

MCKAY-DEE AMBULATORY SURGERY CENTER EXPANSION



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CONSTRUCTION DOCUMENTS 2020.10.30

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INTERMOUNTAIN HEALTHCARE

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structural engineer

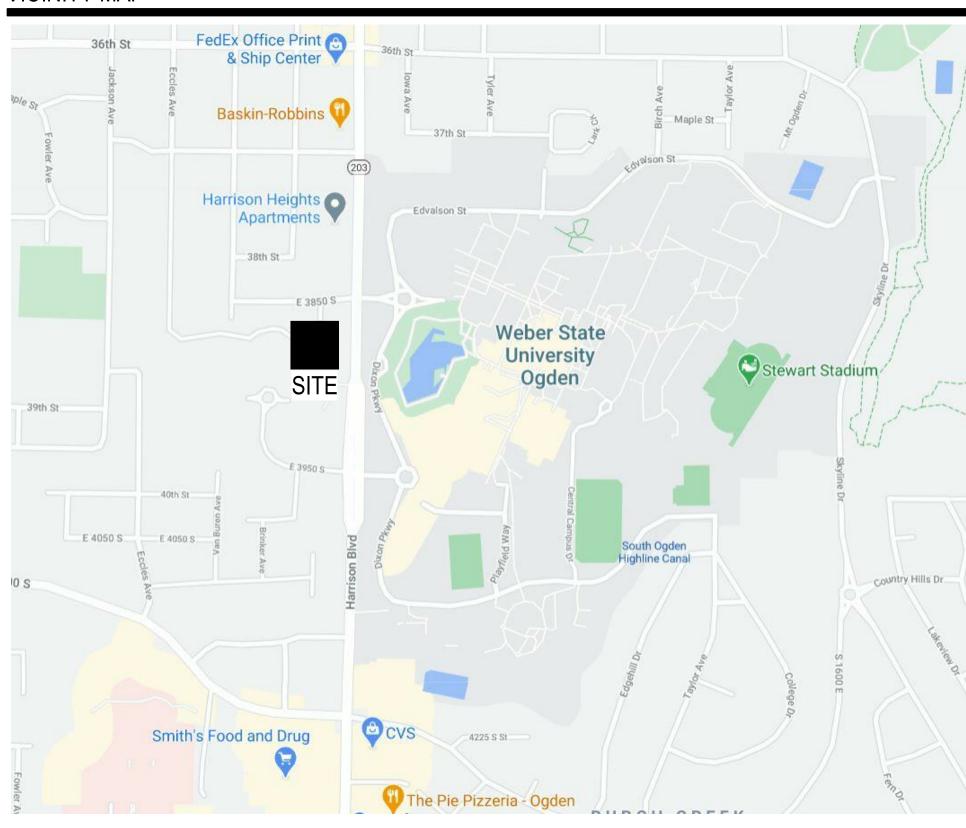
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	VIATIONS	NOT ALL	ABBREVIATIONS MAY BE USED
	AND	LAV	LAVATORY
	AT	LB / LBS	POUND (S)
ACT /	ACOUSTICAL CEILING TILE	MAT	MATERIAL (S)
AFF A	ADJUSTABLE	MAX	MAXIMUM
	ABOVE FINISH FLOOR	MDF	MEDIUM DENSITY
L/ALUM	ALTERNATE	MECH	MECHANICAL
	ALUMINUM	MEMB	MEMBRANE
	APPROXIMATE	MEZZ	MEZZANINE
	ARCHITECTURAL	MFR	MANUFACTURER
	BOARD	MGR MIN	MANAGER MINIMUM
BLK E	BUILDING	MIR	MIRROR
	BLOCK(ING)	MISC	MISCELANEOUS
BO E	BOTTOM OF	MO	MASONRY OPENING
	BEARING	MTD	MOUNT (ED)
BSMT E	BASEMENT	MTL	METAL
	BOTH SIDES	MW	MICROWAVE
BW E	BOTH WAYS	Ν	NORTH
CB (CABINET	NIC	NOT IN CONTRACT
	CATCH BASIN	NO.	NUMBER
CCSA (CUSTOM COLOR SELECTED BY	NOM	NOMINAL
	ARCHITECT	NRC	NOISE REDUCTION COEFFICIENT
CG (CORNER GUARD CHAMFER	NTS	NOT TO SCALE
CJ (CONTROL JOINT	OC	ON CENTER
	CENTER LINE	OD	OUTSIDE DIAMETER
CLG (CEILING CLEAR	OFCI	OWNER FURNISHED/ CONTRACTO
CM (CONSTRUCTION MANAGER	OFD OH	OVERFLOW DRAIN OVERHEAD
COMP (COMPUTER	OPG	OPENING
CONT	CONCRETE	OPP	OPPOSITE
	CONTINUOUS	OSB	ORIENTED STRAND BOARD
CSBA (CONCRETE MASONRY UNIT COLOR SELECTED BY ARCHITECT	OZ	OUNCE
	CERAMIC TILE	PERI PERM	PERIMETER PERMANENT
	DEPTH	PL	PLATE
	DECK BEARING	PLAM	PLASTIC LAMINATE
DBL [DOUBLE	PNL	PANEL
	DEPARTMENT	PNT	PAINT (ED)
DF [DRINKING FOUNTAIN	P.O.	POINT OF
	DIAMETER	PR	PAIR
DIM [DIMENSION	PR PT PART	PAIR POST TENSIONED PARTITION
DRN [DOWN	PART	PARTITION
	DRAIN	PLY	PLYWOOD
DW [DETAIL DISHWASHER	QT	QUARRY TILE
	DRAWING	R / RAD	RADIUS
(E) E	EAST	RCP	REFLECTED CEILING PLAN
	EXISTING	REC	RECESSED
EA E	EACH	REF	REFERENCE
	EXTERIOR INSULATION SYSTEM	REFG	REFRIGERATOR
EJ E	EXPANSION JOINT ELECTRICAL	REINF	REINFORCE (ED) REMOVE (ED)
ELEV E	ELECTRICAL ELEVATION EQUAL	REPL REQD	REPLACE REQUIRED
EQUIP E	EQUIPMENT	REV	REVISION (S)
EXIST E	EVAPORATIVE	RM	ROOM
	EXISTING	RO	ROUGH OPENING
EXT E	EXPANSION EXTERIOR	S	SOUTH
	ELECTRIC WATER COOLER	SALV SECT	SALVAGE (ED) SECTION
FD F	FIRE ALARM	SF	SQUARE FOOT
	FLOOR DRAIN	SIM	SIMILAR
FDN F	FOUNDATION	SLNT	SEALANT
	FIRE EXTINGUISHER	SPEC	SPECIFICATION (S)
FEC F	FIRE EXTINGUISHER CABINET	SQ	SQUARE
	FINISH GRADE	SS	STAINLESS STEEL
FH F	FIRE HYDRANT	STC	SUND TRANSMISSION CLASS
	FINISHED	STD	STANDARD
FLR F	FLOOR	STL	STEEL
FT F	FACE OF	STOR	STORAGE
	FOOT, FEET	STRUC	STRUCTURE (AL)
FRT F	FIBER REINFORCED PANEL	SUSP	SUSPENDED
	FIRE RETARDANT TREATED WOOD	SYM	SYMMETRY (ICAL)
	FOOTING FIELD VERIFY	Т	THICKNESS
GA (GAUGE	T & B T & G	TOP AND BOTTOM TONGUE AND GROOVE
GALV (GALVANIZED	TBD	TO BE DETERMINED
	GRAB BAR	TEMP	TEMPORARY
GC (GENERAL CONTRACTOR	THRU	THROUGH
	GLASSFIBER REINFORCED PANEL	T.O.	TOP OF
GYP (GLASSFIBER REINFORCED PANEL GYPSUM GYPSUM WALLBOARD	TRANS TS	TRANSFORMER TUBE STEEL
		TS TYP	TUBE STEEL TYPICAL
HC ł	HOSE BIB HANDICAP ACCESSIBLE	UNF	
HDF H	HARDWARE HIGH DENSITY FIBERBOARD	UNO	UNLESS OTHERWISE NOTED
H ł	HOLLOW METAL	VAR	VARIES
	HEIGHT	VB	VAPOR BARRIER
	HORIZONTAL	VCT VERT	VINYL COMPOSITION TILE
ICF I	INSIDE DIAMETER	VEST	VESTIBULE
	INSULATED CONCRETE FORM	VWC	VINYL WALL COVERING
IN I	INCH INCLUDE	W	WEST
INFO I	INFORMATION	W	WIDTH
	INTERIOR	W/	WITH
INSUL I	INSULATE, (D), (ION)	WC	WATER CLOSET
	INVERT	WD W/O	WOOD WITHOUT
ST .	JOIST	WSCT	WAINSCOT
	JOINT	WWF	WELDED WIRE FABRIC

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SHEET NUMBERING + NAMING

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PROJECT TEAM

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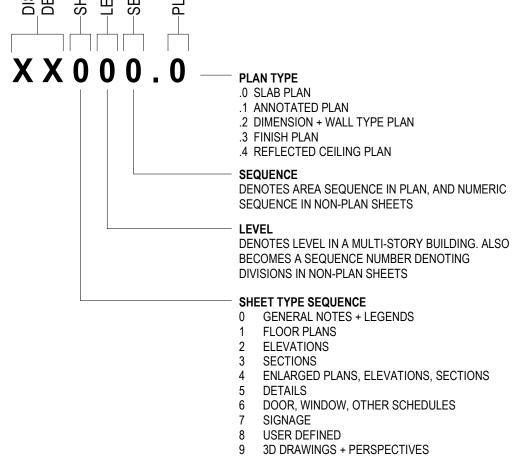
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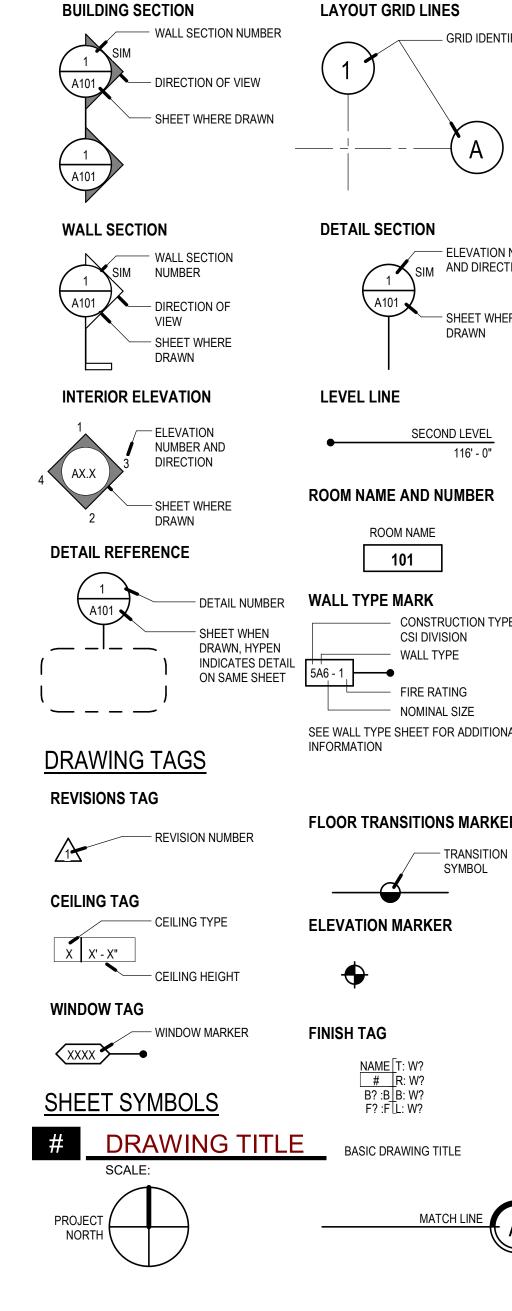
THIS IS A QUICK REFERENCE GUIDE TO THE

IN VCBO CONSTRUCTION DOCUMENTS.

SHEET NUMBERING AND NAMING SYSTEM USED







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REFERENCE SYMBOL LEGEND

GENERAL NOTES

- 1. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW AND COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BEFORE COMMENCING CONSTRUCTION, AND TO ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK OF THAT PARTY.
- SUB-CONTRACTORS, TRADES AND SUPPLIERS, THE CONTRACTOR SHALL ENDEAVOR TO IDENTIFY AND NOTIFY THE ARCHITECT OF ANY CONFLICTS BETWEEN THE WORK OF DIFFERENT PARTIES AT THE EARLIEST POSSIBLE DATE SO AS TO ALLOW REASONABLE AND ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHOUT DELAYING THE WORK. ALL DEVIATIONS FROM THAT WHICH IS REQUIRED BY THE CONTRACT DOCUMENTS MUST BE APPROVED IN ADVANCE BY THE ARCHITECT.
- 3. THE ARCHITECTURAL DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL EXPOSED ELEMENTS OF THE WORK OF ALL THE TRADES, INCLUDING THAT WORK WHICH IS ILLUSTRATED PRIMARILY ON DRAWINGS OF OTHER DISCIPLINES. QUANTITIES ARE TO BE PROVIDED AS SHOWN ON DRAWINGS OF OTHER DISCIPLINES BUT LOCATIONS SHOWN ON OTHER DRAWINGS ARE SCHEMATIC, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS. THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL PARTS OF THE WORK.
- 4. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN; DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED.
- 5. CONTRACTOR TO FOLLOW CURRENT ANSI 117-1 STANDARDS AS REPRESENTED ON SHEET G301, GENERAL ACCESSIBILITY GUIDELINES. NOTIFY ARCHITECT IF THE DESIGN DRAWINGS CONFLICT WITH THIS SHEET.

NOTES TO BIDDERS

- 1. THIS SHEET CONTAINS A LIST OF DRAWINGS WHICH COMPRISE A FULL SET OF DRAWINGS FOR THIS PROJECT. ANY CONTRACTOR, SUBCONTRACTOR, VENDOR OR ANY OTHER PERSON PARTICIPATING IN OR BIDDING ON THIS PROJECT SHALL BE RESPONSIBLE FOR THE INFORMATION CONTAINED IN ANY AND ALL SHEETS OF DRAWINGS AND SPECIFICATIONS. IF ANY PERSON, PARTY OR ENTITY ELECTS TO SUBMIT BIDS FOR ANY PORTION, OR ALL, OF THIS PROJECT, THAT PERSON, PARTY OR ENTITY SHALL BE RESPONSIBLE FOR ANY AND ALL INFORMATION CONTAINED IN THESE DRAWINGS AND SPECIFICATIONS, INCLUDING, BUT NOT LIMITED TO, ANY SUBSEQUENT ADDENDUMS OR CLARIFICATIONS THAT MAY BE ISSUED.
- THESE DOCUMENTS SHOW THE DESIGN INTENT. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE EVERYTHING SHOWN ON THE DRAWINGS OR SPECIFIED REGARDLESS OF WHERE IT IS SHOWN ON THE DRAWINGS OR IN THE SPECIFICATIONS. FOR EXAMPLE; SOME MILLWORK DETAILS HAVE STEEL FRAMES WHICH MAY BE PROVIDED BY DIVISION 05 OR WITH THE MILLWORK AT THE CONTRACTOR'S DISCRETION, BUT IT SHALL BE PROVIDED AS PART OF THE CONTRACT.
- 3. EVERYTHING CALLED FOR IN THESE DOCUMENTS SHALL BE "NEW" AND PROVIDED BY THE CONTRACTOR, SUBCONTRACTOR, VENDOR OR ANY OTHER PERSON PARTICIPATING IN OR BIDDING ON THIS PROJECT UNLESS NOTED OTHERWISE AS EXISTING (EXIST), NOT IN CONTRACT (NIC) OR FOR REFERENCE ONLY. FURNISHINGS SHOWN DASHED SHALL BE FOR REFERENCE ONLY.

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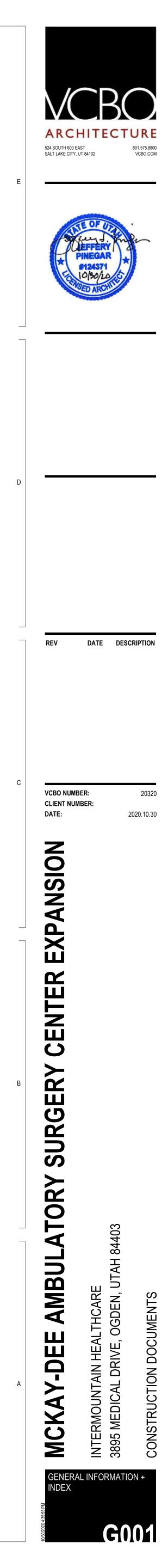
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GENERAL STRUCTURAL NOTES
GENERAL STRUCTURAL NOTES
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6

Grand total: 123

2. AS PART OF THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE WORK OF ALL



2
SPECIAL INSPECTION AND TESTING ITEMS
REQUIRED BY CHAPTER 17 OF THE 2018 INTERI
INDICATE ITEMS REQUIRING SPECIAL INSPECTION OR STRUCTURAL TESTING BY CHEC ONSITE DURING THE PERFORMANCE OF THAT TASK. IN MOST CASES "PERIODIC" INSP DESCRIPTION OF THE PRESUMED REQUIREMENTS FOR TASKS REQUIRING "PERIODIC"
FABRICATORS (IBC 1704.2.5)
- APPROVED FABRICATOR
FABRICATORS NAME:
FABRICATORS PLANT LOCATION::
REQUIRED IN-PLANT INSPECTIONS:

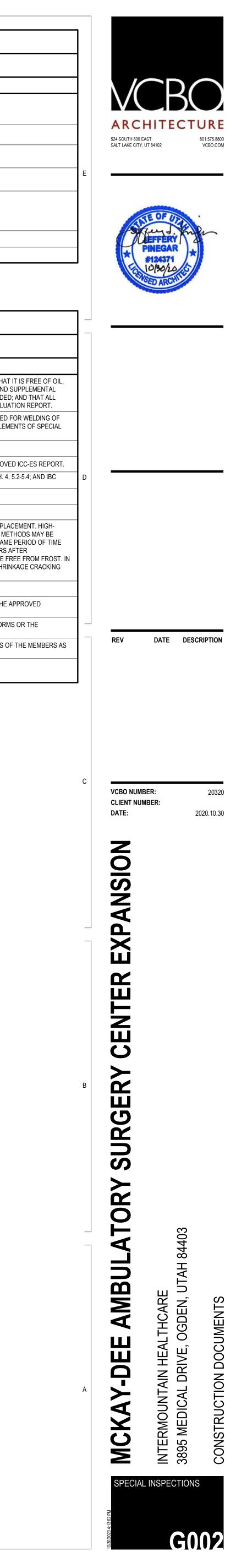
ESTABLISHED PER 2018 IBC SECTION 1705.2.1	_	ICATOR	SPECIAL I	NSPECTOR		
		CONTROL	QUALITY A	ASSURANCE	N/ A	NOTES
INSPECTION TASKS PRIOR TO WELDING (TABLE N5.4-1) WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	CONT X	PERIODIC	CONT X	PERIODIC	N/A -	NOTES 1. O - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	X	-	X	-	-	2. P - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.
MATERIAL IDENTIFICATION (TYPE / GRADE) WELDER IDENTIFICATION SYSTEM 1	-	X X	-	X X	-	 QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (A APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (I
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)						SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACC WITH SECTION N7.
* JOINT PREPARATION * DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)						5. QC AND QA INSPECTORS SHALL BE QUALIFIED IN ACCORDANCE WITH AISC 360-10 CHAPTER N4.
* CLEANLINESS (CONDITION OF STEEL SURFACES)	-	х	-	х	-	 NONDESTRUCTIVE TESTING PERSONNEL SHALL BE QUALIFIED IN ACCORDANCE WITH AISC 360-10 CHAPTER N4.3. NONDESTRUCTIVE TESTING OF WELDED JOINTS SHALL COMPLY WITH AISC 360-10 CHAPTER N5a AND b.
* TACKING (TACK WELD QUALITY AND LOCATION)						8. OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPECTION OF IN-PROCESS AND COMPLETED WELDS SHALL BE TH METHOD TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP ARE IN CONFORMANCE WITH THE CONST
* BACKING TYPE AND FIT (IF APPLICABLE) CONFIGURATION AND FINISH OF ACCESS HOLES	-	Х	-	X	-	DOCUMENTS. FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWS D1.1 / D1.1M STRUCTURAL WELDING CODE - STEEL FOR STATICALLY LOADED STRUCTURES SHALL APPLY.
FIT-UP OF FILLET WELDS						 THERMALLY CUT SURFACES OF ACCESS HOLES SHALL BE TESTED BY QA USING MT OR PT, WHEN THE FLANGE THICKNESS 2 IN. (50mm) FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS EXCEEDS 2 IN. (50mm) FOR BUILT-UP SHAPES. ANY CRA 2 IN. (50mm) FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS EXCEEDS 2 IN. (50mm) FOR BUILT-UP SHAPES. ANY CRA 2 IN. (50mm) FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS EXCEEDS 2 IN. (50mm) FOR BUILT-UP SHAPES. ANY CRA 2 IN. (50mm) FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS EXCEEDS 2 IN. (50mm) FOR BUILT-UP SHAPES.
* DIMENSIONS (ALIGNMENT, GAPS AT ROOT) * CLEANLINESS (CONDITION OF STEEL SURFACES)	-	х	-	х	-	BE DEEMED UNACCEPTABLE REGARDLESS OF SIZE OR LOCATION. 10. WHEN REQUIRED BY APPENDIX 3, TABLE A-3.1, WELDED JOINTS REQUIRING WELD SOUNDNESS TO BE ESTABLISHED BY
* TACKING (TACK WELD QUALITY AND LOCATION)						RADIOGRAPHICS OR ULTRASONIC INSPECTION SHALL BE TESTED BY QA AS PRESCRIBED. REDUCTION IN THE RATE OF UT PROHIBITED.
CHECK WELDING EQUIPMENT THE FABRICATOR OR ERECTOR. AS APPLICABLE. SHALL MAINTAIN A SYSTEM BY WHICH A WELD.				-	-	 REDUCTION OF RATE OF ULTRASONIC TESTING - THE RATE OF UT IS ONLY PERMITTED TO BE REDUCED IF APPROVED BY T AND THE AHJ PER AISC 360-10 CHAPTER N5e.
MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.						12. FOR STRUCTURES IN RISK CATEGORY II, WHERE THE INITIAL RATE FOR UT IS 10%, THE NDT RATE FOR AN INDIVIDUAL WELD WELDING OPERATOR SHALL BE INCREASED TO 100% SHOULD THE REJECT RATE, THE NUMBER OF WELDS CONTAINING
INSPECTION TASKS DURING WELDING (TABLE N5.4-2)	CONT	PERIODIC	CONT	PERIODIC	N/A	UNACCEPTABLE DEFECTS DIVIDED BY THE NUMBER OF WELDS COMPLETED, EXCEEDS 5% OF THE WELDS TESTED FOR THE OR WELDING OPERATOR. A SAMPLING OF AT LEAST 20 COMPLETED WELDS FOR A JOB SHALL BE MADE PRIOR TO IMPLEME SUCH AN INCREASE. WHEN THE REJECT RATE FOR THE WELDER OR WELDING OPERATOR, AFTER A SAMPLING OF AT LEAS
USE OF QUALIFIED WELDERS CONTROL AND HANDLING OF WELDING CONSUMABLES	-	X	-	X	-	COMPLETED WELDS, HAS FALLEN TO 5% OR LESS, THE RATE OF UT SHALL BE RETURNED TO 10%. FOR EVALUATING THE R RATE OF CONTINUOUS WELDS OVER 3 FT (1M) IN LENGTH WHERE THE EFFECTIVE THROAT IS 1 IN. (25mm) OR LESS, EACH 1
* PACKAGING		х	-	х	-	(300mm) INCREMENT OR FRACTION THEREOF SHALL BE CONSIDERED AS ONE WELD. FOR EVALUATING THE REJECT RATE (CONTINUOUS WELDS OVER 3 FT (1M) IN LENGTH WHERE THE EFFECTIVE THROAT IS GREATER THAN 1 IN. (25mm), EACH 6 IN
* EXPOSURE CONTROL		~		~		OF LENGTH OR FRACTION THEREOF SHALL BE CONSIDERED ON WELD. 13. ALL NDT PERFORMED SHALL BE DOCUMENTED. FOR SHOP FABRICATION, THE NDT REPORT SHALL IDENTIFY THE TESTED V
NO WELDING OVER CRACKED TACK WELDS ENVIRONMENTAL CONDITIONS		X	-	X	-	PIECE MARK AND LOCATION IN THE PIECE. FOR FIELD WORK, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY LOC THE STRUCTURE, PIECE MARK, AND LOCATION IN THE PIECE.
* WIND SPEED WITHIN LIMITS	-	х	-	Х	-	WHEN A WELD IS REJECTED ON THE BASIS OF NDT, THE NDT RECORD SHALL INDICATE THE LOCATION OF THE DEFECT AND BASIS OF REJECTION.
* PRECIPITATION AND TEMPERATURE WPS FOLLOWED						
* SETTINGS ON WELDING EQUIPMENT						
* TRAVEL SPEED		v		×		
* SELECTED WELDING MATERIALS * SHIELDING GAS TYPE / FLOW RATE	-	Х	-	^	-	
* PREHEAT APPLIED						
* INTERPASS TEMPERATURE MAINTAINED (MIN. / MAX) * PROPER POSITION (F, V, H, OH)						
WELDING TECHNIQUES			<u> </u>			
* INTERPASS AND FINAL CLEANING * EACH PASS WITHIN PROFILE LIMITATIONS		х	-	х	-	
* EACH PASS MEETS QUALITY REQUIREMENTS						
INSPECTION TASKS AFTER WELDING (TABLE N5.4-3)	CONT	PERIODIC	CONT	PERIODIC	N/A	
WELDS CLEANED	-	Х	- X	Х	-	4
SIZE LENGTH AND LOCATION OF WEIDS	Y	_		_	_	
SIZE, LENGTH AND LOCATION OF WELDS WELDS MEET VISUAL ACCEPTANCE CRITERIA	X	-		-	-	
WELDS MEET VISUAL ACCEPTANCE CRITERIA * CRACK PROHIBITION	X	-		-	-	
WELDS MEET VISUAL ACCEPTANCE CRITERIA	X	-	 X	-	-	
WELDS MEET VISUAL ACCEPTANCE CRITERIA * CRACK PROHIBITION * WELD / BASE-METAL FUSION		-		-	-	
WELDS MEET VISUAL ACCEPTANCE CRITERIA * CRACK PROHIBITION * WELD / BASE-METAL FUSION * CRATER CROSS SECTION * WELD PROFILES * WELD SIZE		-		-	-	
WELDS MEET VISUAL ACCEPTANCE CRITERIA * CRACK PROHIBITION * WELD / BASE-METAL FUSION * CRATER CROSS SECTION * WELD PROFILES		-		-	-	
WELDS MEET VISUAL ACCEPTANCE CRITERIA * CRACK PROHIBITION * WELD / BASE-METAL FUSION * CRATER CROSS SECTION * WELD PROFILES * WELD SIZE * UNDERCUT * POROSITY ARC STRIKES	x	-	x	-	-	
WELDS MEET VISUAL ACCEPTANCE CRITERIA * CRACK PROHIBITION * WELD / BASE-METAL FUSION * CRATER CROSS SECTION * WELD PROFILES * WELD PROFILES * WELD SIZE * UNDERCUT * POROSITY	x	- - -	x	- - -	- - - -	
WELDS MEET VISUAL ACCEPTANCE CRITERIA * CRACK PROHIBITION * WELD / BASE-METAL FUSION * CRATER CROSS SECTION * WELD PROFILES * WELD PROFILES * WELD SIZE * UNDERCUT * POROSITY ARC STRIKES K-AREA 1 BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) REPAIR ACTIVITIES	X X X X X X X	- - - - -	X X X X X X X	- - - - - -	- - - - -	
WELDS MEET VISUAL ACCEPTANCE CRITERIA * CRACK PROHIBITION * WELD / BASE-METAL FUSION * CRATER CROSS SECTION * WELD PROFILES * WELD PROFILES * WELD SIZE * UNDERCUT * POROSITY ARC STRIKES K-AREA 1 BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	X X X X X X X X	- - - - - - - - - - - - - -	X X X X X X X X	- - - - -	- - - - - - -	
WELDS MEET VISUAL ACCEPTANCE CRITERIA * CRACK PROHIBITION * WELD / BASE-METAL FUSION * CRATER CROSS SECTION * WELD PROFILES * WELD SIZE * UNDERCUT * POROSITY ARC STRIKES K-AREA 1 BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) REPAIR ACTIVITIES DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFOR INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75mm) OF THE WELD)	X X X X X X RMED IN THE	,	X X X X X X X IALLY	- - - - - - - -	- - - - - - -	
WELDS MEET VISUAL ACCEPTANCE CRITERIA * CRACK PROHIBITION * WELD / BASE-METAL FUSION * CRATER CROSS SECTION * WELD PROFILES * WELD SIZE * UNDERCUT * POROSITY ARC STRIKES K-AREA 1 BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) REPAIR ACTIVITIES DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFOR INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75mm) OF THE WELD) INSPECTION TASKS PRIOR TO BOLTING (TABLE N5.6-1)	X X X X X X X X	PERIODIC	X X X X X X IALLY CONT	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - N/A	NOTES
WELDS MEET VISUAL ACCEPTANCE CRITERIA * CRACK PROHIBITION * WELD / BASE-METAL FUSION * CRATER CROSS SECTION * WELD PROFILES * WELD SIZE * UNDERCUT * POROSITY ARC STRIKES K-AREA 1 BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) REPAIR ACTIVITIES DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFOR INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75mm) OF THE WELD)	X X X X X X RMED IN THE	,	X X X X X X X IALLY	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	1. O - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
WELDS MEET VISUAL ACCEPTANCE CRITERIA * CRACK PROHIBITION * WELD / BASE-METAL FUSION * CRATER CROSS SECTION * WELD PROFILES * WELD PROFILES * WELD SIZE * UNDERCUT * POROSITY ARC STRIKES K-AREA 1 BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) REPAIR ACTIVITIES DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFOR INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75mm) OF THE WELD) INSPECTION TASKS PRIOR TO BOLTING (TABLE N5.6-1) MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE,	X X X X X X RMED IN THE	PERIODIC	X X X X X X IALLY CONT	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	 O - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. P - PERFORM THESE TASKS FOR EACH BOLTED CONNECTION. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
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MS	
ERNATIONAL BUILDING CODE	
CHECKING THE APPROPRIATE BOX. ALL ITEMS NOT REQUIRING INSPECTION/TESTING SHOULD BE REMOVED FROM THE FORM. FOR ITEMS REQUIRING CONTINUOUS INSPECTION, A SPECIAL INSPECTOR MUST BE PRESENT INSPECTIONS/TESTS SHALL BE PERFORMED PRIOR TO COMMENCING THE TASK, INTERMITTENTLY DURING THE TASK, AND AT THE COMPLETION OF THE TASK. THE "DETAILED INSTRUCTIONS & FREQUENCY" PROVIDES A ODIC" INSPECTIONS. THE DESIGN PROFESSIONAL IN RESPONSIBLE SHOULD REVISE THE REQUIREMENTS AS NEEDED ON A PROJECT-SPECIFIC BASIS.	

-	UNAPPROVED FABRICATOR				
-	STEEL CONSTRUCTION	-	CONCRETE CONSTRUCTION	-	WOOD CONSTRUCTION
-	COLD-FORMED CONSTRUCTION	-	OTHER:	-	OTHER:

	5			6					
STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL									
ESTABLISHED PER 2018 IBC 1705.2.2		NSPECTOR ASSURANCE							
ITEM	CONT	PERIODIC	N/A	DETAILED INSTRUCTIONS AND FREQUENCIES					
MATERIAL VERIFICATION OF COLD FORMED STEEL DECKS: IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	х	-	APPLICABLE ASTM MATERIAL STANDARDS					
MATERIAL VERIFICATION OF COLD FORMED STEEL DECKS: MANUFACTURER'S CERTIFIED TEST REPORTS.	-	Х	-						
INSPECTION OF WELDING ON COLD-FORMED STEEL DECK: FLOOR ADN ROOF DECK WELDS	-	Х	-	AWS D1.3					
INSPECTION OF WELDING ON REINFORCING STEEL: VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706.	-	Х	-	AWS D1.4, ACI 318: SECTION 3.5.2					
INSPECTION OF WELDING ON REINFORCING STEEL: REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	Х	-	-	AWS D1.4, ACI 318: SECTION 3.5.2					
INSPECTION OF WELDING ON REINFORCING STEEL: SHEAR REINFORCEMENT.	х	-	-	AWS D1.4, ACI 318: SECTION 3.5.2					
INSPECTION OF WELDING ON REINFORCING STEEL: OTHER REINFORCING STEEL.	-	Х	-	AWS D1.4, ACI 318: SECTION 3.5.2					

CONCRETE CONSTRUCTION				
ESTABLISHED PER 2018 IBC 1705.3 & 1708.2		INSPECTOR ASSURANCE		
ITEM	CONT	PERIODIC	N/A	DETAILED INSTRUCTIONS AND FREQUENCIES
REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS		Х	-	VERIFY PRIOR TO PLACING CONCRETE THAT REINFORCING IS OF SPECIFIED TYPE, GRADE AND SIZE; THAT IT DIRT AND RUST; THAT IT IS LOCATED AND SPACED PROPERLY; THAT HOOKS, BENDS, TIES, STIRRUPS AND SU REINFORCEMENT ARE PLACED CORRECTLY; THAT LAP LENGTHS, STAGGER AND OFFFSETS ARE PROVIDED; J MECHCANICAL CONNECTIONS ARE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS AND/OR EVALUATION
WELDING OF REINFORCING STEEL	X	-	-	VERIFY WELDABILITY OF REINFORCING STEEL OTHER THAN 1706. CONTINUOUS INSPECTION IS REQUIRED FOR REINFORCING STEEL USED IN INTERMEDIATE OR SPECIAL CONCRETE MOMENT FRAMES, BOUNDARY ELEMENT STRUCTURAL WALLS OR SHEAR REINFORCEMENT.
CAST-IN BOLTS & EMBEDS	Х	-	-	
POST-INSTALLED ANCHORS OR DOWELS	-	-	-	ALL POST-INSTALLED ANCHORS/DOWELS SHALL BE SPECIALLY INSPECTED AS REQUIRED BY THE APPROVED
USE OF REQUIRED MIX DESIGN	-	Х	-	VERIFY THAT ALL MIXES USED COMPLLY WITH THE APPROVED CONSTRUCION DOCUMENTS; ACI 318; CH. 4, 5. 1904.2
CONCRETE SAMPLING FOR STRENTH TESTS, SLUMP, AIR CONTENT, AND TEMP	Х	-	-	
CONCRETE & SHOTCRETE PLACEMENT	Х	-	-	
CURING TEMPERATURE AND TECHNIQUES	-	X	-	VERIFY THAT AMBIENT TEMPERATURE FOR CONCRETE IS KEPT AT >50°F FOR AT LEAST 7 DAYS AFTER PLACE EARLY-STRENGTH CONCRETE SHALL BE KEPT AT > 50°F FOR AT LEAST 3 DAYS. ACCELERATED CURING METH USED (SEE ACT 31.8:5.11.3). THE AMBIENT TEMPERATURE FOR SHOTCRETE SHALL BE > 40°F FOR THE SAME F AS NOTED FOR CONCRETE. SHOTCRETE SHALL BE KEPT CONTINUOUSLY MOIST FOR AT LEAST 24 HOURS AF SHOTCRETING. ALL CONCRETE MATERIALS, REINFORCEMENT, FORMS, FILLERS, AND GROUND SHALL BE FRE HOT WEATHER CONDITIONS ENSURE THAT APPROPRIATE MEASURES ARE TAKEN TO AVOID PLASTIC SHRINK AND THAT THE SPECIFIED WATER/CEMENT RATIO IS NOT EXCEEDED.
PRE-STRESSED CONCRETE	-	-	Х	
ERECTION OF PRECAST CONCRETE	-	Х	-	VERIFY THAT ALL PRECAST ELEMENTS ARE LIFTED, ASSEMBLED AND BRACED IN ACCORDANCE WITH THE AP CONSTRUCTION DOCUMENTS.
STRENGTH VERIFICATION	-	Х	-	VERIFY THAT ADEQUATE STRENGTH HAS BEEN ACHIEVED PRIOR TO THE REMOVAL OF SHORES AND FORMS STRESSING OF POST TENSIONED TENDONS.
FORMWORK	-	Х	-	VERIFY THAT THE FORMS ARE PLACED PLUMB AND CONFORM TO THE SHAPES, LINES, AND DIMENSIONS OF REQUIRED BY THE APPROVED CONSTRUCTION DOCUMENTS.
REINFORCEMENT IN SPECIAL MOMENT FRAMES, SPECIAL STRUCTURAL WALLS AND COUPLING BEAMS			х	



INSTALLATION IN ORDER TO ALLOW FOR PLAN REVIEW AND FORWARDING 2. IF SEISMIC RESTRAINS OF NON-STRUCTURAL COMPONENTS ARE INSTALLE AND INSPECTION APPROVAL. FURTHER, INSTALLERS ARE PROCEEDING AT 3. THE REQUIREMENTS FOR SEISMIC RESTRAINT OF NONSTRUCTURAL COMP MANUALS AS A BASIS OF THEIR DESIGN, BUT MUST PROVIDE ALL SUPPORT 4. SUBMITTALS MUST INCLUDE DETAILS OF THE PROPOSED SEISMIC RESTRAI SIZE, AND LOCATIONS OF ANCHORAGES; MATERIALS USED FOR BRACING;	ARCHITECTURAL COMPONENTS ITEM INTERIOR NONSTRUCTURAL WALLS & PARTITIONS CANTILEVER ELEMENTS (I.E. PARAPETS, ETC.) EXTERIOR NONSTRUCTURAL WALLE LEMENTS VENEER PENTHOUSES CELLINGS (I.E. SUSPENDED GRID OR HARD-LID) CARINETS (I.E. STORAGE CABINETS, EQUIP, ETC.) ACCESS FLOORS STORAGE RACKS APPENDACIES A ORNAMENTATIONS SIGNAS & BULEDARDS OTHER ITEM FIRE SPRINKLERS MECHANICAL EQUIPMENT (ILE HAVAC, FANS, AIR HANDLERS, BOLLERS, FULPRISS, FLOORERS, SITTICHERS, INCORMERSORS, MICHORERS, ENTERS, FLOORERS, ENTERS, FLOORERS, ENTERS,	ARCHITECTURAL COMPONENTS INTERIOR NONSTRUCTURAL WALLS & PARTITIONS CANTLEVER ELEMENTS (I.E. PARAPETS, ETC.) EXTERIOR NONSTRUCTURAL WALLS & PARTITIONS CANTLEVER ELEMENTS (I.E. PARAPETS, ETC.) EXTERIOR NONSTRUCTURAL WALL ELEMENTS VENEER PENTHOUSES CELIUNGS (I.E. SUSPENDED GRID OR HARD-LID) CABINETS (I.E. STORAGE CABINETS, EQUIP, ETC.) ACCESS FLOORS STORAGE RACKS APPENDAGES & ORNAMENTATIONS SIGNS & BILLBOARDS OTHER: MEEP COMPONENTS ITEM FIRE SPRINKLERS MECHANICAL EQUIPMENT (I.E. HVAC, FANS, AIR HANDLERS, BOILERS, FUNNACES, TAKIS, CHILLERS, WATER HEATERS, HEAT EXCHANGERS, EVAPORATORS, ENSINES, TURBINES, PUMPS, COMPRESSORS, MER, EQUIPMENT, ETC.) ELECTRICAL EQUIPMENT, I.E. GENERATORS, BATTERIES, INVERTERS, TRANSFORKES, MICE, HEATER, INVERTERS, TRANSFORKES, MICE, HEAT, ETC.) ELEVATOR & ESCALATOR COMPONENTS COMMUNICATION EQUIPMENT, COMPUTERS, INSTRUMENTATION, AND CONTROLS COMMUNICATION EQUIPMENT, COMPUTERS, INSTRUMENTATION, AND CONTROLS COMMUNICATION EQUIPMENT, COMPUTERS, INSTRUMENTATION, AND CONTROLS COMMUNICATION EQUIPMENT, COMPONENTS PIPING & CONDUIT SYSTEMS DUCTWORK (INCLUDING IN-LINE COMPONENTS) <t< th=""></t<>
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SPECIAL INSPECTION	AND TESTING ITEMS	

REQUIRED BY CHAPTER 17 OF THE 2018 INTERNATIONAL BUILDING CODE

INDICATE ITEMS REQUIRING SPECIAL INSPECTION OR STRUCTURAL TESTING BY CHECKING THE APPROPRIATE BOX. ALL ITEMS NOT REQUIRING INSPECTION/TESTING SHOULD BE REMOVED FROM THE FORM. FOR ITEMS REQUIRING CONTINUOUS INSPECTION, A SPECIAL INSPECTOR MUST BE PRESENT ONSITE DURING THE PERFORMANCE OF THAT TASK. IN MOST CASES "PERIODIC" INSPECTION/TESTS SHALL BE PERFORMED PRIOR TO COMMENCING THE TASK, INTERMITTENTLY DURING THE TASK, AND AT THE COMPLETION OF THE TASK. THE "DETAILED INSTRUCTIONS & FREQUENCY" PROVIDES A DESCRIPTION OF THE PRESUMED REQUIREMENTS FOR TASKS REQUIRING "PERIODIC" INSPECTIONS. THE DESIGN PROFESSIONAL IN RESPONSIBLE SHOULD REVISE THE REQUIREMENTS AS NEEDED ON A PROJECT-SPECIFIC BASIS.

SOILS CONSTRUCTION

ESTABLISHED PER 2018 IBC 1705.6		NSPECTOR ASSURANCE		
ITEM	CONT	PERIODIC	N/A	DETAILED INSTRUCTIONS AND FREQUENCIES
VERIFY SUBGRADE IS ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY.	-	Х	-	PRIOR TO PLACEMENT OF CONCRETE.
VERIFY EXCAVATIONS EXTEND TO PROPER DEPTH AND MATERIAL	-	х	-	PRIOR TO PLACEMENT OF COMPACTED FILL OR CONCRETE.
VERIFY THAT SUBGRADE HAS BEEN APPROPRIATELY PREPARED PRIOR TO PLACING COMPACTED FILL.	-	Х	-	PRIOR TO PLACEMENT OF COMPACTED FILL
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	-	Х	-	ALL MATERIALS SHALL BE CHECKED AT EACH LIFT FOR PROPER CLASSIFCIATIONS AND GRADATIONS NOT LES FOR EACH 10,000 SQ FT OF SURFACE AREA.
VERIFY PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION	-	Х	-	

COLD FORMED STEEL LIGHT FRAME COM	ISTRU	CTION		
ESTABLISHED PER 2018 IBC 1705.10.2, 1705.11.3	SPECIAL	INSPECTOR ASSURANCE		
ITEM	CONT	PERIODIC	N/A	DETAILED INSTRUCTIONS AND FREQUENCIES
TRUSSES SPANNING > 60-FEET	-	-	Х	VERIFY THAT TEMPORARY AND PERMANENT TRUSS BRACING IS INSTALLED IN ACCORDANCE WITH APPROVED PACKAGE. PERFORMED BY CODE INSPECTION FIRM.
WIND-FORCE-RESISTING SYSTEMS OR SEISMIC-FORCE-RESISTING SYSTEMS	-	Х	-	PERIODIC INSPECTIONS OF WELDING OPERATIONS. IF FASTENER SPACING IS < 4"O.C.: VERIFY THAT PROPER S ATTACHMENT, BOLTING, ANDCHORING AND OTHER FASTENING OF SHEARWALLS, DIAPHRAGMS, DRAG STRUTS SHEAR PANELS AND HOLDOWNS HAS OCCURRED. PERFORMED BY CODE INSPECTION FIRM.

ARCHITECTURAL COMPONENTS				
ESTABLISHED PER 2018 IBC 1707.1	SPECIAL INSPECTOR QUALITY ASSURANCE			
ITEM	CONT	PERIODIC	N/A	DETAILED INSTRUCTIONS AND FREQUENCIES
ERECTION AND FASTENING OF EXTERIOR CLADDING OR ITNERIOR AND EXTERIOR VENEERS	-	Х	-	VERIFY APPROPRIATE MATERIALS, FASTENERS AND ATTACHMENT AT COMMENCEMENT OF WORK AND AT CO PERFORMED BY CODE INSPECTION FIRM. (NOT REQUIRED IF <30 FEET OR LESS THAN 5PSF).
ERECTION AND FASTENING OF INTERIOR AND EXTERIOR NONBEARING WALLS	-	х	-	VERIFY APPROPRIATE MATERIALS, FASTENERS AND ATTACHMENT AT COMMENCEMENT OF WORK AND AT CO PERFORMED BY CODE INSPECTION FIRM. (NOT REQUIRED IF <30 FEET OR LESS THAN 5PSF).

MECHANICAL AND ELECTRICAL COMPONENTS							
2018 IBC 1707.7, 1707.8 & 1708.4		SPECIAL INSPECTOR QUALITY ASSURANCE					
ITEM	CONT	PERIODIC	N/A	DETAILED INSTRUCTIONS AND FREQUENCIES			
ANCHORAGE OF EMERGENCY OR STANDBY POWER SYSTEMS	-	Х	-	VERIFY THAT ANCHORAGE COMPLIES WITH APPROVED CONSTRUCTION CODUMENTS. PERFORMED BY CODE I FIRM.			
INSTALLATION OF PIPING SYSTEMS CARRYING FLAMMABLE, COMBUSTIBLE OR HIGHLY TOXIC MATERIALS.	-	-	Х	VERIFY THAT INSTALLATION AND RESTRAINT COMPLY WITH APPROVED CONSTRUCTION DOCUMENTS. PERFORMANCE INSPECTION FIRM.			
INSTALLATION OF MEDICAL GAS PIPING SYSTEMS.	-	х	-	VERIFY THAT INSTALLATION AND RESTRAINT COMPLY WITH NFPA 99. PERFORMED BY CODE INSPECTION FIRM			
INSTALLATION OF HVAC DUCTWORK CONTAINING HAZARDOUS MATERIALS	-	-	Х	VERIFY THAT INSTALLATION AND RESTRAINT COMPLY WITH APPROVED CONSTRUCTION DOCUMENTS. PERFO INSPECTION FIRM.			
INSTALLATION OF VIBRATION ISOLATION SYSTEMS HAVING A CLEARNACE OF <= 1/4	-	Х	-	VERIFY THAT INSTALLATION COMPLIES WITH APPROVED CONSTRUCTION DOCUMENTS AND MANUFATURER'S RECOMMENDATIONS. PERFORMED BY CODE INSPECTION FIRM.			
DESIGNATED SEISMIC SYSTEMS	-	Х	-	CONFIRM THAT MANUFACTURER'S CERTIFICATE OF COMPLIANCE CONFORMS TO THE REQUIREMENTS OF SEC ASCE 7-05. VERIFY THAT THE LABEL ANCHORAGE OR MOUNTING CONFORMS TOT HE MANUFACTURER'S CERT COMPLIANCE. PERFORMED BY CODE INSPECTION FIRM.			

MISCELLANEOUS AREAS

	SPECIAL INSPECTOR QUALITY ASSURANCE			
ITEM	CONT PERIODIC		N/A	DETAILED INSTRUCTIONS AND FREQUENCIES
SUSPENDED CEILING GRID CLIPS	-	Х	-	PERFORMED BY CODE INSPECTION FIRM
SUSPENDED CEILING WIRE SPACING (SEISMIC)	-	х	-	PERFORMED BY CODE INSPECTION FIRM
SOILS BACKFILL (SPECIFY LOCATIONS AND FREQUENCY)	-	-	Х	
SOILS FOR CURBE AND GUTTER (SPECIFY LOCATIONS AND FREQUENCY)	-	-	Х	
SOILS FOR PARKING LOTS (SPECIFY LOCATIONS AND FREQUENCY)	-	-	Х	
SOILS FOR UTILITY TRENCH BACKFILL	-	-	Х	
REINFORCEMENT FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS AND FREQUENCY)	-	-	Х	
REINFORCEMENT FOR INTERIOR SLAB ON GRADE (SPECIFY LOCATIONS AND FREQUENCY)	-	-	Х	
CONCRETE TESTING FOR SLAB ON GRADE SIDEWALKS AND DRIVE APPROACHES (SPECIFY LOCATIONS AND FREQUENCY)	-	-	Х	
ASPHALT INSPECTION (SPECIFY LOCATIONS AND FREQUENCY)	-	-	Х	
ASPHALT TESTING (SPECIFY LOCATIONS AND FREQUENCY)	-	-	Х	
STEAM AND WATER LINE WELDING (SPECIFY LOCATIONS AND FREQUENCY) SEISMIC SUPPORTS FOR DUCT WORK AND SEALING OF JOINTS FOR DUCT	-	-	Х	
WORK	-	Х	-	
SEISMIC SUPPORTS FOR ELECTRICAL RACEWAYS, CABLE TRAYS AND LIGHTS	-	Х	-	
SEISMIC SUPPORTS FOR PLUMBING LINES INCLUDING GAS, WATER AND STEAM AND CONDENSATION	-	Х	-	
SEISMIC BRACING FOR MECHANICAL UNITS BOTH ON SLAB AND SUSPENDED	-	Х	-	
EPDM ROOFING	-	-	х	075323
PENETRATION FIRESTOPPING	-	Х	-	078400

SPECIAL INSPECTOR SHALL:

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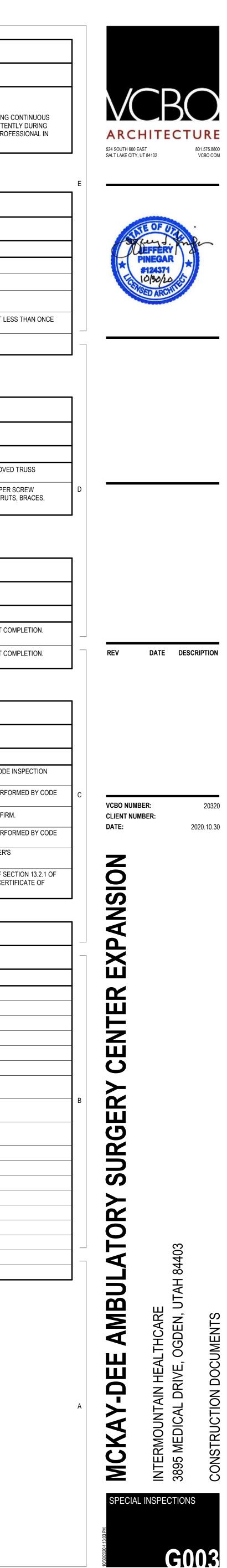
- BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO PERFORMING ANY DUTIES

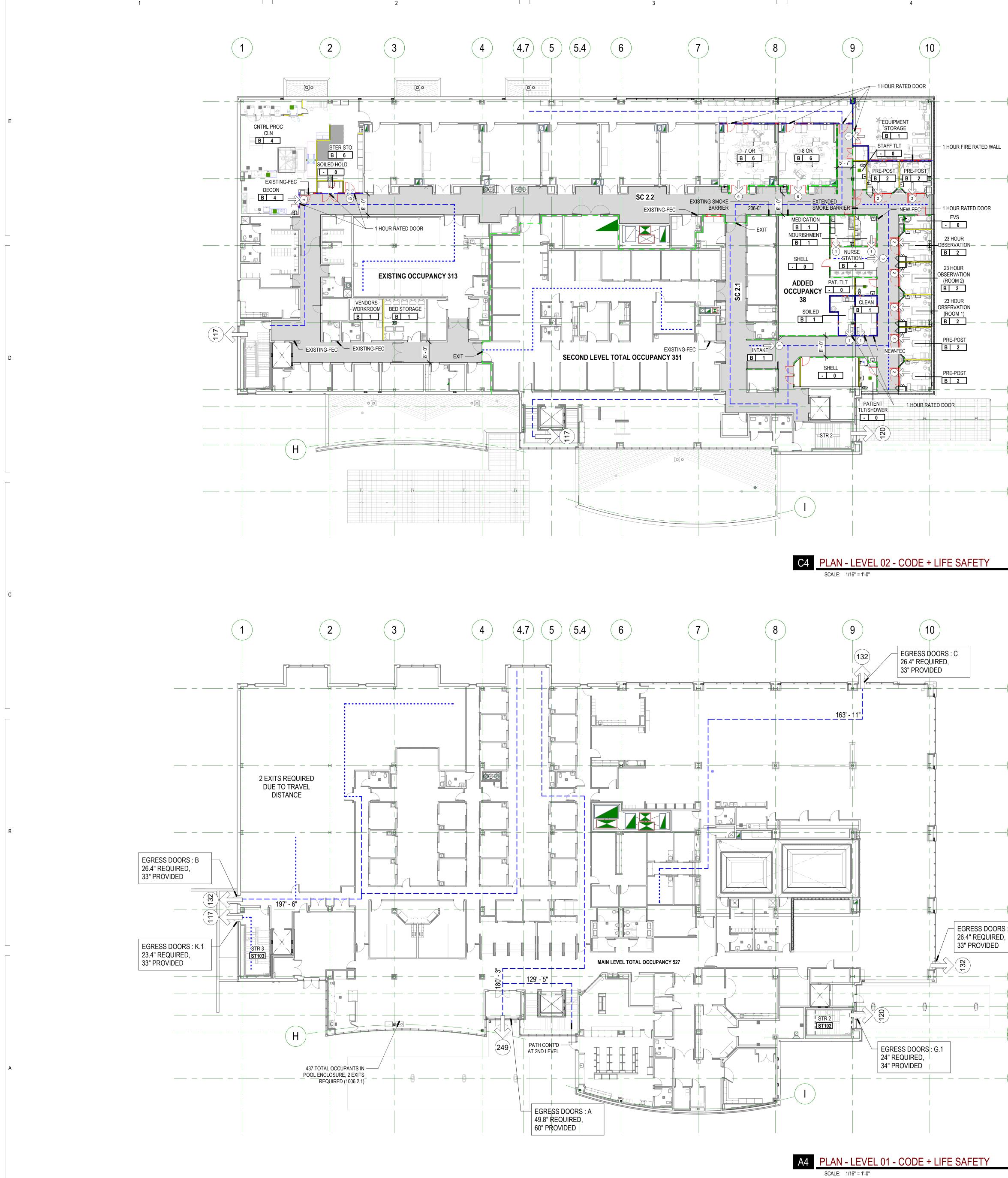
- PROVIDE PROOF OF LICENSURE AS A SPECIAL INSPECTOR BY THE STATE OF UTAH FOR EACH TYPE OF INSPECTION

- INSPECTION REPORTS ARE TO MEET THE REQUIREMENTS OF IBC 1704.1.2

- INSPECTION REPORTS ARE TO BE SUBMITTED TO THE CODE CONSULTANT, ARCHITECT, ENGINEERS, AND THE BUILDING OFFICIAL WITHIN 48 HOURS OF PERFORMING INSPECTIONS

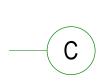
- A FINAL INSPECTION REPORT SHALL BE SUBMITTED FOLLOWING COMPLETION OF THE PROJECT DOCUMENTING THE TYPES OF SPECIAL INSPECTIONS PERFORMED AND A STATEMENT INDICATING THAT THE STRUCTURE IS IN COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND APPLICABLE CODES (SEE IBC 1704.1.2).

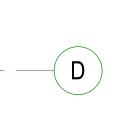




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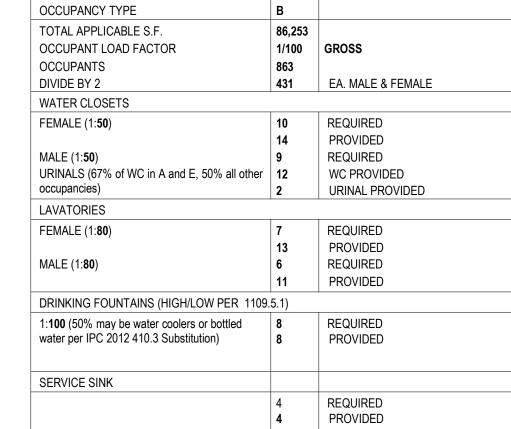
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PLUMBING FIXTURE ANALYSIS

IBC 2018 2902.1

FIRE RATING LEGEND

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KE PARTITION - WALL CONSTRUCTION UR FIRE BARRIER - WALL CONSTRUCTION I OF TRAVEL TO EXIT MON PATH OF TRAVEL TO EXIT

	LEGEND - (OCCUPANCY	
Occupancy Category	Table 10-A	Occupant Load Factor	Total Occupants
	(none)		52

DESIGN DATA

GOVERNING BUILDING CODES: IBC 2018, to include Appendix J; ANSI 117-1 2009; NFPA 101 LIFE SAFETY 2015; IMC 2015; IPC 2015; IECC 2015, for commercial projects; IFGC 2015; NEC 2014

OCCUPANCY TYPE - CH.3 B AND AMBULATORY HEALTH CARE (WHOLE BUILDING IS B OCCUPANCY PER IBC. 2ND LEVEL IS AMBULATORY HEALTH CARE PER NFPA 101)

- ALLOWABLE BUILDING HEIGHT: PER TABLE 504.3: NONE (LOT IS +10 ACRES) EXCEPTION: TOWERS, SPIRES, STEEPLES AND OTHER ROOF STRUCTURES: THE STRUCTURES SHALL BE UNLIMITED IN HEIGHT WHERE OF NONCOMBUSTIBLE MATERIALS AND SHALL NOT EXTEND MORE THAN 20 FEET ABOVE THE ALLOWABLE BUILDING HEIGHT WHERE OF COMBUSTIBLE MATERIALS (SEE CHAPTER 15 FOR ADDITIONAL REQUIREMENTS). ACTUAL HEIGHT - 56' - 4" FEET
- ALLOWABLE STORIES ABOVE GRADE PLANE: PER TABLE 504.4: 5 ACTUAL STORIES - 3 (BASEMENT TO ROOF)

BUILDING AREA: PER TABLE 506.2: 112,500 SQUARE FEET ACTUAL AREA - 86,270 SQUARE FEET

Aa = Allowable area (square feet). At = Tabular allowable area factor (NS, S1, or S13R value, as applicable) in accordance with Table

NS = Tabular allowable area factor in accordance with Table 506.2 for nonsprinklered building (regardless of whether the building is sprinklered). If = Area factor increase due to frontage (percent) as calculated in accordance with Section 506.3. Sa = Actual number of building stories above grade plane, not to exceed three. For buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.2, use the actual number of building stories above grade plane, not to exceed four. **F** = Perimeter of entire building (feet). **W** = Width of public way or open space (feet) in accordance with Section 506.3.2.

MIXED USE OCCUPANCY SEPARATIONS: PER SECTION 508

(SEE ALSO FIRE-RATED WALL PLANS) • GROUP B TO GROUP AMBULATORY HAVE 1 HOUR SEPARATION REQUIREMENT PER TABLE 508.4

INCIDENTAL USE AREAS: PER TABLE 509

- Furnace room where any piece of equipment is over 400,000 Btu per hour input 1 hour **or** provide automatic sprinkler system
- Boiler Rooms where the largest piece of equipment is over 15 psi and 10 horsepower 1 hour or provide automatic sprinkler system
- Laundry rooms over 100 square feet • 1 hour **or** provide automatic sprinkler system
- In ambulatory care facilities or Group I-2 occupancies, waste and linen collection rooms with containers
- that have an aggregate volume of 10 cubic feet or greater 1 hour
- In ambulatory care facilities or Group I-2 occupancies, storage rooms greater than 100 square feet 1 hour

PROTECTION: PER SECTION 509.4.2 Where Table 509 permits an automatic sprinkler system without a fire barrier, the incidental uses shall

be separated from the remainder of the building by construction capable of resisting the passage of smoke.

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:

- PER TABLE 601 PRIMARY STRUCTURAL FRAME - **1** HOUR BEARING WALLS
- EXTERIOR - **1** HOUR - **1** HOUR INTERIOR
- NON-BEARING WALLS & PARTITION INTERIOR - **0** Hour
- FLOOR CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS 1 HOUR ROOF CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS -1 HOUR

AUTOMATIC SPRINKLER SYSTEM: PER SECTION 903 - YES

DESIGN OCCUPANCY LOAD: PER SECTION 1004 BASEMENT LEVEL - 48 OCCUPANTS

MAIN LEVEL - 527 OCCUPANTS UPPER LEVEL - 349 OCCUPANTS

- EGRESS WIDTH FOR OCCUPANCY SERVED: PER 1005 • STAIRS: 0.3 IN / OCC. OR 0.2 IN / OCC. IF AUTOMATIC SPRINKLER PER 903.3.1.1 OR 903.3.1.2 AND EMERGENCY VOICE/ALARM PER 907.5.2.2
- OTHER EGRESS: 0.2 IN / OCC. <u>OR</u> 0.15 IN / OCC. IF AUTOMATIC PER 903.3.1.1 OR 903.3.1.2 AND EMERGENCY VOICE/ALARM PER 907.5.2.2
- REQUIRED STAIR WIDTH: 349 OCCS. x 0.3 = 104.7" TOTAL STAIR WIDTH PROVIDED
- MAIN LEVEL: 527 OCCS. x 0.2 = 105.4" REQUIRED (DOORS, CORRIDOR, ETC) PROVIDED: 225" (NOT INCL. MECH. RM. EXIT DOORS) • UPPER LEVEL: 349 OCCS. x 0.2 = 69.8" REQUIRED OTHER EGRESS
- COMPONENTS (DOORS, CORRIDOR, ETC) PROVIDED: 236" (NOT INCL. MECH. RM. EXIT DOORS)

EXIT ACCESS - CH. 10

COMMON PATH OF EGRESS TRAVEL: PER TABLE 1006.2.1 • (Measured from the most remote point within a story to that point where the occupants have separate access to two exits or exit access doorways) **100** FEET • 1006.2.1 Where the design occupant load or the common path of egress travel distance exceeds the

values listed in Table 1006.2.1

- 2 EXITS REQUIRED PER 1006.3.1 WHERE THE OCCUPANCY LOAD TOTALS MORE THAN 50 PLACE FAR ENOUGH APART - NOT LESS THAT 1/2 MAXIMUM DIAGONAL DIMENSION OF
- AREA SERVED (MEASURED STRAIGHT LINE BETWEEN EXITS) THROUGH INTERVENING SPACES PER 1016.2
- PERMITTED WHERE ADJOINING ROOMS OR AREAS ACCESSORY TO THE AREAS SERVED, IS NOT HIGH HAZARD OCCUPANCY, AND PROVIDE A DISCERNIBLE PATH OF EGRESS TRAVEL TO AN EXIT. TRAVEL DISTANCE: PER TABLE 1017.2
- WITHOUT SPRINKLER SYSTEM 200' MAXIMUM LENGTH OF EXIT ACCESS TRAVEL DISTANCE WITH SPRINKLER SYSTEM - 300' MAXIMUM LENGTH OF EXIT ACCESS TRAVEL SEE MEASUREMENT 1017.3 (INCLUDES COMMON PATH DISTANCE)
- CORRIDOR FIRE RESISTANCE RATING: PER TABLE 1020.1 • WITHOUT SPRINKLER SYSTEM - 1 HOUR FIRE RATED CONSTRUCTION WITH AN OCCUPANT
- LOAD OF <u>></u> 30 • WITH SPRINKLER SYSTEM - 0 HOUR FIRE RATED CONSTRUCTION
- MINIMUM CORRIDOR WIDTH: PER TABLE 1020.2 IN INCHES
- 44 UNLESS NOTED OTHERWISE 36 WITH AN OCCUPANT LOAD OF LESS THAN 50
- 72 AMBULATORY CARE AND AREAS SERVING STRETCHERS 72 GROUP E WITH OCCUPANT LOAD OF 100 OR MORE

DEAD ENDS: PER 1020.4 MUST BE LESS THAN 20' WHERE MORE THAN ONE EXIT IS REQUIRED; OR 50' IN SPRINKLERED BUILDING (EXCEPTION 2) • OR THE LENGTH IS 2.5 TIMES THE WIDTH (EXCEPTION 3)

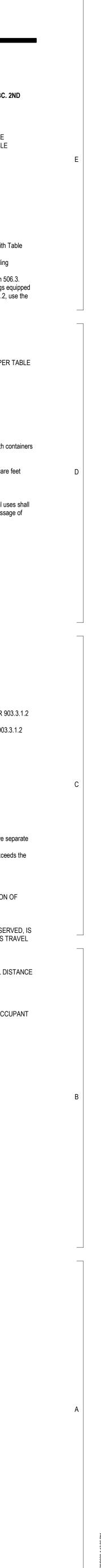
- INTERIOR WALL & CEILING FINISH REQUIREMENTS: PER TABLE 803.11 IN SPRINKLERED BUILDING :
- EXIT ENCLOSURES AND EXIT PASSAGEWAYS CLASS B CORRIDORS AND OTHER EXIT WAYS - CLASS C
- ROOMS AND ENCLOSED SPACES CLASS C
- INTERIOR FLOORS FINISH: PER 804 IN SPRINKLERED BUILDING - CLASS I & II

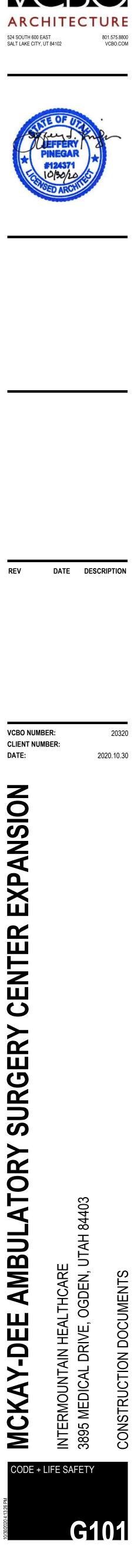
D EGRESS DOORS : D **E.**3 ⊏ ລົ /**C.U**\ E-8 (F.1)

В

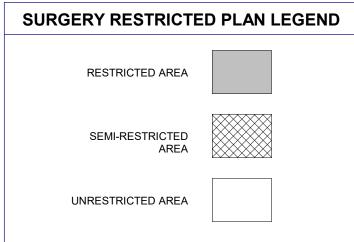
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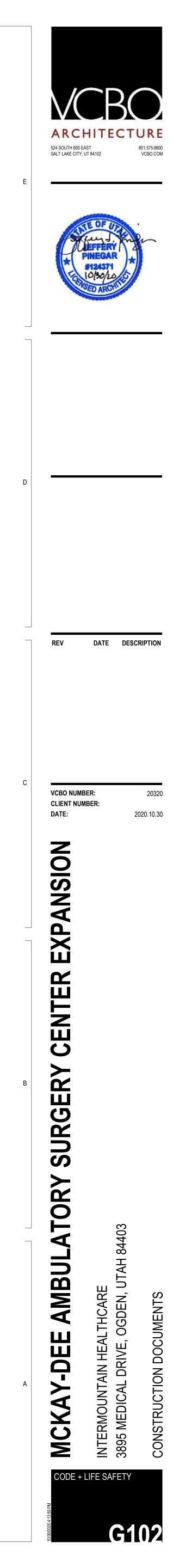






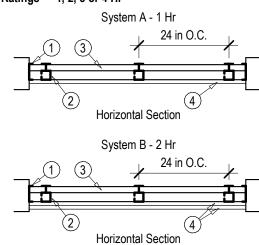


A5 PLAN - LEVEL 02 - SURGERY RESTICTED AREA SCALE: 3/32" = 1'-0"



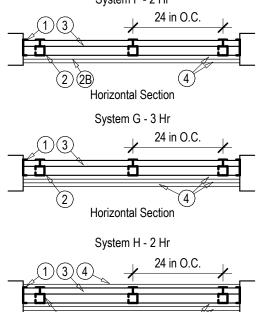
UL DESIGN No. U415 - 1, 2, 3 OR 4 HR SHAFT WALL

Design No. U415 Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr



Horizontal Section

System F - 2 Hr Horizontal Section



1. Floor, Side and Ceiling Runners — "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.

2. Steel Studs — "C-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4A, 4B, 4C, or 4D are

2A. Steel Studs — (Not Shown) — "E" - shaped studs installed back to back in place of "C-H" - shaped studs (Item 2) "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. Furring Channels — (Optional, not shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C-H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B) or cementitious backer units (Item 7).

2C. Furring Channels — For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in.

2D. Steel Framing Members* — (Optional, not shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B) or cementitious backer units (Item 7):

- a. Furring Channels Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4. b. Steel Framing Members* — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips
- spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

2E. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. . Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B), Type X-Ray Shielded Gypsum (Item 4C), Type RPP-Lead Lined Drywall (Item 4F) or cementitious backer units

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire Gypsum board attached to furring channels as described in

b. Steel Framing Members* — Used to attach furring channels (Item 2Ea) to studs. Clips spaced 24 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

2F. Steel Framing Members* — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B) or cementitious backer units (Item 7)

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in, OC perpendicular to study. Channels secured to study as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3. b. Steel Framing Members* — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. PLITEQ INC — Type GENIECLIP

2G. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B), Type X-Ray Shielded Gypsum (Item 4C), Type RPP-Lead Lined Drywall (Item 4F) or cementitious backer units

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to stude as described in Item 2Gb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. b. Steel Framing Members* — Used to attach furring channels (Item 2Ga) to studs. Clips spaced 24 in.

OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. **REGUPOL AMERICA** — Type SonusClip

2H. Steel Framing Members* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B), Type X-Ray Shielded Gypsum (Item 4C), Type RPP-Lead Lined Drywall (Item 4F) or cementitious backer units (Item 7)

a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4. b. Steel Framing Members* — Used to attach resilient channels (Item 2Ha) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

3. Gypsum Board* — Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C-H" studs or the gap between the two 3/4 in, leas of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in, thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.

UNITED STATES GYPSUM CO — Type SLX USG BORAL DRYWALL SFZ LLC — Type SLX USG MEXICO S A DE C V — Type SLX

CGC INC — Type SLX

4. Gypsum Board* — System A - 1 H

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, WRC, WRX, USGX. When ULIX is used insulation, Item 6, Batts and Blankets* is required and minimum stud depth is

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX System B - 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to study with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX USGX WRC WRX UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR, or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX. USG BORAL DRYWALL SFZ LLC - 1/2 in. Type C: 5/8 in. Types C. SCX. SGX. USGX USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR. SCX. SHX. ULX. USGX. WRC. WRX

System C — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per Item 6.

CGC INC — Types IP-X3 or ULTRACODE **UNITED STATES GYPSUM CO** — Types IP-X3 or ULTRACODE **USG BORAL DRYWALL SFZ LLC** — Type ULTRACODE **USG MEXICO S A DE C V** — Types IP-X3 or ULTRACODE

Svstem D — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick mineral wool batts per Item 6.

CGC INC — Types AR. C. IP-AR. IP-X1. IP-X2. IPC-AR. SCX. SHX. ULX. USGX. WRC. WRX UNITED STATES GYPSUM CO - Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX, USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System E — 2 Hr Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. OC when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX UNITED STATES GYPSUM CO - 1/2 in, Types C, IP-X2, IPC-AR; 5/8 in, Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX. USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX,

SHX, ULX, USGX, WRC, WRX System F — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically in two layers. Inner or base layer attached to resilient furring channels (Item 2B) with 1 in. long Type S steel screws spaced 24 in. Outer or face layer attached to resilient furring channels (Item 2B) with 1-5/8 in. long Type S s screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX UNITED STATES GYPSUM CO — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX. **USG BORAL DRYWALL SFZ LLC** — 1/2 in. Type C; 5/8 in. Types C, SCX USG MEXICO S A DE C V - 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-

System G — 3 Hr

AR. SCX. SHX. ULX. USGX. WRC. WRX

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. . Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on

CGC INC — Types C, IP-X2, IPC-AR, WRC UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, WRC

USG BORAL DRYWALL SFZ LLC — Type C USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System H — 3 Hr

adiacent lavers.

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, WRC

UNITED STATES GYPSUM CO - Types C, IP-X2, IPC-AR, WRC USG BORAL DRYWALL SFZ LLC — Type C USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System I — 4 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 4 ft wide (or 1200 mm for metric spacing) wallboard with square or tapered edges. Total of four layers to be used. First and second (inner) layers applied vertically or horizontally over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints centered over studs and staggered min 24 in., otherwise all joints staggered min 12 in. First layer secured to studs with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Third layer applied vertically over the furring channels (Item 2C) with a 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Fourth layer applied vertically or horizontally with 2-1/4 in. long Type S self-drilling, selftapping bugle-head steel screws spaced 12 in. OC. When applied vertically, joints to be staggered min 24 in. from third layer, otherwise all joints staggered min 12 in.

CGC INC — Types IP-X3 or ULTRACODE **UNITED STATES GYPSUM CO** — Types IP-X3 or ULTRACODE **USG BORAL DRYWALL SFZ LLC** — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

4A. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10). **RAY-BAR ENGINEERING CORP** — Type RB-LBG

4B. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or #6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Type Nelco

4C. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges. applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4D. Gypsum Board* - (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". **RADIATION PROTECTION PRODUCTS INC** — Type RPP - Lead Lined Drywall

5. Joint Tape and Compound — (Not Shown) Systems A, B, C, E, F, G, H, I

Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

6. Batts and Blankets* ----Systems A, B, E, F, G, H, I (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance. System A With Type ULIX Gypsum Boards Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of

Classified companies Systems C & D Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

ROCKWOOL — Type AFB **THERMAFIBER INC** — Type SAFB, SAFB FF

7. Cementitious Backer Units* - (System D) - Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. OC and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints. **UNITED STATES GYPSUM CO** — Type DCB

8. Laminating Adhesive* - (Optional, Not Shown) - Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (Item 4) in System D. ANSI A136.1 Type 1 organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (BYWR) in the Fire Resistance Directory or Adhesives (BJLZ) in the Building Materials Directory for names of Classified companies.

9. Lead Batten Strips — (Not Shown, For Use With Item 4A) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in, long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Required behind vertical joints.

9A. Lead Batten Strips — (Not Shown, for use with Item 4C) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D".. Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

10. Lead Discs or Tabs — (Not Shown, For Use With Item 4A) — Used in lieu of or in addition to the lead batten strips (Iter 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f. Grade "C".

10A. Lead Discs — (Not Shown, for use with Item 4C) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B. C or D".

11. Lead Batten Strips — (Not Shown, For Use With Item 4B) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations.

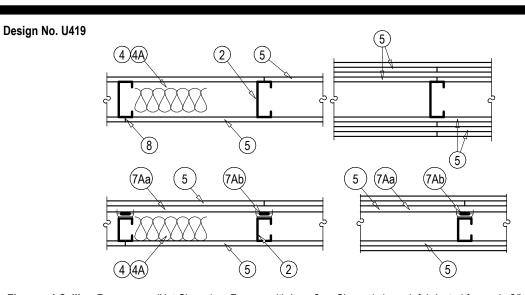
12. Lead Tabs — (Not Shown, For Use With Item 4B) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs frictionfit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary. * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL

Certification (such as Canada), respectively. Reprinted from the Online Certifications Directory with permission from UL

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UL DESIGN NO. U419 - 1, 2, 3 OR 4 HR NON-BEARING WALL (SEE ITEMS 4 & 5 THROUGH 5K)

Last Updated on 2018-09-27



1. Floor and Ceiling Runners — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25[™] Track **FUSION BUILDING PRODUCTS** — Viper25[™] Track **IMPERIAL MANUFACTURING GROUP INC** — Viper25[™] Track

1B. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track FUSION BUILDING PRODUCTS — Viper20[™] Track

IMPERIAL MANUFACTURING GROUP INC — Viper20[™] Track

1C. Framing Members* — Floor and Ceiling Runners — (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20 QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20 SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20 STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20 **UNITED METAL PRODUCTS INC** — Type SUPREME D24/30EQD and Type SUPREME D20

1D. Floor and Ceiling Runners — (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC. 1E. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with

Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max. **CLARKDIETRICH BUILDING SYSTEMS** — CD ProTRAK DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK **RAM SALES L L C** — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1E. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max **CLARKDIETRICH BUILDING SYSTEMS** — CD ProTRAK

DMFCWBS L L C — ProTRAK **MBA METAL FRAMING** — ProTRAK

RAM SALES L L C — Ram ProTRAK STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1F. Framing Members* - Floor and Ceiling Runner - Not Shown - In lieu of Item 1 - For use with Item 2F. proprietary channel shaped runners, minimum width to accommodate stud size, with 1-1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC SUPER STUD BUILDING PRODUCTS — The Edge

1G. Framing Members* — Floor and Ceiling Runner — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max. **STUDCO BUILDING SYSTEMS** — CROCSTUD Track

1H. Floor and Ceiling Runners - (Not Shown) - Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. oalv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC. MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100 FUSION BUILDING PRODUCTS — Viper20[™] Track VT100 **IMPERIAL MANUFACTURING GROUP INC** — Viper20[™] Track VT100

11. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max. TELLING INDUSTRIES L L C — TRUE-TRACK™

1J. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max. TELLING INDUSTRIES L L C — Viper25[™] Track

1K. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick calv steel. attached to floor and ceiling with fasteners spaced 24 in. OC max. TELLING INDUSTRIES L L C — Viper20[™] Track

1L. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. **STEEL INVESTMENT GROUP L L C** — AlphaTRAK

UL DESIGN No. U419 (continued)

1M. Framing Members* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 5A. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer 20, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling to one side of the assembly. Secured as described in Item 6. CGC INC — Type SHX with fasteners spaced 24 in. OC max. RONDO BUILDING SERVICES PTY LTD - Rondo Wall Track **UNITED STATES GYPSUM CO** — Type FRX-G, SHX. **USG MEXICO S A DE C V** — Type SHX. 1N. Framing Members* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item

2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. **OEG BUILDING MATERIALS** — OEG Track

10. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2Q. proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X Track

2. Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in, OC, Studs to be cut 3/8 to 3/4 in, less than assembly height. 2A. Steel Studs — (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J and 5K) — Channel shaped, fabricated

floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height. 2B. Framing Members* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or 5K) — Proprietary

channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of avosum board only. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ CRACO MFG INC — SmartStud25™ MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ FUSION BUILDING PRODUCTS — Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper25[™] 2C. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in, to 3/4 in, less in lengths than assembly heights. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ FUSION BUILDING PRODUCTS — Viper20™ **IMPERIAL MANUFACTURING GROUP INC** — Viper20™

2D. Framing Members* — Steel Studs — In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5. spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20 CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20 **SCAFCO STEEL STUD MANUFACTURING CO** — Type SUPREME D24/30EQD and Type SUPREME D20 **STEEL CONSTRUCTION SYSTEMS INC** — Type SUPREME D24/30EQD and Type SUPREME D20 UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2E. Framing Members* — Steel Studs — (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or 5K only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD DMFCWBS L L C — ProSTUD **MBA METAL FRAMING** — ProSTUD

RAM SALES L L C — Ram ProSTUD STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2F. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights. SUPER STUD BUILDING PRODUCTS — The Edge

2G. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5. Studs to be cut 3/8 to 3/4 in less than the assembly height. STUDCO BUILDING SYSTEMS - CROCSTUD

2H. Framing Members* — Steel Studs — (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. TELLING INDUSTRIES L L C — TRUE-STUD™

21. Framing Members* — Steel Studs — (As an alternate to Item 2, For use with Items 5C or 5L or 5K) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly heigh and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of avpsum board only. TELLING INDUSTRIES L L C — Viper25™

2J. Framing Members* — Metal Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights TELLING INDUSTRIES L L C — Viper20™

2K. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. EB METAL INC — NITROSTUD

2L. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. **OLMAR SUPPLY INC** — PRIMESTUD

2M. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in less than assembly height MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2N. Framing Members*— Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height. **STEEL INVESTMENT GROUP L L C** — AlphaSTUD

20. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

2P. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max. **OEG BUILDING MATERIALS** — OEG Stud

2Q. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 10, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X

3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. Batts and Blankets* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4A. Batts and Blankets* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4B. Batts and Blankets* — For use with Item 5K. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4C. Fiber, Sprayed* — (Optional) and as an alternate to Batts and Blankets (Item 4B) where insulation is required -Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See **Fiber**, Sprayed (CCAZ). AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

5. Gypsum Board* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Rating, Hr	Min Stud Depth, in.	No. of Layers & Thkns of Panel	Min Thkns Insulation
	Items 2, 2C, 2D, 2F, 2G, 2O		inculation
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 lavers, 3/4 in. thick	Optional
<u>3</u> 3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE **UNITED STATES GYPSUM CO** – 1/2 in. thick Type C. IP-X2, IPC-AR or WRC: 5/8 in. thick Type SCX, SGX, SHX. WRX. IP-X1. AR. C. WRC. FRX-G. IP-AR. IP-X2. IPC-AR: 3/4 in. thick Types IP-X3 or ULTRACODE USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into

CGC INC — Type USGX

nkns of

5B. Gypsum Board* — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall

when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12). **RAY-BAR ENGINEERING CORP** — Type RB-LBG

5C. Gypsum Board* — (For Use With Item 2B) — Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as

CGC INC — Type SCX. **UNITED STATES GYPSUM CO** — Type SCX, SGX. **USG BORAL DRYWALL SFZ LLC** — Type SCX

outlined under section VI of Volume 1 in the Fire Resistive Directory.

5D. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only

UNITED STATES GYPSUM CO — Type USGX USG BORAL DRYWALL SFZ LLC — Type USGX

USG MEXICO S A DE C V — Type USGX

USG MEXICO S A DE C V — Type SCX

5E. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in, thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

5F. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in. UNITED STATES GYPSUM CO - 5/8 in. thick Type SCX, SGX **USG BORAL DRYWALL SFZ LLC** — 5/8 in. thick Type SCX, SGX

5G. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel raming. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2E	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
		-	

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, , FRX-G, IP-AR, IP-X2, IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE **USG BORAL DRYWALL SFZ LLC** — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-

AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

5H. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or _ead Discs (see Item 12A) MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

51, Gypsum Board* — (As an alternate to Item 5) — Nom, 5/8 in thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5. CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX USG MEXICO S A DE C V — Type ULX

5J. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5K. Gypsum Board* — (Not Shown) — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) need not be staggered. The number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows: Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2 through 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-5/8	1 layer, 5/8 in. thick	3-1/2 in.
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional

UNITED STATES GYPSUM CO — 5/8 in. thick Type ULIX

6. Fasteners — (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

7. Furring Channels — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A.

7A. Framing Members* - (Optional on one or both sides, not shown, for single or double layer systems) - As an alternate to Item 7, furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring

b. Steel Framing Members* — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. JC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 X 1-1/2 in. minimum seit-drilling, S-12 steel scre through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum selfdrilling. S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL L L C - Types RSIC-1, RSIC-V, RSIC-1 (2,75), RSIC-V (2,75),

channels as described in Item 6. Not for use with Item 5A.

7B. Framing Members* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips. **KINETICS NOISE CONTROL INC** — Type Isomax

7C. Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. PLITEQ INC — Type GENIECLIP

7D. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

7E. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to study as described in Item 7Eb. Ends of adjoining channels overlapped 6 in, and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. Steel Framing Members* — Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. **REGUPOL AMERICA** — Type SonusClip

7F. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Framing Members as described below: a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5. Not for use with Item 5A and 5E. b. Steel Framing Members* — Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC., and

secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in, wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. Caulking and Sealants* — (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for sound control. UNITED STATES GYPSUM CO — Type AS

11. Lead Batten Strips — (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

11A. Lead Batten Strips — (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

12. Lead Discs or Tabs — (Not Shown, For Use With Item 5B) — Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

12A. Lead Discs — (Not Shown, for use with Item 5H) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

13. Lead Batten Strips — (Not Shown, For Use With Item 5E) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. Lead Tabs — (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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Last Updated on 2018-09-28

524 SOUTH 600 FAST 801.575.8800 SALT LAKE CITY, UT 84102 VCBO.COM



VCBO NUMBER CLIENT NUMBER:

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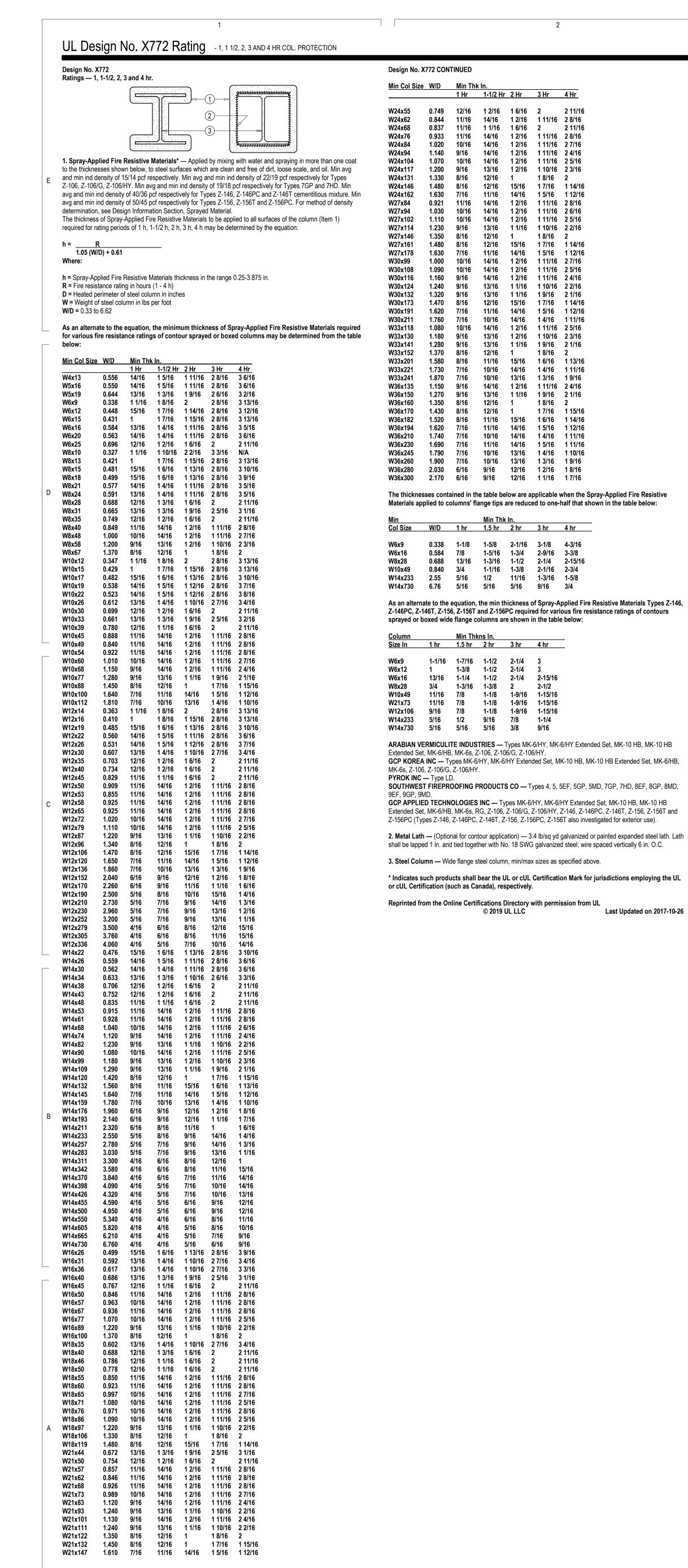
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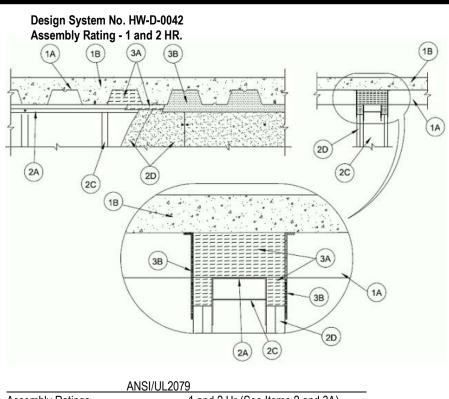
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IL RATED METAL STUD WALL ASSEMBLIES





— 1 and 2 Hr (See Items 2 and 3A) Assembly Ratings Nominal Joint Width <u>Class II Movement Capabilities — 50% Compression or Extension</u> L Rating At Ambient — Less Than 1 CFM/Lin Ft

1. Floor Assembly — The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features: A. Steel Floor And Form Units* — Max 3 in. (76 mm) deep galv steel fluted units

— Less Than 1 CFM/Lin Ft

A1. Steel Floor And Form Units* (Configuration B) — Composite max 2.5 in. (64 mm) deep galv steel fluted units. EPIC METALS CORP — Types "EC" or "Toris C"

B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor

C. Spray-Applied Fire Resistive Materials* — (Optional, Not Shown) — Prior to or after the installation of the steel ceiling runners, Forming Material and Fill, Void or Cavity Material (Items 2A, 3A, 3B, respectively) the steel floor units may be sprayed with a min 5/16 in. (8 mm) to max 1-3/4 in. (45 mm) thickness of fire resistive material.

GCP APPLIED TECHNOLOGIES INC — Types MK-6-HY or MK-10HB **ISOLATEK INTERNATIONAL** — Type 300

L Rating At 400°F

1A. Roof Assembly - (Not Shown) - As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:

A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck. A1. Steel Floor And Form Units* (Configuration B) — Composite max 2.5 in. (64 mm) deep galv steel fluted units. EPIC METALS CORP — Types "Toris C" or "ER2R"

B. Roof Insulation — Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.

Last Updated on 2017-10-26

1B. Roof Assembly — As an alternate to Items 1 and 1A, a fire rated protected fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:

A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck. A1. Steel Floor And Form Units* (Configuration B) — Composite max 2.5 in. (64 mm) deep galv steel fluted units. EPIC METALS CORP — Type "Toris C"

B. Spray Applied Fire Resistive Materials* — (Not Shown) — Prior to or after the installation of the steel ceiling runners. Forming Material and Fill, Void or Cavity Material (Items 2A, 3A, 3B), the roof assembly shall be sprayed with the type and thickness of fire resistive material indicated in the individual P700 Series

GCP APPLIED TECHNOLOGIES INC — Types MK-6-HY or MK-10HB **ISOLATEK INTERNATIONAL** — Type 300

2. Wall Assembly — The 1 or 2 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Steel Floor And Ceiling Runners — Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2C). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC. before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material. A1. Light Gauge Framing* — Slotted Ceiling Runner — As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2C). Slotted ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel fasteners or welds spaced max 24 in. (610 mm) OC before optional spray-applied fire resistive material is used. Ceiling runner installed perpendicular to direction of fluted steel deck and secured

to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC. before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material. BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS - SLP-TRK CALIFORNIA EXPANDED METAL PRODUCTS CO - CST CLARKDIETRICH BUILDING SYSTEMS - Type SLT, SLT-H

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — SDT250, SDT300 MARINO/WARE, DIV OF WARE INDUSTRIES INC - Type SLT METAL-LITE INC — The System

OLMAR SUPPLY INC — STT250, STT300 **R & P SUPPLY** — SCT250, SCT300

RAM SALES L L C — RAM Slotted Track SCAFCO STEEL STUD MANUFACTURING CO

TELLING INDUSTRIES L L C — True-Action Deflection Track

A2. Light Gauge Framing* — Vertical Deflection Ceiling Runner — When the nom joint width is less than or equal to 3/4 in. (19 mm), vertical deflection ceiling runner may be used as an alternate to the ceiling runners in Items 2A and 2A1. Vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips provided with step bushings for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2C). Vertical deflection ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC. before or after optional sprayapplied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material. THE STEEL NETWORK INC — VertiTrack VTD250, VTD362, VTD400, VTD600 and VTD800

A3. Light Gauge Framing* - Notched Ceiling Runner - As an alternate to the ceiling runners in Items 2A through 2A3, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2C). Notched ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC. before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional sprayapplied material. **OLMAR SUPPLY INC** — Type SCR

B. Steel Attachment Clips - (Optional - Not Shown) - When spray applied fireproofing is used ceiling runner may be secured to deck with Z-shaped clips formed from min 1 in. (25 mm) long strips of min 20 ga galv steel. Length of clips should not exceed the width (thickness) of the wall. Clips to be sized to extend through the thickness of the spray-applied fire-resistive material on the bottom of the steel deck with 1-1/2 or 2 in. (38 or 51 mm) long upper and lower legs. Legs of clips fastened to valleys of steel deck (prior to application of sprav-applied fire-resistive materials) and top of ceiling runner with steel masonry anchors. steel fasteners or welds. Clips spaced max 24 in. (610 mm) OC.

C. Studs — Steel studs to be min 2-1/2 in. (64 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When Epic Metals composite floor or roof deck (Item 1A1) is used, steel studs to be min 3-5/8 in. (92 mm) wide. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through the bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in. (610 mm) OC.

D. Gypsum Board* — Gypsum board installed to a min total thickness of 5/8 in. and 1-1/4 in. (16 and 32 mm) on each side of wall for 1 and 2 hr rated assemblies, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a max 1 in. (25 mm) gap shall be maintained between the top of the gypsum board and the bottom of the steel deck units and the top row of screws shall be installed into the studs 1-1/2 to 2 in. (38 to 51 mm) below the bottom of the ceiling runner. The hourly rating of the joint system is dependent on the hourly rating of the wall.

3. Joint System — Max separation between bottom of floor or roof and top of wall at time of installation of joint system is 1 in. (13 mm). The joint system is designed to accommodate a max 50 percent compression or extension from its installed width. The joint system consists of forming material and a fill material, as follows: A. Forming Material* — Nom 4 pcf (64 kg/m³) density mineral wool batt insulation cut with a length approx equal to the overall thickness of the wall. Multiple pieces stacked on top of each other, as needed, and then compressed 25 percent in thickness and inserted into the flutes of the steel deck above the top of the ceiling runner. The mineral wool batt insulation is to project beyond each side of the ceiling runner. flush with wall surfaces. Alternately, nom 4 pcf (64 kg/m³) forming material cut to shape of flute and nom 1 in. (25 mm) longer than thickness of wall; mineral wool compressed from ends and firmly packed into each flute to attain a min compression rate of 14.3 percent in the length (wall thickness) direction to be flush with both wall surfaces. When Epic Metals Type "EC", "ER2R" or Type "Toris C" decks (Item 1A1) are used, the mineral wool is to be tightly packed into the inverted flutes to the full thickness of the wall. In addition, for the Epic Metals "Toris C" deck, the mineral wool is to be packed to min 25% compression within the recessed indentations immediately above the ceiling runners. Additional 5/8 in. and 1-1/4 in. (16 and 32 mm) wide strips for 1 and 2 hr rated assemblies, respectively, of nom 4 pcf (64 kg/m³) mineral wool batt insulation are to be cut to fill the gap between the top of the gypsum board and bottom of the steel deck. The strips of mineral wool are compressed 50 percent and tightly packed, cut edge first, into the gap between the top of the gypsum board and bottom of the steel deck on both sides of the wall. INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing ROCK WOOL MANUFACTURING CO — Delta- Board

ROCKWOOL — SAFE THERMAFIBER INC — Type SAF A1. Forming Material* - Plugs - (Optional, Not Shown) - Preformed mineral wool plugs, formed to the shape of the trapezoidal fluted floor units, friction fit to completely fill the flutes above the ceiling channel. The plugs shall project beyond each side of the ceiling runner, flush with wall surfaces. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of gypsum board and bottom of steel floor units. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CP777 Speed Pluas

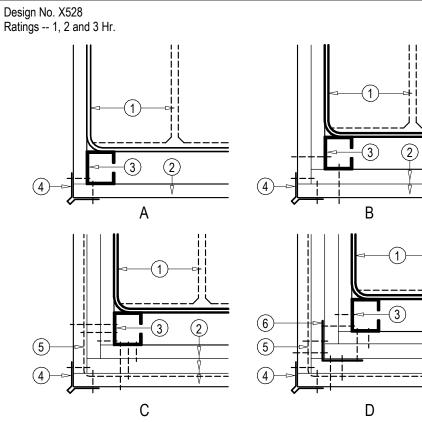
A2. Forming Material* — Strips — (Optional) — Nom 5/8 in. and 1-1/4 in. (16 and 32 mm) wide by 2 in. (51 mm) high precut mineral wool strips for 1 and 2 hr rated assemblies respectively. The strips are compressed 50 percent and firmly packed, cut edge first, into the gap between the top of the gypsum board and bottom of the steel floor units on both sides of the wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CP 767 Speed Strips

B. Fill, Void or Cavity Material* — Min 1/16 in. (1.6 mm) dry thickness (1/8 in. or 3.2 mm wet thickness) of fill material sprayed or troweled on each side of the wall to completely cover mineral wool forming material and to overlap a min of 1/2 in. (13 mm) onto gypsum board and steel deck on both sides of wall. When Spray-Applied Fire Resistive Material* is applied to the Steel Floor and Form Units*, the fill material is to overlap the gypsum board a min of 1/2 in. (13 mm) and the Spray-Applied Fire Resistive Material a min of 2 in. (51 mm) on both sides of wall. When spray-applied fire resistive materials are used, the firestop ioint sprav shall overlap the wall a min 1/2 in. (13 mm) and overlap the spray-applied fire resistive material a min of 2 in. (51 mm) on both sides of the wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-SP WB Firestop Joint Spray

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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Design No. X528 Rating



- 1, 2, OR 3 HR COLUMN PROTECTION

CORNER DETAILS OF WALLBOARD SUPPORT SYSTEMS WITHOUT STEEL COVERS

Steel Column -- Min sizes of W-shaped and tubular steel columns which appear in the AISC Steel Construction Manual as shown under Item 2

2. Gypsum Board* -- Any 1/2 in. thick UL Classified Gypsum Board that is eligible for use in Design No. X515. Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Nom 1/2 in. or 5/8 in. thick gypsum board. Applied in layers as noted in the above illustrations. Boards are to be applied vertically without horizontal joints. Min total thickness of layers in inches for the various ratings and min column sizes are as follows:

W Shaped Column	Rati	ng (Hr)	Со	mer D)etails	For Various Rating
Min Column Size	1	2 3		1 H	r 2 H	r 3 Hr
		Total th	nickness (In.)		
W4x13	1	1-1/2	2-1/4	B	С	D
W6x15.5	1	1-1/2	2-1/4	В	С	D
W10x49	1/2	1-1/8	1-7/8	А	В	С
Tube Shaped colum	ins					
TS 4 by 4 by 0.188	1	1-3/4	2-5/8	В	С	D
TS 8 by 8 by 0.250	5/8	1-1/2	2-1/4	А	С	D
· ·						

ACADIA DRYWALL SUPPLIES LTD — CKNX.R25370

AMERICAN GYPSUM CO — CKNX.R14196 **BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO** — CKNX.R19374

CERTAINTEED GYPSUM INC — CKNX.R3660 CGC INC — CKNX.R19751 CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — CKNX.R18482 GEORGIA-PACIFIC GYPSUM L L C - CKNX.R2717

LOADMASTER SYSTEMS INC - CKNX.R11809 NATIONAL GYPSUM CO — eXP-C, CKNX.R3507

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — CKNX.R7094 PANEL REY S A — CKNX.R21796 SIAM GYPSUM INDUSTRY (SARABURI) CO LTD - CKNX.R19262

THAI GYPSUM PRODUCTS PCL — CKNX.R27517 **UNITED STATES GYPSUM CO** — CKNX.R1319

USG BORAL DRYWALL SFZ LLC — CKNX.R38438 USG MEXICO S A DE C V — CKNX.R16089

2A. Gypsum Board* — As an alternate to Item 2- 3/4 in. thick gypsum wallboard. For 2 Hr rating, 1-1/2 in. total thickness, installed in accordance with corner detail B. For 3 Hr rating, 2-1/4 in. total thickness installed in accordance with corner detail C. Boards are to be applied vertically without horizontal joints. CGC INC — Type IP-X3 or ULTRACODE **UNITED STATES GYPSUM CO** — Type IP-X3 or ULTRACODE **USG BORAL DRYWALL SFZ LLC** — Type ULTRACODE

USG MEXICO S A DE C V - Type IP-X3 or ULTRACODE 2B. Gypsum Board* — (As an alternate to Items 2 and 2A) — Nominal 5/8 in. thick panels. One of the

lavers of Gypsum Board (Item 2) used to obtain the minimum required thickness in Item 2 may be substituted with one layer and secured as described in Item 2. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES

2C. Wall and Partition Facings and Accessories* — (As an alternate to Item 2 through 2B) — Composite Gypsum Panel — Nominal 5/8 in, thick panels. One of the layers of Gypsum Board (Item 2) used to obtain the minimum required thickness in Item 2 may be substituted with one layer of composite gypsum panel and secured as described in Item 2. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR

3. Steel Stud — 1-5/8 in. wide with 1-5/16 and 1-7/16 in. legs having a 1/4- in. folded flange, fabricated from No. 25 MSG galv steel. Length to be 1/2 in. less than the assembly height.

3A. As an alternate to Item 3 Steel Framing Members* — galy, steel clips spaced 4 ft OC and 1-1/4 in. from top and bottem of column. A No. 28 MSG galv steel support angle with 1-1/4 in. length shall be placed over clips and secured with screws attaching the wallboard. The angle cut 1 in. less than assembly height splices in angle to occur over clips. The clips for use with wide flange columns only. JOHN WAGNER ASSOCIATES INC, DBA GRABBER — Types CB, CB1Clips.

4. Corner Beads — No. 28 MSG galv steel, 1-1/4 in. legs to be attached to the wallboard with No. 6 by 1 in. screws spaced 12 in. OC max.

5. Tie Wire — No. 18 SWG steel wire spaced 24 in. OC used with second layer of wallboard. 6. Screws — For attaching first layer of wallboard to steel studs, and third layer of wallboard to 2 in, by 2 in. steel angle (25 Ga) to be No. 6 by 1 in. (or 1-1/4 in. for 3/4 in. thick wallboard) Phillips head selfdrilling, self-tapping double lead screws spaced 24 in, OC For attaching second laver of wallboard to steel studs and fourth layer of wallboard to 2 in. by 2 in. steel angle (25 Ga) to be No. 6 by 1-3/4 in. (or 2-1/4 in. for 3/4 in. thick wallboard) steel screws of the same type spaced 12 in. OC For attaching third layer of wallboard to steel studs to be No. 8 by 2-1/4 in. screws of the same type spaced 12 in. OC 7. Finishing System — (Not Shown) — Joint compound applied over corner beads to a thickness of

1/16 in * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL

or cUL Certification (such as Canada), respectively. Reprinted from the Online Certifications Directory with permission from UL

© 2019 UL LLC Last Updated on 2017-10-24 Horizontal Section

Vertical Section

1. Studs - Channel shaped, min. 1 5/8 in. depth. Fabricated from No. 25 MSG galv steel. Studs to be cut 1/4 in.

1A. Framing Members*— Steel Studs — As an alternate to Item 1 for a 2 hour rating only - For use with Item

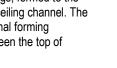
3A, channel shaped studs, min 1-5/8 in. wide, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than

Design No. U420 Nonbearing Wall Rating -- 1 or 2 HR.

Nonbearing Wall Rating -- 1 or 2 HR.

less than assembly height.

assembly height.



Last Updated on 2019-02-07

CLARKDIETRICH BUILDING SYSTEMS - CD ProSTUD DMFCWBS L L C — ProSTUD **MBA METAL FRAMING** — ProSTUD

RAM SALES L L C — Ram ProSTUD **STEEL STRUCTURAL PRODUCTS L L C** — Tri-S ProSTUD

1B. Framing Members*— Steel Studs — As an alternate to Item 1- For use with Item 3B, channel shaped studs, min 1-5/8 in. wide, fabricated from No. 25 MSG galv steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in, less than assembly height. KIRII (HONG KONG) LTD — Type KIRII

1C. Framing Members*- Steel Studs - As an alternate to Item 1- For use with Item 3, channel shaped studs, min 1-5/8 in. wide, fabricated from No. 25 MSG galv steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. EB METAL INC - NITROSTUD

1D. Framing Members* — Steel Studs — As an alternate to Item 1 - For use with Item 3C, channel shaped, min 3-5/8 in. wide, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. **BAILEY METAL PRODUCTS LTD** — Type PLATINUM PLUS

1E. Framing Members*- Steel Studs - As an alternate to Item 1 for a 2 hour rating only - For use with Item 3D, channel shaped studs, min 1-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25™

FUSION BUILDING PRODUCTS — Viper25™ **IMPERIAL MANUFACTURING GROUP INC** — Viper25[™]

2. Bracing - Cut from the steel runners, min. 4-1/4 in. long, fastened to the studs with two No. 8 by 1/2 in. long self-drilling, self-tapping steel screws in each stud. As an alternate, but limits the stud cavity depth to maximum 9-1/2 in., cut from the gypsum wallboard, 9-1/2 in. long and 12 in. wide, fastened to the studs with three Type S wallboard screws in each stud. Vertical spacing of bracing not to exceed 48 in. OC.

3. Floor and Ceiling Runners — Channel — shaped 1 5/8 in. wide with 1 in. legs, fabricated from No. 25 MSG galv steel. Attached to floor and ceiling with fasteners spaced 24 in. OC. 3A. Framing Members*— Floor and Ceiling Runners — (Not shown) — As an alternate to Item 3 for a 2 hour rating only - For use with Item 1A, channel shaped, min 1-5/8 in. wide, attached to floor and ceiling with fasteners 24 in. OC. max.

DMFCWBS L L C — ProTRAK **MBA METAL FRAMING** — ProTRAK

RAM SALES L L C — Ram ProTRAK **STEEL STRUCTURAL PRODUCTS L L C** — Tri-S ProTRAK

3B. Framing Members*— Floor and Ceiling Runners — (Not shown) — As an alternate to Item 3 - For use

with Item 1B, channel shaped, min 1-5/8 in. wide fabricated from No. 25 MSG, attached to floor and ceiling with fasteners 24 in. OC. max. KIRII (HONG KONG) LTD — Type KIRII

3C. Framing Members* — Floor and Ceiling Runners — (Not Shown) — As an alternate to Item 3 - For use with Item 1D. Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max. **BAILEY METAL PRODUCTS LTD** — Type PLATINUM PLUS

3D. Framing Members*— Floor and Ceiling Runners — (Not shown) — As an alternate to Item 3 for a 2 hour rating only - For use with Item 1E, channel shaped, min 1-5/8 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max. MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™Track

FUSION BUILDING PRODUCTS — Viper25[™] Track **IMPERIAL MANUFACTURING GROUP INC** — Viper25[™] Track

4. Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Nom 5/8 in. thick gypsum board with beveled, square, or tapered edges. For 1 Hr Rating — One layer of gypsum board to be used. Applied vertically with joints centered over studs. Fastened to studs with 1 in. long, Type S, gypsum board screws spaced 8 in. OC at the joints, located 3/8 in. from the edges, and 12 in, OC in the field. Fasteners to be spaced 8 in, OC at the runners. For 2 Hr Rating — Two layers of gypsum board to be used. The inner layer to be applied in the same manner as for the 1 Hr Rating. The outer layer to be fastened to the studs (through the inner layer) using 1 5/8 in. long, Type S. wallboard screws spaced 8 in. OC at the joints, located 3/8 in. from the edges and 12 in. OC in the field. Fasteners to be spaced 8 in. OC at the runners. Joints to be staggered 24 in. from the inner layer. ACADIA DRYWALL SUPPLIES LTD — CKNX.R25370 AMERICAN GYPSUM CO — CKNX.R14196 **BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO** — CKNX.R19374 **CERTAINTEED GYPSUM INC** — CKNX.R3660

CGC INC — CKNX R1975 **CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C** — CKNX.R18482 GEORGIA-PACIFIC GYPSUM L L C — CKNX.R2717 LOADMASTER SYSTEMS INC — CKNX.R11809 NATIONAL GYPSUM CO — CKNX.R3501

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — CKNX.R15208 PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — CKNX.R7094

PANEL REY S A — CKNX.R21796 SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — CKNX.R19262 SAINT-GOBAIN GYPROC MIDDLE EAST FZE — CKNX.R27321 THAI GYPSUM PRODUCTS PCL — CKNX.R27517 **UNITED STATES GYPSUM CO** — CKNX.R1319

USG BORAL DRYWALL SFZ LLC — CKNX.R38438 USG MEXICO S A DE C V — CKNX.R16089

tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (2-hr system) staggered one stud cavity. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed with steel framing. Horizontal edge joints and horizontal butt joints in adjacent layers (2-hr system) staggered a minimum of 12 in. For the single layer system, panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when applied vertically. For the double layer system, base layer panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 16 in. Face layer panels attached to steel studs and floor runner with 1-5/8 in. long Type S steel screws spaced 16 in. OC. CGC INC — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

4A. Gypsum Board* — (As alternate to Item 4) - Nom 5/8 in. thick gypsum panels with beveled, square or

UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or USG BORAL DRYWALL SFZ LLC — Types C, SCX USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

4B. Gypsum Board* - (As an alternate to Items 4 or 4A) - Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4A with screw length increased to 1-1/4 in. CGC INC — Types AR, IP-AR.

UNITED STATES GYPSUM CO — Types AR, IP-AR. USG MEXICO S A DE C V — Types AR, IP-AR.

4C. Gypsum Board* - (As an alternate to Items 4 through 4B) - Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM - Type QuietRock ES.

4D. **Gypsum Board*** — As an alternate to Item 4 - For 2 Hr Rating - Nom. 5/8 in. thick gypsum board with beveled, square, or tapered edges. Two layers of gypsum board to be used. Inner layer applied vertically with joints centered over studs. Fastened to studs with 1 in. long, Type S, gypsum board screws spaced 8 in. OC at the joints, located 3/8 in. from the edges, and 12 in. OC in the field. Fasteners to be spaced 8 in. OC at the runners. The outer layer to be fastened to the studs horizontally using 1 5/8 in. long, Type S, gypsum board screws spaced 8 in. OC at the joints, located 3/8 in. from the edges and 12 in. OC in the field. Fasteners to be spaced 8 in. OC at the runners. ACADIA DRYWALL SUPPLIES LTD — 5/8 Type X, Type Blueglass Exterior Sheathing

PABCO BUILDING PRODUCTS L L C. DBA PABCO GYPSUM - Types C. PG-11, PGS-WRS.

4E. Gypsum Board* — (As an alternate to Item 4A, not for use with Items 1A and 3A) - Nom. 5/8 in. thick avosum panels with beveled, square or tapered edges installed as described in Item 4A. CGC INC — Type ULX **UNITED STATES GYPSUM CO** — Type ULX

USG MEXICO S A DE C V — Type ULX

4F. Gypsum Board* — (As an alternate to 5/8 in. Type FSW in Item 4) - Nom. 5/16 in. thick gypsum panels applied vertically. Two layers of 5/16 in. for every single layer of 5/8 in. gypsum board described in Item 4. Horizontal joints on the same side need not be staggered. Inner layer of each double 5/16 in. layer attached with fasteners, as described in item 4, spaced 24 in. OC. Outer layer of each double 5/16 in. layer attached per Item 4. NATIONAL GYPSUM CO — Type FSW.

4G. Wall and Partition Facings and Accessories* — (As an alternate to Items 4 through 4E) — Nominal 5/8 in. thick. 4 ft wide panels, applied vertically and secured as described in Item 4. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.

4H. Gypsum Board* — (As alternate to Item 4) - For use with Item 6D. Batts and Blankets* for the 1 hour system. Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (2-hr system) need not to be staggered. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed with steel framing. Horizontal edge joints and horizontal butt joints in adjacent layers (2-hr system) need not be staggered. For the single layer system, panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when applied vertically. For the double layer system, base layer panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 16 in. Face layer panels attached to steel studs and floor runner with 1-5/8 in. long Type S steel screws spaced 8 in. OC. Screws offset min 6 in. from laver below. **UNITED STATES GYPSUM CO** — Type ULIX.

4I. Gypsum Board* — As an alternate to Item 4 (for 1 hour rating) — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of study need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 12 in. OC along vertical edges and in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall for both vertical and horizontal applications. NATIONAL GYPSUM CO - Types eXP-C, FSK, FSK-C, FSK-G, FSL, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSMR-C

spaced, 12 in. OC.

and screw heads. Paper tape, 2 in. wide, embedded in first laver of compound over all ioints.

BZJZ) Categories for names of Classified companies.

application instructions supplied with the product. to be used for dry application only.

pounds per cubic ft. NU-WOOL CO INC — Cellulose Insulation

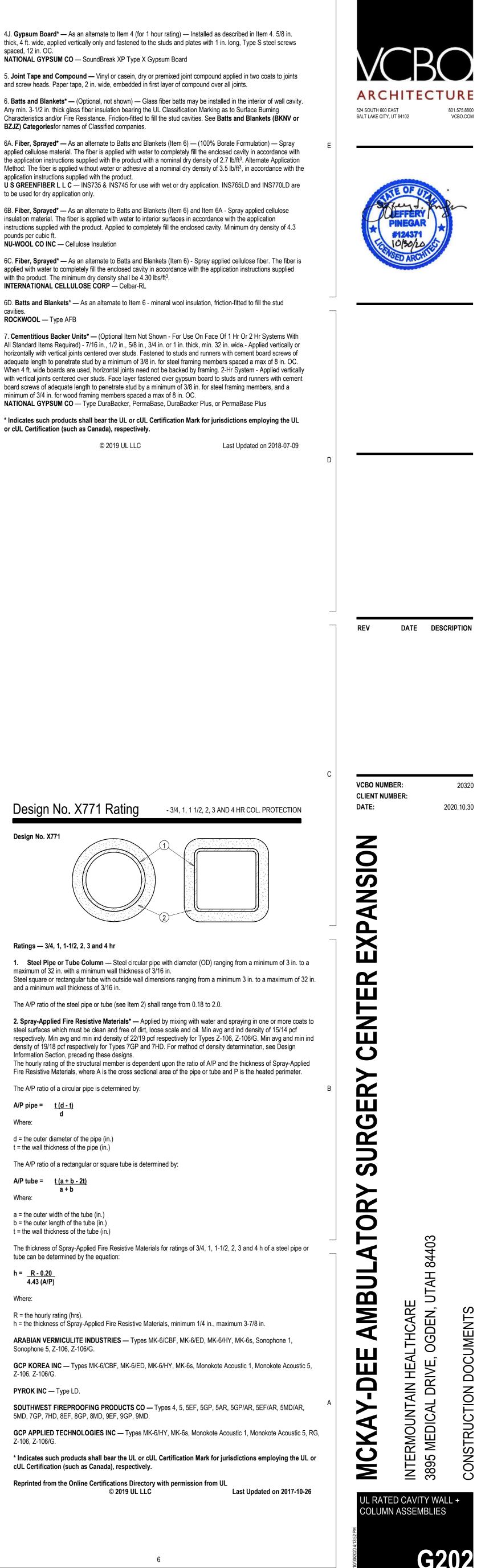
with the product. The minimum dry density shall be 4.30 lbs/ft³. **INTERNATIONAL CELLULOSE CORP** — Celbar-RL

ROCKWOOL — Type AFB

minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC.

or cUL Certification (such as Canada), respectively.

Design No. X771 Rating



maximum of 32 in. with a minimum wall thickness of 3/16 in. and a minimum wall thickness of 3/16 in

The A/P ratio of the steel pipe or tube (see Item 2) shall range from 0.18 to 2.0.

Information Section, preceding these designs.

The A/P ratio of a

A/P pipe =

Where:

d = the outer diame

b = the outer length of the tube (in t = the wall thickness of the tube (in.

tube can be determined by the equation:

Z-106, Z-106/G.

PYROK INC — Type LD.

5MD, 7GP, 7HD, 8EF, 8GP, 8MD, 9EF, 9GP, 9MD.

7-106. 7-106/G.

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circular pipe is determined by:		
<u>d - t)</u> d		
neter of the pipe (in.)		

CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

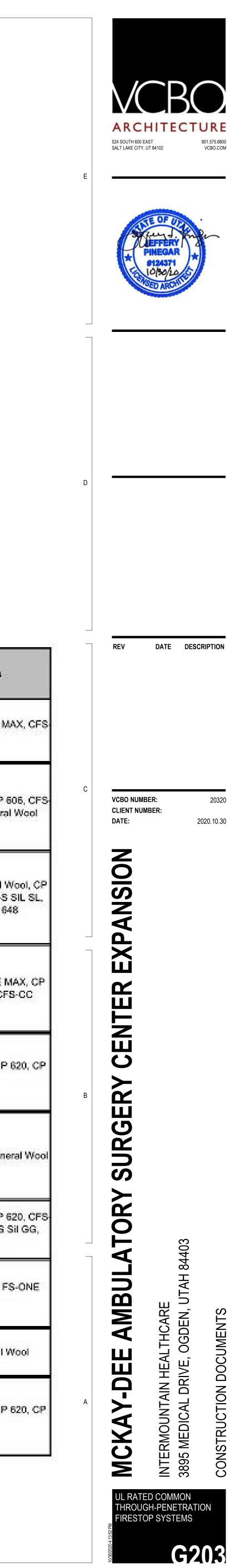
Fireston Schedule of Through Departmention Custome - Device of Devices USE Lev

TYPE OF PENETRANT	F-RATING (HR)	CONCRETE FLOORS	CONCRETE OR BLOCK WALLS	GYPSUM WALLS	WOOD FLOORS	Hilti Products	
	turs	BASIS OF DESIGN UL SYSTEM		BASIS OF DESIGN U	L SYSTEM		
	1	F-A-0006, C-AJ-0055, C-AJ-0090	C-AJ-0055, C-AJ-0090		(注)		
CIRCULAR BLANK OPENINGS	2	F-A-0006, C-AJ-0055, C-AJ-0090	C-AJ-0055, C-AJ-0090			CP 680, CP 618, FS-ONE MAX BL	
	3	F-A-0006, C-AJ-0055, C-AJ-0086, F-A-0014	C-AJ-0055, C-AJ-0086	14 (L)			
	1	C-AJ-1226, F-A-1028, F-A-1017	C-AJ-1226, W-J-1067, W-J-1020	W-L-1054, W-L-1058, W-L-1164, W-L-1506	F-C-1009, F-C-1059, F-C-1168		
ETAL PIPES OR CONDUIT	2	C-AJ-1226, F-A-1028, F-A-1017	C-AJ-1226, W-J-1067, W-J-1020, W-J-1248	W-L-1054, W-L-1058, W-L-1164, W-L-1508	F-C-1009, F-C-1059, F-C-1168	CP 680, FS-ONE MAX, CP 606	
	3	C-AJ-1226, F-A-1017	C-AJ-1226, W-J-1041, W-J-1068			S SIL GG, CFS-D, Mineral W	
	4	C-BJ -1037, C-BJ-1034	C-BJ-1034, C-BJ-1037, W-J-1041, W-J-1042, W-J-1068	W-L-1110, W-L-1111, W-L-1165			
	1	F-A-2053, F-A-2025, C-AJ-2109, C-AJ-2098, C-AJ-2271, C-AJ-2167, C-BJ-2021, C-AJ-2342	C-AJ-2109, C-AJ-2098, C-AJ-2167, C-AJ-2371, C-AJ-2342	W-L-2078, W-L-2075, W-L-2128	F-C-2232, F-C-2030, F-C-2160, F-C-2389		
NON-METALLIC PIPE OR CONDUIT (I.E. PVC, CPVC,	2	F-A 2053, F-A 2025, C-AJ-2109, C-AJ-2098, C-AJ-2271, C-AJ-2167, C-BJ-2021, C-AJ-2371, C-AJ-2342	C-AJ-2109, C-AJ-2098, C-AJ-2167, C-AJ-2371, C-AJ-2342	W-L-2078, W-L-2075, W-L-2128	F-C-2029, F-C-2030, F-C-2128, F-C-2160	CP 680, CP 643N, Mineral Woo 644, FS-ONE MAX, CFS-S SIL	
ABS, FRP, ENT)	3	F-A-2054, C-AJ-2109, C-AJ-2098, C-AJ-2371, C-AJ-2342	C-AJ-2109, C-AJ-2098, C-AJ-2371, C-AJ-2342			CFS-S SIL GG, CP 648	
	4	C-BJ-2016, C-AJ-2017	W-J-2057, W-J-2091	W-L-2184, W-L-2245			
	1	F-A-3007,C-AJ-3095,C-AJ-3180, C-AJ-3283	W-J-3036, C-AJ-3095, C-AJ-3180, W-J-3060, W-J-3167	W-L-3065, W-L-3111, W-L-3112, W-L-3334, W-L-3414, W-L-3396	F-C-3012, F-C-3110, F-C-3044		
SINGLE OR BUNDLED CABLES	2	F-A-3007,C-AJ-3095,C-AJ-3334, F-A-3060	W-J-3036, C-AJ-3095, C-AJ-3180, W-J-3060, W-J-3167, W-J-3189	W-L-3065, W-L-3111, W-L-3112, W-L-3334, W-L-3414, W-L-3396	F-C-3012, F-C-3110	CP 680, CP 653, FS-ONE MAX 618, CP 606, CFS-D, CFS-C	
	3	F-A-3007, C-AJ 3095, C-AJ-3285	C-AJ-3095, C-AJ-3180, W-J-3167		-		
	4	N/A**	W-J-3050	W-L-3139, W-L-3334			
	1	C-AJ-4034, C-AJ-4035	W-J-4027, C-AJ-4034, C-AJ-4035	W-L-4011, W-L-4019, W-L-4081			
OADLE TO AV	2	C-AJ-4034, C-AJ-4035	W-J-4027, C-AJ-4034, C-AJ-4035	W-L-4011, W-L-4019, W-L-4081	22	CFS-BL, FS-ONE MAX, CP 620 618	
CABLE TRAY	3	C-AJ-4034, C-AJ-4035	C-AJ-4034, C-AJ-4035	W-L-3385, W-L-3277			
	4	N/A**	W-J-8007	W-L 8014			
		F-A 5015, F-A 5017, C-AJ-5090, C-AJ-5091, C-AJ-5090, C-AJ-5048	C-AJ-6090, C-AJ-5091, C-AJ 5061, W-J-5042	W-L-5028, W-L-5029, W-L-5047	F-C-5004, F-C-5037, F-C-5038		
INSULATED PIPES	2	F-A 5015, F-A 5017, C-AJ-5090, C-AJ-5091, C-AJ-5090	C-AJ-5090, C-AJ-5091, C-AJ-5061, W-J-5042	W-L-5028, W-L-5029, W-L-5047	F-C-5004, F-C-5037	CP 680, FS-ONE MAX, Mineral	
	3	F-A 5016, C-AJ-5090, F-A-5018	C-AJ-5090, C-AJ-5061				
	4	C-BJ-5006	C-BJ-5006, W-J-5028	W-L-5073			
	(1	C-AJ-6008, C-AJ-6017, F-A-6002, C-AJ-6038	C-AJ-6006, C-AJ-6017, C-AJ-6036			CP 637, FS-ONE MAX, CP 620	
ELECTRICAL BUSWAY	2	C-AJ-6006, C-AJ-6017, F-A 6042, C-AJ-6036	C-AJ-6006, C-AJ-6017, C-AJ-6036			BL, Mineral Wool, CFS-S Sil	
	3	C-AJ-6006, C-AJ-6017	C-AJ-6006, C-AJ-6017			CFS-S SIL SL	
MECHANICAL DUCTWORK	1	C-AJ-7046, C-AJ-7051, C-AJ-7084	C-AJ-7046, C-AJ-7051, W-J-7021, W-J-7022	W-L-7017, W-L-7040, W-L-7042, W-L-7155	F-C-7013		
WITHOUT DAMPERS	2	C-AJ-7046, C-AJ-7051, C-AJ-7085	C-AJ-7046, C-AJ-7051, W-J-7021, W-J-7022	W-L-7040, W-L-7042, W-L-7155		CFS-S SIL GG, CP 606, FS-C MAX	
(NON-INSULATED)	3	C-AJ-7046, C-AJ-7051	C-AJ-7046, C-AJ-7051				
MECHANICAL DUCTWORK	1	N/A**	W-J-7029, W-J-7124	W-L-7059, W-L-7153, W-L-7156, W-L-7151	N/A**		
WITHOUT DAMPERS (INSULATED)	2	N/A**	W-J-7091, W-J-7112, W-J-7124	W-L-7059, W-L-7153, W-L-7156, W-L-7151	N/A**	FS-ONE MAX, Mineral Wo	
	1	C-AJ-8099, C-AJ-8056, C-AJ-8143	C-AJ-8099, C-AJ-8056, W-J-8007, C-AJ-8143	W-L-1095, W-L-8013	F-C-8009, F-C-8014, F-C-8026		
MIVED DENETRANTS	2	C-AJ-8099, C-AJ-8056, C-AJ-8143, C-AJ-8252	C-AJ 8099, C-AJ-8058, W-J-8007, C-AJ-8143, C-AJ-8252	W-L-1095, W-L-8013		FS-ONE MAX, CFS-BL, CP 62	
MIXED PENETRANTS	3	C-AJ-8099, C-AJ-8056	C-AJ-8041, C-AJ-8056, W-J-8007, C-AJ-8099			618	
	4	C-AJ-8095	C-AJ-8095, W-J-8007	W-L-8014			

Sys	tems.	Basis	of I	Desig	in: F	lilti, 1	nc.
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1. Jobsite conditions of each through-penetration firestop system must meet ALL details of the UL-Classified System selected.

If jobsite conditions do not match any UL-classified systems in the schedules above, contact Hilti for alternative systems or Engineer Judgment Drawings - 800-879-8000
 Where more than one applicable UL-Classified System is listed in the schedules, choose the UL System which is most economical for each. through-penetration firestop system.
 Coordinate work with other trades to assure that penetration opening sizes are appropriate for penetrant locations, and vice versa.

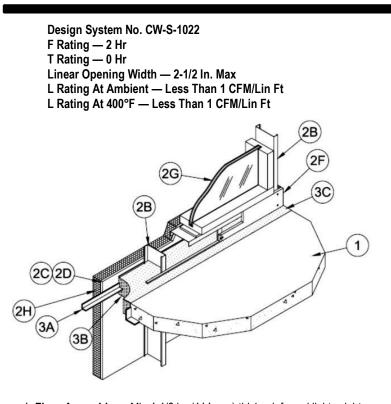


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UL DESIGN No. CW-S-1022



1. Floor Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) structural concrete. Perimeter of floor assembly to be provided with min 3 by 3 by 1/4 in. (76 by 76 by 6 mm) thick cast-in-place structural steel angle for weld-attachment of mounting angles (Item 2A).

2. Curtain Wall Assembly — The curtain wall assembly shall incorporate the following construction features:

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A. Mounting Angles — (Not Shown) — Nom 3 in. (76 mm) long angles with one nom 3 in. (76 mm) leg for attachment to edge of floor assembly and with one leg approx 2-1/2 to 3 in. (64 to 76 mm) longer than distance to interior face of steel studs. Angles to be formed of min 1/8 in. (3.2 mm) thick steel. Angles welded to cast-in-place structural steel angle at edge of floor assembly (Item 1) on one side of each steel stud (Item 2B) at each floor level. Top edge of each mounting angle to be recessed 1/2 to 1 in. (13 to 25 mm) below top surface of floor.

B. Steel Studs — C-shaped studs formed from min 0.059 in. (1.5 mm) thick galv steel. The steel studs shall be min 6 in. (152 mm) wide by 1-1/4 in. (31 mm) deep with 5/16 in. (8 mm) wide stiffening flanges and shall be assembled using runner channels formed from min 0.059 in. (1.5 mm) thick galv steel. Studs spaced max 16 in. (406 mm) OC and welded, bolted or screwed to mounting angles (Item 2A) at each floor level. Interior face of studs to be max 2-1/2 in. (64 mm) from edge of floor assembly. Studs reinforced by means of nom 1-1/2 in. (38 mm) wide by 9/16 in. (14 mm) deep min 0.059 in. (1.5 mm) thick cold rolled steel channels inserted through steel stud keyways on max 48 in. (1.2 m) centers and welded to steel studs.

B1. King Studs — (Optional, Not Shown) - Where required, king studs may be substituted for Item 2B. King studs to consist of two min 6 in. (152 mm) wide by 1-1/4 in. (31 mm) deep C-shaped studs formed from min 0.059 in. (1.5 mm) thick galv steel secured together by welds. See Item 3C.

C. Gypsum Board* — One layer of nom 5/8 in. (16 mm) thick, 48 in. (1.2 m) wide gypsum sheathing installed to cover entire exterior surface of wall. Sheathing applied with joints centered over studs and secured to steel studs with min 1 in. (25 mm) long bugle head steel screws spaced max 8 in. (204 mm) OC along the edges and max 12 in. (305 mm) OC in the field of each sheet.

See Gypsum Board (CKNX) category for names of Classified Companies and product types.

D. Cementitious Backer Units* — As an alternate to the gypsum sheathing (Item 2C), nom 1/2 in. or 5/8 in. (13 or 16 mm) thick square-edge boards attached to studs with 1-1/4 in. (31 mm) long corrosion resistant self-tapping wafer-head steel screws spaced 6 in. (152 mm) OC. Joints covered with glass fiber mesh tape. UNITED STATES GYPSUM CO — Type DCB

E. Batts and Blankets* — (Optional, Not Shown) - Any glass fiber insulation bearing the UL Classification Marking as to fire resistance or surface burning characteristics, of a width and thickness to completely fill stud cavity. Insulation batts friction fit to completely fill all stud cavities of curtain wall above the top of the fill material (Item B) and below the forming material (Item 3A).

See Batts and Blankets (BZJZ) category for names of manufacturers.

E1. Batts and Blankets* — (Optional, Not Shown) - As an alternate to Item 2E, insulation batts friction fit to completely fill all stud cavities of curtain wall above the top of the fill material (Item 3B) and below the forming material (Item 3A). THERMAFIBER INC — FIRESPAN 40 or FIRESPAN 90 ROCKWOOL MALAYSIA SDN BHD — Type AFB

ROCKWOOL — Type AFB

F. Gypsum Board* — One layer of nom 5/8 in. (16 mm) thick, 48 in. (1.2 m) wide gypsum board applied with joints centered over studs. Gypsum board secured to steel studs on interior surface of curtain wall with min 1 in. (25 mm) long bugle head steel screws spaced max 8 in. (204 mm) OC along the edges and max 12 in. (305 mm) OC in the field of each sheet. Gypsum board installed to cover interior surface of wall above the top of the fill material (Item 3C) for a min distance of 6 in. (152 mm). Gypsum board is optional below floor assembly.

See Gypsum Board (CKNX) category for names of Classified Companies and product types.

G. Framed Window — Metal-framed window with nom 1 in. (25 mm) thick (double pane) transparent heatstrengthened or tempered glass panels. Sill of window to be min 6 in. (152 mm) above top of floor slab. Vertical separation between window punch-outs to be min 36 in. (914 mm). Top of window to be min 22-1/2 in. (572 mm) below bottom of floor slab. H. Exterior Insulation and Finish System (EIFS) — Nom 2 in. (51 mm) thick extruded polystyrene Foamed Plastic* insulation bearing the UL Classification Marking, attached over sheathing and finished with coating system, or Portland cement or synthetic stucco systems, in accordance with manufacturer's instructions.

See Foamed Plastic (BRYX or CCVW) category for names of Classified companies.

I. Siding, Brick or Stucco - (Not Shown) - Aluminum siding, steel siding, brick veneer or stucco installed over gypsum sheathing or cementitious backer units and meeting the requirements of local code agencies. Brick veneer wall attached to studs with corrugated metal wall ties attached to each stud with steel screws.

J. Glass Fiber Reinforced Concrete (GFRC) Panels — (Not Shown) - Min 1/2 in. (13 mm) thick glass fiber reinforced concrete (GFRC) panels installed over gypsum sheathing or cementitious backer units and meeting the requirements of local code agencies.

3. Safing System — The safing system shall incorporate the following construction features:

ROCKWOOL — Safe

A. Steel Support Angle — Nom 1-1/2 by 1-1/2 in. (38 by 38 mm) steel angle formed from min 0.031 in. (0.79 mm) thick galv steel. Support angle to be installed laterally between steel studs (Item 2B) directly against the gypsum sheathing (Item 2C or 2D). Nom 1-1/2 by 1-1/2 in. by 1-1/2 in. (38 by 38 by 38 mm) support legs attached to steel stud by means of two No. 10 steel screws. Steel support angle fastened to support leg by means of two No. 10 steel screws. As an option, the support angle may be notched to install against the flat side of the stud prior to installation of gypsum sheathing (Item 2C or 2D) and secured by means of two No. 10 steel screws.

B. Forming Material* — Nom 4 pcf (64 kg/m³) density mineral wool batt insulation supplied in min 2-1/2 in. (64 mm) thickness. Batt sections to be cut to a min width of 4 in. (102 mm) and stacked to a thickness which is min 25 percent greater than the width of the linear gap between the gypsum sheathing and the edge of the concrete floor to attain a min 20 percent compression in the thickness direction when installed. The forming material is compressed and inserted cut-edge-first into linear gap between edge of floor slab and sheathing material such that its top surface is flush with the top surface of the floor assembly. Length of batt to be equal to on-center spacing of steel studs such that it is friction-fitted between studs and mounting angles without seams. Additional pieces of mineral wool batt to be stuffed inside the channel of each steel stud throughout the thickness of the forming material. Batt sections installed between vertical studs shall be slit at the mid-height to accommodate the horizontal leg of the steel support angle (Item 3A). THERMAFIBER INC - SAF ROCKWOOL MALAYSIA SDN BHD — Safe

C. Fill, Void or Cavity Material* - Spray — Min 1/8 in. (3.2 mm) wet thickness (min 1/16 in. or 1.6 mm dry thickness) of fill material spray-applied over top of forming material and lapping min 1/2 in. (13 mm) onto the top surface of the floor and onto the gypsum sheathing and steel studs. When SpecSeal Fast Tack Spray is used, wet and dry thickness of spray is min 5/64 in. (2 mm). SPECIFIED TECHNOLOGIES INC — SpecSeal AS200 Elastomeric Spray, SpecSeal Safing Spray or SpecSeal Fast Tack Spray

D. Fill, Void or Cavity Material* - Pillows - (Not Shown) - Where king studs (Item 2B1) are located, channel within stud to be sealed with pillows. Max 9 in. long by 6 in. wide by 3 in. thick plastic covered intumescent pillows compressed and tightly packed into channel at each floor line. SPECIFIED TECHNOLOGIES INC — SpecSeal Firestop Pillows

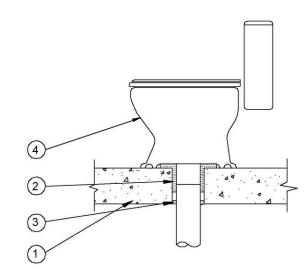
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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UL DESIGN No. No. F-A-2136

Design System No. F-A-2136 F Rating — 2 Hr T Rating — 2 Hr



1. Floor Assembly — Min 4-1/2 in. (114 mm) thick lightweight or normal weight concrete (100-150 pcf (1600-2400 kg/cu meter)). Max diam of opening is 6 in. (152 mm).

concentrically or eccentrically within the firestop system. The annular space between drain pipe and periphery of opening shall be min 0 in. (point contact) to max 1-1/2 in. (38 mm). Pipe to be rigidly supported on lower side of floor assembly. The following types and sizes of nonmetallic pipes, fittings and flanges may be used:

cellular core PVC pipe for use in vented (drain, waste or vent) piping system. B. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40

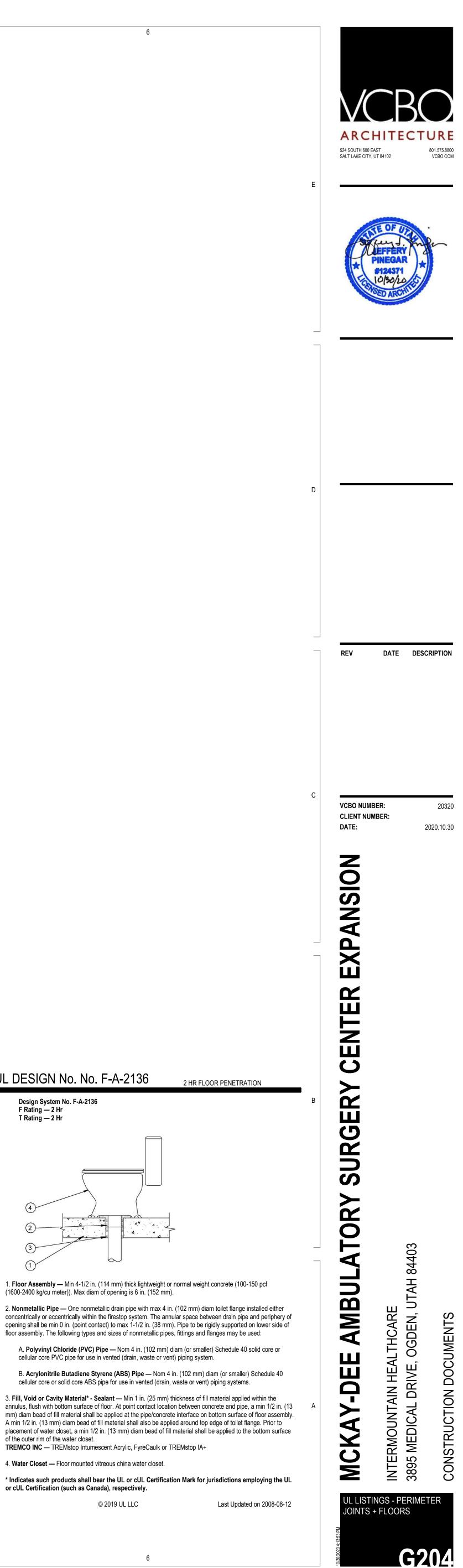
cellular core or solid core ABS pipe for use in vented (drain, waste or vent) piping systems.

3. Fill, Void or Cavity Material* - Sealant — Min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with bottom surface of floor. At point contact location between concrete and pipe, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe/concrete interface on bottom surface of floor assembly. A min 1/2 in. (13 mm) diam bead of fill material shall also be applied around top edge of toilet flange. Prior to placement of water closet, a min 1/2 in. (13 mm) diam bead of fill material shall be applied to the bottom surface of the outer rim of the water closet. TREMCO INC — TREMstop Intumescent Acrylic, FyreCaulk or TREMstop IA+

4. Water Closet — Floor mounted vitreous china water closet.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

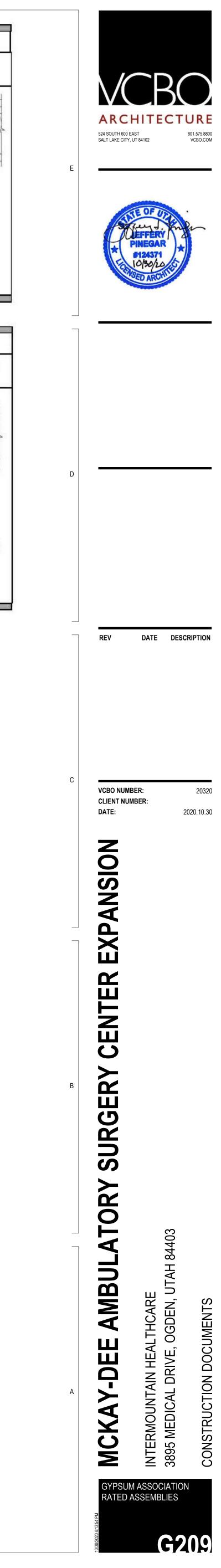
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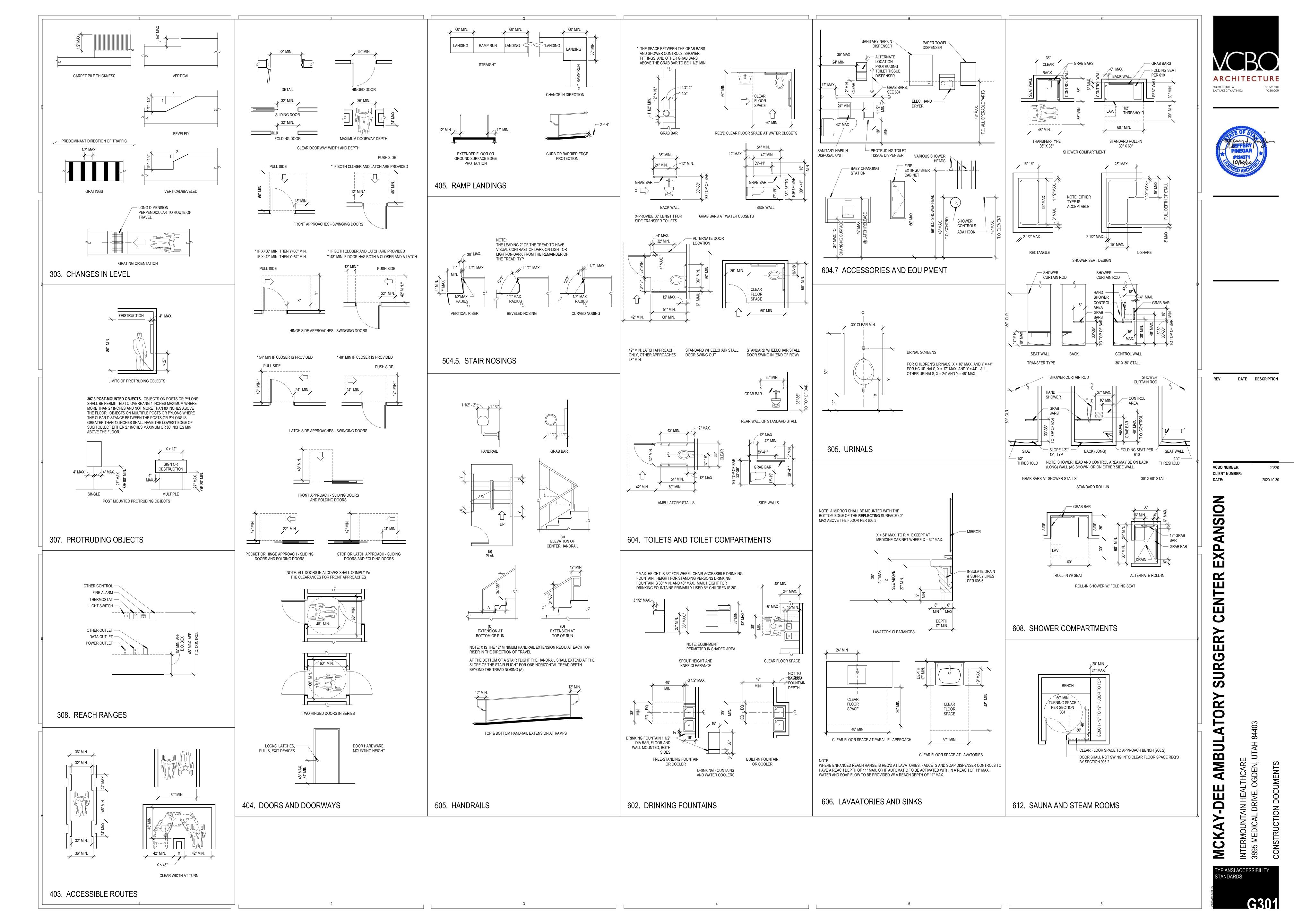


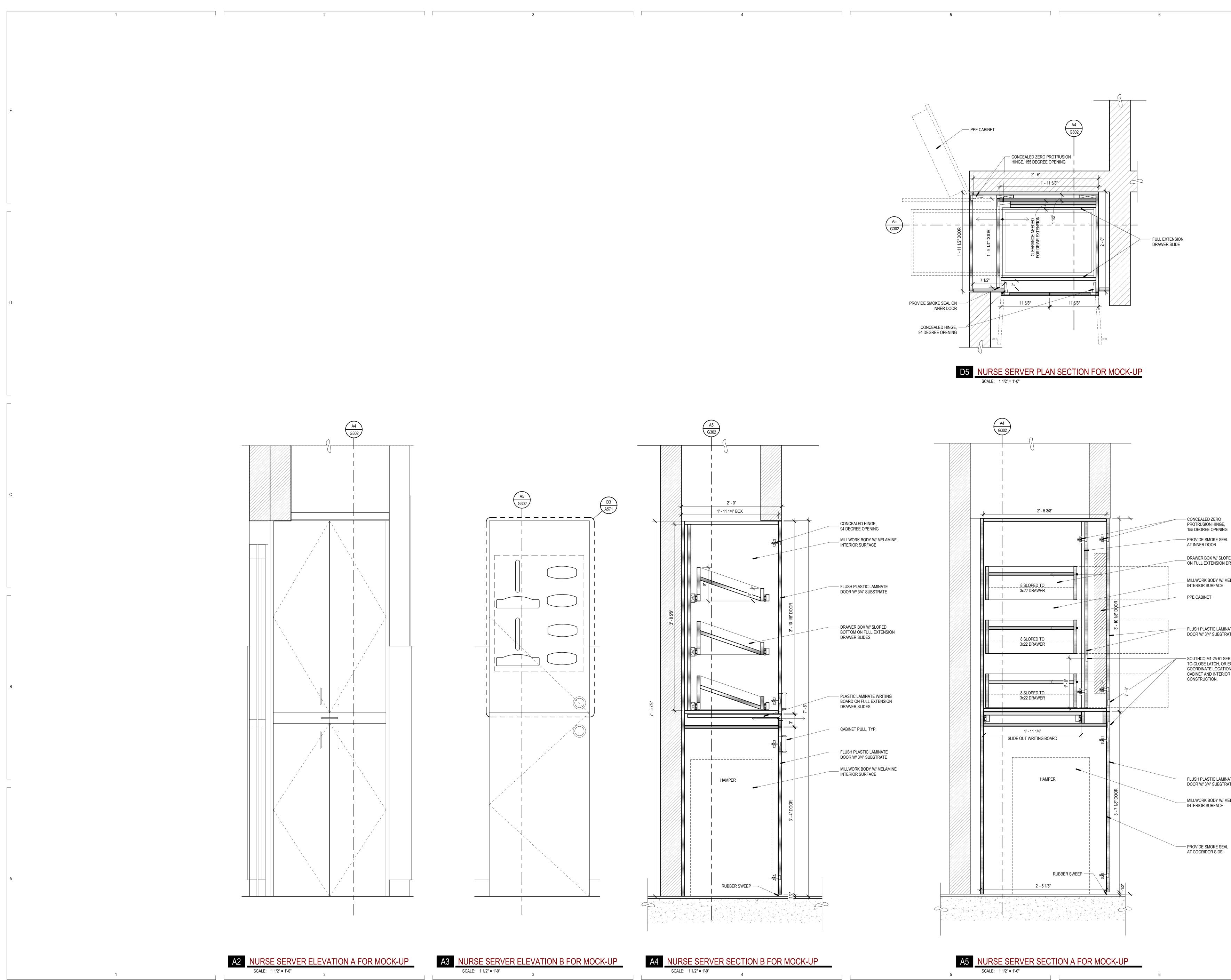
WALLS AND	INTERIOR PARTITIONS, NO	NCOMBUSTI	BLE
GA FILE NO. WP 1052	GENERIC	1 HOUR FIRE	50 to 54 S SOUND
GYPSUM WALLBO	ARD, STEEL STUDS		
Fire Design:			mmm
8" o.c. at vertical joints and 12" o.c. at wa	steel studs 24" o.c. with 1" Type S screws all perimeter and intermediate studs. Face ypsum veneer base applied parallel or at		
Joints staggered 24" each layer and side. (NI	LB)	Thickness: Approx. Weight:	- Sold and the second s Second second s Second second s Second second s Second second se
Sound Design:		Fire Test:	See WP 1350
Sound tested with 3-1/2" glass fiber friction fit	t in stud space.		(FM WP-45, 6-19-68; OSU T-1770, 8-61; ULC 79T484, 79T500,
* Contact the manufacturer for more of	detailed information on proprietary products.		79T497, 8-21-81, ULC Design W415)
		Sound Test:	RAL-TL11-075, 3-23-1

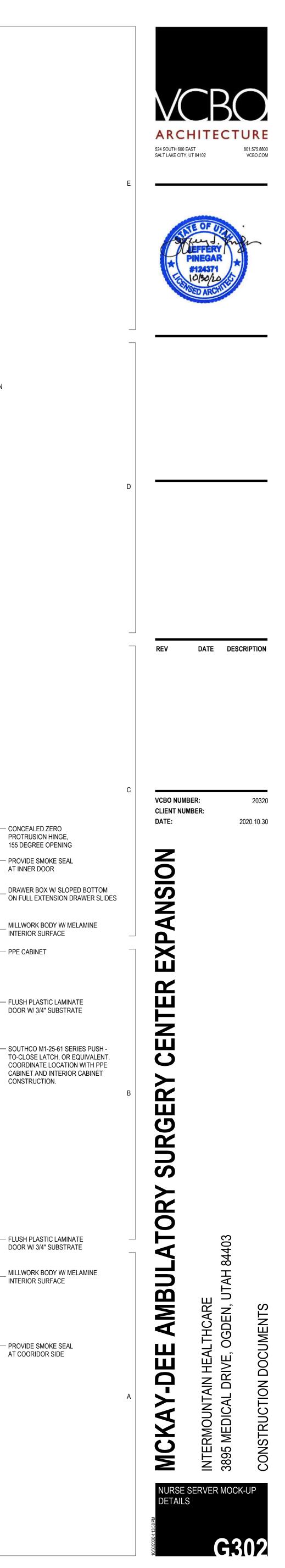
WALLS AN	ID INTERIOR PARTITIONS, NO	NCOMBUST	IBLE
GA FILE NO. WP 1072	GENERIC	1 HOUR FIRE	45 to 49 STC SOUND
GYPSUM WALLB	DARD, STEEL STUDS		
One layer 5/8" type X gypsum wallboard right angles to each side of 3-5/8", 18	or gypsum veneer base applied parallel or at mil steel studs 24" o.c. with 1" Type S screws at floor and ceiling runners and intermediate		
Joints staggered 24" on each side and on	OPPOSITE SIDES. (NLB)		
Sound Design: Sound tested with 3-1/2" glass fiber friction	n fit in stud space.	Thickness: Approx. Weight: Fire Test:	4-7/8" (Fire and Sound) 6 psf (Fire and Sound) See WP 1350 (FM WP-45, 6-19-68;
* Contact the manufacturer for mor	e detailed information on proprietary products.	Sound Test:	OSU T-1770, 8-61; ULC 79T484, 9T500,79T497, 8-12-81, ULC Design W415) RAL TL11-074, 3-23-11
www.gypsum.org	©2018 by the Gypsum Association	oounu rest.	TAL 1211-014, 3-20-11

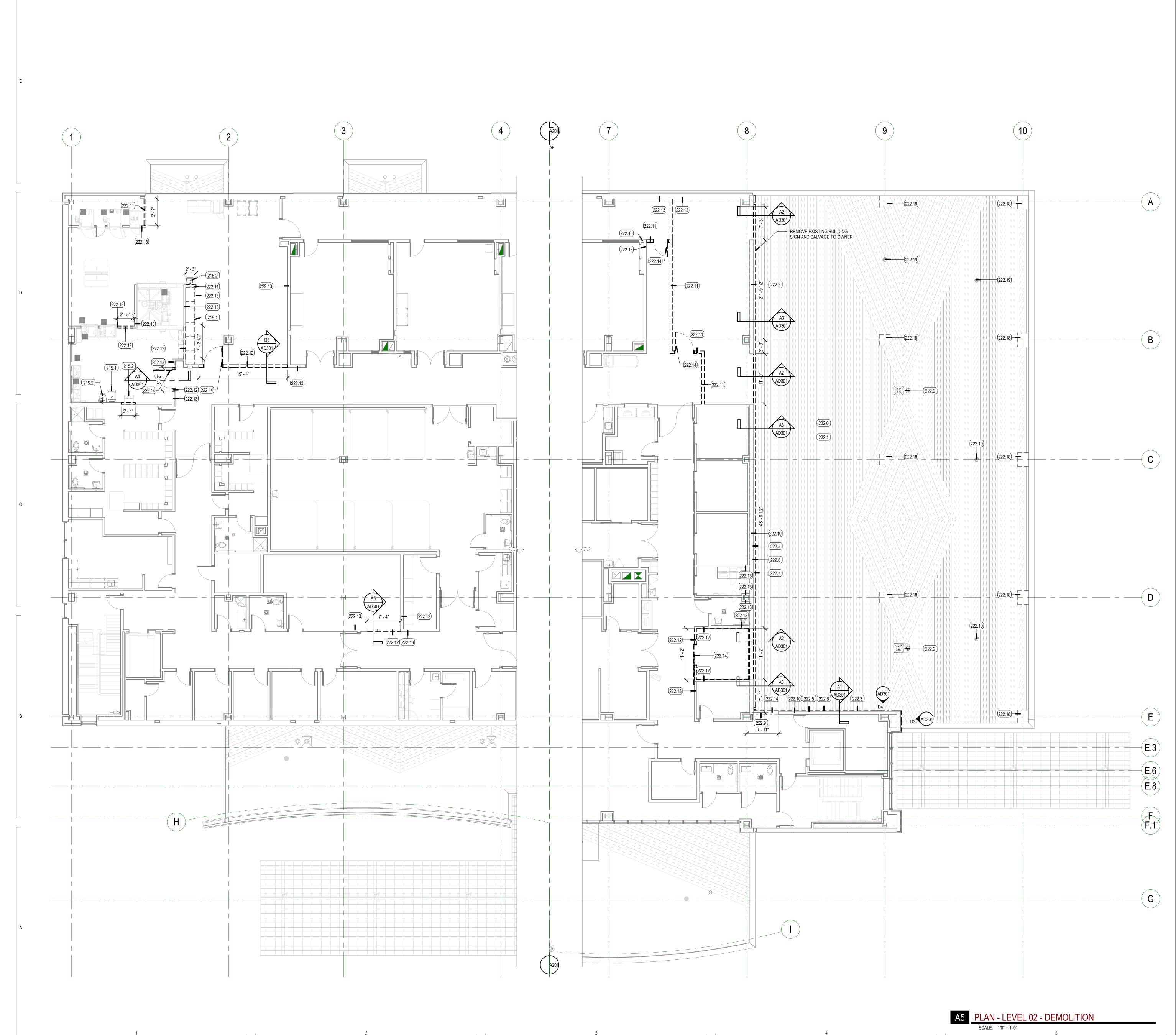
GA FILE NO. SRS 7206	GENERIC	2 HOUR FIRE	
STEEL RUNNER (TRACK), STEEL S	TUDS, FLEXIBLE SEALANT		
Fire Design:		······································	2 · · · · · ·
Steel floor and ceiling runners attached to steel I cut 1/2" to 3/4" short and positioned into flo applied to the wall as specified in the listing rated system with a maximum gap of 5/8" be and bottom spray-applied fire-resistive mate barrier sealant. The first row of screws in eac less than 1" below the edge of the drywall track	or and ceiling runners. Gypsum board for the one or two-hour fire-resistance tween the top edge of gypsum boards rial and filled with smoke and sound ch layer of gypsum panel is located not k applied to the ceiling.		2
The perimeter relief system is intended for use NLB fire-resistance rated steel stud wall syste be constructed of the materials and in the ma Number.	m in this Manual. The wall system shall		
* Contact the manufacturer for more d	etailed information on proprietary products	Eiro Toot: LIL D11922 10/	A41771 0-2-10-
Contact the manadataren for more a	etanea mermateri en proprietary producto	Fire Test: UL R11822, 100	5441771, 5-2-10,











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GENERAL DEMOLITION NOTES

- 1. FIELD VERIFY DIMENSIONS AND CONDITIONS INCLUDING EXISTING UTILITIES PRIOR TO BIDDING. BRING DIFFERING DIMENSIONS AND CONDITIONS TO ARCHITECT'S ATTENTION PRIOR TO BIDDING.
- 2. A HAZARDOUS MATERIAL SURVEY IS AVAILABLE FROM THE OWNER. ABATEMENT MUST BE COMPLETED PRIOR TO DEMOLITION OF BUILDINGS OR BUILDING ELEMENTS.
- 3. PROVIDE DUSTPROOF ENCLOSURES AT PERIMETER OF CONSTRUCTION & DEMOLITION FOR PROTECTION OF ADJACENT SPACES.
- 4. COORDINATE MAINTENANCE OF FIRE EGRESS FOR OCCUPANTS IN EXISTING BUILDING WITH THE OWNER AND FIRE MARSHAL. PROVIDE NECESSARY TEMPORARY WALLS OR ENCLOSURES, EMERGENCY LIGHTS, ETC., FOR THE DURATION OF CONSTRUCTION.
- 5. BRING TO ARCHITECT'S ATTENTION EXISTING CONDITIONS THAT PRESENT ANY CODE VIOLATIONS, INCORRECT CONSTRUCTION OR SAFETY PROBLEMS.
- 6. MAINTAIN EXISTING FIRE RATINGS, AND ASSOCIATED FIRE PROTECTION SYSTEMS (I.E. FIRE SPRINKLERS AND FIRE ALARM SYSTEMS) THROUGHOUT CONSTRUCTION. COORDINATE ANY INTERRUPTION TO THESE SYSTEMS WITH THE OWNER AND FIRE MARSHAL. PROVIDE FIRE WATCH REQUIREMENTS ASSOCIATED WITH INTERRUPTIONS TO THESE SYSTEMS.
- 7. PROTECT EXISTING STRUCTURE, FINISHES, AND SITE ELEMENTS NOT SCHEDULED FOR DEMOLITION. RESTORE DAMAGED ITEMS TO THEIR ORIGINAL CONDITION OR REPLACE AT CONTRACTOR'S EXPENSE.
- 8. REMOVE BUILDINGS TO BE DEMOLISHED IN THEIR ENTIRETY, INCLUDING CONCRETE FOOTINGS AND FOUNDATIONS. DISPOSE PER CITY REQUIREMENTS.
- 9. REMOVE AND DISPOSE SELECTIVE DEMOLITION MATERIAL PER CITY REQUIREMENTS.
- 10. SALVAGE MATERIAL WHERE INDICATED. REMOVE ITEMS FROM CURRENT LOCATIONS & PREPARE FOR TRANSPORT BY THE OWNER.

GENERAL PLAN DEMOLITION NOTES

- 1. REFER TO ELECTRICAL AND MECHANICAL PLANS FOR REQUIRED ADDITIONAL DEMOLITION
- 2. MAINTAIN EXISTING FIRE RATINGS THROUGHOUT CONSTRUCTION
- 3. DO NOT DISTURB EXISTING FIRE RATED ELEMENTS INCLUDING FIREPROOFING. PATCH/REPAIR DAMAGED OR DISTURBED ITEMS.
- 4. AFTER DEMOLITION, PRIOR TO FINISH, PATCH AND REPAIR EXISTING WALLS TO PROVIDE SMOOTH SURFACE SUITABLE FOR PAINTING OR WALL COVERING.
- 5. PATCH & LEVEL EXISTING CONCRETE SLABS FOR NEW FINISHES WITH FLOOR LEVELING
- COMPOUND. 6. FIELD VERIFY AND COORDINATE SAW CUTTING OF THE CONCRETE FLOOR SLAB WITH PLUMBING AND ELECTRICAL.
- 7. REPLACE SLAB AND TRENCH BY COMPACTING CLEAN GRAVEL IN 8 INCH LIFTS. DRILL #4 EPOXY-COATED REBAR INTO EXISTING SLAB @ 12 INCHES OC. POUR SLAB TO PROVIDE A SMOOTH EVEN FLOOR.
- 8. WHERE ELECTRICAL CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED, MAKE NECESSARY MODIFICATIONS TO MAINTAIN CIRCUIT INTEGRITY.
- 9. REMOVE ELECTRICAL BOXES BEHIND RELOCATED MILLWORK AND CAP AS REQUIRED.
- 10. CAP EXISTING DUCT WORK FOR DUST CONTROL.

DEMOLITION LEGEND

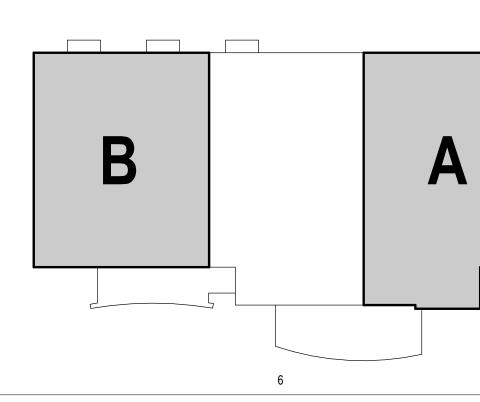


HALF-TONE LINE DENOTES ITEMS TO REMAIN DASHED LINE DENOTES ITEMS TO BE DEMOLISHED AREA TO REMAIN UNDISTURBED DURING CONSTRUCTION

KEYED NOTES

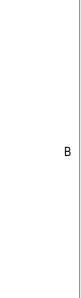
215.1	EXISTING PLUMBING, REMOVE IN ITE ENTIRETY
215.2	EXISTING PLUMBING, REMOVE AND RELOCATE
219.1	EXISTING MILLWORK, REMOVE IN ITS ENTIRETY
222.0	EXISTING ROOFING, REMOVE IN ITS ENTIRETY
222.1	EXISTING ROOFING INSULATION, REMOVE IN ITS ENTIRETY
222.2	EXISITNG ROOF DRAIN, SEE MECHANICAL DEMOLITION PLAN
222.3	EXISTING EXTERIOR MEATL PANEL, REMOVE AS INDICATED
222.5	EXISTING EXTERIOR SHEATHING, REMOVE AS INDICATED
222.6	EXISTING EXTERIOR RIGID INSULATION, REMOVE AS INDICATED
222.7	EXISTING EXTERIOR BRICK VENEER, REMOVE AS INDICATED
222.9	EXISITNG EXTERIOR METAL STUDS, REMOVE AS INDICATED
222.10	EXISTING EXTERIOR METAL STUDS, PROTECT AS NECESSARY, REPAIR
222.11	EXISTING INTERIOR METAL STUD WALL, REMOVE IN ITS ENTIRETY
222.12	EXISTING INTERIOR METAL STUD WALL, REMOVE AS INDICATED
222.13	EXISTING INTERIOR METAL STUD WALL, PROTECT AS NECESSARY, RE
222.14	EXISTING DOOR AND FRAME, REMOVE IN ITS ENTIRETY
222.16	EXISITNG SUSPENDED GYPSUM BOARD CEILING, REMOVE AS INDICAT
222.18	EXISTING ROOF COLUMN COVER, REMOVE IN ITS ENTIRETY
222.19	EXISTING ROOF ANCHOR, REMOVE IN ITS ENTIRETY

KEY PLAN



AIR AS REQUIRED

REPAIR AS REQUIRED











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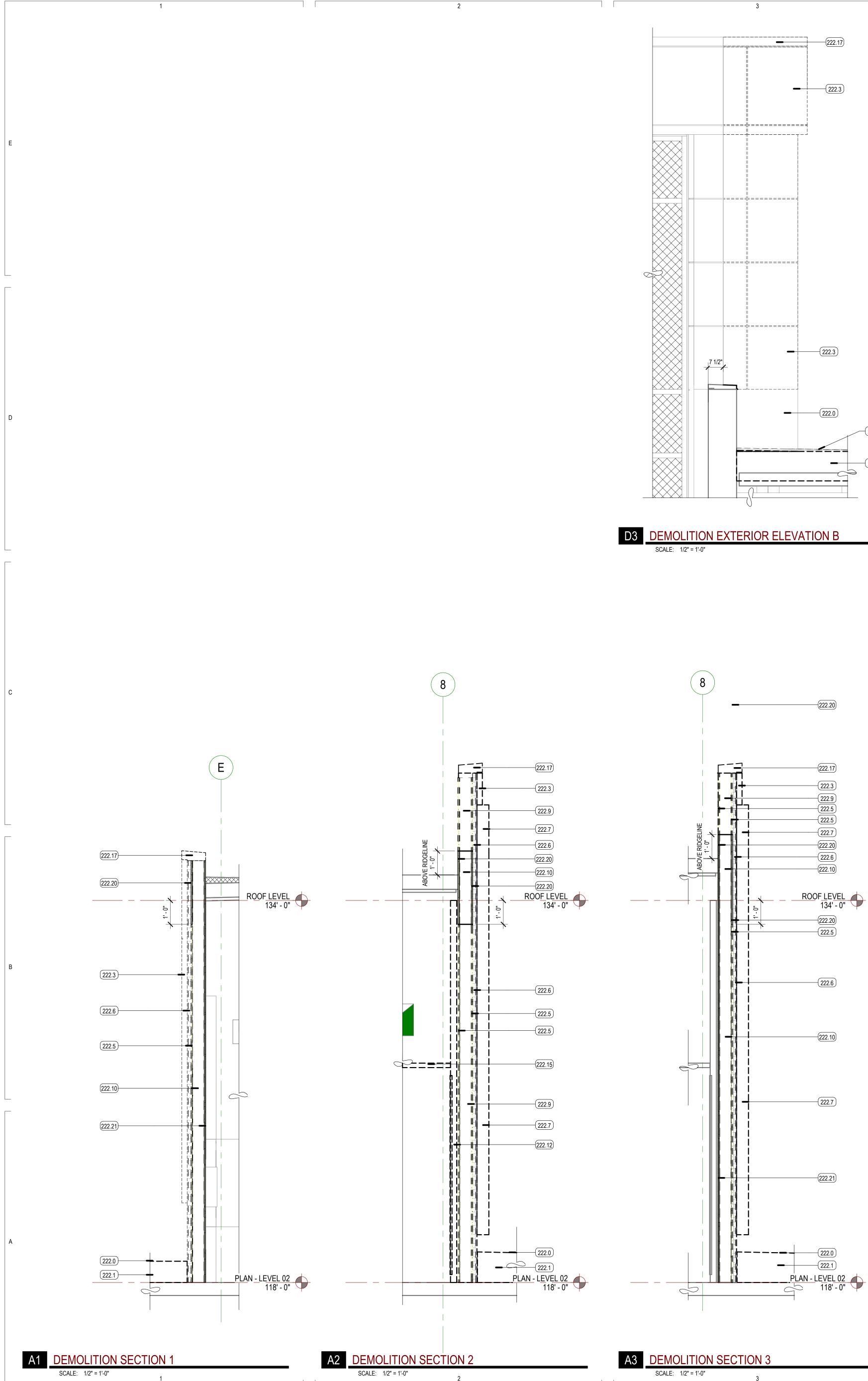
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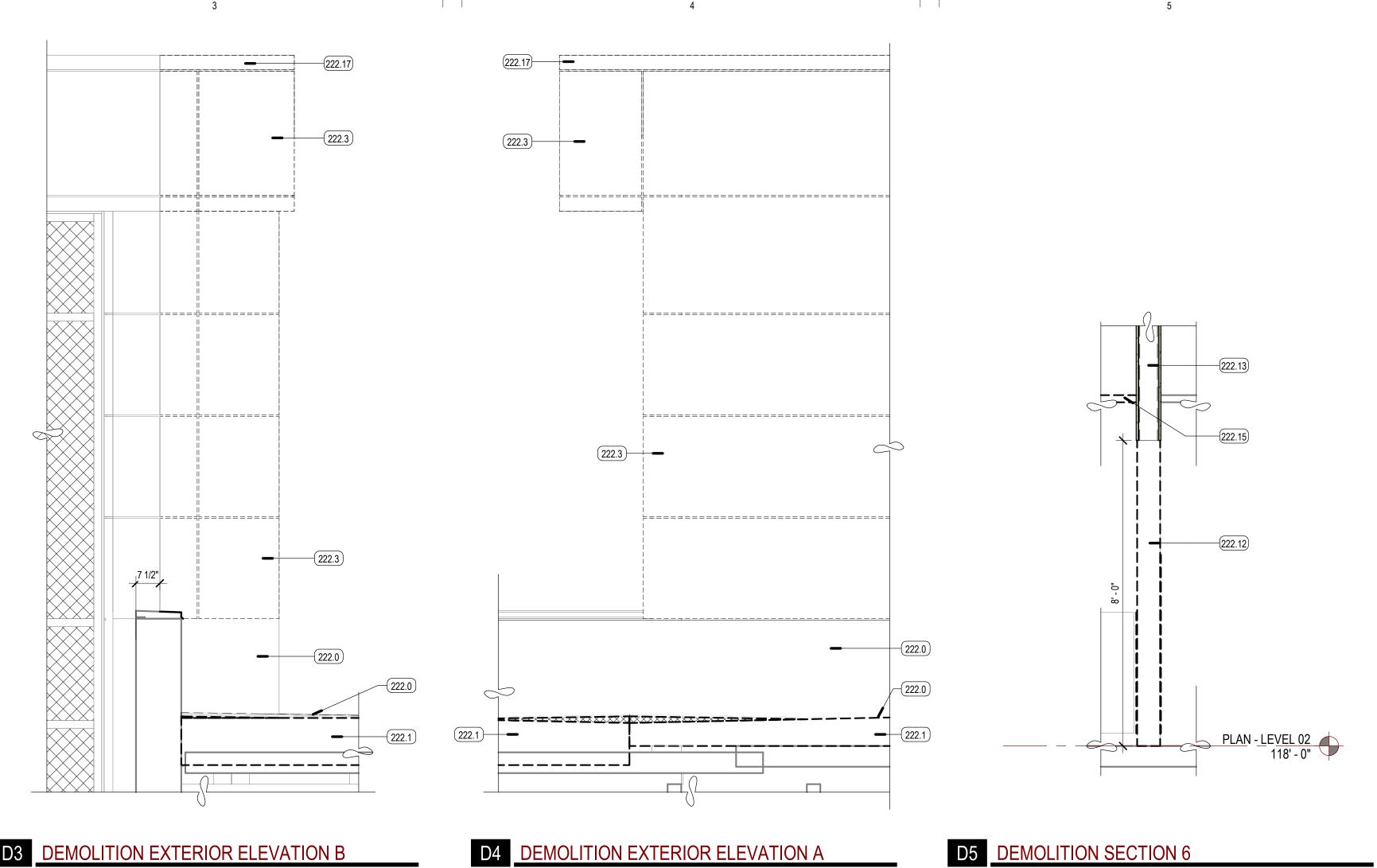
DEMOLITION PLAN - LEVEL

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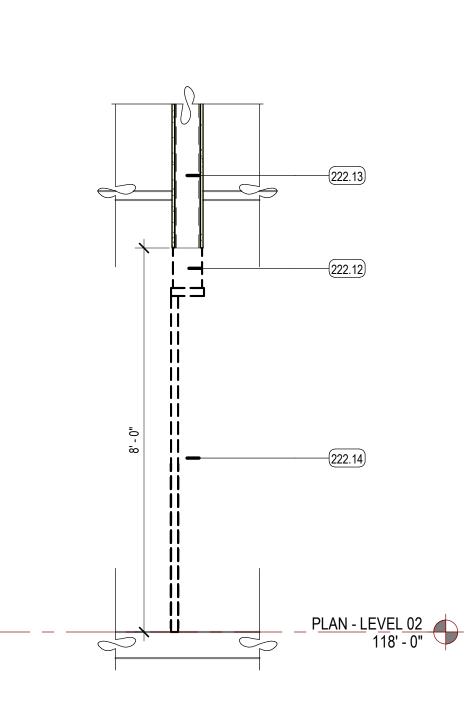
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SCALE: 1/2" = 1'-0"



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A4 DEMOLITION SECTION 4 SCALE: 1/2" = 1'-0"

GENERAL DEMOLITION NOTES

- 1. FIELD VERIFY DIMENSIONS AND CONDITIONS INCLUDING EXISTING UTILITIES PRIOR TO BIDDING. BRING DIFFERING DIMENSIONS AND CONDITIONS TO ARCHITECT'S ATTENTION PRIOR TO BIDDING.
- 2. A HAZARDOUS MATERIAL SURVEY IS AVAILABLE FROM THE OWNER. ABATEMENT MUST BE COMPLETED PRIOR TO DEMOLITION OF BUILDINGS OR BUILDING ELEMENTS.
- 3. PROVIDE DUSTPROOF ENCLOSURES AT PERIMETER OF CONSTRUCTION & DEMOLITION FOR PROTECTION OF ADJACENT SPACES.
- 4. COORDINATE MAINTENANCE OF FIRE EGRESS FOR OCCUPANTS IN EXISTING BUILDING WITH THE OWNER AND FIRE MARSHAL. PROVIDE NECESSARY TEMPORARY WALLS OR ENCLOSURES, EMERGENCY LIGHTS, ETC., FOR THE DURATION OF CONSTRUCTION.
- 5. BRING TO ARCHITECT'S ATTENTION EXISTING CONDITIONS THAT PRESENT ANY CODE VIOLATIONS, INCORRECT CONSTRUCTION OR SAFETY PROBLEMS.
- 6. MAINTAIN EXISTING FIRE RATINGS, AND ASSOCIATED FIRE PROTECTION SYSTEMS (I.E. FIRE SPRINKLERS AND FIRE ALARM SYSTEMS) THROUGHOUT CONSTRUCTION. COORDINATE ANY INTERRUPTION TO THESE SYSTEMS WITH THE OWNER AND FIRE MARSHAL. PROVIDE FIRE WATCH REQUIREMENTS ASSOCIATED WITH INTERRUPTIONS TO THESE SYSTEMS.
- 7. PROTECT EXISTING STRUCTURE, FINISHES, AND SITE ELEMENTS NOT SCHEDULED FOR DEMOLITION. RESTORE DAMAGED ITEMS TO THEIR ORIGINAL CONDITION OR REPLACE AT CONTRACTOR'S EXPENSE.
- 8. REMOVE BUILDINGS TO BE DEMOLISHED IN THEIR ENTIRETY, INCLUDING CONCRETE FOOTINGS AND FOUNDATIONS. DISPOSE PER CITY REQUIREMENTS.
- 9. REMOVE AND DISPOSE SELECTIVE DEMOLITION MATERIAL PER CITY REQUIREMENTS.
- 10. SALVAGE MATERIAL WHERE INDICATED. REMOVE ITEMS FROM CURRENT LOCATIONS & PREPARE FOR TRANSPORT BY THE OWNER.

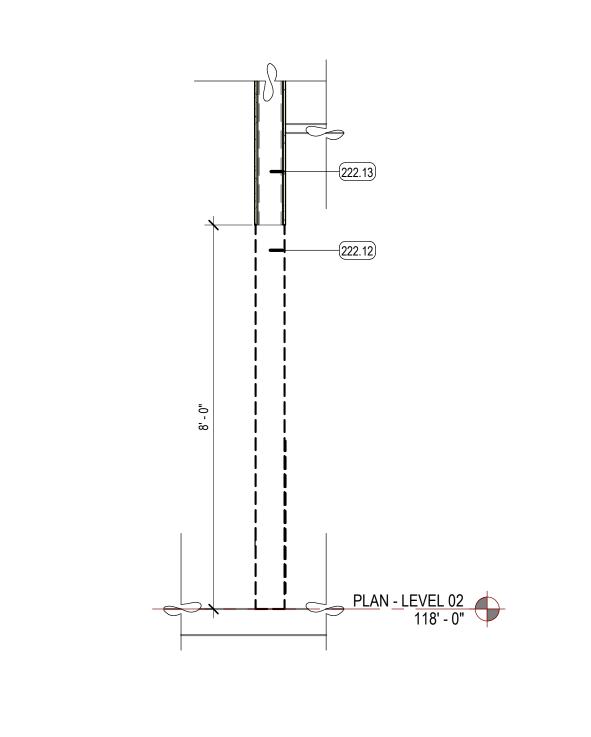
GENERAL PLAN DEMOLITION NOTES

- 1. REFER TO ELECTRICAL AND MECHANICAL PLANS FOR REQUIRED ADDITIONAL
- DEMOLITION 2. MAINTAIN EXISTING FIRE RATINGS THROUGHOUT CONSTRUCTION
- 3. DO NOT DISTURB EXISTING FIRE RATED ELEMENTS INCLUDING FIREPROOFING. PATCH/REPAIR DAMAGED OR DISTURBED ITEMS.
- 4. AFTER DEMOLITION, PRIOR TO FINISH, PATCH AND REPAIR EXISTING WALLS TO PROVIDE SMOOTH SURFACE SUITABLE FOR PAINTING OR WALL COVERING.
- 5. PATCH & LEVEL EXISTING CONCRETE SLABS FOR NEW FINISHES WITH FLOOR LEVELING COMPOUND.
- 6. FIELD VERIFY AND COORDINATE SAW CUTTING OF THE CONCRETE FLOOR SLAB WITH PLUMBING AND ELECTRICAL. 7. REPLACE SLAB AND TRENCH BY COMPACTING CLEAN GRAVEL IN 8 INCH LIFTS. DRILL #4
- EPOXY-COATED REBAR INTO EXISTING SLAB @ 12 INCHES OC. POUR SLAB TO PROVIDE A SMOOTH EVEN FLOOR.
- 8. WHERE ELECTRICAL CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED, MAKE NECESSARY MODIFICATIONS TO MAINTAIN CIRCUIT INTEGRITY.
- 9. REMOVE ELECTRICAL BOXES BEHIND RELOCATED MILLWORK AND CAP AS REQUIRED. 10. CAP EXISTING DUCT WORK FOR DUST CONTROL.

DEMOLITION LEGEND



HALF-TONE LINE DENOTES ITEMS TO REMAIN DASHED LINE DENOTES ITEMS TO BE DEMOLISHED AREA TO REMAIN UNDISTURBED DURING CONSTRUCTION



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KEYED NOTES

222.0	EXISTING ROOFING, REMOVE IN ITS ENTIRETY
222.1	EXISTING ROOFING INSULATION, REMOVE IN ITS ENTIRETY
222.3	EXISTING EXTERIOR MEATL PANEL, REMOVE AS INDICATED
222.5	EXISTING EXTERIOR SHEATHING, REMOVE AS INDICATED
222.6	EXISTING EXTERIOR RIGID INSULATION, REMOVE AS INDICATED
222.7	EXISTING EXTERIOR BRICK VENEER, REMOVE AS INDICATED
222.9	EXISITNG EXTERIOR METAL STUDS, REMOVE AS INDICATED
222.10	EXISTING EXTERIOR METAL STUDS, PROTECT AS NECESSARY, REPAIR
222.12	EXISTING INTERIOR METAL STUD WALL, REMOVE AS INDICATED
222.13	EXISTING INTERIOR METAL STUD WALL, PROTECT AS NECESSARY, RE
222.14	EXISTING DOOR AND FRAME, REMOVE IN ITS ENTIRETY
222.15	EXISTING SUSPENDED ACOUSTICAL TILE CEILING, REMOVE AS INDICA
222.17	EXISTING PARAPET CAP, REMOVE AS INDICATED
222.20	EXISTING EXTERIOR SHEATHING, PROTECT AS NECESSARY, REPAIR A
222.21	EXISTING INTERIOR GYPSUM WALL BOARD, PROTECT AS NECESSARY REQUIRED

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



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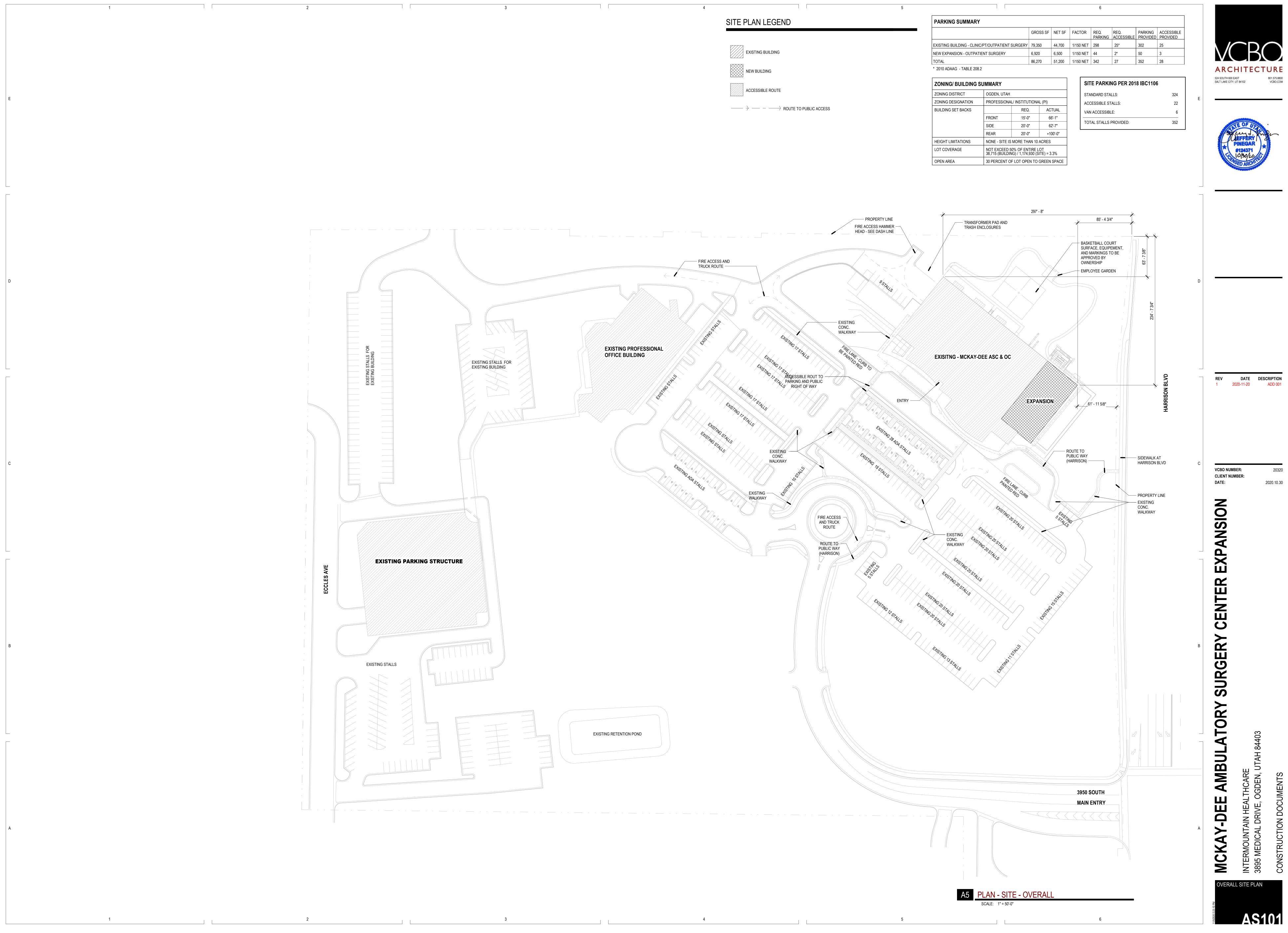
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DEMOLITION SECTIONS

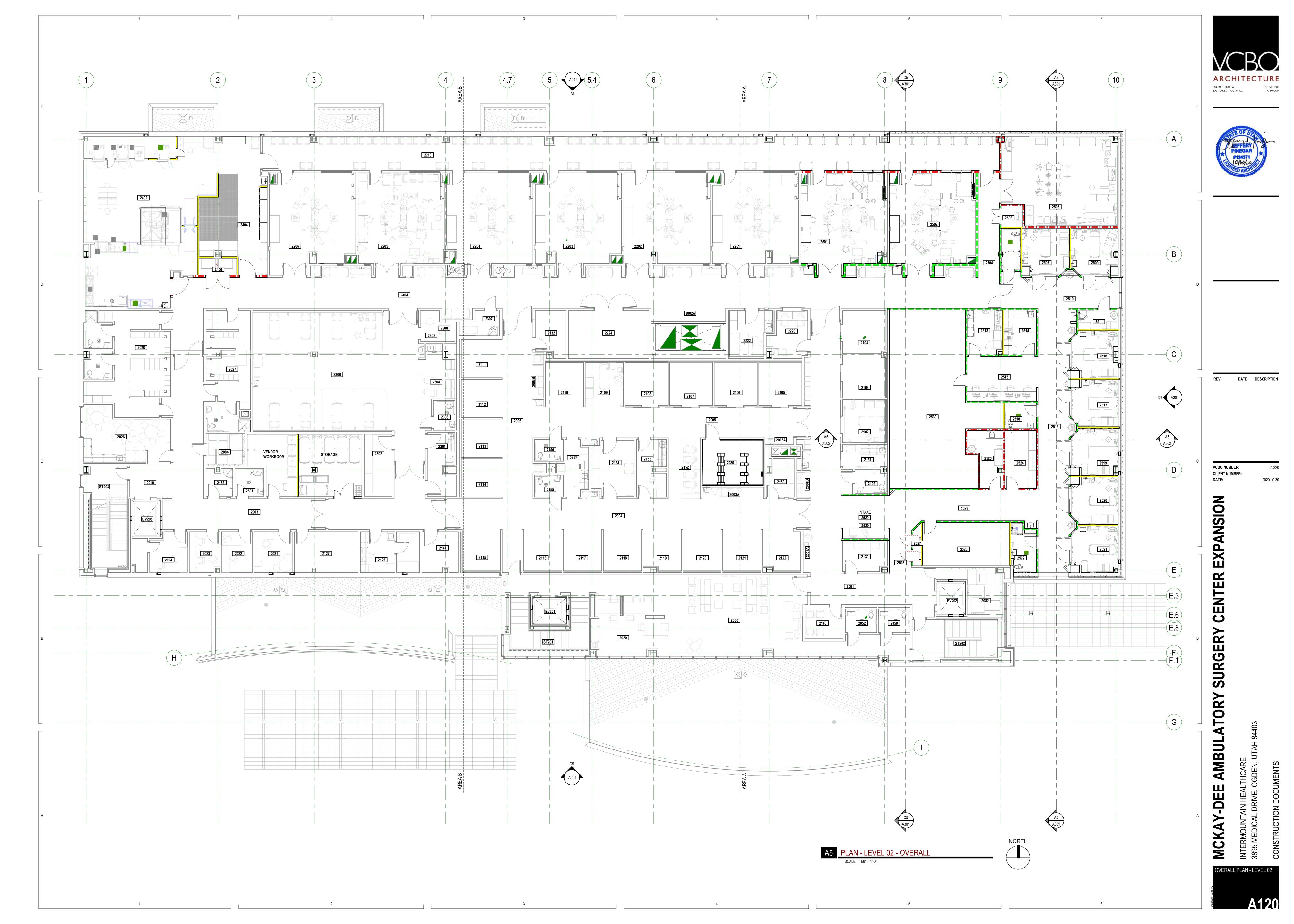
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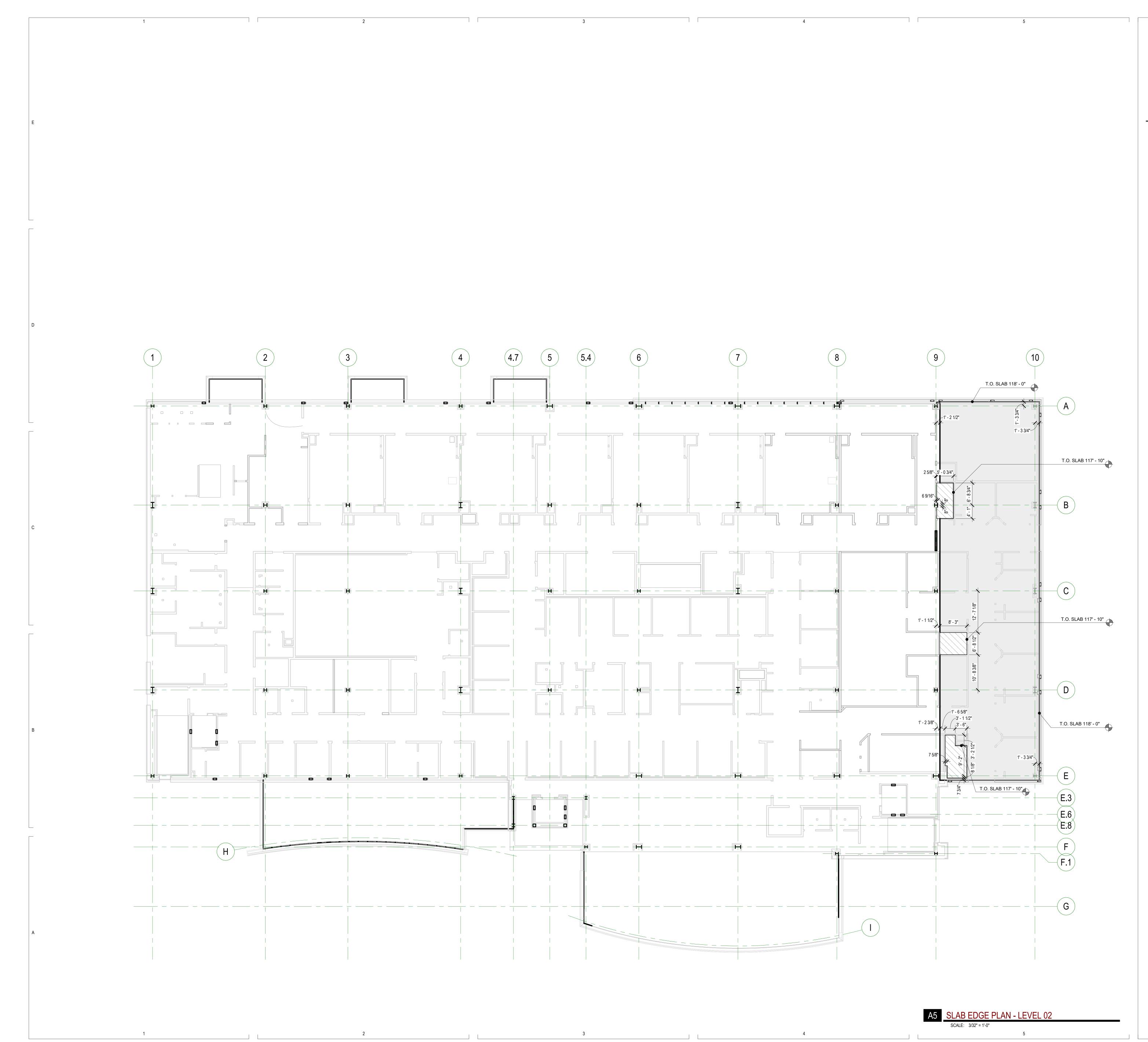


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PARKING SUMMARY							
	GROSS SF	NET SF	FACTOR	REQ. PARKING	REQ. ACCESSIBLE	PARKING PROVIDED	
EXISTING BUILDING - CLINIC/PT/OUTPATIENT SURGERY	79,350	44,700	1/150 NET	298	25*	302	
NEW EXPANSION - OUTPATIENT SURGERY	6,920	6,500	1/150 NET	44	2*	50	
TOTAL	86,270	51,200	1/150 NET	342	27	352	

ONING DISTRICT	OGDEN, UTAH				
ONING DESIGNATION	PROFESSIONAL/ INSTITUTIONAL (PI)				
BUILDING SET BACKS		REQ.	ACTUAL		
	FRONT	15'-0"	66'-1"		
	SIDE	20'-0"	62'-7"		
	REAR	20'-0"	+100'-0"		
EIGHT LIMITATIONS	NONE - SITE IS	MORE THAN 10	ACRES		
OT COVERAGE	NOT EXCEED 50% OF ENTIRE LOT 38,715 (BUILDING) / 1,174,930 (SITE) = 3.3%				
DPEN AREA	30 PERCENT O	F LOT OPEN TO	GREEN SPACE		





SLAB EDGE LEGEND

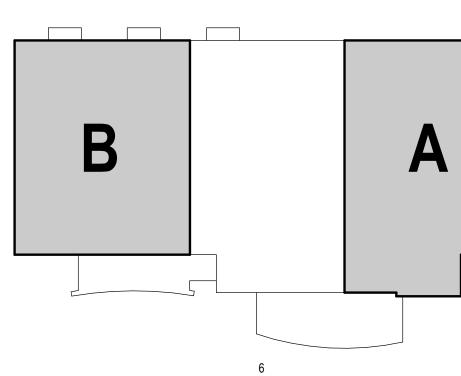
CONCRETE SLAB CONC. SLAB, 1 1/2" RECESS TO RECEIVE THICK SET TILE SYSTEM

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GENERAL SLAB EDGE NOTES

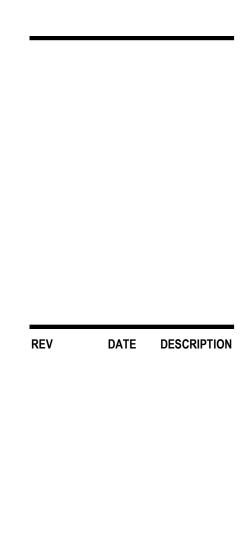
- 1. DECK BEARING ELEVATIONS SHOWN ON THIS SHEET ARE TO BE INCLUDED FOR ARCHITECT'S REFERENCE ON ALL STEEL SHOP DRAWINGS. 2. THE CONTRACTOR IS TO ASSURE THAT THE MINIMUM STRUCTURAL
- ROOF DECKING SLOPE IS NOT LESS THAN 1/4" PER FOOT AS INDICATED ON THE DRAWINGS, U.N.O. 3. NOT ALL ROOF PENETRATIONS ARE SHOWN ON THE
- ARCHITECTURAL SLAB EDGE PLAN SHEETS. IN ADDITION TO THE ARCHITECTURAL, THE CONTRACTOR IS RESPONSIBLE FOR REFERENCING THE STRUCTURAL, MECHANICAL AND ELECTRICAL DOCUMENTS FOR ALL SUCH OCCURRENCES.
- 4. DIMENSIONS ON THE SLAB EDGE PLAN ARE TO THE FACE OF CONCRETE FOUNDATION WALL, FACE OF METAL ANGLE AT COMPOSITE AND METAL ROOF DECKING, OR CENTER-LINE OF METAL ROOF DECK PENETRATIONS, U.N.O.
- 5. STRUCTURAL ROOF MEMBERS ARE SHOWN LIGHT GRAY BELOW ROOF DECK FOR REFERENCE PURPOSES ONLY, VERIFY WITH STRUCTURAL DRAWINGS.

KEY PLAN





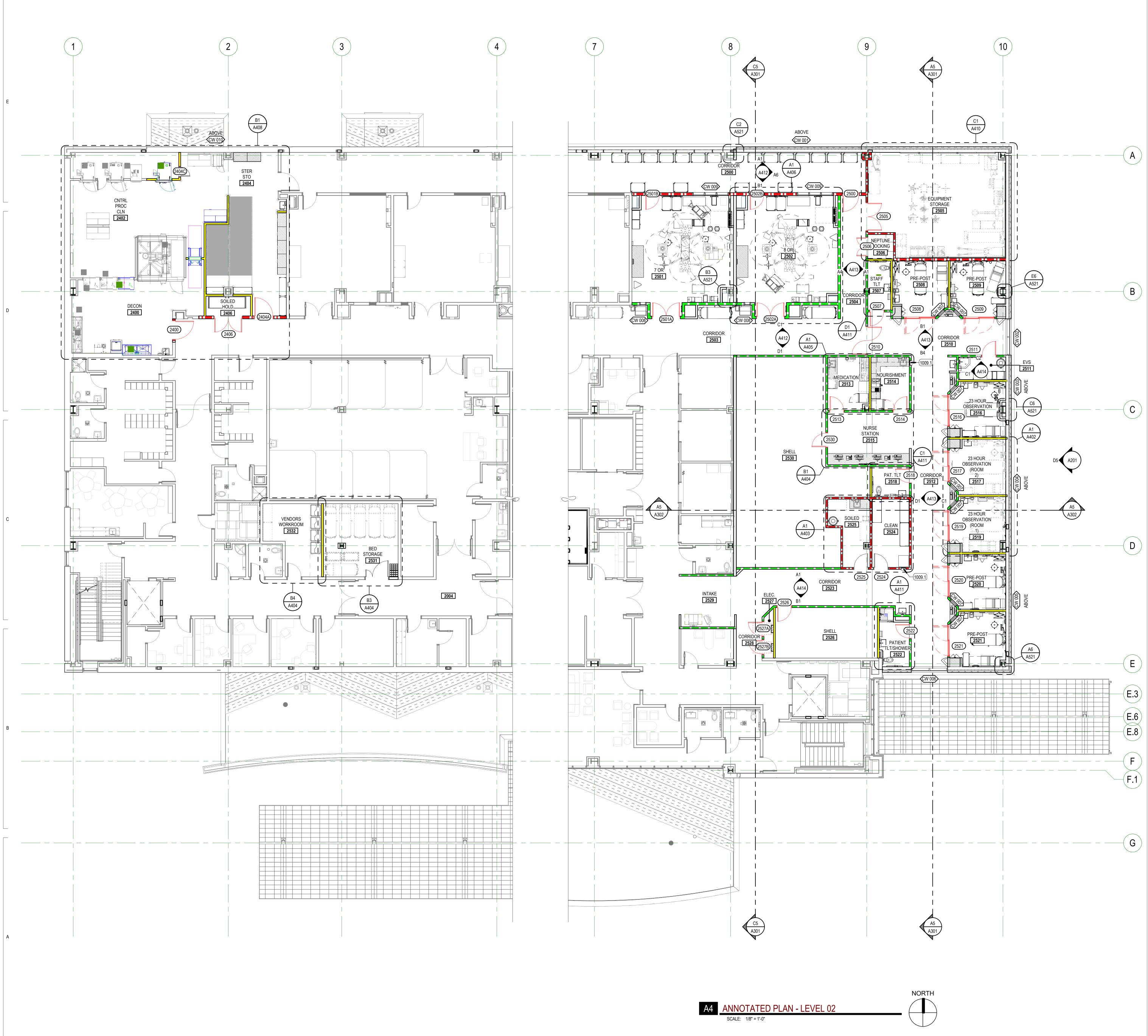




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PLAN NOTES

- 1. WHERE FLOOR DRAINS ARE INSTALLED THE FLOOR IS TO SLOPE TO THE DRAIN. THE MAXIMUM SLOPE IS NOT TO EXCEED 2% WHILE THE MINIMUM SLOPE IS NOT TO BE LESS THAN 1%.
- 2. SEE SHEET A580 FOR TYPICAL FLOORING TRANSITION DETAILS.
- 3. SEE SHEET A520 FOR TYPICAL FIRE EXTINGUISHER CABINET INSTALLATION DETAILS

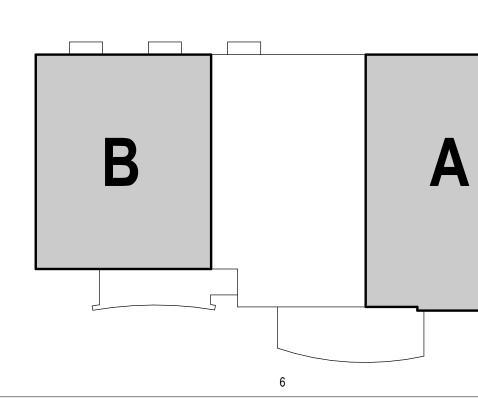
PARTITION + FRAMING GENERAL NOTES

- FRAMED WALL PARTITIONS
- 1. PARTITION TYPE INDICATIONS ARE INDEPENDENT OF APPLIED FINISHES. SEE FINISH SHEETS AND INTERIOR ELEVATIONS FOR WALL FINISHES INCLUDING TILE COURSING AND LAYOUT AND/OR THE DESIGNATIONS ON THE PLANS FOR ADDITIONAL INFORMATION REGARDING APPLIED FINISHES. WHERE PARTITION TYPE DESIGNATION ON FLOOR PLANS IS INTERRUPTED BY DOOR OPENING, GLAZED PARTITION, ETC., CONSTRUCTION ABOVE INTERRUPTION (AND WHERE APPLICABLE BELOW)
- IS TO BE THE SAME AS THAT DESIGNATED FOR THE PARTITION IN WHICH THE INTERRUPTION OCCURRED. THE MINIMUM REQUIREMENTS FOR CONSTRUCTION OF EACH PARTITION TYPE AS EXPRESSED BY
- THE INDICATED REFERENCE ARE INCORPORATED BY REFERENCE AND ARE APPLICABLE TO THE WORK OF THIS PROJECT. HOWEVER, ADDITIONAL AND/OR MORE RESTRICTIVE REQUIREMENTS MAY BE INDICATED BY THE SPECIFICATIONS AND DRAWINGS. SUCH REQUIREMENTS ALSO APPLY AND SHALL GOVERN. SUCH REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO:
- a. USE 5/8" THICK GYPSUM BOARD THROUGHOUT UNLESS NOTED OTHERWISE. b. USE 16" OC MAX STUD SPACING UNLESS NOTED OTHERWISE IN THESE DOCUMENTS. THE SPACING STATED BY THE REFERENCED APPROVAL OR EST REPORT IS THE MAX SPACING IF ALLOWED IN THESE DOCUMENTS. c. USE STUDS OF GAUGE INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS. THE GAUGE STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MINIMUM GAUGE TESTED, 20
- GA (30 MILS) IS THE MINIMUM ALLOWED IN THESE DOCUMENTS. USE STUDS OF DEPTH INDICATED BY THIS SET OF DOCUMENTS. THE DEPTH STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MINIMUM DEPTH TESTED DEPTH ALLOWED IN THESE DOCUMENTS. SEE STRUCTURAL DOCUMENTS FOR ADDITIONAL INFORMATION PERTAINING TO THE CONSTRUCTION OF CONCRETE, MASONRY AND STUD WALLS
- PROVIDE FIRE RATED CONSTRUCTION ASSEMBLIES WHERE INDICATED ON SHEETS G100'S AND FLOOR PLAN DRAWINGS.
- ALL DIMENSIONS ARE CENTER OF STUD OR FACE OF CONCRETE, MASONRY OR ROUGH OPENING UNLESS NOTED OTHERWISE. FACE OF FINISHED WALL WILL BE NOTED AS FOW.
- AT ALL INTERIOR WALLS, STUDS, INSULATION AND GYPSUM BOARD ARE TO EXTEND TO THE DECK ABOVE. UNLESS NOTED OTHERWISE.
- 8. WALL TYPES NOT NOTED ARE ASSUMED TO MATCH ADJACENT ROOMS. SEE SHEETS FOR FINISHES, NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- 9. ALL METAL STUD PARTITIONS ARE CONSIDERED ACOUSTIC PARTITIONS AND ARE TO RECEIVE A TYPE 1 SOUND ATTENUATION BLANKET. THICKNESS TO MATCH STUD DEPTH, UNLESS NOTED OTHERWISE.
- 10. REFER TO SHEET A520 FOR TYPICAL INTERIOR WALL CONDITIONS ASSOCIATED WITH ALL METAL STUD PARTITIONS.
- 11. PROVIDE CONTROL JOINTS IN METAL FRAMED WALLS AT APPROXIMATELY 30 FEET ON CENTER. LOCATE AT CORNER ABOVE DOORS OR INSIDE CORNER OF PILASTERS OR OTHER INCONSPICUOUS LOCATION WHERE POSSIBLE. CONSULT WITH ARCHITECT PRIOR TO COMMENCING FRAMING. INSTALL PER DETAILS ON SHEET A520 FOR CONTROL JOINTS.
- 12. AT WALL OPENINGS FOR PENETRATION OF PIPES, DUCTS, DEVICES, ETC., GYPSUM BOARD IS TO BE CUT TO MATCH THE SHAPE AND DIMENSION OF THE PENETRATING OBJECT AND THE GAP BETWEEN THE OBJECT AND THE WALL IS TO BE SEALED W/ ACOUSTICAL OR FIRE SEALANT ON ALL SIDES WITH A 3/4" JOINT AT ALL SIDES, MAXIMUM. THE OPENING FOR DUCTS OR LARGE PENETRATIONS SHALL BE FRAMED WITH A HEADER, ADD AN ANGLED CORNER BRACE IF THE GAP EXCEEDS 3" FROM FRAMING TO THE OPENING.
- 13. PROVIDE BLOCKING / BACKING FOR ALL WALL MOUNTED EQUIPMENT. SEE FLOOR PLANS AND INTERIOR ELEVATIONS FOR CABINETS, GRAB BARS ETC. INSTALL BLOCKING AS DETAILED OR AS REQUIRED TO MOUNT SUCH DEVICES. ALL BLOCKING IS TO BE FIRE RETARDANT TREATED.
- 14. WHERE THERE IS LIMITED WATER EXPOSURE: INSTALL ONE LAYER OF 5/8" TYPE X WATER RESISTANT GYPSUM BOARD PER ASTM C1396 (WHERE GYPSUM BOARD OCCURS) OF BASIC PARTITION AT THE FOLLOWING LOCATIONS: a. WITHIN 2 FEET HORIZONTALLY AND 4 FEET VERTICALLY OF JANITORS SINKS b. AT OTHER LOCATIONS, I.E. TOILET ROOMS AND KITCHENS, AND AS INDICATED ON THE
- ARCHITECTURAL FINISH PLANS AND ELEVATIONS. 15. INSTALL ONE LAYER OF 5/8" GLASS MAT TILE BACKER BOARD IN LIEU OF GYPSUM BOARD (WHERE GYPSUM BOARD OCCURS) OF BASIC PARTITION WHERE THERE IS NO FIRE RATING AND OVER
- GYPSUM BOARD FACE LAYER AT FIRE RATED PARTITIONS AT THE FOLLOWING LOCATIONS. 16. AT WET LOCATIONS, SUCH AS SHOWER STALLS AND TUB SURROUNDS.
- a. WHERE CERAMIC TILE FINISHES ARE INDICATED PER THE FINISH PLANS AND/OR INTERIOR ELEVATIONS. b. AT OTHER LOCATIONS AS INDICATED BY THE ARCHITECTURAL FINISH PLANS AND ELEVATIONS.
- WHERE NEW WALLS OR FURRING ARE INDICATED TO BE DIMENSIONED OFF OF AN EXISTING WALL, THE NEW WALL SHALL BE STRAIGHT AND PLUMB REGARDLESS OF THE CONDITION OF THE EXISTING WALL.
- 18. ALL EXTERIOR STUD WALLS TO HAVE CONTINUOUS INSULATION, VAPOR BARRIER AND AIR INFILTRATION BARRIER FOR THE FULL HEIGHT AND LENGTH OF THE WALL, SEAL ALL PENETRATIONS.

KEYED NOTES

RECESSED FIRE EXTINGUISHER CABINET 1009.1

KEY PLAN



19. THE AIR INFILTRATION BARRIER IS TO WRAP INTO ALL WINDOW AND DOOR OPENINGS.





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ANNOTATED PLAN - LEVEL

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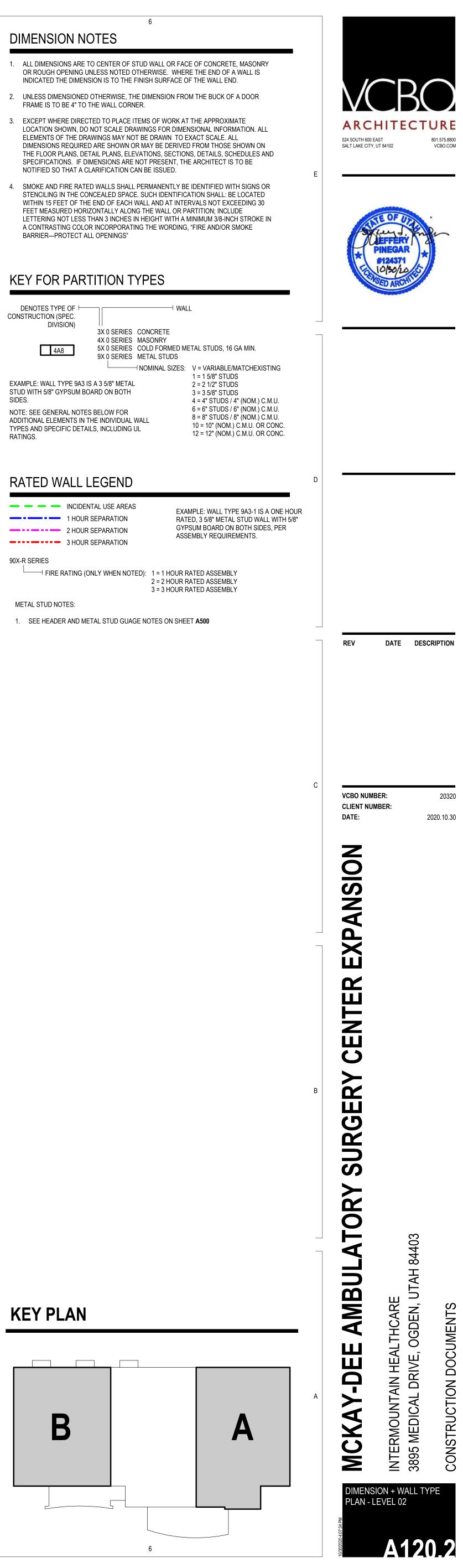


DIMENSION NOTES

- BARRIER—PROTECT ALL OPENINGS"

KEY FOR PARTITION TYPES

DENOTES TYPE OF CONSTRUCTION (SPEC. DIVISION)		• • • • • • • • • • • •	
EXAMPLE: WALL TYPE 9A3 IS STUD WITH 5/8" GYPSUM BO/ SIDES. NOTE: SEE GENERAL NOTES ADDITIONAL ELEMENTS IN TH TYPES AND SPECIFIC DETAIL RATINGS.	ARD ON BOTH BELOW FOR HE INDIVIDUAL	WALL	V = VARIABLE/MA 1 = 1 5/8" STUDS 2 = 2 1/2" STUDS 3 = 3 5/8" STUDS 4 = 4" STUDS / 4" 6 = 6" STUDS / 6" 8 = 8" STUDS / 8" 10 = 10" (NOM.) C 12 = 12" (NOM.) C
RATED WALL L	EGEND		





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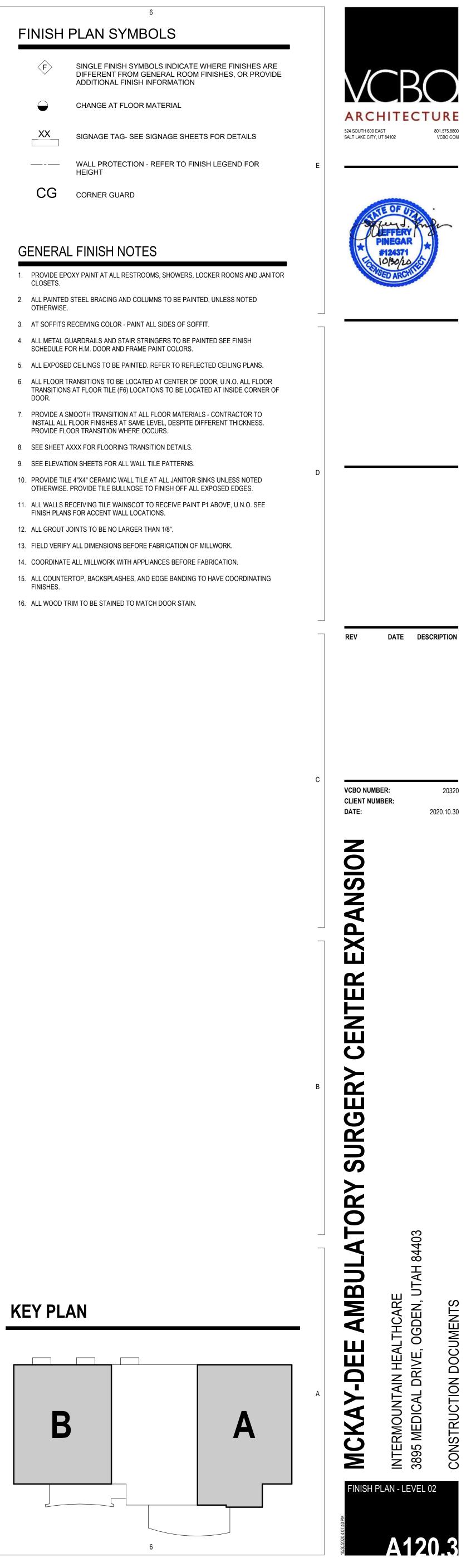
F	SINGLE FINISH SYMBOLS INDICATE WHERE FINIS DIFFERENT FROM GENERAL ROOM FINISHES, OF ADDITIONAL FINISH INFORMATION
\bigcirc	CHANGE AT FLOOR MATERIAL
XX	SIGNAGE TAG- SEE SIGNAGE SHEETS FOR DETA
	WALL PROTECTION - REFER TO FINISH LEGEND F
CG	CORNER GUARD

- CLOSETS.

- SCHEDULE FOR H.M. DOOR AND FRAME PAINT COLORS.
- DOOR.
- PROVIDE FLOOR TRANSITION WHERE OCCURS.

- FINISH PLANS FOR ACCENT WALL LOCATIONS.

- FINISHES.



E	1	2	3
	PROVIDE NEW STUD / GYP. BOARD (PAINTED) INFILL FROM SILL TO HEAD OF EXISTING CURTAIN WALL AS SHOWN		
		D5 A530 C5 C5 C5	
_		A530 A530 A530 A530 A530 E 9' - 0"	
C			A3 A530 A 9'-0" A3 A530 A 9'-0" A3 A530 A 9'-0" A3 A530 A 9'-0" A3 A530 A 9'-0" A3
B			
_			
A			

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A4 REFLECTED CEILING PLAN - LEVEL 02 SCALE: 1/8" = 1'-0"

CEILING LEGEND

5

A-	SUSPENDED 2' X 2' ACOUSTICAL LAY-IN TILE CEILING
B-	SUSPENDED WOOD PLANK CEILING SYSTEM
C-	SUSPENDED 5/8" GYP. BD. CEILING SYSTEM - (1 LAYER) PAINTED
D-	OPEN TO STRUCTURE ABOVE, PAINTED.
E-	SUSPENDED 2' X 2' ACOUSTICAL LAY-IN TILE CEILING (VINYL COATED)

CEILING SYMBOLS

ELECTRICAL

	2'X4' LED FIXTURE
	2'X2' LED FIXTURE
	6"X4' LED FIXTURE
0	RECESSED DOWN LIGHT
\otimes	EXIT SIGN, SINGLE-SIDED
\otimes	EXIT SIGN, DOUBLE-SIDED
MECHANICAL	
\square	SUPPLY GRILLE
	RETURN GRILLE
	EXHAUST GRILLE
	LINEAR DIFFUSER

GENERAL CEILING NOTES

1. REFER TO DETAIL A6/A530 FOR TYPICAL CEILING SUSPENSION & SEISMIC BRACING

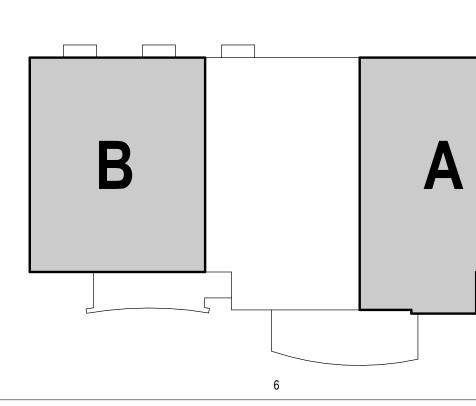
LINEAR DIFFUSER

- 2. REFER TO DETAIL A5/A530 FOR TYPICAL SUSPENDED GYP. BOARD CEILINGS
- 3. ALL UNIDENTIFIED CEILING TYPES ON THE PLANS SHALL BE TYPE " A" AT 9'-4" A.F.F. 4. GRID SUSPENSION SYSTEMS SHALL BE CENTERED WITHIN AREAS INDICATED, UNLESS
- NOTED OTHERWISE
- 5. PAINT ALL EXPOSED STRUCTURE, MECHANICAL, DUCTS, ELECTRICAL WORK, PIPING, ETC. ALL VISIBLE ELEMENTS TO BE PAINTED
- 6. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF MECHANICAL GRILLES, AND TO MECHANICAL DRAWINGS FOR QUANTITIES AND TYPES
- 7. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF LIGHT FIXTURES AND TO ELECTRICAL DRAWINGS FOR QUANTITY AND TYPES
- 8. MECHANICAL AND ELECTRICAL CONTRACTORS TO COORDINATE WORK WITH SPRINKLER CONTRACTOR TO AVOID CONFLICTS IN FIELD
- 9. ALL CEILING HEIGHTS ARE ELEVATION ABOVE TOP OF CONCRETE FLOOR SLAB
- 10. ALL TYPE C CEILINGS IN RESTROOMS, LOCKER ROOMS, SHOWERS, AND WET AREAS TO BE EPOXY PAINTED

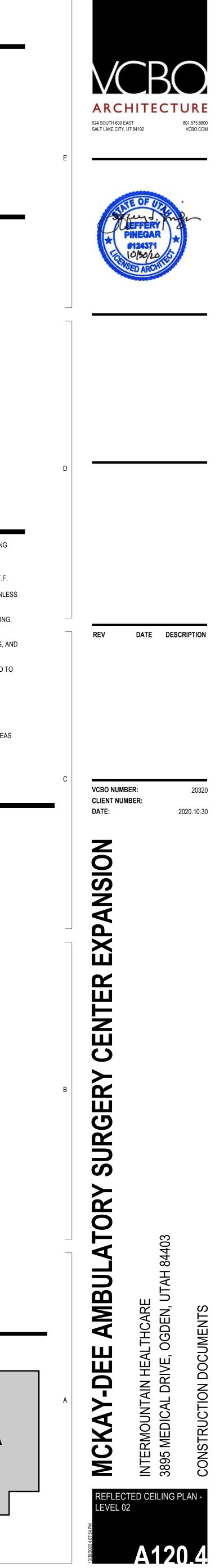
KEYED NOTES

804.1 CEILING MOUNTED CURTAIN

KEY PLAN







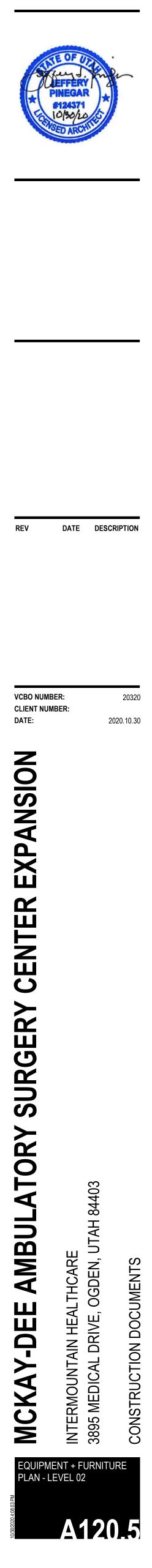


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	NOF	RTH
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EQUIPME		QUIPMENT L	EGEND
MED = ME GYM = GY	DICAL MNASIUM	COM = COMMERCIAL GEN = GENERAL	OFF = OFF FUR = FUR
CODE		DESCR	RIPTION
AR1		GING-C-ARM EQUIPMENT	
AR3 AS1		GING-MINI C-ARM T VACUUM + CUTTER	
AS4.2 AT1		TION-PORTABLE W. STAND T-ANESTHESIA MACHINE	
AU12	MED - STE	RILIZER-FULL HEIGHT-RIGH	``
AU22.1 AU23.2		SHER PASS THRU-FULL HEI RASONIC CLEANER-FREES	
AU24.1 BO3	MED - SINK	K-REPROCESSING-FREESTA M-EQUIPMENT TOWER W. \$	ANDING-2 BAYS
BO3 BO4		RD-PATIENT SLIDER-STAN	
BO5 BO8		M-ANESTHESIA W. ARTICU DEM BOOM W. 2 ARMS - MC	
CA10	GEN - CAR	T-STORAGE-FULL HEIGHT 2	24 X 48
CA10.2 CA11		T-STORAGE-FULL HEIGHT 2 T-STORAGE-FULL HEIGHT 2	
CA14 CA19.1		T-STORAGE-FULL HEIGHT	
CA19.1 CA19.2	GEN - CAR	T- DECONTAMINATION - WA	<u> 10 п</u>
CA20.1 CA21.2		IT-ANESTHESIA H DENSITY STORAGE (WIRE	SHELVING) - TOP
CA23.1	GEN - CAR	T-UTILITY-SOLID SHELVES	(S.S.) 24X36
CA23.3 CB10.2		LE-WORK-SS W. CASTERS - INET-FLOOR STANDING-ST/	
CH5.1	FUR - RECI	LINER-PATIENT	
CH14 CK1		IR-FOLDING W. WALL HOLD CK-ANALOG (WALL)	ER
CK3 CO2.1		CK-DIGITAL (WALL) PUTER-DESKTOP-KEYBOAR	
CO2.1 CO2.2		PUTER-DESKTOP-KEYBOAR	
CO4 DB1		PUTER-WORKSTATION-WA	
DI1	GEN - DISF	PENSER-PAPER TOWEL (C-F	
DI3 DI4		PENSER-SOAP D SANITIZER DISPENSER	
DI7	MED - DISF	PENSER-GLOVE-TRIPLE	
DI26 DI27		PENSER-EMESIS BAGS-WAL ISEPTIC WIPES DISPENSER	
DM1 DS5		A DISPENSER-COUNTER (4 PENSING SYSTEM-MEDICAT	
ES1	MED - GEN	ERATOR - BIPORAL ELECT	
ES6	W.CART MED - LASI	ER- SURGICAL- w.CART	
FEC	Semi-Reces		F
FS11.1 FS13		DD-COFFEE BREWER-SINGL DD SERVICE-DISPENSER-CU	
GU7 IM1		NEY-STRETCHER (STANDA MACHINE-COUNTER	RD)
MW1	COM - MICI	ROWAVE-COUNTER	
0 PB1		GAS-WALL-OXYGEN -PATIENT-TRANSPORT	
PB5 PR2		SINET-INFANT ITER-DESKTOP	
PR2 PR4		ITER-LABEL	
PT7 PU2.2		RILIZATION-RACK RETURN ND - HIGH FLOW POLE (ICU) - WITH CARE EUS
	FUSION PL	JMPS	,
RA11 RE5.1		K-MED GASES (12 E-TANKS RIGERATOR-TOP FREEZER	
RE18 SC11		RIGERATOR-UNDERCOUNT LE-WHEELCHAIR + STAND (
SL1		OL-PHYSICIAN	ON-FORTABLE
SL3 SL8.2		OL W. BACK & FOOT RING OL-STEP W. HANDLE	
SN1	MED - BAR	CODE SCANNER	
SS1 SS5		RNEQUET PUMP- POLE MO CTION-SURGICAL-SHOULDE	
ST1	MED - STA	ND-IV POLE	
ST2 ST8	MED - STAI	ND-MAYO ND BASIN-SINGLE	
ST12 TA12		TION- SUCTION TREE SURC	GICAL
TA12 TA14		LE-OVERBED-PATIENT	
TA36 TA37		LE-OPERATING-FRACTURE LE-OPERATING-SPINE TABL	
TA38	TABLE- OP	ERATING- SHOULDER/EYE	
TE1 TE2		EPHONE-WALL EPHONE-DESK	
TV1.3		V-WALL MOUNTED-MEDICA	
TV4.1 WA2		TV-WALL MOUNTED (LANDS RMER-BLANKET-FULL HEIGH	,
WA5 WA19		RMER-IV/BLOOD-COUNTER IENT WARMER - BAIR PAW (
WH1	MED - WAS	STE-BIO HAZARD	
WH2 WH4		IPER-LINEN (W. CLOSE LID) RP CONTAINER-WALL	
WH9	MED - KICK	(BUCKET	
WH10 WH10.1		STE-SHARP CONTAINER TRO STE-SHARP CONTAINER-FLO	
WH11	GEN - WAS	STE CAN (7 GAL.)	, <i>1</i>
WH13 WH17.2	GEN - WAS	STE CAN (23 GAL.) STE CAN W. DOLLY (44 GAL.)
WH29 WH30	GEN - LINE	N TRUCK-BULK T - DIRTY LINNEN TRUCK 28	
WH31.2	GEN - HOU	ISEKEEPING CART	
WM1 WM2		STE MANAGEMENT SYSTEM	
WM2.1	MED - WAS	STE MANAGEMENT SYSTEM	I-LIQUID-DOCKING
WS9 WS16.1		GING-C-ARM WORKSTATION RKSTATION-C.P. PREP & PA	
			+ UNDERSHELF (24

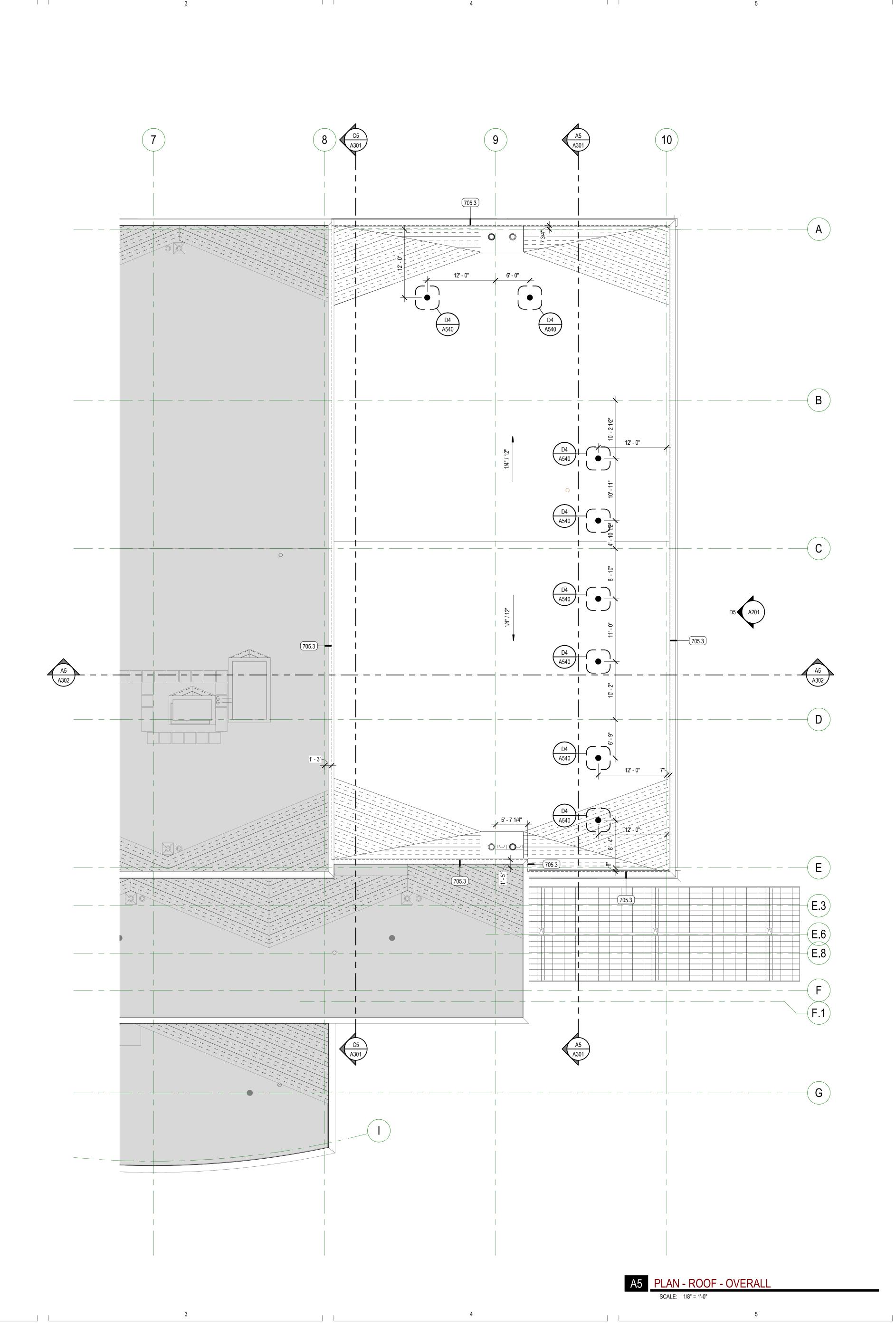




ARCHITECTURE

524 SOUTH 600 EAST SALT LAKE CITY, UT 84102

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GENERAL ROOF NOTES

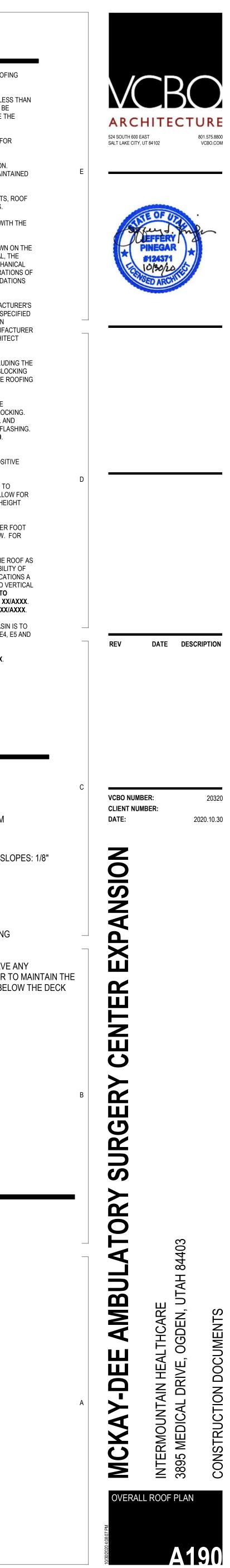
- 1. ALL ROOF DECK IS TO BE COVERED IN R-30 INSULATION AND SPECIFIED ROOFING SYSTEM. 2. THE CONTRACTOR IS TO ASSURE THAT THE MINIMUM ROOF SLOPE IS NOT LESS THAN 1/2" PER FOOT. ANY AREA THAT IS LESS THAN 1/2" PER FOOT SLOPE SHALL BE
- ADJUSTED AT THE CONTRACTORS EXPENSE WITH CRICKETING TO PROVIDE THE REQUIRED SLOPE. 3. DECK BEARING ELEVATIONS SHOWN ON THIS SHEET ARE TO BE INCLUDED FOR
- ARCHITECT'S REFERENCE ON ALL STEEL SHOP DRAWINGS. 4. ALL ROOFING CRICKETS ARE TO BE CONSTRUCTED OF TAPERED INSULATION. CRICKETS ARE TO BE INSTALLED SO THAT A SLOPE OF 1/4" PER FOOT IS MAINTAINED ACROSS THE FACE OF THE CRICKET.
- 5. PROVIDE CRICKETS AT ALL ROOF TOP MOUNTED EQUIPMENT (I.E. SKYLIGHTS, ROOF HATCHES, ETC.) TO ASSURE POSITIVE DRAINAGE AROUND SUCH ELEMENTS.
- 6. ALL FLASHING, COUNTER FLASHING AND SHEET METAL WORK TO COMPLY WITH THE MINIMUM STANDARDS PER THE CURRENT EDITION OF SMACNA.
- 7. NOT ALL ROOF MOUNTED EQUIPMENT AND ROOF PENETRATIONS ARE SHOWN ON THE ARCHITECTURAL ROOF PLAN SHEETS. IN ADDITION TO THE ARCHITECTURAL, THE CONTRACTOR IS RESPONSIBLE FOR REFERENCING THE STRUCTURAL, MECHANICAL AND ELECTRICAL DOCUMENTS FOR ALL SUCH OCCURRENCES. ALL PENETRATIONS OF THE ROOF SHALL MEET WITH THE ROOFING MANUFACTURER'S RECOMMENDATIONS TO MAINTAIN INTEGRITY OF ROOFING SYSTEMS.
- 8. THE CONTRACTOR IS RESPONSIBLE AT BIDDING, FOR PROVIDING A MANUFACTURER'S APPROVED ROOFING DETAIL FOR ALL ROOFING CONDITIONS SO THAT THE SPECIFIED WARRANTY IS OBTAINED. IF A CONDITION SHOWN IN THESE CONSTRUCTION DOCUMENTS DOES NOT MEET THE REQUIREMENTS OF THE ROOFING MANUFACTURER THESE CONDITIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING AND INSTALLATION OF THE APPROVED DETAIL.
- 9. THE CONTRACTOR IS TO CONFIRM THE ROOFING SYSTEM THICKNESS, INCLUDING THE RIGID INSULATION PRIOR TO INSTALLING CURB AND PARAPET BLOCKING. BLOCKING AND CURB HEIGHTS ARE TO BE ADJUSTED AS NEEDED TO CONFORM TO THE ROOFING THICKNESS TO MEET REQUIREMENTS FOR WARRANTY.
- 10. WHERE ROOFING MEMBRANE IS SHOWN EXTENDING UP TO THE TOP OF THE PARAPET. THE MEMBRANE IS TO WRAP UP. OVER AND DOWN THE WOOD BLOCKING. THE AIR INFILTRATION BARRIER IS TO EXTEND UP EXTERIOR FACE OF WALL AND FULLY OVER THE TOP OF THE PARAPET WALL AND UNDER THE SILL BLOCK FLASHING. VERIFY WALL TYPE FOR PARAPET CAP WIDTH, SEE DETAILS ON SHEET A520. CONTRACTOR TO SEQUENCE WORK TO MEET THIS REQUIREMENT.
- 11. ALL TOPS OF PARAPETS TO BE PROVIDED WITH 1/2" PER FOOT MINIMUM POSITIVE SLOPE TOWARD THE ROOF FOR ADEQUATE DRAINAGE.
- 12. ALL PRE-MANUFACTURED MECHANICAL CURBS ARE TO BE MANUFACTURED TO ACCOMMODATE ROOF SLOPE. THEY MUST BE OF ADEQUATE HEIGHT TO ALLOW FOR THE DEPTH OF THE ROOF INSULATION, INCLUDING CRICKETS AND HAVE 8" HEIGHT ABOVE THE ROOF MEMBRANE, SEE DETAIL XX/AXXX.
- 13. SKYLIGHTS ARE TO BE INSTALLED SO THE TOP OF SKYLIGHT SLOPES 1/2" PER FOOT MINIMUM. THIS SLOPE IS TO SLOPE IN THE DIRECTION OF THE ROOF BELOW. FOR TYPICAL SKYLIGHT CURB, SEE DETAIL XX/AXXX.
- 14. ALL REGLETS ARE TO BE PREFINISHED AND ARE TO BE HELD AS LOW TO THE ROOF AS POSSIBLE, BUT HAVE 8" HEIGHT ABOVE THE ROOF MEMBRANE SO THE VISIBILITY OF THE MEMBRANE FROM THE GROUND BELOW IS MINIMIZED. AT CERTAIN LOCATIONS A SHEET METAL COVER SHEET HAS BEEN DETAILED TO COVER THIS EXPOSED VERTICAL MEMBRANE. ALL REGLETS AT MASONRY WALLS ARE TO BE EMBEDDED INTO MORTAR JOINTS. FOR TYPICAL EMBEDDED MASONRY REGLET, SEE DETAIL XX/AXXX. FOR TYPICAL SURFACE MOUNTED FLASHING ON A STUD WALL, SEE DETAIL XX/AXXX.
- 15. ROOF DRAINS ARE TO BE INSTALLED IN A TWO LEVEL DRAIN BASIN. THE BASIN IS TO BE CONSTRUCTED USING LAYERS OF ROOFING INSULATION. SEE DETAILS E4, E5 AND E6/A520.
- 16. FOR TYPICAL ROOF HATCH AND LADDER, SEE DETAILS XX, XX, AND XX/AXXX.
- 17. FOR TYPICAL ROOF PIPE PENETRATIONS, SEE DETAIL XX/AXXX. 18. FOR TYPICAL ROOF SCUPPERS SEE DETAILS XX AND XX/AXXX.

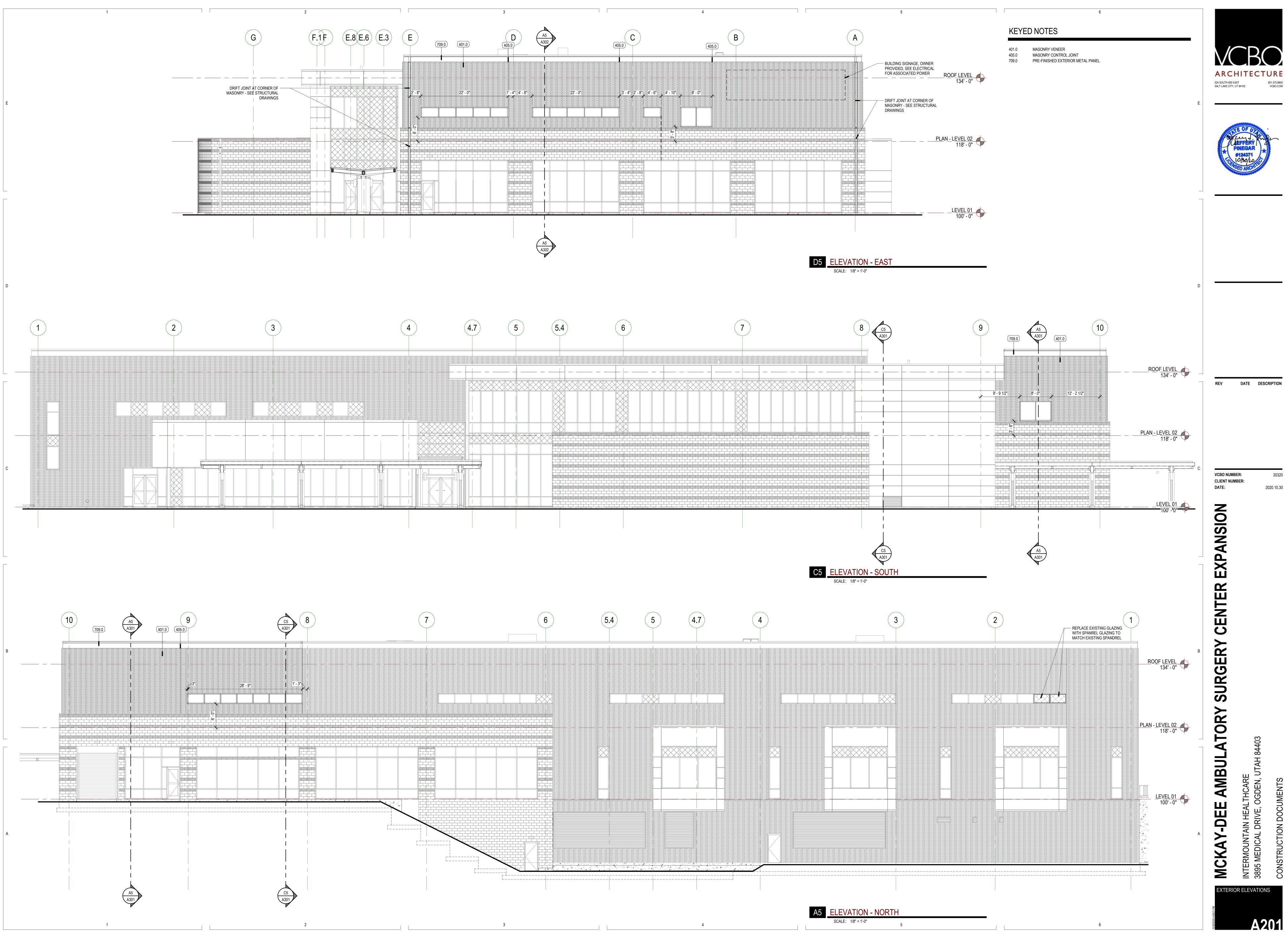
ROOF LEGEND

EXISTING ROOF SYSTEMS
SINGLE PLY MEMBRANE ROOFING SYSTEM
TAPERED INSULATION CRICKET MINIMUM SL ALONG VALLEY, 1/4" ACROSS CRICKET
 DECK RIDGE OR VALLEY
 IMAGINARY VALLEY WITH WARPED DECKING
AREAS HATCHED AS SUCH SHALL NOT HAVE PENETRATIONS THRU THE ROOF IN ORDER 2 HOUR FIRE WALL ASSEMBLY LOCATED BE (AS PER 2006 IBC SECTION 705.6.3).

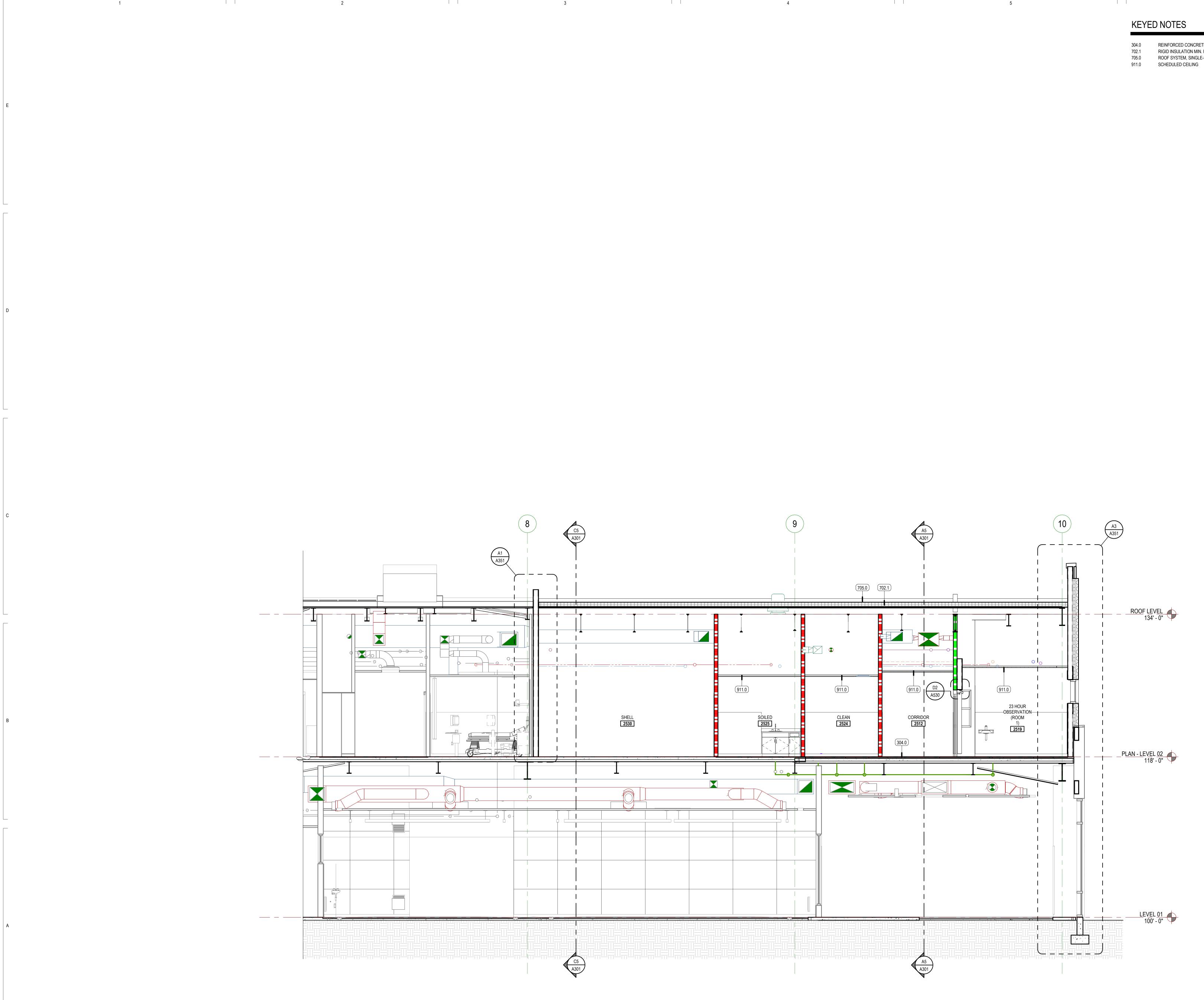
KEYED NOTES

705.3 ROOF SYSTEM, SLAB EDGE







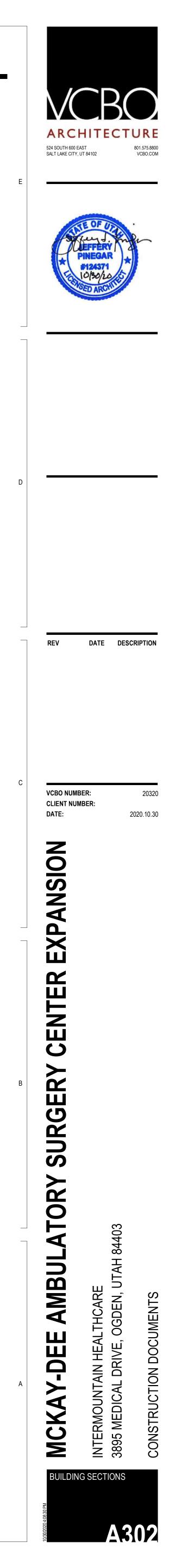


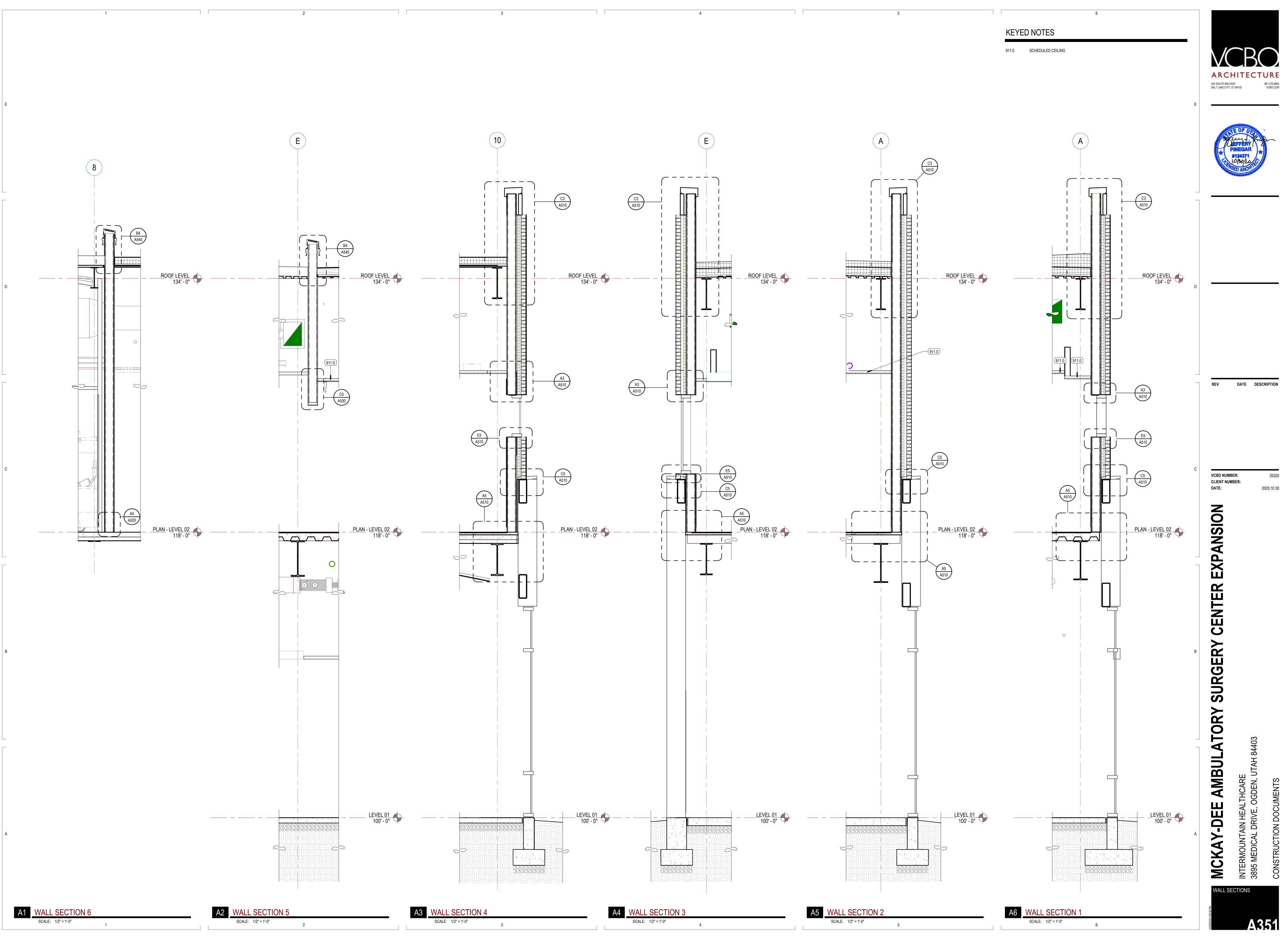
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304.0REINFORCED CONCRETE SLAB TOPPING, 2"702.1RIGID INSULATION MIN. R VALUE = , TAPERED705.0ROOF SYSTEM, SINGLE-PLY MEMBRANE

A5 BUILDING SECTION 3 SCALE: 1/4" = 1'-0" 5



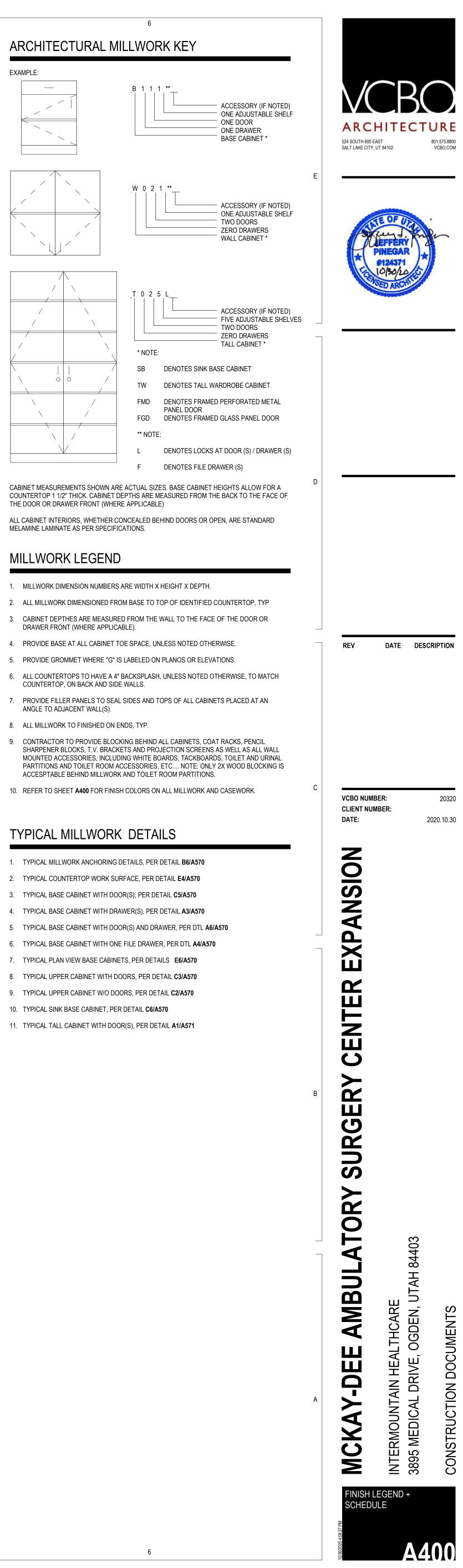


7 OR 2501 F4F5 82 PLP3/M3/M6 PLW3 PLW3 8 OR 2502 F4F5 82 PL93/M3/M6 PLW3 PLW3 SHELL 2530 NA NA NA NA NA NA NA SHELL 2560 NIA NA NA NA NA NA PRE-POST 2520 F1 B1 PLW3 S3,PLW3 PLW3 23 HOUR OBSERVATION 2519 F1 B1 PLW3 S3,PLW3 PLW3 23 HOUR OBSERVATION 2517 F1 B1 PLW3 PLW3 PLW3 NORISHENT 2514 F2 B1 PLW3 PLW3 PLW3 MDURISHENT 2514 F2 B1 PLW3 PLW3 PLW3 MURISHENT 2516 F1 B1 PLW3 PLW3 PLW3 MURISHENT 2516 F1 B1 PLW3 PLW3 PLW3 PL 214	Finish R Wall Finish B W P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 N/A N/A N/A N/A P1,W3 P1,W3 P1,W3 P1,W3 <tr< th=""><th>Wall Finish R Wall Finish B Wall P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 N/A N/A N/A N/A S3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3</th><th>Base Finish Wall Finish T Wall Finish R Wall Finish R Wall Finish R Wall B1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 B2 P1,P3,W3,W6 P1,W3 P1,W3 P1,W3 P1,W3 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3<th>CLEAN 2524 7 OR 2501 8 OR 2502 SHELL 2530 SHELL 2526 PRE-POST 2521 PRE-POST 2520 23 HOUR OBSERVATION (ROOM 1) 2519 23 HOUR OBSERVATION (ROOM 2) 2517 NOURISHMENT 2514 SOILED 2525 MEDICATION 2513 PAT. TLT 2518 23 HOUR OBSERVATION 2516</th><th>5524 B1 1501 F4,F5 1502 F4,F5 1530 N/A 1526 N/A 15521 F1 1520 F1</th><th>B1</th><th></th><th></th><th></th><th></th></th></tr<>	Wall Finish R Wall Finish B Wall P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 N/A N/A N/A N/A S3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3	Base Finish Wall Finish T Wall Finish R Wall Finish R Wall Finish R Wall B1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 B2 P1,P3,W3,W6 P1,W3 P1,W3 P1,W3 P1,W3 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 <th>CLEAN 2524 7 OR 2501 8 OR 2502 SHELL 2530 SHELL 2526 PRE-POST 2521 PRE-POST 2520 23 HOUR OBSERVATION (ROOM 1) 2519 23 HOUR OBSERVATION (ROOM 2) 2517 NOURISHMENT 2514 SOILED 2525 MEDICATION 2513 PAT. TLT 2518 23 HOUR OBSERVATION 2516</th> <th>5524 B1 1501 F4,F5 1502 F4,F5 1530 N/A 1526 N/A 15521 F1 1520 F1</th> <th>B1</th> <th></th> <th></th> <th></th> <th></th>	CLEAN 2524 7 OR 2501 8 OR 2502 SHELL 2530 SHELL 2526 PRE-POST 2521 PRE-POST 2520 23 HOUR OBSERVATION (ROOM 1) 2519 23 HOUR OBSERVATION (ROOM 2) 2517 NOURISHMENT 2514 SOILED 2525 MEDICATION 2513 PAT. TLT 2518 23 HOUR OBSERVATION 2516	5524 B1 1501 F4,F5 1502 F4,F5 1530 N/A 1526 N/A 15521 F1 1520 F1	B1				
7 OR 201 F4/5 82 P1P3W,W6 P1W3 P1W3 8 OR 2502 F4/5 82 P1P3W,W6 P1W3 P1W3 SHELL 2530 N/A N/A N/A N/A N/A N/A N/A SHELL 2526 N/A N/A N/A N/A N/A N/A SHELC 2520 F1 B1 P1W3 S3/P1W3 P1W3 2HOUR OBSERVATION 251 F1 B1 P1W3 S3/P1W3 P1W3 2HOUR OBSERVATION 251 F1 B1 P1W3 S3/P1W3 P1W3 NOURISHMET 2514 F2 B1 P1W3 P1W3 P1W3 MEDICATION 2513 F2 B1 P1W3 P1W3 P1W3 PATIT 2518 F6 B3 P1W1 P1W1 W1 2HOUR OBSERVATION 2516 F1 B1 P1W3 P1W3 P1W3 PATIT 2518	P1,W3 P1,W3 P1,W3 P1,W3 N/A N/A N/A N/A N/A N/A N/A N/A P1,W3 P1,W3 P1 P1,W3 P1,W3 P1,W	P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 N/A N/A N/A N/A S3,P1,W3 P1,W3 P1,W3 P1,W3 S3,P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 <th>B2 P1,P3,W3,W6 P1,W3 P1,W3 P1,W3 B2 P1,P3,W3,W6 P1,W3 P1,W3 P1,W3 N/A N/A N/A N/A N/A N/A B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3</th> <th>7 OR 2501 8 OR 2502 SHELL 2530 SHELL 2526 PRE-POST 2521 PRE-POST 2520 23 HOUR OBSERVATION (ROOM 1) 2519 23 HOUR OBSERVATION (ROOM 2) 2517 NOURISHMENT 2514 SOILED 2525 MEDICATION 2513 PAT. TLT 2518 23 HOUR OBSERVATION 2516</th> <th>501 F4,F5 5502 F4,F5 5530 N/A 5526 N/A 5521 F1 5520 F1</th> <th></th> <th>sh Wall Finish T</th> <th>Wall Finish</th> <th></th> <th>sh B Wall Fi</th>	B2 P1,P3,W3,W6 P1,W3 P1,W3 P1,W3 B2 P1,P3,W3,W6 P1,W3 P1,W3 P1,W3 N/A N/A N/A N/A N/A N/A B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3	7 OR 2501 8 OR 2502 SHELL 2530 SHELL 2526 PRE-POST 2521 PRE-POST 2520 23 HOUR OBSERVATION (ROOM 1) 2519 23 HOUR OBSERVATION (ROOM 2) 2517 NOURISHMENT 2514 SOILED 2525 MEDICATION 2513 PAT. TLT 2518 23 HOUR OBSERVATION 2516	501 F4,F5 5502 F4,F5 5530 N/A 5526 N/A 5521 F1 5520 F1		sh Wall Finish T	Wall Finish		sh B Wall Fi
8 OR 2502 F4.F5 82 PLP3W3M6 PLW3 PLW3 SHELL 2530 N/A N/A N/A N/A N/A N/A SHELL 2526 N/A N/A N/A N/A N/A N/A PRE-POST 2521 F1 B1 PLW3 S3.PLW3 PLW3 23 HOUR OBSERVATION 2519 F1 B1 PLW3 S3.PLW3 PLW3 23 HOUR OBSERVATION 2517 F1 B1 PLW3 PLW3 PLW3 VAGOM 2) 2514 F2 B1 PLW3 PLW3 PLW3 SOLED 2525 F1 B1 PLW3 PLW3 PLW3 MEDICATION 2513 F2 B1 PLW3 PLW1 W1 23 HOUR OBSERVATION 2516 F1 B1 PLW3 PLW3 PLW3 MEDICATION 2518 F6 B3 PLW3 PLW3 PLW3 CORRIDOR 2506 <	P1,W3 P1,W3 N/A N/A N/A N/A N/A N/A P1,W3 P1,W3 P1,W3 <	P1,W3 P1,W3 P1,W3 N/A N/A N/A S3,P1,W3 P1,W3 P1,W3 S3,P1,W3 P1,W3 P1,W3 S3,P1,W3 P1,W3 P1,W3 S3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 W1 P1,W3 P1 P1 P1,W2 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 <th>B2 P1,P3,W3,W6 P1,W3 P1,W3 P1,W3 P1,W3 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 B1 P1,W3 S3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B3 P1,W1 P1,W1 W1 P1,W3 B1 P1,W3 S3 P1,W3 P1,W3 B1 P1,W3 S3 P1,W3 P1,W3 B1 S3 P1,W3 P1,W3 P1,W3</th> <th>8 OR 2502 SHELL 2530 SHELL 2526 PRE-POST 2521 PRE-POST 2520 23 HOUR OBSERVATION (ROOM 1) 2519 23 HOUR OBSERVATION (ROOM 2) 2517 NOURISHMENT 2514 SOILED 2525 MEDICATION 2513 PAT. TLT 2518 23 HOUR OBSERVATION 2516</th> <th>502 F4,F5 530 N/A 526 N/A 521 F1 520 F1</th> <th>B2</th> <th></th> <th></th> <th></th> <th></th>	B2 P1,P3,W3,W6 P1,W3 P1,W3 P1,W3 P1,W3 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 B1 P1,W3 S3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B3 P1,W1 P1,W1 W1 P1,W3 B1 P1,W3 S3 P1,W3 P1,W3 B1 P1,W3 S3 P1,W3 P1,W3 B1 S3 P1,W3 P1,W3 P1,W3	8 OR 2502 SHELL 2530 SHELL 2526 PRE-POST 2521 PRE-POST 2520 23 HOUR OBSERVATION (ROOM 1) 2519 23 HOUR OBSERVATION (ROOM 2) 2517 NOURISHMENT 2514 SOILED 2525 MEDICATION 2513 PAT. TLT 2518 23 HOUR OBSERVATION 2516	502 F4,F5 530 N/A 526 N/A 521 F1 520 F1	B2				
SHELL 2530 NA NA NA NA NA NA NA SHELL 256 NA NA NA NA NA NA NA PRE-POST 2521 F1 B1 P1,W3 S3,P1,W3 P1,W3 2HOUR OBSERVATION 2519 F1 B1 P1,W3 S3,P1,W3 P1,W3 2HOUR OBSERVATION 2517 F1 B1 P1,W3 S3,P1,W3 P1,W3 (ROOM 1) 2517 F1 B1 P1,W3 P1,W3 P1,W3 WOURSHMENT 2514 F2 B1 P1,W3 P1,W3 P1,W3 MEDICATION 2513 F2 B1 P1,W3 P1,W3 P1,W3 MEDICATION 2516 F1 B1 P1,W3 P1,W3 P1,W3 EVS 2511 F1 B1 S3 P1,W3 P1,W3 PRE-POST 208 F1 B1 S3 P1,W3 P1,W3 CORRIDOR <td>N/A N/A N/A N/A P1,W3 P1,W3 P1,W3</td> <td>N/A N/A N/A N/A N/A N/A N/A N/A S3,P1,W3 P1,W3 P1,W3 S3 P1,W3 P1,W3 S3,P1,W3 P1,W3 P1,W3 S3,P1,W3 P1,W3 P1,W3 S3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 W1 P1,W3 P1,W3 P1,W3 P1,W3 P1 P1 P1,W2 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 <!--</td--><td>N/A N/A N/A N/A N/A N/A B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 B1 P1,W3 S3 P1,W3 P1,W3 B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B3 P1,W1 P1,W1 W1 P1,W1 B1 P1,W3 S3 P1,W3 P1,W3 B1 S3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 <t< td=""><td>SHELL 2530 SHELL 2526 PRE-POST 2521 PRE-POST 2520 23 HOUR OBSERVATION (ROOM 1) 2519 23 HOUR OBSERVATION (ROOM 2) 2517 NOURISHMENT 2514 SOILED 2525 MEDICATION 2513 PAT. TLT 2518 23 HOUR OBSERVATION 2516</td><td>530 N/A 526 N/A 521 F1 520 F1</td><td>B2</td><td>P1,P3,W3,W6 P1,P3,W3,W6</td><td>P1,W3 P1,W3</td><td>P1,W3 P1,W3</td><td>P1,W3 P1,W3</td></t<></td></td>	N/A N/A N/A N/A P1,W3 P1,W3 P1,W3	N/A N/A N/A N/A N/A N/A N/A N/A S3,P1,W3 P1,W3 P1,W3 S3 P1,W3 P1,W3 S3,P1,W3 P1,W3 P1,W3 S3,P1,W3 P1,W3 P1,W3 S3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 W1 P1,W3 P1,W3 P1,W3 P1,W3 P1 P1 P1,W2 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 </td <td>N/A N/A N/A N/A N/A N/A B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 B1 P1,W3 S3 P1,W3 P1,W3 B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B3 P1,W1 P1,W1 W1 P1,W1 B1 P1,W3 S3 P1,W3 P1,W3 B1 S3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 <t< td=""><td>SHELL 2530 SHELL 2526 PRE-POST 2521 PRE-POST 2520 23 HOUR OBSERVATION (ROOM 1) 2519 23 HOUR OBSERVATION (ROOM 2) 2517 NOURISHMENT 2514 SOILED 2525 MEDICATION 2513 PAT. TLT 2518 23 HOUR OBSERVATION 2516</td><td>530 N/A 526 N/A 521 F1 520 F1</td><td>B2</td><td>P1,P3,W3,W6 P1,P3,W3,W6</td><td>P1,W3 P1,W3</td><td>P1,W3 P1,W3</td><td>P1,W3 P1,W3</td></t<></td>	N/A N/A N/A N/A N/A N/A B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 B1 P1,W3 S3 P1,W3 P1,W3 B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B3 P1,W1 P1,W1 W1 P1,W1 B1 P1,W3 S3 P1,W3 P1,W3 B1 S3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 <t< td=""><td>SHELL 2530 SHELL 2526 PRE-POST 2521 PRE-POST 2520 23 HOUR OBSERVATION (ROOM 1) 2519 23 HOUR OBSERVATION (ROOM 2) 2517 NOURISHMENT 2514 SOILED 2525 MEDICATION 2513 PAT. TLT 2518 23 HOUR OBSERVATION 2516</td><td>530 N/A 526 N/A 521 F1 520 F1</td><td>B2</td><td>P1,P3,W3,W6 P1,P3,W3,W6</td><td>P1,W3 P1,W3</td><td>P1,W3 P1,W3</td><td>P1,W3 P1,W3</td></t<>	SHELL 2530 SHELL 2526 PRE-POST 2521 PRE-POST 2520 23 HOUR OBSERVATION (ROOM 1) 2519 23 HOUR OBSERVATION (ROOM 2) 2517 NOURISHMENT 2514 SOILED 2525 MEDICATION 2513 PAT. TLT 2518 23 HOUR OBSERVATION 2516	530 N/A 526 N/A 521 F1 520 F1	B2	P1,P3,W3,W6 P1,P3,W3,W6	P1,W3 P1,W3	P1,W3 P1,W3	P1,W3 P1,W3
PRE-POST 221 F1 B1 P1,W3 S3,P1,W3 P1,W3 23 HOUR OBSERVATION 2519 F1 B1 P1,W3 S3,P1,W3 P1,W3 23 HOUR OBSERVATION 2519 F1 B1 P1,W3 S3,P1,W3 P1,W3 23 HOUR OBSERVATION 2517 F1 B1 P1,W3 S3 P1,W3 23 HOUR OBSERVATION 2517 F1 B1 P1,W3 P1,W3 P1,W3 SOLED 2525 F1 B1 P1,W3 P1,W3 P1,W3 MEDICATION 2513 F2 B1 P1,W3 P1,W3 P1,W3 23 HOUR OBSERVATION 2516 F1 B1 P1,W3 S3 P1,W3 24 HOUR OBSERVATION 2516 F1 B1 P1,W3 P1,W3 P1,W3 25 HOUR OBSERVATION 2516 F1 B1 S3 P1,W3 P1,W3 CORRIDOR 2508 F1 B1 S3 P1,W3 P1,W3 CORRIDOR	P1,W3 P1,W3 P1 P1,W2 P1,W3 P1,W3 P1,W3	S3,P1,W3 P1,W3 P1,W3 S3 P1,W3 P1,W3 S3,P1,W3 P1,W3 P1,W3 S3,P1,W3 P1,W3 P1,W3 S3 P1,W3 P1,W3 S3 P1,W3 P1,W3 S3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3	B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 B1 P1,W3 S3 P1,W3 P1,W3 B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 B1 P1,W3 S3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B3 P1,W1 P1,W3 P1,W3 P1,W3 B3 P1,W1 P1,W1 W1 P1,W3 B1 P1,W2 P1 P1 P1,W2 B1 S3 P1,W3 P1,W3 P1,W3 B1 S3 P1,W3 P1,W3 P1,W3 B1 S3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 </td <td>PRE-POST2521PRE-POST252023 HOUR OBSERVATION (ROOM 1)251923 HOUR OBSERVATION (ROOM 2)2517NOURISHMENT2514SOILED2525MEDICATION PAT. TLT251823 HOUR OBSERVATION 25162516</td> <td>521 F1 520 F1</td> <td>N/A</td> <td>N/A N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td>	PRE-POST2521PRE-POST252023 HOUR OBSERVATION (ROOM 1)251923 HOUR OBSERVATION (ROOM 2)2517NOURISHMENT2514SOILED2525MEDICATION PAT. TLT251823 HOUR OBSERVATION 25162516	521 F1 520 F1	N/A	N/A N/A	N/A	N/A	N/A
23 HOUR OBSERVATION (ROOM 1) 2519 F1 B1 P1,W3 S3,P1,W3 P1,W3 23 HOUR OBSERVATION (ROOM 2) 2517 F1 B1 P1,W3 S3 P1,W3 NOURISHMENT 2514 F2 B1 P1,W3 P1,W3 P1,W3 NOURISHMENT 2513 F2 B1 P1,W3 P1,W3 P1,W3 MEDICATION 2513 F2 B1 P1,W3 P1,W3 P1,W3 MEDICATION 2518 F6 B3 P1,W1 W1 W1 23 HOUR OBSERVATION 2516 F1 B1 P1,W3 S3 P1,W3 EVS 2511 F1 B1 P1,W3 S3 P1,W3 EVS 2504 F5 B2 P1,W3 P1,W3 P3,W6 CORRIDOR 2505 F5 B2 P1,W3 P1,W3 P1,W3 CORRIDOR 2510 F2 B1 P1,W3 P1,W7 P1,W3 CORRIDOR 2516	P1,W3 P1,W3 W1 P1,W3 P1,W3	S3,P1,W3 P1,W3 P1,W3 S3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 W1 P1,W3 P1,W1 W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3	B1 P1,W3 S3,P1,W3 P1,W3 P1,W3 B1 P1,W3 S3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B3 P1,W1 P1,W1 W1 P1,W3 B1 P1,W3 S3 P1,W3 P1,W3 B1 P1,W2 P1 P1 P1,W3 B1 P1,W2 P1 P1 P1,W3 B1 S3 P1,W3 P1,W3 P1,W3 B1 S3 P1,W3 P1,W3 P1,W3 B2 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3	23 HOUR OBSERVATION (ROOM 1)251923 HOUR OBSERVATION (ROOM 2)2517NOURISHMENT2514SOILED2525MEDICATION PAT. TLT251323 HOUR OBSERVATION 25162516		B1	P1,W3	S3,P1,W3	P1,W3	P1,W3
23 HOUR OBSERVATION (ROOM 2) 2517 F1 B1 P1,W3 S3 P1,W3 NOURISHMENT 2514 F2 B1 P1,W3 P1,W3 P1,W3 SOILED 2525 F1 B1 P1,W3 P1,W3 P1,W3 PAT. LT 2513 F2 B1 P1,W3 P1,W3 P1,W3 PAT. LT 2516 F1 B1 P1,W3 S3 P1,W3 23 HOUR OBSERVATION 2516 F1 B1 P1,W3 S3 P1,W3 EVS 2511 F1 B1 P1,W3 S3 P1,W3 PRE-POST 2509 F1 B1 S3 P1,W3 P1,W3 CORRIDOR 2504 F5 B2 P1,W3 P1,W3 P1,W3 CORRIDOR 2506 F5 B2 P1,W3 P1,W3 P1,W3 NURSE STATION 2515 F1 B1 P3,W3 P1,W3 P1,W3 ORRIDOR 2522 F6,F7 B3	P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1 P1,W2 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P3,W6 P1,W1 P1,W3 P1,W3 P1,W3 - W4 W4 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P	P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 W1 P1,W3 P1,W1 W1 P1,W3 P1,W1 W1 P1,W3 P1,W3 P1,W3 P1,W3 P1 P1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W7 P1,W3 P1,W3 P1,W7 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3	B1 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 B3 P1,W1 P1,W1 W1 P1,W3 B1 P1,W3 S3 P1,W3 P1,W3 B1 P1,W3 S3 P1,W3 P1,W3 B1 P1,W2 P1 P1 P1,W2 B1 S3 P1,W3 P1,W3 P1,W3 B1 S3 P1,W3 P1,W3 P1,W3 B1 S3 P1,W3 P1,W3 P1,W3 B2 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W7 P1,W3 P1,W3 B1 P1,W3 P1,W7 P1,W3 P1,W3 B1 P1,W3 P1 P1 P1,W3 B1 P1,W3 P1 P1 P1,W3 B1 P1,W3 P1,W3	23 HOUR OBSERVATION (ROOM 2)2517NOURISHMENT2514SOILED2525MEDICATION2513PAT. TLT251823 HOUR OBSERVATION2516		B1	P1,W3	S3,P1,W3	P1,W3	P1,W3
NOURISHMENT 2514 F2 B1 P1,W3 P1,W3 P1,W3 P1,W3 SOILED 2525 F1 B1 P1,W3 P1,W3 P1,W3 P1,W3 MEDICACTION 2513 F2 B1 P1,W3 P1,W3 P1,W3 P1,W3 PAT. TLT 2518 F6 B3 P1,W1 P1,W1 W1 23 HOUR OBSERVATION 2516 F1 B1 P1,W2 P1 P1 24 HOUR OBSERVATION 2516 F1 B1 S3 P1,W3 P1,W3 EVS 2511 F1 B1 S3 P1,W3 P1,W3 PRE-POST 2508 F1 B1 S3 P1,W3 P1,W3 CORRIDCR 2505 F5 B2 P1,W3 P1,W3 P1,W3 CORRIDOR 2510 F2 B1 P1,W3 P1,W7 P1,W3 CORRIDOR 2515 F1 B1 P3,W3 P1,W7 P1,W3 CORRIDOR	P1,W3 P1,W3 P1,W3 P1,W3 W1 P1,W3 P1,W3 P1,W3 P3,W6 P1,W3 P1,W3 P1 P1,W3 P1 P1,W3 P1 P1,W3 P1 P1,W3 P1 P1,W3 P1 P1,W3 P1 <td>P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 W1 P1,W1 S3 P1,W3 P1,W3 P1 P1 P1,W3 P1 P1 P1,W3 P1 P1 P1,W3 P1 P1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W7 P1,W3 P1,W3 P4,W3 P1,W7 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 - P4 W4 W4 - P3,W6 - P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W</td> <td>B1 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 B3 P1,W1 P1,W1 W1 P1,W1 P1,W1 B1 P1,W3 S3 P1,W3 P1,W3 P1,W3 B1 P1,W3 S3 P1,W3 P1,W3 P1,W3 B1 S3 P1,W3 P1,W3 P1,W3 P1,W3 B1 S3 P1,W3 P1,W3 P1,W3 P1,W3 B2 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 B2 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3</td> <td>NOURISHMENT2514SOILED2525MEDICATION2513PAT. TLT251823 HOUR OBSERVATION2516</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 W1 P1,W1 S3 P1,W3 P1,W3 P1 P1 P1,W3 P1 P1 P1,W3 P1 P1 P1,W3 P1 P1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W7 P1,W3 P1,W3 P4,W3 P1,W7 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 - P4 W4 W4 - P3,W6 - P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W	B1 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 B3 P1,W1 P1,W1 W1 P1,W1 P1,W1 B1 P1,W3 S3 P1,W3 P1,W3 P1,W3 B1 P1,W3 S3 P1,W3 P1,W3 P1,W3 B1 S3 P1,W3 P1,W3 P1,W3 P1,W3 B1 S3 P1,W3 P1,W3 P1,W3 P1,W3 B2 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 B2 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3	NOURISHMENT2514SOILED2525MEDICATION2513PAT. TLT251823 HOUR OBSERVATION2516						
MEDICATION 2513 F2 B1 P1,W3 P1,W3 P1,W3 PAT. TLT 2518 F6 B3 P1,W1 P1,W1 W1 23 HOUR OBSERVATION 2516 F1 B1 P1,W3 S3 P1,W3 23 HOUR OBSERVATION 2516 F1 B1 P1,W3 S3 P1,W3 EVS 2511 F1 B1 S3 P1,W3 P1,W3 PRE-POST 2509 F1 B1 S3 P1,W3 P1,W3 CORRIDOR 2504 F5 B2 P1,W3 P1,W3 P1,W3 CORRIDOR 2510 F2 B1 P1,W3 P1,W3 P1,W3 NURSE STATION 2515 F1 B1 P3,W3 P1,W3 P1,W7 CORRIDOR 2510 F2 B1 - P1,W3 P1,W3 OURDOR 2512 F1 B1 P1,W3 P1,W3 P1,W3 CORRIDOR 2522 F6,F7 B3	P1,W3 P1,W3 W1 P1,W1 P1,W3 P1,W3 P1 P1,W3 P1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P3,W6 P1,W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W7 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 W1 W4 W4 P1,W3 - P1,W3 P1,W3 P1,W3	P1,W3 P1,W3 P1,W3 P1,W1 W1 P1,W1 S3 P1,W3 P1,W3 P1 P1 P1,W3 P1 P1 P1,W3 P1 P1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P3,W6 P1,W1 P1,W3 P3,W6 P1,W1 P1,W3 P1,W3 P1,W3 P1,W1 P1,W3 P1 W4 W4 W4 - P3,W6 - P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 <	B1 P1,W3 P1,W3 P1,W3 P1,W3 B3 P1,W1 P1,W1 W1 P1,W1 B1 P1,W3 S3 P1,W3 P1,W3 B1 P1,W2 P1 P1 P1,W3 B1 S3 P1,W3 P1,W3 P1,W3 B2 P1,W3 P1,W3 P1,W3 P1,W3 B2 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3	MEDICATION2513PAT. TLT251823 HOUR OBSERVATION2516						
23 HOUR OBSERVATION 2516 F1 B1 P1,W3 S3 P1,W3 EVS 2511 F1 B1 P1,W2 P1 P1 PRE-POST 2509 F1 B1 S3 P1,W3 P1,W3 PRE-POST 2508 F1 B1 S3 P1,W3 P1,W3 CORRIDOR 2504 F5 B2 P1,W3 P1,W3 P1,W3 EQUIPMENT STORAGE 2505 F5 B2 P1,W3 P1,W3 P1,W3 CORRIDOR 2510 F2 B1 P1,W3 P1,W7 P1,W3 NURSE STATION 2515 F1 B1 P3,W3 P1 P1 CORRIDOR 2528 F2 B1 - P4,W3 P1,W3 PATIENT TLT/SHOWER 2522 F6,F7 B3 P1,W1 P1,W1 P1,W3 PATIENT DOCKING 2506 F3 B4 W4 W4 W4 CORRIDOR 2523 F1,F2 B1	P1,W3 P1,W3 P1 P1,W2 P1,W3 P1,W3 P1,W3 P1,W3 P3,W6 P1,W1 P1,W3 P1,W3 P3,W6 P1,W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W7 P1,W3 P1,W3 - W5 P4 P3,W6 - P3,W6 - P3,W6 - P1,W3 - P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3	S3 P1,W3 P1,W3 P1 P1 P1,W2 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P3,W6 P1,W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W7 P1,W3 P1,W3 P4,W3 P1,W7 P1,W3 P4,W3 P1,W7 P1,W3 P1,W3 P1,W7 P1,W3 P1,W3 P1,W7 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 P1,W1 W1 W4 W4 W4 - P3,W6 - P1,W3 P3,W6 - P1,W3 P1,W3 - W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3	B1P1,W3S3P1,W3P1,W3B1P1,W2P1P1P1,W2B1S3P1,W3P1,W3P1,W3B1S3P1,W3P1,W3P1,W3B2P1,W3P1,W3P1,W3P1,W3B1P1,W3P1,W3P1,W3P1,W3B1P1,W3P1,W3P1,W3P1,W3B1P1,W3P1,W7P1,W3P1,W3B1P3,W3P1P1P1,W3B1-P4,W3P1,W7P1,W3B1-P1,W3P1,W3P1,W3B1-P1,W3P1,W3P1,W3B1P1,W3P1,W3P1,W3P1,W3B1P1,W3P1,W3P1,W3B1P1,W3P1,W3P1,W3B2P1,W3P1,W1P1,W3B3P1,W3P1,W3P1,W3B4W4W4W4B5P1,W3P1,W3P1,W3B6P1,W3P1,W3P1,W3P1,W3B1P1,W3P1,W3P1,W3P1,W3B1P1,W3P1,W3P1,W3P1,W3B2P1,W3P1,W3P1,W3P1,W3B3P1,W3P1,W3P1,W3P1,W3B4W4W4W4W4B4W4W4W4B4W4W4W4B4W4W4W4B4W4W4W4B4W4W4W4B4	23 HOUR OBSERVATION 2516	513 F2	B1	P1,W3	P1,W3	P1,W3	P1,W3
PRE-POST 2509 F1 B1 S3 P1,W3 P1,W3 PRE-POST 2508 F1 B1 S3 P1,W3 P1,W3 CORRIDOR 2504 F5 B2 P1,W3 P1,W3 P3,W6 EQUIPMENT STORAGE 2505 F5 B2 P1,W3 P1,W3 P1,W3 CORRIDOR 2510 F2 B1 P1,W3 P1,W7 P1,W3 NURSE STATION 2515 F1 B1 P3,W3 P1 P1 CORRIDOR 2512 F1 B1 P3,W3 P1,W7 P1,W3 NURSE STATION 2515 F1 B1 P3,W3 P1 P1 CORRIDOR 2528 F2 B1 - P4,W3 P1,W7 ORNEDOR 2528 F2 B1 P1,W3 P1,W3 P1,W3 PATIENT TLT/SHOWER 2522 F6,F7 B3 P1,W4 W4 W4 CORRIDOR 2506 F3 B4	P1,W3 P1,W3 P1,W3 P1,W3 P3,W6 P1,W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1 P1,W3 P1,W7 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 W1 W4 W4 P1,W3 - W5 P4 P3,W6 - P3,W6 P1,W3 P1,W3 - P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3	P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P3,W6 P1,W1 P1,W3 P3,W6 P1,W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W7 P1,W3 P1,W3 P1 P1 P1,W3 P4,W3 P1,W7 P1,W3 P4,W3 P1,W7 P1,W3 P1,W3 P1,W7 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 P1,W1 W1 W4 W4 W4 - P3,W6 - P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 - W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 <td>B1S3P1,W3P1,W3P1,W3B1S3P1,W3P1,W3P1,W3B2P1,W3P1,W3P3,W6P1,W1B2P1,W3P1,W3P1,W3P1,W3B1P1,W3P1,W7P1,W3P1,W3B1P3,W3P1P1P1,W3B1-P4,W3P1,W7P1,W3B1-P4,W3P1,W7P1,W3B1-P1,W3P1,W7P1,W3B1P1,W3P1,W3P1,W3P1,W3B1P1,W3P1,W3P1,W3P1,W3B3P1,W1P1,W3P1,W3P1,W3B4W4W4W4W4B2P1,W3P4W5P4B2P1,W3P1,W3P3,W6-B2P1,W3P1,W3P1,W3P1,W3B3P1,W1W1P1,W3P1,W3B4W4W4W4W4B4W4W4W4B4W4W4W4B4W4W4W4B4W4W4W4B4W4W4W4B4W4W4W4B4W4W4W4B4W4W4W4B4W4W4W4B4W4W4W4</td> <td>EVS 2511</td> <td>516 F1</td> <td>B1</td> <td>P1,W3</td> <td>S3</td> <td>P1,W3</td> <td>P1,W3</td>	B1S3P1,W3P1,W3P1,W3B1S3P1,W3P1,W3P1,W3B2P1,W3P1,W3P3,W6P1,W1B2P1,W3P1,W3P1,W3P1,W3B1P1,W3P1,W7P1,W3P1,W3B1P3,W3P1P1P1,W3B1-P4,W3P1,W7P1,W3B1-P4,W3P1,W7P1,W3B1-P1,W3P1,W7P1,W3B1P1,W3P1,W3P1,W3P1,W3B1P1,W3P1,W3P1,W3P1,W3B3P1,W1P1,W3P1,W3P1,W3B4W4W4W4W4B2P1,W3P4W5P4B2P1,W3P1,W3P3,W6-B2P1,W3P1,W3P1,W3P1,W3B3P1,W1W1P1,W3P1,W3B4W4W4W4W4B4W4W4W4B4W4W4W4B4W4W4W4B4W4W4W4B4W4W4W4B4W4W4W4B4W4W4W4B4W4W4W4B4W4W4W4B4W4W4W4	EVS 2511	516 F1	B1	P1,W3	S3	P1,W3	P1,W3
CORRIDOR 2504 F5 B2 P1,W3 P1,W3 P3,W6 EQUIPMENT STORAGE 2505 F5 B2 P1,W3 P1,W3 P1,W3 CORRIDOR 2510 F2 B1 P1,W3 P1,W7 P1,W3 NURSE STATION 2515 F1 B1 P3,W3 P1 P1 CORRIDOR 2512 F1 B1 P3,W3 P1 P1,W7 CORRIDOR 2512 F1 B1 P3,W3 P1 P1 CORRIDOR 2512 F1 B1 P3,W3 P1,W7 P1,W3 CORRIDOR 2528 F2 B1 - P4,W3 P1,W3 - SOILED HOLD 2406 F1 B1 P1,W3 P1,W3 P1,W3 - NEPTUNE DOCKING 2506 F3 B4 W4 W4 W4 W4 CORRIDOR 2503 F1,F2 B1 P1,W3 - P3,W6 CORRIDOR 2503 <td>P3,W6 P1,W1 P1,W3 P1,W3 P1,W3 P1,W3 P1 P1,W3 P1,W7 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 W1 W4 W4 P1,W3 - W5 P4 P3,W6 - P3,W6 - P1,W3 - P1,W3 - P1,W3 P1,W3 P1,W3 W4</td> <td>P1,W3 P3,W6 P1,W1 P1,W3 P1,W3 P1,W3 P1,W7 P1,W3 P1,W3 P1 P1 P1,W3 P4,W3 P1,W7 P1,W3 P4,W3 P1,W7 P1,W3 P1,W3 P1,W7 P1,W3 P1,W3 P1,W7 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 P1,W1 W1 W4 W4 W4 - P3,W6 - P1,W3 P3,W6 P1,W3 P1,W3 P3,W6 P1,W3 P1,W3 P1,W3 - W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 W4 W4</td> <td>B2 P1,W3 P1,W3 P3,W6 P1,W1 B2 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W7 P1,W3 P1,W3 B1 P3,W3 P1 P1 P1,W3 B1 P3,W3 P1 P1 P1,W3 B1 - P4,W3 P1,W7 P1,W3 B1 - P1,W3 P1,W3 P1,W3 B1 - P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B3 P1,W1 P1,W3 P1,W3 P1,W3 B4 W4 W4 W4 W4 B1 P1,W3 P1,W3 P1,W3 P1 B2 P1,W3 P1,W3 P1,W3 P1,W3 B2 P1,W3 P1,W3 P1,W3 P1,W3 B3 P1,W1 W1 P1,W3</td> <td>PRE-POST 2509</td> <td>509 F1</td> <td>B1</td> <td>S3</td> <td>P1,W3</td> <td>P1,W3</td> <td>P1,W3</td>	P3,W6 P1,W1 P1,W3 P1,W3 P1,W3 P1,W3 P1 P1,W3 P1,W7 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 W1 W4 W4 P1,W3 - W5 P4 P3,W6 - P3,W6 - P1,W3 - P1,W3 - P1,W3 P1,W3 P1,W3 W4	P1,W3 P3,W6 P1,W1 P1,W3 P1,W3 P1,W3 P1,W7 P1,W3 P1,W3 P1 P1 P1,W3 P4,W3 P1,W7 P1,W3 P4,W3 P1,W7 P1,W3 P1,W3 P1,W7 P1,W3 P1,W3 P1,W7 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 P1,W1 W1 W4 W4 W4 - P3,W6 - P1,W3 P3,W6 P1,W3 P1,W3 P3,W6 P1,W3 P1,W3 P1,W3 - W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 W4 W4	B2 P1,W3 P1,W3 P3,W6 P1,W1 B2 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W7 P1,W3 P1,W3 B1 P3,W3 P1 P1 P1,W3 B1 P3,W3 P1 P1 P1,W3 B1 - P4,W3 P1,W7 P1,W3 B1 - P1,W3 P1,W3 P1,W3 B1 - P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B3 P1,W1 P1,W3 P1,W3 P1,W3 B4 W4 W4 W4 W4 B1 P1,W3 P1,W3 P1,W3 P1 B2 P1,W3 P1,W3 P1,W3 P1,W3 B2 P1,W3 P1,W3 P1,W3 P1,W3 B3 P1,W1 W1 P1,W3	PRE-POST 2509	509 F1	B1	S3	P1,W3	P1,W3	P1,W3
CORRIDOR 2510 F2 B1 P1,W3 P1,W7 P1,W3 NURSE STATION 2515 F1 B1 P3,W3 P1 P1 CORRIDOR 2512 F1 B1 - P4,W3 P1,W7 CORRIDOR 2528 F2 B1 - P1,W3 - SOILED HOLD 2406 F1 B1 P1,W3 P1,W3 P1,W3 PATIENT TLT/SHOWER 2522 F6,F7 B3 P1,W1 P1,W1 P1,W3 NEPTUNE DOCKING 2506 F3 B4 W4 W4 W4 CORRIDOR 2523 F1,F2 B1 P1,W3 - P1,W3 INTAKE 2529 F2 B1 P4,W3 P4 W5 CORRIDOR 2503 F4,F5 B2 P1,W3 - P3,W6 CORRIDOR 2500 F5 B2 P1,W3 P1,W3 P1,W3 STAFF TLT 2507 F6 B3 P1,W3 </th <td>P1,W3 P1,W3 P1 P1,W3 P1,W7 P1,W3 P1,W7 P1,W3 - P4,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 W1 W4 W4 P1,W3 - W5 P4 P3,W6 - P3,W6 P1,W3 P1,W3 - P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 W4 W4</td> <td>P1,W7 P1,W3 P1,W3 P1 P1 P1,W3 P4,W3 P1,W7 P1,W3 P1,W3 - P4,W3 P1,W3 - P4,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 P1,W1 W1 W4 W4 W4 - P1,W3 - P4 W5 P4 - P3,W6 - P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 - W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 W4 W4 W4</td> <td>B1 P1,W3 P1,W7 P1,W3 P1,W3 B1 P3,W3 P1 P1 P1,W3 B1 - P4,W3 P1,W7 P1,W3 B1 - P4,W3 P1,W7 P1,W3 B1 - P1,W3 P1,W3 P1,W3 B1 - P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B3 P1,W1 P1,W3 P1,W3 P1,W3 B4 W4 W4 W4 W4 B1 P1,W3 - P1,W3 - B1 P1,W3 - P1,W3 - B1 P1,W3 P4 W4 W4 B2 P1,W3 P4 W5 P4 B2 P1,W3 P1,W3 P1,W3 - B3 P1,W1 W1 P1,W3 - B3 P1,W3 P1,W3 P1,W3 P1,W3 B1<td>CORRIDOR 2504</td><td>504 F5</td><td>B2</td><td>P1,W3</td><td>P1,W3</td><td>P3,W6</td><td>P1,W1</td></td>	P1,W3 P1,W3 P1 P1,W3 P1,W7 P1,W3 P1,W7 P1,W3 - P4,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 W1 W4 W4 P1,W3 - W5 P4 P3,W6 - P3,W6 P1,W3 P1,W3 - P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 W4 W4	P1,W7 P1,W3 P1,W3 P1 P1 P1,W3 P4,W3 P1,W7 P1,W3 P1,W3 - P4,W3 P1,W3 - P4,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 P1,W1 W1 W4 W4 W4 - P1,W3 - P4 W5 P4 - P3,W6 - P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 - W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 W4 W4 W4	B1 P1,W3 P1,W7 P1,W3 P1,W3 B1 P3,W3 P1 P1 P1,W3 B1 - P4,W3 P1,W7 P1,W3 B1 - P4,W3 P1,W7 P1,W3 B1 - P1,W3 P1,W3 P1,W3 B1 - P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B3 P1,W1 P1,W3 P1,W3 P1,W3 B4 W4 W4 W4 W4 B1 P1,W3 - P1,W3 - B1 P1,W3 - P1,W3 - B1 P1,W3 P4 W4 W4 B2 P1,W3 P4 W5 P4 B2 P1,W3 P1,W3 P1,W3 - B3 P1,W1 W1 P1,W3 - B3 P1,W3 P1,W3 P1,W3 P1,W3 B1 <td>CORRIDOR 2504</td> <td>504 F5</td> <td>B2</td> <td>P1,W3</td> <td>P1,W3</td> <td>P3,W6</td> <td>P1,W1</td>	CORRIDOR 2504	504 F5	B2	P1,W3	P1,W3	P3,W6	P1,W1
CORRIDOR 2512 F1 B1 - P4,W3 P1,W7 CORRIDOR 2528 F2 B1 - P1,W3 - SOILED HOLD 2406 F1 B1 P1,W3 P1,W3 P1,W3 PATIENT TLT/SHOWER 2522 F6,F7 B3 P1,W1 P1,W1 P1,W1 NEPTUNE DOCKING 2506 F3 B4 W4 W4 W4 CORRIDOR 2523 F1,F2 B1 P1,W3 - P1,W3 INTAKE 2529 F2 B1 P4,W3 P4 W5 CORRIDOR 2503 F4,F5 B2 P1,W3 - P3,W6 CORRIDOR 2500 F5 B2 P1,W3 P1,W3 P3,W6 CORRIDOR 2500 F5 B2 P1,W3 P1,W3 P3,W6 CORRIDOR 2500 F5 B2 P1,W3 P1,W3 P1,W3 STAFF TLT 2507 F6 B3 P1,W3<	P1,W7 P1,W3 - P4,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 W1 W4 W4 P1,W3 - W5 P4 P3,W6 - P1,W3 - P1,W3 - P1,W3 - P3,W6 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 W4 W4 W4 W4 W4 W4	P4,W3 P1,W7 P1,W3 P1,W3 - P4,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 P1,W1 W1 W4 W4 W4 - P1,W3 - P4 W5 P4 - P3,W6 - P1,W3 P3,W6 P1,W3 P1,W3 P1,W3 - W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 W4 W4 W4 W4 W4 W4	B1 - P4,W3 P1,W7 P1,W3 B1 - P1,W3 - P4,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B3 P1,W1 P1,W1 P1,W1 W1 B4 W4 W4 W4 W4 B1 P1,W3 - P1,W3 - B1 P1,W3 - P1,W1 W1 B4 W4 W4 W4 W4 B1 P1,W3 - P1,W3 - B1 P1,W3 - P1,W3 - B2 P1,W3 P4 W5 P4 B2 P1,W3 P1,W3 P1,W3 - B2 P1,W3 P1,W3 P1,W3 - B3 P1,W1 W1 P1,W3 - B3 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B1 P	CORRIDOR 2510	510 F2	B1	P1,W3	P1,W7	P1,W3	P1,W3
SOILED HOLD 2406 F1 B1 P1,W3 P1,W3 P1,W3 PATIENT TLT/SHOWER 2522 F6,F7 B3 P1,W1 P1,W1 P1,W1 NEPTUNE DOCKING 2506 F3 B4 W4 W4 W4 CORRIDOR 2523 F1,F2 B1 P1,W3 - P1,W3 INTAKE 2529 F2 B1 P4,W3 P4 W5 CORRIDOR 2503 F4,F5 B2 P1,W3 - P3,W6 CORRIDOR 2500 F5,F8 B2 P1,W3 P1,W3 P3,W6 CORRIDOR 2500 F5,F8 B2 P1,W3 P1,W3 P1,W3 STAFF TLT 2507 F6 B3 P1,W1 W1 P1,W3 BED STORAGE 2531 F1 B1 P1,W3 P1,W3 P1,W3 VENDORS WORKROOM 2532 F1 B1 P1,W3 P1,W3 P1,W3 CNTRL PROC CLN 2402 F3	P1,W3 P1,W3 P1,W1 W1 W4 W4 P1,W3 - W5 P4 P3,W6 - P3,W6 P1,W3 P1,W3 - P3,W6 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 W4 W4 W4 W4	P1,W3 P1,W3 P1,W3 P1,W1 P1,W1 W1 W4 W4 W4 - P1,W3 - P4 W5 P4 - P3,W6 - P1,W3 P3,W6 P1,W3 P1,W3 P3,W6 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 W4 W4 W4 W4 W4	B1 P1,W3 P1,W3 P1,W3 P1,W3 B3 P1,W1 P1,W1 P1,W1 W1 B4 W4 W4 W4 W4 B1 P1,W3 - P1,W3 - B1 P1,W3 - P1,W3 - B1 P4,W3 P4 W5 P4 B2 P1,W3 - P3,W6 - B2 P1,W3 P1,W3 P1,W3 P1,W3 B3 P1,W1 W1 P1,W3 P1,W1 B1 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B4 W4 W4 W4 W4 W4 B4 W4 W4 W4 W4 W	CORRIDOR 2512	512 F1	B1	-	P4,W3	P1,W7	P1,W3
NEPTUNE DOCKING 2506 F3 B4 W4 W4 W4 CORRIDOR 2523 F1,F2 B1 P1,W3 - P1,W3 INTAKE 2529 F2 B1 P4,W3 P4 W5 CORRIDOR 2503 F4,F5 B2 P1,W3 - P3,W6 CORRIDOR 42 F5,F8 B2 P1,W3 P1,W3 P3,W6 CORRIDOR 2500 F5 B2 P1,W3 P1,W3 P3,W6 CORRIDOR 2500 F5 B2 P1,W3 P1,W3 P3,W6 STAFF TLT 2507 F6 B3 P1,W1 W1 P1,W3 BED STORAGE 2531 F1 B1 P1,W3 P1,W3 P1,W3 VENDORS WORKROOM 2532 F1 B1 P1,W3 P1,W3 P1,W3 CNTRL PROC CLN 2402 F3 B4 W4 W4 W4 DECON 2400 F3 B4 W4	W4 W4 P1,W3 - W5 P4 P3,W6 - P3,W6 P1,W3 P1,W3 - P1,W3 P1,W3 P1,W3 P1,W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 W4 W4 W4 W4	W4 W4 W4 - P1,W3 - P4 W5 P4 - P3,W6 - P1,W3 P3,W6 P1,W3 P1,W3 P1,W3 - W1 P1,W1 P1,W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 V1 W4 W4 W4 W4 W4	B4 W4 W4 W4 W4 B1 P1,W3 - P1,W3 - B1 P4,W3 P4 W5 P4 B2 P1,W3 - P3,W6 - B2 P1,W3 P1,W3 P1,W3 - B2 P1,W3 P1,W3 P1,W3 - B3 P1,W1 W1 P1,W1 P1,W1 B1 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B4 W4 W4 W4 W4 B4 W4 W4 W4 W4	SOILED HOLD 2406	406 F1	B1	P1,W3	P1,W3	P1,W3	P1,W3
INTAKE 2529 F2 B1 P4,W3 P4 W5 CORRIDOR 2503 F4,F5 B2 P1,W3 - P3,W6 CORRIDOR 42 F5,F8 B2 P1,W3 P1,W3 P3,W6 CORRIDOR 2500 F5 B2 P1,W3 P1,W3 P3,W6 CORRIDOR 2500 F5 B2 P1,W3 P1,W3 P1,W3 STAFF TLT 2507 F6 B2 P1,W1 W1 P1,W3 BED STORAGE 2531 F1 B1 P1,W3 P1,W3 P1,W3 VENDORS WORKROOM 2532 F1 B1 P1,W3 P1,W3 P1,W3 CNTRL PROC CLN 2402 F3 B4 W4 W4 W4 DECON 2400 F3 B4 W4 W4 W4	W5 P4 P3,W6 - P3,W6 P1,W3 P1,W3 - P1,W3 P1,W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 W4 W4 W4 W4	P4 W5 P4 - P3,W6 - P1,W3 P3,W6 P1,W3 P1,W3 P1,W3 - W1 P1,W1 P1,W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 W4 W4 W4 W4 W4 W4	B1 P4,W3 P4 W5 P4 B2 P1,W3 - P3,W6 - B2 P1,W3 P1,W3 P3,W6 P1,W3 B2 P1,W3 P1,W3 P3,W6 P1,W3 B2 P1,W3 P1,W3 P3,W6 P1,W3 B2 P1,W3 P1,W3 P1,W3 - B3 P1,W1 W1 P1,W1 P1,W1 B1 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B4 W4 W4 W4 W4 B4 W4 W4 W4 W4	NEPTUNE DOCKING 2506	506 F3	B4	W4		W4	
CORRIDOR 2503 F4,F5 B2 P1,W3 - P3,W6 CORRIDOR 42 F5,F8 B2 P1,W3 P1,W3 P3,W6 CORRIDOR 2500 F5 B2 P1,W3 P1,W3 P1,W3 STAFF TLT 2507 F6 B3 P1,W1 W1 P1,W3 BED STORAGE 2531 F1 B1 P1,W3 P1,W3 P1,W3 VENDORS WORKROOM 2532 F1 B1 P1,W3 P1,W3 P1,W3 CNTRL PROC CLN 2402 F3 B4 W4 W4 W4 DECON 2400 F3 B4 W4 W4 W4	P3,W6 - P3,W6 P1,W3 P1,W3 - P1,W1 P1,W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 W4 W4 W4 W4	- P3,W6 - P1,W3 P3,W6 P1,W3 P1,W3 P1,W3 - W1 P1,W1 P1,W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 W4 W4 W4 W4 W4 W4	B2 P1,W3 - P3,W6 - B2 P1,W3 P1,W3 P3,W6 P1,W3 B2 P1,W3 P1,W3 P1,W3 - B3 P1,W1 W1 P1,W1 P1,W1 B1 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B4 W4 W4 W4 W4 B4 W4 W4 W4 W4	INTAKE 2529	529 F2	B1	P4,W3	- P4	W5	- P4
CORRIDOR 2500 F5 B2 P1,W3 P1,W3 P1,W3 STAFF TLT 2507 F6 B3 P1,W1 W1 P1,W1 BED STORAGE 2531 F1 B1 P1,W3 P1,W3 P1,W3 VENDORS WORKROOM 2532 F1 B1 P1,W3 P1,W3 P1,W3 CNTRL PROC CLN 2402 F3 B4 W4 W4 W4 DECON 2400 F3 B4 W4 W4 W4	P1,W3 - P1,W1 P1,W1 P1,W3 P1,W3 P1,W3 P1,W3 W4 W4 W4 W4	P1,W3 P1,W3 - W1 P1,W1 P1,W1 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 W4 W4 W4 W4 W4 W4	B2 P1,W3 P1,W3 P1,W3 - B3 P1,W1 W1 P1,W1 P1,W1 B1 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B4 W4 W4 W4 W4 B4 W4 W4 W4 W4	CORRIDOR 2503	503 F4,F5	B2	P1,W3	-	P3,W6	-
BED STORAGE 2531 F1 B1 P1,W3 P1,W3 P1,W3 VENDORS WORKROOM 2532 F1 B1 P1,W3 P1,W3 P1,W3 CNTRL PROC CLN 2402 F3 B4 W4 W4 W4 STER STO 2404 F3 B4 W4 W4 W4 DECON 2400 F3 B4 W4 W4 W4	P1,W3 P1,W3 P1,W3 P1,W3 W4 W4 W4 W4	P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 P1,W3 W4 W4 W4 W4 W4 W4	B1 P1,W3 P1,W3 P1,W3 P1,W3 B1 P1,W3 P1,W3 P1,W3 P1,W3 B4 W4 W4 W4 W4 B4 W4 W4 W4 W4	CORRIDOR 2500	500 F5	B2	P1,W3	P1,W3	P1,W3	-
CNTRL PROC CLN 2402 F3 B4 W4 W4 W4 STER STO 2404 F3 B4 W4 W4 W4 DECON 2400 F3 B4 W4 W4 W4	W4 W4 W4 W4	W4 W4 W4 W4 W4 W4	B4 W4 W4 W4 W4 B4 W4 W4 W4 W4	BED STORAGE 2531	531 F1	B1	P1,W3	P1,W3	P1,W3	P1,W3
DECON 2400 F3 B4 W4 W4 W4				CNTRL PROC CLN 2402	402 F3	B4	W4	W4	W4	W4
				DECON 2400	400 F3					
				ELEC. 2527	527					

	KEY - FINISH						
Key Name	Finish - Description	Finish - Manufacturer	Finish - Name	Finish - Color	Finish - Comments	VCBO Finish Sorting	VCBO Finish Title
FLOOR							
F1	RESILIENT SHEET	MANNINGTON COMMERCIAL	STREAMLINE	EXEMPLAR PD213		1-FLOOR	FLOOR
F2	RESILIENT SHEET	MANNINGTON COMMERCIAL	FLOW	EXAMPLAR PD313		1-FLOOR	FLOOR
F3	QUARRY TILE	DALTILE	QUARRY TILE	0Q62 ARID GRAY	6" X 6", GROUT: TBD	1-FLOOR	FLOOR
F4	RUBBER SHEET	NORA RUBBER	NORAPLAN SENTICA	6505 SILK	3MM THICK	1-FLOOR	FLOOR
F5	RUBBER SHEET	NORA RUBBER	NORAPLAN SENTICA	6520 SNOW DAY	3MM THICK	1-FLOOR	FLOOR
F6	PORCELAIN TILE	DALTILE	DIGNITARY	SUPERIOR TAUPE DR08	12 X 24, GROUT: TBD	1-FLOOR	FLOOR
F7	MOSAIC TILE	DALTILE	KEYSTONES	D014 DESERT GRAY		1-FLOOR	FLOOR
F8	RUBBER SHEET	NORA RUBBER	NORAPLAN SENTICA	6533 VALENTINE	3MM THICK, OR ACCENT	1-FLOOR	FLOOR
BASE							
B1	RESILIENT SHEET INTEGRAL	MANNINGTON COMMERCIAL		MATCH FLOORING SPECIFIED	4" INTEGRAL COVED BASE W/ METAL CAP	2-BASE	BASE
B2	RUBBER SHEET INTEGRAL	NORA RUBBER	NORAPLAN SENTICA	MATCH FLOORING SPECIFIED	4" INTEGRAL COVED BASE W/ METAL CAP	2-BASE	BASE
B3	PORCELAIN COVE BASE	DALTILE	DIGNITARY	SUPERIOR TAUPE DR08	COVE BASE 6" X 12"	2-BASE	BASE
B4	QUARRY COVE BASE	DALTILE	QUARRY TILE	0Q62 ARID GRAY	5"H X 6"	2-BASE	BASE
PAINT	1	-		-		1	1
P1	GENERAL PAINT	SHERWIN WILLIAMS		SW6147 PANDA WHITE		3-PAINT	PAINT
P2	ACCENT PAINT	SHERWIN WILLIAMS		SW7043 WORLDLY GRAY		3-PAINT	PAINT
P3	ACCENT PAINT	SHERWIN WILLIAMS		SW6212 QUIETUDE		3-PAINT	PAINT
P4	ACCENT PAINT	SHERWIN WILLIAMS		SW7612 MOUNTAIN STREAM		3-PAINT	PAINT
SURFACE							
S1	PLASTIC LAMINATE VERTICAL	WILSONART LAMINATE	7965	WALNUT HEIGHTS	VERTICAL SURFACES	4-SURFACE	SURFACE
S2	NOT USED					4-SURFACE	SURFACE
S3	PLASTIC LAMINATE	PIONITE	WW011	KINGSLEY	.125" FIBER REINFORCED, PATIENT HEADWALL	4-SURFACE	SURFACE
S4	SOLID SURFACE, HORIZONTAL	CORIAN		RICE PAPER	HORIZONTAL SURFACES	4-SURFACE	SURFACE
WALL	1			1	I		
W1	PORCELAIN TILE	DALTILE	DIGNITARY	SUPERIOR TAUPE DR08		5-WALL	WALL
W2	CERAMIC TILE	DALTILE	SEMI-GLOSS	0190 ARCTIC WHITE		5-WALL	WALL
W3	WALL PROTECTION	CS ACROVYN	.040" THICKNESS, SUEDE TEXTURE	997 IRISH CREAM		5-WALL	WALL
W4	WALL PROTECTION		STAINLESS STEEL WALL PANELS	STAINLESS STEEL		5-WALL	WALL
W5	VINYL WALL COVERING	TRI KES	FRETWORK	2VFR-06, WORDLY GREY		5-WALL	WALL
W6	WALL PROTECTION	CS ACROVYN	.040" THICKNESS, SUEDE TEXTURE	324 UNDERSEAS		5-WALL	WALL
W7	WALL PROTECTION	CS ACROVYN	.040" THICKNESS, SUEDE TEXTURE	997 IRISH CREAM		5-WALL	WALL
W8	WALL PROTECTION		STAINLESS STEEL WALL PANELS	STAINLESS STEEL	6'-0" AFF	5-WALL	WALL
CORNER GUA	ARD CORNER GUARD 90 DEGREE	CS ACROVYN	SM-20	TBD	8'-0" HIGH, SURFACE MOUNTED, PVC FREE	6-CORNER	CORNER GUARD
CG-2	CORNER GUARD END CAP	CS ACROVYN	SSM-25	TBD	8'-0" HIGH, SURFACE MOUNTED, PVC FREE SHEET BACKER	6-CORNER	CORNER GUARD
CG-3	CORNER GUARD CUSTOM ANGLE	CS ACROVYN	SM-20M	TBD	8'-0" HIGH, SURFACE MOUNTED, PVC FREE	6-CORNER	CORNER
CG-4	CORNER GUARD 90 DEGREE		STAINLESS STEEL	STAINLESS STEEL		6-CORNER	CORNER
CG-5	CORNER GUARD 90 DEGREE		STAINLESS STEEL	STAINLESS STEEL	FULL HEIGHT	6-CORNER	CORNER
CEILING	1		1	1	I	1	
C1	2'X2' ACOUSTICAL LAY-IN TILE	ARMSTRONG	ULTIMA, SQUARE LAY-IN 1910	WHITE	TO MATCH EXISTING, USE GRID SDG01	7-CEILING	CEILING
C2	WOOD PLANK CEILING	ARMSTRONG	WOODWORKS, LINEAR, 6660W1	CONSTANTS WALNUT	TO MATCH EXISTING, USE GRID SDG02	7-CEILING	CEILING
C3	SUSPENDED 5/8" GYP. BD				TO MATCH EXISTING	7-CEILING	CEILING
C4	OPEN TO STRUCTURE, PAINTED					7-CEILING	CEILING
C5	2'X2' ACOUSTICAL LAY-IN TILE	ARMSTRONG	ULTIMA HEALTH ZONE, SQUARE LAY-IN 15/16", 1935		TO MATCH EXISTING, USE GRID SDG01	7-CEILING	CEILING
	1	1	- /	1	1	1	1

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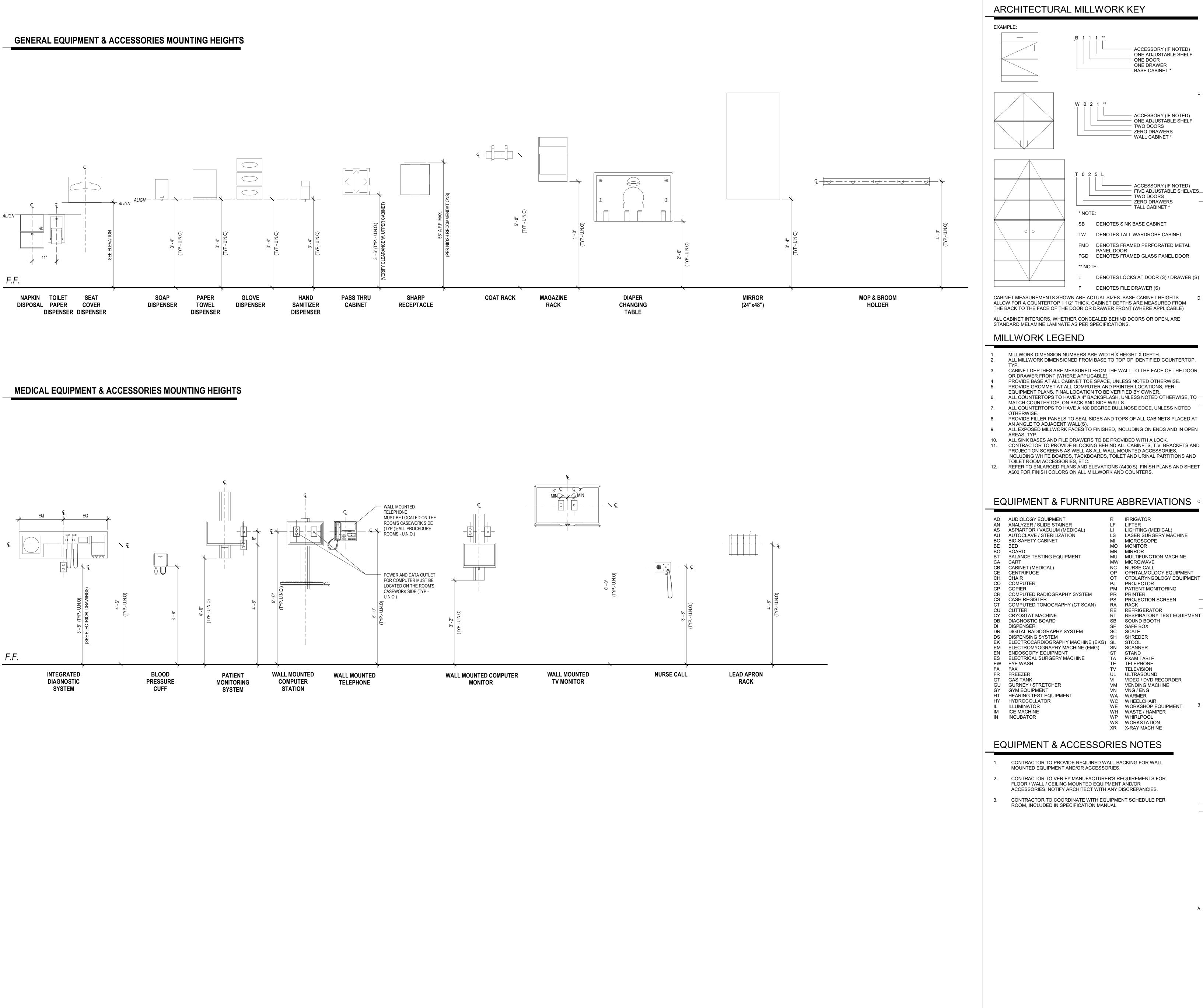


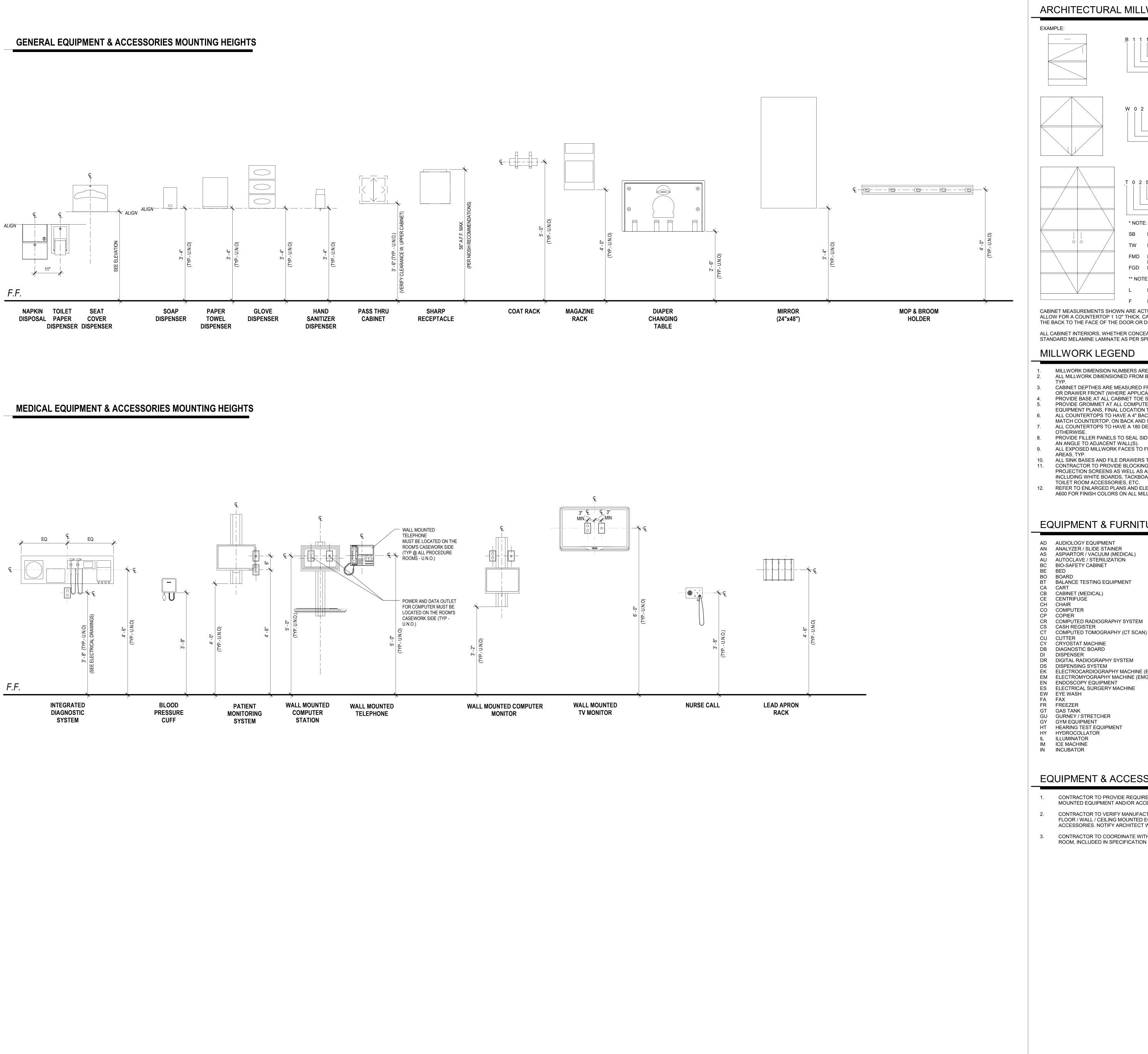
THE DOOR OR DRAWER FRONT (WHERE APPLICABLE)

- 1. MILLWORK DIMENSION NUMBERS ARE WIDTH X HEIGHT X DEPTH.
- 4. PROVIDE BASE AT ALL CABINET TOE SPACE, UNLESS NOTED OTHERWISE.

- 4. TYPICAL BASE CABINET WITH DRAWER(S), PER DETAIL A3/A570

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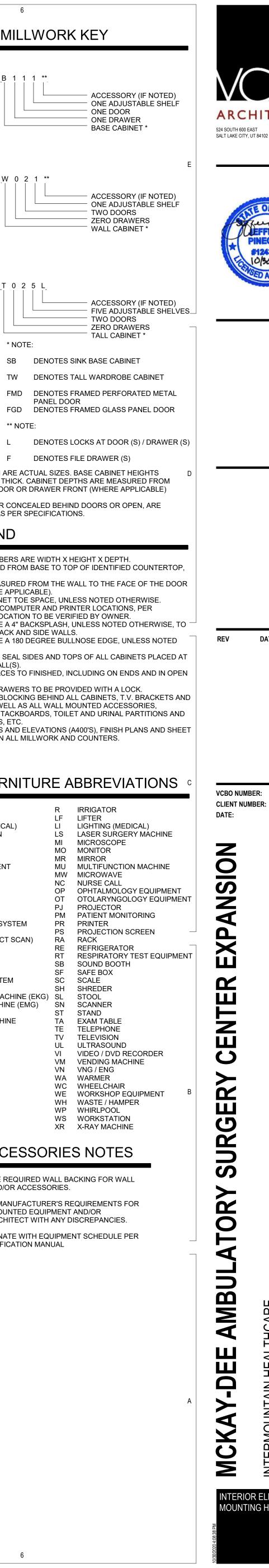




4

5

3



LF LIFTER

RA RACK

SC SCALE

STAND

ST

LI





VCBO NUMBER:

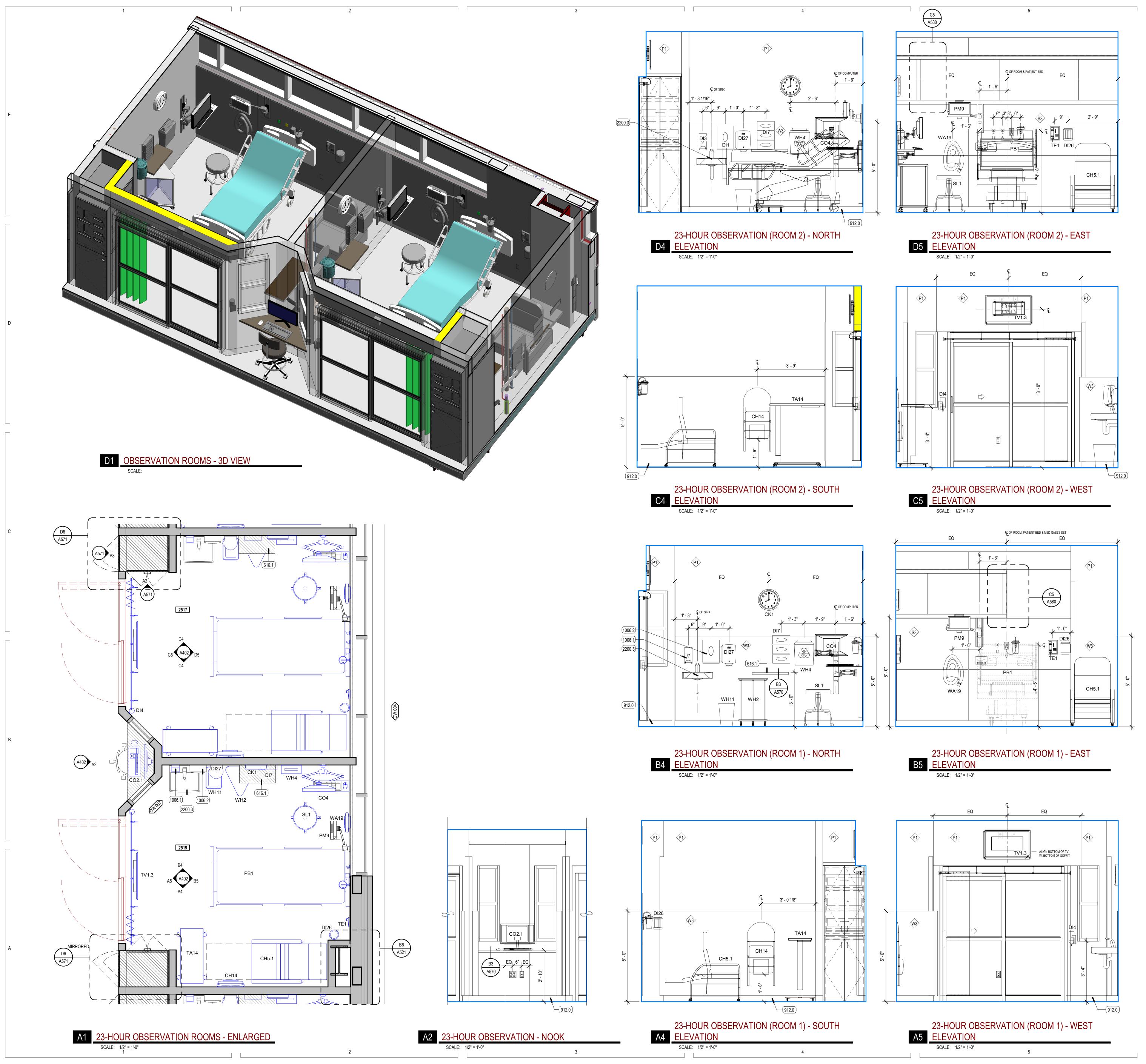
DATE DESCRIPTION

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2020.10.30

Ζ 0 S Ζ × R CENTEI > R SURGE TORY \sim MBUL L L ш TS Ś A INTERMOUNTAIN HEALT 3895 MEDICAL DRIVE, O \circ **MCKAY-DEE** CO INTERIOR ELEVATIONS TYP MOUNTING HEIGHTS

A401



	KEYED	NOTES	
		COUNTERTOP, SOLID SURFACE SCHEDULED BASE	
		DISPENSER, SOAP, NIC DISPENSER, PAPER TOWELS	
2	2200.3	SINK + FACUET, COMMERCIAL	
		EQUIPMENT LE	GEND
	EQUIPME	ENT CATEGORIES - ABBREVIATIONS:	
	MED = M GYM = G	EDICAL COM = COMMERCIAL YMNASIUM GEN = GENERAL	OFF = OFFIC FUR = FURNI
	CODE	DESCRIPT	ION
	AR1	MED - IMAGING-C-ARM EQUIPMENT	
	AR3 AS1	MED - IMAGING-MINI C-ARM MED - CAST VACUUM + CUTTER	
	AS4.2 AT1	MED - SUCTION-PORTABLE W. STAND MED - CART-ANESTHESIA MACHINE	
	AU12 AU22.1	MED - STERILIZER-FULL HEIGHT-RIGHT H	<u> </u>
	AU23.2 AU24.1	MED - ULTRASONIC CLEANER-FREESTAN MED - SINK-REPROCESSING-FREESTAND	DING (15 GAL.)
	BO3	MED - BOOM-EQUIPMENT TOWER W. SUP	PLY COLUMN
	BO4 BO5	MED - BOARD-PATIENT SLIDER-STANDAR	ED ARM
	BO8 CA10	MED - TANDEM BOOM W. 2 ARMS - MONIT GEN - CART-STORAGE-FULL HEIGHT 24 X	
	CA10.2 CA11	GEN - CART-STORAGE-FULL HEIGHT 24 X GEN - CART-STORAGE-FULL HEIGHT 24 X	
	CA14 CA19.1	GEN - CART-STORAGE-FULL HEIGHT 18 X MED - CART- DECONTAMINATION - WASH	
	CA19.2	GEN - CART - SMALL	
	CA20.1 CA21.2	MED - CART-ANESTHESIA GEN - HIGH DENSITY STORAGE (WIRE SH	,
	CA23.1 CA23.3	GEN - CART-UTILITY-SOLID SHELVES (S.S GEN - TABLE-WORK-SS W. CASTERS + UN	,
	CB10.2 CH5.1	GEN - CABINET-FLOOR STANDING-STAINL FUR - RECLINER-PATIENT	ESS-STEEL-DOUE
	CH14 CK1	FUR - CHAIR-FOLDING W. WALL HOLDER GEN - CLOCK-ANALOG (WALL)	
	СКЗ	GEN - CLOCK-DIGITAL (WALL)	
	CO2.1 CO2.2	OFF - COMPUTER-DESKTOP-KEYBOARD-S OFF - COMPUTER-DESKTOP-KEYBOARD-E	DUAL MONITOR
	CO4 DB1	OFF - COMPUTER-WORKSTATION-WALL M MED - DIAGNOSTIC BOARD-WALL MOUNT	
	DI1 DI3	GEN - DISPENSER-PAPER TOWEL (C-FOLD GEN - DISPENSER-SOAP) PAPER)
	DI4 DI7	GEN - HAND SANITIZER DISPENSER MED - DISPENSER-GLOVE-TRIPLE	
	DI26 DI27	MED - DISPENSER-EMESIS BAGS-WALL M GEN - ANTISEPTIC WIPES DISPENSER	OUNTED
	DM1	COM - SODA DISPENSER-COUNTER (4 DIS	
	DS5 ES1	MED - DISPENSING SYSTEM-MEDICATION MED - GENERATOR - BIPORAL ELECTROS	
	ES6	w.CART MED - LASER- SURGICAL- w.CART	
	FEC FS11.1	Semi-Recessed COM - FOOD-COFFEE BREWER-SINGLE	
	FS13 GU7	COM - FOOD SERVICE-DISPENSER-CUPS MED - GURNEY-STRETCHER (STANDARD)	
	IM1 MW1	COM - ICE MACHINE-COUNTER COM - MICROWAVE-COUNTER	
	O PB1	MED - MED GAS-WALL-OXYGEN MED - BED-PATIENT-TRANSPORT	
	PB5	MED - BASSINET-INFANT	
	PR2 PR4	OFF - PRINTER-DESKTOP OFF - PRINTER-LABEL	
	PT7 PU2.2	MED - STERILIZATION-RACK RETURN MED - STAND - HIGH FLOW POLE (ICU) - W	ITH CARE FUSION
	RA11	FUSION PUMPS GEN - RACK-MED GASES (12 E-TANKS)	
	RE5.1 RE18	COM - REFRIGERATOR-TOP FREEZER (18 MED - REFRIGERATOR-UNDERCOUNTER-	,
	SC11 SL1	MED - SCALE-WHEELCHAIR + STAND ON-F MED - STOOL-PHYSICIAN	PORTABLE
	SL3 SL8.2	MED - STOOL W. BACK & FOOT RING MED - STOOL-STEP W. HANDLE	
	SN1	MED - BARCODE SCANNER	
	SS1 SS5	MED - TOURNEQUET PUMP- POLE MOUNT MED - TRACTION-SURGICAL-SHOULDER T	
	ST1 ST2	MED - STAND-IV POLE MED - STAND-MAYO	
	ST8 ST12	MED - STAND BASIN-SINGLE MED - SUCTION- SUCTION TREE SURGICA	L
	TA12 TA14	MED - TABLE-OPERATING MED - TABLE-OVERBED-PATIENT	
	TA36 TA37	MED - TABLE-OPERATING-FRACTURE TAB MED - TABLE-OPERATING-SPINE TABLE	LE
	TA38 TE1	TABLE- OPERATING- SHOULDER/EYE GEN - TELEPHONE-WALL	
	TE2 TV1.3	GEN - TELEPHONE-DESK GEN - 32" TV-WALL MOUNTED-MEDICAL G	
	TV4.1	GEN - 55" TV-WALL MOUNTED (LANDSCAP	Έ)
	WA2 WA5	MED - WARMER-BLANKET-FULL HEIGHT-G MED - WARMER-IV/BLOOD-COUNTER	
	WA19 WH1	MED - PATIENT WARMER - BAIR PAW (FOF MED - WASTE-BIO HAZARD	BAIR PAW GOW
	WH2 WH4	MED - HAMPER-LINEN (W. CLOSE LID) MED - SHARP CONTAINER-WALL	
	WH9 WH10	MED - KICK BUCKET MED - WASTE-SHARP CONTAINER TROLLI	EY-8 GAL
	WH10.1 WH11	MED - WASTE-SHARP CONTAINER-FLOOR GEN - WASTE CAN (7 GAL.)	
	WH13	GEN - WASTE CAN (23 GAL.)	
	WH17.2 WH29	GEN - WASTE CAN W. DOLLY (44 GAL.) GEN - LINEN TRUCK-BULK	
	WH30 WH31.2	GEN - CART - DIRTY LINNEN TRUCK 28X48 GEN - HOUSEKEEPING CART	
	WM1 WM2	MED - WASTE MANAGEMENT SYSTEM-LIQ MED - WASTE MANAGEMENT SYSTEM-DO	
	WM2.1 WS9	MED - WASTE MANAGEMENT SYSTEM-LIG MED - IMAGING-C-ARM WORKSTATION	
	1		

WS16.1

WT13

