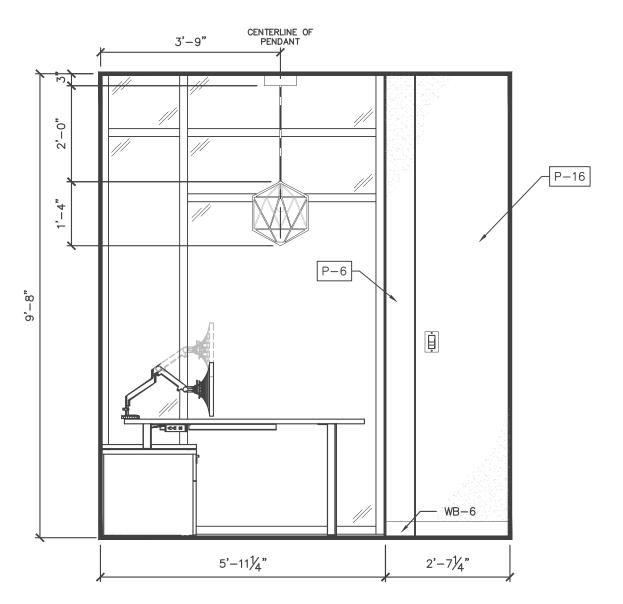
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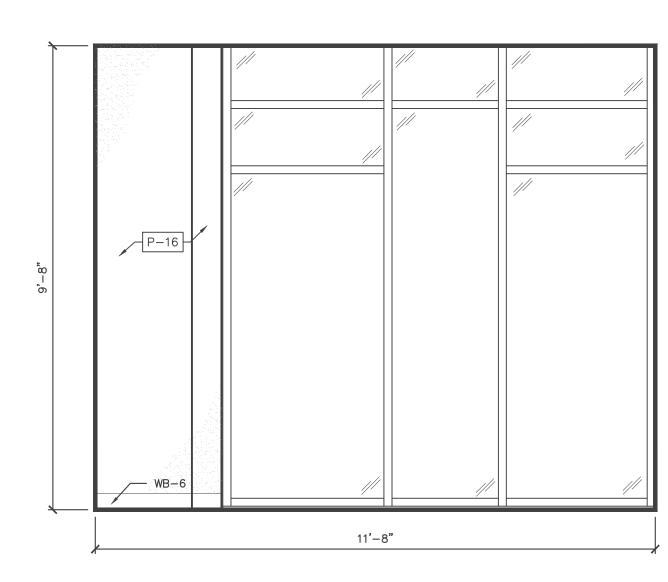
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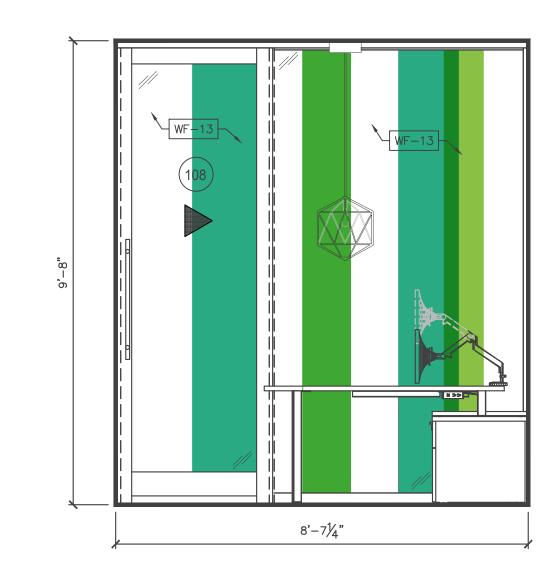


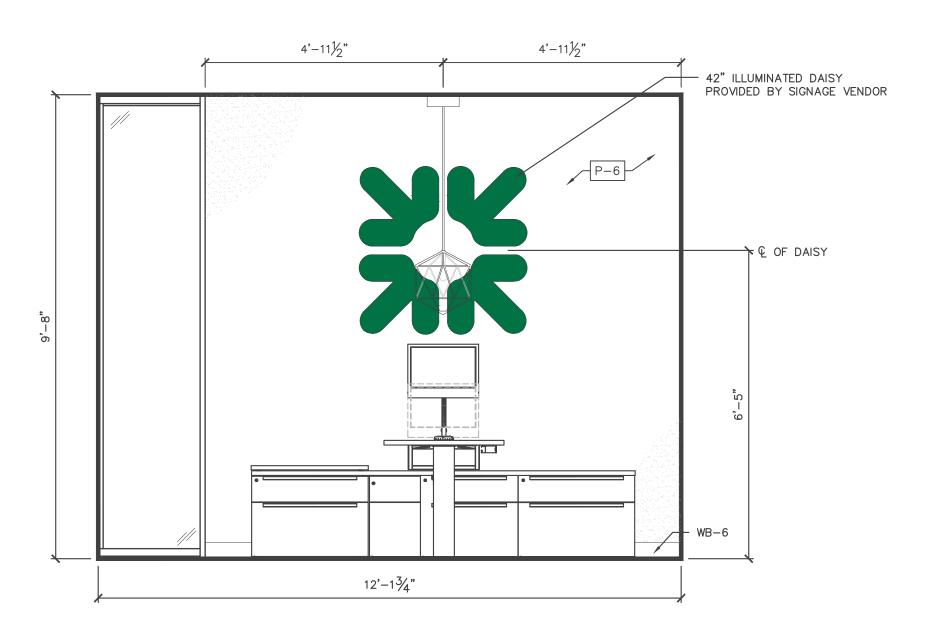
ELEVATION AT LARGE OFFICE 110

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









ELEVATION AT SMALL OFFICE 111

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

ELEVATION AT SMALL OFFICE 111

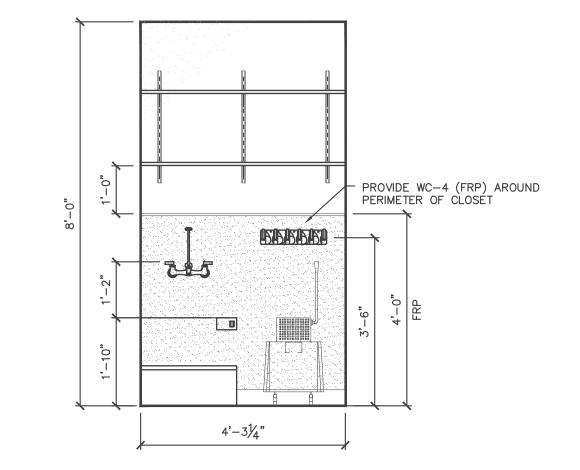
SCALE: 1/2" = 1'-0"

ELEVATION AT SMALL OFFICE 111

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

ELEVATION AT SMALL OFFICE 111

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



ELEVATION AT JANITOR'S CLOSET



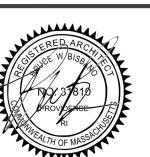
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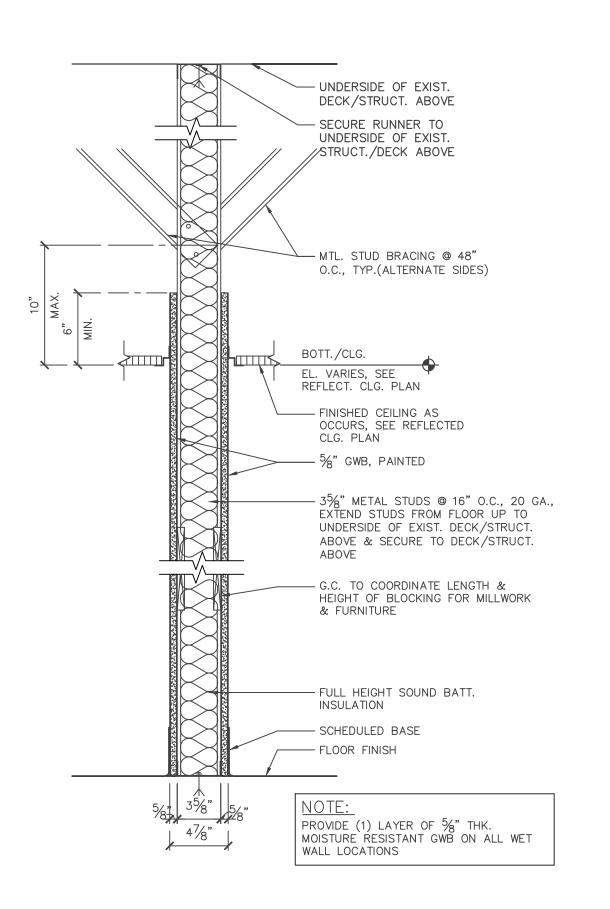
XX Citizens

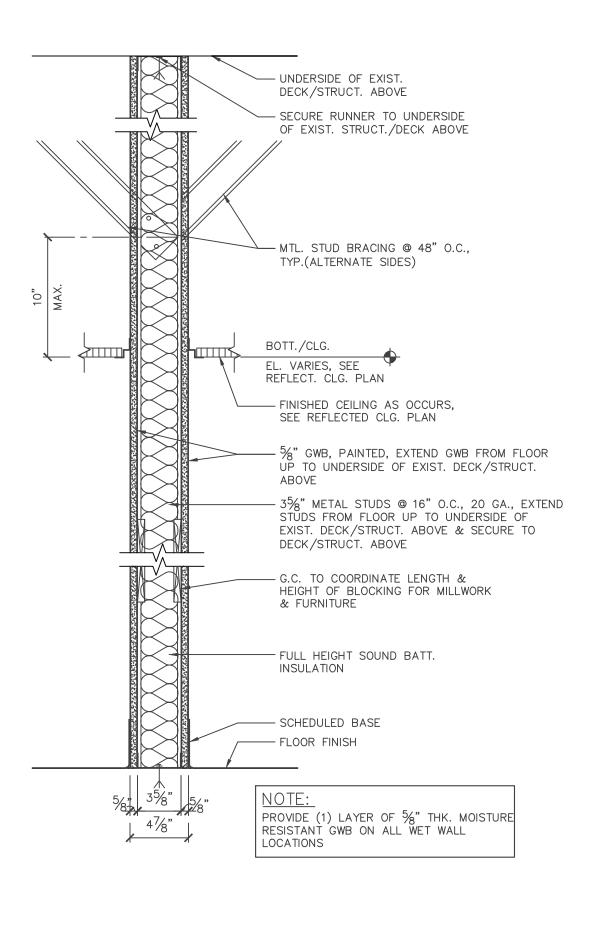
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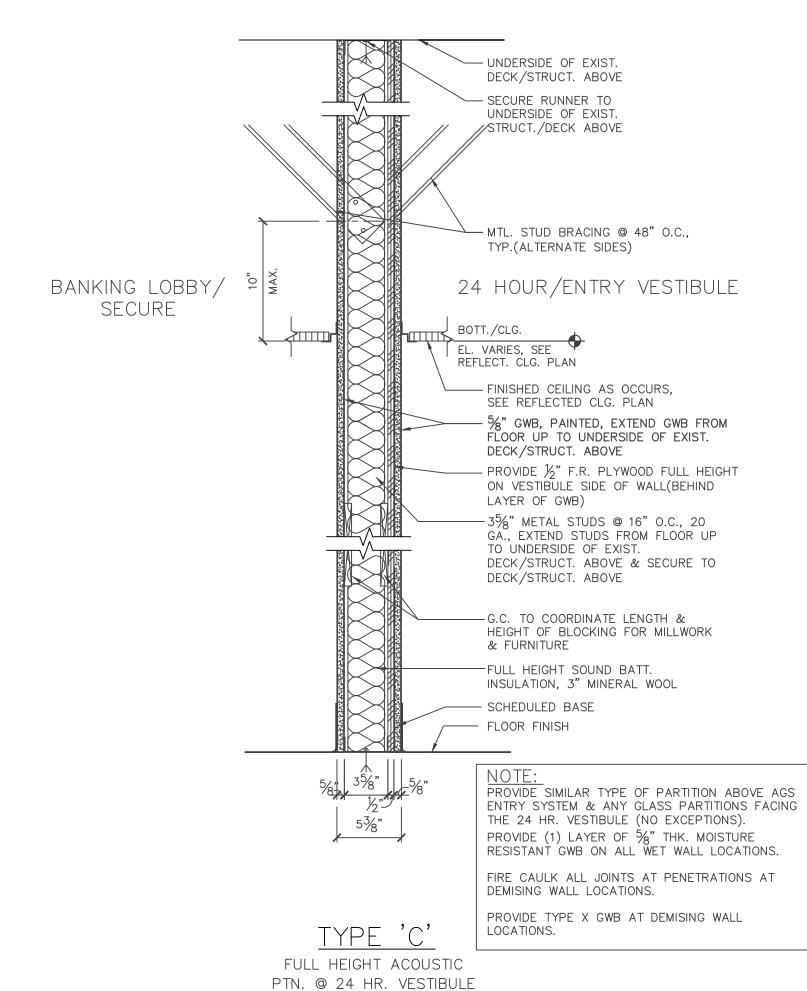
INTERIOR ELEVATIONS





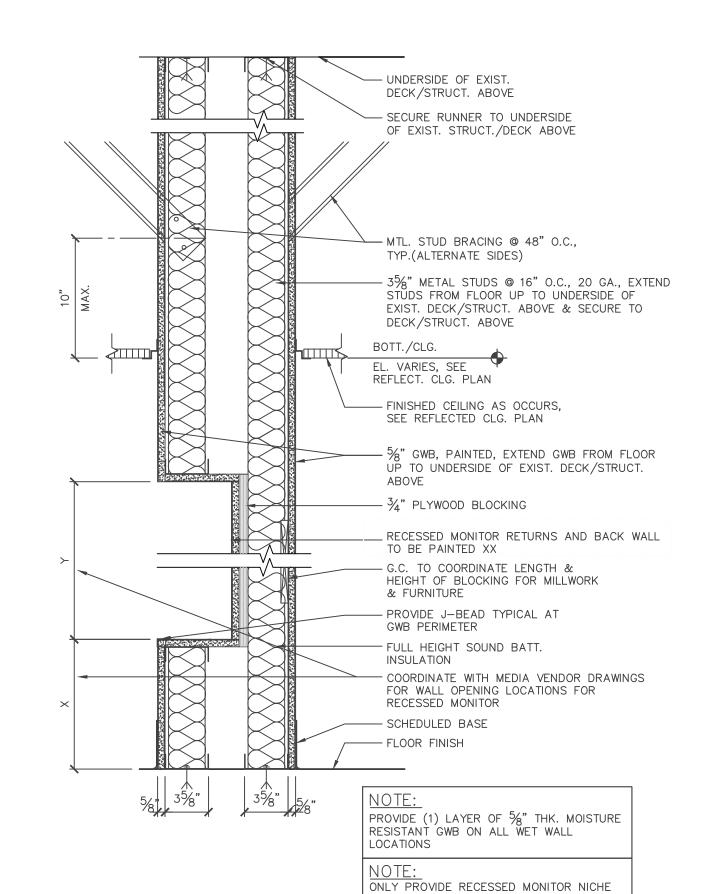


FULL HEIGHT NON-RATED ACOUSTIC PTN.



BASED ON UL U404 @ DEMISING WALLS

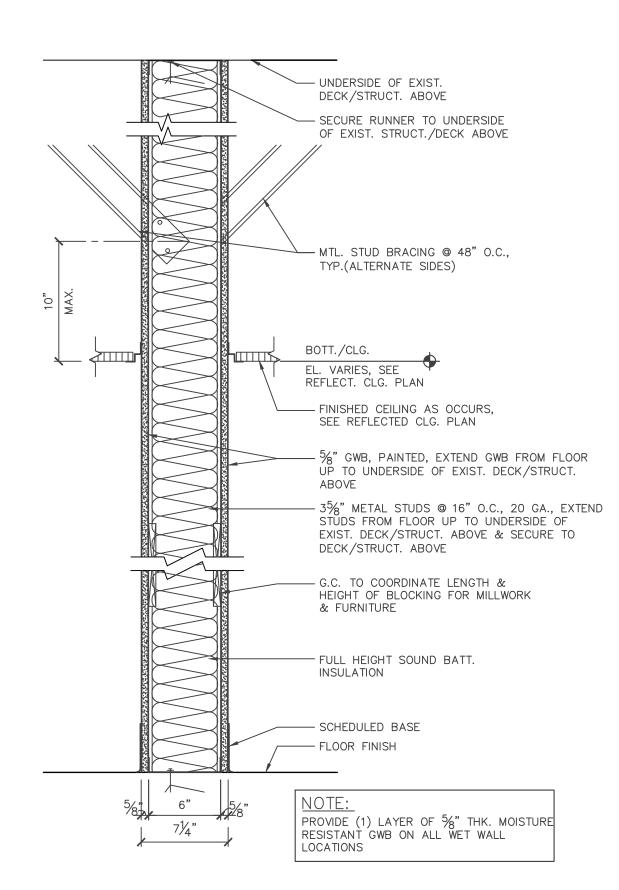
& DEMISING WALL LOCATIONS



AND COMPONENTS WHERE INDICATED ON

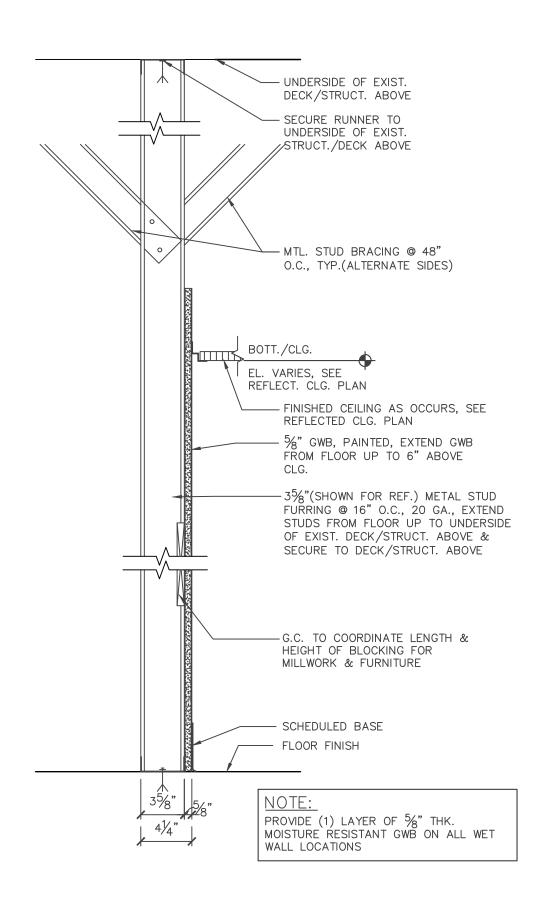
PLANS AND ELEVATIONS.

TYPE 'D' FULL HEIGHT NON-RATED ACOUSTIC PTN. USED AT PLUMBING WALLS AND FULLY RECESSED MONITOR LOCATIONS

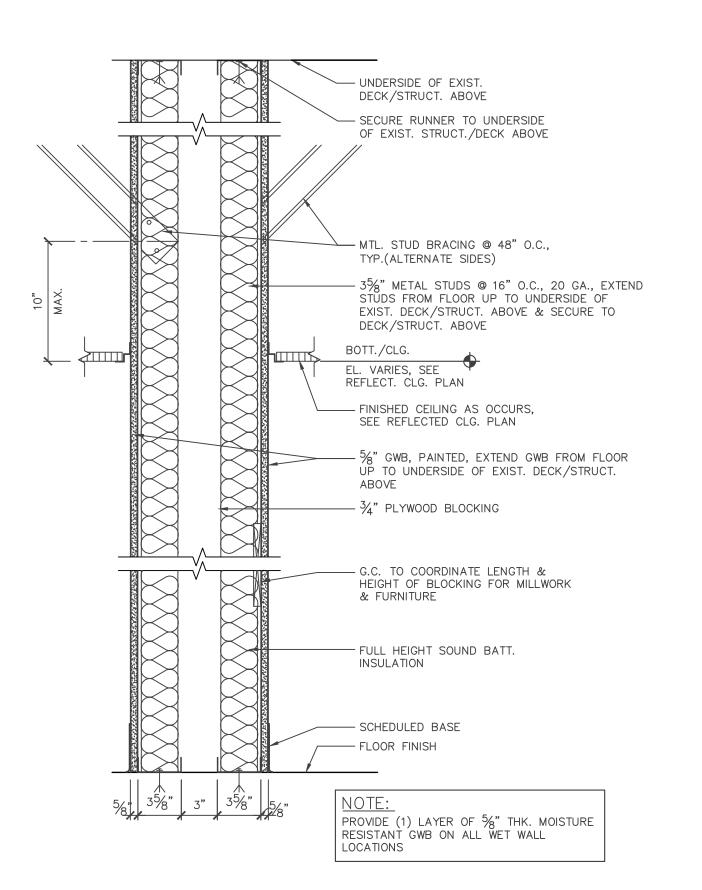


TYPE 'E' FULL HEIGHT NON-RATED ACOUSTIC PTN.

PARTITION TYPES SCALE: $1\frac{1}{2}$ " = 1'-0"



FURRED-OUT PARTITIONS •USE 15/8" STUDS @ 'F1' WALL •USE 2½" STUDS @ 'F2' WALL •USE 35/8" STUDS @ 'F3' WALL



TYPE 'G' FULL HEIGHT NON-RATED ACOUSTIC PTN. USED AT PLUMBING WALLS AND FULLY RECESSED MONITOR LOCATIONS



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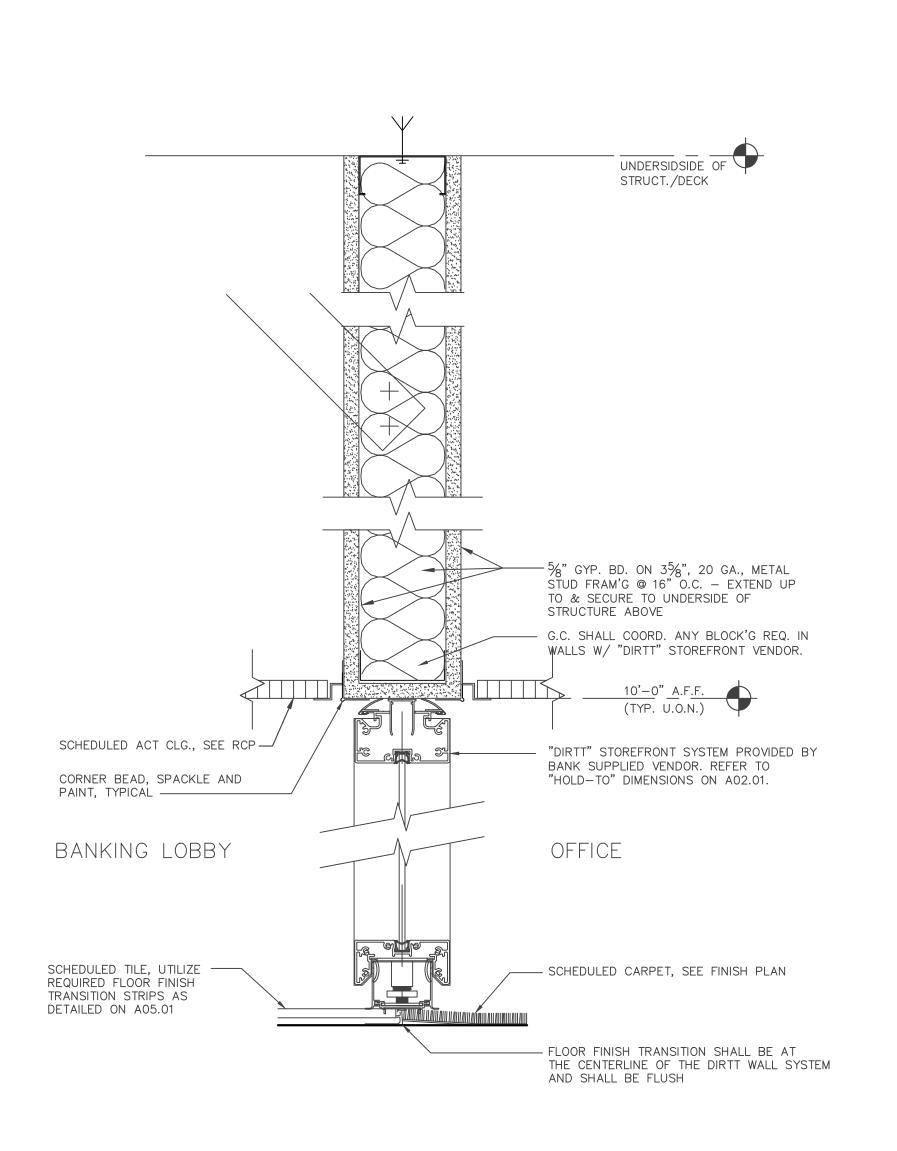
KENDALL SQAURE

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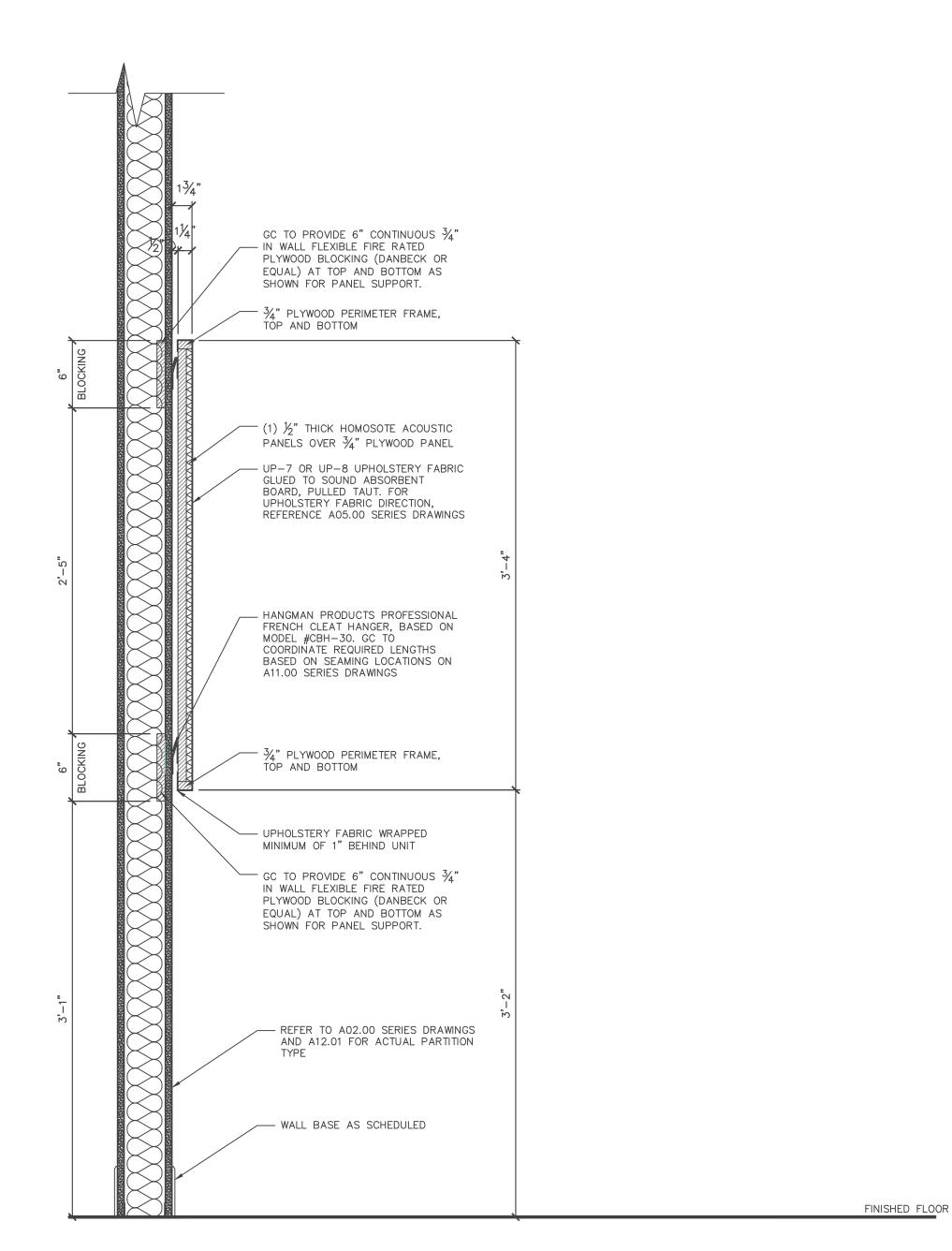
STANDARD PARTITION TYPES

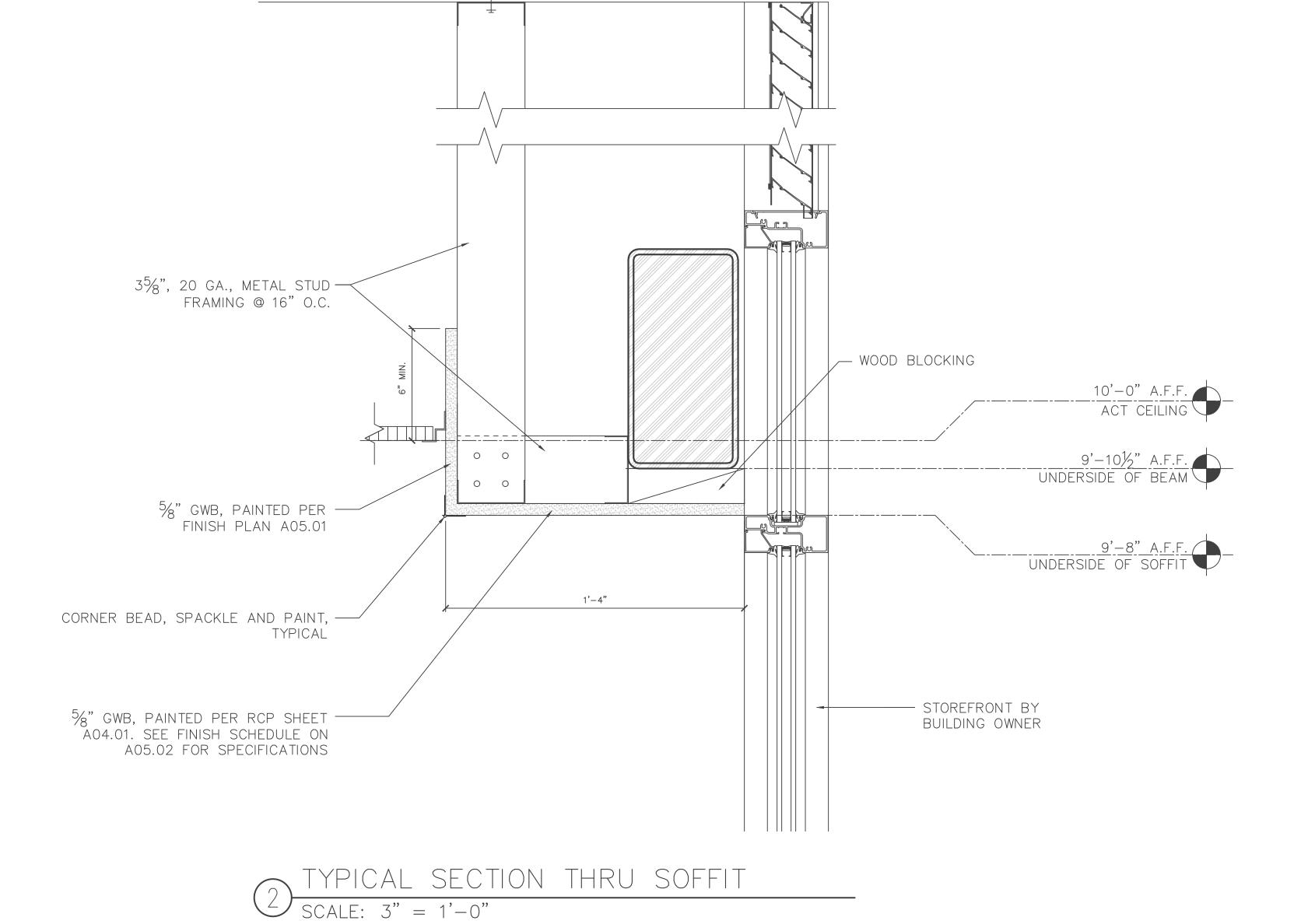
ISSUE TYPE: CONSTRUCTION DOCUMENTS -





TYPICAL SECTION THRU "DIRTT" WALL scale: 3" = 1'-0"





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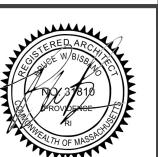
XX Citizens

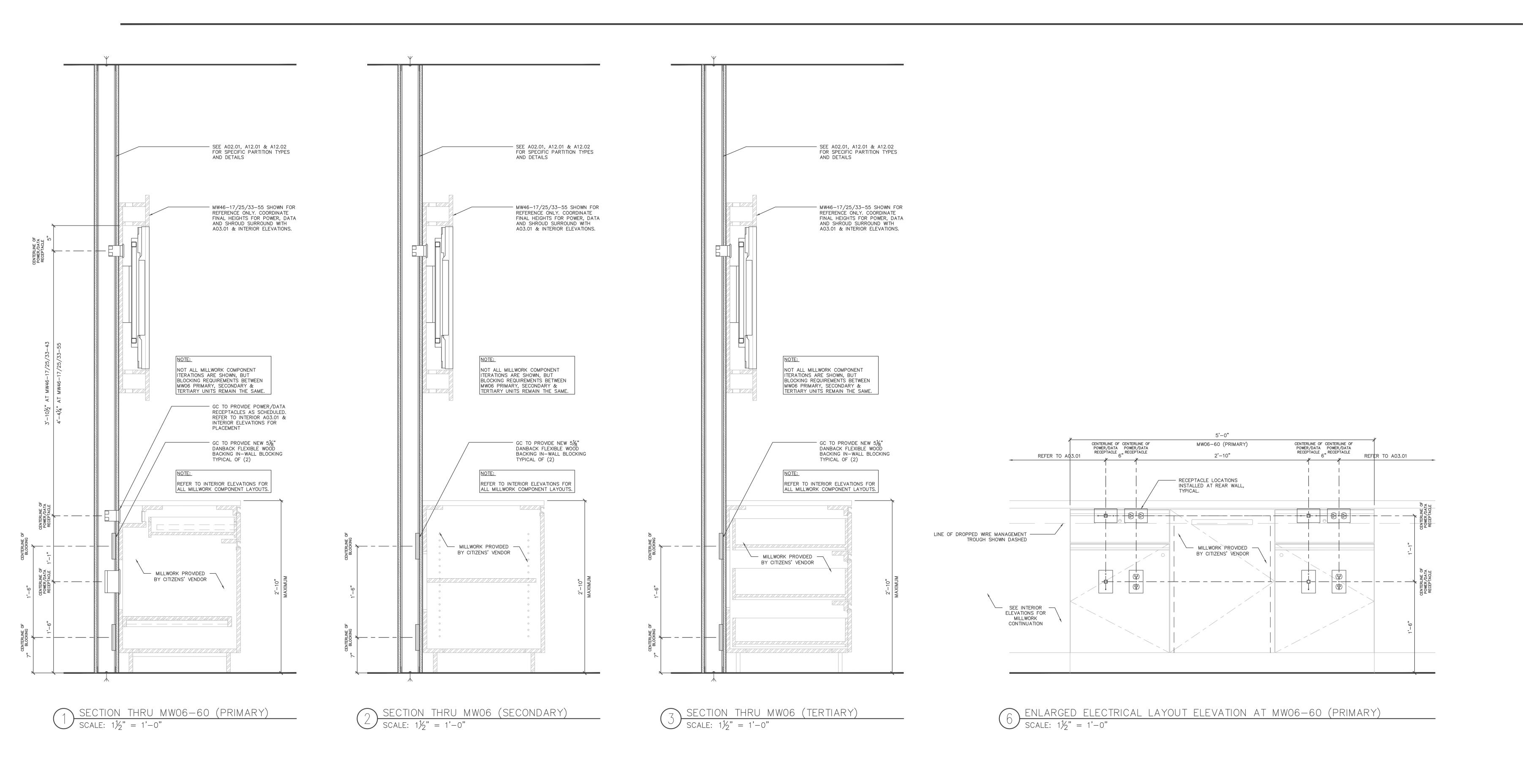
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SPECIALTY PARTITION DETAILS

ISSUE TYPE: REVISED: CONSTRUCTION DOCUMENTS -







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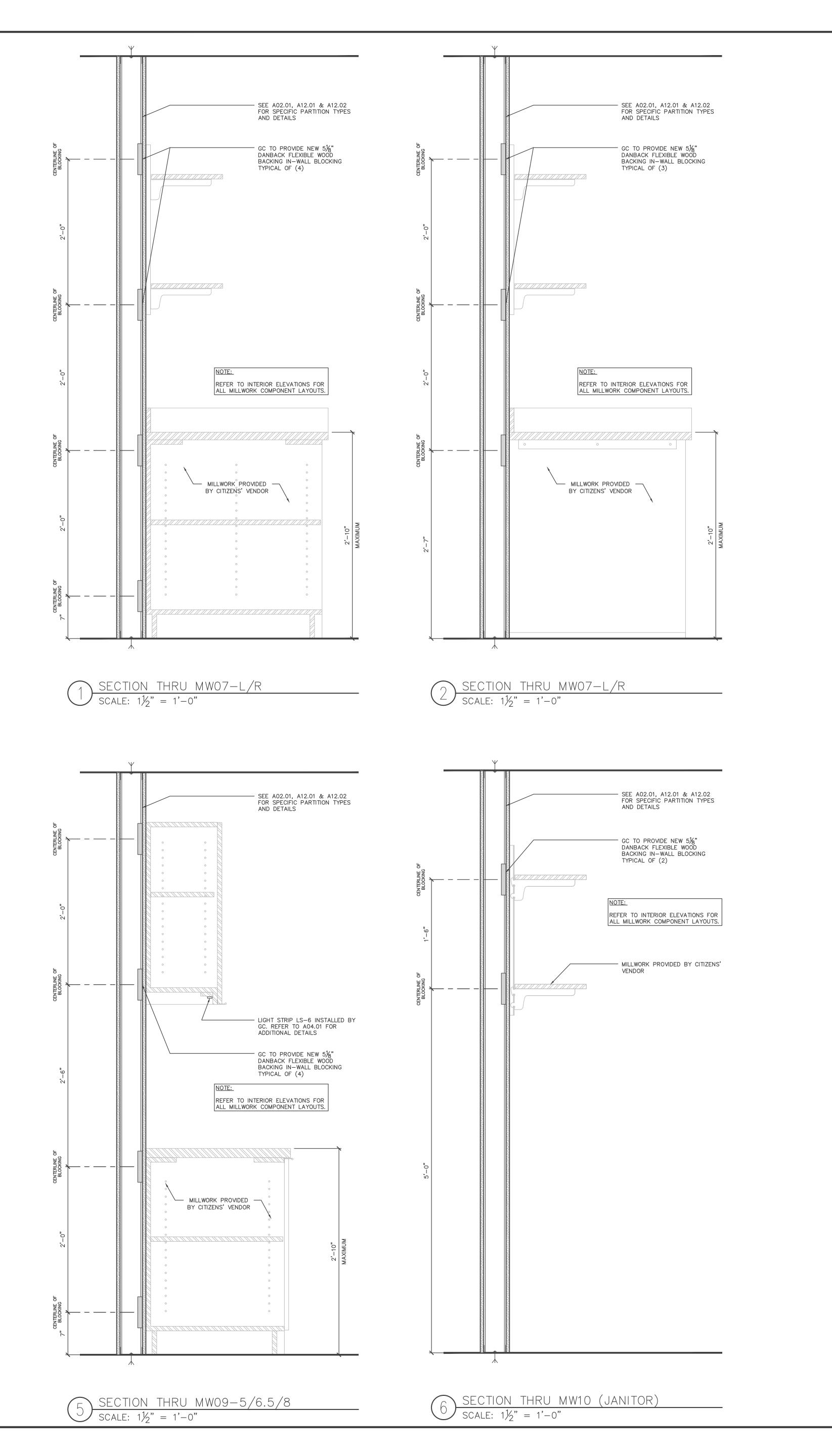
MILLWORK COORDINATION DETAILS (MW06)

ISSUE TYPE: REVI CONSTRUCTION DOCUMENTS – ISSUE DATE: 03/31/2022



B+A PROJECT NO: 2021.56

A12.03





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MILLWORK COORDINATION DETAILS (MW07 - MW14)

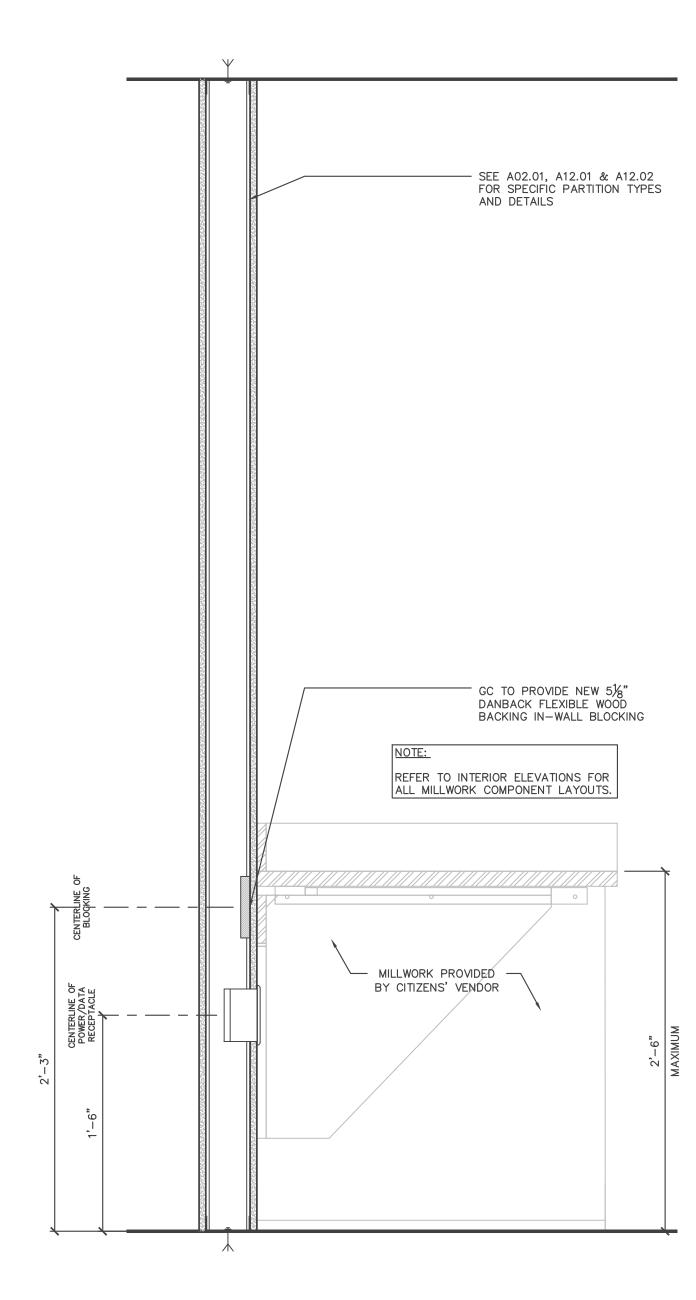
ISSUE TYPE:
CONSTRUCTION DOCUMENTS

ISSUE DATE:
03/31/2022

DRAWN BY:
CP



SCALE: AS NOTED B+A PROJECT NO: 2021.56



SECTION THRU MW47

SCALE: $1\frac{1}{2}$ " = 1'-0"



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MILLWORK COORDINATION DETAILS (MW15M, MW47, MW48-RC)

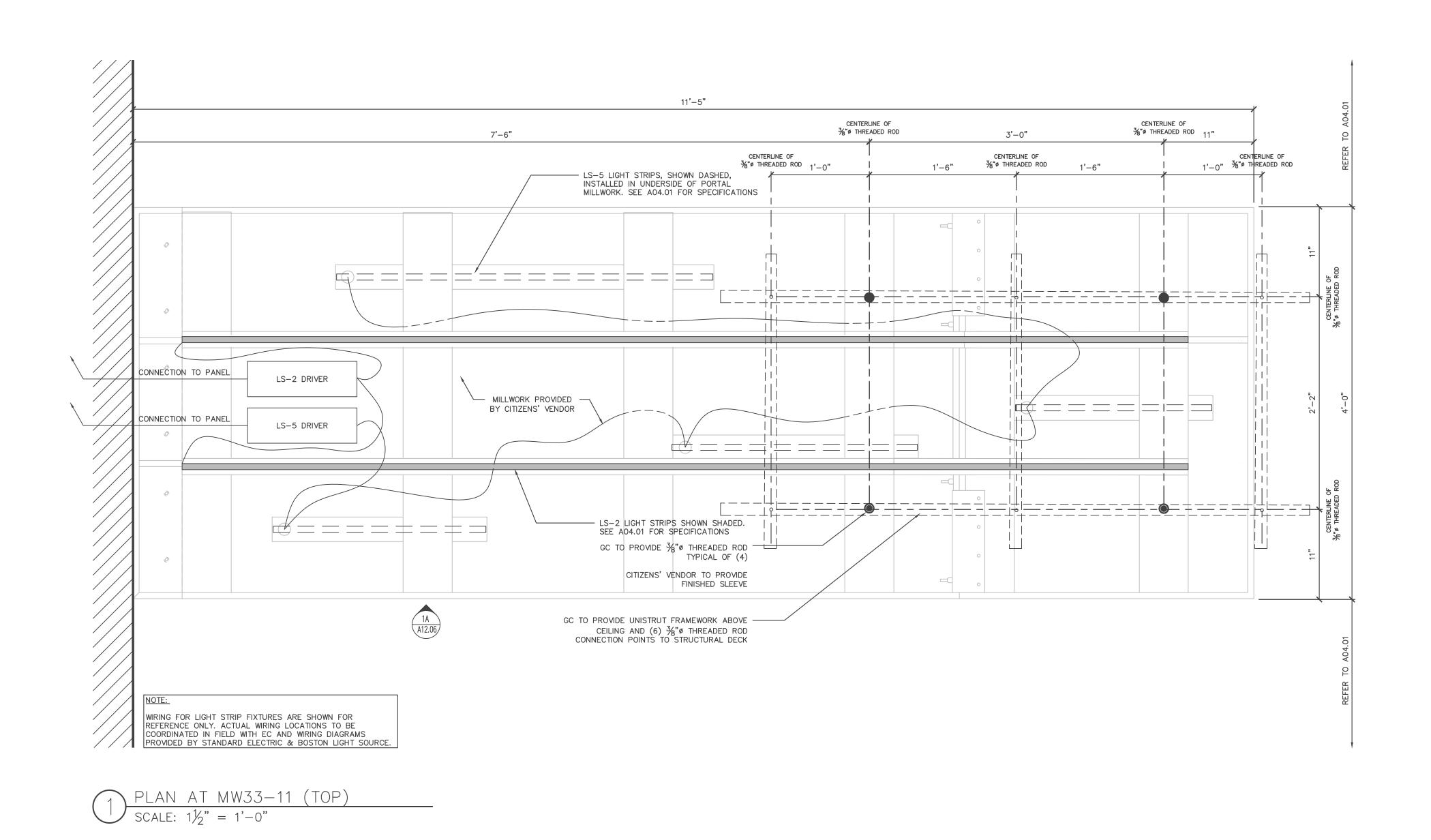
ISSUE TYPE:
CONSTRUCTION DOCUMENTS

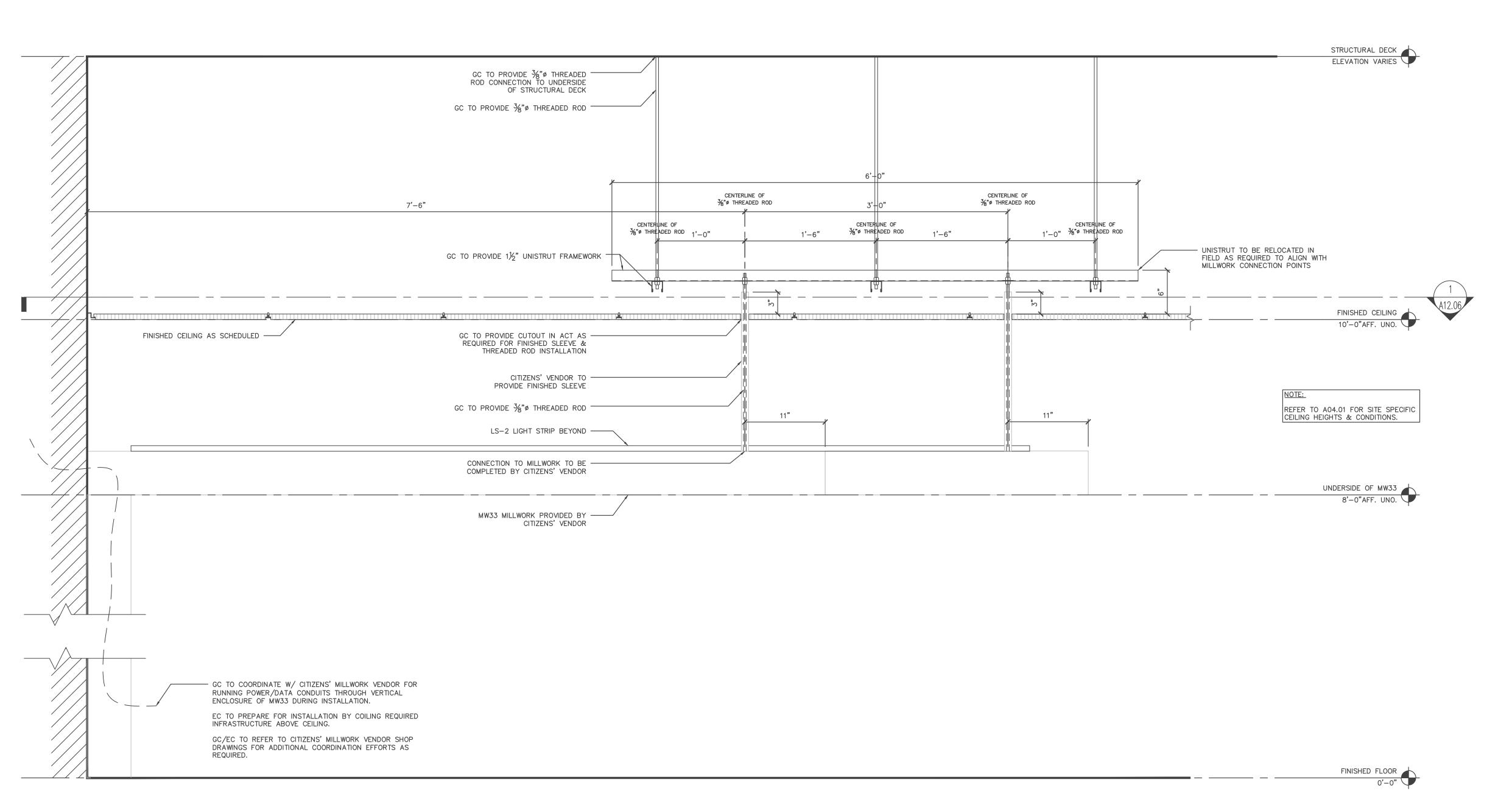
ISSUE DATE:
03/31/2022

DRAWN BY:
CP



B+A PROJECT NO: 2021.56







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MILLWORK COORDINATION DETAILS (MW33-11)

AS NOTED

B+A PROJECT NO:

ISSUE TYPE: RECONSTRUCTION DOCUMENTS -DRAWN BY:



 $\overbrace{100}$ ELEVATION AT MW33-11

PLUMBING SYMBOLS LIST SANITARY SEWER (UNDERFLOOR) EXISTING SANITARY SEWER (UNDERFLOOR) _____ COLD WATER PIPING HOT WATER PIPING ____ ____ HOT WATER RETURN PIPING P-TRAP $-\!\!\!-\!\!\!\!-\!\!\!\!-\!\!\!\!\!-$ PIPE DROP

PLUMBING ABBREVIATIONS

PLUGGED OUTLET/CLEANOUT

POINT OF CONNECTION

CO	CLEANOUT
CW	COLD WATER
HW	HOT WATER
HWR	HOT WATER RETURN
SAN	SANITARY
V	VENT
W	WASTE
LAV	LAVATORY
WC	WATER CLOSET
TYP.	TYPICAL
DN	DOWN
SK	SINK
AFF	ABOVE FINISH FLOOR
FD	FLOOR DRAIN
SQ. FT.	SQUARE FEET
WH	WATER HEATER
N.I.C.	NOT IN SCOPE

PLUMBING DRAWING LIST

POO.OO PLUMBING SYMBOLS. ABBREVIATIONS.NOTES & SPECIFICATIONS

P01.01 PLUMBING WATER PIPING PLAN

P01.02 PLUMBING SANITARY PIPING PLAN

─

P02.01 PLUMBING DETAILS P02.02 PLUMBING SCHEDULE AND RISER

BUILDING DEPARTMENT PLUMBING NOTES

ALL PLUMBING SYSTEMS (SANITARY, WASTE, VENT WATER DISTRIBUTION PIPING SYSTEMS) AND ASSOCIATED EQUIPMENT SHALL BE INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF 248 CMR UNIFORM STATE PLUMBING CODE

- 1. INSTALLATION OF UNDERGROUND PIPING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 248 CMR 10.05 AND 10.06
- 2. PROTECTION OF PIPING AND PLUMBING SYSTEM COMPONENTS AS PER 248 CMR 10.05, SECTION 8.
- 3. TRENCHING, EXCAVATION AND BACKFILL AS PER 248 CMR 10.05, SECTION 5.
- 4. RODENT PROOFING AS PER PER 248 CMR 10.05, SECTION
- 5. MATERIALS USED IN PLUMBING SYSTEMS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF PER 248 CMR
- 6. EQUIPMENT CONNECTIONS AND JOINING OF PIPING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF PER 248
- 7. DEEP SEAL TRAPS FOR FLOOR DRAINS SHALL BE PROVIDED AS PER PC 1002, AND CLEAN-OUTS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF PER 248 CMR 10.08
- 8. DRAINAGE PIPE CLEANOUTS AS PER 248 CMR 10.08
- 9. VERTICAL AND HORIZONTAL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE REQUIREMENTS PER 248 CMR
- 10. WATER SUPPLY SYSTEMS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS PER 248 CMR 10.14
- 11. THE SANITARY DRAINAGE SYSTEM SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS PER 248 CMR 10.15
- 12. VENT PIPING FOR THE SANITARY DRAINAGE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS PER 248 CMR 10.16

PLUMBING SPECIFICATIONS:

1. BASIC PLUMBING REQUIREMENTS, MATERIALS AND METHODS.

A. PROVIDE ALL MATERIAL, TOOLS, SUPERVISION AND LABOR INCLUDING ALL MISCELLANEOUS AND INCIDENTAL ITEMS REQUIRED FOR COMPLETE AND OPERABLE PLUMBING INSTALLATIONS AS SHOWN OR DESCRIBED ON THE DRAWINGS AND IN THESE SPECIFICATIONS.

- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING AND NEW CONDITIONS AND MATERIALS WITHIN THE CONSTRUCTION AREA. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE OWNER'S SATISFACTION.
- C. OBTAIN ALL PERMITS, PAY ALL PERMIT FEES AND SCHEDULE ALL REQUIRED INSPECTIONS. COPIES OF ALL PERMITS AND INSPECTION CERTIFICATES SHALL BE FORWARDED TO THE OWNER FOR RECORD.
- D. THE GENERAL CONDITIONS OF THE CONTRACT AND ALL DIVISION 1 REQUIREMENTS APPLY TO THE WORK OF THIS SECTION.
- E. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING BID TO DETERMINE CONDITIONS AND THE EXTENT OF THE WORK. BY COMMENCING WORK, THE CONTRACTOR ACKNOWLEDGES HIS CONFIRMATION OF ALL CONDITIONS AS ACCEPTABLE WITH REFERENCE TO HIS CONTRACT, SCOPE OF WORK AND BID PRICE SUCH THAT NO ADDITIONAL COMPENSATION SHALL BE FORTHCOMING FOR UNFORESEEN EXISTING
- F. IN ALL AREAS SUBJECT TO FREEZING CONDITIONS. THE CONTRACTOR SHALL PROVIDE FREEZE PROTECTION FOR ALL DOMESTIC WATER PIPING INSTALLED UNDER HIS CONTRACT.
- G. ALL ELECTRICAL REQUIREMENTS SHALL BE COORDINATED WITH THE CONTRACTOR FOR ELECTRICAL WORK. THIS CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE WIRING FOR EQUIPMENT INSTALLED UNDER HIS CONTRACT. THE CONTRACTOR FOR ELECTRICAL WORK IS RESPONSIBLE FOR LINE VOLTAGE POWER WIRING ONLY.
- H. COLOR AND FINISH SELECTIONS FOR ALL MATERIALS, INCLUDING PAINTING OF PIPING, SHALL BE AS DIRECTED AND/OR APPROVED BY THE
- I. MINOR DETAILS NOT SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER AND ACCEPTABLE CONSTRUCTION, INSTALLATION OR OPERATION OF ANY PART OF THE WORK AS DETERMINED BY THE ENGINEER SHALL BE INCLUDED AS IF SPECIFIED OR INDICATED ON THE DRAWINGS.
- REQUIREMENTS FOR THE INSTALLATION, CONNECTION, EXTENSION OR MODIFICATION TO ALL UTILITY SERVICES WITH RESPECTIVE PROVIDERS INCLUDING PAYMENT OF ALL ASSOCIATED FEES.
- K. THE CONTRACTOR IS RESPONSIBLE FOR ALL PAINTING ASSOCIATED WITH CUTTING AND PATCHING. ALL PAINTING IN AREAS WITH COMPLETE FINISH RENOVATIONS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
- 1.02 SUBMITTALS
- A. SUBMITTAL REQUIREMENTS SHALL BE COORDINATED WITH THE ARCHITECT AND AUTHORITIES HAVING JURISDICTION. UNLESS OTHERWISE DIRECTED, CONTRACTOR SHALL PROVIDE SUBMITTALS AS LISTED BELOW.
 - . HANGERS AND SUPPORTS
- PLUMBING FIXTURES
- WATER HEATERS & ACCESSORIES . MIXING VALVES
- 9. ALL SCHEDULED PLUMBING EQUIPMENT
- B. SUBMITTALS FROM SUPPLIERS OR MANUFACTURERS WHICH DO NOT BEAR
- C. THE ENGINEER'S REVIEW OF SUBMITTALS IS A COURTESY WHICH DOES NOT RELIEVE THE CONTRACTOR FROM CONFORMING WITH THE CONSTRUCTION DOCUMENTS, REGARDLESS OF THE ACTION INDICATED BY
- FOR THESE SUBSEQUENT REVIEWS AS PER THE ENGINEER'S CURRENT HOURLY RATE SCHEDULE.
- E. SUBMIT PROOF OF APPROVAL AND/OR CONFIRMATION OF SATISFACTORY TEST RESULTS TO THE OWNER AND THE ARCHITECT.
- G. FOR ALL BELOW GRADE PIPING WHERE ACTUAL INSTALLATION DEVIATES FROM CONSTRUCTION DRAWINGS, THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS INDICATING BELOW GRADE PIPE LOCATIONS DIMENSIONED TO NEAREST COLUMN LINES.
- H. RECORD AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE OWNER/TENANT AFTER COMPLETION OF THE WORK SHOWING ANY ALTERATIONS, ADDITIONS AND/OR DELETIONS TO THE SYSTEM(S)

PLUMBING SYMBOLS, ABBREVIATIONS, NOTES & SPECIFICATIONS

- FOR THE PROPOSED SUBSTITUTION IDENTIFIED, AND THE PROPOSED CREDIT TO THE OWNER INDICATED. THE ENGINEER SHALL DETERMINE THE ACCEPTABILITY OF ANY PROPOSED SUBSTITUTIONS.
- B. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR COORDINATING THE WORK OF OTHER TRADES WHICH MAY BE AFFECTED BY SUBSTITUTIONS, INCLUDING ALL RELATED COSTS.

1.05 DEFINITIONS

1.06 DRAWINGS

- A. FURNISH: TO PURCHASE, PROCURE, ACQUIRE AND DELIVER, COMPLETE
- B. INSTALL: TO ERECT, MOUNT AND CONNECT, COMPLETE WITH RELATED ACCESSORIES.
- C. PROVIDE: TO FURNISH AND INSTALL.

WITH RELATED ACCESSORIES.

- D. PLUMBING CONTRACTOR, THE CONTRACTOR, THIS CONTRACTOR: THE CONTRACTOR FOR PLUMBING WORK WHICH IS SPECIFIED HEREIN AND SHOWN ON THESE DRAWINGS.
- E. REFER TO THE NATIONAL STANDARD PLUMBING CODE FOR ADDITIONAL
- A. THE DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO ILLUSTRATE THE GENERAL ARRANGEMENT AND ROUTING OF PIPING AND GENERAL LOCATIONS OF EQUIPMENT. PRECISE LOCATIONS OF EQUIPMENT. RISERS AND STACKS, AND ROUTING AND ELEVATION OF ALL PIPING SYSTEMS SHALL BE COORDINATED IN THE FIELD WITH THE ARCHITECT ARCHITECTURAL DRAWINGS, THE WORK OF OTHER TRADES, EXISTING AND NEW BUILDING CONDITIONS AND/OR THE PREFERENCES OF THE OWNER/TENANT AS CONSTRUCTION PROCEEDS. ALL PIPING SHALL BE INSTALLED CONCEALED IN FINISHED SPACES, UNLESS NOTED OTHERWISE.
- B. PROVIDE ALL NECESSARY INCIDENTAL MATERIALS AND ACCESSORIES REQUIRED TO MAKE THE WORK COMPLETE IN ALL RESPECTS, EVEN IF NOT PARTICULARLY SHOWN OR SPECIFIED.
- C. REFER TO PLUMBING EQUIPMENT/FIXTURE SCHEDULE ON THE DRAWINGS FOR ALL FIXTURE AND EQUIPMENT SPECIFICATIONS.
- D. REFER TO FIXTURE CONNECTION SIZE SCHEDULE FOR ALL FIXTURE ROUGHING SIZE REQUIREMENTS. E. VERIFY ALL INDICATED CONDITIONS BEFORE STARTING WORK AND REPORT ANY DISCREPANCIES. THE DRAWINGS REFLECT CONDITIONS WHICH CAN

BE REASONABLY INTERPRETED FROM THE EXISTING VISIBLE CONDITIONS

OR FROM DRAWINGS AND INFORMATION FURNISHED BY THE OWNER. F. LOCATE ALL FIXTURES AND EQUIPMENT AS PER THE FINAL ARCHITECTURAL DRAWINGS.

A. SANITARY AND VENT PIPING:

1.07 PRODUCTS

- 1. ABOVE GRADE PIPING SHALL BE HUBLESS CAST IRON PIPE WITH STAINLESS STEEL COUPLINGS AND ELASTOMERIC GASKETS WITH A MINIMUM 4 BANDS PER COUPLING.
- 2. SLOPE OF DRAINAGE SYSTEM SHALL BE 1/8" PER FOOT OF RUN FOR PIPE OVER 3" (I.D.) AND 1/4" PER FOOT OF RUN FOR PIPE 3" AND SMALLER (I.D.). VENT PIPING SHALL BE PITCHED TO
- 3. PVC OR OTHER COMBUSTIBLE PLASTIC PIPING SHALL NOT BE INSTALLED IN CEILING PLENUM SPACES.
- 4. ALL CAST IRON SOIL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE (CISPI) AND BE LISTED BY NSF INTERNATIONAL

B. DOMESTIC WATER PIPING:

- 1. ABOVE GRADE WATER PIPING SHALL BE TYPE 'L' HARD-DRAWN COPPER TUBE.
- 2. FITTINGS IN DOMESTIC WATER PIPING SHALL BE WROUGHT COPPER OR CAST BRASS.
- 3. JOINTS SHALL BE MADE WITH LEAD-FREE SOLDER.
- 4. THE ENTIRE DOMESTIC WATER DISTRIBUTION SYSTEM SHALL BE INSULATED INCLUDING ALL VALVES, FITTINGS, ETC.
- 5. COMPLY WITH NSF 61 FOR MATERIALS FOR WATER-SERVICE PIPING AND SPECIALTIES FOR DOMESTIC WATER.
- 6. ALL DOMESTIC WATER PIPING ABOVE GRADE SHALL BE INSULATED WITH FIRE-RETARDANT, FACTORY-APPLIED JACKET. PROVIDE COLD WATER PIPING WITH FACTORY-APPLIED VAPOR BARRIER. INSULATION REQUIREMENT SHOULD COMPLY WITH ENERGY CONSERVATION CODE 2018 SECTION C403.11.3 REFER BELOW TABLE.

	MINIMUM P	IPE INSULATION	THIC	KNESS			
FLUID OPERATING	INSULATION	CONDUCTIVITY	NO		PIPE 0 (INCHE		BE
TEMPERATURE RANGE AND USAGE (*F)	CONDUCTIVITY BTU·IN./ (H·FT2·*F)	MEAN RATING TEMPERATURE, °F	<1	1 to < 1½	1½ to < 4	4 to < 8	<8
105-140	0.21-0.28	100	1.0	1.0	1.5	1.5	1.5
40-60	0.21-0.27	75	0.5	0.5	1.0	1.0	1.0

- 7. WATER DISTRIBUTION SYSTEM AS PER INTERNATIONAL ENERGY CONSERVATION CODE 2018 C404.7, HAVING ONE OR MORE RECIRCULATION PUMPS THAT PUMP WATER FROM A HEATED-WATER SUPPLY PIPE BACK TO THE HEATED-WATER SOURCE THROUGH A COLD-WATER SUPPLY PIPE SHALL BE A DEMAND RECIRCULATION WATER SYSTEM. PUMPS SHALL HAVE CONTROLS THAT COMPLY WITH BOTH OF THE FOLLOWING:
- a. THE CONTROL SHALL START THE PUMP UPON RECEIVING A SIGNAL FROM THE ACTION OF A USER OF A FIXTURE OR APPLIANCE, SENSING THE PRESENCE OF A USER OF A FIXTURE OR SENSING THE FLOW OF HOT OR TEMPERED WATER TO A FIXTURE FITTING OR APPLIANCE.
- b. THE CONTROL SHALL LIMIT THE TEMPERATURE OF THE WATER ENTERING THE COLD-WATER PIPING TO 104°F (40°C).
- 8. AS PER INTERNATIONAL ENERGY CONSERVATION CODE 2018 C404.6.1 HEATED-WATER CIRCULATION SYSTEMS SHALL BE PROVIDED WITH A CIRCULATION PUMP. THE SYSTEM RETURN PIPE SHALL BE A DEDICATED RETURN PIPE OR A COLD WATER SUPPLY PIPE. CONTROLS FOR CIRCULATING HOT WATER SYSTEM PUMPS SHALL START THE PUMP BASED ON THE IDENTIFICATION OF A DEMAND FOR HOT WATER WITHIN THE OCCUPANCY. THE CONTROLS SHALL AUTOMATICALLY TURN OFF THE PUMP WHEN THE WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE AND WHEN THERE IS NO DEMAND FOR HOT WATER.
- 9. HW SYSTEM PIPING IS DESIGNED AS PER MAXIMUM ALLOWED PIPE LENGTH METHOD AS PER IECC 2018 C404.5.1. THE HW PIPE LENGTH FROM THE NEAREST SOURCE OF HEATED WATER TO THE TERMINATION OF THE FIXTURE SUPPLY PIPE SHALL BE AS PER FOLLOWING TABLE.

NOMINAL PIPE SIZE	MIXIMUM PIPING LENGTH (FEET)			
(INCHES)	PUBLIC LAV	OTHER FIXTURES		
1/2"	2'	43'		
3/4"	0.5'	20'		
1"	0.5'	13'		
1¼"	0.5'	8'		
1½"	0.5'	6'		
2" OR LARGER	0.5'	4'		

10. SEAL ALL JOINTS BETWEEN SEGMENTS OF INSULATION. 11. PROVIDE SHIELDS BETWEEN HANGERS AND INSULATION.

C. HANGERS AND SUPPORTS:

CLEVIS HANGERS.

- HANGERS SHALL BE STANDARD STEEL, MALLEABLE OR WROUGHT IRON, AS MANUFACTURED BY GRINNELL OR APPROVED EQUAL, SUITABLE FOR THE TYPE OF CONSTRUCTION. PIPING SHALL NOT BE
 - HUNG FROM OTHER PIPE. 2. SECTIONS OF INDIVIDUAL PIPE RUNS SHALL BE SUPPORTED BY
- 3. ALL EQUIPMENT SHALL BE PROVIDED WITH APPROVED
- 4. PROVIDE SEISMIC RESTRAINTS IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND STANDARDS AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- 5. UNLESS OTHERWISE INDICATED OR REQUIRED BY AUTHORITIES HAVING JURISDICTION, THE FOLLOWING SHALL BE PROVIDED WITH SEISMIC RESTRAINTS AS REQUIRED BY THE BOCA NATIONAL BUILDING CODE, SECTION 1610.6.4: ALL EQUIPMENT AND MACHINERY, ALL NEW PIPING 2-1/2" AND LARGER (1-1/4" AND LARGER INBOILER/MECHANICAL ROOMS) WITH HANGERS GREATER THAN 12" IN LENGTH FROM THE TOP OF PIPE TO THE STRUCTURE.
- 6. SUPPORTS SHALL BE PROVIDED IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE PIPING MANUFACTURER.

- PROVIDE GATE VALVES, BUTTERFLY OR BALL VALVES FOR SHUT-OFF DUTY ON MAIN AND BRANCH SUPPLY LINES. FOR ALL PIPE RUNS 2" AND SMALLER, PROVIDE BALL FOR ALL PIPE RUNS LARGER THAN 2" AND SMALLER THAN 4", PROVIDE GATE VALVES. PIPING 4" AND LARGER, PROVIDE BUTTERFLY VALVES FOR SHUT-OFF DUTY.
- 2. ALL FIXTURES WITH THE EXCEPTION O FLUSHOMETER-EQUIPPED WATER CLOSETS AND URINALS SHALL HAVE STOP VALVES TO CONTROL SUPPLY TO THE FIXTURE. WHERE SUPPLIES ARE EXPOSED PROVIDE CHROME-PLATED STOPS WITH CHROME-PLATED ESCUTCHEONS ON PIPING PENETRATIONS.
- 3. ALL PLUMBING FIXTURES AND EQUIPMENT TO HAVE SHUT-OFF
- 4. ALL BRANCH LINES TO HAVE SHUT-OFF VALVES.

VALVES ON SUPPLY LINES.

- 5. ALL VALVES SHALL BE ACCESSIBLE. PROVIDE ACCESS DOORS WHERE REQUIRED FOR VALVE ACCESS.
- 6. PROVIDE GLOBE VALVES FOR THROTTLING/BALANCING OF THE HOT WATER CIRCULATING SYSTEM.

E. SLEEVES AND ESCUTCHEONS:

- 1. SLEEVES THROUGH STRUCTURAL CONCRETE MEMBERS AND SLEEVES FOR WALLS BELOW GRADE AND FLOORS ON GRADE SHALL BE STANDARD WEIGHT GALVANIZED SCHEDULE 40 STEEL PIPE. SLEEVES THROUGH OTHER THAN STRUCTURAL COMPONENTS OF THE BUILDING SHALL BE 20 GAGE GALVANIZED SHEET METAL WITH LOCK SEAM JOINTS. USG THERMAFIBER SAFING INSULATION SHALL BE INSTALLED BETWEEN PIPE AND SLEEVE.
- 2. PIPE ESCUTCHEON PLATES SHALL BE INSTALLED WHERE EXPOSED PIPING PASSES THROUGH WALLS, CEILINGS, AND FLOORS AND SHALL BE MINIMUM 20 GAGE STEEL. PROVIDE CHROME PLATED ESCUTCHEON PLATES IN FINISHED AREAS.

F. DRAINAGE ACCESSORIES

- GENERAL: a. INSTALL THE WORK OF THIS SECTION IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, UNLESS OTHERWISE SPECIFIED.
- b. SECURE EXTERNAL COMPONENTS IN PLACE WITH VANDAL RESISTANT FASTENERS OR DEVICES WHICH CANNOT BE REMOVED WITHOUT SPECIAL TOOLS.
- INSTALL PIPING TO CONSERVE BUILDING SPACE. DO NOT INTERFERE WITH USE OF BUILDING SPACE AND THE WORK OF OTHER TRADES. ALL PIPING RUN IN CEILING SHALL BE INSTALLED TIGHT TO THE STRUCTURE ABOVE.
- INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS OR CONNECTED EQUIPMENT. PROVIDE PIPE ANCHORS, GUIDES AND EXPANSION JOINTS OR LOOPS IN ALL HOT WATER AND HOT WATER CIRCULATING MAIN SUPPLY PIPING AND SEGMENTS OF SUCH PIPE THAT EXCEED 30'-0" IN LENGTH.
- IN ALL AREAS WITH FINISHED SURFACES, SYSTEM PIPING AND COMPONENTS SHALL BE CONCEALED ABOVE OR WITHIN FINISHED
- REDUCTIONS IN PIPE SIZES SHALL BE MADE WITH ONE-PIECE REDUCING FITTINGS. BUSHINGS ARE NOT ACCEPTABLE. USE FLANGED FITTINGS AT THE BASE OF RISERS.
- VENT PENETRATIONS THROUGH THE ROOF SHALL BE FLASHED. IF WATER PRESSURE EXCEEDS 80 PSI, A WATER PRESSURE REDUCING VALVE SHALL BE INSTALLED IN WATER PIPING AT
- CONNECTION TO MAIN. M. PROVIDE DIELECTRIC FITTINGS BETWEEN DISSIMILAR METALS.
- PIPE BACKFLOW PREVENTER DRAINS TO FLOOR DRAIN OR OTHER APPROVED INDIRECT WASTE SOURCE.
- PROVIDE ACCESS DOORS/PANELS FOR SERVICE AND ACCESS TO ALL VALVES AND OTHER SYSTEM COMPONENTS ENCLOSED IN WALLS AND CEILINGS. ACCESS DOORS SHALL BE FURNISHED BY THIS CONTRACTOR, INSTALLED BY THE GENERAL CONTRACTOR.
- ALL FIXTURES REQUIRING VACUUM BREAKERS SHALL BE EQUIPPED

WITH INTEGRAL VACUUM BREAKERS.

- ANY PENETRATIONS THROUGH FIRE RATED PARTITIONS, FLOORS, OR CEILINGS SHALL BE STEEL SLEEVED AND SEALED WITH 3M BRAND UL RATED FIRE BARRIER CAULK OR APPROVED EQUAL.
- WHEN THE WATER PIPING SYSTEM IS COMPLETE. THOROUGHLY FLUSH ALL DIRT, SEDIMENT, SOLDER, ETC., OUT OF THE SYSTEM, REMOVING ALL STRAINERS, VALVE STEM SEATS, ETC., REQUIRED TO ACCOMPLISH THE FLUSHING.
- S. AT ALL INDIRECT WASTE DRAINS, MAINTAIN AIR GAP AS REQUIRED BY
- T. INSTALL SLEEVES FOR ALL PIPES WHICH PASS THROUGH WALLS, FLOORS, AND CEILINGS, WHERE PIPES ARE TO BE INSULATED, THE SLEEVE SHALL BE LARGE ENOUGH TO ACCOMMODATE INSULATION. SLEEVES SHALL BE FLUSH WITH FINISHED SURFACES AT BOTH ENDS ON FINISHED SURFACES IN EXPOSED AREAS PROVIDE ESCUTCHEONS

3. TESTING

U. PROVIDE WATER HAMMER ARRESTERS ON SUPPLY PIPING TO ALL

V. MAINTAIN ALL REQUIRED AND RECOMMENDED CLEARANCES FOR ALL

FLUSHOMETER VALVES AND QUICK-CLOSING VALVES.

PLUMBING SYSTEM COMPONENTS AND EQUIPMENT.

REQUIRED TO MAINTAIN ANY EXISTING ROOF WARRANTIES.

CORROSION, COLOR PER ARCHITECT.

THE CONSTRUCTION SCHEDULE.

FERROUS END PIPE.

BEFORE ASSEMBLY.

BUILDING CONDITIONS.

PROPERTY MANAGER IS REQUIRED.

2.02 ABOVE GRADE

SERVES INTENDED PURPOSES.

OF THE CONTRACTOR.

2.03 INSULATION

CONSERVATION CODE.

B. EXTERIOR INSTALLATIONS TO BE WEATHER PROOF IN ALL RESPECTS.

C. EXTERIOR MATERIALS AND EQUIPMENT SHALL BE PAINTED TO PREVENT

D. COORDINATE THE PLUMBING WORK WITH ALL OTHER AFFECTED WORK AND

E. REAM PIPE AND TUBE ENDS. REMOVE BURRS. BEVEL PLAIN AND

F. REMOVE SCALE AND FOREIGN MATERIAL. FROM INSIDE AND OUTSIDE.

G. PREPARE PIPING CONNECTIONS TO EQUIPMENT WITH FLANGES AND

H. COORDINATION WITH THE WORK OF OTHER TRADES IS REQUIRED.

I. NO DOMESTIC WATER PIPING SHALL BE INSTALLED IN UNHEATED

J. PRIOR TO DISCONNECTING AND CONNECTING NEW WORK TO EXISTING

SYSTEMS, THE PLUMBING CONTRACTOR SHALL NOTIFY THE PROPERTY

MANAGER AND OFFER A PROPOSED SCHEDULE OF WORK. ESB WILL

AUTHORIZE CONNECTIONS AND COORDINATE NECESSARY SHUT DOWNS

AND DRAIN DOWNS AS REQUIRED. SHUT DOWNS AND DRAIN DOWNS MAY

BE PERFORMED BY THE PLUMBING CONTRACTOR ONLY AFTER RECEIVING

ESB AUTHORIZATION, AND SHOULD BE PERFORMED UNDER SUPERVISION

OF ESB PERSONNEL. THREE (3) DAYS ADVANCE NOTICE TO THE

THE OPERATIONS AND TENANT REQUIREMENTS, CONNECTIONS TO EXISTING

SYSTEMS MAY HAVE TO BE MADE AFTER REGULAR WORKING HOURS. THE

PROPERTY MANAGER WILL ADVISE THE PLUMBING CONTRACTOR OF THE

TIME CONSTRAINTS UPON RECEIPT AND APPROVAL OF THE PLUMBING

CONTRACTOR'S REQUEST FOR SHUT DOWN AND CONNECTION TO EXISTING

L. WHEN CONNECTING TO EXISTING STACKS AND RISERS, PROVISION IS TO

A. INSTALL PLUMBING PIPING IN ACCORDANCE WITH RECOGNIZED INDUSTRY

B. ROUTE PIPING IN AN ORDERLY MANNER. PLUMB AND PARALLEL TO

VALVES AT MAIN SHUT-OFF VALVES AND ALL LOW POINTS IN PIPING.

C. USE EXISTING CONNECTIONS AT MAINS WHERE AVAILABLE FOR NEW

COVER ALL HOT WATER AND HOT WATER RECIRCULATION PIPE WITH 1"

THICK FOR PIPE SIZE UP TO 11/2" AND 11/2" THICK FOR PIPE SIZE 11/2" AND

GREATER WITH MANVILLE MICRO-LOK AP-T PLUS FIBERGLASS INSULATION.

COVER ALL COLD WATER PIPE WITH ½" THICK FOR PIPE SIZE UP TO 1¼"

AND 1" THICK FOR PIPE SIZE 11/3" AND GREATER WITH 1" MANVILLE

MICRO-LOK AP-T PLUS FIBERGLASS INSULATION. FITTINGS AND VALVES

SHALL BE INSULATED WITH MANVILLE ZESTON 2000 PVC INSULAT-ED

FITTING COVERS. INSTALL ALL INSULATION AS PER MANUFACTURERS

RECOMMENDATIONS. ALL INSULATION MATERIAL SHALL COMPLY WITH THE

NEW YORK CITY BUILDING CODE REQUIREMENT OF A FLAME SPREAD RATING

NOT TO EXCEED 25 AND A SMOKE DEVELOPED RATING NOT TO EXCEED 50.

ALL PIPE INSULATION SHALL COMPLY WITH 2018 INTERNATIONAL ENERGY

BRANCH PIPING. LOCATE ALL RISERS AND PIPING BEFORE CONSTRUCTION

COMMENCES AND TAKE CARE NOT TO DAMAGE SAME. ANY DAMAGE

OCCURRING TO THE EXISTING PIPING WILL BE THE SOLE RESPONSIBILITY

BUILDING STRUCTURE. MAINTAIN GRADIENT. SLOPE PIPING AND ARRANGE

SYSTEMS TO DRAIN. IN DOMESTIC WATER SYSTEMS, PROVIDE DRAIN

PRACTICES TO ENSURE THAT PIPING COMPLIES WITH REQUIREMENTS AND

BE MADE FOR FUTURE CONNECTIONS BY PROVIDING CAPPED AND VALVED

OUTLETS ON DOMESTIC WATER RISERS AND PLUGGED OUTLETS ON THE

K. THE PLUMBING CONTRACTOR IS ADVISED THAT DUE TO THE NATURE OF

PROVIDE OFFSETS IN PIPING SYSTEMS OR MINOR DEVIATIONS TO THE

INDICATED PIPE ROUTING IN ORDER TO COORDINATE THE PLUMBING

WORK WITH THE WORK OF ALL OTHER TRADES AND THE GENERAL

2. INSTALLATION

2.01 GENERAL

- A. AT THE COMPLETION OF THE PLUMBING WORK, COMPLETELY TEST THE ENTIRE INSTALLATION OF ALL SYSTEMS FOR PROPER OPERATION AND COMPLIANCE WITH APPLICABLE CODES AND LOCAL REQUIREMENTS. CORRECT ALL DEFICIENCIES FOUND.
- B. TESTING OF THE INSTALLED SYSTEMS SHALL BE MADE BY THE CONTRACTOR IN THE PRESENCE OF A REPRESENTATIVE OF THE OWNER.
- C. THE CONTRACTOR SHALL NOT COVER UP OR PERMANENTLY CONCEAL PIPING, DEVICES OR ANY PORTION OF NEWLY CONSTRUCTED PLUMBING SYSTEM(S) UNTIL SUCH SYSTEM, OR PORTION OF THE SYSTEM, HAS A. ALL WORK WHICH REQUIRES DISRUPTION OF THE ROOFING SHALL BE BEEN TESTED IN THE PRESENCE OF A REPRESENTATIVE OF THE OWNER DONE BY A CONTRACTOR CERTIFIED BY THE ROOFING MANUFACTURER AS AND INSPECTED BY THE LOCAL INSPECTOR AND APPROVED IN WRITING, EXCEPT PIPING PASSING THROUGH FLOORS, WALLS, PARTITIONS, OF BEAMS, FOR DISTANCES EQUAL TO THE THICKNESS OF SUCH FLOOR, WALL, PARTITION OR BEAM.
 - D. THIS CONTRACTOR SHALL NOTIFY THE VARIOUS DEPARTMENTS, BUREAUS AND INDIVIDUALS AT LEAST TWO WEEKS IN ADVANCE OF THE TIME THAT THE TESTS ARE TO BE CONDUCTED.
 - . ALL DEFECTIVE PARTS SHALL BE REPLACED OR CORRECTED BY THIS CONTRACTOR AND AN EXTRA TEST OR TESTS SHALL BE MADE UNTIL THE OPERATION IS SATISFACTORY. ALL ARRANGEMENTS AND EXPENSES NECESSARY TO CONDUCT ALL TESTS REQUIRED BY THESE SPECIFICATIONS AND THE VARIOUS AGENCIES HAVING JURISDICTION OVER THE WORK INSTALLED UNDER THIS CONTRACT SHALL BE MADE BY THIS CONTRACTOR. NO EXTRA COMPENSATION WILL BE ALLOWED FOR THESE TESTS, THE COST THEREOF BEING INCLUDED IN THE LUMP SUM BID FOR THIS CONTRACT.

F. WHERE ANY EVIDENCE OF STOPPAGE IS FOUND IN PIPING OR EQUIPMENT, THIS CONTRACTOR SHALL DISCONNECT, CLEAN, REPAIR AND RECONNECT ALL OBSTRUCTED PIPING OR EQUIPMENT AND SHALL ALSO PAY FOR ALL NECESSARY CUTTING AND REPAIRS TO ADJOINING WORK.

- G. ALL PIPING AND EQUIPMENT SHALL BE THOROUGHLY CLEANED INSIDE AND OUT, OF DIRT, CUTTINGS, OILS AND OTHER FOREIGN SUBSTANCES AND SHALL BE LEFT CLEAN.
- H. ALL REQUIRED TESTS SHALL BE WITNESSED BY LOCAL AUTHORITIES AND THE OWNER'S REPRESENTATIVE.
- J. ALL EQUIPMENT WILL BE FACTORY TESTED.

CONTRACTOR SHALL IDENTIFY TO THE OWNER'S REPRESENTATIVE ANY LEAKS OR DAMAGE THAT OCCURS AS A RESULT OF SYSTEM TESTING. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO LIMIT ANY POTENTIAL DAMAGE. CORRECTIVE ACTION REQUIRED AS A RESULT OF TESTING SHALL BE PERFORMED IMMEDIATELY AND AT THE CONTRACTOR'S

- K. REPORT IN WRITING TO AUTHORITIES HAVING JURISDICTION, THE ARCHITECT AND THE OWNER THE RESULTS OF ALL TESTING.
- TESTING REQUIREMENTS
- a. TEST ALL DOMESTIC WATER PIPING HYDROSTATICALLY TO 125 b. HYDROSTATIC TEST PRESSURES SHALL REMAIN CONSTANT WITH
- NO VARIATION FOR 120 MINUTES. c. TESTS SHALL BE WITNESSED BY THE BUILDING ENGINEER. d. THE PLUMBING CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGE DUE TO TEST FAILURES AND LEAKAGE IN THE TEST AREA AND ADJACENT TENANT OR ESB SPACES.
- M. REFILL ENTIRE POTABLE HOT AND COLD WATER SUPPLY SYSTEM WITH CHLORINE SOLUTION (HTH OLIN CHEMICAL CORP.) AT A STRENGTH TO MEET STANDARDS OF THE DEPARTMENT OF HEALTH, AND FOR A PERIOD OF RETENTION AS STIPULATED.
- N. THOROUGHLY FLUSH PIPING SYSTEM WITH FRESH WATER IMMEDIATELY PRIOR TO FINAL ACCEPTANCE.

4. WARRANTY

PROMPTLY REPAIRED.

A. EQUIPMENT. MATERIALS AND WORKMANSHIP FURNISHED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER. THE CONTRACTOR SHALL KEEP THE WORK IN GOOD REPAIR FOR ONE YEAR AFTER THE DATE OF FINAL APPROVAL. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, PROMPTLY CORRECT AND REPAIR ANY AND ALL BREAKS, FAILURES OR WEAR DUE TO FAULTY MATERIALS. WORKMANSHIP OR EQUIPMENT. ALL SETTLEMENTS OF SURFACES THAT MAY OCCUR WITHIN THAT PERIOD SHALL ALSO BE

INTERIOR ARCHITECTURE SPACE PLANNING FACILITIES MANAGEMENT PROJECT MANAGEMENT

ARCHITECTURE

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KENDALL SQUARE 610 Main Street

Cambridge, MA

02139 **PLUMBING** SYMBOLS, ABBREVIATIONS,

NOTES & SPECIFICATIONS

CONSTRUCTION DOCUMENTS -

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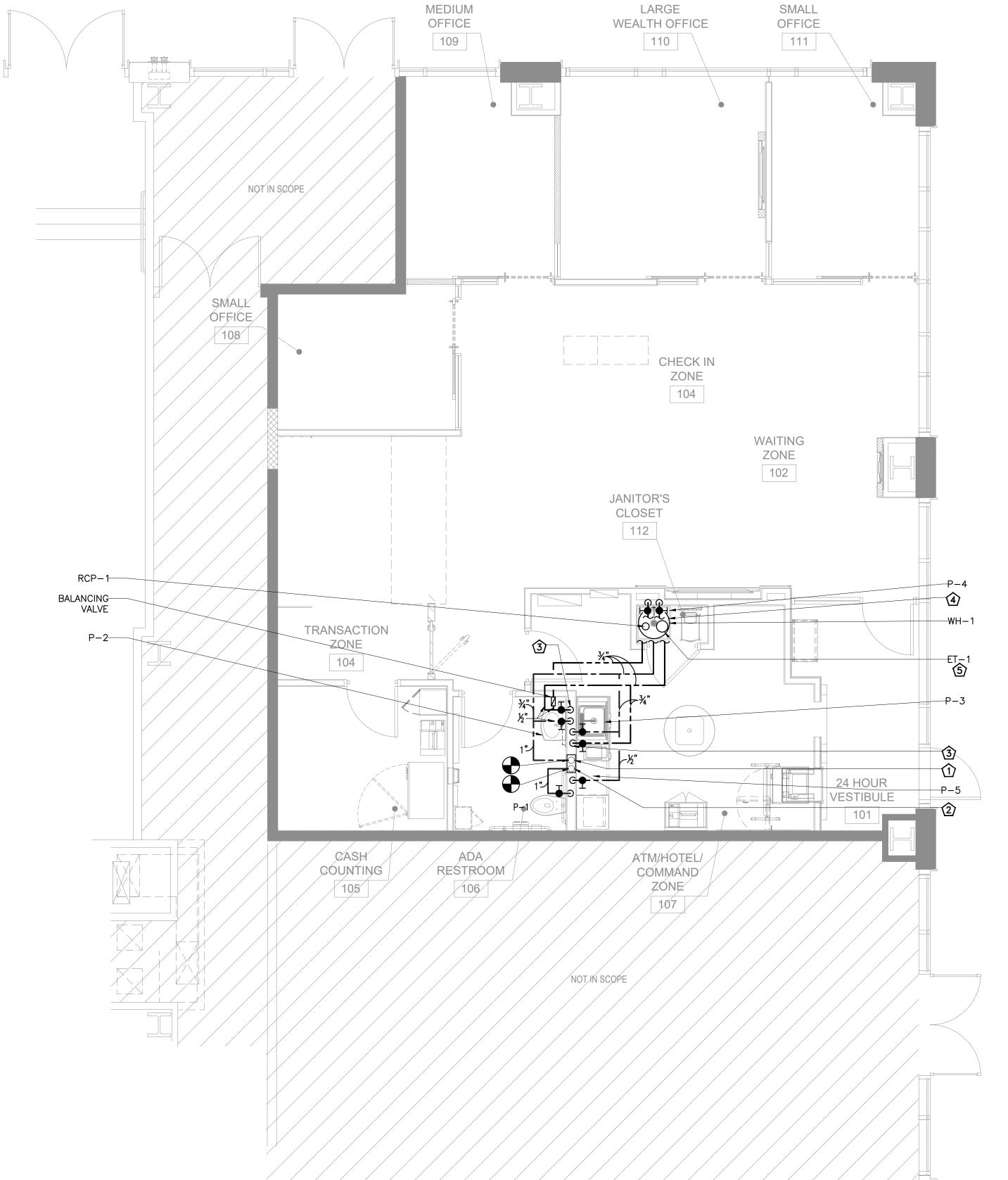




- ARCHITECT
- J. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL
- 1. PIPE AND FITTINGS VALVES
- 4. PLUMBING PIPING LAYOUT
- THE STAMP OF THE SUBMITTING CONTRACTOR INDICATING THAT THE CONTRACTOR HAS REVIEWED THE SUBMITTAL FOR CONFORMANCE WITH THE PROJECT REQUIREMENTS WILL BE RETURNED REJECTED.
- THE SHOP DRAWINGS STAMP. D. REVIEW OF SHOP DRAWINGS BY THE ENGINEER SHALL BE LIMITED TO THE INITIAL REVIEW, AND A SECOND REVIEW OF ANY REQUIRED RESUBMITTED DATA. IF THE ENGINEER IS REQUIRED TO REVIEW SHOP DRAWINGS FOR A THIRD (OR MORE) SUBMISSION OF THE SAME ITEM, THE CONTRACTOR SHALL BE LIABLE FOR COMPENSATING THE ENGINEER
- F. SUBMIT TO THE OWNER'S MAINTENANCE PERSONNEL OPERATION AND MAINTENANCE DATA FOR ALL SYSTEM COMPONENTS, SERVICING REQUIREMENTS, INSPECTION DATA, REPLACEMENT PART NUMBERS AND AVAILABILITY AND CONTACT INFORMATION FOR SERVICE/SUPPLY COMPANY.

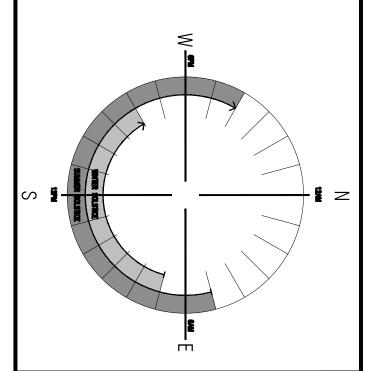
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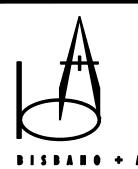
1.03 SUBSTITUTIONS A. ALL EQUIPMENT SHALL BE PRODUCTS OF THE SPECIFIED MANUFACTURER OR MANUFACTURERS. ALL BIDS SHALL BE BASED ON THE SPECIFIED MANUFACTURER OR MANUFACTURER'S EQUIPMENT. FOR SUBSTITUTIONS OF OTHER MANUFACTURER'S EQUIPMENT TO BE CONSIDERED, THE SUBSTITUTION MUST BE INDICATED PRIOR TO BIDDING WITH THE REASON



PLUMBING KEYNOTES

- EXTEND AND CONNECT NEW 1" CW PIPING TO EXISTING 1" CW LINE. CONTRACTOR TO CONFIRM WATER SUBMETER, BACKFLOW PREVENTER REQUIREMENTS WITH LANDLORD. CONTRACTOR TO FIELD VERIFY SIZE, ROUTING AND LOCATION PRIOR TO BID.
- EXTEND AND CONNECT NEW 1" CW PIPING TO EXISTING 1" CW LINE FOR FLUSH VALVE. CONTRACTOR TO CONFIRM, BACKFLOW PREVENTER REQUIREMENTS WITH LANDLORD. CONTRACTOR TO FIELD VERIFY SIZE, ROUTING AND LOCATION.
- PROVIDE HOT WATER MIXING VALVE (TMV-1). SET MAX. OUTLET TEMP. AT 110°F.
- 4 ROUTE T&P RELIEF TO DRAIN IN MOP SINK.
- (5) CONTRACTOR TO INSTALL NEW EXPANSION TANK AMTROL MODEL THERM-X-TROL ST-5, 2.0 GAL PER LOCAL CODE REQUIREMENTS.





ARCHITECTURE
INTERIOR ARCHITECTURE
SPACE PLANNING
FACILITIES MANAGEMENT
PROJECT MANAGEMENT

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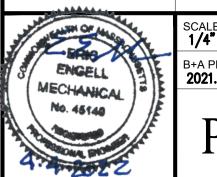
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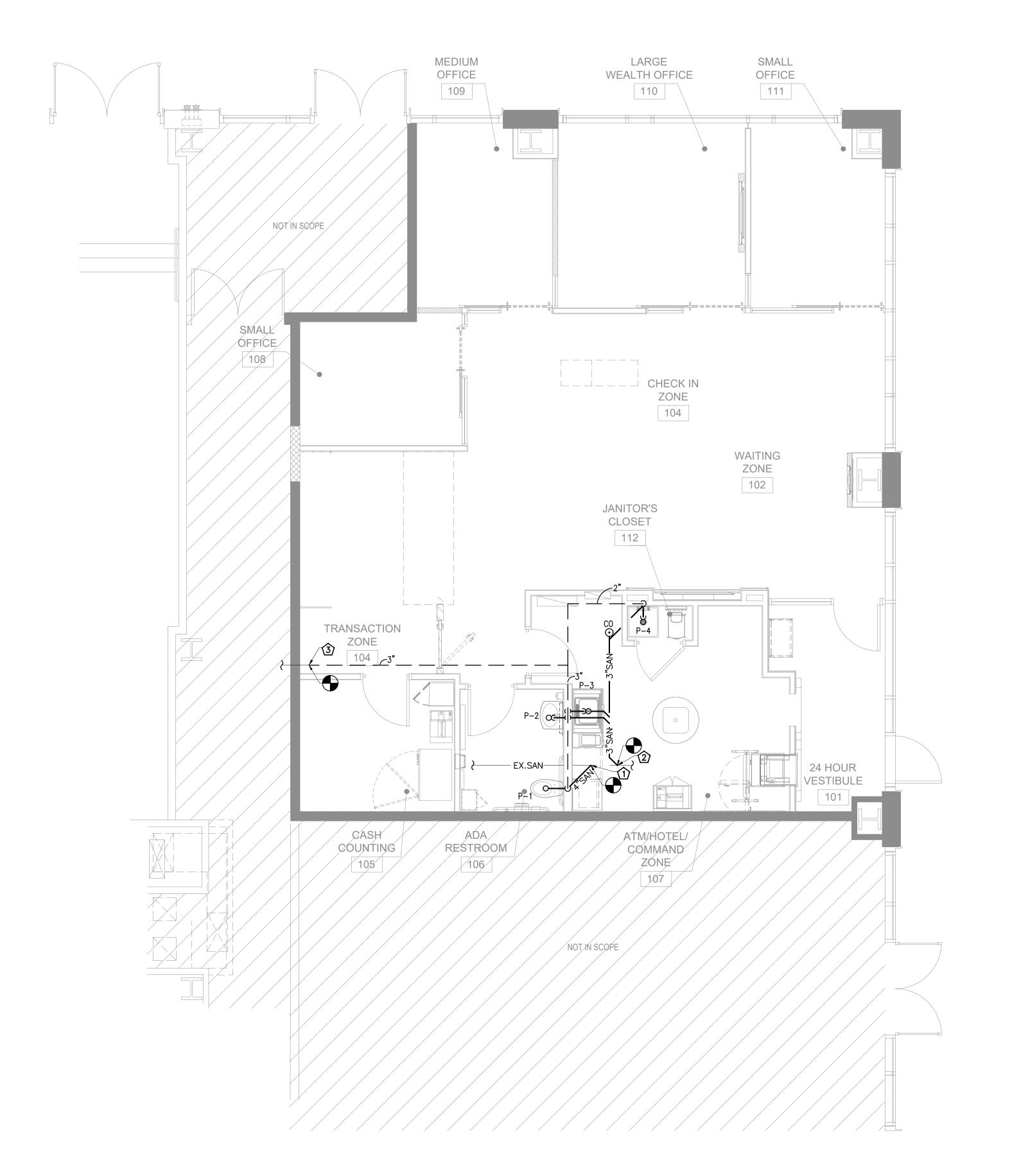
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PLUMBING WATER PIPING PLAN

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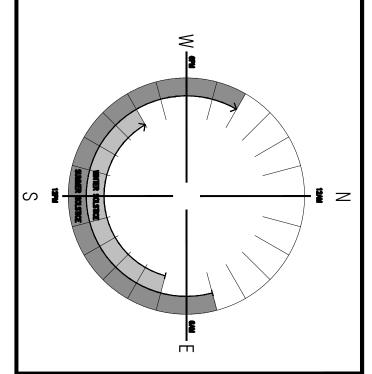
ISSUE DATE: 03/31/2022





PLUMBING KEYNOTES

- CONNECT NEW 4" SANITARY LINE TO EXISTING 4" SANITARY WASTE LINE OF ADEQUATE SIZE. CONTRACTOR TO FIELD VERIFY SIZE, ROUTING AND INVERT ON SITE.
- CONNECT NEW 3" SANITARY LINE TO EXISTING 4" SANITARY WASTE LINE OF ADEQUATE SIZE. CONTRACTOR TO FIELD VERIFY SIZE, ROUTING AND INVERT ON SITE.
- CONNECT TO NEW 3" VENT PIPE TO EXISTING VENT STUBOUT. CONTRACTOR TO FIELD VERIFY SIZE, ROUTING ON SITE.





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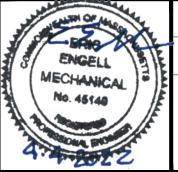


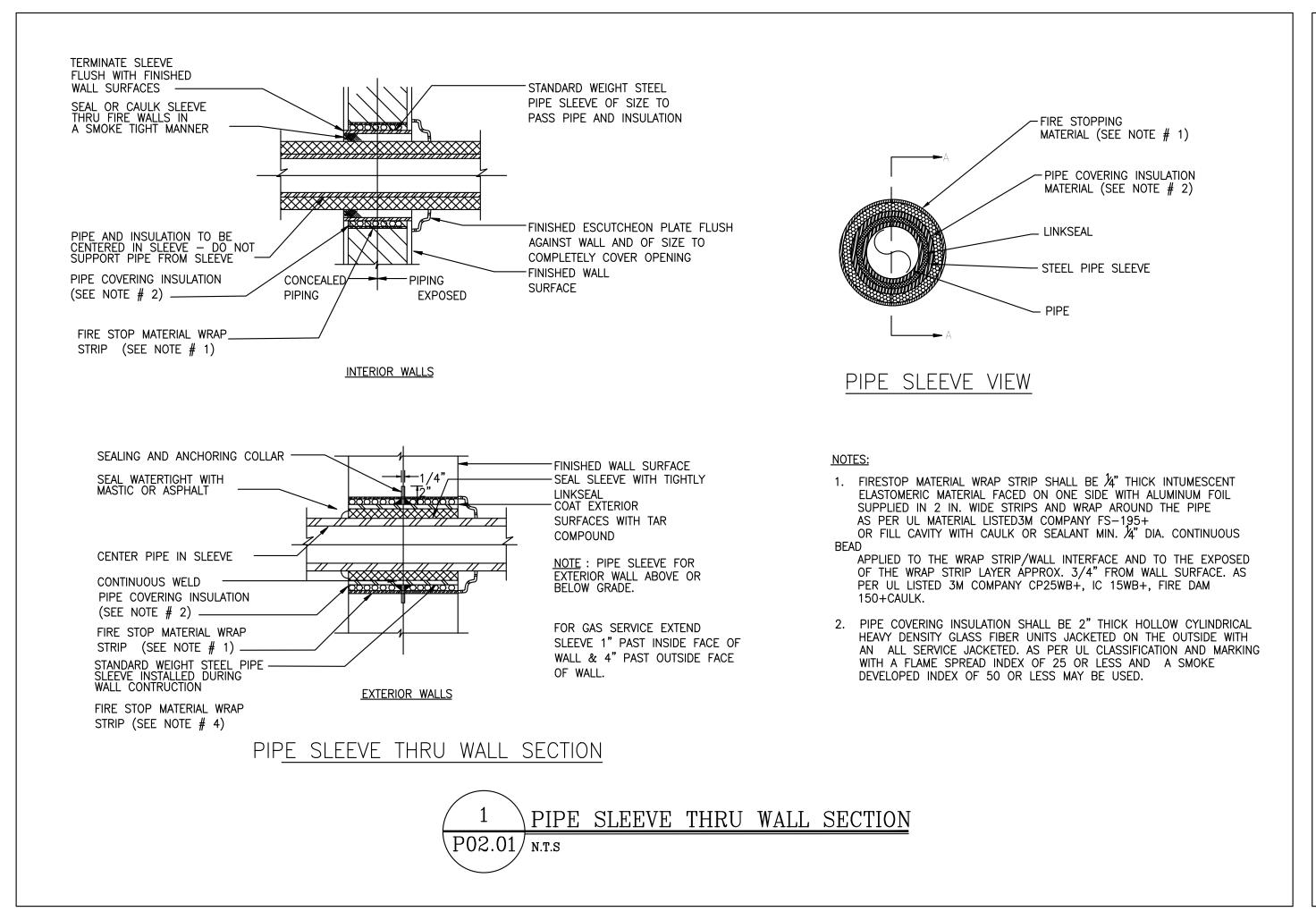
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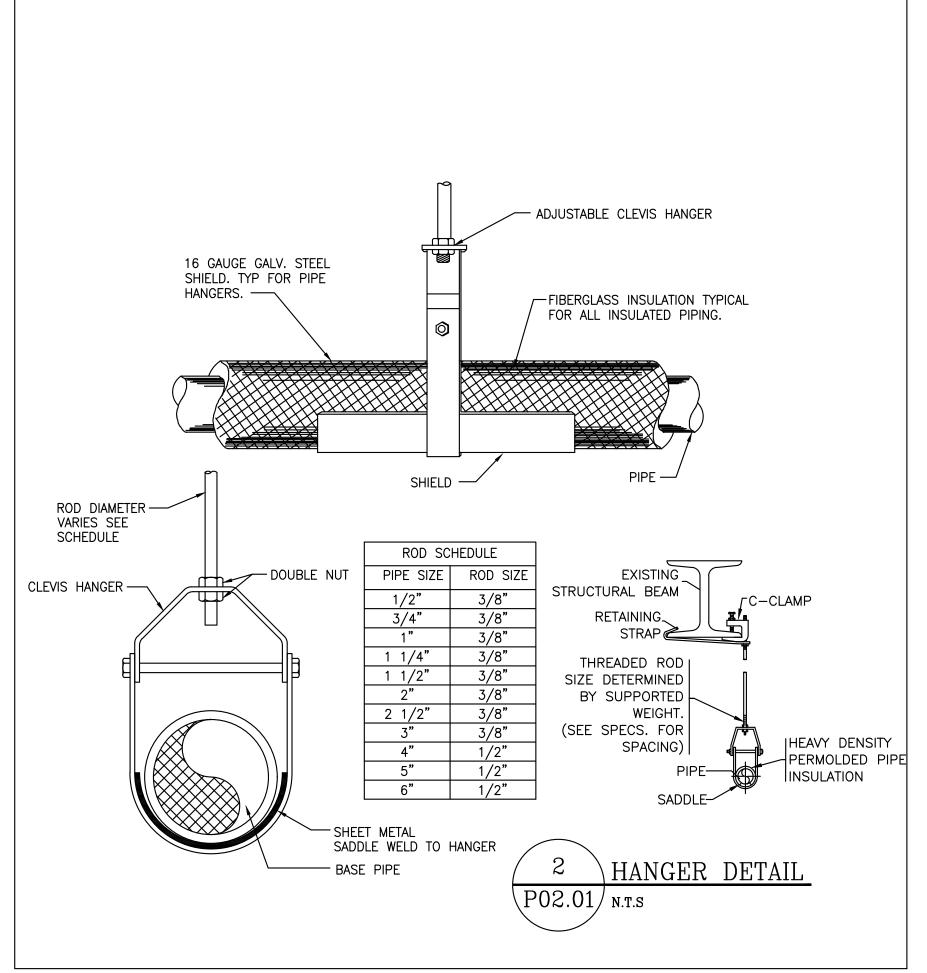
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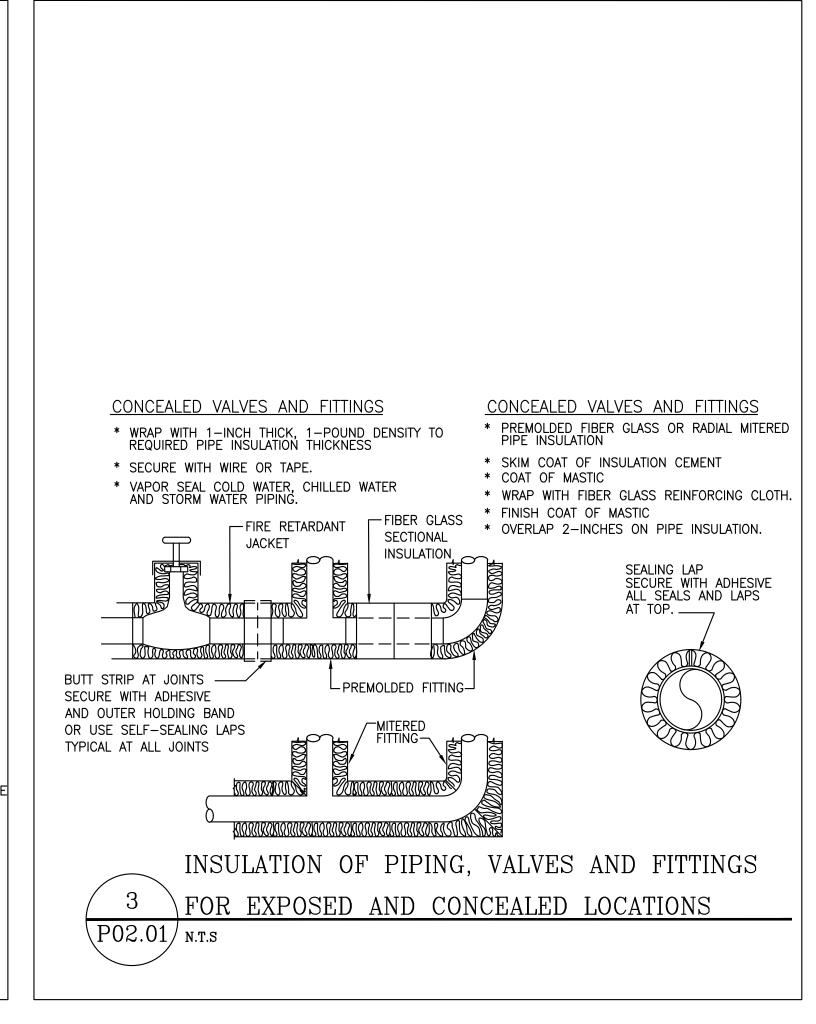
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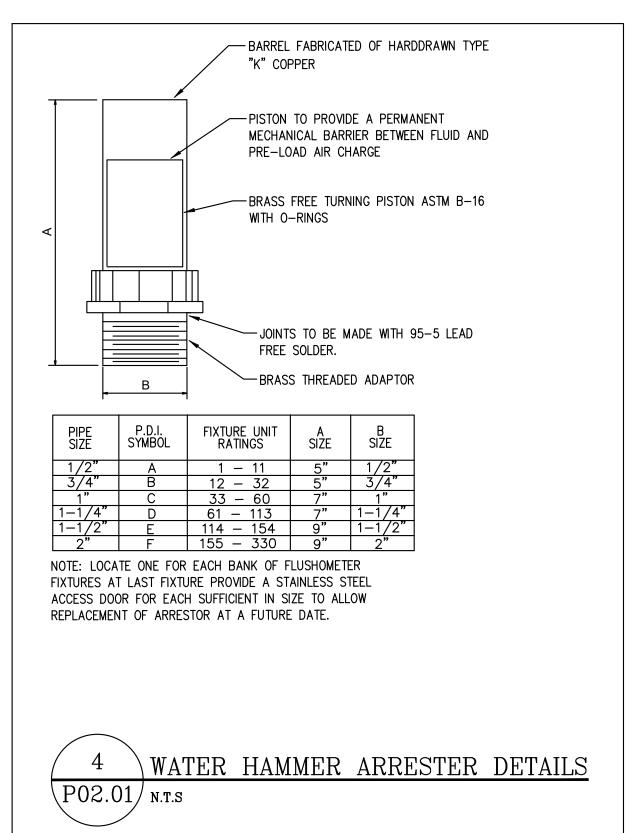
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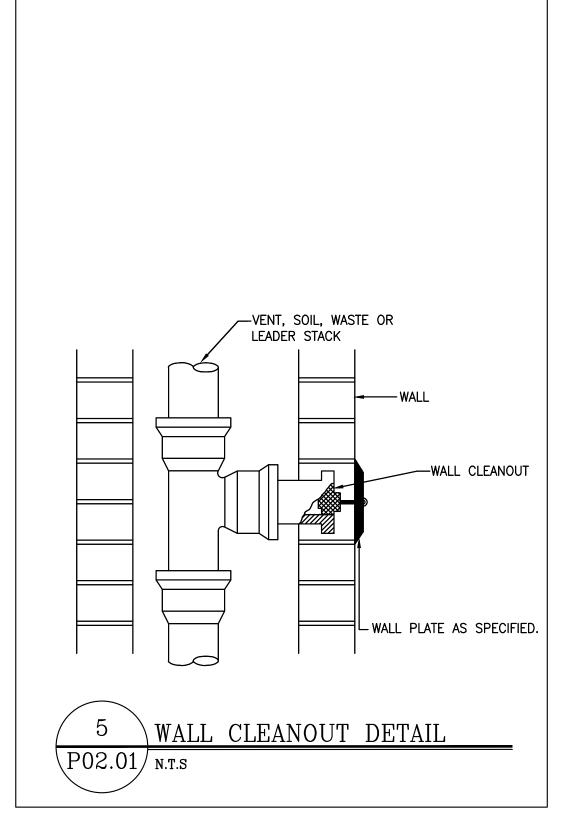


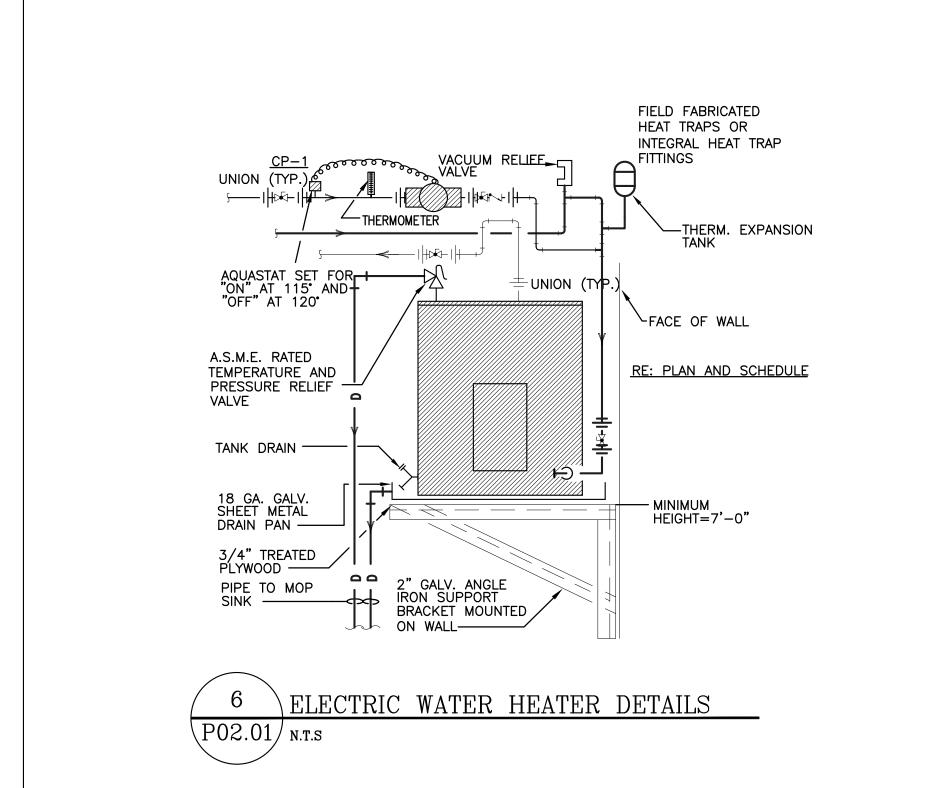


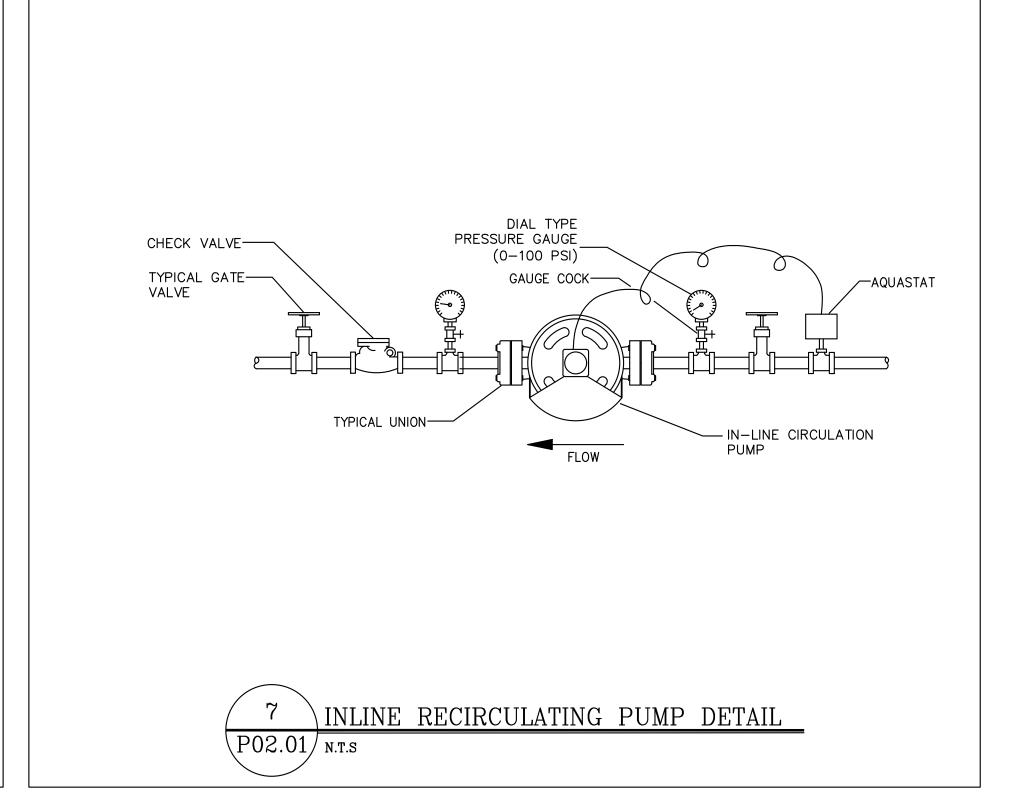


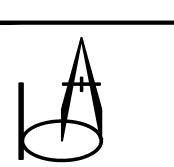












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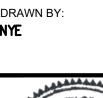
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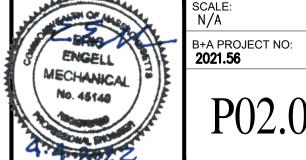
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PLUMBING DETAILS

ISSUE TYPE: REVIS
CONSTRUCTION DOCUMENTS -







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ISSUE DATE: 03/31/2022	

ISSUE TYPE:	REVISED:

PLUMBING
SCHEDULES AND RISERS

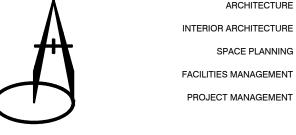
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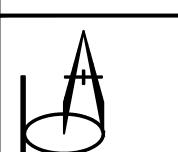


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Cambridge, MA







INTERIOR ARCHITECTURE SPACE PLANNING FACILITIES MANAGEMENT



EXISTING 1" WATER SERVICE

3/"

NEW 3" VENT LINE CONNECT TO VENT STUBOUT

RECOVERY CAP.

(GPH) @100° RISE

WEIGHT(LBS)

MANUFACTURER

KOHLER SIMPLICE

KOHLER

KOHLER

STOR. CAP

(GAL)

MANUFACTURER

& MODEL NO.

THERM-X-TROL ST-5

17.5"X 14.375"X 25.25"

22''X19.5''X6.5''

17.25"X13"X14.66"

24"X24"X10"

NOTE: NSF RATED.PROVIDE CONDENSATE COLLECTOR, DRAIN TO FLOOR DRAIN. PROVIDE WITH VACCUM RELIEF VALVE. MOUNT ON CEILING & COORDINATE EXACT LOCATION WITH OWNER IN FIELD.

(KW/MBH)

4 KW

PIPE INSULATION: PROVIDE HOT WATER PIPING WITH 1" INSULATION HAVING CONDUCTIVITY OF 0.27BTU PER INCH.

EXPANSION TANK SCHEDULE

GALLONS

TEL105-D10E WALL MOUNTED 4.5"HX 2"WX 3.938D"

BALANCING VALVE (TYP.)

-3"SAN- 3"SAN-

SANITARY RISER DIAGRAM NOT TO SCALE

HOT WATER HEATER WITH STORAGE

ELECTRIC STORAGE TYPE

WATER HEATER

(SHELF MOUNTED)

DIMENSION

DIMENSIONS- 13"(H)x8"(DIA.)

FITTINGS

TYPE

STANDARD

K-596

K-8907

CHARACTERISTICS

CONTROLS

208V/1ø/60Hz

ITEM

RCP-1

PLUMBING FIXTURE SCHEDULE

SUPPLY

STOPS,LOOSE KEY

STOPS,LOOSE KEY

SUPPLY WITH STOPS,LOOSE KEY

SUPPLY WITH STOPS,LOOSE KEY

SUPPLY WITH STOPS,LOOSE KEY

SUPPLY WITH

—EX.SAN—√

MANUFACTURER

& MODEL NO.

AO SMITH

DEL-30

QUANTITY

S/W

1-1/2"

RECIRCULATING PUMP SCHEDULE

(FT)

HW

3/4"

GPM

SERVICES

1-1/2"

CW

1/2"

3/4"

1/2"

1/2"

REMARKS

-DIMENSIONS 21"D X 30"H

-SHELF MOUNTED HEATER

-PROVIDE EXPANSION TANK (ET-1) AS PER

TOTAL HEAD | MOTOR HP | MANUFACTURER

TRAP

INTEGRAL

0.115

& MODEL NO.

GRUNDFOS UPS 15-18

REMARKS

WITH FIAT #889-CC MOP HANGER,1453-BB STRAINER,832-AA HOSE,E-77-AA GUARD & MSG 2424 WALL GUARD

ADJUSTABLE COLD CONTROL (38 DEGREES TO 46 DEGREES F), INTERNAL FILTER MOUNTING BRACKET.

SEAT TOTO SC534

1 1/4"X1/2" CAST BRASS PROVIDE OFFSET TAILPIECE AND

P-TRAP W/C.O.PLUG TRUEBRO LAV GUARD INSULATION

1 1/4"X1/2" CAST BRASS PROVIDE OFFSET TAILPIECE AND P-TRAP W/C.O.PLUG TRUEBRO LAV GUARD INSULATION

EXPANSION TANK ET-1 -

LOCATION

REFER PLANS | HOT WATER | 2

CT705ULN FLOOR MOUNTED 1.6 GAL/FLUSH

LRADQ221965 COUNTERTOP

MSBIDTG2424 MOLDED STONE

COUNTER TOP

QUANTITY | ELEMENTS |

LOCATION

QUANTITY

DESCRIPTION | MANUFACTURER | MODEL

ELKAY

ECOSTREAM

ITEM

EXPANSION TANK (ET-1)

P-2 LAVATORY

P-4 MOP SINK

P-3 PANTRY SINK

P-5 WATER COOLING

RCP-1

HOT WATER RE-CIRCULATING -PUMP W/ THERMOSTAT & THERMOMETER (TYPICAL)

— EXISTING 1" WATER LINE FOR FLUSH VALVE WC

FIRST FLOOR

GROUND FLOOR

FIRST FLOOR

GROUND FLOOR

MECHANICAL ABBREVIATIONS

NERAL	ABBREVIATIONS:			CONTROLS	ABBREVIATIONS:
MS	BUILDING MANAGEMENT SYSTEM	NIC	NOT IN CONTRACT	Н	HUMIDISTAT
OP	BOTTOM OF PIPE	No.	NUMBER	HS	HUMIDITY SENSOR
DS	CEILING DIFFUSER SUPPLY	NTS	NOT TO SCALE	HZ	HERTZ
DR	CEILING DIFFUSER RETURN	OA	OUTSIDE AIR	RH	RELATIVE HUMIDITY
FM	CUBIC FEET PER MINUTE	PD	PRESSURE DROP	S	SWITCH
:D	CONDENSATE DRAIN PIPE	PH	PHASE	SD	SMOKE DETECTOR
:P	CONDENSATE PUMP	PSI	POUNDS PER SQUARE INCH	SPD	SPEED CONTROL
В	DRY BULB TEMPERATURE	QTY	QUANTITY	S/S	START/STOP
		RTU	ROOF TOP UNIT	T TS	THERMOSTAT
IA	DIAMETER DIFFUSER	RA	RETURN AIR	15	TEMPERATURE SENSOR
IFF		REG	REGISTER		ABBREVIATIONS:
IM N	DIMENSION DOWN	RET	RETURN	ACCLL	AIR CONDITIONING UNIT
		REQD	REQUIRED	ACCU	AIR COOLED CONDENSING UNIT
G	EXHAUST GRILLE	RH	RELATIVE HUMIDITY	AHU	AIR HANDLING UNIT
A	EACH OR EXHAUST AIR	RLA	RUNNING LOAD AMPS	BB	BASE BOARD
ER	ENERGY EFFICIENCY RATIO	RLL	REFRIGERANT LIQUID LINE	CC	COOLING COIL
XIST.	EXISTING	RM	ROOM	Е	EXHAUST GRILLE
	FAHRENHEIT OR FAN	RPM	REVOLUTIONS PER MINUTE	EBB	ELECTRIC BASE BOARD
D	FIRE DAMPER (ACCESS DOOR)	RSL	REFRIGERANT SUCTION LINE	EF	EXHAUST FAN
LA	FULL LOAD AMPS	SA	SUPPLY AIR	ERV	ENERGY RECOVERY VENTILATOR
LEX	FLEXIBLE	SEER	SEASONAL EER	ET	EXPANSION TANK
	HEATING SEASONAL PERFORMANCE	SP	STATIC PRESSURE	EWH	ELECTRIC WALL HEATER
SPF	FACTOR	SPECS	SPECIFICATIONS	F	FURNACE
R	HOUR	SQ	SQUARE	FC	FAN COIL UNIT
TG	HEATING	SF	SQUARE FEET	CUIL	
Z	HERTZ	SS	STAINLESS STEEL	GUH	GAS FIRED UNIT HEATER
١	INCHES	SUP	SUPPLY	H	HUMIDIFIER
ER	INTEGRATED EER	T	TEMPERATURE	HP	HEAT PUMP
		TEFC	TOT. ENCLOSED FAN COOLED	HV	HEATING & VENTILATING UNIT
W	KILOWATT	TEMP	TEMPERATURE	RTU	ROOF TOP UNIT
	LENGTH	TSTAT	THERMOSTAT	S	SUPPLY DIFFUSER
AT	LEAVING AIR TEMPERATURE	TON	12,000 BTH	SA	SOUND ATTENUATOR
В	POUND	TOP	TOP OF PIPE	SAC	SPLIT AC UNIT
F	LINEAR FEET	TSP	TOTAL STATIC PRESSURE	SHP	SPLIT HEAT PUMP
IAX	MAXIMUM	TYP	TYPICAL	Т	TDANSEED COULE
IBH	THOUSAND BTH	V	VOLTS	и UH	TRANSFER GRILLE
ICA	MINIMUM CIRCUIT AMPS	W	WIDTH OR WATT	VIΠ	UNIT HEATER
IFR	MANUFACTURER	W/	WITH		
IIN	MINIMUM	WB	WET BULB TEMPERATURE		
I/A	NOT APPLICABLE	WG W/O	WATER GAUGE WITHOUT		
, IC	NOISE CRITERIA	••/ ∪			

BMS CONTROLS:

1. EMERSON BMS CONTROL SYSTEM IS PROVIDED THROUGH CCAM. 2. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE GANG BOX AT 48" WITH 3/4 CHASE TO CEILING SPACE FOR BMS SENSORS, FIELD VERIFIED BY CITIZENS REPRESENTATIVE. CONTRACTOR SHALL COORDINATE THE LOCATION AND PLACEMENT OF BMS PANEL BEFORE INSTALLATION. SIZE OF THE PANEL DEPENDS ON DEVICE'S

COUNT, SO IT SHALL BE VERIFIED AND LOCATED ADJACENT TO ELECTRICAL PANELS.

- 3. PANEL REQUIRES ONE DEDICATED 120 V 20 AMP CIRCUIT. 4. BMS SYSTEM REQUIRES EACH CONTROLLED DEVICE TO HAVE A HOME RUN, FROM EACH DEVICE OR ZONE, TO THE BMS PANEL; INTERRUPTING THE LINE SIDE. 5. NECESSARY CONTACTORS AND RELAYS MUST BE CONSIDERED FOR ALL ELECTRICAL HEATERS IN BMS PANELS. ALL HEATERS (EUH AND EBB) SHALL BE CONTROLLED
- THROUGH BMS CONTROL PANEL.
- 6. ON DIGITAL SYSTEMS, ALL DEVICES TO BE CONNECTED IN A DAISY CHAIN PATTERN SO THAT THE FIRST AND LAST DEVICE IN THE CHAIN HAS AN OPEN PORT. 7. ON DIGITAL SYSTEMS, CONTRACTOR SHALL NOTE AND LABEL ADDRESS AND LOCATION OF EACH DEVICE ON THE SYSTEM ONE—LINE DIAGRAMS OR SYSTEM LAYOUT
- DRAWINGS AT TIME OF INSTALLATION. 8. CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL TERMINATIONS. NO SPLICES ARE PERMITTED IN CONTROL WIRING.
- 9. POWER AND CONTROL CONDUCTORS MUST NOT SHARE THE SAME RACEWAY OR CONDUIT SENSORS IN ELECTRICAL/MECHANICAL LOCATIONS NEED TO BE VERIFIED WITH AUTHORITY HAVING JURISDICTION. REFER TO NEC 110.26.D.
- 10. VERIFY MAXIMUM CABLE LENGTHS BASED ON CONTROL SYSTEM. MANUFACTURER IS NOT RESPONSIBLE FOR SYSTEMS EXCEEDING CABLING PARAMETERS 11. LOW VOLTAGE CABLE MUST BE INSTALLED AT LEAST 12 INCHES FROM ALL LINE VOLTAGE CONDUCTORS EXCEPT TO CROSS OR MAKE TERMINATIONS. CAT. 5 CABLE MUST BE KEPT AWAY FROM ALL EMF DEVICES SUCH AS BALLASTS OR TRANSFORMERS. THERMOSTATIC CONTROLS:

- THE SUPPLY OF HEATING AND COOLING ENERGY TO EACH ZONE SHALL BE INDIVIDUALLY CONTROLLED BY THERMOSTATIC CONTROLS RESPONDING TO TEMPERATURE WITHIN THE ZONE. FOR THE PURPOSES OF SECTION 6.4.3.1, A DWELLING UNIT SHALL BE PERMITTED TO BE CONSIDERED A SINGLE ZONE. B. DEAD BAND:
- WHERE USED TO CONTROL BOTH HEATING AND COOLING, ZONE THERMOSTATIC CONTROLS SHALL BE CAPABLE OF PROVIDING A TEMPERATURE RANGE OR DEAD BAND OF AT LEAST 5°F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS SHUT OFF OR REDUCED TO A MINIMUM. EXCEPTIONS: THERMOSTATS THAT REQUIRE MANUAL CHANGEOVER BETWEEN HEATING AND COOLING MODES. C. SETBACK CONTROLS:
- HEATING SYSTEMS LOCATED IN CLIMATE ZONES 2-8 SHALL BE EQUIPPED WITH CONTROLS THAT HAVE THE CAPABILITY TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN ZONE TEMPERATURES ABOVE A HEATING SETPOINT ADJUSTABLE DOWN TO 55°F OR LOWER. COOLING SYSTEMS LOCATED IN CLIMATE ZONES 1B, 2B, AND 3B SHALL BE EQUIPPED WITH CONTROLS THAT HAVE THE CAPABILITY TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN ZONE TEMPERATURES BELOW A COOLING SETPOINT ADJUSTABLE UP TO 90°F OR HIGHER OR TO PREVENT HIGH SPACE HUMIDITY D. AUTOMATIC SHUTDOWN
- HVAC SYSTEMS SHALL BE EQUIPPED WITH AT LEAST ONE OF THE FOLLOWING:CONTROLS THAT CAN START AND STOP THE SYSTEM UNDER DIFFERENT TIME SCHEDULES FOR SEVEN DIFFERENT DAY-TYPES PER WEEK, ARE CAPABLE OF RETAINING PROGRAMMING AND TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST TEN HOURS, AND INCLUDE AN ACCESSIBLE MANUAL OVERRIDE, OR EQUIVALENT FUNCTION, THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO TWO
- SETPOINT OVERLAP RESTRICTION: WHERE HEATING AND COOLING TO A ZONE ARE CONTROLLED BY SEPARATE ZONE THERMOSTATIC CONTROLS LOCATED WITHIN THE ZONE, MEANS (SUCH AS LIMIT SWITCHES, MECHANICAL STOPS, OR, FOR DDC SYSTEMS, SOFTWARE PROGRAMMING) SHALL BE PROVIDED TO PREVENT THE HEATING SETPOINT FROM EXCEEDING THE COOLING SETPOINT MINUS ANY APPLICABLE PROPORTIONAL BAND.

SECTION 230593 - TESTING, ADJUSTING, AND BALANCING FOR HVAC

- A. TESTING, ADJUSTING, AND BALANCING FOR THE FOLLOWING:
 - 1. AIR SYSTEMS: CONSTANT-VOLUME.
- CONDENSING UNITS. 1.2 QUALITY ASSURANCE
- A. THE CONTRACTOR SHALL PROCURE THE SERVICES OF A TESTING, ADJUSTING AND BALANCING (TAB) SPECIALIST WHO SPECIALIZES IN HEATING, VENTILATION AND AIR CONDITIONING SYSTEMS. THE TAB AGENT SHALL HAVE THE FOLLOWING QUALIFICATIONS: AABC, NEBB OR TABB CERTIFIED. 1.3 EXECUTION
- A. THE TAB SPECIALIST SHALL PERFORM FLOW MEASUREMENTS OF ALL EXISTING AIR AND HYDRONIC SYSTEMS THAT ARE TO REMAIN OR TO BE INCORPORATED INTO THE STARTING OF WORK IN THE PROJECT SCOPE. A REPORT OF THESE MEASUREMENTS, INDICATING ANY AND ALL DEFICIENCIES SHALL BE SUBMITTED FOR
- B. THE TAB SPECIALIST SHALL PERFORM FLOW MEASUREMENTS OF ALL NEW AIR AND HYDRONIC SYSTEMS AS LISTED ABOVE IN THE PROJECT SCOPE. A REPORT OF THESE MEASUREMENTS, INDICATING ANY AND ALL DEFICIENCIES SHALL BE SUBMITTED FOR OWNER REVIEW.
- C. THE REPORT SHALL INDICATE A SCHEMATIC DIAGRAM INDICATING LOCATIONS OF ALL EQUIPMENT TESTED AND MEASUREMENT LOCATIONS.
- D. PRIOR TO FINAL INSPECTION OF THE WORK, THE TAB SPECIALIST SHALL BALANCE ALL SYSTEMS AS INDICATED ABOVE TO THE REQUIREMENTS OF THE DESIGN.
- E. THE CONTRACTOR SHALL HAVE FURNISH AND INSTALL ALL ADDITIONAL BALANCING EQUIPMENT, PRESSURE TAPS, GAUGES AND OTHER EQUIPMENT AS REQUIRED FOR A PROPERLY BALANCED SYSTEM AT NO ADDITIONAL COST TO THE OWNER. SUCH ADDITIONAL EQUIPMENT SHALL ADHERE IN STRICT ACCORDANCE WITH THE RESPECTIVE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- F. THE CONTRACTOR SHALL HAVE THE TESTING AND BALANCING SPECIALIST COORDINATE ALL WORK OF THIS SECTION WITH THE BUILDING MANAGER. BALANCING WORK SHALL NOT CONFLICT WITH OTHER WORK SO AS TO MAINTAIN COMPLETION WITHIN THE SPECIFIED TIME.
- G. ALL INSTRUMENTS USED FOR TAB SHALL BE MAINTAINED IN GOOD WORKING CONDITION AND ACCURATELY CALIBRATED.
- H. TOLERANCES: PLUS OR MINUS 5 PERCENT OF DESIGN VALUES.
- I. INSPECTIONS: RANDOM CHECKS BY OWNER OR ARCHITECT TO VERIFY FINAL TESTING, ADJUSTING, AND BALANCING REPORT.
- J. ADDITIONAL TESTS: RANDOM TESTS WITHIN 90 DAYS OF COMPLETING TAB TO VERIFY BALANCE CONDITIONS AND SEASONAL TESTS. END OF SECTION 230593

- ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS. AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER. PRIOR TO 22. SUCCESSFULLY PRESSURE TEST ALL REROUTED PIPING SYSTEMS. TEST SHALL BE SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE
- SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED. THIS CONTRACTOR, PRIOR TO SUBMITTING HIS BID, SHALL VISIT THE PROJECT SITE TO FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. REQUESTS FOR COMPENSATION FOR EXTRA WORK. WHICH WOULD HAVE BEEN EVIDENT BY COMPLIANCE WITH THE PREVIOUS STATEMENT, WILL NOT BE CONSIDERED. THE CONTRACTOR SHALL CONDUCT A THOROUGH FIELD INVESTIGATION TO VERIFY WORK SHOWN ON THE DRAWINGS. THE DRAWINGS REFLECT THE BEST AVAILABLE INFORMATION FROM EXISTING PLANS AND SITE INVESTIGATIONS. NOTIFY THE ARCHITECT OF ANY CONDITIONS WHICH WOULD PREVENT THE

GENERAL CONSTRUCTION NOTES

CONTRACTOR.

- INSTALLATION OF THE WORK AS SHOWN ON DRAWINGS. THE MECHANICAL PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW THE EXACT ROUTING OF SYSTEMS OR LOCATION OF COMPONENTS. THE EXACT LOCATIONS, DIMENSIONS AND ALL OTHER DETAILS OF EQUIPMENT ARE THE RESPONSIBILITY OF THIS CONTRACTOR. THIS CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE. PROVIDE ALL DUCT AND PIPE TRANSITIONS REQUIRED FOR
- THIS CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONNECTION TO EQUIPMENT. CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK. WHERE DISCREPANCIES OCCUR BETWEEN THESE DOCUMENTS AND EXISTING CONDITIONS, THE DISCREPANCY SHALL BE REPORTED TO THE OWNER
- AND/OR ENGINEER FOR EXPEDITING AND RESOLVE. 6. ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TARPS TO KEEP DUST AND DEBRIS WITHIN THE CONSTRUCTION AREA.
- CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND CONTRACT 3. ALL OPENINGS IN WALLS SHALL BE KEPT PROPERLY SEALED AT ALL TIMES,
- DUE TO STORM OR OTHER CAUSES. 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR
- CONDITIONS 10. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK. ALL OFFSETS IN PIPING AND DUCTS TO AVOID OBSTRUCTIONS SHALL BE PROVIDED AT NO COST TO THE OWNER. 11. CONTRACTOR SHALL REFER TO THE COMPLETE SET OF CONTRACT DOCUMENTS

PROTECTION OF PROPERTIES AGAINST FIRE, THEFT, AND ENVIRONMENTAL

- INCLUDING SPECIFICATIONS AND OTHER TRADES FOR A FULL UNDERSTANDING OF ALL WORK REQUIRED. WHERE USED THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
- 13. PROVIDE ALL REQUIRED RIGGING TO ACCOMMODATE THE REMOVAL & INSTALLATION OF ALL EQUIPMENT. 14. PROVIDE ACCESS PANELS FOR ALL CONCEALED DAMPERS, VALVES, AND EQUIPMENT.
- 15. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT. REGISTERS, DIFFUSERS, AND GRILLES. 17. ALL PIPING SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS IN A NEAT AND WORKMANLIKE MANNER AND BE SUPPORTED AS REQUIRED BY CODES.
- PIPING SHALL BE SET UP AND DOWN AND OFFSET AS REQUIRED TO SUIT FIELD CONDITIONS. DIELECTRIC COUPLINGS SHALL BE USED WHERE DISSIMILAR METALS ARE JOINED. 18. IF A SECTION PIPE IS NOT LABELED FOR SIZE, THEN THE LARGER SIZE INDICATED ON THE DRAWINGS SHALL PREVAIL. SIZE OF DUCT RUN-OUTS TO DIFFUSERS SHALL EQUAL DIFFUSER NECK SIZE UNLESS OTHERWISE NOTED.
- 19. PROVIDE ALL NECESSARY TEMPORARY OR PERMANENT CAPS OR PLUGS FOR PIPING. DO NOT LEAVE PIPING OPEN ENDED. 20. PROVIDE CONDENSATE PUMPS THROUGHOUT CONDENSATE DRAINAGE SYSTEM AS REQUIRED TO PROPERLY REMOVE CONDENSATE. PROVIDE A PER PUMP LINE-ITEM ALLOWANCE.

BY THE OWNER PRIOR TO COMMENCING WITH WORK.

REMOVED FROM THE BUILDING IMMEDIATELY.

PERFORMED BY A CERTIFIED NEBB

COMPONENTS MADE OBSOLETE BY THIS PROJECT

ALL SHUT DOWNS OF EXISTING SYSTEMS SHALL BE SCHEDULED AND APPROVED

NO DUCTWORK, PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED,

OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE OWNER AND/OR ENGINEER

TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF

SHUTDOWN, REMOVAL, OR DISCONNECTION, 1 WEEK NOTICE MUST BE GIVEN TO

THE OWNER INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE

5. USE OF THE OWNER'S ELEVATORS AND BUILDING CORRIDORS FOR HANDLING

OF THE OWNER'S AND REMOVED EQUIPMENT AND MATERIALS SHALL BE AT THE

DIRECTION OF THE OWNER AND SHALL BE COORDINATED WITH HIS OPERATIONS.

DISPOSED OF AS PER OWNER'S INSTRUCTIONS, UNLESS INDICATED OTHERWISE.

. DISCONNECT AND REMOVE ALL EXISTING EQUIPMENT, PIPING, DUCTWORK,

. PRIOR TO RENOVATION, CONTRACTOR TO RECORD ALL SUPPLY & RETURN MAIN

FLUES, REGISTERS, SUPPORTS, HANGERS, AND ALL OTHER MECHANICAL

AIRFLOWS & SUBMIT A COPY TO THE ENGINEER. ALL READINGS SHALL BE

ALL ITEMS WHICH ARE NOT TO BE STORED ON SITE BY OWNERS SHALL BE

. ALL ITEMS REMOVED SHALL BECOME PROPERTY OF THE OWNER AND SHALL BE

PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD.

ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY

- ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO 21. REFRIGERANT PIPE SIZING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS. LENGTH OF PIPE, ELEVATION CHANGE AND EQUIPMENT ORIENTATION SHALL BE TAKEN INTO ACCOUNT.
- PERFORMED AT TWICE SYSTEM OPERATING PRESSURES, REPAIR AND RETEST AS REQUIRED UNTIL SYSTEMS PROVE TIGHT. CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE 23. ALL CONCEALED ELECTRICAL CONNECTIONS SHALL BE HARD WIRED. PLUGS
- SHALL NOT BE USED AS A DISCONNECTING MEANS IN CONCEALED LOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO 24. CONTRACTOR SHALL PROVIDE ALL TEMPERATURE CONTROLS INCLUDING WIRING, TUBING, AND THERMOSTATS (WITH LOCKING COVERS) AND ALL MISCELLANEOUS APPURTENANCES TO MEET THE INTENT OF THESE DOCUMENTS. THERMOSTATS SHALL BE INSTALLED 48" AFF. 25. BEFORE PROCEEDING WITH ANY WORK IN OCCUPIED OR USED AREAS, THE
 - CONTRACTOR SHALL APPLY TO OWNER FOR PERMISSION TO ENTER SUCH AREAS. THE CONTRACTOR IS OBLIGED TO PERFORM HIS WORK ONLY AT THE TIMES DESIGNATED BY OWNER. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THE WORK PERFORMED AFTER HOURS OR ON OFF-DAYS WITHOUT PRIOR WRITTEN APPROVAL.
 - 26. THE WORK IN THE BUILDING SHALL BE DONE WHEN AND AS DIRECTED. AND IN A MANNER SATISFACTORY TO THE OWNER. THE WORK SHALL BE PERFORMED SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND DISTURBANCE TO THE PRESENT OCCUPANTS. 27. THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE PREDICATED ON THE
 - PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS. WHEN SO DIRECTED, HOWEVER, THE CONTRACTOR SHALL INSTALL WORK IN OVERTIME AND THE ADDITIONAL COST TO BE CHARGED THEREFORE SHALL BE ONLY THE "PREMIUM" PORTION OF THE WAGES PAID. 28. CONTRACTOR SHALL ASCERTAIN THE APPROPRIATE METHOD FOR BRINGING THE UNITS INTO AND THROUGH THE BUILDING TO POSITION UNIT IN LOCATION SHOWN
 - ON THE PLANS. WHERE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH RESTRICTIVE SPACES. COORDINATE WITH BUILDING OWNER APPROPRIATE TIMES OF DAY SUCH EQUIPMENT MAY BE MOVED THROUGH ALL AREAS. 29. REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE PERFORMANCE OF THE GENERAL WORK. ALL EXISTING CONDITIONS
- CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND INCLUDE ALL CHANGES IN MAKING UP THE WORK DEBRIS CAUSED BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS 30. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND APPROVED MANNER. RESTORE EXISTING WORK DISTURBED WHILE INSTALLING NEW WORK TO
- ACCEPTABLE CONDITION AS DETERMINED BY ARCHITECT. EXCEPT WHEN BEING WORKED ON TO PRECLUDE THE POSSIBILITY OF FLOODING 31. SUPPORT ALL PIPING FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OR SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING. INSERTS SHALL BE STEEL, SLOTTED TYPE AND FACTORY PAINTED. SINGLE ROD SHALL BE SIMILAR TO GRINNELL FIG. 281. MULTI-ROD SHALL BE SIMILAR TO FEE & MASON SERIES 9000 WITH END CAPS AND CLOSURE STRIPS. MAXIMUM LOADING INCLUDING PIPES, DUCTWORK CONTENTS AND COVERING SHALL NOT EXCEED 75% OF RATED INSERT CAPABILITY. WHEN SUPPORTING FROM BUILDING
 - USE BEAM CLAMPS IN APPROVED MANNER. 32. PROVIDE ALL NECESSARY FLASHING AND COUNTER FLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THIS BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF PIPES, CONDUIT AND EQUIPMENT. PROVIDE EQUIPMENT CURBS AND DUNNAGE STEEL AS REQUIRED.
 - 33. SEAL OPENINGS AROUND PIPING THROUGH PARTITIONS, WALLS AND FLOORS (NOT IN SHAFTS) WITH MINERAL WOOL OR OTHER NONCOMBUSTIBLE MATERIAL (FIBERGLASS INSULATION IS NOT ACCEPTABLE). 34. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION. MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT
- BE MADE WITHOUT APPROVAL. 16. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF 35. HVAC CONTRACTOR TO FURNISH ACCESS LOCATION REQUIREMENTS TO GENERAL CONTRACTOR. ACCESS TILE IDENTIFICATION: PROVIDE BUTTONS, TABS, AND MARKERS TO IDENTIFY LOCATION OF CONCEALED VALVES, DAMPERS AND EQUIPMENT.

CONTRACTOR. COMPARE NEW EQUIPMENT VALUES & ALERT DISCREPANCIES FOR

BALANCED TO PRE-CONSTRUCTION VALUES OR ADJUSTED VALUES BASED ON

7. ALL NEW, RELOCATED, OR EXISTING EQUIPMENT AFFECTED BY THIS SCOPE OF

8. PROVIDE ALL REQUIRED CUTTING AND PATCHING AS REQUIRED TO COMPLETE THE

EXISTING ROOF CUTTING, FLASHING, SEALING, ETC. TO BE ACCOMPLISHED BY A

10. EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW

11. THE FIRE PROOFING OF THE EXISTING STRUCTURE IS NOT TO BE REMOVED FOR

INSTALLATION OF NEW MECHANICAL SYSTEM. PATCH ALL SURFACES TO MATCH AND

ROOFING CONTRACTOR APPROVED BY THE EXISTING ROOF MANUFACTURER AND

INSTALLED IN ACCORDANCE WITH ROOF MANUFACTURER'S RECOMMENDATIONS SO

SYSTEMS, EXCEPT WHERE INDICATED AS SUCH ON THE DRAWINGS. ALL MATERIALS

THE INSTALLATION OF HANGERS, SUPPORTS AND DUCTWORK ETC. IF FIRE

PROOFING IS DAMAGED, IT SHALL BE REPAIRED AT THE EXPENSE OF THE TRADE.

WORK SHALL BE REBALANCED BEFORE BEING PLACED IN SERVICE.

PRE-CONSTRUCTION TESTING ENGINEERING FEEDBACK.

AND EQUIPMENT LISTED AS NEW MUST BE NEW.

MAINTAIN ALL FIRE RATINGS.

AS NOT TO VOID ROOF WARRANTY.

ENGINEER FEEDBACK. AT THE END OF THE PROJECT EXISTING SYSTEMS SHALL BE

PIPING INSULATION

- A. INSULATE ALL PIPING IN ACCORDANCE WITH INSULATION SCHEDULE EXCEPT AS OTHERWISE NOTED. B. PIPING, VALVES AND FITTINGS TO BE INSULATED:
- 1) LOW TEMPERATURE PIPING SYSTEMS 0 TO 60 DEG F INCLUDING: a.CONDENSATE DRAIN PIPING.

INSULATION SCHEDULE - PIPING THICKNESS MATERIAL FINISH SIZE

REFRIGERANT PIPING 1.5" P-6

1.0" CONDENSER DRAIN PIPING P-6 (IF RUNNING THROUGH EXTERIOR WALL)

INSULATION THAT ARE EXPOSED TO WEATHER OR SUBJECT TO MECHANICAL DAMAGE. THE PROTECTIVE COVERING SHALL a. ARMA-CHEK SILVER" MULTI-LAYER LAMINATE OF ALUMINUM, COATED WITH A UV PROTECTIVE FILM AND BACKED WITH A FLEXIBLE PVC FILM. THE MATERIAL SHOULD BE ADHERED

2)PROTECTIVE COVERINGS SHALL BE INSTALLED ON AREAS OF

WITH ARMAFLEX 520 ADHESIVE OR EQUIVALENT, AND ALL

JOINS AND SEAMS SECURED WITH "ARMA—CHEK SILVER

TAPE". INSTALLATION SHALL BE IN ALL CASES TO THE

MANUFACTURER'S RECOMMENDATIONS. b.HIGH DENSITY RUBBER CLADDING OF THE "ARMA-CHECK R" TYPE BONDED USING AN APPROPRIATE FULL CONTACT ADHESIVE WITH A MINIMUM 50 MM OVERLAP AT ALL BUTT JOINTS AND LONGITUDINAL SEAMS. A WEATHER-PROOF MASTIC SEALANT SHALL BE APPLIED OVER ALL SEAMS AND JOINTS. ALL MATERIAL SHALL E OVERLAPPED AND STAGGERED IN SUCH A WAY AS TO ENSURE A WATERSHED IS ALWAYS PROVIDED. INSTALLATION SHALL BE IN ALL CASES TO THE MANUFACTURER'S RECOMMENDATIONS. ALL EXCESS ADHESIVE VISIBLE ON THE SURFACE OF THE COMPLETED ASSEMBLY SHALL BE REMOVED USING AN APPROPRIATE CLEANING MATERIAL.

c.METAL CLADDING, COMPRISED OF COATED SHEET METAL, WITH ALL EXTERNAL JOINTS AND FIXING MADE WEATHER-PROOF WITH SILICONE SEALANT.

C. MATERIAL: 1) TYPE P-1: MINIMUM 4 LB DENSITY MOLDED FIBERGLASS, MAXIMUM 0.24 K-FACTOR AT 75 DEG F MEAN TEMPERATURE WITH FACTORY-APPLIED FIRE-RETARDANT FOIL-SKRIM-KRAFT FACING. ALL SERVICE JACKET. SIMILAR TO OWENS-CORNING 650 ASJ.

2) TYPE P-3: MINIMUM 4 LB DENSITY MOLDED FIBERGLASS FITTING, MAXIMUM 0.23 K-FACTOR AT 75 DEG F MEAN TEMPERATURE SIMILAR TO EPOLUX HAMFAB MOLDED FITTINGS. 3) TYPE P-4: MINIMUM 1 LB DENSITY FIBERGLASS FITTING INSERTS, MAXIMUM 0.27 K-FACTOR AT 75 DEG F MEAN TEMPERATURE SIMILAR TO MANVILLE HI-LO TEMP INSULATION

4) TYPE P-6: MINIMUM 6 LB MOLDED FOAMED PLASTIC. MAXIMUM 0.27 K-FACTOR AT 75 DEG F MEAN TEMPERATURE. MAXIMUM 0.17 PERMEANCE. SIMILAR TO ARMSTRONG ARMAFLEX II.

1) TYPE F-1: FITTING COVER, MOLDED WHITE PVC JACKET, UL CLASS 1, MAXIMUM PERMEANCE 0.05 SIMILAR TO MANVILLE

2) TYPE F-2: WHITE VAPOR BARRIER COATING WITH 10X10 OR 20X20 MESH WHITE GLASS, POLYESTER OR NYLON CLOTH REINFORCING MEMBRANE, MINIMUM 31 MIL DRY FILM THICKNESS, SIMILAR TO FOSTER TITE-FIT, UL LABEL.

3) TYPE F-4: ALUMINUM JACKETING WITH MINIMUM 0.016 IN. WALL THICKNESS AND LONGITUDINAL JOINTS WITH LOCK SEAMS. 4) TYPE F-6: WHITE FINISHING AND INSULATING CEMENT APPLIED OVER HEXAGONAL WIRE MESH. CEMENT SIMILAR TO KEENE SUPERSLICK.

E. INSTALLATION:

1) BEFORE APPLYING INSULATION ALL PRESSURE AND LEAK TESTS SHALL BE COMPLETED AND APPROVED. 2) ALL INSULATION SHALL BE BUTTED FIRMLY TOGETHER. PROVIDE 2 IN. LAMP STRIPS AT ALL SEAMS SECURED WITH ADHESIVE. USE VAPOR BARRIER TAPE AND VAPORSEAL ADHESIVE WHERE REQUIRED. STAPLES NOT PERMITTED. REFRIGERANT PIPING INSULATION SHALL HAVE MITERED FITTINGS. 3) ALL INSULATION AND VAPOR BARRIERS SHALL BE CONTINUOUS

PASSING THROUGH SLEEVES, HANGERS, ETC., OR OTHER OPENINGS. PROVIDE SADDLES OR SHIELDS FOR PROTECTION AT ALL HANGINGS. 4) INSULATION FOR STRAINERS OR OTHER FITTINGS OR

ACCESSORIES REQUIRING SERVICING OR INSPECTION SHALL

HAVE INSULATION REMOVABLE AND REPLACEABLE WITHOUT

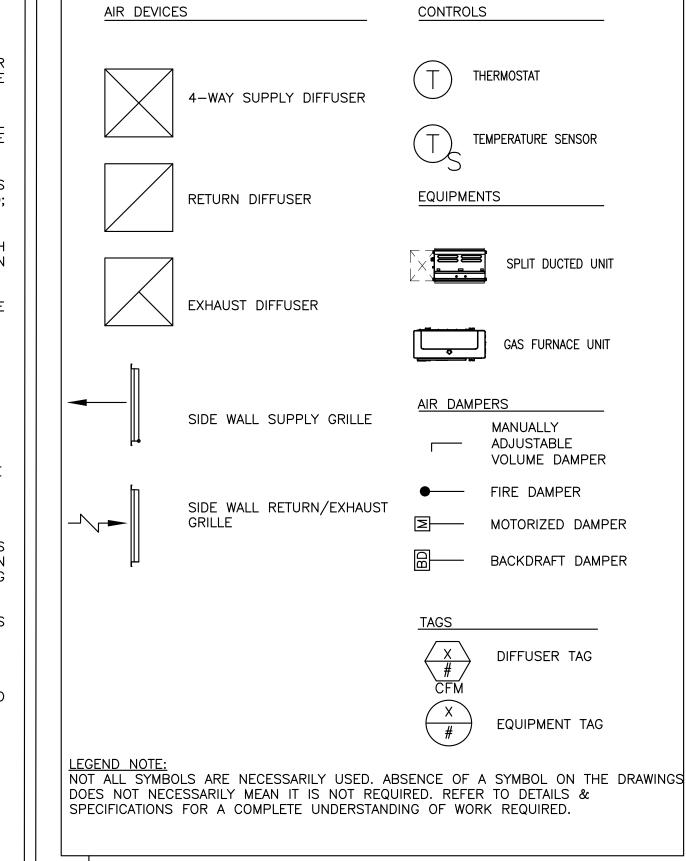
MASSACHUSETTS STATE BUILDING DEPARTMENT NOTES

ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF NINTH EDITION OF MASSACHUSETTS STATE BUILDING CODE 780; BASE CODE ICC IBC 2015, AND ALL RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE.

- ALL HEATING AND COOLING LOADS CALCULATED PER ASHRAE/ACCA 183.
- VENTILATION FOR ALL AREA SHALL COMPLY WITH MASSACHUSETTS STATE BUILDING CODE 780; BASE CODE ICC IMC 2015, CHAPTER 4.
- AS PER C408.2.5 OF MASSACHUSETTS STATE BUILDING CODE 780; BASE CODE ICC IEC 2018, CONSTRUCTION DOCUMENT SHALL REQUIRE THAT. WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER.
- AS PER C408.3.2 OF MASSACHUSETTS STATE BUILDING CODE 780; BASE CODE ICC IEC 2018, CONSTRUCTION DOCUMENT SHALL REQUIRE THAT AN OPERATING MANUAL AND A MAINTAINED MANUAL BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A PROFESSIONAL ENGINEER TO PROVIDE THE REQUIRED SPECIAL INSPECTIONS AND TESTS.
- TESTS WILL BE CONDUCTED UNDER DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF SUCH MECHANICAL SYSTEMS. THE TESTS WILL SHOW COMPLIANCE WITH MASSACHUSETTS STATE BUILDING CODE 780; BASE CODE ICC IBC 2015, REQUIREMENTS AS OUTLINES IN SECTION.
- THE LICENSED PROFESSIONAL ENGINEER, ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF SUCH MECHANICAL SYSTEMS AND CONDUCTING SUCH TESTS WILL FILE DOCUMENTATION AND REPORTS OF TESTS THAT THE SYSTEM COMPLIES WITH THE CONSTRUCTION DOCUMENTS AND APPLICABLE LAWS.
- TESTS OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF MASSACHUSETTS STATE BUILDING CODE 780; BASE CODE ICC IMC 2015 CHAPTER 4 AND CHAPTER 5: A. MECHANICAL VENTILATION - SECTION 403. B. SMOKE CONTROL SYSTEMS - SECTION 513.
- 8. THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC. SHALL COMPLY WITH THE REFERENCED CODE OR STANDARD:
- A. STANDARDS OF HEATING MASSACHUSETTS STATE BUILDING CODE 780; BASE CODE ICC IMC 2015 B. DUCT CONSTRUCTION AND INSTALLATION-SECTION 603 OF MASSACHUSETTS STATE BUILDING CODE 780; BASE CODE ICC IMC 2015. AIR INTAKES, EXHAUSTS AND RELIEF-SECTION 401 OF MASSACHUSETTS STATE BUILDING CODE 780; BASE CODE ICC IMC 2015.
- AIR FILTERS -SECTION 605 OF MASSACHUSETTS STATE BUILDING CODE 780; BASE CODE ICC IMC 2015.
- E. MANUAL AND AUTOMATIC FIRE AND SMOKE CONTROLS FOR AIR DISTRIBUTION SYSTEMS -SECTION 513 OF MASSACHUSETTS STATE BUILDING CODE 780; BASE CODE
-). MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 68 DEG. FAHRENHEIT.

12. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE—RATED WALL AND SMOKE WALL CONSTRUCTION AND LOCATION.

- 10. A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE VENTILATION SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL OCCUPANCY OF THE STRUCTURE AS REQUIRED BY MASSACHUSETTS STATE BUILDING CODE 780; BASE CODE ICC IMC 2015 CHAPTER 4 SECTION 403.3. HVAC SYSTEM SHALL BE BALANCED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING STANDARDS AS REQUIRED BY MASSACHUSETTS STATE BUILDING CODE 780; BASE CODE ICC IMC 2015 SECTION 408.2.2.
- SMOKE DETECTION SYSTEMS SHALL BE INSTALLED AND SEQUENCED TO FOLLOW CONTROLS OPERATIONS WITH THE REQUIREMENTS OF SECTION 606 MASSACHUSETTS STATE BUILDING CODE 780; BASE CODE ICC IMC 2015, TO CLOSE DAMPERS AND AUTOMATICALLY STOP THE FAN.
- 13. THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.
- 14. INDOOR DUCT AND PLENUM INSULATION SCHEDULE A. CONCEALED, RECTANGULAR, ROUND AND FLAT-OVAL, SUPPLY-RETURN, OUTDOOR AND EXHAUST AIR DUCT AND AIR PLENUM INSULATION: B. FLEXIBLE ELASTOMERIC, MINERAL-FIBER BLANKET, MINERAL FIBER BOARD OR POLYOLEFIN WITH MINIMUM INSTALLED THERMAL RESISTANCE AS FOLLOWS: UNCONDITIONED SPACES WITHIN BUILDING: R-6 WITHIN BUILDING ENVELOPE ASSEMBLY: R-12 OUTSIDE OF BUILDING
- 15. A COMMISSIONING PLAN SHALL DEVELOPED BY A LICENSED DESIGN PROFESSIONAL, MECHANICAL ENGINEER OR APPROVED AGENCY.
- 16. A PRELIMINARY REPORT OF COMMISSIONING TEST PROCEDURES AND RESULTS SHALL BE COMPLETED AND CERTIFIED BY THE LICENSED DESIGN PROFESSIONAL, ELECTRICAL ENGINEER, MECHANICAL ENGINEER OR APPROVED AGENCY AND PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT AS PER MASSACHUSETTS STATE BUILDING CODE 780; BASE CODE ICC IEC 2018, C408.2.4
- 7. MECHANICAL SYSTEMS SHALL BE COMMISSIONED PER MASSACHUSETTS STATE BUILDING CODE 780; BASE CODE ICC IEC 2018 C403.2.2, C408.2.1, C408.2.5 FINAL COMMISSIONING REPORT SHALL BE DUE WITHIN 90 DAYS OF RECEIPT OF CERTIFICATE OF OCCUPANCY.





REVISED:

Cambridge, MA

ARCHITECTURE

SPACE PLANNING

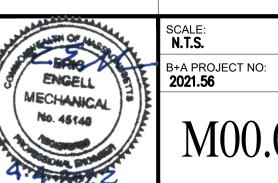
INTERIOR ARCHITECTURE

FACILITIES MANAGEMENT

PROJECT MANAGEMENT

MECHANICAL LEGENDS & NOTES

CONSTRUCTION DOCUMENTS -03/31/2022 DRAWN BY:



KEY NOTES: CD TO NEAREST FLOOR DRAIN W/ AIR GAP FITTING. COORDINATE W/PLUMBING CONTRACTOR.

- PROVIDE HORIZONTAL SLOPE IN THE DIRECTION OF DISCHARGE OF NOT LESS THAN 1/8 UNIT VERTICAL IN 12 UNITS HORIZONTAL.
- ELECTRIC BASEBOARD AND AC UNIT SHALL HAVE NECESSARY COMPATIBILITY TO COMMUNICATE WITH BMS. COORDINATE WITH BMS CONTRACTOR FOR CONTROLS.
- COORDINATE FINAL LOCATION OF THERMOSTAT WITH ARCHITECT.
- 5 LOUVERS SHALL BE CONNECTED TO THE EXISTING ARCHITECTURAL LOUVERS.
- 6 CONTRACTOR TO BE FIELD VERIFY AND CONNECT TO EXISTING BASE BUILDING EXHAUST AIR NETWORK.

GENERAL NOTES:

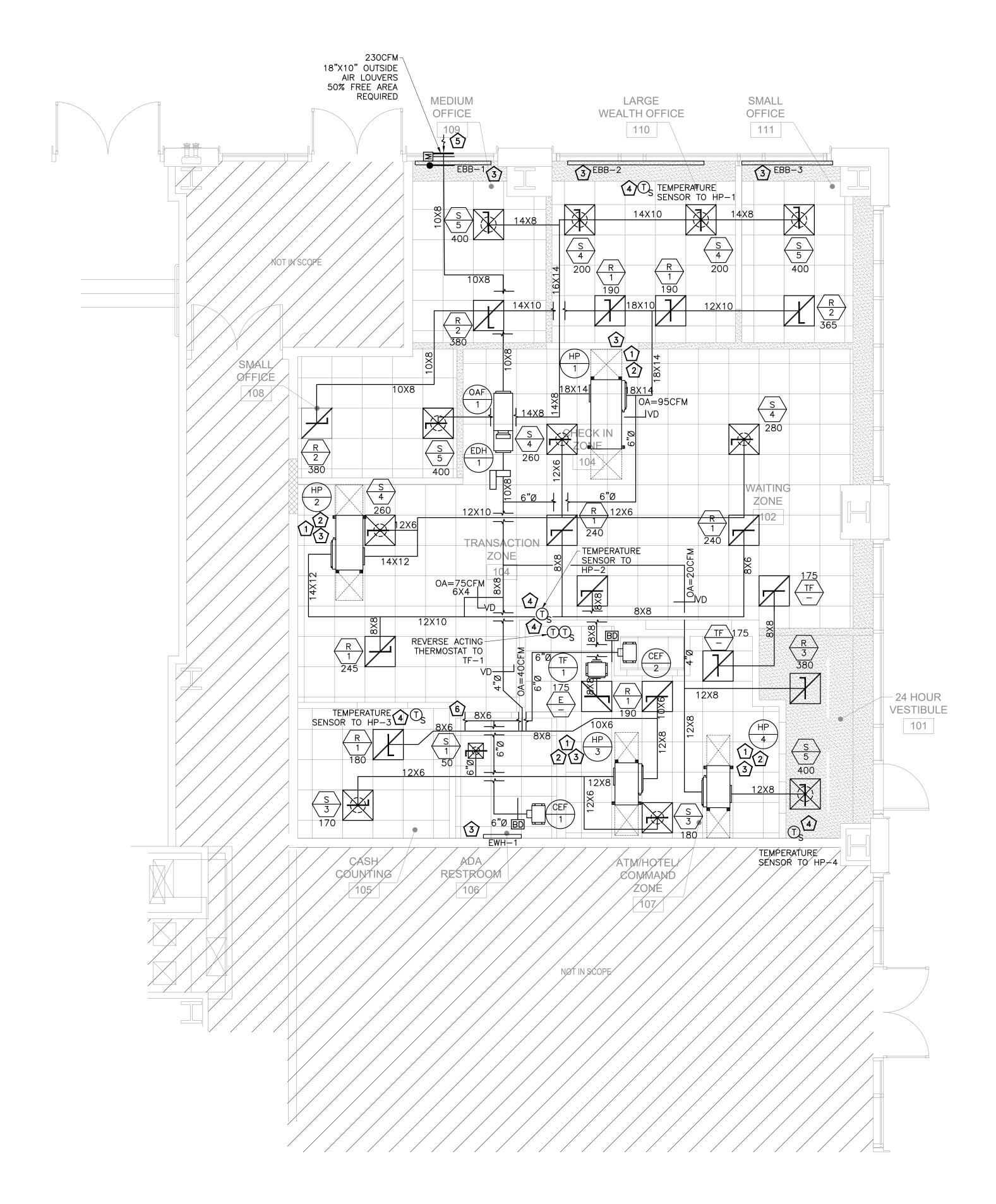
- PROVIDE NECESSARY PROTECTIVE DEVICES WHERE REQUIRED AND IN STRICT ACCORDANCE WITH OSHA AND ICRA REGULATIONS.
 AVOID FREE DUST MOVEMENT AND DIRT MIGRATING TO OCCUPIED AREAS OF THE BUILDING. BLANK OFF ANY RETURN AIR GRILLES/ DUCTS IN THE WORK AREA. PROVIDE TEMPORARY EXHAUST FANS, DUCTED DIRECTLY TO OUTDOORS, TO MAINTAIN
- 3. KEEP ALL ADJOINING AREAS ADJACENT TO THE WORK AREAS CLEAN AND FREE OF DEBRIS.
- 4. REPAIR/ REPLACE EXISTING EQUIPMENT/ MATERIALS NOT SCHEDULED OR NOTED TO BE DEMOLISHED BUT BECOME DAMAGED DURING THE PROGRESS OF THE WORK. MAKE ANY AND ALL SUCH REPAIRS, REPLACEMENTS, MODIFICATIONS TO RESTORE THE DAMAGED ITEMS TO THEIR ORIGINAL CONDITIONS AT THE TIME OF DAMAGE, TO THE SATISFACTION OF AND AT NO ADDITIONAL COST TO THE OWNER.
- 5. COORDINATE CUTTING, PATCHING OF EXISTING ROOF, WALLS, CEILINGS, AND FLOORS AFFECTED BY MECHANICAL DEMOLITION WITH G.C.
- 6. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE GANG BOX AT 48" WITH 3/4 CHASE TO CEILING SPACE FOR BMS SENSORS, FIELD VERIFIED BY CITIZENS REPRESENTATIVE. CONTRACTOR SHALL COORDINATE THE LOCATION AND PLACEMENT OF BMS PANEL BEFORE INSTALLATION. SIZE OF THE PANEL DEPENDS ON DEVICE'S COUNT, SO IT SHALL BE VERIFIED AND LOCATED ADJACENT TO ELECTRICAL PANELS.
- 7. PANEL REQUIRES ONE DEDICATED 120 V 20 AMP CIRCUIT.

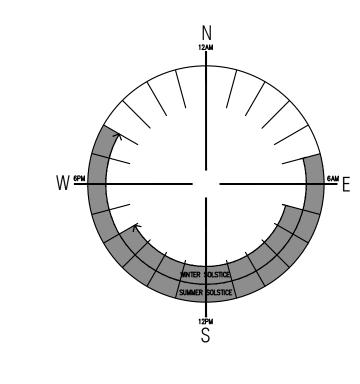
NEGATIVÉ PRESSURE WITHIN THE WORK AREA.

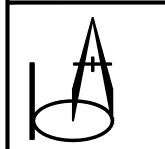
- 8. BMS SYSTEM REQUIRES EACH CONTROLLED DEVICE TO HAVE A HOME RUN, FROM EACH DEVICE OR ZONE, TO THE BMS PANEL; INTERRUPTING THE LINE SIDE.
- 9. NECESSARY CONTRACTORS AND RELAYS MUST BE CONSIDERED FOR ALL ELECTRICAL HEATERS IN BMS PANELS. ALL HEATERS (EWH AND EBB) SHALL BE CONTROLLED THROUGH BMS CONTROL PANEL.
- 10. COORDINATE ALL DUCTWORK CROSSING, DIFFUSER, CONNECTIONS, AC UNITS CLEARANCES, PIPING CONNECTIONS WITH SITE CONDITIONS. ADJUSTMENTS TO BE DONE AS/IF REQUIRED.

MECHANICAL GENERAL NOTES:

EXACT LOCATION OF TEMPERATURE SENSORS TO BE COORDINATED IN FIELD. COORDINATE WITH ELECTRICAL/CONTROLS CONTRACTOR.
ALL HVAC EQUIPMENT SHALL BE CONTROLLED VIA EMERSON/CCAM. PROVIDE ALL NECESSARY EQUIPMENT FOR BMS TIE—IN. COORDINATE WITH ELECTRICAL/CONTROLS CONTRACTOR.







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BISBANO + ASSOCIATES, INC.

RISING SUN MILLS | 188 VALLEY STREET | PROVIDENCE, RI | 02909

VOICE 401.404.8310 FAX 401.404.8311 WWW.BISBANO.COM



KENDALL SQUARE

610 Main Street Cambridge, MA

MECHANICAL FLOOR PLAN

ISSUE TYPE: REVIS
CONSTRUCTION DOCUMENTS -

ISSUE DATE: 03/31/2022 DRAWN BY: NYE

> SCALE: 1/4" = 1'-0" B+A PROJECT NO: 2021.56

	WATER SOURCE HEAT PUMP (BASED ON CARRIER)																	
		NOMINAL	TOTAL	O.A.	ESP	CDM	EED	000		С	OOLING DATA	1	LIEATING MOLL	Е	LECTRICAL DATA			WEIGHT
TAG	MODEL	CAPACITY		CFM	(IN. WG.)	GPM	EER	COP	EDB°F	EWB°F	TOTAL MBH	SENSIBLE MBH	HEATING MBH	MCA (A)	MOCP (A)	V/PH/HZ	NOTES	(LBS.)
HP-1	50PCH048	4-TONS	1600	95	0.6	12	14.3	4.7	80	67	50.7	36.6	59.3	23	35	208-230/1/60	1 TO 6	274
HP-2	50PCH024	2-TONS	1040	75	0.6	6	14.9	5.1	80	67	26.2	21.7	28.4	12	15	208-230/1/60	1 TO 6	181
HP-3	50PCH012	1-TONS	400	40	0.6	3	12.2	4.3	80	67	11.9	9.4	13.5	7	15	208-230/1/60	1 TO 6	105
HP-4	50PCH012	1-TONS	400	20	0.6	3	12.2	4.3	80	67	11.9	9.4	13.5	7	15	208-230/1/60	1 TO 6	105

1. PROVIDE UNIT MOUNTED DISCONNECT SWITCH.

6. PROVIDE SECONDARY DRAIN PAN WITH WATER LEAK BUG SENSOR.

2. PROVIDE SINGLE POINT CONNECTION. 3. UNITS SHALL BE COMPATIBLE TO CITIZENS BMS CONTROLS. CONTROLS PROVIDED BY CITIZEN'S MECHANICAL CONTRACTOR. (JCL/ALC/EMERSON).

4. COOLING CAPACITIES ARE ASSUMED AT SUMMER EWT=80°F. HEATING CAPACITIES ARE ASSUMED AT WINTER EWT=68°F.

5. CONTRACTOR TO FIELD VERIFY IF ALL HEAT PUMPS RECEIVE MENTIONED WATER FLOW. PROVIDE BOOSTER PUMP IF REQUIRED.

	ELECTRIC BASEBOARD HEATER SCHEDULE (BASED ON STELPRO)													
SYMBOL	MODEL	KW	QTY.	HEATING CAPACITY (BHU/H)	LENGTH (FT.)	LOCATION	ELECTRICAL DATA	WEIGHT	NOTEO					
				, ,	,		V/PH/HZ	(LBS)	NOTES					
EBB-1	AALUX315128	1.28	1	4266	5	SEE PLAN	208/1/60	16.8	1,2,3.					
EBB-2	AALUX327258	2.50	1	8532	9	SEE PLAN	208/1/60	30.1	1,2,3.					
EBB-3	AALUX318158	1.50	1	5119	6	SEE PLAN	208/1/60	20.1	1,2,3.					
EWH-1	ASORL 1002WC	0.75	1	2560	2.5	RESTROOM	208/1/60	11.5	1,2,3.					

NOTES: PROVIDE JUNCTION BOX.

2. PROVIDE DISCONNECT AND SPACE MOUNTED TEMPERATURE SENSOR (EMERSON/CCAM). COORDINATE WITH ELECTRICAL CONTRACTOR. 3. BASEBOARD HEATER, EWH SHALL BE CONTROLLED VIA EMERSON/CCAM. PROVIDE ALL NECESSARY EQUIPMENT FOR BMS TIE-IN.

	ELECTRIC DUCT HEATER SCHEDULE (BASED ON GREENHECK)													
SYMBOL	MODEL	USE	HEATER TYPE	DIMENSIONS	HEATING CAPACITY	ELECTR	RICAL DATA							
						AMPS	VOLTAGE							
EDH-1	IDHB	SUPPLY	FLANGE	10"X8"X17"	5.0 kW	24.04	208/1/60							

1. INSTALL ELECTRIC DUCT HEATER AS PER MANUFACTURER'S RECOMMENDATION.

2. PROVIDE T-STAT AND WIRE TO HEATER. 3. PROVIDE DISCONNECT SWITCH, VAPOR BARRIER, DUCT TIGHT BOX AND FAN INTERLOCK SWITCH.
4. INTERLOCK WITH OAF-1.

SYMBOL	MODEL	TYPE	THROW	CFM	SIZE	NOTES
S-1	PLQ	LAY-IN	RADIAL	0-100	6Ø	3,4,5
S-2	PLQ	LAY-IN	RADIAL	0-100	6Ø	1,3,4
S-3	PLQ	LAY-IN	RADIAL	100-175	8Ø	1,3,4
S-4	PLQ	LAY-IN	RADIAL	176-275	10Ø	1,3,4
S-5	PLQ	LAY-IN	RADIAL	275-600	12Ø	1,3,4
R-1	PLQ	LAY-IN	-	0-250	8Ø	1,3,4
R-2	PLQ	LAY-IN	-	251-380	10Ø	1,3,4
R-3	PLQ	LAY-IN	-	601-900	15Ø	1,3,4
TF/E	PLQ	LAY-IN	-	0-250	8Ø	-

AIR DEVICE SCHEDULE (BASED ON KRUEGER)

1. BASED ON 24x24 FACE SIZE.

* - S-SUPPLY, R-RETURN, E-EXHAUST TF-TRANSFER GRILLE *** - CFM

2. PROVIDE WITH T-BAR MOUNTING FRAME. 3. PROVIDE WITH LAY-IN PANEL.

4. RGD COLOR SHALL BE BRITISH WHITE, #44.

5. BASED ON 12x12 FACE SIZE.

6. COORDINATE DIFFUSER/GRILLE TYPE WITH CEILING TYPE PRIOR TO ORDER.

	FAN SCHEDULE (BASED ON GREENHECK)														
0)(1)(1)(1)	MODEL	T) (DE	DDI) /E	0514	FOD	EANI	мото	R DATA	NOTEO						
SYMBOL	MODEL	TYPE	DRIVE	CFM	ESP (IN. WG.)	FAN RPM	POWER	V/PH/HZ	NOTES						
CEF-1	SP-A390-VG	CEILING	DIRECT	70	0.5	700	14W	115/1/60	1,2,3,4,5,6,7						
CEF-2	SP-A50-90-VG	CEILING	DIRECT	50	0.5	808	6W	115/1/60	1,2,5,6,7						
OAF-1	SQ-95-VG	INLINE	DIRECT	230	0.75	1235	¹ / ₄ HP	115/1/60	1,5,6,7						
TF-1	CSP-A250	INLINE	DIRECT	175	0.54	1000	60W	115/1/60	1,5,6,7						

NOTES / ACCESSORIES:

1. PROVIDE WITH DISCONNECT. REFER TO ELECTRICAL PLANS FOR RATINGS & COORDINATE WITH E.C.

2. PROVIDE WITH GRAVITY BACKDRAFT DAMPER.
3. BATHROOM CEILING EXHAUST FANS SHALL OPERATE WITH BATHROOM LIGHTING OCCUPANCY SENSORS.
4. PROVIDE REVERSE ACTING TEMPERATURE SENSOR.

5. VARIABLE SPEED CONTROL. 6. AMCA SEAL & UL CERTIFIED.

7. THERMAL OVERLOAD PROTECTION.



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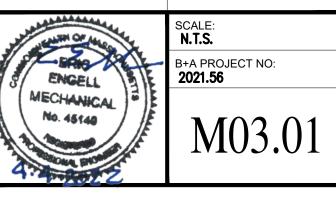


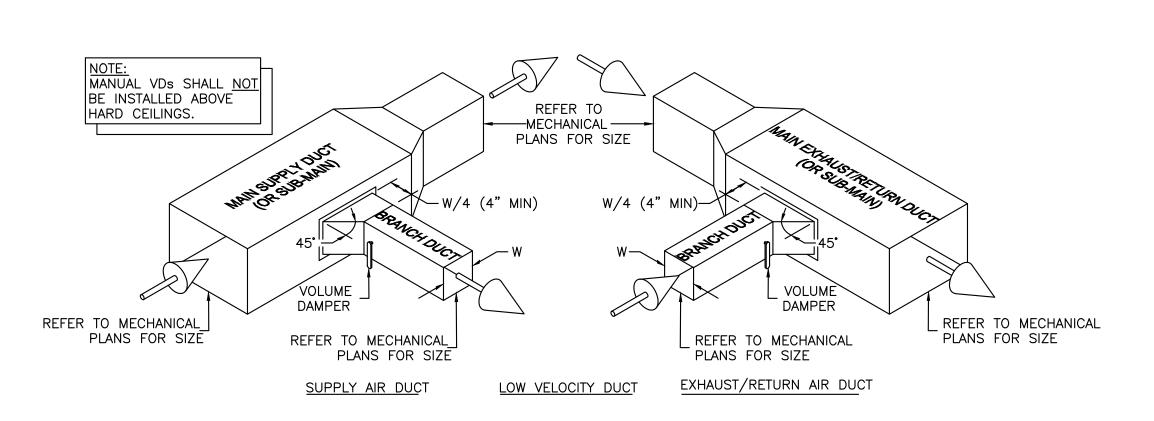
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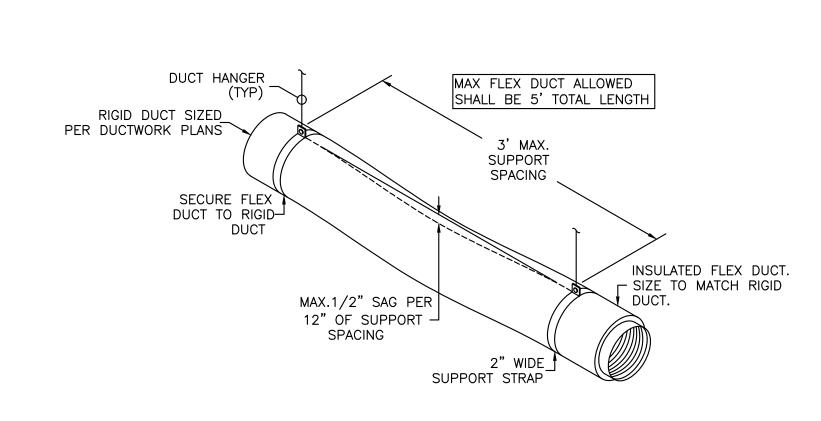
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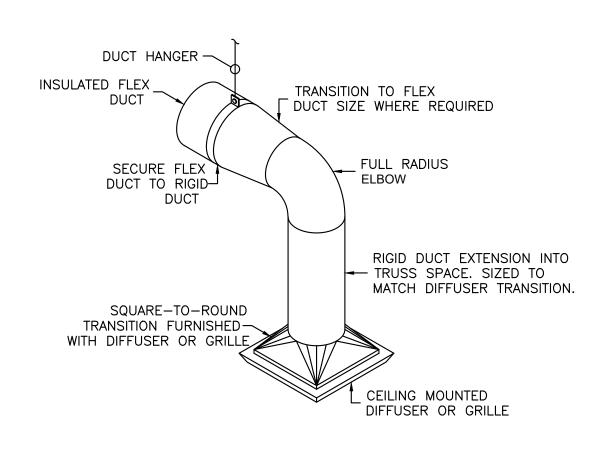
MECHANICAL SCHEDULES

ISSUE TYPE: REVISED: -



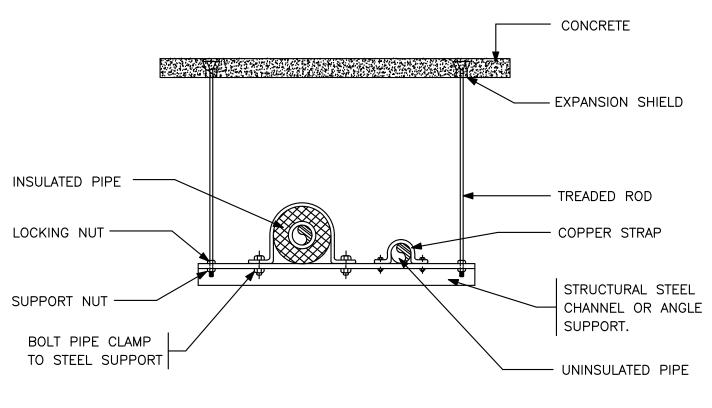






BRANCH DUCT CONNECTIONS

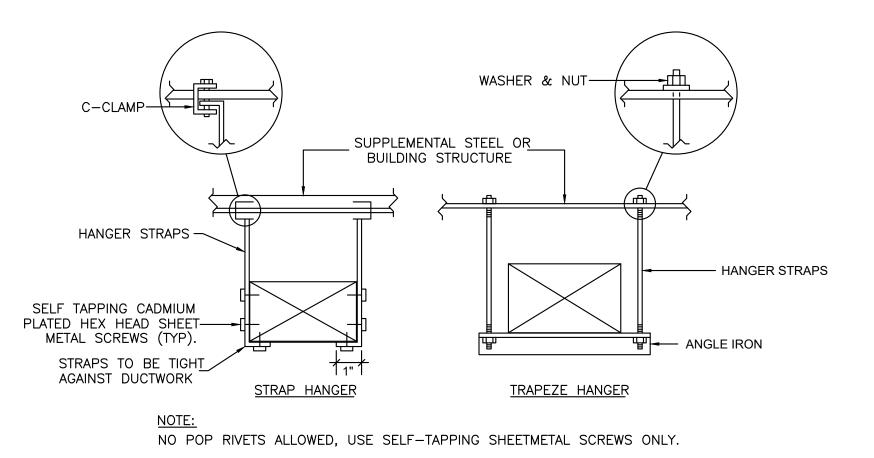
<u>flex duct</u> support detail diffuser connection detail



TYPICAL TRAPEZE HANGER SUPPORT

PIPE HA	NGER	ROD	AND	SPACII	NG SC	HEDU	LE					
NOMINAL PIPE OR TUBE SIZE — INCHES	5/8	3/4	7/8	1	1 1/2	2	2 1/2	I	_	_	ı	I
HANGER ROD SIZES INCHES	3/8	3/8	3/8	3/8	3/8	3/8	3/8	-	_	_	-	-
MAX. SPACING BETWEEN PIPE SUPPORTS — FEET	_	6	_	7	9	10	11	_	_	_	_	_
MAX. SPACING BETWEEN CU. TUBE SUPPORTS-FT.	6	6	6	6	8	9	10	_	_	_	_	-
NOTES: TRAPEZE HANGER SPACING SHALL BE BASED ON SPACING OF SMALLEST PIPE ON TRAPEZE. TRAPEZE SHALL BE DESIGNED WITH A FACTOR OF SAFETY OF 5 FOR CENTER OF SPAN CONCENTRATED LOAD.												

REFRIGERANT PIPING HANGING DETAIL



HANGER SIZES* MAXIMUM SPACING MAX. SIDE HANGER 30" 1"x18" GAUGE STRAP NONE REQUIRED 10'-0" 1-1/2"x1-1/2"x1/

2"x2"x1/8"

2"x2"x1/8"

2"x2"x1/8"

8'-0"

8'-0"

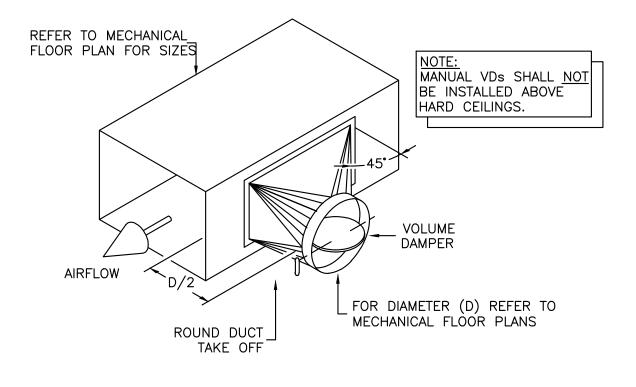
8'-0"

* FOR RECTANGULAR DUCTS

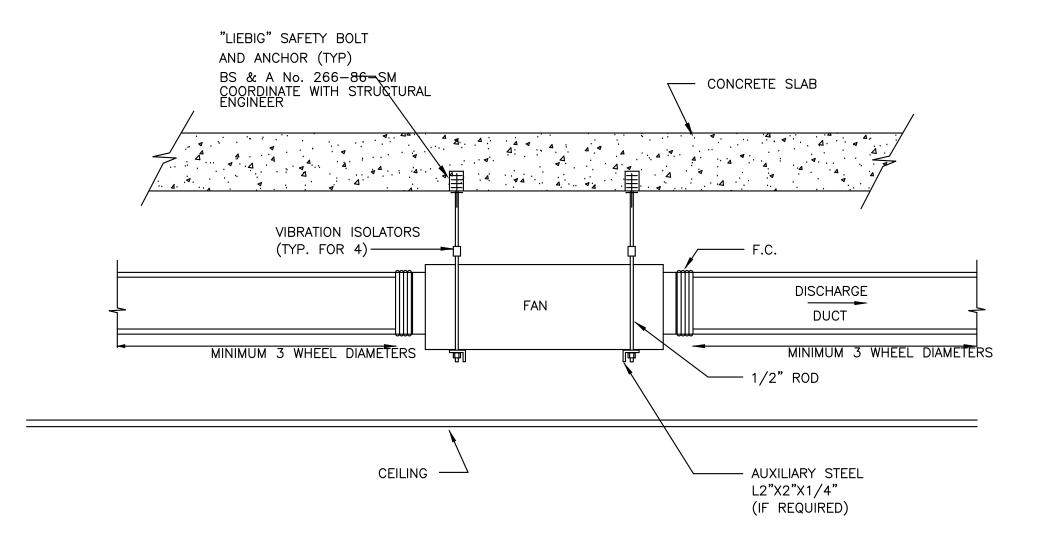
5/16" ROD

3/8" ROD

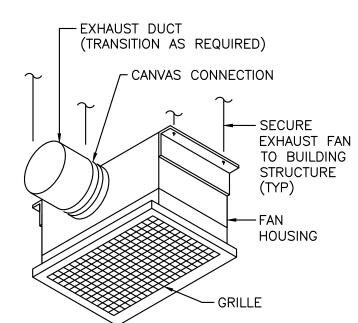
DUCT HANGER DETAIL



ROUND DUCT TAKE OFF DETAIL



_1" CONDENSATE DRAIN AIR GAP FITTING FIG. 3950-0125+0150, BY JR SMITH PROVIDE FLOW CONTROL
TRAP PRIMER, MODEL: SIOUX CHIEF 695 OR EQUIVALENT CONNECT TO SEWER PIPING LOCATE AIR GAP FITTING AND PIPING WITHIN SINK/LAVATORY ENCLOSURE.

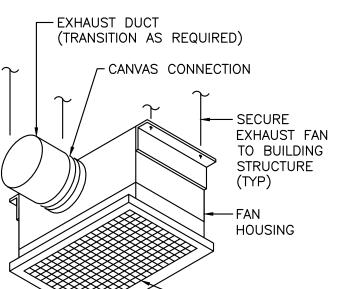


1. DUCT LENGTH TO BE MINIMUM THREE WHEEL DIAMETER ON DISCHARGE AND INLET.

INLINE FAN SUPPORT DETAIL

AIR GAP FITTING DETAIL

CEILING EXHAUST FAN DETAIL



B+A PROJECT NO: **2021.56** M04.01

ISSUE TYPE: REVISED: CONSTRUCTION DOCUMENTS -

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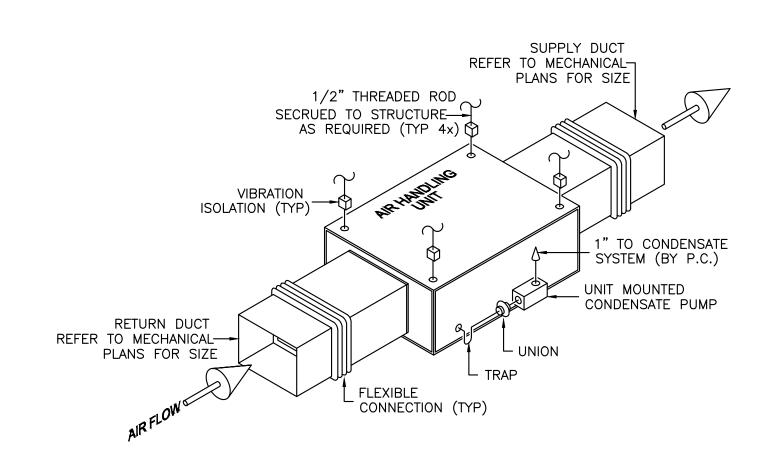
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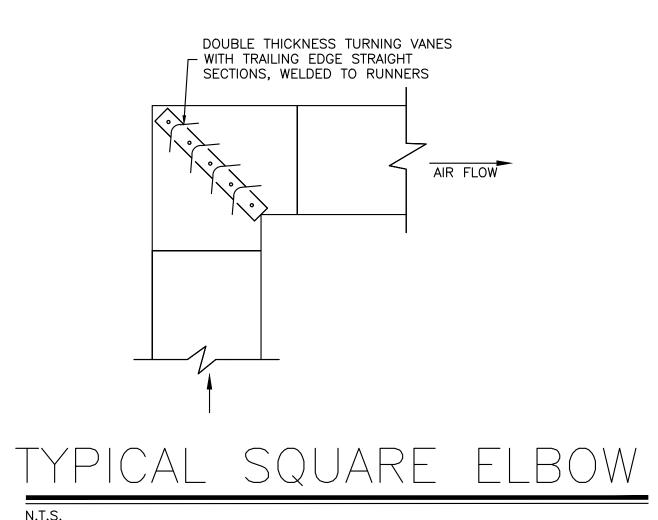
MECHANICAL

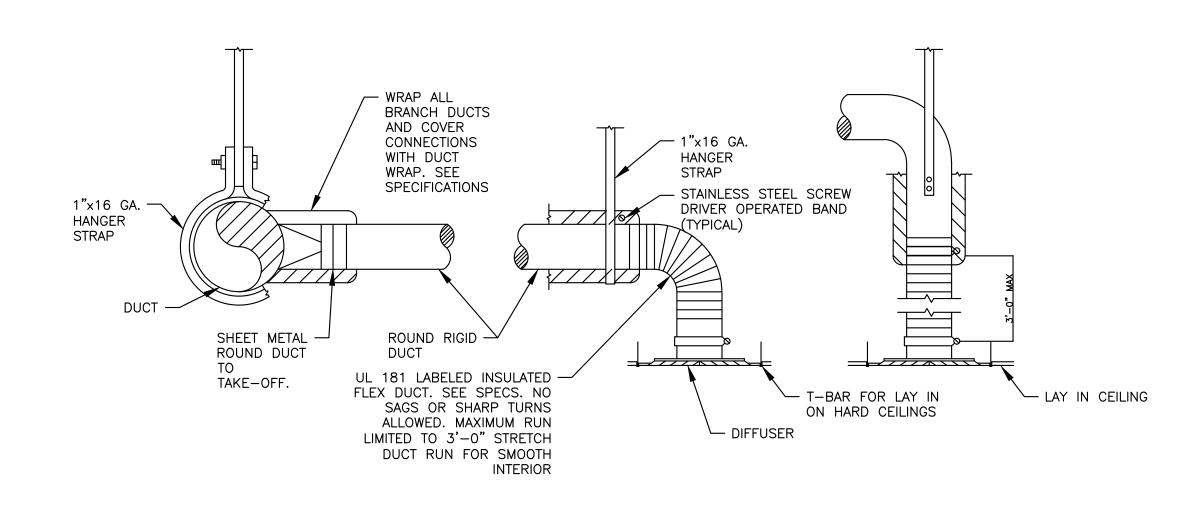
DETAILS (1 OF 2)

SPACE PLANNING

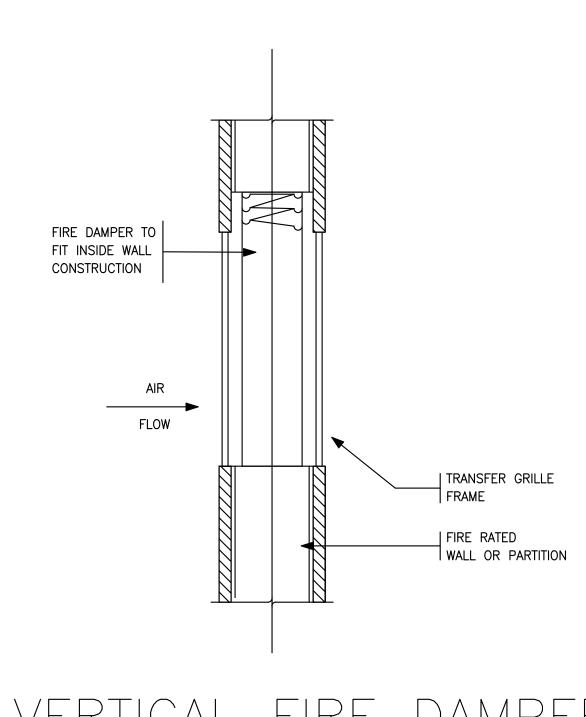


HANGING AIR HANDLING UNIT DETAIL





TYPICAL DIFFUSER CONNECTION DETAIL



VERTICAL FIRE DAMPER

N.T.S.

N.T.S.



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KENDALL SQUARE

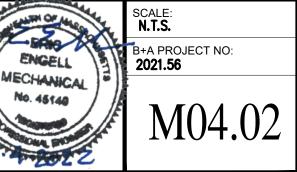
610 Main Street Cambridge, MA 02139

MECHANICAL DETAILS (2 OF 2)

ISSUE TYPE:
CONSTRUCTION DOCUMENTS

ISSUE DATE:





LEGEND * MOUNTING HEIGHTS SHALL BE AS INDICATED UNLESS SHOWN OTHERWISE ON ELECTRICAL DRAWINGS OR ARCHITECTURAL ELEVATIONS * ALL SYMBOLS MAY NOT BE SHOWN ON PLANS

RACEWAYS AND WIRING

SINGLE PHASE HOMERUNS TO PANELBOARD. "P4" DENOTES PANEL, "1,3,5"
DENOTES CIRCUIT NUMBERS, [(3) 20A, 1P CIRCUITS] NUMBER OF SLASH MARKS
DENOTES NUMBER OF #12AWG CONDUCTORS IN MINIMUM 3/4"C. NO SLASH
MARKS INDICATE 2#12 & 1#12G-3/4"C UNLESS INDICATED OTHERWISE.

P4-2
HILP
CIRCUIT NUMBER, 20 AMP 3 POLE C/B. NUMBER OF SLASH MARKS DENOTES
NUMBER OF #12AWG CONDUCTORS IN MINIMUM 3/4"C.

NOTES:

1. GREEN GROUND CONDUCTOR NOT INDICATED BUT SHALL BE INCLUDED IN EACH RACEWAY. SIZE SHALL BE #12AWG UNLESS INDICATED OTHERWISE.

—— E —— 2#10,#10G EMERGENCY ONLY WIRING

— J — J HOOKS 3'-0" ON CENTER

—— P —— PRIMARY CONDUIT DUCT BANK

--- S --- SECONDARY CONDUIT DUCT BANK

— T — TELEPHONE SERVICE CONDUIT DUCT BANK

— CATV — CABLE TELEVISION CONDUIT DUCT BANK

SWITCH	HES & CONTROLS LEGEND
SYMBOL	DESCRIPTION
\$ _{SLV}	ON/OFF SWITCH
\$ _{SLVD}	SWITCH, DIMMER
\$ _{SOS}	OCCUPANCY SENSOR, WALL
(OSC)	OCCUPANCY SENSOR, CEILING
\$ _{SOSD}	OCCUPANCY SENSOR, WALL, DIMMER
NL	NIGHT LIGHT CIRCUIT
PP	POWER/RELAY PACK DIMMING EXTERNAL FAULT PROTECTION
DP1	POWER/RELAY PACK OCCUPANCY CONTROLLED DIMMING EXTERNAL FAULT PROTECTION
DP2	POWER/RELAY PACK OCCUPANCY CONTROLLED DIMMING EXTERNAL FAULT PROTECTION
TC-1/ TC-2	TIME CLOCK

POWER/DATA LEGEND

→ WALL MOUNTED DUPLEX

WALL MOUNTED DUPLEX, ISOLATED GROUND

| WALL MOUNTED DUPLEX, GFI

WALL MOUNTED DUPLEX, DEDICATED

WALL MOUNTED DUPLEX, SEPARATE

★ WALL MOUNTED FOURPLEX
★ WALL MOUNTED FOURPLEX, ISOLATED GROUND

"IG

₩ALL MOUNTED FOURPLEX, DEDICATED

₩ WALL MOUNTED FOURPLEX, DEDICATED, HALF

WALL MOUNTED OUTLET, SPECIAL

▲ WALL MOUNTED TELE/DATA RECEPTACLE, SINGLE DROP

WALL MOUNTED TELE/DATA RECEPTACLE, DUAL DROP

△ WALL MOUNTED PHONE RECEPTACLE

FLUSH FLOOR MOUNTED TELE/DATA, SINGLE DROP

FLUSH FLOOR MOUNTED TELE/DATA, DUAL DROP

FLUSH FLOOR MOUNTED DUPLEX

FLUSH FLOOR MOUNTED DUPLEX, DEDICATED

J FLUSH WALL MOUNTED POWER JUNCTION BOX WITH HARDWIRE CONNECTION

HDMI RECEPTACLE WITH HARDWIRE CONNECTION TO SPECIFIED MONITOR

<u>MISCELLANEOUS</u>

JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT

TIME CLOCK

MECHANICAL EQUIPMENT

TAG ABBREVIATIONS

DENOTES EQUIPMENT TYPE

DENOTES UNIT NUMBER

ACC AIR-COOLED CONDENSER

AHU AIR HANDLING UNIT

B BOILER

CH CHILLER

CUH CABINET UNIT HEATER

EBB ELECTRIC BASEBOARD

EF EXHAUST FAN

EH EXHAUST HOOD

EWH ELECTRIC WALL HEATER

FC FAN COIL

HP HEAT PUMP

MAU MAKE-UP AIR UNIT

P PUMP

RTU ROOF TOP UNIT

UH UNIT HEATER

VAV VARIABLE AIR VOLUME BOX

WH ELECTRIC WATER HEATER

POWER DISTRIBUTION EQUIPMENT

DISTRIBUTION PANEL

PANELBOARD, SURFACE MOUNTED

PANELBOARD, FLUSH MOUNTED

JUNCTION BOX, SIZED PER NEC

SP MANUAL MOTOR STARTER WITH THERMAL OVERLOAD.
"P" DENOTES PILOT LIGHT

30/20/3

30 AMP/3 POLE SWITCH, 20 AMP FUSES

GROUND ROD, REFER TO PLANS FOR EXACT SIZE

FUSED DISCONNECT SWITCH: "30/20/3" DENOTES

ABBREVIATIONS

3R NEMA 3R RATING
4X NEMA 4X RATING

A AMPERES

AFF ABOVE FINISHED FLOOR

AFG ABOVE FINISHED GRADE

AIC AMPERE INTERRUPTING CAPACITY

ARCH

ARCHITECT

ATS AUTOMATIC TRANSFER SWITCH

AWG AMERICAN WIRE GAUGE
C CONDUIT

C/B CIRCUIT BREAKER

C.T. CURRENT TRANSFORMER

CAT CATALOG

CKT CIRCUIT

CU COPPER

DWG DRAWING

E WIRED ON EMERGENCY CIRCUIT
EC ELECTRICAL CONTRACTOR

EMERGENCY

TD EXISTING TO BE DEMOLISHED

TR EXISTING TO REMAIN

ETRL EXISTING TO BE RELOCATED

ETRP EXISTING TO BE REPLACED

G GROUND

GC GENERAL CONTRACTOR

GFI GROUND FAULT INTERRUPTER

HVAC HEATING, VENTILATION, AIR
CONDITIONING CONTRACTOR

IG ISOLATED GROUND

KCMIL ONE THOUSAND CIRCULAR MILS

KVA KILOVOLT-AMPERES

KVAR KILOVOLT-AMPERES REACTIVE

KW KILOWATTS

MCB MAIN CIRCUIT BREAKER

MCC MOTOR CONTROL CENTER

MLO MAIN LUGS ONLY

NC NORMALLY CLOSED

NEC NATIONAL ELECTRICAL CODE

NL NIGHT LIGHT

NO NORMALLY OPEN

NTS NOT TO SCALE

Ø PHASE

P POLE
PC PLUMBING CONTRACTOR
P.T. POTENTIAL TRANSFORMER

PVC POLYVINYL CHLORIDE

RL NEW LOCATION OF RELOCATED DEVICE

SM SURFACE MOUNT

ST SHUNT TRIP
T/D TEL/DATA
TEL TELEPHONE

UG UNDERGROUND
UNO UNLESS NOTED OTHERWISE

TRANSFORMER

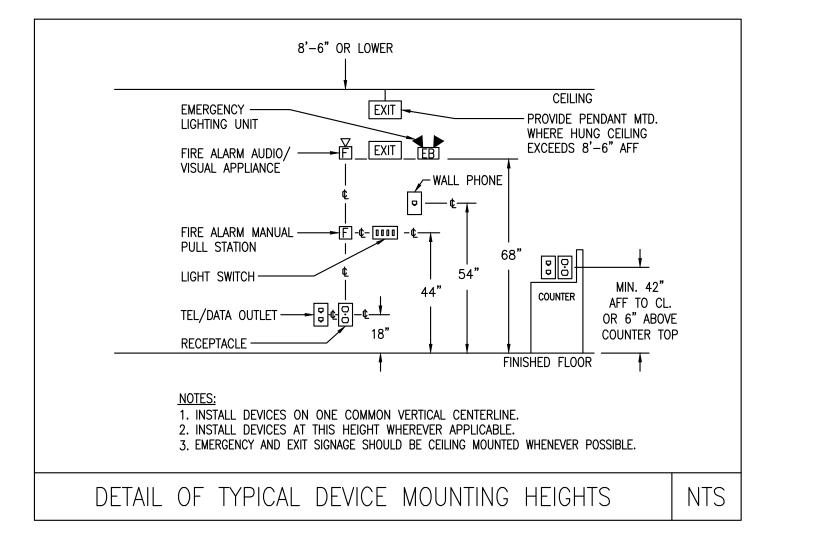
V VOLT
VIF VERIFY IN FIELD

W WATT
WP WEATHERPROOF

BRANCH CIRCUIT WIRING NOTES:

- 1. WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS
- 2. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- 3. ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.
- 4. ALTHOUGH ALL BRANCH CIRCUIT WIRING AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- A GREEN GROUNDING CONDUCTOR SHALL BE RUN WITH ALL CIRCUITS. VERIFY CONDUIT SIZE TO ENSURE IT CAN ACCOMMODATE ALL PHASE, NEUTRAL AND GROUND CONDUCTORS.
- 6. PROVIDE A NEUTRAL CONDUCTOR TO ALL NEW LIGHTING SWITCH BOXES PER NEC ARTICLE 404.2.
- 7. ALL 15A AND 20A, 125V RECEPTACLES IN NON-DWELLING TYPE OCCUPANCIES SHALL BE GFCI PROTECTED PER NEC ARTICLE 210.8(B).
- 8. WHERE EXISTING SWITCHES AND RECEPTACLES ARE INDICATED TO REMAIN.
 CONTRACTOR SHALL REPLACE SAID DEVICE(S) AND DEVICE PLATE(S) WITH NEW TO
 MATCH THE NEW CONSTRUCTION. WHERE THEY ARE INDICATED AS RELOCATED,
 EXTEND BRANCH CIRCUIT WIRING TO NEW LOCATION AND PROVIDE NEW DEVICE AND
 DEVICE PLATE TO MATCH NEW CONSTRUCTION.
- 9. ALL SELF CONTAINED EMERGENCY LIGHTING UNITS AND EXIT LIGHTING SHALL BE CONNECTED TO THE NEAREST UNSWITCHED LIGHTING CIRCUIT IN THE BUILDING WITH 2 #12, #12G, 3/4" CONDUIT.
- 10. LABEL ALL OUTLETS WITH CIRCUIT NUMBERS.
- 11. ALL FIRE & LIFE SAFETY FIXTURES TO BE WHITE WITH RED LETTERING UNLESS LOCAL CODE DICTATES OTHERWISE. INFORM ARCHITECT OF SWITCH IF REQUIRED.
- 12. GENERAL CONTRACTOR TO COORDINATE WITH CITIZENS PROJECT MANAGER ON SCOPE OF WORK RELATIVE TO SECURITY ELEMENTS INCLUDING BUT NOT LIMITED
- TO, CABLING, CONNECTION POINTS, GENERAL REQUIREMENTS, ETC.

 13. CONTROL FOR ALL EXTERIOR LIGHTING, SIGNAGE AND ILLUMINATED AWNINGS TO BE CONNECTED TO CITIZENS' BUILDING MANAGEMENT SYSTEM (BMS).





ARCHITECTURE
INTERIOR ARCHITECTURE
SPACE PLANNING
FACILITIES MANAGEMENT
PROJECT MANAGEMENT

BISBANO + ASSOCIATES, INC.
RISING SUN MILLS | 188 VALLEY STREET | PROVIDENCE, RI | 02909
VOICE 401.404.8310 FAX 401.404.8311 WWW.BISBANO.COM



KENDALL SQUARE
610 Main Street
Cambridge, MA

ELECTRICAL LEGEND

& NOTES

ISSUE TYPE: REVISOR CONSTRUCTION DOCUMENTS -

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ELECTRICAL LEGEND, SCHEDULES & NOTES

ELECTRICAL SPECIFICATIONS <u>PART 1 – GENERAL</u>

- 1.01 <u>GENERAL REQUIREMENTS</u>
- A. THESE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO SERVE JOINTLY AS A BASIS UPON WHICH THE CONTRACTOR SHALL SUBMIT A PRICE FOR MATERIAL AND LABOR PROVISIONS.
- B. IT IS NOT INTENDED THAT THE PLANS OR SPECIFICATION SHOW OR STATE EVERY DETAILED REQUIREMENT OF THE WORK, BUT RATHER THAT THEY FURNISH ADEQUATE INFORMATION FOR AN EXPERIENCED CONTRACTOR TO PROVIDE A COMPLETELY ACCEPTABLE INSTALLATION. THE GENERAL CONDITIONS FORM A PART OF THESE SPECIFICATIONS WHETHER ATTACHED HERETO OR NOT. SHALL BE CAREFULLY EXAMINED BEFORE SUBMITTING A PROPOSAL. WHERE GENERAL CONDITIONS CLAUSES ARE REPEATED IN THIS SECTION, IT SHALL BE UNDERSTOOD AS CALLING SPECIAL ATTENTION TO THEM, OR AS A FURTHER QUALIFICATION, AND SHALL NOT BE ASSUMED AS OMITTING ANY OTHER CLAUSES. NO GENERAL CONDITIONS REFERRING TO THE WORK INCLUDED HEREIN SHALL BE CONSIDERED AS WAIVED UNLESS SPECIFICALLY STATED HEREIN.
- C. BEFORE SUBMITTING PROPOSAL, EXAMINE ALL PLANS RELATING TO THIS WORK, VERIFY ALL GOVERNING CONDITIONS AT THE SITE, BECOME FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK REQUIRED AND ITS RELATION TO THE WORK OF OTHER TRADES. SUBMISSION OF A COST PROPOSAL (BID) WILL BE JUDGED AS EVIDENCE THAT THE SITE EXAMINATION HAS BEEN MADE. NO CONSIDERATION WILL BE GRANTED FOR ANY ALLEGED MISUNDERSTANDING OF THE MATERIALS TO BE FURNISHED FOR WORK TO BE DONE. IT BEING UNDERSTOOD THAT THE SUBMISSION OF A PROPOSAL IS AN AGREEMENT TO ALL CONDITIONS REFERRED TO HEREIN OR INDICATED ON THE PLANS.
- D. PROPOSAL MUST INCLUDE EVERYTHING REQUIRED TO PROVIDE A COMPLETE INSTALLATION AS CONTEMPLATED IN A SPECIFICATIONS AND PLANS, WHETHER SPECIFICALLY SHOWN OR SPECIFIED OR NOT. INCLUDED ARE LABOR, MATERIALS, EQUIPMENT, LIGHTS, TOOLS, SCAFFOLDING, ETC. NECESSARY TO COMPLETE INSTALLATION OF EVERYTHING DESCRIBED, SHOWN OR REASONABLY IMPLIED.
- E. ANY DISCREPANCIES BETWEEN THESE SPECIFICATIONS AND THE ACCOMPANYING PLANS, OR THESE SPECIFICATIONS AND PLANS AND THE SPECIFICATIONS OF OTHER TRADES, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE SUBMISSION OF THE BID. FAILURE TO COMPLY WITH THE ABOVE SHALL ALLOW THE ARCHITECT TO MAKE A FINAL AND BINDING DECISION AT A LATER DATE AND NO ALLOWANCE WILL BE GIVEN IF THE MORE EXPENSIVE OF THE ITEM IN QUESTION IS SELECTED.
- F. THE WORK CALLED FOR IN THESE PLANS AND SPECIFICATIONS SHALL BE COORDINATED WITH THE STRUCTURE, WORK OF ALL RELATED TRADES, AND SHALL BE SO ARRANGED THAT THERE WILL BE NO DELAY IN THE PROPER INSTALLATION AND COMPLETION OF ANY PART OF EACH RESPECTIVE WORK. WHEREIN IT MAY BE INTERRELATED WITH THIS CONTRACT ALL WORK CAN PROCEED IN ITS NATURAL SEQUENCE WITHOUT UNNECESSARY DELAY. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL COST AND DELAYS IN THE WORK RESULTING FROM SUBSTITUTION UNDER THIS DIVISION: INCLUDING, BUT NOT LIMITED TO, ANY CHANGES, INDECISION, INSTALLATION OR THE WORK OF OTHER
- G. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC (EXCEPT WHERE DIMENSIONED) AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEM AND WORK. FOLLOW ARCHITECTURAL, STRUCTURAL, AND MANUFACTURER'S SHOP DRAWINGS FOR GREATER ACCURACY. CONSULT ENGINEER IN CASE OF DOUBT OR CONFLICT, UNLESS, NOTED, FIXED DIMENSIONS ARE BASED ON THE PRODUCT OF ONE MANUFACTURER, VERIFY DIMENSIONS WITH THE SHOP DRAWINGS OF THE MATERIAL ACTUALLY APPROVED OR PURCHASED.
- H. EXACT LOCATION OF ALL EQUIPMENT, PANELS, PULL BOXES, FEEDERS, FIXTURES, ETC., SHALL BE APPROVED BY THE ARCHITECT, AND OWNER PRIOR TO THE INSTALLATION OF THE SAME.
- I. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS, AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS, AND THE BEST PRACTICES OF THE TRADE FOR INSTALLATION OF ALL ELECTRICAL WORK.
- ANY NECESSARY ELECTRICAL SERVICE INTERRUPTIONS SHALL BE AT A TIME CONVENIENT TO THE BUILDING OWNER.
- K. ALL PENETRATIONS THROUGH SLABS AND FIRE RATED PARTITIONS SHALL BE FIRE STOPPED USING APPROVED METHOD TO MAINTAIN THE FIRE RESISTANCE RATING.
- L. THE E.C. SHALL CALL FOR A FINAL PUNCH-LIST WHEN ALL ELECTRICAL WORK IS COMPLETE. IN THE EVENT REPRESENTATIVES OF THIS OFFICE ARRIVE AT THE SITE AND DEEM WORK IS NOT SUFFICIENTLY COMPLETE, NO REVIEW/PUNCH-LIST WILL OCCUR. THE E.C. WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH RESCHEDULING THE PUNCH-LIST.

SCOPE OF WORK

- A. WITHOUT INTENDING TO LIMIT AND/OR RESTRICT THE SCOPE OF WORK REQUIRED AND SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR, THE WORK OF THIS DIVISION SHALL, IN GENERAL COMPRISE THE FOLLOWING:
- 1. INSTALLATION OF NEW ELECTRICAL DISTRIBUTION SYSTEM AND PANELS.
- 2. FURNISHING AND INSTALLING NEW LIGHTING FIXTURES AND LAMPS.
- 3. FURNISHING AND INSTALLING NEW FEEDERS, CONDUITS, BRANCH
- 4. FURNISHING AND INSTALLING NEW RACEWAYS, OUTLET BOXES, WIRING AND CONNECTIONS FOR LIGHTING FIXTURES, SWITCHES, AND RECEPTACLES.
- 5. PROVIDE CONNECTIONS TO ALL ELECTRICAL EQUIPMENT FURNISHED BY
- OTHER TRADES OR BY THE OWNER.
- 6. POWER WIRING FOR ALL MOTORS, INCLUDING INSTALLING ALL REQUIRED DISCONNECT SWITCHES AND MOUNTING OF STARTERS.
- 7. FURNISHING AND INSTALLING ALL TELEPHONE/DATA SYSTEM CONDUITS. SLEEVES AND BOXES.
- 8. TEMPORARY LIGHT AND POWER.

CIRCUIT WIRING, ETC.

- GROUNDING.
- 10. CUTTING, CHANNELING, AND PATCHING
- 11. FIRE ALARM SYSTEM.
- 12. REMOVAL OF ELECTRICAL SYSTEM AS REQUIRED AND AS INDICATED ON

WORK NOT INCLUDED

- A. FURNISHING MOTORS, MOTOR STARTER AND CONTROL DEVICES CONNECTED TO EQUIPMENT FURNISHED UNDER OTHER DIVISIONS OF THE SPECIFICATIONS. HOWEVER, ELECTRICAL CONTRACTOR WILL ERECT AND WIRE SAME, FURNISH AUXILIARY MOTOR DISCONNECTS AS REQUIRED BY DRAWINGS OR CODE.
- B. FINISH PAINTING.
- C. TELEPHONE/DATA WIRING AND DEVICES.
- CODES, PERMITS, AND INSPECTIONS A. ELECTRICAL WORK SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE STATE ELECTRICAL CODE, LOCAL

ORDINANCES, AND OTHER AUTHORITIES EXERCISING JURISDICTION

OVER ALL ELECTRICAL CONSTRUCTION WORK AND THE PROJECT.

- B. NOTHING CONTAINED IN THESE SPECIFICATIONS OR PLANS SHALL BE SO CONSTRUED AS TO CONFLICT WITH ANY LOCAL, MUNICIPAL AND NATIONAL BOARD OF THE FIRE UNDERWRITERS REGULATIONS GOVERNING THE INSTALLATION OF WORK SPECIFIED HEREIN. ALL SUCH LAWS, ORDINANCES, AND REGULATIONS, WHERE THEY APPLY TO THIS WORK, ARE HEREBY INCORPORATED INTO AND MADE A PART OF THE SPECIFICATIONS. ALL SUCH REQUIREMENTS SHALL BE SATISFIED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- C. ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES SHALL BE OBTAINED, PAID FOR, AND MADE AVAILABLE AT THE COMPLETION OF THE WORK.
- D. COORDINATE ALL SERVICE WORK WITH THE LOCAL UTILITY COMPANIES. ALL WORK INCLUDING BUT NOT LIMITED TO, PRIMARY ELECTRIC DUCT BANKS, TRANSFORMER PADS, MANHOLES/ PULL BOXES, METERING, PROTECTION BOLLARDS AND TELEPHONE/CABLE TV SERVICE DUCT BANKS SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE LOCAL UTILITY
- COMPANIES. GUARANTEES AND CERTIFICATIONS
- A. ALL WORK SHALL BE GUARANTEED TO BE FREE FROM DEFECTS, DEFECTIVE MATERIALS OR WORKMANSHIP, AS WELL AS DAMAGE TO THE WORK OF ANY/ALL TRADES RESULTING FROM THE SAME, SHALL BE REPLACED OR REPAIRED AS DIRECTED FOR DURATION OF ONE YEAR, FROM THE DATE OF ACCEPTANCE.
- B. THE DATE OF ACCEPTANCE SHALL BE THE DATE OF THE FINAL PAYMENT FOR THE WORK OR THE DATE OF A FORMAL NOTICE OF ACCEPTANCE, WHATEVER IS EARLIER.
- NON-DURABLE ITEMS, SUCH AS ELECTRIC LAMPS, SHALL BE REPLACED UP TO THE DATE OF ACCEPTANCE, SUCH THAT THEY SHALL HAVE HAD NO MORE THAN 100 HOURS USE PRIOR TO THIS
- 1.06 SHOP DRAWINGS AND EQUIPMENT SUBMISSIONS
- A. PRIOR TO PURCHASING ANY EQUIPMENT OR MATERIAL, A LIST OF THEIR MANUFACTURERS SHALL BE SUBMITTED FOR APPROVAL.
- B. PRIOR TO ASSEMBLING OR INSTALLING THE WORK, CATALOG INFORMATION AND FACTORY ASSEMBLY DRAWINGS, AS REQUIRED FOR A COMPLETE EXPLANATION AND DESCRIPTION OF ALL FIXTURES, DEVICES, DEVICES AND ITEMS OF EQUIPMENT, SHALL BE SUBMITTED FOR APPROVAL.
- C. FIELD INSTALLATION DRAWINGS AS REQUIRED TO EXPLAIN FULLY ALL PROCEDURES INVOLVED IN ERECTING, MOUNTING AND CONNECTING ALL ITEMS OF EQUIPMENT.
- D. NO EQUIPMENT SHALL BE FABRICATED. DELIVERED. ERECTED. OR RECONNECTED THAN FROM DRAWINGS APPROVED BY THE ENGINEER. SHOP DRAWING IN THE NUMBER DIRECTED SHALL BE
- SUBMITTED FOR THE FOLLOWING: 1. LIGHTING FIXTURES. 5. PANEL BOARDS AND CIRCUIT BREAKERS
- 2. WIRING DEVICES AND PLATES. 6. SAFETY SWITCHES AND MOTOR STARTERS 3. CONDUIT, BOXES, AND
- FITTINGS. FIRE ALARM SYSTEM INCLUDING BATTERY CALCULATIONS AND 4. WIRE AND CABLE WIRING DIAGRAMS.
- E. IT SHALL BE UNDERSTOOD THAT APPROVAL OF DRAWINGS WILL NOT BIND THE ENGINEER OR THE OWNER TO THE FINAL ACCEPTANCE OF SUCH EQUIPMENT AS THE COMPLETED INSTALLATION AND TEST OF EQUIPMENT AS A WHOLE MUST BE PROVIDED AND GUARANTEED HEREIN AS SPECIFIED.
- A. UPON REQUEST BY ARCHITECT OR OWNER, SUBMIT FOR APPROVAL ONE SAMPLE OF EACH OF THE FOLLOWING:
- 1. EACH TYPE OF LIGHTING FIXTURE. . EACH TYPE OF WIRING DEVICE.
- 3. EACH TYPE OF WIRING DEVICE PLATE.
- AS-BUILT DRAWINGS
- A. THE CONTRACTOR SHALL, WITHIN 15 DAYS OF THE COMPLETION OF THE PROJECT AND PRIOR TO REQUESTING FINAL PAYMENT, SUBMIT AS-BUILT DRAWINGS OF THE ACTUAL INSTALLATION OF THE ELECTRICAL WORK. THREE (3) PAPER SETS OF DRAWINGS, SAME SCALE AS THE DESIGN SET UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS, AND THREE (3) CD DISKS WITH AutoCAD 2007 OR LATER VERSIONS OF THE AS-BUILTS ARE REQUIRED FOR SUBMISSION TO THE ARCHITECT ENGINEER.

<u>TESTS</u> 1.09

- A. BEFORE AN APPLICATION FOR THE FINAL ACCEPTANCE OF THE WORK WILL BE CONSIDERED, ALL TESTS DEEMED NECESSARY BY THE ARCHITECT TO SHOW PROPER EXECUTION OF THE WORK SHALL HAVE BEEN PERFORMED AND COMPLETED IN THE PRESENCE OF AN ARCHITECT'S REPRESENTATIVE. SCHEDULE OF ALL TESTING PROCEDURES SHALL BE ARRANGED TO SUIT THE CONVENIENCE OF THE ARCHITECT.
- B. ANY DEFECTS OR DEFICIENCIES DISCOVERED IN ANY OF THE ELECTRICAL WORK SHALL BE CORRECTED.
- <u>IDENTIFICATION</u>
- A. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL TYPEWRITTEN DIRECTORIES BEHIND TRANSPARENT PLASTIC COVERS IN METAL FRAMES, IN ALL NEW AND EXISTING PANELS INDICATING TYPE AND LOCATION OF LOAD BEING SERVED BY INDIVIDUAL CIRCUIT BREAKERS.
- B. ALL PARTS OF EQUIPMENT, SUCH AS PANELS, JUNCTION BOXES, SAFETY SWITCHES, MOTOR STARTER, CIRCUIT BREAKERS, CONDUCTORS AND SIMILAR ITEMS SHALL BE IDENTIFIED BY NAME, AT SUPPLY END, "LOAD SUPPLIED", AND AT LOAD END "LOAD SUPPLIED FROM".
- <u>PART 2 PRODUCTS</u>
- 2.01 EQUIPMENT AND MATERIALS
- A. ALL EQUIPMENT AND MATERIALS FOR PERMANENT INSTALLATION SHALL BE THE PRODUCTS OF RECOGNIZED MANUFACTURERS AND SHALL BE NEW.
- B. NEW EQUIPMENT AND MATERIALS SHALL:
- 1. WHERE NORMALLY SUBJECTED TO UNDERWRITER'S LABORATORY INC. LISTING OR LABELING SERVICES, BE SO LISTED OR LABELED.
- 2. BE WITHOUT BLEMISH OR DEFECT.
- 3. NOT TO BE USED FOR TEMPORARY LIGHT AND POWER PURPOSES WITHOUT ARCHITECT'S AUTHORIZATION.
- 4. BE IN ACCORDANCE WITH THE LATEST APPLICABLE N.E.M.A.
- 5. BE APPROVED BY BUILDING MANAGER OR OWNER.
- C. FOR ITEMS WHICH ARE TO BE INSTALLED BUT NOT PURCHASED AS PART OF THE ELECTRICAL WORK, THE ELECTRICAL WORK SHALL
- 1. THE COORDINATION OF THEIR DELIVERY.
- 2. THEIR FIELD MAKE-UP AND INTERNAL WIRING AS MAY BE NECESSARY FOR THEIR OPERATION.
- D. ELECTRICAL RACEWAY AND SUPPORTING SYSTEMS SHALL BE FURNISHED AND INSTALLED COMPLETE. WITH ALL MATERIALS. FITTINGS, CONNECTIONS AND ACCESSORIES NECESSARY TO PROVIDE IN EACH INSTANCE A COMPLETE OPERATING INSTALLATION, AS DESCRIBED HEREIN, AS INDICATED ON THE DRAWINGS, AND/OR AS APPROVED BY THE BUILDING MANAGER OR OWNER.
- E. THE DRAWINGS ARE DIAGRAMMATIC AND GENERALLY INDICATIVE OF THE WORK TO BE INSTALLED, BUT DO NOT SHOW ALL BENDS, FITTINGS, AND BOXES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE JOB CONDITIONS INCLUDING STRUCTURAL AND FINISH CONDITIONS AFFECTING ALL HIS WORK AND ARRANGE THE SAME ACCORDINGLY, FURNISHING SUCH FITTINGS, BOXES AND SIMILAR ITEMS AS MAY BE REQUIRED TO MEET SUCH CONDITIONS.
- <u>WIRING MATERIALS</u>
- A. WIRE AND CABLE SHALL BE COPPER, RATED FOR 600 VOLTS, TYPE THHN FOR BRANCH CIRCUITS AND XHHW FOR FEEDERS.
- B. WIRE #10 AWG AND SMALLER SHALL BE SOLID, WIRE #8 AWG AND LARGER SHALL BE STRANDED.
- C. WIRING SHALL BE CONSISTENTLY COLOR CODED THROUGHOUT. FOR 120/208 VOLT SYSTEMS, UTILIZE RED, BLUE, BLACK FOR LINE (PHASE) CONDUCTORS AND WHITE FOR NEUTRAL CONDUCTOR, SWITCH LEG SHALL BE SEPARATELY IDENTIFIED. GROUND CONDUCTOR SHALL BE GREEN. FOR 277/480V SYSTEMS, UTILIZE BROWN, ORANGE, YELLOW FOR LINE (PHASE) CONDUCTORS, AND GREY FOR NEUTRAL CONDUCTOR. GROUND CONDUCTOR SHALL BE GREEN WITH YELLOW TRACER.
- D. MINIMUM SIZE:
 - 1. LIGHTING AND POWER: #12 AWG, UNLESS OTHERWISE INDICATED.
- 2. CONTROL: #14 AWG.
- 3. 120 VOLT CIRCUITS OVER 100 FEET IN LENGTH AND 277 VOLT CIRCUITS OVER 200 FEET IN LENGTH FROM THE POINT OF SUPPLY TO THE FIRST OUTLET SHALL BE #10 AWG.
- E. SPLICES IN BRANCH CIRCUIT WORK SHALL BE MADE BY MEANS OF TYPE 'R' "SCOTCHLOCK" ELECTRICAL TYPE.
- F. ELECTRICAL INSULATION TAPE SHALL BE VINYL PLASTIC TYPE WITH PRESSURE ADHESIVE "SCOTCH" ELECTRICAL TYPE.
- G. BRANCH CIRCUITRY NUMBERS INDICATED ON THE DRAWINGS ON MULTI-CIRCUIT HOMERUNS ARE FOR IDENTIFICATION OF DEVICES OR EQUIPMENT THEY ARE CONNECTED TO AND DO NOT NECESSARILY REFER TO PANELBOARD CIRCUIT NUMBERS. ASSIGNMENT OF BRANCH CIRCUIT NUMBERS SHALL BE PART OF THIS WORK AND INDICATED ON PANEL DIRECTORIES. BRANCH CIRCUITS SHALL BE CONNECTED TO CIRCUITS ON PANELBOARDS SO AS TO SECURE A REASONABLE BALANCE ON THE THREE PHASES. WHERE MORE THAN ONE CIRCUIT WITH A COMMON NEUTRAL IS INSTALLED IN THE SAME CONDUIT, EACH PHASE WIRE SHALL BE CONNECTED TO A DIFFERENT LEG OF THE SYSTEM.
- H. ALL CONDUCTORS SHALL BE COLOR CODED THROUGHOUT AND NUMBERED AND TAGGED AT EACH JUNCTION BOX, PULL BOX, PANEL, AND DEVICE WITH SUITABLE FIREPROOF TAGS OR ADHESIVE IDENTIFICATION BANDS.

CONDUITS AND RACEWAYS

- A. LIQUID TIGHT FLEXIBLE, GALVANIZED STEEL CONDUIT WITH CONTINUOUS COPPER BONDING CONDUCTOR, SHALL BE USED FOR CONNECTIONS TO MOTORS AND AT OTHER LOCATIONS WHERE VIBRATION MOVEMENT IS ENCOUNTERED.
- B. UNLESS OTHERWISE INDICATED OR SPECIFIED ALL WIRING SHALL BE INSTALLED CONCEALED IN CEILINGS, WALLS, SLABS, PIPE CHASES AND FURRED SPACES WHENEVER POSSIBLE.
- C. CONDUIT AND FITTINGS SHALL CONFORM TO LATEST ACCEPTABLE STATE CODE AND ALL OTHER CODES HAVING JURISDICTION.
- D. CONDUIT SHALL BE 3/4" TRADE SIZE MINIMUM. UNLESS OTHERWISE INDICATED OR SPECIFIED.
- E. ALL CONDUITS WHICH ARE TO REMAIN EMPTY FOR FUTURE INTRODUCTION OF CONDUCTORS SHALL BE PROVIDED WITH A PULL LINE WITH IDENTIFICATION BAND AT BOTH ENDS.
- F. STEEL JACKETED METAL CLAD CABLE CAN BE USED FOR LIGHTING AND APPLIANCE BRANCH CIRCUITRY IN VOIDS OF CEILING AND PARTITIONS, PROVIDED THAT THIS TYPE OF WIRING IS ACCEPTABLE
- G. RIGID GALVANIZED STEEL (RGS) CONDUIT SHALL CONFORM TO UL

6. FITTINGS SHALL BE THREADED.

TO THE LOCAL BUILDING OFFICIAL OR HIS REPRESENTATIVE.

- H. INTERMEDIATE METALLIC CONDUIT (IMC) SHALL CONFORM TO UL 1242. FITTINGS SHALL BE THREADED.
- I. ELECTRICAL METALLIC TUBING (EMT) SHALL CONFORM TO UL 797. FITTINGS SHALL BE GLAND AND RING COMPRESSION TYPE.

J. FLEXIBLE METALLIC CONDUIT SHALL CONFORM TO UL1. LIQUIDTIGHT

FLEXIBLE METAL CONDUIT SHALL CONFORM TO UL 360. K. ALL CONDUIT FITTINGS AND CONNECTORS SHALL BE STEEL WITH INSULATED THROATS. DIE-FORMED ZINC FITTINGS ARE NOT ACCEPTABLE. BUSHINGS SHALL BE PROVIDED AT ALL CONDUIT TERMINATIONS. BUSHINGS LARGER THAN 1" SHALL BE GROUNDING

TYPE. PVC BUSHINGS MAY BE UTILIZED ONLY FOR 3/4" BRANCH

JUNCTION BOXES A. JUNCTION BOX AND PULL BOXES SHALL BE PROVIDED WHERE INDICATED OR SPECIFIED AND WHERE NECESSARY TO FACILITATE

CIRCUIT CONDUITS TERMINATING AT PANELBOARDS.

THE INSTALLATION OF EQUIPMENT OR WIRING.

B. ALL BOXES SHALL BE SIZED IN ACCORDANCE WITH NATIONAL

OUTLET BOXES

ELECTRIC CODE.

- A. OUTLET, PULL AND JUNCTION BOXES SHALL BE FABRICATED FROM STEEL AND CONFORM TO UL 50, UL 514, AND NEMA OS1. BOXES FOR INTERIOR LOCATIONS SHALL BE CODE GAUGE, GALVANIZED SHEET STEEL.
- B. BOXES SHALL CONTAIN SUITABLE KNOCKOUTS. BARRIERS SHALL BE FURNISHED AS REQUIRED BY CODE.
- C. BOXES SHALL BE SIZED AS REQUIRED BY CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN, EXCEPT WHERE NOTED TO BE LARGER. THE MINIMUM BOX SIZE SHALL BE 4" SQUARE BE 1 1/2" DEEP. COVERS GREATER THAN 50LBS. SHALL BE DIVIDED INTO MULTIPLE SECTIONS.
- D. WHERE REQUIRED AND APPROVED BY THE ENGINEER, EXTRA DEEP OR EXTRA SHALLOW OUTLET BOXES SHALL BE USED TO FACILITATE THE INSTALLATION OF THE CONDUIT SYSTEM.

FASTENINGS, SUPPORTS, AND HANGERS

- A. ALL PARTS OF THE ELECTRICAL INSTALLATION SHALL BE ADEQUATELY SUPPORTED FROM THE BUILDING CONSTRUCTION USING APPROVED CLAMP SCREWS WITH THE INSERTS OF EXPANSION ANCHORS, EXPANSION BOLTS AND TOGGLE BOLTS. "IN NO CASE SHALL THE HUNG CEILING MEMBERS OR WIRES BE USED
- TO SUPPORT CONDUIT". B. ALL FASTENING, SUPPORTS, CLAMPS, ANCHORS, AND SIMILAR ITEMS SHALL BE OF TYPE SUITABLE FOR THE PURPOSE.

<u>WIRING DEVICES</u>

- A. ALL DEVICES SHALL BE SPECIFICATION GRADE, U.L. APPROVED.
- B. RECEPTACLE, 20 AMP, 2 POLE, 3 WIRE DUPLEX, 125 VOLT, GROUND TYPE. DECORA STYLE.
- C. COLOR AND TYPE OF ALL DEVICE PLATES SHALL BE APPROVED BY ARCHITECT PRIOR TO PURCHASE/INSTALLATION.
- D. THE E.C. SHALL PROGRAM ALL OCCUPANCY SENSORS TO THE SATISFACTION OF THE TENANT. AS A MINIMUM, THE E.C. SHALL PROVIDE (4) HOURS OF TRAINING TO THE TENANT. ALL OCCUPANCY SENSORS SHALL BE FULLY PROGRAMMED AT TIME OF FINAL PUNCH-LIST.

2.08 <u>GROUNDING</u>

- A. ALL ENCLOSURES AND NON CURRENT CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, RACEWAY SYSTEMS AND EQUIPMENT GROUND BUSES SHALL BE EFFECTIVELY GROUNDED TO THE BUILDING GROUNDING SYSTEMS THROUGH THE SYSTEM GROUND CONDUCTORS. METALLIC CONDUITS AND OTHER RACEWAYS AND ENCLOSURES FOR CONDUCTORS SHALL BE METALLIC ALLOY JOINED TOGETHER INTO A CONTINUOUS ELECTRICAL CONDUCTOR, AS TO PROVIDE EFFECTIVE ELECTRICAL CONTINUITY.
- B. GROUND CONTINUITY SHALL BE MAINTAINED THROUGHOUT.

<u>LIGHTING FIXTURES</u>

- A. ALL LIGHTING FIXTURES SHALL COMPLY WITH THE STATE ELECTRIC CODE AND SHALL BE U.L. APPROVED.
- B. ALL LIGHTING FIXTURES SHALL BE APPROVED PRIOR TO PURCHASE.
- C. ALL LIGHTING FIXTURES SHALL BE FURNISHED AND INSTALLED COMPLETE WITH NECESSARY COMPONENTS, ACCESSORIES, AND LAMPS OF CORRECT TYPE AND RATING AS INDICATED ON ELECTRICAL DRAWINGS.
- D. FIXTURES SHALL BE CAREFULLY SUPPORTED AND ALIGNED WITH NECESSARY HANGERS, SUPPORTING MEMBERS, AND FRAMES FOR PROPER INSTALLATION, ALL AS REQUIRED AND AS APPROVED.
- E. ALL FIXTURES SHALL BE PROPERLY WIRED AND CONNECTED TO BRANCH CIRCUITS, TESTED AND LEFT READY FOR OPERATION.
- F. FOR TYPE, MAKE, AND QUANTITIES OF LIGHTING FIXTURES
- G. FIXTURES AND/OR FIXTURE OUTLET BOXES SHALL BE PROVIDED WITH HANGERS TO ADEQUATELY SUPPORT THE COMPLETE WEIGHT OF THE FIXTURE. PROVIDE SUPPLEMENTAL SUPPORTS PER ALL LOCAL AND STATE CODES.

REQUIRED, SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS.

H. ALL FLUORESCENT LIGHTING FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND SOLID STATE ELECTRONIC ENERGY SAVING CLASS "P"

TELEPHONE SYSTEM

- A. PROVIDE EMPTY CONDUIT WITH PULL LINE 3/4" MINIMUM AT EACH TEL/DATA OUTLET LOCATION. EXTEND IT UP TO 12" ABOVE HUNG CEILING AND TERMINATE WITH PLASTIC BUSHING.
- B. PROVIDE 5/8" THICK, 4'-0" WIDE AND 8'-0" HIGH FIRE RETARDANT PLYWOOD BACKBOARD IN TELEPHONE CLOSET.
- COORDINATE SIZE WITH OWNER'S TELEPHONE SYSTEM VENDOR. C. ALL TELEPHONE/DATA WIRING, JACKS, COVERPLATES, PUNCH DOWN BLOCKS, ETC., ARE FURNISHED AND INSTALLED BY OWNER'S

PRIVATE VENDOR.

- 2.11 <u>PANEL BOARDS</u> A. PANEL BOARDS SHALL CONSIST OF FACTORY COMPLETED DEADFRONT ASSEMBLIES OF BACK PANS, MAIN BUSSES, OVER CURRENT AND SWITCHING UNITS, SHEET METAL CABINETS AND TRIMS. THEY SHALL BE SO DESIGNED THAT SWITCHING AND OVER CURRENT DEVICES CAN BE REPLACED WITHOUT DISTURBING ADJACENT UNITS AND WITHOUT REMOVING THE MAIN BUS CONNECTORS, SO THAT CIRCUITS MAY BE CHANGED WITHOUT
- MACHINING, DRILLING, OR TAPPING. B. BUS BARS FOR THEIR MAINS SHALL BE OF COPPER HAVING CURRENT CAPACITIES AS INDICATED AND SIZED FOR SUCH CAPACITIES IN ACCORDANCE WITH UNDERWRITER LABORATORY STANDARDS. UNLESS OTHERWISE NOTED, FULL SIZE NEUTRAL BARS SHALL BE INCLUDED. BUS BAR TAPS FOR PANELS WITH SINGLE POLE BRANCHES SHALL BE ARRANGED FOR SEQUENCE PHASING OF THE BRANCH CIRCUIT DEVICES. BUSSING SHALL BE BRACED THROUGHOUT TO CONFORM TO INDUSTRY STANDARD PRACTICE GOVERNING SHORT CIRCUIT STRESSES IN PANELBOARDS. PHASE BUSSING SHALL BE FULL HEIGHT WITHOUT REDUCTION.
- C. A GROUND BUS SHALL BE PROVIDED FOR EACH PANEL. EACH GROUND BUS SHALL BE OF THE SAME MATERIAL AS THE PHASE AND NEUTRAL BUSES.
- D. PANEL BOARDS SHALL COMPLY WITH THE FOLLOWING INDUSTRY STANDARDS:
- 1. UL STANDARDS
- a. PANEL BOARDS UL67 b. CABINET & BOXES - UL50

FOLLOWS:

- 2. NEMA STANDARD PB1
- AUTOMATIC OPERATION.

APPROVED EQUAL. MINIMUM CIRCUIT BREAKER INTERRUPTING

E. CIRCUIT BREAKERS FOR PANEL OR INDIVIDUAL MOUNTING SHALL BE

MOLDED CASE TYPE, QUICK-MAKE, QUICK-BREAK, OR MANUAL OR

F. AMPERE RATING AND NUMBER OF POLES SHALL BE AS INDICATED ON THE DRAWINGS. G. BREAKERS SHALL BE TYPE AS MANUFACTURED BY SQUARE D OR

CAPACITY SHALL MATCH EXISTING SYSTEM, BUT IN NO CASE SHALL BE LESS THAN 22,000 SYM RMS AMPERES.

1. DOW CORNING SILICONE RTV FOAM.

3 INCHES ABOVE FLOOR OR ROOF.

- 2.12 <u>FIRESTOPPING, SMOKEPROOFING AND WATERPROOFING</u> A. PROVIDE FIRESTOP OR SMOKESTOP BETWEEN SLEEVES AND CONDUIT
- DOW CORNING 96-081 RTV SILICONE ADHESIVE SEALANT. 3. MINERAL FIBER BOARD, MATTING AND PUTTY.

PROVIDE WATERPROOFING OF ALL MATERIALS WHICH PENETRATE A FLOOR,

EXTERIOR WALL SLAB OR ROOF. ALL SLEEVES SHALL EXTEND A MINIMUM OF

MANUFACTURED BY BIO FIRE SHIELD, INC., OR DOW CORNING CORP. AS



ARCHITECTURE INTERIOR ARCHITECTURE SPACE PLANNING FACILITIES MANAGEMENT

PROJECT MANAGEMENT BISBANO + ASSOCIATES, INC

RISING SUN MILLS | 188 VALLEY STREET | PROVIDENCE, RI | 02909

VOICE 401.404.8310 FAX 401.404.8311 WWW.BISBANO.COM



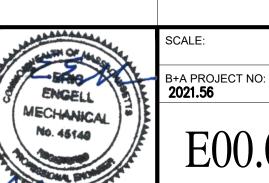
610 Main Street Cambridge, MA

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KENDALL SQUARE

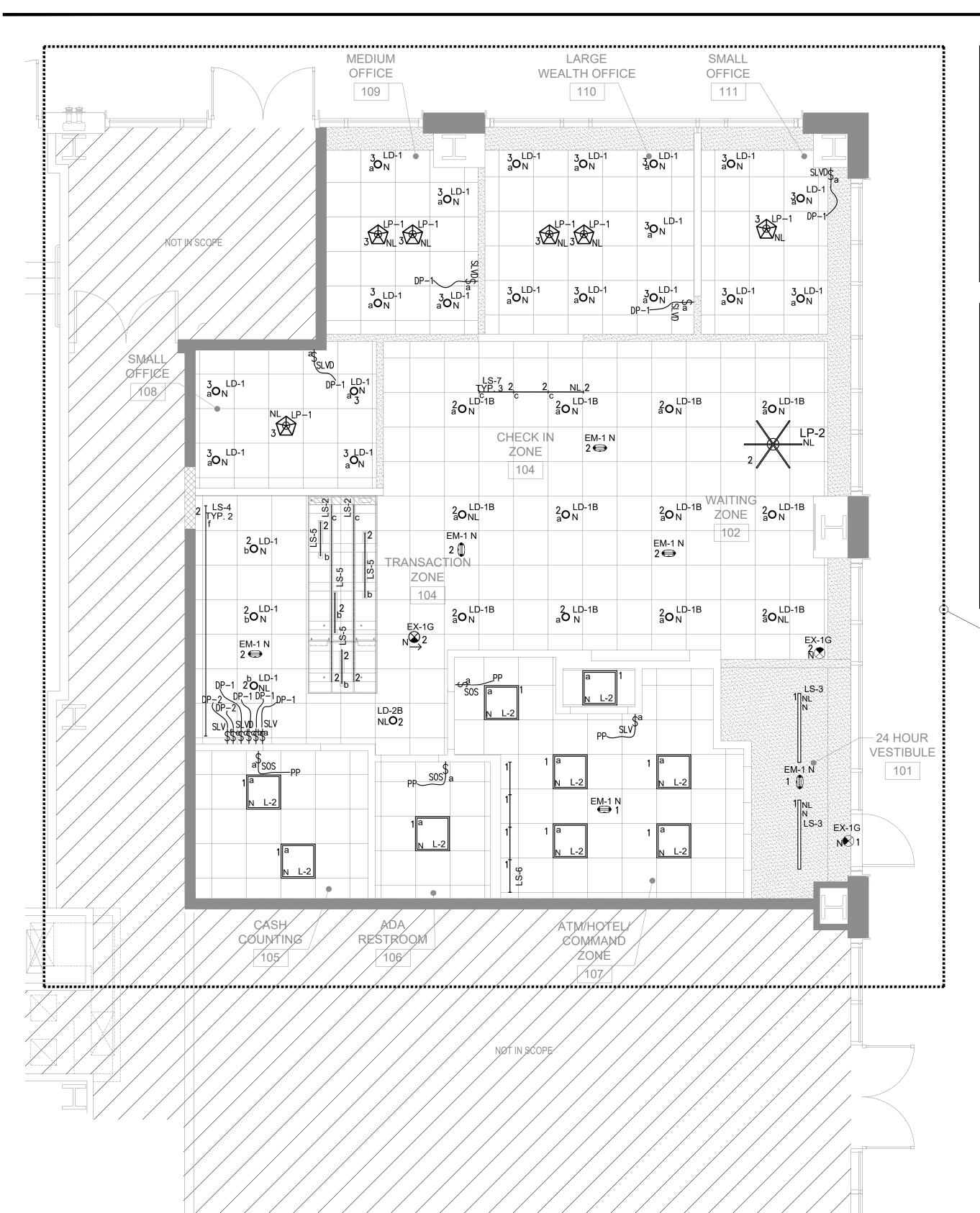
ELECTRICAL SPECIFICATIONS & DETAILS

ISSUE TYPE: RE
CONSTRUCTION DOCUMENTS -



E00.01

ELECTRICAL SPECIFICATIONS



SWIT	CHES & CONTRO	LS LEGEND	
SYMBOL	DESCRIPTION	MANUFACTURER/MODEL NO.	LOCATION
\$ _{SLV}	ON/OFF SWITCH	SLV - NPODMA WH	CUSTOMER FACING: CHECK-IN ZONE WALL WASHERS MEETING ROOM OR OFFICE, PENDANT ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
\$ SLVD	SWITCH, DIMMER	SLVD — NPODMA DX WH	CUSTOMER FACING: TELLER AREA BANK LOBBY BANK LOBBY TELLER, SOFFIT LIGHT UPLIGHT BANK LOBBY TELLER, SOFFIT LIGHT DOWNLIGHT BANK LOBBY TELLER, DCN SURROUND GREEN LIGHT MEETING ROOM OR OFFICE, DOWNLIGHT ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
\$sos	OCCUPANCY SENSOR, WALL	SOS — NWSXA PDT LV WH	BACK OF HOUSE:
NL	NIGHT LIGHT CIRCUIT	SWITCH NOT REQUIRED	CUSTOMER FACING: ENTRY VESTIBULE, STRIP LIGHT WAITING ZONE, SEATING AREA PENDANT
PP	POWER/RELAY PACK ON/OFF EXTERNAL FAULT PROTECTION	NPP16 EFP	REFER TO A03.01 PLAN ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
DP1	POWER/RELAY PACK OCCUPANCY CONTROLLED DIMMING EXTERNAL FAULT PROTECTION	NPP16 D EFP	 REFER A03.01 PLAN ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
DP2	POWER/RELAY PACK OCCUPANCY CONTROLLED DIMMING SET/LOCKED ON SITE EXTERNAL FAULT PROTECTION	NPP16 D EFP	REFER TO A03.01 PLAN USED AT TELLER SHROUD AND TELLER PORTAL UPLIGHT ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
SWITCH FACE PLATE	FACE PLATE SPECIFICATION FOR ALL SWITCHES	SERIES: WSXPODA COLOR: WHITE	ELECTRICIAN TO USE FOR ALL SWITCH FACE PLATES
NIO BT	BLUETOOTH LOW ENERGY COMMUNICATION MODULE	NLIGHT NIO BT	TO BE PLACED IN IT/SECURITY ROOM UPON COMPLETION ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM

GENERAL NOTES:

- 1. COORDINATE WITH EXTERIOR BRAND BOOK FOR SIGNAGE AND ILLUMINATED AWNING LOCATION. EXTERIOR SIGNANE AND ILLUMINATIONS SHALL BE CONTROLLED USING PHOTOCELL/ CITIZENS BMS IN COORDINATION WITH CITIZENS REPRESENTATIVES.
- 2. CONTRACTOR TO VERIFY THE ELECTRICAL REQUIREMENTS AND ELECTRICAL CONNECTION FOR SPEAKER, WIFI, RADIO BOX AND ANY OTHER MISCELLANEOUS EQUIPMENTS IN COORDINATION WITH CITIZENS REPRESENTATIVE.
- 3. ALL EXISTING DEVICES/LIGHTING DESIGNATED AS "E" SHALL REMAIN INTACT. E.C. TO VERIFY THE OPERABLE CONDIITION IN FIELD IN COORDINATION WITH CITIZEN REPRESENTATIVE. PROVIDE NEW IF FOUND INOPERABLE. BASE BID ACCORDINGLY.

LIGHTING FIXTURE GENERAL NOTES: PROVIDE ACCESSORIES AND MOUNTING

- HARDWARE FOR ALL LIGHTING FIXTURES.
- COLORS SHALL BE AS SELECTED BY ARCHITECT.
 COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH—IN.
- 4. ALL LIGHT FIXTURES SHALL BE LED.
- 5. E.C. SHALL COORDINATE ALL DIMMER SWITCHES WITH ARCHITECT & REPRESENTATIVE FROM BOSTON LIGHT SOURCE. SWITCHES AND CONTROLS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- S. ALL EMERGENCY, NIGHT LAMPS AND EXIT SIGNS SHALL BE CONNECTED TO NEAREST LIGHTING CIRCUIT AVAILABLE AHEAD OF ALL SWITCHING CONTROLS FOR CONTINEOUS OPERATION.
- EMERGENCY LIGHTING FIXTURE "EM-1" SHALL BE CEILING MOUNTED. E.C. TO COORDINATE WITH CITIZEN'S REPRESENTATIVE.

— ALL LIGHT FIXTURES IN THIS AREA SHALL BE CIRCUITED TO PANEL "A"

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.	LAMP	SWITCHES/DIMMERS	REMARKS
O LD-1	RECESSED LED ROUND DOWNLIGHT • WIDE FLOOD	SPECTRUM	MODEL: SR4MO XT13L DS101 H12 RDD4F 35K XW MW SO	3500K 1300 LUMENS	REFER TO A03.01 SWITCH SCHEDULE	LOCATION: MEETING ROOMS; AS INDICATED ON A04.00 SERIES DRAWINGS. ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM PLACEMENT: 4'-0" O.C.
O LD-1B	RECESSED LED ROUND DOWNLIGHT • WIDE FLOOD	SPECTRUM	MODEL: SR4MO XT20L DS101 H12 RDD4F 35K XW MW SO	3500K 2000 LUMENS	REFER TO A03.01 SWITCH SCHEDULE SOME FIXTURES TO BE LEFT ON THE NIGHT LIGHT CIRCUIT	LOCATION: BANK LOBBY; AS INDICATED ON A04.00 SERIES DRAWINGS. TELLER AREA WILL BE ON A SEPARATE CIRCUIT AND SEPARATE DIMMER SWITCH ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM DIACEMENT: 6' 0" 0.0
O LD-2B	RECESSED LED ROUND DOWNLIGHT • NARROW FLOOD	SPECTRUM	MODEL: SR4MO XT20L DS101 H12 RDD4F 35K ND MW SO	3500K 2000 LUMENS	REFER TO A03.01 SWITCH SCHEDULE	 PLACEMENT: 6'-0" O.C. LOCATION: BANK LOBBY; END WALL CONDITION WHERE REQUIRED AND AS SHOWN ON A04.00 DRAWING SERIES ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM PLACEMENT: 6'-0" O.C.
PENDANTS	PENDANT	SHADES OF LIGHT	MODEL: YOUNG HOUSE LOVE EQUILATERAL	IV.	DEFED TO A07.01 CWITCH	• LOCATION: MEETING ZONE, WEALTH OFFICE
LP-1	PENDANI	SHADES OF LIGHT	PENDANT FINISH: BRONZE DIMENSIONS: 16"H X 14"W X 14"D	-K BULB: ECOSMART 40 WATT EQUIVALENT G25 DIMMABLE ENERGY STAR CLEAR GLASS FILAMENT VINTAGE EDISON LED LIGHT BULB BRIGHT WHITE	SHOULD BE LEFT ON A	• NOTE: • IN GENERAL: • IN GENERAL: • MEDIUM AND LARGE MEETING ROOM: • MEDIUM AND LARGE MEETING (2) 12" ROD AT HIGHER PENDANT, U.N.O. • MEDIUM AT LOWER PENDANT, U.N.O. • MEDIUM AT LOWER PENDANT AND (2) 12" ROD AT LOWER PENDANT, U.N.O. • MEDIUM AND REGARDLESS OF MEETING ROOM SIZE. • MEDIUM AND REGARDLESS OF MEETING ROOM SIZE. • MECEIVE ANY PENDANTS. • LOWEST HANGING PENDANT SHOULD BE FURTHEST AWAY FROM THE CREDENZA • INSTALLATION: FIRST VERTICAL ROD TO BE TIGHT TO FIXTURE CANOPY AT CEILING • INTERIOR ELEVATIONS WILL MANDATE PLACEMENT • ORDER CONTACT: STANDARD ELECTRIC • MICHAEL KARASS
LP-2	PENDANT	SONNEMAN LIGHTING	MODEL: STIX LED PENDANT STYLE: 3 ARMS FINISH: SATIN BLACK DIMENSIONS: 40" DIA. MOUNTING HEIGHT: 90" A.F.F. TO BOTTOM OF FIXTURE WHEN FURNITURE IS BELOW.	3000K	SWITCH NOT REQUIRED LEAVE ON NIGHT LIGHT CIRCUIT	 MKARASS@STANDARDELECTRIC.COM LOCATION: WAITING ZONE, SEATING AREA SPACING BETWEEN ARMS TO BE 2" NOTE: LARGE AND MEDIUM WAITING ZONE: QTY. SMALL WAITING ZONE: QTY. 1 ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
2 X 2	RECESSED 2X2 LED FLAT PANEL	ABL-LITHONIA LIGHTING		3500K LED	REFER TO A03.01 SWITCH SCHEDULE	LOCATION: BACK OF HOUSE LOCATIONS AS INDICATED ON A04.00 SERIES DRAWINGS. ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
LIGHT STRIPS	TOP PORTAL LED LIGHT STRIP	KELVIX	MODEL: FML 2C 6 PH40K 24V CH 014 C 2 FR CP EC	4000K	REFER TO A03.01 SWITCH SCHEDULE	• LOCATION: TOP OF PORTAL. REFER TO MILLWORK DETAILS BY SPARKS
			HOUSING: USE STANDARD FINISH			ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
LS-3	RECESSED LINEAR LIGHT STRIP	XAL INC.	MODEL: BASO1.5 RTR WH OP 35K C80 UNV 010V 0550LF ST 48IN	3500K 550 LUMENS/FT.	SWITCH NOT REQUIRED LEAVE ON NIGHT LIGHT CIRCUIT	LOCATION: ENTRY VESTIBULE ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
LS-4	SHROUD LED LIGHT STRIP	KELVIX	MODEL NO.: PHGK-WR-24V CHANNEL MODEL NO.: CH-607 COLOR: GREEN LENS: FROSTED LENGTH: VARIES PER SITE CHANNEL: 45 DEGREE ANGLE	_	REFER TO A03.01 SWITCH SCHEDULE CFG TO CONFIRM ON A SITE BY SITE BASIS WHETHER OR NOT THE FIXTURE SHOULD BE LEFT ON A NIGHT LIGHT CIRCUIT	 INSTALLATION SETTING: THE LUMINOSITY SHOUBE SET AT 2 CLICKS UP FROM THE LOWEST SETTING. ONCE SET TO THIS CRITERIA, THE SWITCH SHOULD BE LOCKED SO THAT IT CANNOT BE FURTHER ADJUSTED. LOCATION: UTILIZE AT SHROUD ABOVE REAR TELLER COUNTER; PREFERRED OPTION; REFER TO MILLWORK DETAILS BY SPARKS NOTE: TYP. 2 ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
⊢——- LS−5	RECESSED LINEAR LIGHT STRIP	KELVIX	MODEL: FML 2C 6 PH40K 24V CH211 2 WHS CP EC FMC 2C HOUSING: USE STANDARD FINISH	4000K	REFER TO A03.01 SWITCH SCHEDULE	LOCATION: TELLER PORTAL ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
LS-6	MILLWORK LED LIGHT STRIP	KELVIX	MODEL: FML 2C 6 PH40K 24V CH 014 C 2 WH CP EC CH CC 2M HOUSING: USE STANDARD FINISH	4000K	REFER TO A03.01 SWITCH SCHEDULE	 LOCATION: COMMAND ZONE, UNDER COUNTER LIGHTING. REFER TO MILLWORK DETAILS BY SPARKS ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
LS-D	LIGHT STRIP DRIVERS	KELVIX	MODEL: ULV96 24V NOTE: USE AS REQUIRED PER DRAWINGS	_	_	USE AS REQUIRED FOR DRAWINGS ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
LS	ADDITIONAL LIGHT STRIP CHANNEL	KELVIX	MODEL: FMC 2C NOTE: USE AS REQUIRED PER DRAWINGS	-	-	USE AS REQUIRED FOR DRAWINGS ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
LS-7	RECESSED WALL WASH LINEAR LIGHT STRIP	XAL INC.	MODEL: BASO1.5 9GR WH WW 35K C80 UNV 010V 0600LF ST 24IN HOUSING: USE STANDARD FINISH NOTE: STANDARD SPEC IS FOR %6" GRID; IF OTHER GRID IS BEING USED, THE SPEC NUMBER WILL NEED TO BE ADJUSTED TO REFLECT WHAT IS NEEDED	3500K	REFER TO A03.01 SWITCH SCHEDULE	LOCATION: RECESSED WALL WASH LINEAR LIGHTS BEHIND CHECK—IN DESK FOR BRANDIN WALL; REFER TO A04.01 FOR EXACT LOCATION ORDER CONTACT: STANDARD ELECTRIC MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM
	LIGHTING		MODEL: ELM2L	_	_	LOCATION: INTERIOR, REFER TO ARCHITECTURA PLANS ORDER CONTACT: STANDARD ELECTRIC
EMERGENCY EM-1	COMPACT DUAL HEAD LED EMERGENCY LIGHT	ABL-LITHONIA LIGHTING				•• MICHAEL KARASS MKARASS@STANDARDELECTRIC.COM

NOTE:
ALL EXTERIOR SIGNAGE TO BE CONTROLLED BY BMS





ARCHITECTURE
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RISING SUN MILLS | 188 VALLEY STREET | PROVIDENCE, RI | 02909

VOICE 401.404.8310 FAX 401.404.8311 WWW.BISBANO.COM



KENDALL SQUARE

610 Main Street Cambridge, MA 02139

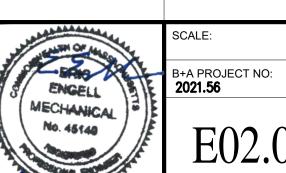
ELECTRICAL LIGHTING PLAN

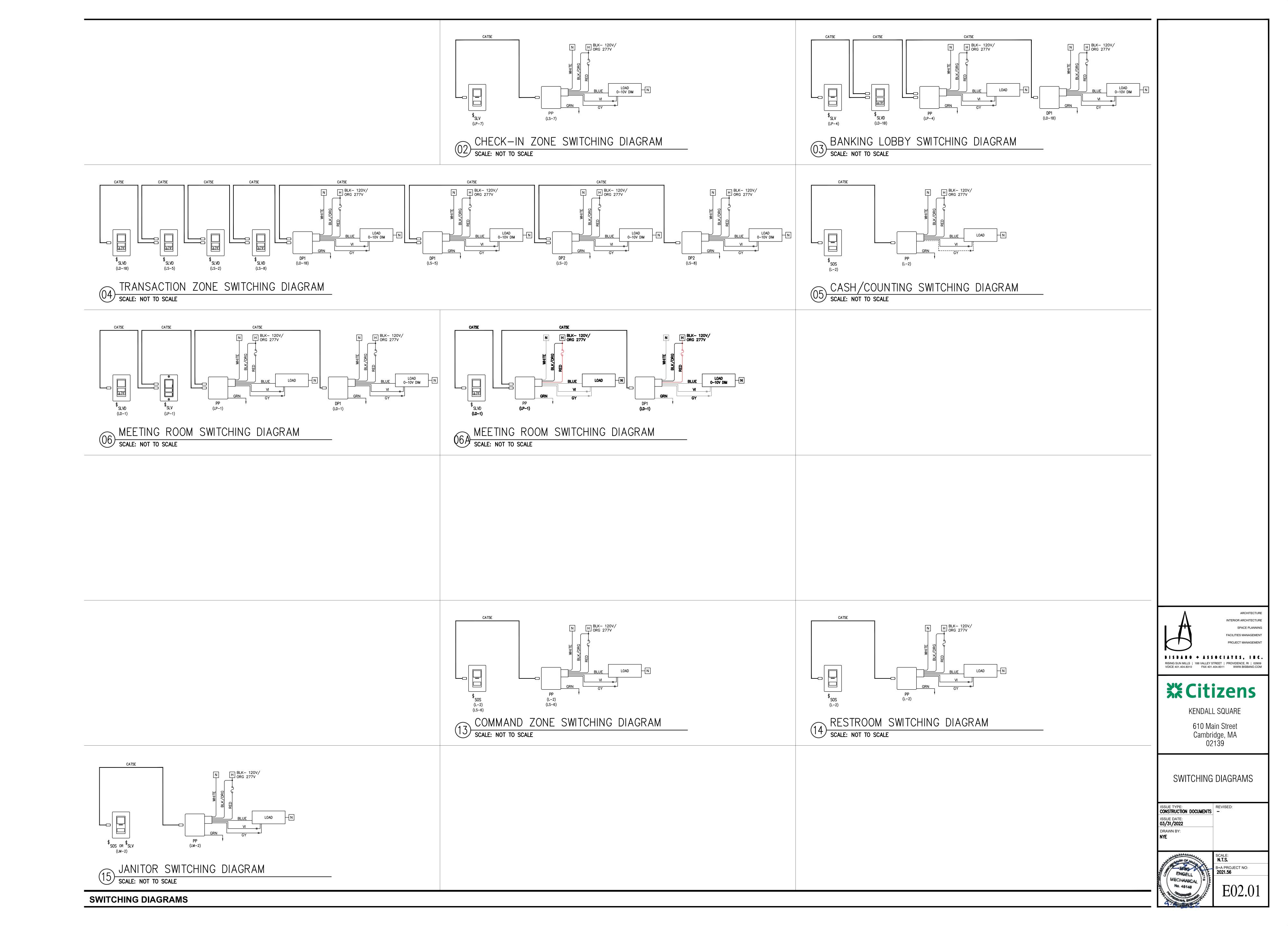
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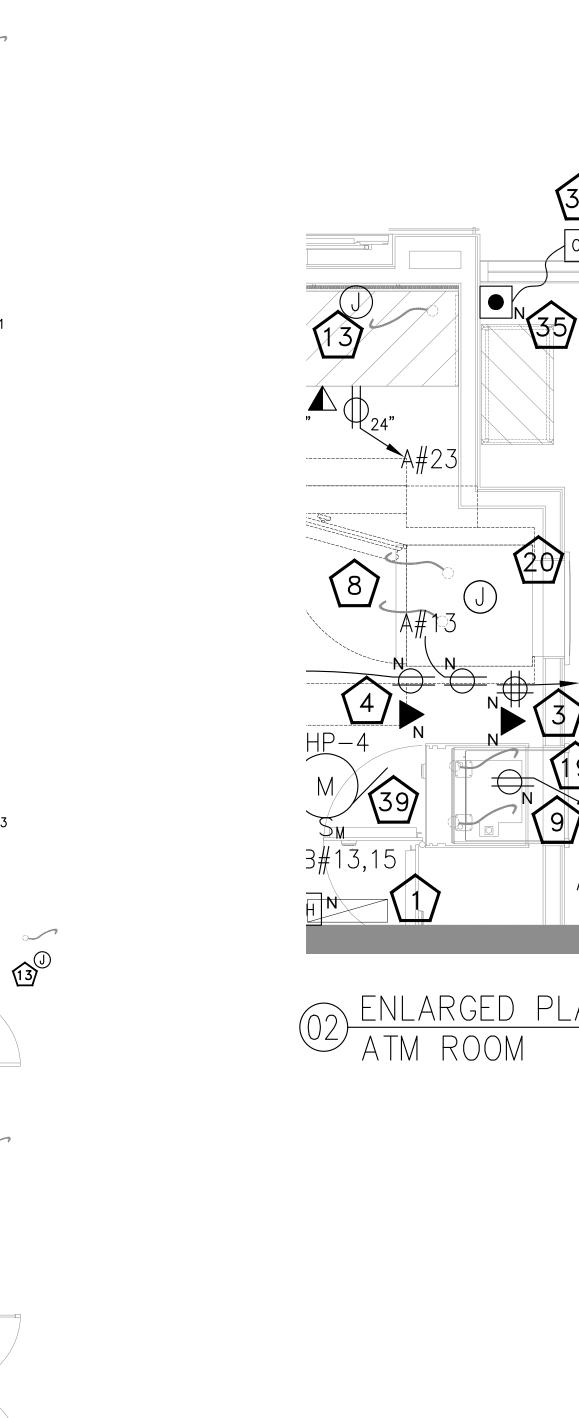
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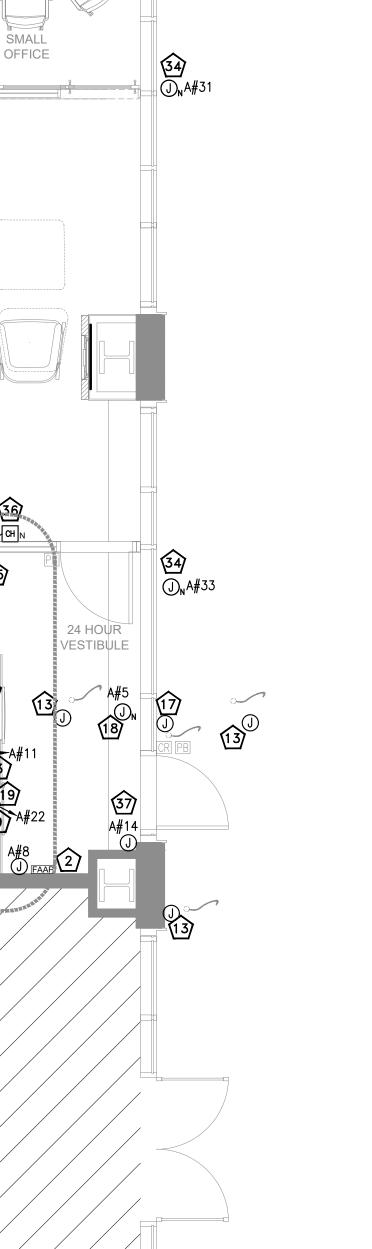




POWER PLAN GENERAL NOTES

2. E.C. TO COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION AND POWER REQUIREMENT OF EXISTING AND NEW MECHANICAL EQUIPMENTS IN FILED. ACCORDINGLY PROVIDE THE ELECTRICAL CONNECTIONS TO THE EQUIPMENTS.





_____A#29

WAITING ZONE

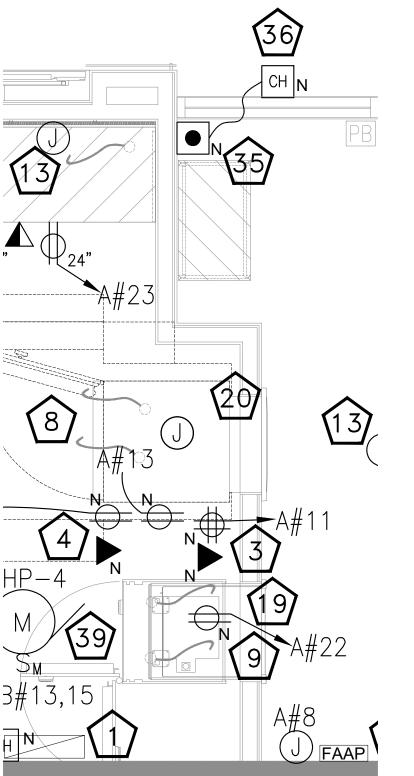
CHECK IN ZONE

ATM/HOTEL/ COMMAND ZONE

41 (JEDH-1

27 ∕A#28 ⊕

1. E.C. TO VERIFY THE EXISTING CIRCUIT, PANEL AND ELECTRICAL CONNECTIONS TO EXISTING MECHANICAL AND ALL OTHER EXISTING EQUIPMENTS IN FIELD. REPLACE ELECTRICAL CONNECTION IF FOUND INOPERABLE. E.C. TO REROUTE THE EXISTING ELECTRICAL CONNECTION FOR EXISTING EQUIPMENTS AS PER PANEL SCHEDULE IF REQUIRED. INFORM ENGINEER FOR ANY DISCREPANCY. BASE BID ACCORDINGLY.



POWER PLAN KEYED WORK NOTES

- NEW 208/120V ELECTRICAL PANEL "A". E.C. TO CO-ORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATION OF PANEL.
- NEW FIRE ALARM ANUNCIATOR PANEL. E.C. TO COORDINATE WITH LIFE SAFETY/FA DRAWINGS.
- BURGLAR ALARM CONTROL PANEL AND VESTIBULE ACCESS CONTROL PANEL. PROVIDE (1) 110V QUAD RECEPTACLE AND (1) SINGLE DATA OUTLET FOR BURGLAR ALARM PANEL. PROVIDE (1) 110V DUPLEX RECEPTACLE FOR VESTIBULE ACCESS CONTROL PANEL. E.C. SHALL COORDINATE FOR EXACT LOCATION AND MOUNTING HEIGHT WITH CITIZENS SECURITY DRAWINGS.
- PROVIDE (1) 110V DUPLEX RECEPTACLE FOR NETWORK VIDEO RECORDER, (1) SINGLE DATA OUTLET FOR NETWORK VIDEO RECORDER AND (1) 110v DUPLEX RECEPTACLE FOR POE SWITCH. E.C. SHALL COORDINATE FINAL REQUIREMENTS AND MOUNTINGS WITH CITIZENS SECURITY DRAWINGS.
- PROVIDE 27 CABLE FOR KEYPAD , WIRED BACK TO BURGLAR ALARM CONTROL PANEL. E.C. SHALL COORDINATE WITH SECURITY DRAWINGS FOR EXACT REQUIREMENTS.
- 6 NOT USED PROVIDE 2 CABLE FOR AMBUSH CANCEL BUTTON, WIRED BACK TO BURGLAR ALARM CONTROL PANEL. E.C.
- SHALL COORDINATE WITH SECURITY DRAWINGS FOR EXACT REQUIREMENTS. 22/4 CABLE FOR ATM POINT OF CONNECTION, DOOR CONTACT AND HEAT/VIBE CONNECTION. WIRED BACK TO BURGLAR ALARM CONTROL PANEL. E.C. SHALL CO-ORDINATE WITH SECURITY DRAWINGS FOR EXACT
- PROVIDE 22 CABLE FOR NIGHT DEPOSIT POINT OF CONNECTION, DOOR CONTACT AND HEAT/VIBE CONNECTION. WIRED BACK TO BURGLAR ALARM CONTROL PANEL. E.C. SHALL COORDINATE WITH SECURITY VENDOR ALSO VERIFY EXACT POWER REQUIREMENTS AND MOUNTING.
- | (10)| Provide $\frac{22}{4}$ Cable for safe point of connection, door contact and heat/vibe connection. Wired BACK TO BURGLAR ALARM CONTROL PANEL. E.C. SHALL COORDINATE WITH SECURITY VENDOR ALSO VERIFY
- | (1) | PROVIDE (1) 22/4 CABLE FOR EACH TCR POINT OF CONNECTION, DOOR CONTACT (UPPER & LOWER) AND (1) 22/4 CABLE CABLE FOR EACH TCR POINT OF CONNECTION, HEAT/VIBE. WIRED BACK TO BURGLAR ALARM CONTROL PANEL. E.C. SHALL COORDINATE WITH SECURITY VENDOR ALSO VERIFY EXACT POWER REQUIREMENTS AND MOUNTING.
- NEW 208/120V ELECTRICAL PANEL "B". E.C. TO CO-ORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATION OF PANEL.
- PROVIDE CAT 6 CABLING FOR SECURITY CAMERAS. PROVIDE AN ADDITIONAL 6 FEET OF CABLING AT EITHER END OF CONNECTION FOR POSSIBLE FUTURE RELOCATION. E.C. SHALL COORDINATE WITH ARCHITECTURAL BRANCH SECURITY PLAN (A03.02) FOR EXACT REQUIREMENTS.
- PROVIDE (1) 110V DUPLEX RECEPTACLE FOR 17" SECURITY VIDEO MONITOR. FINAL LOCATION AND POWER REQUIREMENTS TO BE COORDINATED WITH CITIZENS SECURITY DRAWINGS. PROVIDE RG-59 COAX CABLE WIRED FROM 17" SECURITY VIDEO MONITOR BACK TO NETWORK VIDEO RECORDER. IF MULTIPLE SECURITY VIDEO MONITORS ARE USED WITHIN A SITE, CONNECT THIS CABLE TO A SPLITTER AT THE NETWORK VIDEO RECORDER HEAD CONNECTION. E.C. SHALL COORDINATE WITH SECURITY DRAWINGS FOR EXACT REQUIREMENTS.
- 15 NOT USED

REQUIREMENTS.

EXACT POWER REQUIREMENTS AND MOUNTING.

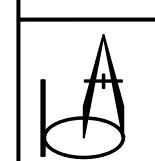
- PROVIDE COMPOSITE CABLES CONSISTING OF 18, 18, 22 AND 16 CABLES FROM PARABIT READER TO EXIT DEVICE/LATCH CONTROLLER. SEE DOOR & HARDWARE SCHEDULE FOR EXIT DEVICE SPECIFICATIONS. PROVIDE $\frac{18}{2}$ CABLE FOR PARABIT READER SWITCH OVERRIDE.
- PROVIDE (2) 22 CABLES FOR PARABIT READER WIRED BACK TO BURGLAR ALARM CONTROL.
- PROVIDE JUNCTION BOX ABOVE CEILING FOR ELECTRIFIED DOOR LOCK. E.C. SHALL VERIFY EXACT POWER REQUIREMENTS WITH MANUFACTURER/OWNER.
- NOT USED
- PROVIDE JUNCTION BOX ABOVE CEILING ON ATM ROOM SIDE CENTERED ABOVE ATM UNIT FOR ILLUMINATED ATM SURROUND/GLOW WALL APPLICATION. E.C. TO COORDINATE WITH OWNER/ARCHITECT FOR EXACT
- PROVIDE JUNCTION BOX ABOVE CEILING FOR ILLUMINATED CHECK IN ZONE LETTER SET. E.C. SHALL COORDINATE WITH ARCHITECT/OWNER FOR EXACT REQUIREMENTS.
- POWER AND DATA RECEPTACLE FOR TELLER WORKSTATION. E.C. SHALL COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH TELLER MILLWORK VENDOR/OWNER.
- PROVIDE (2) 1" CONDUIT WITH PULL STRING STUBBED FROM 6" ABOVE NEAREST ACCESSIBLE CEILING TO A DUAL GANG JUNCTION BOX BELOW TELLER LINE (1) CONDUIT FOR POWER AND (1) CONDUIT SECURITY WIRING. ALSO PROVIDE (1) 2" CONDUIT WITH PULL STRING STUBBED FROM 6" NEAREST ACCESSIBLE CEILING TO A DUAL GANG JUNCTION BOX BELOW TELLER LINE DATA. E.C. SHALL COORDINATE WITH ARCHITECT FOR EXACT LOCATION.
- NOT USED
- PROVIDE (1) DUPLEX RECEPTACLE ON 20A DEDICATED CIRCUIT AND (1) DUAL DATA RECEPTACLE FOR FUTURE OR DAY 1 TCR UNIT. E.C. SHALL COORDINATE EXACT MOUNTING AND POWER REQUIREMENTS WITH
- POWER AND DATA RECEPTACLES. E.C. SHALL COORDINATE EXACT MOUNTING HEIGHTS AND LOCATION WITH
- PROVIDE (1) QUAD RECEPTACLE FOR MUSIC SYSTEM POWER SUPPLY. E.C. SHALL COORDINATE FINAL
- REQUIREMENTS AND MOUNTINGS WITH CITIZENS SECURITY DRAWINGS. PROVIDE JUNCTION BOX FOR INTERIOR ILLUMINATED SIGNAGE. E.C. SHALL VERIFY EXACT POWER
- 29 Provide floor box/poke thru device for check-in desk locations where specified. E.C. to
- COORDINATE FOR EXACT LOCATION AND REQUIREMENT WITH ARCHITECTURE/OWNER. FOR FLOOR BOX LOCATION
- MAIN UNIT: LEGRAND WIREMOLD EVOLUTION SERIES, 4 GANG RFB4E/RFB4E-OG
- DUPLEX RECEPTACLE BRACKET: RFB6DP (1 QTY) COMMUNICATION BRACKET: RFB6GFI (1 QTY)
- SURFACE STYLE COVER: 6CTC2SN (1 QTY) FOR POKE-THRU LOCATIONS:

REQUIREMENTS WITH MANUFACTURER/OWNER.

- MAIN UNIT: LEGRAND WIREMOLD EVOLUTION SERIES, 6", 6ATC2PAVSN
- DATA DEVICE MOUNTING PLATE: 682A SURFACE STYLE COVER: 6CTC2SN (1 QTY.)
- PROVIDE JUNCTION BOX ABOVE CEILING FOR CONNECTION TO POWERED DIRTT DEMOUNTABLE PARTITION, PROVIDED BY CITIZENS. GC TO COORDINATE FINAL PLACEMENT REQUIREMENTS WITH DIRTT VENDOR.
- 32) PROVIDE POWER AND DATA RECEPTACLE FOR WALL MOUNTED MONITORS. PROVIDE HDMI RECEPTACLE AND DIRECT CONNECTION BACK TO WALL MOUNTED MONITOR. HDMI RECEPTACLE TO BE GRAINER 1 GANG HDMI WALL PLATE IN WHITE. ITEM#14J380, MODEL#7330. COORDINATE EXACT MOUNTING AND REQUIREMENTS
- WITH ARCHITECT/OWNER. NOT USED

DOORBELL SPECIFICATION.

- PROVIDE JUNCTION BOX FOR EXTERIOR ILLUMINATED SIGNAGE. E.C. SHALL VERIFY EXACT POWER REQUIREMENTS WITH MANUFACTURER/OWNER. THIS IS TO BE CONTROLLED BY BMS/PHOTOCELL.
- ROUNTED CONDITIONS & PROVIDE WIRELESS DOORBELL BUTTON AT 42" AFF IN WALL MOUNTED CONDITIONS & UNDERCOUNTER AT TELLER MILLWORK CONDITIONS. REFER TO A12.00 SERIES DRAWINGS FOR PLACEMENT AT TELLER MILLWORK CONDITIONS. REFER TO A07.00 SERIES DRAWINGS FOR
- PROVIDE WIRELESS DOORBELL CHIME 6" ABOVE ACCESSIBLE CEILING CONNECTED TO
- 120V,1PH,60HZ, JUNCTION BOX FOR AUTOMATIC DOOR OPERATION SYSTEM. E.C. TO COORDINATE WITH ARCHITECTURE/MANUFACTURER OF AUTOMATIC DOOR OPERATION SYSTEM FOR SPECIFICATION AND
- REQUIREMENT.
- JUNCTION BOX FOR NEW INDOOR SPLIT HEAT PUMP UNIT WHICH ARE POWERED THROUGH EXISTING OUTDOOR AC UNIT. E.C. TO MAKE ELECTRICAL CONNECTION IN FIELD IN COORDINATION WITH ARCHITECTURE AND MECHANICAL CONTRACTOR.
- EXHAUST FAN IN THE ROOM SHALL BE CIRCUITED AND CONTROLLED ALONG WITH LIGHT FIXTURE IN THE
- E.C. SHALL CO-ORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION AND POWER REQUIREMENTS OF MECHANICAL EQUIPMENTS.



INTERIOR ARCHITECTURE SPACE PLANNING FACILITIES MANAGEMENT PROJECT MANAGEMENT

BISBANO + ASSOCIATES, INC. RISING SUN MILLS | 188 VALLEY STREET | PROVIDENCE, RI | 02909 VOICE 401.404.8310 FAX 401.404.8311 WWW.BISBANO.COM



KENDALL SQUARE 610 Main Street

Cambridge, MA

ELECTRICAL POWER PLAN

ISSUE TYPE: REV
CONSTRUCTION DOCUMENTS -



 $1/4^{\circ} = 1'-0^{\circ}$ B+A PROJECT NO: **2021.56**

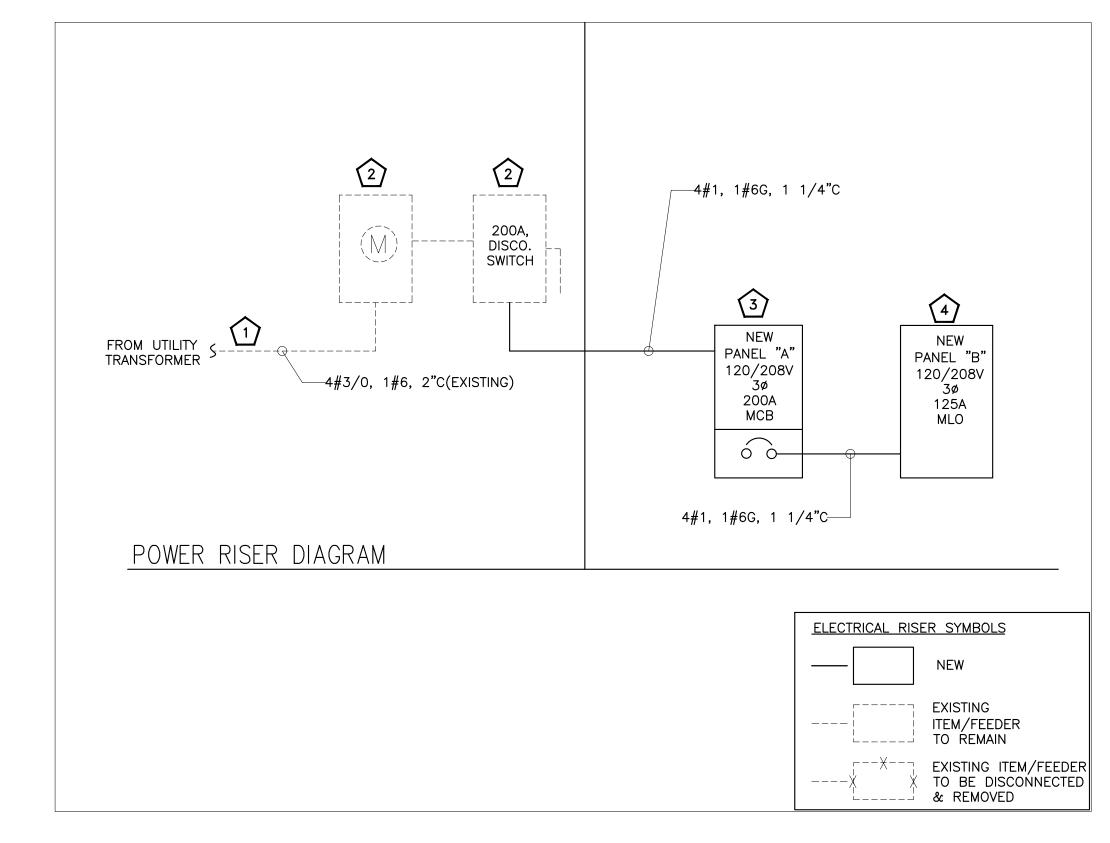
OFFICE

PANEL:	A (NEW	<u>()</u>												MOUNTING:	SURFACE		
08Y/120	VOLTS,		3	PHASE,			4	WIRE						PANEL LOCATION:	COMMAND ZONE		
IAIN CB:	200A					BUS:	225 A	MIN,						FED FROM:	MAIN SERVICE		
OTE:																	
CKT NO.	TRIP AMPS		DES	SCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PE A	R PHASE (K\ B	VA)	MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE		N OF LOAD	TRIP AMPS	C
1	20			COMMAND ZONE, RESTROOM, CASH CY LIGHT AND EXIT SIGN	L	0.50	2#12, #12G, 3/4"C	1.30			2#12, #12G, 3/4"C	0.80	L	LIGHTING- TRANSACTION ZONE, WA EMERGENCY LIGHTING, EXIT SIGN	ITING ZONE,CHECK IN ZONE,	20	
3	20	LIGHTING- LARGE OFF		CE,MEDIUM SMALL OFFICE, WEALTH,	L	0.50	2#12, #12G, 3/4"C		0.68		2#12, #12G, 3/4"C	0.18	L	INTERIOR SIGNAGE		20	
5	20	ELECTRIC L	OCK		R	1.00	2#12, #12G, 3/4"C			1.00				SPARE		20	
7	20	OFFICES RI	ECEPTACLE		R	0.36	2#12, #12G, 3/4"C	0.86			2#12, #12G, 3/4"C	0.50	R	RECEPTACLE - POWER TO FAAP PAN	EL	20	
9	20	OFFICES RI	ECEPTACLE		R	0.54	2#12, #12G, 3/4"C		0.90		2#12, #12G, 3/4"C	0.36	R	CHECK IN DESK FLOORBOX/POKE TH	RU	20	T
11	20	BACP - BUI	RGLER ALARI	M CONTROL PANEL	R	1.00	2#12, #12G, 3/4"C			1.50	2#12, #12G, 3/4"C	0.50	L	ILLUMINATED CHECK IN ZONE LETTE	R SET	20	Т
13	20	VACP - VES	STIBULE ACC	ESS CONTROL PANEL	R	1.00	2#12, #12G, 3/4"C	2.00			2#12, #12G, 3/4"C	1.00	М	J-BOX FOR AUTOMATIC DOOR OPER	ATION SYSTEM	20	
15	20	COMMANI	D ZONE RECE	PTACLE	R	0.72	2#12, #12G, 3/4"C		1.26		2#12, #12G, 3/4"C	0.54	R	RECEPTACLE-TRANSACTION ZONE		20	Т
17	20	GFI RECEP	TACLE -REST	ROOM	R	0.18	2#12, #12G, 3/4"C			1.08	2#12, #12G, 3/4"C	0.90	R	RECEPTACLE-TRANSACTION ZONE		20	T
19	20	RESTROON	/I HAND DRY	ER	Е	1.00	2#12, #12G, 3/4"C	1.18			2#12, #12G, 3/4"C	0.18	R	COMMAND ZONE WORK STATION		20	Т
21	20	MONITOR-	· WAITING ZO	DNE	R	0.54	2#12, #12G, 3/4"C		0.90		2#12, #12G, 3/4"C	0.36	R	NVR,POE RECEPTACLE		20	T
23	20	ATM FRON	IT, ILLUMON	ATED SIGN	R	0.54	2#12, #12G, 3/4"C			1.44	2#12, #12G, 3/4"C	0.90	R	RECEPTACLE-CASH COUNTING		20	T
25	20	IG RECEPTA	ACLE FOR AT	M	R	0.72	2#12, #12G, 3/4"C	1.08			2#12, #12G, 3/4"C	0.36	R	RECEPTACLE-CASH COUNTING (17" \	/IDEO RECORDER,PRINTER)	20	Т
27	20	TELLER WO	ORK STATION	I	R	0.90	2#12, #12G, 3/4"C		1.26		2#12, #12G, 3/4"C	0.36	R	QUAD RECEPTACLE IN CASH COUNTI	NG FOR MUSIC	20	T
29	20	EXTERNAL	SIGNAGE		R	1.00	2#12, #12G, 3/4"C			2.80	2#12, #12G, 3/4"C	1.80	R	FUTURE OR DAY 1 TCR UNIT		20	T
31	20	EXTERNAL	SIGNAGE		R	1.00	2#12, #12G, 3/4"C	1.36			2#12, #12G, 3/4"C	0.36	R	RECEPTACLE-COMMAND ZONE (17"	VIDEO RECORDER,PRINTER)	20	T
33	20	EXTERNAL	SIGNAGE		R	1.00	2#12, #12G, 3/4"C		1.00					SPARE		20	T
35	20	SPARE								0.00				SPARE		20	Г
37	20	SPARE						8.11				8.11	0				
39	20	SPARE							8.11		4#1, 1#6, 1 1/4"C	8.11	0	TO PAI	NEL B	125/3P	
41	20	SPARE								8.11		8.11	0				
				TOTAL LOAD (KVA)				15.89	14.11	15.93							

PANEL:	B (NEW)													MOUNTING: SURFACE		
208Y/120	VOLTS,		3	PHASE,			4	WIRE						PANEL LOCATION: COMMAND 2	ZONE	
MLO	125A					BUS:	125A	MIN,						FED FROM: PANEL A		
NOTE:			•	•												
CKT NO.	TRIP AMPS		DESCRIPTI	ON OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PEI	R PHASE (K	(VA)	MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
1	10/05				М	2.40	2112 1142 2 2/4112	3.14	_		21/42 1/42 0 2/4110	0.74	Н	500.4	20/25	2
3	40/2P	HP-1			М	2.40	3#8, #10G, 3/4"C		3.14		2#12, #12G, 3/4"C	0.74	Н	- EBB-1	20/2P	4
5	20/2P	HP-2			Н	1.20	2#12, #12G, 3/4"C			1.70	2#12, #12G, 3/4"C	0.50	Н	EBB-2	20/2P	6
7	20/21	ПР-2			Н	1.20	2#12, #12G, 3/4 C	1.70			2#12, #120, 3/4 C	0.50	Н	EDD-2	20/21	8
9	20/2P	HP-3			Н	0.70	2#12, #12G, 3/4"C		1.20		2#12, #12G, 3/4"C	0.50	Н	EBB-3	20/2P	10
11	20, 2.	3			Н	0.70				1.20		0.50	Н			12
13	20/2P	HP-4			Н	0.70	2#12, #12G, 3/4"C	0.80			2#12, #12G, 3/4"C	0.10	М	TF-1	20	14
15	,				Н	0.70	, , ,		0.70					SPARE	20	16
17	20/2P	EWH-1			Н	0.37	2#12, #12G, 3/4"C			0.37				SPARE	20	18
19	-				Н	0.37		0.37					1	SPARE	20	20
21	30/2P	EDH-1			Н	2.5	2#10, #10G, 3/4"C		2.50					SPARE	20	22
23		0.54			Н	2.5	21142 11420 2/4110	0.10		2.50			<u> </u>	SPARE	20	24
25	20	OAF-1			Н	0.19	2#12, #12G, 3/4"C	2.19	2.40		2#10, #10G, 3/4"C	2.00	H	WH-1	30/2P	26
27	20	RCP-1	R BMS PANE		H	0.10	2#12, #12G, 3/4"C		2.10	0.72		2.00	Н	CDADE	20	28
29	20 20	SPARE	K BIVIS PAINE	L	R	0.72	2#12, #12G, 3/4"C			0.72 0.00				SPARE SPARE	20	30
31	20	SPARE						0.00		0.00			+	SPARE	20	34
35	20	SPARE						0.00	0.00				1	SPARE	20	36
37	20	SPARE							0.00	0.00				SPARE	20	38
39	20	SPARE						0.00		0.00				SPARE	20	40
41	20	SPARE						2.00	0.00					SPARE	20	42
	l	I		TOTAL LOAD (KVA)			8.20	9.64	6.49					<u> </u>	

PANEL SCHEDULE GENERAL NOTES:

- A. ELECTRICAL CONTRACTOR TO VERIFY THE EXACT PANEL SIZES, RATING AND INCOMING FEEDER SIZE IN FIELD. INFORM ENGINEER FOR ANY DISCREPANCY BEFORE COMMENCING ANY WORK.
- B. E.C. SHALL VERIFY OPERABLE CONDITION OF EXISTING PANEL, CABLE, FEEDERS, CIRCUIT BREAKER, METER, DISCONNECT SWITCH ETC. IN FIELD. REPLACE IN FOUND INOPERABLE. BASE BID ACCORDINGLY.

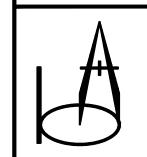


ELECTRICAL RISER KEYED WORK NOTES:

- 1. EXISTING 200A, 120/240V, 3-PHASE SERVICE FEEDER FROM UTILITY COMPANY/BASE BUILDING SWITCHGEAR.
- 2. EXISTING 200A, 120/208V, 3 PHASE METER AND DISCONNECT SWITCH FOR THE SPACE PROVIDED BY LANDLORD. E.C. TO VERIFY RATING AND OPERABLE CONDITIONS IN FIELD. INFORM ENGINEER ON RECORD FOR ANY DISCREPANCY. E.C. SHALL COORDINATE WITH CITIZEN'S REPRESENTATIVE/LANDLORD FOR EXACT LOCATION OF METER AND DISCONNECT SWITCH. E.C. TO VERIFY THE SCOPE OF WORKS PRIOR TO BIDDING.
- 3. NEW 200A, 120/208V, 3-PHASE ELECTRICAL PANEL "A". E.C. SHALL COORDINATE EXACT LOCATION WITH ARCHITECT/CITIZEN'S REPRESENTATIVE.
- 4. NEW 125A, 120/208V, 3-PHASE ELECTRICAL PANEL "B". E.C. SHALL COORDINATE EXACT LOCATION WITH ARCHITECT/CITIZEN'S REPRESENTATIVE.

GENERAL NOTE:

- A. ELECTRICAL CONTRACTOR TO COORDINATE FAULT CURRENT (Isc) RATING WITH UTILITY COMPANY AND AHJ PRIOR TO COMMENCING ANY WORK.
- B. E.C. TO VERIFY EXACT POWER DISTRIBUTION IN FIELD AND INFORM ENGINEER ON RECORD FOR ANY DISCREPANCY.
- C. E.C. TO VERIFY INCOMING SERVICE AMPERAGE AND FEEDER SIZE IN FIELD.



INTERIOR ARCHITECTURE SPACE PLANNING FACILITIES MANAGEMENT PROJECT MANAGEMENT

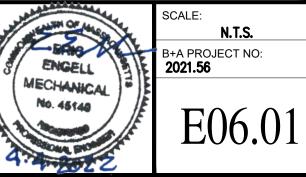
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KENDALL SQUARE

610 Main Street Cambridge, MA

ELECTRICAL RISER DIAGRAM AND PANEL SHEDULE

ISSUE TYPE: REVISED: -



FIRE ALARM SYSTEM

A. DESCRIPTION:

- 1. THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND PLACE IN OPERATING CONDITION, A COMPLETE FIRE ALARM SYSTEM AS SPECIFIED IN THIS SECTION, TO INCLUDE THE FURNISHING OF ALL LABOR, EQUIPMENT, MATERIALS AND THE PERFORMANCE OF ALL OPERATIONS ASSOCIATED WITH THE INSTALLATION OF THE FIRE ALARM SYSTEM, AS SHOWN ON THE CONTRACT DRAWINGS AND HEREIN SPECIFIED.
- 2. THE COMPLETE SYSTEM INSTALLATION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE NATIONAL FIRE SAFETY CODE, THE (ADA) AMERICAN DISABILITIES ACT, THE NATIONAL ELECTRICAL CODE, REQUIREMENTS, AND ALL THE REQUIREMENTS OF THE LOCAL FIRE DEPARTMENT.
- 3. THE REQUIREMENTS OF THE GENERAL CONDITIONS AND THE SUPPLEMENTARY CONDITIONS OF THE CONTRACT DOCUMENTS SHALL APPLY TO ALL WORK SPECIFIED IN THIS SECTION.
- 4. THE WORK COVERED UNDER THIS SECTION OF THE CONTRACT SPECIFICATIONS SHALL BE COORDINATED WITH ALL OTHER WORK SPECIFIED IN THE OTHER SECTIONS OF THE CONTRACT SPECIFICATIONS.
- THE FIRE ALARM SYSTEM DESCRIBED HEREIN AND AS SHOWN ON THE PLANS; SHALL BE WIRED, CONNECTED, TESTED AND LEFT IN FIRST CLASS OPERATING CONDITION. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE PROPER CONTROL EQUIPMENT, CONTROL INTERFACE ANNUNCIATORS, ALARM INITIATING DEVICES, ALARM NOTIFICATION APPLIANCES, WIRING, TERMINATIONS, ELECTRICAL BOXES, AND ALL OTHER NECESSARY MATERIALS FOR A COMPLETE OPERATING SYSTEM.
- 6 THE FIRE ALARM SYSTEM SHALL BE A MICROPROCESSOR BASED SYSTEM ALLOWING FOR EDITING OF THE SOFTWARE PROGRAM FOR CHANGES IN SYSTEM OPERATION. THE SYSTEM SHALL BE CAPABLE OF ON-SITE PROGRAMMING TO ACCOMMODATE SYSTEM CHANGES AND/OR SYSTEM EXPANSIONS. ALL SOFTWARE OPERATIONS SHALL BE STORED IN NON-VOLATILE, FLASH PROM MEMORY. LOSS OF THE SYSTEM'S PRIMARY AND/OR SECONDARY POWER SOURCES SHALL NOT RESULT IN A LOSS OF THE SYSTEM SOFTWARE PROGRAMS. FIELD PROGRAMMING SHALL NOT BE LOST IN THE EVENT OF MAIN AND/OR BATTERY POWER
- 7. FULL FLEXIBILITY FOR SELECTIVE INPUT-OUTPUT CONTROL FUNCTIONS BASED ON ANDING, ORING, NOTING, TIMING, AND SPECIAL CODED OPERATIONS SHALL ALSO BE INCORPORATED IN THE RESIDENT SOFTWARE PROGRAM OF THE SYSTEM.

B. SYSTEM OPERATION

- THE SYSTEM OPERATION SUBSEQUENT TO THE ACTIVATION OF ANY MANUAL OR AUTOMATIC ALARM INITIATING DEVICE SHALL BE AS FOLLOWS:
- A. ALL AUDIBLE VISUAL ALARM INDICATING APPLIANCES SHALL SOUND AT THE NEW FIRE ALARM PANEL AND AT THE REMOTE ANNUNCIATOR UNTIL SILENCED BY THE ALARM SILENCE
- B. THE ALARM SHALL BE DISPLAYED ON AN 80-CHARACTER LCD DISPLAY. THE TOP LINE OF 40 CHARACTERS SHALL BE THE POINT LABEL, AND THE SECOND LINE SHALL BE THE DEVICE TYPE IDENTIFIER. THE SYSTEM ALARM LED SHALL FLASH ON THE CONTROL PANEL UNTIL THE ALARM HAS BEEN ACKNOWLEDGED. ONCE ACKNOWLEDGED, THIS SAME LED SHALL LATCH ON. A SUBSEQUENT ALARM RECEIVED FROM ANOTHER ZONE SHALL FLASH THE SYSTEM ALARM LED ON THE CONTROL PANEL. THE LCD DISPLAY SHALL SHOW THE NEW ALARM INFORMATION, AT THE CONTROL PANEL.
- TRANSMIT A SIGNAL FROM THE CONTROL PANEL VIA AN RS232 SERIAL PORT, TO PRINT THE SYSTEM STATUS CHANGES ON THE REMOTE SYSTEM PRINTER.
- D. ACTIVATE THE MUNICIPAL CONNECTION VIA THE RADIO MASTER
- E. ACTIVATE CONTROL RELAYS LOCATED WITHIN AN EXTERNAL CONTROL CABINET LOCATED NEXT TO THE FIRE ALARM CONTROL PANEL SPECIFIED. IN ADDITION TO BUILDING EVACUATION THE FOLLOWING AUXILIARY CONTROL AND INTERFACE FUNCTIONS SHALL BE PROVIDED BY THE SPECIFIED
- 1. SELECTIVE AUTOMATIC HVAC FAN SHUTDOWN AND MANUAL (HOA)
- RELEASE OF MAGNETIC DOOR HOLDER. 3. CAPTURE AN ALTERNATE FLOOR RECALL OF SPECIFIED ELEVATORS.

C. SYSTEM SUPERVISION:

- 1. THE SYSTEM SHALL BE PROVIDED WITH STYLE 6 (SLC) ADDRESSABLE DEVICE COMMUNICATION CIRCUITS, STYLE D (IDC) INITIATING DEVICE CIRCUITS AND (STYLE Z) NOTIFICATION APPLIANCE CIRCUITS. ALL SYSTEM FAULTS SHALL BE INDICATED AND DISPLAYED AT THE CONTROL PANEL.
- 2. THE SYSTEM SHALL BE PROVIDED WITH A STANDBY BATTERY SET OR SETS, WITH SUFFICIENT CAPACITY TO OPERATE THE ENTIRE SYSTEM UPON LOSS OF NORMAL OPERATING POWER, FOR A TIME PERIOD OF *RHODE ISLAND*: (60) HOURS IN SUPERVISORY MODE, WITH (15) MINUTES OF ALARM AT THE END OF THE (60) HOUR TIME PERIOD. THE STANDBY BATTERY SET SHALL BE CHARGED, LOAD TESTED AND MONITORED FOR EITHER A DISCONNECTED OR LOW BATTERY STATUS CONDITION BY THE SYSTEM. ANY FAULT DETECTED WITH THE STANDBY BATTERIES SHALL BE INDICATED AND DISPLAYED AT THE CONTROL

D. FIRE ALARM CONTROL PANEL

- CONTROL PANEL SHALL HAVE SOLID STATE. MICROPROCESSOR BASED ELECTRONICS USING SURFACE MOUNT TECHNOLOGY. THROUGH-PUT TECHNOLOGY WILL NOT BE ALLOWED. IT SHALL DISPLAY ONLY THOSE PRIMARY CONTROLS AND DISPLAYS ESSENTIAL TO OPERATION DURING A FIRE ALARM CONDITION. KEYBOARDS OR KEYPADS SHALL NOT BE REQUIRED TO OPERATE THE SYSTEM DURING THE FIRE ALARM CONDITIONS. THE UNIT SHALL HAVE 9 AMP POWER SUPPLY MINIMUM.
- 2. A LOCAL AUDIBLE DEVICE SHALL SOUND DURING ALARM, TROUBLE OR SUPERVISORY CONDITIONS. THIS AUDIBLE DEVICE SHALL SOUND DIFFERENTLY DURING EACH CONDITION TO DISTINGUISH ONE CONDITION FROM ANOTHER WITHOUT HAVING A VIEW THE PANEL. THIS AUDIBLE DEVICE SHALL ALSO SOUND DURING EACH KEY PRESS TO PROVIDE AN AUDIBLE FEEDBACK TO ENSURE THAT THE KEY HAS BEEN PRESSED PROPERLY.

- 3. THE FOLLOWING PRIMARY CRYSTAL DISPLAYS:
- INDIVIDUAL RED SYSTEM ALARM LED . INDIVIDUAL YELLOW SUPERVISORY SERVICE LED
- INDIVIDUAL YELLOW TROUBLE LED GREEN "POWER ON" LED
- ALARM ACKNOWLEDGE KEY . TROUBLE ACKNOWLEDGE KEY G. ALARM SILENCE KEY

H. SYSTEM RESET KEY

- 4. PRIMARY, KEYS, LED'S AND LCD DISPLAY.
- 5. THE CONTROL PANEL SHALL HAVE A 2-LINE X 40 CHARACTER LIQUID CRYSTAL DISPLAY WHICH SHALL BE BACK LIGHTED FOR ENHANCED READABILITY. SO AS TO CONSERVE BATTERY STANDBY, POWER IT SHALL NOT BE LIT DURING AN AC POWER FAILURE, UNLESS AN ALARM CONDITION OCCURS OR THERE IS KEYPAD ACTIVITY.
- 6. THE DISPLAY SHALL SUPPORT BOTH UPPER AND LOWER CASE LETTERS. LOWER CASE LETTERS SHALL BE USED FOR SHORT TITLES AND PROMPTING THE USER. UPPERCASE LETTERS SHALL BE USED FOR SYSTEM STATUS INFORMATION. A CURSOR SHALL BE VISIBLE WHEN ENTERING INFORMATION. SYSTEMS USING UPPERCASE LETTERS ONLY WILL NOT OFFER CLEAR DISTINCTION BETWEEN ALARMS AND PROGRAMMING AND ARE NOT ACCEPTABLE.
- 7. ANY SUPPLEMENTAL NOTIFICATION CONTROL PANELS SHALL BE CAPABLE OF OPERATING ALL CONNECTED NOTIFICATION APPLIANCE DEVICES THROUGHOUT THE BUILDING, AND 25 % SPARE CAPACITY FOR VISUAL AND THE HORN CIRCUITS. THEY SHALL HAVE AT A MINIMUM 12 AMPS OF AVAILABLE NAC POWER.

1. PROVIDE FIELD MOUNTED ISOLATE MODULES FOR EVERY 20 DEVICES TO PROTECT CIRCUIT INTEGRITY IN THE EVENT OF A WIRING FAULT & ENSURE STYLE 6 WIRING CONVENTIONS.

F. RESET SYSTEM

- THE SYSTEM RESET BUTTON SHALL BE USED TO RETURN THE SYSTEM TO ITS NORMAL STATE AFTER AND ALARM CONDITION HAS BEEN REMEDIED. THE LCD DISPLAY SHALL STEP THE USER THROUGH THE RESET PROCESS WITH SIMPLE ENGLISH LANGUAGE MESSAGES. MESSAGE "SYSTEM RESET IN PROGRESS" WILL FIRST BE DISPLAYED, FOLLOWED BY THE MESSAGE "SYSTEM RESET COMPLETED," AND FINALLY "SYSTEM IS NORMAL," SHOULD ALL ALARM CONDITIONS BE CLEARED. IN ORDER TO MAINTAIN CONSISTENCY WITH OTHER EXISTING PANELS, NO DEVIATION FROM THESE MESSAGES CAN BE ACCEPTED.
- 2. SHOULD AN ALARM CONDITION CONTINUE TO EXIST, THE MESSAGE 'SYSTEM RESET IN PROGRESS' WILL BE FOLLOWED BY THE MESSAGE "SYSTEM RESET ABORTED," AND THE SYSTEM WILL REMAIN IN AN ABNORMAL STATE. SYSTEM CONTROL RELAYS SHALL NOT RESET. THE SONALERT AND THE ALARM LED WILL BE ON. THE DISPLAY WILL INDICATE THE TOTAL NUMBER OF ALARMS AND TROUBLES PRESENT IN THE SYSTEM, ALONG WITH A PROMPT TO USE THE ACK KEYS TO REVIEW THE POINTS. THESE POINTS WILL NOT REQUIRE ACKNOWLEDGMENT IF THEY WERE PREVIOUSLY ACKNOWLEDGED.
- G. H.O.A. SWITCHTES 1. PROVIDE KEY PAD POSITION SWITCH AS SHOWN ON CONTRACT
- H. SILENT WALKTEST WITH HISTORY LOGGING
- 1. THE SYSTEM SHALL BE CAPABLE OF BEING TESTED BY ONE PERSON. WHILE IN THE TESTING MODE, THE ALARM ACTIVATION OF AN INITIATING DEVICE CIRCUIT SHALL BE SILENTLY LOGGED AS AN ALARM CONDITION IN THE HISTORICAL DATA FILE. THE PANEL SHALL AUTOMATICALLY RESET ITSELF AFTER LOGGING OF THE ALARM. THE SYSTEM SHALL SIGNAL THE DEVICE ZONE NUMBER THROUGH THE BUILDING AUDIBLE UNITS. FOR IMMEDIATE VERIFICATION BY THE TEST TECHNICIAN. DUE TO THE CRITICAL NATURE OF THE TEST PROCEDURES. NO DEVIATION FROM THIS SECTION CAN BE ACCEPTED.
- I. LED SUPERVISION
- 1. ALL SLAVE MODULE LEDS SHALL BE SUPERVISED FOR BURNOUT OR DISARRANGEMENT. SHOULD A PROBLEM OCCUR, THE LCD SHALL DISPLAY THE MODULE AND LED LOCATION NUMBERS TO FACILITATE LOCATION OF THE LED. DUE TO THE CRITICAL NATURE OF THE PANEL LCD FUNCTIONS, NO DEVIATION FROM THIS REQUIREMENT CAN BE ACCEPTED.

J. SYSTEM TROUBLE REMINDER

- 1. SHOULD A TROUBLE CONDITION BE PRESENT WITHIN THE SYSTEM AND THE AUDIBLE TROUBLE SIGNAL SILENCED, THE TROUBLE SIGNAL SHALL RESOUND AT PREPROGRAMMED TIME INTERVALS TO ACT AS REMINDER THAT THE FIRE ALARM SYSTEM IS NOT 100% OPERATIONAL. BOTH THE TIME INTERVAL AND THE TROUBLE REMINDER SIGNALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE BUILDING CODE AND NFPA 72 AS REFERENCED.
- K. MULTIPLE ADDRESSABLE PERIPHERAL NETWORK
- 1. PROVIDE ADDRESSABLE CIRCUITS FOR COMMUNICATION WITH ADDRESSABLE DEVICES. SYSTEM SHALL HAVE AN INDEPENDENT ISOLATED ADDRESSABLE LOOPS, UP TO 318 ADDRESSABLE DEVICES.
- 2. THE SYSTEM MUST PROVIDE COMMUNICATION WITH INITIATING AND CONTROL DEVICES INDIVIDUALLY. ALL OF THESE DEVICES WILL BE INDIVIDUALLY ANNUNCIATED AT THE CONTROL PANEL.
- ANNUNCIATION SHALL INCLUDE THE FOLLOWING CONDITIONS FOR EACH POINT.
- A. ALARM B. TROUBLE OPEN
- D. SHORT E. DEVICE MISSING/FAILED
- 4. ALL ADDRESSABLE DEVICES SHALL HAVE THE CAPABILITY OF BEING DISABLED OR ENABLED INDIVIDUALLY.
- 5. UP TO 318 ADDRESSABLE DEVICES ON A CLASS A CIRCUIT. SYSTEMS THAT REQUIRE FACTORY RE-PROGRAMMING TO ADD OR DELETE SERVICES ARE UNACCEPTABLE.
- 6. IDENTIFICATION OF ADDRESSABLE DEVICES.
- L. PHOTOELECTRIC DETECTOR HEAD
- 1. PROVIDE PHOTOELECTRIC TYPE DETECTORS, WHERE INDICATED OR REQUIRED. THEY SHALL BE A PLUG-IN UNIT WHICH MOUNTS TO A TWISTLOCK BASE, AND SHALL BE UL APPROVED.
- THE DETECTORS SHALL BE OF THE SOLID STATE PHOTOELECTRIC TYPE AND SHALL CONTAIN NO RADIOACTIVE MATERIAL. THEY WILL USE A REFRACTED INFRARED LED LIGHT SOURCE AND BE SEALED AGAINST REAR AIR FLOW ENTRY.

- 3. THE DETECTOR SHALL FIT INTO A BASE THAT IS COMMON WITH BOTH THE HEAT DETECTOR AND IONIZATION TYPE DETECTOR AND SHALL BE COMPATIBLE WITH OTHER ADDRESSABLE DETECTORS, ADDRESSABLE MANUAL STATIONS, AND ADDRESSABLE ZONE ADAPTER MODULES ON THE SAME CIRCUIT. DEVICE ADDRESSES SHALL BE CONTAINED IN THE BASE OF THE DETECTOR. THOSE SYSTEMS WHICH PROVIDE ADDRESSING IN THE HEAD, SHALL PROVIDE AN ADDRESSABLE MONITOR MODULE AND A CONVENTIONAL DETECTOR ASSEMBLY TO ALLOW THE OWNER TO REPLACE A DETECTOR HEAD WITHOUT THE NEED OF VERIFYING DETECTOR ADDRESS.
- 4. THERE SHALL BE NO LIMIT TO THE NUMBER OF DETECTORS OR ZONE ADAPTER MODULES WHICH MAY BE ACTIVATED OR "IN ALARM" SIMULTANEOUSLY.
- 5. DUE TO THE REQUIREMENT FOR IMMEDIATE CHANGE OUT OF DETECTOR HEADS ADDRESS SETTING SWITCHES, JUMPERS ETC., MAY BE PROVIDED IN THE HEAD OR BEHIND THE DETECTOR BASE. DETECTORS WHICH USE DIP SWITCHES ARE NOT ACCEPTABLE.
- 6. PROVIDE A DUCT HOUSING WITH SENSOR, WITH RELAY. THE RELAY SHALL BE SOFTWARE PROGRAMMABLE TO ALLOW THE UNIT IN WHICH THE DETECTOR IS MOUNTED IN TO BE SHUT DOWN, OR ANY OTHER DEVICE TO BE CONTROLLED BY THIS PROGRAMMABLE RELAY. THE RELAY MAY BE A SEPARATE UNIT FROM THE DUCT HOUSING TO ALLOW FOR TROUBLESHOOTING AND DISCONNECTS.
- 7. PROVIDE SAMPLING TUBE AS REQUIRED FOR UNIT SIZE.
- 8. PROVIDE A REMOTE TEST UNIT FOR EACH DUCT SMOKE DETECTOR WITH LED ALARM INDICATOR AND TEST KEY SWITCH.

M. LCD ANNUNCIATOR

- 1. PROVIDE A VGA COLOR TOUCH SCREEN LCD ANNUNCIATOR AND STATIC GRAPHIC PLOT PLAN AS SHOWN ON THE CONTRACT DRAWINGS. SUBMIT A LAYOUT OF THIS UNIT TO THE ENGINEER FOR APPROVAL. 2. PROVIDE CITY CONNECTIONS TO THE LOCAL FIRE DEPARTMENT.
- N. ADDRESSABLE THERMAL DETECTOR HEAD
- 1. PROVIDE THERMAL DETECTOR HEADS WHERE INDICATED OR REQUIRED. 2. THERMAL DETECTOR HEADS MUST BE UL LISTED. SHALL BE A
- COMBINATION RATE-OF-USE AND FIXED TEMPERATURE (135 F) TYPE, AUTOMATICALLY RESTORABLE.
- 3. PROVIDE REMOTE LED ALARM INDICATORS, AS INDICATED ON PLANS.

O. ADDRESSABLE PULL STATIONS

- PROVIDE ADDRESSABLE PULL STATIONS WHICH CONTAIN ELECTRONICS THAT COMMUNICATE THE STATION'S STATUS (ALARM, NORMAL) TO THE CONTROL PANEL OVER ONE TWISTED PAIR. THE ADDRESS WILL SET ON THE STATION. THEY WILL BE MANUFACTURED FROM HIGH IMPACT RED LEXAN. STATION WILL MECHANICALLY LATCH UPON OPERATION AND REMAIN SO UNTIL MANUALLY RESET BY OPENING WITH A KEY COMMON TO ALL SYSTEM LOCKS. PULL STATIONS WILL BE DOUBLE ACTION AND AS IDENTIFIED BY A SCHEDULE ON THE PRINTS.
- 2. THE FRONT OF THE STATION IS TO BE HINGED TO A BACKPLATE ASSEMBLY AND MUST BE OPENED WITH A KEY TO RESET THE STATION. THE KEY SHALL BE COMMON WITH THE CONTROL PANELS. STATIONS WHICH USE ALLEN WRENCHES OR SPECIAL TOOLS TO RESET WILL NOT BE ACCEPTED. THE STATION SHALL CONSIST OF HIGH IMPACT LEXAN PLASTIC, RED IN COLOR.
- 3. THE ADDRESSABLE MANUAL STATION SHALL BE CAPABLE OF FIELD PROGRAMMING OF ITS "ADDRESSABLE" LOCATION ON AN ADDRESSABLE INITIATING CIRCUIT.
- 4. THERE SHALL BE NO LIMIT TO THE NUMBER OF STATIONS, DETECTORS OR ZONE ADAPTER MODULES, WHICH MAY BE ACTIVATED OR "IN ALARM" SIMULTANEOUSLY.
- 5. THE ADDRESSABLE MANUAL STATION SHALL BE UNDERWRITER'S LABORATORIES INC. LISTED.
- 6. PROVIDE PROTECTIVE COVERS, EQUAL TO STOPPER II, WHERE REQUIRED BY THE AHJ.

P. ZONE ADAPTER MODULES

- 1. ZONE ADAPTER MODULES SHALL BE USED FOR MONITORING OF WATERFLOW, VALVE TAMPER, HALON CONTROL PANELS, NON-ADDRESSABLE DETECTORS, AND FOR CONTROL OF EVACUATION INDICATING APPLIANCES AND AHU SYSTEMS.
- 2. AN ADDRESSABLE INTERFACE MODULE SHALL BE PROVIDED FOR INTERFACING NORMALLY OPEN DIRECT CONTACT DEVICES TO AN ADDRESSABLE INITIATING CIRCUIT.
- 3. ADDRESSABLE MODULES WILL BE CAPABLE OF MOUNTING IN A STANDARD ELECTRIC OUTLET BOX. ZAMS WILL INCLUDE COVER PLATES TO ALLOW SURFACE OR FLUSH MOUNTING. ZAMS WILL RECEIVE THEIR 24 VDC POWER FROM A SEPARATE TWO WIRE PAIR RUNNING FROM AN APPROPRIATE POWER.
- 4. THERE SHALL BE TWO TYPES OF DEVICES: TYPE 1: MONITOR MODULE TYPE 2: CONTROL MODULE
- ADDRESSABLE DEVICE SUPERVISION.
- A. ALL DEVICES SHALL BE SUPERVISED FOR TROUBLE CONDITION. THE SYSTEM CONTROL PANEL WILL BE CAPABLE OF DISPLAYING THE TYPE OF TROUBLE CONDITION (OPEN, SHORT, DEVICE MISSING/FAILED). SHOULD A DEVICE FAIL, IT WILL NOT HINDER THE OPERATION OF OTHER DEVICES.
- 6. SPRINKLER FLOW, AND TAMPER SWITCHES ARE TO BE SUPPLIED AND INSTALLED BY THE SPRINKLER CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR AS REQUIRED BY THE LOCAL FIRE DEPARTMENT. EACH DEVICE SHALL BE AN ADDRESS ON THE FIRE ALARM PANEL, SO THAT THEY MAY BE PROGRAMMED AS EITHER ALARMS OR TROUBLES. PROGRAM ALL AS ALARMS ON THIS PROJECT.
- Q. AUDIBLE/VISUAL UNIT (XENON STROBE)
- PROVIDE MULTI-CANDELA HORN/STROBE UNITS COMPRISED OF A HORN AND XENON FLASH TUBE ENTIRELY SOLID STATE. THE UNIT TO CONFORM TO ITS REQUIREMENTS.
- 2. VISUAL FLASHING LAMPS (XENON STROBE)
- 3. VISUAL INDICATING APPLIANCES SHALL BE COMPRISED OF A XENON FLASH TUBE AND BE ENTIRELY SOLID STATE. THIS UNIT SHALL MOUNT TO A SINGLE GANG BOX AND PLATE FOR SURFACE MOUNT. MINIMUM OF 75 CD LIGHT OUTPUT TO CONFORM TO A.D.A. ALL STROBES SHALL BE SYNCHRONIZED.

R. MINI-HORNS

- 1. WHITE W/RED LETTERING MINI HORN WHERE INDICATED ON CONTRACT DRAWINGS. THE UNIT SHALL MOUNT TO A SINGL E, DEEP GANG BOX.
- S. STROBE LIGHT

T. MAGNETIC DOOR HOLDERS

- PROVIDE A MULTI-CANDELA STROBE APPLIANCE.
- 1. PROVIDE SEMI-FLUSH WALL MOUNTED, 120 V.A.C AND 24 V.D.C. WITH LONG CATCH PLATE.

U. BATTERIES AND BATTERY CABINET

1. PROVIDE MAINTENANCE — FREE BATTERIES.

- 1. PROVIDE ADDRESSABLE RELAY TO PROVIDE SUPERVISED CONTROL OF AUXILIARY CIRCUITS (AHU's, DOOR HOLDER's, ETC) VIA SLC ADDRESSABLE LOOP. RELAY SHALL PROVIDE SUPERVISED OUTLET FOR 3AMPS @ 30VDC OR 0.5AMPS AT 120VAC. WHERE CURRENT EXCEEDS LIMITATIONS PROVIDE ISOLATION RELAY RATED FOR
- W. INSTALLATION FIRE ALARM WIRING

REQUIRED LOAD.

- 1. ALL FIRE ALARM WIRING SHALL CONFORM TO THE APPLICABLE STATE AND LOCAL FIRE SAFETY CODES.
- WIRING SHOWN ON DRAWINGS IS FOR ESTIMATING PURPOSED ONLY. THE FINAL WIRING REQUIREMENTS SHALL BE PER THE EQUIPMENT MANUFACTURER'S WIRING DIAGRAMS AND NO INCREASE IN CONTRACT PRICE WILL BE ALLOWED FOR ANY ADDITIONAL WIRES THAT MAY BE SHOWN ON THE MANUFACTURER'S DRAWINGS.
- 3. DETAILED ONE-LINE SCHEMATIC WIRING DIAGRAMS OF EACH SPECIFIED DEVICE BETWEEN ALL SYSTEMS. THESE CONNECTION DRAWINGS ARE TO INDICATE ROUTING OF CONDUCTORS VIA THE FLOOR TERMINAL BOXES.

X. SHUTDOWNS OF ANY EXISTING SYSTEMS

THIS CONTRACTOR SHALL COORDINATE ALL REQUIRED SHUTDOWNS OF THE EXISTING FIRE ALARM SYSTEM DURING THE DURATION OF THIS CONTRACT. ALL SYSTEM SHALL BE COORDINATED WITH THE OWNER AND THE FIRE DEPARTMENT. THE FIRE ALARM SYSTEMS SHALL BE RETURNED TO A NORMAL MODE OF OPERATION BY THE END OF EACH WORKDAY. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS INCURRED FOR A FIRE WATCH IF THE SYSTEM IS NOT OPERATIONAL AT THE END OF A WORKDAY.

Y. PROGRAMMING OF SYSTEM

1. THIS CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN APPROVED ZONE AND DEVICE CUSTOM LABELS, THAT WILL BE PROGRAMMED INTO THE SYSTEM FOR ZONE AND DEVICE IDENTIFICATION PURPOSES. THE SUBJECT CUSTOM LABELS SHALL BE APPROVED BY OWNERS REPRESENTATIVE AND THE FIRE DEPT. BEFORE THEY ARE PROGRAMMED INTO THE SYSTEM.

Z. TRAINING:

- THE ELECTRICAL CONTRACTOR AND SYSTEM MANUFACTURER SHALL PROVIDE A MINIMUM OF ONE (1) ON-SITE TRAINING SESSIONS FOR THE OWNER'S REPRESENTATIVES. EACH SESSION SHALL BE A MINIMUM OF 1 HOUR.
- 2. DUE TO THE CRITICAL NATURE OF PROPER SYSTEM OPERATION. TRAINING MUST BE CONDUCTED BY PERSONNEL IN THE DIRECT EMPLOY OF THE MANUFACTURER OF THE FIRE ALARM CONTROL PANEL. A THIRD PARTY INSTRUCTOR IS NOT ACCEPTABLE.

AA. WARRANTY:

- 1. THE CONTRACTOR SHALL WARRANT THE COMPLETE FIRE ALARM SYSTEM WIRING AND EQUIPMENT TO BE FREE FROM INHERENT MECHANICAL AND ELECTRICAL DEFECTS FOR A PERIOD OF (3) THREE YEARS FROM THE DATE OF THE COMPLETED AND CERTIFIED TEST OR FROM THE DATE OF FIRST BENEFICIAL USE.
- 2. THE EQUIPMENT MANUFACTURE SHALL MAKE AVAILABLE TO THE OWNER A MAINTENANCE CONTRACT PROPOSAL TO PROVIDE A MINIMUM OF TWO (2) INSPECTIONS AND TEST PER YEAR IN COMPLIANCE WITH NFPA-72H GUIDELINES.

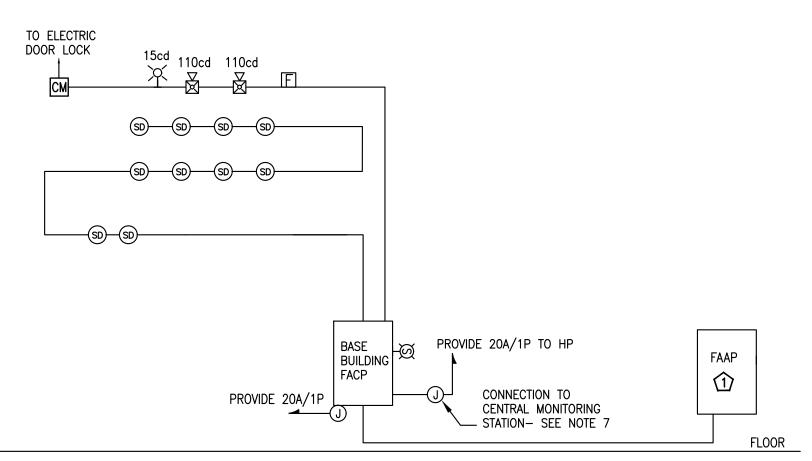
BB. SUBMITTALS

- 1. PROVIDE COMPLETE SETS OF DOCUMENTATION TO INCLUDE THE FOLLOWING: A. A COMPLETE POINT TO POINT RISER DIAGRAM OF THE FIRE ALARM SYSTEM SHOWING ALL DEVICES AND EQUIPMENT AND SIZE, TYPE AND NUMBERS OF ALL CONDUCTORS.
- B. BATTERY STANDBY AND POWER SUPPLY CALCULATIONS SHOWING TOTAL POWER REQUIRED TO MEET THE SPECIFIED SYSTEM REQUIREMENTS INCLUDING SPARE CAPACITY ALLOWANCES. CALCULATIONS SHALL INCLUDE A COMPLETE LIST OF CURRENT REQUIREMENTS DURING NORMAL, SUPERVISORY, TROUBLE AND ALARM CONDITIONS. CALCULATIONS SHALL ALSO DEMONSTRATE PROPER CONSIDERATION OF CURRENT REQUIREMENTS, WIRE SIZE, WIRE LENGTH AND VOLTAGE DROP CHARACTERISTICS.
- C. MANUFACTURER'S ORIGINAL CATALOG DATA SHEETS SHALL BE SUPPLIED FOR ALL OF THE EQUIPMENT TO BE SUPPLIED. ALL EQUIPMENT SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER AND NO EQUIPMENT SHALL BE ORDERED WITHOUT PRIOR APPROVAL.
- D. LARGE SCALE DRAWINGS OF THE MAIN CONTROL PANEL AND EACH REMOTE PANEL DEPICTING OVERALL MECHANICAL DIMENSIONS, LAYOUT INCLUDING FUTURE ALLOWANCES, AND FIELD WIRING IN FULL DETAIL.
- E. DOCUMENTATION OF THE SUPPLIER'S QUALIFICATIONS INDICATING YEARS IN BUSINESS SERVICE POLICIES, WARRANTY DEFINITIONS, AND A LIST OF SIMILAR INSTALLATIONS IN THE LOCAL MUNICIPALITY.
- F. PROVIDE A COMPLETE DETAILED DESCRIPTION OF THE SYSTEM OPERATION.

FLOOR PLANS SUPPLIED WITH THIS SUBMITTAL. CC. DOCUMENTATION:

1. AT THE COMPLETION OF THE PROJECT A COMPLETE SET OF OPERATING/MAINTENANCE MANUALS. THE FIRE ALARM SUBMITTAL BOOK, POINT-TO-POINT WIRING DIAGRAMS, A TERMINAL STRIP CABINET CONNECTION POINT DIAGRAM FOR EACH TERMINAL CABINET, A COMPLETE POINT ADDRESS LISTING BY DEVICE, AND A FINAL TEST REPORT SHALL BE GIVEN TO THE OWNER.

G. ADDRESSES FOR ALL FIELD DEVICES SHALL BE SHOWN ON



BUILDING FIRE ALARM RISER

WITH CITIZEN'S BUILDING MANAGEMENT SYSTEM.

<u>KEYED NOTES</u>

FIRE ALARM ANNUNCIATOR PANEL LOCATED IN CITIZEN'S SPACE. FIRE ALARM ANNUNCIATOR PANEL ' TO BE COMPATIBLE WITH THE BASE BUILDING FIRE CONTROL PANEL AND SHALL BE INTEGRATED

- FIRE ALARM RISER NOTES: 1. REFER TO FLOOR PLAN FOR EXACT QUANTITIES AND LOCATIONS OF ALL DEVICES.
- THE FIRE ALARM SYSTEM SHALL CONFORM WITH REQUIREMENTS OF THE MESSACHUSETTS FIRE SAFETY CODE AND THE CITY OF CAMBRIDGE FIRE DEPARTMENT. SHOP DRAWINGS SHALL BE SUBMITTED TO THE FIRE DEPARTMENT FOR APPROVAL.
- 3. PROVIDE A NEW ADDRESSABLE FIRE ALARM SYSTEM AS MANUFACTURED BY FCI OR APPROVED EQUAL. THE PANEL SHALL BE E3 SERIES. ALL DEVICES SHALL BE NEW AND MANUFACTURED BY GAMEWELL/FCI OR APPROVED EQUAL. ALL FIRE ALARM WIRING SHALL BE CLASS A PER FCI OR APPROVED EQUAL RECOMMENDATIONS AND SHALL BE INSTALLED IN MINIMUM 3/4" EMT CONDUIT.
- 4. ALL FIRE ALARM WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF NFPA. STATE, AND
- LOCAL BUILDING CODES AND THE AMERICANS WITH DISABILITIES ACT (ADA).

5. PROVIDE REMOTE BOOSTER POWER SUPPLY PANELS AS REQUIRED

- 6. PROVIDE FAULT ISOLATION MODULES ON THE SIGNAL LINE CIRCUIT TO PROTECT THE SYSTEM FROM LINE TO LINE FAULTS. MODULES SHALL BE PROVIDED AS REQUIRED, WITH A MINIMUM OF (1) MODULE PER EVERY 25 DEVICES.
- EXISTING CONNECTION FOR RADIO MASTER BOX/DEDICATED COMMUNICATION LINES FROM THE BASE BUILDING FACP TO THE FIRE DEPARTMENT MONITORING STATION IN ACCORDANCE WITH FIRE DEPARTMENT REQUIREMENTS.

FIRE ALARM SYSTEM LEGEND

- MANUAL PULL STATION MOUNTED 44" AFF
- EXISTING MANUAL PULL STATION
- FIRE ALARM CONTROL PANEL
- EXISTING SMOKE DETECTOR/SENSOR

FACP EXISTING FIRE ALARM CONTROL PANEL

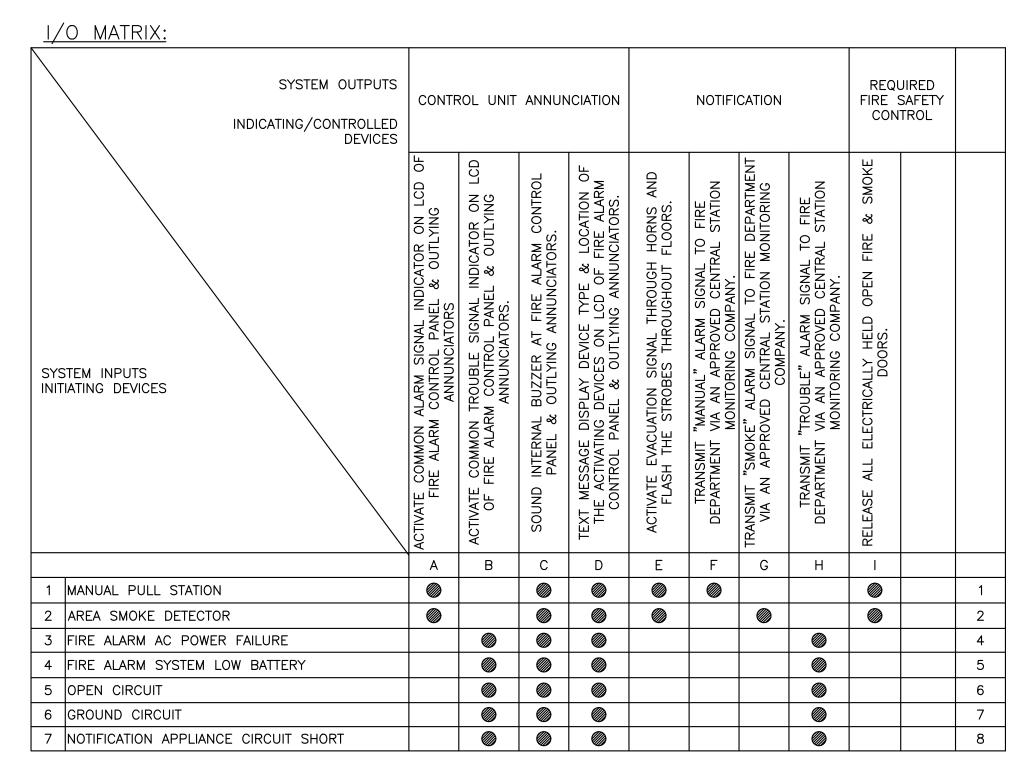
- HEAT DETECTOR/SENSOR
- VISIBLE ONLY(STROBE) WALL MOUNT CD- CANDELA RATING/SETTING COMBINATION HORN/VISIBLE CD— CANDELA RATING/SETTING WALL MOUNTED.
- COMBINATION HORN/VISIBLE CD- CANDELA RATING/SETTING-CEILING MOUNTED.

EMERGENCY/EXIT LIGHTING LEGEND

EMERGENCY LIGHTING FIXTURE

REMOTE TEMPERATURE SWITCH

EXIT LIGHT



TYPE OF DESIGN

INSTALLATION OF AUTOMATIC SMOKE DETECTION ALARM SYSTEM



ARCHITECTURE INTERIOR ARCHITECTURE SPACE PLANNING **FACILITIES MANAGEMENT** PROJECT MANAGEMENT

RISING SUN MILLS | 188 VALLEY STREET | PROVIDENCE, RI | 02909

VOICE 401.404.8310 FAX 401.404.8311 WWW.BISBANO.COM

KENDALL SQUARE 610 Main Street

Cambridge, MA

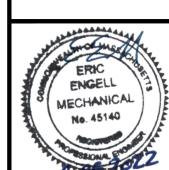
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LIFE SAFETY LEGENDS, NOTES & SPECIFICATION

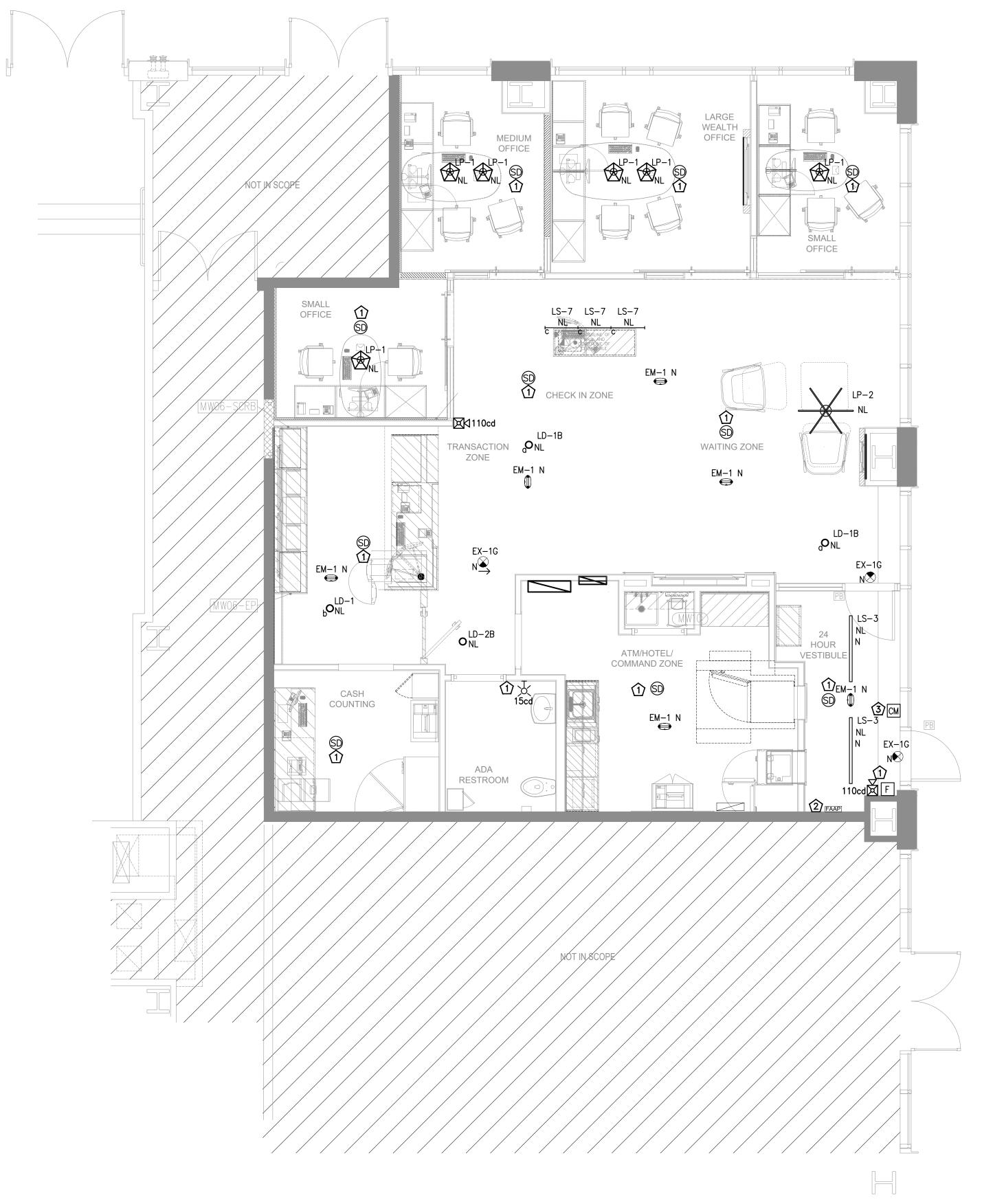
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REVISED: CONSTRUCTION DOCUMENTS -

DRAWN BY:



B+A PROJECT NO: 2021.56



FIRE ALARM GENERAL NOTES

- FIRE ALARM ANNUNCIATOR PANEL (FAAP) SHALL BE INTEGRATED WITH CITIZEN'S BMS.
- . ALL NEW FIRE ALARM DEVICES (STROBES, ALARMS, SMOKE DETECTORS, & HEAT DETECTORS) IN THIS SPACE SHALL BE CEILING MOUNTED UNLESS SHOWN WALL MOUNTED.
- 3. ALL EMERGENCY LIGHT FIXTURES (EM-1) TO BE CEILING MOUNTED.

FIRE ALARM KEYED WORK NOTES

- ALL FIRE ALARM DEVICES SHALL BE CONNECTED TO THE FIRE ALARM CONTROL PANEL. CONTRACTOR SHALL COORDINATE WITH BASE BUILDING/OWNER/CITIZENS REPRESENTATIVE.
- FIRE ALARM ANUNCIATOR PANEL TO BE COMPATIBLE WITH THE BASE BUILDING FIRE CONTROL PANEL AND SHALL BE INTEGRATED WITH CITIZEN'S BUILDING MANAGEMENT SYSTEM.
- (3) CONTROL MODULE FOR INTEGRATING ELECTRIC FAIL SAFE DOOR WITH THE FIRE ALARM SYSTEM.



INTERIOR ARCHITECTURE SPACE PLANNING FACILITIES MANAGEMENT PROJECT MANAGEMENT

BISBANO + ASSOCIATES, INC. RISING SUN MILLS | 188 VALLEY STREET | PROVIDENCE, RI | 02909 VOICE 401.404.8310 FAX 401.404.8311 WWW.BISBANO.COM



KENDALL SQUARE

610 Main Street Cambridge, MA 02139

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

LS1.00

LIFE SAFETY PLAN

ISSUE TYPE: REVISED: -



SPRINKLER GENERAL NOTES

- 1. ALL SPRINKLER WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF N.F.P.A.-13 AND ALL LOCAL AUTHORITIES.
- 2. ALL SPRINKLER WORK SHALL COMPLY WITH BUILDING STANDARDS AND REQUIREMENTS.
- 3. ALL SPRINKLER HEADS SHALL BE INSTALLED AT CENTER OF TILE IF CEILING IS PROVIDED.
- GENERAL CONTRACTOR SHALL COORDINATE FINAL FURNITURE/EQUIPMENT HEIGHT ELEVATIONS AND LOCATIONS WITH SPRINKLER INSTALLATION. ENGINEER SHALL BE NOTIFIED WHEN FURNITURE/EQUIPMENT IS LESS THAN 18" TO UNDERSIDE
- 5. THE SPRINKLER SYSTEMS ARE TO BE HYDROSTATIC TESTED FOR A (1) HOUR MINIMUM AT 200 PSI. PRESSURE AND ARE TO BE WITNESSED BY AUTHORIZED BUILDING PERSONNEL. COORDINATE ALL TESTING WITH BUILDING MANAGER.
- 6. PIPES SIZES SHOWN ARE BASED ON DESIGN PIPING LAYOUTS ONLY. ACTUAL PIPE SIZES SHALL BE DETERMINED BY CONTRACTORS HYDRAULIC CALCULATIONS BASED ON HIS INSTALLATION DRAWINGS. CONTRACTOR SHALL ALLOW FOR THIS AND INCLUDE THIS IN HIS CONTRACT PRICE.
- 7. DRAWING INDICATES SPRINKLER SYSTEM DESIGN ONLY. CONTRACTOR RESPONSIBLE FOR OFFSETS, DROPS AND RISES FOR COORDINATION WITH OTHER
- 8. G.C. SHALL BE RESPONSIBLE FOR ALL FINAL TESTS AND INSPECTIONS OF COMPLETED WORK REQUIRED BY THE BUILDING MANAGEMENT PRIOR TO OCCUPANCY OF SPACE.
- 9. ALL SPRINKLER WORK SHALL BE TESTED AND MADE OPERATIONAL PRIOR TO CARPET AND FURNITURE INSTALLATION. G.C. SHALL REPAIR AND/OR REPLACE
- ALL FINISHES DAMAGED BY DEFECTIVE SPRINKLER WORK AT HIS EXPENSE. 10. ALL BURNING, CUTTING, SOLDERING AND WELDING SHALL BE COORDINATED WITH
- 11. G.C. SHALL BE RESPONSIBLE FOR OBTAINING PERMITS AND APPROVALS REQUIRED BY BUILDING INSPECTOR AND FIRE MARSHALL IN CONJUNCTION WITH CHANGES TO EXISTING SPRINKLER SYSTEM.
- 12. REFER TO ENGINEERING DRAWINGS FOR SPRINKLER HEADS, LIGHT SENSORS AND

BUILDING FIRE SYSTEMS WITH BUILDING MANAGEMENT, AS REQUIRED.

13. ALL WORK TO BE DONE DURING THE HOURS DESIGNATED BY OWNER.

FIRE DETECTION DEVICES.

MASSACHUSETTS. ARE NECESSARY.

- 14. UPON COMPLETION OF ALL SPRINKLER WORK, CONTRACTOR SHALL TEST AND INSPECT ENTIRE SPRINKLER SYSTEM. ENTIRE SYSTEM SHALL BE FULLY OPERATIONAL AND APPROVED IN COMPLIANCE WITH ALL AHJ.
- 15. UPON SUCCESSFUL COMPLETION OF ALL TESTING, CONTRACTOR SHALL PRIME AND PAINT ALL EXPOSED SPRINKLER PIPING. COLOR AND FINISH SHALL BE AS PER ARCHITECT.
- 16. CONTRACTOR SHALL INCLUDE IN HIS BID THE COST TO PROVIDE (5) FIVE ADDITIONAL SPRINKLERS INSTALLED. EXACT LOCATIONS OF THESE SPRINKLER HEADS SHALL BE DETERMINED IN FIELD.
- 17. FOR SPRINKLER WORK DONE IN ACCORDANCE WITH THE REQUIREMENTS OF N.F.P.A.-13 AND N.F.P.A.-13, HYDROSTATIC TESTS IN ACCORDANCE WITH REFERENCE STANDARD NFPA 13-2012, AS MODIFIED FOR COMMONWEALTH OF
- 18. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND SHALL INSTALL NEW WORK TO CLEAR DUCTWORK AND LIGHTING FIXTURES.
- 19. ALL SPRINKLER WORK SHALL COMPLY WITH BUILDING STANDARDS AND REQUIREMENTS.
- 20. DRAWING INDICATES SPRINKLER SYSTEM DESIGN ONLY. CONTRACTOR RESPONSIBLE FOR OFFSETS, DROPS AND RISES FOR COORDINATION WITH OTHER
- 21. PIPES SIZES SHOWN ARE BASED ON SCHEDULE OF PIPE SIZE PIPING LAYOUTS ONLY. ACTUAL PIPE SIZES SHALL BE DETERMINED BY CONTRACTORS HYDRAULIC CALCULATIONS BASED ON HIS INSTALLATION DRAWINGS. CONTRACTOR SHALL ALLOW FOR THIS AND INCLUDE THIS IN HIS CONTRACT PRICE.
- 22. PROVIDE AUXILIARY DRAINS AT TRAPPED SECTIONS OF PIPING AS REQUIRED BY
- 23. GENERAL CONTRACTOR SHALL COORDINATE FINAL FURNITURE/ EQUIPMENT HEIGHT ELEVATIONS AND LOCATIONS WITH SPRINKLER INSTALLATION. ENGINEER SHALL BE NOTIFIED WHEN FURNITURE/EQUIPMENT IS LESS THAN 18" TO UNDERSIDE OF CEILING PRIOR TO INSTALLATION.

24. COMPOSITE DRAWINGS

- CONTRACTOR SHALL BE GIVEN A SEPIA TRANSPARENCIES TO IMPOSE THEIR WORK FOR A COORDINATED ALLOCATION OF SPACE. PROCEDURE SHALL INCLUDE HVAC CONTRACTOR TO INDICATE DUCT WORK, PIPING, STRUCTURAL AND ARCHITECTURAL DETAILS. SEPIAS SHALL BE GIVEN TO PLUMBING, SPRINKLER AND ELECTRICAL TRADES WHO WILL DRAW HIS WORK ON DRAWINGS. HVAC CONTRACTORS SHALL HOLD A COORDINATION MEETING WITH ALL CONTRACTORS TO ELIMINATE INTERFERENCE OR CONFLICTS IN INSTALLING WORK. IF UNABLE TO EACH AGREEMENT ISSUE, ARCHITECT SHALL MAKE BINDING DECISION.
- 25. CONTRACTOR SHALL COORDINATE SPRINKLER MAIN AND BRANCHES WITH NEW CONSTRUCTION TO AVOID CONFLICTS WITH CEILING HEIGHTS, DUCTWORK, LIGHTING FIXTURES, BEAMS. CONTRACTOR TO ADJUST PIPING ACCORDINGLY TO ACCOMMODATE NEW CONSTRUCTION.
- 26. WET SPRINKLER SYSTEM SUBJECTED TO FREEZING SHOULD COMPLY WITH CMR 780 MASSACHUSETTS STATE BUILDING CODE, 9TH EDITION AMENDED TO 2015 INTERNATIONAL BUILDING CODE, SECTION 903.

BUILDING DEPARTMENT SPRINKLER NOTES

- 1. THE INSTALLATION, COMPONENTS, SIZING, SPACING, CLEARANCES, POSITION AND TYPE OF SYSTEMS SHALL CONFORM TO THE CMR 780 MASSACHUSETTS STATE BUILDING CODE, 9TH EDITION AMENDED TO 2015 INTERNATIONAL BUILDING CODE, SECTION 903.
- 2. ONLY APPROVED MATERIALS SHALL BE USED AS PER 527 CMR 1.00 MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE SECTION 1.05.
- 3. DIRECT CONNECTION OF SPRINKLERS TO THE PUBLIC WATER SYSTEM SHALL CONFORM TO 527 CMR 1.00 MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE SECTION 1.05.
- 4. SPRINKLER SHALL BE PROTECTED AGAINST FREEZING AND INJURY AS PER 527 CMR 1.00 MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE SECTION 1.05.
- 5. INSPECTION AND TESTS OF SPRINKLERS SHALL BE CONDUCTED AS SEC. 901.5 AND 527 CMR 1.00 MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE, SECTION 1.05.
- 6. THE OCCUPANCY OF THE AREAS TO BE SPRINKLER IN ACCORDANCE WITH 527 CMR 1.00 MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE SECTION 1.05, CHAPTER 4.

1.00 MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE SECTION 1.05.

- 7. WATER SUPPLY TEST PIPES AND GAUGES SHALL BE PROVIDED AS PER 527 CMR
- PIPING, FITTINGS, SPECIFICATIONS, PIPE SCHEDULES, SYSTEM TEST PIPES, PROTECTION AGAINST CORROSION. DAMAGE. VALVES. HANGERS. SPRINKLERS GUARDS AND SHIELDS SHALL BE AS PER 527 CMR 1.00 MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE SECTION 1.05.
- 9. STOCK OF EXTRA SPRINKLERS WILL BE FURNISHED AS PER 527 CMR 1.00 MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE SECTION 1.05. (REQUIRED FOR EACH TEMPERATURE RATING).
- 10. SPRINKLER ALARM SHALL BE IN ACCORDANCE WITH 527 CMR 1.00 MASSACHUSEIIS COMPREHENSIVE FIRE SAFEIY CODE SECTION 1.05
- 11. SPACING, LOCATION AND POSITION OF SPRINKLER WILL BE AS PER 527 CMR 1.00 MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE SECTION 1.05.
- 12. ALL BLIND SPACES EXCEEDING 6" IN WIDTH OR DEPTH WHICH CONTAIN COMBUSTIBLE MATERIAL WILL BE SPRINKLERED.
- 13. ALL PIPE PASSING THROUGH WALLS WILL COMPLY WITH SECTION BC711.2
- 14. THERE IS NO HIGH PILED STORAGE AS DEFINED IN 527 CMR 1.00

OCCUPANCY NOR IS SUCH ACTION PENDING.

MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE SECTION 1.05. 15. THIS APPLICATION IS NOT FILED AS A RESULT OF ACTION BY THE FIRE COMMISSIONER AS AUTHORIZED BY BS & A TO MODIFY THE CERTIFICATE OF

- 16. ALL VALVES SHALL BE IDENTIFIED AS REQUIRED BY 527 CMR 1.00 PART 1 GENERAL MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE SECTION 1.05.
- 17. DRAINAGE SHALL CONFORM TO 527 CMR 1.00 MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE SECTION 1.05.
- 18. A ONE PIECE REDUCING FITTING OF GOOD DESIGN SHOULD BE USED WHEREVER A CHANGE IS MADE IN THE SIZE OF PIPE. AS PER 527 CMR 1.00 MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE SECTION 1.05.
- 19. ALL VALVES ON CONNECTIONS TO WATER SUPPLIES TO SPRINKLER SHALL BE APPROVED O.S. & Y. OR APPROVED INDICATOR TYPE. 20. DRAIN VALVES AND TEST VALVES SHALL BE APPROVED TYPE AS PER 527 CMR
- 1.00 MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE SECTION 1.05. 21. HANGERS SHOULD BE SUPPORTED BY WROUGHT IRON U TYPE OR APPROVED ADJUSTABLE HANGERS. HANGERS SHALL BE OF THE TYPE APPROVED FOR USE

WITH THE PIPE OR TUBE INVOLVED, AS PER CHAPTER 9.

- 22. PROVISIONS SHOULD BE MADE TO FACILITATE FLUSHING SYSTEM PIPING BY PROVIDING FLUSHING CONNECTIONS CONSISTING OF A CAPPED NIPPLE 4" LONG ON END OF A CROSS MAIN AS PER 527 CMR 1.00 MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE SECTION 1.05.
- 23. SPRINKLER SHALL BE AN APPROVED TYPE AS PER 527 CMR 1.00 MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE SECTION 1.05.
- TEMPERATURE RATING SHALL COMPLY WITH 527 CMR 1.00 MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE SECTION 1.05.
- 25. 18" MINIMUM CLEARANCE TO BELOW SPRINKLER DEFLECTOR AS PER 527 CMR 1.00 MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE SECTION 1.05.
- 26. SPACING AND LOCATION OF SPRINKLERS SHALL COMPLY WITH 527 CMR 1.00 MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE SECTION 1.05.
- 27. SPRINKLER SYSTEM COMPLIES WITH 13-2012 AS MODIFIED BY 527 CMR 1.00 MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE SECTION 1.05.

28. SOURCES OF WATER SUPPLY FOR SPRINKLER SYSTEMS AS PER 527 CMR 1.00

- MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE SECTION 1.05. 29. PIPE SCHEDULE SYSTEMS SHALL BE IN ACCORDANCE WITH CHAPTER 9, SECTION
- 30. HYDRAULICALLY DESIGNED SYSTEMS SHALL BE IN ACCORDANCE WITH CHAPTER 9 SECTION 903.3.
- 31. MINIMUM BRANCH PIPE SIZE TO BE ONE INCH (1").
- THIS APPLICATION IS MADE ONLY FOR WORK INDICATED ON THE SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

SPRINKLER DEMOLITION NOTES

- 1. PROVIDE ALL LABOR, APPARATUS, ETC. FOR THE REMOVAL OF ALL EXISTING SPRINKLER HEADS, PIPING, HANGERS, ETC. EXCEPT AS INDICATED.
- 2. MAINTAIN CONTINUOUS OPERATION OF EXISTING RISERS SO AS NOT TO

THAT MAY ATTEND THE EXECUTION OF THIS WORK.

- INCONVENIENCE OTHER BUILDING TENANTS. SPRINKLER CONTRACTOR SHALL VISIT THE PREMISES PRIOR TO SUBMITTING ITS PROPOSAL AND EXAMINE THE AREAS EFFECTED BY THIS WORK. HE IS TO
- 4. PERFORM THIS WORK SIMULTANEOUSLY WITH THAT OF OTHER TRADES SO AS NOT TO DELAY OVERALL PROGRESS OF WORK.

BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH POSSIBLE DIFFICULTIES

- OWNER'S OCCUPANCY REGULATIONS MAY REQUIRED THAT CERTAIN PORTIONS OF WORK BE DONE AFTER REGULAR WORKING HOURS. COORDINATE WITH BUILDING MANAGEMENT. COST OF OVERTIME IS TO BE INCLUDED IN THE CONTRACTOR'S PROPOSAL
- REMOVE ALL DEMOLITION MATERIALS FROM PROJECT SITE, EXCEPT ITEMS DESIGNATED BY ARCHITECT/OWNER TO REMAIN OWNER'S PROPERTY AND BE
- 7. NO DEAD ENDS SHALL BE LEFT ON PIPING.

COMPLETION OF NEW WORK.

- 8. EXISTING EXPOSED PIPING NOT BEING REUSED. AND NOT SPECIFICALLY NOTED OR SHOWN ON DRAWING TO BE ABANDONED SHALL BE COMPLETELY REMOVED.
- 10. NO REMOVED EXISTING PIPING SHALL BE REUSED.

9. THE EXISTING SYSTEM SHALL BE LEFT IN PERFECT WORKING ORDER AT

- 11. DO NOT USE ANY PART OF THE BUILDING AS A SHOP EXCEPT PARTS DESIGNATED FOR SUCH PURPOSES.
- 12. ALL SPRINKLER WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF N.F.P.A. - 13 AND ALL LOCAL AUTHORITIES.
- 13. CONTRACTOR SHALL FIELD VERIFY EXACT ELEVATION, LOCATION AND PIPE SIZES OF EXISTING SPRINKLER HEADS AND PIPING BEFORE INSTALLATION OF NEW
- 14. ALL SPRINKLER WORK SHALL COMPLY WITH BUILDING STANDARDS AND REQUIREMENTS.
- 15. A FIRE WATCH GUARD WITH A CERTIFICATE OF FITNESS SHALL BE MAINTAINED DURING SHUT DOWNS.

A MANNER SATISFACTORY TO BUILDING MANAGEMENT.

- 16. DRAWING INDICATES SPRINKLER SYSTEM DESIGN ONLY. CONTRACTOR IS RESPONSIBLE FOR OFFSETS, DROPS AND RISES FOR COORDINATION WITH OTHER
- 17. PIPE SIZE TO BE MINIMUM OF ONE INCH (1").
- 18. ALL WORK TO BE DONE DURING THE HOURS DESIGNATED BY OWNER.
- 19. CONTRACTORS SHALL TAKE SPECIAL CARE TO DEMOLISH ONLY THAT WORK WHICH IS REQUIRED TO BE DEMOLISHED AND NOT TO DISTURB ANY WORK WHICH IS TO REMAIN. IF IN THE COURSE OF THE DEMOLITION, THE CONTRACTOR DESTROYS OR DISTURBS ANY WORK WHICH IS TO REMAIN, THEN HE SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE SUCH WORK AS NECESSARY.
- 20. EXISTING PIPING SERVING ADJACENT AREAS NOT IN AREA OF WORK SHALL REMAIN ACTIVE AND WITHOUT DISTURBANCE
- 21. AFTER REMOVAL OF CEILINGS, CONSTRUCTION MANAGER SHALL INSPECT THE SITE WITH BUILDING REPRESENTATIVES TO IDENTIFY BASE BUILDING MEP INFRASTRUCTURE ITEMS WHICH ARE TO REMAIN. ALL SUCH ITEMS ARE TO BE CLEARLY TAGGED "TO REMAIN" AND TO BE PROTECTED DURING DEMOLITION, IN

SPRINKLER SPECIFICATIONS

1.01 REQUIREMENT

MASSACHUSETTS.

- A. THE SPRINKLER CONTRACTOR SHALL BE A LICENSED, AUTHORIZED INSTALLER OF SPRINKLER SYSTEMS AND SHALL HAVE HAD A MINIMUM OF FIVE YEARS EXPERIENCE IN THE INSTALLATION OF SPRINKLER SYSTEMS IN THE STATE OF
- B. BEFORE SUBMITTING HIS BID, THE SPRINKLER CONTRACTOR SHALL VISIT THE SITE AND SHALL FULLY FAMILIARIZE HIMSELF WITH. AND BECOME FAMILIAR WITH THE DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK. CONTRACTOR SHALL PERFORM THIS PRIOR TO SUBMITTING HIS PROPOSAL SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE, AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR. EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE
- C. UPON REVIEW OF THE DRAWINGS AND SPECIFICATIONS, PRIOR TO SUBMITTING HIS PROPOSAL, THE SPRINKLER CONTRACTOR SHALL INFORM ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES OR REQUEST CLARIFICATION IN WRITING, IF NECESSARY, CONCERNING THE INTENT OF THE PLANS AND SPECIFICATIONS TO PROVIDE A COMPLETE SPRINKLER SYSTEM INSTALLATION. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OF MATERIALS SHOULD SUCH PROCEDURE NOT BE FOLLOWED.
- THE SCHEDULING OF THE SPRINKLER WORK SHALL BE COORDINATED WITH BUILDING MANAGEMENT, WITH OTHER CONTRACTORS AND WITH THE ENGINEER.
- NECESSARY SHUT-DOWNS OF BASE BUILDING SPRINKLER SYSTEM MUST E COORDINATED WITH BUILDING MANAGEMENT. SHUT-DOWNS OF BASE BUILDING SYSTEMS SHALL TAKE PLACE AFTER OR BEFORE NORMAL BUSINESS HOURS AND SHALL BE CONSIDERED OVERTIME WORK. THE CONTRACTOR MUST GIVE BUILDING MANAGEMENT AND LOCAL FIRE DEPARTMENT 48 HOURS NOTICE PRIOR TO SHUT-DOWN OF SPRINKLER, OR OTHER SYSTEMS.

1.02 WORK INCLUDED

- A. WORK SHALL INCLUDE ALL SPRINKLER WORK FURNISHED AND INSTALLED AS F.
- INDICATED ON THE PLANS AND AS SPECIFIED HEREIN. SHEATHING. 1. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF THE LOCAL BUILDING WHEN SPRINKLER PIPING IS INSTALLED BELOW DUCTWORK, PIPING SHALL BE CODE, N.F.P.A. STANDARD 13, MASSACHUSETTS FIRE DEPARTMENT AND SUBSTANTIALLY SUPPORTED FROM THE BUILDING STRUCTURE, NOT FROM THE
- 2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. ANY DIMENSIONS NOT SHOWN SHALL BE OBTAINED FROM FIELD MEASUREMENTS.

OWNERS INSURANCE RATING ORGANIZATION.

3. PROVIDE COMPUTER GENERATED HYDRAULIC CALCULATIONS IN ACCORDANCE WITH MASSACHUSETTS BUILDING DEPARTMENT AND NFPA STANDARDS.

1.03 SHOP DRAWINGS AND SUBMITTALS

- A. THE CONTRACTOR SHALL SUBMIT, FOR APPROVAL, FULLY COORDINATED SHOP DRAWINGS, CAPACITY, DATA, AND CATALOG CUTS OF THE FOLLOWING:
- i. PIPE AND FITTINGS VALVES
- HANGERS AND SUPPORTS SPRINKLER PIPING LAYOUT
- TESTS 6. SPRINKLER HEADS HYDRAULIC CALCULATIONS

MASSACHUSETTS BUILDING CODE.

A. THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED. CONTRACTOR SHALL SUBMIT CALCULATIONS WITH SHOP DRAWINGS. CALCULATIONS SHALL BE PERFORMED IN ACCORDANCE WITH REQUIREMENTS OF NFPA #13, AND 2.11 SPRINKLER HEADS

1.04 BUILDING DEPARTMENT FILING, PERMITS AND CERTIFICATES

- A. THE SPRINKLER CONTRACTOR SHALL FILE ALL REQUIRED DRAWINGS AND HYDRAULIC CALCULATIONS WITH THE BUILDING DEPARTMENT AND BE RESPONSIBLE FOR OBTAINING FINAL APPROVAL.
- B. ARRANGE FOR INSPECTION AND TESTS OF ANY AND ALL PARTS OF THE WORK AS REQUIRED BY AUTHORITIES HAVING JURISDICTION AND PAY ALL CHARGES FOR

1.05 INSPECTION AND TESTING

- THE SPRINKLER SYSTEM SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING CODE FIRE DEPARTMENT INSPECTOR.
- B. THE SPRINKLER SYSTEM SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE TEST FOR A PERIOD OF TWO HOURS AT A PRESSURE OF AT LEAST 200 PSIG OR 50 PSI IN EXCESS OF THE MAXIMUM PRESSURE TO BE MAINTAINED WHEN THE MAXIMUM PRESSURE IN THE SYSTEM IS IN EXCESS OF 150 PSI AS PER
- C. THE BUILDING DEPARTMENT SHALL BE NOTIFIED THAT THE SYSTEM IS READY FOR REINSPECTION AND TESTING. THE BUILDING DEPARTMENT INSPECTOR SHALL WITNESS THE TEST. FINAL APPROVAL OF THE SPRINKLER SYSTEM SHALL BE OBTAINED FROM BUILDING DEPARTMENT, AND FIRE DEPARTMENT.

2.01 GENERAL

- A. THE SPRINKLER SYSTEM SHALL BE COMPLETE WITH ALL PIPE, FITTINGS, VALVES, DRAINAGE SYSTEM AND VALVES, HANGERS AND SUPPORTS. ALSO, MISCELLANEOUS WORK ITEMS, SUCH AS, SIGNS AS REQUIRED, VALVE TAGS, ETC. AND ALL OTHER RELATED EQUIPMENT, APPARATUS AND MATERIAL ITEMS A. PIPING NECESSARY FOR COMPLETE, APPROVED TYPE SYSTEM, READY FOR FUTURE EXTENSION.
- B. ALL PIPE, FITTINGS, HANGERS, SUPPORTS, SPRINKLER HEADS, ETC., SHALL CONFORM TO THE MASSACHUSETTS BUILDING CODE AND NATIONAL FIRE PROTECTION ASSOCIATION'S REQUIREMENTS AS TO TYPES OF MATERIALS, ARRANGEMENT, SIZES AND INSTALLATION. PIPING PENETRATING FIRE RATED PARTITIONS SHALL HAVE OPENING SEALED WITH U.L. APPROVED FIREPROOF SEALANT.

2.02 SPRINKLER PIPING

- A. ALL SPRINKLER PIPING SHALL BE SCHEDULE 40, IN ACCORDANCE WITH NFPA 13. PIPE SHALL BE UL/FM APPROVED.
- B. AS PER NFPA 13 PIPE OR TUBE USED IN SPRINKLER SYSTEMS SHALL BE OF THE MATERIALS SPECIFIED IN NFPA-13
- C. AS PER NFPA 13, FITTINGS USED IN SPRINKLER SYSTEMS SHALL BE OF THE MATERIALS LISTED IN NFPA-13 OR FITTING SHALL BE UL/FM APPROVED.

DO ALL CUTTING AND CORE DRILLING NECESSARY FOR THE INSTALLATION OF SPRINKLER WORK. ACCURATELY LAYOUT WORK FOR WHICH CUTTING IS REQUIRED. PATCH AND RESTORE ANY DAMAGE WORK TO LIKE NEW CONDITION.

2.04 CUTTING AND PATCHING

2.03 CUTTING AND PATCHING

- 1. DO ALL CUTTING AND CORE DRILLING NECESSARY FOR THE INSTALLATION OF SPRINKLER WORK, ACCURATELY LAYOUT WORK FOR WHICH CUTTING IS REQUIRED. PATCH AND RESTORE ANY DAMAGE WORK TO LIKE NEW
- 2. FOR REPLACEMENT OF THE WORK REMOVED, MATCH EXISTING IN NATURE, CONSTRUCTION AND FINISH.
- MAINTAIN THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR RUBBISH COVERED BY THE WORK, REMOVE ALL SURPLUS MATERIALS, TOOLS ETC. AND LEAVE PREMISES CLEAN.

INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURERS

PUBLISHED DIRECTIONS AND PER FIRE TESTED DESIGNS THAT HAVE BEEN ACCEPTED BY THE APPROPRIATE CODE AUTHORITY HAVING JURISDICTION.

2.06 PHASING

2.05 FIRE STOPPING

PHASING SHALL BE COORDINATED BETWEEN THE SPRINKLER CONTRACTOR AND GENERAL CONTRACTOR. SPRINKLER INSTALLATION SHALL BE PHASED IN A

MANNER WHICH WILL ALLOW FULL OCCUPANCY OF THE EXISTING FACILITY

CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY CONTRACTOR PROPOSED

SUBSTITUTIONS OF THE MATERIALS OR METHODS OF INSTALLATION FROM THAT

SPECIFIED. THESE ALTERATIONS SHALL BE LISTED ON THE PROPOSAL AS

THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE DURING THE INSTALLATION AND

TESTING PERIODS OF THE SPRINKLER SYSTEM FOR ANY LOSS OR DAMAGE TO THE

WORK OF OTHERS, TO THE BUILDING, IT'S CONTENTS ETC. CAUSED BY LEAKS IN THE

EQUIPMENT. BY UNPLUGGED OR DISCONNECTED PIPES, FITTINGS ETC. OR BY

OVERFLOW, AND SHALL PAY FOR THE NECESSARY REPLACEMENTS OR REPAIRS TO

ALL SPRINKLER PIPING SHALL BE SUBSTANTIALLY SUPPORTED AND SHALL

COMPLY WITH THE STANDARDS FOR THE NATIONAL FIRE PROTECTION

ASSOCIATION FOR THE INSTALLATION OF SPRINKLER SYSTEMS AND AS REQUIRED

HANGERS AND THEIR COMPONENTS SHALL BE FERROUS. HANGERS SHALL BE

SPRINKLER PIPING OR HANGERS SHALL NOT BE USED TO SUPPORT

SPRINKLER PIPING SHALL BE SUBSTANTIALLY SUPPORTED FROM THE BUILDING

STRUCTURE WHICH MUST SUPPORT THE ADDED LOAD OF THE WATER-FILLED

PIPE PLUS A MINIMUM OF 250 LBS. APPLIED AT THE POINT OF HANGING.

SPRINKLER PIPING SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING

MAXIMUM DISTANCE BETWEEN HANGERS SHALL NOT EXCEED 12 FT. FOR 1 AND

EXPANSION SHIELDS FOR SUPPORTING PIPES UNDER CONCRETE CONSTRUCTION

MAYBE USED IN A HORIZONTAL POSITION IN THE SIDES OF BEAMS. IN

CONCRETE HAVING GRAVEL OR CRUSHED STONE AGGREGATE, EXPANSION

SHIELDS MAY BE USED IN THE VERTICAL POSITION TO SUPPORT PIPES 4" OR

PROVIDE ESCUTCHEONS ON ALL EXPOSED PIPING PASSING THROUGH WALLS,

PARTITIONS, FLOORS AND CEILINGS. ESCUTCHEON SHALL BE HELD IN PLACE BY

PREPARE AND SUBMIT "AS BUILT" DRAWINGS AT THE COMPLETION OF THE

A. SPRINKLERS SHALL BE RATED FOR ORDINARY TEMPERATURES (135/165 DEG. F)

APPROVED EQUAL, UL AND FM APPROVED, AS FOLLOWS:

BE AUTOMATIC TYCO MODEL TY3531.

EXCEPT AS REQUIRED NEAR HEATERS OR LOCATIONS WHERE ELEVATED

TEMPERATURES MAY NORMALLY BE EXPECTED OR AS OTHERWISE INDICATED ON

SPRINKLER HEADS SHALL BE BY TYCO SPRINKLER CO., INC. MANUFACTURE OR

CABINET SHALL BE CONSTRUCTED OF 22 GAUGE STEEL WITH PRIME COAT

AND MANUFACTURER'S BAKED ENAMEL FINISH IN COLOR SELECTED BY THE

2. SPRINKLER HEADS IN FINISHED CEILINGS WITH CONCEALED PIPING SHALL

ASHCROFT SERIES 1079, OR APPROVED OTHER, 4-1/2" DIAMETER, 0-200 P.S.I.

A. GUARANTEE FOR A PERIOD OF ONE (1) YEAR FORM THE DATE OF ACCEPTANCE

OR UNSATISFACTORY WITH IN THE PERIOD OF THE GUARANTEE.

BY THE OWNER, ALL MATERIALS, APPARATUS AND WORKMANSHIP WHETHER

FURNISHED BY HIMSELF OR BY HIS SUBCONTRACTORS AND HE SHALL REPLACE

INSTALL PIPING AS SHOWN ON THE CONTRACT DRAWINGS AND STRAIGHT AND DIRECT AS POSSIBLE, FORMING RIGHT ANGLES OR PARALLEL LINES

WITH BUILDING WALLS, NEATLY SPACED, WITH RISERS PLUMB AND TRUE.

SPRINKLER PIPING SHALL BE INSTALLED SO THAT THE SYSTEM CAN BE

4. BEFORE INSTALLING PIPE, THOROUGHLY CLEAN THE INSIDE FREE OF

CUTTING AND FOREIGN MATTER. CUT ALL PIPE SQUARE AND SMOOTH AND

THREADED JOINTS SHALL BE MADE UP OF TIGHT USING PIPE JOINT TEFLON

COMPOUND OR TAPE, APPLIED ON THE MALE THREADS ONLY.

OR REPAIR IN A MANNER APPROVED BY THE ARCHITECTS, WITHOUT COST TO THE OWNER, ANY PART OR PARTS OF THE WORK WHICH MAY PROVE DEFECTIVE

1-1/4" SIZES NOR 15' FOR SIZES 1-1/2" AND LARGER.

CONTRACTOR SHALL SUBMIT DETAIL OF SUPPORT FOR REVIEW AND APPROVAL.

WHILE THE INSTALLATION IS IN PROGRESS.

THE WORK OF OTHERS, DAMAGED BY SUCH LEAKAGE.

BY THE MASSACHUSETTS BUILDING CODE.

ADJUSTABLE FLAT IRON TYPE OF CLEVIS TYPE.

2.06 ALTERNATES/SUBSTITUTIONS

CONTRACTOR ALTERNATIVE.

2.08 INSERTS, HANGERS, ETC.

NON-SYSTEM COMPONENTS.

DUCTWORK.

LESS IN DIAMETER.

2.10 AS-BUILT DRAWINGS

THE CONTRACT DRAWINGS.

2.12 PRESSURE GAUGE

PART 3 - EXECUTION

.02 INSTALLATION

DRAINED.

B. PIPE JOINTS

3. PIPE SHALL BE REMOVED BY REAMING.

MAKE UP ALL JOINTS TO REQUIRED LIMITS.

3.01 GUARANTEE

RANGE, 20 P.S.I. INTERVALS.

INTERNAL TENSION OR SET SCREW.

2.09 ESCUTCHEONS

2.07 LEAK DAMAGE

SP00.00 SPRINKLER GENERAL NOTES, SYMBOLS, ABBREVIATIONS AND

SP01.01 SPRINKLER FLOOR PLAN SP02.01 SPRINKLER DETAILS

SPECIFICATIONS

SPACING BETWEEN SPRINKLER HEADS

SPRINKLER DRAWING LIST

LIGHT HAZARD: 15' MAX. ORDNIARY HAZARD: 15' MAX

NOTE: MAXIMUM DISTANCE BETWEEN SPRINKLER HEADS & WALLS IS 1/2 THE DISTANCE BETWEEN HEADS.

PROTECTION AREA OF SPRINKLER HEADS LIGHT HAZARD : 225 SQ. FT.

GENERAL NOTES:

 FOR SPRINKLER WORK ONLY. 2. ALL SPRINKLER HEADS MEET DESIGN CRITERIA PER COVERAGE.

FIRE PROTECTION SYSTEM INTENT

- 1. ALL WORK SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 13.
- PERFORM A NEW FLOW TEST OR OBTAIN A RECENT FLOW TEST AND USE THE RESULTS WHEN PREPARING HYDRAULIC CALCULATIONS.
- 3. PROVIDE A COMPLETE WET SPRINKLER SYSTEM, IN ACCORDANCE WITH NFPA 13.

SCOPE OF WORK:

. THE SPRINKLER SYSTEM IS DESIGNED AS PER NFPA 13.

SPRINKLER LEGEND

EXISTING SPRINKLER RISER PIPING TO REMAIN —— EX.SP —— NEW SPRINKLER PIPING —— SP ——

CONCEALED SPRINKLER HEAD (NEW)

EXISTING UPRIGHT HEAD TO BE REMOVED SIDEWALL SPRINKLER HEAD (EXISTING)

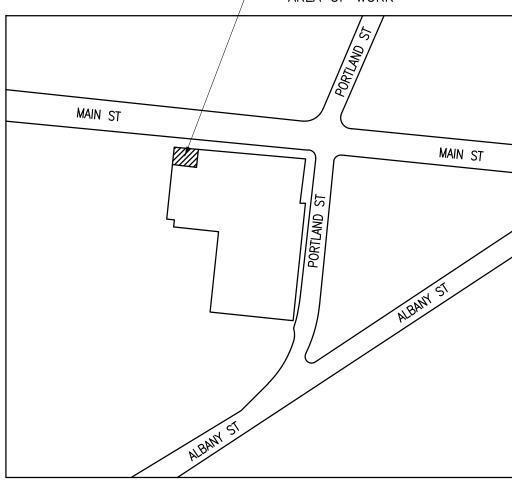
SPRINKLER PIPING POINT OF CONNECTION

SPRINKLER CAPPED OUTLET

SPRINKLER PIPING POINT OF DISCONNECTION

KEY PLAN -AREA OF WORK

PIPE THRU RATED WALL



MASSACHUSETTS THREE TIER PROCESS

THIS PROJECT SHALL BE DESIGNED AND CONSTRUCTED UNDER THE THREE TIER SYSTEM, PER THE MASSACHUSETTS BUILDING CODE, 780 CMR, CHAPTER 9. A. TIER ONE. CONSTRUCTION DOCUMENTS

1. PRIOR TO ISSUANCE OF A BUILDING PERMIT. CONSTRUCTION DOCUMENTS FOR THE FIRE PROTECTION SYSTEM MUST BE SUBMITTED AND A BUILDING PERMIT OBTAINED PRIOR TO THE INSTALLATION OF FIRE PROTECTION SYSTEMS OR MODIFICATIONS, ALTERATIONS, ADDITIONS OR DELETIONS TO AN EXISTING FIRE PROTECTION SYSTEM.

B. TIER TWO, SHOP DRAWINGS

C. TIER THREE, RECORD DRAWINGS

- 1. PRIOR TO INSTALLATION OF FIRE PROTECTION SYSTEMS, SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE PREPARED BY THE CONTRACTOR.
- 2. DRAWINGS SHALL CONFORM TO ALL REQUIREMENTS LISTED IN THE BUILDING CODE. THE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL THEN BE SUBMITTED TO THE ENGINEER OF RECORD. WHEN THE ENGINEER OF RECORD IS SATISFIED WITH THE DRAWINGS, THEY WILL BE SEALED.
- 3. THE CONTRACTOR SHALL THEN SUBMIT DRAWINGS AND HYDRAULIC CALCULATIONS TO THE BUILDING OFFICIAL AND FIRE OFFICIAL, AND OBTAIN APPROVAL.
- 1. AS BUILT PLANS SHALL BE PROVIDED TO THE BUILDING OWNER FOR ALL FIRE PROTECTION AND LIFE SAFETY SYSTEMS THAT ARE SEALED AS REVIEWED AND APPROVED BY THE ENGINEER OF RECORD, PERFORMING CONSTRUCTION CONTROL.

INCORPORATED INTO THE OPERATION & MAINTENANCE MANUALS, AND DELIVERED TO THE OWNER.

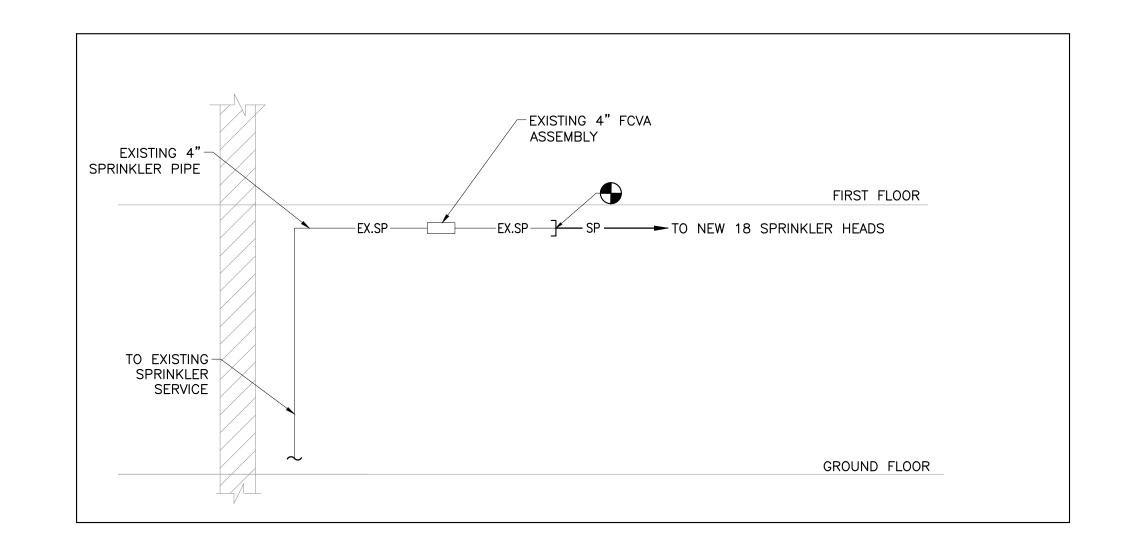
2. THE CONSTRUCTION DOCUMENTS SHALL CONTAIN CONFORM TO ALL REQUIREMENTS LISTED IN THE BUILDING CODE.

2. SHOP DRAWINGS SHALL BE MODIFIED AS NECESSARY, WITH ANY FIELD CHANGES IDENTIFIED BY CLOUDS ON THE DRAWINGS. 3. WHEN THE ENGINEER OF RECORD IS SATISFIED WITH THE DRAWINGS AND HYDRAULIC CALCULATIONS, THEY WILL BE SEALED. THESE COMPLETED DOCUMENTS WILL THEN BE

			SPR	RINKLER	SCHEDULE					
SYMBO	L NAME	COVERAGE	AREA	METAL	TEMPERATURE (°F)	K-FACTOR	NPT	MFG	MODEL#	APPROVALS
•	CONCEALED	STANDARD	LH/OH AREAS WITH CEILING	BRASS	155	5.6	½"	TYC0	SERIES RF-II TY3531	UL

NOTE: 1. COORDINATE ALL SPRINKLER COLOR FINISHES WITH ARCHITECT.

2. ALL SPRINKLER SHOULD BE UL APPROVED



SPRINKLER RISER DIAGRAM

ISBANO + ASSOCIATES, INC

ARCHITECTURE

SPACE PLANNING

INTERIOR ARCHITECTURE

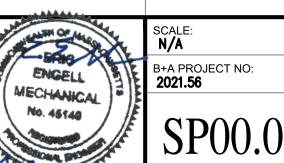
FACILITIES MANAGEMENT

PROJECT MANAGEMENT

Cambridge, MA

SPRINKLER GENERAL NOTE SYMBOLS, ABBREVIATIONS

REVISED: CONSTRUCTION DOCUMENTS -



SPRINKLER GENERAL NOTE, SYMBOLS, ABBREVIATIONS AND SPECIFICATIONS

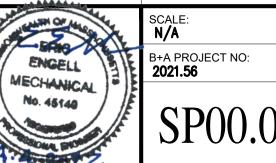
RISING SUN MILLS | 188 VALLEY STREET | PROVIDENCE BL | 02909 VOICE 401.404.8310 FAX 401.404.8311 WWW.BISBANO.COM

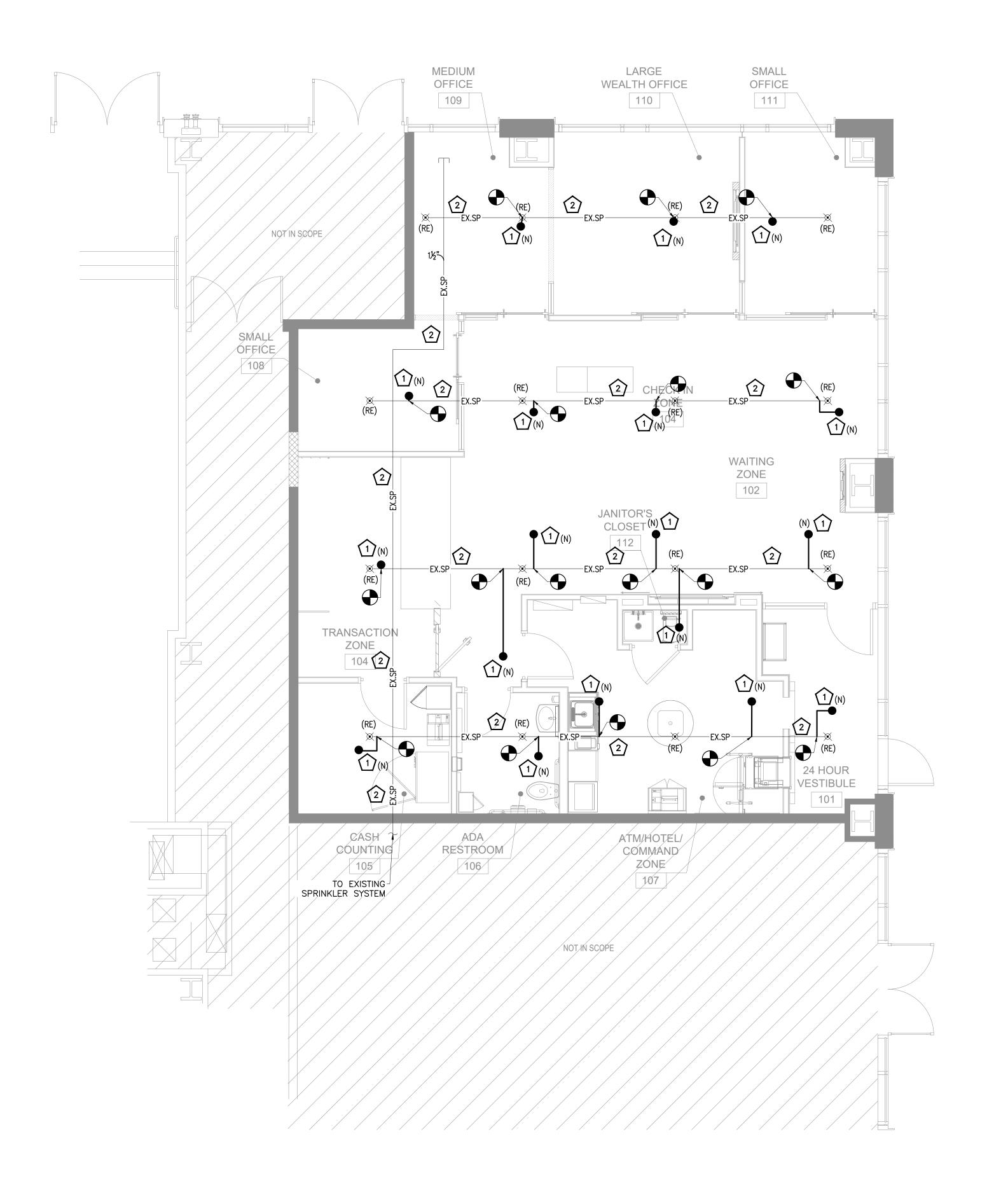
KENDALL SQUARE 610 Main Street

AND SPECIFICATIONS

03/31/2022

DRAWN BY:





GENERAL NOTES:

- 1. CONTRACTOR TO FIELD VERIFY TO INSTALL ALL SPRINKLER HEADS TO BE MAX. 12" FROM CEILING.
- 2. ALL NEW SPRINKLER HEADS LOCATION TO BE COORDINATED WITH LIGHTING AND DIFFUSERS TO AVOID CONFLICT. 3. ALL SPRINKLER HEADS & PIPING TO BE COORDINATED WITH EXISTING & NEW
- 4. ANY WORK SHOWN ON THE DRAWINGS AND NOT PARTICULARLY DESCRIBED IN THE SPECIFICATIONS OR DETAILS, OR ANY WORK WHICH MAY BE DEEMED NECESSARY TO COMPLETE THE CONTRACT SHALL BE PROVIDED BY THE
- CONTRACTOR AS PART OF THIS CONTRACT. FOR PURPOSES OF CLEARNESS AND LEGIBILITY, SPRINKLER DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND SIZE AND LOCATION OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE. THE DRAWINGS INDICATE CONNECTION POINTS, AND ROUTED OF PIPES. IT IS NOT INTENDED, HOWEVER, THAT ALL OFFSETS, RISES AND DROPS ARE SHOWN. PROVIDE PIPING AS REQUIRED TO FIT STRUCTURE, AVOID OBSTRUCTIONS, AND RETAIN CLEARANCES, HEADROOM OPENINGS AND PASSAGEWAYS. ALL SPRINKLER PIPING AT CEILING SHALL BE ROUTED TIGHT TO EXISTING SLAB AS
- REQUIRED. 6. CONTRACTOR TO FIELD VERIFY FEASIBILITY OF SLAB PENETRATION IF REQUIRED AS PER STRUCTURAL REQUIREMENT.
- 7. ALL SPRINKLER HEADS & PIPING TO BE COORDINATED WITH EXISTING & NEW SERVICES.
- 8. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING SYSTEM. ALL PENDANT SPRINKLERS MUST BE SPACED AS FOLLOWS 1. MAXIMUM 7.5' FROM WALL 2. MAXIMUM DISTANCE BETWEEN 2 SPRINKLER HEADS IS 15'.
- 3. MINIMUM DISTANCE BETWEEN 2 SPRINKLER HEADS IS 6'.
 4. COVERAGE AREA PER SPRINKLER SHALL BE MAX. 225 SQ.FT.
 9. ALL SPRINKLER HEADS MEET DESIGN CRITERIA PER COVERAGE.
- 10. AUXILIARY DRAIN SHALL BE PROVIDED AT THE TRAPPED SECTIONS. 11. ALL EXISTING SPRINKLER SYSTEM AT THIS FLOOR TO BE DEMOLISHED UNLESS OTHERWISE NOTED.
 12. FOR SPRINKLER WORK ONLY.

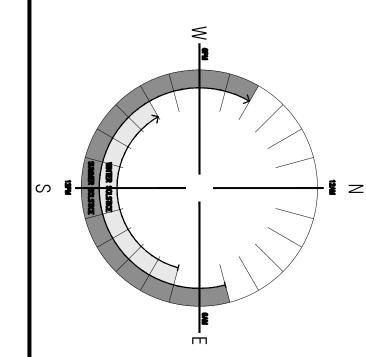
SPRINKLER KEYNOTES

- 1) ALL BRANCH TAKE-OFF FOR EACH SPRINKLER TO BE MIN. 1".
- EXISTING SPRINKLER PIPING TO REMAIN. CONTRACTOR TO FIELD VERIFY EXACT ROUTING & SIZING ON FIELD.

SPRINKLERS		
EXISTING UPRIGHT HEADS TO BE REMOVED	16	
NEW CONCEALED HEAD	18	
TOTAL	34	

HAZARD CLASSIFICATION AND DESIGN DENSITY:

AREA: MEDIUM, LARGE & SMALL OFFICE, CHECK IN ZONE, WAITING ZONE
OCCUPANCY: LIGHT HAZARD
MINIMUM DESIGN DENSITY: 0.1 GPM/SQ. FT.





INTERIOR ARCHITECTURE SPACE PLANNING FACILITIES MANAGEMENT PROJECT MANAGEMENT

BISBARO + ASSOCIATES, IRC. RISING SUN MILLS | 188 VALLEY STREET | PROVIDENCE, RI | 02909 VOICE 401.404.8310 FAX 401.404.8311 WWW.BISBANO.COM

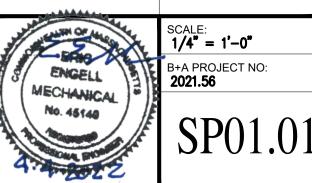


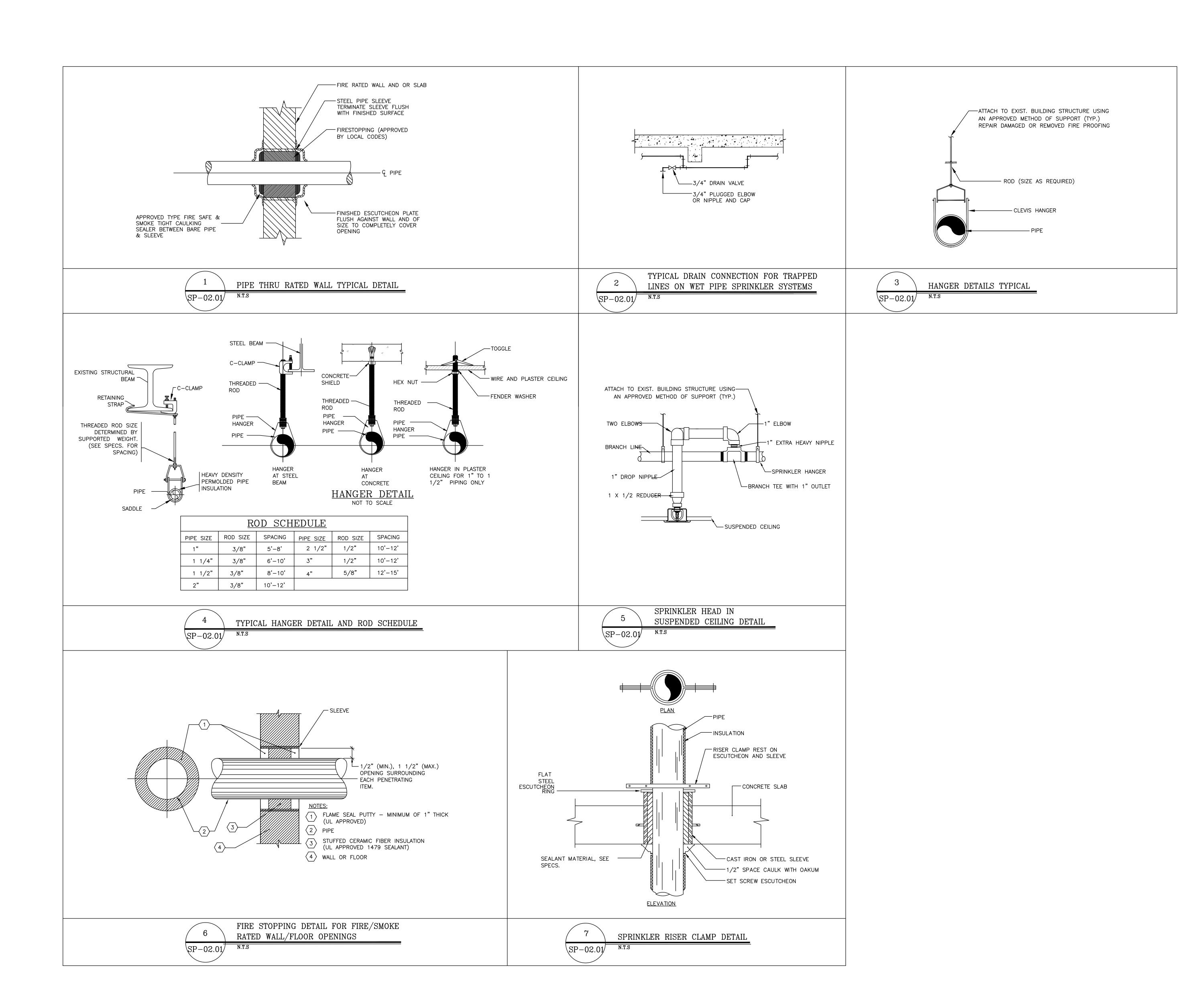
KENDALL SQUARE

610 Main Street Cambridge, MA

SPRINKLER FLOOR PLAN

ISSUE TYPE: REVI







ARCHITECTURE
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SPACE PLANNING
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PROJECT MANAGEMENT

BISBANO + ASSOCIATES, INC.
RISING SUN MILLS | 188 VALLEY STREET | PROVIDENCE, RI | 02909
VOICE 401.404.8310 FAX 401.404.8311 WWW.BISBANO.COM

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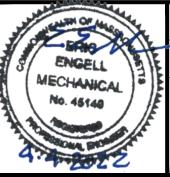
KENDALL SQUARE
610 Main Street

610 Main Street Cambridge, MA 02139

SPRINKLER DETAILS

ISSUE TYPE:
CONSTRUCTION DOCUMENTS

ISSUE DATE:
03/31/2022



B+A PROJECT NO: 2021.56

SP02.01