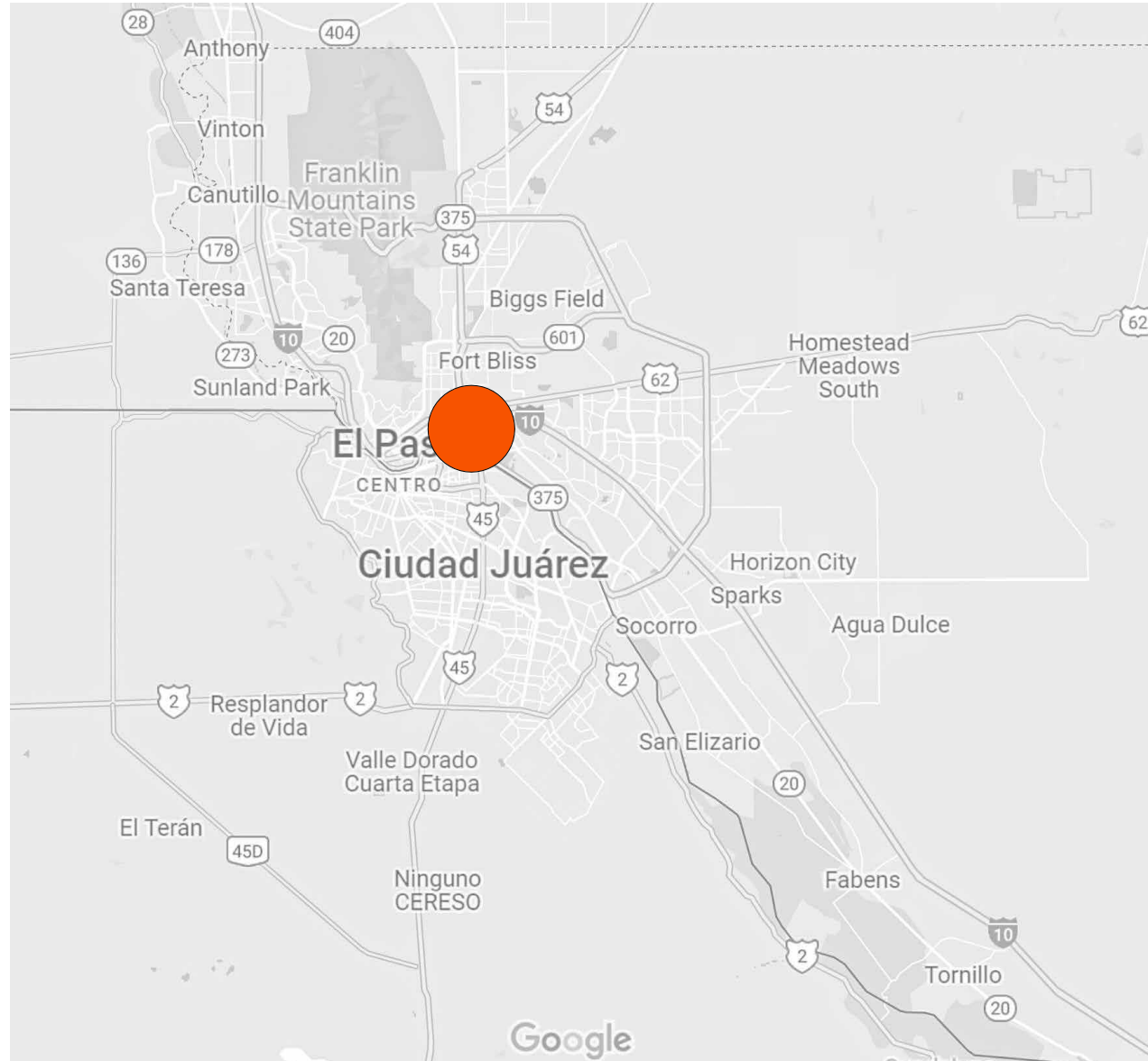


FLUOROSCOPY SUITE

4815 ALAMEDA AVE. | FIRST FLOOR | EL PASO, TX 79905



SITE LOCATION:



VICINITY MAP:



SCOPE OF WORK:

THIS PROJECT IS A LEVEL 1 ALTERATION, I.E., IT REPLACES SOME SELECT EXISTING MATERIALS (PRIMARILY FLOORING AND CEILING TILE), PRIOR TO THE INSTALLATION OF A NEW FLUOROSCOPY UNIT. THE MECHANICAL AND ELECTRICAL WORK IS AS NEEDED TO ACCOMMODATE NEW UNIT.

DESIGN TEAM:

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E104	PANEL SCHEDULES & RISER DIAGRAMS

REVISION SCHEDULE:

NO.	DATE	DESCRIPTION

ABBREVIATIONS

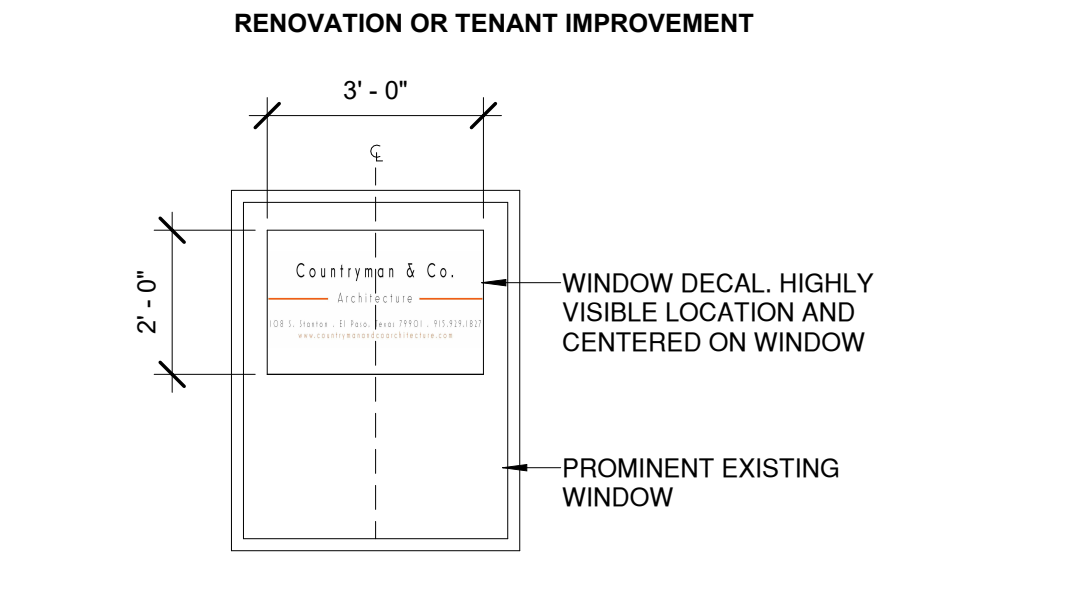
A LABEL	CLASS A DOOR	ECU	EVAPORATIVE COOLING UNIT	MAINT	MAINTENANCE	SIM	SIMILAR
A/C	AIR CONDITIONER	EF	EXTERIOR FINISH	MATL	MATERIAL	SKLT	SKYLIGHT
A/E	ARCHITECT / ENGINEER	EFS	EXTERIOR FINISH SYSTEM	MAX	MAXIMUM	SLD WDW	SLIDING WINDOW
AAP	ALARM ANNUNCIATOR PANEL	EGB	EXTERIOR GYPSUM BOARD	MBR	MASTER BEDROOM	SND	SANITARY NAPKIN DISPENSER
ABC	AGGREGATE BASE COURSE	EGSB	EXTERIOR GYPSUM SHEATHING BOARD	MC	MEDICINE CABINET	SP	STAND PIPE
ABC	ABOVE			MECH	MECHANICAL	SPEC	SPECIFICATIONS
AC	ASBESTOS CEMENT,	EH	ELECTRIC HEATER	MEB	MEDICAL	SPKLR	SPEAKER
ASPHALTIC	CONCRETE	EHD	ELECTRIC HAND DRYER	MEMB	MEMBRANE	SPKR	SPEAKER
		EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	MEZZ	MEZZANINE	SO	SQUARE
ACC	ACCESSIBLE			MFR	MANUFACTURER	SS	SERVICE SINK
ACP	ASPHALTIC CONCRETE	EL	ELEVATOR	MH	MANHOLE	STA	STATION
PAVING		ELECT	ELEVATION	MIN	MINIMUM, MINUTE	STC	SOUND TRANSMISSION CLASS
ACST	ACOUSTICAL	ELEV	ELEVATION	MIRR	MIRROR	STD	STANDARD
ACT	ACOUSTICAL CEILING TILE	EMER	EMERGENCY	MISC	MISCELLANEOUS	STO	STORAGE
AD	AREA DRAIN	EMS	ENERGY MANAGEMENT SYSTEM	ML	METAL LATH	STR	STAIRS
ADDL	ADDITIONAL	ENCL	ENCLOSURE	MLDG	MOULDING	STRUC	STRUCTURAL
ADDM	ADDENDUM	ENG	ENGINEER	MLWK	MILLWORK	SUH	SUSPENDED UNIT HEATER
ADH	ADHESIVE	ENTR	ENTRANCE	MO	MASONRY OPENING	SV	SHEET VINYL
ADJ	ADJACENT	EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)	MRB	MARBLE BASE	SWBD	SWITCH BOARD
AFF	ABOVE FINISH FLOOR			MS	MOP SINK	SYM	SYMBOL
AFG	ABOVE FINISH GRADE	EQ	EQUAL	MT	MOUNTED	SYS	SYSTEM
AGGR	AGGREGATE	EQUIP	EQUIPMENT	MTL	METAL		
AHU	AIR HANDLING UNIT	ERD	EXISTING ROOF DRAIN	MULL	MULLION	T	TREAD
ALT	ALTERNATE	EST	ESTIMATED	MVBL	MOVABLE	T&G	TONGUE AND GROOVE
ALUM	ALUMINUM	EVAP	EVAPORATIVE			T/S	TUB / SHOWER
ANOD	ANODIZE	EWC	ELECTRIC WATER COOLER	N	NORTH	TB	TOWEL BAR
ANT	ANTENNA	EWI	ELECTRIC WATER HEATER	NA	NOT APPLICABLE	TC	TERRACOTA
AP	ACCESS PANEL	EWS	EYE WASH STATION	NAT	NATURAL	TCA	TELEPHONE CONTROL PANEL
APPROX	APPROXIMATE	EXC	EXISTING	NIC	NOT IN CONTRACT	TD	TOWEL DISPENSER, TRENCH DRAIN
ARCH	ARCHITECT	EXIST	EXISTING	NO	NOMINAL	TEL	TELEPHONE
ASC	ABOVE SUSPENDED CEILING	EXP	EXPOSED	NOM	NOMINAL	TEMP	TEMPERATURE
ASPH	ASPHALT	EXT	EXTERIOR	NR	NOISE REDUCTION	CENTER	TERRAZZO
ASSY	ASSEMBLY			NRC	NOISE REDUCTION COEFFICIENT	TFA	TO FLOOR ABOVE
ATM	AUTOMATIC TELLER	FA	FIRE ALARM	NTS	NOT TO SCALE	TFB	TO FLOOR BELOW
MACHINE		FAAP	FIRE ALARM ANUNCIATOR PANEL			THD	THREAD
AUTO	AUTOMATIC	FACP	FIRE ALARM CONTROL PANEL	OA	OVERALL	THK	THICKNESS
AV	AUDIO VISUAL	FAS	FASCIA	OC	ON CENTER	THK	THICKNESS
AVE	AVENUE	FB	FIRE BLANKET	OD	OUTSIDE DIAMETER	THRES	THRESHOLD
		FCO	FLOOR CLEANOUT	OF	OWNER FURNISHED	THRU	THROUGH
B LABEL	CLASS B DOOR	OFD	FLOOR DRAIN	OFF	OFFLOW DRAIN	TK BD	TACK BOARD
BALC	BALCONY	FDC	FIRE DEPARTMENT CONNECTION	OH	OPPOSITE HAND	TMPO GL	TEMPERED GLASS
BB	BULLETIN BOARD	FE	FIRE EXTINGUISHER	OP	OPPOSITE	TN	TRUE NORTH
BD	BOARD	FEC	FIRE EXTINGUISHER CABINET	OPP	OPPOSITE	TOB	TOP OF BEAM
BDRY	BOUNDARY	FF	FINISH FLOOR	OSB	ORIENTED STRAND BOARD	TOC	TOP OF CURB
BEV	BEVEL	FFE	FINISH FLOOR ELEVATION			TOF	TOP OF FOOTING
BITU	BITUMINOUS	FH	FIRE HYDRANT	PA	PUBLIC ADDRESS	TOJ	TOP OF JOIST
BJT	BED JOINT	FHC	FIRE HOSE CABINET	PAR	PARALLEL	TOM	TOP OF MASONRY
BLDG	BUILDING	FIN	FINISH	PB	PULL BOX	TOP	TOP OF PARAPET
BLVD	BOULEVARD	FIXT	FIXTURE	PB	PULL BOX	TOPO	TOPOGRAPHY
BLW	BELOW	FLASH	FLASHING	PBD	PARTICLE BOARD	TOW	TOP OF WALL
BM	BENCH MARK	FLR	FLOOR	POF	POUNDS PER CUBIC FOOT	TPD	TOILET PAPER DISPENSER
BOT	BOTTOM	FLUOR	FLUORESCENT	PED	PEDestal	TPH	TOILET PAPER HOLDER
BR	BEDROOM	FP	FIREPROOFING	PERF	PERFORATED	TR	TOWEL RACK
BRG	BEARING	FR	FIRE RESISTANT	PREFAB	PREFABRICATED	TRANS	TRANSOM
BRZ	BRONZE	FAST	FASTENER	PER	PERIMETER	TS	TUBE STEEL
BTWN	BETWEEN	FT	FOOT	PFE	PORTABLE FIRE EXTINGUISHER	TS	TOWEL SHELF
BUR	BUILT-UP ROOFING	FTG	FOOTING	PTG	PRESSURE GAUGE	TSTAT	THERMOSTAT
		FURN	FURNACE	PLAM	PLASTIC LAMINATE	TV	TELEVISION
C	CELSIUS	FUT	FUTURE	PLYWD	PLYWOOD	TYP	TYPICAL
C LABEL	CLASS C DOOR			PNL	PANEL		
CAB	CABINET	G	NATURAL GAS	PR	PIPE RAIL	UC	UNDERCUT
CAD	COMPUTER AIDED DRAFTING	GA	GAUGE	PREFIN	PREFINISHED	UGND	UNDERGROUND
CATL	CATALOG	GALV	GALVANIZED	PRKG	PARKING	UH	UNIT HEATER
CATV	COMMUNITY ANTENNA	GB	GRAB BAR	PSF	POUNDS PER SQUARE FOOT	UL	UNDERWRITERS LABORATORIES
	TELEVISION	GC	GENERAL CONTRACTOR	PSI	POUNDS PER SQUARE INCH	UNFIN	UNFINISHED
CCTV	CLOSE CIRCUIT TELEVISION	GCO	GROUND CLEAN OUT	PT	PRESSURE TREATED	UNIV	UNIVERSAL
CEM	CEMENT	GL	GLASS	PTD	PAPER TOWEL DISPENSER	UNO	UNLESS NOTED OTHERWISE
CF	CONTRACTOR FURNISHED	GLU LAM	GLUED LAMINATED WOOD	PTIN	PARTITION	UTIL	UTILITY
CFE	CONTRACTOR FURNISHED EQUIPMENT	GLZ	GLAZING	PTR	PAPER TOWEL RECEPTACLE		
		GT	GREASE TRAP	PVG	PAVING	VAC	VACUUM
CFLG	COUNTERFLASHING	GYM	GYMNASIUM			VAN	VANITY
CG	CORNER GUARD	GYP	GYPSUM	QT	QUARRY TILE	VAP PRF	VAPOR PROOF
CH BD	CHALK BOARD			QTB	QUARRY TILE BASE	VAR	VARIES
CI	CAST IRON	HAZ	HAZARD	QTF	QUARRY TILE FLOOR	VB	VINYLBASE
CIR	CIRCLE	HB	HOSE BIB	QTY	QUANTITY	VCT	VINYL COMPOSITION TILE
CIRC	CIRCUMFERENCE	HC	HANDCAP, HOLLOW CORE			VEH	VEHICLE
CK	CAULK	HD	HAND DRYER, HEAD	R	RADIUS	VENT	VENTILATION
CL	CENTER LINE	HDBD	HARD BOARD	RB	RESILIENT BASE	VERT	VERTICAL
CLG	CEILING	HDK	HEADER	RH	ROBE HOOK	VEST	VESTIBULE
CLO	CLOSET	HDW	HARDWARE	RCP	REFLECTED CEILING PLAN	VID	VIDEO
CLRM	CLASSROOM	HM	HOLLOW METAL	RCTP	RECEPTION	VNR	VENEER
CM	CENTIMETERS	HORIZ	HORIZONTAL	RD	ROOF DRAIN	VOL	VOLUME
CMU	CONCRETE MASONRY UNIT	HS	HAND SINK	REBAR	REINFORCING STEEL BARS	VOLT	VOLTAGE
COL	COLUMN	HT	HEIGHT	REF	REFERENCE	VR	VAPOR RETARDER
COMB	COMBINATION	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	REFL	REFLECTED	VRFY	VERIFY
COMM	COMMUNICATION			REFR	REFRIGERATOR	VTR	VENT THROUGH ROOF
COMP	COMPONENT			REG	REGISTER	VWC	VINYL WALL COVERING
COMPT	COMPARTMENT	IO	INPUT / OUTPUT	REINF	REINFORCED		
CONC	CONCRETE	ID	INSIDE DIAMETER,	REM	REMOVABLE	W	WEST
CONSTR	CONSTRUCTION	IC	IMPACT INSULATION CLASS	REQD	REQUIRED	W/	WITH
CONT	CONTINUOUS	IIC	IMPACT INSULATION CLASS	RESIL	RESILIENT	W/O	WITHOUT
CONTR	CONTRACTOR	IN	INCH(ES)	REST	RESTROOM	W/W	WALL TO WALL
CORR	CORRIDOR	INCL	INCLUDE	REV	REVISION	WB	WOOD BASE
CPT	CARPET	INFO	INFORMATION	RFG	ROOFING	WBL	WOOD BLOCKING
CR	CONTROL ROOM	INSUL	INSULATION	RH	RIGHT HAND	WC	WATER CLOSET
CT	CERAMIC TILE	INT	INTERIOR	RHR	RIGHT HAND REVERSE	WCL	WALL CLEAN OUT
CTB	CERAMIC TILE BASE	INTERCOM	INTERCOMMUNICATIONS	RL	ROOF LEADER	WD	WOOD
CTR	CENTER	INV	INVERT	RM	ROOM	WDW	WINDOW
CU	CUBIC	JAN	JANITOR	RO	ROUGH OPENING	WFAB	WALL FABRIC
		JBOX	JUNCTION BOX	ROW	RIGHT OF WAY	WGL	WIRED GLASS
D	DRAIN	K	KILO, THOUSAND	RT	RIGHT	WH	WATER HEATER
D LABEL	CLASS D DOOR	KIT	KITCHEN	RTU	ROOF TOP UNIT	WHSE	WAREHOUSE
dB	DECIBEL	KO	KNOCK OUT	RV	ROOF VENT	WLD	WELDED
DBL	DOUBLE	KPL	KICK PLATE			WM	WATER METER
DEG	DEGREE			S	SOUTH	WP	WATER PROOFING
DEMO	DEMOLITION			SB	SPLASH BLOCK	WSCT	WAINSCOT
DEPT	DEPARTMENT			SC	SOLID CORE	WSL	WEATHER SEAL
DF	DRINKING FOUNTAIN	L	LITER	SCHED	SCHEDULE	WT	WEIGHT
DIA	DIAMETER	LAB	LABORATORY	SCHEM	SCHEMATIC	WU	WINDOW UNIT
DIAG	DIAGONAL	LADDER	LADDER	SCP	SCUPPER	WWF	WELDED WIRE FABRIC
DIM	DIMENSION	LAM	LAMINATED	SCR	SHOWER CURTAIN ROD	WWM	WELDED WIRE MESH
DISP	DISPENSER	LDR	LADDER	SCRN	SCREEN		
DIV	DIVISION	LH	LEFT HAND	SOWD	SOLID CORE WOOD DOOR	X BRACE	CROSS
DL	DEAD LOAD	LHR	LEFT HAND REVERSE	SD	SMOKE DETECTOR	XL	EXTRA LARGE
DMPF	DAMP PROOFING	LIB	LIBRARY	SECT	SECTION	XPS	EXTRUDED POLYSTYRENE BOARD
DN	DOWN	LL	LIVE LOAD	SF	SQUARE FOOT		
DR	DOOR	LNG	LIQUID NATURAL GAS	SH	SINGLE HUNG	YCO	YARD CLEANOUT
DS	DOWNSPOUT	LPT	LOW POINT	SHT	SHIRT	YD	YARD
		LVR	LOUVER	SHLVs	SHELVES	YH	YARD HYDRANT
DTL	DETAIL	LWC	LIGHT WEIGHT CONCRETE	SHR	SHOWER	YR	YEAR
DW	DISHWASHER			SHT	SHEET		
DWG(S)	DRAWING(S)	M	METER	SHTHG	SHEATHING		
EAST		MACH	MACHINE				
E LABEL	CLASS E DOOR						
EA	EACH						

GENERAL NOTES

- PRE-CONSTRUCTION**
1. CONTRACTOR SHALL SCHEDULE AND CONDUCT A PRE-DEMOLITION MEETING WITH THE OWNER AND THE ARCHITECT PRIOR TO PROCEEDING WITH DEMOLITION IN EACH AREA.
 2. CONTRACTOR SHALL BE PREPARED FOR AND PARTICIPATE IN WEEKLY OWNER / ARCHITECT / CONTRACTOR MEETING IF REQUESTED.
 3. CONTRACTOR SHALL RECORD MEETING MINUTES AND DISTRIBUTE TO ALL ATTENDEES WITHIN THREE WORKING DAYS. TOPICS TO INCLUDE, BUT NOT LIMITED TO SCHEDULE, PHASING, VERIFICATION OF EXISTING UTILITIES AND POWER OUTAGES.
 4. IT IS HIGHLY RECOMMENDED THAT THE CONTRACTOR VISITS THE SITE PRIOR TO BID TO FAMILIARIZE THEM SELVES TO ALL EXISTING CONDITIONS.
 5. ALL QUESTIONS AND CLARIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO SUBMITTAL OF BIDS.

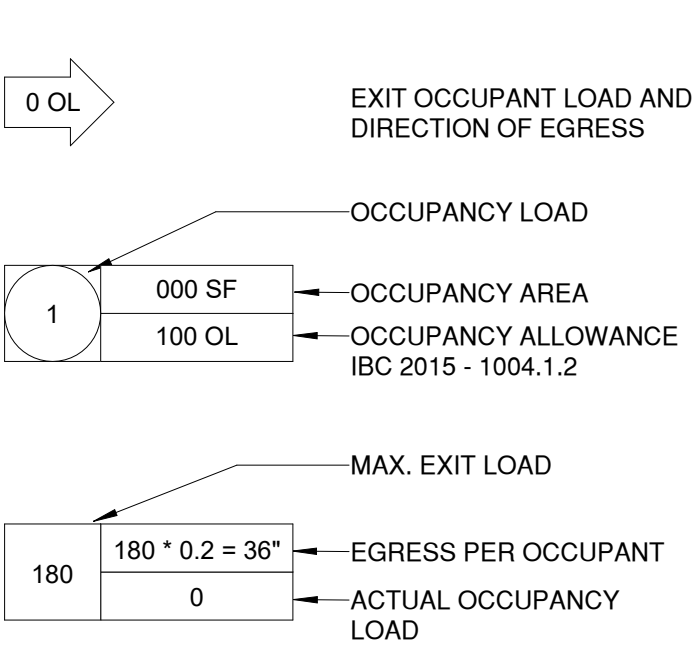
- DRAWINGS**
1. VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH WORK, ANY CONFLICT AND / OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
 2. WHERE DIMENSIONAL OR DETAIL DISCREPANCIES EXIST BETWEEN THE PLANS AND SECTIONS AND DETAILS, THESE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH WORK.
 3. ALL ELECTRICAL AND MECHANICAL FIXTURES EXPOSED TO VIEW SHALL BE LOCATED AS INDICATED ON THE ARCHITECTURAL DRAWINGS. IN CASE OF CONFLICT, VERIFY WITH THE ARCHITECT BEFORE PROCEEDING WITH WORK.
 4. FOR INTERIOR WALL ASSEMBLIES REFER TO PARTITION TYPES ON DRAWINGS.
 5. FOR ASSEMBLY LOCATION REFER TO FLOOR PLANS. FOR CEILING ASSEMBLIES REFER TO RCP DETAILS. REFER TO REFLECTED CEILING PLAN FOR ASSEMBLY LOCATIONS.
 6. WHERE REQUIRED, FURR-OUT PARTITIONS TO ACCOMMODATE PIPING AND CONDUITS LARGER OR DEEPER THAN THE PARTITIONS THICKNESS INDICATED, FURRING AROUND PIPE / CONDUIT OR FURRING OUT OF ENTIRE PARTITION TO BE DETERMINED BY THE ARCHITECT TO BE ACCEPTABLE.
 7. ALL GYPSUM BOARD WALL SHALL BE 5/8 F.C. OR TYPE "X" FIRE RATED.

- PROJECT SIGN**
1. PROJECT SIGN SHALL BE PROVIDED AND INSTALLED PRIOR TO BEGINNING WORK.
 2. RENOVATIONS AND TENANT IMPROVEMENTS:
 3. NEW CONSTRUCTION:
 4. PROJECT SIGN GRAPHICS SHALL BE AS ILLUSTRATED BELOW.

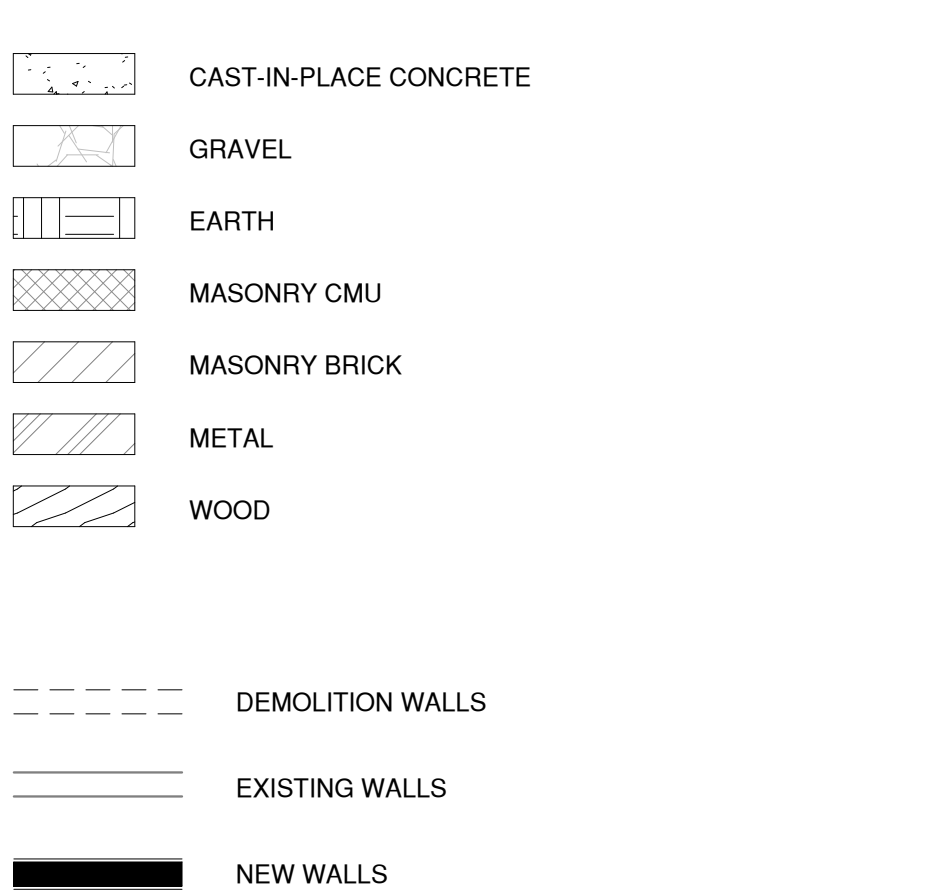


PROJECT SIGN - WINDOW DECAL

SYMBOLS



LEGEND



Countryman & Co.
Architecture

108 SOUTH STANTON . THIRD FLOOR . EL PASO, TEXAS 79901 915.929.1827



UNIVERSITY
MEDICAL CENTER
OF EL PASO

DRAWN BY: PJ
PROJECT NO: 2023-18
ISSUED: SEPTEMBER 22, 2023

REVISION SCHEDULE:

NO.	DATE	DESCRIPTION

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UNIVERSITY MEDICAL CENTER

FLUOROSCOPY SUITE

4815 ALAMEDA AVE. | FIRST FLOOR | EL PASO, TX 79905

SHEET TITLE:

ABBREVIATIONS & GENERAL NOTES

PERMIT SET

G001

9.26.2023



ACCESSIBILITY STANDARDS

ACCESSIBLE ROUTE

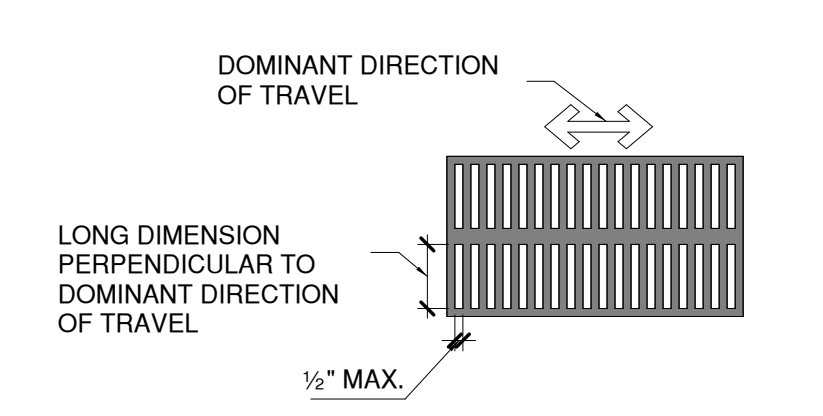


FIGURE 302.3 - ELONGATED OPENINGS IN FLOOR OR GROUND SURFACES

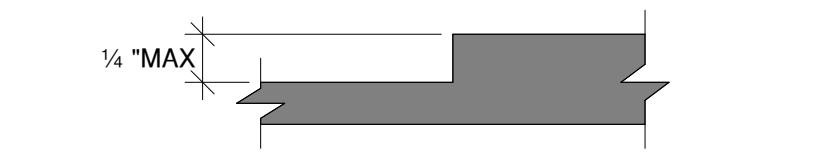


FIGURE 303.2 - VERTICAL CHANGE IN LEVEL

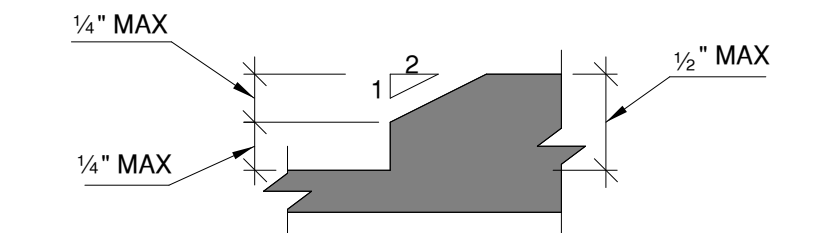


FIGURE 303.3 - BEVELED CHANGE IN LEVEL

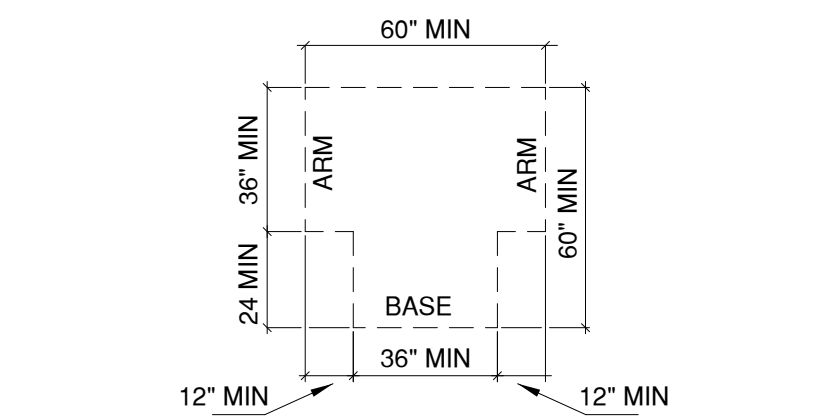


FIGURE 304.3.2 - T-SHAPED TURNING SPACE

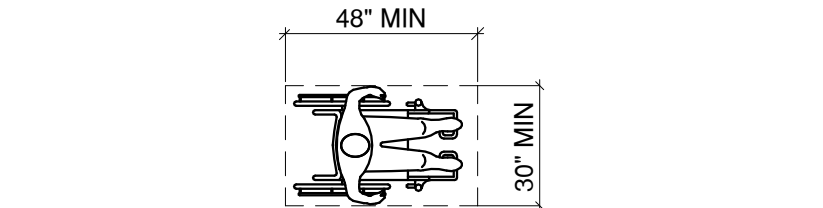


FIGURE 305.3 - CLEAR FLOOR OR GROUND SPACE

REACH CLEARANCES

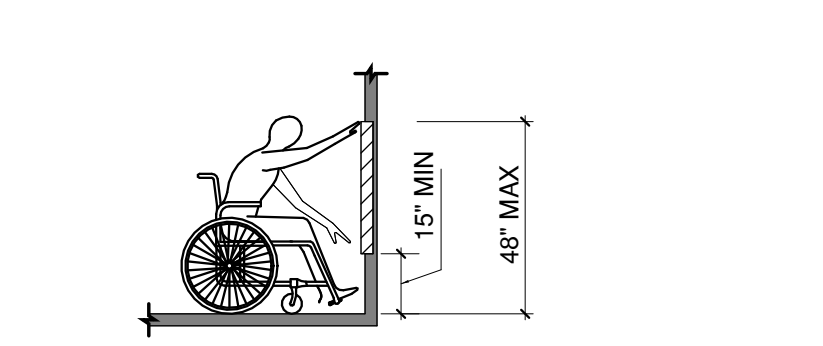


FIGURE 308.2.1 - UNOBSTRUCTED FORWARD REACH

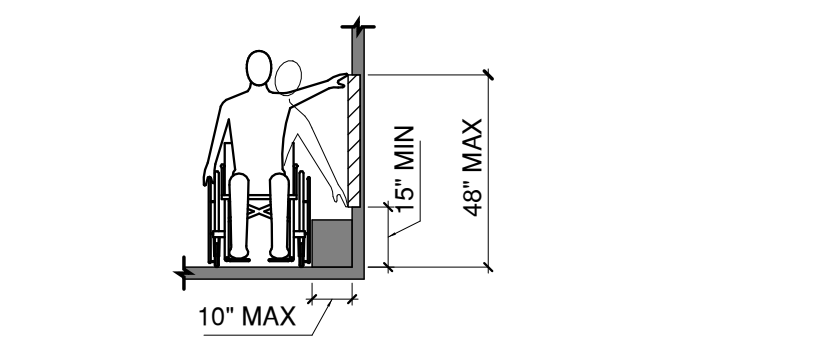


FIGURE 308.3.1 - UNOBSTRUCTED SIDE REACH

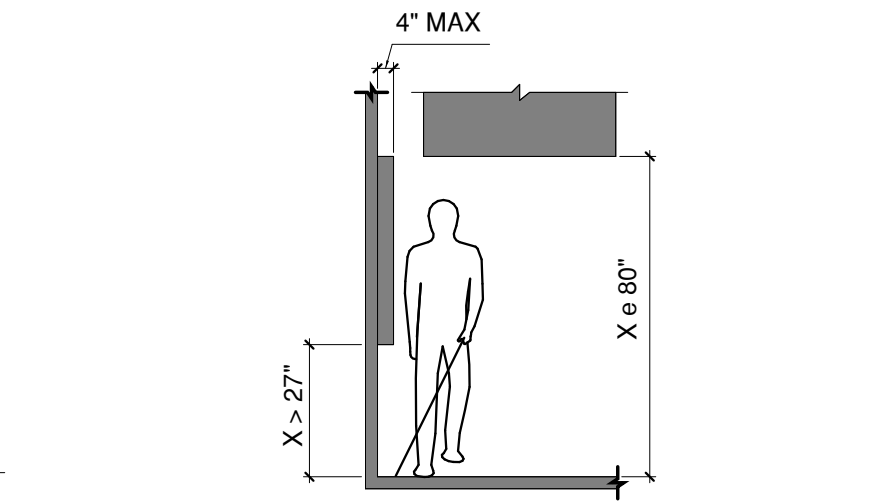


FIGURE 307.2 - LIMITS OF PROTRUDING OBJECTS

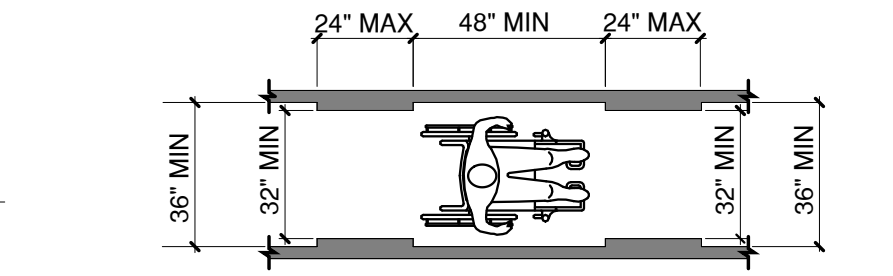


FIGURE 403.5.1 - CLEAR WIDTH OF AN ACCESSIBLE ROUTE

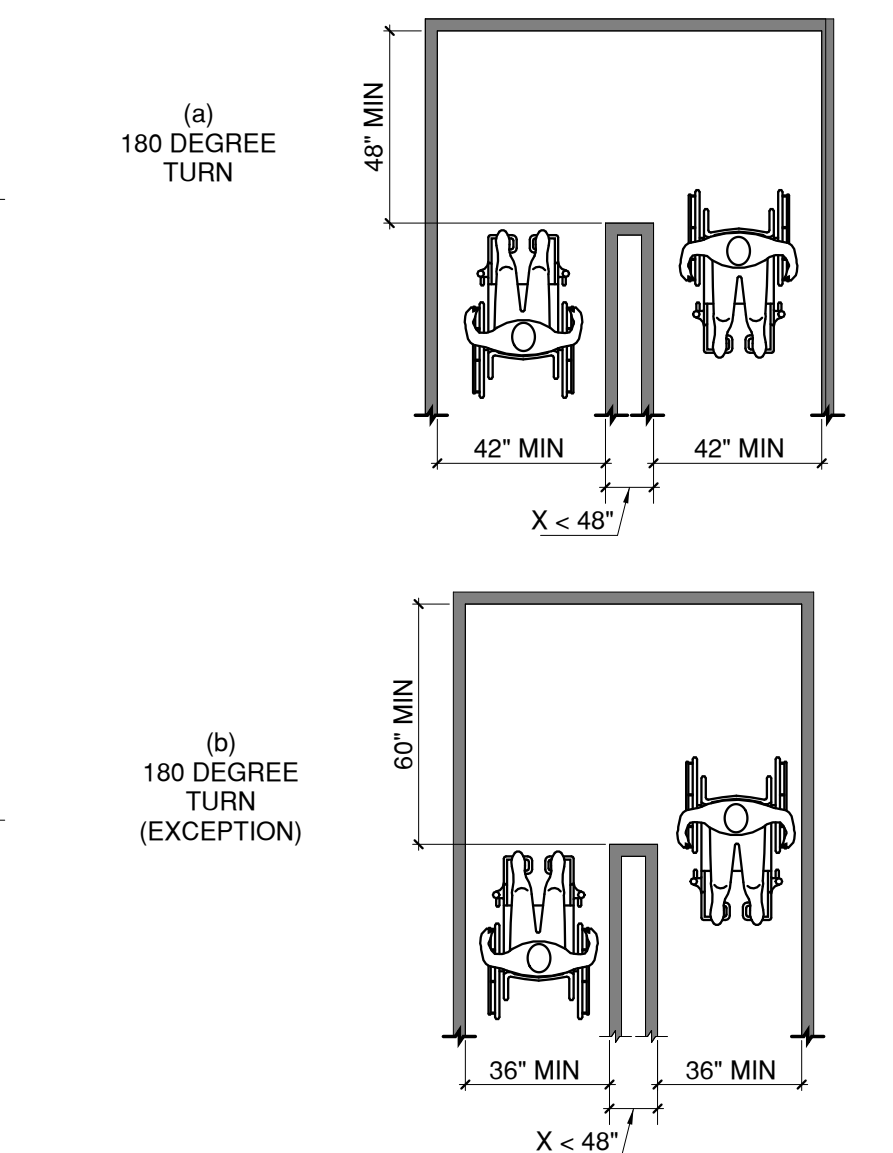


FIGURE 403.5.2 - CLEAR WIDTH AT TURN

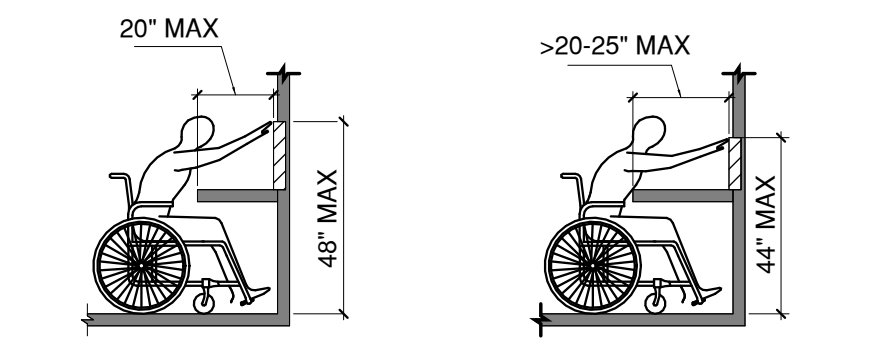


FIGURE 308.2.2 - OBSTRUCTED HIGH FORWARD REACH

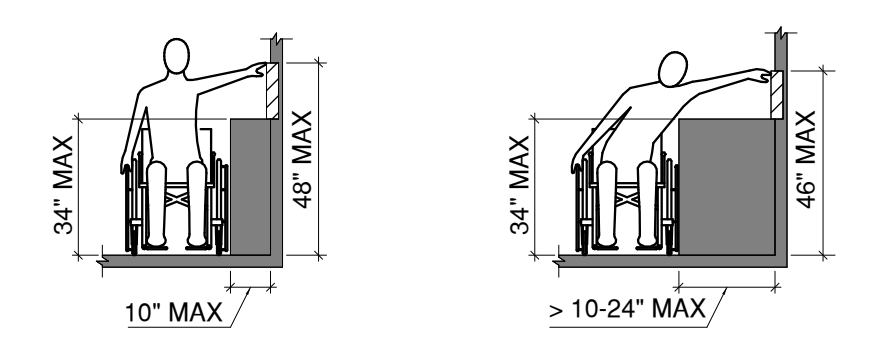


FIGURE 308.3.2 - OBSTRUCTED HIGH SIDE REACH

DOOR CLEARANCES

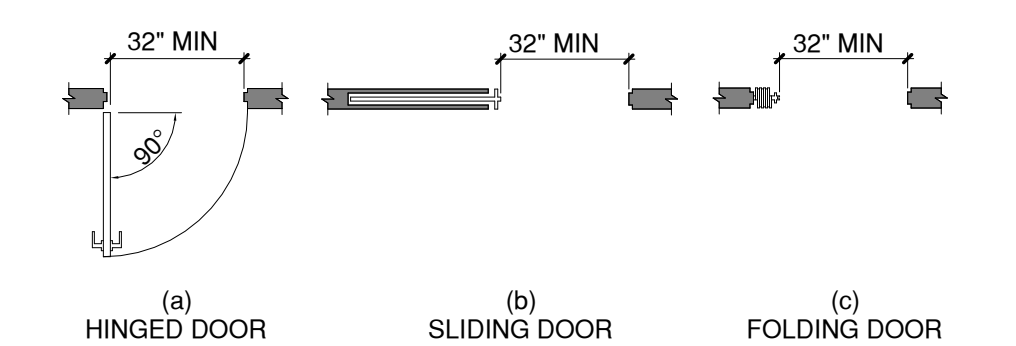
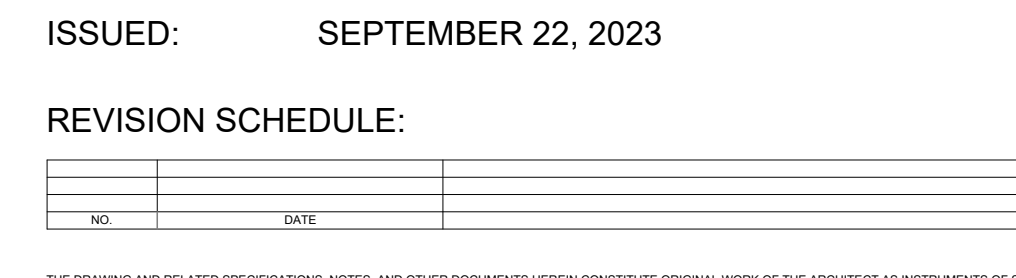
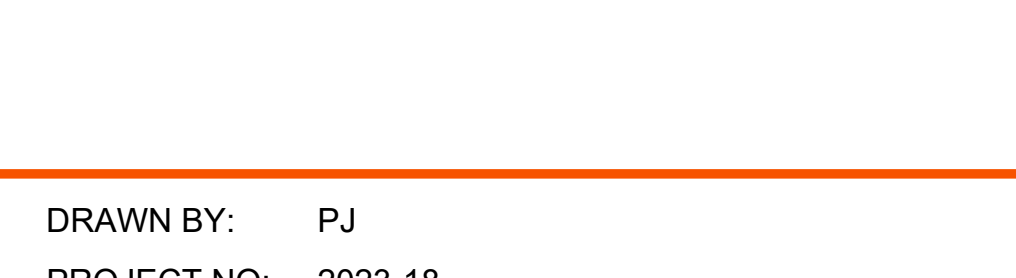
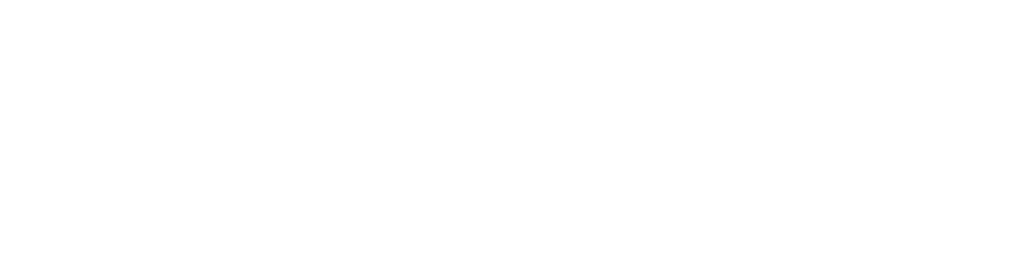
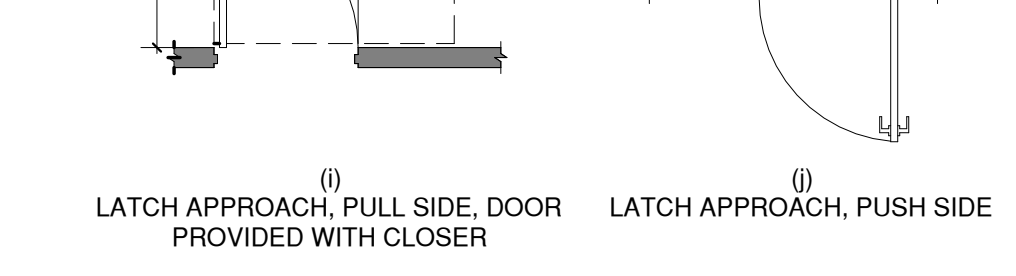
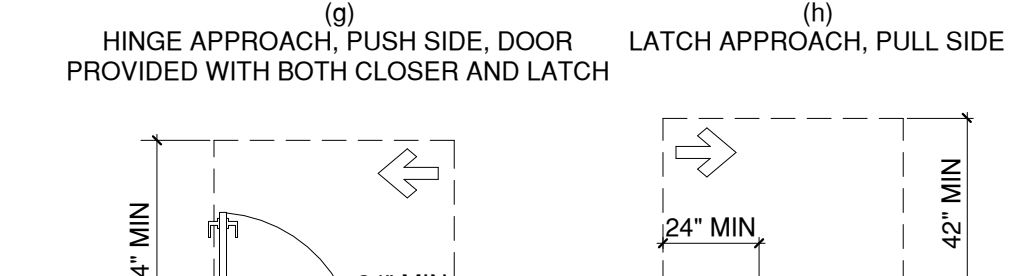
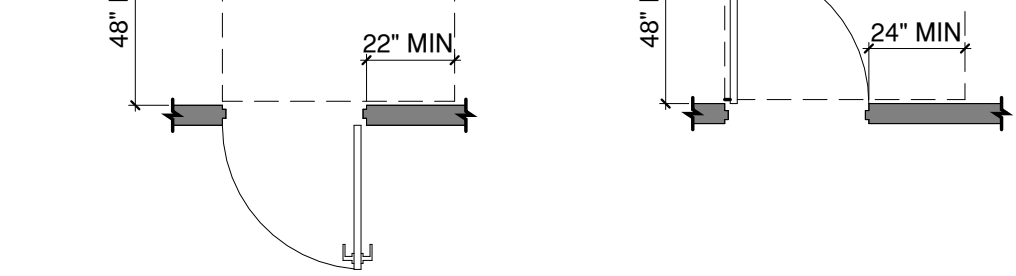
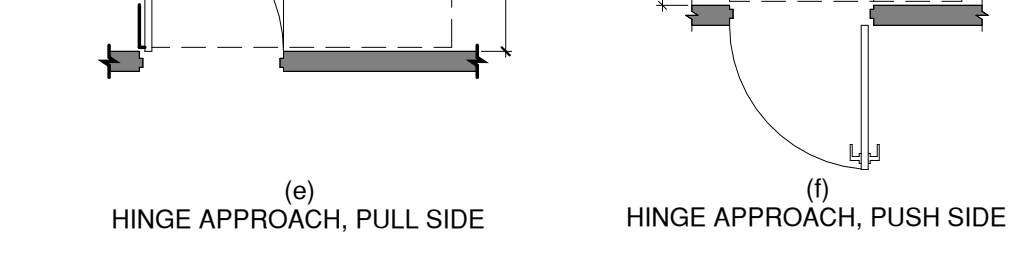
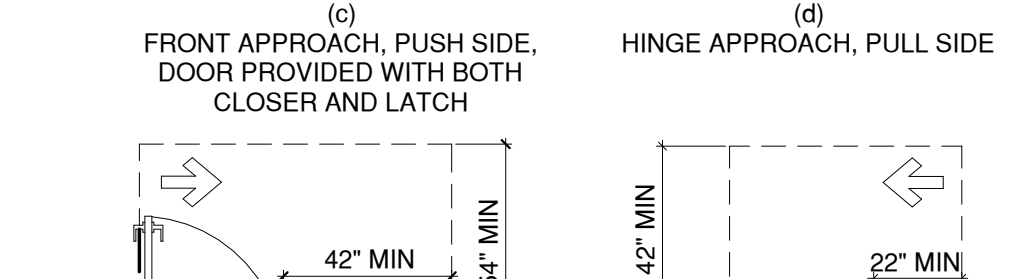
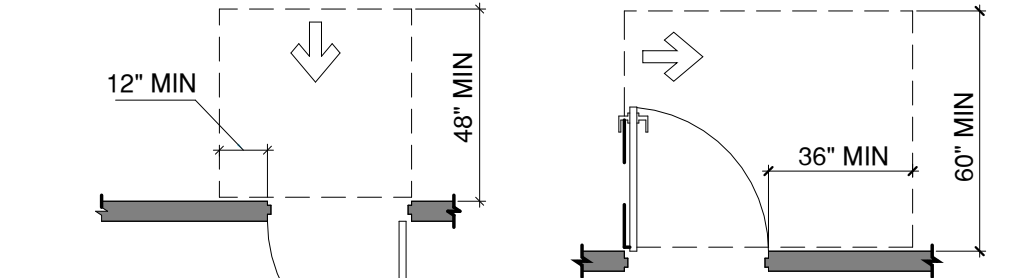
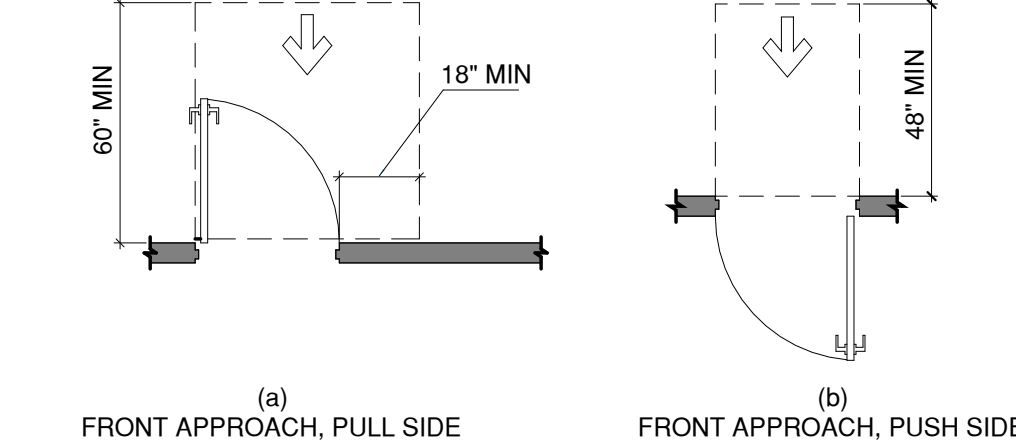


FIGURE 404.2.3 - CLEAR WIDTH OF DOORWAYS

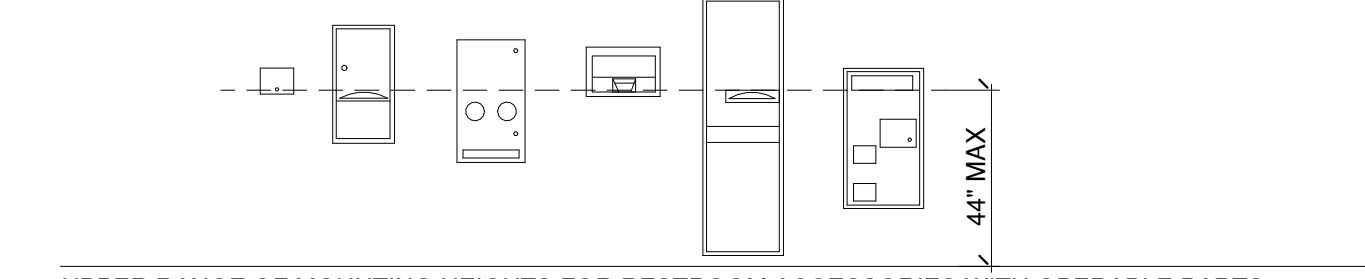


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RESTROOMS

ACCESSORIES

NOTE: NO OBJECT, ACCESSORY, OR OTHER ARCHITECTURAL OR PERMANENTLY INSTALLED FIXTURE MAY PROTRUDE MORE THAN 4" FROM THE FACE OF THE WALL



UPPER RANGE OF MOUNTING HEIGHTS FOR RESTROOM ACCESSORIES WITH OPERABLE PARTS

CLEARANCES

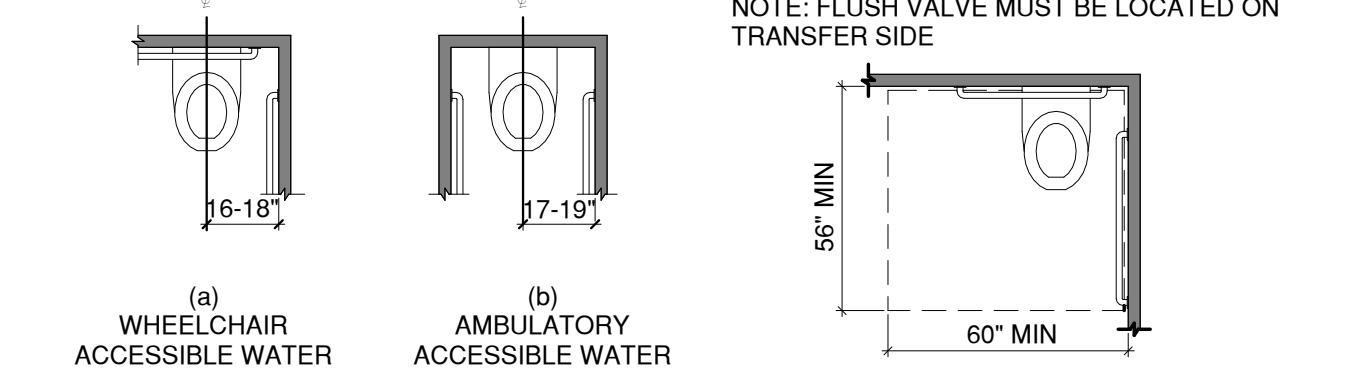


FIGURE 604.2 - WATER CLOSET LOCATION

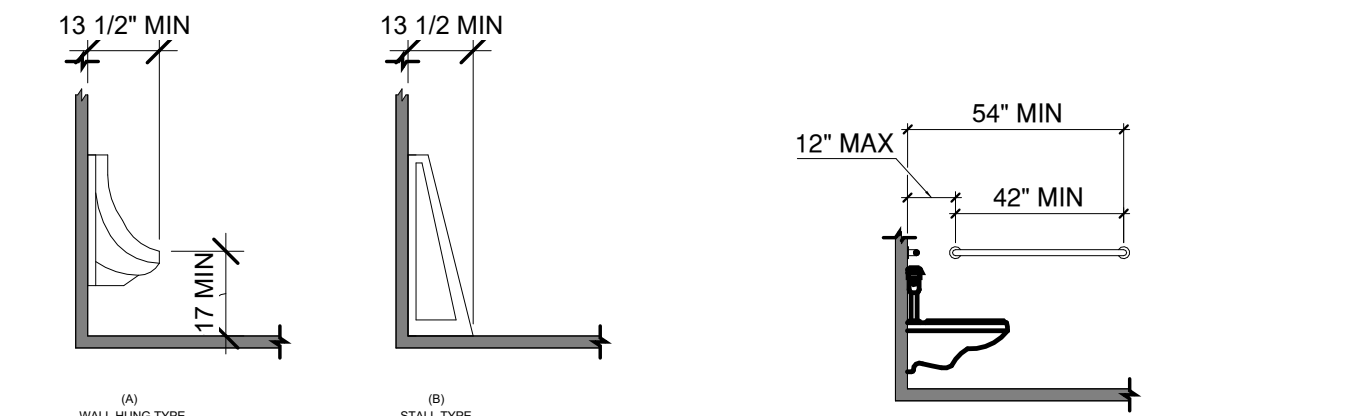


FIGURE 605 - HEIGHT AND DEPTH OF URINALS



NOTE: FLUSH VALVE MUST BE LOCATED ON TRANSFER SIDE

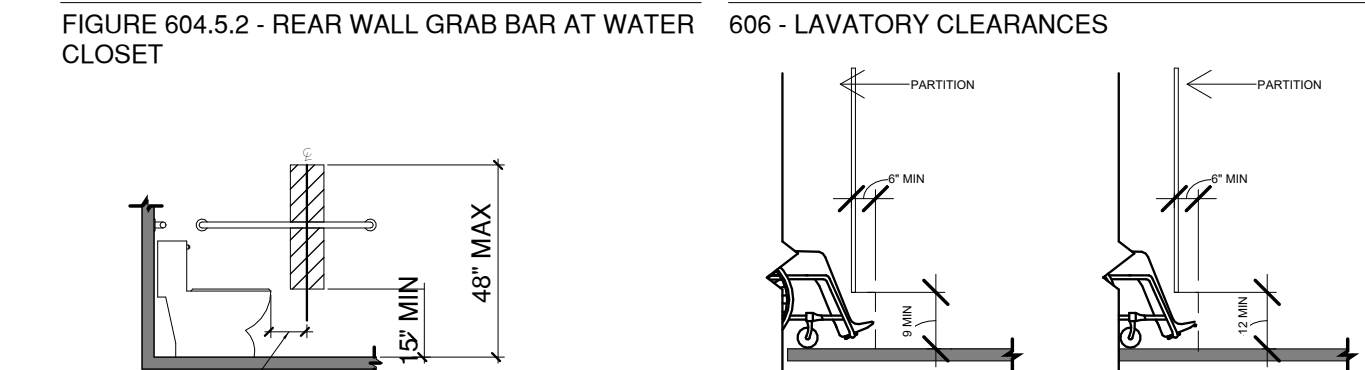
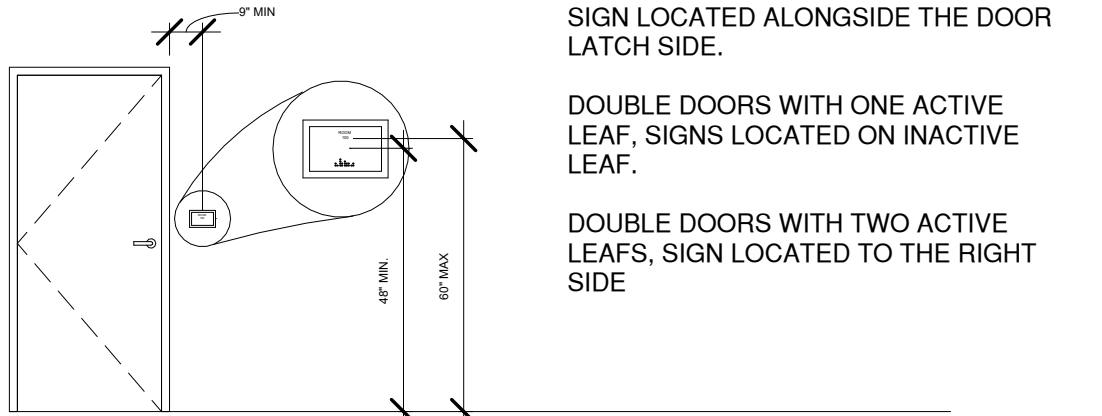


FIGURE 604.7 - DISPENSER OUTLET LOCATION

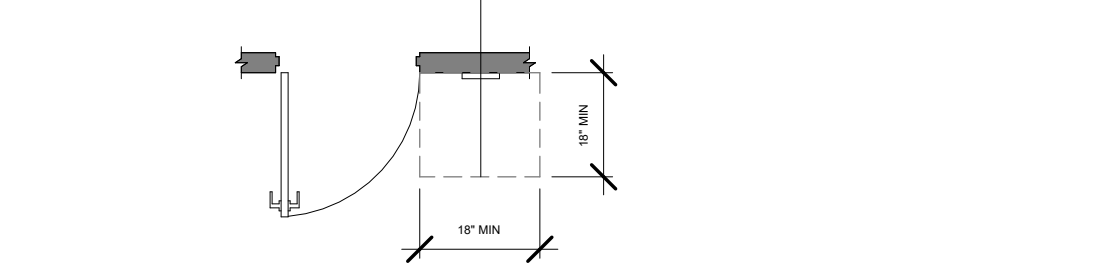


SIGNAGE



TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF LOWEST TACTILE CHARACTER AND 60 INCHES MAXIMUM MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.

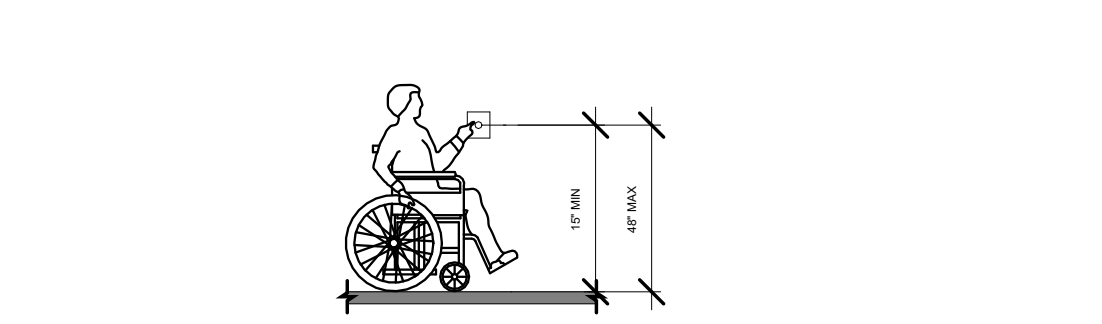
FIGURE 703 - HEIGHT OF TACTILE CHARACTERS ABOVE FINISH FLOOR OR GROUND



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

FIGURE 703.4.2 LOCATION OF TACTILE SIGNS AT DOORS

CALL BUTTONS - PUSH TO EXIT BUTTON



407.2.1 CALL CONTROLS. WHERE CALL BUTTONS OR KEYPADS ARE PROVIDED, THEY SHALL COMPLY WITH 407.2.1 AND 309.4. CALL BUTTONS SHALL BE RAISED OR FLUSH.

407.2.1.1 HEIGHT. CALL BUTTONS AND KEYPADS SHALL BE LOCATED WITHIN ONE OF THE REAH RANGES SPECIFIED IN 308, MEASURED TO THE CENTERLINE OF THE HIGHEST OPERABLE PART.

407.2.1.2 SIZE. CALL BUTTONS SHALL BE 3/4 INCH MINIMUM IN THE SMALLEST DIMENSION.

407.2.1.3 CLEAR FLOOR OR GROUND SPACE. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 SHALL BE PROVIDED AT CALL CONTROLS.

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DRAWN BY: PJ
PROJECT NO: 2023-18
ISSUED: SEPTEMBER 22, 2023

REVISION SCHEDULE:

NO.	DATE	DESCRIPTION

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FLUOROSCOPY SUITE
4815 ALAMEDA AVE. | FIRST FLOOR | EL PASO, TX 79905
SHEET TITLE:
ACCESSIBILITY STANDARDS

PERMIT SET

G002

9.26.2023



BUILDING CODE ANALYSIS

CODE ORDINANCES: INTERNATIONAL BUILDING CODE (IBC), 2015
INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2015
INTERNATIONAL FIRE CODE (IFC), 2015
INTERNATIONAL MECHANICAL CODE (IMC), 2015
INTERNATIONAL PLUMBING CODE (IPC), 2015
NATIONAL ELECTRIC CODE (NEC), 2015
TEXAS ACCESSIBILITY STANDARDS (TAS), 2012



BUSINESS
OCCUPANCY

EPCH - Level 1

Project number	ET LS-01	A-601
Revision Date	03/03/2021	
Drawn by	Pedro Onsurez	
Checked by	Roberto Valadez	
		Scale 1" = 30'-0"

12/14/2018 11:58:51 AM

01 EXISTING LIFE SAFETY PLAN

1" = 30'-0"

COUNTRYMAN & CO.
— Architecture —

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SHEET TITLE:

BUILDING CODE ANALYSIS



9.26.2023

PERMIT SET

G003



SCOPE OF WORK

ROOM	APPROX. SF
FLUOROSCOPY SUITE & STORAGE ROOM	430 SF
NOT IN CONTRACT	173,000 SF ON FIRST FLOOR

01 PROJECT LOCATION PLAN - UNIVERSITY MEDICAL CENTER OF EL PASO - 1ST FLOOR

1" = 30'-0"

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Architecture

108 SOUTH STANTON, THIRD FLOOR, EL PASO, TEXAS 79901 915.929.1827



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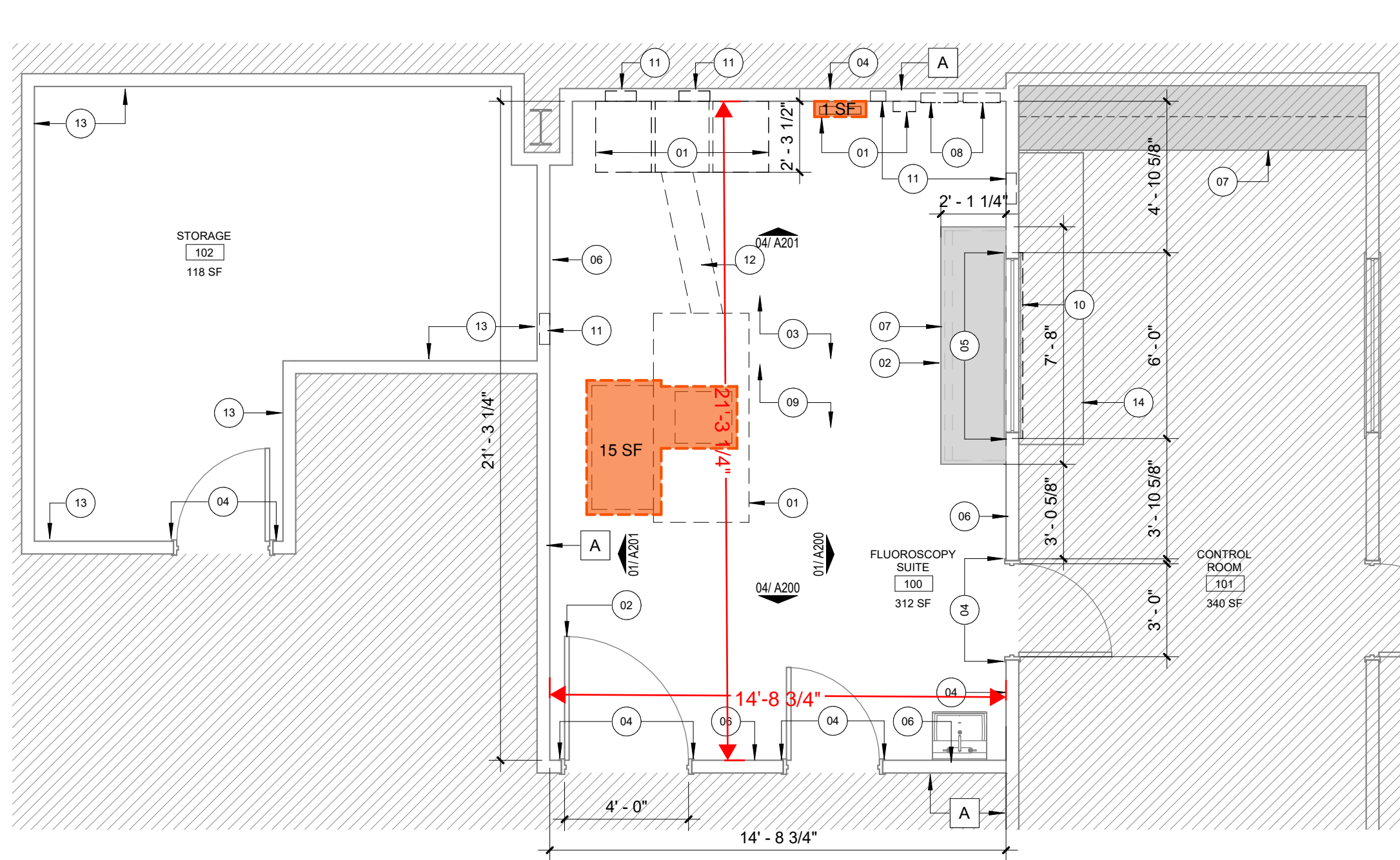
SHEET TITLE:
PROJECT LOCATION PLAN

PERMIT SET

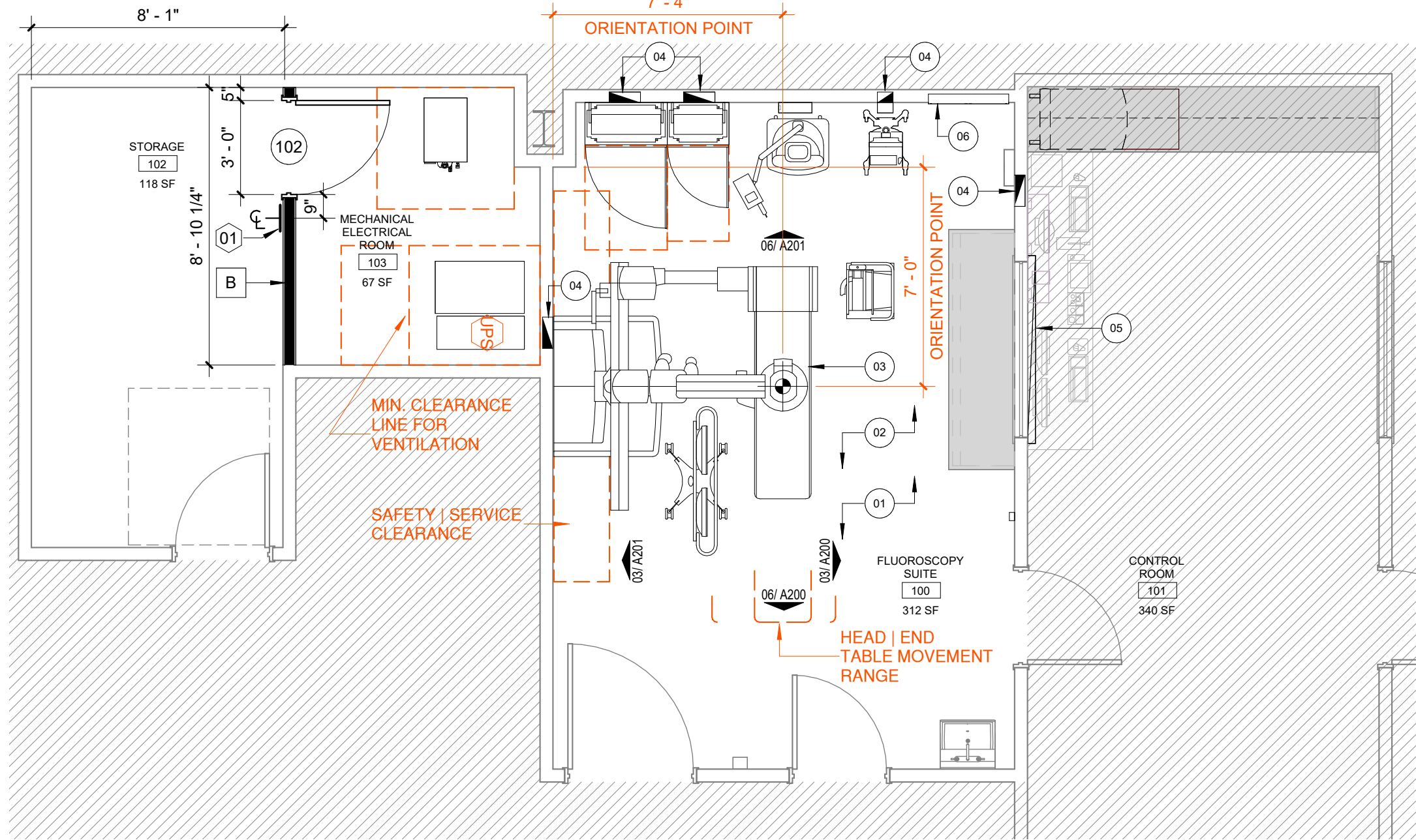
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01 DEMOLITION FLOOR PLAN
1/4" = 1'-0"

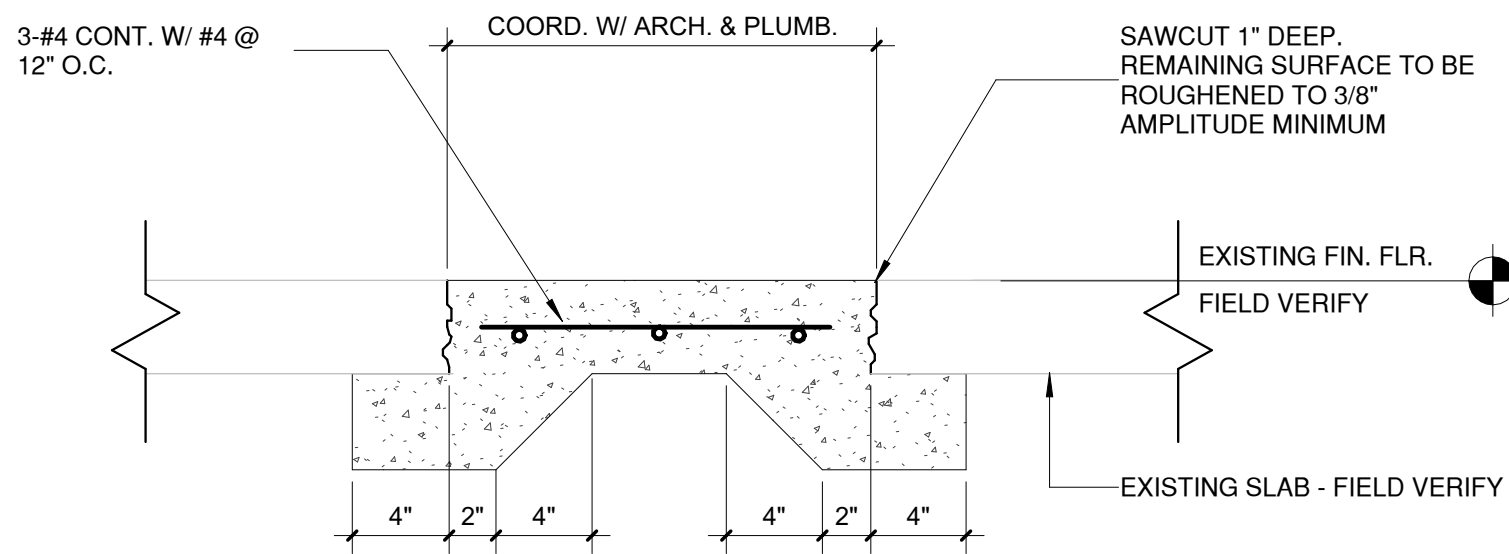


02 PROPOSED EQUIPMENT PLAN
1/4" = 1'-0"

INFORMATION TAKEN FROM MEDICAL EQUIPMENT DRAWINGS PROVIDED FOR REFERENCE ONLY. REFER DIRECTLY TO MEDICAL EQUIPMENT DRAWINGS FOR EXACT INFORMATION.

NO.	ITEM DESCRIPTION
01.	CAREFULLY REMOVE EXISTING FLUOROSCOPY UNIT WITH ALL STRUCTURAL SUPPORTS, CONTROL BOXES | CABINETS, CEILING RAILS, AND MISCELLANEOUS ITEMS SHALL BE REMOVED BY OWNER.
02.	PROTECT ALL EXISTING TO REMAIN OBJECTS | FIXTURES TO MINIMIZE NEW WORK DAMAGE. E.G., 4' - 0" DOOR, SINK, MILLWORK, ETC.
03.	EXISTING FLOORING TO REMAIN. PATCH AS NEEDED.
04.	APPROX. AREA TO PATCH AFTER REMOVING EQUIPMENT.
05.	EXISTING LEAD LINED DOOR AND HARDWARE TO REMAIN.
06.	EXISTING LEAD LINED WINDOW TO REMAIN.
07.	DOCUMENT LOCATIONS AND HEIGHTS OF WALL-MOUNTED ACCESSORIES. REMOVE IN PREPARATION OF PAINTING. SAVE CAREFULLY FOR RE-INSTALLATION.
08.	EXISTING MILLWORK TO REMAIN.
09.	REPLACE ELECTRICAL PANELS. REFER TO ELECTRICAL DRAWINGS.
10.	EXISTING WALL BASE TO REMAIN.
11.	DEMOLITION OF EXISTING HORIZONTAL ELECTRICAL CHASE.
12.	DEMOLITION AS NEEDED FOR FLOOR TO CEILING VERTICAL ELECTRICAL CHASES ACCESSIBLE FROM INSIDE THE FLUOROSCOPY SUITE. REFER TO ELECTRICAL AND MEDICAL EQUIPMENT DRAWINGS FOR EXTENT AND EXACT LOCATIONS OF NEW WORK.
13.	REFER TO ELECTRICAL AND MEDICAL EQUIPMENT DRAWINGS FOR EXTENT AND EXACT LOCATIONS OF SLAB DEMOLITION AND NEW WORK.
14.	REMOVE EXISTING WALL BASE AT STORAGE. PREPARE FOR NEW WORK AND REFER TO FINISH SCHEDULE.
15.	EXISTING SYSTEMS FURNITURE TO REMAIN.

GENERAL NOTES	
RE-INSTALL ALL WALL-MOUNTED FIXTURES AND SIGNS.	
NO.	ITEM DESCRIPTION
01.	PREPARE SLAB FOR NEW EQUIPMENT INSTALLATION AS PER MANUFACTURER'S INSTRUCTIONS.
02.	CONTRACTOR TO CONTACT ARCHITECT UPON REMOVAL OF EXISTING FLUOROSCOPY UNIT AND DEMOLITION STRUCTURAL SUPPORTS FOR A FIELD OBSERVATION BEFORE COMMENCING NEW WORK.
03.	PREPARE FOR NEW FLOORING AT PATCHING LOCATIONS. REFER TO FLOOR FINISH PLAN.
04.	NEW VERTICAL ELECTRICAL CHASE ACCESSED FROM INSIDE FLUOROSCOPY UNIT.
05.	NEW HORIZONTAL ELECTRICAL CHASE, SURFACE MOUNTED. REFER TO ELECTRICAL.
06.	NEW ELECTRICAL PANEL. REFER TO ELECTRICAL.



03 TYPICAL TRENCH AT EXISITNG SLAB
1 1/2" = 1'-0"

DOOR SCHEDULE

MARK	TYPE	SIZE			DOOR MATERIAL	DOOR GLASS	FRAME MATERIAL	FRAME			HDW. SET	FIRE RATING	DOOR REMARKS
		W	H	THK				HEAD	JAMB	THRES.			
102	A	3' - 0"	7' - 0"	1 3/4"	HM	-	HM	03/A101	03/A101	-	SET NO.1	45 MIN	1, 2

DOOR REMARKS

GENERAL NOTES:

A. ALL DOORS NOTED ON "DOOR SCHEDULE" SHALL HAVE LEVER HANDLES AND ALL HARDWARE TO MEET ADA REQUIREMENTS, UNLESS OTHERWISE SCHEDULED.

HARDWARE SET

SET NO.1

PROVIDE:
A. DOOR CLOSER PER SPECIFICATIONS.
B. CYLINDRICAL LOCKSET TO MATCH EXISTING.
C. BEST INTERCHANGEABLE | COMPATIBLE CORE AS PER SPECIFICATIONS.
D. KEYING AS PER SPECIFICATIONS.
E. WALL MOUNTED DOOR STOP AS PER SPECIFICATIONS.
F. HINGES AS PER SPECIFICATIONS.

REMARKS KEY NOTES:

1. PAINT HOLLOW METAL DOOR AND FRAME. COLOR AS PER FINISH SCHEDULE

2. SEE SPECIFICATIONS FOR HARDWARE NOTES.

ABBREVIATION / MATERIAL LEGEND

HM

SC

GL

RB

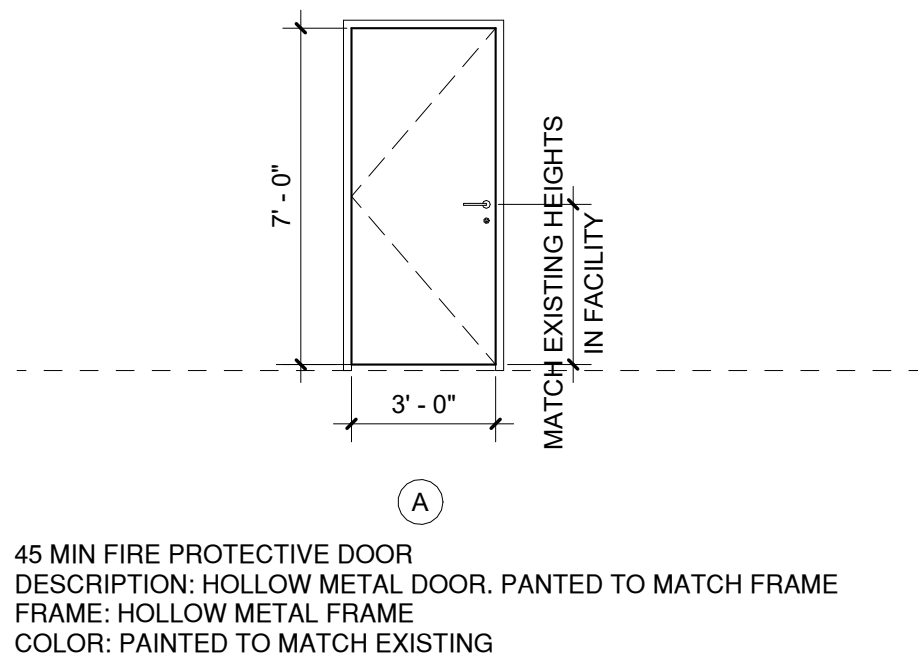
HOLLOW METAL

SOLID CORE, WOOD

CLEAR GLAZE

OIL RUBBED BRONZED

DOOR TYPE



DOOR AND FRAME LABELING REQUIREMENTS:

716.5.7 Labeled protective assemblies. *Fire door assemblies* shall be labeled by an *approved agency*. The *labels* shall comply with NFPA 80, and shall be permanently affixed to the door or frame.

716.5.7.1 Fire door labeling requirements. *Fire doors* shall be labeled showing the name of the manufacturer or other identification readily traceable back to the manufacturer, the name or trademark of the third-party inspection agency, the *fire protection rating* and, where required for *fire doors* in interior exit stairways and ramps and exit passageways by Section 716.5.5, the maximum transmitted temperature end point. Smoke and draft control doors complying with UL 1784 shall be labeled as such and shall comply with Section 716.5.7.3. Labels shall be approved and permanently affixed. The label shall be applied at the factory or location where fabrication and assembly are performed.

716.5.7.4 Fire door frame labeling requirements. *Fire door frames* shall be labeled showing the names of the manufacturer and the third-party inspection agency.

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Architecture

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PROJECT NO: 2023-18
ISSUED: SEPTEMBER 22, 2023

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SHEET TITLE:

DEMOLITION & PROPOSED FLOOR PLAN & DOOR INFO.

PERMIT SET

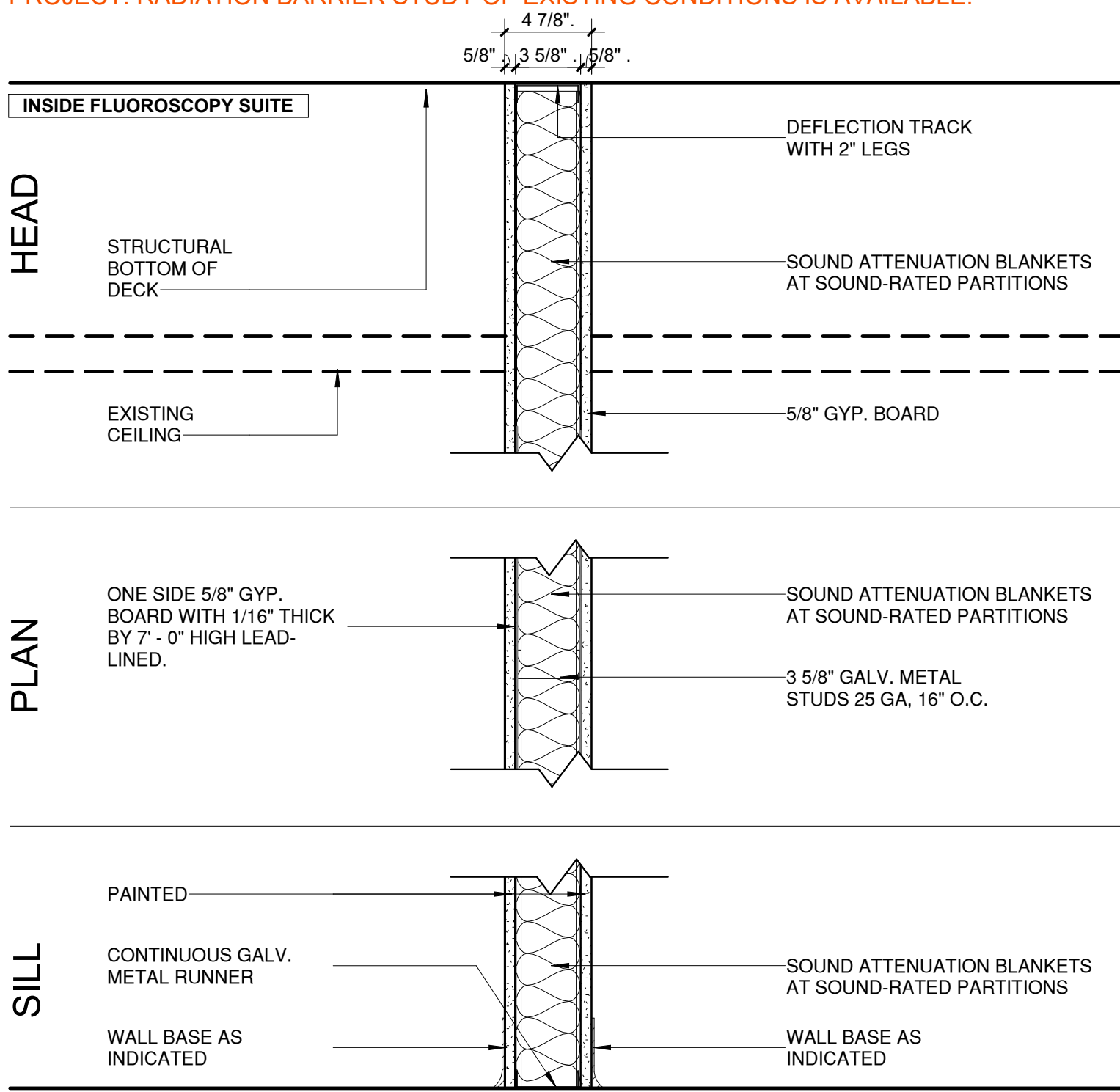
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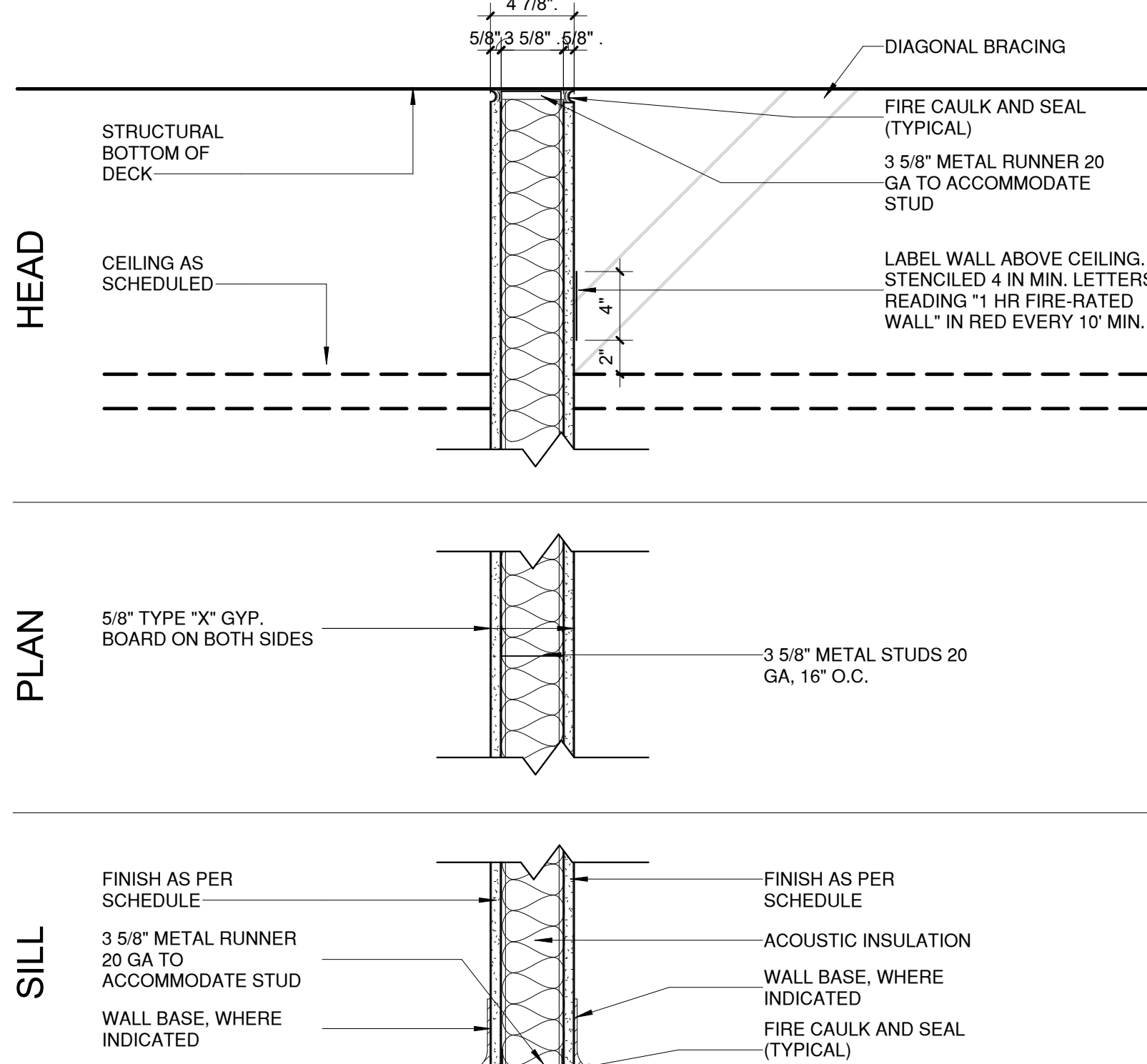
A PRESUMED EXISTING INTERIOR PARTITION WITH LEAD-LINING

NO CHANGES TO THE EXISTING WALL ASSEMBLIES SHALL BE MADE AS A PART OF THIS PROJECT. RADIATION BARRIER STUDY OF EXISTING CONDITIONS IS AVAILABLE.



NOTE: EXISTING GYPSUM WALL SHALL BE PATCHED AND REPAIRED AS NEEDED. LEAD SHIELDING PATCHING MUST OVERLAP SHIELDING BY 1/2". LEAD BATTEN 1" WIDE MAY BE USED IN PLACE OF AN OVERLAP. ATTACH WITH MANUFACTURER'S ADHESIVE, OR PROVIDE SHIELDING AROUND THE HEADS OF NAILS, SCREWS AND OTHER POTENTIAL INTERRUPTIONS TO THE COLD-FLOW OF THE LEAD. FINISH WALL TO MATCH EXISTING TEXTURE, PRIME, AND PAINT WITH NOT LESS THAN 3 COATS OF PAINT. REFER TO FINISH PLANS.

B NEW INTERIOR PARTITION - PROVIDE BACKING AT GRAB BARS AND ALL OTHER WALL MOUNTED ARCHITECTURAL ITEM AND EQUIPMENT- 1 HR FIRE- RATED - UL U419

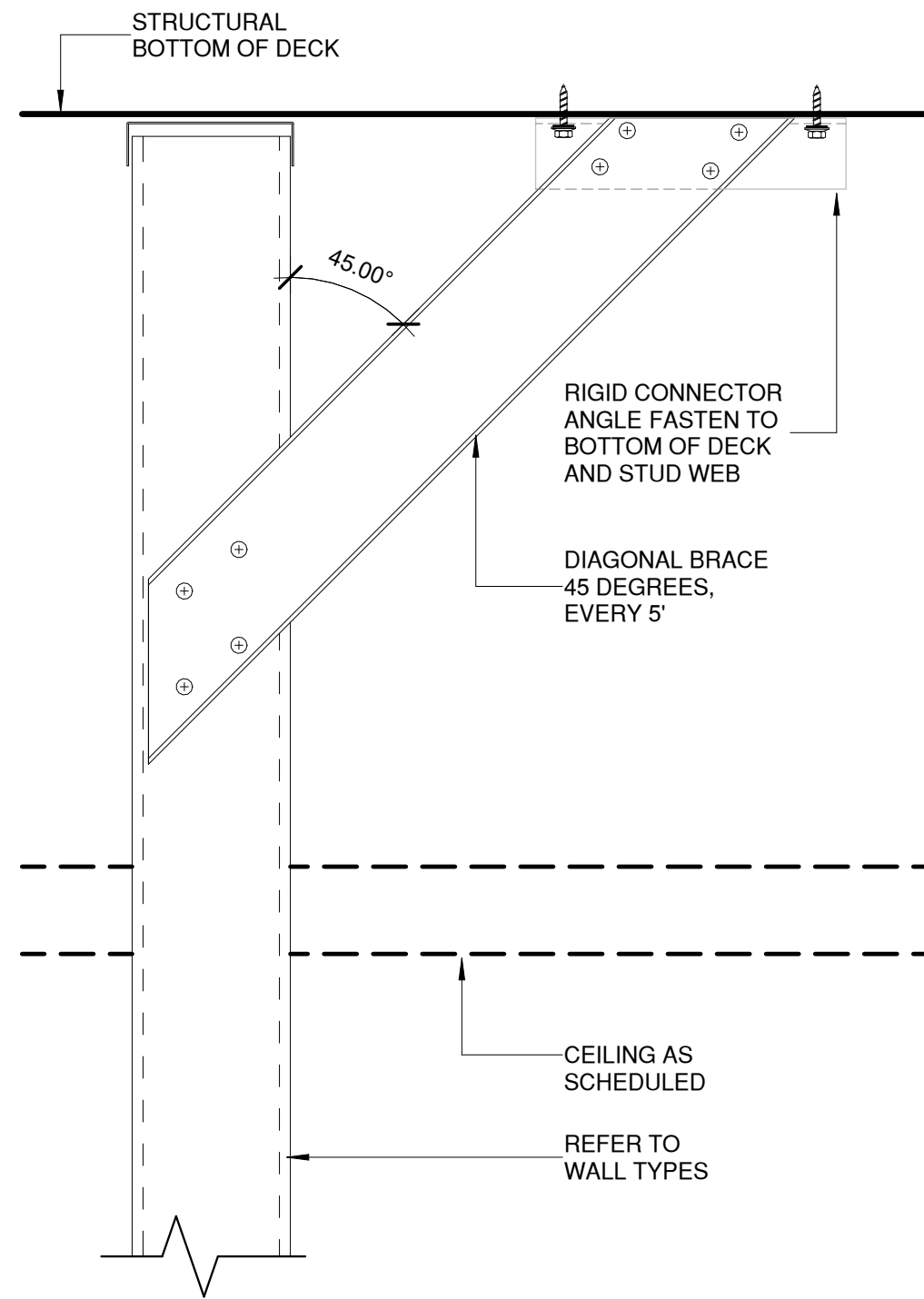


NOTE: ALL EXPOSED GYPSUM BOARD WALLS TO BE FINISHED TO MATCH EXISTING FINISH.

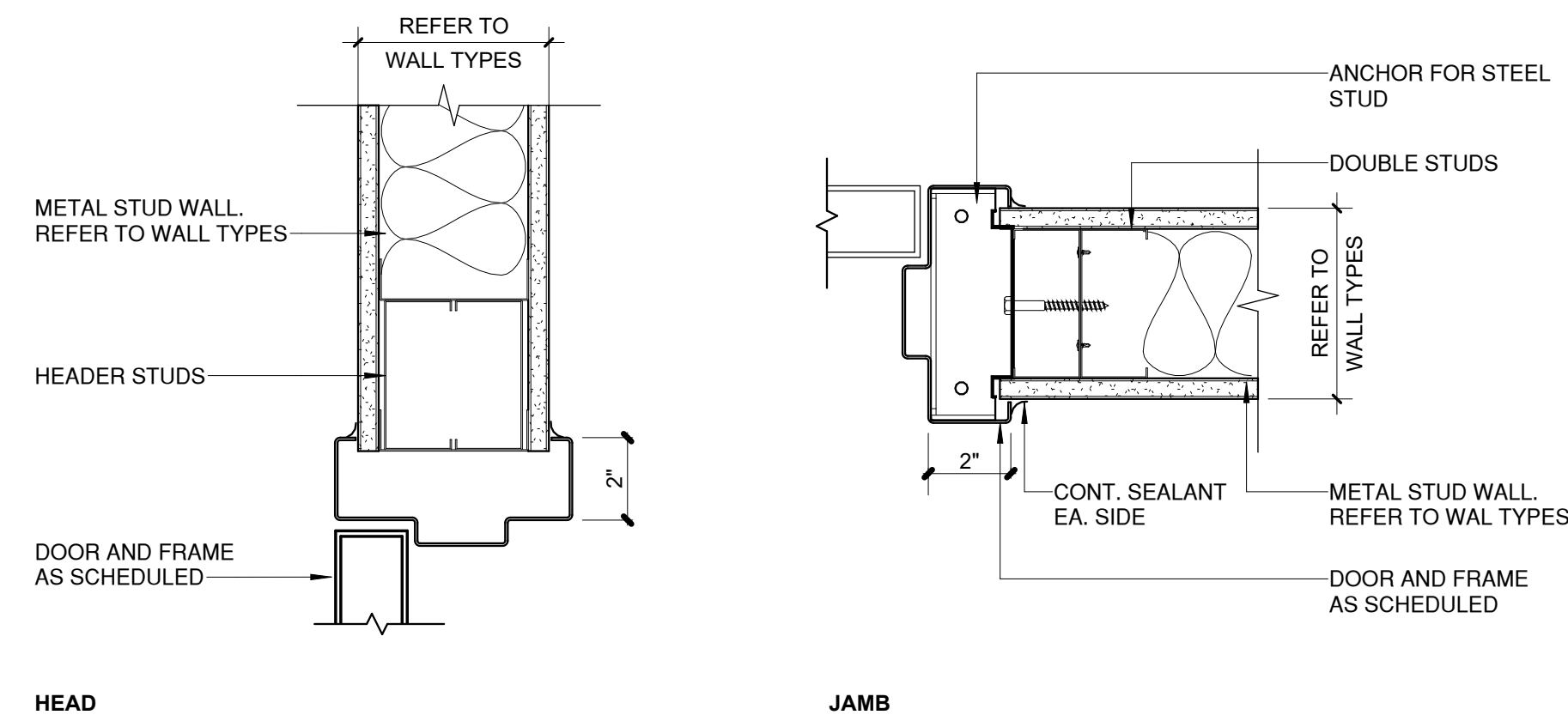
PRIMED, AND PAINTED WITH NOT LESS THAN TWO COATS OF PAINT.

ALL FIRE-RATED WALLS | PARTITIONS ARE REQUIRED TO BE LABELED ABOVE THE CEILING. 4" MINIMUM LETTER AND NUMBERS IN RED SHALL BE STENCILED ON FIRE-RATED WALLS INDICATING RATING AT FREQUENCIES OF NO LESS THAN EVERY TEN FEET, ON BOTH SIDES OF WALL.

ALL FIRE CAULKING AND SEALING SHALL BE REQUIRED TO BE RED AND FOLLOW THE UMC ABOVE CEILING PENETRATION STANDARDS



01 WALL TYPES
1 1/2" = 1'-0"



03 DOOR DETAIL
3" = 1'-0"

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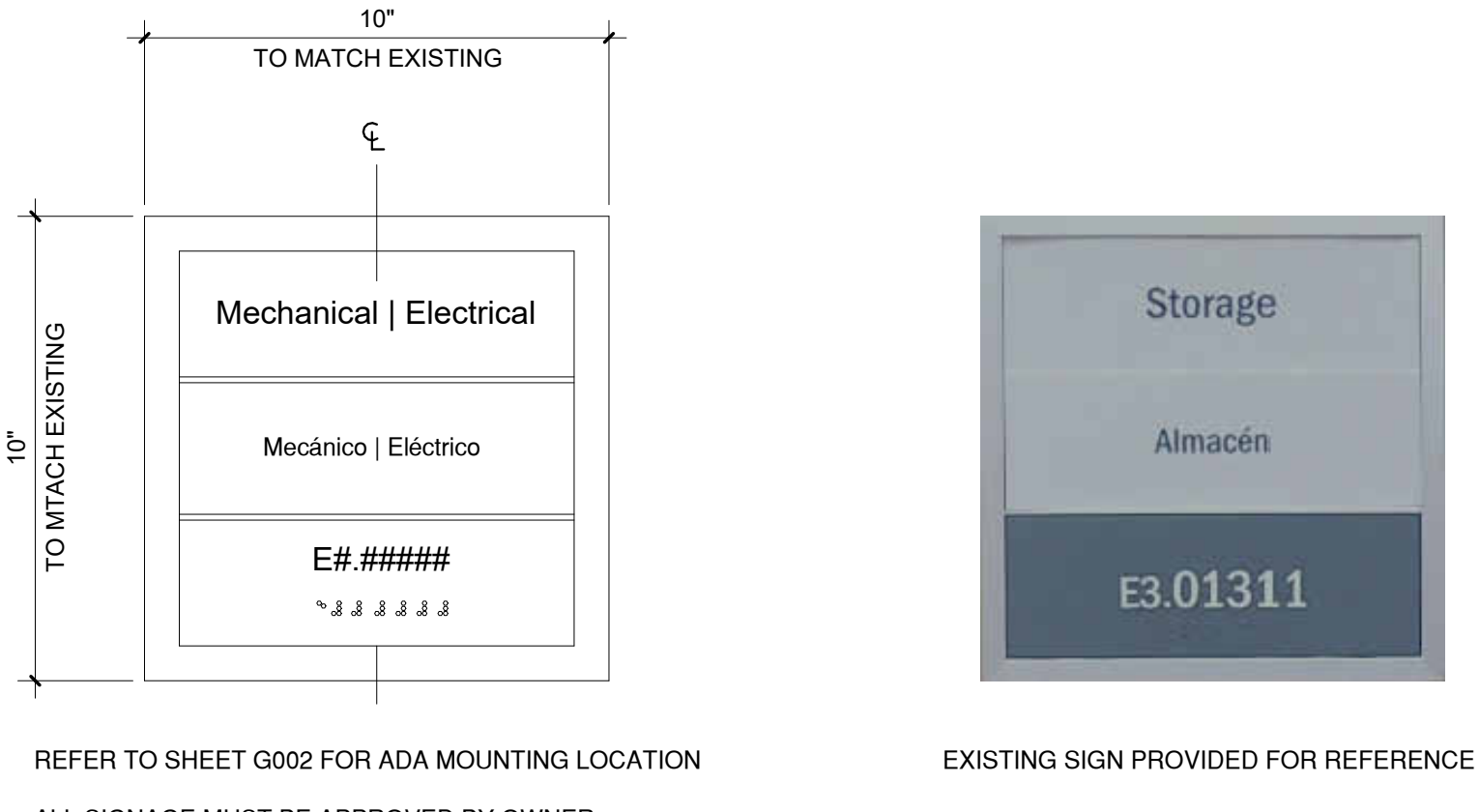
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02 DIAGONAL BRACING DETAIL
3" = 1'-0"

01 NEW INTERIOR SIGNAGE



04 SIGNAGE DETAIL
3" = 1'-0"

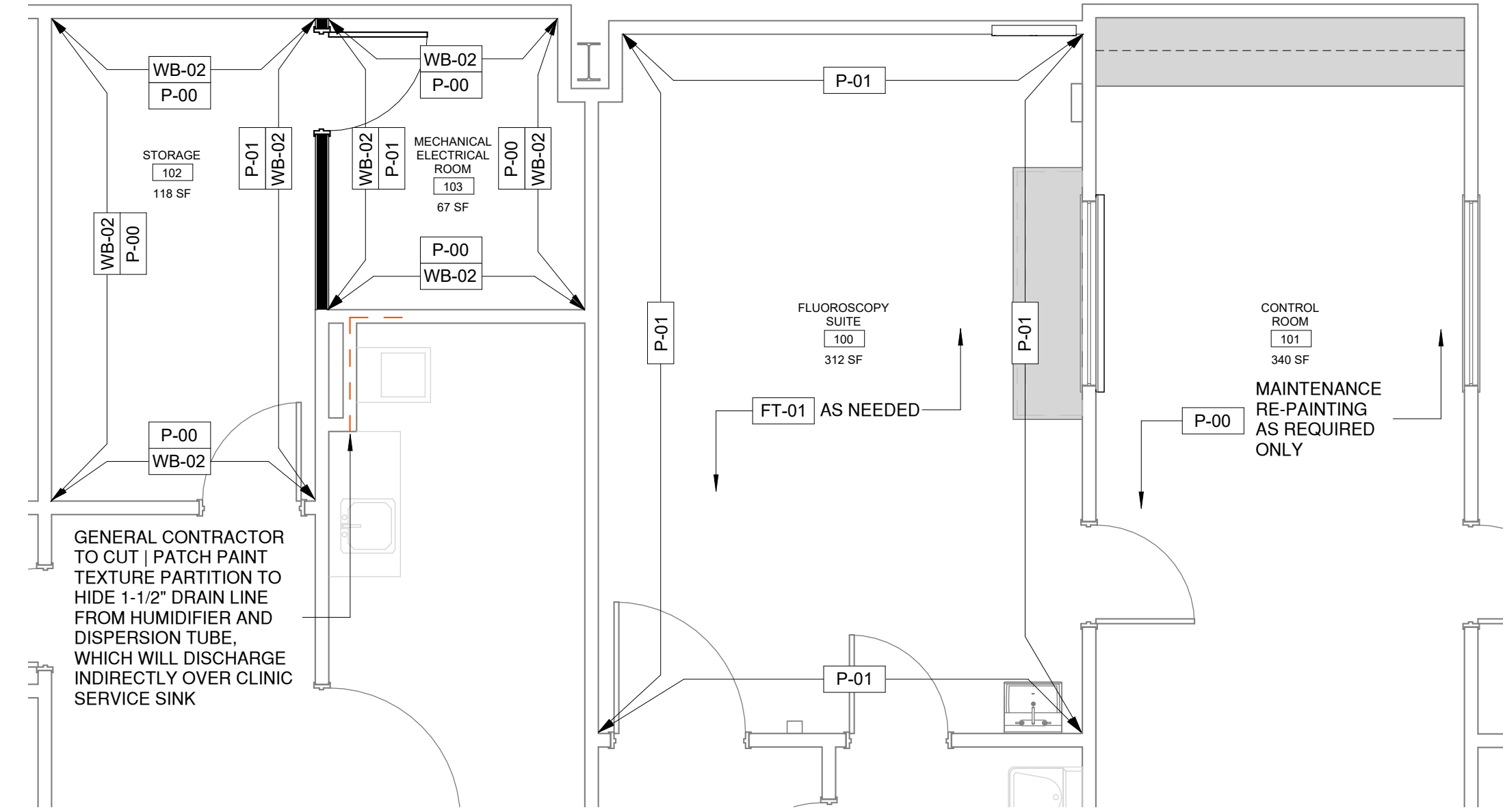
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SHEET TITLE:
WALL TYPES & DETAILS

PERMIT SET

A101

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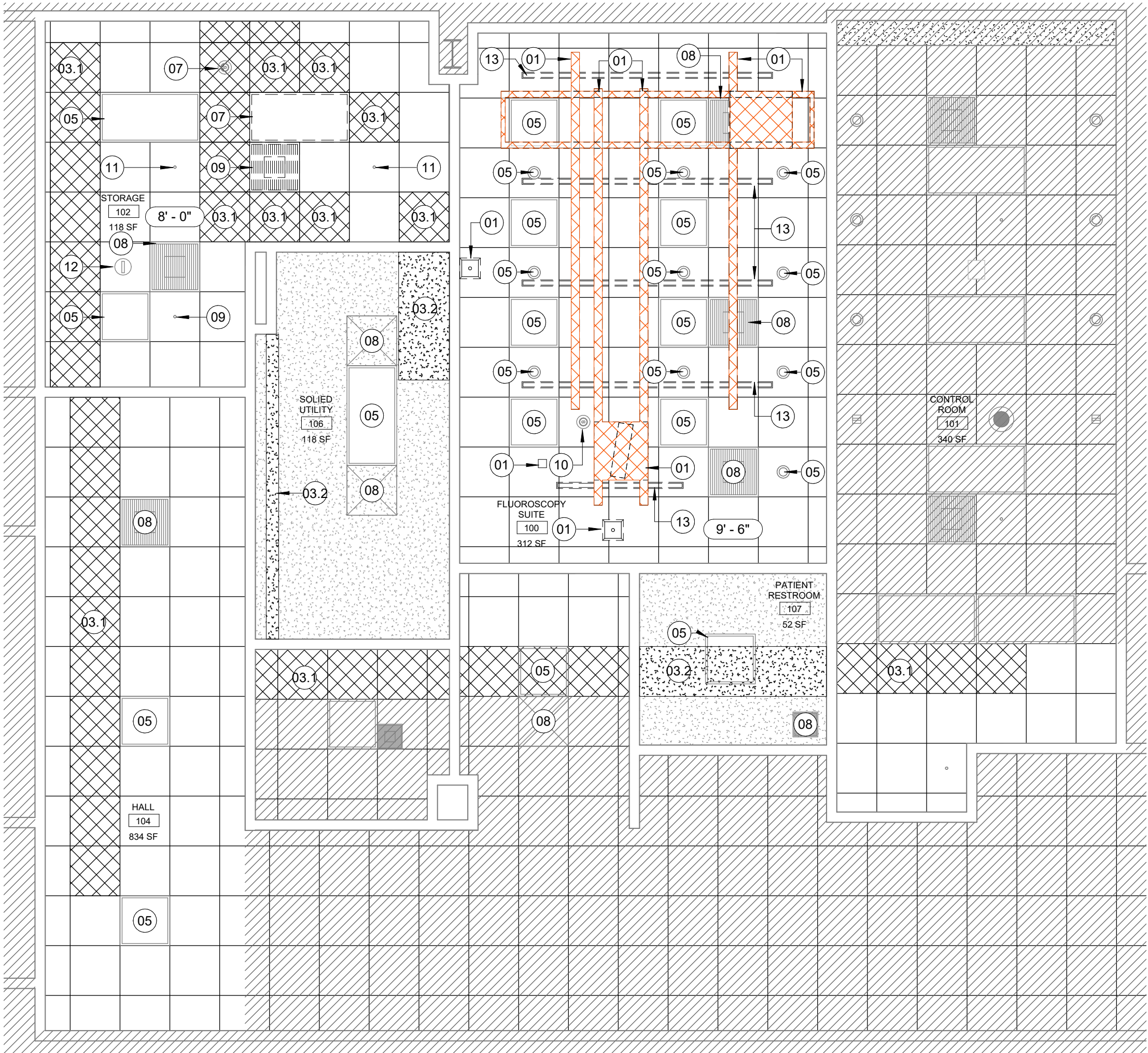




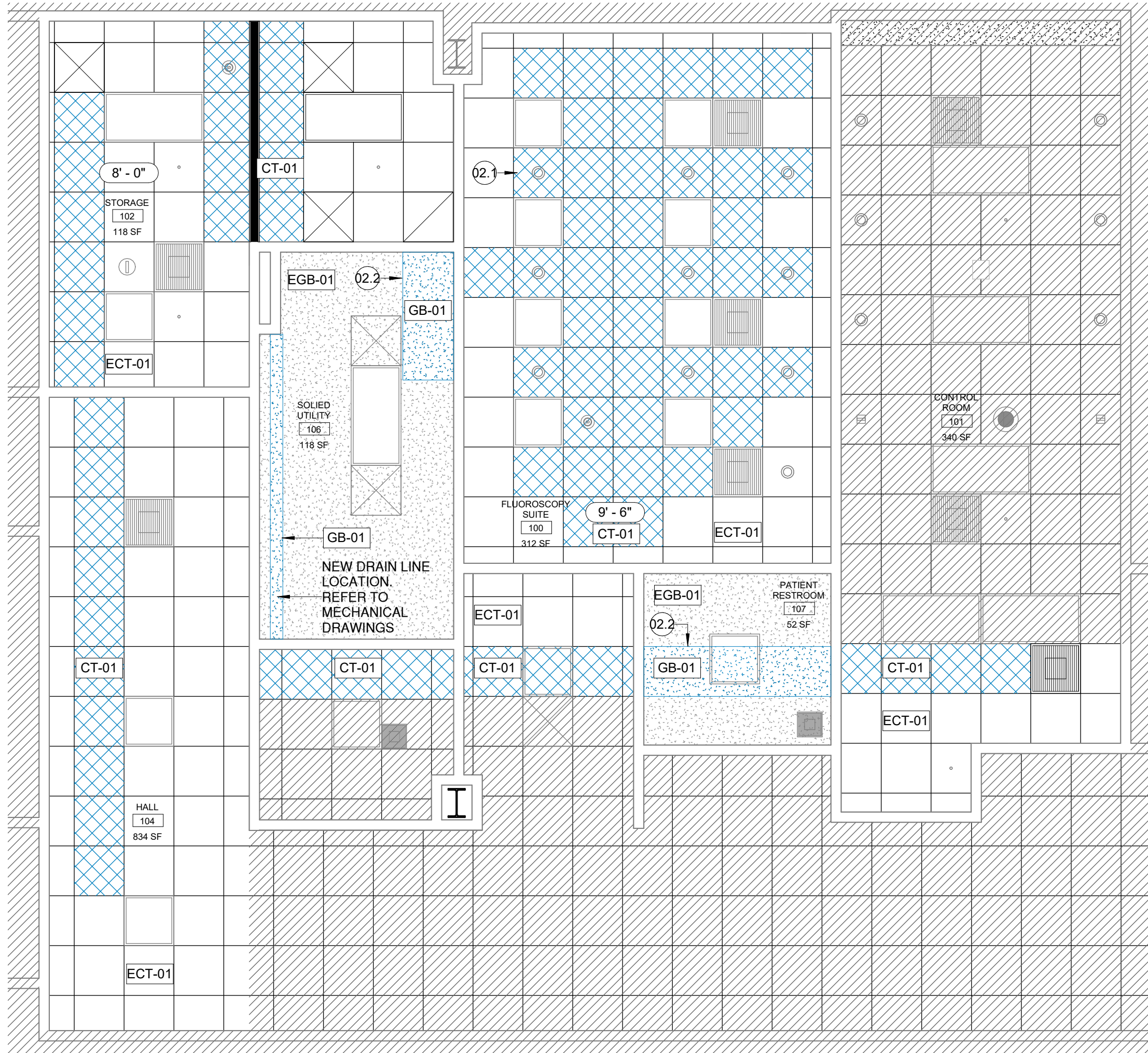
01 FLOOR AND WALL FINISHES PLAN
1/4" = 1'-0"

FINISH SCHEDULE					
ITEM	DESCRIPTION	MAKE MODEL	DIMENSIONS	VENDOR	LEGEND
FLOOR FINISHES					
FT-01	FLOOR TILE	MATCH EXISTING VCT TILE TO PATCH AND REPAIR FLOOR AFTER THE REMOVAL OF THE EXISTING FLUOROSCOPY UNIT, AND PREPARATION FOR INSTALLATION OF NEW UNIT.	...	...	...
WALL FINISHES					
P - 00	PAINT	MAINTENANCE RE-PAINTING AS REQUIRED ONLY.	...	...	...
P - 01	PAINT	MATCH EXISTING PAINT IN COLOR AND SHEEN.	...	...	...
WB-01	WALL BASE	EXISTING WALL BASE TO REMAIN. PATCH AS NECESSARY IN THE REPLACEMENT OF THE MEDICAL EQUIPMENT.	...	...	...
WB-02	WALL BASE	JOHNSONITE, TARKETT, OR APPROVED EQUAL COLOR : AS SELECTED BY OWNER	6" H	...	...
SS-01	STAINLESS STEEL SHEET				
FINISH SCHEDULE KEYED NOTES					
1.	ALL FINISHES SHALL BE APPROVED BY OWNER				
2.	....			

"ALL FINISH MATERIALS USED IN THIS PROJECT WILL MEET 2015 IBC CHAPTER 8 REQUIREMENTS. SPECIFICATION SHEETS OF THESE MATERIALS WILL BE PROVIDED DURING PLAN REVIEW AND AT TIME OF INSPECTIONS."



01 DEMOLITION REFLECTED CEILING PLAN
1/4" = 1'-0"



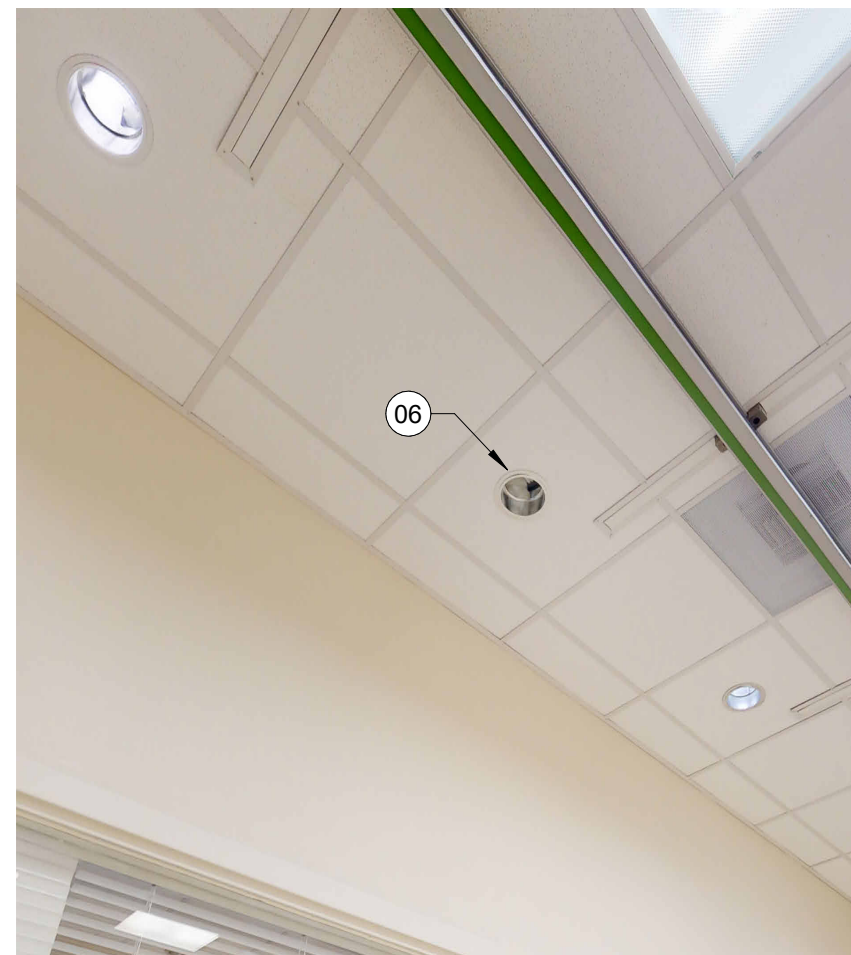
02 PROPOSED REFLECTED CEILING PLAN
1/4" = 1'-0"

CEILING GENERAL NOTES

- PATCH GRID AND REPLACE CEILING TILES TO MATCH EXISTING AS NEEDED THROUGH OUT THE FLUOROSCOPY SUITE. REFER TO THE MECHANICAL DRAWINGS.
- PLEASE NOTIFY ARCHITECT AND REQUEST AN ARCHITECTURAL INSPECTION AFTER REMOVAL OF EXISTING EQUIPMENT.

CEILING NOTES

- EXISTING FLUOROSCOPY UNIT WITH ALL CEILING MOUNTED STRUCTURAL SUPPORTS AND CONNECTIONS TO BE REMOVED BY OWNER.
- GENERAL CONTRACTOR TO PATCH GRID AND REPLACE CEILING TILES TO MATCH EXISTING WHERE CONNECTIONS AND RAILS WERE REMOVED. GC SHALL ALSO BE RESPONSIBLE FOR ANY ABOVE CEILING STRUCTURAL SUPPORTS, CONNECTIONS AND OTHER ACCESSORIES THAT ARE NO LONGER NEEDED AND ABANDONED IN PLACE.
- GENERAL CONTRACTOR TO PATCH AND REPAIR EXISTING GYP. BOARD CEILING AS NEEDED TO MATCH EXISTING WHERE NEW MECHANICAL WORK IS APPLIED. REFER TO MECHANICAL DRAWINGS.
- GENERAL CONTRACTOR TO REMOVE SPECIFIC CEILING TILES AND PREPARE FOR NEW WORK.
- GENERAL CONTRACTOR TO REMOVE SPECIFIC AREAS OF EXISTING GYP. BOARD CEILING AS NEEDED TO ACCOMMODATE NEW WORK.
- ALL TILES AND LOUVERS NEED TO REST COMPLETELY SQUARELY AND COMPLETELY ON THE GRID.
- EXISTING LIGHT FIXTURES TO REMAIN. REFER TO ELECTRICAL DRAWINGS.
- MAKE SURE ALL EXISTING LIGHT FIXTURES TO REMAIN WORK PROPERLY AND SHALL BE POLISHED AFTER ALL NEW WORK IS ACCOMPLISHED.
- RELOCATE EXISTING LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
- EXISTING MECHANICAL HVAC REGISTERS TO REMAIN. REFER TO MECHANICAL DRAWINGS.
- REMOVE EXISTING MECHANICAL HVAC REGISTER. REFER TO MECHANICAL DRAWINGS.
- EXISTING SMOKE DETECTOR TO REMAIN.
- EXISTING SPRINKLED HEADS AND SYSTEM TO REMAIN.
- EXISTING NOTIFICATION DEVICE TO REMAIN.
- EMBEDMENTS IN THE REFLECTED CEILING TILE TO WHICH THE MEDICAL EQUIPMENT SUPPORTS ARE ATTACHED SHALL BE REMOVED BY THE GENERAL CONTRACTOR.



03 EXISTING CEILING - FLUOROSCOPY SUITE - PHOTOS PROVIDED FOR REFERENCE
1/4" = 1'-0"

REFLECTED CEILING FINISH SCHEDULE

ITEM	DESCRIPTION	MAKE | MODEL	DIMENSIONS	VENDOR	LEGEND	NOTES
CEILING FINISHES						
ECT-01	EXISTING CEILING TILE TO REMAIN		24" x 24"			
CT-01	REPLACE TILES TO MATCH EXISTING AS NEEDED		24" x 24"			APPROX. TILES
EGB-01	EXISTING GYP. BOARD TO REMAIN					
GB-01	PATCH AND REPAIR GYP. BOARD AS NEEDED. FINISH AND PAINT TO MATCH EXISTING.					APPROX. PATCHING

LIGHT FIXTURES - REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION

	EXISTING LAY- IN LED PANEL TO REMAIN		2' x 2'			
	RECESSED CAN LIGHT TO REMAIN					

CEILING SUPPLIES - REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR MORE INFORMATION

	EXISTING GRILL TO REMAIN	----	2' x 2'	----		
	SMOKE DETECTOR TO REMAIN	----	----	----		

GENERAL NOTES

- CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE REFLECTED CEILING PLANS WITH:
ELECTRICAL LIGHTING
SYSTEMS AND COMMUNICATION DRAWINGS / AUDIO VISUAL DRAWINGS
MECHANICAL SUPPLIES AND RETURNS
EXHAUST DRAWINGS
FIRE PROTECTION DRAWINGS
- CONTRACTOR TO IMMEDIATELY NOTIFY THE ARCHITECT OF ANY ERROR, INCONSISTENCY OR OMISSION.
- CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE EXISTING REFLECTED CEILINGS TO REMAIN. ANY DAMAGE SHALL BE REPAIR TO MATCH THE EXISTING IN A UNIFORM MANNER FOR TEXTURE.
- WORK SHALL FULLY COMPLY WITH GOVERNING CODES, ORDINANCES, RESTRICTIONS, AND NATIONAL ELECTRIC CODE. TAKE ALL NECESSARY SAFETY MEASURES AND COMPLY WITH LOCAL BUILDING DEPARTMENT REQUIREMENTS FOR PUBLIC PROTECTION (BARRICADES, SIGNS, DUST BARRIERS, ETC).
- CEILING HEIGHTS ARE TO FINISHES SURFACE. GYPSUM BOARD OR CEILING TILE, AS APPLICABLE.
- REFERENCE MECHANICAL AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION AND COORDINATION OF SYSTEMS NOT SHOWN ON THIS PLAN.
- THERE WILL BE NOT BE PROJECTIONS LESS THAN 6'-8" FROM THE CEILING. REFERENCE ALSO INTERIOR ELEV.

Countryman & Co.
Architecture

108 SOUTH STANTON . THIRD FLOOR . EL PASO, TEXAS 79901 915.929.1827



UNIVERSITY
MEDICAL CENTER
OF EL PASO

DRAWN BY: PJ
PROJECT NO: 2023-18
ISSUED: SEPTEMBER 22, 2023

REVISION SCHEDULE:

NO.	DATE	DESCRIPTION

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SHEET TITLE:

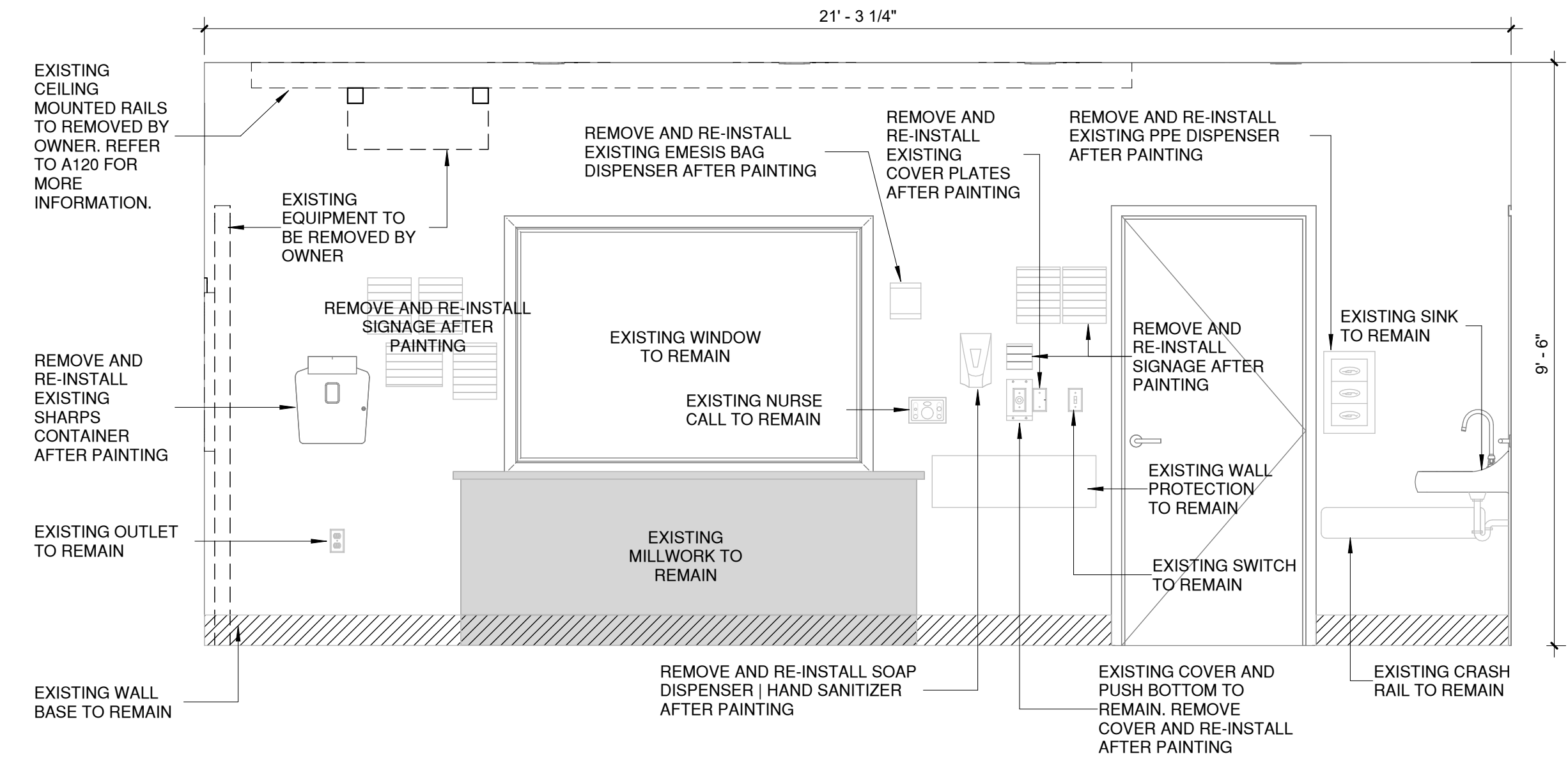
DEMOLITION & PROPOSED REFLECTED CEILING PLAN

PERMIT SET

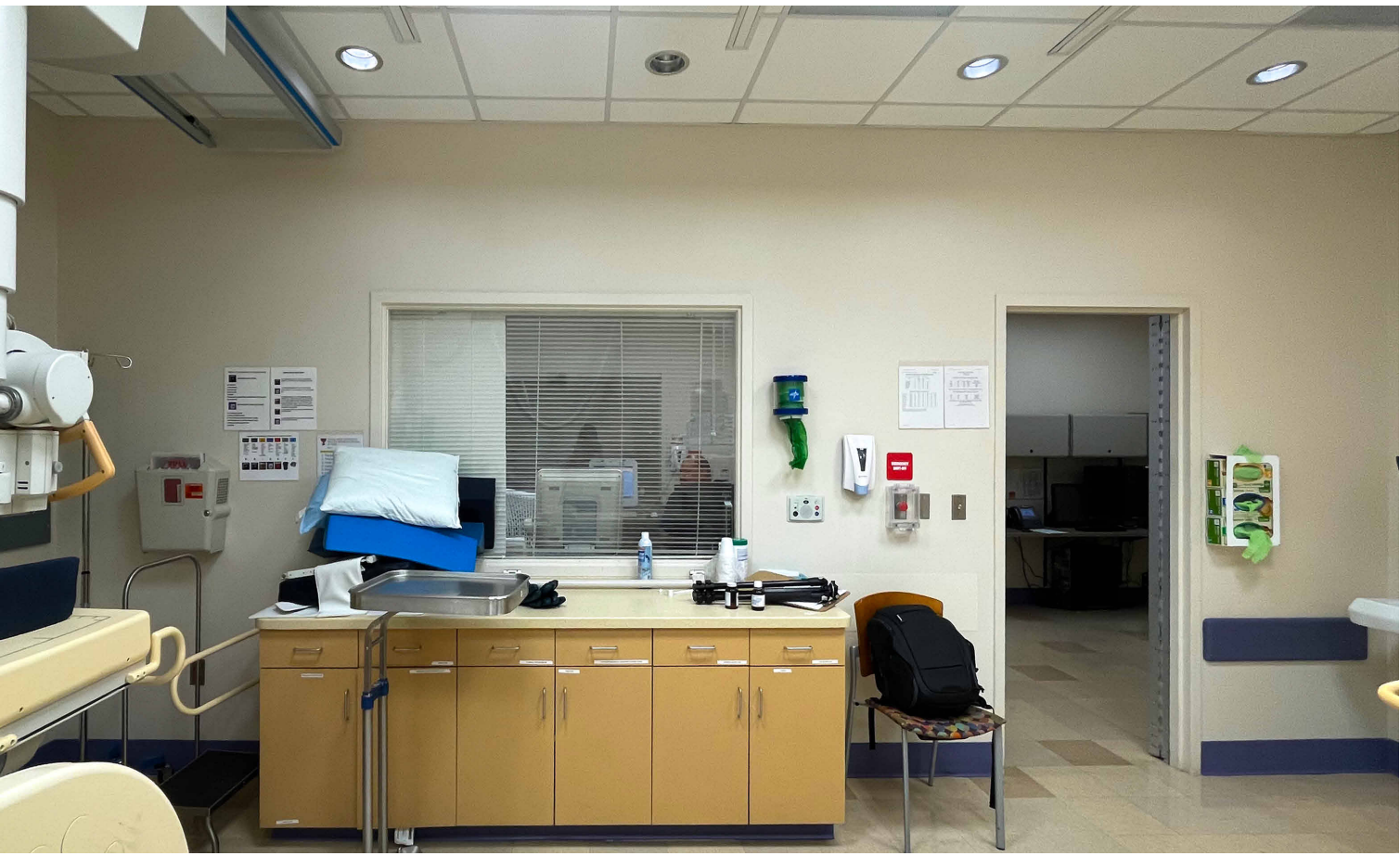
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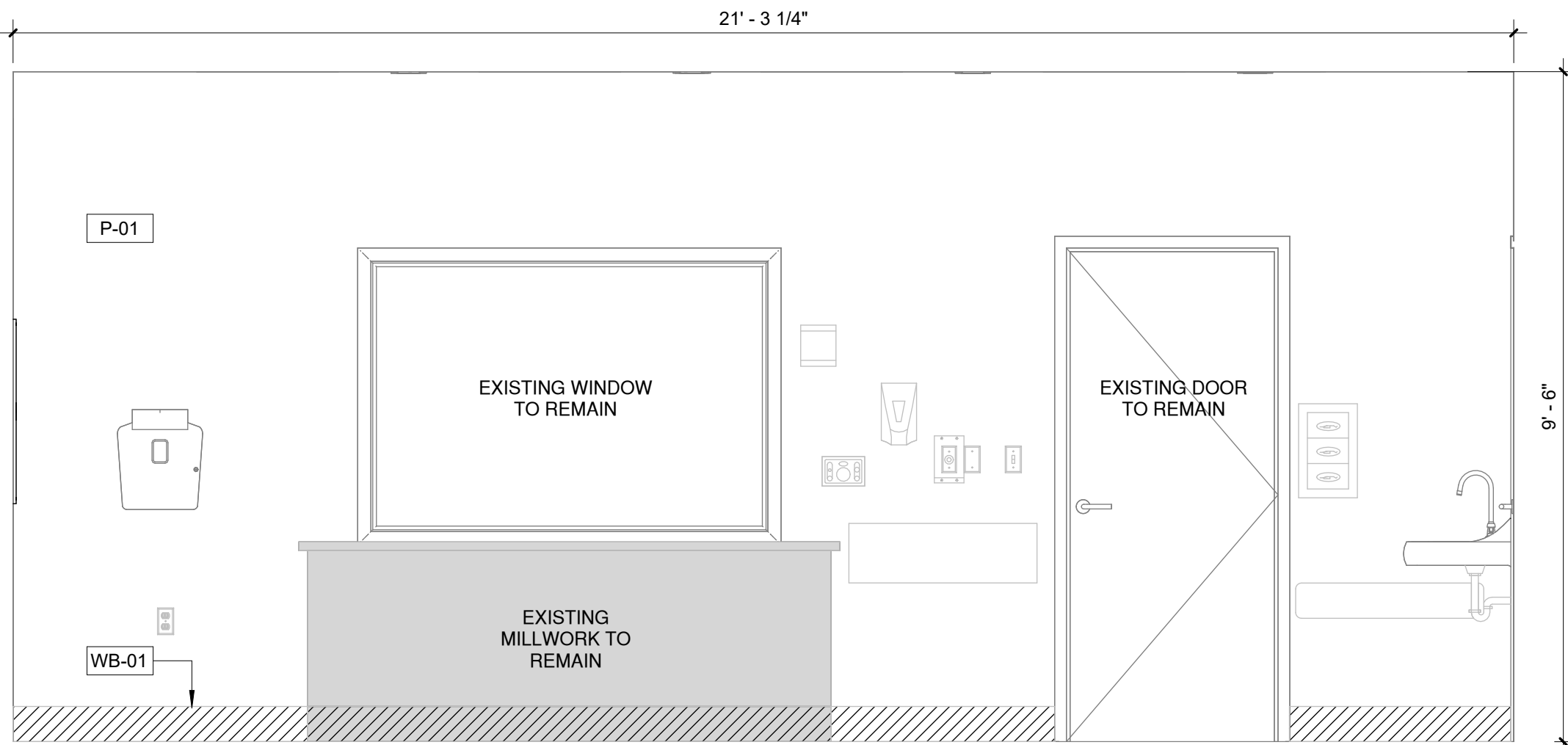
REGISTERED ARCHITECT
COUNTRYMAN
21140
STATE OF TEXAS



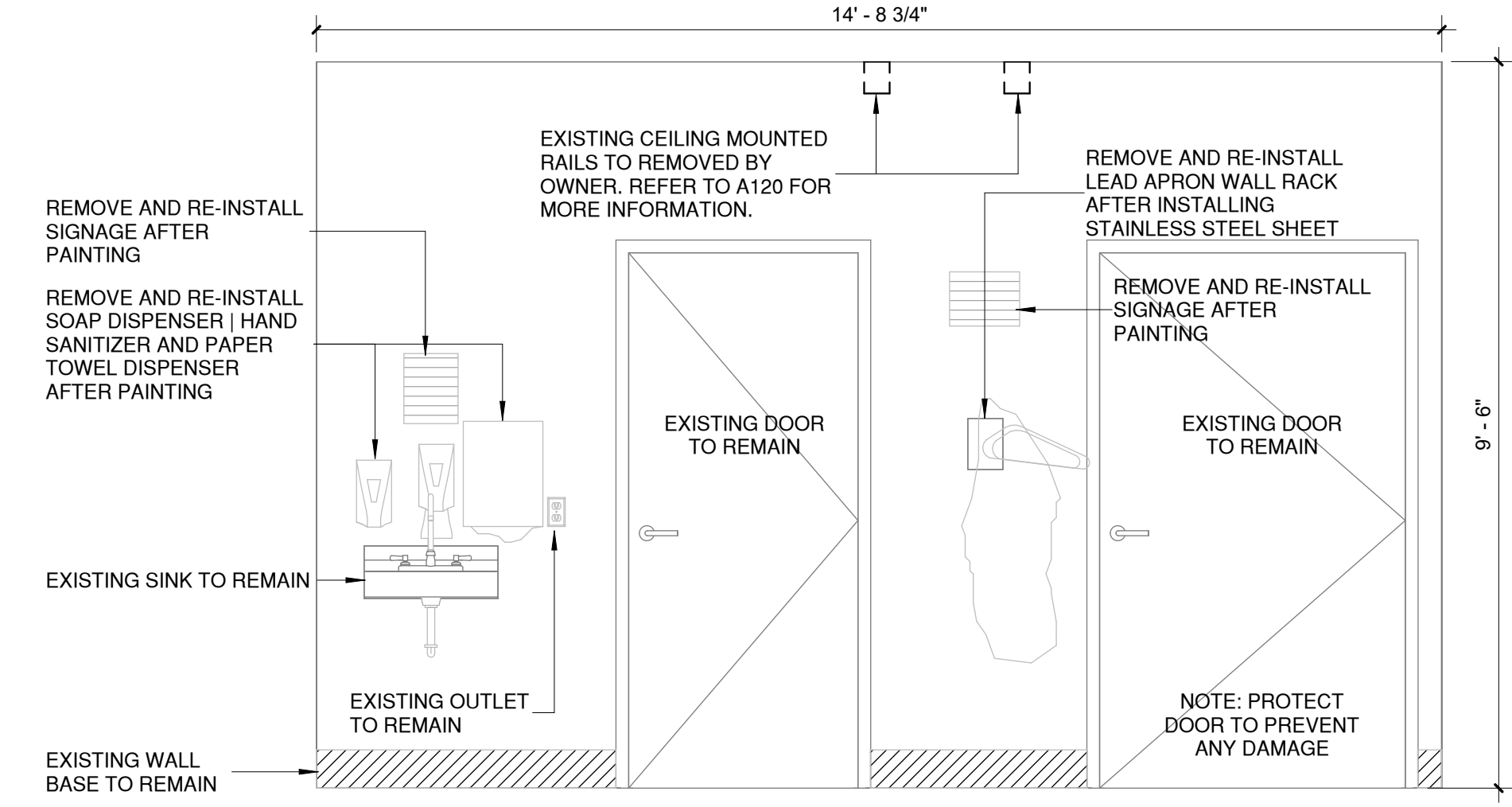
01 EXISTING INTERIOR ELEVATION A
1/2" = 1'-0"



02 EXISTING INTERIOR ELEVATION A - PHOTO PROVIDED FOR REFERENCE
1/2" = 1'-0"



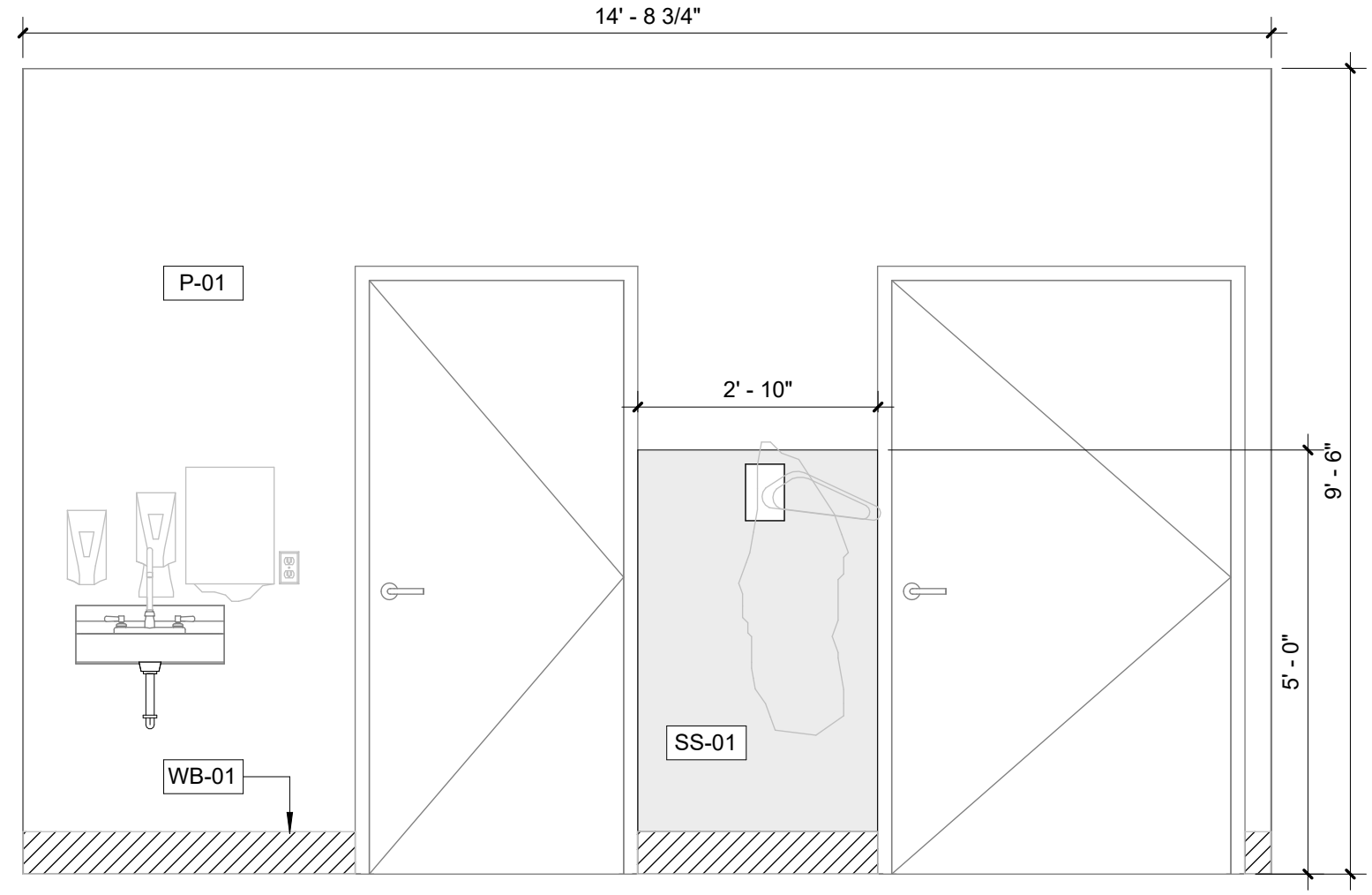
03 PROPOSED INTERIOR ELEVATION A
1/2" = 1'-0"



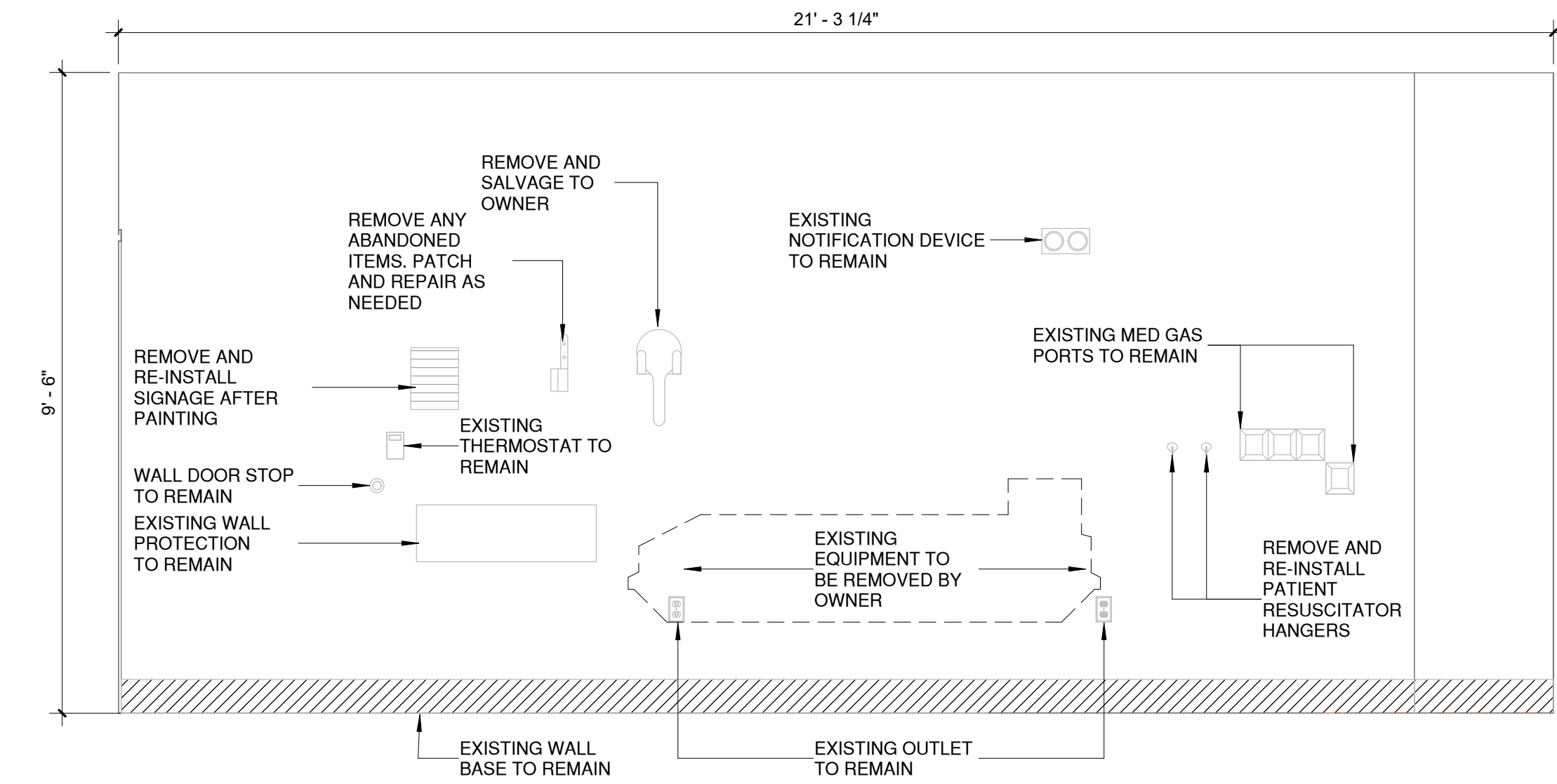
04 EXISTING INTERIOR ELEVATION B
1/2" = 1'-0"



05 EXISTING INTERIOR ELEVATION B - PHOTO PROVIDED FOR REFERENCE
1/2" = 1'-0"



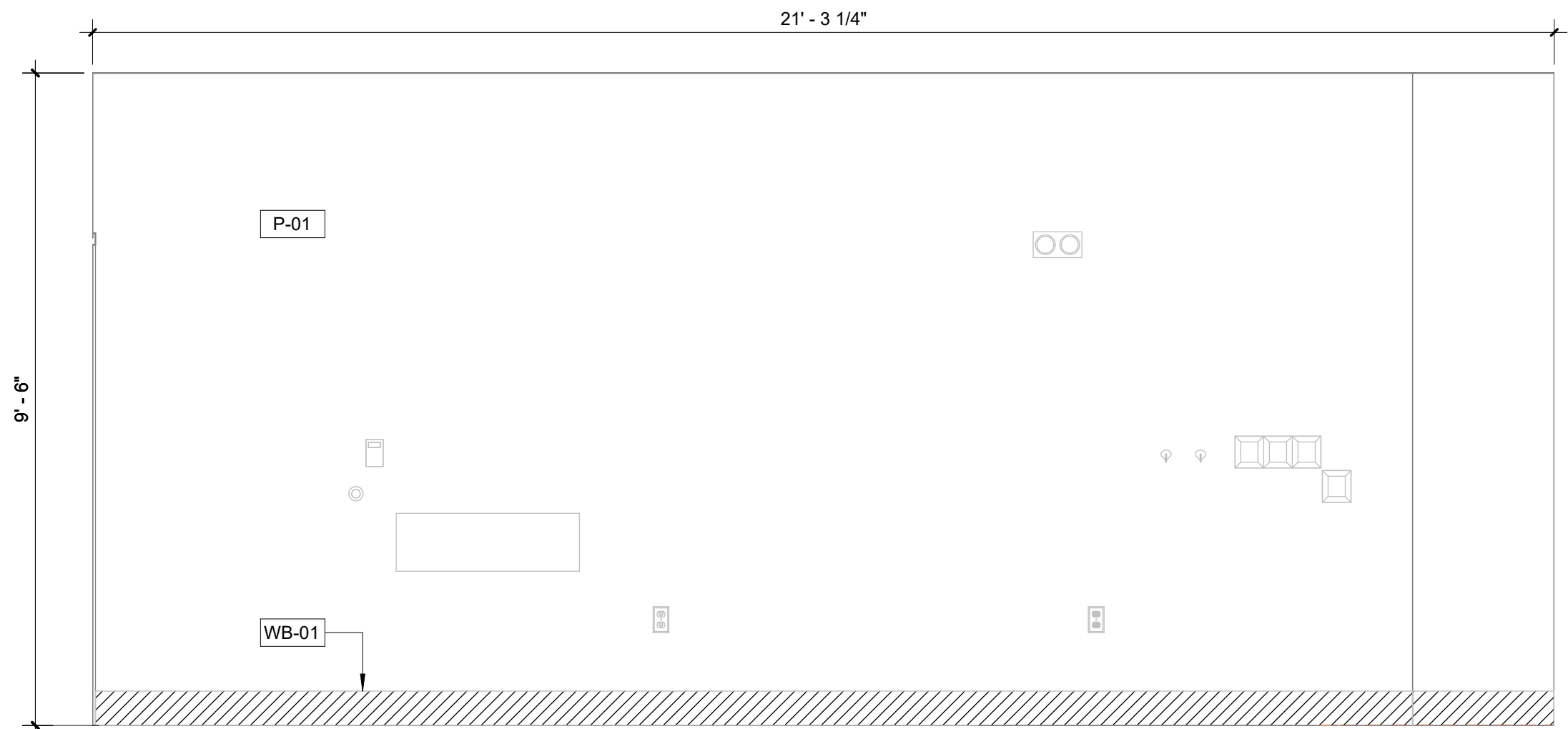
06 PROPOSED INTERIOR ELEVATION B
1/2" = 1'-0"



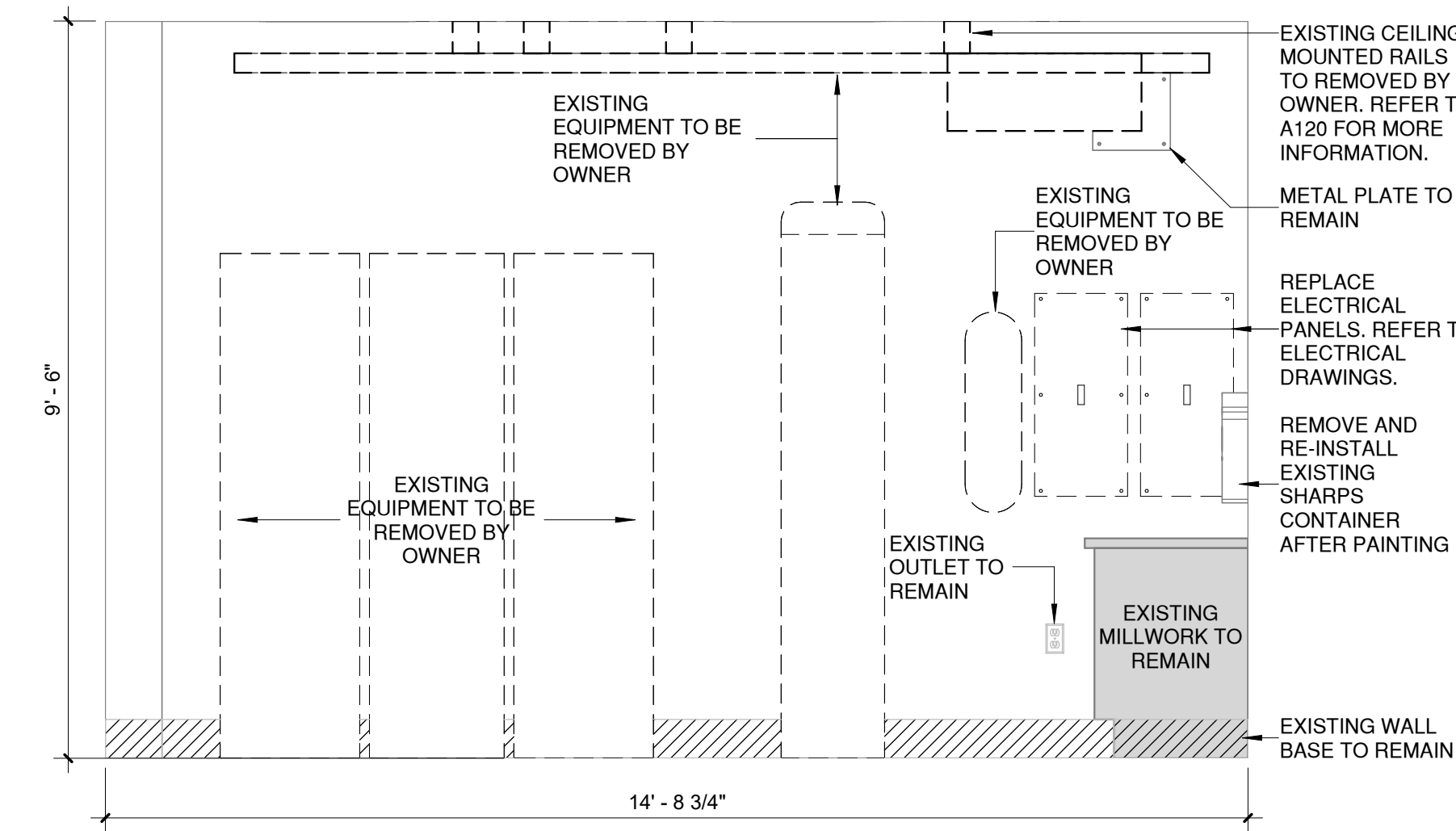
01 EXISTING INTERIOR ELEVATION C
1/2" = 1'-0"



02 EXISTING INTERIOR ELEVATION C - PHOTO PROVIDED FOR REFERENCE
1/2" = 1'-0"



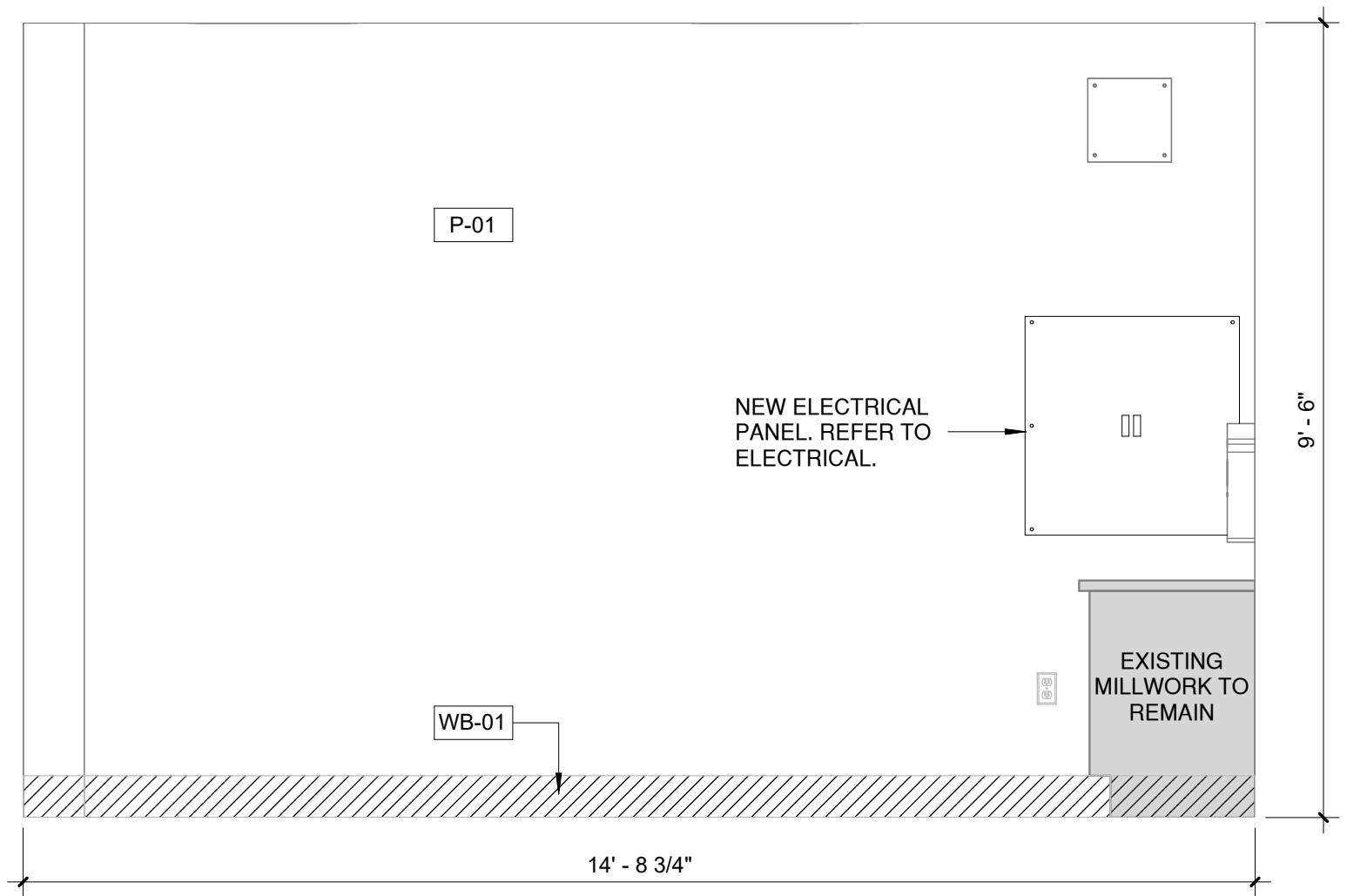
03 PROPOSED INTERIOR ELEVATION C
1/2" = 1'-0"



04 EXISTING INTERIOR ELEVATION D
1/2" = 1'-0"



05 EXISTING INTERIOR ELEVATION D - PHOTO PROVIDED FOR REFERENCE
1/2" = 1'-0"



06 PROPOSED INTERIOR ELEVATION D
1/2" = 1'-0"

Countryman & Co.
Architecture

108 SOUTH STANTON, THIRD FLOOR, EL PASO, TEXAS 79901 915.929.1827



DRAWN BY: PJ
PROJECT NO: 2023-18
ISSUED: SEPTEMBER 22, 2023

REVISION SCHEDULE:

NO.	DATE	DESCRIPTION

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SHEET TITLE:
INTERIOR ELEVATIONS

PERMIT SET

A201



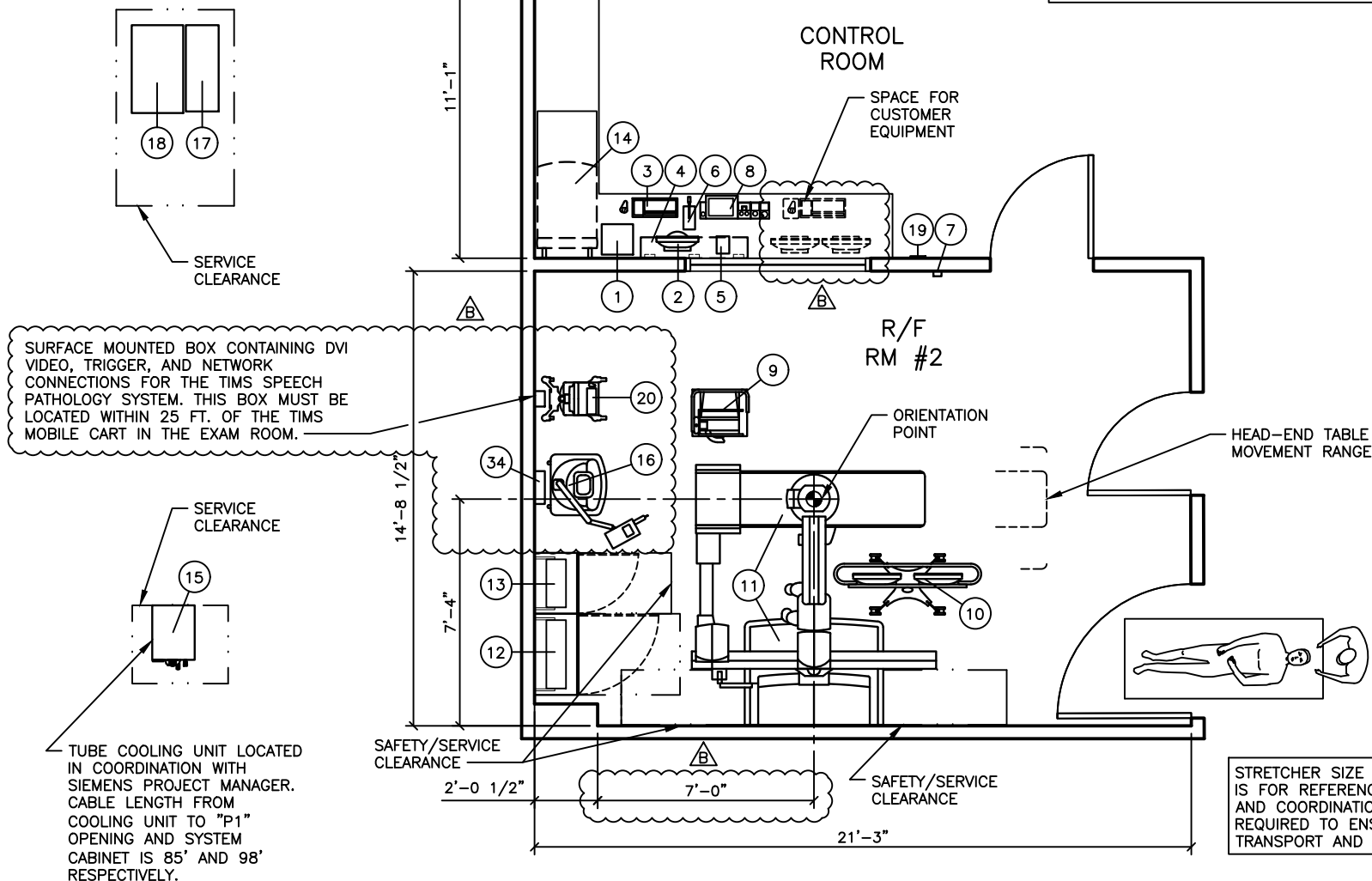
EXISTING CEILING HEIGHT IS 9'-7 1/2"

NOTE: THE UPS IS SUPPLIED AND DELIVERED TO CUSTOMER'S LOADING DOCK BY SIEMENS. CUSTOMER'S ELECTRICIAN IS RESPONSIBLE FOR MOVING FROM LOADING DOCK TO FINAL LOCATION AND COMPLETING ALL CONNECTIONS. THE UPS MUST NOT BE LOCATED IN A PATIENT ENVIRONMENT. SIEMENS PROJECT MANAGER WILL SCHEDULE UPS STARTUP PRIOR TO DELIVERY OF SIEMENS IMAGING EQUIPMENT.

THIS LAYOUT IS REFLECTIVE OF THE LATEST SALES CONFIGURATION. ANY CHANGES TO THIS SALES CONFIGURATION MAY REQUIRE A REVISION TO THIS PROJECT PLAN.

SINKS, COUNTERTOPS AND ALL CASEWORK SHOWN IS SUGGESTED AND MUST BE DESIGNED SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.

IT IS THE RESPONSIBILITY OF THE CUSTOMER/CONTRACTOR TO PROVIDE A MEANS OF MOUNTING THE SYNGO X PC TOWER OFF OF FINISHED FLOOR FOR DAMAGE PROTECTION AGAINST TIP-OVER, FLUIDS, IMPACT, ETC.



Click to acquire Typical PDF technical data

SCALE: 3/16" = 1'-0"

PROJECT MANAGER: MATT WIED
PHONE: (214) 263-4318
EMAIL: MATTHEW.WIED@SIEMENS-HEALTHINEERS.COM

EL PASO COUNTY HOSPITAL DISTRICT

4815 ALAMEDA AVE, 9159, EL PASO, TX 79905

SIEMENS

B 08/22/23 REMOVED YSIO COMPONENTS

SHEET OF 2
1 2

DATE: 08/22/23

DRAWN BY: B. CLEATON

REF: CPQ-781107

R/F RM #2 - ARTIS ZEE MULTI-PURPOSE WITH TIMS
REFERENCE DOCUMENT - NOT FOR CONSTRUCTION

2310949

EQUIPMENT LEGEND

NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES)			REMARKS
					W	D	H	
1	ACE (ARCHIVE CONTROL EXTENSION)	⊖	13	N/A	12 1/4	11 3/4	4	MTD. ON CONTROL COUNTER
2	CONTROL ROOM DISTRIBUTOR	⊖	64	342	41 1/2	8 1/4	16 1/8	MTD. ON WALL
3	KEYBOARD	⊖	2.2	342	17 1/2	6 1/8	2 1/8	MTD. UNDER COUNTER OR ON CONSOLE
4	19" LIVE DISPLAY	⊖	15	256	16 1/2	8 1/4	13 1/2	ON COUNTER OR CONSOLE
5	INTERCOM POWER UNIT	⊖	---	---	6 3/4	5	1 3/8	ON COUNTER
6	INTERCOM MICROPHONE/LOUDSPEAKER (CONTROL ROOM)	⊖	---	---	4 1/2	9	2	ON COUNTER
7	INTERCOM LOUDSPEAKER (PROCEDURE ROOM)	⊖	---	---	3 1/4	2	6	WALL MOUNTED
8	2ND. TABLE CONTROL MODULES	⊖	16	---	20	8 3/4	3 1/2	ON COUNTER
9	TROLLEY FOR CONTROL MODULES	⊖	59	---	23	21	40	MOUNTED ON CASTERS
10	MONITOR CART WITH (2) 19" FLAT SCREEN DISPLAY	⊖	---	---	---	---	---	MOUNTED ON CASTERS
11	ARTIS ZEE MULTI-PURPOSE UNIT	⊖	4,469	---	---	---	---	FLOOR MOUNTED
12	POLYDOROS A100 (POWER UNIT 1)	⊖	662	3,413	31 1/2	17 1/8	87	FLOOR MOUNTED
13	SYSTEM CONTROL CABINET	⊖	594	5,460	23 1/2	17 1/8	87	FLOOR MOUNTED
14	AXIS IMAGE SYSTEM	⊖	331	4,347	23 3/4	37 1/4	28	MTD. ON CASTERS
15	TUBE COOLING UNIT	⊖	80	15,355	16 1/2	28 1/4	19 1/4	FLOOR OR SHELF MOUNTED
16	ANGIOMAT ILLUMENA INJECTOR INTEGRATED PEDESTAL MOUNTED	⊖	90.5	---	---	---	---	SEE MFG REQUIREMENTS
17	EATON 9355 15KVA UPS AND BATTERY	⊖	755	8,134	12 3/4	33 1/2	47 3/4	SEE MFG REQUIREMENTS
18	EATON 9355 OUTPUT TRANSFORMER CABINET	⊖	490	---	20	34 1/8	66	SEE MFG REQUIREMENTS
19	EATON 9355 REMOTE MONITORING DEVICE	⊖	0.5	---	6	1	3	SEE MFG REQUIREMENTS
20	TIMS MOBILE CART W/ MONITOR, MIC, KEYBOARD & MOUSE	⊖	220	512	24	25	64 - 72	
21	ITEM REMOVED							
22	ITEM REMOVED							
23	ITEM REMOVED							
24	ITEM REMOVED							
25	ITEM REMOVED							
26	ITEM REMOVED							
27	ITEM REMOVED							
28	ITEM REMOVED							
29	ITEM REMOVED							
30	ITEM REMOVED							
31	ITEM REMOVED							
32	ITEM REMOVED							
33	ITEM REMOVED							
34	INJECTOR WALL CONNECTION BOX	⊖	11	---	12 3/4	4	10 1/2	WALL MOUNTED



ARCHITECTURAL NOTES

- 1) ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS HEALTHCARE ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND SERVICEABILITY OF THE EQUIPMENT BEING PROPOSED. SIEMENS WILL NOT SUBMIT AN EQUIPMENT LAYOUT THAT IS NOT IN THE BEST INTEREST OF BOTH THE CUSTOMER AND SIEMENS. ALL EQUIPMENT LAYOUTS ARE BASED EITHER ON AN ACTUAL SITE SURVEY OR ARCHITECTURAL DRAWINGS SUPPLIED TO SIEMENS. SIEMENS WILL NOT BE RESPONSIBLE FOR ANY ALTERATIONS THAT ENCROACH WITHIN DESIGNATED SAFETY AND SERVICE CLEARANCE ZONES AS INDICATED ON DRAWINGS (I.E., PIPE CHASES, VENTILATION DUCTS, CASEWORK, AND SOFFITS, ETC.) MADE BY THE CUSTOMER OR REQUIRED BY A CUSTOMER'S ARCHITECTURAL FIRM ONCE PRELIMINARY DRAWINGS HAVE BEEN SUBMITTED AND APPROVED. DO NOT ALTER ANY SPECIFICATIONS AND/OR DIMENSIONS WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER.
- 2) SIEMENS HEALTHCARE IS NOT AN ARCHITECTURAL OR ENGINEERING FIRM. DRAWINGS SUPPLIED BY SIEMENS ARE NOT CONSTRUCTION DRAWINGS. THEREFORE, THESE DRAWINGS ARE TO BE USED ONLY FOR INFORMATION TO COMPLEMENT ACTUAL CONSTRUCTION DRAWINGS AVAILABLE FROM A CUSTOMER APPOINTED ARCHITECTURAL REPRESENTATIVE OR A CUSTOMER'S ENGINEERING DESIGN GROUP. THE CUSTOMER'S ARCHITECT AND GENERAL CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CODES AND PROFESSIONAL DESIGN REQUIREMENTS INCLUDING OSHA/NEC SAFETY CLEARANCE REQUIREMENTS IN ADDITION TO SIEMENS-REQUIRED SAFETY/SERVICE CLEARANCES SHOWN.
- 3) THE CUSTOMER IS RESPONSIBLE FOR ALL ROOM AND AREA PREPARATION COSTS, PROFESSIONAL FEES, PERMITS, REPORTS, AND INSPECTION FEES.
- 4) EQUIPMENT WARRANTIES, EXPRESSED OR IMPLIED ON THE PART OF SIEMENS SHALL BE CONTINGENT UPON STRICT COMPLIANCE WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND RECOMMENDATIONS AND REQUIREMENTS CONTAINED IN THESE DRAWINGS, UNLESS SPECIFIED OTHERWISE.
- 5) ALL DIMENSIONS SHOWN ARE FROM FINISHED SURFACES UNLESS SPECIFIED OTHERWISE.
- 6) THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST. ACTUAL PROTECTION REQUIREMENTS SHALL BE SPECIFIED BY A REGISTERED RADIATION PHYSICIST AT CUSTOMER'S ENGAGEMENT AND EXPENSE. RESPONSIBILITY FOR ALL INFORMATION AS TO THE ROOM LOCATION, USE, AND NUMBER OF ANTICIPATED EXAMINATIONS TO BE PERFORMED PER TIME PERIOD SHALL BE PROVIDED TO THE PHYSICIST BY THE CUSTOMER. THE CUSTOMER SHALL FURTHER TAKE ALL RESPONSIBILITY IN THE COMMUNICATION AND COORDINATION OF ACTIVITIES OF THE RADIATION PHYSICIST AND THE ARCHITECTURAL REPRESENTATIVE.
- 7) SIEMENS HEALTHCARE SHALL BE RESPONSIBLE FOR SIEMENS EQUIPMENT INSTALLATION, CALIBRATION, CONNECTION AND INSTALLATION OF SIEMENS PROVIDED CABLES. THE CUSTOMER/ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR TERMINATIONS OF CUSTOMER/ELECTRICAL CONTRACTOR-SUPPLIED CABLES TO SIEMENS EQUIPMENT. IN THE EVENT THAT SPECIFIC TRADE RULES OR LICENSE REQUIREMENTS PROHIBIT THIS, THE CUSTOMER SHALL INITIATE THE SERVICES OF APPROVED OTHER CONTRACTORS AND PAY FOR SELECTED, APPROVED PARTIES TO PERFORM THIS WORK WITH SUPERVISION PROVIDED BY SIEMENS. CALIBRATION WHEN ACCOMPLISHED OUTSIDE OF NORMAL INSTALLATION SEQUENCES DUE TO CONTRACTOR OR TRADE RULE ACTIONS OR REQUIREMENTS SHALL BE SUPPORTED BY, CHARGED TO, AND ACCEPTED BY THE CUSTOMER AS AN ADDITIONAL INSTALLATION EXPENSE.
- 8) THE CUSTOMER SHALL COORDINATE WITH SIEMENS PROJECT MANAGER THE LOCATIONS AND TRAVEL OF ALL ANCILLARY EQUIPMENT TO BE CEILING OR WALL MOUNTED (I.E.: O.R. LIGHTS, MEDICAL GAS COLUMNS, PHYSIOLOGICAL MONITORING INJECTORS, CRT PLATFORMS, SPRINKLER HEADS, SMOKE DETECTORS, ELECTRICAL OUTLETS, HVAC GRILLES, SPEAKERS, AND GENERAL ROOM LIGHTING, ETC.).
- 9) THE GENERAL CONTRACTOR/CUSTOMER SHALL BE RESPONSIBLE FOR ALL FINAL PAINT, TOUCH-UP AND ANY COSMETIC OR TRIM WORK WHICH NEEDS TO BE OR IS REQUIRED TO BE COMPLETED AFTER THE INSTALLATION OF THE SIEMENS EQUIPMENT AND ANY ASSOCIATED SUPPORT APPARATUS.
- 10) CUSTOMER/CONTRACTOR MUST ASSIST SIEMENS INSTALLERS WITH INSTALLATION OF EQUIPMENT ABOVE 14'-0". REFER TO THE ELECTRICAL NOTES ON SIEMENS SHEET E-101 FOR MORE DETAILS.

FOR ADDITIONAL PLANNING RELATED QUESTIONS, PLEASE REFER TO TYPICAL DRAWING SET OR SIEMENS PROJECT MANAGEMENT.

EXAM RESTRICTIONS:
NOT APPLICABLE

WARNING NOTES:
NOT APPLICABLE

MISCELLANEOUS NOTES:
NOT APPLICABLE



Authorization:

I have reviewed the below referenced plan(s) and understand and agree with the proposed room configuration and equipment arrangement. By signing below, I agree that I have the authority to sign on behalf of the customer. I have been fully informed by Siemens about the limitations (if applicable) that exist regarding the proposed equipment installation. Siemens has explained that the listed limitations may interfere with certain functions of the equipment. We agree to assume responsibility to inform employees, agents, contractors, users or any other persons handling this equipment of these limitations and will assure that the equipment is handled in compliance with these parameters.

Signature: _____ Date: _____

Name Printed: _____ Title: _____

PROJECT MANAGER: MATT WIED
PHONE: (214) 263-4318
EMAIL: MATTHEW.WIED@SIEMENS-HEALTHINEERS.COM

EL PASO COUNTY HOSPITAL DISTRICT

4815 ALAMEDA AVE, 9159, EL PASO, TX 79905

SIEMENS

B 08/22/23 REMOVED YSIO COMPONENTS

SHEET OF
2 2

DATE:
08/22/23

DRAWN BY:
B. CLEATON

REF:
CPQ-781107

R/F RM #2 - ARTIS ZEE MULTI-PURPOSE WITH TIMS
REFERENCE DOCUMENT - NOT FOR CONSTRUCTION

2310949

HVAC GENERAL NOTES

1. CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS, AS WELL AS OTHER RELATED TRADES (INCLUDING ARCHITECTURAL, CIVIL, STRUCTURAL, AND ELECTRICAL) PRIOR TO BID TO INSURE ACCURATE UNDERSTANDING OF EXACT SCOPE OF WORK. ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID.
2. CONTRACTOR SHALL VERIFY ALL EQUIPMENT MODEL NUMBERS, CAPACITIES, SIZES, VOLTAGES AND ALL OTHER SCHEDULED INFORMATION WITH ALL OTHER APPLICABLE TRADES AND WITH THE MANUFACTURERS PRIOR TO INSTALLATION.
3. THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL NECESSARY OFFSETS OF DUCTWORK AND PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN SUCH A WAY AS TO CONFORM TO THE SPACE AVAILABLE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT COSTS. THIS NOTIFICATION SHALL BE MADE PRIOR TO THE INSTALLATION OF THE ITEMS CONCERNED.
4. NEW AND/OR EXISTING EQUIPMENT INDICATED ON THIS DRAWING IS SHOWN IN APPROXIMATE POSITION(S). CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EQUIPMENT LOCATIONS, P.O.C.'S AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. IN ALL CASES, ADEQUATE ACCESS (PER MANUFACTURERS RECOMMENDATIONS AND CODE COMPLIANCE) FOR MAINTENANCE AND REPLACEMENT OF EQUIPMENT SHALL BE PROVIDED.
5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, COUNTY, STATE AND FEDERAL CODES, RULES AND REGULATIONS. NOTHING SHOWN IN THE PLANS IS INTENDED TO INDICATE THAT THE INSTALLATION OR CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO MANUFACTURERS INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS THE CONTRACTOR IS RESPONSIBLE TO INSURE THAT THE INSTALLATION AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORMS TO MANUFACTURERS INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.
6. SUBSTITUTIONS: 10 WORKING DAYS PRIOR APPROVAL REQUIRED AS INDICATED UNDER THE GENERAL AND/OR SUPPLEMENTAL CONDITIONS OF THESE SPECIFICATIONS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ELECTRICAL, MECHANICAL AND CHANGES TO THE STRUCTURE WHEN USING A PRODUCT OTHER THAN THE SPECIFIED PRODUCT. AS BUILT DRAWING CHANGES ARE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
7. PROVIDE LONG RADIUS ELBOWS WITH OUT VANES, MANUAL BALANCING DAMPERS WITH 2" STANDOFF ON ALL BRANCH SUPPLY AND OUTSIDE AIR DUCTS.
8. DUCT SIZES SHOWN ARE "CLEAR INSIDE" DIMENSIONS.
9. SNAPLOCK, DUCTWORK AND FITTINGS NOT ALLOWED.
10. ALL DUCTWORK AND FITTINGS SHALL BE 24 GAUGE MINIMUM. INSTALLED AND FABRICATED IN ACCORDANCE WITH "ASHRAE GUIDELINES AND SMACNA STANDARDS." FOR DUCT SIZE 18" WIDE AND LARGER PROVIDE DUCTMATE 25.
11. SEAL ALL DUCT JOINTS WITH A U.L. LISTED HIGH PRESSURE DUCT SEALER DUCTMATE FIBERSEAL.
12. PROVIDE ALL SUPPLY AND RETURN DUCTWORK ABOVE THE CEILING WITH DUCTWRAP INSULATION WITH AN INSTALLED R VALUE OF 6. LABEL SUPPLY AND RETURN DUCT SYSTEM WITH THE NAME OF THE AIR CONDITIONING UNIT SOURCE.
13. EXACT PLACEMENT OF DIFFUSERS AND REGISTERS SHALL BE COORDINATED WITH ARCHITECTURAL AND ELECTRICAL DRAWINGS PRIOR TO THE INSTALLATION. CONNECT DIFFUSER WITH A 5" SECTION, MAXIMUM OF THERMAFLEX COMMERCIAL GRADE MODEL M-KE UL LISTED 18" DUCT WITH 2" INSULATION R-8, RESIDENTIAL FLEXIBLE DUCTWORK NOT ALLOWED.
14. ALL HVAC EQUIPMENT, MATERIAL, AND ALL CONNECTIONS THERETO SHALL BE INSTALLED COMPLETE PER MANUFACTURERS INSTRUCTIONS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM.
15. CONTRACTOR AND ARCHITECT TO VERIFY SENSOR LOCATIONS. ALL TEMPERATURE SENSORS TO BE MOUNTED 48" A.F.F.
16. ALL SUPPLY AND RETURN DUCTS MUST DROP BETWEEN ROOF JOISTS (VERIFY BEFORE SETTING UNITS).
17. ALL MECHANICAL WORK MUST BE COORDINATED WITH ARCHITECT AND ELECTRICIAN BEFORE INSTALLATION.
18. KEEP ALL FLUES AND EXHAUST CAPS A MINIMUM OF 10' AWAY OR 3' ABOVE ALL FRESH AIR INTAKES ON A/C UNITS AND ALL VERTICAL PORTIONS OF BUILDING OR PLUMBING VENTS PER INTENTION MECHANICAL CODE.
19. CONTRACTOR TO PROVIDE AND INSTALL ALL ROOF TOP UNITS ON A MICROMETL (OR EQUAL) 14" KNOCKDOWN ADJUSTABLE PITCH FACTORY ROOF CURB. INSULATE CURB PERIMETER WALLS IN THE FIELD WITH 1" RIGID INSULATION.
20. MECHANICAL CONTRACTOR TO INSTALL NEW FILTERS IN ALL A/C UNITS AT TURN OVER.
21. PROVIDE BACK DRAFT DAMPERS AND BIRD SCREENS IN ALL EX-HAUST SYSTEMS.
22. MECHANICAL CONTRACTOR SHALL PROVIDE FIRE DAMPERS WHERE REQUIRED BY CODE AND AT DUCTS PENETRATING RATED ASSEMBLIES. MECHANICAL CONTRACTOR SHALL INSTALL DAMPERS IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS. PROVIDE EACH DAMPER WITH AN 18"x18" DUCTMATE SANDWICH ACCESS DOOR.
23. ILLUSTRATIONS SHOWN ARE MEANT TO BE USED AS A GENERAL GUIDE ONLY AND ARE NOT INTENDED TO INCLUDE ALL DETAILS FOR ANY SPECIFIC INSTALLATION. ALL INSTALLATIONS MUST COMPLY WITH ALL APPLICABLE CODES AND ITS CONTRACTORS RESPONSIBILITY TO PROVIDE THE OWNER WITH A FULLY FUNCTIONAL HVAC SYSTEM.
24. SENSORS SHALL BE CALIBRATED DURING TEST AND BALANCE AND SHALL BE DOCUMENTED IN THE REPORT.
25. CONTRACTOR SHALL PROVIDE A 24X24" GASKETED AIR TIGHT CEILING ACCESS DOORS FOR FIRE DAMPERS, VAV BOXES, FAN COILS LOCATED ABOVE HARD CEILINGS AND 12X12" ACCESS DOOR FOR PLUMBING ACCESSORIES AND VOLUME DAMPERS.
26. CONTRACTOR SHALL PATCH AND PAINT TO MATCH EXISTING CEILINGS, WALLS AND FLOORS THAT WERE OPENED AS PART OF THIS WORK CONTRACTOR SHALL PROVIDE A PRELIMINARY TAB REPORT THAT SHALL BE REVIEWED BY THE ENGINEER, BEFORE OF SUBSTANTIAL COMPLETION FOR THE PROJECT.
27. START UP OF MAJOR EQUIPMENT SHALL BE PROVIDED BY A FACTORY AUTHORIZED AGENT. FIELD REPORTS AND STAR UP CHECK LIST SHALL BE SUBMITTED TO OWNER BY THE START UP AGENT THROUGH THE ENGINEERS PRIOR TO WALK THRU AS A PART OF THE EQUIPMENT CHECK LIST PROCEDURE.
28. WARRANTIES CANNOT BEGIN UNTIL THE DATE OF FINAL ACCEPTANCE HAS BEEN ESTABLISHED.
29. GENERAL CONTRACTOR SHALL ENGAGE AN NEEB, AABC OR TABB CERTIFIED TEST AND BALANCE COMPANY. PROVIDE A PRELIMINARY TAB REPORT THAT SHALL BE REVIEWED BY THE ENGINEER, OWNER AND ARCHITECT BEFORE PROJECT SUBSTANTIAL COMPLETION.

UMC ENGINEERING DEPARTMENT
GENERAL NOTES

1. ALL CONTRACTORS MUST FOLLOW THE NEW "ABOVE CEILING WORK PERMIT". REFER TO SHEET M400 FOR MORE INFORMATION.
2. ALL DEVICES INSTALLED MUST HAVE FULL ACCESS TO PROGRAMMING. "NO PROPRIETARY DEVICES".
3. ALL EMC MOTORS, MUST HAVE BYPASS CAPABILITIES AND FULL ACCESS TO PROGRAM FOR EMERGENCY SITUATIONS.
4. VFD (IF INSTALLED) MUST NOT EXCEED 60 HZ DESIGN AND MUST HAVE BYPASS CAPABILITIES.
5. NEW BLOWER COIL UNIT MUST MATCH ELECTRICAL AND MECHANICAL LAYOUT TO EXISTING FCU.
6. BLOWER COIL MUST HAVE ACCESS TO PRIMARY/SECONDARY PAN, COILS AND MOTOR FOR SERVICING EQUIPMENT.
7. ALL DDC CONTROLLERS AND DEVICES (HEATING/COOLING ACTUATORS) MUST BE ACCESSIBLE FOR SERVICE.
8. SECONDARY PAN MUST BE PIPED TO DRAIN AND HAVE A FLOAT SWITCH INTEGRATED TO EMCS FOR NOTIFICATION CAPABILITIES.
9. CONTRACTOR ADVISED DOOR SWITCHES AT ANTE/COMPOUNDING ROOM MUST BE INTERCHANGEABLE.
10. VENTS MUST BE PROPERLY SECURED TO CEILING ASSEMBLY AND SECONDARY HANGING ASSEMBLY (EYEBOLTS) MUST BE SECURED IN A DIFFERENT LOCATION.

CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING ALL DEMOLITION EQUIPMENT (OUT OF SERVICE), TO INCLUDE AND NOT LIMITED TO ELECTRICAL PIPES, CONTROL WIRES, DUCTWORK, ETC.

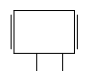
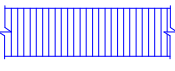

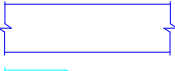
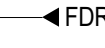
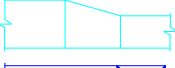




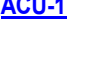
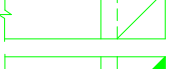







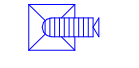

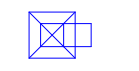


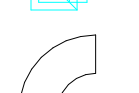
ALL ABOVE CEILING LIFE SAFETY DEFICIENCY MUST BE DISCLOSED TO UMC BEFORE OR DURING DEMOLITION ACTIVITIES.

ALL FILTERS MUST BE ACCESSIBLE AND DEMONSTRATED TO OWNER FOR PROPER REMOVAL WITHOUT DAMAGING FILTER.

HEPA FILTERS ON NEW FAN ASSISTED UNITS MUST BE MONITORED BY BASS AND A MANOMETER OR DIFFERENTIAL PRESSURE MEASURING DEVICES THAT IS READILY ACCESSIBLE AND PROVIDE A READING OF DIFFERENTIAL STATIC PRESSURE ACROSS THE FILTER TO INDICATE WHEN THE FILTER NEEDS TO BE CHANGED.

ALL CONTROLS AND HVAC EQUIPMENT ABOVE CEILING MUST BE ACCESSIBLE FOR SERVICE.

MECHANICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SINGLE INLET VAV		FLEXIBLE DUCTWORK.
	VOLUME DAMPER.		SUPPLY RIGID DUCTWORK.
	FIRE DAMPER.		RETURN RIGID DUCT TRANSITION.
	ACCESS DOOR.		SUPPLY AIR DUCT ROOF PENETRATION
	NEW TO EXISTING CONNECTION		RETURN DUCT ROOF PENETRATION.
	EQUIPMENT DESIGNATION		EXHAUST RIGID DUCT DOWN.
	DRAIN LINE		EXHAUST DUCT ROOF PENETRATION
	CONDENSATE DRAIN		SIDEWALL SUPPLY AIR OUTLET
	CHILLED WATER SUPPLY LINE		SIDEWALL RETURN OR EXHAUST AIR OUTLET
	CHILLED WATER RETURN LINE		CEILING DIFFUSER WITH FLEXIBLE DUCT
	HOT WATER SUPPLY LINE		HARD CONNECTED CEILING DIFFUSER
	HOT WATER RETURN LINE		CEILING RETURN OR EXHAUST GRILLE.
			LONG RADIUS ELBOW WITH OUT VANES.

FIRE DAMPER SCHEDULE

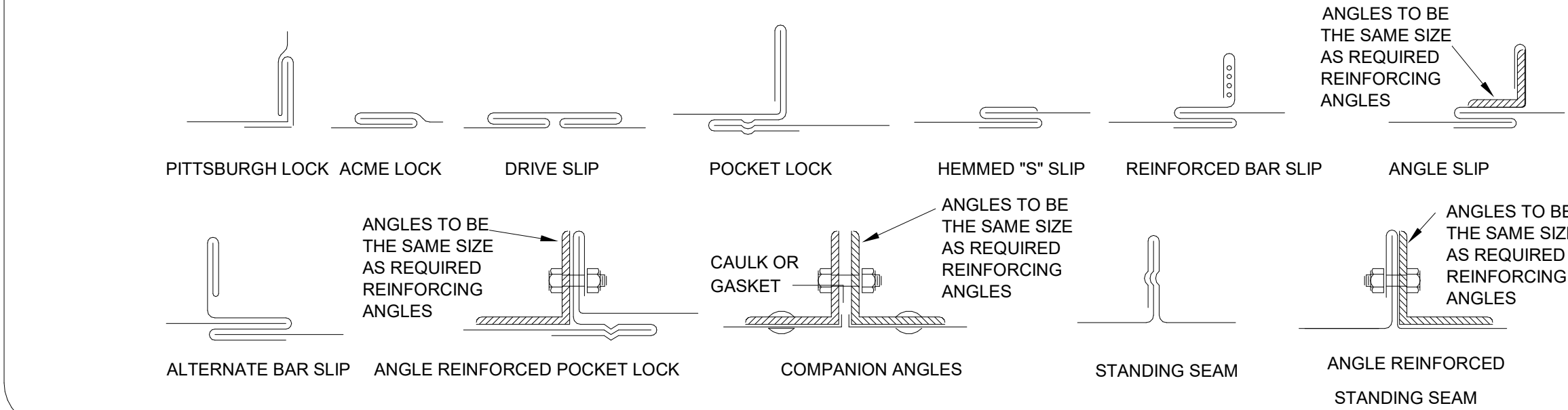
PRE-APPROVED EQUAL POTTORFF, RUSKIN		
MARK	MANUFACTURER AND MODEL NO.	REMARKS
FDR	NAILOR MODEL D0124-1	TYPE B 1-1/2 HR CURTAIN FIRE DAMPER WITH INTEGRAL SLEEVE DYNAMIC QUICKSET RETAINING ANGLES.

DIFFUSER AND GRILLE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER AND MODEL NO.	THROW PATTERN	FACE MODULE	MAX NC	MAX SP	REMARKS
A	LAY-IN PERFORATED MODULAR DIFFUSER	NAILOR 4320M-24X24-L-AW-OB	4-WAY	24X24	20	0.1"	24"X24" FACE MODULE WITH A LAY-IN FRAME. STEEL CONSTRUCTION PERFORATED 3/16" HOLES ON STAGGERED 1/4" CENT. STANDARD WHITE BAKED ENAMEL FINISH. STEEL RADIAL SLIDING BLADE DAMPER WITH SCREWDRIVER ADJUSTMENT. THERMAFLEX FLEXFLOW ELBOW. THERMAFLEX S.S. SNAPLOCK CLAMP.
B	LAY-IN PERFORATED RETURN GRILLE	NAILOR 4360-24X24-L-AW-OB	RETURN	24X24	20	0.1"	24"X24" FACE MODULE WITH A LAY-IN FRAME. STEEL CONST. PERFORATED 3/16" HOLES ON STAGGERED 1/4" CENT. STEEL OPPOSED BLADE DAMPER. STANDARD WHITE ENAMEL FINISH

DUCT THICKNESS & REINFORCING SCHEDULE - * LOW PRESSURE DUCTWORK

* NOTE: LOW PRESSURE DUCTWORK SHALL BE DUCTWORK IN WHICH THE PRESSURE DOES NOT EXCEED 2" WATER GAUGE.					
GREATEST DUCT DIMENSION	STEEL DUCTS U.S. STANDARD GAUGE	ALUMINUM DUCTS B & S GAUGE	LONGITUDINAL SEAM	TRANSVERSE JOINT SMALLEST DIMENSION	TRANSVERSE JOINT GREATEST DIMENSION
12" OR LESS	24	22	PITTSBURGH OR ACME LOCK	DRIVE SLIP OR POCKET LOCK	PLAIN "S" SLIP OR POCKET LOCK OR BAR SLIP
14" THRU 18"	24	22	PITTSBURGH OR ACME LOCK	PITTSBURGH OR ACME LOCK	PITTSBURGH OR ACME LOCK
19" THRU 30"	24	22	PITTSBURGH OR ACME LOCK	DUCTMATE 25	DUCTMATE 25
31" THRU 60"	22	20	PITTSBURGH OR ACME LOCK	DUCTMATE 25 COMPANION ANGLES REINFORCED STANDING SEAM ANGLE REINFORCED POCKET LOCK.	DUCTMATE 25 COMPANION ANGLES REINFORCED STANDING SEAM ANGLE REINFORCED POCKET LOCK.



DUCT CONSTRUCTION STANDARDS

RECTANGULAR DUCTS			
MAXIMUM SIZE (INCHES)	STEEL (MINIMUM THICKNESS, NOMINAL)	ALUMINUM (MINIMUM THICKNESS, NOMINAL)	
THROUGH 12 13 THROUGH 30 31 THROUGH 54 55 THROUGH 84 OVER 84	0.028 INCH (24 GAGE, GALV.) 0.028 INCH (24 GAGE, GALV.) 0.034 INCH (22 GAGE, GALV.) 0.040 INCH (20 GAGE, GALV.) 0.052 INCH (18 GAGE, GALV.)	0.020 INCH (NO. 24 B&S GAGE) 0.025 INCH (NO. 22 B&S GAGE) 0.032 INCH (NO. 20 B&S GAGE) 0.040 INCH (NO. 18 B&S GAGE) 0.051 INCH (NO. 16 B&S GAGE)	
ROUND DUCTS			
MAXIMUM SIZE (INCHES)	SPIRAL SEAM DUCT	FITTINGS	
	STEEL (MINIMUM THICKNESS, NOMINAL)	STEEL (MINIMUM THICKNESS, NOMINAL)	
THROUGH 12 13 THROUGH 18 19 THROUGH 28 29 THROUGH 36 37 THROUGH 52	0.028 INCH (24 GAGE, GALV.) 0.028 INCH (24 GAGE, GALV.) 0.028 INCH (24 GAGE, GALV.) 0.034 INCH (22 GAGE, GALV.) 0.040 INCH (20 GAGE, GALV.)	0.028 INCH (24 GAGE, GALV.) 0.028 INCH (24 GAGE, GALV.) 0.034 INCH (22 GAGE, GALV.) 0.040 INCH (20 GAGE, GALV.) 0.052 INCH (18 GAGE, GALV.)	
REMARKS RECTANGULAR DUCTWORK 14" WIDE, 14" ROUND AND BIGGER SHALL BE PROVIDED WITH DUCTMATE 35 FLANGED JOINT FITTINGS. DUCT JOINTS LONGITUDINAL & TRANSVERSE SHALL BE SEALED INSIDE AND OUTSIDE WITH A HIGH PRESSURE SEALANT SIMILAR TO DUCTMATE FIBERSEAL.			

VARIABLE AIR VOLUME SINGLE DUCT
TERMINAL UNITS SCHEDULE

Unit Tags		TU-FLURO-EQP	Unit Tags	TU-FLURO-EQP
Quantity		1	Quantity	1
Model Number		VCCF10--	Model Number	VCCF10--
Extra	Unit model	VCCF (Cooling Only)	Radiated valve - 500 Hz - (dB)	40
	Primary inlet	10" (254mm)	Radiated valve - 1 kHz (dB)	34
	Primary EDB (F)	55	Radiated valve - 2 kHz (dB)	30
	Design cooling airflow (cfm)	950	Radiated valve - 4 kHz (dB)	28
	Min cooling airflow (cfm)	200	Radiated valve - NC	19
	Cooling inlet velocity (Vmin) APD @ cooling airflow (in H2O)	1742	Max inlet SP (in H2O)	0.75
		0.01	Downstream SP (in H2O)	0.25
	Operating weight (lb)	35		
	Connection side	Left		
	Unit Insulation	Dual wall with 1" insulation		
	Air Leakage Class	Standard Air Leakage		
	Valve heating airflow (cfm)	200		
	Unit LAT (F)	55		
	Trane Supplied Controls	Refer to "Customer Supplied" controls		
Notes	Disconnect Switch	Disconnect switch		
	Discharge valve - 125 Hz (dB)	66		
	Discharge valve - 250 Hz (dB)	57		
	Discharge valve - 500 Hz (dB)	53		
	Discharge valve - 1 kHz (dB)	48		
	Discharge valve - 2 kHz (dB)	47		
	Discharge valve - 4 kHz (dB)	43		
	Discharge valve - NC	16		
	Radiated valve - 125 Hz (dB)	52		
	Radiated valve - 250 Hz (dB)	51		

- NOTES:
1. Units to be Trane model, size, and configuration as indicated in schedule and on drawings
2. EMCS TO PROVIDE AND INSTALL zone temperature sensor
3. Provide unit-mounted disconnect
4. INTEGRATE TO ALC ENERGY MANAGEMENT SYSTEM

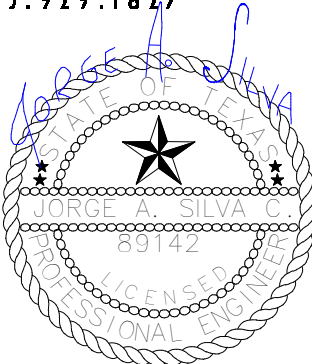
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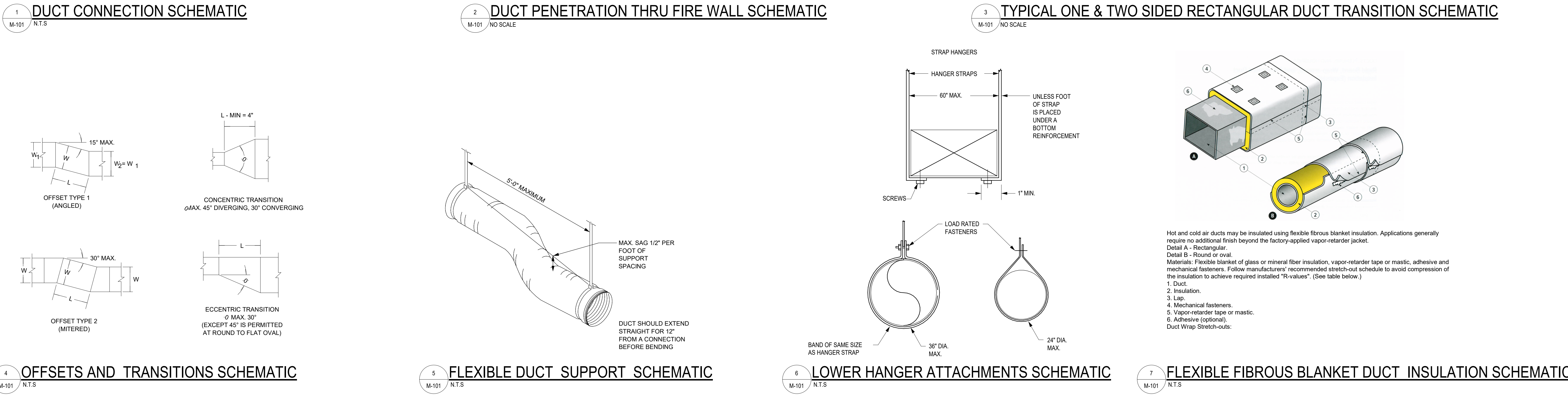
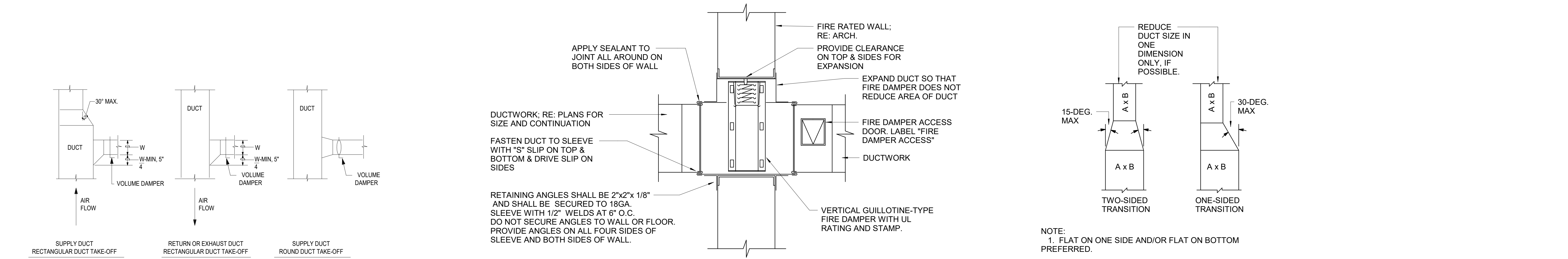


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RO WATER TREATMENT SYSTEM SCHEDULE										
PRE APPROVED EQUAL NEPTRONIC, DRISTEM, CAREL										
MARK	MANUFACTURER MODEL NUMBER	PRODUCT DATA								REMARKS
		INCOMING WATER	RO CAPACITY	ACTIVATED CARBON	SEDIMENTS	W LOAD	POWER CIRCUIT	MCA	MOCP	
RO-CT SCAN	CONDAIR 2800611	TAP WATER	5 GAL/HR	PREFILTER (1)	PRE-FILTER (2)	75	120/1/60	5A	15.0	H-18.5"xD-15.2"xW-9.8"
					- ANCHOR TO PARTITION ABOVE THE CEILING. - EXTEND FULL SIZE DRAIN OVER TO NEAREST LAVATORY TAIL PIECE.					

ELECTRIC HUMIDIFIER SCHEDULE						
MARK	MANUFACTURER AND MODEL NO.	ELECTRICAL			DUCT SIZE	REMARKS
		KW	V/P	AMP		
HUM-FLUORO	NEPTRONIC SKE4-NO6	6	208/3	20	14X12	18
		ANCHOR HUMIDIFIER TO THE PARTITION. BOTTOM OF UNIT SHALL BE AT LEAST 48". PROVIDE WITH DRAKE KOOLER. PROGRAM HIGH HIGH LIMIT DUCT STAT @ 75%. ROOM HUMIDITY SETPOINT 25%.				

COUNTRYMAN & CO.

ARCHITECTURE

108 SOUTH STANTON . THIRD FLOOR . EL PASO, TEXAS 79901 915.929.1827

UNIVERSITY MEDICAL CENTER OF EL PASO

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M-101



SUPPORT FLEXFLOW
ELBOW FROM STRUCTURE

INSULATED FLEXIBLE DUCT INSIDE
DIAMETER AS NOTED ON PLANS.
MAXIMUM LENGTH 5'-0"

SECURE FLEXIBLE DUCT TO DIFFUSER
NECK WITH S.S. CLAMP WITH WORM
ACTUATOR, TWO LAYERS OF DUCTAPE
AND DUCTMATE SELANT.
CONICAL SPIN-IN FITTING
WITH DAMPER

SUPPLY DUCT

EXTEND DAMPER OPERATOR
THROUGH INSULATION. SEAL
AROUND OPERATOR.

DAMPER

CEILING

CEILING DIFFUSER

SECURE FLEXIBLE DUCT
TO DIFFUSER NECK WITH S.S.
CLAMP WITH WORM ACTUATOR,
TWO LAYERS OF DUCTAPE AND
DUCTMATE SELANT.

INSULATION

FLEX HARNES (FLOW ELBOW);
INSTALL PER
MANUFACTURER'S
RECOMMENDATIONS

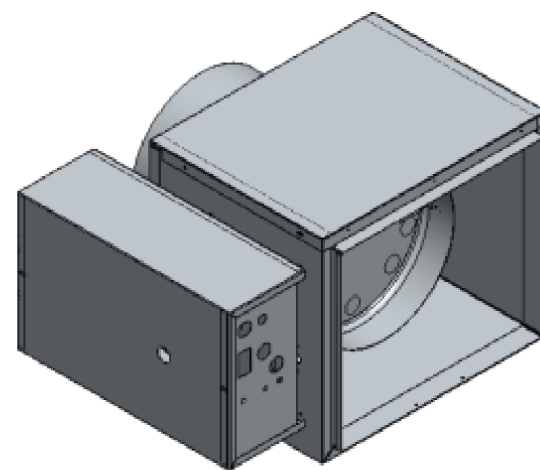
BLANKET
INSULATED
BACK PLATE

NOTES:

 **TRANE®** Job Name: UMC Fluoroscopy Equipment
Prepared For:
Unit Tag: TU-FLURO-EQP
Quantity: 1

Variable Air Volume Single Duct

Construction and Airflow	
APD @ cooling airflow	0.010 in H ₂ O
Cooling inlet velocity	1742 ft/min
Valve heating airflow	200 cfm
Connection side	Left
Unit Insulation	Dual wall with 1" insulation
Elevation	4000.00 ft
Operating weight	35.0 lb
Air Leakage Class	Standard Air Leakage



Customer supplied controls/No controls	Shaft only - with control enclosure
--	-------------------------------------

Disconnect Switch	Disconnect switch
--------------------------	-------------------

Note: Sound power level in dB re 1 pW. Acoustical data obtained in accordance with AHRI 880-11
 Note: Ducted Discharge noise criteria (NC) estimate is calculated using the following transfer function: AHRI 885-2008
 Note: Casing noise criteria (NC) estimate is calculated using the following transfer function: AHRI 885-2008.

4 VAV SUBMITTAL
M-102 N.T.S

MINIMUM PIPE INSULATION THICKNESS SCHEDULE

For Sl 1 inch = 25.4 mm, °C = (°F-32)/1.8.

- For piping smaller than 1-1/2 inches and located in partitions within conditioned spaces, reduction of these thicknesses by 1 inch shall be permitted (before thickness adjustment required in footnote b) but not to a thickness less than 1 inch.
- For insulation outside the stated conductivity range, the minimum thickness (T) shall be determined as follows:

$$T = (t + t_r) / (k - 1)$$
 where:
 T = minimum insulation thickness,
 t = actual outside radius of pipe,
 t_r = insulation thickness listed in the table for applicable fluid temperature and pipe size,
 K = conductivity of alternate material at mean rating temperature indicated for the applicable fluid temperature (Btu · in/h · ft² · °F) and
 k = the upper value of the conductivity range listed in the table for the applicable fluid temperature.
- For direct-buried heating and hot water system piping, reduction of these thicknesses by 1-1/2 inches (38 mm) shall be permitted (before thickness adjustment required in footnote b) but not to thicknesses less than 1 inch (25 mm).



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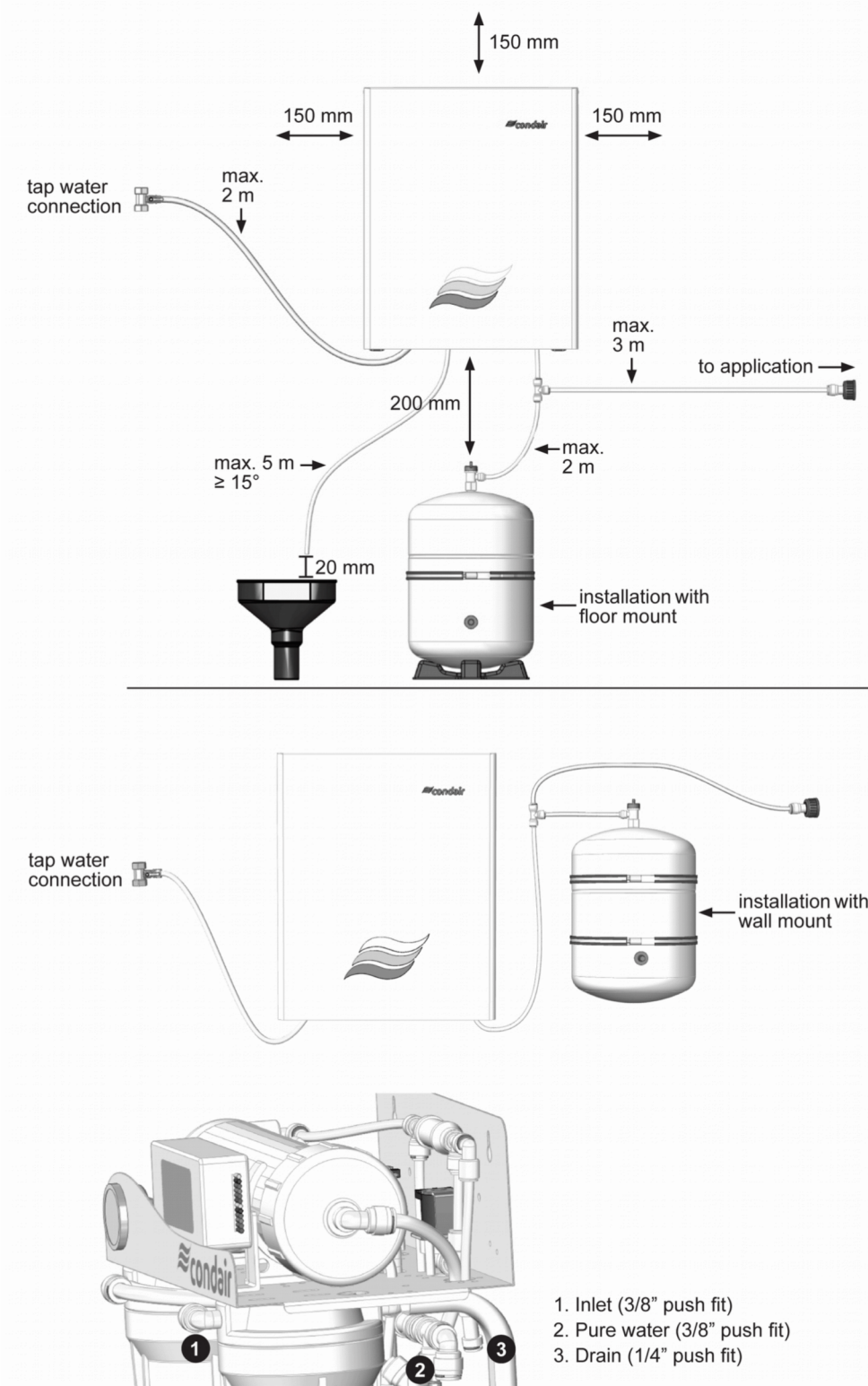
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A3 - RO (2600611) Schematic



A4 - RO (2600611) Shop Drawing

Technical parameters	Unit	Value
Voltage / frequency, protection	VAC / Hz	110-240/50-60; 5Awith ground fault circuit interrupter ^(*)
Power Rating	W	75
Incoming water quality		Tap water
Incoming conductivity (see page 12)	µS/cm	150-1000
Incoming TDS	ppm	95-700
Incoming pressure (see page 12)	bar / psi	0.6-3.5 / 8-50 ^(**)
max. permissible operating pressure	bar / psi	8.0 / 116
Incoming water temperature	°C / °F	5-25 / 41-77 ^(**)
RO permeate capacity @ 5° C	l/h / gal/h	20 / 4.4
Salt rejection	%	95-98
Water efficiency	%	≈ 50/50
Output pressure	bar / psi	3-6 / 43.5-87.0
Prefilter 1		Act. Carbon
Prefilter 2	Micron	5
Low pressure switch trigger	bar / psi	0.6 / 8
High pressure switch trigger	bar / psi	2.2-3.0 / 32.0-43.5
Tank sizes and types	l / gal	8 / 2.5 Pressure tank 12 / 3.8 Flow through tank 18 / 6 Pressure tank
Noise	dBA	<50
Connection inlet		JG 3/8" push fit
Connection pure water		JG 3/8" push fit
Connection drain		JG 1/4" push fit
Outer dimensions RO (HxLxW)	mm / inch	465 x 355 x 215 / 18.3 x 14.0 x 8.5
Outer dimensions hood (HxLxW)	mm / inch	471 x 386 x 249 / 18.5 x 15.2 x 9.8
Outer dimensions tank 8 l / 2.5 gal DxH	mm / inch	233 x 330 / 9.2 x 13.0
Outer dimensions tank 12 l / 3.8 gal DxH	mm / inch	386 x 201 / 15.2 x 7.9
Outer dimensions tank 18 l / 6 gal DxH	mm / inch	279 x 425 / 11.0 x 16.7
Weight RO	kg / lbs	8.5 / 18.7
Weight hood	kg / lbs	4.0 / 8.8
Weight tank 8 l / 2.5 gal	kg / lbs	2.3 / 5.1
Weight tank 12 l / 3.8 gal	kg / lbs	5.3 / 11.7
Weight tank 18 l / 6 gal	kg / lbs	4.1 / 9.0

^(*) The Condair RO-H is energized by 24 VDC from an UL listed class 2 power source.
^(**) If the pressure exceeds 3.5 bar (50 psi), it is mandatory to install a pressure reducer upstream of the RO-H in the supply line, which is set to 3.5 bar (50 psi) max. pressure. A suitable pressure reducer is available from Condair (2600230).
^(**) The RO-H may only be connected to a cold water line.

Wall Mounting

CAUTION: Risk of malfunction. The humidifier must be placed at an equal level.
CAUTION: Risk of overheating. Do not block the ventilation openings located on the cabinet.
Before proceeding, check the strength of the chosen support or wall (brick, concrete, stud partition wall) on which the humidifier will be mounted. See the Dimensions and Weight section (page 7) to know the weight of the unit.

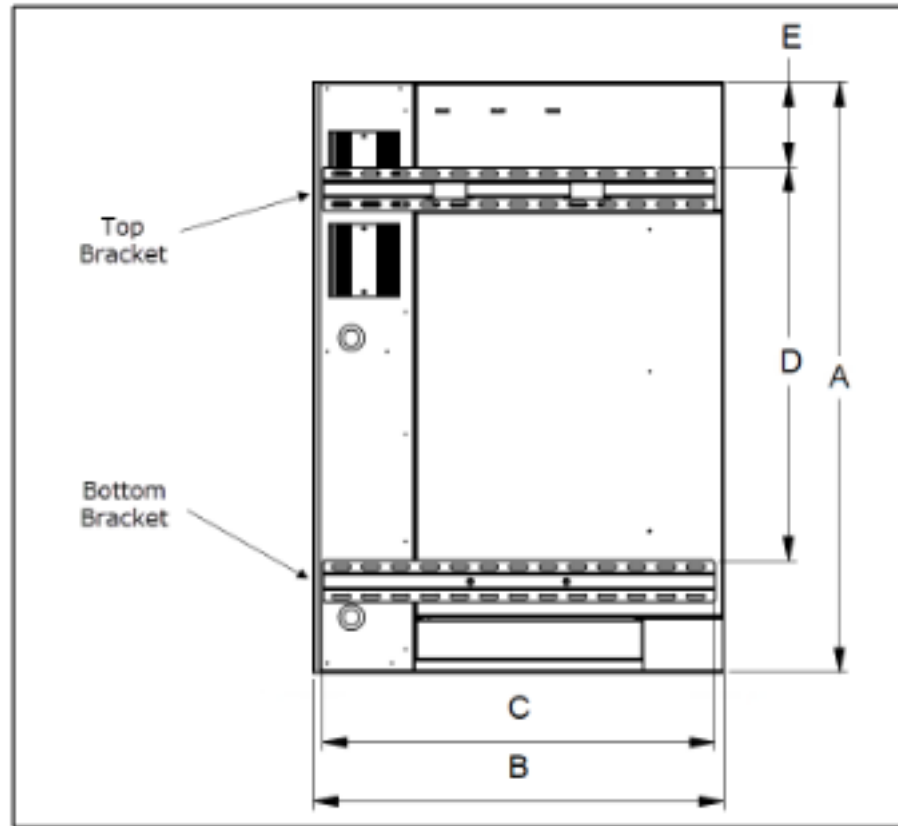


Illustration 9 - Mounting Bracket Positioning

Table 7 - Positioning Lines of Mounting Brackets

Model	Dimensions (inch) [mm]				
	A	B	C	D	E
SKE4-N02 SKE4-N04 SKE4-N06	23 [584]	19 ¼ [492]	18 ¾ [467]	18 ¾ [467]	7/8 [22]
SKE4-N10 SKE4-N14 SKE4-N16 SKE4-N20 SKE4-N30	32 [813]	22 ¼ [565]	21 ¼ [540]	21 ¼ [540]	7/8 [22]
SKE4-N20 L SKE4-N27 SKE4-N32 SKE4-N40 SKE4-N50 SKE4-N60	32 [813]	33 ¼ [845]	28 ¾ [718]	21 ¼ [540]	7/8 [22]

Note: Models SKE4-N30X to N100 cannot be wall mounted and must be properly secured to the ground using the adjustable legs.

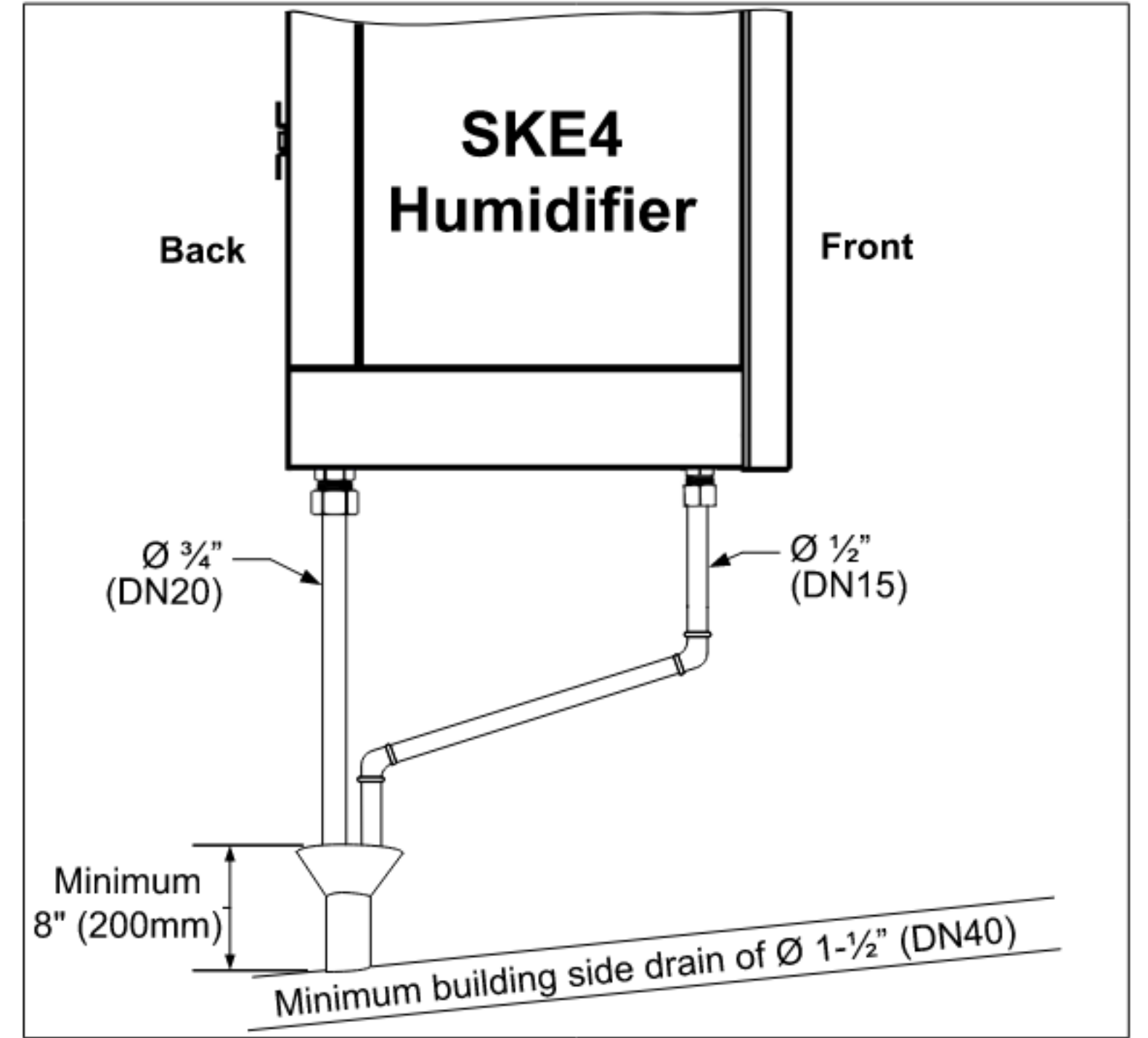


Illustration 39 - Plumbing Connection to Open Drain

13.04.2023

Legent CT Scan rm

Page 8

13.04.2023

Legent CT Scan rm

Page 9

2

M-103 12" = 1'-0"

HUMIDIFIER MOUNTING BRACKET POSITIOING

3

M-103 12" = 1'-0"

HUMIDIFIER PLUMBING CONNECTION TO OPEN DRAIN

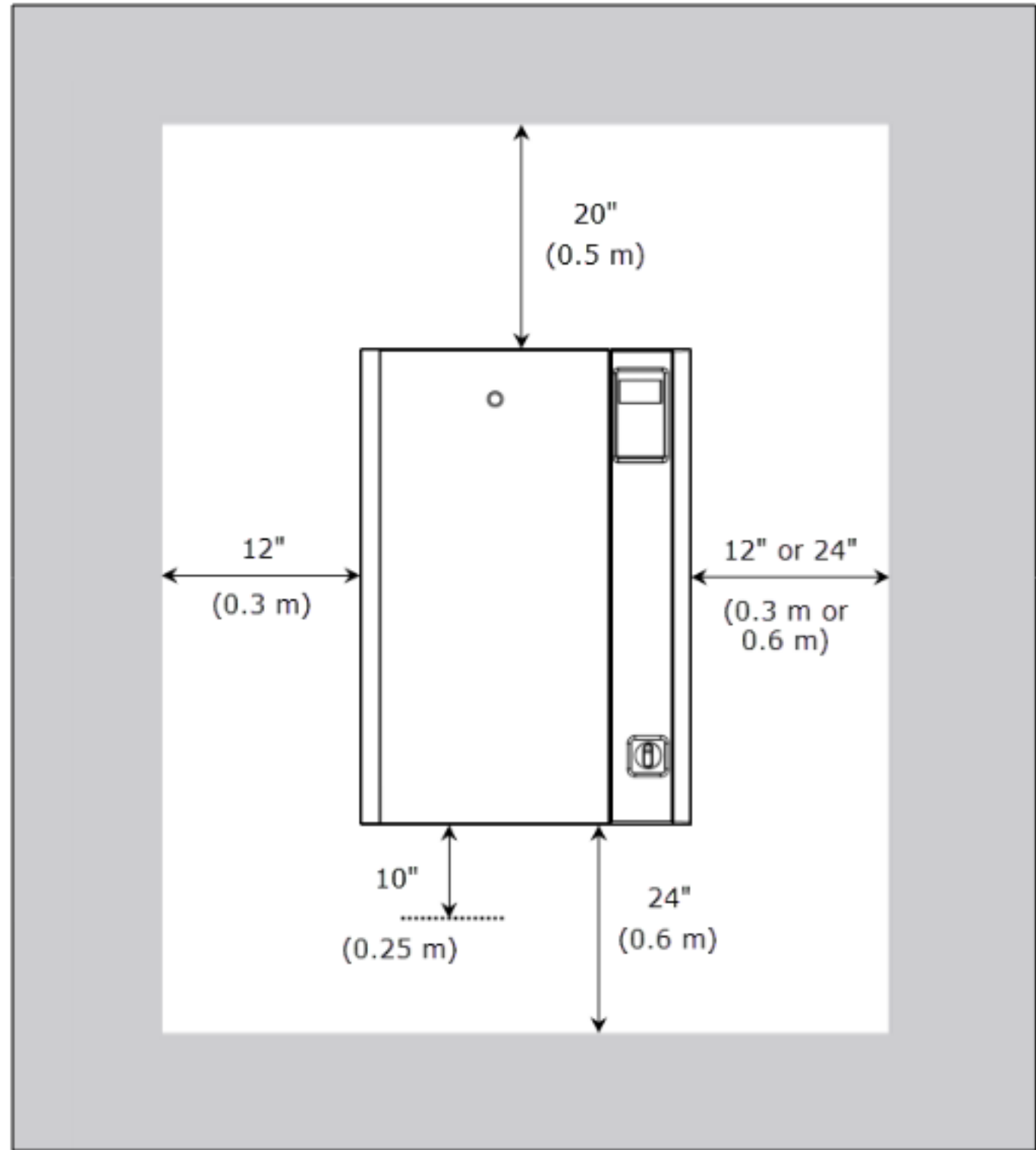


Illustration 8 - Positioning the Humidifier
HUMIDIFIER POSITIONING SCHEMATIC

5

M-103 12" = 1'-0"

HUMIDIFIER WATER CONNECTION

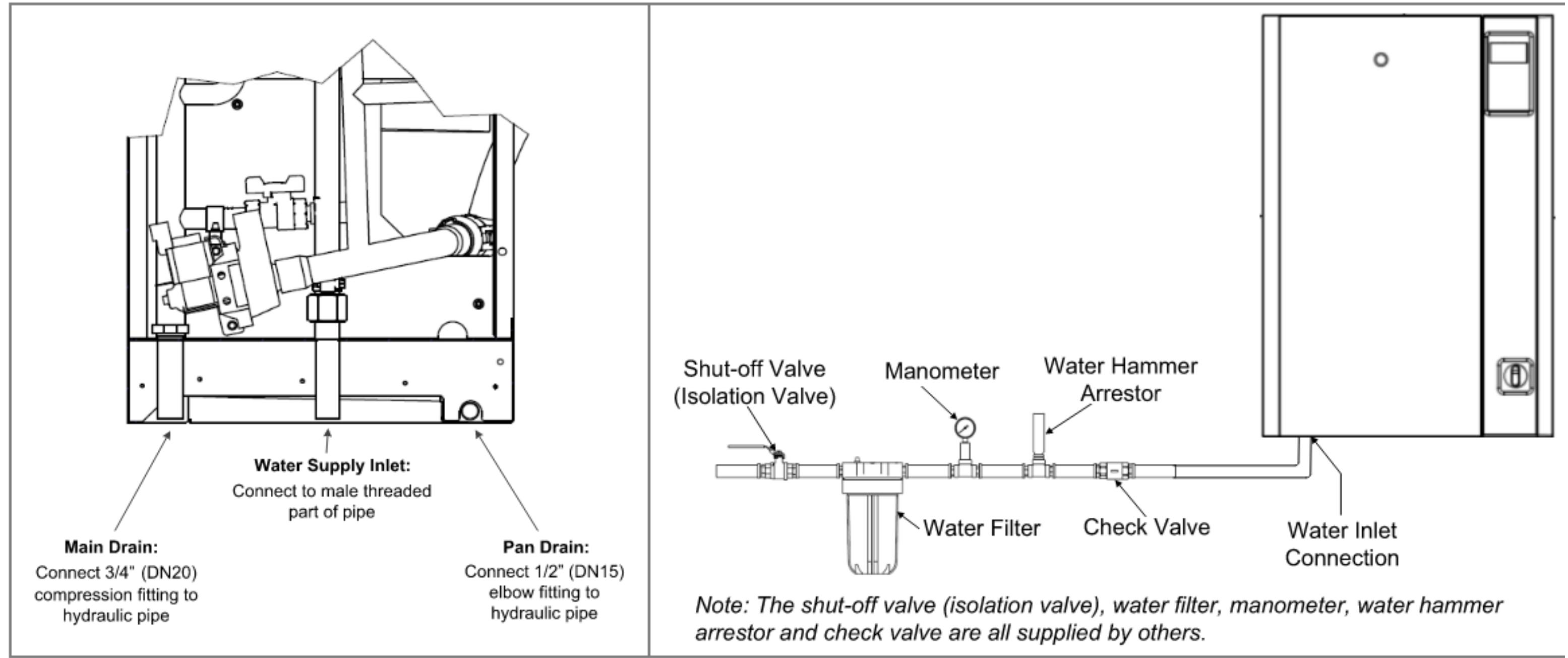


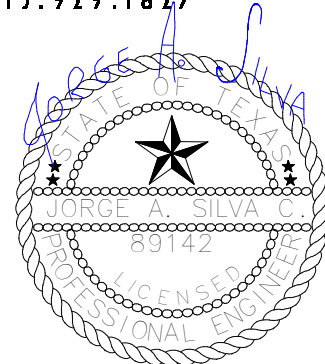
Illustration 38 - Water Supply and Drain Connections

Countryman & Co.
Architecture

108 SOUTH STANTON . THIRD FLOOR . EL PASO, TEXAS 79901 915.929.1827



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M-103



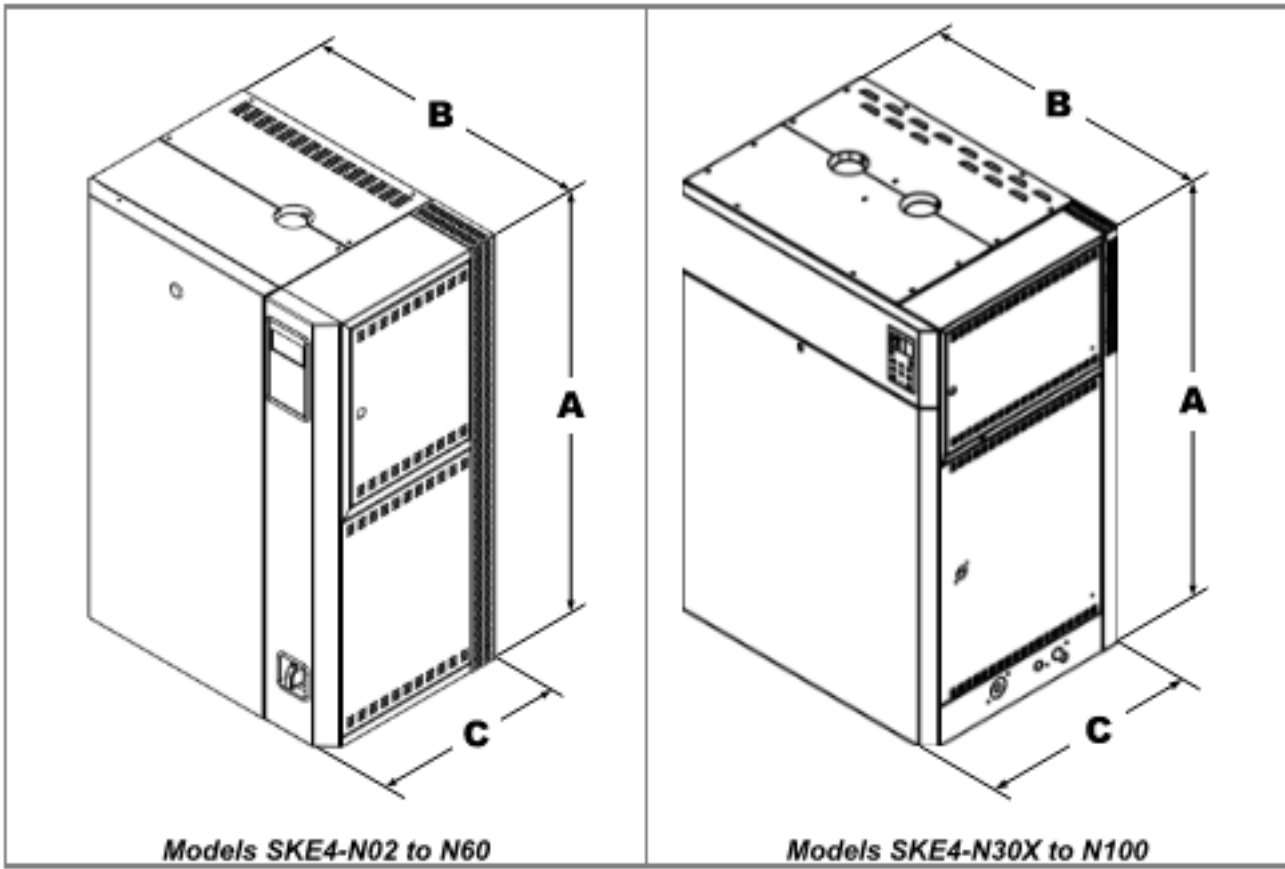
Output and Power Consumption - Humidifier

Table 6 - Output and Power Consumption

Model	Steam	Power (kW)	Consumption								Steam Output	
	Capacity (lb/hr) [kg/hr]		Amperage (A)								Qty	Diameter (inch) [mm]
SKE4-N02	6 [2.7]	2	17	8.5	10	-	4.5	-	3.5	-	1	1 3/8 [35]
SKE4-N04	12 [5.5]	4	-	17	19	11.5	8.5	5	7	4	1	1 3/4 [35]
SKE4-N06	18 [8]	6	-	26	30	16.5	13	7.2	10.5	6	1	1 3/8 [35]
SKE4-N10	30 [14]	10	-	-	-	28	-	12	-	10	1	1 3/8 [35]
SKE4-N14	40 [19]	13.5	-	-	-	38	-	16.5	-	13.5	1	1 3/8 [35]
SKE4-N16	48 [21.8]	16	-	-	-	45	-	19.5	-	16	1	2 [51]
SKE4-N20	60 [28]	20	-	-	-	-	-	25	-	20	1	2 [51]
SKE4-N30	90 [41]	30	-	-	-	-	-	36	-	30	1	2 [51]
SKE4-N20 L	60 [28]	20	-	-	-	56	-	-	-	-	1	3 [76]
SKE4-N27	80 [37]	27	-	-	-	75	-	-	-	-	1	3 [76]
SKE4-N32	96 [44]	32	-	-	-	89	-	-	-	-	1	3 [76]
SKE4-N40	120 [56]	40	-	-	-	-	-	50	-	40	1	3 [76]
SKE4-N50	150 [68]	50	-	-	-	-	-	60	-	50	1	3 [76]
SKE4-N60	180 [82]	60	-	-	-	-	-	72	-	60	1	3 [76]
SKE4-N30 X	90 [41]	30	-	-	-	83.4	-	-	-	-	1	3 [76]
SKE4-N40 X	120 [56]	40	-	-	-	111	-	-	-	-	1	3 [76]
SKE4-N70	210 [95]	70	-	-	-	-	-	84	-	70	1	3 [76]
SKE4-N80	240 [108]	80	-	-	-	-	-	96	-	81	2	3 [76]
SKE4-N90	270 [122]	90	-	-	-	-	-	109	-	91	2	3 [76]
SKE4-N100	300 [136]	100	-	-	-	-	-	120	-	96	2	3 [76]



SKE4-N Steam Humidifier Installation Instructions and User Manual



Dimensions and Weight

Table 1 - Dimensions and Weight

Model	Dimensions of the Cabinet (inch) [mm]			Weight (lb) [kg]	
	A	B	C	Empty	Full
SKE4-N02 SKE4-N04 SKE4-N06	23 [584]	19 1/4 [492]	13 1/4 [352]	65 [29]	79 [36]
SKE4-N10 SKE4-N14 SKE4-N16 SKE4-N20 SKE4-N30	32 [813]	22 1/4 [565]	15 [381]	98 [44]	143 [65]
SKE4-N20 L SKE4-N27 SKE4-N32 SKE4-N40 SKE4-N50 SKE4-N60	32 [813]	33 1/4 [845]	15 [381]	135 [61]	225 [102]
SKE4-N30 X SKE4-N40 X SKE4-N70 SKE4-N80 SKE4-N90 SKE4-N100	47 3/4 [1213]	33 [838]	24 3/4 [619]	320 [145]	444 [200]

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Page | - 7 -

Installation

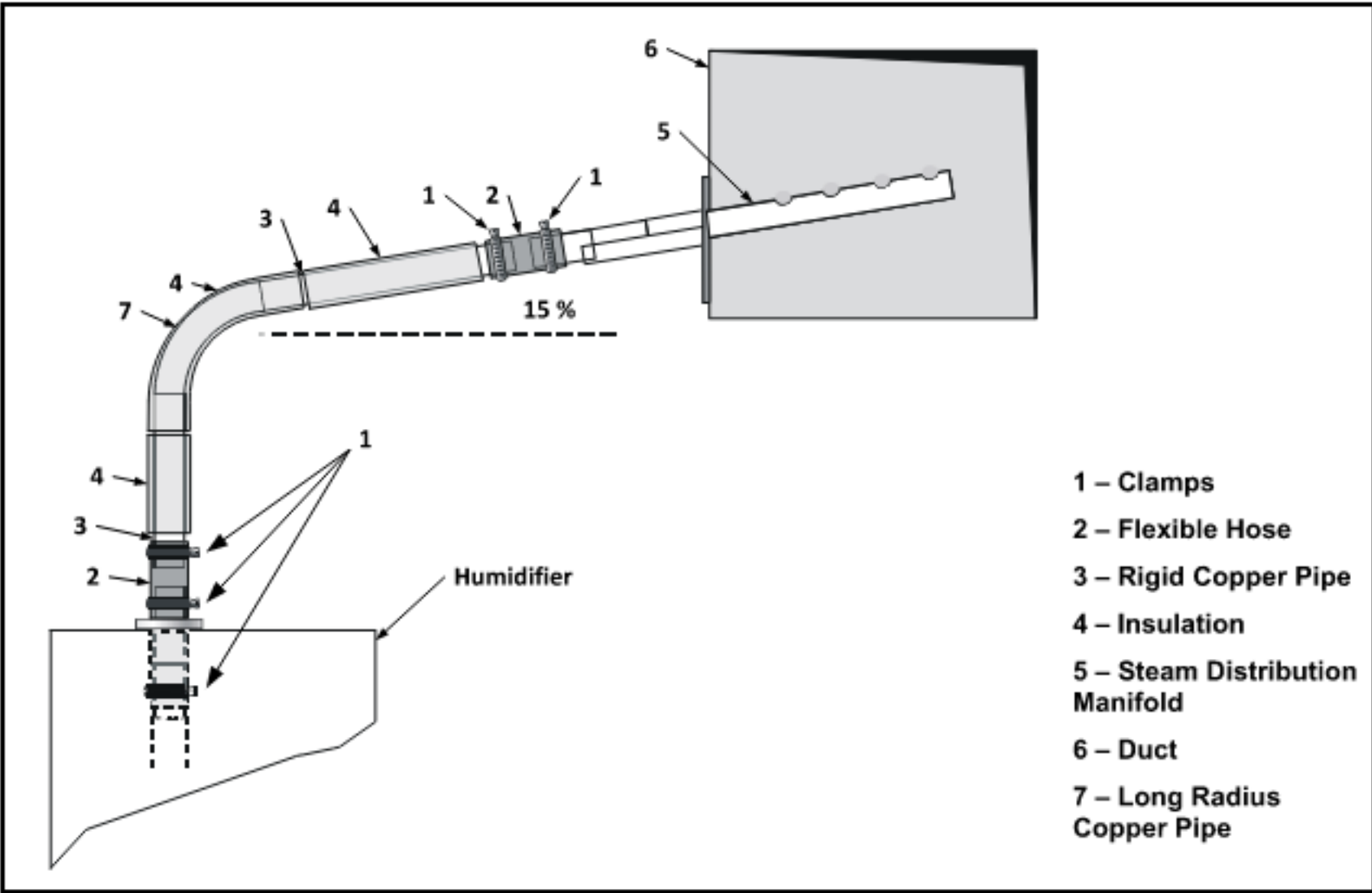


Illustration 30 - Steam Output Connections: Typical Installation

General Recommendations

Follow these general installation rules in order to avoid any restrictions inside the distribution pipes and the humidifier evaporation chamber, as well as condensation accumulation, which can lead to severe water accumulation in the duct or a humidifier malfunction.

CAUTION: Risk of malfunction. Avoid kinks, sags and areas where condensate can be trapped.

- Ensure that the slope of the steam hose (rigid or flexible) is not less than 15% (7 horizontal lengths for 1 vertical length), in order to ensure continuous drainage of condensation back to the humidifier or to a steam trap.
- Use flexible steam hoses for short runs (up to 16 feet or 5 m) or for interconnecting between the rigid pipe runs. Ensure that there are no kinks and that the hose does not sag when using flexible tubing. Do not use flexible hoses for curved portions of the steam line.
- Determine the total steam line for insulated hard piping based on the capacity of the humidifier, such as one equivalent foot for each lb/hr capacity of the humidifier (0.67 m for each kg/hr) with a maximum of 50 feet (15 m). Consult factory for longer steam line runs.
- If you are using a rigid copper pipe, use insulation to diminish condensate build-up.

1 HUMIDIFIER OUTPUT AND POWER REQ M-104 12" = 1'-0"

2 HUMIDIFIER STANDARD UNIT DIMENSIONS M-104 12" = 1'-0"



Placement of Steam Pipe in Horizontal Duct

1 3/8" (35mm) Diameter Pipe

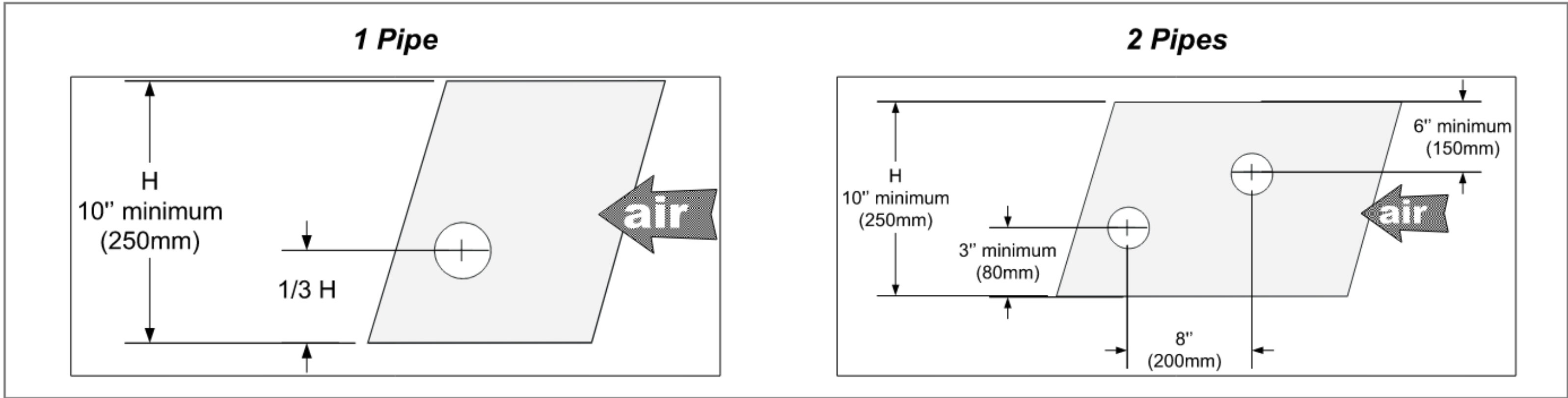


Illustration 25 - 1 3/8" (35 mm) Diameter Pipe Placement: Horizontal Duct

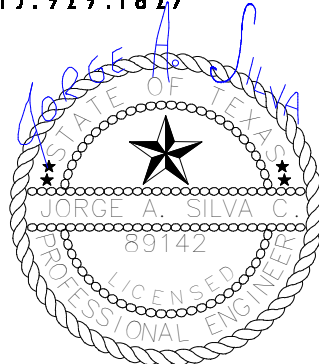
4 HUMIDIFIER STEAM PIPE HORIZONTAL DUCT M-104 12" = 1'-0"

Countryman & Co. Architecture

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UNIVERSITY
MEDICAL CENTER
OF EL PASO



DRAWN BY: AEG
PROJECT NO: 2023-18
ISSUED: SEPTEMBER 26, 2023

REVISION SCHEDULE:

NO.	DATE	DESCRIPTION

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SHEET TITLE:

MECHANICAL SUBMITTAL

100% CONSTRUCTION DOCUMENTS

M-104

ABOVE THE CEILING WORK PERMIT
Fire Walls and/or Smoke Barriers

POLICY

The Life Safety, Above the Ceiling Work Permit Policy for all University Medical Center Facilities establishes criteria to minimize fire/smoke wall damage (penetrations) and any above ceiling life safety non-compliant conditions posed by construction and other installation activities.

This policy assures the only UMC approved method of accomplishing this work by requiring the use of certified and/or professionally trained installers using U.L. listed assemblies, or an engineered judgment approved by the manufacturer for each specific penetration or application. Proof of a valid fire stopping manufacturer's training card or certificate must be presented at the moment of requesting an "above ceiling permit" unless the work does not involve penetrations or any work the compromises the rating of the wall. For example, inspections, visual, localized repairs or any work that protrude any fire smoke rated membranes. If the contractor does not have a manufacturer's training card or certificate, then a company such as ACO or McNeill and Sons must be used or an approved equal

The manufacturers' product of choice for UMC fire stopping will be STI™ or an approved equal under the Engineering Director's approval and all fire stopping activities must be done according to their manufacturers recommendations.

This policy applies to all work that requires opening ceiling tiles in the hospital, clinics, and all other service buildings owned or operated by University Medical Center of El Paso.

RESPONSIBLE

Engineering Department
IT department
Security Department
Biomed Department
All Hospital Departments
Safety Department
Hired Outside Contractors and Vendors

The Engineering Department will perform that the final verification of all work above the ceiling is in compliance with the Life Safety Code (NFPA 101 2012). Additionally, each UMC's contracting department (IT, Biomed, Engineering, Security) will verify and sign the work permit under interim inspection in the form that any work performed by internal and external personnel related to penetrations fire / smoke rated walls specifically seal the penetrations for both new and existing work in accordance to the Manufacturer's instructions to meet the applicable UL fire stopping system.

PROCEDURE

- Above-the-Ceiling Permit:** Contract or in-house personnel (see exception on point #2) engaging in work that will require opening ceiling tiles whether there will or will not be penetrations of smoke or fire rated partitions must obtain an "Above the Ceiling Work Permit" in the Engineering office in accordance to the stipulations of this policy. This permit must be completed and signed by the contractor and an Engineering Department representative prior to initiation of the work.
 - The UMC Associate, manager, or contractor's representative responsible for performing or supervising the performance of construction, demolition, installation, modernization, or

ABOVE THE CEILING WORK PERMIT
Fire Walls and/or Smoke Barriers

- renovation work that requires penetration of assemblies and walls serving as fire or smoke barriers shall complete a copy of the UMC Permit for Above the Ceiling Work regardless of location of penetration on any rated assembly (above or below ceiling). This permit shall include a marked up architectural plan of the area(s) affected indicating the location of all planned penetrations of walls or assemblies serving as fire or smoke barriers.
- The UMC Associate, department, or contractor will display a copy of the completed Work Permit on the door or other close proximity to the area for the full duration of the project.
- Exception, UMC in house personnel is allowed to open ceiling tiles without a permit only if all the following circumstances apply;
 - Emergencies or inspections.
 - Only one ceiling tile can be open at a time (under extreme emergencies more than one tile will be allowed if safety is compromised by not doing it so)
 - No work is going to be performed on fire rated walls or barriers that will result in penetrations.
 - Inspection or emergency repair work does not take more than 30 minutes on the same opening.
 - The ceiling tile opening cannot be left unattended at any moment for any amount of time
 - Note, these points do not exclude any applicable infection control measures.
 - Firewall Penetrations:** Routing of wiring, piping or conduit may require drilling through smoke or fire walls above the ceiling. When this occurs, all wires, conduits and / or systems that penetrate the rated assembly must be marked with an identification card or tag provided by the contractor as part of their contract responsibilities but previously approved by Engineering.
 - The penetrations of wiring, piping, etc. will be identified with an approved fire stopping manufacturer penetration UL system tags on both sides of the penetration to include the following:
 - Product Installed
 - Date of Installation
 - Installing Contractor
 - Contractor Phone() _____
 - UL System #
 - The installed system runs to include cable/conduit, communication wire, electrical conduits, duct work; sprinkler, groups of cable ran simultaneously can be labeled as one etc. must be tagged on both sides of the penetration and every 30 feet with the following information on a previously approved identification card or tag by Engineering or with the appropriate color scheme denoting vendor as directed by the contracting party
 - Company name
 - Company installer name
 - Date M/DD/Y
 - UMC contracting department
 - UMC contracting department contact name

ABOVE THE CEILING WORK PERMIT
Fire Walls and/or Smoke Barriers

- All penetrations must be resealed with the proper **RED** smoke or fire barrier seal materials prior to the interim inspection and final inspection by an Engineering Department associate at the place of work execution. It is the responsibility of the contractor to seek the interim and final physical / site inspection signatures by a UMC Engineering associate at the fire penetration sites, have the ladder ready for inspections and be ready to facilitate the field inspection before the end of the regular work day and before turning the "above ceiling permit" for final approval signature and close out of the permit document at the main engineering office (4 signatures total).
 - It is the responsibility of all contractors, subcontractors, vendors, all departments and employees working or providing services at UMC to understand and adhere to this 'Above the Ceiling Work Permit and Policy while working at UMC in any manner that involves any type of penetration to a fire wall or smoke partition. The project will not be granted final approval until the work has been inspected by the designated field inspections Engineering Associate and the permit has been approved as completed by the assigned Engineering Department supervisor.
 - It is the responsibility of all contractors, subcontractors, vendors and in-house departments to provide the Engineering Department documentation in the form of manufacturer specifications or a Safety Data Sheet confirming that the material used to seal penetrations is an approved fire stopping material in accordance to this policy.
 - No painting is allowed to be applied on top of, nor cover of fire rated material, unless previously requested and approved by Engineering in writing.
 - The correct fire rated material shall be used for the correct application in agreement to the manufacturer recommended system and it's approved by Engineering Department.
 - If the contractor decides to use an existing penetration, all the existing fire rated material must be removed completely and a new fire rated system must be applied.
 - Using two different materials to seal the same penetration will not be allowed (ie; elastomeric vs intumescent)
 - Using two different colors to seal the same penetration will not be allowed.
 - Using two different types of manufacturers will not be allowed for the same penetration
 - For IT Data, Security Wiring, Biomed and Facilities Control Cable, it will not be allowed to run the wires straight through the wall or utilizing an existing through the wall cable penetration which does not have a conduit, grommet or easy patch.
 - The only approved installation for IT Data, Security Wiring, Biomed and Facilities Control Cable is as follows
 - Manufacturer fire rated grommets
 - Metal conduit sleeve minimum 4 inch conduit length on each side with intumescent seal from conduit to wall with ½ inch annular space and ½ inch fire patch intumescent material penetration and fire putting with ½ inch penetration on cable end on each side putting wire on center of fire putty
 - Manufacturer easy patch STI or approved equal- Final Approval:** When the work has been completed and all smoke and fire penetrations have been properly resealed, an inspection of the work area will be performed and the permit will be signed by an Engineering Department supervisor, indicating final approval.

ABOVE THE CEILING WORK PERMIT
Fire Walls and/or Smoke Barriers

- For outside contractors/vendors, final approval of the Above-the-Ceiling Work Permit is required before payment can be authorized.
 - To comply with point 6s, each department Director contracting services requiring work above the ceiling, shall send the Director of Engineering a copy of the Final Completed Above-the-Ceiling Work Permit with a copy of invoices of services. The Director of Engineering will then sign off on the invoice for payment approval for all contractors or vendors. (The Director of Engineering or designated engineering manager will only be signing off on the Above-the Ceiling Work Permit process not on the actual vendor provided services). The departments contracting above the ceiling services (IT Data, Security Wiring, Biomed and Facilities Control Cable) shall not approve any invoice payments, unless the invoice is signed off by the Director of Engineering.
 - Prior to the start of each project, outside contractors and vendors are responsible to understand that any **unsealed** penetration to a fire wall or smoke barrier, open boxes, cables touching any part of the fire sprinkler system, and cables lying on the ceiling at the conclusion of the project will be the responsibility of the contractor to remediate the necessary repairs within 48 hours. A \$150.00 charge will be assessed for each incident that is not repaired within 48 hours and repaired by UMC.
- All fire stopping will be done according to the manufacturers' recommendation following strict adherence to the following sections. Sections will available upon request at the Engineering Department.
 - Section 07 84 00 Firestopping
 - Section 07 84 13 Through-penetration firestopping
 - Section 07 84 43 Fire resistive joint systems
 - Section 07 84 53 Building perimeter firestopping
 - Section 22 00 00 Firestopping for plumbing
 - Section 26 00 00 Through-penetration firestopping for electrical systems
 - Section 27 00 00 Firestopping for communications
 - Attachment A Sample Firestopping Samples
 - Sprinkler Systems and Medical Gas Piping
 - Sprinkler, fire suppression and Medical Gas piping or their supports shall not be subjected to external loads. Nothing that is not part of the sprinkler system should be attached. Nothing above, below or on the sides of the sprinkler system, to include the supports should be touching or near with-in ¼", the sprinkler, fire suppression and Medical Gas system piping or any of its supporting members. All contractors will be required to have a permit at all times working above the ceiling.

ABOVE THE CEILING WORK PERMIT
Fire Walls and/or Smoke Barriers

- All UMC Departments requiring to contract vendors or are authorized by the nature of their service to access above the ceiling to install, modify, alter any system, shall be responsible to manage their own contactors and associates to comply with this policy. The departments are also responsible to include the provisions of this policy in their contract documentation and in house training requirements to enforce full compliance with the provisions and intent of this policy.
- Engineering organize weekly rounds to survey above ceiling life safety compliance conditions and will report any non-compliant findings to the departments which systems are found not be installed in accordance to this policy.
- Any UMC department contracting vendor services requiring to work above ceiling are responsible to track their work, ensure contractor (associate) understanding of intent and full adherence to the provisions this policy. The UMC department responsible of contracting the services found to be deficient shall actively resolve with their own means and funds any non-compliant conditions found and reported by Engineering Department as a result of the weekly EOC rounds or other incidental survey.

ABOVE THE CEILING WORK PERMIT
Fire Walls and/or Smoke Barriers

APPROVAL:

Chief Operating Officer	Date
Director of Engineering	Date
Environment of Care Committee Chairperson	Date

Review History:	Revision History:
08/06	07/11
02/10	01/18
02/13	
01/15	

ABOVE THE CEILING WORK PERMIT
Fire Walls and/or Smoke Barriers

University Medical Center of El Paso			
YY / MM / DD / HHMM			
Above the Ceiling Work Permit #		Fire Stop Installer Certificate ID #:	
Name:		Date:	
Department/Company:			
Phone#:		Fax#:	
UMC Department Requesting the Work:			
UMC Contact Name:		Phone#:	
COMPLETE ILSM ASSESSMENT FOR EACH ATC PERMIT ISSUED			
System Category to be Installed:			
<input type="checkbox"/> Communication <input type="checkbox"/> Fiber Optic			
<input type="checkbox"/> Security <input type="checkbox"/> Door Controls <input type="checkbox"/> Fire Alarm <input type="checkbox"/> Telephone <input type="checkbox"/> Electric			
<input type="checkbox"/> HVAC <input type="checkbox"/> Television <input type="checkbox"/> Other			
How will Work Be Supported?			
<input type="checkbox"/> Wall <input type="checkbox"/> Conduit Rack			
<input type="checkbox"/> Existing Casework <input type="checkbox"/> Existing CableTray <input type="checkbox"/> New Cable Tray <input type="checkbox"/> Other			
Will any penetrations be made in walls, roof or ceiling? <input type="checkbox"/> YES <input type="checkbox"/> NO			
If Yes, all penetrations in the walls, roof or ceiling will be properly sealed with approved STI™ fire stopping as per manufacturer instructions for fire resistant caulking prior to final project approval.			
Product of choice : All fire proofing must be done using STI™ fire stopping or an approved equal under Engineering Director's approval or Director's designated project specific manager Documentation (Mfg. : SDS) of approved fire resistant RED caulking provided. <input type="checkbox"/> YES <input type="checkbox"/> NO			
Start Date:		Time:	
Completion Date:		Time:	
Authorization to Proceed:		Date:	
Signature (Engineering Supervisor)		Date:	
Interim Inspection:		Date:	
Final Inspection:		Date:	
Final Approval:		Date:	
Signature (Engineering Supervisor)		Date:	

The completed "Above The Ceiling Work Permit" shall be displayed at the site of the work being performed for the duration of the project.
ORIGINAL MUST BE RETURNED UPON COMPLETION OF THE JOB WITH FINAL INSPECTION SIGNATURE

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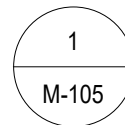


DRAWN BY: AEG
PROJECT NO: 2023-18
ISSUED: SEPTEMBER 26, 2023

REVISION SCHEDULE:

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ABOVE THE CEILING WORK PERMIT

12" = 1'-0"

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SHEET TITLE:

MECHANICAL SCHEDULES, LEGEND, GEN. NOTES

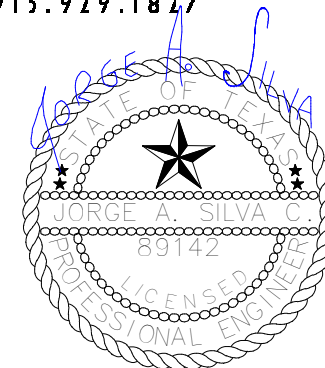
100% CONSTRUCTION DOCUMENTS

M-105

1. BALANCE DIFFUSER TO LISTED AIRFLOW.
2. VAV UNIT SHALL REMAIN UNDISTURBED.
3. ZONE SENSOR TO REMAIN UNDISTURBED.
4. CEILING DIFFUSER TO REMAIN IN PLACE. REFER TO IMPROVEMENT PLAN FOR ADDITIONAL INFORMATION.
5. CONNECT 10" SUPPLY DUCT TO EXISTING MEDIUM PRESSURE DUCT MAIN. SEAL AIR TIGHT AS REQUIRED.
6. CONNECT NEW RETURN DUCT TO EXISTING MAIN. PROVIDE WITH BALANCING DAMPER AND SEAL AIR TIGHT AS REQUIRED.
7. INSTALL VAV PER MANUFACTURERS SCHEMATIC. INLET DUCTWORK MUST HAVE AT LEAST 3 DUCT DIAMETERS STRAIGHT BEFORE MAKING CONNECTION TO TERMINAL UNIT.
8. RELOCATE CEILING DIFFUSER AS INDICATED ON IMPROVEMENT PLAN.
9. CONNECT RELOCATED CEILING DIFFUSER TO BRANCH DUCT AS REQUIRED.
10. PROVIDE AND INSTALL GROUND MOUNTED OVERFLOW PAN UNDER SIEMENS TUBE COOLING UNIT. MINIMUM DIMENSION REQUIRED 2Wx3Lx3H. FABRICATE USING 16 GA SHEET METAL WITH WELDED JOINTS.
11. PROVIDE AND INSTALL NEW ELECTRIC HUMIDIFIER ABOVE THE CEILING SECURE FROM THE DECK AS REQUIRED. EXTEND FULL SIZE STEAM LINE TO SERVE DUCT DISPERSION TUBE. DRAIN LINE SHALL EXTEND TO SOILED UTILITY ROOM SINK. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. PROVIDE WATER TEMPERING DEVICE FOR STEAM CONDENSATE TO REDUCE TEMPERATURE DOWN TO 140F. REFER TO SCHEMATIC PLANS FOR ADDITIONAL INFORMATION.
12. CONNECT 1/2" COLD WATER LINE SERVING RESTROOM. PROVIDE ISOLATION BALL VALVE AND 1/2" FIBERGLASS INSULATION.
13. EXTEND WATER LINE DOWN TO NEW RO SYSTEM. EXTEND DRAIN LINE TO SOILED UTILITY ROOM SINK. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. SUPPORT RO SYSTEM FROM THE DECK.
14. CONNECT STEAM LINE TO DUCT DISPERSION TUBE AS PER MANUFACTURERS RECOMMENDATIONS. REFER TO SCHEMATIC PLANS FOR ADDITIONAL INFORMATION.
15. INSTALL HUMIDIFIER CONTROLLER 48" A.F.F
16. HIGH LIMIT DUCT HUMIDISTAT LOCATED 10 FT FROM DUCT DISPERSION TUBE. SET TO 75% RH.
17. 1-1/2" DRAIN LINE GOES DOWN INSIDE PARTITION AND TERMINATES OVER CLINICAL SERVICE SINK. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.



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MECHANICAL DEMOLITION/IMPROVEMENT PLAN

100% CONSTRUCTION DOCUMENTS

M-200

1.1 VARIABLE AIR VOLUME - TERMINAL UNIT-COOLING ONLY (TYPICAL OF 1)

RUN CONDITIONS - CONTINUOUS:
THE UNIT SHALL RUN CONTINUOUSLY AND SHALL MAINTAIN:

- A 74°F (ADJ.) COOLING SETPOINT
- A 70°F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

ZONE SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR.

VARIABLE VOLUME TERMINAL UNIT - FLOW CONTROL:
THE UNIT SHALL MAINTAIN ZONE SETPOINTS BY CONTROLLING THE AIRFLOW THROUGH ONE OF THE FOLLOWING:

OCCUPIED:

- WHEN ZONE TEMPERATURE IS GREATER THAN ITS 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 COOLING SETPOINT, THE ZONE DAMPER SHALL MAINTAIN THE MINIMUM REQUIRED ZONE VENTILATION (ADJ.).

UNOCCUPIED:

- WHEN THE ZONE IS UNOCCUPIED THE ZONE DAMPER SHALL CONTROL TO ITS MINIMUM UNOCCUPIED AIRFLOW (ADJ.).

- WHEN THE ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM UNOCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.

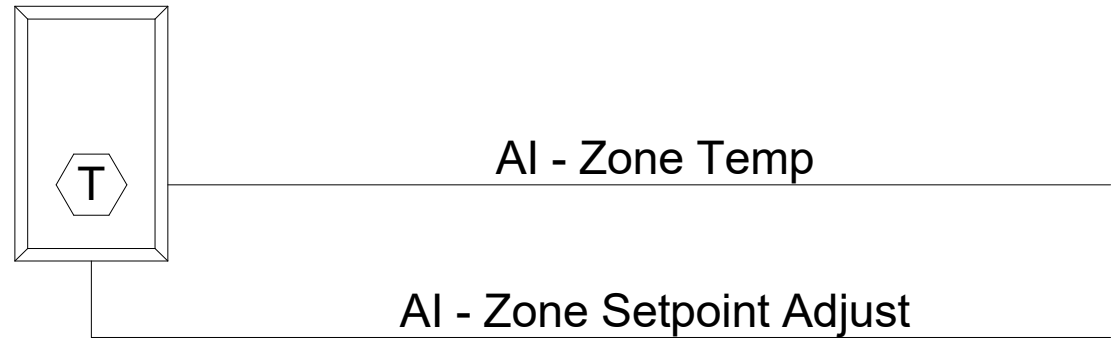
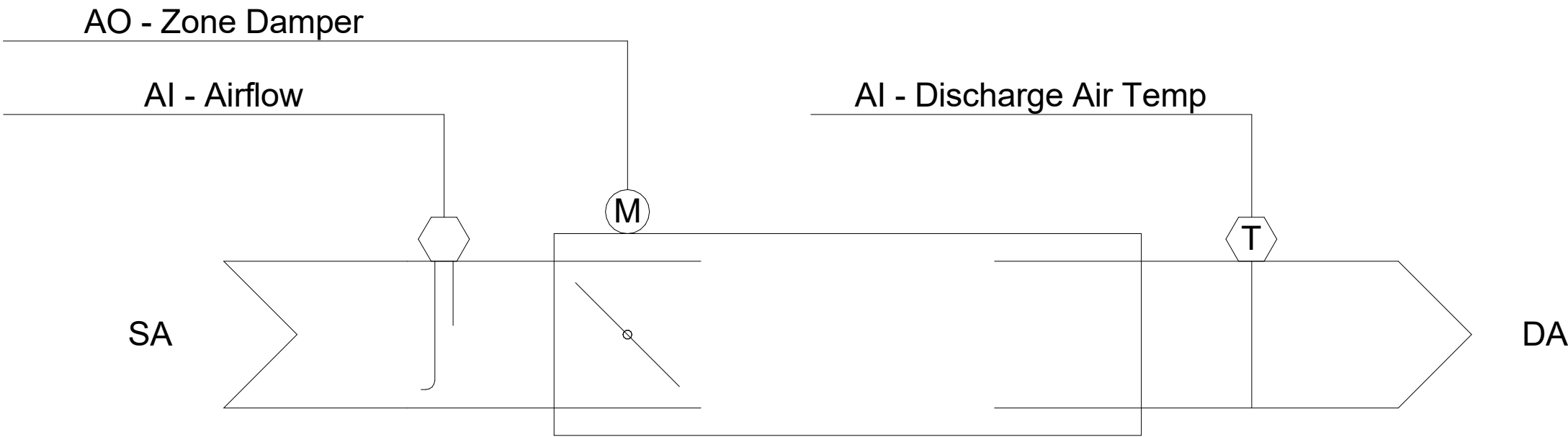
DISCHARGE AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
- LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.).

POINT NAME	HARDWARE POINTS				SOFTWARE POINTS						SHOW ON GRAPHIC
	AI	AO	BI	BO	AV	BV	LOOP	SCHED	TREND	ALAR M	
AIRFLOW	X								X		X
DISCHARGE AIR TEMP	X								X		X
ZONE SETPOINT ADJUST	X										X
ZONE TEMP	X								X		X
ZONE DAMPER		X							X		X
AIRFLOW SETPOINT					X				X		X
COOLING SETPOINT					X				X		X
HIGH DISCHARGE AIR TEMP										X	
HIGH ZONE TEMP										X	
LOW DISCHARGE AIR TEMP										X	
LOW ZONE TEMP										X	
TOTALS	4	1	0	0	3	0	0	0	7	4	8
TOTAL HARDWARE (5) TOTAL SOFTWARE (14)											

1 VARIABLE AIR VOLUME-TERMINAL UNIT-COOLING ONLY
M-300 N.T.S



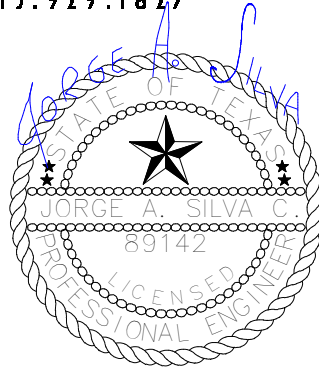
2 VAV SCHEMATIC
M-300 1/2" = 1'-0"

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Architecture

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UNIVERSITY
MEDICAL CENTER
OF EL PASO



DRAWN BY: AEG
PROJECT NO: 2023-18
ISSUED: SEPTEMBER 26, 2023

REVISION SCHEDULE:

NO.	DATE	DESCRIPTION

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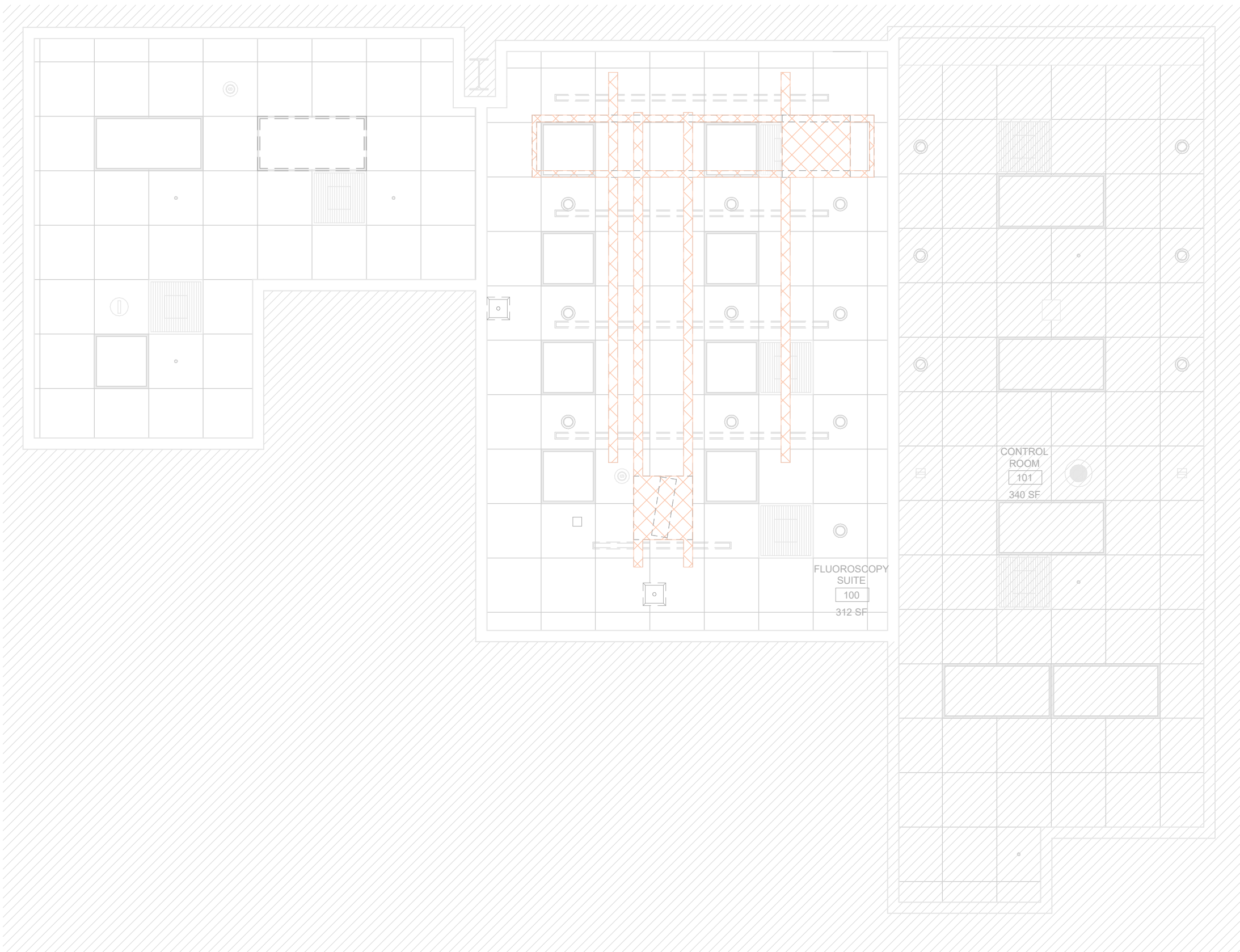
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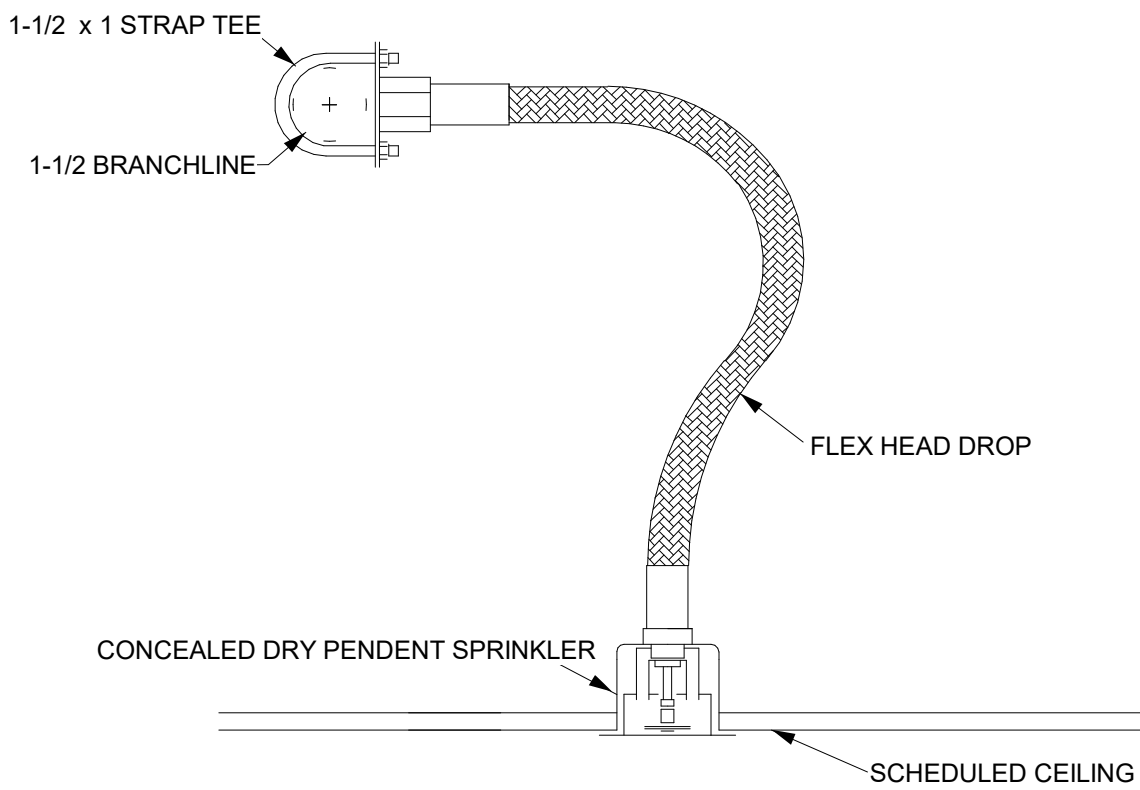
MECHANICAL DDC CONTROL PLAN

100% CONSTRUCTION DOCUMENTS

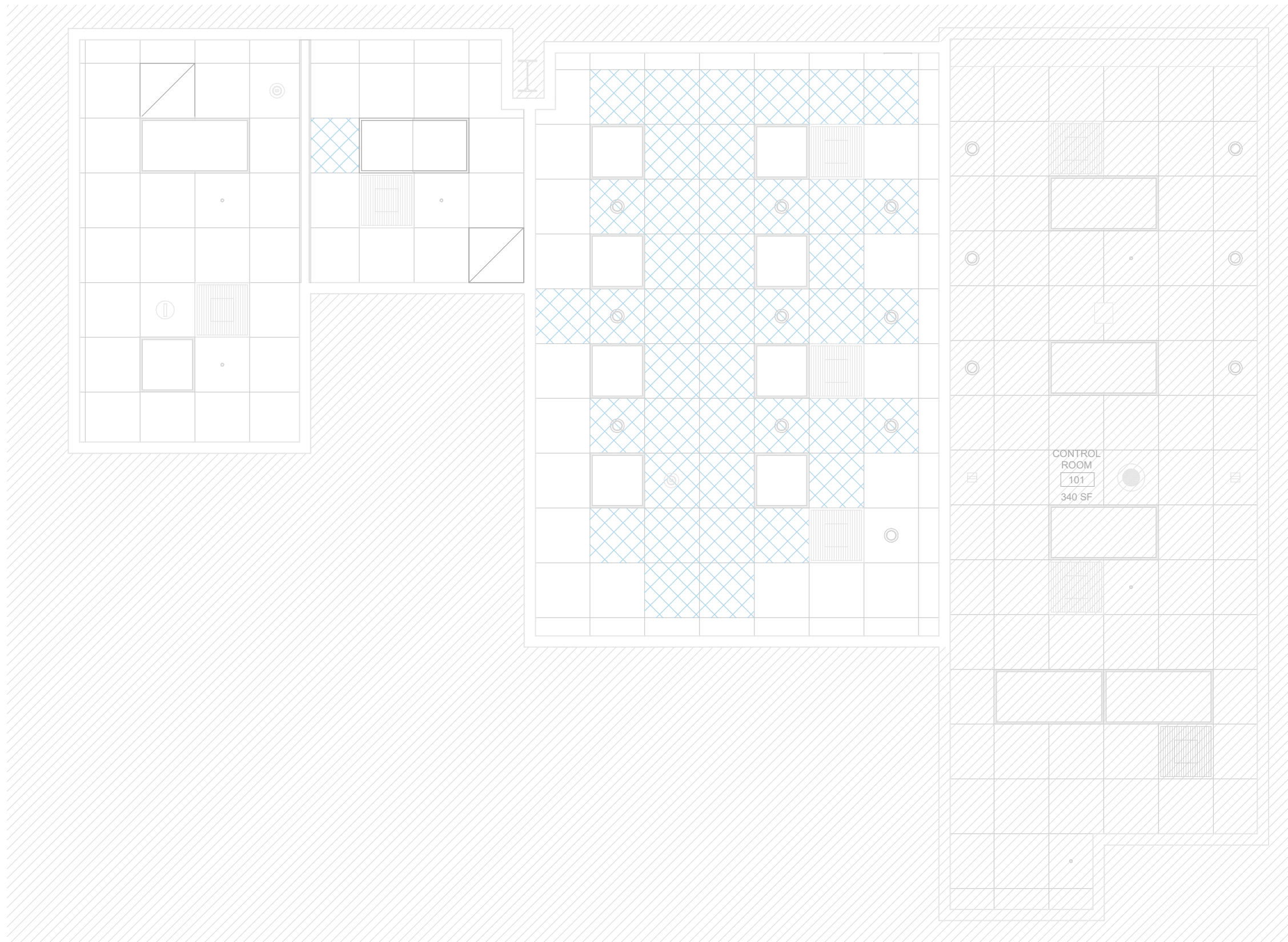
M-300



1 FIRE PROTECTION DEMOLITION PLAN
FP-100 1/4" = 1'-0"



3 CONCEALED SPRINKLER HEAD SCHEMATIC
FP-100 N.T.S



2 FIRE PROTECTION IMPROVEMENT PLAN
FP-100 1/4" = 1'-0"

FIRE PROTECTION GENERAL NOTES

PERFORMANCE REQUIREMENTS

- A. STANDARD PIPING SYSTEM COMPONENT WORKING PRESSURE: LISTED FOR AT LEAST 175 PSIG (1200 KPA).
- B. SPRINKLER SYSTEM DESIGN SHALL MEET NFPA 13, CHAPTERS 12 AND 16 TO ADDRESS THE NEW OFFICE FACILITY REQUIREMENTS. FIRE SUPPRESSION SPRINKLER SYSTEM DESIGN SHALL BE APPROVED BY . AUTHORITIES HAVING JURISDICTION.
- C. THE SYSTEM SHALL BE SUBJECT TO HYDROSTATIC PRESSURE TESTING PRIOR TO FINAL ACCEPTANCE AS PER NFPA 13, SECTION 25.2
- D. ALL CERTIFICATION DOCUMENTATION LISTED IN NFPA 13, CHAPTER 25, SHALL BE PROVIDED TO THE AHJ UPON COMPLETION OF THE PROJECT AND PRIOR TO THE HYDROSTATIC ACCEPTANCE TEST.
- MARGIN OF SAFETY FOR AVAILABLE WATER FLOW AND PRESSURE: 20 PERCENT, INCLUDING LOSSES THROUGH WATER-SERVICE PIPING, VALVES, AND BACKFLOW PREVENTERS.
- SPRINKLER OCCUPANCY HAZARD CLASSIFICATIONS:
- BUILDING SERVICE AREAS: ORDINARY HAZARD, GROUP 1
- OFFICE AND PUBLIC AREAS: LIGHT HAZARD
- MINIMUM DENSITY FOR AUTOMATIC-SPRINKLER PIPING DESIGN:
VALUES INDICATED SHOULD PROVIDE MINIMUM REQUIRED TOTAL FLOW FOR EACH HAZARD AND GROUP.
- LIGHT-HAZARD OCCUPANCY: 0.10 GPM OVER 1500-SQ. FT. (6.3 ML/S OVER 139-SQ. M) AREA.
- ORDINARY-HAZARD, GROUP 1 OCCUPANCY: 0.15 GPM OVER 1500-SQ. FT. (9.5 ML/S OVER 139-SQ. M) AREA.

4. MAXIMUM PROTECTION AREA PER SPRINKLER:
- OFFICE SPACES: 120 SQ. FT. (11.1 SQ. M) 225 SQ. FT. (20.9 SQ. M)
- STORAGE AREAS: 130 SQ. FT. (12.1 SQ. M)
- OTHER AREAS: ACCORDING TO NFPA 13 RECOMMENDATIONS, UNLESS OTHERWISE INDICATED.
- TOTAL COMBINED HOSE-STREAM DEMAND REQUIREMENT: ACCORDING TO NFPA 13, UNLESS OTHERWISE INDICATED:
- a. LIGHT-HAZARD OCCUPANCIES: 100 GPM (6.3 L/S) FOR 30 MINUTES.
- b. ORDINARY-HAZARD OCCUPANCIES: 250 GPM (15.75 L/S) FOR 60 TO 90 MINUTES.
5. PROVIDE NEW OFFICE AREA WITH RELOCATED PENDANT SPRINKLER HEADS WITH FLEXIBLE FIRE SPRINKLER FITTING BRACKET AND HOSE SYSTEM SIMILAR TO VICFLEX.
6. CONTRACTOR SHALL SUBMIT A NEW FLOW TEST.
7. CONTRACTOR TO VERIFY THAT EXISTING FIRE PROTECTION SYSTEM IS CODE COMPLIANT.
8. ALL REQUIRED UPGRADES ARE TO BE INCLUSIVE OF BASE COST.

9. ALL MATERIAL ARE NEW, UNLESS INDICATED OTHERWISE.
10. SIZES AND ROUTING OF FIRE PROTECTION LINES ARE SUGGESTED. CONTRACTOR SHALL PROVIDE DETAILED SPRINKLER LAYOUT WITH SIZES PROVEN BY HYDRAULIC CALCULATIONS.
11. HYDRAULIC CALCULATIONS: SUBMIT SEPARATE CALCULATIONS RUNS FOR EACH ONE OF THE HAZARD CLASSIFICATIONS INDICATED ON THE PLANS. CALCULATIONS SHALL INCLUDE ALL PIPING EXTERIOR TO THE BUILDING, TO THE POINT WHERE THE FLOW TEST IS PRESENTED IN THESE DOCUMENTS OR PERFORMED BY THE CONTRACTOR. SELECT THE MOST DEMANDING OF EACH CLASSIFICATION.
12. INSTALL ADDITIONAL SPRINKLERS PER NFPA 13 TO FIR THE ACTUAL CONFIGURATION OF THE CEILING AND CONSTRUCTIONS.
13. SUPPORT PIPING FROM STRUCTURE AND ROUTE AS HIGH AS POSSIBLE.
14. RATING: ALL COMPONENTS IN THIS PROJECT SHALL BE RATED AT NO LESS THAN 175 PSI. HIGHER RATINGS MAY BE INDICATED IN THESE DOCUMENTS FOR PARTICULAR CASES.

15. MINIMUM SPRINKLER STEEL PIPE SCHEDULE SHALL BE:
- 4" AND SMALLER SCHEDULE 40.
- 6" AND LARGER SCHEDULE 20.
16. CLEARLY LABEL ALL ISOLATION AND CONTROL VALVES PER NFPA STANDARDS, INDICATING WHICH SYSTEM AND ZONE IS BEING SERVED BY THE LABELED DEVICE.
17. AREAS NOT SPECIFICALLY NOTED ON THE DRAWINGS SHALL BE DESIGNED FOR LIGH HARD, AS INDICATED IN THE DESIGN CRITERIA.
18. DRAWINGS ARE CONSIDERED SCHEMATIC IN NATURE. PROVIDE REQUIRED FITTINGS AND OFFSETS FOR A COMPLETELY OPERATIONAL INSTALLATION.
19. OBTAIN APPROVAL OF SHOP DRAWINGS FROM FIRE MARSHALL PRIOR TO CONSTRUCTION AND SUBMITTING TO ENGINEER.
20. DO NOT RUN ANY PIPING THROUGH ELECTRICAL AND DATA ROOMS, UNLESS THE PIPING SERVES THE ROOM SPECIFICALLY.
21. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE PENDANT TYPE.

22. ALL PIPE TO BE UL AND FM LISTED FOR THE USE IN FIRE SPRINKLER SYSTEMS. EACH PIPE WILL BE ONLY USED IN SIZES LISTED IN FOLLOWING TABLE. THIS TABLE SHOWS THE ACTUAL INSIDE DIAMETER OF EACH PIPE. THESE SIZES ARE USED IN THE HYDRAULIC CALCULATIONS. ALL OF THE PIPE TYPES AND SIZES LISTED IN THE TABLE MAY OR MAY NOT BE USED ON THIS PLAN.
23. WHEN 1" SCHEDULE 40 PIPING IS THREADED. 150# CAST IRON FITTINGS ARE TO BE USED TO CONNECT PIPING. ALL FITTINGS ARE TO BE UL AND FM LISTED FOR USE ON SPRINKLER SYSTEMS.
24. WHEN ANY PIPING IS GROOVED, GROOVED ELL, TEES, CAPS, AND REDUCERS ARE TO BE USE ON FIRE SPRINKLER SYSTEMS.
25. ALL OF THE PIPING ON THE PIPING TO BE INSTALLED IS TO BE HUNG IN ACCORDANCE WITH CURRENT NFPA AND ALL ITEMS TO BE ULK AND FM APPROVED FOR SPRINKLER SYSTEMS.
26. ALL VALVES AND DEVICES THAT ARE USED TO BE UL AND FM LISTED FOR THE USE ON FIRE SPRINKLER SYSTEMS AND ARE TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS.
27. ALL WELDING WILL BE PERFORMED IN THE FABRICATION SHOP AT FIRE PROTECTION COMPANY AND IN ACCORDANCE WITH APPROVED WELDING METHODS AND PROCEDURES. ALL WELDING TO BE DONE WILL BE EXECUTED BY A CERTIFIED WELDER, FITTINGS AND WITH GROOVED COUPLINGS. ALL OF THESE ITEMS ARE TO BE UL AND FM LISTED.

PIPE SIZE SCHED 40
1"

28. WHERE SLEEVES PASS THROUGH FIRE RATED WALLS, OPENINGS SHALL BE CALCULATED AND SEALED WITH FIRE PROOFING MATERIAL.
29. SPRINKLER HEADS LOCATION IS CONCEPTUAL. FIELD TO COORDINATE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND COMPLY WITH NFPA 13 AS WELL AS MANUFACTURES SPACE REQUIREMENTS. ***SPRINKLER HEADS TO BE CENTERED TILE***.
30. HYDROSTATIC SYSTEM ACCEPTANCE SHALL BE CONDUCTED PER THE REQUIREMENTS OF NFPA 13.

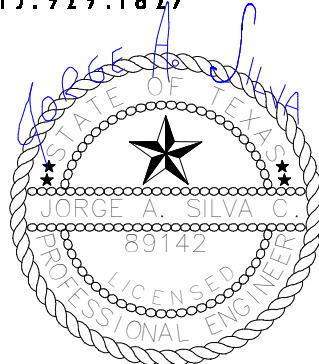
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SHEET TITLE:

FIRE PROTECTION SCHEDULES, LEGEND, GENERAL NOTES

FP-100

UMC ELECTRICAL REQUIREMENTS

- I. CONTRACTORS EXPECTATIONS:
1. ALL NEW ELECTRICAL WORK SHALL BE PERFORMED BY A QUALIFIED ELECTRICAL CONTRACTOR THAT IS LICENSED AND BONDED APPLYING NFPA 70-2020, NFPA 99-2012 AND NFPA 70E 2015 OR THE MOST CURRENT APPLICABLE STANDARD FOR THE AUTHORITY HAVING JURISDICTION FOR ALL ELECTRICAL WORK PERFORMED FOR UMC WITH THE EXCEPTION OF THE FOLLOWING ARTICLES WHICH MUST BE COMPLIED WITH AS LISTED UNLESS OTHERWISE APPROVED BY HOSPITAL MANAGEMENT IN WRITING. IN THE EVENT THERE IS CONFLICT BETWEEN ANY CODE REQUIREMENT AND THE EXCEPTIONS OF THIS LIST, THE MOST STRINGENT RULE SHALL APPLY.
- A. ANYONE THAT WORKS AT UMC WILL NEED TO SIGN IN AND OUT AT ENGINEERING OFFICE, WEAR A HOSPITAL BADGE AT ALL TIMES AT WORK AND MUST RECEIVE CONTRACTOR'S ORIENTATION AT LEAST ONCE WHICH IS PERFORMED EVERY THURSDAY AT 8AM. ARRANGEMENTS SHALL BE MADE WITHIN AT LEAST 24 HOURS OF ANTICIPATION TO SCHEDULE A REQUIRED ONE TIME 45 MINUTES SAFETY ORIENTATION. THE TRAINING SHALL BE SCHEDULED WITH MINDY APARICIO OF THE ENGINEERING DEPARTMENT MAIN OFFICE AT 521-7640.
- B. ALL ELECTRICAL CONTRACTOR PERSONNEL MUST ARRIVE IN PRESENTABLE ATTIRE. NO RIPPED SHIRTS OR RIPPED PANTS ETC...IT IS RECOMMENDED FOR PERSONNEL TO WEAR A UNIFORM WITH COMPANY LOGO. WHEN WORKING ON HOSPITAL PUBLIC AREAS THE CONTRACTOR MUST ABIDE TO HOSPITAL APPEARANCE POLICIES.
- C. REGARDLESS OF WHICH DEPARTMENT CONTRACTED YOUR ELECTRICAL SERVICE COMPANY, ALL CONTRACTORS MUST NOTIFY ANY ONE OF UMC ELECTRICAL STAFF UPON ARRIVAL AND UPON COMPLETION OF WORK TO INSPECT FOR PROPER INSTALLATION. UMC ELECTRICAL STAFF WILL ACKNOWLEDGE THE INTENDED SCOPE OF WORK, ASSESS ITS FEASIBILITY AND SAFE EXECUTION AND TO CONDUCT A MANDATORY NFPA 70E 2015 ARTICLE 110.1 (A,B,C) PRE JOB BRIEFING MEETING WHICH MUST BE SIGNED BY ALL MEMBERS PARTICIPATING IN THE EXECUTION OF THE JOB SCOPE INTENDED FOR EACH WORKING DAY. THE ELECTRICAL CONTRACTOR MUST MAKE ALL NECESSARY PROVISIONS TO PARTICIPATE AND FULLY COMPLY WITH THIS MANDATORY REQUIREMENT.
- D. A LOAD ASSESSMENT SHALL BE PERFORMED BY THE CONTRACTOR ANYTIME HIS PROPOSAL INCLUDES CONNECTING TO AN EXISTING CIRCUIT. AMPERAGE AND VOLTAGE READINGS MUST BE PERFORMED PRIOR TO THE INSTALLATION TO AVOID OVERLOAD. THE INFORMATION TAKEN MUST BE MADE AVAILABLE TO UMC ELECTRICIANS FOR EVALUATION. THE SCOPE OF WORK WHEN CONNECTING TO EXISTING CIRCUITS MUST BE PREAPPROVED IN WRITING (EMAIL OR SIGNED SHOP DRAWINGS ETC.) BY A MEMBER OF UMC ELECTRICAL SERVICE TEAM AFTER MAKING AVAILABLE

1. WHEN WORKING IN THE CEILING, "ABOVE THE CEILING PERMITS" MUST BE FILLED OUT PRIOR TO STARTING WORK & MUST HAVE A COPY WITH THEM ON JOB SITE AT ALL TIMES.
- a. THE CONTRACTOR MUST ENSURE THAT ALL BOXES ARE COVERED, ALL KNOCKOUTS ARE SEALED.
- b. ANY UNACCEPTABLE JOB CONDITIONS FOUND AT THE TIME OF THE WORK EXECUTION AND THAT ARE NOT PART OF THE SCOPE OF WORK (OPEN BOXES, FIRE PENETRATIONS, EXPOSED WIRES, UNSAFE CONDITIONS ETC.) SHALL BE DOCUMENTED AND BROUGHT BACK TO THE ATTENTION OF THE UMC ELECTRICIAN OVERSEEING THE JOB RELATED WITH THE SCOPE OF WORK. ANY ITEMS NOT REPORTED AN OPPORTUNE TIME, MIGHT BE CONSIDERED THE RESPONSIBILITY OF THE CONTRACTOR TO CORRECT OR REPAIR.

- II. ELECTRICAL REQUIREMENTS FOR NEW INSTALLATIONS.
1. ANY TIME A CONTRACTOR PERFORMS ANY WORK ON A DISTRIBUTION PANEL, SWITCHBOARD, MOTOR CONTROL CENTER THAT WILL CHANGE THE DESIGNATION / ACCURACY OF ANY ELEMENT ON THE PANEL SCHEDULE OR THE ACCURACY OF THE EXISTING LABELS ON ANY EQUIPMENT, THE CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL NEW LABELS PANEL SCHEDULES IN CONFORMITY TO NEC 70, 70E AND THIS UMC ELECTRICAL REQUIREMENTS FOR NEW CONSTRUCTION WHICHEVER IS STRICTER. ANY CHANGES MADE TO A PANEL SCHEDULES MUST BE TYPED AND NOT HAND WRITTEN.
- A. ELECTRICAL EQUIPMENT TO BE IDENTIFIED WITH NAMEPLATES INCLUDES: DISTRIBUTION PANELS, LIGHTING PANELBOARDS, SWITCHBOARDS, TRANSFORMERS, DISCONNECTS, AND ALL OTHER ELECTRICAL EQUIPMENT.
- B. NAMEPLATES SHALL BE REQUIRED TO BE COLOR CODED IN ACCORDANCE WITH THE COLOR CODE STATED IN THE SECTION 22 TABLE. PROVIDE APPROPRIATELY COLOR CODED PLASTIC LAMINATED NAMEPLATES AT ALL LOCATIONS OF MAJOR UNITS OF THE ELECTRICAL EQUIPMENT AS STATED ABOVE. NAMEPLATES SHALL BE CONSTRUCTED FROM LAMINATED PHENOLIC PLASTIC, 1/8 INCH THICK, 3-PLY COLORED SURFACES WITH WHITE CORE. ENGRAVING SHALL BE WITH ROMAN GOTHIC LETTERING, 3/16 INCH HIGH, APPROPRIATELY SPACED. THE NAMEPLATE SHALL BE ATTACHED TO THE CONTROL DEVICES BY USE OF SELF TAPPING FLAT HEAD CHROMIUM PLATED SCREWS UNLESS APPROVED OTHERWISE.
- C. THE NAMEPLATE MUST INCLUDE WHERE THE EQUIPMENT IS FED FROM.
2. ALL CONDUIT AND WIRING SHALL BE INSTALLED IN A NEAT AND PRESENTABLE MANNER.
- A. ALL BOX COVERS, RECEPTACLES, AND SWITCHES SHALL BE PERMANENTLY IDENTIFIED WITH THE PANEL NAME AND THE CIRCUIT NUMBER.
- B. ALL HOMERUNS THAT SHALL BE .75" CONDUIT OR LARGER.
- C. EMT FITTINGS MUST BE RAIN TIGHT FOR OUTDOORS AND COMPRESSION TYPE FOR INDOORS.
- D. BOXES MUST BE AT LEAST 2 1/2" DEEP UNLESS APPROVED BY UMC.
- E. AT LEAST 10' OF FREE CONDUCTOR, MEASURED FROM THE POINT IN THE BOX WHERE IT EMERGES FROM THE RACEWAY.

- F. HOMERUNS SHALL BE AT LEAST NUMBER 10 AWG AND MUST BE THHN OR EQUIVALENT.
- EXCEPTION: IN AN UNGROUNDED ISOLATED POWER SYSTEM CONDUCTORS MUST BE AT LEAST NUMBER 10 AWG STRANDED WITH XHHW INSULATION OR EQUIVALENT.
- G. ON A 120 - 208 VOLT WYE SYSTEM BLACK, RED, BLUE, AND WHITE CONDUCTORS MUST BE USED AND ON A 277-480 VOLT WYE SYSTEM BROWN, ORANGE, YELLOW, AND GRAY MUST BE USED.
- H. BRANCH CIRCUITS THAT HAVE A DIFFERENT VOLTAGE SHALL NOT BE INSTALLED IN THE SAME RACEWAY OR BOX.
- I. SIMILARLY, BRANCH CIRCUITS FROM DIFFERENT BRANCHES OF THE EMERGENCY & NORMAL POWER SYSTEMS SHALL NOT BE INSTALLED IN THE SAME RACEWAY OR BOX.
- J. IF RUNNING OUTSIDE (ROOFS, FLOOR, ETC.) CONDUIT SHALL BE RIGID.
- K. IF RUNNING ON ROOF DURA BLOCKS TO BE USED FOR STRAPPING AND NOT WOOD BLOCKS.
- L. IN ACCORDANCE WITH NEC ARTICLE 517.13(A) WIRING METHODS, ALL BRANCH CIRCUITS INSTALLED IN A PATIENT CARE AREA SHALL BE INSTALLED IN A METAL RACEWAY.
- M. IF LESS THAN OR EQUAL TO 100 AMPS OR WIRE SIZES 12 TO 1 AWG CONDUCTORS, THE CONTRACTOR MUST SIZE ALL CONDUCTORS BASED ON THE 60 DEGREES CELSIUS WIRE AMPACITY SELECTION COLUMN.
- N. IF GREATER THAN 100 AMPS OR LARGER THAN 1 AWG CONDUCTOR, THE CONTRACTOR MUST SIZE CONDUCTORS BASED ON THE 75 DEGREE CELSIUS WIRE AMPACITY SELECTION COLUMN.
- O. REGARDLESS OF THE WIRE SELECTION METHOD USED AS PERMITTED BY BULLETS M OR N ON THIS DOCUMENT, ALL EQUIPMENT INSTALLATIONS, TERMINATION, WIRE SIZE, WIRE SPLICES SHALL BE MADE TO COMPLY WITH THE 90 DEGREE CELSIUS WIRE AMPACITY COLUMN.
- P. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE INSTALLATIONS TO COMPLY WITH THE VOLTAGE DROP REQUIREMENTS STATED IN THE 2014 NFPA NEC 70 CODE ARTICLE 210.19 (A) FPN 4. UMC WILL VERIFY COMPLIANCE WITH THIS ARTICLE AT FULL LOAD AND THE CONTRACTOR IS SOLELY RESPONSIBLE TO CORRECT AT THEIR OWN COST ANY INSTALLATION PERFORMED THAT DOES NOT MEET THE REQUIREMENT UNDER THE REFERRED ARTICLE.

2. DEVICE REQUIREMENTS.
- A. ALL RECEPTACLES SHALL BE HOSPITAL GRADE, RATED 20AMPS, AND INSTALLED WITH THE GROUND PRONG ON TOP.
- B. SWITCHES SHALL BE SPEC GRADE.
- C. ALL MULTI-STRIPS OUTLETS MUST BE UL HOSPITAL APPROVED AND HOSPITAL GRADE TYPE OUTLET. SHALL BE SECURED AND FIXED TO THE WALL OR EQUIPMENT SERVED.
3. LIGHTING
- A. COLOR TEMPERATURE MUST BE 4100 KELVINS OR 5,000 KELVINS WHEN SPECIFIED BY UMC STAFF.
- B. OUTSIDE LIGHTING SHALL COMPLY WITH THE CITY LIGHT ORDINANCE.
- C. ALL LAY IN LIGHT FIXTURES TO BE SUPPORTED BY THEIR OWN INDEPENDENT DISTINCT COLORED WIRE. NO LESS THAN TWO INDEPENDENT POINTS OF ATTACHMENT AND THE WIRE SHALL BE INDEPENDENTLY SECURED TO THE DECK OR ROOF STRUCTURE (JOISTS).
- D. ALL LIGHT SWITCH LOCATIONS SHALL BE PROVIDED WITH A GROUNDED CONDUCTOR AT ALL NEW INSTALLATION WORK. THE APPLICATION OF PROVISIONS AS STATED ON ARTICLE 404.2(C) EXCEPTIONS SHALL BE REQUESTED FOR UMC APPROVAL IN WRITING AT THE TIME OF SUBMITTING THE QUOTE OR AT ANY TIME DURING THE JOB EXECUTION. UMC WILL DECIDE ON THE ACCEPTANCE OF THE REQUEST FOR EXCEPTIONS FOR EACH JOB PROPOSAL.
- E. FOR NEW CONSTRUCTION ALL RECESSED CAN TYPE LIGHTING MUST BE L.E.D AND COMPLETELY SEALED RECESSED LIGHT COVER ASSEMBLY WITHOUT A PERFORATION OPENING ABOVE CEILING PLENUM. REGARDLESS IF PLANS OR PROJECT SHOW OTHERWISE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AUTHORIZATION IN WRITING FROM THE UMC ELECTRICAL TEAM OR MANAGER, DIRECTOR BEFORE DEVIATING FROM THIS REQUIREMENT.

- F. PANEL BOARDS WILL BE "BOLT ON" TYPE SQUARE D OR APPROVED EQUAL DIFFERENT TERMINATION (SNAP ON) SHALL NOT BE USED UNLESS OTHERWISE APPROVED BY HOSPITAL.
5. ALL STANDARD COVERS MUST BE STAINLESS STEEL.
6. NO MORE THAN 6' OF FMC, HOF90 CABLE, ETC. UNLESS APPROVED BY HOSPITAL ELECTRICIAN OR SUPERVISORS.
7. NO PVC RACEWAYS SHALL BE ALLOWED IN HOSPITAL.
8. UNDER NO CIRCUMSTANCE A BREAKER IS TO BE TURNED OFF BEFORE GETTING APPROVAL FROM HOSPITAL ELECTRICIANS OR SUPERVISORS. TWO LEVELS OF OVERCURRENT PROTECTION FROM THE LOAD MUST BE INVESTIGATED BEFORE WORKING WITH A CIRCUIT HOT.
9. UNDER NO CIRCUMSTANCE IS A JOB SITE WITH TOOLS, MATERIALS, OR OPEN CEILING TILES TO BE LEFT UNATTENDED. ALL ITEMS ARE TO BE ON A MOVEABLE CART, LADDERS REMOVED AND CEILING TILES PUT BACK BEFORE LEAVING A WORK AREA WITH NO RESTRICTED ACCESS.
10. NEVER LEAVE ANY LIVE, OPEN, OR ETC. FOR ANY REASON WITHOUT SUPERVISION.
11. NO QUADS ON PATIENT CARE AREAS (TDH)
12. NO FLEX OR RACEWAY SHOULD BE APPROVED FOR GROUNDING PATH (A EQUIPMENT GROUNDING CONDUCTOR SHALL BE RUN THROUGH THE RACEWAY AT ALL TIMES).
13. TAMPER PROOF OUTLETS WILL BE REQUIRED TO BE USED IN ANY PEDIATRIC AREA'S, WAITING ROOMS, ER, ETC. (ANY PLACE KIDS MAY BE PRESENT) 20 AMP HOSPITAL GRADE RECEPTACLE TAMPER PROOF.
14. FIRE ALARM: ANY WORK WILL NEED TO GO THROUGH ELECTRICIAN OR MANAGEMENT & CORRECT PAPER WORK TO BE FILLED OUT.
15. RIGID CONDUIT TO BE USED ON RUNS OUTSIDE BELOW 6FT OR TOPS.
16. CONTRACTOR MUST BE READY TO PROVIDE COPIES OF JOURNEYMAN & MASTER ELECTRICIAN LICENSE UPON REQUEST.
17. CONTRACTORS NEED TO CONTACT UMC ELECTRICIANS WHEN THEY ARE PRESENT TO PERFORM ANY WORK IN UMC.
18. THERE MUST BE A QUALIFIED PERSON SUCH AS A JOURNEYMAN ELECTRICIAN PRESENT AT ALL TIMES
19. ALL WORK ON ELECTRICAL EQUIPMENT MUST BE PERFORMED DE-ENERGIZED. PROPER DOCUMENTATION AND COORDINATION MUST BE FOLLOWED TO MINIMIZE THE IMPACT TO THE HOSPITAL.
20. IN THE EVENT ELECTRICAL WORK NEEDS TO BE PERFORMED WHILE ENERGIZED, AN ENERGIZED WORK PERMIT MUST BE FILLED OUT WITH THE APPROVAL AND SIGNATURES OF THE SAFETY DEPARTMENT
21. CONDUCTORS SHALL BE COLOR CODED BY THE VOLTAGE A PER TABLE BELOW:

VOLTAGE	PHASE A	PHASE B	PHASE C	NEUTRAL	GROUND
480V	BROWN	ORANGE	YELLOW	GRAY	GREEN
208V	BLACK	RED	BLUE	WHITE	GREEN

BRANCH	COLOR
NORMAL	BLACK
CRITICAL	ORANGE
LIFE SAFETY	YELLOW
EQUIPMENT	BLUE
FIRE ALARM	RED
LOW VOLTAGE CONTROL WIRING	PINK

23. WHEN MC CABLE IS BEING USED, THE CONTRACTOR SHALL INSTALL THE CABLE IDENTIFIED ACCORDING TO THE VOLTAGE IT IS FEEDING SUCH AS 120V A BLACK BAND AROUND THE METAL JACKET OF AN MC CABLE AND FOR 277V A CABLE WITH A BROWN BAND SHALL BE USED.
24. WHEN ADDING CIRCUITS TO AN ELECTRICAL PANEL THE CONTRACTOR MUST REVISE THE PANEL SCHEDULE.
25. THE ELECTRICAL PANEL SHALL NOT HAVE A SPARE BREAKER WITH AN EXISTING CONDUCTOR ON IT. IN THE EVENT THIS CONDITION EXISTS, IT MUST BE BROUGHT TO THE ATTENTION OF THE UMC ELECTRICIANS IMMEDIATELY.
26. TO PREVENT AN UNINTENDED GROUND FAULT CONDITION AND TO MINIMIZE RISK OF AN ELECTRICAL SHOCK, ALL METAL PARTS OF THE ELECTRICAL SYSTEM THAT IS LIKELY TO BECOME ENERGIZED, MUST BE BONDED TO THE BUILDING GROUNDING SYSTEM.
27. ANY UNSAFE CONDITION THAT IS OBSERVED MUST BE BROUGHT TO THE ATTENTION OF THE ELECTRICIANS OR MANAGEMENT IMMEDIATELY.
28. AS PER NFPA 25 5.2.2.2 - "SPRINKLER PIPING SHALL NOT BE SUBJECTED TO EXTERNAL LOADS BY MATERIALS EITHER RESTING ON THE PIPE OR HUNG FROM THE PIPE."
29. ALL FIREWALL PENETRATIONS SHALL BE SEALED WITH SSS FIRESTOP PRODUCTS AND THE INSTALLER MUST BE A CERTIFIED FOR SSS PRODUCTS. PLEASE GET IN CONTACT WITH GRAINGER SUPPLY FOR CERTIFICATION INFORMATION
30. IMPACT GUNS WILL NOT BE ALLOWED TO BE USED TO OPEN AND CLOSE ELECTRICAL PANELS.
31. CONTRACTOR TO SUPPLY THEIR OWN PPE, BUNNY SUITS AND ZIP WALLS.

REQUIRED TESTING AND STUDIES FOR ELECTRICAL STSTEMS:

A. THE ELECTRICAL CONTRACTOR SHALL INCLUDE ON BID THE FOLLOWING TESTING AND STUDIES REQUIRED BY THE TEXAS HEALTH AND HUMAN SERVICES AND NFPA99:

1. GROUNDING SYSTEM TESTING IN PATIENT CARE SPACES AS PER NFPA 99 6.3.3.1

2. RECEPTACLES TESTING IN PATIENT CARE SPACES AS PER NFPA 99 6.3.3.2

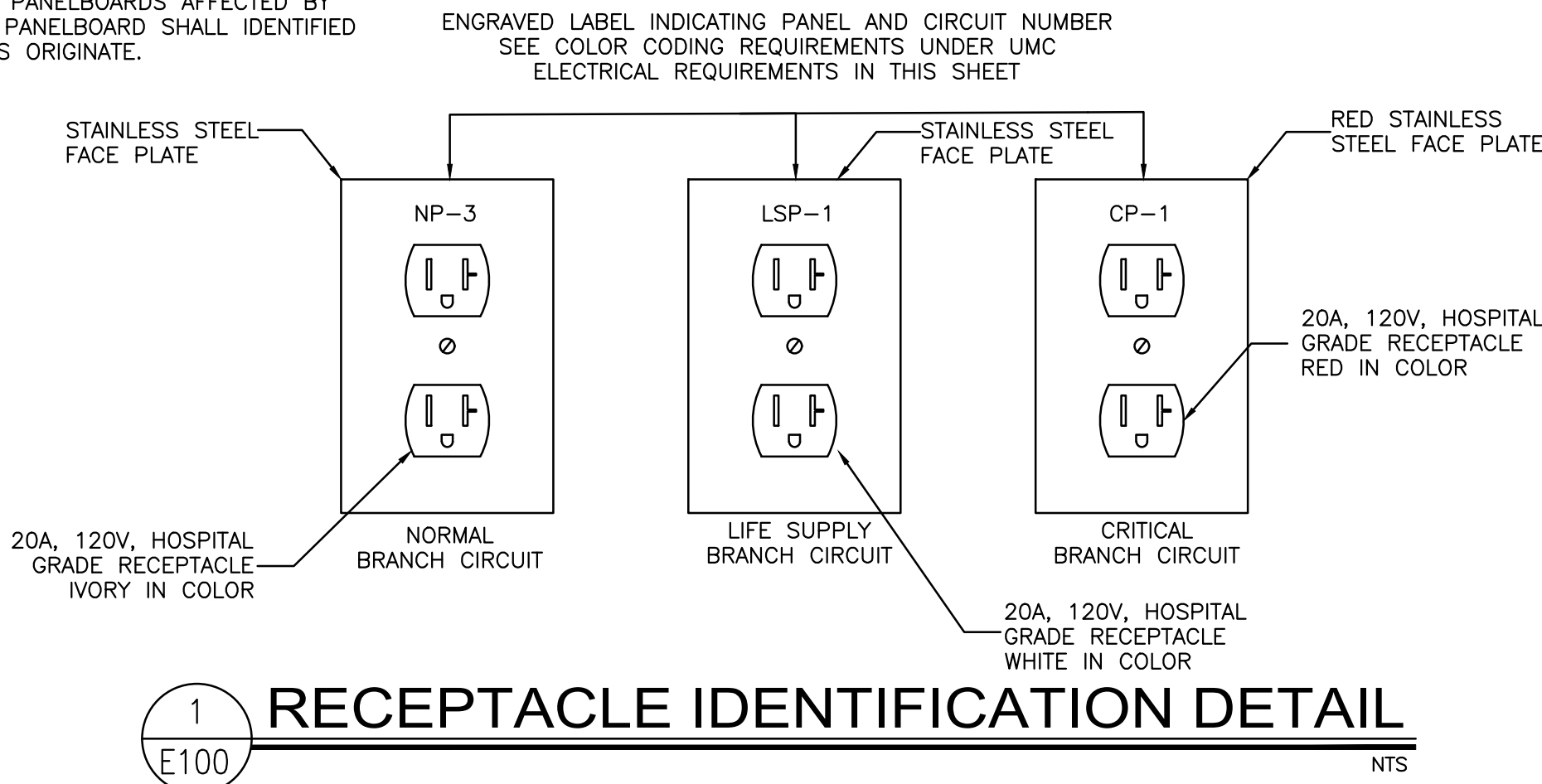
3. ISOLATED POWER SYSTEM AS PER NFPA 99 6.3.3.3

4. GROUND FAULT PROTECTION TESTING AS PER NFPA 99 6.3.3.4

5. ELECTRICAL PANELBOARD SELECTIVE COORDINATION STUDY.

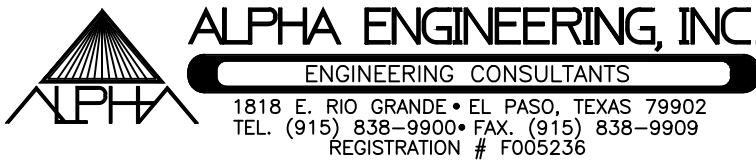
GENERAL NOTES:

- A. ELECTRICAL INSTALLATION MUST FOLLOW ALL NATIONAL AND LOCAL ELECTRICAL CODES. INSTALLATION MUST CONFORM TO THE LOCAL POWER COMPANY'S SPECIFICATIONS.
- B. ELECTRICAL CONTRACTOR MUST COORDINATE AND VERIFY WITH MECHANICAL AND PLUMBING CONTRACTOR THE LOCATION AND ELECTRICAL REQUIREMENTS TO ALL A/C EQUIPMENT, MOTORS, PUMPS, T-STATS, INTERLOCKING WIRING, ETC.
- C. ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION AND SHALL BE LISTED BY THE U.L.
- D. ELECTRICAL CONTRACTOR MUST COORDINATE ALL POWER SERVICE ON THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ALL FEES FOR TEMPORARY SERVICE.
- E. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL PERMIT AND INSPECTION FEES REQUIRED BY THE GOVERNING BODIES.
- F. ELECTRICAL CONTRACTOR MUST COMPLY WITH THE LATEST A.D.A. REQUIREMENTS.
- G. MINIMUM SIZE CONDUCTORS SHALL BE #12 THW CU. UNLESS NOTED OR SIZED BY CODE. ALL WIRING MUST BE COPPER.
- H. ALL WIRING MUST BE IN CONDUIT, INCLUDING ALL L.V. WIRING. THIN WALL CONDUIT (EMT) CAN BE INSTALLED CONCEALED ABOVE CEILING, IN FURRED WALLS, AND WALLS EXCEPT WHERE THOSE WALLS ARE GROUTED SOLID. USE FLEX CONDUIT FOR MOTORS AND LIGHTING FIXTURES. USE WATER TIGHT FLEX CONDUIT FOR WATER HEATERS, DISPOSALS, EXTERIOR CONNECTIONS, ETC. BOND ACCORDING TO CODE.
- I. VERIFY LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES PRIOR TO INSTALLATION. CONTRACTOR SHALL CORRECT AND ADJUST ANY NONE COORDINATED WORK AT NO COST TO OWNER OF PROJECT.
- J. CONTRACTOR MUST VISIT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS BEFORE BIDDING ON THIS PROJECT.
- K. ALL ELECTRICAL EQUIPMENT IN FIRE RATED ASSEMBLIES MUST BE INSTALLED SO THAT FIRE RATING IS NOT COMPROMISED. ELECTRICAL CONTRACTOR MUST INSTALL FIRE-STOPPING SEALS AND MATERIALS AS NECESSARY ON ALL PENETRATIONS MADE ON ALL FIRE RATED ASSEMBLIES TO MATCH FIRE RATING.
- L. BRANCH CIRCUIT NUMBERS ARE TO BE WRITTEN WITH BLACK INK MARKERS ON ALL COVERS OF ALL JUNCTION BOXES LOCATED ABOVE CEILING. MARKINGS MUST INDICATE THE PANEL AND CIRCUIT NUMBER OF CIRCUITS IN THAT BOX.
- M. MC CABLE IS NOT ALLOWED FOR ELECTRICAL INSTALLATIONS EXCEPT FOR LIGHT FIXTURE WHIPS.
- N. ALL GFI RECEPTACLES MUST BE INSTALLED ON AN ACCESSIBLE LOCATION AS PER NEC 210.8.
- O. ALL CONDUCTORS INSTALLED IN UNDERGROUND ENCLOSURES OR RACEWAYS MUST BE LISTED FOR USE IN WET LOCATIONS.
- P. PULLSTRING MUST BE INSTALLED IN ALL EMPTY CONDUITS. PULLSTRING MUST BE HEAVY DUTY. PROVIDE TAGS AT EACH END OF PULLSTRING DENOTING WHERE PULLSTRING LEAS TO (i.e "to MDP PANEL).
- Q. CONTRACTOR SHALL EXPECT TO MAKE SOME ROUTING ADJUSTMENTS DURING THE COURSE OF CONSTRUCTION. COORDINATE CHANGES WITH ENGINEER AND KEEP RECORD OF CHANGES FOR AS-BUILT.
- N. EXISTING LIGHTING BRANCH CIRCUITS SHOWN TO BE REUSED IN ELECTRICAL PLANS WERE OBTAINED FROM EXISTING ELECTRICAL RECORD DRAWINGS AND SITE INVESTIGATION. CONTRACTOR SHALL VERIFY THAT EACH OF THE EXISTING BRANCH CIRCUITS ARE PRESENT IN THE WORK AREA BEFORE COMMENCING ANY WORK. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS WITH ALL CIRCUITS IDENTIFIED UPON COMPLETION OF ELECTRICAL WORK.
- O. ALL PENETRATIONS IN EXISTING ROOM WALLS MUST BE REPAIRED AND PROVIDED WITH LEAD LINED ACCESSORIES TO MAINTAIN THE EXISTING SHIELDING RATINGS. CONTRACTOR MUST VERIFY LEAD SHIELDING EQUIVALENCY REQUIREMENT WITH OWNER PRIOR ORDERING BOXES.
- P. CONTRACTOR SHALL PROVIDE AND INSTALL NEW UPDATED TYPED PANEL DIRECTIONS TO ALL EXISTING PANELBOARDS AFFECTED BY EITHER DEMOLITION OR NEW WORK. PANELBOARD SHALL IDENTIFIED THE ROOM NUMBER WHERE CIRCUITS ORIGINATE.



DEMOLITION GENERAL NOTES:

- A. DEMOLITION PLANS ARE BASED ON EXISTING RECORD PLANS AND FIELD INVESTIGATION. EXISTING CONDITIONS SHOWN IN DEMOLITION PLAN ARE NOT INTENDED TO BE ALL INCLUSIVE NOR NECESSARILY ACCURATE. DEMOLITION WORK IS SHOWN FOR GENERAL SCHEMATIC REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT SITE TO BECOME FAMILIAR WITH THE EXTENT OF DEMOLITION WORK AND REVIEW ALL EXISTING CONDITIONS BEFORE SUBMITTING A BID.
- B. CONTRACTOR MUST COORDINATE WITH MECHANICAL PLANS FOR ALL EXISTING HVAC EQUIPMENT BEING REMOVED. CONTRACTOR MUST REMOVED DISCONNECT, CIRCUIT, CONDUIT, CONTROL WIRING, AND ASSOCIATED CONTROLS.
- C. DASHED ARCHITECTURAL LINES INDICATE WALLS, DOORS, CEILINGS, ETC. TO BE DEMOLISHED BY OTHERS.
- D. REMOVE, RELOCATE, AND EXTEND EXISTING ELECTRICAL SYSTEMS AND DEVICES AS NECESSARY TO ACCOMMODATE NEW CONSTRUCTION. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS, OR AS SPECIFIED.
- E. REMOVED ALL ABANDONED ACCESSIBLE CONDUIT AND WIRING BACK TO SOURCE OF SUPPLY.
- F. EXISTING OUTLETS WHICH ARE TO BE REMOVED AND HAVE CONDUITS RISING FROM THE FLOOR SLAB SHALL HAVE THE CONDUITS CUT BELOW FLOOR LEVEL. ABANDON OR REWORK AS REQUIRED TO PROVIDE FEED-THROUGH SERVICE TO OTHER REMAINING OUTLETS. PULL NEW WIRE BETWEEN REMAINING OUTLETS AFFECTED BY FEED-THROUGH. PATCH FLOOR AS REQUIRED TO RESTORE TO ORIGINAL CONDITION.
- G. ABANDONED OUTLET BOXES SHALL BE CLOSED WITH BLANK STAINLESS STEEL COVER PLATES. IF EQUIPPED WITH DEVICES, THE DEVICES SHALL BE REMOVED, AND THE CONDUCTORS REMOVED TO THE ADJACENT OUTLET OR RECONNECTED AS REQUIRED TO PROVIDE FEED-THROUGH SERVICE.
- H. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRING FEEDING REMOVED LIGHTS BACK TO SOURCE OR TO FIXTURES TO BE REMOVED. DISCONNECT ALL DEVICES IN OR ON WALLS TO BE REMOVED. ALL EXISTING WIRING SYSTEMS WHICH ARE DISCONNECTED AND DESIGNATED FOR REMOVAL SHALL BE COMPLETELY REMOVED BACK TO SOURCE.
- I. PULL CONDUCTORS FROM ABANDONED CONCEALED RACEWAY SYSTEMS. ANY SECTION OF RACEWAY SYSTEM EXPOSED DUE TO REMODELING SHALL BE CUT FLUSH AT EXPOSING SURFACE. CONCEALED RACEWAYS NEED NOT BE REMOVED EXCEPT WHERE THEY INTERFERE WITH REMODELING.
- J. DISCONNECT ALL ELECTRICAL CONNECTIONS TO EQUIPMENT DESIGNATED TO BE REMOVED BY OTHER SUBCONTRACTORS.
- K. ALL EXISTING ELECTRICAL DEVICES WHICH INTERFERE WITH THE WORK OF THE ELECTRICAL, GENERAL, STRUCTURAL, PLUMBING, MECHANICAL, FIRE PROTECTION, OR OTHER CONTRACTORS SHALL BE REWORKED AS REQUIRED TO MAINTAIN SYSTEM OPERATION AND FACILITATE THE SCHEDULED WORK.
- L. ALL ELECTRICAL DEVICES THAT ARE TO BE RELOCATED SHALL BE CAREFULLY REMOVED, STORED, AND INSTALLED IN NEW LOCATION AND RECONNECTED.
- M. PROVIDE NEW UPDATED TYPED CIRCUIT DIRECTORY IN PANELBOARDS THAT HAVE BEEN AFFECTED BY THE DEMOLITION WORK. DIRECTORY SHALL IDENTIFY ALL CIRCUITS. WHEN A CIRCUIT IS REMOVED FROM PANELBOARD, CONTRACTOR SHALL TURN OFF ASSOCIATED CIRCUIT BREAKER AND MARK AS 'SPARE'.
- N. REPAIR ADJACENT CONSTRUCTIONS AND FINISHED DAMAGED OR MODIFIED DURING DEMOLITION AND EXTENSION WORK.
- O. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.
- P. PROVIDE SUPPLEMENTAL SUPPORT FOR CONDUITS THAT ARE ROUTED THROUGH DEMOLITION AREA AND ARE TO REMAIN. SUPPLEMENTAL SUPPORT SHALL BE ADDED SO THAT THE CONDUIT MEETS THE SUPPORT REQUIREMENTS OF ELECTRICAL SPECIFICATIONS.
- Q. CONTRACTOR IS RESPONSIBLE TO DISPOSE ALL ELECTRICAL MATERIALS ACCORDING TO LOCAL, STATE, AND FEDERAL REGULATIONS.



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GENERAL NOTES

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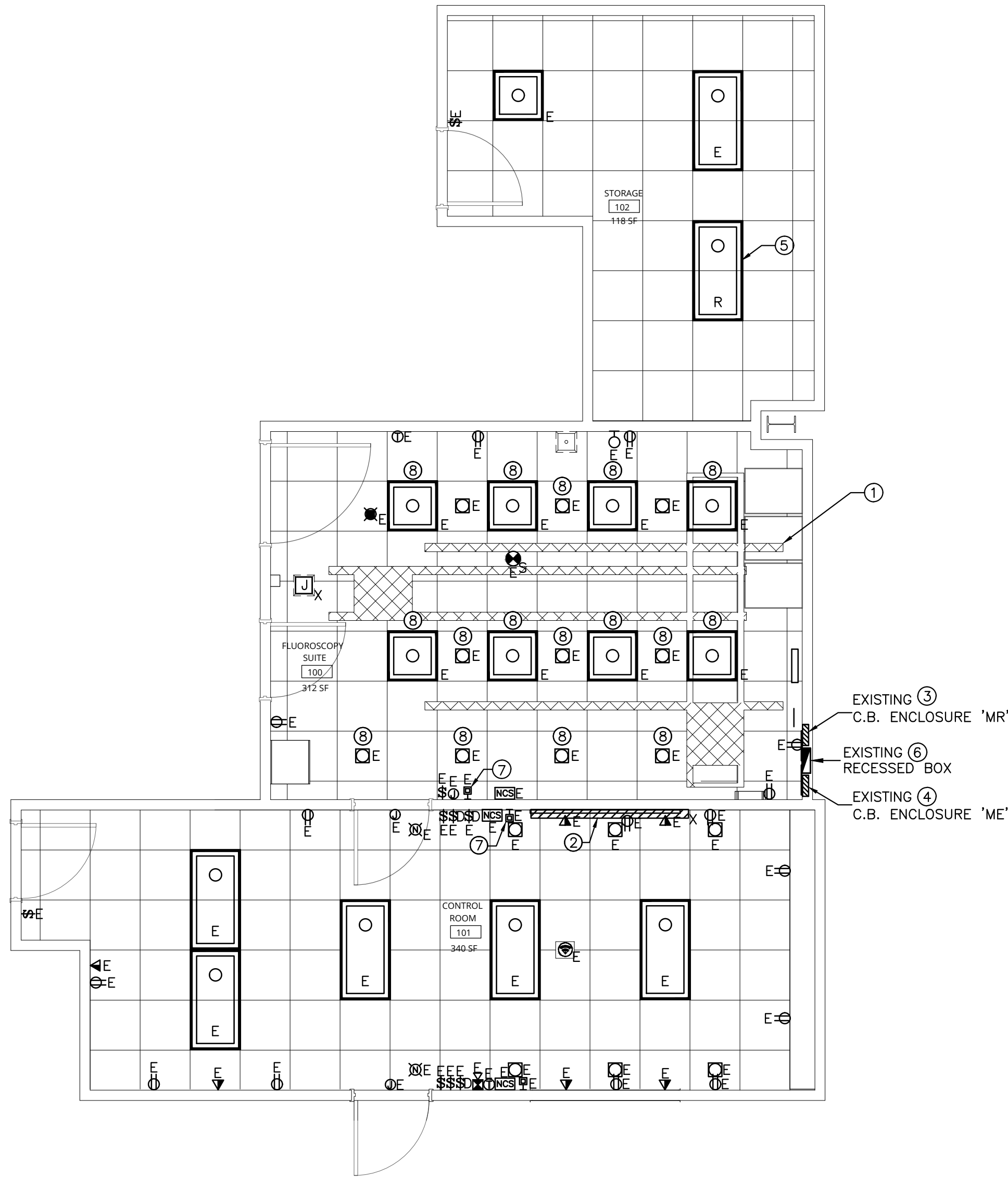
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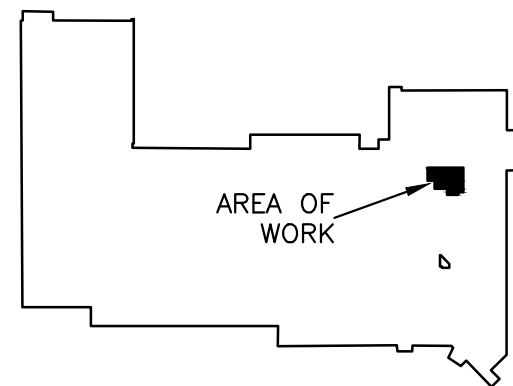
01 DEMOLITION PLAN
1/4" = 1'-0"

DEMOLITION KEYED NOTES :

- EXISTING IMAGING EQUIPMENT TO BE COMPLETELY REMOVED. REMOVE ALL ASSOCIATED WIRING, ACCESSIBLE RACEWAYS ACCESSIBLE BOXES AND ALL ASSOCIATED ELECTRICAL DEVICES.
- EXISTING HORIZONTAL RACEWAYS TO BE REMOVED. REMOVE ALL ASSOCIATED WIRING AND ACCESSIBLE RACEWAYS.
- EXISTING SQUARE D ENCLOSED CIRCUIT BREAKER 'MR' 100AMP/3P, 480V, 3PH, 3W, TO BE COMPLETELY REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO BOX LOCATED ON TOP OF CIRCUIT BREAKER. CONTRACTOR SHALL PROVIDE AND INSTALL NEW LEAD AS NECESSARY TO MAINTAIN SHIELDING RATING.
- EXISTING SQUARE D ENCLOSED CIRCUIT BREAKER 'ME' 30AMP/3P, 480V, 3PH, 3W, TO BE COMPLETELY REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO BOX LOCATED ON TOP OF CIRCUIT BREAKER. CONTRACTOR SHALL PROVIDE AND INSTALL NEW LEAD AS NECESSARY TO MAINTAIN SHIELDING RATING.
- EXISTING 2X4 LIGHT FIXTURE TO BE RELOCATED AND CONTROLLED BY NEW LIGHTING SWITCH.
- EXISTING RECESSED SPLICE BOX LOCATED ON TOP OF EXISTING ENCLOSED CIRCUIT BREAKERS TO REMAIN. EXISTING BOX CONTAINS EXISTING CONDUCTORS FROM A 200AMP/3P, C.B. IN EXISTING 600AMP, 277/480V, 3PH, 4W, CRITICAL BRANCH PANELBOARD 1CH-IMG. CONTRACTOR SHALL MAINTAIN AND EXTEND SUCH CONDUCTORS FOR POWER TO NEW PANELBOARD 'MP' SEE DEMOLITION RISER DIAGRAM ON SHEET E104 FOR MORE DETAILS.
- CONTRACTOR SHALL MAINTAIN EXISTING 120V CONTROL CIRCUIT AND BOX FOR NEW EMERGENCY PUSH BUTTONS. SEE ELECTRICAL ROUGH-IN PLAN FOR NEW REQUIREMENTS.
- ALL EXISTING LIGHT FIXTURES IN FLUOROSCOPY ROOM MUST BE INTERCONNECTED WITH NEW SIEMENS CABINET 'SC1'. CONTRACTOR SHALL PROVIDE A 24V DC RELAY CONNECTED IN SERIES WITH EXISTING ROOM LIGHT SWITCH(S). REFER TO LIGHTING DETAIL ON SHEET E104 FOR REQUIREMENTS.

ELECTRICAL DEMOLITION SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	EXISTING 2X4 FIXTURE TO REMAIN.
	EXISTING 2X2 FIXTURE TO REMAIN.
	EXISTING DOWNLIGHT FIXTURE TO REMAIN.
	EXISTING DIMMER SWITCH TO REMAIN. ENSURE CIRCUIT CONTINUITY
	EXISTING LIGHT SWITCH TO REMAIN
	EXISTING DUPLEX GFCI RECEPTACLE TO REMAIN.
	EXISTING DUPLEX RECEPTACLE CURRENTLY CONNECTED TO NORMAL BRANCH CIRCUIT TO REMAIN. ENSURE CIRCUIT CONTINUITY.
	EXISTING DATA BOX TO REMAIN
	EXISTING CT SCAN OR XRAY EMERGENCY PUSH BUTTON TO REMAIN.
	EXISTING JUNCTION BOX TO REMAIN
	EXISTING THERMOSTAT TO REMAIN. SEE MECHANICAL PLANS FOR REQUIREMENTS
	EXISTING NURSE CALL SYSTEM TO REMAIN.
	EXISTING NURSE CALL LIGHT TO REMAIN.
	EXISTING ELECTRICAL PANELBOARD. SEE PLANS FOR REQUIREMENTS.
	EXISTING FIRE ALARM HORN/STROBE TO REMAIN.
	EXISTING SMOKE DETECTOR TO REMAIN.
	EXISTING RACEWAY TO BE REMOVED.
	EXISTING CEILING BOX TO BE REMOVED. REMOVE ASSOCIATED CIRCUIT AND CONDUIT. REPLACE EXISTING CEILING TITLES AS NECESSARY.

KEY PLAN



Countryman & Co.
Architecture

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PROJECT NO: 2023-18
ISSUED: 9-22-2023

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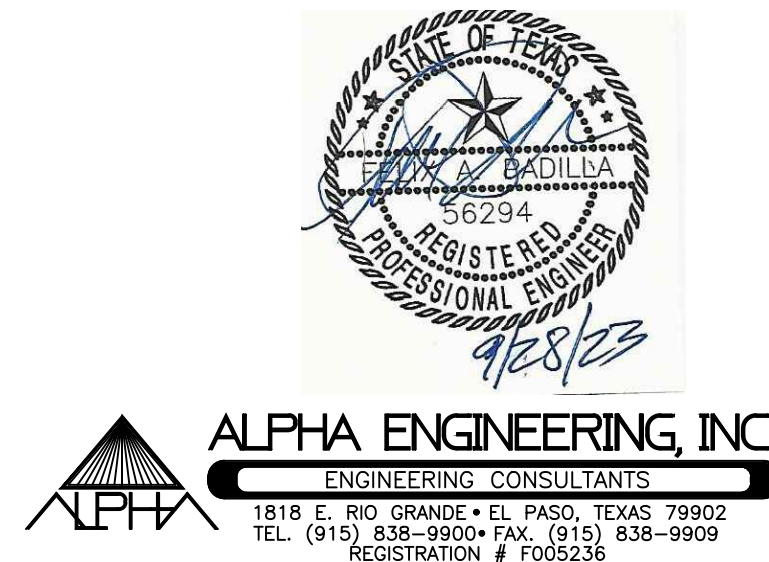
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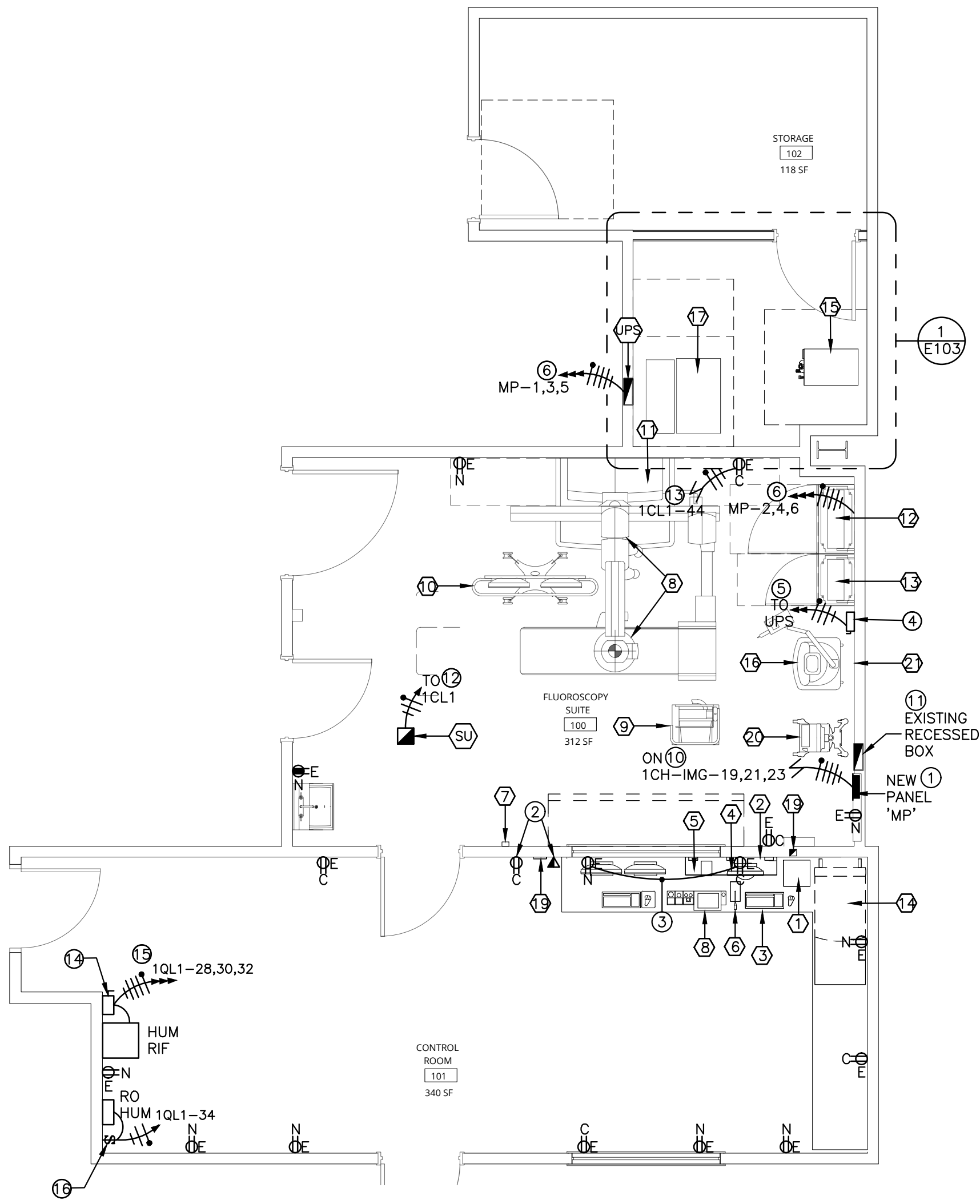
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DEMOLITION PLAN

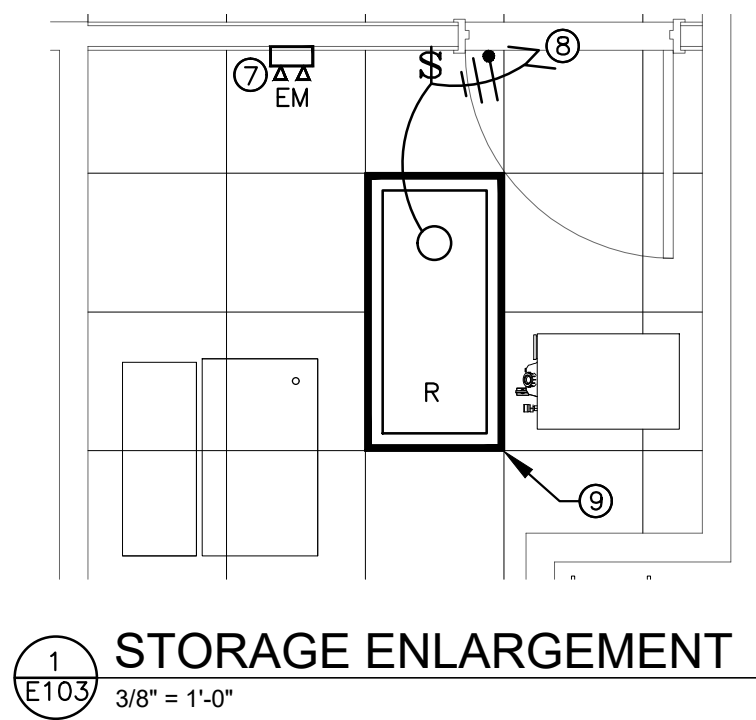


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E101



01 EQUIPMENT POWER PLAN
1/4" = 1'-0"



1 STORAGE ENLARGEMENT
3/8" = 1'-0"

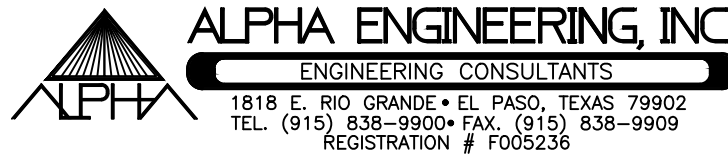
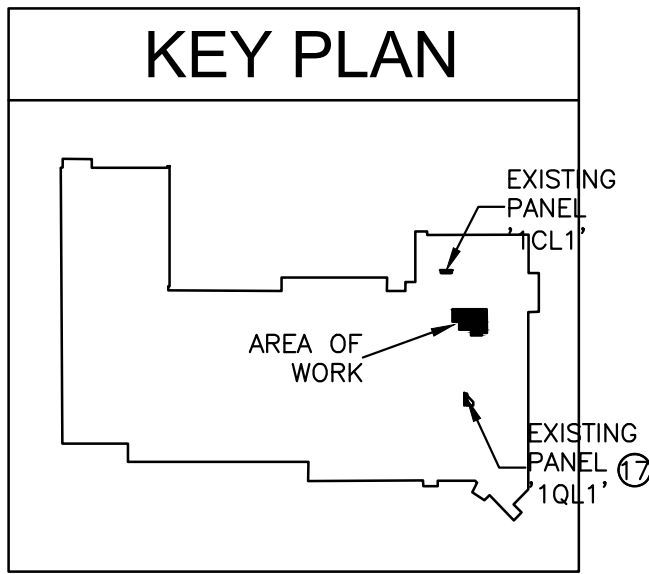
KEYED NOTES:

- PROVIDE AND INSTALL A NEW 125AMP, 277/480V, 3PH, 4W, PANELBOARD 'MP' WITH A 125AMP SHUNT TRIP BREAKER. SEE POWER SCHEDULE ON SHEET E104 FOR REQUIREMENTS. CONTRACTOR SHALL INSTALL NEW PANEL RECESSED IN WALL. PROVIDE LEAD SHEET AROUND BOX TO MAINTAIN SHIELDING RATINGS. REFER TO POWER SCHEDULE ON SHEET E104 FOR ADDITIONAL REQUIREMENTS.
- PROVIDE AND INSTALL NEW RECEPTACLE AND DATA OUTLET FOR NEW EATON REMOTE MONITORING DEVICE. CUT, PATCH, AND PAINT EXISTING WALL AS NECESSARY.
- CONNECT NEW RECEPTACLE TO THE EXISTING CRITICAL BRANCH CIRCUIT 1CL1-44 CURRENTLY SERVING EXISTING RECEPTACLES. EXTEND EXISTING CIRCUIT AND CONDUIT AS NECESSARY.
- PROVIDE AND INSTALL A 30AMP, 600V, 3PH, +N/G, HD, FUSIBLE DISCONNECT SWITCH WITHIN 10'-0" FROM SIEMENS CABINET 'SC1'. PROVIDE DISCONNECT WITH 30A RK5 FUSES, MAKE CONNECTIONS TO SC1 SIEMENS WITH A 3/4" FLEXIBLE CONDUIT WITH 3-#10 THWN. CU. CONDERS. AND 1-#10 CU. GND.
- HOME RUN CIRCUIT TO NEW 15KVA UPS LOCATED IN STORAGE ROOM. REFER TO ELECTRICAL ROUGH-IN ON SHEET E103 FOR MORE REQUIREMENTS.
- HOME RUN CIRCUIT TO NEW PANELBOARD 'MP' REFER TO ELECTRICAL ROUGH-IN ON SHEET E103 FOR MORE REQUIREMENTS.
- CONNECT EMERGENCY LIGHT BATTERY PACK TO THE UNSWITCHED HOT CONDUCTOR SERVING IN THIS AREA. EXTEND EXISTING LIGHTING CIRCUIT AND CONDUIT AS NECESSARY TO MAKE CONNECTIONS.
- CONNECT NEW SWITCH TO THE EXITING UNSWITCHED LIGHTING HOT CONDUCTOR SERVING THIS AREA. EXTEND EXISTING AND CONDUIT AS REQUIRED.
- RELOCATE EXISTING LIGHTING FIXTURE TO THIS LOCATION. RELOCATED LIGHT FIXTURE TO BE CONNECTED AND CONTROLLED BY NEW SWITCH AS SHOWN.
- CONNECT NEW PANELBOARD 'MP' TO THE EXISTING BRANCH CIRCUIT ICH-IMG-19,21,23 LOCATED IN EXISTING RECESSED BOX ON TOP. PROVIDE AND INSTALL A NEW 2" C. WITH 4-#1/0 THWN. CU. CONDERS. AND 1-#4 CU. GND FROM PANEL 'MP' TO BOX AND MAKE CONNECTIONS TO EXISTING CONDUCTORS AS REQUIRED.
- EXISTING RECESSED BOX WITH EXISTING CONDUCTORS FROM CRITICAL BRANCH PANELBOARD 1CH-IMG-19,21,23 TO REMAIN. CONTRACTOR MUST ENSURE THAT EXISTING CONDUCTORS ARE #3/0 CU. MINIMUM AND EQUIPMENT GROUNDING CONDUCTOR IS #6 CU. MINIMUM. CONTRACTOR SHALL ALSO ENSURE THERE IS AN EXISTING #3/0 CU. MIN CONDUCTOR. REPLACE OR ADD CONDUCTORS AS NECESSARY.
- CONTRACTOR SHALL PROVIDE A NEW 20A, 120V, CIRCUIT FROM EXISTING CRITICAL BRANCH PANELBOARD 1CL1 FOR POWER TO NEW SIEMENS MAVIS LAMP. INSTALL A NEW 20A/1P CIRCUIT BREAKER IN EXISTING PANEL AND PROVIDE AN UPDATED TYPE PANEL DIRECTORY.
- CONTRACTOR TO EXTEND EXISTING CRITICAL BRANCH CIRCUIT 1CL1-44 FROM EXISTING RECEPTACLE TO NEW 24V DC POWER SUPPLY PROVIDED BY THIS CONTRACTOR. SEE LIGHTING DETAIL ON SHEET E104 FOR MORE REQUIREMENTS.
- PROVIDE AND INSTALL A 30AMP, 240V, 3PH, 3POLE, HD, NON-FUSED DISCONNECT FOR POWER TO NEW HUMIDIFIER. MAKE CONNECTIONS WITH A 3/4" FLEXIBLE CONDUIT.
- HOME RUN CIRCUIT TO EXISTING EMERGENCY EQUIPMENT BRANCH PANELBOARD '1QL1' LOCATED IN ELECTRICAL ROOM LOCATED IN THE BLOOD COLLECTION AREA. USE A 3/4" CONDUIT WITH 3-#10 THWN. CU. CONDUCTORS AND 1-#10 CU. GND. CONTRACTOR SHALL INSTALL NEW CONDUIT ABOVE EXISTING CEILING BACK TO EXISTING PANEL. FIELD COORDINATE EXACT CONDUIT ROUTE TO AVOID CONFLICTS WITH SITE CONDITIONS. SEE NOTE #17 FOR APPROXIMATE LOCATION OF EXISTING EMERGENCY EQUIPMENT BRANCH PANELBOARD '1QL1'.
- PROVIDE AND INSTALL A 20AMP, 120V, TOGGLE SWITCH FOR POWER TO NEW RO WATER TREATMENT SYSTEM. INSTALL SWITCH ADJACENT TO WATER TREATMENT AND MAKE CONNECTIONS AS REQUIRED. USE A 1/2" CONDUIT WITH 2-#12 THWN. CU. CONDERS. AND 1-#12 CU. GND. CONTRACTOR SHALL INSTALL NEW CONDUIT ABOVE EXISTING CEILING BACK TO EXISTING PANEL. FIELD COORDINATE EXACT CONDUIT ROUTE TO AVOID CONFLICTS WITH SITE CONDITIONS. SEE NOTE #17 FOR APPROXIMATE LOCATION OF EXISTING EMERGENCY EQUIPMENT BRANCH PANELBOARD '1QL1'.
- APPROXIMATE LOCATION OF EXISTING EMERGENCY EQUIPMENT BRANCH PANEL '1QL1' IN ELECTRICAL ROOM LOCATED IN THE BLOOD COLLECTION AREA. CONTRACTOR SHALL REPLACE THE (3) EXISTING 20A/1P SPARE CIRCUIT BREAKERS INSTALLED ON CKTS 28, 30, AND 32 WITH A NEW 25A/3P CIRCUIT BREAKER FOR POWER TO NEW HUMIDIFIER. CONTRACTOR SHALL ALSO REPLACE THE EXISTING 20A/1P SPARE CIRCUIT BREAKER INSTALL ON CKT #34 WITH A NEW 15A/1P CIRCUIT BREAKER FOR POWER TO NEW RO WATER TREATMENT SYSTEM.

ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
②	KEYED NOTE SYMBOL-ELECTRICAL
—X—	RACEWAY TAG DETAIL
Ⓢ	EQUIPMENT TAG
—	ELECTRICAL OR DATA RACEWAY IN WALLS OR CEILINGS.
----	UNDERGROUND ELECTRICAL OR DATA RACEWAY. SEE PLANS FOR REQUIREMENTS.
|||||	EXISTING PANEL BOARD TO REMAIN. NO WORK REQUIRED UNLESS OTHERWISE NOTED.
—E _{UG} —	ELECTRICAL UNDERGROUND CIRCUIT, 2'-0" MINIMUM BELOW GRADE.
---UG---	UNDERGROUND CONDUIT, 2'-0" MINIMUM BELOW GRADE.
■	PULLBOX IN (FLOOR/WALL/CEILING)
□	OPENING IN ACCESS FLOORING
ⓈWL	120-277V WARNING LIGHT (X-RAY ON)
Ⓢ	DOOR SAFETY SWITCH
Ⓢ	(EPO) EMERGENCY POWER OFF BUTTON
|||||	TRENCHDUCT
|||||	CEILING DUCT
|||||	UNDER FLOOR DUCT
|||||	SURFACE DUCT
ⓈC	NEW 110V, 20AMP, HOSPITAL GRADE DUPLEX RECEPTACLE CONNECTED TO CRITICAL BRANCH CIRCUIT. PROVIDE WITH A STAINLESS STEEL COVER WITH THE NAME OF PANEL AND CIRCUIT ENGRAVED ON COVER.
▲	PROVIDE AND INSTALL A 4" SQ BOX FLUSHED TO FINISH WALL WITH SINGLE DEVICE PLASTER RING RJ45 CONNECTOR, AND STAINLESS STEEL FACE PLATE. INSTALL A 1" CONDUIT FROM BOX TO ABOVE CEILING. INSTALL A CAT(5) NETWORK CABLE FROM CONNECTOR TO CUSTOMER'S INFORMATION SYSTEM NETWORK. COORDINATE WITH UMC TECHNOLOGY REPRESENTATIVE.
■	NEW ELECTRICAL PANELBOARD
PH—N PH—G	DENOTES NEW CIRCUIT HOME RUN.
PH—N PH—G	DENOTES EXISTING CIRCUIT LOCATED IN THE AREA OF WORK. INTERCEPT AND EXTEND EXISTING CIRCUIT AND CONDUIT AS NECESSARY TO MAKE CONNECTIONS TO NEW ELECTRICAL DEVICES.
ⓈEM	NEW WALL MOUNTED EMERGENCY LIGHT SURE LIGHTS MODEL SL2.5 MOUNT AT 8'-6" A.F.F.
ⓈA	EXISTING 2X4 FIXTURE.
Ⓢ	SINGLE POLE WALL SWITCH, 48" TO TOP OF BOX. UNLESS OTHERWISE NOTED.
ⓈN	EXISTING NORMAL BRANCH CIRCUIT RECEPTACLE TO REMAIN.
ⓈC	EXISTING CRITICAL BRANCH CIRCUIT RECEPTACLE TO REMAIN.

EXISTING EQUIPMENT BRANCH PANEL 1QL1 LOAD CALCULATIONS	
	LOAD (AMPS)
EXISTING LOAD	18
NEW HUMIDIFIER	20
NEW RO SYTEM	7
TOTAL	45 AMPS
• EXISTING EMERGENCY EQUIPMENT BRANCH PANEL 1QL1 100A 120/208V, 3PH, 4W IS SUFFICIENTLY SIZED TO SERVE NEW AND EXISTING LOADS	

EQUIPMENT LEGEND		
NO	DESCRIPTION	REMARKS
①	ACE (ARCHIVE CONTROL EXTENSION)	MTD. ON CONTROL COUNTER
②	CONTROL ROOM DISTRIBUTOR	MTD. ON WALL
③	KEYBOARD	MTD. UNDER COUNTER OR ON CONSOLE
④	19" LIVE DISPLAY	ON COUNTER OR CONSOLE
⑤	INTERCOM POWER UNIT	ON COUNTER
⑥	INTERCOM MICROPHONE/LOUDSPEAKER (CONTROL ROOM)	ON COUNTER
⑦	INTERCOM LOUDSPEAKER (PROCEDURE ROOM)	WALL MOUNTED
⑧	2ND. TABLE CONTROL MODULES	ON COUNTER
⑨	TROLLEY FOR CONTROL MODULES	MOUNTED ON CASTERS
⑩	MONITOR CART WITH (2) 19" FLAT SCREEN DISPLAY	MOUNTED ON CASTERS
⑪	ARTIS ZEE MULTI-PURPOSE UNIT	FLOOR MOUNTED
⑫	POLYDOROS A100 (POWER UNIT 1)	FLOOR MOUNTED
⑬	SYSTEM CONTROL CABINET	FLOOR MOUNTED
⑭	AXIS IMAGE SYSTEM	MTD. ON CASTERS
⑮	TUBE COOLING UNIT	FLOOR OR SHELF MOUNTED
⑯	ANGIOMAT ILLUMENA INJECTOR INTEGRATED PEDESTAL MOUNTED	SEE MFG REQUIREMENTS
⑰	EATON 9355 15KVA UPS AND BATTERY	SEE MFG REQUIREMENTS
⑱	EATON 9355 OUTPUT TRANSFORMER CABINET	SEE MFG REQUIREMENTS
⑲	EATON 9355 REMOTE MONITORING DEVICE	SEE MFG REQUIREMENTS
⑳	TIMS MOBILE CART W/ MONITOR, MIC, KEYBOARD & MOUSE	
㉑	INJECTOR WALL CONNECTION BOX	WALL MOUNTED



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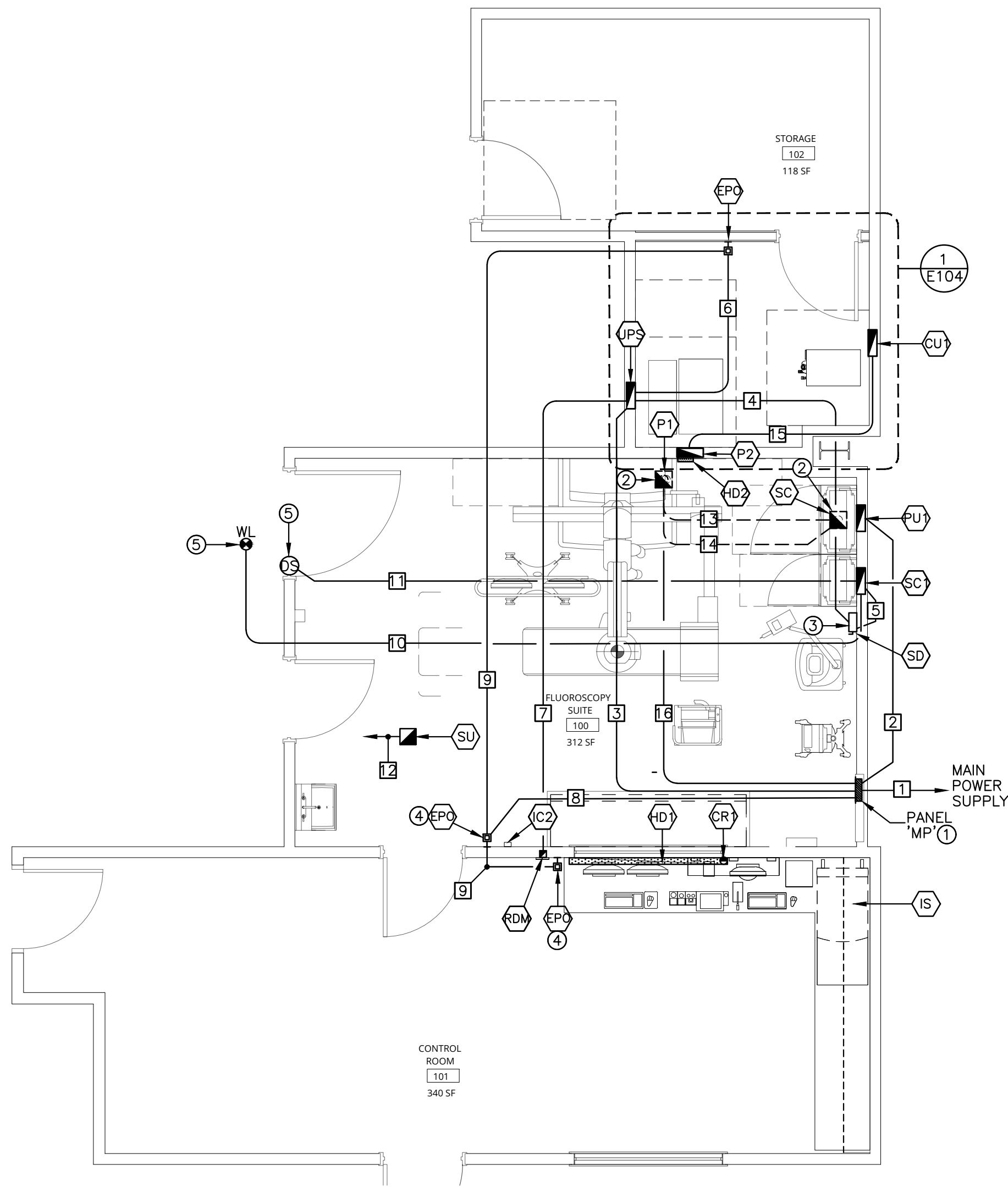
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EQUIPMENT POWER PLAN

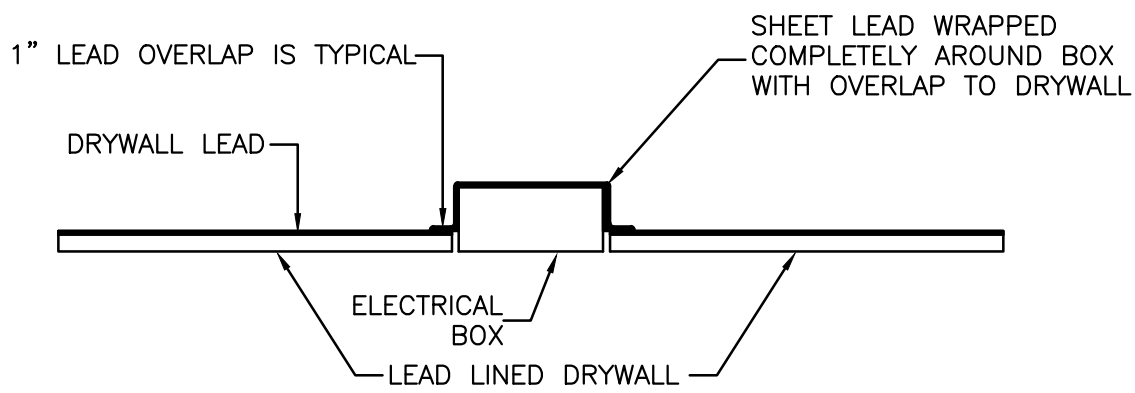
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E102



01 ELECTRICAL ROUGH-IN PLAN
1/4" = 1'-0"

ELECTRICAL ROUGH-IN LEGEND			
SYM	BOX	DESCRIPTION SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR	REMARKS
CR1	3"C	BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	CONTROL ROOM DISTRIBUTOR
CU1	12"x12"x4"D	PULL BOX MOUNTED FLUSH IN FINISHED WALL AT HEIGHT COORDINATED WITH COOLING UNIT SHELF INSTALLATION. PROVIDE BOX WITH REMOVABLE FRONT COVER AND (1) 4" BUSHING IN CENTER OF REMOVABLE COVER FOR CABLE EXIT. SEE PLAN FOR LOCATION.	COOLING UNIT
EPO	4"x4"x2 1/8"D	EMERGENCY OFF BUTTONS FOR PANEL MP MAIN SHUNT TRIP BREAKER. EPO'S MUST PREVENT RESETTING OF CIRCUIT BREAKERS WHEN IN OFF POSITION. EPO'S MUST BE RECESSED OR SHIELDED.	EMERGENCY POWER OFF
P1	8"x8"x6"D	FLOOR PULL BOX TO BE INSTALLED FLUSHED TO FINISH FLOOR. PROVIDE WITH REMOVABLE COVER WITH A 6" BUSHED OPENING.	MP UNIT
P2	12"x12"x4"D	PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE AS SHOWN CONNECTING TO "HD2" FOR COOLING HOSES.	MP UNIT
PU	12"x12"x4"D	PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. PROVIDE BOX WITH REMOVABLE FRONT COVER AND (1) 4" BUSHING FOR CABLE EXIT, BUSHING TO BE LOCATED AT BOTTOM OF REMOVABLE COVER. SEE PLAN FOR LOCATION.	GENERATOR
RMD	2"x4"x2 1/8"D	SINGLE-GANG BOX WITH RJ45 CONNECTOR.	UPS REMOTE DISPLAY
SC1	12"x12"x4"D	PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. PROVIDE BOX WITH REMOVABLE FRONT COVER AND (1) 4" BUSHING FOR CABLE EXIT, BUSHING TO BE LOCATED AT BOTTOM OF REMOVABLE COVER. SEE PLAN FOR LOCATION.	SYSTEM CABINET
SC	8"x8"x6"D	FLOOR PULL BOX TO BE INSTALLED FLUSHED TO FINISH FLOOR. PROVIDE WITH REMOVABLE COVER WITH A 6" BUSHED OPENING.	SYSTEM CABINET
SU	4"x4"x2 1/8"D	PULL BOX MOUNTED ABOVE FINISHED CEILING. CONNECT 6 FOOT LONG FIXTURE WHIP, (EITHER 1/2" OR 3/8" GREENFIELD) TO BOX FOR TERMINATION TO SIEMENS EQUIPMENT AT CEILING LINE.	MAVIG LAMP
UPS	12"x12"x4"D	PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. PROVIDE BOX WITH REMOVABLE FRONT COVER WITH 4" BUSHED OPENING.	15KVA UPS
HD1	3 1/2" X 10"	HORIZONTAL DUCT MOUNTED ON FINISHED WALL AT FLOOR LINE. PROVIDE DUCT WITH REMOVABLE FRONT COVER. CONNECT TO VERTICAL DUCT VD2.	HORIZONTAL WALL DUCT
HD2	3 1/2" X 6"	HORIZONTAL DUCT MOUNTED ON FINISHED WALL AT FLOOR LINE. PROVIDE DUCT WITH REMOVABLE FRONT COVER. CONNECT TO "P2" BOX AS SHOWN.	HORIZONTAL WALL DUCT
VD1/VD2	3 1/2" X 10"	VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR LINE AND EXTEND UP WALL ABOVE FINISHED CEILING. PROVIDE JUNCTION BOX (SIZED BY E.C.) AT TOP OF DUCT FOR CONDUIT TRANSITIONS.	VERTICAL DUCT
SD	2"C	30AMP, 600V, 3PH, +N/G, HD, FUSIBLE SAFETY DISCONNECT FUSED WITH 30A, RKS FUSES.	
1	2"C	1CH-IMG TO NEW PANEL 'MP'. SEE NOTE #6 OF NEW PARTIAL RISER DIAGRAM ON SHEET E104.	SEE CONTRACTOR SUPPLIED CABLES AND POWER SCHEDULE ON THIS SHEET
2	1 1/2"	CONDUIT FROM "MP" TO "PU1"	SEE CONTRACTOR SUPPLIED CABLES AND POWER SCHEDULE ON THIS SHEET
3	3/4"C	CONDUIT FROM "MP" TO "UPS" WITH FLEX CONDUIT FROM UPS BOX TO UPS CABINET.	SEE CONTRACTOR SUPPLIED CABLES AND POWER SCHEDULE ON THIS SHEET
4	3/4"C	CONDUIT FROM "UPS" TO "SC1" DISCONNECT SWITCH WITH FLEX CONDUIT FROM UPS BOX TO OUTPUT XFMR CABINET.	SEE CONTRACTOR SUPPLIED CABLES AND POWER SCHEDULE ON THIS SHEET
5	3/4"C	CONDUIT FROM DISCONNECT SWITCH "SD" TO "SC1"	SEE CONTRACTOR SUPPLIED CABLES AND POWER SCHEDULE ON THIS SHEET
6	1/2"C	CONDUIT FROM "UPS" TO "EPO" WITH FLEX CONDUIT FROM UPS BOX TO UPS CABINET.	SEE CONTRACTOR SUPPLIED CABLES AND POWER SCHEDULE ON THIS SHEET
7	1"C	CONDUIT FROM "RMD" TO "UPS"	SEE CONTRACTOR SUPPLIED CABLES AND POWER SCHEDULE ON THIS SHEET
8	1/2"C	CONDUIT FROM "MP" TO "EPO"	SEE CONTRACTOR SUPPLIED CABLES AND POWER SCHEDULE ON THIS SHEET
9	1/2"C	CONDUIT FROM "EPO" TO "EPO"	SEE CONTRACTOR SUPPLIED CABLES AND POWER SCHEDULE ON THIS SHEET
10	1/2"C	CONDUIT FROM "SC1" TO "WL"	SEE CONTRACTOR SUPPLIED CABLES AND POWER SCHEDULE ON THIS SHEET
11	1/2"C	CONDUIT FROM "SC1" TO "DS"	SEE CONTRACTOR SUPPLIED CABLES AND POWER SCHEDULE ON THIS SHEET
12	1/2"C	CONDUIT FROM 110V, 15A FACILITY POWER SOURCE TO "SU". SEE EQUIPMENT POWER PLAN ON SHEET 103.	SEE CONTRACTOR SUPPLIED CABLES AND POWER SCHEDULE ON THIS SHEET
13	(2) 3"C	CONDUIT FROM "SC" (SC1) TO "P1" UNDER FLOOR	SEE CONTRACTOR SUPPLIED CABLES AND POWER SCHEDULE ON THIS SHEET
14	(1) 2"C (2) 3"C	CONDUIT FROM "SC" (PU1) TO "P1" UNDER FLOOR	SEE CONTRACTOR SUPPLIED CABLES AND POWER SCHEDULE ON THIS SHEET
15	2 1/2"C	CONDUIT FROM "P2" TO "CU1" FOR LIQUID COOLING HOSES	SEE CONTRACTOR SUPPLIED CABLES AND POWER SCHEDULE ON THIS SHEET



NEW RECESSED ELECTRICAL BOX
DETAIL FOR LEAD LINED WALLS

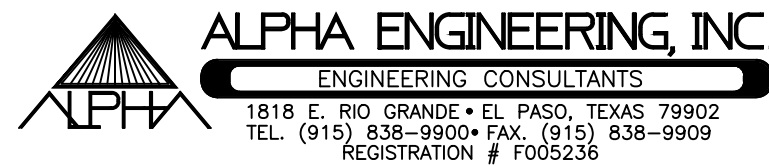
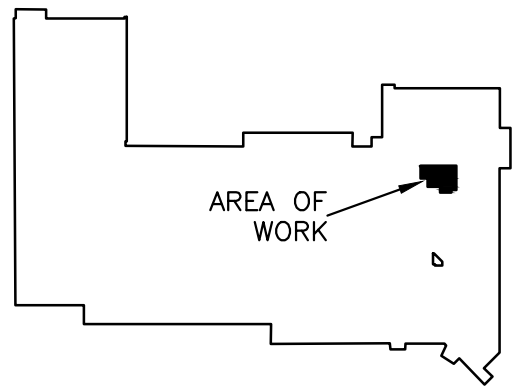
NTS

KEYED NOTES :

- PROVIDE AND INSTALL A NEW 125AMP, 277/480V, 3PH, 4W, PANELBOARD 'MP' WITH A 126AMP SHUNT TRIP BREAKER. SEE POWER SCHEDULE IN THIS SHEET FOR REQUIREMENTS. CONTRACTOR SHALL INSTALL NEW PANEL RECESSED IN WALL. PROVIDE LEAD SHEET AROUND BOX TO MAINTAIN SHIELDING RATINGS. SEE DETAIL IN THIS SHEET.
- CONTRACTOR TO CUT AND PATCH EXISTING FLOOR AS NECESSARY TO INSTALL NEW FLOOR PULLBOX.
- PROVIDE AND INSTALL A 30AMP, 600V, 3PH, +N/G, HD, FUSIBLE DISCONNECT SWITCH WITHIN 10'-0" FROM SIEMENS CABINET 'SC1'. PROVIDE DISCONNECT WITH 30A RKS FUSES, MAKE CONNECTIONS TO SC1 SIEMENS UNIT WITH A 3/4" FLEXIBLE CONDUIT WITH 3-#10 THWN. CU. CONDRS. AND 1-#10 CU. GND.
- INSTALL NEW EMERGENCY OFF BUTTONS ON THE EXISTING WALL BOXES MAINTAINED DURING DEMOLITION. EXTEND AND CONNECT THE EXISTING 120V CONTROL CIRCUIT TO ALL NEW EMERGENCY OFF BUTTONS. SEE POWER SCHEDULE ON SHEET E104 FOR DETAILS.
- NEW WARNING LIGHT AND DOOR SAFETY SWITCH SHALL BE CONTROLLED BY THE NEW SIEMENS SYSTEM CABINET 'SC1'. CONTRACTOR SHALL PROVIDE AND INSTALL NEW 24VDC RELAYS TO MAKE INTERCONNECTIONS TO SYSTEM CABINET. REFER TO LIGHTING DETAIL ON SHEET E104 FOR REQUIREMENTS.

CONTRACTOR SUPPLIED AND INSTALLED CABLES.					
FROM	VIA	TO	DESCRIPTION	SIZE/TYPE OF WIRE	SUPPLIED/INSTALLED
EXISTING PANEL 1CH-IMG	CONDUIT 1	PANEL 'MP'	4-#1/0 THWN. CU. CONDRS. AND 1-#4 CU. GND. COORDINATE WITH NOTE #6 ON NEW PARTIAL ELECTRICAL RISER DIAGRAM	2"C.	CONTRACTOR
PANEL 'MP'	CONDUIT 2	PU1	3-#2 THWN. CU. CONDRS. AND 1-#2 CU. GND	1 1/2"C.	CONTRACTOR
PANEL 'MP'	CONDUIT 3	UPS	4-#10 THWN. CU. CONDRS AND 1-#10 CU. GND.	3/4"C	CONTRACTOR
UPS	CONDUIT 4	SD	3-#10 THWN. CU. CONDRS AND 1-#10 CU. GND.	3/4"C	CONTRACTOR
SD	CONDUIT 5	SC1	3-#10 THWN. CU. CONDRS AND 1-#10 CU. GND.	3/4"C	CONTRACTOR
UPS	CONDUIT 6	EPO	4-#12 THWN. CU. CONDRS 1-#12 CU. GND	1/2"C	CONTRACTOR
RMD	CONDUIT 7	UPS	CAT 5 NETWORK CABLE.	1"C	CONTRACTOR
PANEL 'MP'	CONDUIT 8	EPO	4-#12 THWN. CU. CONDRS 1-#12 CU. GND	1/2"C	CONTRACTOR
EPO	CONDUIT 9	EPO	4-#12 THWN. CU. CONDRS 1-#12 CU. GND	1/2"C	CONTRACTOR
SC1	CONDUIT 10	WL	2-#14 CU. CONDRS.	1/2"C	CONTRACTOR
SC1	CONDUIT 11	DS	2-#14 CU. CONDRS.	1/2"C	CONTRACTOR
PANEL	CONDUIT 12	SU	110V / 20A, 3-WIRES, 2#12 (L,N), PLUS GROUND #12 AWG.	1/2"C	CONTRACTOR

KEY PLAN



Countryman & Co.
Architecture

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DRAWN BY: F.O./A.E.
PROJECT NO: 2023-18
ISSUED: 9-22-2023

REVISION SCHEDULE:

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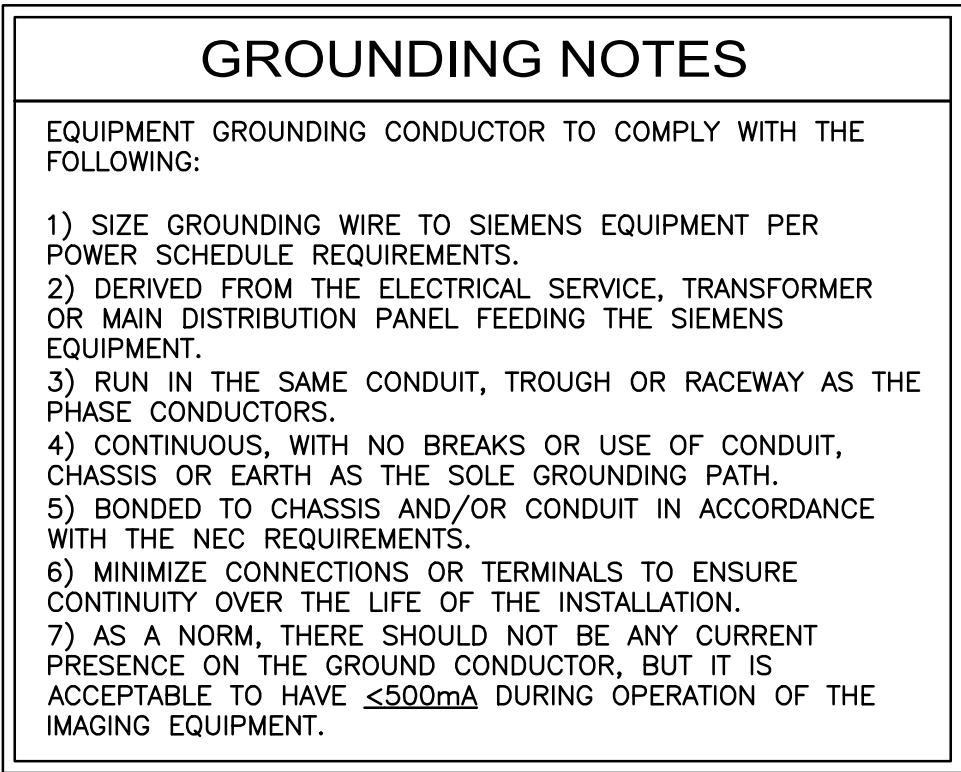
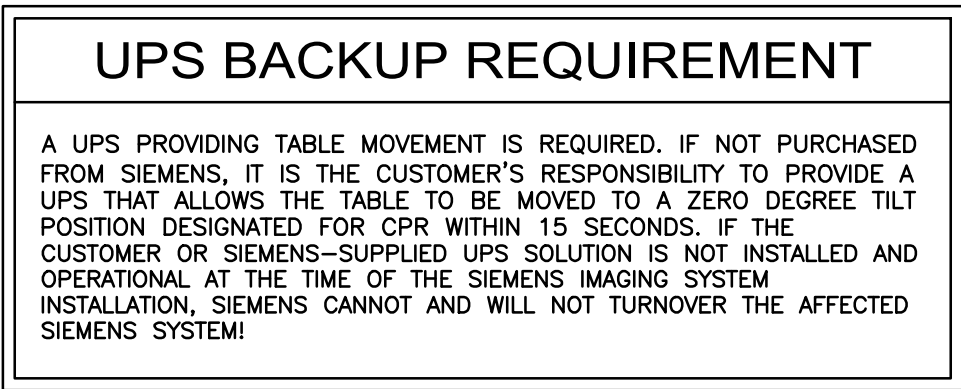
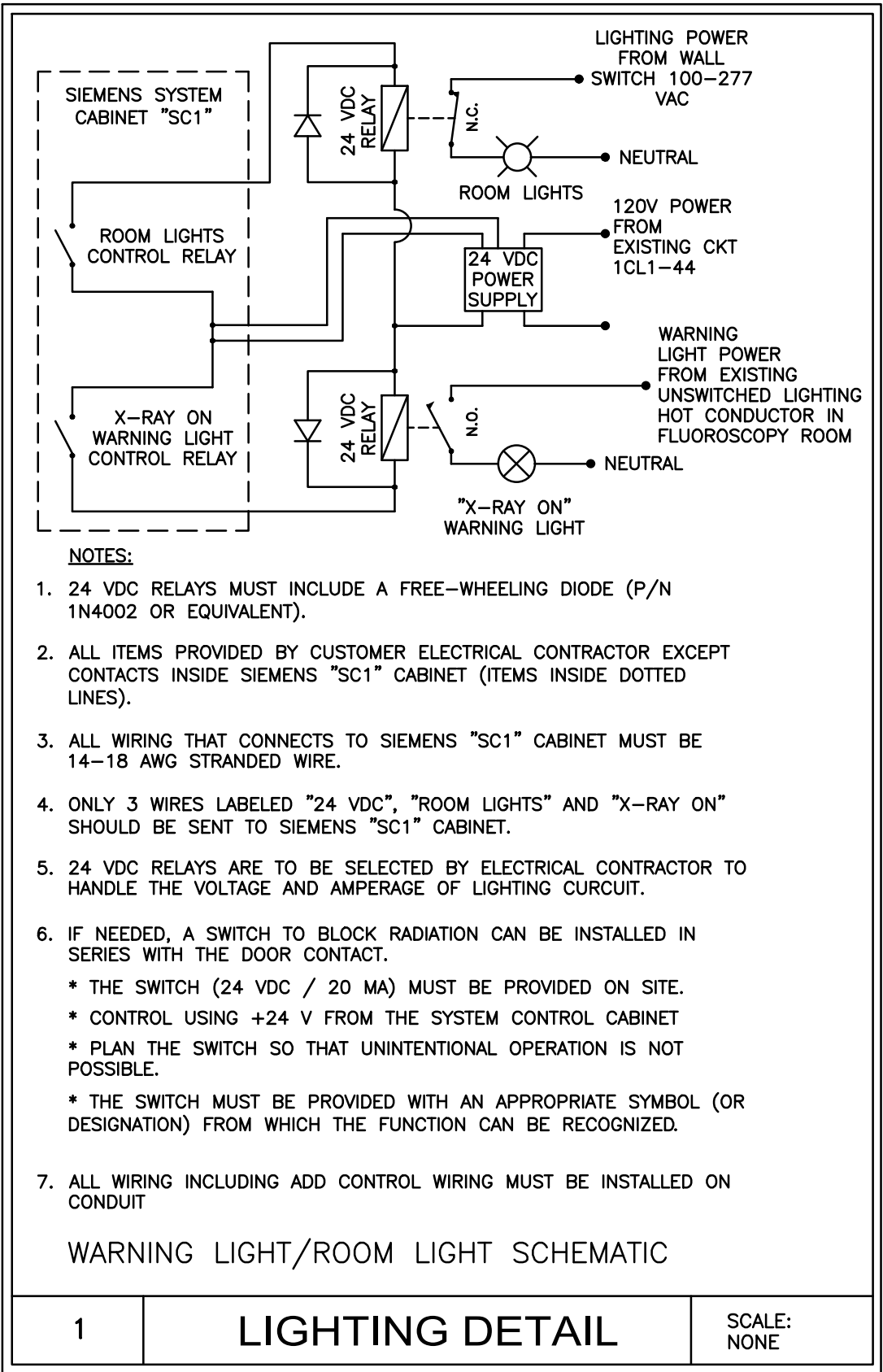
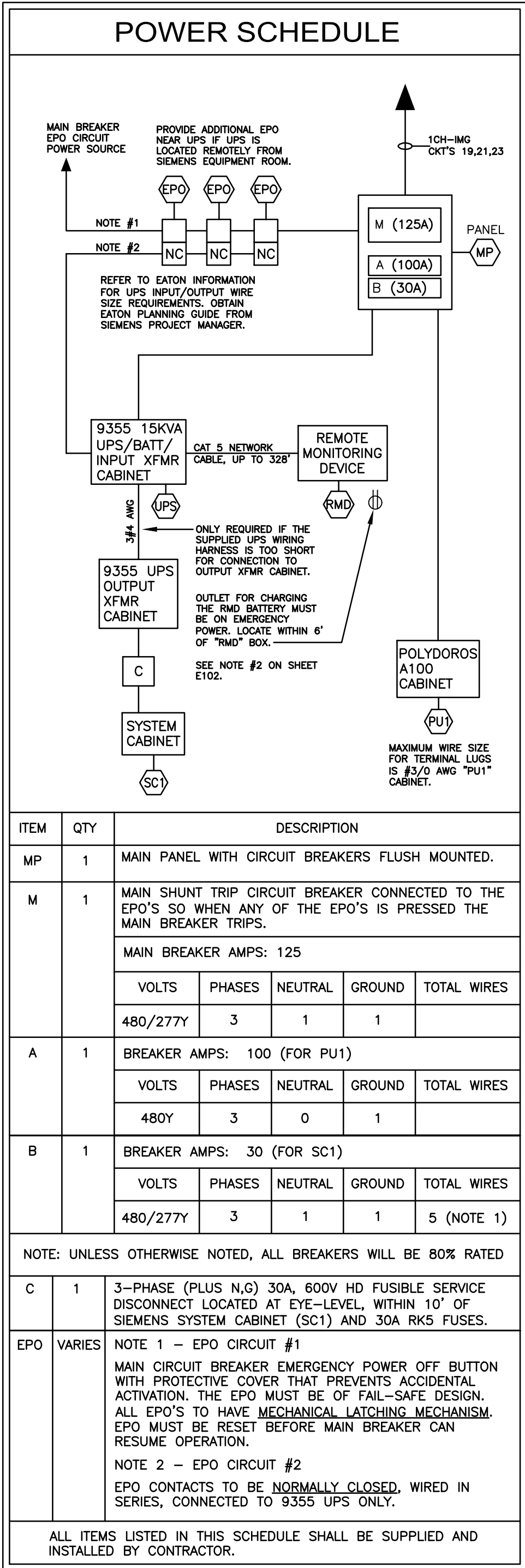
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ELECTRICAL ROUGH-IN PLAN

PERMIT SET

E103



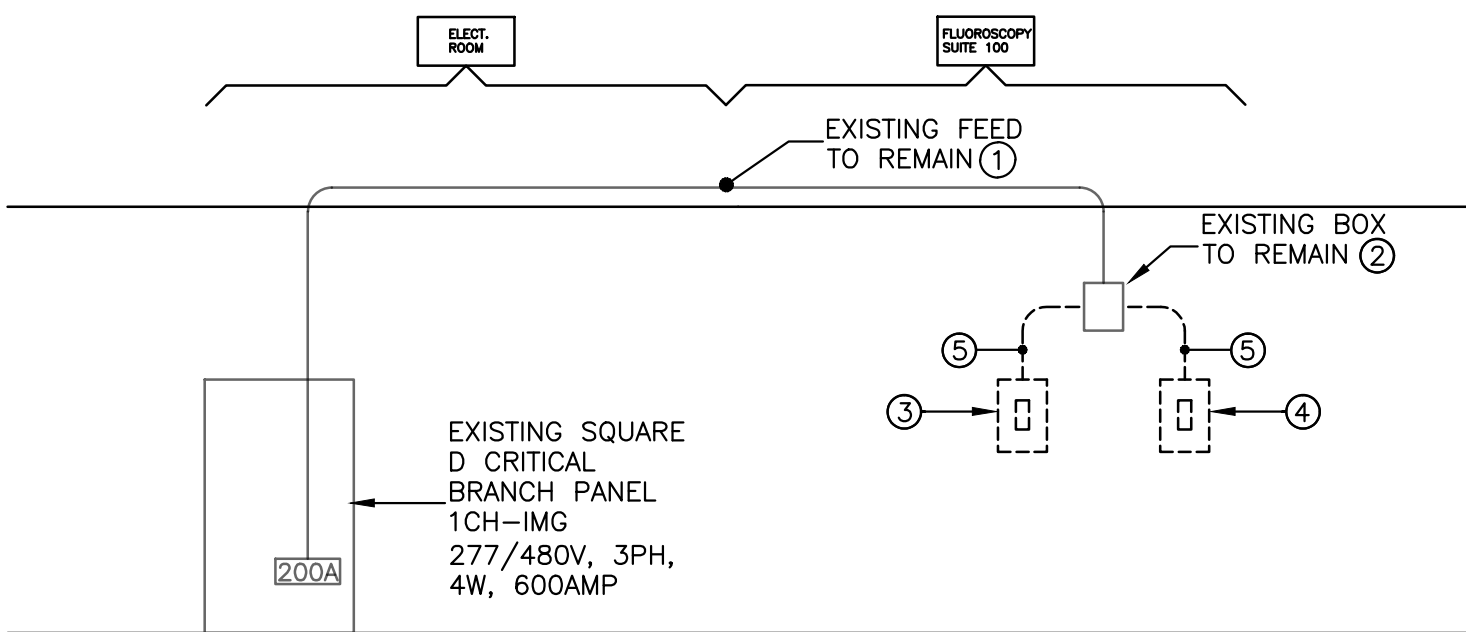
PANELBOARD SCHEDULE									
PANELBOARD "MP": 120/208V, 3 PHASE, 4 WIRE, 125A MAIN SHUNT TRIP C.B. RECESSED MOUNTED, COPPER BUS, DOOR-WITHIN-DOOR, 34KAIC MIN.									
LOAD SERVED	CKT. NO.	BREAKER AMPS, POLE	PHASE A B C	BREAKER AMPS, POLE	CKT. NO.	LOAD SERVED			
POLYDOROS A100 CABINET	1	100		30	2	15 KVA UPS CABINET			
	3				4				
	5	3			6				

PANELBOARD 'MP' LOAD CALCULATIONS

LOAD (VA)	
UPS	15,000
POLYDOROS A100	72,000
TOTAL	87,000 VA

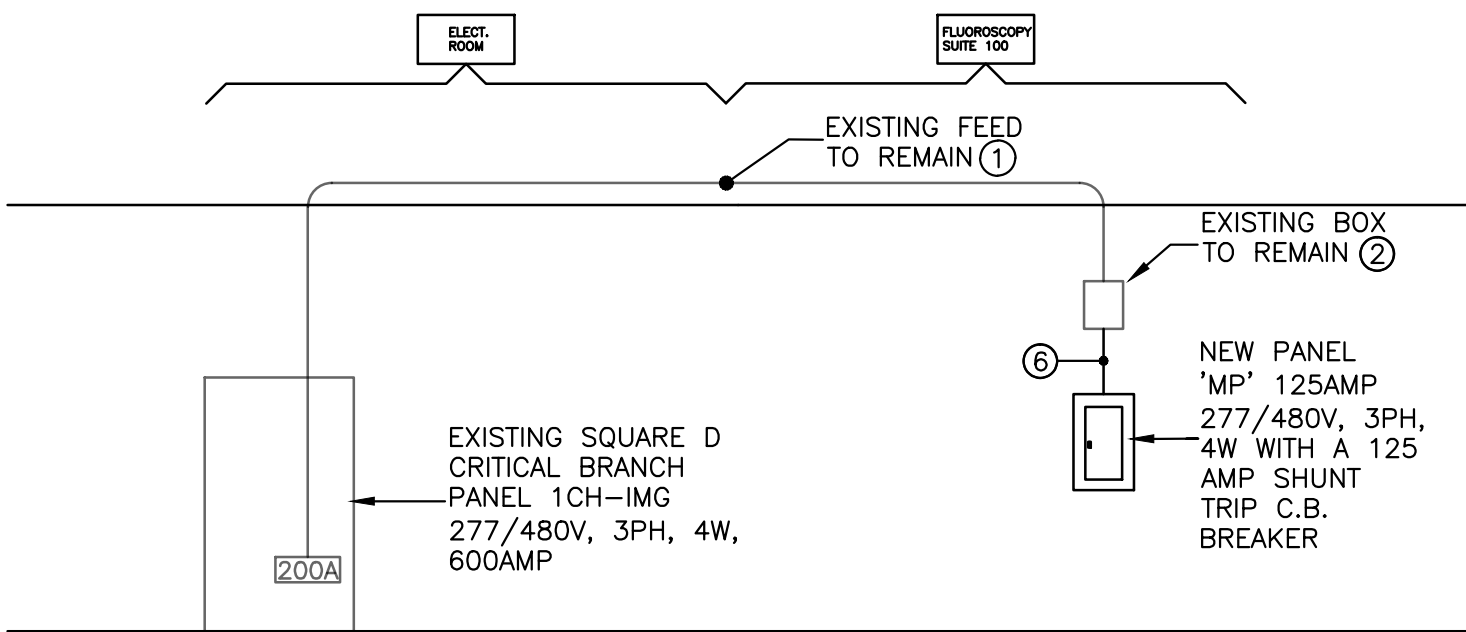
$I = 87,000VA / (480V)(1.73) = 104 \text{ AMPS}$

NEW PANELBOARD 'MP' 125AMP, 277/480V, 3PH, 4W, FED FROM EXISTING 200AMP C.B. IN PANEL 1CH-IMG.



KEYED NOTES :

- CONTRACTOR MUST ENSURE THAT EXISTING CONDUCTORS ARE #3/0 CU. MINIMUM AND EQUIPMENT GROUNDING CONDUCTOR IS #6 CU. GND MINIMUM. CONTRACTOR MUST ALSO ENSURE THAT THERE IS AN EXISTING NEUTRAL CONDUCTOR #3/0 CU MINIMUM. CONTRACTOR SHALL REPLACE OR ADD NEW CONDUCTOR AS REQUIRED.
- EXISTING FLUSHED BOX TO REMAIN.
- EXISTING SQUARE D 100AMP, 480V, 3PH, ENCLOSED CIRCUIT BREAKER SHALL BE REMOVED IN IT'S ENTIRELY. REMOVE ASSOCIATED WIRING AND CONDUCTORS BACK TO BOX LOCATED ON TOP.
- EXISTING SQUARE D 30AMP, 480V, 3PH, ENCLOSED CIRCUIT BREAKER SHALL BE REMOVED IN IT'S ENTIRELY. REMOVE ASSOCIATED WIRING AND CONDUCTORS BACK TO BOX LOCATED ON TOP.
- EXISTING CONDUIT AND CONDUCTORS TO BE REMOVED.
- PROVIDE AND INSTALL A NEW 2" C. WITH 4-#1/0 THWN. CU. CONDRS. AND 1-#4 CU. GND. FROM EXISTING BOX TO NEW PANEL 'MP' AS SHOWN. CONNECT NEW CONDUCTORS TO EXISTING CONDUCTORS AS REQUIRED. CONTRACTOR MUST ENSURE THERE IS A NEUTRAL CONDUCTOR INSTALLED. COORDINATE WITH NOTE #1 ON THIS SHEET.



EXISTING CRITICAL BRANCH PANEL '1CH-IMG' LOAD CALCULATIONS	
	LOAD (AMPS)
REMOVED 100A ENCLOSED C.B.	86 AMPS
REMOVED 30A ENCLOSED C.B.	24 AMPS
NEW PANEL 'MP'	104 AMPS
	TOTAL 6 AMPS

ELECTRICAL LOAD IN EXISTING CRITICAL BRANCH PANEL 1CH-IMG IS LESS AFTER NEW WORK. THEREFORE EXISTING CRITICAL BRANCH PANEL IS SUFFICIENTLY SIZED.

RISER DIAGRAM LEGEND

- INDICATES TO BE REMOVED
- INDICATES EXISTING
- INDICATES NEW

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ELECTRICAL RISER & PANELBOARDS



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