

project Intermountain McKay-Dee Ambulatory project no 20320.00

Surgery Center Exp.

date 2020-11-20 **no. pages** 25

owner Intermountain Healthcare

contractor CRC Construction

bid date 2020-12-08 **bid time** 12:00 am

This Addendum shall be considered part of the Contract Documents and Project Manual for the above mentioned project as though it had been issued at the same time and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original Contract Documents and Project Manual, the Addendum shall govern and take precedence.

general

1.1 MECHANICAL DRAWINGS:

1. See attached Mechanical Drawings and Narrative.

1.2 **ELECTRICAL DRAWINGS:**

1. See attached Electrical Drawings and Narrative.

drawings

item	sheet#	description
1.1	AS101	OVERALL SITE PLAN
		1. ADD - Dimensions in clouded area on drawing.
1.2	A120.1	ANNOTATED PLAN - LEVEL 02
		1. REVISE - Sink Location in Room 2522
1.3	A405	ENLARGED PLANS + ELEVATIONS - MEDICATION & NOURISHMENT ROOMS
		1. ADD - Ice Maker wall outlet.
		2. ADD - Second microwave in room Nourishment room.
1.4	A406	ENLARGED PLANS + ELEVATIONS - OPERATING ROOM
		1. ADD - Wall phone, as shown in Electrical drawings.
		2. REVISE - Diffuser spacing in the clouded area on ceiling plan.
1.5	A407	ENLARGED PLANS + ELEVATIONS - OPERATING ROOM
		1. ADD - Dimensions to wall return elevations, per FGI 2010.
		2. ADD - Wall phone in the OR, as shown in Electrical drawings.
		3. REVISE - Electrical outlets locations.
1.6	A411	ENLARGED PLANS + ELEVATIONS - PATIENT/STAFF TOILETS
		1. ADD - Mirror detail references on Elevations A5, C4 and D3.
		 ADD - Mirror detail references on Elevations A5, C4 and D3.

		2. REVISE - Sink Location in Enlarged Plan A1 and Elevation A5.
1.7	A500	WALL TYPES + GENERAL NOTES
		1. ADD - STC information to details A5 and A6.
1.8	A570	CASEWORK DETAILS
		1. ADD - Detail E2 for Mirror Mounting.

specifications

item	section#	description
1.1	08 7100	Revised section 08 7100 in its entirety.
1.2	09 5100	Revised Ceiling Types letters to match drawing Ceiling Legend.

End of Addendum 001



ADDENDUM #1

DATE: November 20, 2020

PROJECT NO: 20102

PROJECT: McKay-Dee ASC Addition

The following revision, additions, deletions, and/or items of clarification shall hereby be included as an integral part of the Contract Documents for the above-listed project and shall be fully binding. All other requirements of the original plans and specification shall remain in effect in their respective order.

DIVISION - 21, 22 & 23

GENERAL

1. OR ceiling diffuser system shall match the existing systems in the existing ORs and shall be Krueger brand. NO OTHER MANUFACTURE WILL BE ALLOWED FOR THE O.R. CEILING DIFFUSER SYSTEM.

DRAWINGS

SHEET - M120.1 - Second Level Mechanical Plan

- 1. Keyed note 14 added to drawing.
- 2. Changed the air flow to the Medication room to obtain positive pressure.

SHEET - M601 - Mechanical Schedules

Changed the air flow for VR-2-56 to constant volume.

SHEET - P110.1 - Main Level Plumbing Plan

- 1. Added waste for two washer boxes.
- 2. Added missing waste line sizes.

SHEET - M120.1 - Second Level Plumbing Plan

- 1. Added washer box in Nourishment for ice machine and coke machine.
- 2. Added washer box in Neptune Storage room for Neptune docking station.
- 3. Added some missing pipe sizes.

SHEET - P601 - Mechanical Schedules

- 1. Added washer boxes to Plumbing Fixture Schedule.
- 2. Fixed MV-6 on the Medical Gas Valve Schedule.
- 3. Fixed MO-1 on the Medical Gas Outlet Schedule.

PRIOR APPROVALS

The following manufacturers, trade names and products are allowed to bid on a name brand only basis with the provision that they completely satisfy all and every requirement of the drawings, specifications and all addenda shall conform to the design, quality and standards specified, established and required for the complete and satisfactory installation and performance of the building and all its respective parts.

<u>ltem</u>	<u>Manufacturer</u>	<u>Comments</u>
Flush Valves	American Standard	Not Allowed
Faucets	American Standard	Not Allowed
Toilet Seats	American Standard	Allowed

Page 2 of 2

Flow Meters Flow Meters Balancing Valves Expansion Tanks Expansion Tanks Air Separators Air Separators Flex Duct Diffusers, Registers, & Grills Diffusers, Registers, & Grills	Spirax Sarco Nexus Nexus Wessels Flamco Wessels Flamco Quiet Flex Air Concepts* A.I Manufactures*	Allowed Allowed Allowed Allowed Allowed Allowed Allowed Allowed
Diffusers, Registers, & Grills	AJ Manufactures*	Allowed

^{*}Note: These manufactures are allowed for all diffusers, registers and grills except for the OR ceiling diffuser system which shall be Krueger brand only.

Imc Asc Addition Mech Add #1

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Electrical Addendum

Date:November 20, 2020From:Peter Johansen, PE, LEED APJob:McKay-Dee ASC ExpansionEmail:PEJ@spectrum-engineers.com

Job No: 200446 **Phone:** 801-401-8422

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Electrical Addendum

Drawings

- 1. EDP102 Demolition Power Plan Level 02
 - a. Demolished a receptacle in Decon 2400.
 - b. Power and data near Corr. 2001 are existing to remain.
 - c. Added five existing horn/strobes to remain to the Decon area. See sheets EDP102 & FA102.
- 2. EP102 Power Plan Level 02
 - a. Revised power plan in Pass #2004.
 - b. Power receptacle in Clean #2524 was relocated to 48" AFF.
 - c. Added a power receptacle and a 2-data receptacle in Nurse Station 2515.
 - d. Revised the mounting heights for the power and data receptacles in Medication 2513.
 - e. Deleted a data receptacle, added a power receptacle, and added GFCI protection to outlets in Nourishment 2514.
 - f. Revised the circuit feeding Neptune Docking 2508.
 - g. Added a power receptacle and a data receptacle in between #2508 & #2509.
 - h. Added a receptacle raceway to Equipment Storage #2505.

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- 3. EP401 Enlarged / Typical Power Plans
 - a. Typical Observation Room Power Plan
 - i. Revised power and data layout to accommodate elevated label printer.
 - ii. Added wall phone.
 - iii. Revised mounting height for two receptacles.
 - b. Typical OR Power Plan
 - i. Replaced a 2-data receptacle with a 3-data receptacle.
- 4. <u>EL601</u> Interior Lighting Fixture Schedule
 - a. Added EGF-101, GF-101, GF-2, & WS-2 to the fixture schedule.
 - b. The following are additional approved manufacturers:

Туре	MFG	Part
DX-1	Halo	HC615D010 HM612835 61MDHWF (HALO, PDS)
DX-2	Halo	HC620D010 HM612835 61MDHWF (HALO, PDS)
DX-3	Halo	HC640D010 HM634835 61MDHWF (HALO, PDS)
DX-4	Halo	HC615D010 HM612835 61PSMDW (HALO, PDS)
DX-20	Halo	HC620D010 HM612835 61MDHWF (HALO, PDS)
G-1	TRULY GREEN SOLUTIONS, INC.	882230-35-S-F-80CRI
G-2	TRULY GREEN SOLUTIONS, INC.	882440-35-S-F-80CRI
G-3	TRULY GREEN SOLUTIONS, INC.	882460-35-S-F-80CRI
GF-1	TRULY GREEN SOLUTIONS, INC.	882230-35-S-F-80CRI 8822-FMK
NFP-12	Neo-Ray	S124DP-C-1020-835-C4-XX-XX-1-U- DD-F-SCBA



Mechanical Engineering Electrical Engineering Technology Engineering Acoustical Engineering Lighting Design Theatre Design Fire Protection Engineering Building Commissioning

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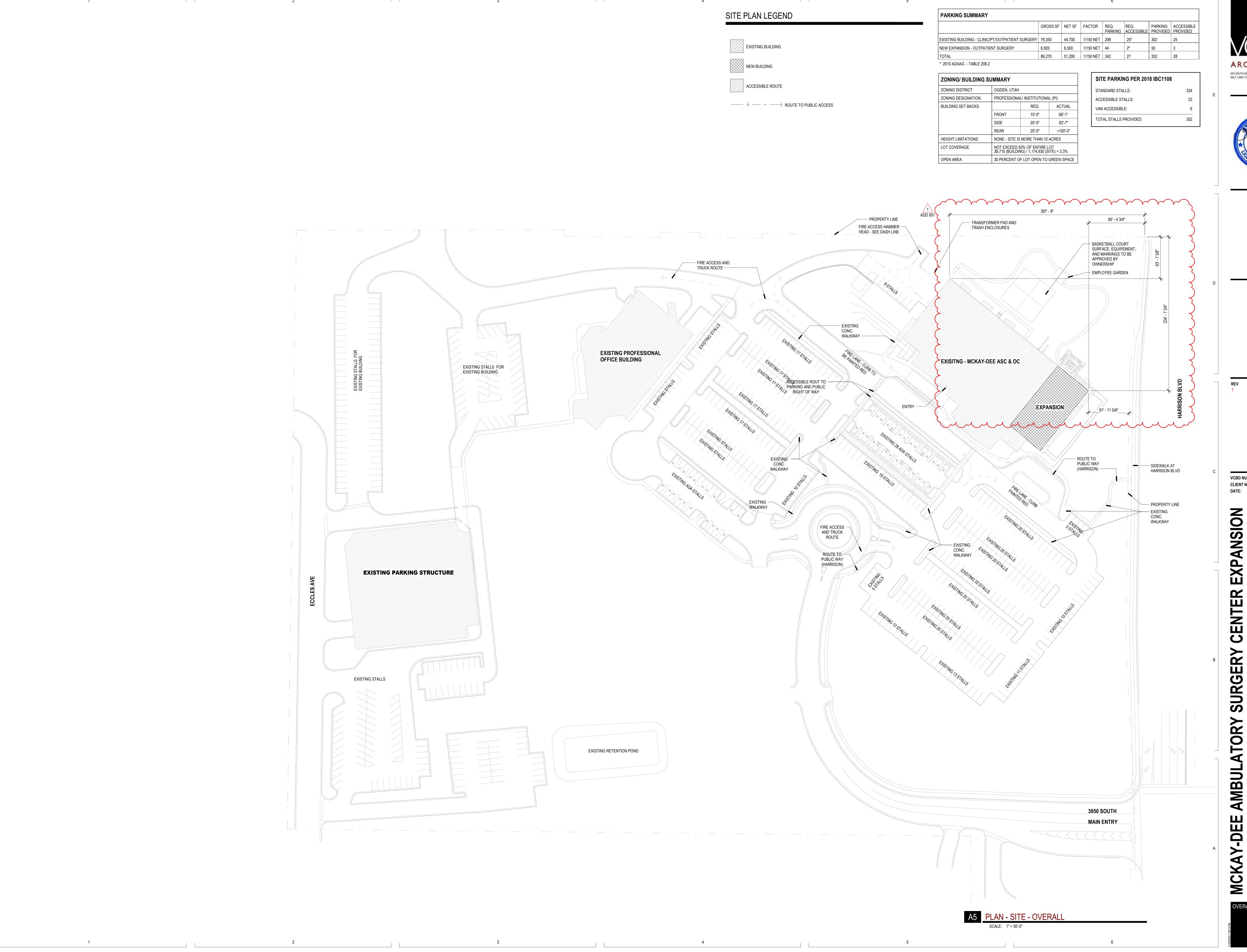
Туре	MFG	Part
DX1	Prescolite	LTR-6RD-H-SL15L-DM1/LTR-6RD-T-
		SL35K8WD-SSWT
DX2	Prescolite	LTR-6RD-H-ML20L-DM1/LTR-6RD-T-
		ML35K8WD-SSWT
DX3	Prescolite	LTR-6RD-H-HL35L-DM1/LTR-6RD-T-
		ML35K8WD-SSWT
DX4	Prescolite	LTR-6RD-H-SL15L-DM1/LTR-6RD-T-
		SL35K8WD-SSWT
DX20	Prescolite	LTR-6RD-H-ML20L-DM1/LTR-6RD-T-
		ML35K8WD-SSWT
G-1	Columbia Lighting	CFP22-40/33/2835
G-2	Columbia Lighting	CFP24-55/41/3435
G-3	Columbia Lighting	CFP24-7535
GF-1	Columbia Lighting	CFP22-40/33/2835 / FK22
GS-1	Columbia Lighting	VSY22-35HLHEG-EDU
GS-2	Columbia Lighting	VSY24-35LWHEG-EDU
NFP12	CORONET	LS4-12FT-35-LTGC1050LM/FT-UNV-
		DB.1%-W-AC-SD
SA1	Columbia Lighting	MPS4-35VW-CW-EDU

5. FA102 – Level 2 Fire Alarm Plan

a. Added 2 fire alarm strobes new Pass #2004 area.

END OF ADDENDUM

Attachments <EDP102, EP102, EP401, FA102, EL601>





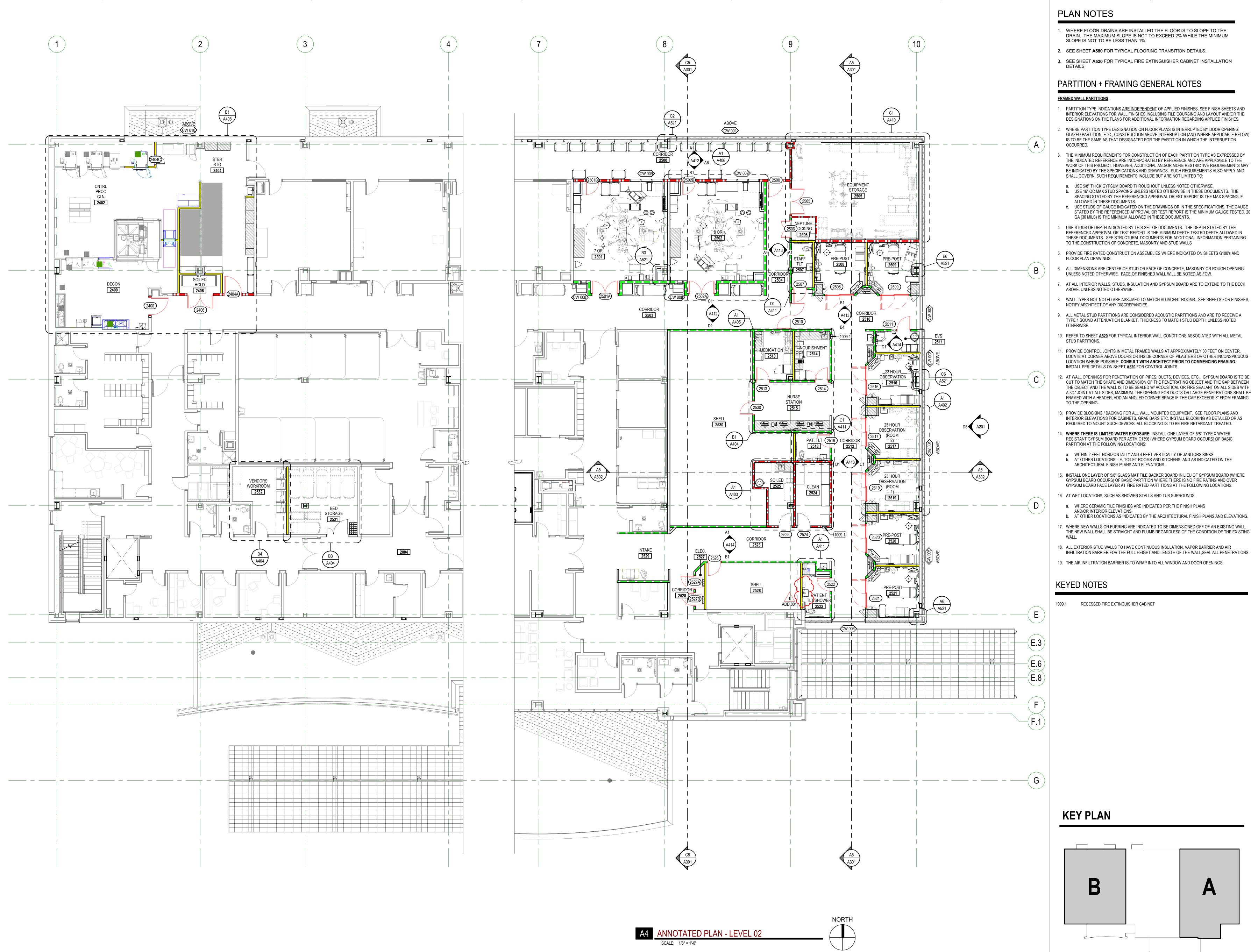




CLIENT NUMBER:

2020.10.30

AS101



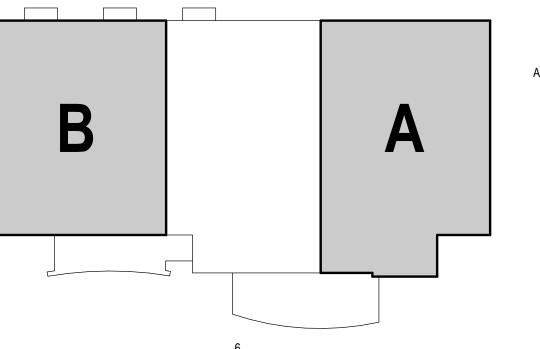
- 1. WHERE FLOOR DRAINS ARE INSTALLED THE FLOOR IS TO SLOPE TO THE DRAIN. THE MAXIMUM SLOPE IS NOT TO EXCEED 2% WHILE THE MINIMUM SLOPE IS NOT TO BE LESS THAN 1%.
- 2. SEE SHEET **A580** FOR TYPICAL FLOORING TRANSITION DETAILS.
- 3. SEE SHEET **A520** FOR TYPICAL FIRE EXTINGUISHER CABINET INSTALLATION

PARTITION + FRAMING GENERAL NOTES

1. PARTITION TYPE INDICATIONS <u>ARE INDEPENDENT</u> OF APPLIED FINISHES. SEE FINISH SHEETS AND INTERIOR ELEVATIONS FOR WALL FINISHES INCLUDING TILE COURSING AND LAYOUT AND/OR THE

- 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
- 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
- 10. REFER TO SHEET <u>A520</u> FOR TYPICAL INTERIOR WALL CONDITIONS ASSOCIATED WITH ALL METAL
- 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.
- 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
- 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.
- 4. 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
- 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,
- 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.
- 19. THE AIR INFILTRATION BARRIER IS TO WRAP INTO ALL WINDOW AND DOOR OPENINGS.

RECESSED FIRE EXTINGUISHER CABINET



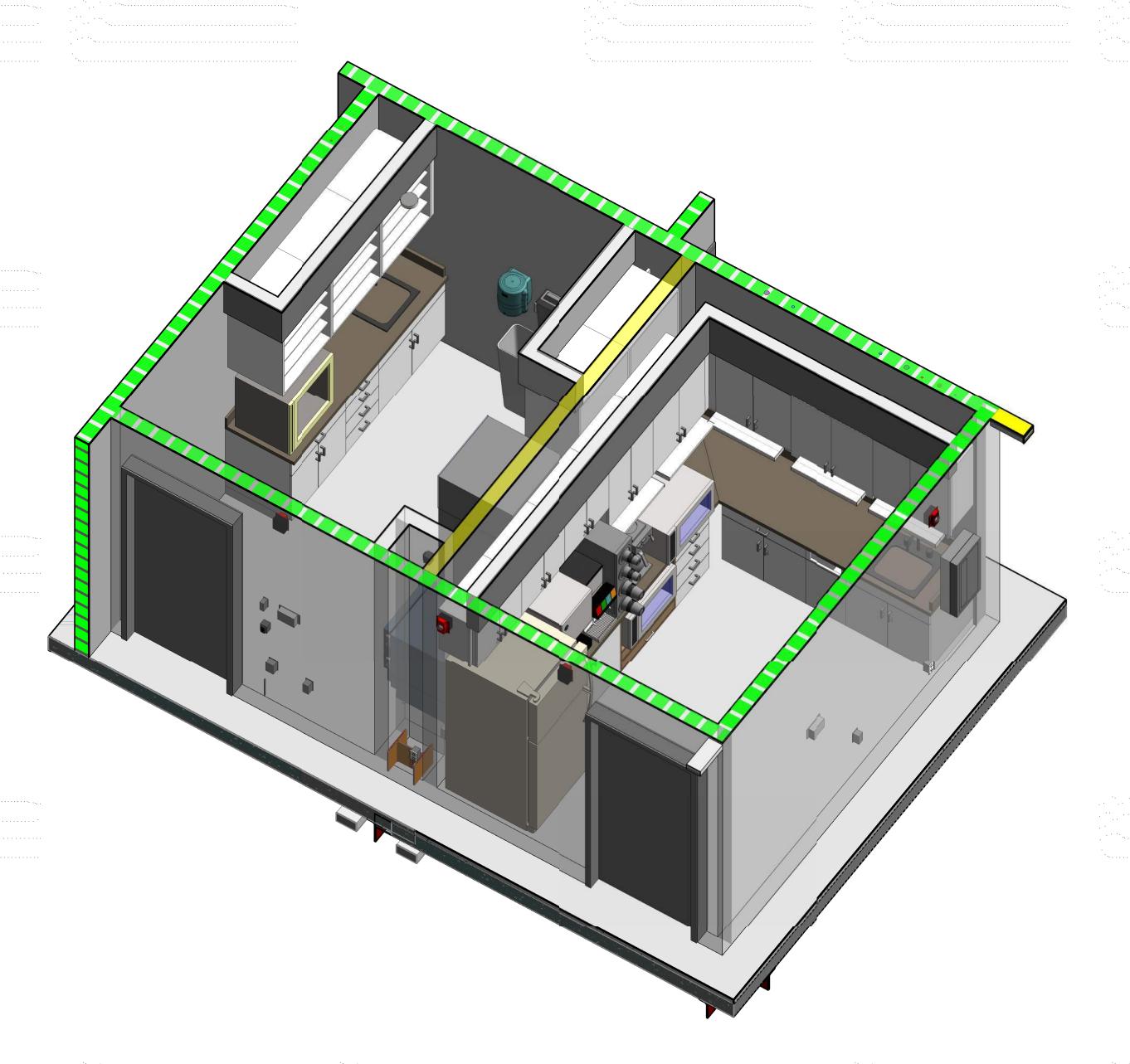




DATE DESCRIPTION

CLIENT NUMBER: DATE: 2020.10.30

MCKAY-DEE A120.1



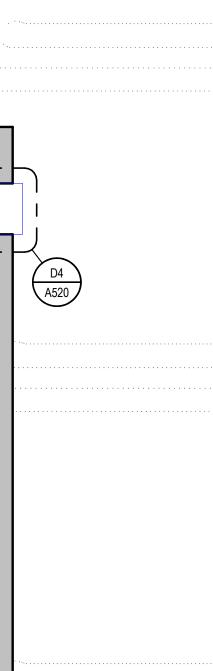


PR2

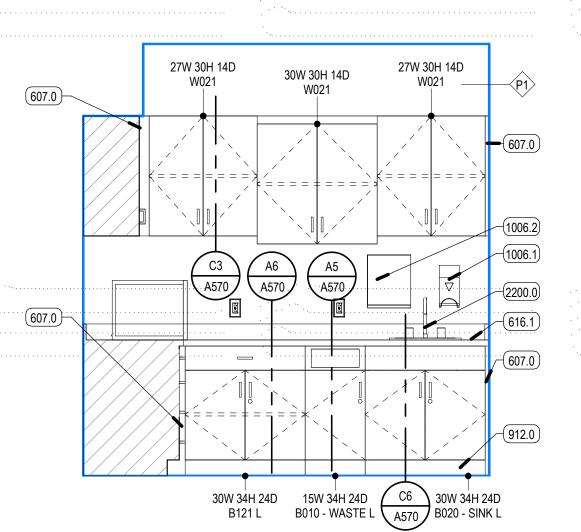
RE18

WA5

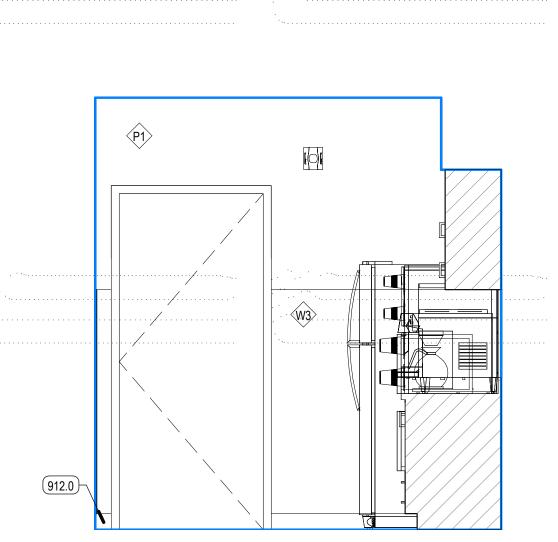
FS11.1



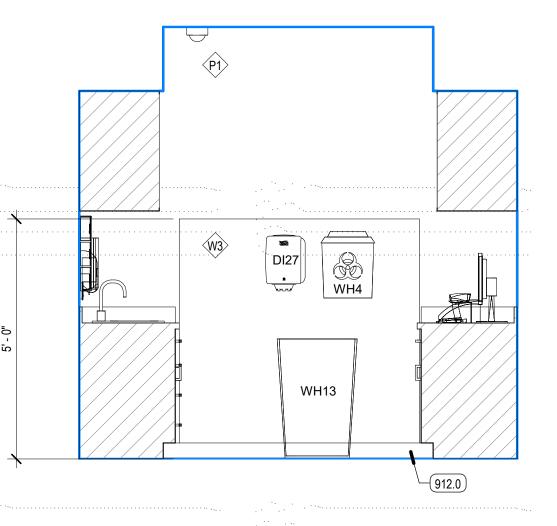
MEDICATION & NOURISHMENT ROOMS -SCALE: 1/2" = 1'-0"



NOURISHMENT ROOM - NORTH ELEVATION

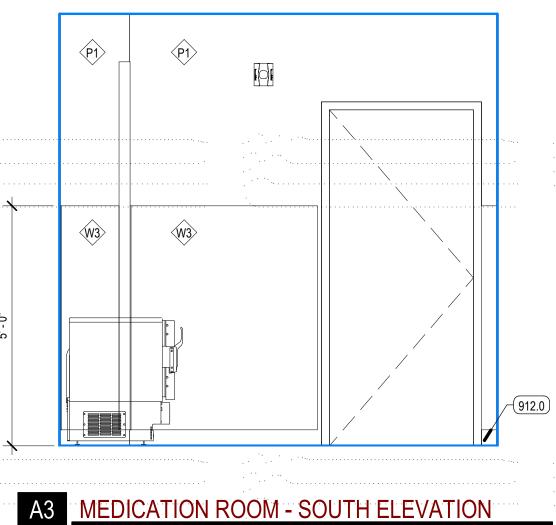


C3 NOURISHMENT ROOM - SOUTH ELEVATION

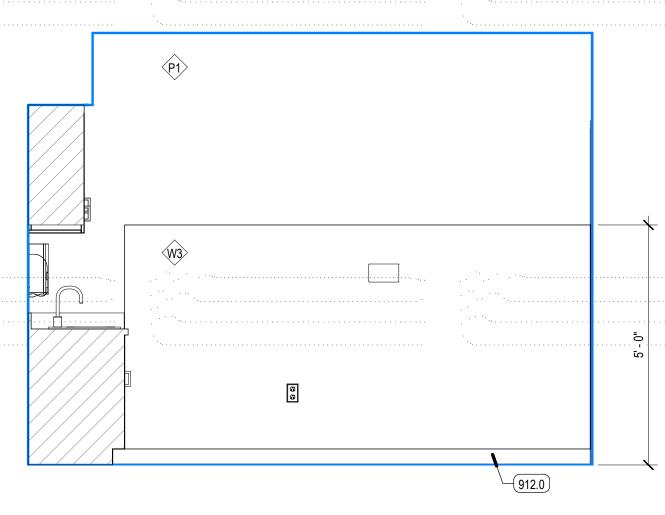


B3 MEDICATION ROOM - NORTH ELEVATION

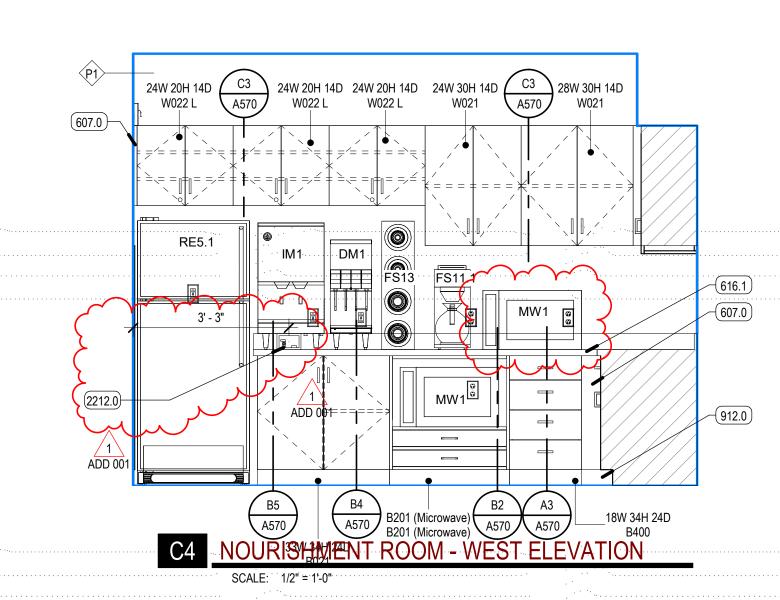
··· SCALE: ·· 1/2" = 1'-0"

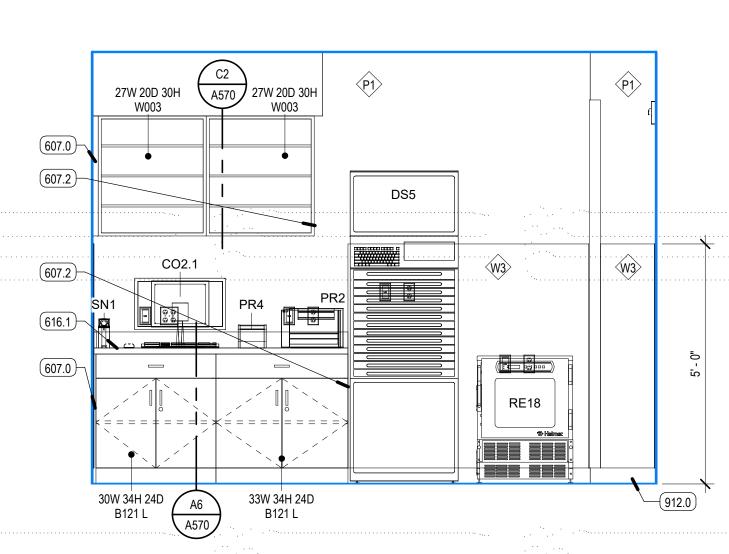


SCALE: 1/2" = 1'-0"



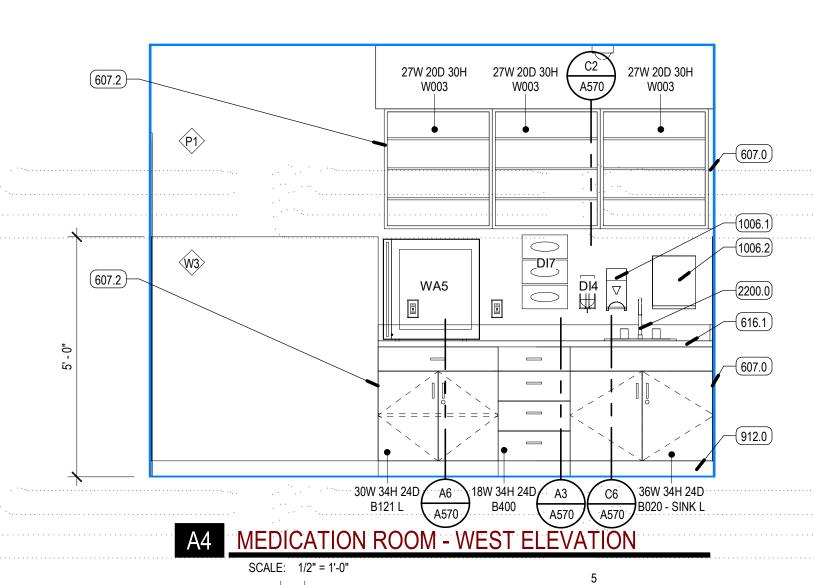
D4 NOURISHMENT ROOM - EAST ELEVATION





B4 MEDICATION ROOM - EAST ELEVATION

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



EQUIPMENT LEGEND

EQUIPMENT CATEGORIES - ABBREVIATIONS:

MED = MEDICAL COM = COMMERCIAL

OFF = OFFICE GYM = GYMNASIUM GEN = GENERAL FUR = FURNITURE (NIC)

CODE	DESCRIPTION
AR1	MED - IMAGING-C-ARM EQUIPMENT
AR3	MED - IMAGING-MINI C-ARM
AS1	MED - CAST VACUUM + CUTTER
AS4.2	MED - SUCTION-PORTABLE W. STAND
AT1	MED - CART-ANESTHESIA MACHINE
AU12	MED - STERILIZER-FULL HEIGHT-RIGHT HAND (AMSCO 400 MEDIUM)
AU22.1	MED - WASHER PASS THRU-FULL HEIGHT (C.P STEAM)
	MED - ULTRASONIC CLEANER-FREESTANDING (15 GAL.)
AU23.2	, ,
AU24.1	MED - SINK-REPROCESSING-FREESTANDING-2 BAYS
BO3	MED - BOOM-EQUIPMENT TOWER W. SUPPLY COLUMN
BO4	MED - BOARD-PATIENT SLIDER-STANDARD
BO5	MED - BOOM-ANESTHESIA W. ARTICULATED ARM
BO8	MED - TANDEM BOOM W. 2 ARMS - MONITOR + SURGICAL LIGHT
CA10	GEN - CART-STORAGE-FULL HEIGHT 24 X 48
CA10.2	GEN - CART-STORAGE-FULL HEIGHT 24 X 48
CA11	GEN - CART-STORAGE-FULL HEIGHT 24 X 60
CA14	GEN - CART-STORAGE-FULL HEIGHT 18 X 48
CA19.1	MED - CART- DECONTAMINATION - WASH
CA19.2	GEN - CART - SMALL
CA20.1	MED - CART-ANESTHESIA
CA21.2	GEN - HIGH DENSITY STORAGE (WIRE SHELVING) - TOP SLIDING TRACK
CA23.1	GEN - CART-UTILITY-SOLID SHELVES (S.S.) 24X36
CA23.3	GEN - TABLE-WORK-SS W. CASTERS + UNDERSHELF (24X60)
CB10.2	GEN - CABINET-FLOOR STANDING-STAINLESS-STEEL-DOUBLE DOOR
CH5.1	FUR - RECLINER-PATIENT
CH14	FUR - CHAIR-FOLDING W. WALL HOLDER
CK1	GEN - CLOCK-ANALOG (WALL)
CK3	GEN - CLOCK-DIGITAL (WALL)
CO2.1	OFF - COMPUTER-DESKTOP-KEYBOARD-SINGLE MONITOR
CO2.1	OFF - COMPUTER-DESKTOP-KEYBOARD-DUAL MONITOR
CO2.2	OFF - COMPUTER-WORKSTATION-WALL MOUNTED
DB1	MED - DIAGNOSTIC BOARD-WALL MOUNTED
DI1	GEN - DISPENSER-PAPER TOWEL (C-FOLD PAPER)
DI3	GEN - DISPENSER-SOAP
DI4	GEN - HAND SANITIZER DISPENSER
DI7	MED - DISPENSER-GLOVE-TRIPLE
DI26	MED - DISPENSER-EMESIS BAGS-WALL MOUNTED
DI27	GEN - ANTISEPTIC WIPES DISPENSER
DM1	COM - SODA DISPENSER-COUNTER (4 DISPENSER VALVES)
DS5	MED - DISPENSING SYSTEM-MEDICATION-ONE CELL CABINET-FLOOR
ES1	MED - GENERATOR - BIPORAL ELECTROSURGICAL GENERATOR (BOVIE)
	w.CART
ES6	MED - LASER- SURGICAL- w.CART
FEC	Semi-Recessed
FS11.1	COM - FOOD-COFFEE BREWER-SINGLE
FS13	COM - FOOD SERVICE-DISPENSER-CUPS
GU7	MED - GURNEY-STRETCHER (STANDARD)
IM1	COM - ICE MACHINE-COUNTER
MW1	COM - MICROWAVE-COUNTER
_	1 Marie and 1 Mari
.O DB1	
PB1	MED - BED-PATIENT-TRANSPORT
PB5	MED - BASSINET-INFANT
PR2	OFF - PRINTER-DESKTOP
PR4	OFF - PRINTER-LABEL
PT7	MED - STERILIZATION-RACK RETURN
PU2.2	MED - STAND - HIGH FLOW POLE (ICU) - WITH CARE FUSION AND MED FUSION PUMPS
RA11	GEN - RACK-MED GASES (12 E-TANKS)
RE5.1	COM - REFRIGERATOR-TOP FREEZER (18 C.F.)
RE18	MED - REFRIGERATOR-UNDERCOUNTER-MED GRADE
SC11	MED - SCALE-WHEELCHAIR + STAND ON-PORTABLE
SL1	MED - STOOL-PHYSICIAN
SL3	MED - STOOL W. BACK & FOOT RING
SL8.2	MED - STOOL-STEP W. HANDLE
SN1	MED - BARCODE SCANNER
SS1	MED - TOURNEQUET PUMP- POLE MOUNTED
SS5	MED - TRACTION-SURGICAL-SHOULDER TENSION POSITIONER
ST1	MED - STAND-IV POLE
ST2	MED - STAND-MAYO
ST8	MED - STAND BASIN-SINGLE
ST12	MED - SUCTION- SUCTION TREE SURGICAL
TA12	MED - TABLE-OPERATING
17112	

KEYED NOTES

07.0	MILLWORK, FILLER PANEL
07:2	PANEL, FINISHED END/SIDE/BACK
16.1	COUNTERTOP, SOLID SURFACE
12.0	SCHEDULED BASE
006.1	DISPENSER, SOAP, NIC
006.2	DISPENSER, PAPER TOWELS
200.0	SINK + FAUCET

2212.0 ICE MAKE WALL OUTLET

MED - TABLE-OVERBED-PATIENT

GEN - TELEPHONE-WALL GEN - TELEPHONE-DESK

MED - WASTE-BIO HAZARD

GEN - WASTE CAN (7 GAL.) GEN - WASTE CAN (23 GAL.)

GEN - LINEN TRUCK-BULK

WH31.2 GEN - HOUSEKEEPING CART

MED - KICK BUCKET

MED - TABLE-OPERATING-FRACTURE TABLE
MED - TABLE-OPERATING-SPINE TABLE

GEN - 43" TV-WALL MOUNTED-MEDICAL GRADE GEN - 55" TV-WALL MOUNTED (LANDSCAPE)

MED - WARMER-BLANKET-FULL HEIGHT-GLASS DOOR

MED - WASTE-SHARP CONTAINER TROLLEY-8 GAL MED - WASTE-SHARP CONTAINER-FLOOR (8 GAL)

GEN - CART - DIRTY LINNEN TRUCK 28X48X67inch

WT13 GEN - TABLE-WORK-SS W. CASTERS + UNDERSHELF (24X48)

MED - WASTE MANAGEMENT SYSTEM-LIQUID-ROVER MED - WASTE MANAGEMENT SYSTEM-DOCKING STATION

MED - WASTE MANAGEMENT SYSTEM-LIQUID-DOCKING

MED - WORKSTATION-C.P. PREP & PACK TABLE-ADJUSTABLE

MED - PATIENT WARMER - BAIR PAW (FOR BAIR PAW GOWN)

TABLE- OPERATING- SHOULDER/EYE

MED - WARMER-IV/BLOOD-COUNTER

MED - HAMPER-LINEN (W. CLOSE LID) MED - SHARP CONTAINER-WALL

GEN - WASTE CAN W. DOLLY (44 GAL.)

MED - IMAGING-C-ARM WORKSTATION





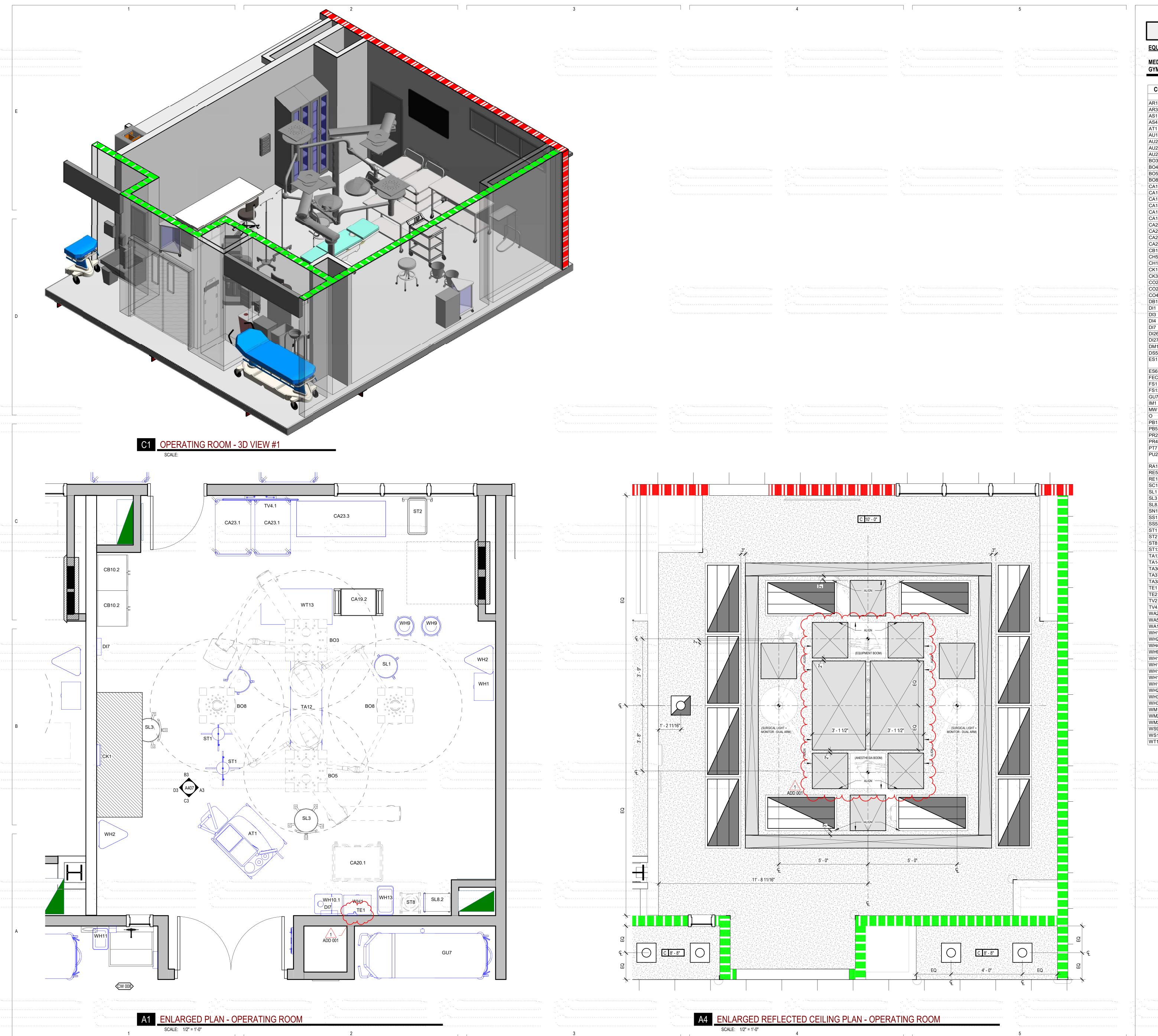
DATE DESCRIPTION

VCBO NUMB	ER:	20320
CLIENT NUM	BER:	
DATE:		2020.10:30

EXPANSION CENTER

> SURGERY MBUL 4 -DEE





EQUIPMENT LEGEND

EQUIPMENT CATEGORIES - ABBREVIATIONS:

MED = MEDICAL COM = COMMERCIAL OFF = OFFICE
GYM = GYMNASIUM GEN = GENERAL FUR = FURNITURE (NIC)

OFF - COMPUTER-DESKTOP-KEYBOARD-DUAL MONITOR
OFF - COMPUTER-WORKSTATION-WALL MOUNTED
MED - DIAGNOSTIC BOARD-WALL MOUNTED
GEN - DISPENSER-PAPER TOWEL (C-FOLD PAPER)

MED - DISPENSER-EMESIS BAGS-WALL MOUNTED

COM - SODA DISPENSER-COUNTER (4 DISPENSER VALVES)

MED - DISPENSING SYSTEM-MEDICATION-ONE CELL CABINET-FLOOR
MED - GENERATOR - BIPORAL ELECTROSURGICAL GENERATOR (BOVIE)

MED - STAND - HIGH FLOW POLE (ICU) - WITH CARE FUSION AND MED

GEN - DISPENSER-SOAP

GEN - HAND SANITIZER DISPENSER MED - DISPENSER-GLOVE-TRIPLE

GEN - ANTISEPTIC WIPES DISPENSER

MED - LASER- SURGICAL- w.CART

COM - ICE MACHINE-COUNTER
COM - MICROWAVE-COUNTER
MED - MED GAS-WALL-OXYGEN
MED - BED-PATIENT-TRANSPORT

MED - BASSINET-INFANT OFF - PRINTER-DESKTOP

MED - STOOL-PHYSICIAN

MED - BARCODE SCANNER

MED - STAND BASIN-SINGLE

MED - TABLE-OPERATING

GEN - TELEPHONE-WALL GEN - TELEPHONE-DESK

MED - WASTE-BIO HAZARD

GEN - WASTE CAN (7 GAL.)
GEN - WASTE CAN (23 GAL.)

GEN - LINEN TRUCK-BULK

GEN - HOUSEKEEPING CART

MED - KICK BUCKET

MED - TABLE-OVERBED-PATIENT

MED - STAND-IV POLE

MED - STAND-MAYO

OFF - PRINTER-LABEL

FUSION PUMPS

COM - FOOD-COFFEE BREWER-SINGLE
COM - FOOD SERVICE-DISPENSER-CUPS
MED - GURNEY-STRETCHER (STANDARD)

MED - STERILIZATION-RACK RETURN

GEN - RACK-MED GASES (12 E-TANKS)
COM - REFRIGERATOR-TOP FREEZER (18 C.F.)

MED - STOOL W. BACK & FOOT RING MED - STOOL-STEP W. HANDLE

MED - TOURNEQUET PUMP- POLE MOUNTED

MED - SUCTION- SUCTION TREE SURGICAL

MED - TABLE-OPERATING-FRACTURE TABLE

GEN - 43" TV-WALL MOUNTED-MEDICAL GRADE
GEN - 55" TV-WALL MOUNTED (LANDSCAPE)

MED - WARMER-BLANKET-FULL HEIGHT-GLASS DOOR

MED - WASTE-SHARP CONTAINER TROLLEY-8 GAL

MED - WASTE-SHARP CONTAINER-FLOOR (8 GAL)

GEN - CART - DIRTY LINNEN TRUCK 28X48X67inch

MED - WASTE MANAGEMENT SYSTEM-LIQUID-ROVER
MED - WASTE MANAGEMENT SYSTEM-DOCKING STATION

MED - WASTE MANAGEMENT SYSTEM-LIQUID-DOCKING

MED - WORKSTATION-C.P. PREP & PACK TABLE-ADJUSTABLE GEN - TABLE-WORK-SS W. CASTERS + UNDERSHELF (24X48)

MED - PATIENT WARMER - BAIR PAW (FOR BAIR PAW GOWN)

MED - TABLE-OPERATING-SPINE TABLE
TABLE- OPERATING- SHOULDER/EYE

MED - WARMER-IV/BLOOD-COUNTER

MED - HAMPER-LINEN (W. CLOSE LID)
MED - SHARP CONTAINER-WALL

GEN - WASTE CAN W. DOLLY (44 GAL.)

MED - IMAGING-C-ARM WORKSTATION

MED - REFRIGERATOR-UNDERCOUNTER-MED GRADE
MED - SCALE-WHEELCHAIR + STAND ON-PORTABLE

MED - TRACTION-SURGICAL-SHOULDER TENSION POSITIONER

Semi-Recessed

	DESCRIPTION			
	MED - IMAGING-C-ARM EQUIPMENT			
	MED - IMAGING-MINI C-ARM	Ε		
	MED - CAST VACUUM + CUTTER			
	MED - SUCTION-PORTABLE W. STAND			
	MED - CART-ANESTHESIA MACHINE			
	MED - STERILIZER-FULL HEIGHT-RIGHT HAND (AMSCO 400 MEDIUM)			
	MED - WASHER PASS THRU-FULL HEIGHT (C.P STEAM)			
	MED - ULTRASONIC CLEANER-FREESTANDING (15 GAL.)			
	MED - SINK-REPROCESSING-FREESTANDING-2 BAYS			
	MED - BOOM-EQUIPMENT TOWER W. SUPPLY COLUMN			
	MED - BOARD-PATIENT SLIDER-STANDARD			
	MED - BOOM-ANESTHESIA W. ARTICULATED ARM			
	MED - TANDEM BOOM W. 2 ARMS - MONITOR + SURGICAL LIGHT			
• •	GEN - CART-STORAGE-FULL HEIGHT 24 X 48			
	GEN - CART-STORAGE-FULL HEIGHT 24 X 48			
	GEN - CART-STORAGE-FULL HEIGHT 24 X 60			
	GEN - CART-STORAGE-FULL HEIGHT 18 X 48			
	MED - CART- DECONTAMINATION - WASH			
	GEN - CART - SMALL	_	7	
	MED - CART-ANESTHESIA			
	GEN - HIGH DENSITY STORAGE (WIRE SHELVING) - TOP SLIDING TRACK			
	GEN - CART-UTILITY-SOLID SHELVES (S.S.) 24X36			
	GEN - TABLE-WORK-SS W. CASTERS + UNDERSHELF (24X60)			
	GEN - CABINET-FLOOR STANDING-STAINLESS-STEEL-DOUBLE DOOR			
	FUR - RECLINER-PATIENT			
	FUR - CHAIR-FOLDING W. WALL HOLDER			
	GEN - CLOCK-ANALOG (WALL)			
	GEN - CLOCK-DIGITAL (WALL)			
	OFF - COMPUTER-DESKTOP-KEYBOARD-SINGLE MONITOR			

524 SOUTH 600 EAST SALT LAKE CITY, UT 84102

REV DATE DESCRIPTION

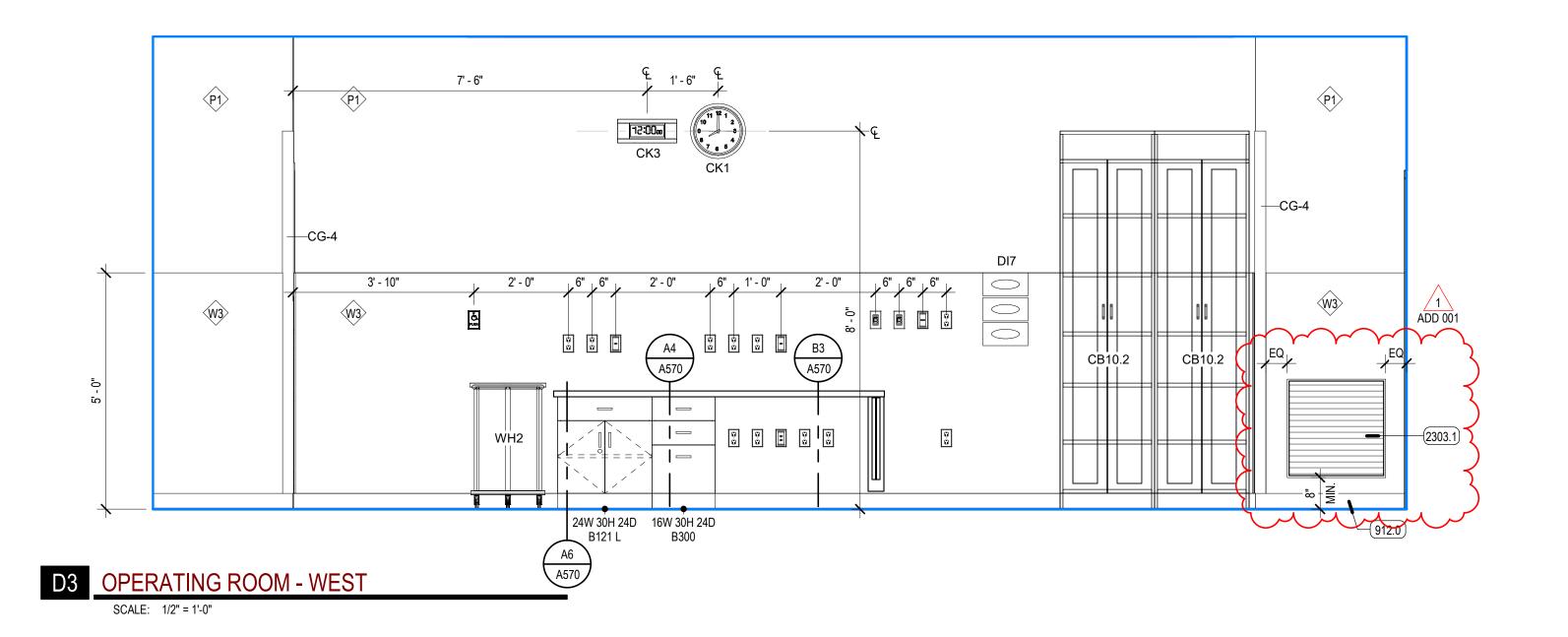
VCBO NUMBER: 20320
CLIENT NUMBER:
DATE: 2020.10.30

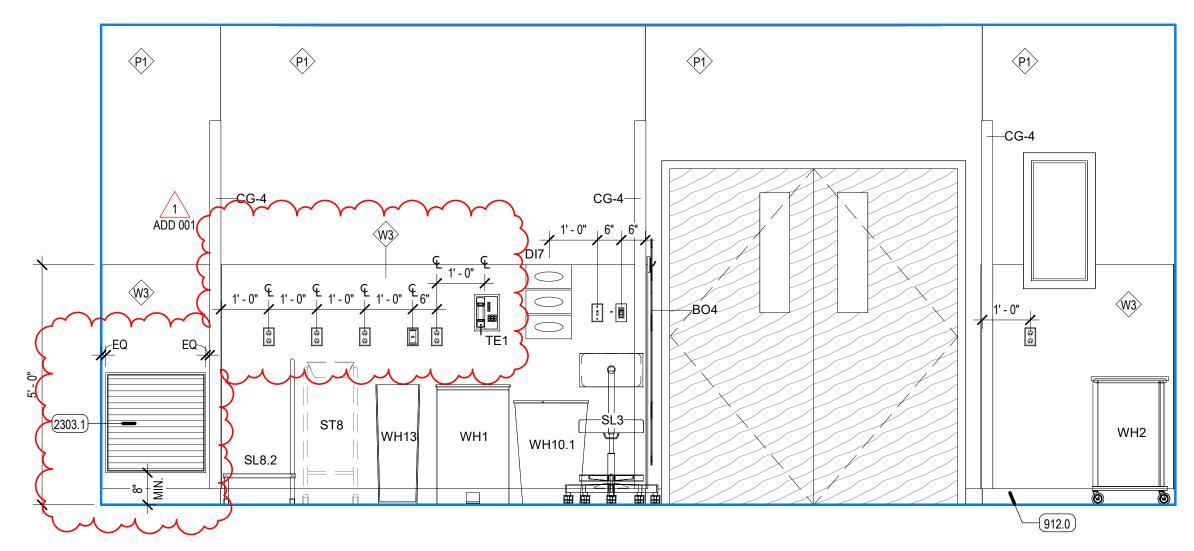
CENTER EXPANSION

MCKAY-DEE AMBULATORY SURGERY CE INTERMOUNTAIN HEALTHCARE

NTERMOUNTAIN HEALTHCARE 1895 MEDICAL DRIVE, OGDEN, UTAH 84

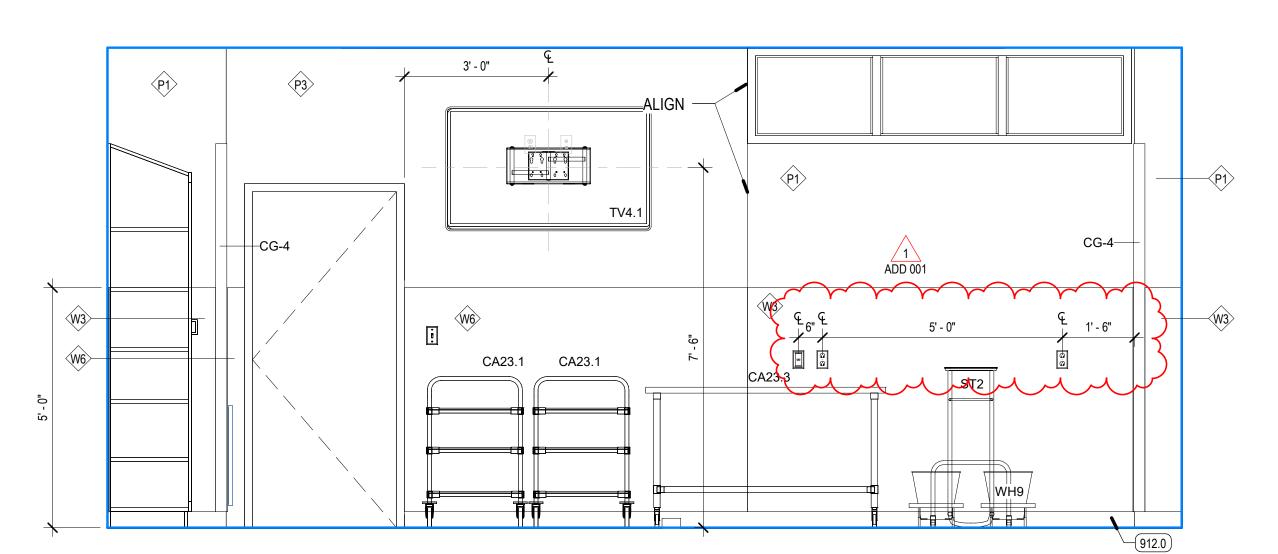






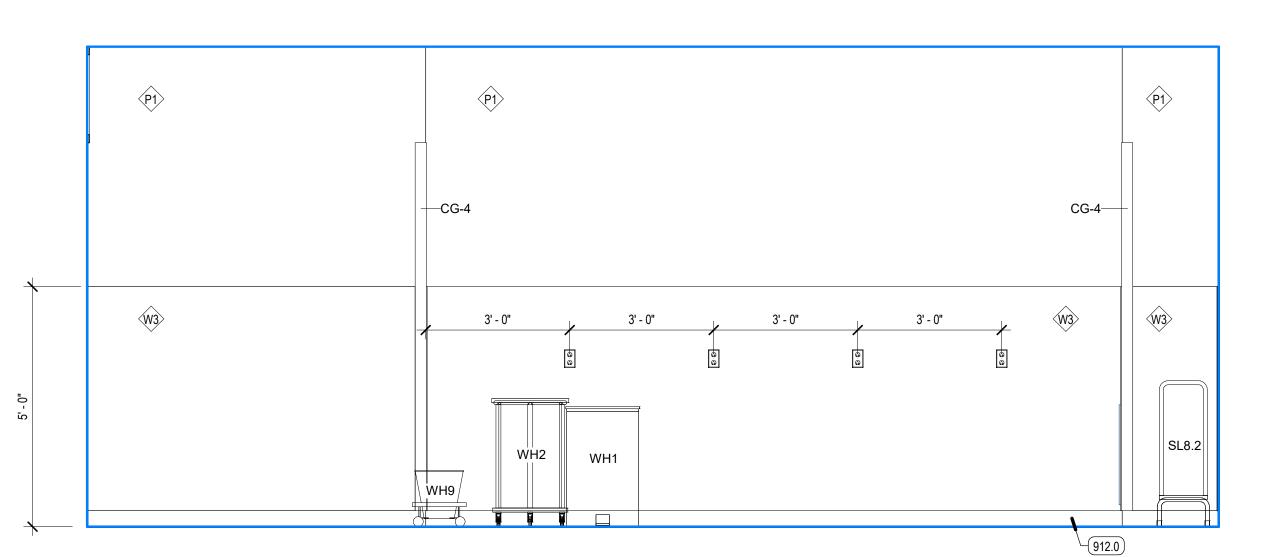
C3 OPERATING ROOM - SOUTH

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



B3 OPERATING ROOM - NORTH

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



A3 OPERATING ROOM - EAST SCALE: 1/2" = 1'-0"

EQUIPMENT LEGEND

EQUIPMENT CATEGORIES - ABBREVIATIONS:

CODE

MED = MEDICAL COM = COMMERCIAL OFF = OFFICE GYM = GYMNASIUM GEN = GENERAL FUR = FURNITURE (NIC)

DESCRIPTION

AR1 AR3	MED - IMAGING-C-ARM EQUIPMENT MED - IMAGING-MINI C-ARM
AS1	MED - CAST VACUUM + CUTTER
AS4.2	MED - SUCTION-PORTABLE W. STAND
AT1 AU12	MED - CART-ANESTHESIA MACHINE MED - STERILIZER-FULL HEIGHT-RIGHT HAND (AMSCO 400 MEDIUM)
AU22.1	MED - WASHER PASS THRU-FULL HEIGHT (C.P STEAM)
AU23.2	MED - ULTRASONIC CLEANER-FREESTANDING (15 GAL.)
AU24.1 BO3	MED - SINK-REPROCESSING-FREESTANDING-2 BAYS MED - BOOM-EQUIPMENT TOWER W. SUPPLY COLUMN
BO3 BO4	MED - BOARD-PATIENT SLIDER-STANDARD
BO5	MED - BOOM-ANESTHESIA W. ARTICULATED ARM
BO8	MED - TANDEM BOOM W. 2 ARMS - MONITOR + SURGICAL LIGHT
CA10 CA10.2	GEN - CART-STORAGE-FULL HEIGHT 24 X 48 GEN - CART-STORAGE-FULL HEIGHT 24 X 48
CA11	GEN - CART-STORAGE-FULL HEIGHT 24 X 60
CA14	GEN - CART-STORAGE-FULL HEIGHT 18 X 48
CA19.1 CA19.2	MED - CART- DECONTAMINATION - WASH GEN - CART - SMALL
CA20.1	MED - CART-ANESTHESIA
CA21.2	GEN - HIGH DENSITY STORAGE (WIRE SHELVING) - TOP SLIDING TRACK
CA23.1 CA23.3	GEN - CART-UTILITY-SOLID SHELVES (S.S.) 24X36 GEN - TABLE-WORK-SS W. CASTERS + UNDERSHELF (24X60)
CB10.2	GEN - CABINET-FLOOR STANDING-STAINLESS-STEEL-DOUBLE DOOR
CH5.1	FUR - RECLINER-PATIENT
CH14	FUR - CHAIR-FOLDING W. WALL HOLDER GEN - CLOCK-ANALOG (WALL)
CK1 CK3	GEN - CLOCK-DIGITAL (WALL)
CO2.1	OFF - COMPUTER-DESKTOP-KEYBOARD-SINGLE MONITOR
CO2.2	OFF - COMPUTER-DESKTOP-KEYBOARD-DUAL MONITOR
CO4 DB1	OFF - COMPUTER-WORKSTATION-WALL MOUNTED MED - DIAGNOSTIC BOARD-WALL MOUNTED
DI1	GEN - DISPENSER-PAPER TOWEL (C-FOLD PAPER)
DI3	GEN - DISPENSER-SOAP
DI4 DI7	GEN - HAND SANITIZER DISPENSER MED - DISPENSER-GLOVE-TRIPLE
DI26	MED - DISPENSER-EMESIS BAGS-WALL MOUNTED
DI27	GEN - ANTISEPTIC WIPES DISPENSER
DM1 DS5	COM - SODA DISPENSER-COUNTER (4 DISPENSER VALVES) MED - DISPENSING SYSTEM-MEDICATION-ONE CELL CABINET-FLOOR
ES1	MED - GENERATOR - BIPORAL ELECTROSURGICAL GENERATOR (BOVIE)
	w.CART ^
ES6 FEC	MED - LASER- SURGICAL- w.CART Semi-Recessed
FS11.1	COM - FOOD-COFFEE BREWER-SINGLE
FS13	COM - FOOD SERVICE-DISPENSER-CUPS
GU7	MED - GURNEY-STRETCHER (STANDARD)
IM1 MW1	COM - ICE MACHINE-COUNTER
O	COM - MICROWAVE-COUNTER MED - MED GAS-WALL-OXYGEN
PB1	MED - BED-PATIENT-TRANSPORT
PB5	MED - BASSINET-INFANT
PR2 PR4	OFF - PRINTER-DESKTOP OFF - PRINTER-LABEL
PT7	MED - STERILIZATION-RACK RETURN
PU2.2	MED - STAND - HIGH FLOW POLE (ICU) - WITH CARE FUSION AND MED
RA11	FUSION PUMPS GEN - RACK-MED GASES (12 E-TANKS)
RE5.1	COM - REFRIGERATOR-TOP FREEZER (18 C.F.)
RE18	MED - REFRIGERATOR-UNDERCOUNTER-MED GRADE
SC11	MED - SCALE-WHEELCHAIR + STAND ON-PORTABLE
SL1 SL3	MED - STOOL-PHYSICIAN MED - STOOL W. BACK & FOOT RING
SL8.2	MED - STOOL-STEP W. HANDLE
SN1	MED - BARCODE SCANNER
SS1	MED - TOURNEQUET PUMP- POLE MOUNTED MED - TRACTION-SURGICAL-SHOULDER TENSION POSITIONER
SS5 ST1	MED - TRACTION-SURGICAL-SHOULDER TENSION POSITIONER MED - STAND-IV POLE
ST2	MED - STAND-MAYO
ST8	MED - STAND BASIN-SINGLE
ST12 TA12	MED - SUCTION- SUCTION TREE SURGICAL MED - TABLE-OPERATING
TA12 TA14	MED - TABLE-OPERATING MED - TABLE-OVERBED-PATIENT
TA36	MED - TABLE-OPERATING-FRACTURE TABLE
TA37	MED - TABLE-OPERATING-SPINE TABLE
TA38 TE1	TABLE- OPERATING- SHOULDER/EYE GEN - TELEPHONE-WALL
TE2	GEN - TELEPHONE-WALL GEN - TELEPHONE-DESK
TV2	GEN - 43" TV-WALL MOUNTED-MEDICAL GRADE
TV4.1 WA2	GEN - 55" TV-WALL MOUNTED (LANDSCAPE) MED - WARMER-BLANKET-FULL HEIGHT-GLASS DOOR
WA5	MED - WARMER-BLANKET-FULL HEIGHT-GLASS DOOR MED - WARMER-IV/BLOOD-COUNTER
WA19	MED - PATIENT WARMER - BAIR PAW (FOR BAIR PAW GOWN)
WH1	MED - WASTE-BIO HAZARD
WH2 WH4	MED - HAMPER-LINEN (W. CLOSE LID) MED - SHARP CONTAINER-WALL
WH9	MED - KICK BUCKET
WH10	MED - WASTE-SHARP CONTAINER TROLLEY-8 GAL
WH10.1	MED - WASTE-SHARP CONTAINER-FLOOR (8 GAL)
WH11	GEN - WASTE CAN (7 GAL.)
WH13 WH17.2	GEN - WASTE CAN (23 GAL.) GEN - WASTE CAN W. DOLLY (44 GAL.)
WH29	GEN - LINEN TRUCK-BULK
WH30	GEN - CART - DIRTY LINNEN TRUCK 28X48X67inch
WH31.2 WM1	GEN - HOUSEKEEPING CART
WWNT	MED - WASTE MANAGEMENT SYSTEM-LIQUID-ROVER MED - WASTE MANAGEMENT SYSTEM-DOCKING STATION
WM2 WM2.1	MED - WASTE MANAGEMENT SYSTEM-LIQUID-DOCKING
WM2	MED - WASTE MANAGEMENT SYSTEM-LIQUID-DOCKING MED - IMAGING-C-ARM WORKSTATION

KEYED NOTES

912.0 SCHEDULED BASE 2303.1 LOW RETURN GRILLE, PAINTED WHERE EXPOSED





 REV
 DATE
 DESCRIPTION

 1
 2020-11-20
 ADD 001

2020.10.30

CLIENT NUMBER: DATE:

SURGERY CENTER EXPANSION **ATORY** MCKAY-DEE AMBUL

ENLARGED PLAN + ELEVATIONS - OPERATING

ARCHITECTURE 524 SOUTH 600 EAST SALT LAKE CITY, UT 84102



REV DATE DESCRIPTION

CLIENT NUMBER:

2020.10.30

ATORY SURGERY CENTER EXPANSION

MBUL **A**

ELEVATIONS - PATIENT/STAFF TOILETS

MCKAY-DEE

NON-BEARING METAL HEADER SCHEDULE

MAXIMUM SPAN	HEADER	FY
4'-0"	(2) 400\$137-43	33 ksi
6'-0"	(2) 600\$162-43	33 ksi
8'-0"	(2) 800\$162-43	33 ksi
	•	

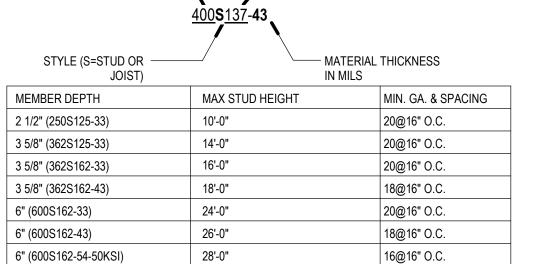
METAL STUD HEADER NOTES:

MEMBER DEPTH IN 1/100 —

- 1. SCHEDULE TO BE USED FOR NON-BEARING WALLS.
- 2. HEADERS TO BE CONSTRUCTED AS BOX HEADERS PER SSMA STANDARDS.
- 3. SEE TYPICAL DETAIL FOR MORE INFORMATION.

INCHES

NON-BEARING METAL STUD GAUGE SIZING



FLANGE WIDTH IN 1/100

METAL STUD NOTES:

- 1. STEEL STUDS SHALL MEET ICC REPORT ER-4943P AND THE SSMA STANDARDS. HEIGHT BASED ON SSMA 2001 CATALOG AND PROJECT REQUIREMENTS.
- 2. SEE SCHEDULE FOR STUD SPACING AND GAUGE. ALL STUDS AND BRACES SHALL BE 33 KSI UNLESS NOTED OTHERWISE IN THESE DRAWINGS.
- 3. AT ALL DOORS PROVIDE TWO TABBED 18 GAUGE STUDS AT BOTH SIDES OF JAMB.

PARTITION + FRAMING GENERAL NOTES

FRAMED WALL PARTITIONS

. PARTITION TYPE INDICATIONS <u>ARE INDEPENDENT</u> 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.

SHALL GOVERN. SUCH REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO:

TO THE CONSTRUCTION OF CONCRETE, MASONRY AND STUD WALLS

NOTIFY ARCHITECT OF ANY DISCREPANCIES.

- . 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.
- 3. 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
- 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.
- 4. 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
- 5. PROVIDE FIRE RATED CONSTRUCTION ASSEMBLIES WHERE INDICATED ON SHEETS G100's AND FLOOR PLAN DRAWINGS.
- 6. 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. 7. 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,
- 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
- 10. REFER TO SHEET <u>A520</u> 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

INSTALL PER DETAILS ON SHEET **A520** FOR CONTROL JOINTS.

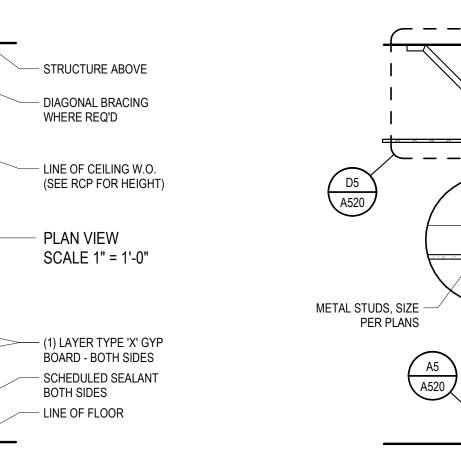
12. AT WALL OPENINGS FOR PENETRATION OF PIPES, DUCTS, DEVICES, ETC., GYPSUM BOARD IS TO BE CUT TO MATCH THE SHAPE AND DIMENSION OF THE PENETRATING OBJECT AND THE GAP BETWEEN THE OBJECT AND THE WALL IS TO BE SEALED W/ ACOUSTICAL OR FIRE SEALANT ON ALL SIDES WITH A 3/4" JOINT AT ALL SIDES, MAXIMUM. THE 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.

LOCATION WHERE POSSIBLE. CONSULT WITH ARCHITECT PRIOR TO COMMENCING FRAMING.

- 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
- 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.

ARCHITECTURAL FINISH PLANS AND ELEVATIONS.

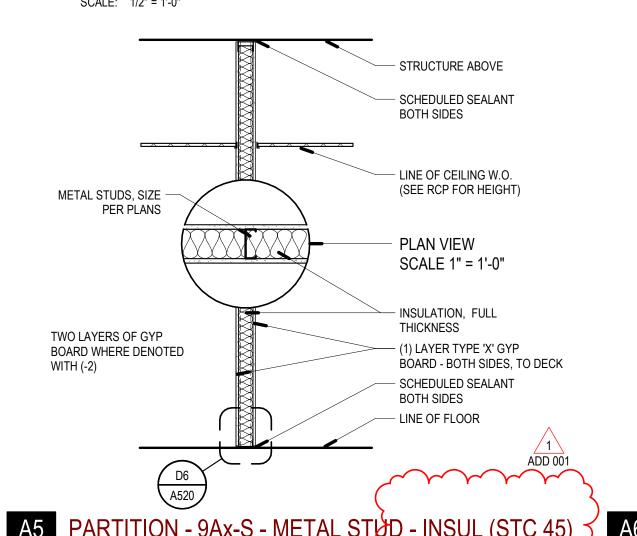
- a. WHERE CERAMIC TILE FINISHES ARE INDICATED PER THE FINISH PLANS AND/OR INTERIOR ELEVATIONS.
- b. AT OTHER LOCATIONS AS INDICATED BY THE ARCHITECTURAL FINISH PLANS AND ELEVATIONS. 17. WHERE NEW WALLS OR FURRING ARE INDICATED TO BE DIMENSIONED OFF OF AN EXISTING WALL,
- THE NEW WALL SHALL BE STRAIGHT AND PLUMB REGARDLESS OF THE CONDITION OF THE EXISTING
- 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.
- 19. THE AIR INFILTRATION BARRIER IS TO WRAP INTO ALL WINDOW AND DOOR OPENINGS.



D5 A520

METAL STUDS, SIZE

PER PLANS



SALT LAKE CITY, UT 84102



DATE DESCRIPTION

20320 2020.10.30

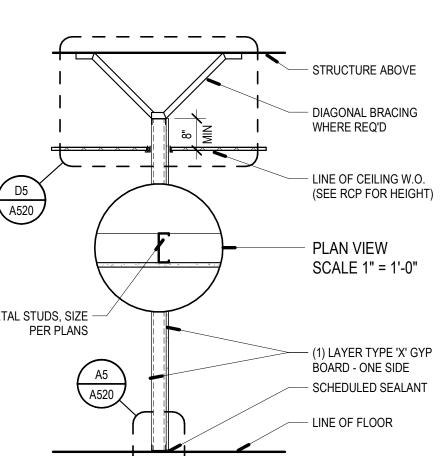
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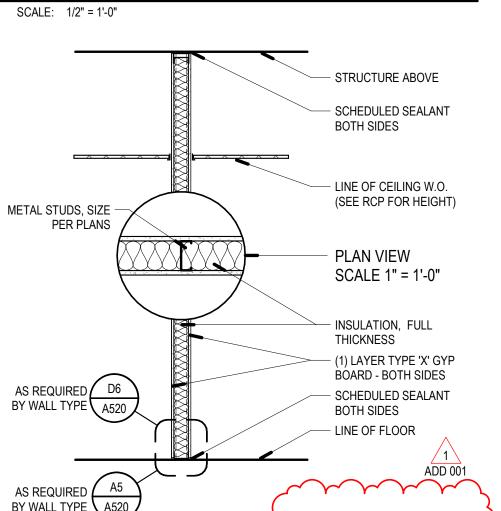
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TORY

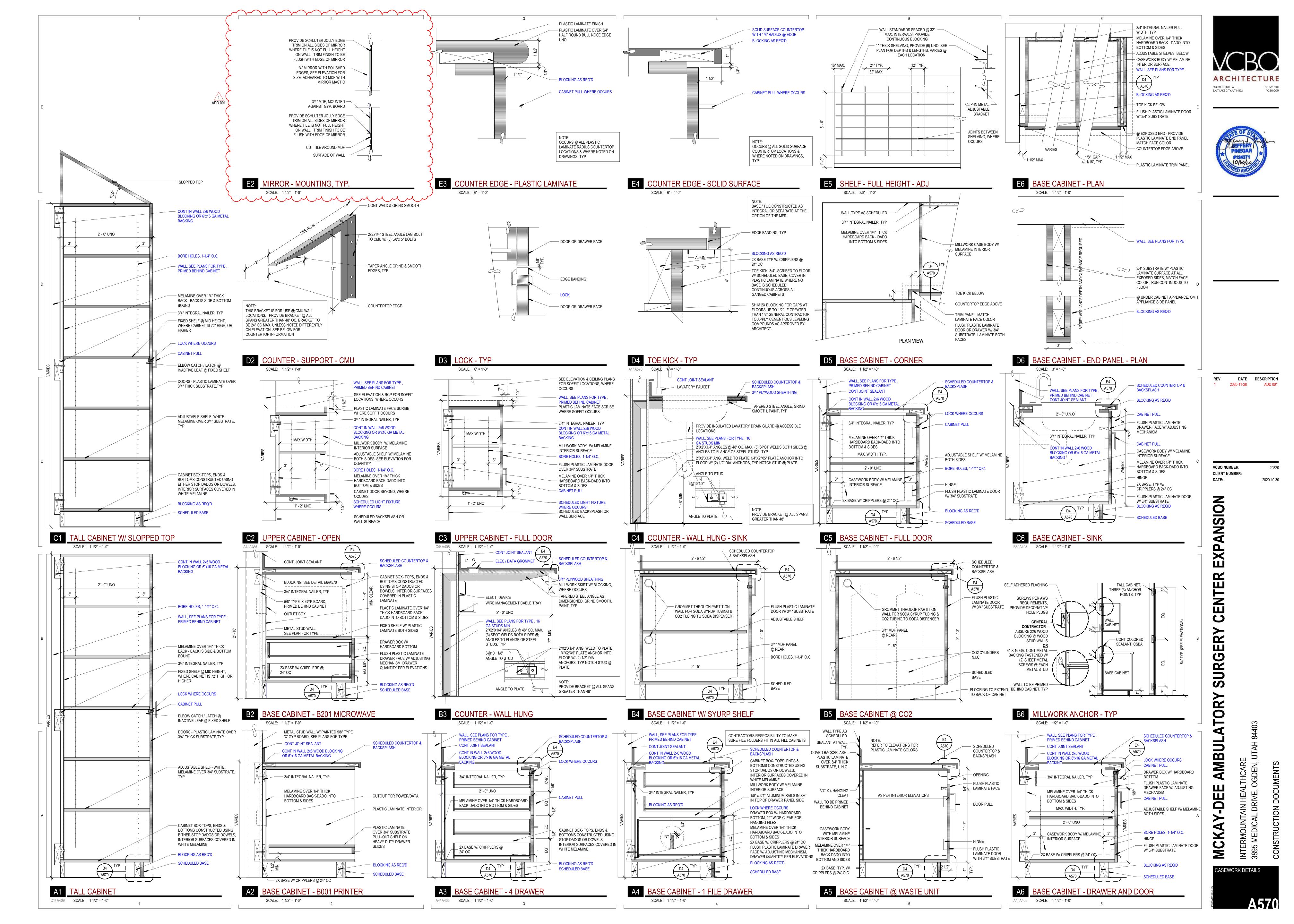
MBUL

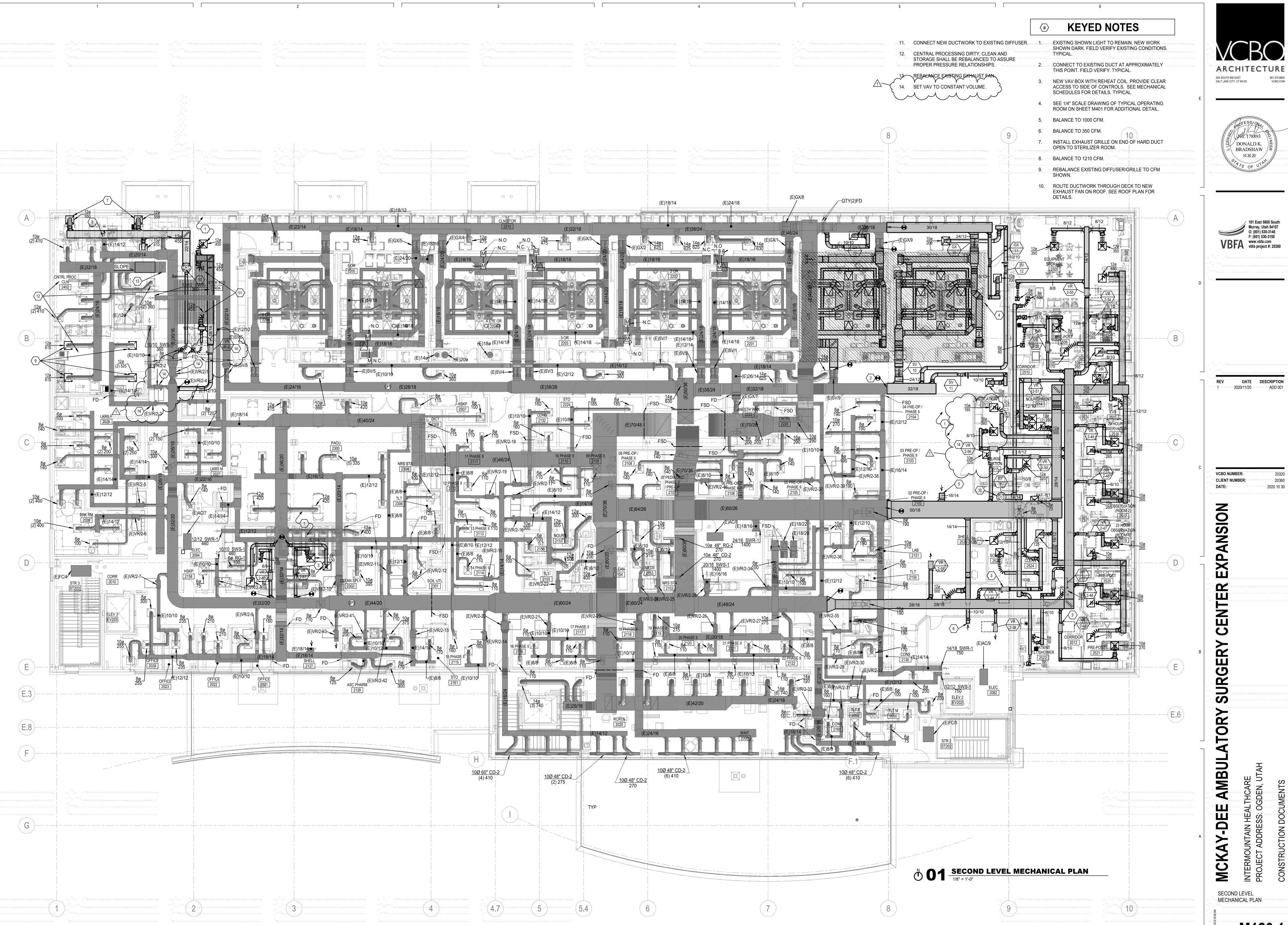
-DEE



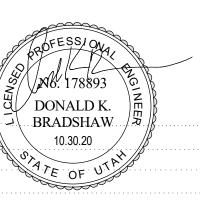


MC WALL TYPES + GENERAL





ARCHITECTURE







M120.1

					FAN SCH	IEDULE										
					AIR		FAN		ELECTRICA	\L				PHYSICAL		
					MAXIMUM									LENGTH/		1
	MANUFACTURER				AIRFLOW	STATIC	OUTLET	FAN	MOTOR	MOTOR	MOTOR			WIDTH/		
	AND	AREA			RATE	PRESSURE	VELOCITY	SPEED	SIZE	BHP	SPEED		EMERGENCY	HEIGHT	WEIGHT	
ID	MODEL NUMBER	SERVED	LOCATION	TYPE	(CFM)	(IN. WATER)	(FPM)	(RPM)	(HP)	(HP)	(RPM)	VOLT/PH/HZ	POWER	(IN)	(LBS)	NOTES
EF-1	COOK 101R28D	GENERAL EXHAUST, EAST	ROOF	UPBLAST	900	0.75	800	2425	0.5	0.36	2800	115/1/60	NO	24/24/21	33	(1)(2)
EF-2	COOK 135R17D	CENTRAL PROCESSING	ROOF	UPBLAST	1610	0.75	818	1553	0.5	0.41	1725	115/1/60	NO	31/31/28	37	(1)(2)

(1) ALL CAPACITIES AT 4,500 FEET ELEVATION.

(2) ROOF MOUNTED DIRECT DRIVEN EXHAUST FAN. COMPLETE WITH DC BRUSHLESS MOTOR (MINIMUM 85% EFFICIENT), INTEGRAL THERMAL OVERLOAD PROTECTION, ELECTRICAL DISCONNECT BY DIVISION 26,

0-10 VDC CONTROLLER, MOTORIZED BACKDRAFT DAMPER WITH ENDSWITCH AND INTERLOCK BY MECHAN

				AIR				FLUID (2)	1		
				COOLING	HEATING		LEAVING	1 2 3 2 (2)	TOTAL		
	MANUFACTURER		INLET	MAXIMUM	MAXIMUM	MINIMUM	AIR TEMP.	HEAT	FLUID		
	AND	AREA	SIZE	AIR	AIR	AIR	DB	LOAD	FLOW	WORKING	
ID	MODEL NUMBER	SERVED	(IN)	(CFM)	(CFM)	(CFM)	(DEG. F)	(MBH)	(GPM)	FLUID	REMARKS
LEVEL 2				(-)	(-)	(- /			(-)		
VR-2-44	PRICE SDV	CLEAN 2524	6	235	235	235	100.0	6.1	1.0	WATER	(1)(2)(3)(4)
VR-2-45	PRICE SDV	PRE-POST 2521	6	270	270	270	100.0	7.0	1.0	WATER	(1)(2)(3)(4)
VR-2-46	PRICE SDV	PRE-POST 2520	6	265	265	265	100.0	6.8	1.0	WATER	(1)(2)(3)(4)
VR-2-47	PRICE SDV	23 HOURS OBSERVATION 2519	6	265	265	265	100.0	6.8	1.0	WATER	(1)(2)(3)(4)
VR-2-48	PRICE SDV	24 HOURS OBSERVATION 2517	6	265	265	265	100.0	6.8	1.0	WATER	(1)(2)(3)(4)
VR-2-49	PRICE SDV	25 HOURS OBSERVATION 2516	6	265	265	265	100.0	6.8	1.0	WATER	(1)(2)(3)(4)
VR-2-50	PRICE SDV	NURSE STATION 2515	6	325	250	80	100.0	6.4	1.0	WATER	(1)(2)(3)(4)
VR-2-51	PRICE SDV	NOURISHMENT 2514	8	500	370	160	100.0	9.5	1.5	WATER	(1)(2)(3)(4)
VR-2-52	PRICE SDV	CORRIDOR 2510	6	320	320	320	100.0	8.2	1.0	WATER	(1)(2)(3)(4)
VR-2-53	PRICE SDV	PRE-POST 2508	6	230	230	230	100.0	5.9	1.0	WATER	(1)(2)(3)(4)
XR-2-54	PRICE SDV	PRE-POST 2509	6	265	265	265	100.0	6.8	4.0	WATER	(1)(2)(3)(4)
VR-2-55 V	PRICE SDV	EQUIPMENT STORAGE 2505	16	700	780	700	Y _{100.0}	Y _{8.0}	2.0 Y	WATER	(1)(2)(3)(4)
VR-2-56	PRICE SDV	MEDICATION 2513	6	260	260	260	100.0	6.7	1.0	WATER	(1)(2)(3)(4)
VR-2-57	PRICE SDV	CORRIDOR 2512	Å	300	300	300	100.0	√7.7	1.0	WATER	(1)(2) (3)(4)
VR-2-58	PRICE-SDV	SHELL	6	350	250	80	100.0	6.4	1.0	WATER	(1)(2)(3)(4)
VR-2-59	PRICE SDV	SHELL 2529	10	1000	700	250	100.0	18.0	2.0	WATER	(1)(2)(3)(4)
VR-2-60	PRICE SDV	VENDOR WORKROOM	6	150	120	80	100.0	3.1	1.0	WATER	(1)(2)(3)(4)
VR-2-61	PRICE SDV	BED STORAGE	6	150	120	80	100.0	3.1	1.0	WATER	(1)(2)(3)(4)
VR-2-62	PRICE SDV	CENTRAL PROCESSING CLEAN	12	1415	1415	1415	100.0	36.5	2.5	WATER	(1)(2)(3)(4)

(1) ENTERING AIR AT 52 DEG. F. @ 4,500 FEET ELEVATION.

(2) GPM BASED ON 140 DEG. F. ENTERING WATER TEMPERATURE; 110 DEG. F. LEAVING WATER TEMPERATURE.

(3) COIL MAXIMUM WATER P.D. AT 5.0 FT HD; MAXIMUM BOX AIR P.D. IS 0.40 IN. W.G. COILS SHALL BE A MINIMUM TWO ROW.

(4) PRESSURE INDEPENDENT TYPE BOX.

JM 85% EF CHANICAL	,.	KAL THERMAL OVERLO	AD PROTECTION, ELECTRICAL DISCONNE	CL BA DIVIZI	JN 26,									CD-2	EH PRICE	LFD	24 x 24 24 x 48	120 240	25 INTERIOR BAFFLES, AND DIFFUSER BACK PAN PLENUM SHALL BE STAINLESS STEEL WITH CONTINUOUSLY WELDED JOINTS. DIFFUSER FACE TO BE EQUIPPED WITH QUICK RELEASE FASTENERS FOR EASY REMOVAL OF FACE FOR CLEANING.
				VAV B	OX SCH	IEDULE													OLLANING.
					AIR		1	1	FLUID (2))	1								MODULAR SLOT SUPPLY DIFFUSER FOR OPERATING ROOM APPLICATION.
		MANUFACTURER		INLET	COOLING MAXIMUM	HEATING MAXIMUM	MINIMUM	LEAVING AIR TEMP.	HEAT	TOTAL FLUID				CD-3	EH PRICE	HORD	SEE PLANS	40 CFM/FT	STAINLESS STEEL CONSTRUCTION WITH TWO SLOTS AND FIXED PATTERN 25 DEFLECTORS. PLENUM SHALL HAVE STAINLESS STEEL INLET COLLAR
			ADEA								MODKING								AND DAMPER. DAMPER SHALL BE OPPOSED BLADE TYPE WITH STAINLESS
	ID.	AND	AREA	SIZE	AIR	AIR	AIR	DB	LOAD	FLOW	WORKING	DEMARKO							STEEL CONSTRUCTION. DIFFUSER FACE TO BE ATTACHED WITH QUICK
	ID ID	MODEL NUMBER	SERVED	(IN)	(CFM)	(CFM)	(CFM)	(DEG. F)	(MBH)	(GPM)	FLUID	REMARKS							RELEASE FASTENERS AND SAFETY CABLE TO ALLOW FOR CLEANING.
	LEVEL 2	DDICE CDV	OLEAN OFOA	0	225	225	225	400.0	0.4	4.0	WATER								
	VR-2-44	PRICE SDV	CLEAN 2524	6	235	235	235	100.0	6.1	1.0	WATER	(1)(2)(3)(4)					6" DIA	100	PERFORATED FACE RETURN AIR GRILLE, REMOVABLE FACE & CORE.
	VR-2-45	PRICE SDV	PRE-POST 2521	6	270	270	270	100.0	7.0	1.0	WATER	(1)(2)(3)(4)					8" DIA	210	FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED
	VR-2-46	PRICE SDV	PRE-POST 2520	6	265	265	265	100.0	6.8	1.0	WATER	(1)(2)(3)(4)		RG-1 / EG-1	EH PRICE	PDDR	10" DIA	380	30 BY CEILING TYPE. LAY-IN FRAMES SHALL BE 24" x 24", 24" x 12" OR
	VR-2-47	PRICE SDV	23 HOURS OBSERVATION 2519	6	265	265	265	100.0	6.8	1.0	WATER	(1)(2)(3)(4)					12" DIA	600 750	12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. AIR
	VR-2-48	PRICE SDV	24 HOURS OBSERVATION 2517	6	265	265	265	100.0	6.8	1.0	WATER	(1)(2)(3)(4)					14" DIA 15"x15"	1200	QUANTITY SHALL MATCH ROOM SUPPLY OR EXHAUST AIR QUANTITY. PROVIDE ROUND NECK ADAPTER. COLOR SHALL BE WHITE.
	VR-2-49	PRICE SDV	25 HOURS OBSERVATION 2516	6	265	265	265	100.0	6.8	1.0	WATER	(1)(2)(3)(4)					10 X10	1200	THO WIDE NOON DIVERSITY TEN. GOEDING WEEDE WITTE.
	VR-2-50	PRICE SDV	NURSE STATION 2515	6	325	250	80	100.0	6.4	1.0	WATER	(1)(2)(3)(4)							
	VR-2-51	PRICE SDV	NOURISHMENT 2514	8	500	370	160	100.0	9.5	1.5	WATER	(1)(2)(3)(4)							SINGLE DEFLECTION ALUMINUM SIDE WALL EXHAUST REGISTER. HORIZONTAL
	VR-2-52	PRICE SDV	CORRIDOR 2510	6	320	320	320	100.0	8.2	1.0	WATER	(1)(2)(3)(4)		SWR-1	EH PRICE	630	SEE PLANS	SEE PLANS	30 DEFLECTION VANES SPACED AT 3/4" O.C. COMPLETE WITH O.B.D. ADJUSTABLE
	VR-2-53	PRICE SDV	PRE-POST 2508	6	230	230	230	100.0	5.9	1.0	WATER	(1)(2)(3)(4)							THROUGH FACE. COLOR SHALL BE WHITE.
7/	VR-2-54	PRICE SDV	PRE-POST 2509	6	265	265	265	100.0	6.8	12	WATER	(1)(2)(3)(4)							
	/ VR-2-55	PRICE SDV Y	EQUIPMENT STORAGE 2505	10	700 Y	700	700	400.0	Y _{8.0}	_{2.0} Y	WATER	(1)(2)(3)(4)	5						
(VR-2-56	PRICE SDV	MEDICATION 2513	6	260	260	260	100.0	6.7	1.0	WATER	(1)(2)(3)(4)	\						
	VR-2-57	PRICE SDV	A CORRIDOR 2512	Á	300/	300	3,00	1 00.0	₹7.7	الر1.0	WATER	(1)(21(3)(4)							
	VR-2-58	PRICE-SDV	SHELL	6	350	250	80	100.0	6.4	1.0	WATER	(1)(2)(3)(4)							
	VR-2-59	PRICE SDV	SHELL 2529	10	1000	700	250	100.0	18.0	2.0	WATER	(1)(2)(3)(4)							
	VR-2-60	PRICE SDV	VENDOR WORKROOM	6	150	120	80	100.0	3.1	1.0	WATER	(1)(2)(3)(4)							
	VR-2-61	PRICE SDV	BED STORAGE	6	150	120	80	100.0	3.1	1.0	WATER	(1)(2)(3)(4)							
	VR-2-62	PRICE SDV	CENTRAL PROCESSING CLEAN	12	1415	1415	1415	100.0	36.5	2.5	WATER	(1)(2)(3)(4)							
	1 - 1 - 1						115		1			(1)(2)(3)(4)							
	1	1		1		1	1	1	1	1	1	1							

									AIF	R CONTE	ROL VAI	LVE S	CHE	DULE													
			SUPPLY																			GENERAL EXHAUST					
				AIR								FLUID					COIL										
				COOLING	HEATING	OCCUPIED	UNOCCUPIED		ENTERING	MINIMUM	S.P. LOSS		TOTAL	ENTERING/		MAX. FLUID			COIL	AIR					UNOCCUPIED	S.P. LOSS	
		MANUFACTURER	INLET	MAXIMUM	MAXIMUM	MINIMUM	MINIMUM	AIRFLOW	AIR TEMP.	LEAVING	AT MAX	HEAT	FLUID	LEAVING		PRESSURE	MIN.	MIN.	SIZE	PRESSURE	PIPE	INLET	MAXIMUM	MINIMUM	MINIMUM	AT MAX	
AREA		AND	DIA.	AIRFLOW	AIRFLOW	AIRFLOW	AIRFLOW	DRIVING	DB	AIR TEMP.	CFM	LOAD	FLOW	FLUID TEMP.	WORKING	DROP	COIL	FINS	HxW	DROP	SIZE	DIA.	AIRFLOW	AIRFLOW	AIRFLOW	CFM	
SERVED	ID	MODEL NUMBER	(IN)	(CFM)	(CFM)	(CFM)	(CFM)	FACTOR	(DEG. F)	(DEG. F)	(IN H20)	(MBH)	(GPM)	(DEG. F)	FLUID	(FT)	ROWS	(FPI)	(IN)	(IN. W.G.)	(IN)	(IN)	(CFM)	(CFM)	(CFM)	(IN H20)	NOTES
LEVEL 2																											
OR #7	SV-9	PHOENIX HSA212M-ALBHZ-PLS	2x12	2600	2600	2000	600	LOAD	52	86	0.6	81.3	5.6	140/110	WATER	5.0	3	6	18x24	0.4	1						(1)(2)
	GX-9	PHOENIX HEA212M-ALNHZ-PLS																				2x12	2350	1750	350	0.6	(1)(2)
OR #8	SV-10	PHOENIX HSA212M-ALBHZ-PLS	2x12	2600	2600	2000	600	LOAD	52	86	0.6	81.3	5.6	140/110	WATER	5.0	3	6	18x24	0.4	1						(1)(2)
	GX-10	PHOENIX HEA212M-ALNHZ-PLS																				2x12	2350	1750	350	0.6	(1)(2)
OR CORRIDOR 2002	SV-11	PHOENIX HSA112M-ALBHZ-PLS	10	200	200	200		LOAD	52	86	0.6	6.3	1.75	140/110	WATER	5.0	3	6	10x10	0.24	3/4						(1)(2)
	GX-11	PHOENIX HEA114M-ALNHZ-PLS																				10	200	200		0.6	(1)(2)
CLEAN CORE 2210	SV-12	PHOENIX HSA114M-ALBHZ-PLS	10	200	200	200		LOAD	52	86	0.6	6.3	1.75	140/110	WATER	5.0	3	6	10x10	0.24	3/4						(1)(2)
	GX-12	PHOENIX HEA212M-ALNHZ-PLS																				10	200	200		0.6	(1)(2)

(1) ALL CAPACITIES AT 4,500 FT ELEVATION.

(2) PRESSURE INDEPENDENT CONTROL VALVE. VALVE SHALL BE EQUIPPED WITH PRESSURE SWITCH.



GRILLES, REGISTERS AND DIFFUSERS

DESCRIPTION

SQUARE PLAQUE CEILING DIFFUSERS. REMOVABLE FACE & CORE

OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE.

BY CEILING TYPE. LAY-IN FRAMES SHALL BE 24" x 24", 24" x 12"

PROVIDE ROUND NECK ADAPTER. COLOR SHALL BE WHITE.

FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED

STAINLESS STEEL LAMINAR FLOW DIFFUSER FOR OPERATING ROOM

APPLICATION. THE PERFORATED FACE PLATE, DAMPER DEFLECTOR,

CFM NC

SIZE

6" DIA

8" DIA

10" DIA

12" DIA

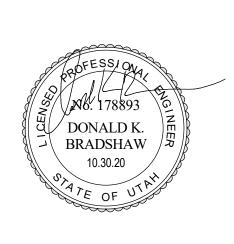
14" DIA

MODEL

SPD

MANUFACTURER

EH PRICE

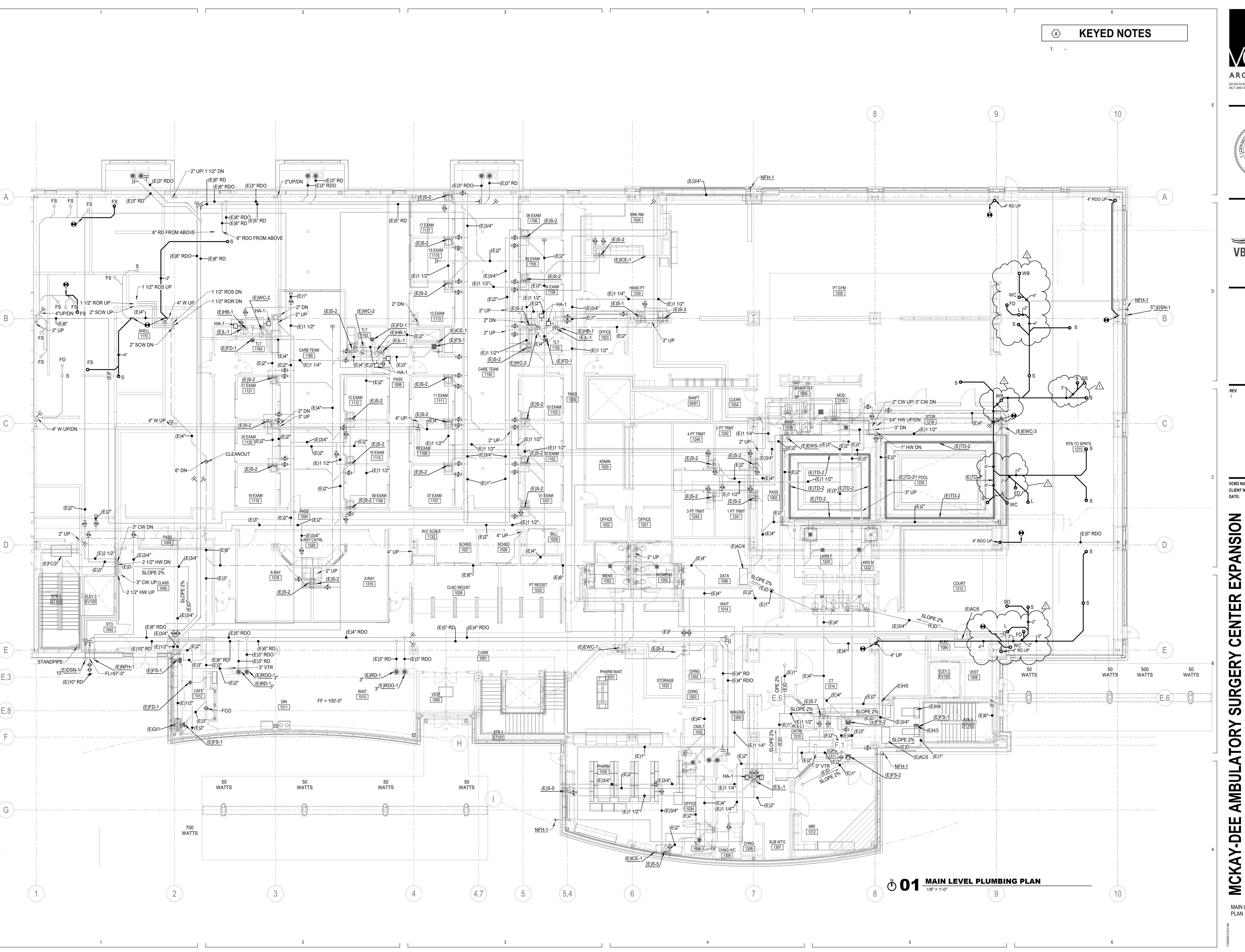




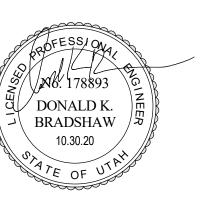


CBO NUMBER:	20320
LIENT NUMBER:	20360
ATE:	2020 10 30

MCKAY-DEE AI



524 SOUTH 600 EAST SALT LAKE CITY, UT 84102





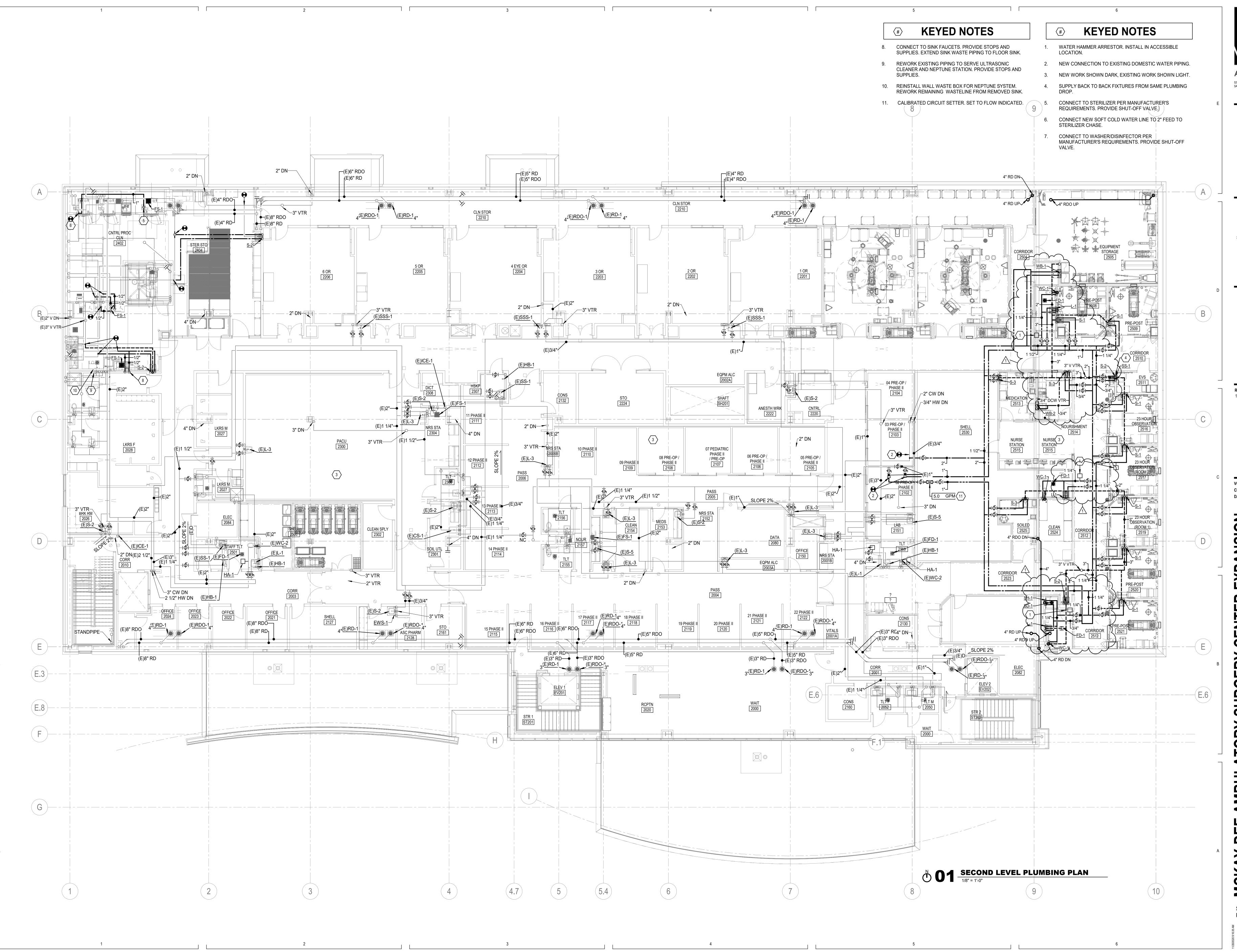


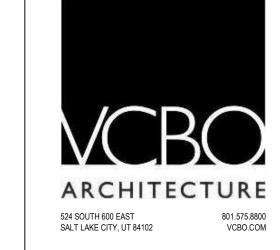


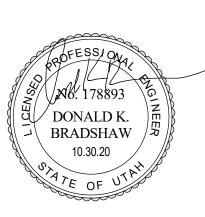


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P110.1











UNLESS NOTED OTHERWISE, ALL OUTLETS ARE CHEMETRON-STYLE QUICK-CONNECTS - SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS

OUTLETS IN "MEDICAL EQUIPMENT" ARE SUPPLIED WITH THE PIECE OF EQUIPMENT

1. PIPE DROP SIZES ARE FOR ONE SET OF OUTLETS

2. WALL MOUNTED OUTLETS3. OUTLETS IN OWNER-PROVIDED, CEILING-MOUNTED BOOM.

4. CONNECT INSTRUMENT AIR TO BOOM/COLUMN PNEUMATIC BRAKE. PROVIDE AND INSTALL 150 PSIG TO 45 PSIG PRESSURE REGULATOR ON INSTRUMENT AIR INLET

						PLUMBING FIXTU	JRE SCHEDULE
ID	FIXTURE	CW (IN)	HW (IN)	W (IN)	V (IN)	NOTES	FIXTURE SPECIFICATIONS
WC-1	WATER CLOSET	1	-	4	2	FLOOR MOUNTED, FLUSH VALVE, ADA	WATER CLOSET (FLOOR MOUNTED, FLUSH VALVE, ADA COMPLIANT): KOHLER K4405, HIGHLINE TOILET, VITREOUS CHINA, 1.28 GALLON FLUSH. ELONGATED BOWL DESIGN, 17-1/2" HIGH, SIPHON JET FLUSHING, 2-1/4" PASSAGEWAY, 1-1/2" TOP SPUD AND 52048 BOLT CAPS. BEMIS 3155-C "DURAGUARD" WHITE, SOLID PLASTIC, OPEN-FRONT SEAT, LESS COVER. SLOAN ROYAL MODEL 111-1.28 LOW CONSUMPTION 1.28 GPF MANUAL FLUSH VALVE.
L-1	LAVATORY	1/2	1/2	1 1/2	1 1/2	WALL HUNG, ADA, WRIST BLADES	PRIVATE LAVATORY (WALL HUNG, ADA): KOHLER K2006, KINGSTON, 21 X 18-INCH WALL HUNG, VITREOUS CHINA LAVATORY, CHICAGO NO. 786-GN8FCABCP CERAMIC QUARTER TURN OPERATING CARTRIDGE WITH 4" WRIST BLADE HANDLES AND 8" RIGID GOOSENECK SPOUT WITH 1.0 GPM LAMINAR FLOW CONTROL INSERT IN SPOUT INLET; OPEN-GRID STRAINER; POWERS 480 TEMPERING VALVE UNDER COUNTER THERMOSTATIC MIXING VALVE ON HOT WATER LINE WITH ZURN MODEL SXL STRAINERS AND ADDITIONAL ZURN MODEL 40XL CHECK VALVES ON HOT AND COLD WATER INLETS, FLEXIBLE SUPPLIES WITH LOOSE KEY CONTROL, ¾ TURN STOPS, CAST BRASS P-TRAP WITH CLEANOUT PLUG; CONCEALED ARM CHAIR CARRIER WITH FOOT SUPPORT. PROVIDE ADA COMPLIANT UNDER COUNTER PIPING VANDAL PROTECTION BY TRUE-BRO IMPACT RESISTANT LAV GUARD WITH TAMPER PROOF FASTENERS. MAINTAIN REQUIRED ADA CLEARANCES. PROVIDE 120V AC TRANSFORMER FOR SINGLE OR MULTIPLE FAUCETS AS REQUIRED.
S-1	WORK SINK	1/2	1/2	2	1 1/2	WALL HUNG, ADA, SENSOR FAUCET	KOHLER K2007, KINGSTON, 21 X 18-INCH WALL HUNG, VITREOUS CHINA LAVATORY, CHICAGO 116.429.AB.1 SENSOR FAUCET WITH ADJUSTABLE TEMPERATURE CONTROL MIXER, 1.5 GPM, GOOSENECK FAUCET WITH FLOW CONTROL IN BASE OF SPOUT; PROVIDE WITH 12 V AC TRANSFORMER. OPEN-GRID STRAINER. LFUSG-B-M2 THERMOSTATIC MIXING VALVE WITH SLOAN BASYS ETF-470-A SINGEL CHECKS IN HOT AND COLD SUPPLIES., FLEXIBLE SUPPLIES WITH LOOSE KEY CONTROL, 34 TURN STOPS, CAST BRASS P-TRAP WITH CLEANOUT PLUG; CONCEALED ARM CHAIR CARRIER WITH FOOT SUPPORT. PROVIDE ADA COMPLIANT UNDER COUNTER PIPING VANDAL PROTECTION BY TRUE-BRO IMPACT RESISTANT LAV GUARD WITH TAMPER PROOF FASTENERS. MAINTAIN REQUIRED ADA CLEARANCES.
S-2	WORK SINK	1/2	1/2	2	1 1/2	WALL HUNG, GOOSENECK; WRIST BLADES, ADA	LAVATORY: KOHLER K2030, GREENWICH, 20" X 18", VITREOUS CHINA, WITH FRONT OVERFLOW, 4" CENTERS. CHICAGO 786-GN8FCXKABCP FACUET, WITH WRIST BLADE HANDLES, GN8 RIGID/SWING GOOSENECK SPOUT WITH 1.5 GPM LAMINAR FLOW CONTROL IN SPOUT INLET, FIX SPOUT RIGID. WATTS LFUSG-B-M2 THERMOSTATIC MIXING VALVE WITH SLOAN BASYS ETF-470-A SINGEL CHECKS IN HOT AND COLD SUPPLIES. LOOSE KEY ANGLE STOPS WITH CHROME PLATED COPPER SUPPLIES AND 17 GA. CAST BRASS. CHICAGO 327-XCP OPEN-GRID STRAINER AND CAST BRASS P-TRAP WITH CLEAN OUT PLUG. SMITH 0700-Z CONCEALED ARM CHAIR CARRIER WITH FOOT SUPPORT. PROVIDE ADA COMPLIANT UNDER COUNTER PIPING WRAP BY TRUE-BRO, COLOR TO BE WHITE.
S-3	WORK SINK	1/2	1/2	2	2	SS COUNTER MOUNT, GOOSENECK; WRIST BLADES	WORK SINK: JUST SL-2122-A-GR 16" X 19" X 7-1/2" DEEP BOWL (INSIDE DIMENSIONS), COUNTER MOUNT SINGLE COMPARTMENT 18 GA. STAINLESS STEEL SINK, 8" CENTERS DRILLING. PROVIDE CHICAGO 786-GN8FCABCP FAUCET, NO. 317 4" WRIST BLADES, GN8 RIGID/SWING CONVERTIBLE GOOSE NECK WITH 1.5 GPM FC LAMINAR FLOW CONTROL IN SPOUT BASE AND PLAIN END SPOUT RING, FIX SPOUT RIGID. PROVIDE FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS; JUST J-35 STAINLESS STEEL CUP STRAINER AND CAST BRASS P-TRAP WITH CLEAN-OUT PLUG.
SH-1	SHOWER VALVE	1/2	1/2	-	-	WALL MOUNTED PRESSURE BALANCING VALVE, ADA	STAFF SHOWER (ADA COMPLIANT): SYMMONS 5505-T600B-36-V-X-231-1.5 TEMPTROL, PACKAGED LOW FLOW 1.5 GPM SHOWER UNIT WITH HAND SPRAY AND HOSE; PRESSURE BALANCE PISTON OPERATED VALVE, 4-231 SUPER SHOWERHEAD WITH ADJUSTABLE SPRAY; 300S ARM; FS HAND SPRAY UNIT WITH FLEXIBLE HOSE, SYMMONS 36" T600B ADA GRAB AND SLIDE BAR FOR HAND SHOWER MOUNTING, WALL CONNECTION AND IN-LINE VACUUM BREAKER; 4-458 LEVERTROL DIVERTER, DOUBLE OUTLET WITH VOLUME CONTROL FOR SHOWER HEAD AND HAND SPRAY.
SS-1	SERVICE SINK	1/2	1/2	3	1 1/2	FLOOR MOUNTED CORNER	SERVICE SINK (FLOOR MOUNTED): KOHLER K6710, WHITBY, 28 X 28-INCH, ENAMELED CAST IRON FLOOR-MOUNTED CORNER MODEL, K9146-3" DRAIN WITH STRAINER, NO. K8940 REMOVABLE VINYL-COATED RIM GUARD; CHICAGO 897 FAUCET WITH VACUUM BREAKER, SCREWDRIVER STOPS IN SHANKS, 5 FOOT RUBBER HOSE AND 853 WALL HOOK.
FD-1	FLOOR DRAIN	-	-	2	1 1/2	GENERAL USE FLOOR DRAIN	FLOOR DRAIN: SMITH FIGURE 2005YB FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH 6-INCH SQUARE NICKEL BRONZE ADJUSTABLE STRAINER HEAD WITH SECURED GRATE. PROVIDE TRAP GUARD TYPE TRAP SEAL DEVICE.
FD-2	SHOWER DRAIN	-	-	2	1 1/2	CHROME PLATED GRATE	SHOWER DRAIN: SMITH 2005Y-CP FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH 6-INCH SQUARE CHROME PLATED ADJUSTABLE STRAINER STRAINDER HEAD WITH SECURED GRATE.
FS-1	FLOOR SINK	-	-	3	1 1/2	FOR STERILIZER AND WASHER	FLOOR SINK: SMITH FIGURE 3100Y CAST IRON FLANGED RECEPTOR WITH ACID RESISTANT INTERIOR COATING, NICKEL BRONZE RIM AND SECURED 1/2 GRATE AND ALUMINUM DOME BOTTOM STRAINER.
RD-1	ROOF DRAIN	-	-	-	-	SEE PLANS FOR SIZE	ROOF DRAIN: SMITH FIGURE 1010Y-R-C-CID CAST IRON BODY WITH COMBINED FLASHING CLAMP AND CAST IRON GRAVEL STOP, CAST IRON DOME, EXTENSION, SUMP RECEIVER AND UNDERDECK CLAMP.
RDO	ROOF DRAINOVERFLOW	\\		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-	SEE PLANS FOR SIZE	ROOP PRAIN: SMITHY-TIGURE 1010Y-R-C-CID CAST TRON BODY WITH COMBINED FLASHING CLAMP AND CAST IRON GRAVEL STOP, CAST IRON DOME, EXTENSION, SUMP RECEIVER AND UNDERDECK OLAMP, 2" WATER DAM.
WB-1	WATER OUTLET BOX	1/2	1/2	2	1 1/2	FLUSH MOUNTED IN WALL, HOT, COLD & DRAIN	WATER OUTLET BOX: WATER-TITE 82112 WASHING MACHINE OUTLET BOX WITH DRAIN. HOT AND COLD WATER CONNECTIONS WITH QUARTER TURN BALL VALVES FOR USE WITH NEPTUNE DOCKING STATION MACHINE. PROVIDE WITH PVC TRAF
WB-2	WATER OUTLET BOX	1/2	*-	2	1 1/2	FLUSH MOUNTED IN WALL, TWO COLD WATERS & DRAIN	WATER OUTLET BOX: WATER-TITE 82112 WASHING MACHINE OUTLET BOX WITH DRAIN, QUARTER TURN BALL VALVES FOR USE WITH ICE MACHINE AND COKE MACHINE. INSTALL TWO COLD WATER BALL VALVES. NOTCH COUNTERTOP BACK-SPLASH AND INSTALL OUTLET BOX DRAIN FLUSH WITH COUNTERTOP. PROVIDE WITH PVC TRAP.

1. ALL UNDER GROUND WASTE AND VENT SHALL BE 2" OR GREATER PER DRAWINGS.

2. PROVIDE SINK COMPLETE WITH ALL MOUNTED BED PAN WASHER WITH FOOT PEDAL CONTROLS

		MEDIC	CAL GAS AL	ARM PANEL	SCHEDULE				
					SERVICES T	O BE MONITORED			
	STATIONS								
SYMBOL	MONITORED	LOCATION	OX	MA	MV	N2O	CO2	N	REMARKS
MA-7	PRE/POST 23 HR	REGISTRATION	Х	-,-	Х	-,-	-,-		1,2

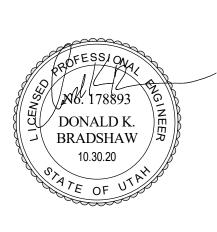
COORDINATE EXACT LOCATION WITH ARCHITECTURAL
 DEDICATED WIRING FROM SOURCE SIGNALS TO ALARM

				MEDICA	AL GAS V	ALVE SCHEDI	JLE			
						PIPE SIZE				
	SYMBOL	AREA SERVED		MA	MV	N V	N20 \	Ç02	WAGD	REMARKS
(MV-6	PRE/POST 23 HR	3/4"		1-1/2"	-,-	-,-	-,-	÷	1
5	MV-4	OPERATING ROOMS	1/2"	1/2"	1-1/4"	1/2"	1/2"	1/2"	3/4"	1,2

1. WITH GAUGES

2. STACKED VALVE BOXES: N2O, N, CO2 IN ONE BOX AND OX, MA, WAGD, MV IN THE OTHER. WRAP PIPING BEHIND THE VALVE BOX IN THE CONCEALED POCKET,

AS REQUIRED TO FIT IN THE AVAILABLE HORIZONTAL DIMENSION OF THE WALL







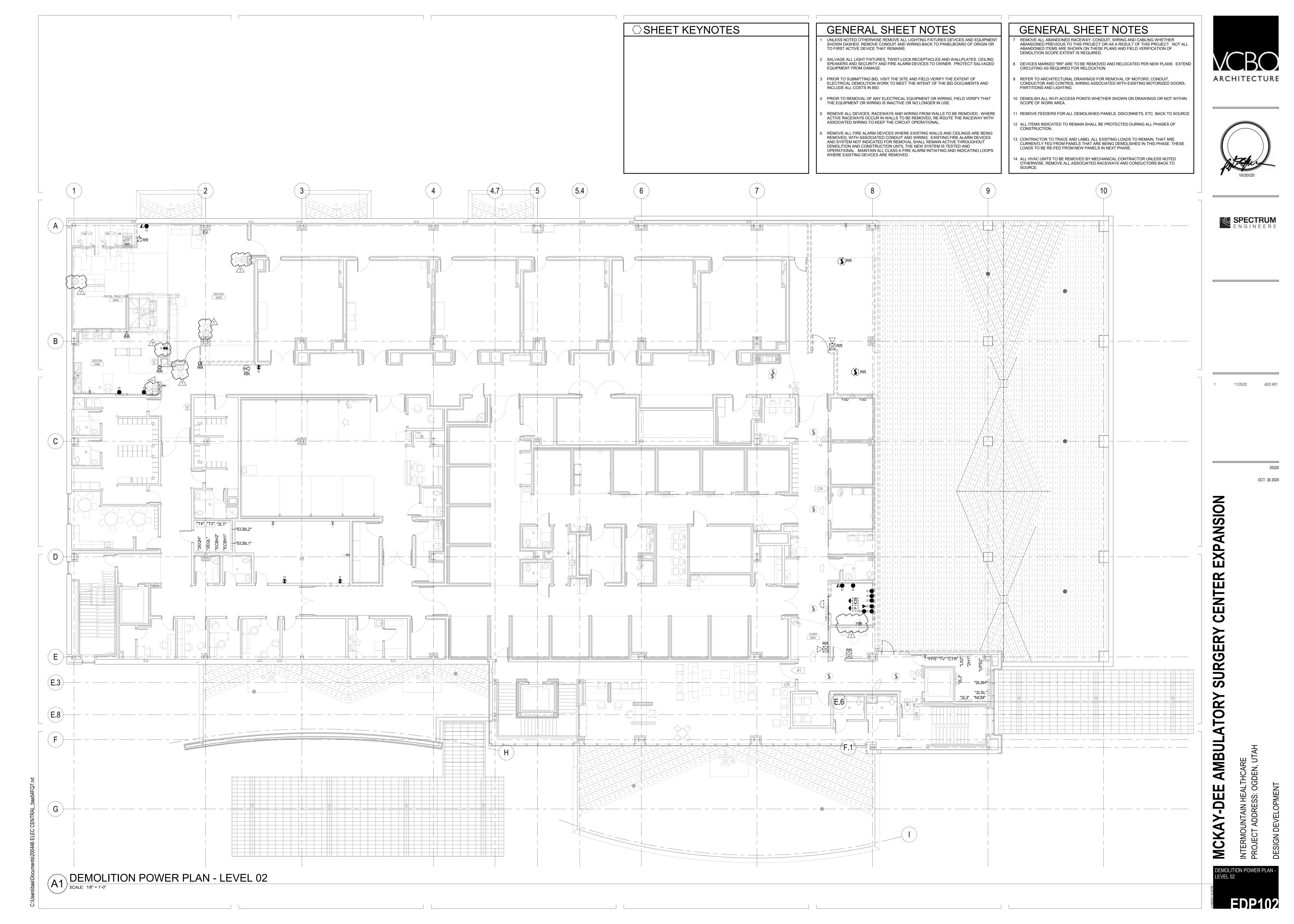
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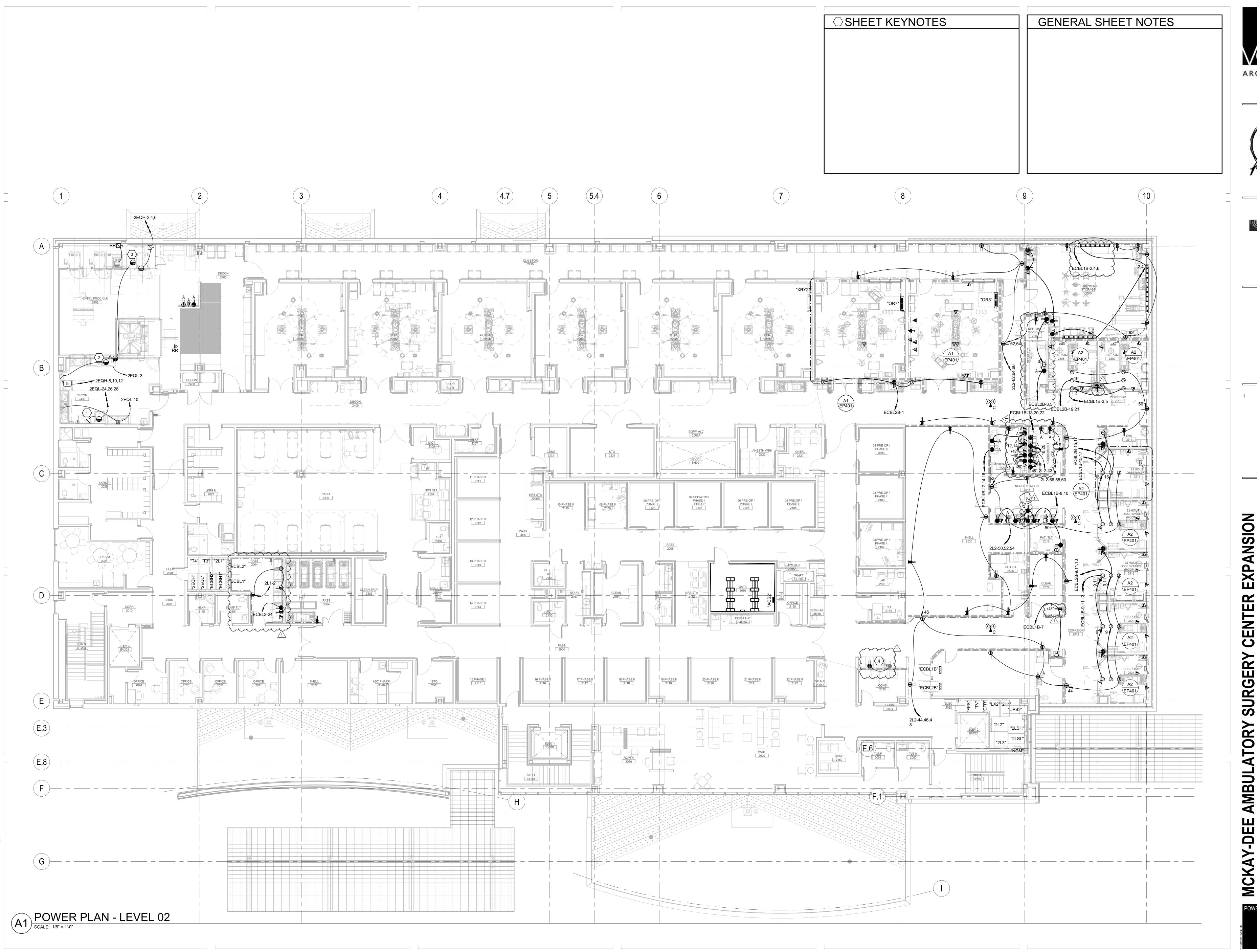
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ATORY SURGERY CENTER EXPANSION

CKAY-DEE AMBULAT

PLUMBING SCHEDULES





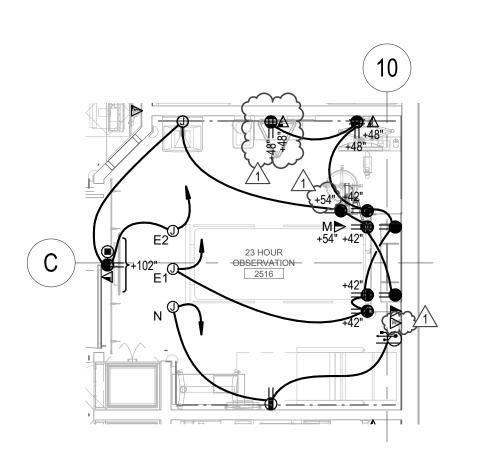






OCT. 30 2020

POWER PLAN - LEVEL 02 **EP102**



ENLARGED OBSERVATION ROOM
POWER PLAN
SCALE: 1/4" = 1'-0"

○SHEET KEYNOTES

1 PROVIDE THE FOLLOWING TO EQUIPMENT ROOM: FOUR EMERGENCY ISOLATED 120 VOLT CIRCUITS, FOUR DATA DROPS, AND 120 VOLT CRITICAL BRANCH CIRCUIT OFR BREAKS AND BOOM MOTOR.

2 PROVIDE THE FOLLOWING TO ANESTHESIA BOOM: THREE ISOLATED 120 VOLT CIRCUITS, FROM CRITICAL BRANCH #1, AND THREE ISOLATED 20 AMP CIRCUITS FROM CRITICAL BRANCH #2 AND SIX DATA DROPS. SEE STERIS DRAWINGS FOR ADDITIONAL CONTRACTOR INSTALLATION RESPONSIBILITIES. ALSO PROVIDE 120 VOLT CRITICAL BRANCH POWER FOR BREAKS AND BOOM MOTOR.

3 POWER FOR ELAPSED TIME AND CURRENT TIME DIGITAL CLOCKS. RESET BUTTON WILL MOUNT BELOW AT NURSE CHART STATION.

PROVIDE 120 VOLT POWER TO MONITOR/LIGHT BOOM LSD01. SEE STERIS DRAWINGS FOR ADDITIONAL CONTRACTOR INSTALLATION RESPONSIBILITIES AUDIO/VIDEO CONNECTIONS, AC LINE VOLTAGE AND DC CONNECTION AND COMMUNICATION CABLING.

5 120 VOLT POWER SUPPLY FOR OR ROOM SURGICAL LIGHT. RUN LOW VOLTAGE CABLING TO CONTROL PANEL, AND TO STERIS LIGHTING BOOM. SEE STERIS DRAWINGS FOR INSTALLATION INSTRUCTIONS.

6 L6 30R LASER RECEPTACLE. CIRCUIT TO EXISTING LASER ISOLATION PANEL (XRY2) IN OR#1. PROVIDE REMOTE MONITOR WITH RECEPTACLE.

PROVIDE FOUR DATA JACKS ABOVE CEILING ADJACENT TO T1 J-BOX.

8 SURGICAL LIGHTING CONTROL PANELS. RUN LOW VOLTAE CABLING TO POWER SUPPLY. SEE STERIS DRAWINGS.

9 PROVIDE DATA RECEPTACLE IN CEILING FOR STATUS CAMERA IN EACH OR ROOM.

10 RECEPTACLE LOCATED INSIDE PULL BOX V1.

11 POWER AND A/V CONNECTION FOR WALL MOUNT MONITOR.

GENERAL SHEET NOTES

VCBO ARCHITECTURE





11/20/20 ADD #01

203

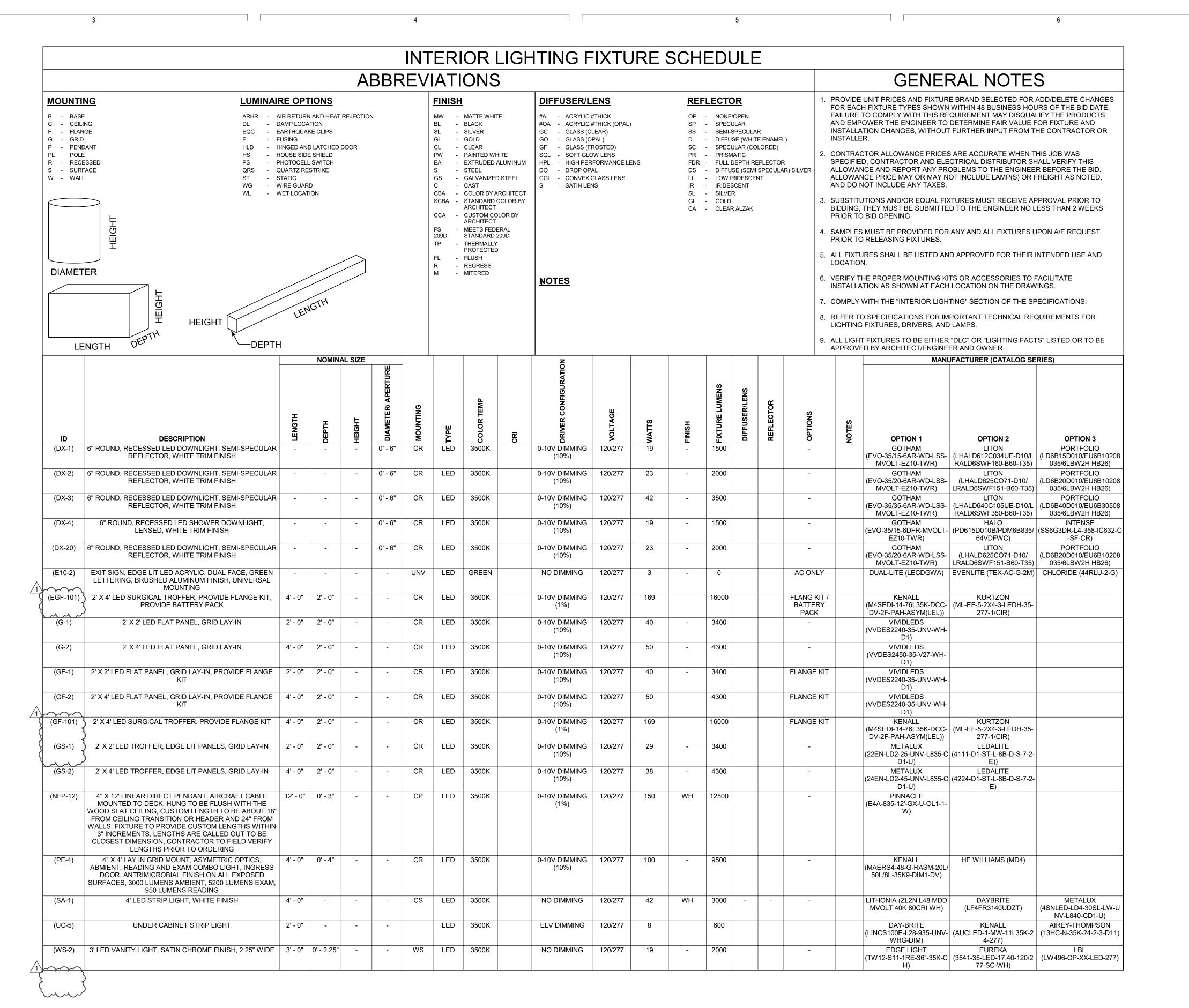
OCT. 30 2020

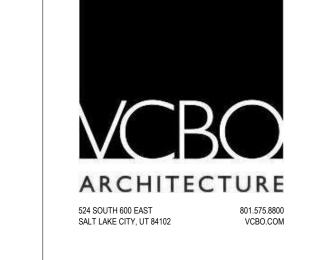
MCKAY-DEE AMBULATORY SURGERY CENTER EXPANSION

TERMOUNTAIN HEALTHCARE ROJECT ADDRESS: OGDEN, UTAH

ENLARGED / TYPICAL POWER PLANS

EP401







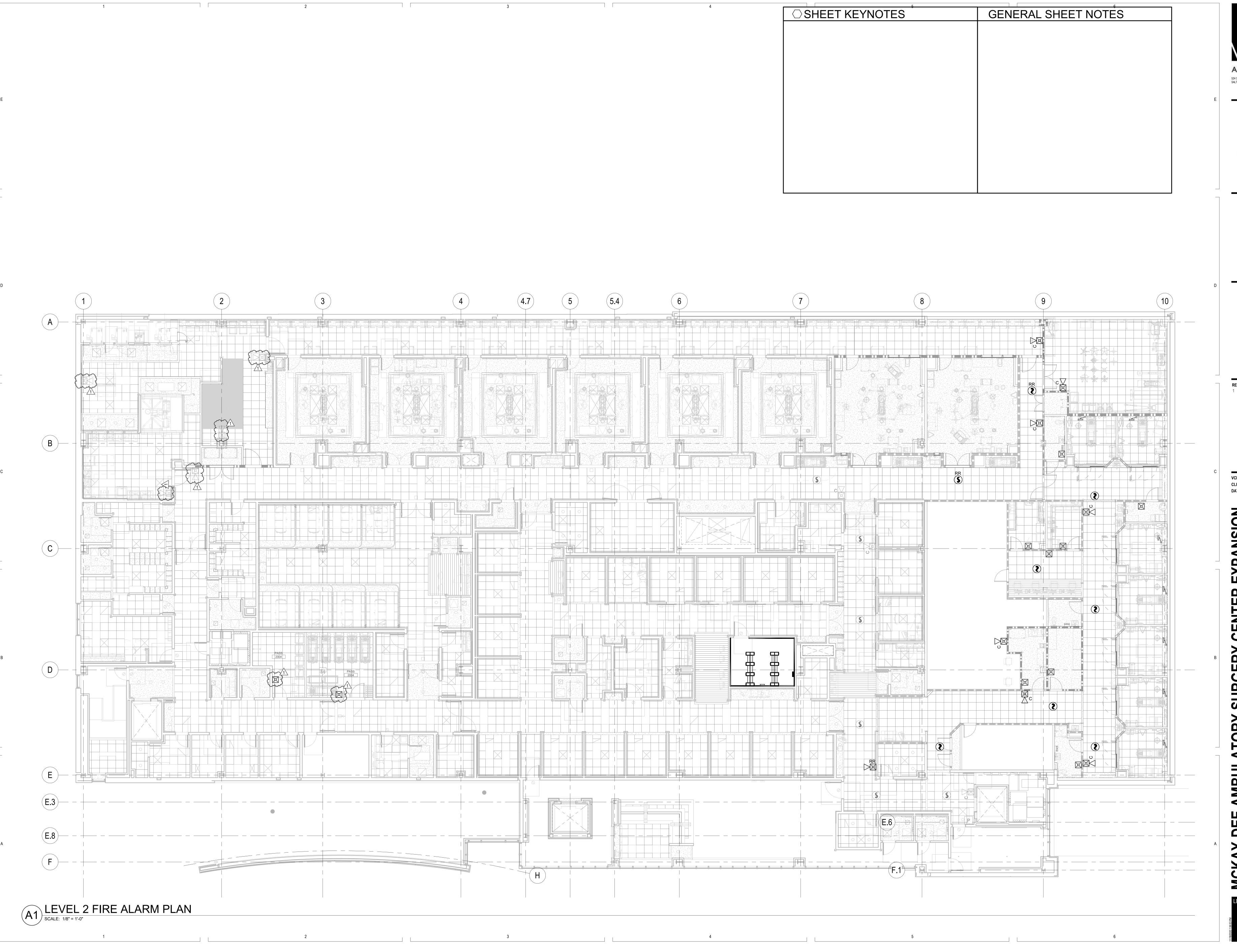


DATE DESCRIPTION

OCT. 30 2020

CLIENT NUMBER: DATE:

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VCBO NUMBER: 20
CLIENT NUMBER: OCT 20.2

BO NUMBER: 20320
ENT NUMBER:
FE: OCT. 30 2020

TE: OCT. 3

Y-DEE AMBULATORY SURGERY CENTER EXPA

INTERMOUNTAIN HEALTHCARE PROJECT ADDRESS: OGDEN, UTAH



SECTION 08 7100

DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes commercial door hardware for the following:
 - 1. Swinging doors.
 - 2. Sliding doors.
- B. Door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
 - 2. Electromechanical door hardware.

C. Related Sections:

- 1. Section 08 1113 "Hollow Metal Doors and Frames".
- 2. Section 08 4313 "Aluminum Entrances and Storefronts".
- 3. Section 08 1416 "Flush Wood Doors".
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 Accessible and Usable Buildings and Facilities.
 - 2. ICC/IBC International Building Code.
 - 3. NFPA 70 National Electrical Code.
 - 4. NFPA 80 Fire Doors and Windows.
 - 5. NFPA 101 Life Safety Code.
 - 6. NFPA 105 Installation of Smoke Door Assemblies.
 - 7. UL/ULC and CSA C22.2 Standards for Automatic Door Operators Used on Fire and Smoke Barrier Doors and Systems of Doors.
 - 8. State Building Codes, Local Amendments.
- E. **Standards**: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:
 - 1. ANSI/BHMA Certified Product Standards A156 Series.
 - 2. UL10C Positive Pressure Fire Tests of Door Assemblies.
 - 3. ANSI/UL 294 Access Control System Units.
 - 4. ULC-S319 Electronic Access Control Systems.
 - 5. ULC-60839-11-1, Alarm and Electronic Security Systems Part 11-1: Electronic Access Control Systems System and Components Requirements.
 - 6. UL 305 Panic Hardware.
 - 7. ULC-S132, Emergency Exit and Emergency Fire Exit Hardware.
 - 8. ULC-S533 Egress Door Securing and Releasing Devices.
 - 9. ANSI/UL 437- Key Locks.
 - 10. ULC-S328, Burglary Resistant Key Locks.

1.3 SUBMITTALS

- A. **Product Data**: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. **Door Hardware Schedule**: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 - Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 - 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - h. Warranty information for each product.
 - 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Shop Drawings: Details of electrified access control hardware indicating the following:
 - 1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
 - a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
 - Complete (risers, point-to-point) access control system block wiring diagrams.
 - c. Wiring instructions for each electronic component scheduled herein.
 - 2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.
- D. **Keying Schedule**: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

E. Informational Submittals:

- Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.
- F. **Operating and Maintenance Manuals**: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

1.4 QUALITY ASSURANCE

- A. **Manufacturers Qualifications**: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
- B. **Certified Products**: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).
- C.Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful inservice performance.
- D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.
- E. **Source Limitations**: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
 - 1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
 - 2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.
- F. **Each unit to bear third party permanent label** demonstrating compliance with the referenced standards.
- G.**Keying Conference**: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
 - 1. Function of building, purpose of each area and degree of security required.
 - 2. Plans for existing and future key system expansion.
 - 3. Requirements for key control storage and software.
 - 4. Installation of permanent keys, cylinder cores and software.
 - 5. Address and requirements for delivery of keys.

- H. **Pre-Submittal Conference**: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.
 - 1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
 - 2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
 - 3. Review sequence of operation narratives for each unique access controlled opening.
 - 4. Review and finalize construction schedule and verify availability of materials.
 - 5. Review the required inspecting, testing, commissioning, and demonstration procedures
- I. **At completion of installation**, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. **Inventory door hardware** on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. **Tag each item or package separately** with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. **Deliver, as applicable, permanent keys**, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.6 COORDINATION

- A. **Templates**: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.7 MAINTENANCE SERVICE

A. **Maintenance Tools and Instructions**: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. **General**: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.
- B. **Designations**: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:
 - 1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.
- C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 HANGING DEVICES

- A. **Hinges**: ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
 - 1. Quantity: Provide the following hinge quantity:
 - a. Two Hinges: For doors with heights up to 60 inches.
 - b. Three Hinges: For doors with heights 61 to 90 inches.
 - c. Four Hinges: For doors with heights 91 to 120 inches.
 - d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
 - 2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
 - a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
 - b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
 - 3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
 - a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
 - b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
 - 4. Hinge Options: Comply with the following:
 - a. Non-removable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.

- 5. Manufacturers:
 - a. Hager Companies (HA).
 - b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK).
 - c. Stanley Hardware (ST).
- B. Pin and Barrel Continuous Hinges: ANSI/BHMA A156.26 Grade 1-600 certified pin and barrel continuous hinges with minimum 14 gauge Type 304 stainless steel hinge leaves, concealed teflon coated stainless pin, and twin self-lubricated nylon bearings at each knuckle separation. Factory trim hinges to suit door height and prepare for electrical cutouts.
 - 1. Manufacturers:
 - a. Hager Companies (HA).
 - b. Markar Products; ASSA ABLOY Architectural Door Accessories (MR).
 - c. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).

2.3 POWER TRANSFER DEVICES

- A. **Electrified Quick Connect Transfer Hinges**: Provide electrified transfer hinges with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.
 - Manufacturers:
 - a. Hager Companies (HA) ETW-QC (# wires) Option.
 - b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK)- QC (# wires) Option.
 - c. Stanley Hardware (ST) C Option.
- B. Concealed Quick Connect Electric Power Transfers: Provide concealed wiring pathway housing mortised into the door and frame for low voltage electrified door hardware. Furnish with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.
 - 1. Manufacturers:
 - a. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE) EL-CEPT Series.
 - b. Securitron (SU) EL-CEPT Series.
 - c. Von Duprin (VD) EPT-10 Series.

2.4 DOOR OPERATING TRIM

- A. Flush Bolts and Surface Bolts: ANSI/BHMA A156.3 and A156.16, Grade 1, certified.
 - 1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
 - 2. Furnish dust proof strikes for bottom bolts.
 - 3. Surface bolts to be minimum 8" in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
 - 4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
 - 5. Manufacturers:
 - a. Door Controls International (DC).
 - b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
 - c. Trimco (TC).

- B. **Coordinators**: ANSI/BHMA A156.3 certified door coordinators consisting of active-leaf, hold-open lever and inactive-leaf release trigger. Model as indicated in hardware sets.
 - Manufacturers:
 - a. Door Controls International (DC).
 - b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
 - c. Trimco (TC).

2.5 CYLINDERS AND KEYING

- A. **General**: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.
- B. **Source Limitations**: Obtain each type of keyed cylinder and keys from the same source manufacturer as locksets and exit devices, unless otherwise indicated.
 - Manufacturers:
 - a. Schlage (SC).
- C. Cylinders: Original manufacturer cylinders complying with the following:
 - 1. Mortise Type: Threaded cylinders with rings and cams to suit hardware application.
 - 2. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
 - 3. Bored-Lock Type: Cylinders with tailpieces to suit locks.
 - 4. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
 - 5. Keyway: Match Facility Standard.
- D. **Removable Cores**: Provide removable cores as specified, core insert, removable by use of a special key, and for use with only the core manufacturer's cylinder and door hardware.
- E. **Keying System**: Each type of lock and cylinders to be factory keyed.
 - 1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
 - 2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
 - 3. Existing System: Field verify and key cylinders to match Owner's existing system.
- F. **Key Quantity**: Provide the following minimum number of keys:
 - 1. Change Keys per Cylinder: Two (2)
 - 2. Master Keys (per Master Key Level/Group): Five (5).
 - 3. Construction Keys (where required): Ten (10).
 - 4. Construction Control Keys (where required): Two (2).
 - 5. Permanent Control Keys (where required): Two (2).
- G.Construction Keying: Provide temporary keyed construction cores.
- H. Key Registration List (Bitting List):
 - 1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
 - 2. Provide transcript list in writing or electronic file as directed by the Owner.

2.6 MECHANICAL LOCKS AND LATCHING DEVICES

- A. Mortise Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed. Locksets are to be manufactured with a corrosion resistant steel case and be field-reversible for handing without disassembly of the lock body.
 - 1. Manufacturers:
 - a. Sargent Manufacturing (SA) 8200 Series.
 - b. Schlage (SC) L9000 Series.

2.7 ELECTROMECHANICAL LOCKING DEVICES

- A. **Electromechanical Mortise Locksets, Grade 1 (Heavy Duty)**: Subject to same compliance standards and requirements as mechanical mortise locksets, electrified locksets to be of type and design as specified below.
 - 1. Electrified Lock Options: Where indicated in the Hardware Sets, provide electrified options including: outside door lock/unlock trim control, latchbolt and lock/unlock status monitoring, deadbolt monitoring, and request-to-exit signaling. Support end-of-line resistors contained within the lock case. Unless otherwise indicated, provide electrified locksets standard as fail secure.
 - 2. Manufacturers:
 - a. Sargent Manufacturing (SA) 8200 Series.
 - b. Schlage (SC) L9000 EL/EU/RX Series.

2.8 AUXILIARY LOCKS

- A. **Push-Pull Latches, Mortise**: ANSI/BHMA A156.13, Series 1000, Grade 1 mortise type push-pull locks and latches with paddle trim capable of being mounted as a standard product in vertical (up or down) and horizontal (sideways) positions. Locksets to be manufactured with a corrosion resistant, formed steel case and be non-handed and field reversible for re-handing without disassembly of the lock body. Paddles and covers are manufactured from cast stainless steel. brass or bronze material.
 - 1. Manufacturers:
 - a. Glynn Johnson (GJ) HL-6 9000 Series.
 - b. Sargent Manufacturing (SA) 7800 PT Series.

2.9 LOCK AND LATCH STRIKES

- A. **Strikes**: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
 - 1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
 - 2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
 - 3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
 - 4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.
- B. Standards: Comply with the following:
 - 1. Strikes for Mortise Locks and Latches: BHMA A156.13.
 - 2. Strikes for Bored Locks and Latches: BHMA A156.2.
 - 3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
 - 4. Dustproof Strikes: BHMA A156.16.

2.10 CONVENTIONAL EXIT DEVICES

- A. **General Requirements**: All exit devices specified herein shall meet or exceed the following criteria:
 - At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
 - Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
 - 3. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
 - 4. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
 - 5. Motorized Electric Latch Retraction: Devices with an electric latch retraction feature must use motors which have a maximum current draw of 600mA. Solenoid driven latch retraction is not acceptable.
 - 6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
 - a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
 - b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.
 - 7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
 - 8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
 - 9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
 - 10. Rail Sizing: Provide exit device rails factory sized for proper door width application.
 - 11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.
- B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Exit device latch to be stainless steel, pullman type, with deadlock feature.
 - Manufacturers:
 - a. Sargent Manufacturing (SA) 80 Series.
 - b. Von Duprin (VD) 35A/98 XP Series.

2.11 DOOR CLOSERS

- A. All door closers specified herein shall meet or exceed the following criteria:
 - 1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
 - Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.

- 3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
- 4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
- 5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
- 6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.
- B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.
 - 1. Manufacturers:
 - a. LCN Closers (LC) 4040SE Series.
 - b. Norton Door Controls (NO) 7500 Series.

2.12 SURFACE MOUNTED CLOSER HOLDERS

- A. **Multi-Point Closer Holders with Motion Sensor**: ANSI A156.15, Grade 1 certified multi-point, closer holder devices designed to keep doors in a held-open position if presence is detected within the opening. Push side or pull side mounting applications having a maximum opening of 180° (hold open to 175°) and dual voltage input (24V /120V). Voltage to be 24VDC unless otherwise specified. Units are fail safe, closing the door in the event of fire alarm system or electrical power interruption.
 - 1. Safe Zone Detection: Closer holders units to have an integral motion sensor device monitoring a "zone of safety" at the door opening. Safe zone detection prevents the door from closing in event of movement within the adjustable sensing field. Movement is detectable in both directions with selectable closer hold open time and senor sensitivity. Provide optional handheld device for programming safe zone sensor settings.
 - 2. Manufacturers:
 - Norton Door Controls (NO) 7100SZ Series.

2.13 ARCHITECTURAL TRIM

A. Door Protective Trim

- 1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
- Size: Fabricate protection plates (kick, armor, or mop) not more than 2 inchesless than door width (LDW) on stop side of single doors and 1 inch LDW on stop side of pairs of doors, and not more than 1 inch less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.

- 3. Where plates are applied to fire rated doors with the top of the plate more than 16 inches above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications.
- 4. Protection Plates: ANSI/BHMA A156.6 certified protection plates (kick, armor, or mop), fabricated from the following:
 - a. Stainless Steel: 300 grade, 050-inch thick.
- 5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
- 6. Manufacturers:
 - a. Hiawatha, Inc. (HI).
 - b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
 - c. Trimco (TC).

2.14 DOOR STOPS AND HOLDERS

- A. **General**: Door stops and holders to be of type and design as specified below or in the Hardware Sets.
- B. **Door Stops and Bumpers**: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.
 - 1. Manufacturers:
 - a. Hiawatha, Inc. (HI).
 - b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
 - c. Trimco (TC).
- C. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.
 - 1. Manufacturers:
 - a. Rixson Door Controls (RF).
 - b. Sargent Manufacturing (SA).

2.15 ARCHITECTURAL SEALS

- A. **General**: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
- B. **Smoke Labeled Gasketing**: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
 - 1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
 - Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. **Sound-Rated Gasketing**: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.
- E. **Replaceable Seal Strips**: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

F. Manufacturers:

- 1. National Guard Products (NG).
- 2. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).
- 3. Reese Enterprises, Inc. (RE).

2.16 ELECTRONIC ACCESSORIES

- A. **Touchless Switches**: FCC certified microwave sensing switch used for REX or activation of various access control devices in place of a traditional wired switch. Unit to have an adjustable sensing zone from 4" to 24". At exterior locations furnish foam gaskets and weather covers. Provide single gang or double gang unit as specified in the hardware sets
 - Manufacturers:
 - a. Norton Door Controls (NO) 700 Series.
 - b. Securitron (SU) WSS Series.
- B. **Switching Power Supplies**: Provide power supplies with either single or dual voltage configurations at 12 or 24VDC. Power supplies shall have battery backup function with an integrated battery charging circuit and shall provide capability for power distribution, direct lock control and Fire Alarm Interface (FAI) through add on modules. Power supplies shall be expandable up to 16 individually protected outputs. Output modules shall provide individually protected, continuous outputs and/or individually protected, relay controlled outputs.
 - 1. Manufacturers:
 - a. Securitron (SU) AQD Series.

2.17 FABRICATION

A. **Fasteners**: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.18 FINISHES

A. **Standard**: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 **EXAMINATION**

- A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Notify Architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 **PREPARATION**

- A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 **INSTALLATION**

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
 - Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
- B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
 - Standard Steel Doors and Frames: DHI's "Recommended Locations for 1. Architectural Hardware for Standard Steel Doors and Frames."
 - Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural 2. Hardware for Wood Flush Doors."
 - Where indicated to comply with accessibility requirements, comply with ANSI 3. A117.1 "Accessibility Guidelines for Buildings and Facilities."
 - 4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
- C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

- D. **Thresholds**: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."
- E. **Storage**: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

- A. **Field Inspection (Punch Report)**: Reference Division 01 Sections "Closeout Procedures" and "Cash Allowances". Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.
 - Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.
 - 2. Submit documentation of incomplete items in the following formats:
 - a. PDF electronic file.
 - b. Electronic formatted file integrated with the Openings Studio™ door opening management software platform.

3.5 ADJUSTING

A. **Initial Adjustment**: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION

- A. **Protect all hardware** stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- B. Clean adjacent surfaces soiled by door hardware installation.
- C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

A. **Instruct Owner's maintenance personnel** to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

A. **The hardware sets represent** the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule.

Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

- 1. Quantities listed are for each pair of doors, or for each single door.
- 2. The supplier is responsible for handing and sizing all products.
- 3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
- 4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

B. Manufacturer's Abbreviations:

- 1. MK McKinney
- 2. MR Markar
- 3. RO Rockwood
- 4. SC Schlage
- 5. VD Von Duprin
- 6. SD Security Door Controls
- 7. RF Rixson
- 8. LC LCN Closers
- 9. NO Norton
- 10. PE Pemko
- 11. SU Securitron

Hardware Sets

Set: 1.0 Doors: 2510

2	Continuous Hinge SVR Exit Device (EO-MELR) Door Operator (Dbl Egress)	HG315 CTP QEL 9827EO-F LBR Stanley Magic by others	630 US26D 689	MR VD	
	Kick Plate	K1050 10"	US32D	RO	
2	Wall Stop	409	US32D	RO	
1	Gasketing	S44BL		PΕ	
1	Meeting Stile Seal	S771C		PΕ	
2	Electric Power Transfer	CEPT-10		SU	4
2	Wave to Open Switch	WSS-WX		SU	4
1	Power Supply	AQD (size as req.) x PDB (as req.)		SU	4

Set: 2.0 Doors: 2500

1	Continuous Hinge	FM300	630	MR
1	Rim Exit Device	98L-BE-F 17 996L-BE	US26D	VD
1	Surface Closer	4011/4111 (type as required)	689	LC
1	Kick Plate	K1050 10"	US32D	RO
1	Wall Stop	409	US32D	RO
1	Gasketing	S44BL		PΕ

<u>Set: 3.0</u> Doors: 2513

2 Hinge, Full Mortise TA2714 (NRP) US26D MK 1 Electric Hinge TA2714-CCX US26D MK 1 Electrified Mortise Lock L9092EU 17B 626 SC 1 Cylinder (mortise) 30-138 626 SC 1 Surface Closer 4011/4111 (type as required) 689 LC 1 Kick Plate K1050 10" US32D RO 1 Wall Stop 409 US32D RO 1 Gasketing S44BL PΕ

1 Power Supply AQD (size as req.) x PDB (as req.) SU 4

1 Card Reader Provided by access control.

Notes:

Entry by valid credential unlocking the lever on the key side of the door; mechanical key override. Free egress at all times.

Set: 4.0

Doors: 2524, 2525

2	Hinge, Full Mortise	TA2714 (NRP)	US26D	MK	
1	Electric Hinge	TA2714-CCX	US26D	MK	4
1	Electrified Mortise Lock	L9092EU 17B	626	SC	4
1	Cylinder (mortise)	30-138	626	SC	
1	Surface Closer	4011/4111 (type as required)	689	LC	
1	Armor Plate	K1050 F 34"	US32D	RO	
1	Wall Stop	409	US32D	RO	
1	Gasketing	S44BL		PΕ	
1	Power Supply	AQD (size as req.) x PDB (as req.)		SU	4
1	Card Reader	Provided by access control.			

Notes:

Entry by valid credential unlocking the lever on the key side of the door; mechanical key override. Free egress at all times.

Set: 5.0 Doors: 2400

1	Continuous Hinge Mortise Lock (passage) Electric Strike	HG315 L9010 17B 55-ABC	630 626 630	MR SC SD	
1	Door Operator (Single) Armor Plate	Stanley Magic by others K1050 F 34"	689 US32D	RO	
1	Wall Stop Gasketing	409 S44BL	US32D	RO PE	
2	Wave to Open Switch Power Supply	WSS-WX AQD (size as req.) x PDB (as req.)		SU SU	4 4

Set: 6.0

Doors: 2501A, 2502A				
 1 Continuous Hinge 1 Continuous Hinge 1 Automatic Flush Bolt 1 Push/Pull Latch 1 Electric Strike 1 Door Operator (Pair) 2 Armor Plate 2 Wall Stop 1 Gasketing 1 Meeting Stile Seal 1 Electric Power Transfer 2 Wave to Open Switch 1 Power Supply 	HG315 HG315 CTP 2948 HL6-9010 45-A Stanley Magic by others K1050 F 34" 409 S44BL S771C CEPT-10 WSS-WX AQD (size as req.) x PDB (as req.)	630 630 US26D 626 630 689 US32D US32D	SU 4	シンシン
<u>Set: 7.0</u> Doors: 2531				
 2 Continuous Hinge 1 Flush Bolt 1 Mortise Lock (storeroom) 1 Cylinder (mortise) 1 Surface Overhead Stop 1 SafeZone Door Closer 2 Armor Plate 1 Wall Stop 2 Silencer 	HG315 555 L9080 L 17B 30-138 10-X36 71X0SZ K1050 34" 409 608-RKW	630 US26D 626 626 630 689 US32D US32D	MR RO SC SC RF NO 4 RO RO	1

Set: 8.0

Doors: 2406, 2506

6	Hinge, Full Mortise	TA2714 (NRP)	US26D	MK
1.	Automatic Flush Bolt	2948	US26D	RO
1	Mortise Lock (storeroom)	L9080 L 17B	626	SC
1	Cylinder (mortise)	30-138	626	SC
1	Coordinator	2600 (brackets as required)	US28	RO
2	Surface Closer	4011/4111 (type as required)	689	LC
2	Kick Plate	K1050 10"	US32D	RO
2	Wall Stop	409	US32D	RO
1	Gasketing	S44BL		PE
1	Sound Gasketing	S773BL		PΕ

<u>Set: 9.0</u> Doors: 2505

6	Hinge, Full Mortise	TA2714 (NRP)	US26D	MK
1	Automatic Flush Bolt	2948	US26D	RO
1	Mortise Lock (storeroom)	L9080 L 17B	626	SC
1	Cylinder (mortise)	30-138	626	SC
1	Coordinator	2600 (brackets as required)	US28	RO
2	Surface Closer	4011/4111 (type as required)	689	LC
2	Armor Plate	K1050 F 34"	US32D	RO
2	Wall Stop	409	US32D	RO
1	Gasketing	S44BL		PΕ
1	Meeting Stile Seal	S771C		PΕ

<u>Set: 10.0</u> Doors: 2404C			
3 Hinge, Full Mortise1 Mortise Lock (storeroom)1 Cylinder (mortise)1 Surface Overhead Stop3 Silencer	TA2714 (NRP) L9080 L 17B 30-138 10-X36 608-RKW	US26D 626 626 630	MK SC SC RF RO
<u>Set: 11.0</u> Doors: 2404A			
 Continuous Hinge Mortise Lock (passage) Electric Strike Door Operator (Single) Armor Plate Wall Stop Gasketing Wave to Open Switch Power Supply 	HG315 L9010 17B 55-ABC Stanley Magic by others K1050 F 34" 409 S44BL WSS-WX AQD (size as req.) x PDB (as req.)	630 626 630 689 US32D US32D	MR SC SD RO RO PE SU 4 SU 4
<u>Set: 12.0</u> Doors: 2526, 2530			
 3 Hinge, Full Mortise 1 Mortise Lock (storeroom) 1 Cylinder (mortise) 1 Surface Closer 1 Wall Stop 1 Gasketing 	TA2714 (NRP) L9080 L 17B 30-138 4011/4111 (type as required) 409 S44BL	US26D 626 626 689 US32D	MK SC SC LC RO PE
<u>Set: 13.0</u> Doors: 2527A, 2527B			
3 Hinge, Full Mortise1 Mortise Lock (storeroom)1 Cylinder (mortise)1 Surface Closer1 Gasketing	TA2714 (NRP) L9080 L 17B 30-138 4011/4111 (type as required) S44BL	US26D 626 626 689	MK SC SC LC PE
<u>Set: 14.0</u> Doors: 2511			

TA2714 (NRP)

L9080 L 17B

4111 CUSH

30-138

S44BL

3 Hinge, Full Mortise

1 Cylinder (mortise)

1 Surface Closer

1 Gasketing

1 Mortise Lock (storeroom)

MK

SC

SC

LC

PΕ

US26D

626

626

689

Set: 15.0

Doors: 2507, 2518, 2522

3 Hinge, Full M	ortise	TA2714	US26D	MK
1 Mortise Lock	(privacy)	L9040 17B L283-712	626	SC
1 Surface Close	er	4011/4111 (type as required)	689	LC
1 Kick Plate		K1050 10"	US32D	RO
1 Wall Stop		409	US32D	RO
1 Gasketing		S44BL		PΕ

Set: 16.0 Doors: 2514

3 Hinge, Full Mortise	TA2714	US26D	MK
1 Mortise Lock (passage)	L9010 17B	626	SC
1 Surface Closer	4011/4111 (type as required)	689	LC
1 Kick Plate	K1050 10"	US32D	RO
1 Wall Stop	409	US32D	RO
1 Gasketing	S44BL		PΕ

<u>Set: 17.0</u> Doors: 2501B, 2502B

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Push/Pull Latch	HL6-9010	626	SC
1	Surface Closer	4011/4111 (type as required)	689	LC
1	Kick Plate	K1050 10"	US32D	RO
1	Wall Stop	409	US32D	RO
1	Gasketing	S44BL		PΕ

Set: 18.0

Doors: 2508, 2509, 2516, 2517, 2519, 2520, 2521

By door manufacturer 1 Hardware

END OF SECTION

SECTION 09 5100

ACOUSTICAL CEILINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

1.2 SUMMARY

A. **Section includes** acoustical ceiling tile, suspension system and accessories.

1.3 SUBMITTALS

- A. **Product Data**: Manufacturer's product specifications and installation instructions for each acoustical ceiling material required, and for each suspension system, including certified laboratory test reports and other data as required to show compliance with these specifications.
 - 1. Include manufacturer's recommendations for cleaning and refinishing acoustical units, including precautions against materials and methods which may be detrimental to finishes and acoustical performances.
- B. **Samples**: Set of 6 inch x 4 inch square samples for each acoustical unit required, showing full range of exposed color and texture to be expected in completed work.
 - 1. Set of 12 inch long samples of each exposed runner and molding.

1.4 QUALITY ASSURANCE

A. Source Limitations:

- Acoustical Ceiling Panel: Obtain each type through one source from a single manufacturer.
- 2. Suspension System: Obtain each type through one source from a single manufacturer.
- B. **Fire Performance Characteristics**: Provide acoustical ceiling components that are identical to those tested for the following fire performance characteristics, according to ASTM test method indicated, by UL or other testing and inspecting agency acceptable to authorities having jurisdiction. Identify acoustical ceiling components with appropriate marking of applicable testing and inspecting agency.
 - 1. Surface Burning Characteristics: As follows, tested per ASTM E 84.
 - a. Flame Spread: 25 or less.
 - b. Smoke Developed: 50 or less.
 - 2. Fire Resistance Ratings: As indicated by reference to design designation in UL "Fire Resistance Directory" or "FM Approval Guide", for floor, roof or beam assemblies in which acoustical ceilings function as a fire protective membrane; tested per ASTM E 119. Provide protection materials for lighting fixtures and air ducts to comply with requirements indicated for rated assembly.
- C. **Seismic Standard**: Provide acoustical panel ceilings designed and installed to withstand the effects of earthquake motions according to the following:
 - CISCA's Guidelines for Systems Requiring Seismic Restraint: Comply with CISCA's "Guidelines for Seismic Restraint of Direct-Hung Suspended Ceiling Assemblies--Seismic Zones 3 & 4."

D. **Coordination of Work**: Coordinate layout and installation of acoustical ceiling units and suspension system components with other work supported by or penetrating through, ceilings, including light fixtures, HVAC equipment, fire-suppression system components (if any), and partition system (if any).

1.5 DELIVERY, STORAGE, AND HANDLING

- A. **Deliver acoustical ceiling units** to Project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination or other causes.
- B. **Before installing acoustical ceiling units**, permit them to reach room temperature and a stabilized moisture content.
- C. **Handle acoustical ceiling units carefully** to avoid chipping edges or damaging units in any way.

1.6 PROJECT CONDITIONS

A. **Space Enclosure**: Do not install interior acoustical ceilings until space is enclosed and weatherproof, wet-work in space is completed and nominally dry, work above ceilings completed, and ambient conditions of temperature and humidity will be continuously maintained at values near those indicated for final occupancy

1.7 COORDINATION

A. **Coordinate layout and installation** of acoustical panels and suspension system with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, fire suppression system, and partition assemblies

1.8 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Acoustical Ceiling Panels: Full-size equal to 2.0 percent of quantity installed.
 - 2. Suspension System Components: Quantity of each exposed component equal to 2.0 percent of quantity installed.
 - 3. Hold-Down Clips: Equal to 2.0 percent of amount installed.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. **Available Manufacturers**: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Suspension System: Armstrong; Prelude XL 15/16 inch Exposed Tee.
 - 2. Acoustical Tile: Armstrong; Ultima 1910 and Ultima Health Zone 1935
 - 3. Wood Plank: Armstrong Woodworks Linear Veneered Planks 6660W1
 - Acoustical Sealant:
 - a. Tremco Acoustical Sealant; Tremco.
 - b. USG Acoustical Sealant; United States Gypsum Co.
 - c. Chem-Calk 600; Woodmont Products, Inc.
 - d. Pecora Corp; AC 20 FTR Acoustical and Insulation Sealant

2.2 **MATERIALS**

A. **Acoustical Ceiling Units:**

- General: Provide manufacturer's standard units of configuration indicated which are prepared for mounting method designated and which comply with FS SS-S-118 requirements, including those indicated by reference to type, form, pattern, grade (NRC or NIC's as applicable), light reflectance coefficient (LR), edge detail, and joint detail (if any).
- 2. Mounting Method for Measuring NRC: No. 7 (mechanically mounted on special metal support), FS SS-S-118; or Type E-400 mounting as per ASTM E 795.
- 3. Sound Attenuation Performance: Provide acoustical ceiling units with ratings for ceiling sound transmission class (STC) of range indicated as determined according to AMA 1-II "Ceiling Sound Transmission Test by Two-Room Method" with ceilings continuous at partitions and supported by a metal suspension system of type appropriate for ceiling unit of configuration indicated (concealed for tile, exposed for panels).

B. Ceiling Types:

- Type C1 A: Armstrong: Ultima (1910)
 - Size: 24 inches x 24 inches x 3/4 inch
 - Edge: Square lay-In CAC: 35 b.
 - C.
 - d. LR: 0.88
 - NRC: 0.75 e.
 - f. ASTM E1264 Classification: Type IV, Form 2, Pattern E
 - Surface Finish: Scrim with factory-applied latex paint
- 2. Armstrong: Woodworks Linear Veneer Planks (6660W1CWA) Type-C2 B:
 - Size: 95 inches x 5-1/4 inches x 3/4 inch with 3/4 inch reveal. a.
 - Finish: Constant Walnut, clear semi-gloss coating. b.
 - ASTM E1264 Classification: Composite, Class A. C.
 - Provide with 5371 HD Linear Carriers and other trims for a complete d. installation.
- 3. Type C3-C: Suspended gypsum system; refer to Division 9 Section "Gypsum" Board".
- Type C4 D: Painted, exposed structure. 4.
- Type-C5 E: Armstrong: Ultima Health Zone (1935) 5.
 - Size: 24 inches x 24 inches x 3/4 inch a.
 - b. Edge: Square lay-In
 - C. CAC: 35
 - LR: 0.86 d.
 - NRC: 0.70 e.
 - ASTM E1264 Classification: Type IV, Form 2, Pattern E f.
 - Surface Finish: Factory-applied vinyl latex paint g.
- C. Metal Suspension System: Provide metal suspension systems of type, structural classification and finish indicated which comply with applicable ASTM C 635 requirements.
 - 1. Finishes and Colors: Provide manufacturer's standard finish for type of system indicated, unless otherwise required. For exposed suspension members and accessories with painted finish, provide color indicated or, if not otherwise indicated, as selected by Architect from manufacturer's full range of standard colors.
 - 2. Attachment Devices: Size for 5 times design load indicated in ASTM C 635, Table 1, Direct Hung.
 - Hanger Wire: Galvanized carbon steel wire, ASTM A 641, soft temper, 3. pre-stretched, Class 1 coating, sized so that stress at 3- times hanger design loan (ASTM C 635, Table 1, Direct Hung), will be less than yield stress of wire, but provide not less than 12 gage.

- 4. Sheet-Metal Edge Moldings and Trim: Type and profile indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations that fit acoustical panel edge details and suspension systems indicated; formed from sheet metal of same material and finish as that used for exposed flanges of suspension system runners.
 - a. For circular penetrations of ceiling, provide edge moldings fabricated to diameter required to fit penetration exactly.
- 5. Hold-Down Clips: Minimum 24 gauge spring steel, 1-7/16 inches deep x 7/8 inches wide, designed to fit over cross tees. Provide clips spaced symmetrically 2 ft. o.c.
- 6. Seismic Struts: Manufacturer's standard compression struts designed to accommodate seismic forces; locate at 12 feet on center both ways for suspended ceilings according to UBC Standard 25-2 other standard required by authority having jurisdiction.
 - a. In lieu of compression struts provide a seismic clip with an ES Report number from ICC demonstrating that the compression struts and the 2 inch perimeter wall mold are not required.
 - 1. BERC seismic clips; Armstrong.
 - 2. 1496 Perimeter Clip; Chicago Metallic Corp.
 - ACM-7 clip; USG.
- 7. Wide-Face, Capped, Double-Web, Steel Suspension System: Main and cross runners roll formed from cold-rolled steel sheet, pre-painted, electrolytically zinc coated, or hot-dip galvanized according to ASTM A 653/A 653M, not less than G30 coating designation, with pre-finished 15/16-inch- wide metal caps on flanges.
 - a. Structural Classification: Heavy-duty system.
 - b. End Condition of Cross Runners: Butt-edge type.
 - c. Face Design: Flat, flush.
 - d. Cap Material: Steel or aluminum cold-rolled sheet.
 - e. Cap Finish: Painted in color as selected from manufacturer's full range.

D. Miscellaneous Materials:

 Acoustical Sealant: Resilient, non-staining, non-shrinking, non-hardening, non-skinning, non-drying, non-sag sealant intended for interior sealing of concealed construction joints.

PART 3 - EXECUTION

3.1 PREPARATION

- A. **Coordination**: Furnish layouts for inserts, clips, or other supports required to be installed by other trades for support of acoustical ceilings.
 - Furnish concrete inserts, steel deck hanger clips and similar devices to other trades for installation well in advance of time needed for coordination of other work.
- B. **Layout**: Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Avoid use of less-than-half width units at borders, and comply with reflected ceiling plans wherever possible.

3.2 INSTALLATION

- A. **General**: Install materials in accordance with manufacturer's printed instructions, and to comply with governing regulations, fire resistance rating requirements as indicated, and industry standards applicable to work.
- B. **Arrange acoustical units** and orient directionally-patterned units (if any) in manner shown by reflected ceiling plans.
 - 1. Install tile with pattern running in one direction.
- C. **Install suspension systems** to comply with ASTM C 636, with hangers supported only from building structural members. Locate hangers not less than 6 inches from each end and spaced 4 feet along each carrying channel or direct-hung runner, unless otherwise indicated, leveling to tolerance of 1/8 inch in 12 feet. Comply with detail on drawings for seismic bracing.
- D. **Secure wire hangers** by looping and wire-tying, either directly to structures or to inserts, eye-screws, or other devices which are secure and appropriate for substrate, and which will not deteriorate or fail with age or elevated temperatures.
 - Install hangers plumb and free from contact with insulation or other objects within ceiling plenum which are not part of supporting structural or ceiling suspension system. Splay hangers only where required to miss obstructions and offset resulting horizontal force by bracing, countersplaying or other equally effective means.
- E. **Install edge moldings** of type indicated at perimeter of acoustical ceiling area and at locations where necessary to conceal edges of acoustical units.
 - 1. Screw-attach moldings to substrate at intervals not over 16 inches on center and not more than 3 inches from ends, leveling with ceiling suspension system to tolerance of 1/8 inch in 12 feet. Miter corners accurately and connect securely.
- F. **Install** acoustical panels in coordination with suspension system, with edges concealed by support of suspension members. Scribe and cut panels to fit accurately at borders and at penetrations.
 - 1. Paint cut and exposed edges of acoustical tile.
 - 2. Install hold-down clips in areas indicated, and in areas where required by governing regulations or for fire-resistance ratings; space as recommended by panel manufacturer, unless otherwise indicated or required.

3.3 ADJUST AND CLEAN

A. **Clean exposed surfaces** of acoustical ceilings, including trim, edge moldings, and suspension members; comply with manufacturer's instructions for cleaning and touch-up of minor finish damage. Remove and replace work which cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION