UNIVERSITY OF NORTH TEXAS

KERR HALL DINING RENOVATION

MEAN GREENS VEGAN DINING HALL



TREANOR

ISSUE FOR CONSTRUCTION
JANUARY 30, 2025



UNIVERSITY OF NORTH TEXAS

KERR HALL DINING RENOVATION

ISSUE FOR CONSTRUCTION

JANUARY 30, 2025

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W. HIGHLAND STREET G. BRINT RYAN COLLEGE OF PROJECT - LOCATION MAPLE STREET





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TYPES, & DETAILS

FURNITURE PLAN

FINISH PLAN

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ROOF LEVEL MECHANICAL PLAN

ROOF LEVEL MECHANICAL PLAN

CONTROLS DETAILS - CHW AHU SINGLE-ZONE CONTROLS DETAILS - CHW AHU MULTI-ZONE CONTROLS DETAILS - VAV & CO AND GAS

LEVEL 1 MECHANICAL PIPING PLAN - DINING MECHANICAL DETAILS - DUCT iM502 MECHANICAL DETAILS - PIPE MECHANICAL DETAILS - GREASE EXHAUST iM503 iM601 MECHANICAL SCHEDULES CONTROLS DETAILS - FANS CONTROLS DETAILS - MAU & FCU

LEVEL 1 DEMO PLUMBING PLAN - DINING

ELECTRICAL NOTES & SYMBOLS ELECTRICAL NOTES & SYMBOLS LEVEL 1 ELECTRICAL PLAN - DINING LEVEL 1 LIGHTING PLAN - DINING ELECTRICAL ENLARGED PLAN - RESTROOMS (KITCHEN) ELECTRICAL ENLARGED PLAN - KITCHEN iE501 ELECTRICAL ONE-LINE DIAGRAM ELECTRICAL ONE-LINE DIAGRAM iE501 iE601 ELECTRICAL DETAILS - GENERAL iE602 ELECTRICAL DETAILS - GENERAL iE603 ELECTRICAL DETAILS - GROUNDING ELECTRICAL SCHEDULES iE702 ELECTRICAL SCHEDULES - KITCHEN

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iE702

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AUDIOVISUAL - ELEVATIONS

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



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PROJECT TEAM, & SHEET

SITE VICINITY MAP,

Treanor NO. HE0569.2302.01

		6		5		4
	AB	BREVIATIONS				
28"	AA	AUTOMATICALLY ACTUATED	FLUOR	FLUORESCENT	PLWD	PLYWOOD
	ABS ABV	ABSOLUTE ABOVE	FND FOC	FOUNDATION FACE OF CONCRETE	PNL PR	PANEL PAIR
	AC	ABOVE COUNTER	FOF	FACE OF FINISH	PSF	POUNDS PER SQUARE FOOT
7"	ACMU ACOUS	ARCHITECTURAL CEMENTITIOUS MASONRY UNIT ACOUSTICAL	FOM FOS	FACE OF MASONRY FACE OF STUCCO	PSI PT	POUNDS PER SQUARE INCH PAINT, PAINTED
	ACT AD	ACOUSTICAL CEILING TILE AREA DRAIN	FP FR	FIREPROOF(ING) FIRE RATED	PTR PVC	PAPER TOWEL RECEPTOR POLYVINYL CHLORIDE
	ADA ADJ	AMERICANS WITH DISABILITIES ACT ADJUSTABLE	FRP FS	FIBERGLASS REINFORCED PLASTIC FLOOR SINK	PVMT QT	PAVEMENT QUARRY TILE
	AFF	ABOVE FINISHED FLOOR	FT	FEET	QTY	QUANTITY
6"	AG AHU	ACRYLIC GLAZING AIR HANDLING UNIT	FTG FUR	FOOTING FURRING	R RA	RADIUS OR RISER RETURN AIR
	ALT ALUM	ALTERNATE ALUMINUM	FUT GA	FUTURE GAUGE	RAD RB	RADIUS RUBBER BASE
	ANCH	ANCHOR	GALV	GALVANIZED	RBT	RABBET
5"	APX	ACCESS PANEL APPROXIMATE	GB GC	GRAB BAR GENERAL CONTRACTOR	RCP RD	REFLECTED CEILING PLAN ROOF DRAIN
	ARCH AUTO	ARCHITECT(URAL) AUTOMATIC	GD GF	GRADE/GRADING GROUND FACE	RE RECEP	REFERENCE RECEPTACLE
	BD	BOARD	GFRC	GLASS FIBER REINFORCED CONCRETE	REF	REFERENCE
	BLDG BLK	BUILDING BLOCK	GR GYP	GRADE, GRADING GYPSUM	REFR REG	REFRIGERATOR REGISTER
	BM	BENCH MARK	GYP BD	GYPSUM BOARD	REINF	REINFORCED(ING)
	BOD BOD	BOTTOM OF BASIS OF DESIGN	H HB	HIGH/HEIGHT HOSE BIB	REM REQ	REMOVE REQUIRE(D)
	BOT BR	BOTTOM BRICK	HM НО	HOLLOW METAL HOLD OPEN	RES RET	RESILIENT RETURN
"	BRG	BEARING	HORZ	HORIZONTAL	REV	REVISION
	BS BSMT	BOTH SIDES BASEMENT	HR HT	HOUR HEIGHT	RFG RFL	ROOFING REFLECT(ED), (IVE), (OR)
	BUR	BUILT UP ROOFING	HVAC HW	HEATING/VENTILATING/AIR CONDITIONING HOT WATER	RFS RH	ROOM FINISH SCHEDULE RIGHT HAND
٠	CA CAB	CARD ACTUATED CABINET	HWD	HARD WOOD	RM	ROOM
	CB CCTV	CHALKBOARD CLOSED CIRCUIT TELEVISION	ID IN	INSIDE DIAMETER INCHES	RO RTU	ROUGH OPENING ROOF TOP UNIT
	CF	CORK FLOORING	INCL	INCLUDE(D), (ING)	RVRS	REVERSE
	CFCI CG	CONTRACTOR FURNISHED CONTRACTOR INSTALLED CORNER GUARD	INSUL INT	INSULATION, INSULATING INTERIOR	S SA	SOUTH SUPPLY AIR
"	CH CI	CONDUCTOR HEAD CAST IRON	INTM JB	INTERMEDIATE JUNCTION BOX	SAM	SELF-ADHERED MEMBRANE SANITARY
	CIP	CAST IN PLACE	JF	JOINT FILLER	SCHED	SCHEDULE
	CJ CL	CONTROL JOINT CENTER LINE	JST JT	JOIST JOINT	SD SECT	STORM DRAIN SECTION
•	CLG	CEILING	KB	KEYBOARD	SF	SQUARE FEET
	CLR CMU	CLEAR CONCRETE MASORY UNIT	KIT KO	KITCHEN KNOCK OUT	SHT SHTH	SHEET SHEATHING
	COL	CLEAN OUT COLUMN	KS	KNEE SPACE LONG/LENGTH	SHWR SIM	SHOWER SIMILAR
,	CONC	CONCRETE	LAM	LAMINATE	SLNT	SEALANT
"	COND	CONDITION CONSTRUCTION	LAV	LAVATORY LEFT HAND	SND	SANITARY NAPKIN DISPENSER SANITARY NAPKIN RECEPTACLE
	CONT	CONTINUOUS, CONTINUE	LIN	LINOLEUM	SPC	SPACE
	CORR CPT	CORRIDOR CARPET	LLH LLV	LONG LEG HORIZONTAL LONG LEG VERTICAL	SPCR SPEC	SPACER SPECIFICATION(S)
"	CR CS	CARD READER CUSTOM STEEL	LMS LT	LIMESTONE LIGHT	SPKR SQ	SPEAKER SQUARE
	CT	CERAMIC TILE	LTL	LINTEL	SS	SOLID SURFACE
	CTR CTSK	COUNTER COUNTERSUNK	LWC	LIGHT WEIGHT LIGHT WEIGHT CONCRETE	SSK	SERVICE SINK STAINLESS STEEL
	CW	COLD WATER	LWCMU	LIGHT WEIGHT CONCRETE MASONRY UNIT	ST	SPECIAL TREATMENT
	D DBL	DEEP/DEPTH/DRAIN DOUBLE	M MAS	METER(S) MASONRY	STA STD	STATION STANDARD
	DF DFS	DRINKING FOUNTAIN DOOR AND FRAME SCHEDULE	MAT MAX	MATERIAL(S) MAXIMUM	STL STN	STEEL STONE
	DIA	DIAMETER	MB	MARKERBOARD	STOR	STORAGE
"	DIM	DIMENSION DIVISION	MDF MECH	MEDIUM DENSITY FIBERBOARD MECHANICAL	STP STRUCT	STANDPIPE STRUCTURAL
	DN	DOWN DISPENSER	MED	MEDIUM MEMBRANE	SUSP	SUSPENDED
	DPR DR	DOOR	MEMB MFR	MANUFACTURE/MANUFACTURER	SY	SQUARE YARD SYMMETRICAL
	DS DTL	DOWNSPOUT DETAIL	MH MHO	MANHOLE MAGNETIC HOLD OPEN	SYS	SYSTEM TREAD
	DWG	DRAWING	MIN	MINIMUM	T&G	TONGUE AND GROOVE
	EA	EAST EACH	MIR MISC	MIRROR MISCELLANEOUS	TBD TD	TO BE DETERMINED TRENCH DRAIN
	EB	EXPANSION BOLT	MLD	MOLDING, MOULDING	TEL	TELEPHONE
"	ECUH EF	ELECTRIC CABINET UNIT HEATER EACH FACE	MOD	MASONRY OPENING MODULAR	THK THRU	THICK(NESS) THROUGH
	EIFS EJ	EXTERIOR INSUL. FINISH SYSTEM EXPANSION JOINT	MS MT	METAL STUDS MOUNT(ED), (ING)	TLT TO	TOILET TOP OF
	EL	ELEVATION	MTFR	METAL FURRING	TOC	TOP OF CONCRETE
.	ELEV	ELECTRIC(AL) ELEVATION/ELEVATOR	MTL MTLR	METAL METAL ROOF	TOS	TOP OF STEEL, TOP OF SLAB TOP OF WALL
	EMER	EMERGENCY	MULL	MULLION NORTH	TPD TPTN	TOILET PAPER DISPENSER
	ENC EOS	ENCLOSURE EDGE OF SLAB	N NIC	NOT IN CONTRACT	TS	TOILET PARTITION TUBE STEEL
	EP EPS	ELECTRICAL PANEL EXPANDED POLYSTYRENE	NO NOM	NUMBER NOMINAL	TYP TZ	TYPICAL TERRAZZO
	EQ	EQUAL	NR	NOISE REDUCTION	UC	UNDER CONTRACT
	EQUIP EST	EQUIPMENT ESTIMATE	NRC NTS	NOISE REDUCTION COEFFICIENT NOT TO SCALE	UNF	UNFINISHED UNLESS NOTED OTHERWISE
	ETR	EXISTING TO REMAIN	ОС	ON CENTER	UR	URINAL
.	EWC EXIST	ELECTRIC WATER COOLER EXISTING	OD OFCI	OUTSIDE DIAMETER (or) OVERFLOW DRAIN OWNER FURNISHED CONTRACTOR INSTALLED	US VB	URINAL SCREEN VAPOR BARRIER
	EXP EXT	EXPANSION EXTERIOR	OFOI OFVI	OWNER FURNISHED OWNER INSTALLED OWNER FURNISHED VENDOR INSTALLED	VCT VERT	VINYL COMPOSITE TILE VERTICAL
	FA	FRESH AIR	ОН	OVERHEAD	VEST	VESTIBULE
	FAAP FACP	FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL	OPH OPNG	OPPOSITE HAND OPENING	VFCI VFOI	VENDOR FURNISHED CONTRACTOR INSTALLED VENDOR FURNISHED OWNER INSTALLED
١	FAS	FASTENER	OPP	OPPOSITE	VFVI	VENDOR FURNISHED VENDOR INSTALLED
	FBO	FACE BRICK FURNISHED BY OTHERS	PAF PAR	POWDER ACTUATED FASTENER PARAPET	VIF W	VERIFY IN FIELD WIDE/WIDTH
	FD FDC	FLOOR DRAIN FIRE DEPARTMENT CONFICTION	PAV PB	PAVING PUSH BUTTON	W/ W/O	WITH WITHOUT
	FE	FIRE DEPARTMENT CONECTION FIRE EXTINGUISHER	PC	PORTLAND CEMENT	WC	WATER CLOSET
	FEB FEC	FIRE EXTINGUISHER BRACKET FIRE EXTINGUISHER CABINET\	PCC PED	PRECAST CONCRETE PEDESTRIAN	WD WDB	WOOD WOOD BASE
	FF	FINISH FLOOR	PERIM	PERIMETER	WDO	WINDOW
	FFCO FFE	FLUSH FLOOR CLEANOUT FINISHED FLOOR ELEVATION	PERP PFB	PERPENDICULAR PREFABRICATE(D)	WG WO	WIRE GLASS WHERE OCCURS
	FFL	FINISHED FLOOR LINE	PIC PK	POLYISOCYANURATE	WPG WS	WATERPROOFING
	FHC FHC	FLAT HEAD FIRE HOSE CABINET	PL	PARKING PLATE	WS	WRITABLE SURFACE WATERSTOP
	FHMS	FLAT HEAD MACHINE SCREW	PL	PROPERTY LINE	WSCT	WAINSCOT

PLAS PLASTER

PLBG PLUMBING

WTW WALL TO WALL

WWF WELDED WIRE FABRIC

FLOW LINE

MATERIALS SYMBOLS — DETAIL NUMBER FACE BRICK (PLAN/SECTION) ELEVATION • **ELEVATION LEVEL** DETAIL SECTION CAST STONE (ELEVATION) RIGID INSULATION — SHEET NUMBER — DETAIL NUMBER SPRAYED INSULATION CEILING TAG W/ HEIGHT & MATERIAL CL-1 CEILING TYPE, RE: FINISH CONCRETE MASONRY SCHEDULE 1'-0" HEIGHT ABOVE FINISH — SHEET NUMBER FLOOR, UNO ASPHALT SHINGLES — DETAIL NUMBER CONCRETE DOOR TAG WALL SECTION UNDISTURBED EARTH ----- UNIQUE ID SHEET NUMBER ----- ROOM NUMBER DISTURBED EARTH 1------ DETAIL NUMBER METAL STUD/STEEL BUILDING ELEVATION WINDOW TAGS INTERIOR ELEVATION 1 ◀ A101 GYPSUM BOARD ─ SHEET NUMBER DRAINAGE FILL — DETAIL NUMBER PLYWOOD PLAN DETAIL **GLAZING TAGS** BLANKET OR LOOSE FILL INSULATION SHEET NUMBER — WOOD FINISH DEMOLITION **GRID LINE - NEW** EXISTING GRID LINE - EXISTING $\langle 0 \rangle$ NEW PARTITION 99 REVISION NUMBER **NORTH ARROW REVISION TAG** — PARTITION TYPE **ROOM TAG** ROOM NAME ── ROOM NAME - DIMENSIONAL MODIFIER PARTITION TYPE 101 ROOM NUMBER — TYPE MODIFIER INDICATOR - RATING - WHERE APPLIES **ROOM NAME →** ROOM NAME — PARTITION **ROOM TAG** 101 ROOM NUMBER ROOM SF W/ AREA # AWI # or PRODUCT # WIDTH
12" DEPTH SPECIALTY EQUIPMENT TAG 11 CASEWORK TAG **GRAPHIC SCALE KEYNOTE TAG**

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

3. COMPLY WITH APPLICABLE CODES, ORDINANCES, REGULATIONS, AND AUTHORITIES HAVING JURISDICTION, AS A MINIMUM

4. COOPERATE WITH AUTHORITIES HAVING JURISDICTION AND SPECIAL INSPECTORS. PROVIDE TIMELY NOTIFICATION IN ADVANCE OF INSPECTIONS, AND ASSISTANCE AND FACILITIES TO

5. DO NOT PERFORM CHANGES TO THE WORK AFFECTING THE CONTRACT SUM OR CONTRACT TIME WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.

ACCOMMODATE INSPECTIONS.

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

. PROTECT EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE. DO NOT INTERRUPT EXISTING UTILITIES UNLESS AUTHORIZED BY OWNER AND/OR AUTHORITIES HAVING JURISDICTION. WHEN REQUIRED, PROVIDE ALTERNATE TEMPORARY SERVICES ACCEPTABLE TO GOVERNING AUTHORITIES.

INSTALL MANUFACTURED ITEMS, MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS, U.N.O.

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.

1. 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.

16. PROTECT EXISTING CONSTRUCTION, MATERIALS AND FINISHES

15. NOT USED

WITH ENCLOSURES AND OTHER SUITABLE MEASURES. COMPLY WITH GOVERNING REGULATIONS REGARDING ENVIRONMENTAL PROTECTION. REPAIR ANY DAMAGE TO MATCH CONDITIONS PRIOR TO START OF WORK.

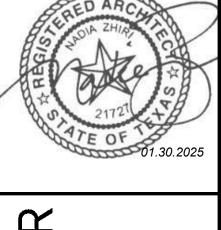
17. REMOVE EXISTING ITEMS NOT SHOWN TO REMAIN AND AS REQUIRED TO ACCOMMODATE NEW WORK. SALVAGE ITEMS WHERE INDICATED ON DRAWINGS.

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.





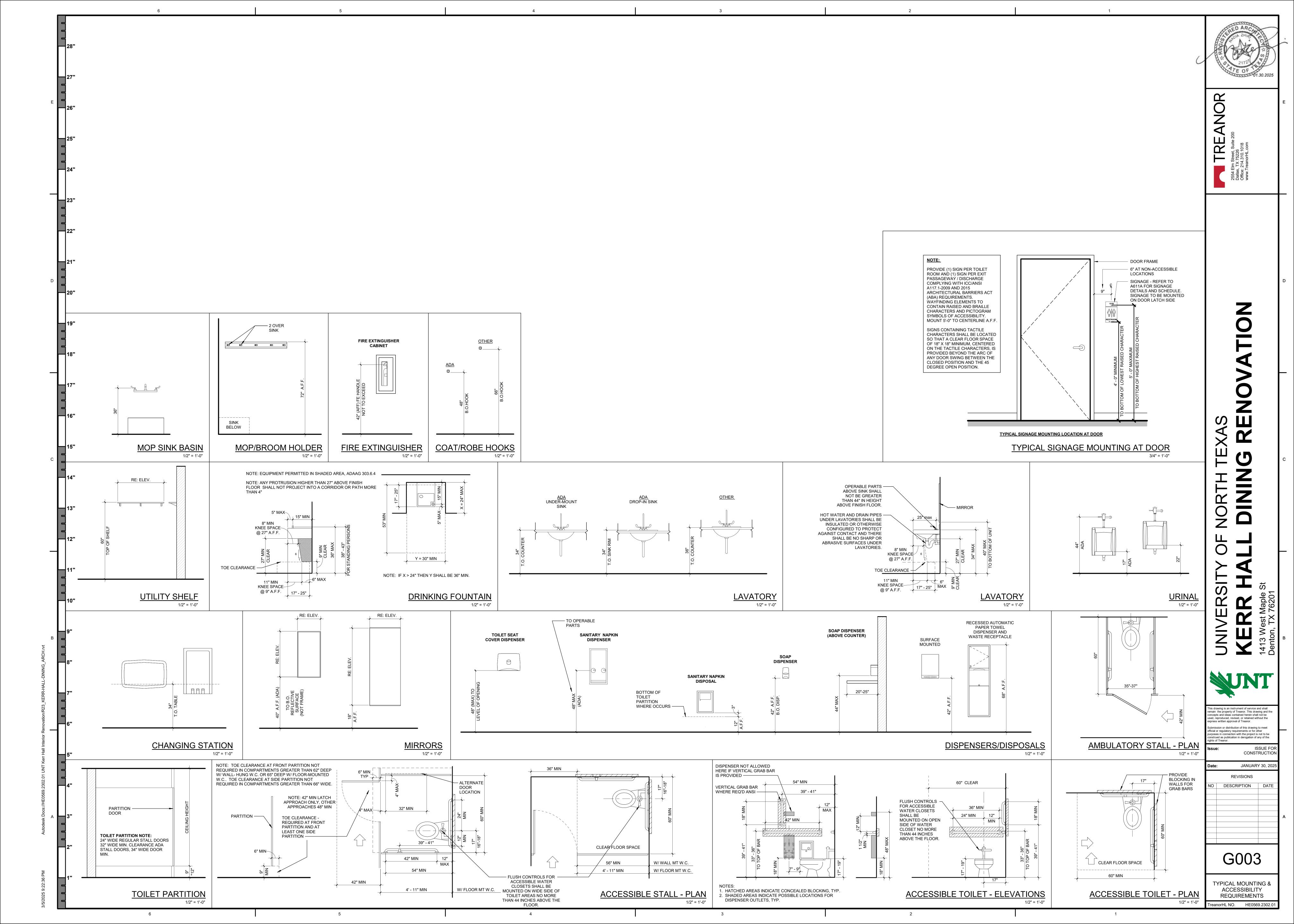
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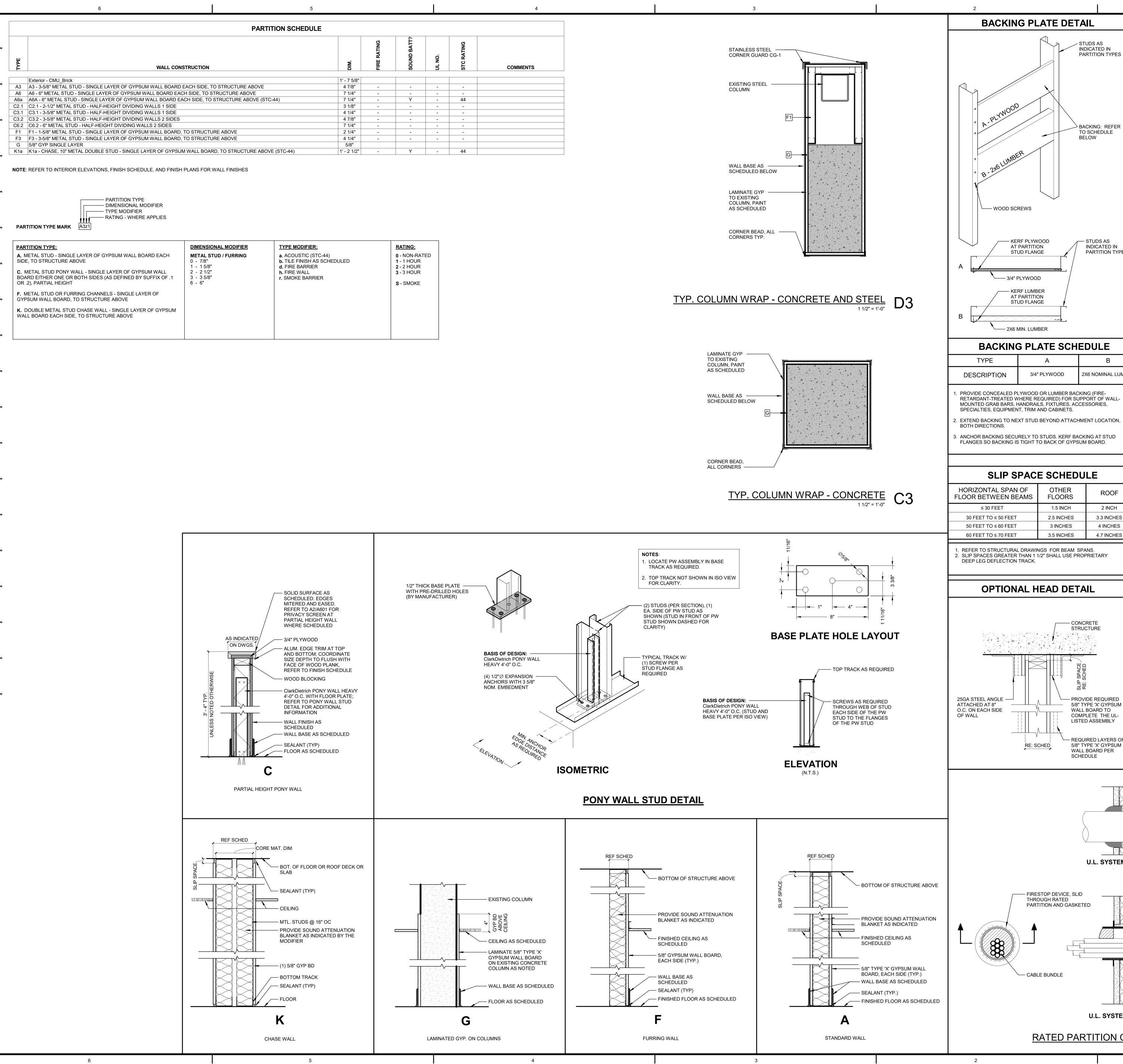
CONSTRUCTION JANUARY 30, 2025

NO DESCRIPTION DATE

GENERAL NOTES & ABBREVIATIONS

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STUDS AS

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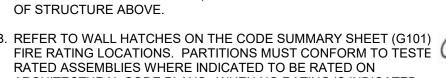
PARTITION TYPES

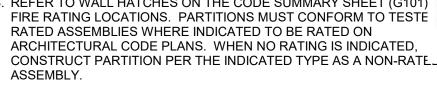
BACKING: REFER

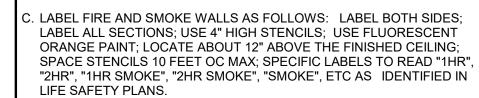
TO SCHEDULE

BELOW

A. STUD SPACING IS 16 INCHES ON CENTER MAX. UNLESS OTHERWIS INDICATED IN THE DRAWINGS, EXTEND PARTITIONS TO THE BOTT(OF STRUCTURE ABOVE.







ALL SOUND RATED WALLS AND THAT EXTEND TO STRUCTURE.

D. PROVIDE STENCIL WITH LABEL "SOUND" AS DESCRIBED IN NOTE 3 ON

FIRE RATED WALLS. F. SEAL PENETRATIONS & OPENINGS (INCLUDING THE PERIMETER) IN

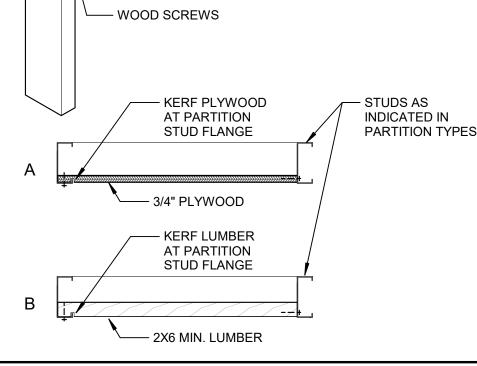
. PROVIDE FIRE STOP & SMOKE STOP SYSTEMS PER SPECIFICATION AT PENETRATIONS & OPENINGS (INCLUDING THE PERIMETER) THROUGH

SOUND RATED WALLS PER SPECIFICATIONS. G. PARTITION TYPES INDICATE BASIC WALL CONSTRUCTION ONLY. REFER TO CONSTRUCTION DOCUMENTS FOR OTHER REQUIREMENTS INCLUDING: MECHANICAL, ELECTRICAL, PLUMBING, BLOCKING & BACKING, WALL BASE, WALL FINISH, AND RECESSED & SURFACE

H. PROVIDE TESTED, RATED ASSEMBLIES AT TOP OF PARTITIONS INDICATED TO BE FIRE OR SMOKE RATED EXTEND TO BOTTOM OF STRUCTURE OR DECK ABOVE. ASSEMBLIES SHALL BE TESTED BY UNDERWRITERS LABORATORY OR OTHER TESTING FACILITY ACCEPTABLE TO AUTHORITY HAVING JURISDICTION. PROVIDE A FIRE AND SMOKE RATING CONSISTENT WITH PARTITION. ASSEMBLY SHALL ALLOW VERTICAL MOVEMENT PER THE SLIP SPACE SCHEDULE.

MOUNTED EQUIPMENT.

PROVIDE MOISTURE RESISTANT GYPSUM WALL BOARD AT WET LOCATIONS INCLUDING RESTROOMS AND LAUNDRY FACILITIES.



BACKING PLATE SCHEDULE

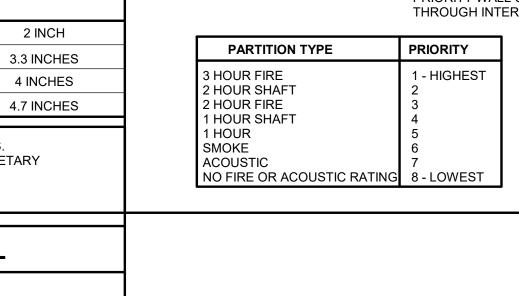
ESCRIPTION	3/4" PLYWOOD	2X6 NOMINAL LUMBER

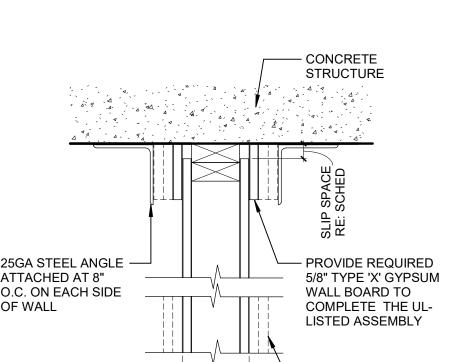
- SPECIALTIES, EQUIPMENT, TRIM AND CABINETS.

SLIP SPAC	E SCHEDU	LE
HORIZONTAL SPAN OF FLOOR BETWEEN BEAMS	OTHER FLOORS	ROOF
≤ 30 FEET	1.5 INCH	2 INCH
30 FEET TO ≤ 50 FEET	2.5 INCHES	3.3 INCHES

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

PARTITION PRIORITY: THE <u>LOWER</u> — PRIORITY WALL PRIORITY WALL IS TERMINATED IS CONTINUOUS GYPSUM BOARD OF HIGHER PRIORITY WALL CONTINUES THROUGH INTERSECTION

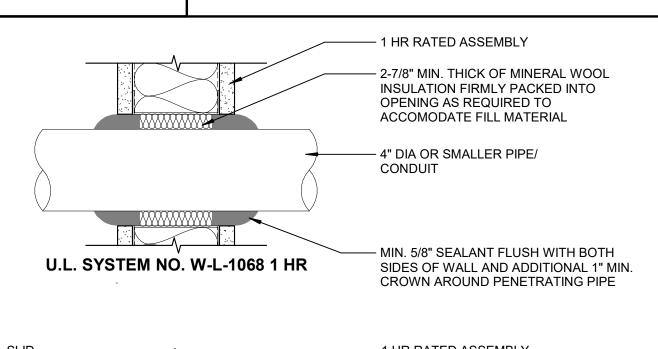


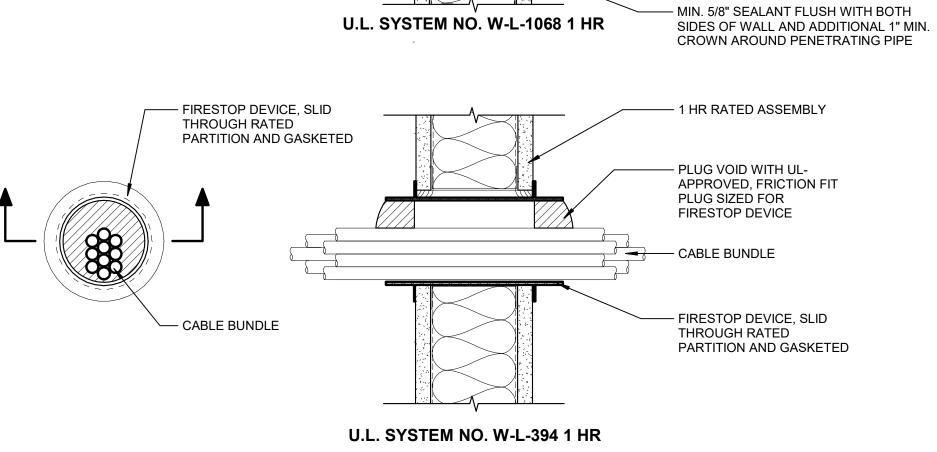


- REQUIRED LAYERS OF

5/8" TYPE 'X' GYPSUM

WALL BOARD PER SCHEDULE





RATED PARTITION CONDUIT AND PIPE PENETRATIONS A1

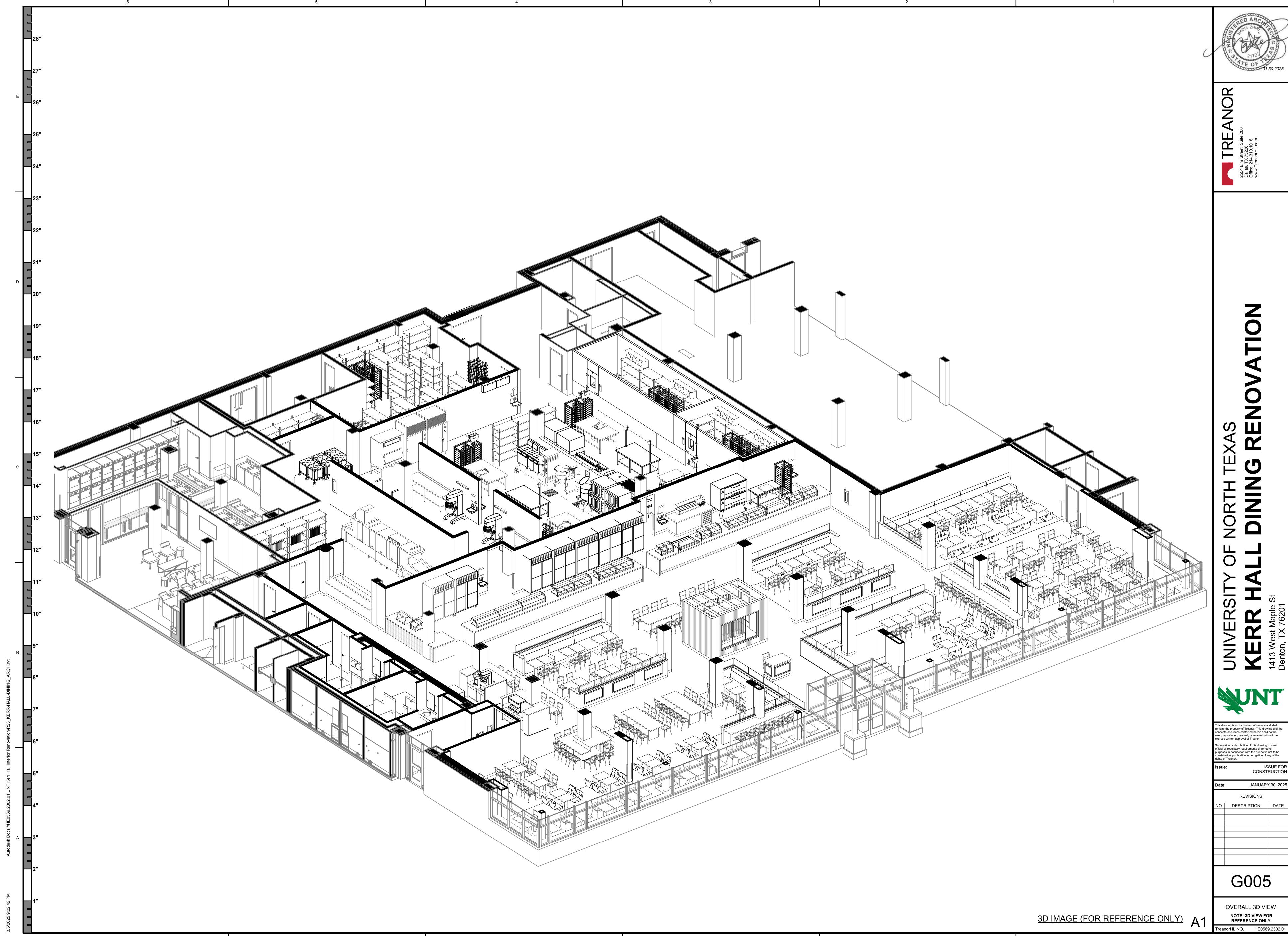
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G004

PARTITION TYPES, DETAILS, & NOTES

TreanorHL NO. HE0569.2302.0



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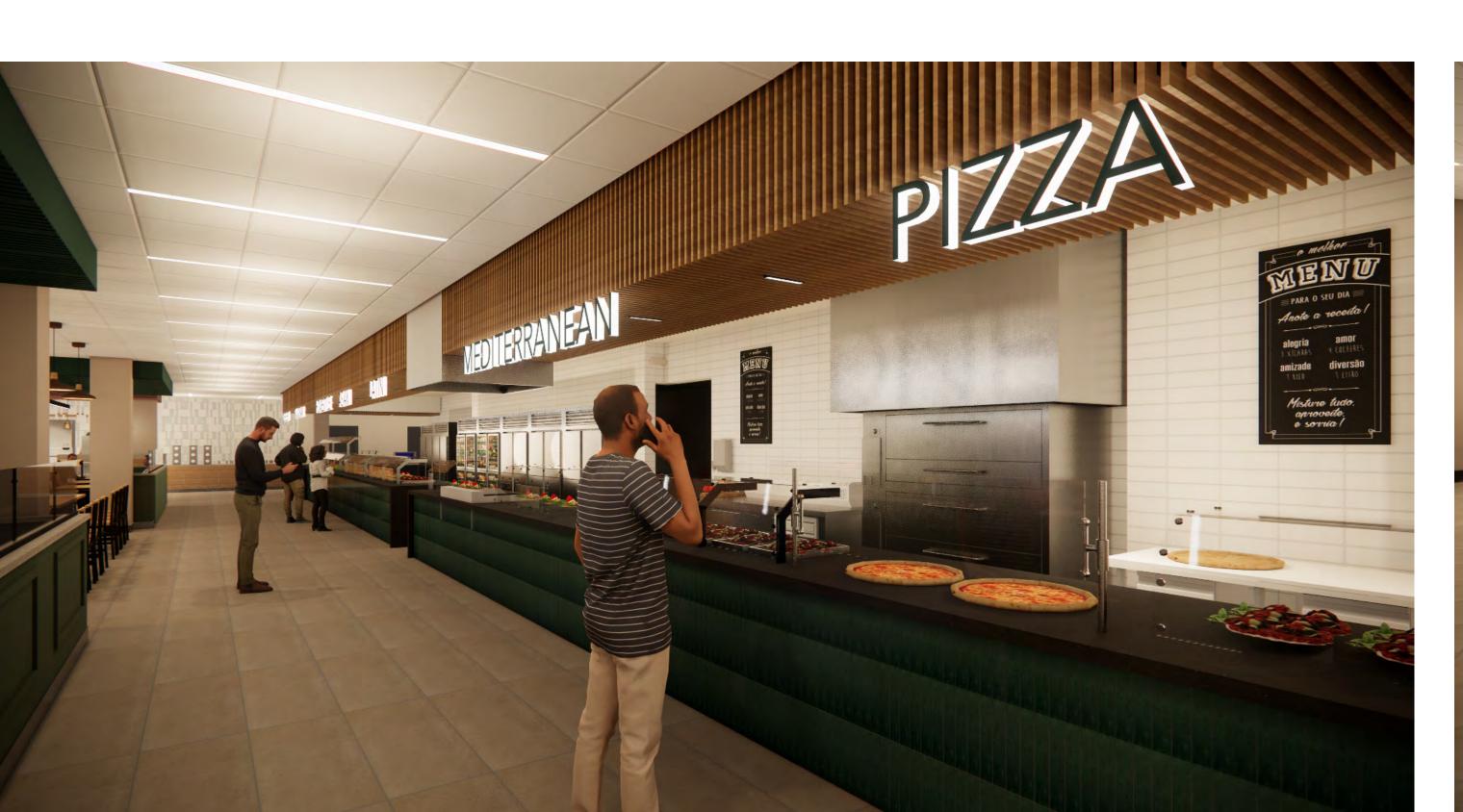
G005

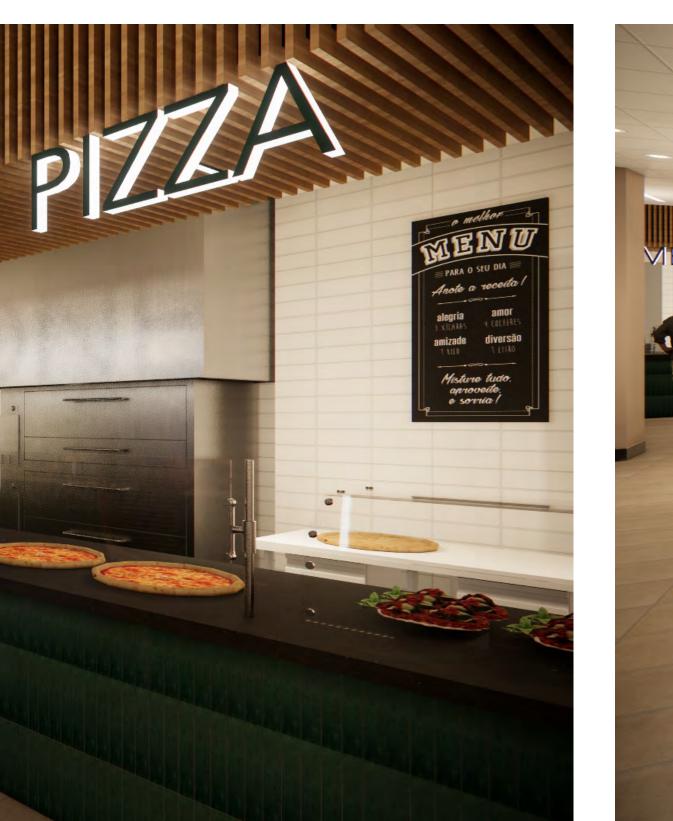
OVERALL 3D VIEW NOTE: 3D VIEW FOR REFERENCE ONLY.

ISSUE FOR CONSTRUCTION REVISIONS NO DESCRIPTION DATE

G006

RENDERINGS TreanorHL NO. HE0569.2302.01

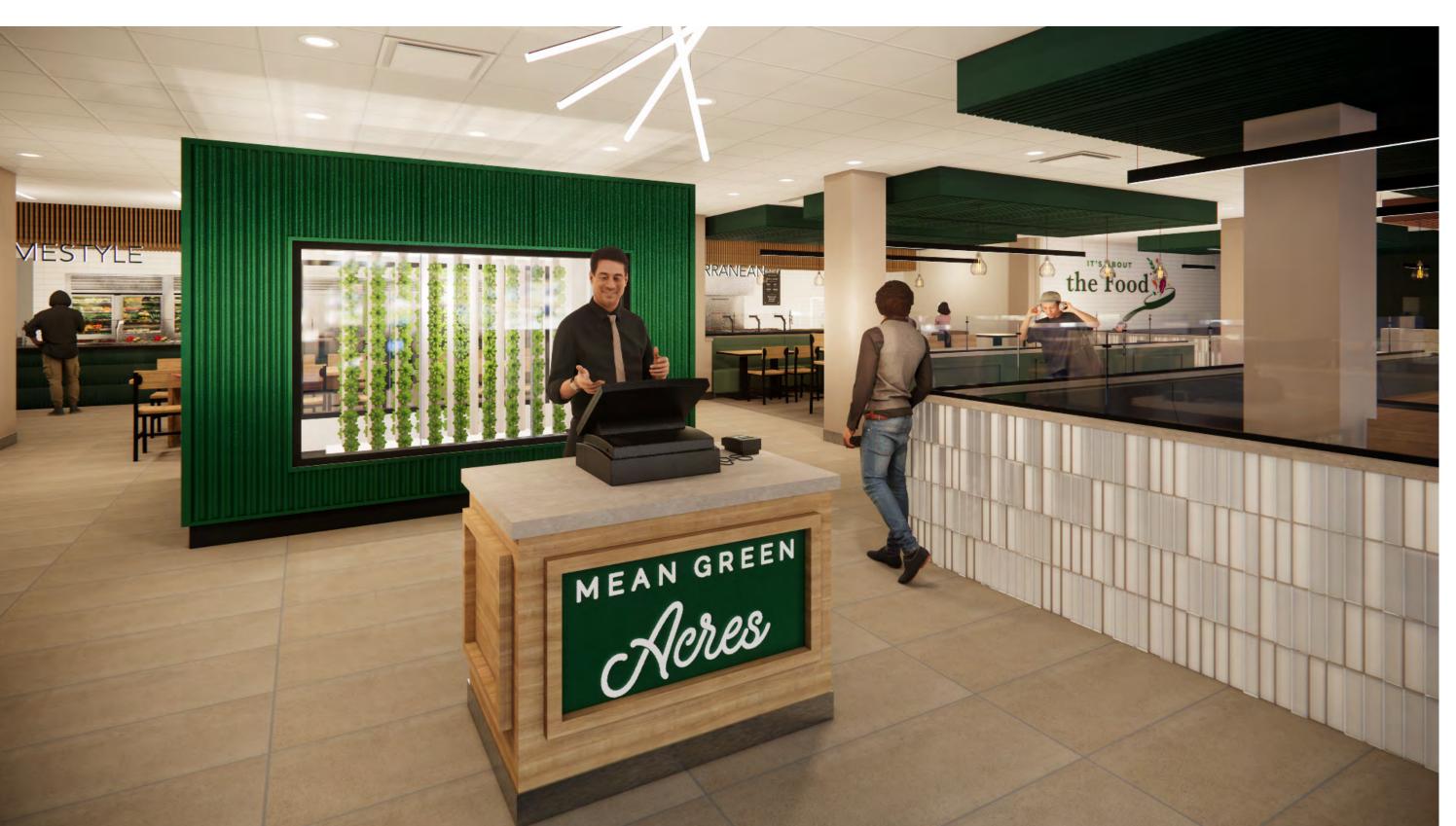


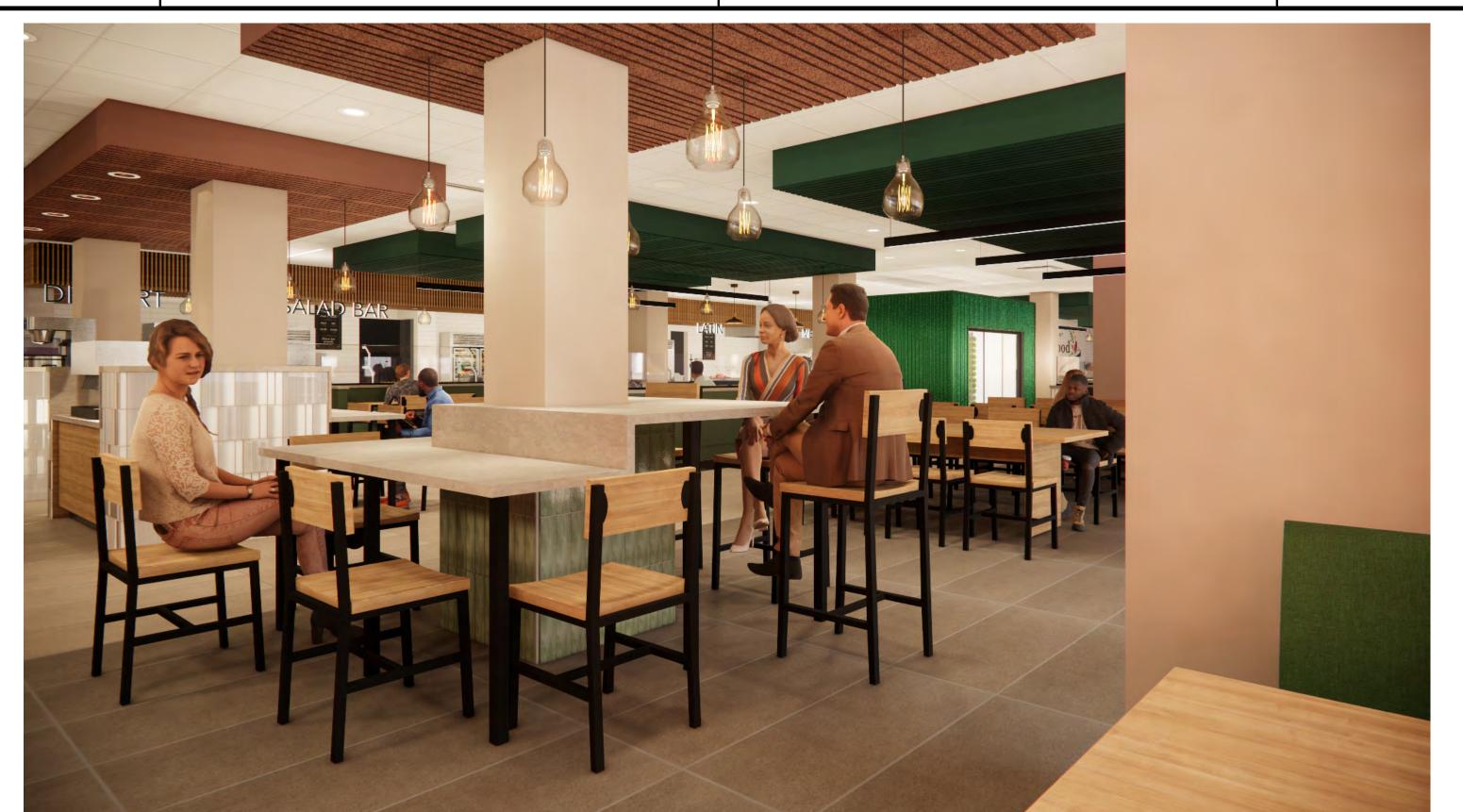


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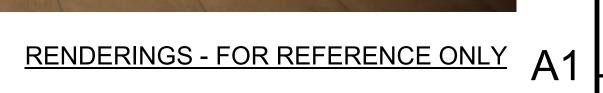












PROJECT CODE SUMMARY

PROJECT NAME

Kerr Hall Lobby, Restroom, & Laundry Renovation

ADDRESS 1413 West Maple St

Denton, TX 76201

OWNER

University of North Texas

PROJECT DESCRIPTION
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

EXISTING GOVERNING CODES & STANDARDS

a focal point for the Mean Greens Hydroponics display.

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

EXISTING CONSTRUCTION TYPE

Type II-B Construction

EXISTING FIRE RESISTANCE RATINGS - BUILDING ELEMENTS

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

EXISTING BUILDING HEIGHTS & AREAS

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

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

REQUIRED OCCUPANCY SEPARATIONS

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

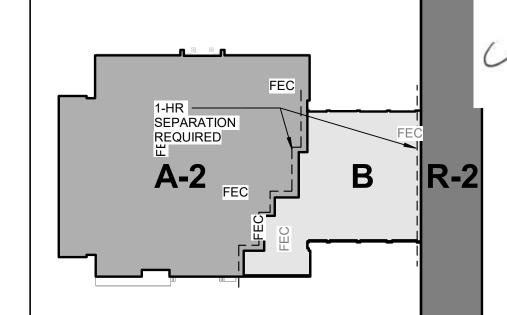
Provided throughout per NFPA 10. Maximum travel distance to the

FIRE PROTECTION SYSTEM

AUTOMATIC SPRINKLER SYSTEM
The building is fully sprinklered.

FIRE EXTINGUISHERS

nearest fire extinguisher location = 75'-0".



OCCUPANT LOAD CALCULATIONS

 AREA
 OCCUPANT LOAD

 DINING (A-2)
 380

 LOBBY (B)
 169

 DORMITORY (R-2)
 169

TOTAL LEVEL 1 OCCUPANT LOAD
718

COMMON PATH OF TRAVEL: 100-ft (B Occupancy), 75-ft (A Occupancy) TOTAL TRAVEL DISTANCE: 300-ft (B Occupancy), 250-ft (A Occupancy)

PLUMBING FIXTURE COUNTS

REQUIRE)		TER SETS	LAVAT	ORIES	DRINKING FOUNTAINS	SERVICE SINKS
SPACE	OCCUPANTS	М	w	М	w	FOUNTAINS	SINKS
DINING	350	3	3	2	2	2	1
KITCHEN	30	1	1	1	1	1	1

				T		T	
PROVIDE	:D	1	TER SETS	LAVAT	ORIES	DRINKING FOUNTAINS	SERVICE SINKS
SPACE	OCCUPANTS	М	w	М	w	FOUNTAINS	SINKS
DINING	350	3	3	2	2	0**	1
KITCHEN	30	1*	1*	1*	1*	1	1

* (1) SINGLE OCCUPANT RESTROOM FOR KITCHEN STAFF USE IS PROVIDED.
 ** 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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Issue: ISSUE FOR CONSTRUCTION

Date: JANUARY 30, 2025

REVISIONS

NO DESCRIPTION DATE

REVISIONS

DESCRIPTION DATE
ADDENDUM 2 05.23.25

G101

CODE SUMMARY

FreanorHL NO. HE0569.2302.0

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 LO 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

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

.. 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.

KEYNOTES

001 REMOVE EXISTING WALLS AND WALL BASE 004 DEMO AND INFILL EXISTING FLOOR VENTS. PREP FLOOR FOR NEW TILE FINISH. REFER TO MECHANICAL.

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 017 REMOVE EXISTING FLOORING, PREP SUBFLOOR FOR NEW FLOOR

018 REMOVE EXISTING CASEWORK / MILLWORK 021 REMOVE EXISTING SERVING EQUIPMENT AND ASSOCIATED COMPONENTS, TYPICAL

022 REMOVE EXISTING PASS-THROUGH FREEZER, DOORS, AND ASSOCIATED COMPONENTS 024 REMOVE EXISTING EYE WASH; REFER TO PLUMBING FOR ADDITIONAL SCOPE

028 EXISTING FLOOR-MOUNTED TOILET TO REMAIN 029 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 031 REMOVE EXISTING TOILET PARTITION

033 REMOVE EXISTING FLOOR-MOUNTED TOILET, REFER TO

PLUMBING 034 EXISTING WALL-MOUNTED SINK TO REMAIN 037 EXISTING MOP SINK TO REMAIN

042 REMOVE EXISTING WALL MOUNTED SINK 046 EXISTING BRICK TO REMAIN 049 EXISTING DOOR & FRAME TO REMAIN; REFER TO DOOR SCHEDULE FOR EXTENT OF SCOPE IN THIS AREA

071 EXISTING EXTERIOR DOOR AND TRANSOM WINDOW TO REMAIN 072 EXISTING EXTERIOR DOOR AND HOLLOW METAL FRAME TO REMAIN. REMOVE LOUVER FROM EXISTING HOLLOW METAL FRAME AND PREP OPENING TO RECEIVE NEW LOUVER CUSTOM FABRICATED FOR EXISTING FRAMED OPENING.

073 REMOVE EXISTING SINK AND DRINKING FOUNTAIN

074 REMOVE EXISTING LOCKERS AND CONCRETE CURB. PATCH AND REPAIR FLOORING TO RECEIVE NEW FINISH. 076 CUT OPENING IN EXISTING MASONRY TO ACCOMMODATE NEW LOUVER; REFER TO C6/A601 AND MECHANICAL FOR ADDITIONAL

INFORMATION EXISTING FREEZER ASSEMBLY TO BE REMOVED IN ITS ENTIRETY REMOVAL TO INCLUDE THE ARCHITECTURAL WALLS, FLOOR TILE CONCRETE TOPPING SLAB, REDWOOD THERMAL BREAK AND FREEZER SLAB INSULATION. CONTRACTOR TO PROVIDE BORE TESTING TO CONFIRM PIT DEPTH AND LOCATION PRIOR TO REMOVING TOPPING SLAB. UPON REMOVAL OF EXISTING

FREEZER FLOOR ASSEMBLY, EXISTING DEPRESSION TO BE CLEANED, DRIED AND REPAIR ANY EXISTING FOUNDATION DAMAGE IF EXISTING. FILL DEPRESSION WITH CONCRETE TOPPING, OVERALL HEIGHT TO MATCH EXISTING KITCHEN FLOOR FINISHED FLOOR FROM KITCHEN TO NEW COLD STORAGE ASSEMBLY TO BE FLUSH AND LEVEL. NEW COLD STORAGE

DEMOLITION LEGEND

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

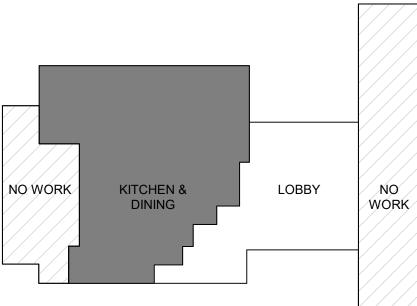
1/8" = 1'-0"

AREAS NOT IN SCOPE

EXISTING WALL TO REMAIN; PROTECT IN PLACE EXISTING FIRE-RATED WALL TO REMAIN

EXISTING DOOR, FRAME AND ASSOCIATED HARDWARE TO REMAIN; PROTECT IN PLACE

REMOVE EXISTING WALL IN ITS ENTIRETY REMOVE DOOR AND FRAME IN ITS ENTIRETY U.N.O.; SALVAGE AND STORE EXISTING DOOR HARDWARE IN GOOD WORKING CONDITION



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AD101

DEMOLITION PLAN

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ADDENDUM 2 05.23.2 ADDENDUM 3 05.28.2

DESCRIPTION

CONSTRUCTION

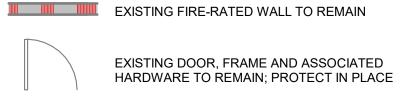
JANUARY 30, 2025

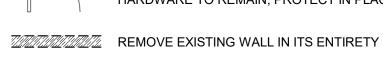
DEMOLITION GENERAL NOTES

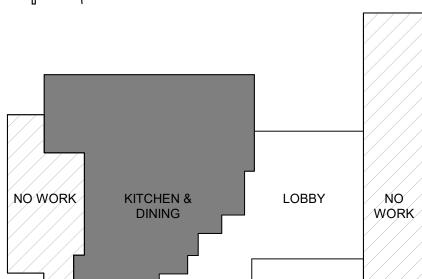
- A. DO NOT SCALE DRAWINGS.
- C. RETURN ITEMS TO OWNER WHERE NOTED TO BE SALVAGED, OR IN NEW WORK WITHIN PROJECT SCOPE. DISPOSE OFFSITE PER L REGULATIONS DEMOLITION MATERIALS NOT CLAIMED BY OWNER
- D. PATCH AND REPAIR AREAS AFFECTED BY DEMOLITION AND SHOWN
- TO REMAIN, FOR NEW SCOPE OF WORK. E. RETURN REMAINING FURNISHINGS AND EQUIPMENT TO OWNER
- F. EXISTING CONDITIONS INFORMATION WAS OBTAINED FROM DOCUMENTS AND INFORMATION SUPPLIED TO THE ARCHITECT.
- G. 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.
- I. 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
- .. 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
- O. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS
- 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.
- 029 REMOVE EXISTING EXHAUST HOOD AND PREPARE EXISTING OVERHEAD DUCT CHASE FOR INSTALLATION OF NEW EXHAUST HOOD; REFER TO MECHANICAL
- 040 REMOVE GYP SOFFIT, AND ASSOCIATED FRAMED BULKHEAD 044 NO CEILING IS CURRENTLY PRESENT IN THE DINING ROOM SPACE. REMOVE REMNANTS OF EXISTING CEILING GRID AND TEMPORARY



EXISTING WALL TO REMAIN; PROTECT IN PLACE







AD151 DEMOLITION RCP

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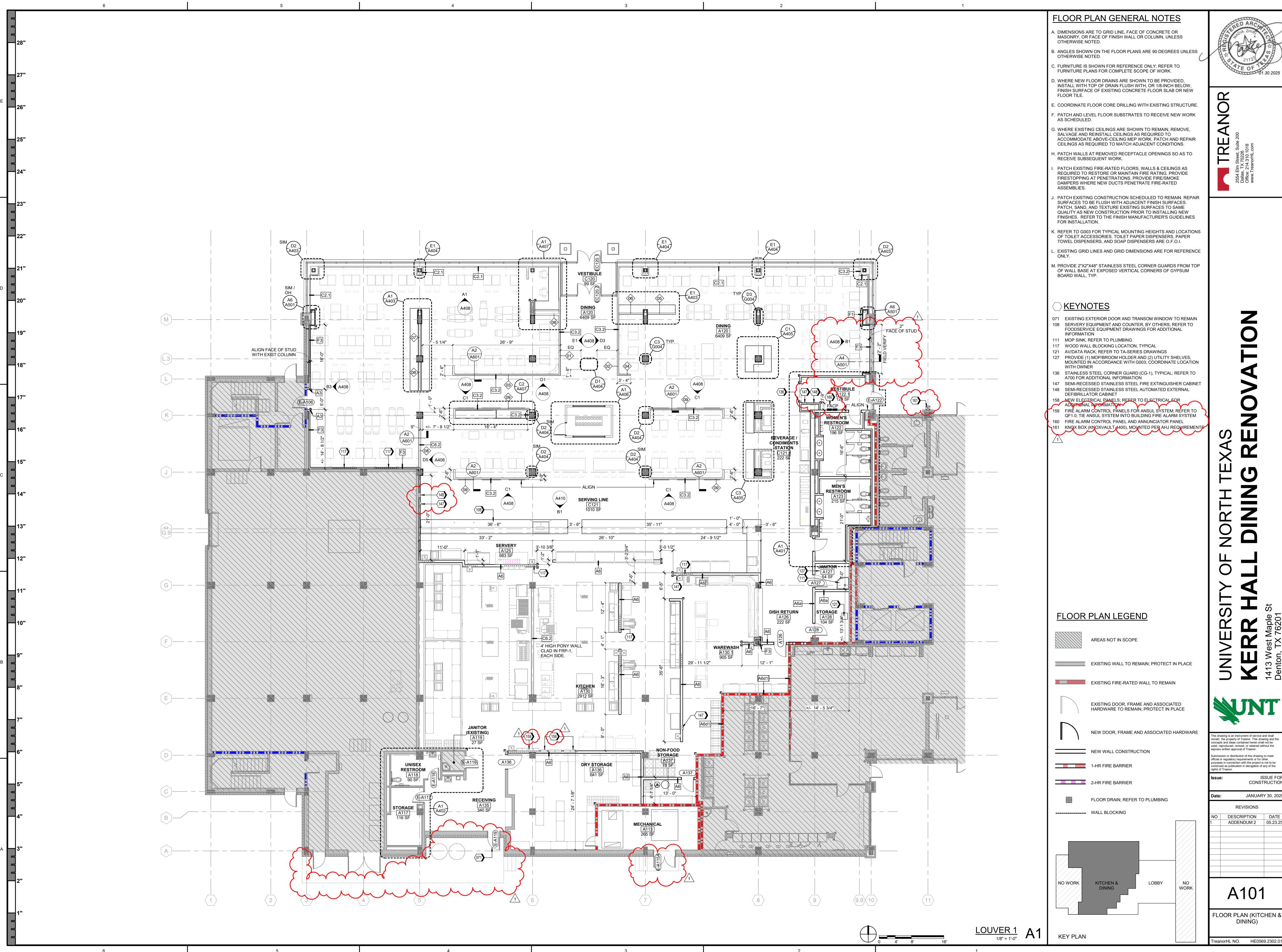
REVISIONS

DESCRIPTION DATE ADDENDUM 2 05.23.2

CONSTRUCTION

JANUARY 30, 2025

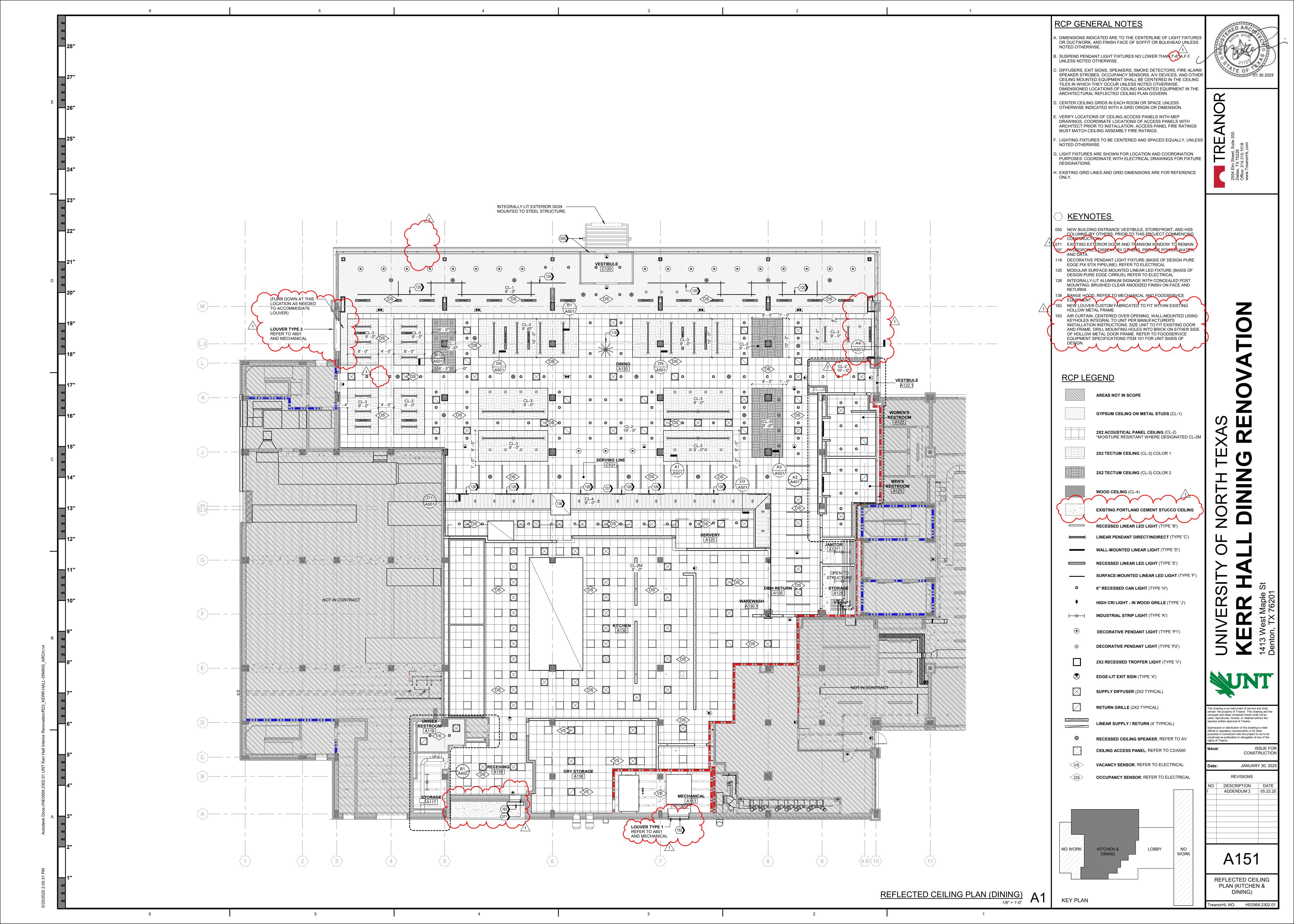
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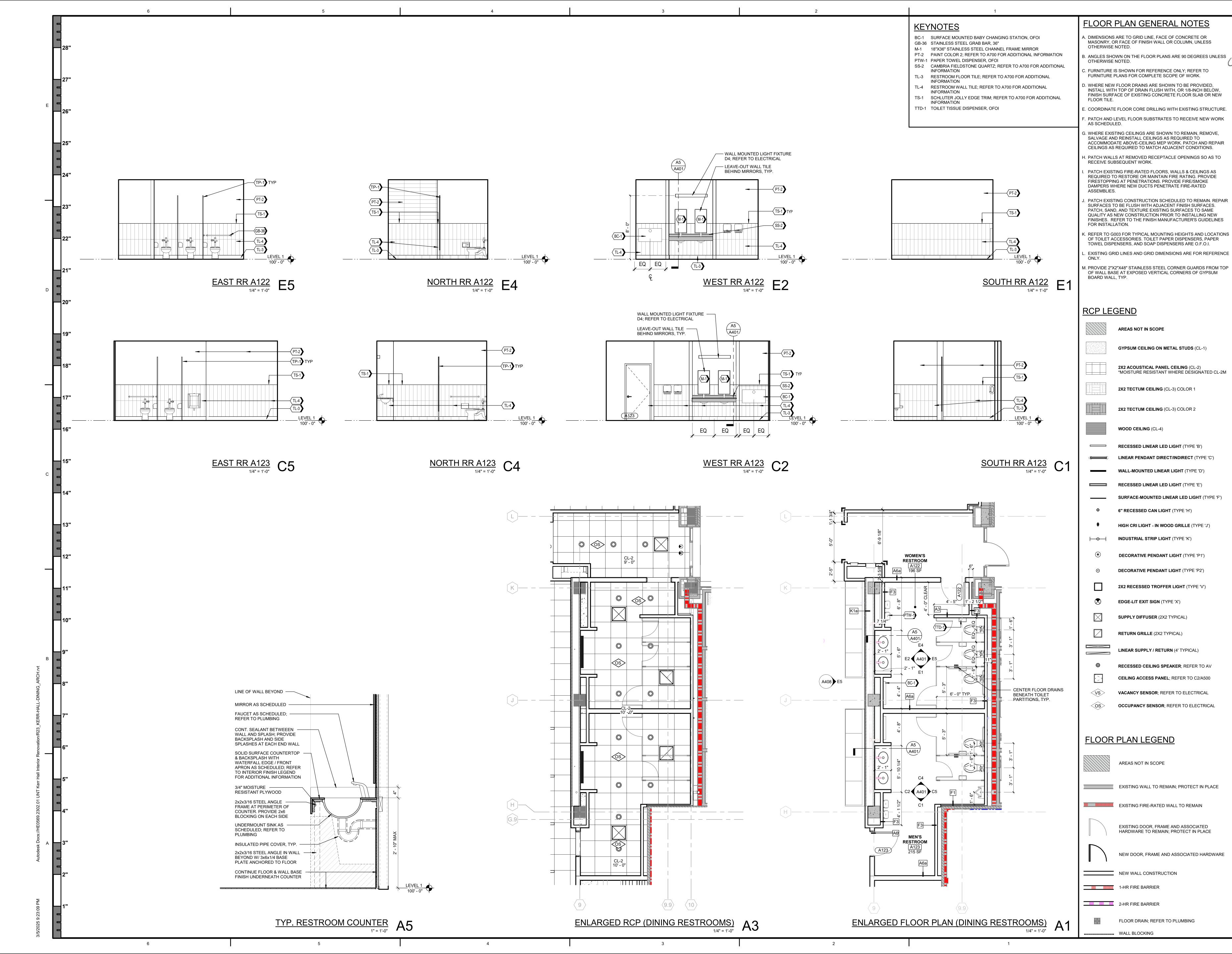




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ADDENDUM 2 05.23.25

A101







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Dallas, TX 75226
Office: 214.310.1018
www.TreanorHL.com

UNIVERSITY OF NORTH TEXAS KERR HALL DINING RENOVATIO

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A401

ENLARGED PLANS &

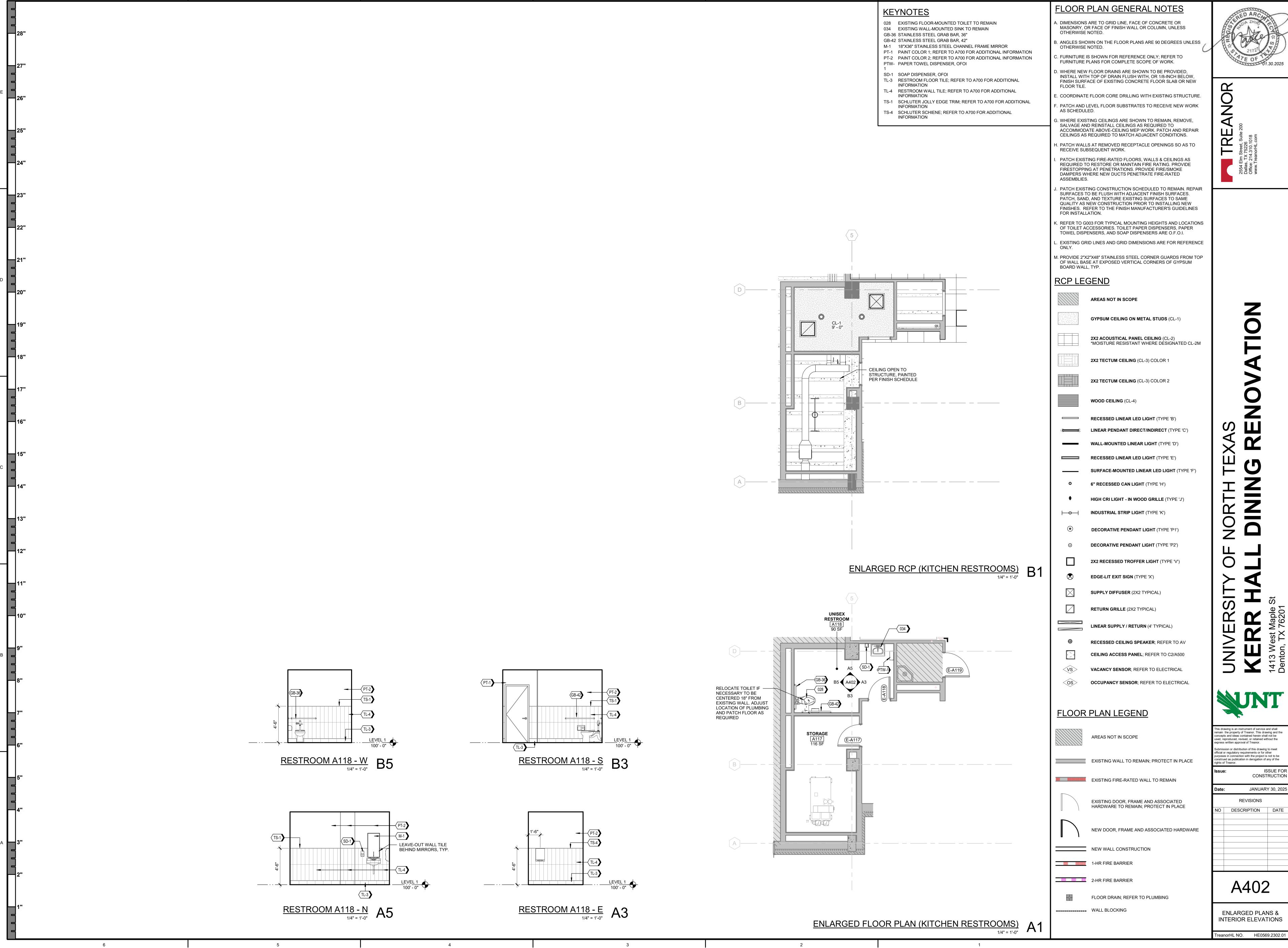
INTERIOR ELEVATIONS

TreanorHL NO. HE0569.2302.0

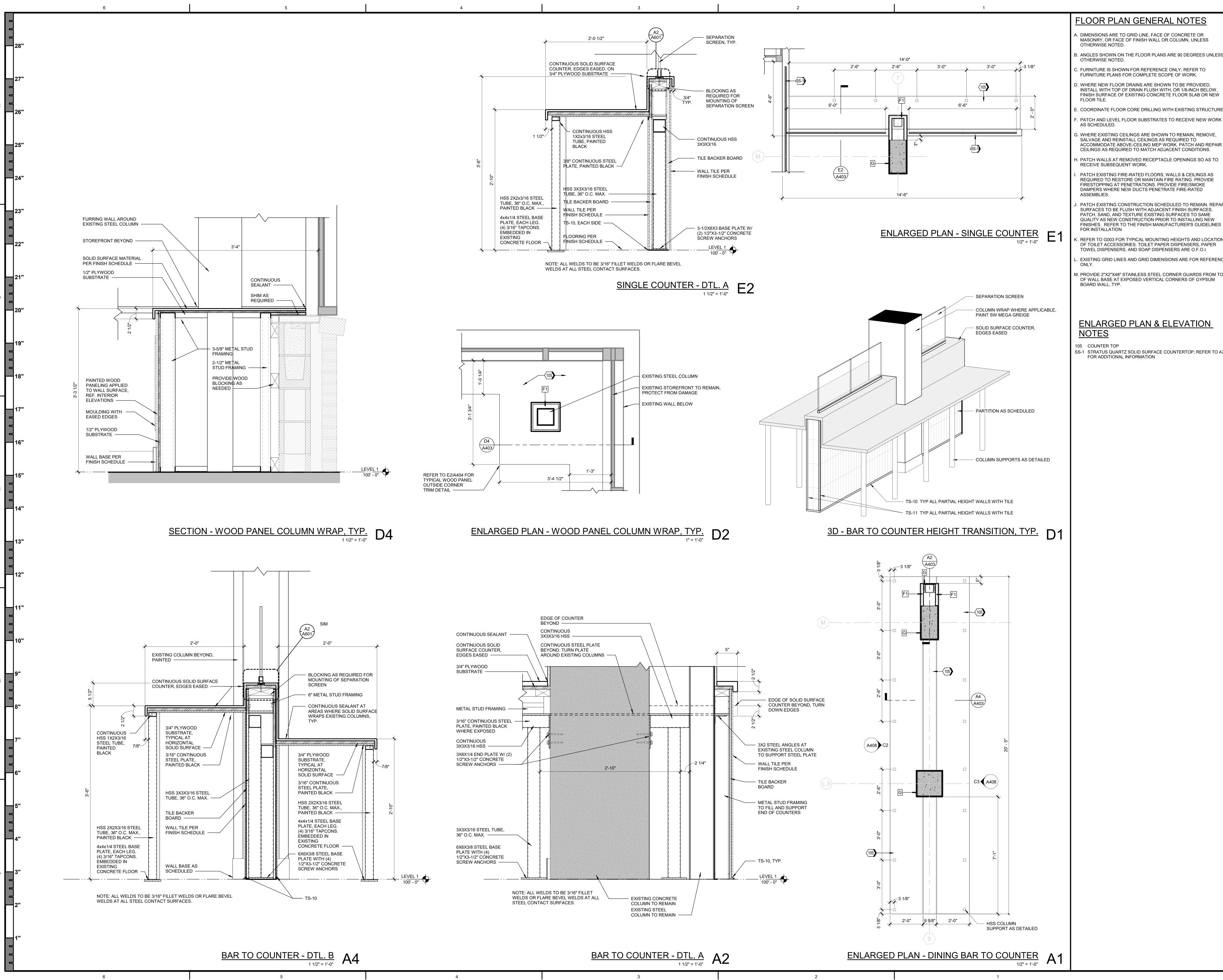
DESCRIPTION DATE

CONSTRUCTION

JANUARY 30, 2025







FLOOR PLAN GENERAL NOTES

A. DIMENSIONS ARE TO GRID LINE, FACE OF CONCRETE OR MASONRY, OR FACE OF FINISH WALL OR COLUMN, UNLESS

B. ANGLES SHOWN ON THE FLOOR PLANS ARE 90 DEGREES UNLESS

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

E. COORDINATE FLOOR CORE DRILLING WITH EXISTING STRUCTURE. F. PATCH AND LEVEL FLOOR SUBSTRATES TO RECEIVE NEW WORK

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

FIRESTOPPING AT PENETRATIONS. PROVIDE FIRE/SMOKE DAMPERS WHERE NEW DUCTS PENETRATE FIRE-RATED J. PATCH EXISTING CONSTRUCTION SCHEDULED TO REMAIN. REPAIR SURFACES TO BE FLUSH WITH ADJACENT FINISH SURFACES.

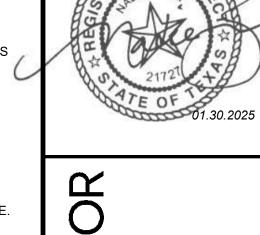
REFER TO G003 FOR TYPICAL MOUNTING HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES. TOILET PAPER DISPENSERS, PAPER

. EXISTING GRID LINES AND GRID DIMENSIONS ARE FOR REFERENCE

M. PROVIDE 2"X2"X48" STAINLESS STEEL CORNER GUARDS FROM TOP OF WALL BASE AT EXPOSED VERTICAL CORNERS OF GYPSUM

ENLARGED PLAN & ELEVATION

SS-1 STRATUS QUARTZ SOLID SURFACE COUNTERTOP; REFER TO A700 FOR ADDITIONAL INFORMATION



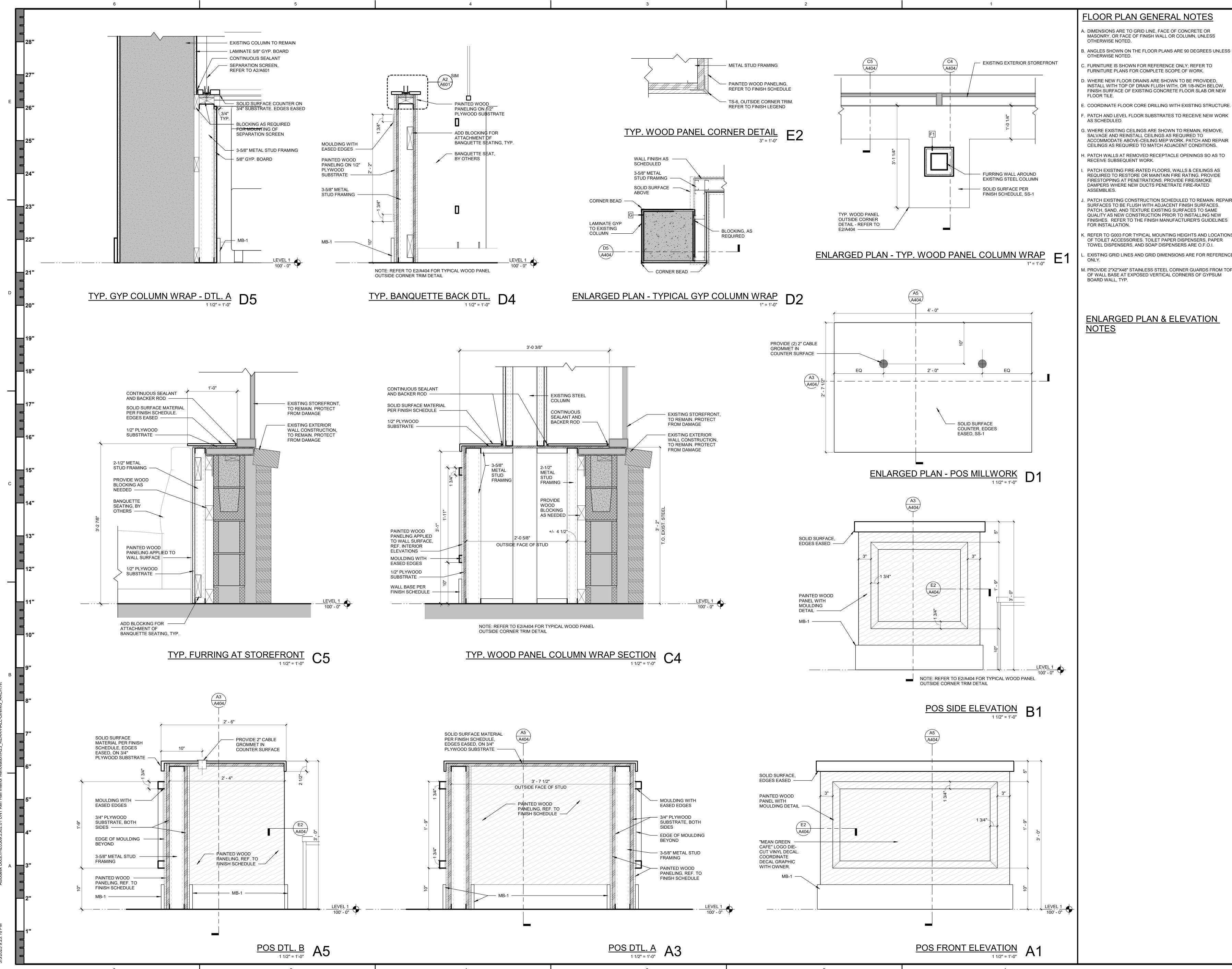
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A403

ENLARGED PLANS, INTERIOR ELEVATIONS, & DETAILS FreanorHL NO. HE0569.2302.0





INSTALL WITH TOP OF DRAIN FLUSH WITH, OR 1/8-INCH BELOW,

E. COORDINATE FLOOR CORE DRILLING WITH EXISTING STRUCTURE. F. PATCH AND LEVEL FLOOR SUBSTRATES TO RECEIVE NEW WORK

ACCOMMODATE ABOVE-CEILING MEP WORK. PATCH AND REPAIR

H. PATCH WALLS AT REMOVED RECEPTACLE OPENINGS SO AS TO . PATCH EXISTING FIRE-RATED FLOORS, WALLS & CEILINGS AS REQUIRED TO RESTORE OR MAINTAIN FIRE RATING. PROVIDE

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

K. REFER TO G003 FOR TYPICAL MOUNTING HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES. TOILET PAPER DISPENSERS, PAPER

EXISTING GRID LINES AND GRID DIMENSIONS ARE FOR REFERENCE M. PROVIDE 2"X2"X48" STAINLESS STEEL CORNER GUARDS FROM TOP

ENLARGED PLAN & ELEVATION

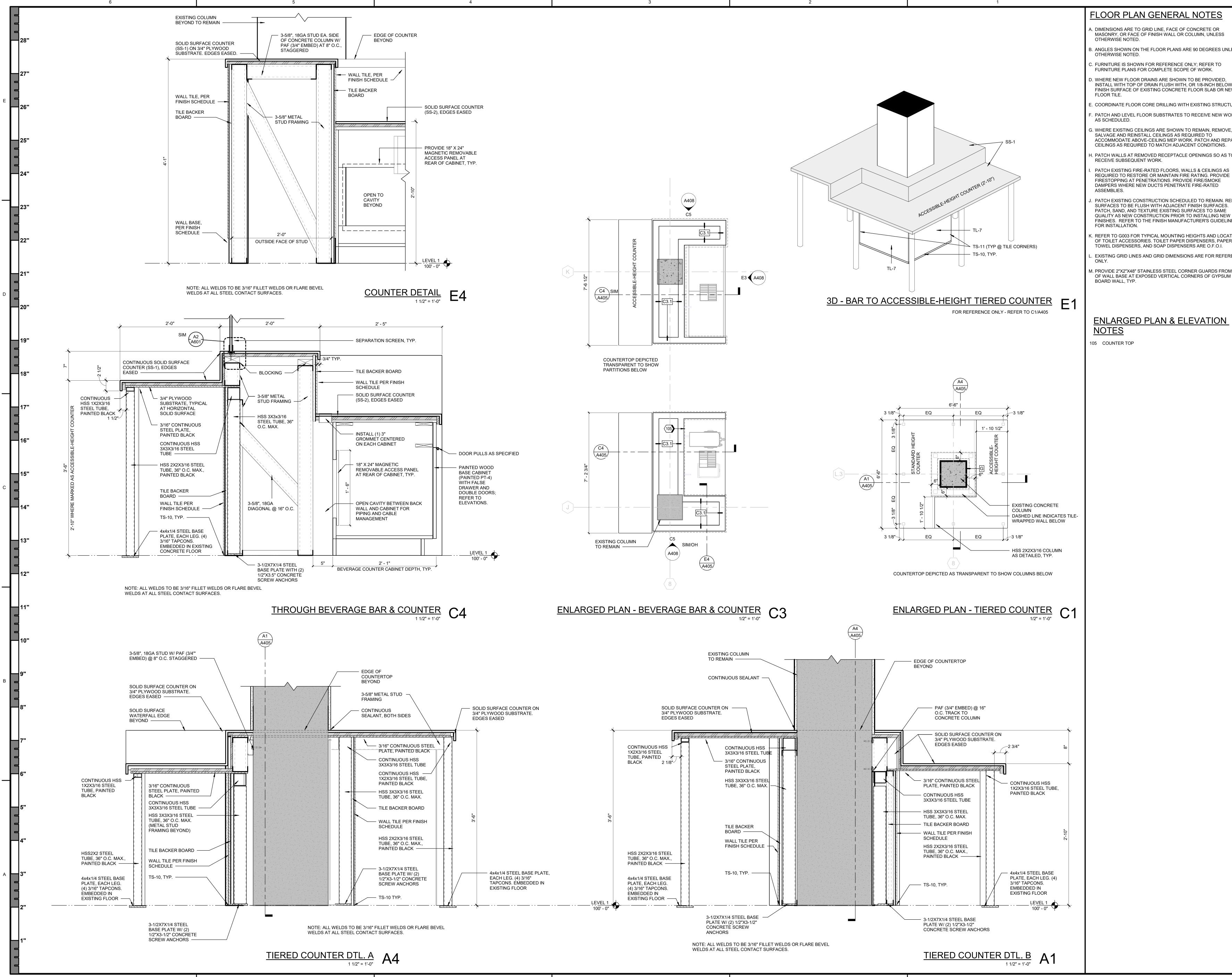
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CONSTRUCTION

JANUARY 30, 2025 REVISIONS DESCRIPTION DATE

A404

ENLARGED PLANS, INTERIOR ELEVATIONS, & DETAILS TreanorHL NO. HE0569.2302.0



FLOOR PLAN GENERAL NOTES

A. DIMENSIONS ARE TO GRID LINE, FACE OF CONCRETE OR MASONRY, OR FACE OF FINISH WALL OR COLUMN, UNLESS

B. ANGLES SHOWN ON THE FLOOR PLANS ARE 90 DEGREES UNLESS

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

E. COORDINATE FLOOR CORE DRILLING WITH EXISTING STRUCTURE. F. PATCH AND LEVEL FLOOR SUBSTRATES TO RECEIVE NEW WORK

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

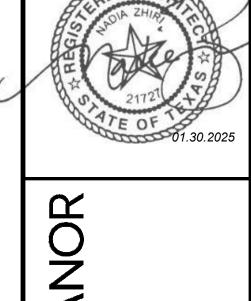
FIRESTOPPING AT PENETRATIONS. PROVIDE FIRE/SMOKE DAMPERS WHERE NEW DUCTS PENETRATE FIRE-RATED J. PATCH EXISTING CONSTRUCTION SCHEDULED TO REMAIN. REPAIR SURFACES TO BE FLUSH WITH ADJACENT FINISH SURFACES. PATCH, SAND, AND TEXTURE EXISTING SURFACES TO SAME QUALITY AS NEW CONSTRUCTION PRIOR TO INSTALLING NEW

FINISHES. REFER TO THE FINISH MANUFACTURER'S GUIDELINES 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

M. PROVIDE 2"X2"X48" STAINLESS STEEL CORNER GUARDS FROM TOP OF WALL BASE AT EXPOSED VERTICAL CORNERS OF GYPSUM

ENLARGED PLAN & ELEVATION



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A405

ENLARGED PLANS,

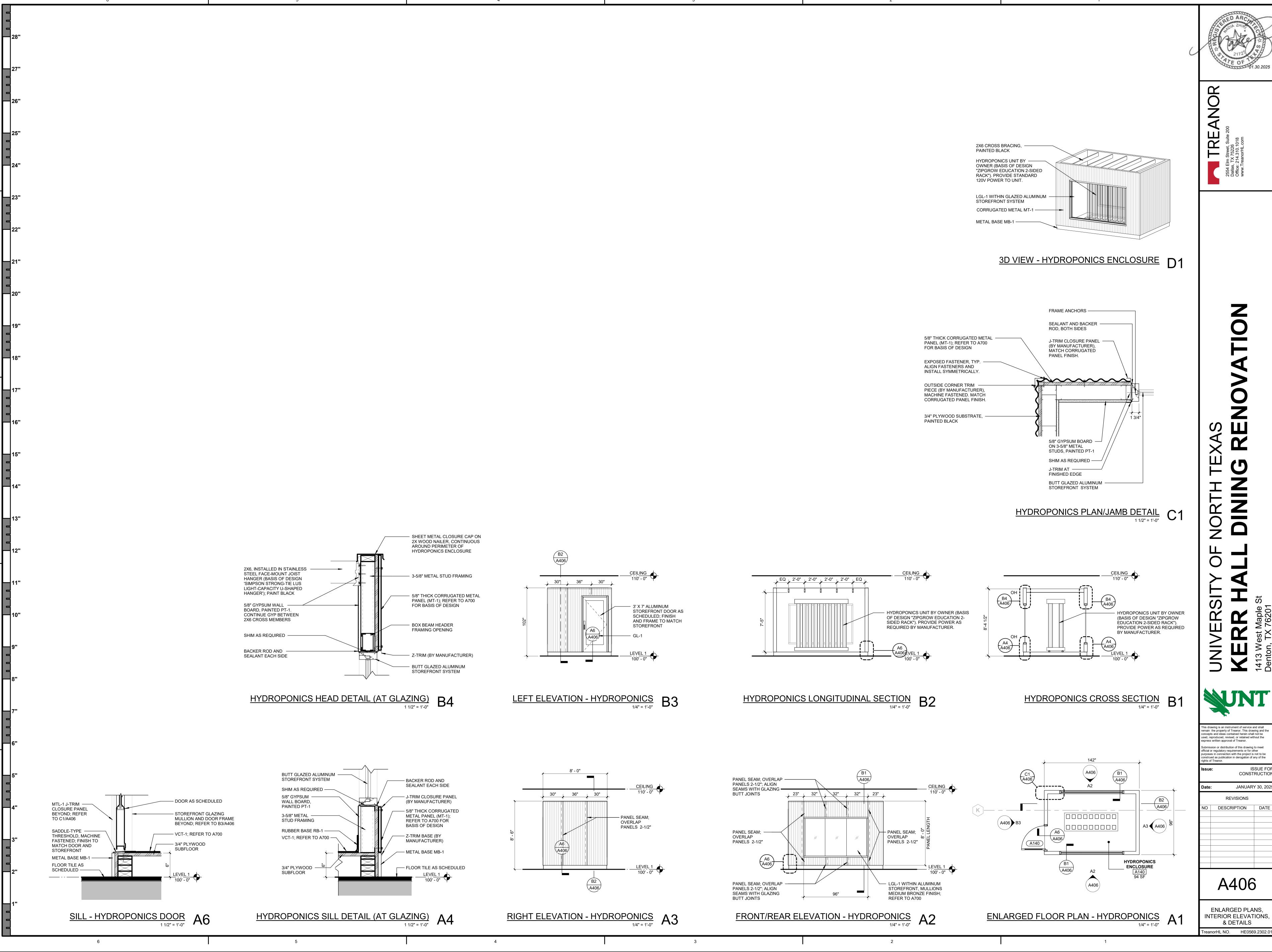
INTERIOR ELEVATIONS, & DETAILS

FreanorHL NO. HE0569.2302.0

DESCRIPTION DATE

CONSTRUCTION

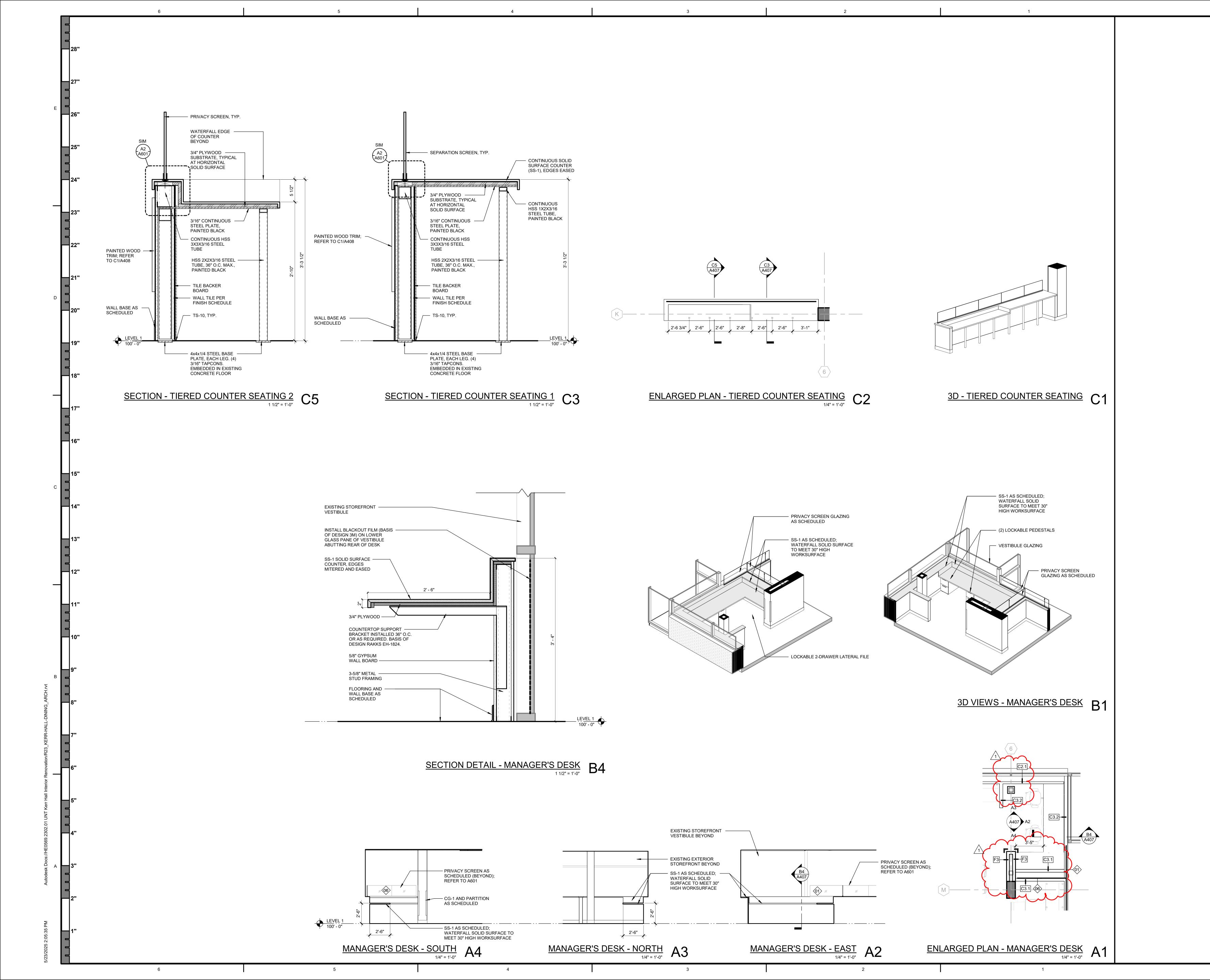
JANUARY 30, 2025



A406 ENLARGED PLANS, INTERIOR ELEVATIONS, & DETAILS

CONSTRUCTION

JANUARY 30, 2025







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REVISIONS

A407

ENLARGED PLANS, INTERIOR ELEVATIONS, & DETAILS

TreanorHL NO. HE0569.2302.01

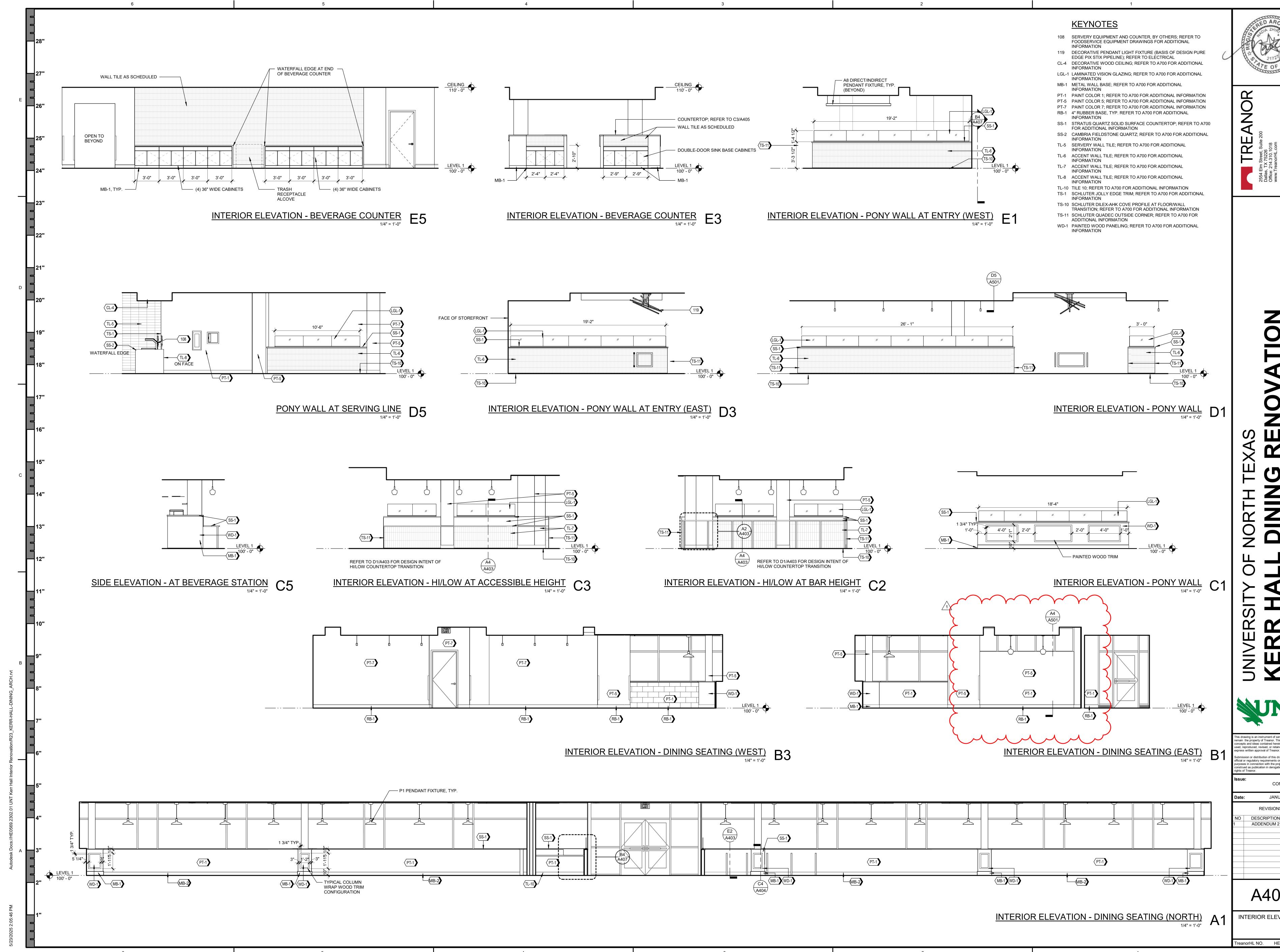
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CONSTRUCTION

JANUARY 30, 2025



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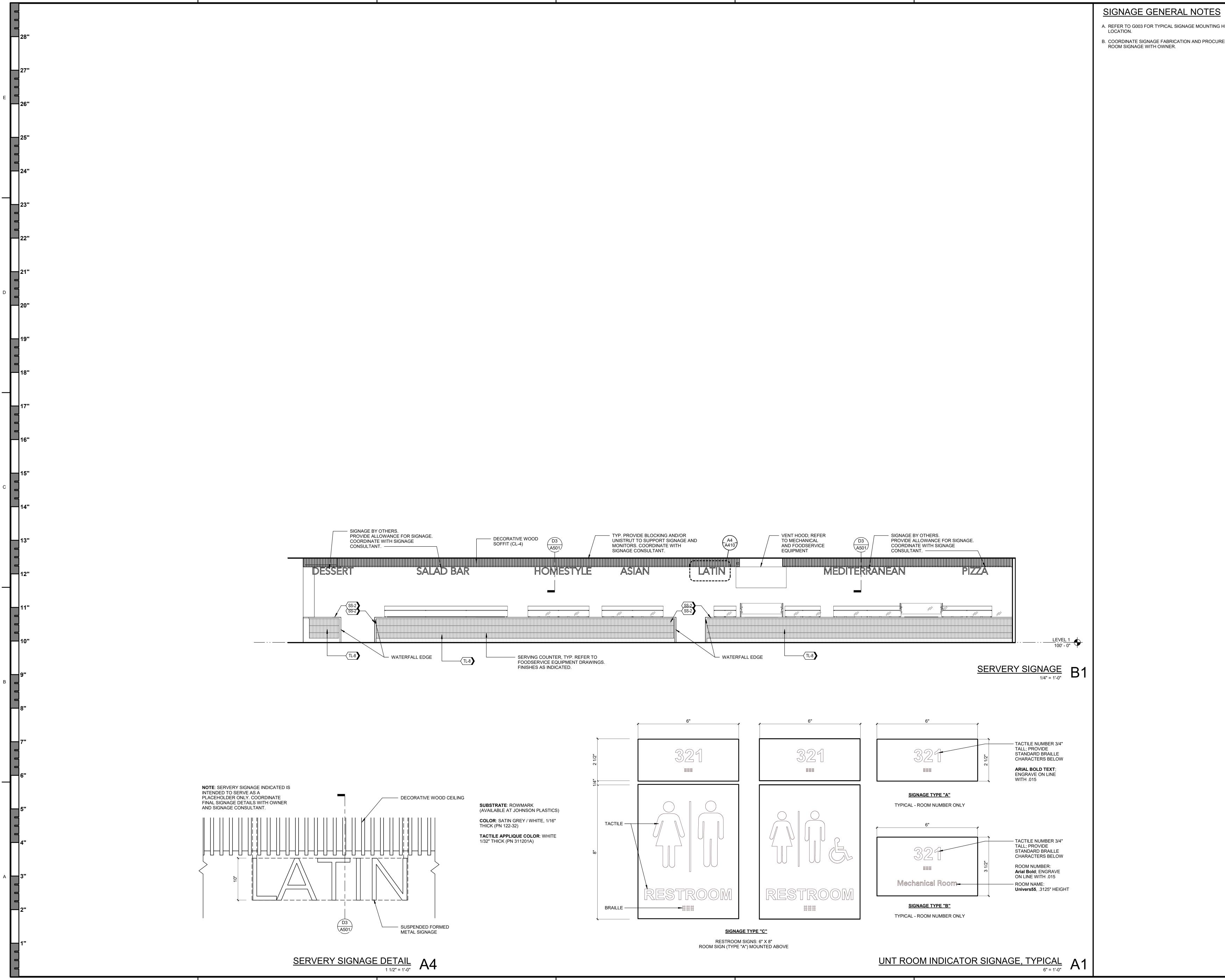
ISSUE FOR CONSTRUCTION REVISIONS

JANUARY 30, 2025 DESCRIPTION DATE ADDENDUM 2 05.23.25

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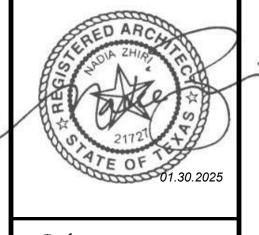
INTERIOR ELEVATIONS

TreanorHL NO. HE0569.2302.01



A. REFER TO G003 FOR TYPICAL SIGNAGE MOUNTING HEIGHT AND LOCATION.

B. COORDINATE SIGNAGE FABRICATION AND PROCUREMENT OF ALL ROOM SIGNAGE WITH OWNER.



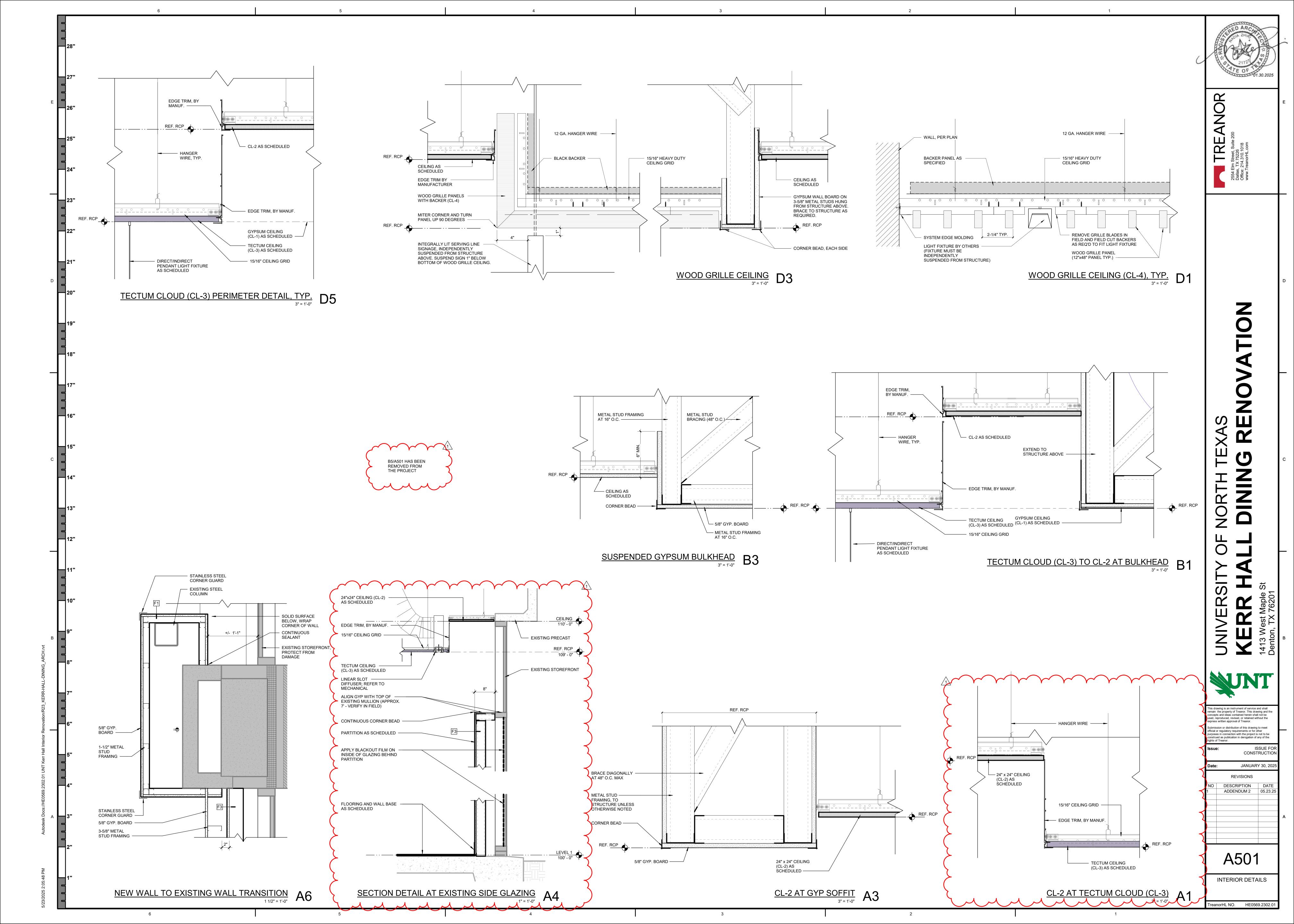
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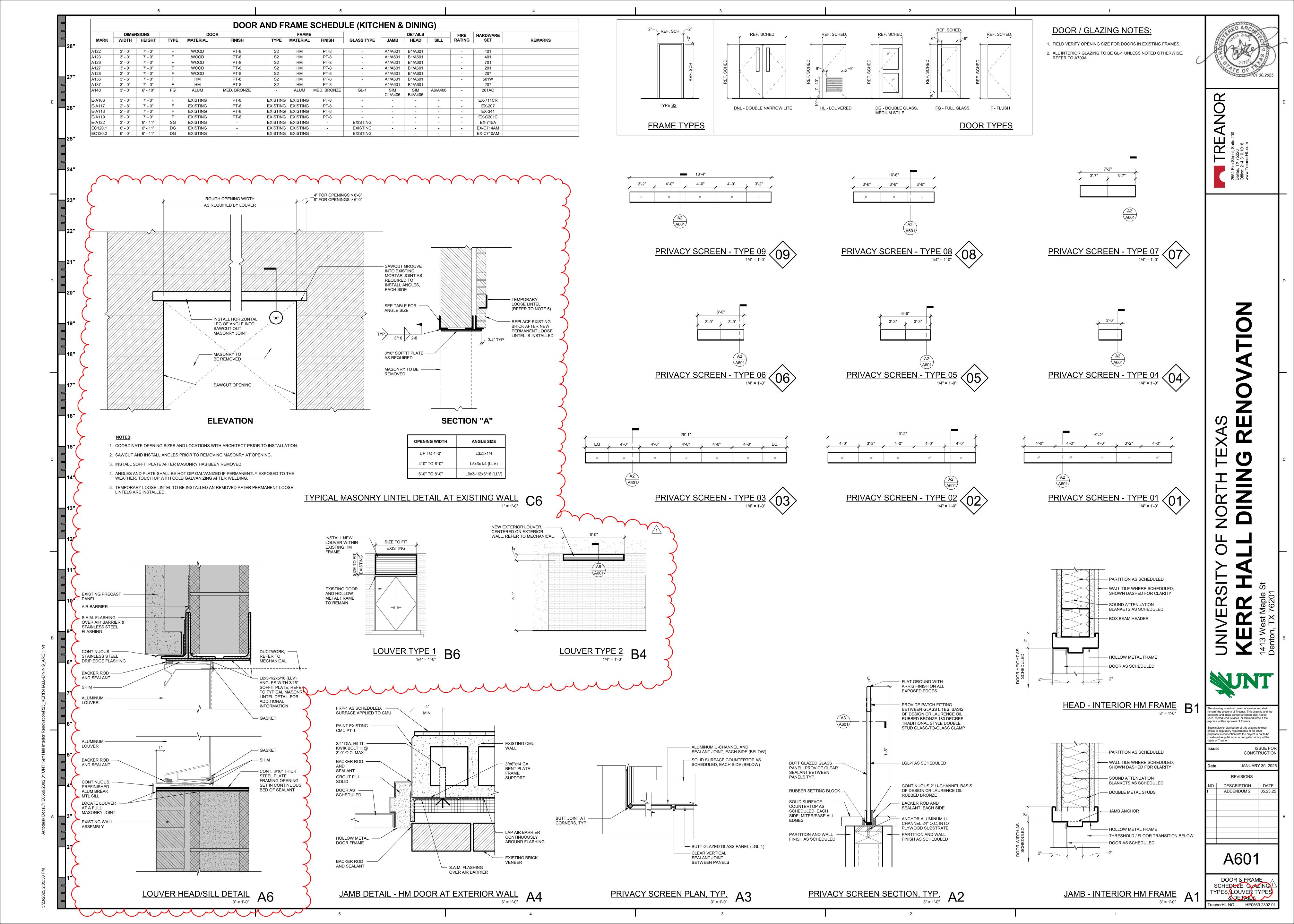
CONSTRUCTION JANUARY 30, 2025

REVISIONS NO DESCRIPTION DATE

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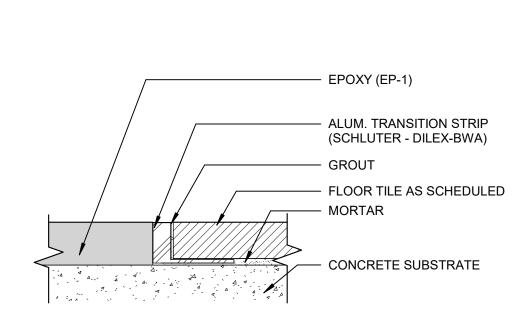
INTERIOR ELEVATIONS, SIGNAGE SCHEDULE, & DETAILS TreanorHL NO. HE0569.2302.01





FINISH LEGEND PRODUCT NO. COLOR MANUFACTURER / PATTERN **FINISH** DIMENSION REMARKS BASE & WALL PROTECTION CG-1 INPRO ARCHITECTURAL PRODUCTS - STAINLESS STEEL NO. 4 SATIN FINISH 1-1/2" WINGS x 4' LENGTH INSTALL TO 5'-0" AFF, TYPICAL. PROVIDE CORNER GUARDS AT ALL GYPSUM WALL STAINLESS STEEL SURFACE MOUNT CORNER GUARDS OUTSIDE CORNERS MB-1 INPRO ARCHITECTURAL PRODUCTS - STAINLESS STEEL SAS-CBT6-96 STAINLESS STEEL 304 96" W x 6" H SECTIONS BASE AT WD-1 DINING PONY WALLS AND HYDROPONICS ENCLOSURE. INCLUDE WALL BASE WITH TOE INTERIOR AND EXTERIOR FORMED CORNERS. 96" W x 6" H SECTIONS BASE AT FRONT OF DINING WALL. INCLUDE INTERIOR AND EXTERIOR FORMED INPRO ARCHITECTURAL PRODUCTS - STAINLESS STEEL SAS-CBS-96 STAINLESS STEEL 304 WALL BASE WITHOUT TOE CORNERS. RB-1 NORA - NORAPLAN TYP. RUBBER BASE, UNO. GYP WALLS AND COLUMNS. ART. 820 SMOOTH BLACK - 6201 GYPSUM CEILING (PAINTED) - DRYFALL MATCH PT-6, UNO TYP. GYP. BOARD CEILING CL-2 ARMSTRONG - CALLA TYP. ACOUSTIC CEILING TILE. USE WITH PRELUDE XL SUSPENSION SYSTEM. WHITE 24" W x 24" D CL-2M ARMSTRONG - KITCHEN ZONE WHITE 24" W x 24" D FOOD PREP AREAS - MEETS USDA/FSIS GUIDELINES. USE WITH PRELUDE XL15/16 SUSPENSION SYSTEM. COLOR 1: IVY, COLOR 2: CL-3 ARMSTRONG TECTUM DESIGNART LINES TEGULAR PATTERN AS SPECIFIED BY 24" W x 24" D ACCENT CEILING IN DINING ROOM. USE WITH PRELUDE XL SUSPENSION SYSTEM. INCLUDE AXOIM TRIM TO MATCH FELDSPAR COLOR. SANDSTONE ARCHITECT CL-4 RULON WOOD SLAT PANELS WITH BLACK BACKER FABRIC PG 4-12-32 SOLID WHITE OAK - STAIN 12" X 96" PANELS, 3/4" DECORATIVE SUSPENDED WOOD CEILING AT SERVING LINE. USE WITH PRELUDE THICK X 1-3/8" HIGH SLATS, XL15/16 SUSPENSION SYSTEM INCLUDE BLACK ACOUSTICAL INFILL PANEL. "CREME" WITH 4 SLATS PER PANEL FIBER REINFORCED PLASTIC FRP-1 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) CPT-1 WALK OFF CARPET - MOHAWK GROUP FIRST STEP II 989 OBSIDIAN 24" W x 24" D WALK OFF CARPET AT ENTRY VESTIBULE EP-1 STONHARD STONCLAD UT 1/4" NOMINAL EPOXY FLOORING -PEWTER MEDIUM TEXTURE KITCHEN FLOORING; PROVIDE INTEGRAL COVE BASE SC-1 SCOFIELD CURESEAL-W SEALED CONCRETE STORAGE, JANITOR CLOSET, DRY STORAGE AS INDICATED ON DRAWINGS TL-1 CROSSVILLE - NOTORIOUS NTR04.11224UPS SUSPENSE 24"L x 12"W UNPOLISHED DINING FLOOR FIELD TILE. USE GT-1 NTR05.11224UPS TL-2 CROSSVILLE - NOTORIOUS LEADING MAN UNPOLISHED 24"L x 12"W DINING FLOOR ACCENT TILE. USE GT-1 TL-3 DALTILE - VOLUME 1.0 MATTE RESTROOM FLOOR TILE, USE WITH 6X12 COVE BASE, GROUT CUSTOM BUILDING AMPLIFY BLACK 24"L x 12"W PRODUCTS #60 CHARCOAL PRODUCTS #60 CHARCOAL VCT-1 ARMSTRONG FLOORING STANDARD EXCELON IMPERIAL 51910 CLASSIC BLACK 12" L x 12" D x 1/8" FLOORING OF HYDROPONICS ENCLOSURE; REFER TOA406 FOR ADDITIONAL TEXTURE INFORMATION GF-1 3M DECORATIVE GLASS FILM AS SELECTED BY ARCHITECT AS SELECTED BY ARCHITECT PPG INDUSTRIES, INC. - STARPHIRE FULLY TEMPERED SAFETY GLAZING REQUIRED .24" THICK FLOAT GLASS LGL-1 INTERIOR LOW-IRON LAMINATED SAFETY VISION GLAZING ULTRAWHITE 3/8" LITE WITH PVB INTERLAYER WITH 1/4" LITE MTL-1 MOZ VERTICAL CORRUGATED METAL PANEL CUSTOM POWDERCOAT TO MATTE .040" THICK PANELS, 44-1/2" HYDROPONICS ENCLOSURE, TYPICAL (REFER TO A406). INSTALL WITH #8 X 1-1/4" RGB 5-144-51 X 120" PANELS W/ SEAM FINISH / TRIM SCREW EXPOSED FASTENERS. USE MATCHING TRIM PROFILES FOR LOCATIONS AS INDICATED. | CORNERS, BASE, AND END CONDITIONS. PL-1 WILSONART AS SELECTED BY ARCHTECT BASE CABINETRY AT MANAGER'S DESK AND BEVERAGE STATION FROM MANUFACTURER'S FULL COLOR RANGE WD-1 PAINTED POPLAR PRIMED WOOD FINISH, PAINTED AS 1/2" THICKNESS. SEE WOOD PANELING AT DINING PONY WALLS. MITERED CORNERS. SPECIFIED ELEVATIONS FOR DETAILS WD-2 POPLAR CUSTOM STAIN TO MATCH CUSTOM 1/2" THICKNESS. SEE WOOD PANELING AT POS, MITERED CORNERS. ARCHITECT'S SAMPLE ELEVATIONS FOR DETAILS PT-1 SHERWIN WILLIAMS - SUPER PAINT WHITE DUCK EGGSHELL FIELD PAINT PT-2 SHERWIN WILLIAMS - SUPER PAINT SW 7010 WHITE DUCK SEMI-GLOSS RESTROOM PAINT SW 7047 PT-3 SHERWIN WILLIAMS - SUPER PAINT PORPOISE SEMI-GLOSS ACCENT PAINT PT-4 SCUFFMASTER SCRUBTOUGH MAX CUSTOM TO MATCH SW0065 VOGUE GREEN SEMI-GLOSS ACCENT PAINT ON WOOD PANELING PT-5 SHERWIN WILLIAMS - SUPER PAINT SW 7031 MEGA GREIGE EGGSHELL ACCENT PAINT PT-6 SHERWIN WILLIAMS - PRO INDUSTRIAL WATERBORNE CEILING DRYFALL PAINT SW 7004 SNOWBOUND ACRYLIC DRYFALL PT-7 SHERWIN WILLIAMS - SUPER PAINT ACCENT PAINT ON WALLS PT-8 SHERWIN WILLIAMS - SUPER PAINT SW7069 SEMI-GLOSS IRON ORE DOORS AND DOOR FRAMES SOLID SURFACE SS-1 STRATUS QUARTZ - KENDALL CONCRETE SQ4004 WARM GRAY HONED DINING ROOM, MANAGER'S DESK, AND BEVERAGE COUNTERTOP MATERIAL. EASED EDGE. SLATE GRAY MATTE SS-2 CAMBRIA FIELDSTONE QUARTZ SERVERY COUNTERTOP FINISH. EASED EDGE. 3 CM THICKNESS TL-4 DALTILE - VOLUME 1.0 VL68 RESTROOM WALL TILE, GROUT GT-2 CHARCOAL TL-5 DALTILE - COLOR WHEEL LINEAR ARCTIC WHITE 0190 GLOSSY 12" L x 4" W SERVERY WALL TILE. GT-1 TL-6 DALTILE - INDOTERRA WALL TILE IN43 RIVERBED 9" L x 2" W ACCENT WALL TILE. 50/50 RANDOM MIX OF FLUTED AND FLAT TEXTURES. VERTICAL STACKED INSTALLATION. GT-2 TL-7 DALTILE - ARTCRAFTED AC25 GLOSSY 12" L x 3" W ACCENT WALL TILE. GT-2 TL-8 DALTILE - REMEDY RD21 HERBAL RD21 GLOSSY ACCENT WALL TILE. GT-1 10"L x 2"W TILE GROUT GT-1 CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS SHADOW INDUSTRIAL GRADE EPOXY GROUT GT-2 CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS DRIFTWOOD INDUSTRIAL GRADE EPOXY GROUT CHARCOAL GT-3 CUSTOM BUILDING PRODUCTS CEG-IG 100% SOLIDS INDUSTRIAL GRADE EPOXY GROUT TP-1 ASI GLOBAL PARTITIONS SOLID PLASTIC (HDPE) FLOOR REFER TO DRAWINGS TYP. RESTROOM TOILET PARITIONS CHARCOAL 9237 PEBBLE GRAINED ANCHORED/OVERHEAD BRACED TS-1 SCHLUTER JOLLY EDGE TRIM STAINLESS STEEL BRUSHED AS REQUIRED TYP. WALL TILE TRANSITION STRIP AT TOILET ROOM WALL TILE. TS-2 SCHLUTER RENO-RAMP REDUCER **AERPK 125 B65** BRUSHED STAINLESS STEEL AS REQUIRED TYP. FLOOR TILE TO SEALED CONCRETE TRANSITION STRIP BRUSHED TS-3 SCHLUTER RENO-TK REDUCER EBTK80 TYP. CONCRETE TO CARPET TRANSITION STRIP STAINLESS STEEL AS REQUIRED TS-4 SCHLUTER SCHIENE E100EB STAINLESS STEEL BRUSHED AS REQUIRED TYP. INSIDE CORNER, WALL TILE TS-6 FRY REGLET MILLWORK 1/4" POST OUTSIDE CORNER MWPOSC25100 ALUMINUM CLEAR ANODIZED AS REQUIRED TYP. OUTSIDE CORNER, AS NOTED ON DRAWINGS TS-7 FRY REGLET MILLWORK 1/4" POST TERMINATION MWPT25100 ALUMINUM CLEAR ANODIZED AS REQUIRED TYP. OUTSIDE CORNER, AS NOTED ON DRAWINGS TS-8 FRY REGLET MILLWORK REVEAL L-ANGLE MWRL75 ALUMINUM CLEAR ANODIZED AS REQUIRED TYP. INSIDE CORNER, AS NOTED ON DRAWINGS TS-9 FRY REGLET DRYWALL J-MOLDING JDM-625 ALUMINUM CLEAR ANODIZED AS REQUIRED TYP. INSIDE CORNER, AS NOTED ON DRAWINGS TS-10 SCHLUTER DILEX-AHK COVE SHAPED BASE AHK 1S 100AE ANODIZED ALUMINUM SATIN AS REQUIRED COVE PROFILE AT TILED DINING DIVIDER WALLS TS-11 SCHLUTER QUADEC EDGE PROFILE Q 100 AE ANODIZED ALUMINUM SATIN AS REQUIRED CORNER PROFILE AT TILED DINING DIVIDER WALLS, PAIR WITH DILEX PRODUCT TS-11 SCHLUTER DILEX-BWA PERIMETER JOINT PROFILE DARK ANTHRACITE FLOOR TRANSITION BETWEEN EP-1 AND TILE BWA 80DA AS REQUIRED

				RC	OM BY ROO	M FINISH SO	CHEDULE				
	ROOM	FLC	OORS		WA	LLS		CEILING	MILL	WORK	
ROOM#	ROOM NAME	FLOOR FINISH	BASE	NORTH	EAST	SOUTH	WEST	FINISH	MILLWORK	COUNTER	REMARKS
A117	STORAGE	SC-1	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN TO STRUCTURE	-	_	
A118	UNISEX RESTROOM	TL-3	TL-3	TL-4, PT-2	TL-4, PT-2	TL-4, PT-2	TL-4, PT-2	CL-1	-	-	
A119	JANITOR (EXISTING)	EXISTING TO REMAIN	EXISTING TO REMAIN	· · · · · · · · · · · · · · · · · · ·	N EXISTING TO REMAIN		N 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		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	TL-1	RB-1, MB-1	TL-6	TL-6	-	TL-6	CL-1, CL-2	TL-6, PL-1	SS-2	



- MORTAR BED - WALL TILE, REF. FINISH FLOOR PLANS. - GROUT - TS-10 (SCHLUTER - DILEX AHK) - FLOOR TILE, REF. FINISH FLOOR PLANS 4 4 — SUBSTRATE

CARPET (CPT#) ALUM. TRANSITION STRIP (SCHLUTER - RENO-TK) GROUT FLOOR TILE (CTF#) - MORTAR CONCRETE SUBSTRATE

TILE TO SEALED CONCRETE, TYP. A2

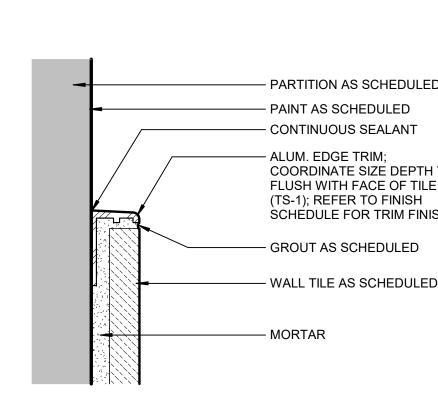
- SEALED CONCRETE

FLOOR TILE (CTF#)

CONCRETE SUBSTRATE

- ALUM. TRANSITION STRIP

(SCHLUTER - RENO RAMP)



TILE TERMINATION DETAIL

- PARTITION AS SCHEDULED COORDINATE SIZE DEPTH TO FLUSH WITH FACE OF TILE SCHÉDULE FOR TRIM FINISH — WALL TILE AS SCHEDULED

TRE,

Edwards+Mulhausen 2207 E Cesar Chavez Austin, TX 78702

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A700 INTERIOR FINISH LEGEND, SCHEDULE, & **DETAILS**

TreanorHL NO. HE0569.2302.0

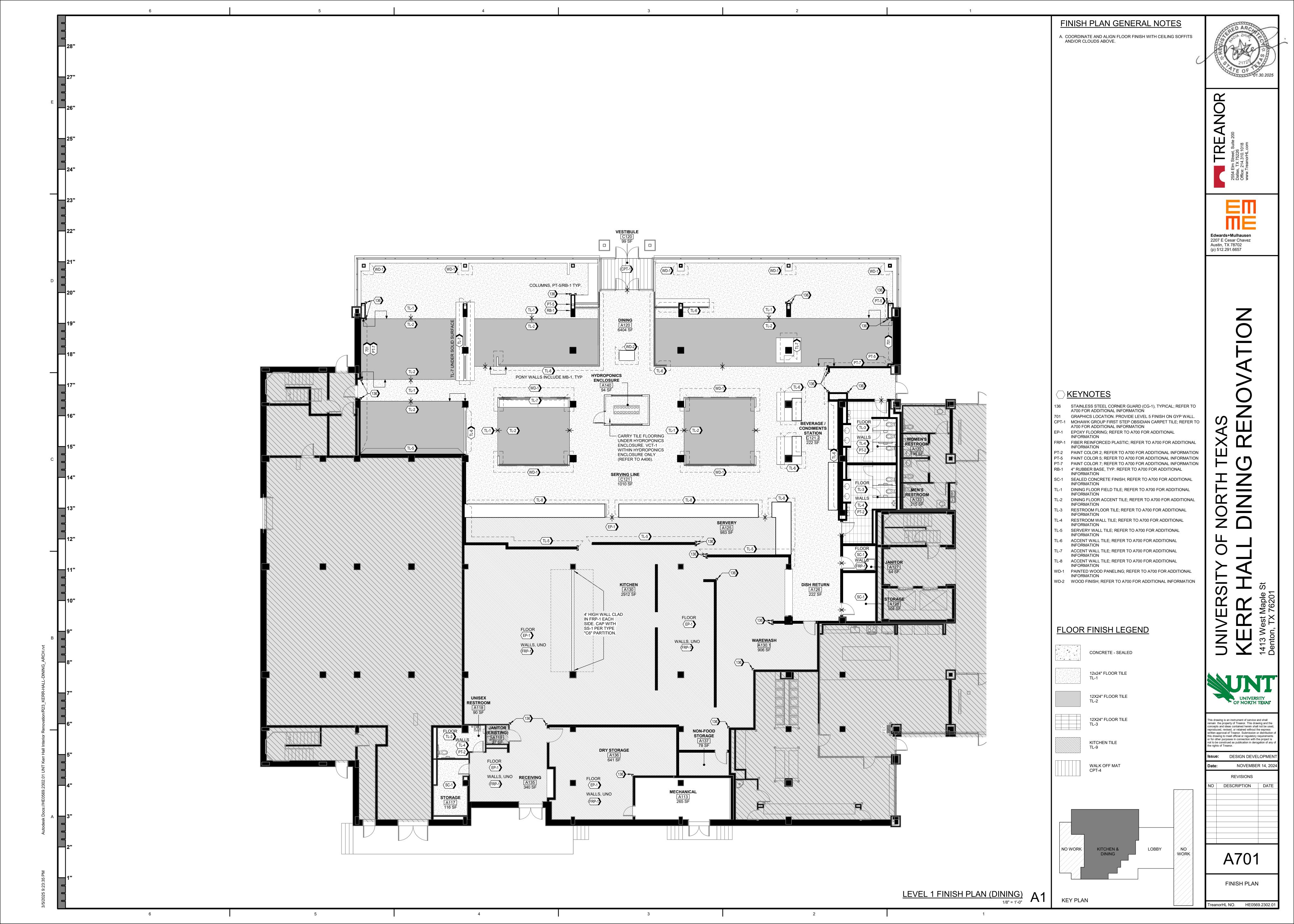
12" = 1'-0" A1

EPOXY TO TILE A5

WALL TILE / FLOOR TILE TRANSITION
12" = 1'-0"

A4

CARPET TO TILE A3





- EXISTING EQUIPMENT NOT SCHEDULED FOR RE-USE TO BE RELOCATED BY THE K.E.C. COORDINATE WITH OWNER FOR NEW LOCATION
- ALL UTILITIES NOT SCHEDULED FOR RE-USE TO BE CAPPED & COVERED BY REQUIRED DISCIPLINE.
- K.E.C. TO VERIFY ALL EXISTING UTILITY LOCATIONS & COORDINATE WITH ALL EQUIPMENT AS REQUIRED.

EXISTING EQUIPMENT NOTES NOT TO SCALE

ARCHITECT TO VERIFY/COORDINATE THE AESTHETIC OPTIONS BELOW (FOOD SERVICE COLOR, MATERIAL, OR SIGNAGE SELECTIONS) IF THESE ITEMS ARE FURNISHED IN THIS PROJECT

- COUNTERTOPS: STONE (STAINLESS STEEL IS FURNISHED **UNLESS OTHERWISE SPECIFIED)**
- TRAY SLIDES: CORIAN OR STONE (STAINLESS STEEL IS FURNISHED UNLESS OTHERWISE SPECIFIED).
- COUNTER FRONTS: CERAMIC TILE, 3 FORM, OR PLASTIC LAMINATE
- SNEEZE GUARDS: STONE INSETS.
- GENERAL COLOR, MATERIAL AND GRAPHIC SELECTIONS:
 - DISPLAY AIR SCREEN MERCHANDISERS COLOR SELECTION: POWDER COAT OR PLASTIC LAMINATE (S/S IS FURNISHED UNLESS OTHERWISE SPECIFIED).
- BAKERY DISPLAY CASES COLOR SELECTION: POWDER COAT OR PLASTIC LAMINATE (S/S IS FURNISHED UNLESS OTHERWISE SPECIFIED).
- PASS THRU OR REACH IN HOLDING CABINETS COLOR SELECTION: POWDER COAT (MFG.: TRUE) OR PLASTIC LAMINATE (MFG.: TRAULSEN) (S/S IS FURNISHED
 - HANGING HEAT LAMPS TRACK AND FIXTURE COLOR
 - HEATED MERCHANDISERS.
 - PORTABLE GUIDE RAILS STANCHION AND BELT COLOR SELECTION.
 - POPCORN MACHINE SIGNAGE SELECTION.

OTHERWISE SPECIFIED).

- BOTTLE COOLER SIGNAGE SELECTION
- GRAPHICS PACKAGE INFORMATION.
- HOT FOOD WELL COVERS.

ARCHITECT TO VERIFY/COORDINATE THE FINISHES BELOW:

- WALLS: CERAMIC TILE, FLAT FRP, OR MOLDED FRP (SMOOTH, IMPERVIOUS, AND EASILY CLEANABLE AS APPROVED BY LOCAL JURISDICTION).
- CEILINGS: REMOVABLE VINYL FACE TILE (SMOOTH IMPERVIOUS, AND EASILY CLEANABLE AS APPROVED BY LOCAL JURISDICTION).
- FLOORS: TILE, EPOXY, OR RUBBERIZED FLOORING SYSTEM (SMOOTH, IMPERVIOUS, EASILY CLEANABLE AND SLIP RESISTANT AS APPROVED BY LOCAL JURISDICTION) (COORDINATE FLOOR TILE TRANSITION AT SERVING LINES).
- FLOORS: WALK-IN ASSEMBLY EXTEND KITCHEN FLOOR FLUSH INTO WALK-IN ASSEMBLY WITH COVED BASE.
- FURR DOWNS ABOVE SERVING COUNTERS.

ARCHITECTURAL COORDINATION NOTES NOT TO SCALE

MECHANICAL COORDINATION NOTES

NOT TO SCALE

DIVISION 23 (MECHANICAL) RESPONSIBLE FOR BUT NOT LIMITED TO:

- **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.**
- ALL CONNECTIONS SHALL BE MADE FOLLOWING LOCAL CODES AND NATIONAL STANDARDS, EXCEPT WHERE PLANS AND SPECIFICATIONS EXCEED THOSE CODES AND STANDARDS.
- VERIFY ALL MECHANICAL REQUIREMENTS WITH ENGINEERING DRAWINGS.
- **EQUIPMENT REFRIGERATION SYSTEMS.**
- ROUGH-IN AND FINAL CONNECTION OF MECHANICAL SYSTEMS TO FOOD SERVICE EQUIPMENT, WALK-IN ASSEMBLIES, AND BETWEEN COMPONENTS (INCLUDING MATERIALS AND LABOR).
- TESTING AND BALANCING FOR ROOMS AND EXHAUST HOODS TO BE PERFORMED BY MECHANICAL CONTRACTOR. BALANCE REPORT FOR FOOD SERVICE EXHAUST HOODS TO BE FURNISHED TO FOODSERVICE DESIGN PROFESSIONALS (FDP) IMMEDIATELY UPON COMPLETION (SEND TO HOUSTON.SUBMITTAL@FDP.ORG FOR HOUSTON OFFICE AND DALLAS.SUBMITTAL@FDP.ORG FOR DALLAS OFFICE) AND MUST BE SUBMITTED WITH O&M MANUALS.

CONDUIT, DATA, AND INTERCONNECT THE PANIC ALARM INSIDE FREEZER TO THE BUILDING AUTOMATION

INTERIOR CONCRETE FLOOR CURES.

SYSTEM FOR NOTIFICATION TO DISTRICT PERSONNEL IN THE EVENT OF STAFF ENTRAPMENT. PIPING AND DRAINAGE SYSTEMS (SANITARY AND GREASE-LADEN). SYSTEMS MUST BE CLEANED AND FLUSHED BEFORE THE FINAL CONNECTION WITH FOOD

SERVICE EQUIPMENT - CRITICAL (DIV. 22).

CONTRACTOR MUST COORDINATE AND VERIFY ALL

2. WALK-IN ASSEMBLY DOORS MUST BE LEFT OPEN WHILE

INSTALL PROTECTIVE COVER ON WALK-IN ASSEMBLY

REFER TO GENERAL SPECS - DIVISION 27 TO FURNISH

WALL PANELS BEFORE INSTALLING CONCRETE FLOORS

DIMENSIONS WITH FOOD SERVICE EQUIPMENT SHOP

DRAWINGS AND MANUFACTURER'S DATA. DIMENSIONS

SHOWN ARE FOR DESIGN AND BIDDING PURPOSES ONLY

CRITICAL NOTES NOT TO SCALE

CRITICAL NOTES:

AND CURBS.

ELECTRICAL COORDINATION NOTES $^{\prime}$ NOT TO SCALE

TO

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.

DIVISION 22 (PLUMBING) RESPONSIBLE FOR BUT NOT LIMITED TO:

- SECTION 11 40 00 TO VERIFY UTILITY REQUIREMENTS OF ANY EXISTING EQUIPMENT.
- ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH LOCAL CODES AND NATIONAL STANDARDS, EXCEPT WHERE PLANS AND SPECIFICATIONS EXCEED THOSE CODES AND **STANDARDS**
- VERIFY ALL PLUMBING REQUIREMENTS WITH ENGINEERING DRAWINGS.
- 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, WITH PRE-RINSE FAUCETS, ETC.), HOSES, GAS DISCONNECTS, AND DRAINS FROM EQUIPMENT POINT OF CONNECTION TO BUILDING

PLUMBING SYSTEMS. ALL DRAIN LINES ARE FURNISHED AND

- INSTALLED BY DIV. 22. 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, EQUIPMENT AND ALL ACCESSORIES FOR EQUIPMENT SPECIFIED UNDER 11 40 00. DIVISION 22 IS RESPONSIBLE FOR INSTALLATION.
 - **FURNISHED** BY 11 40 00 UNLESS OTHERWISE SPECIFIED) TO FURNISHED BY 11 40 00).
 - 20. GAS QUICK DISCONNECT INSTALLATION (QUICK DISCONNECT

P-TRAPS AS REQUIRED (INCLUDING ALL DISPOSERS).

19. INTERCONNECT WATER THRU WATER FILTER (FILTER

DIVISION 26 (ELECTRICAL) IS RESPONSIBLE FOR BUT NOT LIMITED TO

DO NOT ROUGH IN FROM FDP DRAWINGS. REFER TO THE KITCHEN

EQUIPMENT CONTRACTOR'S DIMENSIONED SHOP DRAWINGS.

EQUIPMENT CONTRACTOR AND ADJUSTED AS REQUIRED BY

SECTION 11 40 00 TO VERIFY UTILITY REQUIREMENTS OF ANY

SPECIFICATIONS EXCEED THOSE CODES AND STANDARDS.

VERIFY ALL ELECTRICAL REQUIREMENTS WITH ENGINEERING

ROUGH-IN AND FINAL CONNECTION OF ELECTRICAL SYSTEMS TO

FOOD SERVICE EQUIPMENT, WALK-IN ASSEMBLIES, AND BETWEEN

COMPONENTS (INCLUDING MATERIALS AND LABOR). ACCESSORIES

FURNISHED LOOSE WITH FOOD SERVICE EQUIPMENT BY SECTION

EMPTY EMT CONDUIT WITH PULL-WIRE AND WIDE-SWEEP BENDS

EMPTY EMT CONDUIT WITH PULL-WIRE AND WIDE-SWEEP BENDS

FOR INTERCONNECT CABLES BETWEEN LAN AND POS TERMINALS

DIVISION 26 TO VERIFY WHERE THE CONDUIT IS TO RUN FOR POS

INDIRECT DRAIN LINE RUNS FROM EQUIPMENT TO NEAREST

IF ANY PLUMBING ACCESSORIES OR FITTINGS ARE FURNISHED

FITTINGS AS REQUIRED FOR A COMPLETE SYSTEM (IF REQUIRED

LADEN). SYSTEMS MUST BE CLEANED AND FLUSHED BEFORE

THE FINAL CONNECTION WITH FOOD SERVICE EQUIPMENT -

14. FLOOR SINKS (FURNISH AND INSTALL). FLANGE AND GRATES TO

15. FLOOR DRAINS (FURNISH AND INSTALL). FLANGE AND GRATES

FURNISHED BY 11 40 00. FLANGE AND LINERS TO BE FLUSH

GREASE TRAPS AS REQUIRED. VERIFY WITH LOCAL CODES TO

BYPASS OR PIPE THRU GREASE TRAP AND/OR INTERCEPTOR.

16. TRENCH DRAINS (FURNISH AND INSTALL). TRENCH LINERS

EQUIPMENT AND FURNISH FINAL CONNECTION.

10. GAS SUPPLY SYSTEMS WITH ALL COMPONENTS AND FITTINGS

11. WATER SUPPLY SYSTEMS WITH ALL COMPONENTS AND

FITTINGS AS REQUIRED FOR A COMPLETE SYSTEM.

12. COMPRESSED AIR SYSTEMS WITH ALL COMPONENTS AND

13. PIPING AND DRAINAGE SYSTEMS (SANITARY AND GREASE-

AS REQUIRED FOR A COMPLETE SYSTEM.

FOR THIS PROJECT).

BE FLUSH WITH FINISHED FLOOR.

FINISHED FLOOR.

TO BE FLUSH WITH FINISHED FLOOR.

CRITICAL.

LOOSE WITH EQUIPMENT BY 11 40 00, DIV. 22 IS TO ATTACH

DRAIN OR FLOOR SINK. LINES TO BE TYPE 'K' COPPER.

CHANGE-MAKERS, PRE-CHECK UNITS, PRINTERS, CPUS, ETC.

FOR REFRIGERANT PIPING TO REMOTE FOOD SERVICE EQUIPMENT

NATIONAL STANDARDS, EXCEPT WHERE PLANS AND

11 40 00 TO BE FIELD INSTALLED BY DIVISION 26.

SYSTEM (I.E., MANAGER'S OFFICE OR IDF ROOM).

ALL CONNECTIONS SHALL BE MADE FOLLOWING LOCAL CODES AND

DIMENSIONS INDICATED ARE TO BE VERIFIED BY KITCHEN

EQUIPMENT AND FIELD CONDITIONS.

EXISTING EQUIPMENT.

REFRIGERATION SYSTEMS.

DRAWINGS.

21. SAFETY RESTRAINT CABLE INSTALLATION (SAFETY RESTRAINT

FURNISHED LOOSE WITH EQUIPMENT BY 11 40 00, DIV.26 IS TO ATTACH

EMPTY EMT CONDUIT WITH PULL-WIRE AND WIDE-SWEEP BENDS FOR FIRE SUPPRESSION SYSTEMS. INTERCONNECT FIRE PROTECTION

WALK-IN LIGHT FIXTURE INSTALLATION (FURNISHED LOOSE BY SECTION

10. TABLE LIMIT SWITCH INSTALLATION (FURNISHED LOOSE BY SECTION 11

11. ELECTRICAL MATERIALS AND DEVICES (SHUNT-TRIP BREAKERS, SURGE

13. CHARGING STATIONS FOR FORKLIFTS, PALLET STACKERS, AND PALLET

JACKS (SIZE, FURNISH, LOCATE, AND INSTALL) (IF EQUIPMENT IS

INTERCONNECTION BETWEEN CONDENSATE FAN AND DISHMACHINE

INTERCONNECTION BETWEEN EXHAUST HOOD LIGHTS AND SWITCH (IF

WIRED TO JUNCTION BOX AT TOP OF WALK-IN ASSEMBLIES (IF EQUIPMENT

IS FURNISHED IN THIS PROJECT) FURNISHED BY SECTION 11 40 00. FINAL

DOOR HEATERS, LIGHTS, COILS, AND PRESSURE RELIEF PORTS PRE-

18. IF ANY ELECTRICAL ACCESSORIES, FITTINGS, AND CORD/PLUGS ARE

CONTROL PANEL (IF EQUIPMENT IS FURNISHED IN THIS PROJECT).

15. INTERCONNECTION BETWEEN EXHAUST HOOD FANS AND SWITCH (IF

EQUIPMENT IS FURNISHED IN THIS PROJECT).

EQUIPMENT IS FURNISHED IN THIS PROJECT).

TO EQUIPMENT AND FURNISH FINAL CONNECTION.

CABLE FURNISHED BY 11 40 00).

PROTECTORS, LIGHTING CONTROL DEVICES, CONDUIT, WIRE, ETC.).

(FURNISH, LOCATE, AND INSTALL - TO BE IN AN ACCESSIBLE LOCATION).

SYSTEM TO PANEL BOX SHUNT TRIPS AND BUILDING ALARM.

11 40 00) (IF WALK-IN IS FURNISHED IN THIS PROJECT).

40 00) (IF DISHMACHINE IS FURNISHED IN THIS PROJECT).

12. SWITCHES AND STAINLESS STEEL DISCONNECTS AS REQUIRED

FURNISHED IN THIS PROJECT).

CONNECTION BY DIV. 26.

- 22. SPECIFIED COUPLINGS AND PIPING TO ALL EQUIPMENT FURNISHED BY 11 40 00.
- 23. AIR COMPRESSORS (IF REQUIRED FOR THIS PROJECT) (SIZE, FURNISH, AND INSTALL, UNLESS OTHERWISE SPECIFIED).
- 24. WATER SOFTENERS (IF REQUIRED FOR THIS PROJECT) (SIZE, FURNISH, AND INSTALL, UNLESS OTHERWISE SPECIFIED).
- 25. PRESSURE BOILERS (IF REQUIRED FOR THIS PROJECT) (SIZE. FURNISH, AND INSTALL, UNLESS OTHERWISE SPECIFIED).
- 26. HAND SINKS (FURNISH (UNLESS OTHERWISE SPECIFIED) AND INSTALL). FURNISH HOT WATER TEMPERING VALVE IF REQUIRED. WATER TEMPERATURE TO BE AT LEAST 100 DEGREES AND FLOW FOR AT LEAST 20 SECONDS.
- 27. ICE BIN DRAIN INSULATION (IF ICE MACHINE IS FURNISHED IN THIS PROJECT) (FURNISH AND INSTALL).
- 28. UNIONS AT DISPOSER SOLENOID VALVES (IF DISPOSER IS FURNISHED IN THIS PROJECT) (FURNISH AND INSTALL).
- 29. BACK FLOW PREVENTION AS REQUIRED (FURNISH AND INSTALL -INCLUDING ALL DISPOSERS). BACK- SIPHONAGE SHALL BE INSTALLED AT ALL FIXTURES AND EQUIPMENT WHERE BACKFLOW AND/OR BACK-SIPHONAGE MAY OCCUR AND WHERE A MINIMUM AIR GAP CANNOT BE FURNISHED BETWEEN THE WATER TO THE FIXTURE OR EQUIPMENT AT ITS FLOOD/LEVEL RIM. VACUUM BREAKERS, WHEN FURNISHED WITH EQUIPMENT. SHALL OVERRIDE THE ABOVE, IF ACCEPTABLE WITH APPLICABLE CODES. DIVISION 22 RESPONSIBLE FOR VERIFYING REQUIREMENT WITH LOCAL CODES.
- 30. JANITOR SINK WITH FAUCET (FURNISH AND INSTALL).
- FREEZE PROOF HOSE BIBB AT EXTERIOR OF BUILDING BY RECEIVING DOOR (IF SHOWN ON FOOD SERVICE PLANS) (FURNISH AND INSTALL).

- 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

19. FURNISH WATERPROOF RECEPTACLES IN WET AREAS.

- RECEPTACLES ARE TO BE PRE-WIRED TO THE JUNCTION BOX OR
- LOAD CENTER FOR FINAL CONNECTION BY DIVISION 26.
- DO NOT INTERCONNECT MORE THAN THREE (3) CONVENIENCE
- DOORBELL AT RECEIVING DOOR (FURNISH AND INSTALL TO BE AUDIBLE THROUGHOUT KITCHEN, OFFICE, AND DRY STORAGE ROOM).
- ADEQUATE LIGHTING AT RECEIVING DOOR.
- 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 (IF WALK-IN IS FURNISHED IN THIS PROJECT). REFER TO GENERAL SPECIFICATIONS FOR ADDITIONAL DETAILS.
- DEDICATED CIRCUIT FOR HEATED DRAIN LINE CONNECTION IN WALK-IN FREEZER AT EACH COIL (IF WALK-IN IS FURNISHED IN THIS

<u>NOTE:</u> 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).

- COUNTERS TO BE RUN TO A CONNECTION POINT BELOW COUNTER BODY BY SECTION 11 40 00. FINAL CONNECTION BY DIVISION 22.
- EXHAUST HOOD CONDENSATE DRAIN CONNECTIONS (IF EXHAUST HOOD IS FURNISHED IN THIS PROJECT) (FURNISH AND INSTALL).
- 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).
- 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

NOTE: REFER TO ELECTRICAL/MECHANICAL DRAWINGS FOR LOCATION OF AN INTERLOCK AND START/STOP CONTROLS TO BE LOCATED WITHIN FOOD SERVICE AREA BY DIVISION 26.

REQUIREMENTS OF EXHAUST FANS AND MAKE-UP AIR HANDLERS AND

DO NOT ROUGH-IN FROM FDP DRAWINGS. REFER TO THE KITCHEN

- SECTION 11 40 00 TO VERIFY UTILITY REQUIREMENTS OF ANY EXISTING EQUIPMENT.
- EMPTY EMT CONDUIT WITH PULL-WIRE AND WIDE-SWEEP BENDS FOR REFRIGERANT PIPING TO REMOTE FOOD SERVICE

EXHAUST HOODS, CONDENSATE HOODS, FIRE SUPPRESSION SYSTEMS, CONNECTIONS AND CONTROLS (FURNISH AND INSTALL – UNLESS OTHERWISE SPECIFIED). FURNISH TEMPERED AIR AT ALL SUPPLY DUCTS.

PLUMBING COORDINATION NOTES

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 HOOD CONNECTIONS (FURNISH AND INSTALL).
- VFD SYSTEM AND CONTROLLERS, WHEN REQUIRED BY CODE (FURNISH AND INSTALL).

11. COORDINATE SUPPLY AND RETURN DUCTS ABOVE SERVING

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

COUNTERS OR OPEN-AIR REFRIGERATED MERCHANDISERS. NO

- DIRECTLY ON COMPRESSORS. 13. MECHANICAL CONTRACTOR TO LOCATE TEMPERATURE MONITORS
- 14. CIRCULATING AIR ABOVE WALK-IN ASSEMBLIES (FURNISH AND INSTALL).

WITHIN RETURN DUCTS.

STORAGE ASSEMBLIES (FURNISH AND INSTALL). 16. WATER CHILLERS AS REQUIRED (IF EQUIPMENT IS FURNISHED IN

15. CIRCULATING AIR ABOVE AND IN AIR GAPS AT WAREHOUSE COLD

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

GENERAL CONTRACTOR RESPONSIBLE FOR BUT NOT LIMITED TO:

- ANY WALL PENETRATION REQUIRED FOR FOOD SERVICE EQUIPMENT UTILITIES ESCUTCHEON PLATES OR S/S SLEEVES TO BE FURNISHED AND INSTALLED AS NEEDED.
- BULK FREEZER VENTILATION PIPE (IF BULK FREEZER IS FURNISHED IN THIS PROJECT) (FURNISH AND INSTALL, UNLESS OTHERWISE SPECIFIED).
- CORE DRILLING FOR GUIDE RAILS (IF GUIDE RAILS ARE FURNISHED IN THIS PROJECT)
- THIS PROJECT AND LOCATED ON ROOF). INTERIOR BOLLARDS (IF REQUIRED FOR THIS PROJECT) - TO BE EPOXY PAINTED PER LOCAL

REFRIGERATION ROOF CURBS / ROOF JACK (IF REFRIGERATION SYSTEM IS FURNISHED IN

- CODES (FURNISH AND INSTALL). FURNISH AND INSTALL 3/4" PLYWOOD BLOCKING IN THE WALL FOR MOUNTING EQUIPMENT
- FURNISHED BY SECTION 11 40 00 AS REQUIRED. WALK-IN DEPRESSIONS (TO BE DEAD LEVEL) AND SAND LEVELING BED (IF WALK-IN IS 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 SPECIFIED).
- STRUCTURAL BRACING FOR MENU SYSTEM VIDEO MONITORS IF REQUIRED. 11. INTERIOR/EXTERIOR REFRIGERATION PENETRATIONS AND SLEEVES AT BUILDING
- PENETRATIONS. 12. DOORSCOPE VIEWER (PEEPHOLE) WITH WIDE VIEWING ANGLE AT RECEIVING DOOR.

13. CANOPY AT RECEIVING DOOR. COORDINATE HEIGHT WITH THE HEIGHT OF RECEIVING

- DOOR (8') AND THE MOUNTING HEIGHT OF AIR SCREEN ABOVE THE DOOR. 14. SOAP AND TOWEL DISPENSER FURNISHED BY OWNER. G.C. RESPONSIBLE FOR INSTALLATION.
- WASHER AND DRYER (FURNISH AND INSTALL, UNLESS OTHERWISE SPECIFIED).
- 16. DWARF WALL AT EXPOSED FRONT/ENDS OF CAFETERIA SERVING COUNTERS WITH FINISH AS SELECTED BY ARCHITECT (IF REQUIRED IN THIS PROJECT).

GENERAL CONTRACTOR COORDINATION NOTES NOT TO SCALE

HEALTH DEPARTMENT REQUIREMENTS (VERIFY WITH LOCAL JURISDICTIONS):

- FLOORS: VERIFY WITH DIVISION 9. FLOORS TO BE SMOOTH, IMPERVIOUS, EASILY CLEANABLE AND SLIP
- WALLS: VERIFY WITH ARCHITECTURAL DOCUMENTS. WALLS TO BE SMOOTH, IMPERVIOUS, AND EASILY CLEANABLE.
- MUST HAVE A VESTIBULE AND NOT OPEN TO KITCHEN / PREP AREAS. TOILETS TO BE WELL VENTILATED. LAVATORIES: WALL HUNG LAVATORIES LOCATED WITHIN ALL FUNCTIONAL WORKING AREAS.
- STOREROOMS: AMPLE DAILY STORAGE FURNISHED IN ENCLOSED STORE ROOMS. STORE ROOMS TO BE VENTILATED AND MAINTAIN PROPER TEMPERATURE.

MECHANICAL CLEANING/SANITIZING OF TABLEWARE: ACCOMPLISHED BY WAREWASH MACHINE.

- WATER HEATER: LOCATED IN THE MECHANICAL ROOM ADJACENT TO KITCHEN. TO BE SIZED TO FURNISH
- 10. GREASE TRAP: LOCATED AT EXTERIOR OF BUILDING. REFER TO ENGINEER'S DRAWINGS.
- 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.
- TO THE SERVERY WAREWASH AREA.
- 13. EXHAUST HOODS: EXHAUST HOODS FURNISHED OVER COOKING EQUIPMENT WITH LIQUID CHEMICAL ANSUL FIRE EXTINGUISHING SYSTEM.
- FITTED WITH CLEAR LEXAN DIFFUSERS.

15. GARBAGE AND REFUSE: CENTRAL TRASH COLLECTION FURNISHED FOR BUILDING LOCATED NEAR RECEIVING AREA ON SMOOTH CONCRETE SURFACE.

16. POISONOUS AND TOXIC MATERIAL STORAGE: LOCATED IN RESPECTIVE JANITOR CLOSETS WITH LOCKING

HEALTH DEPARTMENT COORDINATION NOTES



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QF1

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REVISIONS

DESCRIPTION DATE

CONSTRUCTION

APRIL 08, 2025

DURING FIRE MODE.

- 22. ALL ELECTRICAL LIGHTING, POWER, AND DISTRIBUTION SYSTEMS.
- OUTLETS ON ONE (1) BREAKER. OTHER THAN CONVENIENCE OUTLETS, ALL ELECTRICAL
- CONNECTIONS SHOWN ON FOOD SERVICE PLANS ARE DEDICATED

- 33. ALL PIPING WITHIN COUNTER BODY OR UNDER FABRICATED
- 35. INTERCONNECTION OF 1/2" CW TO PRE-RINSE AND DISPOSERS
- 38. WATER TREATMENT FOR ICE BUILDERS (NON-CHLORINATED

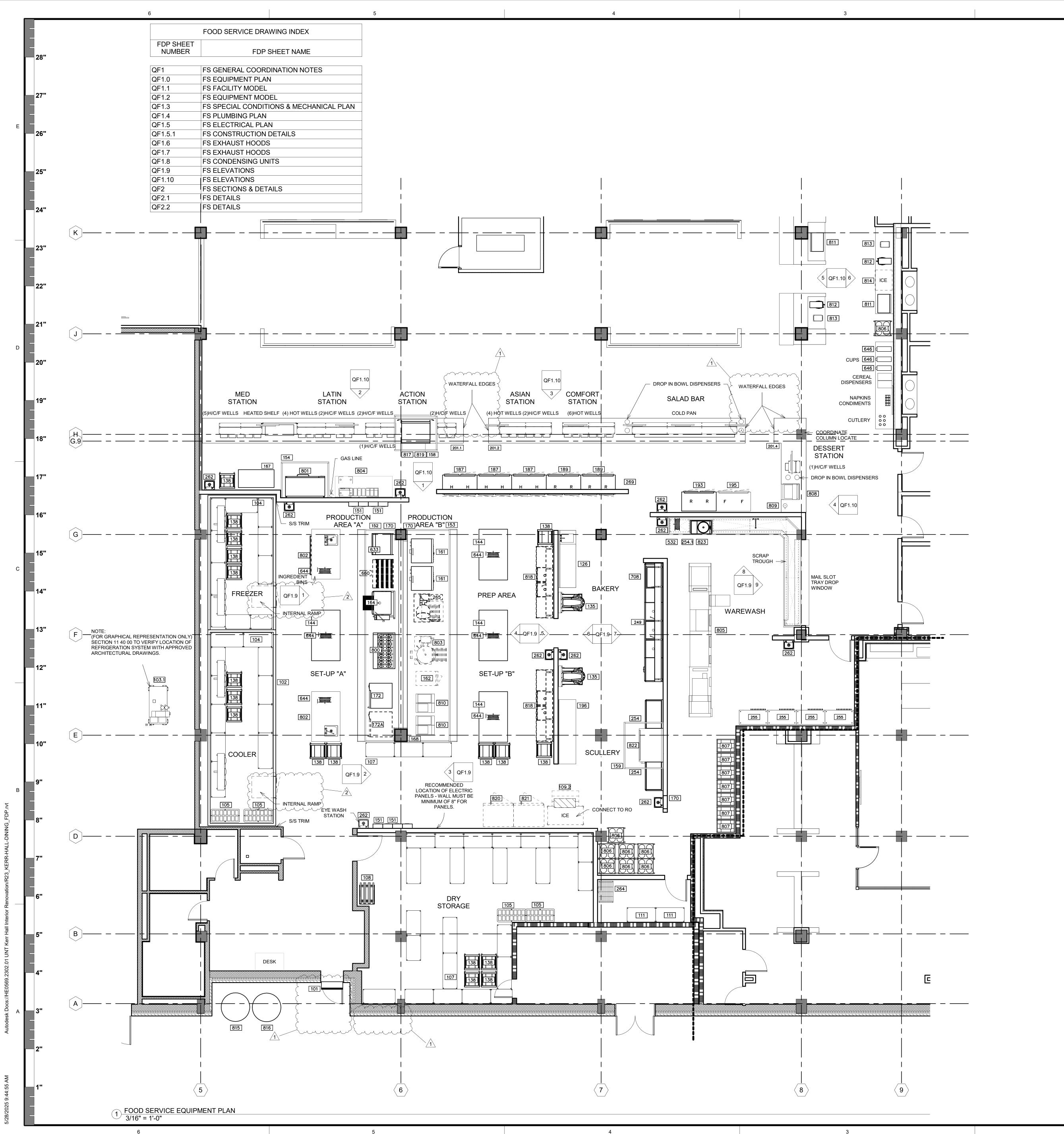
REQUIRED FOR SUPPORT EQUIPMENT FURNISHED BY DIVISION 22. FOR ADDITIONAL WATER AND DRAIN REQUIREMENTS REFER TO MECHANICAL DRAWINGS.

- CEILING: LAY-IN TILES. CEILING TILES TO BE SMOOTH, IMPERVIOUS, AND EASILY CLEANABLE. EMPLOYEE TOILET: TO BE LOCATED OFF MAIN CORRIDOR AND ADJACENT TO MAIN KITCHEN. RESTROOM
- UTENSIL CLEANING/SANITIZING: ACCOMPLISHED IN UTENSIL WASH AREA WITH (3) 2'-0" x 2'-2" x 15" MINIMUM DEEP SINKS AND WAREWASH MACHINE.
- AMPLE WATER TO MAINTAIN PROPER WATER TEMPERATURE THROUGHOUT HOURS OF OPERATION.
- 12. MOP SINK: LOCATED IN JANITOR CLOSET OFF MAIN KITCHEN CORRIDOR, AND LOCATED IN CLOSE PROXIMITY
- 14. LIGHTING AND PROTECTIVE SHIELDING: RECESSED CEILING-MOUNTED FLUORESCENT LIGHT FIXTURES
- $^\prime$ NOT TO SCALE

COORDINATION NOTES

TreanorHL NO. HE0569.2302.0

FS GENERAL



FOOD SERVICE EQUIPMENT SCHEDULE - KITCHEN

REFER TO SHEET QF	1 FOR GENERAL CONTRACTOR & HEALTH DEPARTME	NT COORDINATION NO
FDP ITEM FDP QTY	FDP DESCRIPTION	FDP REMARKS

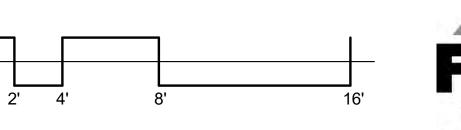
		T DI DEGORII HOR	1 DI INLIVITATO
101	1	AIR SCREEN	
102	1	COLD STORAGE ASSEMBLY	
103.1	1	COLD STORAGE REFRIGERATION SYSTEM	VERIFY LOCATION
104	2	COLD STORAGE SHELVING	OWNER FURNISHED
105	4	DUNNAGE RACK	OWNER FURNISHED
107	2	DRY STORAGE SHELVING	OWNER FURNISHED
108	1	CAN RACK	OWNER FURNISHED
109.2	1	ICE MACHINE	EXISTING / RELOCATE
111	2	CHEMICAL SHELF	OWNER FURNISHED
126	1	BACK COUNTER	
			EVICTING / DEL OCATE
135	2	60 QUART MIXER	EXISTING / RELOCATE
138	18	PAN RACK	OWNER FURNISHED
144	4	WORKTABLE W/DBL.BAR UT.RACK	
151	4	FIRE PROTECTION SYSTEM	
152	1	EXHAUST HOOD	
153	1	EXHAUST HOOD	
	1		
154	1	EXHAUST HOOD	
158	1	ISLAND EXHAUST HOOD	
159	1	CONDENSATE HOOD	
161	2	CONVECTION OVEN	
	+	DBL CONVECTION STEAMER - GAS	EXISTING / DEL OCATE
162	1		EXISTING / RELOCATE
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	COMBI OVEN	
172A	1	COMBI OVEN	EXISTING / RELOCATE
187	3	PASS-THRU HEATED CABINET- 2DR	
189	2	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	1	DESSERT COUNTER	
	-		
249	1	THREE COMPARTMENT SINK W/DISPOSER	
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	1	40 GAL. TILT KETTLE	EXISTING / RELOCATE
269	1	S/S CORNER GUARDS	
532	1	HOSE REEL	
633	1	GRIDDLE W/ STAND	
644	•	ELECTRIC CORD REEL	PROVIDED BY DIV. 26
	6		
646	3	CUP DISPENSER	OWNER FURNISHED
660	1	CHARBROILER	EXISTING / RELOCATE
708	1	SCRAP COLLECTOR	
800	1	10 BURNER RANGE	
801	1 1	10 2 0 1 0 1 2 1 1 1 2 0 1	
UU I		DECK OVEN	
000	1	MODICTARIE IN CINIC	
802	2	WORKTABLE W-SINK	
802 803	2	WORKTABLE W-SINK KETTLE 60 GALLON	EXISTING / RELOCATE
	+	-	EXISTING / RELOCATE
803	1	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE	EXISTING / RELOCATE
803 804 805	1 1 1	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE FLIGHT TYPE DISHMACHINE	
803 804 805 806	1 1 1 8	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE FLIGHT TYPE DISHMACHINE POKER CHIP DOLLY	OWNER FURNISHED
803 804 805 806 807	1 1 1 8 7	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE FLIGHT TYPE DISHMACHINE POKER CHIP DOLLY GLASS RACK DOLLY	
803 804 805 806	1 1 1 8	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE FLIGHT TYPE DISHMACHINE POKER CHIP DOLLY GLASS RACK DOLLY ICE CREAM DIPPING CABINET	OWNER FURNISHED
803 804 805 806 807	1 1 1 8 7	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE FLIGHT TYPE DISHMACHINE POKER CHIP DOLLY GLASS RACK DOLLY	OWNER FURNISHED
803 804 805 806 807 808	1 1 1 8 7 1	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE FLIGHT TYPE DISHMACHINE POKER CHIP DOLLY GLASS RACK DOLLY ICE CREAM DIPPING CABINET	OWNER FURNISHED
803 804 805 806 807 808 809	1 1 1 8 7 1 1 2	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE FLIGHT TYPE DISHMACHINE POKER CHIP DOLLY GLASS RACK DOLLY ICE CREAM DIPPING CABINET DIPPER WELL FRYER BATTERY	OWNER FURNISHED OWNER FURNISHED
803 804 805 806 807 808 809 810	1 1 8 7 1 1 2 2	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE FLIGHT TYPE DISHMACHINE POKER CHIP DOLLY GLASS RACK DOLLY ICE CREAM DIPPING CABINET DIPPER WELL FRYER BATTERY BEVERAGE DISPENSER	OWNER FURNISHED OWNER FURNISHED PURVEYOR PROVIDED
803 804 805 806 807 808 809 810 811	1 1 1 8 7 1 1 2 2 2	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE FLIGHT TYPE DISHMACHINE POKER CHIP DOLLY GLASS RACK DOLLY ICE CREAM DIPPING CABINET DIPPER WELL FRYER BATTERY BEVERAGE DISPENSER TEA & COFFEE BREWER	OWNER FURNISHED OWNER FURNISHED PURVEYOR PROVIDED PURVEYOR PROVIDED
803 804 805 806 807 808 809 810 811	1 1 8 7 1 1 2 2	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE FLIGHT TYPE DISHMACHINE POKER CHIP DOLLY GLASS RACK DOLLY ICE CREAM DIPPING CABINET DIPPER WELL FRYER BATTERY BEVERAGE DISPENSER	OWNER FURNISHED OWNER FURNISHED PURVEYOR PROVIDED
803 804 805 806 807 808 809	1 1 1 8 7 1 1 2 2 2	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE FLIGHT TYPE DISHMACHINE POKER CHIP DOLLY GLASS RACK DOLLY ICE CREAM DIPPING CABINET DIPPER WELL FRYER BATTERY BEVERAGE DISPENSER TEA & COFFEE BREWER	OWNER FURNISHED OWNER FURNISHED PURVEYOR PROVIDED PURVEYOR PROVIDED
803 804 805 806 807 808 809 810 811 812	1 1 1 8 7 1 1 2 2 2 2	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE FLIGHT TYPE DISHMACHINE POKER CHIP DOLLY GLASS RACK DOLLY ICE CREAM DIPPING CABINET DIPPER WELL FRYER BATTERY BEVERAGE DISPENSER TEA & COFFEE BREWER JUICE DISPENSER	OWNER FURNISHED OWNER FURNISHED PURVEYOR PROVIDED PURVEYOR PROVIDED PURVEYOR PROVIDED
803 804 805 806 807 808 809 810 811 812 813	1 1 1 8 7 1 1 2 2 2 2 2	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE FLIGHT TYPE DISHMACHINE POKER CHIP DOLLY GLASS RACK DOLLY ICE CREAM DIPPING CABINET DIPPER WELL FRYER BATTERY BEVERAGE DISPENSER TEA & COFFEE BREWER JUICE DISPENSER ICE MACHINE	OWNER FURNISHED OWNER FURNISHED PURVEYOR PROVIDED PURVEYOR PROVIDED PURVEYOR PROVIDED EXISTING / RELOCATE PURVEYOR PROVIDED / PURVEYOR INSTALLED PURVEYOR PROVIDED /
803 804 805 806 807 808 809 810 811 812 813 814	1 1 8 7 1 1 2 2 2 2 2 1 1	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE FLIGHT TYPE DISHMACHINE POKER CHIP DOLLY GLASS RACK DOLLY ICE CREAM DIPPING CABINET DIPPER WELL FRYER BATTERY BEVERAGE DISPENSER TEA & COFFEE BREWER JUICE DISPENSER ICE MACHINE CO2 BULK STORAGE TANK OIL RECYCLE TANK	OWNER FURNISHED OWNER FURNISHED PURVEYOR PROVIDED PURVEYOR PROVIDED PURVEYOR PROVIDED EXISTING / RELOCATE PURVEYOR PROVIDED / PURVEYOR INSTALLED
803 804 805 806 807 808 809 810 811 812 813 814 815	1 1 1 8 7 1 1 2 2 2 2 2 1 1	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE FLIGHT TYPE DISHMACHINE POKER CHIP DOLLY GLASS RACK DOLLY ICE CREAM DIPPING CABINET DIPPER WELL FRYER BATTERY BEVERAGE DISPENSER TEA & COFFEE BREWER JUICE DISPENSER ICE MACHINE CO2 BULK STORAGE TANK REFRIGERATED CHEF'S BASE	OWNER FURNISHED OWNER FURNISHED PURVEYOR PROVIDED PURVEYOR PROVIDED PURVEYOR PROVIDED EXISTING / RELOCATE PURVEYOR PROVIDED / PURVEYOR INSTALLED PURVEYOR INSTALLED
803 804 805 806 807 808 809 810 811 812 813 814 815	1 1 8 7 1 1 2 2 2 2 2 1 1	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE FLIGHT TYPE DISHMACHINE POKER CHIP DOLLY GLASS RACK DOLLY ICE CREAM DIPPING CABINET DIPPER WELL FRYER BATTERY BEVERAGE DISPENSER TEA & COFFEE BREWER JUICE DISPENSER ICE MACHINE CO2 BULK STORAGE TANK OIL RECYCLE TANK	OWNER FURNISHED OWNER FURNISHED PURVEYOR PROVIDED PURVEYOR PROVIDED PURVEYOR PROVIDED EXISTING / RELOCATE PURVEYOR PROVIDED / PURVEYOR INSTALLED PURVEYOR PROVIDED /
803 804 805 806 807 808 809 810 811 812 813 814 815	1 1 1 8 7 1 1 2 2 2 2 2 1 1	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE FLIGHT TYPE DISHMACHINE POKER CHIP DOLLY GLASS RACK DOLLY ICE CREAM DIPPING CABINET DIPPER WELL FRYER BATTERY BEVERAGE DISPENSER TEA & COFFEE BREWER JUICE DISPENSER ICE MACHINE CO2 BULK STORAGE TANK REFRIGERATED CHEF'S BASE	OWNER FURNISHED OWNER FURNISHED PURVEYOR PROVIDED PURVEYOR PROVIDED PURVEYOR PROVIDED EXISTING / RELOCATE PURVEYOR PROVIDED / PURVEYOR INSTALLED PURVEYOR INSTALLED
803 804 805 806 807 808 809 810 811 812 813 814 815 816	1 1 1 8 7 1 1 2 2 2 2 2 1 1 1	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE FLIGHT TYPE DISHMACHINE POKER CHIP DOLLY GLASS RACK DOLLY ICE CREAM DIPPING CABINET DIPPER WELL FRYER BATTERY BEVERAGE DISPENSER TEA & COFFEE BREWER JUICE DISPENSER ICE MACHINE CO2 BULK STORAGE TANK OIL RECYCLE TANK REFRIGERATED CHEF'S BASE POWER SOAK SINK COUNTER TOP GRIDDLE	OWNER FURNISHED OWNER FURNISHED PURVEYOR PROVIDED PURVEYOR PROVIDED PURVEYOR PROVIDED EXISTING / RELOCATE PURVEYOR PROVIDED / PURVEYOR INSTALLED PURVEYOR INSTALLED EXISTING / RELOCATE
803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820	1 1 1 8 7 1 1 2 2 2 2 2 1 1 1	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE FLIGHT TYPE DISHMACHINE POKER CHIP DOLLY GLASS RACK DOLLY ICE CREAM DIPPING CABINET DIPPER WELL FRYER BATTERY BEVERAGE DISPENSER TEA & COFFEE BREWER JUICE DISPENSER ICE MACHINE CO2 BULK STORAGE TANK OIL RECYCLE TANK REFRIGERATED CHEF'S BASE POWER SOAK SINK COUNTER TOP GRIDDLE BLAST CHILLER	OWNER FURNISHED OWNER FURNISHED PURVEYOR PROVIDED PURVEYOR PROVIDED PURVEYOR PROVIDED EXISTING / RELOCATE PURVEYOR PROVIDED / PURVEYOR INSTALLED PURVEYOR INSTALLED EXISTING / RELOCATE EXISTING / RELOCATE
803 804 805 806 807 808 809 810 811 812 813 814 815 816	1 1 1 8 7 1 1 2 2 2 2 2 1 1 1	KETTLE 60 GALLON MARBLE TOP PIZZA PREP TABLE FLIGHT TYPE DISHMACHINE POKER CHIP DOLLY GLASS RACK DOLLY ICE CREAM DIPPING CABINET DIPPER WELL FRYER BATTERY BEVERAGE DISPENSER TEA & COFFEE BREWER JUICE DISPENSER ICE MACHINE CO2 BULK STORAGE TANK OIL RECYCLE TANK REFRIGERATED CHEF'S BASE POWER SOAK SINK COUNTER TOP GRIDDLE	OWNER FURNISHED OWNER FURNISHED PURVEYOR PROVIDED PURVEYOR PROVIDED PURVEYOR PROVIDED EXISTING / RELOCATE PURVEYOR PROVIDED / PURVEYOR INSTALLED PURVEYOR INSTALLED EXISTING / RELOCATE

ADDENDUM 2 REVISIONS ON THIS SHEET

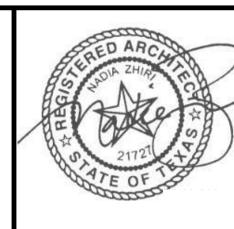
- ADDED WATERFALL EDGES TO SERVING COUNTERS
- REMOVED CANOPY AT RECEIVING DOOR
- REMOVED HOSE BIBB AT LOADING DOCK
- REVISED SIZE OF AIR SCREEN AT RECEIVING DOOR

ADDENDUM 3 REVISIONS ON THIS SHEET

REVISED COLD STORAGE ASSEMBLY TO INCLUDE IUNTERNAL RAMPS.







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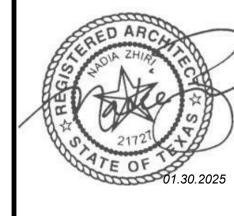
DESCRIPTION ADDENDUM 2 05.23.2 ADDENDUM 3 05.28.25

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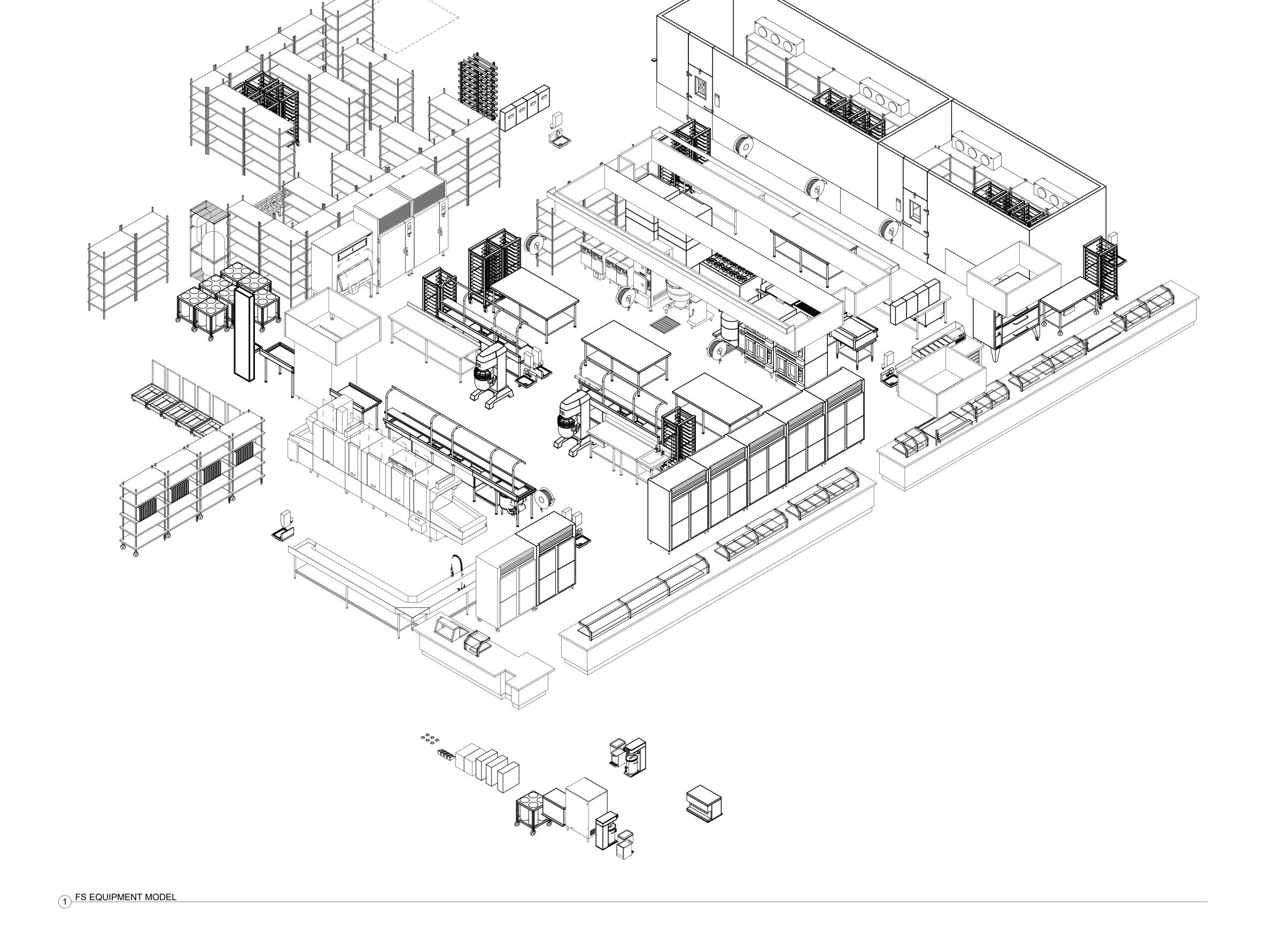
FS EQUIPMENT PLAN

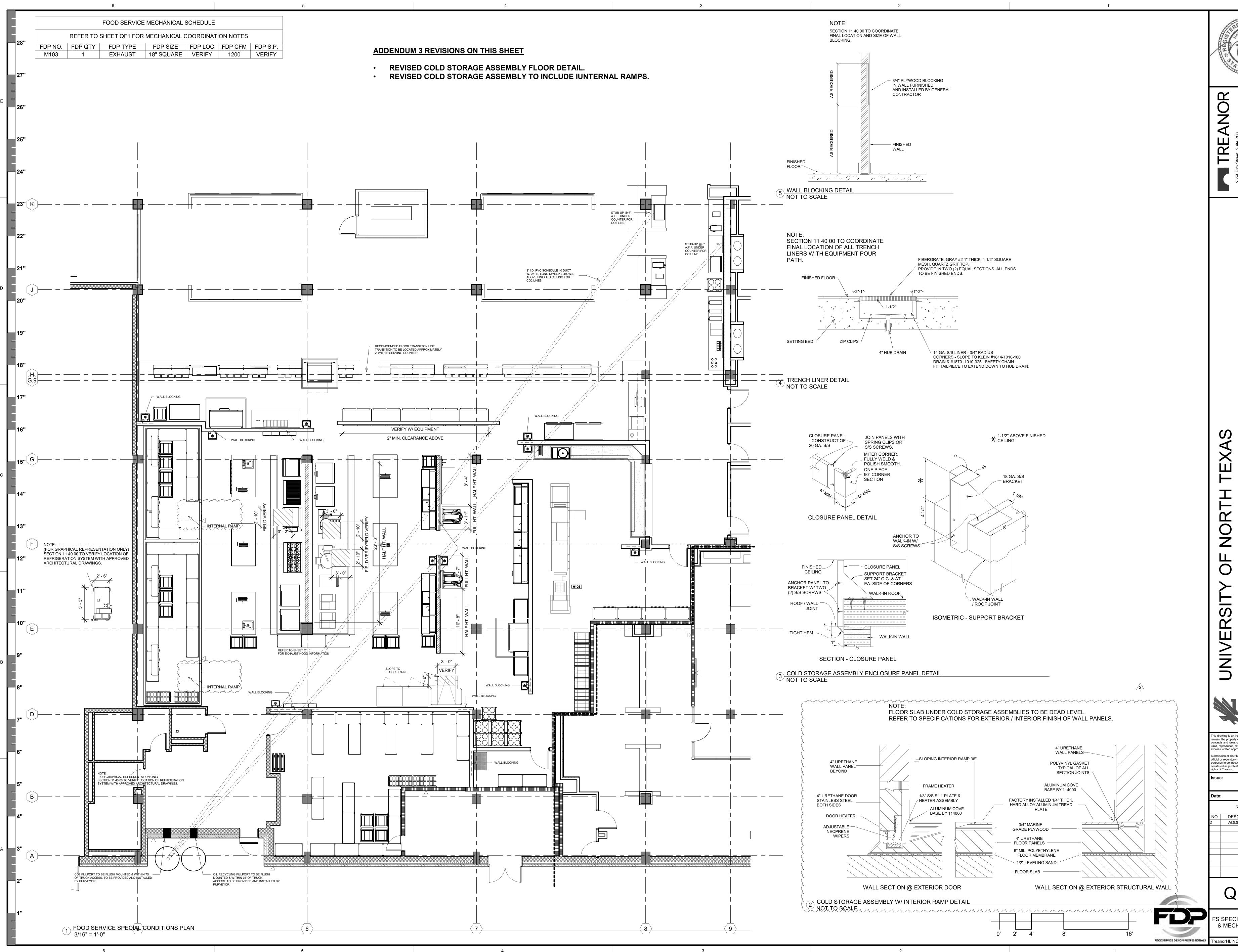


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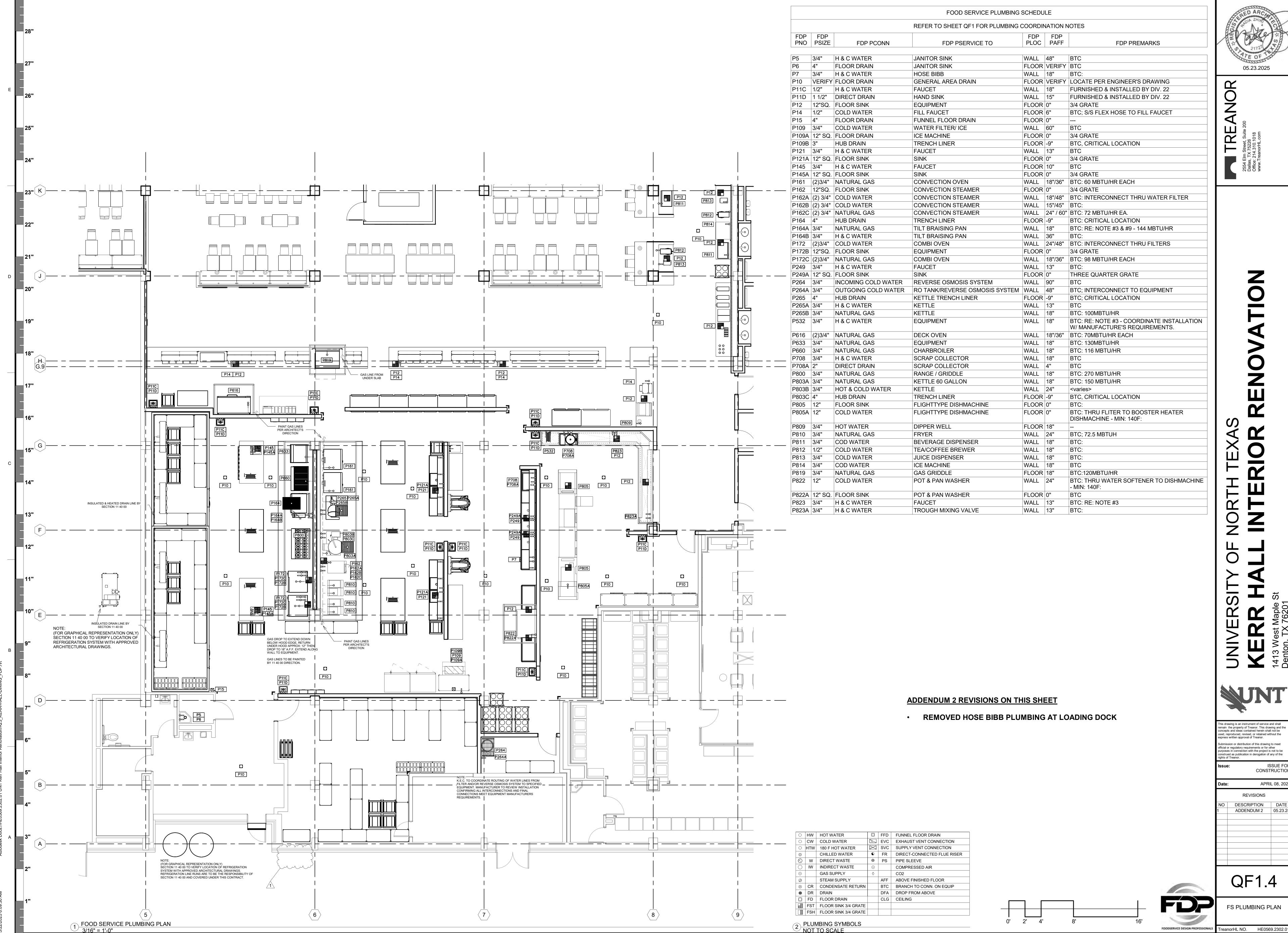
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DESCRIPTION DATE ADDENDUM 3 05.28.25

QF1.3

FS SPECIAL CONDITIONS & MECHANICAL PLAN

TreanorHL NO. HE0569.2302.0





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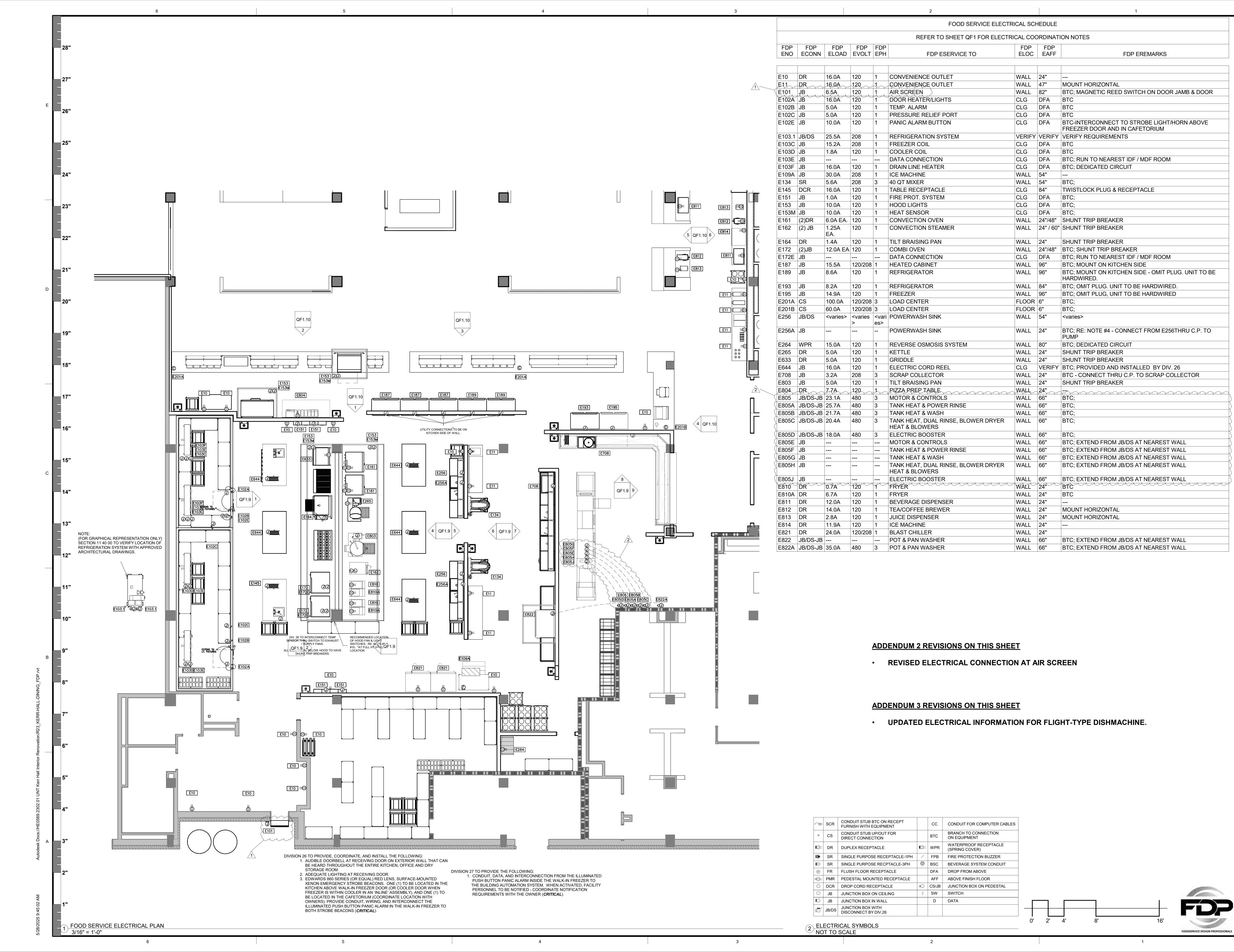
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FS PLUMBING PLAN





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ADDENDUM 3 05.28.25

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FS ELECTRICAL PLAN

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SAS LINE

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APRIL 08, 2025 REVISIONS

NO DESCRIPTION DATE

FS CONSTRUCTION DETAILS

FOODSERVICE DESIGN PROFESSIONALS TreanorHL NO. HE0569.2302.01

1/2" DIA. EMPTY CONDUIT CONCEALED WITHIN WALL CAVITY. EXTENDED UP 6" ABOVE CEILING BY DIVISION 26 ─ BUILDING WALL 4" x 4" OCTAGON BOX BY DIVISION 26 RECESS IN REMOTE FIRE PULL BY SECTION 6 FIRE PROTECTION SYSTEM RECESSED FIRE PULL DETAIL NOT TO SCALE

S/S ENCLOSURE W/AGENT TANK AND NITROGEN CARTRIDGE B DUCT NOZZLE(S) C PLENUM NOZZLE(S) SURFACE PROTECTION (E) FUSIBLE LINK(S) (2) WIRES FROM FIRE SYSTEM TO SHUNT TRIP BREAKERS FOR SHUT DOWN
OF ELECTRICAL CONNECTIONS
LOCATED BENEATH EXHAUST
HOOD DURING FIRE MODE REMOTE FIRE PULL (H) GAS VALVE (I) GAS SUPPLY (AS REQUIRED)

7 FIRE PROTECTION SYSTEM TYPICAL DETAIL NOT TO SCALE

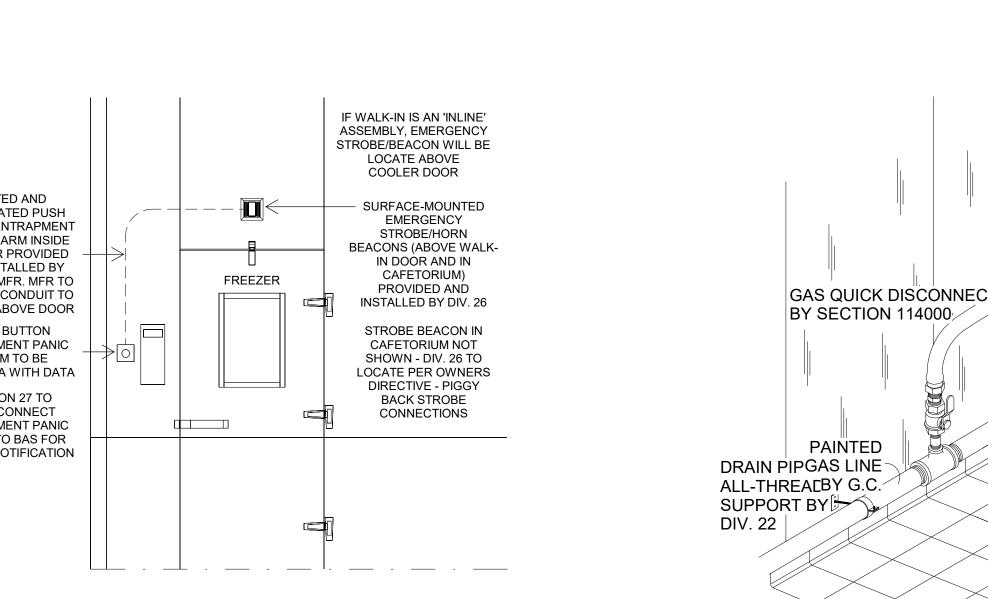
NOTE: REFER TO FDP EQUIPMENT PLAN

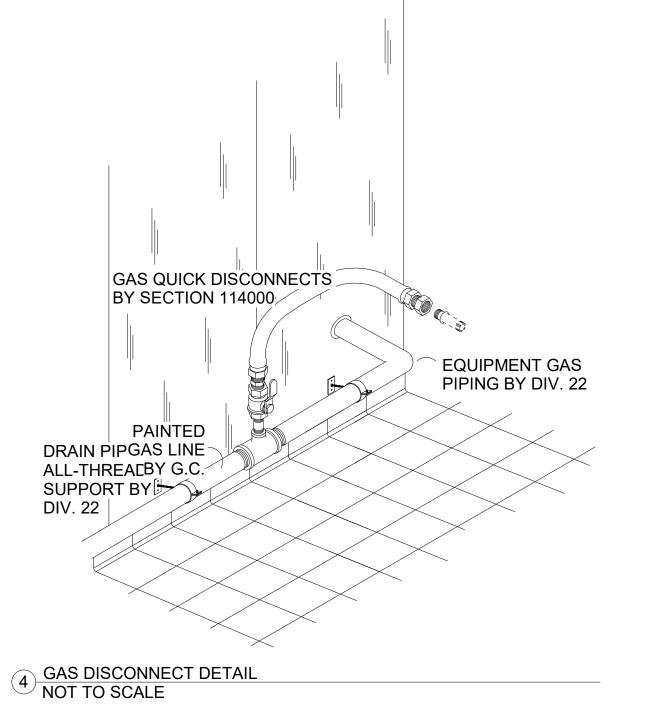
REPRESENTATION ONLY.

FOR SPECIFIC COMPONENTS UNDER HOOD.
ALL EQUIPMENT SHOWN HERE FOR GRAPHICAL

TO BUILDING AUTOMATION SYSTEM BY ALARM TO BE DIV. 27 120/1/10.0A WITH DATA **DIVISION 27 TO** INTERCONNECT **HEATED AND** ENTRAPMENT PANIC ILLUMINATED PUSH ALARM TO BAS FOR OWNER NOTIFICATION BUTTON ENTRAPMENT PANIC ALARM BY MFR FREEZER REMOTE STROBE IN STROBE CAFETORIUM ABOVE WALK-IN BY DIV. 26 (BY DIV. 26 -→ PIGGY BACK CONNECTION) 8 COLD STORAGE ASSEMBLY ENTRAPMENT PANIC ALARM DETAIL NOT TO SCALE

IF WALK-IN IS AN 'INLINE' ASSEMBLY, EMERGENCY STROBE/BEACON WILL BE LOCATE ABOVE COOLER DOOR HEATED AND ILLUMINATED PUSH - SURFACE-MOUNTED EMERGENCY **BUTTON ENTRAPMENT** STROBE/HORN PANIC ALARM INSIDE BEACONS (ABOVE WALK-FREEZER PROVIDED IN DOOR AND IN AND INSTALLED BY CAFETORIUM) FREEZER WALK-IN MFR. MFR TO PROVIDED AND PRE RUN CONDUIT TO INSTALLED BY DIV. 26 STROBE ABOVE DOOR PUSH BUTTON ENTRAPMENT PANIC STROBE BEACON IN CAFETORIUM NOT SHOWN - DIV. 26 TO LOCATE PER OWNERS **DIRECTIVE - PIGGY** BACK STROBE CONNECTIONS





SECTION 11 40 00 TO PROVIDE LOOSE WITH FOOD SERVICE EQUIPMENT.

INSTALLATION BY DIV. 22 & 26.

A VACUUM BREAKER

(B) DISPOSER

INSTALL

(C) TIME DELAY

F 1/2" CW INLET

(H) 1/2" CW

G FLOW CONTROL

& Y ADAPTOR

O POWER SUPPLY

DIVISION 26 TO PROVIDE AND INSTALL

(D) CONTROL PANEL

(E) SOLENOID VALVE

DIVISION 22 TO PROVIDE AND

(I) 2" DRAIN LINE WITH P-TRAP (M) SHOCK STOP

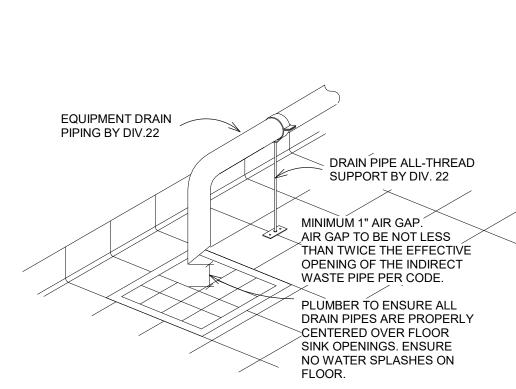
1 DISPOSER WITH VACUUM BREAKER DETAIL NOT TO SCALE

J 1-1/2" TAILPIECE

1/2" CW SUPPLY

(N) RPZ BACK FLOW PREVENTOR

(K) GATE VALVE



3 DRAIN PIPING FASTENER DETAIL NOT TO SCALE

FINISHED CEILING

EXHAUST HOOD

GAS LINE TO BE 18" A.F.F. & EXTEND ALONG WALL

FINISHED FLOOR

5 EXHAUST HOOD - GAS LINE ROUTING DETAIL NOT TO SCALE

TO EQUIPMENT.

EXTEND APPROX. 12" UNDER HOOD

REAR UNISTRUT ASSY
W/ FELD INSTALLED
WALL MOUNTING BRACKET
MOT TO SOALE
ANTERIOR TO EXTERNATE CONDINION OF 1/1/
PREARED ROSE AND WALL MOUNTING BRACKETS
TO METT REAL CONSTRUCTOR



D23-2207-1.152rev1

Dec. 12, 2023

SHEET

DRAWN BY

AT END OF COOKING DAY

(WHEN FAN SWITCH IS TURNED OFF)

THE THERMOSTAT WILL KEEP EXHAUST FAN
ON UNTIL THE ASTS—30 TEMPERATURE
SENSOR DROPS BELOW 110° F.

AT START OF COOKING DAY
IF EXHAUST FAN IS NOT TURNED ONWHEN ASTS-90 TEMPERATURE SENSOR
IN CAMOPP DETECTS 110°, EXHAUST FAN
TURNS ON.

<u>Q</u>

TRE

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DESCRIPTION DATE

QF1.6

TREANOR

304 STAINLESS STEEL USED FOR HOOD CONSTRUCTION AND ALL EXPOSED AREAS

S/S LOUVERED COLLECTION BAFFLES

UNISTRUT-

S/S LOUVERED

COLLECTION BAFFLES

O HOOD SECTION ITEM 159 SCALE 3/4"=1'-0"

1" S/S COLLAR
DRAIN CONNECTION

1" S/S DRAIN LINE TO 6" AFF

HOOD WGT. - 390 LBS

PLAN - MODEL CH - ITEM 159
SCALE 3/8"=1'-0"

EXHAUST COLLAR CHART

NO. SIZE CFM/FOOT CFM EACH FPM S.P.

1 10" X 15" 200 1200 1152 .30

HOODS DESIGNED TO MEET TO THE 2015 IECC C403.2.8 AND 2018 IECC C403.7.5 USING OPTION 1 PROVIDED BY THE CODES. NOTE TO G.C. AND CEILING GRID INSTALLERS : FASTENERS FOR CEILING GRID SURROUNDING KITCHEN HOOD MUST NOT PENETRATE HOOD CAPTURE AREA OR HOOD GREASE PLENUM.

IMPROPER PENETRATIONS THROUGH HOOD IN THESE AREAS VIOLATE

HOOD U.L. PROCEDURE AND LOCAL MECHANICAL CODE.

2320 PEYTON ROAD HOUSTON, TEXAS 77032 281 442 8001

KERR

COMMERCIAL KITCHENS INC.

2320 PEYTON ROAD HOUSTON, TEXAS 77032 281 442 8001

154 158 158 159 DRAWING # D23-2207-2.154rev1

Dec. 12, 2023

AT END OF COOKING DAY
(WHEN FAN SWITCH IS TURNED OFF)
THE THERMOSTAT WILL KEEP EXHAUST FAN
ON UNITL THE ASTS-90 TEMPERATURE
SENSOR DROPS BELOW 110' F.

REMOTE HOOD EXHAUST FAN MOTOR STARTER COIL (BY OTHERS)

*J BOXES ON TOP OF HOOD

SINGLE HOOD CKT

ASTS-90 T'STAT SET @ 110"

AUTO START

THERMAL SENSOR

ASTS—90

THERMOSTAT— VULCAN # 1C2B9
FACTORY PRE-SET TO 110° PILOT DUTY (1 AMP)

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QF1.7

TreanorHL NO. HE0569.2302.01

ASTS-90 HEAT SENSOR

120/1 1.0 AMP
TO J-BOX

(1)12 X 12" LED LIGHT
FACTORY SUPPLIED
LAMP PER FIXTURE

HOOD WGT. - 634 LBS

EXHAUST COLLAR CHART

SIZE | CFM/FOOT | CFM EACH | FPM | S.P.

10" X 13" 210 1399 1550 .50'

PLAN - MODEL W ITEM 154
SCALE 3/8"=1'-0"

ASTS-90 TEMPERATURE SENSOR ASSY INSTALLED IN (2) 4" X 4" J-BOXES W/ OPEN BOTTOM & BLANK COVER ON TOP

/ S/S REMOVABLE

FILTERS

DOUBLE LAYER FIRE BLANKET

FRONT UNISTRUT ASSY
HOT TO SOALE
HISTAILER TO DETERMINE LOCATIONS OF 1/2*
THREADED RODS TO MEET PRID COMMINONS

REAR UNISTRUT ASSY
W/ "J" FRAME
NOT SOME SOME OF 1/4"
THERAFED ROSE TO MEET PRED CONSTRUCT
THERAFED ROSE TO MEET PRED CONSTRUCTS

FULL HT. FLAT WALL PANELS

2'-2"
FULL HT. FLAT
WALL PANELS
RIGHT SIDE

6"BASE

FULL LENGTH UNISTRUT HANGER BRACKET

FRONT UNISTRUT ASSY MOTIOS SOLE MASSALER TO DETERME LOCATIONS OF 1/2" MEAGED ROOS TO MEET PELD COMMINGS

REAR UNISTRUIT ASSY
W/ FIELD INSTALLED
WALL MOUNTING BRACKET
NOT TO SCALE
HISTARIES TO ESTIMATE LOCATIONS OF 1/2",
IMPERIOD ROSS AND WALL MOUNTING BRACKETS
TO MEET PRID CONDITIONS

5'-6" STAINLESS STEEL FINISHED BACK

ASTS-90 HEAT SENSOR

HOOD WGT. - 523 LBS

EXHAUST COLLAR CHART

1 10" X 15" 300 1650 1584 .65"

ASTS-90 TEMPERATURE SENSOR ASSY INSTALLED IN (2) 4" X 4" J-BOXES W/ OPEN BOTTOM & BLANK COVER ON TOP

S/S REMOVABLE

HOOD SECTION ITEM 158

SCALE 3/4"=1'-0"

FILTERS

S/S FINISHED BACK

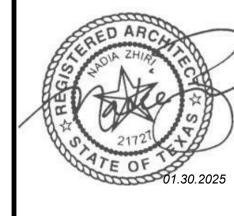
SIZE CFM/FOOT CFM EACH FPM S.P.

PLAN - MODEL W ITEM 158
SCALE 3/8"=1'-0"

120/1 1.0 AMP TO J-BOX

(1)12 X 12" LED LIGHT FACTORY SUPPLIED LAMP PER FIXTURE

FULL LENGTH UNISTRUT HANGER BRACKET



2554 Elm Street, Suite 200
Dallas, TX 75226
Office: 214 310 1018

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NIVERSITY OF NORTH TEXAS ERR HALL INTERIOR RENOVAI

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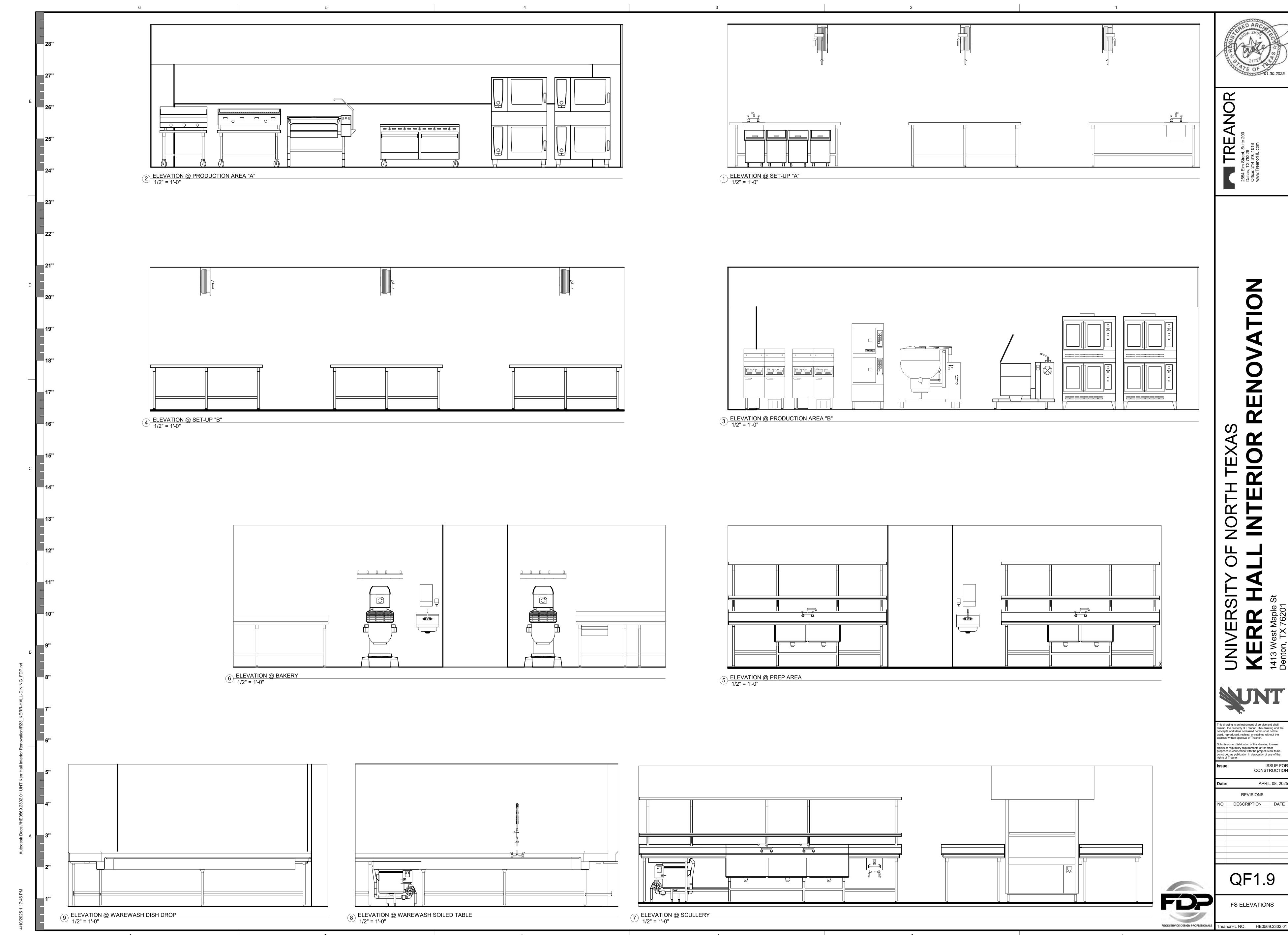
NO DESCRIPTION DATE

QF1.8

FS CONDENSING UNITS

TreanorHL NO. HE0569.2302.01

FOODSERVICE DESIGN PROFESSIONALS



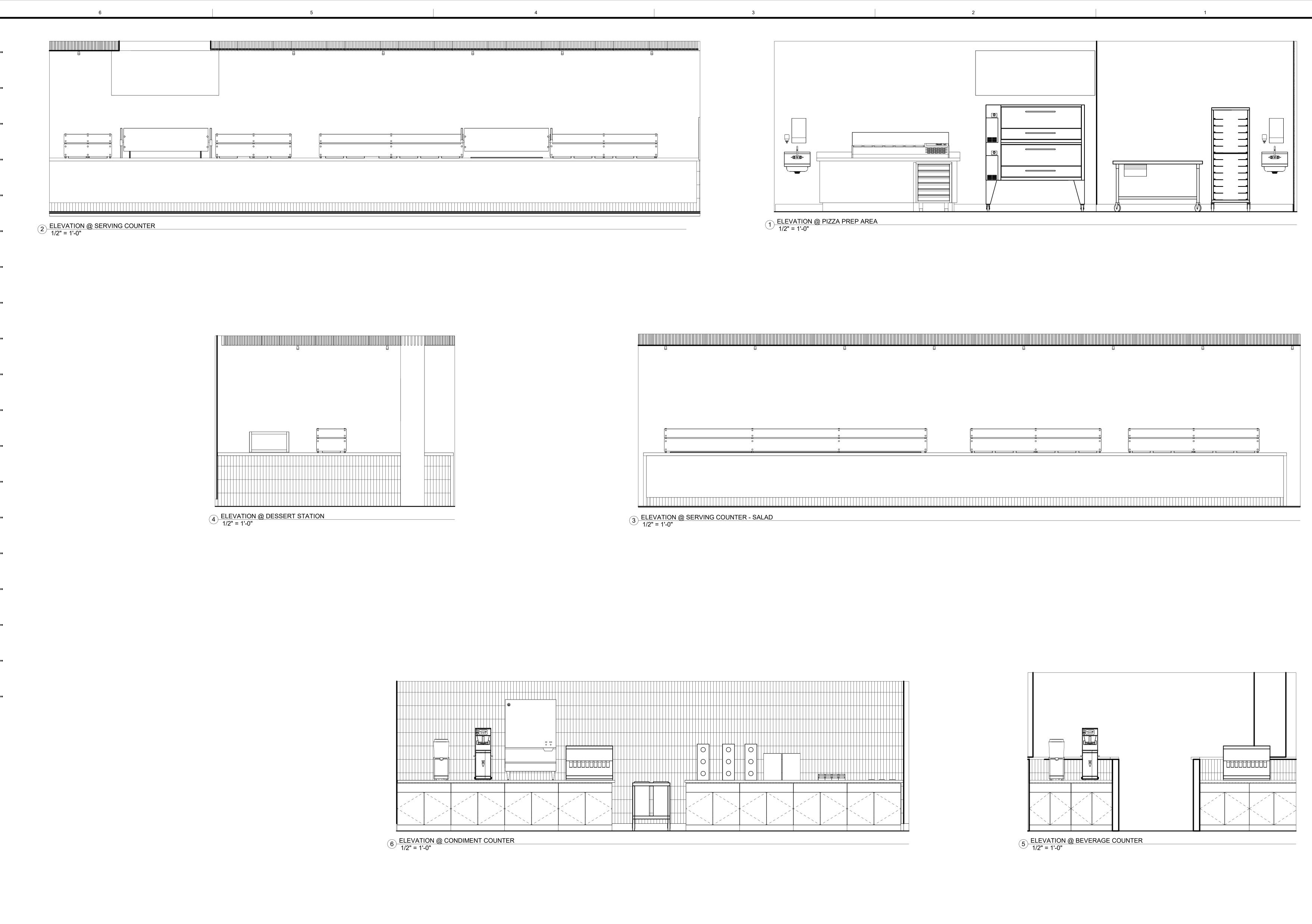
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FS ELEVATIONS





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Date: APRIL 08, 2025

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NO DESCRIPTION DATE

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FS ELEVATIONS

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WORKTABLE W/ OVER SHELF SECTION NOT TO SCALE

SECTION DETAIL NOTES
NOT TO SCALE

5 BAKER'S TABLE W/ S.S TOP SECTION NOT TO SCALE

4 SINK - PREP TABLE SECTION NOT TO SCALE

3 BAKER'S TABLE DRAWER BASE SECTION NOT TO SCALE

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11.14.2024

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FS SECTIONS & DETAILS

FOODSERVICE DESIGN PROFESSIONALS

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FS DETAILS

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FOODSERVICE DESIGN PROFESSIONAL

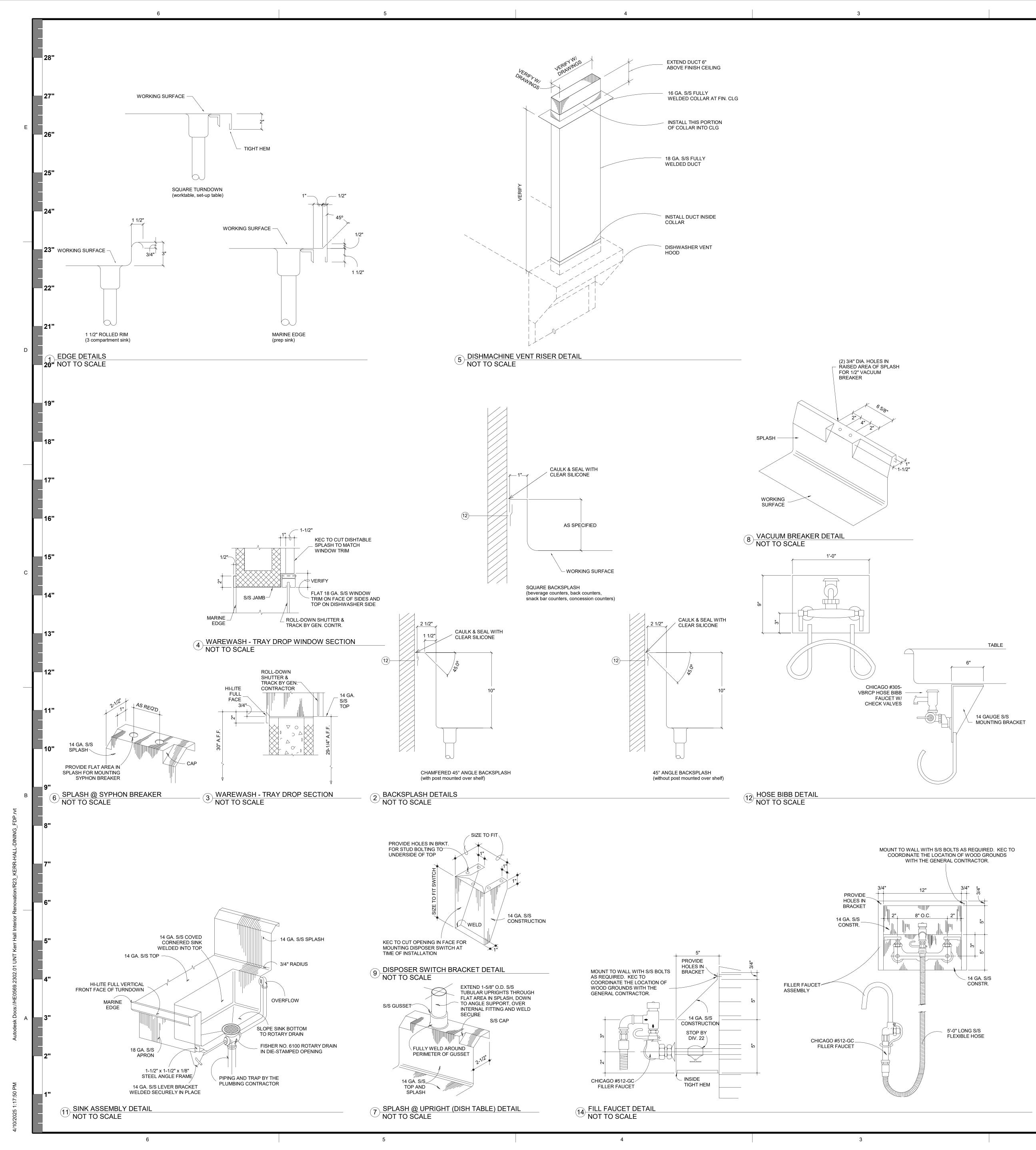
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QF2.2

FS DETAILS

TreanorHL NO. HE0569.2302.01

FOODSERVICE DESIGN PROFESSIONALS



CUSTOM FABRICATION NOTES

- WORK SHALL BE DONE IN AN APPROVED WORKMANLIKE MANNER, TO COMPLETE SATISFACTION OF FOODSERVICE DESIGN PROFESSIONALS (FDP).
- STAINLESS STEEL SHALL BE U.S. STANDARD GAUGES AS CALLED FOR. 18-8, TYPE 304, NOT OVER .012% MAXIMUM CARBON, NO. 4 FINISH.
- GALVANIZED IRON SHALL BE ARMCO OR EQUAL. FRAMEWORK OF GALVANIZED IRON SHALL BE WELDED CONSTRUCTION, HAVING WELDS SMOOTH, AND WHERE GALVANIZING HAS BURNED OFF, TOUCHED UP WITH HIGH-GRADE ALUMINUM BRONZE.
- D. LEGS AND CROSSRAIL SHALL BE CONTINUOUSLY WELDED, UNLESS OTHERWISE NOTED, AND GROUND SMOOTH.
 - BOTTOM OF LEGS AT FLOOR SHALL BE FITTED WITH SANITARY STAINLESS STEEL
- BULLET-TYPE FOOT, WITH NO LESS THAN 1/2" ADJUSTMENT.
- F. LEGS SHALL BE FASTENED TO EQUIPMENT AS FOLLOWS:
- 01. TO SINKS BY MEANS OF CLOSED GUSSETS. GUSSETS SHALL BE S/S, REINFORCED WITH BUSHING, HAVING SET SCREWS FOR SECURING LEGS.
- 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.
- G. CLOSED GUSSETS SHALL BE 3" MINIMUM DIAMETER AT TOP, WELDED TO FRAME MEMBERS OR TO SINK BOTTOM.
- H. ROLLS SHALL BE 1 1/2" DIAMETER, EXCEPT AS DETAILED TO THE CONTRARY, WITH CORNERS BULLNOSED, GROUND, AND POLISHED.
- 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 BE WELDED.
- METAL TOPS SHALL BE ONE-PIECE WELDED CONSTRUCTION UNLESS SPECIFIED OTHERWISE, REINFORCED ON UNDERSIDE WITH GALVANIZED HAT SECTIONS OR 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 MANUFACTURER'S NAME AND NUMBER SO THAT BROKEN OR WORN PARTS MAY BE ORDERED AND REPLACED.
- FABRICATE SINK COMPARTMENTS WITH 3/4" COVED VERTICAL AND HORIZONTAL CORNERS. MULTIPLE- COMPARTMENT PARTITIONS TO BE DOUBLE THICKNESS, CONTINUOUSLY WELDED WHERE SHEETS JOIN AT TOP. FRONT OF MULTIPLE-COMPARTMENT PARTITIONS TO BE CONTINUOUS ON EXTERIOR. BOTTOMS SHALL BE CREASED TO DRAIN.
- M. ENDS OF FIXTURES, SPLASHBACKS, SHELVES, ETC., SHALL BE FINISHED FLUSH TO WALLS OR ADJOINING FIXTURES.
- N. DISHTABLES, DRAINBOARDS, SPLASHBACKS, AND TURN-UP EDGES SHALL HAVE RADIUS BENDS IN ALL HORIZONTAL AND VERTICAL CORNERS, COVED AT INTERSECTIONS.
- ROUNDED AND COVED CORNERS OR RADIUS BENDS SHALL BE 1/2" RADIUS OR LONGER.
- UNDERSIDES OF TOPS TO BE COATED WITH HEAVY-BODIED RESINOUS MATERIAL COMPOUND FOR PERMANENT, NON-FLAKING ADHESION TO METAL, 1/8" THICK, APPLIED AFTER REINFORCING MEMBERS HAVE BEEN INSTALLED, DRYING WITHOUT DIRT-CATCHING CREVICES.
- Q. SHELVES ARE TO BE TURNED UP 2" ON THE BACK EDGE. TURN OTHER EDGES DOWN 1 1/2" TO FORM OPEN CHANNELS. REINFORCE SHELF UNITS TO SUPPORT 40 LBS. PER SQUARE FOOT LOADING, PLUS 100% IMPACT LOADING.
- TRIMWORK AND FRAMING AT MASONRY OPENINGS SHALL BE 18 GAUGE STAINLESS STEEL AND FORMED SO AS TO FIT SNUG TO WALLS AND ADJACENT SURFACES. FRAMING SHALL EXTEND A MINIMUM OF 2" ON EACH SURFACE. SEAL TRIMWORK TO WALLS. REFER TO DRAWINGS.
- METAL COMPONENTS, UNLESS SPECIFIED OR NOTED OTHERWISE, TO BE THE FOLLOWING GAUGES:

TABLETOPS	14 GAUGE STAINLESS STEEL
WALL SHELVES	16 GAUGE STAINLESS STEEL
UNDER SHELVES	16 GAUGE STAINLESS STEEL
SINKS & DRAINBOARDS	14 GAUGE STAINLESS STEEL
EXHAUST DUCTS	18 GAUGE STAINLESS STEEL
LEGS - 1 5/8" DIA.	16 GAUGE STAINLESS STEEL

10 CUSTOM FAB NOTES NOT TO SCALE

<u>E-AHU-A1-1</u>

1 LEVEL 1 MECHANICAL DEMO PLAN - DINING 1/8" = 1'-0"

REVISION SUMMARY: - DEMO SHEET ADDED TO ELABORATE SCOPE.



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Issue: ISSUE FO CONSTRUCTIO														
Date	: JANUAR`	Y 30, 2025												
	REVISIONS													
NO	DESCRIPTION	DATE												
1	ADDENDUM 2	05.23.25												

LEVEL 1 MECHANICAL DEMOLITION PLAN -DINING

CONSTRUCTION DOCUMENTS, INCLUDING THE SPECIFICATIONS.

B. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES. C. ALL WORK SHALL BE IN COMPLIANCE WITH THE TENANT/OWNER/CAMPUS DESIGN STANDARDS. CONTRACTOR SHOULD BE FAMILIAR WITH STANDARDS PRIOR TO BID.

). CONTRACTOR SHALL SPECIFICALLY LIST ANY EXCEPTIONS TO THE CONSTRUCTION DOCUMENTS IN THEIR BID. DRAWINGS ARE SCHEMATIC IN NATURE. EXACT LOCATIONS OF DUCTWORK, PIPING, AND EQUIPMENT, INCLUDING REQUIRED CLEARANCES, TO BE COORDINATED WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS. . THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCOPE OF WORK SHOWN IN THE COMPLETE SET OF

G. THIS CONTRACTOR IS RESPONSIBLE FOR FIRE STOPPING AT ALL MECHANICAL PENETRATIONS OF FIRE AND SMOKE RATED STRUCTURES, FLOORS AND PARTITIONS. REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATION OF ALL H. PROVIDE FIRE DAMPERS FOR ALL DUCT PENETRATIONS THRU FIRE RATED ASSEMBLIES. PROVIDE COMBINATION FIRE/SMOKE DAMPERS FOR ALL PENETRATIONS THRU SHAFT WALLS AND CORRIDOR WALLS.

THIS CONTRACTOR IS TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQUIRED FOR INSTALLATION OF THE MECHANICAL SYSTEMS. COORDINATE CEILING DIFFUSERS AND GRILLES WITH LIGHTING FIXTURES. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN. K. ALL SUPPLY, RETURN AND EXHAUST DUCT SIZES INDICATED ARE FREE AREA.

CONTRACTOR TO VERIFY ALL FIELD CONDITIONS PRIOR TO ORDERING MATERIALS AND/OR EQUIPMENT OR BEGINNING ANY WORK WITHOUT AUTHORIZATION. REPORT ANY DISCREPANCIES TO THE OWNER/ARCHITECT

M. CONTRACTOR TO FIELD VERIFY ALL WALLS TO DECK AND PROVIDE TRANSFER BOOTS THRU ALL WALLS TO DECK PER DETAILS. THERMOSTATS TO BE MOUNTED 48" ABOVE FINISHED FLOOR LEVEL UNLESS NOTED OTHERWISE ON THE PLANS. CONTRACTOR TO VERIFY ALL THERMOSTATS LOCATIONS WITH ARCHITECT PRIOR TO ROUGH IN. N. ELECTRICAL CONTRACTOR TO PROVIDE J-BOX AND CONDUIT TO ACCESSIBLE CEILING FOR ALL T-STATS AND

SENSORS. COORDINATE LOCATIONS OF T-STATS AND SENSORS WITH ELECTRICAL CONTRACTOR. O. ALL MEDIUM PRESSURE DUCTS (BOTH SQUARE AND ROUND) SHALL HAVE RADIUS ELBOWS (45 DEG. AND 90 DEG.). P. ALL MEDIUM PRESSURE AND LOW PRESSURE DUCT WORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED TO SMACNA STANDARDS (MOST RECENT) AND SEAL CLASS A. MEDIUM PRESSURE DUCT SHALL BE 4 " W.G. AND LOW PRESSURE DUCT SHALL BE 2" W.G. MEDIUM PRESSURE DUCT SHALL BE LEAK TESTED IN ACCORDANCE WITH THE

MOST CURRENT VERSION OF THE SMACNA AIR DUCT LEAKAGE TEST MANUAL. . ALL SUPPLY AIR DUCT, OUTSIDE AIR INTAKE DUCT, AND GREASE EXHAUST DUCT SHALL BE INSULATED PER THE SPECIFICATIONS AND/OR SCHEDULES.

R. INDIVIDUAL DUCT RUN-OUTS TO EACH DIFFUSER SHALL BE SIZED IN ACCORDANCE TO THE DIFFUSER NECK SIZE FOUND IN THE GRILLES-REGISTERS-DIFFUSERS SCHEDULE. S. PIPES AND DUCTS TO BE COORDINATED ON JOB WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS. ROUTE AS HIGH AS PHYSICALLY POSSIBLE. OFFSET DUCTS INTO JOIST SPACE FOR CLEARANCE

WHERE SPACE ABOVE CEILING IS NOT SUFFICIENT FOR DUCTS TO CROSS OTHER DUCTS OR WORK OF OTHER T. INSULATED FLEX DUCT IN THE MEDIUM PRESSURE SYSTEM SHALL BE UTILIZED AT INLET TO VAV BOX OR FAN POWERED BOX ONLY. LENGTH SHALL BE LIMITED TO AN OVERALL LENGTH OF TWO (2) FEET AND BE STRAIGHT

RUN. INSULATED FLEX DUCT IN THE LOW PRESSURE SYSTEM SHALL BE LIMITED TO AN OVERALL LENGTH OF SIX (6) FEET WITH A MAXIMUM OF A 90 DEGREE CHANGE IN DIRECTION. SUPPORTS SHALL BE SADDLE BANDED TO STRUCTURE. SUPPORTING FROM FIRE PROTECTION PIPING, ELECTRICAL CONDUIT OR CEILING SUPPORT WIRES IS NOT ACCEPTABLE. U. VAV BOXES AND FAN POWERED BOXES SHALL HAVE UNOBSTRUCTED CLEARANCE TO ALL VALVES AND ACCESS DOORS. SEE FAN POWERED BOX (FPB) AND/OR VARIABLE AIR VOLUME (VAV) BOX REQUIRED NATIONAL ELECTRIC

CODE (NEC) CLEARENCE DETAILS FOR ADDITIONAL INFORMATION. V. PROVIDE TEMPORARY HIGH EFFICIENCY FILTER MEDIA ON ALL RETURN AIR AND EXHAUST OPENINGS AT BEGINNING OF PROJECT AND REPLACED AT TWO (2) WEEK INTERVALS UNTIL PROJECT COMPLETION AT WHICH TIME THE FILTER MEDIA SHALL BE REMOVED. W. CONTRACTOR SHALL PROVIDE YOUNG CONCEALED DAMPER REGULATORS WITH A DAMPER CABLE CONTROL KIT EQUAL TO BOWDEN MODEL 270-896P FOR ALL GYPSUM BOARD APPLICATIONS. COORDINATE SHAFT SIZE OF DAMPER WITH KIT FOR PROPER COMPATIBILITY. REFER TO ARCHITECTURAL DRAWINGS FOR ALL LOCATIONS INDICATED WITH GYPSUM BOARD CEILING AND COORDINATE WITH ARCHITECT FOR EXACT LOCATION OF

X. CONNECTIONS BETWEEN FERROUS AND NON-FERROUS PIPING SYSTEMS, AND BETWEEN FERROUS PIPING SYSTEMS AND NON-FERROUS CONNECTIONS TO EQUIPMENT SHALL BE MADE BY THE USE OF DIELECTRIC UNIONS, COUPLINGS OR FLANGES AS MANUFACTURED BY CRANE, EPCO, F.M. MALONEY, UNIVERSAL MANUFACTURING CO.

Y. 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 IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THAT THE EXISTING DUCTWORK SIZE IS THE

SAME AS INDICATED ON THE PLANS AND IS ADEQUATE FOR NO MORE THAN 0.30 OF STATIC PRESSURE PER 100 FEET FOR MEDIUM PRESSURE DUCTWORK BASED ON THE CFM'S INDICATED ON THE PLANS AND THAT EXISTING DIFFUSER NECK SIZES MEET THE REQUIREMENTS AS INDICATED FOR NEW DIFFUSERS. AA. ALL EXISTING DUCTWORK SHALL BE FIELD VERIFIED TO BE INSULATED AND IN GOOD CONDITION, ANY TORN,

DAMAGED OR MISSING INSULATION WILL BE REPLACED. EXISTING CONTROLS SHALL BE CONFIRMED TO BE IN WORKING CONDITION. AB. FOR AHU'S, MECHANICAL CONTRACTOR SHALL INSTALL THE DUCTMOUNTED SMOKE DECTORS AND DIV 26 SHALL

BASE DESIGN CRITERIA LIST

FURNISH AND CONNECT FOR SHUT DOWN OF UNIT AND OTHER CODE REQUIREMENTS.

OUTDOOR DESIGN CONDITIONS FOR CITY, STATE

DRY BULB TEMPERATURE = 102 DEG F WET BULB TEMPERATURE = 75 DEG F

DRY BULB TEMPERATURE = 10 DEG F

INDOOR DESIGN CONDITIONS FOR CITY, STATE DRY BULB TEMPERATURE = 75 DEG F WET BULB TEMPERATURE = 63 DEG F

DRY BULB TEMPERATURE = 70 DEG F HUMIDITY = NO MINIMUM

HUMIDITY = 50%

MECHANICAL APPLICABLE CODES

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

	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

GENERAL NOTES (APPLIES TO ALL): NOT ALL PIPE AND DUCT TYPES MAY BE USED IN PLAN. REFER TO FLOOR PLANS FOR MORE INFORMATION.

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 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. NA. NOT APPLICABLE OR NONE REQUIRED.

FINISH TYPES:

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

NA. NOT APPLICABLE OR NONE REQUIRED.

APPLICATION	MATERIAL	FITTINGS	JOINTS
HEATING WATER			
UNDERGROUND	PREINSULATED	WELDED	WELDED
ABOVEGROUND			
2" AND SMALLER	COPPER	WROUGHT-COPPER	BRAZED
		*PRESS FITTING	GS ACCEPTED
	SCHEDULE 40 BLACK STEEL	MALEABLE-IRON	THREADED
		CAST-IRON FLANGED	
2-1/2" THRU 10"	SCHEDULE 40 BLACK STEEL	WROUGHT STEEL	WELDED FLANGE
		FLANGE	
		MECHANICALLY GROOVED-END FIT USED IN MECH	
12" AND LARGER	SCHEDULE 30 BLACK STEEL	GROOVED	GROOVED
		MECHANICAL JOIN	COUPLINGS
		GROOVED TYPE COUPLINGS A USED AT RISERS OR C	
CHILLED/ CONDENSER WATER			
UNDERGROUND			
OUTSIDE BUILDING FOOTPRINT	PREINSULATED	WELDED	WELDED
WITHIN BUILDING FOOTPRINT	COPPER	WROUGHT-COPPER	BRAZED
ABOVEGROUND		<u>I</u>	
2" AND SMALLER	COPPER	WROUGHT-COPPER	BRAZED
_ · · · · - · · · · · · · · · · · · · ·		*PRESS FITTIN	
	SCHEDULE 40 BLACK STEEL	MALEABLE-IRON	THREADED
	SCHEDULE 40 BLACK STEEL	CAST-IRON FLANGED	INNEADED
2-1/2" THRU 10"	SCHEDULE 40 BLACK STEEL	WROUGHT STEEL	WELDED FLANGE
2-1/2 THRU 10	SCHEDOLL 40 BLACK STELL	FLANGE	WEEDEDTEANGE
		MECHANICALLY GROOVED-END MAY BE USED IN ME	
12" AND LARGER	SCHEDULE 30 BLACK STEEL	GROOVED	GROOVED
12 AND LANGEN	CONEDULE OF BENON OFFEE	MECHANICAL JO	
		GROOVED TYPE COUPLINGS AND F RISERS OR CONC	FITTINGS MAY NOT BE USED /
CONDENSATE	<u>I</u>	1	
	COPPER	WROUGHT COPPER	SOLDERED
DEEDIGEDANT	1 0011 210	1	30252.125
REFRIGERANT	405	WPOLIGIT CORRER	DD 4.750
	ACR	WROUGHT COPPER	BRAZED

SYSTEM OR COMPONENT	FURNISHED BY	INSTALLED E
EXPOSED CEILINGS AND INACCESSIBLE CEILINGS		
Conduit for Fire Alarm Wiring	E	Е
Conduit for Controls Wiring	TC	TC
EXPOSED CEILINGS AND INACCESSIBLE CEILINGS	M	M
Duct Mounted Smoke Detectors	FA	М
Area Type Smoke Detectors	FA	FA
Fire Alarm Shut-Down Interlock Modules	FA	TC
Motorized Control Dampers	MANUFACTURER	MANUFACTUR
24 Volt Power to Dampers	TC	TC
Damper Actuator	TC	М
VRV FAN COIL UNITS AND CONDENSING UNITS		
24 Volt DDC Controllers	TC AND MANUF.	MANUFACTUR
24 Volt Wiring from Transformer to all Controllers	MANUFACTURER	TC
Control Wiring Between FCU Box and Thermostat	MANUFACTURER	TC
FIRE ALARM		
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
120 Volt Emergency Power (Dedicated Circuits) for Fire Alarm Boosters	E	E
MOTORIZED FIRE & COMBINATION FIRE/SMOKE DAMPERS		
Motorized Fire & Combination Fire/Smoke Dampers	M	M
Control Conduit	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	MANUFACTURER	MANUFACTUR
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
M = MECHANICAL SUB-CONTRACTOR E = ELECTRICAL SUB-CONTRACTOR		

SYMBOL	DESCRIPTION
3 TWIDOL	
	ARROW INDICATES EXISTING TO BE RELOCATED AS INDICATED ON PLAN
150	REDISTRIBUTE AIR TO EXISTING DIFFUSER AS INDICATED ON PLAN
10X10 100,A	INDICATES SIZE, CFM, AND DIFFUSER TYPE
\boxtimes	NEW CEILING SUPPLY DIFFUSER
	NEW RETURN AIR/EXHAUST GRILLE
	EXISTING RETURN AIR/EXHAUST GRILLE
	NEW SLOT DIFFUSER
	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
FD	FIRE (SMOKE) DAMPER (24V ACTUATOR)
(T)	NEW OR RELOCATED THERMOSTAT
(<u>T</u>)	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
(<u>M</u>)_NO	MOTORIZED DAMPER
150	REDISTRIBUTE AIR TO EXISTING LUMINAIRE AIR DIFFUSER AS INDICATED ON PLAN
	NEW CEILING LUMINAIRE AIR DIFFUSER
	SPIN-IN FITTING WITH DAMPER (RECTANGULAR TO ROUND)
	SPLIT BRANCH TAKE-OFF WITH RADIUS ELBOW MEDIUM PRESSURE DUCT
	DOUBLE THICKNESS TURNING VANES
CHS	CHILLED WATER SUPPLY PIPING
— CHR—	CHILLED WATER RETURN PIPING
— CWS—	CONDENSOR WATER SUPPLY PIPING
— CWR—	CONDENSOR WATER RETURN PIPING
——C——	CONDENSATE DRAIN PIPING
	PRESSURE REDUCING VALVE/FLOW CONTROL VALVE
	ASME TEMPERATURE & PRESSURE RELIEF VALVE
	THERMOMETER
	BLOCK VALVE, SHUT-OFF VALVE
	GATE VALVE
—III	BALL VALVE
	GLOBE VALVE
─ ↓	BUTTERFLY VALVE
	PIPING DOWN
	PIPING UP - OR - PIPING UP & DOWN
]	CAP ON END OF PIPE
	PETE'S PLUG
	GAS COCK
	PRESSURE GAUGE W/ COCK
─	MEDIUM TO LOW PRESSURE GAS REGULATOR
—— ——	UNION

MEDIUM PRESSURE DUCTWORK SHALL BE SIZED AT FEET PER MINUTE. LOW PRESSURE DUCTWORK SHAFOR A FRICTION LOSS OF 0.08"/100'. TOILET AND GE EXHAUST SIZED FOR A FRICTION LOSS OF 0.08"/100'. EXHAUST DUCTWORK SHALL BE SIZED AT 1500 FEET MINUTE. REFER TO iM5.02 FOR GREASE DUCT INSULAND DUCT CONSTRUCTION. DISHWASHER EXHAUST SHALL BE STAINLESS STEEL OR ALUMINUM.	ALL SIZED NERAL GREASE PER ATION
FOR MEDIUM PRESSURE DUCTWORK ABOVE CEILING MEDIUM PRESSURE DUCTWORK SHALL BE EXTERNATINSULATED. FOR LOW PRESSURE DUCTWORK ABOVE CEILINGS LOW PRESSURE DUCTS TO BE EXTERNALLY INSULATED. ALL RETURN DUCTS TO BE INTERNALLY WITH NONFIBOROUS LINER.	ILLY /E _Y
IN EXPOSED CEILINGS, MEDIUM PRESSURE SUPPLY TO BE TO BE INTERNALLY LINED FLAT OVAL DUCT WEXPOSED CEILINGS, LOW PRESSURE SUPPLY DUCTS INTERNALLY LINED ROUND SPIRAL DUCT.	ORK. IN
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

YOUNG REGULATOR REPRESENTATIVE AT TEXAS

AIR SYSTEMS FOR DIFFUSER FACE ADJUSTABLE

KIT REQUIRED FOR EACH TYPE OF DIFFUSER IN

COMPATIBILITY. ANY DEVICES AT CEILING SHALL

BE CENTERED AND SYMMETRICAL WITHIN

CEILING. COORDINATE ALL LOCATIONS WITH

INACCESSIBLE CEILING. COORDINATE SHAFT SIZE

INSTALLED IN CEILING. COORDINATE WITH

OF DAMPER WITH KIT FOR PROPER

ARCHITECT.

TO BE	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. ENSUR RETURN AIR PATH FOR ALL ROOMS FROM ROOM TO UNIT SERVING ROOM, CUMULATIVEL 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 LOCATION.

ALL DUCT WORK IN EXPOSED AREAS

COORDIANTE THE COLOR THAT THE

DUCT WORK IS TO BE PAINTED WITH

TO HAVE A PAINT GRIP FINISH.

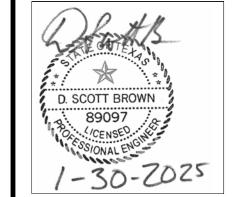
PIPING TO BE DOMESTIC BLACK

NEAREST FLOOR DRAIN.

THE ARCHITECT.

	<u>BU</u>	ILDING A	AIR BALA	<u>NCE</u>		
EQUIP NO.	SUPPLY CFM	MIN O.A. CFM	MAX O.A. CFM	MIN. EXHAUST CFM	MAX EXHAUST CFM	RELIEF CFM
E-AHU-A1-1	12,500	3750	7,250			
E-AHU-A1-4	14,000	2000	7,250			
E-AHU-A1-5	7,952	0	7,952			
REF-K-1						3705
GEF-1				0	19,657	
KEF-1				0	750	
TEF-K-1				200	200	
TEF-K-2				700	700	
TOTALS:	34,092	5750	22,452	900	21,307	3705

** RELIEF FAN ONLY TO RUN WHEN GEF-1 IS NOT RUNNING. ** UNITS TO ONLY RUN MIN. OA WHEN GEF-1 IS NOT RUNNING. THE BUILDING IS 1145 CFM POSITIVE



ALL NEW CHILLED AND HOT WATER ROUTE CONDENSATE FOR AHU'S TO

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Mechanical - Electrical Enginee 17300 North Dallas Parkwa Firm Registration # F-151 Tel: 972/239-5357 Fax: 972/239-5231 www.purdy-mcguire.com SCOTT BROWN,

PROJECT MGR. MITCHELL HENTON MITCHELL HENTON CHANICAL CHRIS WOODYARD JOHN KNOWLES THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT OTED IN THE TITLE BLOCK, WITHOUT THE RITTEN CONSENT OF PURDY-McGUIRE, INC

ISSUE FO CONSTRUCTION **REVISIONS** DESCRIPTION DATE

MECHANICAL NOTES & SYMBOLS

2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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

D= TELECOMMUNICATIONS CONTRACTOR

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reanorHL NO. HE0569.2302.0

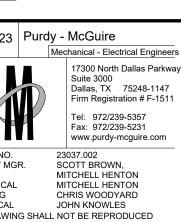
REVISION SUMMARY: - REVISED LOUVER SIZE AND TYPE. - REVISED KEYED NOTE 3. - REVISED RELIEF LOUVER SIZE AND LOCATION. - REVISED REF-K-1 AND REVISED DUCT ROUTING.
- REVISED KEYED NOTE 5.
- ADDED KEYED NOTE 17.



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89097





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DESCRIPTION DATE ADDENDUM 2 05.23.2

iM201B

LEVEL 1 MECHANICAL PLAN - DINING

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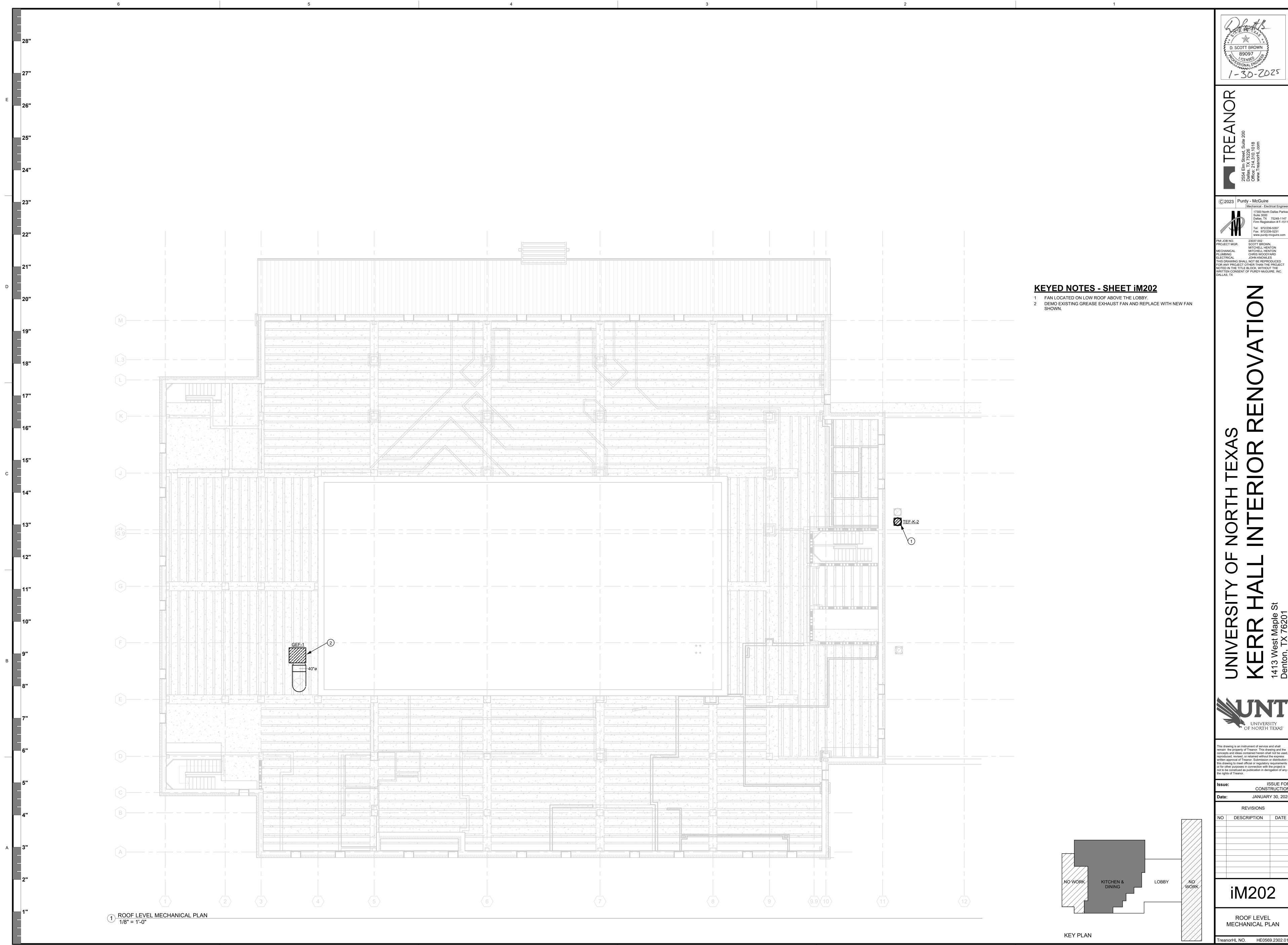
KEY PLAN

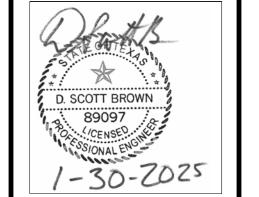
NO WORK

KITCHEN & DINING

LOBBY

NO/ WORK/





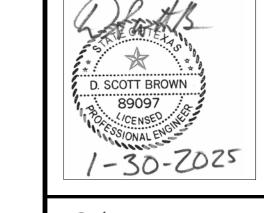
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ELECTRICAL JOHN KNOWLES
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ROOF LEVEL MECHANICAL PLAN









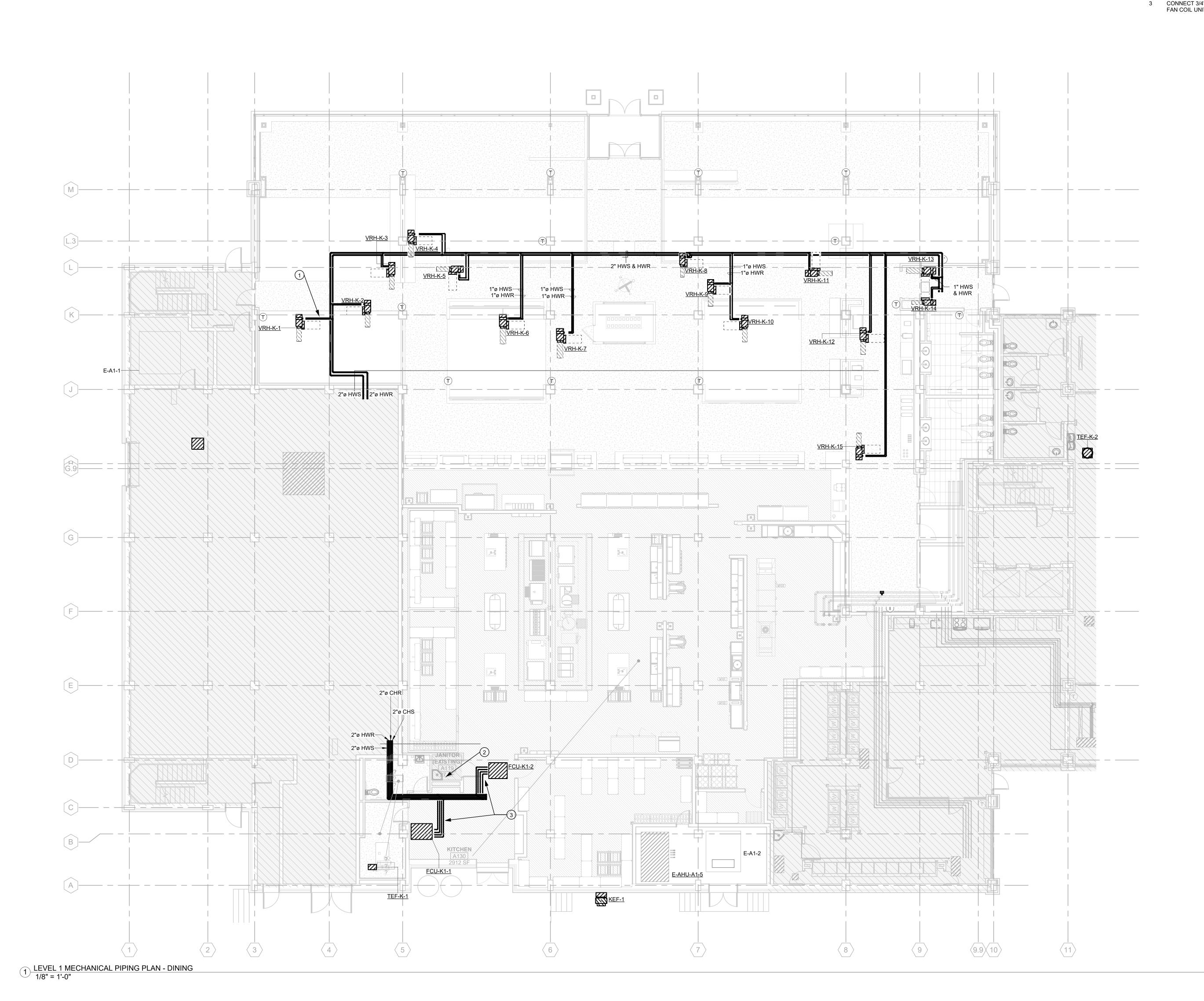
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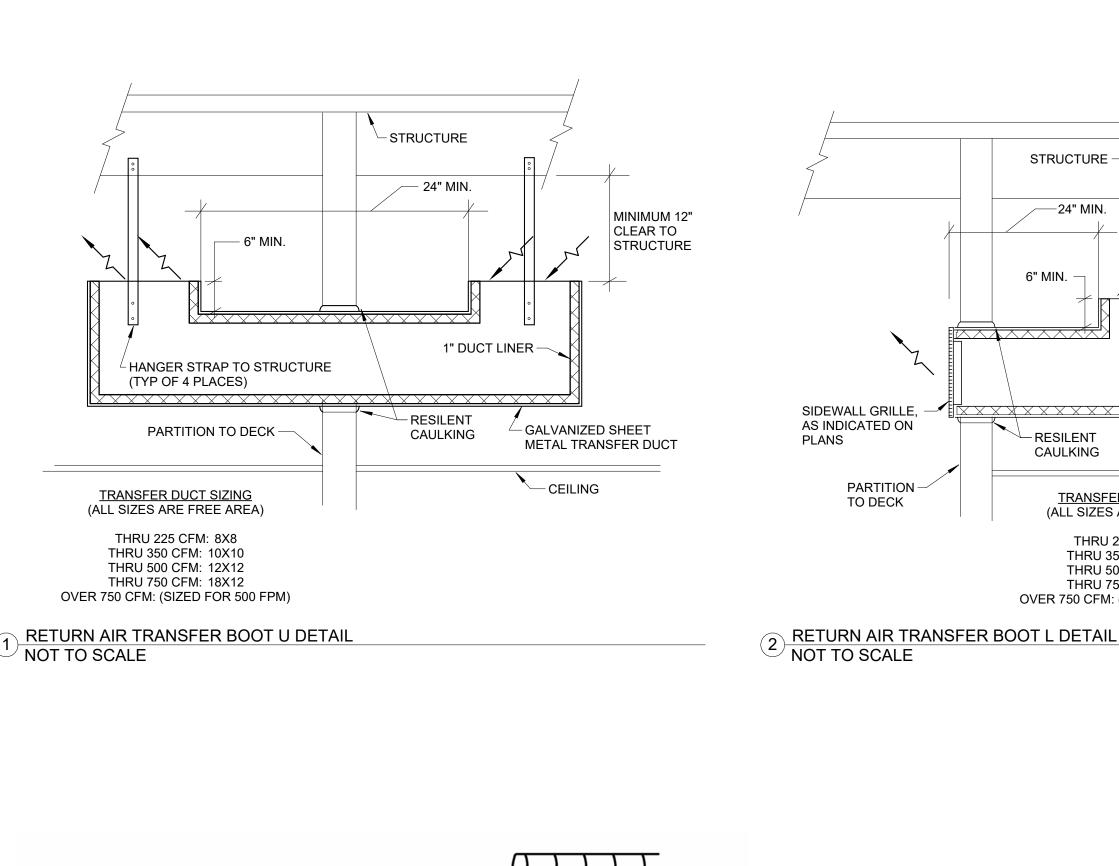
REVISIONS NO DESCRIPTION DATE

iM211B

LEVEL 1 MECHANICAL PIPING PLAN - DINING

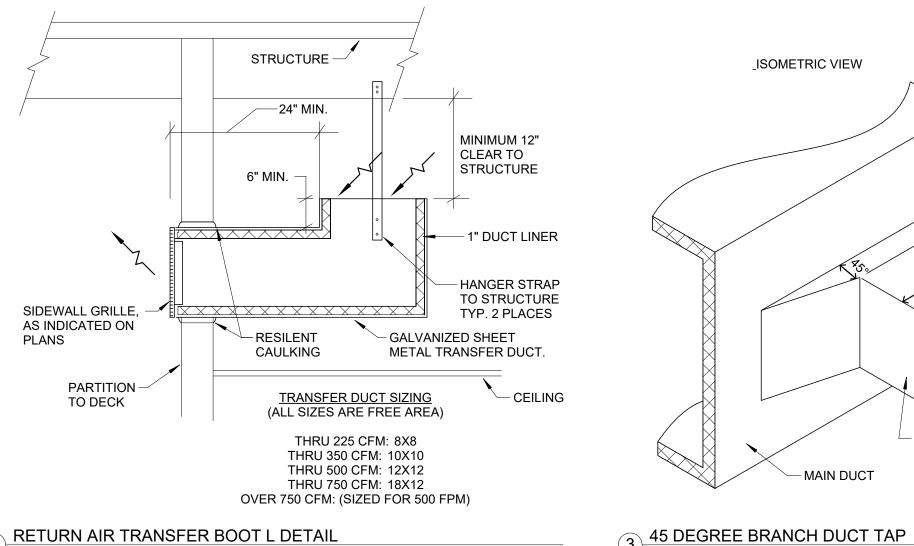
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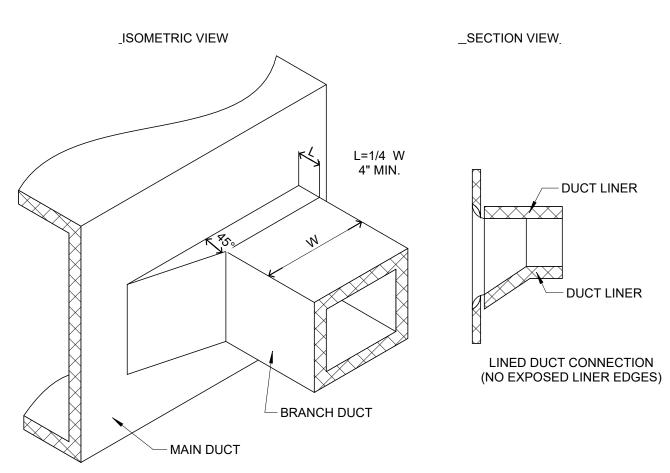


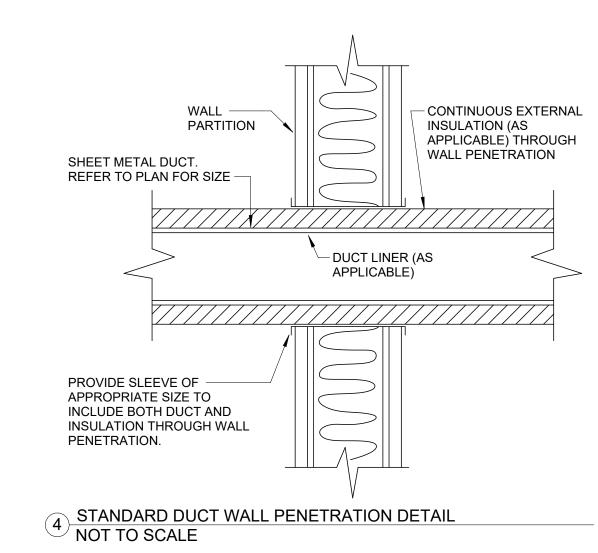


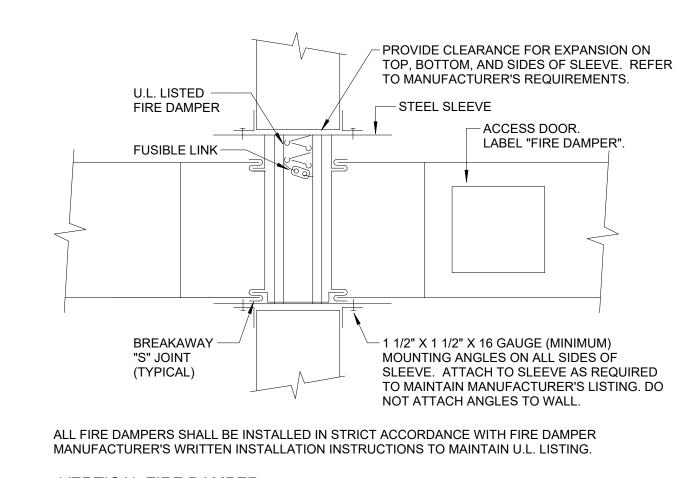
- WIDTH PLUS 1-1/2" ------

— WIDTH MINUS 1/4" —

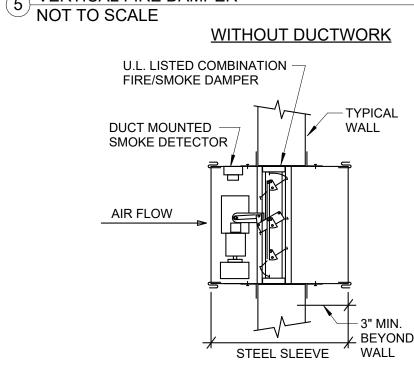


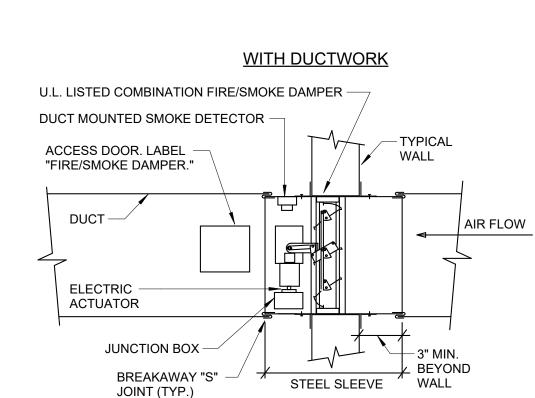






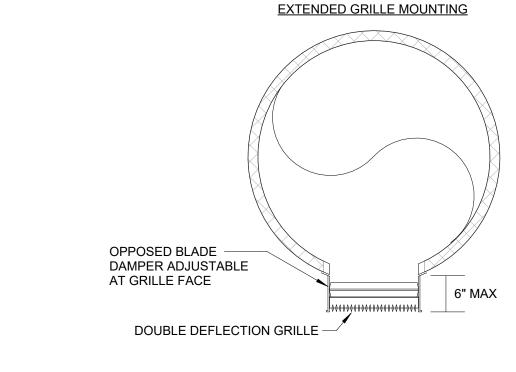




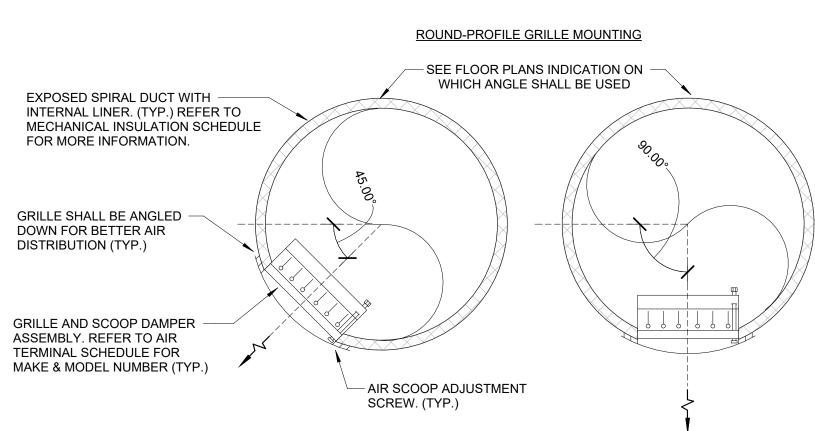


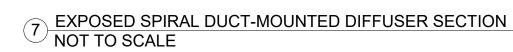
1. ALL FIRE DAMPERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH FIRE DAMPER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS TO MAINTAIN U.L. LISTING. 2. HORIZONTAL MOUNT SIMILAR. FIRE/SMOKE DAMPER DETAIL

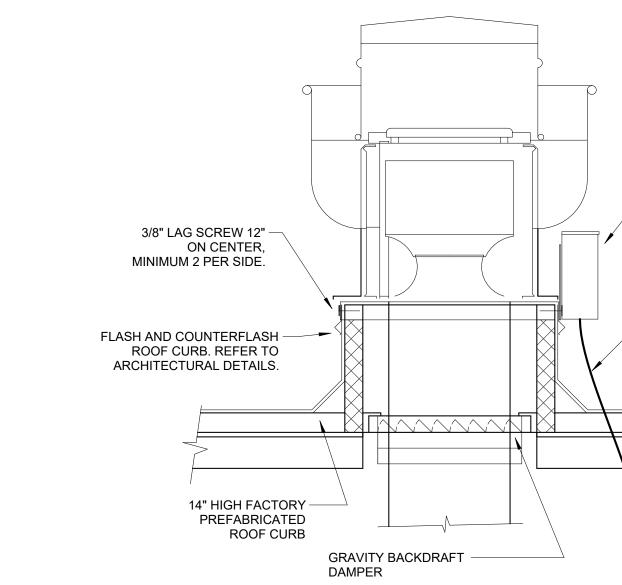
NOT TO SCALE



NOT TO SCALE







- RIGID DUCTWORK

1. THE 270-275 BOWDEN CABLE CONTROL SYSTEM IS DESIGNED FOR USE WITH EXTERNALLY CONTROLLED ROUND

OR RECTANGULAR DAMPERS AND CAN BE MOUNTED IN A WIDE VARIETY OF LOCATIONSINCLUDING CEILING

3. LOCKING RACK AND PINION GEAR DRIVE SHALL BE CONSTRUCTED OF 14 GAUGE STEEL AND SHALL BE USED TO

4. CONTROL SHAFT SHALL BE "D"-STYLE FLATTENED 1/4" DIAMETER WITH 265° ROTATION PROVIDING 1-1/2" LINEAR

JOISTS, LAY-IN CEILINGS, BEHIND GRILLES, ON OR INSIDE OTHER VARIOUS TYES OF DIFFUSERS, ETC.

2. CABLE SHALL CONSIST OF BOWDEN CABLE 0.054" STAINLESS STEEL CONTROL WIRE ENCAPSULATED IN 1/16"

830ACC RECTANGULAR OPPOSED BLADE DAMPER

FLEXIBLE CASING AND -

WIRE (50'-0" MAXIMUM)

LINEAR SLOT DIFFUSER —

FLEXIBLE GALVANIZED SPIRAL WIRE SHEATH.

CONVERT ROTARY MOTION INTO PUSH-PULL MOTION.

CONCEALED DAMPER OPERATOR IN-DIFFUSER DETAIL

WITH PLENUM BOX

270-275 BOWDEN CABLE CONTROL SYSTEM

TRAVEL CAPABILITY.

NOT TO SCALE

NO SCALE

NOTES:

- FLEXIBLE DUCTWORK

LOCKING RACK &

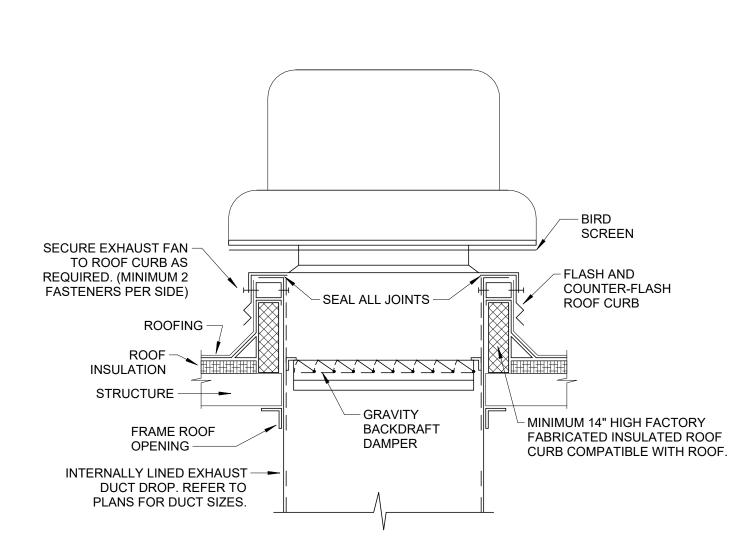
PINION OPERATOR —

SOCKET

WRENCH

- MOUNTING

BRACKET

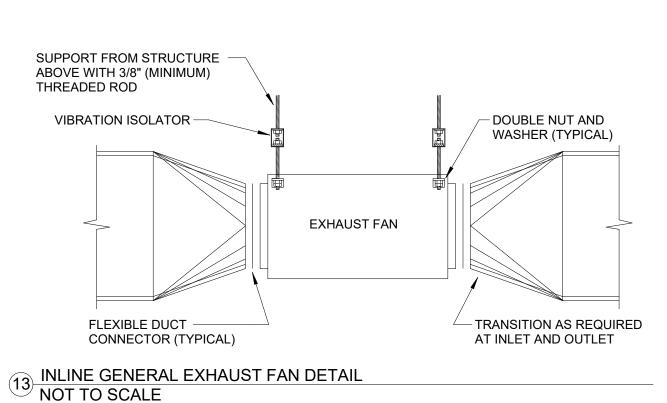


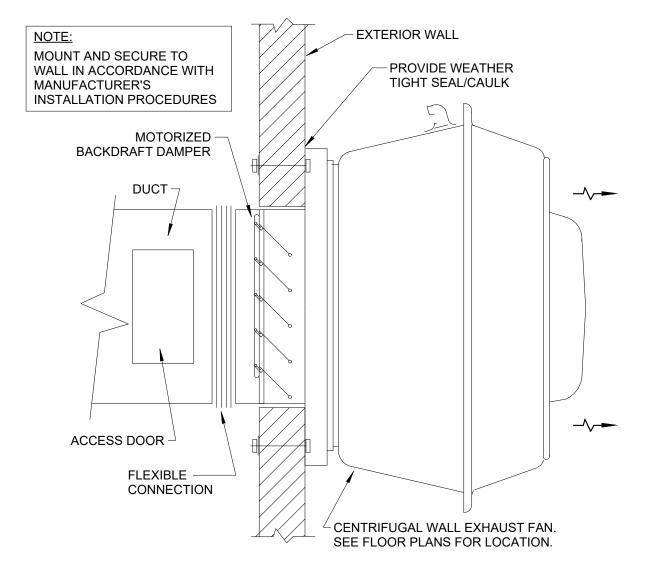
HEIGHT PLUS 1-3/4"

SPIRAL GRILLE DETAIL

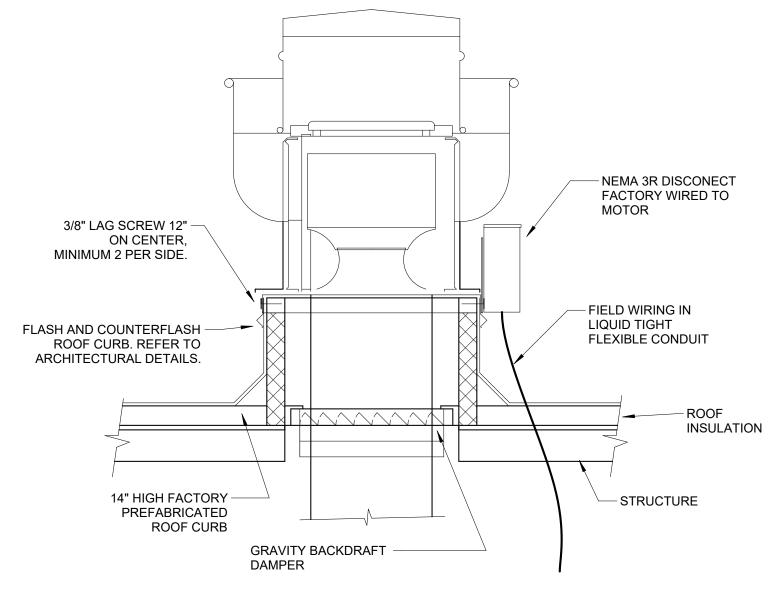
 $\stackrel{\smile}{\smile}$ NOT TO SCALE

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





SIDEWALL MUSHROOM EXHAUST FAN MOUNTING DETAIL NOT TO SCALE



ROOF MOUNTED UPBLAST GENERAL EXHAUST FAN DETAIL NOT TO SCALE



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MECHANICAL DETAILS -TreanorHL NO. HE0569.2302.0

DO NOT HANG PIPE LARGER THAN 3" FROM BOTTOM OF JOIST.

PROVIDE GALVANIZED STEEL SADDLE FOR ALL INSULATED PIPE LARGER THAN 3/4". VERIFY INSULATION THICKNESS WHEN SIZING HANGERS.

• PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. • DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES.

 TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES. HANGER SPACING FOR PIPE SIZE: COPPER: 4" = 12' 3" = 11' 2-1/2" = 10' 2" = 9' 1-1/2" = 7' 1" = 6' 3/4" = 6' 1/2" = 5'

CAST IRON: 10' AND ONE NEAR ALL JOISTS. STEEL: 4" = 14' 3" = 12' 2-1/2" = 11' 2" = 10' 1-1/2" = 9' 1" = 7' 3/4" = 6' 1/2" = 5'

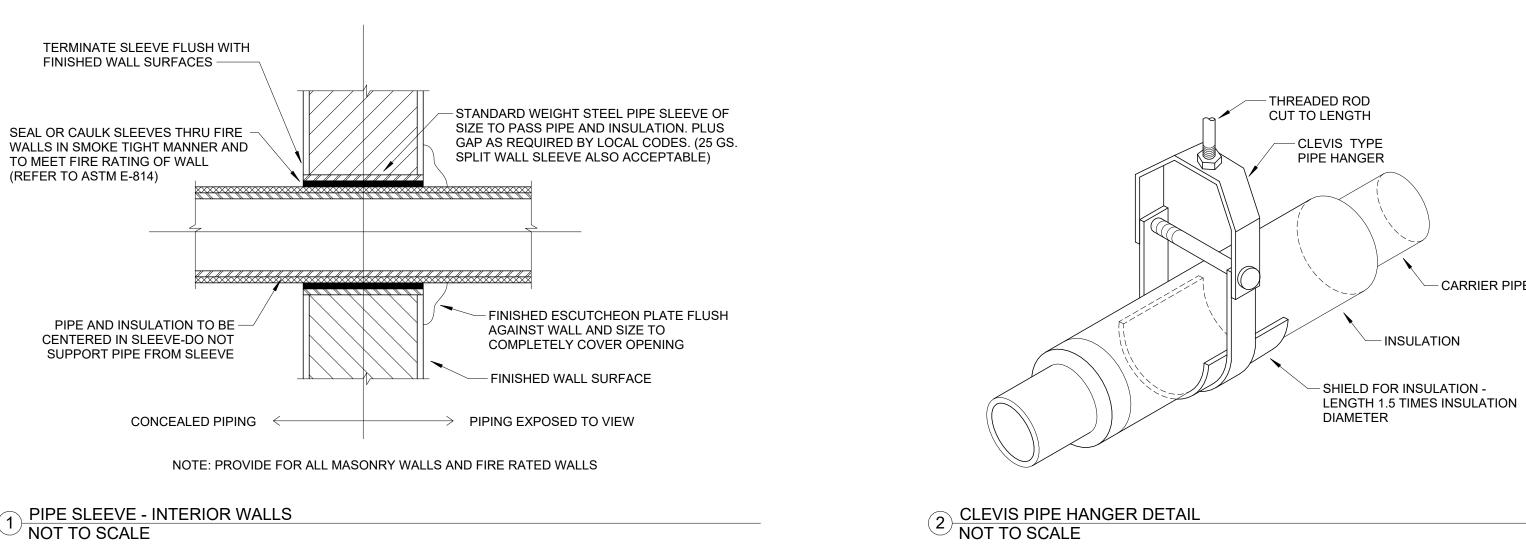
 PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED. LOCATE HANGERS TO TAKE LOAD OFF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY.

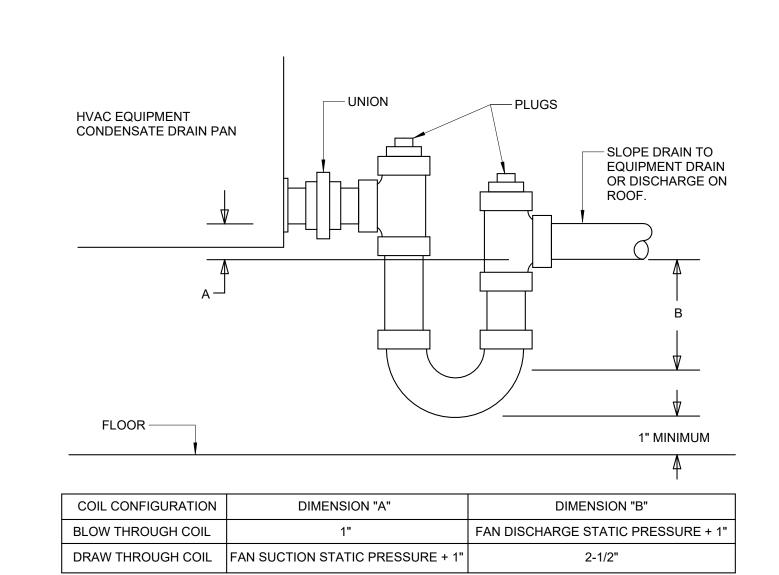
LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE.

 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.

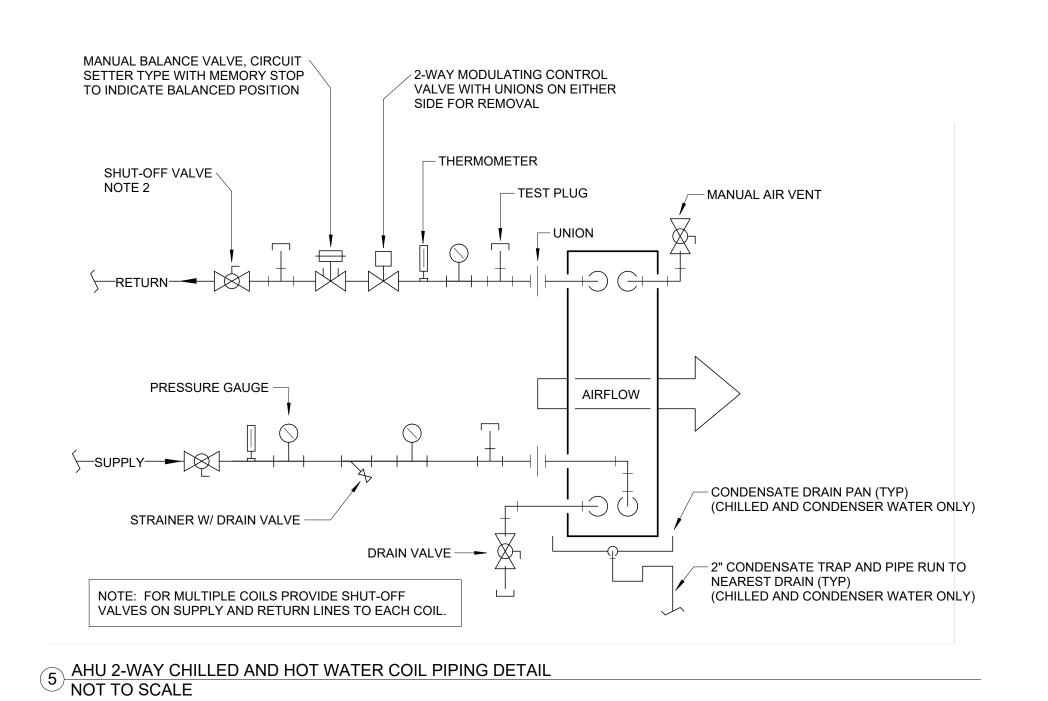
PIPE INSULATION/HANGER DETAIL NOT TO SCALE

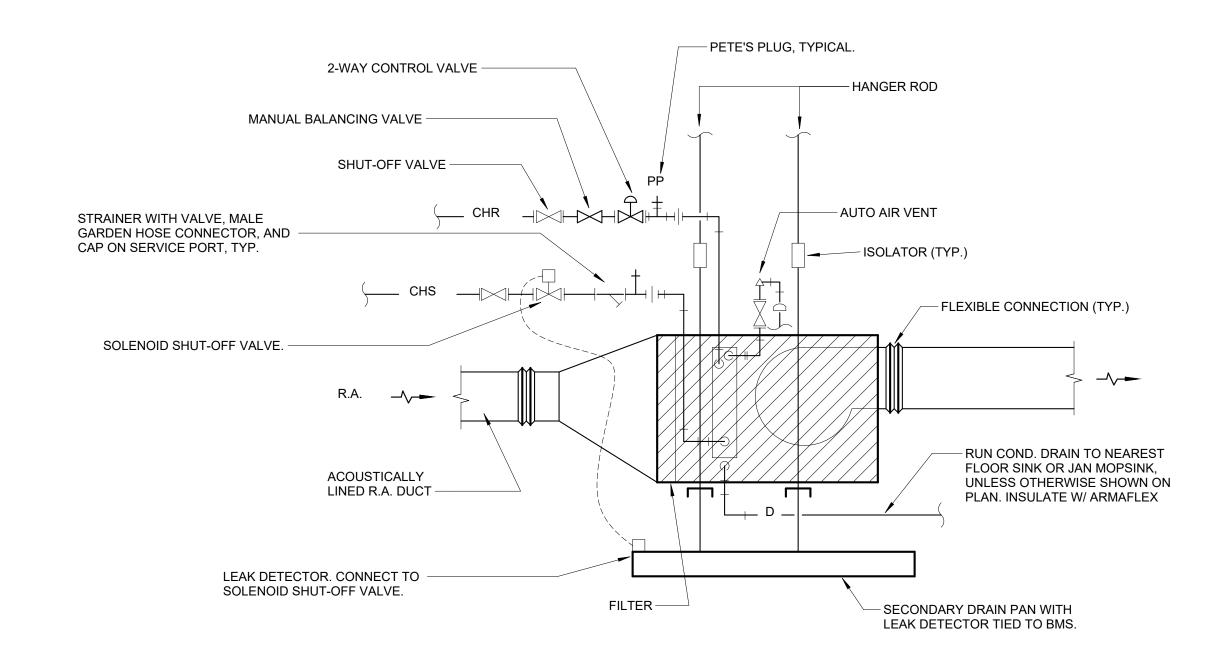
- CARRIER PIPE



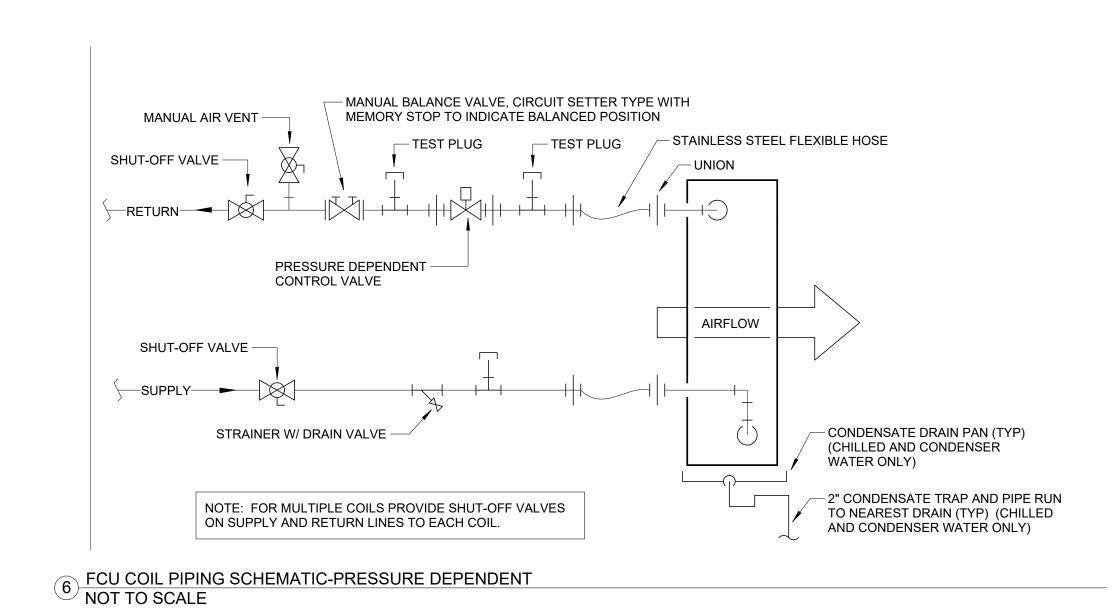


NOTE: MINIMUM "A" OR "B" DIMENSION SHALL NOT BE LESS THAN 1". 4 HVAC CONDENSATE TRAP DETAIL NOT TO SCALE





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





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iM502

MECHANICAL DETAILS -

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AT LEAST 0.055-INCH-THICK (NO. 16 MANUFACTURER'S STANDARD GAGE) BLACK STEEL OR STAINLESS AT LEAST 0.044 B. JOINTS AND SEAMS OF GREASE DUCTS: JOINTS AND SEAMS SHALL BE MADE WITH A CONTINUOUS LIQUID-TIGHT WELD OR BRAZE MADE ON THE EXTERNAL SURFACE OF THE DUCT SYSTEM. A VIBRATION ISOLATION CONNECTOR MAY BE USED, PROVIDED IT CONSISTS OF NON-COMBUSTIBLE PACKING IN A METAL SLEEVE JOINT OF APPROVED C. GREASE DUCT SUPPORTS: DUCT BRACING AND SUPPORTS SHALL BE OF NON-COMBUSTIBLE MATERIAL SECURELY ATTACHED TO THE STRUCTURE AND DESIGNED TO CARRY GRAVITY AND LATERAL LOADS WITHIN THE STRESS LIMITATIONS OF THE BUILDING CODE. BOLTS, SCREWS, RIVETS AND OTHER MECHANICAL FASTENERS SHALL NOT PENETRATE DUCT WALLS. D. PREVENTION OF GREASE ACCUMULATION: DUCT SYSTEMS SERVING A TYPE I HOOD SHALL BE SO CONSTRUCTED AND INSTALLED THAT GREASE CANNOT BECOME POCKETED IN ANY PORTION THEREOF, AND THE SYSTEM SHALL SLOPE NOT LESS THAN 1/4 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2% SLOPE) TOWARD THE HOOD OR TOWARD AN APPROVED GREASE RESERVOIR. WHERE HORIZONTAL DUCTS EXCEED 75' IN LENGTH, THE SYSTEM SHALL SLOPE NOT LESS THAN 1 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2% SLOPE) TOWARD THE HOOD OR TOWARD AN APPROVED GREASE RESERVOIR. WHEN A CENTRIFUGAL FAN IS USED IT SHALL BE POSITIONED SO THE DISCHARGE OUTLET IS EITHER VERTICAL OR BOTTOM HORIZONTAL WITH THE AIR SO DIVERTED THAT THERE WILL BE NO IMPINGEMENT ON THE ROOF, OTHER EQUIPMENT OR PARTS OF THE STRUCTURE. A VERTICAL DISCHARGE FAN SHALL BE MANUFACTURED WITH AN APPROVED DRAIN OUTLET AT THE BOTTOM OF THE HOUSING TO PERMIT DRAINAGE OF GREASE TO AN APPROVED COLLECTION DEVICE. E. CLEANOUTS AND OTHER OPENINGS: GREASE DUCT SYSTEMS SHALL NOT HAVE OPENINGS THEREIN OTHER THAN THOSE REQUIRED FOR PROPER OPERATION AND MAINTENANCE OF THE SYSTEM. ANY PORTION OF SUCH SYSTEM HAVING SECTIONS INACCESSIBLE FROM THE DUCT ENTRY OR DISCHARGE SHALL BE PROVIDED WITH ADEQUATE CLEANOUT OPENINGS. CLEANOUT OPENINGS SHALL BE EQUIPPED WITH TIGHT FITTING DOORS CONSTRUCTED OF STEEL HAVING A THICKNESS NOT LESS THAN THAT REQUIRED FOR THE DUCT. DOORS SHALL BE EQUIPPED WITH A SUBSTANTIAL METHOD OF LATCHING, SUFFICIENT TO HOLD THE DOOR TIGHTLY CLOSED. DOORS SHALL BE SO DESIGNED THAT THEY CAN BE OPENED WITHOUT THE USE OF A TOOL. PROVIDE CLEANOUTS IN ALL KITCHEN EXHAUST DUCTWORK AT EVERY CHANGE OF DIRECTION AND AT EVERY 12' OF HORIZONTAL DUCT. PROVIDE CEILING ACCESS PANELS AT ALL GREASE DUCT CLEANOUTS. REFER TO DETAIL 02, SHEET M0.01. F. DUCT ENCLOSURE: A GREASE DUCT SERVING TYPE I HOOD WHICH PENETRATES A CEILING, WALL OR FLOOR SHALL BE ENCLOSED IN A DUCT ENCLOSURE FROM THE POINT OF PENETRATION. A DUCT MAY ONLY PENETRATE EXTERIOR WALLS AT LOCATIONS WHERE UNPROTECTED OPENINGS ARE PERMITTED BY THE BUILDING CODE. DUCT ENCLOSURES SHALL BE CONSTRUCTED AS THE BUILDING CODE REQUIRES SHAFT ENCLOSURES TO BE CONSTRUCTED. DUCT ENCLOSURES SHALL BE OF AT LEAST ONE-HOUR FIRE-RESISTIVE CONSTRUCTION IN ALL BUILDINGS. THE DUCT ENCLOSURE SHALL BE SEALED AROUND THE DUCT AT THE POINT OF PENETRATION AND VENTED TO THE EXTERIOR THROUGH WEATHER-PROTECTED OPENINGS. THE ENCLOSURE SHALL BE SEPARATED FROM THE DUCT BY AT LEAST 3 INCHES AND NOT MORE THAN 12 INCHES AND SHALL SERVE A SINGLE GREASE EXHAUST DUCT SYSTEM. IF ALLOWED BY LOCAL CODE AUTHORITIES, TYPE I GREASE DUCTS MAY BE WRAPPED IN 2-HR UL RATED "FIREMASTER" OR APPROVED MANUFACTURERS GREASE DUCT FIRE PROTECTION SYSTEM, INSTALLED G. FIRE-RESISTIVE ACCESS OPENING: WHEN CLEANOUT OPENINGS ARE LOCATED IN DUCTS WITHIN A FIRE-RESISTIVE SHAFT OR ENCLOSURE, ACCESS OPENINGS SHALL BE PROVIDED IN THE SHAFT OR ENCLOSURE AT EACH CLEANOUT POINT. THESE ACCESS OPENINGS SHALL BE EQUIPPED WITH TIGHT-FITTING SLIDING OR HINGED DOORS WHICH ARE EQUAL TO FIRE-RESISTIVE PROTECTION TO THAT OF THE SHAFT OR ENCLOSURE. H. AIR VELOCITY: GREASE DUCT SYSTEMS SERVING A TYPE I HOOD SHALL BE DESIGNED AND INSTALLED IN A MANNER TO PROVIDE AN AIR VELOCITY WITHIN THE DUCT SYSTEM OF NOT LESS THAN 1500 FEET PER MINUTE AND NOT TO EXCEED 2500 FEET PER MINUTE. I. EXHAUST OUTLETS: EXHAUST OUTLETS FOR GREASE DUCTS SERVING COMMERCIAL FOOD HEAT-PROCESSING EQUIPMENT SHALL EXTEND THROUGH THE ROOF UNLESS OTHERWISE APPROVED BY THE BUILDING OFFICIAL. SUCH EXTENSION SHALL BE AT LEAST 2 FEET ABOVE THE ROOF SURFACE, AT LEAST 10 FEET FROM PARTS OF THE SAME OR CONTIGUOUS BUILDINGS, ADJACENT PROPERTY LINE OR AIR INTAKE OPENING INTO ANY BUILDING, AND SHALL BE LOCATED AT LEAST 10 FEET ABOVE THE ADJOINING GRADE LEVEL. J. EXCEPTIONS: EXHAUST OUTLETS FOR GREASE DUCTS SERVING COMMERCIAL FOOD HEAT-PROCESSING EQUIPMENT MAY TERMINATE NOT LESS THAN 5 FEET FROM AN ADJACENT BUILDING, ADJACENT PROPERTY LINE OR AIR INTAKE OPENING INTO A BUILDING, IF THE AIR FROM THE EXHAUST OUTLET IS DISCHARGED AWAY FROM SUCH

K. KITCHEN EXHAUST HOODS INCLUDING EXHAUST FANS, MAKE-UP AIR FAN, MOTORS, STARTERS, HEATERS AND CURBS - CONTRACTOR SHALL PROVIDE AND INSTALL MOTOR STARTERS, DRAIN LINES, CONTROLLERS, LIGHT AND

CONNECTIONS, PLACE IN OPERATION AND BALANCE THE SYSTEM. COORDINATE WORK WITH ALL TRADES INVOLVED.

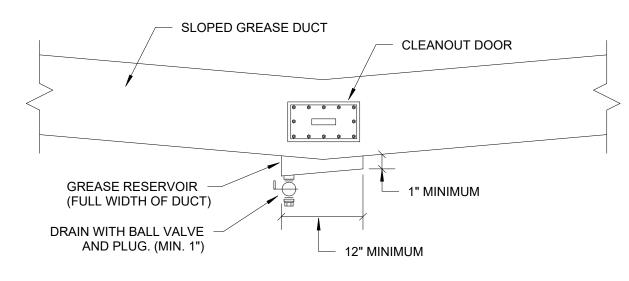
CONTROL WIRING, MECHANICAL ROUGH-IN AND CONNECTIONS, DUCTWORK, ELECTRICAL ROUGH-IN AND

A. GREASE DUCT MATERIALS: GREASE DUCTS AND PLENUMS SERVING A TYPE I HOOD SHALL BE CONSTRUCTED OF

NO SCALE -FIRE MASTER DUCT WRAP INSTALL PER MFRS. RECOMMENDATION FIRE MASTER DUCT-WRAP INSTALL PER MFRS. RECOMMENDATION PANEL CLEANOUT ACCESS PANEL AT ALL ELL'S 16 GA. ALL WELDED — SLOPE 1/4"/FT BACK TOWARD HOOD STEEL DUCT GREASE EXHAUST DUCTWORK SHALL BE FABRICATED OF 16 MINIMUM GAUGE THICKNESS, BLACK STEEL WITH ALL JOINTS WELDED.

1/8" = 1'-0"

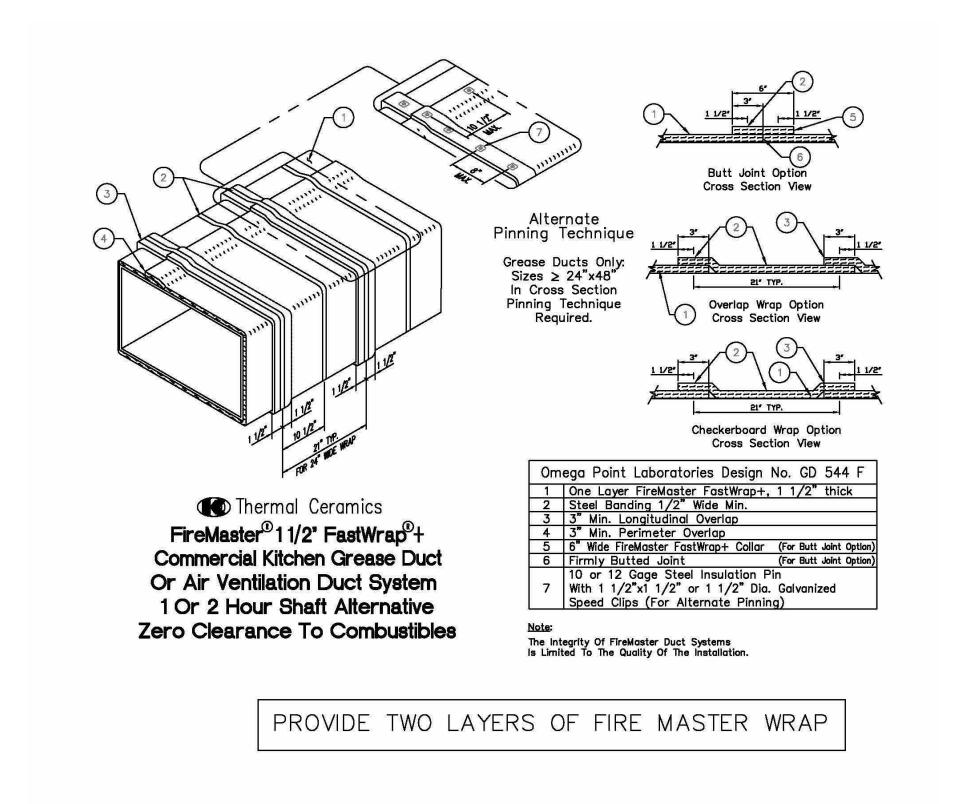




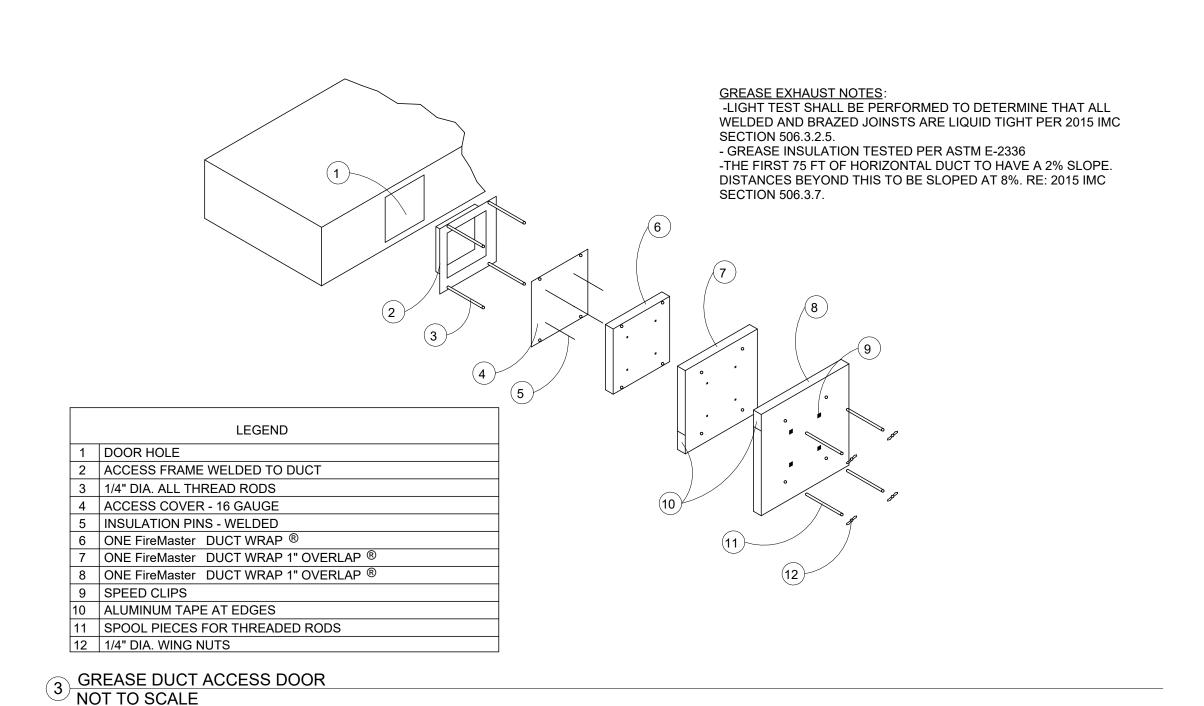
ELBOW UP RESERVOIR SLOPED GREASE DUCT VERTICAL GREASE DUCT CLEANOUT DOOR -GREASE RESERVOIR └─ 1" MINIMUM (FULL WIDTH OF DUCT) DRAIN WITH BALL VALVE AND PLUG. (MIN. 1")

12" MINIMUM

2 IMC SEC. 506.3.7.1 GREASE DUCT RESERVOIR DETAIL NOT TO SCALE



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



D. SCOTT BROWN

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iM503

MECHANICAL DETAILS -GREASE EXHAUST

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- SWITCH- MOTOR RATED SWITCH BY DIV. 26

- CONT. - CONTINUOUS OPERATION

(J) GREASE EXHAUST FAN SHALL BE UL-762 RATED FOR KITCHEN VENTILATION

- HOA - COMBINATION STARTER WITH HOA AND PILOT LIGHT IN COVER FURNISHED BY MANUFACTURER

- BMS/DVS - BUILDING AUTOMATION SYSTEM / EXHAUST HOOD DEMAND CONTROL VENTILATION SYSTEM

ACCESSORIES: (A) BACKDRAFT DAMPER

(E) SPRING ISOLATION

(B) BIRDSCREEN (F) INTERLOCK W/AHU SUPPLY FAN

(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 (C) PRE-WIRED NON-FUSED SERVICE DISCONNECT (H) INSULATED AND VENTED ROOF CURB 14" ABOVE FINISHED ROOF W/HINGED COVER (M)WALL MOOUNTING BRACKETS (D) PRE-WIRED NON-FUSED SERVICE DISCONNECT (NEMA 3R)

(N) HINGED ACCESS PANEL (O) VARIABLE FREQUENCY DRIVE (P) EC MOTOR (Q) FAN SPEED CONTROL

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.

			7	/AV BO	OXES V	WITH	HOT	WAT	ER R	EHEA	Ι		
DESIG	NATION				HEATIN	IG WATER	COIL PER	FORMAN	ICE			BASIS OF DES	IGN
TYPE	MARK	DESIGN COOLING CFM	MIN COOLING CFM	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

1) REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2) PROVIDE FIBER FREE LINER

. Provide AHU's with new VFDs.

3) ALL TERMINAL UNITS SHALL BE PROVIDED WITH SINGLE ROW COILS, UNLESS TWO ROWS ARE NEEDED TO ACHIEVE DESIRED BTUs. 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	ED WA	ATER	R FAN C	OIL (UNIT S	CHEDUL	.E											
DESIGNATION													ı	MECHA	NICA	\L												ELEC1	RICAL
				SUPPLY	/ FAN					CC	OOLING	G CO	IL					Р	REH	IEAT COIL			FINAL FILTER	BASIS OF	DESIGN				i I
			ESP			HP OF				EA	T °F	LA	T °F								EW					ACCESSO			İ
			(IN	FAN	NUMBER				SENSIBLE						EW	/T LW	T TOTA	II.		AT	T	LWT		MANUFACT		RIES (SEE			İ
TYPE MARK	SERVES	CFM	W.G.)	TYPE	OF FANS	FAN	CFM	MBH	MBH	DB	WB	DB	WB	GPM	(°F	⁻) ∣ (°F) L MBI	d oF DE	B ∣°F	DB GPM	(°F)	(°F)	DEPTH MERV	URER	MODEL	BELOW)	(LBS)	VOLT	PH
FCU K1-1	KITCHEN RESTROOM	400	0.35	ECM	1	0.5	65	12	10	79	64	55	54	2	45	5 57	10	61	8	85 1	180	160	2 8	PRICE	FCGH	SEE BELOW	75	208	1

PROVIDE NON-LOCKING FUSED DISCONNECT, VARIABLE SPEED ECM MOTOR - SPEED TO BE CONTROLLED BY BMS, 2-WAY CHILLED WATER AND HEATING WATER MODULATING CONTROL VALVE(24V) TO BE 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.

	EXISTING TAB AHU INFORMATION																				
DESIG	DESIGNATION MECHANICAL																				
	SUPPLY COOLING COIL													REHEAT COIL							
		SERVES		MIN OA	MAX OA	EA	T °F	LA	Γ°F		EWT	LWT	EAT	LAT		EWT	LWT				
TYPE	MARK		CFM	CFM	CFM	DB	WB	DB	WB	GPM	(°F)	(°F)	°F DB	°F DB	GPM	(°F)	(°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				

DESIG	NATION			ME	CHANIC	AL				
				SUPPLY FAN	PREHEAT COIL					
TYPE	MARK	SERVES	LOCATION	CFM	TOTAL MBH	EAT °F DB	LAT °F DB	GPM	EWT (°F)	LWT (°F)
PHC	1-2	E-AHU-A1-5	OA DUCT	7952	235	7	40	11.8	180	140

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

				_						
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
E2	EXHAUST	PERFORATED	LAY-IN	STEEL	NO	SEE NOTE 8	YES	SURFACE	TITUS PAR - 12"X12" FACE	SEE NOTE 11

YES

SURFACE | TITUS FL-HT

SURFACE | TITUS FL-HT

SEE NOTE 1,5

SEE NOTE 1,5

GRILLES-REGISTERS-DIFFUSERS

F1 SUPPLY

1) NECK SIZES AS FOLLOWS:

DESIGNATION "A" DESIGNATION "F" CFM RANGE 000 - 100

8"Ø 10"Ø 000 - 250 6"Ø / FL-10 101 - 150 4'-0" 251 - 400 8"Ø / FL-10 12"Ø 151 - 210 8"Ø / FL-20 4'-0" 401 - 550 4'-0" 4'-0" 551 - 700 211 - 255 10"Ø / FL-30 12"Ø / FL-30 256 - 350

LINEAR SLOT GYP BD CLG ALUMINUM NO

GYP BD CLG ALUMINUM NO

2) SIZE PER PLANS

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

LINEAR SLOT

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

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.



TRE

©2023 | Purdy - McGuire Mechanical - Electrical Engine 17300 North Dallas Parkw Tel: 972/239-5357 Fax: 972/239-5231 www.purdy-mcguire.com SCOTT BROWN,

PROJECT MGR. MITCHELL HENTON MITCHELL HENTON IECHANICAL CHRIS WOODYARD JOHN KNOWLES LUMBING LECTRICAL HIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJEC OTED IN THE TITLE BLOCK, WITHOUT THE RITTEN CONSENT OF PURDY-McGUIRE, INC

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REVISIONS O DESCRIPTION DATE

MECHANICAL

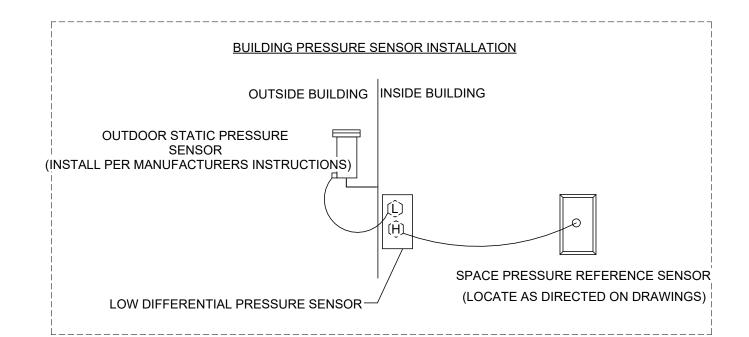
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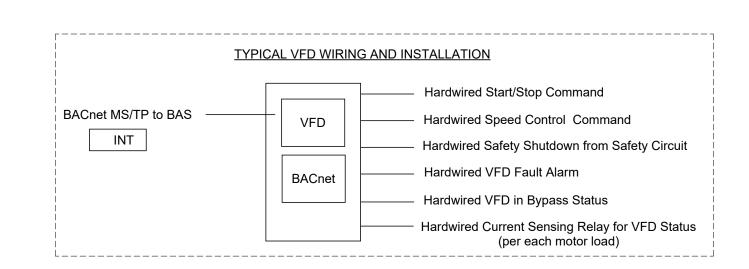
BUILDING AUTOMATION / CONTROLS GENERAL NOTES:

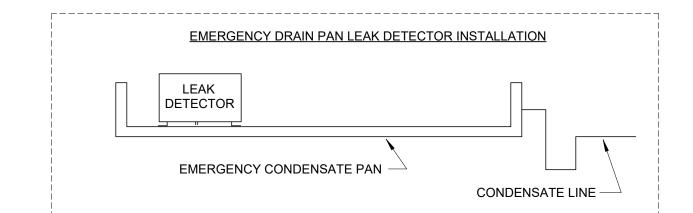
A. GENERAL NOTES APPLY TO ALL MECHANICAL CONTROLS SHEETS. B. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES & REGULATIONS. MECHANICAL CONTROLSDRAWINGS ARE SCHEMATIC IN NATURE. EXACT LOCATIONS OF DUCTWORK, PIPING, AND EQUIPMENT, INCLUDING REQUIRED CLEARANCES FOR FLOWSTATIONS, TO BE COORDINATED WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS. THIS CONTRACTOR IS RESPONSIBLE FOR FIRE STOPPING AT ALL MECHANICAL PENETRATIONS OF FIRE AND SMOKE RATED STRUCTURES, FLOORS AND PARTITIONS. REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATIONS OF ALL RATED STRUCTURES.

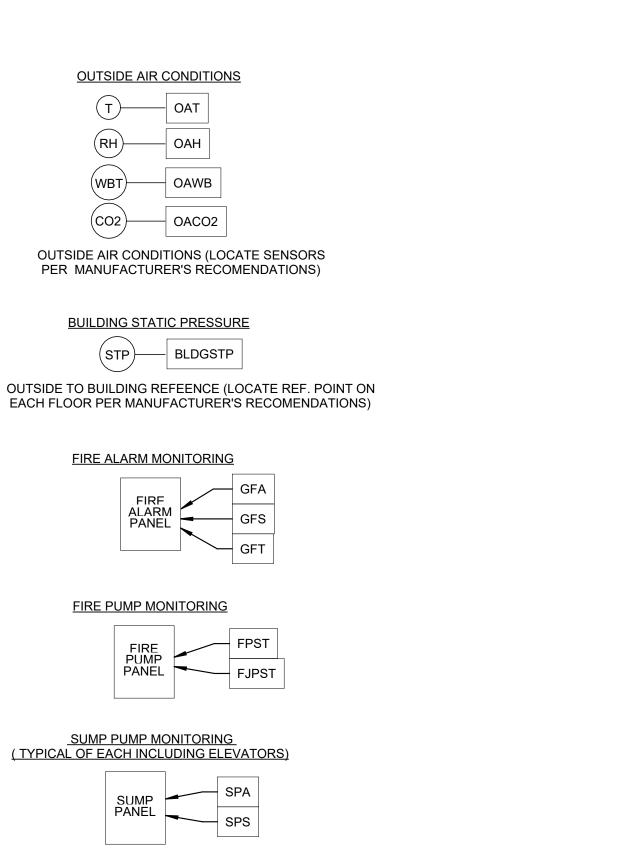
CONTRACTOR TO VERIFY ALL FEILD CONDITIONS PRIOR TO ORDERING ANY MATERIALS AND/OR EQUIPMENT OR BEGINNING ANY WORK WITHOUT AUTHORIZATION. THERMOSTATS TO BE MOUNTED 48" ABOVE FINISHED FLOOR LEVEL UNLESS NOTED OTHERWISE ON THE PLANS. CONTRACTOR TO VERIFY ALL THERMOSTATS LOCATIONS WITH ARCHITECT/ENGINEER PRIOR TO

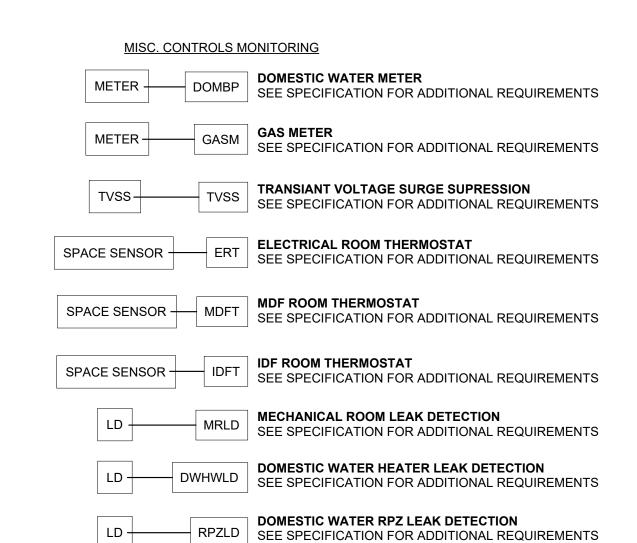
G. ELECTRICAL DIVISION 26 CONTRACTOR TO PROVIDE J-BOX AND CONDUIT TO ACCESSIBLE CEILING FOR ALL T-STATS SHOWN ON PLANS. COORDINATE LOCATIONS OF T-STATS WITH ELECTRICAL DIVISION 26 CONTRACTOR. H. IF CONTROLS POINTS LIST CALLS FOR TRENDING, SET THE ANALOG VALUES UP FOR 10MIN (ADJ.) TREND INTERVALS TRENDS AND THE BINARY VALUES TO BE TRENDED BY CHANGE OF VALUE.

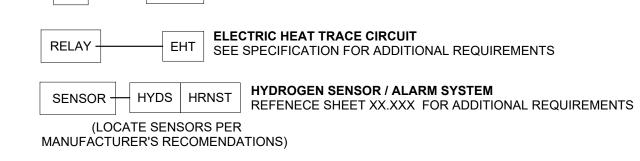












SENSOR PGNO PGCO PARKING GARAGE SENSOR / ALARM SYSTEM REFENECE SHEET XX.XXX FOR ADDITIONAL REQUIREMENTS (LOCATE SENSORS PER MANUFACTURER'S RECOMENDATIONS)

BUILDING SPACE CO2 SENSOR SENSOR SPC02 REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS (LOCATE WHERE SHOWN ON PLANS)

Integration to 3rd Party Systems to the BMS

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

The BMS shall integrate to the following systems:

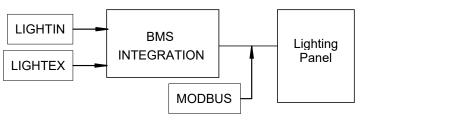
- 1. Air Handling Unit (integrate to each one) . Interior and Exterior Lighting Controls (integrate to each one)
- Packaged Unit Controller (integrate to each one)
- 1. Fan Coil Units (integrate to each one) 5. RO system including water level
- 6. Kitchen water heaters and their leak detection
- 7. Smart Thermostat (integrate to each one)

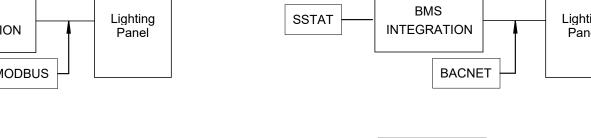
Miscellaneous Monitoring and Alarms:

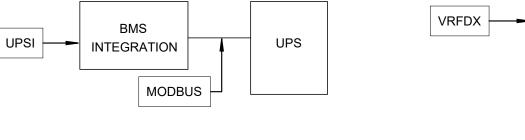
- The BMS shall monitor/alarm the following points: 1. Humidity, CO2, Enthalpy (calculated), and Wet Bulb Temperature of the Outside Air. 2. Building Static Pressure (one on each floor referencing space and outside conditions via proper sensing
- devices and surge dampeners as necessary) 3. Fire Pump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

						1	
GEN	BMS INTEGRATION	A	Generator	PACKAGED	BMS INTEGRATION	<u> </u>	Generator
	MODBU	s			BACNE	T	
ELECSG	BMS INTEGRATION	.	Main Switchboard	RTU	- BMS INTEGRATION		- Main Switchboard



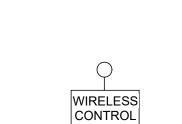








DOMBP	BMS INTEGRATION	†	Dom. Water Pump Panel	
	MODB	us		

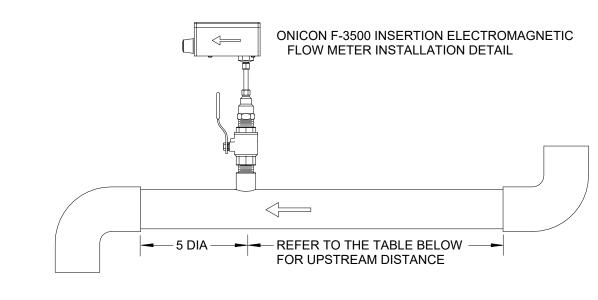


INTEGRATION

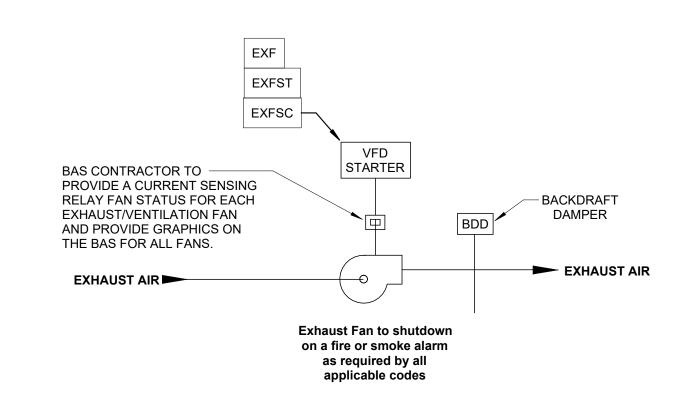
BACNET

UPS

CRAC



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



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

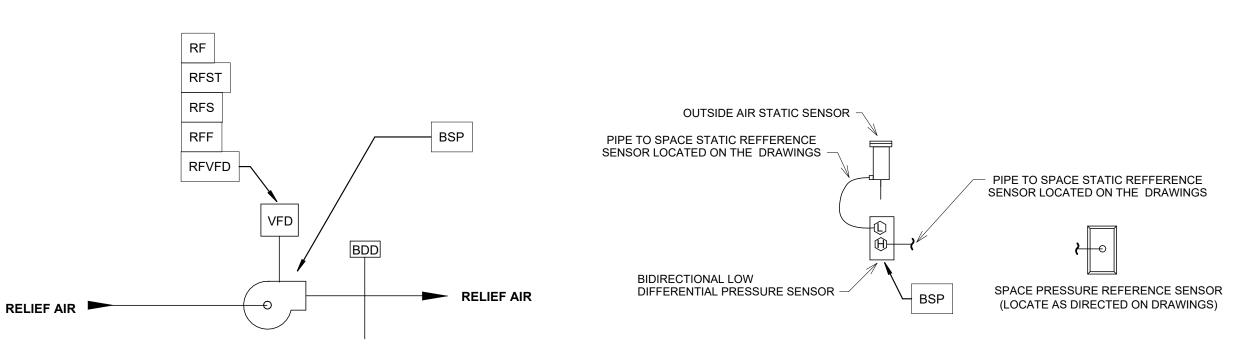
Fan in Hand: Commanded off, but the status is on.

Fan in Hand: Commanded off, but the status is on.

Dishmachine Exhaust Fan Sequence (KEF-1 and KEF-2): The fan shall be interlocked to run anytime the dishmachine is in operation. Fan shall operate with a 15 minute time delay to remain on for 15 minutes after the dishmachine is turned off (adj.) The fan shall shut down on a fire or smoke alarm event as determined by all applicable codes. Alarms shall be provided as follows: Fan Failure: Commanded on, but the status is off.

EXHAUS	EXHAUST 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					

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



Relief Fan Building Pressure Control: The building management system shall monitor the kitchen grease exhaust fan, GEF-1, and shall only run the relief fan when GEF-1 is not running. The controller shall measure associated building static pressure and modulate the relief fan VFD speed to maintain a building static pressure setpoint of + 0.03 - 0.05 in

H2O (adj.). The relief fan VFD speed shall not drop below 20hz (adj.) when in operation. Alarms shall be provided as follows: • Relief Fan Failure: Commanded on, but the status is off. • Relief Fan in Hand: Commanded off, but the status is on. • Relief Fan Runtime Exceeded for Maintenance: Status runtime exceeds a user definable limit (adj.).

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 Command					
RFST	Relief Air Fan Status					
RFVFD	Variable Frequency Drive Control Integration					

OUTSIDE STATIC AND SPACE STATIC REFERENCE SENSORS PROVIDED BY BAS CONTRACTOR AND INSTALLED BY THE BAS CONTRACTOR PER MANUFACTURERS RECOMMENDATIONS. BAS CONTRACTOR TO ENSURE PROPER TUBBING SIZES ARE USED PER EACH INSTALLATION.

7 RELIEF FAN WITH BACKDRAFT DAMPER CONTROLS (TYPICAL OF EACH)
NOT TO SCALE

Relief Fan VFD Fault.

D. SCOTT BROWN 89097 O. CENSEO 1-30-2025

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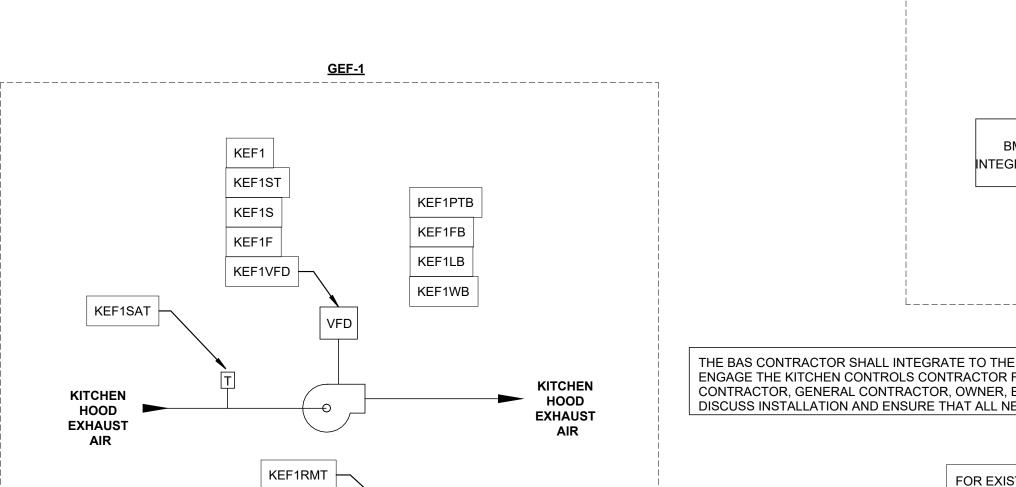
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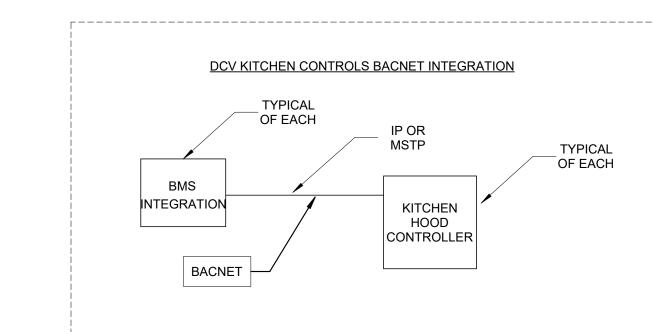
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iM701 CONTROLS DETAILS

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**** MONITOR EACH SMOKE DETECTOR AND PROVIDE SHUTDOWN OF EQUIPMENT AS EQUIPMENT REQUIRES SMOKE DETECTION PER ALL APPLICABLE CODES ****





THE BAS CONTRACTOR SHALL INTEGRATE TO THE KITCHEN HOOD MANUFACTURER'S DCV CONTROL SYSTEM. IT IS THE RESPONSIBILITY OF THE BAS CONTRACTOR TO ENGAGE THE KITCHEN CONTROLS CONTRACTOR FOR FULL BACNET POINTS LIST FOR INTEGRATION. THE BAS CONTRACTOR, ELECTRICAL CONTRACTOR, MECHANICAL CONTRACTOR, GENERAL CONTRACTOR, OWNER, ENGINEER, AND KITCHEN HOOD REPRESENTATIVE SHALL MEET DURING THE SUBMITTAL PHASE OF THE PROJECT TO DISCUSS INSTALLATION AND ENSURE THAT ALL NECESSARY COMPONENTS ARE INCLUDED FOR INTEGRATION AND CONTROL.

> 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 WITH NEW VFD. VERIFY IF EXISTING RELIEF FAN HAS A VFD, IF SO REPLACE EXISTING RELIEF AIR FAN VFD WITH NEW VFD. IF EXISTING RELIEF FAN DOES NOT HAVE A VFD REPLACE RELIEF FAN MOTOR WITH A VFD COMPATIBLE MOTOR AND PROVIDE A VFD FOR RELIEF FAN.

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.

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

DCV Laundry Room MAU Controls

BACNET

KEF1F

KEF1FB

KEF1FB

KEF1LB

KEF1PTB

KEF1PTB

KEF1RMT

KEF1RMT

KEF1S

KEF1SAT

KEF1SAT

KEF1ST

KEF1VFD

KEF1VFD

KEF1WB

MAU1AFDP

MAU1CCT

MAU1CCV

MAU1CCV

MAU1CCVF

MAU1ESWC

MAU1ESWC

MAU1ESWO

MAU1ESWO

MAU1F

MAU1FRZ

MAU1FRZ

MAU1LSP

MAU10AID

MAU10AID

MAU10AT

MAU1PHV

MAU1PHVF

MAU1SAT

MAU1SAT

MAU1SSD

MAU1SSD

MAU1ST

MAU1VFD

Point Name

BACnet Integration

BACnet Integration

KEF1 Fan Start/Stop KEF1 Fan Start/Stop

KEF1 Fan VFD Fault

KEF1 Fan VFD Fault

KEF1 Fan Button

KEF1 Fan Button

KEF1 Lights Button

KEF1 Lights Button

KEF1 Prep Time Button

KEF1 Prep Time Button

KEF1 Space/Room Temp

KEF1 Space/Room Temp

KEF1 Fan VFD Speed Command

KEF1 Fan VFD Speed Command

KEF1 Supply Air Temp

KEF1 Supply Air Temp

KEF1 Fan VFD Fault

KEF1 Fan VFD Fault

KEF1 Variable Frequency Drive Control

KEF1 Variable Frequency Drive Control

KEF1 Wash Button

KEF1 Wash Button

MAU1 Fan Start/Stop

MAU1 Fan Start/Stop

MAU1 Air Filter Differential Pressure

MAU1 Air Filter Differential Pressure

MAU1 Cooling Coil Air Temp

MAU1 Cooling Coil Air Temp

MAU1 Cooling Coil Valve

MAU1 Cooling Coil Valve

MAU1 Cooling Coil Valve Feedback

MAU1 Cooling Coil Valve Feedback

MAU1 End Switch on Closed

MAU1 End Switch on Closed

MAU1 End Switch on Open

MAU1 End Switch on Open

MAU1 Suply Air Fan VFD Fault

MAU1 Suply Air Fan VFD Fault

MAU1 Freeze Stat Safety

MAU1 Freeze Stat Safety

MAU1 Low Static Saftey

MAU1 Low Static Saftey

MAU1 Outside Air Isolation Damper

MAU1 Outside Air Isolation Damper

MAU1 Outside Air Temp

MAU1 Outside Air Temp

MAU1 Preheat Temp

MAU1 Preheat Temp

MAU1 Preheating Valve

MAU1 Preheating Valve

MAU1 Preheating Valve Feedback MAU1 Preheating Valve Feedback

MAU1 Fan VFD Speed Command

MAU1 Fan VFD Speed Command

MAU1 Supply Air Temp

MAU1 Supply Air Temp

MAU1 Supply Air Smoke Detector

MAU1 Supply Air Smoke Detector

MAU1 Fan VFD Fault

MAU1 Fan VFD Fault

MAU1 Variable Frequency Drive Control

MAU1 Variable Frequency Drive Control

Integration

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.

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

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.

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

MANUFACTURER RECOMMENDATIONS.

SUPPLY AIR TEMPERATURE: 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. SUPPLY FAN VFD FAULT

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

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.

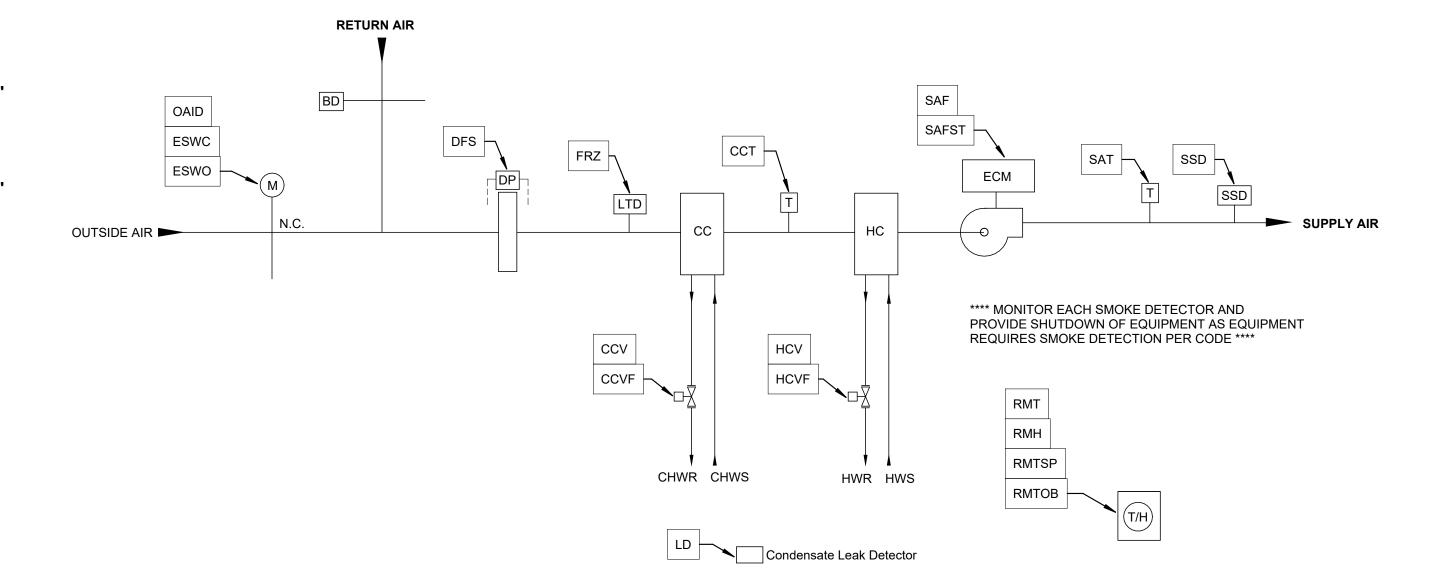
THE HEATING COIL SHALL BE ENABLED WHENEVER: \cdot THE SUPPLY AIR TEMPERATURE IS BELOW SUPPLY AIR HEATING TEMPERATURE SETPOINT.

· 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

**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

DCV KITCHEN MAU AND KEF CONTROLS (TYPICAL OF EACH) NOT TO SCALE



Supply Air Temp Cooling Coil Valve Feedback Heating Coil Valve Feedback Space/Room Humidity Space/Room Temp Space/Room Temp Local Setpoint Adjust Supply Air Temp Cooling Coil Valve HCV Heating Coil Valve Dirty Filter Switch Alarm End Switch on Closed End Switch on Open Freeze Stat Safety Leak Detector RMTOB Space/Room Temp OCC Override Button

Suply Air Fan Status

Supply Air Smoke Detector

Outside Air Isolation Damper Suply Air Fan Start/Stop

FAN COIL UNIT - HC/CC CONTROLS POINTS

Fan Coil Unit - Heating and Cooling Coils (Typical of each)

The unit shall run according to a owner/operator definable time schedule in the following modes: -Occupied Mode: The unit shall maintain

A 75°F (adj.) cooling setpoint. A 70°F (adj.) heating setpoint.

-Unoccupied Mode (night setback): The unit shall maintain

A 85°F (adj.) cooling setpoint. A 55°F (adj.) heating setpoint.

Alarms shall be provided as follows:

 High Zone Temp: If the zone temperature is greater than the cooling setpoint by 2°F (adj.). Low Zone Temp: If the zone temperature is less than the heating setpoint by 2°F (adj.).

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 setpoints listed above in the occupied mode.

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 schedule.

The unit shall shut down and generate an alarm upon receiving a freezestat status. Freeze Stat is to be set to trip at 38°F (adj.)

The unit shall shut down and generate an alarm upon receiving a smoke detector status (as required by code).

The fan shall run anytime the unit is commanded to run, unless shutdown on safeties.

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

The cooling shall be enabled whenever:

 The zone temperature is above cooling setpoint. AND the fan is on. The cooling coil valve shall open whenever the freezestat is on.

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. AND the fan is on.

The heating coil valve shall open whenever the freezestat is on.

The outside air damper shall be open to a position set by the TAB contractor (adj.) to maintain the design occupied OA cfm during building occupied hours and be closed during unoccupied hours. The TAB contract shall adjust the manual balancing damper as necessary to achieve design OA cfm requirements.

• Filter Change Required: Filter differential pressure exceeds the filer manufacturer's limit (adj.) for clean filter tolerances.

Filter Differential Pressure Monitor:

controller shall monitor the differential pressure across the filter. Alarms shall be provided as follows:

<u>Discharge Air Temperature:</u> The controller shall monitor the discharge air temperature.

Alarms shall be provided as follows: • Low Discharge Air Temp: If the discharge air temperature is less than 40°F (adj.).

The controller shall monitor the fan status via a current sensing relay. Alarms shall be provided as follows:

 Fan Failure: Commanded on, but the status is off. Fan in Hand: Commanded off, but the status is on.

• Fan Runtime Exceeded: Fan status runtime exceeds the manufacturer's limit (adj.) for proper maintenance intervals. The controller shall monitor the leak detector and shutdown the Fan and close the HW and CHW valves upon sensing a leak.

When leak detector is normal, the FCU shall go back to the scheduled operation. Alarms shall be provided as follows: Leak Detection: Leak present and leak detector is tripped.

FAN COIL UNIT WITH REHEAT CONTROLS (TYPICAL OF EACH) NOT TO SCALE

SAFST

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REVISIONS DESCRIPTION DATE

iM702

MAU & FCU

CONTROLS DETAILS

reanorHL NO. HE0569.2302.0

Single Zone Air Handling Unit (Preheat/Chilled Water/Hot Water Reheat):

• The unit is to have supply fan, hot water coil, chilled water coil and outside air damper. The Control System Contractor to provide a dedicated stand-alone DDC controller for each unit. Each DDC controller shall be located in a NEMA 1 enclosure near the unit in the corresponding mechanical room. Each DDC controller should have battery back-up sufficient to retain any controls databases or algorithm, and ensure controller uptime on a potential loss of primary power. Each DDC controller serving a AHU should have its own UPS to ensure smooth transitions to and from emergency power and allow for proper execution of programs and control.

The EMCS optimum start/stop schedule defines the occupied/unoccupied mode of operation.

• The supply fan runs continuously in occupied Mode. Cooling mode: Supply fan shall operate at 50% of maximum airflow (VFD speed to be determined by TAB) at start up and if cooling set point temperature can not be maintained or acheived then the fan shall operate at 100% maximum airflow. Heating mode: Supply fan shall operate at 50% of maximum airflow (VFD speed to be determined by TAB) at start up and if heating set point temperature can not be maintained or acheived then the fan shall operate at 100% maximum airflow.

Temperature Control: Warm-up or Cool-down:

- The EMCS determines the required warm-up or cool-down period based on the optimized start algorithm. • Upon enabling the unit, the unit heats and cools as required to maintain the occupied heating and cooling setpoints (initially 70°F heating, 74°F cooling) as sensed by a space temperature sensor.
- During warm-up, the supply air discharge temperature is 90°F (adjustable). During cool-down, the supply air temperature • Once the occupied setpoint temperature threshold has been reached, the EMCS switches the unit to the occupied mode. Occupied Mode:
- ReHeating Coil: The heating valve modulates to maintain to maintain occupied mode heating space setpoint temperature. Heat coil disables when ambient outside air temperature is above 65°F (adj.) or if unit is not in dehumidification mode (reheat coil to be enabled if in dehumidification mode.) Cooling Coil: The chilled water valve modulates to maintain occupied mode cooling space setpoint temperature. Unoccupied Mode:
- ReHeating Coil: The heating valve modulates to maintain to maintain unoccupied modeheating space setpoint temperature. Heat coil disables when ambient outside air temperature is above 65°F (adj.) or if unit is not in dehumidification mode (reheat coil to be enabled if in dehumidification mode.)
- Cooling Coil: The chilled water valve modulates to maintain unoccupied mode cooling space setpoint temperature. Outside Air Damper Control:

 Warm-up or Cool-down: The outside air damper to be closed. Occupied mode:

- When in the occupied mode AND when GEF-1 is running, the DDC controller shall open the OA damper(s) to the Design MAX Ventilation CFM position (adj.). TAB shall provide the damper position that matches the MAX Design Ventilation • When in the occupied mode AND when GEF-1 is NOT running, the DDC controller shall back the OA damper(s) down to the Design MIN Ventilation CFM position (adj.). TAB shall provide the damper position that matches the MIN Design Ventilation CFM required. The OA damper shall not be allowed to drop below the minimum position when in occupied
- Unoccupied mode: • The outside air damper shall close and the return air damper shall open when the unit is off oe in unoccupied mode.

Dehumidification Mode:

- Dehumidification mode activates when the return air relative humidity is above 60% (adjustable) or any associated room relative humiditysensor is above 60% (adj.).
- Dehumidification mode temporarily disables the cooling supply air temperature reset and maintains constant cooling coil discharge air temperature at 47°F (adj.). Economizer mode is disabled. Reheat coil is to be enabled. Dehumidification disables when return air relative humidity is 2% (adj.) below humidity setpoint.
- Alarms shall be provided as follows:
- Relief Fan Failure: Commanded on, but the status is off. Relief Fan in Hand: Commanded off, but the status is on.

SENSING RELAY ON EACH FAN.

 Relief Fan Runtime Exceeded for Maintenance: Status runtime exceeds a user definable limit (adj.). Relief Fan VFD Fault.

Freeze Protection:

- When the outside air (OA) temperature drops below 36°F (adjustable), chilled water and hot water valves open to 20% if not already open. And At least one chilled water pump and one hot water pump shall run. • When the OA temperature rises 2°F above freeze protection setpoint for one (1) hour, the reverse occurs. Freeze Stat:
- Provide a temperature low limit switch to disable the unit and close all dampers when it senses that the air temperature is below 36°F (adjustable). Low Static Shutdown:
- The unit shall shut down and generate an alarm upon receiving a low static shutdown signal. Low static safety switches shall be initially set at 3"w.c (adj.) and verified by the TAB contractor. High Static Shutdown: • The unit shall shut down and generate an alarm upon receiving a high static shutdown signal. High static safety switches shall be initially set at 4"w.c (adj.) and verified by the TAB contractor.
- Return Air Smoke Detection: • The unit shall shut down and generate an alarm upon receiving a return air smoke detector status. Supply Air Smoke Detection:
- The unit shall shut down and generate an alarm upon receiving a supply air smoke detector status. Return and Supply Fan VFD Fault Alarm: • The controller shall generate an alarm upon receiving a return or supply air VFD fault alarm. The VFD fault alarm
- Supply Fans Failure: Commanded on, but the status is off. Supply Fans in Hand: Commanded off, but the status is on.

manufacturer recommendations.

shall be a hardwired input from the VFD to a DDC controller.

- Supply Fans Runtime Exceeded for Maintenance: Status runtime exceeds a user definable limit (adj.). • 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.
- Supply Fan VFD Fault. Supply Fan VFD in Bypass Alarm. • Filter Differential Pressure Monitor: The controller shall monitor the differential pressure across the final filter. Alarms shall be provided as follows: • Filter Change Required: Filter differential pressure exceeds a user definable limit (adj.) as per the filter
- · Mixed Air Temperature: The controller shall monitor the mixed air temperature and use as required for economizer control. Alarms shall be provided as follows: High Mixed Air Temp: If the mixed air temperature is greater than 90°F (adj.) • Low Mixed Air Temp: If the mixed air temperature is less than 45°F (adi.).
- Return Air Carbon Dioxide (CO2) Concentration Monitoring: The controller shall measure the return air CO2 levels. Alarms shall be provided as follows: • High Return Air Carbon Dioxide Concentration: If the return air CO2 concentration is greater than 1200ppm (adj.) when in the unit is running. • Return Air Humidity: The controller shall monitor the return air humidity and use as required for economizer control.
- Alarms shall be provided as follows: • High Return Air Humidity: If the return air humidity is greater than 70% (adj.). Low Return Air Humidity: If the return air humidity is less than 35% (adj.). Return Air Temperature: The controller shall monitor the return air temperature and use as required for setpoint

Low Supply Air Temp: If the supply air temperature is less than 45°F (adj.)

control or economizer control. Alarms shall be provided as follows: High Return Air Temp: If the return air temperature is greater than 90°F (adj.). Low Return Air Temp: If the return air temperature is less than 45°F (adj.). • Supply Air Temperature: 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 120°F (adj.).

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 VALVÈ ACTUATOR). REPLACE EXISTING SUPPLY AIR FAN VFD WITH NEW 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.

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.

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

CHILLED WATER AIR HANDLING UINIT CONTROLS SINGLE ZONE

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DESCRIPTION DATE

CHW AHU SINGLE-ZONE TreanorHL NO. HE0569.2302.0

CONTROLS DETAILS

SINGLE-ZONE CHILLED WATER AHU

NOT TO SCALE

TEN CONSENT OF PURDY-McGUIRE, IN

iM704

CONTROLS DETAILS CHW AHU MULTI-ZONE

FreanorHL NO. HE0569.2302.0

MULTI-ZONE CHILLED WATER VAV AHU NOT TO SCALE

RADF -TYPICAL PER EACH COMBO SPACE SENSOR PROVIDE 1 LINEAR FOOT OF FREEZE STAT TO 1 SQFT OF _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ COIL. USE MULTIPLE RMTSP FREEZE STATS AS NEEDED TYPICAL PREHEAT COIL LOCATED IN **INSTALL WITH PROPER** <u>DUTSIDE AIR DUCT</u> RMTOB -MOUNTING CLIPS. LSP SAFST1 SAFST2 OUTSIDE AIR LOCATE STATIC X2 - SUPPLY SENSOR IN DUCT WHERE STATIC PRESSURE IS NO CCVF BACKDRAF1 FAN STATUS SHALL BE **GREATER THAN 1.2"** DSP -FROM A PROPERLY SIZED ONE PER ADJUSTABLE CURRENT SENSING RELAY ON EACH FAN ON DISCHARGE OF FAN SUPPLY AIR TO VAV **BOXES**

Variable Air Volume Air Handling Unit (Preheat/Chilled Water/ Hot Water Reheat):

• The unit is to have supply fan, hot water coil, chilled water coil and outside air damper. The Control System Contractor to provide a dedicated stand-alone DDC controller for each unit. Each DDC controller shall be located in a NEMA 1 enclosure near the unit in the corresponding mechanical room. Each DDC controller should have battery back-up sufficient to retain any controls databases or algorithm, and ensure controller uptime on a potential loss of primary power. Each DDC controller serving a AHU should have its own UPS to ensure smooth transitions to and from emergency power and allow for proper execution of programs and control.

HWR HWS

The EMCS optimum start/stop schedule defines the occupied/unoccupied mode of

- During unoccupied times, a minimum number of associated VAV boxes, 40% (adjustable), to request the AHU before AHU operates.
- Fan Control: The unit operates when the associated VAV boxes it serves are in occupied mode and
- The supply fan VFD is controlled by a static pressure transducer 2/3rds the way down the longest supply duct run. If the static pressure is below setpoint, the supply fan speed increases. If the static pressure is above setpoint, the supply fan speed decreases. Provide a static pressure reset algorithm with minimum and maximum limits of 0.5 inches to 1.2 inches (adj.). VAV boxes to be polled for damper position. Static pressure slowly

Temperature Control:

 Warm-up or Cool-down: The EMCS determines the required warm-up or cool-down period based on the optimized start algorithm. Upon enabling the unit, the unit heats and cools as required to maintain the occupied

heating and cooling setpoints (initially 70°F heating, 74°F cooling) as sensed by a

decreases until 25% (adj.) of the VAV box damper positions are at least 90% open.

- space temperature sensor. • During warm-up, the supply air discharge temperature is 90°F (adj.). During cooldown, the supply air temperature is 55°F (adj.). Once the occupied setpoint temperature threshold has been reached, the EMCS
- switches the unit to the occupied mode. Occupied Mode: Preheat Coil: The preheat valve modulates to maintain preheat discharge air
- temperature of 40°F (adj.). Preheat coil disables when ambient outside air
- temperature is above 40°F (adj.). ReHeating Coil: The heating valve modulates tomaintain unit discharge supply air temperature of 55°F (adj.). Heat coil disables when ambient outside air temperature is above 55°F (adj.) or if unit is not in dehumidification mode (reheat coil to be enabled if in dehumidification mode.)
- Cooling Coil: The chilled water valve modulates to initially maintain unit discharge supply air temperature of 55°F (adj.). Provide a linear supply air temperature reset algorithm between: • 55°F (adj.) supply air temperature supply when outside air temperature is at or
- above 80°F (adj.). • 60°F (adj.) supply air temperature supply when outside air temperature is at or below 50°F (adj.).
- Unoccupied Mode: The EMCS enables the unit as required to maintain the unoccupied heating and cooling setpoints (initially 60°F heating and 80°F cooling) as sensed by the VAV box space temperature sensors. A minimum number of associated VAV boxes, 40% (adj.), to request the AHU before AHU operates.

Outside Air Damper Control: Warm-up or Cool-down: The outside air damper to be closed. Occupied mode:

- When in the occupied mode AND when GEF-1 is running, the DDC controller shall open the OA damper(s) to the Design MAX Ventilation CFM position (adj.). TAB shall provide the damper position that matches the MAX Design Ventilation CFM required. • When in the occupied mode AND when GEF-1 is NOT running, the DDC controller shall back the OA damper(s) down to the Design MIN Ventilation CFM position (adj.). TAB shall provide the damper position that matches the MIN Design Ventilation CFM required. The OA damper shall not be allowed to drop below the minimum position when in occupied moad.
- The outside air damper shall close and the return air damper shall open when the unit is off oe in unoccupied mode.

Dehumidification Mode:

Denumidification mode activates when the return air relative numidity is above 60% (adj.) or any associated room relative humiditysensor is above 60% (adj.). Dehumidification mode temporarily disables the cooling supply air temperature reset and maintains constant discharge air temperature at 47°F (adj.). Economizer mode is disabled. • Dehumidification disables when return air relative humidity is 2% (adj.) below humidity setpoint.

CHWR CHWS

- Relief Fan Building Pressure Control: • The relief fan shall run whenever the supply fan has a positive proof of run status on the BMS, and the unit is in economizer mode. The controller shall measure associated building static pressure and modulate the relief fan VFD speed to maintain a building static pressure setpoint of + 0.03 - 0.05 in H2O (adjustable). The relief fan VFD speed shall not drop below 20hz (adj.)
- Alarms shall be provided as follows: Relief Fan Failure: Commanded on, but the status is off.
 - Relief Fan in Hand: Commanded off, but the status is on. Relief Fan Runtime Exceeded for Maintenance: Status runtime exceeds a user definable limit Relief Fan VFD Fault.

Freeze Protection:

- When the outside air (OA) temperature drops below 36°F (adj.), chilled water and hot water valves open to 20% if not already open. And at least one chilled water pump and one hot • When the OA temperature rises 2°F above freeze protection setpoint for one (1) hour, the reverse occurs.
- Freeze Stat: Provide a temperature low limit switch to disable the unit and close all dampers when it senses that the air temperature is below 36°F (adj.). Low Static Shutdown:
- The unit shall shut down and generate an alarm upon receiving a low static shutdown signal. Low static safety switches shall be initially set at 3"w.c (adj.) and verified by the TAB contractor. High Static Shutdown:
- The unit shall shut down and generate an alarm upon receiving a high static shutdown signal. High static safety switches shall be initially set at 4"w.c (adj.) and verified by the TAB contractor. Return Air Smoke Detection:
- The unit shall shut down and generate an alarm upon receiving a return air smoke detector Supply Air Smoke Detection:
- The unit shall shut down and generate an alarm upon receiving a supply air smoke detector Return and Supply Fan VFD Fault Alarm: • The controller shall generate an alarm upon receiving a return or supply air VFD fault alarm. The VFD fault alarm shall be a hardwired input from the VFD to a DDC controller.

Supply Fans Failure: Commanded on, but the status is off. Supply Fans in Hand: Commanded off, but the status is on.

- Supply Fans Runtime Exceeded for Maintenance: Status runtime exceeds a user definable limit • High Supply Air Static Pressure: If the supply air static pressure is 25% (adj.) greater than • Low Supply Air Static Pressure: If the supply air static pressure is 25% (adj.) less than setpoint.
- Supply Fan VFD Fault. Supply Fan VFD in Bypass Alarm. • Filter Differential Pressure Monitor: The controller shall monitor the differential pressure across the final filter. Alarms shall be provided as follows: • Filter Change Required: Filter differential pressure exceeds a user definable limit (adj.) as per the filter manufacturer recommendations.
- Mixed Air Temperature: The controller shall monitor the mixed air temperature and use as required for economizer control. Alarms shall be provided as follows: High Mixed Air Temp: If the mixed air temperature is greater than 90°F (adj.). Low Mixed Air Temp: If the mixed air temperature is less than 45°F (adj.).
- Return Air Carbon Dioxide (CO2) Concentration Monitoring: The controller shall measure the return air CO2 levels. Alarms shall be provided as follows: High Return Air Carbon Dioxide Concentration: If the return air CO2 concentration is greater than 800ppm (adi.) when in the unit is running.
- Return Air Humidity: The controller shall monitor the return air humidity and use as required for economizer control. Alarms shall be provided as follows: High Return Air Humidity: If the return air humidity is greater than 70% (adj.). Low Return Air Humidity: If the return air humidity is less than 35% (adj.). • Return Air Temperature: The controller shall monitor the return air temperature and use as
- required for setpoint control or economizer control. Alarms shall be provided as follows: High Return Air Temp: If the return air temperature is greater than 90°F (adj.). Low Return Air Temp: If the return air temperature is less than 45°F (adj.). Supply Air Temperature: The controller shall monitor the supply air temperature. Alarms shall be
- High Supply Air Temp: If the supply air temperature is greater than 120°F (adj.). Low Supply Air Temp: If the supply air temperature is less than 45°F (adj.)

RMTOB

Space/Room Temp OCC Override Button

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 WITH NEW 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.

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

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

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

		CHILLED WATER	R AIR HANDLING UINI	T CONTROLS MULT	T-ZONE			
REFERENCE	POINT NAME	ANALOG INPUT	ANALOG OUTPUT	BINARY INPUT	BINARY OUTPUT	INTEGRATION	TREND ON BAS	SHOW ON BAS GRAPHIC
AFDP	Filter Alarm			X			X	X
BSP	Building Static Pressure	X					Х	Х
CCV	Chilled Water Valve	X					Х	X
CCVF	Cooling Coil Valve Feedback	X					Х	Χ
DSP	Static Pressure Sensor			Χ			Х	Χ
FRZ	Freeze Status Alarm			Χ			X	Χ
HSP	High Static Alarm			Χ			X	X
LSP	Low Static Saftey			Χ			X	Χ
MAT	Mixed Air Temp	X					X	X
OAD	Outside Air Damper		X				X	X
OADF	Minimum Outside Air Damper Feedback	X					Х	X
PHT	Preheat Supply Air Temperature (PreCool)	X					Х	X
PHV	Hot Water Valve		X				Х	X
PHVF	Preheating Valve Feedback	X					X	X
RACO2	Return Air CO2	X					Х	X
RAD	Return Air Damper		X				X	X
RADF	Return Air Damper Feedback	X					Х	X
RAH	Return Air Humidity	X					Х	X
RAT	Return Air Temp	X					Х	X
RMT	Space/Room Temp	X					X	X
RMTSP	Space/Room Temp Local Setpoint Adjust	X					Х	Х
RSD	Return Air Smoke Detector			Х			Х	Χ
SAF	Fan Start/Stop Command				X		Х	Х
SAFF	Supply Fan VFD Fault			Х			Х	Χ
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	X
SSD	Supply Air Smoke Detector			Х			Х	X

Variable Air Volume - VAV Box w/ Hot Water Reheat (Typical of each)

Run Conditions - Scheduled:
The unit shall run according to a user definable time schedule in the following modes: Occupied Mode: The unit shall maintain

 A 75°F (adj.) cooling setpoint A 70°F (adj.) heating setpoint.

Day Unoccupied Mode: The unit shall maintain A 80°F (adj.) cooling setpoint A 65°F (adj.) heating setpoint.

Night Unoccupied Mode: The unit shall maintain
A 85°F (adj.) cooling setpoint.

A 55°F (adj.) heating setpoint.

Alarms shall be provided as follows: • High Zone Temp: If the zone temperature is greater than the cooling setpoint by 2°F (adj.). • Low Zone Temp: If the zone temperature is less than the heating setpoint by 2°F (adj.).

The occupant shall be able to adjust the zone temperature heating and cooling setpoints at the zone sensor.

Zone Unoccupied Override: 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

Variable Volume Terminal Unit - Flow Control: 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
- When the zone temperature is less than the occupied cooling setpoint and above the occupied heating setpoint, the zone damper shall maintain the minimum required zone ventilation (adj.).
- When zone temperature is less than its occupied heating setpoint, the zone damper shall maintain the heating airflow (adj.) until the zone is satisfied.

AND the fan is on.

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

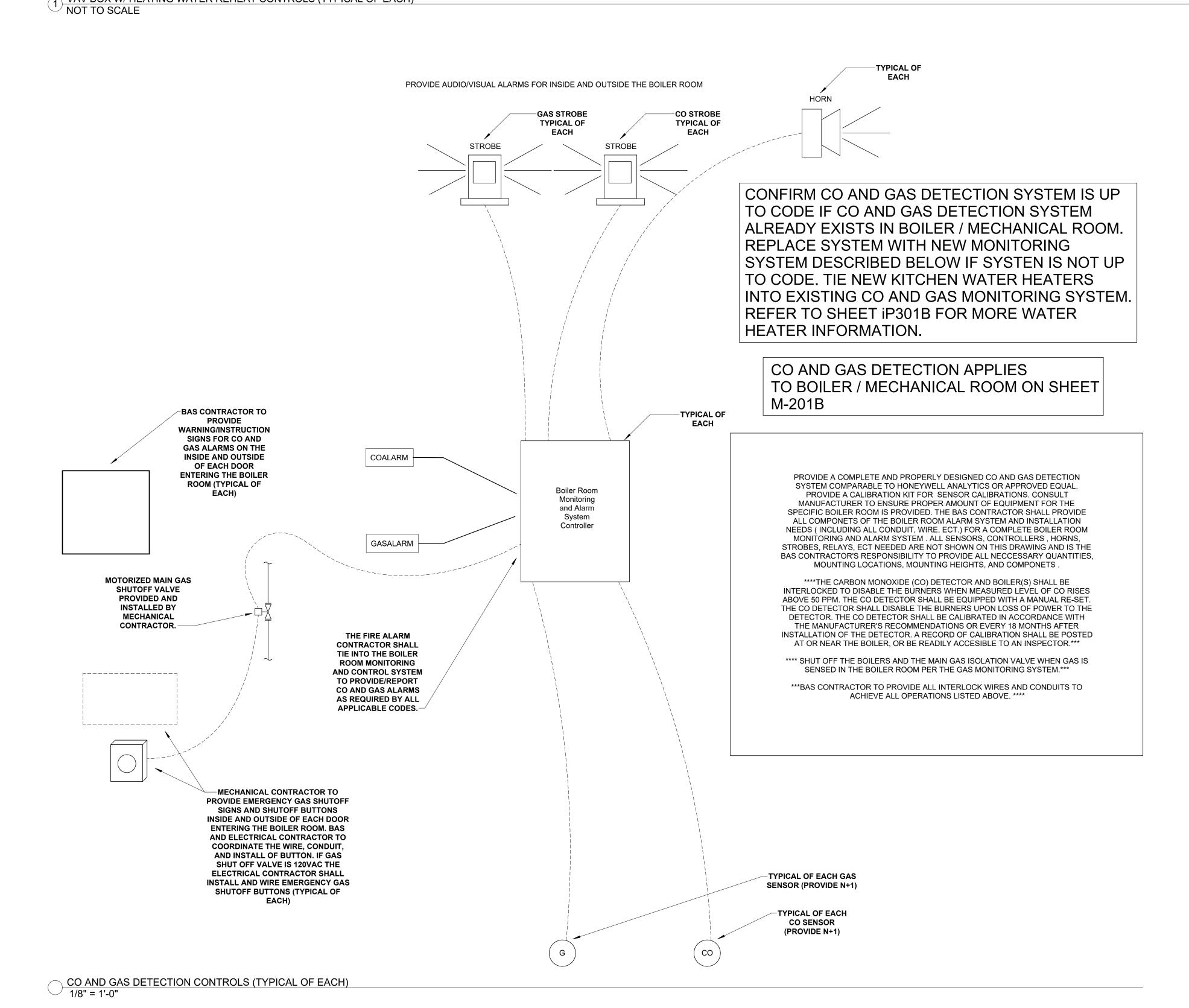
- maximum cooling airflow (adj.) until the zone is satisfied. When the zone temperature is less than the unoccupied cooling setpoint and above the unoccupied heating setpoint, the zone damper shall maintain the minimum
- required zone ventilation (adj.). When zone temperature is less than its unoccupied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

Heating Coil Valve:
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.

<u>Discharge Air Temperature:</u> The controller shall monitor the discharge air temperature.

VAV BOX W/ HEATING WATER REHEAT CONTROLS (TYPICAL OF EACH)



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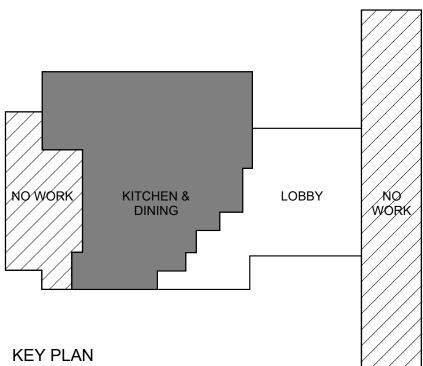
CONTROLS DETAILS VAV & CO AND GAS DETECTION FreanorHL NO. HE0569.2302.0



- 1 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.
- 2 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. 3 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.
- 4 CONTRACTOR TO DEMO THE EXISTING FLOOR DRAIN AND ASSOCIATED PIPING SERVING THE EXISTING DRAIN. CONTRACTOR TO FIELD VERIFY THE ROUTING OF EXISTING PIPING SERVING THE EXISTING DRAIN PRIOR TO DEMOLITION. ALL EXISTING PIPING NOT BEING RE-USED SHALL BE DEMO AND CAPPED AT THE EXISTING MAIN PLUMBING LINE SERVING THE EXISTING KITCHEN.
- 5 CONTRACTOR TO DEMO THE EXISTING FLOOR SINK AND ASSOCIATED PIPING SERVING THE EXISTING FLOOR SINK. CONTRACTOR TO FIELD VERIFY THE ROUTING OF EXISTING PIPING SERVING THE EXISTING FLOOR SINK PRIOR TO DEMOLITION. ALL EXISTING PIPING NOT BEING RE-USED SHALL BE DEMO AND CAPPED AT THE EXISTING MAIN PLUMBING LINE SERVING THE EXISTING KITCHEN.
- 6 CONTRACTOR TO DEMO ALL EXISTING GREASE WASTE PIPING SERVING THE EXISTING KITCHEN DRAINS UP TO THIS LOCATION AND CAP FOR FUTURE USE AT THE EXISTING GREASE WASTE MAIN PLUMBING LINE SERVING THE EXISTING KITCHEN.
- 7 CONTRACTOR TO DEMO ALL EXISTING SANITARY SEWER PIPING SERVING THE EXISTING KITCHEN DRAINS UP TO THIS LOCATION AND CAP FOR FUTURE USE AT THE EXISTING SANITARY SEWER MAIN PLUMBING LINE SERVING THE EXISTING KITCHEN.

REVISION SUMMARY:

 ADDED DEMO PLUMBING SHEET FOR FURTHER CLARIFICATION.



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ADDENDUM 2 05.23.25

LEVEL 1 DEMO PLUMBING PLAN -DINING

FreanorHL NO. HE0569.2302.01

OTHERS

B. ALL WORK SHALL COMPLY WITH THE <u>BUILDING TENANT CONSTRUCTION GUIDE</u>. COORDINATE WITH <u>BUILDING</u> 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

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

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 <u>NOT</u> 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

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

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

WATER HAMMER ARRESTOR SCHEDULE

FIXTURE

TANK WATER CLOSET

URINAL

LAVATORY/SINK

JANITOR SINK

SHOWER/BATHTUB

PC TO PROVIDE WATER HAMMER ARRESTORS BY SIOUX CHIEF, PRECISION

HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION. BUT NEVER UPSIDE DOWN.

PLUMBING PRODUCTS, OR WATTS WITH PISTON AND O-RING CONSTRUCTION,

INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS

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

VALVE WATER CLOSET | 10

FIXTURE UNIT TABULATION

PDI PIPE FIXTURE

SIZE | SIZE | UNIT LOAD

F 2" 154-330

1-11

12-32

33-60

61-113

114-154

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

APPLICATION	MATERIAL	FITTINGS	JOINTS	
DOMESTIC				
	COPPER	SOLDER	BRAZED	
UNDERSLAB (4" AND SMALLER)	PVC			
ABOVEGROUND				
2" AND SMALLER	COPPER	FLANGES	BRAZED	
		SOLDER	SOLDER	
		*PRESS FITTIN	IGS 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	
LINDEROPOLIND		MECHANICAL	. 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 ANI HUBLESS-COUPLING JOINT	
EXPOSED PIPING IN KITCHEN	DWV COPPER	WROUGHT COPPER	BRAZED	
STORM				
	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			•	
	COPPER	WROUGHT COPPER	SOLDERED	
CONDENSATE				
	COPPER	WROUGHT COPPER	SOLDERED	

*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. 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.

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						
	PIPING DOWN						
	PIPING UP -OR- PIPING UP & DOWN						
⊏ЩСО	CLEANOUT (CO) OR WALL CLEANOUT (WCO)						
—ф FCO	FLOOR (FCO) OR GRADE (GCO) CLEANOUT						
	CAP ON END OF PIPE						
-	DIRECTION OF FLOW						
>	DIRECTION OF SLOPE						
─ >>>	ISOLATION / SHUT-OFF VALVE (SOV) / GAS COCK						
	UNION						
$- \not \rightarrowtail -$	BALANCING VALVE / CIRCUIT SETTER						
-12-	GAS REGULATOR						
- ₩	PRESSURE REDUCING VALVE (PRV)						
− ₹	CHECK VALVE						
lacktriangle	CONNECT TO EXISTING						
	*NOTE: NOT ALL SYMBOLS MAY BE USED IN PLAN						

PLUMBING ABBREVIATIONS					
SYMBOL	DESCRIPTION				
ABV	ABOVE				
AFF	ABOVE FINISHED FLOOR				
BFF	BELOW FINISHED FLOOR				
BOP	BOTTOM OF PIPE				
DFU	DRAIN FIXTURE UNIT				
ER / er	EXISTING ITEM TO BE RELOCATED				
ED / ed	EXISTING ITEM TO BE REMOVED				
E/e	EXISTING ITEM TO REMAIN				
FDC	FIRE DEPARTMENT CONNECTION				
FU	FIXTURE UNITS				
GPH	GALLONS PER HOUR				
GPM	GALLONS PER MINUTE				
ΙE	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				

			13.1	OLULATION FINIS	1.1
	INSUL	ATION		SULATION FINIS I IF NO INSULAT	
APPLICATION	INSULATION TYPE	INSULATION THICKNESS	INDOOR CONCEALED	INDOOR EXPOSED (C)	OUTDOOR (G)
DOMESTIC COLD WATER PIPING (F)					
INDOOR: PIPE DIAMETER 1-1/4" & SMALLER	6i	1/2"	8F	5F	NA
INDOOR: PIPE DIAMETER 1-1/2" & LARGER	6i	1"	8F	5F	NA
OUTDOOR: 2" & SMALLER	6i	2"	NA	NA	3F
OUTDOOR: 2-1/2" - 6"	6i	2"	NA	NA	3F
DOMESTIC HOT WATER PIPING					
INDOOR: PIPE DIAMETER 1-1/4" & SMALLER	6i	1"	8F	5F	NA
INDOOR: PIPE DIAMETER 1-1/2" & LARGER	6i	1-1/2"	8F	5F	NA
BELOW GRADE: ALL SIZES	4i	1-1/2"	NA NA	NA NA	NA
OUTDOOR: ALL SIZES	6i	2"	NA	NA	3F
STORM AND STORM OVERFLOW PIPING					
INDOOR: ALL SIZES	6i	1"	8F	5F	NA
OUTDOOR: ALL SIZES	NA	NA	NA	NA	NA
INDOOR: ROOF DRAIN AND OVERFLOW DRAIN BODIES	6i	1"	8F	8F	NA
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

GENERAL NOTES (APPLIES TO ALL): NOT ALL PIPE TYPES MAY BE USED IN PLAN. REFER TO FLOOR PLANS FOR MORE INFORMATION.

A. CELLULAR FOAM MAY BE SUBSTITUTED B. USE 9F FINISH FOR CELLULAR FOAM

THIS INCLUDES BUT IS NOT LIMITED TO, PIPING EXPOSED IN MECHANICAL ROOMS, PIPING IN OPEN CEILINGS EXPOSED TO THE PUBLIC OR PRIVATE PERSONNEL, OR EXPOSED PIPING DOWN KITCHENS WALLS, ETC. INSULATION ON INDOOR EXPOSED SANITARY PIPING IS FOR AESTHETIC APPEAL ONLY AND ONLY PROVIDED AT THE DIRECTION

OF THE ARCHITECT IN VERY LIMITED LOCATIONS. THE CONTRACTOR SHALL ONLY PROVIDE THIS INSULATION WHERE IT IS SPECIFICALLY CALLED OUT ON THE PLUMBING FLOOR PLANS. IF NOT INDICATED ON THE PLUMBING FLOOR PLANS, THE CONTRACTOR SHALL TREAT INDOOR EXPOSED SANITARY PIPING THE SAME WAY INDOOR CONCEALED SANITARY PIPING IS TREATED IN THIS SCHEDULE. REFER TO THE PLUMBING FLOOR PLANS FOR LOCATIONS. REFER TO THE ARCHITECTURAL PLANS

DRAIN SERVING ANY WATER HEATING APPLIANCE (120 °F AND HIGHER). THIS INCLUDES BUT IS NOT LIMITED TO DRAINS BESIDE DOMESTIC WATER HEATERS, HEATING WATER BOILERS, AND DIRECT CONNECTIONS OR DRAINS RECEIVING WATER FROM

ALL PROCESS WATER PIPES SHALL BE INSULATED TO THE SAME LEVEL AS THE DOMESTIC COLD WATER LISTED IN THE SCHEDULE ABOVE. THIS INCLUDES, BUT IS NOT LIMITED TO, DEIONIZED (DI) WATER, FILTERED WATER, REVERSE OSMOSIS (RO)

OUTDOORS INCLUDES ANY UNHEATED AREAS. REFER TO THE HEAT TRACE DETAIL FOR MORE DETAIL DESCRIPTIONS OF LOCATIONS CONSIDERED OUTDOORS.

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 - REFER TO SECTION 23313 FOR ADDITIONAL INFORMATION

6i. FIBERGLASS PIPE INSULATION - MAXIMUM K FACTOR AT 100 DEGREES F SHALL BE 0.24, MUST PASS ASTM C411 TO 850 DEGREES F. DENSITY SHALL BE 3.5 LBS/FT3/ NFPA 255 AND UL 7723 FOR 25/50 FLAME SPREAD AND SMOKE DEVELOPED. 7i. MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I OR II. NA. NOT APPLICABLE OR NONE REQUIRED.

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 NO FINISH REQUIRED.

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

PLUMBING APPLICABLE CODES

2021 INTERNATIONAL PLUMBING CODE (IPC

2021 INTERNATIONAL FUEL GAS CODE (IFGC) 2021 INTERNATIONAL ENERGY CONSERVATION (IECC)

CURRENT CAMPUS DESIGN GUIDELINES CITY OF DENTON LOCAL AMENDMENTS

FIRE SUPPRESSION APPLICABLE CODES

FM GLOBAL

2021 INTERNATIONAL FIRE CODE (IFC)

CURRENT CAMPUS DESIGN GUIDELINES CITY OF DENTON LOCAL AMENDMENTS

D. SCOTT BROWN 89097

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SCOTT BROWN, PROJECT MGR. MITCHELL HENTON MITCHELL HENTON CHANICAL PLUMBING ELECTRICAL CHRIS WOODYARD JOHN KNOWLES THIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT TED IN THE TITLE BLOCK, WITHOUT THE ITTEN CONSENT OF PURDY-McGUIRE, INC

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REVISIONS DESCRIPTION DATE

iP001

SYMBOLS

PLUMBING NOTES &

reanorHL NO. HE0569.2302.0

IMAGE	DESIGN.	FIXTURE	MANUFACTURER	PLUMBING MODEL NUMBER	ADDITIONAL COMPONENTS	GPF/GPM		I-IN CON	INECTION SAN	N SIZES VENT	DESCRIPTION
9	WCA	WATER CLOSET BODY	KOHLER	WELLCOMME ULTRA 15" HEIGHT, 1.1 GPF TO 1.6 GPF, ELONGATED BOWL, VITREOUS CHINA WITH EVERCLEAN FINISH, MODEL #		-	REF: FVW	-	4"	2"	FLOOR MOUNTED, 15" HEIGHT, SIPHON JET, ELONGATED BOWL WITH CHURCH #9500C SEAT.
3	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	-	REF: FVW	-	4"	2"	FLOOR MOUNTED, 16.5" ADA HEIGHT, SIPHON JET, ELONGATED BOWL, WITH CHURCH #9500C SEAT.
	FVW	MANUAL WATER CLOSET FLUSH VALVE	SLOAN	MODEL # ROYAL 111-1.28	-	1.28 GPF	1"	-	_	-	EXPOSED, MANUAL FLUSH VALVE, AND HIGH EFFICIENCY. IF INSTALLED ADA WATER CLOSET, CONFIRM ROUGH-IN HEIGHTS WITH ARCHITECTUL DRAWINGS AND MANUFACTURER'S RECOMMENDED ADA INSTALLATION
	URA / URB(ADA)		AMERICAN STANDARD	WASHBROOK FLOWISE UNIVERSAL URINAL, 0.125GPF TO 1.0GPF, ELONGATED RIM WITH EVERCLEAN FINISH, MODEL	PROVIDE WITH "FVU" FLUSH VALVE FOR URINAL, DEFINED ON THIS SCHEDULE.	-	REF: FVU	-	2"	1-1/2"	PRIOR TO ROUGH-IN. FIXTURE SHALL HAVE LEED WATERSENSE LABELI WALL HUNG, WASHOUT FLUSH ACTION, WITH STAINLESS STEEL STRAIN AND JOSAM CARRIER. INSTALLED AT 24" MOUNTING HEIGHT FOR A STANDARD URINAL "URA" AND INSTALLED AT ADA MOUNTING HEIGHT OF
	FVU	MANUAL URINAL FLUSH VALVE	SLOAN	#6590.001 MODEL # ROYAL 186-0.125	-	0.125 GPF	3/4"	-	-	-	17" FROM FLOOR TO LIP OF URINAL BASIN FOR URINAL "URB". EXPOSED, MANUAL FLUSH VALVE, AND HIGH EFFICIENCY. IF INSTALLED ADA URINAL, CONFIRM ROUGH-IN HEIGHTS WITH ARCHITECTURAL DRAWINGS AND MANUFACTURER'S RECOMMENDED ADA INSTALLATION
	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	2"	1-1/2"	PRIOR TO ROUGH-IN. FIXTURE SHALL HAVE LEED WATERSENSE LABEL UNDERCOUNTER 19"X16" VITREOUS CHINA LAVATORY BOWL, GLAZED ADA COMPLIANT. PROVIDE WITH CHROME-PLATED CAST BRASS P-TRAI WITH CLEANOUT. CHROME PLATED GRIP TYPE SUPPLY WITH WALL ESCUTCHEON AND LOOSE-KEY WALL STOPS EQUAL TO MCGUIRE NO. I 15BLK. PROVIDE TRUEBRO INSULATION KIT FOR ADA COMPLIANCE.
	FTL	MANUAL LAVATORY FAUCET	KOHLER	HONESTY SERIES SINGLE-HANDLE BATHROOM SINK MODEL K099760-4N-CP	PROVIDE WITH "TMV" POINT OF USE THERMOSTATIC MIXING VALVE, DEFINED ON THIS SCHEDULE.	0.5 GPM	1/2"	1/2"	-	-	MULTIPLE LAMINAR SPRAY HEAD FAUCET WITH CHROME PLATED BRAS GRID STRAINER ASSEMBLY. CONFIRM ALL FINISH COLORS WITH ARCHITECT PRIOR TO ORDER.
	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 BUMPER GUARD, STAINLESS STEEL BACK PANELS.
	FTM	FAUCET FOR MOP OR SERVICE SINK	CHICAGO FAUCETS	MODEL # 540-LD897SGXKCCP	PROVIDE WITH "TMV" POINT OF USE THERMOSTATIC MIXING VALVE, DEFINED ON THIS SCHEDULE, AND 5FT HOSE.	FULL FLOW	3/4"	3/4"	-	-	VANDAL PROOF LEVER, VACUUM BREAKER, CHROME PLATED, PAIL HOW HOSE THREADED OUTLET, ADA COMPLIANT. PROVIDE WITH 5FT HOSE A COUPLING.
	EWC	ELECTRIC WATER COOLER WITH BOTTLE FILLER	HALSEY TAYLOR (ELKAY)	EZSTL8WSK	PROVIDE WITH "RPZ-S" (REDUCED PRESSURE ZONE SMALL) BACKFLOW PREVENTION DEVICE, DEFINED ON THIS SCHEDULE. MOUNT THE RPZ WITHIN THE WATER COOLER HOUSING, AND ABOVE THE LEVEL OF THE P-TRAP SO IT CAN GRAVITY DRAIN TO THE P-TRAP. ROUTE RPZ DRAIN TO THE TAILPIECE OF THE P-TRAP WITHIN THE WATER COOLER. TAP THE RPZ DRAIN LINE INTO THE SIDE OF THE TAILPIECE BEFORE THE P-TRAP. IF THE RPZ DOES NOT PHYSICALLY FIT WITHIN THE WATER COOLER HOUSING, PROVIDE THE RPZ IN THE CEILING JUST ABOVE THE WATER COOLER, OR IN THE WALL BESIDE THE WATER COOLER. ENSURE THE RPZ IS ACCESSIBLE AND PROVIDE ACCESS PANELS AS NEEDED IN THE WALL OR CEILING.	8 GPH	1/2"	-	2"	1-1/2"	BARRIER FREE, BI-LEVEL, REFRIGERATED, NON-FILTERED, WATER COC AND BOTTLE FILLING STATION WITH STAINLESS STEEL FINISH. PROVIDE WITH WALL CARRIER #MLP200. COOLER BI-LEVEL UNIT SHALL DELIVER GPH OF 50°F WATER AT 80°F INLET TEMPERATURE. REFRIGERANT SHAIR R134A. PROVIDE WITH FACTORY INSTALLED PLUG AND POWER CORD. COORDINATE WITH ELECTRICAL CONTRACTOR TO ENSURE A SIMPLEX, GFCI RECEPTACLE, OR GFCI CIRCUIT BREAKER IF THE RECEPTACLE IS INACCESSIBLE, ON A DEDICATED 120V/20A/1P CIRCUIT IS PROVIDED AT EACH WATER COOLER.
	HD	HUB DRAIN	JOSAM	SERIES 88600	-	-	-	-	REF: PLANS	REF: PLANS	OPEN CAST IRON DRAINAGE HUB. REFER TO PLANS FOR SIZE.
•	FD	FLOOR DRAIN SQUARE	JOSAM	MODEL # 30000-S	-	-	-	-	3"	2"	SQUARE, COATED CAST IRON FLOOR DRAIN, TWO-PIECE BODY WITH DOUBLE DRAINAGE FLANGE, FLASHING COLLAR, WEEP-HOLES, AND BOTTOM OUTLET. PROVIDE CHROME PLATED STRAINER. DRAIN SHALL COVERED DURING CONSTRUCTION. PROVIDE WITH PROTECTIVE DEBRICOVER.
J	FS	FLOOR SINK	ZURN	1900-NH-ZN-KC-P-2-32	-	-	-	-	4"	2"	COVER. SQUARE CAST IRON FLOOR SINK WITH WHITE A.R.E. COATED INTERIOR DOUBLE DRAINAGE FLANGE WITH WEEPHOLES, BOTTOM OUTLET, ALUMINUM INTERNAL DOME STRAINER, NON-TRAFFIC, ANTI-TILTING GRATE. 12" X 12" TOP SIZE WITH N.B. FRAME AND 1/2 GRATE. PROVIDE WITH TRAP GUARD, "W/TG" OR TRAP PRIMER "W/TP" AS INDICATED PER
	FCO	FLOOR CLEANOUT	JOSAM	SERIES 55000-2-31	-	-	-	-	REF: PLANS	-	PLANS. CAST IRON BODY WITH SATIN FINISH NIKOLAY TOP. CONFIRM FINISH COLOR WITH ARCHITECT. CONFIRM EXACT LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.
	WCO	WALL CLEANOUT	JOSAM	SERIES 58910	-	-	-	-	REF: PLANS	-	COATED CAST IRON CLEANOUT TEE WITH RECESSED, TAPPED PLUG AN POLISHED STAINLESS STEEL COVER (SERIES 58600).
	WMB	WASHING MACHINE BOX	OATEY	MODEL #38540	INSTALL WATER LINES WITH WATER HAMMER ARRESTORS.	-	1/2"	1/2"	2"	2"	QUATRO 1/4 TURN BRASS HAMMER BALL VALVE - COPPER SWEAT PACK
	HSA	HYDRAULIC SHOCK ABSORBER	JOSAM	SERIES 75000	-	-	REF: PLANS	REF: PLANS	-	-	WROUGHT COPPER SHELL SIZE AND LOCATE IN ACCORDANCE WITH P. STANDARDS.
	VTR	VENT TO ROOF - TWO WAY CARBON FILTER	STUDOR	MAXI-FILTRA	-	-	-	-	-	REF: PLANS	PROVIDE CARBON FILTER ON ALL VENT TO ROOF LOCATIONS. INSTALL PER MANUFACTURERS RECOMMENDATIONS. CARBON FILTER SHALL BE EXTERIOR RATED, PROVIDED WITH ALUMINUM EXTERIOR COVER. IT SH BE A 2-WAY VENT, FILTERING AIR IN BOTH DIRECTIONS. CONTRACTOR SHALL PROVIDE (1) REPLACEMENT CARTRIDGE IN THE MANUFACTURER ORIGINAL PACKAGING FOR OWNER'S ATTIC STOCK. REFER TO VENT TO ROOF DETAIL FOR MORE INFORMATION.
7	TG	TRAP GUARD	PRO-SET	TRAP GUARD	-	-	-	-	REF: FDx	-	INSTALL ON ALL FLOOR DRAINS, FLOOR SINKS, FLOOR TROUGHS AND FUNCTION THAT ARE INDICATED "W/TG" WITH TRAP GUARD. NOTE THAT ALL ALTERNATE TRAP GUARD SUBMITTED MUST BE OF THIS "LAMBS TONG! OR "CURLING FLAP" TYPE FORM. NO OTHER FORMS OF TRAP GUARDS BE ACCEPTED.
	AG	DISHWASHER AIR GAP	DEARBORN BRASS	MODEL # DB-CD-3	-	-	-	-	REF: EQUIP MENT	-	COPPER BODY AIR GAP WITH POLISHED CHROME PLATED METAL CAP. PROVIDE WITH NECESSARY ACCESSORIES AND TUBING FOR A COMPLEINSTALLATION. CONFIRM COLOR/FINISH WITH ARCHITECT.
•	BFP	SMALL DUAL CHECK VALVE WITH ATMOSPHERIC PORT AND STRAINER FOR CARBONATED BEVERAGE MACHINE OR COFFEE	WATTS	MODEL # SD-3	-	-	REF: PLANS	REF: PLANS	VARIES	-	ASSE 1022 BACKFLOW PREVENTER FOR CARBONATED BEVERAGE MACHINES AND OTHER APPLIANCES. SHALL BE LEAD FREE. PROVIDE COPPER DRAIN PIPING (SIZE PER MANUFACTURER) FROM VALVE ASSEMBLY AND ROUTE TO NEAREST DRAIN (HUB DRAIN OR FLOOR SIN
Harr	RPZ-S	MAKER, ETC SMALL REDUCED PRESS RELIEF ASSEMBLY FOR MAKEUP WATER TO MECHANICAL EQUIPMENT ICE MACHINE, OR WATER FILTER, ETC	WATTS	1/2" - 2" MODEL #LF009QT	-	-	REF: PLANS	REF: PLANS	-	-	ASSE 1013 COMPLIANT REDUCED PRESSURE ZONE ASSEMBLY. REFER SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. PROVIDE WITH SHUTOFF VALVES, LEAD FREE, FDA EPOXY COATED. PROVIDE FULL SIZ COPPER DRAIN PIPING FROM VALVE ASSEMBLY AND PROVIDE FLOOR SFOR DRAIN NEAR ASSEMBLY AS SHOWN ON DRAWINGS. ENSURE ASSEMBLY IS ACCESSIBLE PER LOCAL JURISDICTION'S GUIDELINES.
-	TMV	POINT OF MIXING VALVE	LEONARD	S-170A-LF	-	-	REF: PLANS	REF: PLANS	-	-	POINT OF USE MIXING VALVE. VALVE SHALL BE ASSE 1070 CERTIFIED A CAPABLE OF MEETING OR EXCEEDING ALL OF THE FOLLOWING CHARACTERISTICS; -MINIMUM FLOW: 0.25 GPM (0.95 L/MIN) CERTIFIED TO ASSE -MAXIMUM FLOW: 4 GPM -MAXIMUM PRESSURE: 125 PSI (8.6 BAR) -MAXIMUM HOT WATER TEMPERATURE: 180 DEG F (82 DEG C) -HOT WATER INLET TEMPERATURE RANGE:120-180 DEG F (49-82 DEG C) -COLD WATER INLET TEMPERATURE RANGE: 33-80 DEG F (1-27 DEG C) -TEMPERATURE ADJUSTMENT RANGE: 95-120 DEG F (35-49 DEG C)
· Joseph	TMV ACCEPTABLE ALTERNATE	POINT OF MIXING VALVE	SLOAN	MODEL # MIX-135 0326045PK	-	-	REF: PLANS	REF: PLANS	-	-	POINT OF USE MIXING VALVE. VALVE SHALL BE ASSE 1070 CERTIFIED A CAPABLE OF MEETING OR EXCEEDING ALL OF THE FOLLOWING CHARACTERISTICS; -MINIMUM FLOW: 0.5 GPM (2.2 L/MIN) CERTIFIED TO ASSE 1016 [ONLY ALLOWED IF FAUCET IS 0.5 GPM OR GREATER. IF THE FAUCET IS LESS THEN 0.5 GPM THE CONTRACTOR SHALL PROVIDE THE LEONARD TMV.] -MAXIMUM FLOW: 4 GPM -MAXIMUM PRESSURE: 125 PSI (8.6 BAR) -MAXIMUM HOT WATER TEMPERATURE: 180 DEG F (82 DEG C) -HOT WATER INLET TEMPERATURE RANGE: 33-80 DEG F (1-27 DEG C) -TEMPERATURE ADJUSTMENT RANGE: 95-120 DEG F (35-49 DEG C)

J. TRAP GUARDS: PRO-SET. SEE THE TRAP GUARD DESCRIPTION ABOVE FOR OTHER EQUAL ALTERNATE MANUFACTURERS.

F. MOP SINKS: FIAT, FLORESTONE, AMERICAN STANDARD, ELKAY, ZURN, AND SPEAKMAN. G. EMERGENCY SHOWERS AND EYE WASHES: GUARDIAN, BRADLEY, AND SPEAKMAN.

I. DRAINS AND CLEAN-OUTS: JOSAM, MIFAB, JAY R SMITH, WATTS, ZURN, AND SIOUX CHIEF.

H. WATER METERS: MASTER METER, BADGER, NEPTUNE, AND EMON.

K. BACKFLOW PREVENTERS: WATTS, AND BEECO.

Plumbing E	quipment Extended Warranty Schedule									
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.								

1. All materials, equipment, and workmanship for all MEP systems are fully warranted for 1 year from the date of substantial completion. This warranty shall include required parts and labor. Extended warranties listed above also begin at the date of substantial completion.
 The most stringent requirements, from either this schedule or the specifications, shall be met by the contractor.

PMI JOB NO. 23037.002
PROJECT MGR. SCOTT BROWN,
MITCHELL HENTON
MECHANICAL 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

UNIVERSIT

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	CONST	RUCTION
	CONST: JANUAR	RUCTION

PLUMBING FIXTURE SCHEDULE

TreanorHL NO. HE0569.2302.01

B. THE CONTRACTOR FOR THIS DIVISION OF WORK IS REQUIRED TO OBTAIN A COMPLETE SET OF BID

DOCUMENTS (DRAWINGS AND SPECIFICATIONS) AND FULLY REVIEW THEM. COORDINATE DIVISION 22 WORK WITH THAT OF ALL OTHER DIVISIONS OF WORK. C. $\,$ THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER. ANY LABOR OR MATERIAL CALLED FOR IN ONE SHALL BE FURNISHED AND INSTALLED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH. ANY LABOR OR MATERIAL WHICH IS NEITHER SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH IS OBVIOUSLY REQUIRED TO COMPLETE THE WORK, AND WHICH IS NORMALLY INCLUDED IN WORK OF SIMILAR CHARACTER, SHALL BE FURNISHED AND INSTALLED AS PART OF THIS

D. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE COMPLETION AND INSPECTION OF THIS WORK TO COMPLY WITH THE OWNER'S SCHEDULE AND PROJECT COMPLETION DATE.

25" 1.2 SCOPE OF WORK A. THE DESCRIPTION OF GENERAL CONDITION WORK IN THIS DIVISION SHALL ALSO APPLY TO DIVISIONS 21 AND

B. THIS CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE FIRE PROTECTION, PLUMBING AND HVAC SYSTEM AS SHOWN ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS AND AS REQUIRED BY JOB CONDITIONS. WORK IS TO BE COMPLETE IN EVERY RESPECT, WHETHER SPECIFICALLY MENTIONED IN THE

CONTRACT DOCUMENTS OR NOT. C. ALL WORK NOT SPECIFICALLY NOTED AS BEING BY THE OWNER (BUILDING OWNER, LANDLORD OR TENANT),

SHALL BE PROVIDED BY THIS CONTRACTOR. D. THIS WORK, MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING ITEMS: a. FIRE PROTECTION MODIFICATIONS AND ADDITIONS INCLUDING, BUT LIMITED TO PIPING, SPRINKLER HEADS

b. PLUMBING WORK INCLUDING, BUT NOT LIMITED TO WASTE AND VENT PIPING, DOMESTIC WATER SERVICE

FURNISHED BY THE OWNER OR OTHER SECTIONS OF THE SPECIFICATIONS. HEATING. VENTILATING AND AIR CONDITIONING SYSTEMS INCLUDING. BUT NOT LIMITED TO HEATING AND COOLING UNITS, VENTILATING SYSTEMS, COMPLETE DUCT SYSTEMS, GRILLES REGISTERS AND DIFFUSERS, INSULATION, ACCESSORIES AND TEMPERATURE CONTROL SYSTEMS.

AND DISTRIBUTION, PLUMBING FIXTURES, WATER HEATERS AND ROUGH-IN/CONNECTION TO EQUIPMENT

A. ALL WORK SHALL CONFORM TO THE OWNER'S CRITERIA, STATE, COUNTY, CITY AND LOCAL CODES AND ORDINANCES, SAFETY AND HEALTH CODES, NFPA CODES, ENERGY CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. THIS CONTRACTOR SHALL INQUIRE INTO AND COMPLY WITH ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS. THIS CONTRACTOR SHALL INCLUDE ANY CHANGES REQUIRED BY CODES IN THE BID AND IF THESE CHANGES ARE NOT INCLUDED IN THE BID, THEY MUST BE QUALIFIED AS A SEPARATE LINE ITEM IN THE BID. AFTER CONTRACT IS AWARDED, CHANGE ORDERS FOR INCREASED COSTS

DUE TO CODE ISSUES WILL NOT BE ACCEPTED UNLESS ALLOWANCES HAVE BEEN PREVIOUSLY AGREED UPON. 3. WHERE THE DRAWINGS AND SPECIFICATIONS CALL FOR ITEMS WHICH EXCEED CODE OR THE OWNER'S CRITERIA, THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING THE SYSTEM WITH THE MORE STRINGENT REQUIREMENTS.

1.4 LICENSES, PERMITS, INSPECTIONS AND FEES A. THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, INSPECTIONS AND FEES REQUIRED OR RELATED TO THIS WORK. ALL COSTS ASSOCIATED WITH THESE SHALL BE PAID FOR BY THE CONTRACTOR AND INCLUDED AS PART OF THE BID. B. FURNISH TO THE OWNER ALL CERTIFICATES OF INSPECTION AND FINAL INSPECTION APPROVAL AT THE

COMPLETION OF THE PROJECT. 1.5 GUARANTEE A. ALL MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF 1 YEAR FROM THE DATE OF ACCEPTANCE (OFFICIAL DATE IN WRITING) OF THIS PROJECT. ALL WORK FOUND TO BE DEFECTIVE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER. B. WHERE SPECIFIC EQUIPMENT IS NOTED TO HAVE EXTENDED WARRANTIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER REGISTRATION SO THE OWNER CAN MAKE ALL APPROPRIATE CLAIMS.

1.6 RECORD DRAWINGS A. THIS CONTRACTOR SHALL MAINTAIN ONE SET OF DRAWINGS ON THE JOBSITE, UPDATED WEEKLY, TO RECORD ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS SUCH AS:

a. LOCATIONS OF CONCEALED PIPING AND DUCTS REVISIONS, ADDENDUMS AND CHANGE ORDERS

c. SIGNIFICANT DEVIATIONS MADE NECESSARY BY FIELD CONDITIONS, APPROVED EQUIPMENT SUBSTITUTIONS, AND CONTRACTOR'S COORDINATION WITH OTHER TRADES.

B. DELIVER RECORD DRAWINGS TO THE OWNER AT PROJECT COMPLETION. 1.7 DEMOLITION A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE DEMOLITION OF EXISTING WORK

AND THE DEMOLITION PROVIDED BY THE GENERAL CONTRACTOR. COORDINATE WITH THE GENERAL CONTRACTOR ALL EXISTING EQUIPMENT REQUIRED TO BE LEFT INTACT. B. THIS CONTRACTOR SHALL INCLUDE AND BE RESPONSIBLE FOR THE REMOVAL OF ALL FIRE PROTECTION, PLUMBING AND HVAC SYSTEMS NOTED ON THE DRAWINGS OR REQUIRED TO ACCOMPLISH THE STATED WORK.

2.1 MATERIALS A. MATERIALS UTILIZED IN THE CONSTRUCTION OF THIS PROJECT SHALL BE NEW AND CARRY UL LABELS WHERE APPLICABLE, UNLESS APPROVED BY THE OWNER. B. ANY USED EQUIPMENT OR MATERIALS USED SHALL STILL CARRY THE SPECIFIED 1 YEAR GUARANTEE AND APPROVAL OF THE USE OF THIS EQUIPMENT OR MATERIALS DOES NOT RELIEVE THE CONTRACTOR FROM ENSURING EVERYTHING IS OPERATIONAL.

2.2 MANUFACTURERS A. WHERE TRADE NAMES OR MANUFACTURERS ARE USED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THE EXACT EQUIPMENT SHALL BE CONSIDERED THE BASIS OF DESIGN AND USED AS A MINIMUM FOR THE BASE BID. MANUFACTURERS CONSIDERED AS AN EQUAL OR BETTER IN ALL ASPECTS TO THAT SPECIFIED, WILL BE SUBJECT TO APPROVAL IN WRITING BY THE ENGINEER THROUGH THE SHOP DRAWING SUBMITTAL PROCESS. FOR ACCEPTANCE PRIOR TO INSTALLATION. THE USE OF ANY UNAUTHORIZED EQUIPMENT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

A. PROVIDE SLEEVES TO PROTECT EQUIPMENT OR FACILITIES IN THE INSTALLATION. EACH SLEEVE SHALL EXTEND THROUGH ITS RESPECTIVE FLOOR, WALL OR PARTITION AND SHALL BE CUT FLUSH WITH EACH SURFACE EXCEPT SLEEVES THAT PENETRATE THE FLOOR, WHICH SHALL EXTEND 2 INCHES ABOVE THE

B. CONTRACTOR SHALL COORDINATE THROUGH THE GENERAL CONTRACTOR AND OWNER ANY CORE DRILLING

OR CUTTING OF OPENINGS IN MASONRY WALLS OR CONCRETE FLOORS.

C. ALL SLEEVES AND OPENINGS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE FIRED SEALED. REFER TO D. SLEEVES IN BEARING AND MASONRY WALLS, FLOORS AND PARTITIONS SHALL BE STANDARD WEIGHT STEEL

PIPE FINISHED WITH SMOOTH EDGES. FOR OTHER THAN MASONRY PARTITIONS , THROUGH SUSPENDED CEILINGS, OR FOR CONCEALED VERTICAL PIPING, SLEEVES SHALL BE MINIMUM NO. 22 USG GALVANIZED STEEL. 2.4 FLAME SPREAD PROPERTIES OF MATERIALS

A. MATERIALS USED ON THIS PROJECT 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

2.5 FIRE STOPPING A. PROVIDE FIRE STOPPING IN SEALING OF PENETRATIONS IN FIRE-RATED CONSTRUCTION, HORIZONTAL AND VERTICAL, INCLUDING THE FOLLOWING MATERIALS: a. FOAM: DOW CORNING FIRESTOP SILICONE RTV FOAM, CAT #2001 LIQUID COMPONENT PART A (BLACK) AND

LIQUID COMPONENT PART B (OFF-WHITE). SEALANT: 3M 1000 NS AND 1003 SL SILICONE ADHESIVE SEALANT. DAMMING MATERIALS: MINERAL FIBERBOARD, MINERAL FIBER MATTING, MINERAL FIBER PUTTY, PLYWOOD OR PARTICLE BOARD, AS SELECTED BY THE APPLICATOR. B. MIXES SHALL CONFORM TO THE MANUFACTURER'S DIRECTIONS.

2.6 FLOOR, CEILING AND WALL PLATES A. PROVIDE CHROME-PLATED, ONE-PIECE, ESCUTCHEONS ON PIPES AND HANGER RODS PENETRATING WALLS, FLOORS AND CEILINGS IN FINISHED AREAS OF THE BUILDING. SPLIT RING ESCUTCHEONS ARE NOT ACCEPTABLE.

2.7 DIELECTRIC CONNECTIONS A. CONNECTIONS BETWEEN FERROUS AND NON-FERROUS PIPING SYSTEMS, AND BETWEEN FERROUS PIPING SYSTEMS AND NON-FERROUS CONNECTIONS TO EQUIPMENT SHALL BE MADE BY THE USE OF DIELECTRIC UNIONS, COUPLINGS OR FLANGES.

2.8 EQUIPMENT FOUNDATIONS AND SUPPORTS A. PROVIDE FOUNDATIONS AND SUPPORTS FOR MECHANICAL EQUIPMENT AS REQUIRED. THESE SHALL INCLUDE REINFORCED CONCRETE HOUSEKEEPING PADS FOR ANY PUMPS OR AIR HANDLING UNITS INSTALLED INDOORS ON THE FLOOR. PADS SHALL EXTEND A MINIMUM OF 3 INCHES BEYOND EQUIPMENT IN ALL DIRECTIONS.

PART 3 - EXECUTION 3.1 SPACE AND EQUIPMENT ARRANGEMENT

A. EACH CONTRACTOR SHALL BE RESPONSIBLE TO SEE THAT THEIR PURCHASED EQUIPMENT WILL FIT THE SPACES AVAILABLE. IN CERTAIN INSTANCES NOTE THAT THE EQUIPMENT IS MENTIONED BY NAME IN THE EQUIPMENT SCHEDULES. IN THESE CASES IT IS THAT EQUIPMENT WHOSE DIMENSIONS AND CONNECTION ARRANGEMENTS HAVE BEEN USED FOR THE PREPARATION OF THE LAYOUTS SHOWN ON THE WORKING DRAWINGS. SHOULD THE USE OF EQUIPMENT BY OTHER APPROVED MANUFACTURERS OR OF OTHER PHYSICAL SHAPE THAN THOSE SHOWN ON THE DRAWINGS BE PROPOSED, THE CONTRACTOR SHALL CONFIRM THE EQUIPMENT WILL FIT WITHIN THE ALLOTTED SPACE WITHOUT ARCHITECTURAL MODIFICATIONS OR IMPACT

ON OTHER TRADES. B. ALL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING, AND REPAIRING. PROVIDE SUFFICIENT SERVICE ACCESS TO ALL EQUIPMENT. BEFORE STARTING WORK THIS CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, STRUCTURAL, POWER, INTEGRATE THE VARIOUS ELEMENTS OF THE MECHANICAL SYSTEMS TO AVOID INTERFERENCES AND

LIGHTING AND FIRE ALARM PLANS, SHOP DRAWINGS AND SPECIFICATIONS TO SEQUENCE, COORDINATE AND 3.2 MANUFACTURER'S DIRECTIONS

A. THE MANUFACTURER'S PUBLISHED DIRECTIONS SHALL BE FOLLOWED IN THE DELIVERY, STORAGE PROTECTION, INSTALLATION, PIPING AND WIRING OF ALL EQUIPMENT AND MATERIAL. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER IN WRITING OF ANY CONFLICT BETWEEN THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND THE MANUFACTURER'S DIRECTIONS, AND SHALL OBTAIN INSTRUCTIONS BEFORE PROCEEDING WITH THE WORK. SHOULD THE CONTRACTOR PERFORM ANY WORK BEFORE RECEIVING SUCH INSTRUCTIONS, HE SHALL BEAR ALL COSTS ARISING IN CONNECTION WITH THE DEFICIENCIES.

3.3 CONSTRUCTION REQUIREMENTS A. THE DRAWINGS AND SPECIFICATIONS SHOW PIPE AND DUCT SIZES, GENERAL ROUTING AND LOCATION, AND DESCRIBE THE VARIOUS SYSTEMS. THESE DOCUMENTS DESCRIBE AND SIZE EQUIPMENT, ITS GENERAL LOCATION, USAGE, SUPPORT AND AUXILIARY REQUIREMENTS. THEY DESCRIBE MOST, BUT NOT ALL OF THE

MATERIALS AND THEIR USAGE FOR THIS PROJECT. CONTRACT DOCUMENTS DO NOT DETAIL ALL JOB REQUIREMENTS. THEY DO NOT SHOW LAYOUTS. LOCATIONS. OR ELEVATIONS OF DUCTS, ANCHORS, SLEEVES, HANGERS, UNDERFLOOR DRAINS, OR ACCESS DOORS. THEY DO NOT SHOW FINAL PRECISE LOCATIONS OF EQUIPMENT BY DIMENSIONS IN ALL INSTANCES.

THE EXACT LOCATION OF EACH ITEM SHALL BE DETERMINED BY REFERENCE TO THE PROJECT CONTRACT DRAWINGS, AND TO DETAILS, EQUIPMENT DRAWINGS, AND ROUGH-IN DRAWINGS, BY MEASUREMENTS AT THE BUILDING, AND IN COOPERATION WITH THE VARIOUS TRADES. MINOR RELOCATION NECESSITATED BY THE CONDITIONS AT THE SITE OR DIRECTED BY THE OWNER SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER. WHERE CONFLICTS OCCUR, WORK WITH ALL INVOLVED TRADES AND RESOLVE THE CONFLICT PRIOR TO ERECTION OF ANY WORK IN THE AREA INVOLVED.

3.4 FABRICATION OF PIPE A. PIPING SHALL FOLLOW AS CLOSELY AS POSSIBLE THE ROUTES SHOWN ON THE DRAWINGS, TAKING INTO

SWABBED IF NECESSARY, AND ANY RUST AND DIRT REMOVED.

CONSIDERATION CONDITIONS TO BE MET AT THE SITE. B. SHOULD ANY UNFORESEEN CONDITIONS ARISE, PIPING SHALL BE CHANGED OR REROUTED AS REQUIRED AFTER PROPER APPROVAL HAS BEEN OBTAINED BY OWNER. C. PIPING SHALL BE CLEANED WHEN IT IS INSTALLED. BEFORE INSTALLATION IT SHALL BE CHECKED, UP ENDED,

3.5 EQUIPMENT FOUNDATIONS, HANGERS AND SUPPORTS A. FOR FLOOR MOUNTED MECHANICAL EQUIPMENT, PROVIDE CONCRETE HOUSEKEEPING PADS NOT LESS THAN 3-1/2 INCH THICK REINFORCED WITH NO. 3 DOWELS AND NO. 3 BARS, 2 FEET-0 INCHES ON CENTER EACH WAY. B. SUSPENDED EQUIPMENT SHALL HAVE SUPPORTS CONSISTING OF MANUFACTURED METAL FRAMING OR HANGERS CONFORMING TO SECTION 220529.

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

3.8 QUIET OPERATION 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.

BE PAID BY THE CONTRACTOR PROVIDING THE ALTERNATE EQUIPMENT REQUIRING THE CHANGE.

3.9 CUTTING AND PATCHING 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.

3.10 TESTS 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.

END OF SECTION.

SECTION 220523 - GENERAL DUTY VALVES PART 1 - GENERAL

1.1 SCOPE OF WORK A. REFER TO SECTION 220500.

PART 2 - PRODUCTS 2.1 WATER SYSTEM VALVES

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

PART 3 - EXECUTION

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

SECTION 220529 - HANGERS AND SUPPORTS

1.1 SCOPE OF WORK

A. REFER TO SECTION 220500.

PART 2 - PRODUCTS

2.1 GENERAL 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 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.

2.4 BUILDING ATTACHMENTS A. 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.

3.1 PREPARATION

TRANSMITTED TO CONNECTED EQUIPMENT

END OF SECTION.

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. 3.4 PROVISIONS FOR MOVEMENT 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

3.5 INSULATED PIPING REQUIREMENTS A. HANGERS FOR INSULATED COLD PIPING SHALL BE PLACED AROUND THE OUTSIDE OF THE INSULATION AND 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. 3.6 HANGER SPACING AND ROD SIZES 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:

PIPE SIZE MAXIMUM HANGER SPACING MINIMUM ROD SIZE 1/2 INCH 3/8 INCH 3/4 INCH 5 FEET 3/8 INCH 1 INCH 6 FFFT 3/8 INCH 1-1/4 INCH 6 FEET 3/8 INCH

1-1/2 INCH 8 FEET 3/8 INCH 2 INCH AND LARGER 8 FEET 1/2 INCH B. AT NO TIME SHALL ANY SECTION OF PIPE HAVE LESS THAN TWO SUPPORTS

SECTION 220553 - IDENTIFICATION PART 1 - GENERAL

1.1 SCOPE OF WORK A. REFER TO SECTION 220500. B. LABEL ALL NEW EQUIPMENT AND PIPING SYSTEMS.

AND BE PLACED SO THEY ARE EASY TO READ.

PART 2 - PRODUCTS

PART 3 - EXECUTION

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

2.2 VALVE TAGS A. MULTILAYER, MULTICOLOR PLASTIC LABELS WITH MECHANICAL ENGRAVING AND CHAIN FOR ATTACHMENT TO

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

3.1 PIPE LABELS A. INSTALL PIPE LABELS WHERE PIPING IS EXPOSED OR ABOVE AN ACCESSIBLE CEILING AT MAXIMUM 20 FT.

3.2 VALVE TAGS A. ATTACH TAGS TO VALVES USING CHAIN. PROVIDE A VALVE SCHEDULE FOR MOUNTING IN THE MECHANICAL

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

END OF SECTION.

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.

SECTION 221316 - SANITARY WASTE AND VENT PIPING

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

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

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

END OF SECTION

D. SCOTT BROWN 89097



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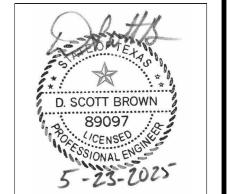
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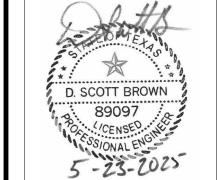
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LEVEL 1 PLUMBING PLAN

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KEY PLAN

NO WORK/

REVISION SUMMARY:

PRINTED SHEET PER UPDATED TEXT

LOCATIONS ON UPDATED FOOD

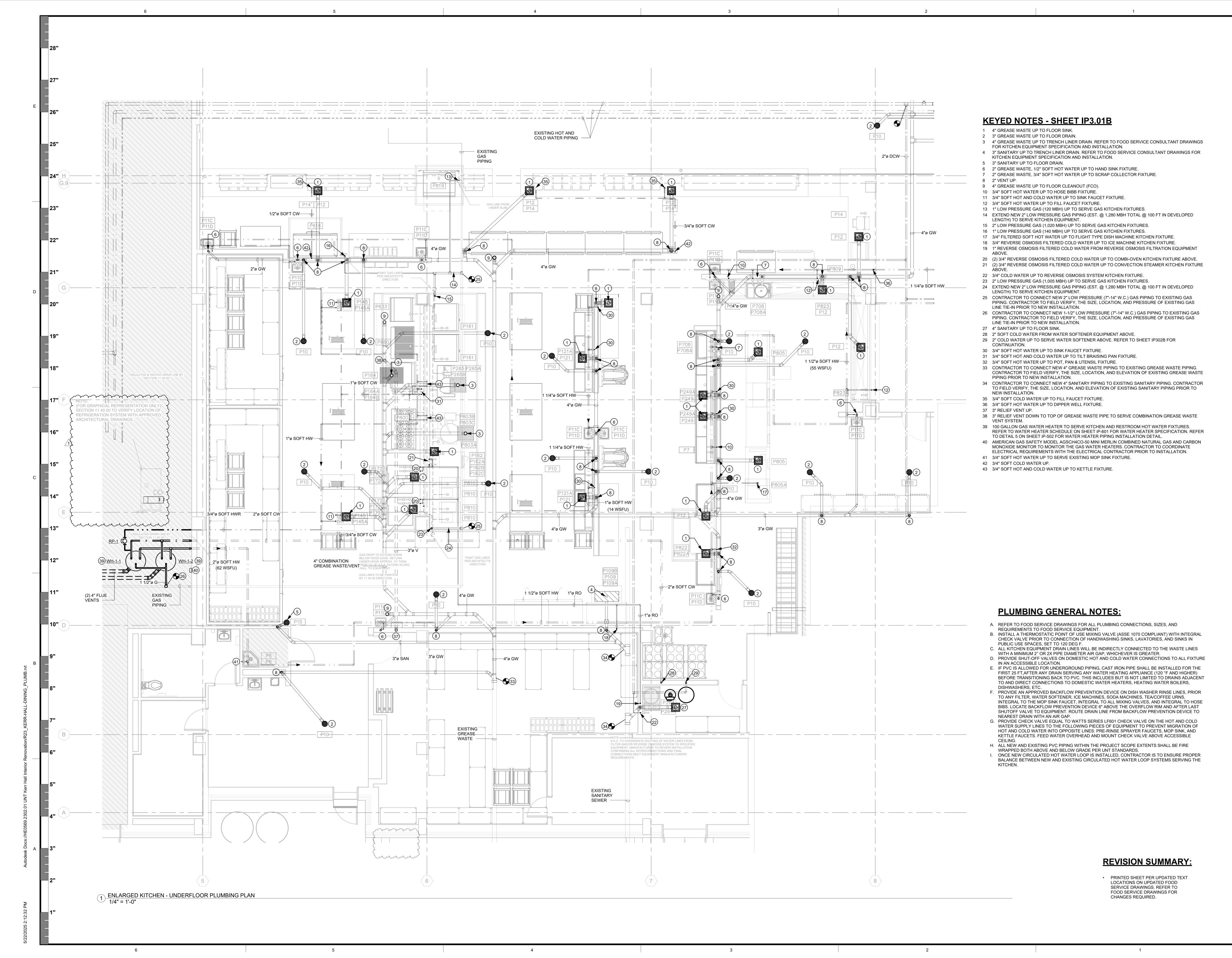
SERVICE DRAWINGS. REFER TO FOOD SERVICE DRAWINGS FOR

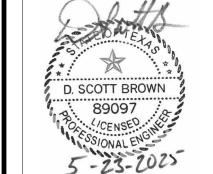
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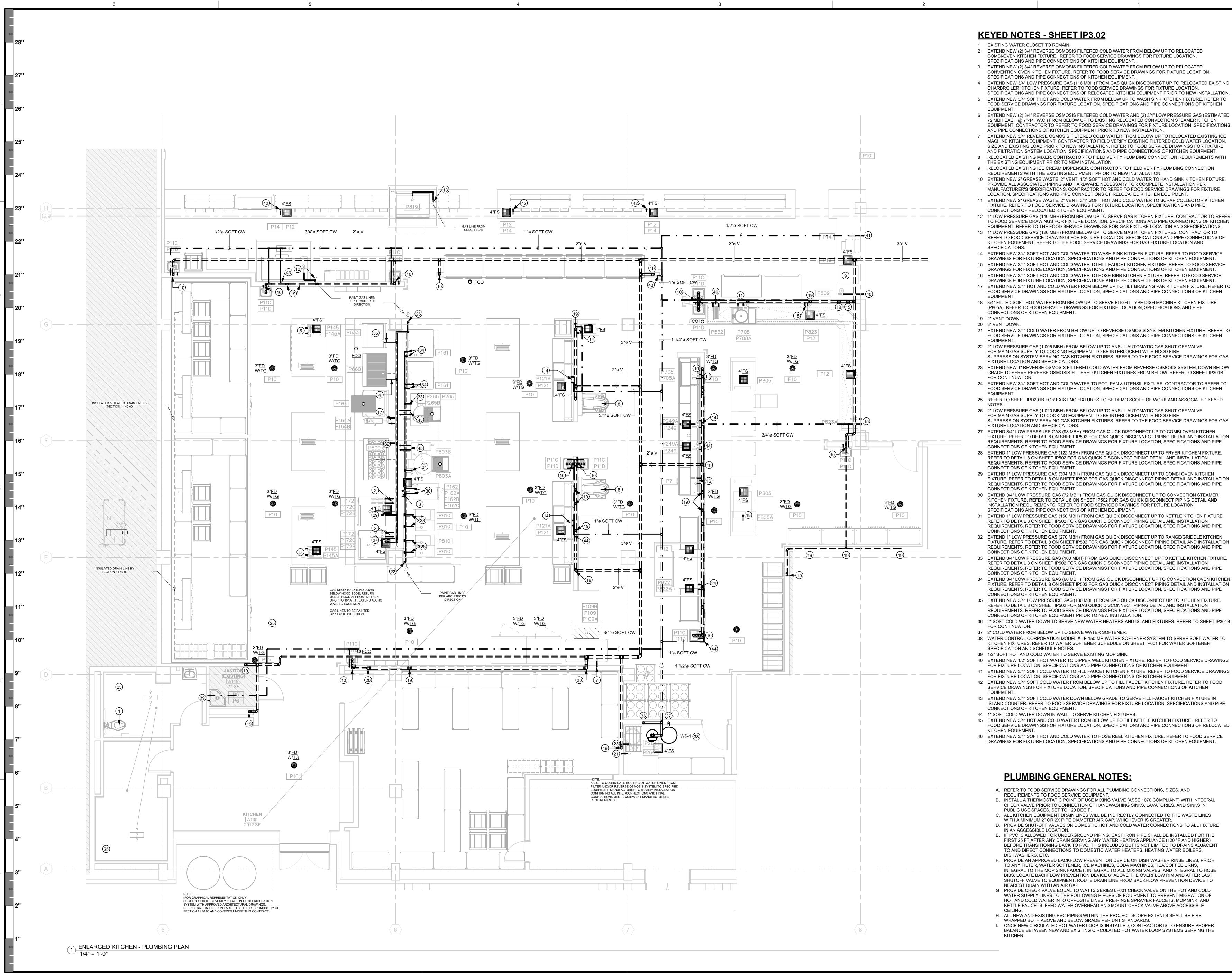
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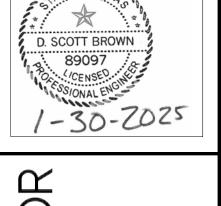
- 1 EXISTING WATER CLOSET TO REMAIN. 2 EXTEND NEW (2) 3/4" REVERSE OSMOSIS FILTERED COLD WATER FROM BELOW UP TO RELOCATED
- COMBI-OVEN KITCHEN FIXTURE. REFER TO FOOD SERVICE DRAWINGS FOR FIXTURE LOCATION. SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT 3 EXTEND NEW (2) 3/4" REVERSE OSMOSIS FILTERED 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 HARBROILER 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
- 6 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. 7 EXTEND NEW 3/4" REVERSE OSMOSIS FILTERED COLD WATER FROM BELOW UP TO RELOCATED EXISTING ICE
- AND FILTRATION SYSTEM LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT. 8 RELOCATED EXISTING MIXER. CONTRACTOR TO FIELD VERIFY PLUMBING CONNECTION REQUIREMENTS WITH THE EXISTING EQUIPMENT PRIOR TO NEW INSTALLATION. 9 RELOCATED EXISTING ICE CREAM DISPENSER. CONTRACTOR TO FIELD VERIFY PLUMBING CONNECTION
- REQUIREMENTS WITH THE EXISTING EQUIPMENT PRIOR TO NEW INSTALLATION. 10 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
- 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.
- 16 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. 17 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
- 18 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.
- 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 22 2" LOW PRESSURE GAS (1,005 MBH) FROM BELOW UP TO ANSUL AUTOMATIC GAS SHUT-OFF VALVE
- 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
- 24 EXTEND NEW 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
- 25 REFER TO SHEET IPD201B FOR EXISTING FIXTURES TO BE DEMO SCOPE OF WORK AND ASSOCIATED KEYED
- 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 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.
- 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. 36 2" SOFT COLD WATER DOWN TO SERVE NEW WATER HEATERS AND ISLAND FIXTURES. REFER TO SHEET IP301B
- 37 2" COLD WATER FROM BELOW UP TO SERVE WATER SOFTENER.
- 38 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, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN EQUIPMENT.
- SERVICE DRAWINGS FOR FIXTURE LOCATION, SPECIFICATIONS AND PIPE CONNECTIONS OF KITCHEN 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
- 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 PIPE CONNECTIONS OF RELOCATED KITCHEN EQUIPMENT.

PLUMBING GENERAL NOTES:

- A. REFER TO FOOD SERVICE DRAWINGS FOR ALL PLUMBING CONNECTIONS, SIZES, AND
- REQUIREMENTS TO FOOD SERVICE EQUIPMENT. 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
- 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
 - 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
- 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



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www.purdy-mcguire.com SCOTT BROWN, ROJECT MGR. MITCHELL HENTON MITCHELL HENTON CHRIS WOODYARI JOHN KNOWLES

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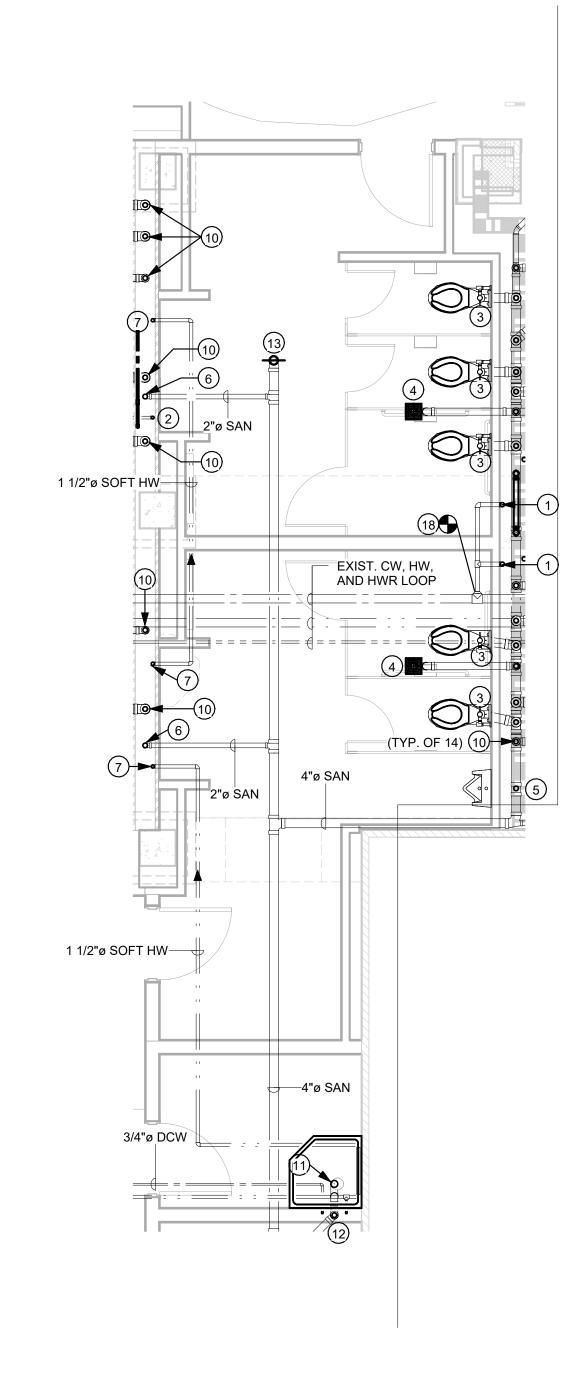
PLUMBING ENLARGED reanorHL NO. HE0569.2302.0

REVISIONS DESCRIPTION DATE ADDENDUM 2 05.23.25

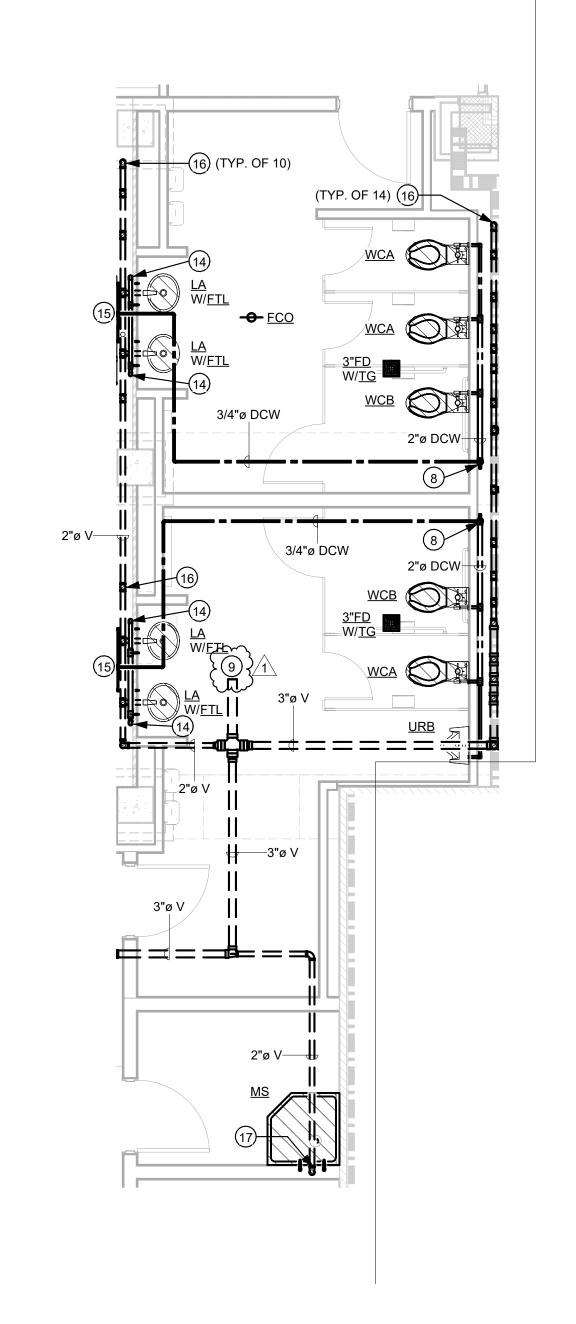
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PLUMBING ENLARGED PLANS AND RISERS

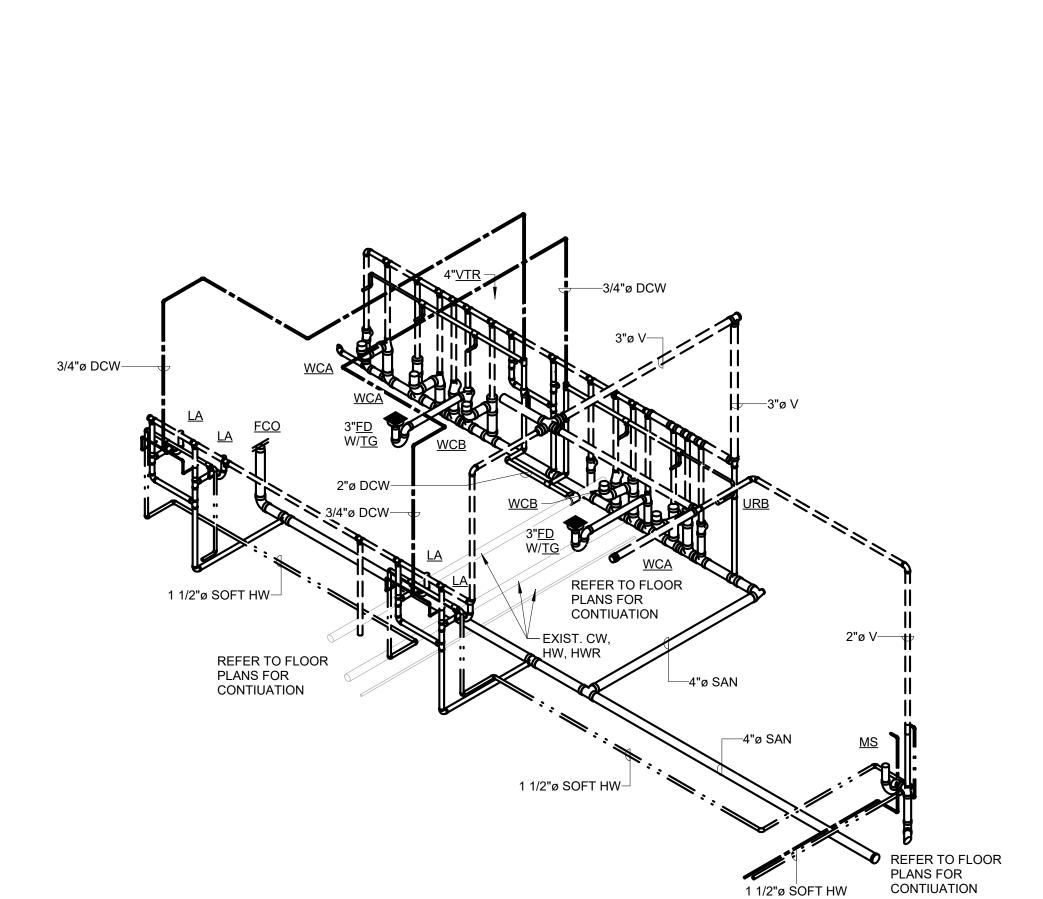
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1 ENLARGED DINING - RESTROOM - UNDERFLOOR PLUMBING PLAN 1/4" = 1'-0"



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



(3) DINNING RESTROOMS - PLUMBING RISER

KEYED NOTES - SHEET IP3.03B

- 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
- EXTEND NEW 4" VENT TO EXISTING VENT THRU ROOF. CONTRACTOR TO FIELD VERIFY SIZE AND LOCATION OF EXISTING VENT THRU ROOF PRIOR TO INSTALLATION. REFER TO DETAIL 11 ON SHEET IP501 FOR VENT THRU ROOF PIPING INSTALLATION REQUIREMENTS IF
- 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)

BALANCE BETWEEN NEW AND EXISTING CIRCULATED HOT WATER LOOP SYSTEMS SERVING THE

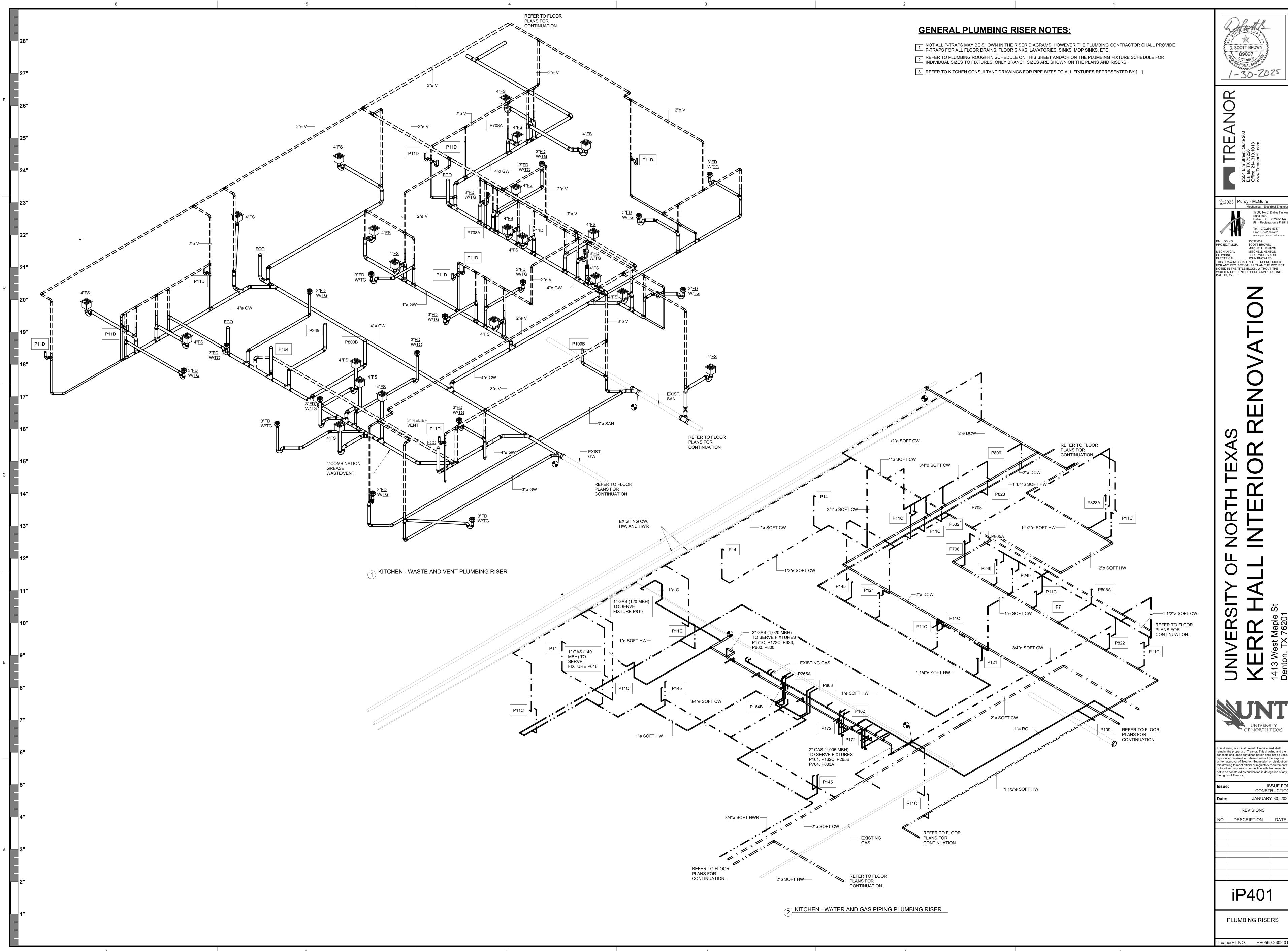
- BEFORE TRANSITIONING BACK TO PVC. THIS INCLUDES BUT IS NOT LIMITED TO DRAINS ADJACENT TO AND DIRECT CONNECTIONS TO DOMESTIC WATER HEATERS, HEATING WATER BOILERS,
- DISHWASHERS, ETC. E. ALL NEW AND EXISTING PVC PIPING WITHIN THE PROJECT SCOPE EXTENTS SHALL BE FIRE WRAPPED BOTH ABOVE AND BELOW GRADE PER UNT STANDARDS. F. ONCE NEW CIRCULATED HOT WATER LOOP IS INSTALLED, CONTRACTOR IS TO ENSURE PROPER

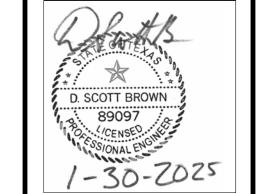
REVISION SUMMARY:

 REVISED VENT PIPING AND
 ASSOCIATED KEYED NOTE TO
 CONNECT TO EXISTING VENT THRU ROOF PER GC COMMENTS AND RESPONSES.

	ROUGH	-IN CON	NECTION	I SIZ
DESIGN.	DCW	DHW	SAN	VE
WCA	REF: FVW	-	4"	2
WCB (ADA)	REF: FVW	-	4"	2
FVW	1"	-	-	
URA / URB(ADA)	REF: FVU	-	2"	1-1
FVU	3/4"	-	-	
LA	REF: FTL	REF:F TL	2"	1-1
FTL	1/2"	1/2"	-	-
MS	REF: FTM	REF: FTM	3"	2
FTM	3/4"	3/4"	-	-
EWC	1/2"	-	2"	1-1
HD	-	-	REF: PLANS	RE PLA
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	-	-	-	RE PLA
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	-	

ACCEPTABLE ALTERNATE





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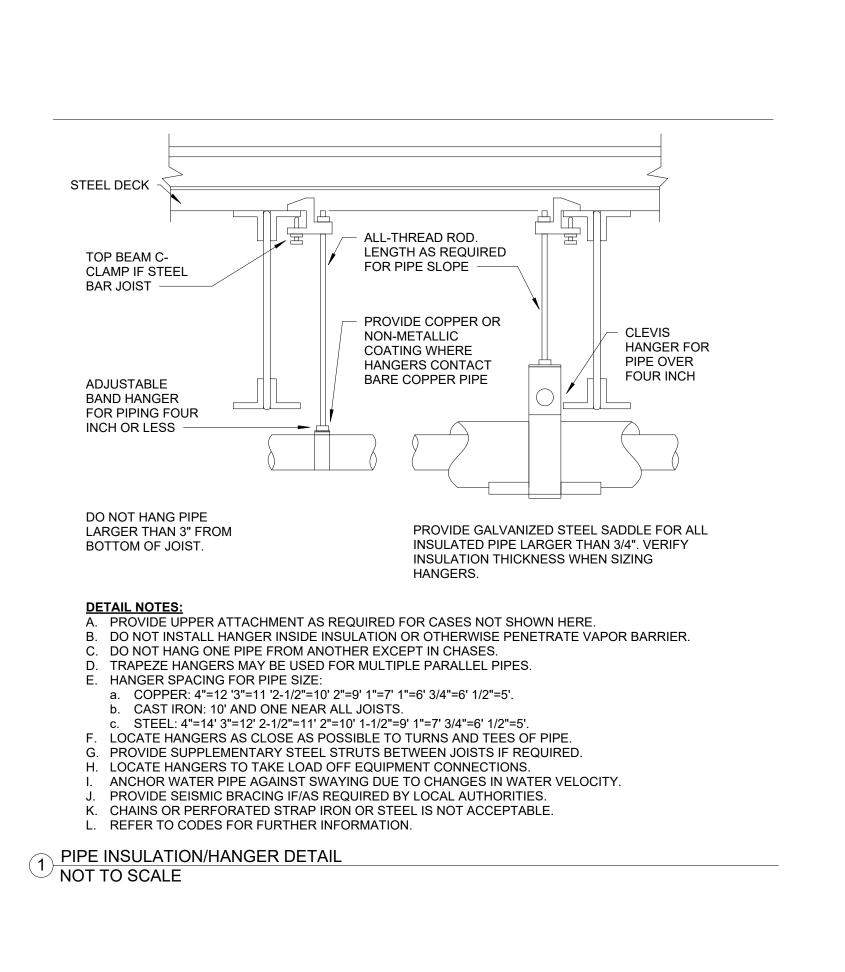
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NO DESCRIPTION DATE

iP401

PLUMBING RISERS



À - 14 A A A A A

— SEALANT

- GALV. STEEL SLEEVE

- RISER CLAMP

FLOOR —

— 3" X 3" X

1/4" STEEL

SLEEVE MATERIAL (1" AFF)

PLATE

BLOCK OR

DRYWALL

WALL -

PIPE AND/OR PIPE

WITH INSULATION

WALL (DO **NOT**

CONTINUE

CONTINUED THROUGH

INSULATION THROUGH

PIPE SLEEVE DETAIL

1" RIBBED

NEOPREN

E CORK

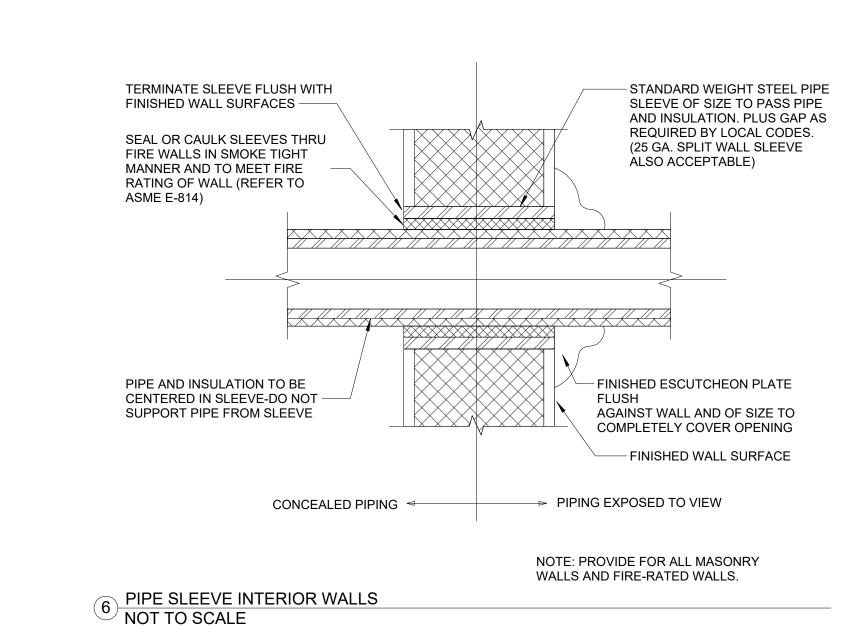
FIBERGLASS PACKING -

NOT TO SCALE

RISER CLAMP DETAIL

FIRE RATED WALLS) -

NOT TO SCALE



PROVIDE A SECTION OF HIGH COMPRESSION

POINT. INSULATION MAY BE HALF ROUND OR

GALVANIZED IRON

SHEET SHIELD ----

INSULATION —

STRENGTH INSULATION AT EACH HANGER

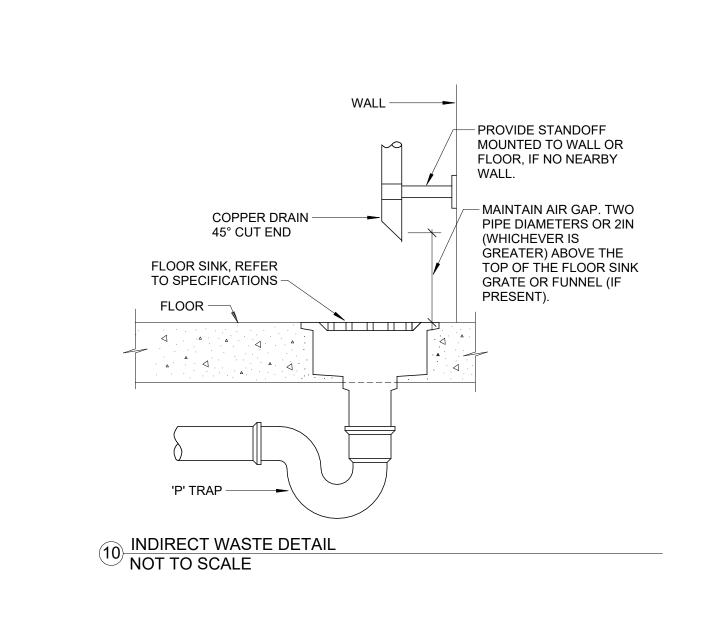
FULL ROUND AND EXTENDED 2" BEYOND

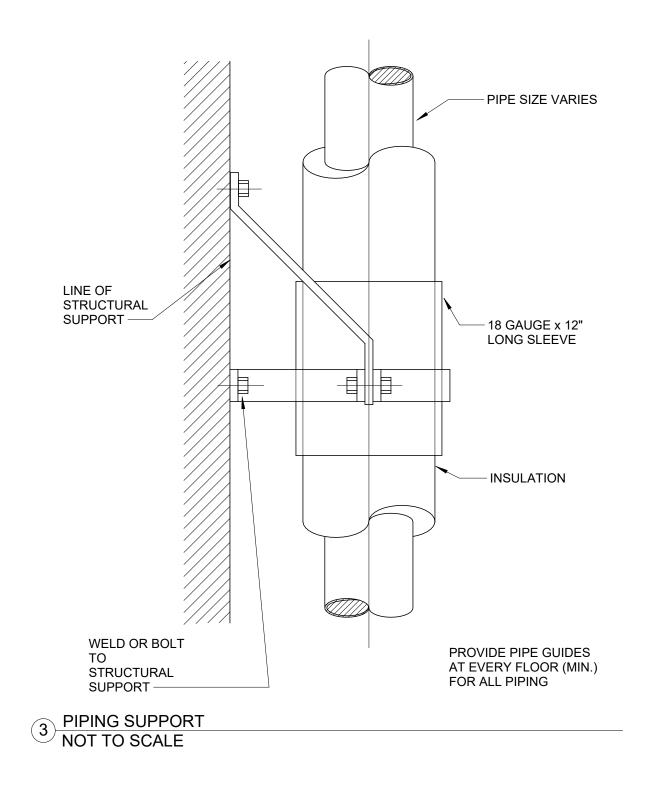
GALVANIZED SHIELD EACH WAY -

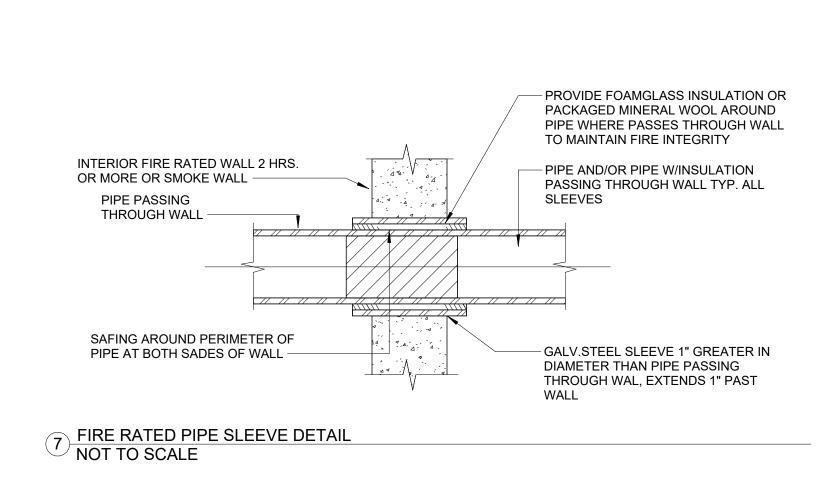
- ROD HANGER

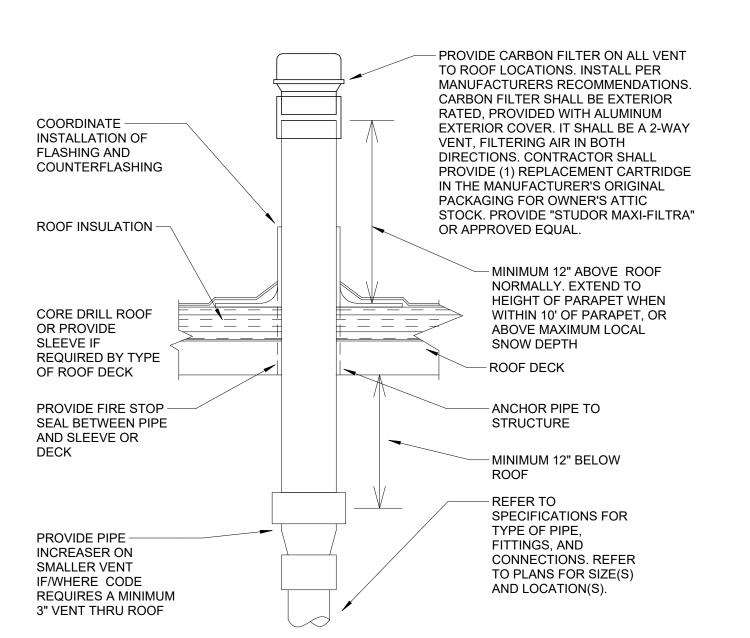
- INSULATION

2 PIPE HANGING SUPPORT DETAILS NOT TO SCALE



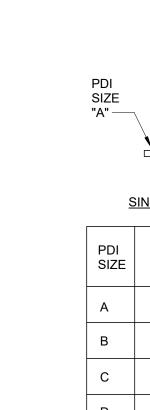






NOTE: LOCATE VENT TO ROOF A MINIMUM OF 3FT AWAY FROM ANY PROPERTY LINE, A MINIMUM OF 10FT HORIZONTAL OR 3FT VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, A MINIMUM OF 18IN FROM ANY ADJACENT WALL, PARAPET, EXPANSION JOINT, ROOF DRAIN, EQUIPMENT CURB, OR OTHER ROOF FEATURE, OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS. INSULATE LAST 6FT OF VENT PIPE INSIDE THE BUILDING PER SPECIFICATIONS. REFER TO LOCAL CODES FOR OTHER VENT TERMINATION REQUIREMENTS.

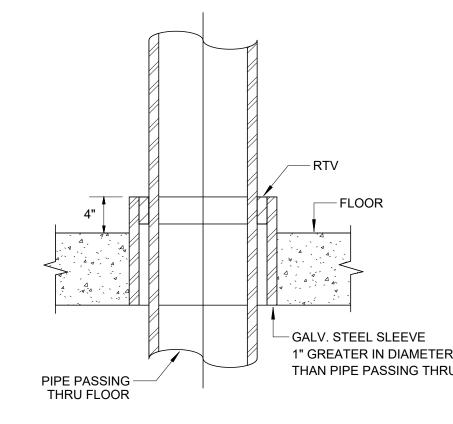
VENT THRU ROOF DETAIL NOT TO SCALE



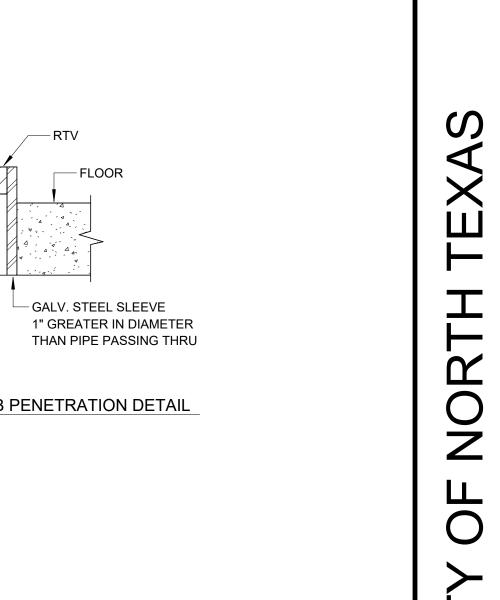
	0					
<u>s</u>	SINGLE FIXT	<u>URE</u>	MULTIPLE FIXTURES			
וסי	PIPE	FIXTURE	FIXTURE UNIT TABUL	ATION		
SIZE	SIZE	UNIT LOAD	FIXTURE	COLD	НОТ	
Ą	1/2"	1-11	VALVE WATER CLOSET	10		
3	3/4"	12-32	TANK WATER CLOSET	5		
0	1"	33-60	URINAL	5		
0	1-1/4"	61-113	LAVATORY/SINK	1.5	1.5	
	1-1/2"	114-154	JANITOR SINK	3	3	
=	2"	154-330	SHOWER/BATHTUB	2	2	

PC TO PROVIDE WATER HAMMER ARRESTORS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND 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



D. SCOTT BROWN 89097

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PROJECT MGR.

ECHANICAL

LUMBING LECTRICAL

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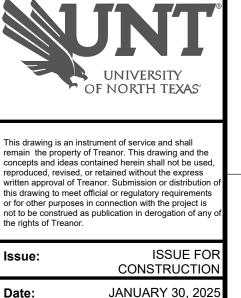
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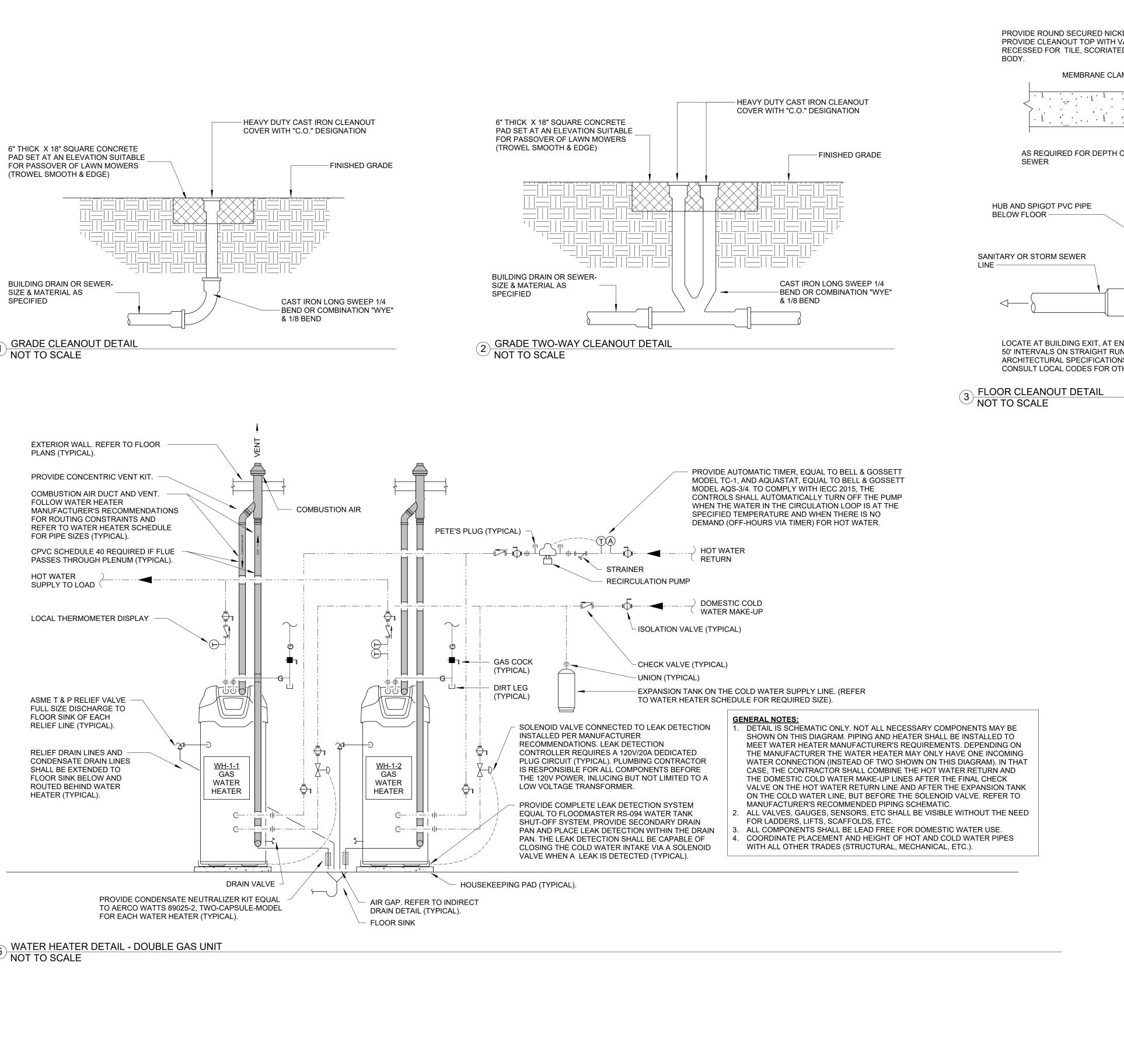
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PLUMBING DETAILS

FreanorHL NO. HE0569.2302.01



<u>INSIDE</u>

VERIFY SIZE OF

FITTING. —

MECHANICAL

SLEEVE SEAL

NOT TO SCALE

PIPE PENETRATION BELOW GRADE

FITTING —

CORE DRILL WITH

MANUFACTURER OF

<u>OUTSIDE</u>

SEALANT

SEALANT

MEMBRANE SET IN

- MEMBRANE CLAMP

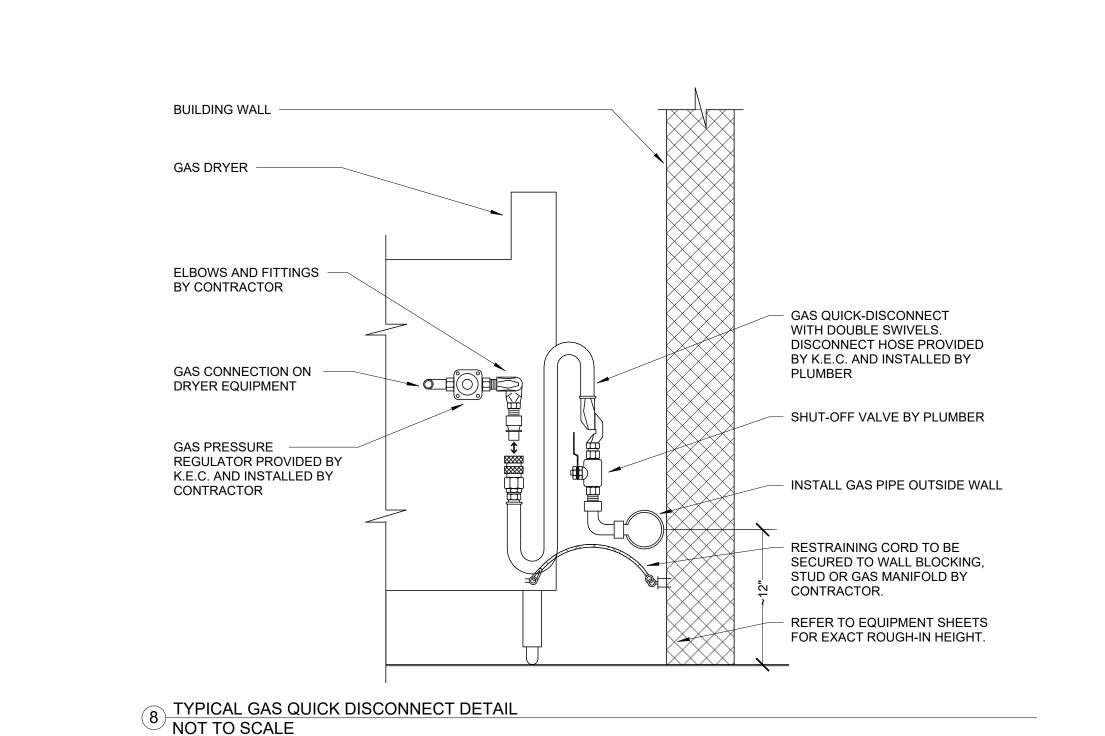
PIPE. REFER TO

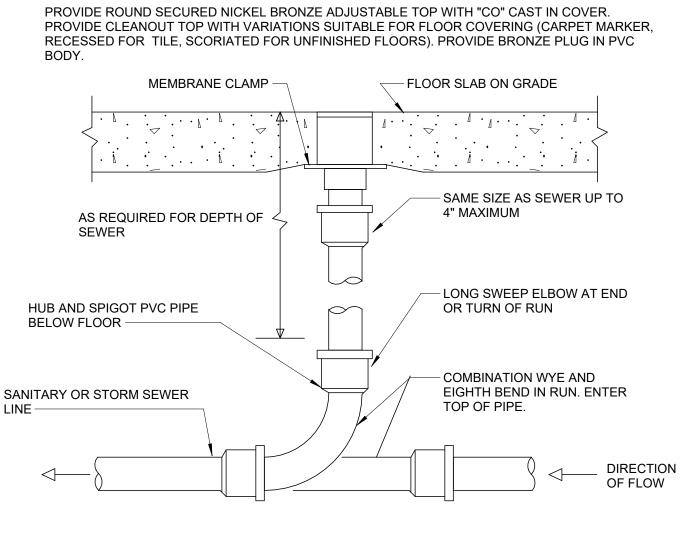
PLANS FOR SIZE.

- MECHANICAL

SLEEVE SEAL

FITTING





LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT 50' INTERVALS ON STRAIGHT RUNS. AND WHERE SHOWN ON PLANS, PROVIDE BACKFILL PER ARCHITECTURAL SPECIFICATIONS. LOCATED CLEARNOUTS WHERE THERE IS 18" CLEAR AROUND. CONSULT LOCAL CODES FOR OTHER FCO REQUIREMENTS.

PUBLIC LAVATORY

1/2" PIPE TAP OFF OF

CIRCULATED HOT WATER LINE

TO PUBLIC LAVATORY FAUCET

PIPE LENGTH METHOD. REFER

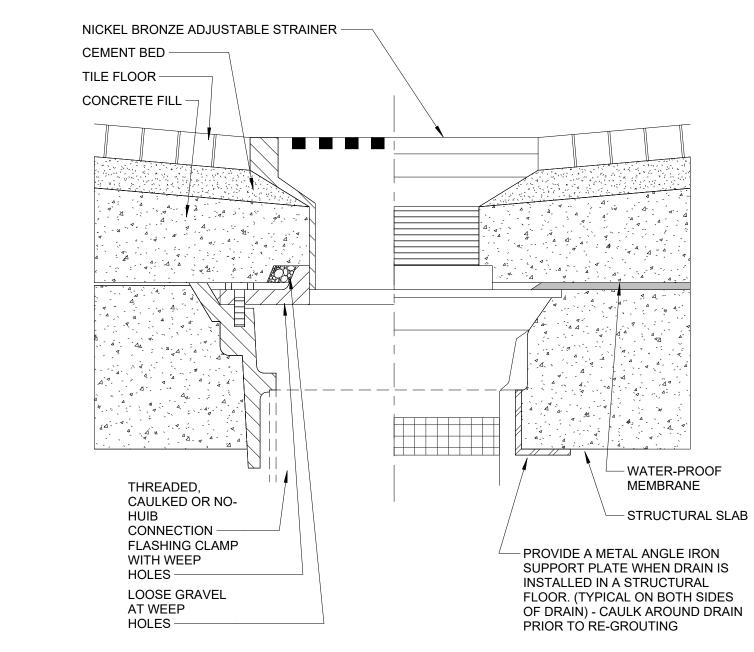
TO CHART FOR ALL REQUIRED

LENGTHS BASED ON PIPE SIZE.

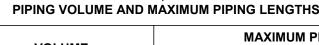
MUST BE 24" OR LESS PER

IECC MAXIMUM ALLOWABLE

AND FAUCET -



FLOOR DRAIN/SINK SUPPORT DETAIL NOT TO SCALE

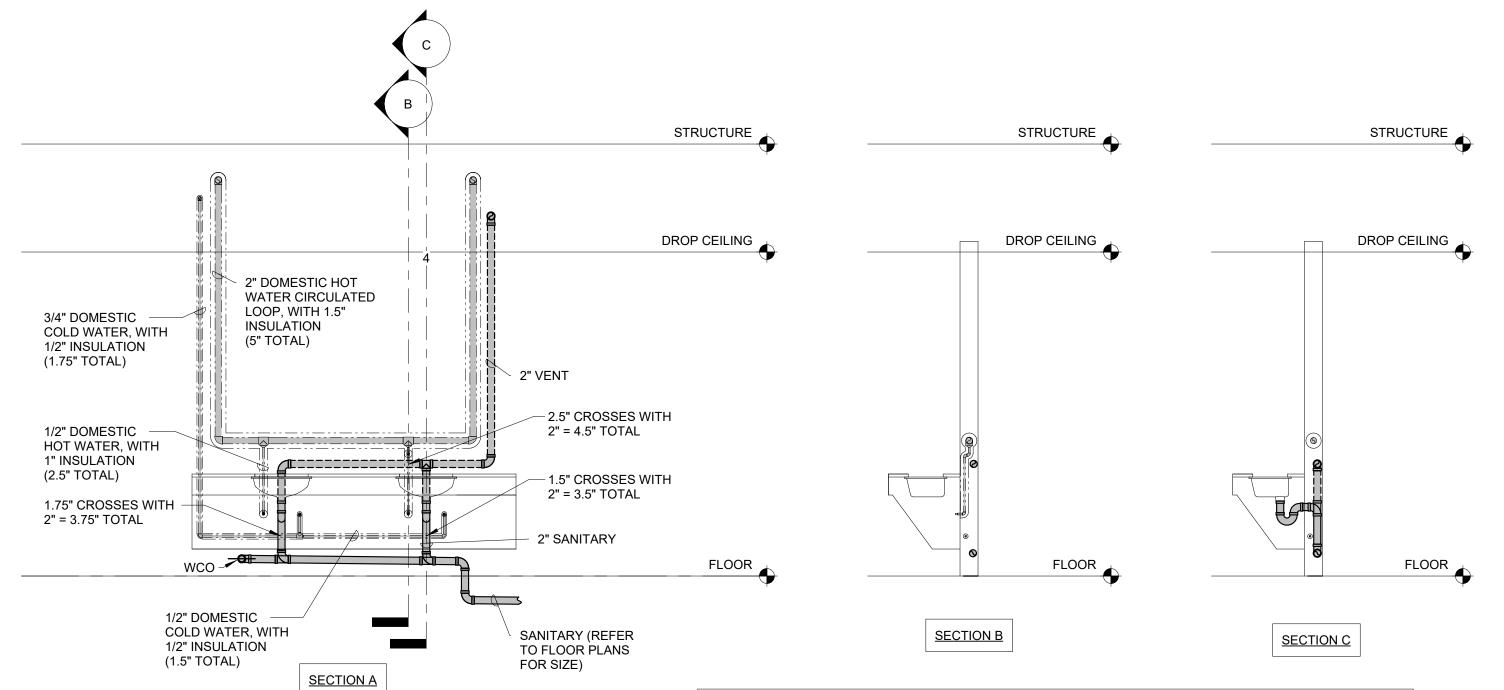


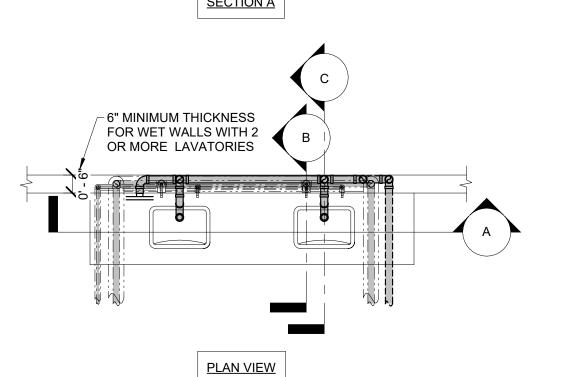
IECC 2015/2018, TABLE C404.5.1

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

CIRCULATED HOT WATER LAVATORY TAP DETAIL NOT TO SCALE

CIRCULATION LINE





GENERAL NOTES: A. THE PURPOSE OF THIS DETAIL IS TO SHOW HOW THE ENTIRE DOMESTIC HOT WATER RECIRCULATION LOOP CAN BE DROPPED DOWN AND FIT IN A LAVATORY WET WALL THAT IS ONLY 6" THICK. ALTERNATE PIPING ROUTES ARE ALLOWED AS LONG AS THE PIPING FITS WITH THE WET WALL SHOWN ON THE PLANS

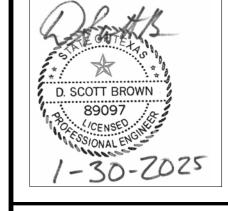
B. THE DOMESTIC HOT WATER RECIRCULATION LOOP MUST BE DROPPED DOWN IN THE WALL NEAR EACH LAVATORY BECAUSE IT IS REQUIRED IN THE INTERNATIONAL ENERGY CONSERVATION CODE. REFER TO DETAIL #6 ON THIS SHEET "CIRCULATED HOT WATER LAVATORY TAP DETAIL" FOR EXACT PIPE LENGTH RESTRICTIONS ON THE HOT WATER TAP.

C. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT DIMENSIONS OF THE WET WALL AT EACH LAVATORY LOCATION.

THIS DETAIL IS SCHEMATIC ONLY. THE CONTRACTOR SHALL COORDINATE EXACT PIPE ROUTING IN THE FIELD WITH ALL OTHER DISCIPLINES. ADDITIONAL FITTINGS AND PIPING MAY BE NECESSARY AT EACH LOCATION.

. REFER TO FLOOR PLANS FOR ACTUAL BRANCH PIPE SIZES. REFER TO THE PLUMBING FIXTURE SCHEDULE FOR ACTUAL PIPE ROUGH-IN SIZES TO INDIVIDUAL FIXTURES.

 $\underline{ 9} \, \underline{ \text{CIRCULATED DOMESTIC HOT WATER LAVATORY PIPING DIAGRAM - 6" THICK WALL NOT TO SCALE}$



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Mechanical - Electrical Engine 17300 North Dallas Parkw Tel: 972/239-5357 Fax: 972/239-5231 www.purdy-mcguire.com SCOTT BROWN, PROJECT MGR. MITCHELL HENTON MITCHELL HENTON CHRIS WOODYARD JOHN KNOWLES HIS DRAWING SHALL NOT BE REPRODUCED OR ANY PROJECT OTHER THAN THE PROJEC TED IN THE TITLE BLOCK, WITHOUT THE

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PLUMBING DETAILS

reanorHL NO. HE0569.2302.0

GENERAL NOTES (APPLIES TO ALL):

A REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

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

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

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.

1		<u>DOI</u>	ME211C	<u> </u>	WA	<u>IER</u>	<u>RECI</u>	<u>RCL</u>	<u>JLATION PUN</u>	<u>IP SCHEDULE</u>			
HEAD MOTOR DATA									BASIS OF DESIGN ELECTRICAL				
DESIG.	SERVES	TYPE	GPM	(FT)	EFF (%)	HP	RPM	VFD	MANUFACTURER	MODEL	VOLT	РН	NOTES
RP-1 W	WH-1-1 & WH-1-2	POTABLE WATER	6	30	XX	1/6	3300	YES	BELL & GOSSETT (B&G)	PL-36	120	1	ALL

IGENERAL NOTES (APPLIES TO ALL):

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS

2 SUBJECT TO COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THE SCHEDULE AND SPECIFICATIONS, APPROVED MANUFACTURERS ARE: B&G, PACO/GRUNDFOS, TACO, ARMSTRONG. 3 ALL SUBSTITUTIONS SHALL BE APPROVED, IN WRITING, PRIOR TO BID.

4 ALL PUMPS IN POTABLE WATER APPLICATIONS SHALL BE NSF 61 CERTIFIED LEAD FREE AND OF ALL BRONZE OR STAINLESS STEEL CONSTRUCTION.

5 PROVIDE 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

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

					EXPAN	SION TANK S	CHEDUL	<u>E</u>				
DESIGNATION	TYPE	SERVES	TANK TOTAL VOLUME (GAL)	TANK ACCEPTANCE VOLUME (GAL)	MAXIMUM PRESSURE (PSI)	MAXIMUM OPPERATING TEMPERATURE (°F)	P DIMENSIONS	HYSICAL FILLED WEIGHT (LBS)	MOUNTING	BASIS OF MANUFACTURER	DESIGN MODEL	NOTES
ET-1	BLADDER	WH-1-1 & WH-1-2	15	10.0	150	240	16" DIAMETER 24" HEIGHT	64	FLOOR MOUNTED	WATTS	DELTA-30	

GENERAL NOTES (APPLIES TO ALL):

A REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. B EQUIPMENT SHALL BE INSTALLED TO MEET ALL RECOMMENDATIONS OF THE MANUFACTURERS, MANUFACTURERS PIPING DIAGRAM, ETC.

C EXPANSION TANK SHALL BE ASME RATED.

D EXPANSION TANK SHALL BE NSF61 CERTIFIED LEAD FREE, FOR USE IN A DOMESTIC WATER SYSTEM.

E PLUMBING CONTRACTOR SHALL SET THE EXPANSION TANK PRESSURE CHARGE IN THE FIELD BASED ON THE PRESSURE OF THE COMPLETED SYSTEM FULLY INSTALLED WITH INCOMING CITY PRESSURE CONNECTED. PLUMBING CONTRACTOR SHALL FOLLOW MANUFACTURERS INSTRUCTIONS FOR SETTING THIS CHARGE IN THE FIELD. THE EXPANSION TANK SHALL NOT BE LEFT AT THE FACTORY PRE-CHARGE SETTING OF 40 PSI.

SUBJECT TO COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THE SCHEDULE AND NOTES ABOVE, EQUAL MANUFACTURERS INCLUDE THE FOLLOWING:

C. BELL & GOSSETT (B&G)

D. SAME MANUFACTURER AS THE SPECIFIED WATER HEATER G ALL SUBSTITUTIONS MUST BE APPROVED, IN WRITING, PRIOR TO BID.

1 NOT USED.

							<u>WAT</u>	ER SO	FTENER S	<u>SCHEDULE</u>										
			BASIS	S OF DESIGN			SYSTEM F	PERFORMANC	E				PHYSICAL				ELEC.	TRICAL		
DESIGNATION	SERVES	LOCATION	MANUFACTURER	MODEL	GALLONS PER DAY (ESTIMATE D)	PEAK FLOW (ESTIMATE D)	GRAIN EXTRACTING CAPACITY BETWEEN REGEN.	N WATER	VOLUME BETWEEN REGENERATION	DAYS BETWEEN OU	INLET / ITLET PIPE SIZE	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
WS-1	KITCHEN FIXTURES	KITCHEN STORAGE	WATER CONTROL	LF-150-MR	1,750 GPD	40 GPM	150,000	12 GPG	11,250 G	6.4	2" / 2"	1 TANKS / 16"	1 TANK / 24"	44" W x 24" D X	625 LBS	1.3	120	1	(3) 20A/1P	1 - 6

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 TAPFED 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

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

THE WATER SOFTENER SPECIFIED HAS A PRESSURE DROP OF 25 PSI AT PEAK FLOW.

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 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.

D. SCOTT BROWN

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PLUMBING SCHEDULES

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HEIGHTS AND DIMENSIONED LOCATIONS PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL NOTES, SYMBOLS AND

DETAILS D. EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY AND EXISTING DRAWINGS. HOWEVER, IT IS NOT INTENDED TO BE AN EXACT REPRESENTATION OF ACTUAL CONDITIONS. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS (WHICH INCLUDE BUT ARE NOT LIMITED TO BREAKER SIZES, WIRE SIZES, CONDUIT SIZES, ETC.) PRIOR TO PURCHASING ANY ELECTRICAL EQUIPMENT, ELECTRICAL CONTRACTOR SHALL ALSO FIELD VERIFY PANELBOARDS TO MAKE SURE 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. CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES PRIOR TO ROUGH-IN. NO CONDUCTORS SMALLER THAN AWG #12 SHALL BE USED FOR POWER CIRCUITS GREATER THAN 24 VOLTS AC.

G. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT WIRE SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS NOTED OTHERWISE. H. ALL CONDUCTORS GREATER THAN 60' IN LENGTH SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% OVER THE TOTAL LENGTH OF THE CIRCUIT CALCULATED AT 80% OF FULL LOAD OF THE OVERCURRENT DEVICE PROTECTING THE CONDUCTOR. CONTRACTOR SHALL PROVIDE PIG-TAIL OR ENCLOSED TERMINATION BLOCKS AS

REQUIRED TO LAND CIRCUITS ON DEVICES OR EQUIPMENT. ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE NEUTRAL CONDUCTORS SHALL NOT BE SHARED BETWEEN MULTIPLE SINGLE PHASE CIRCUITS. EACH SINGLE PHASE CIRCUIT SHALL HAVE A FULL SIZE DEDICATED

NEUTRAL CONDUCTOR. K. ALL INTERIOR ELECTRICAL HOMERUNS FROM PANELBOARD TO FIRST J-BOX OR DEVICE SERVED SHALL BE IN EMT CONDUIT. THE CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM THE OWNER TO USE ANY AMOUNT OF MC CABLE (FLEXIBLE METAL CLAD CABLE). IF THE OWNER DOES ALLOW MC CABLE, IT IS ONLY ALLOWED FOR FINAL CONNECTIONS TO LIGHT FIXTURES IN THE PLENUM, OR FINAL CONNECTIONS TO 120V ELECTRICAL DEVICES IN THE WALLS. NO SEGMENT OF MC CABLE SHALL EVER EXCEED SIX FEET IN LENGTH. REFER TO SPECIFICATIONS FOR

ADDITIONAL INFORMATION AND RESTRICTIONS. ALL LOW VOLTAGE WIRING INSTALLED IN CEILING SPACE THAT IS ALSO USED IN AIR PLENUM SHALL BE PLENUM RATED CONDUCTOR. WHERE OWNER 'S CONSTRUCTION STANDARDS REQUIRE THAT LOW VOLTAGE WIRING BE RUN IN CONDUIT, CONDUIT SHALL BE PROPERLY LABELED AND SUPPORTED M. FLEXIBLE CONDUIT SHALL ONLY BE USED FOR LIGHTING FIXTURE WHIPS AND MOTOR

CONNECTION. ANY OTHER USE MUST FIRST BE ALLOWED IN WRITING BY THE ENGINEER PRIOR TO INSTALLATION. N. FLEXIBLE CONDUIT LONGER THAN SIX FEET SHALL NOT BE ALLOWED EXCEPT WHERE SPECIFICALLY AUTHORIZED IN WRITING. O. ALL SPARE CONDUITS AND EMPTY CONDUITS SHALL HAVE A PULL STRING INSTALLED

FOR FUTURE USE. PULL STRING SHALL BE SECURED AT EACH END TO PREVENT ACCIDENTAL REMOVAL. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SELECTION OF OVERCURRENT/SHORT CIRCUIT PROTECTIVE DEVICES BASED ON CALCULATED PROSPECTIVE FAULT ENERGY AT EACH PANELBOARD PER SPECIFICATION SECTION 26 24 16 AND PROVIDE DEVICES MEETING REQUIRED SHORT CIRCUIT INTERRUPTING CAPACITIES (AIC RATING). PROVIDE OVERCURRENT PROTECTIVE DEVICE PER COORDINATION STUDY PER SPECIFICATION SECTION 26 24 16. THIS MAY BE DONE USING MANUAL METHODS FOR SIMPLE SYSTEMS; HOWEVER, THE USE OF RECOGNIZED COMPUTER PROGRAMS THAT HAVE BEEN VALIDATED SHOULD BE USED FOR LARGER SYSTEMS. THE RESULTS OF THESE COMPUTATIONS AND GRAPHICAL SOLUTIONS SHALL BE SUBMITTED TO THE ENGINEER WHEN DISTRIBUTION EQUIPMENT ARE SUBMITTED. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE SERVICE UTILITY

Q. PANELBOARD DIRECTORIES SHALL BE COMPLETELY FILLED OUT TO ACCURATELY IDENTIFY EACH CIRCUIT (EXISTING IIF APPLICABLE) AND NEW CIRCUITS) IN ALL PANELS WITHIN THE SCOPE OF WORK. OBTAIN BUILDING MANAGEMENT/OWNER'S APPROVAL OF IDENTIFICATION. DIRECTORIES SHALL BE TYPEWRITTEN. R. ALL ELECTRICAL PANELS, TRANSFORMERS, SWITCH BOARDS, MOTOR CONTROL CENTERS AND ALL OTHER ELECTRICAL EQUIPMENT SHALL BE LABELED WITH AN ENGRAVED NAMEPLATE INDICATING THE EQUIPMENT DESIGNATION. ELECTRIC CONNECTIONS TO PANELBOARDS AND BUS DUCTS SHALL BE MADE ONLY

WHEN PANELBOARD OR BUS DUCT HAS BEEN DE-ENERGIZED. SCHEDULE DOWN TIME WITH BUILDING MANAGEMENT/OWNER. T. JUNCTION BOXES AND/OR DEVICE BOXES SHALL NOT BE MOUNTED BACK TO BACK WHEN FLUSH MOUNTED IN A WALL. JUNCTION BOXES AND/OR DEVICE BOXES FLUSH MOUNTED ON OPPOSITE SIDES OF A WALL SHALL NOT BE INSTALLED IN THE SAME STUD SPACE.

U. ALL RECEPTACLES MOUNTED ABOVE OR BELOW KITCHEN COUNTERS OR COUNTERS WITH A SINK OR ANY OTHER WATER DISPENSING MECHANISM SHALL BE GFCI PROTECTED. ALL RECEPTACLES INSTALLED IN AN OUTDOOR LOCATION OR INTENDED TO PROVIDE POWER FOR VENDING MACHINES SHALL BE GFCI TYPE DEVICES. ELECTRICAL CONTRACTOR SHALL PROVIDE A 4"x4"x2-5/8" STEEL JUNCTION BOX WITH SINGLE GANG MUD RING AND 1" METAL CONDUIT TO A MINIMUM OF 4" ABOVE FINISHED CEILING IN ACCESSIBLE CEILING FOR ALL TEL/DATA DEVICES SHOWN ON DRAWINGS. COORDINATE EXACT DEVICE LOCATION WITH OWNER'S I.T. REPRESENTATIVE AND ARCHITECT. PROVIDE A PULL STRING INSTALLED FOR FUTURE USE. PULL STRING

SHALL BE SECURED AT EACH END TO PREVENT ACCIDENTAL REMOVAL. W. ELECTRICAL CONTRACTOR SHALL PROVIDE A 4"x4"x2-5/8" STEEL JUNCTION BOX WITH SINGLE GANG MUD RING AND 3/4" METAL CONDUIT TO A MINIMUM OF 4" ABOVE FINISHED CEILING IN AN ACCESSIBLE CEILING FOR ALL THERMOSTATS AND SENSORS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR AND ARCHITECT. PROVIDE A PULL STRING INSTALLED FOR FUTURE USE. PULL STRING SHALL BE SECURED AT EACH END TO PREVENT ACCIDENTAL REMOVAL. WIRING FOR SYSTEMS FURNITURE SHALL BE COORDINATED WITH FURNITURE WIRING

REQUIREMENTS PRIOR TO ROUGH IN. IF SYSTEM FURNITURE WIRING REQUIRES SHARING OF NEUTRAL CONDUCTORS, THE CONTRACTOR SHALL CONFIGURE THE OVERCURRENT PROTECTIVE DEVICE AT THE PANEL SUPPLYING POWER TO THE CIRCUITS SUCH THAT IF ONE CIRCUIT IS INTERRUPTED ALL CIRCUITS SHARING THAT SAME NEUTRAL CONDUCTOR ARE ALSO INTERRUPTED. THIS CAN BE DONE WITH MULTI-POLE CIRCUIT BREAKERS OR UL LABELED HANDLE TIES. THE PANEL SCHEDULE SHALL INDICATE WHERE CIRCUITS HAVE BEEN CONFIGURED TO TRIP TOGETHER. WIRING AT EXPOSED STRUCTURE: AT ALL LOCATIONS WHERE THERE IS NO CEILING, ALL WIRES / CABLES SHALL BE INSTALLED IN CONDUIT (INCLUDING ALL FIRE ALARM, TECHNOLOGY, SECURITY, BMS, ETC). ALL CONDUITS SHALL BE PROVIDED AS PART OF THIS CONTRACT. CONDUITS SHALL BE INSTALLED AS HIGH AS POSSIBLE IN A NEAT AND PROFESSIONAL MANNER, RUNNING LEVEL AND PARALLEL TO THE LINES OF THE

ELECTRICAL AND FIRE ALARM CONTRACTOR SHALL REFERENCE THE MECHANICAL FRONT SHEET M0.01 FOR "MEP SHARED SYSTEM COORDINATION SCOPE OF WORK

AA. LOW VOLTAGE COORDINATION: REFER TO TECHNOLOGY DRAWINGS FOR ALL DIVISION 26 RESPONSIBILITIES REGARDING ROUGH-IN, POWER REQUIREMENTS, AND OTHER COORDINATION ITEMS FOR IT. SECURITY, A/V AND OTHER LOW VOLTAGE SYSTEMS.

AB. COORDINATE ALL CEILING MOUNTED ITEMS WITH ARCHITECTURAL REFLECTED PLANS (RCP). IF ARCHITECTURAL RCP DOES NOT INDICATE THE LOCATION FOR ANY CEILING

MOUNTED ITEMS, CONFIRM WITH ARCHITECT THE EXACT LOCATION PRIOR TO INSTALLATION. AC. REFER TO MECHANICAL SHEETS FOR EXACT LOCATIONS OF ALL MECHANICAL

AD. ANY CONDUIT THAT IS ROUTED UNDERGROUND OR IN-SLAB SHALL BE A MINIMUM OF 1" CONDUIT.

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

AF. CONTRACTOR SHALL RELOCATE ELECTRICAL CONNECTIONS ASSOCIATED WITH ALL RELOCATED MECHANICAL EQUIPMENT. REFER TO HVAC AND PLUMBING PLANS AND COORDINATE FINAL LOCATIONS WITH MECHANICAL CONTRACTOR IN THE FIELD. AG. WHERE REQUIRED PER NEC 406.12(4), RECEPTACLES SHALL BE LISTED AS TAMPER-RESISTANT TYPE.

AH. CONTRACTOR SHALL PROVIDE A 120V CIRCUIT TO EACH VAV BOX INDICATED ON HVAC PLAN FOR CONNECTION OF CONTROLS. CIRCUIT NO MORE THAN FIVE (5) BOXES PER ONE (1) 20 AMP, 120V CIRCUIT.

AI. CONTRACTOR SHALL COORDINATE RELOCATION OF ELECTRICAL SERVICE TO ALL VAV AND FPB'S BEING RELOCATED UNDER THIS PROJECT, WITH ALL OTHER DISCIPLINES

AJ. TELEPHONE/DATA SUBCONTRACTOR SHALL COORDINATE THE TELEPHONE/DATA INSTALLATION WITH ALL OTHER SUBCONTRACTORS AND SHALL BEAR ANY COST

ALARM SYSTEM. UTILIZE CIRCUIT AS SHOWN ON PLANS

EXISTING FIRE ALARM SYSTEM.

ASSOCIATED FOR THE RELOCATION OF ANY TELEPHONE/DATA INSTALL WHICH CONFLICTS WITH OTHER CONTRACTOR'S EQUIPMENT. AK, FIRE ALARM CONTRACTOR SHALL PROVIDE 24V TRANSFORMER FOR UP TO 5 FIRE/SMOKE DAMPERS. PROVIDE CONTROL WIRE TO EACH DAMPER. REFER TO THE HVAC PLANS FOR LOCATIONS. FIRE/SMOKE DAMPERS SHALL INTERFACE WITH FIRE

AL. FIRE ALARM STROBE LIGHTS, SPEAKERS AND SMOKE DETECTORS SHALL BE TIED INTO

ELECTRICAL ALLOWANCES:

PROVIDE JUNCTION BOX FOR CARD READER AT EACH EXTERIOR DOOR WITH 1" CONDUIT

AND PULLSTRING UP TO ABOVE NEAREST ACCESSIBLE CEILING 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 FUTURE TELECOM BETWEEN FLOORS.

 PROVIDE POWER TO CEILING MOUNTED PROJECTOR AND MOTORIZED PROJECTION SCREEN WITH WALL MOUNTED SWITCH IN EACH CONFERENCE ROOM. • PROVIDE POWER AND DATA CONDUIT FOR (4) TVS PER FLOOR.

FIRE ALARM • FIRE ALARM ANNUNCIATOR PANEL SHALL BE LOCATED AT THE BUILDING MAIN

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

FIRE SMOKE DAMPERS

 PROVIDE DEDICATED 120V/20A CIRCUIT IN EACH ELECTRICAL ROOM TO PROVIDE POWER FOR FIRE SMOKE DAMPERS. POWER SHOULD BE RUN FROM PANEL TO 24V TRANSFORMER (PROVIDED BY FIRE ALARM CONTRACTOR) TO SERVE FIRE SMOKE DAMPERS

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

 STAIRWELLS: PROVIDE (2) 4FT [OR (1) 8FT] WALL MOUNTED LED FIXTURES AT EACH LANDING AND INTERMEDIATE LANDING. THE BACK OF EACH STAIR TREAD SHALL HAVE A MINIMUM OF 10 FC (PER NFPA1 14.12.1.3).

REFER TO LIGHTING CONTROLS NARRATIVE ON THIS SHEET.

 PROVIDE (1) 120V/20A DEDICATED CIRCUIT FOR BMS CONTROLS IN EACH ELECTRICAL ROOM. BMS CONTROLLER SHALL BE LOCATED IN EACH ELECTRICAL ROOM.

 PROVIDE (5) 120V/20A DEDICATED CIRCUITS FOR POWER TO VAV BOXES FOR EACH FLOOR. POWER SHOULD BE ROUTED TO 24V TRANSFORMERS NEAR EACH GROUP OF

GENERAL FIRE ALARM NOTES

A. THE CONTRACTOR SHALL DESIGN, PROVIDE, AND INSTALL ADDITIONAL, DEVICES AND SYSTEM COMPONENTS TO THE EXISTING FIRE ALARM SYSTEM SO THAT THE TOTAL SYSTEM IS A COMPLETE FIRE ALARM SYSTEM THROUGHOUT THE CONTRACT AREA. THE CONTRACTOR SHALL BE A FIRM LICENSED TO DESIGN AND INSTALL FIRE ALARM SYSTEMS IN THE PHYSICAL JURISDICTION IN WHICH THE SYSTEM IS TO BE INSTALLED. THE FIRM SHALL HAVE ALL CREDENTIALS AND PROOF OF REQUIRED INSURANCE SUBMITTED WITH THE BID DOCUMENTS.

B. COMPLETE FIRE ALARM PLANS AND EQUIPMENT CUT SHEETS FOR ALL FIRE ALARM EQUIPMENT SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW, APPROVAL AND PERMIT PRIOR TO INSTALLATION. SUBMITTAL DOCUMENTS SHALL INCLUDE VOLTAGE DROP CALCULATIONS FOR ALL FIRE ALARM CONDUCTORS. THESE SAME DOCUMENTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW TO ENSURE THE SYSTEM DOES NOT, WITHIN THE LIMITS OF APPLICABLE CODES AND REQUIREMENTS, CONFLICT WITH THE ARCHITECTURAL INTENT OF THE

THE COMPLETED FIRE ALARM SYSTEM SHALL BE AN INTELLIGENT ADDRESSABLE SYSTEM AND SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS. ALL DEVICES AND EQUIPMENT INSTALLED AS PART OF THIS CONTRACT WORK SHALL MATCH AS CLOSELY AS POSSIBLE THE EXISTING SYSTEM AND SHALL BE INTEGRATED COMPLETELY INTO THE EXISTING SYSTEM. THE SYSTEM SHALL INCLUDE ALL DEVICES SUCH AS, BUT NOT LIMITED TO, FLOW AND TAMPER SWITCHES, CEILING MOUNTED SMOKE DETECTORS, CEILING MOUNTED HEAT DETECTORS, DUCT SMOKE DETECTORS IN THE SUPPLY AND/OR RETURN DUCTS AS REQUIRED BY CODE AND BY THE LOCAL AUTHORITY HAVING JURISDICTION. DETECTORS AT ALL FIRE/SMOKE DAMPERS. SHUNT/TRIP CONTROL OF ELEVATORS, NOTIFICATION DEVICES AS REQUIRED BY APPLICABLE CODE, LOCAL AUTHORITY HAVING JURISDICTION, AND OWNER'S DESIGN STANDARDS. NOTIFICATION DEVICES SHALL BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT AND ALL OTHER SUCH LOCAL CODES.

D. ALL NEW DEVICES AND EQUIPMENT SHALL BE FULLY INTEGRATED INTO THE EXISTING FIRE ALARM SYSTEM AND THE FIRE ALARM CONTROL PANEL SHALL BE PROGRAMMED BY A FACTORY AUTHORIZED PROGRAMMER TO FUNCTION AS DESIGNED WITH THE NEW DEVICES AND EQUIPMENT.

THE CONTRACTOR SHALL BE FAMILIAR WITH ALL APPLICABLE CODES, REQUIREMENTS BY THE LOCAL AUTHORITY HAVING JURISDICTION, AND OWNER STANDARDS FOR CONSTRUCTION AND OPERATION OF FIRE ALARM SYSTEMS. ANY CHANGES TO THE FINAL INSTALLATION DUE TO THE CONTRACTOR NOT HAVING BEEN AWARE OF ANY OF THE ABOVE, SHALL BE MADE AT NO COST TO THE OWNER.

GENERAL DEMOLITION SCOPE:

A. THE EXISTING MAIN SERVICE SWITCHBOARD AND ALL DOWNSTREAM DISTRIBUTION PANELS NOT NOTED TO BE REMOVED ARE TO REMAIN.

B. ALL EXISTING LIGHT FIXTURES IN THE CONTRACT AREA SHALL BE REMOVED FROM ALL CEILING SPACES ALONG WITH ASSOCIATED CONDUITS, CONDUCTORS, AND CONTROLS.

C. ALL EXISTING "HARD-WIRED" EQUIPMENT IN THE EXISTING CONTRACT AREA THAT IS TO BE REMOVED SHALL BE DISCONNECTED FROM THE ELECTRICAL POWER SYSTEM AND RESPECTIVE CONDUITS AND CONDUCTORS SHALL BE REMOVED BACK TO THEIR RESPECTIVE SOURCE.

D. ALL WIRING DEVICES IN THE CONTRACT AREA SHALL BE REMOVED ALONG WITH ASSOCIATED CONDUITS AND CONDUCTORS BACK TO THEIR RESPECTIVE SOURCES. POWER SHALL BE RESTORED TO ANY REMAINING DEVICES ON THE SAME CIRCUIT AS THOSE BEING REMOVED.

E. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR TO REMOVE ANY CONDUITS. CONDUCTOR. SWITCHES. AND CONNECTIONS FOR ALL MECHANICAL EQUIPMENT TO BE REMOVED, BACK TO THE SOURCE OF THE RESPECTIVE ELECTRICAL SOURCE.

LIGHTING GENERAL NOTES:

A. MOUNT LIGHT SWITCHES AS INDICATED ON ARCHITECTURAL DRAWINGS (48" AFF UNLESS NOTED 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 G. WHEN SPECIFIC LIGHT FIXTURE TYPE HAS BEEN SPECIFIED IN THE FIXTURE INFORMATION,

ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE ASSEMBLY INCLUSIVE OF ALL PARTS AND 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.

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.

• 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

DIMMING TYPE UL924 DEVICES.

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.

 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 • 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

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

 PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSORS AND LOW VOLTAGE SWITCH AS INDICATED ON 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.

 PROVIDE PHOTOCELL AND MANUAL OVERRIDE SWITCH AS INDICATED ON ELECTRICAL PLANS PHOTOCELL SHALL ENABLE AUTOMATIC DIMMING IN ACCORDANCE WITH ENERGY CODE

MANUAL OVERRIDE SWITCH SHALL ENABLE MANUAL DIMMING & ON/OFF, AS WELL.

DIMMING TYPE UL924 DEVICE WHERE LIGHTING IS SHOWN TO BE DIMMABLE.

 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

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

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

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

REQUIREMENTS OF IECC SECTION C408 AND ANY OTHER REQUIREMENTS OF THE

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

2021 INTERNATIONAL FIRE CODE (IFC)

 CURRENT CAMPUS DESIGN GUIDELINES CITY OF DENTON LOCAL AMENDMENTS

- REVISED SECURITY ELECTRICAL ALLOWANCES

REVISION SUMMARY

D. SCOTT BROWN 89097

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SCOTT BROWN, ROJECT MGR. **MITCHELL HENTO** HANICAL MITCHELL HENTON CHRIS WOODYAR JOHN KNOWLES HIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJECT TED IN THE TITLE BLOCK, WITHOUT THE TTEN CONSENT OF PURDY-McGUIRE. IN

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ELECTRICAL NOTES & SYMBOLS

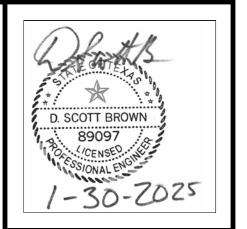
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DECERTAC: TO			
RECEPTACLES:	SPECIAL RECEPTACLE AS NOTED	FLOOR DEVICES	S: FLUSH FLOOR POKE-THRU WITH DUPLEX POWER
Ψ Ψ	SIMPLEX RECEPTACLE		BASIS OF DESIGN: LEGRAND 4AT SERIES POWER CONDUIT: (1) 3/4"
P	DUPLEX RECEPTACLE		FLUSH FLOOR POKE-THRU WITH DUPLEX POWERPLUS
*	QUADRUPLEX RECEPTACLE		COMMUNICATIONS • BASIS OF DESIGN: LEGRAND 4AT SERIES
•	DUPLEX RECEPTACLE ABOVE COUNTER QUADRUPLEX RECEPTACLE ABOVE COUNTER		 POWER CONDUIT: (1) 3/4" DATA CONDUIT: (1)1-1/4"
 ∯GFI	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE		FLUSH FLOOR POKE-THRU WITH DUPLEX POWER PLUS
⊕ GFI/WP	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE IN WEATHER-PROOF ENCLOSURE WITH WHILE-IN-USE COVER	(VAV)	COMMUNICATIONS AND AV BASIS OF DESIGN: LEGRAND 6AT SERIES COMPUTE CONTRICT. (4) 9/4"
PAFCI	ARC FAULT CIRCUIT INTERRUPTER RECEPTACLE		 POWER CONDUIT: (1) 3/4" DATA & AV CONDUIT: (1) 1-1/4"
USB	DUPLEX RECEPTACLE WITH 2 USB PORTS		FLUSH FLOOR POKE-THRU WITH QUADRAPLEX POWER • BASIS OF DESIGN: LEGRAND 4AT SERIES
Ψ	HALF SWITCHED DUPLEX RECEPTACLE		POWER CONDUIT: (1) 3/4"
0	HALF SWITCHED QUADRUPLEX RECEPTACLE FULLY SWITCHED DUPLEX RECEPTACLE		FLUSH FLOOR POKE-THRU WITH QUADRAPLEX POWER PLU COMMUNICATIONS
<u> </u>	FULLY SWITCHED QUADRUPLEX RECEPTACLE		 BASIS OF DESIGN: LEGRAND 6AT SERIES POWER CONDUIT: (1) 3/4"
	ISOLATED GROUND DUPLEX RECEPTACLE		DATA CONDUIT: (1)1-1/4" FLUSH FLOOR POKE-THRU WITH QUADRAPLEX POWER PLU
	ISOLATED GROUND QUADRUPLEX RECEPTACLE. REFER TO THE CIRCUIT TAGS ON THE FLOOR PLANS FOR ADDITIONAL	▼ AV	COMMUNICATIONS AND AV BASIS OF DESIGN: LEGRAND 8AT SERIES
	INFORMATION. ONLY HALF OR ALL OF THE RECEPTACLE MAY BE ISOLATED GROUND.	V V	POWER CONDUIT: (1) 3/4" DATA & AV CONDUIT: (1) 1-1/4"
Ф	CEILING MOUNTED SIMPLEX RECEPTACLE		FLUSH FLOOR DUPLEX IN 'POURED IN PLACE' BOX. BOX SHA
ф	CEILING MOUNTED DUPLEX RECEPTACLE		BE SUITABLE FOR ON-GRADE APPLICATIONS. • BASIS OF DESIGN:
 	CEILING MOUNTED QUADRUPLEX RECEPTACLE		POWER CONDUIT: (1)1" THE POWER CONDUIT: (1)1"
	MULTI OUTLET ASSEMBLY • BASIS OF DESIGN: LEGRAND SERIES		FLUSH FLOOR 'POURED IN PLACE' BOX WITH DUPLEX PLUS COMMUNICATION. BOX SHALL BE SUITABLE FOR ON-GRADE
	• POWER CONDUIT: (1)1" • DATA CONDUIT: (1)1-1/4"		APPLICATIONS. • BASIS OF DESIGN:
			• POWER CONDUIT: (1)1" • DATA CONDUIT: (1)1-1/4"
POWER:			FLUSH FLOOR 'POURED IN PLACE' BOX WITH DUPLEX
<u> </u>	CEILING MOUNTED JUNCTION BOX		PLUS COMMUNICATION AND AV. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS.
J	WALL JUNCTION BOX		 BASIS OF DESIGN: LEGRAND EFB45S-OG SERIES POWER CONDUIT: (1)1"
\$ M	SINGLE PHASE MANUAL MOTOR STARTER UP TO 1 HP		DATA & AV CONDUIT: (1) 1-1/4"
/\/	MOTOR		FLUSH FLOOR 'POURED IN PLACE' BOX WITH QUADRAPLEX BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS.
	COMBINATION MAGNETIC STARTER AND FUSED SWITCH V - SWITCH AMPERAGE RATING	<u>₩</u>	BASIS OF DESIGN: POWER CONDUIT: (1)1"
\boxtimes \vdash	W - NUMBER OF POLES X - FUSE SIZE		FLUSH FLOOR 'POURED IN PLACE' BOX WITH QUADRAPLEX PLUS COMMUNICATION. BOX SHALL BE SUITABLE FOR ON-
V/W/X/Y/Z	Y - NEMA RATING IF OTHER THAN NEMA 1	T	GRADE APPLICATIONS.
	Z - STARTER SIZE EXAMPLE: 100/3/80/3R/3		 BASIS OF DESIGN: LEGRAND EFB45S-OG SERIES POWER CONDUIT: (1)1"
X ^L	VARIABLE FREQUENCY DRIVE (VFD)		DATA CONDUIT: (1)1-1/4" FLUSH FLOOR 'POURED IN PLACE' BOX WITH QUADRAPLEX
V/W/X/Y	FUSED HEAVY DUTY DISCONNECT SWITCH V - SWITCH AMPERAGE RATING		PLUS COMMUNICATION AND AV. BOX SHALL BE SUITABLE F
	W - NUMBER OF POLES X - FUSE SIZE OR NON-FUSED (NF)	₩ W AV	ON-GRADE APPLICATIONS. • BASIS OF DESIGN: LEGRAND EFB45S-OG SERIES
V/W/NF/Y	Y - NEMA RATING IF OTHER THAN NEMA 1 EXAMPLE: 100/3/80/3R		 POWER CONDUIT: (1)1" DATA & AV CONDUIT: (1) 1-1/4"
M (M)	METER		
<u> </u>	GROUND BAR		
[TRANSFORMER - PLAN VIEW SOLID LINES INDICATE EQUIPMENT AND DASHED LINES	POWERED FURI	
'	INDICATE REQUIRED CLEARANCES.		FURNITURE FEED FLUSH FLOOR POKE-THRU DEVICE WITH WIRE POWER CONNECTION PLUS COMMUNICATIONS FEEDS
	ELECTRICAL PANEL OR DISTRIBUTION BOARD - PLAN VIEW SOLID LINES INDICATE EQUIPMENT AND DASHED LINES	(FF)	SYSTEMS FURNITURE. • BASIS OF DESIGN: LEGRAND 4FFATC15 SERIES
	INDICATE REQUIRED CLEARANCES.		 POWER CONDUIT: (1)3/4" DATA CONDUIT: (1)1-1/4"
<i>J</i> .	AUTOMATIC TRANSFER SWITCH - ON ONE-LINE OR RISER DIAGRAM ONLY		FURNITURE FEED FLUSH FLOOR 'POURED IN PLACE' BOX DEVICE WITH 8-WIRE POWER CONNECTION PLUS
<u>-</u>	GROUND - ON ONE-LINE OR RISER DIAGRAM ONLY	l lee	COMMUNICATIONS FEEDS TO SYSTEMS FURNITURE. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS.
Ţ	DELTA-WYE TRANSFORMER - ON ONE-LINE OR RISER DIAGRAM ONLY	FF	BASIS OF DESIGN: LEGRAND RFB2E-OG SERIES BOX
	STANDARD TRANSFORMER - ON ONE-LINE OR		• POWER CONDUIT: (1)1"
ر ا ي ً	RISER DIAGRAM ONLY CIRCUIT BREAKER - ON ONE-LINE OR RISER DIAGRAM ONLY		DATA CONDUIT: (1)1-1/4" WALL MOUNTED DEVICE WITH 8-WIRE POWER CONNECTION
<u> </u>	FUSE - ON ONE-LINE OR RISER DIAGRAM ONLY	PD	PLUS COMMUNICATIONS FEEDS TO SYSTEMS FURNITURE. • BASIS OF DESIGN: (2) J-BOXES WITH FACEPLATES
SPD	SURGE PROTECTIVE DEVICE (SPD)		POWER CONDUIT: (1)3/4"
			DATA CONDUIT: (1)1-1/4" POWER POLE DEVICE WITH 8-WIRE POWER CONNECTION PI
AUDIOVISUAL / DA	ATA / IT:	PP	COMMUNICATIONS FEEDS TO SYSTEMS FURNITURE. • BASIS OF DESIGN: LEGRAND SERIES
TV	TV OUTLET REFER TO FLOOR PLAN NOTES ABOUT		
CR	CEILING, WALL OR FLOOR MOUNTING.	I FOEND NOTE	c.
DC	CARD READER DOOR CONTACT	LEGEND NOTE:	
ML	MAGNETIC LOCK	2. DIMENSION	YMBOLS MAY BE USED IN PLANS. IS MAY DIFFER FROM PLANS. REFER TO FLOOR PLANS AND
EPO	EMERGENCY POWER OFF PUSHBUTTON	3. IF ONLY TH	AL SCHEDULES FOR ACTUAL SIZES. IE ELECTRICAL OR LIGHTING SYMBOLS LEGEND IS PRESENT ON
∇	DATA / COMMUNICATION ROUGH-IN	THIS SHEE	T, REFER TO THE OTHER SHEET (ELECTRICAL OR LIGHTING) FOI L SYMBOLS.
<u> </u>	CEILING MOUNTED JUNCTION BOX	4. CONTRACT	OR IS RESPONSIBLE FOR PROVIDING ALL ACCESSORIES FOR OUNTING OF ALL LIGHT FIXTURES AND ELECTRICAL DEVICES IN
J	WALL JUNCTION BOX CAMERA	SPECIFIC C	CEILING OR WALL CONDITIONS. REFER TO ARCHITECTURAL PLAI IONAL INFORMATION.
<u></u>	CAMERA	5. REFER TO	ARCHITECTURAL PLANS FOR ALL FINISH COLORS.
TEVT LABELO.		A. REFER	VICE AND POWERED FURNITURE NOTES: TO SYMBOLS ON THE FLOOR PLANS FOR ADDITIONAL
TEXT LABELS:	INDICATES EVICTING ITEM TO DEMAIN	B. A/V ANI	REMENTS FOR DEVICES (IG, USB, ETC). D DATA CONDUITS SHALL BE ROUTED TO ABOVE THE NEAREST
E / e ER / er	INDICATES EXISTING ITEM TO REMAIN INDICATES EXISTING ITEM TO BE RELOCATED	C. COORE	SIBLE CEILING OR TO THE NEAREST IDF/ MDF/ IT ROOM. DINATE ALL LOW VOLTAGE CONDUIT REQUIREMENTS WITH
ED / ed	INDICATES EXISTING ITEM TO BE REMOVED	TECHNOLOGY DRAWINGS AND TECHNOLOGY CONSULTANT. D. FOR FURNITURE FEEDS, COORDINATE WIRING CONFIGURATION WITH	
N	"N", BOLD AND/OR BLANK/NOTHING - INDICATES NEW, BY		URE CONSULTANT (3+1 OR 2+2) PRIOR TO ORDER. GURATION SHOWN ON THESE DRAWINGS IS FOR PLACEHOLDER
	CONTRACTOR INDICATES RECEPTACLE SHALL BE ON DEDICATED CIRCUIT. IF	ONLY.	TO ARCHITECTURAL PLANS FOR ALL FINISH COLORS.
D	CIRCUITING IS NOT YET INDICATED. RECEPTACLE MAY STILL BE	CONTR	ACTOR SHALL INCLUDE PRICING FOR A PREMIUM FINISH IN THE BID TO BE SELECTED BY THE ARCHITECT.
	DEDICATED WITHOUT "D" ANNOTATION IF IT IS SHOWN AS THE ONLY DEVICE ON A INDICATED CIRCUIT.	F. SUBJE	CT TO COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THE
H-1,3,5	ONE (1) THREE-POLE CIRCUIT	SCHEDULE AND NOTES ABOVE, EQUAL MANUFACTURERS INCLUDE TH FOLLOWING: LEGRAND, HUBBELL, FSR INC, LEVITON. 7. CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER OF ALL	
L-1	ONE (1) SINGE-POLE CIRCUIT		FIXTURES AND ELECTRICAL DEVICES (NEW OR SUBSTITUTES).
L- <u>1</u>	UNDERLINE OF CIRCUIT NUMBER INDICATES ISOLATED GROUND CIRCUIT		
>	CONTINUATION		
+XX"	INDICATES HEIGHT ABOVE FINISHED FLOOR ALL OUTLETS ARE 18" A.F.F. UNLESS NOTED OTHERWISE		
	The state of the s		
CONDUIT:			
<u></u>	CONDUIT		
	CONDUIT IN OR UNDER FLOOR		
	HOMERUN TO PANEL		
	CONDUIT STUBBED UP		
\longrightarrow	CONDUIT STUBBED DOWN		

IBOLS L	<u>EGEND</u>	LIGHTING SYMBOLS LEGEND	
LOOR DEVICES:		LIGHTING CONTR	OI S:
	FLUSH FLOOR POKE-THRU WITH DUPLEX POWER	DS DS	DAYLIGHT SENSOR
	BASIS OF DESIGN: LEGRAND 4AT SERIES POWER CONDUIT: (1) 3/4"		DAYLIGHT ZONE
	FLUSH FLOOR POKE-THRU WITH DUPLEX POWERPLUS COMMUNICATIONS BASIS OF DESIGN: LEGRAND 4AT SERIES POWER CONDUIT: (1) 3/4" DATA CONDUIT: (1)1-1/4"	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
₩ AV	FLUSH FLOOR POKE-THRU WITH DUPLEX POWER PLUS COMMUNICATIONS AND AV BASIS OF DESIGN: LEGRAND 6AT SERIES POWER CONDUIT: (1) 3/4" DATA & AV CONDUIT: (1) 1-1/4"		
	FLUSH FLOOR POKE-THRU WITH QUADRAPLEX POWER BASIS OF DESIGN: LEGRAND 4AT SERIES POWER CONDUIT: (1) 3/4"		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
	FLUSH FLOOR POKE-THRU WITH QUADRAPLEX POWER PLUS COMMUNICATIONS BASIS OF DESIGN: LEGRAND 6AT SERIES POWER CONDUIT: (1) 3/4" DATA CONDUIT: (1)1-1/4"		BE CAPABLE OF SWITCHING PROGRAMMING FROM OCCUPANCY TO VACANCY AND VICE VERSA WITHOUT ANY ADDED PARTS. CEILING MOUNTED VACANCY OR OCCUPANCY SENSORS ARE
₩ AV	FLUSH FLOOR POKE-THRU WITH QUADRAPLEX POWER PLUS COMMUNICATIONS AND AV BASIS OF DESIGN: LEGRAND 8AT SERIES POWER CONDUIT: (1) 3/4" DATA & AV CONDUIT: (1) 1-1/4"		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 TH 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.
	FLUSH FLOOR DUPLEX IN 'POURED IN PLACE' BOX. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS. BASIS OF DESIGN: POWER CONDUIT: (1)1" 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: (1)1-1/4"		
₩ AV	FLUSH FLOOR 'POURED IN PLACE' BOX WITH DUPLEX PLUS COMMUNICATION AND AV. BOX SHALL BE SUITABLE	\$	VACANCY OR OCCUPANCY SENSOR ZONE SINGLE POLE SWITCH
	FOR ON-GRADE APPLICATIONS. BASIS OF DESIGN: LEGRAND EFB45S-OG SERIES	\$ ^{LV}	LOW VOLTAGE SWITCH
	POWER CONDUIT: (1)1" DATA & AV CONDUIT: (1) 1-1/4"	\$ ^{VS} \$ ^{OS}	VACANCY OR OCCUPANCY SENSOR SWITCH. PROVIDE A
	FLUSH FLOOR 'POURED IN PLACE' BOX WITH QUADRAPLEX. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS. BASIS OF DESIGN:	* *	SENSOR CAPABLE OF SWITCHING PROGRAMMING FROM OCCUPANCY TO VACANCY AND VICE VERSA WITHOUT ANY ADDED PARTS.
	POWER CONDUIT: (1)1" FLUSH FLOOR 'POURED IN PLACE' BOX WITH QUADRAPLEX	Ф	DIMMING LINE VOLTAGE SWITCH
$\boxed{\hspace{0.1cm}} \boxed{\hspace{0.1cm}} \boxed{\hspace{0.1cm}} \boxed{\hspace{0.1cm}}$	PLUS COMMUNICATION. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS.	Φ ^{LV}	DIMMING LOW VOLTAGE SWITCH
₩ V	BASIS OF DESIGN: LEGRAND EFB45S-OG SERIES POWER CONDUIT: (1)1" DATA CONDUIT: (1)1-1/4" FLUSH FLOOR 'POURED IN PLACE' BOX WITH QUADRAPLEX	φ ^{vs} φ ^{os}	DIMMING VACANCY OR OCCUPANCY SENSOR SWITCH. PROVIDE A SENSOR CAPABLE OF SWITCHING PROGRAMMIN FROM OCCUPANCY TO VACANCY AND VICE VERSA WITHOUT ANY ADDED PARTS.
₩ W AV	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"	K	KEYPAD STATION (MULTIPLE BUTTONS OR TOUCH SCREEN). REFER TO LIGHTING CONTROLS PLANS AND NARRATIVE FOR MORE INFORMATION.
OWERED FURNI	TURE:	**	KEY ODERATED SWITCH
_	FURNITURE FEED FLUSH FLOOR POKE-THRU DEVICE WITH 8-WIRE POWER CONNECTION PLUS COMMUNICATIONS FEEDS TO		KEY OPERATED SWITCH
FF	SYSTEMS FURNITURE. • BASIS OF DESIGN: LEGRAND 4FFATC15 SERIES	\$ ⁴	FOUR WAY SWITCH
	 POWER CONDUIT: (1)3/4" DATA CONDUIT: (1)1-1/4" 	\$ ³	THREE WAY SWITCH
	FURNITURE FEED FLUSH FLOOR 'POURED IN PLACE' BOX DEVICE WITH 8-WIRE POWER CONNECTION PLUS	\$ ^{DR}	DOOR SWITCH
FF	COMMUNICATIONS FEEDS TO SYSTEMS FURNITURE. BOX SHALL BE SUITABLE FOR ON-GRADE APPLICATIONS.	\$ ^P	PILOT SWITCH
	BASIS OF DESIGN: LEGRAND RFB2E-OG SERIES BOX WITH 6CFFTC COVER	\$ ^T	TIMER SWITCH
	POWER CONDUIT: (1)1" DATA CONDUIT: (1)1-1/4"		
PD	WALL MOUNTED DEVICE WITH 8-WIRE POWER CONNECTION PLUS COMMUNICATIONS FEEDS TO SYSTEMS FURNITURE. • BASIS OF DESIGN: (2) J-BOXES WITH FACEPLATES • POWER CONDUIT: (1)3/4"	LIGHTING: • EM	INDICATES FIXTURE SHALL BE AN EMERGENCY
PP	DATA CONDUIT: (1)1-1/4" POWER POLE DEVICE WITH 8-WIRE POWER CONNECTION PLUS COMMUNICATIONS FEEDS TO SYSTEMS FURNITURE. BASIS OF DESIGN: LEGRAND SERIES	NL	INDICATES FIXTURE SHALL BE NIGHT LIGHT AND SHALL NOT BE SWITCHED
FOEND NOTES		1⊗ 1⊗	SINGLE FACE EXIT SIGNS - REFER TO PLAN FOR DIRECTIONAL ARROWS AND WALL OR CEILING MOUNTING
<u>LEGEND NOTES:</u> I. NOT ALL SYN	MBOLS MAY BE USED IN PLANS.	191 191	DOUBLE FACE EXIT SIGNS - REFER TO PLAN FOR DIRECTIONAL ARROWS AND WALL OR CEILING MOUNTING
ELECTRICAL B. IF ONLY THE THIS SHEET,	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	X,x HA-XX	CAPITAL LETTERS - LIGHT FIXTURE TYPE DESIGNATION LOWER CASE LETTERS - SWITCH DESIGNATION PANEL & CIRCUIT DESIGNATION
PROPER MOI SPECIFIC CE FOR ADDITIC 5. REFER TO AF 6. FLOOR DEVIC A. REFER TO REQUIRE B. A/V AND ACCESSI C. COORDIN TECHNOI D. FOR FUR	SYMBOLS. IR IS RESPONSIBLE FOR PROVIDING ALL ACCESSORIES FOR UNTING OF ALL LIGHT FIXTURES AND ELECTRICAL DEVICES IN ILLING OR WALL CONDITIONS. REFER TO ARCHITECTURAL PLANS DNAL INFORMATION. RCHITECTURAL PLANS FOR ALL FINISH COLORS. CE AND POWERED FURNITURE NOTES: O SYMBOLS ON THE FLOOR PLANS FOR ADDITIONAL EMENTS FOR DEVICES (IG, USB, ETC). DATA CONDUITS SHALL BE ROUTED TO ABOVE THE NEAREST BLE CEILING OR TO THE NEAREST IDF/ MDF/ IT ROOM. NATE ALL LOW VOLTAGE CONDUIT REQUIREMENTS WITH LOGY DRAWINGS AND TECHNOLOGY CONSULTANT. ENITURE FEEDS, COORDINATE WIRING CONFIGURATION WITH RE CONSULTANT (3+1 OR 2+2) PRIOR TO ORDER.	2. DIMENSIONS ELECTRICAL 3. IF ONLY THE THIS SHEET, ADDITIONAL 4. CONTRACTO PROPER MO	MBOLS 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

. CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER OF ALL

LIGHTING FIXTURES AND ELECTRICAL DEVICES (NEW OR SUBSTITUTES).





SCOTT BROWN, MITCHELL HENTON MITCHELL HENTON PROJECT MGR. IECHANICAL CHRIS WOODYARD JOHN KNOWLES HIS DRAWING SHALL NOT BE REPRODUCED FOR ANY PROJECT OTHER THAN THE PROJEC

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NO DESCRIPTION DATE

iE002

ELECTRICAL NOTES & SYMBOLS

TreanorHL NO. HE0569.2302.0



1 INDICATED LOCATION TO BE FOR HYDROPONICS DISPLAY. COORDINATE ANY ELECTRICAL REQUIREMENTS WITH ARHITECT PRIOR TO INSTALLATION. 2 GEF-1 TO BE ON TOWER ROOF, REFER TO MECHANICAL PLANS FOR EXACT LOCATION. REFER TO SHEET IE701 FOR ADDITIONAL INFORMATION REGARDING ELECTRICAL REQUIREMENTS.

3 REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION REGARDING WATER HEATER LOCATIONS AND POWER REQUIREMENTS.
INDICATED CIRCUIT SHALL BE USED FOR INTEGRALLY-LIT EXTERIOR SIGN, COORDINATE EXACT LOCATION AND POWER REQUIREMENTS \(\square\) WITH ARCHITECT PRIOR TO INSTALLATION.

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

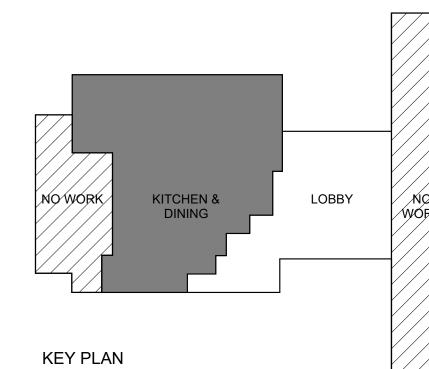
CRAWLSPACE SCOPE NOTE:
PROVIDE CRAWLSPACE GFCI/WP RECEPTACLES, CRAWLSPACE LIGHTING, CRAWLSPACE EXHAUST FANS, CRAWLSPACE SUMP PUMPS, AND CRAWLSPACE HEATERS. PROVIDE HEAT TRACE FOR ANY GREASE WASTE PIPE WITH RUN LENGTHS OVER 200FT.

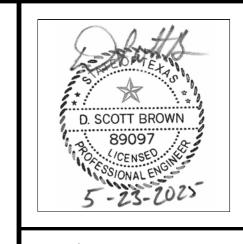
FIRE SMOKE DAMPERS: PROVIDE 120V POWER CIRCUITING FROM THE NEAREST 120V PANELBOARD FOR FIRE-SMOKE DAMPERS. SEE POWER GENERAL NOTE KK ON SHEET iE001 FOR ADDITIONAL INFORMATION. REFER TO THE HVAC PLANS FOR LOCATIONS AND QUANTITIES.

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

> REVISION SUMMARY: - ADDED JUNCTION BOX FOR INTEGRALLY-LIT EXTERIOR SIGN. - ADDED KEYED NOTE 4.





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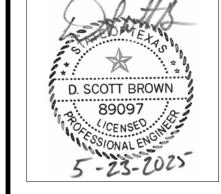
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DESCRIPTION DATE Addendum 2 05.23.25

iE201B

LEVEL 1 ELECTRICAL PLAN - DINING



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REFER TO ARCHITECTS DRAWINGS FOR LIGHT FIXTURE SELECTIONS AND LAYOUT.

DEMO ALL EXISTING TEMPORARY LIGHTING IN THE DINING SPACE AND REPLACE WITH THE NEW LIGHTING LAYOUT SHOWN ON THIS SHEET.

LIGHTING GENERAL NOTES:

GENERAL NOTES.

REQUEST.

PLUG LOAD CONTROLS, ETC.

INFORMATION ON CONTROLS INTENT.

A REFER TO THE ELECTRICAL FRONT SHEET FOR ADDITIONAL APPLICABLE

B REFER TO LIGHTING CONTROLS NARRATIVE ON THE ELECTRICAL FRONT SHEET

CONTROLS REQUIRED SEQUENCE OF OPERATIONS (SOO) FOR EACH SPACE,

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.

F ALL LIGHTING SHALL BE CONTROLLED BY SWITCHES, NOT TOUCHPADS, PER UNT

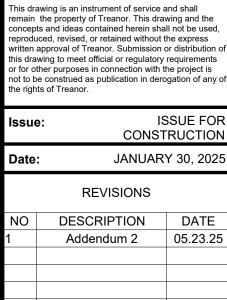
C PROVIDE EDGE LIT LED EXIT SIGNS WITHIN THE PATH OF EGRESS SUCH THAT

FOR ADDITIONAL REQUIREMENTS. INCLUDING BUT NOT LIMITED TO THE LIGHTING

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.

REVISION SUMMARY: - REVISED TYPE KE FIXTURES TO TYPE X. - ADDED DEMO SCOPE NOTE.



DESCRIPTION DATE Addendum 2 05.23.2 iE301B

LEVEL 1 LIGHTING PLAN - DINING

reanorHL NO. HE0569.2302.0

KEY PLAN

KITCHEN & DINING

NO WORK

LOBBY

/ NO/ /WORK/

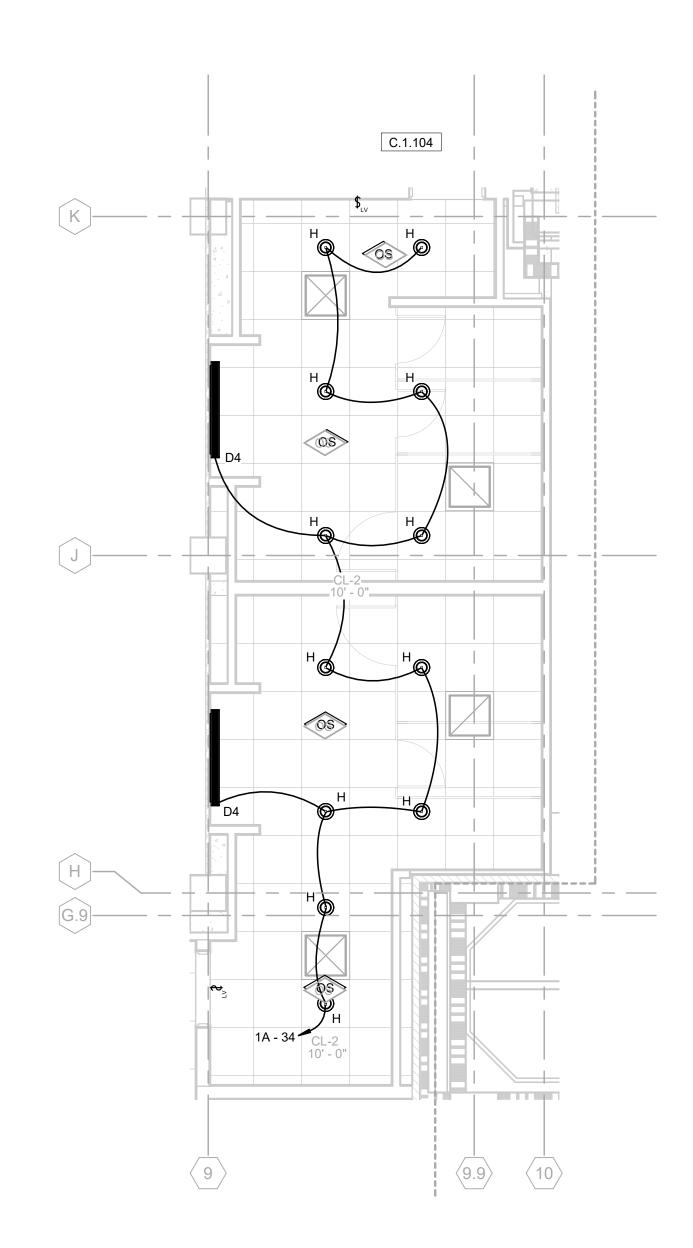
1) ENLARGED DINING - RESTROOM - ELECTRICAL PLAN 1/4" = 1'-0"

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

REFER TO ARCHITECTS DRAWINGS FOR LIGHT FIXTURE SELECTIONS AND LAYOUT.

REQUEST.



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

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REVISIONS NO DESCRIPTION DATE

iE402

ELECTRICAL ENLARGED PLAN - RESTROOMS (KITCHEN) TreanorHL NO. HE0569.2302.01



AND REPLACED WITH NEW FEEDERS.

- 1 INDICATED PANELBOARD SHALL BE A NEW 277/480V, 3PHASE, 225A PANELBOARD. REFER TO SHEETS iE501 AND iE803 FOR ADDITIONAL
- 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
- 3 ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL TWIST-LOCK RECEPTACLE AT INDICATED LOCATIONS. REFER TO FOOD SERVICE DRAWINGS AND SCHEDULES FOR ADDITIONAL INFORMATION.

EXISTING PANELBOARD SHALL BE REMOVED BACK TO THE SOURCE

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

<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.

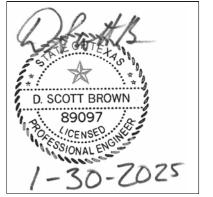
EXISTING CIRCUIT NOTE:
ALL EXISTING CIRCUITS WITHIN THE SCOPE OF WORK AREA THAT ARE
NOT REUSED FOR THIS REMODEL SHALL BE REMOVED BACK TO THE
PARES AND THE PLACARDS SHALL INDICATED THE BREAKERS AS

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.



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ELECTRICAL ENLARGED PLAN - KITCHEN

REFER TO GROUNDING RISER DIAGRAM DETAIL FOR MORE INFORMATION ON THE ROUTING OF THE GROUNDS WITHIN EACH FEEDER BELOW. NOTE BKR 3 PHASE, 4 WIRE 2254 225/3 4#4/0, 1#4G, 2-1/2"C

4004 400/3 2 SETS: 4#3/0, 1#3G, 2"C

EXISTING SWITCHBOARD 'MSB1' 3000A, 480/277V, 3-PHASE, 4-WIRE + G BUS 65,000 AIC, GFI PROTECTED, SERVICE ENTRANCE RATED √3000AT ⁾ 3000AF PROVIDE AND INSTALL NEW 225A CIRCUIT BREAKER IN NEXT AVAILABLE SPACE IN MSB1 AFTER DEMO OF EXISTING EQUIPMENT. 225A

EXISTING SWITCHBOARD 'MSBB' 1200A, 120/208V, 3-PHASE, 4-WIRE + G BUS 65,000 AIC, GFI PROTECTED, SERVICE ENTRANCE RATED ¹1200AF 400AF ∟໌ 100AF **100AF** √ 400AF 400AF 400AF 400AF 225AF 2254 4004 (4004) (4004 **EXISTING EXISTING EXISTING EXISTING** STEAM OVEN STEAM OVEN 2,3,4B 5,6,7B PANEL PANEL K - A/B K - A/B 400A 400A 400A 225A

ONE-LINE DIAGRAM NOT TO SCALE

GENERAL NOTES:

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

• 600A CIRCUIT BREAKER SERVING EXISTNG 'PANEL

(2) 225A CIRCUIT BREAKERS SERVING EXISTING 'KITCHEN PANELS' SHALL BE REMOVED.

RELOCATED TO NEW PANELBOARD K-A/B.

60A CIRCUIT BREAKER SERVING AHU-4 SHALL BE RELOCATED TO NEW PANELBOARD K-A/B. 40A CIRCUIT BREAKER SERVING AHU-3 SHALL BE

CIRCUIT BREAKERS TO BE INSTALLED:

K' SHALL BE REMOVED.

- 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
- 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 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 SPÉCIFICATIONS. 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

PMI JOB NO. PROJECT MGR. MECHANICAL PLUMBING ELECTRICAL

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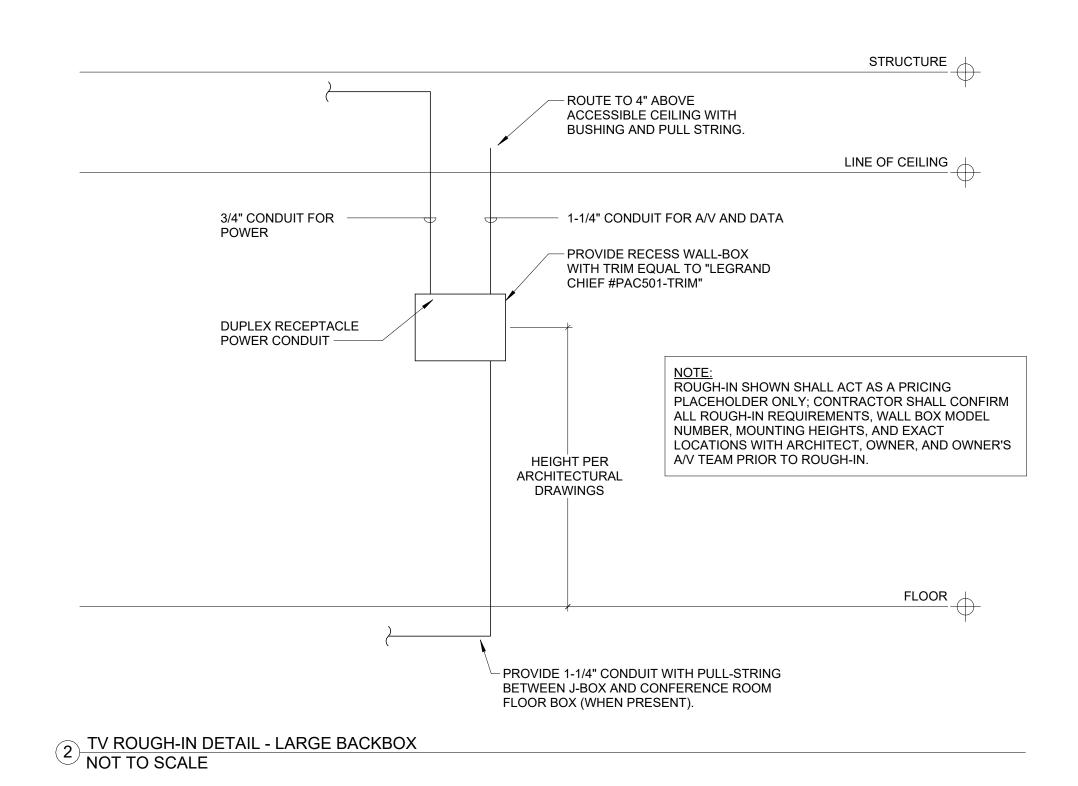
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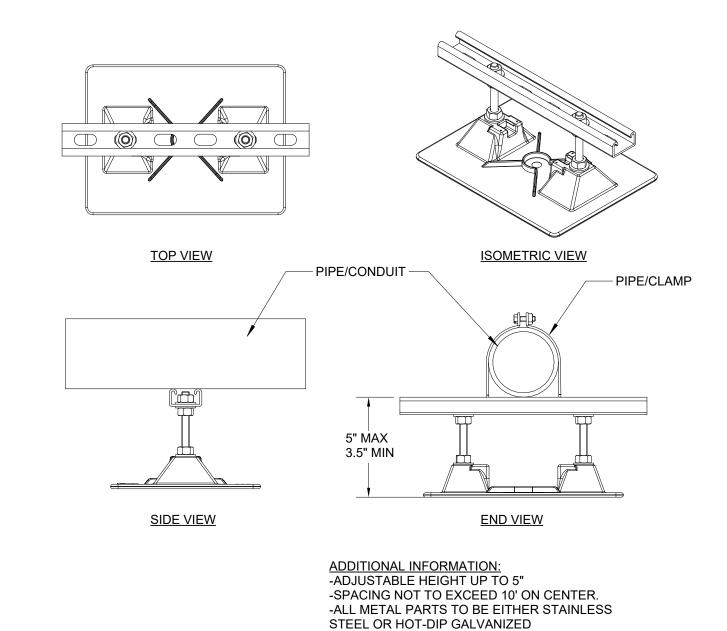
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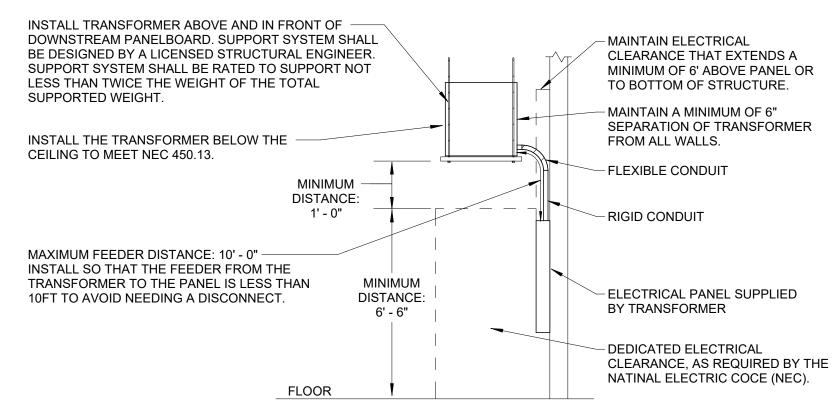
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ELECTRICAL ONE-LINE DIAGRAM

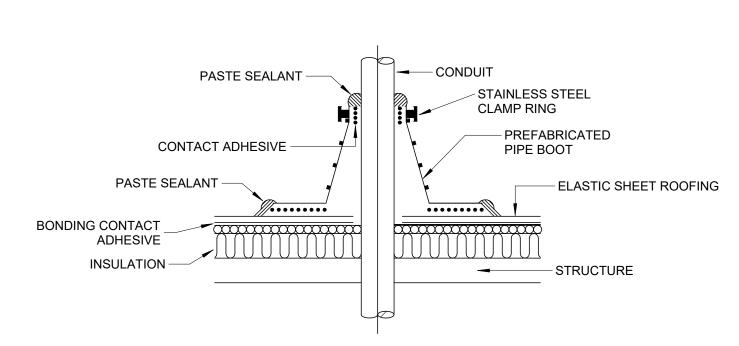




(3) CONDUIT SUPPORT ON ROOF NOT TO SCALE



4 SUSPENDED TRANSFORMER DETAIL NOT TO SCALE

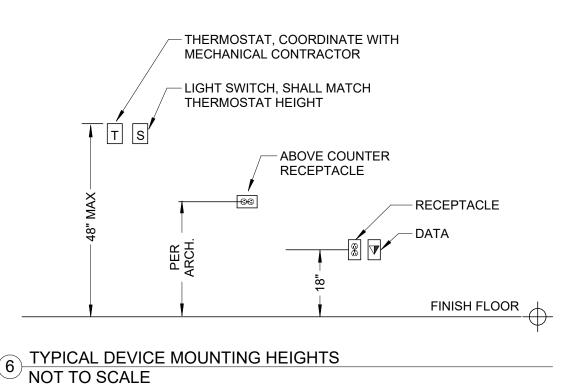


COORDINATE WITH ROOFING CONTRACTOR AND REQUIREMENTS OF ROOFING SPEC. FLASHING ON METAL ROOF BY ROOFING CONTRACTOR.

CONDUIT ROOF PENETRATION DETAIL NOT TO SCALE



LINE OF CEILING



FLOOR RECEPTACLE QUANTITY IN A MEETING ROOM

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*
	RE STILL ALLOWED, BUT THE NATIONAL OT REQUIRE A MINIMUM AMOUNT.

WALL RECEPTACLE **QUANTITY IN A MEETING ROOM**

ROOM PERIMETER (FT)	MINIMUM WALL RECEPTACLES REQUIRE
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 RECEPTACLES ARE STILL ALLOWED, BUT THE

NATIONAL ELECTRIC CODE DOES NOT REQUIRE A MINIMUM AMOUNT.

MEETING ROOM RECEPTACLES REQUIRED

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

(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

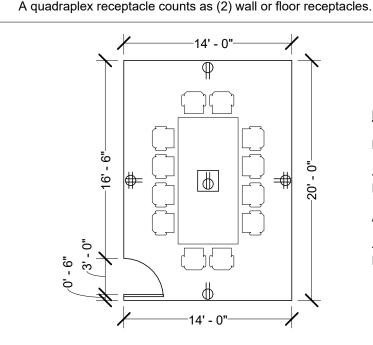
(2) The space occupied by fixed panels in walls, excluding sliding panels (3) The space afforded by fixed room dividers, such as freestanding bar-type counters or railings

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.

<u>Common Code Official Interpretations - Confirm with local Authority Having Jurisdiction (AHJ):</u> • 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.



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

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

D. SCOTT BROWN 89097

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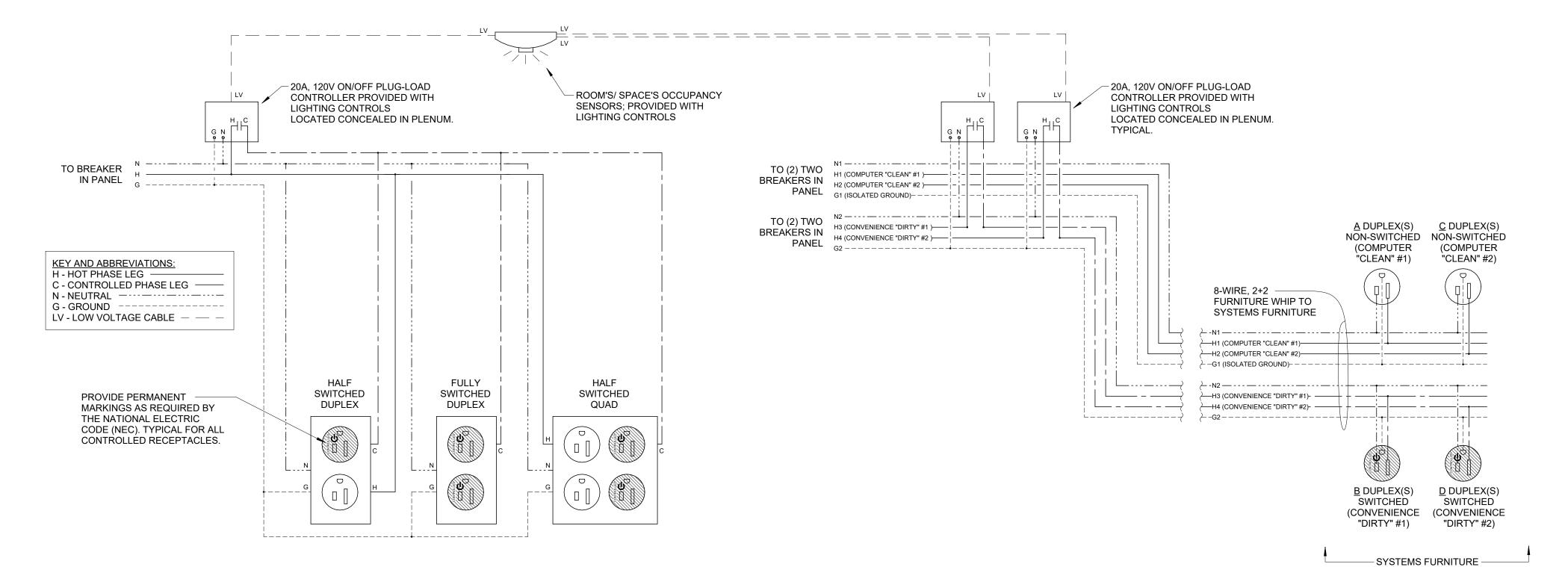
ELECTRICAL DETAILS GENERAL

2. REFERENCES:

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

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

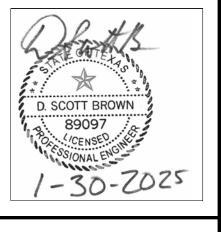
TELECTRICAL METERING NOT TO SCALE



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

SWITCHED RECEPTACLE WIRING DIAGRAM

NOT TO SCALE



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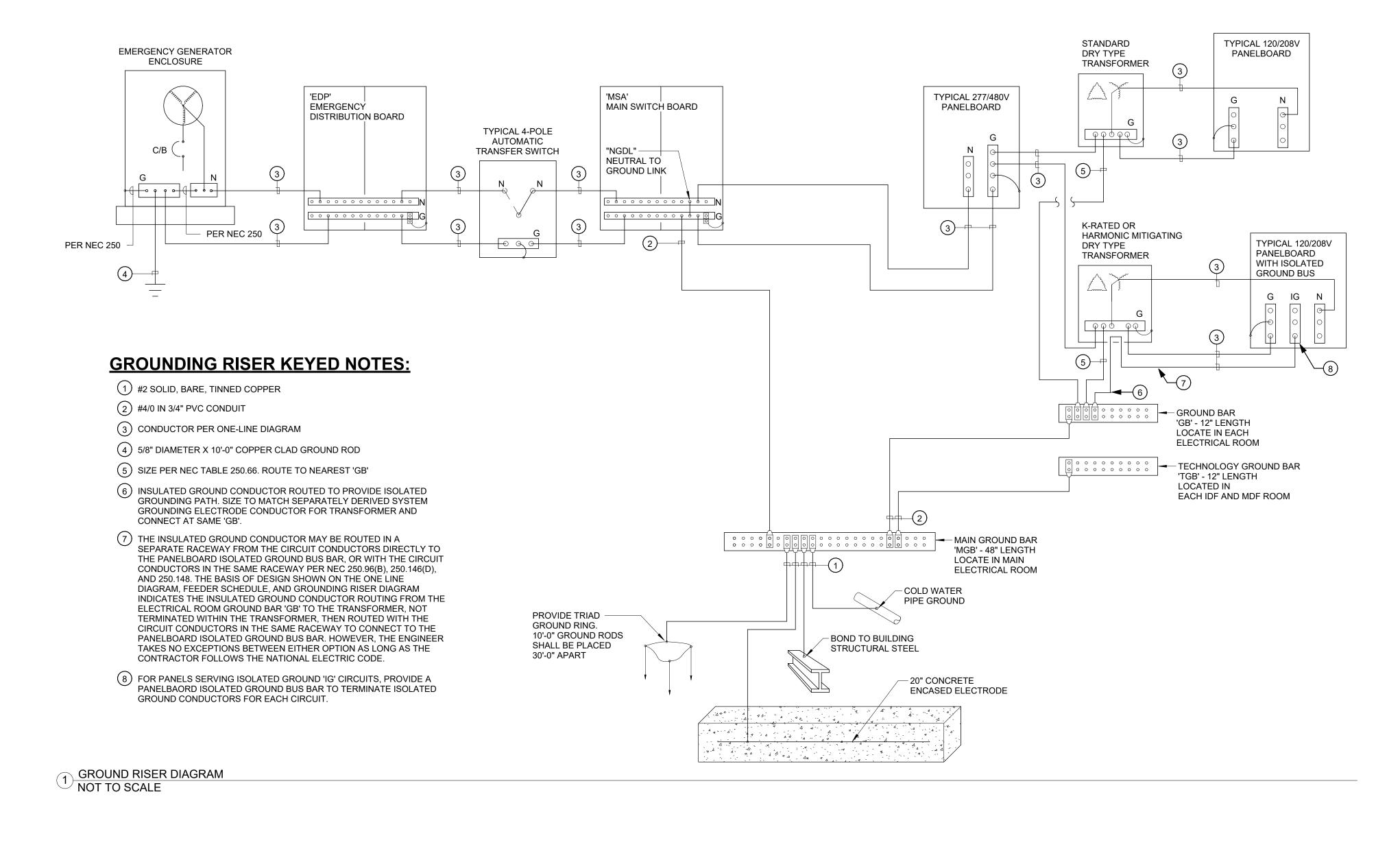
ELECTRICAL DETAILS GENERAL

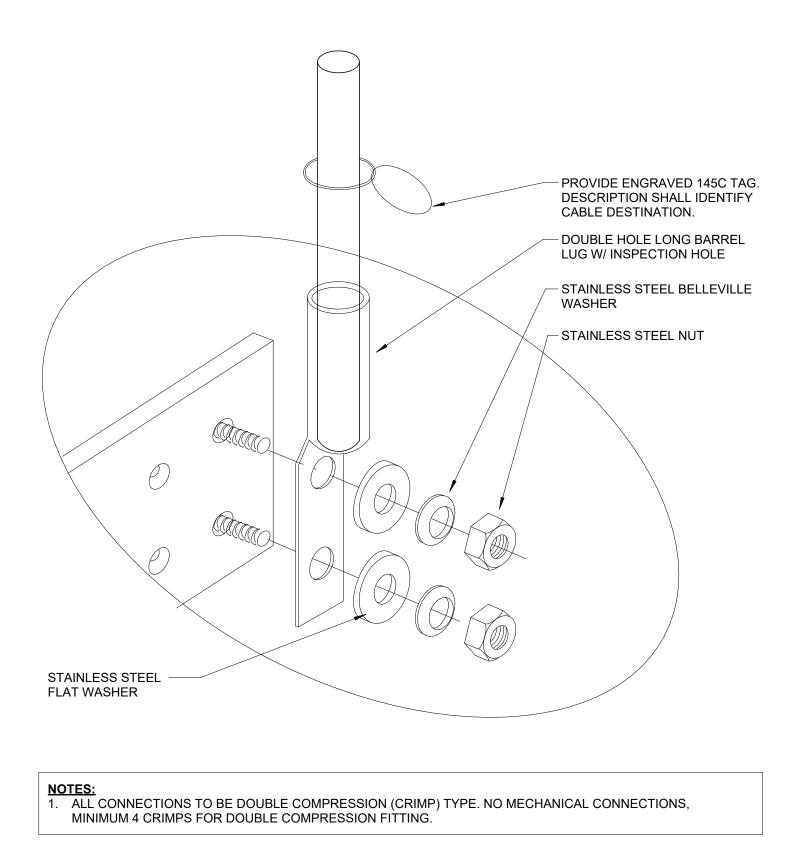
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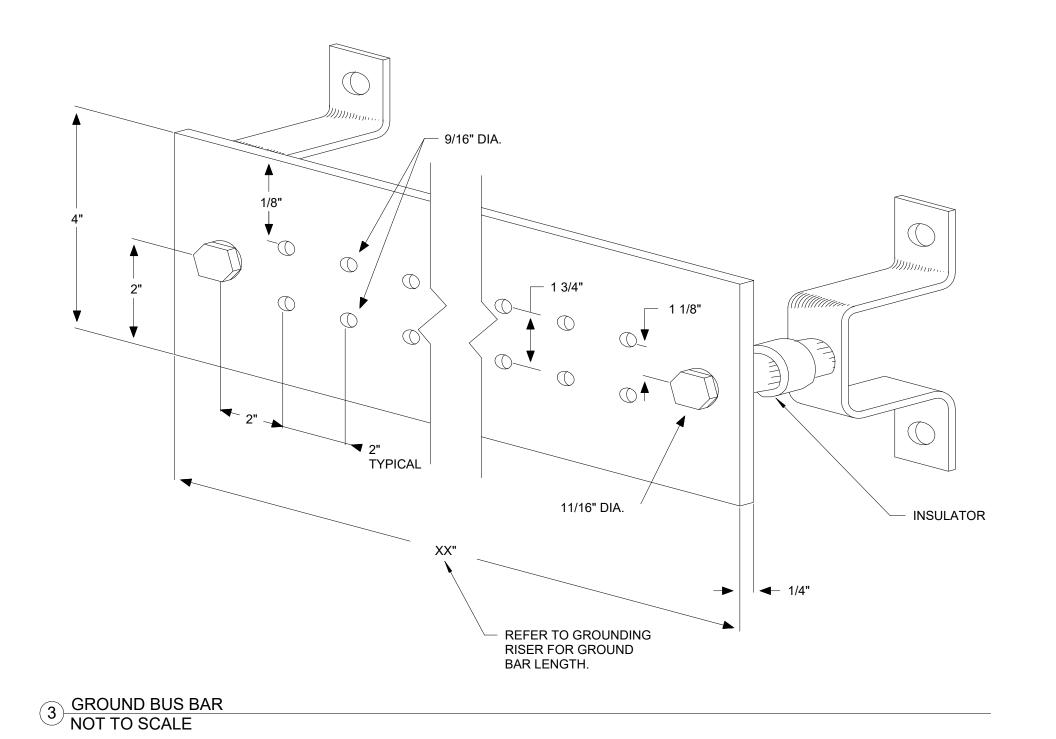
iE603 ELECTRICAL DETAILS -

GROUNDING TreanorHL NO. HE0569.2302.01





2 GROUND BUS BAR CONNECTION NOT TO SCALE



GENERAL NOTES (APPLIES TO ALL):

- A REFER TO HVAC AND PLUMBING PLANS FOR LOCATIONS OF EQUIPMENT. COORDINATE FINAL LOCATIONS IN FIELD.
- B DISCONNECT SWITCHES PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL MATCH THE AIC VALVE OF THE UPSTREAM ELECTRICAL PANEL
- C COORDINATE WITH MECHANICAL REGARDING RESPONSIBILITY OF MOTOR STARTERS, SO THAT DUPLICATE EQUIPMENT IS NOT PURCHASED.
- D WHERE VARIABLE FREQUENCY DRIVES (VFDS) AND SERVICE DISCONNECTS ARE SEPARATED, ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH WITH AUXILIARY CONTACTS FOR CONNECTION TO VFD SAFETY INTERLOCK. ELECTRICAL
- CONTRACTOR SHALL CONNECT DISCONNECT SWITCH AUXILIARY CONTACT TO THE ASSOCIATED VFD SAFETY INTERLOCK VIA 3/4 " CONDUIT WITH 2#12 AND #12G STRANDED 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

- 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.
- 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.
- 4 FURNISH AND CONNECT DUCT MOUNTED SMOKE DETECTOR (INSTALLED BY MECHANICAL) TO FIRE ALARM PANEL. 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.

				LIGHT FIXTURE SCHEDULE					
	TAG	DESCRIPTION	MANUFACTURER	MODEL NUMBER	LAMPS	VOLT	INPUT WATTS	DIMMING	REMARKS
	A4	4' LED DIRECT/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
	A8	8' LED DIRECT/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
	B6	6' LED RECESSED 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
	B6E	6' LED RECESSED 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
	C4	4' LED RECESSED LINEAR	T-3AR LED	TBSL-[TEMP]-[LENGTH]-[OPTIC]-[MOUNTING]	LED	120 V	32 W	0-10V	SEE NOTE 3
	C10	10' DECORATIVE SURFACE MOUNT LED LINEAR	PURE EDGE	CCDSM-5W-120-30K	LED	120 V	50 W	0-10V	SEE NOTE 3
	D4	4' WALL MOUNT ARCHITECTURAL LED	HE WILLIAMS	AX2WD-4-L33-S-UNV	LED	120 V	42 W	0-10V	SEE NOTES 3,4
	Ε	MULTI-CELL DOWNLIGHT	USAI	0413H1-35KH-35-BL-BL-NCVS-UNV-D6E-UB44-C44-UA2	LED	120 V	18 W	0-10V	
	F	HIGH CRI TAPE LIGHT (FOR SERVING COUNTER, 2.8 W/FT)	VLT	EFLEXW-2320-35-NL-WE1-[LENGTH AS REQUIRED]-UL	LED	120 V	3 W	NO	SEE NOTES 1,3
	G	DECORATIVE PENDANT	PURE EDGE	PX3P-T1-7W-48-30K-BB	LED	120 V	15 W	0-10V	SEE NOTES 1,3,4
	Н	6" LED ROUND DOWNLIGHT	HE WILLIAMS	6DR-TL-30K-DIM-UNV	LED	120 V	20 W	0-10V	
	HE	6" LED ROUND DOWNLIGHT	HE WILLIAMS	6DR-TL-30K-EM-DIM-UNV	LED	120 V	20 W	0-10V	
	K	LED NARROW STRIP	HE WILLIAMS	75R/S-4'-[LUMES]-[TEMP]-DIM-UNV	LED	120 V	40 W	0-10V	SEE NOTE 1
	P1	MARATHON WOODED TOP PENDANT	BARNLIGHT	BLE-C-WYDM16-600-ASH-SBK-NA-LED11-3000K-FL	LED	120 V	27 W	0-10V	SEE NOTE 3
	P2	MINIMALIST CORDED 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
	V	2x2 LED TROFFER	HE WILLIAMS	PT-22-L26/830-RA-DIM-UNV	LED	120 V	22 W	0-10V	
$\Delta \mathbf{L}$	₩ Ę ~	2x2-LED-TRQEFEB		RI-22-L26/83D-RA-EM-DIM-UNY	~~LED~~	1204	~~22W~~	√0 ₇ 10√~	~~~~~
	Х	EDGE LIT EXIT SIGN, WITH EMERGENCY BATTERY BACKUP.	LITHONIA	WHEN LOCATED IN AN OPEN EXPOSED CEILING: EDG-[FACE]-RMR-EL-SD-ELAUS12 WHEN LOCATED IN AN GYPSUM OR TILE CEILING: EDGR-[FACE]-RMR-EL-SD	LED	120 V	5 W	NO	SEE NOTE 2

- GENERAL NOTES: The second seco A CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL ACCESSORIES FOR PROPER MOUNTING OF FIXTURES IN SPECIFIC CEILING PER LOCATION OF FIXTURES.
- B CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER OF ALL LIGHTING FIXTURES (NEW OR SUBSTITUTES).
- CONTRACTOR SHALL COORDINATE FINISH, MOUNTING HEIGHTS (IF SUSPENDED), LENSING, AND OTHER AESTHETIC FEATURES OF ALL FIXTURES WITH ARCHITECT. CONTRACTOR SHALL PROVIDE INSTALLATION AND MATERIALS FOR AN ADDITIONAL 5 EXIT SIGNS OR 10%, WHICHEVER IS GREATER, AS ATTIC STOCK FOR FUTURE USE. ATTIC STOCK EXIT SIGN SPECIFICATION SHALL MATCH ALL THE OTHER EXIT SIGNS ON THIS PROJECT, AS SPECIFIED IN THE LIGHT FIXTURE SCHEDULE.
- PROVIDE CONTINUOUS LENGTH AS SHOWN ON PLANS. CONFIRM EXACT LENGTH WITH ARCHITECTURAL DETAILS AND ARCHITECT. PROVIDE ALL ACCESSORIES FOR A FULLY FUNCTIONING SYSTEM.
- COORDINATE MOUNTING, LENGTH, AND OTHER DETAILS WITH ARCHITECT AS FIXTURE IS INCORPORATED INTO ARCHITECTURAL FEATURE. 4 FIXTURE REQUIRES REMOTE TRANSFORMER/ DRIVER. CONTRACTOR SHALL SIZE AND SPACE REMOTE TRANSFORMERS/ DRIVERS TO ELIMINATE VOLTAGE DROP. TRANSFORMERS/ DRIVERS SHALL BE

PROVIDE NUMBER OF FACES AND CHEVRONS FOR EACH EXIT SIGN PER ELECTRICAL LIGHTING PLANS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS (RCP) FOR CEILING TYPES AT EACH EXIT

VISUALLY AND ACOUSTICALLY CONCEALED. PROVIDE LIGHT POLE WITH VIBRATION ISOLATION AS RECOMMENDED BY THE MANUFACTUER.

SIGN LOCATION.

					GHTING CONTROL	· / · · · · · · · · · · · · · · · · · ·	
CONTACT	VOLT	PHASE	GENERAL LOCATION	CIRCUIT	DESCRIPTION	CONTROL	REMARKS
1	120/277	1	ZONE		SPARE		
2	120/277	1	ah.	1A-13	NW DINING P1 FIXTURES	TIMECLOCK, PHOTOCELL, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
3	120	1	ab	1A-13	N VESTIBULE H FIXTURES	TIMECLOCK, PHOTOCELL, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
4	120	1	ac	1A-13	N DINING H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
4	120	1	ad	1A-13	NE DINING P1 FIXTURES	TIMECLOCK, PHOTOCELL, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
	120	1	ae			·	
6 7	120	1	af	1A-13 1A-30	N DINING C FIXTURES NE DINING P2 FIXTURES	TIMECLOCK, PHOTOCELL, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR TIMECLOCK, PHOTOCELL, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
		1	ag				
8	120 120	1	ah	1A-27	W DINING A4 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
9		1	ai	1A-27	W DINING A4 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
10	120	1	aj	1A-27	W DINING P2 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
11	120	1	ak	1A-27	W DINING H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
12	120	1	al	1A-27	W DINING H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
13	120	1	am	1A-29	W DINING A8 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
14	120	1	an	1A-29	W DINING A8 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
15	120	1	ao	1A-29	W DINING P2 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
16	120	1	ар	1A-29	DINING H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
17	120	1	aq	1A-52	N DINING C FIXTURES	TIMECLOCK, PHOTOCELL, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
18	120	1	ar	1A-29	DINING ENTRY H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
19	120	1	as	1A-30	E DINING C10 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
20	120	1	at	1A-30	S DINING P1 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
21	120	1	au	1A-30	E DINING H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
22	120	1	av	1A-30	E DINING P2 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
23	120	1	aw	1A-31	E DINING P2 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
24	120	1	ax	1A-31	E DINING H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
25	120	1	ay	1A-31	E DINING H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
26	120	1	az	1A-31	E VESTIBULE H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
27	120	1	ba	1A-13	E DINING A4 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
28	120	1	bb	1A-13	E DINING P2 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
29	120	1	bc	1A-30	SE DINING A8 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
30	120	1	bd	1A-30	SE DINING P2 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
31	120	1	be	1A-31	SERVING LINE B6 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
32	120	1	bf	1A-32	SERVING LINE B6 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
33	120	1	bg	1A-32	SERVING LINE B6 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
34	120	1	bh	1A-32	SERVING LINE B6 FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
35	120	1	bi	1A-32	SERVERY E FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
36	120	1	bj	1A-32	SERVERY H FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
37	120	1	bk	1A-33	KITCHEN NW V FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
38	120	1	bl	1A-33	KITCHEN SW V FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
39	120	1	bm	1A-31	WAREWASH V FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
40	120	1	bn	1A-31	KITCHEN V FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
41	120	1	bo	1A-33	KITCHEN V FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
42	120	1	bp	1A-33	RECEIVING V FIXTURES	TIMECLOCK, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
43	120	1	bq	1A-13	DINING H FIXTURES	TIMECLOCK, PHOTOCELL, LOCAL ON/OFF, OCCUPANCY/VACANCY SENSOR	
44	120/277	1	υq	1,7,10	SPARE	I202001, I TIOTOGELE, EGONE ON/OTT, OGGOT ANOT/VAGANOT GENGON	
45	120/277	1			SPARE		
45 46	120/277	1			SPARE		
47	120/277	1			SPARE		
41	120/2//	I		1	SFARE		

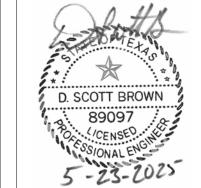
GENERAL NOTES (APPLIES TO ALL): A REFER TO THE LIGHTING CONTROLS NARRATIVE ON THE ELECTRICAL FRONT SHEET FOR FURTHER CONTROLS INFORMATION.

B REFERENCE LIGHTING PLANS FOR LOCATION OF CONTROL ZONES.

- C LIGHTING CONTROL PANELS SHOWN ARE TO DEMONSTRATE DESIGN INTENT ONLY AND DOES NOT DEMONSTRATE THE EXACT AMOUNT OF CONTROL RELAYS REQUIRED.
- D CIRCUIT NUMBERS INDICATED ARE THE NORMAL CIRCUIT NUMBER ONLY. NOTE THAT ANY EMERGENCY LIGHTING THAT ARE NOTED TO BE CONTROLLED WITH THE NORMAL LIGHTING VIA A UL924 DEVICE WILL HAVE A DIFFERENT CIRCUIT NUMBER.
- CONTRACTOR SHALL PROVIDE INSTALLATION AND MATERIALS FOR 20% ADDITIONAL CONTROL RELAYS FOR FUTURE USE. LIGHTING CONTROL ZONE SCHEDULES AND LIGHTING CONTROLS NARRATIVE ON THE ELECTRICAL FRONT SHEET REPRESENT THE INTENT FOR CONTROL ZONES THROUGHOUT THE SCOPE OF
- WORK. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL DEVICES AND COMPONENTS TO CREATE A COMPLETE SYSTEM AND TO ACHIEVE THE CODE REQUIREMENTS. PROVIDE ALL RELAYS AS DIMMING TYPE DESPITE DIMMING OR NON-DIMMING FUNCTION OF CONTROL ZONE.
- PROVIDE 0-10V WIRING TO ALL FIXTURES AND ZONES.
- PROVIDE PHYSICAL BARRIERS TO SEPERATE 120V VS 277V RELAYS, AS WELL AS NORMAL POWER CIRCUITS VS. EMERGENCY EGRESS LIGHTING CIRCUITS.
- CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS REGARDING LIGHTING CONTROL PANELS. IF LIGHTING CONTROL PANELS ARE NOT PRESENT ON THE PROJECT OR IF THE QUANTITY OF AVAILABLE RELAYS IS INADEQUATE, THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW LIGHTING CONTROL PANELS MATCHING THE BUILDING 'S EXISTING LIGHTING
- PROVIDE AN EXTERIOR PHOTOCELL AND CONNECT TO LIGHTING CONTROL SYSTEM FOR PROGRAMMING. LOCATE PER MANUFACTURER RECOMMENDATIONS. PROVIDE INTERCONNECTION BETWEEN ALL LIGHTING CONTROL PANELS (IF THERE ARE MULTIPLE LIGHTING CONTROL PANELS ON THE PROJECT).

NOT USED.

- REVISED LIGHTING TYPE KE TO X IN LIGHTING SCHEDULE FOR EDGE LIT EXIT SIGN.



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17300 North Dallas Parkv www.purdy-mcguire.co SCOTT BROWN, MITCHELL HENTON MITCHELL HENTON

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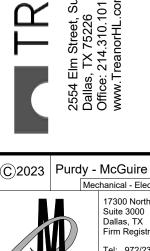
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iE701

ELECTRICAL SCHEDULES

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Mechanical - Electrical Engineers

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ELECTRICAL SCHEDULES - KITCHEN

TreanorHL NO. HE0569.2302.01

UIPMENT DESIGNATION	LLLOTTRION	L LOAD	VOLT	PHASE	OCPD RATING	PANEL	CIRCUIT NO	. FEEDER	CONNECTION TYPE	GFCI PROTECTION	DISCON	NECT			REMARKS
M AID OCCUPANT	,	LOAD (WATTS)		i IIASE			JINOUII NU				TYPE		POLES	FUSE	CANAINIA
1 AIR SCREEN 2A DOOR HEATER/LIGHTS	5 A 16 A	610 VA 1920 VA	120 V 120 V	1	20 A 20 A	K-A/B K-A/B	0	2#12, #12G, 3/4"C 2#12, #12G, 3/4"C	JUNCTION BOX JUNCTION BOX	GFCI BREAKER GFCI BREAKER	-	-	-	-	
2A DOOR HEATER/LIGHTS 2A DOOR HEATER/LIGHTS	15 A	1820 VA	120 V	1	20 A	K-A/B	15	2#12, #12G, 3/4°C	JUNCTION BOX	GFCI BREAKER		-	-	-	
2B TEMP. ALARM	5 A	600 VA	120 V	1	20 A	K-A/B	10	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	- -	-	-	-	
2B TEMP. ALARM	5 A	600 VA	120 V	1	20 A	K-A/B	13	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
C 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	-	-	-	-	
3.1 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	
03.1 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	
03C FREEZER COIL 03C FREEZER COIL	15 A 15 A	3162 VA 3162 VA	208 V	1	20 A 20 A	K-A/B	56,58	2#12, #12G, 3/4"C	JUNCTION BOX JUNCTION BOX	GFCI BREAKER GFCI BREAKER	-	-	-	-	
3D COOLER COIL	2 A	240 VA	208 V 120 V	1	20 A 20 A	K-A/B K-A/B	66,68 16	2#12, #12G, 3/4"C 2#12, #12G, 3/4"C	JUNCTION BOX JUNCTION BOX	GFCI BREAKER GFCI BREAKER	-	-	-	-	
3D COOLER COIL 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	-	_	_	_	-
OSF 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	-	-	-	-	
34 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	-	-	-	-	
34 40QT MIXER	6 A	2016 VA	208 V	3	20 A	K-C/D	22,24,26	4#12, #12G, 3/4"C	RECEPTACLE	GFCI BREAKER	-	-	-	-	
9 INSUL. MOBILE PROOFER	15 A	1800 VA	120 V	1	20 A	K-C/D	19	2#12, #12G, 3/4"C	RECEPTACLE	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	-	-	-	-	
51 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 VA	120 V	1	20 A 20 A	K-A/B	26	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
51 FIRE PROT. SYSTEM 51 FIRE PROT. SYSTEM	1 A 1 A	120 VA 120 VA	120 V 120 V	1	20 A 20 A	K-A/B K-A/B	53 54	2#12, #12G, 3/4"C 2#12, #12G, 3/4"C	JUNCTION BOX JUNCTION BOX	GFCI BREAKER GFCI BREAKER		-	-	-	
3 HOOD LIGHTS	10 A	120 VA 1200 VA	120 V	1	20 A 20 A	K-A/B K-A/B	27	2#12, #12G, 3/4°C	JUNCTION BOX JUNCTION BOX	GFCI BREAKER GFCI BREAKER	-	-	-	-	
3 HOOD LIGHTS 3 HOOD LIGHTS	10 A	1200 VA	120 V	1	20 A	K-A/B	29	2#12, #12G, 3/4°C	JUNCTION BOX	GFCI BREAKER	<u> </u>	-	-	-	
33 HOOD LIGHTS	10 A	1200 VA	120 V	1	20 A	1A	15	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER		-	-	-	
53 HOOD LIGHTS	10 A	1200 VA	120 V	1	20 A	1A	17	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
53M 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		-		-	
53M 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	-	-	-	-	
53M HEAT SENSOR	10 A	1200 VA	120 V	1	20 A	1A	16	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
53M HEAT SENSOR	10 A	1200 VA	120 V	1	20 A	1A	18	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
31 CONVECTION OVEN	6 A	720 VA	120 V	1	20 A	K-A/B	36	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	-	-	-	SEE NOTE 4
61 CONVECTION OVEN	6 A	720 VA	120 V	1	20 A	K-A/B	37	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	38	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	<u>-</u>	-	-	-	SEE NOTE 4
1 CONVECTION OVEN 2 CONVECTION STEAMER	6 A 2 A	720 VA 200 VA	120 V 120 V	1	20 A 20 A	K-A/B K-A/B	39 40	2#12, #12G, 3/4"C 2#12, #12G, 3/4"C	RECEPTACLE JUNCTION BOX	GFCI RECEPTACLE GFCI BREAKER	<u>-</u>	-	-	-	SEE NOTE 4 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	<u> </u>	-			SEE NOTE 4
64 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
71 COMBI OVEN	18 A	2200 VA	120 V	1	25 A	K-A/B	49	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	_	_	_	
1 COMBI OVEN	18 A	2200 VA	120 V	1	25 A	K-A/B	50	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	-	_	-	
2 COMBI OVEN	12 A	1440 VA	120 V	1	20 A	K-A/B	51	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	-	-	-	SEE NOTE 4
72 COMBI OVEN	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
37 HEATED CABINET	16 A	3224 VA	208 V	1	20 A	1A	22,24	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
37 HEATED CABINET	16 A	3224 VA	208 V	1	20 A	1A	23,25	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
37 HEATED CABINET	16 A	3224 VA	208 V	1	20 A	1A	26,28	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
89 REFRIGERATOR	9 A	1032 VA	120 V	1	20 A	1A	11	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
39 REFRIGERATOR 33 REFRIGERATOR	9 A	1032 VA 1000 VA	120 V	1	20 A 20 A	1A	12	2#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER GFCI BREAKER		-	-	-	
95 FREEZER	8 A 15 A	1800 VA	120 V 120 V	1	20 A 20 A	1A 1A	10	2#12, #12G, 3/4"C 2#12, #12G, 3/4"C	JUNCTION BOX JUNCTION BOX	GFCI BREAKER GFCI BREAKER	-	-	-	-	
O1A 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	-	-		-	
DIA 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					
01A 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	_	_	_	_	
50 DISHMACHINE	28 A	23185 VA	480 V	3	35 A	HK	1,3,5	4#8, #10G, 1"C	JUNCTION BOX	GFCI BREAKER	NEMA HEAVY DUTY	60	3	NF	
2 BOOSTER HEATER	29 A	24016 VA	480 V	3	40 A	HK	2,4,6	4#8, #10G, 1"C	JUNCTION BOX	GFCI BREAKER	NEMA HEAVY DUTY	60	3	NF	
56 POWERWASH SINK	13 A	10803 VA	480 V	3	20 A	HK	20,22,24	4#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-			
6 POWERWASH SINK	13 A	10803 VA	480 V	3	20 A	HK	25,27,29	4#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	-	-	-	-	
34 OSMOSIS SYSTEM	15 A	1800 VA	120 V	1	20 A	K-A/B	8	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	-	-	-	
S5 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
33 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
04 FRYER 04 FRYER	16 A 16 A	1920 VA 1920 VA	120 V 120 V	1	20 A 20 A	K-A/B K-A/B	63 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
04 FRYER 04 FRYER	16 A	1920 VA 1920 VA	120 V	1	20 A 20 A	K-A/B K-A/B	65	2#12, #12G, 3/4°C	RECEPTACLE	GFCI RECEPTACLE GFCI RECEPTACLE	<u> </u>	-	_	-	SEE NOTE 4
08 SCRAP COLLECTOR	3 A	1920 VA 1152 VA	208 V	3	20 A	K-A/B K-C/D	28,30,32	4#12, #12G, 3/4"C	JUNCTION BOX	GFCI RECEPTACLE GFCI BREAKER	<u> </u>	-		-	SLE INUTE 4
8 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	-	-	_	_	
03 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
04 PIZZA PREP TABLE	8 A	900 VA	120 V	1	20 A	1A	14	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE		-			
5 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	
5A POWER RINSE HEATER	39 A	32326 VA	480 V	3	50 A	HK	8,10,12	4#6, #10G, 1"C	JUNCTION BOX	GFCI BREAKER	NEMA HEAVY DUTY	60	3	NF	
5B MOTORS/CONTROLS	6 A	5235 VA	480 V	3	20 A	HK	13,15,17	4#12, #12G, 3/4"C	JUNCTION BOX	GFCI BREAKER	NEMA HEAVY DUTY	60	3	NF	
5C BOOSTER OPTION	32 A	27008 VA	480 V	3	45 A	HK	14,16,18	4#6, #10G, 1"C	JUNCTION BOX	GFCI BREAKER	NEMA HEAVY DUTY	60	3	NF	
1 SODA DISPENSER	12 A	1440 VA	120 V	1	20 A	1A	1 -	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	<u>-</u>	-	-	-	
1 SODA DISPENSER	12 A	1440 VA	120 V	1	20 A	1A	5	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	-	-	-	
2 TEA/COFFEE BREWER	14 A	1680 VA	120 V	1	20 A 20 A	1A	9	2#12, #12G, 3/4"C	RECEPTACLE RECEPTACLE	GFCI RECEPTACLE	<u> </u>	-	-	-	
2 TEA/COFFEE BREWER 3 JUICE DISPENSER	14 A 3 A	1680 VA 360 VA	120 V 120 V	1	20 A 20 A	1A 1A	7	2#12, #12G, 3/4"C 2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE GFCI RECEPTACLE	<u> </u>	-	-	-	
13 JUICE DISPENSER	3 A	360 VA 360 VA	120 V	1	20 A 20 A	1A 1A	2	2#12, #12G, 3/4°C	RECEPTACLE	GFCI RECEPTACLE GFCI RECEPTACLE	-	_	-	+ -	
4 ICE MACHINE	12 A	1440 VA	120 V	1	20 A	1A 1A	4	2#12, #12G, 3/4°C	RECEPTACLE	GFCI RECEPTACLE GFCI RECEPTACLE	<u> </u>	-	_	_	
9 GAS GRIDDLE	6 A	720 VA	120 V	1	20 A	1A	21	2#12, #12G, 3/4"C	RECEPTACLE	GFCI RECEPTACLE	-	-	_	_	SEE NOTE 4
9 GAS GINDDLL	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	30	3	NF	
1 BLAST CHILLER	IUA					*	,	, ,			=			. 1	

ENDIANS CREEKEN 20 1 2 2112, 19126, SAPC 10 0 720 720		Enclosu A.I.C. Rati	ıre: NE	MA 4	SED X			Phases: Wires:		vvye	Mains Type: MCB Frame Rating: 400 A MCB Rating: 400 A Supply From: MSBB							
1		Circuit Description	(amp		Wire Size	Δ	·	E	3	(:	Wire Size	1	(amp	Circuit Description	T		
Section Comparison Section S	1	E101 AIR SCREEN	1	1	2#12, #12G, 3/4"C	610	720					2#12, #12G, 3/4"C	1		E10 CONV. RECEPT	\pm		
FOR COMMANDER 20 1 2971, 9163, 9470 1000 1000 1000 2971, 9163, 9470 1 20 1200 1200 1 2971, 9163, 9470 1 20 1200 1200 1 2971, 9163, 9470 1 20 1200 1200 1 2971, 9163, 9470 1 20 1200 1200 1 2971, 9163, 9470 1 20 1200 1200 1 2971, 9163, 9470 1 20 1200 1200 1 2971, 9163, 9470 1 20 1200 1200 1 2971, 9163, 9470 1 20 1200 1200 1 2971, 9163, 9470 1 20 1200 1 200 1 2971, 9163, 9470 1 20 1200 1 200 1				1				720	720	700	700		-					
FIRST ADDORS				1		720	1800			720	720		-	_		+		
11 FILOPOPERSSURE RELIEF 20 1 2912 2193 344°C 500 500 500 5212 2193 344°C 1 20 5102 5103 510				1		720	1000	1920	600							+		
15 ENDA DOOR. 20 1 212,4192,34°C 10 1800 240 240 2412,8193,47°C 1 20 1030 COOLER COLLE FOOLER FOLLY FOR MINISTER FEREERY 20 1 2412,4192,34°C 1800 18				1						600	600	<u> </u>	-		E102C PRESSURE RELIEF	_		
77 MICHAEL RECEPT 20 1 2412, #126, 3410 100 100 100 100 2412, #126, 3410 100 100 100 2412, #126, 3410 100 100 2412, #126, 3410 100 100 2412, #126, 3410 100 100 2412, #126, 3410 100 100 2412, #126, 3410 100 100 2412, #126, 3410 100 100 2412, #126, 3410 100 100 2412, #126, 3410 100 100 2412, #126, 3410 100 100 2412, #126, 3410 100 100 2412, #126, 3410 100 100 2412, #126, 3410 100 100 2412, #126, 3410 100 100 2412, #126, 3410 100 100 2412, #126, 3410 100 100 100 2412, #126, 3410 100 100 2412, #126, 3410 100 100 100 2412, #126, 3410 100 100 2412, #126, 3410 100 100 100 2412, #126, 3410 100 100 100 2412, #126, 3410 100			20	1	2#12, #12G, 3/4"C	600	1200					2#12, #12G, 3/4"C	1	20	E102E PANIC ALARM			
19								1820	240		1000					1		
21				1		190	100			720	1920					+		
28				1		180	180	180	180				-					
28 E151 FIRE PROT. SYSTEM 20 1 2812, PISC, 34°C 27 2153 HOOD LIGHTS 20 1 2812, PISC, 34°C 28 153 HOOD LIGHTS 20 1 2812, PISC, 34°C 380 1800 1800 1800 1800 1800 1800 1800				1				100	100	180	180		-					
28 E153 HOOD LIGHTS				1		120	120						-	20	E151 FIRE PROT. SYSTEM			
31			20	1	2#12, #12G, 3/4"C			1200	1200			2#12, #12G, 3/4"C	1	20	E153M HEAT SENSOR			
38 E441 ABBLE RECEPT				1						1200	1200		-	_				
35 E145 TABLE RECEPT				1		180	180	100	400				-					
27				1				180	180	180	720							
18				1		720	720			100	720	· · · · ·			E161 CONVECTION OVEN			
14 E182 CONVECTION				1		0		720	200					_		+		
45				1						200	3833				E164 TILT BRAISING PAN	\dagger		
17	43	E145 TABLE RECEPT	20	1		180	3833									T		
19 E171 COMBI OVEN 25 1 2812, #123, 344°C 200 2000 2000 2812, #123, 344°C 1 20 E171 COMBI OVEN 25 E171 COMBI OVEN 27 27 27 27 27 27 27 2	15	E10 CONV. RECEPT	_	1				720	3833							1		
1	_			1	, ,					720	240					\downarrow		
38 SIT FIRE PROT. SYSTEM 20 1 2#12, #12G, 34°C				1	, ,	2200	2200	1440	1440					_				
55 103.1 REFR. SYSTEM 35 2 2#8, #10G, 1°C 2652 1581 2 2412, #12G, 34°C 2 20 103C FREEZER COIL 2 2 2 2 2 2 2 2 2				1				1440	1440	120	120	1 1		_		+		
10				2		2652	1581			120	120					+		
Bit	57							2652	1581							T		
83 E704 FRYER			20	1	2#12, #12G, 3/4"C					720	600	2#12, #12G, 3/4"C	1	20	E633 GRIDDLE			
Second Fayer 20				1		600	1920	1000	1000							+		
Second S				1				1920	1920	1000	1501					+		
Second Description				1		600	1581			1920	1361	2#12, #12G, 3/4 C				+		
71 SPARE				1		000	1001	1920	2652			2#8, #10G, 1"C			E103.1 REFR. SYSTEM			
75 SPARE				1						0	2652					Ť		
77 SPARE 20 1 0 0 0 1 20 SPARE 78 SPARE 20 1 0 0 0 1 20 SPARE 83 SPARE 20 1 0 0 0 1 20 SPARE 83 SPARE 20 1 0 0 0 1 20 SPARE 83 SPARE 20 1 0 0 0 1 20 SPARE 85 SPARE 20 1 0 0 0 1 20 SPARE 85 SPARE 20 1 0 0 0 1 20 SPARE 86 SPARE 20 1 0 0 0 1 20 SPARE 87 SPARE 20 1 0 0 0 1 20 SPARE 89 SPARE 20 1 0 0 0 1 20 SPARE 89 SPARE 20 1 0 0 0 1 20 SPARE 89 SPARE 20 1 0 0 0 1 20 SPARE 80 SPARE 20 1 0 0 0 1 20 SPARE 80 SPARE 20 1 0 0 0 1 20 SPARE 80 SPARE 20 1 0 0 0 1 20 SPARE 80 SPARE 20 1 0 0 0 1 20 SPARE 80 SPARE 20 1 0 0 0 1 20 SPARE 80 SPARE 20 1 0 0 0 1 20 SPARE 80 SPARE 20 1 0 0 0 1 20 SPARE 80 SPARE 20 1 0 0 0 1 20 SPARE 80 SPARE 20 1 0 0 0 1 20 SPARE 80 SPARE 20 1 1 20 SPARE 80 SPARE 20 1 1 20 SPARE 80 SPARE 20 1 1 20 SPARE 80 SPARE 20 1 1 20 SPARE 80 SPARE 20 1 1 20 SPARE 80 SPARE 20 1 1 20 SPARE 80 SPARE 20 1 1 20 SPARE 80 SPARE 20 1 1 20 SPARE 81 SPARE 20 1 1 20 SPARE 82 SPARE 20 1 1 20 SPARE 83 SPARE 20 1 1 20 SPARE 84 SPARE 20 1 1 20 SPARE 85 SPARE 20 1 1 20 SPARE 86 SPARE 20 1 1 20 SPARE 87 SPARE 20 1 1 20 SPARE 88 SPARE 20 1 1 20 SPARE 89 SPARE 20 1 1 20 SPARE 80 SPARE 20 1 1 20 SPARE 80 SPARE 20 1 1 20 SPARE 80 SPARE 20 1 1 20 SPARE 80 SPARE 20 1 1 20 SPARE 80 SPARE 20 1 1 20 SPARE 81 SPD-K-A/B 30 3 3 0 8864 1 20 SPARE 81 SPD-K-A/B 30 3 3 40 AHU-3 (EXISTING MSB 81 SPARE 30 8864 1 3 40 AHU-3 (EXISTING MSB			20	1		0	0						1	20		I		
79 SPARE				1				0	0	_	_		1			_		
SPARE 20 1				1						0	0		1			+		
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SPARE 20 1 0 0 0 0 1 20 SPARE 37 SPARE 20 1 0 0 0 0 1 20 SPARE 38 SPARE 20 1 0 0 0 1 20 SPARE 39 SPARE 20 1 0 0 0 1 20 SPARE 30 SPARE 30 SPARE 20 1 0 0 0 1 20 SPARE 30 SPARE 30 SPARE 20 1 0 0 0 1 20 SPARE 30 SPARE				1				0		0	0		-			+		
89 SPARE 20 1 0 0 0 1 20 SPARE 91 SPARE 20 1 0 0 0 1 20 SPARE 93 SPARE 20 1 0 0 0 0 1 20 SPARE 95 SPARE 20 1 0 0 0 0 1 20 SPARE 96 SPARE 20 1 0 0 0 0 1 20 SPARE 97 SPARE 20 1 0 0 0 0 1 20 SPARE 98 SPARE 20 1 0 0 0 0 1 20 SPARE 99 SPARE 20 1 0 0 0 0 1 20 SPARE 99 SPARE 20 1 0 0 0 0 1 20 SPARE 90 SPARE 90 SPARE 90 1 SPARE 90 1 0 0 0 0 1 20 SPARE 90 SPARE 90 1 SPARE 90 1 0 0 0 0 1 20 SPARE 90 SPARE 90 SPARE 90 1 1 20 SPARE 90 SPARE 90 SPARE 90 1 1 20 SPARE 90 S				1		0	0			-	-		1	20		Ť		
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99 SPARE 20 1 0 0 0 1 20 SPARE 01 SPARE 20 1 0 0 0 1 20 SPARE 03 SPARE 20 1 0 0 0 1 20 SPARE 05 SPARE 20 1 0 0 0 1 20 SPARE 05 SPARE 20 1 0 0 0 1 20 SPARE 07 SPARE 20 1 1 20 SPARE 09 AHU-4 (EXISTING MSBB) 60 3 13296 0 1 20 SPARE 11 1 20 SPARE 11 1 20 SPARE 11 1 20 SPARE 11 1 20 SPARE 11 20				1		0	0			U	U		1			+		
03 SPARE 20 1 0 0 1 20 SPARE 05 SPARE 20 1 0 0 1 20 SPARE 07 SPARE 20 1 0 0 1 20 SPARE 09 AHU-4 (EXISTING MSBB) 60 3 13296 0 1 20 SPARE 11 13296 0 1 20 SPARE 13 13296 0 1 20 SPARE 13 13296 0 1 20 SPARE 15 SPD-K-A/B 30 3 0 8864 3 40 AHU-3 (EXISTING MSB 17 0 8864 <td< td=""><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td>0</td><td>0</td><td></td><td></td><td></td><td>-</td><td></td><td></td><td>\dagger</td></td<>				1				0	0				-			\dagger		
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07 SPARE 20 1 13296 0 0 0 1 20 SPARE 09 AHU-4 (EXISTING MSBB) 60 3 13296 0 1 20 SPARE 11 13296 0 1 20 SPARE 13 13296 0 1 20 SPARE 15 SPD-K-A/B 30 3 0 8864 3 40 AHU-3 (EXISTING MSB 17 0 8864				1		0	0						1	20		1		
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11 13296 0 1 20 SPARE 13 13296 0 1 20 SPARE 15 SPD-K-A/B 30 3 0 8864 3 40 AHU-3 (EXISTING MSB 17 0 8864 19 0 8864 Total Load: 47557 VA 52298 VA 43806 VA				1		12206				0	0					4		
13 1 20 SPARE 15 SPD-K-A/B 30 3 0 8864 3 40 AHU-3 (EXISTING MSB 17 0 8864 19 Total Load: 47557 VA 52298 VA 43806 VA		,				13290	U	13206	n				•					
15 SPD-K-A/B 30 3 0 8864 3 40 AHU-3 (EXISTING MSB 17 19 0 8864								10230	J	13296	0		1			+		
17 0 8864			1			0	8864						3		AHU-3 (EXISTING MSBB)	+		
Total Load: 47557 VA 52298 VA 43806 VA								0	8864							_		
	19									-						\perp		
					ı													
Total Amps : 401 A 441 A 365 A					Total Amps:	401	Α	44	1 A	36	5 A							

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

E	Mounting: EX inclosure: EX C. Rating: EX	NG			Volts: Phases: Wires:		Wye		Frame	Rati Rati	ng: 40			
Circuit Description	Trip (amp s)	Pol es	Wire Size	Appare	A nt Power amps)	Apparei	B nt Power amps)	Appare	C nt Power amps)	Wire Size	Pol es	Trip (amp s)	Circuit Description	
1 AHU-A1-5	15	3	4#12, #12G, 3/4"C	803	2105					4#12, #12G, 3/4"C	3	20	LEF-L1-1	2
3						803	2105							4
5								803	2105					6
7 EXISTING	70	3		0	0						3	70	EXISTING	8
9						0	0				-			10
11								0	0		-			1:
13 EXISTING	70	3		0	0						3	70	EXISTING	1
15						0	0				-			1
17								0	0		-			1
19 SPARE	20	3		0	0						3	60	EXISTING	2
21						0	0				-			2
23								0	0		-			2
25 EXISTING	30	3		0	0						3	30	EXISTING	2
27						0	0				-			2
29								0	0					3
31 EXISTING SPD	20	3		0	0						3	20	EXISTING	3
33						0	0							3
35								0	0					3
			Total Load:	290	9 VA	290	9 VA	290	9 VA					
			Total Amps:	1	1 A	11	1 A	1	1 A					
Load Classification			Connect	ed Load	De	mand Fa	ctor	Estimat	ted Dema	nd		Р	anel Totals	
Motor			8726	6 VA		100.00%	6	87	726 VA					
													oad: 8726 VA	
										Tota	al Es	t. Dem	and: 8726 VA	
													rent: 10 A	
										Total Est. D	emar	nd Cur	rent: 10 A	

		iting: RE sure: NE iting: 45,	MA 4				Volts: Phases: Wires:		Wye		Frame MCB	Rati Rati	ng: MC ng: 400 ng: 400 om: MS) A) A	
	Circuit Description	Trip (amp s)	Pol es	Wire Size	,	A	E	3	C	:	Wire Size	Pol es	Trip (amp s)	Circuit Description	
1 E	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							
5 -	-								7200	7200					
7 E	201A LOAD CENTER	80	3	4#3, #8G, 1-1/2"C	7200	384					4#12, #12G, 3/4"C	3	20	E708 SCRAP COLLECTOR	T
9 -	-						7200	384							
11 -	-								7200	384					
13 k	KITCHEN SOFT WATER	20	1	2#12, #12G, 3/4"C	1800	180					2#12, #12G, 3/4"C	1	20	WH-1 (K)	T
15 E	E10 CONV. RECEPT	20	1	2#12, #12G, 3/4"C			720	720			2#12, #12G, 3/4"C	1		E11 CONV. RECEPT	\top
	E11 CONV. RECEPT	20	1	2#12, #12G, 3/4"C					720	1924	2#10, #10G, 3/4"C	2		E109A ICE MACHINE	\top
	E139 INSUL. MOBILE	20	1	2#12, #12G, 3/4"C	1800	1924									+
	E134 40QT MIXER	20	3	4#12, #12G, 3/4"C			672	672			4#12, #12G, 3/4"C	3	20	E134 40QT MIXER	+
23 -	-						V	V. E	672	672					+
25 -	-				672	672			012	0,2					+
	E139 INSUL. MOBILE	20	1	2#12, #12G, 3/4"C	012	012	1800	384			4#12, #12G, 3/4"C	3		E708 SCRAP COLLECTOR	+
_	E11 CONV. RECEPT	20	<u></u>	2#12, #12G, 3/4"C			1000	304	720	384					+
_	E11 CONV. RECEPT	20	<u>'</u>	2#12, #12G, 3/4"C	720	384			120	304					+
_	E821 BLAST CHILLER	30		4#10, #10G, 3/4"C	120	304	1200	1200			 4#10, #10G, 3/4"C	3		E821 BLAST CHILLER	\dashv
_			3	4#10, #10G, 3/4 C			1200	1200	4000	4000	4#10, #10G, 3/4 C				\dashv
35 -					4000	4000			1200	1200					4
37 -					1200	1200									4
	ΓEF-K-1	20	1	2#12, #12G, 3/4"C			120	180			2#12, #12G, 3/4"C	1		WH-2 (K)	\perp
	-CU-K1-1	20	2	2#12, #12G, 3/4"C					1404	180	2#12, #12G, 3/4"C	1		RP-1 (K)	\perp
- 3					1404	1404					2#12, #12G, 3/4"C	2	20	FCU-K1-2	
	TEF-K-2	20	2	2#12, #12G, 3/4"C			600	1404							
ŀ7 -	-								600	1200	2#12, #12G, 3/4"C	1	20	E644 CORD REEL	
19 E	E644 CORD REEL	20	1	2#12, #12G, 3/4"C	1200	1200					2#12, #12G, 3/4"C	1	20	E644 CORD REEL	
51 E	E644 CORD REEL	20	1	2#12, #12G, 3/4"C			1200	1200			2#12, #12G, 3/4"C	1	20	E644 CORD REEL	
3 E	E644 CORD REEL	20	1	2#12, #12G, 3/4"C					1200	0		1	20	SPARE	
55 8	SPARE	20	1		0	0						1	20	SPARE	
57 8	SPARE	20	1				0	0				1	20	SPARE	
9 8	SPARE	20	1						0	0		1	20	SPARE	
31 8	SPARE	20	1		0	0						1	20	SPARE	
33 8	SPARE	20	1				0	0				1	20	SPARE	
35 8	SPARE	20	1						0	0		1	20	SPARE	T
57 5	SPARE	20	1		0	0						1	20	SPARE	_
	SPARE	20	1				0	0				1	20	SPARE	_
	SPARE	20	1						0	0		1		SPARE	T
	SPARE	20	1		0	0						1		SPARE	_
	SPARE	20	1				0	0				1		SPARE	T
	SPARE	20	1						0	0		1		SPARE	\exists
	SPD-K-C/D	30	3		0	0						1		SPARE	+
31 -							0	0				1		SPARE	+
33 -								0	0	0		1		SPARE	+
-	_			Total Load:	377/	4 VA	3405	∟ 66 VA	3406			•	20	OI AIL	_
				Total Amps:		5 A		4 A	284						
oad	Classification			Connecte	ed Load	De	mand Fa	ctor	Estimate	ed Dema	nd		Pa	anel Totals	_
lotor				7476	VA		100.00%	5	74	76 VA					_

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

	Enclosu A.I.C. Ratir		MA 4		Volts: 120/208 Wye Phases: 3 Wires: 4								Mains Type: MCB Frame Rating: 400 A MCB Rating: 400 A Supply From: MSBB						
	Circuit Description	Trip (amp s)	Pol es	Wire Size	Apparei	A nt Power amps)	Apparer	3 nt Power amps)	Apparer (volt-		Wire Size	Pol es	Trip (amp s)	Circuit Description					
1	E811 SODA DISPENSER	20	1	2#12, #12G, 3/4"C	1440	360					2#12, #12G, 3/4"C	1	20	E813 JUICE DISPENSER	T				
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 MACHINE	T				
5	E811 SODA DISPENSER	20	1	2#12, #12G, 3/4"C					1440	1680	2#12, #12G, 3/4"C	1	20	E812 TEA/COFFEE BREWER	T				
7	E813 JUICE DISPENSER	20	1	2#12, #12G, 3/4"C	360	720					2#12, #12G, 3/4"C	1	20	E10 CONV. RECEPT	T				
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 REFRIGERATOR					
13	N DINING LIGHTING	20	1	2#10, #10G, 3/4"C	1214	900					2#12, #12G, 3/4"C	1	20	E804 PIZZA PREP TABLE					
15	E153 HOOD LIGHTS	20	1	2#12, #12G, 3/4"C			1200	1200			2#12, #12G, 3/4"C	1	20	E153M HEAT SENSOR					
17	E153 HOOD LIGHTS	20	1	2#12, #12G, 3/4"C					1200	1200	2#12, #12G, 3/4"C	1	20	E153M HEAT SENSOR					
19	E10 CONV. RECEPT	20	1	2#12, #12G, 3/4"C	720	720					2#12, #12G, 3/4"C	1	20	E10 CONV. RECEPT					
21	E819 GAS GRIDDLE	20	1	2#12, #12G, 3/4"C			720	1612			2#12, #12G, 3/4"C	2	20	E187 HEATED CABINET					
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 CABINET					
27	W DINING LIGHTING	20	1	2#10, #10G, 3/4"C			1250	1612											
29	DINING LIGHTING	20	1	2#10, #10G, 3/4"C					1125	1241	2#10, #10G, 3/4"C	1	20	E DINING LIGHTING					
31	E DINING LIGHTING	20	1	2#10, #10G, 3/4"C	1050	941					2#10, #10G, 3/4"C	1	20	SERVERY/KITCHEN					
33	KITCHEN LIGHTING	20	1	2#10, #10G, 3/4"C			1213	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 RECEPT					
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 RECEPT					
43	E DINING RECEPT	20	1	2#10, #10G, 3/4"C	1080	360					2#12, #12G, 3/4"C	1	20	JANITOR/STORAGE RECEPT	1				
45	RR RECEPT	20	1	2#12, #12G, 3/4"C			540	540			2#10, #10G, 3/4"C	1	20	RR RECEPT					
47	VRH-K-1,2,3,4	20	1	2#12, #12G, 3/4"C					400	300	2#12, #12G, 3/4"C	1	20	VRG-K-5,6,7	Τ.				
49	VRH-K-8,9,10	20	1	2#12, #12G, 3/4"C	300	500					2#12, #12G, 3/4"C	1	20	VRH-K-11,12,13,14, 15					
51	CONV. RECEPT	20	1	2#12, #12G, 3/4"C			720	1303			2#12, #12G, 3/4"C	1	20	W DINING LIGHTING					
53	HYDROPONICS POWER	20	1	2#12, #12G, 3/4"C					360	720	2#12, #12G, 314"6	_	~20~	E19,CONV.RECERT	$\overline{\lambda}$				
55	SPD-1A	30	3		0	0				{	2#10, #10G, 3/4"C	1		EXTERIOR SIGNAGE					
57							0	0		1		4	~20~	SPARE	7				
59									0	0		1	20	SPARE					
				Total Load: Total Amps:		59 VA 5 A		8 A		4 VA 3 A									
	Classification			Connecto	Connected Load				Estimat	ed Demar	nd		Р	anel Totals	_				
_oad	Olassification				9660 VA				12075 VA				•	and rotalo					
Load Lighti							mand Fa 125.00%							unor rotato	_				

100.00%

79.34%

65.00%

720 VA

13520 VA

15961 VA

Total Est. Demand: 43777 VA

Panel Totals

Total Conn. Load: 173103 VA Total Est. Demand: 116125 VA Total Conn. Current: 208 A Total Est. Demand Current: 140 A

Total Conn. Current: 148 A

Total Est. Demand Current: 122 A

720 VA

17040 VA

24556 VA

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

	Ma4!														
	Mountir Enclosu A.I.C. Ratir		MA 4				Volts: Phases: Wires:		Wye		Frame	Rati Rati	ng: 22	5 A 5 A	
	Circuit Description	Trip (amp s)	Pol es	Wire Size	Apparer	A nt Power amps)			C Apparent Power (volt-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	:
3							7728	8005							4
5									7728	8005					(
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							1
11									9806	10775					1:
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							1
17									1745	9003					1
19	REF-K-1	20	3	4#12, #12G, 3/4"C	2770	3601					4#12, #12G, 3/4"C	3	20	E256 POWERWASH SINK	2
21							2770	3601							2
23									2770	3601					2
25	E256 POWERWASH SINK	20	3	4#12, #12G, 3/4"C	3601	333					4#12, #12G, 3/4"C	3	20	KEF-1	2
27							3601	333							2
29									3601	333					3
31	KEF-2	20	3	4#12, #12G, 3/4"C	333	0						1	20	SPARE	3
33							333	0				1	20	SPARE	34
35									333	0		1	20	SPARE	3
37	SPD-HK	30	3		0	0						1	20	SPARE	3
39							0	0				1	20	SPARE	4
41									0	0		1	20	SPARE	42

Total Load: 57701 VA 57701 VA 57701 VA

Demand Factor

100.00%

65.00%

Connected Load

10310 VA

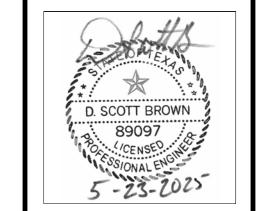
162793 VA

Estimated Demand

10310 VA

105815 VA

REVISION SUMMARY: - ADDED EXTERIOR SIGNAGE TO PANELBOARD 1A SCHEDULE.



TRE,

©2023 Purdy - McGuire Mechanical - Electrical Engineer

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Dallas, TX 75248-1147
Firm Registration # F-1511 Tel: 972/239-5357 Fax: 972/239-5231 www.purdy-mcguire.com SCOTT BROWN,
MITCHELL HENTON
MITCHELL HENTON
CHRIS WOODYARD
JOHN KNOWLES

PMI JOB NO. PROJECT MGR.

MECHANICAL 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.

UNIVE

OF NORTH TEXAS

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REVISIONS DESCRIPTION DATE Addendum 2 05.23.25

iE803

LOCATION.

Total Est. Demand: 117404 VA

Total Conn. Current: 399 A

Total Est. Demand Current: 326 A

1. PANELBOARD SHALL BE A SINGLE SECTION PANELBOARD WITH ONE 42 SINGLE POLE SLOT SECTION. Total Conn. Current: 294 A Total Est. Demand Current: 205 A

Load Classification

Receptacle

ELECTRICAL PANEL SCHEDULES - KITCHEN TreanorHL NO. HE0569.2302.01 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

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.

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.

ADHERE TO ALL TELECOMMUNICATIONS CABLING STANDARDS SET FOURTH IN THE ANSI-TIA 568-C STANDARDS

COMMUNICATIONS ROOMS

AND DRAWINGS PRIOR TO INSTALLING CABLE.

RACK ELEVATIONS AND NETWORK EQUIPMENT ARE SHOWN FOR COORDINATION AND INFORMATIONAL PURPOSES ONLY.

INSTALL 8'H X 4'W X 34' 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

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.

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

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 CABLES TO EACH DATA OUTLET. 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

STRAINING CONNECTIONS. 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 TO MINIMIZE DUST ON CONTACTS.

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 FROM OWNER IT.

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

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 EXITING THE BUILDING

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 FOR CABLE AND OUTLET TYPE

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 REQUIREMENTS.

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.

IT DRAWINGS INDEX

TELECOM - INDEX (KITCHEN & DINING) T101B TELECOM - FLOOR PLAN (KITCHEN & DINING)

T151B TELECOM - REFLECTED CEILING PLAN (KITCHEN & DINING) T500B TELECOM - DETAILS (KITCHEN & DINING)

T501B TELECOM - 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

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.

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 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

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.

TELECOM SYMBOLS LEGEND

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

ABBREVIATIONS

TR

UPS

UTP

WAP

ABOVE FINISHED FLOOR **ACCESS PANEL** AMERICAN WIRE GAUGE CATV COMMUNITY ANTENNA TELEVISION CON CONDUCTOR DB **DECIBEL** DEMARC DEMARCATION POINT EMT ELECTRIC METALLIC TUBING **EQUIPMENT ROOM** GC GENERAL CONTRACTOR HANDHOLE INTERMEDIATE DISTRIBUTION FRAME INFORMATION OUTLET INTERMEDIATE RIGID CONDUIT ISP INTERNET SERVICE PROVIDER LAN LOCAL AREA NETWORK MDF MAIN DISTRIBUTION FRAME MAINTENANCE HOLE MULTIMODE OCP OUTSIDE CABLE PLANT OFOI OWNER FURNISHED OWNER INSTALLED OTDR OPTICAL TIME DOMAIN REFLECTOMETER PULL BOX PRIMARY BONDING BUSBAR PRIVATE BRANCH EXCHANGE POLYVINYL CHLORIDE RACK BONDING BUSBAR RADIO FREQUENCY RMC RIGID METAL CONDUIT SBB SECONDARY BONDING BUSBAR SM SINGLEMODE SERVICE PROVIDER STP SHIELDED TWISTED PAIR TB TERMINAL BLOCK TBB TELECOMMUNICATIONS BONDING BACKBONE TBC TELECOMMUNICATIONS BONDING CONDUCTOR

TELECOM ROOM

UNINTERRUPTIBLE POWER SUPPLY

UNSHIELDED TWISTED PAIR

WIRELESS ACCESS POINT

TRADE SIZE

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

IT RESPONSIBILITY MATRIX

GC IT CONTRACTOR OWNER X - (OFOI) X - (OFCI) X - (OFOI) COMPUTERS

REVISIONS

CONSTRUCTION

JANUARY 30, 2025

DESCRIPTION DATE

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EXPIRES 12-31-2026

* RCDD *

TRE

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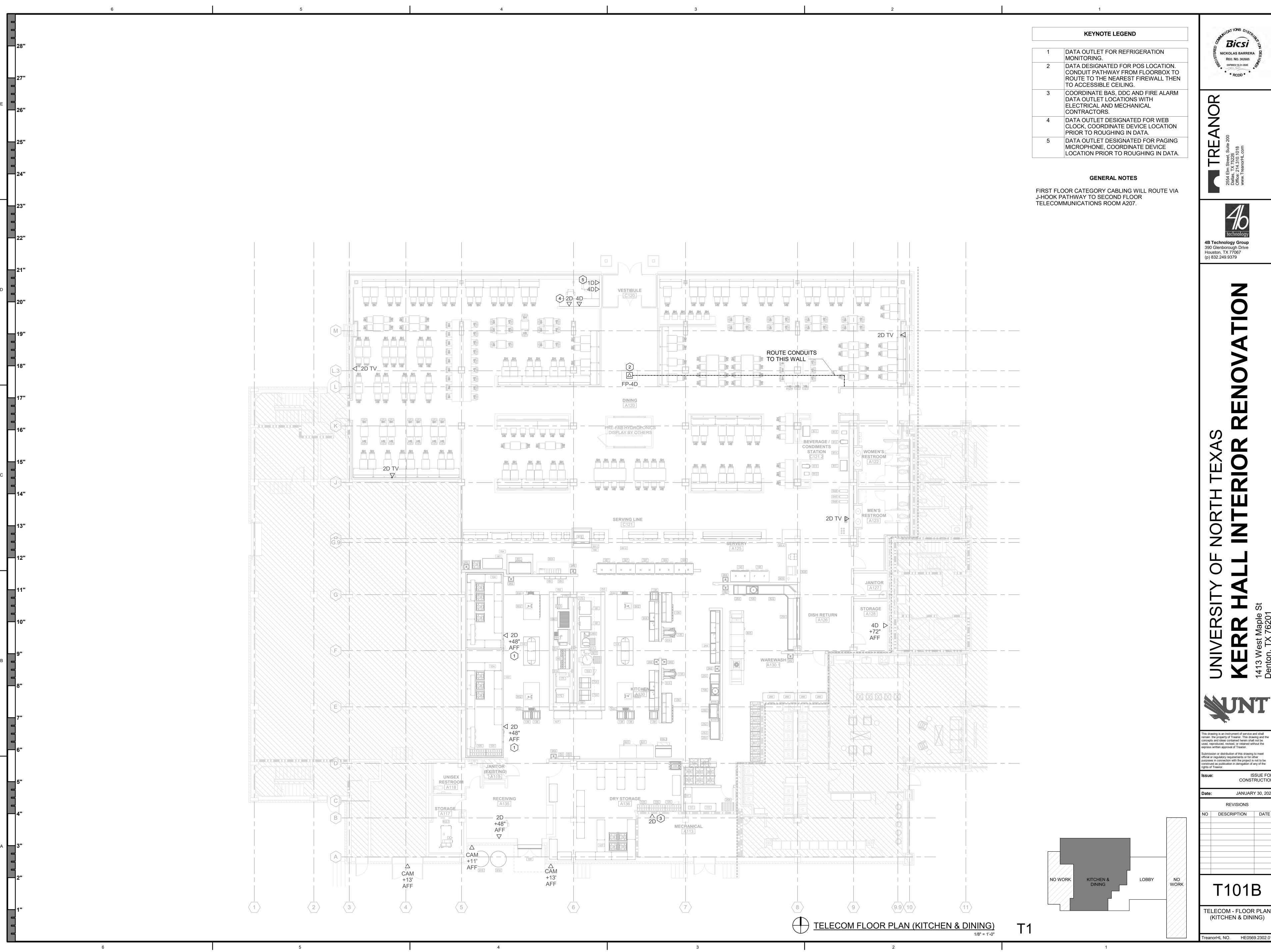
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TELECOM - INDEX (KITCHEN & DINING)



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CONSTRUCTION

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NO DESCRIPTION DATE

T101B

TELECOM - FLOOR PLAN (KITCHEN & DINING)



GENERAL NOTES

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NICKOLAS BARRERA

REG. NO. 362685

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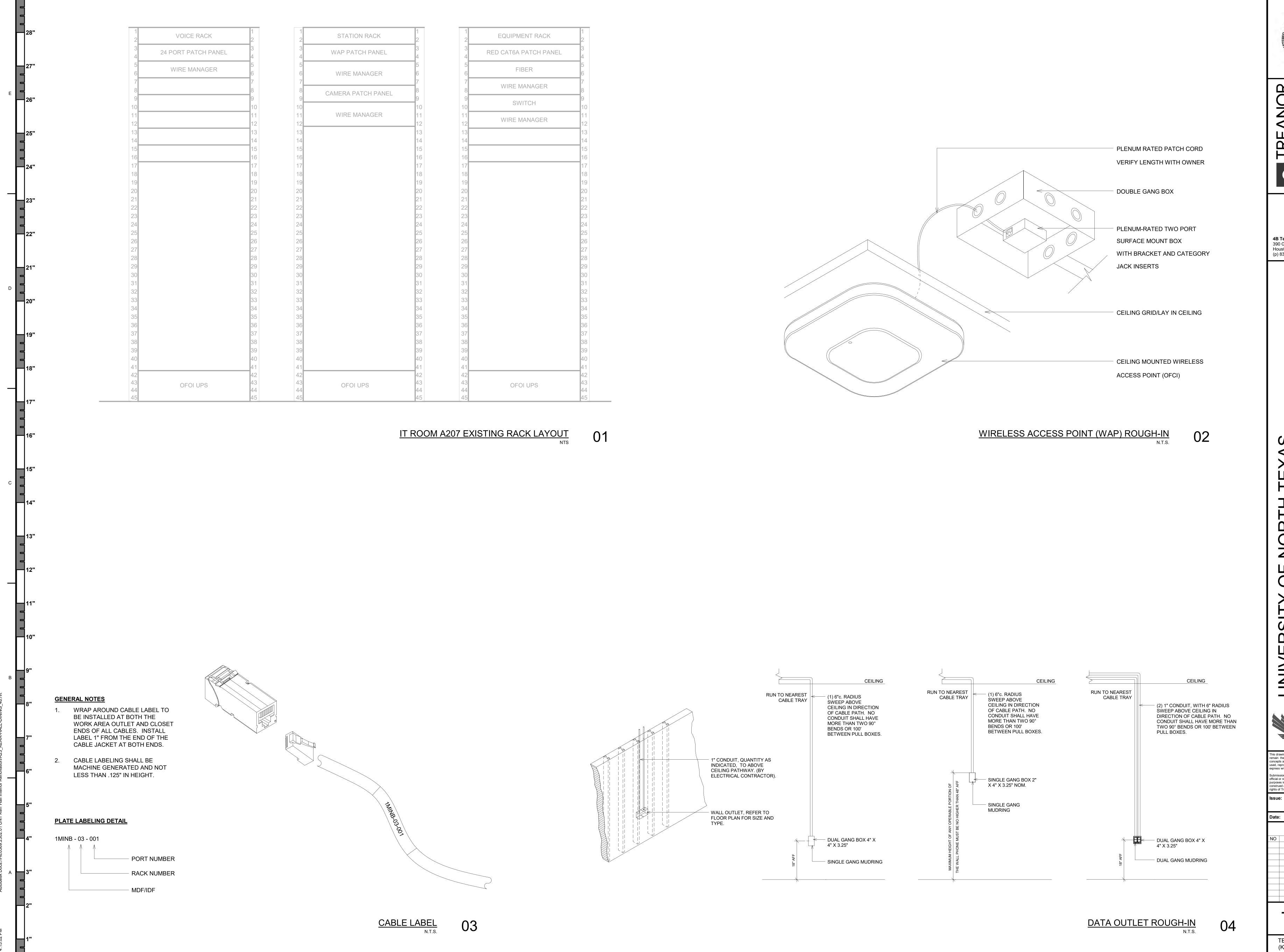
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NO DESCRIPTION DATE

T151B

KITCHEN & DINING

TELECOM - REFLECTED CEILING PLAN (KITCHEN & DINING)





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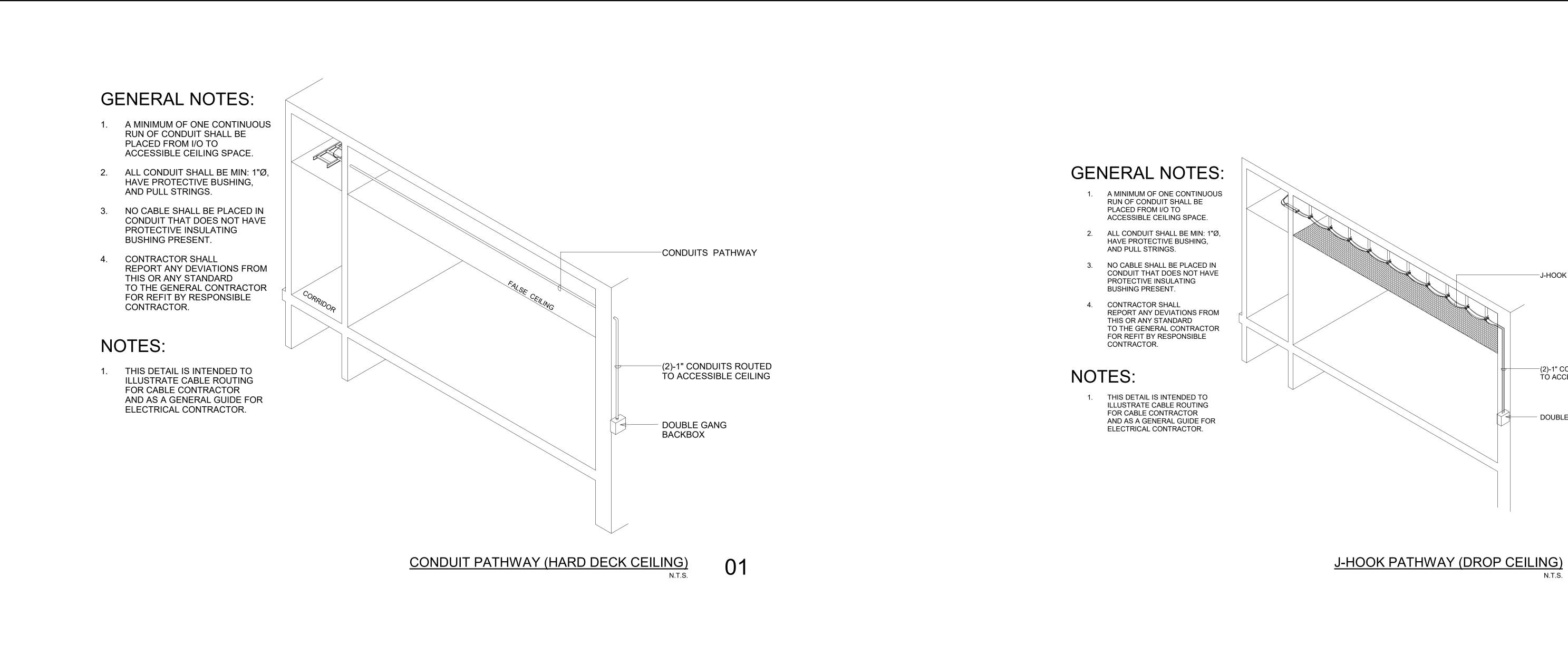
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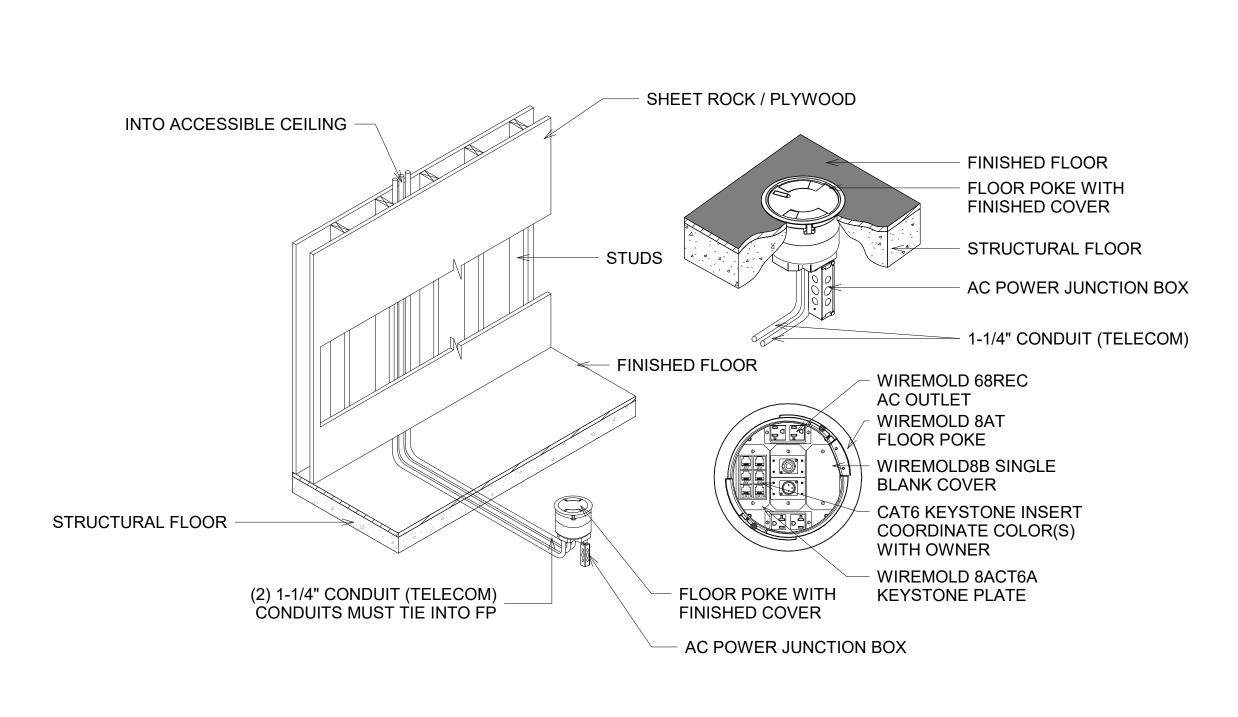
T500B

TELECOM - DETAILS (KITCHEN & DINING)



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.



"FP" FLOOR POKE ROUGH-IN DETAIL









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T501B

- CABLES

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

SUPPORT WIRE

- J-HOOK CABLE SUPPORT

-J-HOOK PATHWAY

(2)-1" CONDUITS ROUTED

TÓ ACCESSIBLE CEILING

DOUBLE GANG BACKBOX

CONSTRUCTION

TELECOM - DETAILS (KITCHEN & DINING)

AUDIOVISUAL SYMBOL LEGEND

SYMBOL	TAG	DESCRIPTION	POWER REQUIREMENTS	DATA REQUIREMENTS	CONDUIT REQUIREMENTS	NOTES
	S1	IN-CEILING SPEAKER (70V)	N/A	N/A	N/A	DASHED LINE(S) AND TEXT ON PLAN REPRESENTS RECOMMENDED SPEAKER CABLING WIRING AND ZONE ASSIGNMENT(S).
	WR	WALL RACK	(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/A
	XX" DSD-C	DIGITAL SIGNAGE DISPLAY (CEILING MOUNTED) INFRASRTUCTURE ONLY	120VAC/20A DUPLEX OUTLET INSTALLED AT CEILING ABOVE FUTURE DISPLAY LOCATION.	REFER TO TELECOM PLANS.	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.
	XX" DSD-W	DIGITAL SIGNAGE DISPLAY (WALL MOUNTED) INFRASRTUCTURE ONLY	120VAC/20A DUPLEX OUTLET INSTALLED AT WALL BEHIND FUTURE DISPLAY LOCATION.	REFER TO TELECOM PLANS.	N/A	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.

AUDIOVISUAL DRAWINGS INDEX

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

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)	-	X	-
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	-	X	-

GENERAL NOTES

- THE ARCHITECTURAL PLANS AND SPECIFICATIONS, GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS AND SPECIFICATIONS AND REQUIREMENTS OF OTHER DIVISIONS REQUIRE COORDINATION AND SHALL APPLY TO THE DIVISION 27 CONTRACTOR. ANY CONTRADICTING INFORMATION NEEDING CLARIFICATION SHALL BE SUBMITTED VIA A "REQUEST FOR INFORMATION" (RFI) TO THE GC.
- 2. 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.
- 3. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE CONDITIONS TO DETERMINE THE EXTENT OF WORK AND CONDITIONS UNDER WHICH IT WILL NEED TO BE DONE. REVIEW AND VERIFY CONTRACT DOCUMENTS IN RELATION TO FIELD CONDITIONS TO VERIFY ACCURACY. THE OWNER AND DESIGN TEAM SHALL BE CONSULTED AS NEEDED FOR CLARIFICATION OR DIRECTION REGARDING ANY PROJECT RELATED QUESTIONS PRIOR TO PROCEEDING WITH THE WORK OR RELATED WORK IN QUESTION.
- I. DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER AND DESIGN TEAM FOR CLARIFICATION.
- 5. REFER TO AUDIOVISUAL CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS AS A UNIT, AND IN WHOLE, IN THE BIDDING AND INSTALLATION OF THIS PROJECT.
- CONTRACTOR SHALL NOTE AND REPORT TO THE GC, ANY WORK PERFORMED BY THE ELECTRICAL CONTRACTOR OR ANY OTHER TRADE, INTENDED FOR SUPPORTING THE AUDIOVISUAL SYSTEMS, WHICH DOES NOT COMPLY WITH AUDIOVISUAL SPECIFICATIONS AND DRAWINGS.
- 7. CONTRACTOR SHALL TAKE NECESSARY MEANS TO PROTECT AUDIOVISUAL SYSTEM COMPONENTS FROM MECHANICAL DAMAGE BEFORE, DURING AND AFTER CONSTRUCTION.
- 8. THE CONTRACTOR SHALL OBTAIN THE OWNER'S AND STRUCTURAL ENGINEER'S WRITTEN PERMISSION PRIOR TO PROCEEDING WITH ANY WORK NECESSITATING CUTTING INTO OR THROUGH ANY PART OF BUILDING STRUCTURES SUCH AS GIRDERS, BEAMS, CONCRETE OR TILE FLOORS, PARTITIONS AND/OR CEILINGS.
- 9. 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 REQUIRED FOR A COMPLETE SYSTEM.
- 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

- 1. AUDIOVISUAL DRAWINGS CONTAIN INFORMATION RELATED TO MULTIPLE TRADES (FRAMING, ELECTRICAL, ETC.) AND REQUIRES COORDINATION WITH THE GENERAL CONTRACTOR.
- 2. CONTRACTOR SHALL COORDINATE ALL AV PLATE FINISHES WITH THE ARCHITECT.
- 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE FINAL LOCATIONS OF ALL SPEAKERS, PROJECTORS, CAMERAS AND MICROPHONES WITH MECHANICAL, ELECTRICAL AND PLUMBING (MEP) OVERHEAD LAYOUT. CONTACT ARCHITECT AND AV CONSULTANT OF ANY DISCREPANCIES.
- 4. CONTRACTOR TO INSTALL CEILING-MOUNTED SPEAKERS CENTERED IN CEILING TILE.
- 5. CONTRACT TO COORDINATE WITH THE OWNER ON ALL FINAL LOCATIONS FOR AUDIO-VIDEO CONTROL PLATES AND INTERCONNECT PLATES.
- WALLS WITH DISPLAYS MOUNTED ON OPPOSING SIDES OF THE WALL MUST BE FRAMED OUT FOR BACK BOXES TO FIT BACK-TO-
- 7. THIS SHEET INCLUDES A RESPONSIBILITY MATRIX FOR ALL AV AND AV-RELATED ITEMS. ADDITIONAL COORDINATION FOR FURNITURE INSTALLATION WILL BE REQUIRED.
- 8. DATA AND FIBER OPTIC 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 ¾" 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

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

REQUIRE CONDUIT BACK TO ACCESSIBLE CEILING SPACE.

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.



Elm Street, Suite 200 s, TX 75226 s; 214.310.1018 TreanorHL.com





OVATION

R HALL INTERIOR RENC

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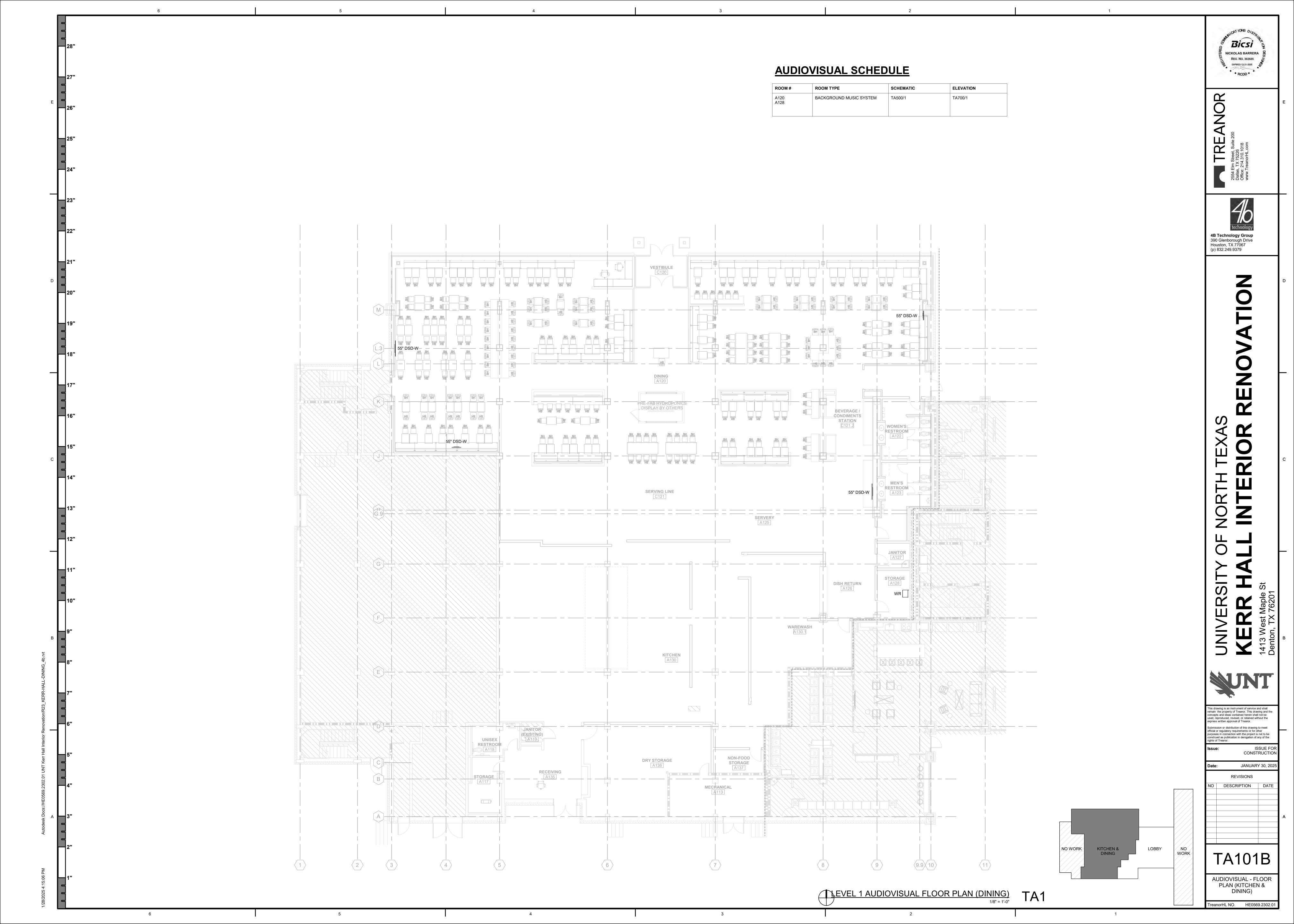
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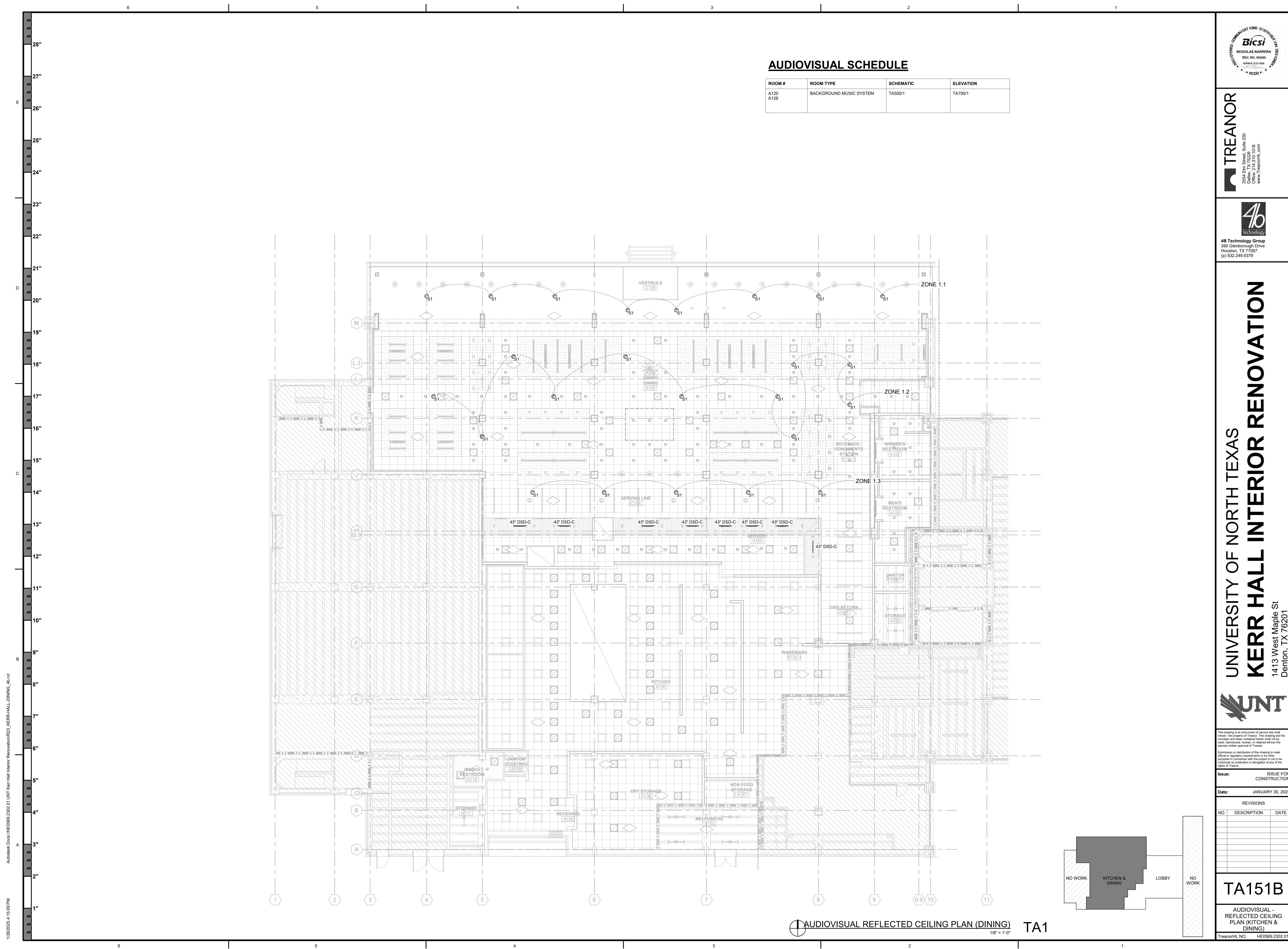
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TA000B

AUDIOVISUAL - INDEX





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ISSUE FOR CONSTRUCTION JANUARY 30, 2025 REVISIONS NO DESCRIPTION DATE

TA500B

AUDIOVISUAL -SCHEMATICS

BACKGROUND MUSIC SYSTEM
NTS

CEILING

S1 (ZONE 1.1)

S1 (ZONE 1.2)

SPEAKER IN

SPEAKER IN

S1 (ZONE 1.3) ETHERNET NET SPEAKER IN

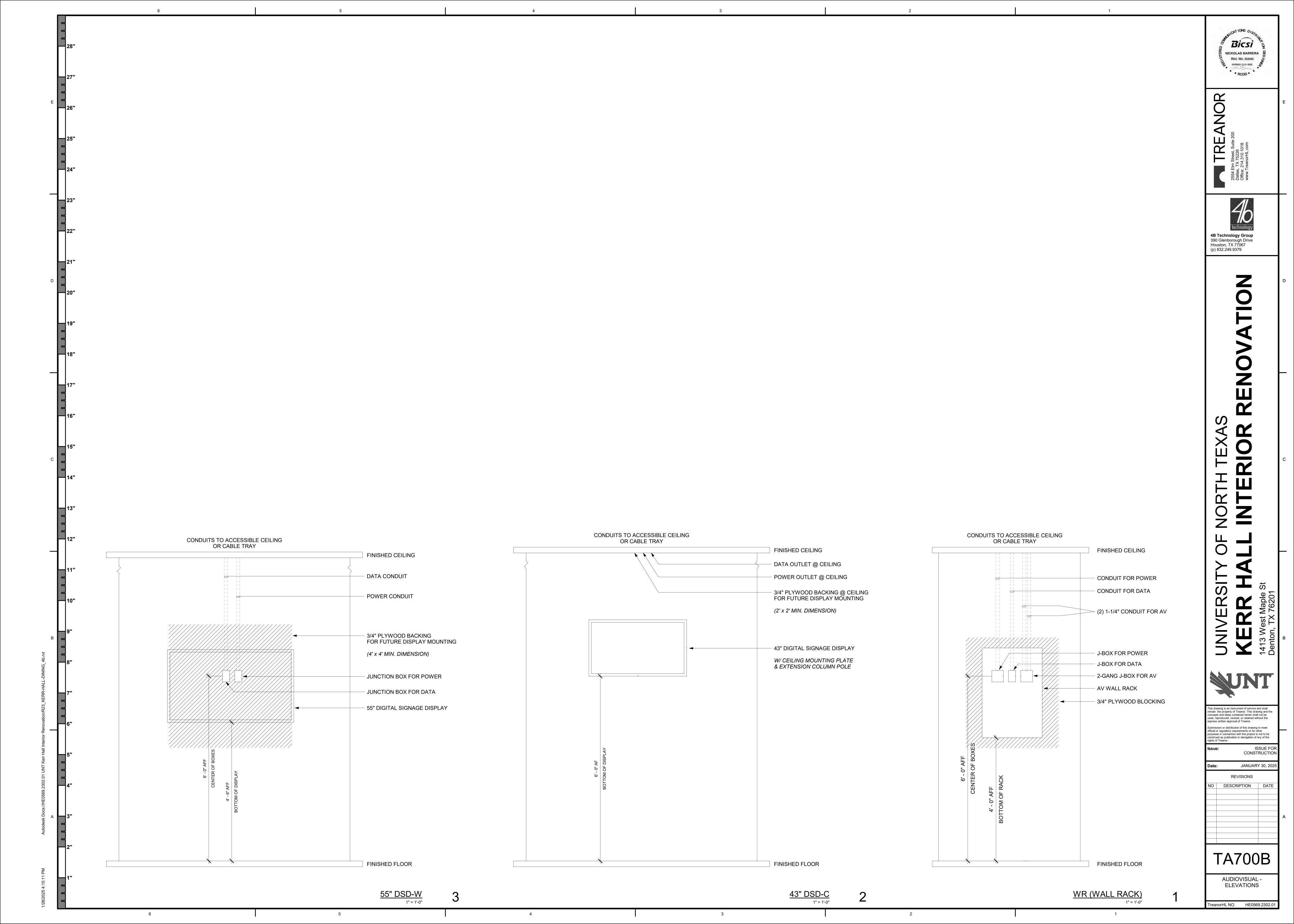
SYMBOL	DESCRIPTION	MAKE	MODEL	NOTES
AIA	AUDIO INPUT ADAPTER	AUDINATE	ADP-DAI-AU-1X0	POWERED VIA POE CONNECTION TO OWNER'S NETWORK.
AMP	AUDIO AMPLIFIER	YAMAHA	XMV4280-D	N/A
AVN / (AVN)	AUDIOVISUAL NETWORK SWITCH	NETGEAR	M4250 SERIES	PROVIDE PORT COUNT AND POE ALLOCATION REQUIRED TO ACCOMMODATE AUDIOVISUAL SYSTEM FUNCTIONALITY PLUS MINUMUM 20% HEADROOM IN BOTH CATAGORIES FOR FUTURE EXPANSION.
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 WITHIN ZONE IN PARALLEL. CONFIGURE EACH SPEAKER TO 70V @ 15W.
WR	AUDIOVISUAL WALL RACK	MIDDLE ATLANTIC	DWR-16-22PD	PROVIDE THE FOLLOWING ACCESSORIES PER DEVICE LOCAITON: (1) MIDDLE ATLANTIC FWD-DWR-RR16 REAR RAIL KIT, (1) MIDDLE ATLANTIC DWRSR-6-FK FANK KIT, (1) ATLAS IED WPD-RP RACKMOUNT GANG PLATE, (1) MIDDLE ATLANTIC PDX920R SURGE PROTECTOR, (TBD) MIDDLE ATLANTIC RACK ACCESSORIES (SHELVES, LACING BARS, SCREWS, ETC.) AS NEEDED.

MANAGER'S DESK (NEXT TO C120 - VESTIBULE)

MIC OUT ETHERNET (NET) MIC IN

WR (WALL RACK)

DSP **AMP** ETHERNET AVN SPEAKER OUT LINE OUT LINE IN ETHERNET (NET) SPEAKER OUT SPEAKER OUT ETHERNET AVN ETHERNET AVN AVN



PROVIDE ALL MATERIALS, COMPONENTS, TOOLS AND LABOR TO INSTALL A COMPLETE VIDEO SURVEILLANCE AND ACCESS CONTROL SYSTEM AS SHOWN IN THE SAFETY AND SECURITY SYSTEM DIVISIONS 27/28 SPECIFICATIONS, "TY" DRAWINGS AND "E" DRAWINGS.

- 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, CONFIRMING WITH OWNER, OR THEIR DESIGNATED REPRESENTATIVE, THAT RELATED WORK HAS BEEN COMPLETED PRIOR TO PROCEEDING WITH INSTALLATION.
- DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER, OR THEIR DESIGNATED REPRESENTATIVE, FOR CLARIFICATION.
- REFER TO SECURITY CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS AS A WHOLE, IN THE BIDDING AND INSTALLATION OF THIS PROJECT.
- NOTE AND REPORT TO THE GC, ANY WORK PERFORMED BY OTHERS, INTENDED FOR THE SECURITY SYSTEM, IF IT DOES NOT COMPLY WITH ELECTRONIC SAFETY
- TAKE NECESSARY MEANS TO PROTECT SECURITY SYSTEM COMPONENTS FROM MECHANICAL DAMAGE, DUST AND DIRT BEFORE, DURING AND AFTER
- ALL COMPONENTS AND DEVICES SHOWN ON THESE DRAWINGS ARE FOR APPROXIMATE LOCATION AND POSITIONING ONLY. VERIFY EXACT LOCATIONS WITH THE OWNER OR GC PRIOR TO INSTALLATION.
- 10. REFERENCE DIVISION 28 SPECIFICATIONS FOR ITEMIZED PRICING REQUIREMENTS.

AND SECURITY SYSTEM SPECIFICATIONS AND DRAWINGS.

SECURITY PATHWAYS

- ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL CONDUITS, PULL STRINGS, CORES AND JUNCTION BOXES AS REQUIRED ON THE "TY" DRAWINGS.
- CONDUIT RUNS SHALL NOT CONTAIN MORE THAN TWO (2) SWEEPING 90 DEGREE BENDS AND NOT EXCEED 100 FEET. IF THESE CONDITIONS CANNOT BE MET. A J-BOX MUST BE PLACED IN THE RUN WITH THE ABILITY TO ACCESS THROUGH THE
- PROPERLY FIRE STOP AND LABELED ALL SECURITY PATHWAY CONDUITS AND UNUSED "SECURITY INTENDED USE CONDUITS" PRIOR TO SUBSTANTIAL COMPLETION.
- CONDUIT SIZES INDICATED ON THE DRAWINGS AND HOME RUN SIZES SHOWN ON DETAIL SHEETS ARE TO BE CONSIDERED THE MINIMUM SIZE TO BE INSTALLED. PROVIDE LARGER OR ADDITIONAL CONDUIT IF REQUIRED. CONDUIT SIZES INDICATE DEDICATED HOME RUNS BUT MAY BE COMBINED WITH OTHER LOCATIONS BY SYSTEM TYPE (VIDEO SURVEILLANCE, INTERCOM AND ACCESS CONTROL) AS LONG AS NEC MAXIMUM FILL REQUIREMENTS ARE MAINTAINED.
- FURNISH AND INSTALL CABLE SUPPORT, CABLE MANAGEMENT AND ASSOCIATED CEILING MOUNTING HARDWARE WHERE REQUIRED FOR CABLING INSTALLED BY SECURITY CONTRACTOR.
- ALL DOOR PREP TO INCLUDE CONDUIT, PULL STRINGS, PROTECTIVE BUSHINGS AND JUNCTION BOXES AS SHOWN ON THE "TY" DRAWINGS PRIOR TO THE SECURITY INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL READ, IN THEIR ENTIRETY, ALL SECTIONS OF THE ELECTRONIC SAFETY AND SECURITY SYSTEM DOCUMENTS AND APPLY THEM AS APPROPRIATE FOR WORK IN THIS SECTION. REFERENCE DIVISION 28 SPECIFICATIONS AND "TY" DRAWINGS
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS, COMPONENTS, TOOLS AND LABOR REQUIRED TO COMPLETE SECURITY CABLING PATHWAY. ELECTRICAL POWER DISTRIBUTION AND GROUNDING SYSTEM AS SET FORTH IN THE ELECTRONIC SAFETY AND SECURITY SYSTEM DOCUMENTS AND THE ELECTRICAL DOCUMENTS, SPECIFICATIONS AND DRAWINGS.

COMMUNICATIONS ROOMS

- RACK ELEVATIONS AND NETWORK EQUIPMENT ARE SHOWN FOR COORDINATION AND INFORMATIONAL PURPOSES ONLY.
- FURNISH AND INSTALL CABLE SUPPORT, CABLE MANAGEMENT AND ASSOCIATED HARDWARE WITHIN TELECOMMUNICATIONS ROOMS.

ELECTRICAL

- FOR SPECIFIC POWER AND RECEPTACLE REQUIREMENTS, REFERENCE ELECTRICAL DOCUMENTS AND VERIFY WITH SECURITY DOCUMENTS. REPORT ANY DISCREPANCIES TO THE GC PRIOR TO PURCHASE OR INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL INSTALL NORMAL AND GENERATOR BACK-UP POWER AS REQUIRED BY THE SECURITY SYSTEM AND COORDINATED BY THE SECURITY CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL PROVIDE 120V AC FOR ELECTRIC LOCK POWER SUPPLIES, SECURITY DEVICE POWER SUPPLIES AND CAMERA POWER SUPPLIES AS REQUIRED. SECURITY AND DOOR CONTRACTORS SHALL IDENTIFY LOCATIONS ON SUBMITTALS.

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.

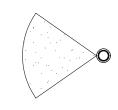
SECURITY DRAWINGS INDEX

SECURITY - INDEX (KITCHEN & DINING)

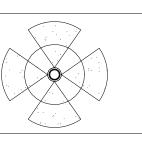
SECURITY - REFLECTED CEILING PLAN (KITCHEN & DINING)

SECURITY - DETAILS (KITCHEN & DINING)

SECURITY SYMBOL LEGEND



FIXED MEGAPIXEL DOME CAMERA



360 DEGREE PANORAMIC DOME CAMERA (VIDEO SURVEILLANCE)

ACCESS CONTROL SYSTEM ABOVE FINISHED FLOOR ACCESS CONTROL POWER SUPPLY AMERICAN WIRE GAUGE

CCTV **CLOSED CIRCUIT TELEVISION CFCI**

CH CHANNEL

CPS CAMERA POWER SUPPLY CPU **CENTRAL PROCESSING UNIT** CRT CATHODE RAY TUBE

DVR DIGITAL VIDEO RECORDER **ELECTRONIC LOCKSET**

ESS ELECTRONIC SAFETY & SECURITY FOOT CANDLE

FPS FRAMES PER SECONDS FSD FLAT SCREEN DISPLAY GC GENERAL CONTRACTOR

INTERNET PROTOCOL

INFRARED **JPEG** JOINT PHOTOGRAPHIC EXPERTS GROUP

MDF MAIN DISTRIBUTION FRAME MOTION PICTURE EXPERTS GROUP

PIR **PASSIVE INFRARED**

PIXELS PER FOOT PAN-TILT-ZOOM REX

REQUEST TO EXIT SOFTWARE MANAGEMENT SYSTEM

TERMINATION POINT TELECOM ROOM

UNINTERRUPTIBLE POWER SUPPLY UNSHIELDED TWISTED PAIR

VIDEO MANAGEMENT SOFTWARE

BE	<u> </u>
	_
2	ACCESS CONTROL SYSTE

CONTRACTOR FURNISHED CONTRACTOR INSTALLED

CON CONDUCTOR

DB **DECIBEL**

DATA GATHERING PANEL

FOV FIELD OF VIEW

IDF INTERMEDIATE DISTRIBUTION FRAME

LOCK POWER SUPPLY LPS

NATIONAL TELEVISION STANDARDS COMMITTEE NVR NETWORK VIDEO RECORDER

POE POWER OVER ETHERNET PP **PATCH PANEL**

TRADE SIZE SECURITY DISCIPLINE DESIGNATOR

WIDE DYNAMIC RANGE

NICKOLAS BARRERA REG. NO. 362685 EXPIRES 12-31-2026 · RCDD ·

Bicsi

TRE



Houston, TX 77067

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OWNER

DOOR...

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SECURITY - INDEX (KITCHEN & DINING)

FreanorHL NO. HE0569.2302.0

SECURITY RESPONSIBILITY MATRIX

SECURITY RESPONSIBILITY MATRIX

NETWORK CABLING TO IDF CONDUITS

CONDUITS

J-BOXES

POWER

CAMERAS

REX (PIR)

CABLING

COMPUTERS

ACCESS PANELS

SECURITY PANELS

CARD READERS

DOOR CONTACTS

REX (INTEGRATED)

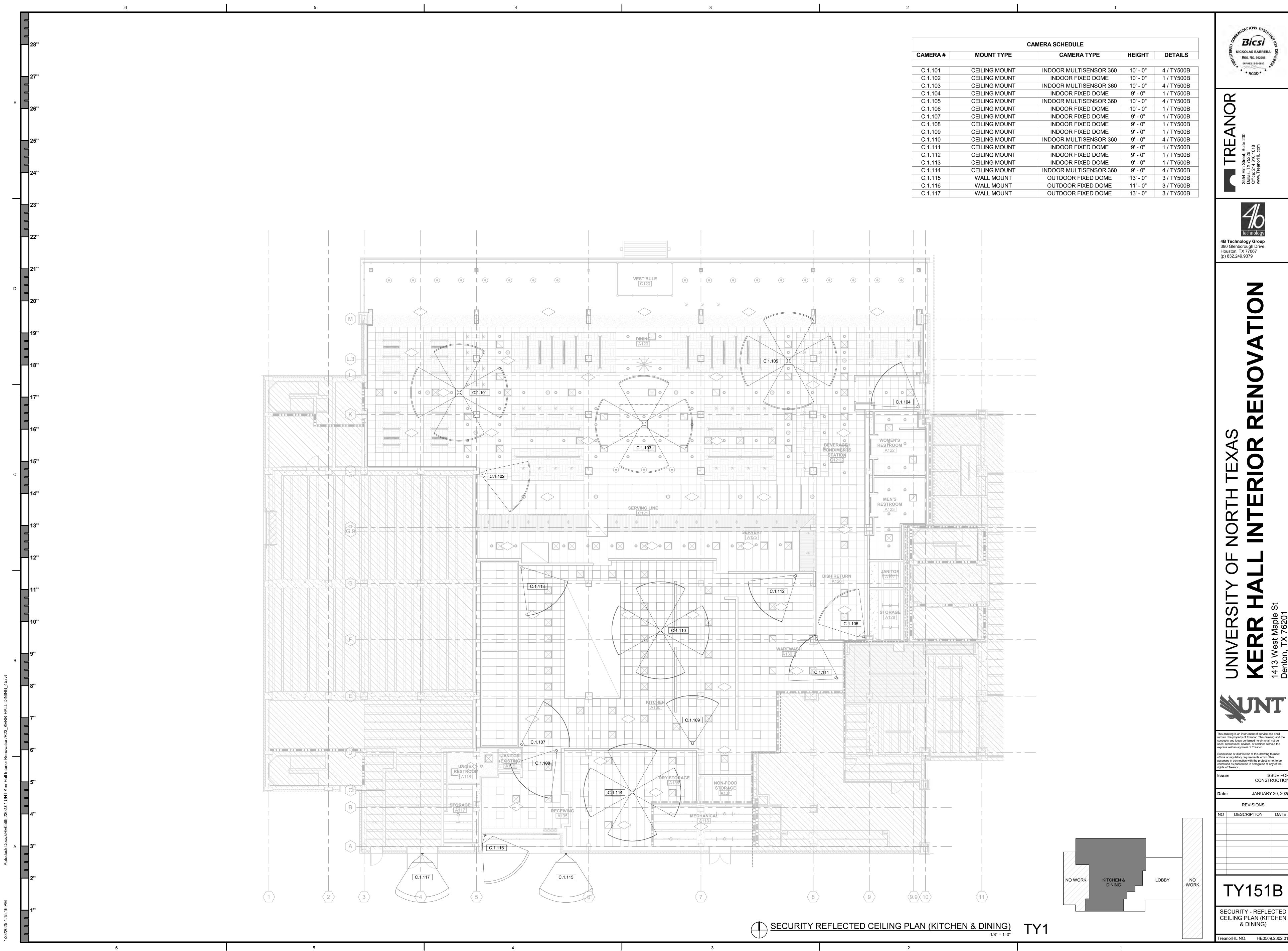
SECURITY CABLING (NON IP)

DOOR LOCKS AND HARDWARE

NETWORK VIDEO RECORDERS

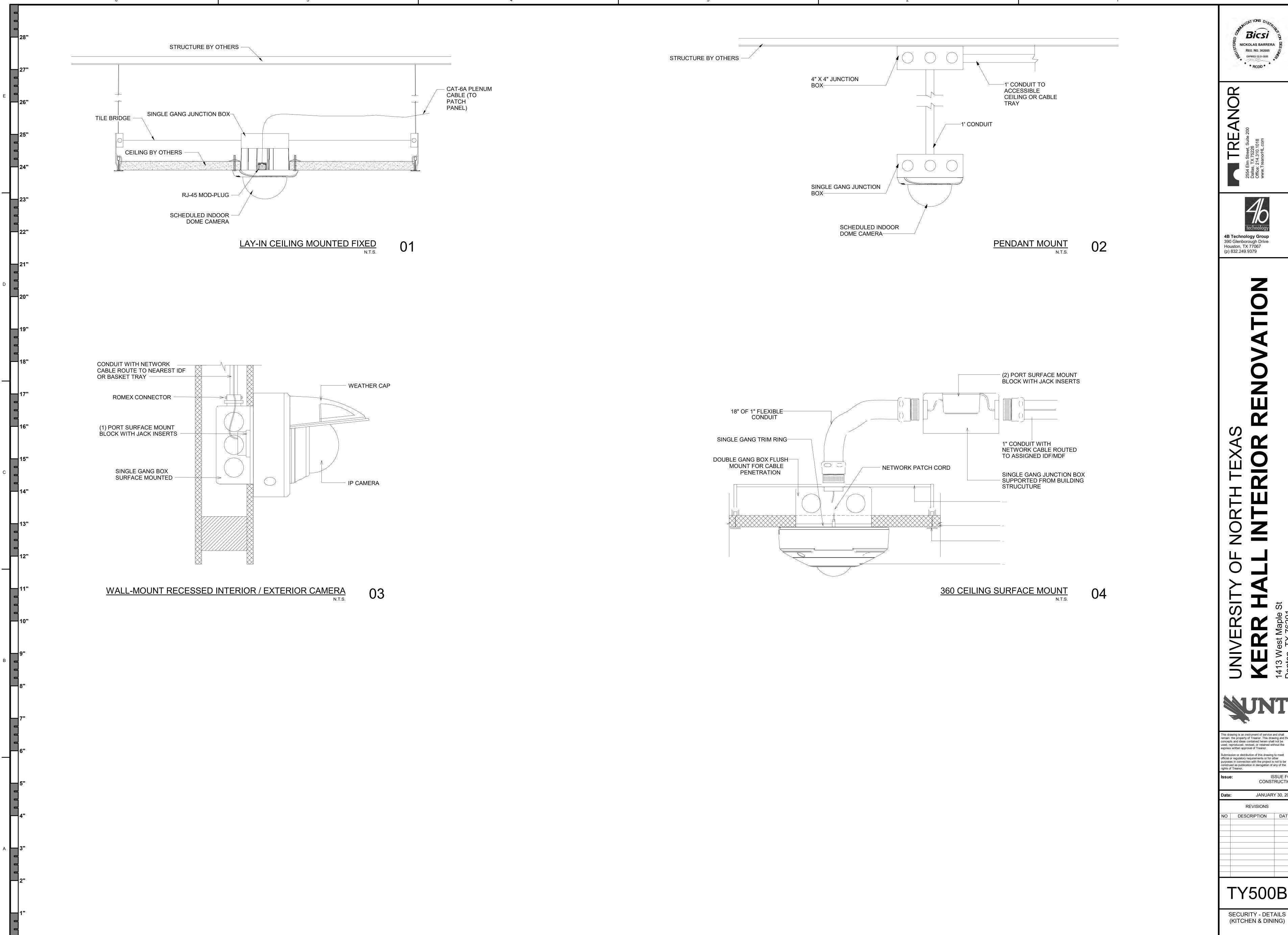
SECURITY SYSTEM LICENSES

LOW VOLTAGE POWER DISTRIBUTION PANELS AND





CONSTRUCTION



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