

UNIVERSITY OF NORTH TEXAS

TREA NORHL

# KERR HALL INTERIOR RENOVATION

## LOBBY, RESTROOMS, & LAUNDRY



ISSUE FOR CONSTRUCTION

FEBRUARY 6, 2024





UNIVERSITY OF NORTH TEXAS  
KERR HALL INTERIOR RENOVATION  
ISSUE FOR CONSTRUCTION

FEBRUARY 6, 2024

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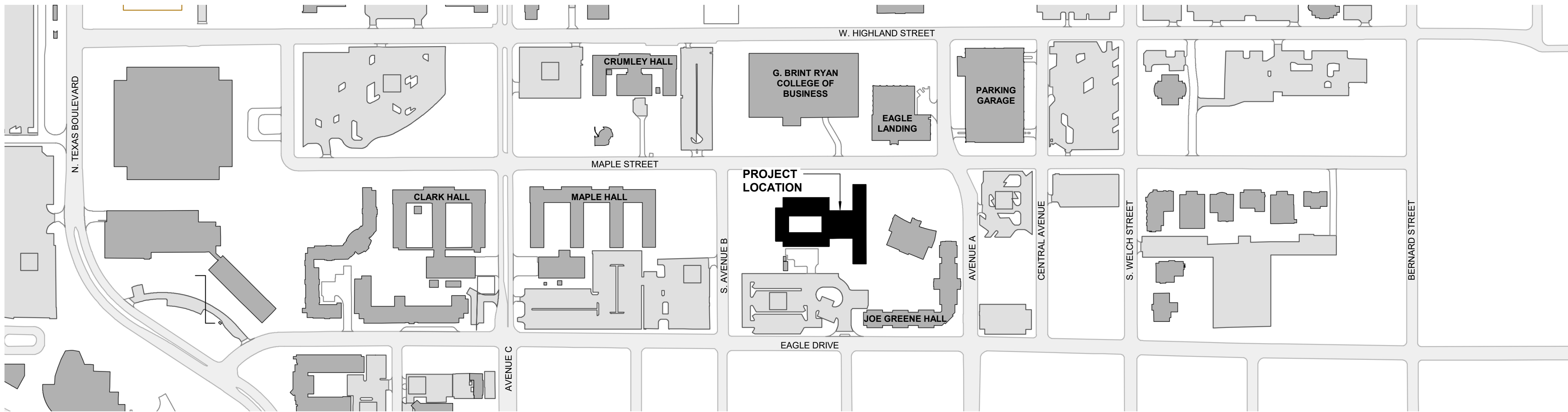
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SITE VICINITY MAP A1



SHEET INDEX

GENERAL

- G000A COVER SHEET
- G001A SITE VICINITY MAP, PROJECT TEAM, & SHEET INDEX
- G002 GENERAL NOTES & ABBREVIATIONS
- G003 ACCESSIBILITY REQUIREMENTS
- G004 PARTITION TYPES, DETAILS, & NOTES
- G101 CODE SUMMARY
- G105 RENDERINGS - LOBBY

ARCHITECTURAL

- AD101A DEMOLITION PLAN (LOBBY, RESTROOMS, & LAUNDRY)
- AD151A DEMOLITION RCP (LOBBY, RESTROOMS, & LAUNDRY)
- A100A OVERALL FLOOR PLAN (LOBBY, RESTROOMS, & LAUNDRY)
- A101A FLOOR PLAN (LOBBY, RESTROOMS, & LAUNDRY)
- A151A RCP (LOBBY, RESTROOMS, & LAUNDRY)
- A401 ENLARGED PLANS, RCPs, & ELEVATIONS
- A402 ENLARGED PLANS, RCPs, & ELEVATIONS
- A403 ENLARGED PLANS, RCPs, & ELEVATIONS
- A404 LAUNDRY ENLARGED PLAN & INTERIOR ELEVATIONS
- A405 ENLARGED PLANS & INTERIOR ELEVATIONS
- A500 INTERIOR DETAILS - TYPICAL
- A501 INTERIOR DETAILS (LOBBY, RESTROOMS, & LAUNDRY)
- A502 INTERIOR DETAILS (LOBBY, RESTROOMS, & LAUNDRY)
- A510 TYPICAL ROOF PENETRATION DETAILS
- A601A DOOR & FRAME SCHEDULE, GLAZING TYPES, & DETAILS
- A602A DOOR DETAILS
- A611A SIGNAGE SCHEDULE & DETAILS
- A700A INTERIOR FINISH LEGEND & DETAILS (LOBBY, RESTROOMS, & LAUNDRY)
- A701A FINISH PLAN (LOBBY, RESTROOMS, & LAUNDRY)
- A711A FURNITURE PLAN (LOBBY, RESTROOMS, & LAUNDRY)
- A751 CASEWORK DETAILS
- A761 MILLWORK DETAILS
- A762 MILLWORK DETAILS

MECHANICAL

- IDM201A LEVEL 1 MECHANICAL DEMOLITION PLAN (LOBBY, RESTROOMS, & LAUNDRY)
- IM001 MECHANICAL NOTES & SYMBOLS
- IM201A LEVEL 1 MECHANICAL PLAN (LOBBY, RESTROOMS, & LAUNDRY)
- IM211A LEVEL 1 MECHANICAL PIPING PLAN (LOBBY, RESTROOMS, & LAUNDRY)
- IM501 MECHANICAL DETAILS - DUCT
- IM502 MECHANICAL DETAILS - PIPE
- IM503 MECHANICAL DETAILS - GREASE EXHAUST
- IM601 MECHANICAL SCHEDULES
- IM701 CONTROLS DETAILS
- IM702 CONTROLS - AHU & FCU
- IM703 CONTROLS - LAUNDRY ROOM EXHAUST FAN

ELECTRICAL

- IE001 ELECTRICAL NOTES & SYMBOLS
- IE002 ELECTRICAL NOTES & SYMBOLS
- IE201A LEVEL 1 ELECTRICAL PLAN (LOBBY, RESTROOMS, & LAUNDRY)
- IE301A LEVEL 1 LIGHTING PLAN (LOBBY, RESTROOMS, & LAUNDRY)
- IE401 ELECTRICAL ENLARGED PLAN - RESTROOMS (LOBBY, RESTROOMS, & LAUNDRY)
- IE601 ELECTRICAL DETAILS - GENERAL
- IE602 ELECTRICAL DETAILS - GENERAL
- IE603 ELECTRICAL DETAILS - GROUNDING
- IE701 ELECTRICAL SCHEDULES
- IE801 ELECTRICAL PANEL SCHEDULES - B TOWER
- IE802 ELECTRICAL PANEL SCHEDULES - LAUNDRY

PLUMBING

- IP001 PLUMBING NOTES & SYMBOLS
- IP002 PLUMBING FIXTURE SCHEDULE
- IP101 PLUMBING SPECIFICATIONS
- IP200A UNDERFLOOR PLUMBING PLAN (LOBBY, RESTROOMS, & LAUNDRY)
- IP201A LEVEL 1 PLUMBING PLAN (LOBBY, RESTROOMS, & LAUNDRY)
- IP301A PLUMBING ENLARGED PLAN (LOBBY, RESTROOMS, & LAUNDRY)
- IP302A PLUMBING ENLARGED PLAN (LOBBY, RESTROOMS, & LAUNDRY)
- IP401 LOBBY, RESTROOMS, & LAUNDRY - PLUMBING RISERS
- IP402 LOBBY, RESTROOMS, & LAUNDRY - PLUMBING RISERS
- IP501 PLUMBING DETAILS
- IP502 PLUMBING DETAILS

TELECOM

- T000A TELECOM - INDEX (LOBBY, RESTROOMS & LAUNDRY)
- TD101A TELECOM - DEMOLITION FLOOR PLAN (LOBBY, RESTROOMS & LAUNDRY)
- TD151A TELECOM - DEMOLITION REFLECTED CEILING PLAN (LOBBY, RESTROOMS & LAUNDRY)
- T101A TELECOM - FLOOR PLAN (LOBBY, RESTROOMS & LAUNDRY)
- T151A TELECOM - REFLECTED CEILING PLAN (LOBBY, RESTROOMS & LAUNDRY)
- T500A TELECOM - DETAILS (LOBBY, RESTROOMS & LAUNDRY)
- T501A TELECOM - DETAILS (LOBBY, RESTROOMS & LAUNDRY)

AUDIOVISUAL

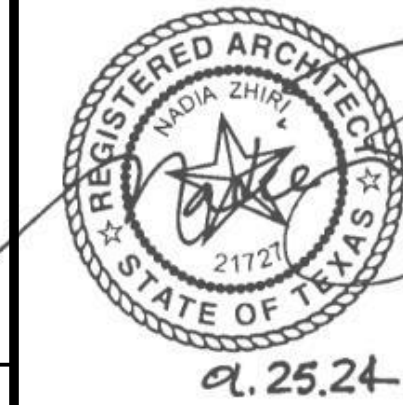
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- TA101A AUDIOVISUAL - FLOOR PLAN (LOBBY, RESTROOMS & LAUNDRY)
- TA151A AUDIOVISUAL - REFLECTED CEILING PLAN (LOBBY, RESTROOMS & LAUNDRY)
- TA500A AUDIOVISUAL - SCHEMATICS
- TA700A AUDIOVISUAL - ELEVATIONS

SECURITY

- TY000A SECURITY - INDEX (LOBBY, RESTROOMS & LAUNDRY)
- TYD101A SECURITY - DEMOLITION FLOOR PLAN (LOBBY, RESTROOMS & LAUNDRY)
- TYD151A SECURITY - DEMOLITION REFLECTED CEILING PLAN (LOBBY, RESTROOMS & LAUNDRY)
- TY101A SECURITY - FLOOR PLAN (LOBBY, RESTROOMS & LAUNDRY)
- TY151A SECURITY - REFLECTED CEILING PLAN (LOBBY, RESTROOMS & LAUNDRY)
- TY500A SECURITY - DETAILS (LOBBY, RESTROOMS & LAUNDRY)

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REVISIONS		
NO	DESCRIPTION	DATE

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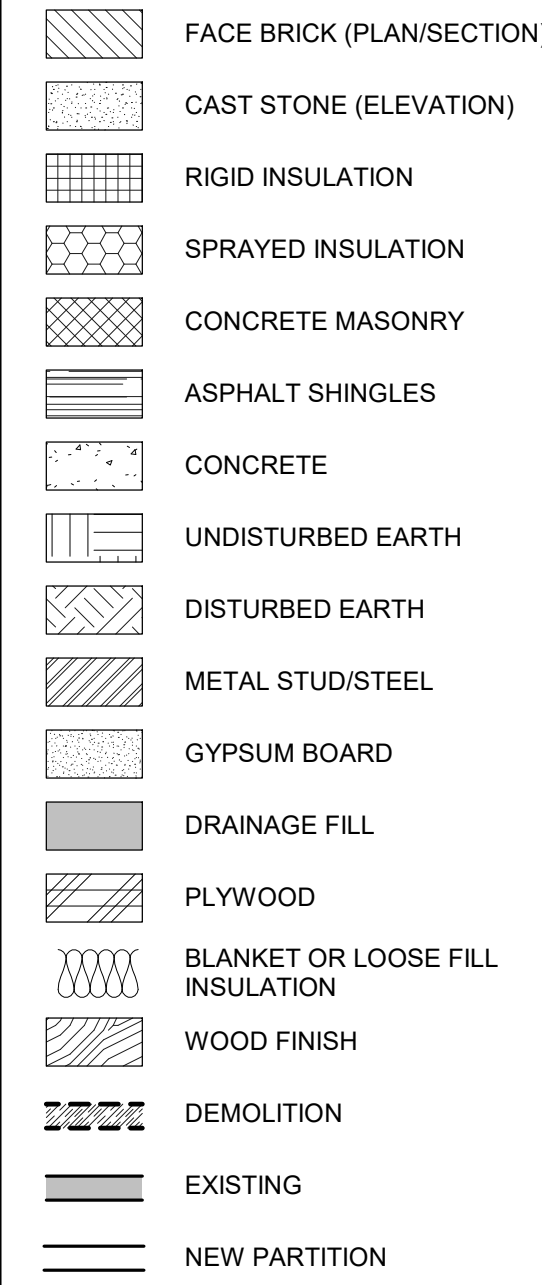
SITE VICINITY MAP,  
PROJECT TEAM, & SHEET  
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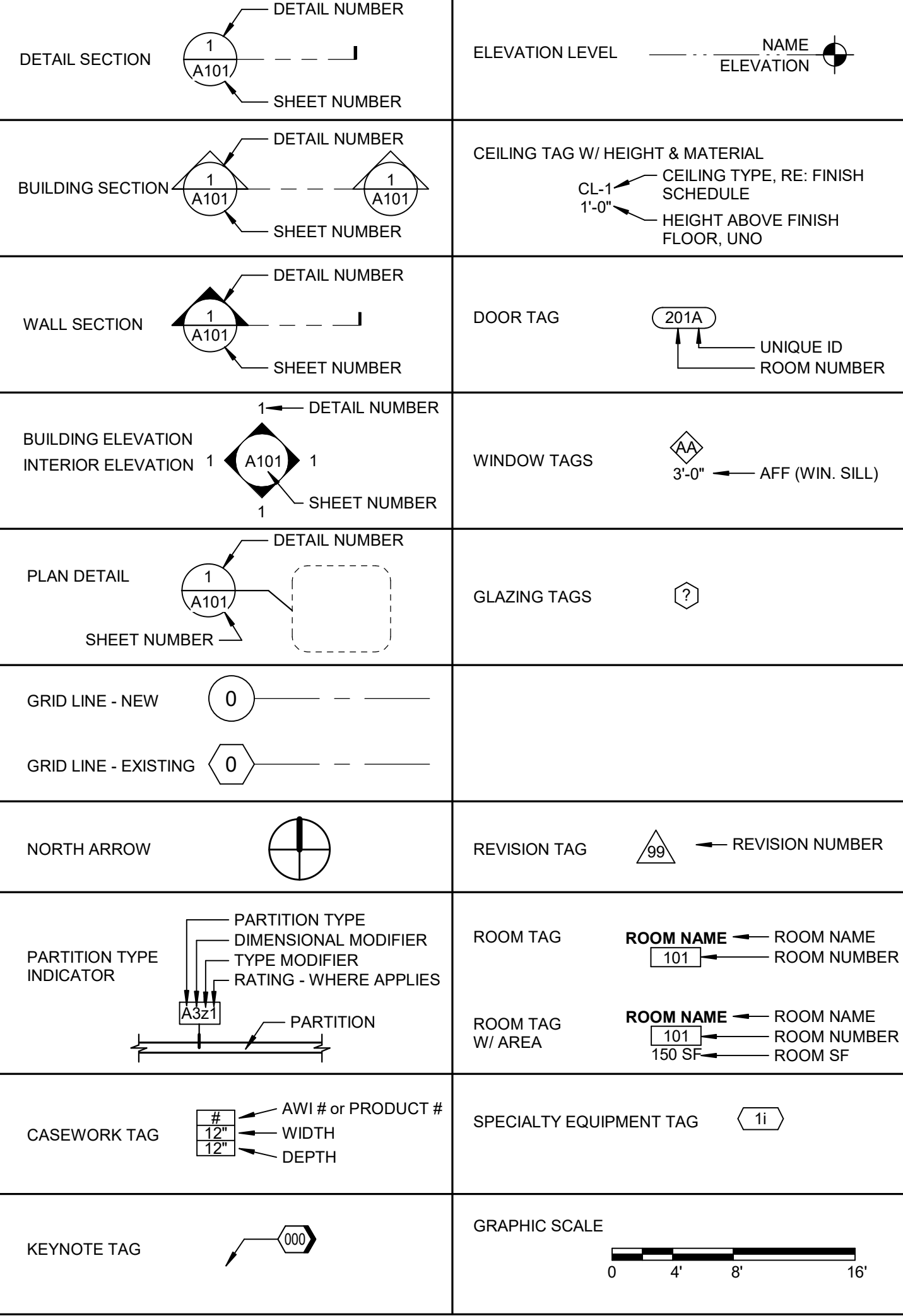


ABBREVIATIONS		
28"	AA AUTOMATICALLY ACTUATED	FLUOR FLUORESCENT
	ABS ABSOLUTE	PNL PANEL
	ABV ABOVE	PR PAIR
	AC ABOVE COUNTER	PSF POUNDS PER SQUARE FOOT
	ACMU ARCHITECTURAL CEMENTITIOUS MASONRY UNIT	PSI POUNDS PER SQUARE INCH
27"	ACOUS ACOUSTICAL	PT PAINT, PAINTED
	ACT ACOUSTICAL CEILING TILE	PTR PAPER TOWEL RECEPTOR
	AD AREA DRAIN	PVC POLYVINYL CHLORIDE
	ADA AMERICANS WITH DISABILITIES ACT	PVMT PAVEMENT
	ADJ ADJUSTABLE	QT QUARRY TILE
26"	AFF ABOVE FINISHED FLOOR	QTY QUANTITY
	AG ACRYLIC GLAZING	R RADIUS OR RISER
	AHU AIR HANDLING UNIT	RA RETURN AIR
	ALT ALTERNATE	RAD RADIUS
	ALUM ALUMINUM	RB RUBBER BASE
25"	ANCH ANCHOR	RBT RABBIT
	AP ACCESS PANEL	RCP REFLECTED CEILING PLAN
	APX APPROXIMATE	RD ROOF DRAIN
	ARCH ARCHITECT(URAL)	RE REFERENCE
	AUTO AUTOMATIC	RECEP RECEPTACLE
	BD BOARD	REF REFERENCE
24"	BLDG BUILDING	REFR REFRIGERATOR
	BLK BLOCK	REG REGISTER
	BM BENCHMARK	REIN REINFORCED(ING)
	BO BOTTOM OF	REMO REMOVE
	BOD BASIS OF DESIGN	REQ REQUIRE(D)
	BOT BOTTOM	RES RESILIENT
23"	BR BRICK	RET RETURN
	BRC BEARING	REV REVISION
	BS BOTH SIDES	RFG ROOFING
	BSMT BASEMENT	RFL REFLECT(ED), (IVE), (OR)
	BUR BUILT UP ROOFING	RFS ROOM FINISH SCHEDULE
	CA CARD ACTUATED	RH RIGHT HAND
22"	CAB CABINET	RM ROOM
	CB CHALKBOARD	RND ROUGH OPENING
	CCTV CLOSED CIRCUIT TELEVISION	RTU ROOF TOP UNIT
	CF CORK FLOORING	RVRS REVERSE
	CFCI CONTRACTOR FURNISHED CONTRACTOR INSTALLED	S SOUTH
	CG CORNER G	SAL SUPPLY AIR
21"	CH CONDUCTOR HEAD	SAM SEAM
	CI CAST IRON	SAN SANITARY
	CIP CAST IN PLACE	SCHED SCHEDULE
	CJ CONTROL JOINT	SD STORM DRAIN
	CL CENTER LINE	SECT SECTION
20"	CLG CEILING	SF SQUARE FEET
	CLR CLEAR	SHT SHEET
	CMU CONCRETE MASORY UNIT	SHTH SHEATHING
	CO CLEAN OUT	SHWR SHOWER
	COL COLUMN	SIM SIMILAR
19"	CONC CONCRETE	SLNT SEALANT
	COND CONDITION	SND SANITARY NAPKIN DISPENSER
	CONST CONSTRUCTION	LAV LAVATORY
	CONT CONTINUOUS, CONTINUE	LH LEFT HAND
	CORR CORRIDOR	LN LINOLEUM
	CPT CARPET	LLH LONG LEG HORIZONTAL
18"	CR CARD READER	LLV LONG LEG VERTICAL
	CS CUSTOM STEEL	LMS LIMESTONE
	CT CERAMIC TILE	LT LIGHT
	CTR COUNTER	LSK SERVICE SINK
	CTSK COUNTERSUNK	LTU LINTEL
17"	CW COLD WATER	LW LIGHT WEIGHT
	D DEPTH/DRAIN	LWC LIGHT WEIGHT CONCRETE
	DBL DOUBLE	LWCMU LIGHT WEIGHT CONCRETE MASONRY UNIT
	DF DRINKING FOUNTAIN	M METERS(S)
	DFS DOOR AND FRAME SCHEDULE	MAS MASONRY
16"	DIA DIAMETER	MAT MATERIAL(S)
	DM DIMENSION	MAX MAXIMUM
	DIV DIVISION	MB MARKERBOARD
	DN DOWN	MDF MEDIUM DENSITY FIBERBOARD
	DPR DISPENSER	MECH MECHANICAL
	DR DOOR	MED MEDIUM
	DS DOWNSPOUT	MEMB MEMBRANE
15"	DTL DETAIL	MFR MANUFACTURE/MANUFACTURER
	DWG DRAWING	MHO MAGNETIC HOLD OPEN
	E EAST	MIN MINIMUM
	EA EACH	MIR MIRROR
	EB EXPANSION BOLT	MISC MISCELLANEOUS
14"	ECUH ELECTRIC CABINET UNIT HEATER	MLD MOLDING, MOULDING
	EF EACH FACE	MO MASONRY OPENING
	EIFS EXTERIOR INSUL. FINISH SYSTEM	MOD MODULAR
	EJ EXPANSION JOINT	MS METAL STUDS
	ELEC ELECTRIC(AL)	MT MCUNT(ED), (ING)
13"	ELEV ELEVATION/ELEVATOR	MTRF METAL FURRING
	EMER EMERGENCY	MTL METAL
	ENC ENCLOSURE	MLR METAL ROOF
	EOS EDGE OF SLAB	MULL MULLION
	EP ELECTRICAL PANEL	N NORTH
12"	EPS EXPANDED POLYSTYRENE	NIC NOT IN CONTRACT
	EQ EQUAL	NO NUMBER
	EQUIP EQUIPMENT	NOM NOMINAL
	EST ESTIMATE	NR NOISE REDUCTION
	ETR EXISTING TO REMAIN	NRC NOISE REDUCTION COEFFICIENT
	EWEC ELECTRIC WATER COOLER	NTS NOT TO SCALE
11"	EXIST EXISTING	OC ON CENTER
	EXP EXPANSION	OD OUTSIDE DIAMETER (or) OVERFLOW DRAIN
	EXT EXTERIOR	OFCI OWNER FURNISHED CONTRACTOR INSTALLED
	FA FRESH AIR	OFV OWNER FURNISHED VENDOR INSTALLED
	FAAP FIRE ALARM ANNUNCIATOR PANEL	OH OVERHEAD
10"	FACP FIRE ALARM CONTROL PANEL	OPH OPPOSITE HAND
	FAS FASTENER	OPNG OPENING
	FB FACE BRICK	OPP OPPOSITE
	FBO FURNISHED BY OTHERS	PAR PARAPET
	FD FLOOR DRAIN	PAV PAVING
	FDC FIRE DEPARTMENT CONECTION	PB PUSH BUTTON
9"	FE FIRE EXTINGUISHER	PC PORTLAND CEMENT
	FEB FIRE EXTINGUISHER BRACKET	PCC PRECAST CONCRETE
	FEC FIRE EXTINGUISHER CABINET	PED PEDESTRIAN
	FF FINISH FLOOR	PERIM PERIMETER
	FFCO FLUSH FLOOR CLEANOUT	PERP PERPENDICULAR
8"	FFE FINISHED FLOOR ELEVATION	PFB PREFABRICATE(D)
	FFL FINISHED FLOOR LINE	PFC POLYISOCYANURATE
	FH FLAT HEAD	PK PARKING
	FHC FIRE HOSE CABINET	PL PLATE
	FHMS FLAT HEAD MACHINE SCREW	PL PROPERTY LINE
7"	FIN FINISH	PLAM PLASTIC LAMINATE
	FL FLOW LINE	PLAS PLASTER
		PLBG PLUMBING
		PLWD PLYWOOD

MATERIALS



SYMBOLS



GENERAL NOTES

- GENERAL NOTES APPLY TO WORK OF THIS PROJECT, INCLUDING CHANGES TO THE WORK APPROVED BY THE OWNER.
- CONTRACT DOCUMENTS INDICATE THE DESIGN INTENT. PROVIDE MINOR MODIFICATIONS NECESSARY TO SUIT JOB CONDITIONS AS PART OF THE WORK, WITH ARCHITECT'S DIRECTION. REPORT ERRORS, OMISSIONS AND INCONSISTENCIES IMMEDIATELY TO THE ARCHITECT.
- COMPLY WITH APPLICABLE CODES, ORDINANCES, REGULATIONS, AND AUTHORITIES HAVING JURISDICTION, AS A MINIMUM STANDARD.
- COOPERATE WITH AUTHORITIES HAVING JURISDICTION AND SPECIAL INSPECTORS. PROVIDE TIMELY NOTIFICATION IN ADVANCE OF INSPECTIONS, AND ASSISTANCE AND FACILITIES TO ACCOMMODATE INSPECTIONS.
- DO NOT PERFORM CHANGES TO THE WORK AFFECTING THE CONTRACT SUM OR CONTRACT TIME WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.
- MINIMIZE INTERFERENCE WITH USE OF PUBLIC WAYS AND ADJACENT FACILITIES. DO NOT CLOSE, BLOCK OR OTHERWISE OBSTRUCT USE OF PUBLIC WAYS OR FACILITIES WITHOUT CONSENT OF OWNER AND/OR AUTHORITIES HAVING JURISDICTION.
- PROTECT EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE. DO NOT INTERRUPT EXISTING UTILITIES UNLESS AUTHORIZED BY OWNER AND/OR AUTHORITIES HAVING JURISDICTION. WHEN REQUIRED, PROVIDE ALTERNATE TEMPORARY SERVICES ACCEPTABLE TO GOVERNING AUTHORITIES.
- INSTALL MANUFACTURED ITEMS, MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS, U.N.O.
- WHERE A MANUFACTURER IS SPECIFIED, THE NAME OR PRODUCT LISTED IS A BASIS OF DESIGN. WHERE THE TERM "OR APPROVED EQUAL" OR "OR EQUIVALENT" IS USED, THE ARCHITECT SHALL DETERMINE EQUIVALENCE AND ACCEPTABILITY BASED UPON THE INFORMATION SUBMITTED, PRIOR TO USE.
- KEEP THE WORK FREE OF ACCUMULATIONS OF WASTE MATERIALS AND DEBRIS. USE METHODS AGREEABLE TO THE OWNER FOR WASTE REMOVAL.
- ARCHITECTURAL DIMENSIONS ARE TO FACE OF CONCRETE, FACE OF MASONRY, OR FACE OF EXISTING COLUMN, EXTERIOR WALL OR INTERIOR PARTITION DESIGNATED TO REMAIN, U.N.O.
- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL GOVERN. DETAILS SHALL GOVERN OVER PLANS AND ELEVATIONS. LARGE SCALE DETAILS SHALL GOVERN OVER SMALL SCALE DETAILS.
- PROTECT EXISTING PROPERTY AND WORK FROM DAMAGE. REPAIR OR REPLACE ITEMS DAMAGED BY CONSTRUCTION ACTIVITY TO MATCH CONDITIONS PRIOR TO START OF WORK.
- PROVIDE BLOCKING FOR SUPPORT OF CASEWORK, GRAB BARS, TOILET, BATH AND CLOSET ACCESSORIES, VISUAL DISPLAY SURFACES AND EQUIPMENT, DOOR STOPS, FIXTURES AND SPECIALTY ITEMS. INSTALL BLOCKING TO FIT SNUGLY BETWEEN STUDS AND TO FIT TIGHTLY AGAINST BACK OF GYPSUM BOARD. BLOCK CONTINUOUSLY AT TOP AND BOTTOM OF BASE, WALL AND TALL CABINETS. REFERENCE INTERIOR DETAILS.
- INSTALL TOP OF FLOOR DRAINS 1/2" BELOW FINISH FLOOR ELEVATION, U.N.O. PROVIDE POSITIVE SLOPE TO DRAINS FROM ALL DIRECTIONS, SO THAT WATER DOES NOT POND ON FLOOR AWAY FROM DRAINS.
- PROTECT EXISTING CONSTRUCTION, MATERIALS AND FINISHES WITH ENCLOSURES AND OTHER SUITABLE MEASURES. COMPLY WITH GOVERNING REGULATIONS REGARDING ENVIRONMENTAL PROTECTION. REPAIR ANY DAMAGE TO MATCH CONDITIONS PRIOR TO START OF WORK.
- REMOVE EXISTING ITEMS NOT SHOWN TO REMAIN AND AS REQUIRED TO ACCOMMODATE NEW WORK. SALVAGE ITEMS WHERE INDICATED ON DRAWINGS.
- INFILL OR PATCH UNUSED OPENINGS IN FLOOR, WALL, CEILING AND ROOF ASSEMBLIES, AS REQUIRED TO MAINTAIN SMOKE, FIRE OR SOUND RATING, AND/OR STRUCTURAL CAPACITY. MATCH TEXTURE, COLOR AND FINISH OF ADJACENT SURFACE WHERE EXPOSED TO VIEW.
- DIMENSIONS NOTED AS "FIELD VERIFY" OR "VIF" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.
- ANY EXPOSED PIPING OR CONDUITS SHALL BE INSTALLED TIGHT TO WALLS, COLUMNS AND AREAS WHERE CEILINGS ARE OPEN TO STRUCTURE.

Note:

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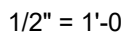
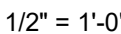
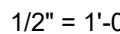
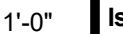
GENERAL NOTES & ABBREVIATIONS

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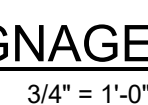
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$$1/2'' = 1'-0''$$

$$1/2^{\circ} = 1'-0''$$

$$1/2^{\circ} = 1'-0$$

$$1/2'' = 1'-0''$$

$$1/2^{\circ} = 1'-0$$


1'-0" 15



**NOTE:**

PROVIDE (1) SIGN PER TOILET ROOM AND (1) SIGN PER EXIT PASSAGEWAY / DISCHARGE COMPLIING WITH ICC/ANSI A117-1:2009 AND 2015 ARCHITECTURAL BARRIERS ACT (ABA) REQUIREMENTS. WAYFINDING ELEMENTS TO CONTAIN RAISED AND BRAILLE CHARACTERS AND PICTOGRAM SYMBOLS OF ACCESSIBILITY. MOUNT 5'-0" TO CENTERLINE A.F.F.

SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED WITHIN A CLEAR FLOOR SPACE OF 18" MINIMUM, CENTERED ON THE TACTILE CHARACTERS. IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND THE 45 DEGREE OPEN POSITION.


DOOR FRAME  
6" AT NON-ACCESSIBLE  
LOCATIONS  
SIGNAGE - REFER TO  
A611A FOR SIGNAGE  
DETAILS AND SCHEDULE  
SIGNAGE TO BE MOUNTED  
ON DOOR LATCH SIDE

TYPICAL ROOM SIGNAGE

**GNAGE**  
3/4" = 1'-0"

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REVISIONS

NO	DESCRIPTION	DATE






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## ACCESSIBILITY

## REQUIREMENTS

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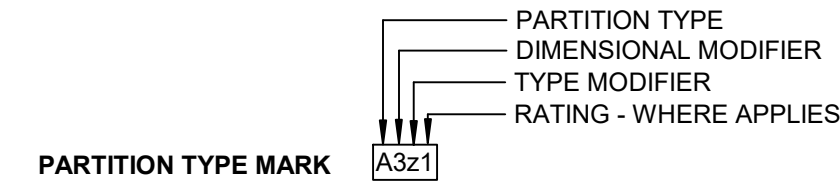
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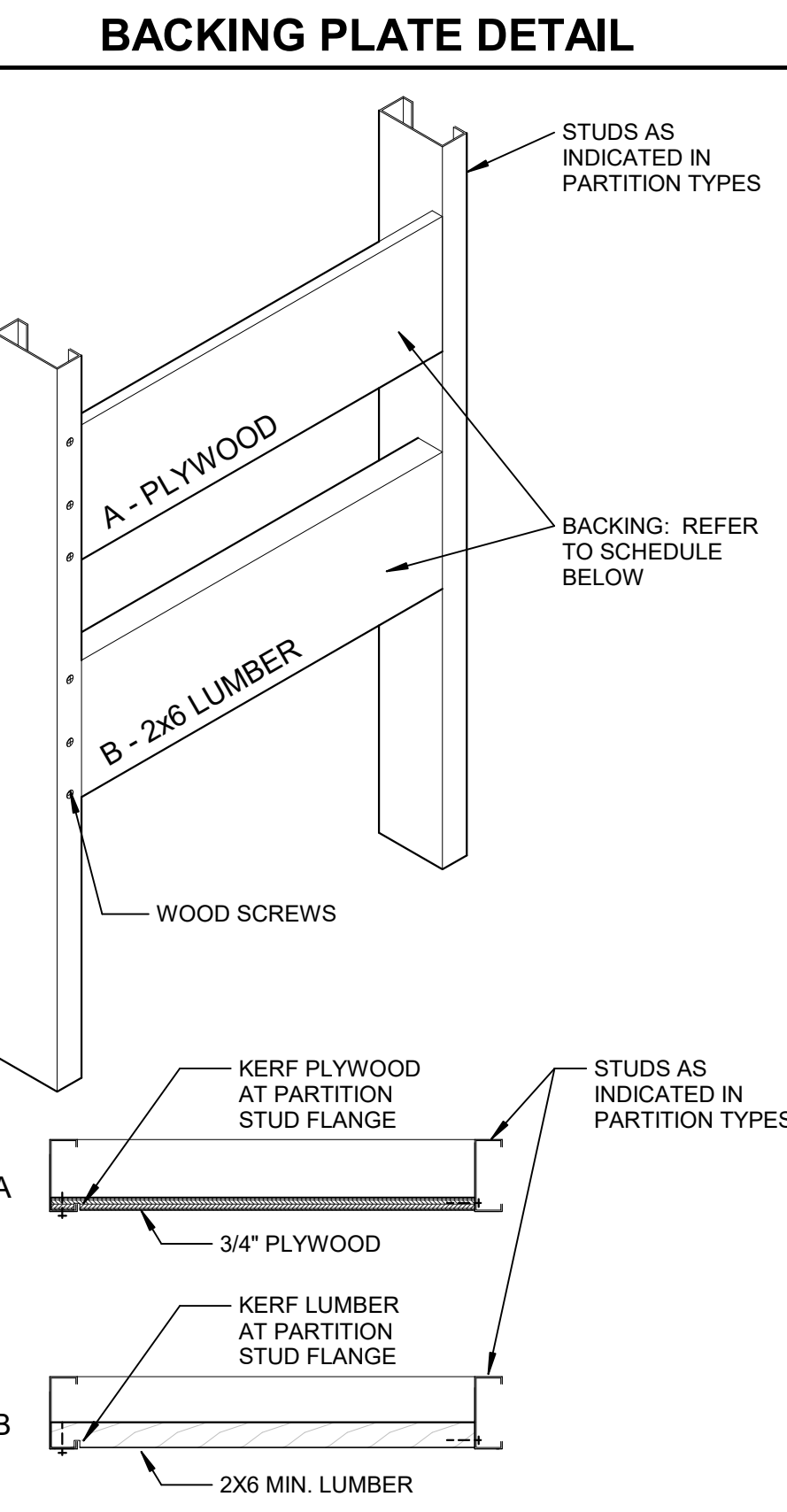
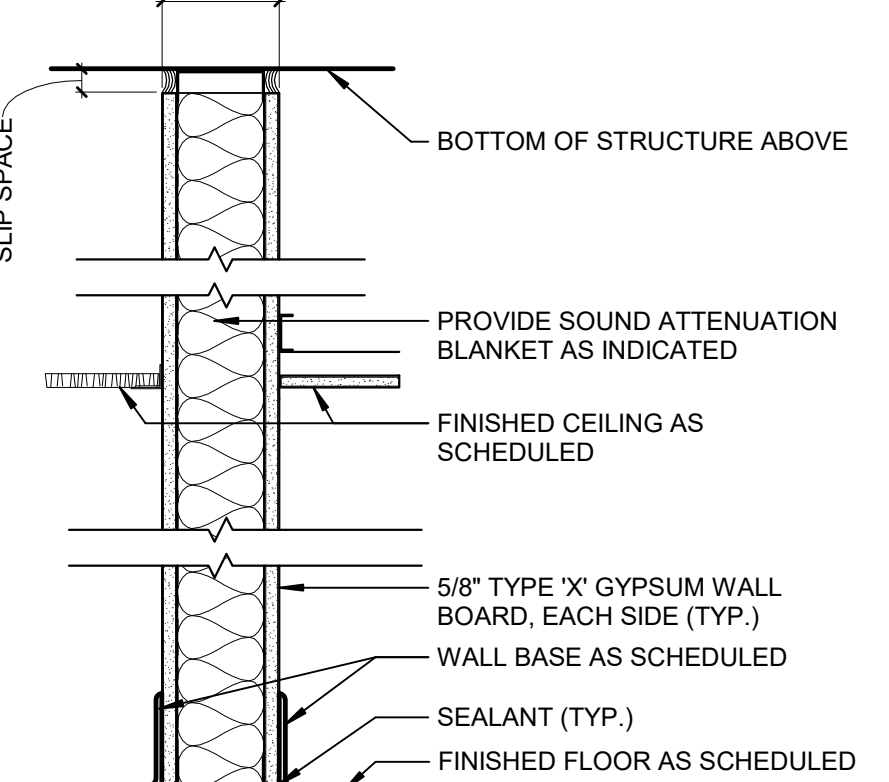
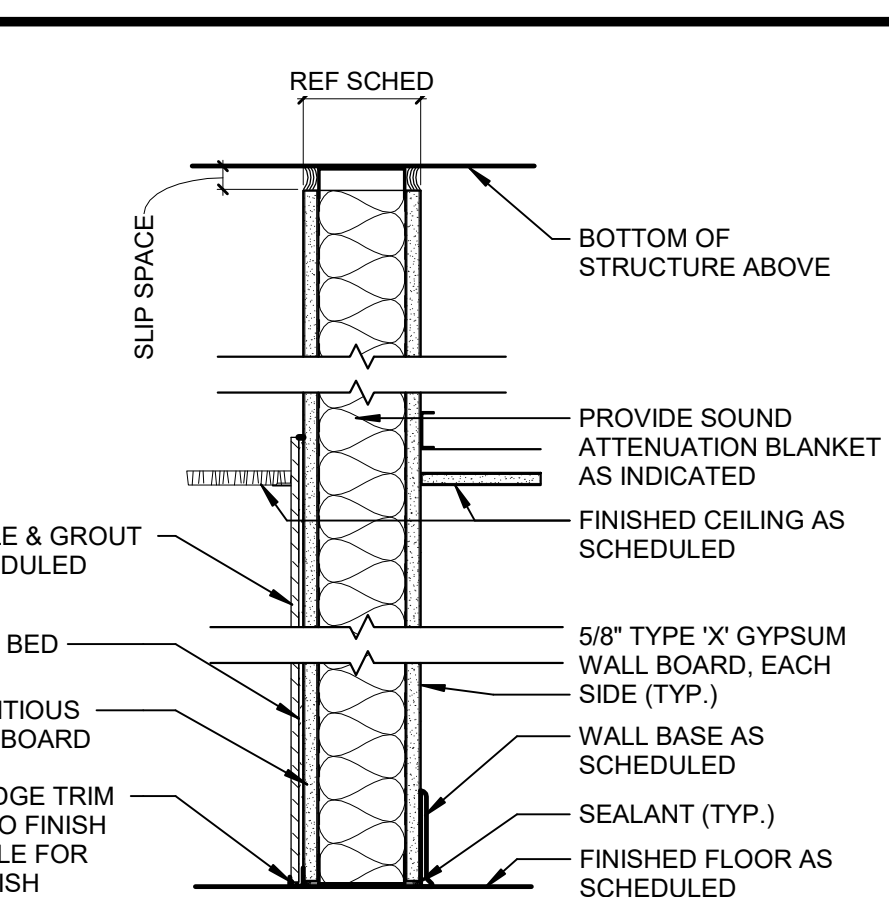
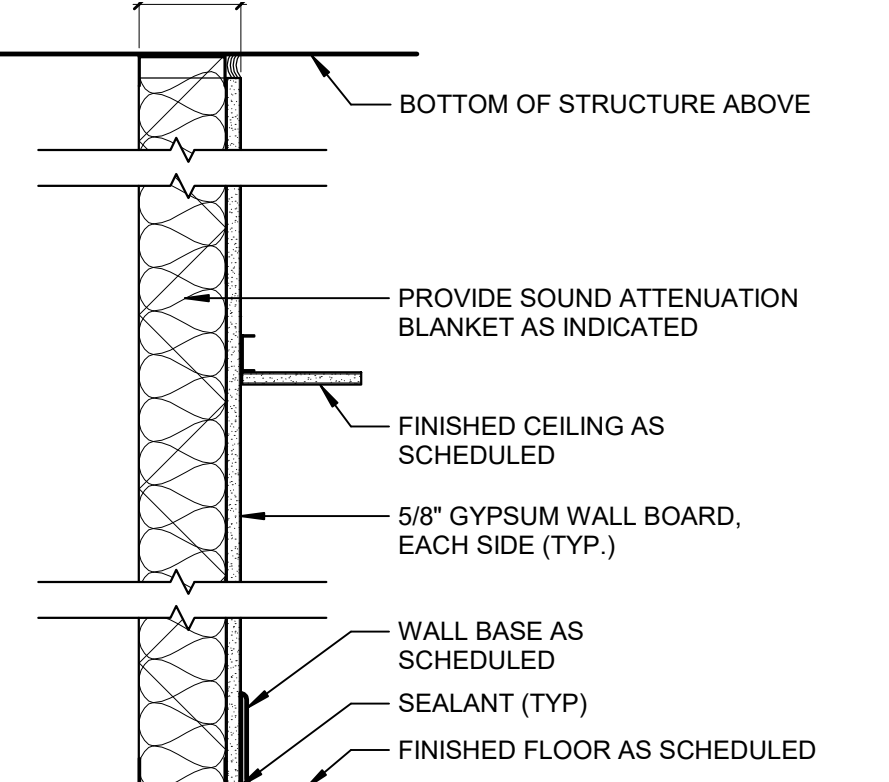
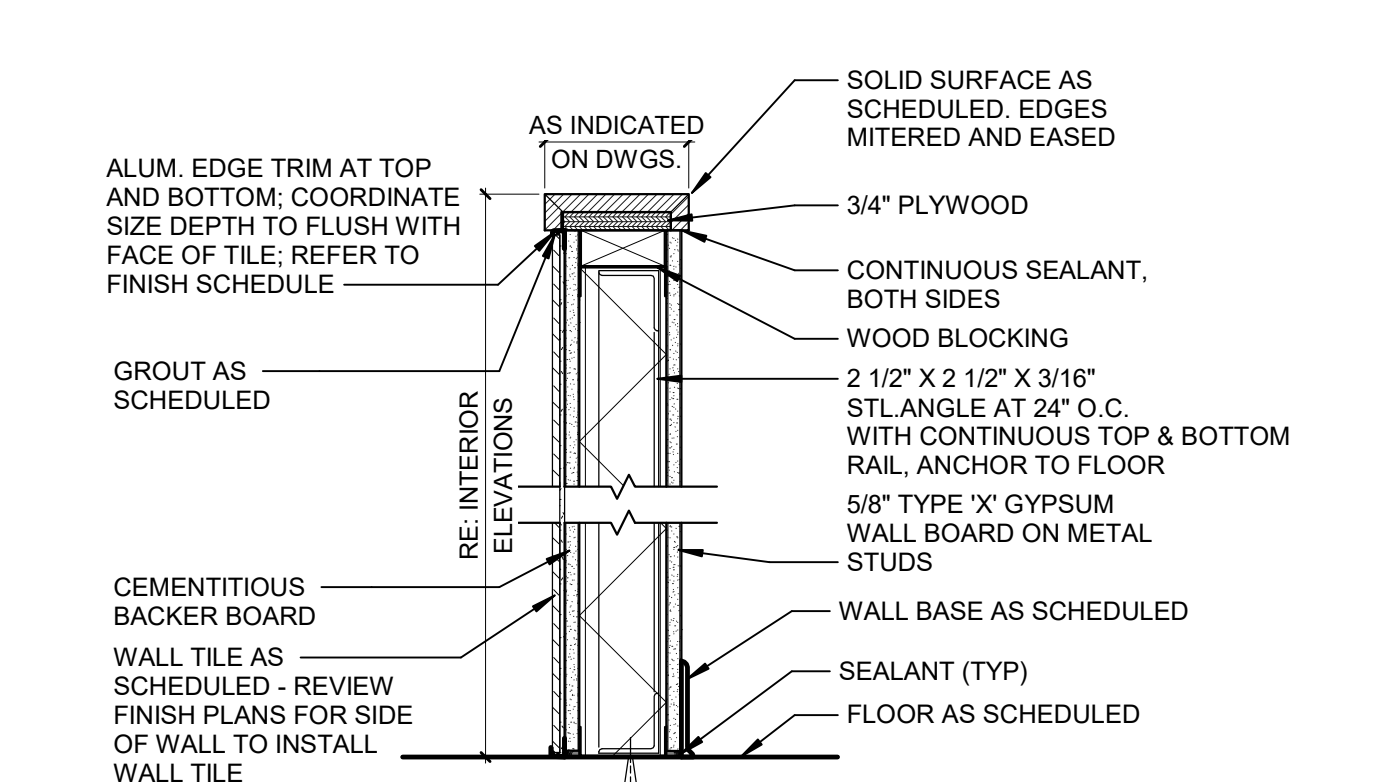
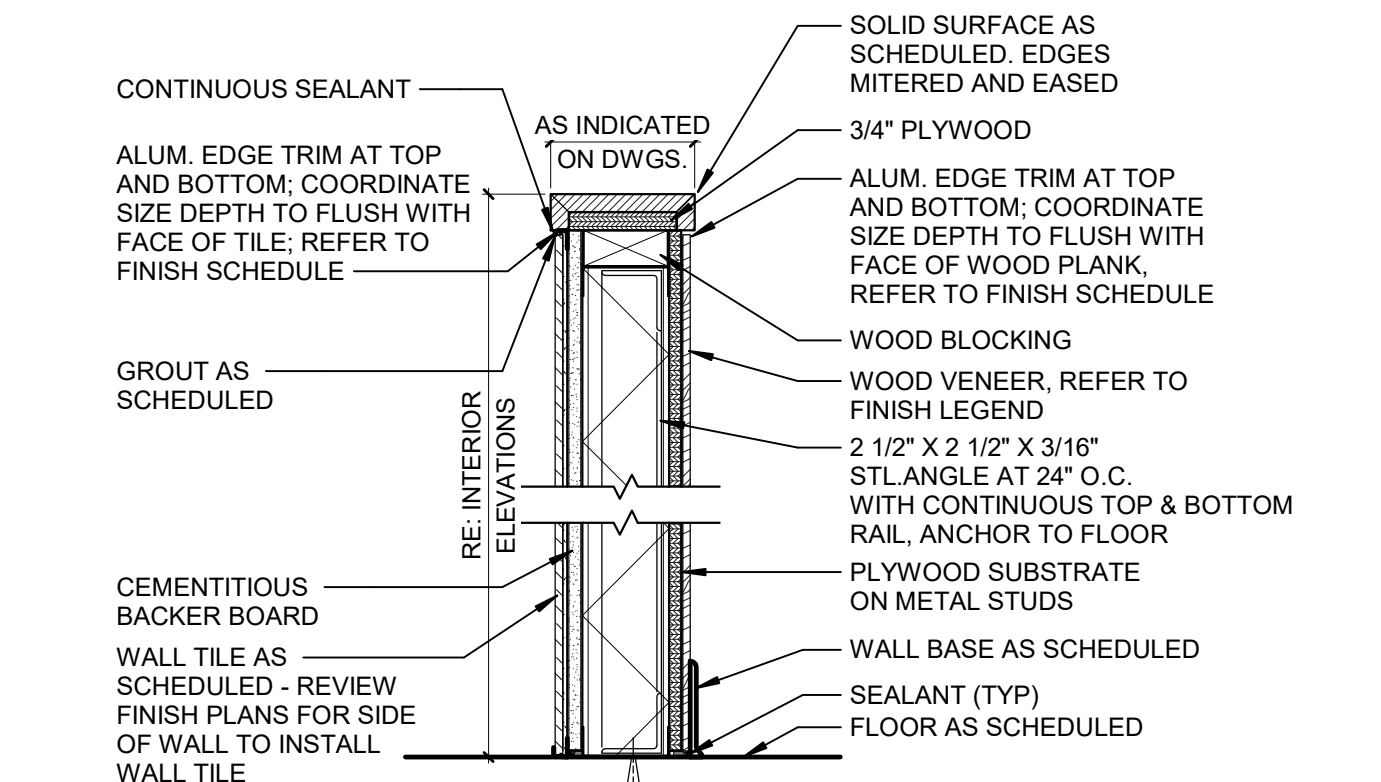
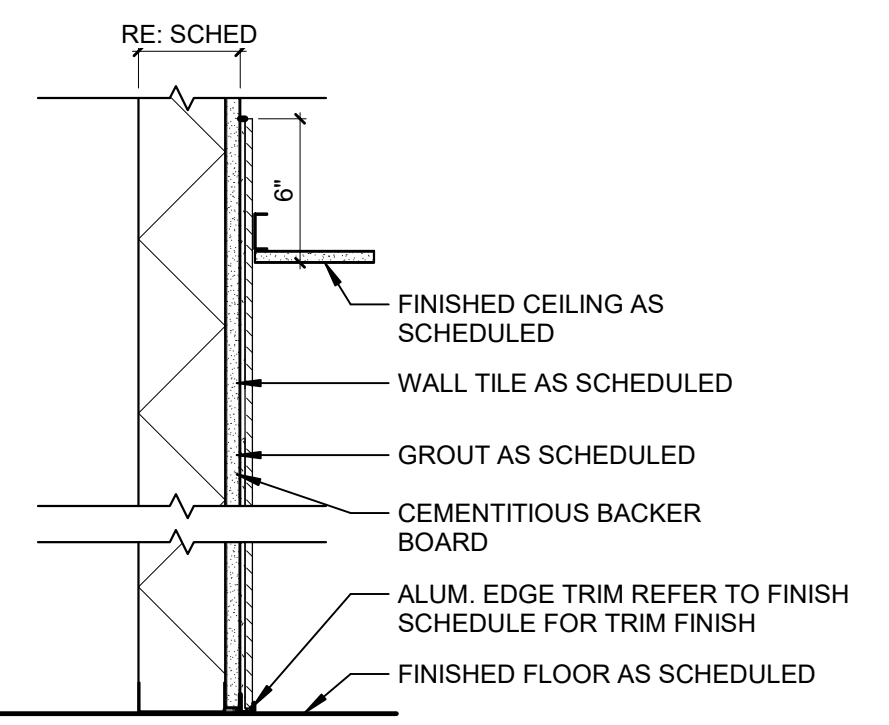
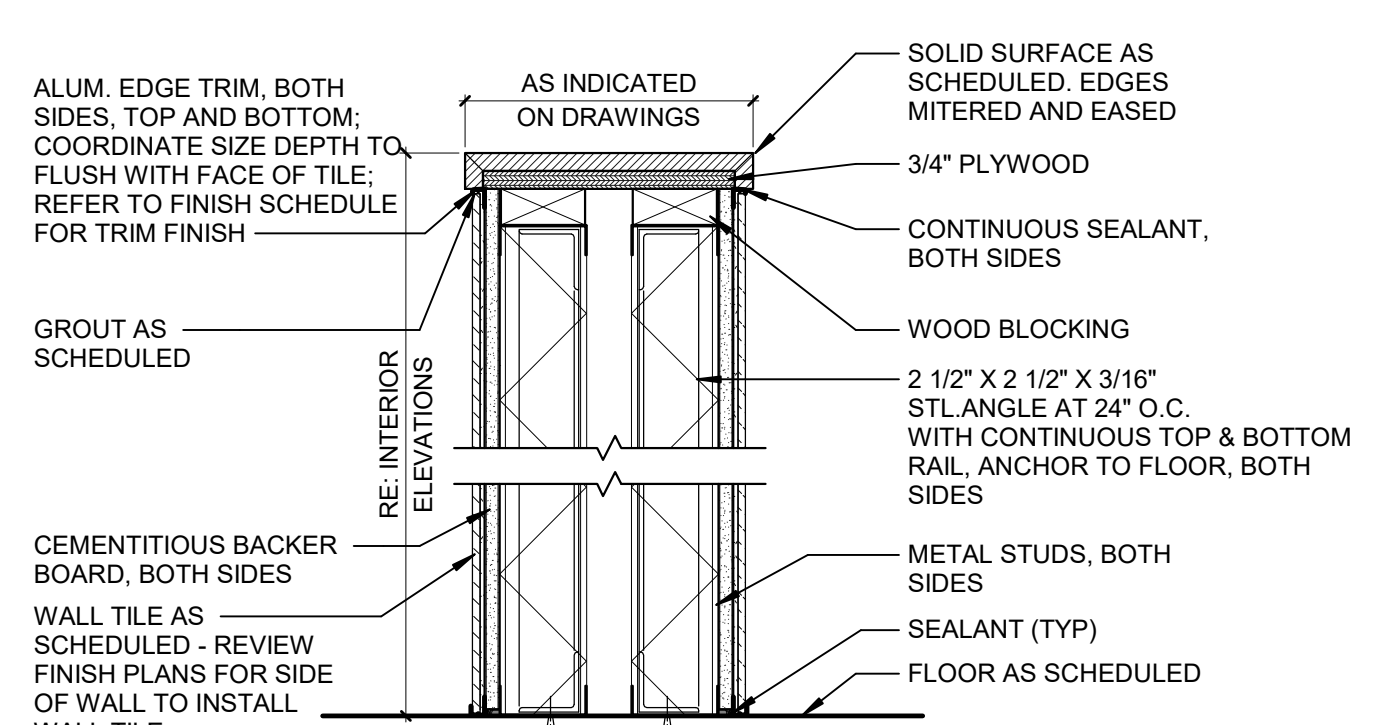
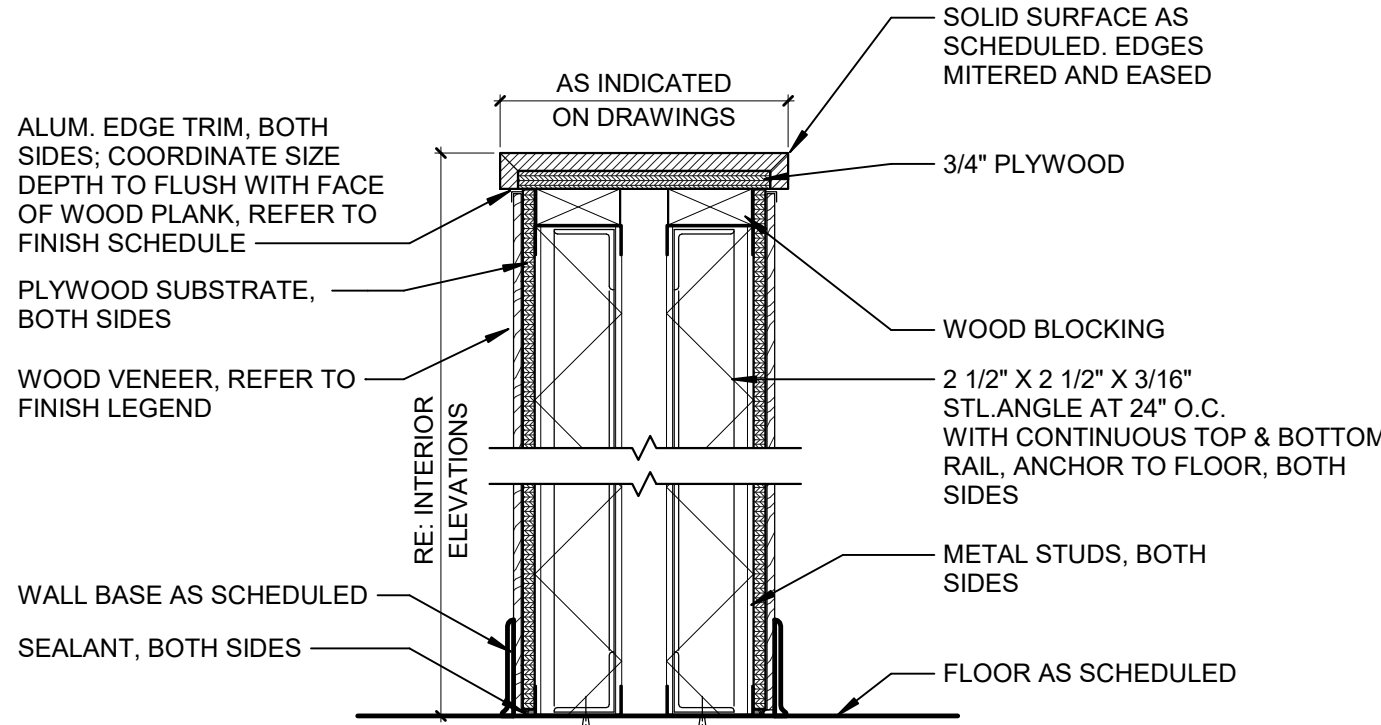
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PARTITION SCHEDULE						
TYPE	WALL CONSTRUCTION	DIM.	FIRE RATING	SOUND BATT?	UL NO.	STC RATING
A3	A3 - 3-5/8" METAL STUD - SINGLE LAYER OF GYPSUM WALL BOARD EACH SIDE, TO STRUCTURE ABOVE	4 7/8"	-	-	-	-
A3a	A3a - 3-5/8" METAL STUD - SINGLE LAYER OF GYPSUM WALL BOARD EACH SIDE, TO STRUCTURE ABOVE (STC-44)	4 7/8"	-	-	-	44
A3a1	A3a1 - 3-5/8" METAL STUD - SINGLE LAYER OF GYPSUM WALL BOARD EACH SIDE, TO STRUCTURE ABOVE (1-HR FIRE BARRIER)	4 7/8"	1-HR	-	U419	-
A6	A6 - 6" METAL STUD - SINGLE LAYER OF GYPSUM WALL BOARD EACH SIDE, TO STRUCTURE ABOVE	7 1/4"	-	-	-	-
A6a	A6a - 6" METAL STUD - SINGLE LAYER OF GYPSUM WALL BOARD EACH SIDE, TO STRUCTURE ABOVE (STC-44)	7 1/4"	-	-	-	44
A6a1	A6a1 - 6" METAL STUD - SINGLE LAYER OF GYPSUM WALL BOARD EACH SIDE, TO STRUCTURE ABOVE (1-HR FIRE BARRIER)	7 1/4"	1-HR	-	U419	-
C3.3	C3.3 - 3-5/8" METAL STUD - SINGLE LAYER OF CEMENTITIOUS WALL BOARD & WALL TILE ONE SIDE, STEM WALL	5 1/8"	-	-	-	-
C6.1	C6.1 - 6" METAL STUD - SINGLE LAYER OF GYPSUM WALL BOARD ONE SIDE, CEMENTITIOUS WALL BOARD & WALL TILE ONE SIDE	6 1/8"	-	-	-	-
F1	F1 - 1-5/8" METAL STUD - SINGLE LAYER OF GYPSUM WALL BOARD, TO STRUCTURE ABOVE	2 1/4"	-	-	-	-
F2	F2 - 2-1/2" METAL STUD - SINGLE LAYER OF GYPSUM WALL BOARD, TO STRUCTURE ABOVE	3 1/8"	-	-	-	-
F3	F3 - 3-5/8" METAL STUD - SINGLE LAYER OF GYPSUM WALL BOARD, TO STRUCTURE ABOVE	4 1/4"	-	-	-	-
F3.1	F3.1 - 3-5/8" METAL STUD - SINGLE LAYER OF CEMENTITIOUS WALL BOARD & WALL TILE ONE SIDE	5 5/8"	-	-	-	-
F6	F6 - 6" METAL STUD - SINGLE LAYER OF GYPSUM WALL BOARD, TO STRUCTURE ABOVE	6 5/8"	-	-	-	-
W3	W3 - 3-5/8" METAL STUD - WOOD WALL PANEL ON PLYWOOD, ONE SIDE, ABOVE CEILING	5 1/8"	-	-	-	-

NOTE: REFER TO INTERIOR ELEVATIONS, FINISH SCHEDULE, AND FINISH PLANS FOR WALL FINISHES



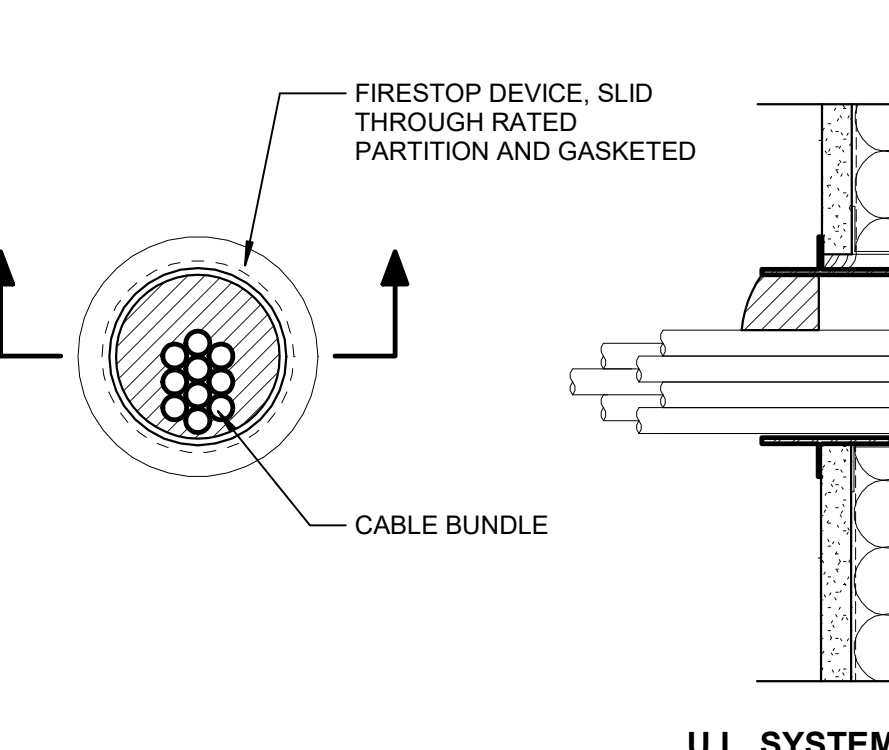
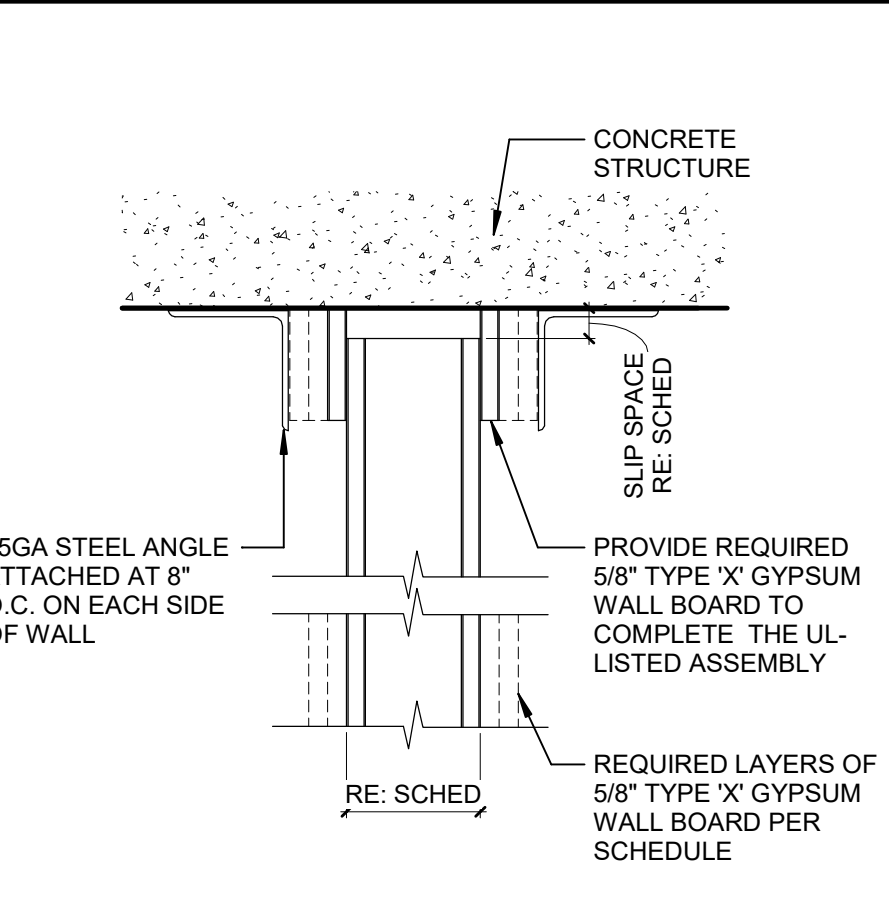
PARTITION TYPE:	DIMENSIONAL MODIFIER	TYPE MODIFIER:	RATING:	FIRE RATING DESIGNATIONS (FLOOR PLAN)
A. METAL STUD - SINGLE LAYER OF GYPSUM WALL BOARD EACH SIDE, TO STRUCTURE ABOVE	METAL STUD / FURRING 1 - 7/8" 2 - 1 5/8" 3 - 2 1/2" 4 - 3 5/8" 5 - 4 7/8" 6 - 5 7/8"	a. ACOUSTIC (STC-44) b. EXPANDED METAL c. FIRE BARRIER d. FIRE WALL e. SMOKE BARRIER	0 - NON-RATED 1 - 1 HOUR 2 - 2 HOUR 3 - 3 HOUR S - SMOKE	EXISTING RATED WALL TO REMAIN 0 HR RATED "SMOKE PARTITION" 1 HR RATED "FIRE BARRIER"
C. METAL STUD - SINGLE LAYER OF GYPSUM WALL BOARD EACH SIDE, CEMENTITIOUS WALL BOARD & WALL TILE ONE SIDE	CMU 1 - 9 5/8" 2 - 11 5/8" 4 - 3 5/8" 6 - 5 5/8" 8 - 7 5/8"			
F. METAL STUD OR FURRING CHANNELS - SINGLE LAYER OF GYPSUM WALL BOARD, TO STRUCTURE ABOVE				
W. METAL STUD - WOOD WALL PANEL ON PLYWOOD				



BACKING PLATE SCHEDULE		
TYPE	A	B
DESCRIPTION	3/4" PLYWOOD	2X6 NOMINAL LUMBER
1. PROVIDE CONCEALED PLYWOOD OR LUMBER BACKING (FIRE-RETARDANT-TREATED WHERE REQUIRED) FOR SUPPORT OF WALL-MOUNTED GRAB BARS, HANDRAILS, FIXTURES, ACCESSORIES, SPECIALTIES, EQUIPMENT, TRIM AND CABINETS.		
2. EXTEND BACKING TO NEXT STUD BEYOND ATTACHMENT LOCATION, BOTH DIRECTIONS.		
3. ANCHOR BACKING SECURELY TO STUDS. KERF BACKING AT STUD FLANGES SO BACKING IS TIGHT TO BACK OF GYPSUM BOARD.		

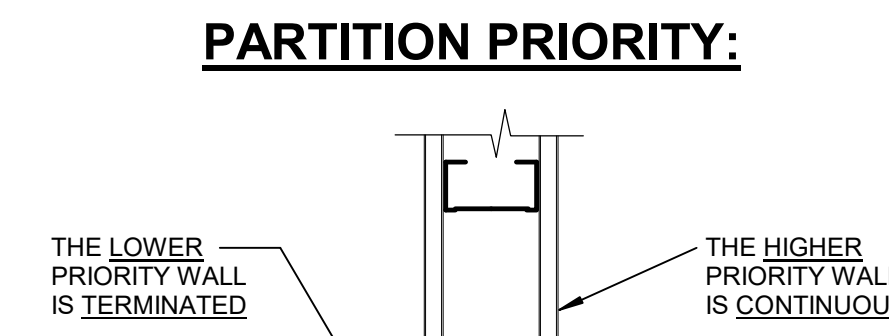
SLIP SPACE SCHEDULE		
HORIZONTAL SPAN OF FLOOR BETWEEN BEAMS	OTHER FLOORS	ROOF
≤ 30 FEET	1.5 INCH	2 INCH
30 FEET TO ≤ 50 FEET	2.5 INCHES	3.3 INCHES
50 FEET TO ≤ 60 FEET	3 INCHES	4 INCHES
60 FEET TO ≤ 70 FEET	3.5 INCHES	4.7 INCHES

1. REFER TO STRUCTURAL DRAWINGS FOR BEAM SPANS.  
2. SLIP SPACES GREATER THAN 1 1/2" SHALL USE PROPRIETARY DEEP LEG DEFLECTION TRACK.



### RATED PARTITION CONDUIT AND PIPE PENETRATIONS

- PARTITION NOTES:**
- A. STUD SPACING IS 16 INCHES ON CENTER MAX. UNLESS OTHERWISE INDICATED IN THE DRAWINGS, ALL PARTITIONS ARE TO EXTEND TO THE BOTTOM OF STRUCTURE ABOVE.
- B. REFER TO THE WALL HATCHES ON THE CODE SUMMARY SHEET (G101) FOR FIRE RATING LOCATIONS. PARTITIONS MUST CONFORM TO TESTED, RATED ASSEMBLIES WHEN THEY ARE INDICATED TO BE RATED ON THE ARCHITECTURAL CODE PLANS. WHEN NO RATING IS INDICATED, CONSTRUCT THE PARTITION PER THE INDICATED TYPE AS A NON-RATED ASSEMBLY.
- C. LABEL FIRE AND SMOKE WALLS AS FOLLOWS: LABEL BOTH SIDES; LABEL ALL SECTIONS; USE 4" HIGH STENCILS; USE FLUORESCENT ORANGE PAINT; LOCATE ABOUT 12" ABOVE THE FINISHED CEILING. SPACE STENCILS 10 FEET OC MAX. SPECIFIC LABELS TO READ "1HR", "2HR", "1HR SMOKE", "2HR SMOKE", "SMOKE", ETC AS IDENTIFIED IN THE LIFE SAFETY PLANS.
- D. PROVIDE STENCIL WITH THE LABEL "SOUND" AS DESCRIBED IN NOTE 3 ON ALL SOUND RATED WALLS AND THAT GO TO STRUCTURE.
- E. PROVIDE FIRE STOP & SMOKE STOP SYSTEMS PER SPECIFICATION AT ALL PENETRATIONS & OPENINGS (INCLUDING THE PERIMETER) PER SPECIFICATIONS IN ALL SOUND RATED WALLS.
- F. SEAL ALL PENETRATIONS & OPENINGS (INCLUDING THE PERIMETER) THROUGH FIRE RATED WALLS.
- G. THE PARTITION TYPES INDICATE THE BASIC WALL CONSTRUCTION ONLY. REFER TO ALL OF THE CONSTRUCTION DOCUMENTS FOR OTHER REQUIREMENTS INCLUDING: MECHANICAL, ELECTRICAL, PLUMBING, BLOCKING & BACKING, WALL BASE, WALL FINISH, AND RECESSED & SURFACE MOUNTED EQUIPMENT.
- H. PROVIDE TESTED, RATED ASSEMBLIES AT THE TOP OF ALL PART INDICATED TO BE FIRE OR SMOKE RATED THAT EXTEND TO THE BOTTOM OF STRUCTURE OR DECK ABOVE. ALL ASSEMBLIES SHALL BE TESTED BY UNDERWRITERS LABORATORY OR OTHER TESTING FACILITY ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION PROVIDE A FIRE AND SMOKE RATING CONSISTENT WITH THE PARTITION. THE ASSEMBLY SHALL ALLOW VERTICAL MOVEMENT OF THE SLIP SPACE SCHEDULE.
- I. PROVIDE MOISTURE RESISTANT GYPSUM WALL BOARD AT ALL WE LOCATIONS INCLUDING RESTROOMS AND LAUNDRY FACILITIES.



PARTITION TYPE	PRIORITY
3 HOUR FIRE	1 - HIGHEST
2 HOUR SHAFT	2
2 HOUR FIRE	3
1 HOUR SHAFT	4
1 HOUR SMOKE	5
ACOUSTIC	6
NO FIRE OR ACOUSTIC RATING	8 - LOWEST

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**UNIVERSITY OF NORTH TEXAS**

**KERR HALL INTERIOR RENOVATION**

1413 West Maple St  
Denton, TX 76201

**UNIVERSITY OF NORTH TEXAS**

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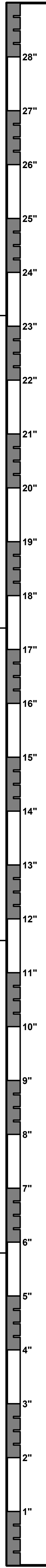
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NO	DESCRIPTION	DATE

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PARTITION TYPES, DETAILS, & NOTES

TreanorHL NO. HE0569.2302.01  
5 of 80





USE DESIGNATION COLOR LEGEND

	BUSINESS AREA
	KITCHENS - COMMERCIAL
	ASSEMBLY
	ACCESSORY STORAGE / MECHANICAL
	LOCKER ROOM
	DORMITORIES

FIRE RATING DESIGNATIONS

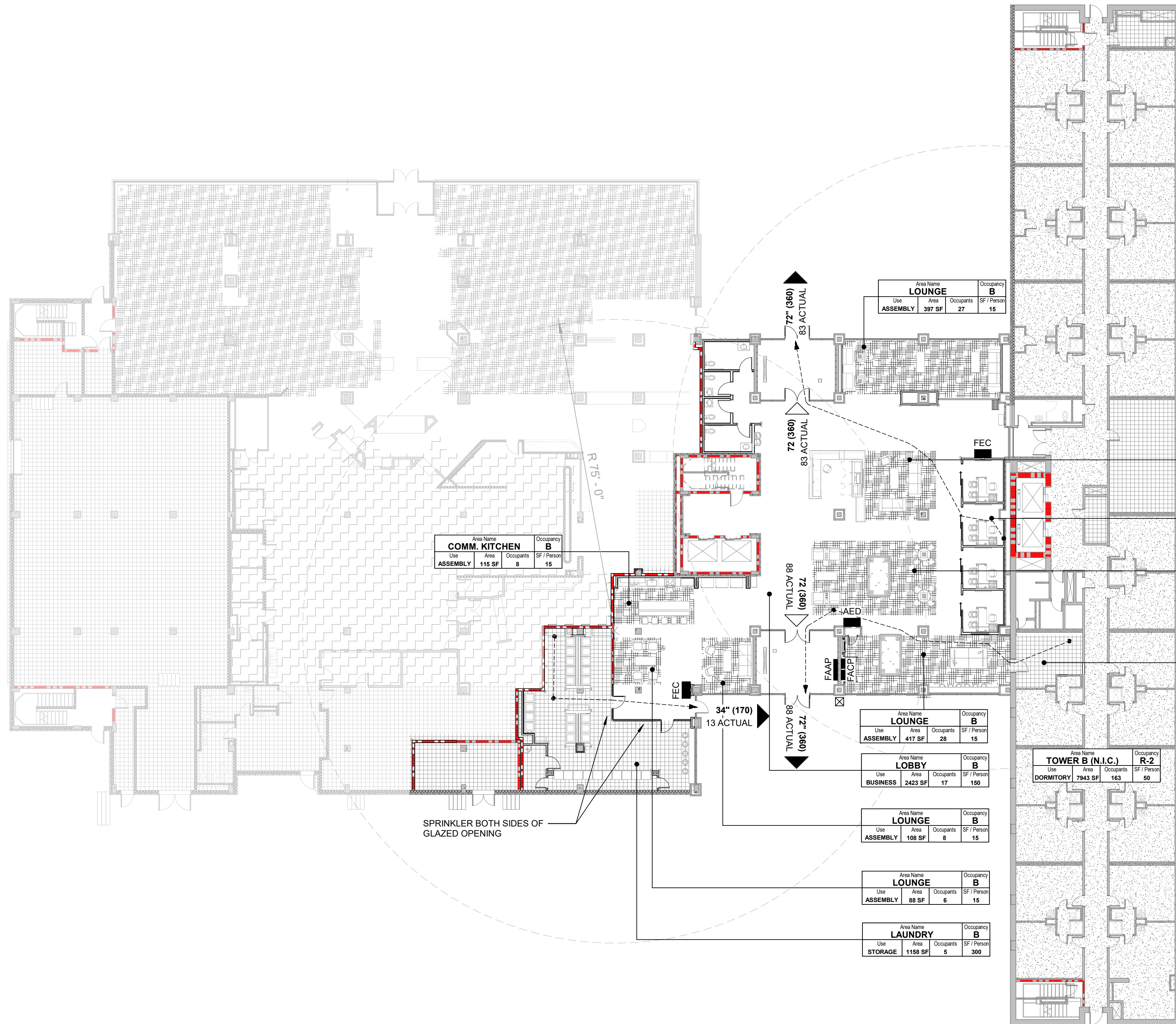
	EXISTING RATED WALL TO REMAIN
	0 HR RATED "SMOKE PARTITION"
	1 HR RATED "FIRE BARRIER"
	EXIT ACCESS TRAVEL DISTANCE
	COMMON PATH OF TRAVEL DECISION POINT
	42' - 6" TOTAL TRAVEL DISTANCE ALLOWABLE DISTANCE (300' - 0")
	25' - 0" COMMON PATH DISTANCE (75' - 0")
	MAX. COMMON PATH

EGRESS COMPONENT CAPACITY

	ACTUAL EXIT WIDTH (CAPACITY)
	ACTUAL OCCUPANT LOAD
	INTERIOR EXIT/EXIT INFORMATION
	FEC FIRE EXTINGUISHER & CABINET
	FE FIRE EXTINGUISHER & WALL MOUNTING BRACKET
	AED AED CABINET

USE DESIGNATION / OCCUPANT LOAD TAG

	SEATING AREA
	BUILDING OCCUPANCY CLASSIFICATION
	OCCUPANT LOAD FACTOR
	CALCULATED OCCUPANT LOAD
	AREA PER USE (TOTAL)
	USE DESIGNATION
	KNOX BOX - FIRE DEPARTMENT KEEPS KEYS
	FIRE ALARM CONTROL PANEL PANEL (EXISTING PANEL TO REMAIN)
	NEW SURFACE MOUNTED FIRE ALARM ANUNCIATOR PANEL



LIFE SAFETY LEGEND

PROJECT CODE SUMMARY

PROJECT NAME  
Kerr Hall Lobby, Restroom, & Laundry Renovation

ADDRESS  
1413 West Maple St  
Denton, TX 76201

OWNER  
University of North Texas

PROJECT DESCRIPTION  
Renovation of the Kerr Residence Hall Lobby. Scope includes construction of a new laundry room and community kitchen, extending into what was formerly the adjacent dining hall.

EXISTING GOVERNING CODES & STANDARDS

2020 NFPA 1 Fire Code  
2020 NFPA 101 Life Safety Code  
2021 International Building Code (IBC)  
2021 International Mechanical Code (IMC)  
2021 International Plumbing Code (IPC)  
2021 International Fire Code (IFC)  
2023 NFPA 70 National Electrical Code (NEC)  
2013 NFPA 72 National Fire Alarm Signaling Code  
Texas Accessibility Standards (TAS)  
Americans With Disabilities Act (ADA)

EXISTING CONSTRUCTION TYPE

Type II-B Construction

EXISTING FIRE RESISTANCE RATINGS - BUILDING ELEMENTS

Primary Structural Frame	1-hr
Exterior Bearing Walls	1-hr
Interior Bearing Walls	1-hr
Nonbearing Walls & Partitions	0-hr
Mechanical Shafts	1-hr
Floor Construction	1-hr
Roof Construction	1-hr

EXISTING BUILDING HEIGHTS & AREAS

Height: 93'-0" / 8 stories / 227,138 SF

Level 1	39,909
Level 2-8	9,933 + 16,814

REQUIRED OCCUPANCY SEPARATIONS

A 1-hr separation is required between the A-2 and B occupancy per IBC Table 508.4.

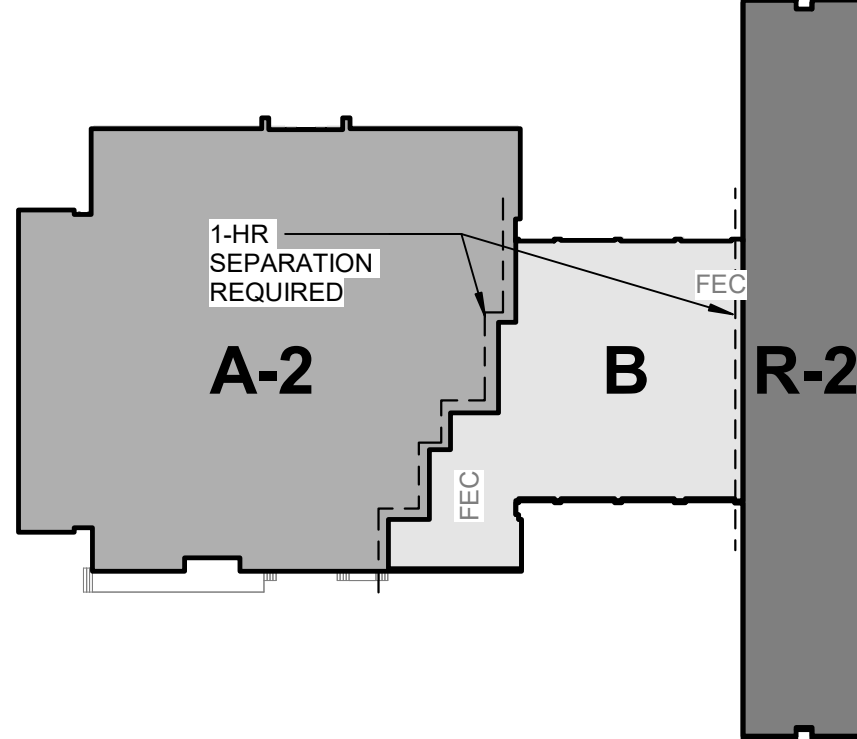
FIRE PROTECTION SYSTEM

AUTOMATIC SPRINKLER SYSTEM

The building is fully sprinklered.

FIRE EXTINGUISHERS

Provided throughout per NFPA 10. Maximum travel distance to the nearest fire extinguisher location = 75'-0".



OCCUPANT LOAD CALCULATIONS

AREA	OCCUPANT LOAD
DINING (A-2)	379
LOBBY (B)	169
DORMITORY (R-2)	169

TOTAL LEVEL 1 OCCUPANT LOAD

717

COMMON PATH OF TRAVEL:  
100-ft (B Occupancy), 75-ft (A Occupancy)

TOTAL TRAVEL DISTANCE:  
300-ft (B Occupancy), 250-ft (A Occupancy)

PLUMBING FIXTURE COUNTS  
(LOBBY, RESTROOMS, & LAUNDRY)

REQUIRED		WATER CLOSETS		LAVATORIES		DRINKING FOUNTAINS	SERVICE SINKS
SPACE	OCCUPANTS	M	W	M	W		
LOBBY	169	3"	3"	2"	2"	2	1

PROVIDED		WATER CLOSETS		LAVATORIES		DRINKING FOUNTAINS	SERVICE SINKS
SPACE	OCCUPANTS	M	W	M	W		
LOBBY	169	5"	5"	5"	5"	2	1

\* A total of (5) single-occupant restrooms, including the existing single-occupant restroom, are provided in the Lobby space. Each restroom contains its own lavatory. Of the (4) new single-occupant restrooms provided, (2) of them are accessible. This renovation increases the Lobby public restroom count from (1) to (5) unisex restrooms in Kerr Hall.

Note:  
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CODE SUMMARY

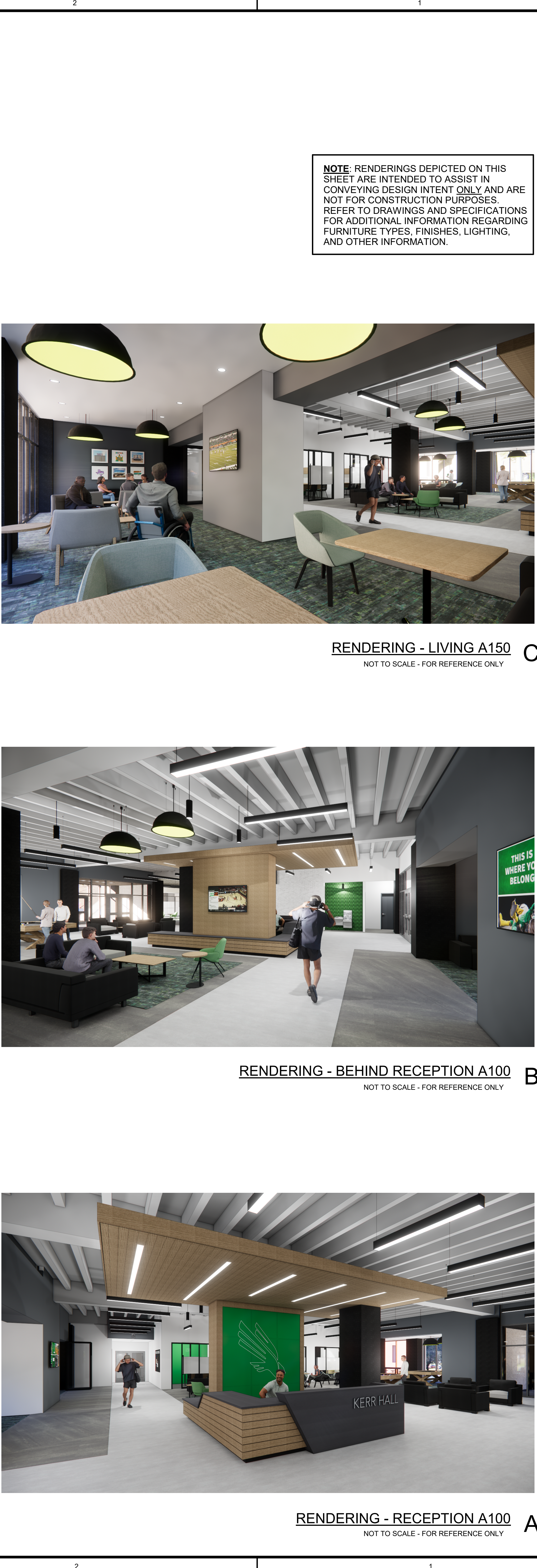




RENDERING - TYPICAL INDIVIDUAL RESTROOM A5  
NOT TO SCALE - FOR REFERENCE ONLY



RENDERING - VIEW FROM VESTIBULE A137 A3  
NOT TO SCALE - FOR REFERENCE ONLY



RENDERING - RECEPTION A100 A1  
NOT TO SCALE - FOR REFERENCE ONLY



RENDERING - COMMUNITY KITCHEN & VENDING A134 B5  
NOT TO SCALE - FOR REFERENCE ONLY



RENDERING - COMMONS A101 B3  
NOT TO SCALE - FOR REFERENCE ONLY



RENDERING - BEHIND RECEPTION A100 B1  
NOT TO SCALE - FOR REFERENCE ONLY



RENDERING - GAMING A138 C3  
NOT TO SCALE - FOR REFERENCE ONLY



RENDERING - LIVING A150 C1  
NOT TO SCALE - FOR REFERENCE ONLY

**NOTE:** RENDERINGS DEPICTED ON THIS SHEET ARE INTENDED TO ASSIST IN CONVEYING DESIGN INTENT ONLY AND ARE NOT FOR CONSTRUCTION PURPOSES. REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING FURNITURE TYPES, FINISHES, LIGHTING, AND OTHER INFORMATION.

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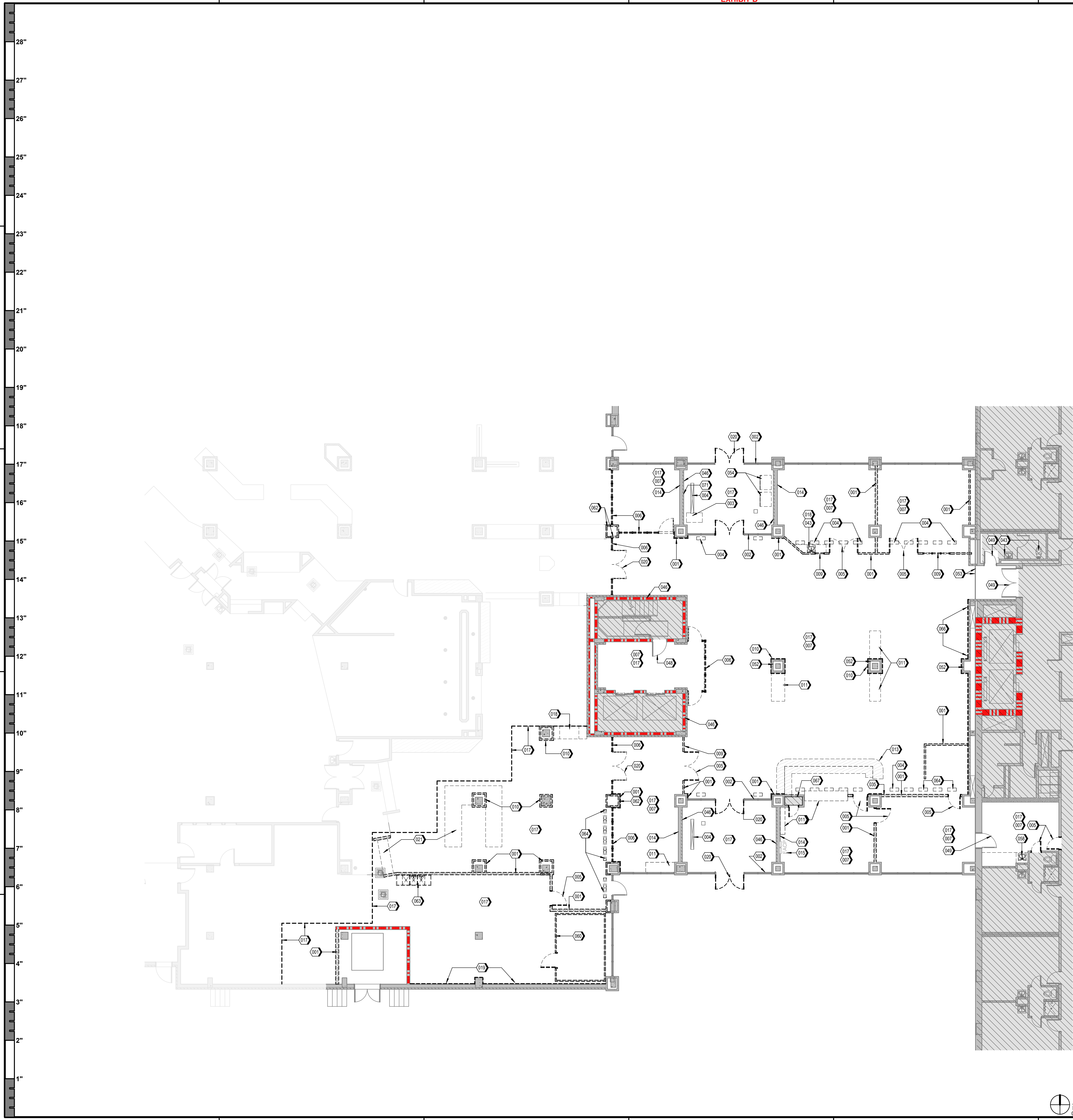
RENDERINGS - LOBBY



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EXHIBIT B



DEMOLITION PLAN (LOBBY)

A1

## DEMOLITION GENERAL NOTES

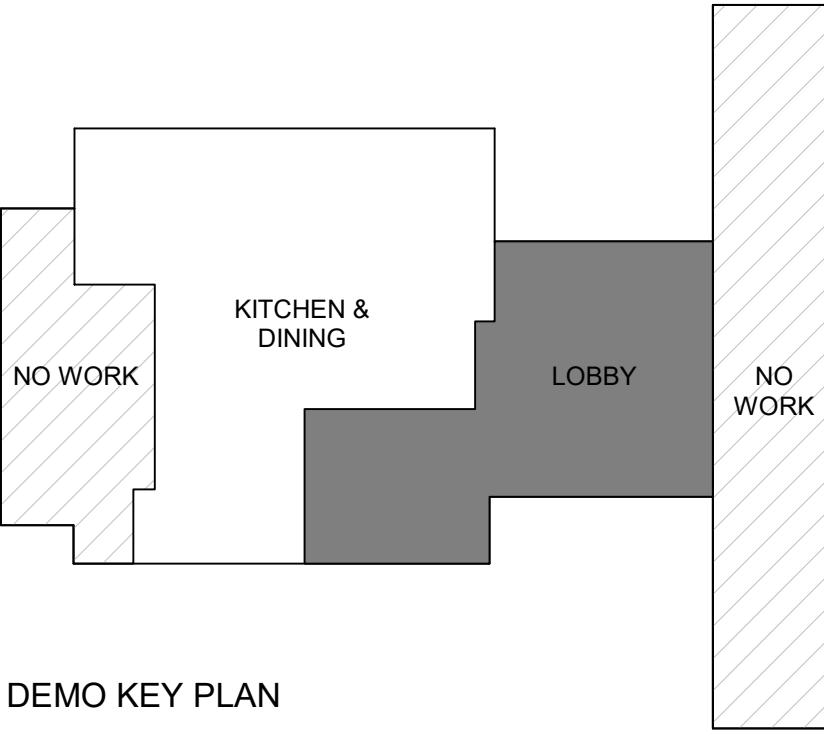
- DO NOT SCALE DRAWINGS.
- VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING WORK.
- ITEMS NOTED TO BE SALVAGED ARE TO BE RETURNED TO OWNER OR USED IN NEW WORK WITHIN THE PROJECT SCOPE. ALL DEMOLITION MATERIALS NOT CLAIMED BY THE OWNER, OR TO BE REUSED, ARE TO BE DISPOSED OF OFF-SITE AS PER LOCAL REGULATIONS AT THE CONTRACTOR'S EXPENSE.
- AREAS TO REMAIN THAT ARE AFFECTED BY DEMOLITION SHALL BE PATCHED AND REPAIRED FOR NEW SCOPE OF WORK.
- REMAINING FURNISHINGS AND EQUIPMENT SHALL BE TURNED OVER TO OWNER PRIOR TO DEMOLITION.
- EXISTING CONDITIONS INFORMATION WAS OBTAINED FROM DOCUMENTS AND INFORMATION SUPPLIED TO THE ARCHITECT. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS, SIZES, ELEVATIONS, ETC..
- REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON DRAWINGS. ITEMS SHOWN DASHED ON DEMOLITION PLAN ARE TO BE REMOVED UNLESS NOTED OTHERWISE. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN ON SITE, THE CONTRACTOR SHALL REPAIR THE DAMAGE AT NO COST TO THE OWNER.
- PREPARE EXISTING CONCRETE SUBSTRATE FOR NEW FINISHES.
- REFER TO ENGINEERING DEMOLITION DRAWINGS FOR ADDITIONAL ITEMS TO BE DEMOLISHED. REFER TO MEP DRAWINGS FOR DEMOLITION OF MEP SYSTEMS TO IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND/OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH ALL RELEVANT SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
- ALL EXISTING TRASH AND RECYCLING RECEPTACLES TO BE RETURNED TO OWNER.
- IF SUSPECTED HAZARDOUS MATERIALS ARE ENCOUNTERED, STOP WORK IMMEDIATELY AND NOTIFY OWNER. DO NOT RESUME WORK UNTIL DIRECTED BY THE OWNER.
- REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- MAINTAIN THE INTEGRITY OF ALL EXISTING RATED WALLS AND FIRE SEAL ANY PENETRATIONS WITH A U.L. APPROVED ASSEMBLY.
- EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS SHALL BE PATCHED AND FINISHED SMOOTH.
- REFER TO MEP DRAWINGS TO COORDINATE REQUIRED SLAB TRENCHING/CONCRETE INFILL TO ACCOMMODATE INSTALLATION AND/OR REPAIRS OF BELOW-SLAB UTILITIES.
- REMOVE ANY REMAINING CEILING ELEMENTS, NOT ASSOCIATED WITH NEW WORK AT CEILINGS TO BE OPEN TO STRUCTURE, INCLUDING: CEILING GRID, CEILING TILE, GYPSUM, SOFFITS/BULKHEADS, ABANDONED MECHANICAL DUCTWORK AND EQUIPMENT, ABANDONED ELECTRICAL CONDUITS AND FIXTURES, ABANDONED PIPING, ETC. REFER TO MEP DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.

## KEYNOTES

001	REMOVE EXISTING WALLS AND WALL BASE
002	EXISTING STOREFRONT TO REMAIN
003	REMOVE EXISTING ATM MACHINE, RETURN TO OWNER
004	EXISTING FLOOR VENTS TO REMAIN; REMOVE EXISTING VENT COVERS, REPLACE VENT COVERS WITH NEW, METAL GRILLES, TYPICAL. REFER TO MECHANICAL. COORDINATE NEW GRILLES WITH NEW FLOORING PER FINISH PLAN.
005	REMOVE EXISTING DOOR AND FRAMES
006	REMOVE EXISTING STOREFRONT SYSTEM
007	REMOVE EXISTING CEILING AND CEILING MOUNTED FIXTURES
009	REMOVE EXISTING INTERIOR WINDOWS AND FRAMES
010	REMOVE EXISTING WOOD COLUMN WRAPS, TYPICAL; EXISTING CAST-IN-PLACE COLUMNS TO REMAIN
011	REMOVE EXISTING BUILT-INS. REFER TO ELECTRICAL DRAWINGS TO RELOCATE OR REMOVE EXISTING ELECTRICAL
013	REMOVE EXISTING BUILT-IN DESK AND OVERHEAD BULKHEAD
014	EXISTING WALL TO REMAIN; REMOVE WALL BASE FROM ALL EXISTING WALLS IN SCOPE, TYPICAL
015	EXISTING FIRE ALARM CONTROL DEVICES TO REMAIN
017	REMOVE EXISTING FLOORING, PREP SUBFLOOR FOR NEW FLOOR FINISH
018	REMOVE EXISTING CASEWORK / MILLWORK
019	REMOVE EXISTING FRP AND/OR WALL TILE FROM WALLS TO REMAIN. PREP WALLS AS REQUIRED FOR NEW WALL FINISH.
020	ALTERNATE #2: REMOVE EXISTING FRP STOREFRONT DOORS, EXISTING STOREFRONT SYSTEM TO REMAIN
021	REMOVE EXISTING SERVING EQUIPMENT AND ASSOCIATED COMPONENTS, TYPICAL
035	EXISTING AED, SALVAGE FOR RELOCATION
043	EXISTING TOILET, SINK, TOILET PARTITION, AND RESTROOM FINISHES TO REMAIN
046	EXISTING BRICK TO REMAIN
048	EXISTING EXIT STAIR DOOR AND FRAME TO REMAIN; PREP TO PAINT
049	EXISTING DOOR & FRAME TO REMAIN; REFER TO DOOR SCHEDULE FOR EXTENT OF SCOPE IN THIS AREA
052	EXISTING PRECAST EXPOSED AGGREGATE COLUMN COVERS TO REMAIN, TYPICAL
053	EXISTING 1" EXPANSION JOINT
054	SALVAGE EXISTING VENDING MACHINE AND RELOCATE PER DRAWINGS
056	REMOVE EXISTING PLUMBING FIXTURE, CAP LINES BEHIND WALL, REFER TO PLUMBING
060	REMOVE EXISTING COOLER; REPAIR FLOOR SLAB AS REQUIRED
062	REMOVE EXISTING FAUX COLUMN WRAP
063	REMOVE EXISTING COMPARTMENT SINK
064	INFILL AND DECOMMISSION EXISTING FLOOR REGISTERS; LEVEL AND PREP SURFACE TO RECEIVE NEW FLOORING
066	REMOVE EXISTING WALL FINISH ON EXISTING BRICK VENEER, BRICK VENEER BEYOND TO REMAIN
067	EXISTING IT CLOSET TO REMAIN; PATCH, REPAIR, AND PREP TO PAINT EXISTING WALLS TO MATCH NEW
071	REMOVE EXISTING BULLETIN BOARDS; PATCH AND PREP TO RECEIVE NEW PAINT FINISH.

## DEMOLITION LEGEND

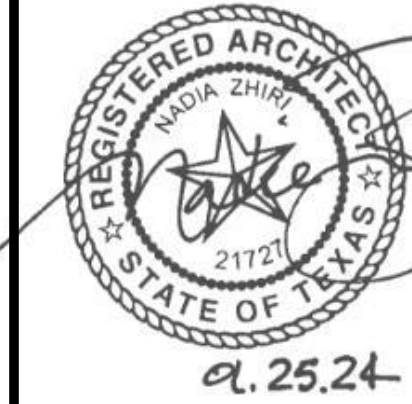
- AREAS NOT IN SCOPE
- EXISTING WALL TO REMAIN; PROTECT IN PLACE
- EXISTING FIRE-RATED WALL TO REMAIN
- EXISTING DOOR, FRAME AND ASSOCIATED HARDWARE TO REMAIN; PROTECT IN PLACE
- REMOVE EXISTING WALL IN ITS ENTIRETY
- REMOVE DOOR AND FRAME IN ITS ENTIRETY U.N.O.; SALVAGE AND STORE EXISTING DOOR HARDWARE IN GOOD WORKING CONDITION



DEMO KEY PLAN

Note:

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Date: FEBRUARY 6, 2024

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NO	DESCRIPTION	DATE

AD101A

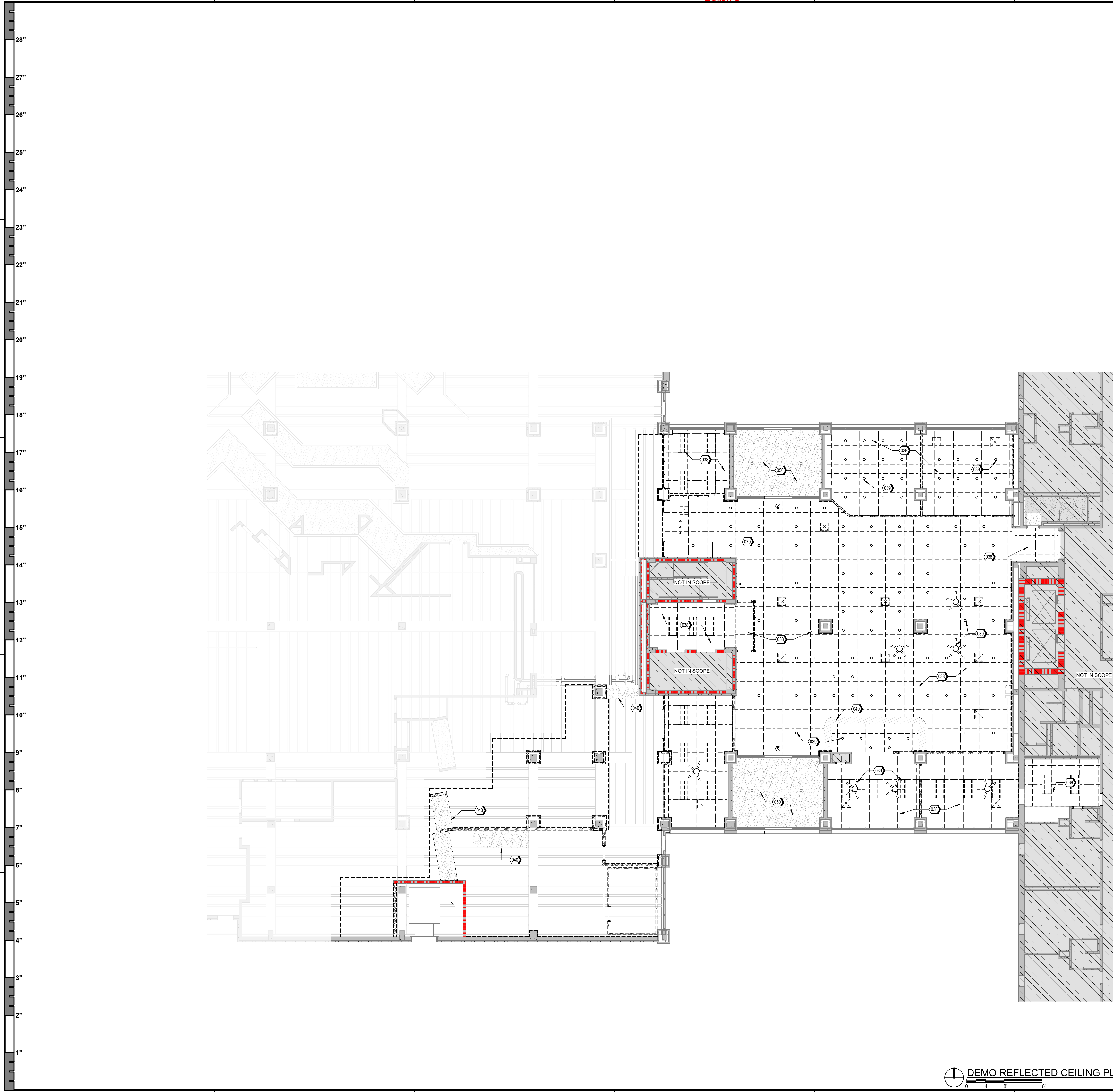
DEMOLITION PLAN  
(LOBBY, RESTROOMS, & LAUNDRY)

TreanorHL NO. HE0569.2302.01



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## DEMOLITION GENERAL NOTES

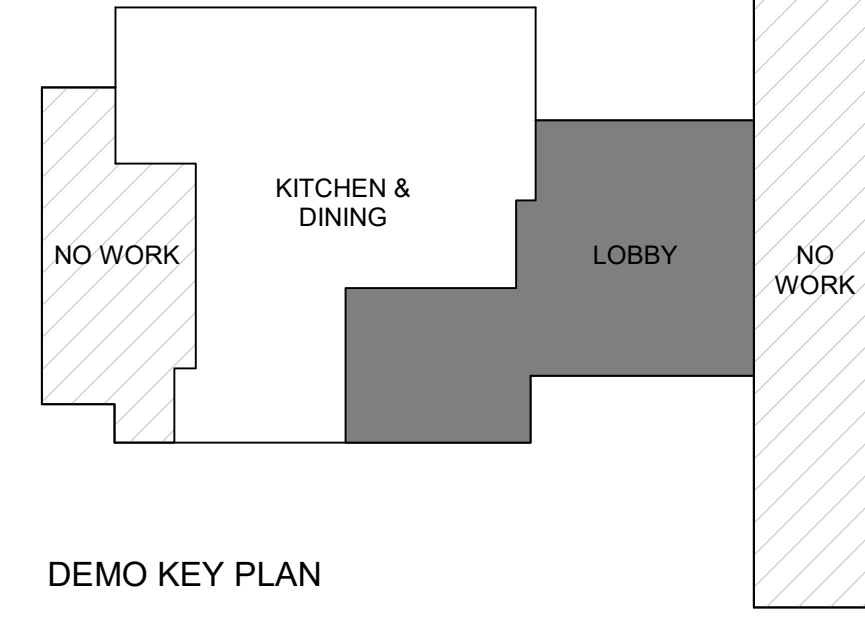
- DO NOT SCALE DRAWINGS.
- VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING WORK.
- ITEMS NOTED TO BE SALVAGED ARE TO BE RETURNED TO OWNER OR USED IN NEW WORK WITHIN THE PROJECT SCOPE. ALL DEMOLITION MATERIALS NOT CLAIMED BY THE OWNER, OR TO BE REUSED, ARE TO BE DISPOSED OF OFF-SITE AS PER LOCAL REGULATIONS AT THE CONTRACTOR'S EXPENSE.
- AREAS TO REMAIN THAT ARE AFFECTED BY DEMOLITION SHALL BE PATCHED AND REPAIRED FOR NEW SCOPE OF WORK.
- REMAINING FURNISHINGS AND EQUIPMENT SHALL BE TURNED OVER TO OWNER PRIOR TO DEMOLITION.
- EXISTING CONDITIONS INFORMATION WAS OBTAINED FROM DOCUMENTS AND INFORMATION SUPPLIED TO THE ARCHITECT. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS, SIZES, ELEVATIONS, ETC.,
- REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON DRAWINGS. ITEMS SHOWN DASHED ON DEMOLITION PLAN ARE TO BE REMOVED UNLESS NOTED OTHERWISE. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN ON SITE, THE CONTRACTOR SHALL REPAIR THE DAMAGE AT NO COST TO THE OWNER.
- PREPARE EXISTING CONCRETE SUBSTRATE FOR NEW FINISHES.
- REFER TO ENGINEERING DEMOLITION DRAWINGS FOR ADDITIONAL ITEMS TO BE DEMOLISHED. REFER TO MEP DRAWINGS FOR DEMOLITION OF MEP SYSTEMS TO IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND/OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH ALL RELEVANT SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
- ALL EXISTING TRASH AND RECYCLING RECEPTACLES TO BE RETURNED TO OWNER.
- THIS DEMOLITION PLAN OUTLINES THE SCOPE OF THE WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. REFE THE DRAWINGS FOR NEW CONSTRUCTION FOR ADDITIONAL INFORMATION.
- IF SUSPECTED HAZARDOUS MATERIALS ARE ENCOUNTERED, STOP WORK IMMEDIATELY AND NOTIFY OWNER. DO NOT RESUME WORK UNTIL DIRECTED BY THE OWNER.
- REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- MAINTAIN THE INTEGRITY OF ALL EXISTING RATED WALLS AND FIRE SEAL ANY PENETRATIONS WITH A U.L. APPROVED ASSEMBLY.
- EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS SHALL BE PATCHED AND FINISHED SMOOTH.
- REFER TO MEP DRAWINGS TO COORDINATE REQUIRED SLAB TRENCHING/CONCRETE INFILL TO ACCOMMODATE INSTALLATION AND/OR REPAIRS OF BELOW-SLAB UTILITIES.
- REMOVE ANY REMAINING CEILING ELEMENTS, NOT ASSOCIATED WITH NEW WORK AT CEILINGS TO BE OPEN TO STRUCTURE, INCLUDING: CEILING GRID, CEILING TILE, GYPSUM SOFFITS/BULKHEADS, ABANDONED MECHANICAL DUCTWORK AND EQUIPMENT, ABANDONED ELECTRICAL CONDUITS AND FIXTURES, ABANDONED PIPING, ETC. REFER TO MEP DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.

## KEYNOTES

- |     |   |
|-----|---|
| 038 | REMOVE EXISTING CEILING, CEILING GRID, AND CEILING MOUNTED DEVICES, TYP.  |
| 039 | REMOVE EXISTING CEILING FANS AND LIGHT FIXTURES, TYP.   |
| 040 | REMOVE GYP SOFFIT, AND ASSOCIATED FRAMED BULKHEAD   |
| 050 | EXISTING CEILING AND LIGHT FIXTURES TO REMAIN; PATCH AND REPAIR AS REQUIRED   |
| 070 | REMOVE ALL EXISTING WIRE MOLDS, EXISTING MIRROR, EXISTING CARD READER, EXISTING SIGNAGE, DIRECTORY, AND BULLETIN BOARD. PATCH AND PREP TO RECEIVE NEW PAINT FINISH. |

## DEMOLITION LEGEND

- |  |  |
|--|--|
|  | AREAS NOT IN SCOPE   |
|  | EXISTING WALL TO REMAIN; PROTECT IN PLACE  |
|  | EXISTING FIRE-RATED WALL TO REMAIN   |
|  | EXISTING DOOR, FRAME AND ASSOCIATED HARDWARE TO REMAIN; PROTECT IN PLACE   |
|  | REMOVE EXISTING WALL IN ITS ENTIRETY   |
|  | REMOVE DOOR AND FRAME IN ITS ENTIRETY U.N.O.; SALVAGE AND STORE EXISTING DOOR HARDWARE IN GOOD WORKING CONDITION |

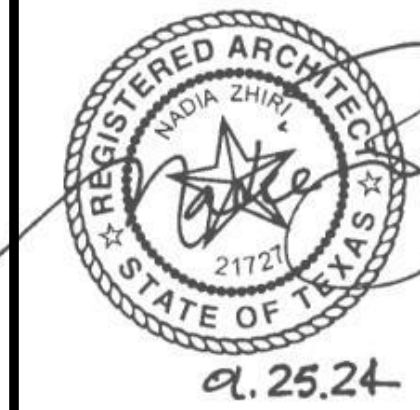


DEMO REFLECTED CEILING PLAN (PHASE 1)

A1

Note:

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Issue: 100% ISSUE FOR CONSTRUCTION  
Date: FEBRUARY 6, 2024

REVISIONS		
NO	DESCRIPTION	DATE

AD151A

DEMOLITION RCP  
(LOBBY, RESTROOMS, & LAUNDRY)

TreanorHL NO. HE0569.2302.01



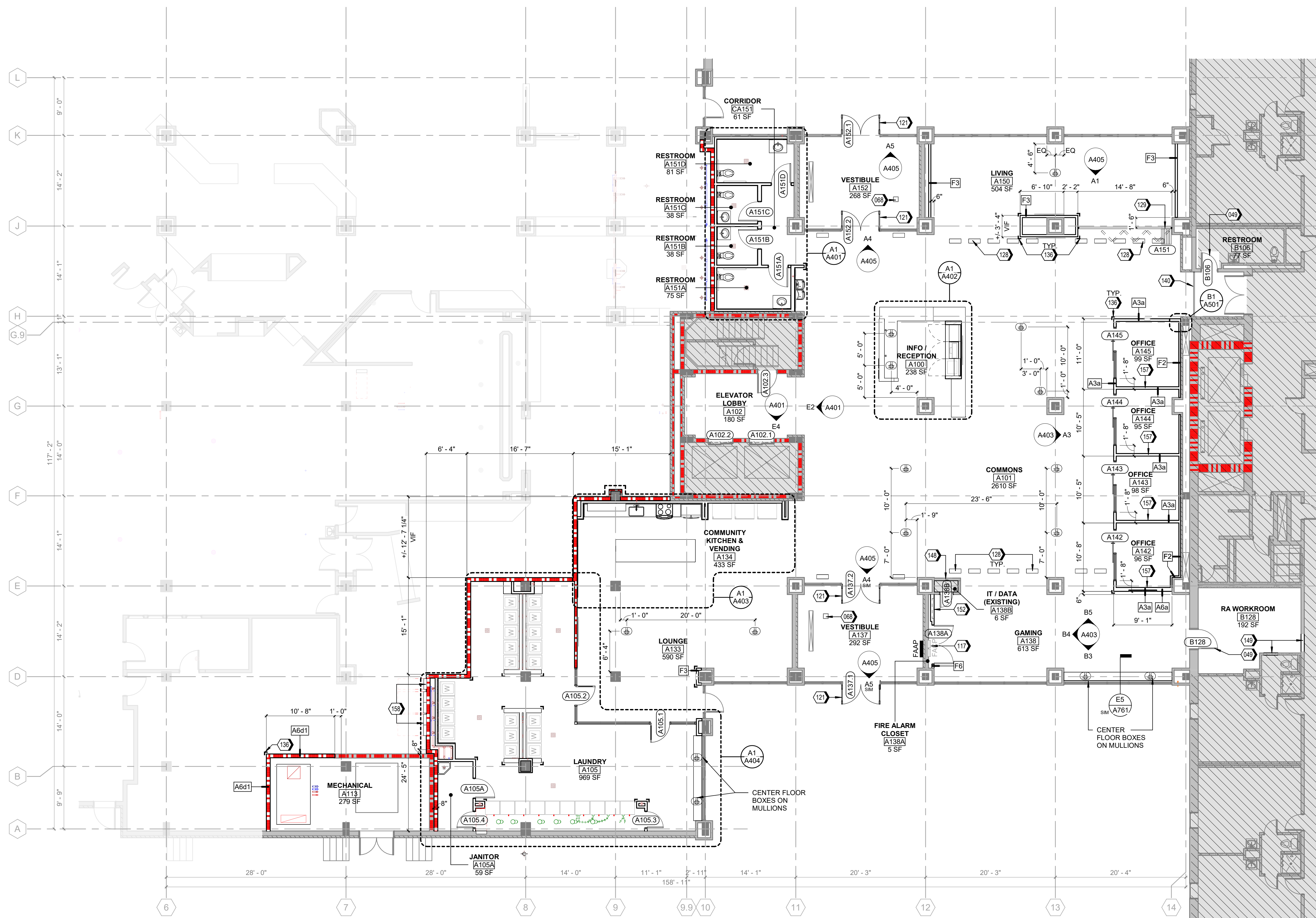


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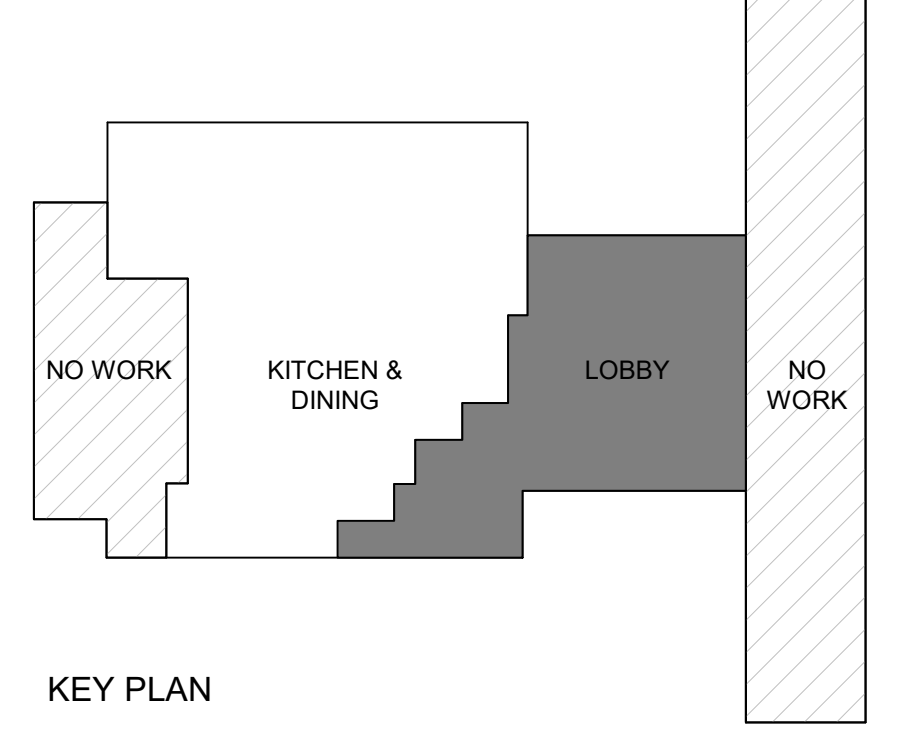
FLOOR PLAN (LOBBY, RESTROOMS, & LAUNDRY)

A1

- FLOOR PLAN GENERAL NOTES**
- ALL DIMENSIONS ARE TO GRID LINE, FACE OF CONCRETE OR MASONRY, OR FACE OF WALL OR COLUMN, UNLESS OTHERWISE NOTED.
  - ALL ANGLES SHOWN ON THE FLOOR PLANS ARE 90 DEGREES UNLESS OTHERWISE NOTED.
  - FURNITURE IS SHOWN FOR REFERENCE ONLY. REFER TO FURNITURE PLANS FOR COMPLETE SCOPE OF WORK.
  - IN ROOMS WITH FLOOR DRAINS, SLOPE CONCRETE SURFACE WITHIN 18" RADIUS AT 1/4" PER FOOT TOWARD FLOOR DRAIN, UNLESS OTHERWISE INDICATED.
  - COORDINATE ALL FLOOR CORE DRILLING WITH EXISTING STRUCTURE.
  - PATCH AND LEVEL FLOOR SUBSTRATES TO RECEIVE NEW WORK AS SCHEDULED.
  - PATCH AND REPAIR CEILING AS REQUIRED FOR NEW LAYOUT. CONTRACTOR TO REPAIR ALL CEILINGS TO MATCH EXISTING WHERE PARTITIONS HAVE BEEN DEMOLISHED AND EXISTING CEILING IS TO REMAIN.
  - PATCH WALLS AT REMOVED RECEPTACLE OPENINGS SO AS TO RECEIVE SUBSEQUENT WORK.
  - PATCH EXISTING FIRE-RATED WALLS, FLOORS, CEILINGS, ETC. SO AS TO MAINTAIN THE FIRE-RATING. ADD FIRE-SMOKE DAMPERS WHERE NEW DUCTS CROSS. ADD FIRE STOP AT ALL PENETRATIONS.
  - PATCH EXISTING CONSTRUCTION SCHEDULED TO REMAIN. REPAIRED SURFACES TO BE FLUSH WITH ADJACENT FINISH SURFACES. PATCH, SAND, AND TEXTURE EXISTING SURFACES TO SAME QUALITY AS NEW CONSTRUCTION PRIOR TO INSTALLING NEW FINISHES. REFER TO THE FINISH MANUFACTURER'S GUIDELINES FOR INSTALLATION.
  - REFER TO G003 FOR TYPICAL MOUNTING HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES. TOILET PAPER DISPENSERS, PAPER TOWEL DISPENSERS, AND SOAP DISPENSERS ARE O.F.O.I.
  - EXISTING GRID LINES AND GRID DIMENSIONS ARE FOR REFERENCE ONLY.

- KEYNOTES**
- |     |   |
|-----|---|
| 049 | EXISTING DOOR & FRAME TO REMAIN; REFER TO DOOR SCHEDULE FOR EXTENT OF SCOPE IN THIS AREA  |
| 068 | EXISTING PEDESTAL HOUSING AUTO PUSH-BUTTON DOOR OPENER AND CARD READER, TO REMAIN; REFER TO SECURITY DRAWINGS AND DOOR SCHEDULE FOR ADDITIONAL SCOPE IN THIS AREA |
| 117 | CONSTRUCT NEW CLOSET TO HOUSE EXISTING FIRE ALARM CONTROL DEVICES   |
| 121 | ALTERNATE #2: PROVIDE NEW EXTERIOR STOREFRONT DOORS WITHIN EXISTING STOREFRONT SYSTEM AS SCHEDULED; VERIFY IN FIELD   |
| 128 | PROVIDE NEW BLACK FLOOR RETURN REGISTERS, TYPICAL   |
| 129 | ALTERNATE #1: FLOOR-SUPPORTED, MANUAL, MULTIPANEL FOLDING ALUMINUM FRAMED GLASS DOOR; REFER TO DOOR SCHEDULE AND DETAILS ON A602A FOR ADDITIONAL INFORMATION      |
| 136 | STAINLESS STEEL CORNER GUARD  |
| 140 | INSTALL NEW FLOOR EXPANSION JOINT COVER AS SPECIFIED  |
| 148 | FULLY RECESSED AUTOMATED EXTERNAL DEFIBRILLATOR CABINET   |
| 149 | INFILL WALL AT FORMER DOOR OPENING; MATCH EXISTING WALL THICKNESS AND TYPE. PAINT NEW WALL AS SCHEDULED.  |
| 152 | RECESSED POCKET FOR "WEB CLOCK" MONITOR SYSTEM (FOI); PROVIDE POWER AND DATA IN THIS LOCATION   |
| 157 | PROVIDE CONTINUOUS BLOCKING BETWEEN STUDS TO ACCOMMODATE INSTALLATION OF WALL-HUNG CABINETS; REFER TO FURNITURE PLAN  |
| 158 | NEW ELECTRICAL PANELS; REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION   |

- FLOOR PLAN LEGEND**
- AREAS NOT IN SCOPE
  - EXISTING WALL TO REMAIN; PROTECT IN PLACE
  - EXISTING FIRE-RATED WALL TO REMAIN
  - EXISTING DOOR, FRAME AND ASSOCIATED HARDWARE TO REMAIN; PROTECT IN PLACE
  - NEW DOOR, FRAME AND ASSOCIATED HARDWARE
  - NEW WALL CONSTRUCTION
  - 1-HR FIRE BARRIER
  - 2-HR FIRE BARRIER
  - FLOOR DRAIN; REFER TO PLUMBING
  - FLOOR BOX; ALL FLOOR BOXES ARE DIMENSIONALLY LOCATED TO THE CENTERLINE OF FLOOR BOX ON ARCHITECTURAL DRAWINGS. REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION.



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**Date:** FEBRUARY 6, 2024

REVISIONS		
NO	DESCRIPTION	DATE

**A101A**

FLOOR PLAN (LOBBY, RESTROOMS, & LAUNDRY)

TreanorHL NO. HE0569 2302.01

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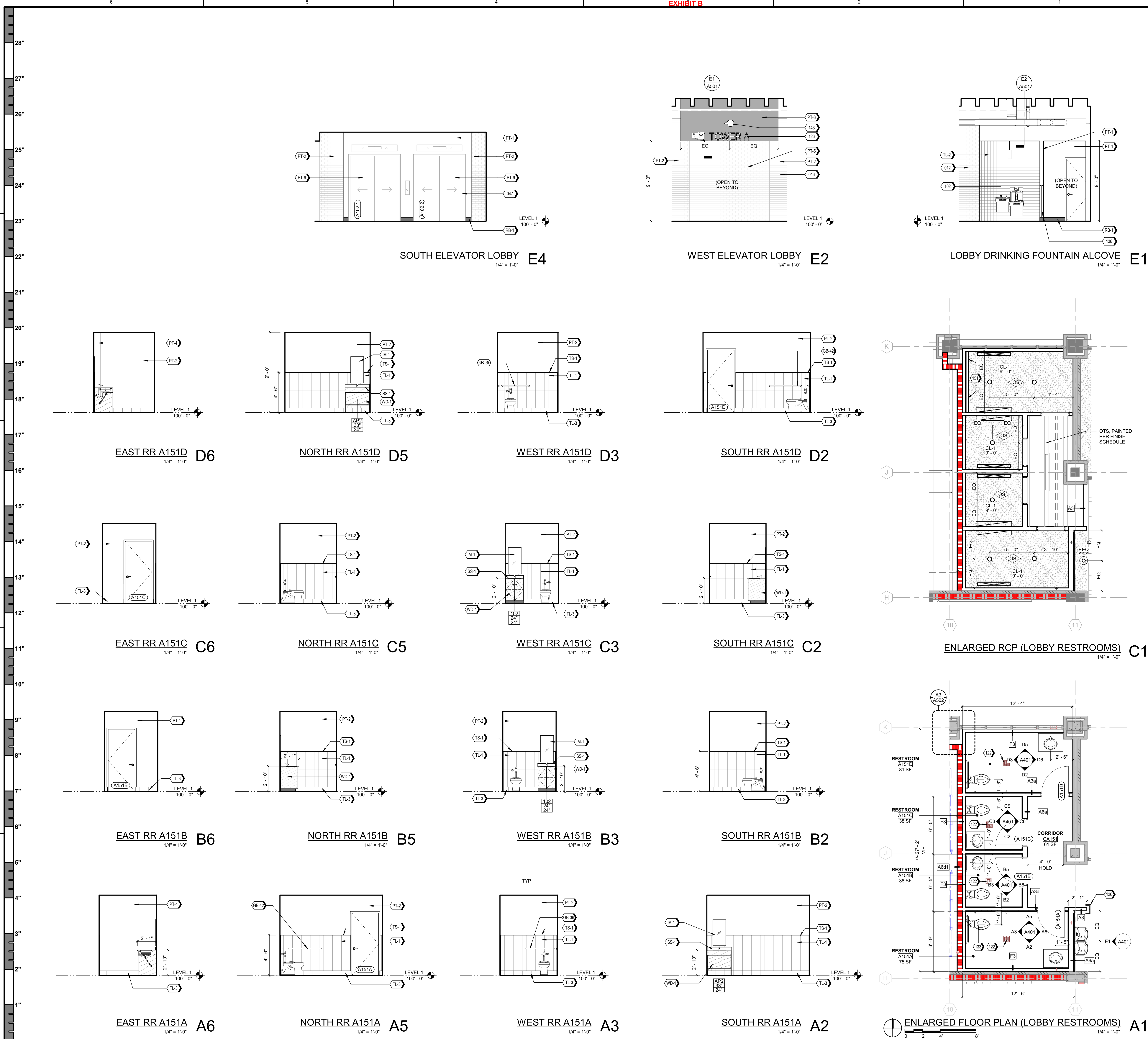
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### FLOOR PLAN GENERAL NOTES

- ALL DIMENSIONS ARE TO GRID LINE, FACE OF CONCRETE OR MASONRY, OR FACE OF WALL OR COLUMN, UNLESS OTHERWISE NOTED.
- ALL ANGLES SHOWN ON THE FLOOR PLANS ARE 90 DEGREES UNLESS OTHERWISE NOTED.
- FURNITURE IS SHOWN FOR REFERENCE ONLY. REFER TO FURNITURE PLANS FOR COMPLETE SCOPE OF WORK.
- IN ROOMS WITH FLOOR DRAINS, SLOPE CONCRETE SURFACE WITHIN 18" RADIUS AT 1/4" PER FOOT TOWARD FLOOR DRAIN, UNLESS OTHERWISE INDICATED.
- COORDINATE ALL FLOOR CORE DRILLING WITH EXISTING STRUCTURE.
- PATCH AND LEVEL FLOOR SUBSTRATES TO RECEIVE NEW WORK AS SCHEDULED.
- PATCH AND REPAIR CEILING AS REQUIRED FOR NEW LAYOUT. CONTRACTOR TO REPAIR ALL CEILINGS TO MATCH EXISTING WHERE PARTITIONS HAVE BEEN DEMOLISHED AND EXISTING CEILING IS TO REMAIN.
- PATCH WALLS AT REMOVED RECEPTACLE OPENINGS SO AS TO RECEIVE SUBSEQUENT WORK.
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- REFER TO G003 FOR TYPICAL MOUNTING HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES. TOILET PAPER DISPENSERS, PAPER TOWEL DISPENSERS, AND SOAP DISPENSERS ARE O.F.O.I.
- EXISTING GRID LINES AND GRID DIMENSIONS ARE FOR REFERENCE ONLY.

### KEYNOTES

012	EXISTING STAIR AND ELEVATOR ENCLOSURE TO REMAIN
046	EXISTING BRICK TO REMAIN
047	EXISTING ELEVATOR DOORS AND FRAMES TO REMAIN; REMOVE EXISTING HORIZONTAL WOOD TRIM AND WALL BASE AND PREP TO REFINISH EXISTING WALL, ELEVATOR DOOR, AND ELEVATOR DOOR FRAME. EXISTING ELEVATOR CALL BUTTONS AND SIGNAL TO REMAIN.
102	MILLOW DRINKING FOUNTAIN WITH INTEGRAL BOTTLE FILLER; REFER TO PLUMBING
122	FLOOR DRAIN, TYPICAL; REFER TO PLUMBING
126	UNIT ALUMINUM SIGNAGE WITH CONCEALED POST MOUNTING; BRUSHED CLEAR ANODIZED FINISH ON FACE AND RETURNS
133	NEW FLOOR MOUNTED WATER CLOSET
136	STAINLESS STEEL CORNER GUARD
143	EXPOSED DUCTWORK; REFER TO MECHANICAL
151	RECESSED COVE LIGHT FIXTURE; REFER TO ELECTRICAL
GB-36	STAINLESS STEEL GRAB BAR, 36"
GB-42	STAINLESS STEEL GRAB BAR, 42"
M-1	18"x36" STAINLESS STEEL CHANNEL FRAME MIRROR
PT-1	PAINT COLOR 1 (SNOWBOUND - EGGSHELL); REFER TO A700A FOR ADDITIONAL INFORMATION
PT-2	PAINT COLOR 2 (SNOWBOUND - SEMI-GLOSS); REFER TO A700A FOR ADDITIONAL INFORMATION
PT-3	PAINT COLOR 3 (PEPPERCORN - EGGSHELL); REFER TO A700A FOR ADDITIONAL INFORMATION
PT-4	PAINT COLOR 4 (CAVIER - EGGSHELL); REFER TO A700A FOR ADDITIONAL INFORMATION
PT-5	PAINT COLOR 5 (DERBYSHIRE - EGGSHELL); REFER TO A700A FOR ADDITIONAL INFORMATION
PT-9	PAINT COLOR 9 (MATCH PT-3); REFER TO A700A FOR ADDITIONAL INFORMATION
RB-1	4" RUBBER BASE, TYP. REFER TO A700A FOR ADDITIONAL INFORMATION
SS-1	CAMBRIA FIELDSTONE QUARTZ; REFER TO A700A FOR ADDITIONAL INFORMATION
TL-1	ALTERNATE #4 DALTILE VOLUME 1.0 WALL TILE, 6" x 24"; REFER TO A700A FOR ADDITIONAL INFORMATION
TL-2	DESIGN DIRECT SOURCE SANTOS WALL TILE, 4" x 4"; REFER TO A700A FOR ADDITIONAL INFORMATION
TL-3	DALTILE VOLUME 1.0 FLOOR TILE, 12" x 24"; REFER TO A700A FOR ADDITIONAL INFORMATION
TS-1	SCHLUTER JOLLY EDGE TRIM; REFER TO A700A FOR ADDITIONAL INFORMATION
WD-1	RIFT CUT WHITE OAK; REFER TO A700A FOR ADDITIONAL INFORMATION

### RCP LEGEND

- 2X2 ACOUSTICAL PANEL CEILING
- DECORATIVE SUSPENDED WOOD CEILING
- GYPSUM CEILING ON METAL STUDS
- RECESSED LINEAR LED LIGHT
- LINEAR DIRECT / INDIRECT LED PENDANT LIGHT
- DECORATIVE PENDANT LIGHT
- RECESSED CAN LIGHT
- CYLINDER PENDANT LIGHT
- 2X2 RECESSED TROFFER LIGHT
- SUPPLY DIFFUSER (EITHER 2X2 OR 1X1)
- RETURN GRILLE (EITHER 2X2 OR 1X1)
- LINEAR SUPPLY / RETURN; REFER TO MECHANICAL
- CEILING ACCESS PANEL; REFER TO C2/A500
- INDUSTRIAL STRIP LIGHT
- RECESSED ROLLER SHADE RS-1; REFER TO B5/A501 AND A700A
- VACANCY SENSOR; REFER TO ELECTRICAL
- OCCUPANCY SENSOR; REFER TO ELECTRICAL

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STATE OF TEXAS  
21727  
a. 25.24

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**A401**

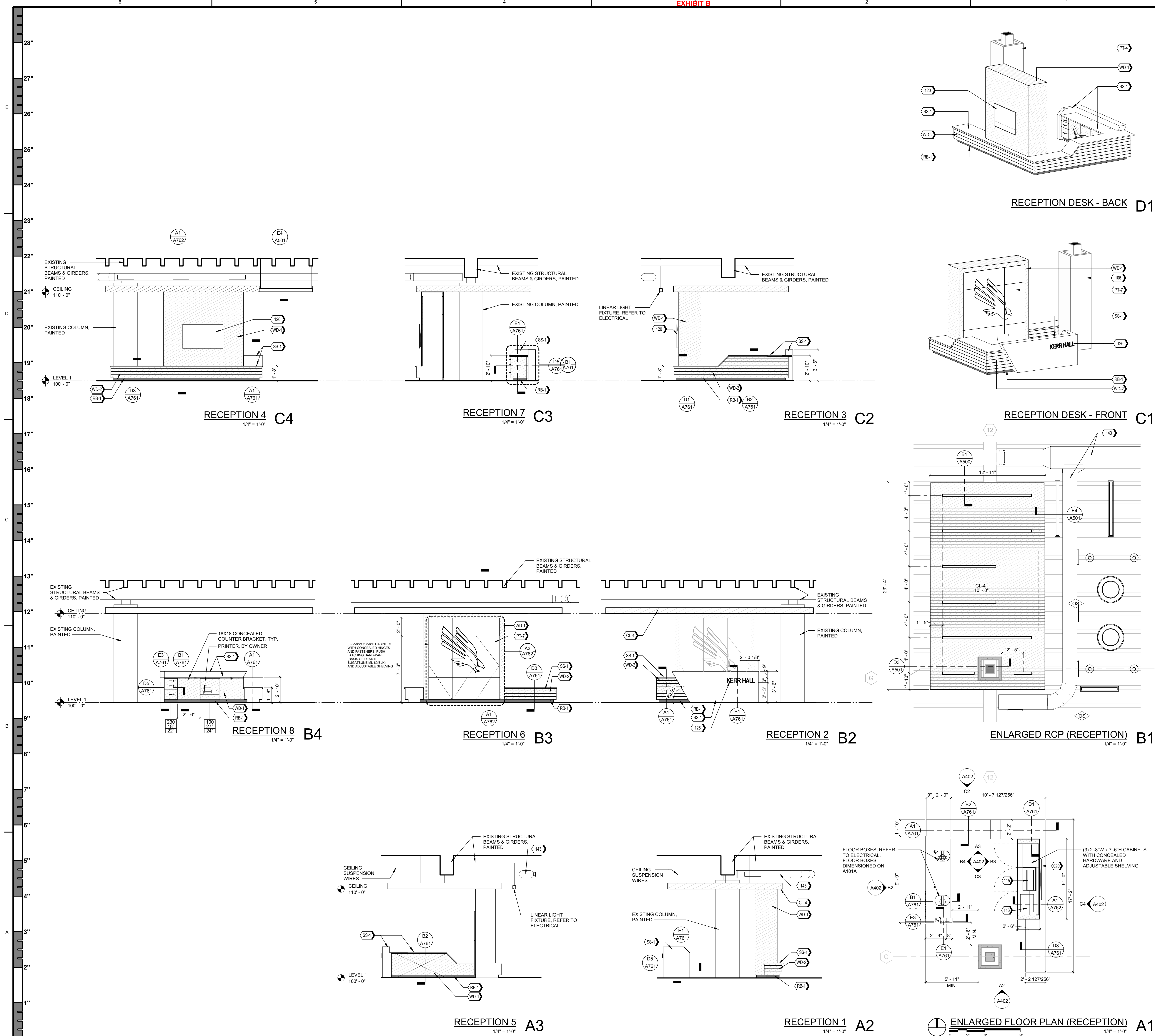
ENLARGED PLANS, RCPs, & ELEVATIONS

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## FLOOR PLAN GENERAL NOTES

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- PATCH AND LEVEL FLOOR SUBSTRATES TO RECEIVE NEW WORK AS SCHEDULED.
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- EXISTING GRID LINES AND GRID DIMENSIONS ARE FOR REFERENCE ONLY.

## KEYNOTES

020	ALTERNATE #2: REMOVE EXISTING FRP STOREFRONT DOORS. EXISTING STOREFRONT SYSTEM TO REMAIN.
106	EXISTING COLUMN, PAINTED
115	SMALL KEY LOCK BOX, TO BE RELOCATED BY OWNER; PROVIDE POWER AND DATA
116	LARGE KEY LOCK BOX, TO BE RELOCATED BY OWNER
120	WALL MOUNTED DISPLAY MONITOR (OFOI); REFER TO AV DRAWINGS
126	UNIT ALUMINUM SIGNAGE WITH CONCEALED POST MOUNTING; BRUSHED CLEAR ANODIZED FINISH ON FACE AND RETURNS
143	EXPOSED DUCTWORK; REFER TO MECHANICAL
CL-4	DECORATIVE WOOD CEILING; REFER TO A700A FOR ADDITIONAL INFORMATION
PT-4	PAINT COLOR 4 (CAVIAR - EGGSHELL); REFER TO A700A FOR ADDITIONAL INFORMATION
PT-7	PAINT COLOR 7 (MATCH RGB 0.123,60); REFER TO A700A FOR ADDITIONAL INFORMATION
RB-1	4" RUBBER BASE, TYP. REFER TO A700A FOR ADDITIONAL INFORMATION
SS-1	CAMBRIA FELDSTONE QUARTZ; REFER TO A700A FOR ADDITIONAL INFORMATION
WD-1	RIFT CUT WHITE OAK; REFER TO A700A FOR ADDITIONAL INFORMATION
WD-2	RIFT CUT WHITE OAK (4" PLANK); REFER TO A700A FOR ADDITIONAL INFORMATION

## RCP LEGEND

- 2X2 ACOUSTICAL PANEL CEILING
- DECORATIVE SUSPENDED WOOD CEILING
- GYPSUM CEILING ON METAL STUDS
- RECESSED LINEAR LED LIGHT
- LINEAR DIRECT / INDIRECT LED PENDANT LIGHT
- DECORATIVE PENDANT LIGHT
- RECESSED CAN LIGHT
- CYLINDER PENDANT LIGHT
- 2X2 RECESSED TROFFER LIGHT
- SUPPLY DIFFUSER (EITHER 2X2 OR 1X1)
- RETURN GRILLE (EITHER 2X2 OR 1X1)
- LINEAR SUPPLY / RETURN; REFER TO MECHANICAL
- CEILING ACCESS PANEL; REFER TO C2/A500
- INDUSTRIAL STRIP LIGHT
- RECESSED ROLLER SHADE RS-1; REFER TO B5/A501 AND A700A
- VACANCY SENSOR; REFER TO ELECTRICAL
- OCCUPANCY SENSOR; REFER TO ELECTRICAL

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# UNIVERSITY OF NORTH TEXAS KERR HALL INTERIOR RENOVATION

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NO	DESCRIPTION	DATE

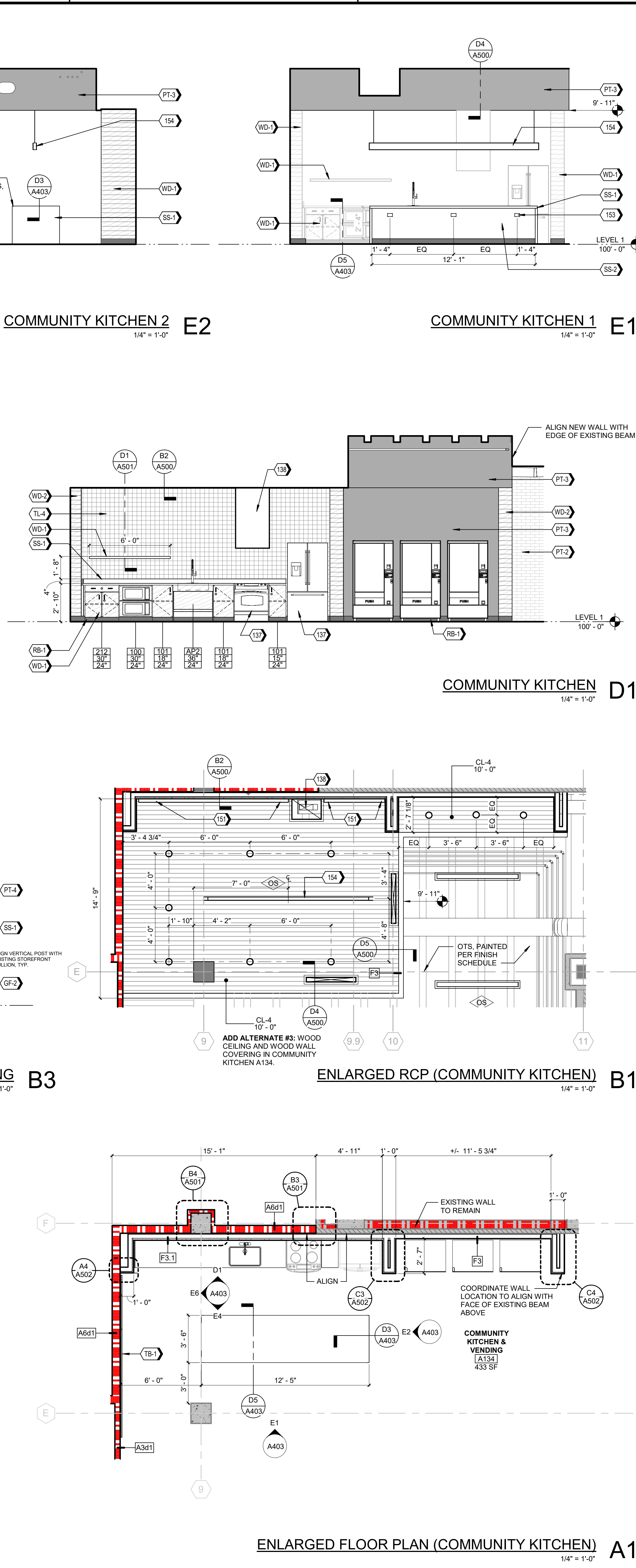
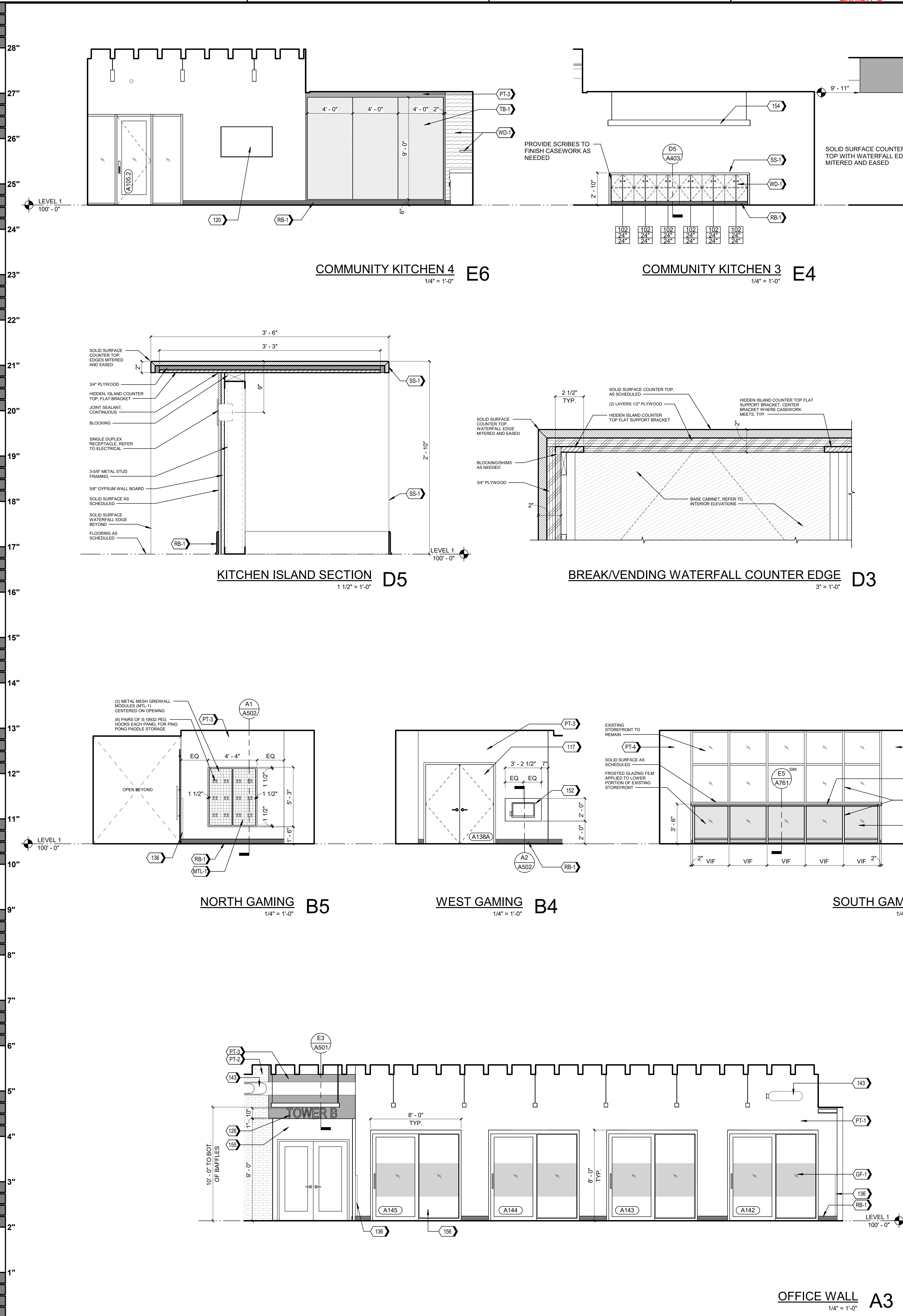
**A402**

ENLARGED PLANS,  
RCPs, & ELEVATIONS



Autodesk Docs\\HE0569\\2302.dwg UNT Kerr Hall Interior Renovation\\RCP\_KERR-HALL-LOBBY\_ARCH.rvt

2/25/2024 9:59:48 AM



## FLOOR PLAN GENERAL NOTES

- ALL DIMENSIONS ARE TO GRID LINE, FACE OF CONCRETE OR MASONRY, OR FACE OF WALL OR COLUMN, UNLESS OTHERWISE NOTED.
- ALL ANGLES SHOWN ON THE FLOOR PLANS ARE 90 DEGREES UNLESS OTHERWISE NOTED.
- FURNITURE IS SHOWN FOR REFERENCE ONLY; REFER TO FURNITURE PLANS FOR COMPLETE SCOPE OF WORK.
- IN ROOMS WITH FLOOR DRAINS, SLOPE CONCRETE SURFACE WITHIN 18" RADIUS AT 1/4" PER FOOT TOWARD FLOOR DRAIN, UNLESS OTHERWISE INDICATED.
- COORDINATE ALL FLOOR CORE DRILLING WITH EXISTING STRUCTURE.
- PATCH AND LEVEL FLOOR SUBSTRATES TO RECEIVE NEW WORK AS SCHEDULED.
- PATCH AND REPAIR CEILING AS REQUIRED FOR NEW LAYOUT. CONTRACTOR TO REPAIR ALL CEILINGS TO MATCH EXISTING WHERE PARTITIONS HAVE BEEN DEMOLISHED AND EXISTING CEILING IS TO REMAIN.
- PATCH WALLS AT REMOVED RECEPTACLE OPENINGS SO AS TO RECEIVE SUBSEQUENT WORK.
- PATCH EXISTING FIRE-RATED WALLS, FLOORS, CEILINGS, ETC. SO AS TO MAINTAIN THE FIRE-RATING. ADD FIRE-SMOKE DAMPERS WHERE NEW DUCTS CROSS. ADD FIRE STOP AT ALL PENETRATIONS.
- PATCH EXISTING CONSTRUCTION SCHEDULED TO REMAIN. REPAIRED SURFACES TO BE FLUSH WITH ADJACENT FINISH SURFACES. PATCH, SAND, AND TEXTURE EXISTING SURFACES TO SAME QUALITY AS NEW CONSTRUCTION PRIOR TO INSTALLING NEW FINISHES. REFER TO THE FINISH MANUFACTURERS GUIDELINES FOR INSTALLATION.
- REFER TO G003 FOR TYPICAL MOUNTING HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES. TOILET PAPER DISPENSERS, PAPER TOWEL DISPENSERS, AND SOAP DISPENSERS ARE O.F.O.I.
- EXISTING GRID LINES AND GRID DIMENSIONS ARE FOR REFERENCE ONLY.

## KEYNOTES

- |       |   |
|-------|---|
| 117   | CONSTRUCT NEW CLOSET TO HOUSE EXISTING FIRE ALARM CONTROL DEVICES   |
| 120   | WALL MOUNTED DISPLAY MONITOR (OF0I); REFER TO AV DRAWINGS   |
| 126   | UNILIT ALUMINUM SIGNAGE WITH CONCEALED POST MOUNTING; BRUSHED CLEAR ANODIZED FINISH ON FACE AND RETURNS                           |
| 136   | STAINLESS STEEL CORNER GUARD  |
| 137   | APPLIANCES, O.F.O.  |
| 138   | RANGE HOOD, REFER TO MECHANICAL   |
| 143   | EXPOSED DUCTWORK; REFER TO MECHANICAL   |
| 151   | RECESSED COVE LIGHT FIXTURE; REFER TO ELECTRICAL  |
| 152   | RECESSED POCKET FOR "WEB CLOCK" MONITOR SYSTEM (OF0I); PROVIDE POWER AND DATA IN THIS LOCATION                                    |
| 153   | DUPLEX OUTLET; REFER TO ELECTRICAL  |
| 154   | DECORATIVE PENDANT LIGHT FIXTURE (G); REFER TO LIGHTING FIXTURE SCHEDULE  |
| 155   | INFILL WALL AS NEEDED ABOVE EXISTING DOOR. EXISTING DOOR IS TO REMAIN AND IS NOT IN SCOPE. PATCH AND PAINT WALL AROUND DOOR PT-1. |
| 156   | SLIDING GLASS OFFICE DOOR WITH SINGLE SIDELITE AS SCHEDULED, TYP.   |
| GF-1  | OPAQUE BLACK WINDOW FILM; REFER TO A700A FOR ADDITIONAL INFORMATION   |
| GF-2  | OPAQUE BLACK WINDOW FILM; REFER TO A700A FOR ADDITIONAL INFORMATION   |
| MTL-1 | 1/4" THICK WIRE GRID WALL PANELS; REFER TO A700A FOR ADDITIONAL INFORMATION   |
| PT-1  | PAINT COLOR 1 (SNOWBOUND - EGGSHELL); REFER TO A700A FOR ADDITIONAL INFORMATION   |
| PT-2  | PAINT COLOR 2 (SNOWBOUND - SEMI-GLOSS); REFER TO A700A FOR ADDITIONAL INFORMATION   |
| PT-3  | PAINT COLOR 3 (PEPPERCORN - EGGSHELL); REFER TO A700A FOR ADDITIONAL INFORMATION  |
| PT-4  | PAINT COLOR 4 (CAVIAR - EGGSHELL); REFER TO A700A FOR ADDITIONAL INFORMATION  |
| RB-1  | 4" RUBBER BASE, TYP. REFER TO A700A FOR ADDITIONAL INFORMATION  |
| SS-1  | CAMBRIA FIELDSTONE QUARTZ; REFER TO A700A FOR ADDITIONAL INFORMATION  |
| SS-2  | STRATUS QUARTZ SOLID SURFACE COUNTERTOP; REFER TO A700A FOR ADDITIONAL INFORMATION  |
| TB-1  | TACKBOARD WALL PANELS; REFER TO A700A FOR ADDITIONAL INFORMATION  |
| TL-4  | DIRECT DESIGN SOURCE SANTOS TILE, 4" x 4"; REFER TO A700A FOR ADDITIONAL INFORMATION  |
| WD-1  | RIFT CUT WHITE OAK (4" PLANK); REFER TO A700A FOR ADDITIONAL INFORMATION  |
| WD-2  | RIFT CUT WHITE OAK (4" PLANK); REFER TO A700A FOR ADDITIONAL INFORMATION  |

## RCP LEGEND

- |  |  |
|--|--|
|  | 2X2 ACOUSTICAL PANEL CEILING                           |
|  | DECORATIVE SUSPENDED WOOD CEILING                      |
|  | GYPSUM CEILING ON METAL STUDS                          |
|  | RECESSED LINEAR LED LIGHT                              |
|  | LINEAR DIRECT / INDIRECT LED PENDANT LIGHT             |
|  | DECORATIVE PENDANT LIGHT                               |
|  | RECESSED CAN LIGHT                                     |
|  | CYLINDER PENDANT LIGHT                                 |
|  | 2X2 RECESSED TROFFER LIGHT                             |
|  | SUPPLY DIFFUSER (EITHER 2X2 OR 1X1)                    |
|  | RETURN GRILLE (EITHER 2X2 OR 1X1)                      |
|  | LINEAR SUPPLY / RETURN; REFER TO MECHANICAL            |
|  | CEILING ACCESS PANEL; REFER TO C2/A500                 |
|  | INDUSTRIAL STRIP LIGHT                                 |
|  | RECESSED ROLLER SHADE RS-1; REFER TO BS/A501 AND A700A |
|  | VACANCY SENSOR; REFER TO ELECTRICAL                    |
|  | OCCUPANCY SENSOR; REFER TO ELECTRICAL                  |

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## KEYNOTES

- |       |   |
|-------|---|
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| 120   | WALL MOUNTED DISPLAY MONITOR (OF0I); REFER TO AV DRAWINGS   |
| 126   | UNILIT ALUMINUM SIGNAGE WITH CONCEALED POST MOUNTING; BRUSHED CLEAR ANODIZED FINISH ON FACE AND RETURNS                           |
| 136   | STAINLESS STEEL CORNER GUARD  |
| 137   | APPLIANCES, O.F.O.  |
| 138   | RANGE HOOD, REFER TO MECHANICAL   |
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| PT-1  | PAINT COLOR 1 (SNOWBOUND - EGGSHELL); REFER TO A700A FOR ADDITIONAL INFORMATION   |
| PT-2  | PAINT COLOR 2 (SNOWBOUND - SEMI-GLOSS); REFER TO A700A FOR ADDITIONAL INFORMATION   |
| PT-3  | PAINT COLOR 3 (PEPPERCORN - EGGSHELL); REFER TO A700A FOR ADDITIONAL INFORMATION  |
| PT-4  | PAINT COLOR 4 (CAVIAR - EGGSHELL); REFER TO A700A FOR ADDITIONAL INFORMATION  |
| RB-1  | 4" RUBBER BASE, TYP. REFER TO A700A FOR ADDITIONAL INFORMATION  |
| SS-1  | CAMBRIA FIELDSTONE QUARTZ; REFER TO A700A FOR ADDITIONAL INFORMATION  |
| SS-2  | STRATUS QUARTZ SOLID SURFACE COUNTERTOP; REFER TO A700A FOR ADDITIONAL INFORMATION  |
| TB-1  | TACKBOARD WALL PANELS; REFER TO A700A FOR ADDITIONAL INFORMATION  |
| TL-4  | DIRECT DESIGN SOURCE SANTOS TILE, 4" x 4"; REFER TO A700A FOR ADDITIONAL INFORMATION  |
| WD-1  | RIFT CUT WHITE OAK (4" PLANK); REFER TO A700A FOR ADDITIONAL INFORMATION  |
| WD-2  | RIFT CUT WHITE OAK (4" PLANK); REFER TO A700A FOR ADDITIONAL INFORMATION  |

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KERR HALL INTERIOR RENOVATION



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Issue: 100% ISSUE FOR CONSTRUCTION  
Date: FEBRUARY 6, 2024

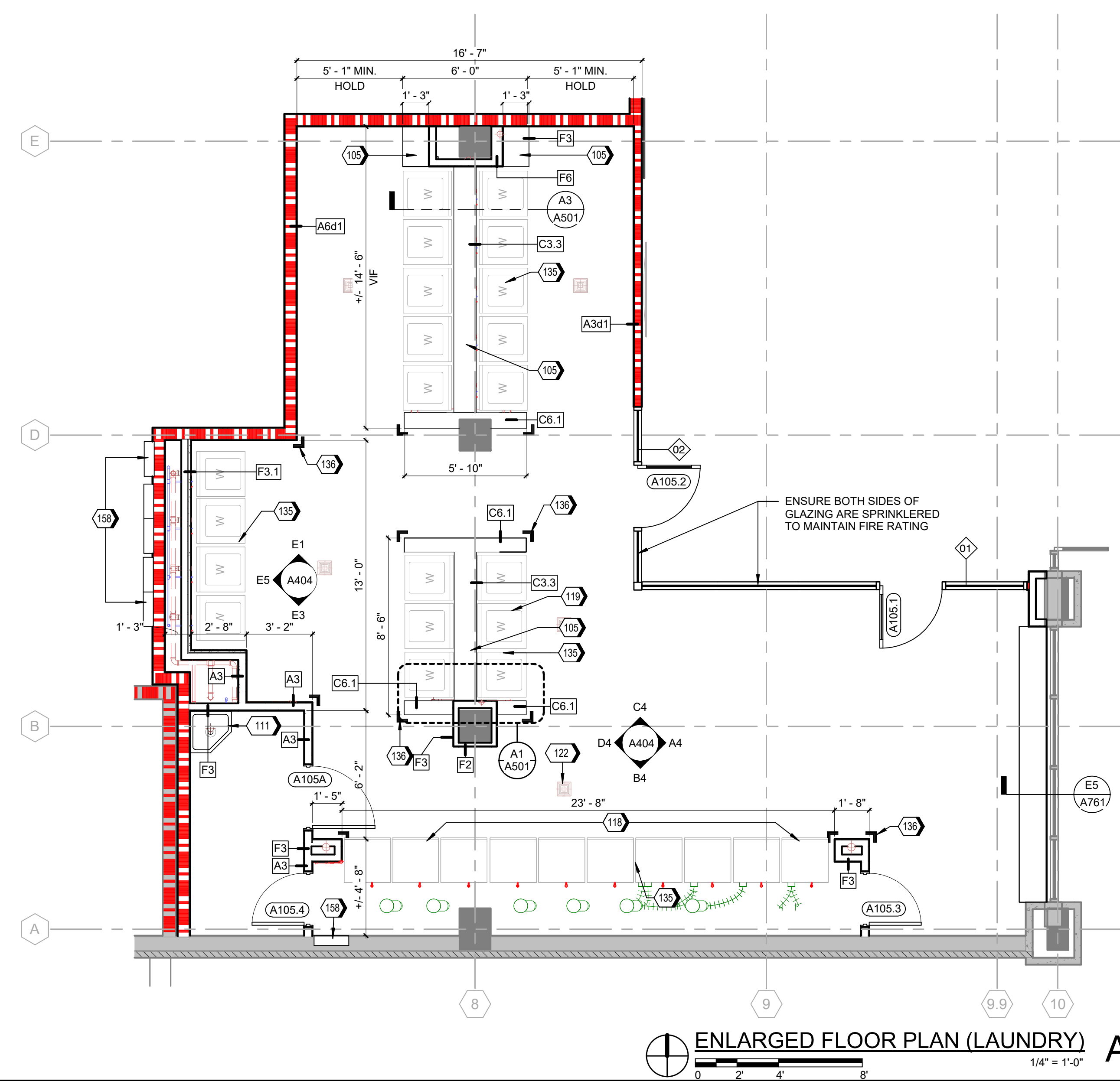
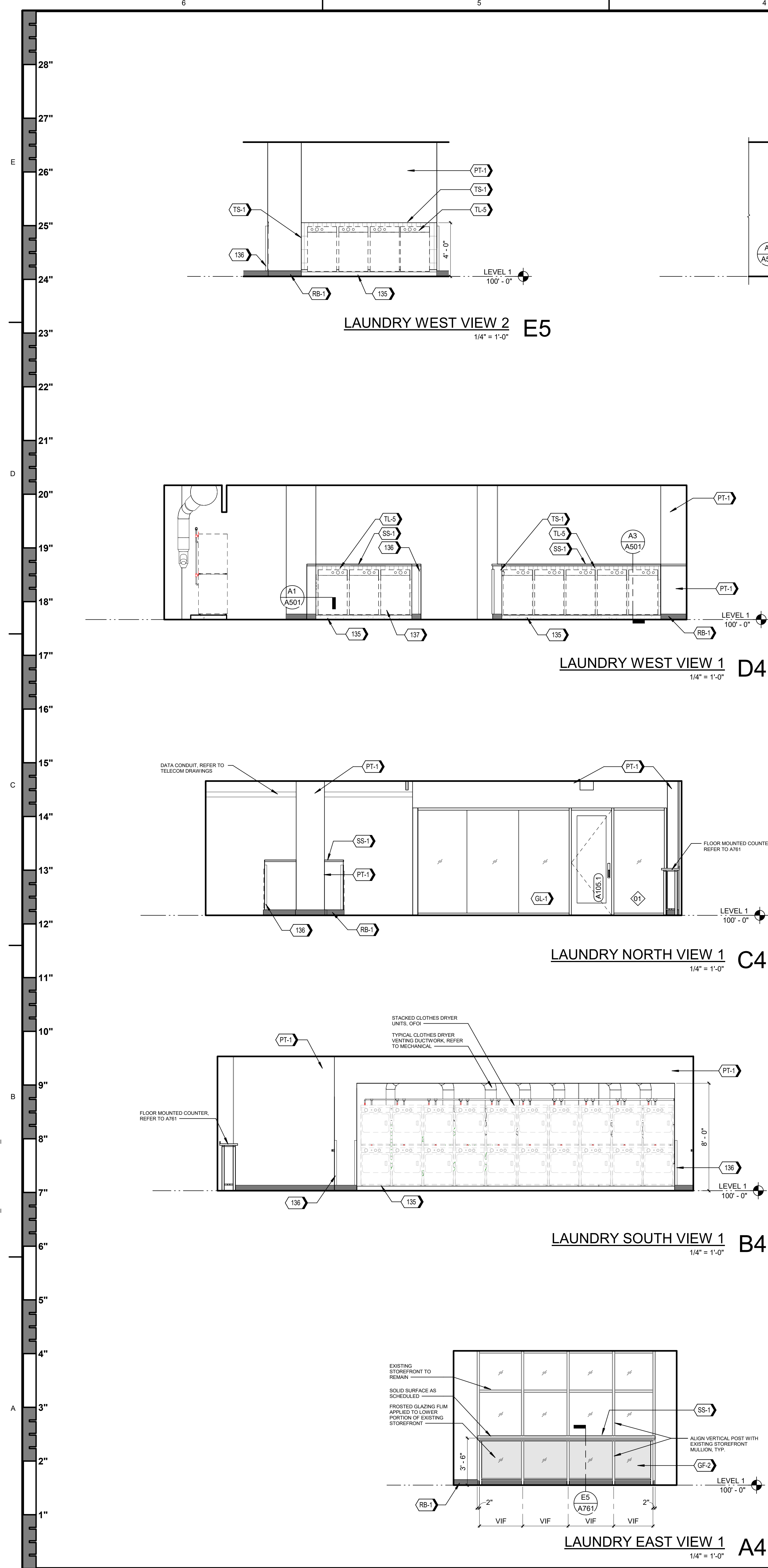
REVISIONS		
NO	DESCRIPTION	DATE

A403  
ENLARGED PLANS,  
RCPs, & ELEVATIONS

TreanorHL NO. HE0569.2302.01  
15 of 80



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- ### FLOOR PLAN GENERAL NOTES
- ALL DIMENSIONS ARE TO GRID LINE, FACE OF CONCRETE OR MASONRY, OR FACE OF WALL OR COLUMN, UNLESS OTHERWISE NOTED.
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  - COORDINATE ALL FLOOR CORE DRILLING WITH EXISTING STRUCTURE.
  - PATCH AND LEVEL FLOOR SUBSTRATES TO RECEIVE NEW WORK AS SCHEDULED.
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  - EXISTING GRID LINES AND GRID DIMENSIONS ARE FOR REFERENCE ONLY.

### KEYNOTES

105	COUNTER TOP
111	MOP SINK, REFER TO PLUMBING
118	DOUBLE STACKED DRYERS (OFOI), DIRECT VENTED TO EXTERIOR OF BUILDING; REFER TO ELECTRICAL AND MECHANICAL
119	CLOTHES WASHING MACHINES (OFOI); REFER TO PLUMBING AND ELECTRICAL FOR CONNECTIONS
122	FLOOR DRAIN, TYPICAL; REFER TO PLUMBING
135	4" CONCRETE HOUSEKEEPING PAD
136	STAINLESS STEEL CORNER GUARD
137	APPLIANCES, OFOI
158	NEW ELECTRICAL PANELS; REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION
GF-2	OPAQUE BLACK WINDOW FILM; REFER TO A700A FOR ADDITIONAL INFORMATION
GL-1	INTERIOR LOW-IRON VISION GLASS (TEMPERED AS REQUIRED); REFER TO A700A FOR ADDITIONAL INFORMATION
PT-1	PAINT COLOR 1 (SNOWBOUND - EGGSHELL); REFER TO A700A FOR ADDITIONAL INFORMATION
RB-1	4" RUBBER BASE, TYP. REFER TO A700A FOR ADDITIONAL INFORMATION
SS-1	CAMBRIA FIELDSTONE QUARTZ; REFER TO A700A FOR ADDITIONAL INFORMATION
TL-5	DALTILE COLOR WHEEL LINEAR TILE; REFER TO A700A FOR ADDITIONAL INFORMATION
TS-1	SCHLUTER JOLLY EDGE TRIM; REFER TO A700A FOR ADDITIONAL INFORMATION

**TREANORHL**

2024 Elm Street, Suite 200  
Denton, TX 76205  
Office: 214.310.1018  
www.treanorhl.com

**UNIVERSITY OF NORTH TEXAS**

**KERR HALL INTERIOR RENOVATION**

1413 West Maple St  
Denton, TX 76201

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**Issue:** 100% ISSUE FOR CONSTRUCTION

**Date:** FEBRUARY 6, 2024

REVISIONS		
NO	DESCRIPTION	DATE

**A404**

LAUNDRY ENLARGED PLAN & INTERIOR ELEVATIONS

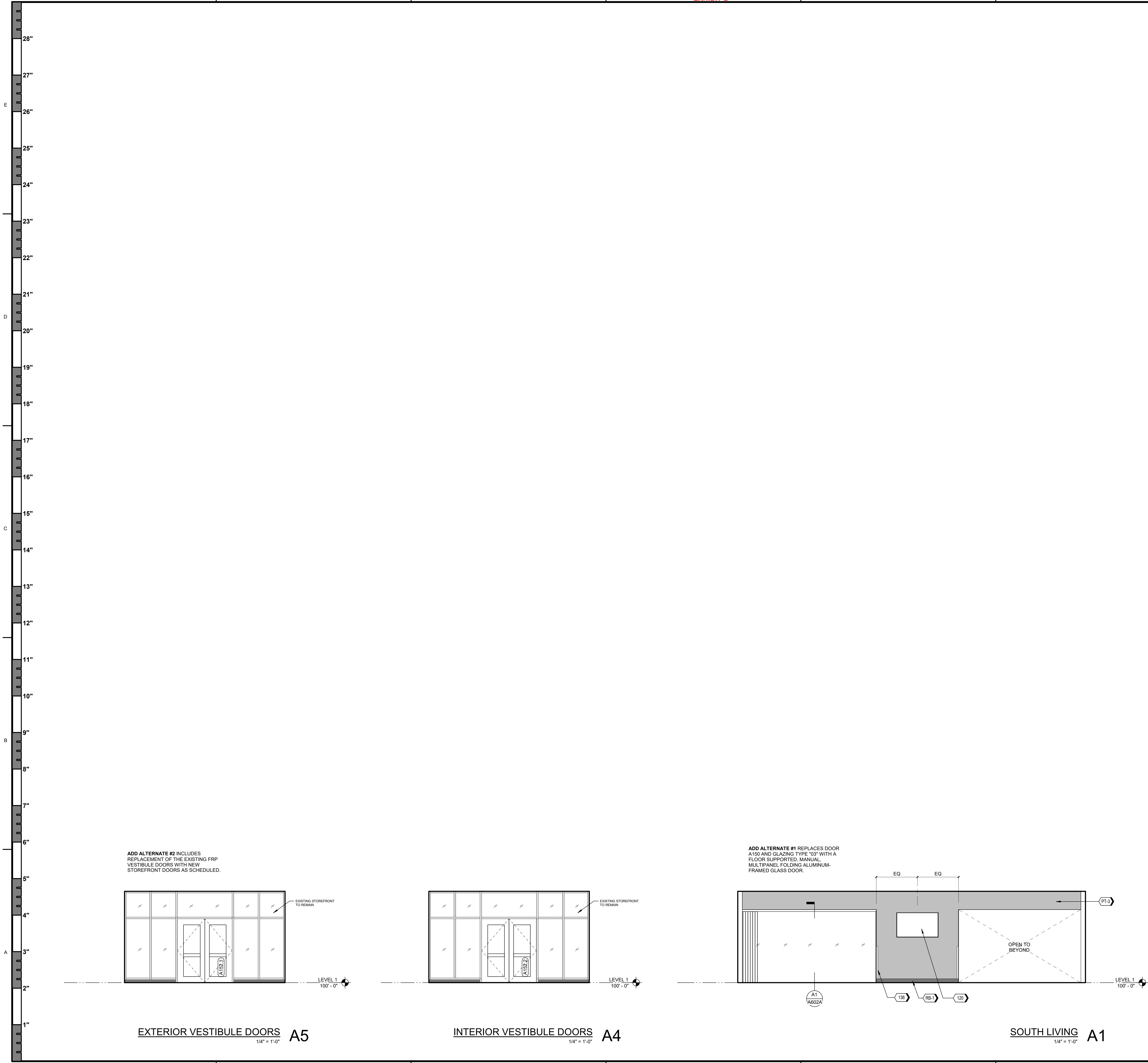
TreanorHL NO. HE0569.2302.01

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2/25/2024 10:00:00 AM



FLOOR PLAN GENERAL NOTES

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- B. ALL ANGLES SHOWN ON THE FLOOR PLANS ARE 90 DEGREES UNLESS OTHERWISE NOTED.
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- J. PATCH EXISTING CONSTRUCTION SCHEDULED TO REMAIN. REPAIRED SURFACES TO BE FLUSH WITH ADJACENT FINISH SURFACES. PATCH, SAND, AND TEXTURE EXISTING SURFACES TO SAME QUALITY AS NEW CONSTRUCTION PRIOR TO INSTALLING NEW FINISHES. REFER TO THE FINISH MANUFACTURERS GUIDELINES FOR INSTALLATION.
- K. REFER TO G003 FOR TYPICAL MOUNTING HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES. TOILET PAPER DISPENSERS, PAPER TOWEL DISPENSERS, AND SOAP DISPENSERS ARE O.F.O.I.
- L. EXISTING GRID LINES AND GRID DIMENSIONS ARE FOR REFERENCE ONLY.

KEYNOTES

120	WALL MOUNTED DISPLAY MONITOR (OFOI); REFER TO A/V DRAWINGS
136	STAINLESS STEEL CORNER GUARD
PT-3	PAINT COLOR 3 (PEPPERCORN - EGGSHELL); REFER TO A700A FOR ADDITIONAL INFORMATION
RB-1	4" RUBBER BASE, TYP. REFER TO A700A FOR ADDITIONAL INFORMATION

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Date: FEBRUARY 6, 2024

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A405  
ENLARGED PLANS & INTERIOR ELEVATIONS  
TreanorHL NO. HE0569.2302.01  
17 of 80



**Note:**

# TREANORHL

Q. 25.24

1. *Journal of the American Medical Association*, 2000; 284: 2689-2694.

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KERR HALL INTERIOR RENOVATION



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<b>Issue:</b>	100% ISSUE CONSTRUCT
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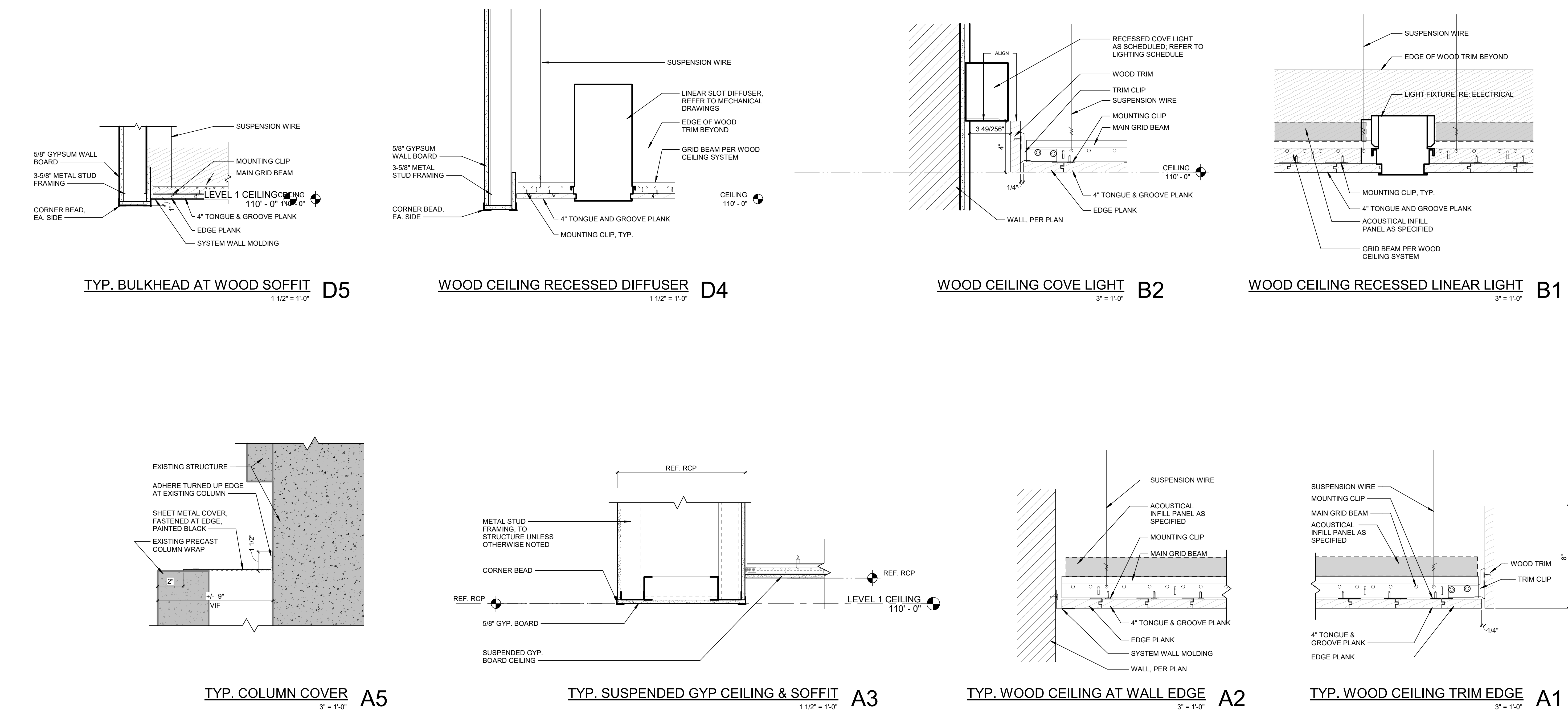
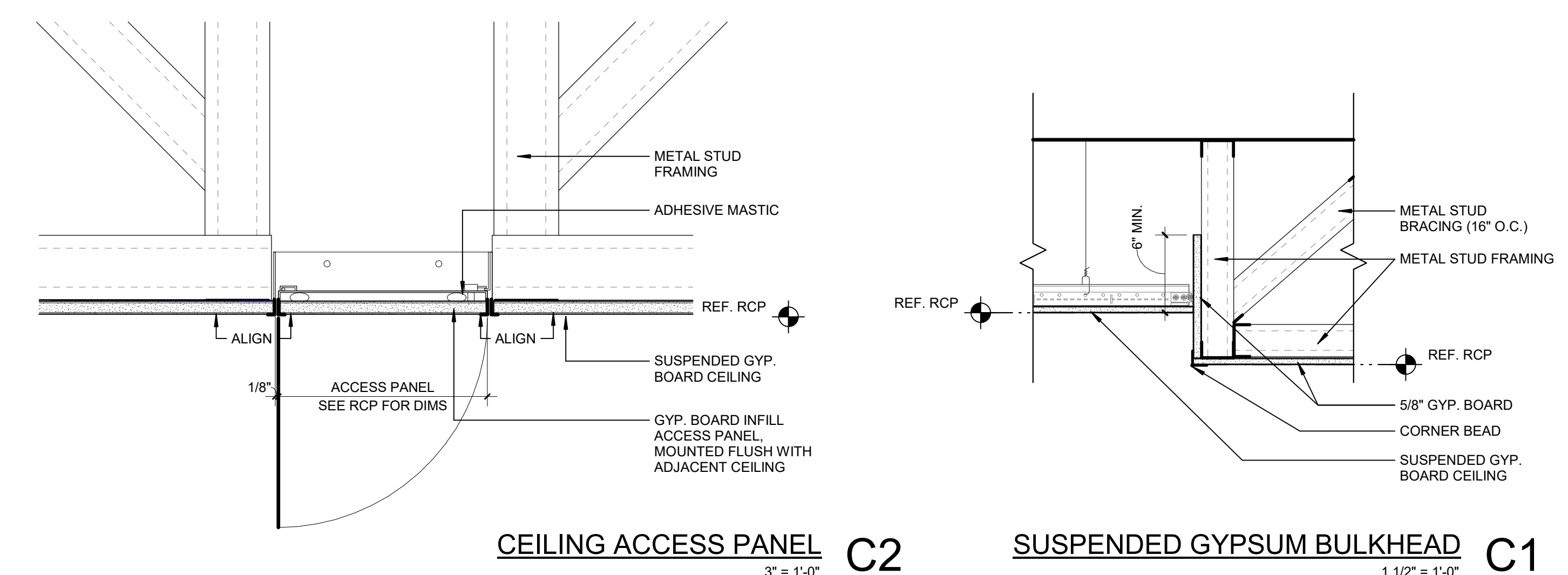
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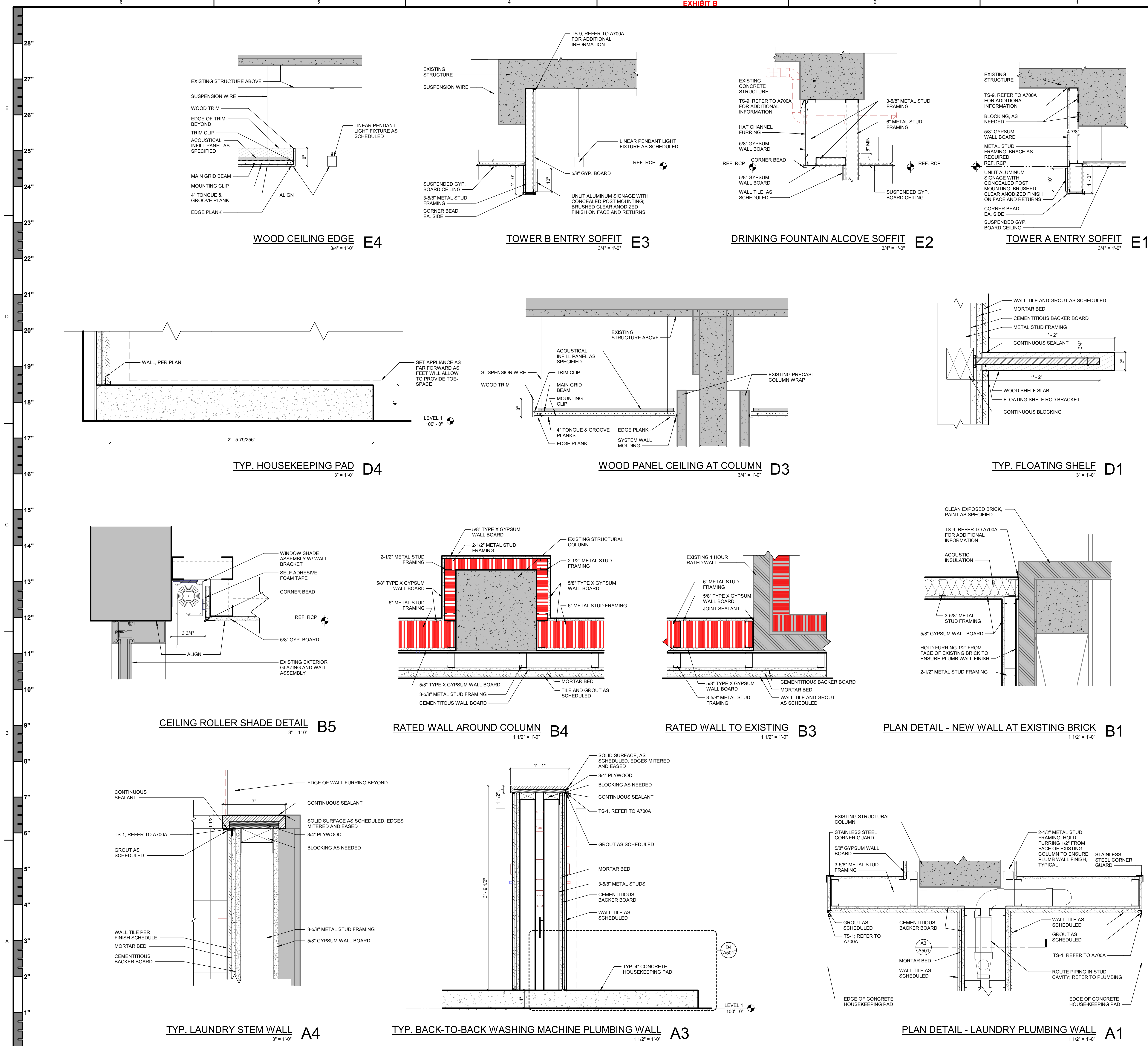
INTERIOR DETAILS -  
TYPICAL

TreanorHL NO. HE0569.230

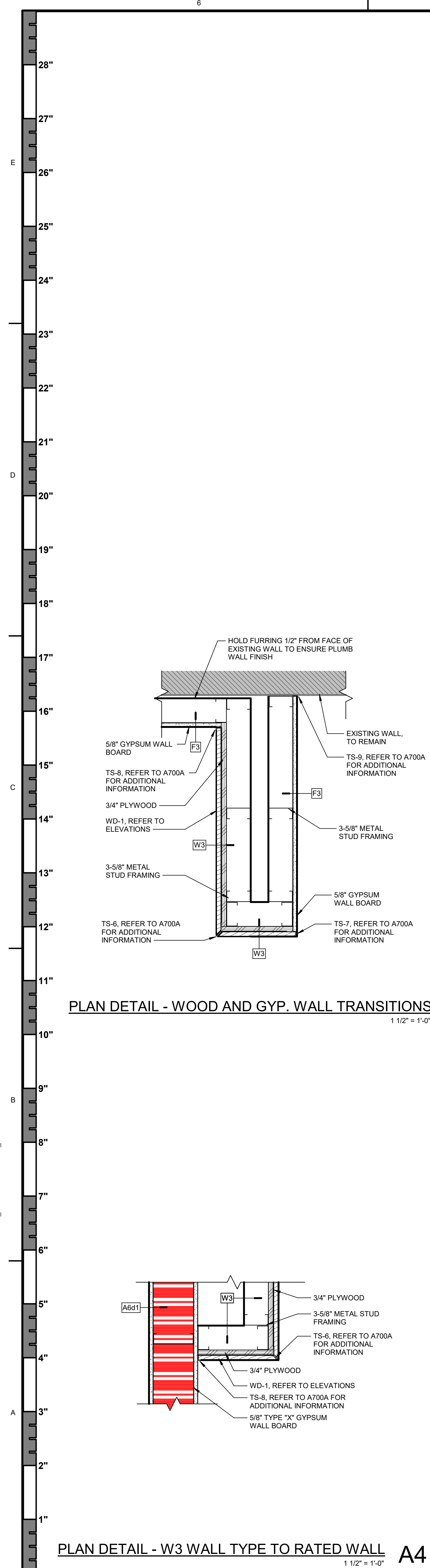
18 of 80



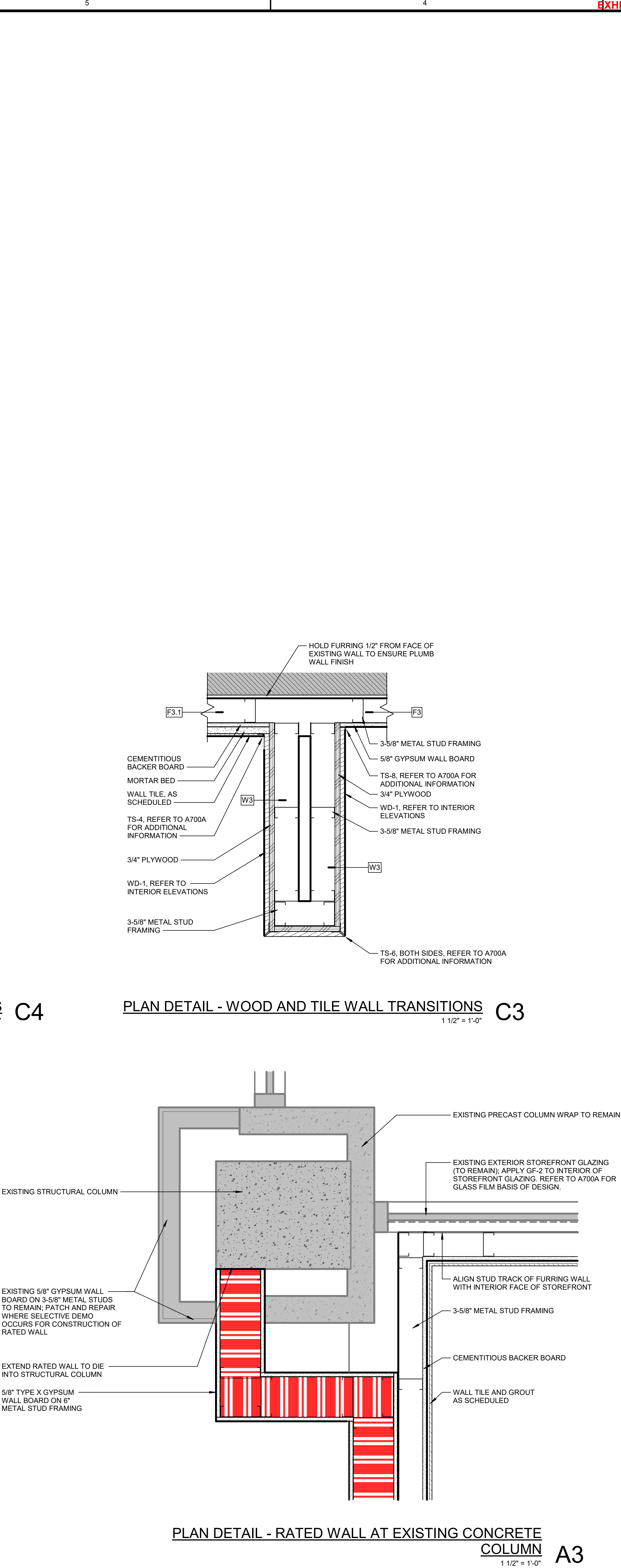




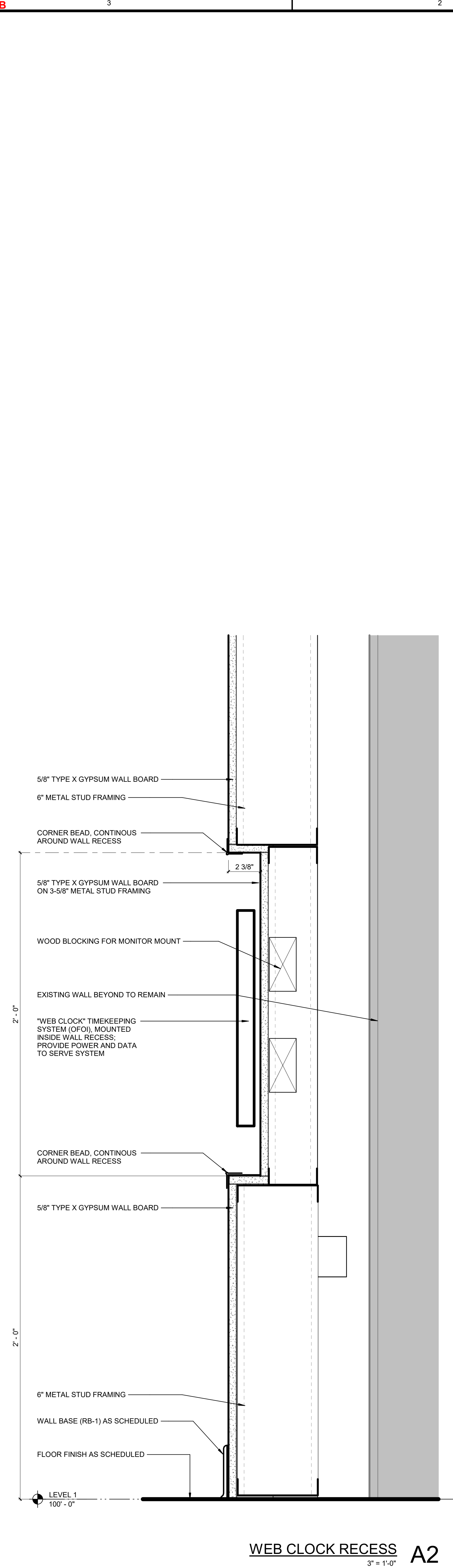




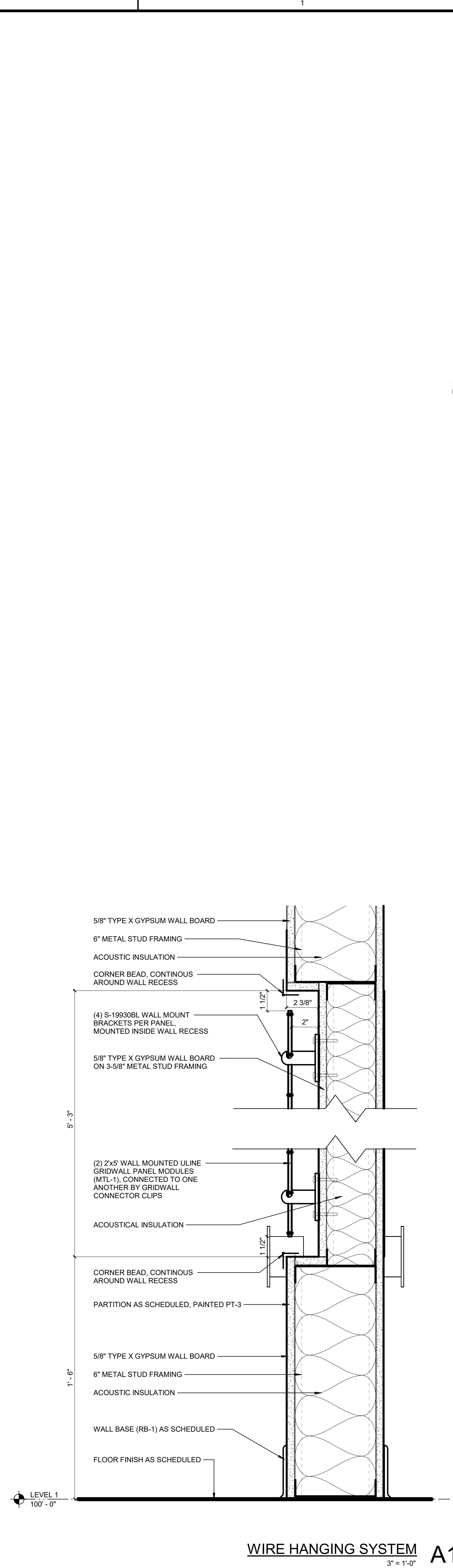
PLAN DETAIL - W3 WALL TYPE TO RATED WALL A4



PLAN DETAIL - RATED WALL AT EXISTING CONCRETE  
COLUMN A3  
1 1/2" = 1'-0"



WEB CLOCK RECESS A2  
3" = 1'-0"

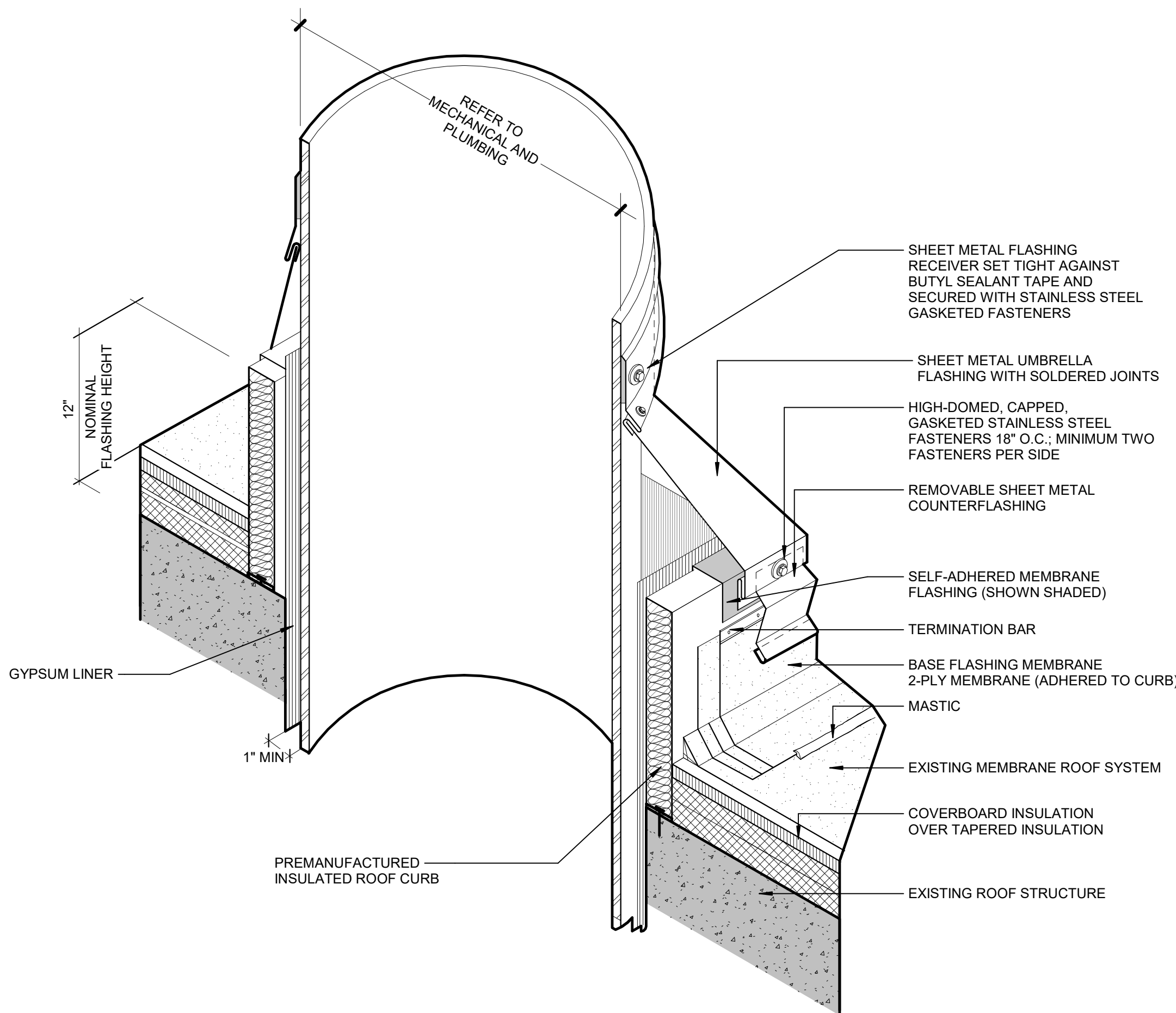


WIRE HANGING SYSTEM      A1  
3" = 1'-0"

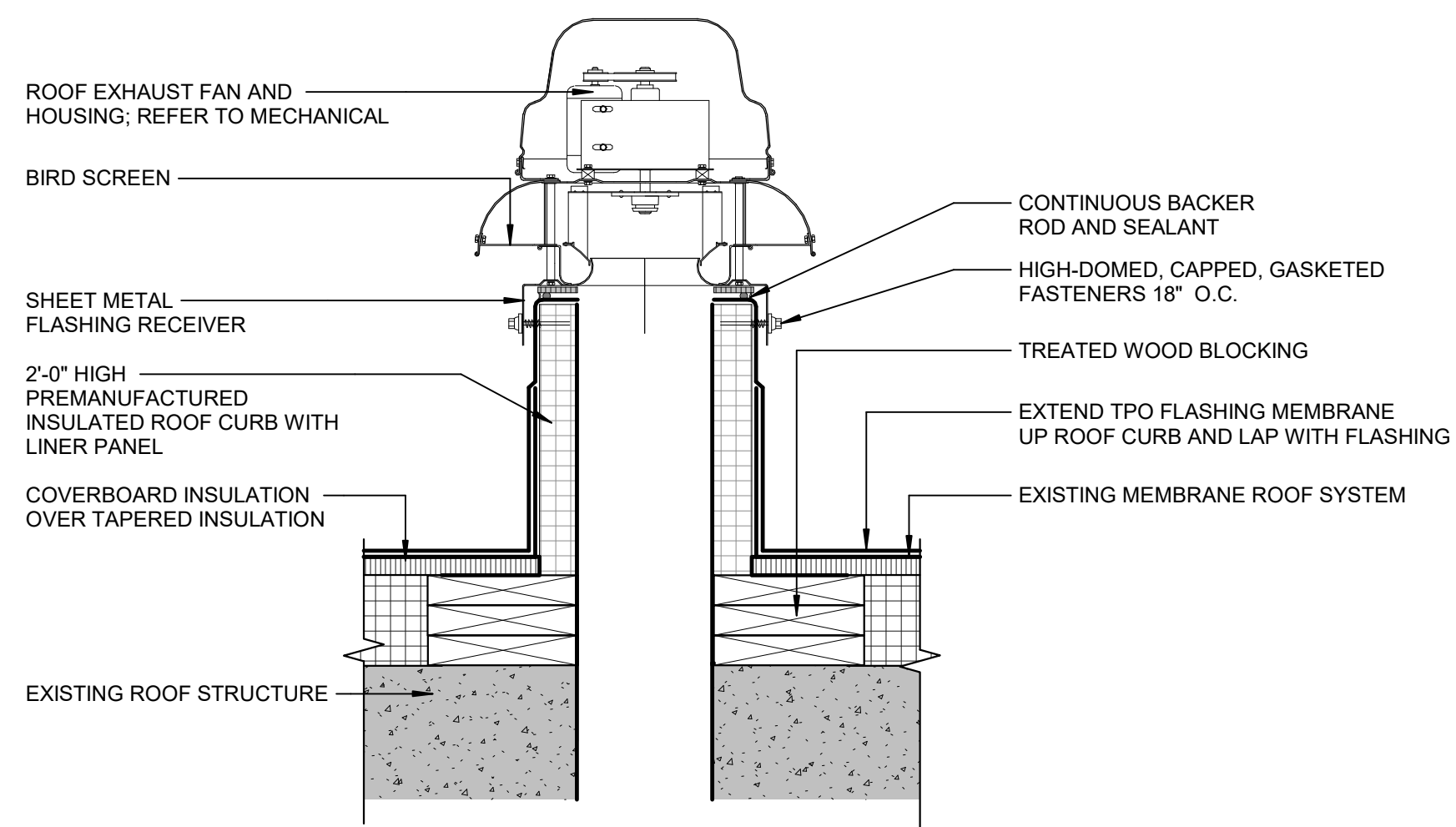
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 UNIVERSITY OF NORTH TEXAS		 a. 25.24	
1413 West Maple St Denton, TX 76201		2554 Elm Street, Suite 200 Dallas, TX 75226 Office: 214.310.1018 www.treanorhill.com	
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<b>Issue:</b> 100% ISSUE FOR CONSTRUCTION			
<b>Date:</b> FEBRUARY 6, 2024			
REVISIONS			
NO	DESCRIPTION	DATE	
A502			
INTERIOR DETAILS (LOBBY, RESTROOMS, & LAUNDRY)			
TreanorHill_NO	HES986 2/20/24		



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ISOLATED STACK VENT ROOF PENETRATION DETAIL A3  
3" = 1'-0"



EXHAUST FAN ROOF PENETRATION DETAIL A1  
1 1/2" = 1'-0"

PROGRESS  
PRINTS  
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Issue: ISSUE FOR CONSTRUCTION  
Date: 11.30.2023

REVISIONS		
NO	DESCRIPTION	DATE

A510

TYPICAL ROOF  
PENETRATION DETAILS

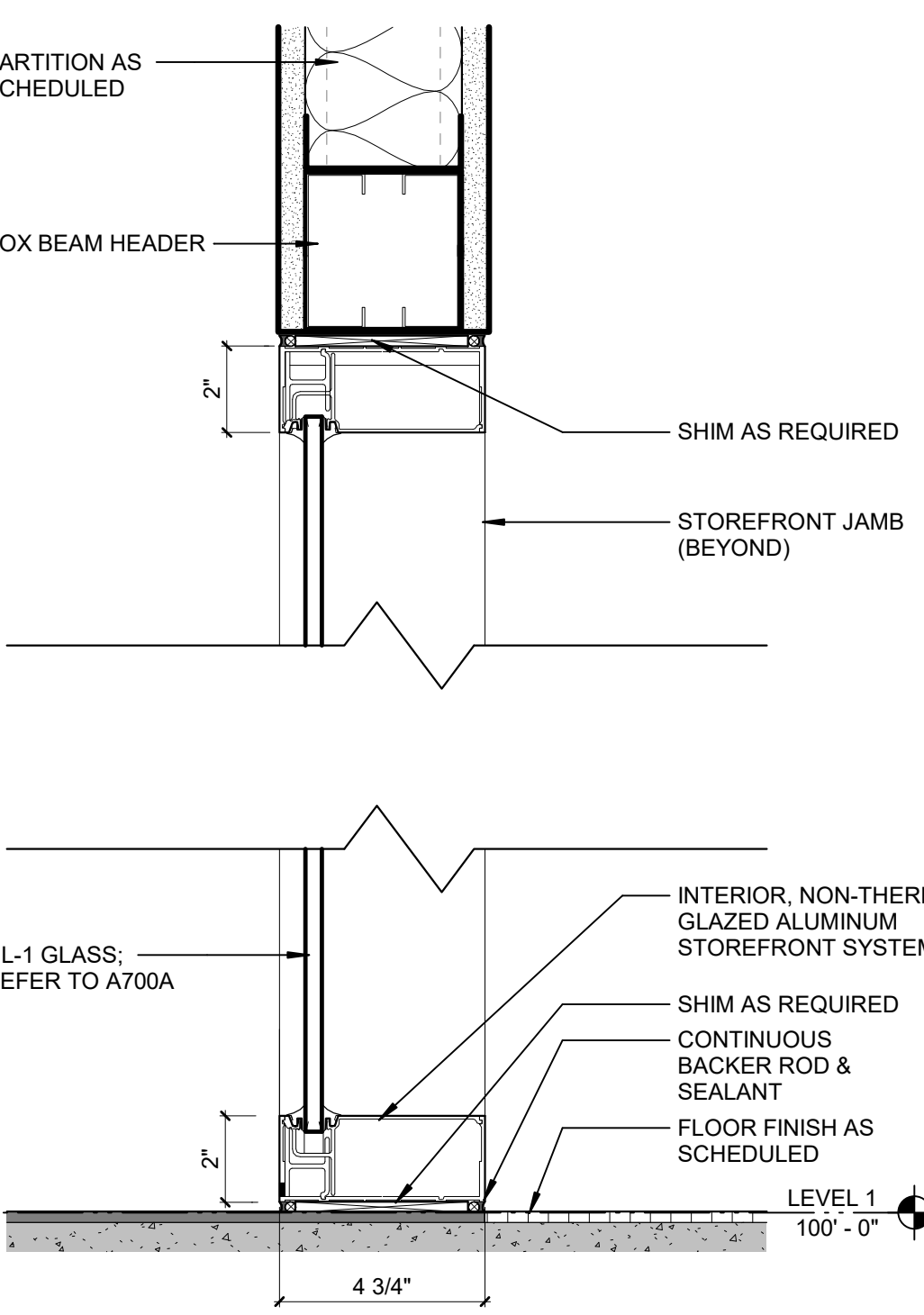
TreanorHL NO. HE0569.2302.01



The image contains two technical drawings of glazing units, labeled '01' and '02', with their respective dimensions and components.

**GLAZING TYPE "01"**  
 Dimensions: 6'-0" height, 4'-0" width for the first panel, 18'-9" total width, and 1'-0" width for the third panel.  
 Components: C2 A601A (corner mullion), REF. SCHEDULE (reference schedule), EQ (equalizer), VERTICAL SSG JOINT (vertical structural glass joint), CORNER MULLION (refer to C1/A601A), C1 A601A (corner mullion).

**GLAZING TYPE "02"**  
 Dimensions: 6'-0" height, 8'-7" total width, and 1'-0" width for the third panel.  
 Components: C2 A601A (corner mullion), REF. SCHEDULE (reference schedule), EQ (equalizer), VERTICAL SSG JOINT (vertical structural glass joint), CORNER MULLION (refer to C1/A601A), C1 A601A (corner mullion).



CARPET AS SCHEDULED

ALUM. TRANSITION STRIP  
(SCHLUTER - VINPRO-S VPS 60)

LVT AS SCHEDULED

CONCRETE SUBSTRATE

Technical cross-section diagram of a door assembly. The diagram shows a vertical section of a door and its surrounding frame. The door is labeled "DOOR AS SCHEDULED" and is set within a "HOLLOW METAL FRAME". Above the door, a "BOX BEAM HEADER" is shown. The assembly is filled with "SOUND ATTENUATION BLANKETS AS SCHEDULED", which are indicated by wavy lines. A dashed line represents the "WALL TILE WHERE SCHEDULED; SHOWN DASHED FOR CLARITY". The top of the assembly is labeled "PARTITION AS SCHEDULED". Dimensions are provided: "2\" on the left side, indicating the height of the door, and "2\" on the right side, indicating the width of the door. The diagram is labeled "DOOR HEIGHT AS SCHEDULED" on the left and "2\" on the right.

Diagram illustrating the cross-section of a door assembly, showing the following components and dimensions:

- DOOR WIDTH AS SCHEDULED** (indicated by a vertical dimension line on the left)
- 2"** (indicated by a horizontal dimension line at the top left)
- 2"** (indicated by a horizontal dimension line at the bottom left)
- 2"** (indicated by a horizontal dimension line at the bottom right)
- Components (from top to bottom):**
  - PARTITION AS SCHEDULED**
  - WALL TIE WHERE SCHEDULED; SHOWN DASHED FOR CLARITY**
  - SOUND ATTENUATION BLANKETS AS SCHEDULED**
  - DOUBLE METAL STUDS**
  - JAMB ANCHOR**
  - HOLLOW METAL FRAME**
  - THRESHOLD / FLOOR TRANSITION BELOW**
  - DOOR AS SCHEDULED**

6"

GLAZING AS SCHEDULED

GLAZED ALUMINUM STOREFRONT SYSTEM AS SCHEDULED

2 1/2"

DOOR HEIGHT / WIDTH AS SCHEDULED

STOREFRONT DOOR AND FRAME AS SCHEDULED

Diagram illustrating a section of a door and glazing assembly. The assembly includes a door, storefront glazing, and a concrete slab. Labels indicate the following components and dimensions:

- DOOR HEIGHT AS SCHEDULED
- DOOR AS SCHEDULED
- STOREFRONT GLAZING MULLION AND DOOR FRAME BEYOND
- EXISTING CONCRETE SLAB BELOW
- FLOORING AS SCHEDULED

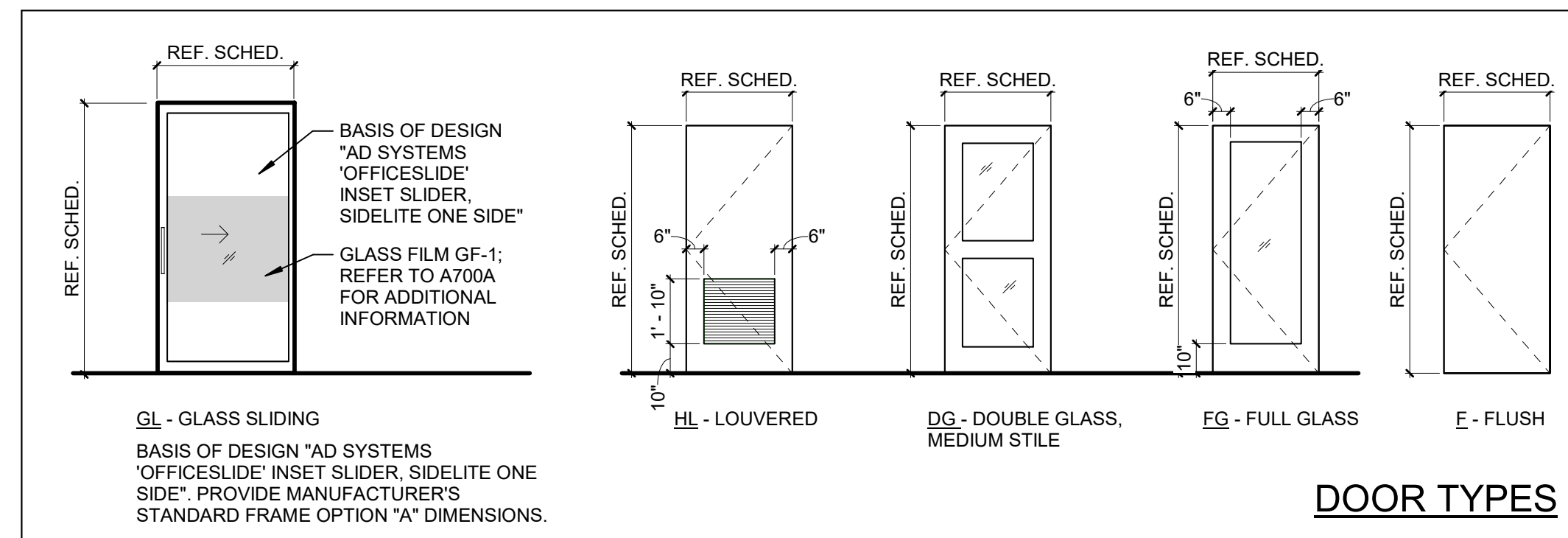
14' - 0"

(6) EQUAL PANELS

8' - 0"

FOLDING - MULTIPANEL FOLDING  
ALUMINUM-FRAMED GLASS DOOR  
BASIS OF DESIGN "NANAWALL SL70"

**ALTERNATE #1**



PARTITION AS SCHEDULED  
 DOUBLE STUDS  
 BACKER ROD & SEALANT, EACH SIDE  
 SHIM AS REQUIRED  
 JAMB MULLION  
 MULLION SILL BELOW  
 GLAZING AS SCHEDULED  
 STRUCTURAL SILICONE  
 GLAZED VERTICAL JOINT (SSG)

6"

GLAZING AS SCHEDULED

GLAZED ALUMINUM STOREFRONT SYSTEM AS SCHEDULED

2 1/2"

DOOR HEIGHT / WIDTH AS SCHEDULED

STOREFRONT DOOR AND FRAME AS SCHEDULED

Diagram illustrating a section of a door and glazing assembly. The assembly includes a door, storefront glazing, and a concrete slab. Labels indicate the following components and dimensions:

- DOOR HEIGHT AS SCHEDULED
- DOOR AS SCHEDULED
- STOREFRONT GLAZING MULLION AND DOOR FRAME BEYOND
- EXISTING CONCRETE SLAB BELOW
- FLOORING AS SCHEDULED

INTERIOR CORNER MULLION CAP

MULLION SILL BELOW

5 3/4"

5 3/4"

GLAZING AS SCHEDULED

6"

EXISTING ALUMINUM STOREFRONT SYSTEM TO REMAIN

INSTALL NEW DOOR IN EXISTING STOREFRONT FRAME. CONNECT EXISTING SURFACE-MOUNTED PUSH-BUTTON AUTOMATIC OPENER TO NEW DOOR

EXISTING

DOOR HEIGHT (WIDTH AS SCHEDULED)

14' - 0"

(6) EQUAL PANELS

8' - 0"

FOLDING - MULTIPANEL FOLDING  
ALUMINUM-FRAMED GLASS DOOR  
BASIS OF DESIGN "NANAWALL SL70"

**ALTERNATE #1**

**ALTERNATE #1**

**ALTERNATE #2 INCLUDES**  
REPLACEMENT OF THE  
EXISTING FRP VESTIBULE  
DOORS WITH NEW  
STOREFRONT DOORS AS  
SCHEDULED.

**REGISTERED ARCHITECT**  
NATIONAL CHARTER  
STATE OF TEXAS  
21721

*a. 25.24*

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**Date:** FEBRUARY 6, 2024

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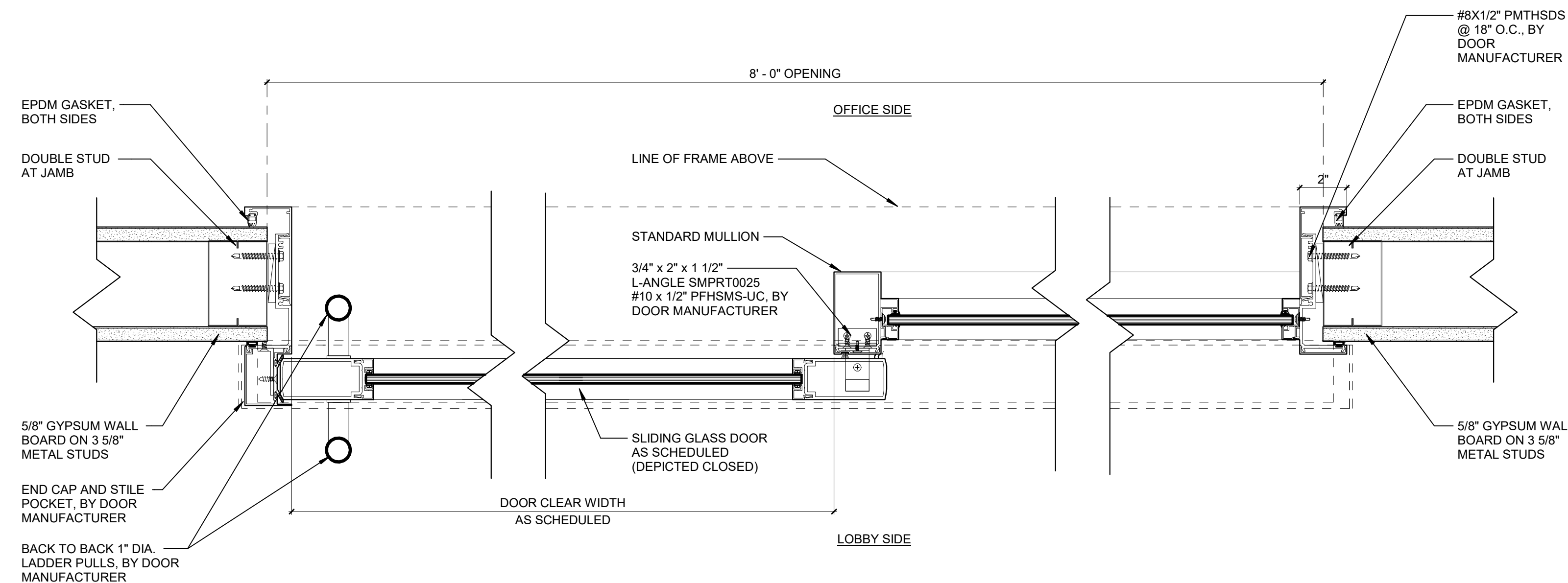
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DOOR & FRAME  
SCHEDULE, GLAZING

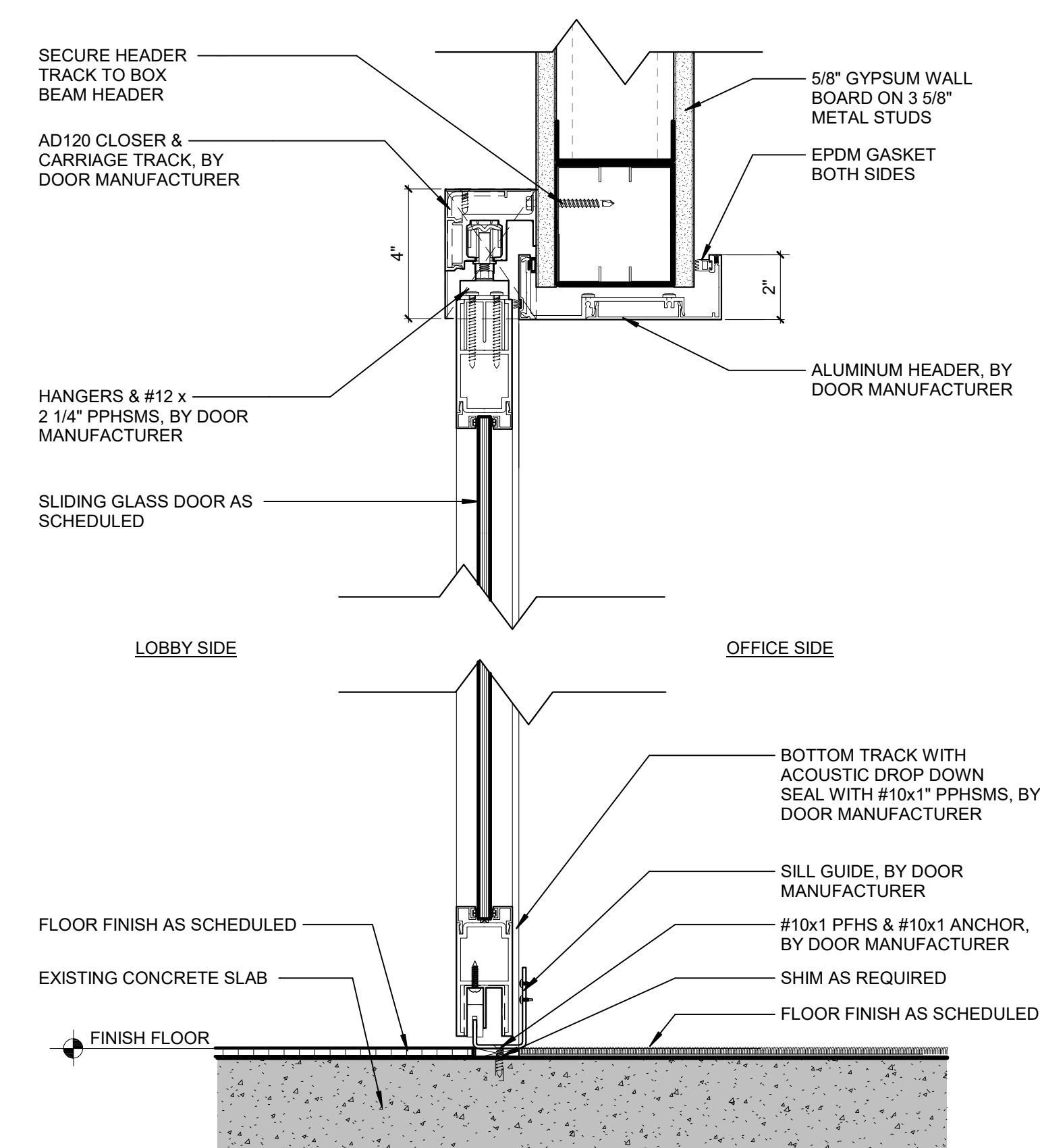
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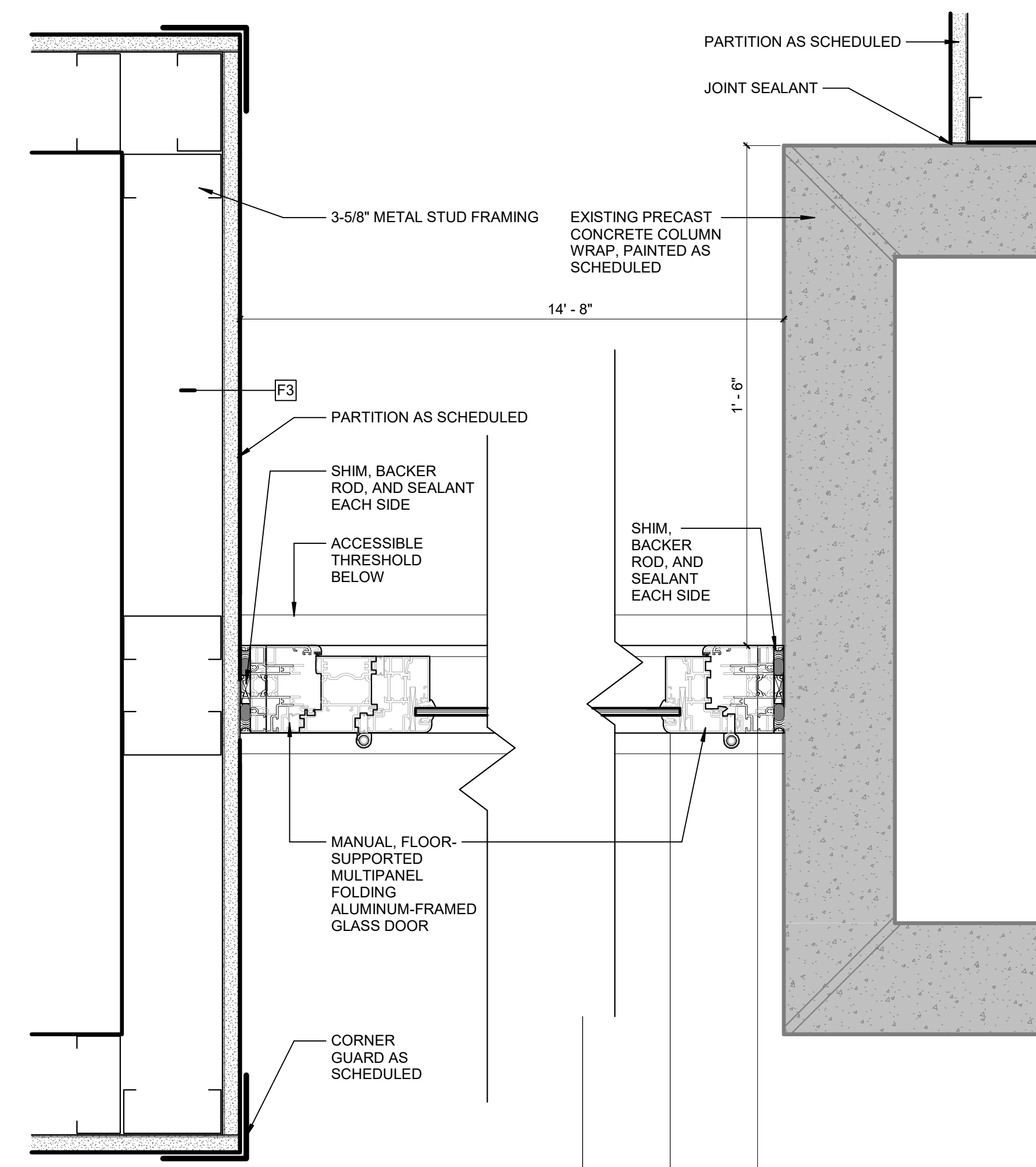




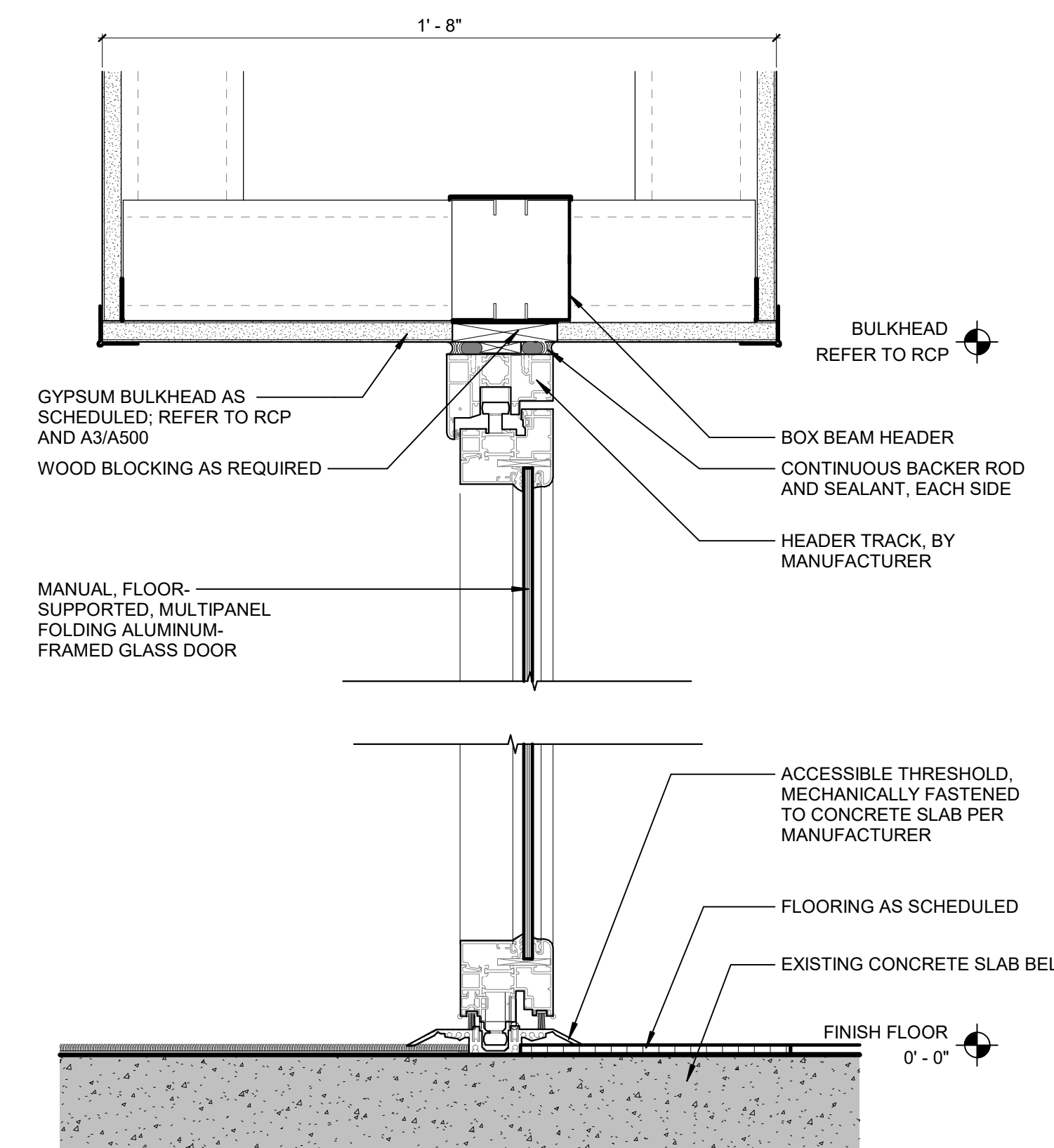
JAMB - SLIDING GLASS DOOR (OFFICES) B3



HEAD AND SILL - SLIDING GLASS DOOR (OFFICES) B1



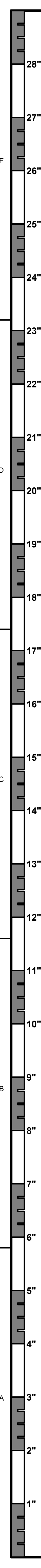
JAMB - MULTIPANEL FOLDING ALUMINUM-FRAMED GLASS  
DOOR (ADD ALTERNATE #1) A3



HEAD AND SILL - MULTIPANEL FOLDING  
ALUMINUM-FRAMED GLASS DOOR (ADD ALTERNATE #1) A1  
3" = 1'-0"



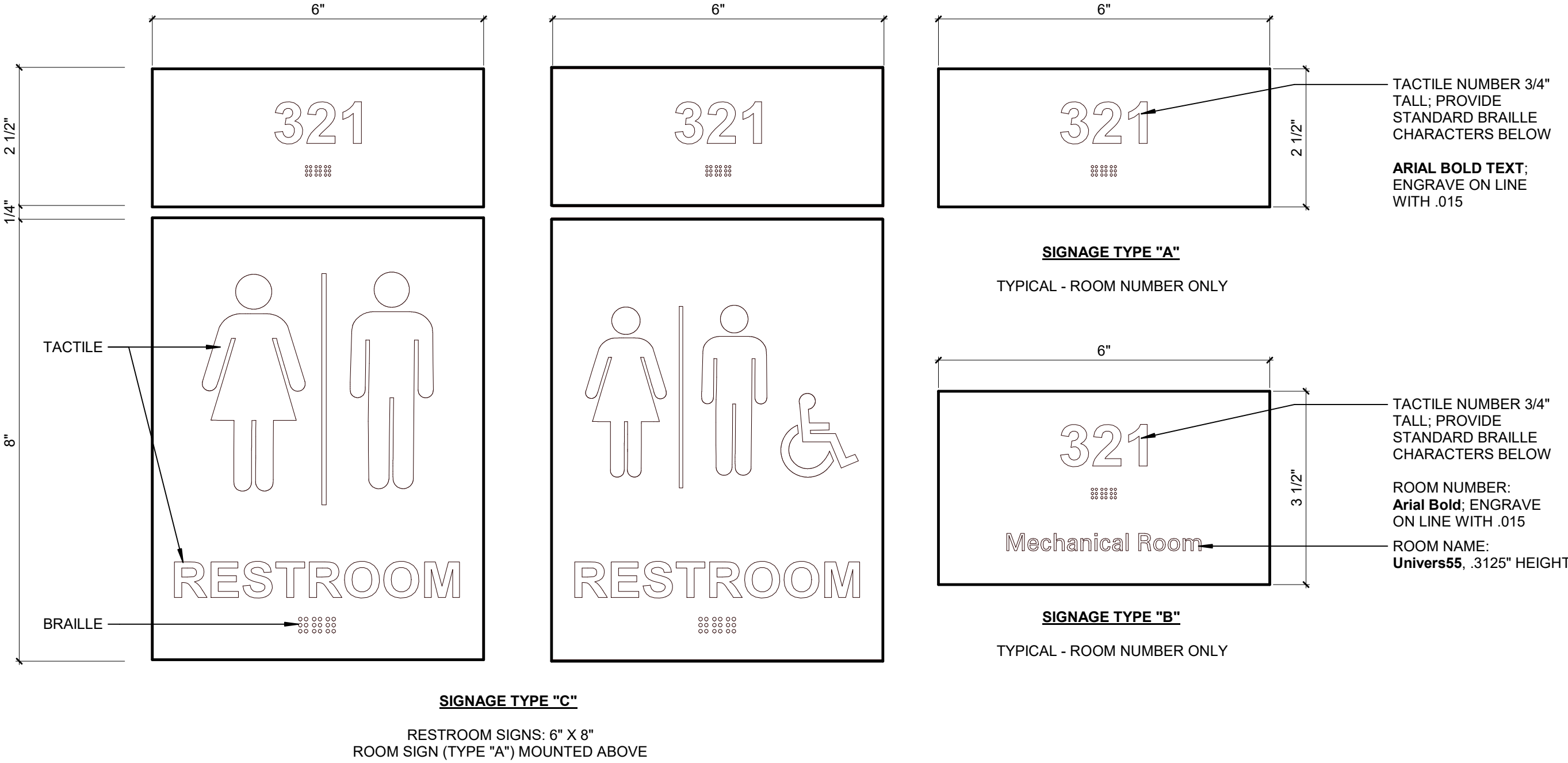
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EXHIBIT B

SUBSTRATE: ROWMARK  
(AVAILABLE AT JOHNSON PLASTICS)  
COLOR: SATIN GREY / WHITE, 1/16"  
THICK (PN 122-32)  
TACTILE APPLIQUE COLOR: WHITE  
1/32" THICK (PN 311201A)



LOBBY SIGNAGE SCHEDULE		
ROOM NO.	ROOM NAME	SIGN TYPE
A151D	RESTROOM	C
A151C	RESTROOM	C
A151B	RESTROOM	C
A151A	RESTROOM	C
A105A	JANITOR	B
A134	COMMUNITY KITCHEN & VENDING	A
A105	LAUNDRY	B
A133	LOUNGE	A
A152	VESTIBULE	A
A145	OFFICE	A
A144	OFFICE	A
A143	OFFICE	A
A142	OFFICE	A
A102	ELEVATOR LOBBY	A
A138	GAMING	A
A101	COMMONS	A
A150	LIVING	A
A137	VESTIBULE	A
B106	RESTROOM	C
B128	RA WORKROOM	A
A100	INFO / RECEPTION	NONE
A113	MECHANICAL	B
A138A	FIRE ALARM CLOSET	B
A138B	IT / DATA (EXISTING)	B
CA151	CORRIDOR	A

UNT SIGNAGE, TYPICAL A1  
8" = 1'-0"

SIGNAGE GENERAL NOTES

- A. REFER TO G003 FOR TYPICAL SIGNAGE MOUNTING HEIGHT AND LOCATION.  
B. COORDINATE SIGNAGE FABRICATION AND PROCUREMENT OF ALL ROOM SIGNAGE WITH OWNER.

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**REGISTERED ARCHITECT**

W. ZHANG

21721

21.25.24

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**KERR HALL INTERIOR RENOVATION**

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NO	DESCRIPTION	DATE

**A611A**

SIGNAGE SCHEDULE & DETAILS

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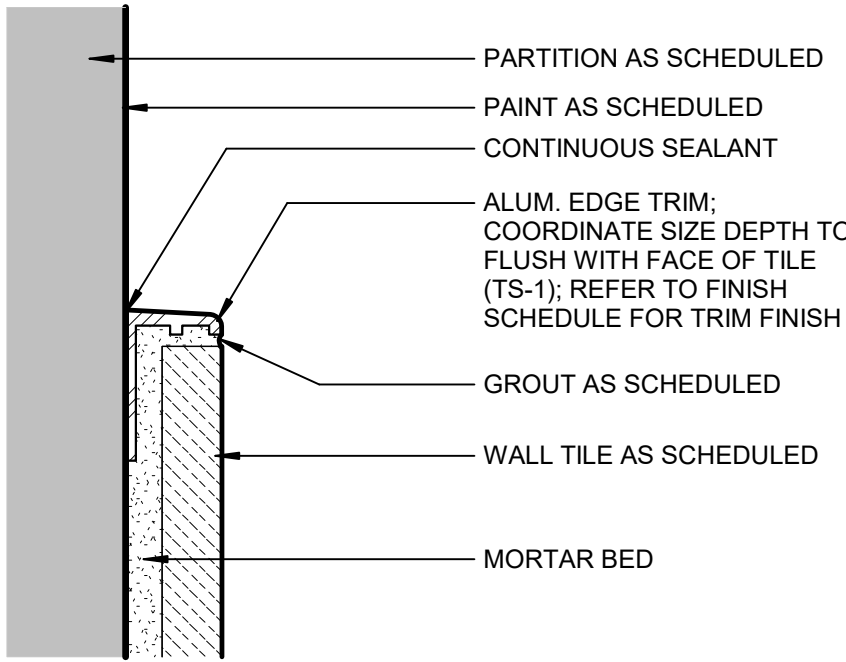


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FINISH LEGEND (LOBBY, RESTROOMS, & LAUNDRY)						
CODE	MANUFACTURER / PATTERN	PRODUCT NO.	COLOR	FINISH	DIMENSION	REMARKS
BASE						
RB-1	NORA - NORAPLAN	ART. 820	BLACK - 6201	SMOOTH	4" H	TYP. RUBBER BASE
CARPET						
CPT-1	INTERFACE - WORLD WOVEN - WW870	138930AK00	105345 CHARCOAL WEFT	-	25 CM x 1 M	ASHLAR PATTERN
CPT-2	MILIKEN - LOUDSPEAKER WOOFER	WOF202-118	GREEN DETAIL	-	25 CM x 1 M	ASHLAR PATTERN
CPT-3	-NOT USED-	-	-	-	-	-
CPT-4	MOHAWK GROUP - FIRST STEP II	QL315	OBSIDIAN - 989	-	24" W x 24" D	WALK OFF MAT, TO BE INSTALLED MONOLITHIC
CEILING						
CL-1	GYPSUM CEILING (PAINTED) - DRYFALL	-	MATCH PT-1, UNO	FLAT	-	TYP. GYP. BOARD CEILING
CL-2	ARMSTRONG - CALLA	2882	WHITE	-	24" W x 24" D	TYP. ACOUSTIC CEILING TILE
CL-3	SONASPRAY - FC	-	LT. GRAY	SPRAYED	1" THICK	TYP. SOUND ABSORPTION SPRAY, SPRAY BETWEEN BEAMS AND GIRDERS ONLY
CL-4	ARMSTRONG - WOODWORKS LINEAR VENEERED CLOSED	6384F01E1W1	CUSTOM STAIN TO MATCH ARCHITECT'S SAMPLE	CUSTOM, WITH 8" VENEERED TRIM	4" X 96", 3/4" THICK, WITH 15/16" SQUARE EDGE	DECORATIVE SUSPENDED WOOD CEILING AT LOBBY RECEPTION AND COMMUNITY KITCHEN; REFER TO RCP FOR EXTENTS
CONCRETE						
EP-1	DUR-A-FLEX DUR-A-GARD MR WITH NON-SLIP BROADCAST	-	AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLOR LINE	3 MIL ALIPHATIC URETHANE PROTECTIVE TOP COAT WITH NON-SLIP BROADCAST	AS INDICATED ON DRAWINGS	LAUNDRY ROOM SEAMLESS, NON-SLIP PIGMENTED FLOORING SYSTEM
SC-1	SCOFIELD CURESEAL-W SEALED CONCRETE	-	-	-	AS INDICATED ON DRAWINGS	USE ON HOUSEKEEPING PADS AND IN MECHANICAL ROOM EXPANSION
GLASS						
GF-1	3M - DUSTED CRYSTAL	7725SE-314	-	-	REFER TO ELEVATIONS	FILM AT OFFICE FRONTS
GF-2	3M - OPAQUE BLACK	SH2BK0P	-	-	REFER TO ELEVATIONS	FILM AT EXTERIOR GLAZING BEHIND FURRING WALL AND UNDERNEATH BAR-HEIGHT SEATING AT EXTERIOR GLAZING
GL-1	INTERIOR LOW-IRON VISION GLASS	-	CLEAR	-	3/8" THICK	TYP. CLEAR TEMPERED GLASS
GL-2	INSULATED LOW-IRON VISION GLASS	-	CLEAR	-	-	LOCATED WITHIN NEW VESTIBULE DOORS
LVT						
LVT-1	SHAW CONTRACT- COMMINGLE	4350V	IRON 50505	EXO GUARD+	9"W X 48"L, 5MM THICKNESS	DIRECT ADHESIVE
LVT-2	SHAW CONTRACT- COMMINGLE	4350V	SLATE 50518	EXO GUARD+	9"W X 48", 5MM THICKNESS	DIRECT ADHESIVE
METAL						
MTL-1	ULINE GRIDWALL PANELS	H-6277BL		1/4" THICK WIRE IN 3" GRIDS	2' x 5' PANEL	MOUNT WITH STANDARD WALL MOUNT BRACKET, TYPICAL; REFER TO B3/A403
MILLWORK						
PT-7	SCUFFMASTER - SMOOTH PEARL	-	MATCH RGB 0.123.60	SATIN	-	MILLWORK BEHIND RECEPTION DESK - UNT GREEN
PT-8	SCUFFMASTER - SMOOTH PEARL	-	SP10200	SATIN	-	MILLWORK BEHIND RECEPTION DESK - WHITE
SS-1	CAMBRIA - FIELDSTONE QUARTZ	TR3	DARK GRAY	MATTE	2 CM THICKNESS	RIDGELINE EDGE
SS-2	STRATUS SURFACES - STRATUS TERRAZZO MONT BLANC CLASSIC HPS	-	-	-	56" X 120" SLAB, 2 CM THICKNESS	ISLAND BAR DIE
WD-1	RIFT CUT WHITE OAK VENEER	-	TO MATCH ARCHITECT'S SAMPLE	POLYURETHANE WOOD FINISH, SATIN SHEEN, STAIN AND MATCH TO ARCHITECT'S SAMPLE	-	MILLWORK THROUGHOUT
WD-2	RIFT CUT WHITE OAK PLANK	-	TO MATCH ARCHITECT'S SAMPLE	POLYURETHANE WOOD FINISH, SATIN SHEEN, STAIN AND MATCH TO ARCHITECT'S SAMPLE	REFER TO DRAWINGS	RECEPTION DESK
PAINT						
PT-1	SHERWIN WILLIAMS - SUPER PAINT	SW 7004	SNOWBOUND	EGGSHELL		FIELD PAINT
PT-2	SHERWIN WILLIAMS - SUPER PAINT	SW 7004	SNOWBOUND	SEMI-GLOSS	-	RESTROOM PAINT, PAINTED BRICK, AT ALL PAINTED BRICK LOCATIONS, PROVIDE SURFACE PREPARATION AND PRIMER AS REQUIRED PER MANUFACTURER'S RECOMMENDATIONS FOR PAINTING EXISTING GLAZED BRICK.
PT-3	SHERWIN WILLIAMS - SUPER PAINT	SW 7674	PEPPERCORN	EGGSHELL	-	ACCENT PAINT THROUGHOUT, DOORS & FRAMES (PROVIDE SEMI-GLOSS FINISH ON DOORS & FRAMES)
PT-4	SHERWIN WILLIAMS - SUPER PAINT	SW 6990	CAVIAR	EGGSHELL		COLUMN PAINT
PT-5	SHERWIN WILLIAMS - SUPER PAINT	SW 6741	DERBYSHIRE	EGGSHELL	-	ACCENT PAINT, PAINTED BRICK, AT ALL PAINTED BRICK LOCATIONS, PROVIDE SURFACE PREPARATION AND PRIMER AS REQUIRED PER MANUFACTURER'S RECOMMENDATIONS FOR PAINTING EXISTING GLAZED BRICK.
PT-6	SHERWIN WILLIAMS - PRO INDUSTRIAL	SW 7004	SNOWBOUND	FLAT	-	CEILING SPRAY
PT-9	SCUFFMASTER - SCRUBTOUGH MAX	-	MATCH PT-3	SEMI-GLOSS	-	ELEVATOR DOORS AND FRAMES
ROLLER SHADES						
RS-1	SOLARE PLUS MANUAL ROLLER SHADE	5% OPEN - SOLARE PLUS	SC-A2-506 (GRAY)	-	AS INDICATED ON DRAWINGS	SEE B5/A501 FOR RECESSED SHADE POCKET DETAIL, PROVIDE STAINLESS STEEL CHAIN.
TACKBOARD						
TB-1	KOROSEAL, TAC-WALL	-	09 ONYX	-	AS INDICATED ON DRAWINGS, .25" THICKNESS	TACKABLE WALL PANELS, PROVIDE STANDARD ALUMINUM J-CAP TRIM IN BLACK
TILE						
TL-1	DALTILE - VOLUME 1.0	VL79	ELECTRIC MOSS	MATTE	24"L x 6"W	ALTERNATE #4, RESTROOM WALL TILE, GROUT CUSTOM BUILDING PRODUCTS #60 CHARCOAL
TL-2	DESIGN DIRECT SOURCE - SANTOS DUET	-	EMERALD GREEN	MATTE/GLOSS	4"L x 4"W	DRINKING FOUNTAIN ALCOVE, GROUT CUSTOM BUILDING PRODUCTS #370 DOVE GREY
TL-3	DALTILE - VOLUME 1.0	VL70	AMPLIFY BLACK	MATTE	24"L x 12"W	RESTROOM FLOOR TILE, USE WITH 6X12 COVE BASE, GROUT CUSTOM BUILDING PRODUCTS #60 CHARCOAL
TL-4	DESIGN DIRECT SOURCE - SANTOS DUET	-	EMERALD GREEN	MATTE/GLOSS	4"L x 4"W	KITCHENETTE BACKSPLASH, GROUT CUSTOM BUILDING PRODUCTS #60 CHARCOAL
TL-5	DALTILE - COLOR WHEEL LINEAR	0790	ARCTIC WHITE	GLOSS	12"L x 4"W	LAUNDRY TILE, GROUT CUSTOM BUILDING PRODUCTS #370 DOVE GREY
TRANSITION STRIP						
TS-1	SCHLUTER JOLLY EDGE TRIM	J60EB	STAINLESS STEEL	BRUSHED	AS REQUIRED	TYP. WALL TILE TRANSITION STRIP
TS-2	SCHLUTER RENO-U REDUCER	EBU80	STAINLESS STEEL	BRUSHED	AS REQUIRED	TYP. FLOOR TILE TO LVT TRANSITION STRIP
TS-3	SCHLUTER RENO-TK REDUCER	EBTK80	STAINLESS STEEL	BRUSHED	AS REQUIRED	TYP. LVT / CONCRETE TO CARPET TRANSITION STRIP
TS-4	SCHLUTER SCHEME	E100EB	STAINLESS STEEL	BRUSHED	AS REQUIRED	TYP. INSIDE CORNER, WALL TILE
TS-5	EAGLE ALUMINUM, DISPLAY FIXTURE BASE CORNER	COR-5172 (E-5172)	STAINLESS STEEL	BRUSHED	AS REQUIRED	TYP. BASE EDGES OF RECEPTION DESK MILLWORK

ROOM BY ROOM FINISH SCHEDULE											
ROOM		FLOORS		WALLS				CEILING	MILLWORK		REMARKS
ROOM #	ROOM NAME	FLOOR FINISH	BASE	NORTH	EAST	SOUTH	WEST	FINISH	MILLWORK	COUNTER	
A100	INFO / RECEPTION	LVT-2	RB-1	-	-	-	-	CL-4	WD-1 / WD-2 / PT-7 / PT-8	SS-1	
A101	COMMONS	LVT-1/LVT-2/ CPT-2	RB-1	PT-1 / PT-3	PT-1 / PT-3	PT-1 / PT-3	PT-1 / PT-3 / TL-2	CL-3	-	-	
A105	LAUNDRY	EP-1	RB-1	PT-1	PT-1 / GF-2	PT-1	PT-1 / TL-5	CL-1	-	SS-1	PROVIDE CONCRETE CURBS AS SPECIFIED
A105A	JANITOR	SC-1	RB-1	PT-1	PT-1	PT-1	PT-1	-	-	-	
A113	MECHANICAL	SC-1	RB-1	PT-1	PT-1	EXISTING TO REMAIN	PT-1	-	-	-	
A133	LOUNGE	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	-	-	
A134	COMMUNITY KITCHEN & VENDING	LVT-1/LVT-2	RB-1	WD-1 / TL-4 / PT-3	-	-	PT-3 / TB-1	CL-4	WD-1 / SS-2	SS-1	
A138	GAMING	CPT-2	RB-1	PT-3	PT-1	GF-2	PT-3	CL-1 / PT-1 / PT-3	-	-	
A138A	FIRE ALARM CLOSET	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	-	-	NO FINISHES INSIDE NEW FIRE ALARM CLOSET. EXISTING WALL WITH FACP TO REMAIN AS-IS, ENCLOSED BY NEW PARTITIONS.
A138B	IT / DATA (EXISTING)	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	CL-4	-	-	NO FINISHES INSIDE EXISTING IT / STORAGE CLOSET
A142	OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-5	CL-2	-	-	
A143	OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-5	CL-2	-	-	
A144	OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-5	CL-2	-	-	
A145	OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-5	CL-2	-	-	
A150	LIVING	CPT-2	RB-1	PT-3	PT-3	PT-3	CL-1 / PT-1 / PT-3	-	-	-	
A151A	RESTROOM	TL-3	TL-3	TL-1/PT-2	PT-2	TL-1/PT-2	TL-1/PT-2	CL-1 / PT-1	WD-1	SS-1	
A151B	RESTROOM	TL-3	TL-3	TL-1/PT-2	PT-2	TL-1/PT-2	TL-1/PT-2	CL-1 / PT-1	WD-1	SS-1	
A151C	RESTROOM	TL-3	TL-3	TL-1/PT-2	PT-2	TL-1/PT-2	TL-1/PT-2	CL-1 / PT-1	WD-1	SS-1	
A151D	RESTROOM	TL-3	TL-3	TL-1/PT-2	PT-2	TL-1/PT-2	TL-1/PT-2	CL-1 / PT-1	WD-1	SS-1	
B106	RESTROOM (EXISTING)	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING RESTROOM TO REMAIN, SCOPE IS LIMITED TO THE DOOR AND FRAME.
B128	RA WORKROOM	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	CL-2	-	-	
C100.1	VESTIBULE	CPT-4	RB-1	-	PT-2	-	PT-2	CL-1 / PT-1	-	-	
C100.2	VESTIBULE	CPT-4	RB-1	-	PT-2	-	PT-2	CL-1 / PT-1	-	-	
C100.3	ELEVATOR LOBBY	LVT-1	RB-1	PT-1	-	PT-1 / PT-3	PT-5	CL-1 / PT-1	-	-	



TILE TERMINATION DETAIL

12" ± 1'-0"

A1

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KERR HALL INTERIOR RENOVATION

1413 West Maple St  
Denton, TX 76201

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Date:

FEBRUARY 6, 2024

REVISIONS

NO	DESCRIPTION	DATE

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INTERIOR FINISH  
LEGEND & DETAILS  
(LOBBY, RESTROOMS, &  
LAUNDRY)

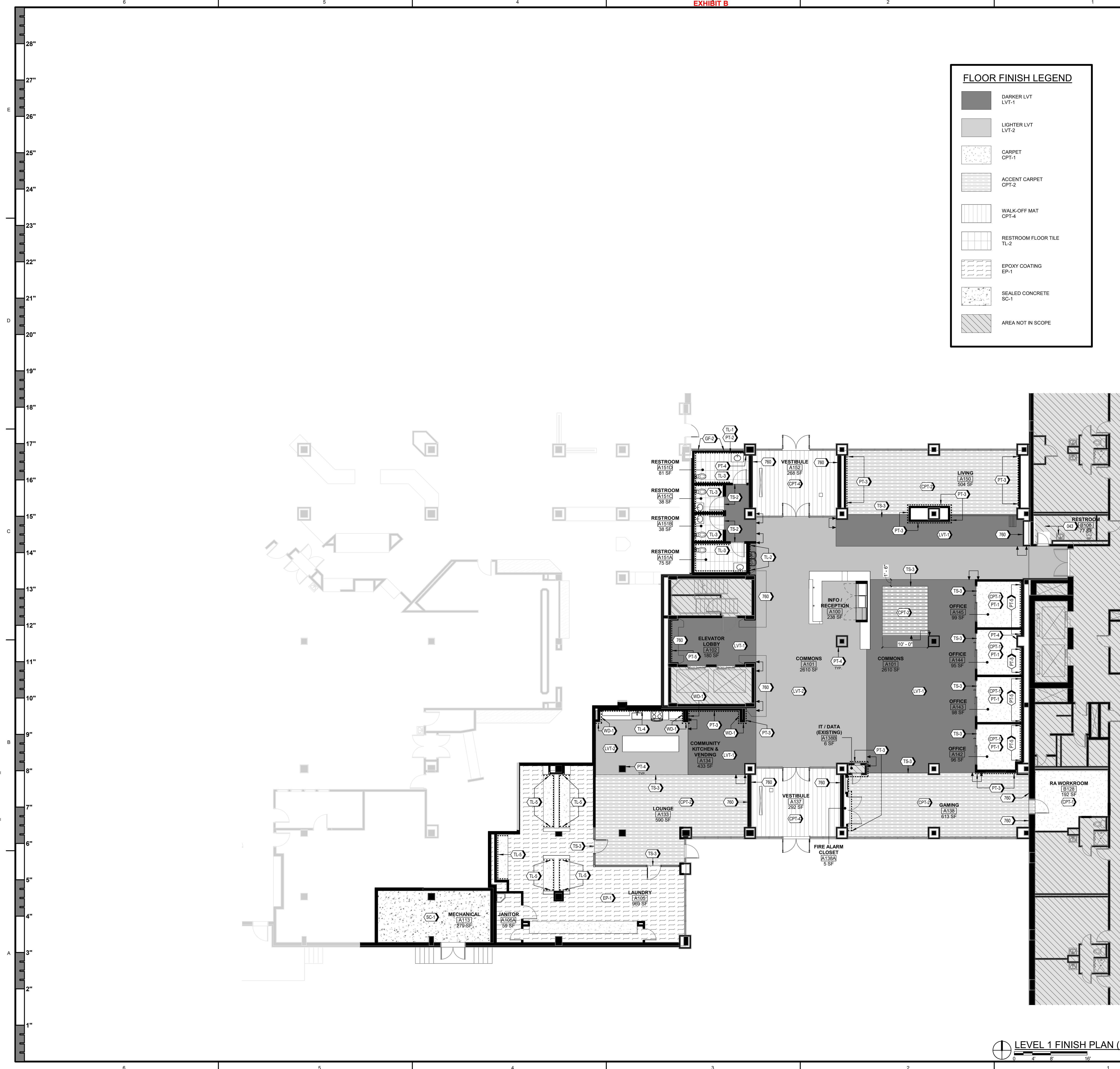
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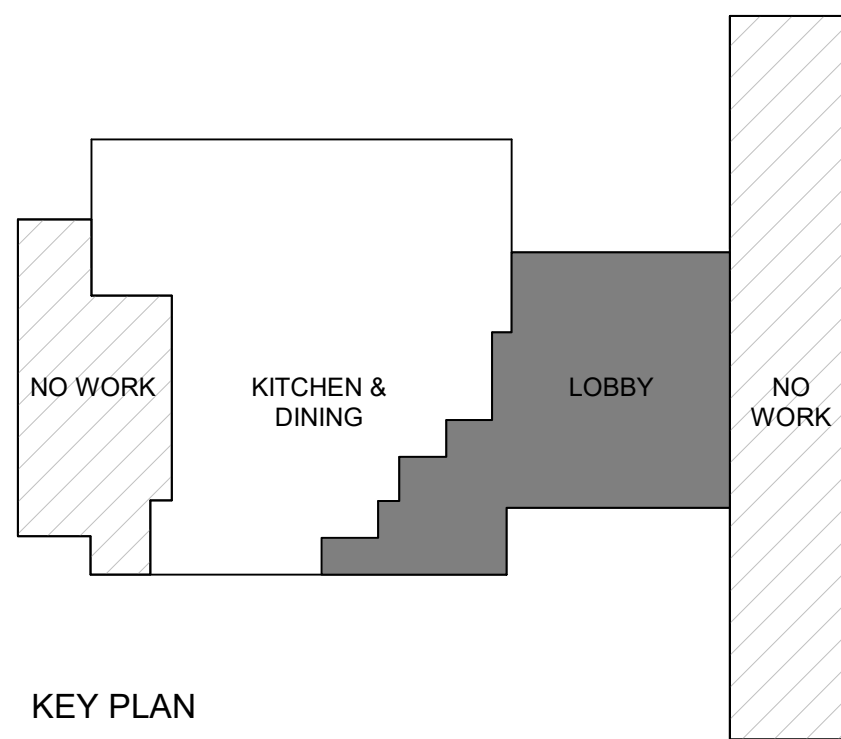


## FINISH PLAN GENERAL NOTES

- A. REFER TO A700 FOR ADDITIONAL INFORMATION.
- B. PAINT ALL EXISTING CONCRETE COLUMN WALLS AND EXPOSED CONCRETE COLUMNS PT-4 UNLESS OTHERWISE NOTED.
- C. PAINT ALL WALLS PT-1 UNLESS OTHERWISE NOTED.
- D. PAINT ALL EXISTING EXPOSED BRICK WALLS PT-2 UNLESS OTHERWISE NOTED.
- E. PAINT EXISTING EXPOSED CEILING PIPING, NEW EXPOSED CEILING PIPING, EXPOSED WIRING, AND EXPOSED CONCRETE BEAMS AND GIRDERIS ABOVE PT-6 UNLESS OTHERWISE NOTED.
- F. ALL FINISH MATERIALS MUST MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
- G. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
- H. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR ALL FLOORING MATERIALS.
- I. FLOORING TRANSITIONS AT DOORS SHOULD BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, UNLESS OTHERWISE NOTED.
- J. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISH FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
- K. TEST CONCRETE MOISTURE LEVELS AT ALL RENOVATION SLABS WHERE NEW FLOOR FINISHES ARE BEING INSTALLED TO ENSURE MOISTURE CONTENT FALLS WITHIN MANUFACTURERS ALLOWED LIMITS. IF NECESSARY, PROVIDE MOISTURE MITIGATION OR ABATEMENT AS NECESSARY WHEN OUTSIDE OF ALLOWABLE LIMITS.
- L. NOTE EXISTING CONDITIONS THAT DO NOT COMPLY WITH NEW FINISHES, NOTIFY ARCHITECT OF DISCREPANCIES.
- M. EPOXY PAINT REQUIRED FOR ALL WET LOCATIONS: RESTROOMS, CUSTODIAL ROOMS, KITCHENS, ETC.
- N. AT GYPSUM BOARD CEILINGS, PROVIDE PAINTABLE ACCESS PANELS, DIFFUSERS, AND RETURN AIR GRILLES. PAINT ACCESS PANELS TO MATCH COLOR OR ADJACENT SURFACES.
- O. WHERE EXPOSED CEILINGS ARE NOTED TO BE PAINTED, PAINT ALL EXPOSED DUCTWORK, CONDUIT, ELECTRICAL EQUIPMENT, PIPES, MECHANICAL EQUIPMENT AND OTHER EXPOSED ELEMENTS (NEW OR EXISTING) TO MATCH ADJACENT SURFACES, UNLESS OTHERWISE NOTED.
- P. PAINT ALL NON-FACTORY FINISHED EXPOSED METAL, COLOR TO MATCH ADJACENT SURFACES, UNLESS OTHERWISE NOTED.
- Q. CONCRETE HOUSEKEEPING PADS TO BE TROWELED FINISHED WITH EASED, TROWELED EDGES.

## KEYNOTES

- |        |  |
|--------|--|
| 403    | EXISTING TOILET, SINK, TOILET PARTITION, AND RESTROOM FINISHES TO REMAIN                                       |
| 760    | SURFACE PREPARATION AND PRIMER AS REQUIRED BY MANUFACTURERS RECOMMENDATIONS FOR PAINTING EXISTING GLAZED BRICK |
| CP-T-1 | INTERFACE WORK WOVEN CHARGED WEFT CARPET TILE; REFER TO A700A FOR ADDITIONAL INFORMATION                       |
| CP-T-2 | MILIKEN LOUPESEAL WOOFER GREEN DETAIL CARPET TILE; REFER TO A700A FOR ADDITIONAL INFORMATION                   |
| CP-T-4 | MOHAWK GROUP FIRST STEP OBSIDIAN CARPET TILE; REFER TO A700A FOR ADDITIONAL INFORMATION                        |
| EP-F-1 | FLOORING; REFER TO A700A FOR ADDITIONAL INFORMATION  |
| GF-2   | OPAQUE BLACK WINDOW FILM; REFER TO A700A FOR ADDITIONAL INFORMATION  |
| LVT-1  | SHAW COMMINGLE 5815 5/8"X5/8" VINYL TILE FLOORING; REFER TO A700A FOR ADDITIONAL INFORMATION                   |
| LVT-2  | SHAW COMMINGLE SLATE 50518 VINYL TILE FLOORING; REFER TO A700A FOR ADDITIONAL INFORMATION                      |
| P-T-1  | PAINT COLOR 1 (SNOWBOUND - EGGSHELL); REFER TO A700A FOR ADDITIONAL INFORMATION                                |
| P-T-2  | PAINT COLOR 2 (SNOWBOUND - SEMI-GLOSS); REFER TO A700A FOR ADDITIONAL INFORMATION                              |
| P-T-3  | PAINT COLOR 3 (PERSPECTOR - EGGSHELL); REFER TO A700A FOR ADDITIONAL INFORMATION                               |
| P-T-4  | PAINT COLOR 4 (CAVIER - EGGSHELL); REFER TO A700A FOR ADDITIONAL INFORMATION                                   |
| P-T-5  | PAINT COLOR 5 (DERBYSHIRE - EGGSHELL); REFER TO A700A FOR ADDITIONAL INFORMATION                               |
| SC-1   | SEALED CONCRETE FINISH; REFER TO A700A FOR ADDITIONAL INFORMATION  |
| TL-1   | ALTERNATE #4 DALTILE VOLUME 1 WALL TILE, 6" x 24"; REFER TO A700A FOR ADDITIONAL INFORMATION                   |
| TL-2   | DESIGN DIRECT SOURCE SANTOS WALL TILE, 6" x 24"; REFER TO A700A FOR ADDITIONAL INFORMATION                     |
| TL-3   | DALTILE VOLUME 1 FLOOR TILE, 12" x 24"; REFER TO A700A FOR ADDITIONAL INFORMATION                              |
| TL-4   | DIRECT DESIGN SOURCE SANTOS TILE, 6" x 4"; REFER TO A700A FOR ADDITIONAL INFORMATION                           |
| TL-5   | DALTILE COLOR WHEEL; LINEAR TILE; REFER TO A700A FOR ADDITIONAL INFORMATION                                    |
| TS-2   | SCHLUTER RENO-U REDUCER; REFER TO A700A FOR ADDITIONAL INFORMATION   |
| TS-3   | SCHLUTER RENO-TK REDUCER; REFER TO A700A FOR ADDITIONAL INFORMATION  |
| WD-T-1 | RIFT CUT WHITE OAK; REFER TO A700A FOR ADDITIONAL INFORMATION  |



**Note:**

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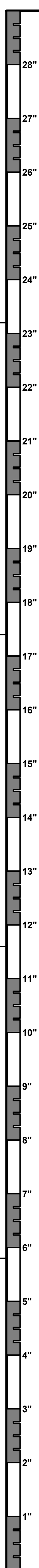
FINISH PLAN (LOBBY,  
RESTROOMS, &  
LAUNDRY)

TreanorHL NO. HE0569.2302.01



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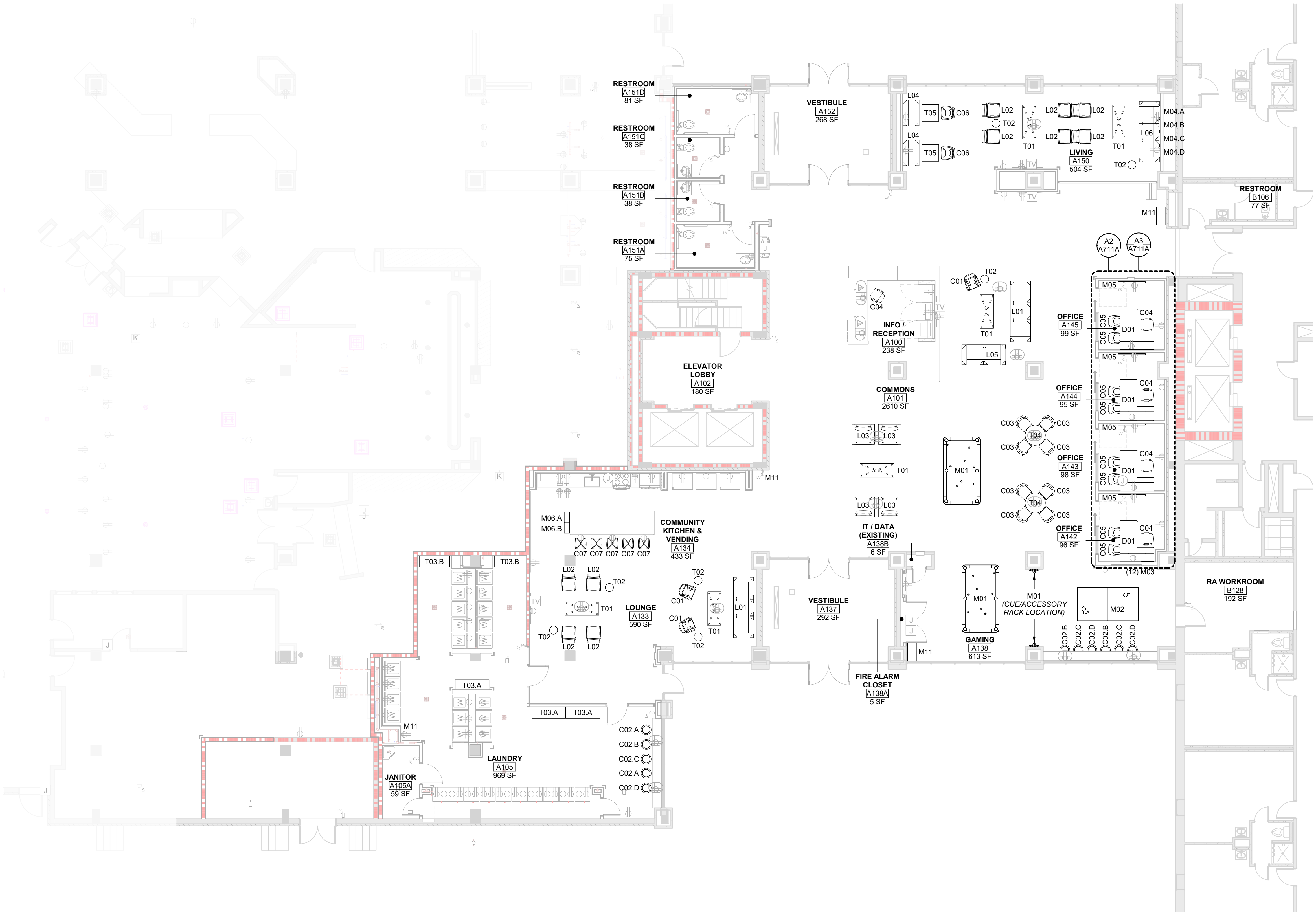
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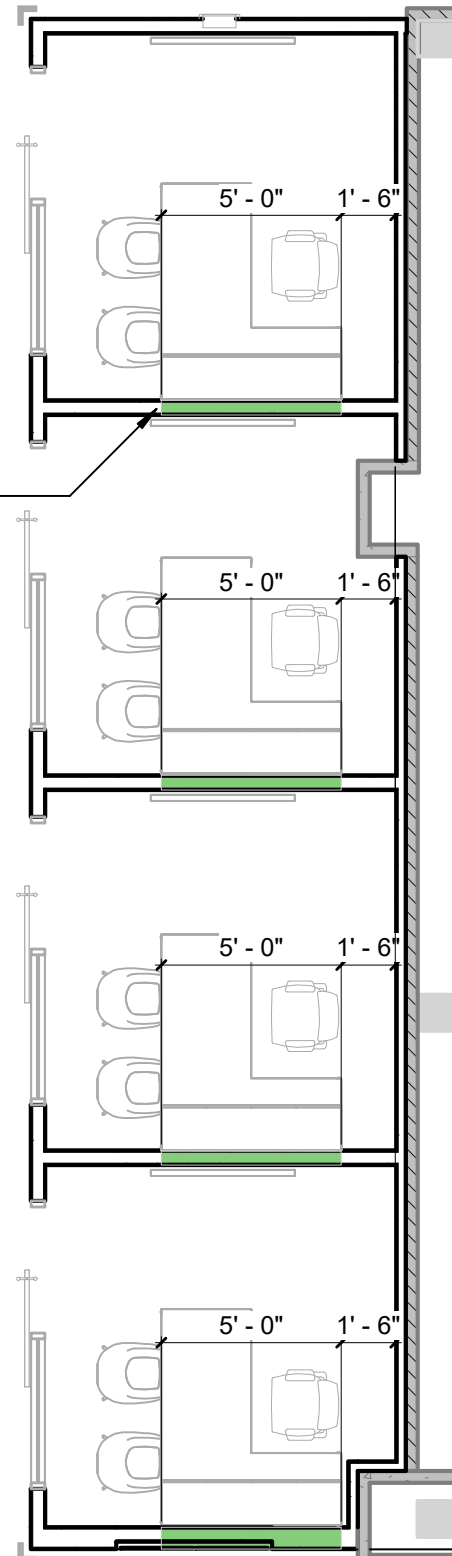
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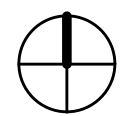
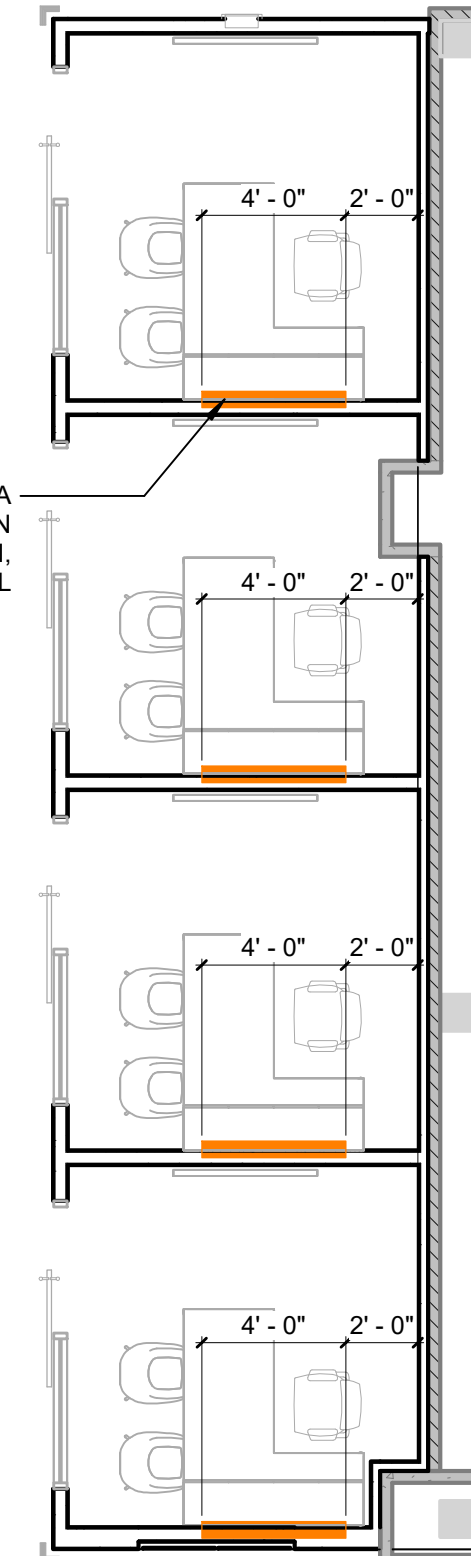
ENLARGED PLAN - OFFICE BLOCKING PLACEMENT  
3/16" = 1'-0" A3

LOCATE BLOCKING WITHIN  
GREEN HATCHED REGION,  
TYP



ENLARGED PLAN - OFFICE RECEPTACLE PLACEMENT  
3/16" = 1'-0" A2

LOCATE POWER/DATA  
RECEPTACLES WITHIN  
ORANGE HATCHED REGION,  
TYPICAL

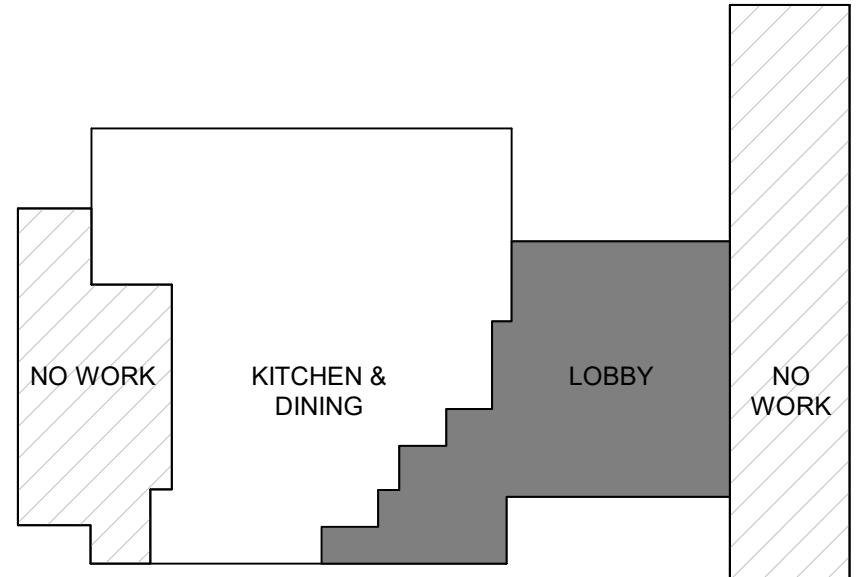


LEVEL 1 FURNITURE PLAN (LOBBY)  
1/8" = 1'-0"

A1

### FURNITURE GENERAL NOTES

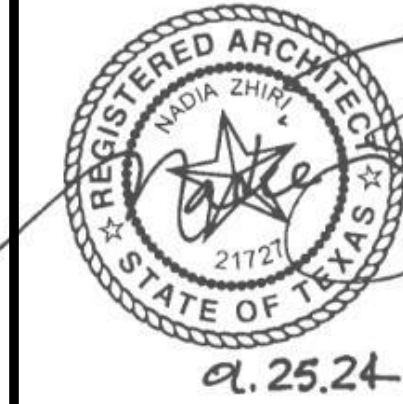
A. FURNITURE PLAN FOR REFERENCE ONLY. REFER TO FURNITURE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



KEY PLAN

Note:

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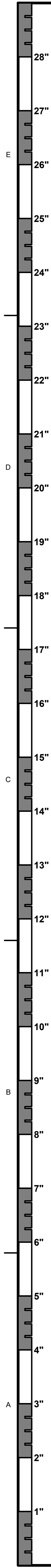
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NO	DESCRIPTION	DATE

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FURNITURE PLAN  
(LOBBY, RESTROOMS, &  
LAUNDRY)

TreanorHL NO. HE0569.2302.01





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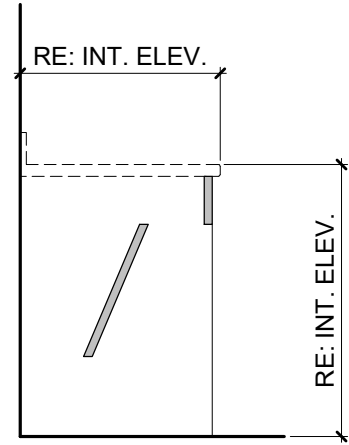
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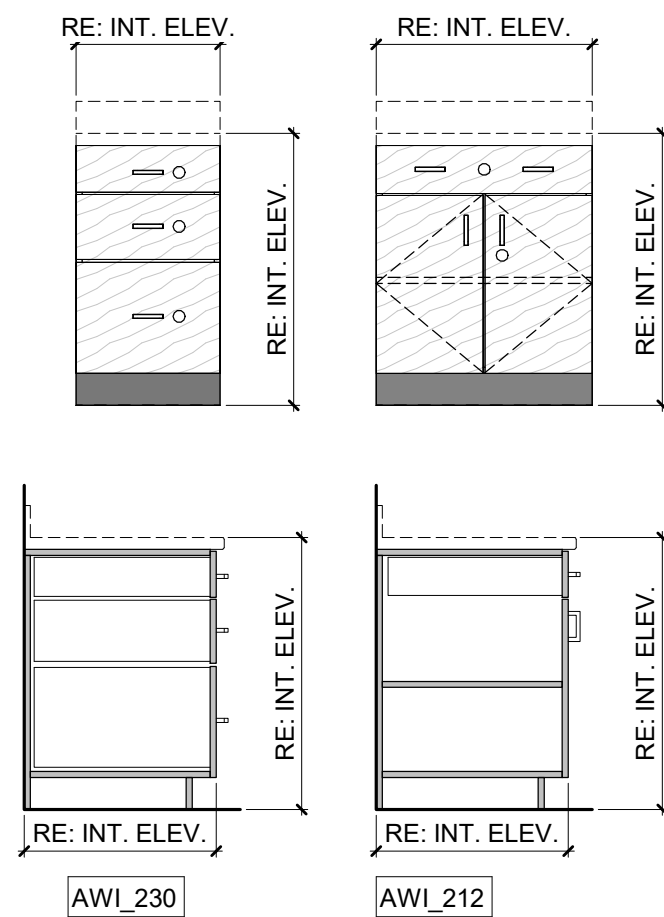
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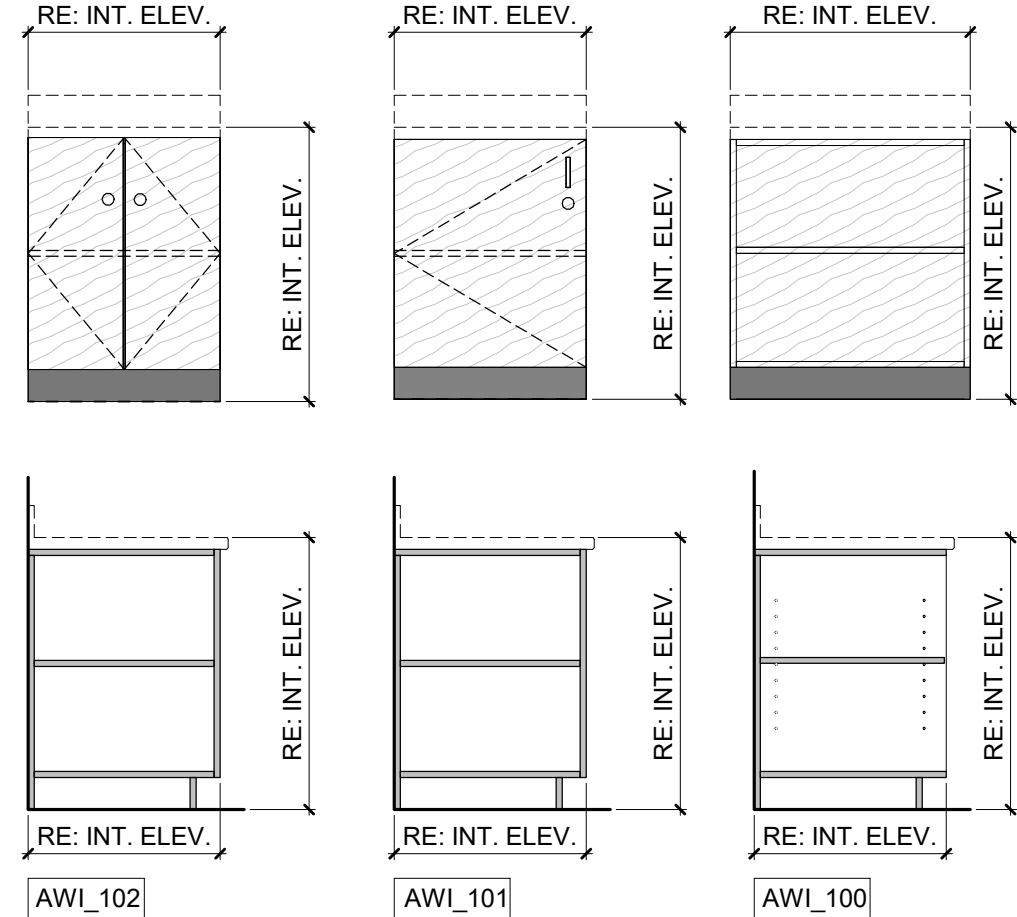


AP2  
XX  
XX

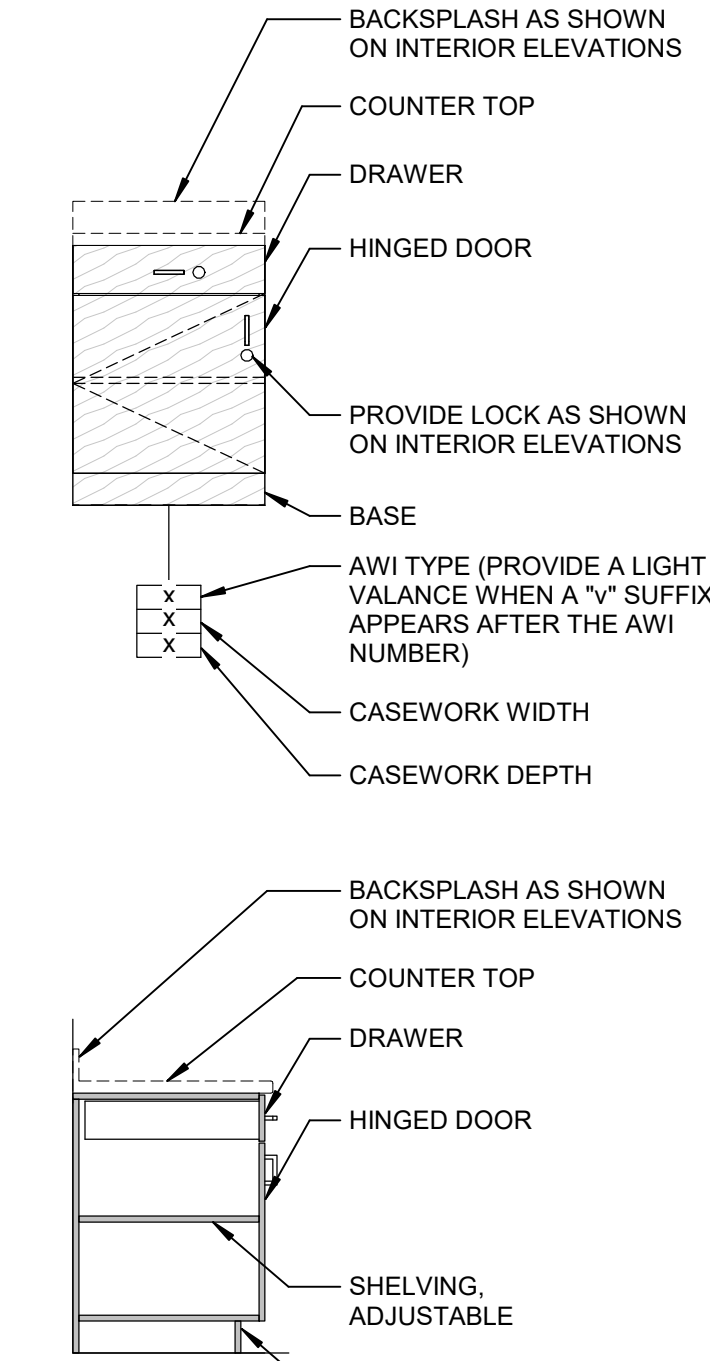
AWI AP#  
1/2" = 1'-0"



AWI 2##  
1/2" = 1'-0"



AWI 1##  
1/2" = 1'-0"



AWI CASEWORK LEGEND

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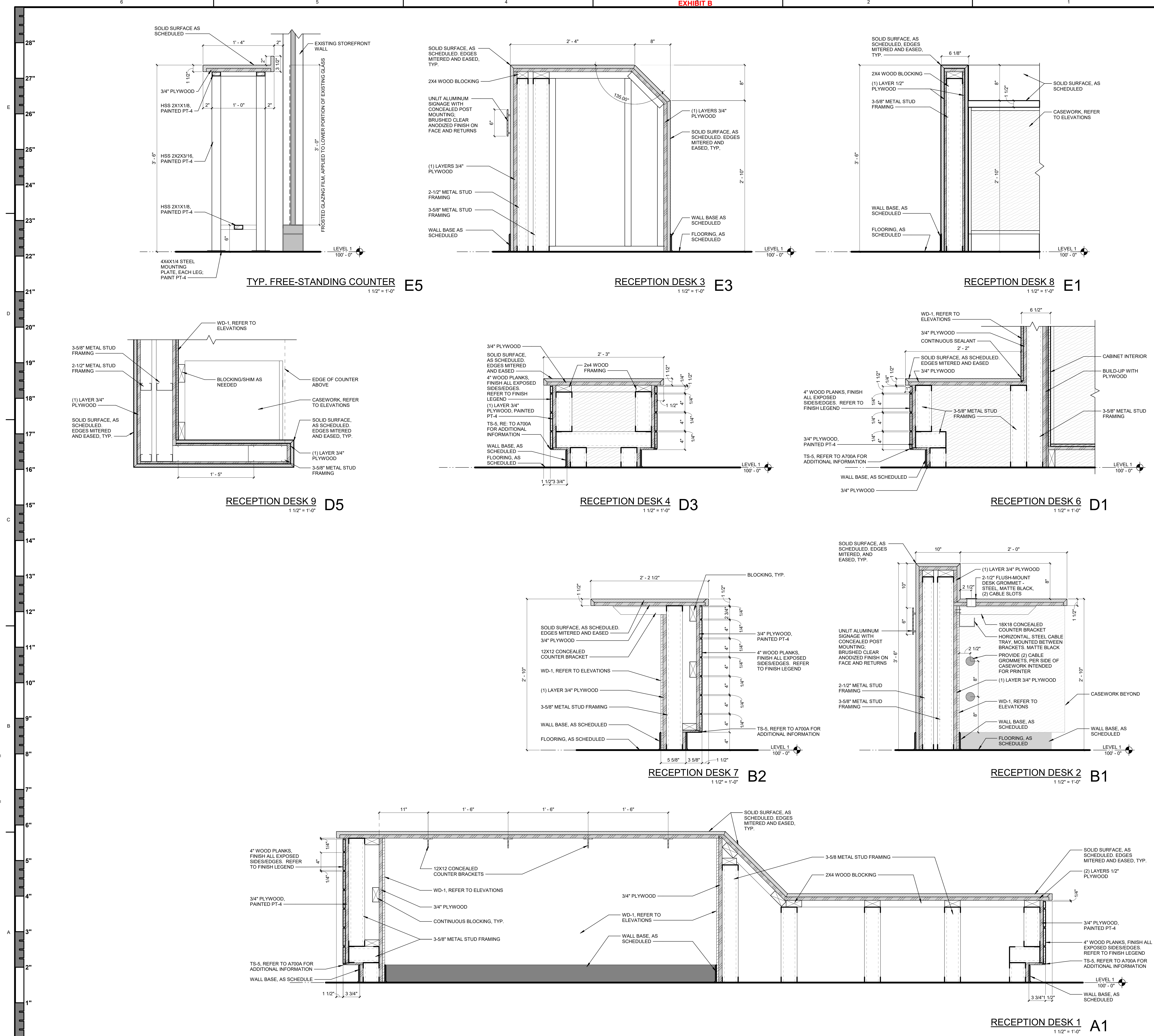


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NO	DESCRIPTION	DATE





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### INTERWORK DETAILS

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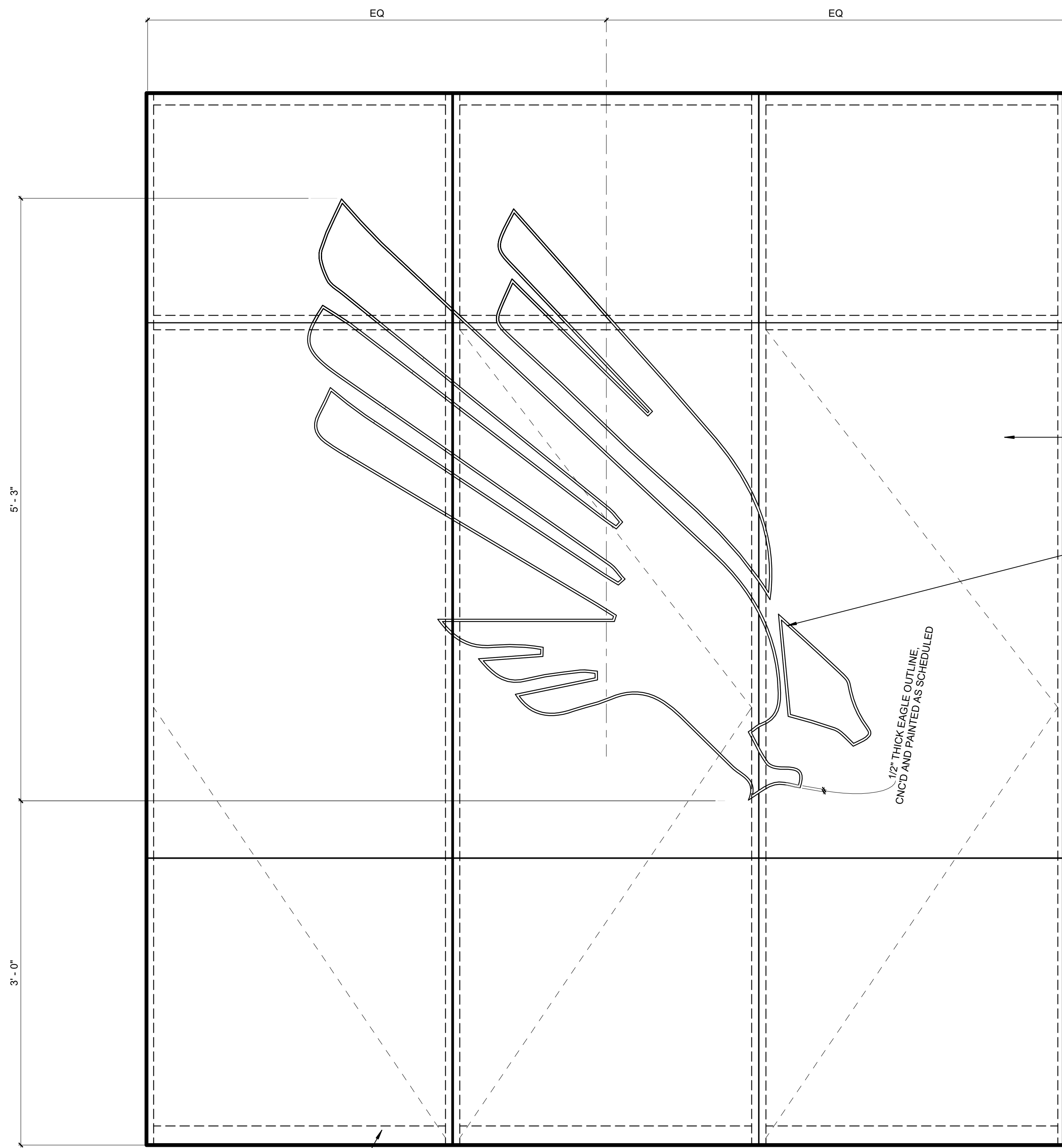
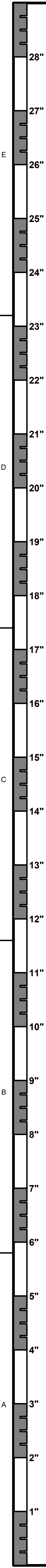
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PROVIDE HEAVY DUTY MAGNETIC PUSH LATCH  
HARDWARE FOR FRAMELESS CABINET DOORS  
(BASIS OF DESIGN SUGATSUNE ML-80/BLK)

NOTE: CONTRACTOR SHALL COORDINATE WITH OWNER TO OBTAIN THE  
OFFICIAL LOGO FILES TO PRODUCE THE CNC ROUTED DESIGN.

CABINET DOOR - EAGLE DETAIL  
1 1/2" = 1'-0" A3

WD-1 CABINET DOOR  
MATERIAL, PAINTED PT-7.  
PROVIDE STIFFENERS AS  
REQUIRED TO MAINTAIN  
FLATNESS

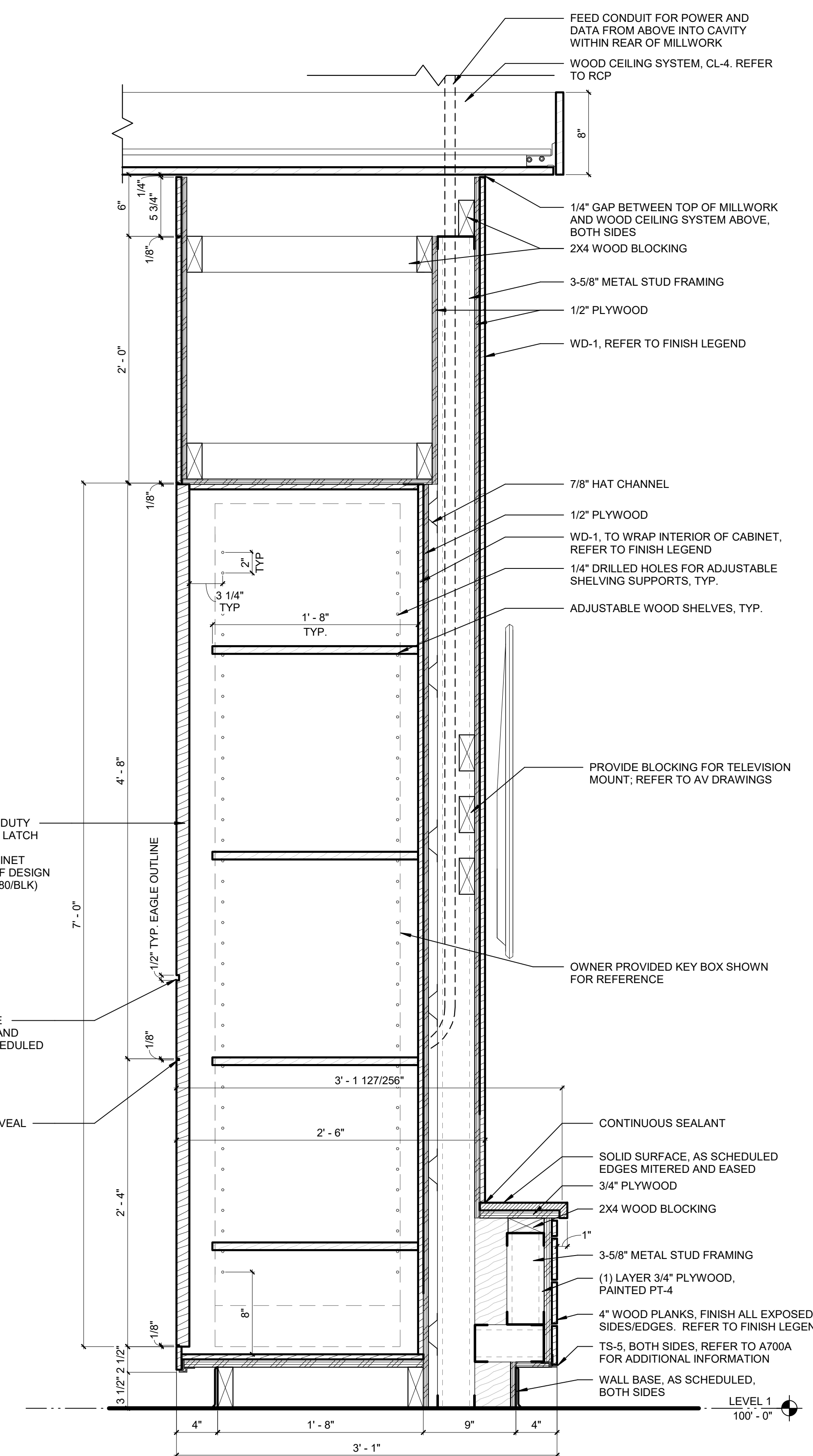
1/2" WIDTH CNC DEPRESSION,  
PAINTED PT-8

1/2" THICK EAGLE OUTLINE  
CNC'D AND PAINTED AS SCHEDULED

PROVIDE HEAVY DUTY  
MAGNETIC PUSH LATCH  
HARDWARE FOR  
FRAMELESS CABINET  
DOORS (BASIS OF DESIGN  
SUGATSUNE ML-80/BLK)

1/2" THICK EAGLE  
OUTLINE CNC'D AND  
PAINTED AS SCHEDULED

TYPICAL CNC REVEAL



FEED CONDUIT FOR POWER AND  
DATA FROM ABOVE INTO CAVITY  
WITHIN REAR OF MILLWORK  
WOOD CEILING SYSTEM, CL-4. REFER  
TO RCP  
1/4" GAP BETWEEN TOP OF MILLWORK  
AND WOOD CEILING SYSTEM ABOVE,  
BOTH SIDES  
2X4 WOOD BLOCKING  
3-5/8" METAL STUD FRAMING  
1/2" PLYWOOD  
WD-1, REFER TO FINISH LEGEND

7/8" HAT CHANNEL  
1/2" PLYWOOD  
WD-1, TO WRAP INTERIOR OF CABINET,  
REFER TO FINISH LEGEND  
1/4" DRILLED HOLES FOR ADJUSTABLE  
SHELVING SUPPORTS, TYP.  
ADJUSTABLE WOOD SHELVES, TYP.

PROVIDE BLOCKING FOR TELEVISION  
MOUNT; REFER TO AV DRAWINGS

OWNER PROVIDED KEY BOX SHOWN  
FOR REFERENCE

CONTINUOUS SEALANT  
SOLID SURFACE, AS SCHEDULED  
EDGES MITERED AND EASED  
3/4" PLYWOOD  
2X4 WOOD BLOCKING  
3-5/8" METAL STUD FRAMING  
(1) LAYER 3/4" PLYWOOD,  
PAINTED PT-4  
4" WOOD PLANKS, FINISH ALL EXPOSED  
SIDES/EDGES. REFER TO FINISH LEGEND  
TS-5, BOTH SIDES, REFER TO A700A  
FOR ADDITIONAL INFORMATION  
WALL BASE, AS SCHEDULED,  
BOTH SIDES

RECEPTION DESK 5  
1 1/2" = 1'-0" A1

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## MECHANICAL GENERAL NOTES:

- A. GENERAL NOTES APPLY TO ALL MECHANICAL SHEETS.  
B. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES.  
C. ALL WORK SHALL BE IN COMPLIANCE WITH THE TENANT/OWNER/CAMPUS DESIGN STANDARDS. CONTRACTOR SHOULD BE FAMILIAR WITH STANDARDS PRIOR TO BID.  
D. CONTRACTOR SHALL SPECIFICALLY LIST ANY EXCEPTIONS TO THE CONSTRUCTION DOCUMENTS IN THEIR BID.  
E. DRAWINGS ARE SCHEMATIC IN NATURE. EXACT LOCATIONS OF DUCTWORK, PIPING, AND EQUIPMENT, INCLUDING REQUIRED CLEARANCES, TO BE COORDINATED WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS.  
F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCOPE OF WORK SHOWN IN THE COMPLETE SET OF CONSTRUCTION DOCUMENTS, INCLUDING THE SPECIFICATIONS.  
G. THIS CONTRACTOR IS RESPONSIBLE FOR FIRE STOPPING AT ALL MECHANICAL PENETRATIONS OF FIRE AND SMOKE RATED STRUCTURES, FLOORS AND PARTITIONS. REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATION OF ALL RATED STRUCTURES.  
H. PROVIDE FIRE DAMPERS FOR ALL DUCT PENETRATIONS THRU FIRE RATED ASSEMBLIES. PROVIDE COMBINATION FIRE/SMOKE DAMPERS FOR ALL PENETRATIONS THRU SHAFT WALLS AND CORRIDOR WALLS.  
I. THIS CONTRACTOR IS TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQUIRED FOR INSTALLATION OF THE MECHANICAL SYSTEMS.  
J. COORDINATE CEILING DIFFUSERS AND GRILLES WITH LIGHTING FIXTURES. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.  
K. ALL SUPPLY, RETURN AND EXHAUST DUCT SIZES INDICATED ARE FREE AREA.  
L. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS PRIOR TO ORDERING MATERIALS AND/OR EQUIPMENT OR BEGINNING ANY WORK WITHOUT AUTHORIZATION. REPORT ANY DISCREPANCIES TO THE OWNER/ARCHITECT IMMEDIATELY.  
M. CONTRACTOR TO FIELD VERIFY ALL WALLS TO DECK AND PROVIDE TRANSFER BOOTS THRU ALL WALLS TO DECK PER DETAILS. THERMOSTATS TO BE MOUNTED 48" ABOVE FINISHED FLOOR LEVEL UNLESS NOTED OTHERWISE ON THE PLANS. CONTRACTOR TO VERIFY ALL THERMOSTATS LOCATIONS WITH ARCHITECT PRIOR TO ROUGH IN.  
N. ELECTRICAL CONTRACTOR TO PROVIDE J-BOX AND CONDUIT TO ACCESSIBLE CEILING FOR ALL T-STATS AND SENSORS. COORDINATE LOCATIONS OF T-STATS AND SENSORS WITH ELECTRICAL CONTRACTOR.  
O. ALL MEDIUM PRESSURE DUCTS (BOTH SQUARE AND ROUND) SHALL HAVE RADIUS ELBOWS (45 DEG. AND 90 DEG.).  
P. ALL MEDIUM PRESSURE AND LOW PRESSURE DUCT WORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED TO SMACNA STANDARDS (MOST RECENT) AND SEAL CLASS A. MEDIUM PRESSURE DUCT SHALL BE 4" W.G. AND LOW PRESSURE DUCT SHALL BE 2" W.G. MEDIUM PRESSURE DUCT SHALL BE LEAK TESTED IN ACCORDANCE WITH THE MOST CURRENT VCAA AIR DUCT LEAKAGE TEST MANUAL.  
Q. ALL SUPPLY AIR DUCT, OUTSIDE AIR INTAKE DUCT, AND GREASE EXHAUST DUCT SHALL BE INSULATED PER THE SPECIFICATIONS AND/OR SCHEDULES.  
R. INDIVIDUAL DUCT RUN-OUTS TO EACH DIFFUSER SHALL BE SIZED IN ACCORDANCE TO THE DIFFUSER NECK SIZE FOUND IN THE GRILLES-REGISTERS-DIFFUSERS SCHEDULE.  
S. PIPES AND DUCTS TO BE COORDINATED ON JOB WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS. PROVIDE AS MUCH AS POSSIBLE OFFSET DUCTS INTO JOIST SPACE FOR CLEARANCE WHERE SPACE ABOVE CEILING IS NOT SUFFICIENT FOR DUCTS TO CROSS OTHER DUCTS OR WORK OF OTHER TRADES.  
T. INSULATED FLEX DUCT IN THE MEDIUM PRESSURE SYSTEM SHALL BE UTILIZED AT INLET TO VAV BOX OR FAN POWERED BOX ONLY. LENGTH SHALL BE LIMITED TO AN OVERALL LENGTH OF TWO (2) FEET AND BE STRAIGHT RUN. INSULATED FLEX DUCT IN THE LOW PRESSURE SYSTEM SHALL BE LIMITED TO AN OVERALL LENGTH OF SIX (6) FEET WITH A MAXIMUM OF A 90 DEGREE CHANGE IN DIRECTION. SUPPORTS SHALL BE SADDLE BANDIED TO STRUCTURE. SUPPORTING FROM FIRE PROTECTION PIPING, ELECTRICAL CONDUIT OR CEILING SUPPORT WIRES IS NOT ACCEPTABLE.  
U. VAV BOXES AND FAN POWERED BOXES SHALL HAVE UNOBSTRUCTED CLEARANCE TO ALL VALVES AND ACCESS DOORS. SEE FAN POWERED BOX (FPB) AND/OR VARIABLE AIR VOLUME (VAV) BOX REQUIRED NATIONAL ELECTRIC CODE (NEC) CLEARANCE DETAILS FOR ADDITIONAL INFORMATION.  
V. PROVIDE TEMPORARY HIGH EFFICIENCY FILTER MEDIA ON ALL RETURN AIR AND EXHAUST OPENINGS AT BEGINNING OF PROJECT AND REPLACED AT TWO (2) WEEK INTERVALS UNTIL PROJECT COMPLETION AT WHICH TIME THE FILTER MEDIA SHALL BE REMOVED.  
W. CONTRACTOR SHALL PROVIDE YOUNG CONCEALED DAMPER REGULATORS WITH A DAMPER CABLE CONTROL KIT EQUAL TO BOWDEN MODEL 270-896P FOR ALL GYPSUM BOARD APPLICATIONS. COORDINATE SHAFT SIZE OF DAMPER WITH KIT FOR PROPER COMPATIBILITY. REFER TO ARCHITECTURAL DRAWINGS FOR ALL LOCATIONS INDICATED WITH GYPSUM BOARD CEILING AND COORDINATE WITH ARCHITECT FOR EXACT LOCATION OF INSTALLATION.  
X. CONNECTIONS BETWEEN FERROUS AND NON-FERROUS PIPING SYSTEMS, AND BETWEEN FERROUS PIPING SYSTEMS AND NON-FERROUS CONNECTIONS TO EQUIPMENT SHALL BE MADE BY THE USE OF DIELECTRIC UNIONS, COUPLINGS OR FLANGES AS MANUFACTURED BY CRANE, EPCO, F.M. MALONEY, UNIVERSAL MANUFACTURING CO. MATERIALS USED FOR INSULATION, ACOUSTICAL LININGS, ADHESIVES, JACKETS AND COATINGS, AND COMBINATIONS OF THESE MATERIALS SHALL EACH HAVE A FLAME SPREAD RATING OF 25 OR LESS, AND A SMOKE DEVELOPED RATING OF 50 OR LESS, AS DETERMINED BY AN INDEPENDENT TESTING LABORATORY IN ACCORDANCE WITH NFPA-255.  
Z. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THAT THE EXISTING DUCTWORK SIZE IS THE SAME AS INDICATED ON THE PLANS AND IS ADEQUATE FOR NO MORE THAN 0.30 OF STATIC PRESSURE PER 100 FEET FOR MEDIUM PRESSURE DUCTWORK BASED ON THE CFMS INDICATED ON THE PLANS AND THAT EXISTING DIFFUSER NECK SIZES MEET THE REQUIREMENTS AS INDICATED FOR NEW DIFFUSERS.  
AA. ALL EXISTING DUCTWORK SHALL BE FIELD VERIFIED TO BE INSULATED AND IN GOOD CONDITION, ANY TORN, DAMAGED OR MISSING INSULATION WILL BE REPLACED. EXISTING CONTROLS SHALL BE CONFIRMED TO BE IN WORKING CONDITION.  
AB. FOR AHUS, MECHANICAL CONTRACTOR SHALL INSTALL THE DUCTMOUNTED SMOKE DETECTORS AND DIV 26 SHALL FURNISH AND CONNECT FOR SHUT DOWN OF UNIT AND OTHER CODE REQUIREMENTS.

## BASE DESIGN CRITERIA LIST

OUTDOOR DESIGN CONDITIONS FOR CITY, STATE  
SUMMER:  
DRY BULB TEMPERATURE = 102 DEG F  
WET BULB TEMPERATURE = 75 DEG F  
WINTER:  
DRY BULB TEMPERATURE = 10 DEG F

INDOOR DESIGN CONDITIONS FOR CITY, STATE  
SUMMER:  
DRY BULB TEMPERATURE = 75 DEG F  
WET BULB TEMPERATURE = 63 DEG F  
HUMIDITY = 50%  
WINTER:  
DRY BULB TEMPERATURE = 70 DEG F  
HUMIDITY = NO MINIMUM

## MECHANICAL APPLICABLE CODES

- 2021 INTERNATIONAL MECHANICAL CODE (IMC)
- 2021 INTERNATIONAL ENERGY CONSERVATION (IECC)

## MECHANICAL PIPING, FITTINGS, & JOINTS SCHEDULE

APPLICATION	MATERIAL	FITTINGS	JOINTS
HEATING WATER	UNDERGROUND	PREINSULATED	WELDED
	ABOVEGROUND	COPPER	BRAZED
	2" AND SMALLER	SCHEDULE 40 BLACK STEEL	WROUGHT-COPPER
			*PRESS FITTINGS ACCEPTED
			MALEABLE-IRON
			THREADED
	2-1/2" THRU 10"	SCHEDULE 40 BLACK STEEL	WROUGHT STEEL
			WELDED FLANGE
CHILLED/ CONDENSER WATER	12" AND LARGER	SCHEDULE 30 BLACK STEEL	GROOVED
			GROOVED
	12" AND LARGER	SCHEDULE 30 BLACK STEEL	MECHANICAL JOINT COUPLINGS
			GROOVED TYPE COUPLINGS AND FITTINGS MAY NOT BE USED AT RISERS OR CONCEALED AREAS
			GROOVED
			GROOVED
	2-1/2" THRU 10"	SCHEDULE 40 BLACK STEEL	WROUGHT STEEL
			WELDED FLANGE
			FLANGE
			MECHANICALLY GROOVED-END FITTINGS AND COUPLINGS MAY BE USED IN MECH ROOM ONLY
CONDENSATE	UNDERGROUND	PREINSULATED	WELDED
	OUTSIDE BUILDING FOOTPRINT	COPPER	BRAZED
	WITHIN BUILDING FOOTPRINT	COPPER	BRAZED
	ABOVEGROUND	COPPER	WROUGHT-COPPER
			*PRESS FITTINGS ACCEPTED
			MALEABLE-IRON
			THREADED
REFRIGERANT	2-1/2" THRU 10"	SCHEDULE 40 BLACK STEEL	WROUGHT STEEL
			WELDED FLANGE
	12" AND LARGER	SCHEDULE 30 BLACK STEEL	GROOVED
			GROOVED
			MECHANICAL JOINT COUPLINGS
			GROOVED TYPE COUPLINGS AND FITTINGS MAY NOT BE USED AT RISERS OR CONCEALED AREAS
	2" AND SMALLER	COPPER	WROUGHT COPPER
			SOLDERED
			WROUGHT COPPER
			BRAZED

1. \*SHARKBITE IS NOT ACCEPTED. ACCEPTABLE PRESS FITTINGS MANUFACTURER ARE: NIBCO, VIEGA-PROGRESS, VIEGA MEGAPRESS, PARKER-ZOOMLOCK (REFRIGERANT PIPING ONLY).  
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.  
3. NOT ALL PIPE TYPES MAY BE USED. REFER TO FLOOR PLANS FOR FURTHER DETAILS.

## MECHANICAL INSULATION SCHEDULE

APPLICATION	INSULATION		INSULATION FINISH		OUTDOOR
	INSULATION TYPE	THICKNESS	INDOOR CONCEALED	INDOOR EXPOSED INCL. MECH ROOMS	
CHILLED WATER SUPPLY & RETURN PIPING					
INDOOR:					
1-1/4" & SMALLER:	FIBERGLASS-6i	1"	8F	5F	NA
	CELLULAR FOAM-4i	1"	0F	0F	NA
1-1/2" & LARGER:	FIBERGLASS-6i	1-1/2"	8F	5F	NA
	CELLULAR FOAM-4i	1-1/2"	0F	0F	NA
OUTDOOR:					
1-1/4" & SMALLER:	FIBERGLASS-6i	1"	NA	NA	3F
	CELLULAR FOAM-4i	1"	NA	NA	9F
1-1/2" & LARGER:	FIBERGLASS-6i	2"	NA	NA	3F
	CELLULAR FOAM-4i	2"	NA	NA	9F
HEATING WATER SUPPLY & RETURN					
INDOOR 1-1/4" & SMALLER:	FIBERGLASS-6i	1-1/2"	8F	5F	3F
INDOOR 1-1/2" & LARGER:	FIBERGLASS-6i	2"	8F	5F	3F
OUTDOOR - ALL:	FIBERGLASS-6i	3"	NA	NA	3F
CONDENSER WATER SUPPLY & RETURN PIPING					
INDOOR W/ WATER SIDE ECONOMIZER:	FIBERGLASS-6i	1-1/2"	8F	5F	NA
INDOOR W/O WATER SIDE ECONOMIZER:	NONE	0	NA	PAINT	NA
STEAM & STEAM CONDENSATE:	MINERAL-FIBER-7i	4-1/2"	10F	10F	NA
OUTDOOR:	FIBERGLASS-6i	2"	NA	NA	3F
REFRIGERANT SUCTION AND/OR HOT-GAS LINE PIPING					
INDOOR:	CELLULAR FOAM-4i	1"	0F	0F	NA
OUTDOOR:	CELLULAR FOAM-4i	1"	NA	NA	9F
				REFRIGERANT LIQUID LINES SO NOT NEED TO BE INSULATED	
MISCELLANEOUS PIPING					
AIR COND. CONDENSATION DRAIN PIPING:	CELLULAR FOAM-4i	1/2"	0F	0F	9F
DUCTWORK					
CONCEALED SUPPLY & OA DUCTS:	FIBERGLASS 3i	2"	6F	NA	NA
EXPOSED SUPPLY DUCTS AND OUTSIDE AIR DUCTS IN PUBLIC AREAS:	FIBERGLASS 5i	1.5"	NA	0F	NA
	FIBERGLASS 2i	2"	NA	6F	NA
EXPOSED SUPPLY/OA DUCTS, AND PLENUMS IN MECH ROOMS/ BOH AREAS:	FIBERGLASS 2i	1"	NA	6F	NA
SUPPLY, RETURN AND OUTSIDE AIR DUCTS LOCATED OUTDOORS:	FIBERGLASS 2i & 5i	TOTAL R-VALUE OF R-8	NA	NA	7F
KITCHEN HOOD EXHAUST:	FIREMASTER FASTWRAP	2 LAYERS OF 1-1/2"	NA	NA	NA



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### KEYED NOTES - SHEET iM201A

- 1 CHILLED WATER FAN COIL UNIT TO BE SUSPENDED FROM STRUCTURE WITH ISOLATION SPRINGS. PROVIDE WITH ONE HARTELL CONDENSATE PUMP A3X-115 FOR THE PRIMARY DRAIN AND PROVIDE LEAK DETECTION EQUAL TO LIEBERT (24V) IN SECONDARY PAN. PROVIDE A GALVANIZED SHEET METAL SECONDARY DRAIN PAN THAT IS A MINIMUM OF 3" LARGER (ON EACH SIDE) THAN ANY DIMENSION OF THE UNIT AND MUST EXTEND UNDER THE CONDENSATE PUMP. REFER TO DETAIL #7 ON SHEET iM502 FOR MOTORIZED DAMPER AND MANUAL DAMPER TO BE PROVIDED AT EACH FCU WITH OUTSIDE AIR DUCTED TO IT. ROUTE FAN COIL UNIT CONDENSATE PIPING TO NEAREST FLOOR DRAIN OR JANITOR'S CLOSET. REFER TO SHEET M-001 FOR CONDENSATE PIPE SIZING.
- 2 CHILLED WATER FAN COIL UNIT TO BE SUSPENDED FROM STRUCTURE WITH ISOLATION SPRINGS. PROVIDE WITH ONE HARTELL CONDENSATE PUMP A3X-115 FOR THE PRIMARY DRAIN AND PROVIDE LEAK DETECTION EQUAL TO LIEBERT (24V) IN SECONDARY PAN. PROVIDE A GALVANIZED SHEET METAL SECONDARY DRAIN PAN THAT IS A MINIMUM OF 3" LARGER (ON EACH SIDE) THAN ANY DIMENSION OF THE UNIT AND MUST EXTEND UNDER THE CONDENSATE PUMP. REFER TO DETAIL #8 ON SHEET iM502 FOR MOTORIZED DAMPER AND MANUAL DAMPER TO BE PROVIDED AT EACH FCU WITH OUTSIDE AIR DUCTED TO IT. ROUTE FAN COIL UNIT CONDENSATE PIPING TO NEAREST FLOOR DRAIN OR JANITOR'S CLOSET. REFER TO SHEET M-001 FOR CONDENSATE PIPE SIZING.

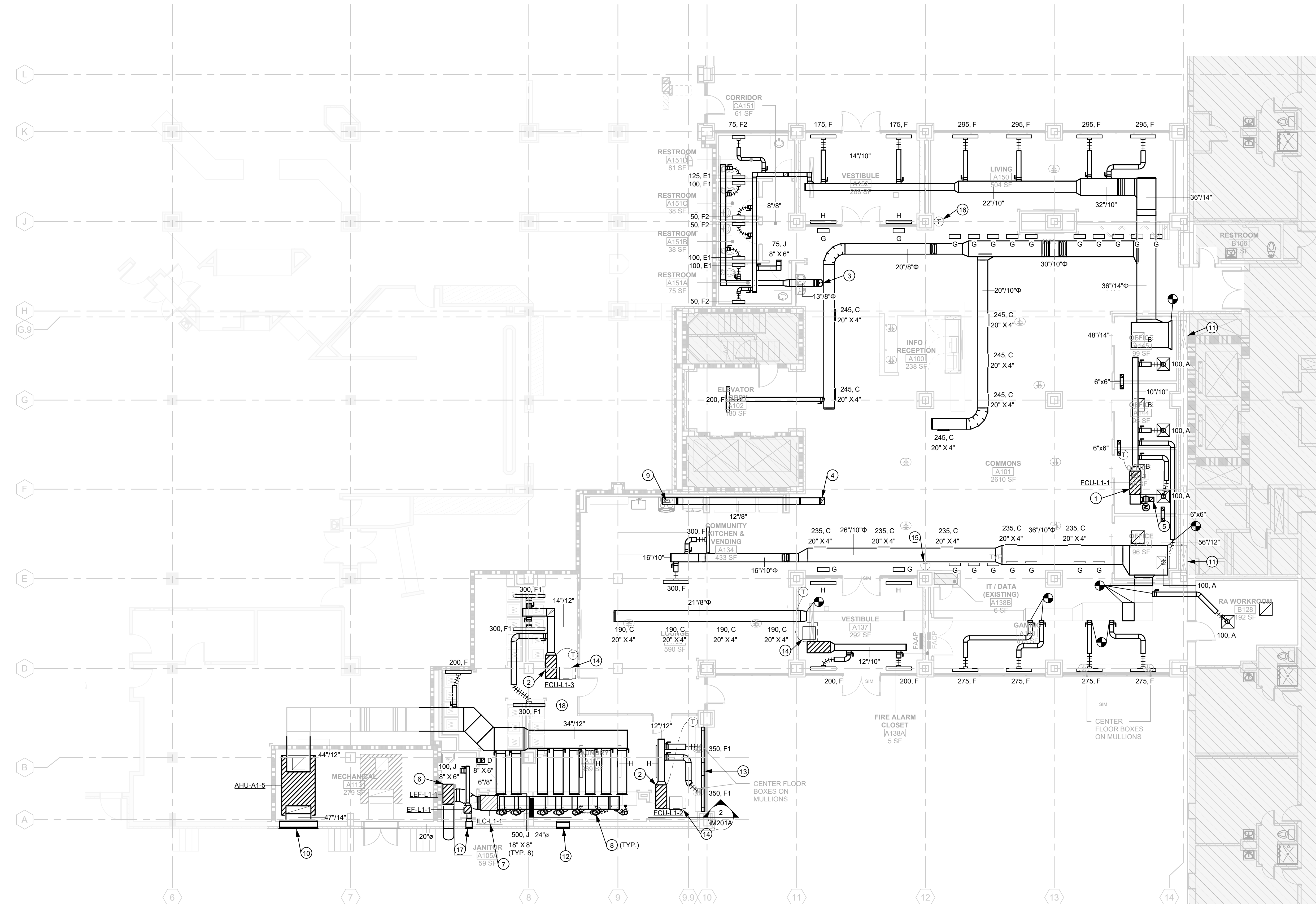
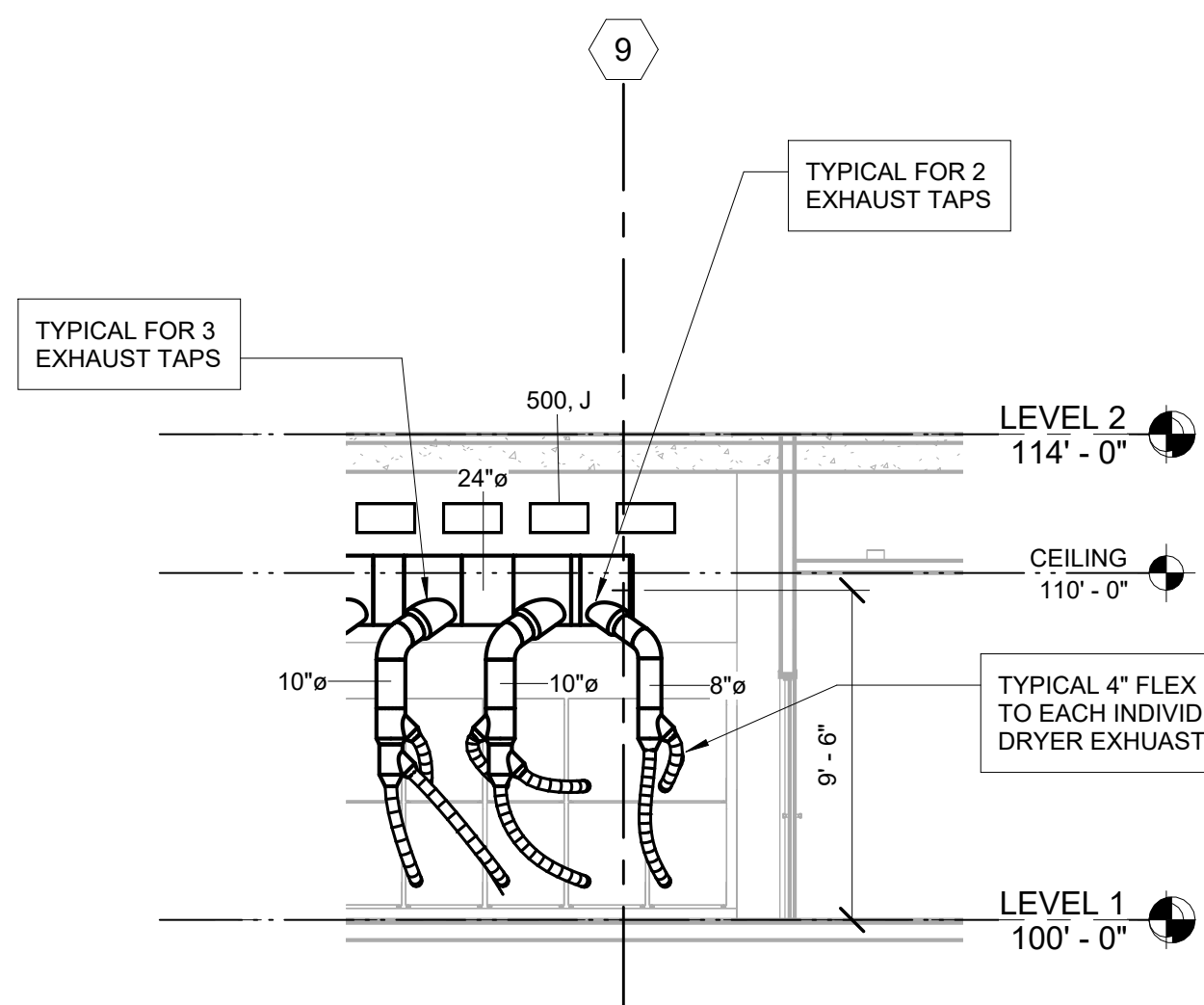
### KEYED NOTES - SHEET iM201A

- 3 12"X8" FLAT OVAL DUCT UP TO TOILET EXHAUST FAN, TEF-L-1-1, ON THE ROOF. REFER TO FAN SCHEDULE FOR ADDITIONAL INFORMATION.
- 4 12"X8" RECTANGULAR GREASE DUCT UP TO GREASE EXHAUST FAN, GEF-L-1-1, ON THE ROOF. REFER TO FAN SCHEDULE FOR ADDITIONAL INFORMATION.
- 5 8"X8" DUCT UP TO GRAVITY VENTILATOR ON THE ROOF. GRAVITY VENTILATOR TO BE EQUAL TO COOK PR-8.
- 6 INLINE EXHAUST FAN TO BE MOUNTED FROM STRUCTURE ABOVE. COORDINATE FAN MOUNTING HEIGHT WITH THE HEIGHT OF EXHAUST DUCT RUN. MIDLINE OF EXHAUST DUCT RUN TO BE 9'-0". OUTLET DUCT FROM EXHAUST FAN IS TO PENETRATE EXTERIOR WALL AND TERMINATE AFTER A 45-DEGREE ELBOW. NO BIRD SCREEN OR WIRE MESH WILL BE ALLOWED ON THE END OF EXHAUST DUCT TERMINATION.
- 7 INLINE LINT COLLECTOR TO BE INSTALLED IN DRYER EXHAUST RUN AS MAIN MEANS OF CAPTURING LINT FROM THE DRYERS. LINT COLLECTOR TO BE EQUAL TO LF SYSTEM iLC24. LINT COLLECTOR TO BE INSTALLED SO THAT THE ACCESS DOOR IS FACING THE FLOOR FOR EASE OF CLEANING AND MAINTENANCE.
- 8 REFER TO TYPICAL DRYER EXHAUST CONNECTION SECTION VIEW FOR ADDITIONAL CONNECTION INFORMATION. (TYPICAL)
- 9 12"X8" DUCT TO TAP INTO EXHAUST DUCT COLLAR LOCATED AT THE TOP OF THE GREASE EXHAUST HOOD.
- 10 PROVIDE A 72"X32" STATIONARY LOUVER EQUAL TO RUSKIN ELF375DX. COORDINATE EXACT LOUVER AND LOUVER FINISH WITH THE ARCHITECT.

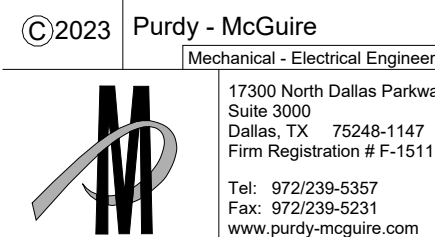
### KEYED NOTES - SHEET iM201A

- 11 DUCT BRANCH SERVED BY A MULTI-ZONE UNIT LOCATED IN THE BASEMENT. MECHANICAL CONTRACTOR TO REBALANCE DUCT BRANCH FOR NEW CFM SHOWN. NEW CFM IS THE SUM OF ALL THE DIFFUSERS SERVED BY THE DUCT RUN.
- 12 PROVIDE A 24"X14" STATIONARY LOUVER EQUAL TO RUSKIN ELF375DX FOR COMBUSTION AIR. COORDINATE EXACT LOUVER AND LOUVER FINISH WITH THE ARCHITECT.
- 13 PROVIDE A CONTINUOUS 2.5" SLOT WITH SUPPLY DIFFUSERS PLACED IN SLOT AS SHOWN. SLOT TO HAVE A CONTINUOUS LOOK AND PROVIDED WITH A MUDD AND PAINT TYPE BORDER. GENERAL CONTRACTOR TO COORDINATE SCOPE OF WORK TO MUDD AND PAINT SLOT.
- 14 ACCESS PANEL TO BE PLACED IN GYP-BOARD CEILING AS SHOWN. COORDINATE TYPE OF ACCESS PANEL WITH THE ARCHITECT.
- 15 THERMOSTAT TO CONTROL SOUTHERN BRANCH SERVING THE LOBBY. COORDINATE WHICH ZONE OF THE MULTI-ZONE UNIT THIS BRANCH IS ASSOCIATED TO.
- 16 THERMOSTAT TO CONTROL NORTHERN BRANCH SERVING THE LOBBY. COORDINATE WHICH ZONE OF THE MULTI-ZONE UNIT THIS BRANCH IS ASSOCIATED TO.
- 17 PROVIDE A 12"X12" STATIONARY LOUVER EQUAL TO RUSKIN ELF375DX FOR COMBUSTION AIR. COORDINATE EXACT LOUVER AND LOUVER FINISH WITH THE ARCHITECT.
- 18 PROPOSED LOCATION OF LAUNDRY ROOM PRESSURE SENSOR.

2 TYPICAL DRYER EXHAUST CONNECTION  
3/16" = 1'-0"



1 LEVEL 1 MECHANICAL PLAN - LOBBY  
1/8" = 1'-0"



THE JOB NO.  
PROJECT MGR  
MECHANICAL  
PLUMBING  
ELECTRICAL  
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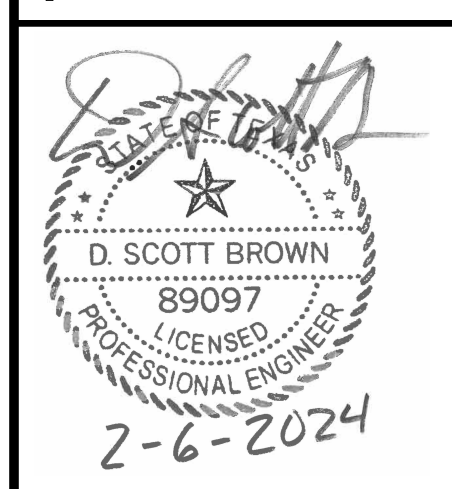
23027333  
SCOTT BROWN, KRISTIN BURKE  
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LEVEL 1 MECHANICAL  
PLAN (LOBBY,  
RESTROOMS, &  
LAUNDRY)

TreanorHL NO. HE0569 2302.01

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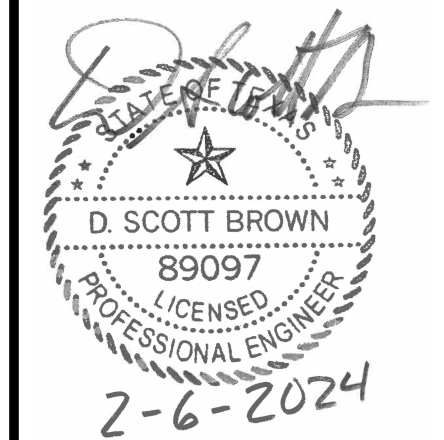
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KERR HALL INTERIOR RENOVATION



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iM211A

LEVEL 1 MECHANICAL  
PIPING PLAN (LOBBY,  
RESTROOMS, &  
LAUNDRY)

TreanorHL NO. HE0569.2302.01

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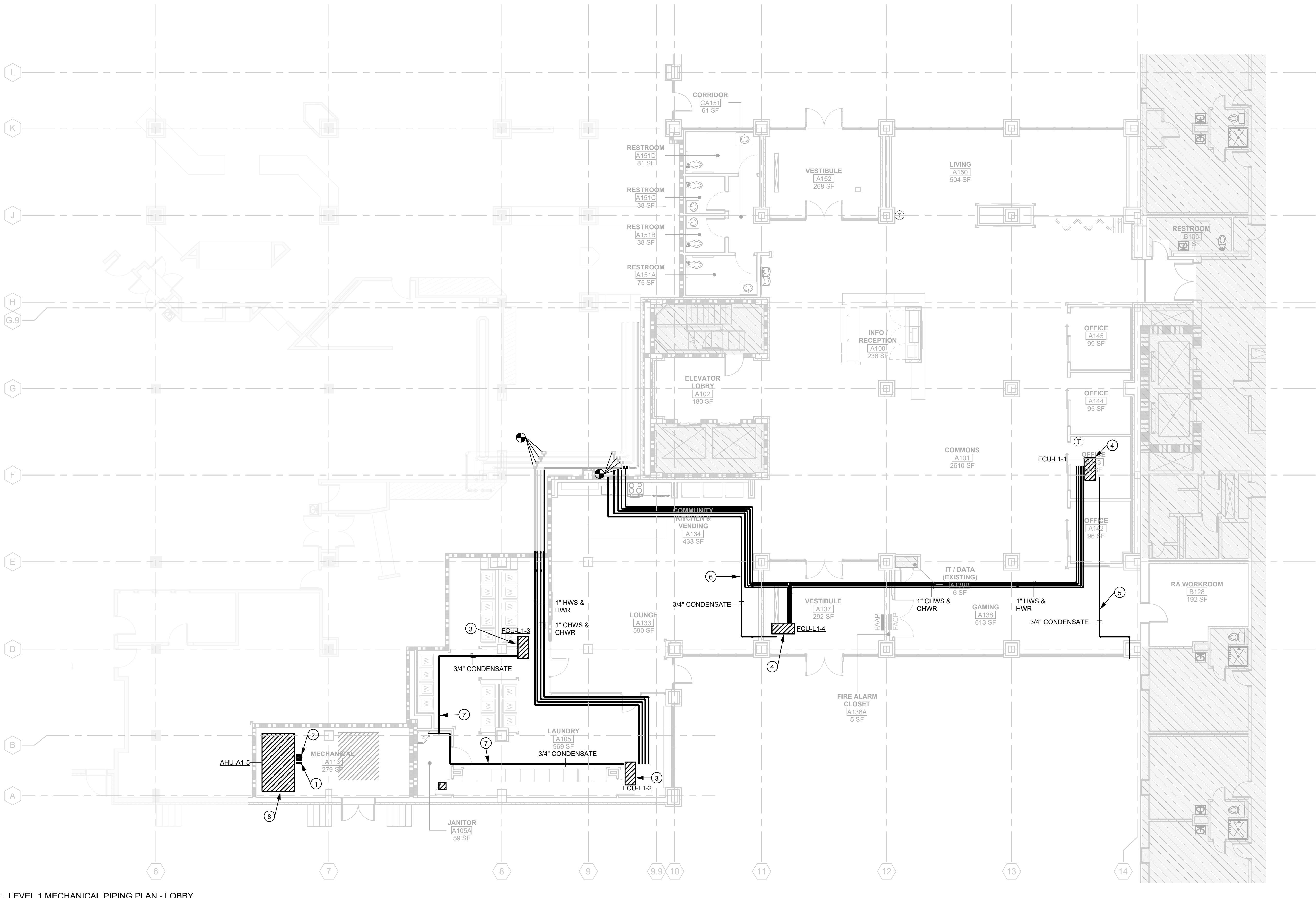
4. CONNECT 3/4" CHWHS AND CHWR AND 3/4" HWS AND HWRT TO FAN COIL UNIT FROM NEW CHILLED AND HOT WATER LINES.

5. PROPOSED CONDENSATE PIPE ROUTING. CONFIRM WHETHER CONDENSATE CAPABILITY CAN BE MAINTAINED OUTSIDE ONCE LANDSCAPING. ROUTE CONDENSATE TO NEAREST MOP SINK, HUB DRAIN, OR FLOOR DRAIN IF CONDENSATE LINE IS NOT ABLE TO ROUTE TO THE OUTSIDE.


6. PROPOSED CONDENSATE PIPE ROUTING. ROUTE CONDENSATE DOWN THE WALL TO HUB DRAIN LOCATED AT THE SINK.

7. PROPOSED CONDENSATE PIPE ROUTING. ROUTE CONDENSATE TO MOP SINK LOCATED IN JANITOR CLOSET.

8. ROUTE RHHV CONDENSATE ROUTING TO NEAREST FLOOR DRAIN OR MOP SINK.



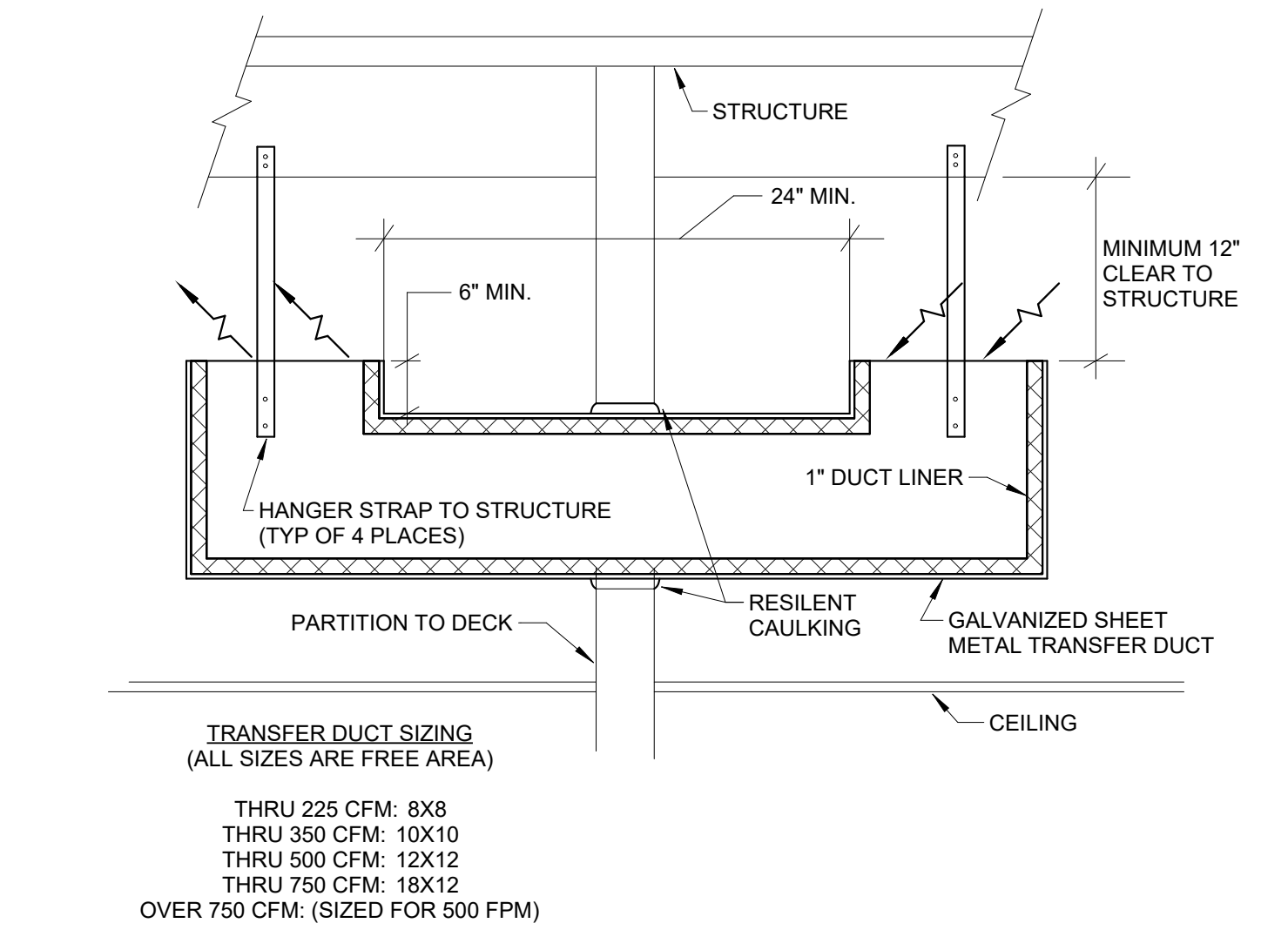
1 LEVEL 1 MECHANICAL PIPING PLAN - LOBBY  
1/8" = 1'-0"

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Mechanical - Electrical Engineers  
  
17300 North Dallas Parkway  
Suite 3000  
Dallas, TX 75248-1147  
Firm Registration # F-1511  
Tel: 972/239-5357  
Fax: 972/239-5231  
[www.purdy-mcguire.com](http://www.purdy-mcguire.com)

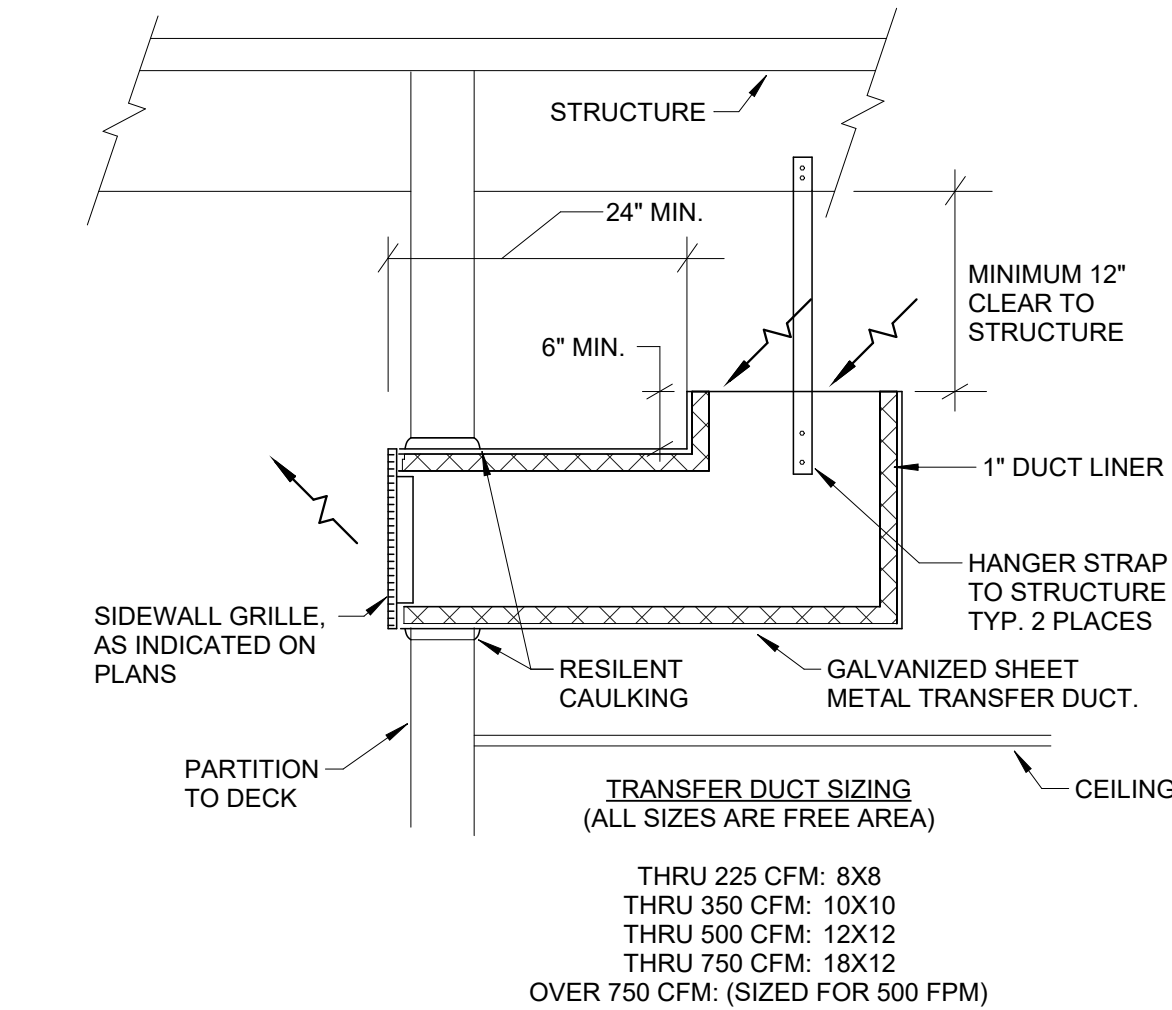
PMI JOB NO. 29037.003  
PROJECT MGR. SCOTT BROWN, KRISTIN BURKE  
MECHANICAL MITCHELL, HENTON  
PLUMBING CHRIS WOODYARD  
ELECTRICAL KYLE ROURKE  
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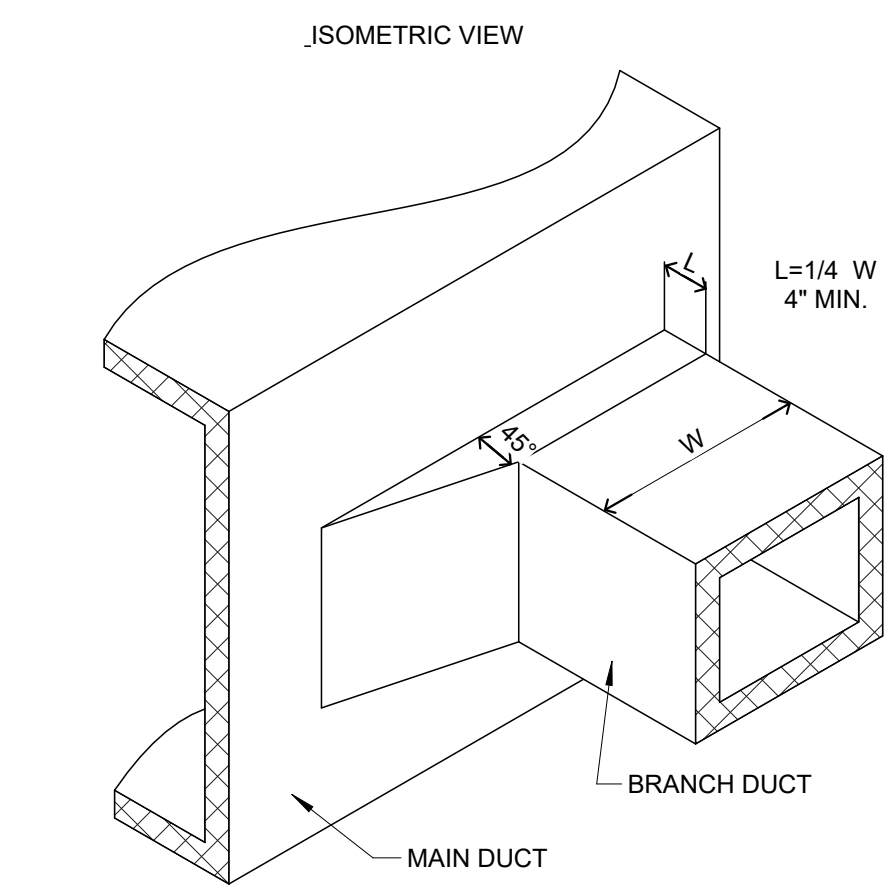
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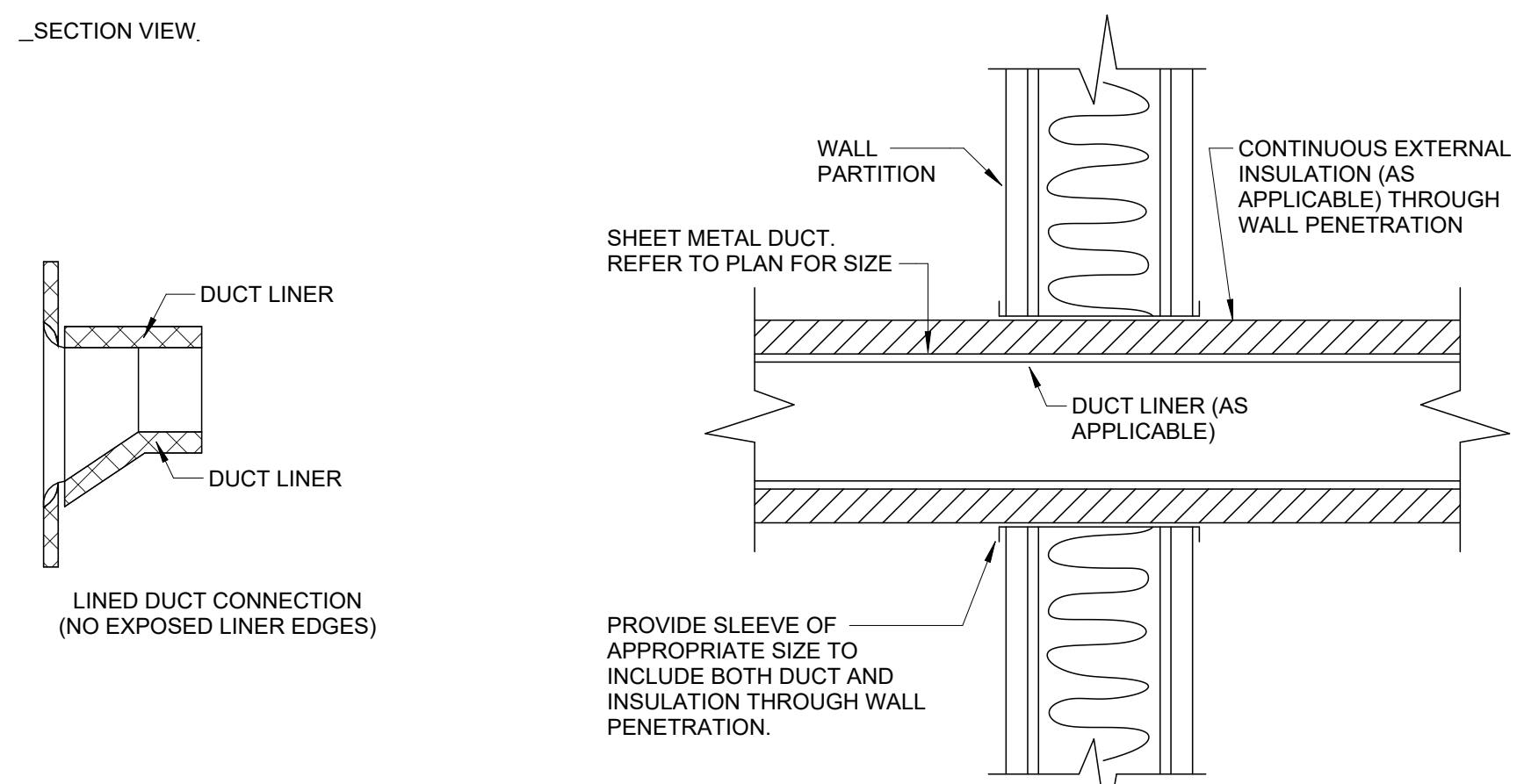
1 RETURN AIR TRANSFER BOOT U DETAIL  
NOT TO SCALE



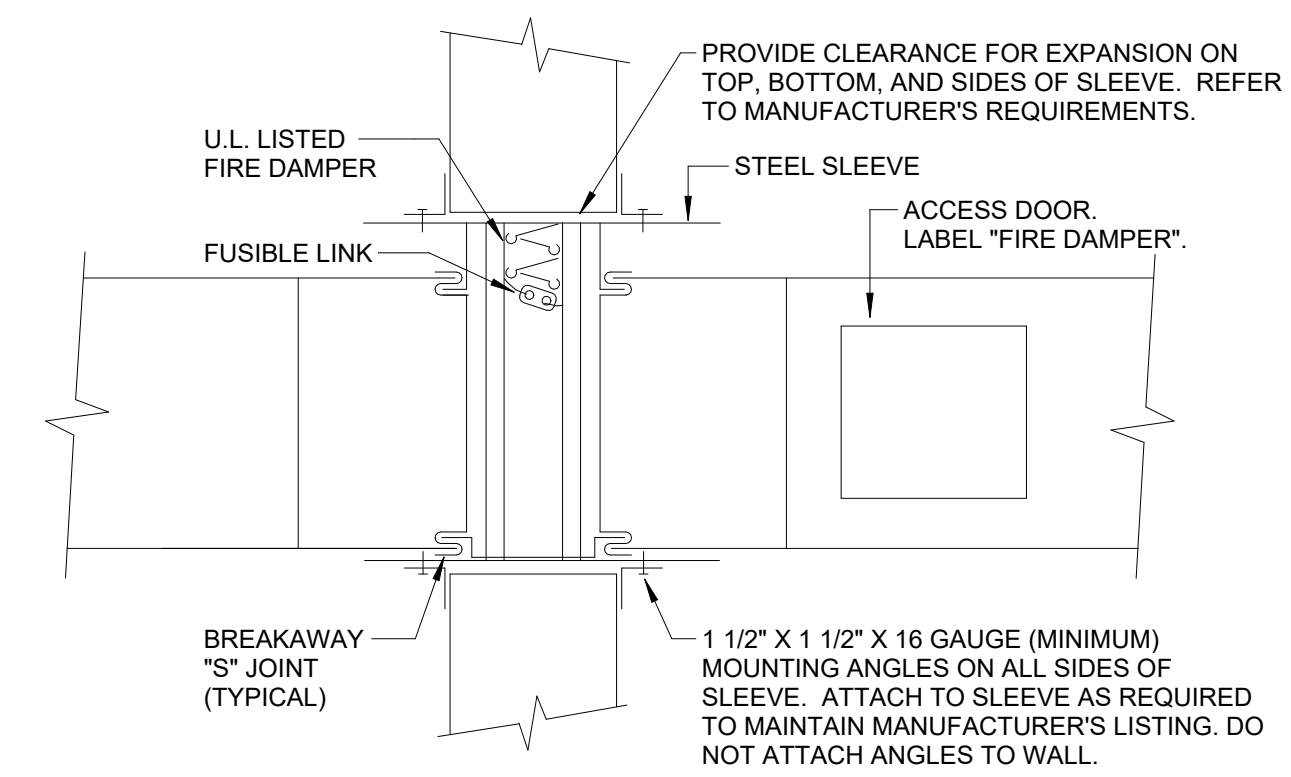
2 RETURN AIR TRANSFER BOOT L DETAIL  
NOT TO SCALE



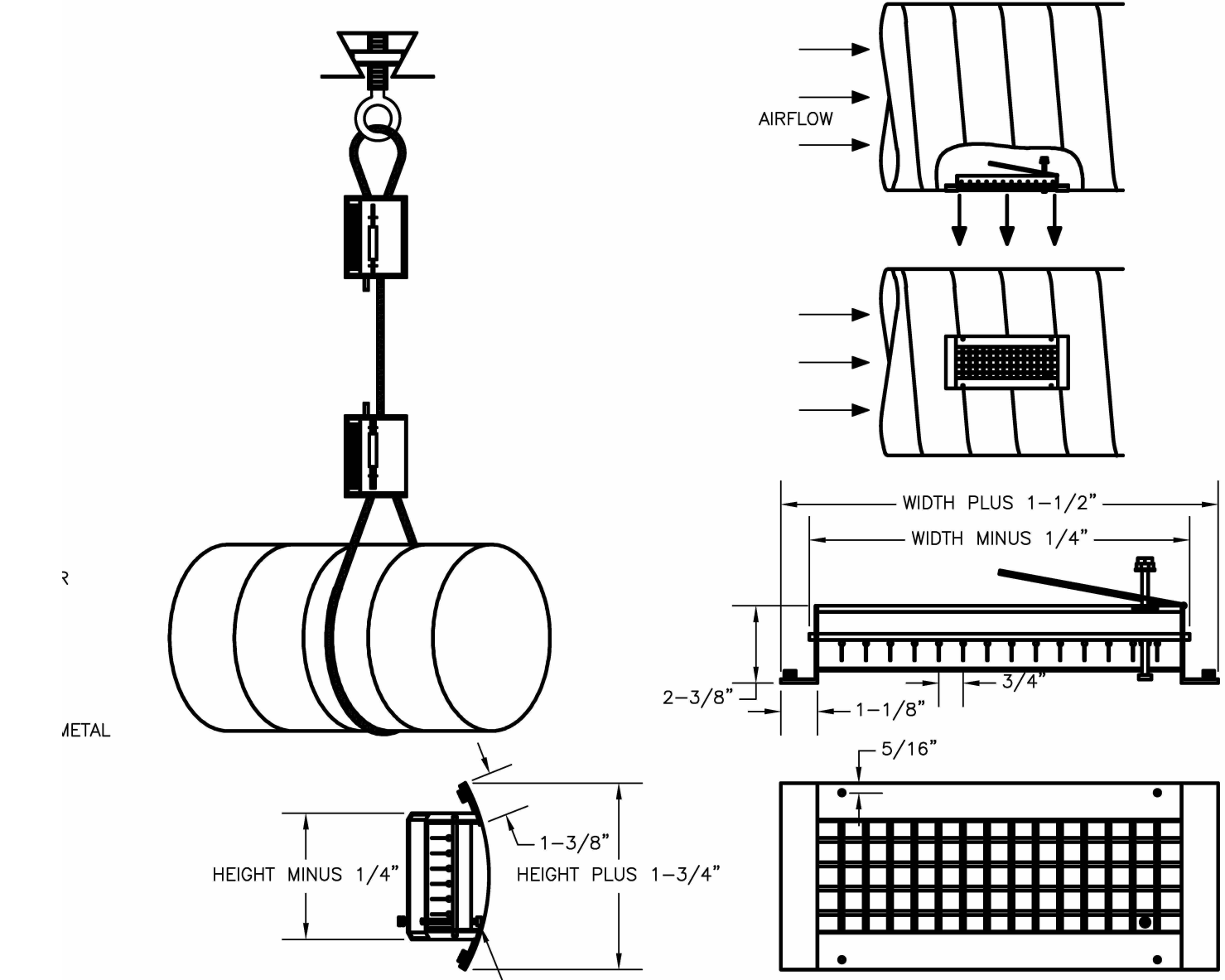
3 45 DEGREE BRANCH DUCT TAP  
NOT TO SCALE



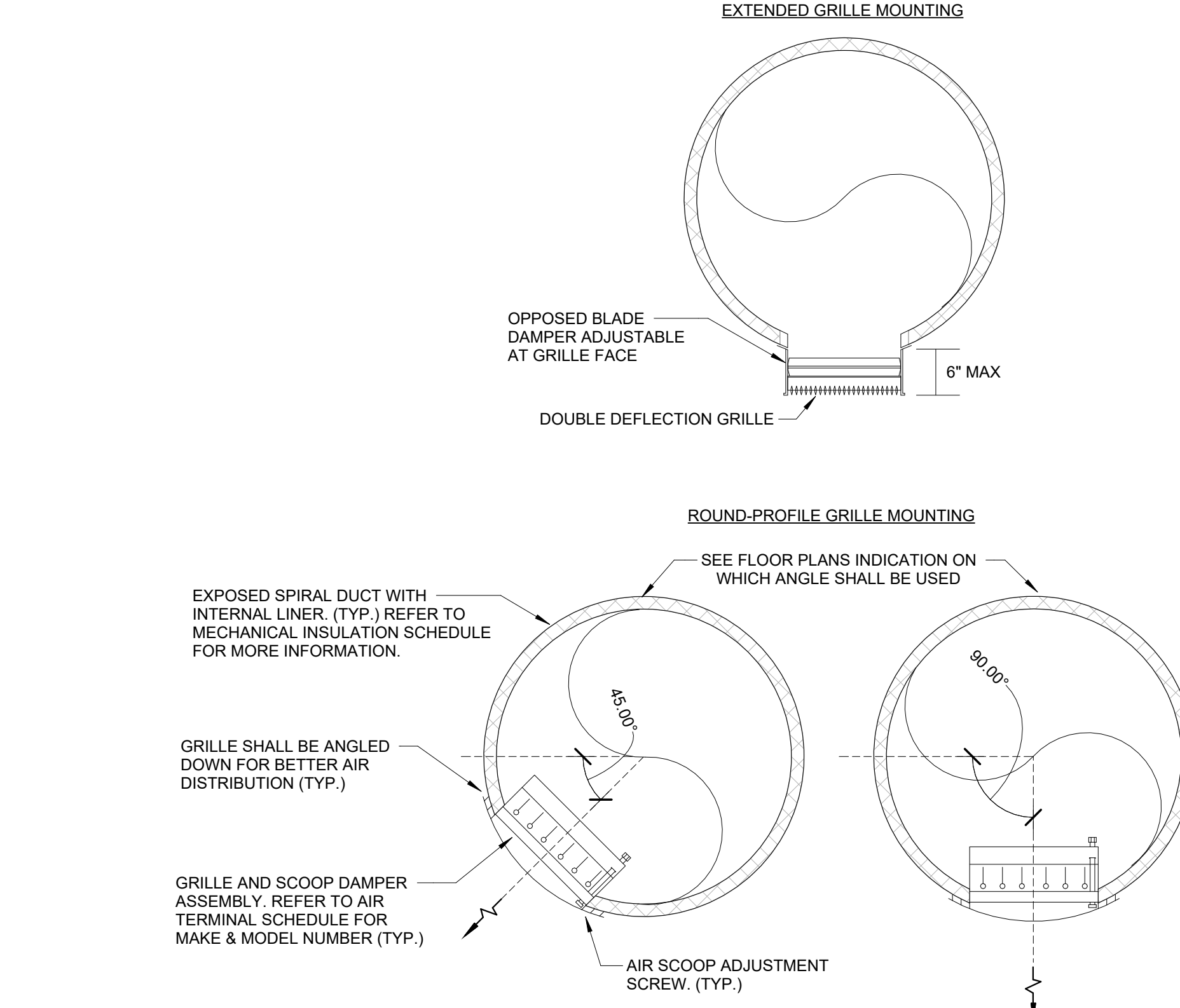
4 STANDARD DUCT WALL PENETRATION DETAIL  
NOT TO SCALE



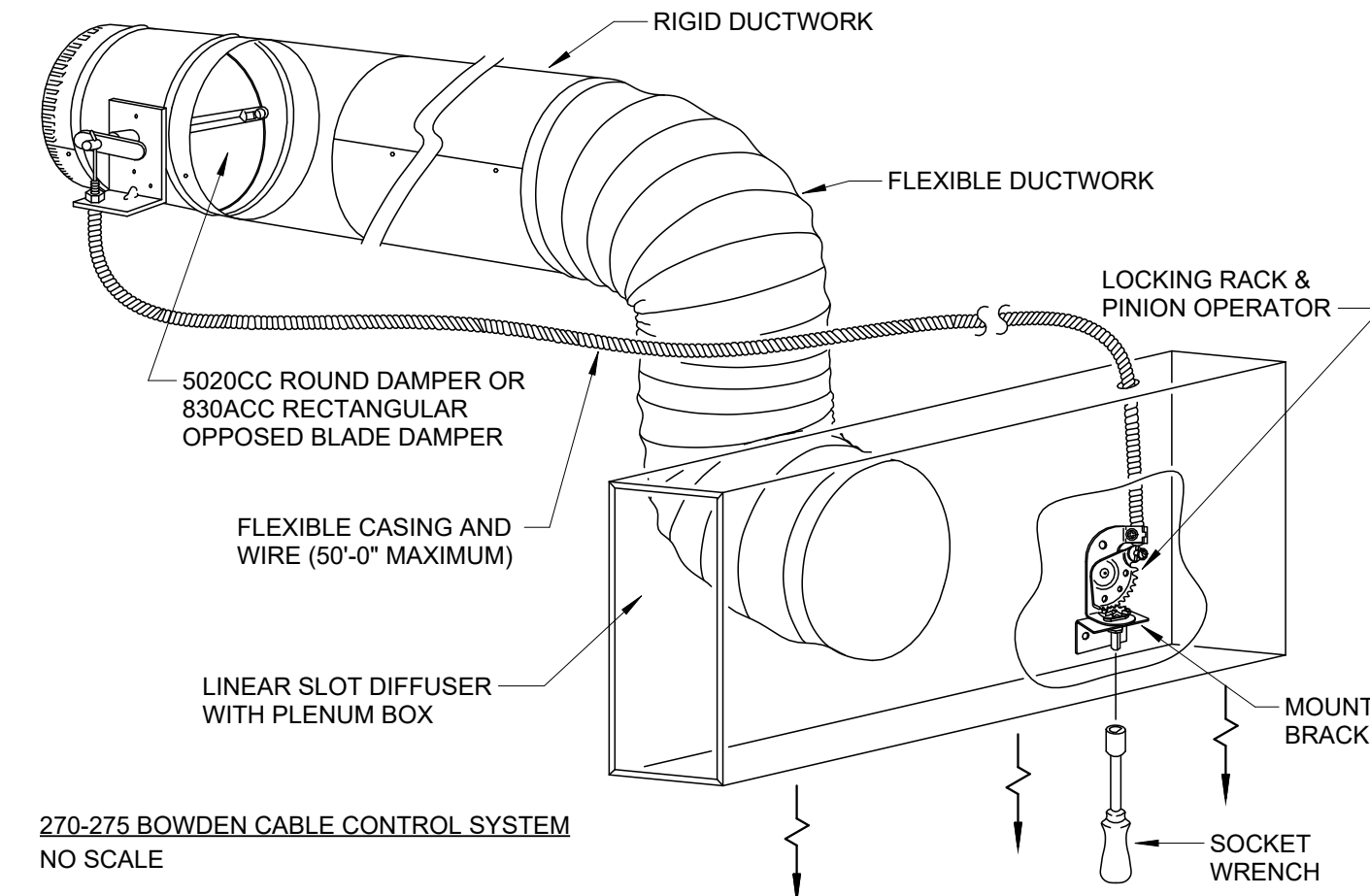
5 VERTICAL FIRE DAMPER  
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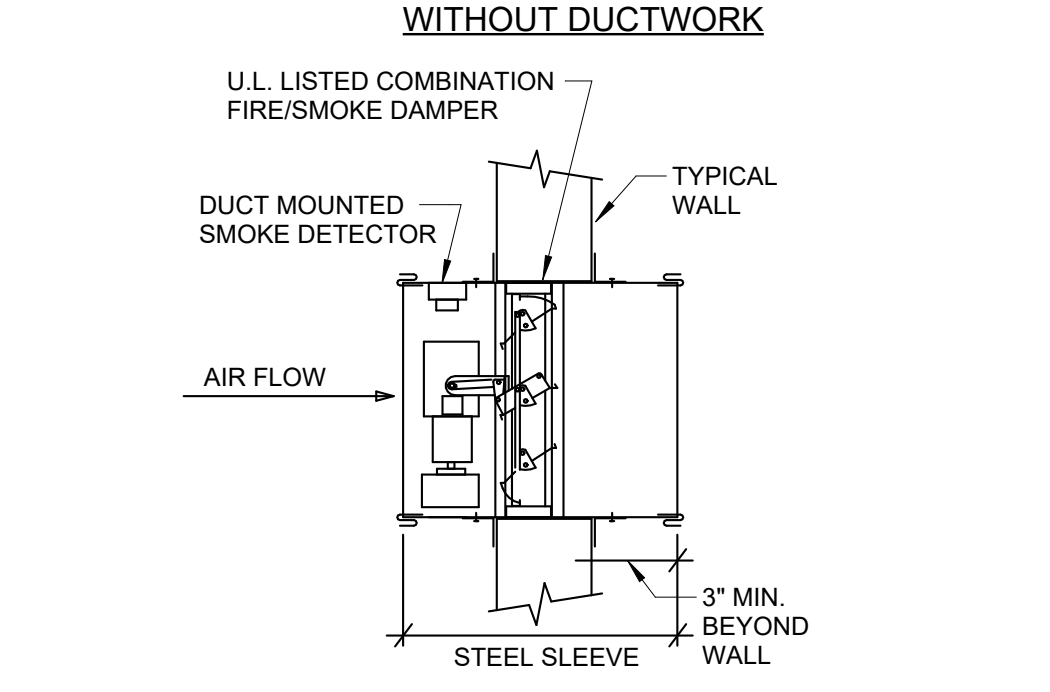
6 SPIRAL GRILLE DETAIL  
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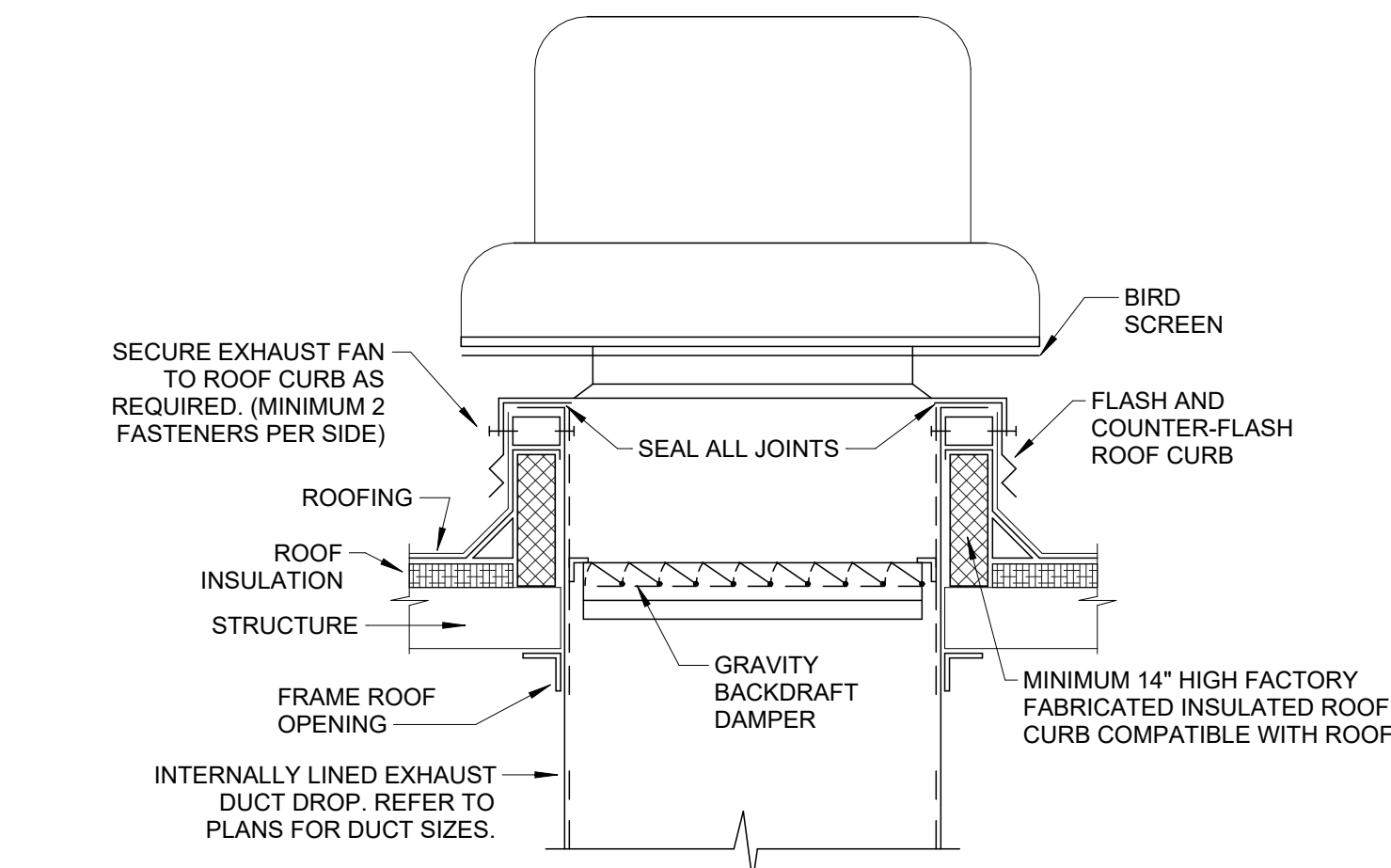
7 EXPOSED SPIRAL DUCT-MOUNTED DIFFUSER SECTION  
NOT TO SCALE



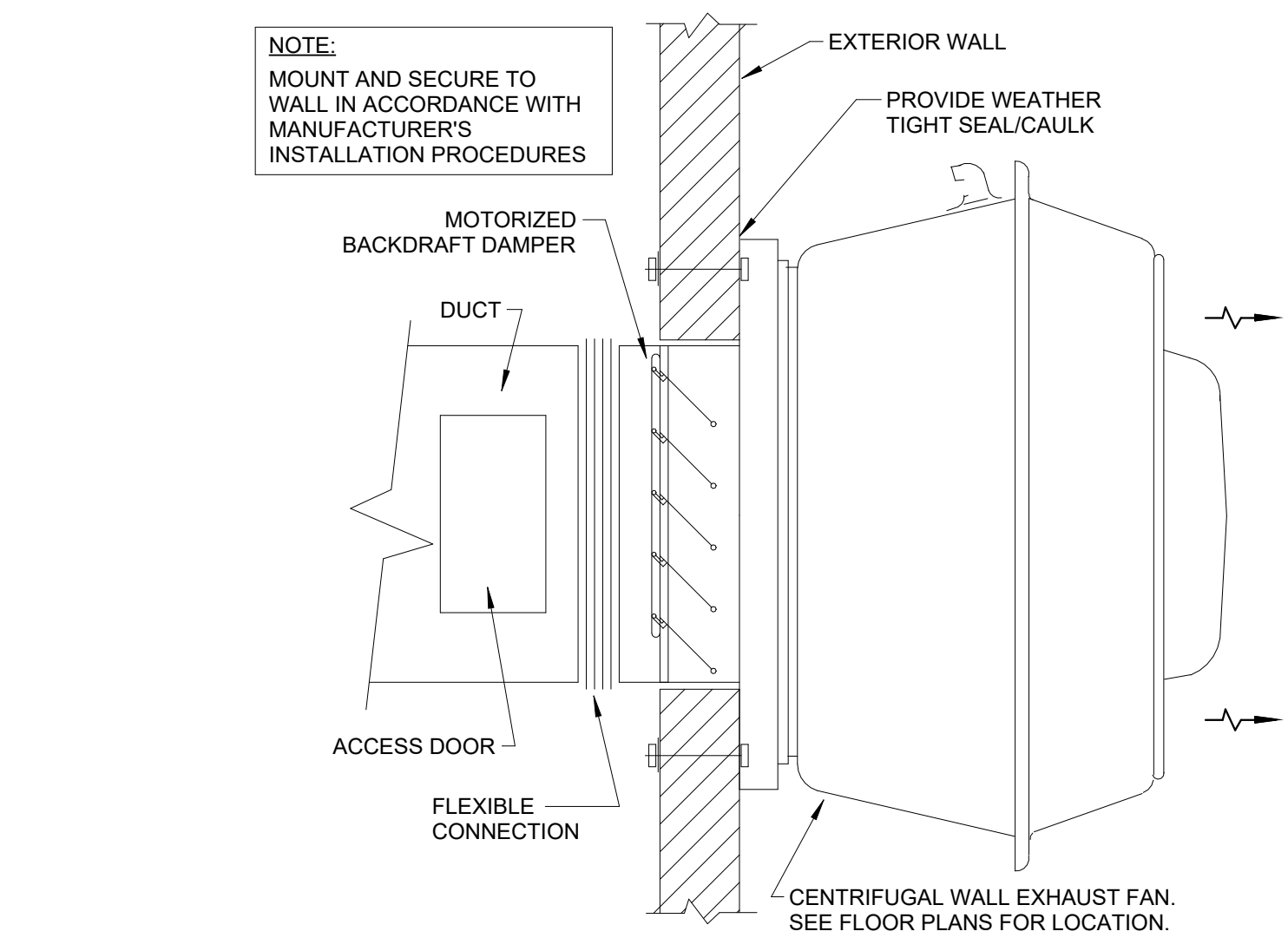
8 CONCEALED DAMPER OPERATOR IN-DIFFUSER DETAIL  
NOT TO SCALE



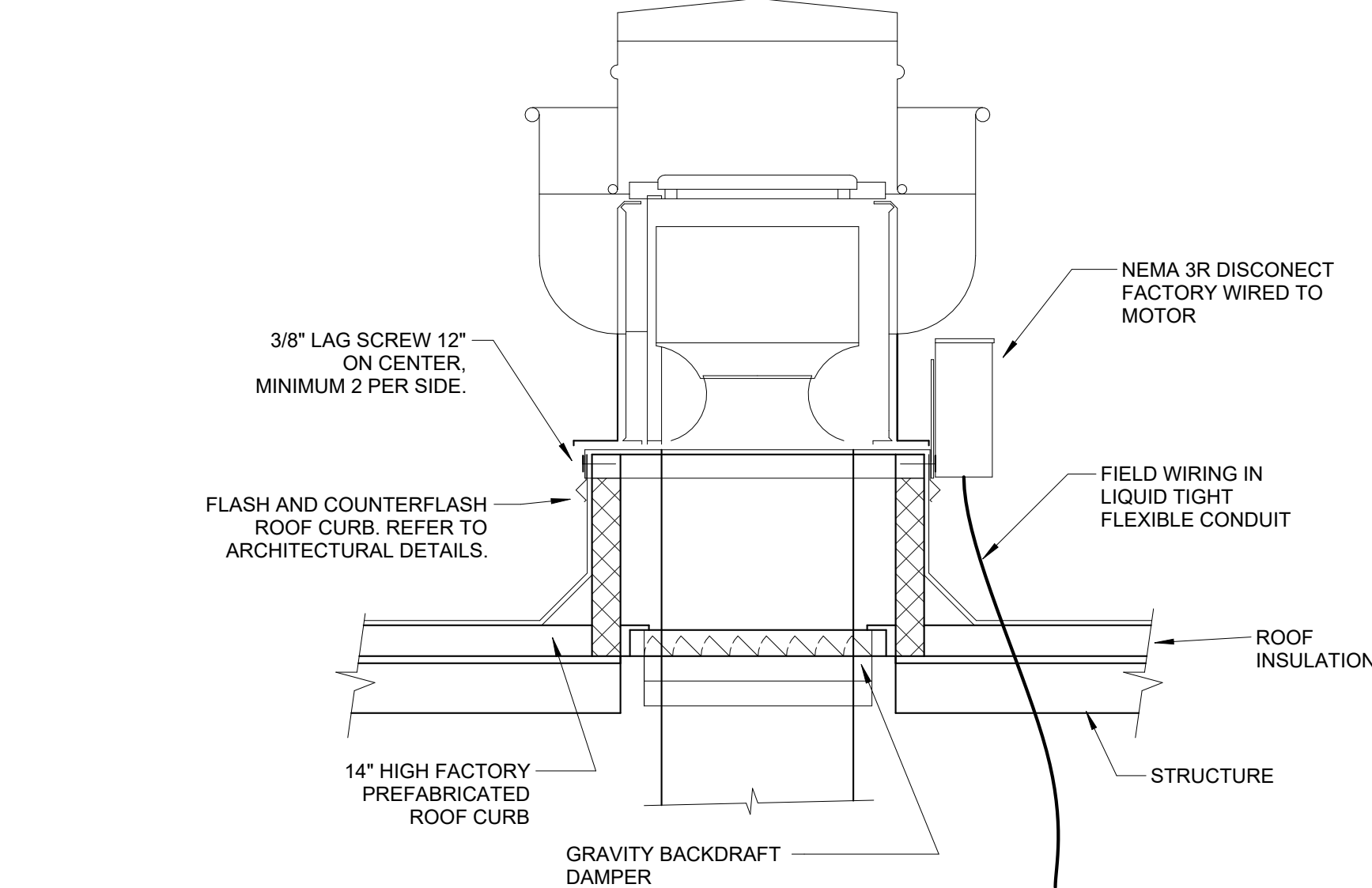
9 FIRE/SMOKE DAMPER DETAIL  
NOT TO SCALE



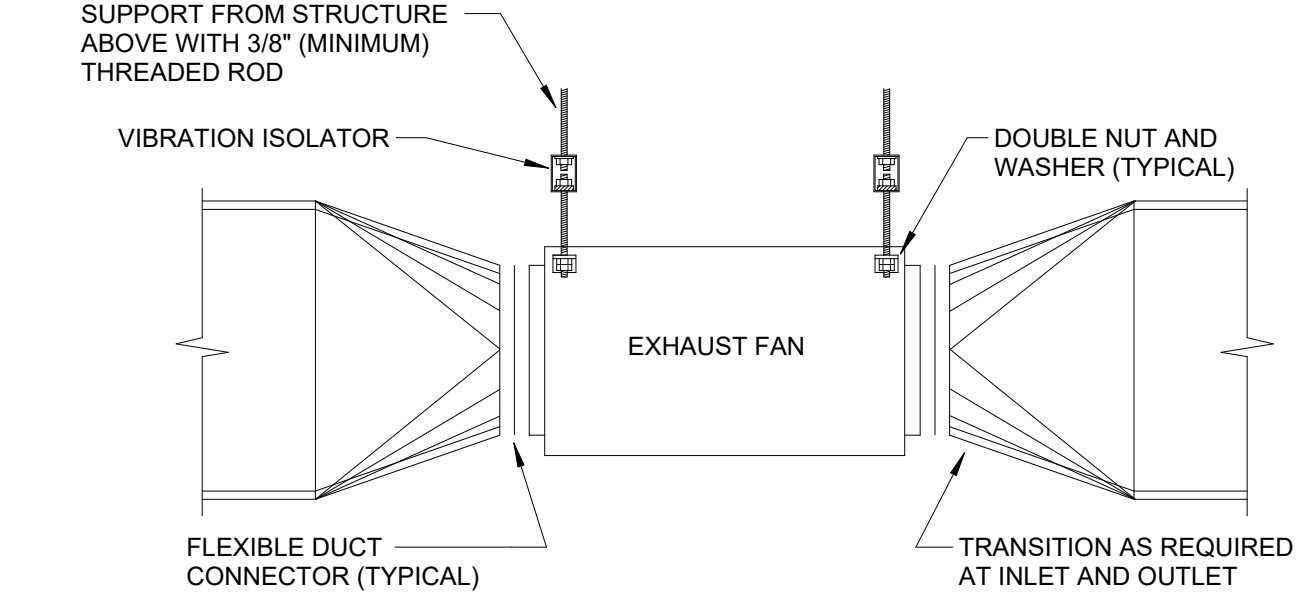
10 ROOF-MOUNTED DOWNBLAST GENERAL EXHAUST FAN DETAIL  
NOT TO SCALE



11 SIDEWALL MUSHROOM EXHAUST FAN MOUNTING DETAIL  
NOT TO SCALE



12 ROOF MOUNTED UPBLAST GENERAL EXHAUST FAN DETAIL  
NOT TO SCALE



13 INLINE GENERAL EXHAUST FAN DETAIL  
NOT TO SCALE

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REVISIONS  
NO DESCRIPTION DATE

MECHANICAL DETAILS - DUCT

TreanorHL NO. HE0569-2302.01

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Office: 214.310.1018  
www.TreanorHL.com

D. SCOTT BROWN  
89097  
Professional Engineer  
2-6-2024

2507 201  
SCOTT BROWN, KRISTIN BURKE  
MICHAEL HENTON  
CHRIS WOODWARD  
KYLE HOBBS  
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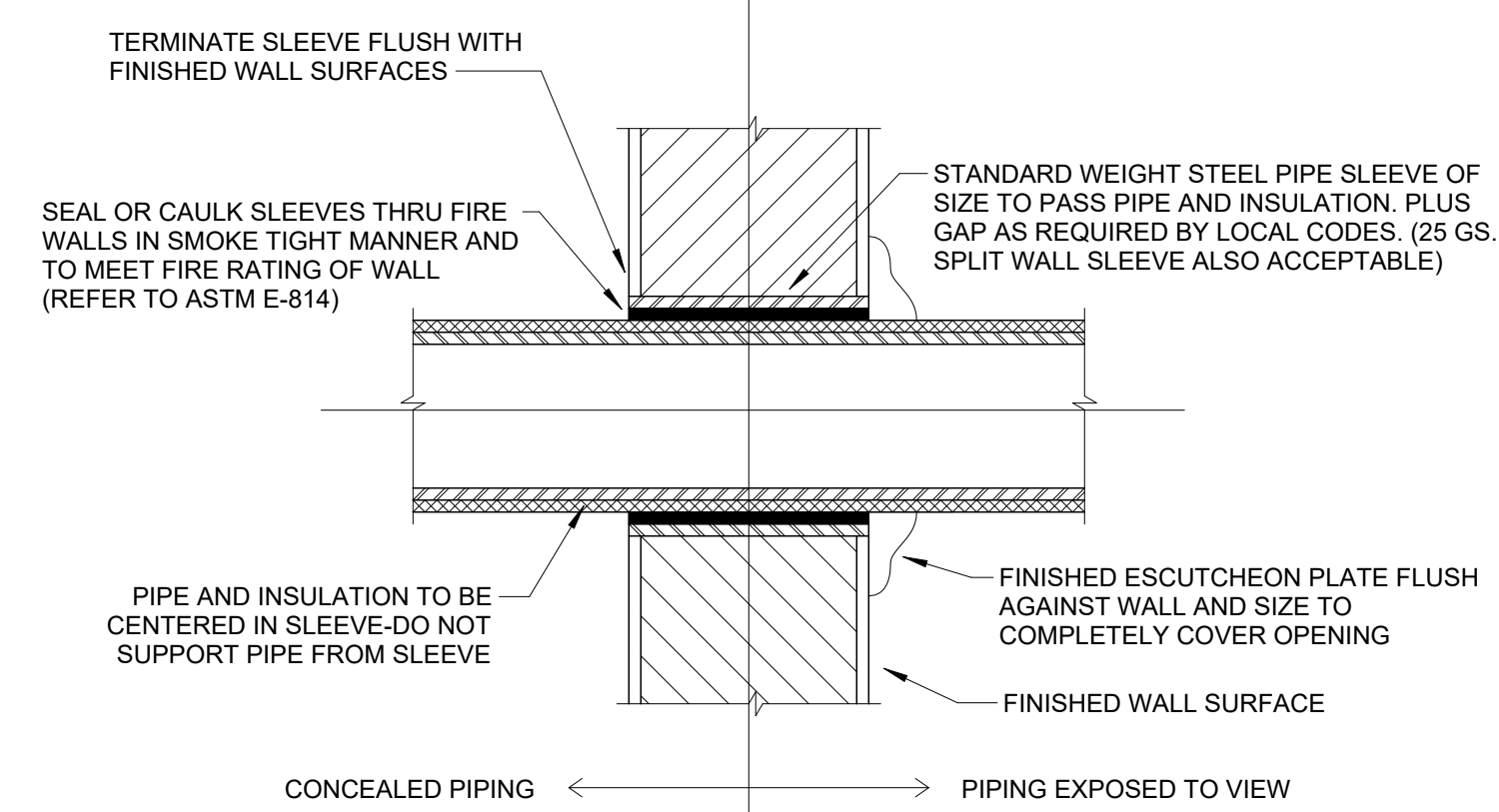
35 of 80



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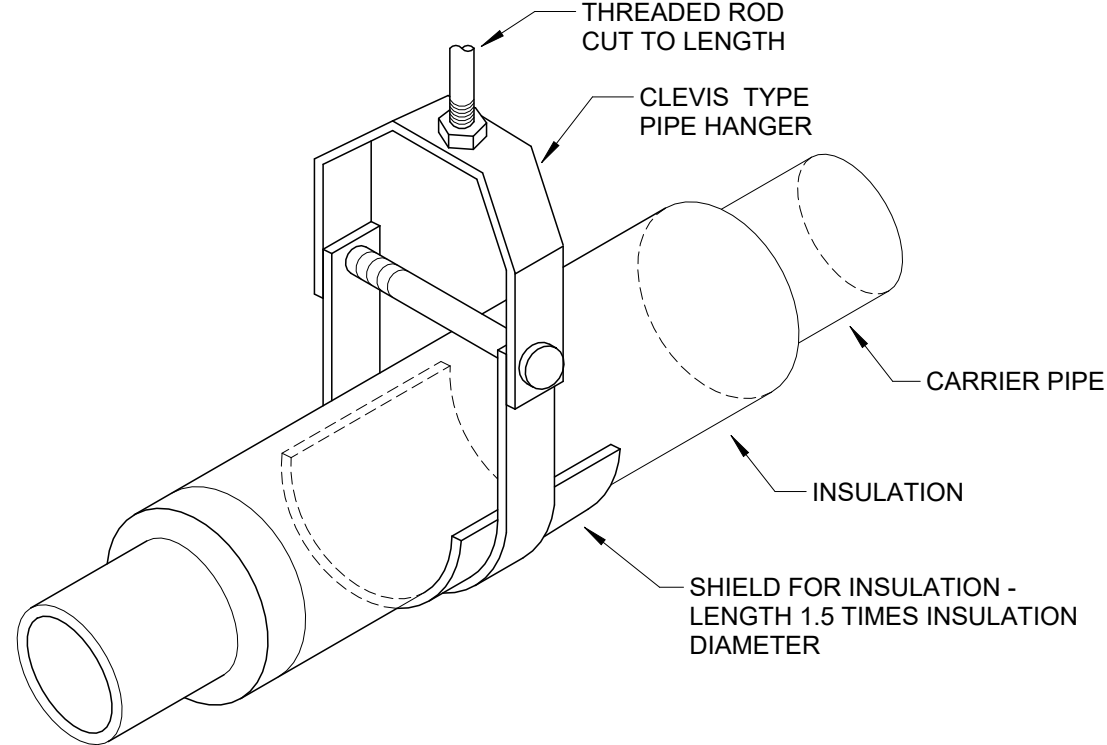
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EXHIBIT B

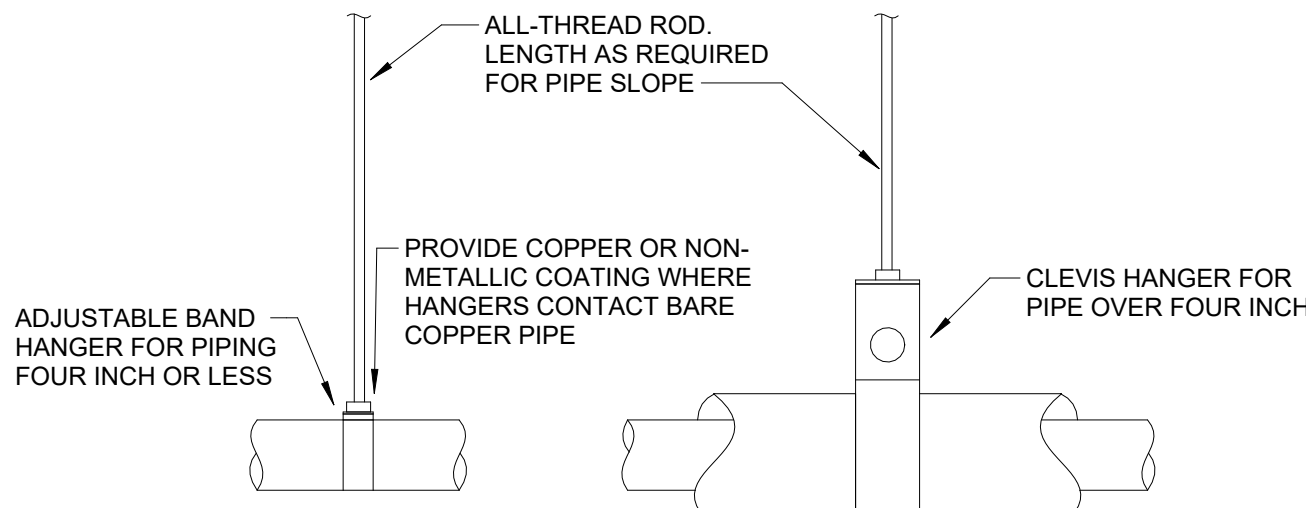


NOTE: PROVIDE FOR ALL MASONRY WALLS AND FIRE RATED WALLS

1 PIPE SLEEVE - INTERIOR WALLS  
NOT TO SCALE

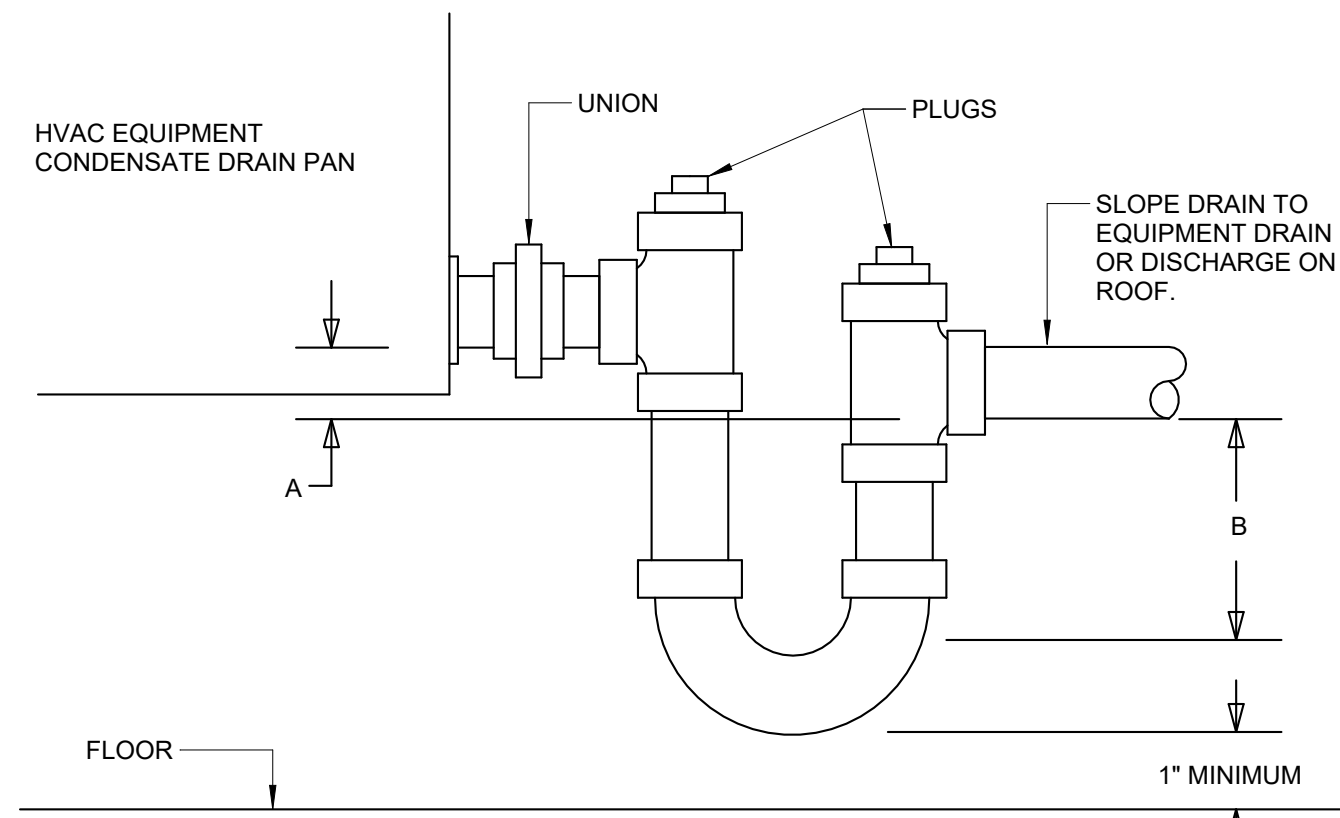


2 CLEVIS PIPE HANGER DETAIL  
NOT TO SCALE



- DO NOT HANG PIPE LARGER THAN 3" FROM BOTTOM OF JOIST.
- PROVIDE GALVANIZED STEEL SADDLE FOR ALL INSULATED PIPE LARGER THAN 3/4". VERIFY INSULATION THICKNESS WHEN SIZING HANGERS.
- PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE.
  - DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER.
  - DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES.
  - TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES.
  - HANGER SPACING FOR PIPE SIZE:  
COPPER: 4" = 12' 3" = 11' 2-1/2" = 10' 2" = 9' 1-1/2" = 7' 1" = 6' 3/4" = 6' 1/2" = 5'  
CAST IRON: 10' AND ONE NEAR ALL JOISTS.  
STEEL: 4" = 14' 3" = 12' 2-1/2" = 11' 2" = 10' 1-1/2" = 9' 1" = 7' 3/4" = 6' 1/2" = 5'
  - LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE.
  - PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED.
  - LOCATE HANGERS TO TAKE LOAD OFF EQUIPMENT CONNECTIONS.
  - ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY.
  - PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES.
  - CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE.
  - REFER TO CODES FOR FURTHER INFORMATION.

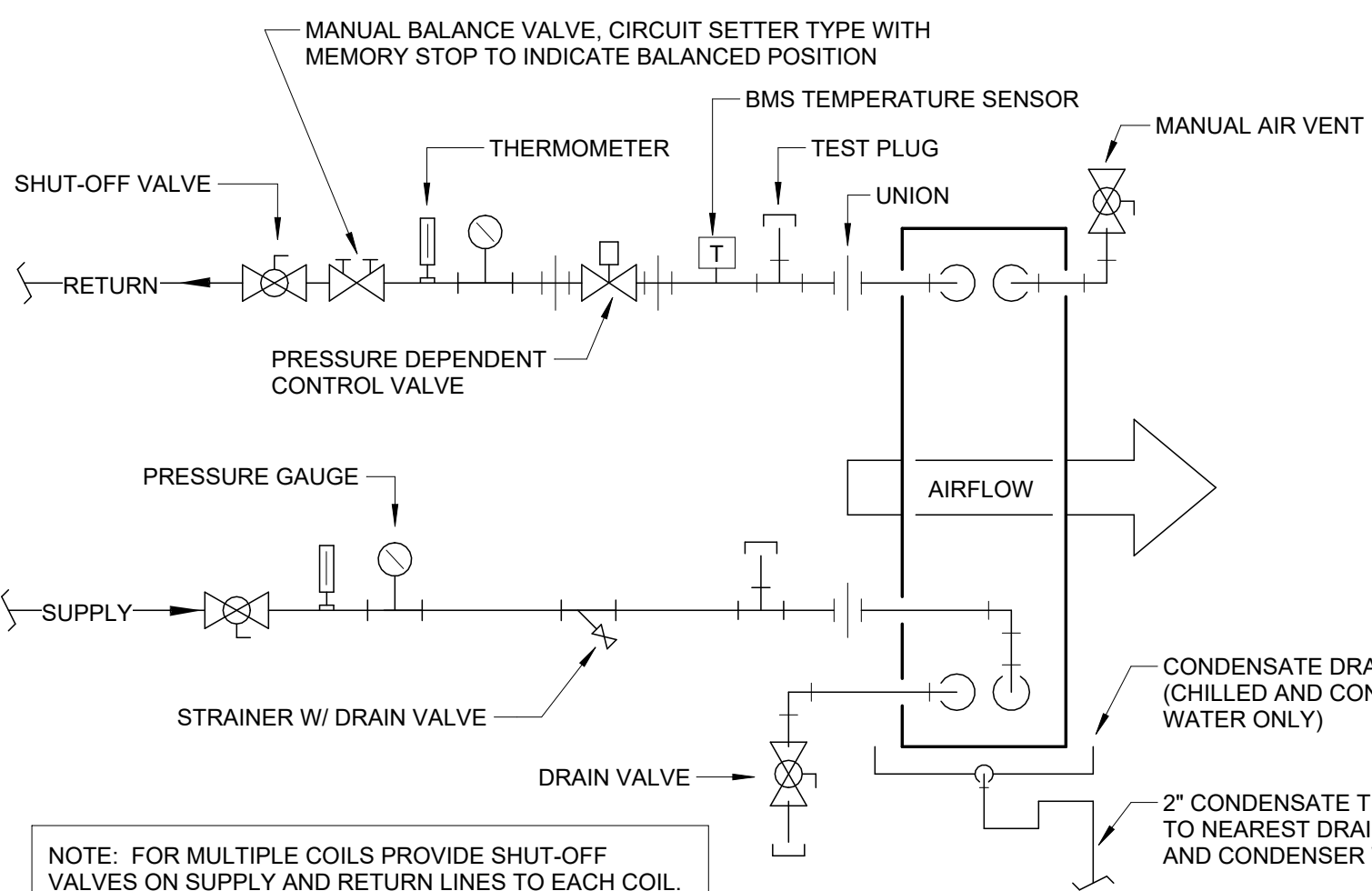
3 PIPE INSULATION/HANGER DETAIL  
NOT TO SCALE



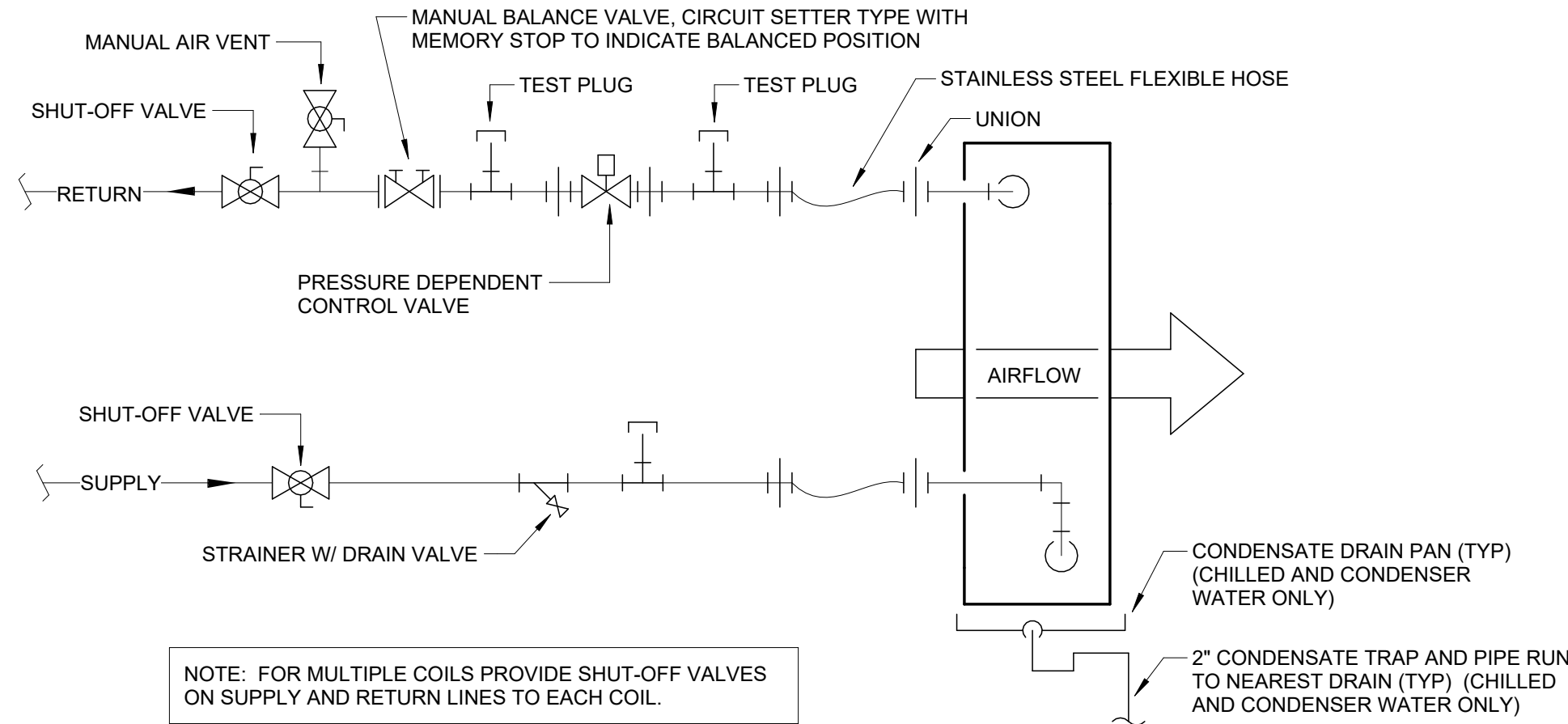
COIL CONFIGURATION	DIMENSION "A"	DIMENSION "B"
BLOW THROUGH COIL	1"	FAN DISCHARGE STATIC PRESSURE + 1"
DRAW THROUGH COIL	FAN SUCTION STATIC PRESSURE + 1"	2-1/2"

NOTE: MINIMUM "A" OR "B" DIMENSION SHALL NOT BE LESS THAN 1".

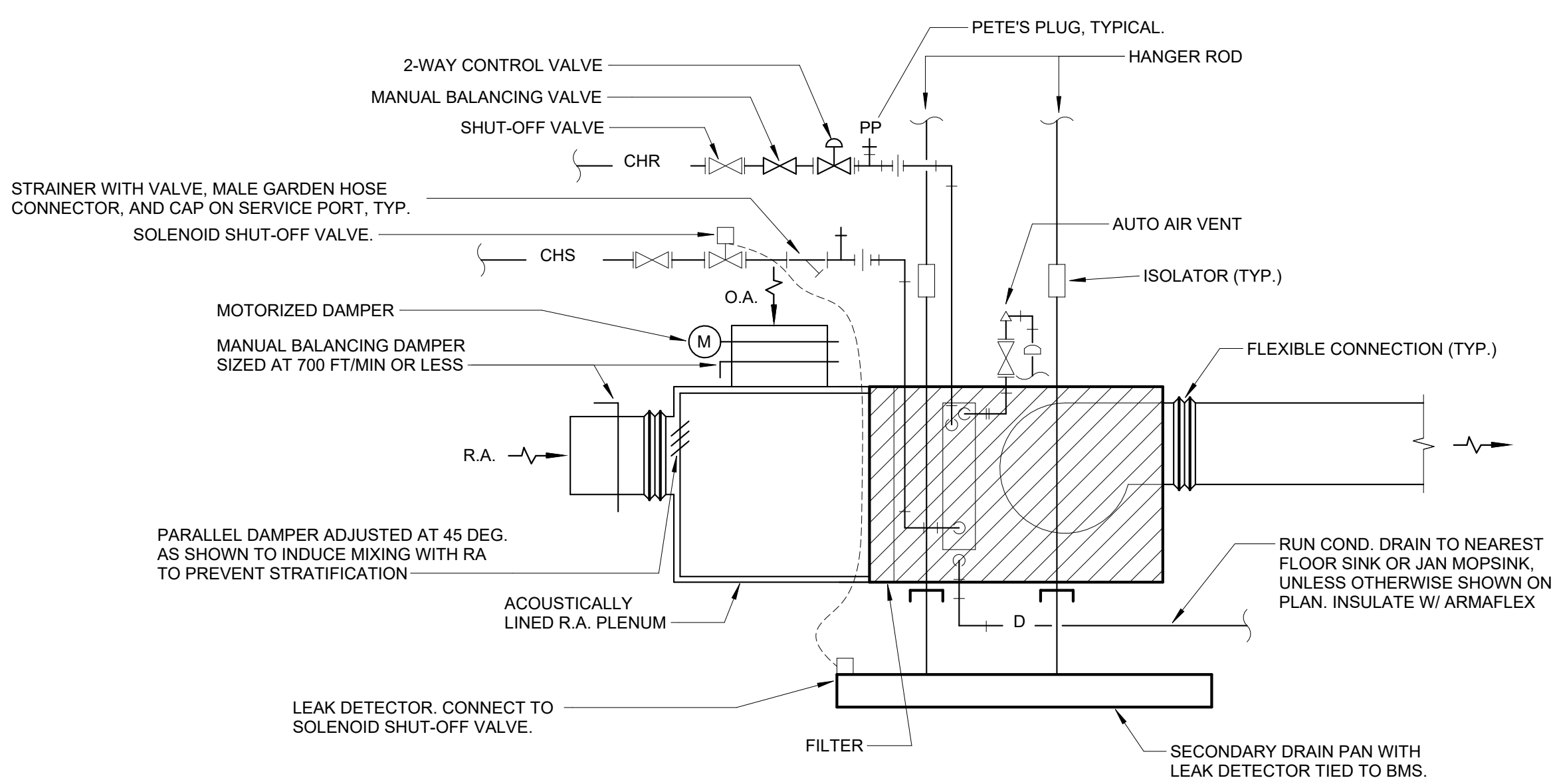
4 HVAC CONDENSATE TRAP DETAIL  
NOT TO SCALE



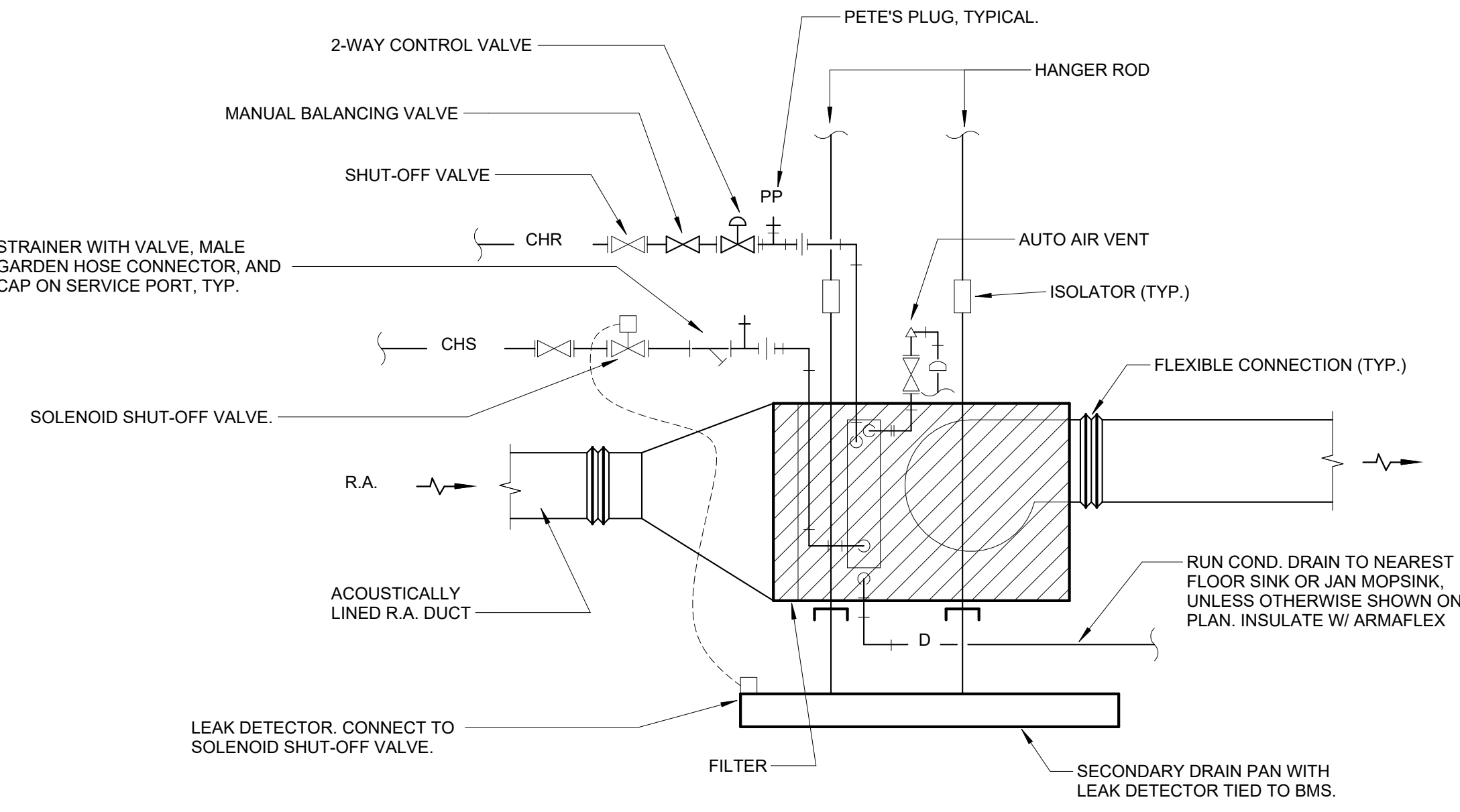
5 AHU COIL PIPING SCHEMATIC-PRESSURE DEPENDENT  
NOT TO SCALE



6 FCU COIL PIPING SCHEMATIC-PRESSURE DEPENDENT  
NOT TO SCALE



7 2-PIPE FAN COIL UNIT PIPING DIAGRAM  
NOT TO SCALE



8 2-PIPE FAN COIL UNIT PIPING DIAGRAM  
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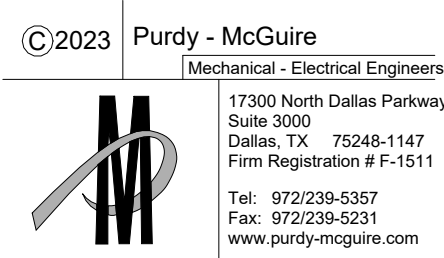
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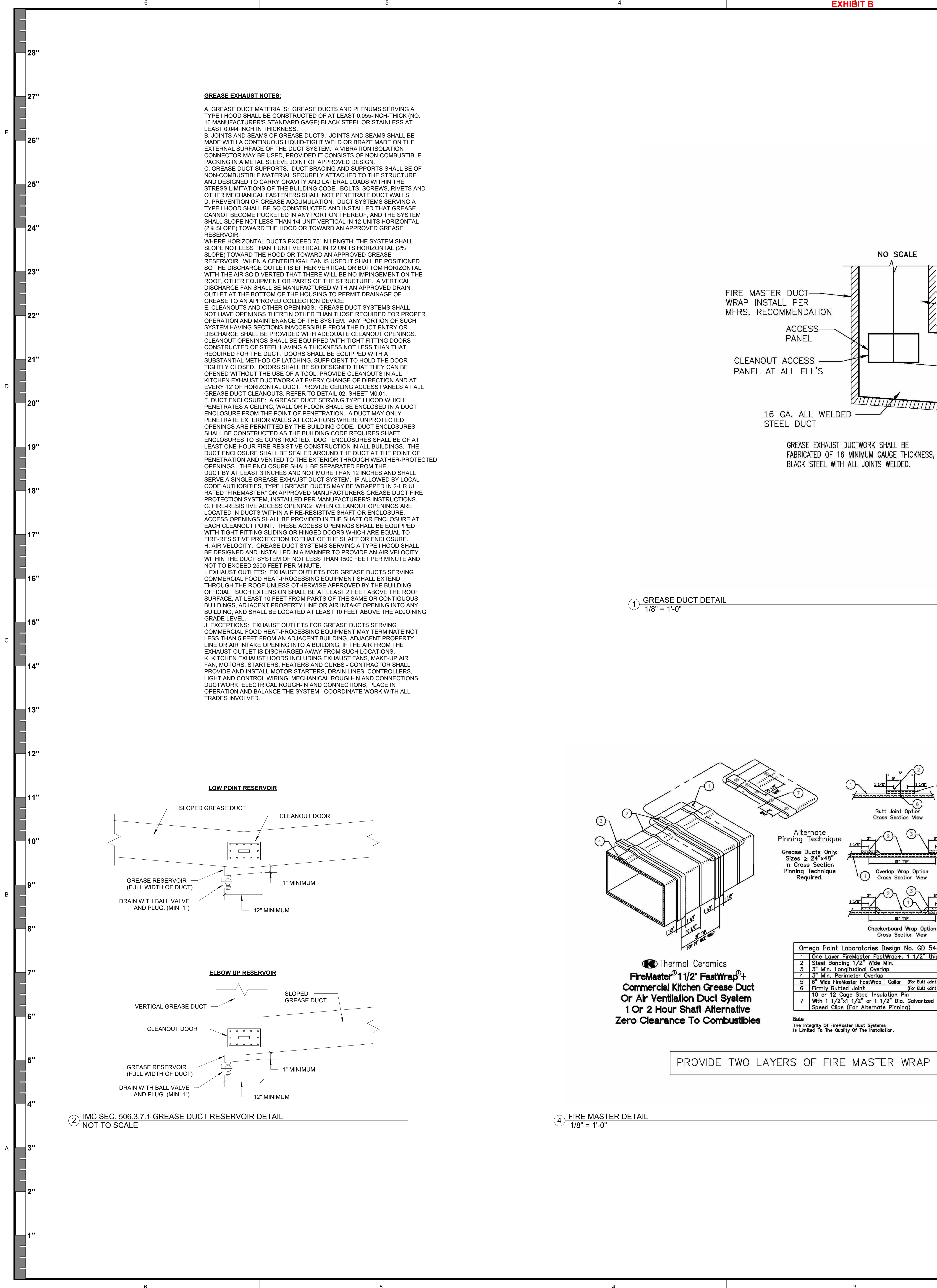


2307-230  
SCOTT BROWN, KRISTIN BURKE  
MECHANICAL  
CHRIS WOODWARD  
ELECTRICAL  
KYLE ROURE  
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iM502  
MECHANICAL DETAILS - PIPE

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89097  
LICENSED PROFESSIONAL ENGINEER  
2-6-2024

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**MECHANICAL:** MITCHELL HENTON  
**PLUMBING:** CHRIS WOODWARD  
**ELECTRICAL:** KYIE KOURINE  
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**iM503**  
MECHANICAL DETAILS - GREASE EXHAUST

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EXHIBIT B

### EXHAUST FAN SCHEDULE

MECHANICAL											ELECTRICAL								
DESIGNATION		TYPE	MARK	SERVICE	LOCATION	TYPE	CONTROL	CFM	ESP (IN W.G.)	DRIVE	ACCESSORIES (SEE BELOW)	WEIGHT (LBS)	BASIS OF DESIGN		MODEL	HP	RPM	VOLT	PH
TEF	L-1-1	LOBBY RESTROOMS	ROOF ABOVE LOBBY	CENTRIFUGAL	BMS	425	0.4	BELT	A,B,C,H,N	24			COOK	80	ACEB	0.33	1370	115	1
LEF	L-1-1	DRYER LINT EXHAUST	JANITOR A104.1	INLINE	BMS	4400	0.5	DIRECT	SEE NOTE 9	380			US DRAFT COMPANY	DEF050	5	1750	480	3	
GEF	L-1-1	COMMUNITY KITCHEN	ROOF ABOVE LOBBY	CENTRIFUGAL	SWITCH	500	0.5	DIRECT	D,J,H,K,L,P	30			COOK	101	VCRD	0.25	1435	208	1
EF	L-1-1	JANITOR CLOSET	JANITOR A104.1	INLINE	BMS	100	0.35	DIRECT	A,C,E,Q	12			COOK	GN-148	0.1	951	115	1	
ACCESSORIES:																			
(A) BACKDRAFT DAMPER					(E) SPRING ISOLATION					(J) GREASE EXHAUST FAN SHALL BE UL-762 RATED FOR KITCHEN VENTILATION					(N) BELT TENSIONER				
(B) BIRDSCREEN					(F) INTERLOCK WAHU SUPPLY FAN					(K) TFC MOTOR ENCLOSURE FOR PROTECTION FROM GREASE-LADEN AIRSTREAM					(O) WALL MOUNTING BRACKETS				
(C) PRE-WIRED NON-FUSED SERVICE DISCONNECT					(G) ROOF CURB 14" ABOVE FINISHED ROOF WITH HINGED COVER					(L) GREASE CAPTURE TROUGH WITH REMOVABLE LID					(P) EC MOTOR				
(D) PRE-WIRED NON-FUSED SERVICE DISCONNECT (NEMA 3R)					(H) INSULATED AND VENTED ROOF CURB 14" ABOVE FINISHED ROOF WHINGED COVER					(M) AMCA TYPE 'A' CONSTRUCTION FOR 'EXPLOSION PROOF' FANS					(Q) FAN SPEED CONTROL				
NOTES:																			
1) REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.																			
2) CONTROL DESCRIPTION (WHERE PROVIDED, REFER TO SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION) - BMS - BUILDING AUTOMATION SYSTEM - T-STAT - LINE VOLTAGE THERMOSTAT PROVIDED BY DIV.23. - H-STAT - HUMIDISTAT CONTROL - TOLCK - TIMECLOCK FOR OPERATION (PROVIDED BY DIV. 23 AND INSTALLED BY DIV. 28)																			
3) ALL ROOF CURBS ARE STANDARD INSULATED TC-2 CURBS WITH GASKET, UNLESS OTHERWISE NOTED.																			
4) PROVIDE VFD RATED MOTOR WHEN FAN IS EQUIPPED WITH VFD, PROVIDE STARTER WHEN VFD IS NOT REQUIRED.																			
5) PROVIDE FANS WITH OSHA RATED GUARDS.																			
6) APPROVED MANUFACTURERS - COOK, GREENHECK, TWIN CITIES.																			
7) ALL SUBSTITUTIONS SHALL BE PRE-APPROVED, IN WRITING, PRIOR TO BID.																			
8) PROVIDE GREASE GUARD G2 XD CONTAINMENT PAD AND DRIP GUARD (OR EQUAL) FOR ALL KITCHEN EXHAUST FANS.																			
9) LEF-L-1 TO HAVE A UL705 LISTING AND PROVIDED WITH L150 PRESSURE CONTROLLER, ILC24 LINT COLLECTOR, FACTORY MOUNTED NEMA 4 DISCONNECT, AND MODBUS RTU COMMUNICATION PROTOCOL. BACKDRAFT DAMPERS OR SCREENS WILL NOT BE PERMITTED IN THIS SYSTEM. LATERAL 45 DEGREE TEES ARE TO BE USED WHEN CONNECTING TO THE MANIFOLD. FAN TO BE CAPABLE OF TEMPERATURES UP TO 350 DEGREES F. CONTACT BUPE CHINUKWE, BUPE@TXDRAFT.COM (817-796-9360) FOR MORE DETAILS REGARDING THE FAN OR L150 PRESSURE CONTROLLER.																			

### CHILLED WATER AHU SCHEDULE

DESIGNATION		MECHANICAL										ELECTRICAL																		
		SUPPLY FAN				COOLING COIL				PRE-HEATING COIL				FINAL FILTER		BASIS OF DESIGN														
TYPE	MARK	CFM	ESP (IN W.G.)	BHP	TOTAL MBH	SENSIBLE MBH	EAT °F DB	LAT °F WB	AIR VELOCITY (FT/MIN)	AIR PD (IN W.G.)	GPM	EWT (°F)	LWT (°F)	MAX WATER PD (FT)	TOTAL MBH	EAT °F DB	LAT °F DB	EWT (°F)	LWT (°F)	MAX WATER PD (FT)	DEPTH	MERV	MANUFACTURER	MODEL	WEIGHT (LBS)	VOLT	PH			
AHU	A1-5	4000	1	2.68	236	193	102	75	62	60	443	0.4	39.2	45	57	11.35	149	12	65	12.7	180	140	1.07	2	13	TRANE	UCCAH10	1360	460	3
ACCESSORIES:																														
A. FACTORY MOUNTED, NON-FUSED DISCONNECT SWITCH (I) SLOPED CONDENSATE DRAIN PAN WITH THRU BASE CONDENSATE DRAIN																														
B. FOR RETURN AIR SMOKE DETECTOR SCOPE SEE NOTE BB ON SHEET BM0.01 (J) FACTORY MOUNTED VFD FOR SUPPLY FAN.																														
C. FOR SUPPLY AIR SMOKE DETECTOR SCOPE SEE NOTE BB ON SHEET BM0.01																														
D. AHUS TO HAVE 2-WAY CHILLED WATER CONTROL VALVES. VALVES TO BE MODULATING AND 24 VOLT. VALVES PROVIDED BY CONTROLS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR																														
E. PROVIDE LOW LEAKAGE MAXIMUM OUTSIDE AIR, MINIMUM OUTSIDE AIR DAMPERS PER IECC 2021 SECTION C403.3.3.5. MINIMUM OUTSIDE AIR DAMPER TO BE SIZED AT 500 FEET PER MINUTE.																														
F. REFER TO GENERAL NOTE BB FOR SMOKE DETECTORS.																														
G. FOR OUTSIDE, MIXED, AND RELIEF AIR DAMPERS, DAMPER MOTORS (24V) TO BE PROVIDED BY COONTROLS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. DAMPERS TO BE MODULATING TYPE.																														
H. PROVIDE MULTIPLE SUPPLY FANS WITH BACK DRAFT DAMPERS AND PROVIDE MULTIPLE RELIEF FANS WITH BACKDRAFT DAMPERS																														
NOTES:																														
1) REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.																														
2) PROVIDE ALL AIR HANDLING UNITS WITH FACTORY MOUNTED DISCONNECT MATCHING THE AIC RATING OF THE UPSTREAM PANEL FEEDING THE UNIT AND SINGLE POINT POWER CONNECTION.																														
3) ALL SUBSTITUTIONS SHALL BE APPROVED, IN WRITING, PRIOR TO BID																														
4) PROVIDE WITH LIGHTS AND CONVENIENCE OUTLET																														
5) APPROVED MANUFACTURERS ARE: TRANE, DAIKIN, TEMPTROL, CARRIER																														

### CHILLED WATER FAN COIL UNIT SCHEDULE

DESIGNATION		MECHANICAL																											ELECTRICAL			
TYPE	MARK	SERVES	SUPPLY FAN					COOLING COIL								PREHEAT COIL						FINAL FILTER		BASIS OF DESIGN		ACCESSORIES (SEE BELOW)	WEIGHT (LBS)	VOLT	PH			
			CFM	ESP (IN W.G.)	FAN TYPE	TOTAL NUMBER OF FANS	HP OF EACH FAN	OA CFM	TOTAL MBH	SENSIBLE MBH	EAT °F	LAT °F	WB	DB	WB	GPM	EWT (°F)	LWT (°F)	TOTAL MBH	EAT °F DB	LAT °F DB	GPM	EWT (°F)	LWT (°F)	DEPTH					MERV	MANUFACTURER	MODEL
FCU	L1-1	LAUNDRY ROOM	400	0.35	ECM	1	0.5	65	12	10	79	64	55	54	2	45	57	10	70	85	1	180	160	2	8	PRICE	FCGH	SEE BELOW	75	208	1	
FCU	L1-2	LAUNDRY ROOM	700	0.35	ECM	1	0.5	0	18	15	75	63	55	54	2.9	45	57	10	70	85	1.4	180	160	2	8	PRICE	FCGH	SEE BELOW	75	208	1	
FCU	L1-3	LAUNDRY ROOM	900	0.35	ECM	2	0.5	0	21	18	75	63	55	54	3.5	45	57	11	70	85	1.5	180	160	2	8	PRICE	FCGH	SEE BELOW	75	208	1	
FCU	L1-4	LAUNDRY ROOM	400	0.35	ECM	1	0.5	0	10	8	75	63	55	54	1.3	45	57	10	70	85	1	180	160	2	8	PRICE	FCGH	SEE BELOW	75	208	1	
NOTES:																																
1. PROVIDE NON-LOCKING FUSED DISCONNECT, VARIABLE SPEED ECM MOTOR - SPEED TO BE CONTROLLED BY BMS, 2-WAY CHILLED WATER AND HEATING WATER MODULATING CONTROL VALVE(24V) TO BE PROVIDED BY CONTROLS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. FAN COILS ARE TO BE CONCEALED PLENUM WITH CONNECTIONS FOR SUPPLY AND RETURN DUCTWORK. HOT WATER COIL TO BE IN PRE-HEAT POSITION.																																

### GRILLES-REGISTERS-DIFFUSERS

DESIG.	DUTY	TYPE	MOUNTING LOCATION	MATERIAL	VOLUME CONTROL	FINISH	AIR PATTERN CONTROL	METHOD OF SUPPORT	EQUAL TO MANUFACTUER AND MODEL NO.	REMARKS
A	SUPPLY	SQ. PLAQUE	LAY-IN	STEEL	NO	SEE NOTE 10	YES	T-BAR	TITUS OMNI - 24"X24" FACE	SEE NOTE 1
B	RETURN	PERFORATED	LAY-IN	STEEL	NO	SEE NOTE 10	NO	T-BAR	TITUS PAR	
C	SUPPLY	GRILLE	FLUSH MOUNTED	STEEL	NO	SEE NOTE 10	YES	SURFACE	TITUS S300FL	SEE NOTE 3
D	RETURN	GRILLE	SIDEWALL	STEEL	NO	SEE NOTE 10	YES	DUCT	TITUS 25RL	SEE NOTE 2
E	EXHAUST	GRILLE	SIDEWALL	STEEL	NO	SEE NOTE 10	YES	DUCT	TITUS 25RL	SEE NOTE 2
E1	EXHAUST	LINEAR SLOT	GYP BD CLG	ALUMINUM	NO	SEE NOTE 10	YES	SURFACE	TITUS FL-HT	SEE NOTE 1.4
F	SUPPLY	LINEAR SLOT	GYP BD CLG	ALUMINUM	NO	SEE NOTE 10	YES	SURFACE	TITUS FL-HT	SEE NOTE 1.5
F1	SUPPLY	LINEAR SLOT	GYP BD CLG	ALUMINUM	NO	SEE NOTE 10	YES	SURFACE	TITUS FL-HT	SEE NOTE 1.6
F2	SUPPLY	LINEAR SLOT	GYP BD CLG	ALUMINUM	NO	SEE NOTE 10	YES	SURFACE	TITUS FL-HT	SEE NOTE 1.7
G	RETURN	FLOOR GRILLE	FLOOR	STEEL	NO	SEE NOTE 10	YES	SURFACE	TITUS CT-480	SEE NOTE 8
H	RETURN	LINEAR SLOT	GYP BD CLG	ALUMINUM	NO	SEE NOTE 10	YES	SURFACE	TITUS FL	SEE NOTE 9
J	SUPPLY	GRILLE	SIDEWALL	STEEL	NO	SEE NOTE 10	YES	SURFACE	TITUS 272RL	SEE NOTE 2

#### NOTES:

1) NECK SIZES AS FOLLOWS:

DESIGNATION "A"			DESIGNATION "F"			DESIGNATION "F2" AND "E1"		
CFM RANGE	NECK SIZE		CFM RANGE	NECK SIZE / MODEL	LENGTH	CFM RANGE	NECK SIZE / MODEL	LENGTH
000 - 250	8"Ø		000 - 100	6"Ø / FL-10	4'-0"	000 - 100	6"Ø / FL-15	2'-0"
251 - 400	10"Ø		101 - 150	8"Ø / FL-10	4'-0"	101 - 130	8"Ø / FL-20	2'-0"
401 - 550	12"Ø		151 - 210	8"Ø / FL-20	4'-0"	DESIGNATION "F1"		
551 - 700	14"Ø		211 - 255	10"Ø / FL-30	4'-0"	CFM RANGE	NECK SIZE / MODEL	LENGTH
			256 - 350	12"Ø / FL-30	4'-0"	200 - 280	12"Ø / FL-20	4'-0"
						281 - 350	10"Ø / FL-25	4'-0"

2) SIZE PER PLANS

3) SIZE PER PLANS. PROVIDE WITH OPPOSED BLADE DAMPER.

4) FOR TYPE E1 DIFFUSER, PROVIDE NUMBER OF 24" LONG PLENUMS. REFER TO NOTE 1 FOR NECK SIZE AND SLOT WIDTH. PLENUMS TO BE FABRICATED BY TITUS. DIFFUSER TO HAVE A CONTINUOUS LOOK. CONFIRM BORDER TYPE 22 WITH ARCHITECT AND COORDINATE WITH GENERAL CONTRACTOR TO MUDD AND PAINT BORDER.

5) FOR TYPE F DIFFUSER, PROVIDE NUMBER OF 4' LONG SUPPLY AIR PLENUMS AS SHOWN WITH NECK FOR EACH PLENUM. REFER TO CHART FOR NECK SIZE. SUPPLY AIR PLENUMS TO BE FABRICATED BY TITUS. LEAVE UNUSED PORTION OPEN FOR RETURN AIR AND PROVIDE A LIGHT SHIELD. DIFFUSER TO HAVE A CONTINUOUS LOOK. CONFIRM BORDER TYPE 22 WITH ARCHITECT AND COORDINATE WITH GENERAL CONTRACTOR TO MUDD AND PAINT BORDER.

6) FOR TYPE F1 DIFFUSER, PROVIDE 5' LONG SUPPLY AIR PLENUMS. REFER TO CHART FOR NECK SIZE AND SLOT WIDTH. SUPPLY AIR PLENUMS TO BE FABRICATED BY TITUS. CONFIRM BORDER TYPE 22 WITH ARCHITECT AND COORDINATE WITH GENERAL CONTRACTOR TO MUDD AND PAINT BORDER.

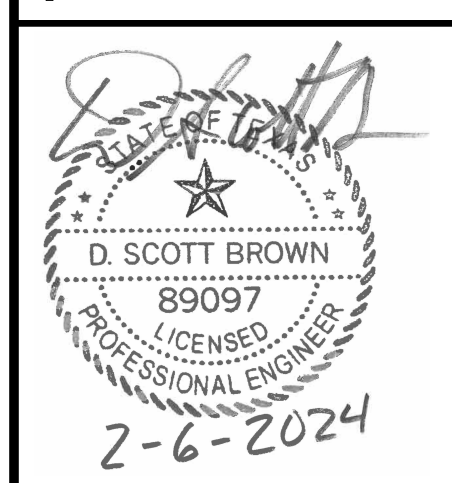
7) FOR TYPE F2 DIFFUSER, PROVIDE NUMBER OF 2' LONG SUPPLY AIR PLENUMS. REFER TO CHART FOR NECK SIZE AND SLOT WIDTH. SUPPLY AIR PLENUMS TO BE FABRICATED BY TITUS. LEAVE UNUSED PORTION OPEN FOR RETURN AIR AND PROVIDE A LIGHT SHIELD. DIFFUSER TO HAVE A CONTINUOUS LOOK. CONFIRM BORDER TYPE 22 WITH ARCHITECT AND COORDINATE WITH GENERAL CONTRACTOR TO MUDD AND PAINT BORDER.

8) FOR TYPE G DIFFUSER, LEAVE OPEN FOR RETURN. MATCH SIZE OF EXISTING DIFFUSERS IN THE FIELD.

9) FOR TYPE H DIFFUSER, LEAVE OPEN FOR RETURN AIR AND PROVIDE A LIGHT SHIELD. DIFFUSER TO HAVE A CONTINUOUS LOOK. CONFIRM BORDER TYPE 22 WITH ARCHITECT AND COORDINATE WITH GENERAL CONTRACTOR TO MUDD AND PAINT BORDER.

10) COORDINATE FINISH WITH ARCHITECT.

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www.purdy-mcguire.com

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PROJECT MGR  
MECHANICAL  
PLUMBING  
ELECTRICAL  
2023.001  
SCOTT BROWN, KRISTIN BURKE  
MITCHELL HENTON  
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KYLE ROURE  
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iM601  
MECHANICAL SCHEDULES

TreanorHL NO. HE0569.2302.01



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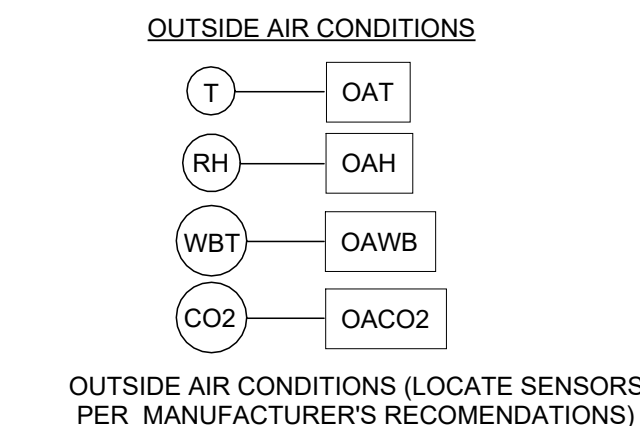
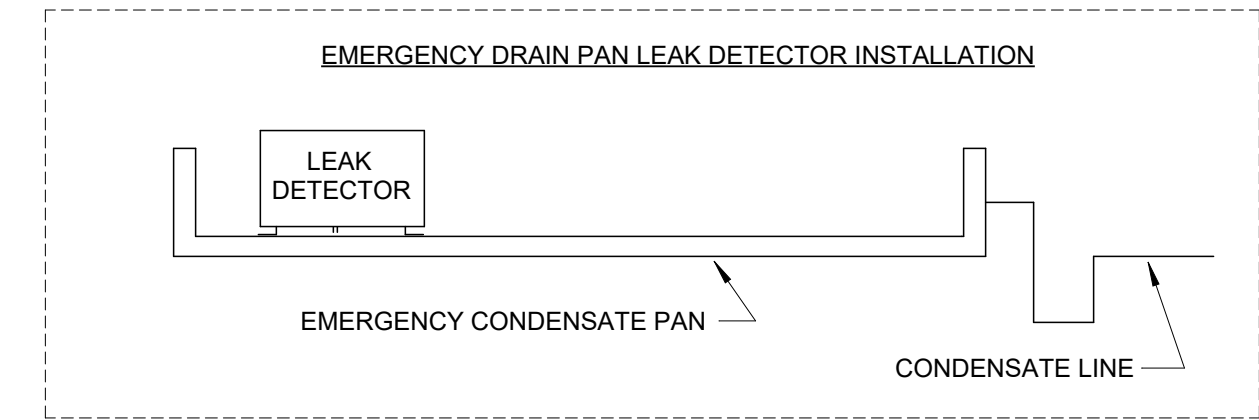
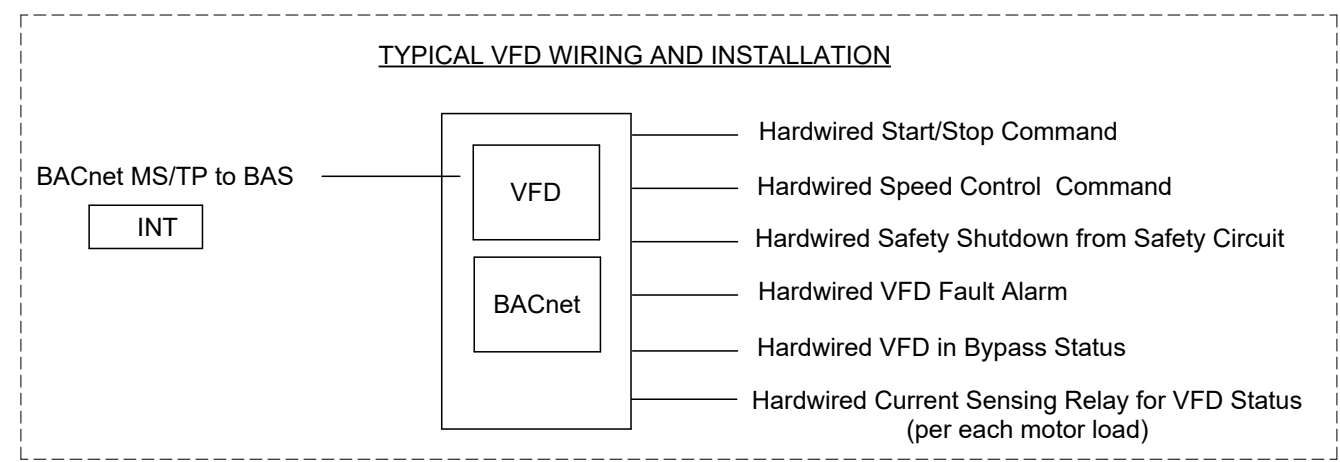
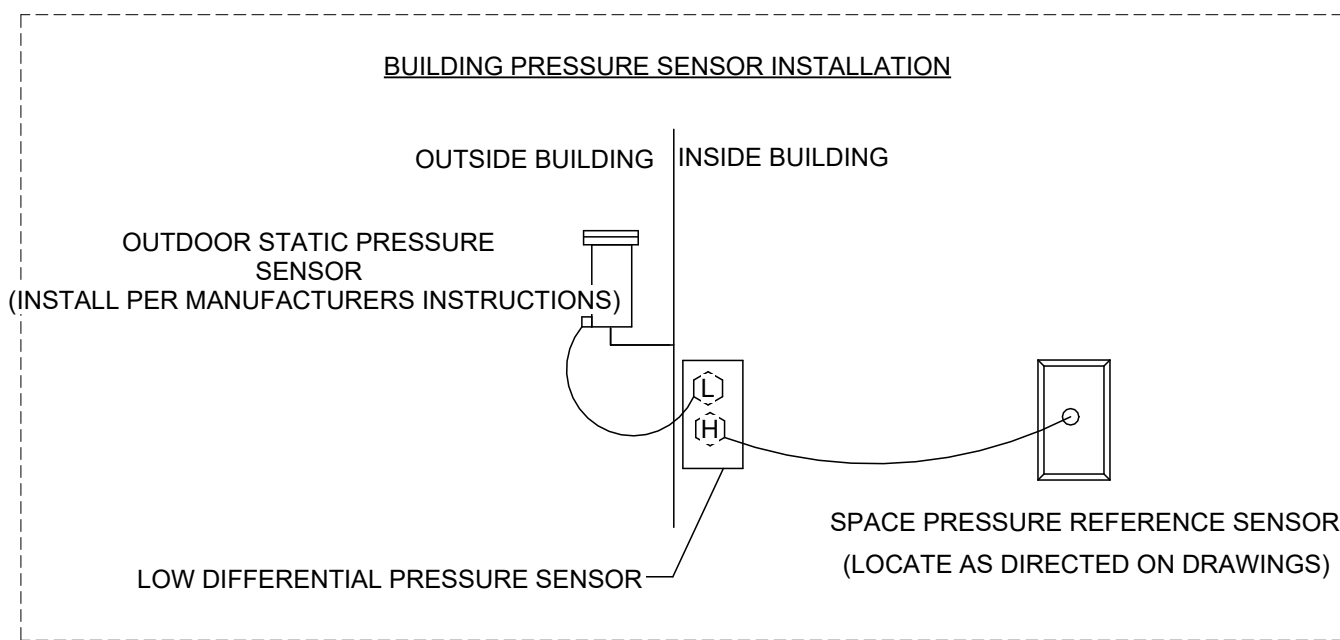
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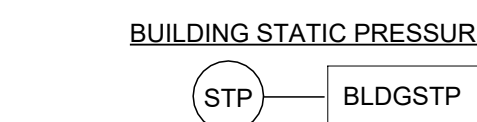
CONTROLS/BUILDING AUTOMATION SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
SP	STATIC PRESSURE SENSOR
CO	CARBON MONOXIDE SENSOR - WALL MOUNT
CO2	CARBON DIOXIDE SENSOR - WALL MOUNT
NO	NITROGEN OXIDE SENSOR
O2	OXYGEN SENSOR
T	TEMPERATURE SENSOR - WALL MOUNT OR THERMOSTAT
WT	WIRELESS TEMPERATURE SENSOR - WALL MOUNT OR THERMOSTAT
RH	HUMIDITY SENSOR - WALL MOUNT OR HUMIDISTAT
WRH	WIRELESS HUMIDITY SENSOR - WALL MOUNT OR HUMIDISTAT
WB	WETBULB SENSOR - WALL MOUNT
T	TEMPERATURE SENSOR -
SSD	SUPPLY SMOKE DEECTOR
RSD	RETURN SMOKE DEECTOR
OSD	OUTSIDE AIR SMOKE DEECTOR
AFMS	AIRFLOW MONITORING STATION - DUCT MOUNT
CO2	CARBON DIOXIDE SENSOR - DUCT MOUNT
CO	CARBON MONOXIDE SENSOR - DUCT MOUNT
MD	MANUAL BALANCING DAMPER
M	MOTORIZED DAMPER
BDD	BACKDRAFT DAMPER
DP	DIFFERENTIAL PRESSURE SENSOR
LTD	LOW TEMPERATURE DETECTOR / FREEZESTAT
FRZ	LOW TEMPERATURE DETECTOR / FREEZESTAT
GRD	GRAVITY RELIEF DAMPER

### BUILDING AUTOMATION / CONTROLS GENERAL NOTES:

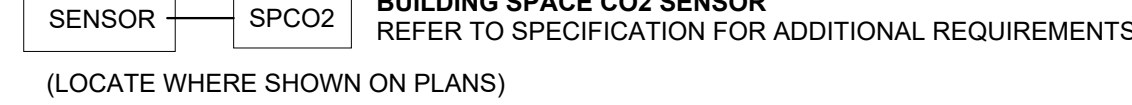
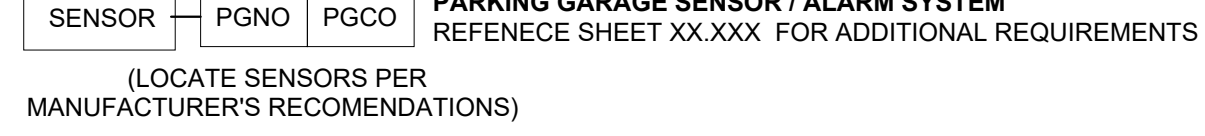
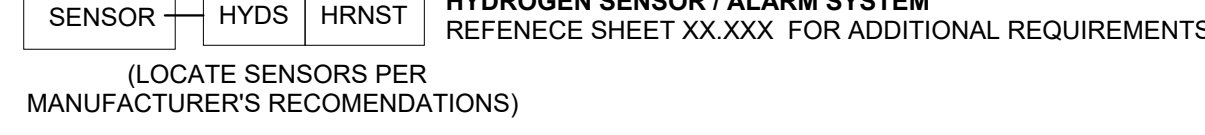
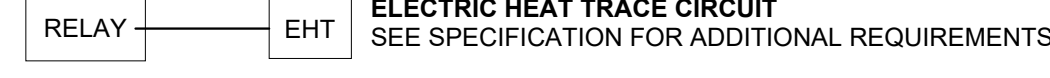
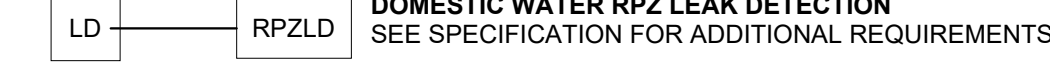
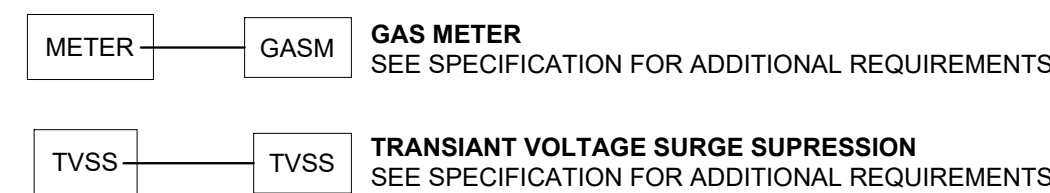
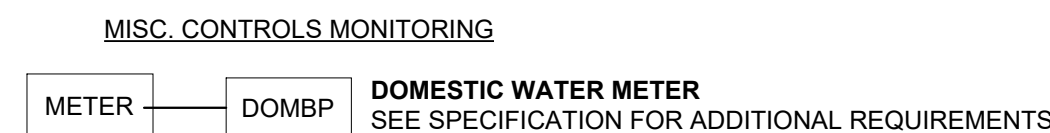
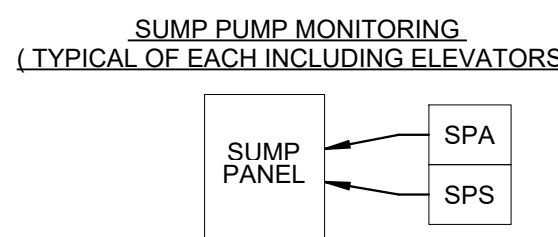
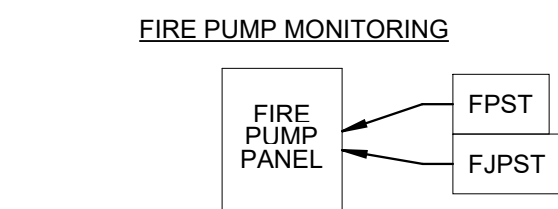
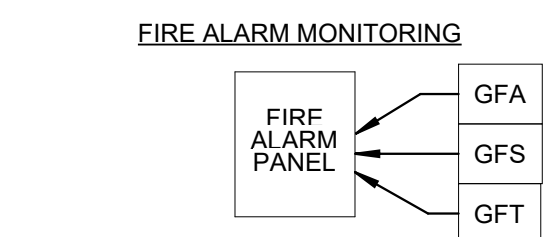
- A. GENERAL NOTES APPLY TO ALL MECHANICAL CONTROLS SHEETS.  
B. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES & REGULATIONS.  
C. MECHANICAL CONTROL DRAWINGS ARE SCHEMATIC IN NATURE. EXACT LOCATIONS OF DUCTWORK, PIPING, AND EQUIPMENT, INCLUDING REQUIRED CLEARANCES FOR FLOWSTATIONS, TO BE COORDINATED WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS.  
D. THIS CONTRACTOR IS RESPONSIBLE FOR FIRE STOPPING AT ALL MECHANICAL PENETRATIONS OF FIRE AND SMOKE RATED STRUCTURES, FLOORS AND PARTITIONS. REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATIONS OF ALL RATED STRUCTURES.  
E. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS PRIOR TO ORDERING ANY MATERIALS AND/OR EQUIPMENT OR BEGINNING ANY WORK WITHOUT AUTHORIZATION.  
F. THERMOSTATS TO BE MOUNTED 48" ABOVE FINISHED FLOOR LEVEL UNLESS NOTED OTHERWISE ON THE PLANS. CONTRACTOR TO VERIFY ALL THERMOSTAT LOCATIONS WITH ARCHITECT/ENGINEER PRIOR TO ROUGH IN.  
G. ELECTRICAL DIVISION 26 CONTRACTOR TO PROVIDE J-BOX AND CONDUIT TO ACCESSIBLE CEILING FOR ALL T-STATS SHOWN ON PLANS. COORDINATE LOCATIONS OF T-STATS WITH ELECTRICAL DIVISION 26 CONTRACTOR.  
H. IF CONTROLS POINTS LIST CALLS FOR TRENDING, SET THE ANALOG VALUES UP FOR 10MIN (ADJ.) TREND INTERVALS TRENDS AND THE BINARY VALUES TO BE TRENDED BY CHANGE OF VALUE.



OUTSIDE AIR CONDITIONS (LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATIONS)



OUTSIDE TO BUILDING REFERENCE (LOCATE REF. POINT ON EACH FLOOR PER MANUFACTURER'S RECOMMENDATIONS)



#### Integration to 3rd Party Systems to the BMS

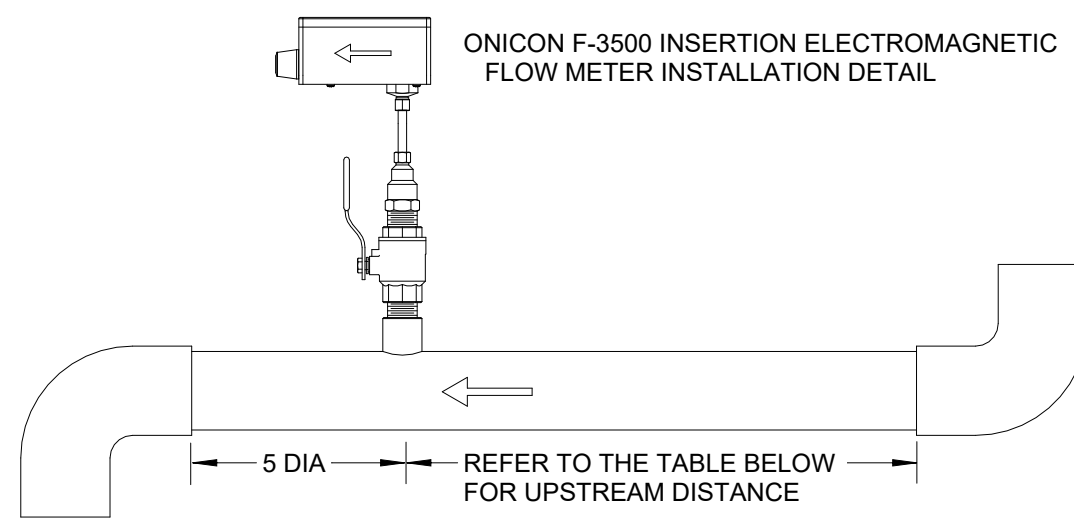
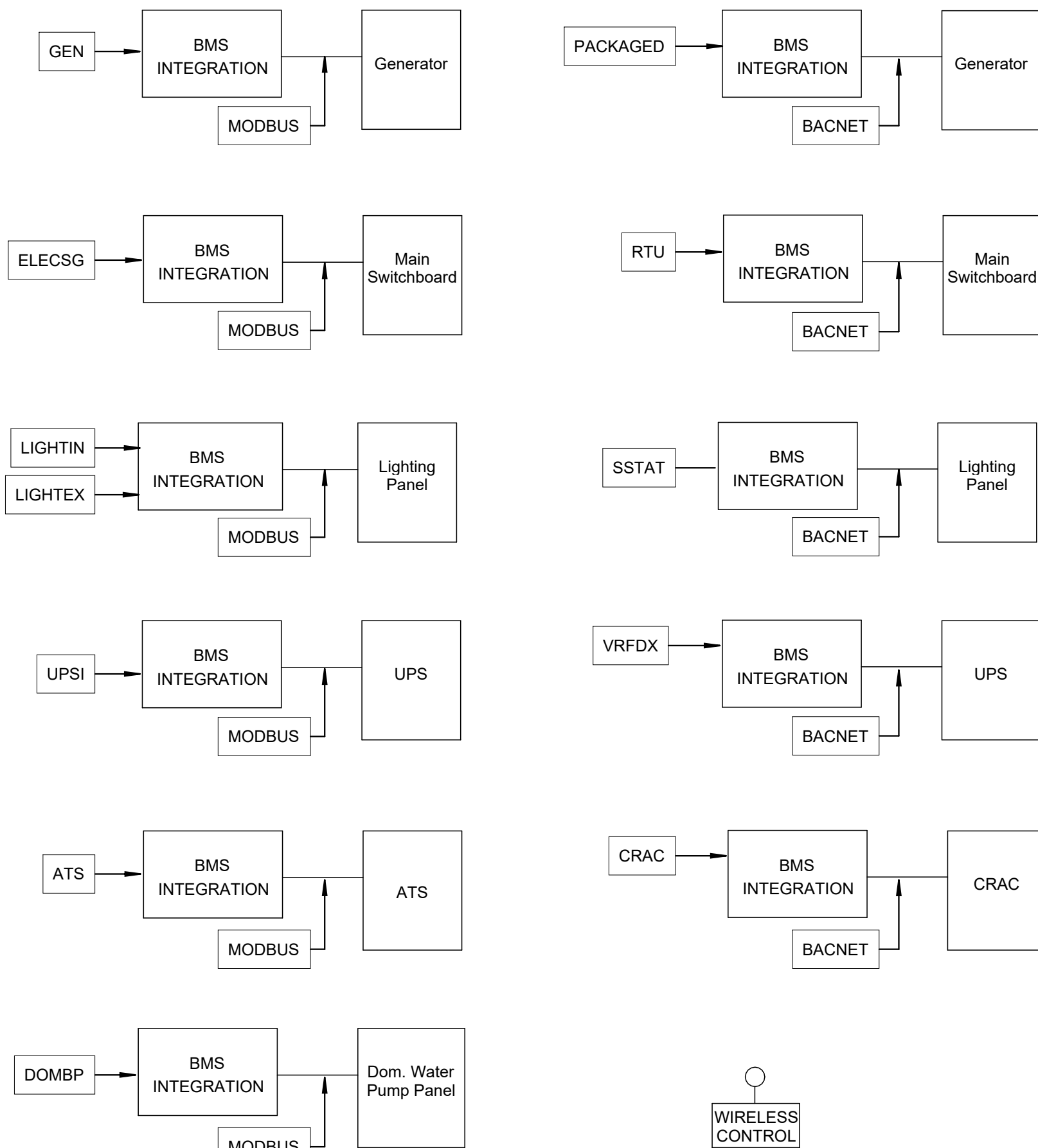
Integrate via BACnet or Modbus Protocols to each listed device below to monitor, trend, control, and alarm all mapable. Map every integrated point available from integrated equipment to the BMS, selective point mapping practices from a BMS contractor will not be acceptable. All setpoint/command control points shall have read/write priorities for analog and binary values. All multi-state integrated points shall have descriptive identifiers for each state. The use of numerical states and legends to identify the state of multi-state points on the BMS will not be acceptable. Provide a Full Graphics page on the BMS for each system with all mapped points. Graphics shall include all mapped points including consumption and alarm data for each system and be represented by animated graphics that closely resembles the specific system.

#### The BMS shall integrate to the following systems:

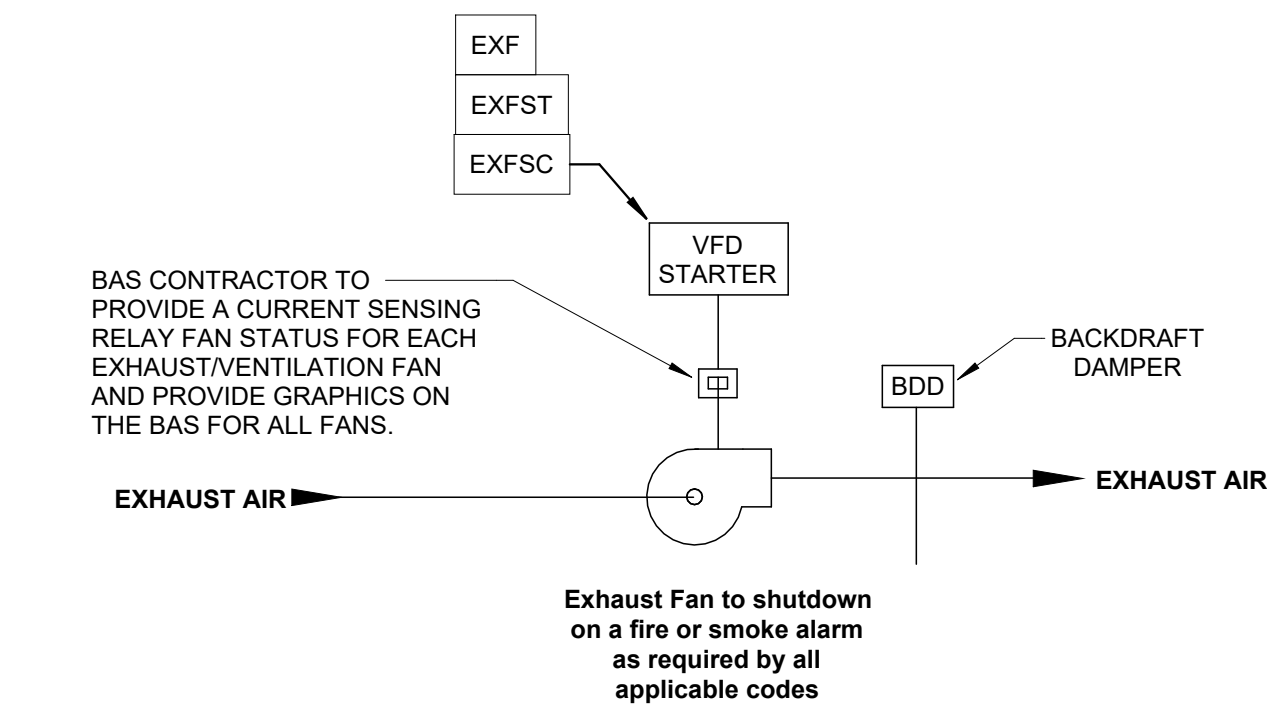
1. Air Handling Unit (integrate to each one)
2. Interior and Exterior Lighting Controls (integrate to each one)
3. Packaged Unit Controller (integrate to each one)
4. Fan Coil Units (integrate to each one)

#### Miscellaneous Monitoring and Alarms:

- The BMS shall monitor/alarm the following points:
1. Humidity, CO2, Enthalpy (calculated), and Wet Bulb Temperature of the Outside Air.
  2. Building Static Pressure (one on each floor referencing space and outside conditions via proper sensing devices and surge dampeners as necessary)
  3. Fire Pump and Jockey Pump status via CSR provided by the BAS contractor.
  4. All Sump Pump Run Status and High Level Alarms. (this includes Elevator Pit Sumps)
  5. Domestic Water Consumption Meter. BAS contractor to provide meter.
  6. Gas Consumption Meter. BAS contractor to provide meter.
  7. Main TVSS Switch at Main Electrical Switchgear.
  8. Electrical Room Temperature Monitoring and High Temperature Alarms for each room.
  9. IDF Room Temperature Monitoring and High Temperature Alarms for each room.
  10. Mechanical Room leak detectors (typical of each Mechanical Room)
  11. Space CO2 Levels (sensors to be supplied as called out on the plans).



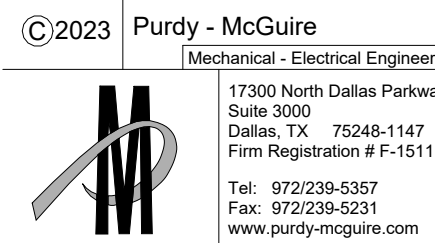
MINIMUM UPSTREAM STRAIGHT RUN REQUIRED	
OBSTRUCTION	UPSTREAM
SINGLE BEND PRECEDED BY > 9 DIAMETERS OF STRAIGHT PIPE RUN	10 DIA
PIPE SIZE REDUCTION / EXPANSION IN STRAIGHT RUN	10 DIA
SINGLE BEND PRECEDED BY < 9 DIAMETERS OF STRAIGHT PIPE RUN	15 DIA
OUTFLOWING TEE / PUMP OUTFLOW	20 DIA
MULTIPLE BENDS OUT OF PLANE	30 DIA
INFLOWING TEE	30 DIA
CONTROL / MODULATING VALVE	30 DIA



General and Toilet Exhaust Fans Sequence (typical of each):  
The exhaust fans shall be started and stopped at the BAS via a building occupancy schedule.  
The exhaust air fan shall shut down on a fire or smoke alarm event as determined by all applicable codes.  
Alarms shall be provided as follows:  
Fan Failure: Commanded on, but the status is off.  
Fan in Hand: Commanded off, but the status is on.

EXHAUST FAN CONTROL POINTS	
Reference	Point Name
EXF	Exhaust Fan Start/Stop
EXFST	Exhaust Fan Start/Stop
EXFSC	Exhaust Fan Speed Control
EXFSC	Exhaust Fan Speed Control
EXFST	Exhaust Fan Status
EXFST	Exhaust Fan Status

6 EXHAUST FAN WITH BACKDRAFT DAMPER CONTROLS (TYPICAL OF EACH) NOT TO SCALE



FILE JOB NO. PROJECT MGR. MECHANICAL PLUMBING ELECTRICAL  
2302-001 SCOTT BROWN, KRISTIN BURKE MITCHELL HENTON CHRIS WOODWARD KYIE HOUNG  
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DALLAS, TX

**TREANORHL**

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**D. SCOTT BROWN**  
89097  
LICENSED PROFESSIONAL ENGINEER

2-6-2024

**UNIVERSITY OF NORTH TEXAS**

**KERR HALL INTERIOR RENOVATION**

1413 West Maple St  
Denton, TX 76201

**UNT**  
UNIVERSITY OF NORTH TEXAS

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**Issued For:** 100% ISSUE FOR CONSTRUCTION  
**Date:** FEBRUARY 6, 2024

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NO	DESCRIPTION	DATE

**iM701**

**CONTROLS DETAILS**

TreanorHL NO. HE0569-2302-01

39 of 80







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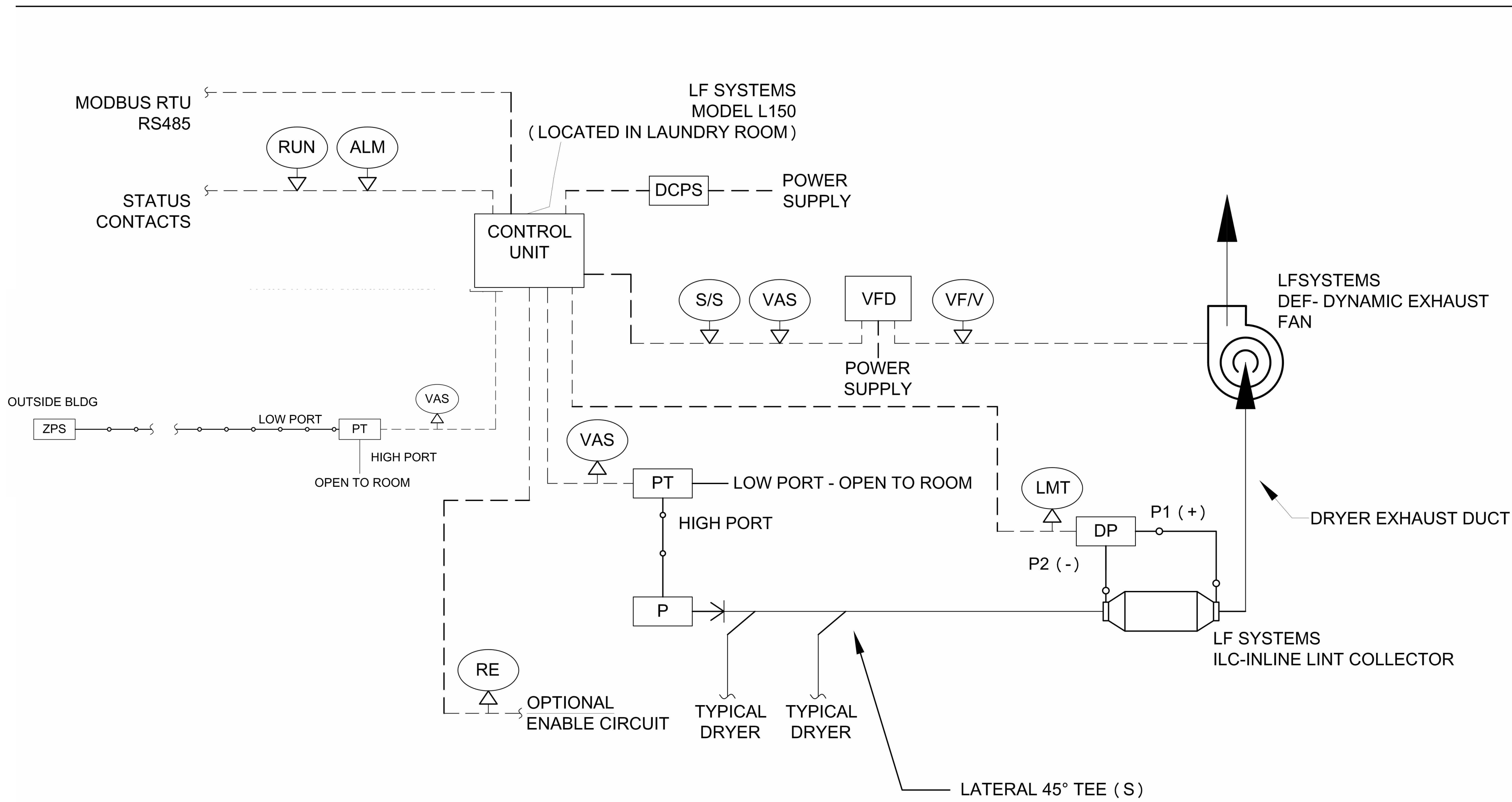
E

D

C

B

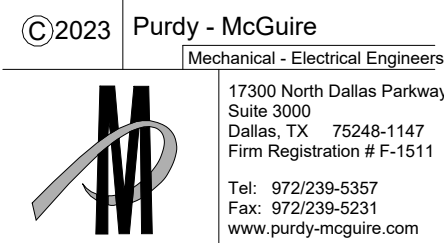
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#### LEF-L1-1 SEQUENCE OF OPERATION

1. UPON AN ENABLE COMMAND, THE CONTROL UNIT SHALL ACTIVATE THE DEF- MULTI USE EXHAUST FAN TO ESTABLISH REQUIRED PRESSURE IN THE DUCT SYSTEM. THE SUPPLY AIR FAN SHALL START TO ESTABLISH THE REQUIRED PRESSURE IN THE ROOM FOR COMBUSTION AIR. ALL EXTERNAL MECHANICAL LIMITS ARE MONITORED FOR STATUS. ONCE ALL THESE CONDITIONS ARE MET THE CONTROL SYSTEM WILL ENTER RUN MODE.
2. LAUNDRY EXHAUST FAN AND SUPPLY FAN IN AHU-A1-5 TO BE CONNECTED VIA MODBUS CONNECTION AT THE CONTROL UNIT AND INTERLOCKED. SYSTEM TO BE MONITORED VIA BMS SYSTEM LOCATED ON SITE. AS THE SYSTEM LOAD INCREASES OR DECREASES THE CONTROL UNIT WILL ADJUST BOTH THE LEF FAN AND AHU SUPPLY FAN OUTPUT TO MAINTAIN SET EXHAUST DUCT PRESSURE AND THE SUPPLY AIR FAN TO MAINTAIN ROOM PRESSURE. WHEN AN INTERMITTENT MODE OF OPERATION IS DESIRED BASED ON DIRECT DYER COMMAND, CURRENT SENSORS WILL BE INSTALLED ON EACH OF THE DYERS' MOTOR LOAD LINES IN PARALLEL TO ENABLE AND DISABLE THE CONTROL UNIT.
3. IF PROPER EXHAUST DUCT PRESSURE CANNOT BE MAINTAINED OR AN EXTERNAL MECHANICAL LIMIT OPENS BECAUSE OF MECHANICAL OR ELECTRICAL FAILURE, THE CONTROL UNIT WILL GO IN ALARM MODE AND ANNUNCIATE THE CONDITION. WHILE IN ALARM MODE, THE CONTROL UNIT CONSTANTLY MONITORS THE PRESSURE AND LIMIT INPUTS. IF THE FAILURE CORRECTS ITSELF OR IS CORRECTED VIA INTERVENTION, THE SYSTEM WILL RETURN TO NORMAL OPERATION AUTOMATICALLY.
5. WHEN DRYERS SHUT DOWN THE MEF FAN AND SUPPLY AIR FAN WILL WILL CONTINUE TO RUN IN POST-PURGE MODE FOR A SET PERIOD OF TIME TO REMOVE RESIDUAL EXHAUST DUCT GASES. ONCE THE POST-PURGE CYCLE IS COMPLETED THE SYSTEM SECURES AND THE CONTROL UNIT ENTERS STAND-BY MODE.
6. ATC CONTRACTOR, MECHANICAL CONTRACTOR, EQUIPMENT MANUFACTURER, GENERAL CONTRACTOR, DESIGN ENGINEER, AND COMMISSIONING ENGINEER SHALL MEET PRIOR TO SUBMITTING SHOP DRAWINGS TO REVIEW COORDINATION AND IMPLEMENTATION OF THE SPECIFIED CONTROL SEQUENCE.

Draft Inducer Voltage:	
208-230/460 3PH	
LFSystems	
Phone: ( 800 ) 881-0052    LFSystems.net	
	Controller Output
	Controller Input
---	Field Wiring Refer to specifications for voltage, amperage, and wiring type
-○-	Pneumatic Tubing for pressure reference
---	Vent or Duct
ALM	Alarm output dry contact
DCPS	24 VDC power supply
P	Duct pressure probe
PT	Pressure transducer -1 to 1 in. WC
PVR	Supply fan proving device CS75 Current Switch or GFS Differential Pressure Switch
RE	Remote enable input of controller
RUN	Run status dry contact
S/S	Start/Stop: VFD run command
VAS	Variable analog signal 0-10VDC
VFD	Variable Frequency Drive
VF/V	Variable Frequency and Voltage output
DP	Differential Pressure Switch
LMT	Limit 3.3 VDC sinking input
ZPS	Outdoor Air Static Pressure Pickup Port



THE JOB NO.  
PROJECT MGR  
MECHANICAL  
PLUMBING  
ELECTRICAL  
2302-001  
SCOTT BROWN, KRISTIN BURKE  
MITCHELL HENTON  
CHRIS WOODWARD  
KYLE ROURE  
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REVISIONS		
NO	DESCRIPTION	DATE

iM703  
CONTROLS - LAUNDRY ROOM EXHAUST FAN

TreanorHL NO. HE0569-2302-01



POWER GENERAL NOTES:

- A. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE SERVICE UTILITY COMPANY.
- B. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR DEVICE MOUNTING HEIGHTS AND DIMENSIONED LOCATIONS PRIOR TO ROUGH-IN.
- C. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL NOTES, SYMBOLS AND DETAILS.
- D. EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY AND EXISTING DRAWINGS. HOWEVER, IT IS NOT INTENDED TO BE AN EXACT REPRESENTATION OF ACTUAL CONDITIONS. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS (WHICH INCLUDE BUT ARE NOT LIMITED TO BREAKER SIZES, WIRE SIZES, CONDUIT SIZES, ETC.) PRIOR TO PURCHASING ANY ELECTRICAL EQUIPMENT. ELECTRICAL CONTRACTOR SHALL ALSO FIELD VERIFY PANEL BOARDS TO MAKE SURE THE QUANTITY OF SPACES FOR CIRCUIT BREAKERS IS SUFFICIENT PER ENGINEERS DESIGN. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING TO ASCERTAIN EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BID.
- E. CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES PRIOR TO ROUGH-IN.
- F. NO CONDUCTORS SMALLER THAN AWG #12 SHALL BE USED FOR POWER CIRCUITS GREATER THAN 24 VOLTS AC.
- G. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT WIRE SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS NOTED OTHERWISE.
- H. ALL CONDUCTORS GREATER THAN #12 IN LENGTH SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% OVER THE TOTAL LENGTH OF THE CIRCUIT CALCULATED AT 80% OF FULL LOAD OF THE OVERCURRENT DEVICE PROTECTING THE CONDUCTOR. CONTRACTOR SHALL PROVIDE PIC-TAIL OR ENCLOSED TERMINATION BLOCKS AS REQUIRED TO LAND CIRCUITS ON DEVICES OR EQUIPMENT.
- I. ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE.
- J. NEUTRAL CONDUCTORS SHALL NOT BE SHARED BETWEEN MULTIPLE SINGLE PHASE CIRCUITS. EACH SINGLE PHASE CIRCUIT SHALL HAVE A FULL SIZE DEDICATED NEUTRAL CONDUCTOR.
- K. ALL INTERIOR ELECTRICAL HOMERUNS FROM PANELBOARD TO FIRST J-BOX OR DEVICE SERVED SHALL BE IN EMT CONDUIT. THE CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM THE OWNER TO USE ANY AMOUNT OF MC CABLE (FLEXIBLE METAL CLAD CABLE). IF THE OWNER DOES ALLOW MC CABLE, IT IS ONLY ALLOWED FOR FINAL CONNECTIONS TO LIGHT FIXTURES IN THE PLENUM, OR CABLE CONNECTIONS TO 120V ELECTRICAL DEVICES IN THE WALLS. NO SEGMENT OF MC CABLE SHALL EVER EXCEED SIX FEET IN LENGTH. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND RESTRICTIONS.
- L. ALL LOW VOLTAGE WIRING INSTALLED IN CEILING SPACE THAT IS ALSO USED IN AIR PLENUM SHALL BE PLENUM RATED CONDUCTOR. WHERE OWNER'S CONSTRUCTION STANDARDS REQUIRE THAT LOW VOLTAGE WIRING BE RUN IN CONDUIT, CONDUIT SHALL BE PROPERLY LABELED AND SUPPORTED.
- M. FLEXIBLE CONDUIT SHALL ONLY BE USED FOR LIGHTING FIXTURE WHIPS AND MOTOR CONNECTION. ANY OTHER USE MUST FIRST BE ALLOWED IN WRITING BY THE ENGINEER PRIOR TO INSTALLATION.
- N. FLEXIBLE CONDUIT LONGER THAN SIX FEET SHALL NOT BE ALLOWED EXCEPT WHERE SPECIFICALLY AUTHORIZED IN WRITING.
- O. ALL SPARE CONDUITS AND EMPTY CONDUITS SHALL HAVE A PULL STRING INSTALLED FOR FUTURE USE. PULL STRING SHALL BE SECURED AT EACH END TO PREVENT ACCIDENTAL REMOVAL.
- P. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SELECTION OF OVERCURRENT PROTECTIVE DEVICES BASED ON CALCULATED PROSPECTIVE FAULT ENERGY AT EACH PANELBOARD PER SPECIFICATION SECTION 26 14 16 AND PROVIDE DEVICES MEETING REQUIRED SHORT CIRCUIT INTERRUPTING CAPACITIES (AIC RATING). PROVIDE OVERCURRENT PROTECTIVE DEVICE PER COORDINATION STUDY PER SPECIFICATION SECTION 26 24 16. THIS MAY BE DONE USING MANUAL METHODS FOR SIMPLE SYSTEMS. HOWEVER, THE USE OF RECOGNIZED COMPUTER PROGRAMS THAT HAVE BEEN VALIDATED SHOULD BE USED FOR LARGER SYSTEMS. THE RESULTS OF THESE COMPUTATIONS AND GRAPHICAL SOLUTIONS SHALL BE SUBMITTED TO THE ENGINEER WHEN DISTRIBUTION EQUIPMENT ARE SUBMITTED. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE SERVICE UTILITY COMPANY.
- Q. PANELBOARD DIRECTORIES SHALL BE COMPLETELY FILLED OUT TO ACCURATELY IDENTIFY EACH CIRCUIT (EXISTING IF APPLICABLE AND NEW CIRCUITS) IN ALL PANELS WITHIN THE SCOPE OF WORK. OBTAIN BUILDING MANAGEMENT/OWNER'S APPROVAL OF IDENTIFICATION. DIRECTORIES SHALL BE TYPEWRITTEN.
- R. ALL ELECTRICAL PANELS, TRANSFORMERS, SWITCH BOARDS, MOTOR CONTROL CENTERS AND ALL OTHER ELECTRICAL EQUIPMENT SHALL BE LABELED WITH AN ENGRAVED NAMEPLATE INDICATING THE EQUIPMENT DESIGNATION.
- S. ELECTRIC CONNECTIONS TO PANELBOARDS AND BUS DUCTS SHALL BE MADE ONLY WHEN PANELBOARD OR BUS DUCT HAS BEEN DE-ENERGIZED. SCHEDULE DOWN TIME WITH BUILDING MANAGEMENT/OWNER.
- T. JUNCTION BOXES AND/OR DEVICE BOXES SHALL NOT BE MOUNTED BACK TO BACK WHEN FLUSH MOUNTED IN A WALL. JUNCTION BOXES AND/OR DEVICE BOXES FLUSH MOUNTED ON OPPOSITE SIDES OF A WALL SHALL NOT BE INSTALLED IN THE SAME STUD SPACE.
- U. ALL RECEPTACLES MOUNTED ABOVE OR BELOW KITCHEN COUNTERS OR COUNTERS WITH A SINK OR ANY OTHER WATER DISPENSING MECHANISM SHALL BE GFCI PROTECTED. ALL RECEPTACLES INSTALLED IN AN OUTDOOR LOCATION OR INTENDED TO PROVIDE POWER FOR VENDING MACHINES SHALL BE GFCI TYPE DEVICES.
- V. ELECTRICAL CONTRACTOR SHALL PROVIDE A 4"x4"x2-5/8" STEEL JUNCTION BOX WITH SINGLE GANG MUD RING AND 1" METAL CONDUIT TO A MINIMUM OF 4" ABOVE FINISHED CEILING IN ACCESSIBLE CEILING FOR ALL TEL DATA DEVICES SHOWN ON DRAWINGS. COORDINATE EXACT DEVICE LOCATION WITH OWNER'S IT REPRESENTATIVE AND ARCHITECT. PROVIDE A PULL STRING INSTALLED FOR FUTURE USE. PULL STRING SHALL BE SECURED AT EACH END TO PREVENT ACCIDENTAL REMOVAL.
- W. ELECTRICAL CONTRACTOR SHALL PROVIDE A 4"x4"x2-5/8" STEEL JUNCTION BOX WITH SINGLE GANG MUD RING AND 3/4" METAL CONDUIT TO A MINIMUM OF 4" ABOVE FINISHED CEILING IN AN ACCESSIBLE CEILING FOR ALL THERMOSTATS AND SENSORS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR AND ARCHITECT. PROVIDE A PULL STRING INSTALLED FOR FUTURE USE. PULL STRING SHALL BE SECURED AT EACH END TO PREVENT ACCIDENTAL REMOVAL.
- X. WIRING FOR SYSTEMS FURNITURE SHALL BE COORDINATED WITH FURNITURE WIRING REQUIREMENTS PRIOR TO ROUGH-IN. IF SYSTEM FURNITURE WIRING REQUIRES SHARING OF NEUTRAL CONDUCTORS, THE CONTRACTOR SHALL CONFIRM WITH THE OVERCURRENT PROTECTIVE DEVICE AT THE PANEL SUPPLYING POWER TO THE CIRCUITS SUCH THAT IF ONE CIRCUIT IS INTERRUPTED ALL CIRCUITS SHARING THAT SAME NEUTRAL CONDUCTOR ARE ALSO INTERRUPTED. THIS CAN BE DONE WITH MULTI-POLE CIRCUIT BREAKERS OR UL LABELED HANDLE TIES. THE PANEL SCHEDULE SHALL INDICATE WHERE CIRCUITS HAVE BEEN CONFIGURED TO TRIP TOGETHER.
- Y. WIRING AT EXPOSED STRUCTURE: AT ALL LOCATIONS WHERE THERE IS NO CEILING, ALL WIRES / CABLES SHALL BE INSTALLED IN CONDUIT (INCLUDING ALL FIRE ALARM, TECHNOLOGY, SECURITY, BMS, ETC). ALL CONDUITS SHALL BE PROVIDED AS PART OF THIS CONTRACT. CONDUITS SHALL BE INSTALLED AS HIGH AS POSSIBLE IN A NEAT AND PROFESSIONAL MANNER, RUNNING LEVEL AND PARALLEL TO THE LINES OF THE BUILDING.
- Z. ELECTRICAL AND FIRE ALARM CONTRACTOR SHALL REFERENCE THE MECHANICAL FRONT SHEET M0.01 FOR "MEP SHARED SYSTEM COORDINATION SCOPE OF WORK MATRIX".
- AA. LOW VOLTAGE COORDINATION: REFER TO TECHNOLOGY DRAWINGS FOR ALL DIVISION 26 RESPONSIBILITIES REGARDING ROUGH-IN, POWER REQUIREMENTS, AND OTHER COORDINATION ITEMS FOR IT, SECURITY, AV AND OTHER LOW VOLTAGE SYSTEMS.
- AB. COORDINATE ALL CEILING MOUNTED ITEMS WITH ARCHITECTURAL REFLECTED PLANS (RCP). IF ARCHITECTURAL RCP DOES NOT INDICATE THE LOCATION FOR ANY CEILING MOUNTED ITEMS, CONFIRM WITH ARCHITECT THE EXACT LOCATION PRIOR TO INSTALLATION.
- AC. REFER TO MECHANICAL SHEETS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT.
- AD. ANY CONDUIT THAT IS ROUTED UNDERGROUND OR IN-SLAB SHALL BE A MINIMUM OF 1" CONDUIT.
- AE. ALL EXISTING CIRCUITS WITHIN THE SCOPE OF WORK AREA THAT ARE NOT REUSED FOR THIS REMODEL SHALL BE REMOVED BACK TO THE PANELS AND THE PLACARDS SHALL INDICATE THE BREAKERS AS SPARES.
- AF. CONTRACTOR SHALL RELOCATE ELECTRICAL CONNECTIONS ASSOCIATED WITH ALL RELOCATED MECHANICAL EQUIPMENT. REFER TO HVAC AND PLUMBING PLANS AND COORDINATE FINAL LOCATIONS WITH MECHANICAL CONTRACTOR IN THE FIELD.
- AG. WHERE REQUIRED PER NEC 406.12(4), RECEPTACLES SHALL BE LISTED AS TAMPER-RESISTANT TYPE.
- AH. CONTRACTOR SHALL PROVIDE A 120V CIRCUIT TO EACH VAV BOX INDICATED ON HVAC PLAN FOR CONNECTION OF CONTROLS. CIRCUIT NO MORE THAN FIVE (5) BOXES PER ONE (1) 20 AMP, 120V CIRCUIT.
- AI. CONTRACTOR SHALL COORDINATE RELOCATION OF ELECTRICAL SERVICE TO ALL VAV AND FFB'S BEING RELOCATED UNDER THIS PROJECT, WITH ALL OTHER DISCIPLINES INVOLVED.
- AJ. TELEPHONE/DATA SUBCONTRACTOR SHALL COORDINATE THE TELEPHONE/DATA INSTALLATION WITH ALL OTHER SUBCONTRACTORS AND SHALL BEAR ANY COST ASSOCIATED FOR THE RELOCATION OF ANY TELEPHONE/DATA INSTALL WHICH CONFLICTS WITH OTHER CONTRACTOR'S EQUIPMENT.
- AK. FIRE ALARM CONTRACTOR SHALL PROVIDE 24V TRANSFORMER FOR UP TO 5 FIRE/SMOKE DAMPERS. PROVIDE CONTROL WIRE TO EACH DAMPER. REFER TO THE HVAC PLANS FOR LOCATIONS. FIRE/SMOKE DAMPERS SHALL INTERFACE WITH FIRE ALARM SYSTEM. UTILIZE CIRCUIT AS SHOWN ON PLANS.
- AL. FIRE ALARM STROBE LIGHTS, SPEAKERS AND SMOKE DETECTORS SHALL BE TIED INTO EXISTING FIRE ALARM SYSTEM.

ELECTRICAL ALLOWANCES:

- SECURITY
  - PROVIDE JUNCTION BOX FOR CARD READER AT EACH EXTERIOR DOOR AND AT EACH ELEVATOR BANK WITH 1" CONDUIT AND PULLSTRING UP TO ABOVE NEAREST ACCESSIBLE CEILING.
  - PROVIDE (1) 120V/20A DEDICATED OUTLET IN EACH ELECTRICAL ROOM FOR SECURITY POWER.
  - PROVIDE 120V/20A POWER TO (1) BLUEPHEON IN MIDDLE OF EACH LEVEL OF PARKING GARAGE. PROVIDE 1" CONDUIT AND PULLSTRING FOR DATA TO EACH LOCATION.
  - PROVIDE 1" CONDUIT AND PULLSTRING TO SECURITY CAMERAS. ASSUME (2) EXTERIOR CAMERAS ON EACH SIDE OF THE BUILDING AND (6) CAMERAS PER LEVEL OF THE PARKING GARAGE.
- TELECOM AND AV
  - PROVIDE (3) 4" CONDUITS FOR TELECOM INTO THE BUILDING. CONDUITS SHOULD EXTEND FROM FURTHEST EDGE OF SITE AND STUB UP IN MDF ROOM. IF MDF ROOM IS NOT SHOWN ON PLANS, CONDUITS SHOULD STUB UP IN MAIN ELECTRICAL ROOM. PROVIDE 4X8 PLYWOOD BACKBOARD AND A DEDICATED 120V/20A GROUND RECEPTACLE.
  - PROVIDE (4) 4" PVC SLEEVES BETWEEN FLOORS LOCATED IN EACH IDF ROOM FOR FUTURE TELECOM BETWEEN FLOORS.
  - PROVIDE POWER TO CEILING MOUNTED PROJECTOR AND MOTORIZED PROJECTION SCREEN WITH WALL MOUNTED SWITCH IN EACH CONFERENCE ROOM.
  - PROVIDE POWER AND DATA CONDUIT FOR (4) TV'S PER FLOOR.

- FIRE ALARM
  - FIRE ALARM ANNUNCIATOR PANEL SHALL BE LOCATED AT THE BUILDING MAIN ENTRANCE. FIRE ALARM CONTROL PANEL SHALL BE LOCATED AS SHOWN ON THE PLANS.
  - PROVIDE (1) 120V/20A DEDICATED CIRCUIT TO EACH ELECTRICAL ROOM FOR FIRE ALARM BOOSTER PANEL.
- FIRE SMOKE DAMPERS
  - PROVIDE DEDICATED 120V/20A CIRCUIT IN EACH ELECTRICAL ROOM TO PROVIDE POWER FOR FIRE SMOKE DAMPERS. POWER SHOULD BE RUN FROM PANEL TO 24V TRANSFORMER (PROVIDED BY FIRE ALARM CONTRACTOR) TO SERVE FIRE SMOKE DAMPERS

- LIGHTING
  - ALL AREAS NOT DEFINED BELOW: PROVIDE ALL NEW LED LIGHTING THROUGHOUT THE SPACE AREA. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LIGHTING INTENT.
  - EXIT SIGNS: PROVIDE AND INSTALL EDGE LIT LED EXIT SIGNS WITHIN THE PATH OF EGRESS SUCH THAT ANY LOCATION WITHIN THE PATH OF EGRESS HAS TWO EXIT SIGNS WITHIN SIGHT AND THERE IS AN EXIT SIGN AT LEAST EVERY 100FT.
  - MECHANICAL/ELECTRICAL ROOMS: PROVIDE 1X4 SUSPENDED STRIP FIXTURES AT 8' ON CENTER.
  - STAIRWELLS: PROVIDE (2) 4FT (OR (1) 8FT) WALL MOUNTED LED FIXTURES AT EACH LANDING AND INTERMEDIATE LANDING. THE BACK OF EACH STAIR TREAD SHALL HAVE A MINIMUM OF 10 FC (PER NFPA 14.12.1.3).
- LIGHTING CONTROLS
  - REFER TO LIGHTING CONTROLS NARRATIVE ON THIS SHEET.

- CONTROLS POWER
  - PROVIDE (1) 120V/20A DEDICATED CIRCUIT FOR BMS CONTROLS IN EACH ELECTRICAL ROOM. BMS CONTROLLER SHALL BE LOCATED IN EACH ELECTRICAL ROOM.
  - PROVIDE (5) 120V/20A DEDICATED CIRCUITS FOR POWER TO VAV BOXES FOR EACH FLOOR. POWER SHOULD BE ROUTED TO 24V TRANSFORMERS NEAR EACH GROUP OF VAV BOXES

GENERAL FIRE ALARM NOTES

- A. THE CONTRACTOR SHALL DESIGN, PROVIDE, AND INSTALL ADDITIONAL DEVICES AND SYSTEM COMPONENTS TO THE EXISTING FIRE ALARM SYSTEM SO THAT THE TOTAL SYSTEM IS A COMPLETE FIRE ALARM SYSTEM THROUGHOUT THE CONTRACT AREA. THE CONTRACTOR SHALL BE A FIRM LICENSED TO DESIGN AND INSTALL FIRE ALARM SYSTEMS IN THE PHYSICAL JURISDICTION IN WHICH THE SYSTEM IS TO BE INSTALLED. THE SYSTEM SHALL HAVE ALL CREDENTIALS AND PROOF OF REQUIRED INSURANCE SUBMITTED WITH THE BID DOCUMENTS.
- B. COMPLETE FIRE ALARM PLANS AND EQUIPMENT CUT SHEETS FOR ALL FIRE ALARM EQUIPMENT SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW, APPROVAL AND PERMIT PRIOR TO INSTALLATION. SUBMITTAL DOCUMENTS SHALL INCLUDE VOLTAGE DROP CALCULATIONS FOR ALL FIRE ALARM CONDUCTORS. THESE SAME DOCUMENTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW TO ENSURE THE SYSTEM DOES NOT, WITHIN THE LIMITS OF APPLICABLE CODES AND REQUIREMENTS, CONFLICT WITH THE ARCHITECTURAL INTENT OF THE FACILITY.
- C. THE COMPLETED FIRE ALARM SYSTEM SHALL BE AN INTELLIGENT ADDRESSABLE SYSTEM AND SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS. ALL DEVICES AND EQUIPMENT INSTALLED AS PART OF THIS CONTRACT WORK SHALL MATCH AS CLOSELY AS POSSIBLE THE EXISTING SYSTEM AND SHALL BE INTEGRATED COMPLETELY INTO THE EXISTING SYSTEM. THE SYSTEM SHALL INCLUDE ALL DEVICES SUCH AS, BUT NOT LIMITED TO, FLOW AND TAMPER SWITCHES, CEILING MOUNTED SMOKE DETECTORS, CEILING MOUNTED HEAT DETECTORS, DUCT SMOKE DETECTORS IN THE SUPPLY AND/OR RETURN DUCTS AS REQUIRED BY CODE AND BY THE LOCAL AUTHORITY HAVING JURISDICTION. DETECTORS AT ALL FIRE/SMOKE DAMPERS, SHUNT/TRIP CONTROL OF ELEVATORS, NOTIFICATION DEVICES AS REQUIRED BY APPLICABLE CODE, LOCAL AUTHORITY HAVING JURISDICTION, AND OWNER'S DESIGN STANDARDS. NOTIFICATION DEVICES SHALL BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT AND ALL OTHER SUCH LOCAL CODES.
- D. ALL NEW DEVICES AND EQUIPMENT SHALL BE FULLY INTEGRATED INTO THE EXISTING FIRE ALARM SYSTEM AND THE FIRE ALARM CONTROL PANEL SHALL BE PROGRAMMED BY A FACTORY AUTHORIZED PROGRAMMER TO FUNCTION AS DESIGNED WITH THE NEW DEVICES AND EQUIPMENT.
- E. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL APPLICABLE CODES, REQUIREMENTS BY THE LOCAL AUTHORITY HAVING JURISDICTION, AND OWNER STANDARDS FOR CONSTRUCTION AND OPERATION OF FIRE ALARM SYSTEMS. ANY CHANGES TO THE FINAL INSTALLATION DUE TO THE CONTRACTOR NOT HAVING BEEN AWARE OF ANY OF THE ABOVE, SHALL BE MADE AT NO COST TO THE OWNER.

GENERAL DEMOLITION SCOPE:

- A. THE EXISTING MAIN SERVICE SWITCHBOARD AND ALL DOWNSTREAM DISTRIBUTION PANELS NOT NOTED TO BE REMOVED ARE TO REMAIN.
- B. ALL EXISTING LIGHT FIXTURES IN THE CONTRACT AREA SHALL BE REMOVED FROM ALL CEILING SPACES ALONG WITH ASSOCIATED CONDUITS, CONDUCTORS, AND CONTROLS.
- C. ALL EXISTING "HARD-WIRED" EQUIPMENT IN THE EXISTING CONTRACT AREA THAT IS TO BE REMOVED SHALL BE DISCONNECTED FROM THE ELECTRICAL POWER SYSTEM AND RESPECTIVE CONDUITS AND CONDUCTORS SHALL BE REMOVED BACK TO THEIR RESPECTIVE SOURCE.
- D. ALL WIRING DEVICES IN THE CONTRACT AREA SHALL BE REMOVED ALONG WITH ASSOCIATED CONDUITS AND CONDUCTORS BACK TO THEIR RESPECTIVE SOURCES. POWER SHALL BE RESTORED TO ANY REMAINING DEVICES ON THE SAME CIRCUIT AS THOSE BEING REMOVED.
- E. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR TO REMOVE ANY CONDUITS, CONDUCTOR, SWITCHES, AND CONNECTIONS FOR ALL MECHANICAL EQUIPMENT TO BE REMOVED, BACK TO THE SOURCE OF THE RESPECTIVE ELECTRICAL SOURCE.

LIGHTING GENERAL NOTES:

- A. MOUNT LIGHT SWITCHES AS INDICATED ON ARCHITECTURAL DRAWINGS (48" AFF UNLESS NOTED OTHERWISE).
- B. ALL GANGED SWITCHES SHALL HAVE A COMMON SEAMLESS FACEPLATE. EACH MULTI-GANG BOX SHALL BE NO MORE THAN SIX (6) SWITCHES WIDE. WHERE MORE THAN SIX (6) SWITCHES ARE SHOWN AT ONE LOCATION, ADDITIONAL MULTI-GANG BOXES SHALL BE STACKED VERTICALLY AND THE WIDTH OF THE MULTI-GANGS SHALL BE AS EVEN AS POSSIBLE.
- C. EACH DIMMER SWITCH SHALL HAVE A WATTAGE RATING 25% HIGHER THAN THE TOTAL WATTAGE OF ALL LIGHTS THE CONTROLLER IS TO CONTROL THE DIMMER.
- D. WHERE FIXTURES ARE SHOWN TO BE DIMMED, THE DIMMERS SHALL HAVE THE DIMMING TYPE MATCHING THAT OF THE SPECIFIED FIXTURES.
- E. ALL EMERGENCY LIGHT FIXTURES SHALL BE FED FROM EXISTING EMERGENCY LIGHTING CIRCUITS UNLESS NOTED OTHERWISE.
- F. ALL EXIT SIGNS SHALL BE FED FROM EXISTING EXIT SIGN CIRCUITS EXCEPT AS OTHERWISE NOTED.
- G. WHEN SPECIFIC LIGHT FIXTURE TYPE HAS BEEN SPECIFIED IN THE FIXTURE INFORMATION, ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE ASSEMBLY INCLUSIVE OF ALL PARTS AND HARDWARE.
- H. ALL EXIT SIGNS SHALL BE SELF TESTING. ALL EMERGENCY LIGHTING WITH INDIVIDUAL BATTERIES (IF PRESENT IN THE PROJECT) SHALL BE SELF TESTING.
- I. ALL LIGHT FIXTURES SHALL HAVE SEPARATE GROUNDING CONDUCTORS. INTEGRAL GROUNDING IN LUMINAIRE IS NOT ACCEPTABLE.
- J. COORDINATE ALL CEILING MOUNTED ITEMS WITH ARCHITECTURAL REFLECTED PLANS (RCP). IF ARCHITECTURAL RCP DOES NOT INDICATE THE LOCATION FOR ANY CEILING MOUNTED ITEMS, CONFIRM WITH ARCHITECT THE EXACT LOCATION PRIOR TO INSTALLATION.
- K. FINAL MOUNTING LOCATION OF OCCUPANCY SENSORS WILL BE PROVIDED BY EQUIPMENT MANUFACTURER. DEVICES SHOWN ON PLAN ARE FOR REFERENCE AND DO NOT NECESSARILY INDICATE EXACT MOUNTING LOCATION.

LIGHTING CONTROL NARRATIVE:

THE FOLLOWING SUMMARY PROVIDES THE DESIGN INTENT FOR LIGHTING CONTROLS AND ZONES THAT COMPLIES WITH THE ENERGY CODE LISTED ON THIS SHEET UNDER THE "ELECTRICAL APPLICABLE CODE". NOTE: ALTHOUGH THE DESIGN IS AROUND A SPECIFIC MANUFACTURER'S SYSTEM, THE LIGHTING CONTROL SYSTEM IS NOT RESTRICTED TO BEING PROVIDED BY THAT MANUFACTURER REFER TO SPECIFICATIONS FOR OTHER ACCEPTABLE MANUFACTURERS. THE SPECIFIC MANUFACTURER'S SYSTEM IS SHOWN TO CONVEY THE INTENDED LEVEL OF QUALITY AND CAPABILITY OF THE SYSTEM.

GENERAL LIGHTING CONTROLS REQUIREMENTS:

SEQUENCE OF OPERATIONS-REQUIRED IN SUBMITTAL:

- A NARRATIVE DESCRIPTION OR MATRIX OF THE SEQUENCE OF OPERATIONS FOR EACH SPACE IN SHALL BE INCLUDED IN THE CONTROLS SUBMITTAL. IN ADDITION TO THE DIAGRAMS AND PRODUCT DATA, ANY CONTROLS SUBMITTAL WITHOUT CLEAR NARRATIVES OR A MATRIX OF THE CONTROLS IN EACH SPACE (THAT A LAY PERSON COULD UNDERSTAND) WILL BE REJECTED AND REQUIRED TO BE RESUBMITTED WITH NARRATIVES.

POWER COORDINATION:

- CONTRACTOR SHALL PROVIDE DEDICATED POWER TO LIGHTING CONTROL SYSTEM PROCESSORS, GATEWAYS, AND ALL NECESSARY ACCESSORIES AS REQUIRED BY SPECIFIC LIGHTING CONTROL MANUFACTURER.

PLUG LOAD CONTROLS:

- THIS PROJECT HAS PLUG LOAD CONTROLS THROUGHOUT THE SPACES LISTED BELOW AS REQUIRED BY IECC. REFER TO THE ELECTRICAL FLOOR PLANS FOR NUMBER AND LOCATION OF RECEPTACLES THAT NEED TO BE CONTROLLED VIA LIGHTING CONTROLS OCCUPANCY SENSORS.
- PRIVATE OFFICES
- CONFERENCE ROOMS
- PRINT/COPY ROOMS
- BREAKROOMS
- CLASSROOMS
- INDIVIDUAL WORKSTATIONS - INCLUDING THOSE INSTALLED IN MODULAR FURNITURE.

WIRELESS REQUIREMENTS:

- BOTH WIRED AND WIRELESS LIGHTING CONTROLS ARE ACCEPTABLE, WITH CONDITIONS:
  - ANY LIGHTING CONTROL SYSTEM MUST FULLY COMPLY WITH THIS NARRATIVE SEQUENCE OF OPERATIONS TO BE ACCEPTABLE.
  - IF THE SYSTEM IS WIRELESS, NO ONLY BATTERY POWERED DEVICES ARE ALLOWED. ALL ITEMS NEEDING POWER SHALL BE HARDWIRED TO THAT POWER. BATTERIES ARE ALLOWED AS BACKUP TO THE HARDWIRED POWER, BUT BATTERIES ALONE FOR POWER IS NOT ACCEPTABLE. ONLY THE COMMUNICATION BETWEEN DEVICES IS ALLOWED TO BE WIRELESS.

COMMISSIONING AGENT:

- THE LIGHT FIXTURES AND LIGHTING CONTROLS SHALL HAVE THE SAME MANUFACTURER.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE A SINGLE POINT OF CONTACT FOR THE TENANT AND OWNER DURING LIGHTING AND LIGHTING CONTROLS COMMISSIONING.

MINIMUM REQUIRED SEQUENCE OF OPERATIONS (SOO) BY SPACE TYPE:

ELECTRICAL, MECHANICAL, MDP/IDF/DATA ROOMS

- PROVIDE SINGLE POLE SWITCH ADJACENT TO DOOR. AUTOMATIC CONTROL SHALL NOT BE REQUIRED FOR SAFETY REASONS.

RESTROOMS

- PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSOR AND LOW VOLTAGE SWITCH AS INDICATED ON ELECTRICAL PLANS.
- LIGHTING SHALL BE AUTOMATIC ON, AND AUTOMATIC OFF.
- ALL ZONES SHALL BE DIMMABLE.
- EMERGENCY LIGHTS SHALL ACT AS NIGHT LIGHTS AND SHALL BE UNSWITCHED.

LOBBIES AND CORRIDORS, IECC 2021

- NORMAL HOURS (6AM-6PM): ALL LIGHTING ZONES SHALL AUTOMATICALLY TURN ON TO 100% WHEN THE CORRIDOR IS OCCUPIED AND DIM TO 50% AFTER 20 MINUTES OF NO ACTIVITY (UNOCCUPIED) AS SENSED FROM DUAL TECHNOLOGY VACANCY SENSORS.
- AFTER HOURS: ALL LIGHTING ZONES SHALL AUTOMATICALLY TURN ON TO 100% WHEN THE CORRIDOR IS OCCUPIED AND TURN OFF WHEN THE CORRIDOR IS UNOCCUPIED.
- THOSE TIMES AND DIM SETTINGS SHALL BE ADJUSTABLE BY THE TENANT OR OWNER.
- ALSO REFER TO THE DAYLIGHTING SECTION OF THIS NARRATIVE WHERE APPLICABLE.
- ALL ZONES SHALL BE DIMMABLE.
- SELECT EMERGENCY LIGHTS SHALL ACT AS NIGHT LIGHTS AND SHALL BE UNSWITCHED. ALL OTHER EMERGENCY LIGHTS SHALL BE CONTROLLED WITH ADJACENT LIGHTING VIA UL924 DEVICES. PROVIDE DIMMING TYPE UL924 DEVICES.

OPEN OFFICES, IECC 2021

- PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSORS AND LOW VOLTAGE KEYPADS (OR TOUCHSCREENS) AS INDICATED ON ELECTRICAL PLANS.
- ALL ZONES SHALL BE DIMMABLE.
- THERE SHALL BE A MANUAL USER OVERRIDE KEYPAD (OR TOUCHSCREEN) WITHIN THE OPEN OFFICE SPACE.
- THE OPEN OFFICE SHALL BE BROKEN UP INTO 600 SQFT OR LESS CONTROL ZONES WITH SEPARATE OCCUPANCY SENSORS FOR EACH ZONE.
- WHEN A ZONE IS OCCUPIED IT SHALL AUTOMATICALLY COME ON TO 100%. ALL OTHER SURROUNDING UNOCCUPIED OPEN OFFICE ZONES SHALL AUTOMATICALLY COME ON TO 20%.
- DURING OCCUPIED HOURS (6AM-6PM), WHEN ALL ZONES HAVE BEEN UNOCCUPIED FOR MORE THAN 20 MINUTES ALL ZONES SHALL AUTOMATICALLY REDUCE TO 20%.
- DURING AFTER HOURS, WHEN ALL ZONES HAVE BEEN UNOCCUPIED FOR MORE THAN 20 MINUTES ALL ZONES SHALL AUTOMATICALLY TURN OFF.
- SELECT EMERGENCY LIGHTS SHALL ACT AS NIGHT LIGHTS AND SHALL BE UNSWITCHED. ALL OTHER EMERGENCY LIGHTS SHALL BE CONTROLLED WITH ADJACENT LIGHTING VIA UL924 DEVICES. PROVIDE DIMMING TYPE UL924 DEVICES.

ENCLOSED ROOMS (CONFERENCE, CLASSROOM, STORAGE, OFFICE, ETC.)

- PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSORS AND LOW VOLTAGE SWITCH AS INDICATED ON ELECTRICAL PLANS.
- LIGHTING SHALL BE AUTOMATIC ON TO 50%, MANUALLY DIMMABLE UP AND DOWN FROM THERE, AND AUTOMATIC OFF.
- ALL ZONES SHALL BE DIMMABLE.
- EMERGENCY LIGHTS SHALL BE CONTROLLED WITH ADJACENT LIGHTING VIA UL924 DEVICE. PROVIDE DIMMING TYPE UL924 DEVICE.

DAYLIGHT ZONES

- PROVIDE PHOTOCELL AND MANUAL OVERRIDE SWITCH AS INDICATED ON ELECTRICAL PLANS
- PHOTOCELL SHALL ENABLE AUTOMATIC DIMMING IN ACCORDANCE WITH ENERGY CODE REQUIREMENTS
- MANUAL OVERRIDE SWITCH SHALL ENABLE MANUAL DIMMING & ON/OFF, AS WELL.

EXTERIOR LIGHTING

- EXTERIOR LIGHTING SHALL BE CONNECTED TO LIGHTING CONTROL SYSTEM. LIGHTING CONTROL SYSTEM SHALL CONTROL FIXTURES VIA TIME CLOCK AND PHOTOCELL.
- IF LIGHTING IS TO BE USED FOR LIGHTING THE BUILDING FACADE OR LANDSCAPE FEATURES SHALL BE DIMMABLE AND CONTROLLED BY DIMMING RELAYS IN LIGHTING CONTROL PANEL. PROVIDE ADDITIONAL 1" WITH LOW VOLTAGE WIRING TO EACH FIXTURE. FIXTURES SHALL DIM BY 50% BETWEEN MIDNIGHT AND 6AM.

CONFERENCE CENTER

- PROVIDE NEW DIMMING SYSTEM AS INDICATED ON THE ELECTRICAL PLANS WITH DUAL TECHNOLOGY OCCUPANCY SENSORS AND LOW VOLTAGE KEYPADS.
- NORMAL HOURS: ALL LIGHTING SHALL TURN ON AND OFF BASED ON A SCHEDULED INPUT VIA TIME OF DAY CONTROLS FROM LIGHTING CONTROL SYSTEM.
- AFTER HOURS: LIGHTING SHALL BE CONTROLLED ON/OFF VIA LOCAL OVERRIDE KEYPADS AND OCCUPANCY SENSORS. AFTER HOURS LIGHTING SHALL BE MANUAL ON, AUTO OFF.
- EMERGENCY LIGHTS SHALL BE CONTROLLED WITH ADJACENT LIGHTING VIA UL924 DEVICE. PROVIDE DIMMING TYPE UL924 DEVICE WHERE LIGHTING IS SHOWN TO BE DIMMABLE.

AVAILABLE CIRCUITS - POWER AND LIGHTING

CIRCUITS SHOWN ARE SCHEMATIC ONLY AND DO NOT NECESSARILY INDICATE THE ACTUAL PANEL CIRCUIT NUMBERS FOR USE. IT IS INTENDED TO FIRST REUSE EXISTING POWER CIRCUITS THAT ARE AVAILABLE AFTER DEMOLITION OF WALLS AND EQUIPMENT AND THEN USE AVAILABLE SPACES/SPACES AS NEEDED. CONTRACTOR SHALL VERIFY ACTUAL CIRCUIT AVAILABILITY AFTER DEMOLITION AND NOTIFY ARCHITECT IMMEDIATELY IF THE QUANTITY OF AVAILABLE CIRCUITS IS INADEQUATE OR OBTAIN APPROVAL FOR AD ALTERNATE SOLUTION. MAXIMUM OF 16 AMP LOAD PER 20A CIRCUIT.

PROJECT COMMISSIONING REQUIREMENTS:

- ALL BUILDING MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE COMMISSIONED BY A COMMISSIONING AGENT IN ACCORDANCE WITH ALL REQUIREMENTS OF THE INTERNATIONAL ENERGY CONSERVATION (IECC) SECTION C408. REFER TO THE APPLICABLE CODES NOTE ON THIS SHEET FOR THE REQUIRED CODE YEAR OF THE IECC. IT IS THE OWNER'S RESPONSIBILITY TO HIRE A COMMISSIONING AUTHORITY TO ENSURE ALL REQUIRED COMMISSIONING ACTIVITIES AND REQUIREMENTS ARE MET.
- THE COMMISSIONING AGENT SHALL PERFORM ALL TASKS ACCORDING TO THE REQUIREMENTS OF IECC SECTION C408 AND ANY OTHER REQUIREMENTS OF THE PROJECT.
- THE TESTING AND BALANCING (TAB), BUILDING AUTOMATION SYSTEMS (BAS), GENERAL CONTRACTOR, MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS SHALL PROVIDE FULL SUPPORT IN ALL COMMISSIONING ACTIVITIES AND PERFORM ALL NECESSARY COMMISSIONING TASKS ON THIS PROJECT AS REQUIRED BY IECC SECTION C408.
- LEED PROJECTS HAVE ADDITIONAL COMMISSIONING REQUIREMENTS THAT VARY FROM THOSE LISTED ABOVE.

ELECTRICAL APPLICABLE CODES

- 2020 NATIONAL ELECTRIC CODE
- 2021 INTERNATIONAL ENERGY CONSERVATION (IECC)
- CURRENT CAMPUS DESIGN GUIDELINES
- CITY OF DENTON LOCAL AMENDMENTS

FIRE ALARM APPLICABLE CODES

- FM GLOBAL
- 2021 INTERNATIONAL FIRE CODE (IFC)
- CURRENT CAMPUS DESIGN GUIDELINES
- CITY OF DENTON LOCAL AMENDMENTS

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2-6-2024

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Mechanical - Electrical Engineers

**PM**

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PLUMBING. CHRIS WOODWARD  
ELECTRICAL. CHRIS WOODWARD  
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ELECTRICAL NOTES & SYMBOLS


























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## ELECTRICAL SYMBOLS LEGEND

## LIGHTING SYMBOLS LEGEND

LIGHTING CONTROLS:	
	DAYLIGHT SENSOR
	DAYLIGHT ZONE
	WALL MOUNTED VACANCY OR OCCUPANCY SENSORS ARE REQUIRED IN THIS SPACE. PROVIDE ALL POWER PACKS AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM TO CONTROL ALL LIGHTS IN ROOM. THE PRESENCE OF THIS SYMBOL IN A ROOM ONLY INDICATES THAT THE ROOM SHALL HAVE VACANCY OR OCCUPANCY CAPABILITIES. THE CONTRACTOR SHALL FOLLOW MANUFACTURERS RECOMMENDED SENSOR SPACING. SENSORS SHOWN ON THE FLOOR PLANS DO NOT NECESSARILY INDICATE ACTUAL PLACEMENT AND COUNT OF DEVICES, BUT RATHER ONLY SHOW WHICH ROOMS ARE REQUIRED TO BE COVERED BY VACANCY SENSORS. THE ACTUAL NUMBER OF SENSORS AND PLACEMENT IN EACH ROOM SHALL BE BY THE SENSOR MANUFACTURERS' RECOMMENDATIONS. THIS SENSOR SHALL BE CAPABLE OF SWITCHING PROGRAMMING FROM OCCUPANCY TO VACANCY AND VICE VERSA WITHOUT ANY ADDED PARTS.
	CEILING MOUNTED VACANCY OR OCCUPANCY SENSORS ARE REQUIRED IN THIS SPACE. PROVIDE ALL POWER PACKS AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM TO CONTROL ALL LIGHTS IN ROOM. THE PRESENCE OF THIS SYMBOL IN A ROOM ONLY INDICATES THAT THE ROOM SHALL HAVE VACANCY OR OCCUPANCY CAPABILITIES. THE CONTRACTOR SHALL FOLLOW MANUFACTURERS RECOMMENDED SENSOR SPACING. SENSORS SHOWN ON THE FLOOR PLANS DO NOT NECESSARILY INDICATE ACTUAL PLACEMENT AND COUNT OF DEVICES, BUT RATHER ONLY SHOW WHICH ROOMS ARE REQUIRED TO BE COVERED BY VACANCY SENSORS. THE ACTUAL NUMBER OF SENSORS AND PLACEMENT IN EACH ROOM SHALL BE BY THE SENSOR MANUFACTURERS' RECOMMENDATIONS. THIS SENSOR CAPABLE OF SWITCHING PROGRAMMING FROM OCCUPANCY TO VACANCY AND VICE VERSA WITHOUT ANY ADDED PARTS.
	VACANCY OR OCCUPANCY SENSOR ZONE
	SINGLE POLE SWITCH
	LOW VOLTAGE SWITCH
	VACANCY OR OCCUPANCY SENSOR SWITCH. PROVIDE A SENSOR CAPABLE OF SWITCHING PROGRAMMING FROM OCCUPANCY TO VACANCY AND VICE VERSA WITHOUT ANY ADDED PARTS.
	DIMMING LINE VOLTAGE SWITCH
	DIMMING LOW VOLTAGE SWITCH
	DIMMING VACANCY OR OCCUPANCY SENSOR SWITCH. PROVIDE A SENSOR CAPABLE OF SWITCHING PROGRAMMING FROM OCCUPANCY TO VACANCY AND VICE VERSA WITHOUT ANY ADDED PARTS.
	KEYPAD STATION (MULTIPLE BUTTONS OR TOUCH SCREEN). REFER TO LIGHTING CONTROLS PLANS FOR NARRATIVE FOR MORE INFORMATION.
	KEY OPERATED SWITCH
	FOUR WAY SWITCH
	THREE WAY SWITCH
	DOOR SWITCH
	PILOT SWITCH
	TIMER SWITCH
<b>LIGHTING:</b>	
	INDICATES FIXTURE SHALL BE AN EMERGENCY
	INDICATES FIXTURE SHALL BE NIGHT LIGHT AND SHALL NOT BE SWITCHED
	SINGLE FACE EXIT SIGNS - REFER TO PLAN FOR DIRECTIONAL ARROWS AND WALL OR CEILING MOUNTING
	DOUBLE FACE EXIT SIGNS - REFER TO PLAN FOR DIRECTIONAL ARROWS AND WALL OR CEILING MOUNTING
	CAPITAL LETTERS - LIGHT FIXTURE TYPE DESIGNATION
	LOWER CASE LETTERS - SWITCH DESIGNATION
	PANEL & CIRCUIT DESIGNATION

**LEGEND NOTES:**

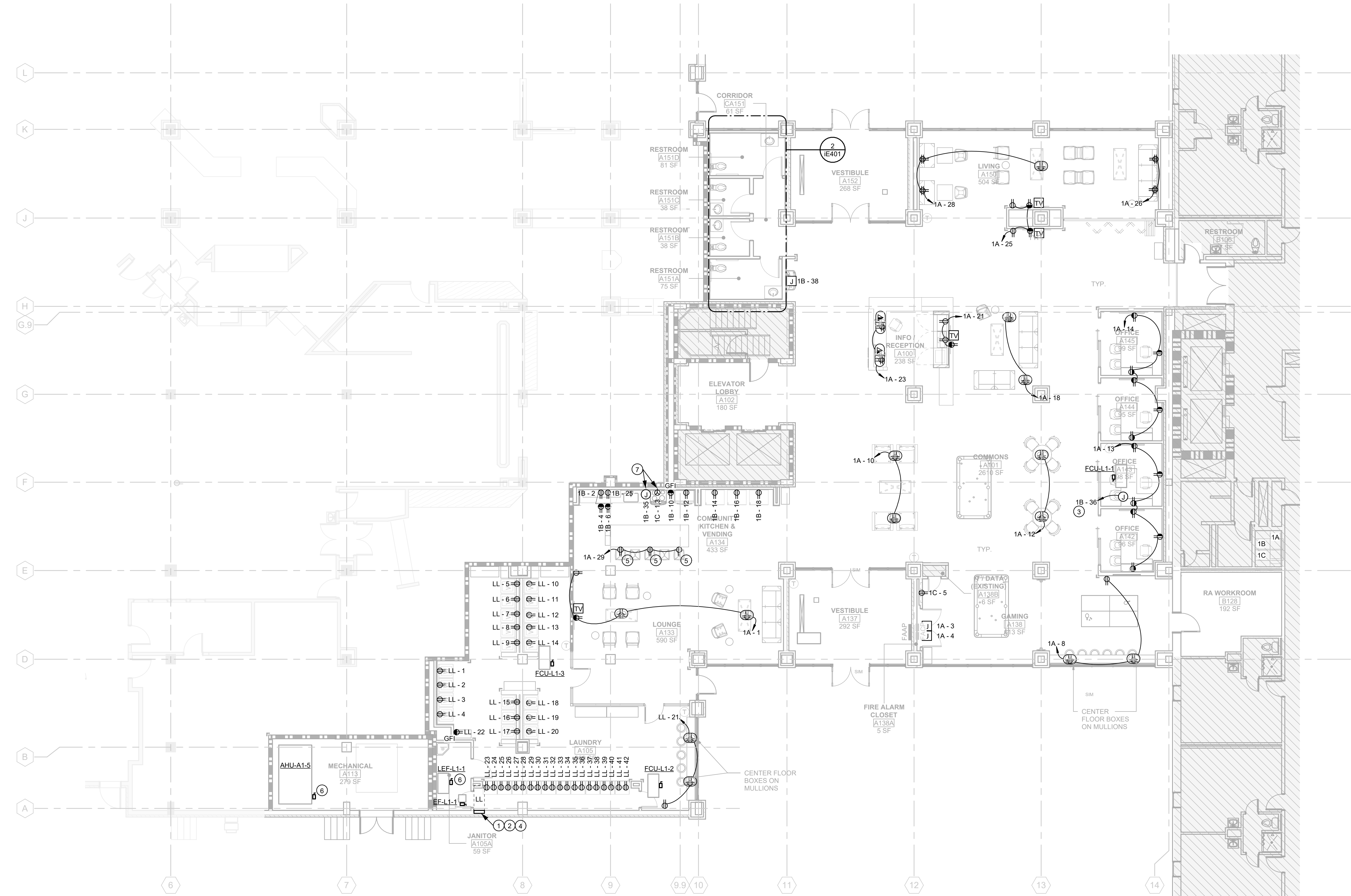
1. NOT ALL SYMBOLS MAY BE USED IN PLANS.
2. DIMENSIONS MAY DIFFER FROM PLANS. REFER TO FLOOR PLANS AND ELECTRICAL SCHEDULES FOR ACTUAL SIZES.
3. IF ANY ELECTRICAL SYMBOLS ARE NOT SHOWN IN THIS SCHEDULE, THE LEGEND IS PRESENT ON THIS SHEET. REFER TO THE OTHER SHEET (ELECTRICAL OR LIGHTING) FOR ADDITIONAL SYMBOLS.
4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL ACCESSORIES FOR PROPER MOUNTING OF ALL LIGHT FIXTURES AND ELECTRICAL DEVICES IN SPECIFIC CEILING OR WALL CONDITIONS. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
5. CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER OF ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES (NEW OR SUBSTITUTES).

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Autodesk Docs/HE0569-2302.01 UNT Kerr Hall Interior RenovationR23\_KERR-HALL-LOBBY\_ELECT.rvt

2/26/2024 11:16:21 AM



1 LEVEL 1 ELECTRICAL PLAN - LOBBY  
1/8" = 1'-0"

**GFCI RECEPTACLES:**  
ALL RECEPTACLES WITHIN A KITCHEN AREA ARE TO BE GFCI PROTECTED. ALL RECEPTACLES MOUNTED ABOVE OR BELOW KITCHEN COUNTERS WITH A SINK OR ANY OTHER WATER DISPENSING MECHANISM SHALL BE GFCI PROTECTED. ALL RECEPTACLES INSTALLED IN AN OUTDOOR LOCATION AND PROVIDED IN RESTROOMS SHALL BE GFCI TYPE DEVICES.

**CRAWLSPACE SCOPE NOTE:**  
PROVIDE CRAWLSPACE GFCI/WP RECEPTACLES, CRAWLSPACE LIGHTING, CRAWLSPACE EXHAUST FANS, CRAWLSPACE SUMP PUMPS, AND CRAWLSPACE HEATERS. PROVIDE HEAT TRACE FOR ANY GREASE WASTE PIPE WITH RUN LENGTHS OVER 200FT.

**FIRE SMOKE DAMPERS:**  
PROVIDE 120V, 20A POWER CIRCUITING FROM THE NEAREST 120V PANELBOARD FOR FIRE-SMOKE DAMPERS. SEE POWER GENERAL NOTE KK ON SHEET IE001 FOR ADDITIONAL INFORMATION. REFER TO THE HVAC PLANS FOR LOCATIONS AND QUANTITIES.

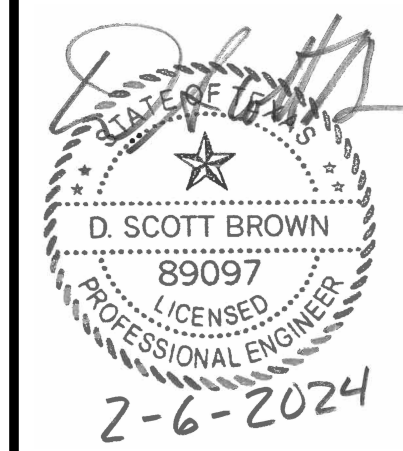
**MOTORIZED DAMPERS:**  
FOR EACH MOTORIZED DAMPER SHOWN ON MECHANICAL PLANS, PROVIDE A 120V, 20A POWER CIRCUIT TO 24V TRANSFORMER, PROVIDED BY CONTROLS CONTRACTOR, FOR UP TO 5 MOTORIZED DAMPERS. PROVIDE CONTROL WIRE TO EACH DAMPER. REFER TO THE HVAC PLANS FOR LOCATIONS AND QUANTITIES.

**EXISTING CIRCUIT NOTE:**  
ALL EXISTING CIRCUITS WITHIN THE SCOPE OF WORK AREA THAT ARE NOT REUSED FOR THIS REMODEL SHALL BE REMOVED BACK TO THE PANELS AND THE PLACARDS SHALL INDICATED THE BREAKERS AS SPARES.

**RECEPTACLE POWER NOTE:**  
FOR ALL RECEPTACLES NOT SHOWN WITH CIRCUITING ON THE PLANS, PROVIDE AND INSTALL 120V, 20A POWER TO ALL RECEPTACLES SHOWN FROM THE NEAREST PANELBOARD WITH AVAILABLE CAPACITY.  
A. FOR ALL DEDICATED RECEPTACLES (INDICATED BY D), PROVIDE A DEDICATED CIRCUIT TO EACH RECEPTACLE.  
B. FOR ALL OTHER RECEPTACLES (CONVENIENCE RECEPTACLES), PROVIDE CIRCUITING FOR UP TO 6 DUPLEX RECEPTACLES PER CIRCUIT.

### KEYED NOTES - SHEET IE201A

- 1 PROVIDE AND INSTALL A NEW PANELBOARD TO SERVE NEW LAUNDRY AREA AND ADDITIONAL POWER IN THE LAUNDRY ROOM AND LOBBY. PANEL TO BE MOUNTED IN SPACE BEHIND DRYERS IN LAUNDRY ROOM. COORDINATE WITH ARCHITECT PANEL CLEARANCES PER NEC ARE MET AND PANEL IS ACCESSIBLE.
- 2 PANEL SIZE SHALL BE BASED ON IF DRYERS ARE ELECTRIC OR GAS. EQUIPMENT SHOWN IS BASED ON GAS DRYERS.
- 3 INDICATED CIRCUITS SHALL BE POWER FOR MOTORIZED DAMPERS. REFER TO MOTORIZED DAMPERS NOTE ON THIS SHEET FOR ADDITIONAL INFORMATION.
- 4 SEE ELECTRICAL RISER DIAGRAM IN DETAIL 3 ON SHEET IE002 FOR ADDITIONAL INFORMATION.
- 5 ELECTRICAL CONTRACTOR SHALL CONFIRM EXACT MOUNTING HEIGHTS AND LOCATIONS OF ISLAND RECEPTACLES WITH ARCHITECT PRIOR TO INSTALLATION.
- 6 SEE MECHANICAL EQUIPMENT POWER SCHEDULE ON SHEET IE701 FOR ADDITIONAL INFORMATION. INDICATED EQUIPMENT TO BE POWERED FROM NEW BREAKER IN NEXT AVAILABLE SPACE ON PANEL M8B1.
- 7 INDICATED EQUIPMENT SHALL BE USED FOR STOVE AND EXHAUST HOOD. STOVE RECEPTACLE SHALL BE A 14-50R. ELECTRICAL CONTRACTOR SHALL CONFIRM MOUNTING HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.



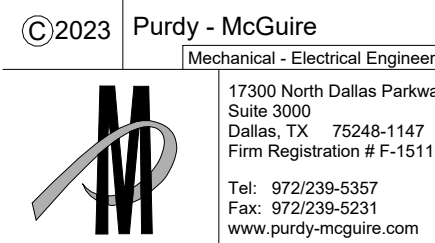
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**KERR HALL INTERIOR RENOVATION**  
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Date: FEBRUARY 6, 2024

REVISIONS		
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2307-2301  
SCOTT BROWN, KRISTIN BURKE  
MECHANICAL  
ELECTRICAL  
PLUMBING  
HVAC  
FIRE PROTECTION  
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ie201A

LEVEL 1 ELECTRICAL  
PLAN (LOBBY,  
RESTROOMS, &  
LAUNDRY)

TreanorHL NO. HE0569-2302.01





1. NORMAL LIGHTING CIRCUITING: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 277V, 1PHASE, 20 AMP CIRCUITS FROM THE NEAREST 480/277V 3PH/4W/3NE GROUNDING SYSTEM TO THE NEAREST EMERGENCY LIGHTING PANELBOARD. 12/20/28H PANEBOARD TO SERVE NORMAL LIGHTING ON THIS SHEET, UNLESS OTHERWISE NOTED. PROVIDE POWER FROM PANELBOARDS VIA 3/4" CONDUIT WITH 2#10 AND #10 GROUNDING. PROVIDE 120V LIGHTING CIRCUITS WITH A LOAD OF MORE THAN 3400W EACH, AND 120V POWER CIRCUITS FOR LIGHTING SHALL HAVE A LOAD OF NO MORE THAN 1300W EACH.

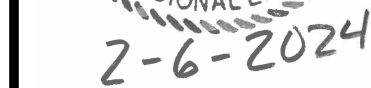
2. EMERGENCY LIGHTING CIRCUITING: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 277V, 1PHASE, 20 AMP CIRCUITS FROM THE NEAREST 480/277V 3PH/4W/3NE GROUNDING SYSTEM TO THE NEAREST 480/277V 3PH/4W/3NE PANEBOARD AND 120V, 1PHASE, 20 AMP POWER CIRCUITS FROM THE NEAREST 12/20/28H PANEBOARD LISTED IN THE EMERGENCY LIGHTING NOTE TO SERVE EMERGENCY LIGHTING CIRCUITS. PROVIDE 120V LIGHTING CIRCUITS WITH A LOAD OF MORE THAN 3400W EACH, AND 120V POWER CIRCUITS FOR LIGHTING SHALL HAVE A LOAD OF NO MORE THAN 1300W EACH.

3. EMERGENCY LIGHTING CIRCUITING: ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE, SHALL CIRCULATE ALL EMERGENCY LIGHTING NOTED (AS EM) AND EXIT SIGNS TO THE NEAREST EMERGENCY PANEBOARD. EMERGENCY LIGHTING SHALL BE CONTROLLED WITH NORMAL LIGHTING IN SAME SPACE/CONTROL ZONE VIA 1/2" 12/20/28H PANEBOARD.

- A REFER TO THE ELECTRICAL FRONT SHEET FOR ADDITIONAL APPLICABLE GENERAL NOTES.
- B REFER TO LIGHTING CONTROLS NARRATIVE ON THE ELECTRICAL FRONT SHEET FOR ADDITIONAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE LIGHTING CONTROLS REQUIRED SEQUENCE OF OPERATIONS (SOO) FOR EACH SPACE, PLUS LOGIC CONTROL.
- C PROVIDE EDGE LIT LED EXIT SIGNS WITHIN THE PATH OF EGRESS SUCH THAT ANY LOCATION WITHIN THE PATH OF EGRESS HAS TWO EXIT SIGNS WITHIN IT.
- D REFER TO THE LIGHTING CONTROLS NARRATIVE ON SHEET IE001 FOR FURTHER INFORMATION ON CONTROLS INTENT.
- E LIGHTING CONTROLS AND DRIVERS FOR LIGHT FIXTURES SHALL BE MOUNTED IN AN ACCESSIBLE LOCATION AND SHALL BE LABELED FOR EASE OF ACCESS.
- F ALL LIGHTING SHALL BE CONTROLLED BY SWITCHES, NOT TOUCHPADS, PER UNIT REQUEST.

- 1 WATTAGE WITHIN DAYLIGHT ZONES IN THIS SPACE TOTAL LESS THAN 150 WATTS. THEREFORE THE LIGHTING WITHIN THIS DAYLIGHT ZONE IS EXEMPT FROM DAYLIGHT RESPONSIVE CONTROLS.
- 2 DAYLIGHT ZONE (TYPICAL) UNLESS NOTED OTHERWISE, LIGHTING WITHIN DAYLIGHT ZONE SHALL BE CONTROLLED INDEPENDENTLY OF SURROUNDING GENERAL LIGHTING. PROVIDE AUTOMATIC DAYLIGHT HARVESTING WITHIN THE DAYLIGHT ZONE IN WHICH LIGHTING IS AUTOMATICALLY DIMMED TO A CAPABILITY OF 15% IN RESPONSE TO SUNLIGHT LEVELS WITHIN THE DAYLIGHT ZONE. REFER TO KEYED NOTE ON THIS SHEET FOR AREAS THAT ARE EXEMPT FROM DAYLIGHT RESPONSIVE CONTROLS.
- 3 MASTER LIGHT SWITCH SHALL BE LOCATED AT RECEPTION DESK.

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**Date:** FEBRUARY 6, 202

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LEVEL 1 LIGHTING PLAN  
(LOBBY, RESTROOMS, &  
LAUNDRY)

TreanorHL NO. HE0569.2302.0

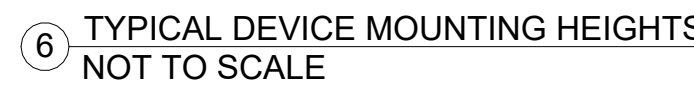
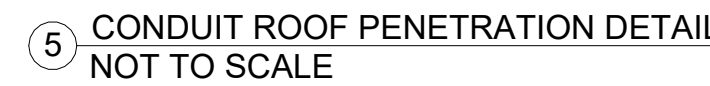
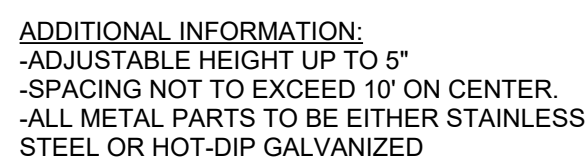
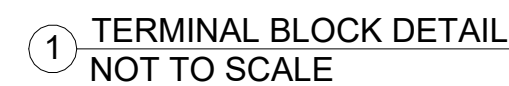


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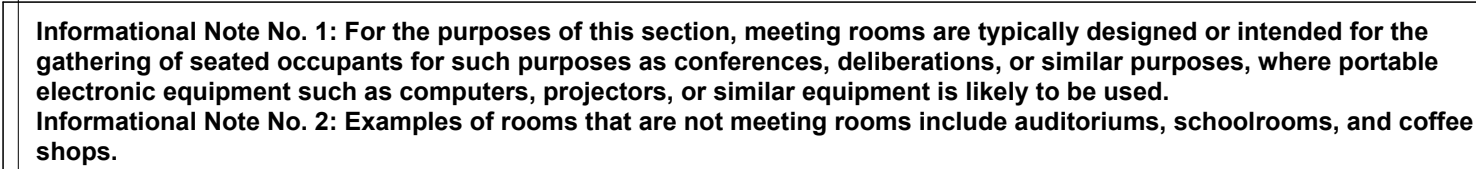
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<h1 style="text-align: center;">WALL RECEPTACLE</h1> <h2 style="text-align: center;">QUANTITY IN A MEETING ROOM</h2>	
ROOM PERIMETER (FT)	MINIMUM WALL RECEPTABLES REQUIRED
PERIMETER < 12	1
12 - 24	2
24 - 36	3
36 - 48	4
48 - 60	5
60 - 72	6
72 - 84	7
84 - 96	8
96 - 108	9
108 - 120	10
120 - 132**	11
132 - 144**	12
144 - 156**	13
156 - 168**	14

\*\*CALCULATED ON THE BASIS OF ONE RECEPTACLE PER 100 SQ. FT. OF TOTAL ROOM AREA. IF IT IS OVER 1000 SQ. FT. THIS CODE DOES NOT APPLY. WALL RECEPTABLES ARE STILL ALLOWED, BUT THE NATIONAL ELECTRIC CODE DOES NOT REQUIRE A MINIMUM AMOUNT.



(B) Receptacle Outlets Required. The total number of receptacle outlets, including floor outlets and receptacle outlets in fixed furniture, shall not be less than as determined in (1) and (2).

(1) Receptacle Outlets in Fixed Walls. The required number of receptacle outlets shall be determined in accordance with 210.52(1) through (A)(4). These receptacle outlets shall be permitted to be located as determined by the designer or building owner.

(1) Receptacle Outlets in Fixed Walls. The required number of receptacle outlets shall be determined in accordance with 210.52(1) through (A)(4). These receptacle outlets shall be permitted to be located as determined by the designer or building owner.

210.52(A)(1) Spacing. Receptacles shall be installed such that no point measured horizontally along the floor line of any wall space is more than 1.8 m (6 ft) from a receptacle outlet.

(1) Any space 600 mm (2 ft) or more in width (including space measured around corners) and unbroken along the floor line by doors, windows, or other openings, and fixed chairs that do not have casters or casters with swivel casters.

(2) The space occupied by fixed panels in walls, excluding sliding panels

210.52(A)(3) Floor Receptacles. Receptacle outlets in or on floors shall not be counted as part of the required number of receptacle outlets unless located within 450 mm (18 in.) of the wall.

210.52(A)(4) Countertop and Similar Work Surface Receptacle Outlets. Receptacles installed for countertop and similar work surfaces as specified in 210.52(C) shall not be considered as the receptacle outlets required by 210.52(A).

(2) Floor Receptacle Outlets. A meeting room with any floor dimension that is 3.7 m (12 ft) or greater in any direction and that has

floor area of at least 20 m<sup>2</sup> (215 ft<sup>2</sup>) shall have at least one floor receptacle outlet, or at least one floor outlet to service receptacle located at a distance not less than 1.8 m (6 ft) from any fixed wall for each 20 m<sup>2</sup> (215 ft<sup>2</sup>) or major portion of floor space.

**NEC Commentary:** These requirements apply to meeting rooms in a variety of occupancies, including office buildings and hotels. For most rooms in commercial buildings, there are no NEC requirements for signaling firewalls and communication systems. However,

210.65 recognizes that there is a need to provide receptacles to facilitate meetings in which attendees will be using computers. The section which utilizes the same receptacle requires used in dwelling units as a basis for the spacing of meeting room receptacles.

was revised for the 2020 edition to apply to non-rectangular meeting rooms, such as those that are round. Means of compliance include floor receptacle outlets and floor outlets supplying hard-wired furniture that contains receptacles. The 6-foot distance from

fixed walls is to allow for emergency egress without occupants having to cross over flexible cords.

**Common Code Official Interpretations - Confirm with local Authority Having Jurisdiction (AHJ):**

- We can locate wall receptacles wherever we like in the meeting room; we just have to meet the quantity based on 12ft OC. F

- A quadruplex receptacle counts as (2) wall or floor receptacles.



PERIMETER:  
 $16.5 + 14 + 20 + 14 + 0.5 = 65 \text{ FT} =$   
 - AT LEAST 6 WALL RECEPTACLES  
 REQUIRED

AREA:  
14 \* 20 = 280 SQFT =  
- AT LEAST 1 FLOOR RECEPTACLE  
REQUIRED

7 MEETING ROOM RECEPTACLES REQUIRED  
NOT TO SCALE

PMI JOB NO. 23037.003  
PROJECT MGR. SCOTT BROWN, KRISTIN BURKE  
MECHANICAL MITCHELL HENTON  
PLUMBING CHRIS WOODYARD  
ELECTRICAL KYLE ROUREK  
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ELECTRICAL DETAILS -  
GENERAL

TreanorHL NO. HE0569.2302.0



## GENERAL METERING NOTES:

1. BASIS OF DESIGN METERING SYSTEM: MATCH ELECTRICAL GEAR MANUFACTURER.
2. REFERENCES:
  - A. PROVIDE METERING TO MEET THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC) ENERGY MONITORING REQUIREMENTS. THIS BUILDING SHALL BE EQUIPPED TO MEASURE, MONITOR AND REPORT ENERGY CONSUMPTION DATA PER IECC ENERGY MONITORING REQUIREMENTS.
  - B. ALL METERS SHALL MEET THE REQUIREMENTS IN THE UNT TECHNICAL DESIGN GUIDELINES (TDGs). ALL METERS SHALL BE INTEGRATED INTO THE WHOLE CAMPUS POWER MONITORING SYSTEM. CONTRACTOR SHALL COORDINATE REQUIREMENTS DIRECTLY WITH THE OWNER. THE CONTRACTOR SHALL OBTAIN A COPY OF THE LATEST GUIDELINES PRIOR TO BIDDING.
  - C. IF ANY ITEMS IN THE UNT TECHNICAL DESIGN GUIDELINES (TDGs) DIRECTLY CONTRADICT THE CODE IECC 2021 SECTION C405.12, THE CODE SHALL GOVERN AND THE OWNER, ARCHITECT, AND ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR.
3. PROVIDE A DATA ACQUISITION SYSTEM. THE DATA ACQUISITION SYSTEM SHALL HAVE THE CAPABILITY TO STORE DATA FROM THE REQUIRED METERS AND OTHER SENSING DEVICES FOR A MINIMUM OF 36 MONTHS. THE DATA ACQUISITION SYSTEM SHALL HAVE THE CAPABILITY TO STORE REAL-TIME ENERGY CONSUMPTION DATA AND PROVIDE HOURLY, DAILY, MONTHLY AND YEARLY LOGGED DATA FOR EACH END-USE CATEGORY.
4. MULTIPLE METERS ARE BEING USED TO MEASURE EACH END-USE CATEGORY. THE DATA ACQUISITION SYSTEM SHALL TOTAL ALL OF THE ENERGY USED BY EACH CATEGORY. NOT MORE THAN 5 PERCENT OF THE MEASURE LOAD FOR EACH OF THE END-USE CATEGORY SHALL BE PERMITTED TO BE FROM A LOAD THAT IS NOT WITHIN THAT CATEGORY. SEPARATELY, THE DATA ACQUISITION SYSTEM SHALL BE CAPABLE OF TOTALING EACH TENANT LOAD FOR OWNER BILLING USE.
5. ALL METERS SHOWN ABOVE ELECTRICAL PANELS ON THE ONE-LINE DIAGRAMS ON SHEETS SHALL BE CAPABLE OF METERING EACH INDIVIDUAL CIRCUIT WITHIN THE ELECTRICAL PANEL. SEPARATELY, AS EACH CIRCUIT MAY BE A DIFFERENT END-USE CATEGORY.
6. ALL METERS SHALL BE CERTIFIED REVENUE GRADE AND MEET 0.5% CLASS REVENUE ACCURACY.
7. ALL METERS SHALL INTEGRATE INTO THE BUILDING MANAGEMENT SYSTEM (BMS).
8. INDIVIDUAL END-USE METERING SHALL NOT BE REQUIRED FOR FIRE PUMPS, STAIRWELL PRESSURIZATION FANS FOR ANY SYSTEM THAT OPERATES ONLY DURING TESTINGS OR EMERGENCY. HOWEVER, ALL OF THESE ITEMS AND THE OTHER GENERATOR LOADS SHALL BE MEASURED TOGETHER UNDER ONE TOTAL METER READING FOR THE GENERATOR LOAD.
9. ALL METERS OR OTHER MEASUREMENT DEVICES SHALL BE CONFIGURED TO AUTOMATICALLY COMMUNICATE ENERGY CONSUMPTION DATA TO THE DATA ACQUISITION SYSTEM. SOURCE METERS SHALL BE ALLOWED TO BE ANY DIGITAL-TYPE METER, LIGHTING, HVAC, OR OTHER BUILDING SYSTEMS THAT CAN MONITOR THEIR ENERGY CONSUMPTION SHALL BE PERMITTED INSTEAD OF METERS. CURRENT SENSORS SHALL BE PERMITTED, PROVIDED THAT THEY HAVE TESTED ACCURACY OF  $\pm 2$  PERCENT.
10. THE METERING SYSTEM AND EQUIPMENT SHALL HAVE THE CAPABILITY TO PROVIDE AT LEAST HOURLY DATA THAT IS FULLY INTEGRATED INTO THE DATA ACQUISITION SYSTEM AND GRAPHICAL ENERGY REPORT.
11. A PERMANENT AND READILY ACCESSIBLE REPORTING MECHANISM SHALL BE PROVIDED IN THE BUILDING THAT IS ACCESSIBLE BY THE BUILDING OPERATION AND MANAGEMENT PERSONNEL. THE REPORTING MECHANISM SHALL HAVE THE CAPABILITY TO GRAPHICALLY PROVIDE THE ENERGY CONSUMPTION FOR EACH END USE CATEGORY AT LEAST EVERY HOUR, DAY, MONTH AND YEAR FOR THE PREVIOUS 36 MONTHS.

### 1 ELECTRICAL METERING NOT TO SCALE

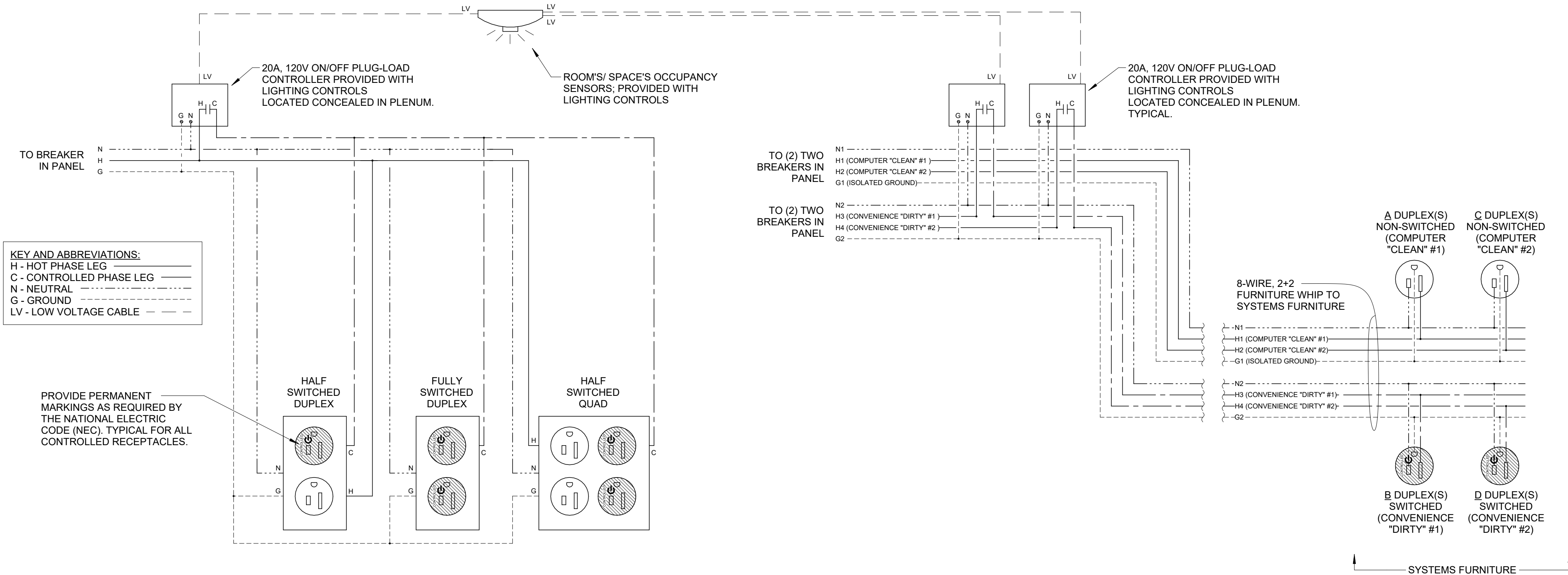
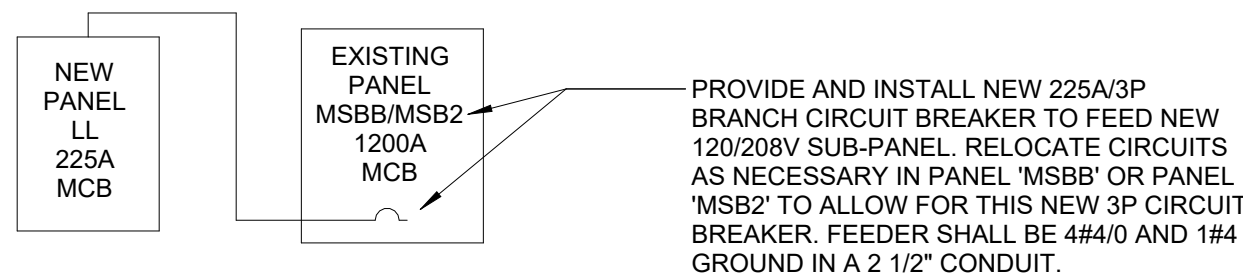
## METERING END-USE CATEGORIES - CODE REQUIRED

TOTAL HVAC SYSTEM	HEATING, COOLING AND VENTILATION, INCLUDING BUT NOT LIMITED TO FANS, PUMPS, BOILERS, CHILLERS AND WATER HEATING.
INTERIOR LIGHTING	LIGHTING SYSTEMS LOCATED WITHIN THE BUILDING.
EXTERIOR LIGHTING	LIGHTING SYSTEMS LOCATED ON THE BUILDING SITE BUT NOT WITHIN THE BUILDING.
PLUG LOADS	DEVICES, APPLIANCES, AND EQUIPMENT CONNECTED TO CONVENIENCE RECEPTACLE OUTLETS.
PROCESS LOADS	ANY SINGLE LOAD THAT IS NOT INCLUDED IN HVAC, LIGHTING OR PLUG LOAD CATEGORY AND EXCEEDS 5 PERCENT OF THE PEAK CONNECTED LOAD OF THE WHOLE BUILDING INCLUDING, BUT NOT LIMITED TO DATA CENTERS, MANUFACTURING EQUIPMENT AND COMMERCIAL KITCHENS.
BUILDING OPERATIONS AND OTHER MISCELLANEOUS LOADS	THE REMAINING LOADS NOT INCLUDED ELSEWHERE IN THIS TABLE INCLUDING, BUT NOT LIMITED TO, VERTICAL TRANSPORTATION SYSTEMS, AUTOMATIC DOORS, MOTORIZED SHADING SYSTEMS, ORNAMENTAL FOUNTAINS, ORNAMENTAL FIREPLACES, SWIMMING POOLS, IN GROUND SPAS, SNOW-MELT SYSTEMS, CAR CHARGERS.
THESE CATEGORIES SHALL TOTAL UP TO 100% OF THE BUILDING LOAD.	

## GENERAL NOTES:

- A. EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY AND RECORD DRAWINGS. HOWEVER, IT IS NOT INTENDED TO BE AN EXACT REPRESENTATION OF ACTUAL CONDITIONS. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS (WHICH INCLUDE BUT ARE NOT LIMITED TO BREAKER SIZES, WIRE SIZES, CONDUIT SIZES, ETC.) PRIOR TO PURCHASING ANY ELECTRICAL EQUIPMENT. ELECTRICAL CONTRACTOR SHALL ALSO FIELD VERIFY PANELBOARDS TO VERIFY THE QUANTITY OF SPACES FOR CIRCUIT BREAKERS IS SUFFICIENT PER ENGINEERS DESIGN. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING TO ASCERTAIN EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BID.
- B. ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE.
- C. ALL BUSING SHALL BE COPPER.
- D. PROVIDE FULL HEIGHT VERTICAL BUS FOR ALL SWITCHBOARDS, DISTRIBUTION BOARDS AND PANELBOARDS.
- E. ALL PANELBOARDS SHALL BE PROVIDED WITH 100% RATED FEED THROUGH LUGS.
- F. ALL ELECTRICAL FEEDERS SERVING HVAC EQUIPMENT SHALL BE COPPER ONLY.
- G. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SELECTION OF OVERCURRENT/SHORT CIRCUIT PROTECTIVE DEVICES BASED ON CALCULATED PROSPECTIVE FAULT ENERGY AT EACH BUS PER SPECIFICATIONS AND PROVIDE DEVICES MEETING REQUIRED SHORT CIRCUIT INTERRUPTING CAPACITIES (AIC) AND ARC FLASH STUDIES. PROVIDE OVERCURRENT PROTECTIVE DEVICE PER COORDINATION STUDY PER SPECIFICATIONS. THE USE OF RECOGNIZED COMPUTER PROGRAMS THAT HAVE BEEN VALIDATED SHALL BE USED. THE RESULTS OF THESE COMPUTATIONS AND GRAPHICAL SOLUTIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AT THE TIME THE PANELBOARDS, SWITCHBOARDS, AUTOMATIC TRANSFER SWITCHES AND OTHER RELATED DISTRIBUTION EQUIPMENT ARE SUBMITTED.
- H. FEEDERS HAVE BEEN SIZED FOR TOTAL VOLTAGE DROP OF 5% ACROSS THE ENTIRE SYSTEM FROM THE UTILITY SERVICE POINT TO EACH END LOAD. THIS INCLUDES A MAXIMUM VOLTAGE DROP OF 2% BETWEEN THE SERVICE POINT AND THE LAST PANELBOARD (FEEDER(S)), AND A MAXIMUM VOLTAGE DROP OF 3% BETWEEN THE PANELBOARD AND THE END LOAD (BRANCH CIRCUIT). THE SYSTEM WAS DESIGNED PER NEC SECTION 210.19 INFORMATIONAL NOTE AND IECC SECTION C405.9. ANY CONTRACTOR PROPOSED MATERIAL CHANGE SHALL STILL MEET THESE SECTIONS AND IS REQUIRED TO BE SUBMITTED WITH A VOLTAGE DROP CALCULATION FOR ENGINEERS REVIEW.

### 3 ELECTRICAL RISER DIAGRAM NOT TO SCALE



## NOTES:

- A. 50% OF RECEPTACLES (OTHER THAN THOSE REQUIRING CONTINUOUS OPERATION) ARE REQUIRED TO BE CONTROLLED AUTO OFF WITHIN 20 MINUTE TIME OUT.
  - A. APPLIES IN:
    - A. ENCLOSED OFFICES
    - B. CONFERENCE ROOMS
    - C. ROOMS PRIMARILY FOR COPY/PRINT FUNCTIONS
    - D. BREAKROOMS
    - E. CLASSROOMS
    - F. MODULAR WORKSTATIONS (SYSTEM FURNITURE DIRTY CIRCUITS)
- B. IF AN ENTIRE DUPLEX IS NON-CONTROLLED, THERE MUST BE A CONTROLLED DUPLEX WITHIN 12" OF THE NON-CONTROLLED DUPLEX.
- C. SYSTEMS FURNITURE REQUIRE A NON-CONTROLLED RECEPTACLE WITHIN 72" OF A CONTROLLED RECEPTACLE.
- D. CONTINUOUS OPERATION ARE EXEMPTED FROM AUTOMATIC CONTROL RECEPTACLES AND SHALL BE NOTED ON THE PLANS AS EXEMPT. EXAMPLES OF CONTINUOUS OPERATION ARE INCLUDING BUT NOT LIMITED TO:
  - A. PC
  - B. FRIDGE
  - C. ICE MAKER
  - D. SECURITY POWER
  - E. COPIERS
- E. AUTOMATIC RECEPTACLES SHALL BE TIED INTO THE ROOMS SENSOR. RECEPTACLES SHALL BE AUTO-ON, AND AUTO-OFF WITHIN 20 MINUTES.

### 2 SWITCHED RECEPTACLE WIRING DIAGRAM NOT TO SCALE

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Date: FEBRUARY 6, 2024

REVISIONS		
NO	DESCRIPTION	DATE

iE602

ELECTRICAL DETAILS - GENERAL

TreanorHL NO. HE0569.2302.01





- ① #2 SOLID, BARE TINNED COPPER
- ② #40 1/4" DIA. PVC CONDUIT
- ③ CONDUCTOR PER ONE-LINE DIAGRAM
- ④ 5/8" DIAMETER X 10' 0" COPPER CLAD GROUND ROD
- ⑤ SIZE PER NEC TABLE 605.48, ROUTE TO NEAREST "GB"
- ⑥ INSULATED GROUND CONDUCTOR ROUTED TO PROVIDE ISOLATED GROUNDING PATH. SIZE TO MATCH SEPARATELY DERIVED SYSTEM GROUNDING ELECTRODE CONDUCTOR FOR TRANSFORMER AND CONDUCTOR AT SAME "GB"
- ⑦ THE INSULATED GROUND CONDUCTOR MAY BE ROUTED IN A SEPARATE RACEWAY FROM THE CIRCUIT CONDUCTORS DIRECTLY TO THE PANELBOARD ISOLATED GROUND BUS BAR, OR WITH THE CIRCUIT CONDUCTORS IN THE SAME RACEWAY (SEE 250.146(D), 250.148(D), AND 250.148). THE BASIS OF DESIGN SHOWN ON THE ONE LINE DIAGRAM READER SHOULD BE FOLLOWING THE RISING RAMP DIAGRAM INDICATES THE INSULATED GROUND CONDUCTOR ROUTING FROM THE ELECTRICAL ROOM GROUND BAR "GB" TO THE TRANSFORMER, NOT TERMINATED WITHIN THE TRANSFORMER. THEN ROUTED WITH THE CIRCUIT CONDUCTORS IN THE SAME RACEWAY TO CONNECT TO THE PANELBOARD ISOLATED GROUND BUS BAR. HOWEVER, THE ENGINEER TAKES NO EXCEPTIONS BETWEEN EITHER OPTION AS LONG AS THE CONTRACTOR FOLLOWS THE NATIONAL ELECTRIC CODE.
- ⑧ FOR PANELS SERVING ISOLATED GROUND "IG" CIRCUITS, PROVIDE A PANELBOARD ISOLATED GROUND BUS BAR TO TERMINATE ISOLATED GROUNDING ELECTRODE CONDUCTOR.

1 GROUND RISER DIAGRAM  
NOT TO SCALE



2 GROUND BUS BAR CONNECTION  
NOT TO SCALE



# TREANORHL

STATE OF TEXAS  
D. SCOTT BROWN  
89097  
LICENSED  
PROFESSIONAL ENGINEER  
2-6-2024

UNIVERSITY OF NORTH TEXAS  
KERR HALL INTERIOR RENOVATION



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iE603

## ELECTRICAL DETAILS - GROUNDING

TreanorHL NO. HE0569.2302.0



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## LIGHT FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL NUMBER	LAMPS	VOLT	INPUT WATTS	DIMMING	REMARKS
A-4	4' LED SUSPENDED LINEAR PENDANT - DIRECT/INDIRECT, DIRECT LAMBERTION OPTICS, INDIRECT EXTREME BATWING OPTICS, BLACK CANOPY, 3000K, 8W/FT	LUX ILLUMINARE	EOS 3.0M-P-DH-LAM-500-XBT-500-4-30K-8-2-UNV-S1-B-HC-XX-BC	LED	120 V	32 W	0-10V	SEE NOTE 1
A-5	5' LED SUSPENDED LINEAR PENDANT - DIRECT/INDIRECT, DIRECT LAMBERTION OPTICS, INDIRECT EXTREME BATWING OPTICS, BLACK CANOPY, 3000K, 8W/FT	LUX ILLUMINARE	EOS 3.0M-P-DH-LAM-500-XBT-500-5-30K-8-2-UNV-S1-B-HC-XX-BC	LED	120 V	40 W	0-10V	SEE NOTE 1
A-6	6' LED SUSPENDED LINEAR PENDANT - DIRECT/INDIRECT, DIRECT LAMBERTION OPTICS, INDIRECT EXTREME BATWING OPTICS, BLACK CANOPY, 3000K, 8W/FT	LUX ILLUMINARE	EOS 3.0M-P-DH-LAM-500-XBT-500-6-30K-8-2-UNV-S1-B-HC-XX-BC	LED	120 V	48 W	0-10V	SEE NOTE 1
A-10	10' LED SUSPENDED LINEAR PENDANT - DIRECT/INDIRECT, DIRECT LAMBERTION OPTICS, INDIRECT EXTREME BATWING OPTICS, BLACK CANOPY, 3000K, 8W/FT	LUX ILLUMINARE	EOS 3.0M-P-DH-LAM-500-XBT-500-10-30K-8-2-UNV-S1-B-HC-XX-BC	LED	120 V	80 W	0-10V	SEE NOTE 1
B-2	2' LED RECESSED LINEAR WITH FLANGE, LAMBERTION OPTICS, 3000K, 5W/FT	LUX ILLUMINARE	EOS 3.0-R-FT-LAM-500-2-30K-8-UNV-S1-FINISH	LED	120 V	10 W	0-10V	SEE NOTE 1
B-3.5	3.5' LED RECESSED LINEAR WITH FLANGE, LAMBERTION OPTICS, 3000K, 5W/FT	LUX ILLUMINARE	EOS 3.0-R-FT-LAM-500-3' 6"-30K-8-UNV-S1-FINISH	LED	120 V	18 W	0-10V	SEE NOTE 1
B-4	4' LED RECESSED LINEAR WITH FLANGE, LAMBERTION OPTICS, 3000K, 5W/FT	LUX ILLUMINARE	EOS 3.0-R-FT-LAM-500-6-30K-8-UNV-S1-FINISH	LED	120 V	30 W	0-10V	SEE NOTE 1
B-6H O	6' LED RECESSED LINEAR WITH FLANGE, LAMBERTION OPTICS, 3000K, 8W/FT	LUX ILLUMINARE	EOS 3.0-R-FT-LAM-750-6-30K-8-UNV-S1-FINISH	LED	120 V	48 W	0-10V	SEE NOTE 1
B-10	10' LED RECESSED LINEAR WITH FLANGE, LAMBERTION OPTICS, 3000K, 5W/FT	LUX ILLUMINARE	EOS 3.0-R-FT-LAM-500-10-30K-8-UNV-S1-FINISH	LED	120 V	50 W	0-10V	SEE NOTE 1
D	4.5" ROUND LED CYLINDER, 1500 LUMENS, 3000K, TEXTURED BLACK FINISH, 70 DEGREE DISTRIBUTION, CLEAR SEMI SPECULAR REFLECTOR, DIFFUSE ACRYLIC LENS, WALL MOUNTED	HE WILLIAMS	4CR-L15/830-BLK-DIM-UNV-RW-CS-AD-WM	LED	120 V	18 W	0-10V	
F	6.5" ROUND LED CYLINDER WITH TRIMLOCK TECHNOLOGY, TEXTURED BLACK FINISH, WIDE DISTRIBUTION WITH OPEN REFLECTOR, 3000K, AIRCRAFT CABLE MOUNT	HE WILLIAMS	6CR-TL-L20/830-BLACK-DIM-UNV-OW-FINISH-CMXX	LED	120 V	20 W	0-10V	
G	12' LED WITH REGRESS LENS PENDANT, OPAL WHITE DIRECT ONLY OPTICS, ROUND 4" BLACK CANOPY WITH BLACK POWER CORD, 3000K, 10W/FT	PICASSO	TRU-PR-12-D7-NN-30-80-OW-AC1R-ZT1-FINISH-CBPB	LED	120 V	120 W	0-10V	
H1	4.5" LED ROUND DOWNLIGHT WITH TRIMLOCK TECHNOLOGY, OPEN REFLECTOR WITH WIDE DISTRIBUTION	HE WILLIAMS	4DR-TL-L20/830-DIM-UNV-OW-OF-CS-N-F1	LED	120 V	20 W	0-10V	
H2	4.5" LED ROUND DOWNLIGHT WITH TRIMLOCK TECHNOLOGY, OPEN REFLECTOR WITH WIDE DISTRIBUTION	HE WILLIAMS	4DR-TL-L15/830-DIM-UNV-OW-OF-CS-N-F1	LED	120 V	14 W	0-10V	
H3	4.5" LED ROUND DOWNLIGHT WITH TRIMLOCK TECHNOLOGY, OPEN REFLECTOR WITH WIDE DISTRIBUTION	HE WILLIAMS	4DR-TL-L10/830-DIM-UNV-OW-OF-CS-N-F1	LED	120 V	9 W	0-10V	
K	4' LED ROUND LENS UTILITY STRIP, 3000K	HE WILLIAMS	75R-4-L50/840-VBY-ACF/D96-DIM-UNV	LED	120 V	33 W	0-10V	SEE NOTE 1
P	16" LED DOME PENDANT, BLACK EXTERIOR FINISH, WHITE INTERIOR FINISH, CORD MOUNTED WITH BLACK CORD, 3000K, DOMED LENS	BARNLIGHT	BLE-C-DBL16-100-200-CSB-100-NA-LED27-3000K-DL	LED	120 V	27 W	0-10V	
V	2x2 LED TROFFER WITH CENTER BASKET, DIFFUSE RIBBED ACRYLIC SHIELDING, 3000K	HE WILLIAMS	PT-22-L26/830-RA-DIM-UNV	LED	120 V	22 W	0-10V	
X	EDGE LIT EXIT SIGN	HE WILLIAMS	EXIT/EL-SF-G-CP-AN-EM-D	LED	277 V	4 W	NO	

GENERAL NOTES:								
A. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL ACCESSORIES FOR PROPER MOUNTING OF FIXTURES IN SPECIFIC CEILING PER LOCATION OF FIXTURES.								
B. CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER OF ALL LIGHTING FIXTURES (NEW OR SUBSTITUTES).								
C. CONTRACTOR SHALL COORDINATE FINISH, MOUNTING HEIGHTS (IF SUSPENDED), LENSING, AND OTHER AESTHETIC FEATURES OF ALL FIXTURES WITH ARCHITECT.								
D. CONTRACTOR SHALL PROVIDE INSTALLATION AND MATERIALS FOR AN ADDITIONAL 5 EXIT SIGNS OR 10%, WHICHEVER IS GREATER, AS ATTIC STOCK FOR FUTURE USE. ATTIC STOCK EXIT SIGN SPECIFICATION SHALL MATCH ALL THE OTHER EXIT SIGNS ON THIS PROJECT, AS SPECIFIED IN THE LIGHT FIXTURE SCHEDULE.								
NOTES:								
1. PROVIDE CONTINUOUS LENGTH AS SHOWN ON PLANS. CONFIRM EXACT LENGTH WITH ARCHITECTURAL DETAILS AND ARCHITECT. PROVIDE ALL ACCESSORIES FOR A FULLY FUNCTIONING SYSTEM.								
2. PROVIDE NUMBER OF FACES AND CHEVRONS FOR EACH EXIT SIGN PER ELECTRICAL LIGHTING PLANS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS (RCP) FOR CEILING TYPES AT EACH EXIT SIGN LOCATION.								
3. COORDINATE MOUNTING, LENGTH, AND OTHER DETAILS WITH ARCHITECT AS FIXTURE IS INCORPORATED INTO ARCHITECTURAL FEATURE.								
4. FIXTURE REQUIRES REMOTE TRANSFORMER/ DRIVER. CONTRACTOR SHALL SIZE AND SPACE REMOTE TRANSFORMERS/ DRIVERS TO ELIMINATE VOLTAGE DROP. TRANSFORMERS/ DRIVERS SHALL BE VISUALLY AND ACOUSTICALLY CONCEALED.								
5. PROVIDE LIGHT POLE WITH VIBRATION ISOLATION AS RECOMMENDED BY THE MANUFACTURER.								

## MECHANICAL EQUIPMENT POWER SCHEDULE

MECHANICAL EQUIPMENT POWER SCHEDULE														
EQUIPMENT DESIGNATION	ELECTRICAL INFORMATION										DISCONNECT			REMARKS
	ELECTRIC LOAD			VOLT	PHASE	OCPD RATING	PANEL	CIRCUIT NO.	FEEDER	TYPE	SIZE	POLES	FUSE	
	CURRENT (AMPS)	LOAD (WATTS)	OTHER MISCELLANEOUS ELECTRIC LOAD INFORMATION											
AHU-A1-5	3 A	2410 VA	5.02 FLA, 6.22 MCA	480 V	3	15 A	MSB1	1	4#12, #12G, 3/4"	PROVIDED BY MECHANICAL	-	-	-	SEE GENERAL NOTE E
EXHAUST HOOD	4 A	528 VA	0.17 HP	120 V	1	20 A	LL	47	2#12, #12G, 3/4"	PROVIDED BY MECHANICAL	-	-	-	
	2 A	180 VA	1.2 FLA	120 V	1	15 A	1B	35	2#10, #10G, 3/4"	PROVIDED BY MECHANICAL	-	-	-	
FCUL-L1-1	5 A	1123 VA	0.5 HP	208 V	1	20 A	1C	24	2#12, #12G, 3/4"	PROVIDED BY MECHANICAL	-	-	-	SEE GENERAL NOTE E
FCUL-L1-2	5 A	1123 VA	0.5 HP	208 V	1	20 A	LL	44,46	2#12, #12G, 3/4"	PROVIDED BY MECHANICAL	-	-	-	
FCUL-L1-3	9 A	1830 VA	1 HP	208 V	1	20 A	LL	43,45	2#12, #12G, 3/4"	PROVIDED BY MECHANICAL	-	-	-	
LEF-L1-1	8 A	6316 VA	5 HP	480 V	3	20 A	MSB1	2	4#12, #12G, 3/4"	PROVIDED BY MECHANICAL	-	-	-	SEE GENERAL NOTE E
TEF-L1-1	7 A	864 VA	0.33 HP	120 V	1	20 A	7B	1	2#12, #12G, 3/4"	PROVIDED BY MECHANICAL	-	-	-	SEE GENERAL NOTE E

GENERAL NOTES (APPLIES TO ALL):															
A. REFER TO HVAC AND PLUMBING PLANS FOR LOCATIONS OF EQUIPMENT. COORDINATE FINAL LOCATIONS IN FIELD.															
B. DISCONNECT SWITCHES PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL MATCH THE AIC VALVE OF THE UPSTREAM ELECTRICAL PANEL.															
C. COORDINATE WITH MECHANICAL REGARDING RESPONSIBILITY OF MOTOR STARTERS, SO THAT DUPLICATE EQUIPMENT IS NOT PURCHASED.															
D. WHERE VARIABLE FREQUENCY DRIVES (VFDs) AND SERVICE DISCONNECTS ARE SEPARATED, ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH WITH AUXILIARY CONTACTS FOR CONNECTION TO VFD SAFETY INTERLOCK. ELECTRICAL CONTRACTOR SHALL CONNECT DISCONNECT SWITCH AUXILIARY CONTACT TO THE ASSOCIATED VFD SAFETY INTERLOCK VIA 3/4" CONDUIT WITH 2#12 AND #12G STRANDED THIN CONDUCTORS.															
E. CIRCUITS SHOWN ARE SCHEMATIC ONLY AND DO NOT NECESSARILY INDICATE THE ACTUAL PANEL CIRCUIT NUMBERS FOR USE. IT IS INTENDED TO FIRST REUSE EXISTING POWER CIRCUITS THAT ARE AVAILABLE AFTER DEMOLITION OF WALLS AND EQUIPMENT AND THEN USE AVAILABLE SPARES/SPACES AS NEEDED. CONTRACTOR SHALL VERIFY ACTUAL CIRCUIT AVAILABILITY AFTER DEMOLITION AND NOTIFY ARCHITECT IMMEDIATELY IF THE QUANTITY OF AVAILABLE CIRCUITS IS INADEQUATE OR OBTAIN APPROVAL FOR ALTERNATE SOLUTION.															
NOTES:															
1. PROVIDE 120V CONTROLS CIRCUIT TO EACH 120V/24V CONTROLS TRANSFORMER (TRANSFORMER BY MECHANICAL CONTRACTOR). EACH TRANSFORMER SHALL FEED UP TO SIX (6) CONTROL MODULES. DO NOT EXCEED 1500VA PER 120V CONTROLS CIRCUIT. CONDUCTORS BETWEEN THE TRANSFORMERS AND THE CONTROLS SHALL BE BY MECHANICAL CONTRACTOR. REFER TO HVAC PLANS FOR EQUIPMENT LOCATIONS.															
2. MECHANICAL CONTRACTOR TO PROVIDE VARIABLE FREQUENCY DRIVE (VFD). ELECTRICAL CONTRACTOR TO INSTALL.															
3. CIRCUIT CONVENIENCE OUTLET FROM CIRCUIT AS SHOWN ON PLANS.															
4. FURNISH AND CONNECT DUCT MOUNTED SMOKE DETECTOR (INSTALLED BY MECHANICAL) TO FIRE ALARM PANEL.															
5. PLUMBING CONTRACTOR TO PROVIDE CONTROL PANEL AND VFD'S WITH INTEGRAL DISCONNECTS FOR BOOSTER PUMP. ELECTRICAL CONTRACTOR TO MAKE CONNECTION TO CONTROL PANEL.															

## LIGHTING CONTROL PANEL 1 (LCP1)

LIGHTING CONTROL PANEL 1 (LCP1)								
CONTACT	VOLT	PHASE	GENERAL LOCATION ZONE	CIRCUIT	EMERGENCY	DESCRIPTION	CONTROL	REMARKS
EMERGENCY POWER (SEE NOTE 1* AND PROVIDE VOLTAGE BARRIER BETWEEN THIS SECTION AND THE NORMAL SECTION)								
1	120/277	1	aa	EM	YES	ELEVATOR LOBBY B-6 FIXTURES	TIMECLOCK, LOCAL ON/OFF	
2	120/277	1	ab	EM	YES	LOBBY A-4 FIXTURE	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
3	120/277	1	ac	EM	YES	LOBBY A-10 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
4	120/277	1	ad	EM	YES	LOBBY A-5 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
5	120/277	1	ag	EM	YES	LOBBY A-6 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
6	120/277	1	ai	EM	YES	LOBBY H2 FIXTURES	TIMECLOCK, PHOTOCELL, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
7	120/277	1	am	EM	YES	LOBBY H2 FIXTURES	TIMECLOCK, PHOTOCELL, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
8	120/277	1	ap	EM	YES	LOBBY A-6 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
9	120/277	1	as	EM	YES	LOBBY KITCHEN H2 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
10	120/277	1			YES	SPARE		
11	120/277	1			YES	SPARE		
12	120/277	1			YES	SPARE		
13	120/277	1			YES	SPARE		
14	120/277	1			YES	SPARE		
15	120/277	1			YES	SPARE		
16	120/277	1			YES	SPARE		
NORMAL POWER (NON-EMERGENCY)								
17	120	1	ab	1C-6	NO	LOBBY A-4 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
18	120	1	ac	1C-6	NO	LOBBY A-10 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
19	120	1	ad	1C-6	NO	LOBBY A-5 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
20	120	1	ae	1B-8	NO	LOBBY DESK B FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
21	120	1	af	1C-6	NO	LOBBY P FIXTURES	TIMECLOCK, PHOTOCELL, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
22	120	1	ag	1B-8	NO	LOBBY A-6 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
23	120	1	ah	1B-8	NO	LOBBY DESK P FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
24	120	1	ai	1B-8	NO	LOBBY H2 FIXTURES	TIMECLOCK, PHOTOCELL, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
25	120	1	aj	1B-8	NO	LOBBY P FIXTURES	TIMECLOCK, PHOTOCELL, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
26	120	1	ak	1B-8	NO	LOBBY CORRIDOR H3 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
27	120	1	al	1B-8	NO	LOBBY D FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
28	120	1	am	1C-6	NO	LOBBY H2 FIXTURES	TIMECLOCK, PHOTOCELL, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
29	120	1	an	1C-7	NO	VENDING H2 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
30	120	1	ao	1C-6	NO	LOBBY D FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
31	120	1	ap	1C-7	NO	LOBBY A-6 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
32	120	1	aq	1C-7	NO	LOBBY KITCHEN G FIXTURE	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
33	120	1	ar	1C-7	NO	LOBBY KITCHEN F FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
34	120	1	as	1C-7	NO	LOBBY KITCHEN H2 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
35	120/277	1			NO	SPARE		
36	120/277	1			NO	SPARE		
37	120/277	1			NO	SPARE		
38	120/277	1			NO	SPARE		
39	120/277	1			NO	SPARE		
40	120/277	1			NO	SPARE		
41	120/277	1			NO	SPARE		
42	120/277	1			NO	SPARE		
GENERAL NOTES (APPLIES TO ALL):								
A	REFER TO THE LIGHTING CONTROLS NARRATIVE ON THE ELECTRICAL FRONT SHEET FOR FURTHER CONTROLS INFORMATION.							
B	REFERENCE LIGHTING PLANS FOR LOCATION OF CONTROL ZONES.							
C	LIGHTING CONTROL PANELS SHOWN ARE TO DEMONSTRATE DESIGN INTENT ONLY AND DOES NOT DEMONSTRATE THE EXACT AMOUNT OF CONTROL RELAYS REQUIRED.							
D	CIRCUIT NUMBERS INDICATED ARE THE NORMAL CIRCUIT NUMBER ONLY. NOTE THAT ANY EMERGENCY LIGHTING THAT ARE NOTED TO BE CONTROLLED WITH THE NORMAL LIGHTING VIA A UL924 DEVICE WILL HAVE A DIFFERENT CIRCUIT NUMBER.							
E	CONTRACTOR SHALL PROVIDE INSTALLATION AND MATERIALS FOR 20% ADDITIONAL CONTROL RELAYS FOR FUTURE USE.							
F	PROVIDE PHYSICAL BARRIERS TO SEPARATE 120V VS 277V RELAYS, AS WELL AS NORMAL POWER CIRCUITS VS EMERGENCY EGRESS LIGHTING CIRCUITS.							
G	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL DEVICES AND COMPONENTS TO CREATE A COMPLETE SYSTEM AND TO ACHIEVE THE CODE REQUIREMENTS.							
H	PROVIDE ALL RELAYS AS DIMMING TYPE DESPITE DIMMING OR NON-DIMMING FUNCTION OF CONTROL ZONE.							
I	PROVIDE 0-10V WIRING TO ALL FIXTURES AND ZONES.							
J	PROVIDE PHYSICAL BARRIERS TO SEPARATE 120V VS 277V RELAYS, AS WELL AS NORMAL POWER CIRCUITS VS EMERGENCY EGRESS LIGHTING CIRCUITS.							
K	CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS REGARDING LIGHTING CONTROL PANELS. IF LIGHTING CONTROL PANELS ARE NOT PRESENT ON THE PROJECT OR IF THE QUANTITY OF AVAILABLE RELAYS IS INADEQUATE, THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW LIGHTING CONTROL PANELS MATCHING THE BUILDING'S EXISTING LIGHTING CONTROL SYSTEM.							
L	PROVIDE AN EXTERIOR PHOTOCELL AND CONNECT TO LIGHTING CONTROL SYSTEM FOR PROGRAMMING. LOCATE PER MANUFACTURER RECOMMENDATIONS.							
M	PROVIDE INTERCONNECTION BETWEEN ALL LIGHTING CONTROL PANELS (IF THERE ARE MULTIPLE LIGHTING CONTROL PANELS ON THE PROJECT).							
NOTES:								
1	NOT USED.							











PLUMBING GENERAL NOTES:

- A. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS.
- B. ALL WORK SHALL COMPLY WITH THE BUILDING TENANT CONSTRUCTION GUIDE. COORDINATE WITH BUILDING MANAGEMENT/OWNER FOR ACCESS TO ANY TENANT LEASE SPACES THAT MIGHT BE REQUIRED FOR THE INSTALLATION, UNLESS DIRECTED BY LANDLORD ALL EQUIPMENT AND WORKMANSHIP SHALL BE GUARANTEED FOR NO LESS THAN 1 YEAR.
- C. EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY AND PREVIOUS RECORD DRAWINGS DATED 12/30/1989. HOWEVER, IT IS NOT INTENDED TO BE A TRUE REPRESENTATION OF ACTUAL CONDITIONS. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING TO ASCERTAIN EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BID.
- D. PIPING LAYOUT IS SCHEMATIC. EXACT LOCATION OF PIPES TO BE COORDINATED WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS.
- E. CONTRACTOR SHALL COORDINATE PLUMBING ROUGH-IN WITH ARCHITECTURAL DRAWINGS TO PROVIDE EXACT PLUMBING LOCATION FOR FIXTURES.
- F. COORDINATE EXACT LOCATION OF ALL WATER AND DRAIN CONNECTIONS FOR EQUIPMENT PROVIDED BY OTHERS.
- G. RUN ALL WATER LINES LEVEL.
- H. THIS CONTRACTOR IS TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQUIRED FOR COORDINATION WITH WORK OF OTHER TRADES.
- I. SUPPORT CAST IRON SANITARY PIPING NOT IN EARTH, ON 5'-0" CENTERS, ALL STEEL PIPING ON 10'-0" CENTERS AND COPPER PIPING ON 8'-0" CENTERS.
- J. THIS CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING AT ALL PLUMBING RELATED PENETRATIONS OF FIRE AND SMOKE RATED STRUCTURES, FLOORS AND PARTITIONS. REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATIONS OF ALL RATED STRUCTURES.
- K. ALL FIXTURES TO BE EQUIPPED WITH STOP VALVE IN ACCESSIBLE LOCATION.
- L. CONTRACTOR SHALL PROVIDE SHUT-OFF VALVE AT EACH BRANCH LINE CONNECTING TO THE MAIN. PROVIDE BRASS VALVE TAGS WITH DOCUMENTATION IN CLOSEOUT DOCUMENTS.
- M. PROVIDE A SHUT-OFF VALVE ON THE TOP OF EVERY WATER DOWN-FEED PIPE PER IPC 606.1.
- N. MAIN WATER SHUT-OFFS SHALL BE ACCESSIBLE.
- O. PROVIDE ACCESSIBLE CLEANOUTS AT NOT MORE THAN 50 FEET APART IN HORIZONTAL SANITARY DRAINAGE LINES 4" SIZE OR LESS, AND NOT MORE THAN 100 FEET APART FOR LARGER PIPES.
- P. PROVIDE ACCESSIBLE CLEANOUTS AT BASE OF ALL SANITARY STACKS AND OTHER PLACES AS REQUIRED BY CODE.
- Q. WATER HEATER SHALL HAVE BOTH WATER AND ELECTRICAL SHUT-OFFS AT EASILY ACCESSIBLE LOCATIONS.
- R. CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL ABANDONED PLUMBING LINES.
- S. PLUMBING CONTRACTOR SHALL X-RAY SLAB PRIOR TO ANY CORE-DRILLING. COORDINATE WITH BUILDING MANAGEMENT FOR AFTER-HOURS ACCESS TO SPACE. PRIOR TO CORE DRILLING ANY EXISTING FLOORS, OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER.
- T. REFER TO PLUMBING RISER DIAGRAMS FOR PIPING SIZES NOT SHOWN ON PLAN.
- U. IT IS THE INTENTION OF THESE DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. WHEREVER THE WORD PROVIDE IS USED, IT SHALL MEAN FURNISH AND INSTALL, COMPLETE AND READY TO USE.
- V. MATERIALS USED FOR INSULATION, ACOUSTICAL LININGS, ADHESIVES, JACKETS AND COATINGS, AND COMBINATIONS OF THESE MATERIALS, SHALL EACH HAVE A FLAME SPREAD RATING OF 25 OR LESS, AND A SMOKE DEVELOPED RATING OF 50 OR LESS, AS DETERMINED BY AN INDEPENDENT TESTING LABORATORY IN ACCORDANCE WITH NFPA-255.
- W. SINCE SANITARY AND DOMESTIC WATER CONNECTION POINTS ARE NOT KNOWN, UTILIZE CONCEPT ABOVE FOR MAGNITUDE ONLY. DO NOT INSTALL ANY OF THIS WORK UNTIL TIE-INS AND INVERTS ARE FIELD VERIFIED.

FIRE PROTECTION PERFORMANCE SPECIFICATION:

- A. MODIFY THE EXISTING WET PIPE FIRE SPRINKLER SYSTEM AS REQUIRED FOR THE NEW TENANT LAYOUT INCLUDING RELOCATING PIPING TO CLEAR NEW DUCTWORK, ADDING NEW HEADS, RELOCATING EXISTING HEADS, AND LEAVING CERTAIN EXISTING HEADS IN PLACE. THE SPRINKLER DESIGN SHALL COMPLY WITH NFPA 13, THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION AND THE REQUIREMENTS OF THE OWNER'S INSURANCE COMPANY.
- B. EXISTING SPRINKLER HEADS TO BE RELOCATED MAY BE REUSED. EXISTING PIPING WHICH IS REMOVED IN THE MODIFICATION WORK SHALL NOT BE REUSED. NEW SPRINKLER PIPING SHALL BE ROUTED AS REQUIRED TO CLEAR NEW DUCTWORK, EXISTING DUCTWORK TO REMAIN, LIGHT FIXTURES, STRUCTURAL INTERFERENCES, ETC.
- C. THE NEW SPRINKLER HEADS SHALL MATCH EXISTING SPRINKLER HEADS.
- D. IN ALL GYP. BOARD CEILING AREA, PROVIDE CONCEALED SPRINKLER HEADS WITH CAPS TO BE FACTORY PAINTED TO MATCH CEILING. ALL SPRINKLER HEADS IN LAY-IN CEILING SHALL BE LOCATED IN CENTER OF TILE AND ALIGNED WITH LIGHT FIXTURES.
- E. SPRINKLER CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF CALCULATIONS AND SPRINKLER HEAD LOCATIONS FOR ARCHITECT TO REVIEW PRIOR TO ANY INSTALLATION. NO EXCEPTION TAKEN.
- F. ALL SPRINKLER HEADS IN EXPOSED CEILING SHALL BE TURNED TO THE UPRIGHT POSITION AND REPLACE HEADS IF REQUIRED.
- G. ALL PIPING SHALL BE U.S. DOMESTIC ONLY. FOREIGN MANUFACTURED PIPING WILL NOT BE ACCEPTED.
- H. ALL PIPING SHALL BE SCHEDULE 40. SCHEDULE 10 WILL NOT BE ACCEPTED.
- I. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL APPLICABLE CODES, REQUIREMENTS BY THE LOCAL AUTHORITY HAVING JURISDICTION, AND OWNER STANDARDS FOR CONSTRUCTION AND OPERATION OF FIRE SUPPRESSION SYSTEMS. ANY CHANGES TO THE FINAL INSTALLATION DUE TO THE CONTRACTOR NOT HAVING BEEN AWARE OF ANY OF THE ABOVE, SHALL BE MADE AT NO COST TO THE OWNER.

PROJECT COMMISSIONING REQUIREMENTS:

1. ALL BUILDING MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE COMMISSIONED BY A COMMISSIONING AGENT IN ACCORDANCE WITH ALL REQUIREMENTS OF THE INTERNATIONAL ENERGY CONSERVATION (IECC) SECTION C408. REFER TO THE APPLICABLE CODES NOTE ON THIS SHEET FOR THE REQUIRED CODE YEAR OF THE IECC. IT IS THE OWNER'S RESPONSIBILITY TO HIRE A COMMISSIONING AUTHORITY TO ENSURE ALL REQUIRED COMMISSIONING ACTIVITIES AND REQUIREMENTS ARE MET.
2. THE COMMISSIONING AGENT SHALL PERFORM ALL TASKS ACCORDING TO THE REQUIREMENTS OF IECC SECTION C408 AND ANY OTHER REQUIREMENTS OF THE PROJECT.
3. THE TESTING AND BALANCING (TAB), BUILDING AUTOMATION SYSTEMS (BAS), GENERAL CONTRACTOR, MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS SHALL PROVIDE FULL SUPPORT IN ALL COMMISSIONING ACTIVITIES AND PERFORM ALL NECESSARY COMMISSIONING TASKS ON THIS PROJECT AS REQUIRED BY IECC SECTION C408.
4. LEED PROJECTS HAVE ADDITIONAL COMMISSIONING REQUIREMENTS THAT VARY FROM THOSE LISTED ABOVE.

WATER HAMMER ARRESTOR SCHEDULE

PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A 1/4"	1/2"	1-11
B 3/8"	3/4"	12-32
C 1/2"	1"	33-60
D 3/4"	1 1/4"	61-113
E 1 1/4"	1 1/2"	114-154
F 2"	2"	154-330

FIXTURE UNIT TABULATION	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR SINK	3	3
SHOWER/BATH/TUB	2	2

NOTES:  
PC TO PROVIDE WATER HAMMER ARRESTORS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, OR WATTS WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

PLUMBING SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	SAN- SANITARY SEWER
	ST- STORM DRAIN
	RD- ROOF DRAIN
	OFD- OVERFLOW DRAIN
	V- VENT
	CW- DOMESTIC COLD WATER
	RO- REVERSE OSMOSIS
	DI- DEIONIZED WATER
	SCW- SOFT COLD WATER
	DHW- DOMESTIC HOT WATER
	DHWR- DOMESTIC HOT WATER RETURN
	CD- CONDENSATE DRAIN PIPING
	F- FIRE PROTECTION PIPING
	PD- PIPING DOWN
	UD- PIPING UP -OR- PIPING UP & DOWN
	CO- CLEANOUT (CO) OR WALL CLEANOUT (WCO)
	FCO- FLOOR (FCO) OR GRADE (GCO) CLEANOUT
	CEP- CAP ON END OF PIPE
	DF- DIRECTION OF FLOW
	DS- DIRECTION OF SLOPE
	ISOLATION / SHUT-OFF VALVE (SOV) / GAS COCK
	U- UNION
	BV- BALANCING VALVE / CIRCUIT SETTER
	GR- GAS REGULATOR
	PRV- PRESSURE REDUCING VALVE (PRV)
	CV- CHECK VALVE
	CE- CONNECT TO EXISTING
	*NOTE: NOT ALL SYMBOLS MAY BE USED IN PLAN.

PLUMBING ABBREVIATIONS

SYMBOL	DESCRIPTION
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
BOP	BOTTOM OF PIPE
DFU	DRAIN FIXTURE UNIT
ER / er	EXISTING ITEM TO BE RELOCATED
ED / ed	EXISTING ITEM TO BE REMOVED
E / e	EXISTING ITEM TO REMAIN
FD	FIRE DEPARTMENT CONNECTION
FU	FIXTURE UNITS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
IE	INVERT ELEVATION
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PRV	PRESSURE REDUCING VALVE
QTY	QUANTITY
SOV	SHUT OFF VALVE
UNO	UNLESS NOTED OTHERWISE
VTR	VENT THROUGH ROOF

PLUMBING INSULATION SCHEDULE

APPLICATION	INSULATION		INSULATION FINISH (OR PIPE FINISH IF NO INSULATION PRESENT)		
	INSULATION TYPE	INSULATION THICKNESS	INDOOR CONCEALED	INDOOR EXPOSED (C)	OUTDOOR (G)
<b>DOMESTIC COLD WATER PIPING (C)</b>					
INDOOR: PIPE DIAMETER 1-1/4" & SMALLER	6i	1/2"	8F	5F	NA
INDOOR: PIPE DIAMETER 1-1/2" & LARGER	6i	1"	8F	5F	NA
OUTDOOR: 2" & SMALLER	6i	2"	NA	NA	3F
OUTDOOR: 2-1/2" - 6"	6i	2"	NA	NA	3F
<b>DOMESTIC HOT WATER PIPING</b>					
INDOOR: PIPE DIAMETER 1-1/4" & SMALLER	6i	1"	8F	5F	NA
INDOOR: PIPE DIAMETER 1-1/2" & LARGER	6i	1-1/2"	8F	5F	NA
BELOW GRADE: ALL SIZES	4i	1-1/2"	NA	NA	NA
OUTDOOR: ALL SIZES	6i	2"	NA	NA	3F
<b>STORM AND STORM OVERFLOW PIPING</b>					
INDOOR: ALL SIZES	6i	1"	8F	5F	NA
OUTDOOR: ALL SIZES	NA	NA	NA	NA	NA
INDOOR: ROOF DRAIN AND OVERFLOW DRAIN BODIES	6i	1"	8F	8F	NA
<b>SANITARY SEWER AND GREASE WASTE PIPING</b>					
INDOOR: CONCEALED, ALL SIZES	NA	NA	NA	NA	NA
OUTDOOR: EXPOSED OR CONCEALED, ALL SIZES	NA	NA	NA	NA	NA
INDOOR: EXPOSED (C)(D), ALL SIZES	6i (A) (D)	1/2"	NA	5F (D)	NA
WITH HEAT TRACE - INDOOR: ALL SIZES	6i	1-1/2"	8F	5F	NA
WITH HEAT TRACE - OUTDOOR: ALL SIZES	6i	2"	NA	NA	3F
ABOVE GRADE: 1ST 10FT PIPING RECEIVING COLD CONDENSATE INCLUDING THE FLOOR DRAIN AND P-TRAP	6i (A)	1"	8F	5F	NA
BELOW GRADE: 1ST 10FT PIPING RECEIVING COLD CONDENSATE INCLUDING THE FLOOR DRAIN AND P-TRAP	NA	NA	NA	NA	NA
ABOVE GRADE: 1ST 28FT PIPING RECEIVING HOT WATER DISCHARGE INCLUDING THE FLOOR DRAIN AND P-TRAP (E)	6i (A)	1"	8F	5F	NA
BELOW GRADE: 1ST 28FT PIPING RECEIVING HOT WATER DISCHARGE INCLUDING THE FLOOR DRAIN AND P-TRAP	NA	NA	NA	NA	NA
<b>COLD CONDENSATE DRAIN LINES</b>					
INDOOR OR OUTDOOR: EXPOSED OR CONCEALED, ALL SIZES	6i (A)	1/2"	8F	5F	9F
<b>VENT PIPING</b>					
INDOOR: CONCEALED, ALL SIZES	NA	NA	NA	NA	NA
OUTDOOR: EXPOSED OR CONCEALED, ALL SIZES	NA	NA	NA	NA	NA
INDOOR: EXPOSED (C)(D), ALL SIZES	6i (A) (D)	1/2"	NA	5F (D)	NA
<b>NATURAL GAS</b>					
INDOOR: CONCEALED, ALL SIZES	NA	NA	NA	NA	NA
INDOOR: EXPOSED (C), ALL SIZES	NA	NA	NA	NA	NA
OUTDOOR: EXPOSED OR CONCEALED, ALL SIZES	NA	NA	NA	NA	9F

GENERAL NOTES (APPLIES TO ALL):

- \* NOT ALL PIPE TYPES MAY BE USED IN PLAN. REFER TO FLOOR PLANS FOR MORE INFORMATION.

NOTES:

- A. CELLULAR FOAM MAY BE SUBSTITUTED
- B. USE 9F FINISH FOR CELLULAR FOAM
- C. THIS INCLUDES BUT IS NOT LIMITED TO, PIPING EXPOSED IN MECHANICAL ROOMS, PIPING IN OPEN CEILINGS EXPOSED TO THE PUBLIC OR PRIVATE PERSONNEL, OR EXPOSED PIPING DOWN KITCHENS WALLS, ETC.
- D. INSULATION ON INDOOR EXPOSED SANITARY PIPING IS FOR AESTHETIC APPEAL ONLY AND ONLY PROVIDED AT THE DIRECTION OF THE ARCHITECT IN VERY LIMITED LOCATIONS. THE CONTRACTOR SHALL ONLY PROVIDE THIS INSULATION WHERE IT IS SPECIFICALLY CALLED OUT ON THE PLUMBING FLOOR PLANS. IF NOT INDICATED ON THE PLUMBING FLOOR PLANS, THE CONTRACTOR SHALL TREAT INDOOR EXPOSED SANITARY PIPING THE SAME WAY INDOOR CONCEALED SANITARY PIPING IS TREATED IN THIS SCHEDULE. REFER TO THE PLUMBING FLOOR PLANS FOR LOCATIONS. REFER TO THE ARCHITECTURAL PLANS FOR COLOR SELECTIONS.
- E. DRAIN SERVING ANY WATER HEATING APPLIANCE (120 °F AND HIGHER); THIS INCLUDES BUT IS NOT LIMITED TO DRAINS BESIDE DOMESTIC WATER HEATERS, HEATING WATER BOILERS, AND DIRECT CONNECTIONS OR DRAINS RECEIVING WATER FROM DISHWASHERS, ETC.
- F. ALL PROCESS WATER PIPES SHALL BE INSULATED TO THE SAME LEVEL AS THE DOMESTIC COLD WATER LISTED IN THE SCHEDULE ABOVE. THIS INCLUDES, BUT IS NOT LIMITED TO, DEIONIZED (DI) WATER, FILTERED WATER, REVERSE OSMOSIS (RO) WATER, ETC, IF PRESENT.
- G. OUTDOORS INCLUDES ANY UNHEATED AREAS. REFER TO THE HEAT TRACE DETAIL FOR MORE DETAIL DESCRIPTIONS OF LOCATIONS CONSIDERED OUTDOORS.

INSULATION MATERIALS:

1. CALCIUM SILICATE - MAXIMUM K FACTOR AT 500 DEGREES F SHALL BE 0.55, MUST ASTM C411 TO 1200 DEGREES F, AND MUST MEET NFPA 255 AND UL 723 FOR 0/0 FLAME SPREAD AND SMOKE DEVELOPED.
2. FIBERGLASS BOARD - PROVIDE SEMI-RIGID FIBERGLASS BOARD WITH A DENSITY OF 3 LBS/FT<sup>3</sup>. MAXIMUM K FACTOR AT 75 DEGREES F SHALL BE 0.24 AND A TEMPERATURE LIMIT OF 250 DEGREES F (FACED) AND 450 DEGREES F (UNFACED). NFPA 255 AND UL 723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPED.
3. FIBERGLASS DUCT WRAP - MAXIMUM K FACTOR AT 75 DEGREES F SHALL BE 0.30, MUST PASS ASTM C411 TO 250 DEGREES F FACED. DENSITY SHALL BE 0.75 LBS/FT<sup>3</sup>. NFPA 255 AND UL 723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPMENT.
4. CELLULAR FOAM - EQUAL TO API/ARMAFLEX TUBES OR SHEETS, AS APPLICABLE TO INSTALLATION, MAXIMUM K FACTOR AT 75 DEGREES F SHALL BE 0.28, MAXIMUM OPERATING TEMPERATURE OF 200 DEGREES F. MUST MEET NFPA 255 AND UL723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPED AND MUST BE FREE OF ANY CPFS, HPFS, OR HPFS
5. FIBERGLASS DUCT LINER - REFER TO SECTION 23313 FOR ADDITIONAL INFORMATION
6. FIBERGLASS PIPE INSULATION - MAXIMUM K FACTOR AT 100 DEGREES F SHALL BE 0.24, MUST PASS ASTM C411 TO 850 DEGREES F. DENSITY SHALL BE 3.5 LBS/FT<sup>3</sup> NFPA 255 AND UL 723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPED.
7. MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I OR II
- NA. NOT APPLICABLE OR NONE REQUIRED.

FINISH TYPES

- 1F. 0.010" T-304 STAINLESS STEEL JACKETING - CORRUGATED. PROVIDE 3/16" CORRUGATED ROLL JACKETING FOR PIPING AND TANKS LESS THAN 6 FEET DIAMETER AND DEEP CORRUGATED SHEETS FOR DIAMETERS LARGER THAN 6 FEET.
2. 0.010" T-304 STAINLESS STEEL JACKETING - SMOOTH FINISH
- 3F. CORRUGATED ALUMINUM - 0.016" UP THROUGH 24" PIPE SIZE, 0.024" LARGER THAN 24".
- 4F. SMOOTH ALUMINUM - 0.016" UP THROUGH 12" PIPE SIZE, 0.024" LARGER THAN 12".
- 5F. 20-MIL PVC (25 FLAME SPREAD AND 50 SMOKE DEVELOPED.)
- 6F. FOILREINFORCEDKRAACK JACKET (VAPOR BARRIER)
- 9F. 14-INCH WEATHERPROOF MASTIC WITH GLASS MESH REINFORCEMENT. SLOPE TOP OF DUCT MINIMUM OF 1/4" PER FOOT TO PREVENT PONDING.
- 8F. WHITE ALL-SERVICE JACKET (VAPOR BARRIER)
- 9F. WATER-BASED LATEX ENAMEL, WEATHER RESISTANT AND UV RESISTANT FINISH EQUAL TO ARMAFLEX WB FINISH.
- 10F. 125 MILS THICK EXTRUDED, BLACK, HIGH DENSITY POLYETHYLENE (HDPE). INNER SURFACE SHALL BE OXIDIZED BY MEANS OF CORONA OR FLAME TREATMENT.
- NA. NOT APPLICABLE OR NO FINISH REQUIRED.

PLUMBING DESIGN CRITERIA		NOTES
MINIMUM INCOMING WATER TEMPERATURE	50°F	
STARTING INVERT ELEVATION	24" BFF	TYPICAL UNLESS NOTED OTHERWISE
ENDING INVERT ELEVATION	REFER TO UNDERFLOOR PLANS	

PLUMBING APPLICABLE CODES

- 2021 INTERNATIONAL PLUMBING CODE (IPC)
- 2021 INTERNATIONAL FUEL GAS CODE (IFGC)
- 2021 INTERNATIONAL ENERGY CONSERVATION (IECC)
- CURRENT CAMPUS DESIGN GUIDELINES
- CITY OF DENTON LOCAL AMENDMENTS

FIRE SUPPRESSION APPLICABLE CODES

- FM GLOBAL
- 2021 INTERNATIONAL FIRE CODE (IFC)
- CURRENT CAMPUS DESIGN GUIDELINES
- CITY OF DENTON LOCAL AMENDMENTS

Note:  
THESE DOCUMENTS ARE A PRELIMINARY SET OF DRAWINGS FOR THE PROJECT. THEY ARE NOT TO BE USED FOR CONSTRUCTION OR FOR ANY OTHER PURPOSE. ANY CHANGES TO THE DESIGN SHALL BE MADE BY THE ARCHITECT OR ENGINEER OF RECORD. THE USER OF THESE DOCUMENTS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR COMPLYING WITH ALL APPLICABLE CODES, RULES, REGULATIONS AND REQUIREMENTS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR COMPLYING WITH ALL APPLICABLE CODES, RULES, REGULATIONS AND REQUIREMENTS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR COMPLYING WITH ALL APPLICABLE CODES, RULES, REGULATIONS AND REQUIREMENTS.

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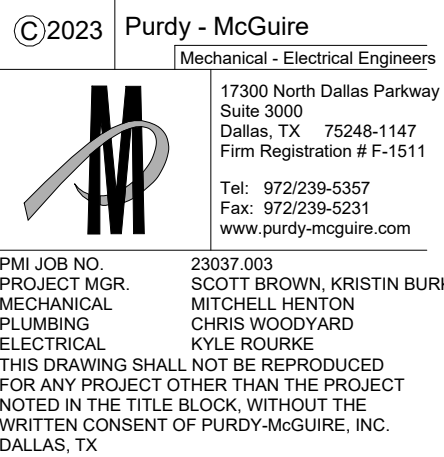
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PLUMBING FIXTURE SCHEDULE WITH IMAGES											
IMAGE	DESIGN.	FIXTURE	MANUFACTURER	MODEL NUMBER	ADDITIONAL COMPONENTS	GPF/GPM	ROUGH-IN CONNECTION SIZES				DESCRIPTION
							DCW	DHW	SAN	VENT	
	WCA	WATER CLOSET BODY	KOHLER	WELLCOMME ULTRA 15" HEIGHT, 1.1 GPF TO 1.6 GPF, ELONGATED BOWL, VITREOUS CHINA WITH EVERECLEAN FINISH, MODEL # 3451.001	PROVIDE WITH "FVW" FLUSH VALVE FOR WATER CLOSET, DEFINED ON THIS SCHEDULE.	-	REF: FVW	-	4"	2"	FLOOR MOUNTED, 15" HEIGHT, SIPHON JET, ELONGATED BOWL WITH CHURCH #9500C SEAT.
	WCB (ADA)	WATER CLOSET BODY	KOHLER	WELLCOMME ULTRA 16.5" HEIGHT, 1 GPF TO 1.6 GPF, ELONGATED WITH EVERECLEAN FINISH, MODEL #3461.001	PROVIDE WITH "FVW" FLUSH VALVE FOR WATER CLOSET, DEFINED ON THIS SCHEDULE.	-	REF: FVW	-	4"	2"	FLOOR MOUNTED, 16.5" ADA HEIGHT, SIPHON JET, ELONGATED BOWL, WITH CHURCH #9500C SEAT.
	FVW	MANUAL WATER CLOSET FLUSH VALVE	SLOAN	MODEL # ROYAL 111-128	-	1.28 GPF	1"	-	-	-	EXPOSED, MANUAL FLUSH VALVE, AND HIGH EFFICIENCY, IF INSTALLED ON ADA WATER CLOSET, CONFIRM ROUGH-IN HEIGHTS WITH ARCHITECTURAL DRAWINGS AND MANUFACTURER'S RECOMMENDED ADA INSTALLATION PRIOR TO ROUGH-IN. FIXTURE SHALL HAVE LEED WATERSENSE LABELING.
	URA / URB(ADA)	URINAL BODY	AMERICAN STANDARD	WASHBROOK FLOWISE UNIVERSAL URINAL, 0.125GPF TO 1.0GPF, ELONGATED RIM WITH EVERECLEAN FINISH, MODEL #6590.001	PROVIDE WITH "FVU" FLUSH VALVE FOR URINAL, DEFINED ON THIS SCHEDULE.	-	REF: FVU	-	2"	1-1/2"	WALL HUNG, WASHOUT FLUSH ACTION, WITH STAINLESS STEEL STRAINER AND JOSAM CARRIER, INSTALLED AT 24" MOUNTING HEIGHT FOR A STANDARD URINAL "URA" AND INSTALLED AT ADA MOUNTING HEIGHT OF 17" FROM FLOOR TO LIP OF URINAL BASIN FOR URINAL "URB".
	LA	LAVATORY BOWL	KOHLER	CAXTON, UNDER-MOUNT SINK, MODEL # K-2210	PROVIDE WITH "FTL" FAUCET FOR LAVATORY, DEFINED ON THIS SCHEDULE.	-	REF: FTL	REF: F TL	2"	1-1/2"	UNDERCOUNTER 19"x16" VITREOUS CHINA LAVATORY BOWL, GLAZED AND ADA COMPLIANT. PROVIDE WITH CHROME-PLATED CAST BRASS P-TRAP WITH CLEANOUT, CHROME PLATED GRIP TYPE SUPPLY WITH WALL ESCUTCHEON AND LOOSE-KEY WALL STOPS EQUAL TO MCQUIRE NO. H2-15SLK. PROVIDE TRUEBRO INSULATION KIT FOR ADA COMPLIANCE.
	FTL	MANUAL LAVATORY FAUCET	KOHLER	HONESTY SERIES SINGLE-HANDLE BATHROOM SINK MODEL K099760-4N-CP	PROVIDE WITH "TMV" POINT OF USE THERMOSTATIC MIXING VALVE, DEFINED ON THIS SCHEDULE.	0.5 GPM	1/2"	1/2"	-	-	MULTIPLE LAMINAR SPRAY HEAD FAUCET WITH CHROME PLATED BRASS GRID STRAINER ASSEMBLY, CONFIRM ALL FINISH COLORS WITH ARCHITECT PRIOR TO ORDER.
	SKA	UNDERMOUNT SINK	KOHLER	CAIRN MODEL # K-28000 SINK DRAIN AND STRAINER WITH TAILPIECE, K-8801 & K-23726	PROVIDE WITH "GD" GARBAGE DISPOSAL AND "FTS" FAUCET FOR SINK, DEFINED ON THIS SCHEDULE.	-	REF: FTS	REF: FTS	2"	1-1/2"	UNDERCOUNTER MOUNT, 27.5" x 18.3125" x 5-1/2", SINGLE COMPARTMENT, 18 GA. TYPE 302 STAINLESS STEEL AND ADA COMPLIANT. PROVIDE WITH DRAIN AND STRAINER. CONTRACTOR SHALL COORDINATE COUNTER CUT OUT WITH FAUCET SELECTION AND ARCHITECTURAL DRAWINGS PRIOR TO ORDER. PROVIDE CHROME PLATED CAST P-TRAP WITH CLEANOUT, CHROME PLATED FLEX SUPPLIES, WALL STOPS AND WALL ESCUTCHEONS. PROVIDE TRUEBRO INSULATION KIT FOR ADA COMPLIANCE. CONFIRM EXACT DIMENSIONS WITH OWNER AND ARCHITECT PRIOR TO ORDER.
	FTS	KITCHEN SINK FAUCET	KOHLER	CRUE FAUCET MODEL # K-22973	PROVIDE WITH "TMV" POINT OF USE THERMOSTATIC MIXING VALVE, DEFINED ON THIS SCHEDULE.	1.5 GPM	1/2"	1/2"	-	-	SEMI-PROFESSIONAL SINK WITH THREE-FUNCTION SPRAYHEAD FAUCET FOR HOT AND COLD WATER. FAUCET SHALL A MANUAL LEVER HANDLE. FAUCET SHALL BE ADA COMPLIANT, NSF 61 CERTIFIED LEAD FREE, DECK MOUNTED, PULL DOWN SPRAY HEAD, 8" SWIVEL GOOSENECK SPOUT, REFER TO ARCHITECT FOR FIXTURE FINISH AND COLORS.
	MS	MOP SINK	FLORESTONE	MODEL # 87	PROVIDE WITH "FTM" FAUCET FOR SERVICE OR MOP SINK, DEFINED ON THIS SCHEDULE.	-	REF: FTM	REF: FTM	3"	2"	24" X 24" X 12" TERRAZZO MOP SINK WITH STAINLESS STEEL BUMPER GUARD, STAINLESS STEEL BACK PANELS.
	FTM	FAUCET FOR MOP OR SERVICE SINK	CHICAGO FAUCETS	MODEL # 540-LD897SGXKCCP	PROVIDE WITH "TMV" POINT OF USE THERMOSTATIC MIXING VALVE, DEFINED ON THIS SCHEDULE, AND 5FT HOSE.	FULL FLOW	3/4"	3/4"	-	-	VANDAL PROOF LEVER, VACUUM BREAKER, CHROME PLATED, PAIL HOOK, HOSE THREADED OUTLET, ADA COMPLIANT. PROVIDE WITH 5FT HOSE AND COUPLING.
	EWC	ELECTRIC WATER COOLER WITH BOTTLE FILLER	HALSEY TAYLOR (ELKAY)	EZSTL8WSK	PROVIDE WITH "RPZ-S" (REDUCED PRESSURE ZONE SMALL) BACKFLOW PREVENTION DEVICE, DEFINED ON THIS SCHEDULE. MOUNT THE RPZ WITHIN THE WATER COOLER HOUSING, AND ABOVE THE LEVEL OF THE P-TRAP SO IT CAN GRAVITY DRAIN TO THE P-TRAP. ROUTE RPZ DRAIN TO THE TAILPIECE OF THE P-TRAP WITHIN THE WATER COOLER. TAP THE RPZ DRAIN LINE INTO THE SIDE OF THE TAILPIECE BEFORE THE P-TRAP. IF THE RPZ DOES NOT PHYSICALLY FIT WITHIN THE WATER COOLER HOUSING, PROVIDE THE RPZ IN THE CEILING JUST ABOVE THE WATER COOLER, OR IN THE WALL BESIDE THE WATER COOLER. ENSURE THE RPZ IS ACCESSIBLE AND PROVIDE ACCESS PANELS AS NEEDED IN THE WALL OR CEILING.	8 GPH	1/2"	-	2"	1-1/2"	BARRIER FREE, BI-LEVEL, REFRIGERATED, NON-FILTERED, WATER COOLER AND BOTTLE FILLING STATION WITH STAINLESS STEEL FINISH. PROVIDE WITH WALL CARRIER #MLP200. COOLER BI-LEVEL UNIT SHALL DELIVER 8.0 GPH OF 60 F WATER AT 60 F INLET TEMPERATURE. REFRIGERANT SHALL BE R134A. PROVIDE WITH FACTORY INSTALLED PLUG AND POWER CORD. COORDINATE WITH ELECTRICAL CONTRACTOR TO ENSURE A SIMPLE, GFCI RECEPTACLE, OR GFCI CIRCUIT BREAKER IF THE RECEPTACLE IS INACCESSIBLE, ON A DEDICATED 120V/20A/1P CIRCUIT IS PROVIDED AT EACH WATER COOLER.
	HD	HUB DRAIN	JOSAM	SERIES 88660	-	-	-	-	REF: PLANS	REF: PLANS	OPEN CAST IRON DRAINAGE HUB. REFER TO PLANS FOR SIZE.
	FD	FLOOR DRAIN SQUARE	JOSAM	MODEL # 30000-S	-	-	-	-	3"	2"	SQUARE, COATED CAST IRON FLOOR DRAIN, TWO-PIECE BODY WITH DOUBLE DRAINAGE FLANGE, FLASHING COLLAR, WEEP-HOLES, AND BOTTOM OUTLET. PROVIDE CHROME PLATED STRAINER. DRAIN SHALL BE COVERED DURING CONSTRUCTION. PROVIDE WITH PROTECTIVE DEBRIS COVER.
	FS	FLOOR SINK	JOSAM	SERIES 49320A-NB-3-55	-	-	-	-	4"	2"	SQUARE CAST IRON FLOOR SINK WITH PORCELAIN COATED INTERIOR, DOUBLE DRAINAGE FLANGE WITH WEEPHOLES, BOTTOM OUTLET, ALUMINUM INTERNAL DOME STRAINER, NON-TRAPPIED ANTI-TILTING GRATE. 12" X 12" TOP SIZE WITH 1/2 CAST IRON GRATE. PROVIDE WITH TRAP GUARD, "WTG" OR TRAP PRIMER "WTP" AS INDICATED PER PLANS.
	FCO	FLOOR CLEANOUT	JOSAM	SERIES 55000-2-31	-	-	-	-	REF: PLANS	-	CAST IRON BODY WITH SATIN FINISH NIKOLAY TOP. CONFIRM FINISH COLOR WITH ARCHITECT. CONFIRM EXACT LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.
	WCO	WALL CLEANOUT	JOSAM	SERIES 58910	-	-	-	-	REF: PLANS	-	COATED CAST IRON CLEANOUT TEE WITH RECESSED, TAPPED PLUG AND POLISHED STAINLESS STEEL COVER (SERIES 58600).
	WMB	WASHING MACHINE BOX	OATEY	MODEL #38540	INSTALL WATER LINES WITH WATER HAMMER ARRESTORS.	-	1/2"	1/2"	2"	2"	QUATRO 1/4 TURN BRASS HAMMER BALL VALVE - COPPER SWEAT PACK.
	HSA	HYDRAULIC SHOCK ABSORBER	JOSAM	SERIES 75000	-	-	REF: PLANS	REF: PLANS	-	-	WROUGHT COPPER SHELL SIZE AND LOCATE IN ACCORDANCE WITH P.D.I. STANDARDS.
	VTR	VENT TO ROOF - TWO WAY CARBON FILTER	STUDOR	MAXI-FILTRA	-	-	-	-	-	REF: PLANS	PROVIDE CARBON FILTER ON ALL VENT TO ROOF LOCATIONS. INSTALL PER MANUFACTURERS RECOMMENDATIONS. CARBON FILTER SHALL BE EXTERIOR RATED, PROVIDED WITH ALUMINUM EXTERIOR COVER. IT SHALL BE A 2-WAY VENT, FILTERING AIR IN BOTH DIRECTIONS. CONTRACTOR SHALL PROVIDE (1) REPLACEMENT CARTRIDGE IN THE MANUFACTURER'S ORIGINAL PACKAGING FOR OWNER'S ATTIC STOCK. REFER TO VENT TO ROOF DETAIL FOR MORE INFORMATION.
	TG	TRAP GUARD	PRO-SET	TRAP GUARD	-	-	-	-	REF: FDx	-	INSTALL ON ALL FLOOR DRAINS, FLOOR SINKS, FLOOR TROUGHS AND HUB DRAINS THAT ARE INDICATED "WTG" WITH TRAP GUARD. NOTE THAT ANY ALTERNATE TRAP GUARD SUBMITTED MUST BE OF THIS "LAMBS TONGUE" OR "CURLING FLAP" TYPE FORM. NO OTHER FORMS OF TRAP GUARDS WILL BE ACCEPTED.
	AG	DISHWASHER AIR GAP	DEARBORN BRASS	MODEL # DB-CD-3	-	-	-	-	REF: EQUIP MENT	-	COPPER BODY AIR GAP WITH POLISHED CHROME PLATED METAL CAP. PROVIDE WITH NECESSARY ACCESSORIES AND TUBING FOR A COMPLETE INSTALLATION. CONFIRM COLOR/FINISH WITH ARCHITECT
	BFP	SMALL DUAL CHECK VALVE WITH ATMOSPHERIC PORT AND STRAINER FOR CARBONATED BEVERAGE MACHINE OR COFFEE MAKER, ETC	WATTS	MODEL # SD-3	-	-	REF: PLANS	REF: PLANS	VARIES	-	ASSE 1022 BACKFLOW PREVENTER FOR CARBONATED BEVERAGE MACHINES AND OTHER APPLIANCES. SHALL BE LEAD FREE. PROVIDE COPPER DRAIN PIPING (SIZE PER MANUFACTURER) FROM VALVE ASSEMBLY AND ROUTE TO NEAREST DRAIN (HUB DRAIN OR FLOOR SINK).
	RPZ-S	SMALL REDUCED PRESS RELIEF ASSEMBLY FOR MAKEUP WATER TO MECHANICAL EQUIPMENT, ICE MACHINE, OR WATER FILTER, ETC	WATTS	1/2" - 2" MODEL #LF009QT	-	-	REF: PLANS	REF: PLANS	-	-	ASSE 1013 COMPLIANT REDUCED PRESSURE ZONE ASSEMBLY. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. PROVIDE WITH SHUTOFF VALVES, LEAD FREE, FDA EPOXY COATED. PROVIDE FULL SIZE COPPER DRAIN PIPING FROM VALVE ASSEMBLY AND PROVIDE FLOOR SINK FOR DRAIN NEAR ASSEMBLY AS SHOWN ON DRAWINGS. ENSURE ASSEMBLY IS ACCESSIBLE PER LOCAL JURISDICTION'S GUIDELINES.

PLUMBING FIXTURE SCHEDULE WITH IMAGES											
IMAGE	DESIGN.	FIXTURE	MANUFACTURER	MODEL NUMBER	ADDITIONAL COMPONENTS	GPF/GPM	ROUGH-IN CONNECTION SIZES				DESCRIPTION
							DCW	DHW	SAN	VENT	
	TMV	POINT OF MIXING VALVE	LEONARD	S-170A-LF	-	-	REF: PLANS	REF: PLANS	-	-	POINT OF USE MIXING VALVE. VALVE SHALL BE ASSE 1070 CERTIFIED AND CAPABLE OF MEETING OR EXCEEDING ALL OF THE FOLLOWING CHARACTERISTICS: -MINIMUM FLOW: 0.25 GPM (0.95 L/MIN) CERTIFIED TO ASSE -MAXIMUM FLOW: 4 GPM -MAXIMUM PRESSURE: 125 PSI (8.6 BAR) -MAXIMUM HOT WATER TEMPERATURE: 180 DEG F (82 DEG C) -HOT WATER INLET TEMPERATURE RANGE: 120-180 DEG F (49-82 DEG C) -COLD WATER INLET TEMPERATURE RANGE: 33-80 DEG F (1-27 DEG C) -TEMPERATURE ADJUSTMENT RANGE: 95-120 DEG F (35-49 DEG C) -NSF 61 CERTIFIED LEAD-FREE
	TMV ACCEPTABLE ALTERNATE	POINT OF MIXING VALVE	SLOAN	MODEL # MIX-135 0326045PK	-	-	REF: PLANS	REF: PLANS	-	-	POINT OF USE MIXING VALVE. VALVE SHALL BE ASSE 1070 CERTIFIED AND CAPABLE OF MEETING OR EXCEEDING ALL OF THE FOLLOWING CHARACTERISTICS: -MINIMUM FLOW: 0.5 GPM (2.2 L/MIN) CERTIFIED TO ASSE 1016 (ONLY ALLOWED IF FAUCET IS 0.5 GPM OR GREATER, IF THE FAUCET IS LESS THEN 0.5 GPM THE CONTRACTOR SHALL PROVIDE THE LEONARD TMV.) -MAXIMUM FLOW: 4 GPM -MAXIMUM PRESSURE: 125 PSI (8.6 BAR) -MAXIMUM HOT WATER TEMPERATURE: 180 DEG F (82 DEG C) -HOT WATER INLET TEMPERATURE RANGE: 120-180 DEG F (49-82 DEG C) -COLD WATER INLET TEMPERATURE RANGE: 33-80 DEG F (1-27 DEG C) -TEMPERATURE ADJUSTMENT RANGE: 95-120 DEG F (35-49 DEG C) -NSF 61 CERTIFIED LEAD-FREE

GENERAL NOTES:  
1 REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.  
2 EQUIPMENT SHALL BE INSTALLED TO MEET ALL RECOMMENDATIONS OF THE MANUFACTURERS, MANUFACTURERS PIPING DIAGRAM, ETC.  
3 ALL WATER CLOSET FLUSH VALVES, URINAL FLUSH VALVES, PRIVATE LAVATORY FAUCETS, AND SHOWERHEAD FAUCETS SHALL BE LEED WATERSENSE LABELED. NO EXCEPTIONS. EVEN IF THE PROJECT IS NOT A LEED PROJECT PURDY-MCQUIRE STILL REQUIRES ALL THESE FIXTURE TYPES TO BE WATERSENSE LABELED.  
4 REFER TO ARCHITECTURAL PLANS FOR ALL FINISH COLORS. FOR ALL VISIBLE FIXTURES, THE CONTRACTOR SHALL INCLUDE PRICING FOR A PREMIUM FINISH IN THE BASE BID TO BE SELECTED BY THE ARCHITECT DURING THE SUBMITTAL PHASE.  
5 SUBJECT TO COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THE SCHEDULE AND SPECIFICATIONS, EQUAL MANUFACTURERS INCLUDE THE FOLLOWING:  
A. FLUSHOMETERS: SLOAN, AMERICAN STANDARD, TOTO AND ZURN.  
B. FIXTURE SUPPORTS: JOSAM, MIFAB, JAY R. SMITH, TYLER PIPE WADE DIV., WATTS DRAINAGE PRODUCTS AND ZURN.  
C. WATER CLOSETS AND URINALS: AMERICAN STANDARD, KOHLER, SLOAN, TOTO, ZURN, AND CHURCH (SEATS).  
D. LAVATORIES AND FAUCETS: AMERICAN STANDARD, ELKAY, KOHLER, SLOAN, TOTO, BRADLEY, AND ZURN.  
E. SINKS AND FAUCETS: AMERICAN STANDARD, ELKAY, JUST, CHICAGO, ADVANCE TABCO, AND SYMMONS.  
F. MOP SINKS: FIAT, FLORESTONE, AMERICAN STANDARD, ELKAY, ZURN, AND SPEAKMAN.  
G. EMERGENCY SHOWERS AND EYE WASHES: GUARDIAN, BRADLEY, AND SPEAKMAN.  
H. WATER METERS: MASTER METER, BADGER, NEPTUNE, AND EMON.  
I. DRAINS AND CLEAN-OUTS: JOSAM, MIFAB, JAY R SMITH, WATTS, ZURN, AND SIOUX CHIEF.  
J. TRAP GUARDS: PRO-SET. SEE THE TRAP GUARD DESCRIPTION ABOVE FOR OTHER EQUAL ALTERNATE MANUFACTURERS.  
K. BACKFLOW PREVENTERS: WATTS, AND BEECO.

Plumbing Equipment Extended Warranty Schedule		
Spec Section		
	Product	Extended Warranty Description
Division 22 - Plumbing		
220513	Variable frequency drives	30 months parts and labor for all components
220533	Electric heating cables	2 years parts and labor
223300	Commercial electric water heaters - Instantaneous	5 years parts and labor for five years.
223300	Commercial electric water heaters - Tank type	5 years parts and labor resulting from tank leaks.
223400	Commercial fuel-fired water heaters - Tank type	Leaks and all components parts and labor for three years.
223400	Commercial fuel-fired water heaters - Instantaneous	Leaks and heat exchanger 5 years parts and labor; All other components 3 years parts and labor.
223500	DHW semi-instantaneous heat exchangers	5 years parts and labor for heat exchanger and pressure vessel; All other components 3 years parts and labor.
Notes:		
1. All materials, equipment, and workmanship for all MEP systems are fully warranted for 1 year from the date of substantial completion. This warranty shall include required parts and labor.		
2. Extended warranties listed above also begin at the date of substantial completion.		
3. The most stringent requirements, from either this schedule or the specifications, shall be met by the contractor.		



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THE JOB NO. IS: 2302-230  
PROJECT MGR: SCOTT BROWN, KRISTIN BURKE  
MECHANICAL: MITCHELL HENTON  
PLUMBING: CHRIS WOODWARD  
ELECTRICAL: KYLE HUBBARD  
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Professional Engineer  
2-6-2024

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**KERR HALL INTERIOR RENOVATION**  
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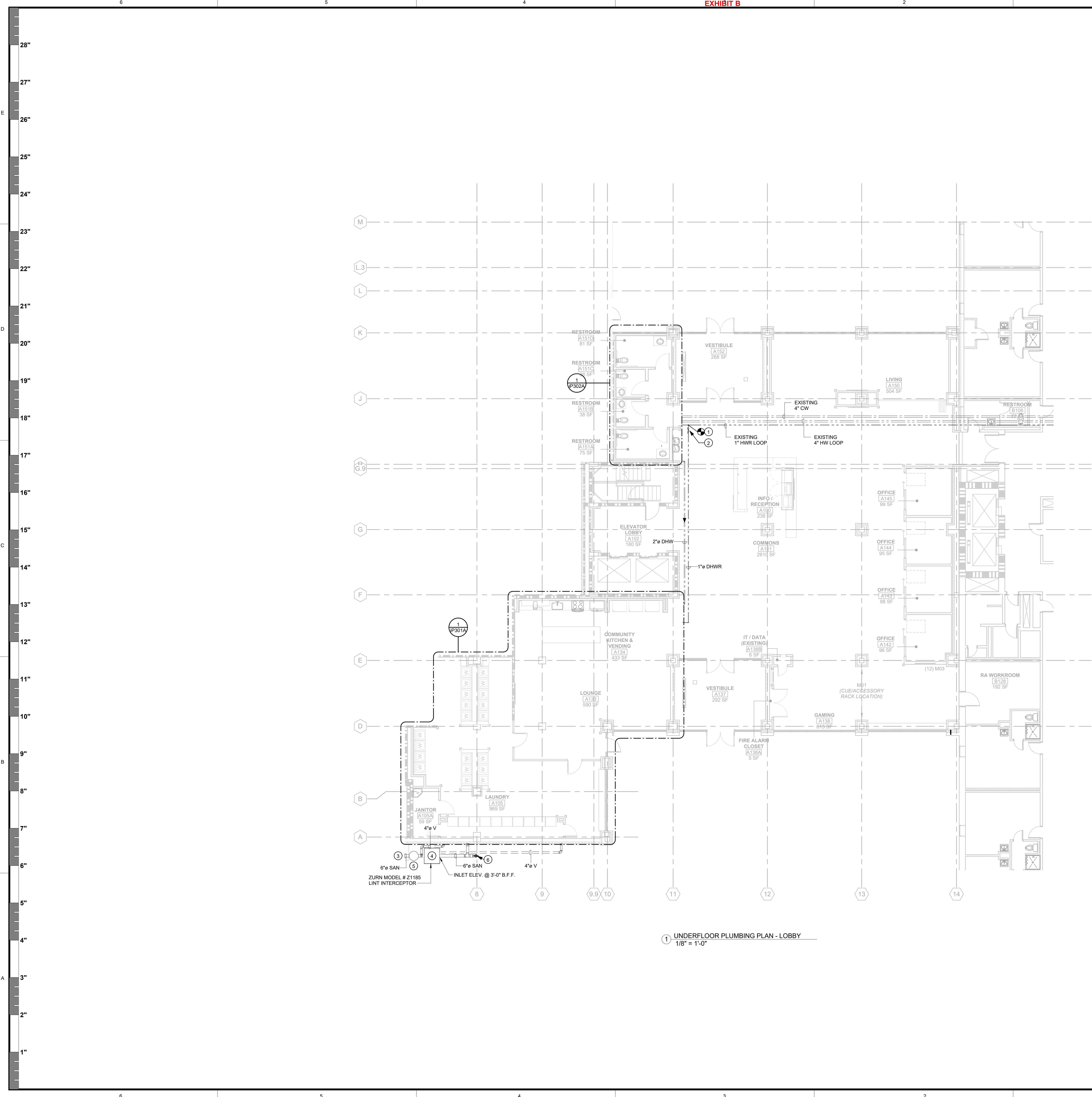
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**iP002**  
PLUMBING FIXTURE SCHEDULE

TreanorHL NO. HE0569.2302.01

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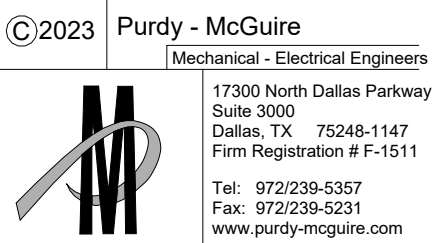
1 UNDERFLOOR PLUMBING PLAN - LOBBY  
1/8" = 1'-0"

**KEYED NOTES - SHEET IP2.00A**

1. CONNECT NEW 1" CIRCULATED HOT WATER RETURN TO EXISTING HOT WATER RETURN LOOP. CONTRACTOR TO FIELD VERIFY LOCATION, SIZE AND CONDITION OF EXISTING WATER PIPING PRIOR TO NEW INSTALLATION.
2. AUTOFLOW BALANCING VALVE ASSEMBLY WITH A FLOW RATE OF 1 GPM AND A MINIMUM OF 0.5 GPM FLOW. REFER TO DETAIL 6 ON SHEET IP502 FOR BALANCING VALVE INSTALLATION REQUIREMENTS.
3. EXTEND NEW 6" SANITARY (ELEVATION @ 5'-6" B.F.F.) TO EXISTING SANITARY MAIN ON SITE. CONTRACTOR TO FIELD VERIFY SIZE, LOCATION AND ELEVATION OF EXISTING SANITARY MAIN PRIOR TO NEW INSTALLATION.
4. LINT INTERCEPTOR SIZED FOR 20 WASHERS. REFER TO MANUFACTURER FOR INSTALLATION AND MAINTNANCE REQUIREMENTS.
5. SAMPLE WELL ON SANITARY DISCHARGE SERVING LINT INTERCEPTOR.
6. SANITARY UP TO GRADE FLOOR CLEANOUT (GCO).

**GENERAL PLUMBING NOTES:**

- A. INSTALL A POINT OF USE (ASSE 1070 COMPLIANT) THERMOSTATIC MIXING VALVE PRIOR TO CONNECTION TO HOT WATER FIXTURES.
- B. REFER TO SHEET IP0.01 FOR ADDITIONAL GENERAL PLUMBING NOTES.



THE JOB NO.  
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MECHANICAL  
ELECTRICAL  
PLUMBING  
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CHRIS WOODWARD  
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**D. SCOTT BROWN**  
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LICENSED PROFESSIONAL ENGINEER  
2-6-2024

**UNIVERSITY OF NORTH TEXAS**  
**KERR HALL INTERIOR RENOVATION**  
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**iP200A**

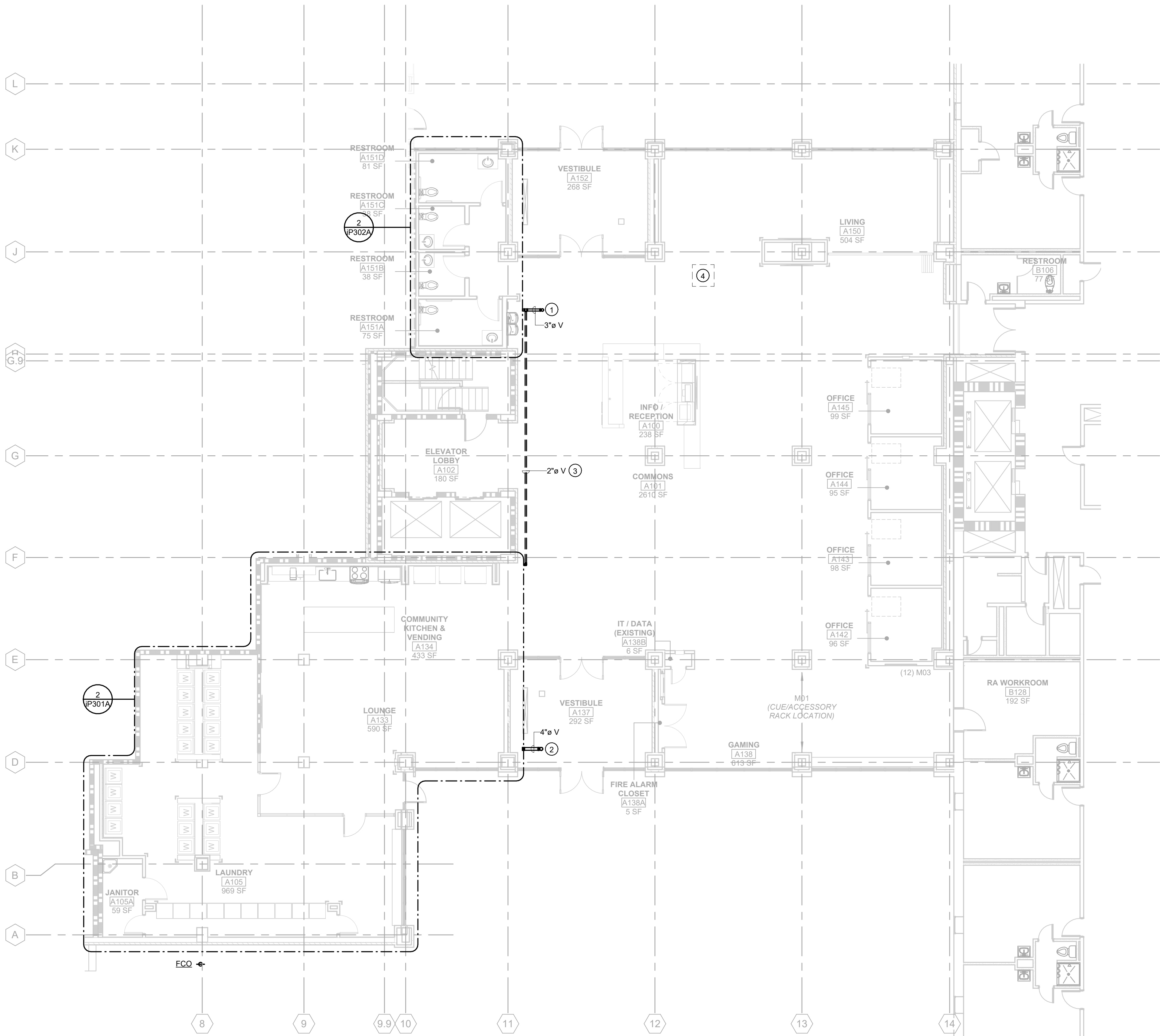
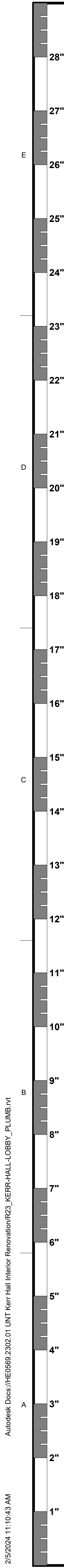
UNDERFLOOR PLUMBING  
PLAN (LOBBY,  
RESTROOMS, &  
LAUNDRY)

TreanorHL NO. HE0569-2302.01  
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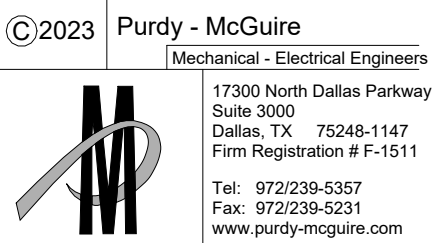
1 LEVEL 1 PLUMBING PLAN - LOBBY  
1/8" = 1'-0"

#### KEYED NOTES - SHEET IP2.01A

- 1 EXTEND 3" VENT UP THRU LOW ROOF (VTR). REFER TO DETAIL 11 ON SHEET IP501 FOR PIPING INSTALLATION REQUIREMENTS.
- 2 EXTEND 4" VENT UP THRU LOW ROOF (VTR). REFER TO DETAIL 11 ON SHEET IP501 FOR PIPING INSTALLATION REQUIREMENTS.
- 3 ROUTE VENT TIGHT TO EXISTING STRUCTURE. COORDINATE VENT PIPING WITH EXISTING STRUCTURE AND MECHANICAL DUCTWORK PRIOR TO INSTALLATION.
- 4 REMOVE EXISTING SINK/FAUCET AND ASSOCIATED PIPING. RETURN UNUSED FIXTURES TO BASE BUILDING STOCK. ALL PIPING NOT BEING RE-USED SHALL BE REMOVED TO INSIDE WALL AND CAPPED.

#### GENERAL PLUMBING NOTES:

- A. INSTALL A POINT OF USE (ASSE 1070 COMPLIANT) THERMOSTATIC MIXING VALVE PRIOR TO CONNECTION TO HOT WATER FIXTURES.
- B. REFER TO SHEET IP0.01 FOR ADDITIONAL GENERAL PLUMBING NOTES.



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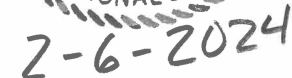


**KEYED NOTES - SHEET IP3.01A**

- 2 1" SANITARY UP TO SERVE WASHING MACHINE BOXES (WMB) ABOVE FLOOR.
- 3 2" SANITARY, 3/4" HOT WATER AND COLD WATER UP TO SERVE SINK AND ASSOCIATED BREAK ROOM
- 4 FIXTURES.
- 5 3" SANITARY UP TO MOP SINK (MS).
- 6 2" VENT UP.
- 7 1-1/2" CIRCULATED HOT WATER LOOP AND 1-1/4" COLD WATER UP TO SERVE WASHING MACHINE BOXES
- 8 (WMB) ABOVE FLOOR.
- 9 1-1/4" CIRCULATED HOT WATER LOOP UP TO SERVE WASHING MACHINE BOXES (WMB) ABOVE FLOOR.
- 10 1-1/2" CIRCULATED HOT WATER LOOP AND 1" COLD WATER UP TO SERVE WASHING MACHINE BOXES
- 11 (WMB) ABOVE FLOOR.
- 12 1-1/4" CIRCULATED HOT WATER LOOP UP TO SERVE WASHING MACHINE BOXES (WMB) ABOVE FLOOR.
- 13 1" CIRCULATED HOT WATER RETURN LOOP AND 1" COLD WATER UP TO SERVE WASHING MACHINE BOXES
- 14 (WMB) ABOVE FLOOR.
- 15 1-1/4" CIRCULATED HOT WATER LOOP UP TO SERVE MOP SINK (MS).
- 16 3/4" COLD WATER UP TO SERVE MOP SINK (MS).
- 17 1-1/2" COLD (500 MBH @ 7-14" W.C.) UP TO SERVE GAS DRYERS ABOVE FLOOR.
- 18 ROUTE NEW 1-1/2" GAS (500 MBH @ 7-14" W.C. AT APPROXIMATELY 100 FEET) TO EXISTING GAS MAIN
- 19 PIPING IN BASEMENT. CONTRACTOR TO FIELD VERIFY THE LOCATION, SIZE AND PRESURE OF EXISTING
- 20 GAS. PRIOR TO NEW INSTALLATION.
- 21 1-1/2" GAS UP FROM BELOW AND ROUTED TO GAS DRYERS AS SHOWN.
- 22 2" VENT DOWN FROM CEILING AND 2" SANITARY, 3/4" COLD AND HOT WATER UP FROM BELOW TO SERVE
- 23 BREAK ROOM SINK AND ASSOCIATED FIXTURES.
- 24 2" VENT UP TO SERVE BREAK ROOM PLUMBING RISER DIAGRAM.
- 25 PROVIDE COLD WATER WITH VALVE TO ASSE 1022 COMPLIANT BACKFLOW PREVENTER AND EXTEND 1/4"
- 26 COPPER TUBING UP THRU COUNTER TOP TO COFFEE MAKER. VERIFY WITH ARCHITECT EXACT LOCATION
- 27 OF COFFEE MAKER ON COUNTER.
- 28 PROVIDE COLD WATER WITH VALVE AND EXTEND 1/4" COPPER TUBING TO REFRIGERATOR/ICE MAKER.
- 29 EXTEND 3/4" GAS (25 MBH) TO EACH GAS QUICK DISCONNECT TO SERVE GAS DRYER. TYPICAL OF EACH GAS
- 30 DRYER CONNECTION. REFER TO DETAIL 8.0 ON SHEET IP5.02 FOR QUICK DISCONNECT PIPING INSTALLATION
- 31 REQUIRED.
- 32 4" VENT DOWN.
- 33 3" SANITARY FROM BELOW UP TO SERVE WASHING MACHINE BOXES (WMB).
- 34 2" VENT DOWN IN CHASE BETWEEN 2" SANITARY, 3/4" COLD AND HOT WATER UP FROM BELOW TO SERVE MOP
- 35 SINK (MS).
- 36 2" SANITARY, 2" VENT, 1/2" HOT AND COLD WATER TO SERVE WASHING MACHINE BOX (WMB). WATER
- 37 HAMMER ARRESTORS WITH BALL VALVES TO BE INSTALLED ON EACH WATER RISER SERVING THE
- 38 WASHING MACHINE BOXES (WMB).
- 39 4" VENT UP.
- 40 1-1/2" CIRCULATED HOT WATER LOOP AND 1" COLD WATER FROM BELOW, TO SERVE WASHING MACHINE
- 41 BOXES (WMB).
- 42 1" CIRCULATED HOT WATER LOOP AND 1" COLD WATER FROM BELOW, TO SERVE WASHING MACHINE
- 43 BOXES (WMB).
- 44 1-1/2" CIRCULATED HOT WATER LOOP FROM BELOW, TO SERVE WASHING MACHINE BOXES (WMB).
- 45 2" HUB DRAIN TO SERVED DRAIN LINES FROM BREAK ROOM FIXTURES AND DESIGNATED MECHANICAL
- 46 EQUIPMENT. CONTRACTOR TO REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT
- 47 LOCATION AND ASSOCIATED NOTES.
- 48 INSTALL GAS PLUG SHUT-OFF VALVE PRIOR TO CONNECTION TO EACH DRYER.
- 49 EMERGENCY GAS SHUT-OFF VALVE ON MAIN GAS PIPING PRIOR TO GAS CONNECTION TO DRYERS
- 50 REFER TO IP5.02 FOR LAUNDRY ROOM PLUMBING RISER DIAGRAM.
- 51 2" CIRCULATED HOT WATER LOOP AND 1-1/4" COLD WATER FROM BELOW, TO SERVE WASHING MACHINE
- 52 BOXES (WMB).
- 53 2" VENT DOWN.
- 54 3" VENT DOWN IN CHASE BETWEEN CULMIN.
- 55 EXTEND 2" VENT DOWN IN HALF WALL.
- 56 3" SANITARY UP TO FLOOR DRAIN (FD).

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<b>Date:</b>	FEBRUARY 6, 2025

## REVISIONS

PLUMBING ENLARGED  
PLAN (LOBBY,  
RESTROOMS, &  
LAUNDRY)

TreanorHL NO. HE0569.2302.0

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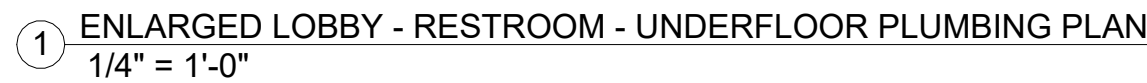
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PM JOB NO. 29037.003  
PROJECT MGR. SCOTT BROWN, KRISTIN BUR  
MECHANICAL MITCHELL HENTON  
PLUMBING CHRIS WOODYARD  
ELECTRICAL KYLE ROURKE  
THIS DRAWING SHALL NOT BE REPRODUCED  
FOR ANY PROJECT OTHER THAN THE PROJECT  
NOTED IN THE TITLE BLOCK, WITHOUT THE  
WRITTEN CONSENT OF PURDY-MCGUIRE, INC.  
DALLAS, TX

PMI JOB NO.	23037.003
PROJECT MGR.	SCOTT BROWN, KRISTIN BURKE
MECHANICAL	MITCHELL HENTON
PLUMBING	CHRIS WOODYARD
ELECTRICAL	KYLE ROURKE
THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX	





1. CONNECT NEW 2" CIRCULATED HOT WATER TO EXISTING HOT WATER LOOP. CONTRACTOR TO FIELD VERIFY LOCATION, SIZE AND CONDITION OF EXISTING HOT WATER PIPING PRIOR TO NEW INSTALLATION.
2. 2" CIRCULATED HOT WATER LOOP UP TO SERVICE LAVATORIES.
3. 2" COLD WATER UP TO SERVICE RESTROOM FIXTURES.
4. 1/2" COLD WATER UP TO SERVICE LAVATORY.
5. 4" SANITARY UP TO FLOOR MOUNTED WATER CLOSET.
6. 3" SANITARY UP TO FLOOR DRAIN (FD).
7. 2" VENT UP.
8. 2" SANITARY UP TO SERVICE LAVATORY.
9. 2" SANITARY UP TO SERVICE ELECTRIC WATER COOLER (EWC).
10. 1/2" COLD WATER UP TO SERVICE ELECTRIC WATER COOLER (EWC).
11. 2" CIRCULATED HOT WATER LOOP FROM BELOW, TO SERVICE LAVATORY.
12. 2" COLD WATER FROM BELOW, UP TO ACCESSIBLE SHUT-OFF VALVE AND EXTEND TO SERVICE RESTROOM FIXTURES.
13. 1/2" COLD WATER FROM BELOW, TO SERVICE ELECTRIC WATER COOLER (EWC).
14. 2" SANITARY, 2" VENT, 1/2" HOT AND COLD WATER TO SERVICE LAVATORY.
15. 2" VENT DOWN.
16. 3" VENT DOWN.
17. 1/2" COLD WATER FROM BELOW, TO SERVICE LAVATORY (L.A).
18. REFER TO SHEET IP4.01 FOR RESTROOM PLUMBING RISER DIAGRAMS.

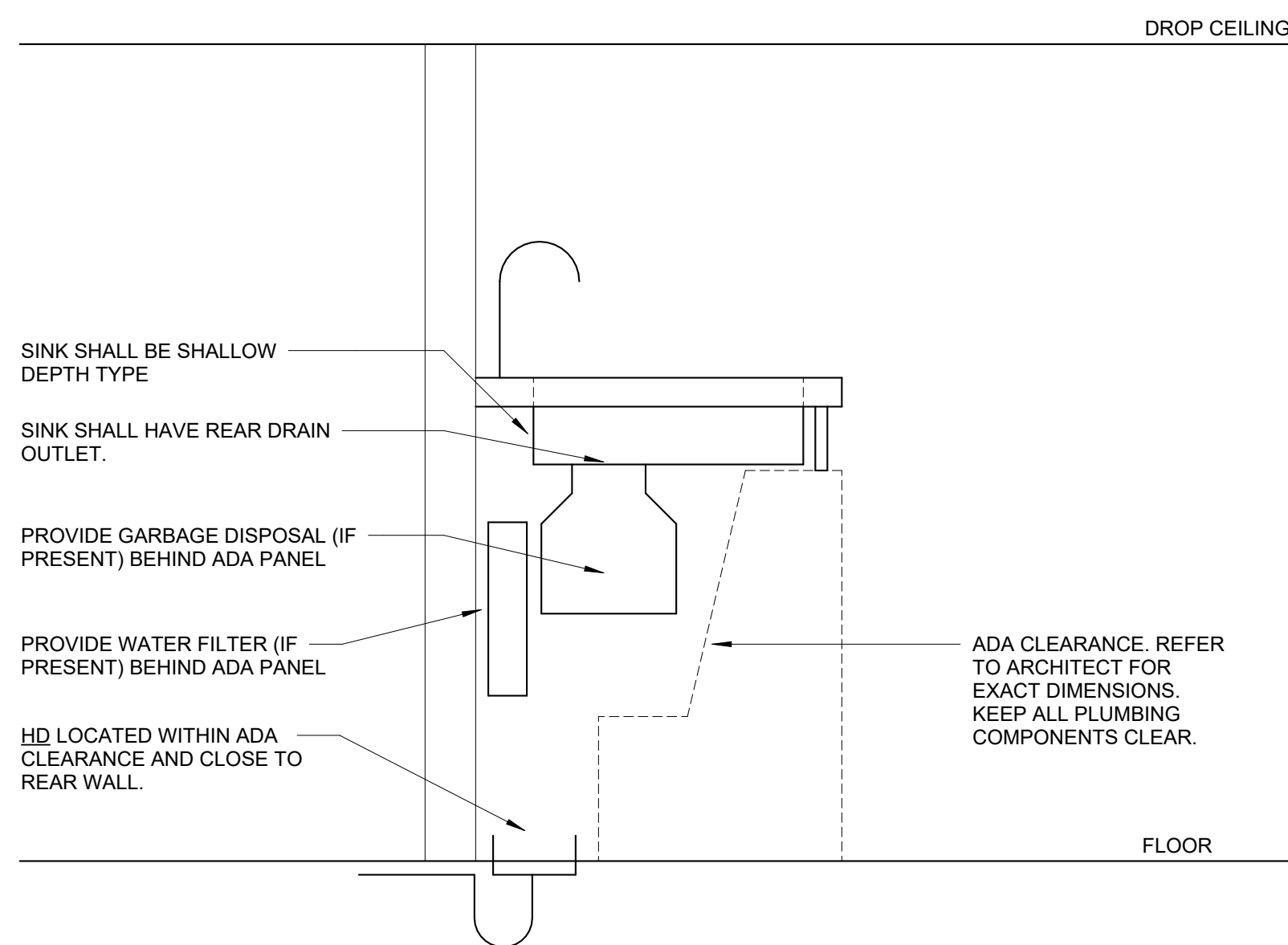
A. INSTALL A POINT OF USE (ASSE 1070 COMPLIANT) THERMOSTATIC MIXING VALVE PRIOR TO CONNECTION TO HOT WATER FIXTURES.

B. REFER TO SHEET IP0.01 FOR ADDITIONAL GENERAL PLUMBING NOTES.

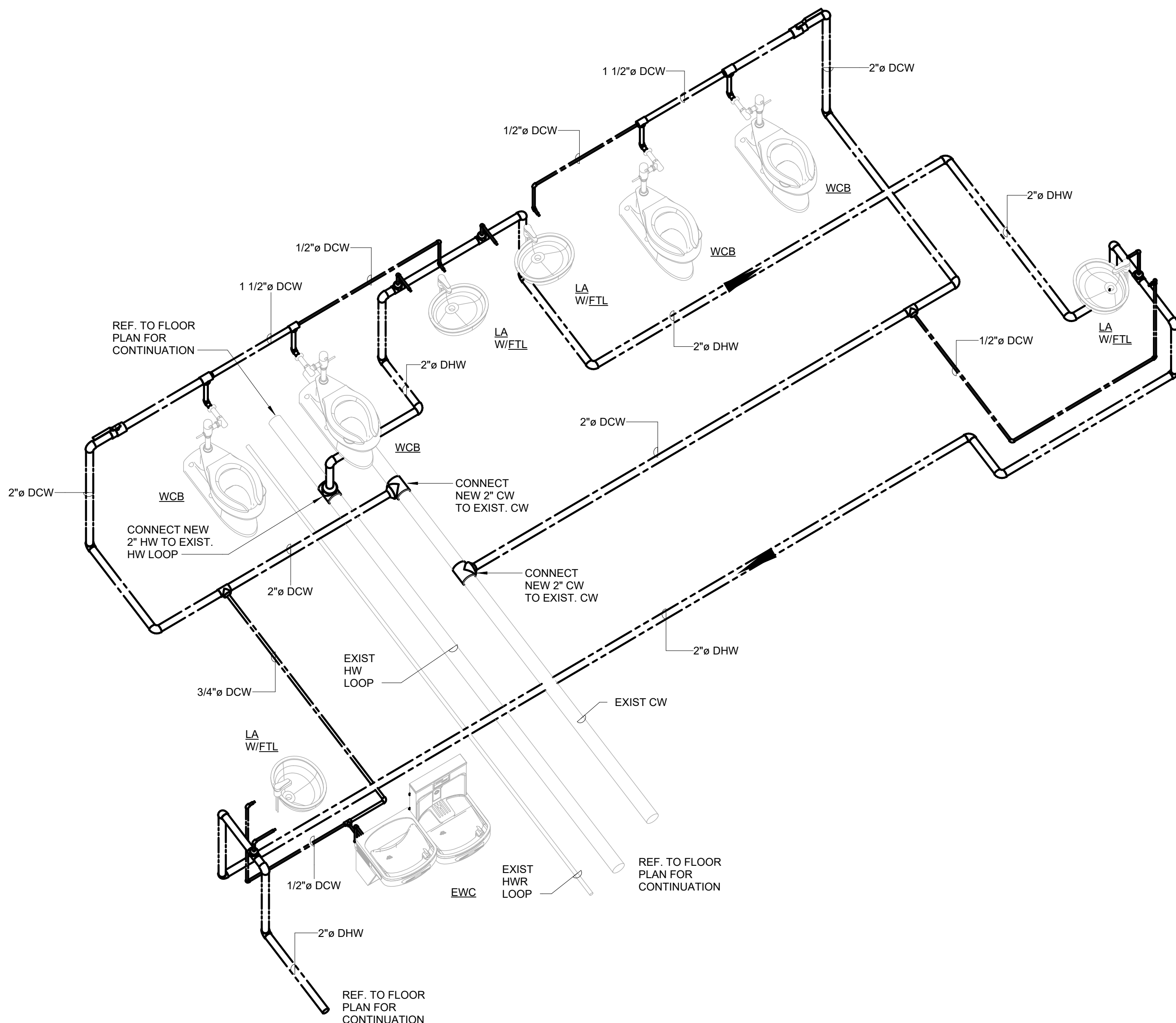
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PMI JOB NO. 23037.003  
PROJECT MGR. SCOTT BROWN, KRISTIN BROWN  
MECHANICAL MITCHELL HENTON  
PLUMBING CHRIS WOODYARD  
ELECTRICAL KYLE ROURKE  
THIS DRAWING SHALL NOT BE REPRODUCED  
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DALLAS, TX





- 1 NOT ALL P-TRAPS MAY BE SHOWN IN THE RISER DIAGRAMS, HOWEVER THE PLUMBING CONTRACTOR SHALL PROVIDE P-TRAPS FOR ALL FLOOR DRAINS, FLOOR SINKS, LAVATORIES, SINKS, MOP SINKS, ETC.
- 2 REFER TO PLUMBING ROUGH-IN SCHEDULE ON THIS SHEET AND/OR ON THE PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL SIZES TO FIXTURES, ONLY BRANCH SIZES ARE SHOWN ON THE PLANS AND RISERS.



3 LOBBY RESTROOMS - WATER PIPING PLUMBING RISER

# TREANORHL

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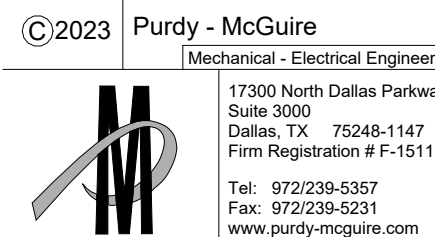
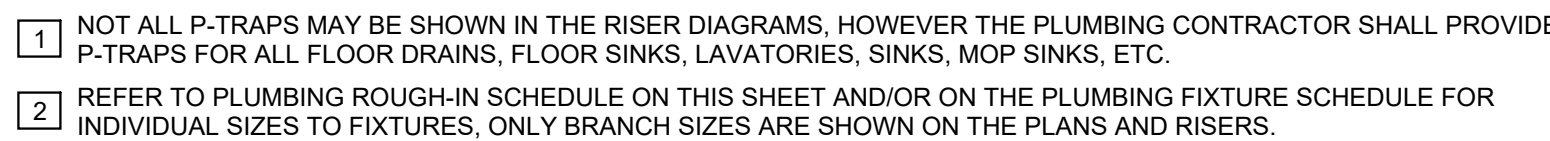
LOBBY, RESTROOMS, &  
LAUNDRY - PLUMBING  
RISERS

TreanorHL NO. HE0569.2302.0

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PMI JOB NO.	23037.003
PROJECT MGR.	SCOTT BROWN, KRISTIN BU
MECHANICAL	MITCHELL HENTON
PLUMBING	CHRIS WOODYARD
ELECTRICAL	KYLE ROURKE
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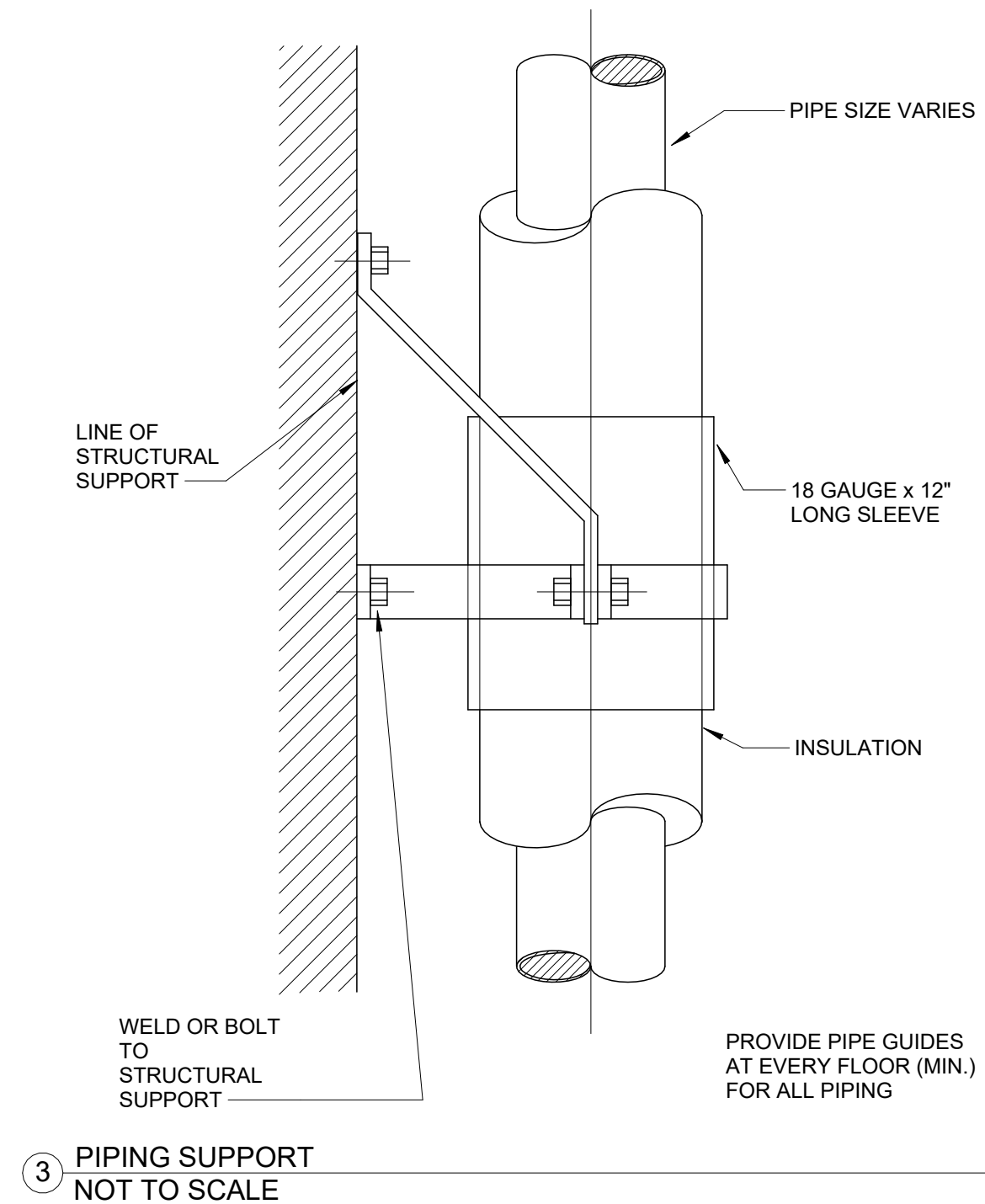
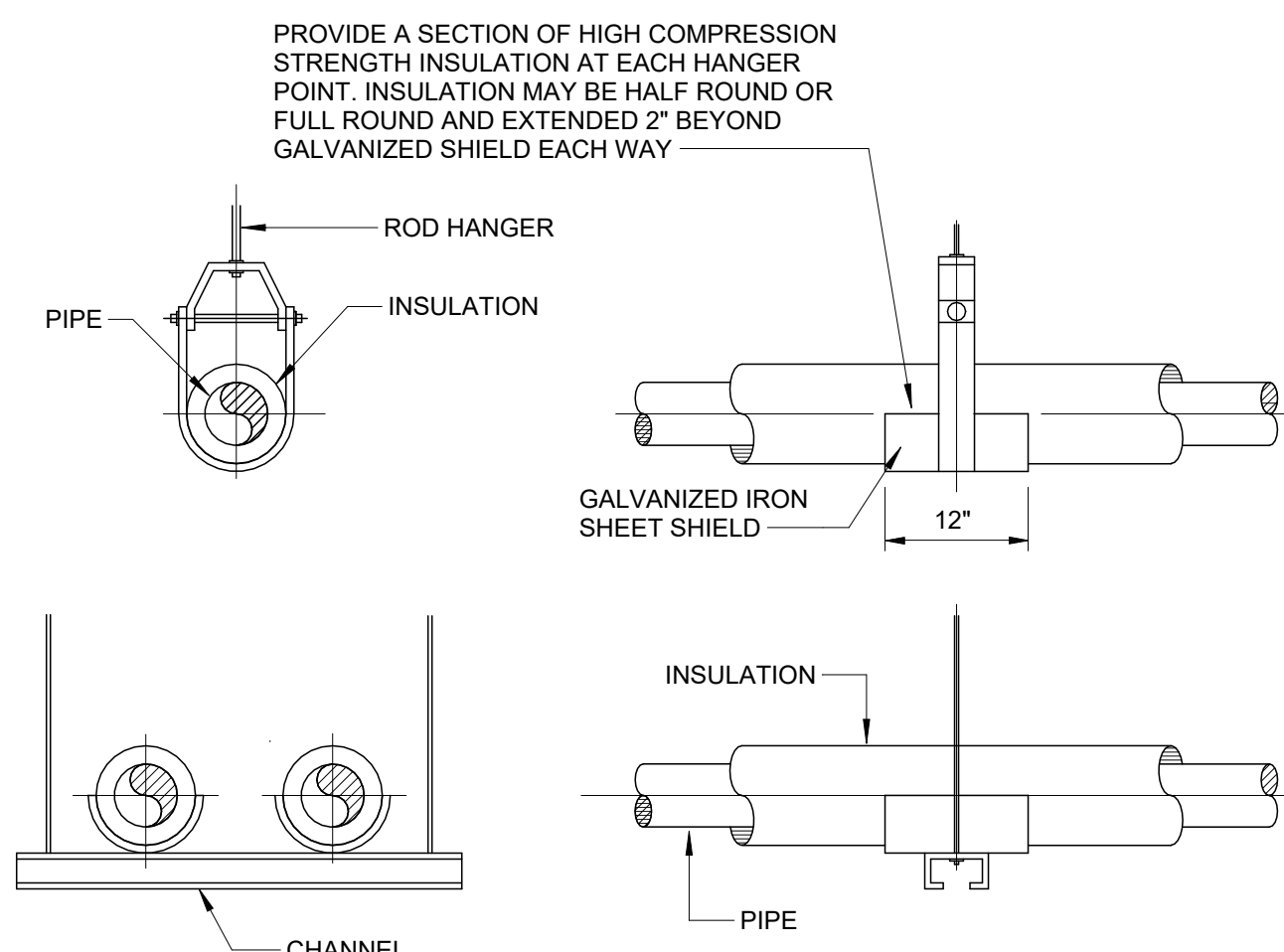


PMI JOB NO. 23037.003  
PROJECT MGR. SCOTT BROWN, KRISTIN BURKE  
MECHANICAL MITCHELL HENTON  
PLUMBING CHRIS WOODYARD  
ELECTRICAL KYLE ROURKE  
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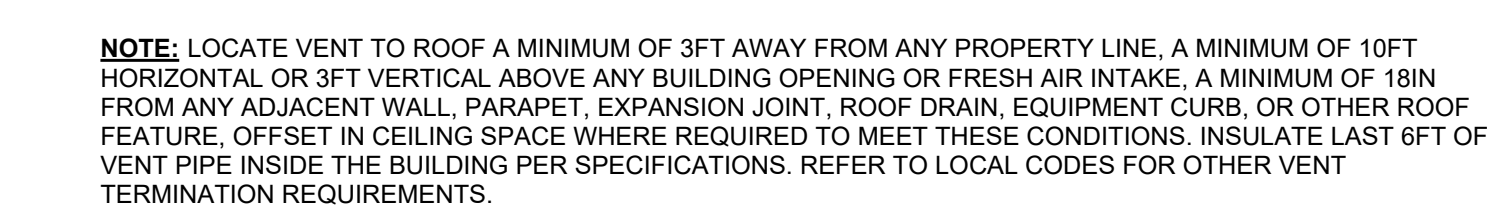
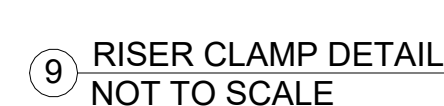
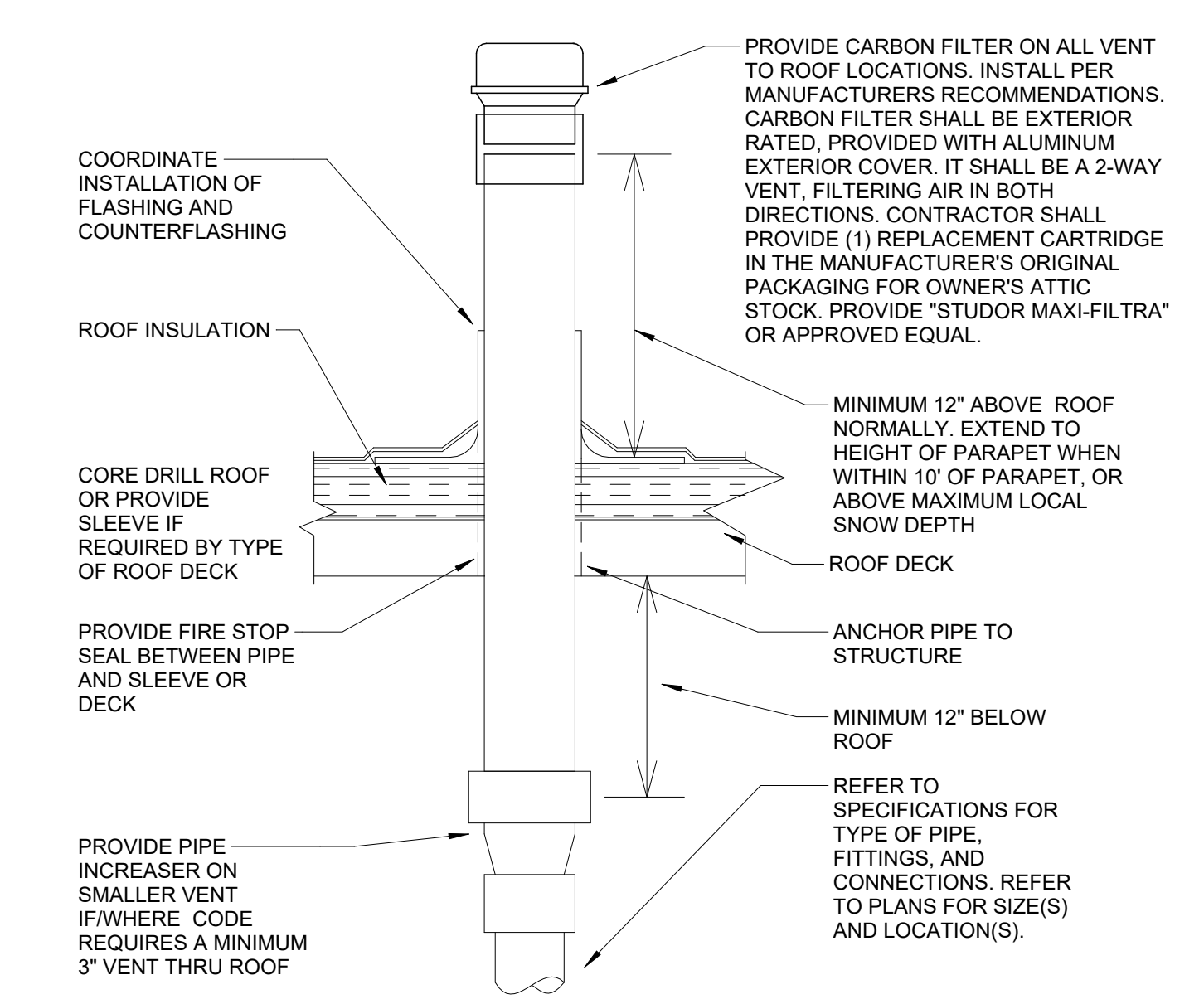
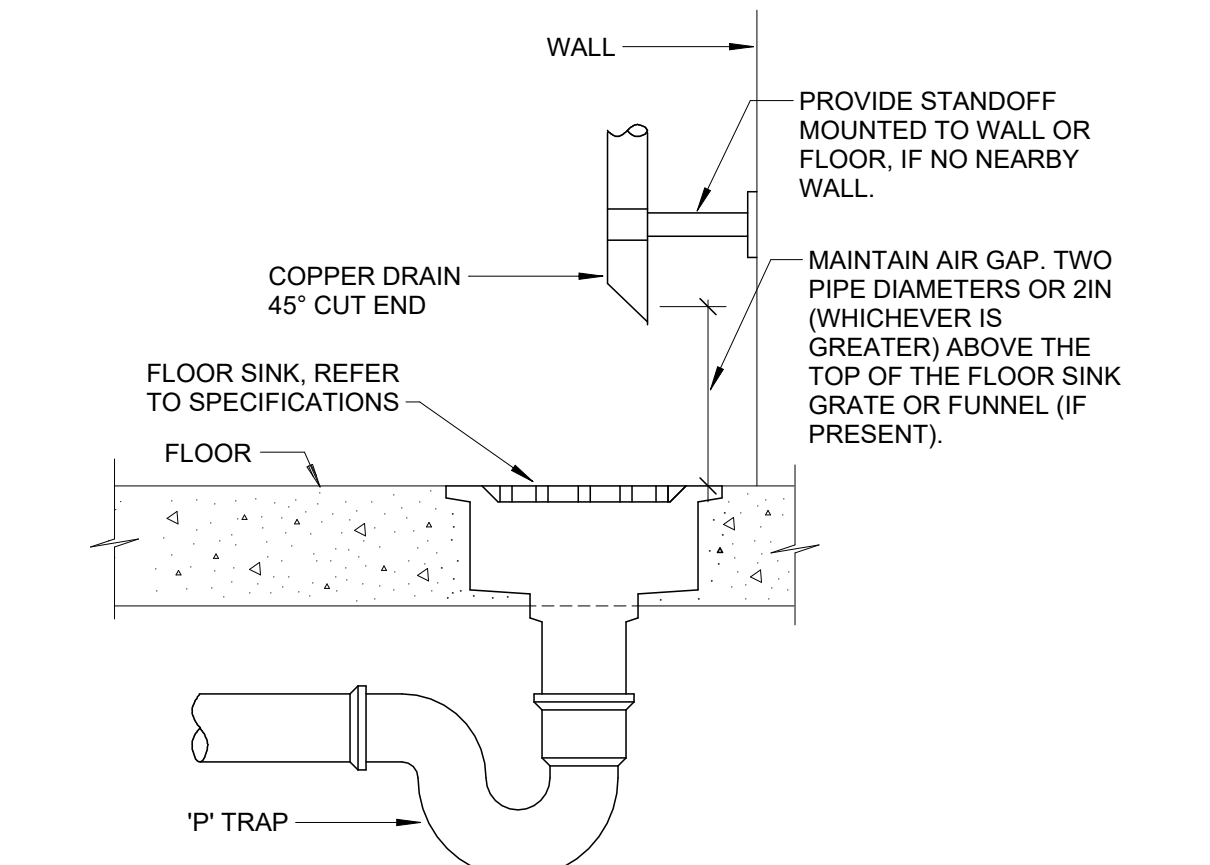
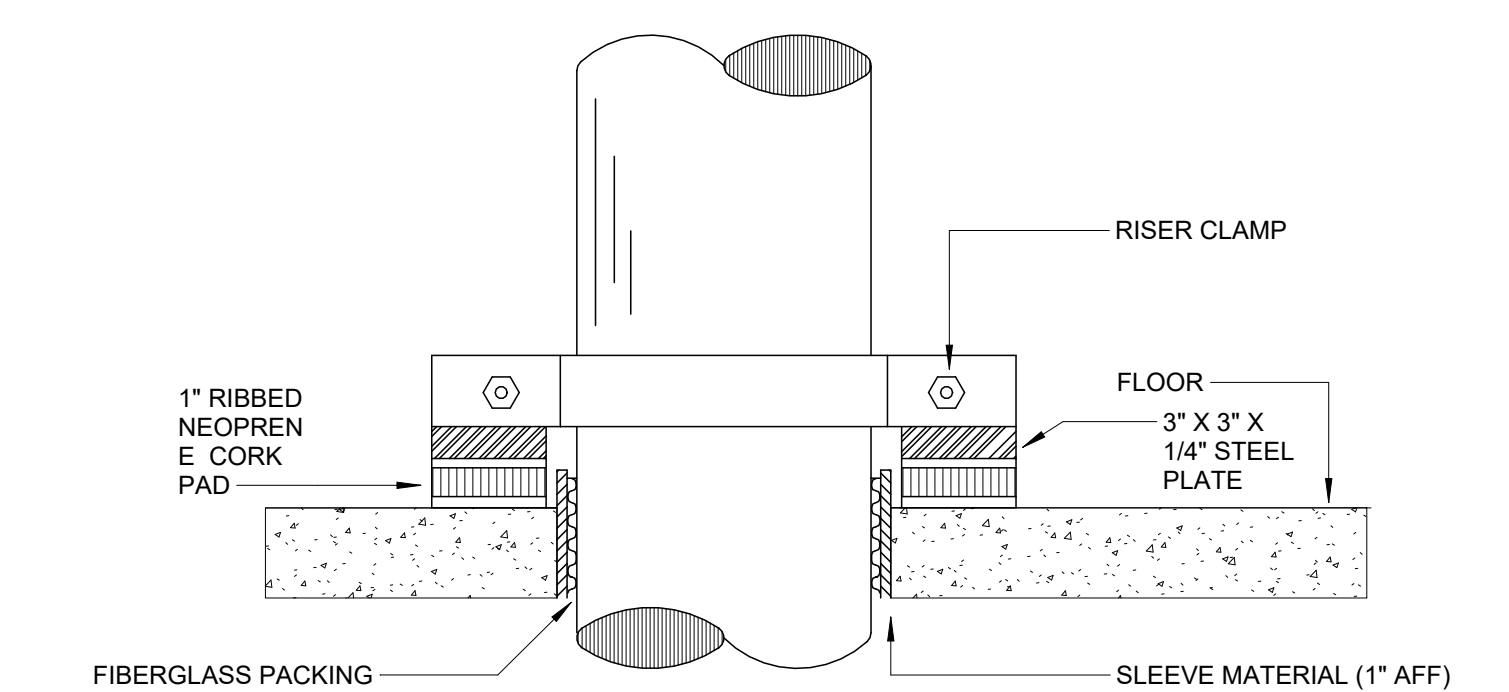
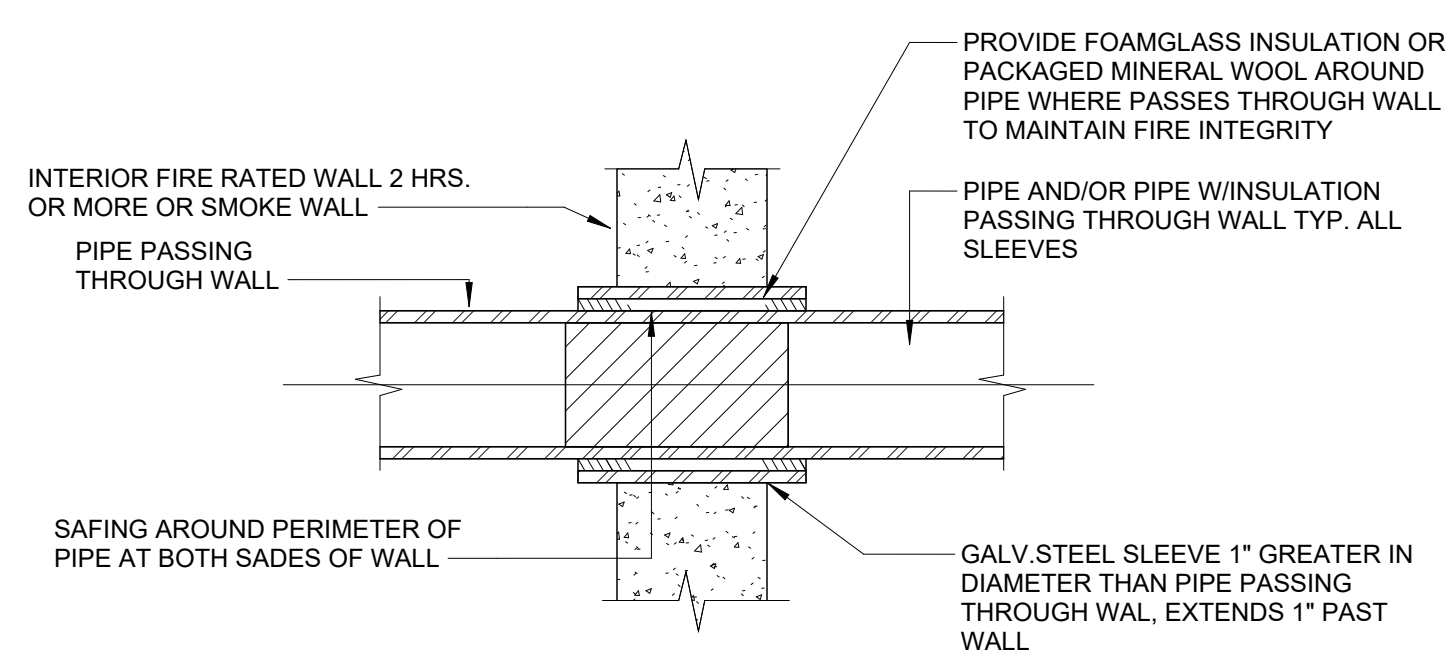
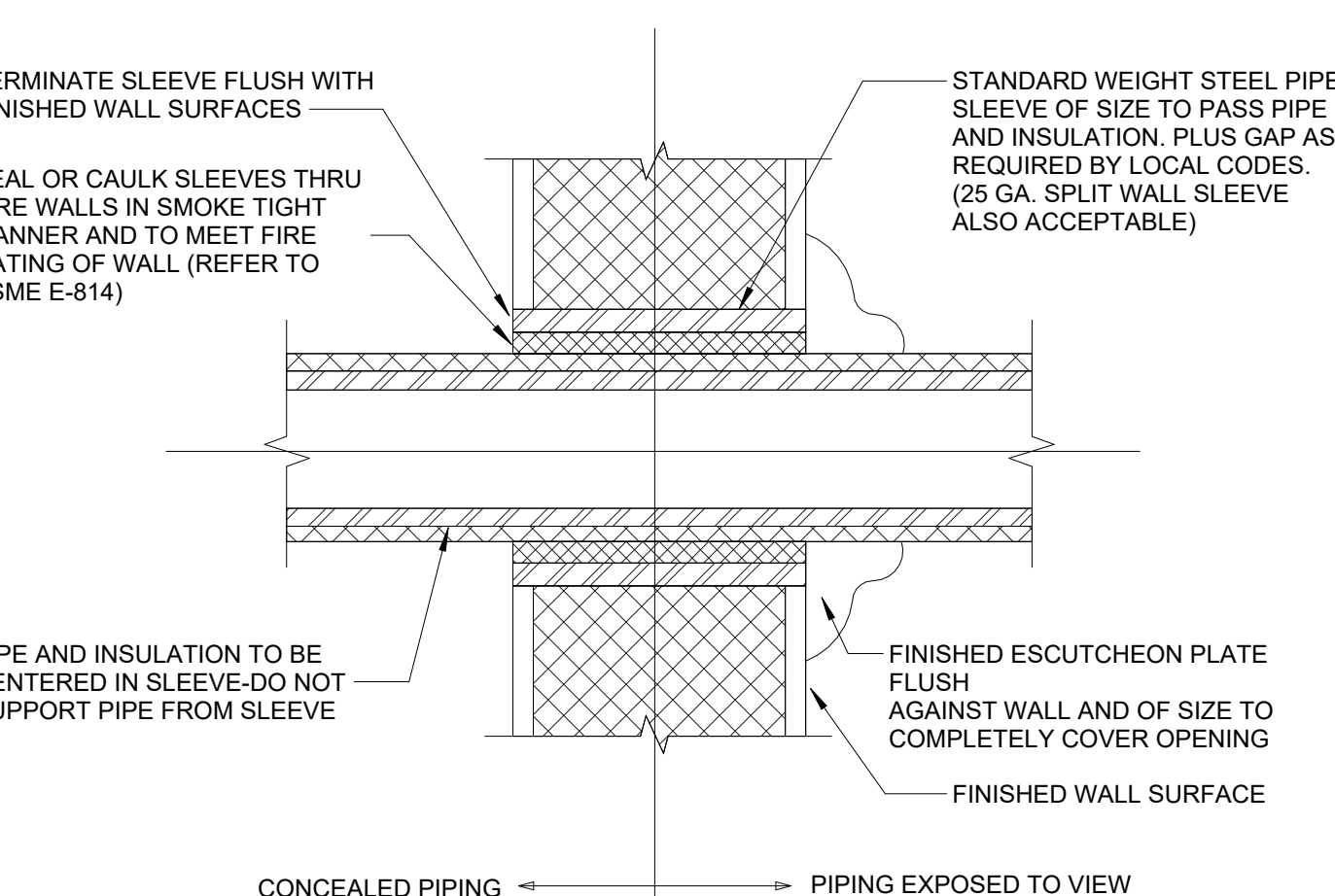
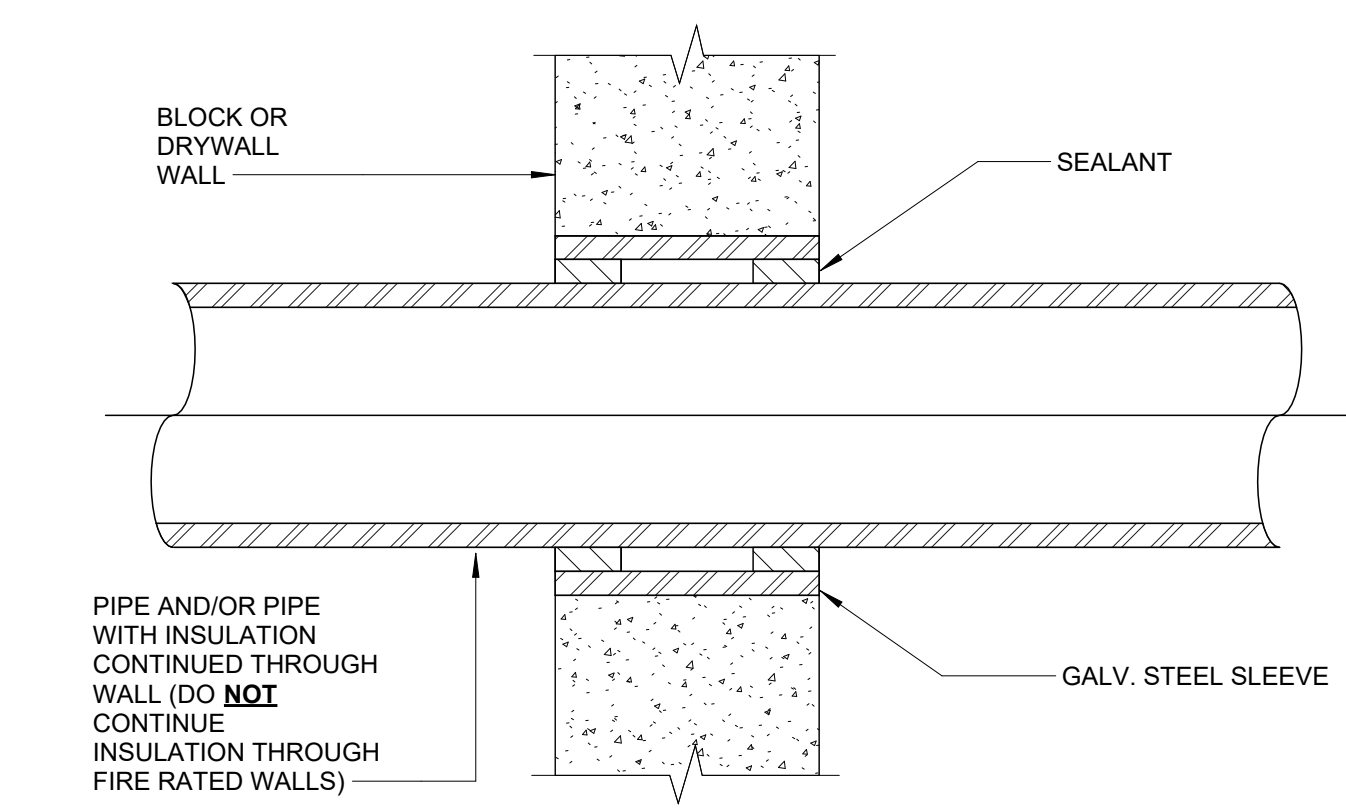
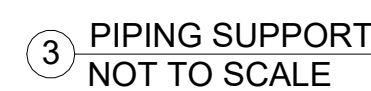
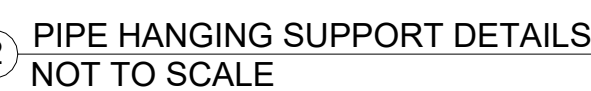
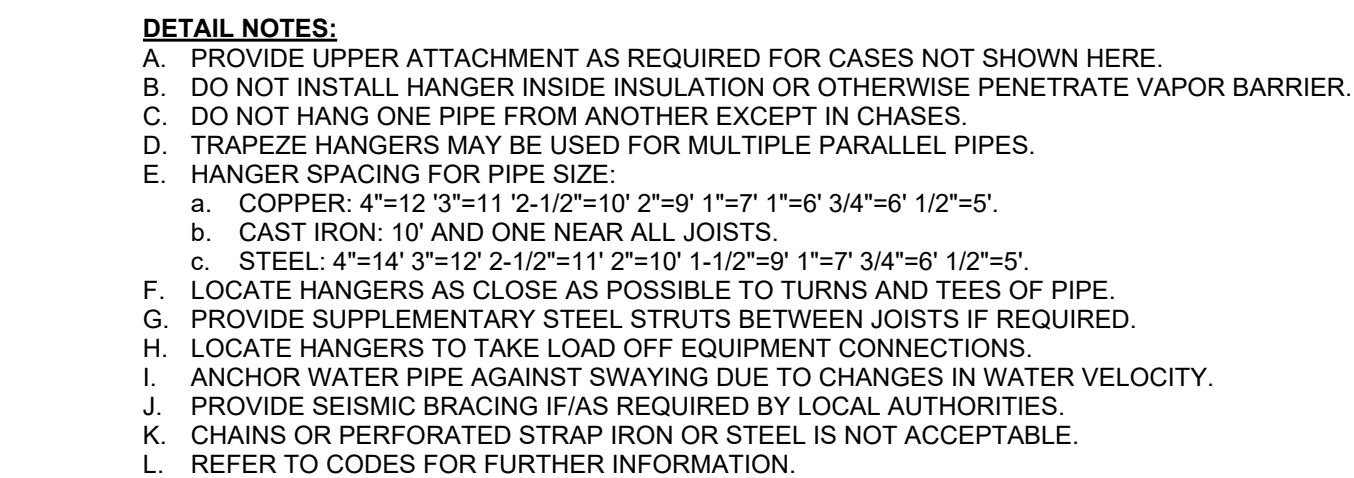
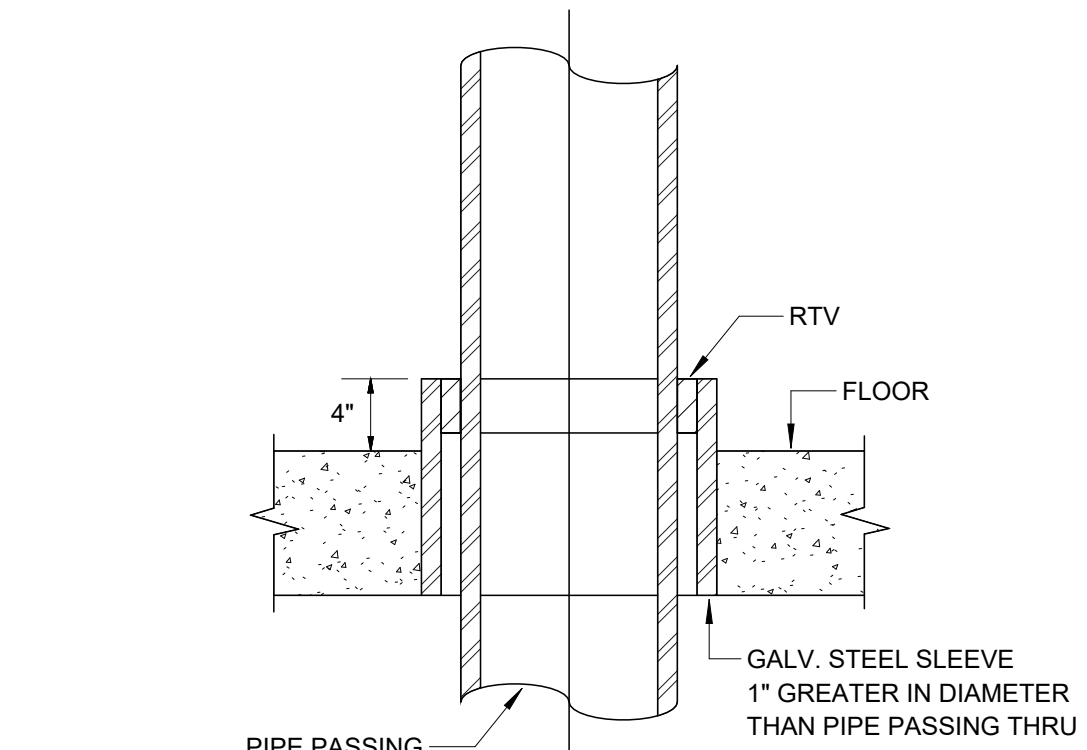
61 of 80




The diagram illustrates a single fixture, labeled 'SINGLE FIXTURE', which is connected to a vertical pipe. The pipe has a 'PDI SIZE' of 'A"'. The fixture is represented by a small rectangle with a vertical line extending from it, and a horizontal line connecting it to the main vertical pipe. Below the diagram is a table titled 'FIXTURE UNIT TABULATION'.

PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD	FIXTURE UNIT TABULATION		
			FIXTURE	COLD	HOT
A	1/2"	1-11	VALVE WATER CLOSET	10	--
B	3/4"	12-32	TANK WATER CLOSET	5	--
C	1"	33-60	URINAL	5	--
D	1-1/4"	61-113	LAVATORY/SINK	1.5	1.5
E	1-1/2"	114-154	JANITOR SINK	3	3
F	2"	154-330	SHOWER/BATHTUB	2	2

PC TO PROVIDE WATER HAMMER ARRESTORS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.



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Mechanical - Electrical Engineers



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PROJECT MGR. SCOTT BROWN, KRISTIN BURKE  
MECHANICAL MITCHELL HENTON  
PLUMBING CHRIS WOODYARD  
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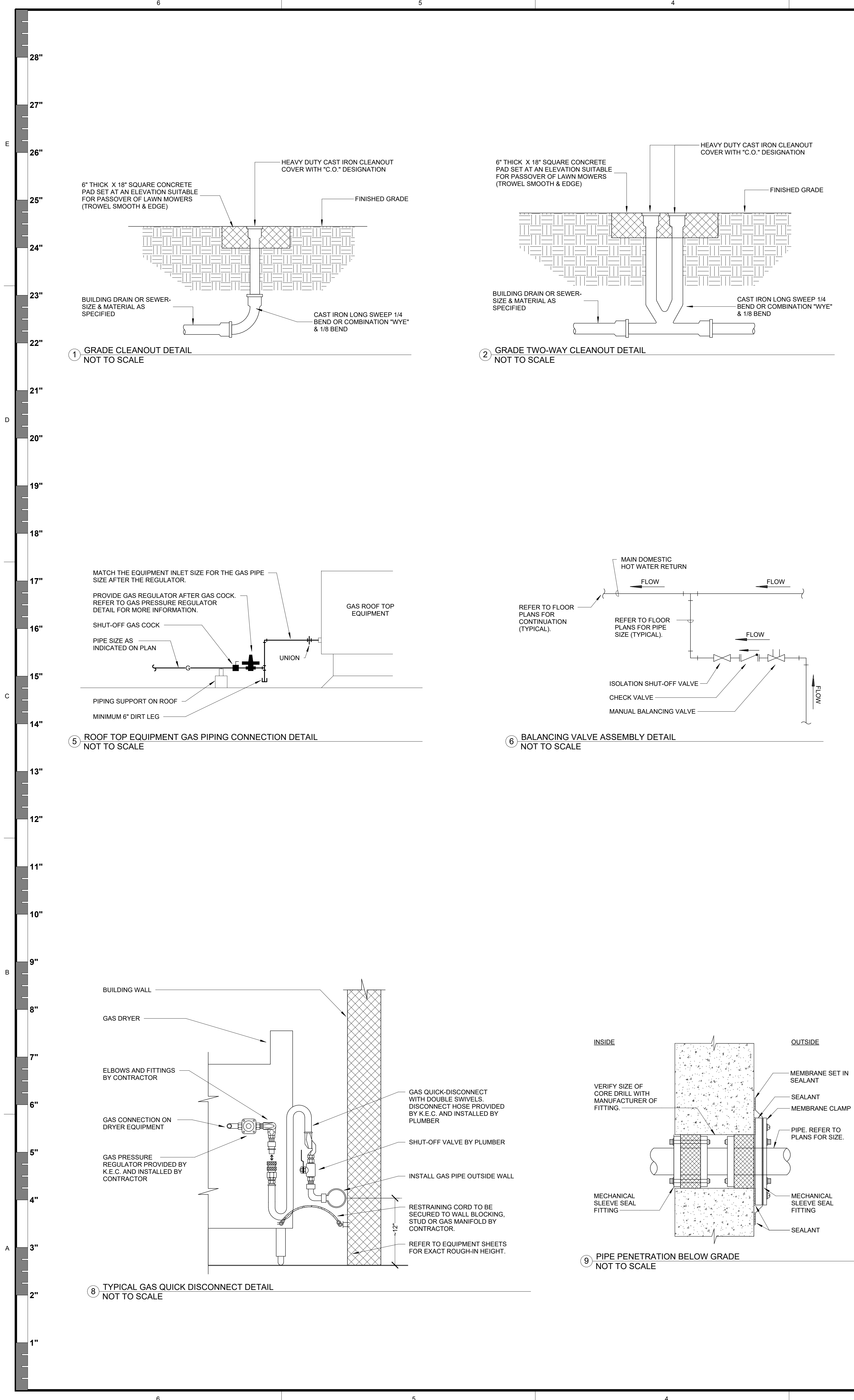
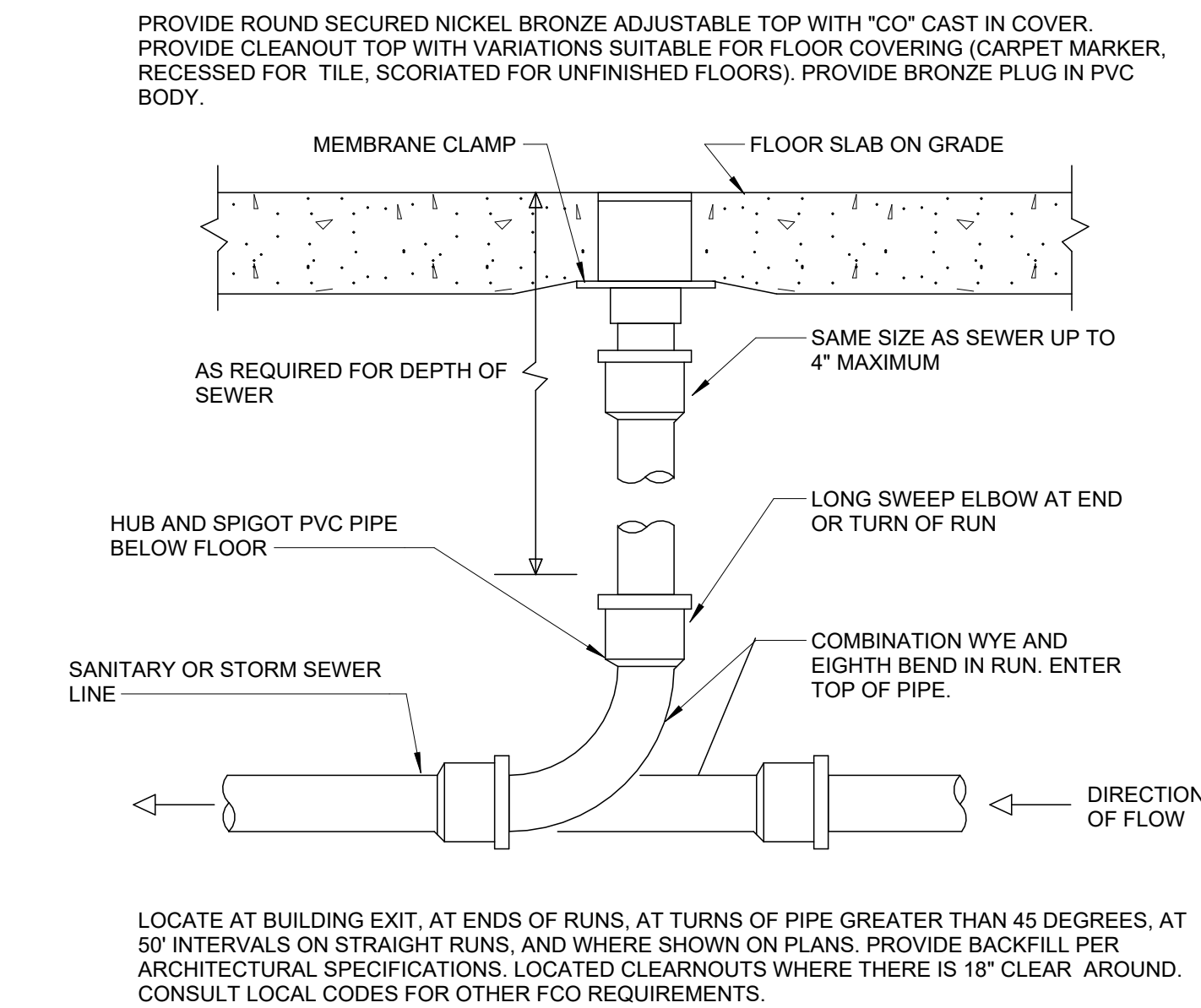
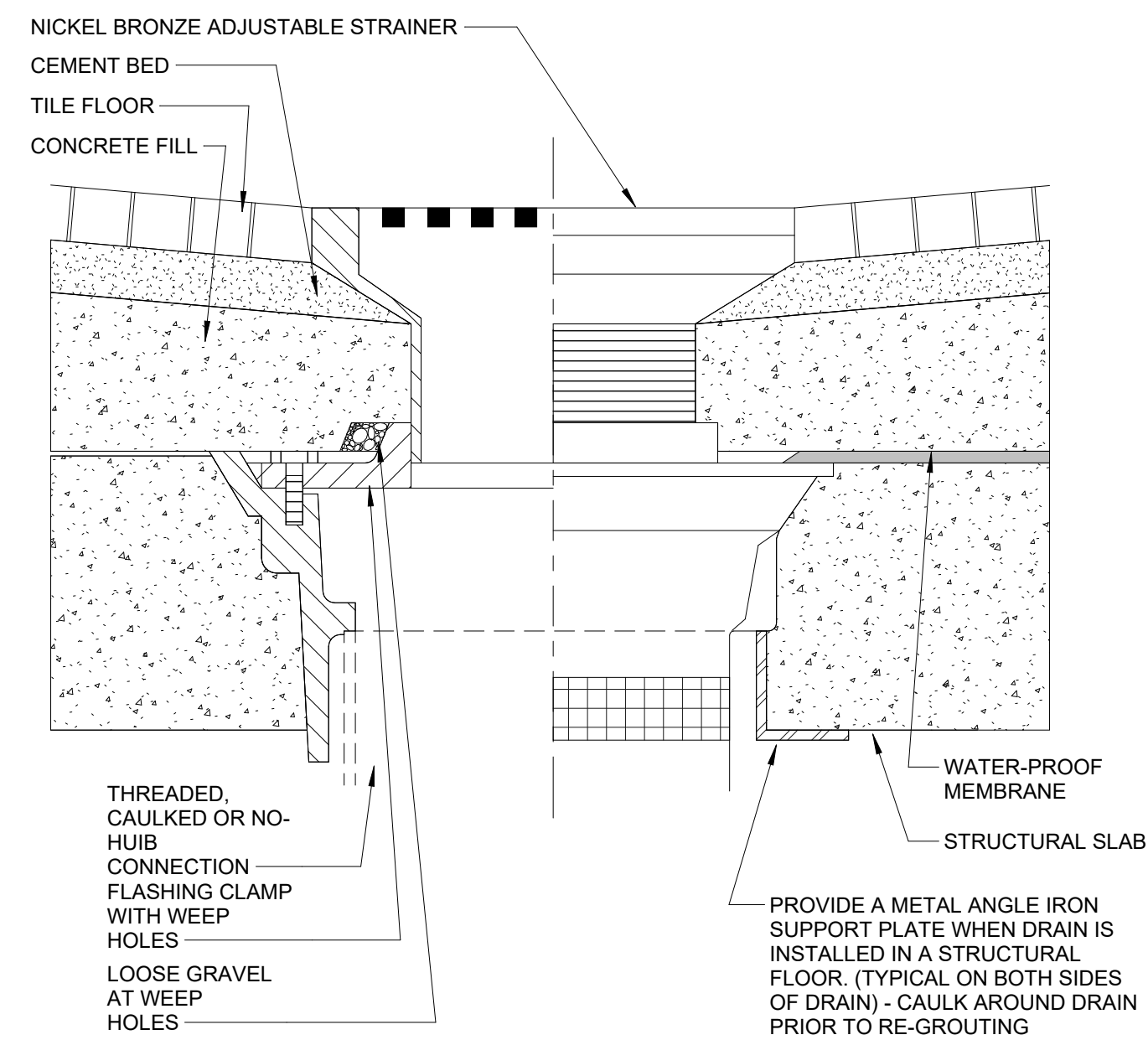


EXHIBIT B



3 FLOOR CLEANOUT DETAIL  
NOT TO SCALE

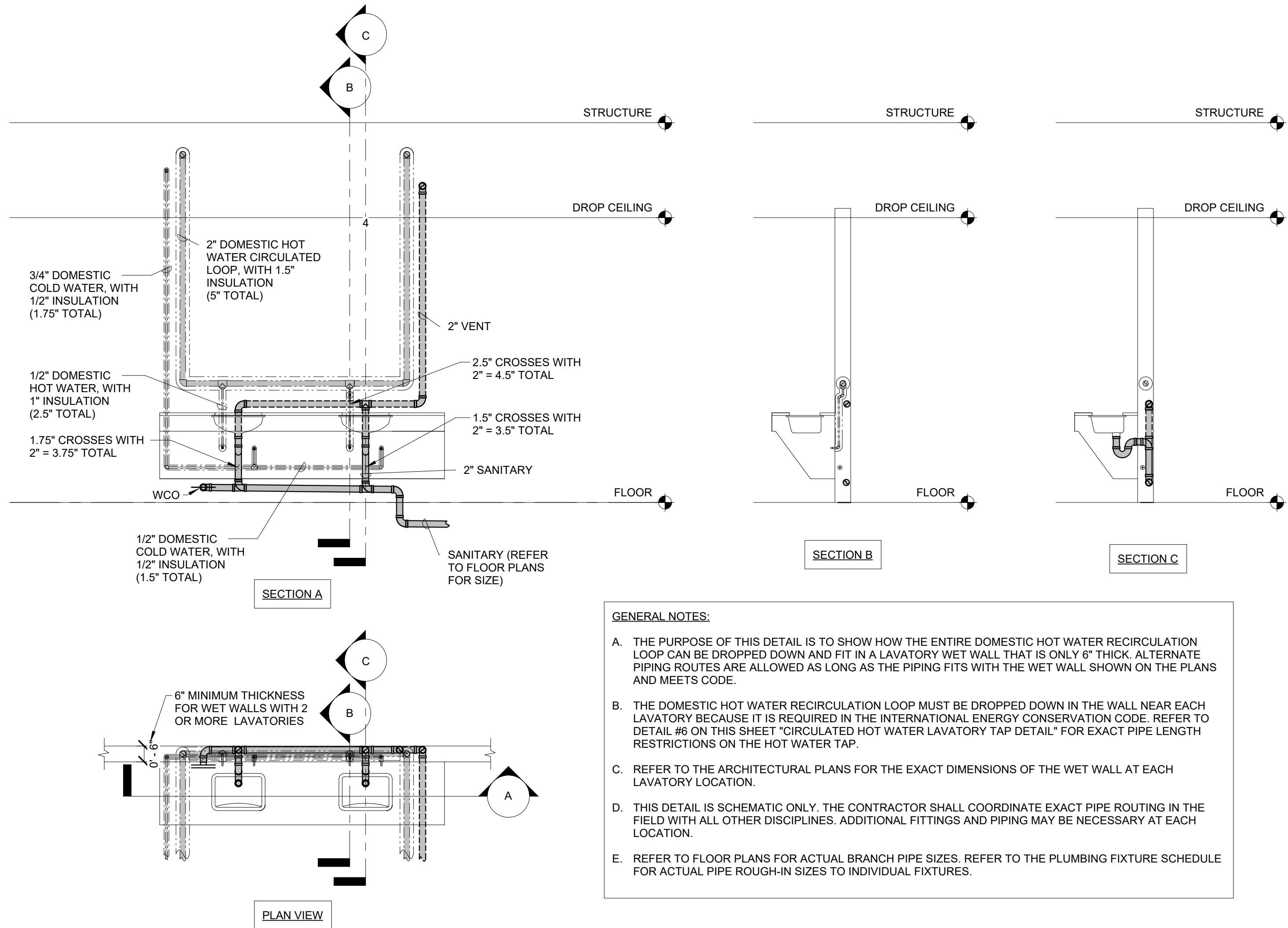


4 FLOOR DRAIN/SINK SUPPORT DETAIL  
NOT TO SCALE

IECC 2015/2018, TABLE C404.5.1 PIPING VOLUME AND MAXIMUM PIPING LENGTHS			
NOMINAL PIPE SIZE (inches)	VOLUME (liquid ounces per foot length)	MAXIMUM PIPING LENGTH (feet)	
		Public Lavatory Faucets	Other Fixtures and Appliances
1/4	0.33	6	50
5/16	0.5	4	50
3/8	0.75	3	50
1/2	1.5	2	43
5/8	2	1	32
3/4	3	0.5	21
7/8	4	0.5	16
1	5	0.5	13
1-1/4	8	0.5	8
1-1/2	11	0.5	6
2 or larger	18	0.5	4

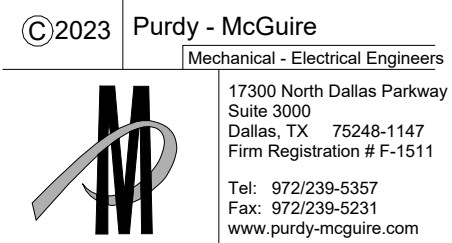
For SI: 1 inch = 25.4mm, 1 foot = 304.8mm, 1 liquid ounce = 0.0303, 1 gallon = 128 ounces.

7 CIRCULATED HOT WATER LAVATORY TAP DETAIL  
NOT TO SCALE



GENERAL NOTES:

- THE PURPOSE OF THIS DETAIL IS TO SHOW HOW THE ENTIRE DOMESTIC HOT WATER RECIRCULATION LOOP CAN BE DROPPED DOWN AND FIT IN A LAVATORY WET WALL THAT IS ONLY 6" THICK. ALTERNATE PIPING ROUTES ARE ALLOWED AS LONG AS THE PIPING FITS WITH THE WET WALL SHOWN ON THE PLANS AND MEETS CODE.
- THE DOMESTIC HOT WATER RECIRCULATION LOOP MUST BE DROPPED DOWN IN THE WALL NEAR EACH LAVATORY BECAUSE IT IS REQUIRED IN THE INTERNATIONAL ENERGY CONSERVATION CODE. REFER TO DETAIL #6 ON THIS SHEET "CIRCULATED HOT WATER LAVATORY TAP DETAIL" FOR EXACT PIPE LENGTH RESTRICTIONS ON THE HOT WATER TAP.
- REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT DIMENSIONS OF THE WET WALL AT EACH LAVATORY LOCATION.
- THIS DETAIL IS SCHEMATIC ONLY. THE CONTRACTOR SHALL COORDINATE EXACT PIPE ROUTING IN THE FIELD WITH ALL OTHER DISCIPLINES. ADDITIONAL FITTINGS AND PIPING MAY BE NECESSARY AT EACH LOCATION.
- REFER TO FLOOR PLANS FOR ACTUAL BRANCH PIPE SIZES. REFER TO THE PLUMBING FIXTURE SCHEDULE FOR ACTUAL PIPE ROUGH-IN SIZES TO INDIVIDUAL FIXTURES.



2307 2301  
SCOTT BROWN, KRISTIN BURKE  
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PLUMBING  
ELECTRICAL  
KYLE HOUDE  
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D. SCOTT BROWN  
89097  
Professional Engineer  
2-6-2024

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PLUMBING DETAILS

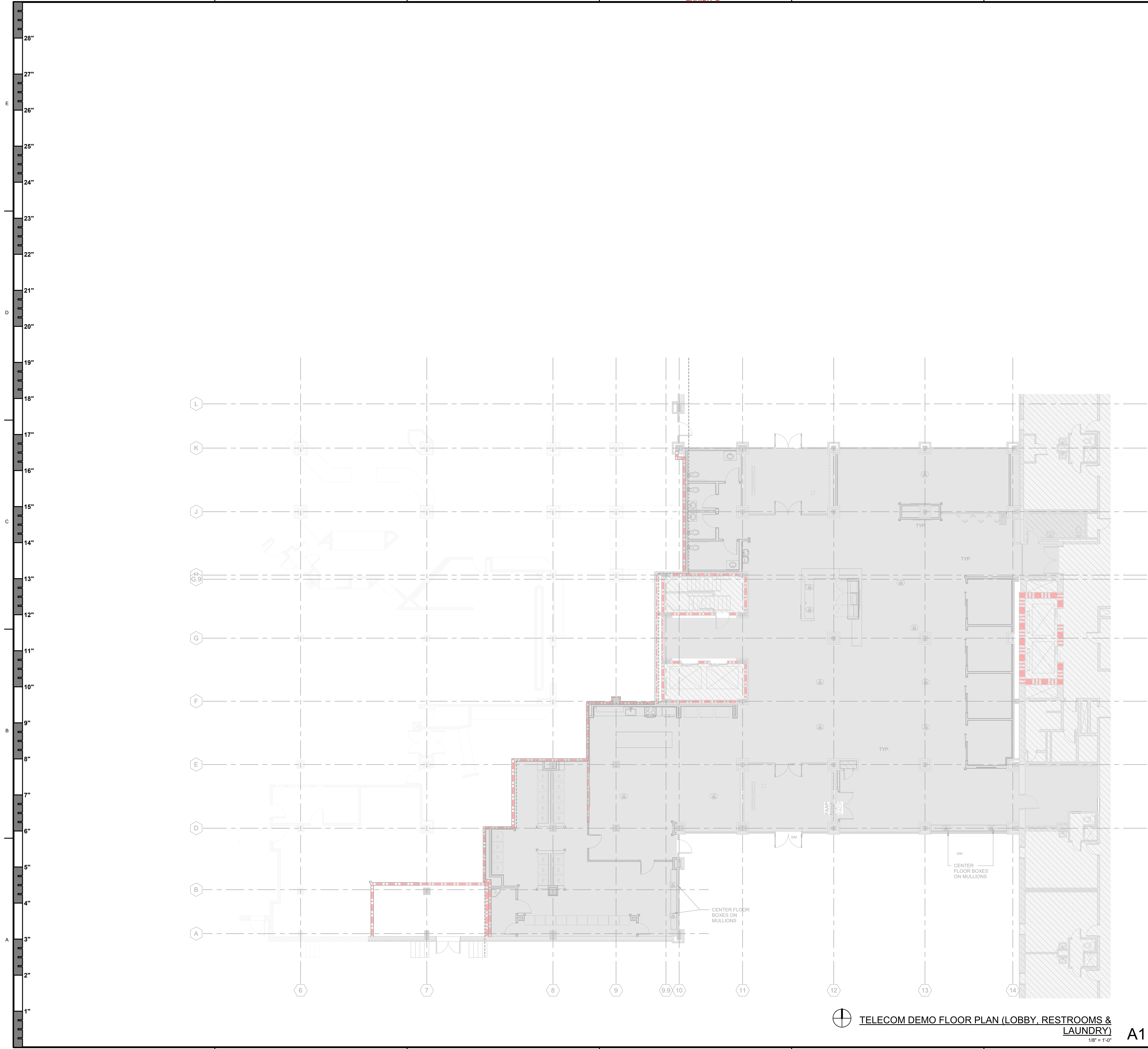
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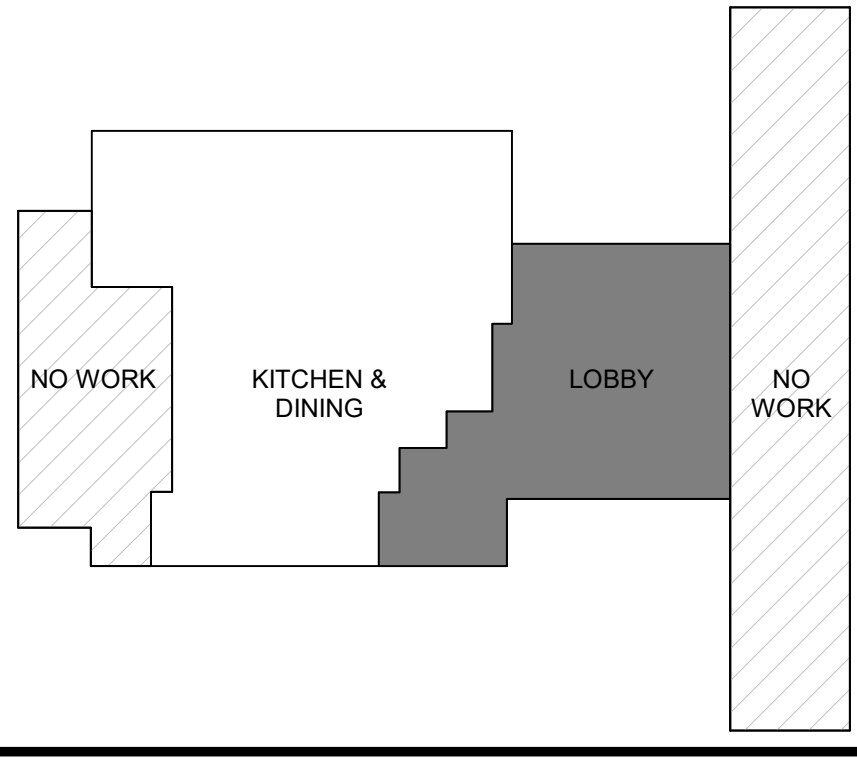


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TELECOM DEMO FLOOR PLAN (LOBBY, RESTROOMS & LAUNDRY)  
1/8" = 1'-0"

A1



GENERAL NOTES

1. EXISTING CABLING IN GRAY SCALE TO REMAIN. CABLING TO BE COILED UP ABOVE CEILING FOR USE IN RENOVATION. PROTECT DURING CONSTRUCTION.

KEYNOTE LEGEND

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TELECOM - DEMOLITION FLOOR PLAN (LOBBY, RESTROOMS & LAUNDRY)

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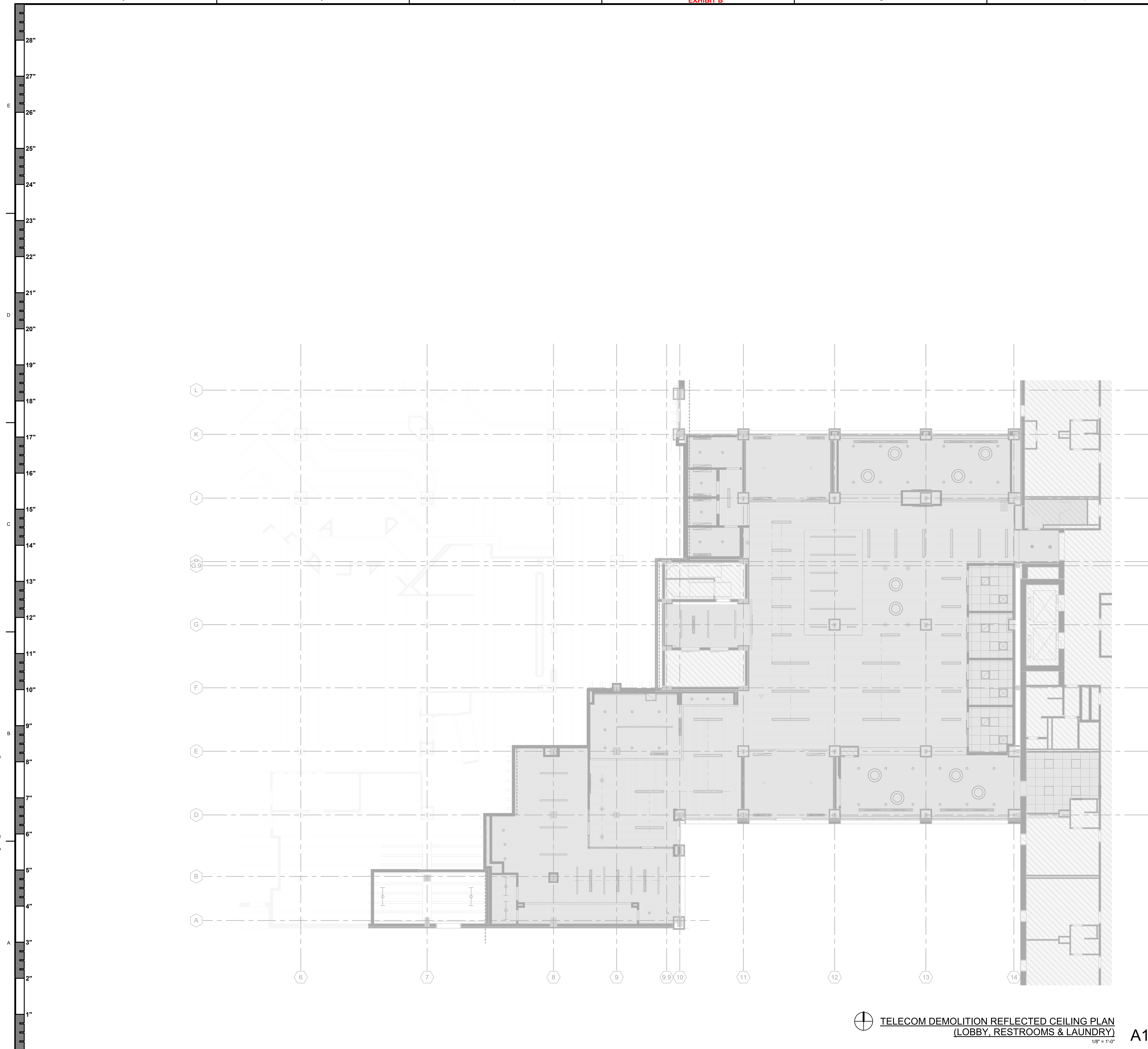
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REG. NO. 362885  
EXPIRES 12/31/2025  
\* RCDD \*

02/06/2024





TELECOM DEMOLITION REFLECTED CEILING PLAN  
(LOBBY, RESTROOMS & LAUNDRY)

$$1/8" = 1'-0"$$

A1

1. EXISTING CABLING IN GRAY SCALE TO REMAIN  
CABLING TO BE COILED UP ABOVE CEILING  
FOR USE IN RENOVATION. PROTECT DURING  
CONSTRUCTION.
2. EXISTING CEILING DEVICES TO BE REMOVED  
AND GIVEN TO UNT IT FOR REUSE IN  
RENOVATION.

### KEYNOTE LEGEND

**Note:**

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TELECOM - DEMOLITION  
REFLECTED CEILING  
PLAN (LOBBY,  
RESTROOMS &

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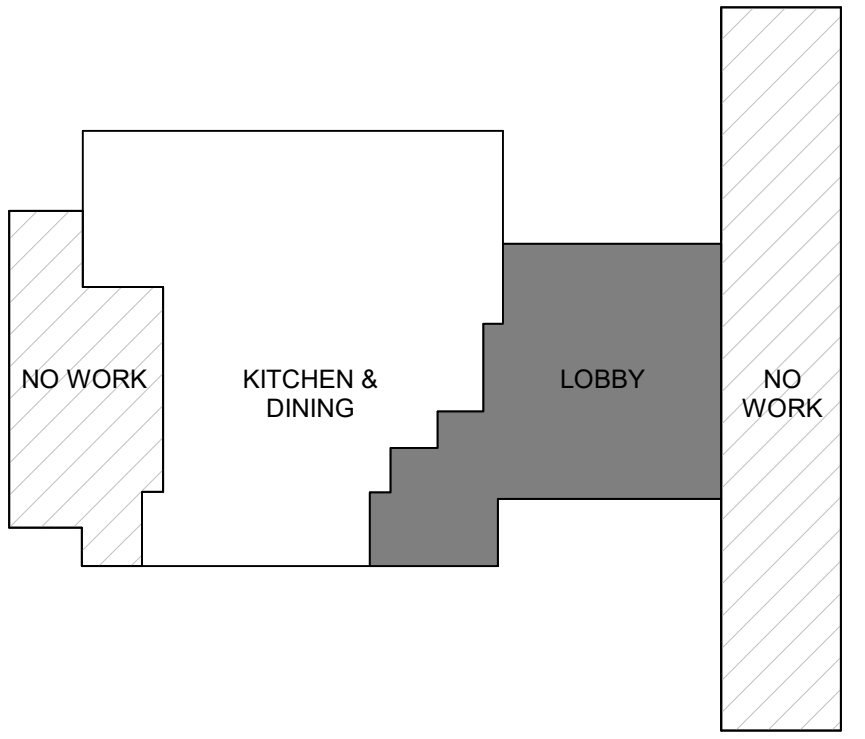


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- GENERAL NOTES**
1. REUTILIZE CABLING COILED UP IN DEMOLITION. PROVIDE NEW J HOOK PATHWAY TO PROPERLY SUPPORT ALL CABLING.
  2. DATA AT INFO/RECEPTION AREA TO BE FED FROM CEILING VIA CONDUIT PATHWAY TO BACK BOX AT MILLWORK.
  3. FLEXIBLE METALLIC CONDUIT IS REQUIRED WITHIN THE MILLWORK CAVITY FOR CABLING TRAVELING HORIZONTALLY TO LOCATIONS AT THE RECEPTIONIST'S DESK.
- KEYNOTE LEGEND**
- |   |   |
|---|---|
| 1 | DATA LOCATIONS AND CABLING TO REMAIN IN RA WORKROOM B128. |
|---|---|



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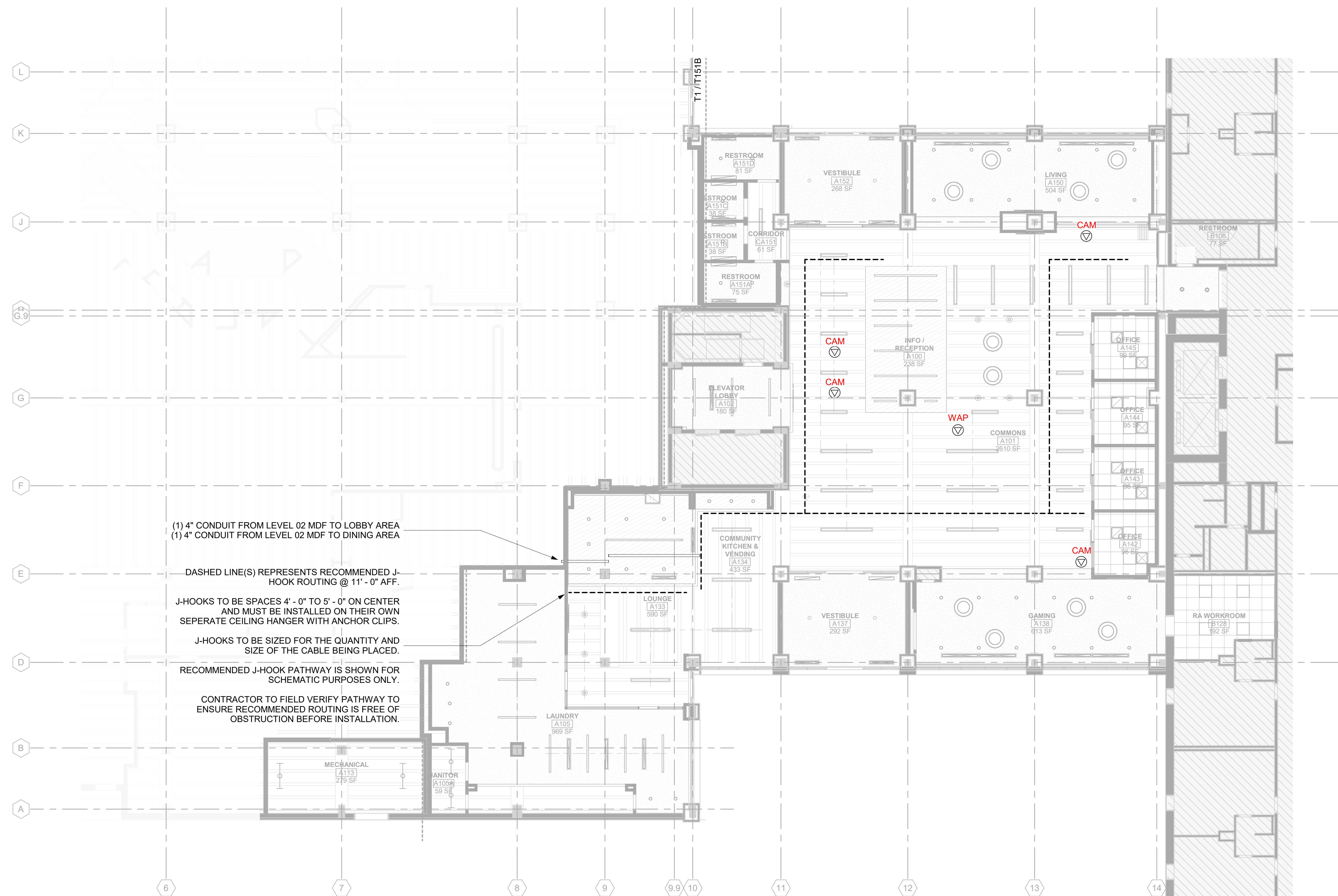
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TELECOM - FLOOR PLAN (LOBBY, RESTROOMS & LAUNDRY)

TreanorHL NO. Project Number

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TELECOM REFLECTED CEILING PLAN (LOBBY, RESTROOMS & LAUNDRY)

$1/8" = 1'-0"$

A1

1. CONTRACTOR TO PROVIDE CONDUIT PATHWAY FOR CABLE TRAVELING THROUGH OPEN CEILING AREAS (AREAS EXPOSING CEILING STRUCTURE).
2. REUTILIZE CABLING COILED UP IN DEMOLITION. PROVIDE NEW J HOOK PATHWAY TO PROPERLY SUPPORT ALL CABLING.
3. NEW J-HOOK TYPE PATHWAY REQUIRED TO SUPPORT EXISTING CATEGORY CABLING.

## KEYNOTE LEGEND

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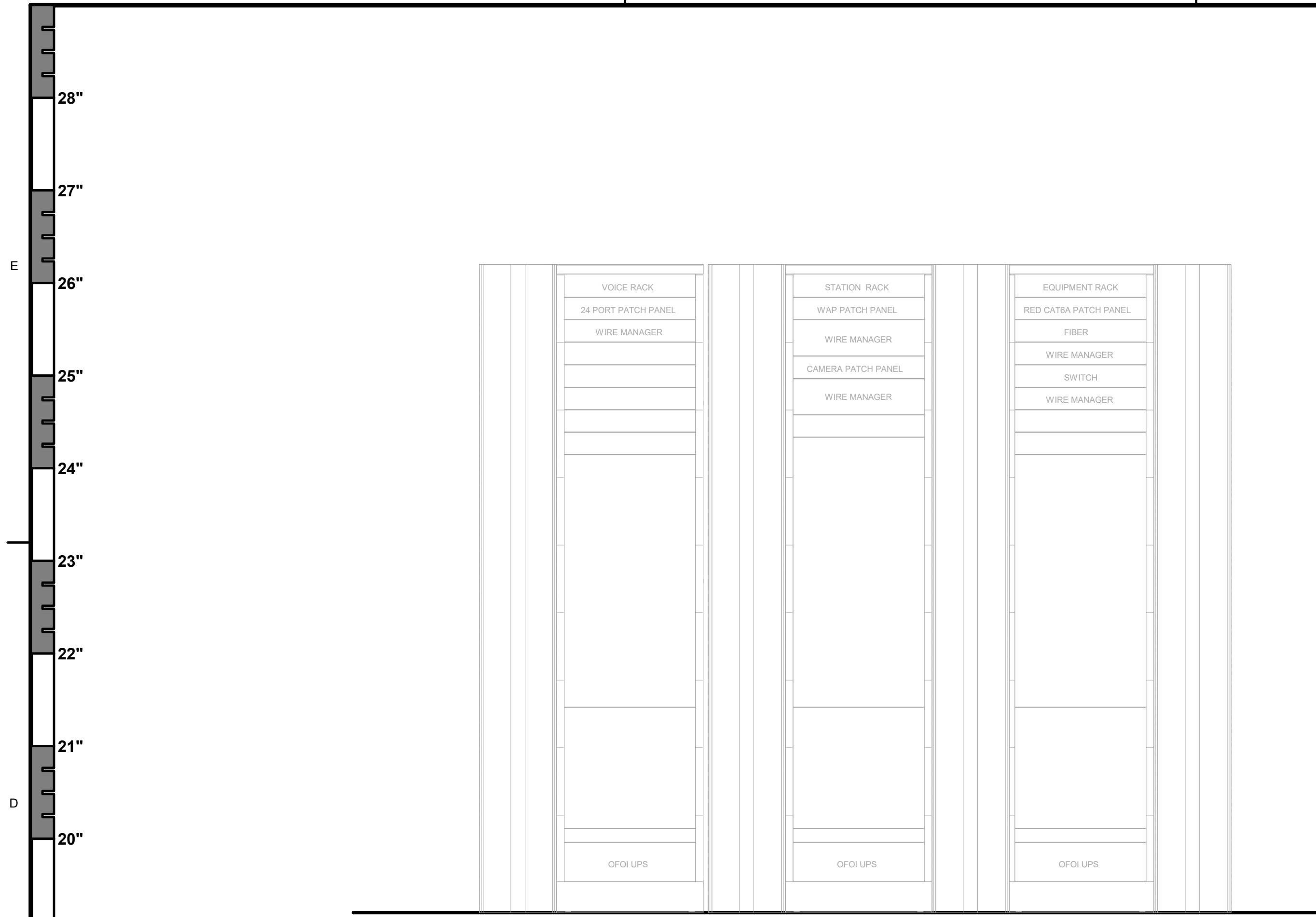
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CEILING PLAN (LOBBY,  
RESTROOMS &  
LAUNDRY)

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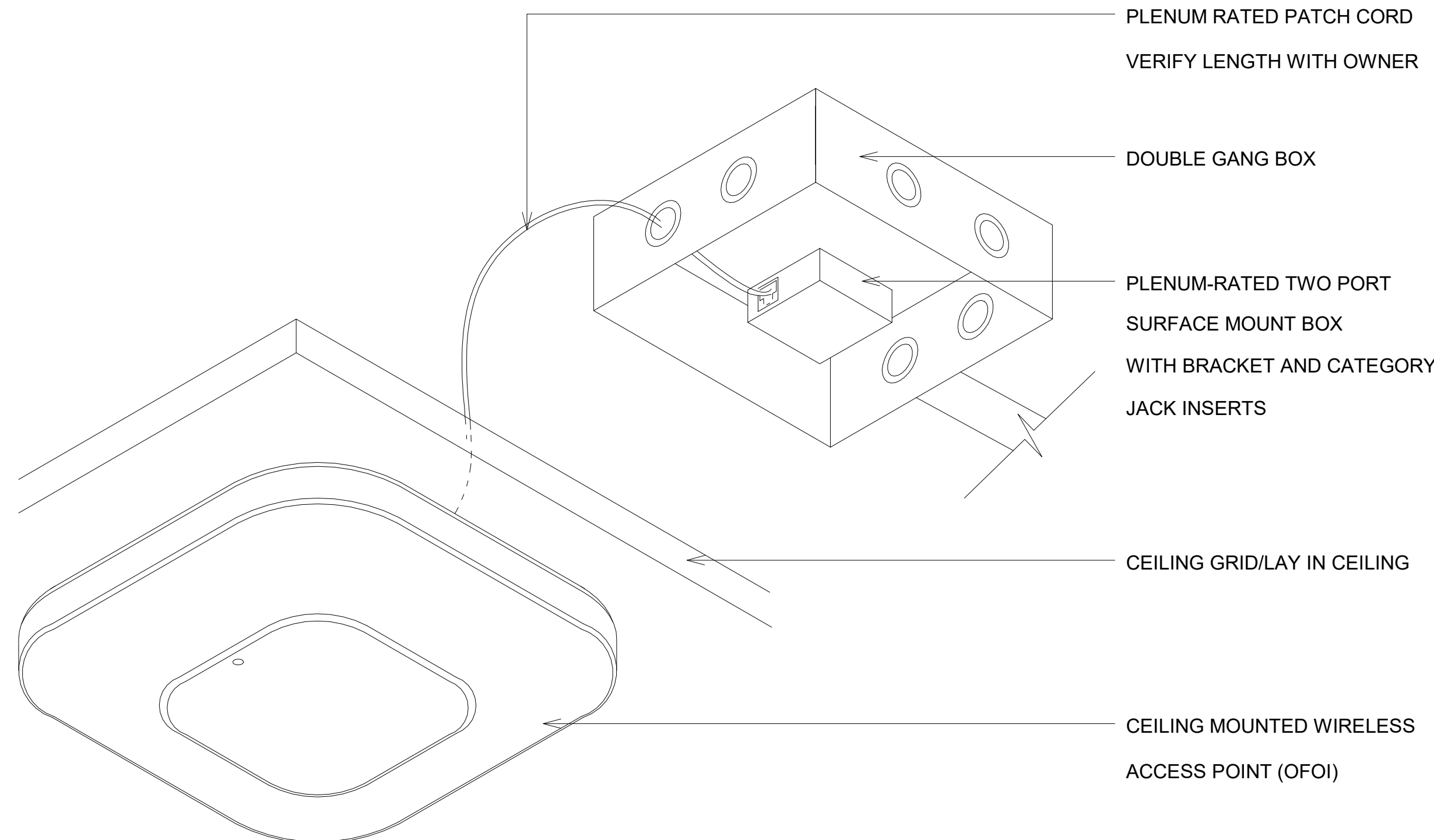
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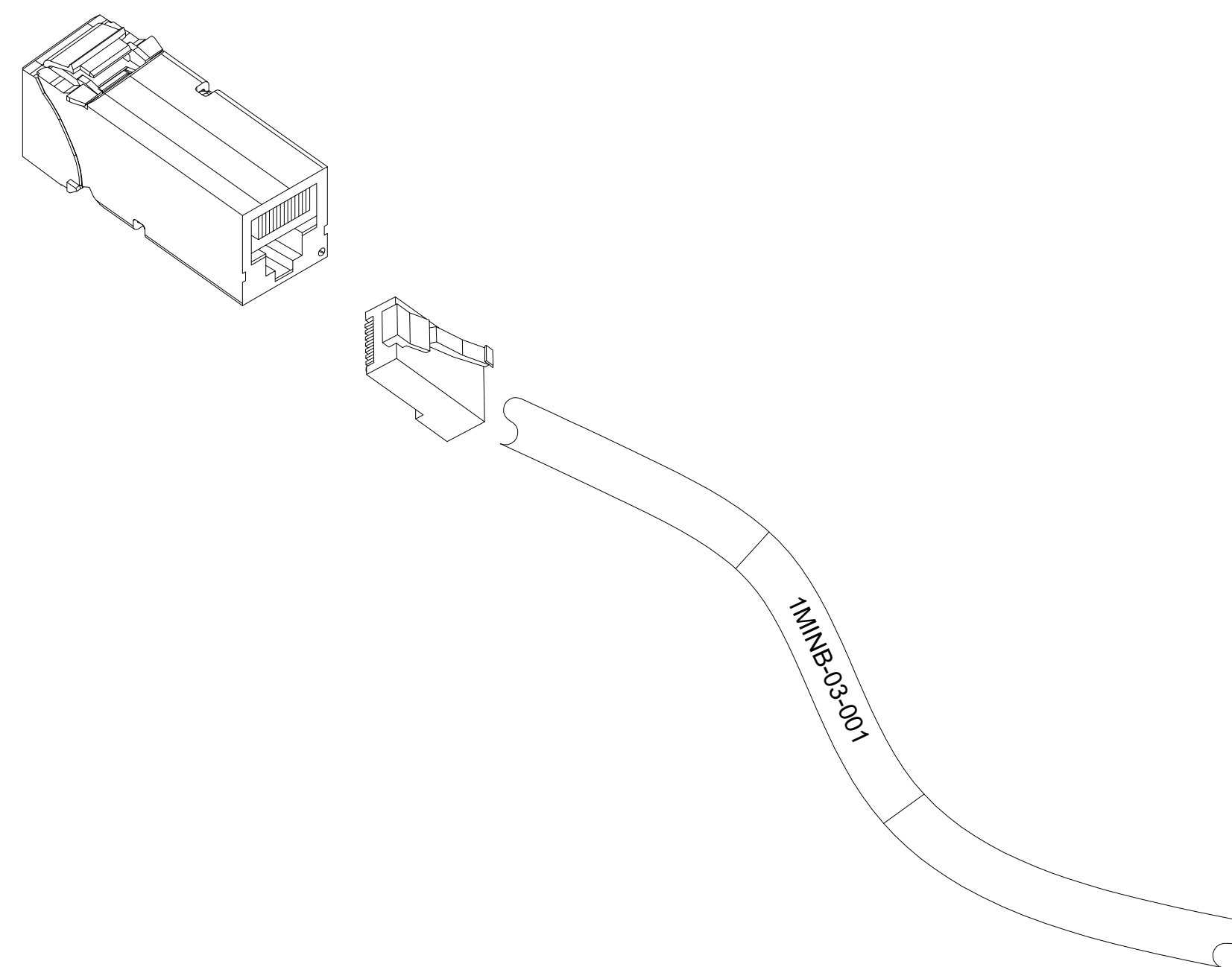
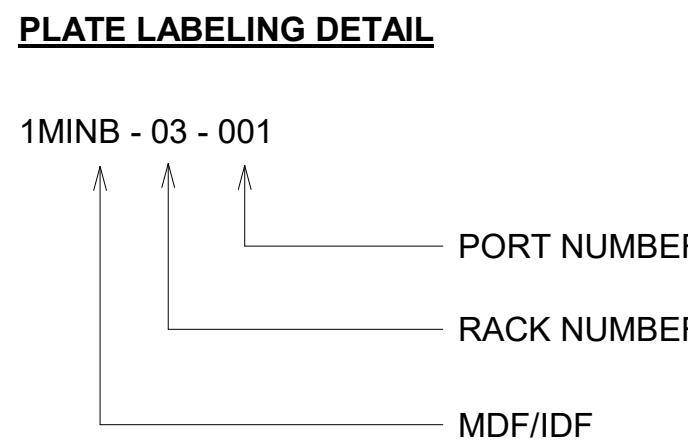


IT ROOM A207 EXISTING RACK LAYOUT 01  
1" = 1'-0"

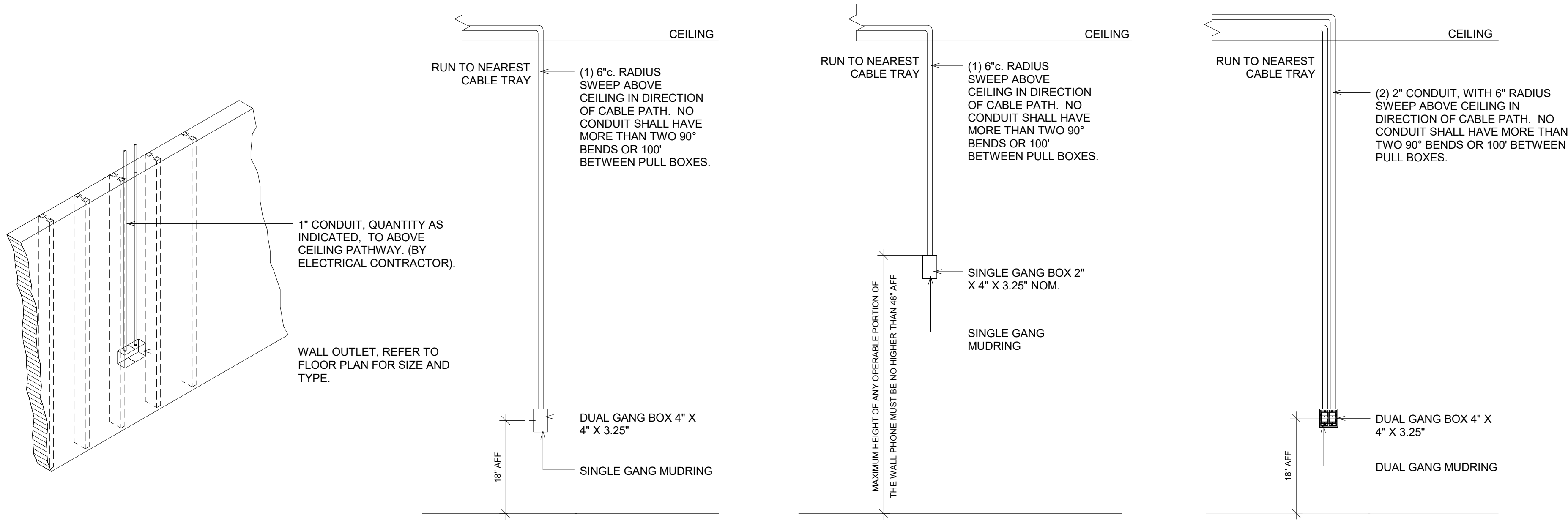


WIRELESS ACCESS POINT (WAP) ROUGH-IN 02  
N.T.S.

- GENERAL NOTES**
1. WRAP AROUND CABLE LABEL TO BE INSTALLED AT BOTH THE WORK AREA OUTLET AND CLOSET ENDS OF ALL CABLES. INSTALL LABEL 1" FROM THE END OF THE CABLE JACKET AT BOTH ENDS.
  2. CABLE LABELING SHALL BE MACHINE GENERATED AND NOT LESS THAN .125" IN HEIGHT.



CABLE LABEL 03  
N.T.S.



DATA OUTLET ROUGH-IN 04  
N.T.S.

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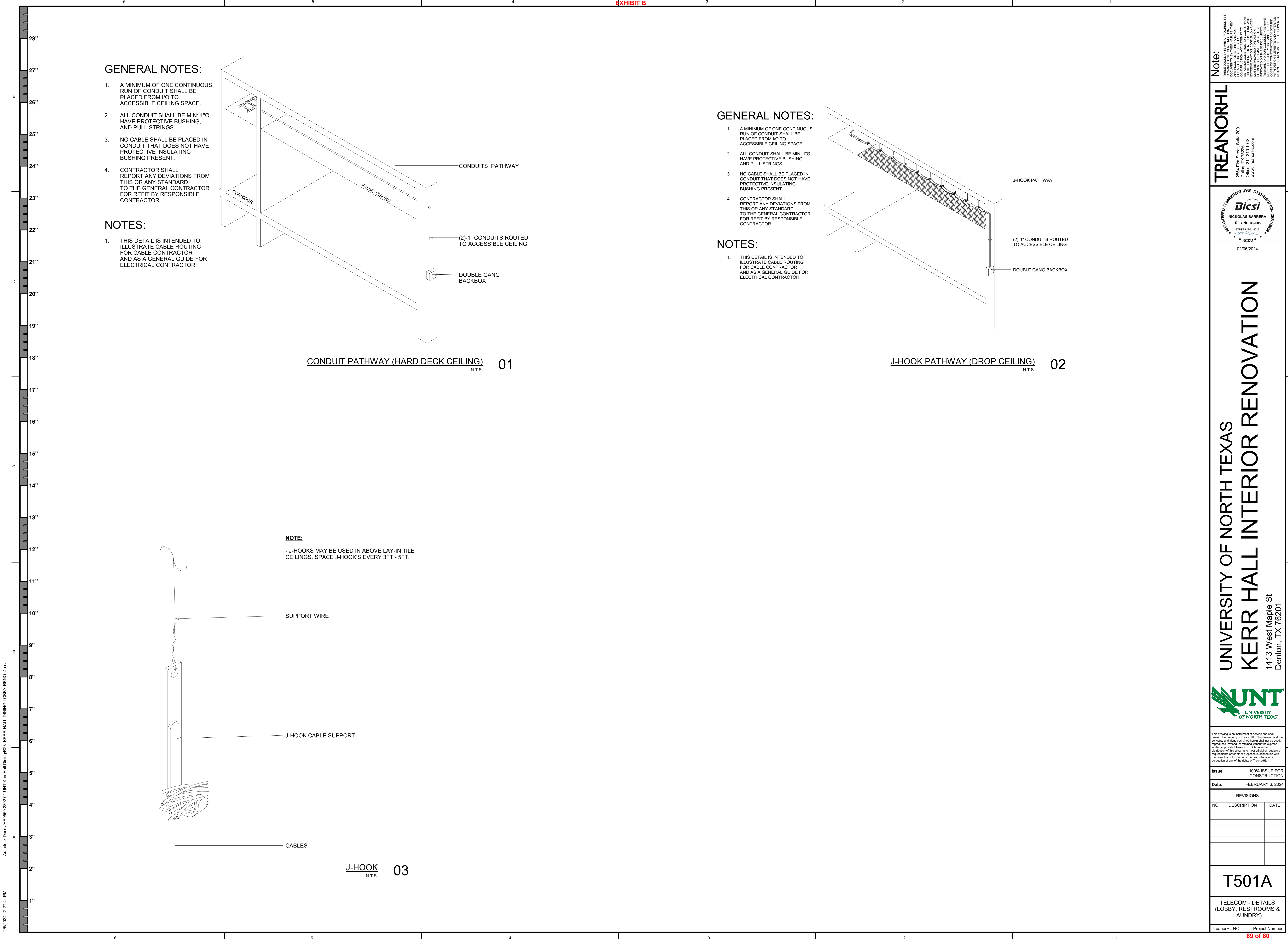
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**T500A**  
TELECOM - DETAILS  
(LOBBY, RESTROOMS & LAUNDRY)

TreanorHL NO. Project Number  
**65 of 80**





GENERAL NOTES:

1. A MINIMUM OF ONE CONTINUOUS RUN OF CONDUIT SHALL BE PLACED FROM I/O TO ACCESSIBLE CEILING SPACE.
2. ALL CONDUIT SHALL BE MIN. 1"Ø, HAVE PROTECTIVE BUSHING, AND PULL STRINGS.
3. NO CABLE SHALL BE PLACED IN CONDUIT THAT DOES NOT HAVE PROTECTIVE INSULATING BUSHING PRESENT.
4. CONTRACTOR SHALL REPORT ANY DEVIATIONS FROM THIS OR ANY STANDARD TO THE GENERAL CONTRACTOR FOR REFIT BY RESPONSIBLE CONTRACTOR.

NOTES:

1. THIS DETAIL IS INTENDED TO ILLUSTRATE CABLE ROUTING FOR CABLE CONTRACTOR AND AS A GENERAL GUIDE FOR ELECTRICAL CONTRACTOR.

GENERAL NOTES:

1. A MINIMUM OF ONE CONTINUOUS RUN OF CONDUIT SHALL BE PLACED FROM I/O TO ACCESSIBLE CEILING SPACE.
2. ALL CONDUIT SHALL BE MIN. 1"Ø, HAVE PROTECTIVE BUSHING, AND PULL STRINGS.
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NOTES:

1. THIS DETAIL IS INTENDED TO ILLUSTRATE CABLE ROUTING FOR CABLE CONTRACTOR AND AS A GENERAL GUIDE FOR ELECTRICAL CONTRACTOR.

NOTE:

- J-HOOKS MAY BE USED IN ABOVE LAY-IN TILE CEILINGS. SPACE J-HOOK'S EVERY 3FT - 5FT.

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**KERR HALL INTERIOR RENOVATION**  
1413 West Maple St  
Denton, TX 76201

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**Issue:** 100% ISSUE FOR CONSTRUCTION  
**Date:** FEBRUARY 6, 2024

REVISIONS		
NO	DESCRIPTION	DATE

**T501A**


TELECOM - DETAILS  
(LOBBY, RESTROOMS & LAUNDRY)

TreanorHL NO. Project Number

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## AUDIOVISUAL SYMBOL LEGEND

SYMBOL	TAG	DESCRIPTION	POWER REQUIREMENTS	DATA REQUIREMENTS	CONDUIT REQUIREMENTS	NOTES
	XX" DSD	DIGITAL SIGNAGE DISPLAY	120VAC/20A DUPLEX OUTLET INSTALLED WITHIN BACK BOX.	REFER TO TELECOM PLANS.	(2) 1-1/4" CONDUIT TERMINATED TO BACK BOX STUBBING UP TO ACCESSIBLE CEILING.	PROVIDE (1) CHIEF PAC526FBP4 BACK BOX AND (1) CHIEF/PEERLESS WALL MOUNT PER DEVICE LOCATION. ENSURE THAT COMBINED DISPLAY AND MOUNT DEPTH MAINTAIN ADA/TAS PROTRUSION COMPLIANCE.

## AUDIOVISUAL DRAWINGS INDEX

TA000A	AUDIOVISUAL - INDEX (LOBBY, RESTROOMS & LAUNDRY)
TA101A	AUDIOVISUAL - FLOOR PLAN (LOBBY, RESTROOMS & LAUNDRY)
TA151A	AUDIOVISUAL - REFLECTED CEILING PLAN (LOBBY, RESTROOMS & LAUNDRY)
TA500A	AUDIOVISUAL - SCHEMATICS
TA700A	AUDIOVISUAL - ELEVATIONS

## AUDIOVISUAL RESPONSIBILITY MATRIX

ITEM	GC	AV CONTRACTOR	OWNER
NETWORK CABLING TO IDF/MFD/BDF	X	-	-
CONDUITS	X	-	-
ELECTRICAL & JUNCTION BOXES	X	-	-
POWER > 24VDC	X	-	-
FLOOR BOXES, FLOOR POKES, & POKE THROUGHs	X	-	-
ACCESS PANELS	X	-	-
DISPLAY BACK BOXES (INSTALLATION)	X	-	-
DISPLAY BACK BOXES (PROCUREMENT)	-	X	-
CABLING (AUDIOVISUAL SYSTEMS)	-	X	-
DIGITAL SIGNAGE MEDIA PLAYERS	-	-	X
DIGITAL SIGNAGE CONTENT & SCHEDULING	-	-	X
DIGITAL SIGNAGE DISPLAYS & MOUNTS	-	X	-

## GENERAL NOTES

- THE ARCHITECTURAL PLANS AND SPECIFICATIONS, GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS AND SPECIFICATIONS AND REQUIREMENTS OF OTHER DIVISIONS REQUIRE COORDINATION AND SHALL APPLY TO THE DIVISION 27 CONTRACTOR. ANY COORDINATING INFORMATION NEEDING CLARIFICATION SHALL BE SUBMITTED VIA A "REQUEST FOR INFORMATION" (RFI) TO THE GC.
- AUDIOVISUAL CONTRACTOR, HEREAFTER REFERRED TO AS "CONTRACTOR," SHALL PROVIDE ALL MATERIALS, COMPONENTS, TOOLS AND LABOR TO INSTALL A COMPLETE AUDIOVISUAL SYSTEM AS SET FORTH IN THE AUDIOVISUAL SYSTEM DIVISION 2 SPECIFICATIONS, "I" DRAWINGS AND "E" DRAWINGS.
- THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE CONDITIONS TO DETERMINE THE EXTENT OF WORK AND CONDITIONS UNDER WHICH IT WILL NEED TO BE DONE. REVIEW AND VERIFY CONTRACT DOCUMENTS IN RELATION TO FIELD CONDITIONS TO VERIFY ACCURACY. THE OWNER AND DESIGN TEAM SHALL BE CONSULTED AS NEEDED FOR CLARIFICATION OR DIRECTION REGARDING ANY PROJECT RELATED QUESTIONS PRIOR TO PROCEEDING WITH THE WORK OR RELATED WORK IN QUESTION.
- DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER AND DESIGN TEAM FOR CLARIFICATION.
- REFER TO AUDIOVISUAL CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS AS A UNIT, AND IN WHOLE, IN THE BIDDING AND INSTALLATION OF THIS PROJECT.
- CONTRACTOR SHALL NOTE AND REPORT TO THE GC, ANY WORK PERFORMED BY THE ELECTRICAL CONTRACTOR OR ANY OTHER TRADE, INTENDED FOR SUPPORTING THE AUDIOVISUAL SYSTEMS, WHICH DOES NOT COMPLY WITH AUDIOVISUAL SPECIFICATIONS AND DRAWINGS.
- CONTRACTOR SHALL TAKE NECESSARY MEANS TO PROTECT AUDIOVISUAL SYSTEM COMPONENTS FROM MECHANICAL DAMAGE BEFORE, DURING AND AFTER CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN THE OWNER'S AND STRUCTURAL ENGINEER'S WRITTEN PERMISSION PRIOR TO PROCEEDING WITH ANY WORK NECESSITATING CUTTING INTO OR THROUGH ANY PART OF BUILDING STRUCTURES SUCH AS GIRDERS, BEAMS, CONCRETE OR TILE FLOORS, PARTITIONS AND/OR CEILINGS.
- CONTRACTOR IS REQUIRED TO REFERENCE DIVISION 27 SPECIFICATIONS FOR ITEMIZED PRICING REQUIREMENTS.
- AUDIOVISUAL CABLING SHALL BE ROUTED TO THE ASSOCIATED AUDIOVISUAL OUTLET IN CONDUIT, CABLE TRAY AND/OR J-HOOKS.
- FPSD SHALL INCLUDE DISPLAY MOUNTS, ASSOCIATED HARDWARE, CONDUIT WITH BACK BOXES AND CABLING AS NOTED OR REQUIRED FOR A COMPLETE SYSTEM.
- CONTRACTOR TO PROVIDE, APPROPRIATELY SIZED, MECHANICAL SLEEVES (STI EZE-PATH OR HILTI SPEED SLEEVE), THAT MATCH THE ROUTING OF THE WALL, FOR ANY WALL PENETRATIONS REQUIRED FOR CABLE ROUTING. CONTRACTOR SHALL COORDINATE WITH GC FOR ANY FRAMING OR OTHER IN-WALL PREPARATIONS.

## COORDINATION NOTES

1. AUDIOVISUAL DRAWINGS CONTAIN INFORMATION RELATED TO MULTIPLE TRADES (FRAMING, ELECTRICAL, ETC.) AND REQUIRES COORDINATION WITH THE GENERAL CONTRACTOR.
2. CONTRACTOR SHALL COORDINATE ALL AV PLATE FINISHES WITH THE ARCHITECT.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE FINAL LOCATIONS OF ALL SPEAKERS, PROJECTORS, CAMERAS AND MICROPHONES WITH MECHANICAL, ELECTRICAL AND PLUMBING (MEP) OVERHEAD LAYOUT. CONTACT ARCHITECT AND AV CONSULTANT OF ANY DISCREPANCIES.
4. CONTRACTOR TO INSTALL CEILING-MOUNTED SPEAKERS CENTERED IN CEILING TILE.
5. CONTRACT TO COORDINATE WITH THE OWNER ON ALL FINAL LOCATIONS FOR AUDIO-VIDEO CONTROL PLATES AND INTERCONNECT PLATES.
6. WALLS WITH DISPLAYS MOUNTED ON OPPOSING SIDES OF THE WALL MUST BE FRAMED OUT FOR BACK BOXES TO FIT BACK-TO-BACK.
7. THIS SHEET INCLUDES A RESPONSIBILITY MATRIX FOR ALL AV AND AV-RELATED ITEMS. ADDITIONAL COORDINATION FOR FURNITURE INSTALLATION WILL BE REQUIRED.
8. DATA AND FIBER OPTIC CABLEING TO THE OWNER'S NETWORK MUST BE INSTALLED, TERMINATED, TESTED AND DOCUMENTED BY THE TELECOMMUNICATIONS CONTRACTOR.
9. AUDIOVISUAL CABLES SHALL NOT BE PAINTED.
10. GENERAL CONTRACTOR TO PROVIDE ¾" PLYWOOD IN-WALL BLOCKING FOR ALL WALL-MOUNTED FLAT PANEL DISPLAYS.
11. ALL AUDIOVISUAL CABLEING PLACED IN CABLE TRAY MUST BE PLACED BY TELECOMMUNICATIONS CONTRACTOR.

## ELECTRICAL NOTES

1. ELECTRICAL CONTRACTOR SHALL READ, IN THEIR ENTIRETY, ALL SECTIONS OF THE AUDIOVISUAL SYSTEM DOCUMENTS AND APPLY THEM AS APPROPRIATE FOR WORK IN THIS SECTION. REFERENCE DIVISION 27 SPECIFICATIONS, "T," AND "TA" DRAWINGS.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS, COMPONENTS, TOOLS AND LABOR REQUIRED TO COMPLETE COMMUNICATIONS CABLING PATHWAY, ELECTRICAL POWER DISTRIBUTION AND GROUNDING SYSTEM AS SET FORTH IN THE COMMUNICATIONS CABLING, AUDIOVISUAL SYSTEM AND THE ELECTRICAL DOCUMENTS, SPECIFICATIONS AND DRAWINGS.
3. ALL ELECTRICAL OUTLETS FOR AV DEVICES SHALL BE ON THE SAME PHASE AND SHALL NOT SHARE CIRCUITS WITH MOTORS.
4. ALL AV DEVICES LOCATED IN OPEN OR INACCESSIBLE CEILINGS REQUIRE CONDUIT BACK TO ACCESSIBLE CEILING SPACE.
5. ALL AV WALL PLATES, BACK BOXES AND PLENUM BOXES REQUIRE A CONDUIT ROUTED BACK TO THE NEAREST CORRIDOR SPACE OR ACCESSIBLE CEILING.
6. ALL AV FLOOR BOXES AND POKE-THRU SHALL HAVE CONDUIT ROUTED UP TO THE LEVEL BEING SERVED AND TO THE NEAREST ACCESSIBLE CEILING.

**Note:**

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TA000A

AUDIOVISUAL - INDEX  
(LOBBY, RESTROOMS &  
LAUNDRY)

TreanorHL NO.	Project Number
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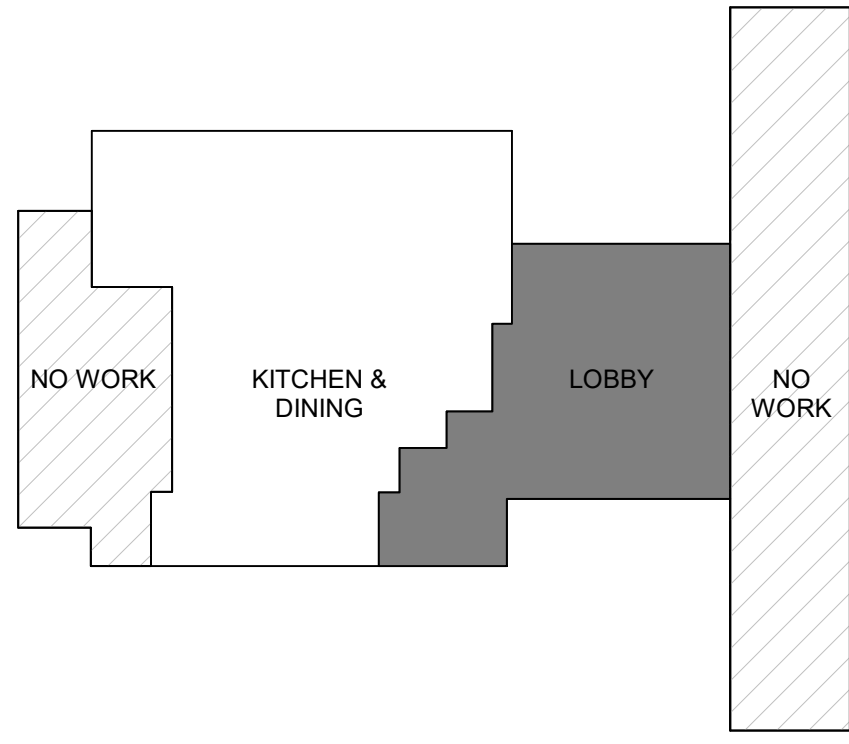
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AUDIOVISUAL SCHEDULE

ROOM #	ROOM TYPE	SCHEMATIC	ELEVATION
A101	DIGITAL SIGNAGE DIGITAL SIGNAGE	TA500/A1 TA500/A1	TA700/A1 TA700/A1
A133	DIGITAL SIGNAGE	TA500/A1	TA700/A1
A150	DIGITAL SIGNAGE	TA500/A1	TA700/A1



LEVEL 1 AUDIOVISUAL FLOOR PLAN (LOBBY)  
1/8" = 1'-0"

A1

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**TA101A**

AUDIOVISUAL - FLOOR PLAN (LOBBY, RESTROOMS & LAUNDRY)

TreanorHL NO. \_\_\_\_\_ Project Number \_\_\_\_\_

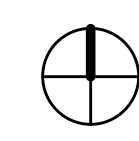
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**Bicsi**  
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$1/8'' = 1'-0''$

A diagram of a building layout. It consists of four main rectangular areas. On the far left and far right are vertical rectangles filled with diagonal hatching, both labeled "NO WORK". Between them is a larger area divided into three parts: a top-left white rectangle labeled "KITCHEN & DINING", a bottom-right dark grey rectangle labeled "LOBBY", and a small white rectangular area at the bottom center. A set of three steps connects the "KITCHEN & DINING" area to the "LOBBY" area.

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# KERR HALL INTERIOR RENOVATION



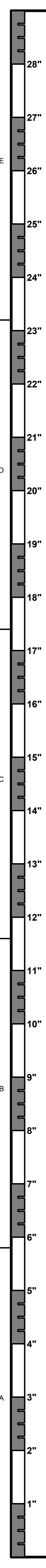
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**Note:**

## Note:



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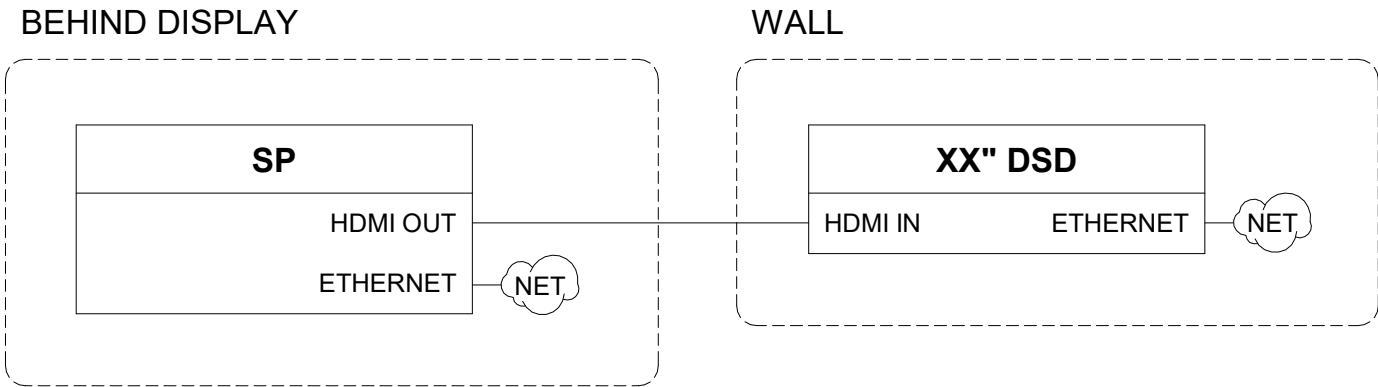
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EXHIBIT B

2

1

SYMBOL	DESCRIPTION	MAKE	MODEL	NOTES
XX" DSD	DIGITAL SIGNAGE DISPLAY	SAMSUNG	QMR-B SERIES	REFER TO PLANS FOR DISPLAY SIZE AND LOCATION.
SP	DIGITAL SIGNAGE MEDIA PLAYER	TBD	TBD	OWNER FURNISHED, CONTRACTOR INSTALLED.



DIGITAL SIGNAGE  
NTS A1

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TA500A

AUDIOVISUAL - SCHEMATICS

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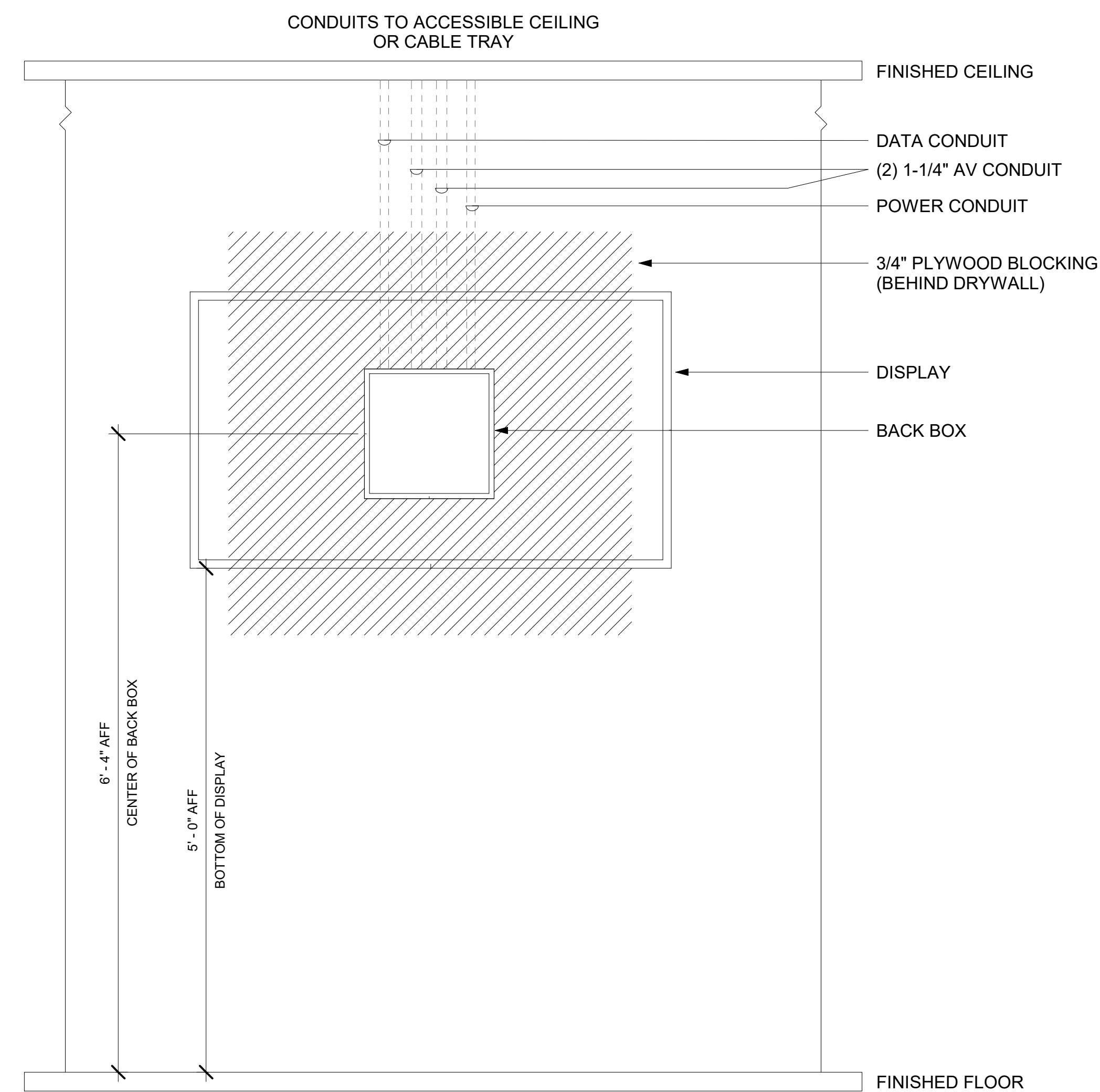
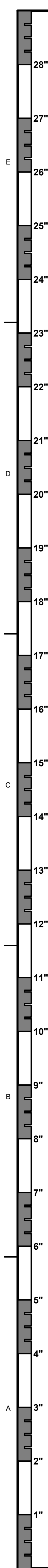
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65" DSD      A1

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AUDIOVISUAL -  
ELEVATIONS

TA700A

[illegible]

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**Note:**

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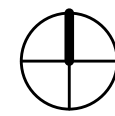






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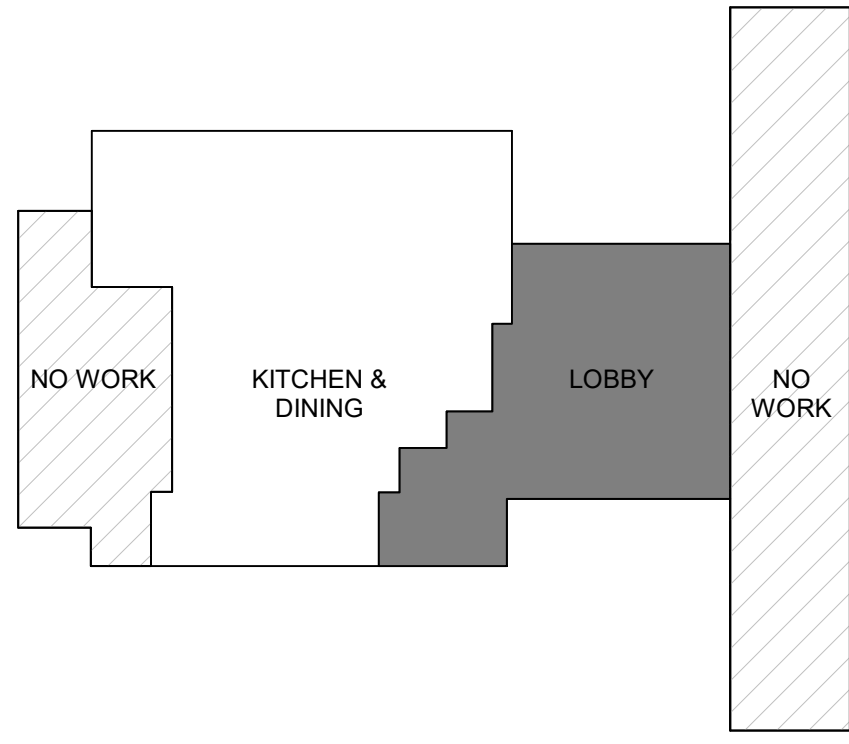
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LEVEL 1 SECURITY DEMO FLOOR PLAN (LOBBY)

1/8" = 1'-0"

A1



GENERAL NOTES

1. EXISTING COMPOSITE CABLING IN GRAY SCALE AREA TO BE DEMOED BACK TO THE ACCESS CONTROL PANEL. EXISTING DEVICES AND COMPONENTS TO REMAIN AND PROTECTED DURING CONSTRUCTION.

KEYNOTE LEGEND

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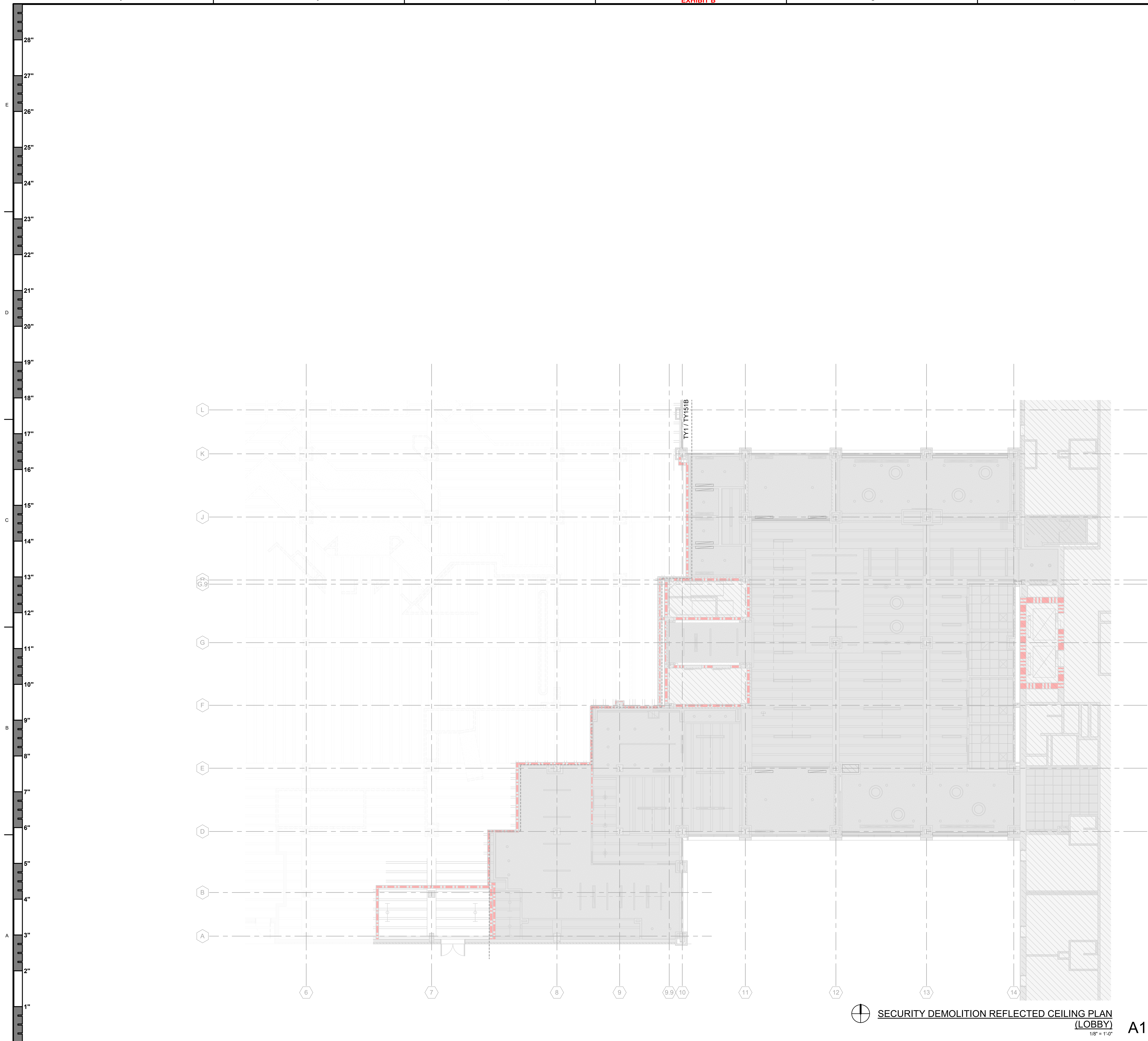
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SECURITY - DEMOLITION FLOOR PLAN (LOBBY, RESTROOMS & LAUNDRY)

TreanorHL NO. Project Number

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1. EXISTING CATEGORY CABLING IN GRAY SCALE AREA TO REMAIN AND COILED UP ABOVE CEILING FOR USE IN RENOVATION.
2. CABLING TO BE PROTECTED DURING CONSTRUCTION.
3. EXISTING CEILING DEVICES TO BE REMOVED AND GIVEN TO UNT IT FOR USE IN RENOVATION.

## KEYNOTE LEGEND

**Note:**

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TYD151A

SECURITY - DEMOLITION  
REFLECTED CEILING  
PLAN (LOBBY,  
RESTROOMS &

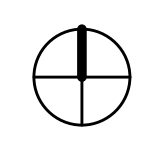
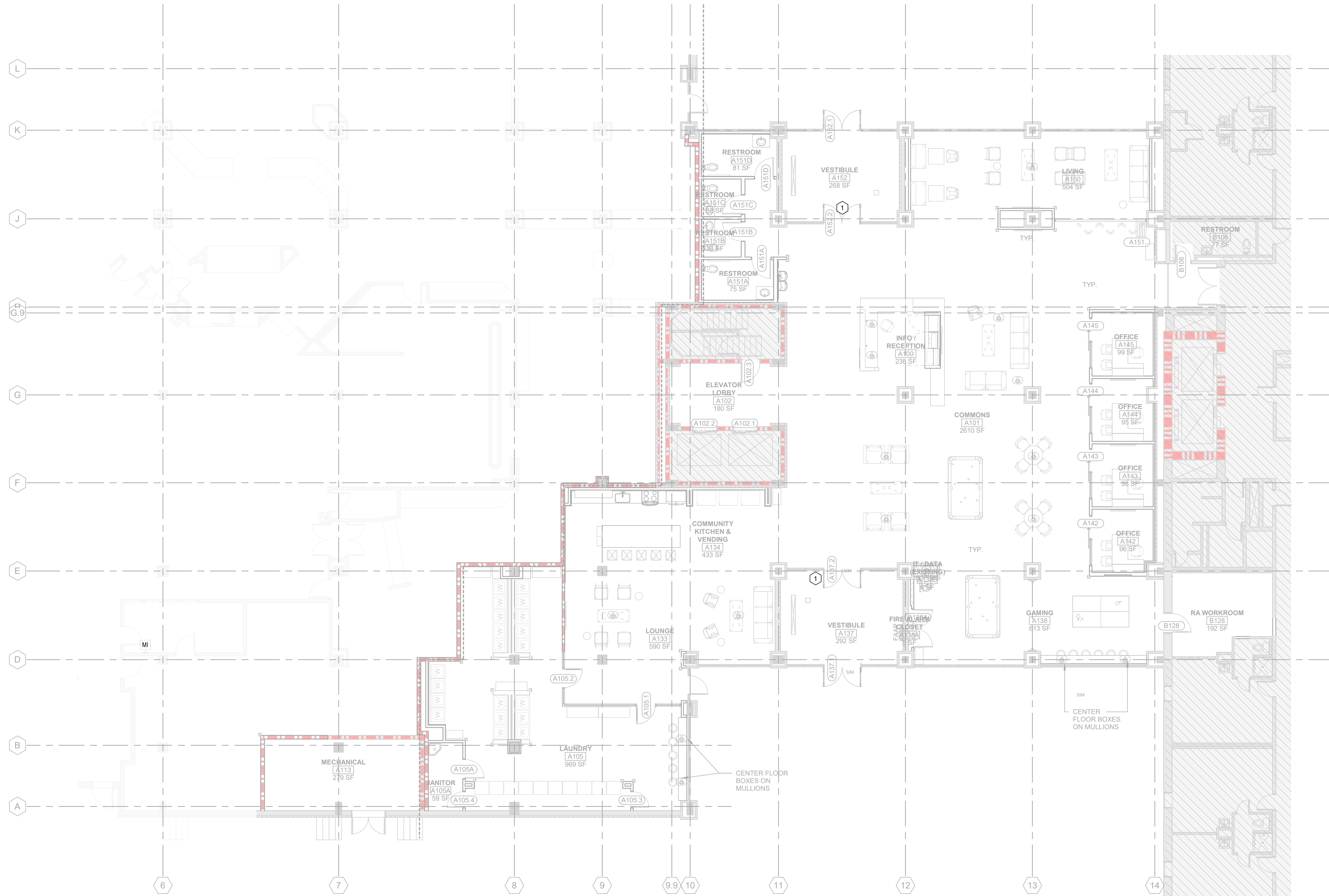
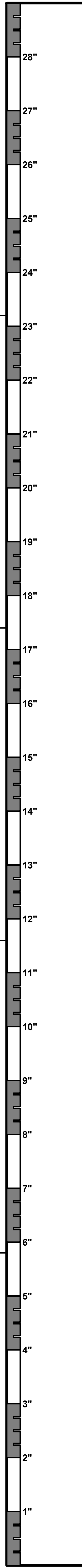
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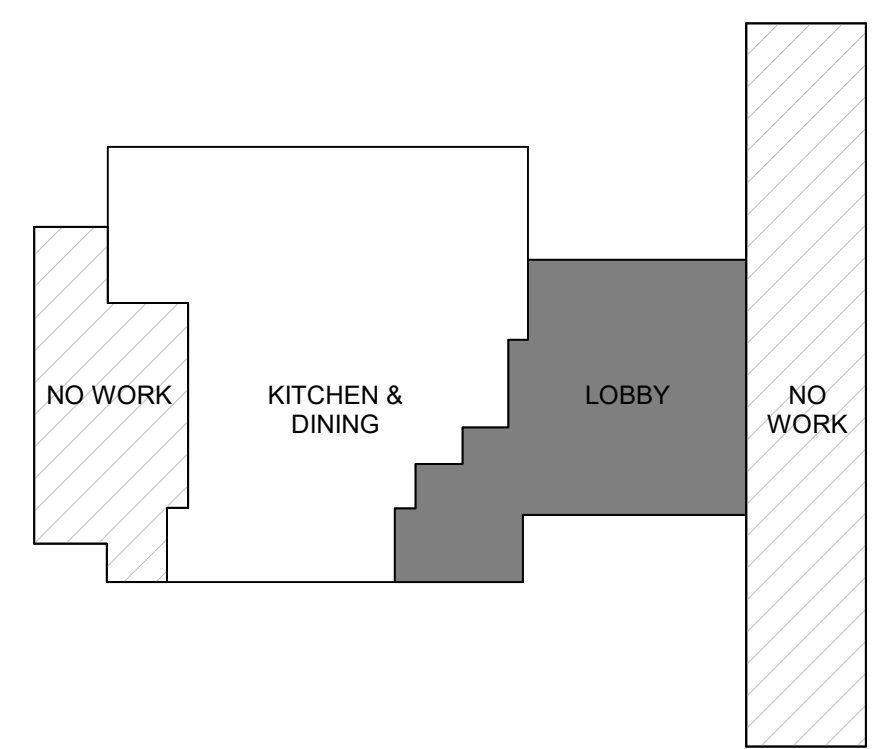
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LEVEL 1 SECURITY FLOOR PLAN (LOBBY)

1/8" = 1'-0"



KEYNOTE LEGEND	
1	INSTALL NEW COMPOSITE CABLING TO TERMINATE AT EXISTING ACCESS CONTROL PANEL TO EXISTING DOOR COMPONENTS.

- GENERAL NOTES
- NEW J HOOK TYPE PATHWAY REQUIRED TO SUPPORT EXISTING AND NEWLY INSTALLED CABLING.
  - CONTRACTOR TO PROVIDE CONDUIT PATHWAY FOR CABLE TRAVELING THROUGH OPEN CEILING AREAS (AREAS EXPOSING CEILING STRUCTURE).

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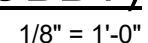
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SECURITY - FLOOR PLAN (LOBBY, RESTROOMS & LAUNDRY)

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### KEYNOTE LEGEND

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SECURITY - DETAILS  
(LOBBY, RESTROOMS &  
LAUNDRY)

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