





UNIVERSITY OF NORTH TEXAS **KERR HALL DINING RENOVATION MEAN GREENS VEGAN DINING HALL**

ISSUE FOR CONSTRUCTION JANUARY 30, 2025







UNIVERSITY OF NORTH TEXAS **KERR HALL DINING RENOVATION**

FOOD SERVICE EQUIPMENT

Foodservice Design Professionals 584 N Kimball Ave Southlake, TX 76092 (p) 972.245.5300

SHEET INDEX

GENERAL G000

G001

G002

G003 G004 G005

G101

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SITE VICINITY MAP, PROJECT TEAM, & SHEET INDEX
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TYPICAL MOUNTING & ACCESSIBILITY REQUIREMENTS
PARTITION TYPES, DETAILS, & NOTES
OVERALL 3D VIEW
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FOOD SERVICE EQUIPMENT

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M202	ROOF LEVEL MECHANICAL PLAN
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M705	CONTROLS DETAILS - VAV WITH HW REHEAT

COST ESTIMATING

Vermeulens 325 N. St. Paul Street, Suite 3100 Dallas, TX 75201 (p) 469.965.1333

PLUMBING	
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TELECOM

T000B	TELECOM - INDEX (KITCHEN & DINING)
T101B	TELECOM - FLOOR PLAN (KITCHEN & DINII
T151B	TELECOM - REFLECTED CEILING PLAN (KI
T500B	TELECOM - DETAILS (KITCHEN & DINING)
T501B	TELECOM - DETAILS (KITCHEN & DINING)

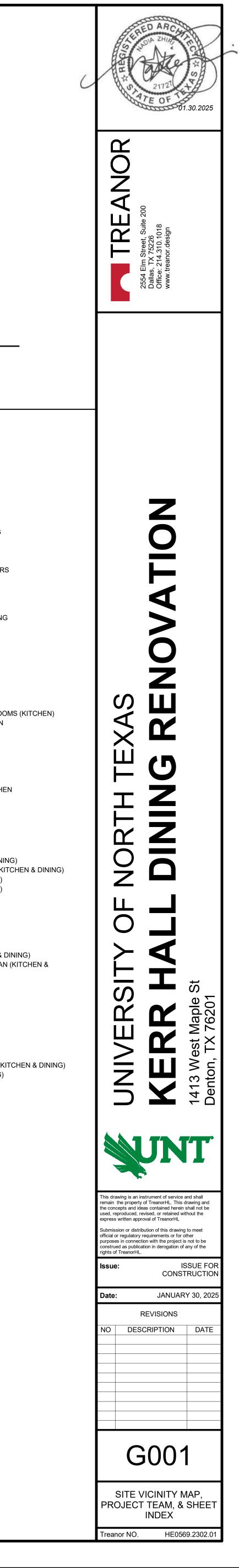
AUDIOVISUAL

TY500B

TA000B	AUDIOVISUAL - INDEX
TA101B	AUDIOVISUAL - FLOOR PLAN (KITCHEN & D
TA151B	AUDIOVISUAL - REFLECTED CEILING PLAN DINING)
TA500B	AUDIOVISUAL - SCHEMATICS
TA700B	AUDIOVISUAL - ELEVATIONS

SECURITY	
TY000B TY151B	SECURITY - INDEX (KITCHEN & DINING) SECURITY - REFLECTED CEILING PLAN (KIT

SECURITY - REFLECTED CEILING PLAN (K
SECURITY - DETAILS (KITCHEN & DINING)



28"	AA	AUTOMATICALLY ACTUATED	FLUOR	FLUORESCENT	PLWD	PLYWC
	ABS ABV	ABSOLUTE ABOVE	FND FOC	FOUNDATION FACE OF CONCRETE	PNL PR	PANEL PAIR
	AC	ABOVE COUNTER	FOF	FACE OF FINISH	PSF	POUNE
27"	ACMU ACOUS	ARCHITECTURAL CEMENTITIOUS MASONRY UNIT ACOUSTICAL	FOM FOS	FACE OF MASONRY FACE OF STUCCO	PSI PT	POUNE PAINT,
	ACT AD	ACOUSTICAL CEILING TILE AREA DRAIN	FP FR	FIREPROOF(ING) FIRE RATED	PTR PVC	PAPER POLYV
ł	ADA	AMERICANS WITH DISABILITIES ACT	FRP	FIBERGLASS REINFORCED PLASTIC	PVMT	PAVEN
İ	ADJ AFF	ADJUSTABLE ABOVE FINISHED FLOOR	FS FT	FLOOR SINK FEET	QT QTY	QUARF QUANT
26"	AG AHU	ACRYLIC GLAZING AIR HANDLING UNIT	FTG FUR	FOOTING FURRING	R RA	RADIUS
	ALT	ALTERNATE	FUT	FUTURE	RAD	RADIUS
	ALUM ANCH	ALUMINUM ANCHOR	GA GALV	GAUGE GALVANIZED	RB RBT	RUBBE RABBE
25"	AP APX	ACCESS PANEL APPROXIMATE	GB GC	GRAB BAR GENERAL CONTRACTOR	RCP RD	REFLE
	ARCH	ARCHITECT(URAL)	GD	GRADE/GRADING	RE	REFER
	AUTO BD	AUTOMATIC BOARD	GF GFRC	GROUND FACE GLASS FIBER REINFORCED CONCRETE	RECEP REF	RECEF REFER
24"	BLDG BLK	BUILDING BLOCK	GR GYP	GRADE, GRADING GYPSUM	REFR REG	REFRIG
	BM	BENCH MARK	GYP BD	GYPSUM BOARD	REINF	REINFO
	BO BOD	BOTTOM OF BASIS OF DESIGN	H HB	HIGH/HEIGHT HOSE BIB	REM REQ	REMO
	BOT BR	BOTTOM BRICK	HM HO	HOLLOW METAL HOLD OPEN	RES RET	RESILI
23"	BRG	BEARING	HORZ	HORIZONTAL	REV	REVISI
	BS BSMT	BOTH SIDES BASEMENT	HR HT	HOUR HEIGHT	RFG RFL	ROOFII REFLE
	BUR CA	BUILT UP ROOFING CARD ACTUATED	HVAC HW	HEATING/VENTILATING/AIR CONDITIONING HOT WATER	RFS RH	ROOM RIGHT
22"	CAB	CABINET	HWD	HARD WOOD	RM	ROOM
	CB CCTV	CHALKBOARD CLOSED CIRCUIT TELEVISION	ID IN	INSIDE DIAMETER INCHES	RO RTU	ROUGH ROOF 1
	CF	CORK FLOORING	INCL	INCLUDE(D), (ING)	RVRS	REVER
4"	CFCI CG	CONTRACTOR FURNISHED CONTRACTOR INSTALLED CORNER GUARD	INSUL INT	INSULATION, INSULATING INTERIOR	S SA	SOUTH SUPPL
1"	CH CI	CONDUCTOR HEAD CAST IRON	INTM JB	INTERMEDIATE JUNCTION BOX	SAM SAN	SELF-A SANITA
	CIP	CAST IN PLACE	JF	JOINT FILLER	SCHED	SCHED
	CJ CL	CONTROL JOINT CENTER LINE	JST JT	JOIST JOINT	SD SECT	STORM
)"	CLG CLR	CEILING CLEAR	KB KIT	KEYBOARD KITCHEN	SF SHT	SQUAR SHEET
	CMU	CONCRETE MASORY UNIT	КО	KNOCK OUT	SHTH	SHEAT
	CO COL	CLEAN OUT COLUMN	KS L	KNEE SPACE LONG/LENGTH	SHWR SIM	SHOWE
) "	CONC	CONCRETE	LAM		SLNT	SEALA
•	COND CONST	CONDITION CONSTRUCTION	LAV LH	LAVATORY LEFT HAND	SND SNR	SANITA SANITA
	CONT CORR	CONTINUOUS, CONTINUE CORRIDOR	LIN LLH	LINOLEUM LONG LEG HORIZONTAL	SPC SPCR	SPACE SPACE
	CPT	CARPET	LLV	LONG LEG VERTICAL	SPEC	SPECIF
8''	CR CS	CARD READER CUSTOM STEEL	LMS LT	LIMESTONE LIGHT	SPKR SQ	SPEAK SQUAR
	CT		LTL LW		SS SSK	SOLID S
	CTR CTSK	COUNTER COUNTERSUNK	LWC	LIGHT WEIGHT LIGHT WEIGHT CONCRETE	SSK	SERVIC
7"	CW D	COLD WATER DEEP/DEPTH/DRAIN	LWCMU M	LIGHT WEIGHT CONCRETE MASONRY UNIT METER(S)	ST STA	SPECIA STATIC
	DBL	DOUBLE	MAS	MASONRY	STD	STAND
	DF DFS	DRINKING FOUNTAIN DOOR AND FRAME SCHEDULE	MAT MAX	MATERIAL(S) MAXIMUM	STL STN	STEEL STONE
	DIA DIM	DIAMETER DIMENSION	MB MDF	MARKERBOARD MEDIUM DENSITY FIBERBOARD	STOR STP	STORA STAND
5"	DIV	DIVISION	MECH	MECHANICAL	STRUCT	STRUC
	DN DPR	DOWN DISPENSER	MED MEMB	MEDIUM MEMBRANE	SUSP SY	SUSPE SQUAR
	DR	DOOR	MFR	MANUFACTURE/MANUFACTURER	SYM	SYMME
5"	DS DTL	DOWNSPOUT DETAIL	MH MHO	MANHOLE MAGNETIC HOLD OPEN	SYS T	SYSTEI TREAD
	DWG E	DRAWING EAST	MIN MIR	MINIMUM MIRROR	T&G TBD	TONGU TO BE I
	EA	EACH	MISC	MISCELLANEOUS	TD	TRENC
.	EB ECUH	EXPANSION BOLT ELECTRIC CABINET UNIT HEATER	MLD MO	MOLDING, MOULDING MASONRY OPENING	TEL THK	TELEPH THICK(I
4"	EF	EACH FACE EXTERIOR INSUL. FINISH SYSTEM	MOD	MODULAR METAL STUDS	THRU	THROU
	EJ	EXPANSION JOINT	MT	MOUNT(ED), (ING)	то	TOP OF
	EL ELEC	ELEVATION ELECTRIC(AL)	MTFR MTL	METAL FURRING METAL	TOC TOS	TOP OF
3"	ELEV	ELEVATION/ELEVATOR	MTLR	METAL ROOF	TOW	TOP OF
	EMER ENC	EMERGENCY ENCLOSURE	MULL N	MULLION NORTH	TPD TPTN	TOILET
	EOS EP	EDGE OF SLAB ELECTRICAL PANEL	NIC NO	NOT IN CONTRACT NUMBER	TS TYP	TUBE S
ייכ	EPS	EXPANDED POLYSTYRENE	NOM	NOMINAL	TZ	TERRA
2"	EQ EQUIP	EQUAL EQUIPMENT	NR NRC	NOISE REDUCTION NOISE REDUCTION COEFFICIENT	UC UNF	UNDEF UNFINI
	EST	ESTIMATE	NTS	NOT TO SCALE	UNO	UNLES
	ETR EWC	EXISTING TO REMAIN ELECTRIC WATER COOLER	OC OD	ON CENTER OUTSIDE DIAMETER (or) OVERFLOW DRAIN	UR US	URINAL
1"	EXIST EXP	EXISTING EXPANSION	OFCI OFOI	OWNER FURNISHED CONTRACTOR INSTALLED OWNER FURNISHED OWNER INSTALLED	VB VCT	VAPOR
	EXT	EXTERIOR	OFVI	OWNER FURNISHED VENDOR INSTALLED	VERT	VERTIC
	FA FAAP	FRESH AIR FIRE ALARM ANNUNCIATOR PANEL	OH OPH	OVERHEAD OPPOSITE HAND	VEST VFCI	VESTIE VENDC
)''	FACP	FIRE ALARM CONTROL PANEL	OPNG	OPENING	VFOI	VENDC
•	FAS FB	FASTENER FACE BRICK	OPP PAF	OPPOSITE POWDER ACTUATED FASTENER	VFVI VIF	VENDC
	FBO FD	FURNISHED BY OTHERS FLOOR DRAIN	PAR PAV	PARAPET PAVING	W W/	WIDE/V WITH
	FDC	FIRE DEPARTMENT CONECTION	PB	PUSH BUTTON	W/O	WITHO
••	FE FEB	FIRE EXTINGUISHER FIRE EXTINGUISHER BRACKET	PC PCC	PORTLAND CEMENT PRECAST CONCRETE	WC WD	WATEF WOOD
	FEC FF	FIRE EXTINGUISHER CABINET\ FINISH FLOOR	PED	PEDESTRIAN PERIMETER	WDB WDO	WOOD
	FFCO	FLUSH FLOOR CLEANOUT	PERP	PERPENDICULAR	WG	WIRE G
8"	FFE FFL	FINISHED FLOOR ELEVATION FINISHED FLOOR LINE	PFB PIC	PREFABRICATE(D) POLYISOCYANURATE	WO WPG	WHERE
	FH	FLAT HEAD	PK	PARKING	WS	WRITA
	FHC FHMS	FIRE HOSE CABINET FLAT HEAD MACHINE SCREW	PL PL	PLATE PROPERTY LINE	WS WSCT	WATER
	FHWS FIN	FLAT HEAD WOOD SCREW FINISH	PLAM PLAS	PLASTIC LAMINATE PLASTER	WT WTW	WEIGH WALL T
7"	FIN	FLOW LINE	PLAS	PLUMBING	WWF	WELDE



5

PLYWOOD	
PANEL	
PAIR POUNDS PER S	SQUARE FOOT
POUNDS PER S PAINT, PAINTE	SQUARE INCH
PAPER TOWEL	RECEPTOR
POLYVINYL CH PAVEMENT	LORIDE
QUARRY TILE	
RADIUS OR RIS	SER
RETURN AIR RADIUS	
RUBBER BASE RABBET	
REFLECTED C	EILING PLAN
ROOF DRAIN	
RECEPTACLE REFERENCE	
REFRIGERATO REGISTER	R
REINFORCED(I	NG)
REMOVE REQUIRE(D)	
RESILIENT	
REVISION	
ROOFING REFLECT(ED),	(IVE), (OR)
ROOM FINISH S	
ROOM	
ROUGH OPENI ROOF TOP UNI	-
REVERSE	
SUPPLY AIR	
SELF-ADHEREI SANITARY	
SCHEDULE STORM DRAIN	
SECTION	
SQUARE FEET SHEET	
HEATHING	
SIMILAR	
SANITARY NAP	KIN DISPENSER
SANITARY NAP SPACE	PKIN RECEPTACLE
SPACER SPECIFICATION	N(S)
SPEAKER	
SQUARE SOLID SURFAC	E
SERVICE SINK	
SPECIAL TREA	
STATION STANDARD	
STEEL STONE	
STORAGE STANDPIPE	
STRUCTURAL	
SUSPENDED SQUARE YARD	
SYMMETRICAL SYSTEM	
[READ	
FONGUE AND (FO BE DETERM	
RENCH DRAIN	
THICK(NESS)	
HROUGH OILET	
OP OF	SETE
OP OF STEEL	, TOP OF SLAB
OP OF WALL	DISPENSER
OILET PARTIT	
FYPICAL	
TERRAZZO	ACT
JNFINISHED	D OTHERWISE
JRINAL	
IRINAL SCREE APOR BARRIE	
VINYL COMPOS	SITE TILE
ESTIBULE	
	IISHED CONTRACTOR INSTALLED IISHED OWNER INSTALLED
/ENDOR FURN /ERIFY IN FIEL	IISHED VENDOR INSTALLED D
WIDE/WIDTH	
VITH VITHOUT	
WATER CLOSE	Т
VOOD BASE	
VINDOW VIRE GLASS	
WHERE OCCUP	
WRITABLE SUF	
VATERSTOP VAINSCOT	
WEIGHT WALL TO WALL WELDED WIRE	

4

MAT	ERIA
	FACE BRICK
	CAST STON
	RIGID INSUL
	SPRAYED IN
	CONCRETE
	ASPHALT SI
	CONCRETE
	UNDISTURB
	DISTURBED
	METAL STU
	GYPSUM BC
	DRAINAGE F
	PLYWOOD
	BLANKET O
	WOOD FINIS
	DEMOLITIO
	EXISTING
	NEW PARTI

3

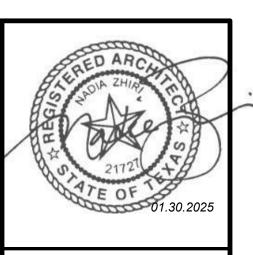
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LS	SYMBOLS	
K (PLAN/SECTION) NE (ELEVATION) JLATION	DETAIL SECTION	ELEVATION LEVEL NAME
INSULATION E MASONRY SHINGLES	BUILDING SECTION	CEILING TAG W/ HEIGHT & MATERIAL CL-1 CEILING TYPE, RE: FINISH SCHEDULE 1'-0" HEIGHT ABOVE FINISH FLOOR, UNO
E BED EARTH D EARTH	WALL SECTION The section of the sect	DOOR TAG (201A) UNIQUE ID ROOM NUMBER
JD/STEEL SOARD	BUILDING ELEVATION INTERIOR ELEVATION 1 A101 1 SHEET NUMBER	WINDOW TAGS 3'-0" - AFF (WIN. SILL)
DR LOOSE FILL N ISH	PLAN DETAIL SHEET NUMBER	GLAZING TAGS ?
DN	GRID LINE - NEW 0 - - GRID LINE - EXISTING 0 - -	
TTION		REVISION TAG
	PARTITION TYPE PARTITION TYPE INDICATOR A3z1 PARTITION TYPE DIMENSIONAL MODIFIER TYPE MODIFIER RATING - WHERE APPLIES	ROOM TAG ROOM NAME ROOM NAME 101 ROOM NUMBER ROOM TAG ROOM NAME W/ AREA 101
	CASEWORK TAG	150 SF ROOM SF SPECIALTY EQUIPMENT TAG 1i
	KEYNOTE TAG	GRAPHIC SCALE 0 4' 8' 16'

GENERAL NOTES 1. GENERAL NOTES APPLY TO WORK OF THIS PROJECT, INCLUDING CHANGES TO THE WORK APPROVED BY THE OWNER.

- 2. 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.
- 3. COMPLY WITH APPLICABLE CODES, ORDINANCES, REGULATIONS, AND AUTHORITIES HAVING JURISDICTION, AS A MINIMUM STANDARD.
- 4. COOPERATE WITH AUTHORITIES HAVING JURISDICTION AND SPECIAL INSPECTORS. PROVIDE TIMELY NOTIFICATION IN ADVANCE OF INSPECTIONS, AND ASSISTANCE AND FACILITIES TO ACCOMMODATE INSPECTIONS.
- 5. DO NOT PERFORM CHANGES TO THE WORK AFFECTING THE CONTRACT SUM OR CONTRACT TIME WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.
- 6. 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 7. 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.
- 8. INSTALL MANUFACTURED ITEMS, MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS, U.N.O.
- 9. 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.
- 10. KEEP THE WORK FREE OF ACCUMULATIONS OF WASTE MATERIALS AND DEBRIS. USE METHODS AGREEABLE TO THE OWNER FOR WASTE REMOVAL.
- 11. 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.
- 12. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL GOVERN. DETAILS SHALL GOVERN OVER PLANS AND ELEVATIONS; LARGE SCALE DETAILS SHALL GOVERN OVER SMALL SCALE DETAILS.
- 13. PROTECT EXISTING PROPERTY AND WORK FROM DAMAGE. REPAIR OR REPLACE ITEMS DAMAGED BY CONSTRUCTION ACTIVITY TO MATCH CONDITIONS PRIOR TO START OF WORK.
- 14. 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.
- 15. NOT USED
- 16. 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.
- 17. REMOVE EXISTING ITEMS NOT SHOWN TO REMAIN AND AS REQUIRED TO ACCOMMODATE NEW WORK. SALVAGE ITEMS WHERE INDICATED ON DRAWINGS.
- 18. 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.
- 19. 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.
- 20. NOTES OR DIMENSIONS LABELED "TYPICAL" SHALL APPLY TO SITUATIONS THAT ARE THE SAME OR SIMILAR.
- 21. ANY EXPOSED PIPING OR CONDUITS SHALL BE INSTALLED TIGHT TO WALLS, COLUMNS IN AREAS WHERE CEILINGS ARE OPEN TO STRUCTURE.



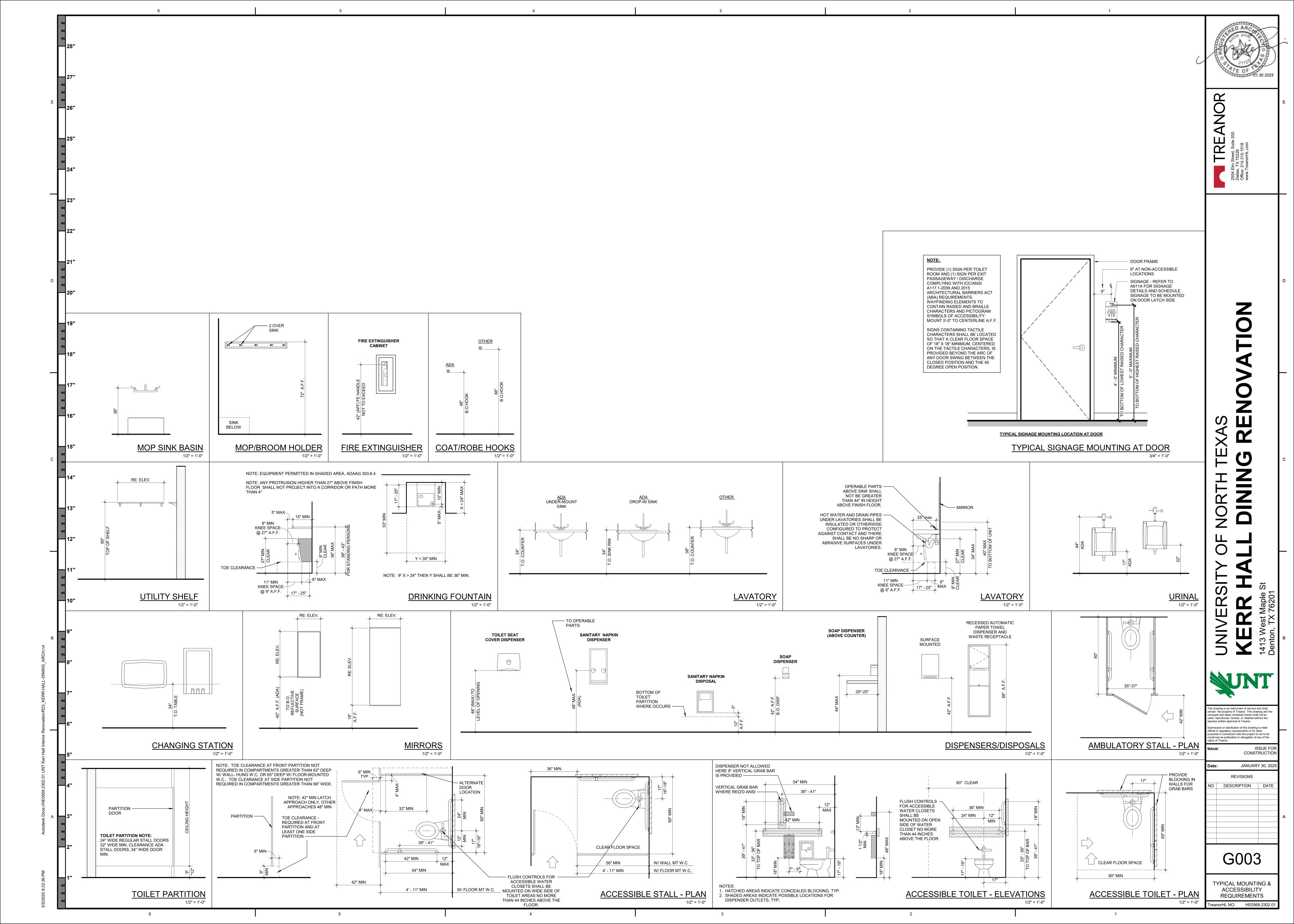


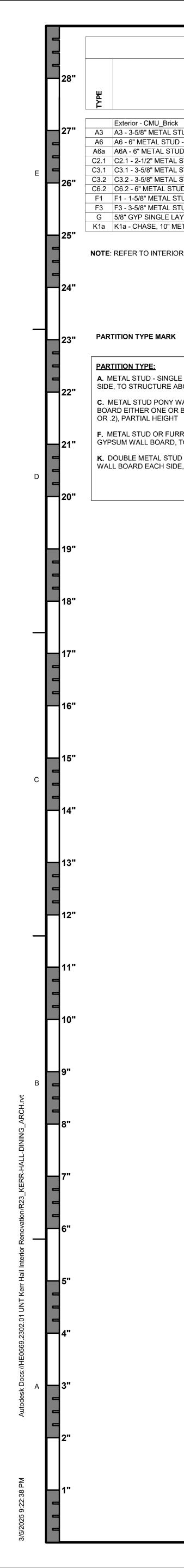


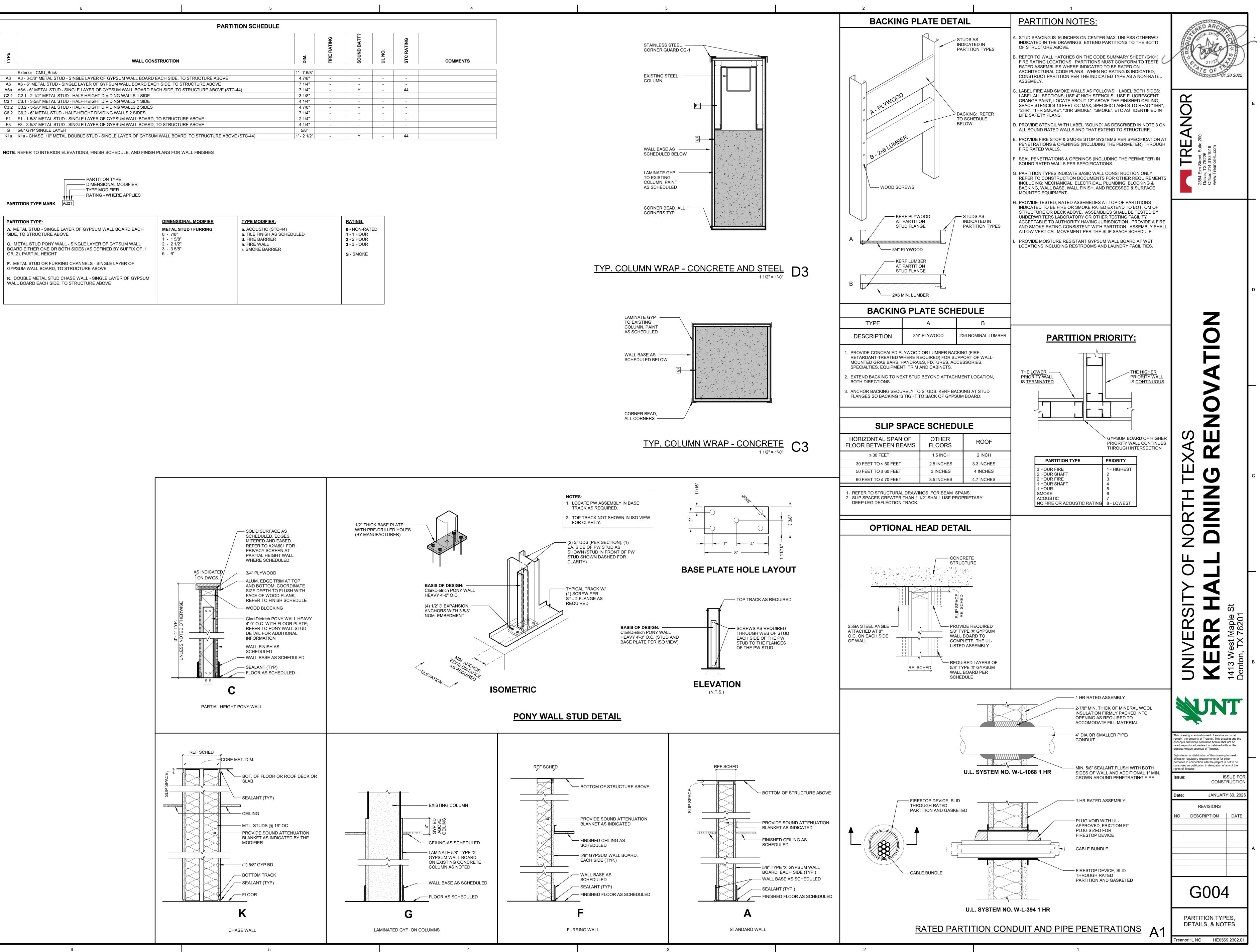
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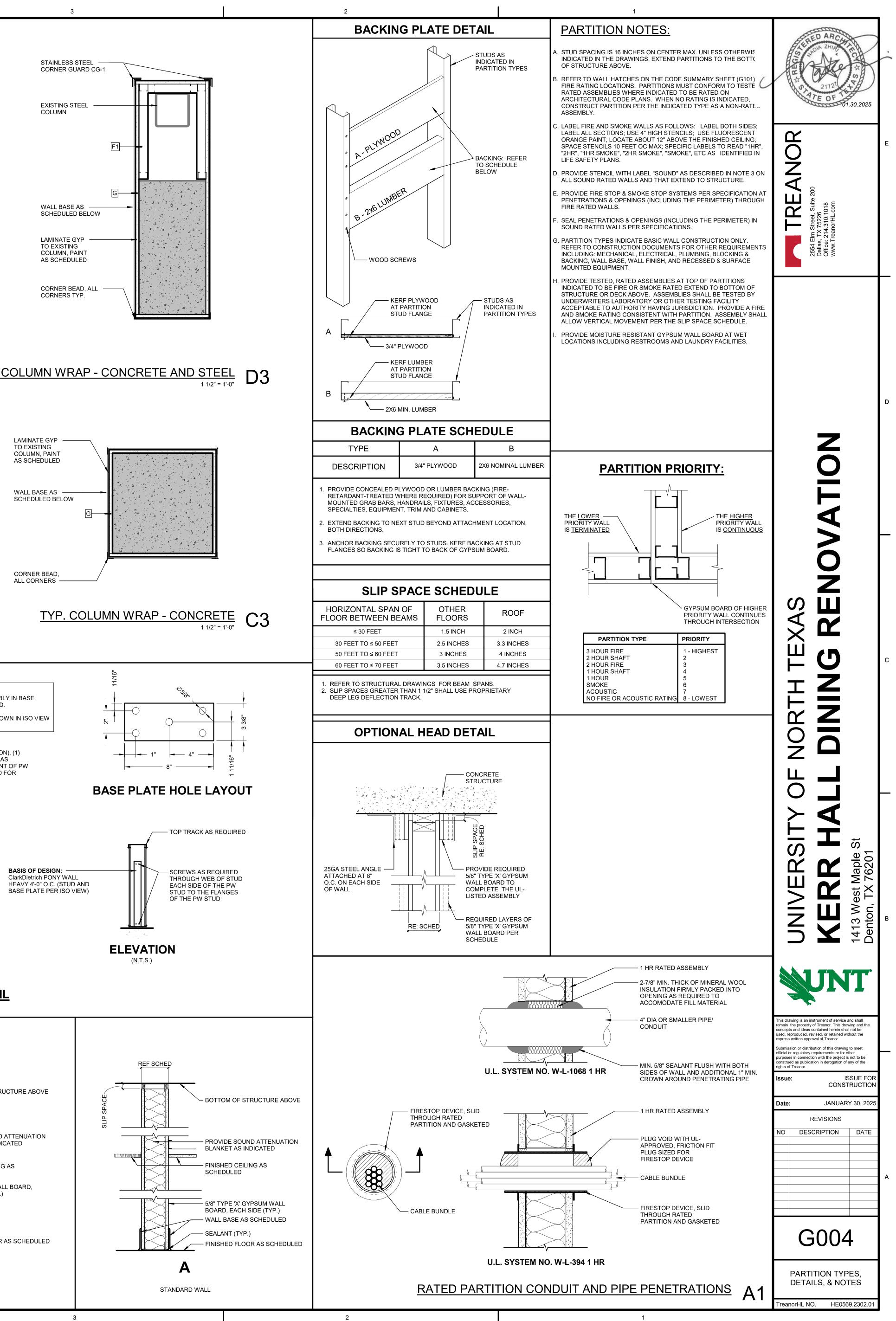
	CONSTRUCTION					
Date	: JANUAR	Y 30, 2025				
	REVISIONS					
NO	DESCRIPTION DATI					
G002						
GENERAL NOTES & ABBREVIATIONS						

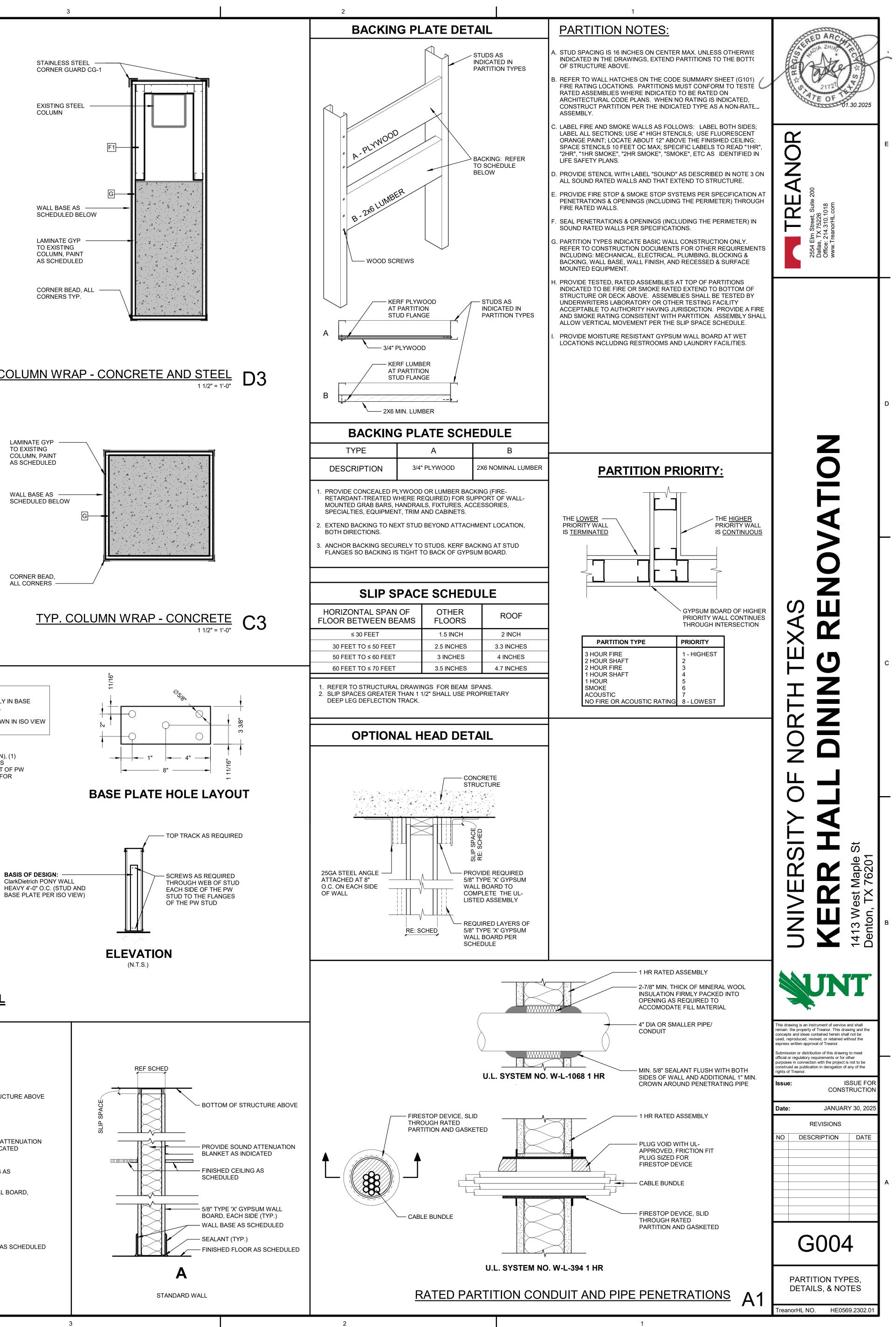
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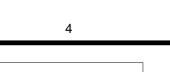


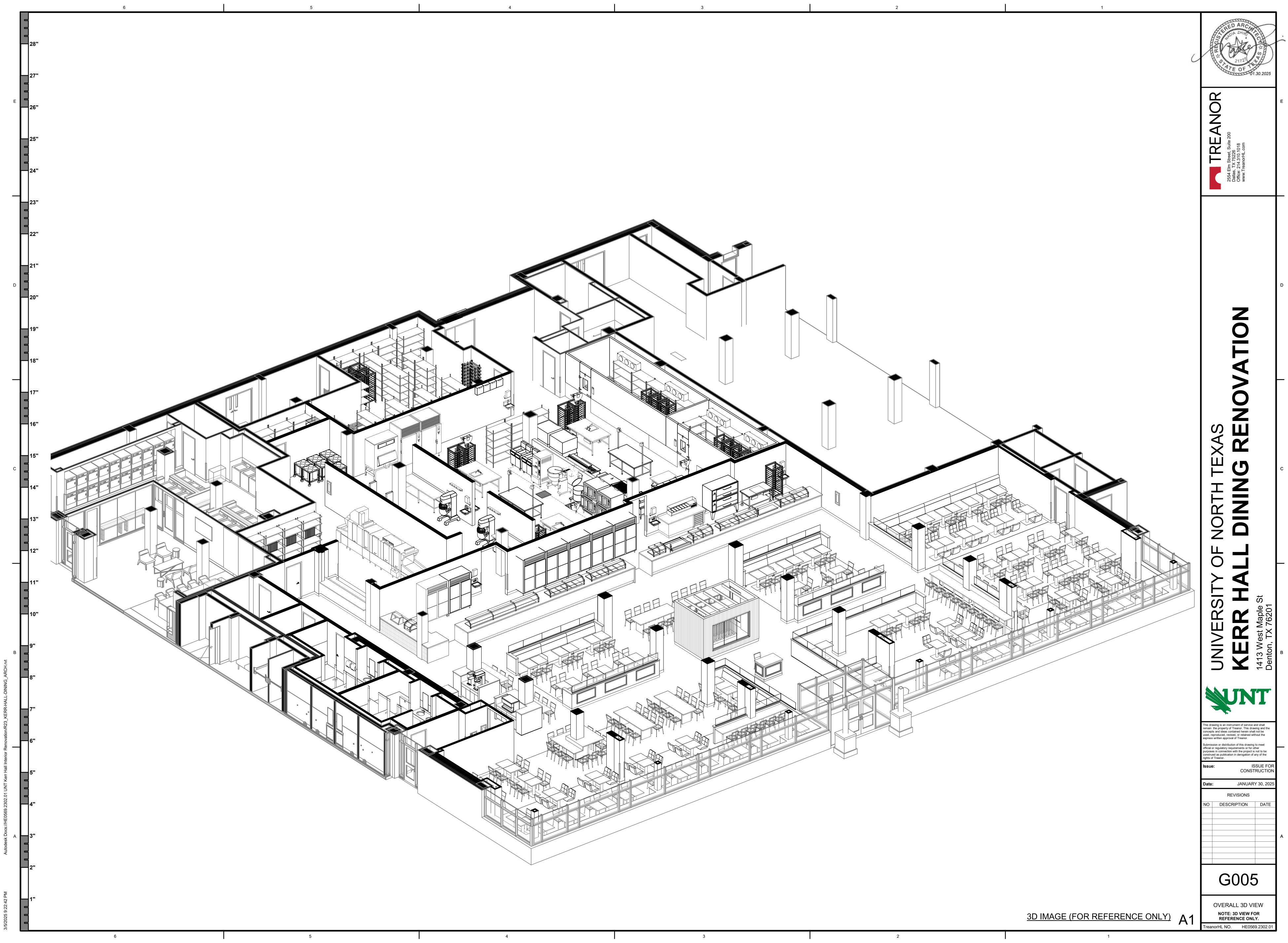


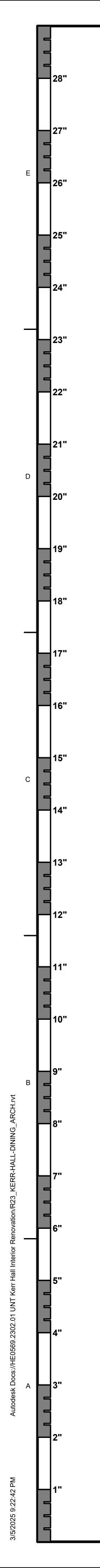


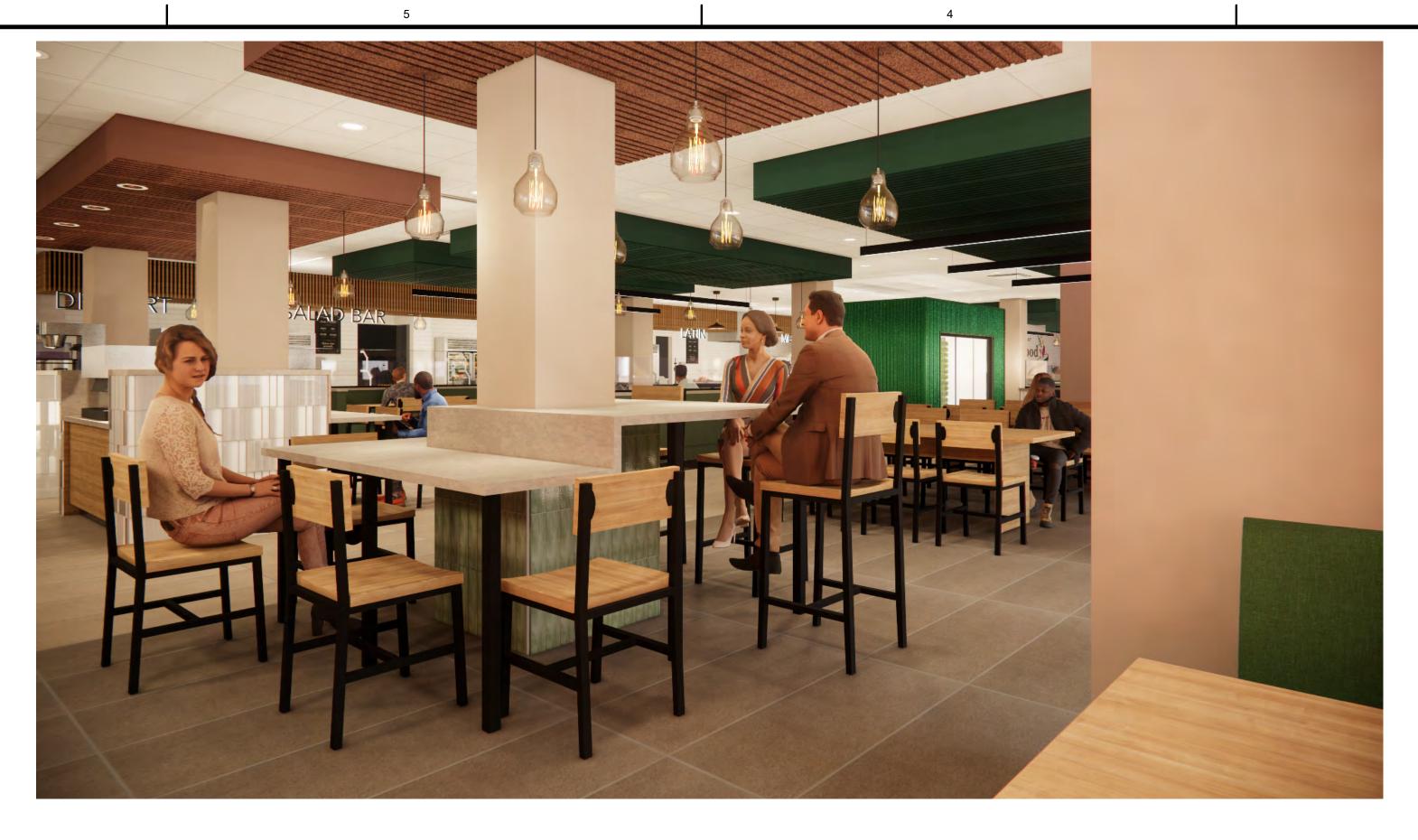










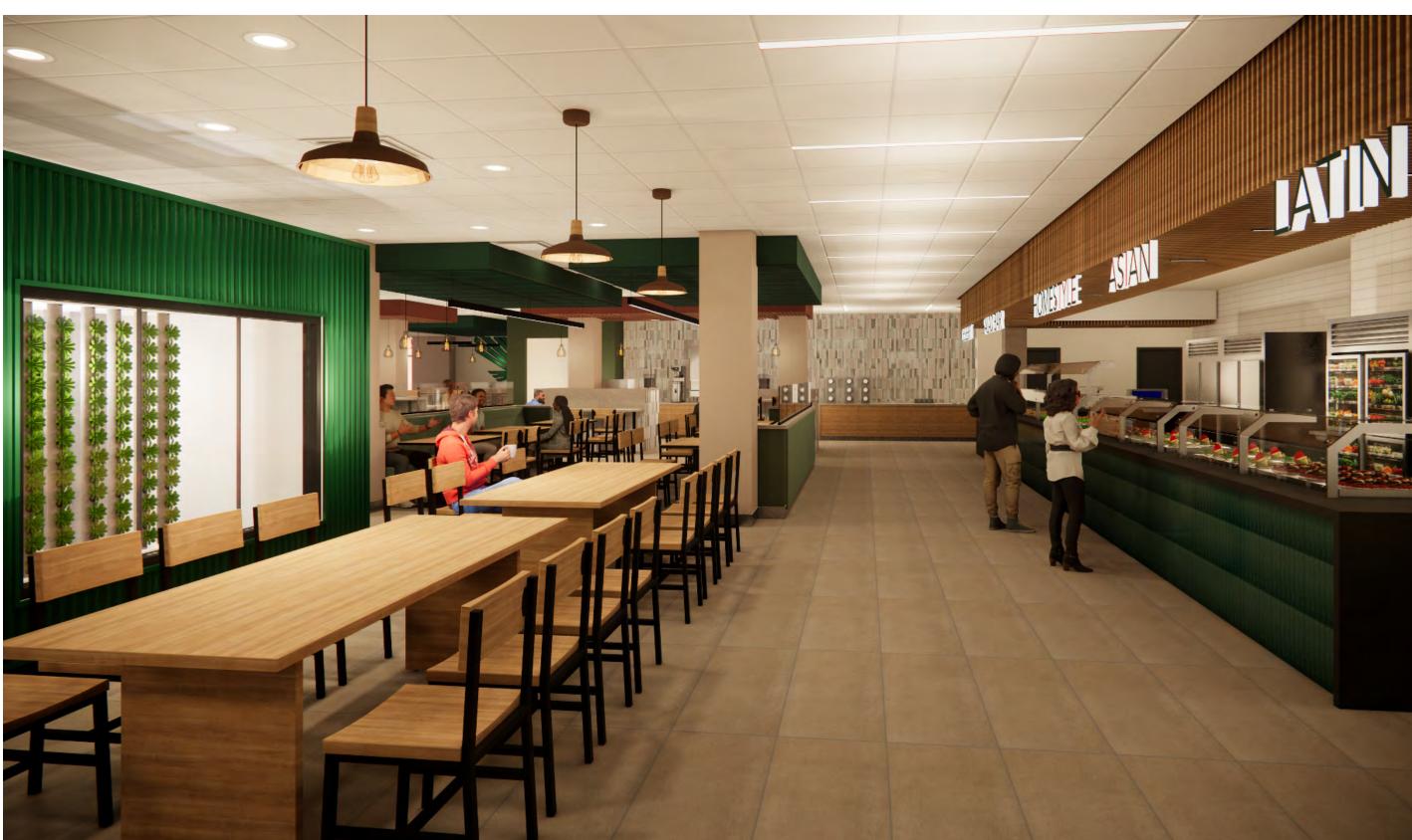






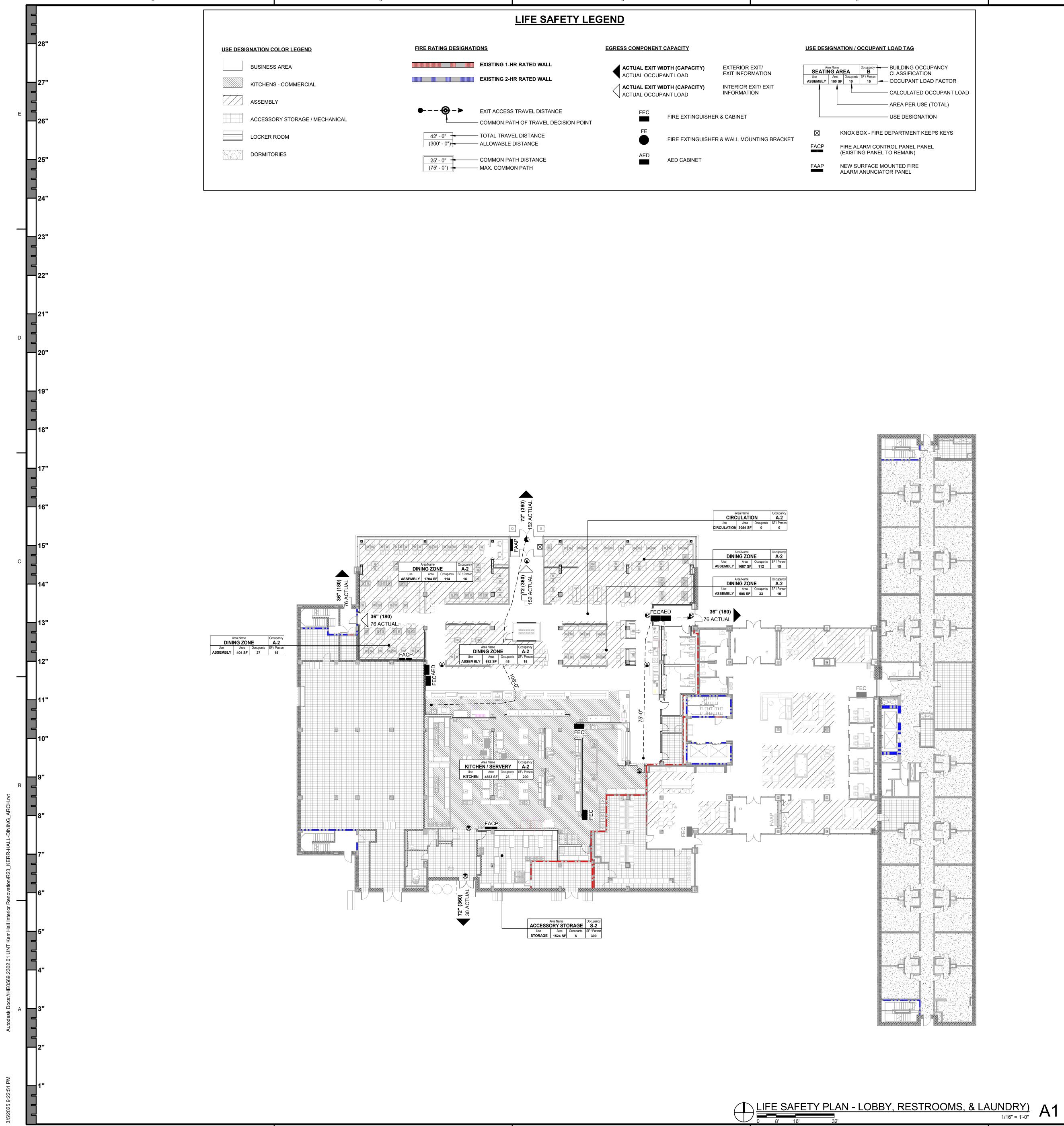






RENDERINGS - FOR REFERENCE ONLY A1





6

3

4

	2	1
	PROJECT CODE SUMMARY	
	PROJECT NAME Kerr Hall Lobby, Restroom, & Laundry Renovation	
	<u>ADDRESS</u> 1413 West Maple St Denton, TX 76201	FEC
D FACTOR CCUPANT LOAD TOTAL)	<u>OWNER</u> University of North Texas	1-HR SEPARATION REQUIRED
DN PS KEYS L	PROJECT DESCRIPTION Full renovation of the existing Kerr Hall Dining facility. The renovation includes improvements to restroom facilities, new kitchen layout and new kitchen equipment. New lighting will be installed throughout the kitchen and dining hall. Dining hall will receive all new finishes and furnishings including a focal point for the Mean Greens Hydroponics display.	
	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 Electrical Code (NEC) 2013 NFPA 72 National Fire Alarm Signaling Code Texas Accessibility Standards (TAS) Americans With Disabilities Act (ADA)	OCCUPANT LOAD CALCULATIONS AREA OCCUPANT LOAD DINING (A-2) 380 LOBBY (B) 169 DORMITORY (R-2) 169
	EXISTING CONSTRUCTION TYPE Type II-B Construction	TOTAL LEVEL 1 OCCUPANT LOAD
	EXISTING FIRE RESISTANCE RATINGS - BUILDING ELEMENTS	/ 10
	Primary Structural Frame1-hrExterior Bearing Walls1-hrInterior Bearing Walls1-hrNonbearing Walls & Partitions0-hrMechanical Shafts1-hrFloor Construction1-hrRoof Construction1-hr	COMMON PATH OF TRAVEL: 100-ft (B Occupancy), 75-ft (A Occupancy) TOTAL TRAVEL DISTANCE: 300-ft (B Occupancy), 250-ft (A Occupancy)
	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 SYSTEMAUTOMATIC SPRINKLER SYSTEMThe building is fully sprinklered.FIRE EXTINGUISHERSProvided throughout per NFPA 10. Maximum travel distance to the nearest fire extinguisher location = 75'-0".	

PLUMBING FIXTURE COUNTS

REQUIRED			WATER CLOSETS		ORIES	DRINKING FOUNTAINS	SERVICE SINKS
SPACE	OCCUPANTS	м	w	М	w	TOUNTAINS	31173
DINING	350	3	3	2	2	2	1
KITCHEN	30	1	1	1	1	1	1

PROVIDED			WATER CLOSETS LAVATORIES DRINKING SERVICE FOUNTAINS SINKS						-
SPACE	OCCUPANTS	М	w	м	w	FOUNTAINS	311173		
DINING	350	3	3	2	2	0**	1		
KITCHEN	30	1*	1*	1*	1*	1	1		

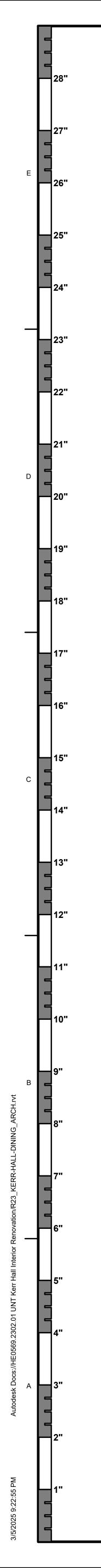
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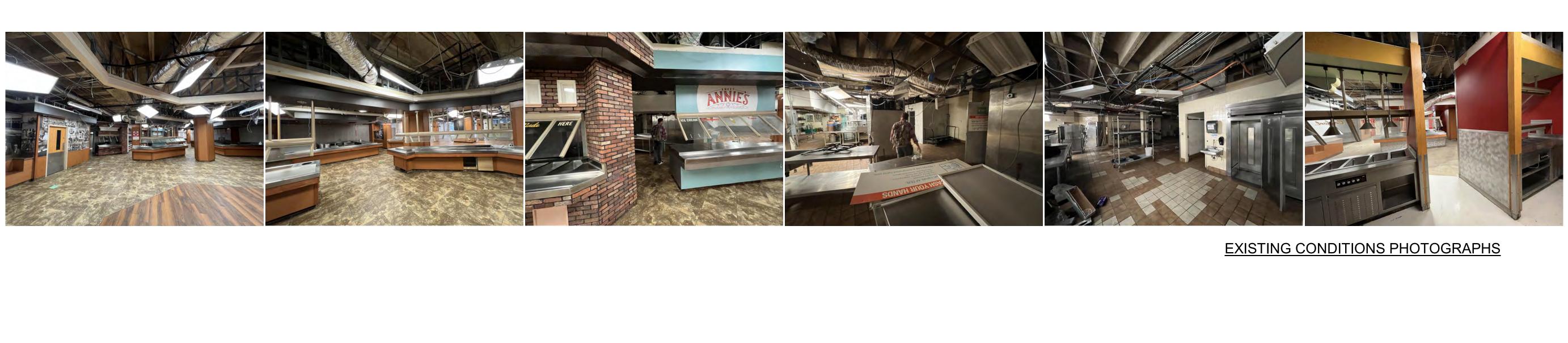
* (1) SINGLE OCCUPANT RESTROOM FOR KITCHEN STAFF USE IS PROVIDED.

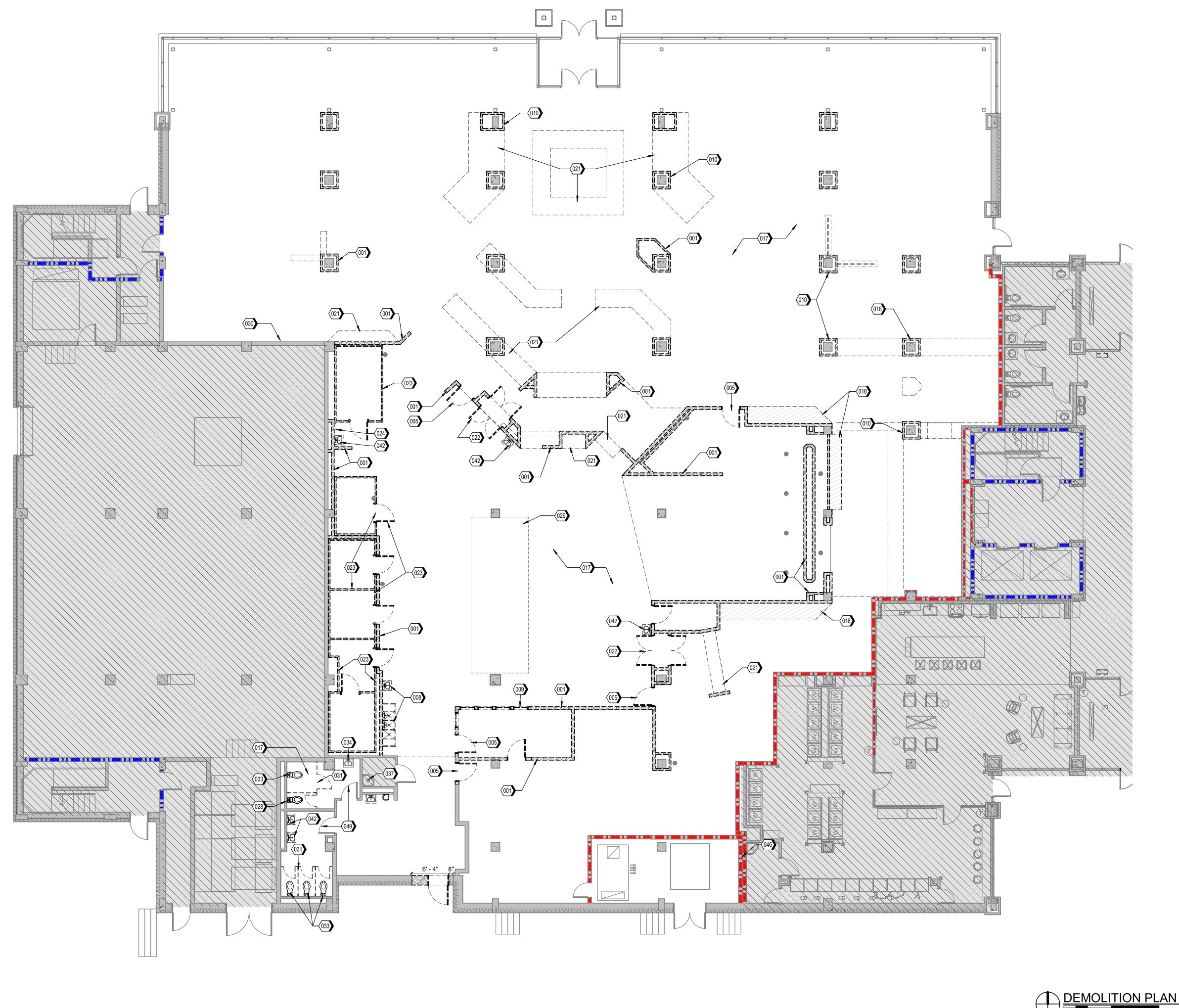
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** PER UNT REQUEST, NO DRINKING FOUNTAINS ARE PROVIDED. THE DINING HALL IS "ALL-YOU-CAN-EAT-AND-DRINK," MAKING THE REQUIREMENT UNNECESSARY.









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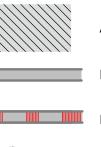
DEMOLITION GENERAL NOTES

- A. DO NOT SCALE DRAWINGS. B. VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING WORK.
- C. RETURN ITEMS TO OWNER WHERE NOTED TO BE SALVAGED, OR IN NEW WORK WITHIN PROJECT SCOPE. DISPOSE OFFSITE PER L REGULATIONS DEMOLITION MATERIALS NOT CLAIMED BY OWNER NOTED TO BE REUSED.
-). PATCH AND REPAIR AREAS AFFECTED BY DEMOLITION AND SHOWN TO REMAIN, FOR NEW SCOPE OF WORK.
- . RETURN REMAINING FURNISHINGS AND EQUIPMENT TO OWNER PRIOR TO DEMOLITION.
- . EXISTING CONDITIONS INFORMATION WAS OBTAINED FROM DOCUMENTS AND INFORMATION SUPPLIED TO THE ARCHITECT. VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- . REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON DRAWINGS. REMOVE ITEMS SHOWN DASHED ON DEMOLITION PLAN UNLESS NOTED OTHERWISE. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN ON SITE, REPAIR THE DAMAGE AT NO COST TO THE OWNER.
- H. 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.
- J. RETURN EXISTING TRASH AND RECYCLING RECEPTACLES TO OWNER. K. THIS DEMOLITION PLAN OUTLINES THE SCOPE OF THE WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. REFER TO 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.
- M. REMOVE TRASH AND DEBRIS FROM THE SITE DAILY. N. MAINTAIN THE INTEGRITY OF EXISTING RATED WALLS AND FIRE SEAL
- PENETRATIONS WITH A U.L. APPROVED ASSEMBLY. O. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED FLUSH
- WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS AND FINISH SMOOTH. P. REFER TO MEP DRAWINGS TO COORDINATE REQUIRED SLAB
- TRENCHING/CONCRETE INFILL TO ACCOMMODATE INSTALLATION AND/OR REPAIRS OF BELOW-SLAB UTILITIES. Q. REMOVE REMAINING CEILING AND WALL ELEMENTS, INCLUDING BUT NOT LIMITED TO CEILING GRID, CEILING TILE, GYPSUM SOFFITS / BULKHEADS, ABANDONED MECHANICAL DUCTWORK AND EQUIPMENT,
- ABANDONED ELECTRICAL CONDUITS AND LIGHT FIXTURES, ABANDONED PIPING, AND ASSOCIATED WORK NOT SHOWN OR REQUIRED TO MAINTAIN. REFER TO MEP DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
- R. SAWCUT AND REMOVE PORTIONS OF CONCRETE FLOOR SLAB FOR INSTALLATION OF UNDERFLOOR PLUMBING LINES, AND FOR INSTALLATION OF RECESSED SLAB AT WALK-IN COOLER AND FREEZER, AND REPLACE/PATCH SLAB FOLLOWING INSTALLATION OF THOSE ITEMS.

> <u>KEYNOTES</u>

001	REMOVE EXISTING WALLS AND WALL BASE
005	REMOVE EXISTING DOOR AND FRAMES
800	REMOVE EXISTING CASEWORK, SINK AND ASSOCIATED PLUMBING; REFER TO PLUMBING
009	REMOVE EXISTING INTERIOR WINDOWS AND FRAMES
010	REMOVE EXISTING WOOD COLUMN WRAPS, TYPICAL; EXISTING CAST-IN-PLACE COLUMNS TO REMAIN
)17	REMOVE EXISTING FLOORING, PREP SUBFLOOR FOR NEW FLOOR FINISH
018	REMOVE EXISTING CASEWORK / MILLWORK
)21	REMOVE EXISTING SERVING EQUIPMENT AND ASSOCIATED COMPONENTS, TYPICAL
)22	REMOVE EXISTING PASS-THROUGH FREEZER, DOORS, AND ASSOCIATED COMPONENTS
)23	REMOVE EXISTING COOLERS AND FREEZERS; PREP FOR INSTALL OF NEW EQUIPMENT. INFILL/PREP WARPED SLAB AT EXISTING FREEZER DOORS TO BE REMOVED.
)24	REMOVE EXISTING EYE WASH; REFER TO PLUMBING FOR ADDITIONAL SCOPE
)28	EXISTING FLOOR-MOUNTED TOILET TO REMAIN
)29	REMOVE EXISTING EXHAUST HOOD AND PREPARE EXISTING OVERHEAD DUCT CHASE FOR INSTALLATION OF NEW EXHAUST HOOD; REFER TO MECHANICAL
030	EXISTING LIGHTING CONTROL PANEL TO REMAIN, PROTECT FROM DAMAGE
031	REMOVE EXISTING TOILET PARTITION
033	REMOVE EXISTING FLOOR-MOUNTED TOILET, REFER TO PLUMBING
)34	EXISTING WALL-MOUNTED SINK TO REMAIN
)37	EXISTING MOP SINK TO REMAIN
)42	REMOVE EXISTING WALL MOUNTED SINK
046	EXISTING BRICK TO REMAIN
)49	EXISTING DOOR & FRAME TO REMAIN; REFER TO DOOR SCHEDULE FOR EXTENT OF SCOPE IN THIS AREA

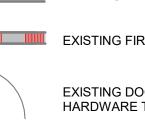
DEMOLITION	LEGEND



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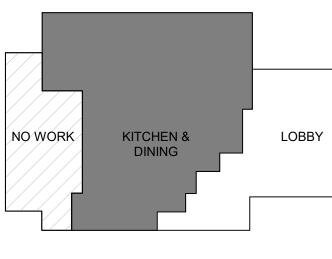
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AREAS NOT IN SCOPE



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



DEMOLITION PLAN (KITCHEN & DINING) 1/8" = 1'-0"
A1

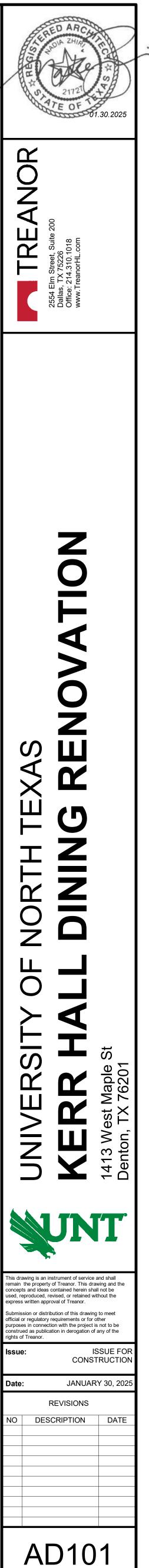
) 4' 8'

2

KEY PLAN

EXISTING WALL TO REMAIN; PROTECT IN PLACE

NO /WÓRK/



DEMOLITION PLAN

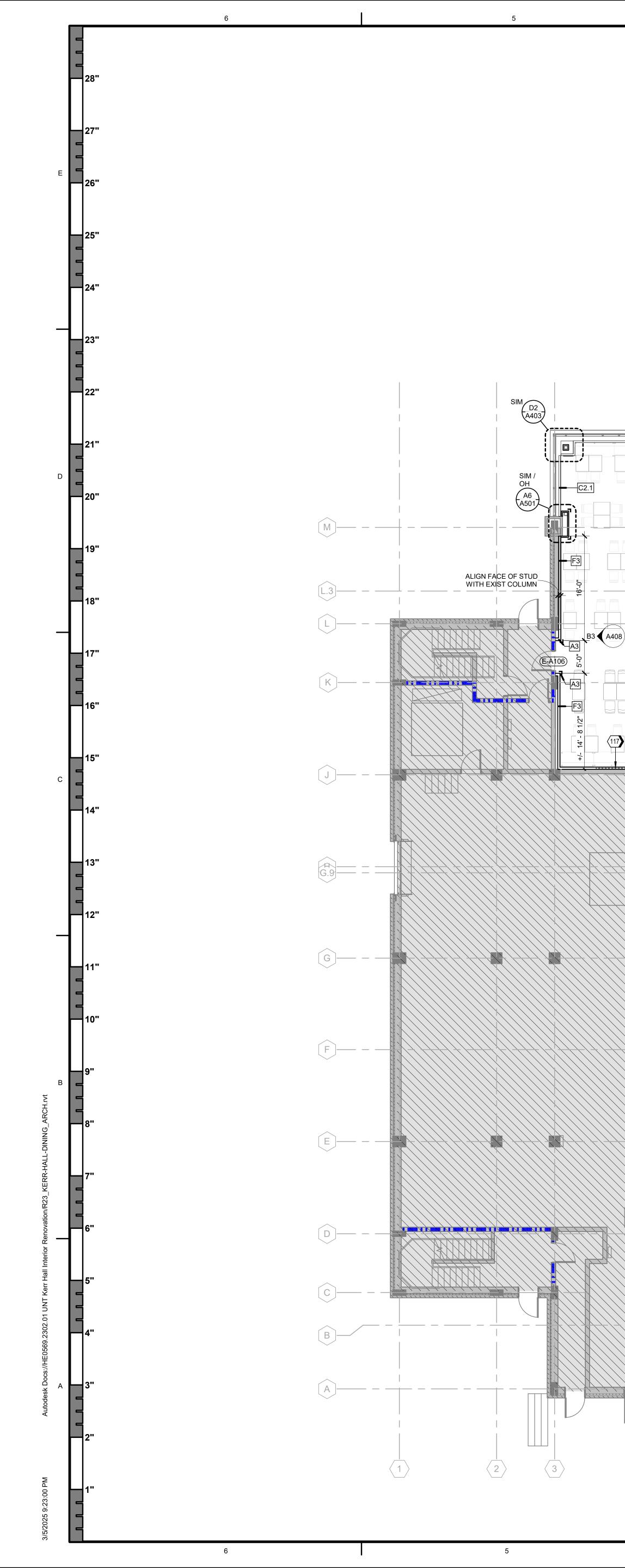
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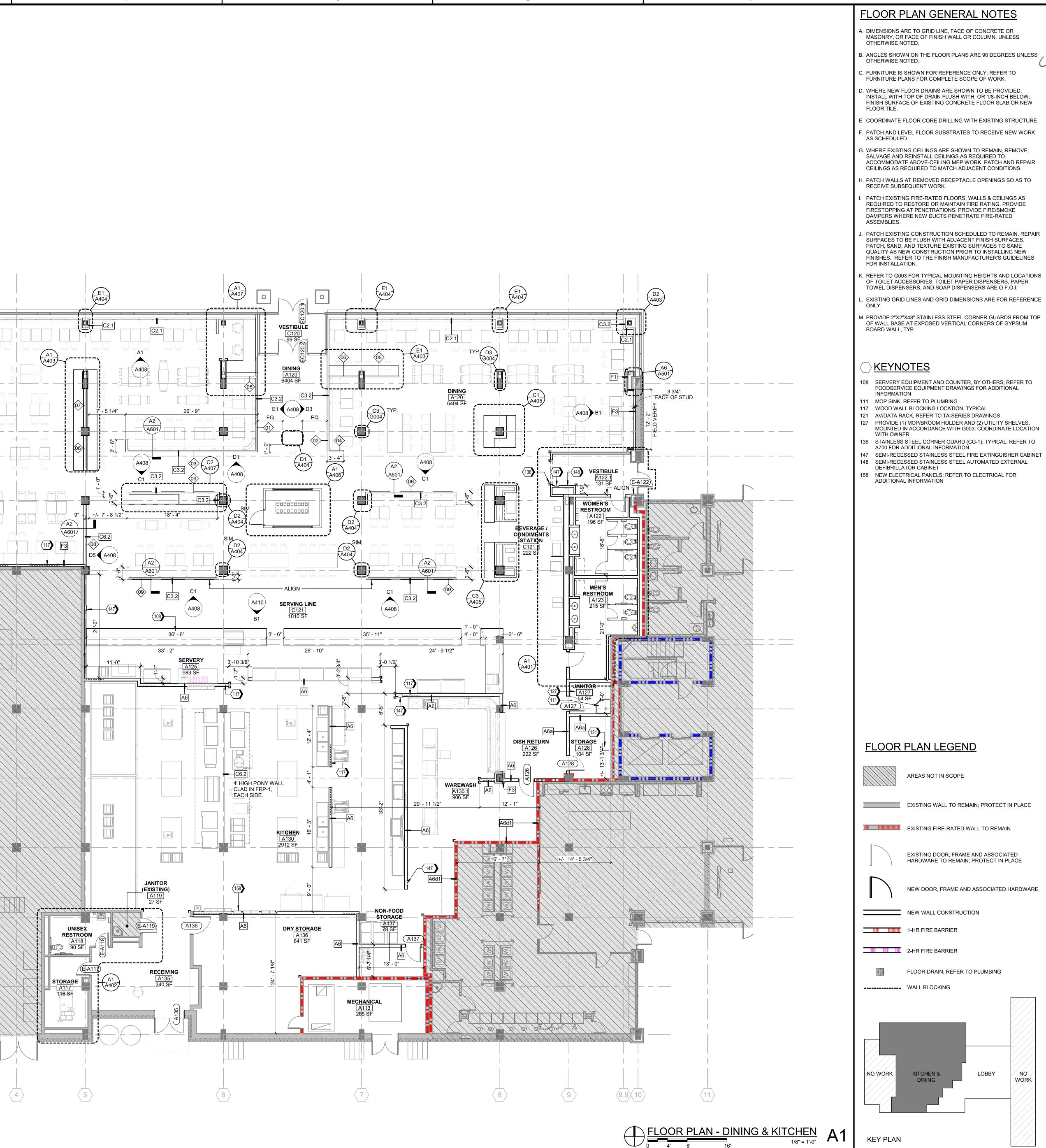




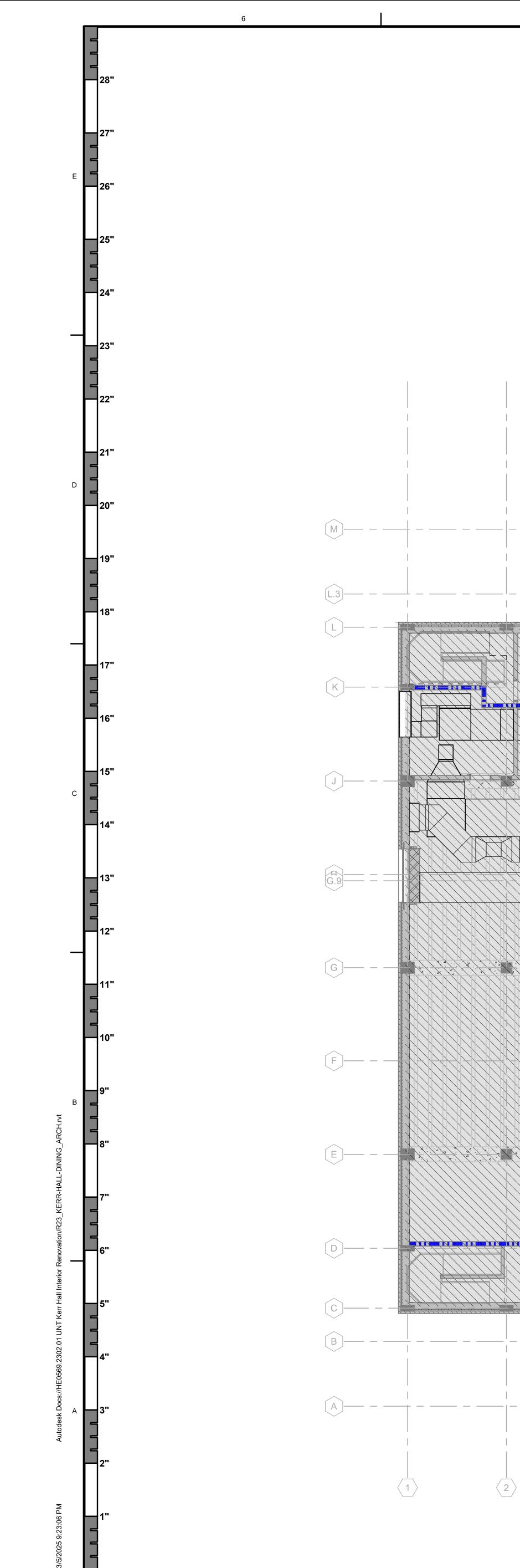
BY	NO WORK

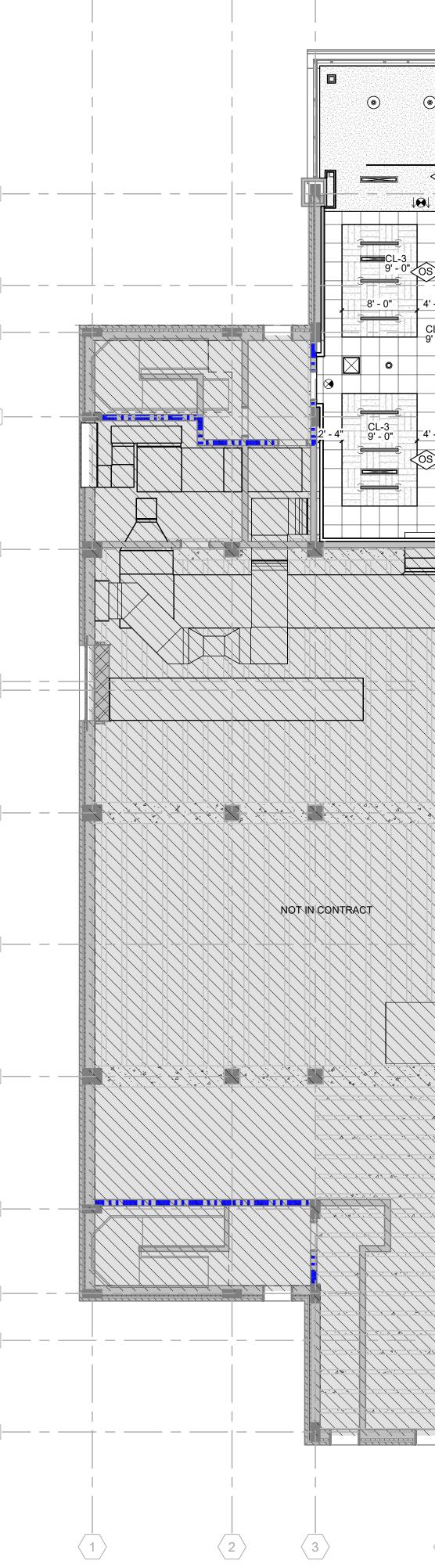










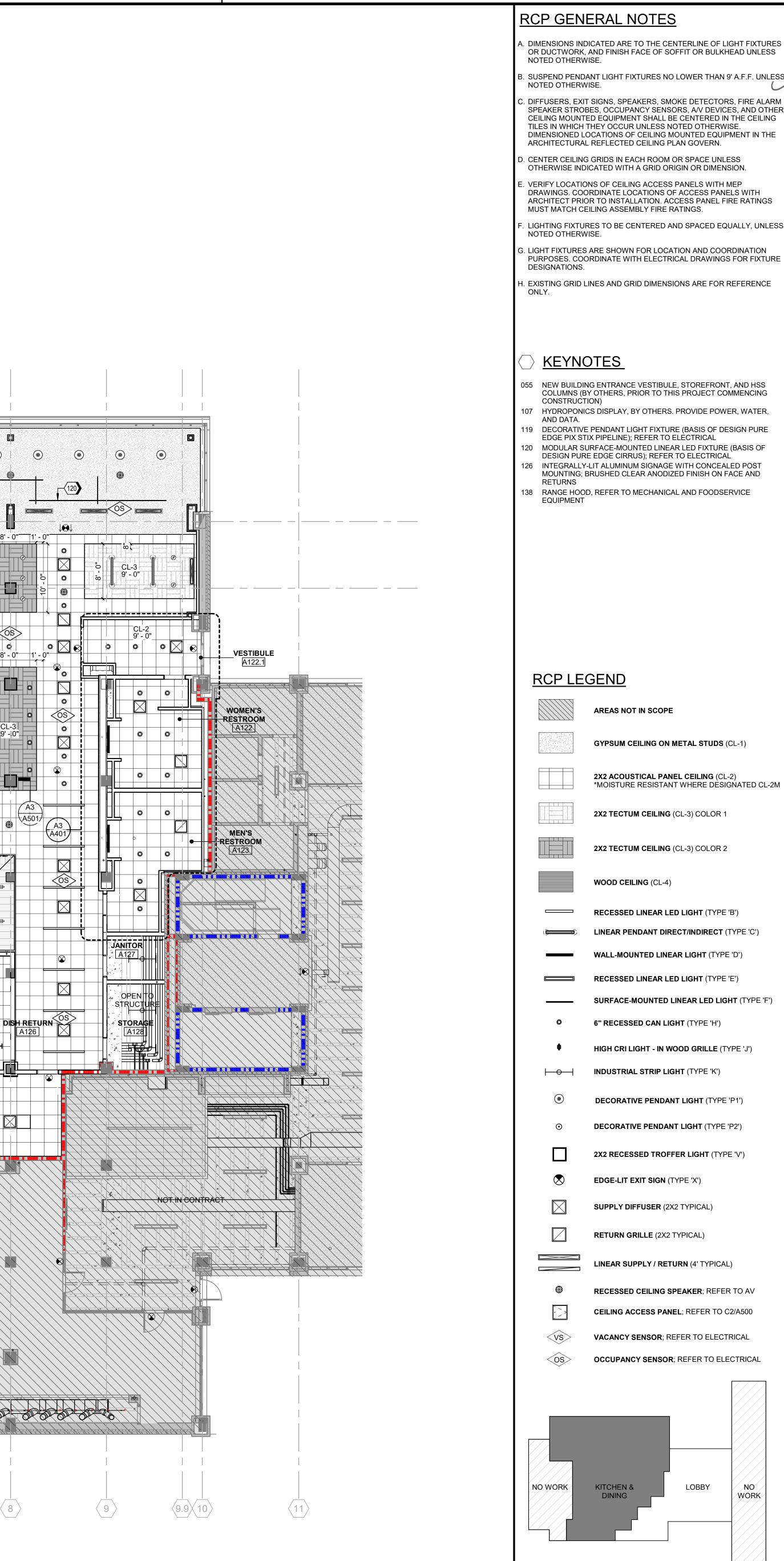


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B5	INTEGRALLY LIT EXTERIOR S MOUNTED TO STEEL STRUC		
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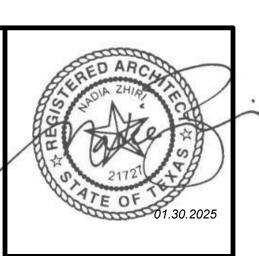


REFLECTED CEILING PLAN (DINING) 1/8" = 1'-0" A1

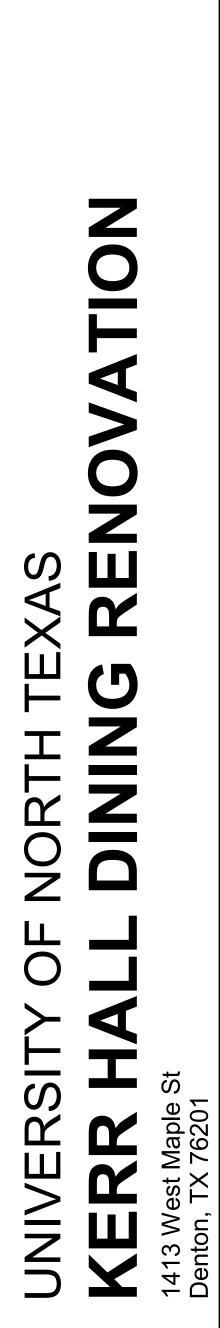
2

KEY PLAN

	////
	/ / / /
BY	NO
BY	NO WORK
BY	NO WÓRK



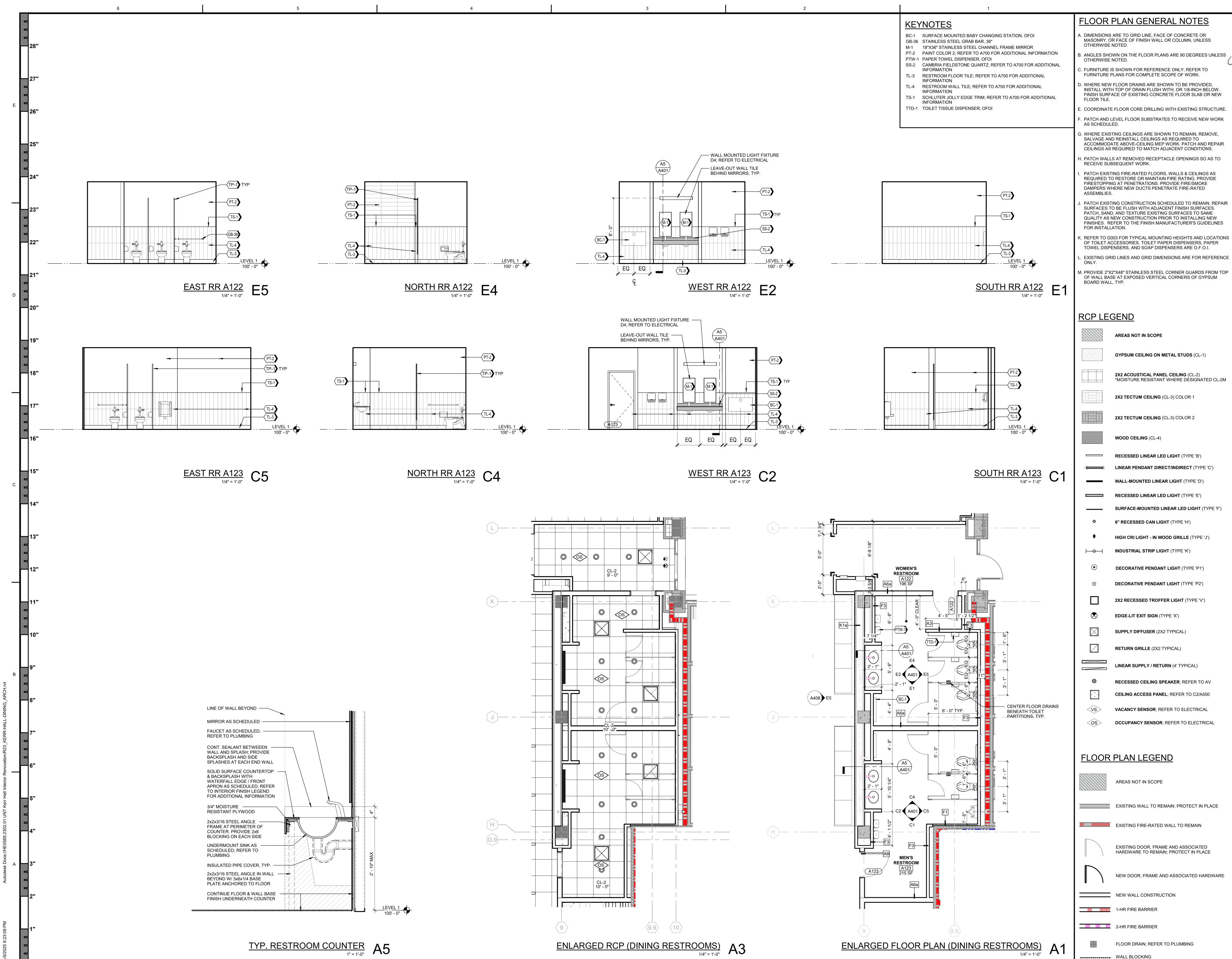


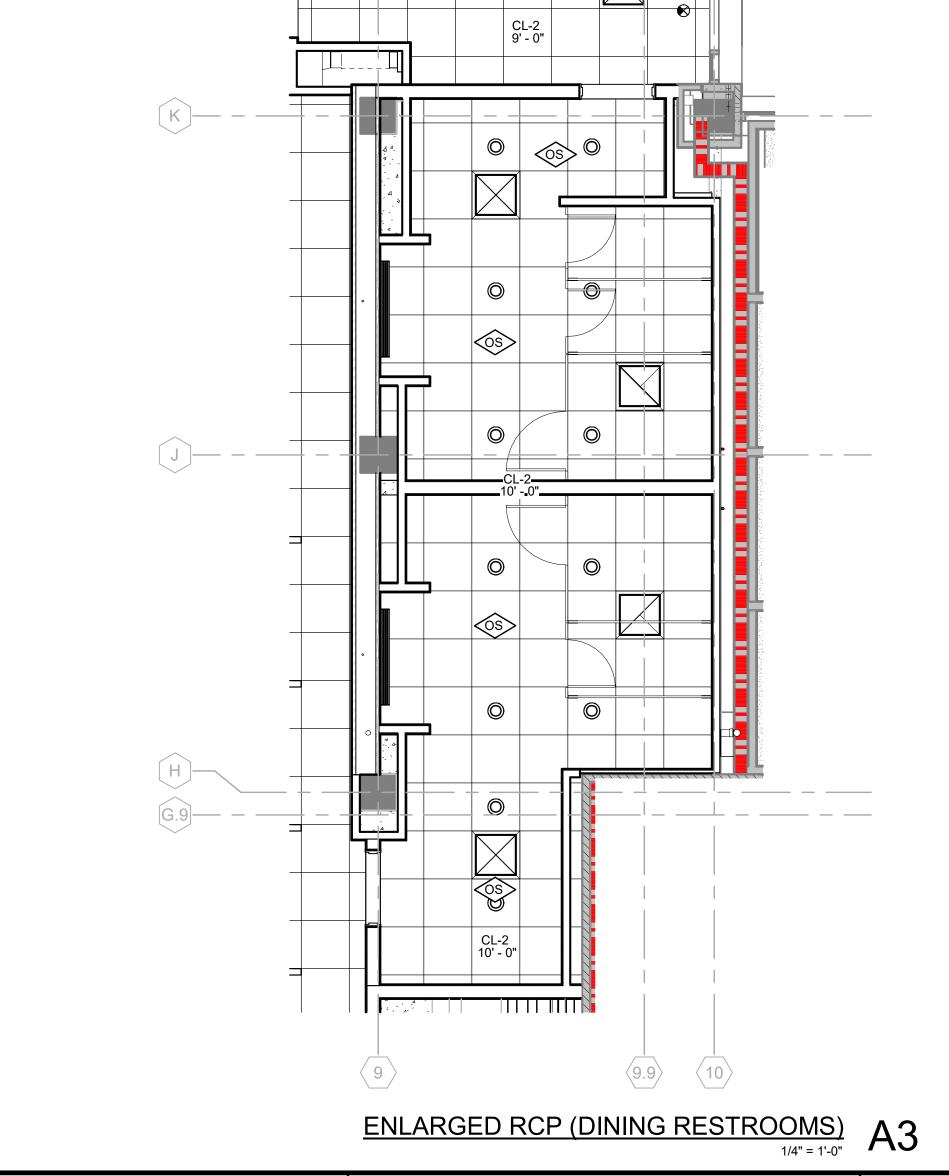


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•						
lssue		ISSUE FOR CONSTRUCTION				
Date	: JANUAR	JANUARY 30, 2025				
	REVISIONS					
NO	DESCRIPTION	DATE				
A151						
F	REFLECTED CEIL PLAN (KITCHEN DINING)					

TreanorHL NO. HE0569.2302.01

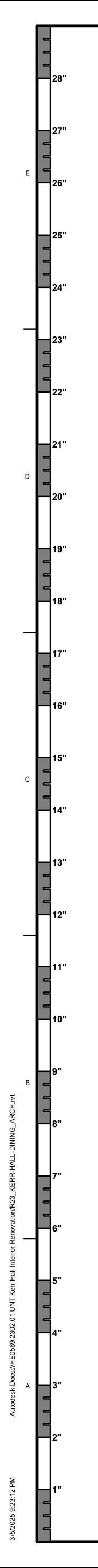


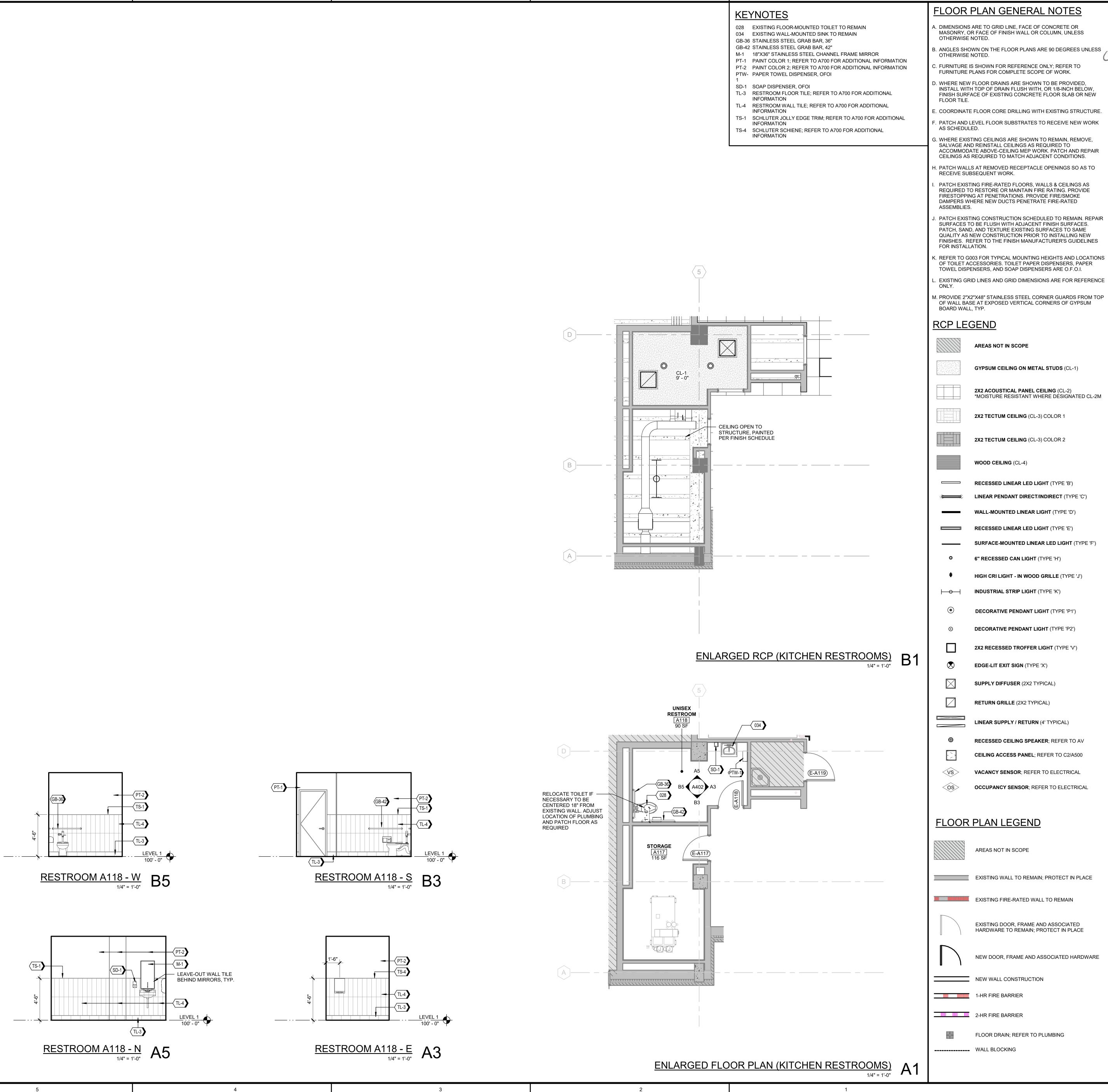


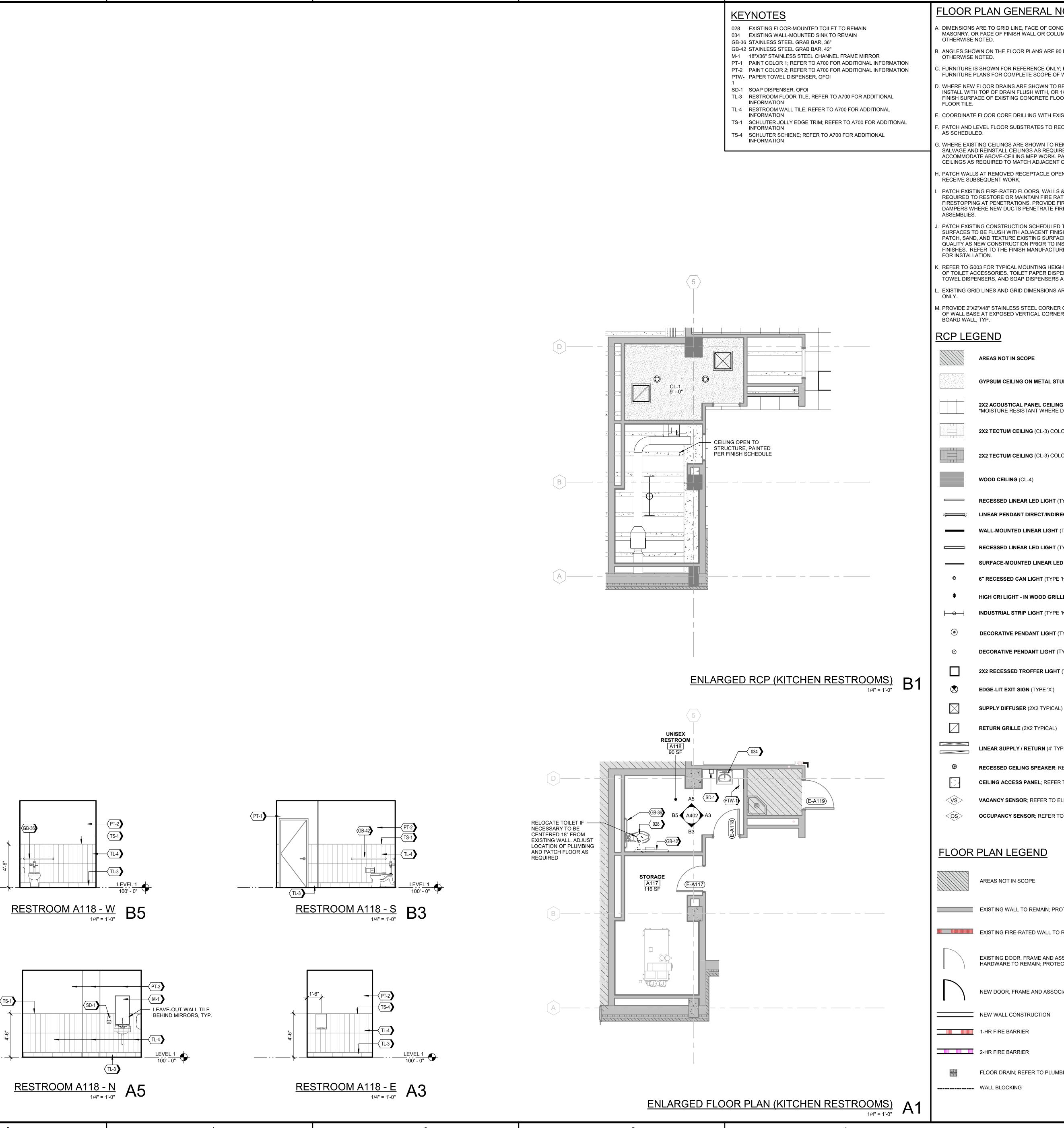


INTERIOR ELEVATIONS TreanorHL NO. HE0569.2302.07

ENLARGED PLANS &

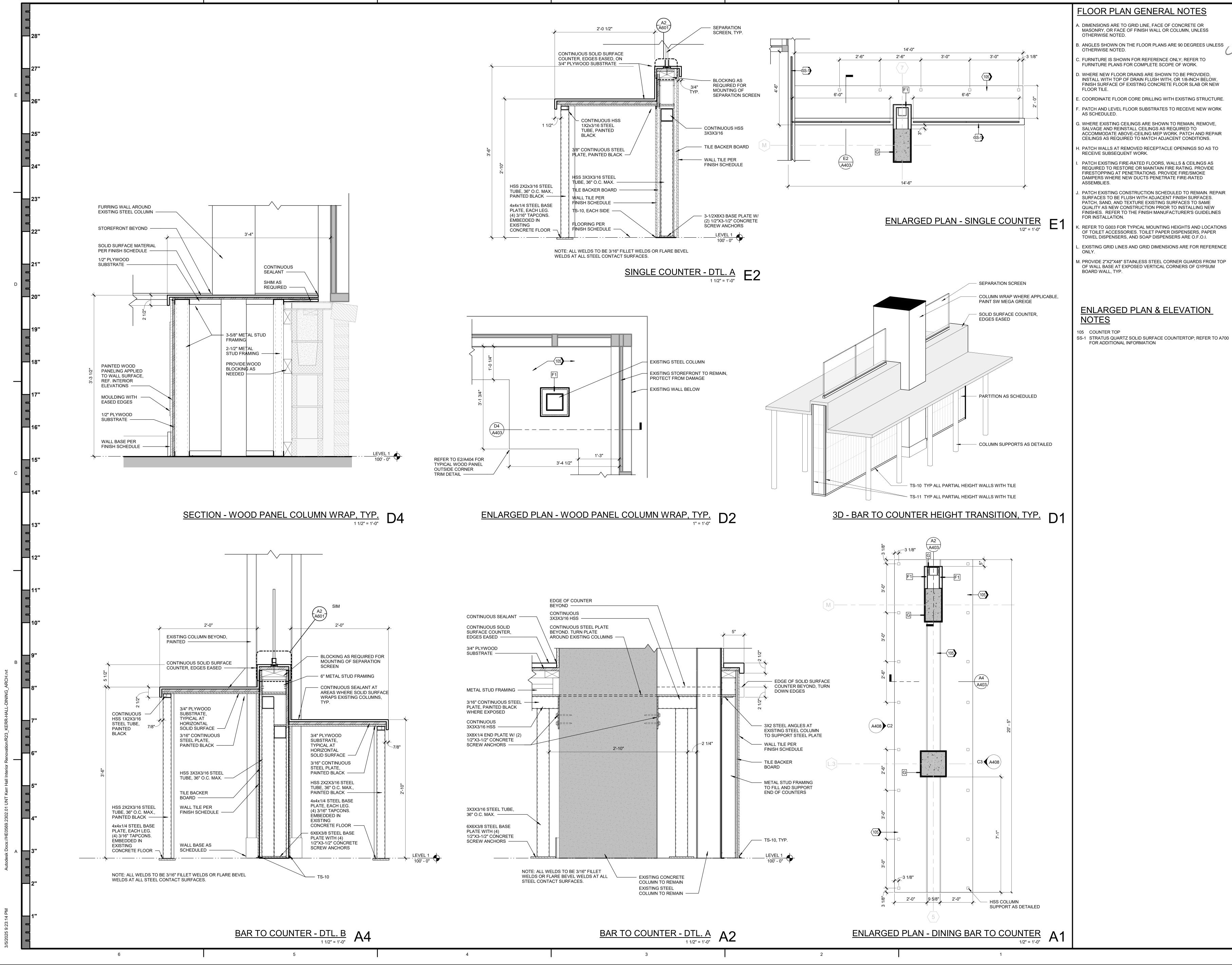


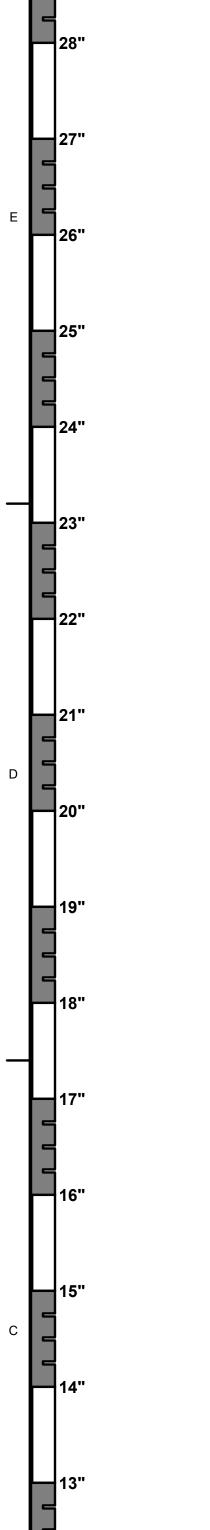




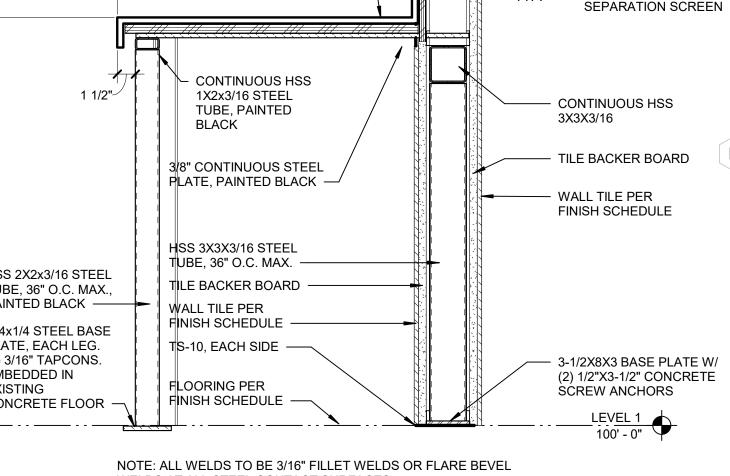
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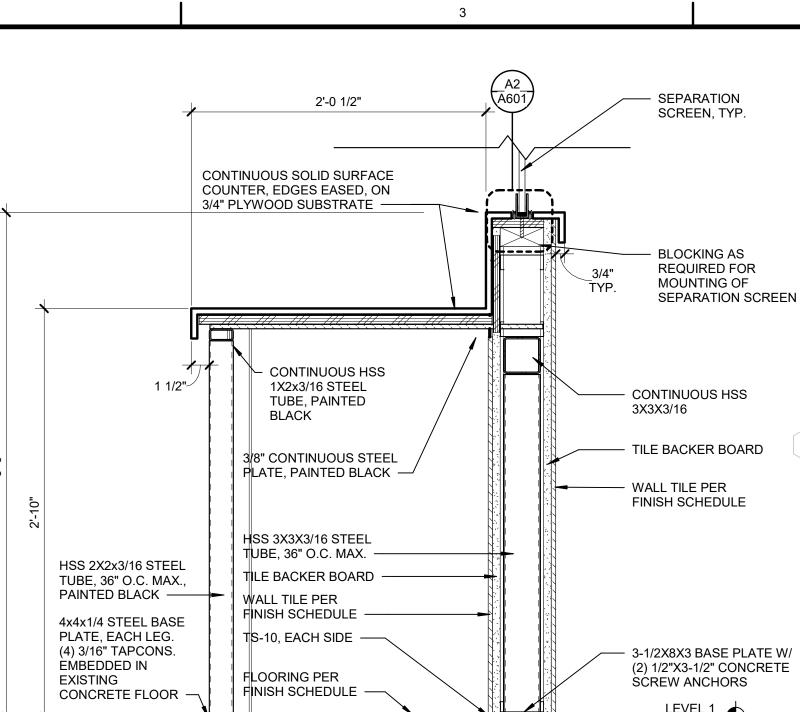




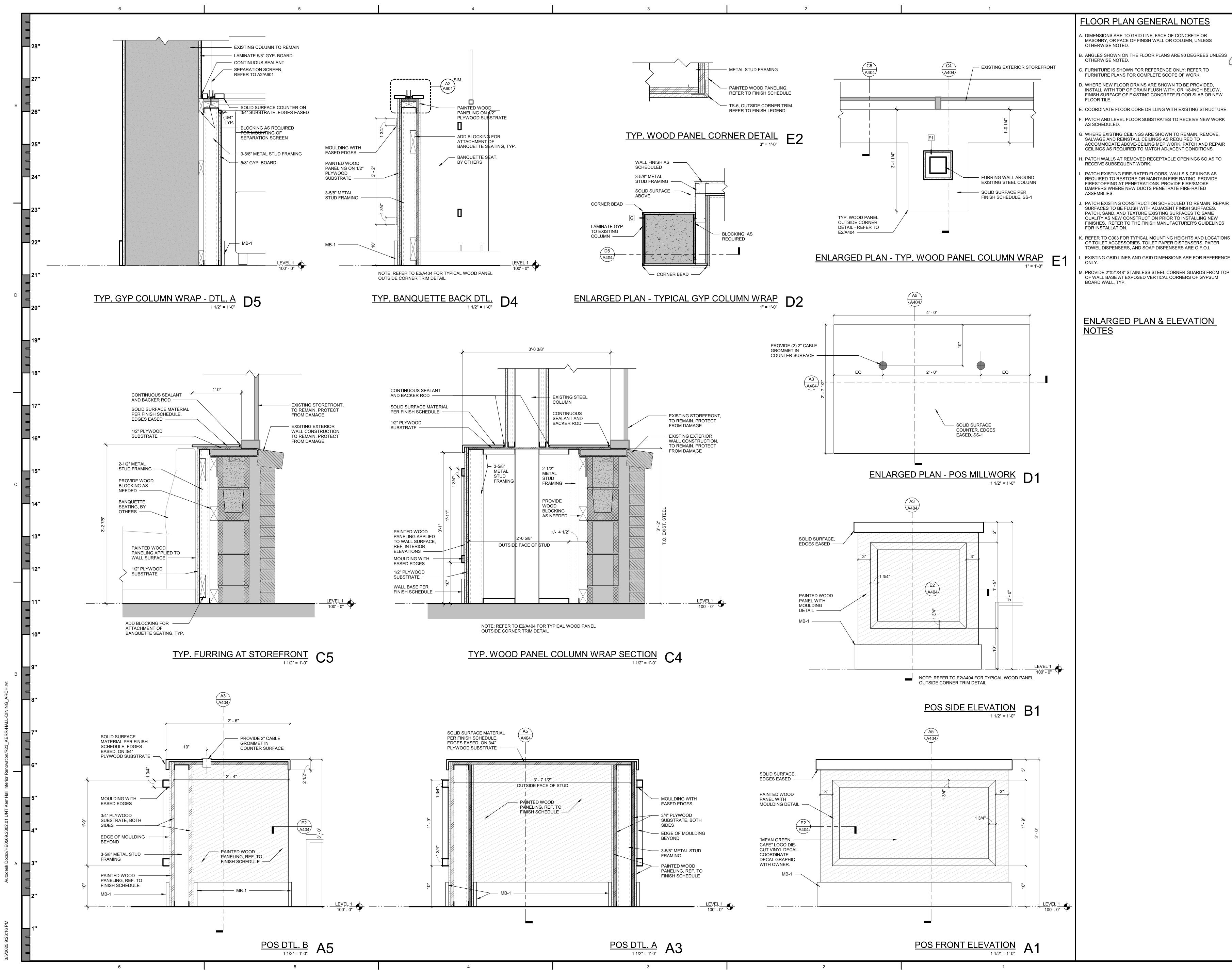




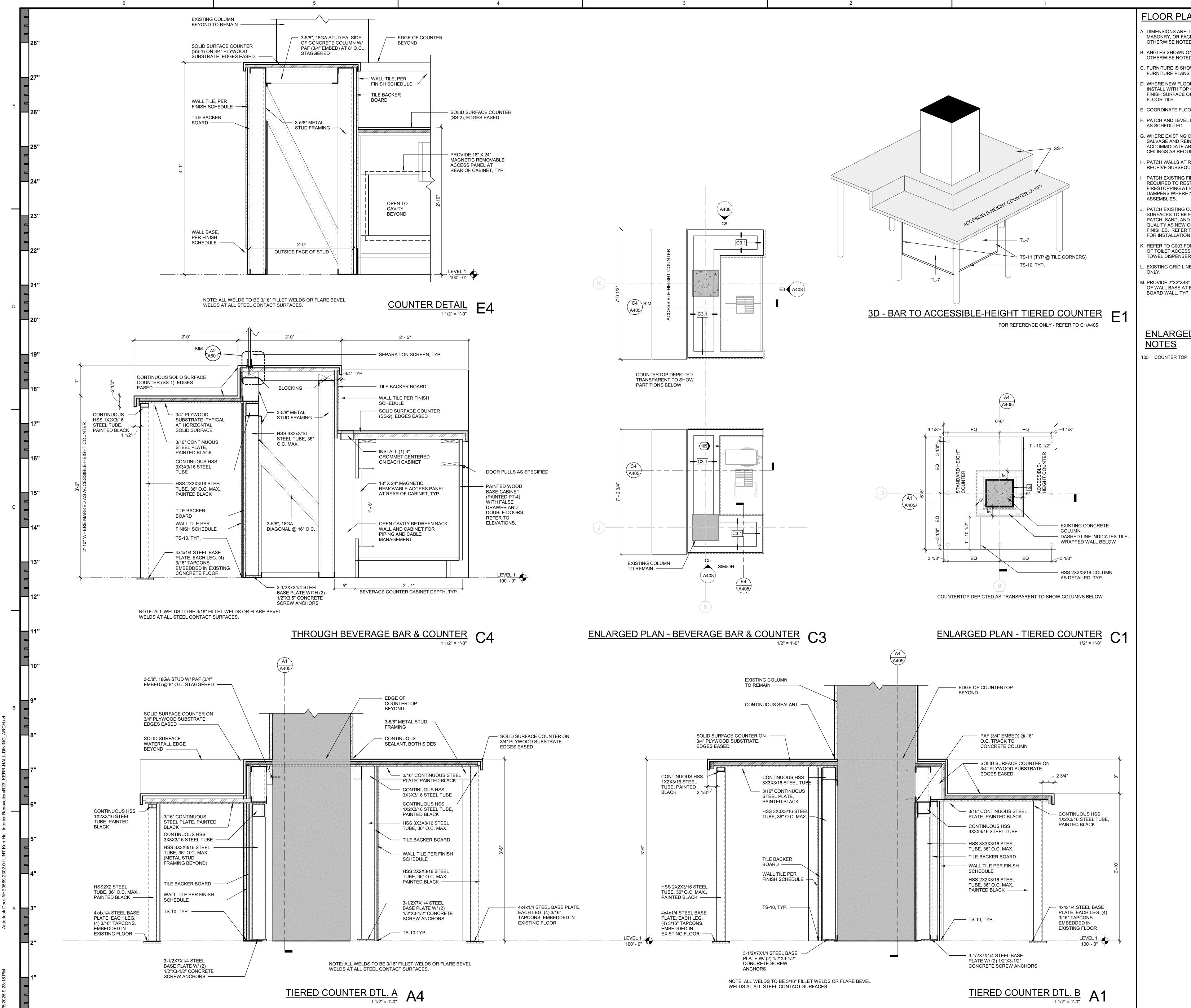












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FLOOR PLAN GENERAL NOTES

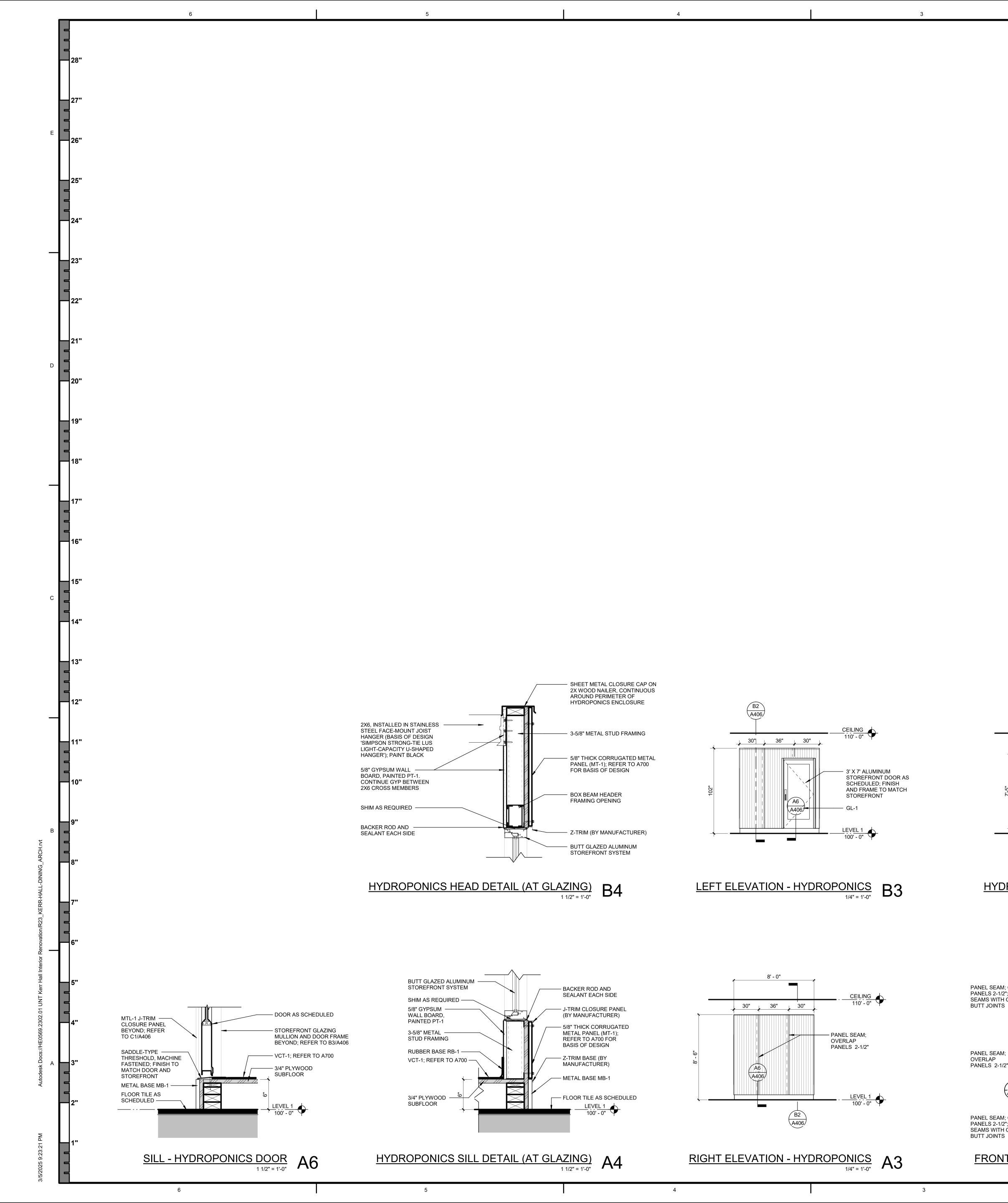
- A. DIMENSIONS ARE TO GRID LINE, FACE OF CONCRETE OR MASONRY, OR FACE OF FINISH WALL OR COLUMN, UNLESS OTHERWISE NOTED.
- B. ANGLES SHOWN ON THE FLOOR PLANS ARE 90 DEGREES UNLESS
- OTHERWISE NOTED.
- C. FURNITURE IS SHOWN FOR REFERENCE ONLY; REFER TO FURNITURE PLANS FOR COMPLETE SCOPE OF WORK. D. WHERE NEW FLOOR DRAINS ARE SHOWN TO BE PROVIDED, INSTALL WITH TOP OF DRAIN FLUSH WITH, OR 1/8-INCH BELOW, FINISH SURFACE OF EXISTING CONCRETE FLOOR SLAB OR NEW
- FLOOR TILE. E. COORDINATE FLOOR CORE DRILLING WITH EXISTING STRUCTURE.
- F. PATCH AND LEVEL FLOOR SUBSTRATES TO RECEIVE NEW WORK AS SCHEDULED. G. WHERE EXISTING CEILINGS ARE SHOWN TO REMAIN, REMOVE,
- SALVAGE AND REINSTALL CEILINGS AS REQUIRED TO ACCOMMODATE ABOVE-CEILING MEP WORK. PATCH AND REPAIR CEILINGS AS REQUIRED TO MATCH ADJACENT CONDITIONS.
- H. PATCH WALLS AT REMOVED RECEPTACLE OPENINGS SO AS TO RECEIVE SUBSEQUENT WORK.
- . PATCH EXISTING FIRE-RATED FLOORS, WALLS & CEILINGS AS REQUIRED TO RESTORE OR MAINTAIN FIRE RATING. PROVIDE FIRESTOPPING AT PENETRATIONS. PROVIDE FIRE/SMOKE DAMPERS WHERE NEW DUCTS PENETRATE FIRE-RATED ASSEMBLIES.
- J. PATCH EXISTING CONSTRUCTION SCHEDULED TO REMAIN. REPAIR 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.
- 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.
- .. EXISTING GRID LINES AND GRID DIMENSIONS ARE FOR REFERENCE ONLY. M. PROVIDE 2"X2"X48" STAINLESS STEEL CORNER GUARDS FROM TOP

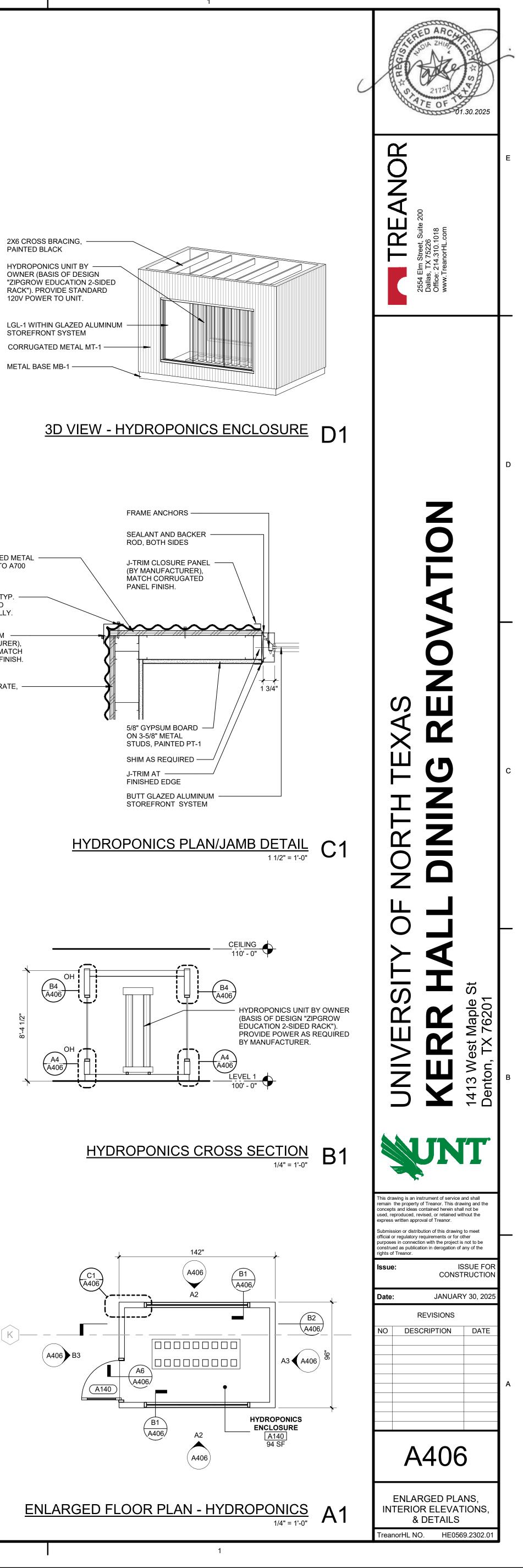
ENLARGED PLAN & ELEVATION <u>NOTES</u>

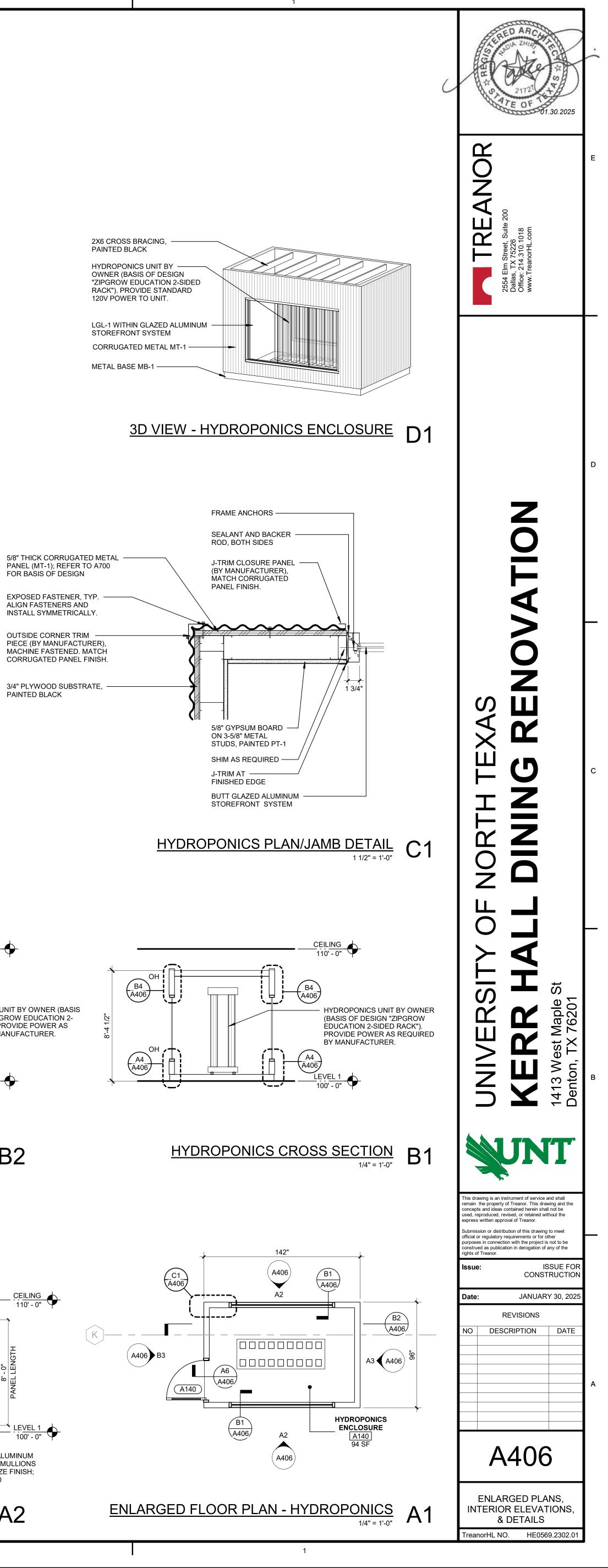
105 COUNTER TOP

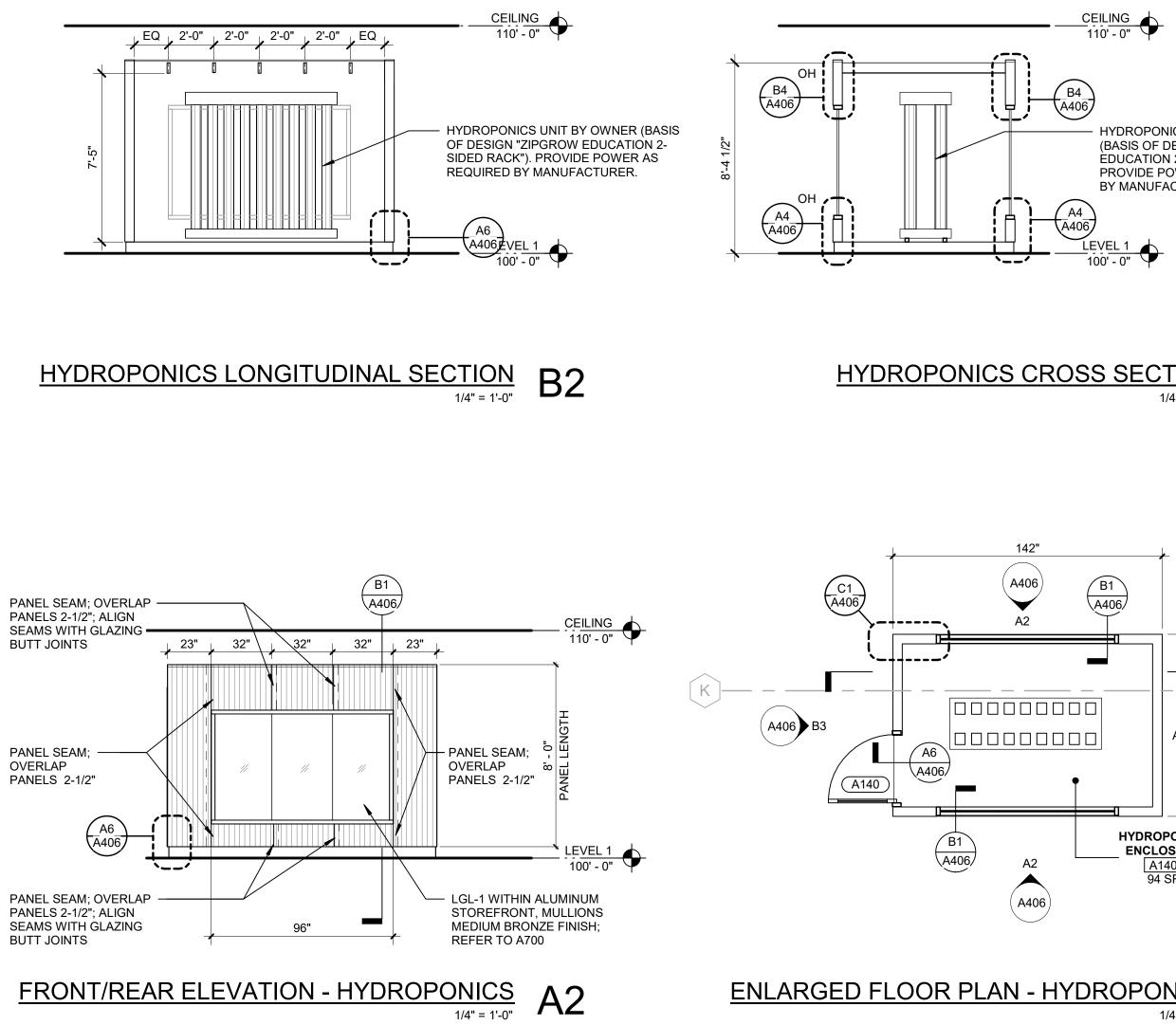
OF WALL BASE AT EXPOSED VERTICAL CORNERS OF GYPSUM

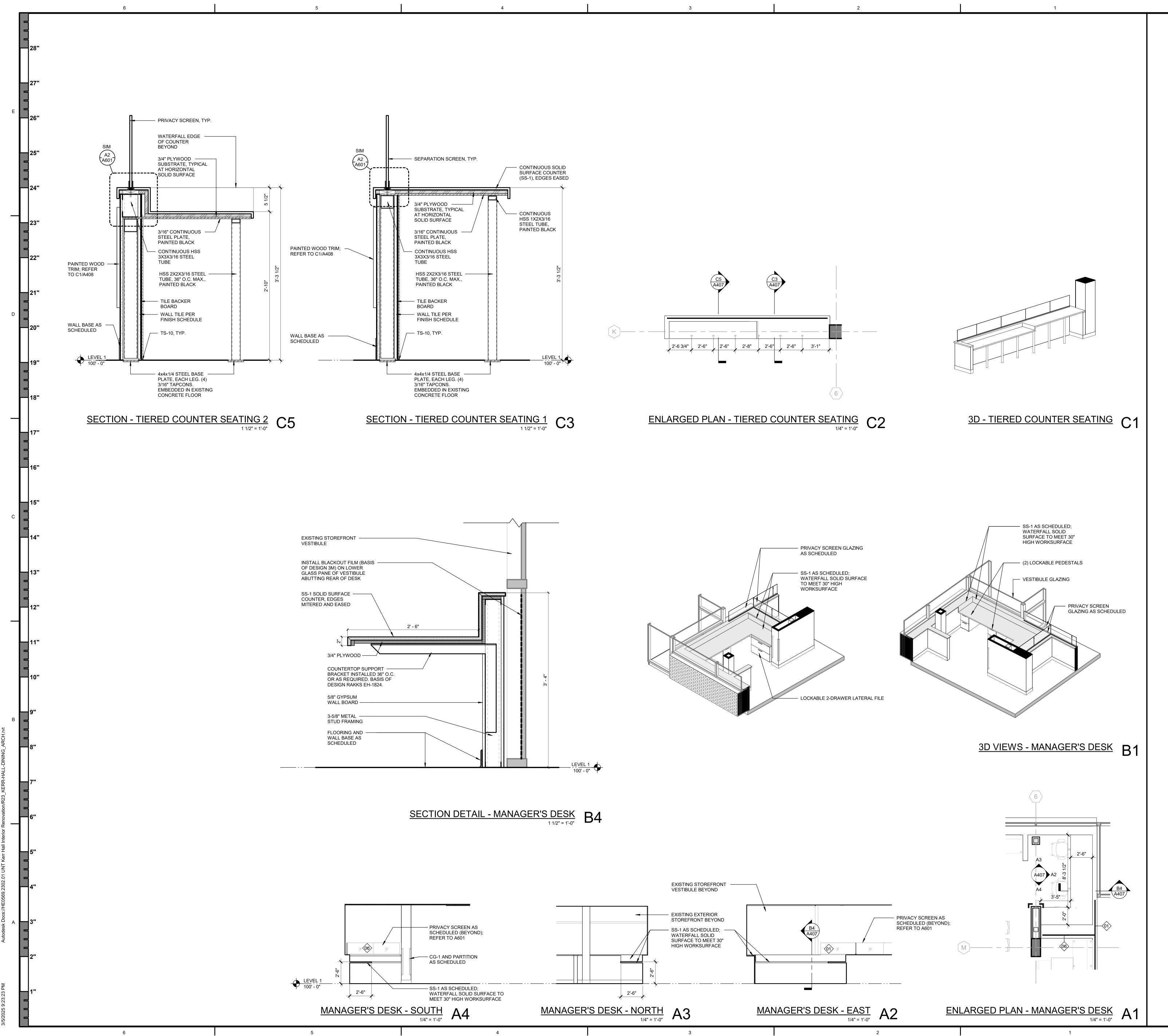


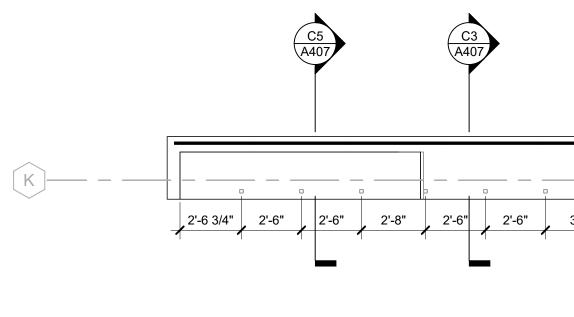


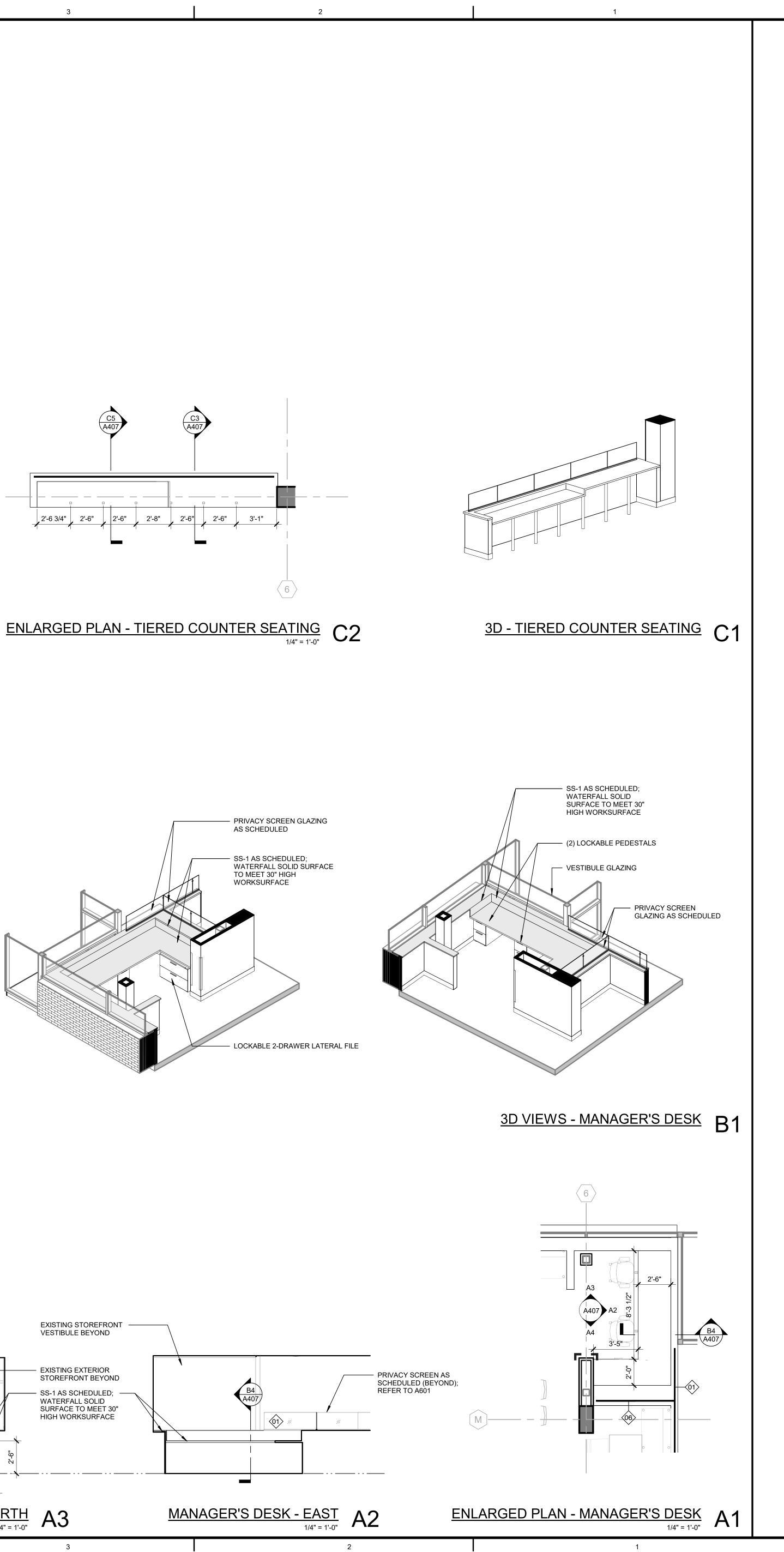


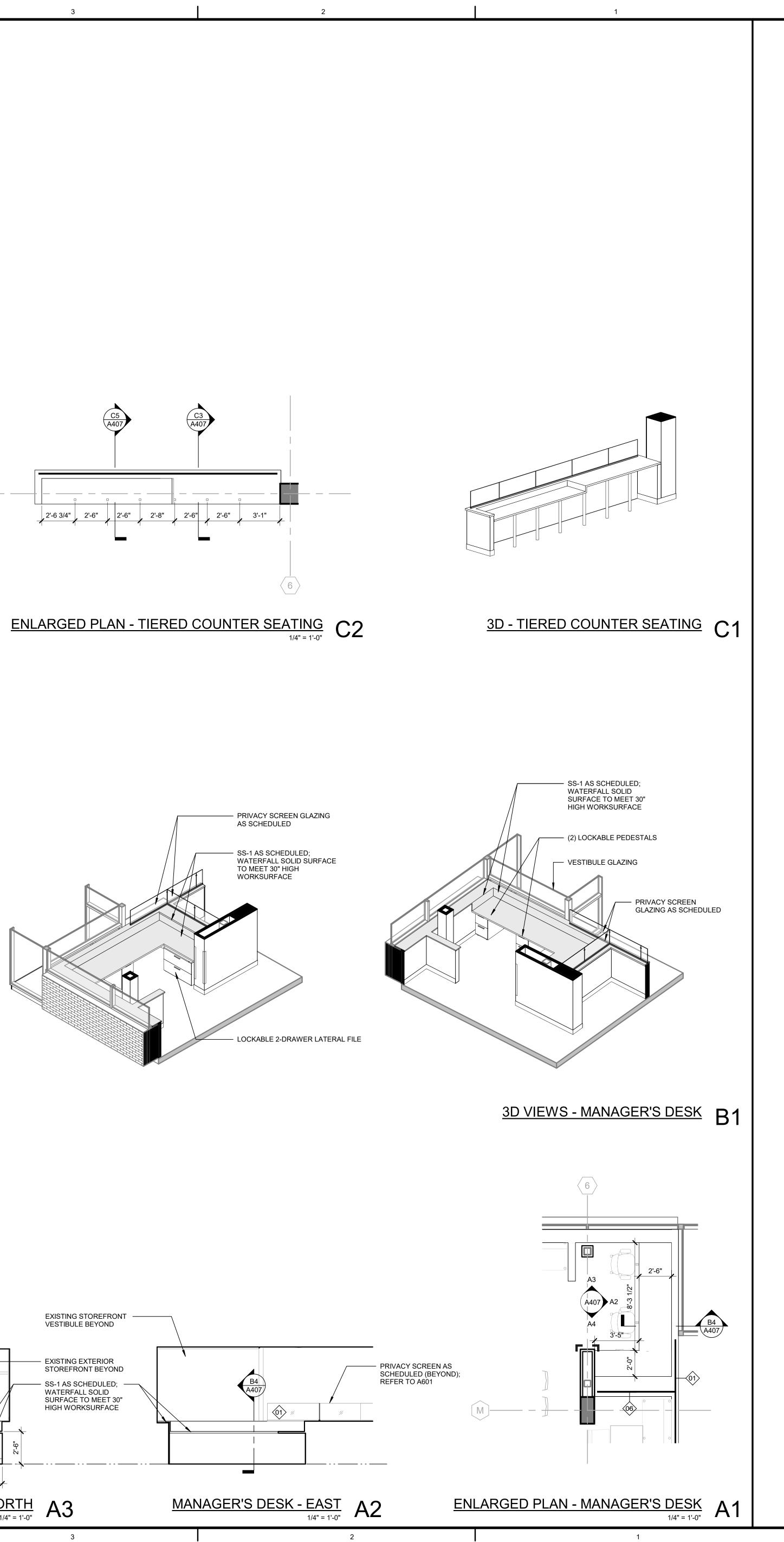




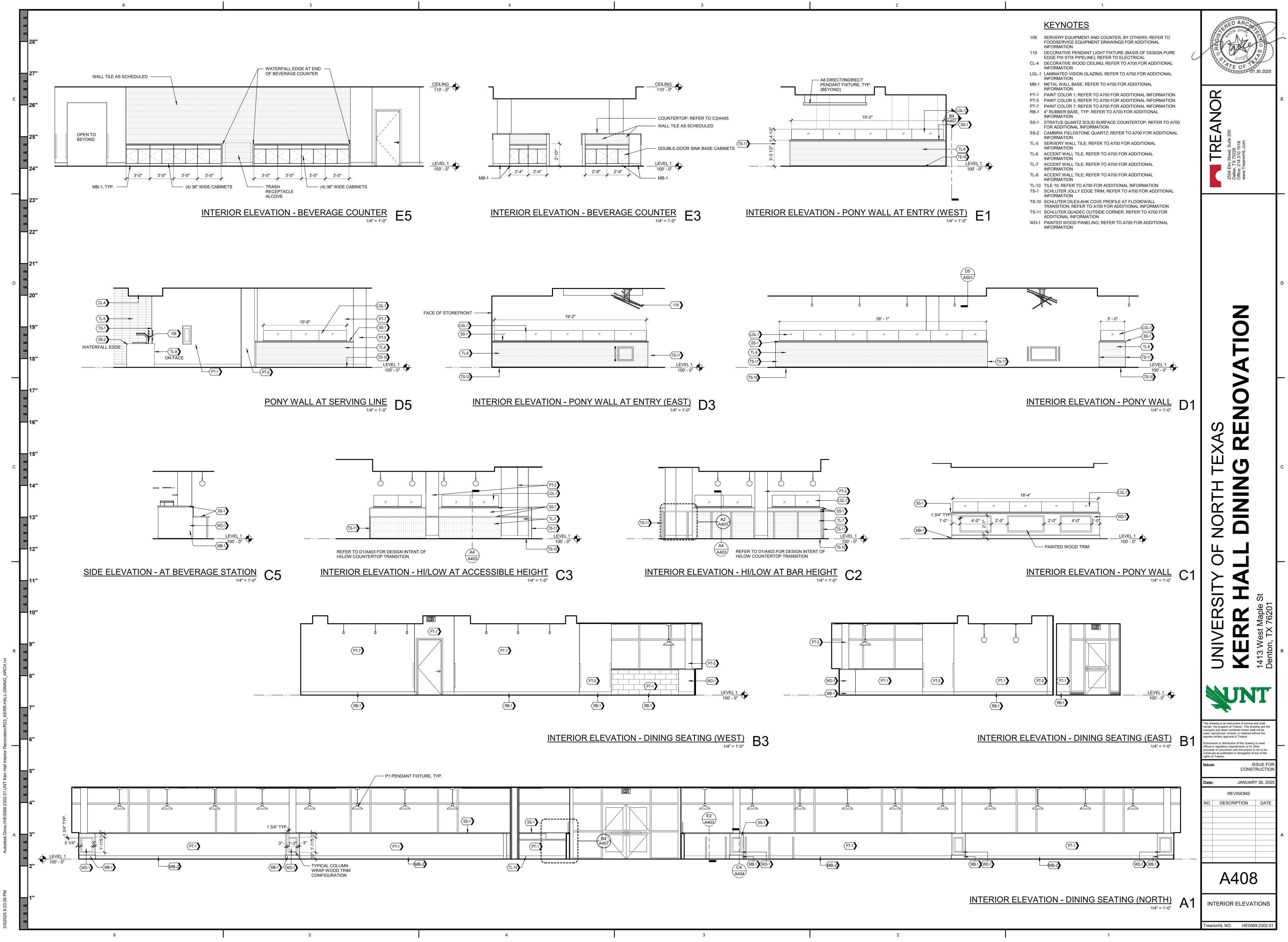


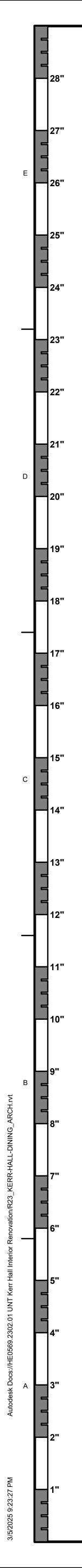


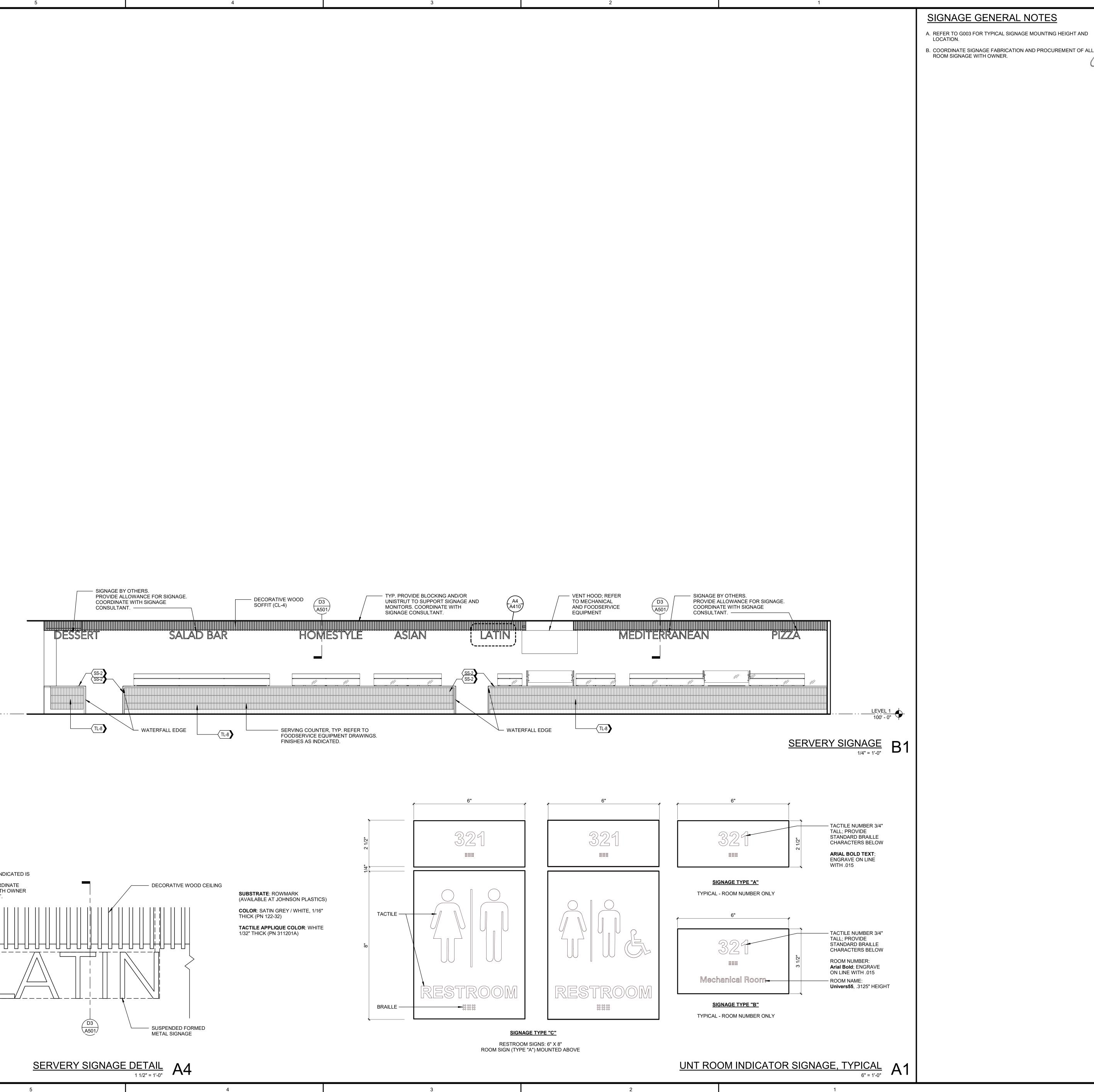


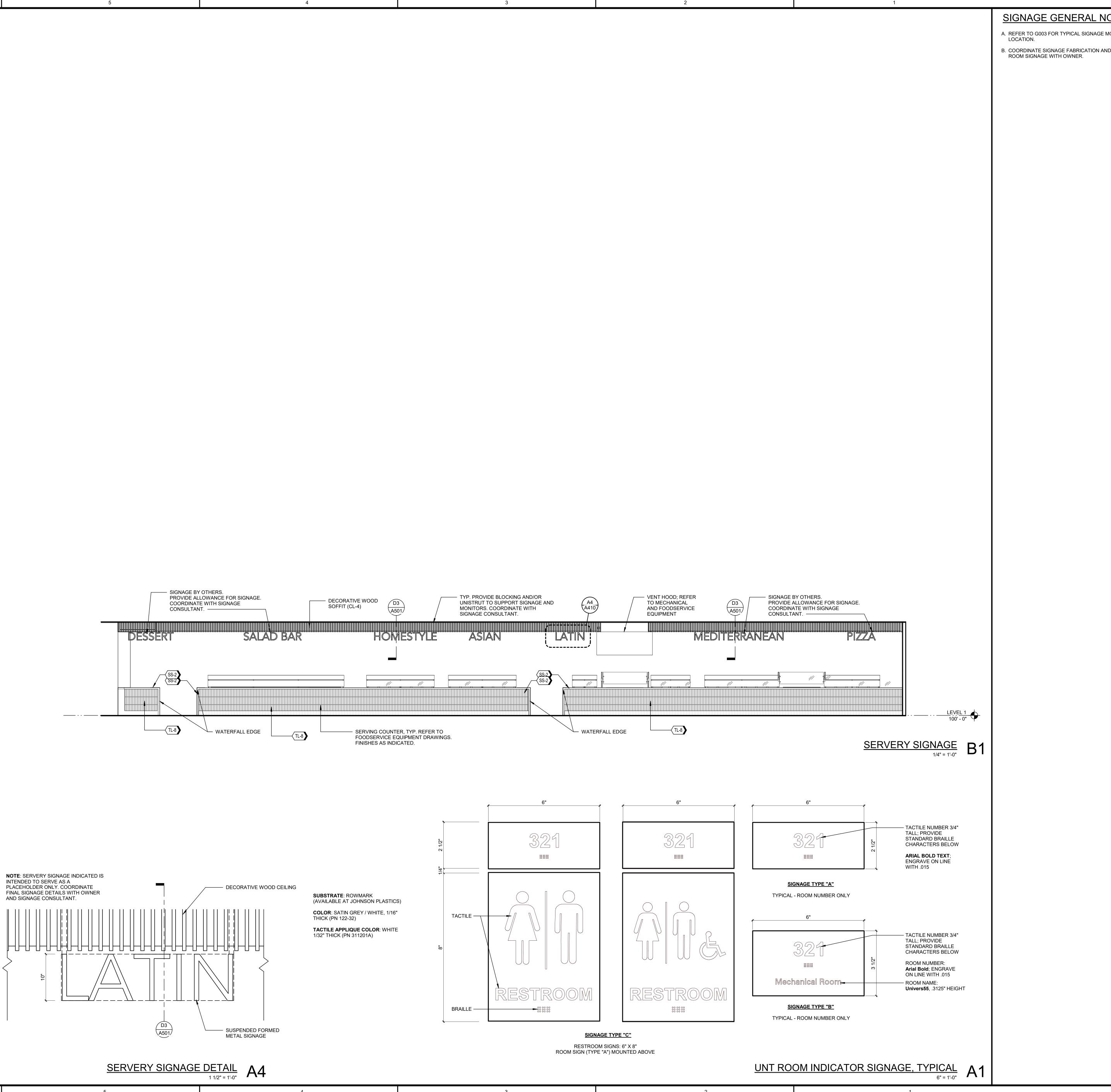


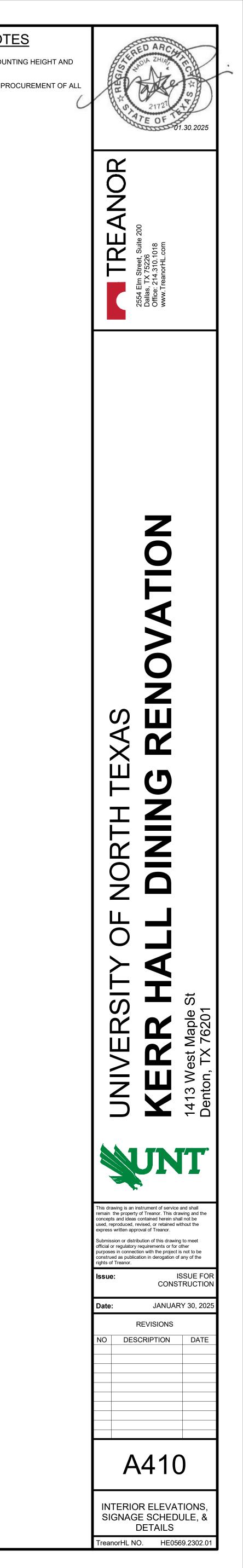


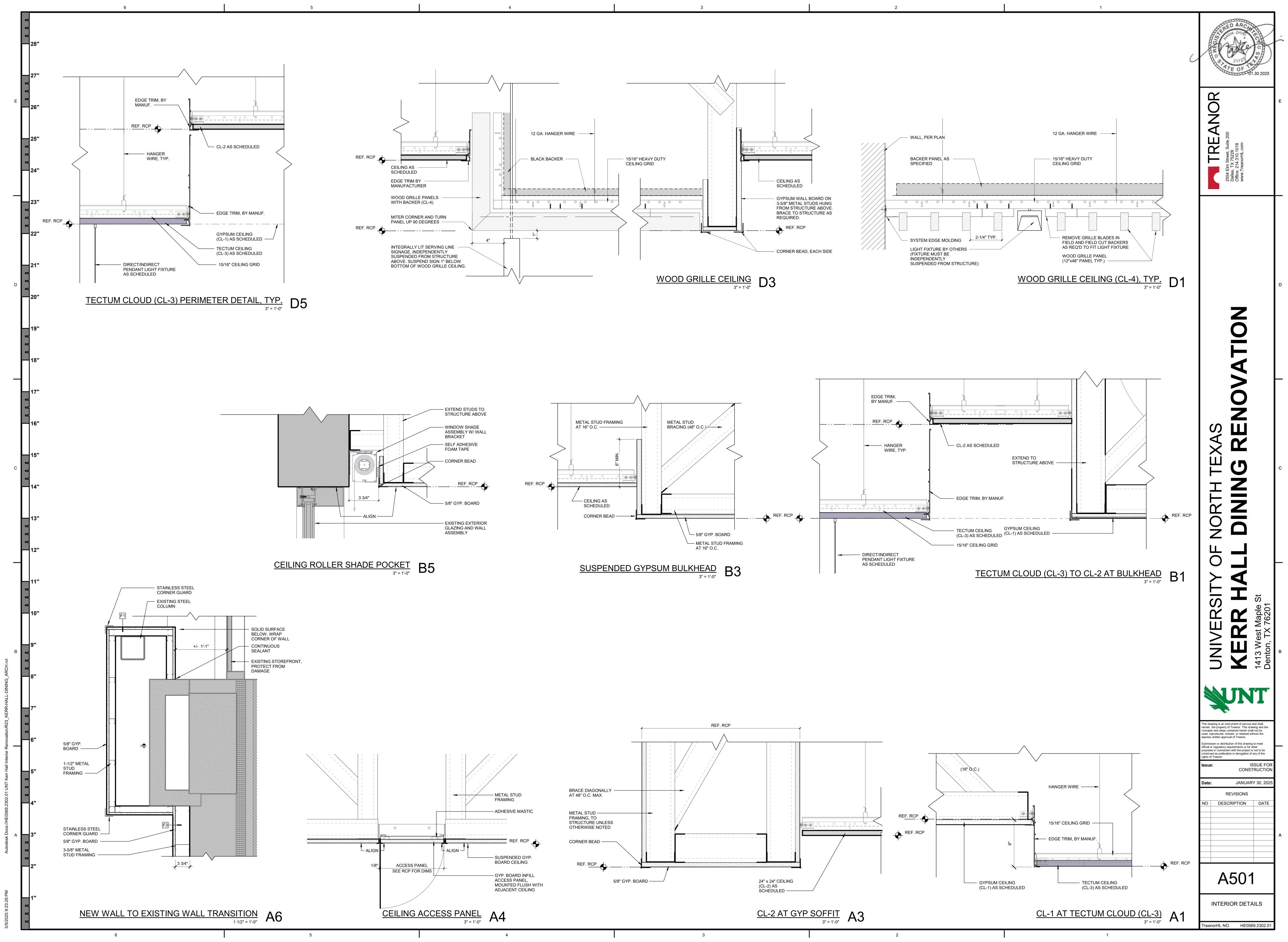


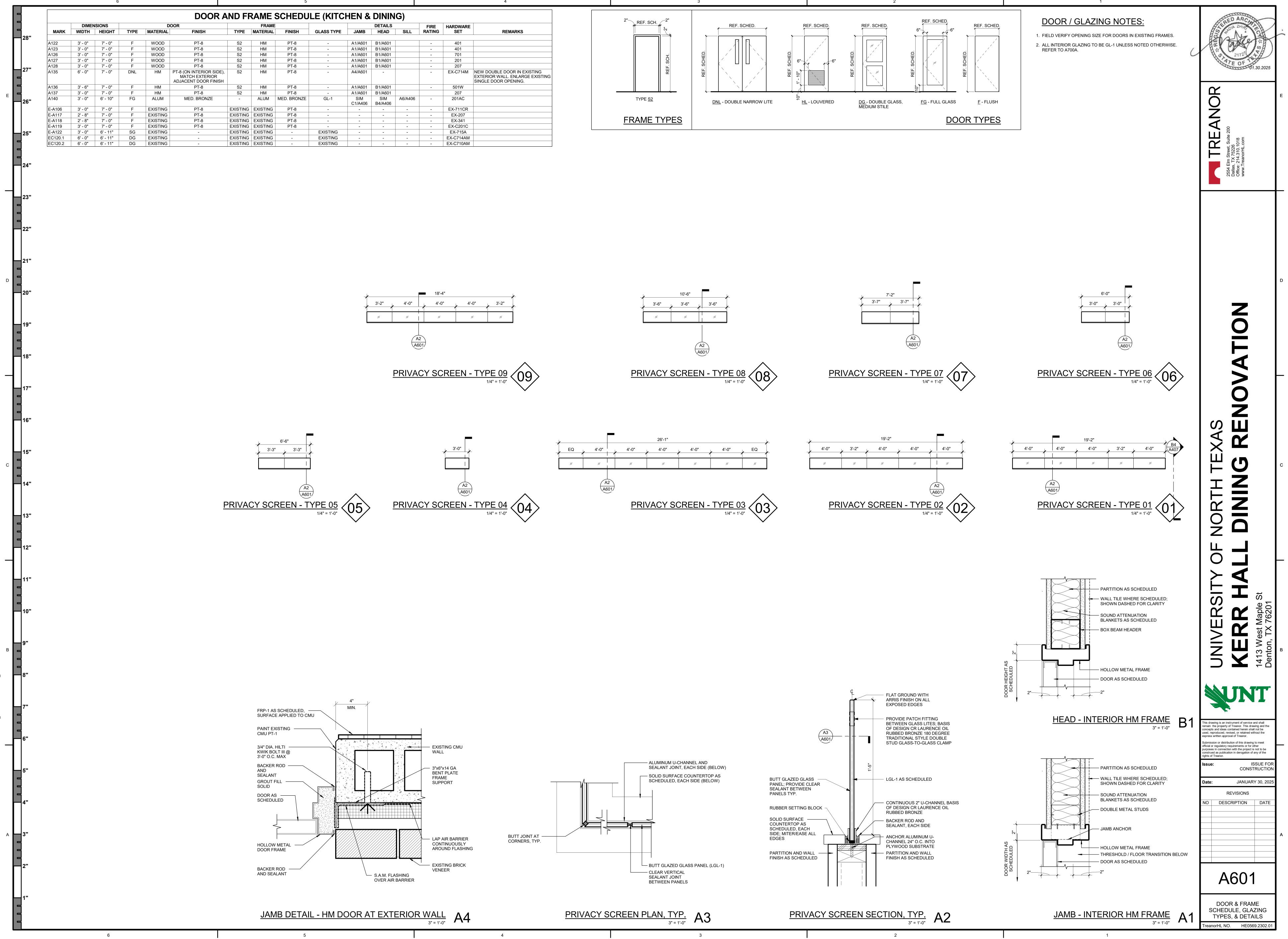




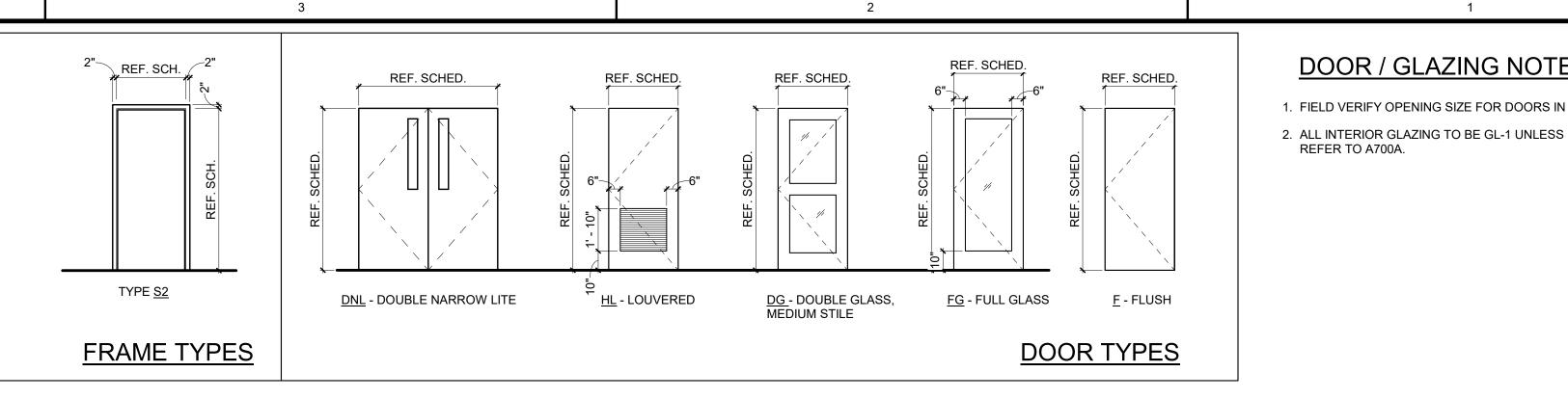


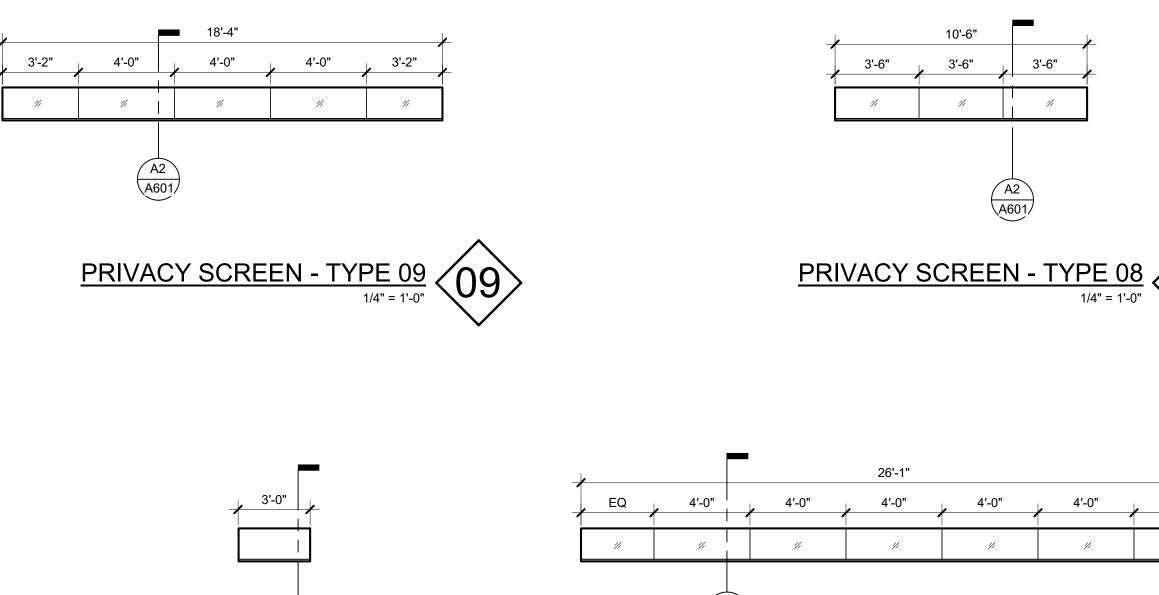


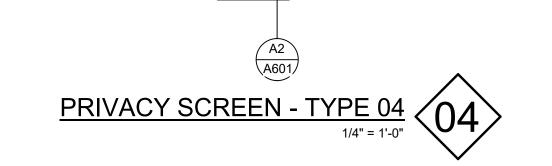


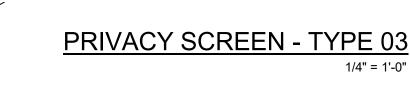


HEN &	DININ	IG)			
	DETAILS			HARDWARE	
JAMB	HEAD	SILL	RATING	SET	REMARKS
A1/A601	B1/A601		-	401	
A1/A601	B1/A601		-	401	
A1/A601	B1/A601		-	701	
A1/A601	B1/A601		-	201	
A1/A601	B1/A601		-	207	
A4/A601	-		-	EX-C714M	NEW DOUBLE DOOR IN EXISTING EXTERIOR WALL. ENLARGE EXISTING SINGLE DOOR OPENING.
A1/A601	B1/A601		-	501W	
A1/A601	B1/A601			207	
SIM C1/A406	SIM B4/A406	A6/A406	-	201AC	
-	-	-	-	EX-711CR	
-	-	-	-	EX-207	
-	-	-	-	EX-341	
-	-	-	-	EX-C201C	
-	-	-	-	EX-715A	
-	-	-	-	EX-C714AM	
-	-	-	-	EX-C710AM	



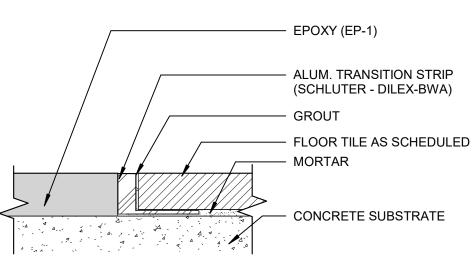






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			FIN	ISH LEGEND		
CODE	MANUFACTURER / PATTERN	PRODUCT NO.	COLOR	FINISH	DIMENSION	REMARKS
	LL PROTECTION	-	STAINLESS STEEL	NO. 4 SATIN FINISH	1-1/2" WINGS x 4' I ENGTH	INSTALL TO 5'-0" AFF, TYPICAL. PROVIDE CORNER GUARDS AT ALL GYPSUM WA
	SURFACE MOUNT CORNER GUARDS	SAS-CBT6-96	STAINLESS STEEL 304			OUTSIDE CORNERS. BASE AT WD-1 DINING PONY WALLS AND HYDROPONICS ENCLOSURE. INCLUDE
	WALL BASE WITH TOE			-		INTERIOR AND EXTERIOR FORMED CORNERS.
MB-2	INPRO ARCHITECTURAL PRODUCTS - STAINLESS STEEL WALL BASE WITHOUT TOE	SAS-CBS-96	STAINLESS STEEL 304			BASE AT FRONT OF DINING WALL. INCLUDE INTERIOR AND EXTERIOR FORMED CORNERS.
RB-1	NORA - NORAPLAN	ART. 820	BLACK - 6201	SMOOTH	4" H	TYP. RUBBER BASE, UNO. GYP WALLS AND COLUMNS.
EILING CL-1	GYPSUM CEILING (PAINTED) - DRYFALL	-	MATCH PT-6, UNO	FLAT	_	TYP. GYP. BOARD CEILING
CL-2	ARMSTRONG - CALLA	2882	WHITE	•	24" W x 24" D	TYP. ACOUSTIC CEILING TILE. USE WITH PRELUDE XL SUSPENSION SYSTEM.
CL-2M	ARMSTRONG - KITCHEN ZONE	683	WHITE	-	24" W x 24" D	FOOD PREP AREAS - MEETS USDA/FSIS GUIDELINES. USE WITH PRELUDE XL15/ SUSPENSION SYSTEM.
CL-3	ARMSTRONG TECTUM DESIGNART LINES TEGULAR CEILINGS	8186D08T10 TFS	COLOR 1: IVY, COLOR 2: SANDSTONE	PATTERN AS SPECIFIED BY ARCHITECT	24" W x 24" D	ACCENT CEILING IN DINING ROOM. USE WITH PRELUDE XL SUSPENSION SYSTE INCLUDE AXOIM TRIM TO MATCH FELDSPAR COLOR.
CL-4	RULON WOOD SLAT PANELS WITH BLACK BACKER FABRIC	PG 4-12-32	SOLID WHITE OAK - STAIN "CREME"	-		DECORATIVE SUSPENDED WOOD CEILING AT SERVING LINE. USE WITH PRELUE XL15/16 SUSPENSION SYSTEM INCLUDE BLACK ACOUSTICAL INFILL PANEL.
					WITH 4 SLATS PER PANEL	
	IFORCED PLASTIC MARLITE / STANDARD P100	P100	WHITE	PEBBLED SURFACE	4'W x 8' or 10'H x 3/32" THK	FOOD PREP AREAS (BACK WALL OF SERVERY AND KITCHEN WALLS)
OORING						
CPT-1	WALK OFF CARPET - MOHAWK GROUP FIRST STEP II	GT315	989 OBSIDIAN	-	24" W x 24" D	WALK OFF CARPET AT ENTRY VESTIBULE
EP-1 SC-1	STONHARD STONCLAD UT 1/4" NOMINAL EPOXY FLOORING SCOFIELD CURESEAL-W SEALED CONCRETE	i - -	PEWTER -	MEDIUM TEXTURE -	- AS INDICATED ON	KITCHEN FLOORING; PROVIDE INTEGRAL COVE BASE STORAGE, JANITOR CLOSET, DRY STORAGE
TL-1	CROSSVILLE - NOTORIOUS	NTR04.11224UPS	SUSPENSE	UNPOLISHED	DRAWINGS 24"L x 12"W	DINING FLOOR FIELD TILE. USE GT-1
TL-2	CROSSVILLE - NOTORIOUS	NTR05.11224UPS VL70	LEADING MAN AMPLIFY BLACK	UNPOLISHED MATTE	24"L x 12"W	DINING FLOOR ACCENT TILE. USE GT-1 RESTROOM FLOOR TILE, USE WITH 6X12 COVE BASE, GROUT CUSTOM BUILDING
TL-3	DALTILE - VOLUME 1.0			MATTE	24"L x 12"W	PRODUCTS #60 CHARCOAL PRODUCTS #60 CHARCOAL
VCT-1	ARMSTRONG FLOORING STANDARD EXCELON IMPERIAL TEXTURE	51910	CLASSIC BLACK	-	12" L x 12" D x 1/8"	FLOORING OF HYDROPONICS ENCLOSURE; REFER TOA406 FOR ADDITIONAL INFORMATION
	TEXTURE					INFORMATION
LAZING GF-1	3M DECORATIVE GLASS FILM	AS SELECTED BY ARCHITECT	AS SELECTED BY ARCHITECT	-	-	-
GL-1	PPG INDUSTRIES, INC STARPHIRE FULLY TEMPERED FLOAT GLASS	-	-	-	.24" THICK	SAFETY GLAZING REQUIRED
LGL-1	INTERIOR LOW-IRON LAMINATED SAFETY VISION GLAZING	ULTRAWHITE	-	-	3/8" LITE WITH PVB INTERLAYER WITH 1/4" LITE	-
ILLWORK						
MTL-1	MOZ VERTICAL CORRUGATED METAL PANEL	-		MATTE		HYDROPONICS ENCLOSURE, TYPICAL (REFER TO A406). INSTALL WITH #8 X 1-1/
			RGB 5-144-51			FINISH / TRIM SCREW EXPOSED FASTENERS. USE MATCHING TRIM PROFILES F CORNERS, BASE, AND END CONDITIONS.
PL-1	WILSONART	-	AS SELECTED BY ARCHTECT FROM MANUFACTURER'S	-	-	BASE CABINETRY AT MANAGER'S DESK AND BEVERAGE STATION
WD-1	PAINTED POPLAR	-	FULL COLOR RANGE PT-4	PRIMED WOOD FINISH, PAINTED AS		WOOD PANELING AT DINING PONY WALLS. MITERED CORNERS.
WD-2	POPLAR	-	CUSTOM STAIN TO MATCH	SPECIFIED CUSTOM	ELEVATIONS FOR DETAILS 1/2" THICKNESS. SEE	WOOD PANELING AT POS, MITERED CORNERS.
			ARCHITECT'S SAMPLE		ELEVATIONS FOR DETAILS	
AINT PT-1	SHERWIN WILLIAMS - SUPER PAINT	SW 7010	WHITE DUCK	EGGSHELL	_	FIELD PAINT
PT-2	SHERWIN WILLIAMS - SUPER PAINT	SW 7010	WHITE DUCK	SEMI-GLOSS	-	RESTROOM PAINT
PT-3 PT-4	SHERWIN WILLIAMS - SUPER PAINT SCUFFMASTER SCRUBTOUGH MAX	SW 7047 CUSTOM TO MATCH SW0065	PORPOISE VOGUE GREEN	SEMI-GLOSS SEMI-GLOSS	-	ACCENT PAINT ACCENT PAINT ON WOOD PANELING
PT-5	SHERWIN WILLIAMS - SUPER PAINT	SW 7031		EGGSHELL	-	
PT-6	SHERWIN WILLIAMS - PRO INDUSTRIAL WATERBORNE ACRYLIC DRYFALL	SW 7004	SNOWBOUND	FLAT	-	
	SHERWIN WILLIAMS - SUPER PAINT SHERWIN WILLIAMS - SUPER PAINT	SW0065 SW7069	VOGUE GREEN IRON ORE	EGGSHELL SEMI-GLOSS	-	ACCENT PAINT ON WALLS DOORS AND DOOR FRAMES
OLID SURI	FACE					
SS-1	STRATUS QUARTZ - KENDALL CONCRETE	SQ4004	WARM GRAY	HONED	3 CM THICKNESS	DINING ROOM, MANAGER'S DESK, AND BEVERAGE COUNTERTOP MATERIAL. EASED EDGE.
SS-2	CAMBRIA FIELDSTONE QUARTZ	-	SLATE GRAY	MATTE	3 CM THICKNESS	SERVERY COUNTERTOP FINISH. EASED EDGE.
				· · ·		
	DALTILE - VOLUME 1.0	VL68	WILLOW	MATTE	24"L x 6"W	RESTROOM WALL TILE, GROUT GT-2 CHARCOAL
LE TL-4			ARCTIC WHITE 0190	GLOSSY	12" L x 4" W 9" L x 2" W	SERVERY WALL TILE. GT-1 ACCENT WALL TILE. 50/50 RANDOM MIX OF FLUTED AND FLAT TEXTURES.
TL-4 TL-5	DALTILE - COLOR WHEEL LINEAR DALTILE - INDOTERRA WALL TILE	0190 IN43	RIVERBED	-		VERTICAL STACKED INSTALLATION. GT-2
TL-5 TL-6	DALTILE - INDOTERRA WALL TILE	IN43	RIVERBED			
TL-4 TL-5 TL-6 TL-7			RIVERBED ALOE HERBAL RD21	- GLOSSY GLOSSY	12" L x 3" W 10"L x 2"W	ACCENT WALL TILE. GT-2 ACCENT WALL TILE. GT-1
TL-4 TL-5 TL-6 TL-7	DALTILE - INDOTERRA WALL TILE DALTILE - ARTCRAFTED DALTILE - REMEDY	IN43 AC25	ALOE		12" L x 3" W	ACCENT WALL TILE. GT-2
TL-4 TL-5 TL-6 TL-7 TL-8	DALTILE - INDOTERRA WALL TILE DALTILE - ARTCRAFTED DALTILE - REMEDY	IN43 AC25	ALOE		12" L x 3" W	ACCENT WALL TILE. GT-2
TL-4 TL-5 TL-6 TL-7 TL-8 LE GROU ⁻	DALTILE - INDOTERRA WALL TILE DALTILE - ARTCRAFTED DALTILE - REMEDY T CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS	IN43 AC25 RD21	ALOE HERBAL RD21		12" L x 3" W 10"L x 2"W	ACCENT WALL TILE. GT-2
TL-4 TL-5 TL-6 TL-7 TL-8 LE GROU ⁻ GT-1	DALTILE - INDOTERRA WALL TILE DALTILE - ARTCRAFTED DALTILE - REMEDY T CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS	IN43 AC25 RD21 644	ALOE HERBAL RD21 SHADOW		12" L x 3" W 10"L x 2"W	ACCENT WALL TILE. GT-2
TL-4 TL-5 TL-6 TL-7 TL-8 LE GROU ^T GT-1 GT-2 GT-3	DALTILE - INDOTERRA WALL TILE DALTILE - ARTCRAFTED DALTILE - REMEDY T CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT	IN43 AC25 RD21 644 543	ALOE HERBAL RD21 SHADOW DRIFTWOOD		12" L x 3" W 10"L x 2"W - -	ACCENT WALL TILE. GT-2
TL-4 TL-5 TL-6 TL-7 TL-8 LE GROUT GT-1 GT-2 GT-3 OILET PAF	DALTILE - INDOTERRA WALL TILE DALTILE - ARTCRAFTED DALTILE - REMEDY T CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT RITION ASI GLOBAL PARTITIONS SOLID PLASTIC (HDPE) FLOOR	IN43 AC25 RD21 644 543	ALOE HERBAL RD21 SHADOW DRIFTWOOD		12" L x 3" W 10"L x 2"W - -	ACCENT WALL TILE. GT-2
TL-4 TL-5 TL-6 TL-7 TL-8 LE GROU ^T GT-1 GT-2 GT-3 DILET PAF TP-1	DALTILE - INDOTERRA WALL TILE DALTILE - ARTCRAFTED DALTILE - REMEDY T CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT RITION ASI GLOBAL PARTITIONS SOLID PLASTIC (HDPE) FLOOR ANCHORED/OVERHEAD BRACED	IN43 AC25 RD21 644 543	ALOE HERBAL RD21 SHADOW DRIFTWOOD CHARCOAL	GLOSSY - - -	12" L x 3" W 10"L x 2"W - - -	ACCENT WALL TILE. GT-2 ACCENT WALL TILE. GT-1
TL-4 TL-5 TL-6 TL-7 TL-8 ILE GROUT GT-1 GT-2 GT-3 OILET PAF	DALTILE - INDOTERRA WALL TILE DALTILE - ARTCRAFTED DALTILE - REMEDY T CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT RITION ASI GLOBAL PARTITIONS SOLID PLASTIC (HDPE) FLOOR ANCHORED/OVERHEAD BRACED	IN43 AC25 RD21 644 543	ALOE HERBAL RD21 SHADOW DRIFTWOOD CHARCOAL	GLOSSY - - -	12" L x 3" W 10"L x 2"W - - -	ACCENT WALL TILE. GT-2 ACCENT WALL TILE. GT-1
TL-4 TL-5 TL-7 TL-8 LE GROU ^T GT-1 GT-2 GT-3 DILET PAF TP-1 RANSITION TS-1 TS-2	DALTILE - INDOTERRA WALL TILE DALTILE - ARTCRAFTED DALTILE - REMEDY T CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT RITION ASI GLOBAL PARTITIONS SOLID PLASTIC (HDPE) FLOOR ANCHORED/OVERHEAD BRACED STRIP SCHLUTER JOLLY EDGE TRIM SCHLUTER RENO-RAMP REDUCER	IN43 AC25 RD21 644 543 60 - - J60EB AERPK 125 B65	ALOE HERBAL RD21 SHADOW DRIFTWOOD CHARCOAL CHARCOAL 9237 STAINLESS STEEL STAINLESS STEEL	GLOSSY GLOSSY GLOSSY BRUSHED RUSHED BRUSHED BRUSHED BRUSHED BRUSHED BRUSHED BRUSHED BRUSHED BRU	12" L x 3" W 10"L x 2"W - - - - - - - - - - - - - - - - - AS REQUIRED AS REQUIRED AS REQUIRED	ACCENT WALL TILE. GT-2 ACCENT WALL TILE. GT-1 TYP. RESTROOM TOILET PARITIONS TYP. WALL TILE TRANSITION STRIP AT TOILET ROOM WALL TILE. TYP. FLOOR TILE TO SEALED CONCRETE TRANSITION STRIP
TL-4 TL-5 TL-6 TL-7 TL-8 LE GROU ^T GT-1 GT-2 GT-3 DILET PAF TP-1 RANSITION TS-1 TS-2 TS-3	DALTILE - INDOTERRA WALL TILE DALTILE - ARTCRAFTED DALTILE - REMEDY T CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT RITION ASI GLOBAL PARTITIONS SOLID PLASTIC (HDPE) FLOOR ANCHORED/OVERHEAD BRACED N STRIP SCHLUTER JOLLY EDGE TRIM SCHLUTER RENO-RAMP REDUCER SCHLUTER RENO-TK REDUCER	IN43 AC25 RD21 644 543 60 - - J60EB AERPK 125 B65 EBTK80	ALOE HERBAL RD21 SHADOW DRIFTWOOD CHARCOAL CHARCOAL 9237 CHARCOAL 9237 STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL	GLOSSY GLOSSY GLOSSY GLOSSY BRUSHED	AS REQUIRED AS REQUIRED AS REQUIRED AS REQUIRED	ACCENT WALL TILE. GT-2 ACCENT WALL TILE. GT-1 TYP. RESTROOM TOILET PARITIONS TYP. WALL TILE TRANSITION STRIP AT TOILET ROOM WALL TILE. TYP. FLOOR TILE TO SEALED CONCRETE TRANSITION STRIP TYP. CONCRETE TO CARPET TRANSITION STRIP
TL-4 TL-5 TL-7 TL-8 LE GROU ^T GT-1 GT-2 GT-3 DILET PAF TP-1 RANSITION TS-1 TS-2	DALTILE - INDOTERRA WALL TILE DALTILE - ARTCRAFTED DALTILE - REMEDY T CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT RITION ASI GLOBAL PARTITIONS SOLID PLASTIC (HDPE) FLOOR ANCHORED/OVERHEAD BRACED STRIP SCHLUTER JOLLY EDGE TRIM SCHLUTER RENO-RAMP REDUCER	IN43 AC25 RD21 644 543 60 - - J60EB AERPK 125 B65	ALOE HERBAL RD21 SHADOW DRIFTWOOD CHARCOAL CHARCOAL 9237 STAINLESS STEEL STAINLESS STEEL	GLOSSY GLOSSY GLOSSY BRUSHED RUSHED BRUSHED BRUSHED BRUSHED BRUSHED BRUSHED BRUSHED BRUSHED BRU	12" L x 3" W 10"L x 2"W - - - - - - - - - - - - - - - - - AS REQUIRED AS REQUIRED AS REQUIRED	ACCENT WALL TILE. GT-2 ACCENT WALL TILE. GT-1 TYP. RESTROOM TOILET PARITIONS TYP. WALL TILE TRANSITION STRIP AT TOILET ROOM WALL TILE. TYP. FLOOR TILE TO SEALED CONCRETE TRANSITION STRIP
TL-4 TL-5 TL-6 TL-7 TL-8 LE GROU ^T GT-1 GT-2 GT-2 GT-3 DILET PAF TP-1 RANSITION TS-1 TS-2 TS-3 TS-4 TS-6 TS-7	DALTILE - INDOTERRA WALL TILE DALTILE - ARTCRAFTED DALTILE - REMEDY T CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT RITION ASI GLOBAL PARTITIONS SOLID PLASTIC (HDPE) FLOOR ANCHORED/OVERHEAD BRACED N STRIP SCHLUTER JOLLY EDGE TRIM SCHLUTER RENO-RAMP REDUCER SCHLUTER RENO-TK REDUCER SCHLUTER SCHIENE FRY REGLET MILLWORK 1/4" POST OUTSIDE CORNER FRY REGLET MILLWORK 1/4" POST TERMINATION	IN43 AC25 RD21 644 543 60 - - J60EB AERPK 125 B65 EBTK80 E100EB MWPOSC25100 MWPT25100	ALOE HERBAL RD21 SHADOW DRIFTWOOD CHARCOAL CHARCOAL 9237 STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL ALUMINUM ALUMINUM	GLOSSY - - - - - BRUSHED BRUSHED BRUSHED BRUSHED CLEAR ANODIZED CLEAR ANODIZED	12" L x 3" W 10"L x 2"W - <td>ACCENT WALL TILE. GT-2 ACCENT WALL TILE. GT-1 TYP. RESTROOM TOILET PARITIONS TYP. WALL TILE TRANSITION STRIP AT TOILET ROOM WALL TILE. TYP. FLOOR TILE TO SEALED CONCRETE TRANSITION WALL TILE. TYP. FLOOR TILE TO SEALED CONCRETE TRANSITION STRIP TYP. CONCRETE TO CARPET TRANSITION STRIP TYP. INSIDE CORNER, WALL TILE TYP. OUTSIDE CORNER, AS NOTED ON DRAWINGS TYP. OUTSIDE CORNER, AS NOTED ON DRAWINGS</td>	ACCENT WALL TILE. GT-2 ACCENT WALL TILE. GT-1 TYP. RESTROOM TOILET PARITIONS TYP. WALL TILE TRANSITION STRIP AT TOILET ROOM WALL TILE. TYP. FLOOR TILE TO SEALED CONCRETE TRANSITION WALL TILE. TYP. FLOOR TILE TO SEALED CONCRETE TRANSITION STRIP TYP. CONCRETE TO CARPET TRANSITION STRIP TYP. INSIDE CORNER, WALL TILE TYP. OUTSIDE CORNER, AS NOTED ON DRAWINGS TYP. OUTSIDE CORNER, AS NOTED ON DRAWINGS
TL-4 TL-5 TL-6 TL-7 TL-8 LE GROU ^T GT-1 GT-2 GT-3 DILET PAF TP-1 RANSITION TS-1 TS-2 TS-3 TS-4 TS-6 TS-7 TS-8	DALTILE - INDOTERRA WALL TILE DALTILE - ARTCRAFTED DALTILE - REMEDY T CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT RITION ASI GLOBAL PARTITIONS SOLID PLASTIC (HDPE) FLOOR ANCHORED/OVERHEAD BRACED N STRIP SCHLUTER JOLLY EDGE TRIM SCHLUTER RENO-RAMP REDUCER SCHLUTER RENO-TK REDUCER SCHLUTER SCHIENE FRY REGLET MILLWORK 1/4" POST OUTSIDE CORNER FRY REGLET MILLWORK 1/4" POST TERMINATION FRY REGLET MILLWORK REVEAL L-ANGLE	IN43 AC25 RD21 644 543 60 - - J60EB AERPK 125 B65 EBTK80 E100EB MWPOSC25100 MWPT25100 MWRL75	ALOE HERBAL RD21 SHADOW DRIFTWOOD CHARCOAL CHARCOAL CHARCOAL 9237 CHARCOAL 9237 STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL ALUMINUM ALUMINUM	GLOSSY - - - - PEBBLE GRAINED BRUSHED BRUSHED BRUSHED BRUSHED CLEAR ANODIZED CLEAR ANODIZED CLEAR ANODIZED CLEAR ANODIZED	12" L x 3" W 10"L x 2"W - <td>ACCENT WALL TILE. GT-2 ACCENT WALL TILE. GT-1 TYP. RESTROOM TOILET PARITIONS TYP. WALL TILE TRANSITION STRIP AT TOILET ROOM WALL TILE. TYP. FLOOR TILE TO SEALED CONCRETE TRANSITION STRIP TYP. FLOOR TILE TO SEALED CONCRETE TRANSITION STRIP TYP. CONCRETE TO CARPET TRANSITION STRIP TYP. INSIDE CORNER, WALL TILE TYP. OUTSIDE CORNER, AS NOTED ON DRAWINGS TYP. OUTSIDE CORNER, AS NOTED ON DRAWINGS TYP. INSIDE CORNER, AS NOTED ON DRAWINGS</td>	ACCENT WALL TILE. GT-2 ACCENT WALL TILE. GT-1 TYP. RESTROOM TOILET PARITIONS TYP. WALL TILE TRANSITION STRIP AT TOILET ROOM WALL TILE. TYP. FLOOR TILE TO SEALED CONCRETE TRANSITION STRIP TYP. FLOOR TILE TO SEALED CONCRETE TRANSITION STRIP TYP. CONCRETE TO CARPET TRANSITION STRIP TYP. INSIDE CORNER, WALL TILE TYP. OUTSIDE CORNER, AS NOTED ON DRAWINGS TYP. OUTSIDE CORNER, AS NOTED ON DRAWINGS TYP. INSIDE CORNER, AS NOTED ON DRAWINGS
TL-4 TL-5 TL-6 TL-7 TL-8 LE GROU ⁷ GT-1 GT-2 GT-3 DILET PAF TP-1 RANSITION TS-1 TS-2 TS-3 TS-4 TS-6 TS-7 TS-8 TS-9	DALTILE - INDOTERRA WALL TILE DALTILE - ARTCRAFTED DALTILE - REMEDY T CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT RITION ASI GLOBAL PARTITIONS SOLID PLASTIC (HDPE) FLOOR ANCHORED/OVERHEAD BRACED N STRIP SCHLUTER JOLLY EDGE TRIM SCHLUTER RENO-RAMP REDUCER SCHLUTER RENO-TK REDUCER SCHLUTER SCHIENE FRY REGLET MILLWORK 1/4" POST OUTSIDE CORNER FRY REGLET MILLWORK 1/4" POST TERMINATION FRY REGLET MILLWORK REVEAL L-ANGLE FRY REGLET DRYWALL J-MOLDING	IN43 AC25 RD21 644 543 60 - - - J60EB AERPK 125 B65 EBTK80 E100EB MWPOSC25100 MWPT25100 MWRL75 JDM-625	ALOE HERBAL RD21 SHADOW DRIFTWOOD CHARCOAL CHARCOAL CHARCOAL 9237 CHARCOAL 9237 STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL ALUMINUM ALUMINUM ALUMINUM	GLOSSY - - - - - BRUSHED BRUSHED BRUSHED BRUSHED CLEAR ANODIZED CLEAR ANODIZED CLEAR ANODIZED CLEAR ANODIZED CLEAR ANODIZED	12" L x 3" W 10"L x 2"W - - - - - - - - AS REQUIRED	ACCENT WALL TILE. GT-2 ACCENT WALL TILE. GT-1 TYP. RESTROOM TOILET PARITIONS TYP. RESTROOM TOILET PARITIONS TYP. WALL TILE TRANSITION STRIP AT TOILET ROOM WALL TILE. TYP. FLOOR TILE TO SEALED CONCRETE TRANSITION STRIP TYP. CONCRETE TO CARPET TRANSITION STRIP TYP. CONCRETE TO CARPET TRANSITION STRIP TYP. INSIDE CORNER, WALL TILE TYP. OUTSIDE CORNER, AS NOTED ON DRAWINGS TYP. OUTSIDE CORNER, AS NOTED ON DRAWINGS TYP. INSIDE CORNER, AS NOTED ON DRAWINGS
TL-4 TL-5 TL-7 TL-8 LE GROU ^T GT-1 GT-2 GT-3 DILET PAF TP-1 RANSITION TS-1 TS-1 TS-2 TS-3 TS-4 TS-6 TS-7 TS-8 TS-9 TS-10	DALTILE - INDOTERRA WALL TILE DALTILE - ARTCRAFTED DALTILE - REMEDY T CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT RITION ASI GLOBAL PARTITIONS SOLID PLASTIC (HDPE) FLOOR ANCHORED/OVERHEAD BRACED N STRIP SCHLUTER JOLLY EDGE TRIM SCHLUTER RENO-RAMP REDUCER SCHLUTER RENO-TK REDUCER SCHLUTER SCHIENE FRY REGLET MILLWORK 1/4" POST OUTSIDE CORNER FRY REGLET MILLWORK 1/4" POST TERMINATION FRY REGLET MILLWORK REVEAL L-ANGLE	IN43 AC25 RD21 644 543 60 - - J60EB AERPK 125 B65 EBTK80 E100EB MWPOSC25100 MWPT25100 MWRL75	ALOE HERBAL RD21 SHADOW DRIFTWOOD CHARCOAL CHARCOAL CHARCOAL 9237 CHARCOAL 9237 STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL ALUMINUM ALUMINUM	GLOSSY - - - - PEBBLE GRAINED BRUSHED BRUSHED BRUSHED BRUSHED CLEAR ANODIZED CLEAR ANODIZED CLEAR ANODIZED CLEAR ANODIZED	12" L x 3" W 10"L x 2"W - <td>ACCENT WALL TILE. GT-2 ACCENT WALL TILE. GT-1 TYP. RESTROOM TOILET PARITIONS TYP. WALL TILE TRANSITION STRIP AT TOILET ROOM WALL TILE. TYP. FLOOR TILE TO SEALED CONCRETE TRANSITION STRIP TYP. FLOOR TILE TO SEALED CONCRETE TRANSITION STRIP TYP. CONCRETE TO CARPET TRANSITION STRIP TYP. INSIDE CORNER, WALL TILE TYP. OUTSIDE CORNER, AS NOTED ON DRAWINGS TYP. OUTSIDE CORNER, AS NOTED ON DRAWINGS TYP. INSIDE CORNER, AS NOTED ON DRAWINGS</td>	ACCENT WALL TILE. GT-2 ACCENT WALL TILE. GT-1 TYP. RESTROOM TOILET PARITIONS TYP. WALL TILE TRANSITION STRIP AT TOILET ROOM WALL TILE. TYP. FLOOR TILE TO SEALED CONCRETE TRANSITION STRIP TYP. FLOOR TILE TO SEALED CONCRETE TRANSITION STRIP TYP. CONCRETE TO CARPET TRANSITION STRIP TYP. INSIDE CORNER, WALL TILE TYP. OUTSIDE CORNER, AS NOTED ON DRAWINGS TYP. OUTSIDE CORNER, AS NOTED ON DRAWINGS TYP. INSIDE CORNER, AS NOTED ON DRAWINGS

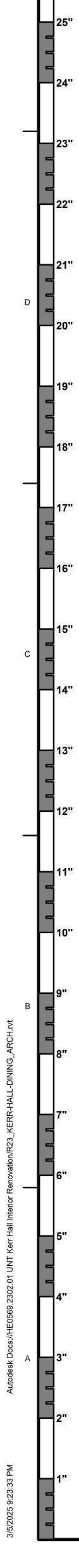
				RO	OM BY ROOI	M FINISH SC	CHEDULE				
	ROOM	FLC	ORS	WALLS			CEILING	MILLY	WORK	_	
ROOM #	ROOM NAME	FLOOR FINISH	BASE	NORTH	EAST	SOUTH	WEST	FINISH	MILLWORK	COUNTER	REMARKS
A 4 4 7		00.4		DT 4							
A117		SC-1	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN TO STRUCTURE	-	-	
A118		TL-3	TL-3	TL-4, PT-2	TL-4, PT-2	TL-4, PT-2	TL-4, PT-2	CL-1	-	-	
A119						EXISTING TO REMAIN	EXISTING TO REMAIN			-	
A120	DINING	TL-1, TL-2	VARIES SEE ELEVATIONS	PT-1	PT-1 / PT-5 / TL-6 / TL-7	-	PT-1 / PT-5 / TL-6 / TL-7	CL-1, CL-2, CL-3	WD-1, WD-2	SS-1	
A122	WOMEN'S RESTROOM	TL-3	TL-3	TL-4, PT-2	TL-4, PT-2	TL-4, PT-2	TL-4, PT-2	CL-1	-	SS-2	
A123	MEN'S RESTROOM	TL-3	TL-3	TL-4, PT-2	TL-4, PT-2	TL-4, PT-2	TL-4, PT-2	CL-1	-	SS-2	
A125	SERVERY	TL-9	TL-9	-	-	TL-5	TL-5	CL-1/CL-4	-	SS-2	
A126	DISH RETURN	TL-1	RB-1	-	PT-1	PT-1	PT-1	CL-2	-	SS-2	
A127	JANITOR	SC-1	RB-1	PT-1	FRP-1	FRP-1	PT-1	OPEN TO STRUCTURE	-	-	EXTEND FRP TO 8' AFF
A128	STORAGE	SC-1	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN TO STRUCTURE	-	-	
A130	KITCHEN	EP-1	EP-1	FRP-1	FRP-1	FRP-1	FRP-1	CL-2M	-	-	
A130.1	WAREWASH	EP-1	EP-1	FRP-1	FRP-1	FRP-1	FRP-1	CL-2M	-	-	
A135	RECEIVING	EP-1	EP-1	FRP-1	FRP-1	FRP-1	FRP-1	CL-2M	-	-	
A136	DRY STORAGE	EP-1	EP-1	FRP-1	FRP-1	FRP-1	FRP-1	OPEN TO STRUCTURE	-	-	
A137	NON-FOOD STORAGE	EP-1	EP-1	PT-1	PT-1	PT-1	PT-1	CL-2M	-	-	
A140	HYDROPONICS ENCLOSURE	VCT-1	MB-1	PT-1	PT-1	PT-1	PT-1	-	-	-	REFER TO A406 FOR ADDITIONAL INFORMATION
C120	VESTIBULE	CPT-1	-	EXISTING GLAZING	EXISTING GLAZING	EXISTING GLAZING	EXISTING GLAZING	CL-1	-	-	
C121	SERVING LINE	TL-1	VARIES SEE ELEVATIONS	-	-	-	PT-1 / PT-5	CL-1/CL-4	TL-8	SS-2	
C121.2	BEVERAGE / CONDIMENTS STATION	TL-1	RB-1, MB-1	TL-6	TL-6	-	TL-6	CL-1, CL-2	TL-6, PL-1	SS-2	

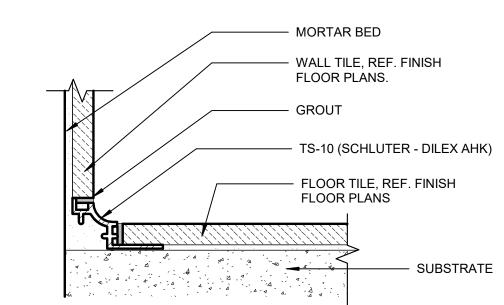


EPOXY TO TILE A5

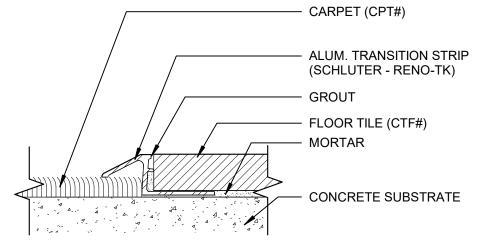
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5





— MORTAR BED – WALL TILE, REF. FINISH FLOOR PLANS. — GROUT — TS-10 (SCHLUTER - DILEX AHK) FLOOR TILE, REF. FINISH FLOOR PLANS

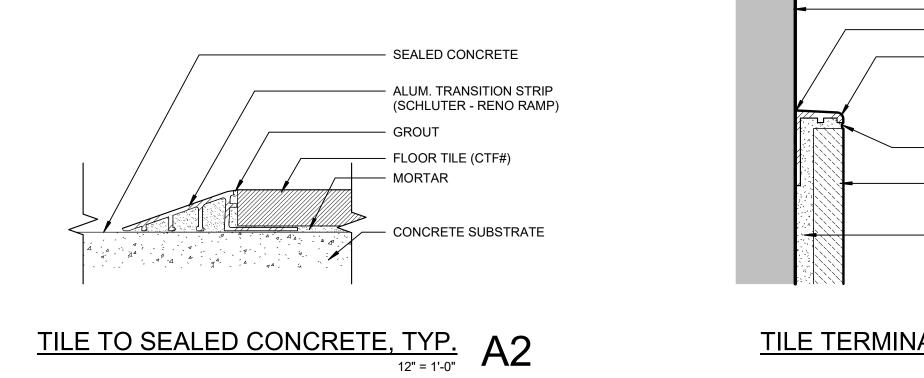


WALL TILE / FLOOR TILE TRANSITION A4

4

CARPET TO TILE A3

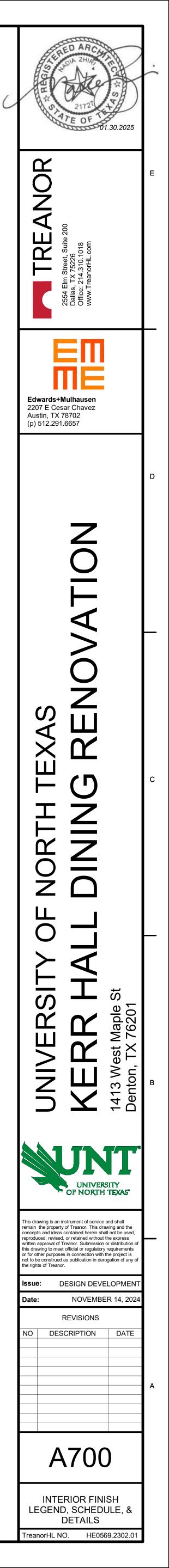
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2

TILE TERMINATION DETAIL A1

1

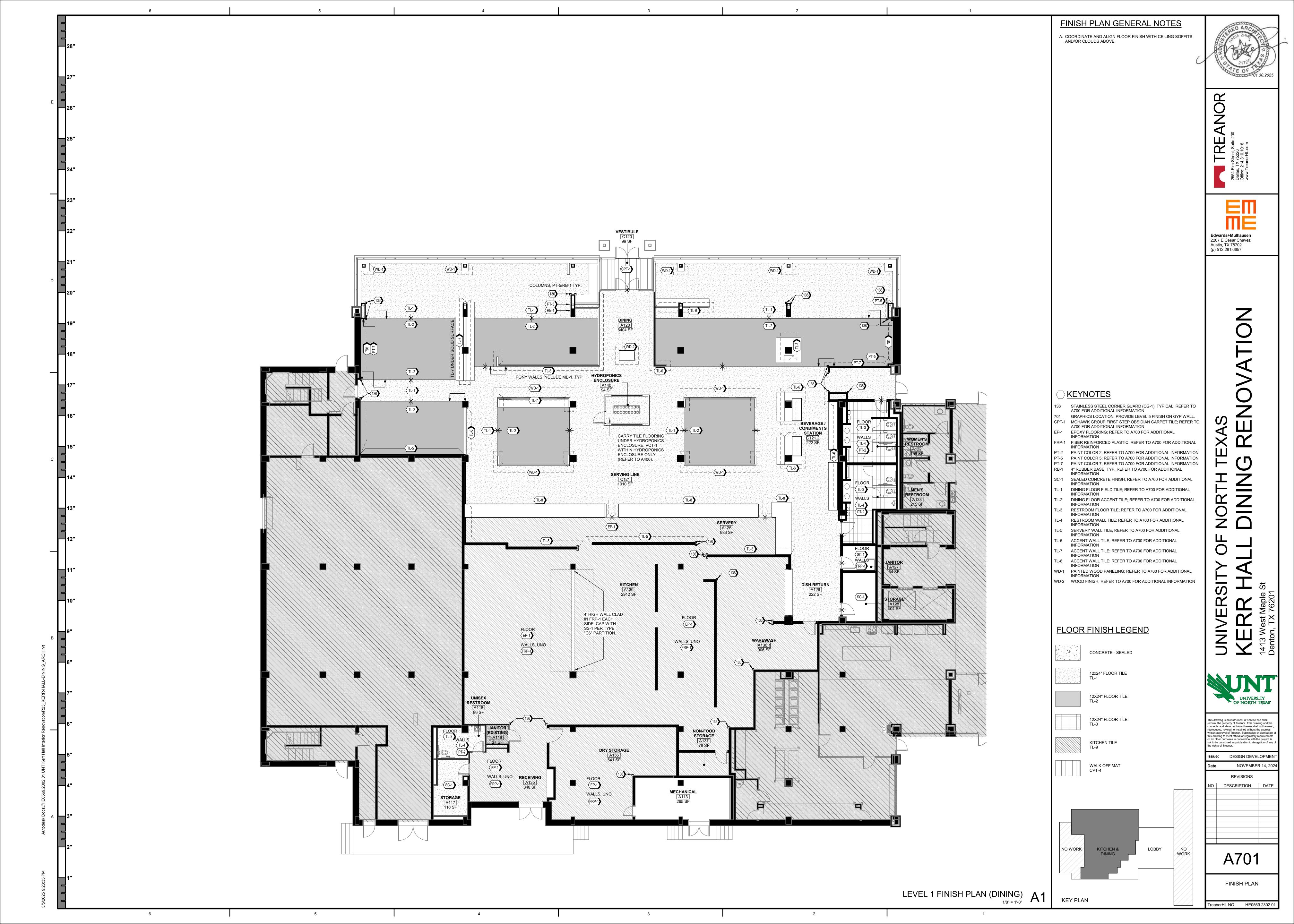


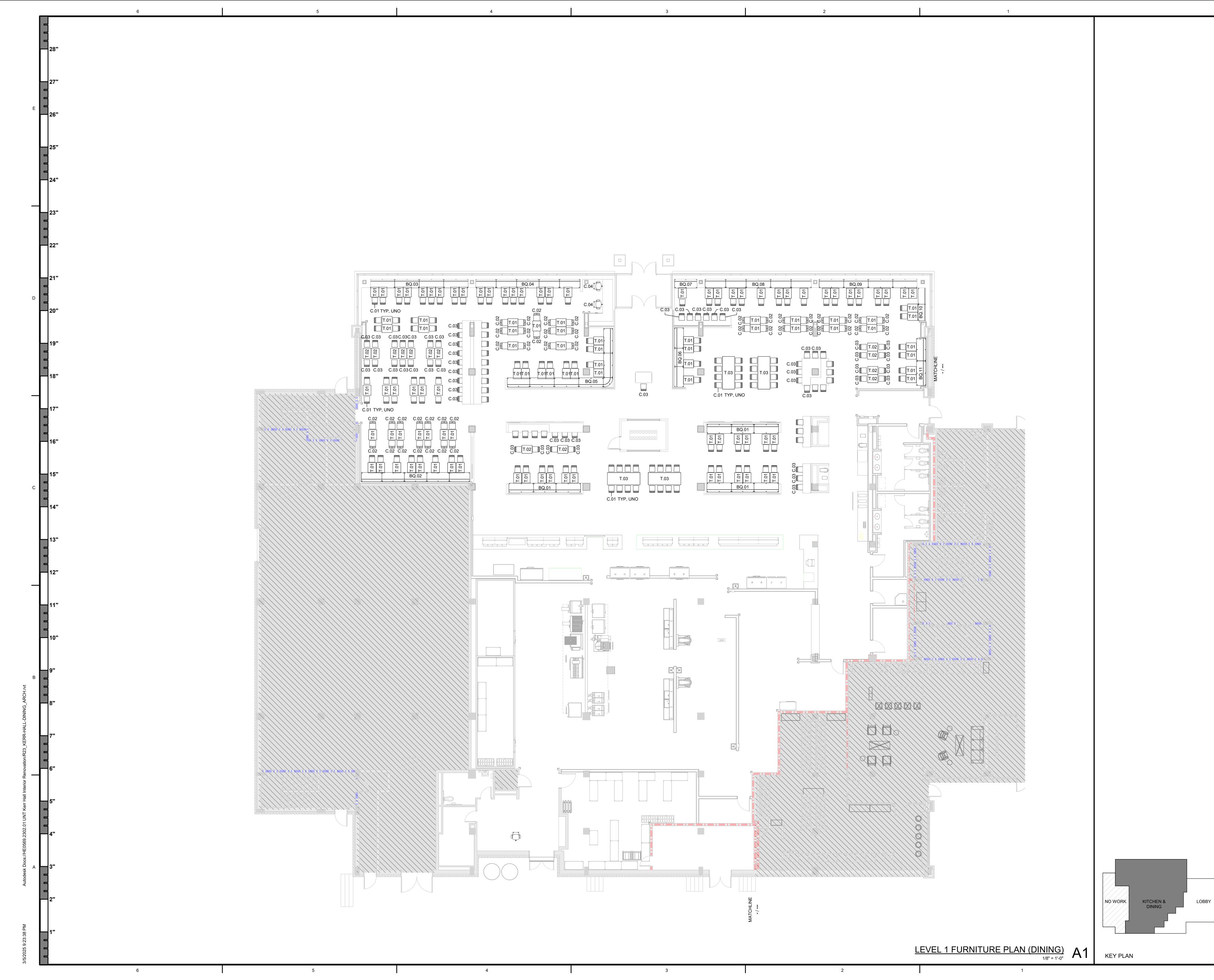
— PARTITION AS SCHEDULED — PAINT AS SCHEDULED — CONTINUOUS SEALANT — ALUM. EDGE TRIM; COORDINATE SIZE DEPTH TO FLUSH WITH FACE OF TILE (TS-1); REFER TO FINISH SCHEDULE FOR TRIM FINISH

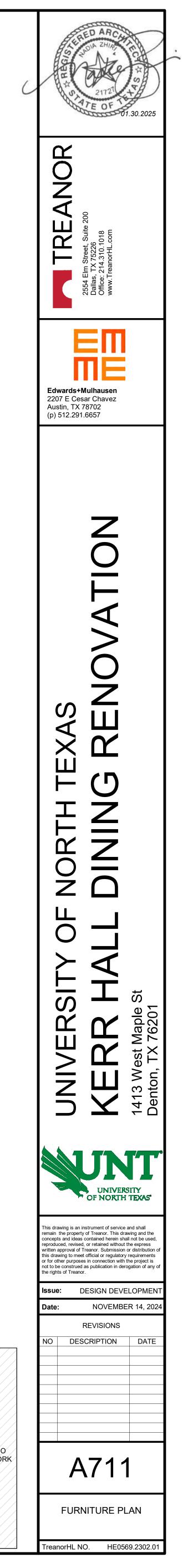
— GROUT AS SCHEDULED

— MORTAR

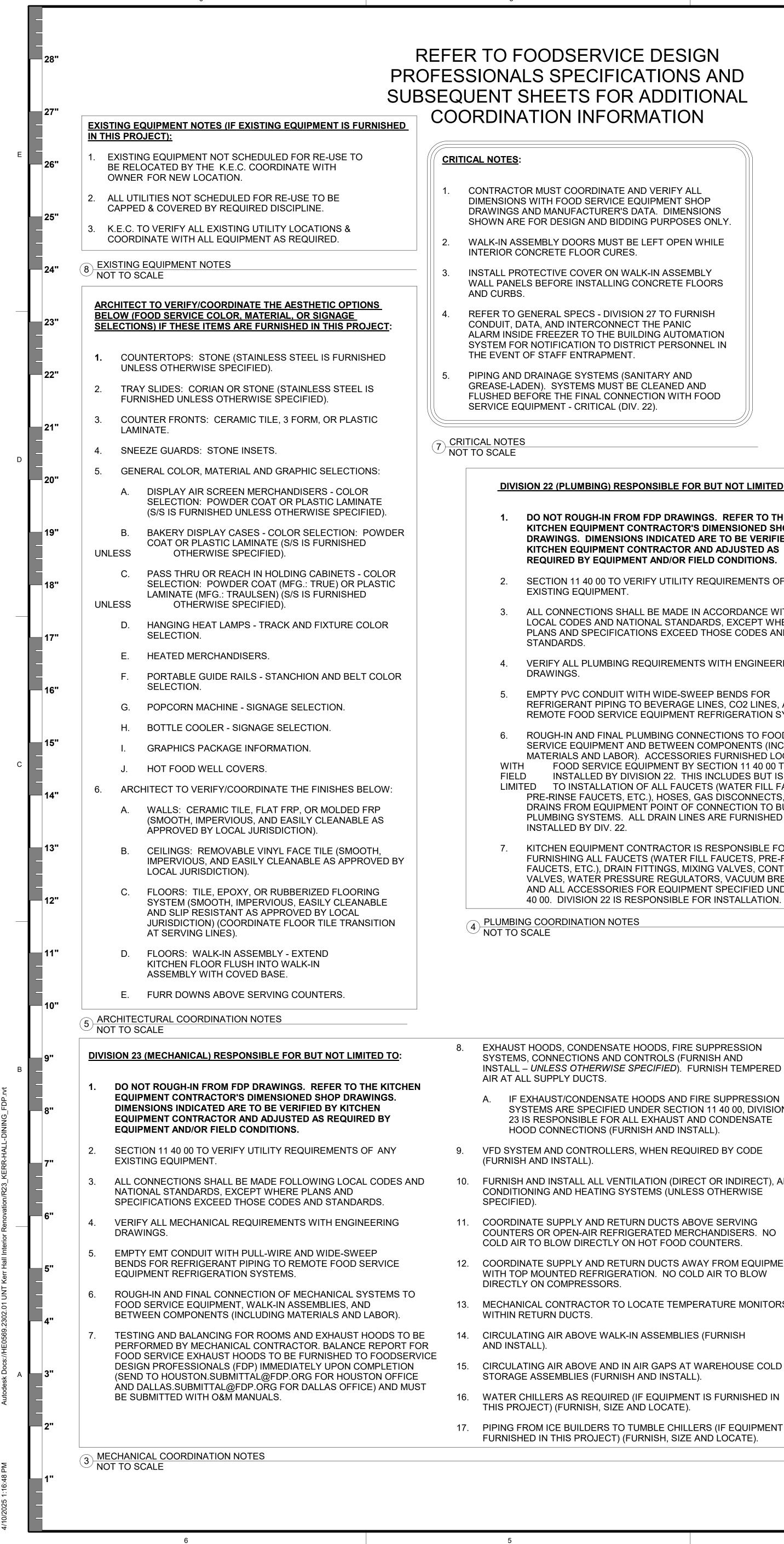
— WALL TILE AS SCHEDULED







Y NO WORK



/ICE DESIGN	DIVISION 26 (ELECTRICAL) IS RESPONSIBLE FOR BUT NOT LIMITED TO:	8.	EMPTY EMT
FICATIONS AND OR ADDITIONAL	1. DO NOT ROUGH IN FROM FDP DRAWINGS. REFER TO THE KITCHEN EQUIPMENT CONTRACTOR'S DIMENSIONED SHOP DRAWINGS. DIMENSIONS INDICATED ARE TO BE VERIFIED BY KITCHEN	9.	SYSTEM TC WALK-IN LIO 11 40 00) (IF
ORMATION	EQUIPMENT CONTRACTOR AND ADJUSTED AS REQUIRED BY EQUIPMENT AND FIELD CONDITIONS.	10.	TABLE LIMI ⁻ 40 00) (IF DI
	2. SECTION 11 40 00 TO VERIFY UTILITY REQUIREMENTS OF ANY EXISTING EQUIPMENT.	11.	, (
ATE AND VERIFY ALL ICE EQUIPMENT SHOP	3. ALL CONNECTIONS SHALL BE MADE FOLLOWING LOCAL CODES AND NATIONAL STANDARDS, EXCEPT WHERE PLANS AND SPECIFICATIONS EXCEED THOSE CODES AND STANDARDS.	12.	SWITCHES ((FURNISH, L
ER'S DATA. DIMENSIONS BIDDING PURPOSES ONLY.	4. VERIFY ALL ELECTRICAL REQUIREMENTS WITH ENGINEERING DRAWINGS.	13.	CHARGING JACKS (SIZI FURNISHED
JST BE LEFT OPEN WHILE URES.	5. ROUGH-IN AND FINAL CONNECTION OF ELECTRICAL SYSTEMS TO FOOD SERVICE EQUIPMENT, WALK-IN ASSEMBLIES, AND BETWEEN	14.	
ON WALK-IN ASSEMBLY LING CONCRETE FLOORS	COMPONENTS (INCLUDING MATERIALS AND LABOR). ACCESSORIES FURNISHED LOOSE WITH FOOD SERVICE EQUIPMENT BY SECTION 11 40 00 TO BE FIELD INSTALLED BY DIVISION 26.	15.	INTERCONN
IVISION 27 TO FURNISH NNECT THE PANIC E BUILDING AUTOMATION	 EMPTY EMT CONDUIT WITH PULL-WIRE AND WIDE-SWEEP BENDS FOR REFRIGERANT PIPING TO REMOTE FOOD SERVICE EQUIPMENT REFRIGERATION SYSTEMS. 	16.	INTERCONN EQUIPMENT
DISTRICT PERSONNEL IN MENT. /IS (SANITARY AND	7. EMPTY EMT CONDUIT WITH PULL-WIRE AND WIDE-SWEEP BENDS FOR INTERCONNECT CABLES BETWEEN LAN AND POS TERMINALS, CHANGE-MAKERS, PRE-CHECK UNITS, PRINTERS, CPUS, ETC. DIVISION 26 TO VERIFY WHERE THE CONDUIT IS TO RUN FOR POS	17.	DOOR HEAT WIRED TO J IS FURNISH CONNECTIO
JST BE CLEANED AND CONNECTION WITH FOOD AL (DIV. 22).	SYSTEM (I.E., MANAGER'S OFFICE OR IDF ROOM).	18.	IF ANY ELEC FURNISHED TO EQUIPM
	6 ELECTRICAL COORDINATION NOTES NOT TO SCALE		
) RESPONSIBLE FOR BUT NOT LIMITED	8.INDIRECT DRAIN LINE RUNS FROM EQUIPMENT TO NEAREST DRAIN OR FLOOR SINK. LINES TO BE TYPE 'K' COPPER.		21. SAF CAB

DO NOT ROUGH-IN FROM FDP DRAWINGS. REFER TO THE KITCHEN EQUIPMENT CONTRACTOR'S DIMENSIONED SHOP DRAWINGS. DIMENSIONS INDICATED ARE TO BE VERIFIED BY KITCHEN EQUIPMENT CONTRACTOR AND ADJUSTED AS **REQUIRED BY EQUIPMENT AND/OR FIELD CONDITIONS.**

SECTION 11 40 00 TO VERIFY UTILITY REQUIREMENTS OF ANY

ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH LOCAL CODES AND NATIONAL STANDARDS, EXCEPT WHERE PLANS AND SPECIFICATIONS EXCEED THOSE CODES AND

VERIFY ALL PLUMBING REQUIREMENTS WITH ENGINEERING

EMPTY PVC CONDUIT WITH WIDE-SWEEP BENDS FOR REFRIGERANT PIPING TO BEVERAGE LINES, CO2 LINES, AND REMOTE FOOD SERVICE EQUIPMENT REFRIGERATION SYSTEMS.

ROUGH-IN AND FINAL PLUMBING CONNECTIONS TO FOOD SERVICE EQUIPMENT AND BETWEEN COMPONENTS (INCLUDING MATERIALS AND LABOR). ACCESSORIES FURNISHED LOOSE FOOD SERVICE EQUIPMENT BY SECTION 11 40 00 TO BE INSTALLED BY DIVISION 22. THIS INCLUDES BUT IS NOT TO INSTALLATION OF ALL FAUCETS (WATER FILL FAUCETS, WIT PRE-RINSE FAUCETS, ETC.), HOSES, GAS DISCONNECTS, AND DRAINS FROM EQUIPMENT POINT OF CONNECTION TO BUILDING PLUMBING SYSTEMS. ALL DRAIN LINES ARE FURNISHED AND

KITCHEN EQUIPMENT CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL FAUCETS (WATER FILL FAUCETS, PRE-RINSE FAUCETS, ETC.), DRAIN FITTINGS, MIXING VALVES, CONTROL VALVES, WATER PRESSURE REGULATORS, VACUUM BREAKERS, FOL AND ALL ACCESSORIES FOR EQUIPMENT SPECIFIED UNDER 11 40 00. DIVISION 22 IS RESPONSIBLE FOR INSTALLATION.

		8.	INDIRECT DRAIN LINE RUNS FROM EQUIPMENT TO NEAREST DRAIN OR FLOOR SINK. LINES TO BE TYPE 'K' COPPER.		21.	SAF CAE
	то	9.	IF ANY PLUMBING ACCESSORIES OR FITTINGS ARE FURNISHED LOOSE WITH EQUIPMENT BY 11 40 00, DIV. 22 IS TO ATTACH EQUIPMENT AND FURNISH FINAL CONNECTION.		22.	SPE FUR
	10	10.	GAS SUPPLY SYSTEMS WITH ALL COMPONENTS AND FITTINGS AS REQUIRED FOR A COMPLETE SYSTEM.		23.	air Fur
		11.	WATER SUPPLY SYSTEMS WITH ALL COMPONENTS AND FITTINGS AS REQUIRED FOR A COMPLETE SYSTEM.		24.	WA ⁻ FUF
		12.	COMPRESSED AIR SYSTEMS WITH ALL COMPONENTS AND FITTINGS AS REQUIRED FOR A COMPLETE SYSTEM (IF REQUIRED		25.	PRE FUR
		13.	FOR THIS PROJECT). PIPING AND DRAINAGE SYSTEMS (SANITARY AND GREASE-		26.	HAN INS ⁻ REC
			LADEN). SYSTEMS MUST BE CLEANED AND FLUSHED BEFORE THE FINAL CONNECTION WITH FOOD SERVICE EQUIPMENT - CRITICAL.		27.	DEG
5_		14.	FLOOR SINKS (FURNISH AND INSTALL). FLANGE AND GRATES TO BE FLUSH WITH FINISHED FLOOR.	THIS	28.	PRO
		15.	FLOOR DRAINS (FURNISH AND INSTALL). FLANGE AND GRATES TO BE FLUSH WITH FINISHED FLOOR.		29.	FUR
,	WITH	16. I	TRENCH DRAINS (FURNISH AND INSTALL). TRENCH LINERS FURNISHED BY 11 40 00. FLANGE AND LINERS TO BE FLUSH FINISHED FLOOR.			INC INS BAC A M
l		17.	GREASE TRAPS AS REQUIRED. VERIFY WITH LOCAL CODES TO BYPASS OR PIPE THRU GREASE TRAP AND/OR INTERCEPTOR.			WA RIM SHA
		18.	P-TRAPS AS REQUIRED (INCLUDING ALL DISPOSERS).			COE REC
	FURN	19. NISHEI	INTERCONNECT WATER THRU WATER FILTER (FILTER D BY 11 40 00 UNLESS OTHERWISE SPECIFIED) TO		30.	JAN
,	EQUI	PMEN 20.			31.	FRE REC (FUI
		20.	FURNISHED BY 11 40 00).			

GENERAL CONTRACTOR RESPONSIBLE FOR BUT NOT LIMITED TO:

- ANY WALL PENETRATION REQUIRED FOR FOOD SERVICE EQUIPMENT UTILIT ESCUTCHEON PLATES OR S/S SLEEVES TO BE FURNISHED AND INSTALLED A
- BULK FREEZER VENTILATION PIPE (IF BULK FREEZER IS FURNISHED IN THIS
- (FURNISH AND INSTALL, UNLESS OTHERWISE SPECIFIED).
- CORE DRILLING FOR GUIDE RAILS (IF GUIDE RAILS ARE FURNISHED IN THIS F
- REFRIGERATION ROOF CURBS / ROOF JACK (IF REFRIGERATION SYSTEM IS F THIS PROJECT AND LOCATED ON ROOF).
- INTERIOR BOLLARDS (IF REQUIRED FOR THIS PROJECT) TO BE EPOXY PAIN CODES (FURNISH AND INSTALL).
- FURNISH AND INSTALL 3/4" PLYWOOD BLOCKING IN THE WALL FOR MOUNTI FURNISHED BY SECTION 11 40 00 AS REQUIRED.
- WALK-IN DEPRESSIONS (TO BE DEAD LEVEL) AND SAND LEVELING BED (IF WA FURNISHED IN THIS PROJECT AND RECESS IS SHOWN).
- STRUCTURAL BRACING FOR BULK WALK-IN CEILING PANELS IF REQUIRED.
- MENU SYSTEM VIDEO MONITORS IN SERVERY (UNLESS OTHERWISE SPECIF
- 10. STRUCTURAL BRACING FOR MENU SYSTEM VIDEO MONITORS IF REQUIRED.
- 11. INTERIOR/EXTERIOR REFRIGERATION PENETRATIONS AND SLEEVES AT BUIL PENETRATIONS.
- 12. DOORSCOPE VIEWER (PEEPHOLE) WITH WIDE VIEWING ANGLE AT RECEIVING
- 13. CANOPY AT RECEIVING DOOR. COORDINATE HEIGHT WITH THE HEIGHT OF F DOOR (8') AND THE MOUNTING HEIGHT OF AIR SCREEN ABOVE THE DOOR.
- 14. SOAP AND TOWEL DISPENSER FURNISHED BY OWNER. G.C. RESPONSIBLE F INSTALLATION.
- WASHER AND DRYER (FURNISH AND INSTALL, UNLESS OTHERWISE SPECIFIE 15
- 16. DWARF WALL AT EXPOSED FRONT/ENDS OF CAFETERIA SERVING COUNTERS AS SELECTED BY ARCHITECT (IF REQUIRED IN THIS PROJECT).

3

GENERAL CONTRACTOR COORDINATION NOTES 2 NOT TO SCALE

A. IF EXHAUST/CONDENSATE HOODS AND FIRE SUPPRESSION SYSTEMS ARE SPECIFIED UNDER SECTION 11 40 00, DIVISION 23 IS RESPONSIBLE FOR ALL EXHAUST AND CONDENSATE

10. FURNISH AND INSTALL ALL VENTILATION (DIRECT OR INDIRECT). AIR CONDITIONING AND HEATING SYSTEMS (UNLESS OTHERWISE

11. COORDINATE SUPPLY AND RETURN DUCTS ABOVE SERVING COUNTERS OR OPEN-AIR REFRIGERATED MERCHANDISERS. NO COLD AIR TO BLOW DIRECTLY ON HOT FOOD COUNTERS.

12. COORDINATE SUPPLY AND RETURN DUCTS AWAY FROM EQUIPMENT WITH TOP MOUNTED REFRIGERATION. NO COLD AIR TO BLOW

13. MECHANICAL CONTRACTOR TO LOCATE TEMPERATURE MONITORS

14. CIRCULATING AIR ABOVE WALK-IN ASSEMBLIES (FURNISH

15. CIRCULATING AIR ABOVE AND IN AIR GAPS AT WAREHOUSE COLD STORAGE ASSEMBLIES (FURNISH AND INSTALL).

16. WATER CHILLERS AS REQUIRED (IF EQUIPMENT IS FURNISHED IN

17. PIPING FROM ICE BUILDERS TO TUMBLE CHILLERS (IF EQUIPMENT IS FURNISHED IN THIS PROJECT) (FURNISH, SIZE AND LOCATE).

	2	1

CONDUIT WITH PULL-WIRE AND WIDE-SWEEP BENDS FOR RESSION SYSTEMS. INTERCONNECT FIRE PROTECTION PANEL BOX SHUNT TRIPS AND BUILDING ALARM.

GHT FIXTURE INSTALLATION (FURNISHED LOOSE BY SECTION WALK-IN IS FURNISHED IN THIS PROJECT).

SWITCH INSTALLATION (FURNISHED LOOSE BY SECTION 11 SHMACHINE IS FURNISHED IN THIS PROJECT).

L MATERIALS AND DEVICES (SHUNT-TRIP BREAKERS, SURGE RS. LIGHTING CONTROL DEVICES, CONDUIT, WIRE, ETC.).

AND STAINLESS STEEL DISCONNECTS AS REQUIRED LOCATE, AND INSTALL – TO BE IN AN ACCESSIBLE LOCATION)

STATIONS FOR FORKLIFTS, PALLET STACKERS, AND PALLET E, FURNISH, LOCATE, AND INSTALL) (IF EQUIPMENT IS IN THIS PROJECT).

NECTION BETWEEN CONDENSATE FAN AND DISHMACHINE PANEL (IF EQUIPMENT IS FURNISHED IN THIS PROJECT).

VECTION BETWEEN EXHAUST HOOD FANS AND SWITCH (IF IS FURNISHED IN THIS PROJECT).

NECTION BETWEEN EXHAUST HOOD LIGHTS AND SWITCH (IF IS FURNISHED IN THIS PROJECT).

ERS, LIGHTS, COILS, AND PRESSURE RELIEF PORTS PRE-JUNCTION BOX AT TOP OF WALK-IN ASSEMBLIES (IF EQUIPMENT ED IN THIS PROJECT) FURNISHED BY SECTION 11 40 00. FINAL ON BY DIV. 26.

CTRICAL ACCESSORIES, FITTINGS, AND CORD/PLUGS ARE LOOSE WITH EQUIPMENT BY 11 40 00, DIV.26 IS TO ATTACH MENT AND FURNISH FINAL CONNECTION.

ETY RESTRAINT CABLE INSTALLATION (SAFETY RESTRAINT BLE FURNISHED BY 11 40 00).

ECIFIED COUPLINGS AND PIPING TO ALL EQUIPMENT RNISHED BY 11 40 00.

R COMPRESSORS (IF REQUIRED FOR THIS PROJECT) (SIZE, RNISH, AND INSTALL, UNLESS OTHERWISE SPECIFIED).

ATER SOFTENERS (IF REQUIRED FOR THIS PROJECT) (SIZE,

IRNISH, AND INSTALL, UNLESS OTHERWISE SPECIFIED).

RESSURE BOILERS (IF REQUIRED FOR THIS PROJECT) (SIZE) RNISH, AND INSTALL, UNLESS OTHERWISE SPECIFIED).

ND SINKS (FURNISH (UNLESS OTHERWISE SPECIFIED) AND STALL). FURNISH HOT WATER TEMPERING VALVE IF EQUIRED. WATER TEMPERATURE TO BE AT LEAST 100 GREES AND FLOW FOR AT LEAST 20 SECONDS.

E BIN DRAIN INSULATION (IF ICE MACHINE IS FURNISHED IN ROJECT) (FURNISH AND INSTALL).

NONS AT DISPOSER SOLENOID VALVES (IF DISPOSER IS RNISHED IN THIS PROJECT) (FURNISH AND INSTALL).

CK FLOW PREVENTION AS REQUIRED (FURNISH AND INSTALL -CLUDING ALL DISPOSERS). BACK- SIPHONAGE SHALL BE STALLED AT ALL FIXTURES AND EQUIPMENT WHERE ACKFLOW AND/OR BACK-SIPHONAGE MAY OCCUR AND WHERE INIMUM AIR GAP CANNOT BE FURNISHED BETWEEN THE ATER TO THE FIXTURE OR EQUIPMENT AT ITS FLOOD/LEVEL M. VACUUM BREAKERS. WHEN FURNISHED WITH EQUIPMENT. ALL OVERRIDE THE ABOVE, IF ACCEPTABLE WITH APPLICABLE DES. DIVISION 22 RESPONSIBLE FOR VERIFYING EQUIREMENT WITH LOCAL CODES.

NITOR SINK WITH FAUCET (FURNISH AND INSTALL).

EEZE PROOF HOSE BIBB AT EXTERIOR OF BUILDING BY CEIVING DOOR (IF SHOWN ON FOOD SERVICE PLANS) JRNISH AND INSTALL).

FURNISH WATERPROOF RECEPTACLES IN WET AREAS.

- 20. ALL ELECTRICAL CONNECTIONS BENEATH EXHAUST HOODS (IF EQUIPMENT IS FURNISHED IN THIS PROJECT) TO EXTEND TO SHUNT TRIP BREAKERS WITH ELECTRICAL PANEL BOX FOR SHUTDOWN DURING FIRE MODE.
- RECEPTACLES ARE TO BE PRE-WIRED TO THE JUNCTION BOX OR 21. LOAD CENTER FOR FINAL CONNECTION BY DIVISION 26.
- 22. ALL ELECTRICAL LIGHTING, POWER, AND DISTRIBUTION SYSTEMS.
- 23. DO NOT INTERCONNECT MORE THAN THREE (3) CONVENIENCE OUTLETS ON ONE (1) BREAKER.
- 24. OTHER THAN CONVENIENCE OUTLETS, ALL ELECTRICAL CONNECTIONS SHOWN ON FOOD SERVICE PLANS ARE DEDICATED BREAKERS.
- DOORBELL AT RECEIVING DOOR (FURNISH AND INSTALL TO BE 25. AUDIBLE THROUGHOUT KITCHEN, OFFICE, AND DRY STORAGE ROOM
- ADEQUATE LIGHTING AT RECEIVING DOOR. 26.
- 27. FURNISH AND INSTALL TWO EMERGENCY STROBE BEACONS THAT INTERCONNECT TO PANIC ALARM IN WALK-IN FREEZER. ONE (1) IN KITCHEN ABOVE WALK-IN FREEZER DOOR ONE (1) IN CAFETORIUM (II WALK-IN IS FURNISHED IN THIS PROJECT). REFER TO GENERAL SPECIFICATIONS FOR ADDITIONAL DETAILS.
- DEDICATED CIRCUIT FOR HEATED DRAIN LINE CONNECTION IN WALK-27 IN FREEZER AT EACH COIL (IF WALK-IN IS FURNISHED IN THIS PROJECT

NOTE: ELECTRICAL CONNECTIONS INDICATED ARE THOSE REQUIRED FOR THE FOOD SERVICE EQUIPMENT AND THOSE REQUIRED FOR SUPPORT EQUIPMENT FURNISHED BY DIVISION 26. FOR ADDITIONAL REQUIREMENTS **REFER TO THE ELECTRICAL ENGINEER'S DRAWINGS.**

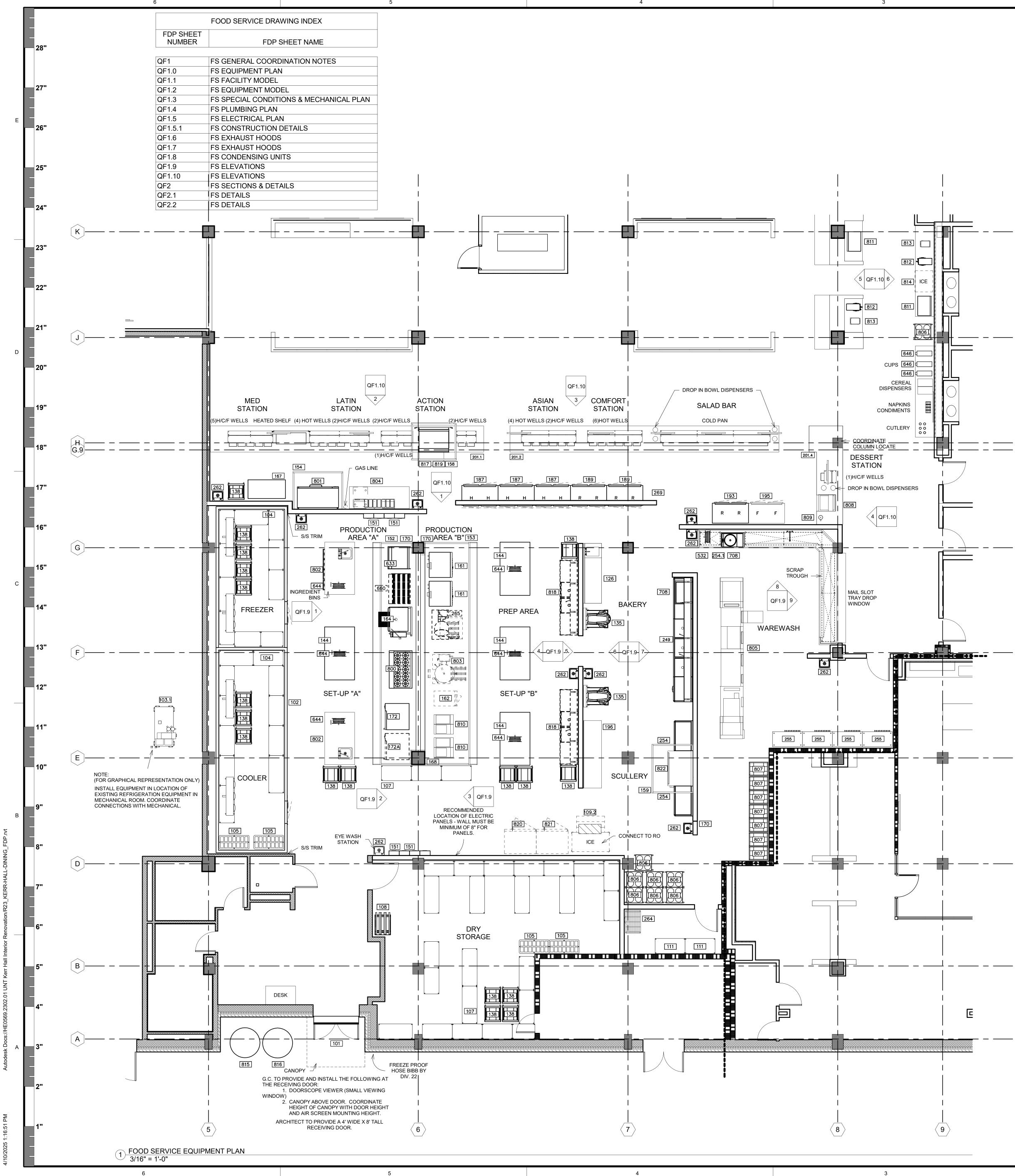
- 32. REVERSE OSMOSIS SYSTEMS (SIZE, FURNISH (UNLESS OTHERWISE SPECIFIED), LOCATE AND INSTALL).
- 33. ALL PIPING WITHIN COUNTER BODY OR UNDER FABRICATED COUNTERS TO BE RUN TO A CONNECTION POINT BELOW COUNTER BODY BY SECTION 11 40 00. FINAL CONNECTION BY DIVISION 22.
- 34. EXHAUST HOOD CONDENSATE DRAIN CONNECTIONS (IF EXHAUST HOOD IS FURNISHED IN THIS PROJECT) (FURNISH AND INSTALL).
- 35. INTERCONNECTION OF 1/2" CW TO PRE-RINSE AND DISPOSERS CONE/BODY INLETS PIPED THROUGH SOLENOID AND VACUUM BREAKER (IF DISPOSER IS FURNISHED IN THIS PROJECT).
- 36. FIRE SYSTEM PIPING. EXPOSED PIPING TO BE CHROME PLATED.
- 37. PIPE 1/2" COLD WATER TO SWIRL INLETS AT DISPOSERS (IF DISPOSER IS FURNISHED IN THIS PROJECT).
- 38. WATER TREATMENT FOR ICE BUILDERS (NON-CHLORINATED WATER WITH A PH LEVEL OF 10 OR HIGHER) AND ANY DRAINS AND OVERFLOWS. PIPING FROM ICE BUILDERS TO TUMBLE CHILLERS BY DIV. 23 (IF ICE BUILDERS AND TUMBLE CHILLERS ARE FURNISHED IN THIS PROJECT).

NOTE: WATER AND DRAIN CONNECTIONS INDICATED ARE THOSE REQUIRED FOR THE FOOD SERVICE EQUIPMENT AND THOSE **REQUIRED FOR SUPPORT EQUIPMENT FURNISHED BY DIVISION 22.** FOR ADDITIONAL WATER AND DRAIN REQUIREMENTS REFER TO **MECHANICAL DRAWINGS.**

NOTE: REFER TO ELECTRICAL/MECHANICAL DRAWINGS FOR REQUIREMENTS OF EXHAUST FANS AND MAKE-UP AIR HANDLERS AND LOCATION OF AN INTERLOCK AND START/STOP CONTROLS TO BE LOCATED WITHIN FOOD SERVICE AREA BY DIVISION 26.

	HEALTH DEPARTMENT REQUIREMENTS (VERIFY WITH LOCAL JURISDICTIONS):
	1. FLOORS: VERIFY WITH DIVISION 9. FLOORS TO BE SMOOTH, IMPERVIOUS, EASILY CLEANABLE AND SLIP RESISTANT.
TIES. AS NEEDED.	2. WALLS: VERIFY WITH ARCHITECTURAL DOCUMENTS. WALLS TO BE SMOOTH, IMPERVIOUS, AND EASILY CLEANABLE.
S PROJECT)	3. CEILING: LAY-IN TILES. CEILING TILES TO BE SMOOTH, IMPERVIOUS, AND EASILY CLEANABLE.
PROJECT).	4. EMPLOYEE TOILET: TO BE LOCATED OFF MAIN CORRIDOR AND ADJACENT TO MAIN KITCHEN. RESTROOM MUST HAVE A VESTIBULE AND NOT OPEN TO KITCHEN / PREP AREAS. TOILETS TO BE WELL VENTILATED.
	5. LAVATORIES: WALL HUNG LAVATORIES LOCATED WITHIN ALL FUNCTIONAL WORKING AREAS.
INTED PER LOCAL	6. UTENSIL CLEANING/SANITIZING: ACCOMPLISHED IN UTENSIL WASH AREA WITH (3) 2'-0" x 2'-2" x 15" MINIMUM DEEP SINKS AND WAREWASH MACHINE.
	7. MECHANICAL CLEANING/SANITIZING OF TABLEWARE: ACCOMPLISHED BY WAREWASH MACHINE.
TING EQUIPMENT	8. STOREROOMS: AMPLE DAILY STORAGE FURNISHED IN ENCLOSED STORE ROOMS. STORE ROOMS TO BE VENTILATED AND MAINTAIN PROPER TEMPERATURE.
WALK-IN IS	9. WATER HEATER: LOCATED IN THE MECHANICAL ROOM ADJACENT TO KITCHEN. TO BE SIZED TO FURNISH AMPLE WATER TO MAINTAIN PROPER WATER TEMPERATURE THROUGHOUT HOURS OF OPERATION.
	10. GREASE TRAP: LOCATED AT EXTERIOR OF BUILDING. REFER TO ENGINEER'S DRAWINGS.
FIED).). IILDING	11. FOOD SERVICE EQUIPMENT: ALL FLOOR-MOUNTED EQUIPMENT IS TO BE SEALED TO THE FLOOR TO FURNISH AN EASILY CLEANABLE SURFACE AND PREVENT SEEPAGE. EQUIPMENT NOT MOUNTED TO THE FLOOR IS TO BE WALL MOUNTED ON WALL CARRIERS, OR ELEVATED ON LEGS TO FURNISH AT LEAST A SIX- INCH CLEARANCE BETWEEN FLOOR AND EQUIPMENT.
NG DOOR.	12. MOP SINK: LOCATED IN JANITOR CLOSET OFF MAIN KITCHEN CORRIDOR, AND LOCATED IN CLOSE PROXIMITY TO THE SERVERY WAREWASH AREA.
RECEIVING	13. EXHAUST HOODS: EXHAUST HOODS FURNISHED OVER COOKING EQUIPMENT WITH LIQUID CHEMICAL ANSUL FIRE EXTINGUISHING SYSTEM.
FOR	14. LIGHTING AND PROTECTIVE SHIELDING: RECESSED CEILING-MOUNTED FLUORESCENT LIGHT FIXTURES FITTED WITH CLEAR LEXAN DIFFUSERS.
TED).	15. GARBAGE AND REFUSE: CENTRAL TRASH COLLECTION FURNISHED FOR BUILDING LOCATED NEAR RECEIVING AREA ON SMOOTH CONCRETE SURFACE.
RS WITH FINISH	16. POISONOUS AND TOXIC MATERIAL STORAGE: LOCATED IN RESPECTIVE JANITOR CLOSETS WITH LOCKING HARDWARE.
	1 HEALTH DEPARTMENT COORDINATION NOTES
	V NOT TO SCALE

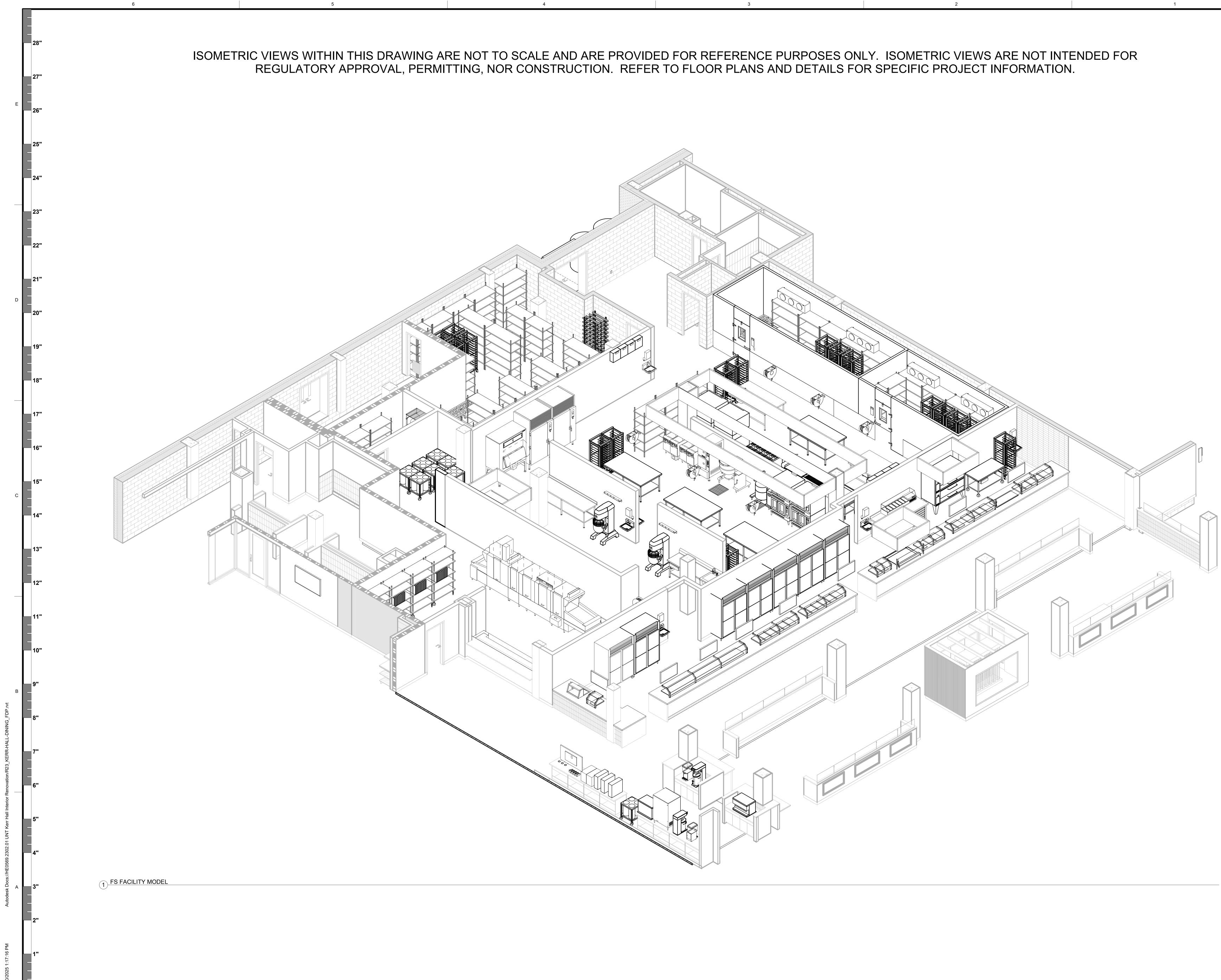
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	express written approval of Treanor. Submission or distribution of this drawing to meet official or regulatory requirements or for other purposes in connection with the project is not to be construed as publication in derogation of any of the rights of Treanor. Issue: ISSUE FOR CONSTRUCTION Date: APRIL 08, 2025 REVISIONS NO DESCRIPTION DATE DESCRIPTION NOTES	A
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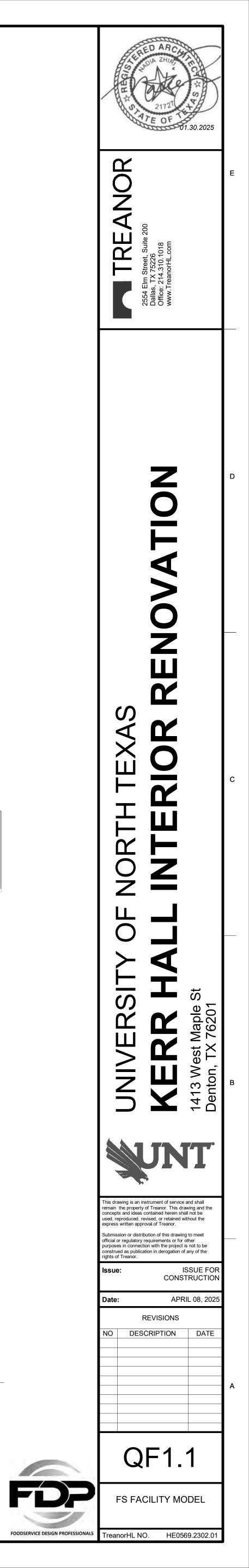


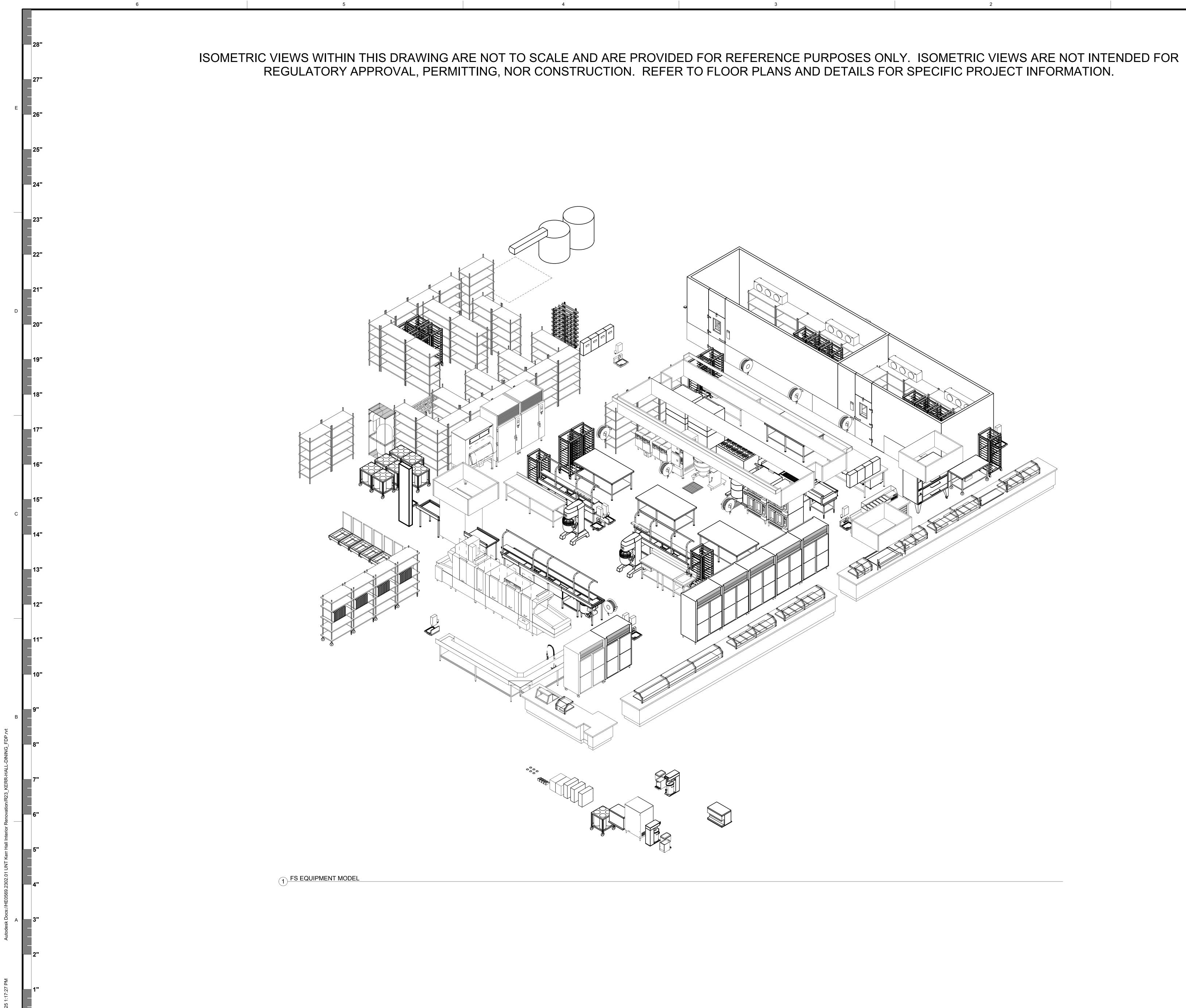
	-	1 FOR GENERAL CONTRACTOR & HEALTH DEPAR	
FDP ITEM	FDP QTY	FDP DESCRIPTION	FDP RE
101	1	AIR SCREEN	
102	1	COLD STORAGE ASSEMBLY	
103.1	1	COLD STORAGE REFRIGERATION SYSTEM	EXIST. MECHAI
104	2	COLD STORAGE SHELVING	OWNER FURNI
105	4		OWNER FURNI
107 108	2	DRY STORAGE SHELVING CAN RACK	OWNER FURN
109.2	1	ICE MACHINE	EXISTING / REI
111	2	CHEMICAL SHELF	OWNER FURNI
126	1	BACK COUNTER	
135	2	60 QUART MIXER	EXISTING / REI
138 144	18 4	PAN RACK WORKTABLE W/DBL.BAR UT.RACK	OWNER FURNI
144 151	4	FIRE PROTECTION SYSTEM	
152	1	EXHAUST HOOD	
153	1	EXHAUST HOOD	
154	1	EXHAUST HOOD	
158	1	ISLAND EXHAUST HOOD	
159	1		
161 162	2	CONVECTION OVEN DBL CONVECTION STEAMER - GAS	EXISTING / REI
164	1	40 GAL. TILT BRAISING PAN-GAS MANUAL TILT	
167	1	MOBILE PIZZA CUTTING TABLE	
168	1	S/S WALL CAP	
170	3	S/S WALL PANEL	
172	1	COMBIOVEN	
172A	1		EXISTING / REI
187 189	3	PASS-THRU HEATED CABINET- 2DR PASS-THRU REFRIGERATOR - 2DR	
193	1	REACH-IN REFRIGERATOR - 2DR	
195	1	REACH-IN FREEZER - 2DR	
196	1	BACK COUNTER	
201.1	1	HOT ACTION COUNTER	
201.2	1	HOT SERVICE COUNTER	
201.4 249	1	DESSERT COUNTER THREE COMPARTMENT SINK W/DISPOSER	
249 254	2	SOILED & CLEAN DISHTABLE	
254.1	1	MAIL SLOT DISHTABLE	
255	4	MOBILE DRYING RACK	
262	10	HAND SINK	
264	1	REVERSE OSMOSIS SYSTEM & RACK	
265 269	1	40 GAL. TILT KETTLE S/S CORNER GUARDS	EXISTING / REI
532	1	HOSE REEL	
633	1	GRIDDLE W/ STAND	
644	6	ELECTRIC CORD REEL	PROVIDED BY
646	3	CUP DISPENSER	OWNER FURNI
660	1	CHARBROILER	EXISTING / REI
708 800	2	SCRAP COLLECTOR 10 BURNER RANGE	
801	1	DECK OVEN	
802	2	WORKTABLE W-SINK	
803	1	KETTLE 60 GALLON	EXISTING / REI
804	1	MARBLE TOP PIZZA PREP TABLE	
805	1		
806 807	8	POKER CHIP DOLLY GLASS RACK DOLLY	OWNER FURN
808	1	ICE CREAM DIPPING CABINET	
809	1	DIPPER WELL	
810	2	FRYER BATTERY	
811	2	BEVERAGE DISPENSER	PURVEYOR PR
812	2	TEA & COFFEE BREWER	PURVEYOR PR
813	2		
814 815	1	ICE MACHINE CO2 BULK STORAGE TANK	EXISTING / REI
010	I		PURVEYOR IN
816	1	OIL RECYCLE TANK	PURVEYOR PR
0.47			PURVEYOR IN
817 818	1	REFRIGERATED CHEF'S BASE	
818 819	2	POWER SOAK SINK COUNTER TOP GRIDDLE	EXISTING / REL
820	1	BLAST CHILLER	EXISTING / REI
821	1	BLAST CHILLER	EXISTING / REL
822	1	POT & PAN WASHER	

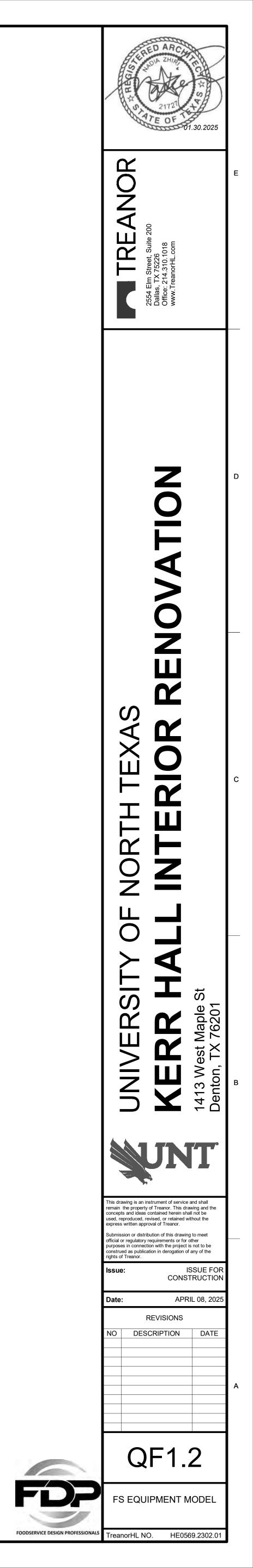
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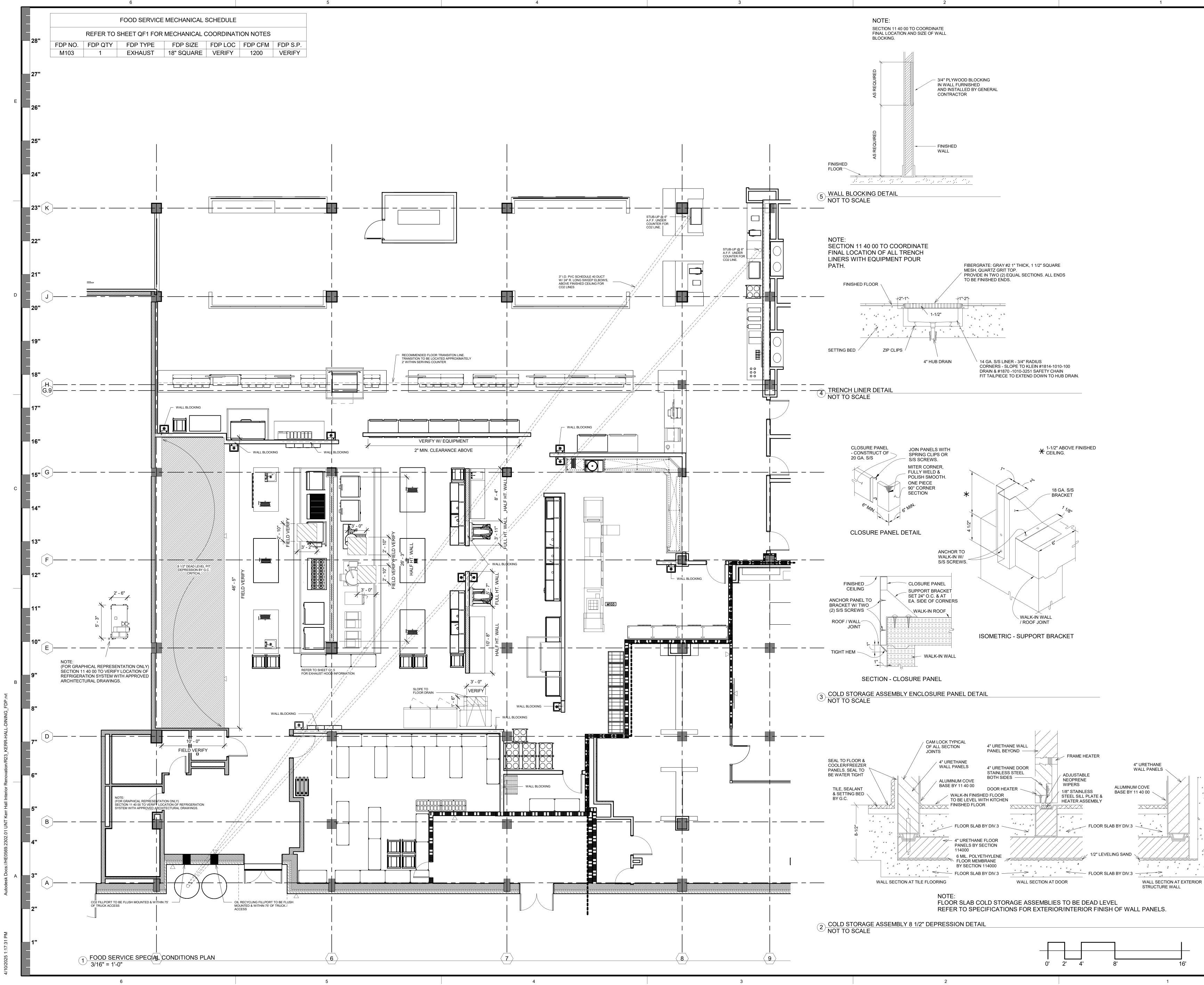
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FDP	QF1.0 FS EQUIPMENT PLAN	
OODSERVICE DESIGN PROFESSIONALS	TreanorHL NO. HE0569.2302.01	

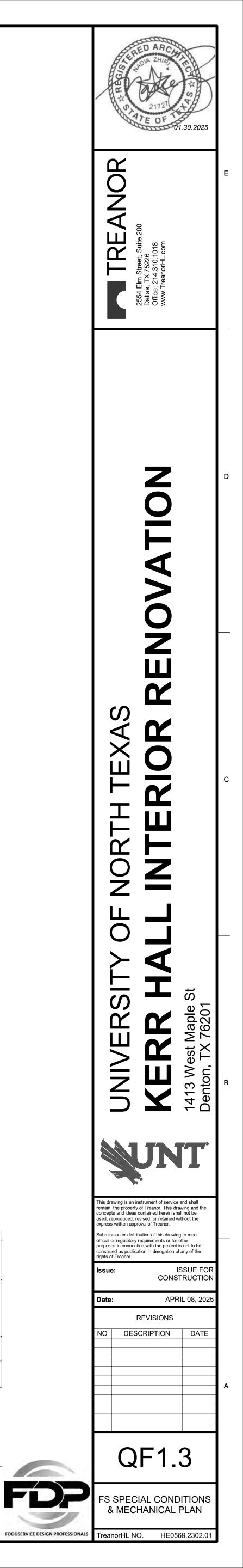


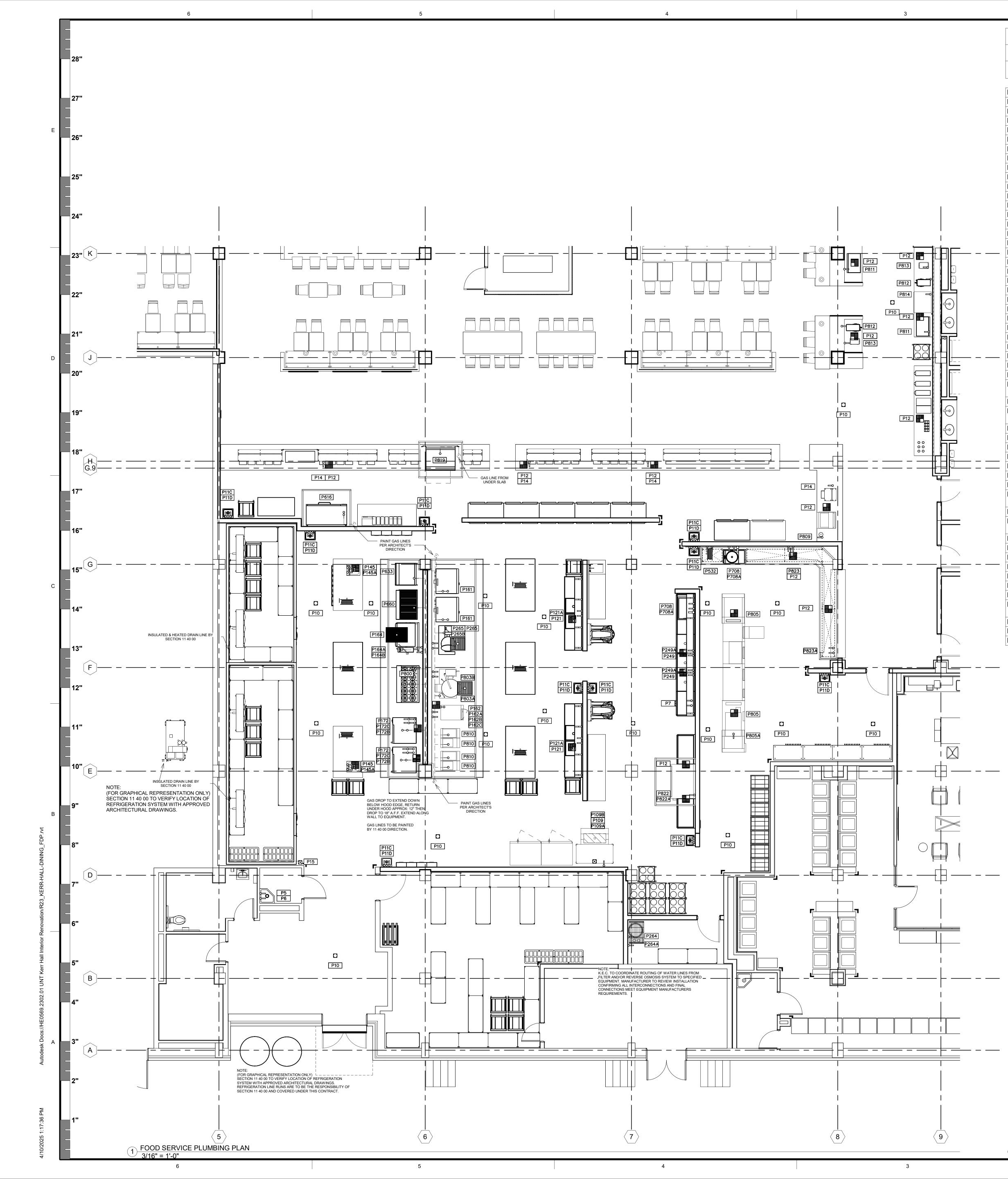












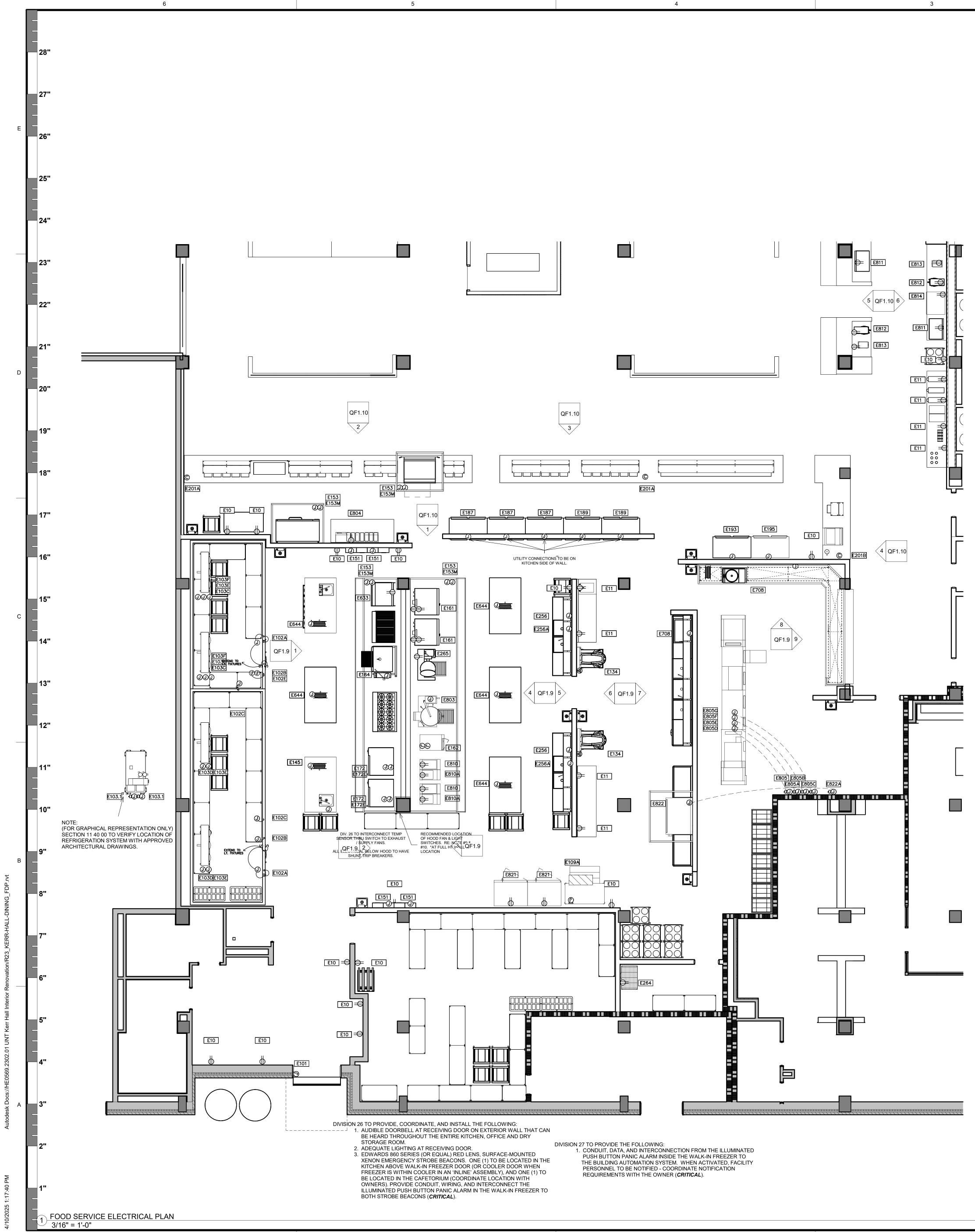
			FOOD SERVICE PLUMBING	SCHEDU	ILE	
			REFER TO SHEET QF1 FOR PLUMBING	COORDII		IOTES
FDP PNO	FDP PSIZE	FDP PCONN	FDP PSERVICE TO	FDP PLOC	FDP PAFF	FDP PREMARKS
P5	3/4"	H & C WATER	JANITOR SINK	WALL	48"	BTC
P6	4"	FLOOR DRAIN	JANITOR SINK		VERIFY	BTC
P7	3/4"	H & C WATER	HOSE BIBB	WALL	18"	BTC:
P10	VERIFY	FLOOR DRAIN	GENERAL AREA DRAIN		VERIFY	LOCATE PER ENGINEER'S DRAWIN
P11C	1/2"	H & C WATER	FAUCET	WALL	18"	FURNISHED & INSTALLED BY DIV. 2
P11D	1 1/2"		HAND SINK	WALL	15"	FURNISHED & INSTALLED BY DIV. 2
P12	12"SQ.		EQUIPMENT	FLOOR		
P14 P15	1/2" 4"	COLD WATER FLOOR DRAIN	FILL FAUCET FUNNEL FLOOR DRAIN	FLOOR FLOOR		BTC; S/S FLEX HOSE TO FILL FAUC
P109	3/4"	COLD WATER	WATER FILTER/ ICE	WALL	60"	BTC
P109A			ICE MACHINE	FLOOR		3/4 GRATE
P109B		HUB DRAIN	TRENCH LINER	FLOOR		BTC, CRITICAL LOCATION
P121	3/4"	H & C WATER	FAUCET	WALL	13"	BTC
P121A	12" SQ.	FLOOR SINK	SINK	FLOOR	0"	3/4 GRATE
P145	3/4"	H & C WATER	FAUCET	FLOOR	10"	BTC
P145A		FLOOR SINK	SINK	FLOOR		3/4 GRATE
P161	(2)3/4"	NATURAL GAS	CONVECTION OVEN	WALL	18"/36"	BTC: 60 MBTU/HR EACH
P162		FLOOR SINK	CONVECTION STEAMER	FLOOR		3/4 GRATE
			CONVECTION STEAMER	WALL	18"/48"	BTC: INTERCONNECT THRU WATER
	(2) 3/4" (2) 3/4"		CONVECTION STEAMER CONVECTION STEAMER	WALL	15"/45"	BTC: BTC: 72 MBTU/HR EA.
P164	(2) 3/4	HUB DRAIN	TRENCH LINER	FLOOR		BTC: CRITICAL LOCATION
P164A		NATURAL GAS	TILT BRAISING PAN	WALL	18"	BTC: RE: NOTE #3 & #9 - 144 MBTU/
P164B		H & C WATER	TILT BRAISING PAN	WALL	36"	BTC:
P172	(2)3/4"	COLD WATER	COMBIOVEN	WALL	24"/48"	BTC: INTERCONNECT THRU FILTER
P172B		FLOOR SINK	EQUIPMENT	FLOOR	0"	3/4 GRATE
P172C	(2)3/4"	NATURAL GAS	COMBI OVEN	WALL	18"/36"	BTC: 98 MBTU/HR EACH
P249	3/4"	H & C WATER	FAUCET	WALL	13"	BTC:
P249A			SINK	FLOOR		THREE QUARTER GRATE
P264	3/4"	INCOMING COLD WATER	REVERSE OSMOSIS SYSTEM	WALL	90"	BTC
P264A		OUTGOING COLD WATER	RO TANK/REVERSE OSMOSIS SYSTEM	WALL	48"	BTC; INTERCONNECT TO EQUIPME
P265	<varies< td=""><td><varies></varies></td><td><varies></varies></td><td><varies< td=""><td><varies></varies></td><td><varies></varies></td></varies<></td></varies<>	<varies></varies>	<varies></varies>	<varies< td=""><td><varies></varies></td><td><varies></varies></td></varies<>	<varies></varies>	<varies></varies>
P265B	3/4"	NATURAL GAS	KETTLE	WALL	18"	BTC: 100MBTU/HR
P532	3/4"	H & C WATER	EQUIPMENT	WALL	18"	BTC: RE: NOTE #3 - COORDINATE II
						W/ MANUFACTURE'S REQUIREMEN
P616	(2)3/4"	NATURAL GAS	DECK OVEN	WALL	18"/36"	BTC: 70MBTU/HR EACH
P633	3/4"	NATURAL GAS		WALL	18"	BTC: 130MBTU/HR
P660	3/4"		CHARBROILER	WALL	18"	BTC: 116 MBTU/HR
P708 P708A	3/4"	H & C WATER DIRECT DRAIN	SCRAP COLLECTOR SCRAP COLLECTOR	WALL	18" 4"	BTC BTC
P800	3/4"	NATURAL GAS	RANGE / GRIDDLE	WALL	18"	BTC: 270 MBTU/HR
P803A		NATURAL GAS	KETTLE 60 GALLON	WALL	18"	BTC: 150 MBTU/HR
P803B		<varies></varies>	<varies></varies>	<varies< td=""><td><varies></varies></td><td><varies></varies></td></varies<>	<varies></varies>	<varies></varies>
P805	12"	FLOOR SINK	FLIGHTTYPE DISHMACHINE	FLOOR	0"	BTC:
P805A	12"	COLD WATER	FLIGHTTYPE DISHMACHINE	FLOOR		BTC: THRU FLITER TO BOOSTER H DISHMACHINE - MIN: 140F:
P809	3/4"	HOT WATER	DIPPER WELL	FLOOR	18"	
P810	3/4"	NATURAL GAS	FRYER	WALL	24"	BTC; 72.5 MBTUH
P811	3/4"	COD WATER	BEVERAGE DISPENSER	WALL	18"	BTC:
P812	1/2"		TEA/COFFEE BREWER	WALL	18"	BTC:
P813	3/4"	COLD WATER		WALL	18"	BTC:
P814 P819	3/4" 3/4"	COD WATER NATURAL GAS	ICE MACHINE GAS GRIDDLE	WALL FLOOR	18"	BTC BTC:120MBTU/HR
P819 P822	3/4	COLD WATER	POT & PAN WASHER	WALL	24"	BTC: THRU WATER SOFTENER TO I
						- MIN: 140F:
P822A	12" SQ.	FLOOR SINK	POT & PAN WASHER	FLOOR	0"	BTC
P823	3/4"	H & C WATER	FAUCET	WALL	13"	BTC: RE: NOTE #3
P823A	3/4"	H & C WATER	TROUGH MIXING VALVE	WALL	13"	BTC:

	0	HW	HOT WATER	\odot	FFD	FUNNEL FLOOR DRAIN			
	0	CW	COLD WATER	\square	EVC	EXHAUST VENT CONNECTION			
	0	HTW	180 F HOT WATER	\bowtie	SVC	SUPPLY VENT CONNECTION			
	0		CHILLED WATER	•	FR	DIRECT-CONNECTED FLUE RISER			
	\otimes	W	DIRECT WASTE	⊕	PS	PIPE SLEEVE			
	\bigcirc	IW	INDIRECT WASTE	۸		COMPRESSED AIR			
	6		GAS SUPPLY	\$		CO2			
	Ø		STEAM SUPPLY		AFF	ABOVE FINISHED FLOOR			
	\otimes	CR	CONDENSATE RETURN		BTC	BRANCH TO CONN. ON EQUIP			
		DR	DRAIN		DFA	DROP FROM ABOVE			
	\square	FD	FLOOR DRAIN		CLG	CEILING			
		FST	FLOOR SINK 3/4 GRATE						
		FSH	FLOOR SINK 3/4 GRATE						
(2 PLUMBING SYMBOLS								
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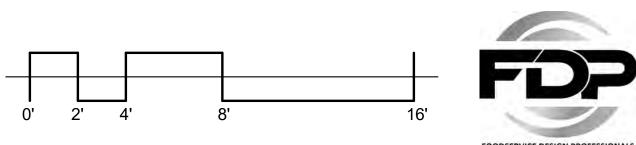
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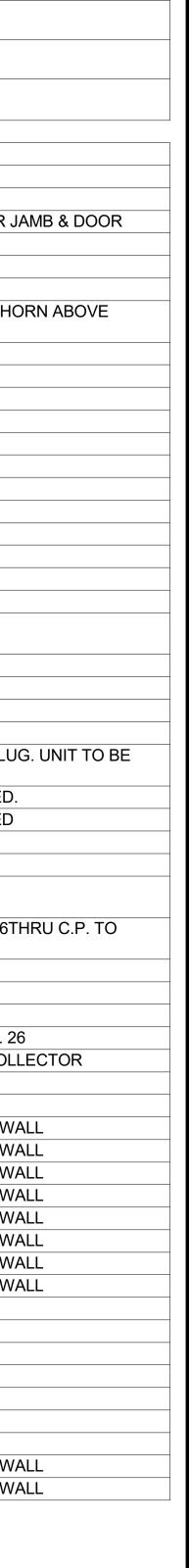


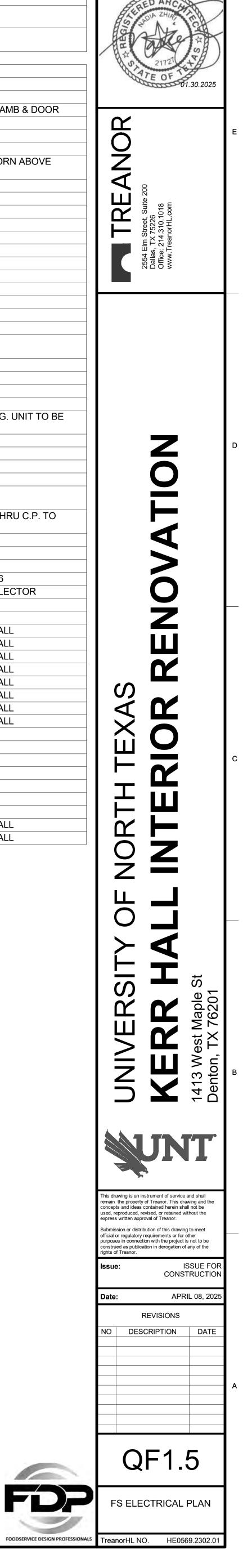
					FOOD SERVICE ELECT REFER TO SHEET QF1 FOR ELECT			ION NOTES
FDP ENO	FDP ECONN	FDP ELOAD	FDP EVOLT	FDP EPH		FDP ELOC	FDP EAFF	FDP EREMARKS
E10 E11	DR DR	16.0A 16.0A	120 120	1	CONVENIENCE OUTLET CONVENIENCE OUTLET	WALL	24" 47"	 MOUNT HORIZONTAL
E101	JB	10.2A	120	1	AIR SCREEN	WALL	82"	BTC; MAGNETIC REED SWITCH ON DOOR JAMB
E102A	JB	16.0A	120	1	DOOR HEATER/LIGHTS	CLG	DFA	BTC
E102B	JB	5.0A	120	1	TEMP. ALARM	CLG	DFA	BTC
E102C	JB	5.0A	120	1	PRESSURE RELIEF PORT	CLG	DFA	BTC
E102E	JB	10.0A	120	1	PANIC ALARM BUTTON	CLG	DFA	BTC-INTERCONNECT TO STROBE LIGHT/HORN A FREEZER DOOR AND IN CAFETORIUM
E103.1	JB/DS	25.5A	208	1	REFRIGERATION SYSTEM	VERIFY	VERIFY	VERIFY REQUIREMENTS
E103C	JB	15.2A	208	1	FREEZER COIL	CLG	DFA	BTC
E103D	JB	1.8A	120	1	COOLER COIL	CLG	DFA	BTC
E103E	JB				DATA CONNECTION	CLG	DFA	BTC; RUN TO NEAREST IDF / MDF ROOM
E103F	JB	16.0A	120	1	DRAIN LINE HEATER	CLG	DFA	BTC; DEDICATED CIRCUIT
E109A	JB	30.0A	208	1	ICE MACHINE	WALL	54"	
E134	SR	5.6A	208	3	40 QT MIXER	WALL	54"	BTC;
E145	DCR	16.0A	120	1	TABLE RECEPTACLE	CLG	84"	TWISTLOCK PLUG & RECEPTACLE
E151	JB	1.0A	120	1	FIRE PROT. SYSTEM	CLG	DFA	BTC;
E153	JB	10.0A	120	1	HOOD LIGHTS	CLG	DFA	BTC;
E153M	JB	10.0A	120	1	HEAT SENSOR	CLG	DFA	BTC;
E161	(2)DR	6.0A EA.	120	1	CONVECTION OVEN	WALL	24"/48"	SHUNT TRIP BREAKER
E162	(2) JB	1.25A EA.	120	1	CONVECTION STEAMER	WALL	24" / 60"	SHUNT TRIP BREAKER
E164	DR	1.4A	120	1	TILT BRAISING PAN	WALL	24"	SHUNT TRIP BREAKER
E172	(2)JB	12.0A EA	120	1	COMBIOVEN	WALL	24"/48"	BTC; SHUNT TRIP BREAKER
E172E					DATA CONNECTION	CLG	DFA	BTC; RUN TO NEAREST IDF / MDF ROOM
E187	JB	15.5A	120/208	1	HEATED CABINET	WALL	96"	BTC; MOUNT ON KITCHEN SIDE
E189	JB	8.6A	120	1	REFRIGERATOR	WALL	96"	BTC; MOUNT ON KITCHEN SIDE - OMIT PLUG. UN HARDWIRED.
E193	JB	8.2A	120	1	REFRIGERATOR	WALL	84"	BTC; OMIT PLUG. UNIT TO BE HARDWIRED.
E195	JB	14.9A	120	1	FREEZER	WALL	96"	BTC; OMIT PLUG, UNIT TO BE HARDWIRED
E201A	CS	100.0A	120/208	3	LOAD CENTER	FLOOR	6"	BTC;
E201B	CS	60.0A	120/208	3	LOAD CENTER	FLOOR	6"	BTC;
E256	JB/DS	<varies></varies>	<varies ></varies 	<vari es></vari 	POWERWASH SINK	WALL	54"	<varies></varies>
E256A	JB				POWERWASH SINK	WALL	24"	BTC; RE: NOTE #4 - CONNECT FROM E256THRU PUMP
E264	WPR	15.0A	120	1	REVERSE OSMOSIS SYSTEM	WALL	80"	BTC; DEDICATED CIRCUIT
E265	DR	5.0A	120	1	KETTLE	WALL	24"	SHUNT TRIP BREAKER
E633	DR	5.0A	120	1	GRIDDLE	WALL	24"	SHUNT TRIP BREAKER
E644	JB	16.0A	120	1	ELECTRIC CORD REEL	CLG	VERIFY	BTC; PROVIDED AND INSTALLED BY DIV. 26
E708	JB	3.2A	208	3	SCRAP COLLECTOR	WALL	24"	BTC - CONNECT THRU C.P. TO SCRAP COLLECT
E803	JB	5.0A	120	1	TILT BRAISING PAN	WALL	24"	SHUNT TRIP BREAKER
E804	DR	7.7A	120	1	PIZZA PREP TABLE	WALL	24"	
E805	JB/DS-JB	35.4A	480	3	WASH HEATER & PUMP STATION	WALL	66"	BTC; EXTEND FROM JB/DS AT NEAREST WALL
E805A	JB/DS-JB	38.9A	480	3	POWER RINSE HEATER & PUMP STATION	WALL	66"	BTC; EXTEND FROM JB/DS AT NEAREST WALL
E805B	JB/DS-JB	6.3A	480	3	MOTORS, PRE-WASH PUMP & CONTROLS	WALL	66"	BTC; EXTEND FROM JB/DS AT NEAREST WALL
E805C	JB/DS-JB	32.5A	480	3	BOOSTER OPTION	WALL	66"	BTC; EXTEND FROM JB/DS AT NEAREST WALL
E805D	JB/DS-JB				WASH HEATER & PUMP STATION	WALL	66"	BTC; EXTEND FROM JB/DS AT NEAREST WALL
E805E	JB/DS-JB				POWER RINSE HEATER & PUMP STATION	WALL	66"	BTC; EXTEND FROM JB/DS AT NEAREST WALL
E805F					MOTORS, PRE-WASH PUMP & CONTROLS	WALL	66"	BTC; EXTEND FROM JB/DS AT NEAREST WALL
	JB/DS-JB				BOOSTER OPTION	WALL	66"	BTC; EXTEND FROM JB/DS AT NEAREST WALL
E810	DR	0.7A	120	1	FRYER	WALL	24"	BTC
E810A		6.7A	120	1	FRYER	WALL	24"	BTC
E811	DR	12.0A	120	1	BEVERAGE DISPENSER	WALL	24"	
E812	DR	14.0A	120	1	TEA/COFFEE BREWER	WALL	24"	MOUNT HORIZONTAL
E813	DR	2.8A	120	1	JUICE DISPENSER	WALL	24"	MOUNT HORIZONTAL
E814	DR	11.9A	120	1	ICE MACHINE	WALL	24"	
E821	DR	24.0A	120/208	1	BLAST CHILLER	WALL	24"	
					POT & PAN WASHER	WALL	66"	BTC; EXTEND FROM JB/DS AT NEAREST WALL
E822	JB/DS-JB						00	

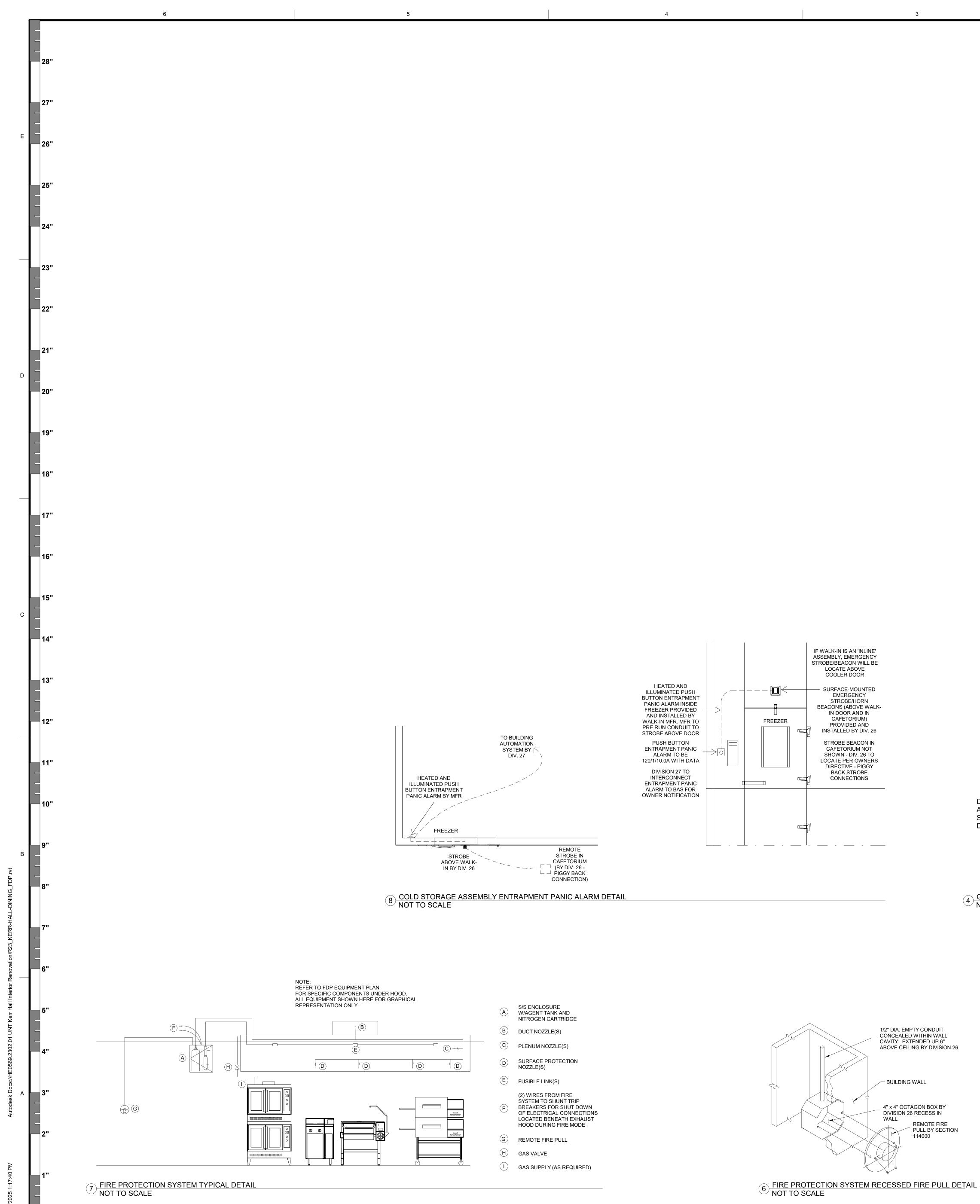
<u>∽</u> ⊕	SCR	CONDUIT STUB BTC ON RECEPT FURNISH WITH EQUIPMENT		сс	CONDUIT FOR COMPUTER CABLES
0	CS	CONDUIT STUB UP/OUT FOR DIRECT CONNECTION		BTC	BRANCH TO CONNECTION ON EQUIPMENT
Þ	DR	DUPLEX RECEPTACLE	Þ	WPR	WATERPROOF RECEPTACLE (SPRING COVER)
	SR	SINGLE PURPOSE RECEPTACLE-1PH	/	FPB	FIRE PROTECTION BUZZER
${\bf i} \!$	SR	SINGLE PURPOSE RECPTACLE-3PH	\otimes	BSC	BEVERAGE SYSTEM CONDUIT
0	FR	FLUSH FLOOR RECEPTACLE		DFA	DROP FROM ABOVE
¢	PMR	PEDESTAL MOUNTED RECEPTACLE		AFF	ABOVE FINISH FLOOR
\bigcirc	DCR	DROP CORD RECEPTACLE	٥Ū	CS/JB	JUNCTION BOX ON PEDESTAL
0	JB	JUNCTION BOX ON CEILING	\$	SW	SWITCH
	JB	JUNCTION BOX IN WALL		D	DATA
Ū	JB/DS	JUNCTION BOX WITH DISCONNECT BY DIV.26			
				· '	

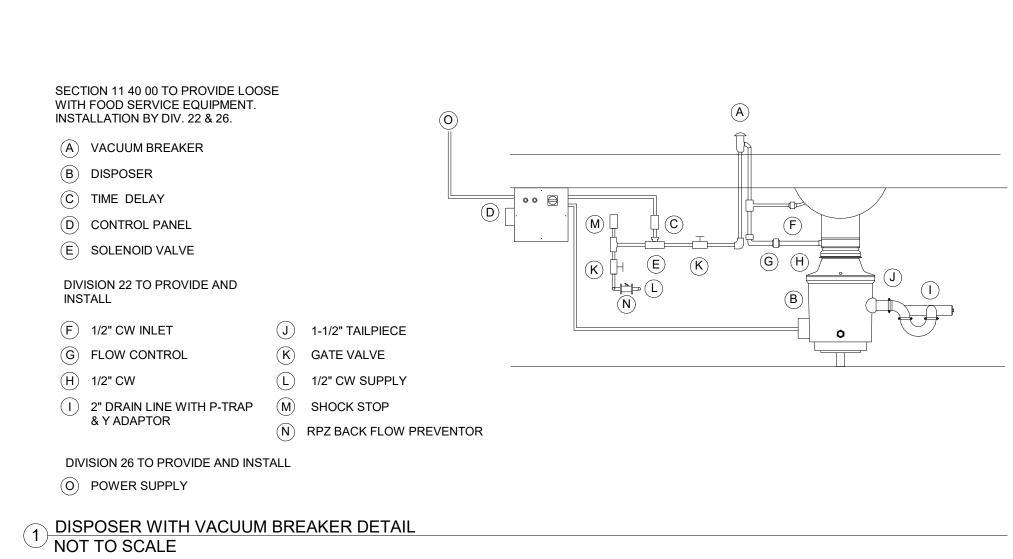


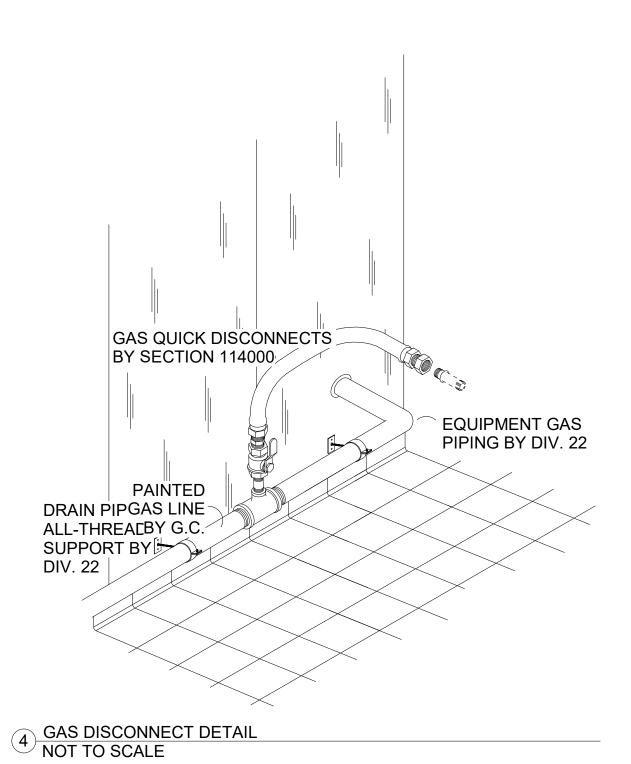
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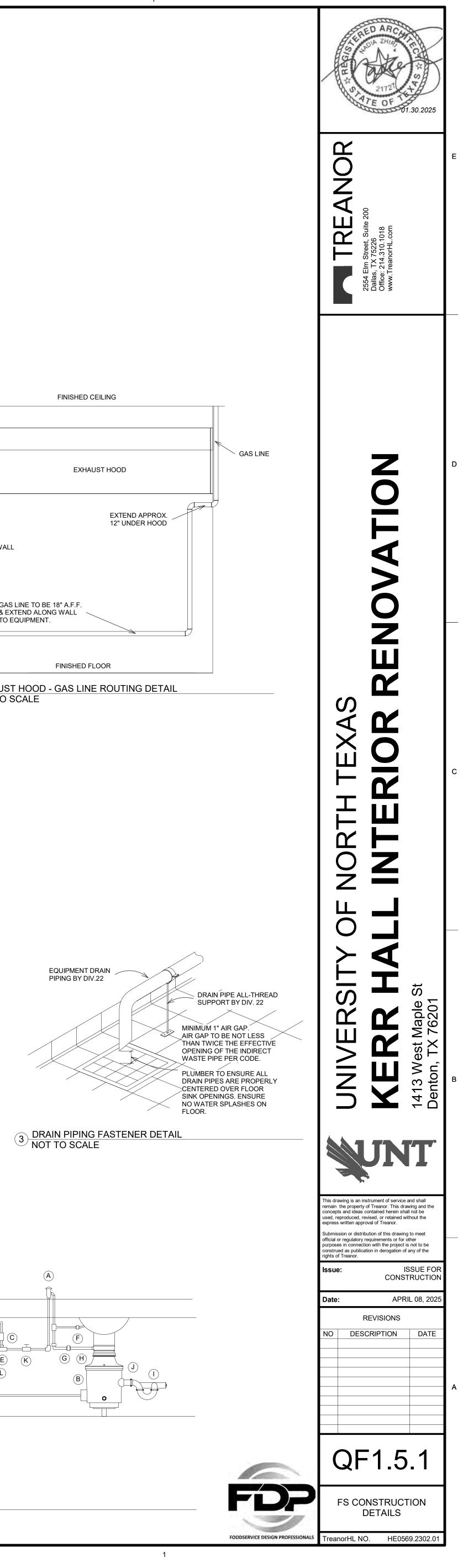




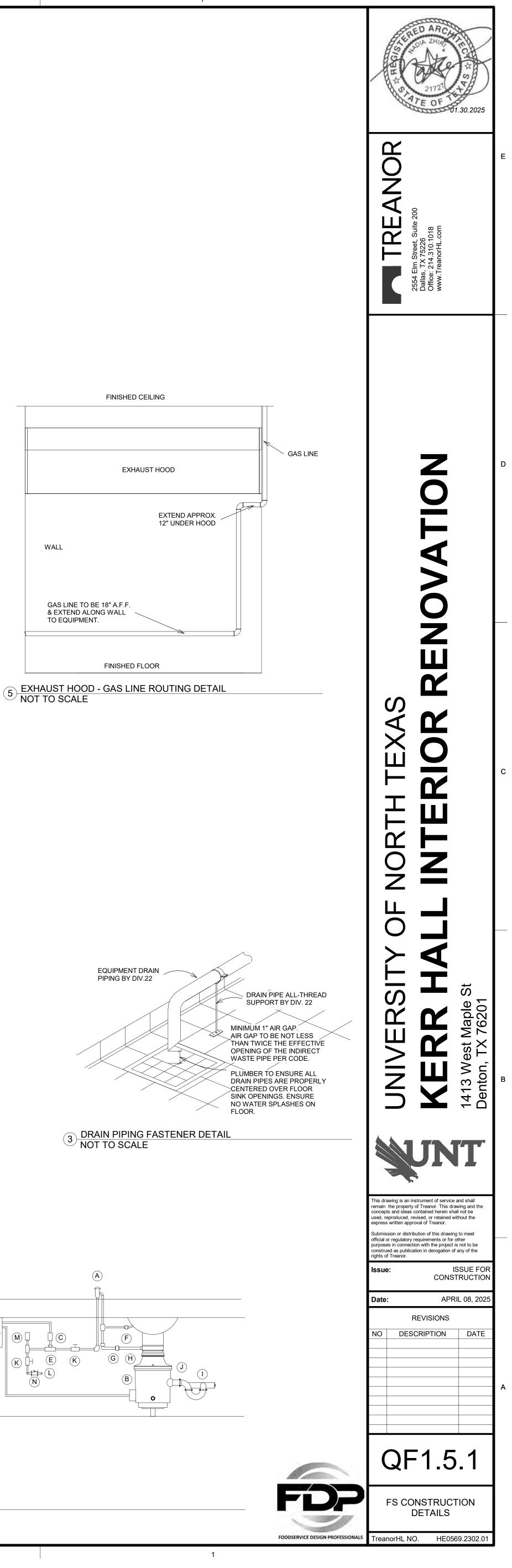


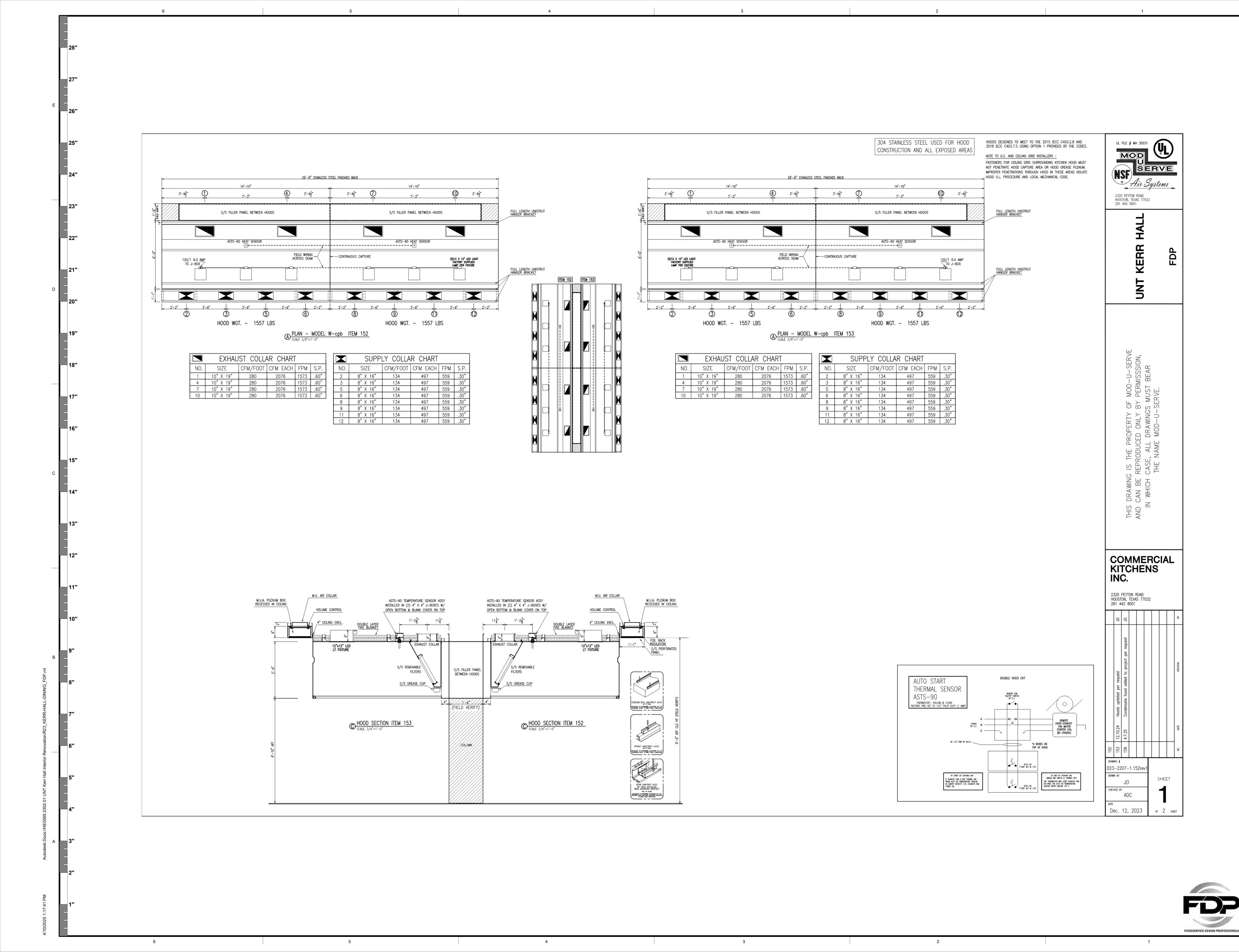


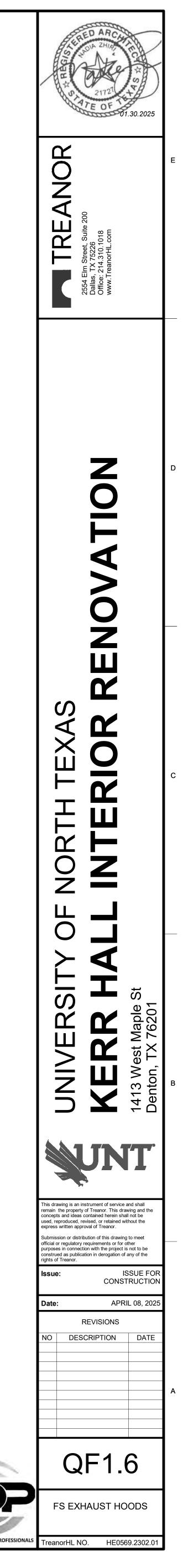


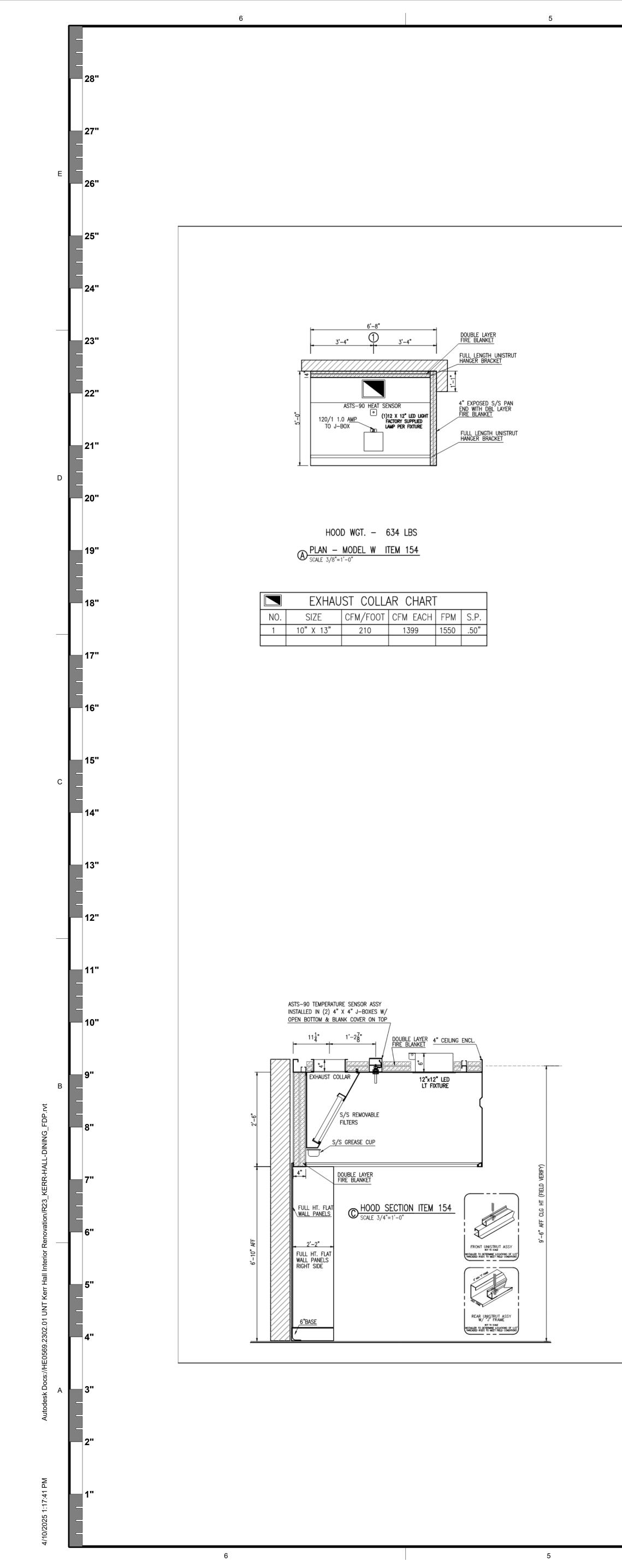


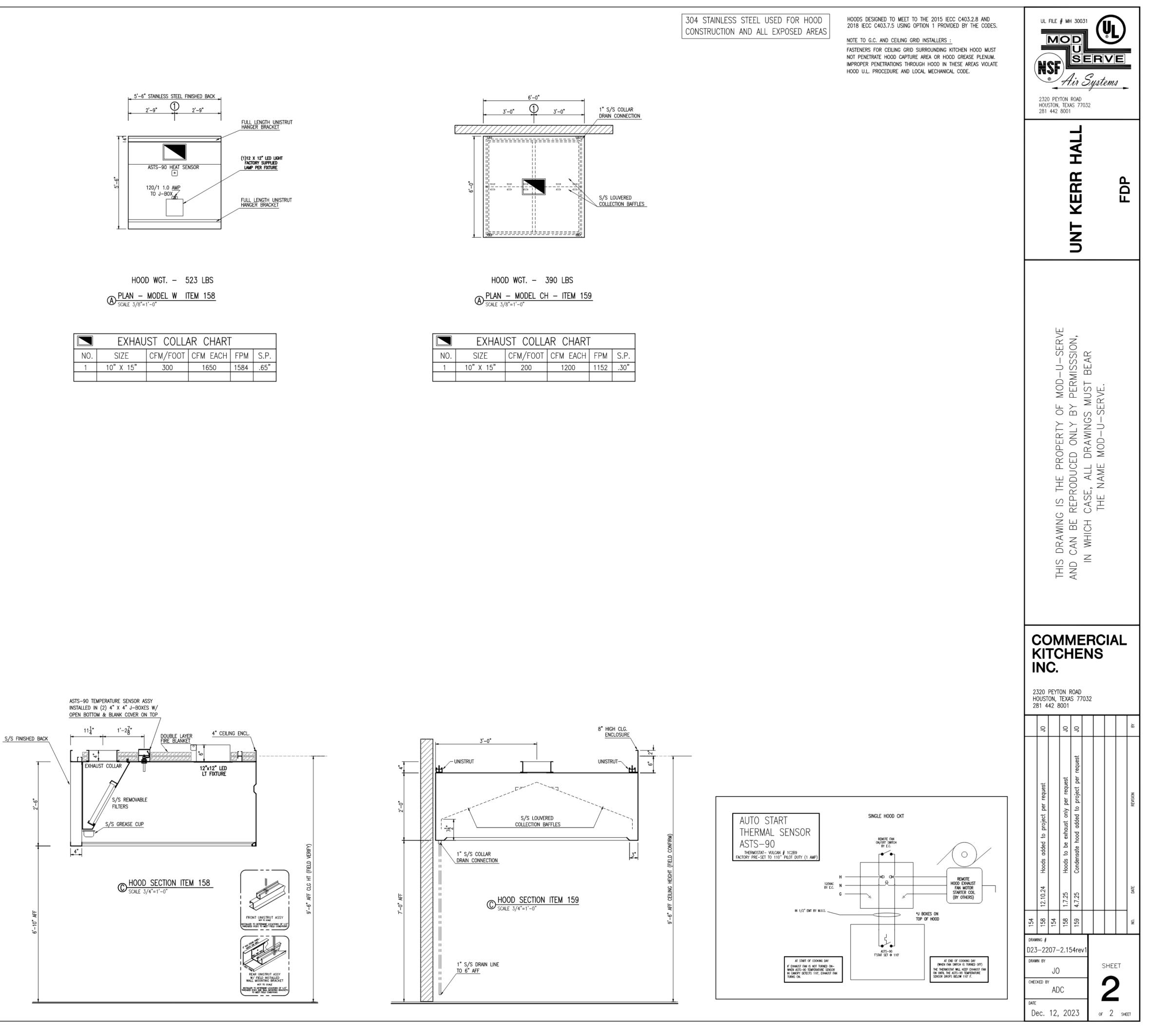


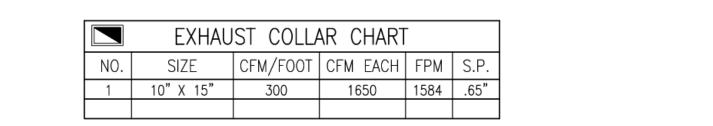




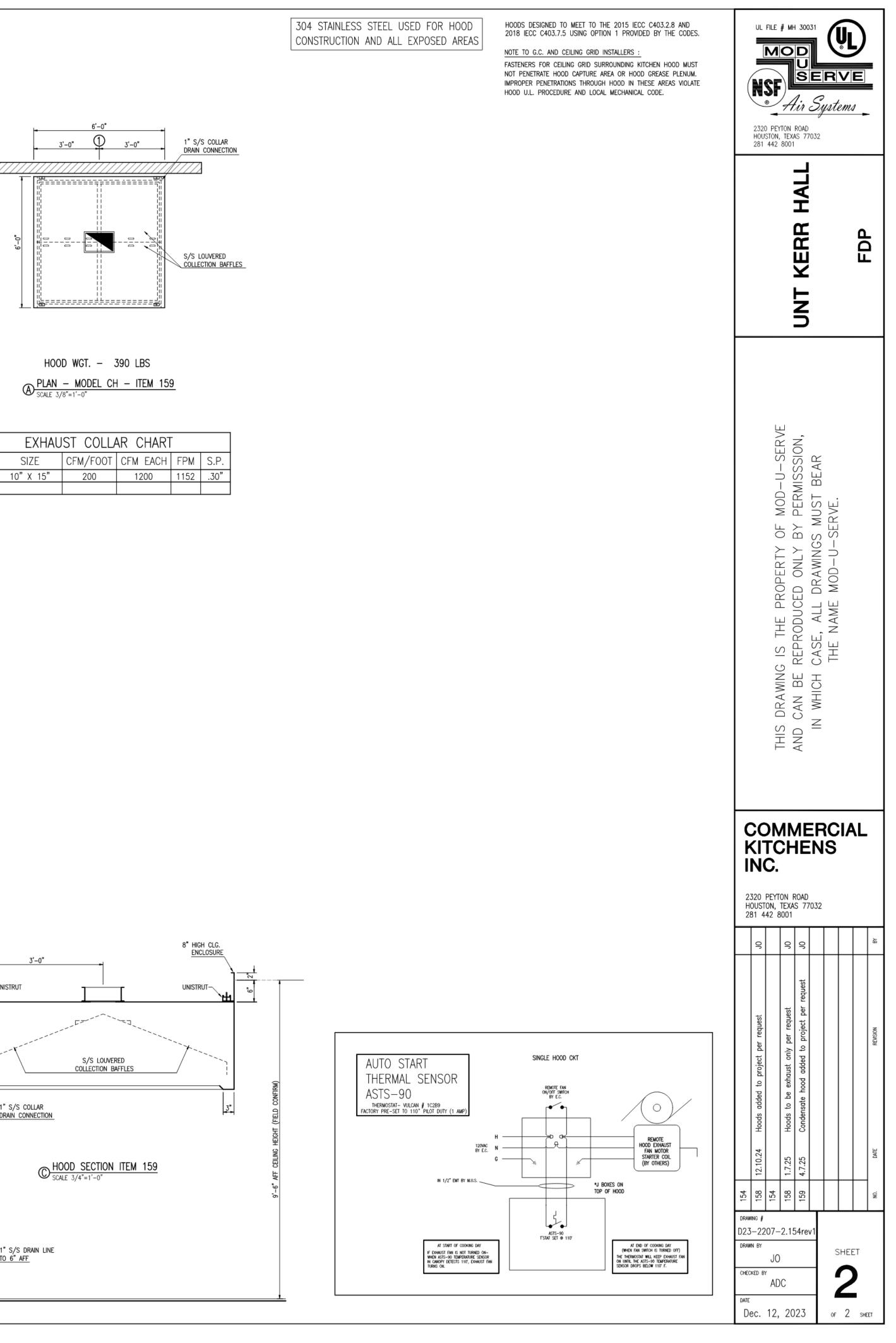


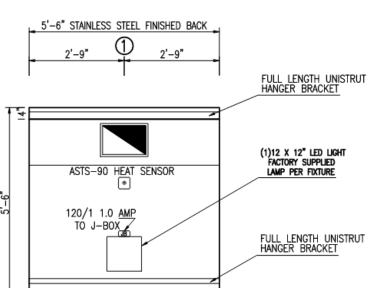


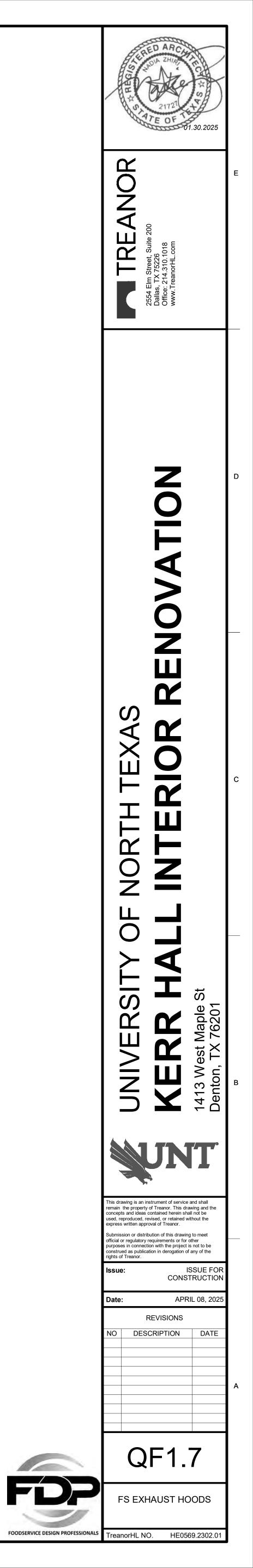


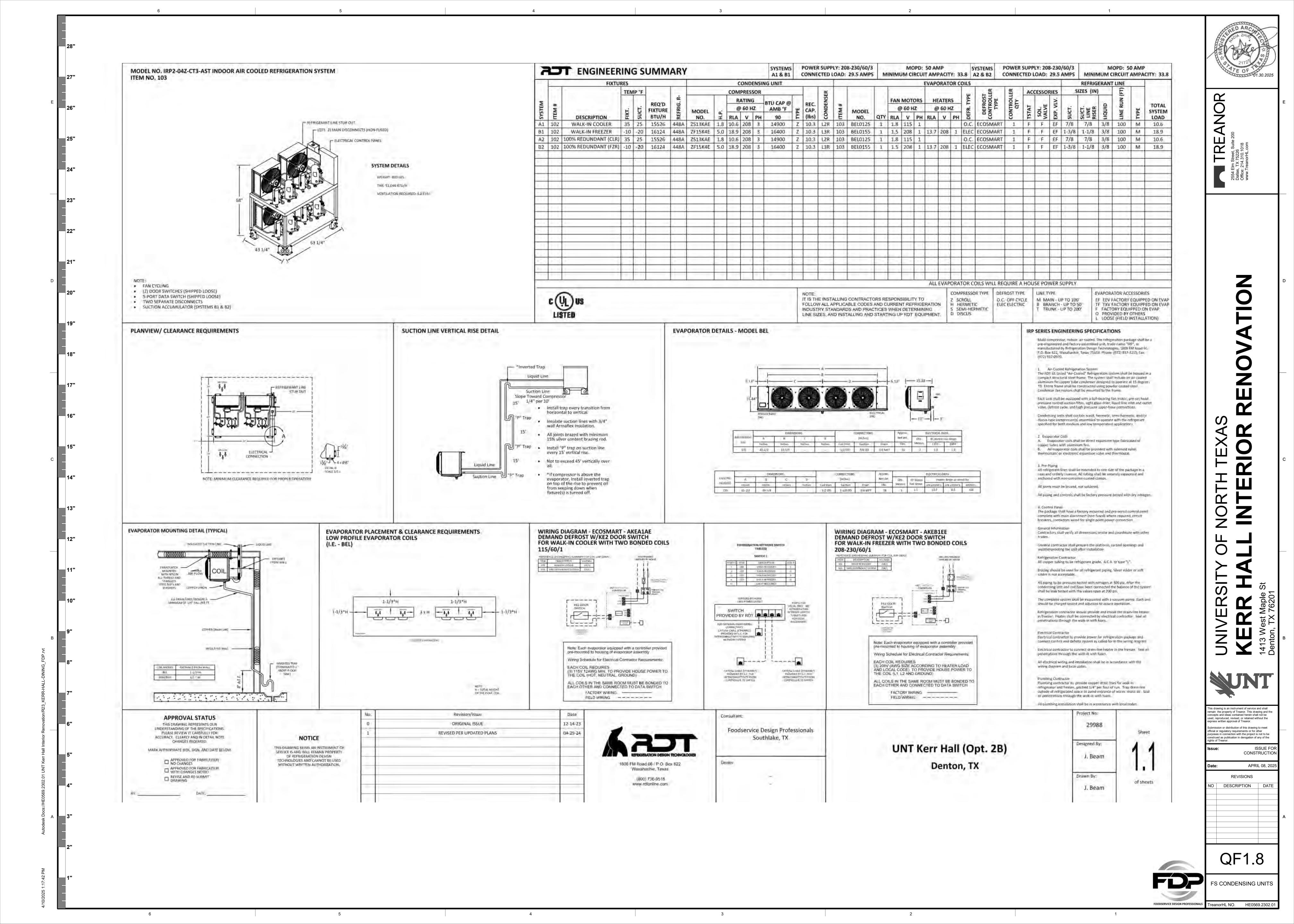


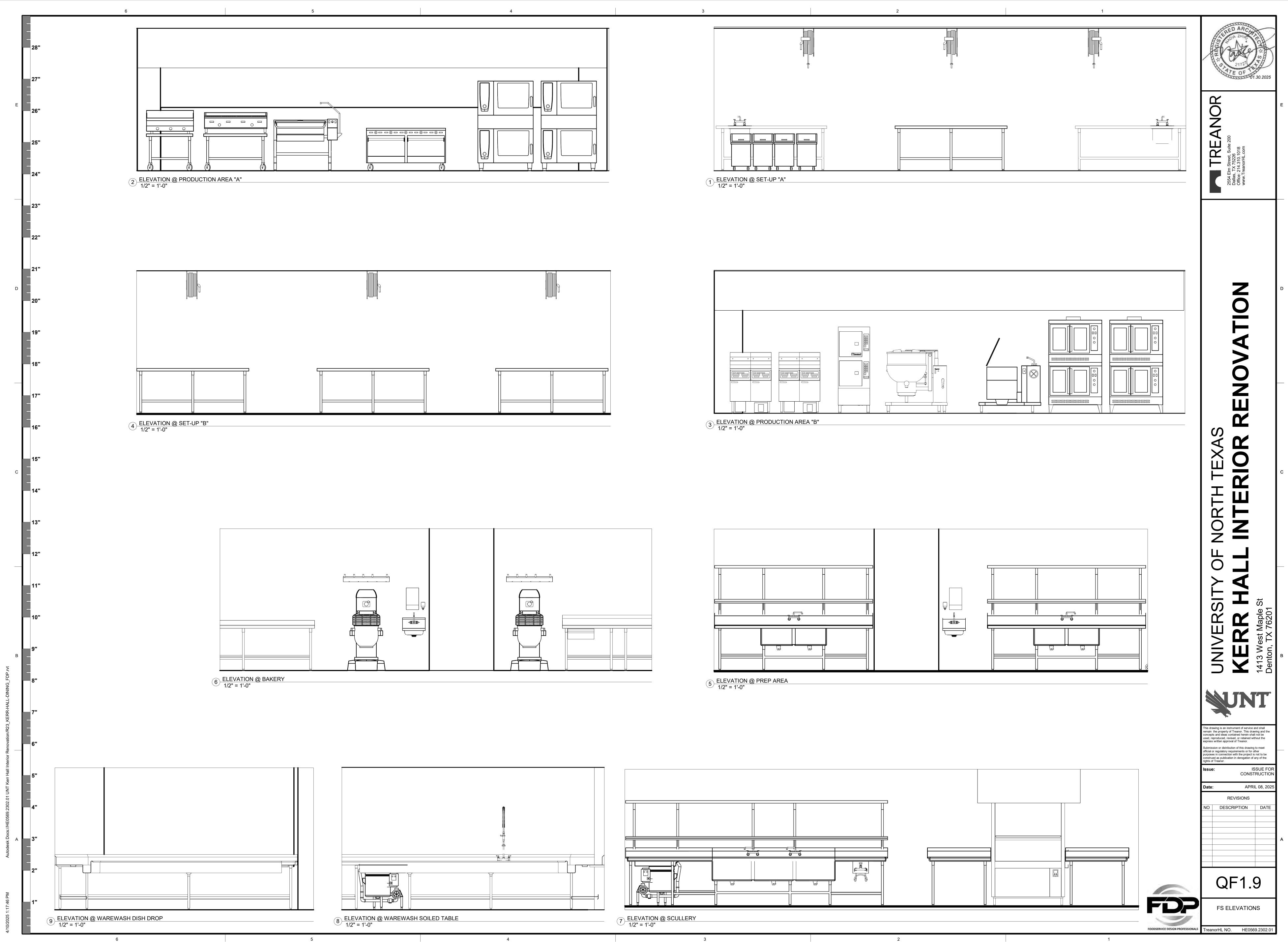
	EXHAU	ST COLLA	AR CHA
NO.	SIZE	CFM/FOOT	CFM EAG
1	10"X 15"	200	1200

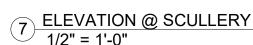


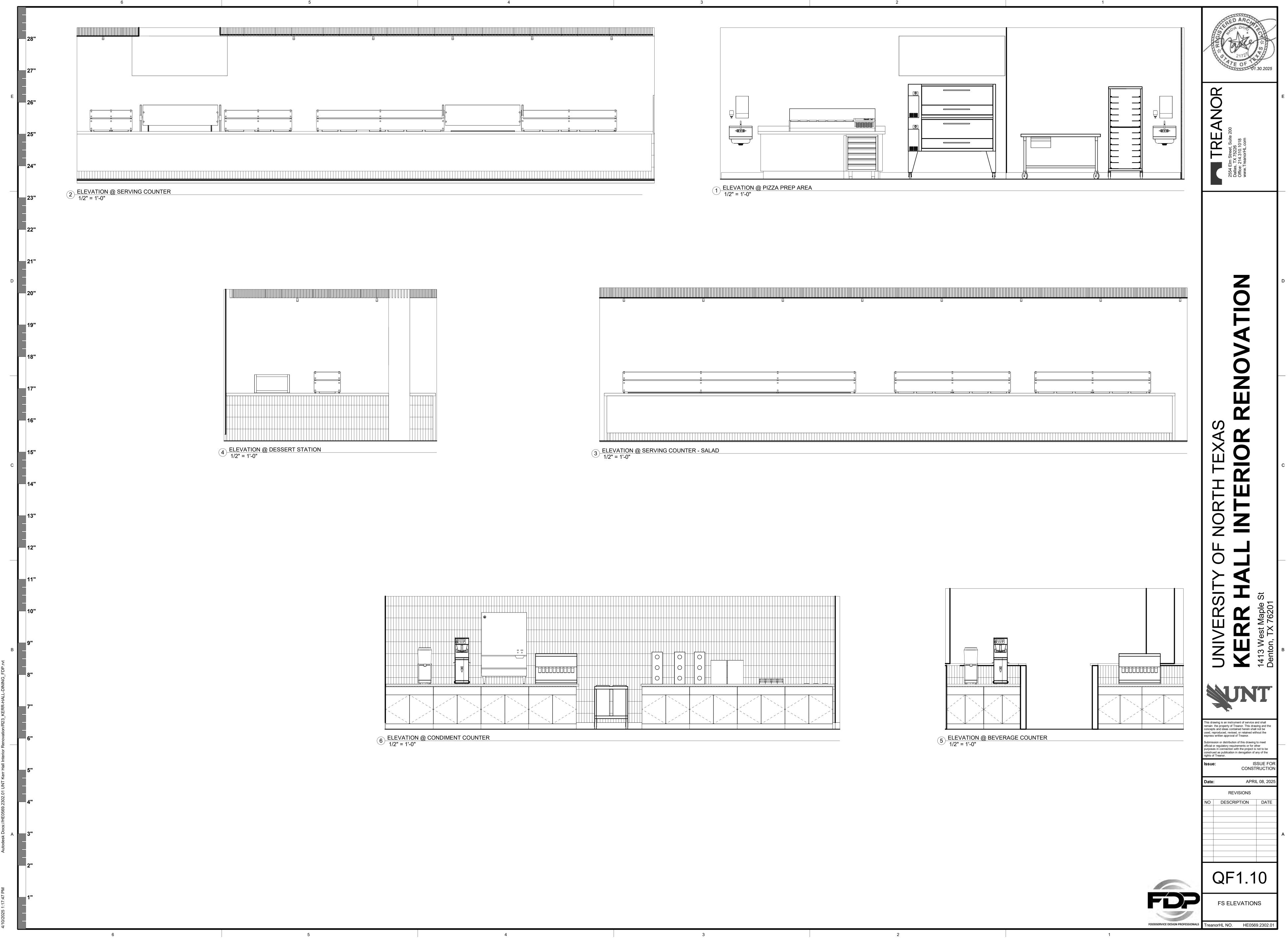


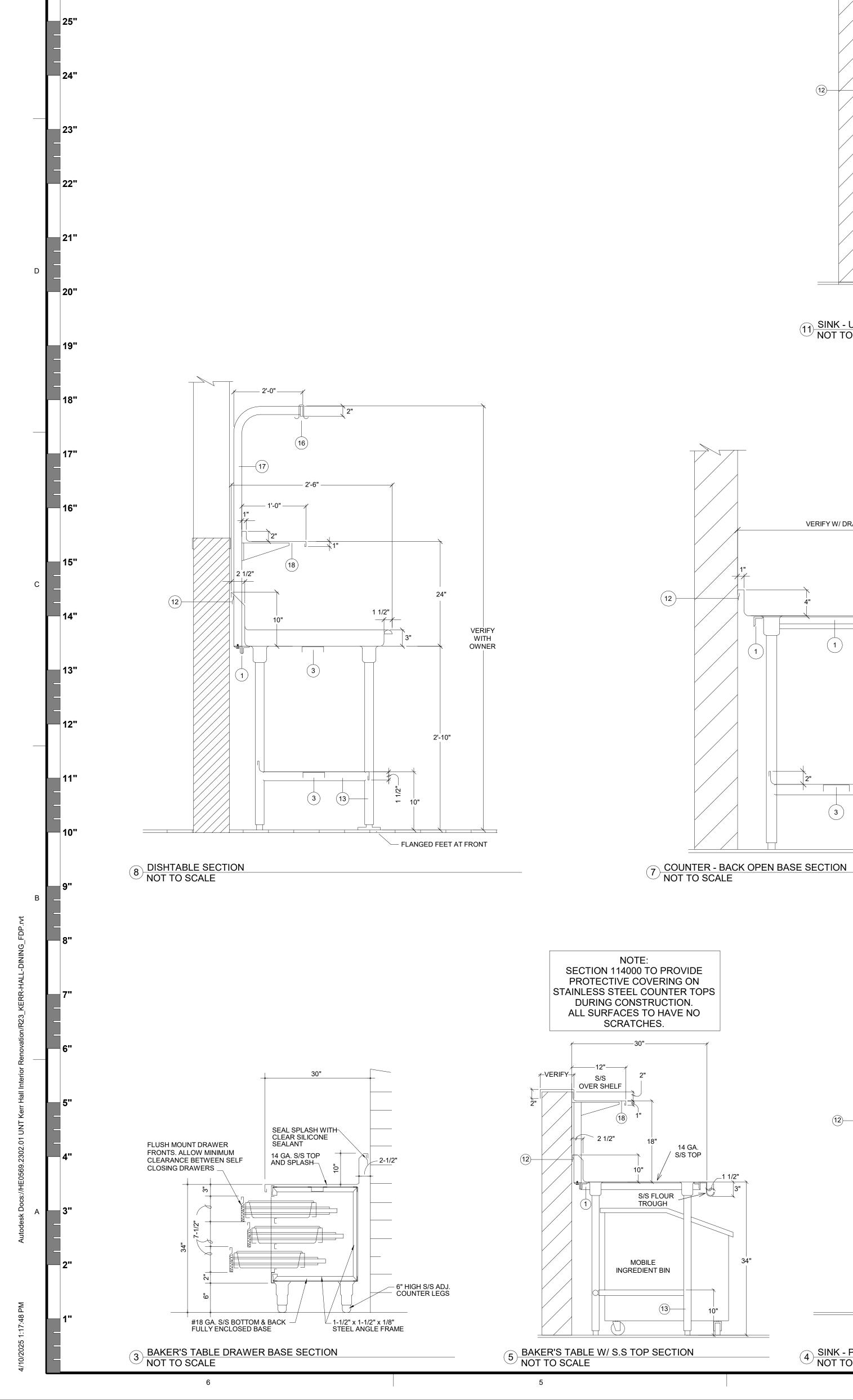


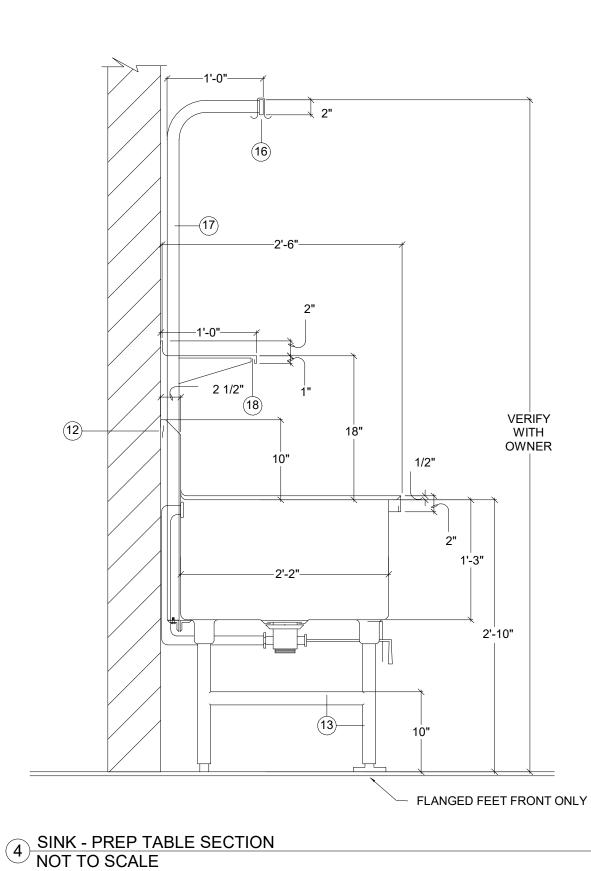


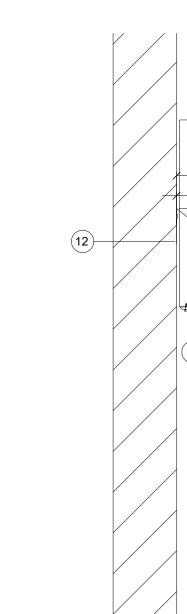










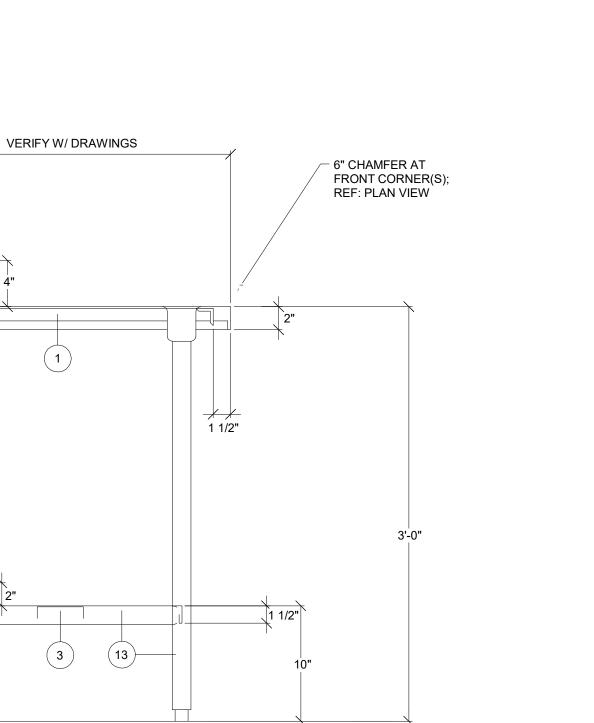


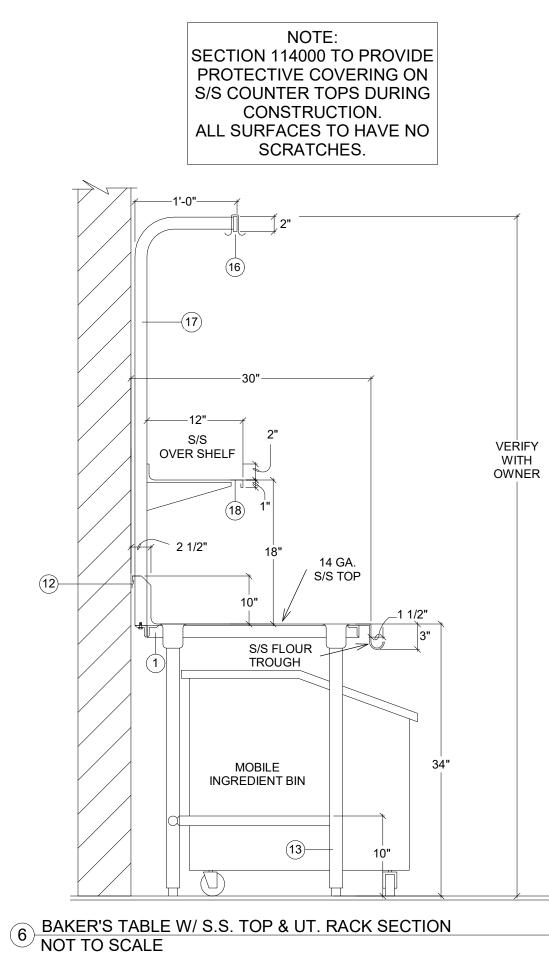
2 WORKTABLE W/ OVER SHELF SECTION NOT TO SCALE

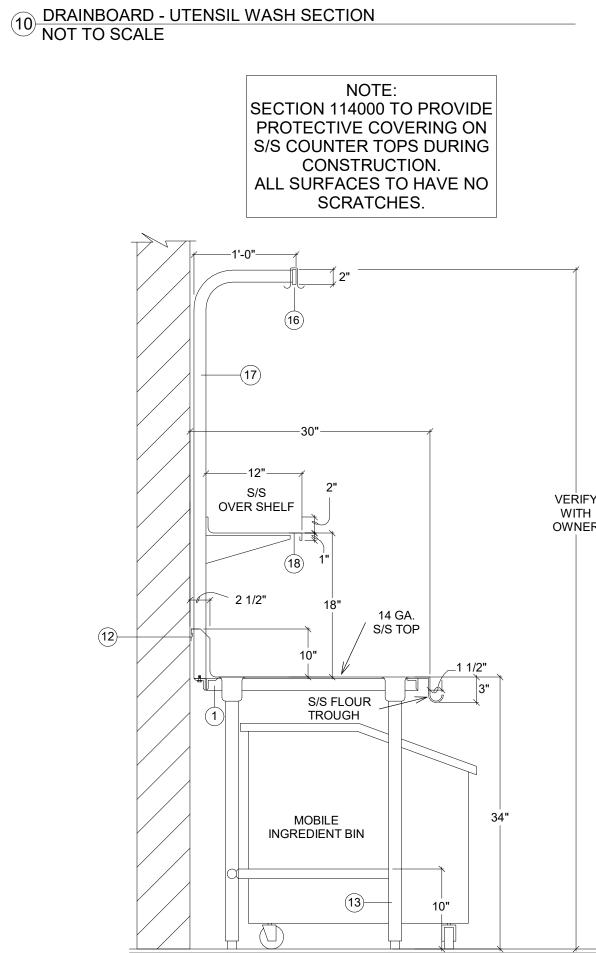
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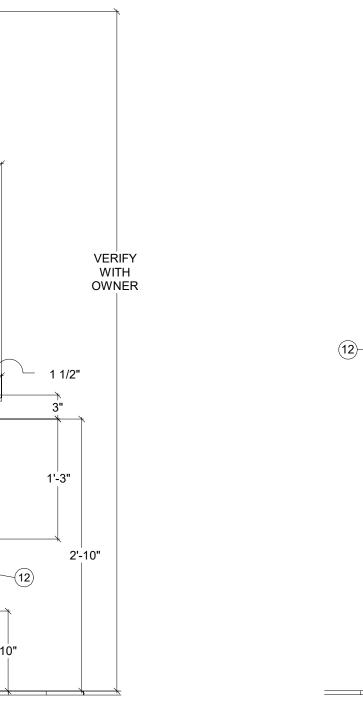
1 1/2" 1/2" (13)-(3)

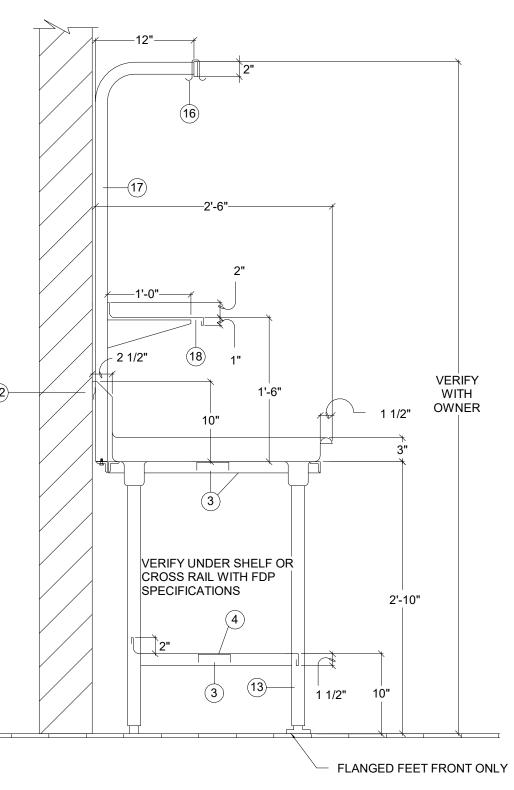
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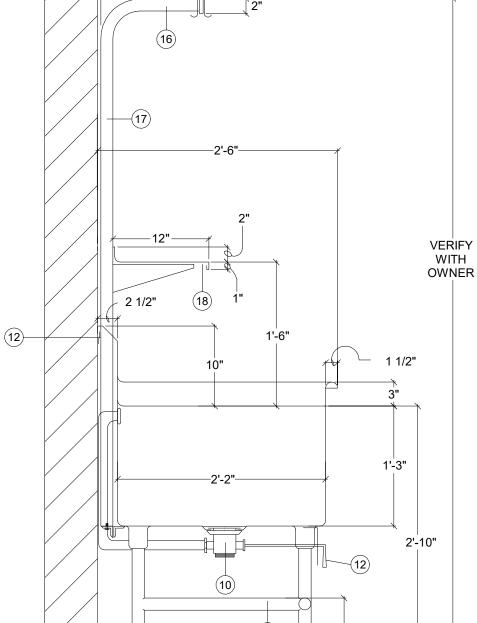




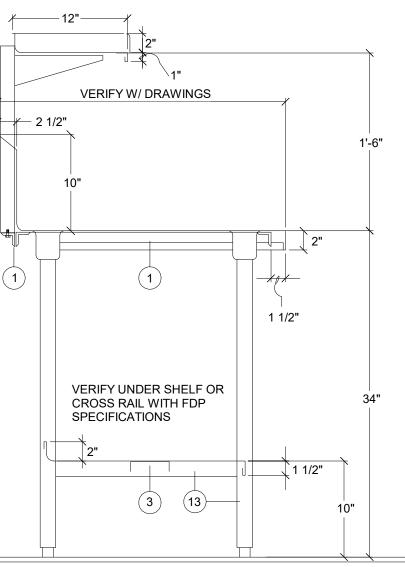




11 SINK - UTENSIL WASH SECTION NOT TO SCALE







- 2 1/2' VERIFY (12)-WITH OWNER 2'-10" 1 1/2" FLANGED FEET FRONT ONLY

9 DRAINBOARD - PREP SINK SECTION NOT TO SCALE

SECTION DETAIL NOTES:

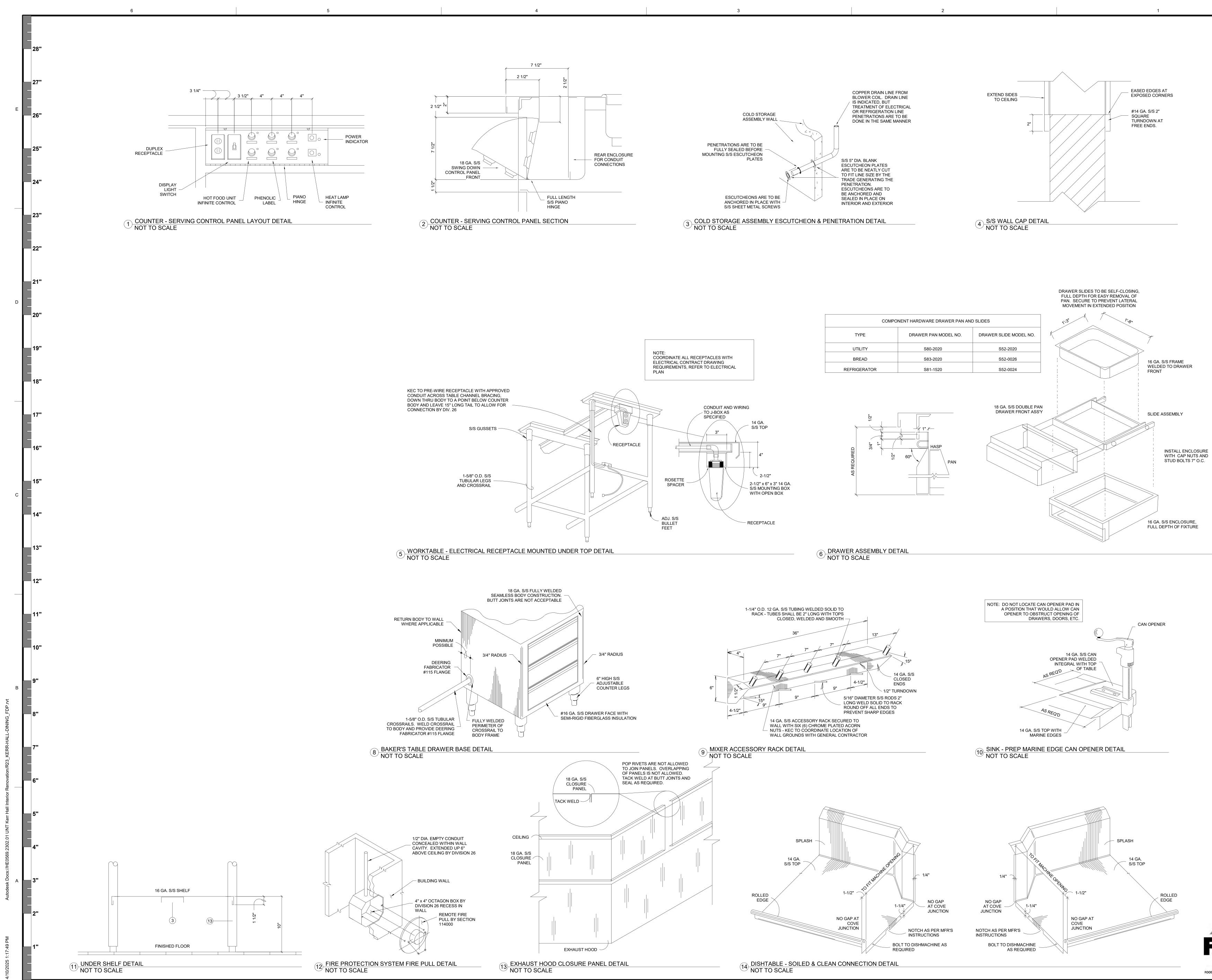
- 1. 1 1/2" X 1 1/2" X 1/8" GALVANIZED ANGLE IRON.
- 2. 1" X 4" 14 GAUGE STAINLESS STEEL HAT CHANNEL.
- 3. 16 GAUGE STAINLESS STEEL C-CHANNEL
- 4. 16 GAUGE STAINLESS STEEL UNDER SHELF, COVE UP REAR 2", TURN DOWN FRONT 1 1/2".
- 1/2" CEMENT BACKERBOARD WITH TILE FRONT BY TRADE CONTRACTOR OR COUNTER MANUFACTURER. VERIFY FINISH WITH ARCHITECTURAL DRAWINGS.
- COLD PAN 2" RIGID INSULATION WITH 1" C.P. DRAIN 16 GAUGE STAINLESS STEEL SECTION FALSE BOTTOM. PERFORATE FALSE BOTTOM WITH 1/4" DIA. HOLES AT 3" O.C.
- 18 GAUGE STAINLESS STEEL INSULATED DOUBLE PAN DOOR WITH RECESSED PULL.
- MANIFOLD DRAINS AT HOT FOOD UNITS WITH 1" TYPE 'K' COPPER AND EXTEND TO VALVE IN PLUMBING COMPARTMENT.
- 9. FINISHED TRUE AND LEVEL MASONRY BASE BY DIVISION 09. CLOSE COUNTER BODY AT BASE AND SEAL BY SECTION 11 40 00.
- 10. FISHER #22314 DRAIN WITH TAILPIECE AND OVERFLOW.
- 11. 14 GAUGE STAINLESS STEEL BRACKET WITH DRAIN HANDLE BUSHING.
- 12. 16 GAUGE STAINLESS STEEL 'Z' CLIP TO WALL AND SEAL.
- 13. 1 5/8" DIA. 16 GAUGE STAINLESS STEEL LEGS AND CROSS RAILS.
- 14. 1/2" S/S TUBING DRAIN LINE STRAP TO SHELF AND WALL -EXTEND DOWN TO TOP OF SPLASH.
- 15. 1 5/8" DIA. 16 GAUGE STAINLESS STEEL TUBING SUPPORT FRONT OF SHELF WITH 1/2" ALL-THREAD INSIDE TUBING EXTENDING TO STRUCTURE ABOVE.
- 16. 1/4" S/S BAR STOCK WELDED TO TOP OF EACH POST POT HOOKS TO BE COMPONENT HARDWARE #J77-4401 SPACED 8" O.C.
- 17. 1 5/8" 16 GAUGE STAINLESS STEEL TUBING BOLT TO ANGLE IRON AND EXTEND UP THRU SPLASH TO 7'-0" A.F.F.
- 18. OVER SHELF 16 GAUGE STAINLESS STEEL, COVE UP REAR 2", TURN FRONT AND ENDS DOWN 1", ENDS TO BE CAPPED WITH EASED CORNERS WHERE ADJACENT TO WALL / FIXTURE.
- 19. 18 GAUGE STAINLESS STEEL LOUVERED PANEL.
- 20. 18 GAUGE STAINLESS STEEL LOUVERED DOUBLE PAN DOOR WITH RECESSED PULL. 21. NUMBER NOT USED.
- 22. 18 GAUGE STAINLESS STEEL INSULATED DOUBLE PAN SLIDING DOOR WITH COMPONENT HARDWARE COMPONENTS
 - #B57 (VERIFY LENGTH) EXTRUDED ALUMINUM TRACK. Α. #B58-5511 & #B58-5521 FRONT & REAR DOOR SHEAVES.

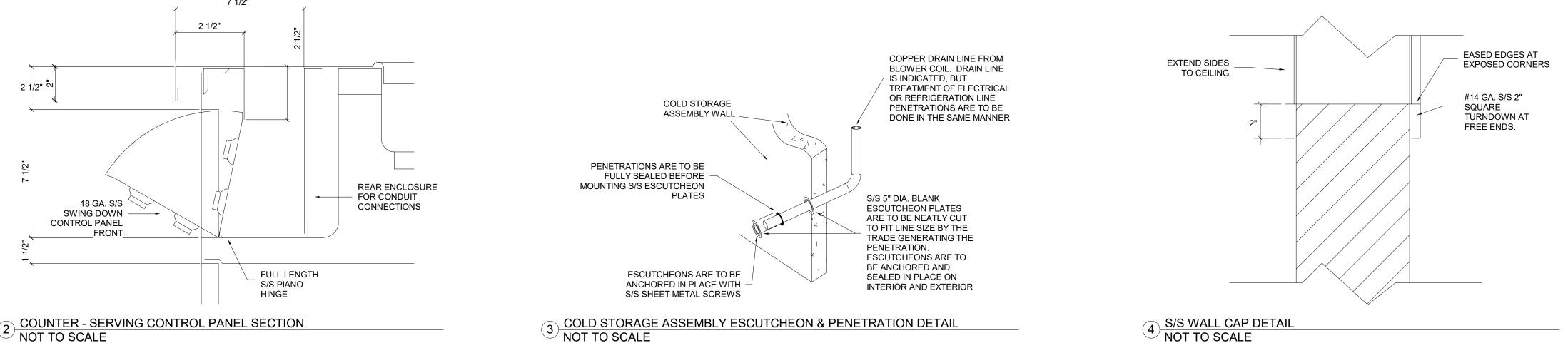
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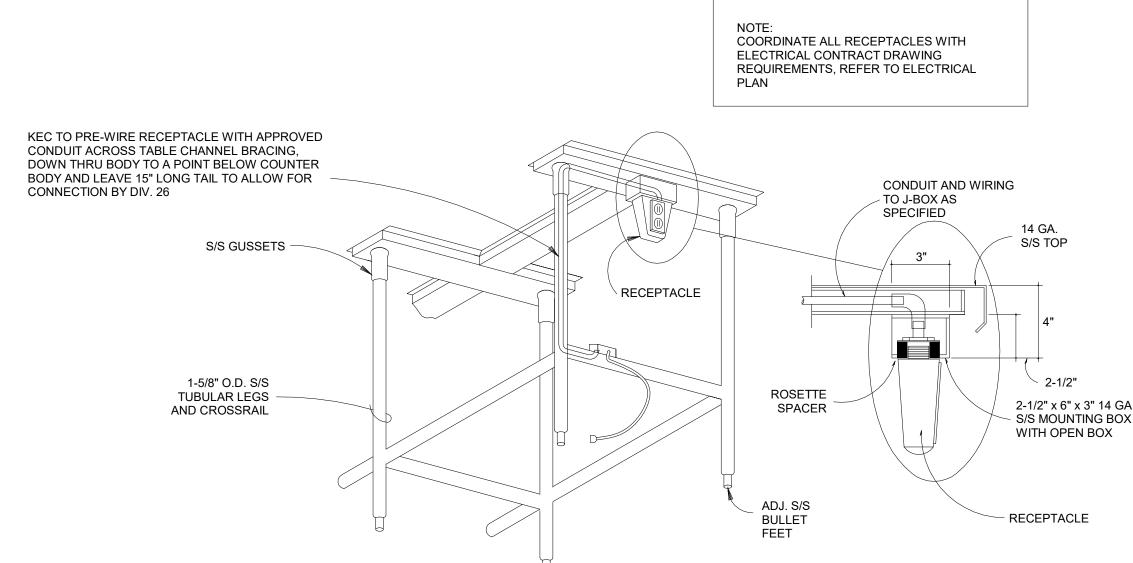
- #B62-1093 DOOR GUIDE.
- #B60-1086 DOOR STOPS WHERE NEEDED. D. #P62-1010 RECESS PULLS.

DESCRICTION DETAIL NOTES NOT TO SCALE

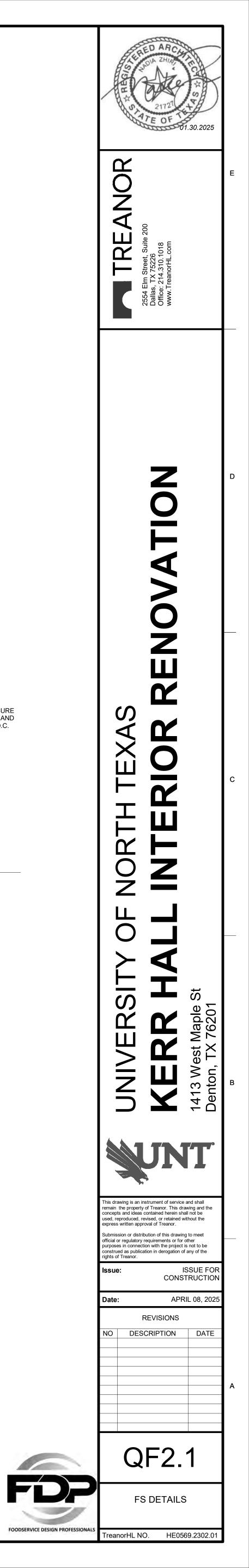
	Interim review only a construction. Architect: National and a construction. Architect: National and a construction. Registration: Date: States for a construction. Registration: Date: Date: States for a construction. March 1010100 March 20101013 March 20101013	E
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	remain the property of Treanor. This drawing and the concepts and ideas contained herein shall not be used, reproduced, revised, or retained without the express written approval of Treanor. Submission or distribution of this drawing to meet official or regulatory requirements or for other purposes in connection with the project is not to be construed as publication in derogation of any of the rights of Treanor. Issue: ISSUE FOR CONSTRUCTION Date: APRIL 08, 2025 REVISIONS NO DESCRIPTION DATE	A
FOODSERVICE DESIGN PROFESSIONALS	QF2 FS SECTIONS & DETAILS TreanorHL NO. HE0569.2302.01	

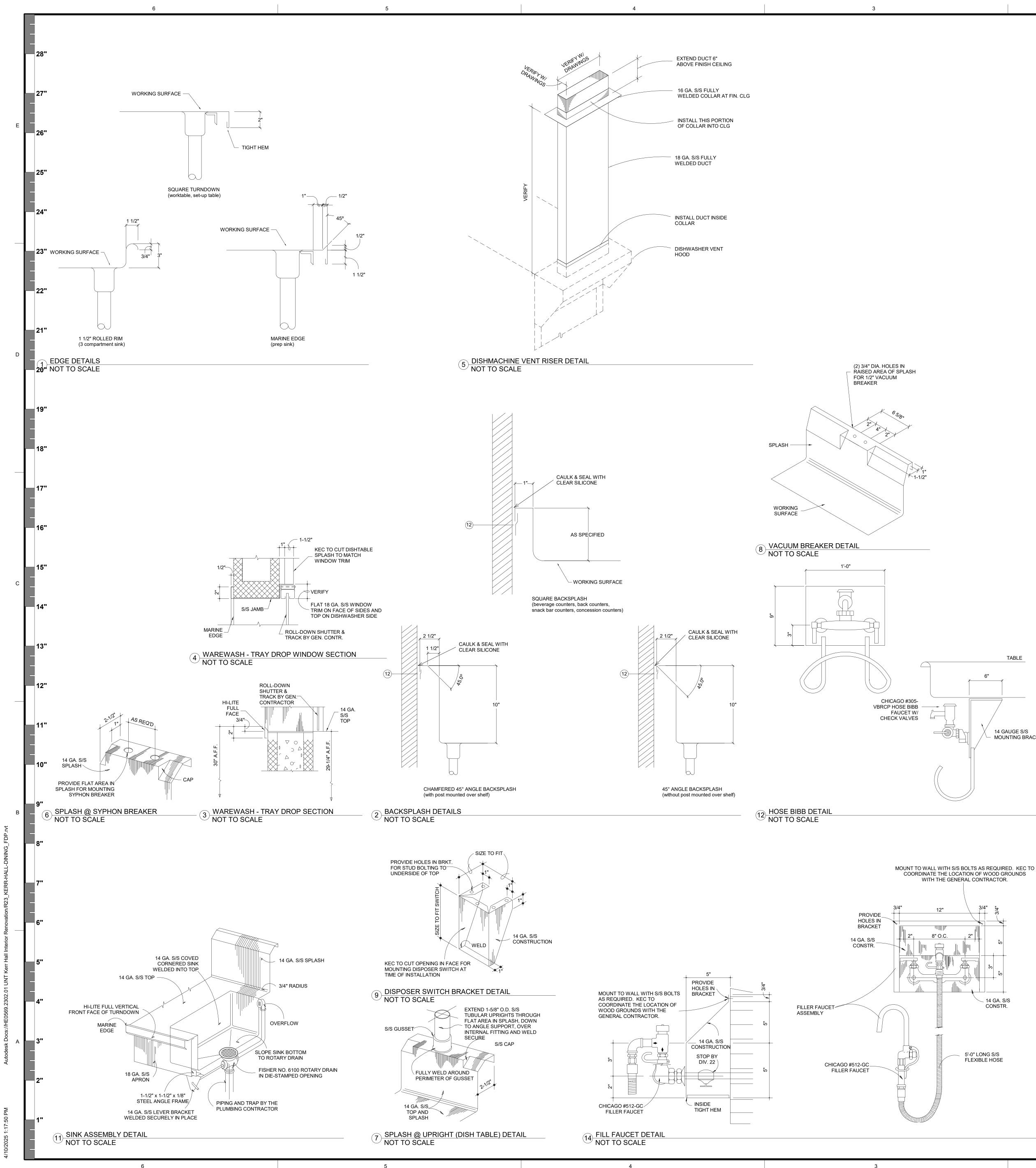












- 14 GAUGE S/S MOUNTING BRACKET

0.

R

S

CORNERS. MULTIPLE- COMPARTMENT PARTITIONS TO BE DOUBLE THICKNESS, CONTINUOUSLY WELDED WHERE SHEETS JOIN AT TOP. FRONT OF MULTIPLE-CREASED TO DRAIN.

CUSTOM FABRICATION NOTES

Α.

B

С

D.

- M. ENDS OF FIXTURES, SPLASHBACKS, SHELVES, ETC., SHALL BE FINISHED FLUSH TO WALLS OR ADJOINING FIXTURES.
- COMPARTMENT PARTITIONS TO BE CONTINUOUS ON EXTERIOR. BOTTOMS SHALL BE
- FABRICATE SINK COMPARTMENTS WITH 3/4" COVED VERTICAL AND HORIZONTAL

MANUFACTURER'S NAME AND NUMBER SO THAT BROKEN OR WORN PARTS MAY BE

N. DISHTABLES, DRAINBOARDS, SPLASHBACKS, AND TURN-UP EDGES SHALL HAVE RADIUS

BENDS IN ALL HORIZONTAL AND VERTICAL CORNERS, COVED AT INTERSECTIONS.

UNDERSIDES OF TOPS TO BE COATED WITH HEAVY-BODIED RESINOUS MATERIAL

AFTER REINFORCING MEMBERS HAVE BEEN INSTALLED, DRYING WITHOUT DIRT

Q. SHELVES ARE TO BE TURNED UP 2" ON THE BACK EDGE. TURN OTHER EDGES DOWN 1

SQUARE FOOT LOADING, PLUS 100% IMPACT LOADING.

METAL COMPONENTS, UNLESS SPECIFIED OR NOTED OTHERWISE,

1/2" TO FORM OPEN CHANNELS. REINFORCE SHELF UNITS TO SUPPORT 40 LBS. PER

TRIMWORK AND FRAMING AT MASONRY OPENINGS SHALL BE 18 GAUGE STAINLESS

FRAMING SHALL EXTEND A MINIMUM OF 2" ON EACH SURFACE. SEAL TRIMWORK TO

14 GAUGE STAINLESS STEEL

16 GAUGE STAINLESS STEEL

16 GAUGE STAINLESS STEEL

14 GAUGE STAINLESS STEEL

18 GAUGE STAINLESS STEEL

16 GAUGE STAINLESS STEEL

1

STEEL AND FORMED SO AS TO FIT SNUG TO WALLS AND ADJACENT SURFACES.

ROUNDED AND COVED CORNERS OR RADIUS BENDS SHALL BE 1/2" RADIUS OR LONGER.

COMPOUND FOR PERMANENT, NON-FLAKING ADHESION TO METAL, 1/8" THICK, APPLIED

WORK SHALL BE DONE IN AN APPROVED WORKMANLIKE MANNER, TO COMPLETE

STAINLESS STEEL SHALL BE U.S. STANDARD GAUGES AS CALLED FOR. 18-8, TYPE 304,

GALVANIZED IRON SHALL BE ARMCO OR EQUAL. FRAMEWORK OF GALVANIZED IRON

GALVANIZING HAS BURNED OFF, TOUCHED UP WITH HIGH-GRADE ALUMINUM BRONZE.

01. TO SINKS BY MEANS OF CLOSED GUSSETS. GUSSETS SHALL BE S/S, REINFORCED

02. TO TABLES AND DRAINBOARDS WITH CLOSED GUSSETS WHICH SHALL BE WELDED TO GALVANIZED HAT SECTIONS OR CHANNELS, 14 GAUGE OR HEAVIER, EXPOSED HAT SECTIONS HAVING CLOSED ENDS. BRACING SHALL BE UNDERSIDE OF TOPS.

SEAMS AND JOINTS SHALL BE SHOP-WELDED WHERE POSSIBLE. WELDS TO BE GROUND

AND POLISHED TO MATCH ORIGINAL FINISH. MATERIALS 18 GAUGE OR HEAVIER SHALL

CHANNELS WELDED IN PLACE. CROSSBRACE TO BE NOT MORE THAN 30" ON CENTERS.

HARDWARE SHALL BE SOLID MATERIALS AND EXCEPT WHERE EXPOSED OR SPECIFIED

TO THE CONTRARY, OF CAST BRASS, CHROME-PLATED. IDENTIFY ALL HARDWARE WITH

METAL TOPS SHALL BE ONE-PIECE WELDED CONSTRUCTION UNLESS SPECIFIED

OTHERWISE, REINFORCED ON UNDERSIDE WITH GALVANIZED HAT SECTIONS OR

SHALL BE WELDED CONSTRUCTION, HAVING WELDS SMOOTH, AND WHERE

LEGS AND CROSSRAIL SHALL BE CONTINUOUSLY WELDED, UNLESS OTHERWISE

BOTTOM OF LEGS AT FLOOR SHALL BE FITTED WITH SANITARY STAINLESS STEEL

WITH BUSHING, HAVING SET SCREWS FOR SECURING LEGS.

G. CLOSED GUSSETS SHALL BE 3" MINIMUM DIAMETER AT TOP, WELDED TO FRAME

H. ROLLS SHALL BE 1 1/2" DIAMETER, EXCEPT AS DETAILED TO THE CONTRARY, WITH

SATISFACTION OF FOODSERVICE DESIGN PROFESSIONALS (FDP).

BULLET-TYPE FOOT, WITH NO LESS THAN 1/2" ADJUSTMENT.

NOT OVER .012% MAXIMUM CARBON, NO. 4 FINISH.

F. LEGS SHALL BE FASTENED TO EQUIPMENT AS FOLLOWS:

CORNERS BULLNOSED, GROUND, AND POLISHED.

NOTED, AND GROUND SMOOTH.

MEMBERS OR TO SINK BOTTOM.

ORDERED AND REPLACED.

CATCHING CREVICES.

WALLS. REFER TO DRAWINGS.

TABLETOPS

WALL SHELVES

UNDER SHELVES

EXHAUST DUCTS

LEGS - 1 5/8" DIA.

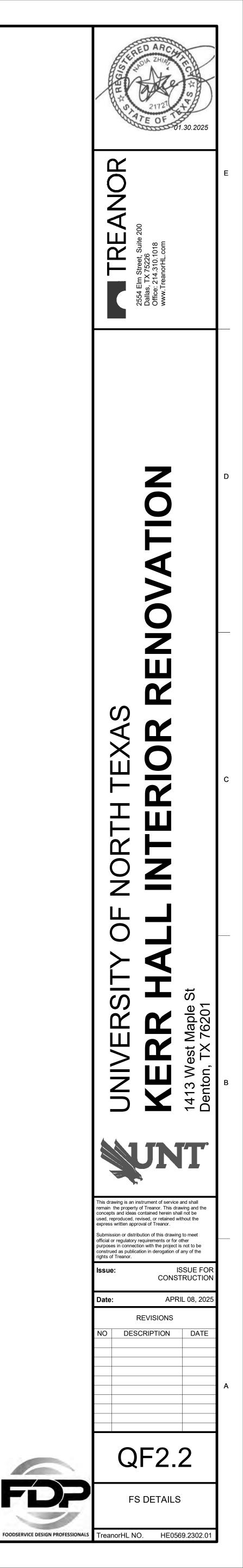
10 CUSTOM FAB NOTES NOT TO SCALE

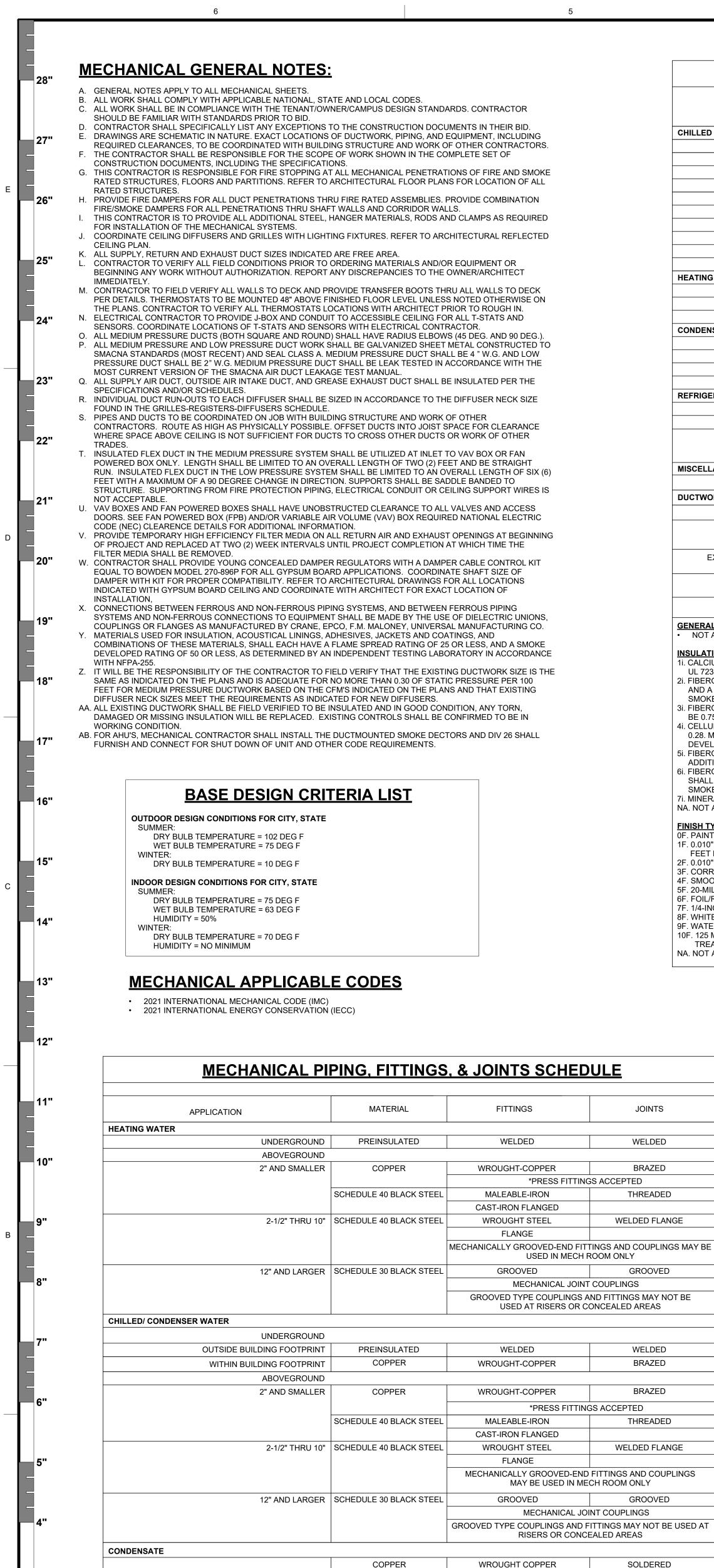
2

TO BE THE FOLLOWING GAUGES:

SINKS & DRAINBOARDS

BE WELDED.





. *SHARKBITE IS NOT ACCEPTED. ACCEPTABLE PRESS FITTINGS MANUFACTURER ARE: NIBCO, VIEGA-PROPRESS, VIEGA MEGAPRESS, PARKER-ZOOMLOCK (REFRIGERANT PIPING ONLY). 2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

ACR

WROUGHT COPPER

5

3. NOT ALL PIPE TYPES MAY BE USED. REFER TO FLOOR PLANS FOR FURTHER DETAILS.

REFRIGERANT

6

	ICAL INSUL					
	INSUL	ATION		INSULATION FINISH		
APPLICATION	INSULATION TYPE	THICKNESS	INDOOR CONCEALED	INDOOR EXPOSED INCL. MECH ROOMS	OUTDOOR	
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	FIBERGLASS 5i	1.5"	NA	0F	NA	
OUTSIDE AIR DUCTS IN PUBLIC AREAS:	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	

NOT ALL PIPE AND DUCT TYPES MAY BE USED IN PLAN. REFER TO FLOOR PLANS FOR MORE INFORMATION.

INSULATION MATERIALS:

1i. 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. 2i. FIBERGLASS BOARD - PROVIDE SEMI-RIGID FIBERGLASS BOARD WITH A DENSITY OF 3 LBS/FT3. 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

3I. 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/FT3. NFPA 255 AND UL 723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPMENT.

4i. CELLULAR FOAM - EQUAL TO AP/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 CFCS, HFCS, OR HCFCS

5i. FIBERGLASS DUCT LINER W/ ANTIMICROBIAL RESISTANT COATING OR CLOSED-CELL ELASTOMERIC DUCT LINER - REFER TO SECTION 23313 FOR ADDITIONAL INFORMATION 6i, FIBERGLASS PIPE INSULATION ONLY WHERE SPECIFICALLY CALLED FOR ON DRAWINGS OR IN SPECS - 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/FT3/ NFPA 255 AND UL 7723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPED. 7i. MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I OR II.

<u>FINISH TYPES:</u>

0F. PAINT GRIP FINISH 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. 2F. 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. FOIL/REINFORCED/KRACT JACKET (VAPOR BARRIER).

7F. 1/4-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 NONE REQUIRED.

NA. NOT APPLICABLE OR NONE REQUIRED.

SOLDERED

BRAZED

	FURNISHED BY	INSTALLED BY
EXPOSED CEILINGS AND INACCESSIBLE CEILINGS		
Conduit for Fire Alarm Wiring	<u> </u>	E
Conduit for Controls Wiring	TC	TC
EXPOSED CEILINGS AND INACCESSIBLE CEILINGS	М	М
Duct Mounted Smoke Detectors	FA	M
Area Type Smoke Detectors	FA	FA
Fire Alarm Shut-Down Interlock Modules	FA	TC
Motorized Control Dampers	MANUFACTURER	MANUFACTURE
24 Volt Power to Dampers	TC	TC
Damper Actuator	TC	M
/RV FAN COIL UNITS AND CONDENSING UNITS		
24 Volt DDC Controllers	TC AND MANUF.	MANUFACTURE
24 Volt Wiring from Transformer to all Controllers	MANUFACTURER	TC
Control Wiring Between FCU Box and Thermostat	MANUFACTURER	тс
Fire Alarm Panel (FAP) and Fire Alarm Boosters	FA	FA
Fire Alarm System Conduits	FA	FA
120 Volt Emergency Power (Dedicated Circuits) for Fire Alarm Panel	E	E
20 Volt Emergency Power (Dedicated Circuits) for Fire Alarm Boosters	E	E
MOTORIZED FIRE & COMBINATION FIRE/SMOKE DAMPERS		
Motorized Fire & Combination Fire/Smoke Dampers	M	М
	E	E
Control Wiring	FA	FA
Power Conduit	E	E
Power Wiring	E	E
LIGHTING CONTROL		
Lighting Control Panel	E	E
Lighting Control Panel to FMS Interface Card		
Control Wiring to Master Lighting Control Panel Interface Card from FMS	TC	TC
Control Wiring Between Lighting Control Panels	E	E
Satellite Lighting Control Panels	E	E
Override Switch Wiring	E	E
Lighting Control Panel Override Switches	E	E
Lighting Control Panel Programming	E	E
		<u> </u>

TC = TEMPERATURE CONTROLS/EMS SUB-CONTRACTOR

4

D= TELECOMMUNICATIONS CONTRACTOR

EQUIP NO.
E-AHU-A1-1
E-AHU-A1-4
E-AHU-A1-5
REF-K-1
GEF-1
KEF-1
TEF-K-1
TEF-K-2
TOTALS:
** RELIEF F

3

	HVAC SYMBOLS
MBOL	DESCRIPTION
	ARROW INDICATES EXISTING TO BE RELOCATED AS INDICATED ON PLAN
0	REDISTRIBUTE AIR TO EXISTING DIFFUSER AS INDICATED ON PLAN
)X10)0,A	INDICATES SIZE, CFM, AND DIFFUSER TYPE
X	NEW CEILING SUPPLY DIFFUSER
\sum	NEW RETURN AIR/EXHAUST GRILLE
\sum	EXISTING RETURN AIR/EXHAUST GRILLE
	NEW SLOT DIFFUSER
<i>~~</i>	EXISTING SLOT DIFFUSER
•	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
[E]	EXISTING TO REMAIN
	REMOVE EXISTING AS INDICATED
]	CAP EXISTING DUCT
	MANUAL VOLUME CONTROL DAMPER
	DUCT TRANSITION
	FIRE (SMOKE) DAMPER (24V ACTUATOR)
)	NEW OR RELOCATED THERMOSTAT
)	EXISTING THERMOSTAT
<u></u>	FLEXIBLE DUCT
~~~	INDICATES A WALL TO DECK (FOR COORDINATION PURPOSE ONLY-REFER TO ARCHITECTS PLANS FOR REQUIREMENTS
	EXISTING DIFFUSER LOCATED ABOVE CEILINIG AND NOT INSTALLED IN CEILING
0	MOTORIZED DAMPER
0	REDISTRIBUTE AIR TO EXISTING LUMINAIRE AIR DIFFUSER AS INDICATED ON PLAN
	NEW CEILING LUMINAIRE AIR DIFFUSER
<u>+</u>	SPIN-IN FITTING WITH DAMPER (RECTANGULAR TO ROUND)
	SPLIT BRANCH TAKE-OFF WITH RADIUS ELBOW MEDIUM PRESSURE DUCT
<u>,</u>	DOUBLE THICKNESS TURNING VANES
 CHS	CHILLED WATER SUPPLY PIPING
HR—	CHILLED WATER RETURN PIPING
WS—	CONDENSOR WATER SUPPLY PIPING
WR—	CONDENSOR WATER RETURN PIPING
<u>с</u>	CONDENSATE DRAIN PIPING
	PRESSURE REDUCING VALVE/FLOW CONTROL VALVE
	ASME TEMPERATURE & PRESSURE RELIEF VALVE
	THERMOMETER
	BLOCK VALVE, SHUT-OFF VALVE
$\overline{\mathbb{A}}$	GATE VALVE
3⊩	BALL VALVE
	GLOBE VALVE
<b>↓</b> ⊩	BUTTERFLY VALVE
-+->	PIPING DOWN
-+0	PIPING UP - OR - PIPING UP & DOWN
]	CAP ON END OF PIPE
	PETE'S PLUG
	GAS COCK
	PRESSURE GAUGE W/ COCK
<u> </u>	MEDIUM TO LOW PRESSURE GAS REGULATOR
<u>∽</u>	
<u> </u>	STRAINER
<del>y</del> " ;02)	CO2 MONITOR
$\mathcal{I}$	

SV

SUPPLY CFM	MIN O.A. CFM	MAX O.A. CFM	MIN. EXHAUST CFM	MAX EXHAUST CFM	RELIEF CFM
12,500	3750	7,250			
14,000	2000	7,250			
7,952	0	7,952			
					3705
			0	19,657	
			0	750	
			200	200	
			700	700	
34,092	5750	22,452	900	21,307	3705

2

THE BUILDING IS 1145 CFM POSITIVE

FAN ONLY TO RUN WHEN GEF-1 IS NOT RUNNING. ** UNITS TO ONLY RUN MIN. OA WHEN GEF-1 IS NOT RUNNING. MEDIUM PRESSURE DUCTWORK SHALL BE SIZED AT 2500 FEET PER MINUTE. LOW PRESSURE DUCTWORK SHALL SIZED FOR A FRICTION LOSS OF 0.08"/100'. TOILET AND GENERAL EXHAUST SIZED FOR A FRICTION LOSS OF 0.08"/100'. GREASE EXHAUST DUCTWORK SHALL BE SIZED AT 1500 FEET PER MINUTE. REFER TO iM5.02 FOR GREASE DUCT INSULATION AND DUCT CONSTRUCTION. DISHWASHER EXHAUST DUCT SHALL BE STAINLESS STEEL OR ALUMINUM.

FOR MEDIUM PRESSURE DUCTWORK ABOVE CEILINGS, MEDIUM PRESSURE DUCTWORK SHALL BE EXTERNALLY INSULATED. FOR LOW PRESSURE DUCTWORK ABOVE CEILINGS LOW PRESSURE DUCTS TO BE EXTERNALLY INSULATED. ALL RETURN DUCTS TO BE INTERNALLY LINED WITH NONFIBOROUS LINER.

IN EXPOSED CEILINGS, MEDIUM PRESSURE SUPPLY DUCTS TO BE TO BE INTERNALLY LINED FLAT OVAL DUCT WORK. IN EXPOSED CEILINGS, LOW PRESSURE SUPPLY DUCTS TO BE INTERNALLY LINED ROUND SPIRAL DUCT.

CONTRACTOR SHALL PROVIDE YOUNG CONCEALED DAMPER REGULATORS WITH A DAMPER CABLE CONTROL KIT EQUAL TO YOUNG REGULATOR/BOWDEN FOR ALL INACCESSIBLE CEILING (GYPSUM BOARD, ETC.) APPLICATIONS, ADJUSTMENT DEVICE SHALL BE ACCESSIBLE AT FACE OF DIFFUSER AND NOT INSTALLED IN CEILING. COORDINATE WITH YOUNG REGULATOR REPRESENTATIVE AT TEXAS AIR SYSTEMS FOR DIFFUSER FACE ADJUSTABLE KIT REQUIRED FOR EACH TYPE OF DIFFUSER IN INACCESSIBLE CEILING. COORDINATE SHAFT SIZE OF DAMPER WITH KIT FOR PROPER COMPATIBILITY. ANY DEVICES AT CEILING SHALL BE CENTERED AND SYMMETRICAL WITHIN CEILING. COORDINATE ALL LOCATIONS WITH

ARCHITECT.

ALL DUCT WORK IN EXPOSED AREAS TO HAVE A PAINT GRIP FINISH. COORDIANTE THE COLOR THAT THE DUCT WORK IS TO BE PAINTED WITH THE ARCHITECT.

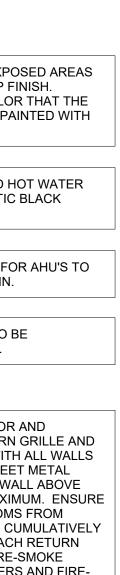
ALL NEW CHILLED AND HOT WATER PIPING TO BE DOMESTIC BLACK

STEEL.

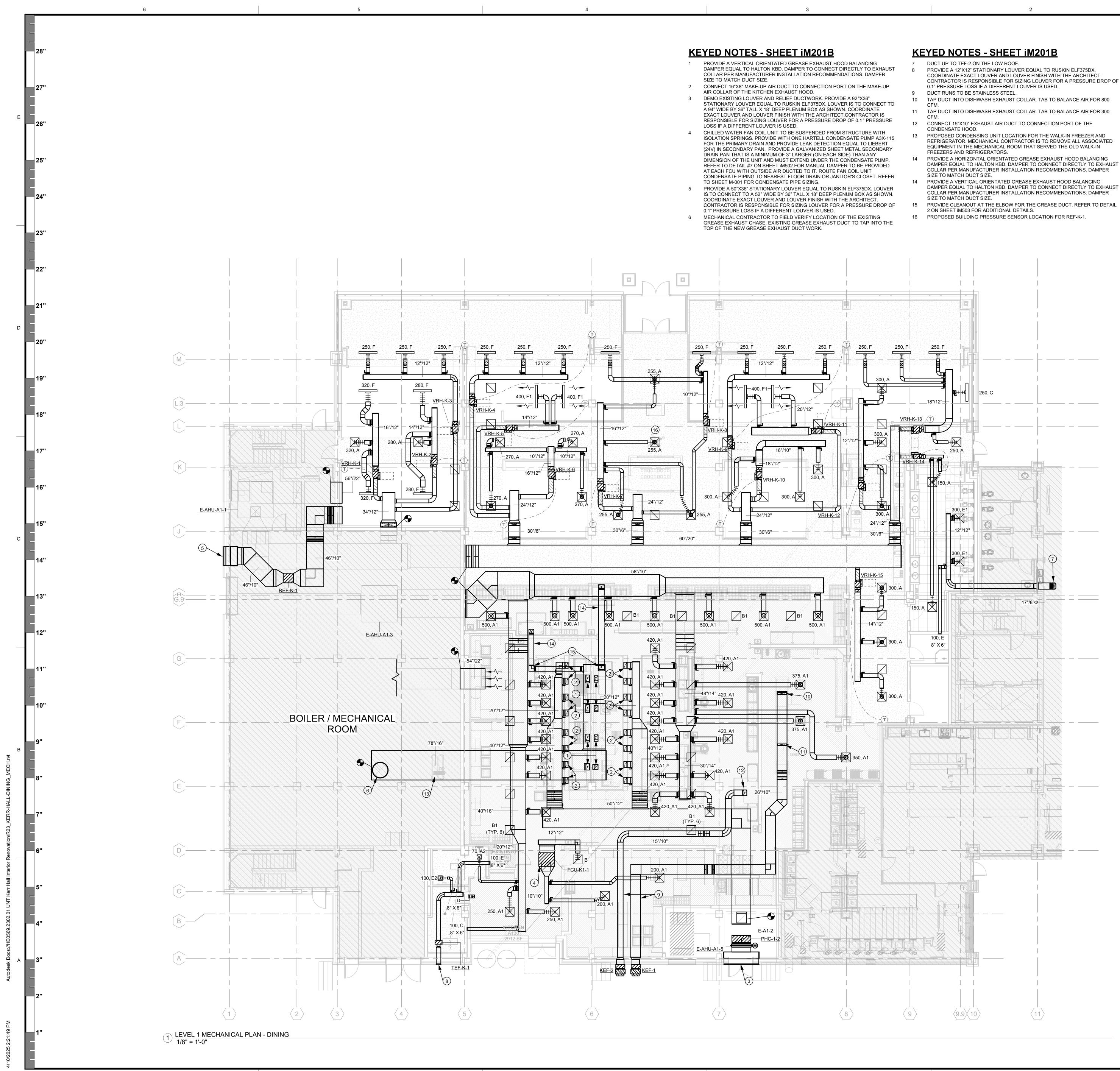
ROUTE CONDENSATE FOR AHU'S TO NEAREST FLOOR DRAIN.

TEST AND BALANCE TO BE CONTRACTED BY UNT.

ALL ENCLOSED ROOMS (INTERIOR AND PERIMETER) SHALL HAVE RETURN GRILLE AND A RETURN AIR PATH. ROOMS WITH ALL WALLS TO DECK SHALL HAVE LINED SHEET METAL RETURN AIR BOOTS PLACED IN WALL ABOVE CEILING SIZED FOR 500 FPM MAXIMUM. ENSURE RETURN AIR PATH FOR ALL ROOMS FROM ROOM TO UNIT SERVING ROOM, CUMULATIVELY ADD ALL RETURN AIR CFM AT EACH RETURN TRANSFER. FIRE RATED AND FIRE-SMOKE WALLS SHALL HAVE FIRE DAMPERS AND FIRE-SMOKE DAMPERS WITHIN THE DUCT PER LOCAL CODE REQUIREMENTS.



D. SCOTT BROWN 89097 804 1-30-Z0Z5	
2554 Elm Street, Suite 200 Dallas, TX 75226 Office: 214.310.1018 www.TreanorHL.com	E
©2023 Purdy - McGuire Mechanical - Electrical Engineers 17300 North Dallas Parkway Suite 3000 Dallas, TX 75248-1147 Firm Registration # F-1511 Te: 972/239-5231 Ww.purdy-mcguire.com PROJECT MGR. 20037.002 PROJECT MGR. 20037.002 PROJECT MGR. 20037.002 MECHANICAL JUNCHELL HENTON PLUMBING CHARING 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 NOTED IN THE TITLE BLOCK STATE NOTED IN THE TITLE BLOCK WITHOUT THE WRITTEN CONSENT OF PURDY-McGUIRE, INC. DALLAS, TX	D
DF NORTH TEXAS L INTERIOR REN	С
UNIVERSITY C KERR HAL 1413 West Maple St Denton, TX 76201	В
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IMOO1 MECHANICAL NOTES & SYMBOLS TreanorHL NO. HE0569.2302.01	



6

5

3

- CONTRACTOR IS RESPONSIBLE FOR SIZING LOUVER FOR A PRESSURE DROP OF 10 TAP DUCT INTO DISHWASH EXHAUST COLLAR. TAB TO BALANCE AIR FOR 800 11 TAP DUCT INTO DISHWASH EXHAUST COLLAR. TAB TO BALANCE AIR FOR 300 13 PROPOSED CONDENSING UNIT LOCATION FOR THE WALK-IN FREEZER AND REFRIGERATOR. MECHANICAL CONTRACTOR IS TO REMOVE ALL ASSOCIATED
  - 14 PROVIDE A HORIZONTAL ORIENTATED GREASE EXHAUST HOOD BALANCING DAMPER EQUAL TO HALTON KBD. DAMPER TO CONNECT DIRECTLY TO EXHAUST COLLAR PER MANUFACTURER INSTALLATION RECOMMENDATIONS. DAMPER
- COLLAR PER MANUFACTURER INSTALLATION RECOMMENDATIONS. DAMPER 15 PROVIDE CLEANOUT AT THE ELBOW FOR THE GREASE DUCT. REFER TO DETAIL

2

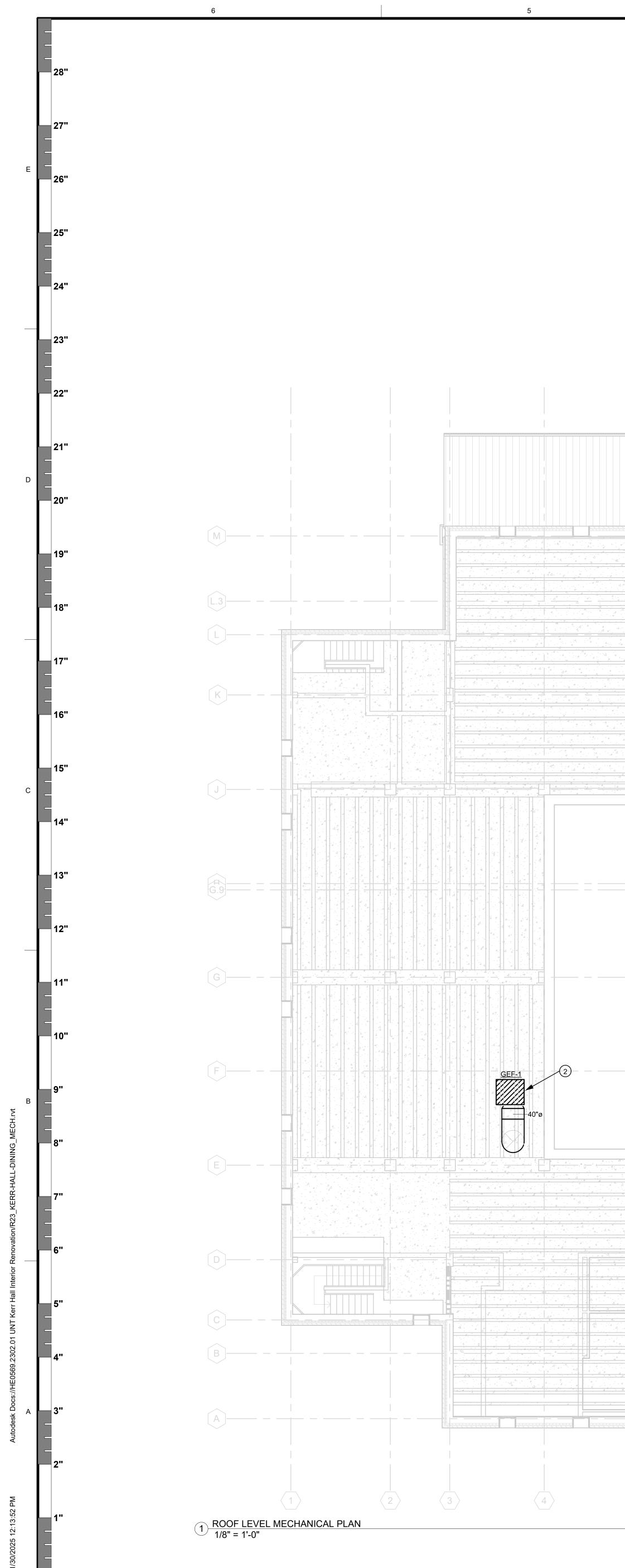
KITCHEN & DINING NO WORK LOBBY

1

KEY PLAN

D. SCOTT BROWN B9097 B0 ESSIONAL ENOMINE 1-30-Z025	
REANOR et, Suite 200 0.1018 J. com	E
© 2023 Purdy - McGuire 0 0 0 0 0 0 0 0 0 0 0 0 0	
PMI JOB NO.       23037.002         PROJECT MGR.       SCOTT BROWN,         MITCHELL HENTON         PLUMBING       CHRIS WOODYARD         ELECTRICAL       JOHN KNOWLES         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	
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	В
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REVISIONS         NO       DESCRIPTION       DATE	А
IM201B LEVEL 1 MECHANICAL PLAN - DINING	
TreanorHL NO. HE0569.2302.01	

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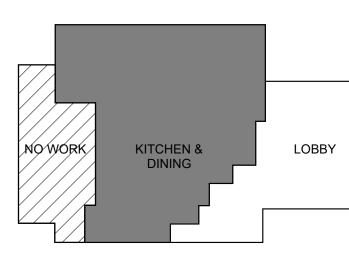
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	4	

3

# KEYED NOTES - SHEET iM202

 FAN LOCATED ON LOW ROOF ABOVE THE LOBBY.
 DEMO EXISTING GREASE EXHAUST FAN AND REPLACE WITH NEW FAN SHOWN.



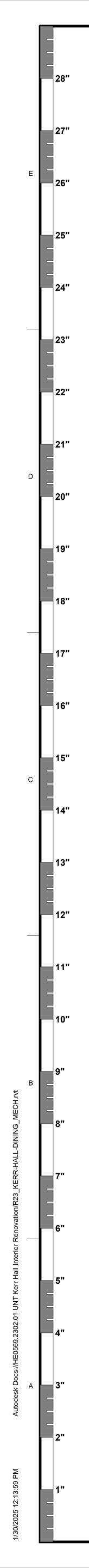
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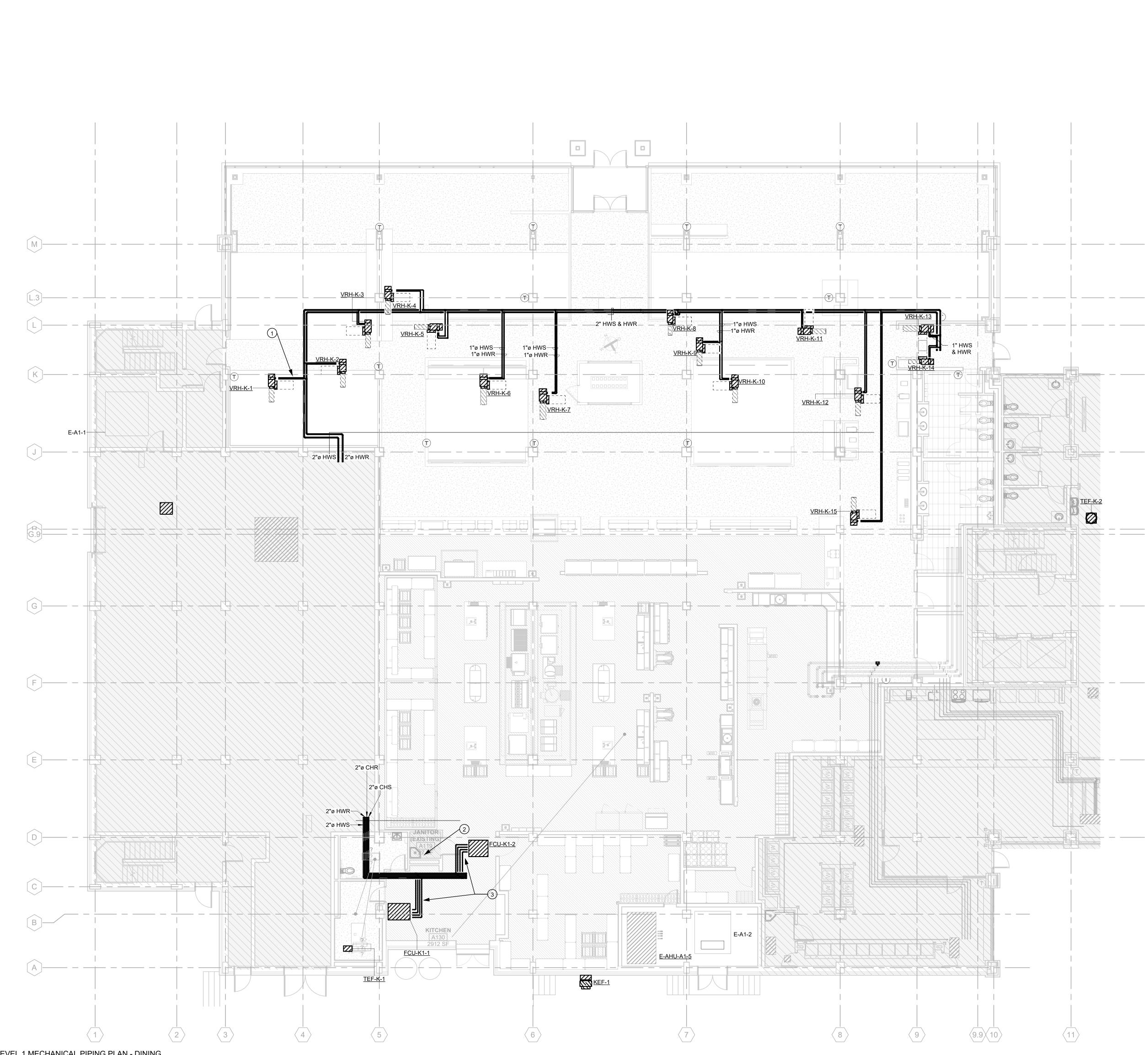
KEY PLAN

2

	D. SCOTT BROWN B 89097 CENSED CONNAL ENGINE 1-30-Z025	
	2554 Elm Street, Suite 200 Dallas, TX 75226 Office: 214.310.1018 www.TreanorHL.com	E
	C 2023       Purdy - McGuire         Mechanical - Electrical Engineers         17300 North Dallas Parkway         Suite 3000         Dallas, TX 75248-1147         Firm Registration # F-1511         Tel:       972/239-5357         Fax:       972/239-5321         PROJECT MGR.       23037.002         PROJECT MGR.       SCOTT BROWN,         MITCHELL HENTON         PLUMBING       CHRIS WOODYARD         ELECTRICAL       JOHN KNOWLES         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	D
1	ENOVATION	
	OF NORTH TEXAS L INTERIOR R	С
	UNIVERSITY KERR HAI 1413 West Maple St Denton, TX 76201	В
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ÚRK	ROOF LEVEL MECHANICAL PLAN	
	TreanorHL NO. HE0569.2302.01	

NO WORK

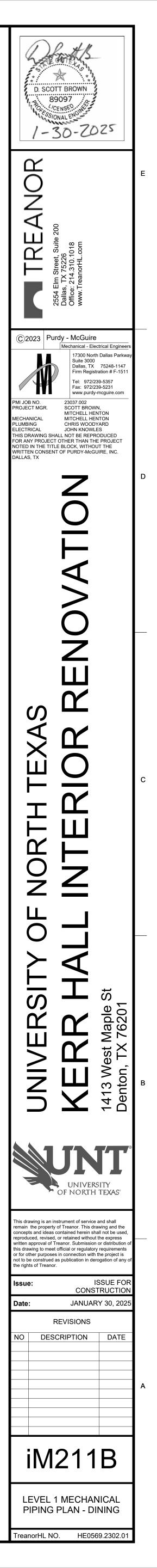


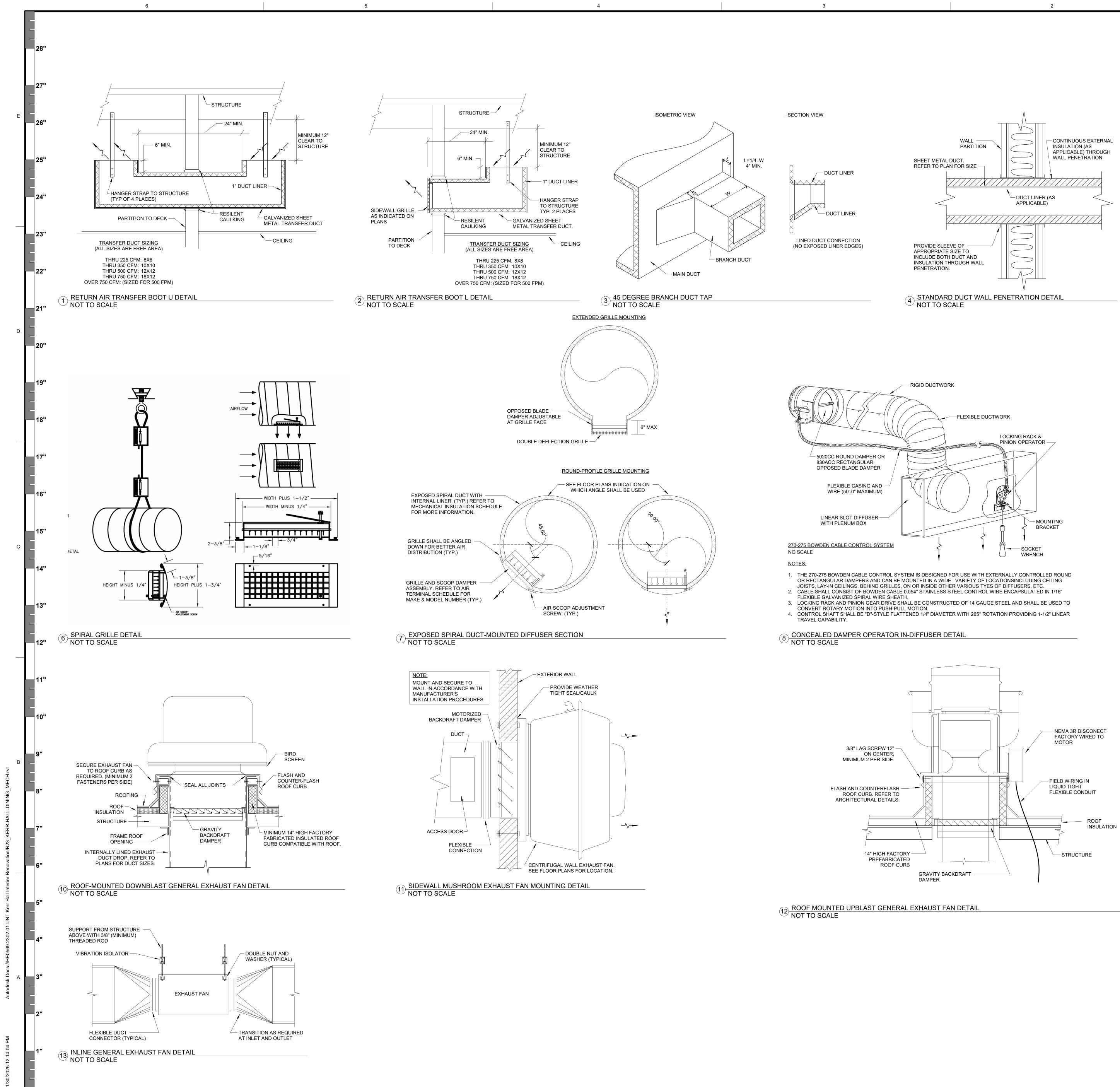




### KEYED NOTES - SHEET iM211B

- TYPICAL 3/4" HWS & HWR PIPING TO VRH BOXES UNLESS OTHERWISE NOTED (IF >3 GPM, USE 1" PIPE).
   ROUTE CONDENSATE FROM FCU-K1-1 AND FCU-K1-2 TO MOP SINK LOCATED IN JANITOR CLOSET
- 3 CONNECT 3/4" CHWS AND CHWR AND 3/4" HWS AND HWR TO FAN COIL UNIT FROM NEW CHILLED AND HOT WATER LINES.

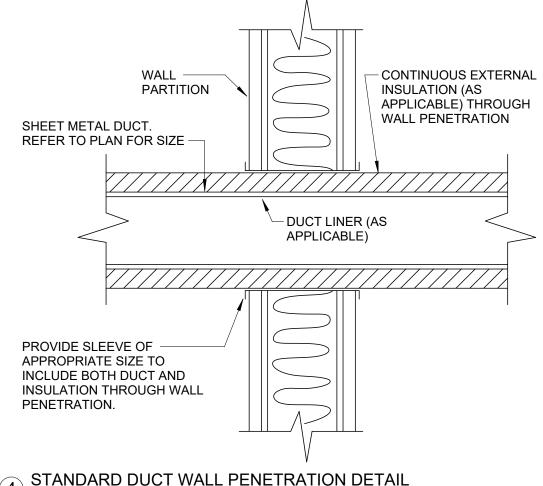


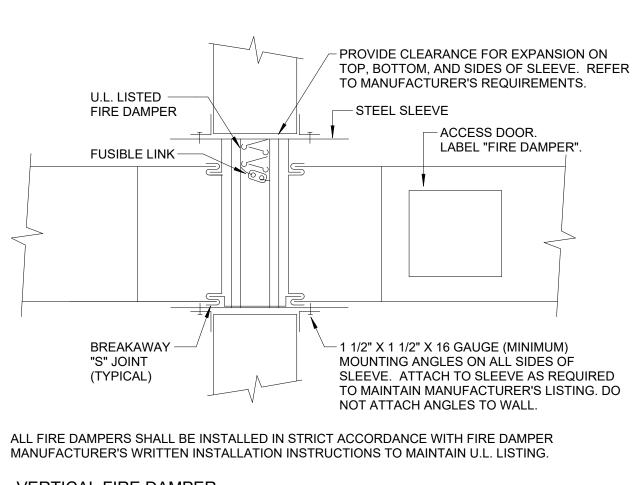


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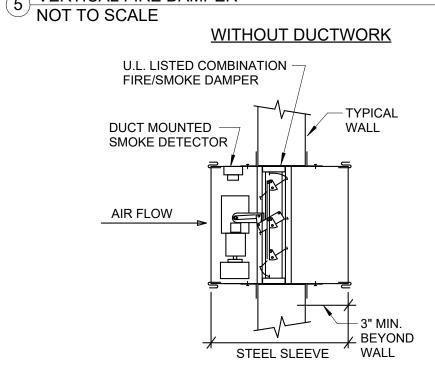
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VERTICAL FIRE DAMPER



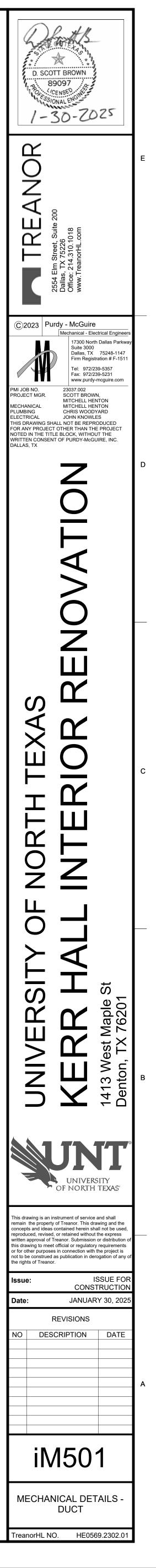
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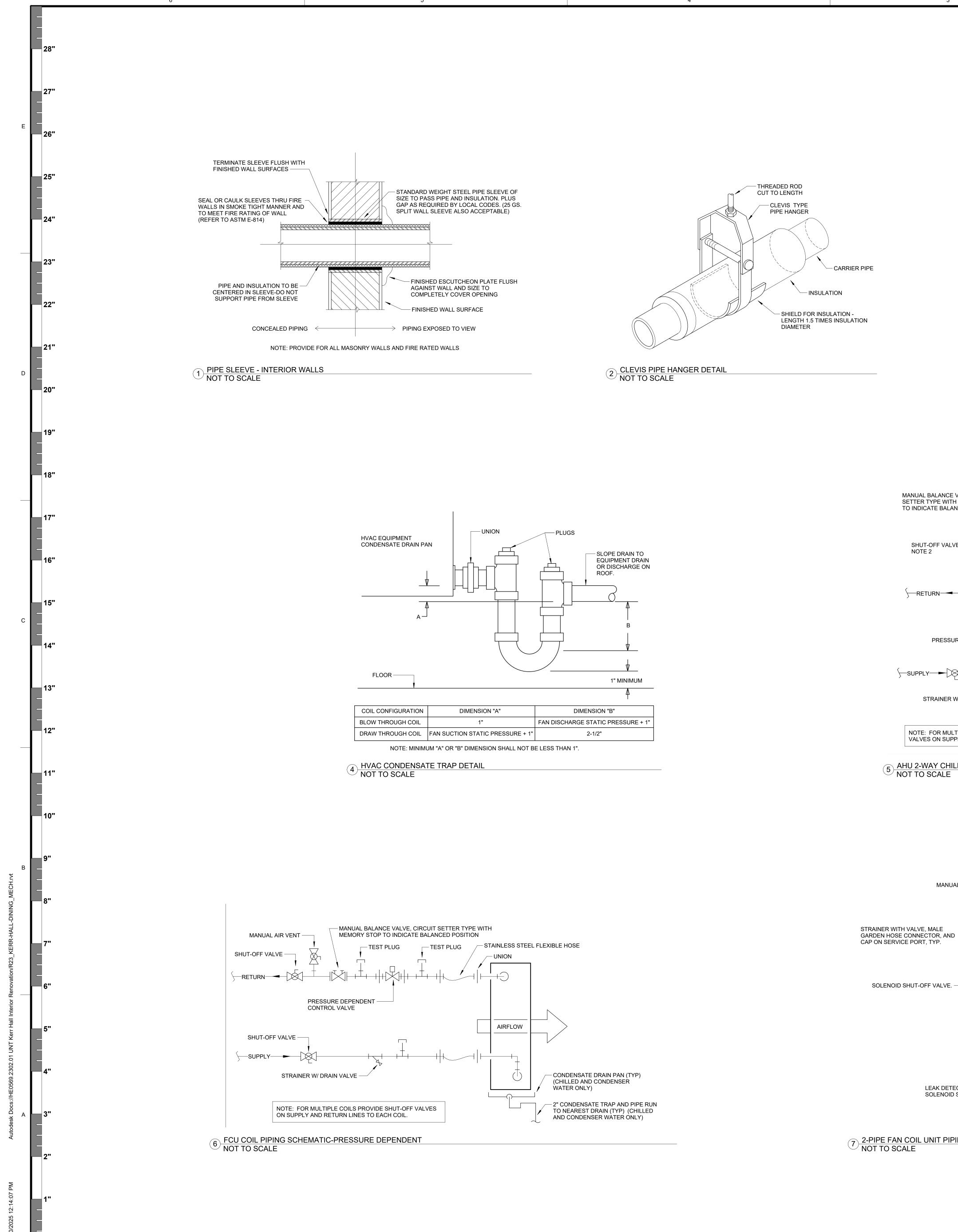
WITH DUCTWORK U.L. LISTED COMBINATION FIRE/SMOKE DAMPER -DUCT MOUNTED SMOKE DETECTOR - TYPICAL ACCESS DOOR. LABEL WALL "FIRE/SMOKE DAMPER." DUCT — AIR FLOW ELECTRIC ACTUATOR JUNCTION BOX -— 3" MIN. L BEYOND BREAKAWAY "S" -STEEL SLEEVE "WALL JOINT (TYP.) NOTES: 1. ALL FIRE DAMPERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH FIRE DAMPER MANUFACTURER'S WRITTEN INSTALLATION

1

INSTRUCTIONS TO MAINTAIN U.L. LISTING. 2. HORIZONTAL MOUNT SIMILAR. FIRE/SMOKE DAMPER DETAIL

NOT TO SCALE





6

# R.A. _**_**

ACOUSTICALLY LINED R.A. DUCT -

# LEAK DETECTOR. CONNECT TO SOLENOID SHUT-OFF VALVE.

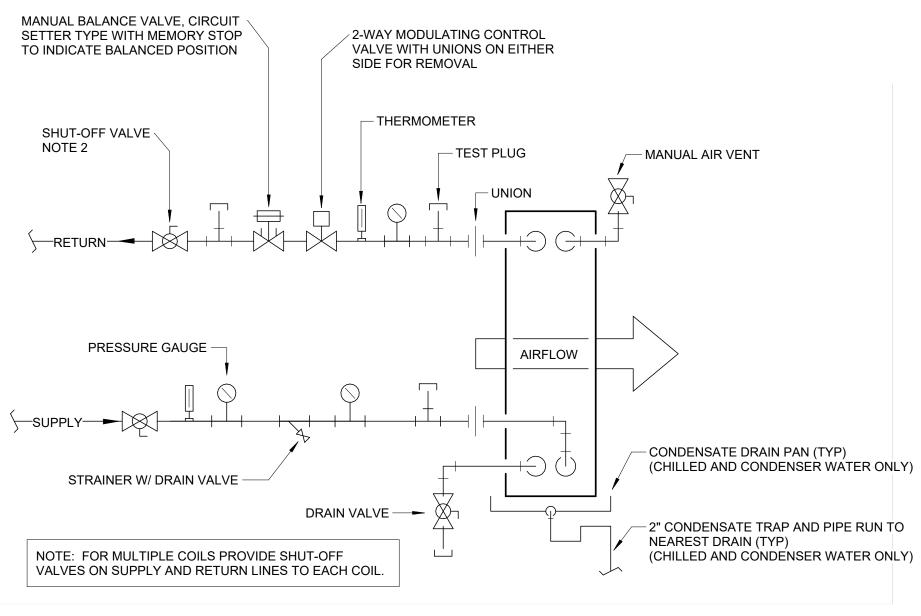
7 2-PIPE FAN COIL UNIT PIPING DETAIL NOT TO SCALE

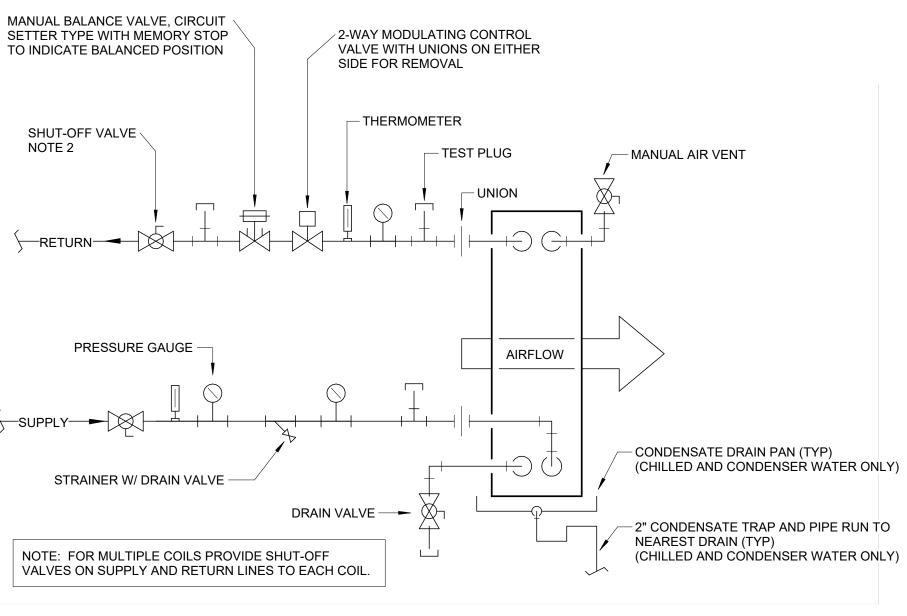
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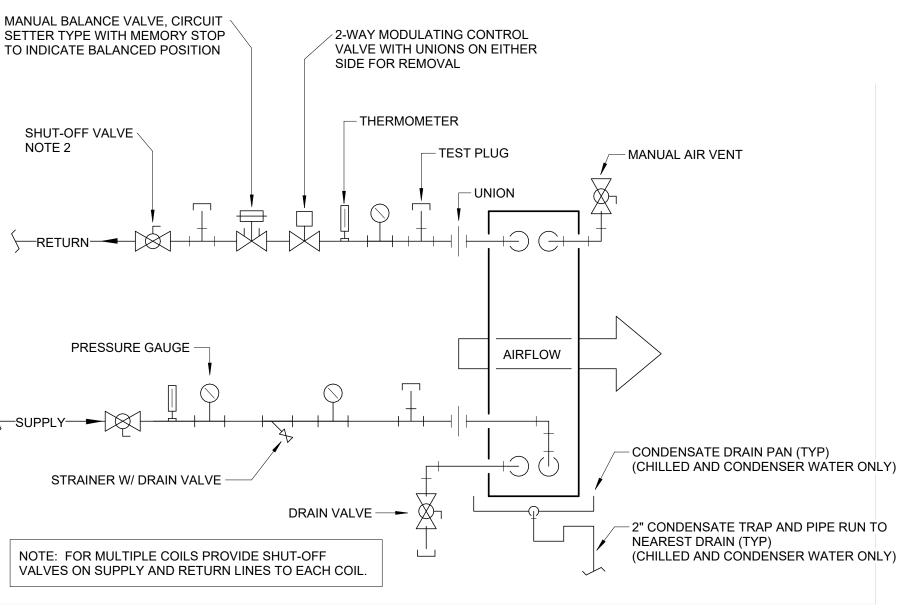
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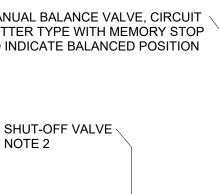
SOLENOID SHUT-OFF VALVE.

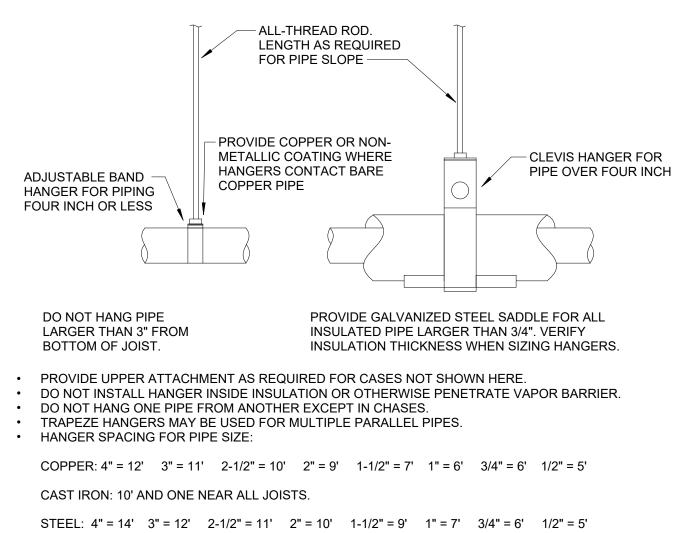
5 AHU 2-WAY CHILLED AND HOT WATER COIL PIPING DETAIL NOT TO SCALE







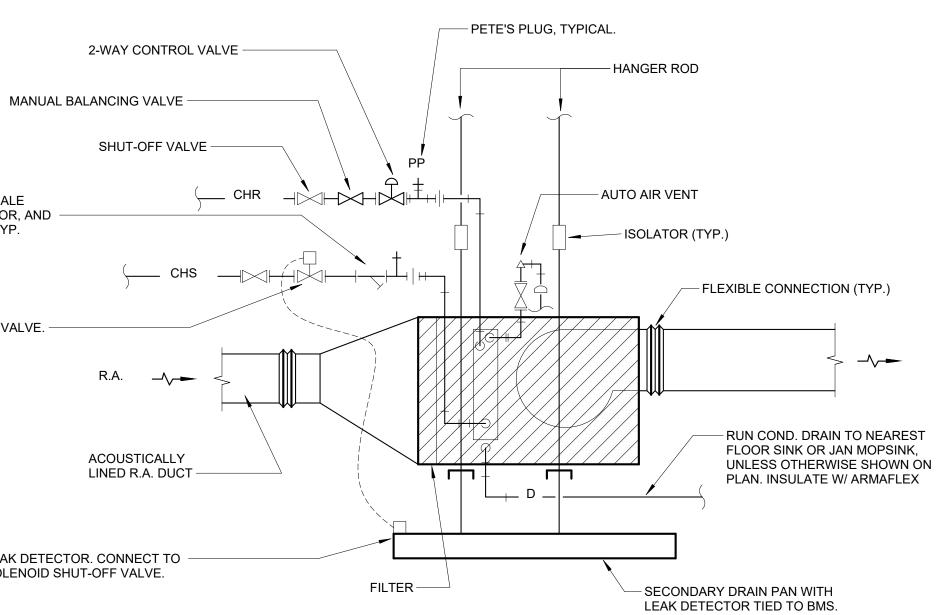




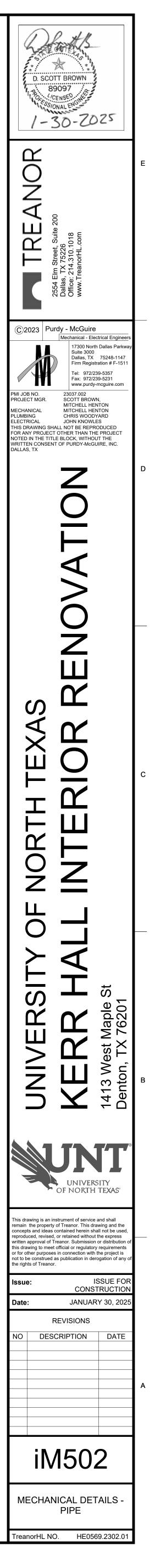
- LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE.
- PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED. LOCATE HANGERS TO TAKE LOAD OFF EQUIPMENT CONNECTIONS.
- ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. • PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES.
- CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE. • REFER TO CODES FOR FURTHER INFORMATION.

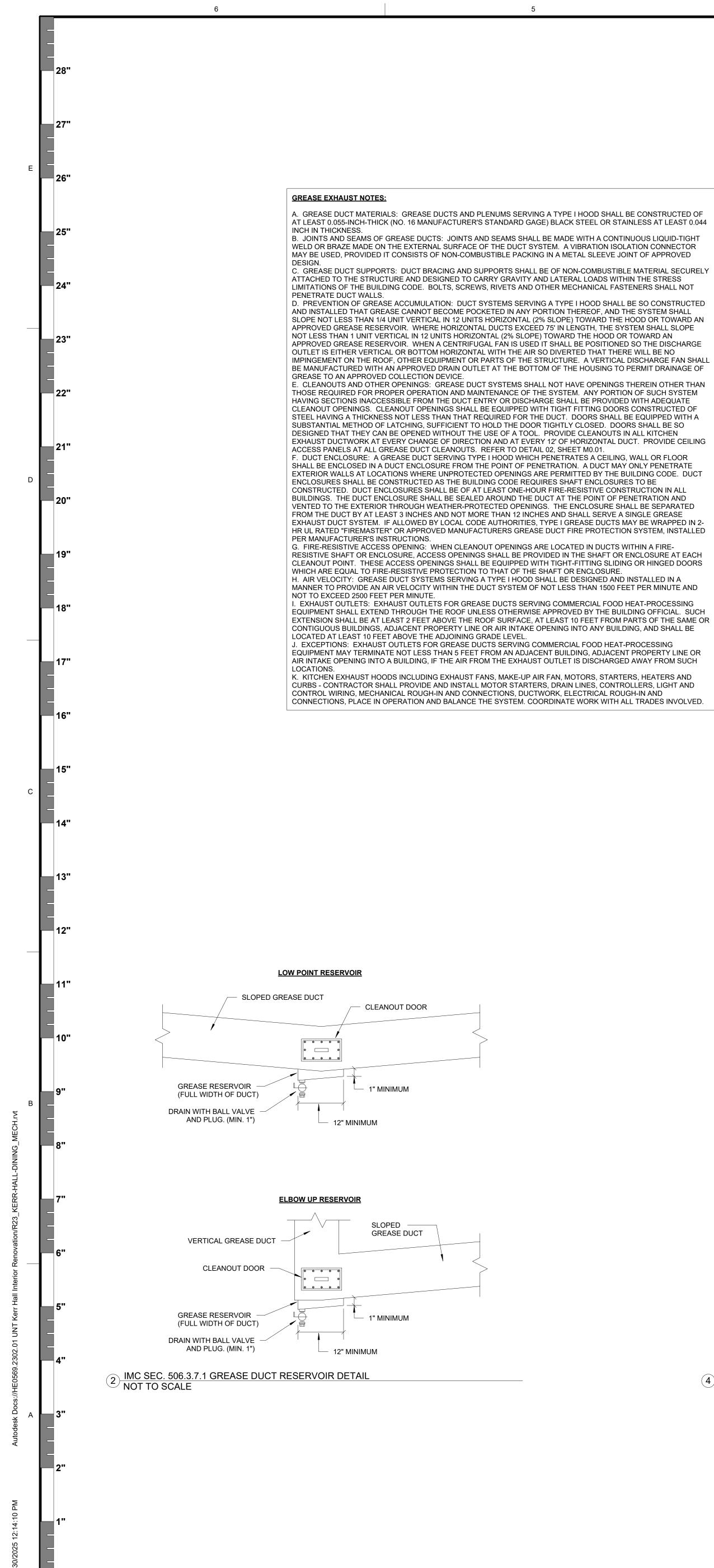
**PIPE INSULATION/HANGER DETAIL** ¹NOT TO SCALE





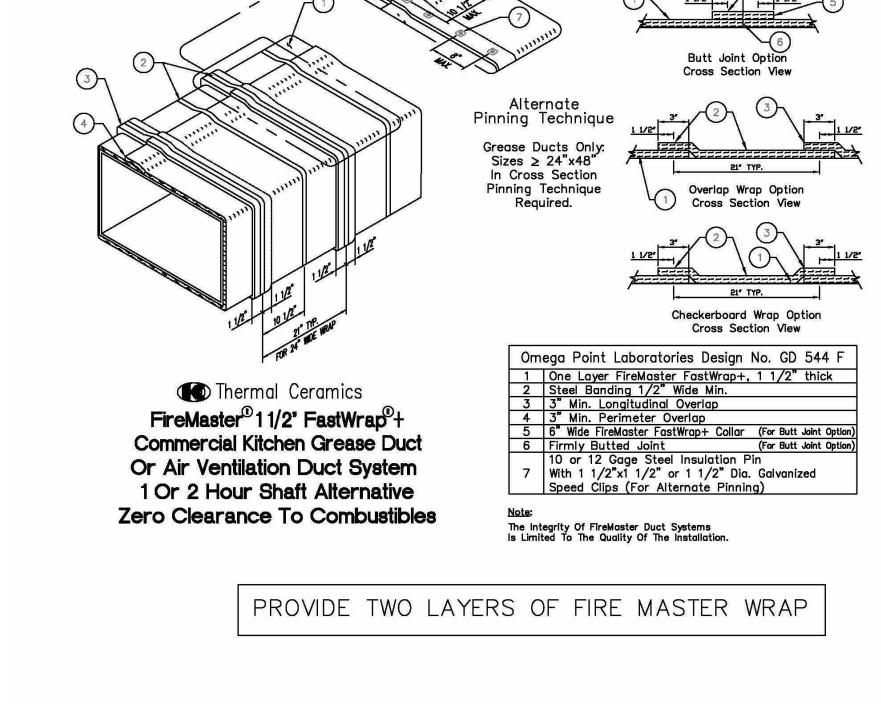
2





4 FIRE MASTER DETAIL 1/8" = 1'-0"

5



(1) GREASE DUCT DETAIL 1/8" = 1'-0"

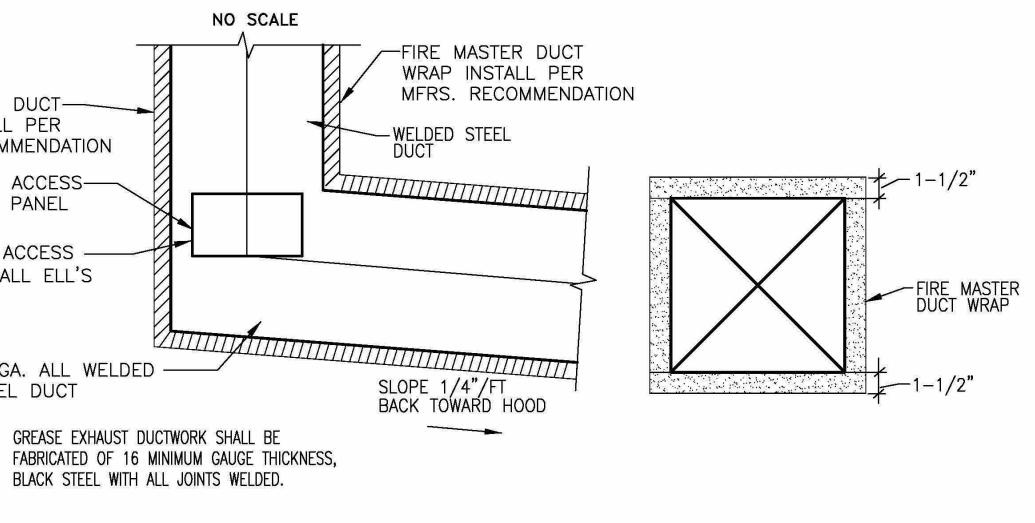
FIRE MASTER DUCT-WRAP INSTALL PER MFRS. RECOMMENDATION ACCESS-PANEL

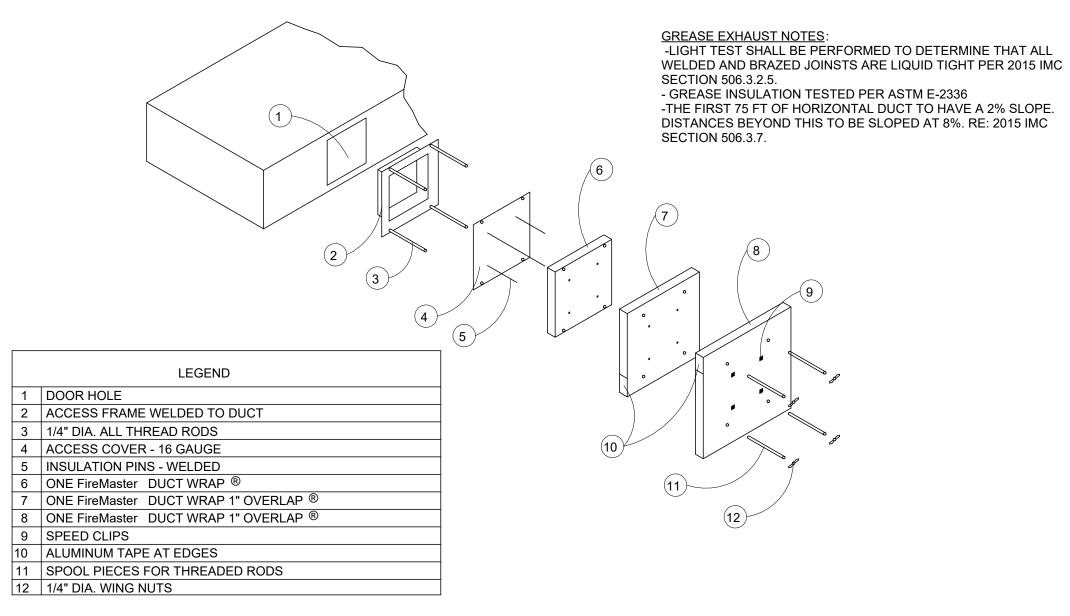
CLEANOUT ACCESS PANEL AT ALL ELL'S

3

16 GA. ALL WELDED — STEEL DUCT

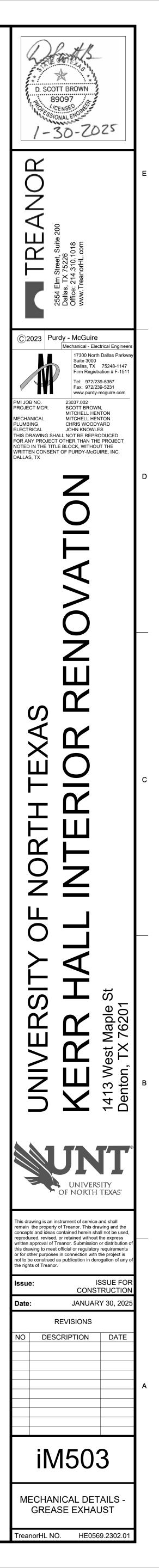
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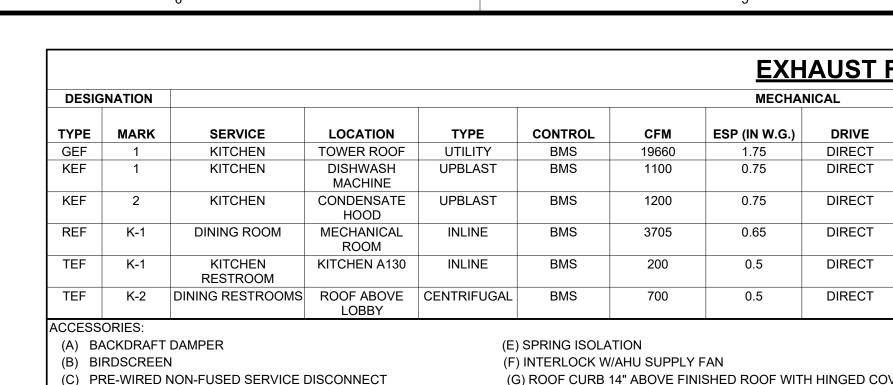




GREASE DUCT ACCESS DOOR ³NOT TO SCALE

2





(C) PRE-WIRED NON-FUSED SERVICE DISCONNECT (D) PRE-WIRED NON-FUSED SERVICE DISCONNECT (NEMA 3R)

(J) GREASE EXHAUST FAN SHALL BE UL-762 RATED FOR KITCHEN VENTILATION (K) TEFC MOTOR ENCLOSURE FOR PROTECTION FROM GREASE-LADEN AIRTREAM (G) ROOF CURB 14" ABOVE FINISHED ROOF WITH HINGED COVER (L) GREASE CAPTURE TROUGH WITH REMOVABLE LID (H) INSULATED AND VENTED ROOF CURB 14" ABOVE FINISHED ROOF W/HINGED COVER (M)WALL MOOUNTING BRACKETS

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 - TCLOCK - TIMECLOCK FOR OPERATION (PROVIDED BY DIV. 23 AND INSTALLED BY DIV. 26)

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) PROVIDE GEF-1 WITH SPRING ISOLATION RAILS.

DESIG	NATION				HEATIN	G WATER	COIL PER	FORMAN	CE			BASIS OF DES	IGN
TYPE	MARK	DESIGN COOLING CFM	MIN COOLING	HEATING CFM	MIN. BTUH	EWT (°F)	LWT (°F)	GPM	EAT (°F)	LAT (°F)	INLET	MANUFACTURER	MODEL
VRH	K-1	960	195	675	29,159	180	160	3	55 °F	95	10"	TITUS	DESV
VRH	K-2	840	170	590	25,489	180	160	3	55 °F	95	10"	TITUS	DESV
VRH	K-3	750	150	525	22,679	180	160	2.5	55 °F	95	10"	TITUS	DESV
VRH	K-4	750	150	525	22,679	180	160	2.5	55 °F	95	10"	TITUS	DESV
VRH	K-5	800	160	560	24,199	180	160	2.5	55 °F	95	10"	TITUS	DESV
VRH	K-6	1080	220	760	32,839	180	160	3.5	55 °F	95	12"	TITUS	DESV
VRH	K-7	1020	205	715	30,889	180	160	3.5	55 °F	95	12"	TITUS	DESV
VRH	K-8	500	100	350	15,119	180	160	2	55 °F	95	8"	TITUS	DESV
VRH	K-9	750	150	525	22,679	180	160	2.5	55 °F	95	10"	TITUS	DESV
VRH	K-10	900	180	630	27,219	180	160	3	55 °F	95	10"	TITUS	DESV
VRH	K-11	800	160	560	24,199	180	160	2.5	55 °F	95	10"	TITUS	DESV
VRH	K-12	900	180	630	27,219	180	160	3	55 °F	95	10"	TITUS	DESV
VRH	K-13	1250	250	875	37,798	180	160	4	55 °F	95	12"	TITUS	DESV
VRH	K-14	300	60	210	9,080	180	160	1	55 °F	95	8"	TITUS	DESV
VRH	K-15	900	180	630	27,219	180	160	3	55 °F	95	10"	TITUS	DESV

3) ALL TERMINAL UNITS SHALL BE PROVIDED WITH SINGLE ROW COILS, UNLESS TWO ROWS ARE NEEDED TO ACHIEVE DESIRED BIUS.

4) BOXES SHALL BE DDC. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. 5) APPROVED MANUFACTURERS: JCI, PRICE, KRUEGER, GREENHECK, NAILOR, TITUS, & TRANE.

6) ALL SUBSTITUTIONS SHALL BE APPROVED, IN WRITING, PRIOR TO BID. 7) ALL TERMINAL UNIT COILS SHALL BE SELECTED WITH A PRESSURE DROP OF 1.0' (FT H2O) OR LESS.

											C	HILLE	D W
DESIG	<b>NATION</b>												
					SUPPL	Y FAN					CC	OLIN	g co
				ESP		TOTAL	HP OF				EA	T °F	LA
TYPE	MARK	SERVES	CFM	(IN W.G.)	FAN TYPE	NUMBER OF FANS	EACH FAN	OA CFM	TOTAL MBH	SENSIBLE MBH	DB	WB	DB
FCU	K1-1	KITCHEN RESTROOM	400	0.35	ECM	1	0.5	65	12	10	79	64	55
		RESTROOM											-

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 PROVIOEO 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.

DESIG	NATION							ИЕСН	ANIC	AL							
			SUPPLY FAN				COOL	ING C	OIL					REH	EAT C	OIL	
				MIN	MAX	EA	T °F	LA	Γ°F								
TYPE	MARK	SERVES	CFM	OA CFM	OA CFM	DB	WB	DB	WB	GPM	EWT (°F)	LWT (°F)	°F DB	LAT °F DB	GPM	EWT (°F)	LWT (°F)
E-AHU	A1-1	DINING ROOM	12500	3750	7250	102	75	55	54	132.6	45	57	40	55	10.1	180	140
E-AHU	A1-3	KITCHEN	14000	2000	7250	102	75	55	54	136.8	45	57	35	95	28.2	180	140
E-AHU	A1-5	HOOD MAKE-UP AIR	7952	7952	7952	102	75	65	63	58.5	45	57	40	65	12.6	180	140

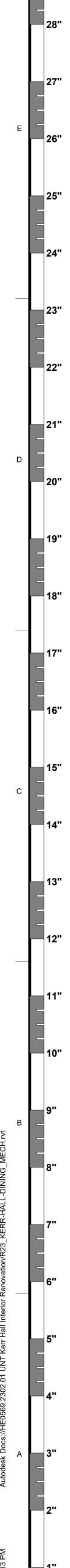
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2. Refer to controls sheets for additional components that are to be provided or replaced for these units.

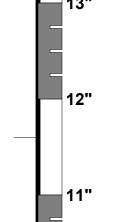
REHEAT COIL	
LAT °F EW DB GPM (°F	-
40 11.8 180	) 140
LAT °F E DB GPM ('	°F

1. MINIMUM TWO (2) ROW COIL. 2. DUCT MOUNTED FIN AND TUBE CONSTRUCTION.

6



NOTES:



F	AN SCHEDU	JLE						
			BASIS OF DES	IGN		ELECTR		
	ACCESSORIES (SEE BELOW)	WEIGHT (LBS)	MANUFACTURER	MODEL	HP	RPM	VOLT	РН
	E,J,K,L,N,O	1017	COOK	270CA-SWSI	20	1734	460	3
	D,K,M,O	82	COOK	150VH17D	1	1479	460	3
	D,K,M,O	82	COOK	150VH17D	1	1479	460	3
	A,E,O	108	СООК	165SQN17D	2	1628	460	3
	A,C,E, P	25	СООК	GN-422	0.1	1345	115	1
	A,B,D,G,P	15	COOK	101ACED (EC)	0.17	1721	208	1

(O) VARIABLE FREQUENCY DRIVE (P) EC MOTOR (Q) FAN SPEED CONTROL

(N) HINGED ACCESS PANEL

- SWITCH- MOTOR RATED SWITCH BY DIV. 26 - CONT. - CONTINUOUS OPERATION

- HOA - COMBINATION STARTER WITH HOA AND PILOT LIGHT IN COVER FURNISHED BY MANUFACTURER - BMS/DVS - BUILDING AUTOMATION SYSTEM / EXHAUST HOOD DEMAND CONTROL VENTILATION SYSTEM

С	HILLE	D W	ATER		OIL UN	IT SCI	HEDULE	E									
			ľ		NICAL												
C	OLING	g CO	IL					PR	EHEAT				FINAL F	ILTER	BASIS OF	DESIGN	
Α	T °F	LA	T °F								EW						ACCESSO
				_	EWT	LWT	-		LAT		Т	LWT			MANUFACT		RIES (SEE
5	WB	DB	WB	GPM	(°F)	(°F)	L MBH	°F DB	°F DB	GPM	(°F)	(°F)	DEPTH	MERV	URER	MODEL	BELOW)
	64	55	54	2	45	57	10	61	85	1	180	160	2	8	PRICE	FCGH	SEE BELOW

4

			GRILI	_ES-RI	EGIST	ERS-D	OIFFUSE	RS		
DESIG.	DUTY	TYPE	MOUNTING LOCATION	MATERIAL	VOLUME CONTROL	FINISH	AIR PATTERN CONTROL	METHOD OF SUPPORT	EQUAL TO MANUFACTUER AND MODEL NO.	REMARKS
Α	SUPPLY	SQ. PLAQUE	LAY-IN	STEEL	NO	SEE NOTE 8	YES	T-BAR	TITUS OMNI - 24"X24" FACE	SEE NOTE 1, 11
A1	SUPPLY	PERFORATED	LAY-IN	STAINLESS	NO	SEE NOTE 8	NO	T-BAR	CAPTIVE AIRE DI-PSP	SEE NOTE 1, 11
A2	SUPPLY	SQ. PLAQUE	LAY-IN	STEEL	NO	SEE NOTE 8	YES	T-BAR	TITUS OMNI - 12"X12" FACE	SEE NOTE 1, 11
В	RETURN	PERFORATED	LAY-IN	STEEL	NO	SEE NOTE 8	NO	T-BAR	TITUS PAR - 24"X24" FACE	SEE NOTE 11
B1	RETURN	PERFORATED	LAY-IN	ALUMINUM	NO	SEE NOTE 8	NO	T-BAR	TITUS PAR-AA	SEE NOTE 11
B2	RETURN	PERFORATED	LAY-IN	STEEL	NO	SEE NOTE 8	NO	T-BAR	TITUS PAR - 12"X12" FACE	SEE NOTE 11
С	SUPPLY	GRILLE	SIDEWALL	STEEL	NO	SEE NOTE 8	YES	SURFACE	TITUS 272RL	SEE NOTE 2
D	RETURN	GRILLE	SIDEWALL	STEEL	NO	SEE NOTE 8	YES	DUCT	TITUS 25RL	SEE NOTE 2
E	EXHAUST	GRILLE	SIDEWALL	STEEL	NO	SEE NOTE 8	YES	SURFACE	TITUS 25RL	SEE NOTE 2
E1	EXHAUST	PERFORATED	LAY-IN	STEEL	NO	SEE NOTE 8	YES	SURFACE	TITUS PAR - 24"X24" FACE	SEE NOTE 11
F2	FXHAUST	PERFORATED	I AY-IN	STEEL	NO	SEE	YES	SURFACE	TITUS PAR - 12"X12" FACE	SEE NOTE 11

NOTE 8

SEE

SEE

NOTE 8

NOTE 8

YES

YES

YES

SURFACE TITUS PAR - 12"X12" FACE SEE NOTE 11

SEE NOTE 1,5

SEE NOTE 1,5

1

SURFACE | TITUS FL-HT

SURFACE TITUS FL-HT

### NOTES:

E2 EXHAUST

F SUPPLY

F1 SUPPLY

1) NECK SIZES AS FOLLOWS:

DESIGNATION "A"		DESIGNATION	"F"	
<u>CFM RANGE</u> 000 - 250 251 - 400 401 - 550 551 - 700	<u>NECK SIZE</u> 8"Ø 10"Ø 12"Ø 14"Ø	<u>CFM RANGE</u> 000 - 100 101 - 150 151 - 210 211 - 255 256 - 350	<u>NECK SIZE / MODEL</u> 6"Ø / FL-10 8"Ø / FL-10 8"Ø / FL-20 10"Ø / FL-30 12"Ø / FL-30	LENGTI 4'-0" 4'-0" 4'-0" 4'-0"

2

LINEAR SLOT GYP BD CLG ALUMINUM NO

LINEAR SLOT GYP BD CLG ALUMINUM NO

LAY-IN STEEL NO

2) SIZE PER PLANS

ELECTRICAL

(LBS) VOLT PH

75 208

WEIGHT

3

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

4) FOR TYPE A1 DIFFUSERS, PROVIDE WITH A 12" NECK.

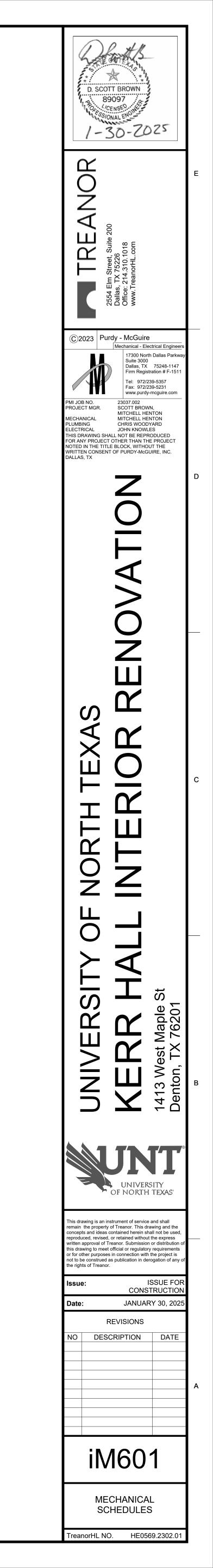
PERFORATED

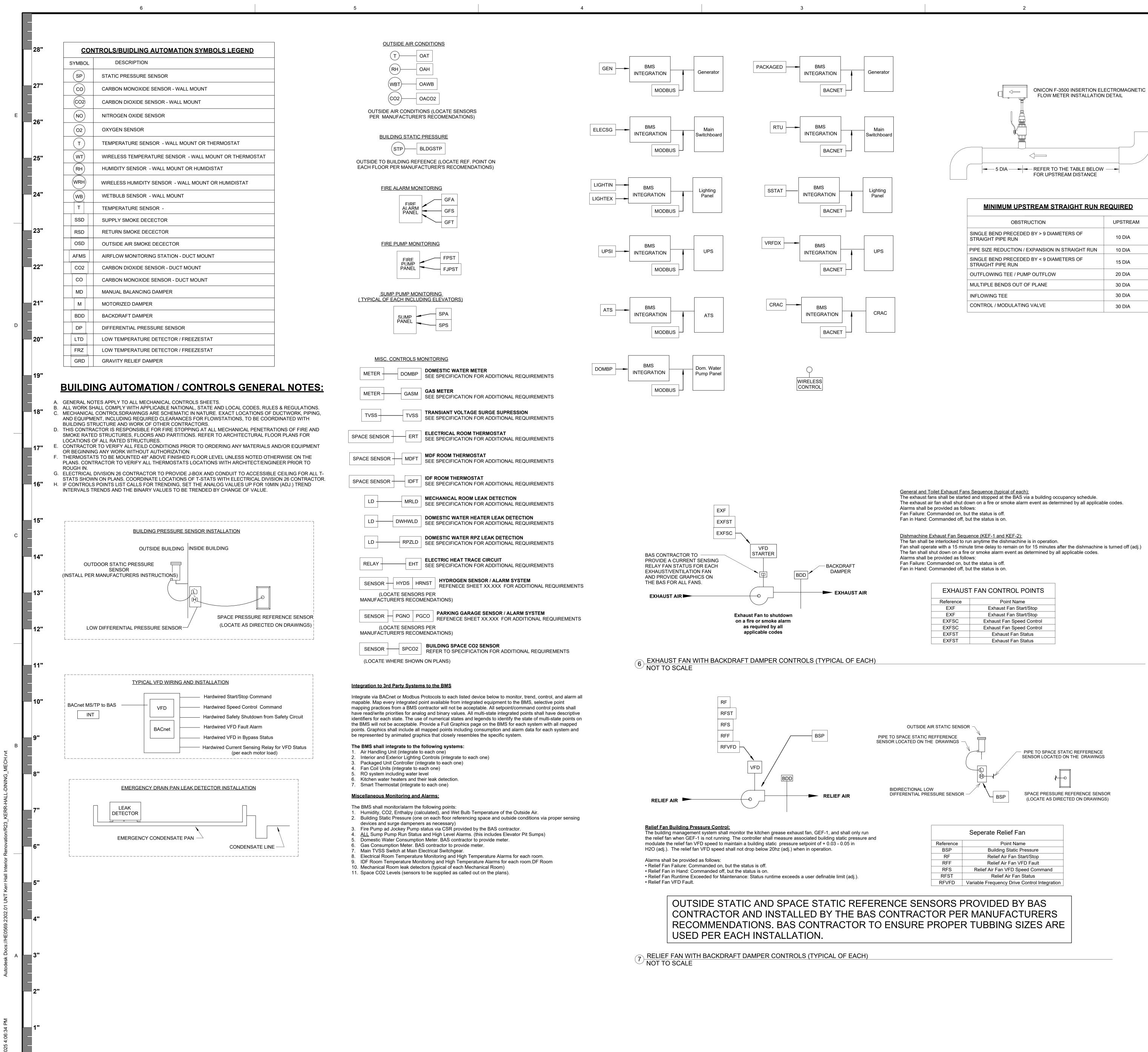
5) PROVIDE WITH TRIM KIT FOR GYP-BOARD CEILINGS.

6) 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 SHEILD. DIFFUSER TO HAVE A CONTINUOUS LOOK. CONFIRM BORDER TYPE AND FINISH WITH THE ARCHITECT AND COORDINATE WITH GENERAL CONTRACTOR TO MUDD AND PAINT BORDER, IF REQUIRED.

7) FOR TYPE F DIFFUSER, PROVIDE NUMBER OF 5' LONG SUPPLY AIR PLENUMS AS SHOWN WITH NECK FOR EACH PLENUM. SLOT WIDTH TO BE 2.5 INCHES WIDE AND PLENUMS ARE TO BE PROVIDED WITH A 10" NECK. SUPPLY AIR PLENUMS TO BE FABRICATED BY TITUS. LEAVE UNUSED PORTION OPEN FOR RETURN AIR AND PROVIDE A LIGHT SHEILD. DIFFUSER TO HAVE A CONTINUOUS LOOK. CONFIRM BORDER TYPE AND FINISH WITH THE ARCHITECT AND COORDINATE WITH GENERAL CONTRACTOR TO MUDD AND PAINT BORDER, IF REQUIRED.

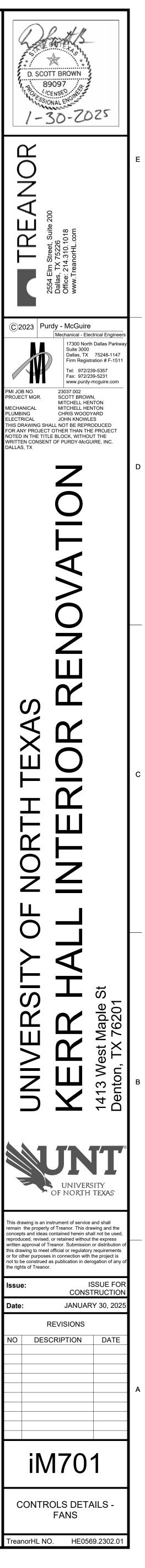
8) COORDINATE FINISH WITH ARCHITECT.

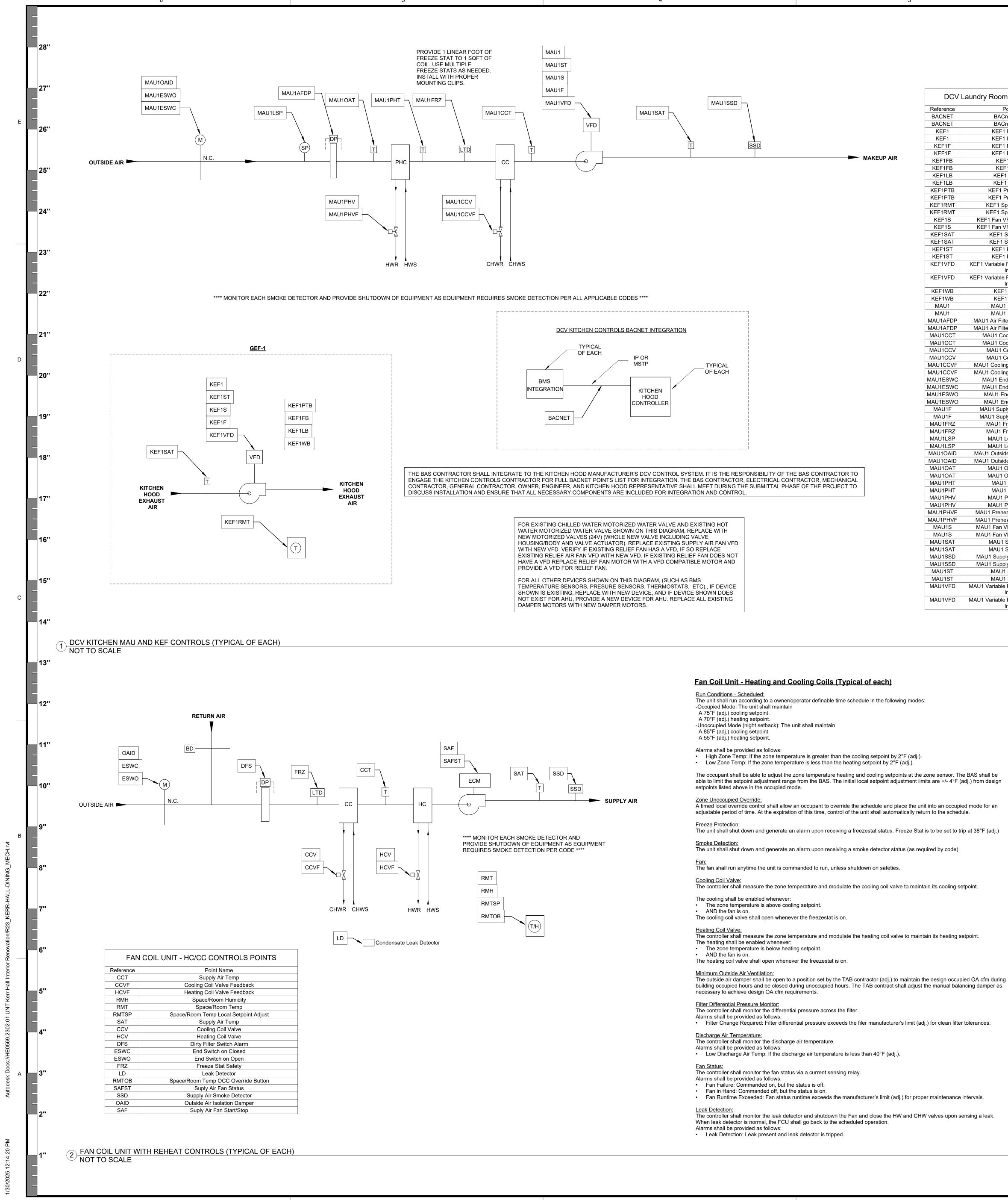




EXHAUS ⁻	T FAN CONTROL POINTS
Reference	Point Name
EXF	Exhaust Fan Start/Stop
EXF	Exhaust Fan Start/Stop
EXFSC	Exhaust Fan Speed Control
EXFSC	Exhaust Fan Speed Control
EXFST	Exhaust Fan Status
EXFST	Exhaust Fan Status

un re and		Seperate Relief Fan
	Reference	Point Name
	BSP	Building Static Pressure
	RF	Relief Air Fan Start/Stop
	RFF	Relief Air Fan VFD Fault
	RFS	Relief Air Fan VFD Speed Comm
	RFST	Relief Air Fan Status
	RFVFD	Variable Frequency Drive Control Inte
	<u> </u>	·





The occupant shall be able to adjust the zone temperature heating and cooling setpoints at the zone sensor. The BAS shall be able to limit the setpoint adjustment range from the BAS. The initial local setpoint adjustment limits are +/- 4°F (adj.) from design

# The controller shall measure the zone temperature and modulate the cooling coil valve to maintain its cooling setpoint.

MAU1 Fan VFD Fault MAU1 Fan VFD Fault MAU1 Variable Frequency Drive Control Integration MAU1 Variable Frequency Drive Control

Integration

### MAKE UP AIR UNIT CONTROL PERFORMED BY THE BAS CONTRACTOR AS FOLLOWS (CONTROLS FOR E-AHU-1-A5)

ZONE OCCUPANCY: THE UNIT WILL RUN WHENEVER THE GREASE EXHAUST FAN, GEF-K1, TURNS ON. BOTH FANS ARE TO BE CONNECTED VIA MODBUS CONNECTION AND BE INTERLOCKED. SYSTEM TO BE MONITORED VIA BMS SYSTEM ON SITE. AHU FAN TO PROVIDE THE SAME CFM AS THE EXHAUST FAN TO MAINTAIN A NEUTRAL PRESSURE IN THE LAUNDRY ROOM.

SUPPLY AIR SMOKE DETECTION: THE MAU SHALL SHUT DOWN AND THE BAS GENERATE AN ALARM ON THE BAS UPON RECEIVING A SUPPLY AIR SMOKE DETECTOR STATUS. **STATIC SAFETY:** 

THE MAU SHALL SHUT DOWN ON A LOW OR HIGH STATIC SAFTEY TRIP AND THE BAS GENERATE AN ALARM ON THE BAS. THE LOW STATIC SAFETY SHALL BE INITIALLY SET AT 2.0"W.C. (ADJ.) AND THE LOW STATIC SAFETY SHALL BE INITIALLY SET AT 2.0"W.C. (ADJ.). THE TAB CONTRACTOR SHALL FINAL ADJUST STATIC SAFETIES TO ADEQUATLEY PROTECT THE MAU AND ASSOCIATED DUCTWORK.

FREEZE PROTECTION: THE MAKE UP AIR UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON A FREEZESTAT TRIPPING. FREEZE STAT IS TO BE SET TO TRIP AT 38°F (ADJ.). IF THE BUILDING HEATING WATER PUMPS ARE OFF, THEY MUST BE INITIATED ON AND CONTROL SYSTEMS PRESSURES AS NORMAL WHEN A FREEZE STAT IS TRIPPED.

### FILTER DIFFERENTIAL PRESSURE MONITOR:

THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE AIR FILTER. ALARMS SHALL BE PROVIDED AS FOLLOWS: FILTER CHANGE REQUIRED - FILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.) AS PER THE FILTER

### SUPPLY AIR TEMPERATURE:

SUPPLY FAN VFD FAULT

MANUFACTURER RECOMMENDATIONS.

THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE. ALARMS SHALL BE PROVIDED AS FOLLOWS:

HIGH SUPPLY AIR TEMP - IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 85°F (ADJ.). LOW SUPPLY AIR TEMP - IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F (ADJ.)

SUPPLY AIR DUCT STATIC PRESSURE CONTROL: THE CONTROLLER SHALL MEASURE DUCT STATIC PRESSURE AND MODULATE THE SUPPLY FAN VFD SPEED TO MAINTAIN A DUCT STATIC PRESSURE SETPOINT. THE SPEED SHALL NOT DROP BELOW 33% (ADJ.).

• THE INITIAL DUCT STATIC PRESSURE SETPOINT SHALL BE 1.0IN H2O (ADJ.). ALARMS SHALL BE PROVIDED AS FOLLOWS:

• HIGH SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT. • LOW SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) LESS THAN SETPOINT.

### CONTROL MODE - SUPPLY AIR TEMPERATURE SETPOINTS AND MODES

THE BAS SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND SHALL MAINTAIN A SUPPLY AIR TEMPERATURE SETPOINT BASED ON THE MAU ENTERING OUTSIDE AIR TEMPERATURE. THE MAU CONTROL MODES SHALL BE AS FOLLOWS: • SUPPLY AIR TEMPERATURE COOLING SETPOINT AND COOLING MODE WHEN THE OUTSIDE AIR TEMPERATURE IS GREATER THAN 65°F (ADJ.) THE SUPPLY TEMPERATURE SETPOINT SHALL BE IS 65°F (ADJ.). • SUPPLY AIR TEMPERATURE HEATING SETPOINT AND HEATING MODE WHEN THE OUTSIDE AIR TEMPERATURE IS LESS THAN 60°F (ADJ.) THE SUPPLY TEMPERATURE SETPOINT SHALL BE 60°F (ADJ.). • DEADBAND MODE - THERE SHALL BE A 5°F DEADBAND BETWEEN HEATING AND COOLING AT A MINIMUM. THIS SHALL BE THE DEADBAND

WHEN THE OUTSIDE AIR IS BELOW 65°F AND ABOVE 60°F WHEN NO COOLING OR HEATING IS OPERABLE. THE TAB CONTRACTOR SHALL CONFIRM PERFORMANCE OF THE MAU AND VALIDATE PROPER CONTROL WITH ALL DETERMINED SETPOINT'S. THE BAS CONTRACTOR SHALL SET THE COOLING AND HEATING SUPPLY AIR SETPOINT LIMITS ACCORDINGLY AND FINAL ADJUST PER THE

NEEDS OF THE KITCHEN CONTROLS NEEDS DURING START UP AND COMMISSIONING. COOLING MODE - COOLING COIL VALVE CONTROL THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND MODULATE THE COOLING COIL VALVE TO MAINTAIN ITS SUPPLY AIR COOLING TEMPERATURE SETPOINT. THE OWNER SHALL BE ABLE TO SELECT WHICH MODE THEY WOULD LIKE THE ENERGY VALVE TO OPERATE VIA THE BAS GRAPHICS. BEING FLOW CONTROL MODE. POWER CONTROL MODE. OR POSITON MODE. THE DEFAULT CONTROL MODE FOR THE BELIMO ENERGY VALVE SHALL BE PRESSURE INDEPENDENT FLOW CONTROL WITH DELTA T MANAGEMENT ENABLED. THE TAB, CX, AND BAS CONTRACTOR SHALL VERIFY THE ENERGY VALVE IS PROPERLY SET UP AND PERFORMING TO THE PRESSURE INDEPENDENT FLOW CONTROL WITH DELTA T MANAGEMENT ENABLED.

### THE COOLING SHALL BE ENABLED WHENEVER: · THE SUPPLY TEMPERATURE IS ABOVE SUPPLY AIR COOLING TEMPERATURE SETPOINT.

AND THE FAN STATUS IS ON. · AND THE HEATING COIL VALVE IS CLOSED. THE COOLING COIL VALVE SHALL OPEN 100% WHENEVER THE FREEZESTAT IS ON, AND REMAIN 100% UNTIL THE ASSOCIATED FREEZE STAT ALARM IS CLEARED.

HEATING MODE - HEATING COIL CONTROL THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND MODULATE THE HEATING COIL VALVE TO MAINTAIN ITS SUPPLY AIR HEATING TEMPERATURE SETPOINT.

THE HEATING COIL SHALL BE ENABLED WHENEVER: • THE SUPPLY AIR TEMPERATURE IS BELOW SUPPLY AIR HEATING TEMPERATURE SETPOINT. · AND THE FAN STATUS IS ON. · AND THE COOLING COIL VALVE IS CLOSED.

THE HEATING COIL VALVE SHALL OPEN 100% WHENEVER THE FREEZESTAT IS ON, AND REMAIN 100% UNTIL THE ASSOCIATED FREEZE STAT ALARM IS CLEARED.

**NOTE THAT MAKEUP AIR FOR THE ACTION STATION KITCHEN HOODS IS SUPPLIED AS TRANSFER AIR FROM THE DINING AREA AND THERE IS NO MAKEUP AIR DUCTED TO THESE HOODS

3

-30-2023  $\overline{\phantom{a}}$  $\triangleleft$ ш  $\mathbf{C}$ C)2023 | Purdy - McGuire Mechanical - Electrical Engine 17300 North Dallas Parky Suite 3000 Dallas, TX 75248-114 Firm Registration # F-151 el: 972/239-5357 ax: 972/239-5231 www.purdy-mcguire.com JOB NO SCOTT BROWN, PROJECT MGR. MITCHELL HENTON IANICAL MITCHELL HENTON CHRIS WOODYARD ABING ECTRICAL IS DRAWING SHALL NOT BE REPRODUCED OR ANY PROJECT OTHER THAN THE PROJEC TED IN THE TITLE BLOCK, WITHOUT THE TTEN CONSENT OF PURDY-McGUIRE, INC ALLAS, TX  $\sim$ U. Υ Ζ  $\mathcal{O}$  $\overline{}$ UNIVERSIT OF NORTH TEXAS is drawing is an instrument of service and shall remain the property of Treanor. This drawing and the ts and ideas contained herein shall not be use produced, revised, or retained without the express ritten approval of Treanor. Submission or distribut his drawing to meet official or regulatory requireme or for other purposes in connection with the project is not to be construed as publication in derogation of any the rights of Treanor. ISSUE FOR CONSTRUCTION JANUARY 30, 202 REVISIONS DESCRIPTION DATE iM702 CONTROLS DETAILS MAU & FCU

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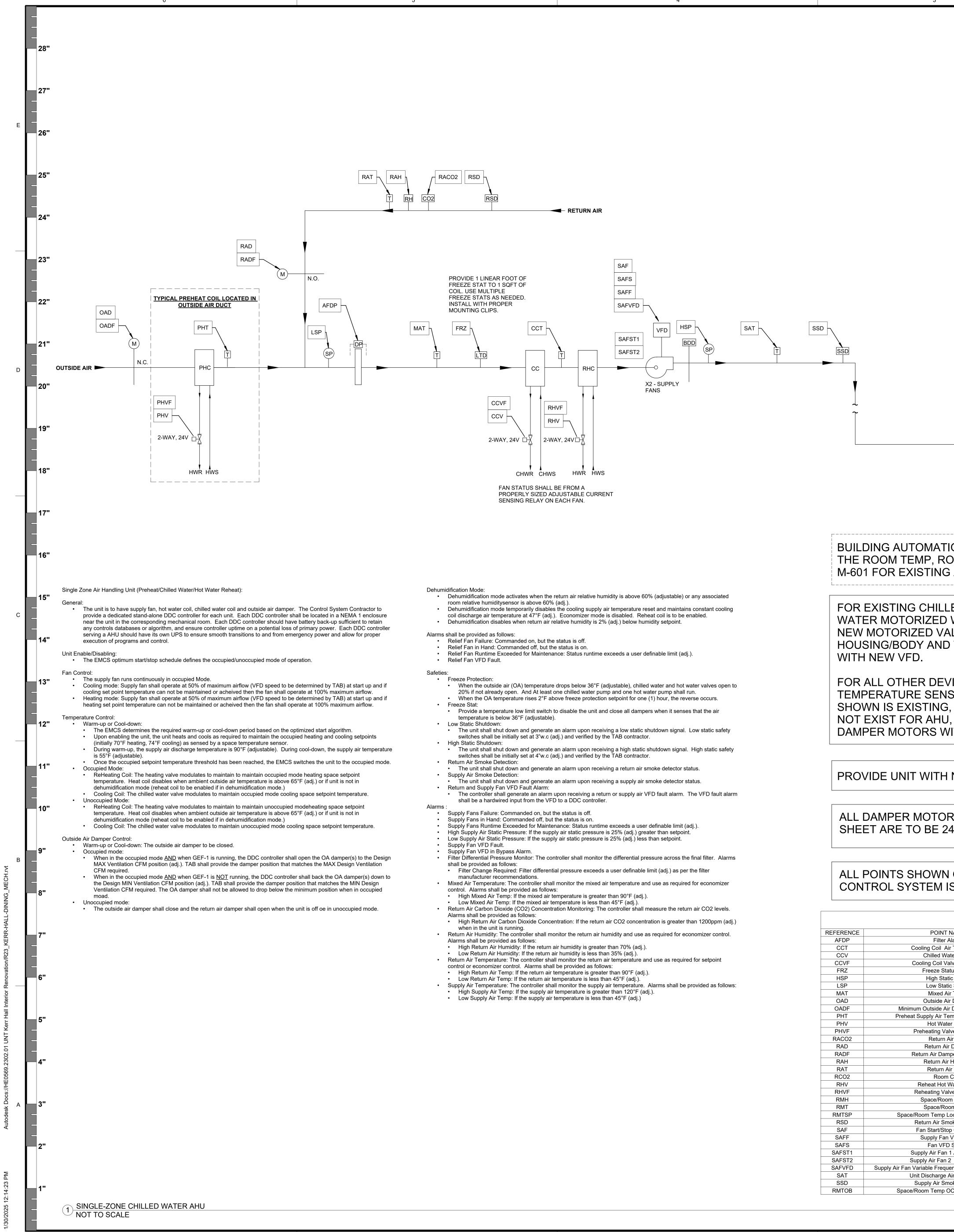
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X

D. SCOTT BROWN

89097

CENSED



# BUILDING AUTOMATION CONTRACTOR TO INSTALL AND WIRE THE ROOM TEMP, ROOM HUMIDITY, AND RETURN AIR CO2 SENSOR. SEE DRAWING M-601 FOR EXISTING AHU SCHEDULE FOR ADDITIONAL INFORMATION.

FOR EXISTING CHILLED WATER MOTORIZED WATER VALVE AND EXISTING HOT WATER MOTORIZED WATER VALVE SHOWN ON THIS DIAGRAM, REPLACE WITH NEW MOTORIZED VALVES (24V) (WHOLE NEW VALVE INCLUDING VALVE HOUSING/BODY AND VALVE ACTUATOR). REPLACE EXISTING SUPPLY AIR FAN VFD

FOR ALL OTHER DEVICES SHOWN ON THIS DIAGRAM, (SUCH AS BMS TEMPERATURE SENSORS, PRESURE SENSORS, THERMOSTATS, ETC)., IF DEVICE SHOWN IS EXISTING, REPLACE WITH NEW DEVICE, AND IF DEVICE SHOWN DOES NOT EXIST FOR AHU, PROVIDE A NEW DEVICE FOR AHU. REPLACE ALL EXISTING DAMPER MOTORS WITH NEW DAMPER MOTORS.

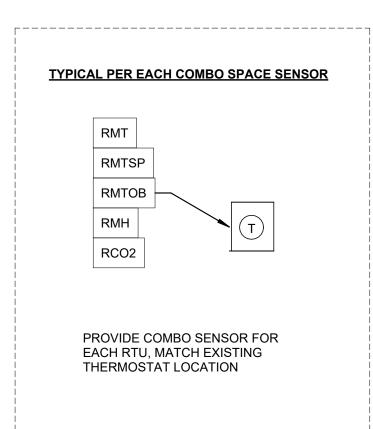
PROVIDE UNIT WITH NEW MODULATING OUTSIDE AIR DAMPER.

3

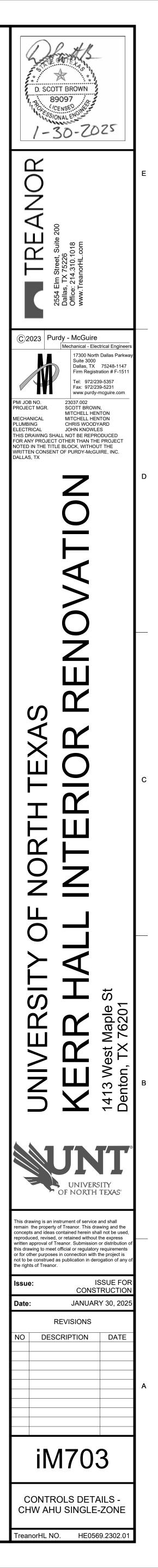
ALL DAMPER MOTORS AND ALL MOTORIZED WATER VALVES SHOWN ON THIS SHEET ARE TO BE 24 V.

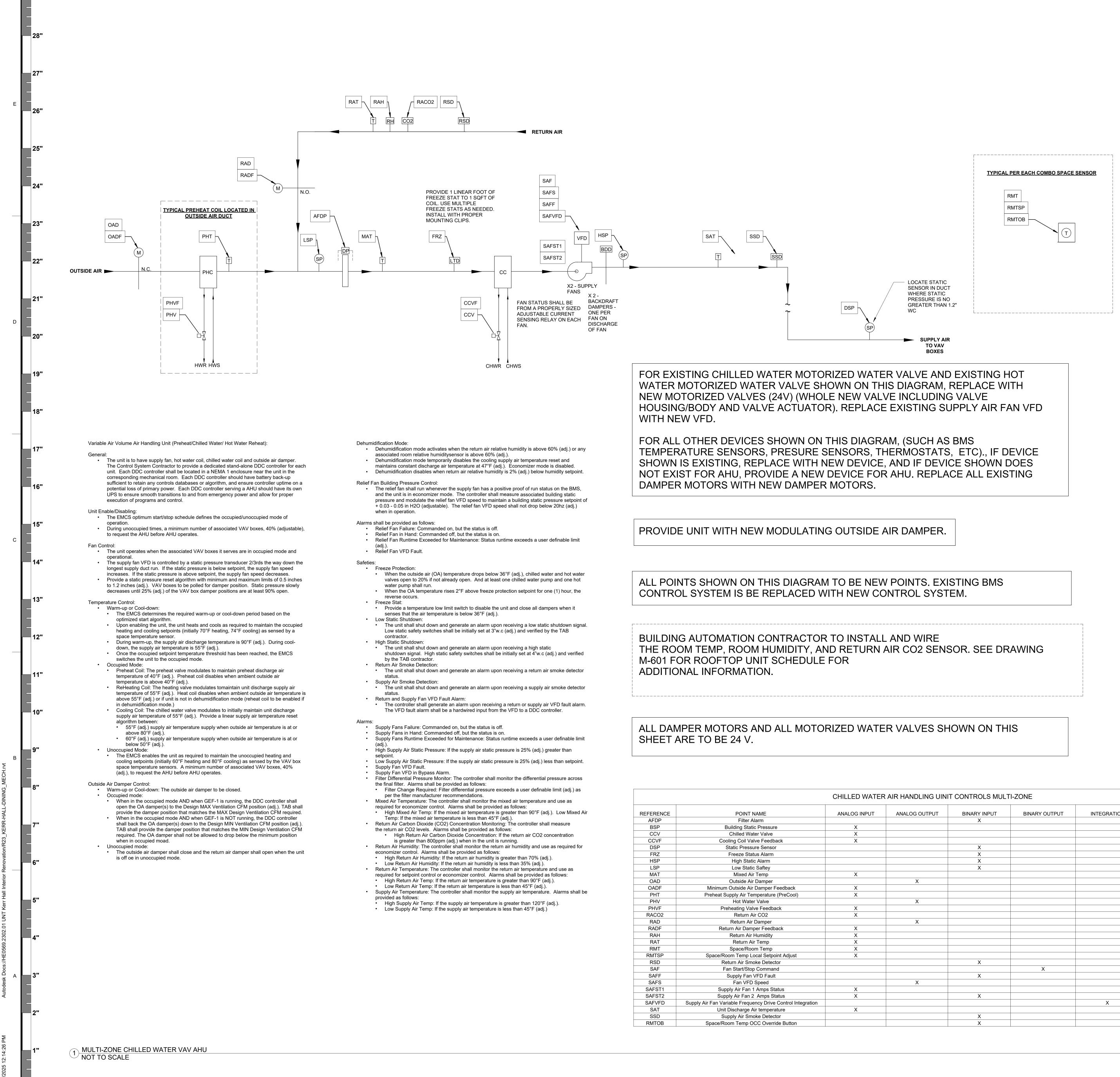
### ALL POINTS SHOWN ON THIS DIAGRAM TO BE NEW POINTS. EXISTING BMS CONTROL SYSTEM IS BE REPLACED WITH NEW CONTROL SYSTEM.

	CHIL	LED WATER AI	R HANDLING UIN	IT CONTROLS S	SINGLE ZONE			
REFERENCE	POINT NAME	ANALOG INPUT	ANALOG OUTPUT	BINARY INPUT	BINARY OUTPUT	INTEGRATION	TREND ON BAS	SHOW ON BAS GRAPHIC
AFDP	Filter Alarm			Х			Х	X
CCT	Cooling Coil Air Temperature	Х					Х	X
CCV	Chilled Water Valve	Х					Х	X
CCVF	Cooling Coil Valve Feedback	Х					Х	X
FRZ	Freeze Status Alarm			Х			Х	X
HSP	High Static Alarm			Х			Х	X
LSP	Low Static Saftey			Х			Х	X
MAT	Mixed Air Temp	Х					Х	X
OAD	Outside Air Damper		X				Х	X
OADF	Minimum Outside Air Damper Feedback	Х					Х	X
PHT	Preheat Supply Air Temperature (PreCool)	Х					Х	X
PHV	Hot Water Valve		X				Х	X
PHVF	Preheating Valve Feedback	Х					Х	X
RACO2	Return Air CO2	Х					Х	X
RAD	Return Air Damper		X				Х	X
RADF	Return Air Damper Feedback	Х					Х	X
RAH	Return Air Humidity	Х					Х	X
RAT	Return Air Temp	Х					Х	X
RCO2	Room CO2	Х					Х	X
RHV	Reheat Hot Water Valve		X				Х	X
RHVF	Reheating Valve Feedback	X					Х	X
RMH	Space/Room humidity	Х					Х	X
RMT	Space/Room Temp	X					Х	X
RMTSP	Space/Room Temp Local Setpoint Adjust	X					Х	X
RSD	Return Air Smoke Detector			Х			Х	X
SAF	Fan Start/Stop Command				Х		Х	X
SAFF	Supply Fan VFD Fault			Х			X	X
SAFS	Fan VFD Speed		X				Х	X
SAFST1	Supply Air Fan 1 Amps Status	X					Х	Х
SAFST2	Supply Air Fan 2 Amps Status	X		Х			Х	Х
SAFVFD	Supply Air Fan Variable Frequency Drive Control Integration					Х	Х	X
SAT	Unit Discharge Air temperature	X					Х	Х
SSD	Supply Air Smoke Detector			Х			Х	X
RMTOB	Space/Room Temp OCC Override Button			Х			Х	X

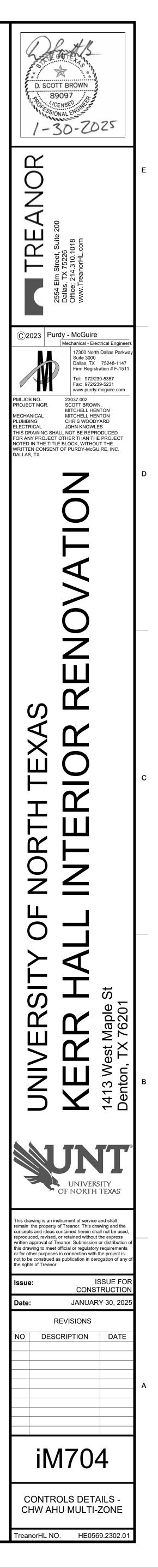


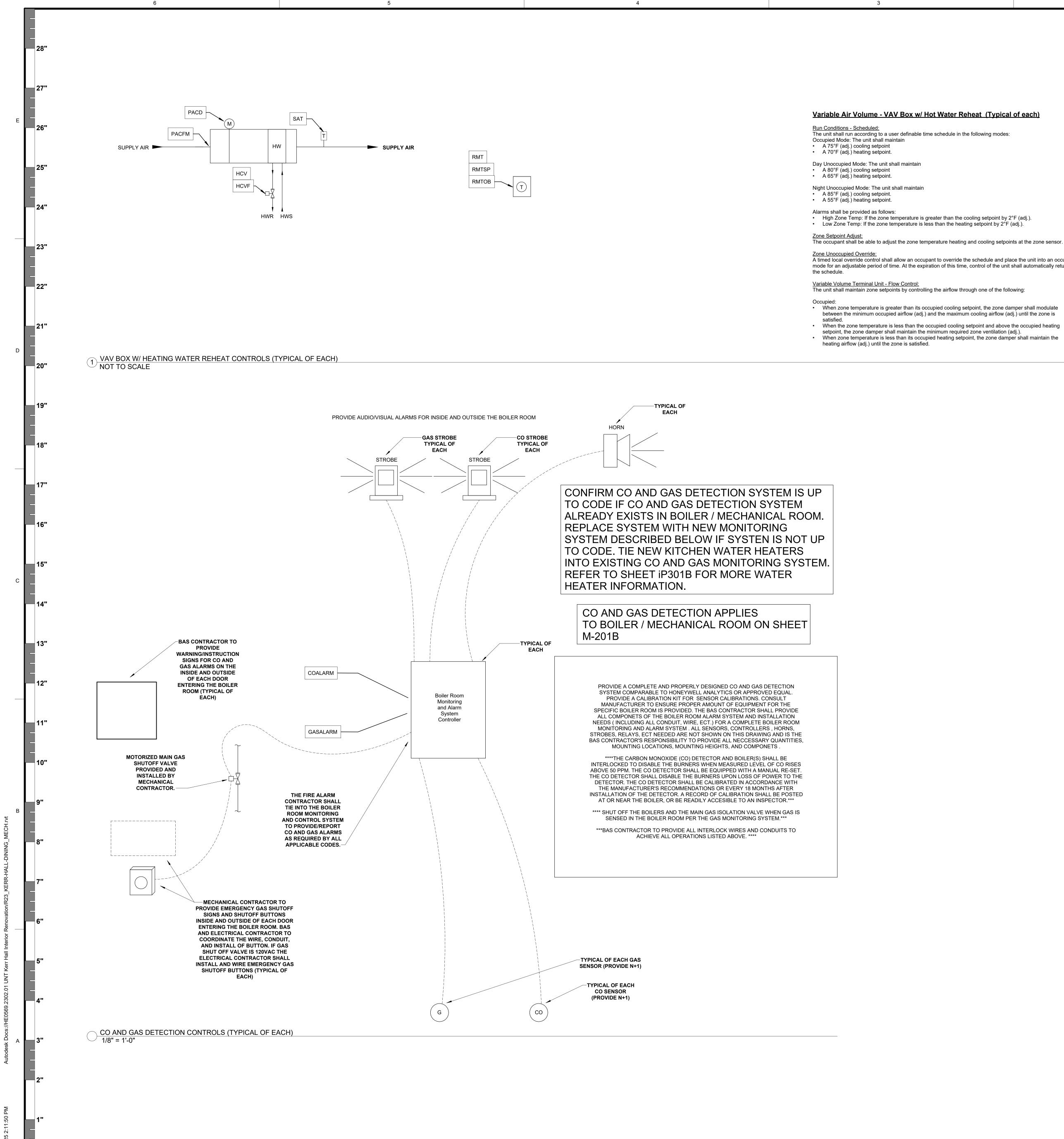
### SUPPLY AIR TO SPACE





NALOG OUTPUT	BINARY INPUT	BINARY OUTPUT	INTEGRATION	TREND ON BAS	SHOW ON BAS GRAPHIC
	X			X	X
				X	X
				X	X
				Х	Х
	Х			X	Х
	Х			X	Х
	Х			X	Х
	Х			Х	Х
				Х	Х
Х				Х	Х
				Х	Х
				Х	Х
Х				X	Х
				X	Х
				X	Х
Х				X	Х
				X	Х
				X	Х
				X	Х
				Х	Х
				Х	Х
	Х			Х	Х
		X		Х	Х
	Х			Х	Х
Х				Х	Х
				Х	Х
	Х			Х	Х
			Х	Х	Х
				Х	Х
	Х			Х	Х
	Х			Х	Х





6

4

3

A timed local override control shall allow an occupant to override the schedule and place the unit into an occupied mode for an adjustable period of time. At the expiration of this time, control of the unit shall automatically return to

The unit shall maintain zone setpoints by controlling the airflow through one of the following:

• When zone temperature is greater than its occupied cooling setpoint, the zone damper shall modulate between the minimum occupied airflow (adj.) and the maximum cooling airflow (adj.) until the zone is

### Unoccupied:

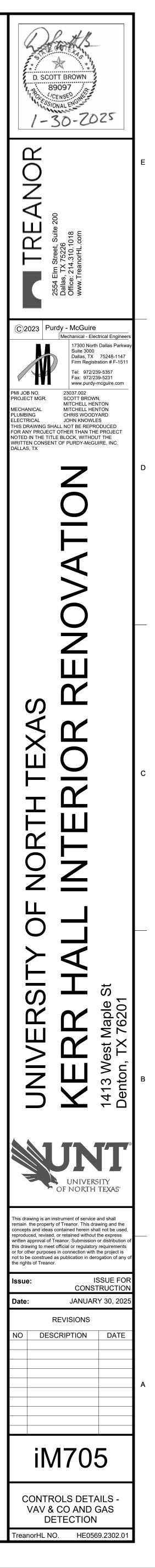
• AND the fan is on.

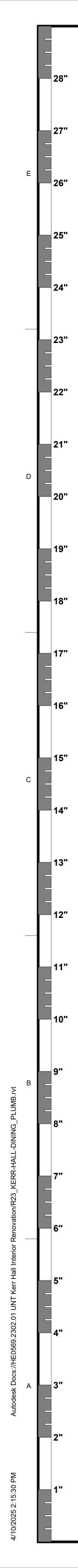
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- When zone temperature is greater than its unoccupied cooling setpoint, the zone damper shall modulate between the minimum occupied airflow (adj.) and the maximum cooling airflow (adj.) until the zone is satisfied.
- When the zone temperature is less than the unoccupied cooling setpoint and above the unoccupied heating setpoint, the zone damper shall maintain the minimum required zone ventilation (adj.).
- When zone temperature is less than its unoccupied heating setpoint, the zone damper shall maintain the heating airflow (adj.) until the zone is satisfied.

<u>Heating Coil Valve:</u> The controller shall measure the zone temperature and modulate the heating coil valve to maintain its heating setpoint. The heating shall be enabled whenever: • The zone temperature is below heating setpoint.

Discharge Air Temperature: The controller shall monitor the discharge air temperature.





### **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.
- . EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY AND PREVIOUS RECORD DRAWINGS DATED 12/30/1988. 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. 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.
- . 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
- 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:**

- 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. 4. LEED PROJECTS HAVE ADDITIONAL COMMISSIONING REQUIREMENTS THAT VARY FROM THOSE LISTED ABOVE

6		FIXTURE	FIXTURE UNIT TABL	JLATIO	N
3	SIZE	UNIT LOAD	FIXTURE	COLD	HOT
	1/2	1-11	VALVE WATER CLOSET	10	
:	3⁄4"	12-32	TANK WATER CLOSET	5	
	1"	33-60	URINAL	5	
1	11⁄4"	61-113	LAVATORY/SINK	1.5	1.5
1	11⁄2"	114-154	JANITOR SINK	3	3
	2"	154-330	SHOWER/BATHTUB	2	2

AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

<u>i Lombing Fifi</u>		& JOINTS SCHEDU	<u>/ L L</u>		
APPLICATION	MATERIAL	FITTINGS	JOINTS		
DOMESTIC					
	COPPER	SOLDER	BRAZED		
UNDERSLAB (4" AND SMALLER)	PVC				
ABOVEGROUND					
2" AND SMALLER	COPPER	FLANGES	BRAZED		
		SOLDER	SOLDER		
		*PRESS FITTIN	GS ACCEPTED		
	STAINLESS STEEL	STAINLESS STEEL	WELDED		
LARGER THAN 2"	COPPER	FLANGES	BRAZED		
		SOLDER	SOLDER		
	STAINLESS STEEL	STAINLESS STEEL	WELDED		
NATURAL GAS					
	PE PIPE	HEAT	FUSION		
UNDERGROUND		MECHANICAL	CHANICAL COUPLINGS		
UNDERGROUND	STEEL PIPE	WROUGHT-STEEL	WELDED		
		MECHANICAL COUPLINGS			
		PRESS FITTINGS	NOT ACCEPTED		
ABOVEGROUND					
2" AND SMALLER	STEEL	MALEABLE IRON	THREADED		
LARGER THAN 2"	STEEL	WROUGHT STEEL IRON	WELDED		
SANITARY WASTE & VENT					
UNDERGROUND	EXTRA-HEAVY CLASS, CAST IRON SOIL PIPE	EXTRA-HEAVY CLASS, CAST IRON SOIL FITTINGS, GASKETS	GASKETED		
	SOLID WALL SCH 40 PVC	SOLID WALL SCH 40 PVC	SOLID WALL SCH 40 PVC		
ABOVEGROUND	HUBLESS CAST IRON SOIL PIPE	HUBLESS CAST IRON SOIL FITTINGS	STANDARD COUPLINGS AND HUBLESS-COUPLING JOINTS		
EXPOSED PIPING IN KITCHEN	DWV COPPER	WROUGHT COPPER	BRAZED		
STORM			-		
UNDERGROUND	EXTRA-HEAVY CLASS, CAST IRON SOIL PIPE	EXTRA-HEAVY CLASS, CAST IRON SOIL FITTINGS, GASKETS	GASKETED		
UNDERGROUND	SOLID WALL SCH 40 PVC	SOLID WALL SCH 40 PVC	SOLID WALL SCH 40 PVC		
ABOVEGROUND	HUBLESS CAST IRON SOIL PIPE	HUBLESS CAST IRON SOIL FITTINGS	SHIELDED STAINLESS STEE COUPLINGS & FITTINGS		
MAKEUP-WATER PIPING			1		
	COPPER	WROUGHT COPPER	SOLDERED		
CONDENSATE					
JUNDENDATE	COPPER	WROUGHT COPPER	SOLDERED		

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. 4. ALL PIPING SHALL BE U.S. DOMESTIC ONLY. FOREIGN MANUFACTURED PIPING WILL NOT BE ACCEPTED.

<u>PLUI</u>	MBING SYMBOLS LEGEND
SYMBOL	DESCRIPTION
SAN	SANITARY SEWER
ST	STORM DRAIN
RD	ROOF DRAIN
OFD	OVERFLOW DRAIN
= = = = = V= =	VENT
DCW=	DOMESTIC COLD WATER
	REVERSE OSMOSIS
	DEIONIZED WATER
SCW=	SOFT COLD WATER
DHW-	DOMESTIC HOT WATER
====DHWR=	DOMESTIC HOT WATER RETURN
CD	CONDENSATE DRAIN PIPING
F	FIRE PROTECTION PIPING
Ê	PIPING DOWN
	PIPING UP -OR- PIPING UP & DOWN
CO	CLEANOUT (CO) OR WALL CLEANOUT (WCO)
—ф FCO	FLOOR (FCO) OR GRADE (GCO) CLEANOUT
	CAP ON END OF PIPE
	DIRECTION OF FLOW
$\rightarrow$	DIRECTION OF SLOPE
$\boxtimes$	ISOLATION / SHUT-OFF VALVE (SOV) / GAS COCK
	UNION
-X-	BALANCING VALVE / CIRCUIT SETTER
	GAS REGULATOR
×	PRESSURE REDUCING VALVE (PRV)
12	CHECK VALVE
Ð	CONNECT TO EXISTING
	*NOTE: NOT ALL SYMBOLS MAY BE USED IN PLAN.

PLUN	<b>IBING ABBREVIATIONS</b>			
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			
FDC	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			

OUTDOOK: ALL SIZES				11/7	
INDOOR: ROOF DRAIN AND OVERFLOW DRAIN BODIES	6i	1"	8F	8F	NA
SANITARY SEWER AND GREASE WASTE PIPING					
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 25FT PIPING RECEIVING HOT WATER DISCHARGE INCLUDING THE FLOOR DRAIN AND P-TRAP (E)	6i (A)	1"	8F	5F	NA
BELOW GRADE: 1ST 25FT PIPING RECEIVING HOT WATER DISCHARGE INCLUDING THE FLOOR DRAIN AND P-TRAP	NA	NA	NA	NA	NA
COLD CONDENSATE DRAIN LINES					
INDOOR OR OUTDOOR: EXPOSED OR CONCEALED, ALL SIZES	6i (A)	1/2"	8F	5F	9F
VENT PIPING					
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
NATURAL GAS					
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
<ul> <li>B. USE 9F FINISH FOR CELLULAR FOAM</li> <li>C. THIS INCLUDES BUT IS NOT LIMITED TO, PIPING EXPOSE PUBLIC OR PRIVATE PERSONNEL, OR EXPOSED PIPING</li> <li>D. INSULATION ON INDOOR EXPOSED SANITARY PIPING IS OF THE ARCHITECT IN VERY LIMITED LOCATIONS. THE O SPECIFICALLY CALLED OUT ON THE PLUMBING FLOOR CONTRACTOR SHALL TREAT INDOOR EXPOSED SANITAI TREATED IN THIS SCHEDULE. REFER TO THE PLUMBING FOR COLOR SELECTIONS.</li> <li>E. DRAIN SERVING ANY WATER HEATING APPLIANCE (120 ° DOMESTIC WATER HEATERS, HEATING WATER BOILERS DISHWASHERS, ETC.</li> <li>F. ALL PROCESS WATER PIPES SHALL BE INSULATED TO T SCHEDULE ABOVE. THIS INCLUDES, BUT IS NOT LIMITED WATER, ETC, IF PRESENT.</li> <li>G. OUTDOORS INCLUDES ANY UNHEATED AREAS. REFER T LOCATIONS CONSIDERED OUTDOORS.</li> </ul>	DOWN KITCHEN FOR AESTHETH CONTRACTOR S PLANS. IF NOT I RY PIPING THE FLOOR PLANS F AND HIGHER AND DIRECT O HE SAME LEVE	NS WALLS, ETC. C APPEAL ONLY SHALL ONLY PRO INDICATED ON SAME WAY INDO FOR LOCATION ). THIS INCLUDE CONNECTIONS ( L AS THE DOME D (DI) WATER, FI	Y AND ONLY PE DVIDE THIS INS THE PLUMBING OOR CONCEAL IS. REFER TO SS BUT IS NOT OR DRAINS RE STIC COLD WATE	ROVIDED AT THE SULATION WHERE G FLOOR PLANS, ⁻ LED SANITARY PII THE ARCHITECTU LIMITED TO DRAI CEIVING WATER ATER LISTED IN T ER, REVERSE OSI	DIRECTION E IT IS THE PING IS IRAL PLANS NS BESIDE FROM HE MOSIS (RO)
INSULATION MATERIALS: 1i. CALCIUM SILICATE - MAXIMUM K FACTOR AT 500 DEGRE MEET NFPA 255 AND UL 723 FOR 0/0 FLAME SPREAD AND SM 2i. FIBERGLASS BOARD - PROVIDE SEMI-RIGID FIBERGLASS DEGREES F SHALL BE 0.24 AND A TEMPERATURE LIMIT OF 2 723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPED. 3i. FIBERGLASS DUCT WRAP - MAXIMUM K FACTOR AT 75 D FACED. DENSITY SHALL BE 0.75 LBS/FT3. NFPA 255 AND UL 7 4i. CELLULAR FOAM - EQUAL TO AP/ARMAFLEX TUBES OR S DEGREES F SHALL BE 0.28. MAXIMUM OPERATING TEMPERAF FLAME SPREAD AND SMOKE DEVELOPED AND MUST BE FRE 5i. FIBERGLASS DUCT LINER - REFER TO SECTION 23313 FC 6i. FIBERGLASS PIPE INSULATION - MAXIMUM K FACTOR AT F. DENSITY SHALL BE 3.5 LBS/FT3/ NFPA 255 AND UL 7723 FC 7i. MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I NA. NOT APPLICABLE OR NONE REQUIRED.	AOKE DEVELOP S BOARD WITH A 250 DEGREES F SHA 723 FOR 25/50 F SHEETS, AS APP ATURE OF 200 D EE OF ANY CFC DR ADDITIONAL 100 DEGREES	ED. A DENSITY OF 3 (FACED) AND 4 LL BE 0.30, MUS LAME SPREAD A PLICABLE TO IN DEGREES F. MUS S,HFCS, OR HCI INFORMATION F SHALL BE 0.2	ELBS/FT3. MAX 50 DEGREES F AND SMOKE D STALLATION. M ST MEET NFPA FCS 4, MUST PASS	(IMUM K FACTOR (UNFACED). NFP C411 TO 250 DEG EVELOPMENT. MAXIMUM K FACT 255 AND UL723 F ASTM C411 TO 85	AT 75 A 255 AND U GREES F OR AT 75 FOR 25/50
		SPREAD AND S	MOKE DEVEL	OPED.	

DOMESTIC COLD

DOMESTIC HOT \

STORM AND STOP

	INSUL	ATION		ISULATION FINIS			
			`	H IF NO INSULAT	,		
APPLICATION	INSULATION TYPE	INSULATION THICKNESS	INDOOR CONCEALED	INDOOR EXPOSED (C)	OUTDOOR (G)		
WATER PIPING (F)							
NDOOR: 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		
VATER PIPING							
NDOOR: 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		
RM OVERFLOW PIPING							
INDOOR: ALL SIZES	6i	1"	8F	5F	NA		
OUTDOOR: ALL SIZES	NA	NA	NA	NA	NA		
OF DRAIN AND OVERFLOW DRAIN BODIES	6i	1"	8F	8F	NA		
R AND GREASE WASTE PIPING							
INDOOR: CONCEALED, ALL SIZES	NA	NA	NA	NA	NA		
OR: 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		
GRADE: 1ST 10FT PIPING RECEIVING COLD NCLUDING THE FLOOR DRAIN AND P-TRAP	6i (A)	1"	8F	5F	NA		
GRADE: 1ST 10FT PIPING RECEIVING COLD NCLUDING THE FLOOR DRAIN AND P-TRAP	NA	NA	NA	NA	NA		
: 1ST 25FT PIPING RECEIVING HOT WATER .UDING THE FLOOR DRAIN AND P-TRAP (E)	6i (A)	1"	8F	5F	NA		
: 1ST 25FT PIPING RECEIVING HOT WATER NCLUDING THE FLOOR DRAIN AND P-TRAP	NA	NA	NA	NA	NA		
ATE DRAIN LINES							
DUTDOOR: EXPOSED OR CONCEALED, ALL SIZES	6i (A)	1/2"	8F	5F	9F		
INDOOR: CONCEALED, ALL SIZES	NA	NA	NA	NA	NA		
OR: 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		
INDOOR: CONCEALED, ALL SIZES	NA	NA	NA	NA	NA		
INDOOR: EXPOSED (C), ALL SIZES	NA	NA	NA	NA	NA		
OB EVROSED OB CONCEALED ALL SIZES	NIA	N I A	I NIA		05		

### R FOAM MAY BE SUBSTITUTED NISH FOR CELLULAR FOAM

8F. WHITE ALL-SERVICE JACKET (VAPOR BARRIER).

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. 2F. 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. FOIL/REINFORCED/KRACT JACKET (VAPOR BARRIER).

7F. 1/4-INCH WEATHERPROOF MASTIC WITH GLASS MESH REINFORCEMENT. SLOPE TOP OF DUCT MINIMUM OF 1/4" PER FOOT TO PREVENT PONDING.

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

2

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

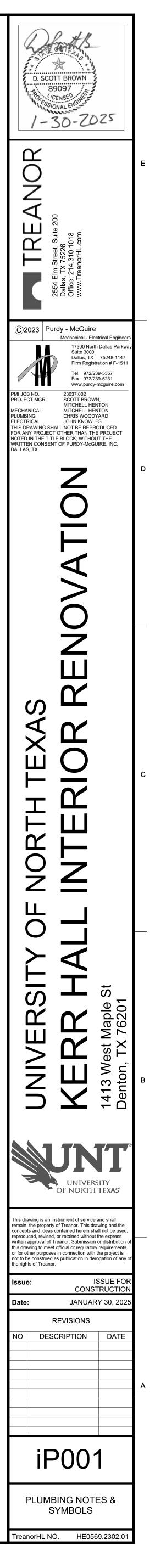
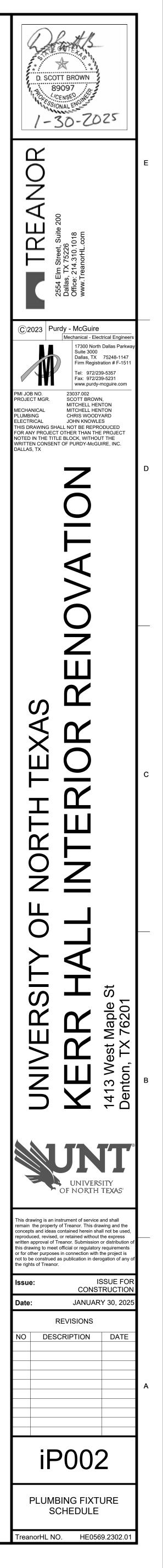


	IMAGE	DESIGN.	FIXTURE	MANUFACTURER	MODEL NUMBER	ADDITIONAL COMPONENTS	GPF/GPM	ROUGH DCW	I-IN CON DHW	NECTIOI SAN	N SIZES VENT	DESCRIPTION
27"	C C	WCA	WATER CLOSET BODY	KOHLER	WELLCOMME ULTRA 15" HEIGHT, 1.1 GPF TO 1.6 GPF, ELONGATED BOWL, VITREOU CHINA WITH EVERCLEAN FINISH, MODEL 3451.001		-	REF: FVW	-	4"	2"	FLOOR MOUNTED, 15" HEIGHT, SIPHON JET, ELONGATED BOWL WIT CHURCH #9500C SEAT.
26"	9	WCB (ADA)	WATER CLOSET BODY	KOHLER	WELLCOMME ULTRA 16.5" HEIGHT, .1 GPF TO 1.6 GPF, ELONGATED WITH EVERCLEA 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 BO WITH CHURCH #9500C SEAT.
		FVW	MANUAL WATER CLOSET FLUSH VALVE	SLOAN	MODEL # ROYAL 111-1.28	-	1.28 GPF	1"	-	-	-	EXPOSED, MANUAL FLUSH VALVE, AND HIGH EFFICIENCY. IF INSTAL ADA WATER CLOSET, CONFIRM ROUGH-IN HEIGHTS WITH ARCHITE DRAWINGS AND MANUFACTURER'S RECOMMENDED ADA INSTALLA PRIOR TO ROUGH-IN. FIXTURE SHALL HAVE LEED WATERSENSE LA
25"	Ċ	URA / URB(ADA)	URINAL BODY	AMERICAN STANDARD	WASHBROOK FLOWISE UNIVERSAL URINAL, 0.125GPF TO 1.0GPF, ELONGATEI RIM WITH EVERCLEAN FINISH, MODEL #6590.001	D 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 ST AND JOSAM CARRIER. INSTALLED AT 24" MOUNTING HEIGHT FOR A STANDARD URINAL "URA" AND INSTALLED AT ADA MOUNTING HEIG 17" FROM FLOOR TO LIP OF URINAL BASIN FOR URINAL "URB".
24"		FVU	MANUAL URINAL FLUSH VALVE	SLOAN	MODEL # ROYAL 186-0.125	-	0.125 GPF	3/4"	-	-	-	EXPOSED, MANUAL FLUSH VALVE, AND HIGH EFFICIENCY. IF INSTA ADA URINAL, CONFIRM ROUGH-IN HEIGHTS WITH ARCHITECTURAL DRAWINGS AND MANUFACTURER'S RECOMMENDED ADA INSTALLA PRIOR TO ROUGH-IN. FIXTURE SHALL HAVE LEED WATERSENSE LA
23"		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, GLA ADA COMPLIANT. PROVIDE WITH CHROME-PLATED CAST BRASS P- WITH CLEANOUT. CHROME PLATED GRIP TYPE SUPPLY WITH WAL ESCUTCHEON AND LOOSE-KEY WALL STOPS EQUAL TO MCGUIRE 15BLK. PROVIDE TRUEBRO INSULATION KIT FOR ADA COMPLIANCE
22"		FTL	MANUAL LAVATORY FAUCET		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 GRID STRAINER ASSEMBLY. CONFIRM ALL FINISH COLORS WITH ARCHITECT PRIOR TO ORDER.
22	$\bigcirc$	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"	36" X 36" X 12" TERRAZZO MOP SINK WITH STAINLESS STEEL BUMF GUARD, STAINLESS STEEL BACK PANELS.
21"	TREE	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. PROVIDE WITH "RPZ-S" (REDUCED	FULL FLOW	3/4"	3/4"	-	-	VANDAL PROOF LEVER, VACUUM BREAKER, CHROME PLATED, PA HOSE THREADED OUTLET, ADA COMPLIANT. PROVIDE WITH 5FT H COUPLING.
20"		EWC	ELECTRIC WATER COOLER WITH BOTTLE FILLER	HALSEY TAYLOR (ELKAY)	EZSTL8WSK	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 AND BOTTLE FILLING STATION WITH STAINLESS STEEL FINISH. PRO WITH WALL CARRIER #MLP200. COOLER BI-LEVEL UNIT SHALL DEL GPH OF 50°F WATER AT 80°F INLET TEMPERATURE. REFRIGERANT R134A. PROVIDE WITH FACTORY INSTALLED PLUG AND POWER CORD. COORDINATE WITH ELECTRICAL CONTRACTOR TO ENSURE A SIMP GFCI RECEPTACLE, OR GFCI CIRCUIT BREAKER IF THE RECEPTAC INACCESSIBLE, ON A DEDICATED 120V/20A/1P CIRCUIT IS PROVIDE EACH WATER COOLER.
17"	9	HD	HUB DRAIN	JOSAM	SERIES 88600	-	-	-	-	REF: PLANS	REF: PLANS	OPEN CAST IRON DRAINAGE HUB. REFER TO PLANS FOR SIZE. SQUARE, COATED CAST IRON FLOOR DRAIN, TWO-PIECE BODY W
	Ţ	FD	FLOOR DRAIN SQUARE	JOSAM	MODEL # 30000-S	-	-	-	-	3"	2"	DOUBLE DRAINAGE FLANGE, FLASHING COLLAR, WEEP-HOLES, A BOTTOM OUTLET. PROVIDE CHROME PLATED STRAINER. DRAIN S COVERED DURING CONSTRUCTION. PROVIDE WITH PROTECTIVE COVER.
16"	Li di constanta del	FS	FLOOR SINK	ZURN	1900-NH-ZN-KC-P-2-32	-	-	-	-	4"	2"	SQUARE CAST IRON FLOOR SINK WITH WHITE A.R.E. COATED INTI DOUBLE DRAINAGE FLANGE WITH WEEPHOLES, BOTTOM OUTLET ALUMINUM INTERNAL DOME STRAINER, NON-TRAFFIC, ANTI-TILTII GRATE. 12" X 12" TOP SIZE WITH N.B. FRAME AND 1/2 GRATE. PRO WITH TRAP GUARD, "W/TG" OR TRAP PRIMER "W/TP" AS INDICATE PLANS.
15"		FCO	FLOOR CLEANOUT	JOSAM	SERIES 55000-2-31	-	-	-	-	REF: PLANS	-	CAST IRON BODY WITH SATIN FINISH NIKOLAY TOP. CONFIRM FIN COLOR WITH ARCHITECT. CONFIRM EXACT LOCATIONS WITH ARC PRIOR TO ROUGH-IN.
14"	<b>b</b> -0	WCO	WALL CLEANOUT	JOSAM	SERIES 58910	-	-	-	-	REF: PLANS	-	COATED CAST IRON CLEANOUT TEE WITH RECESSED, TAPPED PL POLISHED STAINLESS STEEL COVER (SERIES 58600).
13"	212	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 SWEA
		HSA	HYDRAULIC SHOCK ABSORBER	JOSAM	SERIES 75000	-	-	REF: PLANS	REF: PLANS	-	-	WROUGHT COPPER SHELL SIZE AND LOCATE IN ACCORDANCE W STANDARDS.
12"		VTR	VENT TO ROOF - TWO WAY CARBON FILTER	STUDOR	MAXI-FILTRA	-	-	-	-	-	REF: PLANS	ORIGINAL PACKAGING FOR OWNER'S ATTIC STOCK. REFER TO VE ROOF DETAIL FOR MORE INFORMATION.
	y	TG	TRAP GUARD	PRO-SET	TRAP GUARD	-	-	-	-	REF: FDx	-	INSTALL ON ALL FLOOR DRAINS, FLOOR SINKS, FLOOR TROUGHS DRAINS THAT ARE INDICATED "W/TG" WITH TRAP GUARD. NOTE T ALTERNATE TRAP GUARD SUBMITTED MUST BE OF THIS "LAMBS OR "CURLING FLAP" TYPE FORM. NO OTHER FORMS OF TRAP GUA BE ACCEPTED.
10"	E	AG	DISHWASHER AIR GAP	DEARBORN BRASS	MODEL # DB-CD-3	-	-	-	-	REF: EQUIP MENT	-	COPPER BODY AIR GAP WITH POLISHED CHROME PLATED METAL PROVIDE WITH NECESSARY ACCESSORIES AND TUBING FOR A CO INSTALLATION. CONFIRM COLOR/FINISH WITH ARCHITECT.
9"	♥⇒	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 BEVERAG MACHINES AND OTHER APPLIANCES. SHALL BE LEAD FREE. PROV COPPER DRAIN PIPING (SIZE PER MANUFACTURER) FROM VALVE ASSEMBLY AND ROUTE TO NEAREST DRAIN (HUB DRAIN OR FLOC
8"	he digitar	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. R SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. PROVIDE WIT SHUTOFF VALVES, LEAD FREE, FDA EPOXY COATED. PROVIDE FU COPPER DRAIN PIPING FROM VALVE ASSEMBLY AND PROVIDE FL FOR DRAIN NEAR ASSEMBLY AS SHOWN ON DRAWINGS. ENSURE ASSEMBLY IS ACCESSIBLE PER LOCAL JURISDICTION'S GUIDELIN POINT OF USE MIXING VALVE. VALVE SHALL BE ASSE 1070 CERTIF
7" 6"	-	TMV	POINT OF MIXING VALVE	LEONARD	S-170A-LF	-	-	REF: PLANS	REF: PLANS	-	-	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 E -COLD WATER INLET TEMPERATURE RANGE: 33-80 DEG F (1-27 DE -TEMPERATURE ADJUSTMENT RANGE: 95-120 DEG F (35-49 DEG C -NSF 61 CERTIFIED LEAD-FREE POINT OF USE MIXING VALVE. VALVE SHALL BE ASSE 1070 CERTIF
5" 4"		TMV ACCEPTABLE ALTERNATE	POINT OF MIXING VALVE	SLOAN	MODEL # MIX-135 0326045PK	-	-	REF: PLANS	REF: PLANS	-	-	CAPABLE OF MEETING OR EXCEEDING ALL OF THE FOLLOWING CHARACTERISTICS; -MINIMUM FLOW: 0.5 GPM (2.2 L/MIN) CERTIFIED TO ASSE 1016 [ON ALLOWED IF FAUCET IS 0.5 GPM OR GREATER. IF THE FAUCET IS THEN 0.5 GPM THE CONTRACTOR SHALL PROVIDE THE LEONARD -MAXIMUM FLOW: 4 GPM -MAXIMUM PRESSURE: 125 PSI (8.6 BAR) -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 -COLD WATER INLET TEMPERATURE RANGE: 33-80 DEG F (1-27 DE -TEMPERATURE ADJUSTMENT RANGE: 95-120 DEG F (35-49 DEG C) -NSF 61 CERTIFIED LEAD-FREE
G 1 2 3" 4 5 2"	2 EQU 3 ALL TYP 4 REF 5 SUB A. FI B. FI	ER TO SPECIFIC, IPMENT SHALL E WATER CLOSET ES TO BE WATEF ER TO ARCHITEC JECT TO COMPL LUSHOMETERS: XTURE SUPPOR ATER CLOSETS	FLUSH VALVES, URINAL FLU RSENSE LABELED. CTURAL PLANS FOR ALL FIN IANCE WITH ALL REQUIREM SLOAN, AMERICAN STANDA TS: JOSAM, MIFAB, JAY R. SI AND URNIALS: AMERICAN S	RECOMMENDATIONS OF T USH VALVES, PRIVATE LAV IISH COLORS. FOR ALL VIS IENTS LISTED IN THE SCHE RD, TOTO AND ZURN. MITH, TYLER PIPE WADE D TANDARD, KOHLER, SLOA		JCETS SHALL BE LEED WATERSENSE LABEL INCLUDE PRICING FOR A PREMIUM FINISH JFACTURERS INCLUDE THE FOLLOWING:						OT A LEED PROJECT PURDY-MCGUIRE STILL REQUIRES ALL THESE TECT DURING THE SUBMITTAL PHASE.

Spec Section							
	Product	Extended Warranty Description					
Division 22 - Pumbing							
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:	·						
include 2. Extend	rerials, equipment, and workmanship for all MEP systems are fully required parts and labor. led warranties listed above also begin at the date of substantial co ost stringent requirements, from either this schedule or the specific						





3.6 INSTRUCTIONS OF OWNER'S PERSONNEL A. PROVIDE THE SERVICES OF COMPETENT ENGINEERS OR TECHNICIANS TO INSTRUCT REPRESENTATIVES OF THE OWNER IN COMPLETE AND DETAILED OPERATION AND MAINTENANCE OF EACH ITEM OF EQUIPMENT AND B. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PROPER MAINTENANCE OF EQUIPMENT AND SYSTEMS UNTIL THE INSTRUCTIONS HAVE BEEN GIVEN TO THE OWNER'S PERSONNEL AND THE LETTER OF RELEASE

C. PROVIDE OPERATION & MAINTENANCE MANUALS (3 COPIES), ALONG WITH AS-BUILT SET OF PRINTS PRIOR TO SUBSTANTIAL COMPLETION OF THE PROJECT 3.7 ELECTRIC WIRING OF MOTORS AND EQUIPMENT A. LOW VOLTAGE HVAC CONTROL WIRING WILL BE INSTALLED BY THE HVAC CONTRACTOR WITH FINAL

CONNECTION TO THE HVAC EQUIPMENT BY THE HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL DISCONNECT SWITCHES AS REQUIRED FOR THE PROPER OPERATION OF THE EQUIPMENT UNLESS SUCH EQUIPMENT IS SPECIFIED TO BE PROVIDED WITH FACTORY MOUNTED DISCONNECT SWITCHES B. THE ELECTRICAL DESIGN AND DRAWINGS ARE BASED ON THE EQUIPMENT SCHEDULED AND SHOWN ON THE DRAWINGS, SHOULD ANY CONTRACTOR SUBMIT FOR APPROVAL EQUIPMENT REQUIRING CHANGES TO THE ELECTRICAL DESIGN FOR WHICH THE ELECTRICAL CONTRACTOR WILL REQUEST AN EXTRA, THIS EXTRA SHALL BE PAID BY THE CONTRACTOR PROVIDING THE ALTERNATE EQUIPMENT REQUIRING THE CHANGE.

A. THIS WORK SHALL BE INSTALLED IN SUCH A MANNER THAT UNDER ALL CONDITIONS OF LOAD IT SHALL OPERATE WITHOUT SOUND OR VIBRATION, WHICH IS OBJECTIONABLE IN THE OCCUPIED SPACES IN THE OPINION OF THE OWNER. IN THE CASE OF MOVING MACHINERY, SOUND OR VIBRATION ANNOYINGLY NOTICEABLE INSIDE ITS OWN ROOM CAN BE CONSIDERED AS OBJECTIONABLE. IN ANY CASE, SITUATION SHALL BE REMEDIED AT NOT COST TO THE OWNER.

A. PROVIDE ALL CUTTING, CHASING AND CHANNELING REQUIRED FOR ANY WORK UNDER THIS DIVISION. CUTTING SHALL HAVE PRIOR APPROVAL FROM ARCHITECT AND OWNER. B. ALL PATCHING SHALL BE BY GENERAL CONTRACTOR AND SHALL MATCH THE SURROUNDING SURFACES.

A. THE CONTRACTOR INSTALLING THE PLUMBING SYSTEMS SHALL FOLLOW ALL TESTS AS REQUIRED TO PROVE COMPLIANCE WITH ALL LOCAL CODES. TESTS PERFORMED SHALL BE EQUAL TO OR EXCEED THAT HEREINAFTER SPECIFIED. ALL PIPING SYSTEMS SHALL BE TESTED BEFORE THEY ARE COVERED OR MADE UNAVAILABLE FOR THE COMPLETE INSPECTION OF ALL JOINTS. IN ADDITION TO THE ABOVE, EACH AND EVERY SYSTEM TO BE INSULATED SHALL BE THOROUGHLY TESTED BEFORE THE INSTALLATION IS APPLIED. B. DOMESTIC WATER PIPING SYSTEM: UPON COMPLETION OF A SECTION OF THE ENTIRE WATER SUPPLY SYSTEM, IT SHALL BE TESTED AND PROVED TIGHT UNDER A WATER PRESSURE OF 125 PSIG. BUT NOT LESS THAN 10 PERCENT IN EXCESS OF THE WORKING PRESSURE UNDER WHICH IT IS TO BE USED. THE WATER USED FOR TESTS SHALL BE OBTAINED FROM A POTABLE SOURCE OF SUPPLY. C. SANITARY SYSTEMS: ALL SANITARY SEWER SYSTEMS SHALL BE TESTED EITHER IN SECTIONS OR IN THEIR ENTIRETY IN ACCORDANCE WITH ALL THE REQUIREMENTS OF THE LOCAL PLUMBING CODE AND TO THE

SATISFACTION OF THE LOCAL PLUMBING INSPECTOR. THESE TESTS SHALL BE EXAMINED IF DESIRED BY THE ARCHITECT OR HIS REPRESENTATIVE DURING THE TEST PERIOD AND AMPLE NOTICE OF PERFORMANCE OF THESE TESTS SHALL BE GIVEN.

SECTION 220523 - GENERAL DUTY VALVES

A. REFER TO SECTION 220500.

A. DOMESTIC, CHILLED, HOT, AND CONDENSER WATER SYSTEMS: PROVIDE VALVES, WHERE SHOWN ON THE DRAWINGS AND ELSEWHERE AS SPECIFIED OR REQUIRED, TO PROVIDE ISOLATION OF EQUIPMENT AND FIXTURES AND TO PROVIDE DRAINAGE OF LOW POINTS IN WATER LINES. VALVES SHALL BE IN ACCORDANCE WITH THE FOLLOWING DETAILED SPECIFICATIONS:

a. SIZES 2 INCH AND SMALLER: BALL VALVE: NIBCO 585-70, FULL PORT, BRONZE BODY WITH STAINLESS STEEL b. SIZES 2 INCH AND SMALLER: CHECK VALVE: NIBCO S-433 CLASS 150, BRONZE. c. SIZES 2-1/2 INCH AND LARGER: BUTTERFLY VALVE: NIBCO LC2000 LUG STYLE, CAST IRON, 200 PSIG WITH

STAINLESS STEEL TRIM AND EPDM SEAT. d. SIZES 2-1/2 INCH AND LARGER: CHECK VALVE: NIBCO F-918-B CAST IRON, FLANGED, 200 PSIG WITH BRONZE

A. VALVES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS, AND IN SUCH MANNER AS TO PERMIT DISASSEMBLY, REMOVAL, REASSEMBLY AND REPLACEMENT.

SECTION 220529 - HANGERS AND SUPPORTS

A. REFER TO SECTION 220500.

A. PIPE HANGERS AND SUPPORTS SHALL CONFORM TO THE RECOMMENDATIONS OF ASHRAE, ASPE, ANSI AND B. PROVIDE FACTORY-FABRICATED PIPE HANGERS AND SUPPORTS IN WHICH MATERIALS, DESIGN AND

MANUFACTURE COMPLY WITH ANSI/MSS SP-58. SELECT AND APPLY PIPE HANGERS AND SUPPORTS IN COMPLIANCE WITH MSS SP-69, AND MANUFACTURER'S PUBLISHED PRODUCT INFORMATION. FABRICATE AND INSTALL PIPE HANGERS AND SUPPORTS IN COMPLIANCE WITH MSS SP-89. C. USE ONLY ONE TYPE OF HANGER AND SUPPORT, BY ONE MANUFACTURER, FOR EACH PIPING SERVICE. D. PROVIDE COPPER-PLATED HANGERS AND SUPPORTS FOR COPPER PIPING SYSTEMS WHERE HANGERS ARE IN CONTACT WITH BARE PIPE E. PROVIDE PROTECTIVE COATINGS ON HANGERS AND SUPPORTS WHEN LOCATED IN OUTDOOR AND/OR

CORROSIVE ENVIRONMENTS. PROTECTIVE COATINGS SHALL BE AS RECOMMENDED BY THE COATING MANUFACTURER'S REQUIREMENTS. 2.2 HORIZONTAL PIPING HANGERS AND SUPPORTS A. SELECT SIZE OF HANGERS AND SUPPORTS TO EXACTLY FIT PIPE SIZE FOR BARE PIPING, AND AROUND PIPING

INSULATION WITH SADDLE OR SHIELD FOR INSULATED PIPING. 2.3 HANGER ROD ATTACHMENTS A. SELECT SIZE OF HANGER ROD ATTACHMENTS TO SUIT HANGER RODS.

SELECT SIZE AND TYPE OF BUILDING ATTACHMENTS TO SUIT HANGER RODS AND STRUCTURE.

2.5 PIPE INSULATION HANGER SHIELD INSERTS AND SHIELDS A. THERMAL HANGER INSERTS SHALL BE DESIGNED TO PREVENT INSULATION FROM BEING CRUSHED BY THE WEIGHT OF THE PIPING AND CONTENTS. B. SHIELDS SHALL BE FIELD OR FACTORY FABRICATED OF GALVANIZED SHEET METAL.

A. PROCEED WITH INSTALLATION OF HANGERS, SUPPORTS AND ANCHORS ONLY AFTER REQUIRED BUILDING STRUCTURAL WORK HAS BEEN COMPLETED IN AREAS WHERE THE WORK IS TO BE INSTALLED. 3.2 INSTALLATION OF BUILDING ATTACHMENTS A. INSTALL BUILDING ATTACHMENTS AT REQUIRED LOCATIONS, ON STRUCTURE FOR PROPER SUPPORT. SPACE

ATTACHMENTS WITHIN MAXIMUM PIPING SPAN LENGTH SPECIFIED IN THIS SECTION. INSTALL ADDITIONAL BUILDING ATTACHMENTS WHERE SUPPORT IS REQUIRED FOR ADDITIONAL CONCENTRATED LOADS, INCLUDING VALVES, FLANGES, GUIDES, STRAINERS AND EXPANSION JOINTS. ALSO PROVIDE ATTACHMENTS AT CHANGES IN DIRECTION OF PIPING AND WHERE REQUIRED BY A LIMITED CARRYING CAPACITY OF THE STRUCTURE. 3.3 INSTALLATION OF HANGERS AND SUPPORTS A. INSTALL HANGERS, SUPPORTS, CLAMPS AND ATTACHMENTS TO SUPPORT PIPING PROPERLY FROM BUILDING STRUCTURE IN COMPLIANCE WITH MSS SP-69. ARRANGE THE GROUPING OF PARALLEL RUNS OF HORIZONTAL PIPING TO BE SUPPORTED TOGETHER IN TRAPEZE-TYPE HANGERS WHERE POSSIBLE. WHERE PIPING OF

VARIOUS SIZES ARE TO BE SUPPORTED TOGETHER BY TRAPEZE HANGERS, SPACE HANGERS FOR SMALLEST PIPE SIZE OR INSTALL INTERMEDIATE SUPPORTS FOR SMALL DIAMETER PIPE. DO NOT USE WIRE OR PERFORATED METAL TO SUPPORT PIPING, AND DO NOT SUPPORT PIPING FROM OTHER PIPING. B. INSTALL HANGER AND SUPPORTS COMPLETE WITH NECESSARY BOLTS, RODS, NUT WASHERS AND OTHER ACCESSORIES. EXCEPT AS OTHERWISE INDICATED FOR EXPOSED CONTINUOUS PIPE RUNS, INSTALL HANGERS AND SUPPORTS OF SAME TYPE AND STYLE AS INSTALLED FOR ADJACENT SIMILAR PIPING. C. SUPPORT FIRE PROTECTION WATER PIPING INDEPENDENTLY OF OTHER PIPING.

A. INSTALL HANGERS AND SUPPORTS TO ALLOW MOVEMENT OF PIPING SYSTEMS AND TO PERMIT FREEDOM OF MOVEMENT BETWEEN PIPE ANCHORS, AND TO FACILITATE ACTION OF EXPANSION JOINTS, EXPANSION LOOPS, OFFSETS, EXPANSION BENDS AND SIMILAR UNITS. B. INSTALL HANGERS AND SUPPORTS SO THAT PIPING, LOADING, AND STRESSES FROM MOVEMENT WILL NOT BE TRANSMITTED TO CONNECTED EQUIPMENT

A. HANGERS FOR INSULATED COLD PIPING SHALL BE PLACED AROUND THE OUTSIDE OF THE INSULATION AND VAPOR BARRIER. a. PROVIDE A 180 DEGREE THERMAL INSERT ON THE BOTTOM OF THE PIPE. EXTEND VAPOR BARRIER ON TOP OF INSERT AND INSULATION AND PROVIDE INSULATION SHIELD BETWEEN INSERT AND HANGER. B. HANGERS FOR OTHER INSULATED PIPING MAY BE PLACED DIRECTLY AGAINST THE PIPING WITH INSULATION CARRIED COMPLETELY OVER AND AROUND HANGER AND ROD.

3/8 INCH

3/8 INCH

3/8 INCH

3/8 INCH

3/8 INCH

1/2 INCH

A. HANGERS SHALL BE SPACED SO AS TO SUPPORT PIPING PROPERLY. CAST IRON SOIL PIPES SHALL BE SUPPORTED ON HANGERS SPACED NOT MORE THAN PIPE LENGTH BEING EMPLOYED. HANGERS FOR ALL OTHER COPPER OR STEEL PIPING SHALL BE SPACED ACCORDING TO THE FOLLOWING SCHEDULE:

2 INCH AND LARGER 8 FEET

1/2 INCH

3/4 INCH

1 INCH

1-1/4 INCH

1-1/2 INCH

5 FEET

5 FEET

6 FFFT

6 FEET

8 FEET

SECTION 220553 - IDENTIFICATION

PART 1 - GENERAL 1.1 SCOPE OF WORK

A. REFER TO SECTION 220500. B. LABEL ALL NEW EQUIPMENT AND PIPING SYSTEMS. PART 2 - PRODUCTS

2.1 PIPE LABELS A. PRETENSION PIPE LABELS OF SEMI-RIGID PLASTIC FORMED TO COVER THE FULL CIRCUMFERENCE OF PIPE B. IDENTIFY THE SERVICE AND DIRECTION OF FLOW. LABELS SHALL CONTAIN AT LEAST ½ INCH HIGH LETTERING

AND BE PLACED SO THEY ARE EASY TO READ. 2.2 VALVE TAGS A. MULTILAYER, MULTICOLOR PLASTIC LABELS WITH MECHANICAL ENGRAVING AND CHAIN FOR ATTACHMENT TO

VALVE. 2.3 EQUIPMENT LABELS A. MULTILAYER, MULTICOLOR PLASTIC LABELS WITH MECHANICAL ENGRAVING AND HOLES FOR ATTACHMENT TO EQUIPMENT.

PART 3 - EXECUTION 3.1 PIPE LABELS

A. INSTALL PIPE LABELS WHERE PIPING IS EXPOSED OR ABOVE AN ACCESSIBLE CEILING AT MAXIMUM 20 FT. CENTERS 3.2 VALVE TAGS

A. ATTACH TAGS TO VALVES USING CHAIN. PROVIDE A VALVE SCHEDULE FOR MOUNTING IN THE MECHANICAL ROOM 3.3 EQUIPMENT LABELS

A. PERMANENTLY ATTACH LABELS TO EQUIPMENT. LOCATE WHERE LABEL CAN BE EASILY SEEN AND READ.

END OF SECTION.

SECTION 221116 - DOMESTIC WATER PIPING PART 1 - GENERAL

1.1 SCOPE OF WORK A. REFER TO SECTION 220500

PART 2 - PRODUCTS 2.1 COPPER PIPING

A. PROVIDE SOFT COPPER TUBE, TYPE "K", WITH SOLDER-JOINT FITTINGS FOR UNDER SLAB INSTALLATIONS. B. PROVIDE HARD COPPER TUBE, TYPE "L", WITH SOLDER JOINT FITTINGS FOR ALL ABOVE GRADE INSTALLATIONS

PART 3 - EXECUTION 3.1 INSTALLATION

A. CLEAN AND DISINFECT ALL NEW PIPING WITH WATER/CHLORINE SOLUTION B. INSTALL WATER PIPING LEVEL AND PLUMB. PROVIDE DRAIN VALVES AT ALL LOW POINTS. C. PIPING BELOW SLAB SHALL BE INSTALLED WITHOUT JOINTS.

END OF SECTION.

SECTION 221316 - SANITARY WASTE AND VENT PIPING PART 1 - GENERAL

1.1 SCOPE OF WORK A. REFER TO SECTION 220500

PART 2 - PRODUCTS 2.1 EXISTING CONDITIONS

A. PROVIDE PIPING MATERIALS TO MATCH EXISTING IN ALL CASES. 2.2 CAST IRON PIPING A. PROVIDE NO-HUB DWV PIPING FOR ALL ABOVE GRADE INSTALLATIONS WITH STANDARD COUPLINGS. B. PROVIDE BELL AND SPIGOT CAST IRON PIPING BELOW GRADE WHERE REQUIRED TO MATCH EXISTING

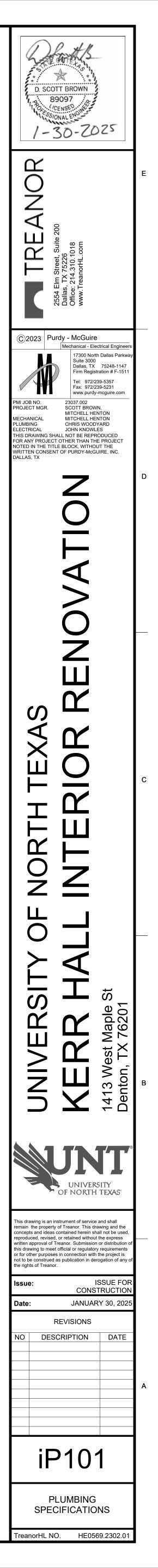
CONDITIONS. 2.3 PVC PIPING A. WHERE ALLOWED BY CODE AND THE OWNER'S CRITERIA. PROVIDE SCHEDULE 40 PVC PIPING ABOVE GRADE WITH SOLVENT-CEMENTED JOINTS. B. BELOW GRADE, PROVIDE SCHEDULE 40 PVC PIPING WITH SOLVENT-CEMENTED JOINTS.

PART 3 - EXECUTION 3.1 INSTALLATION

3

A. INSTALL WASTE PIPING AT 1/4 INCH PER FOOT SLOPE WHERE POSSIBLE. MINIMUM SLOPE SHALL BE 1/8 INCH PER FOOT B. PROVIDE CLEANOUTS AS REQUIRED BY CODE AND PROVIDE ADDITIONAL CLEANOUT LOCATIONS AS INDICATED ON THE DRAWINGS

END OF SECTION





# KEYED NOTES - SHEET IP2.00B

- 3/4" COLD WATER UP TO SERVE KITCHEN FIXTURES ON LEVEL ABOVE.
   3" GREASE WASTE UP TO FLOOR DRAIN.
- 4" GREASE WASTE UP TO FLOOR CLEANOUT (FCO).
  4" GREASE WASTE UP TO FLOOR SINK.

NO WORK

KITCHEN &

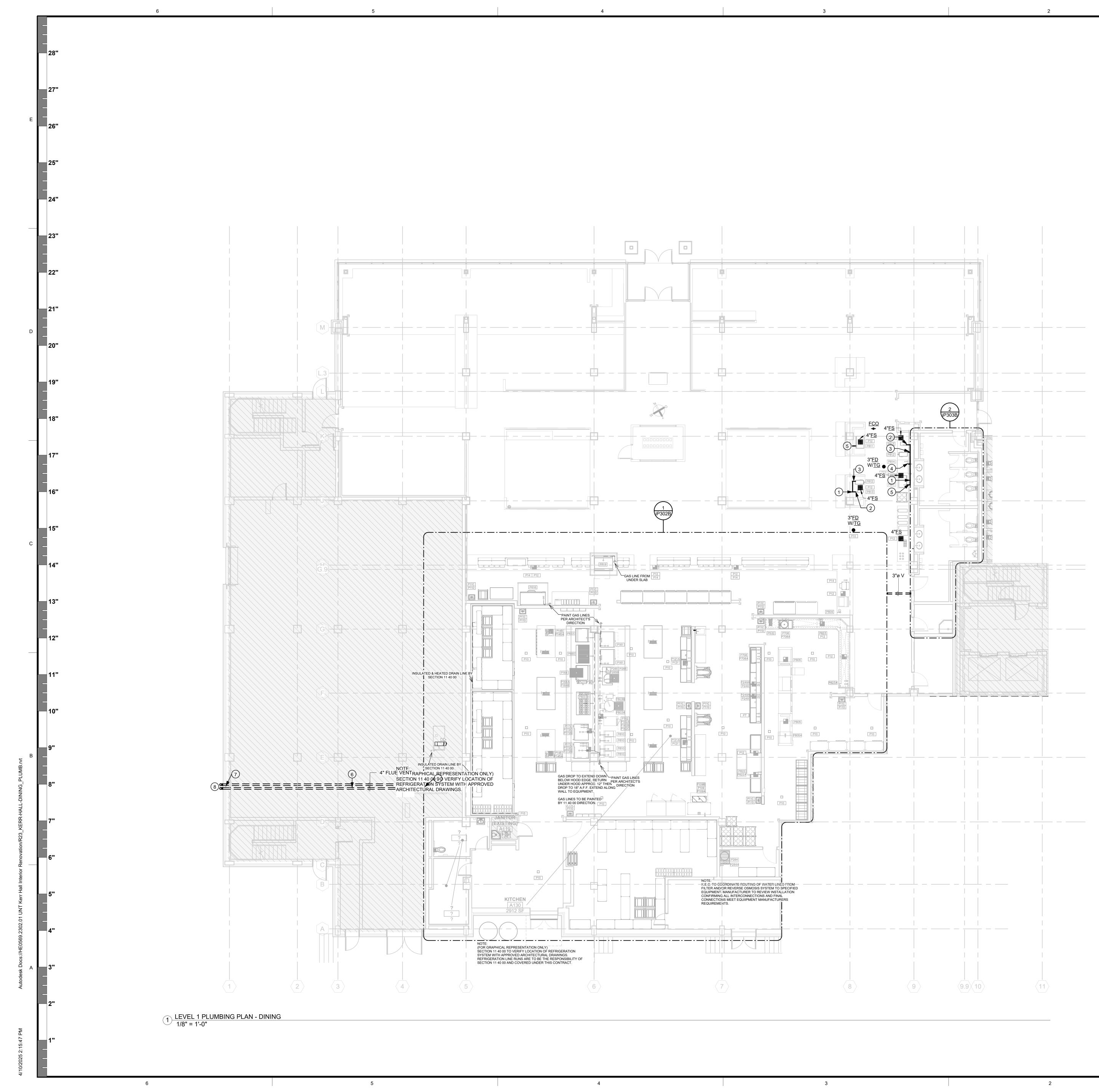
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2554 Elm Street, Suite 200 Dallas, TX 75226 Office: 214.310.1018 www.TreanorHL.com	E
C 2023       Purdy - McGuire         Mechanical - Electrical Er         Marchanical - Electrical Er         17300 North Dallas I         Suite 3000         Dallas, TX 75248-         Firm Registration # F         Tel: 972/239-5357         Fax: 972/239-5321         WWW.purdy-mcguire         PMI JOB NO.         PROJECT MGR.         23037.002         PROJECT MGR.         SCOTT BROWN,         MITCHELL HENTON         PLUMBING       CHRIS WOODYARD         ELECTRICAL       JOHN KNOWLES         THIS DRAWING SHALL NOT BE REPRODUCEL         FOR ANY PROJECT OTHER THAN THE PROJE         FOR ANY PROJECT OTHER THAN THE PROJE         NOTED IN THE TITLE BLOCK, WITHOUT THE         WRITTEN CONSENT OF PURDY-MCGUIRE, INV         DALLAS, TX	Parkway .1147 E-1511 
OVATION	
NORTH TEXAS INTERIOR REN	С
UNIVERSITY OF KERR HALL 1413 West Maple St	© Denton, TX 76201
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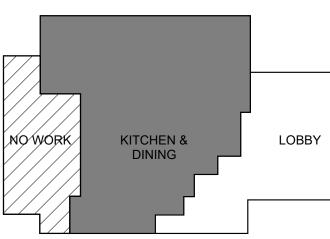
### **KEYED NOTES - SHEET IP2.01B**

- 1 EXTEND NEW 3/4" COLD WATER FROM BELOW, UP TO SERVE KITCHEN FIXTURES. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS, AND PIPE CONNECTION REQUIREMENTS OF KITCHEN EQUIPMENT.
- EXTEND NEW 3/4" COLD WATER UP TO JUICE DISPENSER KITCHEN FIXTURE. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS,
- AND PIPE CONNECTION REQUIREMENTS OF KITCHEN EQUIPMENT. EXTEND NEW 3/4" COLD WATER WITH AN ASSE 1022 COMPLIANT BACKFLOW
- PREVENTER (BFP) UP TO TEA/COFFEE BREWER KITCHEN FIXTURE. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS, AND PIPE CONNECTION REQUIREMENTS OF KITCHEN EQUIPMENT. EXTEND NEW 3/4" COLD WATER WITH AN ASEE 1013 COMPLIANT BACKFLOW
- PREVENTER (RPZ-S) UP TO ICE MACHINE KITCHEN FIXTURE. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS, AND PIPE CONNECTION REQUIREMENTS OF KITCHEN EQUIPMENT.
- EXTEND NEW 3/4" COLD WATER WITH AN ASSE 1022 COMPLIANT BACKFLOW PREVENTER (BFP) UP TO BEVERAGE MACHINE KITCHEN FIXTURE. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS, AND PIPE CONNECTION REQUIREMENTS OF KITCHEN EQUIPMENT.
- EXTEND (2) 4" FLUE VENTS THRU EXTERIOR SIDE WALL. CONTRACTOR TO COORDINATE FLUE VENTS EXTENDING THRU EXTERIOR SIDE WALL WITH EXISTING OPENING AND OTHER EXISTING PIPING IN THIS LOCATION PRIOR TO INSTALLATION.
- 8 TURN FLUE VENT PIPING UP AND TERMINATE WITH FLUE VENT CAP. CONTRACTOR TO REFER TO FLUE VENT MANUFACTURER FOR PIPING INSTALLATION AND REQUIREMENTS PRIOR TO INSTALLATION.
- 9 REFER TO SHEET IP301B FOR CONTINUATION OF FLUE VENT PIPING.

### **PLUMBING GENERAL NOTES:**

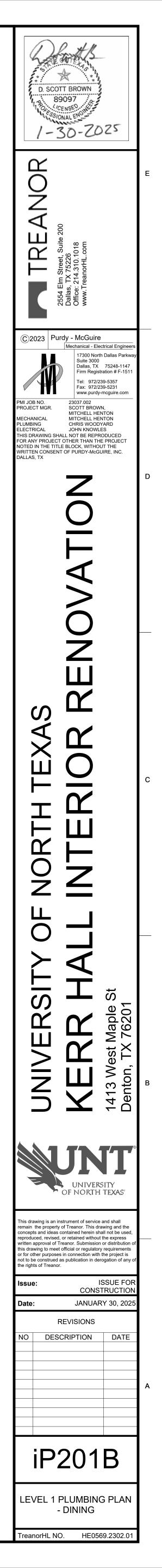
KITCHEN.

- A. REFER TO FOOD SERVICE DRAWINGS FOR ALL PLUMBING CONNECTIONS, SIZES, AND REQUIREMENTS TO FOOD SERVICE EQUIPMENT.
- B. INSTALL A THERMOSTATIC POINT OF USE MIXING VALVE (ASSE 1070 COMPLIANT) WITH INTEGRAL CHECK VALVE PRIOR TO CONNECTION OF HANDWASHING SINKS, LAVATORIES, AND SINKS IN
- PUBLIC USE SPACES, SET TO 120 DEG F. C. ALL KITCHEN EQUIPMENT DRAIN LINES WILL BE INDIRECTLY CONNECTED TO THE WASTE LINES WITH A MINIMUM 2" OR 2X PIPE DIAMETER AIR GAP, WHICHEVER IS GREATER. D. PROVIDE SHUT-OFF VALVES ON DOMESTIC HOT AND COLD WATER CONNECTIONS TO ALL FIXTURE IN AN ACCESSIBLE LOCATION.
- E. IF PVC IS ALLOWED FOR UNDERGROUND PIPING, CAST IRON PIPE SHALL BE INSTALLED FOR THE FIRST 25 FT_AFTER ANY DRAIN SERVING ANY WATER HEATING APPLIANCE (120 °F AND HIGHER) BEFORE TRANSITIONING BACK TO PVC. THIS INCLUDES BUT IS NOT LIMITED TO DRAINS ADJACENT TO AND DIRECT CONNECTIONS TO DOMESTIC WATER HEATERS, HEATING WATER BOILERS, DISHWASHERS, ETC.
- F. PROVIDE AN APPROVED BACKFLOW PREVENTION DEVICE ON DISH WASHER RINSE LINES, PRIOR TO ANY FILTER, WATER SOFTENER, ICE MACHINES, SODA MACHINES, TEA/COFFEE URNS, INTEGRAL TO THE MOP SINK FAUCET, INTEGRAL TO ALL MIXING VALVES, AND INTEGRAL TO HOSE BIBS. LOCATE BACKFLOW PREVENTION DEVICE 6" ABOVE THE OVERFLOW RIM AND AFTER LAST SHUTOFF VALVE TO EQUIPMENT. ROUTE DRAIN LINE FROM BACKFLOW PREVENTION DEVICE TO NEAREST DRAIN WITH AN AIR GAP.
- G. PROVIDE CHECK VALVE EQUAL TO WATTS SERIES LF601 CHECK VALVE ON THE HOT AND COLD WATER SUPPLY LINES TO THE FOLLOWING PIECES OF EQUIPMENT TO PREVENT MIGRATION OF HOT AND COLD WATER INTO OPPOSITE LINES: PRE-RINSE SPRAYER FAUCETS, MOP SINK, AND KETTLE FAUCETS. FEED WATER OVERHEAD AND MOUNT CHECK VALVE ABOVE ACCESSIBLE CEILING.
- H. ALL NEW AND EXISTING PVC PIPING WITHIN THE PROJECT SCOPE EXTENTS SHALL BE FIRE WRAPPED BOTH ABOVE AND BELOW GRADE PER UNT STANDARDS. I. ONCE NEW CIRCULATED HOT WATER LOOP IS INSTALLED, CONTRACTOR IS TO ENSURE PROPER BALANCE BETWEEN NEW AND EXISTING CIRCULATED HOT WATER LOOP SYSTEMS SERVING THE

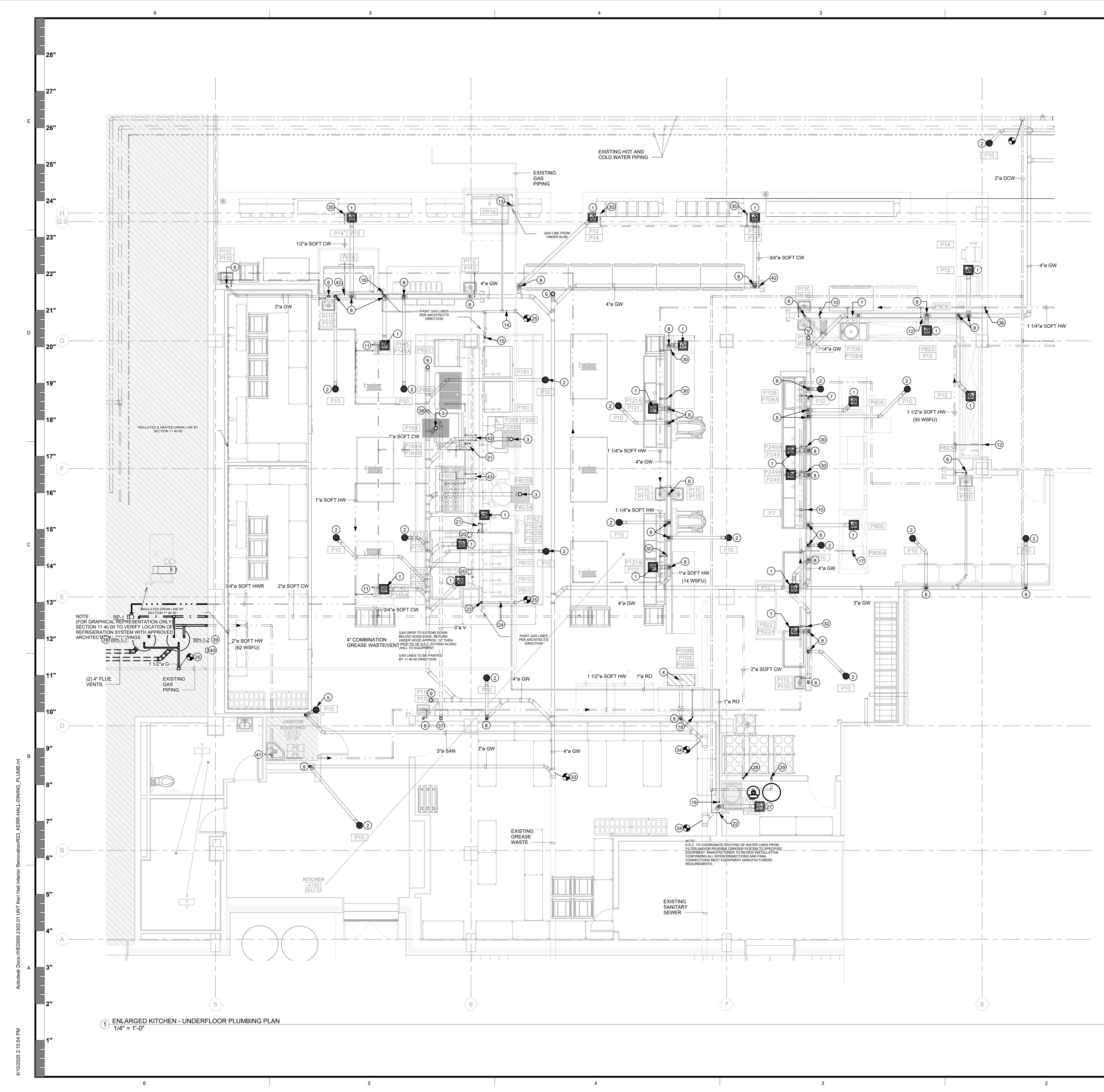


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KEY PLAN



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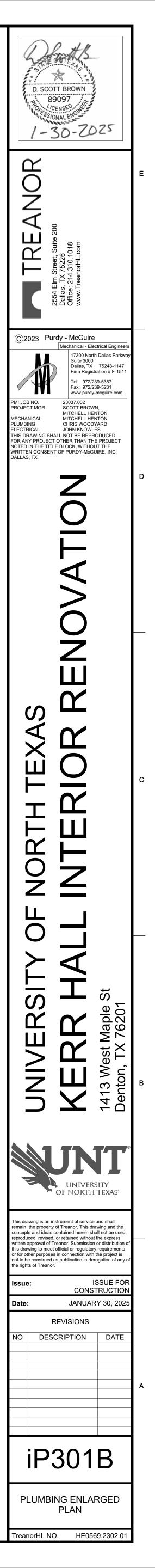


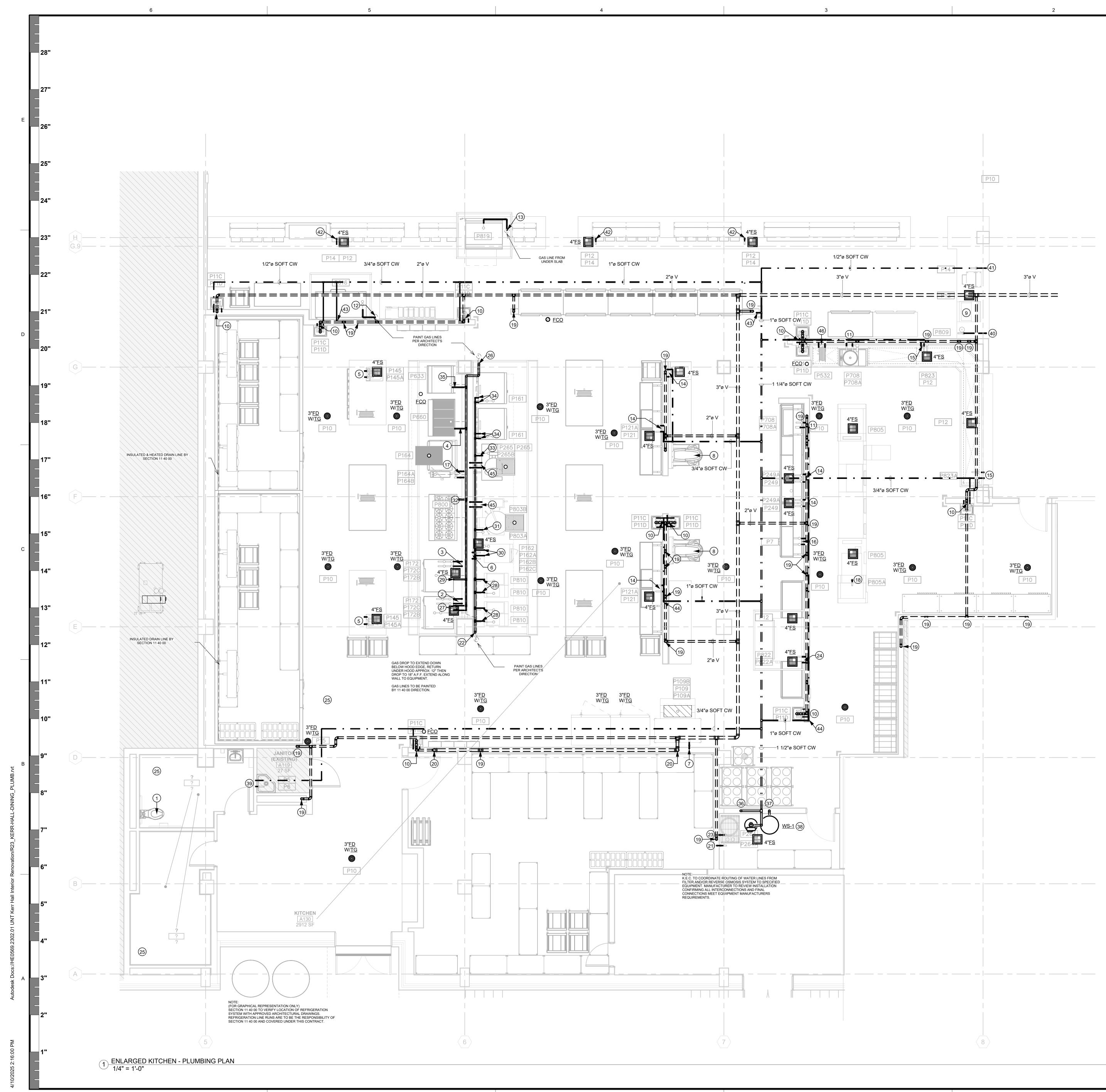
### **KEYED NOTES - SHEET IP3.01B**

- 1 4" GREASE WASTE UP TO FLOOR SINK. 2 3" GREASE WASTE UP TO FLOOR DRAIN.
- 3 4" GREASE WASTE UP TO TRENCH LINER DRAIN. REFER TO FOOD SERVICE CONSULTANT DRAWINGS FOR KITCHEN EQUIPMENT SPECIFICATION AND INSTALLATION. 4 3" SANITARY UP TO TRENCH LINER DRAIN. REFER TO FOOD SERVICE CONSULTANT DRAWINGS FOR
- KITCHEN EQUIPMENT SPECIFICATION AND INSTALLATION. 5 3" SANITARY UP TO FLOOR DRAIN.
- 6 2" GREASE WASTE, 1/2" SOFT HOT WATER UP TO HAND SINK FIXTURE. 7 2" GREASE WASTE, 3/4" SOFT HOT WATER UP TO SCRAP COLLECTOR FIXTURE.
- 8 2" VENT UP.
- 9 4" GREASE WASTE UP TO FLOOR CLEANOUT (FCO). 10 3/4" SOFT HOT WATER UP TO HOSE BIBB FIXTURE.
- 11 3/4" SOFT HOT AND COLD WATER UP TO SINK FAUCET FIXTURE.
- 12 3/4" SOFT HOT WATER UP TO FILL FAUCET FIXTURE. 13 1" LOW PRESSURE GAS (120 MBH) UP TO SERVE GAS KITCHEN FIXTURES. 14 EXTEND NEW 2" LOW PRESSURE GAS PIPING (EST. @ 1,280 MBH TOTAL @ 100 FT IN DEVELOPED
- LENGTH) TO SERVE KITCHEN EQUIPMENT. 15 2" LOW PRESSURE GAS (1,020 MBH) UP TO SERVE GAS KITCHEN FIXTURES.
- 16 1" LOW PRESSURE GAS (140 MBH) UP TO SERVE GAS KITCHEN FIXTURES.
- 17 3/4" FILTERED SOFT HOT WATER UP TO FLIGHT TYPE DISH MACHINE KITCHEN FIXTURE. 18 3/4" REVERSE OSMOSIS FILTERED COLD WATER UP TO ICE MACHINE KITCHEN FIXTURE.
- 19 1" REVERSE OSMOSIS FILTERED COLD WATER FROM REVERSE OSMOSIS FILTRATION EQUIPMENT ABOVE. 20 (2) 3/4" REVERSE OSMOSIS FILTERED COLD WATER UP TO COMBI-OVEN KITCHEN FIXTURE ABOVE
- 21 (2) 3/4" REVERSE OSMOSIS FILTERED COLD WATER UP TO CONVECTION STEAMER KITCHEN FIXTURE ABOVE.
- 22 3/4" COLD WATER UP TO REVERSE OSMOSIS SYSTEM KITCHEN FIXTURE. 23 2" LOW PRESSURE GAS (1,005 MBH) UP TO SERVE GAS KITCHEN FIXTURES.
- 24 EXTEND NEW 2" LOW PRESSURE GAS PIPING (EST. @ 1,280 MBH TOTAL @ 100 FT IN DEVELOPED LENGTH) TO SERVE KITCHEN EQUIPMENT. 25 CONTRACTOR TO CONNECT NEW 2" LOW PRESSURE (7"-14" W.C.) GAS PIPING TO EXISTING GAS PIPING. CONTRACTOR TO FIELD VERIFY, THE SIZE, LOCATION, AND PRESSURE OF EXISTING GAS
- LINE TIE-IN PRIOR TO NEW INSTALLATION. 26 CONTRACTOR TO CONNECT NEW 1-1/2" LOW PRESSURE (7"-14" W.C.) GAS PIPING TO EXISTING GAS PIPING. CONTRACTOR TO FIELD VERIFY, THE SIZE, LOCATION, AND PRESSURE OF EXISTING GAS LINE TIE-IN PRIOR TO NEW INSTALLATION.
- 27 4" SANITARY UP TO FLOOR SINK. 28 2" SOFT COLD WATER FROM WATER SOFTENER EQUIPMENT ABOVE.
- 29 2" COLD WATER UP TO SERVE WATER SOFTENER ABOVE. REFER TO SHEET IP302B FOR CONTINUATION.
- 30 3/4" SOFT HOT WATER UP TO SINK FAUCET FIXTURE.
- 31 3/4" SOFT HOT AND COLD WATER UP TO TILT BRAISING PAN FIXTURE. 32 3/4" SOFT HOT WATER UP TO POT, PAN & UTENSIL FIXTURE.
- 33 CONTRACTOR TO CONNECT NEW 4" GREASE WASTE PIPING TO EXISTING GREASE WASTE PIPING. CONTRACTOR TO FIELD VERIFY, THE SIZE, LOCATION, AND ELEVATION OF EXISTING GREASE WASTE
- PIPING PRIOR TO NEW INSTALLATION. 34 CONTRACTOR TO CONNECT NEW 4" SANITARY PIPING TO EXISTING SANITARY PIPING. CONTRACTOR TO FIELD VERIFY, THE SIZE, LOCATION, AND ELEVATION OF EXISTING SANITARY PIPING PRIOR TO NEW INSTALLATION.
- 35 3/4" SOFT COLD WATER UP TO FILL FAUCET FIXTURE. 36 3/4" SOFT HOT WATER UP TO DIPPER WELL FIXTURE.
- 37 3" RELIEF VENT UP.
- 38 3" RELIEF VENT DOWN TO TOP OF GREASE WASTE PIPE TO SERVE COMBINATION GREASE WASTE VENT SYSTEM. 39 100 GALLON GAS WATER HEATER TO SERVE KITCHEN AND RESTROOM HOT WATER FIXTURES. REFER TO WATER HEATER SCHEDULE ON SHEET IP-601 FOR WATER HEATER SPECIFICATION. REFER TO DETAIL 5 ON SHEET IP-502 FOR WATER HEATER PIPING INSTALLATION DETAIL.
- 40 AMERICAN GAS SAFETY MODEL AGSCH4CO-50 MINI MERLIN COMBINED NATURAL GAS AND CARBON MONOXIDE MONITOR TO MONITOR THE GAS WATER HEATERS. CONTRACTOR TO COORDINATE ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION. 41 3/4" SOFT HOT WATER UP TO SERVE EXISTING MOP SINK FIXTURE.
- 42 3/4" SOFT COLD WATER UP. 43 3/4" SOFT HOT AND COLD WATER UP TO KETTLE FIXTURE.

### **PLUMBING GENERAL NOTES:**

- A. REFER TO FOOD SERVICE DRAWINGS FOR ALL PLUMBING CONNECTIONS, SIZES, AND REQUIREMENTS TO FOOD SERVICE EQUIPMENT.
- B. INSTALL A THERMOSTATIC POINT OF USE MIXING VALVE (ASSE 1070 COMPLIANT) WITH INTEGRAL CHECK VALVE PRIOR TO CONNECTION OF HANDWASHING SINKS, LAVATORIES, AND SINKS IN
- PUBLIC USE SPACES, SET TO 120 DEG F. C. ALL KITCHEN EQUIPMENT DRAIN LINES WILL BE INDIRECTLY CONNECTED TO THE WASTE LINES WITH A MINIMUM 2" OR 2X PIPE DIAMETER AIR GAP, WHICHEVER IS GREATER.
- D. PROVIDE SHUT-OFF VALVES ON DOMESTIC HOT AND COLD WATER CONNECTIONS TO ALL FIXTURE IN AN ACCESSIBLE LOCATION.
- E. IF PVC IS ALLOWED FOR UNDERGROUND PIPING, CAST IRON PIPE SHALL BE INSTALLED FOR THE FIRST 25 FT_AFTER ANY DRAIN SERVING ANY WATER HEATING APPLIANCE (120 °F AND HIGHER) BEFORE TRANSITIONING BACK TO PVC. THIS INCLUDES BUT IS NOT LIMITED TO DRAINS ADJACENT TO AND DIRECT CONNECTIONS TO DOMESTIC WATER HEATERS, HEATING WATER BOILERS,
- DISHWASHERS, ETC. F. PROVIDE AN APPROVED BACKFLOW PREVENTION DEVICE ON DISH WASHER RINSE LINES, PRIOR TO ANY FILTER, WATER SOFTENER, ICE MACHINES, SODA MACHINES, TEA/COFFEE URNS, INTEGRAL TO THE MOP SINK FAUCET, INTEGRAL TO ALL MIXING VALVES, AND INTEGRAL TO HOSE BIBS. LOCATE BACKFLOW PREVENTION DEVICE 6" ABOVE THE OVERFLOW RIM AND AFTER LAST SHUTOFF VALVE TO EQUIPMENT. ROUTE DRAIN LINE FROM BACKFLOW PREVENTION DEVICE TO
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- H. ALL NEW AND EXISTING PVC PIPING WITHIN THE PROJECT SCOPE EXTENTS SHALL BE FIRE WRAPPED BOTH ABOVE AND BELOW GRADE PER UNT STANDARDS. ONCE NEW CIRCULATED HOT WATER LOOP IS INSTALLED, CONTRACTOR IS TO ENSURE PROPER BALANCE BETWEEN NEW AND EXISTING CIRCULATED HOT WATER LOOP SYSTEMS SERVING THE KITCHEN.





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### **KEYED NOTES - SHEET IP3.02**

1 EXISTING WATER CLOSET TO REMAIN.

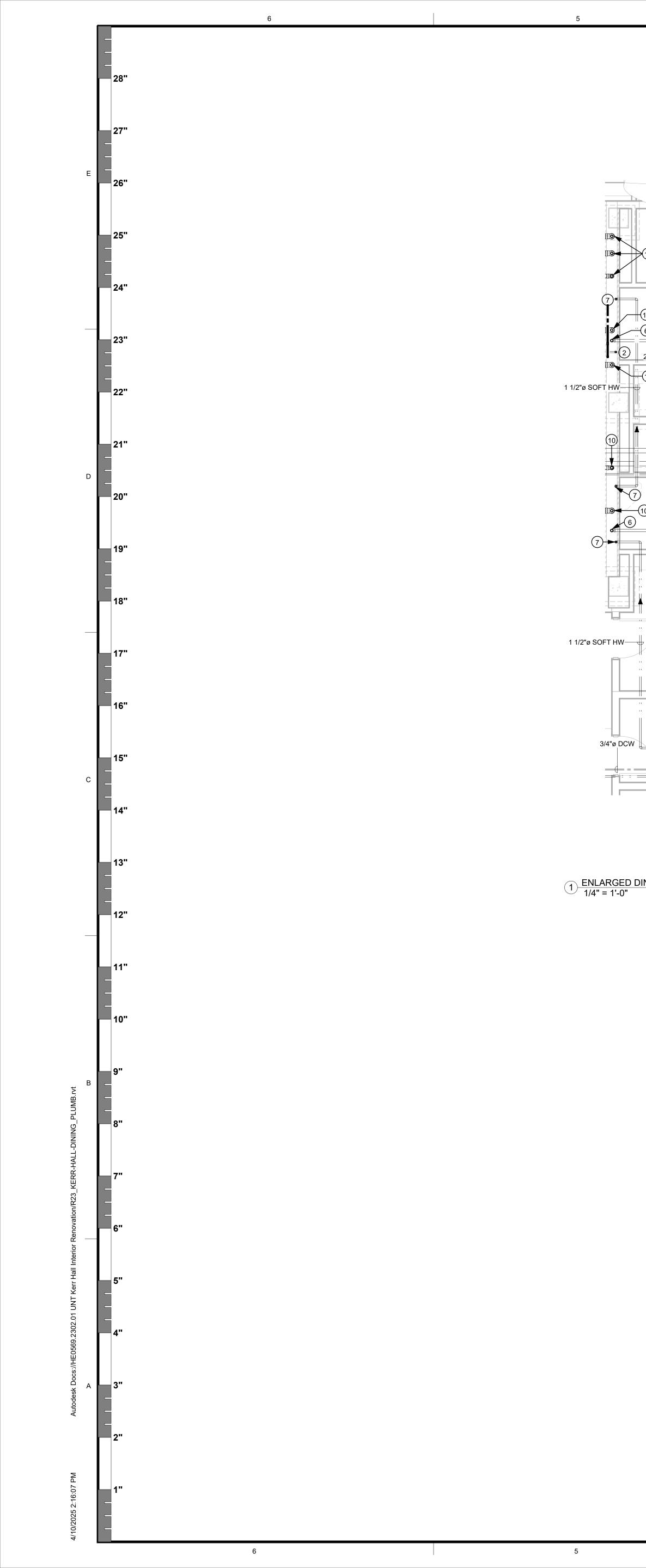
- 2 EXTEND NEW (2) 3/4" REVERSE OSMOSIS FILTERED COLD WATER FROM BELOW UP TO RELOCATED COMBI-OVEN KITCHEN FIXTURE. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
   3 EXTEND NEW (2) 3/4" REVERSE OSMOSIS FILTERED COLD WATER FROM BELOW UP TO RELOCATED
- CONVENTION OVEN KITCHEN FIXTURE. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
- 4 EXTEND NEW 3/4" LOW PRESSURE GAS (116 MBH) FROM GAS QUICK DISCONNECT UP TO RELOCATED EXISTING CHARBROILER KITCHEN FIXTURE. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF RELOCATED KITCHEN EQUIPMENT PRIOR TO NEW INSTALLATION.
   5 EXTEND NEW 3/4" SOFT HOT AND COLD WATER FROM BELOW UP TO WASH SINK KITCHEN FIXTURE. REFER TO
- FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
  EXTEND NEW (2) 3/4" REVERSE OSMOSIS FILTERED COLD WATER AND (2) 3/4" LOW PRESSURE GAS (ESTIMATED 72 MBH EACH @ 7"-14" W.C.) FROM BELOW UP TO EXISTING RELOCATED CONVECTION STEAMER KITCHEN EQUIPMENT. CONTRACTOR TO REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT PRIOR TO NEW INSTALLATION.
- AND FILE CONNECTIONS OF INTERFEDENCIAL EQUILIBRIT FINIOR TO NEW INSTALLATION.
   EXTEND NEW 3/4" REVERSE OSMOSIS FILTERED COLD WATER FROM BELOW UP TO RELOCATED EXISTING ICE MACHINE KITCHEN EQUIPMENT. CONTRACTOR TO FIELD VERIFY EXISTING FILTERED COLD WATER LOCATION, SIZE AND EXISTING LOAD PRIOR TO NEW INSTALLATION. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE AND FILTRATION SYSTEM LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
   RELOCATED EXISTING MIXER. CONTRACTOR TO FIELD VERIFY PLUMBING CONNECTION REQUIREMENTS WITH
- THE EXISTING EQUIPMENT PRIOR TO NEW INSTALLATION.
  RELOCATED EXISTING ICE CREAM DISPENSER. CONTRACTOR TO FIELD VERIFY PLUMBING CONNECTION REQUIREMENTS WITH THE EXISTING EQUIPMENT PRIOR TO NEW INSTALLATION.
  EXTEND NEW 2" GREASE WASTE ,2" VENT, 1/2" SOFT HOT AND COLD WATER TO HAND SINK KITCHEN FIXTURE. PROVIDE ALL ASSOCIATED PIPING AND HARDWARE NECESSARY FOR COMPLETE INSTALLATION PER
- MANUFACTURER'S SPECIFICATIONS. CONTRACTOR TO REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF RELOCATED KITCHEN EQUIPMENT.
  11 EXTEND NEW 2" GREASE WASTE, 2" VENT, 3/4" SOFT HOT AND COLD WATER TO SCRAP COLLECTOR KITCHEN FIXTURE. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF RELOCATED KITCHEN EQUIPMENT.
- 12 1" LOW PRESSURE GAS (140 MBH) FROM BELOW UP TO SERVE GAS KITCHEN FIXTURE. CONTRACTOR TO REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT. REFER TO THE FOOD SERVICE DRAWINGS FOR GAS FIXTURE LOCATION AND SPECIFICATIONS.
   13 1" LOW PRESSURE GAS (120 MBH) FROM BELOW UP TO SERVE GAS KITCHEN FIXTURES. CONTRACTOR TO REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT. REFER TO THE FOOD SERVICE DRAWINGS FOR GAS FIXTURE LOCATION AND PIPE CONNECTIONS OF
- SPECIFICATIONS.
  14 EXTEND NEW 3/4" SOFT HOT AND COLD WATER TO WASH SINK KITCHEN FIXTURE. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
  15 EXTEND NEW 3/4" SOFT HOT AND COLD WATER TO FILL FAUCET KITCHEN FIXTURE. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
- EXTEND NEW 3/4" SOFT HOT AND COLD WATER TO HOSE BIBB KITCHEN FIXTURE. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
   EXTEND NEW 3/4" HOT AND COLD WATER FROM BELOW UP TO TILT BRAISING PAN KITCHEN FIXTURE. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
- 3/4" FILTED SOFT HOT WATER FROM BELOW UP TO SERVE FLIGHT TYPE DISH MACHINE KITCHEN FIXTURE (P805A). REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
   2" VENT DOWN.
- 20 3" VENT DOWN.
  21 EXTEND NEW 3/4" COLD WATER FROM BELOW UP TO REVERSE OSMOSIS SYSTEM KITCHEN FIXTURE. REFER TO
- FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
  22 2" LOW PRESSURE GAS (1,005 MBH) FROM BELOW UP TO ANSUL AUTOMATIC GAS SHUT-OFF VALVE FOR MAIN GAS SUPPLY TO COOKING EQUIPMENT TO BE INTERLOCKED WITH HOOD FIRE SUPPRESSION SYSTEM SERVING GAS KITCHEN FIXTURES. REFER TO THE FOOD SERVICE DRAWINGS FOR GAS FIXTURE LOCATION AND SPECIFICATIONS.
- 23 EXTEND NEW 1" REVERSE OSMOSIS FILTERED COLD WATER FROM REVERSE OSMOSIS SYSTEM, DOWN BELOW GRADE TO SERVE REVERSE OSMOSIS FILTERED KITCHEN FIXTURES FROM BELOW. REFER TO SHEET IP301B FOR CONTINUATION.
  24 EXTEND NEW 3/4" SOFT HOT AND COLD WATER TO POT, PAN & UTENSIL FIXTURE. CONTRACTOR TO REFER TO
- 24 EXTENDINEW 3/4" SOFT HOT AND COLD WATER TO POT, PAN & UTENSIL FIXTURE. CONTRACTOR TO REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
   25 REFER TO SHEET IPD201B FOR EXISTING FIXTURES TO BE DEMO SCOPE OF WORK AND ASSOCIATED KEYED NOTES.
- 26 2" LOW PRESSURE GAS (1,020 MBH) FROM BELOW UP TO ANSUL AUTOMATIC GAS SHUT-OFF VALVE FOR MAIN GAS SUPPLY TO COOKING EQUIPMENT TO BE INTERLOCKED WITH HOOD FIRE SUPPRESSION SYSTEM SERVING GAS KITCHEN FIXTURES. REFER TO THE FOOD SERVICE DRAWINGS FOR GAS FIXTURE LOCATION AND SPECIFICATIONS.
- 27 EXTEND 3/4" LOW PRESSURE GAS (98 MBH) FROM GAS QUICK DISCONNECT UP TO COMBI OVEN KITCHEN FIXTURE. REFER TO DETAIL 8 ON SHEET IP502 FOR GAS QUICK DISCONNECT PIPING DETAIL AND INSTALLATION REQUIREMENTS. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
  28 EXTEND 1" LOW PRESSURE GAS (122 MBH) FROM GAS QUICK DISCONNECT UP TO FRYER KITCHEN FIXTURE.
- REFER TO DETAIL 8 ON SHEET IP502 FOR GAS QUICK DISCONNECT PIPING DETAIL AND INSTALLATION
   REQUIREMENTS. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE
   CONNECTIONS OF KITCHEN EQUIPMENT.
   29 EXTEND 1" LOW PRESSURE GAS (304 MBH) FROM GAS QUICK DISCONNECT UP TO COMBI OVEN KITCHEN
   FIXTURE. REFER TO DETAIL 8 ON SHEET IP502 FOR GAS QUICK DISCONNECT PIPING DETAIL AND INSTALLATION
- REQUIREMENTS. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
  30 EXTEND 3/4" LOW PRESSURE GAS (72 MBH) FROM GAS QUICK DISCONNECT UP TO CONVECTION STEAMER KITCHEN FIXTURE. REFER TO DETAIL 8 ON SHEET IP502 FOR GAS QUICK DISCONNECT PIPING DETAIL AND INSTALLATION REQUIREMENTS. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION,
- SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
   31 EXTEND 1" LOW PRESSURE GAS (150 MBH) FROM GAS QUICK DISCONNECT UP TO KETTLE KITCHEN FIXTURE REFER TO DETAIL 8 ON SHEET IP502 FOR GAS QUICK DISCONNECT PIPING DETAIL AND INSTALLATION REQUIREMENTS. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
- 32 EXTEND 1" LOW PRESSURE GAS (270 MBH) FROM GAS QUICK DISCONNECT UP TO RANGE/GRIDDLE KITCHEN FIXTURE. REFER TO DETAIL 8 ON SHEET IP502 FOR GAS QUICK DISCONNECT PIPING DETAIL AND INSTALLATION REQUIREMENTS. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
   33 EXTEND 2/4/L OW PRESSURE GAS (400 MPL) FROM CAS OUNCK DISCONNECT UP TO KETTLE KITCHEN EXTURE
- 33 EXTEND 3/4" LOW PRESSURE GAS (100 MBH) FROM GAS QUICK DISCONNECT UP TO KETTLE KITCHEN FIXTURE. REFER TO DETAIL 8 ON SHEET IP502 FOR GAS QUICK DISCONNECT PIPING DETAIL AND INSTALLATION REQUIREMENTS. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
   34 EXTEND 3/4" LOW PRESSURE GAS (60 MBH) FROM GAS QUICK DISCONNECT UP TO CONVECTION OVEN KITCHEN
- FIXTURE. REFER TO DETAIL 8 ON SHEET IP502 FOR GAS QUICK DISCONNECT PIPING DETAIL AND INSTALLATION REQUIREMENTS. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
   35 EXTEND NEW 3/4" LOW PRESSURE GAS (130 MBH) FROM GAS QUICK DISCONNECT UP TO KITCHEN FIXTURE.
- REFER TO DETAIL 8 ON SHEET IP502 FOR GAS QUICK DISCONNECT PIPING DETAIL AND INSTALLATION
   REQUIREMENTS. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE
   CONNECTIONS OF KITCHEN EQUIPMENT PRIOR TO NEW INSTALLATION.
   2" SOFT COLD WATER DOWN TO SERVE NEW WATER HEATERS AND ISLAND FIXTURES. REFER TO SHEET IP301B
   FOR CONTINUATON.
- 2" COLD WATER FROM BELOW UP TO SERVE WATER SOFTENER.
  WATER CONTROL CORPORATION MODEL # LF-150-MR WATER SOFTENER SYSTEM TO SERVE SOFT WATER TO KITCHEN FIXTURES. REFER TO WATER SOFTENER SCHEDULE ON SHEET IP601 FOR WATER SOFTENER SPECIFICATION AND SCHEDULE NOTES.
- 39 1/2" SOFT HOT AND COLD WATER TO SERVE EXISTING MOP SINK.
  40 EXTEND NEW 1/2" SOFT HOT WATER TO DIPPER WELL KITCHEN FIXTURE. REFER TO FOOD SERVICE DRAWINGS
- FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT. 41 EXTEND NEW 3/4" SOFT COLD WATER TO FILL FAUCET KITCHEN FIXTURE. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION OF CONTRACTOR AND DIFFERENCE OF CONTRACTOR OF CONTRACTO
- FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
  42 EXTEND NEW 3/4" SOFT COLD WATER FROM BELOW UP TO FILL FAUCET KITCHEN FIXTURE. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
- 43 EXTEND NEW 3/4" SOFT COLD WATER DOWN BELOW GRADE TO SERVE FILL FAUCET KITCHEN FIXTURE IN ISLAND COUNTER. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
- 44 1" SOFT COLD WATER DOWN IN WALL TO SERVE KITCHEN FIXTURES.
  45 EXTEND NEW 3/4" HOT AND COLD WATER FROM BELOW UP TO TILT KETTLE KITCHEN FIXTURE. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION. SPECIFICATIONS AND DIPE CONNECTIONS OF BELOCE
- FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF RELOCATED KITCHEN EQUIPMENT.
  46 EXTEND NEW 3/4" SOFT HOT AND COLD WATER TO HOSE REEL KITCHEN FIXTURE. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.

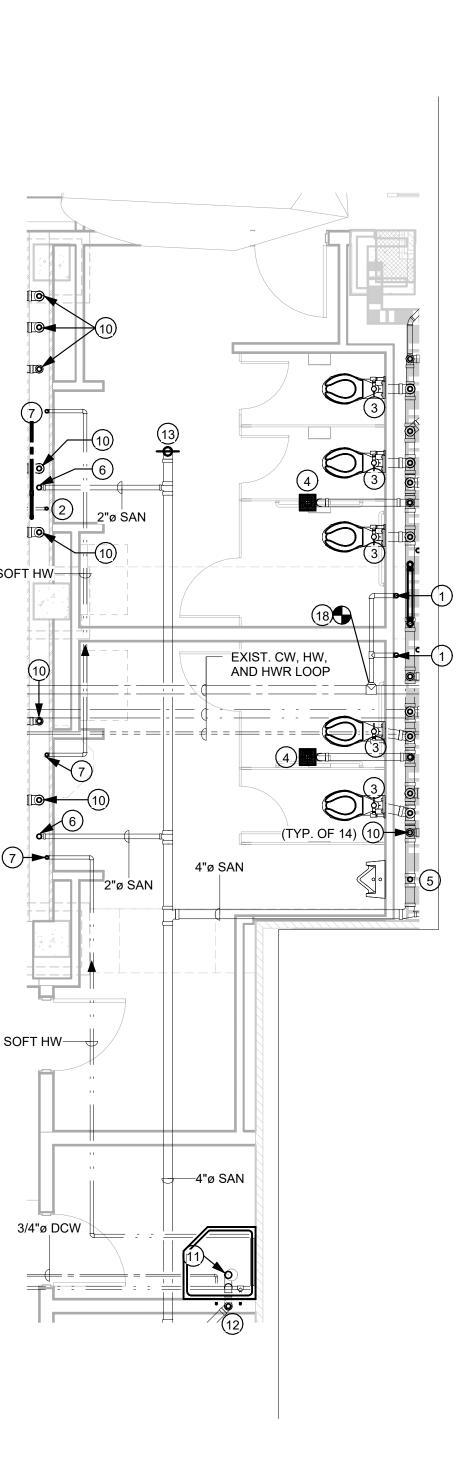
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- A. REFER TO FOOD SERVICE DRAWINGS FOR ALL PLUMBING CONNECTIONS, SIZES, AND REQUIREMENTS TO FOOD SERVICE EQUIPMENT.
  B. INSTALL A THERMOSTATIC POINT OF USE MIXING VALVE (ASSE 1070 COMPLIANT) WITH INTEGRAL CHECK VALVE PRIOR TO CONNECTION OF HANDWASHING SINKS, LAVATORIES, AND SINKS IN PUBLIC USE SPACES, SET TO 120 DEG F.
- C. ALL KITCHEN EQUIPMENT DRAIN LINES WILL BE INDIRECTLY CONNECTED TO THE WASTE LINES WITH A MINIMUM 2" OR 2X PIPE DIAMETER AIR GAP, WHICHEVER IS GREATER.
  D. PROVIDE SHUT-OFF VALVES ON DOMESTIC HOT AND COLD WATER CONNECTIONS TO ALL FIXTURE
- IN AN ACCESSIBLE LOCATION. E. IF PVC IS ALLOWED FOR UNDERGROUND PIPING, CAST IRON PIPE SHALL BE INSTALLED FOR THE FIRST 25 FT_AFTER ANY DRAIN SERVING ANY WATER HEATING APPLIANCE (120 °F AND HIGHER) BEFORE TRANSITIONING BACK TO PVC. THIS INCLUDES BUT IS NOT LIMITED TO DRAINS ADJACENT TO AND DIRECT CONNECTIONS TO DOMESTIC WATER HEATERS, HEATING WATER BOILERS,
- DISHWASHERS, ETC. F. PROVIDE AN APPROVED BACKFLOW PREVENTION DEVICE ON DISH WASHER RINSE LINES, PRIOR TO ANY FILTER, WATER SOFTENER, ICE MACHINES, SODA MACHINES, TEA/COFFEE URNS, INTEGRAL TO THE MOP SINK FAUCET, INTEGRAL TO ALL MIXING VALVES, AND INTEGRAL TO HOSE BIBS. LOCATE BACKFLOW PREVENTION DEVICE 6" ABOVE THE OVERFLOW RIM AND AFTER LAST SHUTOFF VALVE TO EQUIPMENT. ROUTE DRAIN LINE FROM BACKFLOW PREVENTION DEVICE TO NEAREST DRAIN WITH AN AIR GAP.
- G. PROVIDE CHECK VALVE EQUAL TO WATTS SERIES LF601 CHECK VALVE ON THE HOT AND COLD WATER SUPPLY LINES TO THE FOLLOWING PIECES OF EQUIPMENT TO PREVENT MIGRATION OF HOT AND COLD WATER INTO OPPOSITE LINES: PRE-RINSE SPRAYER FAUCETS, MOP SINK, AND KETTLE FAUCETS. FEED WATER OVERHEAD AND MOUNT CHECK VALVE ABOVE ACCESSIBLE CEILING.
- H. ALL NEW AND EXISTING PVC PIPING WITHIN THE PROJECT SCOPE EXTENTS SHALL BE FIRE WRAPPED BOTH ABOVE AND BELOW GRADE PER UNT STANDARDS.
  I. ONCE NEW CIRCULATED HOT WATER LOOP IS INSTALLED, CONTRACTOR IS TO ENSURE PROPER BALANCE BETWEEN NEW AND EXISTING CIRCULATED HOT WATER LOOP SYSTEMS SERVING THE KITCHEN.

1

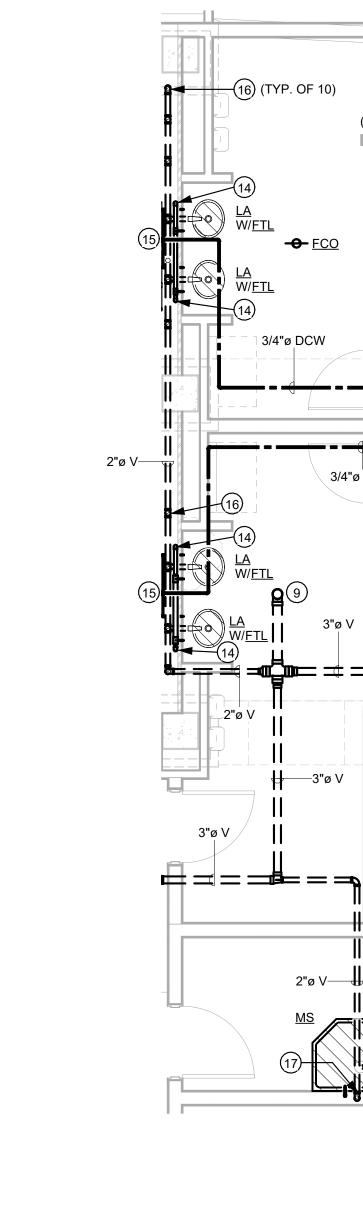
D. SCOTT BROWN 89097 (CENSE) -30-ZOZS ~  $\Delta$ C)2023 Purdy - McGuire Mechanical - Electrical Engine 17300 North Dallas Parkwa Suite 3000 Dallas, TX 75248-1147 Firm Registration # F-151 Tel: 972/239-5357 Fax: 972/239-5231 www.purdy-mcguire.com JOB NO SCOTT BROWN, ROJECT MGR. MITCHELL HENTON HANICAL CHRIS WOODYARI UMBING ECTRICAL JOHN KNOWLES IS DRAWING SHALL NOT BE REPRODUCED OR ANY PROJECT OTHER THAN THE PROJEC TED IN THE TITLE BLOCK, WITHOUT THE TEN CONSENT OF PURDY-McGUIRE, INC LLAS. TX UNIVERSITY OF NORTH TEXAS rawing is an instrument of service and shall nain the property of Treanor. This drawing and the s and ideas contained herein shall not be use oduced, revised, or retained without the expres ten approval of Treanor. Submission or distrib s drawing to meet official or regulatory requireme for other purposes in connection with the project is ot to be construed as publication in derogation of a the rights of Treanor. ISSUE FOR Issue: CONSTRUCTION **JANUARY 30, 202** REVISIONS DESCRIPTION DATE iP302B PLUMBING ENLARGED PLAN reanorHL NO. HE0569.2302.0

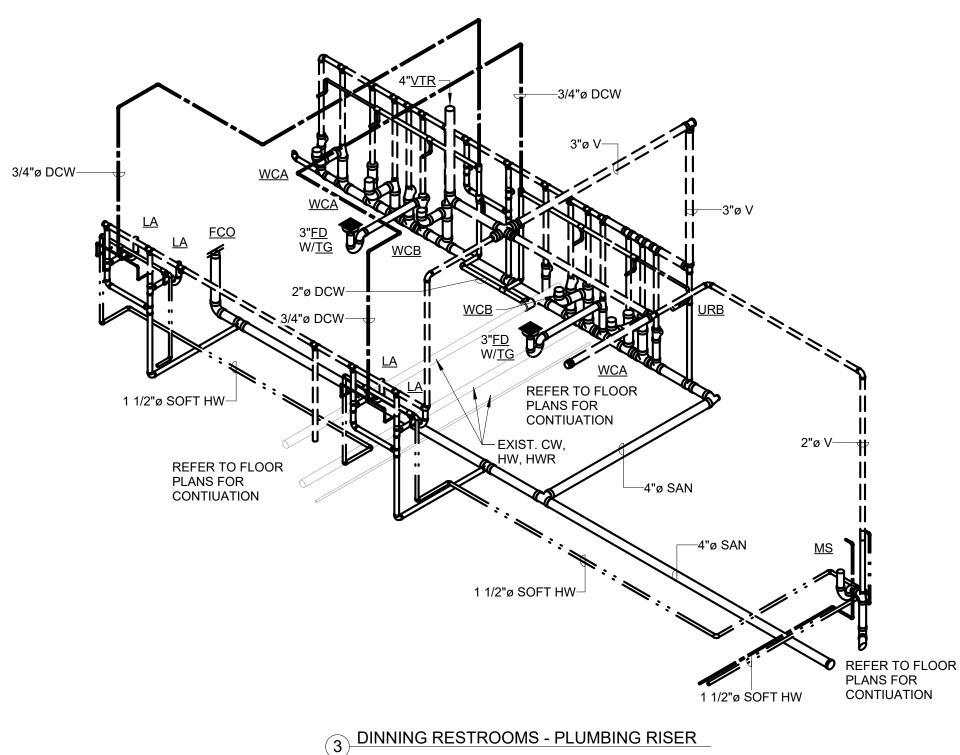




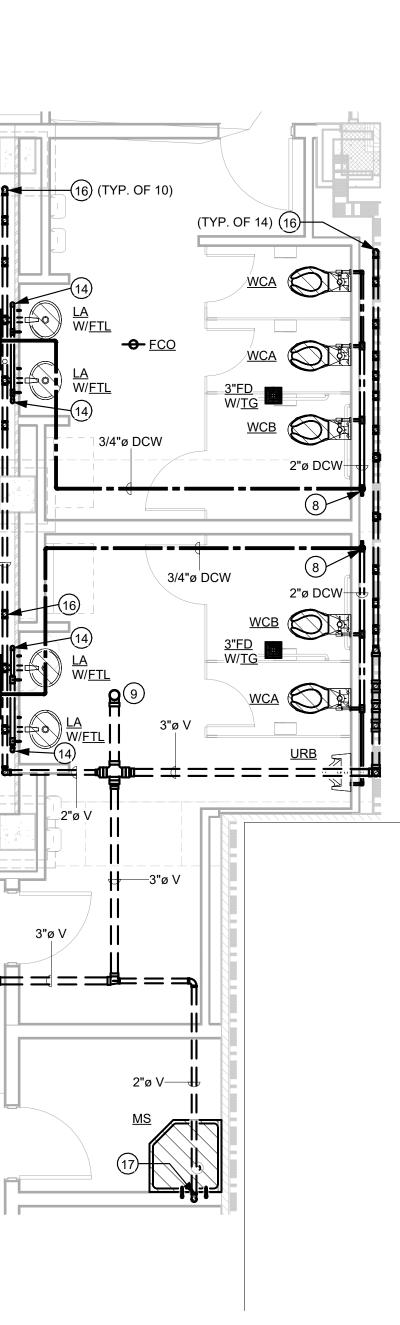








3



2 ENLARGED DINING - RESTROOM - PLUMBING PLAN 1/4" = 1'-0"

2



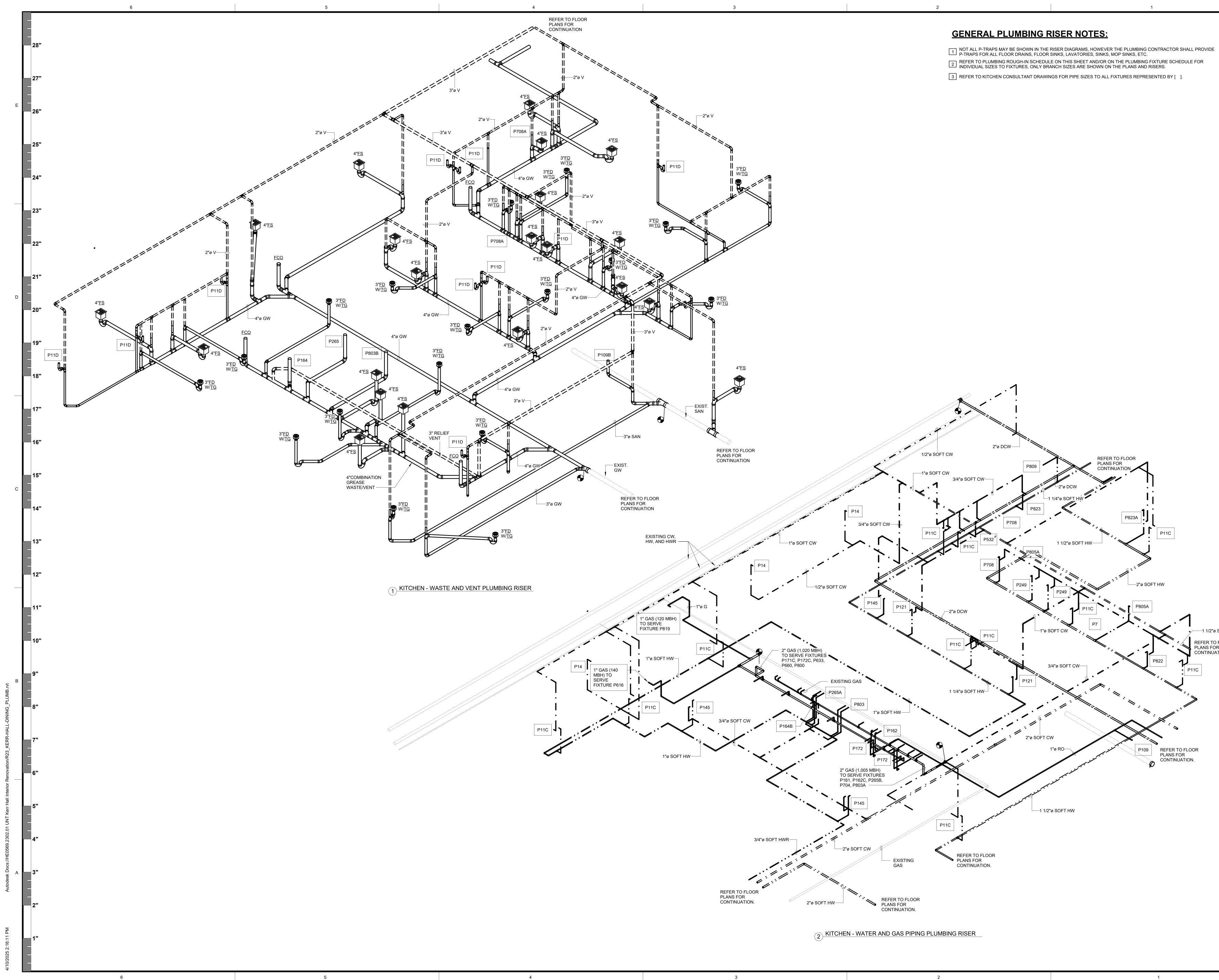
- 1 2" COLD WATER UP WITH ACCESSIBLE SHUT-OFF VALVE TO SERVE RESTROOM PLUMBING FIXTURES.
- 2 1-1/4" CIRCULATED HOT WATER LOOP UP TO SERVE LAVATORIES. 3 4" SANITARY UP TO FLOOR MOUNTED WATER CLOSET.
- 4 3" SANITARY UP TO FLOOR DRAIN. 5 2" SANITARY UP TO URINAL.
- 6 2" SANITARY UP TO SERVE LAVATORIES.
- 7 1-1/2" CIRCULATED HOT WATER LOOP UP TO SERVE LAVATORIES. 8 2" COLD WATER FROM BELOW, UP TO ACCESSIBLE SHUT-OFF VALVE AND EXTEND TO
- SERVE RESTROOM FIXTURES. 9 4" VENT UP THRU ROOF. REFER TO DETAIL 11 ON SHEET IP501 FOR VENT THRU ROOF PIPING INSTALLATION REQUIREMENTS.
- 10 2" VENT UP.
- 11 3" SANITARY UP TO SERVE MOP SINK ON LEVEL ABOVE. 12 2" VENT, 3/4" HOT AND COLD WATER UP TO SERVE MOP SINK KITCHEN FIXTURE.
- 13 SANITARY UP TO FLOOR CLEANOUT (FCO). 14 2" CIRCULATED HOT WATER LOOP FROM BELOW, TO SERVE LAVATORIES.
- 15 3/4" COLD WATER DOWN TO SERVE LAVATORIES.
- 16 2" VENT DOWN. 17 2" VENT DOWN, 3/4" HOT AND COLD WATER FROM BELOW TO SERVE MOP SINK KITCHEN FXITURE.
- 18 CONNECT NEW 2" COLD WATER TO EXISTING COLD WATER. CONTRACTOR TO FIELD VERIFY THE LOCATION, SIZE, ELEVATION OF EXISTING COLD WATER PRIOR TO NEW INSTALLATION.

# PLUMBING GENERAL NOTES:

- A. REFER TO FOOD SERVICE DRAWINGS FOR ALL PLUMBING CONNECTIONS, SIZES, AND REQUIREMENTS TO FOOD SERVICE EQUIPMENT.
- B. INSTALL A THERMOSTATIC POINT OF USE MIXING VALVE (ASSE 1070 COMPLIANT) WITH INTEGRAL CHECK VALVE PRIOR TO CONNECTION OF HANDWASHING SINKS, LAVATORIES, AND SINKS IN PUBLIC USE SPACES, SET TO 120 DEG F. C. PROVIDE SHUT-OFF VALVES ON DOMESTIC HOT AND COLD WATER CONNECTIONS TO ALL FIXTURE
- IN AN ACCESSIBLE LOCATION. D. IF PVC IS ALLOWED FOR UNDERGROUND PIPING, CAST IRON PIPE SHALL BE INSTALLED FOR THE FIRST 25 FT_AFTER ANY DRAIN SERVING ANY WATER HEATING APPLIANCE (120 °F AND HIGHER) BEFORE TRANSITIONING BACK TO PVC. THIS INCLUDES BUT IS NOT LIMITED TO DRAINS ADJACENT
- TO AND DIRECT CONNECTIONS TO DOMESTIC WATER HEATERS, HEATING WATER BOILERS, DISHWASHERS, ETC. ALL NEW AND EXISTING PVC PIPING WITHIN THE PROJECT SCOPE EXTENTS SHALL BE FIRE WRAPPED BOTH ABOVE AND BELOW GRADE PER UNT STANDARDS.
- F. ONCE NEW CIRCULATED HOT WATER LOOP IS INSTALLED, CONTRACTOR IS TO ENSURE PROPER BALANCE BETWEEN NEW AND EXISTING CIRCULATED HOT WATER LOOP SYSTEMS SERVING THE KITCHEN.

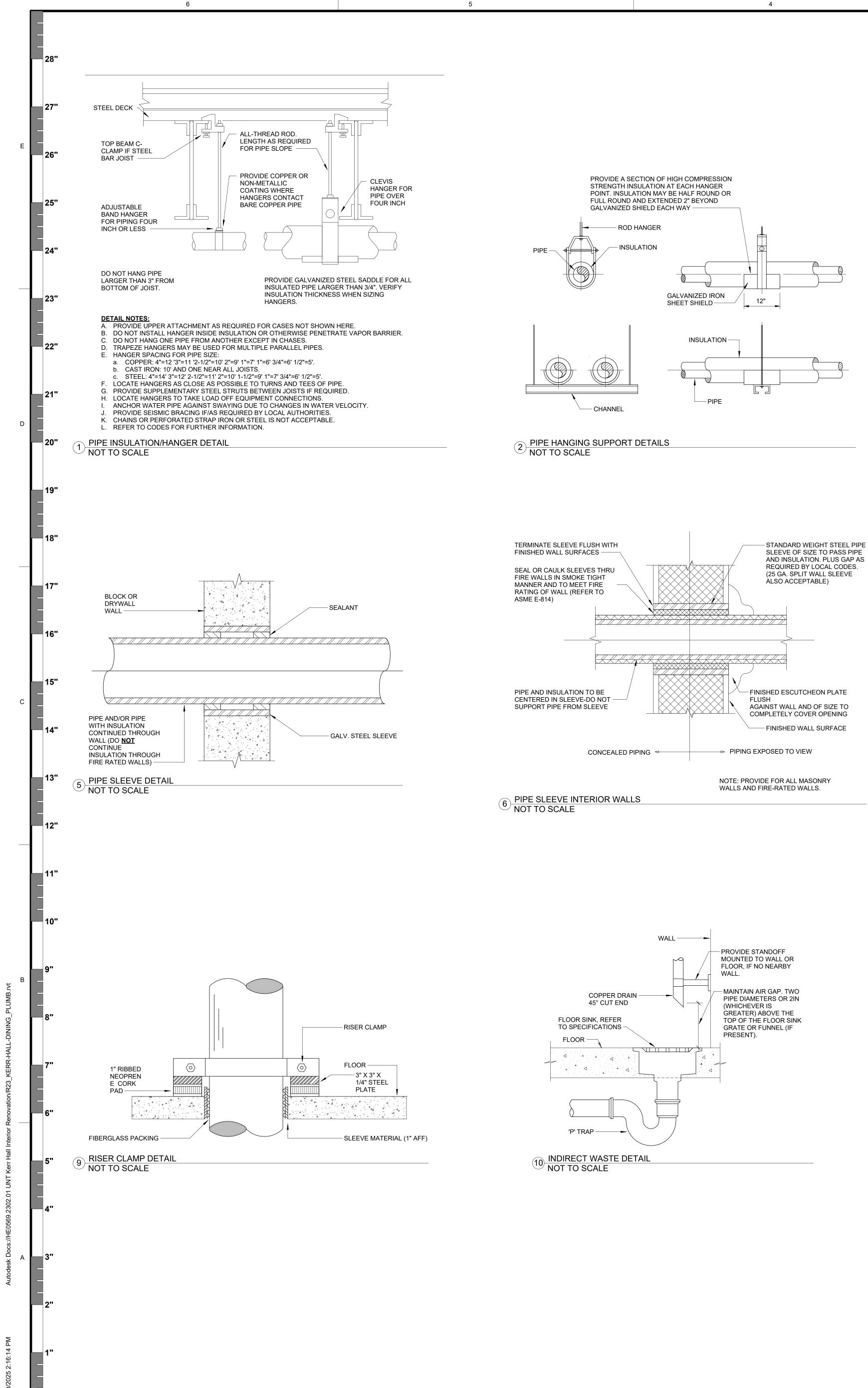
<u>PLUMBING</u>	ROU	<u>GH-</u>	N S	<u>ZES</u>
DECION	ROUGH	-IN CON	NECTION	I SIZES
DESIGN.	DCW	DHW	SAN	VENT
WCA	REF: FVW	-	4"	2"
WCB (ADA)	REF: FVW	-	4"	2"
FVW	1"	-	-	-
URA / URB(ADA)	REF: FVU	-	2"	1-1/2"
FVU	3/4"	-	-	-
LA	REF: FTL	REF:F TL	2"	1-1/2"
FTL	1/2"	1/2"	-	-
MS	REF: FTM	REF: FTM	3"	2"
FTM	3/4"	3/4"	-	-
EWC	1/2"	-	2"	1-1/2"
HD	-	-	REF: PLANS	REF: PLANS
FD	-	-	3"	2"
FS	-	-	4"	2"
FCO	-	-	REF: PLANS	-
WCO	-	-	REF: PLANS	-
WMB	1/2"	1/2"	2"	2"
HSA	REF: PLANS	REF: PLANS	-	-
VTR	-	-	-	REF: PLANS
TG	-	-	REF: FDx	-
AG	-	-	REF: EQUIP MENT	-
BFP	REF: PLANS	REF: PLANS	VARIES	-
RPZ-S	REF: PLANS	REF: PLANS	-	-
TMV	REF: PLANS	REF: PLANS	-	-
TMV ACCEPTABLE	REF: PLANS	REF: PLANS	-	-

D. SCOTT BROWN 1. 88 1. 88 1. 10 1. 10	
2554 Elm Street, Suite 200 Dallas, TX 75226 Office: 214.310.1018 www.TreanorHL.com	E
C 2023       Purdy - McGuire         Mechanical - Electrical Engineers         Machanical - Electrical Engineers         17300 North Dallas Parkway         Suite 3000         Dallas, TX 75248-1147         Firm Registration # F-1511         Tel: 972/239-5357         Fax: 972/239-5321         www.purdy-mcguire.com         PMI JOB NO.         PROJECT MGR.         SCOTT BROWN,         MITCHELL HENTON         PLUMBING         CHRIS WOODYARD         ELECTRICAL         JOHN KNOWLES         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	D
OF NORTH TEXAS LL INTERIOR RENOVATION	С
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<b>IP303B</b> PLUMBING ENLARGED PLANS AND RISERS	

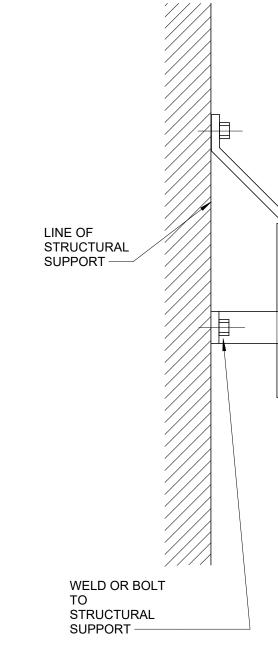


•/____1 1/2"ø SOFT CW REFER TO FLOOR PLANS FOR CONTINUATION.

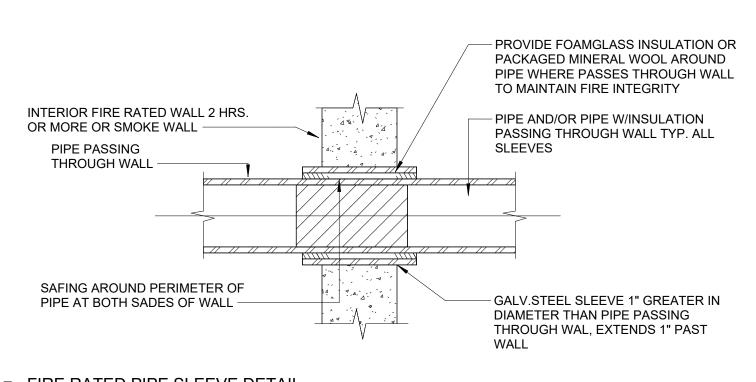
X D. SCOTT BROWN 89097 CENSED. 1-30-2025  $\curvearrowright$  $\overline{\phantom{a}}$ C 2023 Purdy - McGuire Mechanical - Electrical Enginee 17300 North Dallas Parkw Suite 3000 Dallas, TX 75248-1147 Firm Registration # F-1511 Tel: 972/239-5357 Fax: 972/239-5231 www.purdy-mcguire.com PMI JOB NO. PROJECT MGR. 23037.002 SCOTT BROWN, MITCHELL HENTON MITCHELL HENTON CHRIS WOODYARD JOHN KNOWLES CHANICAL PLUMBING ELECTRICAL 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. ALLAS, TX 7 7 Ш  $\sim$ S  $\frown$ Ш  $\frown$ R O 7  $\mathbf{O}$ _ S S Ŷ ap 62 Ш Í N N  $\leq$  $\mathfrak{C}$  $\overline{}$ , 14 De UNIVERSITY OF NORTH TEXAS This drawing is an instrument of service and shall remain the property of Treanor. This drawing and the concepts and ideas contained herein shall not be used, reproduced, revised, or retained without the express ritten approval of Treanor. Submission or distribution this drawing to meet official or regulatory requirements or for other purposes in connection with the project is not to be construed as publication in derogation of any the rights of Treanor. ISSUE FOR CONSTRUCTION JANUARY 30, 2025 REVISIONS NO DESCRIPTION DATE iP401 PLUMBING RISERS TreanorHL NO. HE0569.2302.01

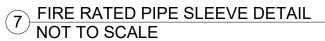


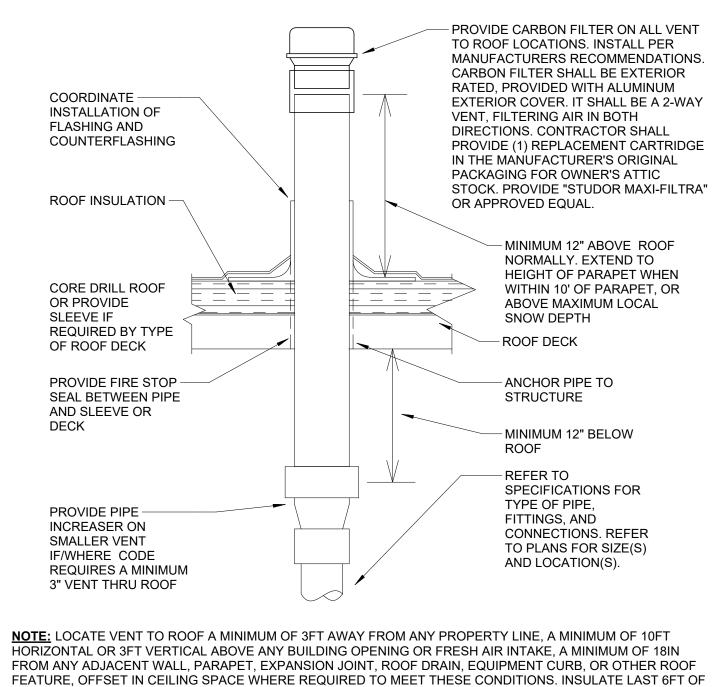
6



**PIPING SUPPORT** NOT TO SCALE







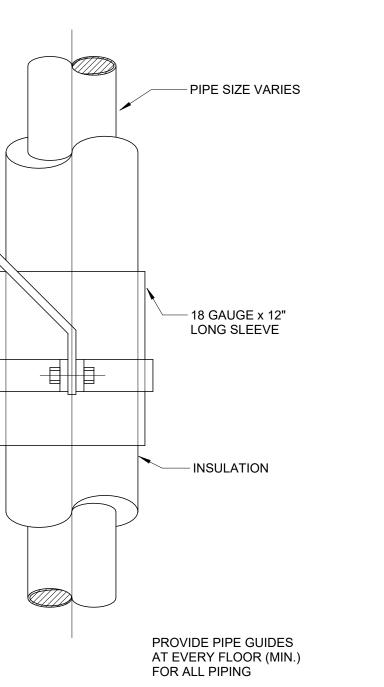
VENT PIPE INSIDE THE BUILDING PER SPECIFICATIONS. REFER TO LOCAL CODES FOR OTHER VENT

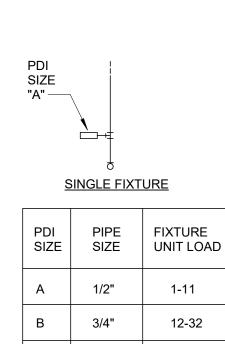
VENT THRU ROOF DETAIL [/] NOT TO SCALE

4

3

TERMINATION REQUIREMENTS.





1"

1-1/4"

1-1/2"

2"

33-60

61-113

114-154

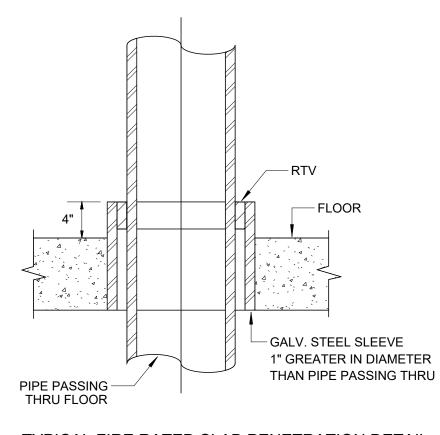
154-330

### MULTIPLE FIXTURES

FIXTURE UNIT TABUL	ATION	
FIXTURE	COLD	НОТ
VALVE WATER CLOSET	10	
TANK WATER CLOSET	5	
URINAL	5	
LAVATORY/SINK	1.5	1.5
JANITOR SINK	3	3
SHOWER/BATHTUB	2	2

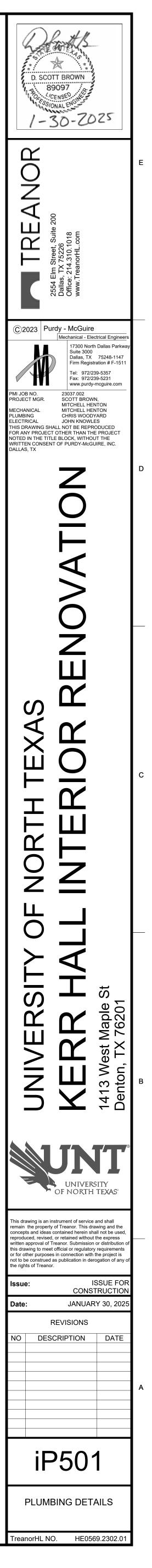
PC TO PROVIDE WATER HAMMER ARRESTORS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND 0-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

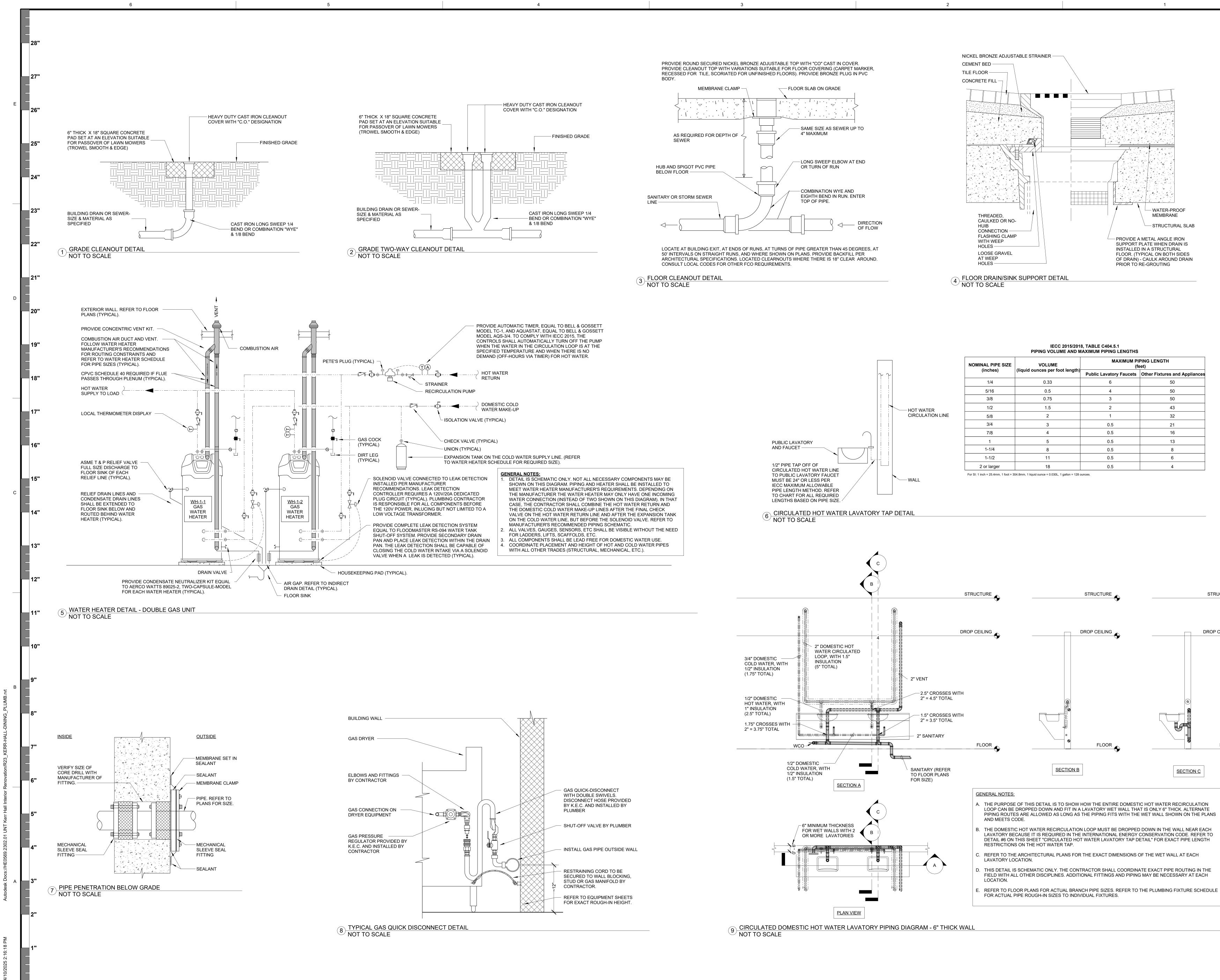
WATER HAMMER ARRESTOR NOT TO SCALE

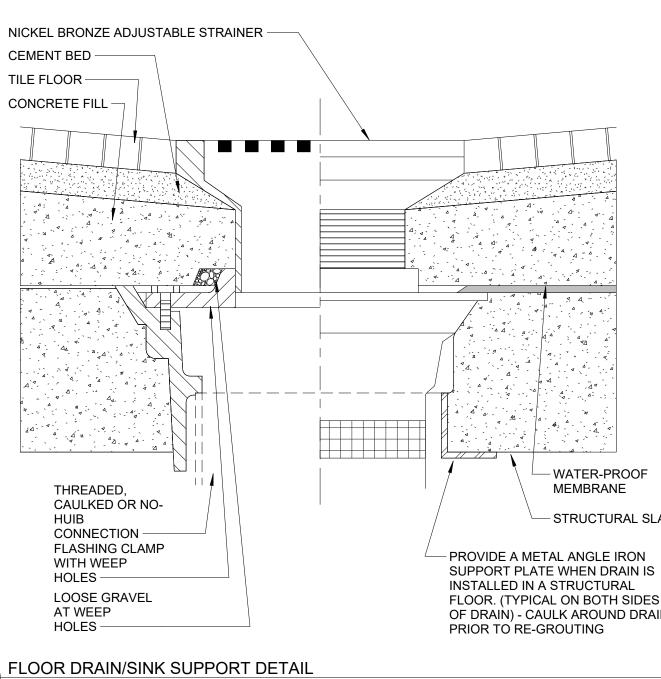


TYPICAL FIRE RATED SLAB PENETRATION DETAIL NOT TO SCALE

1



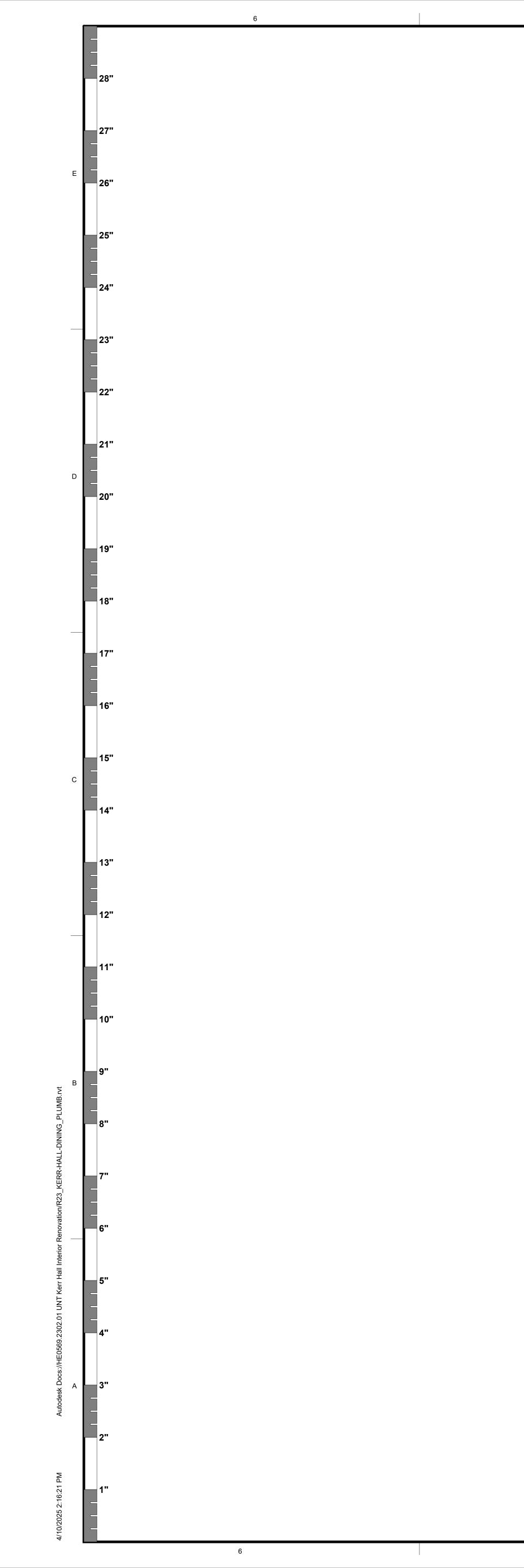




D. SCOTT BROWN B9097 CENSED 1-30-Z0Z5	
2554 Elm Street, Suite 200 Dallas, TX 75226 Office: 214.310.1018 www.TreanorHL.com	E
C 2023Purdy - McGuireMechanical - Electrical EngineersMechanical - Electrical Engineers17300 North Dallas Parkway Suite 3000 Dallas, TX 75248-1147 Firm Registration # F-1511Tel 972/239-5357 Fax: 972/239-5231 ww.purdy-mcguire.comPMI JOB NO.23037.02PROJECT MGR.23037.002PROJECT MGR.SCOTT BROWN, MITCHELL HENTON PLUMBINGMECHANICALMITCHELL HENTON MITCHELL HENTON PLUMBING 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, TXZZ	D
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DF NORTH TEXAS L INTERIOR REN	с
UNIVERSITY ( KERR HAL 1413 West Maple St Denton, TX 76201	в
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iP502 PLUMBING DETAILS TreanorHL NO. HE0569.2302.01	

STRUCTURE DROP CEILING

FLOOR



		OTODAOE		AVERAGE GROUND	DEODEE	MINIMUM		ELECTRIC	AL			NA	TURAL GA	S		PHYSIC	AL	BAS	IS OF DESIGN	
DESIGNATION	TYPE SERVES	CAPACITY (GALLONS)		WATER (°F) (ENTERING WATER TEMPERATURE)	DICE	(I FAVING WATER		VOLTAGE F	PHASE	FULL LOAD AMPS	INPUT (MBH)	OUTPUT (MBH)		GAS CONNETION	EFFICIENCY	DIMENSIONS	WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
WH-1-1	NATURAL GAS KITCHEN AND DINNING HOT WATER FIXTURES	100	294 GPH	62 - 67	80	140	600	120	1	5	199	114	4	GAS INLET PIPE SIZE: 1-1/4" PRESSURE: 7-14" W.C.	97%	28" DIAMETER 76" HEIGHT	553	A.O. SMITH	BTH-199A MXI CYCLONE	NOTE 1,3,4
WH-1-2	NATURAL GAS KITCHEN AND DINNING HOT WATER FIXTURES	100	294 GPH	62 - 67	80	140	600	120	1	5	199	114	4	GAS INLET PIPE SIZE: 1-1/4" PRESSURE: 7-14" W.C.	97%	28" DIAMETER 76" HEIGHT	553	A.O. SMITH	BTH-199A MXI CYCLONE	NOTE 1,3,4

B EQUIPMENT SHALL BE INSTALLED TO MEET ALL RECOMMENDATIONS OF THE MANUFACTURERS, MANUFACTURERS PIPING DIAGRAM, ETC. C WATER HEATER SHALL BE NSF61 CERTIFIED LEAD FREE, FOR USE IN A DOMESTIC WATER SYSTEM. D SUBJECT TO COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THE SCHEDULE AND NOTES ABOVE, EQUAL MANUFACTURERS INCLUDE THE FOLLOWING: A. CHRONOMITE LABORATORIES, INC.

B. EEMAX, INC.

C. RHEEM WATER HEATER DIV.; RHEEM MANUFACTURING COMPANY D. RUUD WATER HEATER DIV., RUUD MANUFACTURING COMPANY

E. BRADFORD WHITE CORPORATION

F. A.O. SMITH WATER PRODUCTS G. STATE INDUSTRIES

H. LOCHINVAR I. PVI

E ALL SUBSTITUTIONS MUST BE APPROVED, IN WRITING, PRIOR TO BID. OTES:

1 PROVIDE SOLENOID VALVE AND LEAK DETECTION. COORDINATE CONNECTION WITH ELECTRICAL CONTRACTOR. 2 FOR GAS WATER HEATERS, PACKAGED UNITS SHALL BE WITH ALL STANDARD FEATURES AND SHALL INCLUDE LOW-NOX OPERATION.

3 FOR GAS WATER HEATERS, FIRING CONTROL SYSTEM SHALL BE 5:1 TURNDOWN WITH CATEGORY IV VENTING. 4 FOR GAS WATER HEATERS, PROVIDE CONCENTRIC VENTING PIPING KIT TO MEET THE CAT IV VENTING REQUIREMENTS FOR THE UNITS.

DE	SIG.	
R	P-1	WF
GEN	ERAL I	NOTES
1	REFE	R TO S
2	SUBJ	ECT TO
3	ALL S	UBSTI
4	ALL P	UMPS
5		IDE M
	INFO	RMATIC
6	PROV	IDE AU

DESI	GNATION	TYPE	SERVES
	ET-1	BLADDER	WH-1-1 & WH
GENE	RAL NOT	ES (APPLIES TO ALL	.):
Α	REFER T	O SPECIFICATIONS	FOR ADDITIC
В	EQUIPM	ENT SHALL BE INSTA	ALLED TO ME
С	EXPANS	ION TANK SHALL BE	ASME RATED
D	EXPANS	ION TANK SHALL BE	NSF61 CERT
E	PLUMBIN	IG CONTRACTOR SH	HALL SET THE
	CONTRA	CTOR SHALL FOLLC	W MANUFAC
F	SUBJEC	T TO COMPLIANCE V	VITH ALL REC
	A. WATT	S	
	B. AMTR	OL	
	C. BELL	& GOSSETT (B&G)	
	D. SAME	MANUFACTURER A	S THE SPECIF
G	ALL SUB	STITUTIONS MUST E	BE APPROVED
NOTE	S:		

3

1 NOT USED.

### WATER SOFTENER SCHEDULE **BASIS OF DESIGN** SYSTEM PERFO GALLONS PEAK GALLONSPEAK<br/>PER DAYGRAIN EXTRACTINGINCO<br/>CAPACITY BETWEEN(ESTIMATE(ESTIMATECAPACITY BETWEENWA DESIGNATION SERVES LOCATION MANUFACTURER MODEL REGEN. D) D) KITCHEN WATER CONTROL STORAGE CLOSET WS-1 KITCHEN FIXTURES LF-150-MR 1,750 GPD 40 GPM 150,000 12 CORPORATION GENERAL NOTES (APPLIES TO ALL): REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. THE CONTRACTOR SHALL INCLUDE A WATER TEST IN THEIR SCOPE. THE WATER SOFTENER SELECTION SHOWN IN THIS SCHEDULE IS PRELIMINARY ONLY, PENDING THE WATER TEST, AND SHALL NOT BE USED FOR CONSTRUCTION. THE WATER TEST SHALL BE PERFORMED AS SOON AS POSSIBLE, AFTER THE WATER MAIN HAS BEEN TAPPED INTO FOR THE NEW BUILDING DURING CONSTRUCTION. THE RESULTS OF THE WATER TEST SHALL BE GIVEN TO THE ENGINEER, ARCHITECT, OWNER, AND WATER TREATMENT MANUFACTURER 'S REPRESENTATIVE FOR REVIEW AND UPDATED WATER SOFTENER SELECTION. EQUIPMENT SHALL BE INSTALLED TO MEET ALL RECOMMENDATIONS OF THE MANUFACTURERS, MANUFACTURERS PIPING DIAGRAM, ETC. WATER SOFTENER SYSTEM SHALL BE NSF61 CERTIFIED LEAD FREE, FOR USE IN A DOMESTIC WATER SYSTEM. WATER SOFTENING SYSTEM SHALL MEET ALL THE REQUIREMENTS LISTED IN THE FOOD SERVICE DOCUMENTS. WATER SOFTENER IS NOT DESIGNED FOR PRESSURES OVER 125 PSI AND TEMPERATURES OVER 120 DEGREES. IF WATER SOFTENER IS PLACED IN CONDITIONS OVER THE DESIGN LIMITS, NOTIFY ENGINEER IMMIDIATELY. SUBJECT TO COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THE SCHEDULE AND NOTES ABOVE, EQUAL MANUFACTURERS INCLUDE THE FOLLOWING: A. CULLIGAN B. QUANTROL C. WATER CONTROL CORPORATION D. WATER KING E. WATTS ALL SUBSTITUTIONS MUST BE APPROVED, IN WRITING, PRIOR TO BID. DTES: PROVIDE COMPLETE FACTORY ASSEMBLED PRE-PLUMBED PACKAGE INSTALLED ON A LIFTABLE POWDER COATED STEEL SKID. PACKAGE TO INCLUDE ALL TANKS, PIPING, VALVES, CONTROLLERS, AND CORDS. PROVIDE BRINE RECLAMATION SYSTEM TO EXTEND LIFE OR BRINE STORAGE AND REDUCE SALT AND WATER DRAINAGE. PROVIDE A GFCI, 120V, NEMA 5-20R RECEPTACLE FOR EACH RESIN/MINERAL TANK AND AN ADDITIONAL GFCI RECEPTACLE FOR GENERAL MAINTENANCE. ALL RECEPTACLE FOR GENERAL MAINTENANCE. ALL RECEPTACLES SHALL BE ON A DEDICATED CIRCUIT. COORDINATE EXACT LOCATION REQUIRED WITH ELECTRICAL CONTRACTOR BASED ON INSTALLATION LOCATION AND CORD LENGTH. PROVIDE COST TO OWNER AT BID FOR A 1 YEAR FULL MAINTENANCE CONTRACT BY SERVICE TECHNICIAN OF WATER SOFTENERS MANUFACTURER INCLUDING PREVENTATIVE MAINTENANCE AS REQUIRED FOR PROPER OPERATION OF EQUIPMENT. AT PROJECT HANDOVER PLUMBING CONTRACTOR IS RESPONSIBLE TO FILL BRINE TANKS WITH WATER, SALT, AND ALL OTHER REQUIRED CONSUMABLES. THE WATER SOFTENER SPECIFIED HAS A PRESSURE DROP OF 25 PSI AT PEAK FLOW.

4

	DON	<u>IESTIC</u>	НОТ	WA [.]	TER	RECI	RCL	JLATION PUN	IP SCHEDULE			
0			HEAD		мото	OR DATA			BASIS OF DESIGN	ELECTR	RICAL	
SERVES	ТҮРЕ	GPM	(FT)	EFF (%)	HP	RPM	VFD	MANUFACTURER	MODEL	VOLT	PH	NOTES
H-1-1 & WH-1-2	POTABLE WATER	6	30	XX	1/6	3300	YES	BELL & GOSSETT (B&G)	PL-36	120	1	ALL
6 (APPLIES TO ALI	_):											

SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS TO COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THE SCHEDULE AND SPECIFICATIONS, APPROVED MANUFACTURERS ARE: B&G, PACO/GRUNDFOS, TACO, ARMSTRONG.

FITUTIONS SHALL BE APPROVED, IN WRITING, PRIOR TO BID. S IN POTABLE WATER APPLICATIONS SHALL BE NSF 61 CERTIFIED LEAD FREE AND OF ALL BRONZE OR STAINLESS STEEL CONSTRUCTION.

MOTOR RATED CONNECTION SWITCH (FOR HARDWIRED PUMPS) OR A RECEPTACLE (FOR PLUG-IN PUMPS) AT UNIT FOR LOCAL MEANS OF DISCONNECT. REFER TO ELECTRICAL PLANS FOR MORE

AUTOMATIC TIMER KIT AND AQUASTAT TO MEET IECC 2015+ COMPLIANCE.

# **EXPANSION TANK SCHEDULE**

	TANK TOTAL	TANK ACCEPTANCE	MAXIMUM	MAXIMUM OPPERATING	Р	HYSICAL	MOUNTING	BASIS OF D	ESIGN	NOTES
3	VOLUME (GAL)	VOLUME (GAL)	PRESSURE (PSI)	TEMPERATURE (°F)	DIMENSIONS	FILLED WEIGHT (LBS)	MOUNTING	MANUFACTURER	MODEL	NOTES
VH-1-2	15	10.0	150	240	16" DIAMETER 24" HEIGHT	64	FLOOR MOUNTED	WATTS	DELTA-30	

IONAL REQUIREMENTS.

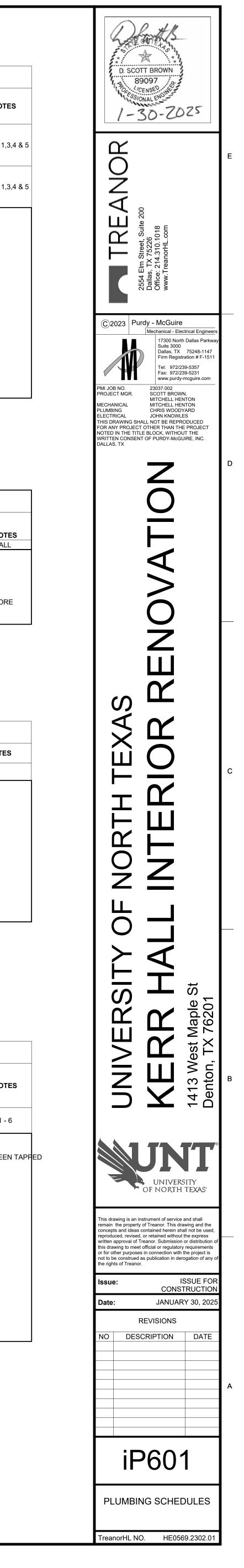
MEET ALL RECOMMENDATIONS OF THE MANUFACTURERS, MANUFACTURERS PIPING DIAGRAM, ETC.

TIFIED LEAD FREE, FOR USE IN A DOMESTIC WATER SYSTEM. E EXPANSION TANK PRESSURE CHARGE IN THE FIELD BASED ON THE PRESSURE OF THE COMPLETED SYSTEM FULLY INSTALLED WITH INCOMING CITY PRESSURE CONNECTED. PLUMBING CTURERS INSTRUCTIONS FOR SETTING THIS CHARGE IN THE FIELD. THE EXPANSION TANK SHALL NOT BE LEFT AT THE FACTORY PRE-CHARGE SETTING OF 40 PSI. EQUIREMENTS LISTED IN THE SCHEDULE AND NOTES ABOVE, EQUAL MANUFACTURERS INCLUDE THE FOLLOWING:

CIFIED WATER HEATER VED, IN WRITING, PRIOR TO BID.

ORMANC	E				PHYSICAL				ELECT	RICAL		
ICOMING WATER ARDNESS	VOLUME BETWEEN REGENERATION	DAYS BETWEEN REGENERATION		NUMBER / SIZE OF MINERAL TANKS	NUMBER / SIZE OF MINERAL TANKS	TOTAL SYSTEM DIMENSIONS	TOTAL WEIGHT OF SALT	FULL LOAD AMPS / WATTS	VOLTS	PHASE	CIRCUIT BREAKER SIZE	NOTES
12 GPG	11,250 G	6.4	2" / 2"	1 TANKS / 16" DIA.	1 TANK / 24" DIA.	44" W x 24" D X 78" H	625 LBS	1.3	120	1	(3) 20A/1P	1 - 6

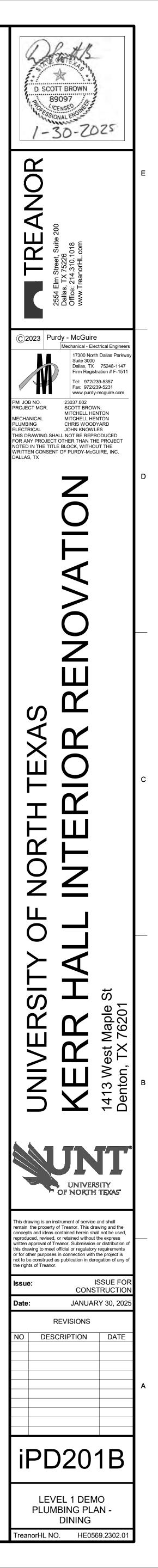
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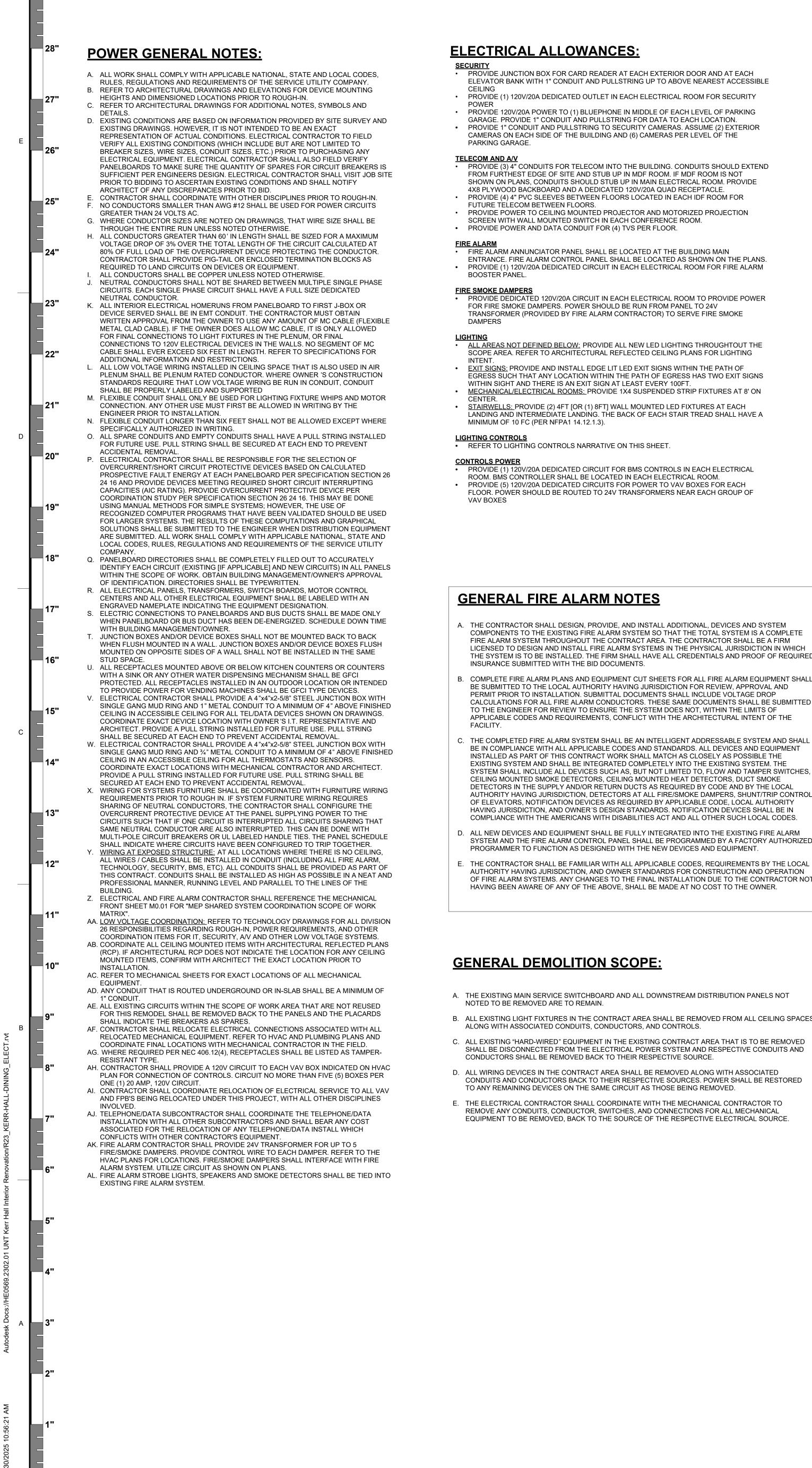




### KEYED NOTES - SHEET IPD2.01B

- REMOVE EXISTING WATER COLEST/FLUSH VALVE AND STORE FOR RE-USE. ALL PIPING NOT BEING RE-USED SHALL BE REMOVED TO INSIDE WALL AND CAPPED.
   REMOVE EXISTING LAWATODY/FALICET AND ASSOCIATED DIDING. DETUDINUM/CED
- REMOVE EXISTING LAVATORY/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.
- REMOVED TO INSIDE WALL AND CAPPED.
   REMOVE EXISTING SINK/FAUCET AND ASSOCIATED PIPING. RETURN UNUSED FIXTURES TO BASE BUILDING STOCK. ALL PIPING NOT BEING RE-USED SHALL BE REMOVED AND CAPPED AT BRANCH CONNECTION TO EXISTING PLUMBING SERVING EXISTING FIXTURE.





 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 • PROVIDE (1) 120V/20A DEDICATED OUTLET IN EACH ELECTRICAL ROOM FOR SECURITY PROVIDE 120V/20A POWER TO (1) BLUEPHONE 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

 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 QUAD RECEPTACLE. PROVIDE (4) 4" PVC SLEEVES BETWEEN FLOORS LOCATED IN EACH IDF ROOM FOR PROVIDE POWER TO CEILING MOUNTED PROJECTOR AND MOTORIZED PROJECTION SCREEN WITH WALL MOUNTED SWITCH IN EACH CONFERENCE ROOM.

ENTRANCE. FIRE ALARM CONTROL PANEL SHALL BE LOCATED AS SHOWN ON THE PLANS PROVIDE (1) 120V/20A DEDICATED CIRCUIT IN EACH ELECTRICAL ROOM FOR FIRE ALARM

 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

 ALL AREAS NOT DEFINED BELOW: PROVIDE ALL NEW LED LIGHTING THROUGHTOUT THE SCOPE AREA. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LIGHTING 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 • <u>STAIRWELLS:</u> 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

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

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 FIRM SHALL HAVE ALL CREDENTIALS AND PROOF OF REQUIRED

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

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.

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.

A. THE EXISTING MAIN SERVICE SWITCHBOARD AND ALL DOWNSTREAM DISTRIBUTION PANELS NOT

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 (1) LOCATION, ADDITIONAL MULTI-GANG BOXES SHALL BE STACKED VERTICALLY
- AND THE WIDTH OF THE MULTI-GANGS SHALL BE AS EVEN AS POSSIBLE. EACH DIMMER SWITCH SHALL HAVE A WATTAGE RATING 25% HIGHER THAN THE TOTAL WATTAGE OF ALL LIGHTS TO BE CONTROLLED BY THE DIMMER.
- 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 HARDWARF H. ALL EXIT SIGNS SHALL BE SELF TESTING. ALL EMERGENCY LIGHTING WITH INDIVIDUAL BATTERIES (IF PRESENT IN THE PROJECT) SHALL BE SELF TESTING.
- ALL LIGHT FIXTURES SHALL HAVE SEPARATE GROUNDING CONDUCTORS. INTEGRAL GROUNDING IN LUMINAIRE IS NOT ACCEPTABLE. 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
- PER 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: a. ANY LIGHTING CONTROLS SYSTEM MUST FULLY COMPLY WITH THIS NARRATIVE SEQUENCE OF OPERATIONS TO BE ACCEPTABLE. b. 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 AGEN • THE LIGHT FIXTURES AND LIGHTING CONTROLS SHALL HAVE THE SAME MANUFACTURER REPRESENTATIVE 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, MDF/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-8PM): 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-8PM), 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. SITE LIGHTING NOT BEING USED FOR LIGHTING THE BUILDING FACADE OR LANDSCAPE FEATURES SHALL BE DIMMABLE AND CONTROLLED BY DIMMING RELAYS IN LIGHTING CONTROL PANEL. PROVIDE ADDITIONAL 1"C 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 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 ADD 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

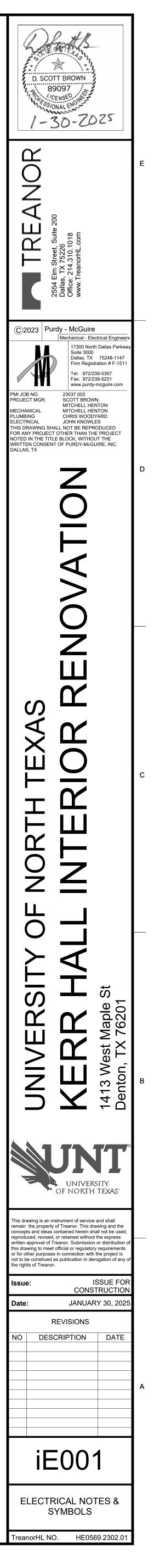
- INTERNATIONAL ENERGY CONSERVATION (IECC) SECTION C408. REFER TO THE APPLICABLE CODES NOTE ON THIS SHEET FOR THE REQUIRED CODE YEAR OF THE IECC. IT IS THE OWNER'S RESPONSIBILITY TO HIRE A COMMISSIONING AUTHORITY T ENSURE ALL REQUIRED COMMISSIONING ACTIVITIES AND REQUIREMENTS ARE MET THE COMMISSIONING 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.

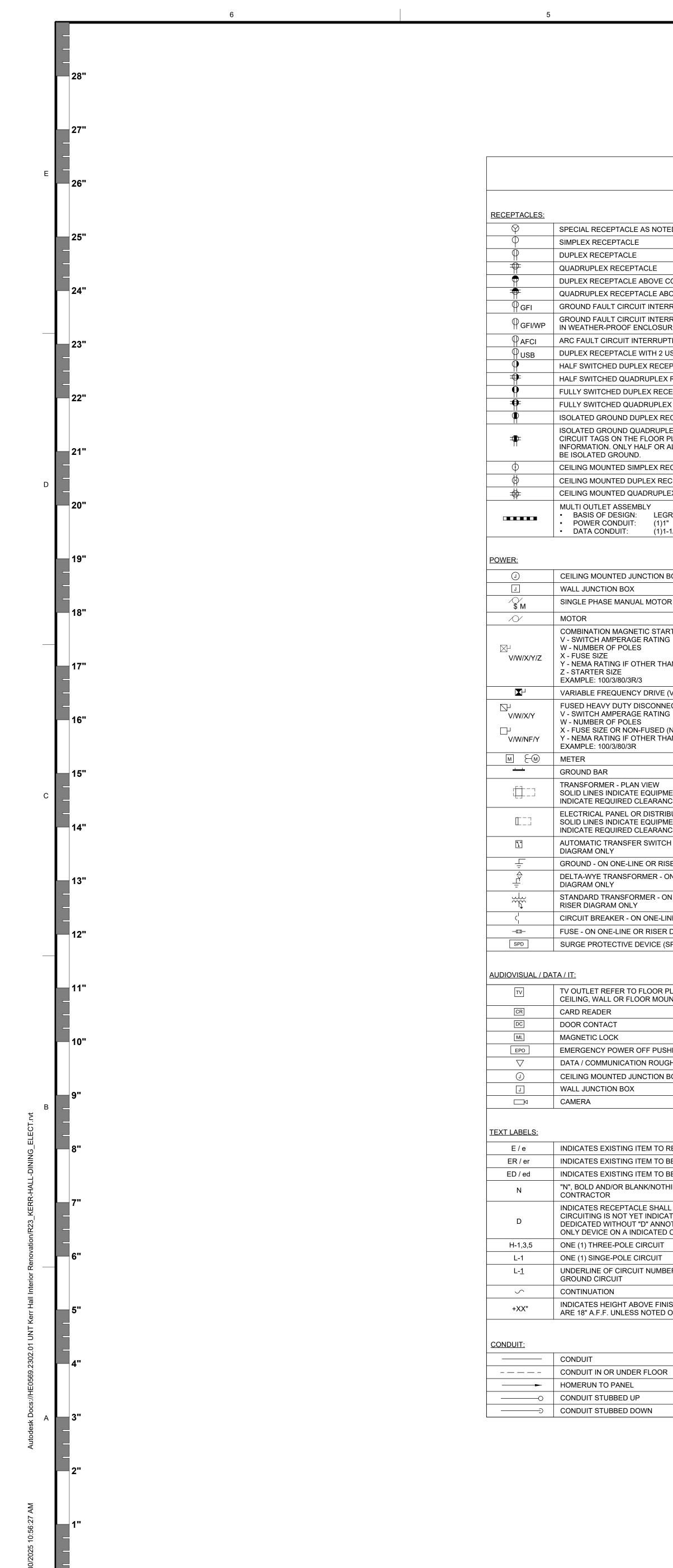
### **ELECTRICAL APPLICABLE CODES**

- 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 GUIDÈLINES CITY OF DENTON LOCAL AMENDMENTS





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# ELECTRICAL SYMBOLS LEGEND

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OR DEVICES:	
	<ul> <li>FLUSH FLOOR POKE-THRU WITH DUPLEX POWER</li> <li>BASIS OF DESIGN: LEGRAND 4AT SERIES</li> <li>POWER CONDUIT: (1) 3/4"</li> </ul>
	FLUSH FLOOR POKE-THRU WITH DUPLEX POWERPLUSCOMMUNICATIONS• BASIS OF DESIGN:• BASIS OF DESIGN:• POWER CONDUIT:• DATA CONDUIT:• (1)1-1/4"
	<ul> <li>FLUSH FLOOR POKE-THRU WITH DUPLEX POWER PLUS COMMUNICATIONS AND AV</li> <li>BASIS OF DESIGN: LEGRAND 6AT SERIES</li> <li>POWER CONDUIT: (1) 3/4"</li> <li>DATA &amp; AV CONDUIT: (1) 1-1/4"</li> </ul>
	<ul> <li>FLUSH FLOOR POKE-THRU WITH QUADRAPLEX POWER</li> <li>BASIS OF DESIGN: LEGRAND 4AT SERIES</li> <li>POWER CONDUIT: (1) 3/4"</li> </ul>
	<ul> <li>FLUSH FLOOR POKE-THRU WITH QUADRAPLEX POWER PLUS COMMUNICATIONS</li> <li>BASIS OF DESIGN: LEGRAND 6AT SERIES</li> <li>POWER CONDUIT: (1) 3/4"</li> <li>DATA CONDUIT: (1)1-1/4"</li> </ul>
	<ul> <li>FLUSH FLOOR POKE-THRU WITH QUADRAPLEX POWER PLUS COMMUNICATIONS AND AV</li> <li>BASIS OF DESIGN: LEGRAND 8AT SERIES</li> <li>POWER CONDUIT: (1) 3/4"</li> <li>DATA &amp; AV CONDUIT: (1) 1-1/4"</li> </ul>
Φ	FLUSH FLOOR DUPLEX IN 'POURED IN PLACE' BOX. BOX SHALL         BE SUITABLE FOR ON-GRADE APPLICATIONS.         • BASIS OF DESIGN:         • POWER CONDUIT:
	FLUSH FLOOR 'POURED IN PLACE' BOX WITH DUPLEX PLUS         COMMUNICATION. BOX SHALL BE SUITABLE FOR ON-GRADE         APPLICATIONS.         • BASIS OF DESIGN:         • POWER CONDUIT:         (1)1"         • DATA CONDUIT:
	FLUSH FLOOR 'POURED IN PLACE' BOX WITH DUPLEX         PLUS COMMUNICATION AND AV. BOX SHALL BE SUITABLE         FOR ON-GRADE APPLICATIONS.         • BASIS OF DESIGN:       LEGRAND EFB45S-OG SERIES         • POWER CONDUIT:       (1)1"         • DATA & AV CONDUIT:       (1) 1-1/4"
	FLUSH FLOOR 'POURED IN PLACE' BOX WITH QUADRAPLEX.         BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS.         • BASIS OF DESIGN:         • POWER CONDUIT:
	FLUSH FLOOR 'POURED IN PLACE' BOX WITH QUADRAPLEX PLUS COMMUNICATION. BOX SHALL BE SUITABLE FOR ON- GRADE APPLICATIONS.• BASIS OF DESIGN:LEGRAND EFB45S-OG SERIES• POWER CONDUIT:(1)1"• DATA CONDUIT:(1)1-1/4"
<b>→ ▼</b> AV	<ul> <li>FLUSH FLOOR 'POURED IN PLACE' BOX WITH QUADRAPLEX PLUS COMMUNICATION AND AV. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS.</li> <li>BASIS OF DESIGN: LEGRAND EFB45S-OG SERIES</li> <li>POWER CONDUIT: (1)1"</li> <li>DATA &amp; AV CONDUIT: (1) 1-1/4"</li> </ul>
WERED FURNIT	<u>'URE:</u>
(FF)	<ul> <li>FURNITURE FEED FLUSH FLOOR POKE-THRU DEVICE WITH 8-WIRE POWER CONNECTION PLUS COMMUNICATIONS FEEDS TO SYSTEMS FURNITURE.</li> <li>BASIS OF DESIGN: LEGRAND 4FFATC15 SERIES</li> <li>POWER CONDUIT: (1)3/4"</li> <li>DATA CONDUIT: (1)1-1/4"</li> </ul>
FF	FURNITURE FEED FLUSH FLOOR 'POURED IN PLACE' BOX DEVICE WITH 8-WIRE POWER CONNECTION PLUS COMMUNICATIONS FEEDS TO SYSTEMS FURNITURE. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS.• BASIS OF DESIGN:LEGRAND RFB2E-OG SERIES BOX WITH 6CFFTC COVER• POWER CONDUIT:(1)1"• DATA CONDUIT:(1)1-1/4"
PD	<ul> <li>WALL MOUNTED DEVICE WITH 8-WIRE POWER CONNECTION</li> <li>PLUS COMMUNICATIONS FEEDS TO SYSTEMS FURNITURE.</li> <li>BASIS OF DESIGN: (2) J-BOXES WITH FACEPLATES</li> <li>POWER CONDUIT: (1)3/4"</li> <li>DATA CONDUIT: (1)1-1/4"</li> </ul>
PP	POWER POLE DEVICE WITH 8-WIRE POWER CONNECTION PLUS COMMUNICATIONS FEEDS TO SYSTEMS FURNITURE. • BASIS OF DESIGN: LEGRAND SERIES
GEND NOTES:	
DIMENSIONS ELECTRICAL IF ONLY THE THIS SHEET, ADDITIONAL S CONTRACTOR PROPER MOU SPECIFIC CEI	BOLS MAY BE USED IN PLANS. MAY DIFFER FROM PLANS. REFER TO FLOOR PLANS AND SCHEDULES FOR ACTUAL SIZES. ELECTRICAL OR LIGHTING SYMBOLS LEGEND IS PRESENT ON REFER TO THE OTHER SHEET (ELECTRICAL OR LIGHTING) FOR SYMBOLS. R IS RESPONSIBLE FOR PROVIDING ALL ACCESSORIES FOR JNTING OF ALL LIGHT FIXTURES AND ELECTRICAL DEVICES IN LING OR WALL CONDITIONS. REFER TO ARCHITECTURAL PLANS

SPECIFIC CEILING OR WALL CONDITIONS. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. REFER TO ARCHITECTURAL PLANS FOR ALL FINISH COLORS.
 <u>FLOOR DEVICE AND POWERED FURNITURE NOTES</u>:
 A. REFER TO SYMBOLS ON THE FLOOR PLANS FOR ADDITIONAL REQUIREMENTS FOR DEVICES (IG, USB, ETC).

- B. A/V AND DATA CONDUITS SHALL BE ROUTED TO ABOVE THE NEAREST ACCESSIBLE CEILING OR TO THE NEAREST IDF/ MDF/ IT ROOM. C. COORDINATE ALL LOW VOLTAGE CONDUIT REQUIREMENTS WITH TECHNOLOGY DRAWINGS AND TECHNOLOGY CONSULTANT.
- D. FOR FURNITURE FEEDS, COORDINATE WIRING CONFIGURATION WITH FURNITURE CONSULTANT (3+1 OR 2+2) PRIOR TO ORDER. CONFIGURATION SHOWN ON THESE DRAWINGS IS FOR PLACEHOLDER ONLY.
- E. REFER TO ARCHITECTURAL PLANS FOR ALL FINISH COLORS. CONTRACTOR SHALL INCLUDE PRICING FOR A PREMIUM FINISH IN THE BASE BID TO BE SELECTED BY THE ARCHITECT. F. SUBJECT TO COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THE SCHEDULE AND NOTES ABOVE, EQUAL MANUFACTURERS INCLUDE THE FOLLOWING: LEGRAND, HUBBELL, FSR INC, LEVITON.
- CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER OF ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES (NEW OR SUBSTITUTES).

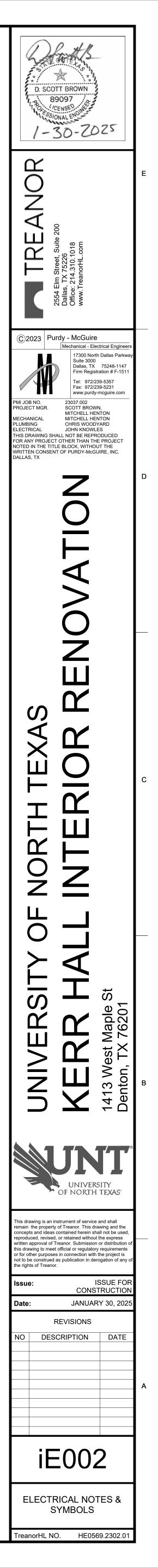
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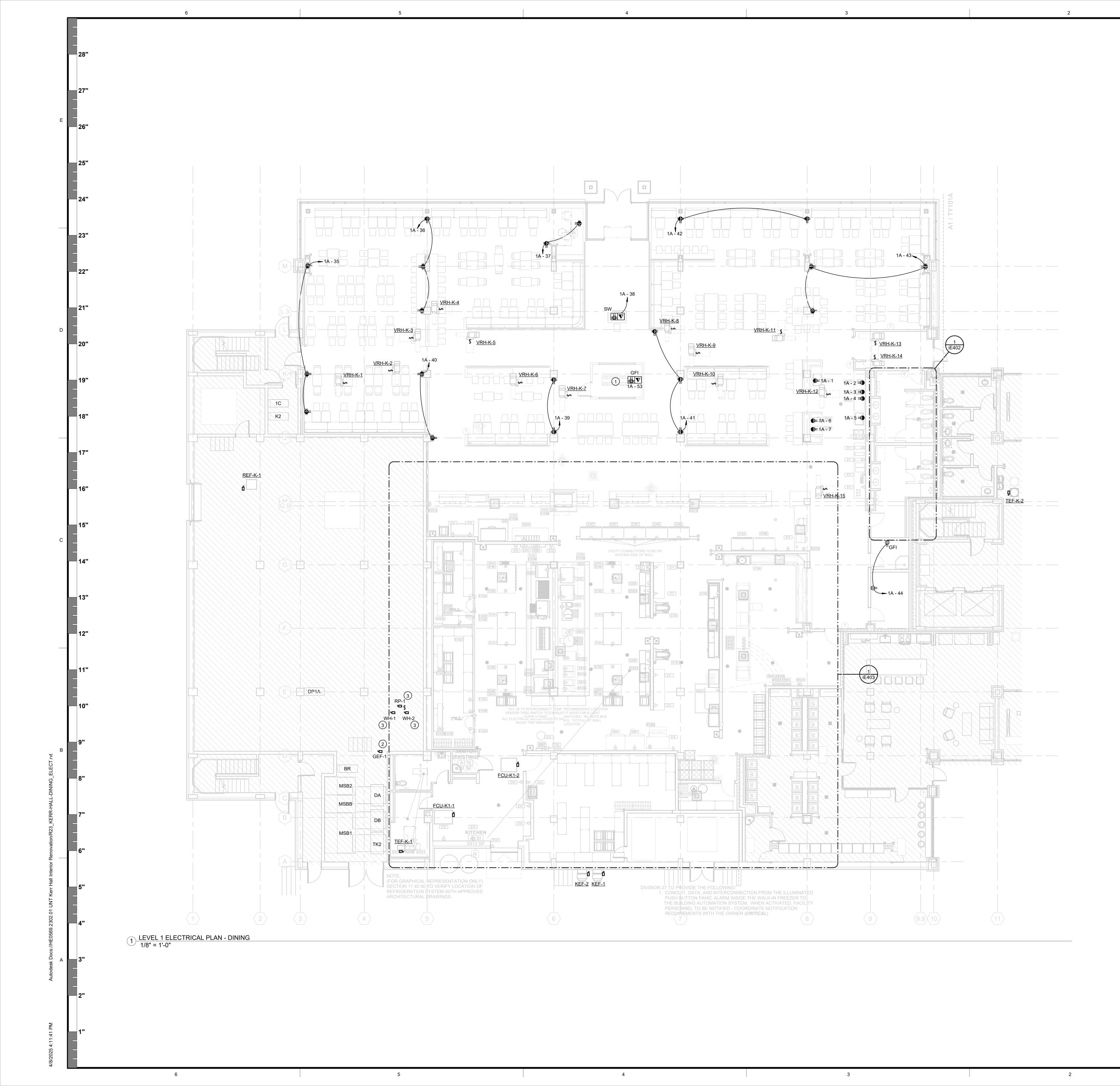
LIC	<b><u>BHTING SYMBOLS LEGEND</u></b>
DS	DAYLIGHT SENSOR DAYLIGHT ZONE
VS OS	WALL MOUNTED VACANCY OR OCCUPANCY SENSORS ARE REQUIRED IN THIS SPACE. PROVIDE ALL POWER PACKS AND ACCESSORIES AS REQUIRED FOR A COMPLETE SYSTEM TO CONTROL ALL LIGHTS IN ROOM. THE PRESENCE OF THIS SYMBOL IN A ROOM ONLY INDICATES THAT THE ROOM SHALL HAVE VACANCY OR OCCUPANCY CAPABILITIES. THE CONTRACTOR SHALL FOLLOW MANUFACTURER'S 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 MANUFACTURER'S 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 MANUFACTURER'S 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 MANUFACTURER'S RECOMMENDATIONS. PROVIDE A SENSOR CAPABLE OF SWITCHING PROGRAMMING FROM OCCUPANCY TO VACANCY AND VICE VERSA WITHOUT ANY ADDED PARTS.
 	VACANCY OR OCCUPANCY SENSOR ZONE
\$	SINGLE POLE SWITCH
\$ \$ ^{vs} \$ ^{os}	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.
Ф	DIMMING LINE VOLTAGE SWITCH
Ф ^{LV}	DIMMING LOW VOLTAGE SWITCH
$\phi^{vs}$ $\phi^{os}$	DIMMING VACANCY OR OCCUPANCY SENSOR SWITCH. PROVIDE A SENSOR CAPABLE OF SWITCHING PROGRAMMING FROM OCCUPANCY TO VACANCY AND VICE VERSA WITHOUT ANY ADDED PARTS.
Γ	KEYPAD STATION (MULTIPLE BUTTONS OR TOUCH SCREEN). REFER TO LIGHTING CONTROLS PLANS AND NARRATIVE FOR MORE INFORMATION.
\$ ^K	KEY OPERATED SWITCH
т	
\$ ⁴	
\$ ³	
\$ ^{DR}	
\$ ^P	
\$ ^T	TIMER SWITCH
<u>HTING:</u>	
• EM	INDICATES FIXTURE SHALL BE AN EMERGENCY
NL	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
<b>101 101</b>	DOUBLE FACE EXIT SIGNS - REFER TO PLAN FOR DIRECTIONAL ARROWS AND WALL OR CEILING MOUNTING
X,x HA-XX	CAPITAL LETTERS - LIGHT FIXTURE TYPE DESIGNATION LOWER CASE LETTERS - SWITCH DESIGNATION PANEL & CIRCUIT DESIGNATION
GEND NOTES:	
	IBOLS MAY BE USED IN PLANS.

- PROPER MOUNTING OF ALL LIGHT FIXTURES AND ELECTRICAL DEVICES IN
- SPECIFIC CEILING OR WALL CONDITIONS. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
- . CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER OF ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES (NEW OR SUBSTITUTES).

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2





# KEYED NOTES - SHEET iE201B

- INDICATED LOCATION TO BE FOR HYDROPONICS DISPLAY. COORDINATE ANY ELECTRICAL REQUIREMENTS WITH ARHITECT PRIOR TO INSTALLATION.
   GEF-1 TO BE ON TOWER ROOF, REFER TO MECHANICAL PLANS FOR EXACT LOCATION. REFER TO SHEET iE701 FOR ADDITIONAL
- INFORMATION REGARDING ELECTRICAL REQUIREMENTS.
  REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION REGARDING WATER HEATER LOCATIONS AND POWER REQUIREMENTS.

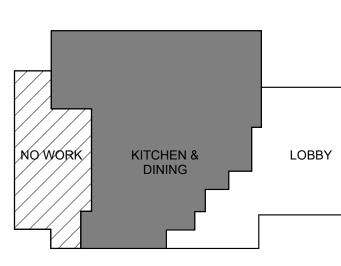
GFCI RECEPTACLES: ALL RECEPTACLES WITHIN A KITCHEN AREA ARE TO BE GFCI PROTECTED. ALL RECEPTACLES MOUNTED ABOVE OR BELOW KITCHEN COUNTERS WITH A SINK OR ANY OTHER WATER DISPENSING MECHANISM SHALL BE GFCI PROTECTED. ALL RECEPTACLES INSTALLED IN AN OUTDOOR LOCATION AND PROVIDED IN RESTROOMS SHALL BE GFCI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

<u>CRAWLSPACE SCOPE NOTE:</u> 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 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.

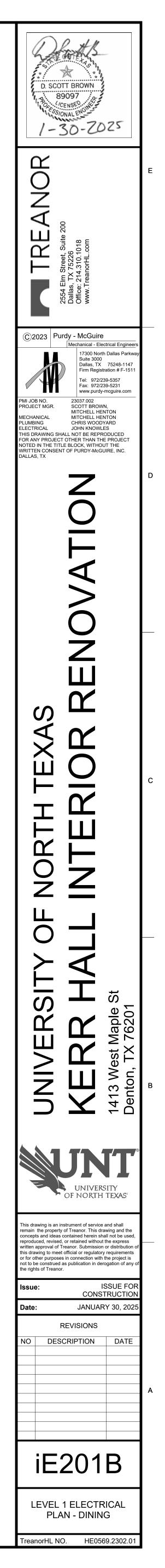
MOTORIZED DAMPERS: FOR EACH MOTORIZED DAMPER SHOWN ON MECHANICAL PLANS, PROVIDE A 120V, 20A POWER CIRCUIT TO 24V TRANSFORMER, PROVIDED BY CONTROLS CONTRACTOR, FOR UP TO 5 MOTORIZED DAMPERS. PROVIDE CONTROL WIRE TO EACH DAMPER. REFER TO THE HVAC PLANS FOR LOCATIONS AND QUANTITIES.

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.

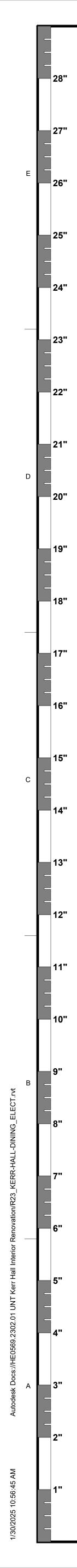


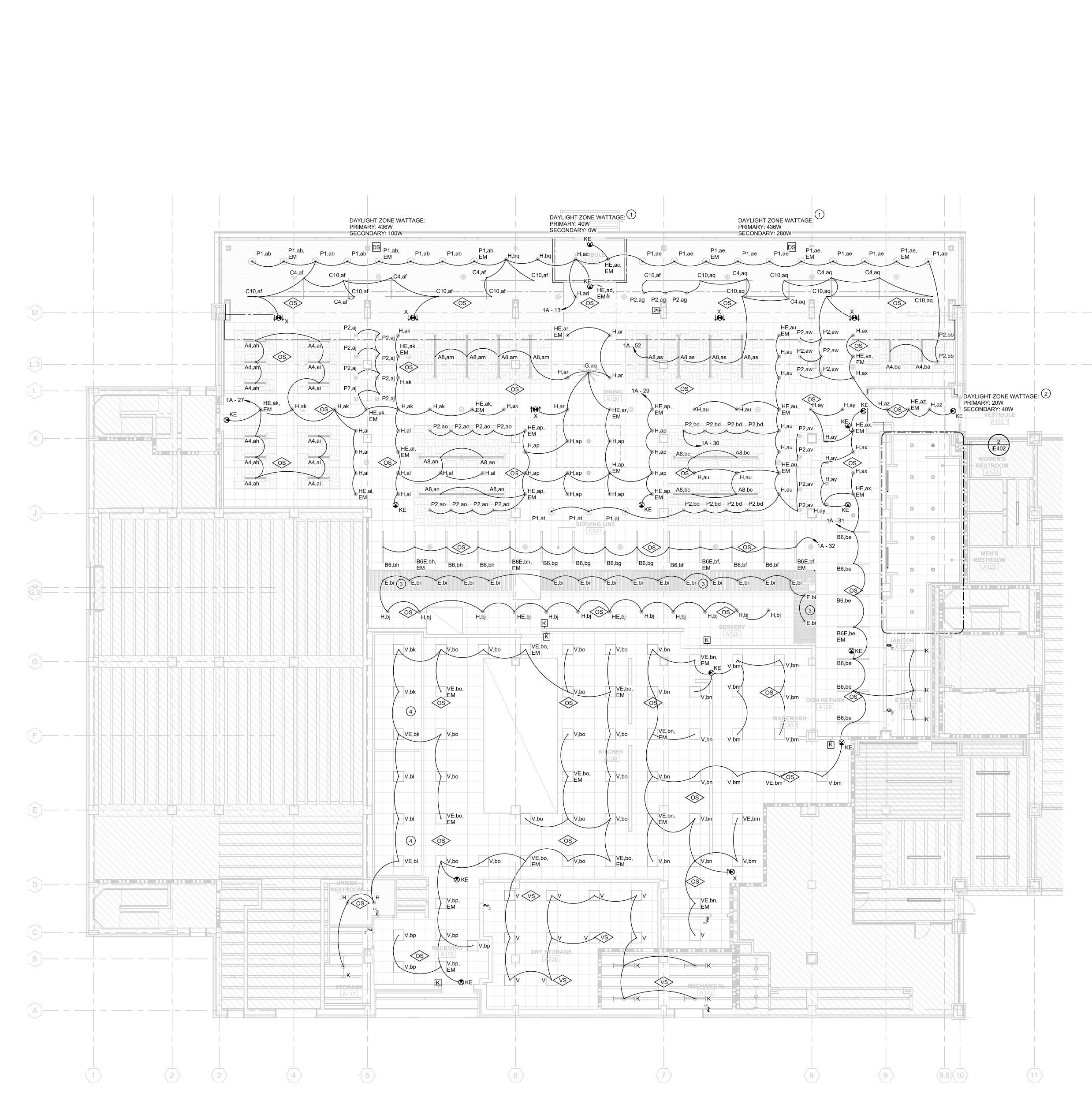
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KEY PLAN



////	
NO WORK	





3

1 LEVEL 1 LIGHTING PLAN - DINING 1/8" = 1'-0"

5

6

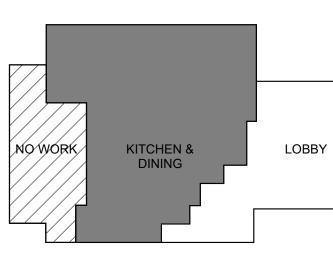
# **LIGHTING GENERAL NOTES:**

- 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,
- PLUG LOAD CONTROLS, ETC. 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 SHEEL 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 UNT REQUEST.

REFER TO ARCHITECTS DRAWINGS FOR LIGHT FIXTURE SELECTIONS AND LAYOUT.

# KEYED NOTES - SHEET iE301B

- 1 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 2 ON THIS SHEET FOR DAYLIGHT ZONES THAT ARE EXEMPT FROM DAYLIGHT RESPONSIVE CONTROLS.
- 2 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.
- 3 REFER TO ARCHITECT AND FOOD SERVICE DRAWINGS FOR INFORMATION REGARDING SERVING LINE LIGHTS AND SIGNAGE. IF
- ADDITIONAL POWER IS REQUIRED, PROVIDE AND INSTALL 120V/1P POWER FROM PANELBOAD 1A FOR REQUIRED LIGHTING. 4 REFER TO SHEET iE403 AND FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION REGARDING LIGHTING CONTROLS IN WALK-IN FREEZER/COOLER.



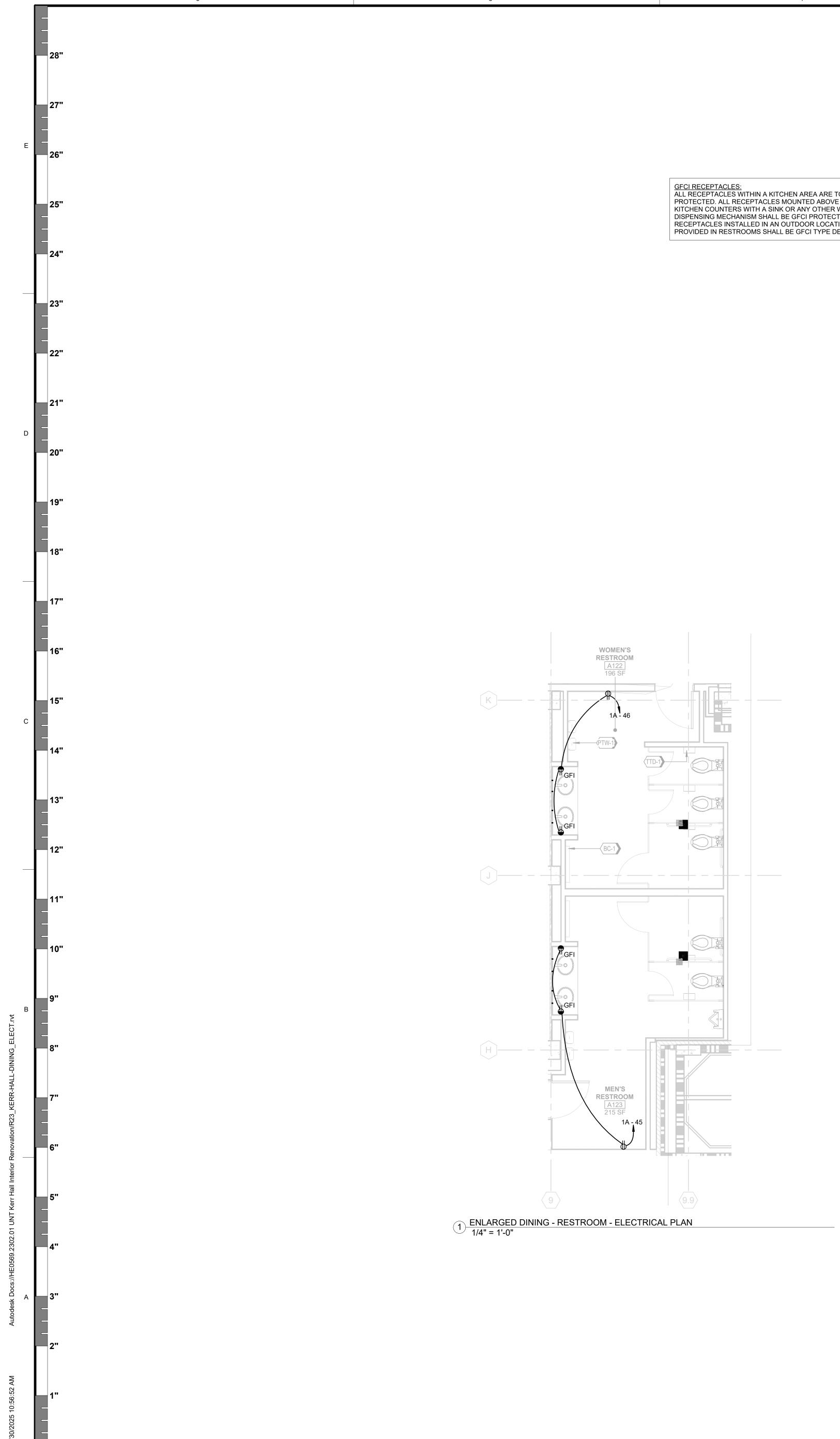
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KEY PLAN

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INVERSITY OF NORTH TE CERR HALL INTERIC 13 Vest Maple St aton, TX 76201	Mechanical - Electrical Engineer 17300 North Dallas Parkwa Suite 3000 Dallas, TX 75248-1147 Firm Registration # F-1511 Tel: 972/239-5357 Fax: 972/239-5231 www.purdy-mcguire.com 0. 23037.002 IGR. SCOTT BROWN, MITCHELL HENTON AL MITCHELL HENTON AL MITCHELL HENTON CHRIS WOODYARD L JOHN KNOWLES ING SHALL NOT BE REPRODUCED ROJECT OTHER THAN THE PROJECT HE TITLE BLOCK, WITHOUT THE ONSENT OF PURDY-McGUIRE, INC.	
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CONTRACT PROVINCE STATES OF STA	Section 2015 Construction of the service and shall property of Treanor. This drawing and the dideas contained herein shall not be used, revised, or retained without the express oval of Treanor. Submission or distribution to the meet official or regulatory requirements on reasons in connection with the project is an strued as publication in derogation of any Treanor.	of of R

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### LIGHTING GENERAL NOTES:

- PLUG LOAD CONTROLS, ETC.
- INFORMATION ON CONTROLS INTENT.
- F ALL LIGHTING SHALL BE CONTROLLED BY SWITCHES, NOT TOUCHPADS, PER UNT REQUEST.

SELECTIONS AND LAYOUT.

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.

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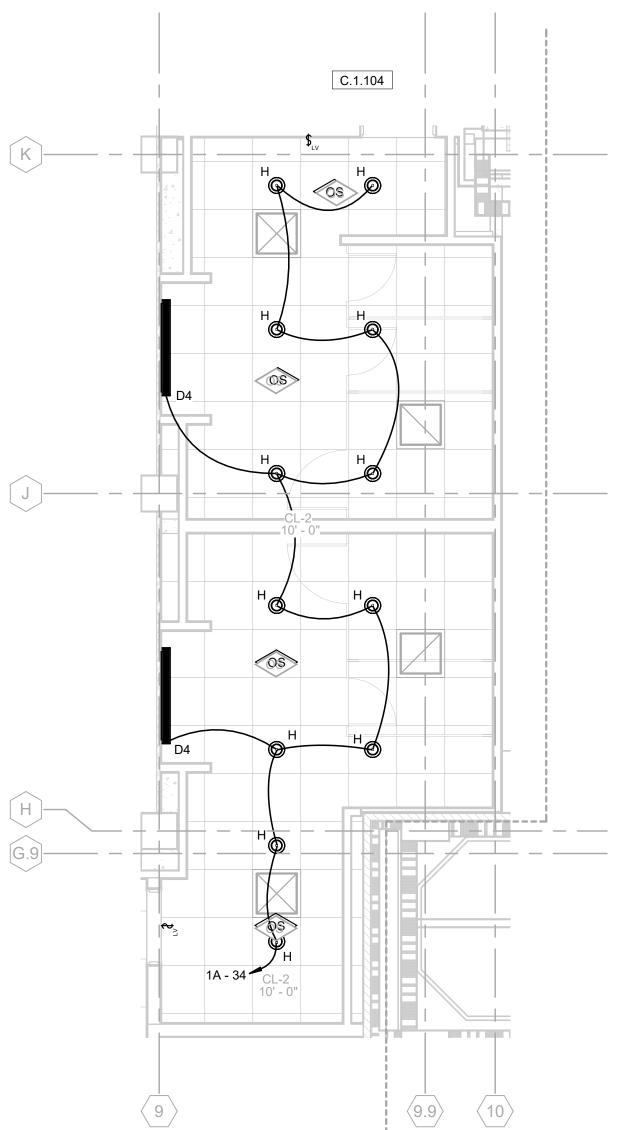
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A REFER TO THE ELECTRICAL FRONT SHEET FOR ADDITIONAL APPLICABLE GENERAL NOTES. B REFER TO LIGHTING CONTROLS NARRATIVE ON THE ELECTRICAL FRONT SHEET FOR ADDITIONAL REQUIREMENTS. INCLUDING BUT NOT LIMITED TO THE LIGHTING CONTROLS REQUIRED SEQUENCE OF OPERATIONS (SOO) FOR EACH SPACE,

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 SHEEL iE001 FOR FURTHER E LIGHTING CONTROLS AND DRIVERS FOR LIGHT FIXTURES SHALL BE MOUNTED IN AN ACCESSIBLE LOCATION AND SHALL BE LABELED FOR EASE OF ACCESS.

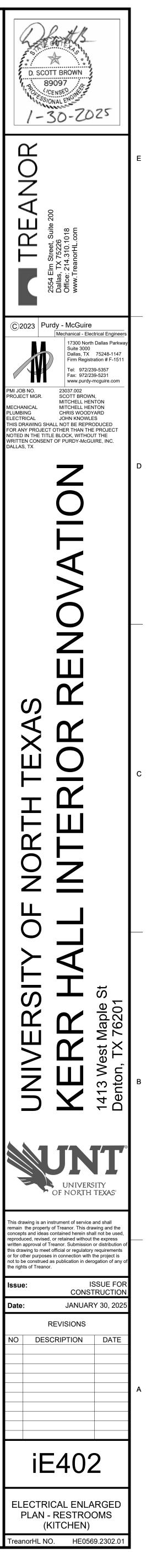
REFER TO ARCHITECTS DRAWINGS FOR LIGHT FIXTURE

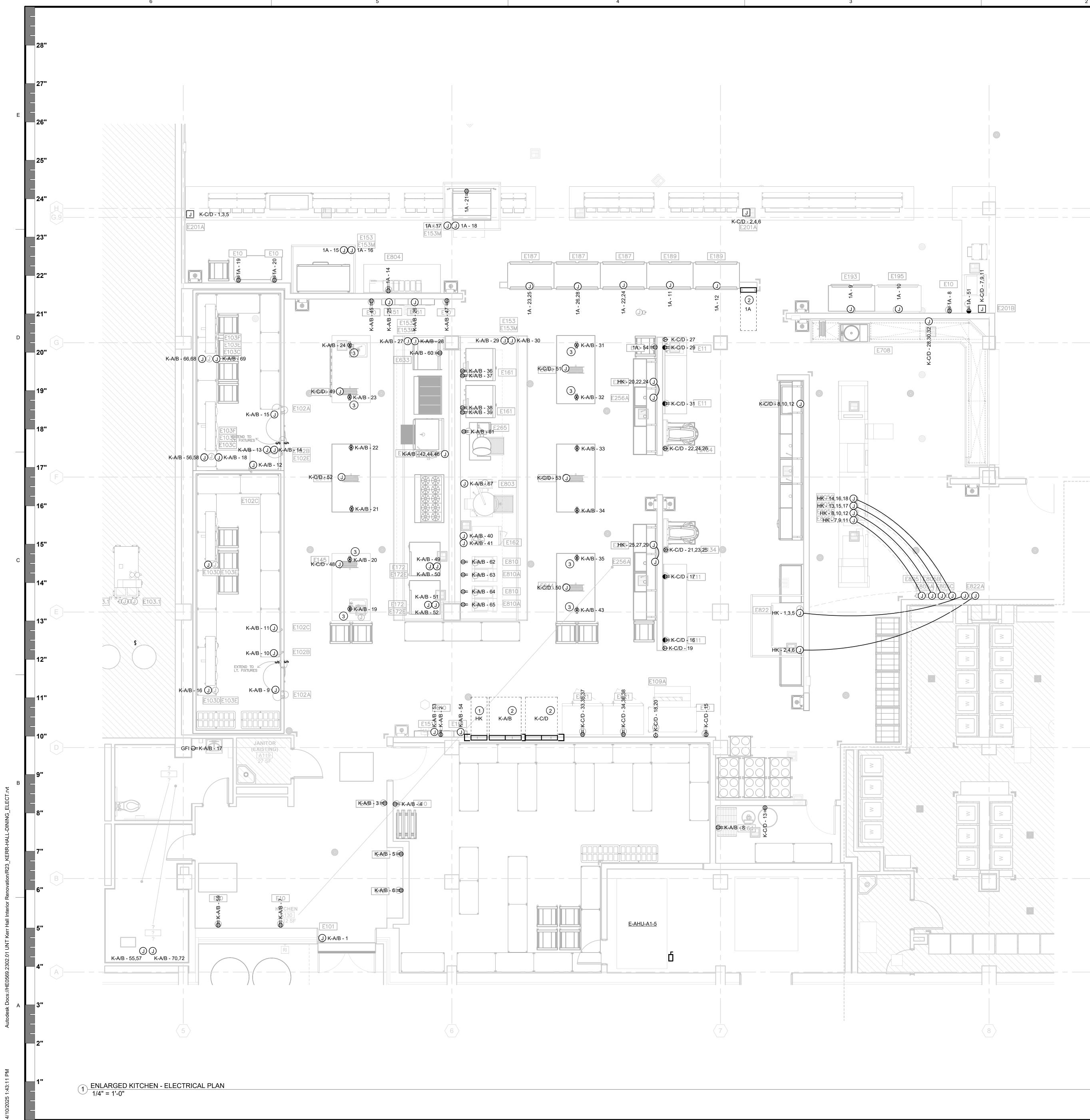


2 ENLARGED DINING - RESTROOM - LIGHTING PLAN 1/4" = 1'-0"

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### **KEYED NOTES - SHEET iE403**

- 1 INDICATED PANELBOARD SHALL BE A NEW 277/480V, 3PHASE, 225A PANELBOARD. REFER TO SHEETS iE501 AND iE803 FOR ADDITIONAL INFORMATION.
- 2 INDICATED PANELBOARDS ARE SHOWN AS NEW PANELBOARDS TO REPLACE EXISTING BOARDS IN THE SPACE. REFER TO SHEETS iE501 AND iE803 FOR PANELBOARD DETAILS. ALL FEEDERS SERVING THE EXISTING PANELBOARD SHALL BE REMOVED BACK TO THE SOURCE
- AND REPLACED WITH NEW FEEDERS. 3 ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL TWIST-LOCK RECEPTACLE AT INDICATED LOCATIONS. REFER TO FOOD SERVICE DRAWINGS AND SCHEDULES FOR ADDITIONAL INFORMATION.

#### <u>GFCI RECEPTACLES:</u> 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.

<u>CRAWLSPACE SCOPE NOTE:</u> 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 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.

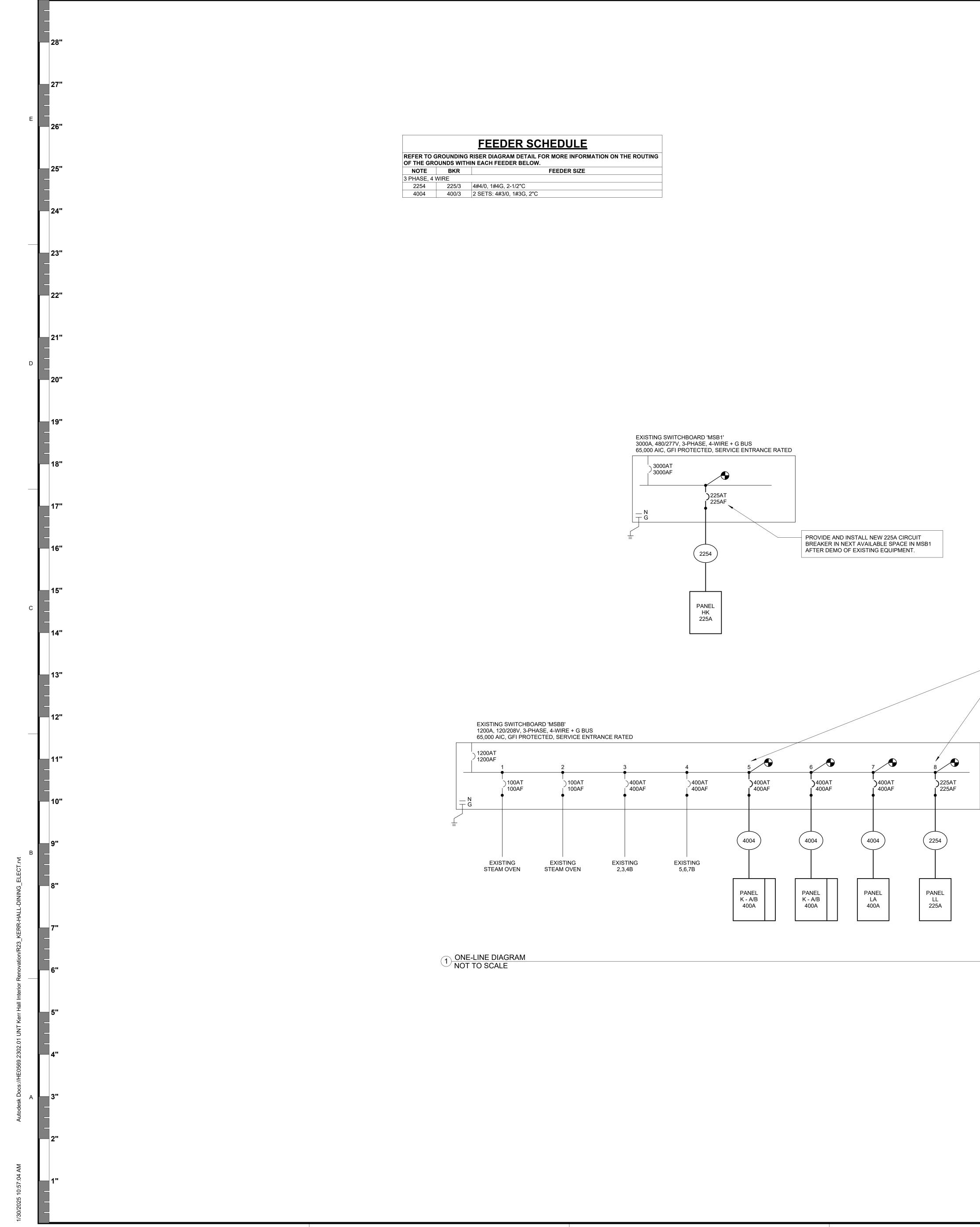
FOOD SERVICE PRICING SCOPE NOTES: REFER TO FOOD SERVICE DRAWINGS AND SCHEDULES FOR ELECTRICAL SCOPE AND POWER REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL

INTERCONNECTION WIRING, CONDUIT, ETC. FOR A COMPLETE AND OPERABLE KITCHEN CONTROLS SYSTEM. THIS INCLUDED BUT NOT LIMITED TO HOOD CONTROL, POLLUTION CONTROL UNIT CONTROL, AND EXHAUST FAN CONTROL.

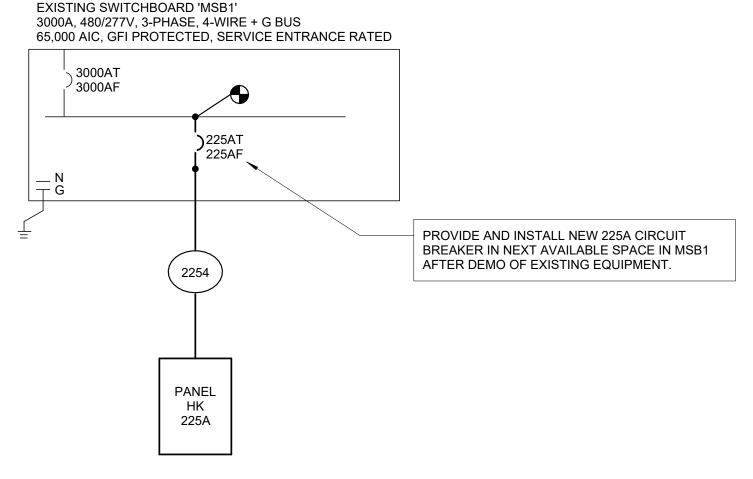
KITCHEN ELECTRICAL EQUIPMENT: ALL ELECTRICAL EQUIPMENT INSTALLED WITHIN THE KITCHEN AREA SHALL BE NEMA 4X STAINLESS STEEL AND RATED FOR HOSE DOWN APPLICATION.

KITCHEN ELECTRICAL POWER: DESIGN INTENT IS TO REUSE EXISTING POWER CIRCUITS FOR NEW KITCHEN EQUIPMENT WITH MATCHING POWER REQUIREMENTS WHENEVER POSSIBLE. FIELD COORDINATE EXISTING CONDITIONS FOR REUSING POWER CIRCUITS.

X D. SCOTT BROWN 89097 CENSED ... 1-30-2025  $\simeq$ ANOI TRE 2554 Dallas Office ©2023 Purdy - McGuire Mechanical - Electrical Engine 17300 North Dallas Parkw Suite 3000 Dallas, TX 75248-1147 Firm Registration # F-151 Tel: 972/239-5357 Fax: 972/239-5231 www.purdy-mcguire.com AI JOB NO. 23037 002 SCOTT BROWN, MITCHELL HENTON MITCHELL HENTON CHRIS WOODYARD JOHN KNOWLES PROJECT MGR. HANICAL LUMBING LECTRICAL THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT NOTED IN THE TITLE BLOCK, WITHOUT THE RITTEN CONSENT OF PURDY-McGUIRE, INC DALLAS, TX Ш  $\sim$ S  $\frown$ Ш  $\sim$ I ┣— R C 7  $\bigcirc$ St S M Í N N  $\leq$  $\mathfrak{C}$  $\overline{}$ 14 De UNIVERSITY OF NORTH TEXAS This drawing is an instrument of service and shall remain the property of Treanor. This drawing and the pts and ideas contained herein shall not be used produced, revised, or retained without the express vritten approval of Treanor. Submission or distributi his drawing to meet official or regulatory requirement or for other purposes in connection with the project is not to be construed as publication in derogation of any the rights of Treanor. ISSUE FOR CONSTRUCTION JANUARY 30, 2025 REVISIONS DESCRIPTION DATE iE403 ELECTRICAL ENLARGED PLAN - KITCHEN TreanorHL NO. HE0569.2302.01



R DIAGRAM DETAIL FOR MORE INFORMATION ON THE ROUTING CH FEEDER BELOW.							
FEEDER SIZE							
), 1#4G, 2-1/2"C							
TS: 4#3/0, 1#3G, 2"C							



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### **GENERAL NOTES:**

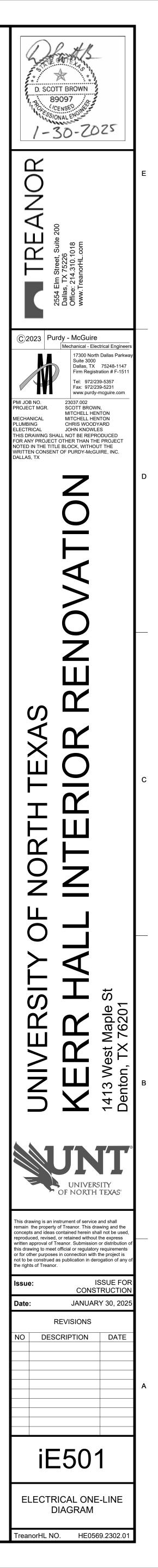
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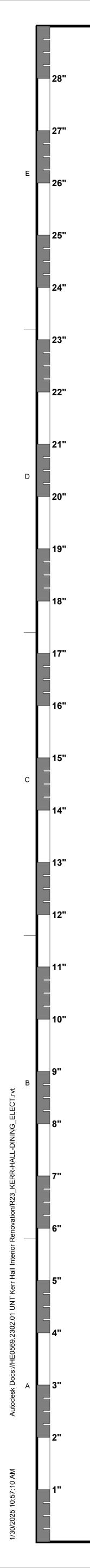
- A. EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY AND RECORD DRAWINGS. HOWEVER, IT IS NOT INTENDED TO BE AN EXACT REPRESENTATION OF ACTUAL CONDITIONS. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS (WHICH INCLUDE BUT ARE NOT LIMITED TO BREAKER SIZES, WIRE SIZES, CONDUIT SIZES, ETC.) PRIOR TO PURCHASING ANY ELECTRICAL EQUIPMENT. ELECTRICAL CONTRACTOR SHALL ALSO FIELD VERIFY PANELBOARDS TO VERIFY THE QUANTITY OF SPARES 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. ALL BREAKERS RATED 1200A OR MORE SHALL BE PROVIDED WITH ARC ENERGY REDUCTION COMPLYING WITH NEC
- 240.87. ALL FUSES RATED 1200A OR MORE SHALL BE PROVIDED WITH ARC ENERGY REDUCTION COMPLYING WITH NEC 240.67. PROVIDE ENERGY-REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATOR TO MEET REDUCTION METHOD. H. 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.
- WHERE SELECTIVE COORDINATION IS REQUIRED SEE THE SELECTIVE COORDINATION NOTE BLOCK ON THIS SHEET. J. 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

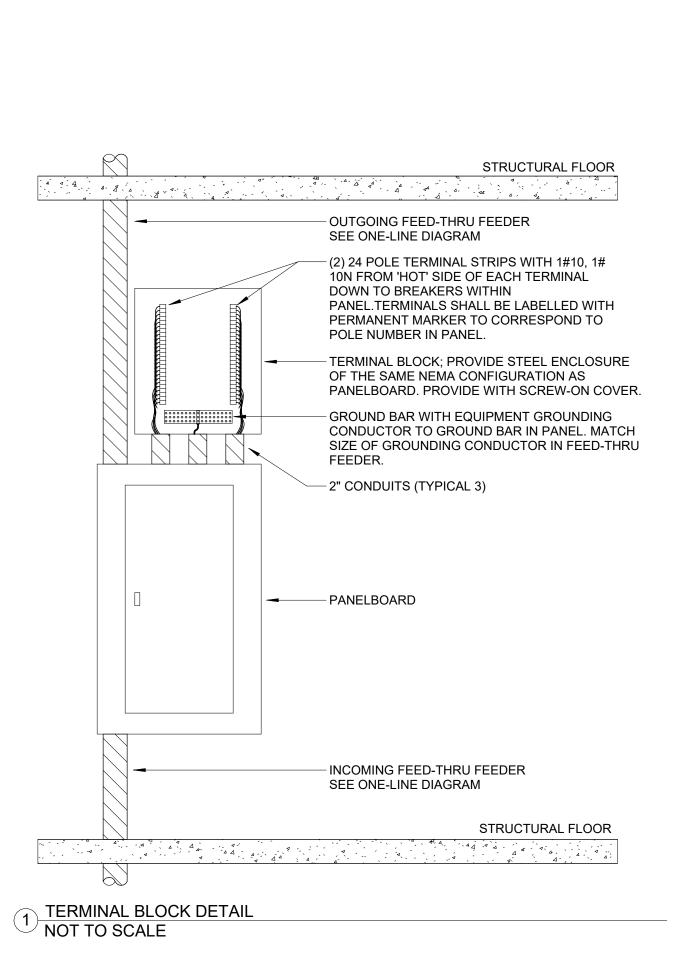
THE FOLLOWING EXISTING CIRCUIT BREAKERS SHALL BE REMOVED/RELOCATED TO ALLOW FOR NEW CIRCUIT BREAKERS TO BE INSTALLED:

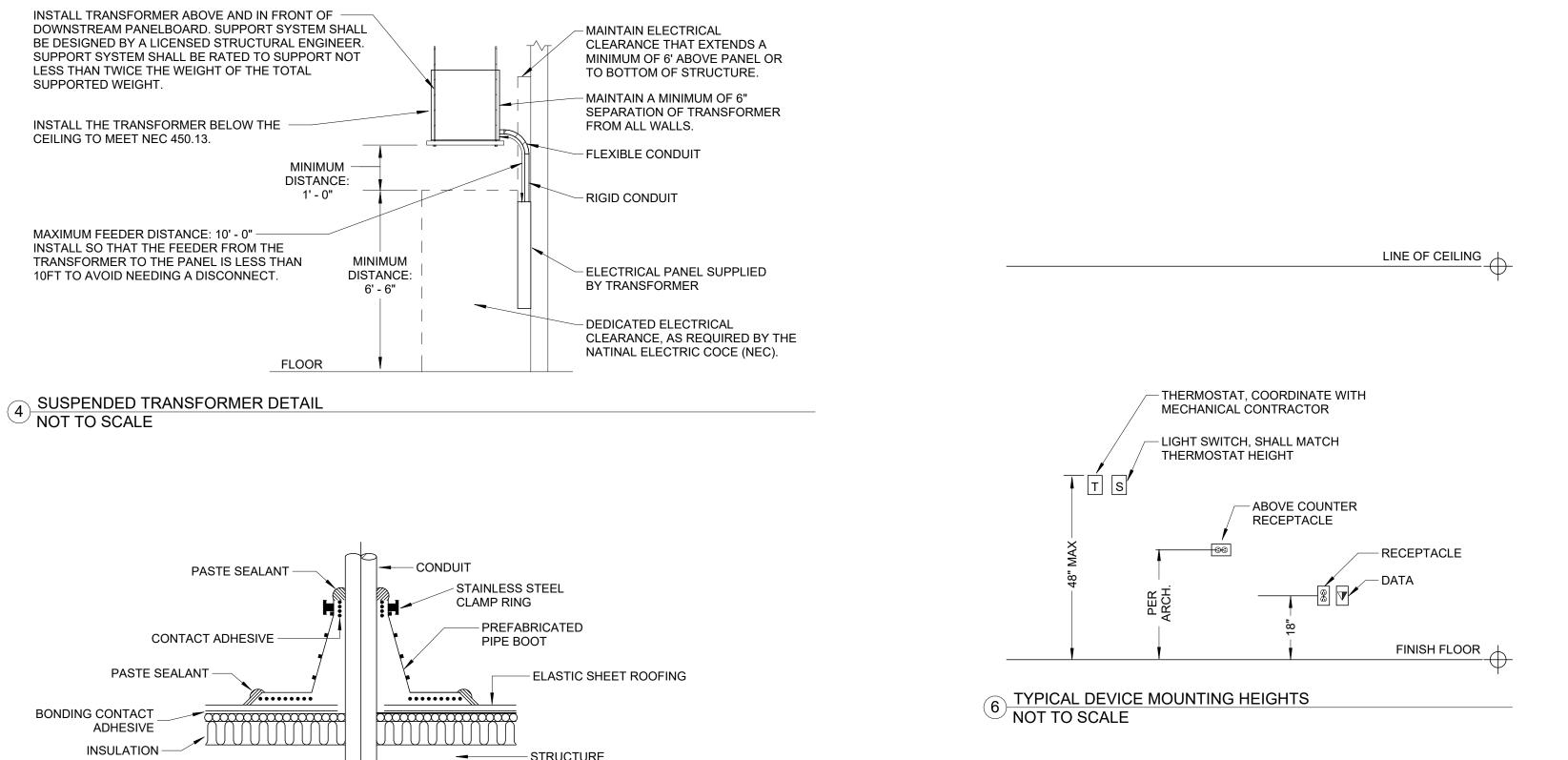
- 600A CIRCUIT BREAKER SERVING EXISTNG 'PANEL K' SHALL BE REMOVED. (2) 225A CIRCUIT BREAKERS SERVING EXISTING
- 'KITCHEN PANELS' SHALL BE REMOVED. 60A CIRCUIT BREAKER SERVING AHU-4 SHALL BE
- RELOCATED TO NEW PANELBOARD K-A/B. 40A CIRCUIT BREAKER SERVING AHU-3 SHALL BE RELOCATED TO NEW PANELBOARD K-A/B.

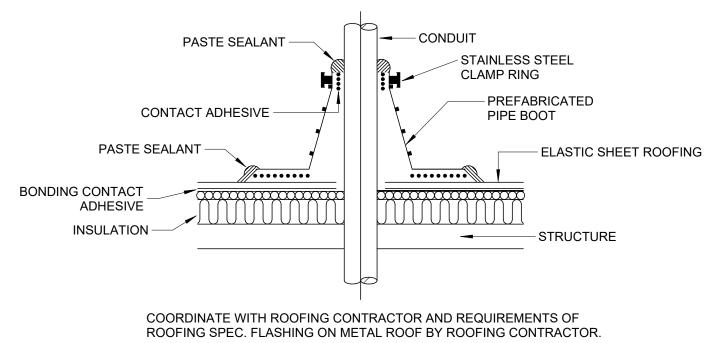
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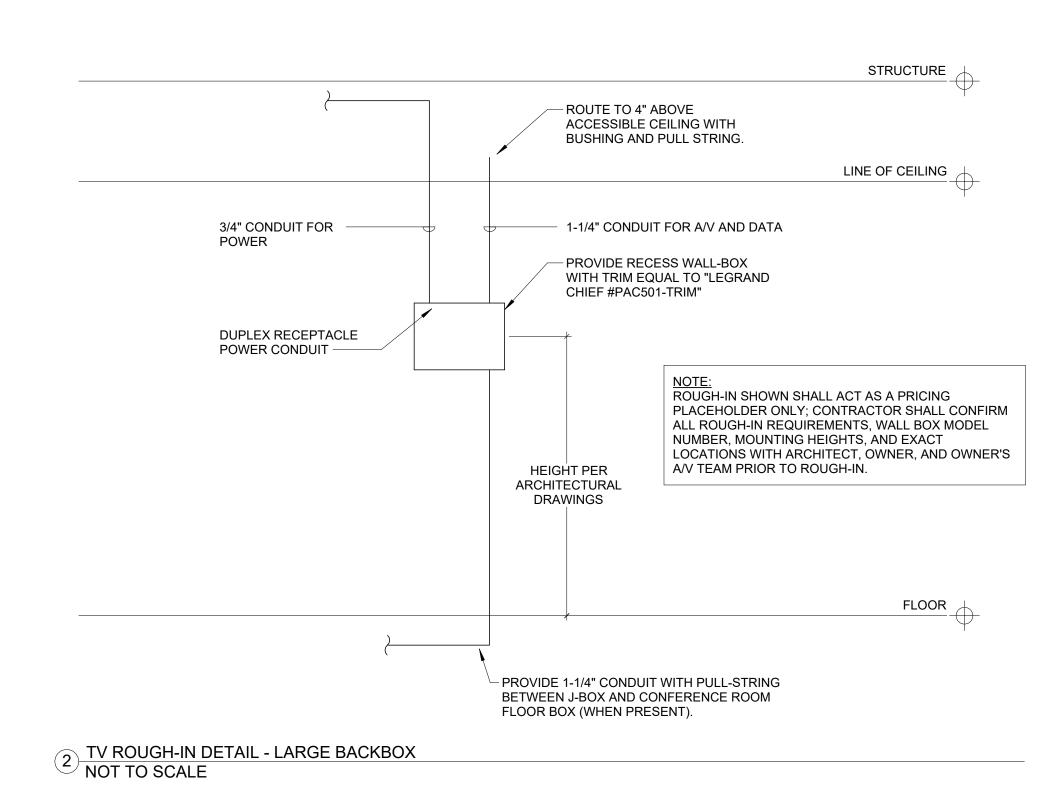




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**CONDUIT ROOF PENETRATION DETAIL** NOT TO SCALE

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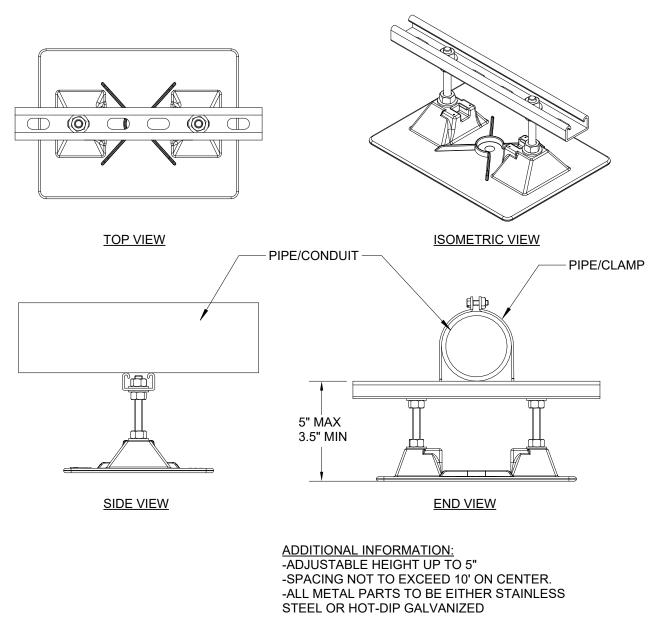


ROOM AREA (SQFT)	MINIMUM FLOOR RECEPTACLES REQUIRED
AREA < 215	NONE REQUIRED*
215 - 322.5	1
322.5 - 537.5	2
537.5 - 752.5	3
752.5 - 967.5	4
967.5 - 1000	5
AREA > 1000	NONE REQUIRED*
*ELOOR RECEPTACI ES A	RESTILLATIOWED BUT THE NATIONAL

	RECEPTACLE N A MEETING ROOM
ROOM PERIMETER (FT)	MINIMUM WALL RECEPTACLES 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
DOES NOT APPLY. WALL RECE	AREA. IF IT IS OVER 1000 SQFT, THIS CODE PTACLES ARE STILL ALLOWED, BUT THE DES NOT REQUIRE A MINIMUM AMOUNT.

MEETING ROOM RECEPTACLES REQUIRED NOT TO SCALE

3



3 CONDUIT SUPPORT ON ROOF NOT TO SCALE

# <u>FLOOR RECEPTACLE</u> QUANTITY IN A MEETING ROOM

*FLOOR RECEPTACLES ARE STILL ALLOWED, BUT THE NATIONAL ELECTRIC CODE DOES NOT REQUIRE A MINIMUM AMOUNT.

210.71 Meeting Rooms (2017 NEC) and 210.65 Meeting Rooms (2020 NEC)

(A) General. Each meeting room of not more than 93 m2 (1000 ft2) in other than dwelling units shall have outlets for nonlocking-type, 125-volt, 15- or 20-ampere receptacles. The outlets shall be installed in accordance with 210.65(B) [210.71 for 2017 NEC]. Where a room or space is provided with movable partition(s), each room size shall be determined with the partition in the position that results in the smallest size meeting room.

Informational Note No. 1: For the purposes of this section, meeting rooms are typically designed or intended for the gathering of seated occupants for such purposes as conferences, deliberations, or similar purposes, where portable electronic equipment such as computers, projectors, or similar equipment is likely to be used. Informational Note No. 2: Examples of rooms that are not meeting rooms include auditoriums, schoolrooms, and coffee shops.

(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(A) (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.

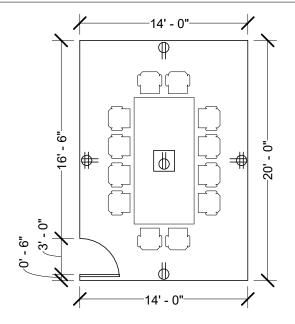
210.52(A)(2) Wall Space. As used in this section, a wall space shall include the following: (1) Any space 600 mm (2 ft) or more in width (including space measured around corners) and unbroken along the floor line by doorways and similar openings, fireplaces, and fixed cabinets that do not have countertops or similar work surfaces (2) The space occupied by fixed panels in walls, excluding sliding panels (3) The space afforded by fixed room dividers, such as freestanding bar-type counters or railings

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 a floor area of at least 20 m2 (215 ft2) shall have at least one floor receptacle outlet, or at least one floor outlet to service receptacle(s), located at a distance not less than 1.8 m (6 ft) from any fixed wall for each 20 m2 (215 ft2) 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 spacing of wall and countertop receptacles. However, 210.65 recognizes that there is a need to provide receptacles to facilitate meetings in which attendees will be using computers. This section, which utilizes the same receptacle requires used in swelling 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.

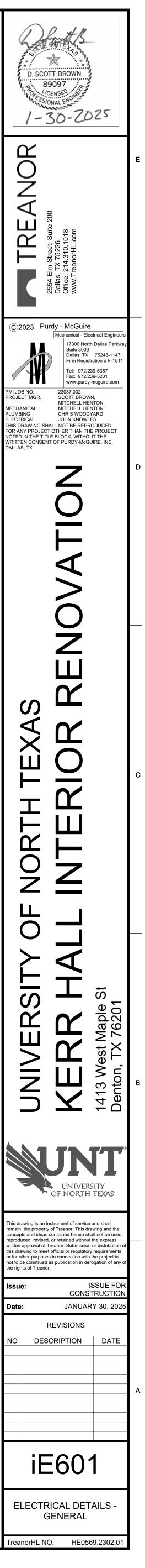
Common Code Official Interpretations - Confirm with local Authority Having Jurisdiction (AHJ): • We can locate wall receptacles wherever we like in the meeting room; we just have to meet the quantity based on 12ft OC. For example, if there is a glass wall all the receptacles can be located the other 3 walls. A quadraplex receptacle counts as (2) wall or floor receptacles.

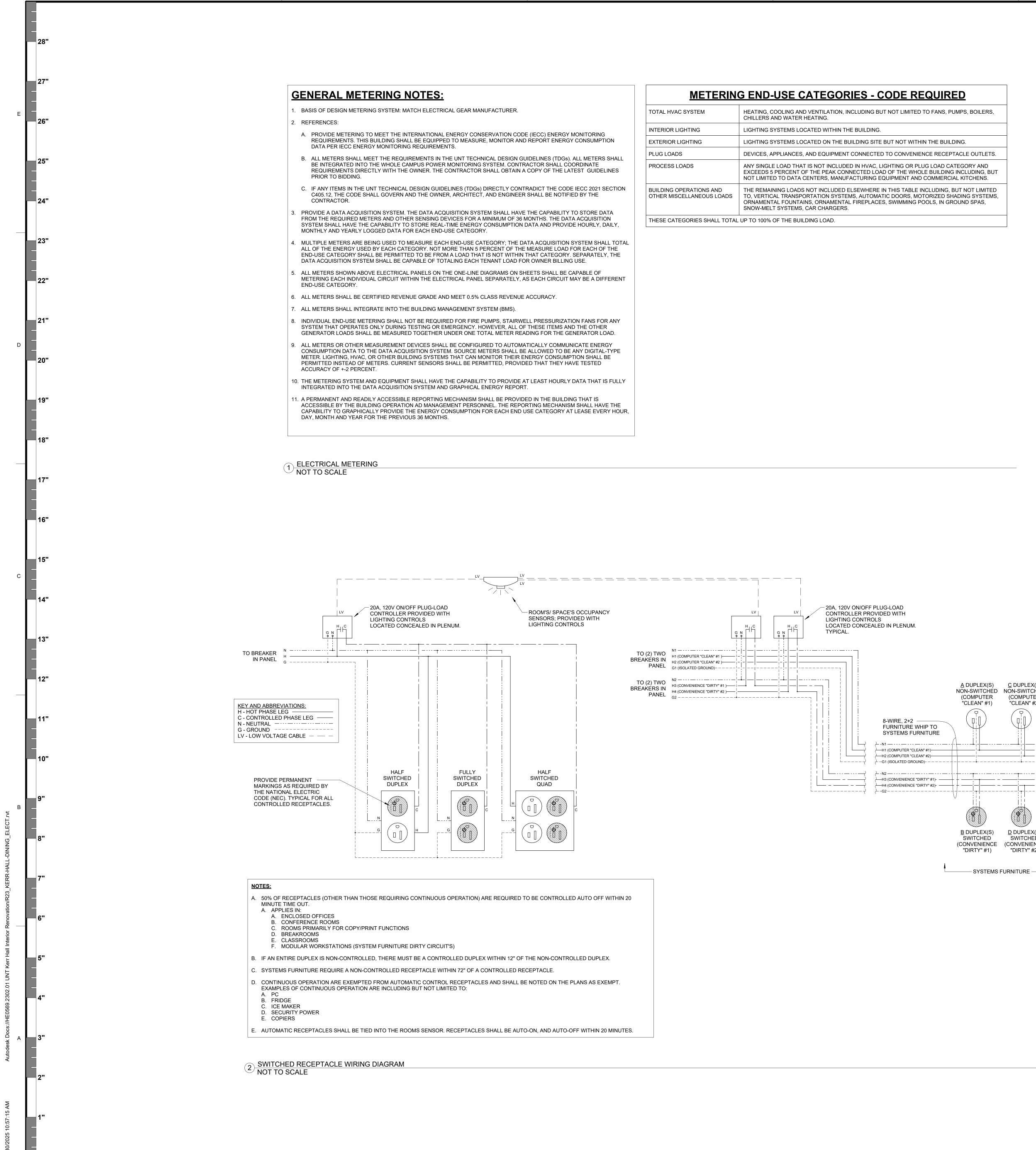


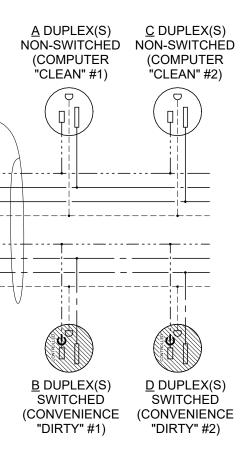
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EXAMPLE: PERIMETER: 16.5 + 14 + 20 + 14 + 0.5= 65 FT = - At LEAST 6 WALL RECEPTACLES REQUIRED ARFA

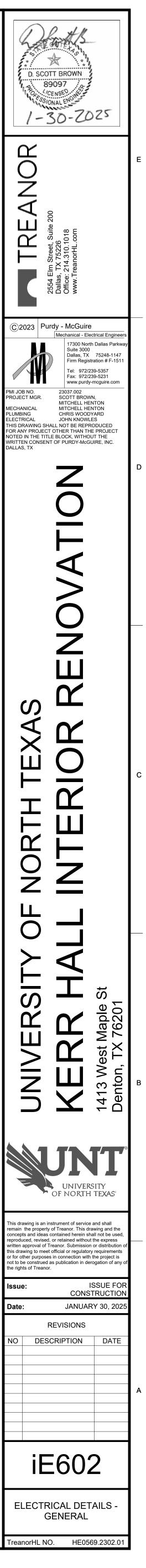
14 * 20 = 280 SQFT = - AT LEAST 1 FLOOR RECEPTACLE REQUIRED

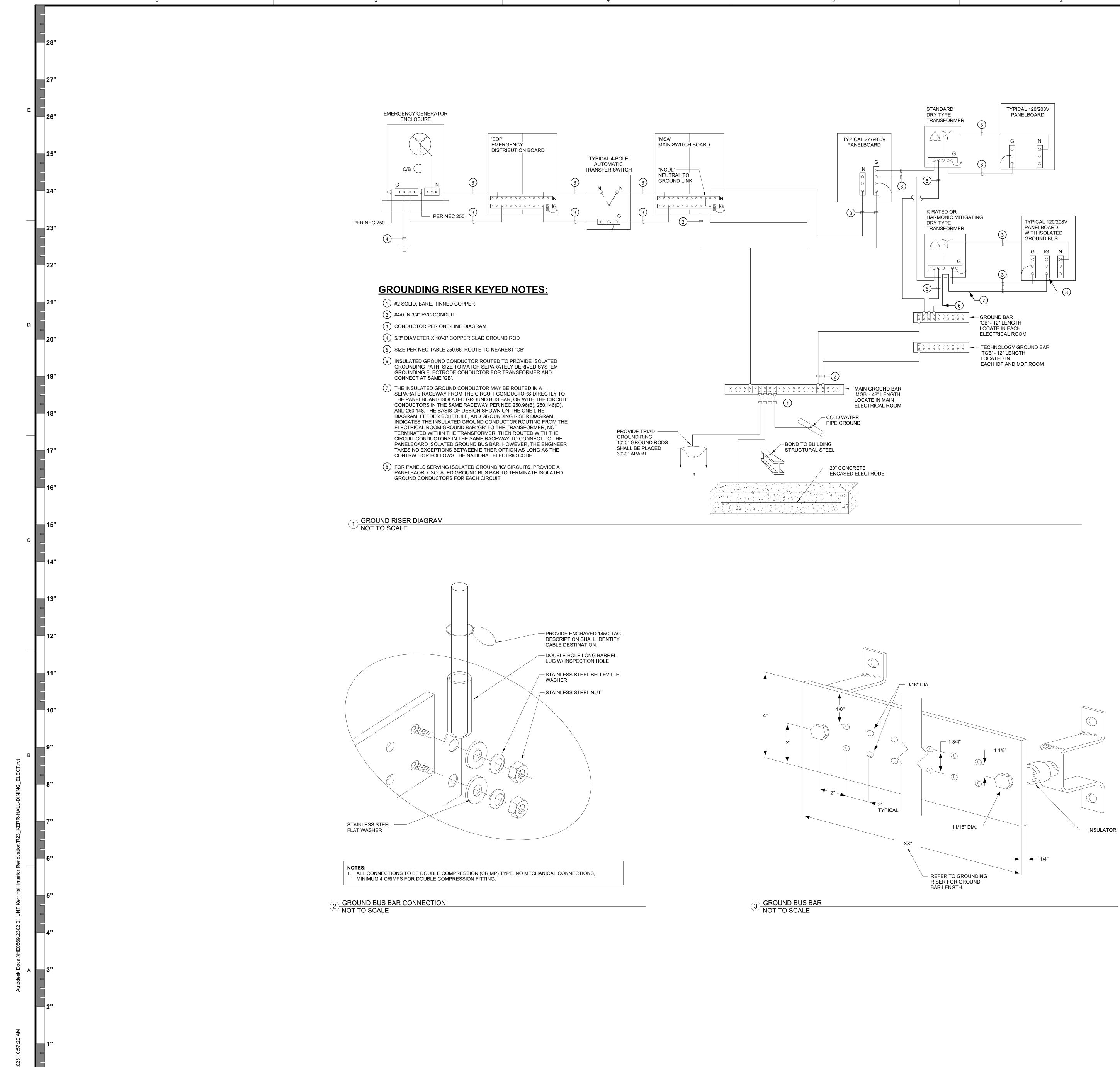


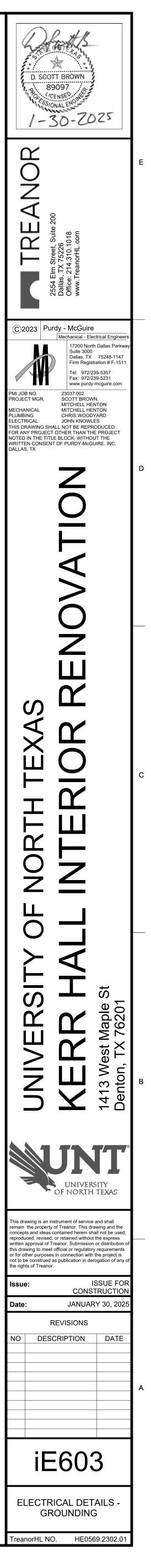




— SYSTEMS FURNITURE —







### MECHANICAL EQUIPMENT POWER SCHEDULE

			ELECTRI	CAL INFO	RMATION					DISCONNE				
EQUIPMENT		ELECTRIC	LOAD											REMARKS
DESIGNATION	CURRENT (AMPS)	LOAD (WATTS)	OTHER MISCELLANEOUS ELECTRIC LOAD INFORMATION	VOLT	PHASE	OCPD RATING	PANEL	CIRCUIT NO.	FEEDER	ТҮРЕ	SIZE	POLES	FUSE	REMARKS
FCU-K1-1	14 A	2808 VA	0.5 HP	208 V	1	20 A	K-C/D	41,43	2#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	
FCU-K1-2	14 A	2808 VA	0.5 HP	208 V	1	20 A	K-C/D	44,46	2#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	
GEF-1 (K)	48 A	39888 VA	20 HP	480 V	3	60 A		<unnamed></unnamed>	4#4, #10G, 1 1/4"C	NEMA HEAVY DUTY	60	3	NF	SEE NOTE 5
KEF-1	1 A	1000 VA	1 HP	480 V	3	20 A	HK	26,28,30	4#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	
KEF-2	1 A	1000 VA	1 HP	480 V	3	20 A	HK	31,33,35	4#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	
KITCHEN SOFT WATER	15 A	1800 VA	-	120 V	1	20 A	K-C/D	13	2#12, #12G, 3/4"C	-	-	-	-	
REF-K-1	10 A	8310 VA	2 HP	480 V	3	20 A	HK	19,21,23	4#12, #12G, 3/4"C	NEMA HEAVY DUTY	30	3	NF	
RP-1 (K)	2 A	180 VA	1/6 HP	120 V	1	20 A	K-C/D	42	2#12, #12G, 3/4"C	NEMA HEAVY DUTY	30	2	NF	SEE NOTE 6
TEF-K-1	1 A	120 VA	0.1 HP	120 V	1	20 A	K-C/D	39	2#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	
TEF-K-2	6 A	1200 VA	0.17 HP	208 V	1	20 A	K-C/D	45,47	2#12, #12G, 3/4"C	PROVIDED BY MECHANICAL	-	-	-	
VRG-K-5,6,7	3 A	300 VA	100VA EACH	120 V	1	20 A	1A	48	2#12, #12G, 3/4"C	MOTOR RATED SWITCH AT EACH	-	-	-	
VRH-K-1,2,3,4	3 A	400 VA	100VA EACH	120 V	1	20 A	1A	47	2#12, #12G, 3/4"C	MOTOR RATED SWITCH AT EACH	-	-	-	
VRH-K-8,9,10	3 A	300 VA	100VA EACH	120 V	1	20 A	1A	49	2#12, #12G, 3/4"C	MOTOR RATED SWITCH AT EACH	-	-	-	
VRH-K-11,12,13,14, 15	4 A	500 VA	100VA EACH	120 V	1	20 A	1A	50	2#12, #12G, 3/4"C	MOTOR RATED SWITCH AT EACH	-	-	-	
WH-1 (K)	2 A	180 VA	-	120 V	1	20 A	K-C/D	14	2#12, #12G, 3/4"C	-	-	-	-	
WH-2 (K)	2 A	180 VA	-	120 V	1	20 A	K-C/D	40	2#12, #12G, 3/4"C	-	-	-	-	

GENERAL NOTES (APPLIES TO ALL):

6

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.

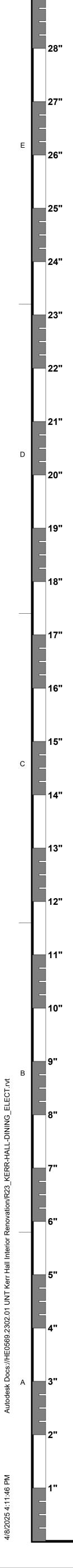
C COORDINATE WITH MECHANICAL REGARDING RESPONSIBILITY OF MOTOR STARTERS, SO THAT DUPLICATE EQUIPMENT IS NOT PURCHASED. D WHERE VARIABLE FREQUENCY DRIVES (VFDS) AND SERVICE DISCONNECTS ARE SEPARATED, ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH WITH AUXILIARY CONTACTS FOR CONNECTION TO VFD SAFETY 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 THHN CONDUCTORS. 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 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 ADD 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. 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 GEF-1 SHALL BE LOCATED ON TOWER ROOF, REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF EQUIPMENT. PROVIDE AND INSTALL POWER CIRCUIT FROM NEAREST 277/480V PANELBOARD WITH AVAILABLE CAPACITY. ELECTRICAL CONTRACTOR SHALL ENSURE FEEDERS ARE SIZED FOR VOLTAGE DROP. PROVIDE POWER TO LEAK DETECTION, SOLENOID VALVE AND 'CO' MONITOR FOR WATER HEATER FROM SAME CIRCUIT AS RECIRCULATION PUMP. CIRCUIT LEAK DETECTION, SOLENOID VALVE AND 'CO' MONITOR UPSTREAM OF MOTOR RATED SWITCH FOR RECIRCULATION PUMP.

5



TAG	DESC
A4	4' LED DIRECT/I
A8	8' LED DIRECT/I
B6	6' LED RECESS
B6E	6' LED RECESS
C4	4' LED RECESS
C10	10' DECORATIV LED LINEAR
D4	4' WALL MOUNT LED
Е	MULTI-CELL DO
F	HIGH CRI TAPE SERVING COUN
G	DECORATIVE P
Н	6" LED ROUND I
HE	6" LED ROUND
K	LED NARROW S
KE	LED NARROW S
P1	MARATHON WC PENDANT
P2	MINIMALIST CO
V	2x2 LED TROFF
VE	2x2 LED TROFF
GENE	RAL NOTES:
А	CONTRACTOR I
В	CONTRACTOR S
С	CONTRACTOR S
D	CONTRACTOR SPECIFICATION
NOTE	S:
1	PROVIDE CONT
2	PROVIDE NUME SIGN LOCATION
3	COORDINATE M
Л	

со	NTACT	VOL.
	1	120/27
	2	120
	3	120
	4 5	120 120
	6	120
	7	120
	8	120
	9	120
	10	120
	11	120
	12	120
	13	120
	14	120
	15 16	120 120
	17	120
	18	120
	19	120
	20	120
	21	120
	22	120
	23	120
	24	120
	25	120
	26	120
	27	120
	28	120
	29	120
	30	120 120
	31 32	120
	33	120
	34	120
	35	120
	36	120
	37	120
	38	120
	39	120
	40	120
	41	120
	42	120
	43	120
	44 45	120/2 120/2
	45	120/2
	40	120/2
	48	120/2
GENE	RAL NOT	
А	REFER T	O THE
В	REFERE	NCE LIC
С	LIGHTING	
D	CIRCUIT	
I E F	CONTRA	
	WORK. E	
G	PROVIDE	
н	PROVIDE	E 0-10V
I	PROVIDE	
J	CONTRA	
	QUANTIT CONTRO	
к	PROVIDE	
	PROVIDE	
NOTE		
1	NOT USE	D.

3

4

	LIGHT FIXTURE SCHEDULE										
CRIPTION	MANUFACTURER	MODEL NUMBER	LAMPS	VOLT	INPUT WATTS	DIMMING	REMARKS				
/INDIRECT PENDANT	LUX ILLUMINARE	EOS 3.0-P-DI-LAM-500-4-30K-8-UNV-S1 (BRONZE FINISH)	LED	120 V	20 W	0-10V	SEE NOTE 3				
/INDIRECT PENDANT	LUX ILLUMINARE	EOS 3.0-P-DI-LAM-500-8-30K-8-UNV-S1 (BRONZE FINISH)	LED	120 V	50 W	0-10V	SEE NOTES 1,3,4				
SED LINEAR	LUX ILLUMINARE	EOS 3.0-R-FT-LAM-500-6-30K-8-UNV-S1	LED	120 V	28 W	0-10V	SEE NOTE 1				
SED LINEAR	LUX ILLUMINARE	EOS 3.0-R-FT-LAM-500-6-30K-8-UNV-S1-EB	LED	120 V	28 W	0-10V	SEE NOTE 1				
SED LINEAR	T-3AR LED	TBSL-[TEMP]-[LENGTH]-[OPTIC]-[MOUNTING]	LED	120 V	32 W	0-10V	SEE NOTE 3				
/E SURFACE MOUNT	PURE EDGE	CCDSM-5W-120-30K	LED	120 V	50 W	0-10V	SEE NOTE 3				
T ARCHITECTURAL	HE WILLIAMS	AX2WD-4-L33-S-UNV	LED	120 V	42 W	0-10V	SEE NOTES 3,4				
OWNLIGHT	USAI	0413H1-35KH-35-BL-BL-NCVS-UNV-D6E-UB44-C44-UA2	LED	120 V	18 W	0-10V					
E LIGHT (FOR NTER, 2.8 W/FT)	VLT	EFLEXW-2320-35-NL-WE1-[LENGTH AS REQUIRED]-UL	LED	120 V	3 W	NO	SEE NOTES 1,3				
PENDANT	PURE EDGE	PX3P-T1-7W-48-30K-BB	LED	120 V	15 W	0-10V	SEE NOTES 1,3,4				
DOWNLIGHT	HE WILLIAMS	6DR-TL-30K-DIM-UNV	LED	120 V	20 W	0-10V					
DOWNLIGHT	HE WILLIAMS	6DR-TL-30K-EM-DIM-UNV	LED	120 V	20 W	0-10V					
STRIP	HE WILLIAMS	75R/S-4'-[LUMES]-[TEMP]-DIM-UNV	LED	120 V	40 W	0-10V	SEE NOTE 1				
STRIP	HE WILLIAMS	75R/S-4'-[LUMES]-[TEMP]-EM-DIM-UNV	LED	120 V	40 W	0-10V	SEE NOTE 1				
OODED TOP	BARNLIGHT	BLE-C-WYDM16-600-ASH-SBK-NA-LED11-3000K-FL	LED	120 V	27 W	0-10V	SEE NOTE 3				
ORDED PENDENT	BARNLIGHT	BLE-C-PINDY-CUP-600-SBK-7FT-STANDARD CANOPY-VORONOI II LED TALA LAMP TYP.	LED	120 V	60 W	0-10V	SEE NOTE 3				
FER	HE WILLIAMS	PT-22-L26/830-RA-DIM-UNV	LED	120 V	22 W	0-10V					
FER	HE WILLIAMS	PT-22-L26/830-RA-EM-DIM-UNV	LED	120 V	22 W	0-10V					

R IS RESPONSIBLE FOR PROVIDING ALL ACCESSORIES FOR PROPER MOUNTING OF FIXTURES IN SPECIFIC CEILING PER LOCATION OF FIXTURES. SHALL PROVIDE SUBMITTALS TO THE ENGINEER OF ALL LIGHTING FIXTURES (NEW OR SUBSTITUTES).

R SHALL COORDINATE FINISH, MOUNTING HEIGHTS (IF SUSPENDED), LENSING, AND OTHER AESTHETIC FEATURES OF ALL FIXTURES WITH ARCHITECT.

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 N SHALL MATCH ALL THE OTHER EXIT SIGNS ON THIS PROJECT, AS SPECIFIED IN THE LIGHT FIXTURE SCHEDULE.

ITINUOUS LENGTH AS SHOWN ON PLANS. CONFIRM EXACT LENGTH WITH ARCHITECTURAL DETAILS AND ARCHITECT. PROVIDE ALL ACCESSORIES FOR A FULLY FUNCTIONING SYSTEM. /BER 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

MOUNTING, LENGTH, AND OTHER DETAILS WITH ARCHITECT AS FIXTURE IS INCORPORATED INTO ARCHITECTURAL FEATURE. 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. PROVIDE LIGHT POLE WITH VIBRATION ISOLATION AS RECOMMENDED BY THE MANUFACTUER.

#### LIGHTING CONTROL PANEL 2 (LCP2) GENERAL

DLT	PHASE	GENERAL LOCATION	CIRCUIT	DESCRIPTION	CONTROL	REMARK
		ZONE				
/277	1			SPARE		
20	1	ab	1A-13	NW DINING P1 FIXTURES	TIMECLOCK, PHOTOCELL, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
20	1	ac	1A-13	N VESTIBULE H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
20	1	ad	1A-13	N DINING H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
20	1	ae	1A-13	NE DINING P1 FIXTURES	TIMECLOCK, PHOTOCELL, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
20	1	af	1A-13	N DINING C FIXTURES	TIMECLOCK, PHOTOCELL, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
20	1	ag	1A-30	NE DINING P2 FIXTURES	TIMECLOCK, PHOTOCELL, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
20	1	ah	1A-27	W DINING A4 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
20	1	ai	1A-27	W DINING A4 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
20	1	aj	1A-27	W DINING P2 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
20	1	ak	1A-27	W DINING H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
20	1	al	1A-27	W DINING H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
20	1	am	1A-29	W DINING A8 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
20	1	an	1A-29	W DINING A8 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
20	1	ао	1A-29	W DINING P2 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
20	1	ар	1A-29	DINING H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
20	1	aq	1A-52	N DINING C FIXTURES	TIMECLOCK, PHOTOCELL, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
20	1	ar	1A-29	DINING ENTRY H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
20	1	as	1A-30	E DINING C10 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
0	1	at	1A-30	S DINING P1 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
)	1	au	1A-30	E DINING H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
)	1	av	1A-30	E DINING P2 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
5	1	aw	1A-31	E DINING P2 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
5	1	ax	1A-31	E DINING H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
5	1	ay	1A-31	E DINING H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
0	1	az	1A-31	E VESTIBULE H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
0	1	ba	1A-13	E DINING A4 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
0	1	bb	1A-13	E DINING P2 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
0	1	bc	1A-30	SE DINING A8 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
0	1	bd	1A-30	SE DINING ACTIVITIES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
0	1	be	1A-30	SERVING LINE B6 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
) )	1	be bf	1A-31	SERVING LINE BO FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
0	1	bg	1A-32	SERVING LINE B6 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
2	1	bh	1A-32		TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
0	1	bi	1A-32		TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
0	1	bj	1A-32	SERVERY H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
0	1	bk	1A-33	KITCHEN NW V FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
0	1	bl	1A-33	KITCHEN SW V FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
0	1	bm	1A-31	WAREWASH V FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
0	1	bn	1A-31	KITCHEN V FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
0	1	bo	1A-33	KITCHEN V FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
0	1	bp	1A-33	RECEIVING V FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
0	1	bq	1A-13	DINING H FIXTURES	TIMECLOCK, PHOTOCELL, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
277	1			SPARE		
277	1			SPARE		
277	1			SPARE		
277	1			SPARE		
277	1			SPARE		

E LIGHTING CONTROLS NARRATIVE ON THE ELECTRICAL FRONT SHEET FOR FURTHER CONTROLS INFORMATION. IGHTING PLANS FOR LOCATION OF CONTROL ZONES.

TROL PANELS SHOWN ARE TO DEMONSTRATE DESIGN INTENT ONLY AND DOES NOT DEMONSTRATE THE EXACT AMOUNT OF CONTROL RELAYS REQUIRED. BERS 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 HAVE A DIFFERENT CIRCUIT NUMBER.

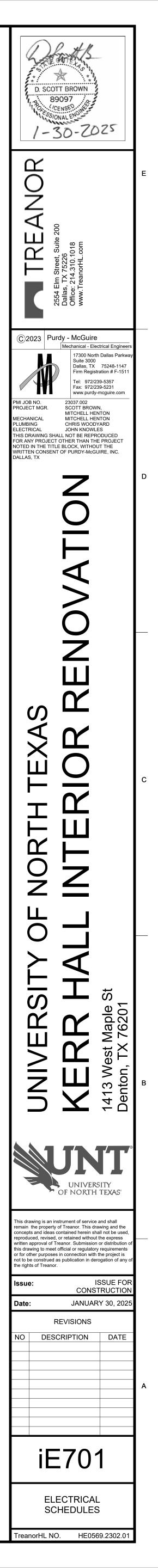
SHALL PROVIDE INSTALLATION AND MATERIALS FOR 20% ADDITIONAL CONTROL RELAYS FOR FUTURE USE. TROL ZONE SCHEDULES AND LIGHTING CONTROLS NARRATIVE ON THE ELECTRICAL FRONT SHEET REPRESENT THE INTENT FOR CONTROL ZONES THROUGHOUT THE SCOPE OF FRICAL CONTRACTOR SHALL PROVIDE AND INSTALL DEVICES AND COMPONENTS TO CREATE A COMPLETE SYSTEM AND TO ACHIEVE THE CODE REQUIREMENTS. RELAYS AS DIMMING TYPE DESPITE DIMMING OR NON-DIMMING FUNCTION OF CONTROL ZONE.

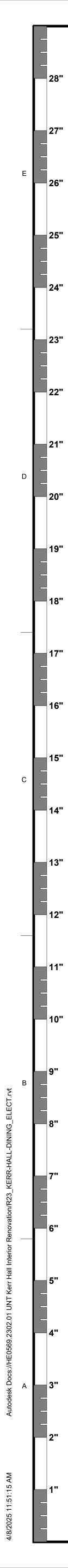
V WIRING TO ALL FIXTURES AND ZONES. SICAL BARRIERS TO SEPERATE 120V VS 277V RELAYS, AS WELL AS NORMAL POWER CIRCUITS VS. EMERGENCY EGRESS LIGHTING CIRCUITS.

SHALL FIELD VERIFY THE EXISTING CONDITIONS REGARDING LIGHTING CONTROL PANELS. IF LIGHTING CONTROL PANELS ARE NOT PRESENT ON THE PROJECT OR IF THE AVAILABLE RELAYS IS INADEQUATE, THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW LIGHTING CONTROL PANELS MATCHING THE BUILDING 'S EXISTING LIGHTING STEM.

EXTERIOR PHOTOCELL AND CONNECT TO LIGHTING CONTROL SYSTEM FOR PROGRAMMING. LOCATE PER MANUFACTURER RECOMMENDATIONS. ERCONNECTION BETWEEN ALL LIGHTING CONTROL PANELS (IF THERE ARE MULTIPLE LIGHTING CONTROL PANELS ON THE PROJECT).

2





			1		<u>K</u>	ITCHEN	EQUIPMEN	NT POWER SCI	HEDULE					
QUIPMENT DESIGNATION	ELECTRICA CURRENT (AMPS)	-	VOLT	PHASE OCPD RA	TING PANEL	CIRCUIT NO.	FEEDER	CONNECTION TYPE	GFCI PROTECTION	DISCONI		POLES	FUSE	REMARKS
01 AIR SCREEN	5 A	610 VA	120 V	1 20 A	K-A/B	1	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
2A DOOR HEATER/LIGHTS	16 A	1920 VA	120 V	1 20 A	K-A/B	9	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
2A DOOR HEATER/LIGHTS 2B TEMP. ALARM	15 A	1820 VA	120 V	1 20 A 1 20 A	K-A/B	15	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
2B TEMP. ALARM 2B TEMP. ALARM	5 A 5 A	600 VA 600 VA	120 V 120 V	1 20 A 1 20 A	K-A/B K-A/B	13	2#12, #12G, 3/4"C 2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER GFCI BREAKER	-	-	-	-	
2C PRESSURE RELIEF PORT	5 A	600 VA	120 V	1 20 A	K-A/B	11	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
2C PRESSURE RELIEF PORT	5 A	600 VA	120 V	1 20 A	K-A/B	12	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
2E PANIC ALARM BUTTON	10 A	1200 VA	120 V	1 20 A	K-A/B	14	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
03.1 REFR. SYSTEM	26 A	5304 VA	208 V	1 35 A	K-A/B	55,57	2#8, #10G, 1"C	JUNCTION BOX	GFCI BREAKER	NEMA HEAVY DUTY	60	2	NF	
3.1 REFR. SYSTEM	26 A	5304 VA	208 V	1 35 A	K-A/B	70,72	2#8, #10G, 1"C	JUNCTION BOX	GFCI BREAKER	NEMA HEAVY DUTY	60	2	NF	
3C FREEZER COIL 3C FREEZER COIL	15 A 15 A	3162 VA 3162 VA	208 V 208 V	1 20 A 1 20 A	K-A/B K-A/B	56,58 66,68	2#12, #12G, 3/4"C 2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER GFCI BREAKER	-	-	-	-	
3D COOLER COIL	2 A	240 VA	120 V	1 20 A	K-A/B	16	2#12, #12G, 3/4 C	JUNCTION BOX	GFCI BREAKER			-	-	
3D COOLER COIL	2 A	240 VA	120 V	1 20 A	K-A/B	48	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
3F DRAIN LINE HEATER	16 A	1920 VA	120 V	1 20 A	K-A/B	18	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
3F DRAIN LINE HEATER	16 A	1920 VA	120 V	1 20 A	K-A/B	69	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
9A ICE MACHINE	19 A	3848 VA	208 V	1 25 A	K-C/D	18,20	2#10, #10G, 3/4"C	RECEPTACLE	GFCI BREAKER	-	-	-	-	
4 40QT MIXER	6 A	2016 VA	208 V	3 20 A	K-C/D	21,23,25	4#12, #12G, 3/4"C	RECEPTACLE	GFCI BREAKER	-	-	-	-	
4 40QT MIXER 9 INSUL. MOBILE PROOFER	6 A 15 A	2016 VA 1800 VA	208 V 120 V	3 20 A 1 20 A	K-C/D K-C/D	22,24,26	4#12, #12G, 3/4"C 2#12, #12G, 3/4"C	RECEPTACLE RECEPTACLE	GFCI BREAKER GFCI RECEPTACLE	-	-	-	-	
9 INSUL. MOBILE PROOFER	15 A	1800 VA	120 V	1 20 A	K-C/D	27	2#12, #12G, 3/4°C	RECEPTACLE	GFCI RECEPTACLE		-	-	-	
1 FIRE PROT. SYSTEM	1 A	120 VA	120 V	1 20 A	K-A/B	25	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
1 FIRE PROT. SYSTEM	1 A	120 VA	120 V	1 20 A	K-A/B	26	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
1 FIRE PROT. SYSTEM	1 A	120 VA	120 V	1 20 A	K-A/B	53	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
	1 A	120 VA	120 V	1 20 A	K-A/B	54	2#12, #12G, 3/4"C		GFCI BREAKER	-	-	-	-	
3 HOOD LIGHTS 3 HOOD LIGHTS	10 A 10 A	1200 VA 1200 VA	120 V 120 V	1 20 A 1 20 A	K-A/B K-A/B	27	2#12, #12G, 3/4"C 2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER GFCI BREAKER	-	-	-	-	
3 HOOD LIGHTS	10 A	1200 VA 1200 VA	120 V 120 V	1 20 A 1 20 A	1A	15	2#12, #12G, 3/4°C 2#12, #12G, 3/4°C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
3 HOOD LIGHTS	10 A	1200 VA	120 V	1 20 A	1A	17	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
3M HEAT SENSOR	10 A	1200 VA	120 V	1 20 A	K-A/B	28	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
3M HEAT SENSOR	10 A	1200 VA	120 V	1 20 A	K-A/B	30	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
3M HEAT SENSOR	10 A	1200 VA	120 V	1 20 A	1A	16	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
3M HEAT SENSOR 1 CONVECTION OVEN	10 A 6 A	1200 VA 720 VA	120 V 120 V	1 20 A 1 20 A	1A K-A/B	<u>18</u> 36	2#12, #12G, 3/4"C 2#12, #12G, 3/4"C	JUNCTION BOX RECEPTACLE	GFCI BREAKER GFCI RECEPTACLE	-	-	-	-	SEE NOTE 4
1 CONVECTION OVEN	6 A	720 VA 720 VA	120 V 120 V	1 20 A 1 20 A	K-A/B	30	2#12, #12G, 3/4 C 2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	-	-	-	SEE NOTE 4 SEE NOTE 4
1 CONVECTION OVEN	6 A	720 VA	120 V	1 20 A	K-A/B	38	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	-	-	-	SEE NOTE 4
1 CONVECTION OVEN	6 A	720 VA	120 V	1 20 A	K-A/B	39	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	-	-	-	SEE NOTE 4
2 CONVECTION STEAMER	2 A	200 VA	120 V	1 20 A	K-A/B	40	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	SEE NOTE 4
2 CONVECTION STEAMER	2 A	200 VA	120 V	1 20 A	K-A/B	41	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	SEE NOTE 4
4 TILT BRAISING PAN	32 A	11500 VA	208 V	3 40 A	K-A/B	42,44,46	4#8, #10G, 1"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	SEE NOTE 4
1 COMBI OVEN 1 COMBI OVEN	18 A 18 A	2200 VA 2200 VA	120 V 120 V	1 25 A 1 25 A	K-A/B K-A/B	49 50	2#12, #12G, 3/4"C 2#12, #12G, 3/4"C	RECEPTACLE RECEPTACLE	GFCI RECEPTACLE GFCI RECEPTACLE	-	-	-	-	
2 COMBI OVEN	10 A	1440 VA	120 V	1 20 A	K-A/B	51	2#12, #12G, 3/4°C	RECEPTACLE	GFCI RECEPTACLE			-	-	SEE NOTE 4
2 COMBIOVEN	12 A	1440 VA	120 V	1 20 A	K-A/B	52	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	-	-	-	SEE NOTE 4
7 HEATED CABINET	16 A	3224 VA	208 V	1 20 A	1A	22,24	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
7 HEATED CABINET	16 A	3224 VA	208 V	1 20 A	1A	23,25	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
7 HEATED CABINET	16 A	3224 VA	208 V	1 20 A	1A	26,28	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
	9 A	1032 VA	120 V	1 20 A	1A	11	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER		-	-	-	
9 REFRIGERATOR 3 REFRIGERATOR	9 A 8 A	1032 VA 1000 VA	120 V 120 V	1 20 A 1 20 A	1A 1A	<u>12</u> 9	2#12, #12G, 3/4"C 2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER GFCI BREAKER	-	-	-	-	
5 FREEZER	15 A	1800 VA	120 V	1 20 A	1A 1A	10	2#12, #12G, 3/4°C	JUNCTION BOX	GFCI BREAKER			-	-	
1A LOAD CENTER	60 A	21600 VA	208 V	3 80 A	K-C/D	2,4,6	4#3, #8G, 1-1/2"C	DIRECT	GFCI BREAKER	-	-	-	-	
1A LOAD CENTER	60 A	21600 VA	208 V	3 80 A	K-C/D	7,9,11	4#3, #8G, 1-1/2"C	DIRECT	GFCI BREAKER	-	-	-	-	
1A LOAD CENTER	60 A	21600 VA	208 V	3 100 A	K-C/D	1,3,5	4#1, #8G, 1-1/2"C	DIRECT	GFCI BREAKER	-	-	-	-	
	28 A	23185 VA	480 V	3 35 A	HK	1,3,5	4#8, #10G, 1"C		GFCI BREAKER		60	3	NF	
2 BOOSTER HEATER 6 POWERWASH SINK	29 A 13 A	24016 VA 10803 VA	480 V 480 V	3 40 A 3 20 A	HK HK	2,4,6	4#8, #10G, 1"C 4#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER GFCI BREAKER	NEMA HEAVY DUTY	60	3	NF -	
6 POWERWASH SINK 6 POWERWASH SINK	13 A	10803 VA 10803 VA	480 V 480 V	3 20 A 3 20 A	HK	20,22,24	4#12, #12G, 3/4°C 4#12, #12G, 3/4°C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
4 OSMOSIS SYSTEM	15 A	1800 VA	120 V	1 20 A	K-A/B	8	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	-	-	-	
5 KETTLE	5 A	600 VA	120 V	1 20 A	K-A/B	61	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	-	-	-	SEE NOTE 4
3 GRIDDLE	5 A	600 VA	120 V	1 20 A	K-A/B	60	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	-	-	-	SEE NOTE 4
4 FRYER	16 A	1920 VA	120 V	1 20 A	K-A/B	62	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	-	-	-	SEE NOTE 4
	16 A	1920 VA	120 V	1 20 A	K-A/B	63	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	-	-	-	SEE NOTE 4
4 FRYER 4 FRYER	16 A 16 A	1920 VA 1920 VA	120 V 120 V	1 20 A 1 20 A	K-A/B K-A/B	64	2#12, #12G, 3/4"C 2#12, #12G, 3/4"C	RECEPTACLE RECEPTACLE	GFCI RECEPTACLE GFCI RECEPTACLE	-	-	-	-	SEE NOTE 4 SEE NOTE 4
SCRAP COLLECTOR	3 A	1152 VA	208 V	3 20 A	K-A/B K-C/D	28,30,32	2#12, #12G, 3/4°C 4#12, #12G, 3/4°C	JUNCTION BOX	GFCI RECEPTACLE	-	-	-	-	SEE NUTE 4
SCRAP COLLECTOR	3 A	1152 VA	208 V	3 20 A	K-C/D	8,10,12	4#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
B TILT BRAISING PAN	5 A	600 VA	120 V	1 20 A	K-A/B	67	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-		-	-	SEE NOTE 4
PIZZA PREP TABLE	8 A	900 VA	120 V	1 20 A	1A	14	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	-	-	-	
WASH HEATER	35 A	29417 VA	480 V	3 45 A	HK	7,9,11	4#6, #10G, 1"C	JUNCTION BOX	GFCI BREAKER	NEMA HEAVY DUTY	60	3	NF	
	39 A	32326 VA	480 V	3 50 A	HK	8,10,12	4#6, #10G, 1"C	JUNCTION BOX	GFCI BREAKER		60	3	NF	
	6 A	5235 VA	480 V	3 20 A	HK	13,15,17	4#12, #12G, 3/4"C		GFCI BREAKER		60	3	NF	
5C BOOSTER OPTION	32 A 12 A	27008 VA 1440 VA	480 V 120 V	3 45 A 1 20 A	HK 1A	14,16,18	4#6, #10G, 1"C 2#12, #12G, 3/4"C	JUNCTION BOX RECEPTACLE	GFCI BREAKER GFCI RECEPTACLE	NEMA HEAVY DUTY	60	3	NF -	
I SODA DISPENSER	12 A 12 A	1440 VA 1440 VA	120 V 120 V	1 20 A 1 20 A	1A 1A	5	2#12, #12G, 3/4 C 2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE		-	-	-	
2 TEA/COFFEE BREWER	12 A	1680 VA	120 V	1 20 A	1A	6	2#12, #12G, 3/4°C	RECEPTACLE	GFCI RECEPTACLE	-	-	-	-	
2 TEA/COFFEE BREWER	14 A	1680 VA	120 V	1 20 A	1A	3	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	-	-	-	
JUICE DISPENSER	3 A	360 VA	120 V	1 20 A	1A	7	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	-	-	-	
JUICE DISPENSER	3 A	360 VA	120 V	1 20 A	1A	2	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	-	-	-	
	12 A	1440 VA	120 V	1 20 A	1A	4	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	-	-	-	
GAS GRIDDLE	6 A	720 VA	120 V	1 20 A	1A	21	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE		- 30	-	-	SEE NOTE 4
I BLAST CHILLER	10 A	3600 VA	208 V	3 30 A	K-C/D	33,35,37	4#10, #10G, 3/4"C	RECEPTACLE	GFCI BREAKER	NEMA HEAVY DUTY	1 20	3	NF	

2 REFER TO KITCHEN CONSULTANT PLANS FOR LOCATIONS AND HEIGHTS OF KITCHEN EQUIPMENT. COORDINATE FINAL LOCATIONS IN FIELD. 3 REFER TO HVAC AND PLUMBING PLANS FOR LOCATIONS OF MECHANICAL AND PLUMBING EQUIPMENT. COORDINATE FINAL LOCATIONS IN FIELD.

4 INDICATED EQUIPMENT SHALL BE INSTALLED WITH SHUNT TRIP BREAKER. REFER TO FOOD SERVICE DRAWINGS FOR ADDITINOAL INFORMATION.

1 SCHEDULE INFORMATION WAS COPIED FROM KITCHEN FOOD SERVICE SHEETS. IF THERE ARE ANY DISCREPANCIES BETWEEN THE ROUGH-IN SCHEDULE ON THE FOOD SERVICE SHEETS AND THIS SCHEDULE, THE FOOD SERVICE SCHEDULE SHALL GOVERN AND THE ENGINEER SHALL BE NOTIFIED.

4

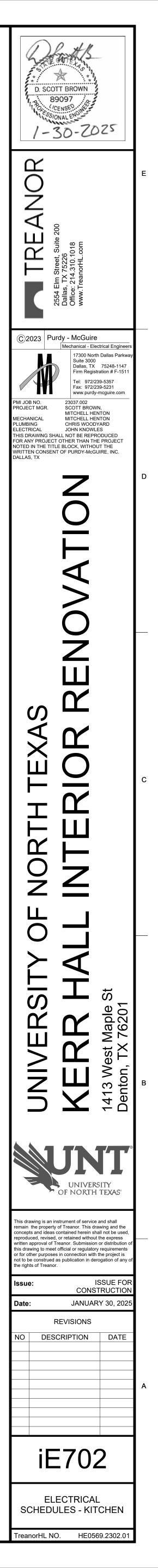
3

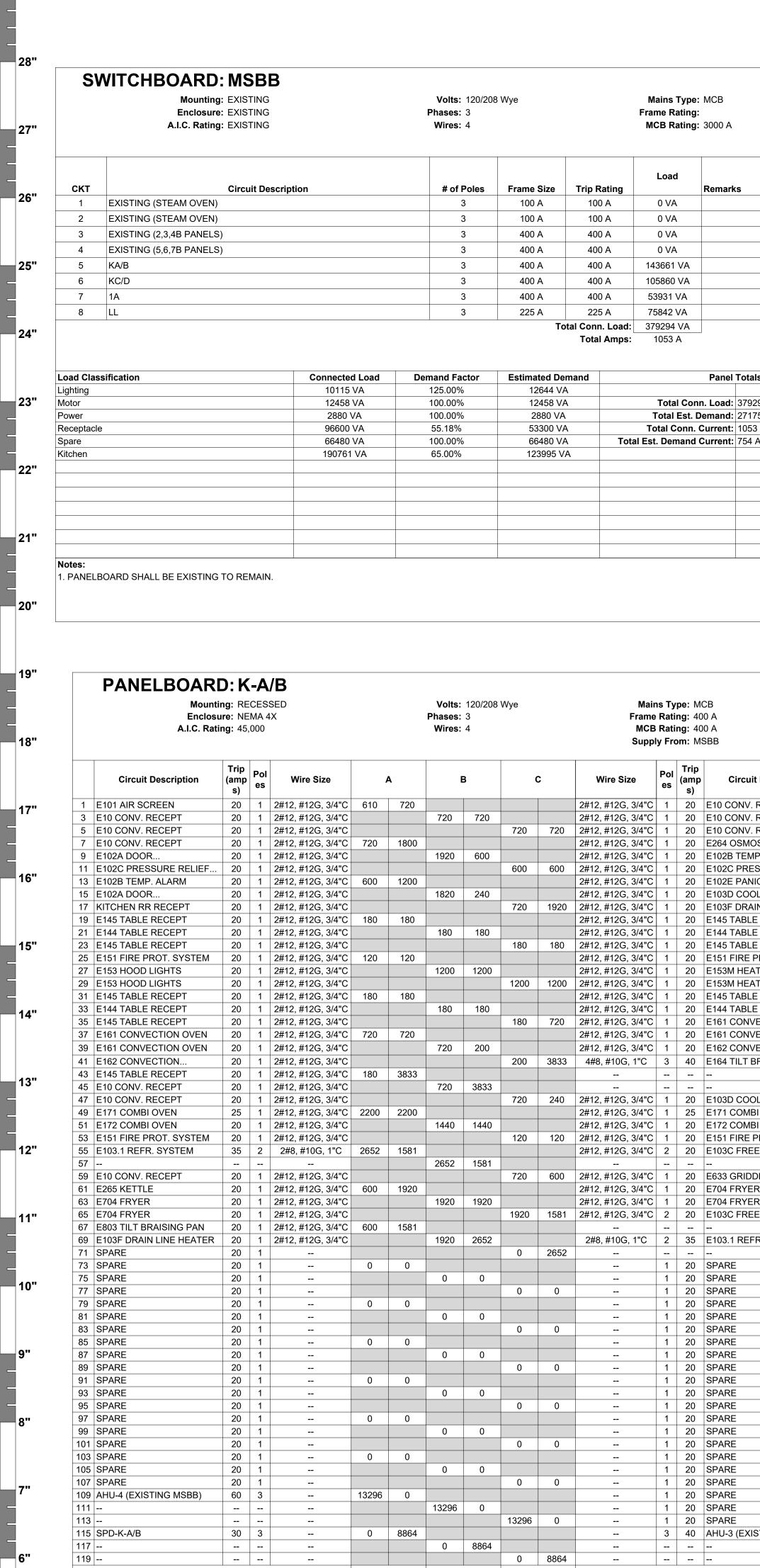
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_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____

2





	Total Amps: 401	A 441 A	365 A		
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel 1	Fotals
Power	2160 VA	100.00%	2160 VA		
Kitchen	75021 VA	65.00%	48764 VA	Total Conn. Load:	143661 VA
				Total Est. Demand:	117404 VA
				Total Conn. Current:	399 A
				Total Est. Demand Current:	326 A
Notes:					

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5

0 8864

1. PANEL SHALL HAVE TWO SECTIONS WITH 60 SINGLE SLOT POLES IN EACH SECTION. 2. EXISTING AHU-3 AND AHU-4 FROM PANEL MSBB SHALL BE RELOCATED TO THIS PANELBOARD. ELECTRICAL CONTRACTOR SHALL EXTEND EXISTING FEEDERS TO NEW LOCATION.

0 8864

0 8864

 Total Load:
 47557 VA
 52298 VA
 43806 VA

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115 SPD-K-A/B

6

117

119 ---

В	
•	
0 A	
nark	S
nel	Totals
	070004344
	379294 VA 271756 VA
	1053 A
	754 A

		ng: 40 ng: 40	0 A	
		om: MS		
	Pol es	Trip (amp s)	Circuit Description	
4"C	1	<b>3</b> ) 20	E10 CONV. RECEPT	2
4"C	1	20	E10 CONV. RECEPT	4
4"C	1	20	E10 CONV. RECEPT	6
4"C	1	20	E264 OSMOSIS SYSTEM	8
4"C	1	20	E102B TEMP. ALARM	10
4"C	1	20	E102C PRESSURE RELIEF	12
4"C	1	20	E102E PANIC ALARM	14
4"C	1	20	E103D COOLER COIL	16
4"C	1	20	E103F DRAIN LINE HEATER	18
4"C	1	20	E145 TABLE RECEPT	20
4"C	1	20	E144 TABLE RECEPT	22
4"C	1	20	E145 TABLE RECEPT	24
4"C	1	20	E151 FIRE PROT. SYSTEM	26
4"C	1	20	E153M HEAT SENSOR	28
4"C	1	20	E153M HEAT SENSOR	30
4"C	1	20	E145 TABLE RECEPT	32
4"C	1	20	E144 TABLE RECEPT	34
4"C	1	20	E161 CONVECTION OVEN	36
4"C	1	20	E161 CONVECTION OVEN	38
4"C	1	20	E162 CONVECTION	40
С	3	40	E164 TILT BRAISING PAN	42
				44
				46
4"C	1	20	E103D COOLER COIL	48
4"C	1	25	E171 COMBI OVEN	50
4"C	1	20	E172 COMBI OVEN	52
4"C	1	20	E151 FIRE PROT. SYSTEM	54
4"C	2	20	E103C FREEZER COIL	56
				58
4"C	1	20	E633 GRIDDLE	60
4"C	1	20	E704 FRYER	62
4"C	1	20	E704 FRYER	64
4"C	2	20	E103C FREEZER COIL	66
				68
С	2	35	E103.1 REFR. SYSTEM	70
				72
	1	20	SPARE	74
	1	20	SPARE	76
	1	20	SPARE	78
	1	20	SPARE	80
	1	20 20	SPARE SPARE	82 84
	1	20	SPARE	86
	1	20	SPARE	88
	1	20	SPARE	00 90
	1	20	SPARE	90
	1	20	SPARE	92
	1	20	SPARE	96
	1	20	SPARE	98
	1	20	SPARE	100
	1	20	SPARE	102
		20	SPARE	104
		20	SPARE	106
	1	20	SPARE	108
	1	20	SPARE	110
	1	20	SPARE	112
				114
	1	20	SPARE	114
	1 3	20 40		114
	•		AHU-3 (EXISTING MSBB)	

Mounting: EXISTING Enclosure: EXISTING A.I.C. Rating: EXISTING					Volts: 480/277 Wye Phases: 3 Wires: 4						Frame MCB	Mains Type: MCB Frame Rating: MCB Rating: 400 A Supply From:			
	Circuit Description	Trip (amp s)	Pol es	Wire Size	Apparei	A nt Power amps)	Appare	B nt Power amps)	Appare	C nt Power amps)	Wire Size	Pol es	Trip (amp s)		Ci
1	AHU-A1-5	15	3	4#12, #12G, 3/4"C	803	2105					4#12, #12G, 3/4"C	3	20	LEF-	L1
3							803	2105							
5									803	2105					
7	EXISTING	70	3		0	0						3	70	EXIS	TI
9							0	0							
11									0	0					
13	EXISTING	70	3		0	0						3	70	EXIS	;TII
15							0	0							
17									0	0					
19	SPARE	20	3		0	0						3	60	EXIS	TI
21							0	0							
23									0	0					
25	EXISTING	30	3		0	0						3	30	EXIS	;TII
27							0	0							
29									0	0					
31	EXISTING SPD	20	3		0	0						3	20	EXIS	;TII
33							0	0							
35									0	0					
				Total Load:	290	9 VA	290	9 VA	290	9 VA					
				Total Amps:	<b>1</b> 1	A	1	1 A	<b>1</b> 1	A					
Load	l Classification			Connect	ed Load	De	mand Fa	actor	Estimat	ed Dema	nd		P	anel	To
Moto	pr			8726	6 VA		100.00%	6	87	26 VA					
											То	tal C	onn. L	.oad:	87
													t. Dem		
													n. Cur		
											Total Est. D				

Notes: 1. PANELBOARD SHALL BE EXISTING TO REMAIN

Mounting: RECESSED Enclosure: NEMA 4X A.I.C. Rating: 45,000						Volts: 120/208 WyeMains Type: MCBPhases: 3Frame Rating: 400 AWires: 4MCB Rating: 400 ASupply From: MSBB								
Circuit Description	Trip (amp s)	Pol es	Wire Size		4	E	3		0	Wire Size	Pol es	Trip (amp s)	Circuit Description	
1 E201A LOAD CENTER	100	3	4#1, #8G, 1-1/2"C	7200	7200					4#3, #8G, 1-1/2"C	3	80	E201A LOAD CENTER	
3						7200	7200							4
5								7200	7200					(
7 E201A LOAD CENTER	80	3	4#3, #8G, 1-1/2"C	7200	384	7000	004			4#12, #12G, 3/4"C	3	20	E708 SCRAP COLLECTOR	
9						7200	384	7000	204					1
11 13 KITCHEN SOFT WATER				1900	180			7200	384			 20		-
13 KITCHEN SOFT WATER 15 E10 CONV. RECEPT	20	1	2#12, #12G, 3/4"C 2#12, #12G, 3/4"C	1800	180	720	720			2#12, #12G, 3/4"C 2#12, #12G, 3/4"C	1		WH-1 (K) E11 CONV. RECEPT	
17 E11 CONV. RECEPT	20	1	2#12, #12G, 3/4 C			720	720	720	1924	2#12, #12G, 3/4 C	2	20	E109A ICE MACHINE	1
19 E139 INSUL. MOBILE	20	1	2#12, #12G, 3/4°C	1800	1924			720	1924	2#10, #100, 3/4 0				
21 E134 40QT MIXER	20	3	4#12, #12G, 3/4"C	1000	1524	672	672			4#12, #12G, 3/4"C	3	20	E134 40QT MIXER	2
23							512	672	672					2
25				672	672									2
27 E139 INSUL. MOBILE	20	1	2#12, #12G, 3/4"C			1800	384			4#12, #12G, 3/4"C	3	20	E708 SCRAP COLLECTOR	2
29 E11 CONV. RECEPT	20	1	2#12, #12G, 3/4"C					720	384					3
31 E11 CONV. RECEPT	20	1	2#12, #12G, 3/4"C	720	384									3
33 E821 BLAST CHILLER	30	3	4#10, #10G, 3/4"C			1200	1200			4#10, #10G, 3/4"C	3	30	E821 BLAST CHILLER	:
35								1200	1200					
37				1200	1200									
39 TEF-K-1	20	1	2#12, #12G, 3/4"C			120	180			2#12, #12G, 3/4"C	1	20	WH-2 (K)	4
41 FCU-K1-1	20	2	2#12, #12G, 3/4"C					1404	180	2#12, #12G, 3/4"C	1	20	RP-1 (K)	4
43				1404	1404					2#12, #12G, 3/4"C	2	20	FCU-K1-2	4
45 TEF-K-2	20	2	2#12, #12G, 3/4"C			600	1404	-						4
47								600	1200	2#12, #12G, 3/4"C	1	20	E644 CORD REEL	4
49 E644 CORD REEL	20	1	2#12, #12G, 3/4"C	1200	1200	-				2#12, #12G, 3/4"C	1		E644 CORD REEL	5
51 E644 CORD REEL	20	1	2#12, #12G, 3/4"C			1200	1200	1000		2#12, #12G, 3/4"C	1	20	E644 CORD REEL	Ę
53 E644 CORD REEL	20	1	2#12, #12G, 3/4"C					1200	0		1		SPARE	!
55 SPARE	20	1		0	0	0	0				1	20	SPARE	t t
57 SPARE 59 SPARE	20	1				0	0	0	0		1	20 20	SPARE SPARE	
59 SPARE 61 SPARE	20	1		0	0			0	0		1		SPARE	6
63 SPARE	20	1		0	0	0	0				1	20	SPARE	(
65 SPARE	20	1				0	0	0	0		1		SPARE	(
67 SPARE	20	1		0	0			0	0		1	20	SPARE	(
69 SPARE	20	1		0	5	0	0				1		SPARE	
71 SPARE	20	1				-	-	0	0		1	20	SPARE	7
73 SPARE	20	1		0	0			-	-		1	20	SPARE	
75 SPARE	20	1			-	0	0				1	20	SPARE	7
77 SPARE	20	1						0	0		1		SPARE	7
79 SPD-K-C/D	30	3		0	0						1	20	SPARE	8
81						0	0				1	20	SPARE	8
83								0	0		1	20	SPARE	8
			Total Load:		4 VA 5 A		6 VA 4 A		60 VA 4 A					
			Total Amps:	٥١ 		204	T //	204	- <i>r</i>					
oad Classification			Connecte		De	emand Fa			ed Dema	Ind		Ρ	anel Totals	
lotor			7476			100.00%			76 VA					
Receptacle			7200			100.00%			00 VA				.oad: 105860 VA	
litchen			91184	1 VA		65.00%		592	270 VA				and: 73946 VA	
													rent: 294 A	
										Total Est. D	emar	nd Cur	rent: 205 A	

3

PANEL SHALL HAVE TWO SECTIONS WITH 42 SINGLE SLOT POLES IN EACH SECTION.

4

Circuit Description	
_1-1	2
	4
	6
TING	8
	10
	12
TING	14
	16
	18
TING	20
	22
	24
TING	26
	28
	30
TING	32
	34
	36
<b>Totals</b>	
8726 VA	
8726 VA	
10 A	

10 A	

	Mounting: RECESSED Enclosure: NEMA 4X A.I.C. Rating: 45,000							120/208 3 4	Wye		Mains Type: MCB Frame Rating: 400 A MCB Rating: 400 A Supply From: MSBB				
	Circuit Description	Trip (amp s)	Pol es	Wire Size	Apparer	A nt Power amps)	Apparer	3 nt Power amps)	Apparer	C nt Power amps)	Wire Size	Pol es	Trip (amp s)	Circuit Des	
1	E811 SODA DISPENSER	20	1	2#12, #12G, 3/4"C	1440	360					2#12, #12G, 3/4"C	1	20	E813 JUICE DIS	
3	E812 TEA/COFFEE BREWER	20	1	2#12, #12G, 3/4"C			1680	1440			2#12, #12G, 3/4"C	1	20	E814 ICE MACH	
5	E811 SODA DISPENSER	20	1	2#12, #12G, 3/4"C					1440	1680	2#12, #12G, 3/4"C	1	20	E812 TEA/COFF	
7	E813 JUICE DISPENSER	20	1	2#12, #12G, 3/4"C	360	720					2#12, #12G, 3/4"C	1	20	E10 CONV. REC	
9	E193 REFRIGERATOR	20	1	2#12, #12G, 3/4"C			1000	1800			2#12, #12G, 3/4"C	1	20	E195 FREEZER	
11	E189 REFRIGERATOR	20	1	2#12, #12G, 3/4"C					1032	1032	2#12, #12G, 3/4"C	1	20	E189 REFRIGER	
13	N DINING LIGHTING	20	1	2#10, #10G, 3/4"C	1284	900					2#12, #12G, 3/4"C	1	20	E804 PIZZA PRE	
15	E153 HOOD LIGHTS	20	1	2#12, #12G, 3/4"C			1200	1200			2#12, #12G, 3/4"C	1	20	E153M HEAT SE	
17	E153 HOOD LIGHTS	20	1	2#12, #12G, 3/4"C					1200	1200	2#12, #12G, 3/4"C	1	20	E153M HEAT SE	
19	E10 CONV. RECEPT	20	1	2#12, #12G, 3/4"C	720	720					2#12, #12G, 3/4"C	1	20	E10 CONV. REC	
21	E819 GAS GRIDDLE	20	1	2#12, #12G, 3/4"C			720	1612			2#12, #12G, 3/4"C	2	20	E187 HEATED C	
23	E187 HEATED CABINET	20	2	2#12, #12G, 3/4"C					1612	1612					
25					1612	1612					2#12, #12G, 3/4"C	2	20	E187 HEATED C	
27	W DINING LIGHTING	20	1	2#10, #10G, 3/4"C			1320	1612							
29	DINING LIGHTING	20	1	2#10, #10G, 3/4"C					1160	1241	2#10, #10G, 3/4"C	1	20	E DINING LIGHT	
31	E DINING LIGHTING	20	1	2#10, #10G, 3/4"C	1260	941					2#10, #10G, 3/4"C	1	20	SERVERY/KITCI	
33	KITCHEN LIGHTING	20	1	2#10, #10G, 3/4"C			1248	324			2#10, #10G, 3/4"C	1	20	RR LIGHTING	
35	W DINING RECEPT	20	1	2#10, #10G, 3/4"C					1080	1080	2#10, #10G, 3/4"C	1	20	W DINING RECE	
37	ENRTY RECEPT	20	1	2#10, #10G, 3/4"C	720	360					2#12, #12G, 3/4"C	1	20	ENTRY RECEPT	
39	DINING RECEPT	20	1	2#12, #12G, 3/4"C			720	720			2#10, #10G, 3/4"C	1	20	DINING RECEPT	
41	DINING RECEPT	20	1	2#12, #12G, 3/4"C					1080	720	2#10, #10G, 3/4"C	1	20	N DINING RECE	
43		20	1	2#10, #10G, 3/4"C	1080	360					2#12, #12G, 3/4"C	1	20	JANITOR/STOR/	
45	RR RECEPT	20	1	2#12, #12G, 3/4"C			540	540			2#10, #10G, 3/4"C	1	20	RR RECEPT	
47	1 1-1	20	1	2#12, #12G, 3/4"C					400	300	2#12, #12G, 3/4"C	1	20	VRG-K-5,6,7	
49	- ) - ) -	20	1	2#12, #12G, 3/4"C	300	500					2#12, #12G, 3/4"C	1	20	VRH-K-11,12,13,	
51		20	1	2#12, #12G, 3/4"C			720	1338			2#12, #12G, 3/4"C	1	20	W DINING LIGH	
53		20	1	2#12, #12G, 3/4"C					360	720	2#12, #12G, 3/4"C	1	20	E10 CONV. REC	
55		30	3		0	0						1	20	SPARE	
57							0	0				1	20	SPARE	
59									0	0		1	20	SPARE	
				Total Load: Total Amps:		9 VA 7 A		9 A		9 VA 3 A					
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Mote				1500			100.00%			00 VA				oad: 53931 VA	
Pow	/er			720	\/Δ		100 00%		72	20 VA	⊥ Tota	al Es	t Dem	and: 44345 VA	

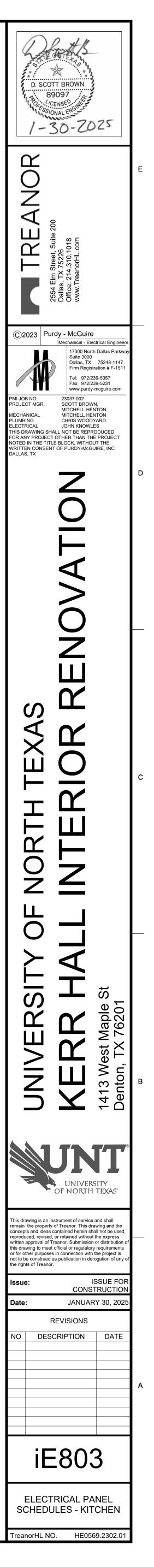
Lighting	IUTI5 VA	125.00%	12044 VA		
Motor	1500 VA	100.00%	1500 VA	Total Conn. Load:	53931 VA
Power	720 VA	100.00%	720 VA	Total Est. Demand:	44345 VA
Receptacle	17040 VA	79.34%	13520 VA	Total Conn. Current:	150 A
Kitchen	24556 VA	65.00%	15961 VA	Total Est. Demand Current:	123 A

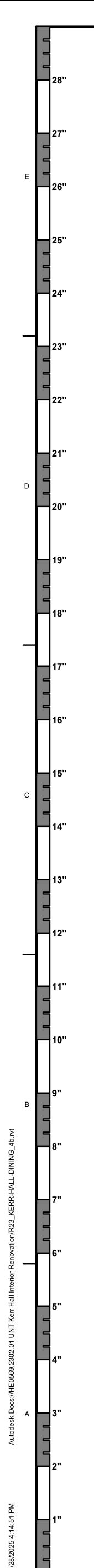
1. PANELBOARD SHALL BE A SINGLE SECTION PANELBOARD WITH ONE 60 SINGLE POLE SLOT SECTION.

	Mountin Enclosu A.I.C. Ratin	Volts: 480/277 Wye Phases: 3 Wires: 4						Mains Type: MCB Frame Rating: 225 A MCB Rating: 225 A Supply From: MSB1														
	Circuit Description	Trip (amp s)	Pol es								Wire Size	Apparei	A nt Power amps)	Appare	B nt Power amps)	Apparer	C nt Power amps)	Wire Size	Pol es	Trip (amp s)	Circuit Description	
1	E250 DISHMACHINE	35	3	4#8, #10G, 1"C	7728	8005					4#8, #10G, 1"C	3	40	E252 BOOSTER HEATER	2							
3							7728	8005							4							
5									7728	8005					6							
7	E805 WASH HEATER	45	3	4#6, #10G, 1"C	9806	10775					4#6, #10G, 1"C	3	50	E805A POWER RINSE	8							
9							9806	10775							10							
11									9806	10775					12							
13	E805B MOTORS/CONTROLS	20	3	4#12, #12G, 3/4"C	1745	9003					4#6, #10G, 1"C	3	45	E805C BOOSTER OPTION	14							
15							1745	9003							16							
17									1745	9003					18							
	REF-K-1	20	3	4#12, #12G, 3/4"C	2770	3601					4#12, #12G, 3/4"C	3	20	E256 POWERWASH SINK	20							
21							2770	3601							22							
23									2770	3601					24							
	E256 POWERWASH SINK	20	3	4#12, #12G, 3/4"C	3601	333					4#12, #12G, 3/4"C	3	20	KEF-1	26							
27							3601	333							28							
29									3601	333					30							
	KEF-2	20	3	4#12, #12G, 3/4"C	333	0						1	20	SPARE	32							
33							333	0				1	20	SPARE	34							
35									333	0		1	20	SPARE	36							
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<b>Note</b> 1. P/	NS: ANELBOARD SHALL BE A SING	GLE SE	CTIC	ON PANELBOARD W	/ITH ONE	42 SING	LE POLE	SLOT SE	ECTION.													

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## **GENERAL NOTES**

- GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS AND OTHER REQUIREMENTS OF DIVISION 1, AS WELL AS, THE ELECTRICAL, AUDIO VISUAL, AND SECURITY PLANS AND SPECIFICATIONS, MAY APPLY TO THE WORK SPECIFIED.
- PROVIDE ALL MATERIALS, COMPONENTS, TOOLS, AND LABOR TO COMPLETE A TELECOMMUNICATIONS INFRASTRUCTURE AS SHOWN IN THE STRUCTURED CABLING SYSTEM DOCUMENTS, CONTRACTS AND DRAWINGS.
- CAREFULLY EXAMINE THE SITE TO DETERMINE THE EXTENT OF WORK AND CONDITION UNDER WHICH IT WILL BE DONE
- REVIEW AND VERIFY CONTRACT DOCUMENTS IN RELATION TO FIELD CONDITIONS TO VERIFY ACCURACY, CONFIRMING WITH OWNER, OR THEIR DESIGNATED REPRESENTATIVE, THAT RELATED WORK HAS BEEN COMPLETED PRIOR TO PROCEEDING WITH INSTALLATION.
- BRING DISCREPANCIES BETWEEN DESIGN DOCUMENTS AND ACTUAL FIELD CONDITIONS TO THE IMMEDIATE ATTENTION OF OWNER, OR THEIR DESIGNATED REPRESENTATIVE FOR CLARIFICATION.
- REFER TO TECHNOLOGY, AUDIO VISUAL AND SECURITY CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS AS A WHOLE IN THE BIDDING AND INSTALLATION OF THIS PROJECT.
- NOTE AND REPORT TO GC, IF THE COMMUNICATION SYSTEM PATHWAY DO NOT COMPLY WITH COMMUNICATIONS SPECIFICATIONS AND DRAWINGS PRIOR TO INSTALLING CABLE.
- TAKE NECESSARY MEANS TO ASSURE COMMUNICATION SYSTEM COMPONENTS ARE PROTECTED FROM MECHANICAL DAMAGE BEFORE, DURING AND AFTER CONSTRUCTION.
- **REFERENCE DIVISION 27 SPECIFICATIONS FOR ITEMIZED PRICING** REQUIREMENTS.
- 10 ALL COMPONENTS AND DEVICES SHOWN ON THESE DRAWINGS ARE FOR APPROXIMATE LOCATION AND POSITIONING ONLY. VERIFY EXACT LOCATIONS WITH THE OWNER OR G.C. PRIOR TO INSTALLATION.
- 11. ADHERE TO ALL TELECOMMUNICATIONS CABLING STANDARDS SET FOURTH IN THE ANSI-TIA 568-C STANDARDS.

## COMMUNICATIONS ROOMS

- RACK ELEVATIONS AND NETWORK EQUIPMENT ARE SHOWN FOR COORDINATION AND INFORMATIONAL PURPOSES ONLY.
- INSTALL 8'H X 4'W X ³/₄' T GRADE ACX PAINTED FIRE RATED PLYWOOD ON DESIGNATED WALLS OF THE TELECOM ROOMS. PLYWOOD SHALL BE PAINTED TWO COATS OF FIRE RETARDANT WHITE PAINT, LEAVING FIRE RATED STAMP EXPOSED.
- **GRAPHIC REPRESENTATION OF PATCH PANELS AND TERMINAL** BLOCKS DO NOT REPRESENT EXACT QUANTITIES. CONTRACTOR SHALL PROVIDE SUFFICIENT QUANTITIES FOR ALL CABLING, PLUS 25%.
- FURNISH AND INSTALL VELCRO CABLE SUPPORT, CABLE MANAGEMENT AND ASSOCIATED HARDWARE WITHIN TELECOMMUNICATIONS ROOMS.
- PROVIDE FLOOR PLAN AS-BUILT ON "D" SIZE PAPER, LAMINATED WITH PLASTIC AND MOUNTED BEHIND CUT PLEXI-GLASS ON THE WALL IN EACH TELECOM ROOM. REFERENCE TELECOM ROOM ELEVATIONS FOR AS-BUILT PLACEMENT.

## **ELECTRICAL**

- FOR SPECIFIC POWER AND RECEPTACLE REQUIREMENTS IN THE PROJECT REFERENCE ELECTRICAL SPECIFICATIONS AND DRAWINGS AND VERIFY WITH COMMUNICATION SPECIFICATIONS AND DRAWINGS. REPORT TO GC DISCREPANCIES PRIOR TO PURCHASE OR INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL INSTALL NORMAL AND GENERATOR BACK-UP POWER AS REQUIRED

## **GROUNDING AND BONDING**

- BOND ALL METAL RACKS, FRAMES, CABINETS AND MISCELLANEOUS EQUIPMENT ENCLOSURES TOGETHER USING GREEN INSULATED COPPER WIRE SO THAT ALL EQUIPMENT AND STRUCTURED CABLING RACKS ARE AT THE SAME GROUND POTENTIAL. A VOLT-O-METER (VOM) MEASUREMENT BETWEEN ANY TWO POINTS ON METAL RACKS AND EQUIPMENT ENCLOSURES IN THE TELECOMMUNICATIONS ROOMS SHALL BE LESS THAN 1.25 VOLTS DC OR AC POTENTIAL.
- BOND TOGETHER ALL GROUNDS TO FORM A SINGLE GROUNDING ELECTRODE SYSTEM AS REQUIRED IN ARTICLE 250 OF NFPA 70 -NATIONAL ELECTRICAL CODE.
- PREPARE SURFACES TO PROVIDE A PROPER PATH TO GROUND. ANY SURFACE TO BE GROUNDED MUST BE FREE OF PAINT OR OTHER COATING THAT MIGHT PREVENT AN EFFECTIVE GROUND. PAINT SHOULD BE SCRAPED AWAY UNTIL METALLIC SURFACE HAS BEEN EXPOSED BEFORE THE ATTACHMENT OF GROUNDING OR BONDING WIRE.
- INSTALL MANUFACTURER PROVIDED STAR WASHERS PER PANEL INSTALLED IN ORDER FOR PANELS TO BE BONDED TO RACK. ONLY ONE (1) STAR WASHER IS REQUIRED PER PANEL.
- ADHERE TO ALL GROUNDING AND BONDING REQUIREMENTS SET FOURTH IN THE ANSI-J-STD-607-D COMMERCIAL GROUNDING AND BONDING STANDARDS.
- TERMINATE ALL INCOMING/OUTGOING OSP VOICE CATEGORY BACKBONE CABLES ON WALL FIELD WITH BONDED PRIMARY PROTECTION BLOCKS AND SOLID STATE MODULES.

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TERMINATE ALL INCOMING/OUTGOING OSP DATA OR POE UTILIZED CATEGORY CABLES ON WALL FIELD ON BONDED IN-LINE SURGE PROTECTOR RATED AT PROPER CLAMPING VOLTAGE FOR THE SPECIFIED DATA CABLING AND POE APPLICATION.

## **COMMUNICATIONS CABLE**

- CABLES TO EACH DATA OUTLET. TYPE.

- OUTLET.
- STRAINING CONNECTIONS.
- TO MINIMIZE DUST ON CONTACTS.
- FROM OWNER IT.
- RISER OR PLENUM.
- EXITING THE BUILDING
- FOR CABLE AND OUTLET TYPE
- OUTLET.
- PANEL
- REQUIREMENTS.
- SPACES.

## IT DRAWINGS INDEX

Г000B	TELECOM
Г101B	TELECOM
Г151B	TELECOM
Г500B	TELECOM
[501B	TELECOM

CABLING CONTRACTOR MUST BE A CERTIFIED INSTALLER AND BE ABLE TO PROVIDE MANUFACTURER WARRANTY.

TERMINATE ALL CATEGORY JACK INSERTS TO 568-B WIRING SCHEME.

HORIZONTAL DATA CABLING SHALL CONSIST OF PLENUM 4PR UTP REFER TO 271500 SPECIFICATION SECTION FOR CABLE AND OUTLET

WIRELESS OUTLET LOCATIONS SHALL CONSIST OF ONE (1) PLENUM 4PR UTP CABLE TO EACH ACCESS POINT. REFER TO 271500 SPECIFICATION SECTION FOR CABLE AND OUTLET TYPE.

NO HORIZONTAL CABLE SHALL BE LONGER THAN 100 METERS. IF THE CONTRACTOR BELIEVES ANY STATION CABLE WILL EXCEED THE 100 METERS (295 FEET) LIMIT WRITTEN APPROVAL FROM THE OWNER'S ARCHITECT/ENGINEER WILL BE REQUIRED PRIOR TO INSTALLATION.

TERMINATE HORIZONTAL DATA CABLING ON RACK MOUNTED PATCH PANELS. LOCATED IN TELECOM ROOM, AND ON JACK INSERTS AT THE

PROVIDE LACING BARS TO RESTRAIN CABLES AND TO PREVENT

COMMUNICATIONS CABLE SHALL NOT BE PAINTED.

PROVIDE ALL NECESSARY MEANS TO PROTECT ALL DATA/VOICE/FIBER CABLING AND JACKS/PORTS FROM MECHANICAL DAMAGE AND DUST DURING CONSTRUCTION. PROVIDE PAINTERS TAPE OVER PATCH PANEL PORTS, CAPS ON FIBER BULK HEADS AND BAG OUTLET JACK INSERT TERMINATIONS DURING CONSTRUCTION

10. PROVIDE SELF-ADHESIVE VINYL OR VINYL-CLOTH WRAPAROUND TAPE MARKERS, MACHINE PRINTED WITH ALPHA NUMERIC CABLE DESIGNATIONS PER ANSI/TIA-607B STANDARDS WITH APPROVAL

11. PROVIDE PROPER RATED CABLE TYPE PER INSTALLATION TYPE: OSP,

12. ALL CABLING INSTALLED UNDERGROUND IN CONCRETE SLABS, IN

DIRECT CONTACT WITH THE EARTH, LOCATIONS SUBJECT TO SATURATION WITH LIQUIDS AND UNPROTECTED LOCATIONS

EXPOSED TO WEATHER SHALL BE CONSTRUCTED WITH APPROPRIATE WEATHER PROOFING COMPOUNDS AND SHEATHING. PROVIDE INDOOR / OUTDOOR CABLING FOR FIBER OPTIC CABLING

13. PROVIDE ONE (1) 4-PR UTP CABLE TO EACH IP CAMERA. COORDINATE WITH SECURITY CONTRACTOR AND TY-DRAWINGS ON CAMERA CABLING INSTALLATION. REFER TO 271500 SPECIFICATION SECTION

14. PROVIDE TWO CATEGORY UTP PATCH CABLES, FOR EACH DATA

15. CONNECT WIRING IN A STRAIGHT PATTERN (NOT TURNED OVER) FROM ORIGINATION TO TERMINATION POINT. CABLE PAIRS SHALL BE ZIP TIED AND EACH CABLE LABELED ON THE BACK OF EACH PATCH

16. TWISTED PAIRS MUST REMAIN TWISTED TO WITHIN 1/4" OF CONNECTOR. THIS IS REQUIRED FOR HIGH-SPEED DATA NETWORKS.

17. DO NOT INSTALL WIRING NEAR FLUORESCENT LIGHTING. HIGH-VOLTAGE SOURCES, ELECTRICAL MOTORS, OR OTHER SOURCES OF INTERFERENCE, REFERENCE SPECIFICATIONS FOR SEPARATION

18. SPLICES WITHIN HORIZONTAL CABLE RUNS ARE NOT ACCEPTABLE.

19. ALL CABLES BEING RUN FOR HORIZONTAL DISTRIBUTION WITHIN THE PLENUM AREAS MUST BE BUNDLED TOGETHER NEATLY AND UNTANGLED, WITH CABLE TIES EVERY 12 FEET. CABLING SHALL LIE FLAT WITHIN AND BE SUPPORTED BY CABLE TRAYS, AND/OR STRUCTURES ATTACHED DIRECTLY TO THE BUILDING STRUCTURE/UPPER DECKING IN THE PLENUM AREAS OR CRAWL

20. ADHERE TO MANUFACTURERS' REQUIREMENTS FOR BENDING RADIUS AND PULLING TENSIONS FOR ALL CABLE RUN

21. OUTLET FACEPLATES MUST BE LABELED WITH THE JACK NUMBERS OF PATCH PANEL PORTS AND MDF/IDF ROOM NUMBERS PER ANSI/TIA-607B AND OWNER STANDARDS.

- INDEX (KITCHEN & DINING)

- FLOOR PLAN (KITCHEN & DINING)
- REFLECTED CEILING PLAN (KITCHEN & DINING) - DETAILS (KITCHEN & DINING)
- DETAILS (KITCHEN & DINING)

# **COMMUNICATIONS PATHWAYS**

- INSTALL ALL 4" BACKBONE CONDUITS WITH THREE (3) 3"-3 SLOTTED FABRIC MESH INNERDUCTS PER CONDUIT.
- VERIFY CABLE J-HOOKS PATHWAY ROUTING PRIOR TO INSTALLATION OF HORIZONTAL CABLES TO ENSURE ABLE PATHWAY DOES NOT CAUSE CABLE LENGTHS TO EXCEED MAXIMUM DISTANCE.
- BACK BOXES INSTALLED FOR COMMUNICATIONS DATA AND VOICE WIRING TERMINATION SHALL BE 4 11/16"X4 11/16"X2.5" DEEP BOXES TO ALLOW FOR THE REQUIRED WORKING CLEARANCE OF THE UTP CABLE.
- INSTALL SINGLE GANG MUD RINGS ON ALL COMMUNICATIONS WALL 4 BOXES.
- CONDUITS TO COMMUNICATIONS WALL BOXES SHALL BE MINIMUM OF 1". DIAMETER AND SHALL BE COMPLETE WITH NYLON PULL STRING.
- PROVIDE CABLE J-HOOKS RATED FOR SUPPORTING SPECIFIED CATEGORY DATA CABLING THAT IS NOT IN CONDUIT. COORDINATE WITH GC ON CABLE PATHS PRIOR TO INSTALLATION OF CABLING.
- DO NOT EXCEED MANUFACTURERS OR NEC MAXIMUM RECOMMENDED FILL RATIO FOR ANY GIVEN PATHWAY.
- SUPPLY SOLUTIONS AND SHOP DRAWINGS SUBMITTALS FOR CONDUIT SEALING MATERIALS AND SYSTEMS, ENSURE SYSTEMS ARE INSTALLED PER MANUFACTURERS UL LISTING
- PROPERLY FIRE STOP ALL TELECOM PATHWAY CONDUITS AND UNUSED "TELECOM INTENDED USE CONDUITS" PRIOR TO SUBSTANTIAL COMPLETION.
- 10. INSTALL CONDUIT RUNS WITH NO MORE THAN TWO (2) 90 DEG. BENDS AND NOT EXCEED 100 FEET. IF THESE CONDITIONS CAN NOT BE MET. J-BOX MUST BE PLACED IN THE RUN, WITH THE ABILITY TO ACCESS BOX THROUGH THE CEILING.
- 11. CONDUITS SHALL HAVE CONNECTORS, PROTECTIVE BUSHINGS, AND PULL STRINGS AND SHALL BE GROUNDED.
- 12. COORDINATE WITH ARCHITECT AND OWNER ON ENTRY, PATHWAYS AND OUTLET BOX PLACEMENT IN MODULAR FURNITURE AND CUSTOM MILLWORK.
- 13. ADHERE TO COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS SET FOURTH IN ANSI-TIA 569-E STANDARD.
- 14. PROVIDE CONDUIT FROM EACH OUTLET BOX TO ACCESSIBLE CEILING. OUTLETS IN OPEN OR NON-ACCESSIBLE CEILINGS SHALL HAVE CONDUIT ROUTED TO THE NEAREST ACCESSIBLE CEILING OR CORRIDOR TRAY PATHWAY
- 15. CONDUIT RUNS THAT HAVE AN INTERNAL DIAMETER OF 2" OR LESS SHALL HAVE A BEND RADIUS SIX (6) TIMES THE INTERNAL CONDUIT RADIUS. IF CONDUIT RUNS HAS AN INTERNAL DIAMETER OF 2" OR MORE IT SHALL HAVE A BEND RADIUS TEN (10) TIMES THE INTERNAL CONDUIT RADIUS.
- 16. PROVIDE LONG RADIUS BENDS ON ALL 90 DEGREE TURNS. UTILIZE 45 DEGREE BENDS WHEN POSSIBLE AND PROVIDE ADDITIONAL PULL BOXES AS NEEDED TO ELIMINATE STRESS ON CABLE.
- CONDUIT "SLEEVES" ARE REQUIRED FOR CABLE INGRESS/EGRESS IN 17 ROOMS WHOSE WALLS EXTEND TO DECK (I.E FIREWALL, SOUND ABSORPTION, ETC) SLEEVE TO BE A MINIMUM 2" TO MAINTAIN A 30% FILL RATIO. COORDINATE SLEEVE SIZE REQUIREMENTS BASED ON CABLE TYPE BEING INSTALLED.
- 18. MARK WITH PERMANENT INK ALL WALL BOXES AND CONDUITS THAT ARE TO BE USED FOR DATA COMMUNICATIONS WITH THE WORD "DATA".
- 19. CORRIDOR TRAYS MUST HAVE CONTINUOUS RAIL SIDES.
- 20. PROVIDE CORRIDOR TRAYS WITH SLEEVED ACCESS THROUGH WALLS ALONG THE ROUTE.
- 21. INSTALL CORRIDOR TRAYS WITH MANUFACTURER APPROVED TRANSITIONS AND TURNS.
- 22. A MINIMUM OF 12" INCHES CLEARANCE MUST BE PROVIDED ABOVE THE TOP OF THE OVERHEAD TRAY.
- 23. PROVIDE MATERIALS, COMPONENTS, TOOLS, AND LABOR TO COMPLETE COMMUNICATIONS CABLING PATHWAY, ELECTRICAL POWER DISTRIBUTION AND GROUNDING SYSTEM AS SHOWN IN THE **DIVISION 26 AND 27 DOCUMENTS.**

AFF AP AWG CATV CON DB DEMARC EMT FR GC HH IDF IRC ISP LAN MDF MH MM OCP OFOI OTDR PB PBB PBX PVC RBB RMC SBB SM SP STP ΤB TBB TBC TR ΤS

UPS

UTP WAP

3

## **TELECOM SYMBOLS LEGEND**

∧ xD	WALL MOUNTED DATA OUTLET MOUNT AT +18" AFF UNLESS NOTED OTHERWISE. (x) = QUANTITY OF CABLES PER LOCATION UNLESS NOTED OTHERWISE.
WAP	CEILING MOUNTED WIRELESS ACCESS POINT DATA OUTLET (1) CATEGORY CABLE PER LOCATION.
CAM	CEILING MOUNTED DATA OUTLET FOR IP SECURITY CAMERA (1) CATEGORY CABLE PER LOCATION.
	WALL MOUNTED DATA OUTLET FOR IP SECURITY CAMERA (1) CATEGORY CABLE PER LOCATION.
∠ xD TV	DATA OUTLET FOR FUTURE WALL MOUNTED AV SYSTEM DIGITAL SIGNAGE DISPLAY (x) = QUANTITY OF CABLE(S) PER LOCATION. TERMINATE AT +72" AFF UNLESS OTHERWISE NOTED. REFER TO AV DRAWINGS FOR AV DEVICE LOCATION(S) AND INSTALLATION DETAIL(S).
xD TV	DATA OUTLET FOR FUTURE CEILING MOUNTED AV SYSTEM DIGITAL SIGNAGE DISPLAY (x) = QUANTITY OF CABLE(S) PER LOCATION. REFER TO AV DRAWINGS FOR AV DEVICE LOCATION(S) AND INSTALLATION DETAIL(S).
FP-xD	FLOOR POKE DEVICE (x) = QUANTITY OF CABLES PER LOCATION. WHEN LOCATED UNDER MODULAR FURNITURE, TERMINATE CABLES IN FURNITURE ASSEMBLY

## ABBREVIATIONS

ADOVE FINISHED FLOOR
ACCESS PANEL
AMERICAN WIRE GAUGE
COMMUNITY ANTENNA TELEVISION
CONDUCTOR
DECIBEL
DEMARCATION POINT
ELECTRIC METALLIC TUBING
EQUIPMENT ROOM
GENERAL CONTRACTOR
HANDHOLE
INTERMEDIATE DISTRIBUTION FRAME
INFORMATION OUTLET
INTERMEDIATE RIGID CONDUIT
INTERNET SERVICE PROVIDER
LOCAL AREA NETWORK
MAIN DISTRIBUTION FRAME
MAINTENANCE HOLE
MULTIMODE
OUTSIDE CABLE PLANT
OWNER FURNISHED OWNER INSTALLED
OPTICAL TIME DOMAIN REFLECTOMETER
PULL BOX
PRIMARY BONDING BUSBAR
PRIVATE BRANCH EXCHANGE
PAIR
POLYVINYL CHLORIDE
RACK BONDING BUSBAR
RADIO FREQUENCY
RIGID METAL CONDUIT
SECONDARY BONDING BUSBAR
SINGLEMODE
SERVICE PROVIDER
SHIELDED TWISTED PAIR
TERMINAL BLOCK
TELECOMMUNICATIONS BONDING BACKBONE
TELECOMMUNICATIONS BONDING CONDUCTOR
TELECOM ROOM
TRADE SIZE
UNINTERRUPTIBLE POWER SUPPLY
UNSHIELDED TWISTED PAIR
WIRELESS ACCESS POINT

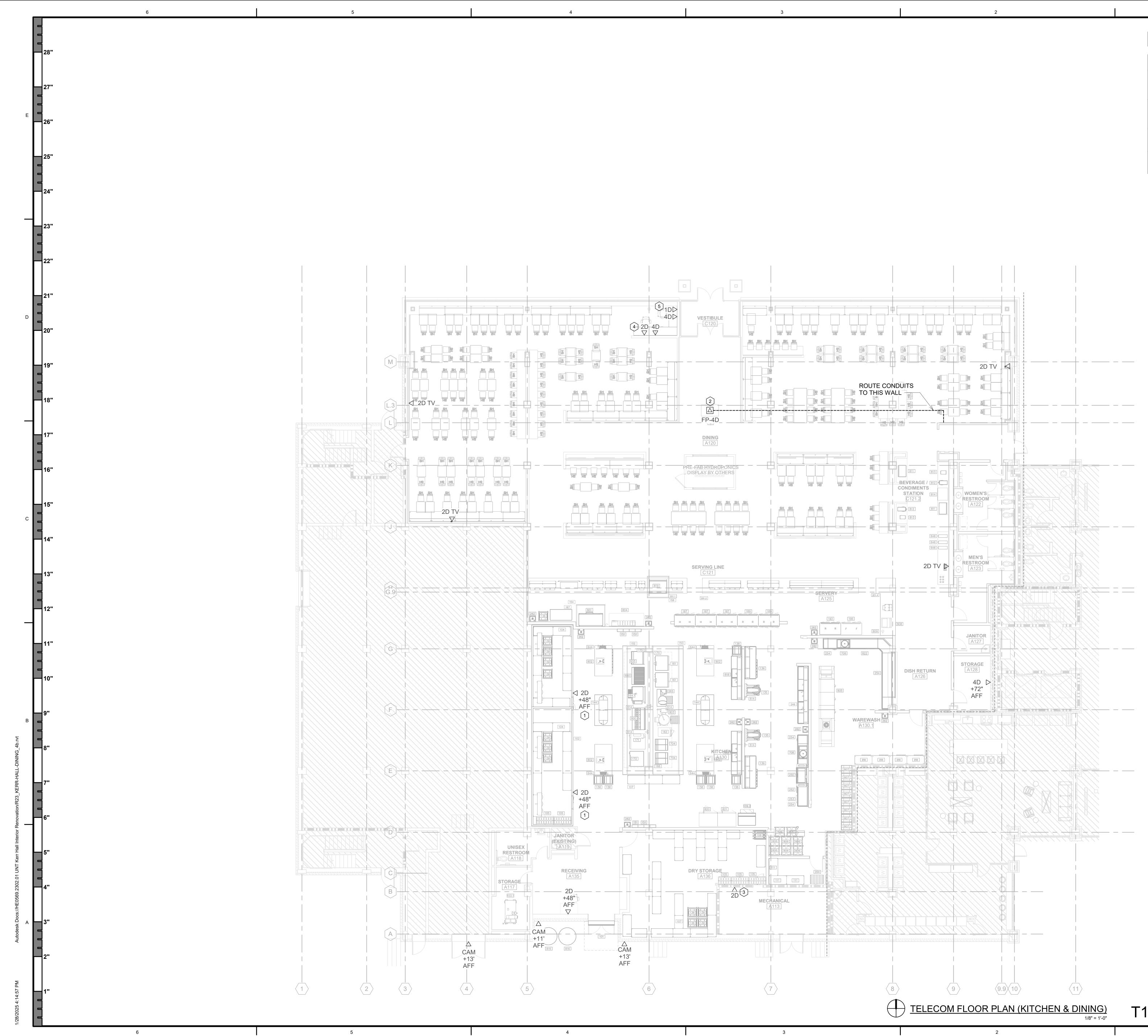
2

ABOVE FINISHED FLOOR

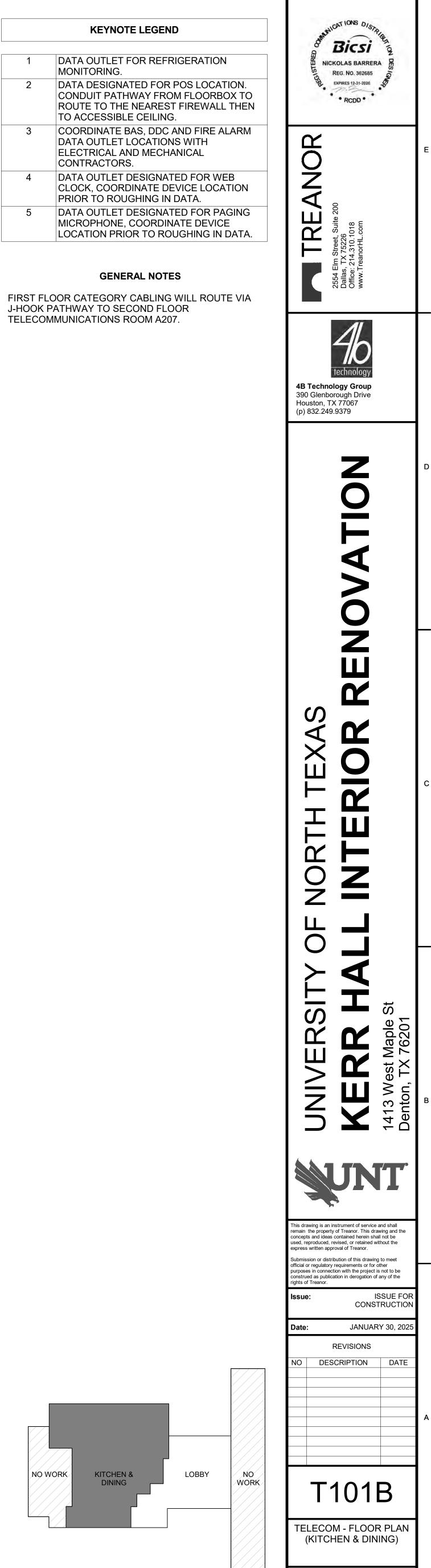
## IT RESPONSIBILITY MATRIX

IT RESPONSIBILITY MATRIX	GC	IT CONTRACTOR	OW
NETWORK CABLING TO IDF		Х	
CONDUITS	Х		
J-BOXES	Х		
POWER	Х		
FLOOR BOXES/POKE-THRU'S	Х		
DISPLAY BACK BOXES/BACKING	Х		
ACCESS PANELS	Х		
IDF/MDF BUILDOUT - RACKS, CABLE		х	
DATA SWITCHES			X - (
WIRELESS ACCESS POINT			X - (
RACK MOUNTED UPS			X - (
J-HOOK PATHWAY FOR DATA CABLING		х	
PHONES			
COMPUTERS			

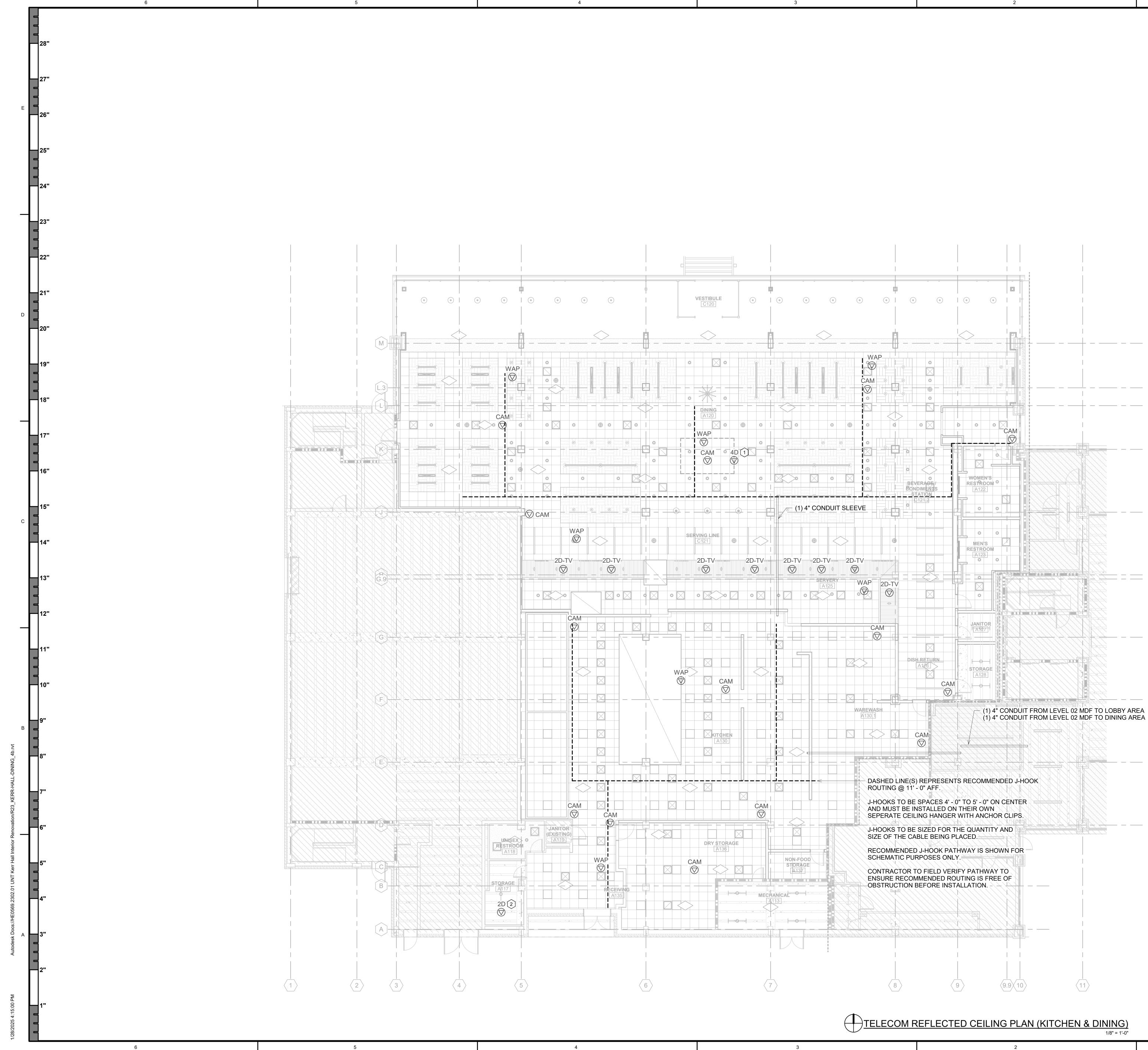
	NICKOLAS BARRERA REG. NO. 362685 EXPIRES 12-31-2026	
	2554 Elm Street, Suite 200 2554 Elm Street, Suite 200 Dallas, TX 75226 Office: 214.310.1018 www.TreanorHL.com	E
	<b>4B Technology Group</b> 390 Glenborough Drive Houston, TX 77067 (p) 832.249.9379	
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	OF NORTH TEXAS LL INTERIOR REN	С
	UNIVERSITY ( KERR HAI 1413 West Maple St Denton, TX 76201	В
OFOI) OFCI) OFOI)	This drawing is an instrument of service and shall remain the property of Treanor. This drawing and the concepts and ideas contained herein shall not be used, reproduced, revised, or retained without the express written approval of Treanor.	
X X	Issue: ISSUE FOR CONSTRUCTION Date: JANUARY 30, 2025 REVISIONS NO DESCRIPTION DATE	А
	TOOOB TELECOM - INDEX (KITCHEN & DINING) TreanorHL NO. HE0569.2302.01	



	KEYNOTE LEGEND
1	DATA OUTLET FOR REFRIGERA MONITORING.
2	DATA DESIGNATED FOR POS LO CONDUIT PATHWAY FROM FLO ROUTE TO THE NEAREST FIRE TO ACCESSIBLE CEILING.
3	COORDINATE BAS, DDC AND FI DATA OUTLET LOCATIONS WIT ELECTRICAL AND MECHANICAL CONTRACTORS.
4	DATA OUTLET DESIGNATED FO CLOCK, COORDINATE DEVICE I PRIOR TO ROUGHING IN DATA.
5	DATA OUTLET DESIGNATED FC MICROPHONE, COORDINATE D LOCATION PRIOR TO ROUGHIN



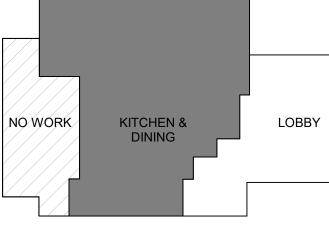
FreanorHL NO. HE0569.2302.0²



	KEYNOTE LEGEND
1	DATA DESIGNATED FOR HYDR
	ROOM (BY OTHERS), SUPPOR J HOOK AND TERMINATE IN C SURFACE MOUNT BOX CBXQ2
2	DATA OUTLET FOR REFRIGER MONITORING. FIELD COORDIN MOUNTING LOCATION WITH E AND MECHANICAL CONTRACT

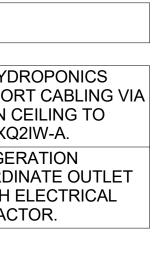
#### GENERAL NOTES

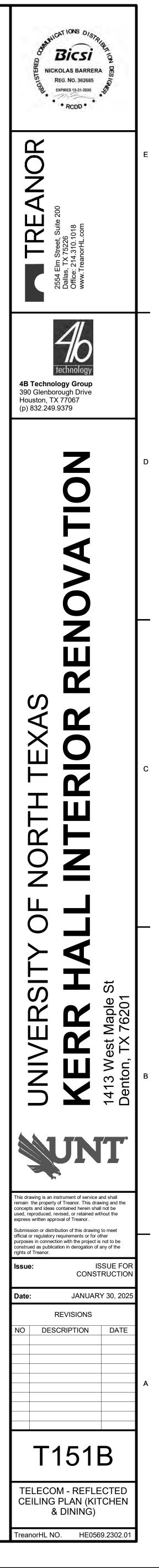
- CONTRACTOR TO PROVIDE CONDUIT PATHWAY FOR CABLE TRAVELING THROUGH OPEN 1. CEILING AREAS (AREAS EXPOSING CEILING STRUCTURE).
- NEW J-HOOK TYPE PATHWAY REQUIRED TO 2. SUPPORT CATEGORY CABLING.



1

T1



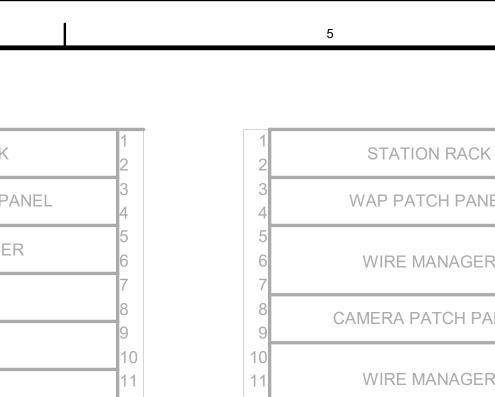


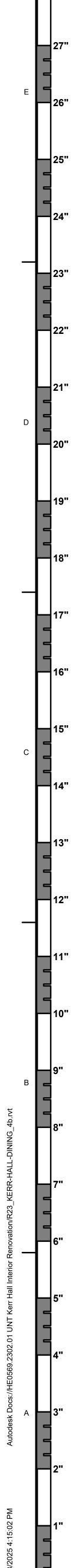
NO WORK

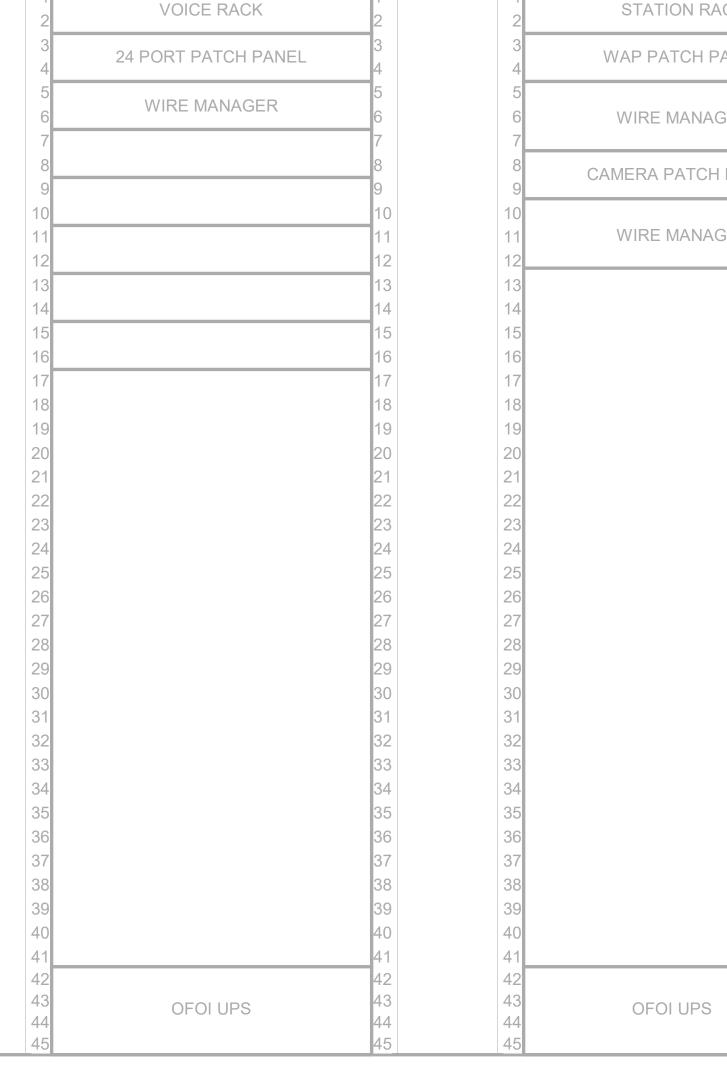








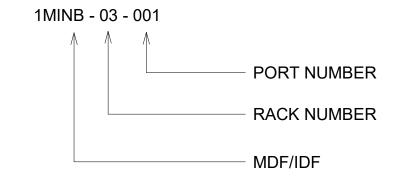


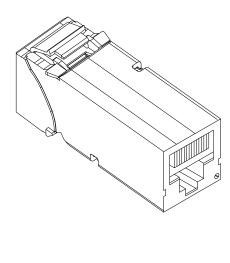




- WRAP AROUND CABLE LABEL TO BE INSTALLED AT BOTH THE WORK AREA OUTLET AND CLOSET ENDS OF ALL CABLES. INSTALL LABEL 1" FROM THE END OF THE CABLE JACKET AT BOTH ENDS.
- CABLE LABELING SHALL BE 2. MACHINE GENERATED AND NOT LESS THAN .125" IN HEIGHT.



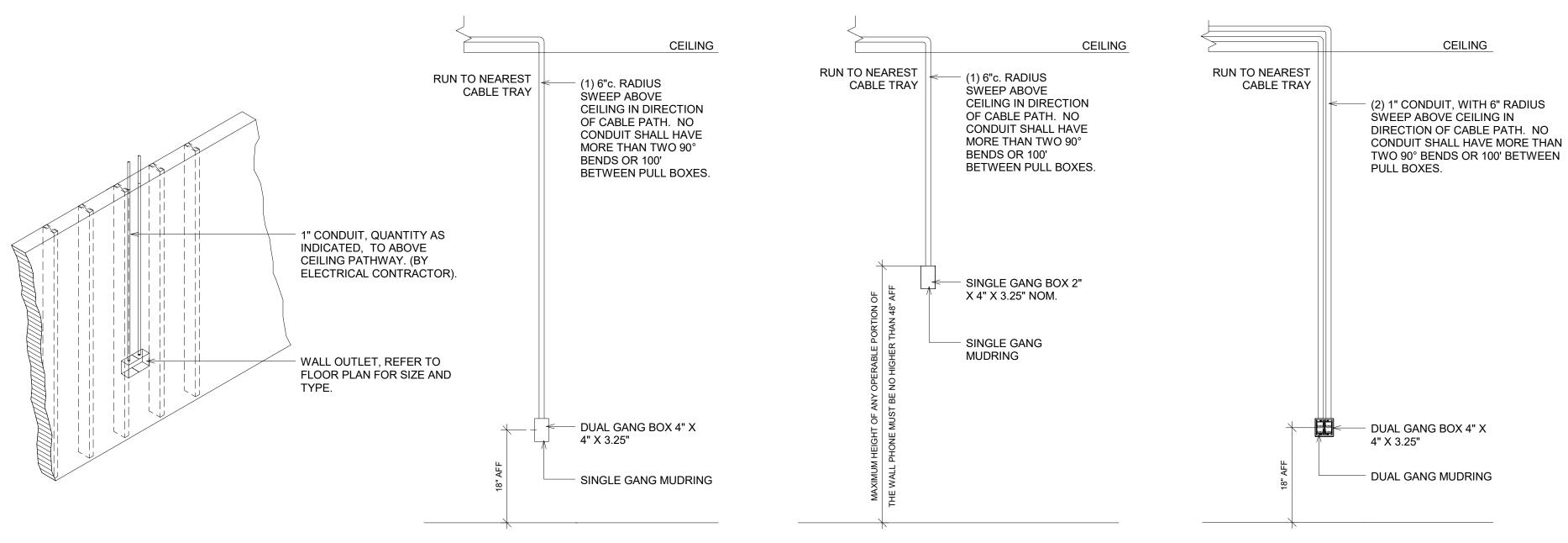




	1	1		1
CK	2	2	EQUIPMENT RACK	2
ANEL	3	3	RED CAT6A PATCH PANEL	3
	4	4		4
	5	5	FIBER	5
GER	6 7	6		6
	8	8	WIRE MANAGER	8
PANEL	9	9		9
	10	10	SWITCH	1
GER	11	11		1
	12	12	WIRE MANAGER	1
	13	13		1
	14	14		1
	15	15		1
	16 17	16 17		1
	18	18		1
	19	19		1
	20	20		2
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	40	40		4
	41	41		4
	42 43	42 43		4 4
	43	43	OFOI UPS	4
	45	45		4

## IT ROOM A207 EXISTING RACK LAYOUT

01



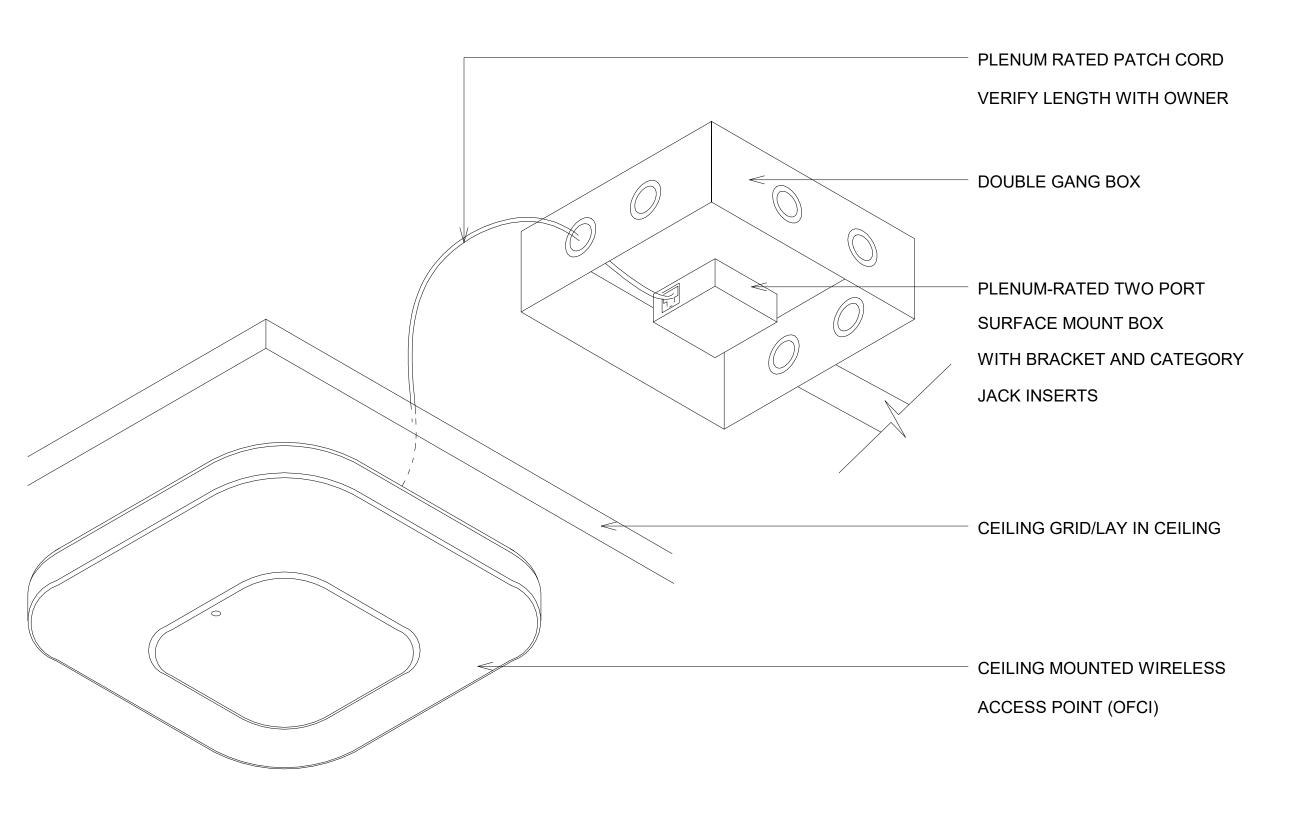
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3



4

5

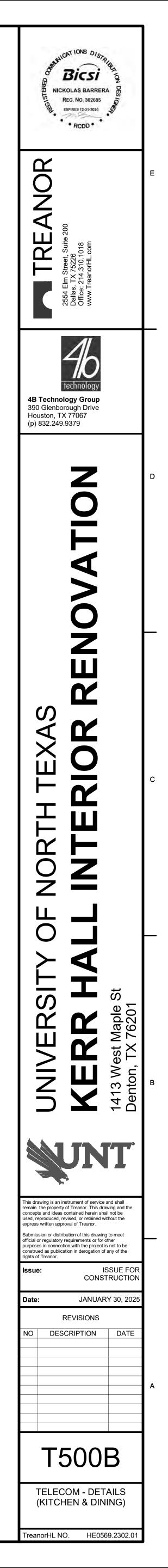


WIRELESS ACCESS POINT (WAP) ROUGH-IN N.T.S.

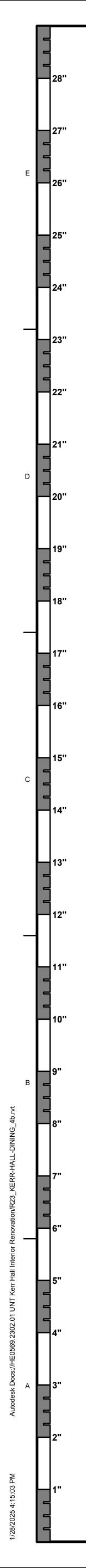
<u>DATA OUTLET ROUGH-IN</u>

N.T.S.

1



02

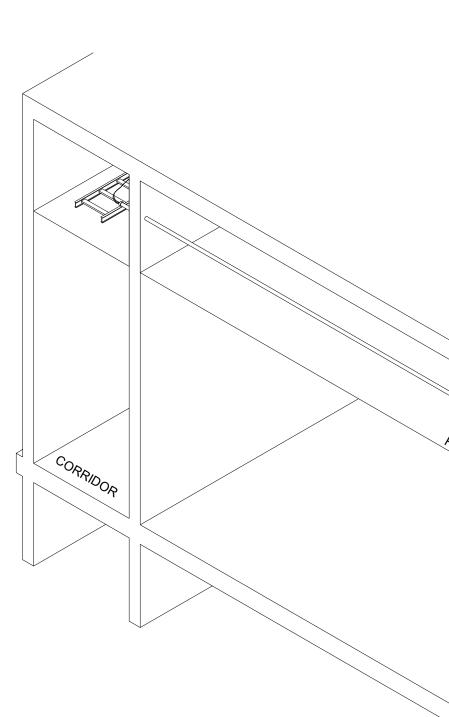


### **GENERAL NOTES:**

- A MINIMUM OF ONE CONTINUOUS 1. RUN OF CONDUIT SHALL BE PLACED FROM I/O TO ACCESSIBLE CEILING SPACE.
- ALL CONDUIT SHALL BE MIN: 1"Ø, HAVE PROTECTIVE BUSHING, AND PULL STRINGS.
- NO CABLE SHALL BE PLACED IN CONDUIT THAT DOES NOT HAVE PROTECTIVE INSULATING BUSHING PRESENT.
- CONTRACTOR SHALL 4 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.



NOTE:

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

SUPPORT WIRE

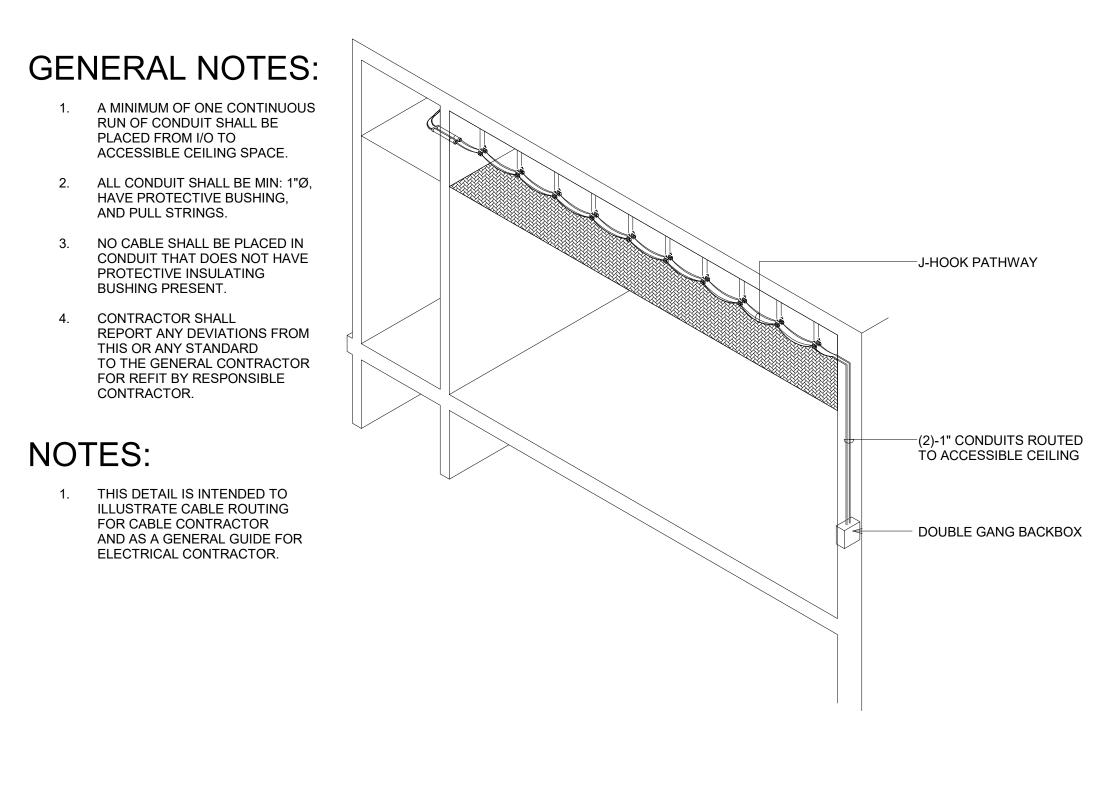
- J-HOOK CABLE SUPPORT

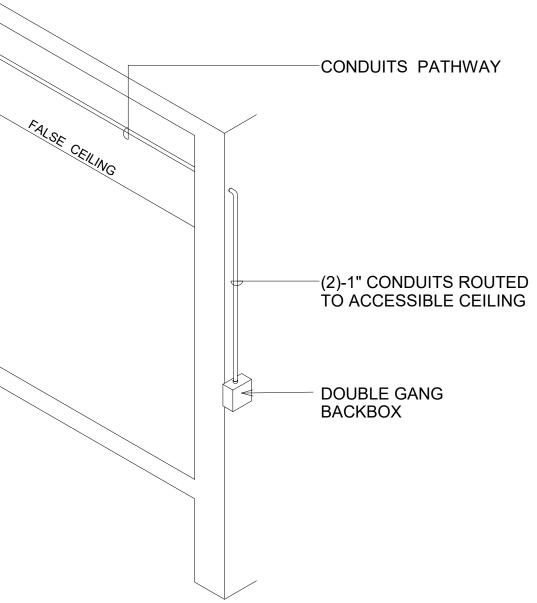
- CABLES

6

J-HOOK 03

5



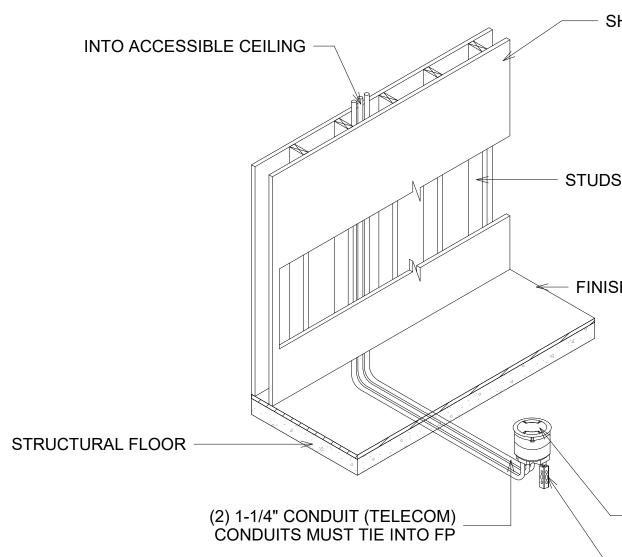


CONDUIT PATHWAY (HARD DECK CEILING) 01 N.T.S.

**GENERAL NOTES:** 

- 1. ALL FIRST FLOOR LOCATIONS REQUIRE FSR FL500-8 WITH CONCRETE FLOOR PAN.
- 2. FLOOR PLAN SHOWS INTENDED CONDUIT PATH WITH LINE TO NEAREST WALL.
- 3. "FP" ALSO REQUIRE AC POWER BY OTHERS (PATHWAY NOT SHOWN).
- 4. MOUNT TELECOM CONDUIT ABOVE CEILING TO CABLE TRAY.
- 5. PROVIDE BLANKS FOR ANY UNUSED CONNECTIVITY SPACES.

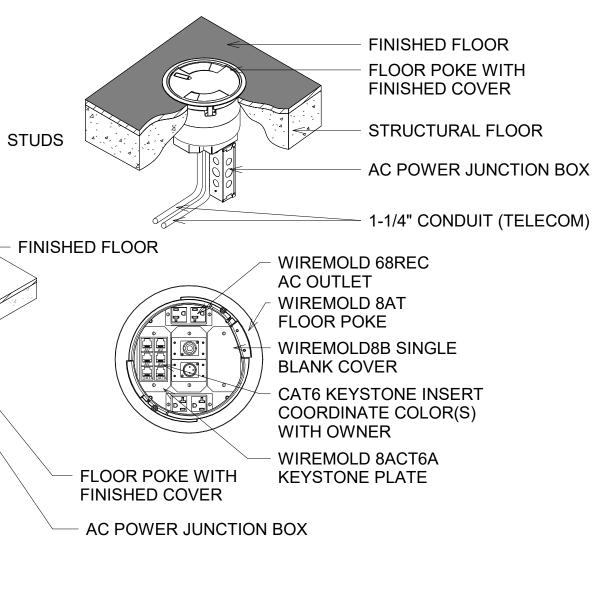
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4



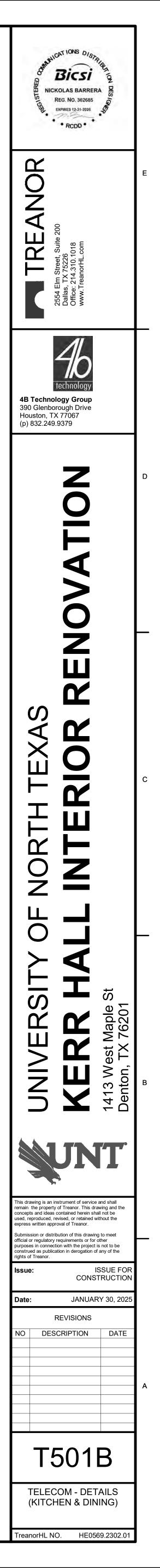
SHEET ROCK / PLYWOOD

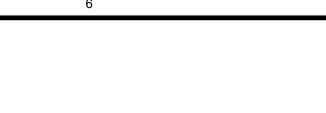


"FP" FLOOR POKE ROUGH-IN DETAIL NTS

2

4





DESCRIPTION

WALL RACK

(70V)

**IN-CEILING SPEAKER** 

DIGITAL SIGNAGE DISPLAY

INFRASRTUCTURE ONLY

DIGITAL SIGNAGE DISPLAY

ÌNFRASRTUCTURE ONLY

(CEILING MOUNTED)

(WALL MOUNTED)

AUDIOVISUAL SYMBOL LEGEND

TAG

S1

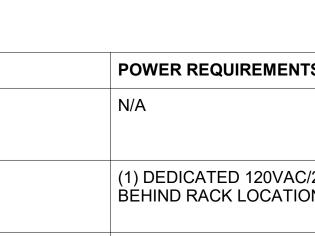
WR

XX" DSD-C

XX" DSD-W

SYMBOL

_____

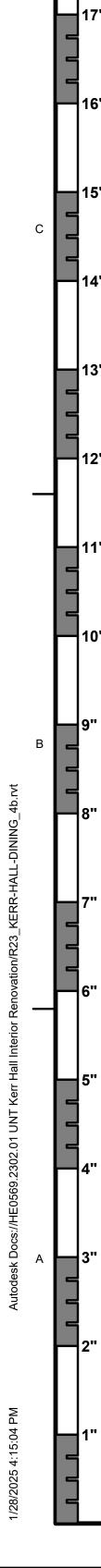


## AUDIOVISUAL DRAWINGS INDEX

6

TA000B	AUDIOVISUAL - INDEX
TA101B	AUDIOVISUAL - FLOOR PLAN (KITCHEN & DINING)
TA151B	AUDIOVISUAL - REFLECTED CEILING PLAN (KITCHEN & DINING)
TA500B	AUDIOVISUAL - SCHEMATICS
TA700B	AUDIOVISUAL - ELEVATIONS

5



POWER REQUIREMENTS	DATA REQUIREMENTS	CONDUIT REQUIREMENTS	N
N/A	N/A	N/A	DA
(1) DEDICATED 120VAC/20A QUAD OUTLET INSTALLED BEHIND RACK LOCATION.	REFER TO TELECOM PLANS.	2-GANG BOX INSTALLED BEHIND RACK LOCATION WITH (2) 1-1/4" CONDUIT STUB UP TO ACCESSIBLE CEILING.	N/
120VAC/20A DUPLEX OUTLET INSTALLED AT CEILING ABOVE FUTURE DISPLAY LOCATION.	REFER TO TELECOM PLANS.	N/A	DE CC
120VAC/20A DUPLEX OUTLET INSTALLED AT WALL BEHIND FUTURE DISPLAY LOCATION.	REFER TO TELECOM PLANS.	N/A	DE CC

#### AUDIOVISUAL RESPONSIBILITY MATRIX

ITEM	GC	AV CONTRACTOR	OWNER
NETWORK CABLING TO IDF/MFD/BDF	Х	-	-
CONDUITS	Х	-	-
ELECTRICAL & JUNCTION BOXES	Х	-	-
POWER > 24VDC	Х	-	-
FLOOR BOXES, FLOOR POKES, & POKE THROUGHS	Х	-	-
ACCESS PANELS	Х	-	-
CABLING (AUDIOVISUAL SYSTEMS)	-	Х	-
BACKGROUND MUSIC MEDIA PLAYERS	-	-	OFCI
BACKGROUND MUSIC LICENSING, CONTENT, & SCHEDULING	-	-	OFOI
AUDIOVISUAL CONTROL SYSTEM INTERFACE	-	X	-
DIGITAL SIGNAL PROCESSORS	-	X	-
AUDIOVISUAL LOUDSPEAKERS & AMPLIFIERS	-	X	-
AUDIOVISUAL SYSTEM RACKS	-	Х	-

4

#### **GENERAL NOTES**

- INFORMATION" (RFI) TO THE GC.
- QUESTION.
- INSTALLATION OF THIS PROJECT.
- AND DRAWINGS.
- BEFORE, DURING AND AFTER CONSTRUCTION.
- AND/OR CEILINGS.

- REQUIRED FOR A COMPLETE SYSTEM.

3

#### NOTES

DASHED LINE(S) AND TEXT ON PLAN REPRESENTS RECOMMENDED SPEAKER CABLING WIRING AND ZONE ASSIGNMENT(S).

### N/A

DEVICES SHOWN ON PLAN TO INDICATE FUTURE DISPLAY LOCAITONS FOR POWER, DATA, AND PLYWOOD BACKING COORDINATION ONLY. REFER TO 2/TA700B FOR INSTALLATION ELEVATION DETAIL.

DEVICES SHOWN ON PLAN TO INDICATE FUTURE DISPLAY LOCAITONS FOR POWER, DATA, AND PLYWOOD BACKING COORDINATION ONLY. REFER TO 3/TA700B FOR INSTALLATION ELEVATION DETAIL.

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 CONTRADICTING INFORMATION NEEDING CLARIFICATION SHALL BE SUBMITTED VIA A "REQUEST FOR

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 27 SPECIFICATIONS, "T" 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

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

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

CONTRACTOR SHALL TAKE NECESSARY MEANS TO PROTECT AUDIOVISUAL SYSTEM COMPONENTS FROM MECHANICAL DAMAGE

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

CONTRACTOR IS REQUIRED TO REFERENCE DIVISION 27 SPECIFICATIONS FOR ITEMIZED PRICING REQUIREMENTS.

10. AUDIOVISUAL CABLING SHALL BE ROUTED TO THE ASSOCIATED AUDIOVISUAL OUTLET IN CONDUIT, CABLE TRAY AND/OR J-HOOKS.

11. FPDS SHALL INCLUDE DISPLAY MOUNTS, ASSOCIATED HARDWARE, CONDUIT WITH BACK BOXES AND CABLING AS NOTED OR

12. CONTRACTOR TO PROVIDE, APPROPRIATELY SIZED, MECHANICAL SLEEVES (STI EZ-PATH OR HILTI SPEED SLEEVE), THAT MATCH THE RATING OF THE WALL, FOR ANY WALL PENETRATIONS REQUIRED FOR CABLE ROUTING. CONTRACTOR SHALL COORDINATE WITH GC FOR ANY FRAMING OR OTHER IN-WALL PREPARATIONS.

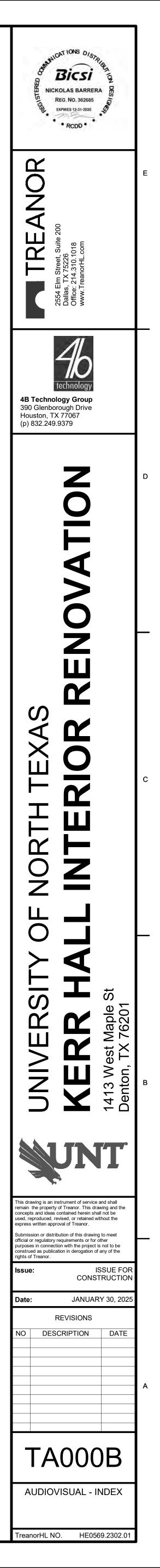
### **COORDINATION NOTES**

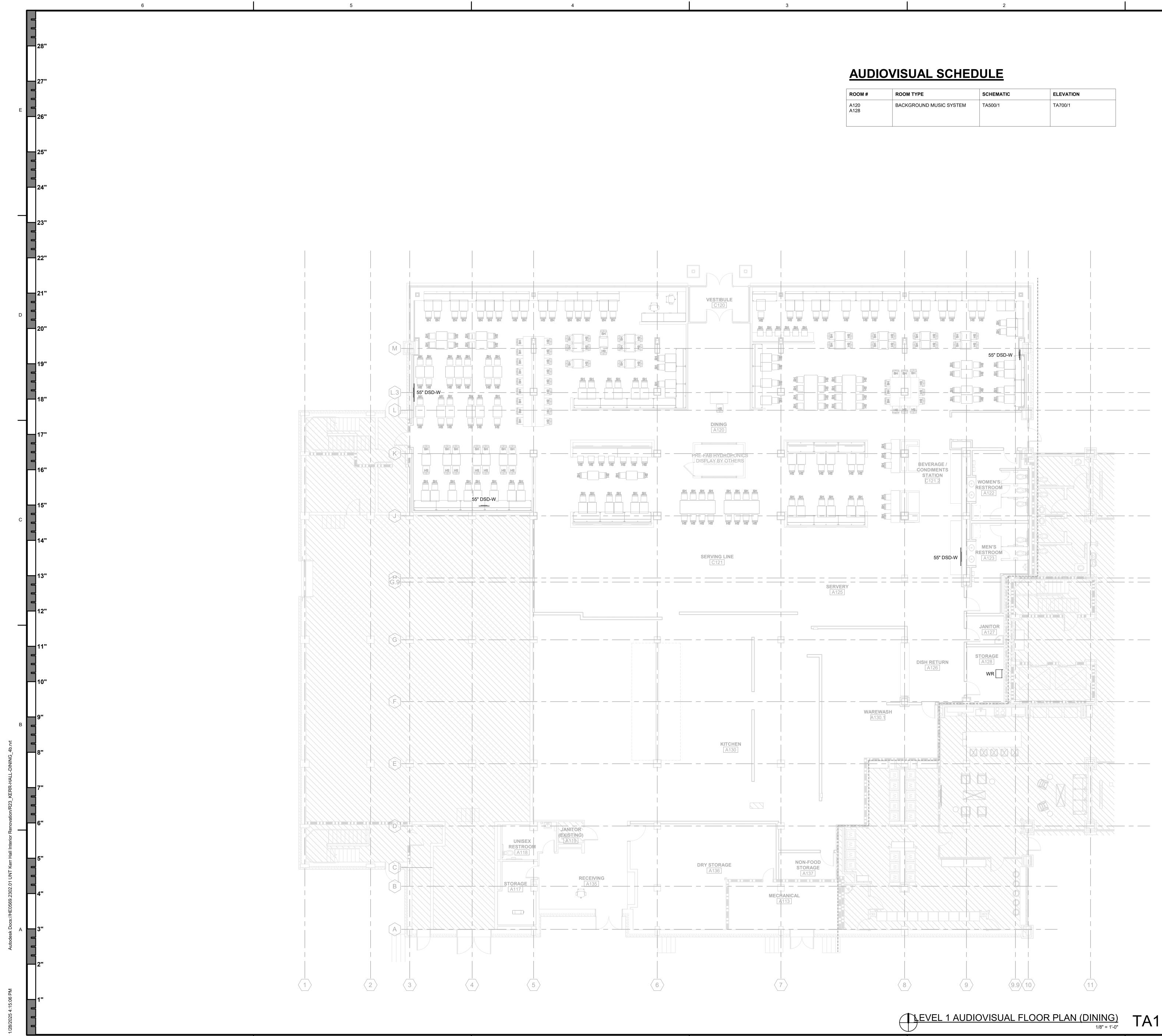
- AUDIOVISUAL DRAWINGS CONTAIN INFORMATION RELATED TO MULTIPLE TRADES (FRAMING, ELECTRICAL, ETC.) AND REQUIRES COORDINATION WITH THE GENERAL CONTRACTOR.
- CONTRACTOR SHALL COORDINATE ALL AV PLATE FINISHES 2. WITH THE ARCHITECT.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE FINAL LOCATIONS OF 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.
- CONTRACT TO COORDINATE WITH THE OWNER ON ALL FINAL LOCATIONS FOR AUDIO-VIDEO CONTROL PLATES AND INTERCONNECT PLATES.
- WALLS WITH DISPLAYS MOUNTED ON OPPOSING SIDES OF THE WALL MUST BE FRAMED OUT FOR BACK BOXES TO FIT BACK-TO-BACK.
- THIS SHEET INCLUDES A RESPONSIBILITY MATRIX FOR ALL AV AND AV-RELATED ITEMS. ADDITIONAL COORDINATION FOR FURNITURE INSTALLATION WILL BE REQUIRED.
- DATA AND FIBER OPTIC CABLING TO THE OWNER'S NETWORK MUST BE INSTALLED, TERMINATED, TESTED AND DOCUMENTED BY THE TELECOMMUNICATIONS CONTRACTOR.
- AUDIOVISUAL CABLES SHALL NOT BE PAINTED.
- 10. GENERAL CONTRACTOR TO PROVIDE ³/₄" PLYWOOD IN-WALL BLOCKING FOR ALL WALL-MOUNTED FLAT PANEL DISPLAYS.
- 11. ALL AUDIOVISUAL CABLING PLACED IN CABLE TRAY MUST BE PLACED BY TELECOMMUNICATIONS CONTRACTOR.

### **ELECTRICAL NOTES**

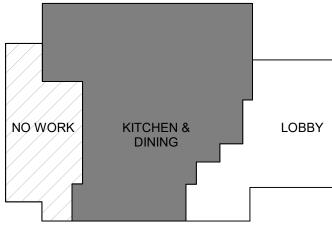
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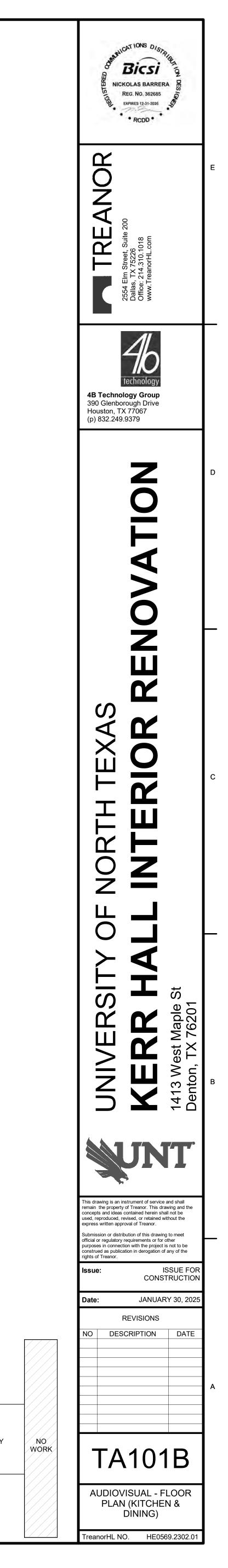
- ELECTRICAL CONTRACTOR SHALL READ, IN THEIR ENTIRETY, ALL SECTIONS OF THE AUDIOVISUAL SYSTEM DOCUMENTS AND APPLY THEM AS APPROPRIATE FOR WORK IN THIS SECTION. REFERENCE DIVISION 27 SPECIFICATIONS, "T", AND "TA" DRAWINGS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS, 2. COMPONENTS, TOOLS AND LABOR 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.
- ALL AV WALL PLATES, BACK BOXES AND PLENUM BOXES REQUIRE A CONDUIT ROUTED BACK TO THE NEAREST CORRIDOR SPACE OR ACCESSIBLE CEILING.
- ALL AV FLOOR BOXES AND POKE-THRUS SHALL HAVE CONDUIT ROUTED UP TO THE LEVEL BEING SERVED AND TO THE NEAREST ACCESSIBLE CEILING.

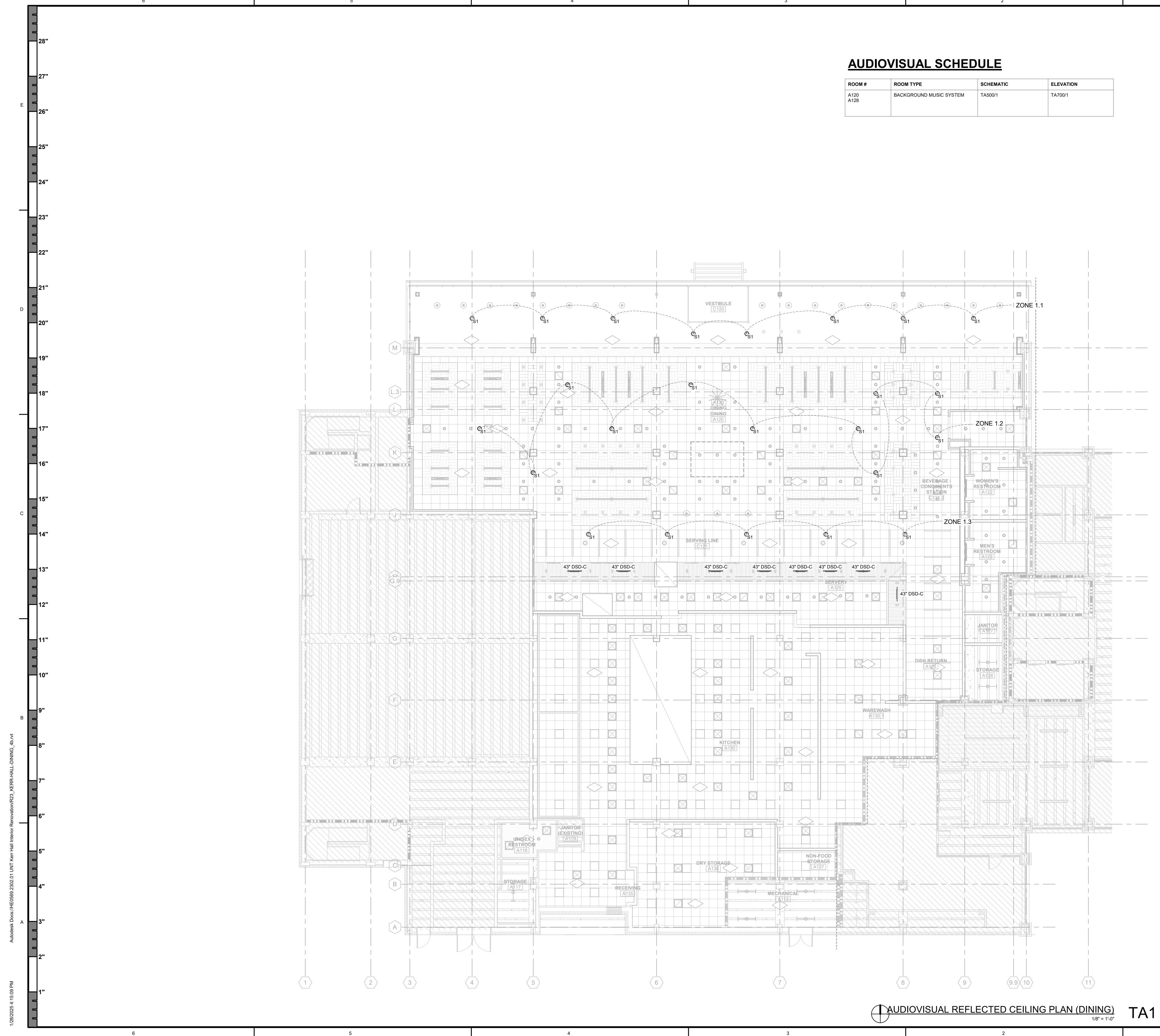




ROOM #	ROOM TYPE	SCHEMATIC	ELEVATION
A120 A128	BACKGROUND MUSIC SYSTEM	TA500/1	TA700/1

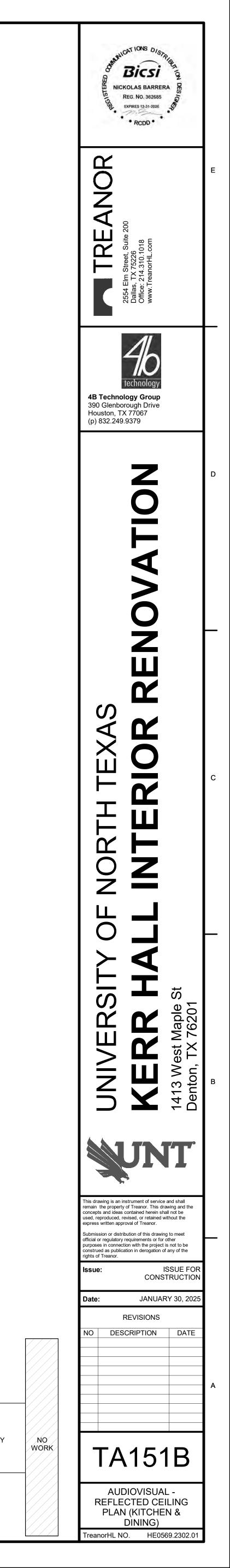


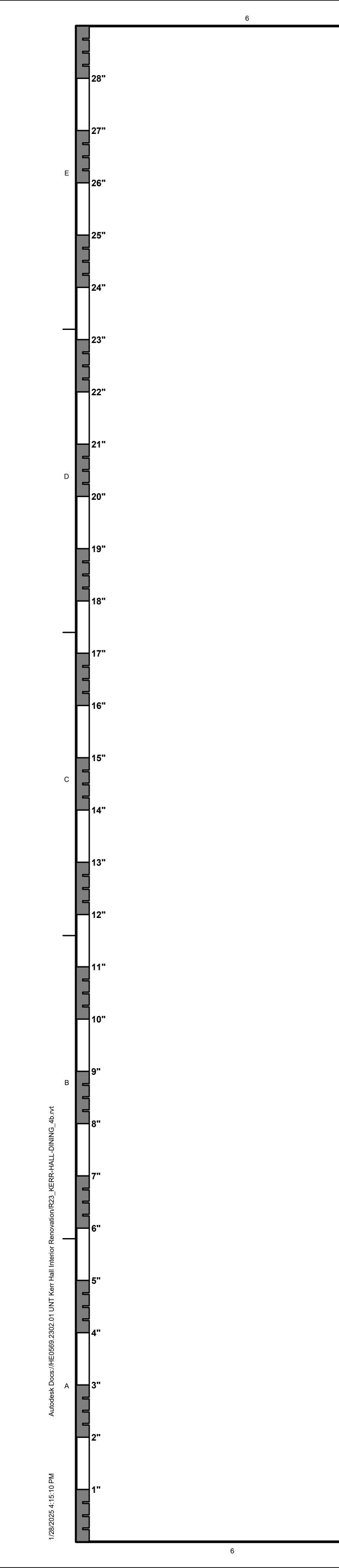


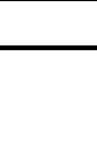


ROOM #	ROOM TYPE	SCHEMATIC	ELEVATION
A120 A128	BACKGROUND MUSIC SYSTEM	TA500/1	TA700/1









AVN / AVN)	AUDIOVISUAL NETWORK SWITCH	NETGEAR	M4250 SERIES	PROVIDE PORT COUNT AND POE ALLOCATION REQUIRED TO ACCOMMODATE AUDIOVISUAL SYSTEM FUN HEADROOM IN BOTH CATAGORIES FOR FUTURE EXPANSION.	CTIONALITY PLUS MINUMUM 20%
BP	BUTTON PAD (CONTROL INTERFACE)	BIAMP	TEC-X 1000	N/A	
DSP	DIGITAL SIGNAL PROCESSOR	BIAMP	TESIRAFORTE DAN AI	N/A	
MIC	DESKTOP MICROPHONE (PAGING OVERRIDE)	AKG	DST99 S	N/A	
MP	MEDIA PLAYER (BACKGROUND MUSIC)	TBD	TBD	OWNER FURNISHED, CONTRACTOR INSTALLED.	
S1	CEILING RECESSED SPEAKER	JBL	CONTROL 26CT	REFER TO PLANS FOR SPEAKER LOCATION, QUANTITY, AND ZONE ASSIGNMENT. WIRE ALL SPEAKERS W SPEAKER TO 70V @ 15W.	ITHIN ZONE IN PARALLEL. CONFIGUE
WR	AUDIOVISUAL WALL RACK	MIDDLE ATLANTIC	DWR-16-22PD	PROVIDE THE FOLLOWING ACCESSORIES PER DEVICE LOCAITON: (1) MIDDLE ATLANTIC FWD-DWR-RR16 I DWRSR-6-FK FANK KIT, (1) ATLAS IED WPD-RP RACKMOUNT GANG PLATE, (1) MIDDLE ATLANTIC PDX920R ATLANTIC RACK ACCESSORIES (SHELVES, LACING BARS, SCREWS, ETC.) AS NEEDED.	REAR RAIL KIT, (1) MIDDLE ATLANTIC SURGE PROTECTOR, (TBD) MIDDLE
		ER'S DESK O C120 - VESTIBULE)		WR (WALL RACK)	CEILING

MIC

`_____

4

MIC OUT

MAKE

AUDINATE

YAMAHA

MODEL

ADP-DAI-AU-1X0

AIA

MIC IN

3

XMV4280-D

SYMBOL

AIA

AMP

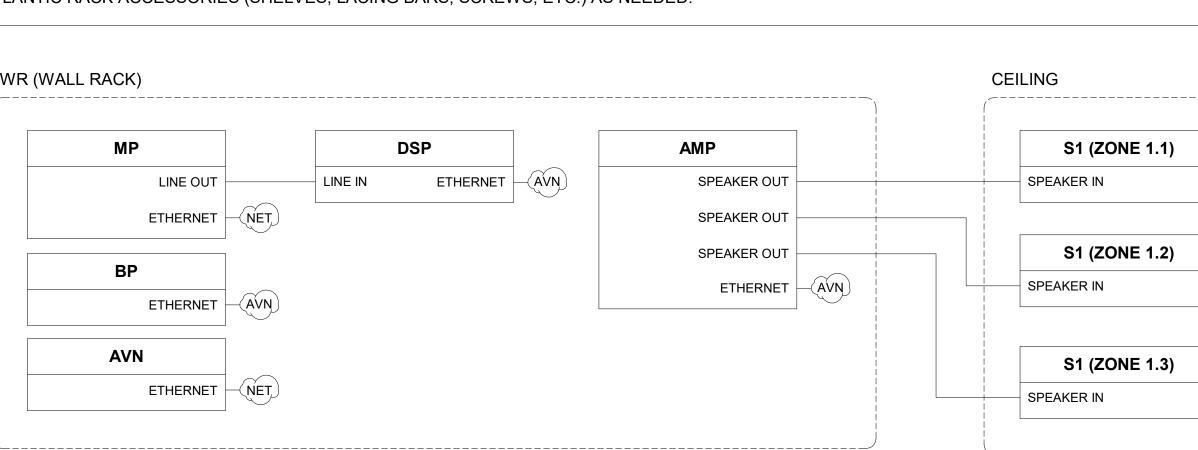
5

DESCRIPTION

AUDIO INPUT ADAPTER

AUDIO AMPLIFIER

1



2

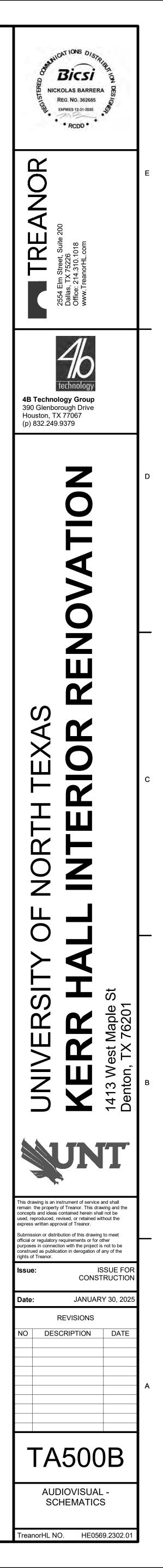
# ROVIDE THE FOLLOWING ACCESSORIES PER DEVICE LOCAITON: (1) MIDDLE ATLANTIC FWD-DWR-RR16 REAR RAIL KIT, (1) MIDDLE ATLANTIC WRSR-6-FK FANK KIT, (1) ATLAS IED WPD-RP RACKMOUNT GANG PLATE, (1) MIDDLE ATLANTIC PDX920R SURGE PROTECTOR, (TBD) MIDDLE FLANTIC RACK ACCESSORIES (SHELVES, LACING BARS, SCREWS, ETC.) AS NEEDED.

EFER TO PLANS FOR SPEAKER LOCATION, QUANTITY, AND ZONE ASSIGNMENT. WIRE ALL SPEAKERS WITHIN ZONE IN PARALLEL. CONFIGURE EACH PEAKER TO 70V @ 15W.

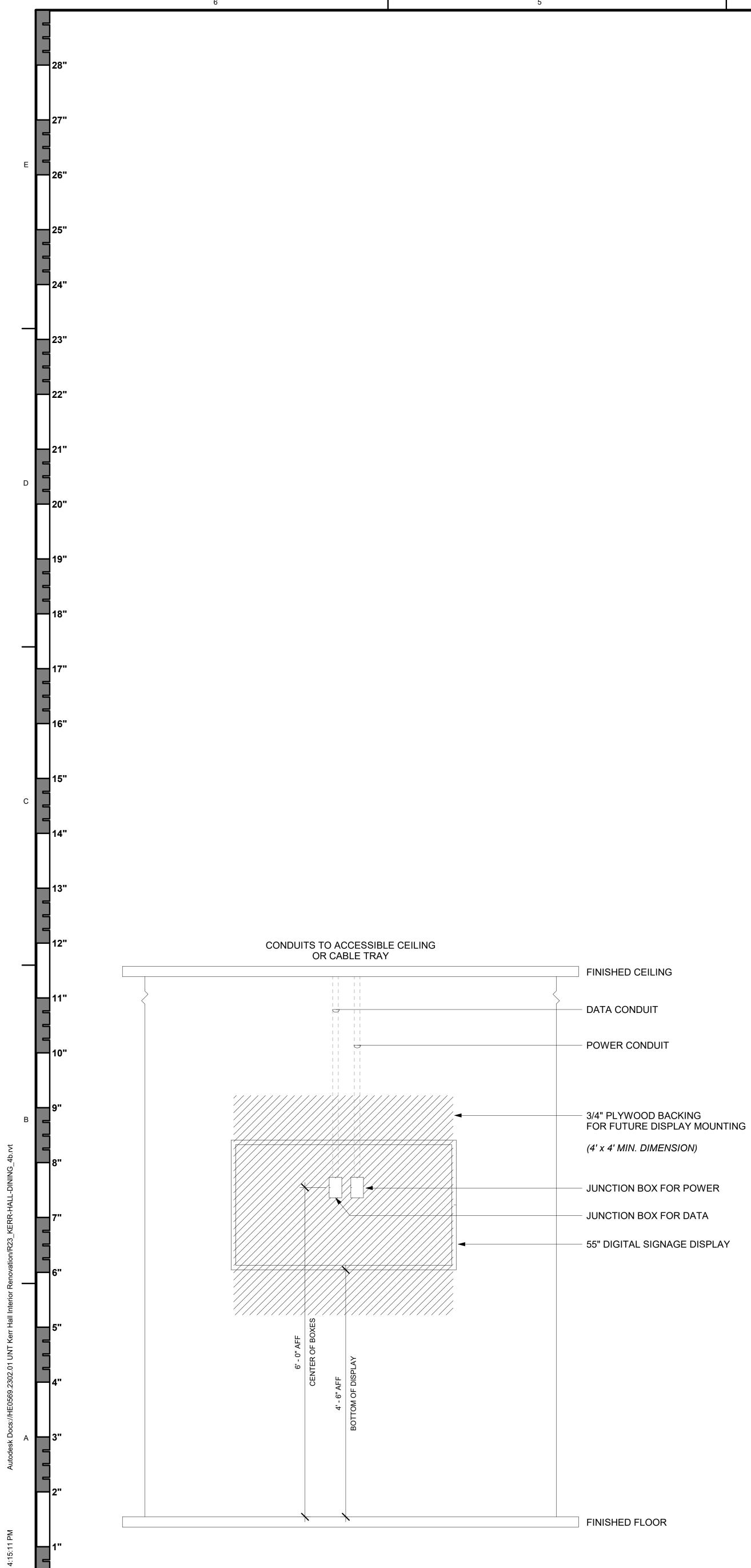
POWERED VIA POE CONNECTION TO OWNER'S NETWORK.

N/A

NOTES





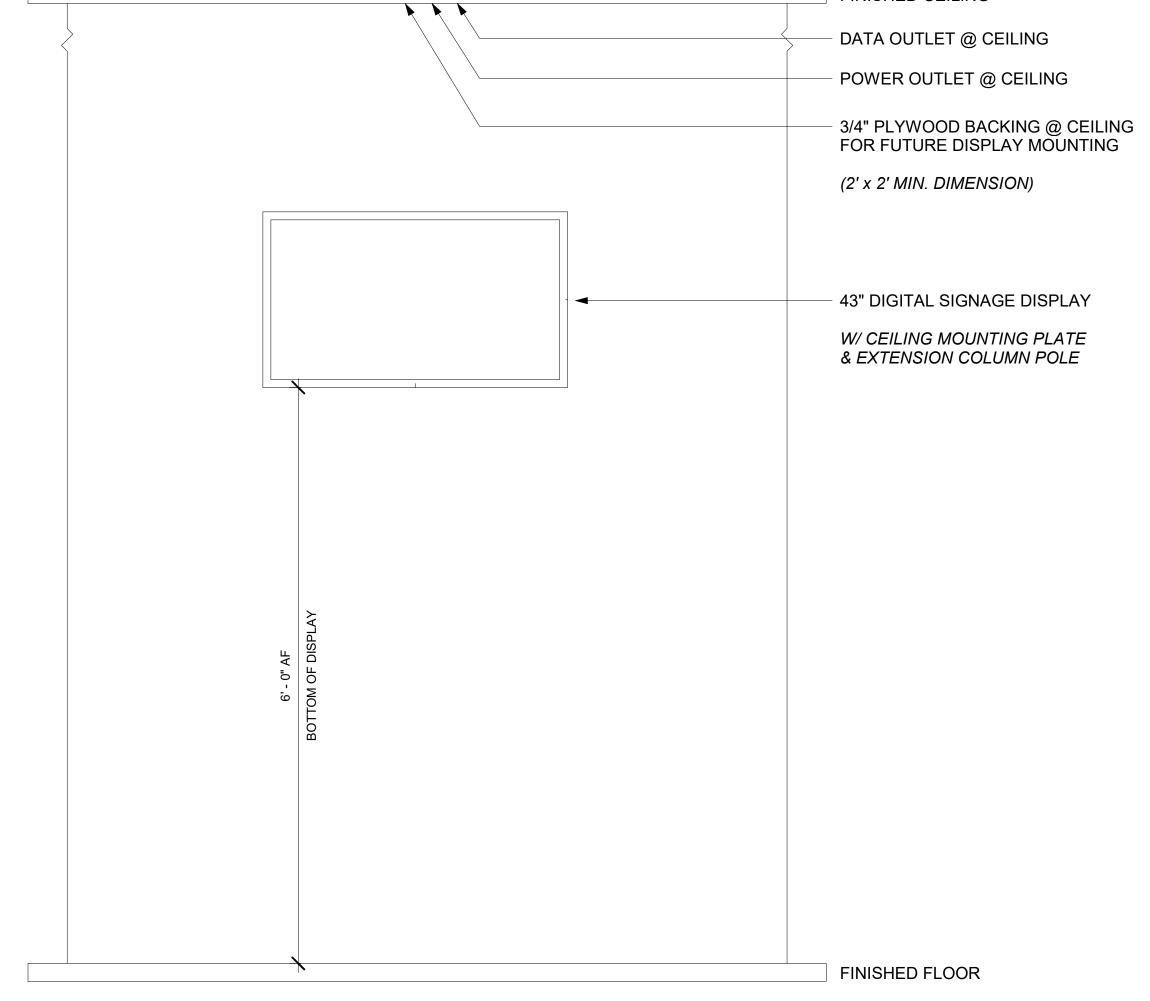


5



3

4



CONDUITS TO ACCESSIBLE CEILING OR CABLE TRAY

### FINISHED FLOOR

3

# <u>43" DSD-C</u> 1" = 1'-0"

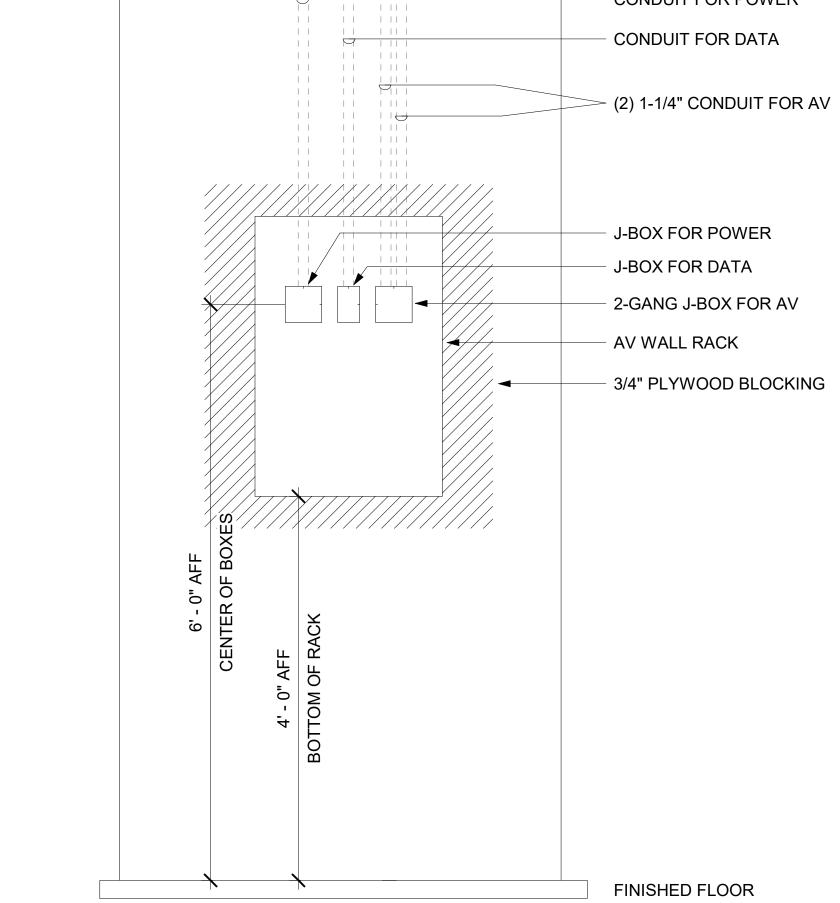
2

2

# <u>WR (WALL RACK)</u> 1" = 1'-0"

1





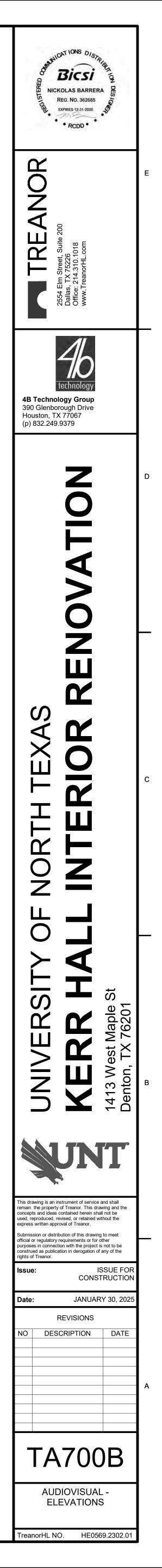
CONDUITS TO ACCESSIBLE CEILING

OR CABLE TRAY

*W/ CEILING MOUNTING PLATE & EXTENSION COLUMN POLE* 

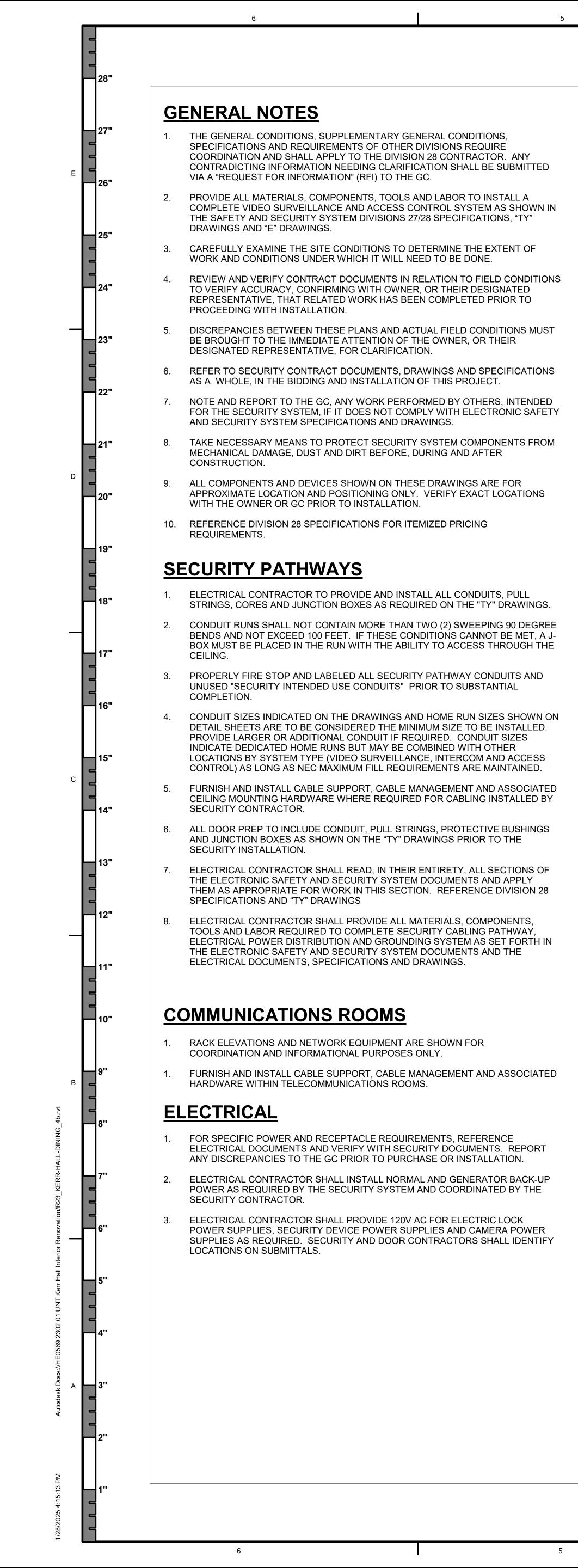
- DATA OUTLET @ CEILING

FINISHED CEILING



FINISHED CEILING

- CONDUIT FOR POWER



10.

9

## **GROUNDING AND BONDING**

- ADHERE TO ALL GROUNDING AND BONDING REQUIREMENTS SET FORTH IN THE ANSI-J-STD-607-B COMMERCIAL GROUNDING AND BONDING STANDARDS.
- PREPARE SURFACES TO PROVIDE A PROPER PATH TO GROUND. ANY SURFACE TO BE GROUNDED MUST BE FREE OF PAINT OR OTHER COATING THAT MIGHT PREVENT AN EFFECTIVE GROUND. PAINT SHOULD BE SCRAPED AWAY UNTIL METALLIC SURFACE HAS BEEN EXPOSED BEFORE THE ATTACHMENT OF GROUNDING OR BONDING CONNECTOR.

## **VIDEO SURVEILLANCE**

- PROVIDE ALL REQUIRED DEVICES, MOUNTS, HARDWARE AND PERIPHERAL COMPONENTS AS SHOWN ON "TY" DRAWINGS FOR A COMPLETE AND FUNCTIONAL SYSTEM.
- PROVIDE CAMERAS AT THE HEIGHT ABOVE GRADE OR ABOVE FINISHED FLOOR (AFF) AS INDICATED ON THE "TY" PLANS.
- COORDINATE LOCATION OF CAMERAS WITH ALL CEILING MOUNTED ARCHITECTURAL AND MEP EQUIPMENT.
- LOCATE CAMERAS AND CONFIGURE LENS SETTINGS TO OPTIMIZE CAMERA VIEWS.
- VERIFY THERE ARE NO PHYSICAL OBSTRUCTIONS TO THE INTENDED CAMERA VIEWS PRIOR TO INSTALLATION. SHOULD ANY OBSTRUCTIONS BE PRESENT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER AND ADJUST THE CAMERA POSITIONS AS NEEDED.
- COORDINATE WITH THE COMMUNICATIONS CONTRACTOR WHO IS RESPONSIBLE FOR THE INSTALLATION OF ALL CABLING FOR IP CAMERAS.
- PROVIDE SECURITY CAMERA POWER INJECTOR AS REQUIRED FOR PAN/TILT/ZOOM (PTZ) CAMERAS TO CONTROL PTZ FUNCTIONS.
- CONTRACTOR IS RESPONSIBLE FOR CAMERA LICENSES, SOFTWARE REVISIONS, NETWORK VIDEO RECORDERS (NVR) AND CAMERA FIELD OF VIEWS AS WELL AS COORDINATION AND TRAINING WITH THE OWNER TO LEARN THE VIEWING AND **RECORDING SYSTEM.**
- PROVIDE NETWORK STORAGE CALCULATIONS AS PART OF THE SUBMITTAL PACKAGES.
- CONFIGURE MOTION DETECTION WINDOWS WITH THE INVOLVEMENT OF THE OWNER IN ORDER TO MINIMIZE FALSE MOTION EVENTS.

## **ACCESS CONTROL**

- DOOR CONTRACTOR SHALL PROVIDE ALL ELECTRIC LOCKS AS SHOWN ON "TY" DRAWINGS AND COMPLY WITH BUILDING HARDWARE SCHEDULE.
- DOOR CONTRACTOR PROVIDE EXTERIOR KEY-BYPASS OPTION ON ALL ELECTRIC LOCK DOORS TO ALLOW MANUAL ENTRY. LOCKS TO BE THE SAME MANUFACTURER AS REQUIRED BY BUILDING HARDWARE SCHEDULE.
- DOOR CONTRACTOR SHALL PROVIDE ALL ELECTRICAL TRANSFER HINGES AS SHOWN ON "TY" DRAWINGS AND COMPLY WITH BUILDING HARDWARE SCHEDULE.
- FIRE ALARM CONTRACTOR SHALL PROVIDE FIRE ALARM SIGNAL INTERFACES AS REQUIRED AND COORDINATED BY THE SECURITY CONTRACTOR FOR RELEASE OF SECURITY CONTROLLED DOORS PER CURRENT LIFE SAFETY CODES.
- HOME-RUN ALL SECURITY COMPOSITE CABLING TO DESIGNATED SECURITY PANEL PER FLOOR AND LEAVE 24-INCH SERVICE LOOP ABOVE DOOR AND ABOVE THE DESIGNATED SECURITY PANEL.
- ALL DOORS ARE SET TO FAIL SECURE WITH PUSH BAR OR HANDLE ACTIVATED "REQUEST TO EXIT" EGRESS AND KEY LOCK INGRESS.
- SIZE DOOR CONTROLLERS, ENCLOSURES, BOARDS AND POWER SUPPLIES TO ALLOW FOR A MINIMUM OF 20 PERCENT FUTURE GROWTH.
- PROVIDE THE FOLLOWING:
  - CARD READERS SUPERVISED RESISTORS
  - DOOR POSITION SWITCH
  - BOARD ENCLOSURE CONTROLLER
  - **EXPANSION BOARDS** POWER SUPPLIES
  - **INTERCOM MASTER STATION AND REMOTE STATION**
  - LOW VOLTAGE CABLE PROJECT MANAGEMENT AND CUSTOMER TRAINING.

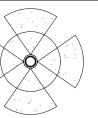
COORDINATE WITH OWNER TO ENSURE SUCCESSFUL TIE INTO OWNERS ACCESS CONTROL SYSTEM.

## SECURITY DRAWINGS INDEX

TY000B SECURITY - INDEX (KITCHEN & DINING) TY151B SECURITY - REFLECTED CEILING PLAN (KITCHEN & DINING) TY500B SECURITY - DETAILS (KITCHEN & DINING)

## **SECURITY SYMBOL LEGEND**

FIXED MEGAPIXEL DOME CAMERA



## ABBREVIATIONS

ACS	ACCESS CONTROL SYSTEM
AFF	ABOVE FINISHED FLOOR
APS	ACCESS CONTROL POWER SUPPLY
AWG	AMERICAN WIRE GAUGE
CCTV	CLOSED CIRCUIT TELEVISION
CFCI	CONTRACTOR FURNISHED CONTRA
CFCI	CHANNEL
-	•••••
CON	
CPS	CAMERA POWER SUPPLY
CPU	CENTRAL PROCESSING UNIT
CRT	CATHODE RAY TUBE
DB	DECIBEL
DGP	DATA GATHERING PANEL
DVR	DIGITAL VIDEO RECORDER
EL	ELECTRONIC LOCKSET
ESS	ELECTRONIC SAFETY & SECURITY
FC	FOOT CANDLE
FOV	FIELD OF VIEW
FPS	FRAMES PER SECONDS
FSD	FLAT SCREEN DISPLAY
GC	GENERAL CONTRACTOR
IDF	INTERMEDIATE DISTRIBUTION FRAM
IP	INTERNET PROTOCOL
IR	INFRARED
JPEG	JOINT PHOTOGRAPHIC EXPERTS G
LPS	LOCK POWER SUPPLY
MDF	MAIN DISTRIBUTION FRAME
MPEG	MOTION PICTURE EXPERTS GROUP
NTSC	NATIONAL TELEVISION STANDARDS
NVR	NETWORK VIDEO RECORDER
PIR	PASSIVE INFRARED
POE	POWER OVER ETHERNET
PP	PATCH PANEL
PPF	PIXELS PER FOOT
PTZ	PAN-TILT-ZOOM
REX	REQUEST TO EXIT
SMS	
	SOFTWARE MANAGEMENT SYSTEM
TP	TERMINATION POINT
TR	
TS	TRADE SIZE
TY	SECURITY DISCIPLINE DESIGNATOR
UM	MICRON
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
VMS	VIDEO MANAGEMENT SOFTWARE
WDR	WIDE DYNAMIC RANGE

360 DEGREE PANORAMIC DOME CAMERA (VIDEO SURVEILLANCE)

### SECURITY RESPONSIBILITY MATRIX

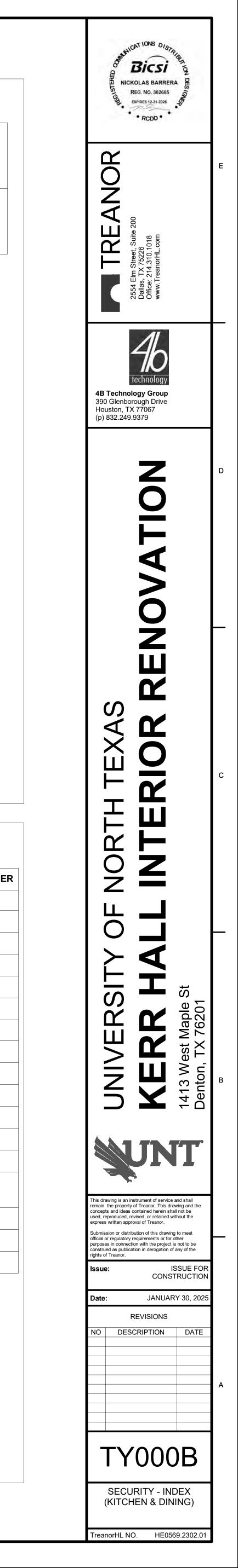
SECURITY RESPONSIBILITY MATRIX	GC	SEC	DOOR	OWNE
NETWORK CABLING TO IDF CONDUITS	X			
CONDUITS	X			
J-BOXES	X			
POWER	X			
ACCESS PANELS	X			
SECURITY CABLING (NON IP)		Х		
SECURITY PANELS		Х		
CAMERAS		X		
CARD READERS		Х		
DOOR CONTACTS		Х		
DOOR LOCKS AND HARDWARE			Х	
REX (INTEGRATED)			Х	
REX (PIR)		Х		
LOW VOLTAGE POWER DISTRIBUTION PANELS AND CABLING		х		
NETWORK VIDEO RECORDERS		Х		
SECURITY SYSTEM LICENSES		Х		
COMPUTERS				X

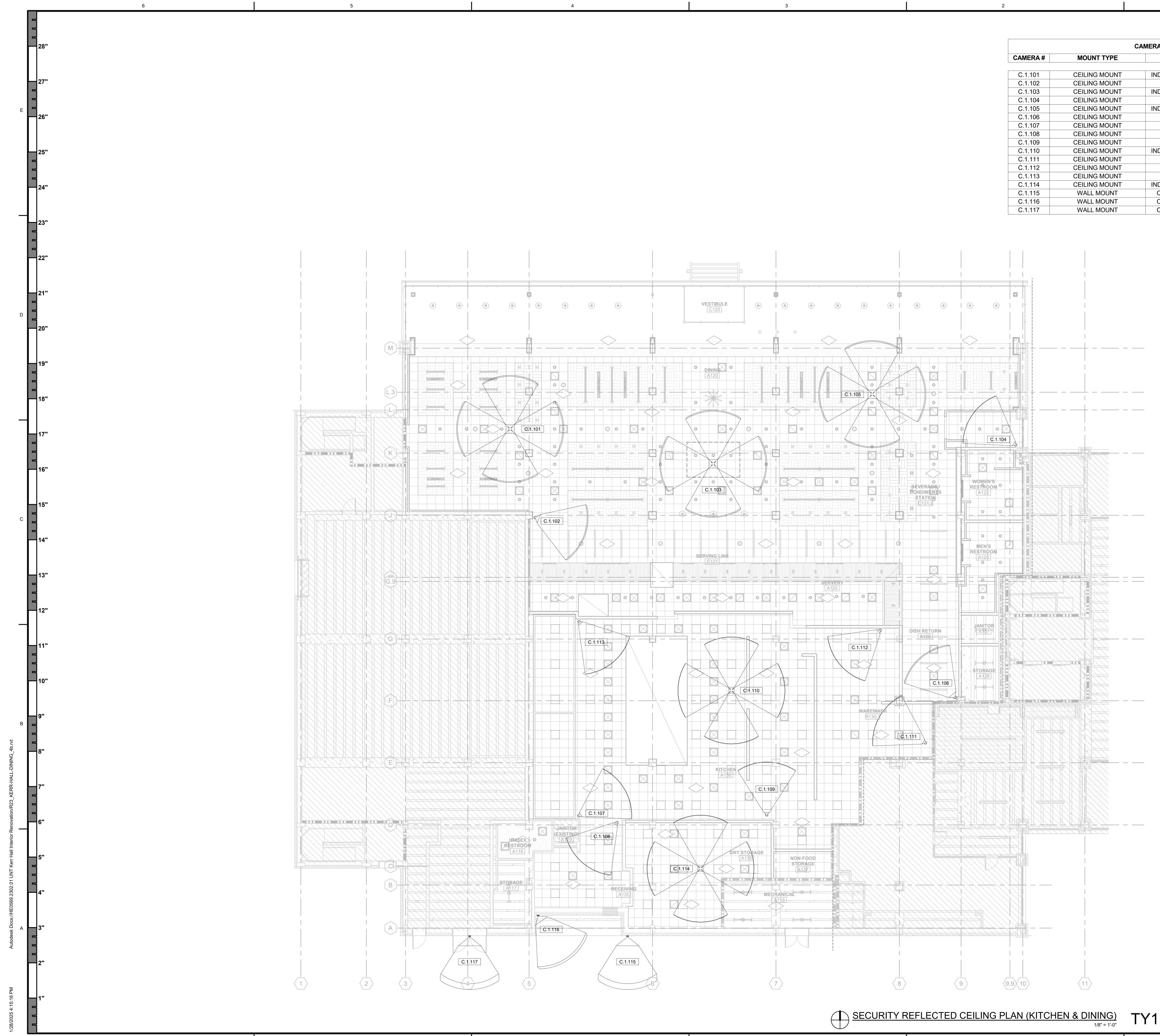
ACTOR INSTALLED

MF

GROUP

S COMMITTEE





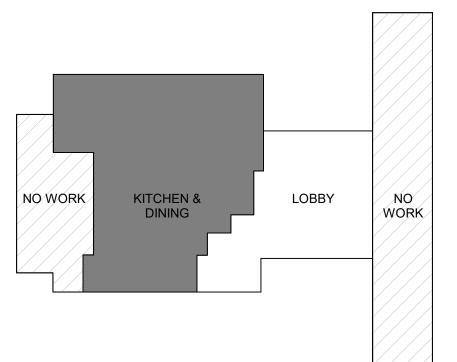
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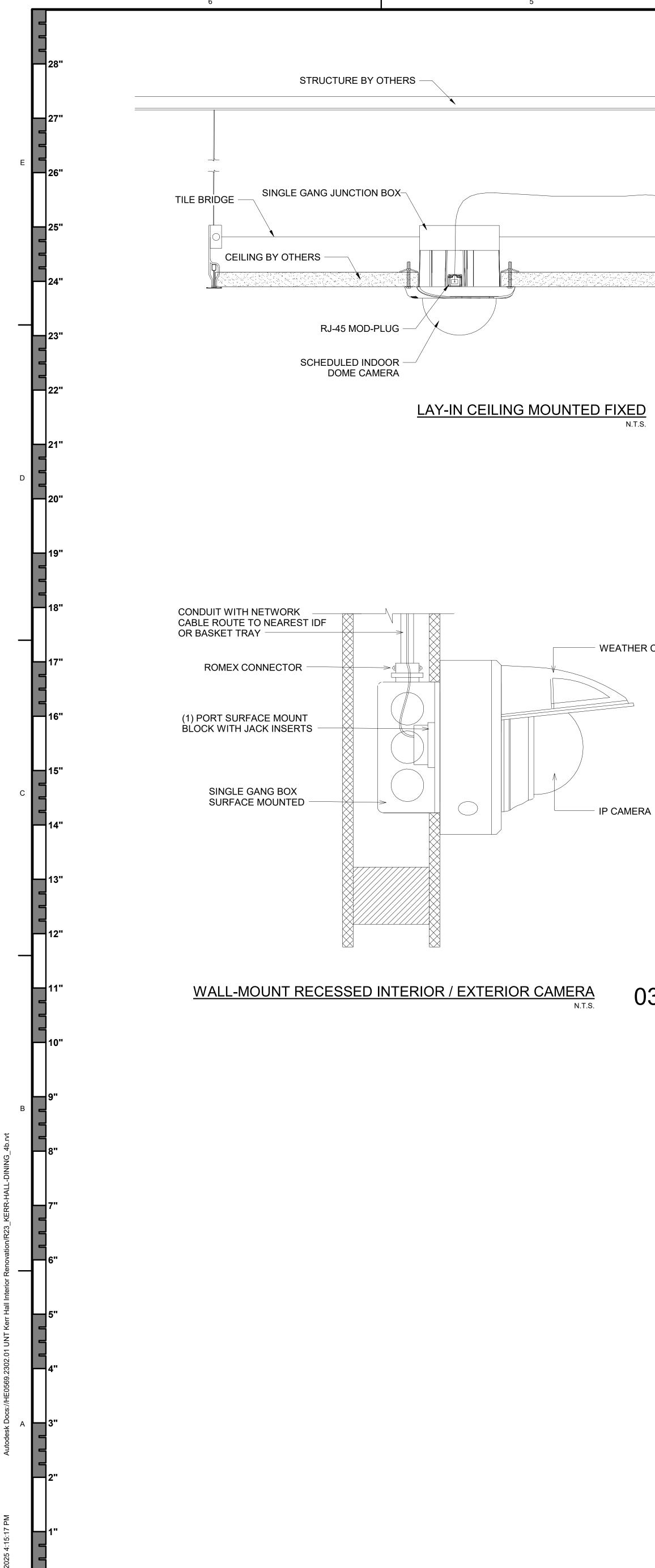
MERA SCHED	CA	
CAMI	MOUNT TYPE	CAMERA #
INDOOR ML	CEILING MOUNT	C.1.101

CAMERA SCHEDULE							
AMERA # MOUNT TYPE CAMERA TYPE		HEIGHT	DETAILS				
0.4.404				4 / T) (500D			
C.1.101	CEILING MOUNT	INDOOR MULTISENSOR 360	10' - 0"	4 / TY500B			
C.1.102	CEILING MOUNT	INDOOR FIXED DOME	10' - 0"	1 / TY500B			
C.1.103	CEILING MOUNT	INDOOR MULTISENSOR 360	10' - 0"	4 / TY500B			
C.1.104	CEILING MOUNT	INDOOR FIXED DOME	9' - 0"	1 / TY500B			
C.1.105	CEILING MOUNT	INDOOR MULTISENSOR 360	10' - 0"	4 / TY500B			
C.1.106	CEILING MOUNT	INDOOR FIXED DOME	10' - 0"	1 / TY500B			
C.1.107	CEILING MOUNT	INDOOR FIXED DOME	9' - 0"	1 / TY500B			
C.1.108	CEILING MOUNT	INDOOR FIXED DOME	9' - 0"	1 / TY500B			
C.1.109	CEILING MOUNT	INDOOR FIXED DOME	9' - 0"	1 / TY500B			
C.1.110	CEILING MOUNT	INDOOR MULTISENSOR 360	9' - 0"	4 / TY500B			
C.1.111	CEILING MOUNT	INDOOR FIXED DOME	9' - 0"	1 / TY500B			
C.1.112	CEILING MOUNT	INDOOR FIXED DOME	9' - 0"	1 / TY500B			
C.1.113	CEILING MOUNT	INDOOR FIXED DOME	9' - 0"	1 / TY500B			
C.1.114	CEILING MOUNT	INDOOR MULTISENSOR 360	9' - 0"	4 / TY500B			
C.1.115	WALL MOUNT	OUTDOOR FIXED DOME	13' - 0"	3 / TY500B			
C.1.116	WALL MOUNT	OUTDOOR FIXED DOME	11' - 0"	3 / TY500B			
C.1.117	WALL MOUNT	OUTDOOR FIXED DOME	13' - 0"	3 / TY500B			



1

Bicsi NICKOLAS BARRERA REG. NO. 362685 EXPIRES 12-31-2026 • RCDD • TREANOR 1 **4B Technology Group** 390 Glenborough Drive Houston, TX 77067 (p) 832.249.9379  $\mathbf{\gamma}$ С) Ш ┣— ⊢ R C Ζ C S Ŷ  $\leq$ က  $\overline{}$ 4 Q. This drawing is an instrument of service and shall remain the property of Treanor. This drawing and the concepts and ideas contained herein shall not be used, reproduced, revised, or retained without the express written approval of Treanor. nission or distribution of this drawing to meet official or regulatory requirements or for other purposes in connection with the project is not to be construed as publication in derogation of any of the rights of Treanor. ISSUE FOR CONSTRUCTION JANUARY 30, 2025 REVISIONS NO DESCRIPTION DATE TY151B SECURITY - REFLECTED CEILING PLAN (KITCHEN & DINING) TreanorHL NO. HE0569.2302.01



03

5

4

IP CAMERA

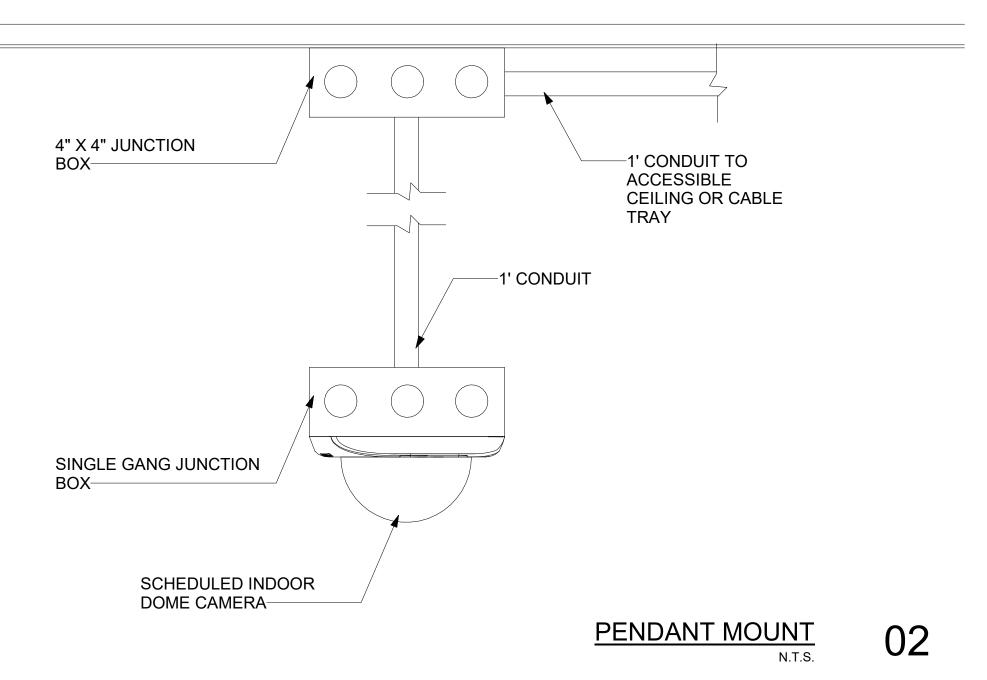
- WEATHER CAP

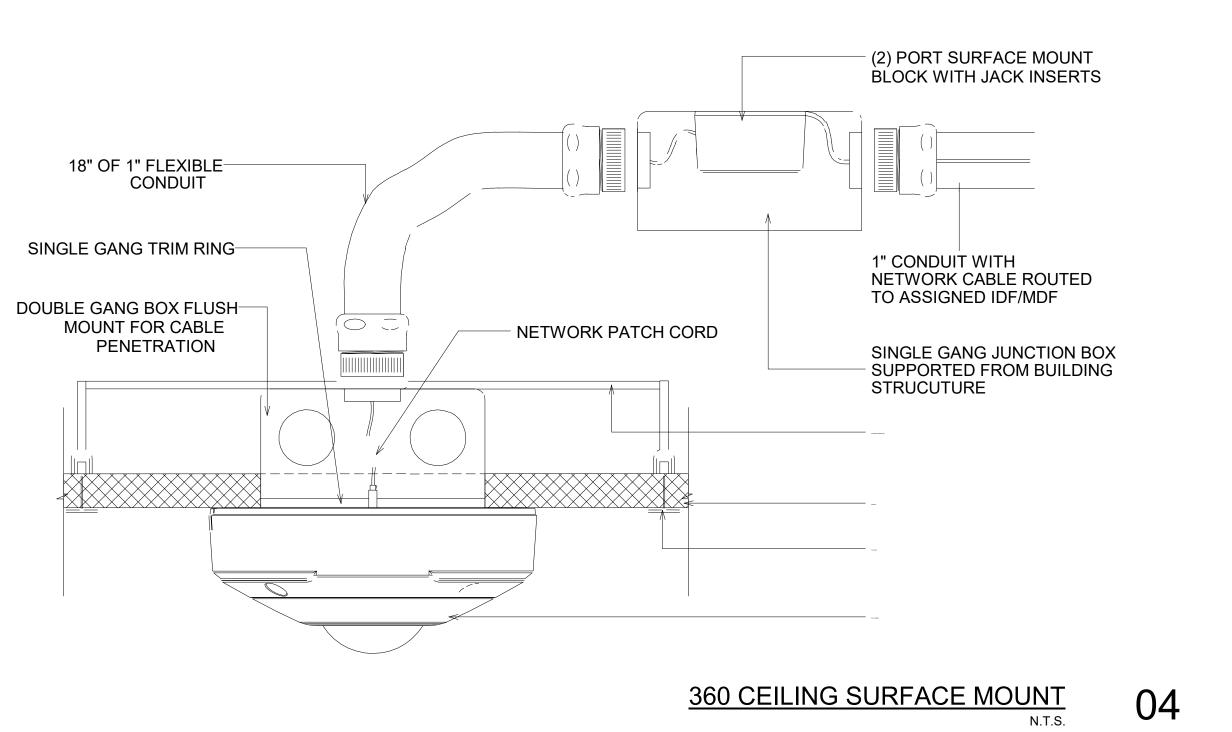
01

- CAT-6A PLENUM CABLE (TO PATCH ` PANEL)

STRUCTURE BY OTHERS

3





2

