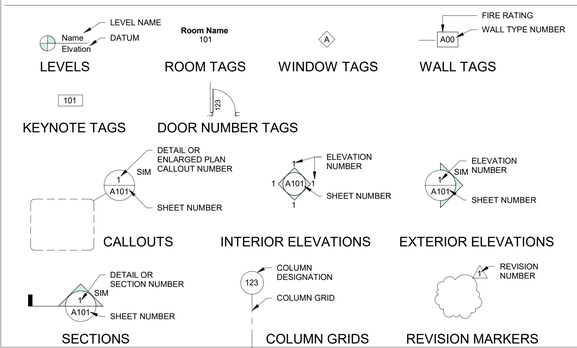
APPROVED
RSN:1707621 | PERMIT# 23-2315197-LT

PROJECT INFORMATION SHEET

Drawn By: Author
Checked By: Checker
Approved By: Approver

ACC	ACCESSIBLE	INV	INVERT
ADA	ACCESSIBLE ITEM OR SPACE	IP	ISOLATION PANEL
ADDL	ADDITIONAL	IMP	IMPACT WALL PANEL / IMPACT WALL PROTECTION
ADJ	ADJUSTABLE		
A/E	ARCHITECT/ENGINEER	JT	JOINT
AED	AUTOMATIC EXTERNAL DEFIBRILLATOR	KP	KEY PAD
AFF	ABOVE FINISHED FLOOR	LAV	LAVATORY
AFS	AT FINISHED SLAB	LKR	LOCKER
AHJ	AUTHORITY HAVING JURISDICTION	LVT	LUXURY VINYL TILE
AHU	AIR HANDLING UNIT	LMP	LAMINATE WALL PANEL
ALUM	ALUMINUM	LWR/LWE	LOW WALL RETURN/EXHAUST
AMB	AMBULATORY	MACH	MACHINE
AP	ACCESS PANEL	MAINT	MAINTENANCE
APPROX	APPROXIMATE	MATL	MATERIAL
AUD	AUDIO	MAX	MAXIMUM
AUTO	AUTOMATIC	MB	MARKER BOARD
AUTO W/ HO	AUTOMATIC DOOR OPERATOR WITH INTEGRAL HOLD-OPEN	MECH	MECHANICAL
		MEX	MATCH EXISTING
AUX	AUXILIARY	MH	MANHOLE
AV	AUDIO VISUAL	MICRO	MICROWAVE OVEN
BRKT	BRACKET	MIN	MINIMUM
BOT	BOTTOM	MISC	MISCELLANEOUS
BUR	BUILT-UP ROOF	MO	MASONRY OPENING
BW	BOTTOM OF THE WALL	MP	MOBILE PEDESTAL
C	COMPUTER	MTD	MOUNTED
CAB	CABINET	MTL	METAL
CATV	COMMUNITY ANTENNA TELEVISION	NIC	NOT IN CONTRACT
CB	CATCH BASIN	NOM	NOMINAL
CCTV	CLOSED CIRCUIT TELEVISION	OC	ON CENTER
CFCI	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED	OD	OUTSIDE DIAMETER
		OFCI	OWNER FURNISHED / CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED / OWNER INSTALLED	OFE	OWNER FURNISHED EQUIPMENT
CFM	CUBIC FEET PER MINUTE	OFOI	OWNER FURNISHED / OWNER INSTALLED
CG	CORNER GUARD		
CIP	CAST IN PLACE	OH	OPPOSITE HAND
CJ	CONTROL JOINT	OHC	OVERHEAD COILING
CL	CENTERLINE	OPER	OPERATIONS
CLG	CEILING	OPNG	OPENING
CLR	CLEAR	OPP	OPPOSITE
CMU	CONCRETE MASONRY UNIT	P	PAINT / PRINTER
CNTR	COUNTER	PB	PANIC BUTTON
COF	COFFEE MACHINE	PL/PLAM	PLASTIC LAMINATE
COL	COLUMN	PLAS	PLASTER
CONC	CONCRETE	PLYWD	PLYWOOD
CONSTR	CONSTRUCTION	POS	POINT OF SALE / POSITIVE
CONT	CONTINUOUS / CONTINUE	PP	PUSH PLATE FOR AUTOMATIC DOOR
CR	CARD READER / CRASH RAIL	PPE	PERSONAL PROTECTIVE EQUIPMENT
CSK	COUNTERSUNK	PROJ	PROJECTOR / PROJECT
CSWK	CASEWORK	PT	PRESSURE TREATED
CTR	CENTER	PTD	PAPER TOWEL DISPENSER
CTRL	CONTROL	QT	QUARRY TILE
CTV	CABLE TELEVISION	RB	RESILIENT BASE
D	DRYER	RCP	REFLECTED CEILING PLAN
DBL	DOUBLE	REF	REFRIGERATOR
DEG	DEGREE	REF	REFER / REFERENCE
DET	DETAIL	REINF	REINFORCING / REINFORCED
DF	DRINKING FOUNTAIN	REQD	REQUIRED
DIA	DIAMETER	RF	RUBBER FLOORING
DIAG	DIAGONAL	RO	ROUGH OPENING
DIM	DIMENSION	ROD	ROOF OVERFLOW DRAIN
DIR	DIRECTION	RR	REMOTE RELEASE BUTTON
DISP	DISPENSER	RS	ROLLER SHADE
DIST	DISTANCE	SAN	SANITARY
DP	DISCONNECT PANEL	SB	SPLASH BLOCK
DS	DOWNSPOUT	SC	SEALED CONCRETE
DTL	DETAIL	SD	SOAP DISH / SOAP DISPENSER
DW	DISHWASHER	SEC	SECTION
DWG	DRAWING	SGNL	SIGNAL
EA	EACH	SHLVG	SHELVING
EEW	EMERGENCY EYE WASH	SIM	SIMILAR
EFG	ENTRANCE FLOOR GRILLE	SP	STANDPIPE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	SPEC	SPECIFICATION / SPECIFICATIONS
		S STL	STAINLESS STEEL
EJ	EXPANSION JOINT	SS	SANITARY SEWER / SOLID SURFACE
EJC	EXPANSION JOINT CEILING	STD	STANDARD
EJF	EXPANSION JOINT FLOOR	STL	STEEL
EJW	EXPANSION JOINT WALL	STRUCT	STRUCTURAL
EL	ELEVATION	SV	SHEET VINYL
ELEC	ELECTRICAL	SVT	SOLID VINYL TILE
ELEV	ELEVATOR	SYS	SYSTEM
EMHO	ELECTROMAGNETIC HOLD OPEN	T/TOIL/TLT	TOILET
ENCL	ENCLOSURE	TB	TOWEL BAR / TACK BOARD
EP	ELECTRICAL PANEL	TBL	TABLE
EQ	EQUAL	TEL	TELEPHONE
EQUIP	EQUIPMENT	TEMP GL	TEMPERED GLASS
ES	EMERGENCY SHOWER	TFS	TO FACE OF STUD
ETR	EXISTING TO REMAIN	THK	THICK / THICKNESS
EWC	ELECTRIC WATER COOLER	TOS	TOP OF STEEL
EXIST	EXISTING	TOW	TOP OF WALL
EXP	EXPOSED	TPD	TOILET PAPER DISPENSER
EXT	EXTERIOR	TPH	TOILET PAPER HOLDER
FA	FIRE ALARM	TSTAT	THERMOSTAT
FAAP	FIRE ALARM ANNUNCIATE PANEL	TV	TELEVISION
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FB	FLOOR BUMPER	TZ	TERRAZZO
FD	FLOOR DRAIN	UON	UNLESS OTHERWISE NOTED
FDS	FOLD DOWN SEAT	VIF	VERIFY IN FIELD
FDV	FIRE DEPARTMENT VALVE	W	WASHER
FDVC	FIRE DEPARTMENT VALVE CABINET	W/	WITH
FDV W/ FE	FIRE DEPARTMENT VALVE CABINET WITH FIRE EXTINGUISHER	WAP	WIRELESS ACCESS POINT
		WC	WATER CLOSET / WHEELCHAIR / WALL COVERING
FE	FIRE EXTINGUISHER		
FEC	FIRE EXTINGUISHER CABINET	WCO	WALL CLEAN OUT
FFE	FINISH FLOOR ELEVATION	WD	WOOD
FH	FIRE HYDRANT	WM	WALL MOUNTED
FIN	FINISH	WO	WITHOUT
FL	FLOOR	WP	WAVE PAD FOR AUTOMATIC DOOR / WATERPROOFING / WOOD PANEL
FOB	FACE OF BRICK		
FOF	FACE OF FINISH	WR	WEATHER RESISTANT
FOM	FACE OF MASONRY	WRB	WEATHER RESISTANT BARRIER
FRT	FIRE RESISTANT TREATED	XFMR	TRANSFORMER
FRZ	FREEZER		
FS	FLOOR SINK		
FTG	FOOTING		HEALTHCARE SPECIFIC ABBREVIATIONS
FV	FIELD VERIFY		
G	GROMMET	CCT	CUBICLE CURTAIN TRACK
GA	GAUGE	HDWL	HEADWALL
GAL	GALLON	IV	INTRAVENOUS TRACK
GALV	GALVANIZED	LL	LEAD LINED
GB	GRAB BAR	MGAP	MEDICAL GAS ALARM PANEL
GEJ	GUTTER EXPANSION JOINT	MGO	MEDICAL GAS OUTLET
GEN	GENERAL	MGZV	MEDICAL GAS ZONE VALVE
GL	GLASS / GLAZING	PM	PHYSIOLOGICAL MONITOR
GYP BD	GYPSUM BOARD	PTS	PNEUMATIC TUBE STATION
GYP	GYPSUM	PTS (L)	PNEUMATIC TUBE STATION (LOCKED DOOR)
H	HIGH		
HB	HOSE BIBB		
HD	HEAD		
HDW	HARDWARE		
HM	HOLLOW METAL		
HO	HOLD OPEN		
IB	INTEGRAL BASE		
ICE	ICE MACHINE / ICE MAKER		
ID	INSIDE DIAMETER		
INFO	INFORMATION		
INSUL	INSULATION		
INT	INTERIOR		

GRAPHIC SYMBOLS LEGEND



PROJECT CODE DATA

Applicable Codes:

Where different versions of building codes conflict, the more restrictive code shall be followed.

STATE OF COLORADO

2021	International Building Code (IBC) As adopted by the Colorado State Buildings Program as follows: Chapter 1 as amended, Chapters 2-35 and Appendices C and I.
2021	International Existing Building Code (IEBC) As adopted by the Colorado State Buildings Program as follows: Chapters 2-16, Appendices 1-C and Resource A.
2015	International Mechanical Code (IMC) As adopted by the Colorado State Buildings Program as follows: Chapters 2-15, Appendice A.
2015	International Energy Conservation Code (IECC) As adopted by the Colorado State Buildings Program.
2020	National Electrical Code (NEC) (NFPA 70) As adopted by the Colorado State Electrical Board.
2015	International Plumbing Code (IPC) As adopted by the Colorado Examining Board of Plumbers.
2018	International Fuel Gas Code (IFGC) As adopted by the Colorado Examining Board of Plumbers.
2018	National Fire Protection Association Standards (NFPA)
2015	International Fire Code (IFC)
2017	ICC A117.1 Accessible and Usable Buildings and Facilities As referenced in the adopted edition of the International Building Code.
2010	ADA Standards for Accessible Design
2018	Facility Guidelines Institute (FGI) Guidelines for Design and Construction of Hospitals
2021	NFPA 170 Standards for Fire Safety and Emergency Symbols
2021	NFPA 3 Standard for Commissioning of Fire Protection and Life Safety Systems
2021	NFPA 4 Standard for Integrated Fire Protection and Life Safety System Testing
2012	NFPA 99 Health Care Facilities Code
2012	NFPA 101 Life Safety Code

CITY OF AURORA

2021	International Building Code (IBC) and Amendments
2021	International Energy Conservation Code (IECC) and Amendments
2021	International Mechanical Code (IMC) and Amendments
2021	International Plumbing Code (IEBC) and Amendments
2021	Fire Code and Amendments
2021	International Fuel and Gas Code
2020	National Electrical Code

Special Classifications:

Climate Zone per Applicable Building Code	Climate Zone of Arapahoe County **5B**
Seismic Hazard Zone per USGS	**Risk Category IV, Seismic Importance Factor I-1.5, Category C**
Wind Load	**120 MPH - Exposure C, Risk Category IV**
Snow Load	**Roof Snow Load - 30 psf**

Occupancy Group

COBC - Occupancy Group	**I-2**
NFPA Life Safety Code 101 - Occupancy Group	**Project Scope: Healthcare Occupancy**

Construction Type / Height & Area

Construction Type (Table 601) — Type **1A**

Fire Protection — Automatic Sprinkler System — **YES**

		Existing SF	Proposed Renovation SF	Total
Proposed Building Area (Table 506.2)	Basement	16,478	0	16,478
	First Floor	210,545	0	210,545
	Second Floor	A: 25,864 B: 18,106 C: 21,608	0	65,578
	Third Floor	A: 17,344 B: 18,145 C: 21,731	**8,582**	57,220
	Fourth Floor	A: 17,214 B: 13,459 C: 20,739	0	51,412
	Fifth Floor	A: 17,098 C:18,686	0	35,784
	Sixth Floor	C:1,390	0	1,390
	Total	UNCHANGED	**8,582**	UNCHANGED

2 HR Separation provided at all existing Occupancy Separations.

Fire Resistance Rating Requirements For Building Elements Table 601:

All Fire Resistance Ratings listed below are existing and unchanged. For all new ratings on non-bearing walls and partitions, see sheet G030.

Primary Structural Frame		3 Hours	X732
Non-Bearing Walls and Partitions - Interior		See the "WALLS/ PARTITIONS/ BARRIERS LEGEND" Sheet	
Fire-Resistance Rating Requirements for Exterior Walls Based on Fire Separation Distance Per Table 602	X < 5ft	1 Hours	N/A
	5ft ≤ X < 10ft	1 Hours	N/A
	10ft ≤ X < 30ft	1 Hours	N/A
	X ≤ 30ft	0 Hours	-
Floor Construction and associated secondary members		2 Hours	D925
Roof Construction and associated secondary members		1.5 Hours	D925

AUTHORITIES HAVING JURISDICTION

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDDPHE)

COLORADO DIVISION OF FIRE PREVENTION AND CONTROL (DFPC)

CITY OF AURORA - BUILDING DIVISION

AURORA FIRE RESCUE

GENERAL PROJECT DESCRIPTION

THIS PROJECT IS A 5,037 SQFT INTERIOR BUILD-OUT OF AN EXISTING SHELL SPACE ON THE THIRD FLOOR OF THE CARDIAC TOWER AT THE MEDICAL CENTER OF AURORA AND WILL PROVIDE AN ADDITIONAL 12 ICU PATIENT BEDS WITH ADDITIONAL SUPPORT SPACE. THIS PROJECT ALSO INCLUDES 3,545 SF OF COSMETIC RENOVATION TO THE CORRIDORS OF THE EXISTING ICU UNIT.

GENERAL PROJECT NOTES

G01. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE DRAWINGS AND THE PROJECT MANUAL. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THESE DRAWINGS AND THE PROJECT MANUAL; AND SHALL IMMEDIATELY NOTIFY THE DESIGN PROFESSIONAL OF ANY INCONSISTENCIES THAT ARE DISCOVERED.

G02. THE CONTRACTOR SHALL PROVIDE CHASES FOR MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, COMMUNICATIONS, ETC., AS REQUIRED AND AS NECESSARY. SEE RESPECTIVE DISCIPLINES' DRAWINGS.

G03. PIPING LOCATED ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES (WITH THE EXCEPTION OF PIPING IN STAIRWAYS, ELECTRICAL ROOMS, MECHANICAL ROOMS AND THE UTILITY OR CENTRAL ENERGY PLANT). THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS. THE CONTRACTOR SHALL GAIN APPROVAL FROM THE DESIGN PROFESSIONAL IN ADVANCE, PRIOR TO LOCATING AND/OR PROVIDING ANY "FURRED SPACES" WHICH ARE NOT SPECIFICALLY INDICATED ON THE FLOOR PLANS.

G04. PROVIDE CONTINUOUS JOINT SEALANT TO PROVIDE "WATER-TIGHT" AND "AIR-TIGHT" CONDITION AT THE PERIMETERS OF ALL DOOR FRAMES, INTERIOR WINDOW FRAMES, EXTERIOR WINDOW FRAMES, WINDOW STOOLS, CABINETS, CASEWORK, COUNTERTOPS, PLUMBING FIXTURES, TOILET ACCESSORIES (BOTH RECESSED & SURFACE MOUNTED), FIRE EXTINGUISHER CABINETS, FIRE DEPARTMENT VALVE CABINETS, ETC. (EVEN WHEN THE JOINT AT THE PERIMETER IS EITHER HIDDEN OR NOT READILY VISIBLE).

G05. EQUIPMENT INDICATED WITH DASHED LINES SHALL BE FURNISHED BY THE OWNER. (SEE EQUIPMENT MANUAL AND/OR VENDOR DRAWINGS.) THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR THE DELIVERY AND INSTALLATION OF ALL OWNER FURNISHED EQUIPMENT.

G06. THE CONTRACTOR SHALL VERIFY THAT EXIT EGRESS IS MAINTAINED FOR ALL OCCUPIED AREAS OF THE BUILDING THROUGHOUT ALL PHASES OF CONSTRUCTION. ALL EXISTING STAIRWAYS AND EXIT PASSAGEWAYS SHALL BE MAINTAINED SO THAT THEY ARE CLEAR AND ACCESSIBLE; AND THE INTEGRITY OF THE PARTITION AROUND THEM SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF CONSTRUCTION.

G07. THE EXISTING BUILDING ENVELOPE SHALL BE MAINTAINED SO AS TO PROVIDE WATER-TIGHT, WEATHER-TIGHT AND CONDITIONED SPACE AT ALL TIMES THROUGHOUT ALL PHASES OF CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED. PROVIDE PORTABLE HEATING UNITS AND/OR COOLING UNITS TO MAINTAIN 70 DEGREES F (INSIDE TEMPERATURE) IN OCCUPIED SPACES, UNLESS OTHERWISE DIRECTED BY THE OWNER.

G08. DO NOT RECESS OR EMBED CONDUIT, PIPING, BACK BOXES OR ANYTHING ELSE INTO ANY TYPE OF ELEVATED SLAB.

G09. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND VERIFYING DIRECTLY WITH THE OWNER REGARDING ANY OWNER DESIRED CHANGES TO THE NUMBERING SYSTEM AND/OR NAMING CONVENTION FOR INDIVIDUAL SPACES, ROOMS, FLOOR LEVELS, ELEVATORS, STAIRS, ETC. IN THE PROJECT. THESE MUST BE VERIFIED PRIOR TO THE LABELING OF, OR IDENTIFICATION OF, ANY OF THESE ITEMS/SPACES IN (OR ON) ELECTRICAL PANELS, MECHANICAL EQUIPMENT, FIRE ALARM SYSTEMS, FIRE ALARM PANELS, ELEVATORS, SIGNAGE, COMMUNICATION SYSTEMS, SECURITY SYSTEMS, ETC.

G10. THE SHAPES AND SIZES OF STRUCTURAL MEMBERS SHOWN ON ARCHITECTURAL FLOOR PLANS, SECTIONS AND DETAILS ARE "DIAGRAMMATIC ONLY". SEE THE STRUCTURAL DRAWINGS FOR THE ACTUAL SHAPE AND SIZE OF EACH STRUCTURAL MEMBER.

G11. WHERE DAMAGED OR MISSING SPRAY FIRE PROOFING IS ENCOUNTERED ON THE EXISTING STRUCTURAL STEEL, OR WHERE REMOVED FOR ATTACHMENT OF NEW ITEMS, PATCH AND REPAIR TO ORIGINAL CONDITION AND FIRE RATING (PER THE UL DESIGN - IF AVAILABLE). SEE DEMOLITION NOTES FOR ADDITIONAL REQUIREMENTS.

ENERGY CODE REQUIREMENTS

Section C402 Building Envelope and Prescriptive Compliance

Opaque Thermal Envelope Insulation Component Minimum Requirements, R-Value Method Table C402.1.3	Roofs	Insulation Above Deck	N/A
		Metal Building	N/A
		Attic and Other	N/A
		Mass	N/A
		Metal Building	N/A
	Walls	Metal Framed	N/A
		Wood Framed and Other	N/A
		Below Grade	N/A
	Floors	Mass	N/A
		Joist/Framing	N/A
	Slab on Grade	Unheated slab	N/A
		Heated slab	N/A
	Doors	Swinging	N/A
		Nonswinging	N/A
		Garage door <14% glazing	N/A
Building Envelope Fenestration Maximum U-Factor and SHGC Requirements Table C402.4	Vertical fenestration (XX% max of above-grade wall) See Code for possible increases		
	Curtain Wall/Storefront (Fixed Fenestration)		N/A
	Windows (Operable Fenestration)		N/A
	Entrance doors (Operable Fenestration)		N/A
	All other (Skylights)		N/A
	SHGC - all frame types		N
	PF < 0.2		SHGC: N/A
	0.2 ≤ PF < 0.5		SHGC: N/A
	PF ≥ 0.5		SHGC: N/A

VICINITY MAP

DRAWING INDEX

SHEET NO.	SHEET NAME	AMEND. #1	AMEND. #2
GENERAL			
G000	COVER SHEET	X	
G010	PROJECT INFORMATION	X	X
G020	GENERAL NOTES		
G030	WALLS/ PARTITIONS/ BARRIERS LEGEND		
ARCHITECTURAL SITE PLAN			
AS200	ARCHITECTURAL SITE PLAN		
LIFE SAFETY PLAN			
AL203	THIRD FLOOR LIFE SAFETY PLAN		
ARCHITECTURE			
A103	THIRD FLOOR - DEMOLITION PLAN		
A203	THIRD FLOOR OVERALL PLAN		
A203.1	THIRD FLOOR NEW CONSTRUCTION PLAN		
A203.2	THIRD FLOOR DIMENSION PLAN		
A500	CASEWORK LEGEND		
A501	ENLARGED PLANS AND INTERIOR ELEVATIONS		
A502	ENLARGED PLANS AND INTERIOR ELEVATIONS		
A510	INTERIOR ELEVATIONS		
A530	CASEWORK AND CABINET DETAILS		
A601	THIRD FLOOR REFLECTED CEILING PLAN		
A630	MISCELLANEOUS CEILING DETAILS		
A801	MISC. DETAILS		
A802	MISCELLANEOUS DETAILS		
A803	MISCELLANEOUS DETAILS		
A835	2017 ACCESSIBILITY DETAILS AND GENERAL NOTES		
A837	2017 TOILET LAYOUTS AND MOUNTING HEIGHTS		
A850	TEMPORARY CONSTRUCTION DETAILS		
A900	DOOR, FRAME, & HARDWARE GENERAL INFO		
INTERIOR DESIGN			
I000	INTERIOR DESIGN GENERAL NOTES AND FINISH LISTING		
I002	TRANSITION, WALL, AND DOOR PROTECTION DETAILS		
I203	THIRD FLOOR - FINISH PLAN		
I203.1	THIRD FLOOR - FLOOR PATTERN PLAN		
I203.2	THIRD FLOOR - FURNITURE PLAN		
GRAPHICS			
AG203	THIRD FLOOR SIGN LOCATION PLAN & MESSAGE SCHEDULE	X	
AG501	PROJECT INFORMATION AND SIGN TYPE DETAILS	X	
FIRE PROTECTION			
FP000	FIRE PROTECTION LEGENDS, NOTES, AND ABBREVIATIONS		
FP303	THIRD FLOOR - FIRE PROTECTION PLAN		
PLUMBING			
P000	PLUMBING LEGENDS, NOTES, AND ABBREVIATIONS	X	
PD203	THIRD FLOOR - PLUMBING DEMOLITION PLAN		
PD303	THIRD FLOOR - MEDICAL GAS DEMOLITION PLAN		
PLUMBING			
P202.1	SECOND FLOOR - PLUMBING PLAN		
P203.1	THIRD FLOOR - PLUMBING PLAN		
P303.1	THIRD FLOOR - MEDICAL GAS PLAN		
P601	PLUMBING DETAILS		
MECHANICAL			
M000	MECHANICAL LEGENDS, NOTES, AND ABBREVIATIONS	X	
MD203	THIRD FLOOR - HVAC DEMOLITION PLAN		
MD303	THIRD FLOOR - PIPING DEMOLITION PLAN		
ME205	ME ROOF PLAN		
MED205	ME ROOF DEMOLITION PLAN		
MECHANICAL			
M203.1	THIRD FLOOR - HVAC PLAN	X	
M303.1	THIRD FLOOR - PIPING PLAN		
M501	MECHANICAL CONTROL DIAGRAMS		
M601	MECHANICAL DETAILS		
M602	MECHANICAL DETAILS		
M701	MECHANICAL SCHEDULES		
ELECTRICAL			
E000	ELECTRICAL LEGENDS, NOTES, AND ABBREVIATIONS	X	
E001	ELECTRICAL ENERGY COMPLIANCE REPORT	X	
ED203	THIRD FLOOR - POWER & SPECIAL SYSTEMS DEMOLITION PLAN		
ED303	THIRD FLOOR - LIGHTING DEMOLITION PLAN		
ELECTRICAL			
E203.1	THIRD FLOOR - POWER PLAN		
E303.1	THIRD FLOOR - LIGHTING PLAN	X	
E403.1	THIRD FLOOR - SPECIAL SYSTEMS PLAN		
E501	ENLARGED ELECTRICAL VIEWS		
E601	ELECTRICAL ONE-LINE DIAGRAM		
E701	ELECTRICAL DETAILS		
E801	ELECTRICAL SCHEDULES		
TECHNOLOGY			
T000	TECHNOLOGY LEGENDS, NOTES, AND ABBREVIATIONS		
TD203	THIRD FLOOR - COMMUNICATION, LOW VOLTAGE & SECURITY DEMOLITION PLAN		
TECHNOLOGY			
T203.1	THIRD FLOOR - COMMUNICATION PLAN		
T303.1	THIRD FLOOR - LOW VOLTAGE PLAN		
T403.1	THIRD FLOOR - SECURITY PLAN		
T501	ENLARGED TECHNOLOGY VIEWS		
T701	TECHNOLOGY DETAILS		
T702	TECHNOLOGY DETAILS		
T703	TECHNOLOGY DETAILS		
T801	TECHNOLOGY SCHEDULES		

PROVIDE A FULL-SIZE SET OF LEGIBLE APPROVED CONSTRUCTION DOCUMENTS **PRINTED IN COLOR** FOR REVIEW BY INSPECTOR

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. **2021 IBC 105.4**

Structural plan review is limited to a general survey for code compliance. No review is implied nor was undertaken to verify structural adequacy.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Jun 29, 2023*
2021 INTERNATIONAL CODES & 2020 NEC

City of Aurora Building Division
Project: *MED CENTR AURORA 3RD FLR ICU E*
Address: *1501 S POTOMAC ST*
Occupancy Group: *IBC I-2*
Construction Type: *TYPE IA SPK*
RSN: *1707621*
Permit: *23-2315197 -LT*

City of Aurora Building Division Reviewed for Code Compliance By: *R. TENORIO*
Date: *Jun 14, 2023*
2021 INTERNATIONAL CODES & 2020 NEC
FIRE/LIFE SAFETY REVIEW ONLY

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GreshamSmith.com

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ID: Leanna Taylor
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AOR: Gregory Gore

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Greenwood Village, CO 80111

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Mech: Ryan Vanderwel
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Telecomm:

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Nashville, TN 37203
HCA Design Mgr.: Zach Wideman
HCA Constr. Mgr.: Marc Brisebois

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Franklin, TN 37067

STATE OF COLORADO
GREGORY A. GORE
ARC.400615
LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description
1	06.05.23	Amendment 1
2	06.13.23	Amendment 2

PROJECT INFORMATION

G010

PROJECT: 45990.00
DATE:

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

6/13/2023 12:03:23 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/45990.00_ArchCentralR22.rvt

02/17/2023
APPROVED

HCA Healthcare

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA

1501 South Potomac Street
Aurora, CO 80012

GS PROJECT NO. 45990.00
HCA PROJECT NO. 2740000034

DATE: 02.17.23

HCA DESIGN MANAGER: ZACH WIDEMAN
HCA CONSTRUCTION MANAGER: MARC BRISEBOIS

CONSTRUCTION DOCUMENTS

Gresham Smith
GreshamSmith.com

GRESHAM SMITH
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02/20/2023 APPROVED

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GENERAL NOTES FOR DEMOLITION FLOOR PLANS

G100. COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING NOTES IN THIS SET OF DRAWINGS WHICH ALSO APPLY TO THE DEMOLITION FLOOR PLANS:
A. "GENERAL NOTES FOR PROJECT"
B. "GENERAL NOTES FOR NEW CONSTRUCTION FLOOR PLANS"
C. "GENERAL NOTES FOR DIMENSION FLOOR PLANS"
D. "GENERAL NOTES FOR REFLECTED CEILING PLANS"

G101. THE DEMOLITION DRAWINGS HAVE BEEN DEVELOPED FROM EXISTING DRAWINGS, AND THEY MAY NOT REFLECT ACTUAL FIELD CONDITIONS. PRIOR TO PROCEEDING WITH ANY WORK, THE CONTRACTOR SHALL VERIFY THE ACCURACY OF THESE DRAWINGS IN COMPARISON TO EXISTING FIELD CONDITIONS AND THEN IMMEDIATELY NOTIFY THE DESIGN PROFESSIONAL OF ANY NCONSISTENCIES BETWEEN THESE DRAWINGS AND ACTUAL CONDITIONS.

G102. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN PROFESSIONAL IF ANY DEMOLITION OR NEW CONSTRUCTION WORK (AS INDICATED IN THE CONSTRUCTION DOCUMENTS) CANNOT BE PERFORMED DUE TO EXISTING FIELD CONDITIONS.

G103. IF ANY EXISTING FIREPROOFING AND/OR RATED ASSEMBLIES (WHICH ARE SHOWN TO REMAIN) ARE DAMAGED DURING DEMOLITION, THEY SHALL BE REPAIRED TO CONFORM TO THE ORIGINAL FIRE PROTECTION REQUIREMENTS.

G104. THE INTEGRITY OF EXISTING RATED FLOOR, PARTITION AND/OR ROOF ASSEMBLIES (WHICH ARE SHOWN TO REMAIN) SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF CONSTRUCTION. AS APPLICABLE, CONTACT DESIGN PROFESSIONAL TO VERIFY TESTED ASSEMBLIES TO BE USED FOR REPAIRS.

G105. REMOVE EXISTING CONSTRUCTION AS INDICATED. TYPICAL WALL REMOVAL SHALL INCLUDE MECHANICAL, PLUMBING, ELECTRICAL, COMMUNICATIONS AND SECURITY SYSTEMS CONTAINED THEREIN. REMOVE DOORS, CASEWORK, WINDOWS, FRAMES, FINISHES, FIXTURES AND THEIR ATTACHMENTS AS REQUIRED. AFTER REMOVAL, REPAIR HOLES IN EXISTING-TO-REMAIN FLOORS, PARTITIONS AND/OR ROOFS TO COMPLY WITH ORIGINAL FIRE, SMOKE AND/OR SOUND ASSEMBLIES, FIRE PROTECTION REQUIREMENTS AND STRUCTURAL INTEGRITY. PREPARE SURFACES TO RECEIVE NEW FINISH PER INTERIOR DESIGN DRAWINGS AND SPECIFICATIONS. WHERE NEW FINISH IS CALLED FOR ON AN EXISTING SURFACE, REMOVE THE EXISTING FINISH AND PREPARE EXISTING SURFACE TO RECEIVE THE NEW FINISH.

G106. SEE CIVIL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, COMMUNICATIONS AND/OR SECURITY SYSTEMS DRAWINGS FOR DEMOLITION OF UTILITIES.

G107. FOR EXTENT AND LOCATIONS FOR THE CUTTING OF EXISTING FLOOR SLABS, REFER TO STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, COMMUNICATIONS AND/OR SECURITY DRAWINGS. IF EXISTING PIPING OR CONDUIT IS ENCOUNTERED WHILE CUTTING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN PROFESSIONAL PRIOR TO CONTINUING WITH ANY WORK.

G108. AT ALL PARTITIONS, FLOORS AND/OR ROOFS WHICH ENCLOSE OR TOUCH SPACES WHERE WORK IS BEING PERFORMED AS A PART OF THIS PROJECT, THE CONTRACTOR SHALL VERIFY THAT ALL ASPECTS OF THE EXISTING CONSTRUCTION MEETS THE FIRE, SMOKE AND/OR SOUND ASSEMBLY RATINGS DESIGNATED ON THESE DRAWINGS. THE CONTRACTOR SHALL ALSO MAKE ANY REPAIRS AND/OR MODIFICATIONS NECESSARY TO BRING THE EXISTING CONSTRUCTION UP TO THE PROPER INDICATED FIRE, SMOKE AND/OR SOUND ASSEMBLY RATINGS. DOORS, WINDOWS AND FRAMES WHICH DO NOT MEET THE REQUIREMENTS OF THE DESIGNATED PARTITION ASSEMBLIES (INCLUDING PROPER LABELS) SHALL BE REPLACED.

G109. DEMOLITION WORK SHALL BE EXECUTED IN CONFORMANCE WITH ALL CODES AND ORDINANCES AS SET FORTH BY ALL AUTHORITIES HAVING JURISDICTION [AHJ].

G110. THE CONTRACTOR SHALL BRACE ALL EXISTING STRUCTURES AND ALL STRUCTURAL ELEMENTS AS NECESSARY DURING DEMOLITION. SEE STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.

G111. THE CONTRACTOR SHALL NOT CUT EXISTING OR NEW STRUCTURES WITHOUT PRIOR WRITTEN APPROVAL FROM THE DESIGN PROFESSIONAL AND/OR STRUCTURAL ENGINEER.

G112. WHERE EXISTING CONSTRUCTION IS FOUND TO CONTAIN ANY HAZARDOUS MATERIAL, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE DESIGN PROFESSIONAL IN WRITING. REMOVAL, DISPOSAL AND REPLACEMENT OF THE HAZARDOUS MATERIAL IS THE SOLE RESPONSIBILITY OF THE OWNER, AND SHALL BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

G113. WHEN ROOFING MATERIALS ARE REMOVED FROM AN EXISTING ROOF DECK, THE CONTRACTOR SHALL VERIFY THAT ALL PENETRATIONS THROUGH THIS EXISTING DECK ARE BOTH PATCHED AND FIRESTOPPED, PER A TESTED ASSEMBLY, TO MAINTAIN BOTH THE FIRE RATED INTEGRITY AND THE STRUCTURAL INTEGRITY (AS DESIGNATED IN THE CONTRACT DOCUMENTS).

G114. THE "LIMITS OF CONSTRUCTION" LINES SHOWN ON THE ARCHITECT'S DEMOLITION FLOOR PLANS APPLY ONLY TO THE LIMITS OF THE ARCHITECTURAL DEMOLITION. SEE THE OTHER DISCIPLINES' DRAWINGS FOR THE LIMITS OF THE DEMOLITION FOR THEIR DISCIPLINE. THE CONTRACTOR SHALL REPLACE OR REPAIR ANY EXISTING-TO-REMAIN MATERIALS AND FINISHES WHICH ARE DAMAGED DURING DEMOLITION OR REMOVED TO INSTALL NEW WORK DURING CONSTRUCTION.

G115. THE CONTRACTOR MUST COORDINATE WITH THE OWNER FURNISHED ICRA PERMIT/REPORT AND PHASING PLANS PRIOR TO STARTING DEMOLITION ACTIVITIES.

GENERAL NOTES FOR NEW CONSTRUCTION FLOOR PLANS

G210. COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING NOTES IN THIS SET OF DRAWINGS WHICH ALSO APPLY TO THE NEW CONSTRUCTION FLOOR PLANS:
A. "GENERAL NOTES FOR PROJECT"
B. "GENERAL NOTES FOR DEMOLITION FLOOR PLANS"
C. "GENERAL NOTES FOR DIMENSION FLOOR PLANS"
D. "GENERAL NOTES FOR REFLECTED CEILING PLANS"
E. "GENERAL NOTES FOR CASEWORK"

G211. EXISTING-TO-REMAIN PARTITIONS, DOORS, WINDOWS, PLUMBING FIXTURES, CASEWORK, EQUIPMENT, ETC., ARE SHOWN AS LIGHT GRAY LINES ON THE NEW CONSTRUCTION FLOOR PLANS. NEW CONSTRUCTION IS INDICATED BY SOLID DARK OR BLACK LINES.

G212. ITEMS DENOTED ON THE NEW CONSTRUCTION FLOOR PLANS WITH A DASHED LINE ARE BEING PROVIDED BY OTHERS. COORDINATION OF NECESSARY WALL/FLOOR/CEILING SUPPORT AND UTILITIES IS REQUIRED BY THE CONTRACTOR. SEE VENDOR DRAWINGS AND/OR EQUIPMENT BOOK.

G213. SEE REFLECTED CEILING PLANS FOR LOCATIONS OF FURR DOWNS AND SOFFITS.

G214. REFER TO THE ACCESSIBILITY SHEETS FOR TYPICAL DETAILS WHICH APPLY TO THE NEW CONSTRUCTION FLOOR PLANS, BUT WHICH MAY NOT BE SPECIFICALLY "KEYED-IN" ON THE FLOOR PLANS.

G215. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE OWNER'S EQUIPMENT VENDORS TO INSURE THAT THERE WILL BE NO OWNER FURNISHED ITEMS (WITH A SURFACE AREA GREATER THAN 16 SQUARE INCHES) RECESSED INTO A RATED PARTITION. SEE DETAILS FOR HOW TO PROVIDE FOR RECESSED ITEMS IN A RATED PARTITION. ITEMS RECESSED IN NON-RATED PARTITIONS AND ALL OTHER FULL HEIGHT PARTITIONS SHALL BE SEALED "AIR-TIGHT" AT ALL PENETRATIONS.

G216. THE "LIMITS OF CONSTRUCTION" LINES SHOWN ON THE ARCHITECT'S NEW CONSTRUCTION FLOOR PLANS APPLY ONLY TO THE LIMITS OF THE ARCHITECTURAL NEW CONSTRUCTION AND RENOVATION. SEE THE OTHER DISCIPLINES' DRAWINGS FOR THE LIMITS OF THE NEW CONSTRUCTION AND RENOVATION FOR THEIR DISCIPLINE.

G217. BEHIND TILE WALLS AT TUBS/SHOWERS, PROVIDE 5/8" TYPE "X" TILE BACKER BOARD TO COMPLY WITH THE SPECIFICATIONS. BEHIND ALL OTHER TUBS/SHOWERS, PROVIDE 5/8" TYPE "X" GLASS MAT PAPERLESS INTERIOR GYPSUM BOARD TO COMPLY WITH THE SPECIFICATIONS.

G218. AT ALL EXTERIOR WALLS CONSTRUCTED OF METAL STUDS, THE 5/8" TYPE "X" *GLASS MAT PAPERLESS INTERIOR* GYPSUM BOARD ON THE INTERIOR SIDE OF THE METAL STUDS SHALL BE EXTENDED UP TO THE STRUCTURE ABOVE AND SHALL BE SEALED FOR "AIR-TIGHT" SEPARATION OF THE EXTERIOR WALL CAVITY FROM ALL INTERIOR SPACES. THE CAVITY OF ALL EXTERIOR WALLS BE SEALED "AIR-TIGHT" AND "SOUND-TIGHT" FROM THE CAVITIES OF ALL INTERIOR WALLS.

G219. NOT USED.

G220. REGARDING ACCESS PANELS:
A. THE CONTRACTOR SHALL VERIFY THAT ACCESS PANELS OF TYPE SPECIFIED ARE INSTALLED IN WALLS AND IN "NON-ACCESSIBLE TYPE" CEILINGS AND SOFFITS WHERE ACCESS, SERVICE OR ADJUSTMENT TO ABOVE CEILING ITEMS MAY BE REQUIRED.
B. ACCESS PANELS SHALL BE THE "FIRE RATED TYPE" EQUAL TO THE RATING OF THE PARTITION, SOFFIT OR CEILING IN WHICH THEY OCCUR.
C. WALL AND CEILING MOUNTED ACCESS PANELS SHALL BE SELF-CLOSING AND "KEY LOCKED". UNLESS OTHERWISE SPECIFIED.
D. ACCESS PANELS SHALL BE GASKETED TO BE "AIR-TIGHT" IN ALL SPACES UNDER NEGATIVE AND POSITIVE PRESSURE

GENERAL NOTES FOR DIMENSION FLOOR PLANS

G230. COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING NOTES IN THIS SET OF DRAWINGS AS THEY ALSO APPLY TO THE DIMENSION FLOOR PLANS:
A. "GENERAL NOTES FOR PROJECT"
B. "GENERAL NOTES FOR DEMOLITION FLOOR PLANS"
C. "GENERAL NOTES FOR NEW CONSTRUCTION FLOOR PLANS"
D. "GENERAL NOTES FOR REFLECTED CEILING PLANS"

G231. THE CONTRACTOR SHALL NOT SCALE THE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE DESIGN PROFESSIONAL PRIOR TO CONTINUING WITH CONSTRUCTION.

G232. DIMENSIONS SHOWN ON THE FLOOR PLANS ARE: TO CENTERLINE OF COLUMNS; TO OUTSIDE FACE OF GYPSUM BOARD AT METAL STUD PARTITIONS; TO OUTSIDE FACE OF EXISTING WALLS; TO OUTSIDE FACE OF CONCRETE/MASONRY PARTITIONS; TO FACE OF EXTERIOR SIDE OF METAL STUDS IN EXTERIOR WALLS WHICH ARE FINISHED WITH CEMENT PLASTER, EXTERIOR INSULATION FINISH SYSTEM [E.I.F.S.] OR SIMILAR MATERIAL; ETC. CRITICAL MINIMUM DIMENSIONS MAY BE INDICATED AS "MINIMUM" OR "MINIMUM CLEAR".

G233. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE THICKNESSES OF THE SCHEDULED FINISH MATERIALS SUCH AS CERAMIC TILE, SOLID SURFACE MATERIAL, ETC., PRIOR TO "LAYING OUT" METAL STUD OR CMU PARTITIONS, SINCE THE TOTAL "OUT-TO-OUT" WALL THICKNESS MUST BE CONSIDERED SO THAT THE REQUIRED "MINIMUM FACE-OF-FINISH" AND "MINIMUM CLEAR FACE-OF-FINISH" DIMENSIONS CAN BE MAINTAINED AFTER THE INSTALLATION OF THE FINISH MATERIALS.

G234. WHERE NEW GYPSUM BOARD PARTITIONS ARE A CONTINUATION OF AN EXISTING WALL OR COLUMN ENCASEMENT, THE FACE OF NEW GYPSUM BOARD SHALL BE ALIGNED WITH FACE OF EXISTING SURFACE REGARDLESS OF RATING.

G235. SEE OWNER FURNISHED VENDOR DRAWINGS FOR CRITICAL DIMENSIONS REQUIRED FOR THOSE ITEMS

G236. THE CONTRACTOR SHALL VERIFY ALL "EDGE OF SLAB" DIMENSIONS BY REFERENCING THE DESIGN PROFESSIONAL'S SECTIONS AND DETAILS.

G237. THE "LIMITS OF CONSTRUCTION" LINES SHOWN ON THE ARCHITECT'S DIMENSIONED FLOOR PLANS APPLY ONLY TO THE LIMITS OF THE ARCHITECTURAL NEW CONSTRUCTION AND RENOVATION. SEE THE OTHER DISCIPLINES' DRAWINGS FOR THE LIMITS OF THE NEW CONSTRUCTION AND RENOVATION FOR THEIR DISCIPLINE.

G238. THE CONTRACTOR SHALL VERIFY THAT FLOOR-MOUNTED CARRIERS FOR WALL MOUNTED SINKS OR LAVATORIES ARE THE TYPE THAT WILL FIT WITHIN 3 5/8" METAL STUD WALLS. NOTIFY DESIGN PROFESSIONAL IMMEDIATELY IF THERE IS A CONFLICT.

G239. NON-ACCESSIBLE WATER CLOSETS AND URINALS SHALL BE MOUNTED SO THAT THERE IS 15" MINIMUM BETWEEN THEIR CENTERLINE AND THE "FINISH FACE" OF ADJACENT SIDE WALL OR TOILET/URINAL PARTITION (UNLESS DIMENSION IS INDICATED TO BE GREATER THAN 15").

G240. INTERIOR METAL STUD PARTITIONS SHALL BE CONSTRUCTED OF 3 5/8" MIN METAL STUDS (OR AS SHOWN BELOW) UNLESS DIMENSIONED, DETAILED OR NOTED OTHERWISE.
WALL-MOUNTED SINGLE WATER CLOSET: 1'-3" OUTSIDE FACE OF 3 5/8" MIN STUD TO OUTSIDE FACE OF 3 5/8" MIN STUDS UNLESS OTHERWISE NOTED ON PHONE
WALL-MOUNTED BACK-TO-BACK WATER CLOSETS: 1'-6" OUTSIDE FACE OF 3 5/8" MIN STUD TO OUTSIDE FACE OF 3 5/8" MIN STUDS
FLOOR-MOUNTED SINGLE WATER CLOSET: 8" OUTSIDE FACE OF 3 5/8" MIN STUD TO OUTSIDE FACE OF 3 5/8" MIN STUDS
FLOOR-MOUNTED BACK-TO-BACK WATER CLOSETS: 1'-0" OUTSIDE FACE OF 3 5/8" MIN STUD TO OUTSIDE FACE OF 3 5/8" MIN STUDS
FIRE EXTINGUISHER CABINET: 6" MIN STUDS
FIRE DEPARTMENT VALVE CABINET: 11" MIN OUTSIDE FACE OF 3 5/8" MIN STUD TO OUTSIDE FACE OF 3 5/8" MIN STUDS
WALL-MOUNTED JANITOR SINK: 6" STUDS
WALL-MOUNTED CLINICAL SINK: 1'-0" OUTSIDE FACE OF 3 5/8" MIN STUD TO OUTSIDE FACE OF 3 5/8" MIN STUDS
WALL-MOUNTED BACK-TO-BACK CLINICAL SINKS: 2'-3" OUTSIDE FACE OF 3 5/8" MIN STUD TO OUTSIDE FACE OF 3 5/8" MIN STUDS
MEDICAL GASES ALARM PANEL [MGAP]: 4" MIN STUD
MEDICAL GASES ZONE VALVE CABINET [MGZV]: 3 5/8" MIN STUDS

G241. IN NON-ACCESSIBLE INPATIENT ROOMS AND TOILET ROOMS: THE WALL MOUNTED SINKS/LAVATORIES SHALL BE MOUNTED SO THAT THERE IS A 4" MINIMUM CLEARANCE BETWEEN THE OUTSIDE FACE OF THE SINK/LAVATORY AND THE "FINISH FACE" OF ADJACENT WALL, PARTITION, FIXED EQUIPMENT AND/OR CASEWORK.

G242. CLINICAL SINKS SHALL BE MOUNTED SO THAT THE CENTERLINE OF THE SINK IS 1'-6" MINIMUM TO THE "FINISH FACE" OF EACH ADJACENT SIDEWALL, PARTITION, FIXED EQUIPMENT AND/OR CASEWORK. THE FLUSH VALVE HANDLE FOR THE CLINICAL SINK SHALL BE INSTALLED ON THE "OPEN-MOST" SIDE OF THE SINK AT 3'-8" MAX AFF TO THE TOP OF THE HANDLE.

G243. PATIENT CORRIDORS AND PASSAGEWAYS SHALL BE 8'-0" MIN CLEAR WIDTH TO FINISH FACE OF THE PARTITION.

GENERAL NOTES FOR REFLECTED CEILING PLANS

G600. COMPLY WITH THE FOLLOWING NOTES IN THIS SET OF DRAWINGS WHICH ALSO APPLY TO THE REFLECTED CEILING PLANS:
A. "GENERAL NOTES FOR PROJECT"
B. "GENERAL NOTES FOR DEMOLITION FLOOR PLANS"
C. "GENERAL NOTES FOR NEW CONSTRUCTION FLOOR PLANS"
D. "GENERAL NOTES FOR DIMENSION FLOOR PLANS"

G601. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE REFLECTED CEILING PLANS WITH ALL OTHER DRAWINGS AND SHALL IMMEDIATELY NOTIFY THE DESIGN PROFESSIONAL OF ANY ERROR, INCONSISTENCY OR OMISSION THAT IS DISCOVERED.

G602. SEE ELECTRICAL, COMMUNICATION, SECURITY AND/OR FIRE PROTECTION DRAWINGS FOR LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS, COMMUNICATION DEVICES, FIRE ALARM DEVICES, SECURITY DEVICES, ETC.

G603. ONLY CEILING MOUNTED EXIT LIGHTS ARE SHOWN ON THE REFLECTED CEILING PLANS. SEE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF WALL MOUNTED EXIT LIGHTS.

G604. SPRINKLER HEADS:
A. SPRINKLER HEAD LOCATIONS ARE NOT INDICATED ON THE REFLECTED CEILING PLANS.
B. NEITHER SPRINKLER HEADS OR CONCEALED SPRINKLER HEAD COVERS ARE ALLOWED TO BE PAINTED. THE CONTRACTOR SHALL VERIFY THAT ANY SPRINKLER HEADS THAT ARE ACCIDENTALLY PAINTED ARE REMOVED FROM THE SITE AND REPLACED WITH NEW SPRINKLER HEADS.

G605.
ACCESS PANELS IN NON-ACCESSIBLE FINISH CEILINGS:
A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL SUB-CONTRACTORS AND WITH THE OWNER'S VENDORS TO VERIFY THAT THE MINIMUM NUMBER OF ACCESS PANELS ARE PROVIDED (BY THE SHARING OF ACCESS PANELS WHEREVER POSSIBLE).
B. LOCATIONS OF ALL ACCESS PANELS MUST BE APPROVED IN ADVANCE BY THE DESIGN PROFESSIONAL IN ORDER TO ENSURE THAT THE "AESTHETIC DESIGN INTEGRITY" OF CEILINGS AND SOFFITS IS MAINTAINED.

G606.
THE CONTRACTOR SHALL ALSO PROVIDE ACCESS PANELS IN GYPSUM BOARD AND/OR OTHER HARD SURFACE CEILINGS AND SOFFITS SO THAT THE DESIGN CONSULTANT AND THE AUTHORITIES HAVING JURISDICTION CAN INSPECT RATED AND NON-RATED PARTITIONS. THESE ACCESS PANELS SHALL BE LOCATED AT INTERVALS NOT TO EXCEED 30'-0" ON CENTER, WITH A MINIMUM OF ONE ACCESS PANEL PER SPACE, AND IN SUCH MULTIPLE LOCATIONS AS NECESSARY TO VIEW ALL PLANES AND SURFACES OF THE RATED AND NON-RATED PARTITIONS.

G607.
THE CONTRACTOR SHALL ADVISE THE OWNER THAT AN 18" MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE BOTTOM OF THE SPRINKLER HEADS AND THE TOP OF ANY FIXED OR MOVEABLE ITEM. THE CONTRACTOR SHALL ALSO ADVISE THE OWNER THAT ITEMS SHALL NOT BE PLACED OR STORED ON TOP OF SHELVING SO THAT THIS CODE REQUIRED 18" MINIMUM VERTICAL CLEARANCE WILL BE MAINTAINED.

G608.

G609. SOFFITS OVER WALL CABINETS ONLY WHERE SOFFITS ARE SPECIFICALLY INDICATED.

WHERE EXISTING LAY-IN CEILINGS ARE REMOVED AND RE-INSTALLED, THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE EITHER THE CEILING TILES OR THE GRID. ANY DAMAGED TILES OR GRID SHALL BE REPLACED WITH NEW MATERIAL. THESE NEW MATERIALS SHALL MATCH THE EXISTING IN A UNIFORM MANNER FOR COLOR, TEXTURE, PATTERN, ETC. IF UNIFORMITY CANNOT BE ACHIEVED, THE CONTRACTOR SHALL REPLACE THE ENTIRE CEILING WITHIN THAT SPACE WITH NEW MATERIAL. THE CONTRACTOR SHALL PROVIDE NEW MATERIAL AS APPROVED BY BOTH OWNER AND DESIGN PROFESSIONAL.

G610.
IN A MEANS OF EGRESS, THE CEILING SHALL BE INSTALLED SO THAT THE MINIMUM CLEAR VERTICAL HEADROOM IS 7'-10" CLEAR AFF, AND SO THAT PROJECTIONS FROM AND BELOW THE CEILING ARE A MINIMUM OF 6'-8" CLEAR AFF.

G611.
THE "LIMITS OF CONSTRUCTION" LINES SHOWN ON THE ARCHITECT'S REFLECTED CEILING PLANS APPLY ONLY TO THE LIMITS OF THE ARCHITECTURAL NEW CONSTRUCTION AND RENOVATION. SEE THE OTHER DISCIPLINES' DRAWINGS FOR THE LIMITS OF THE NEW CONSTRUCTION AND RENOVATION FOR THEIR DISCIPLINE.

G612.
SEE THE REFLECTED CEILING PLANS FOR THE PAINT SPECIFICATIONS AND COLORS OF PAINTED CEILINGS AND INTERIOR SOFFITS.

G613.

G614. NOT USED.

G615. NOT USED.

FOR THE INSTALLATION OF CEILING MOUNTED EQUIPMENT, THE CONTRACTOR SHALL REFER TO THE MANUFACTURER'S INSTRUCTIONS, VENDOR DRAWINGS AND THE STRUCTURAL DRAWINGS FOR SUPPORT AND INSTALLATION DETAILS.

G616.

G617. SUSPENDED TRACKS, RAILS, PIPES, EXIT LIGHTS AND SIGNAGE LOCATED IN THE TRAFFIC PATH OF PATIENTS IN BEDS OR STRETCHERS, INCLUDING THOSE IN INPATIENT SERVICE AREAS, SHALL BE NOT LESS THAN 7'-0" CLEAR AFF.

G618. THE CEILINGS (INCLUDING THEIR PERIMETERS AND ALL PENETRATIONS THROUGH THEM) IN ALL OF THE FOLLOWING SPACES SHALL BE SEALED "AIR-TIGHT": ISOLATION ROOM; NEGATIVE PRESSURE ROOM; POSITIVE PRESSURE ROOM

This sheet of drawings has not been reviewed for code compliance.

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GREGORY A. GORE
ARC-400615
LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

GENERAL NOTES

G020

PROJECT: 45990.00
DATE:

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

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APPROVED

02/20/2023

Drawn By: Author
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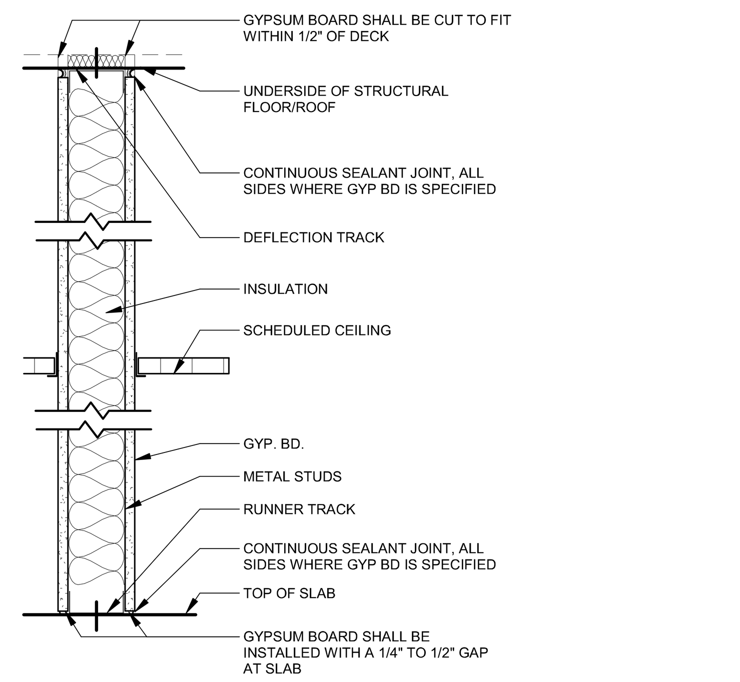
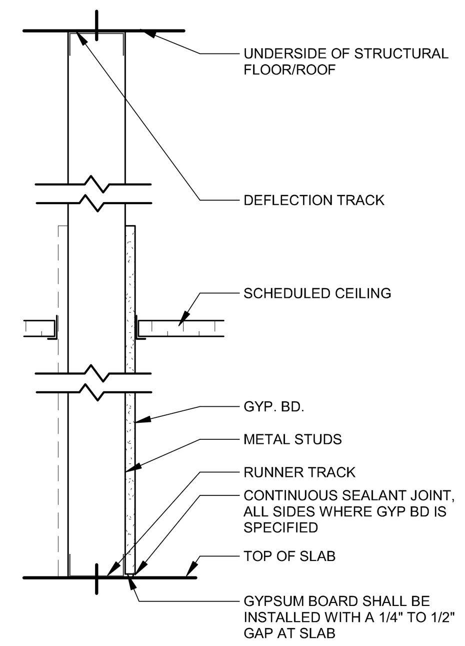


TYPE N - NON-RATED PARTITIONS - TO DECK

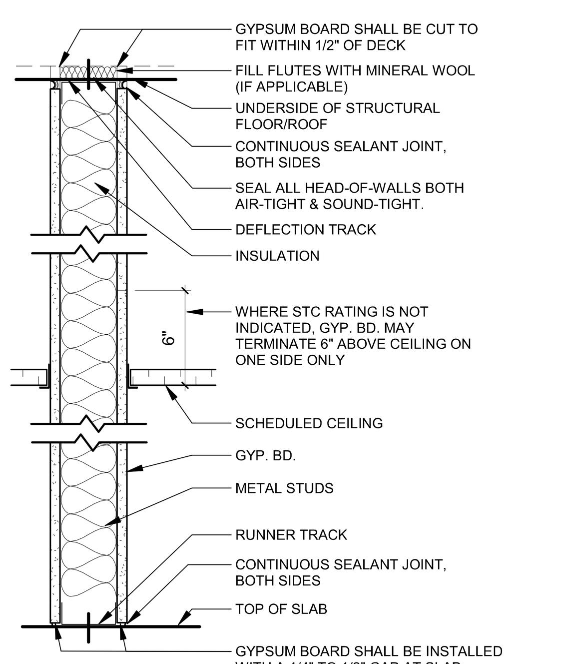
ALL WALLS DESIGNATED WITH THIS SYMBOL SHALL BE PARTITION TYPE N04 UNLESS OTHERWISE NOTED

PARTITION MARK	OVERALL WIDTH	STUD SIZE	GYP BOARD	STC RATING	REMARKS
N02	3 1/8"	2 1/2"	1 LAYER, ONE SIDE	NONE	
N03	4 1/4"	3 5/8"	1 LAYER, ONE SIDE	34	
N03X	4 1/4"	3 5/8"	1 LAYER, ONE SIDE	34	<varies>
N04	4 7/8"	3 5/8"	1 LAYER, BOTH SIDES	48	
N04X	4 7/8"	3 5/8"	1 LAYER, BOTH SIDES	48	<varies>
N06	7 1/4"	6"	1 LAYER, BOTH SIDES	48	



TYPE P - NON-RATED PARTITIONS AND FURR WALLS- NOT TO DECK

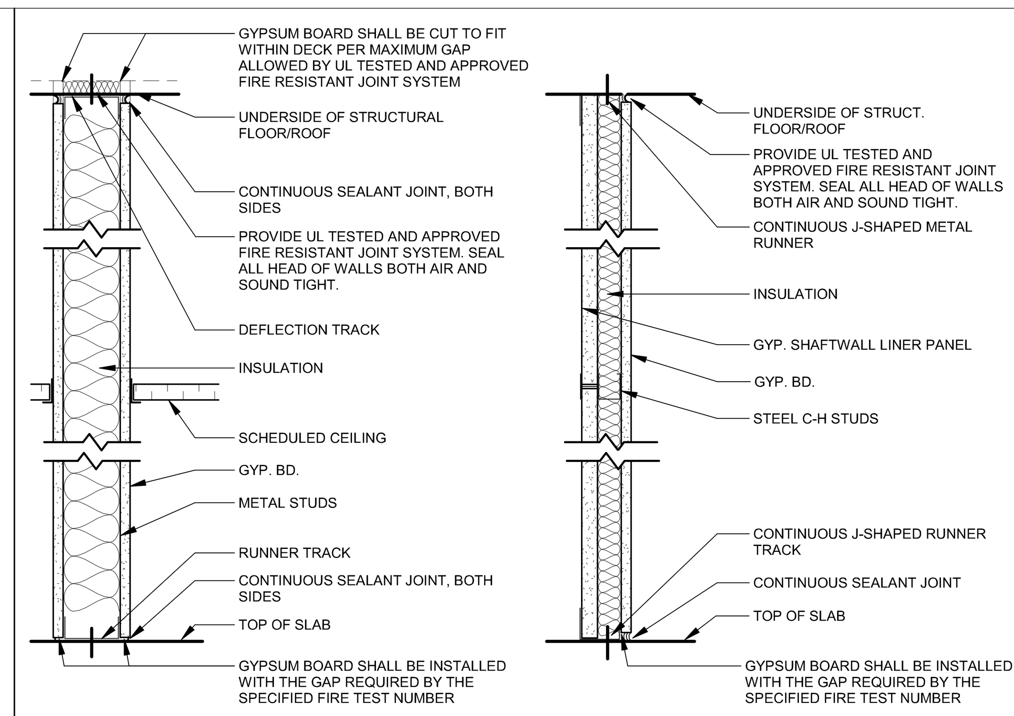
PARTITION MARK	OVERALL WIDTH	STUD SIZE	GYP BOARD	STC RATING	REMARKS
P03	4 1/4"	3 5/8"	1 LAYER, ONE SIDE	NONE	
P04	4 7/8"	3 5/8"	1 LAYER, BOTH SIDES	NONE	



TYPE S - SMOKE RESISTANT PARTITIONS

ALL WALLS DESIGNATED WITH THIS SYMBOL SHALL BE PARTITION TYPE S04 UNLESS OTHERWISE NOTED

PARTITION MARK	OVERALL WIDTH	STUD SIZE	GYP BOARD	STC RATING	REMARKS
S04	4 7/8"	3 5/8"	1 LAYER 5/8", BOTH SIDES	48	
S05	6 5/8"	6"	1 LAYER 5/8", ONE SIDE	37	
S06	7 1/4"	6"	1 LAYER 5/8", BOTH SIDES	48	



TYPE A - 1 HOUR FIRE BARRIERS AND SHAFT WALLS

ALL WALLS DESIGNATED WITH THIS SYMBOL SHALL BE PARTITION TYPE A04 UNLESS OTHERWISE NOTED

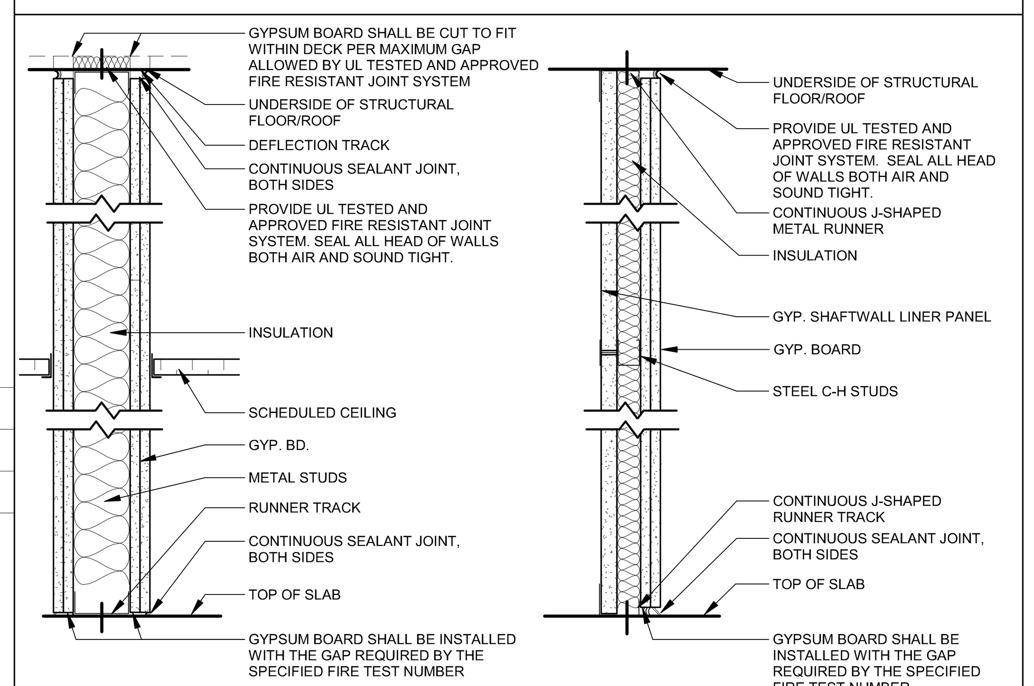
PARTITION MARK	OVERALL WIDTH	STUD SIZE	GYP BOARD	FIRE TEST NUMBER	STC RATING	REMARKS
A04	4 7/8"	3 5/8"	1 LAYER 5/8", BOTH SIDES	U419 OR U465	U419 = 40-49 U465 = 40-49	
A04X	4 7/8"	3 5/8"	1 LAYER 5/8", BOTH SIDES	U419 OR U465	U419 = 40-49 U465 = 40-49	
A05	7 1/4"	6"	1 LAYER 5/8", BOTH SIDES	U419 OR U465	U465 = 48	
A05X	7 1/4"	6"	1 LAYER 5/8", BOTH SIDES	U419 OR U465	U465 = 48	
A30	3 1/8"	2 1/2" CH STUD	1 LAYER 5/8" AND 1 LAYER 1"	U415 OR U469	U415 = 35-58 U469 = 35-39	

SHAFTWALL NOTE:
SHAFTWALLS USED FOR AN ELEVATOR OR STAIR ENCLOSURE MUST MEET ASTM C1629/C1629M LEVEL 2 FOR SOFT BODY AND LEVEL 3 FOR HARD BODY IMPACT. SEE "GENERAL NOTES FOR WALLS/PARTITIONS/BARRIERS" FOR MORE INFORMATION.

TYPE B - 1 HOUR SMOKE BARRIERS

ALL WALLS DESIGNATED WITH THIS SYMBOL SHALL BE PARTITION TYPE B04 UNLESS OTHERWISE NOTED

PARTITION MARK	OVERALL WIDTH	STUD SIZE	GYP BOARD	FIRE TEST NUMBER	STC RATING	REMARKS
B04	4 7/8"	3 5/8"	1 LAYER 5/8", BOTH SIDES	U419 OR U465	U419 = 40-49 U465 = 40-49	
B05	7 1/4"	6"	1 LAYER 5/8", BOTH SIDES	U419 OR U465	U419 = 40-49 U465 = 40-49	

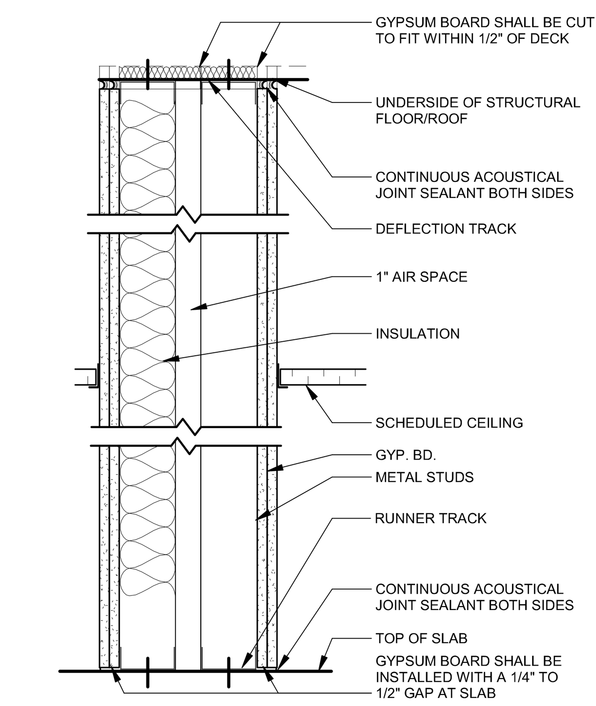


TYPE C - 2 HOUR FIRE BARRIERS AND SHAFT WALLS

ALL WALLS DESIGNATED WITH THIS SYMBOL SHALL BE PARTITION TYPE C04 UNLESS OTHERWISE NOTED

PARTITION MARK	OVERALL WIDTH	STUD SIZE	GYP BOARD	FIRE TEST NUMBER	STC RATING	REMARKS
C04	6 1/8"	3 5/8"	2 LAYERS 5/8" BOTH SIDES	U411 OR U419	U411 = 40-56	
C05	8 1/2"	6"	2 LAYERS 5/8" BOTH SIDES	U411 OR U419	U419 = 56	
C30	5 1/4"	4" CH STUD	2 LAYERS 5/8" AND 1 LAYER 1"	U415 OR U428	U428 = 50-54	

SHAFTWALL NOTE:
SHAFTWALLS USED FOR AN ELEVATOR OR STAIR ENCLOSURE MUST MEET ASTM C1629/C1629M LEVEL 2 FOR SOFT BODY AND LEVEL 3 FOR HARD BODY IMPACT. SEE "GENERAL NOTES FOR WALLS/PARTITIONS/BARRIERS" FOR MORE INFORMATION.



TYPE J - SPECIALTY ACOUSTIC PARTITIONS

PARTITION MARK	OVERALL WIDTH	STUD SIZE	GYP BOARD	STC RATING	REMARKS
J02X	4 7/8"	2, 3 5/8"	1 LAYER, BOTH SIDES	50	SEE DETAIL 11/A802

Emergency Responder Radio Coverage: All New Commercial Buildings that exceed 5,000 sq. ft and any additions to Existing Buildings (when structural changes occur including additions or remodels that could materially change the original fire performance); shall have approved radio coverage for emergency responders within the building. This building must be assessed to determine adequate in-building radio coverage at the time of final frame and electrical inspection by a qualified 3rd party inspection service at the owner/developers' expense. Lack of adequate in-building radio coverage may delay the issuance of a Certificate of Occupancy. Where the structure is found deficient a separate permit is required to install, repair or modify any Emergency Response Radio Coverage system. Per 2021 IFC, Section 510.

SEPARATE FIRE ALARM PERMIT REQUIRED:
Due to the proposed work the general contractor is required to obtain the services of a fire alarm contractor to determine if a separate alarm permit is required. If it is determined that the spacing of the fire alarm devices is not in compliance, then a separate fire alarm permit is required. Approval of the documents is required prior to system installation or any request for inspection. A certificate of occupancy or final approval cannot be issued by the Building Division without this fire protection system. **2021 IFC, Section 105.7.6.**

SEPARATE FIRE SPRINKLER PERMIT REQUIRED:
Due to the proposed work the general contractor is required to obtain the services of a fire sprinkler contractor to determine if a separate sprinkler permit is required. If it is determined that the spacing of the fire sprinkler heads is not in compliance, then a separate fire sprinkler permit is required. Approval of the documents is required prior to system installation or any request for inspection. A certificate of occupancy or final approval cannot be issued by the Building Division without this fire protection system. **2021 IFC, Section 105.7.1.**

GENERAL NOTES FOR WALLS/PARTITIONS/BARRIERS

W01. THE TERM "PARTITION" IS USED THROUGHOUT THE NOTES AND DETAILS FOR A SIMPLE REFERENCE TO THE INTERIOR WALLS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY IF THE PARTITION IS RATED OR NON-RATED, A FIRE BARRIER OR NOT A FIRE BARRIER, ETC. AND THE PARTICULAR REQUIREMENTS OF THE REFERENCED PARTITION.

W02. ALL PARTITION TYPES SHALL BE N04 UNLESS NOTED OTHERWISE.

W03. RATED GYPSUM BOARD ASSEMBLIES:
COMPLY WITH CITED REFERENCE STANDARDS AND THE MOST CURRENT EDITION OF THE "GYPSUM ASSOCIATION GA-600 FIRE RESISTANCE DESIGN MANUAL" AND "GA-234 CONTROL JOINTS FOR FIRE-RESISTANCE RATED SYSTEMS." SEE DETAIL "CONTROL JOINTS IN PARTITIONS" IN A8 SHEETS AND FOR DETAILS PERTAINING TO METAL STUD AND GYPSUM BOARD WALLS. SEE SPECIFICATIONS IN THE PROJECT MANUAL FOR REQUIRED THICKNESS OF METAL STUDS.

W04. PENETRATIONS:
A. FIRE-RESISTANCE RATED ASSEMBLIES: PROVIDE PENETRATION FIRESTOPPING PER THE SPECIFICATIONS.
B. ACOUSTICALLY-RATED ASSEMBLIES: PROVIDE ACOUSTICAL JOINT SEALANTS PER THE SPECIFICATIONS.
C. NON-RATED ASSEMBLIES: SEALANT NOT REQUIRED.
D. OTHER PENETRATIONS: MAXIMUM 1/4" PERIMETER JOINTS.
E. THE GAPS AROUND ALL PENETRATIONS SHALL BE SEALED AIR-TIGHT AND SOUND-TIGHT. PROVIDE FRAMING AROUND ALL PENETRATIONS THROUGH GYPSUM BOARD PARTITIONS PER DETAILS ON THE A8 SHEETS. SEAL PENETRATIONS THROUGH BOTH RATED AND NON-RATED PARTITIONS TO COMPLY WITH SOUND TRANSMISSION LIMITATIONS. PENETRATIONS FOUND IN EXISTING FIRE RESISTANCE RATED ASSEMBLIES THAT ARE NOT FIRESTOPPED ARE REQUIRED TO BE FIRESTOPPED WITH APPROVED UL METHODS AND MATERIALS.

W05. STC RATED ACOUSTICAL SEPARATION ASSEMBLIES:
APPLY SOUND ATTENUATION BLANKETS IN EACH STUD SPACE WITHOUT GAPS OR VOIDS TO PROVIDE FULL COVERAGE. APPLY ACOUSTICAL JOINT SEALANTS TO BOTH SIDES OF TOPS AND BOTTOMS OF WALLS AND VERTICAL JOINTS WITH OTHER CONSTRUCTION. APPLY SEALANT BEAD TO FLOOR AND SET GYPSUM BOARD INTO WET SEALANT. INSTALL ELECTRICAL BOXES ON OPPOSITE SIDES OF PARTITION IN DIFFERENT STUD SPACES AND PROVIDE PUTTY PADS. APPLY ACOUSTICAL JOINT SEALANT CONTINUOUSLY AROUND ALL PENETRATIONS. COMPLY WITH REFERENCED DESIGN STANDARD TO ACHIEVE INDICATED RATINGS.

W06. WHEN SOUND ATTENUATION BLANKETS ARE INDICATED TO BE USED, BUT AN STC RATING IS NOT REQUIRED, PROVIDE A MINIMUM OF ONE LAYER OF GYPSUM BOARD ON AT LEAST ONE SIDE OF THE PARTITION UP TO DECK ABOVE.

W07. THE ENCLOSURE PARTITIONS SHALL BE EXTENDED UP TO THE DECK ABOVE AND BE SEALED "AIR-TIGHT" IN SPACES WHERE SOUND TRANSMISSION LIMITATIONS ARE EITHER REQUIRED BY THE CODE OR NOTED.

This plan was reviewed for adopted codes and **NOT** for compliance with **ADA** or **FHA** accessibility requirements. Contact 800-949-4232 (**ADA**) and 303-894-7822 x 325 (**FHA**) for federal accessibility requirements that apply to your project.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Jun 29, 2023*
2021 INTERNATIONAL CODES & 2020 NEC

DESIGN CRITERIA FOR MINIMUM SOUND ISOLATION PERFORMANCE BETWEEN ENCLOSED ROOMS [1]

2018 Guidelines for Design and Construction of Hospitals Table 1.2-6

Adjacent Combination		STC [2]
Patient Room	Patient Room (wall-same floor)	45 [3]
Patient Room	Patient Room (floor-to-floor)	50
Patient Room	Corridor (with entrance)	35 [4]
Patient Room	Public space	50
Patient Room	Service Area	60 [5]
Exam Room	Corridor (with entrance)	35 [4]
Exam Room	Public space	50
Treatment Room	Treatment Room	50
Treatment Room	Corridor (with entrance)	35
Toilet Room	Public space	45
Consultation Room	Public space	50
Consultation Room	Patient Rooms	50
Consultation Room	Corridor (with entrance)	35 [4]
Patient Room	MRI Room	60 [5]
Exam Room	MRI Room	60 [5]
Exam Room	Exam Room (no electronic masking)	50
Exam Room	Exam Room (with electronic masking)	40 [6]
Public Space	MRI Scanner Room	50
Operating Room	Operating Room	50
Operating Room	MRI Scanner	60 [5,7]

Remove this Chart if not applicable to the project. Edit year/edition if necessary.

[1] Additional spaces shall be added based on the building program

[2] The STC values stated assume the need for normal speech privacy as shown in Table 1.2-7 - except at corridor walls with doors - assuming background sound level of a least 30 dBA. When selecting assemblies based on their tested or published STC ratings, it should be noted that STC test reports can, in general, be considered accurate to +/- 2 STC points. Consequently, an assembly with a tested or published STC rating as low as 2 points below the stated minimum may be considered acceptable.

[3] In cases where greater speech privacy is required between patient rooms when both patient room doors to the connecting corridor are closed, the wall performance requirement shall be STC 50.

[4] This is the performance required for the partition excluding the door. Note that the sound isolation in these instances will be limited by the door's performance. It is up to the facility to determine if doors require a higher acoustic performance or if full perimeter gasketing and bottom seals should be required. Doors are not required to be sound sealed to maintain the STC rating, although a facility may choose to do so for specialty patient environments such as bereavement rooms, consultation rooms, sleep therapy rooms, etc.

[5] Relaxation of STC 60 ratings shall be permitted if compliance with room noise requirements is achieved with lower performance constructions. See Table 1.2-5.

[6] Electronic Masking shall provide a maximum background level of 48 dBA.

[7] This requirement is for operating rooms without doors directly communicating with the MRI scanner room as the STC value shown cannot be achieved when there is a door between an adjacent OR and an MRI scanner room. However, where there is a connecting door, attention to the door shall be paid to assure sound isolation when the MRI is used independently from the operating rooom.

NOTE: This table shall not be applied to mobile/transportable medical units.

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Gregory Gore
Digitally signed by Gregory Gore DN: E=greg.gore@greshamsmith.com, CN=Gregory Gore, O="Gresham, Smith and Partners", L=Nashville, S=Tennessee, C=US Date: 2023.02.20 13:15:14-06'00'
STATE OF COLORADO GREGORY A. GORE ARC-400615 LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

WALLS/ PARTITIONS/ BARRIERS LEGEND

PROJECT: 45990.00
DATE:

G030

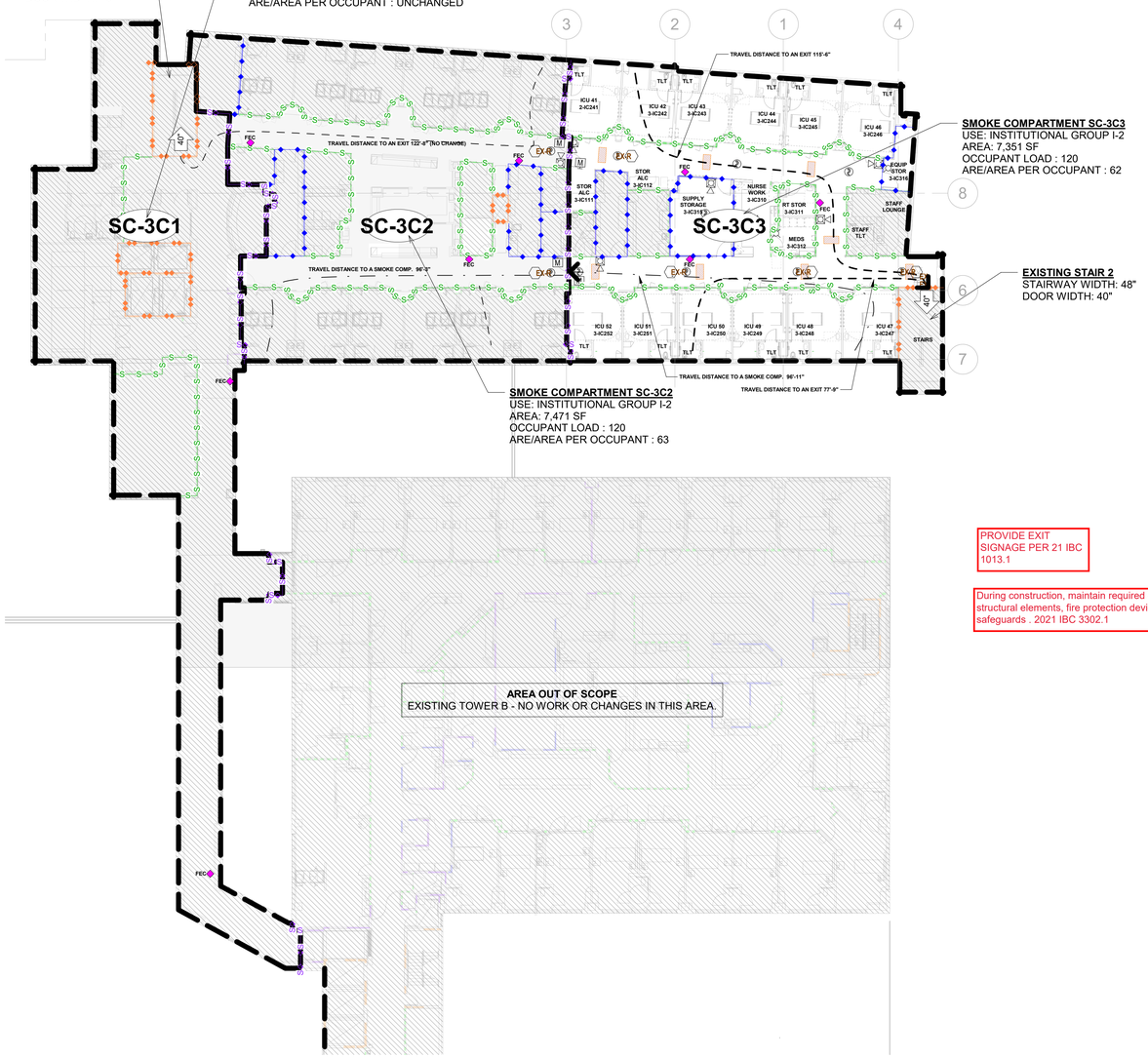
LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

2/17/2023 5:32:21 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/459900_ArchCentralR22.rvt

APPROVED
RSN:1707621 | PERMIT# 23-2315197-LT

Drawn By: Author
Checked By: Checker
Approved By: Approver

EXISTING TOWER C CONTAINS SMOKE COMPARTMNTS SC-3C1, SC-3C2 AND SC-3C3. **RENOVATION WORK IS OCCURING IN ONLY SMOKE COMPARTMENTS SC-3C2 AND SC-3C3.**



PROVIDE EXIT SIGNAGE PER 21 IBC 1013.1

During construction, maintain required exits, existing structural elements, fire protection devices and sanitary safeguards . 2021 IBC 3302.1

1 LIFE SAFETY PLAN - THIRD FLOOR
1/16" = 1'-0"

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Jun 29, 2023*
2021 INTERNATIONAL CODES & 2020 NEC

LEGEND

NON-RATED PARTITION
NON- RATED SMOKE TIGHT PARTITION
ONE HOUR FIRE BARRIER
ONE HOUR SMOKE BARRIER
TWO HOUR FIRE BARRIER
TWO HOUR SMOKE BARRIER
SMOKE COMPARTMENT DESIGNATION — SC1A
SUITE DESIGNATION — S13
CLEAR WIDTH OF EGRESS DOOR (IN INCHES) — 29"
TRAVEL DISTANCE TO EXIT DOOR — 144'-8"
TRAVEL DISTANCE TO DOOR INTO ADJACENT SMOKE COMPARTMENT — 144'-8"
EXIT LIGHTS (ARROWS INDICATE DIRECTION OF EGRESS)
FIRE EXTINGUISHER/FIRE EXTINGUISHER CABINET — FE
HAZARDOUS STORAGE
SUITE EXIT (optional)
STANDPIPE — SP
FIRE ALARM MANUAL PULL STATION — F
FIRE ALARM AUDIO DEVICE - INDICATES STROBE
SHADING INDICATES SUITE BOUNDARY

GENERAL NOTES FOR LIFE SAFETY PLANS

G200. THE EXISTING-TO-REMAIN PORTIONS OF THE LIFE SAFETY FLOOR PLANS WERE PROVIDED TO THE ARCHITECT. GRESHAM SMITH TAKES NO RESPONSIBILITY FOR THEIR ACCURACY BEYOND THE "LIMITS OF CONSTRUCTION" AS DEFINED ON THE ARCHITECTURAL FLOOR PLANS ON THE A2 SHEETS.

G201. THE LIFE SAFETY PLANS ARE "DIAGRAMMATIC ONLY". THEIR PURPOSE IS SOLELY TO REPRESENT THE LIFE SAFETY COMPONENTS FOR THE PROJECT (AS INCLUDED IN THE CONSTRUCTION DOCUMENTS PREPARED BY THE ARCHITECT AND ENGINEERS). THE CONTRACTOR SHALL USE THE CONSTRUCTION DOCUMENTS (NOT THE LIFE SAFETY PLANS) FOR THE IMPLEMENTATION OF THE REQUIRED LIFE SAFETY COMPONENTS INTO THE PROJECT.

G202. THE CONTRACTOR SHALL ADVISE THE ARCHITECT IMMEDIATELY UPON DISCOVERY OF ANY LIFE SAFETY COMPONENT THAT IS SHOWN ON THE LIFE SAFETY PLANS BUT HAS NOT BEEN INCLUDED IN THE CONSTRUCTION DOCUMENTS PREPARED BY THE ARCHITECT AND/OR ENGINEERS

G203. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THAT THE REQUIRED VISIBILITY FOR EACH EXIT SIGN SHALL BE VISIBLE, WITHOUT DIMINISHMENT IN THE DIRECTION OF TRAVEL.

G204. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STENCILING EACH "WALL/PARTITION/BARRIER" CLASSIFICATION IN RED LETTERS ABOVE THE FINISH CEILING ON EACH SIDE OF ALL PARTITIONS.

G205. ALTHOUGH NOT INDICATED ON THE LIFE SAFETY PLANS, ALL CORRIDORS IN HOSPITALS SHALL (AT A MINIMUM) BE ENCLOSED WITH "SMOKE PARTITIONS" WHICH COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE.

LIFE SAFETY SYSTEMS NOTES FOR THE PROJECT

THE SCOPE OF WORK FOR THE PROJECT ONLY IMPACTS TOWER C SMOKE COMPARTMENTS - **SC3C2 & SC3C3.** THE OTHER EXISTING SMOKE COMPARTMENTS ON THIS FLOOR REMAIN UNCHANGED. THE PROJECT DOES NOT CHANGE THE SYSTEM ZONING FOR THE EXISTING SMOKE COMPARTMENTS AND WILL CONTINUE TO INTEGRATE WITH THE EXISTING FACILITY SYSTEM. THE DESIGN PROVIDES DEDICATED FIRE PROTECTION SYSTEMS, SPRINKLERS AND ALARMS TO EACH SMOKE COMPARTMENT IN THE PROJECT. THE EXISTING FIRE PROTECTION SYSTEMS OF THE BUILDING FOLLOWS THIS SAME DESIGN.

THE PROJECT IS DESIGNED AS DEFEND-IN-PLACE WITH SELECTIVE EVACUATION.

IN REGARDS TO THE FIRE SPRINKLER SYSTEM - REFER TO SPEC SECTION 21 1000.
THE CONTRACTOR SHALL PROVIDE A DEDICATED SPRINKLER ZONE FOR EACH NEW SMOKE COMPARTMENT TO INTEGRATE WITH THE EXISTING-TO-REMAIN FACILITY SYSTEMS.

IN REGARDS TO THE FIRE-ALARM CONTROL SYSTEM - REFER TO SPEC SECTION 28 3100.
THE CONTRACTOR SHALL PROVIDE SYSTEM ZONING WITH THE FIRE-ALARM SYSTEM AND ALL ASSOCIATED CIRCUITS SHALL BE ARRANGED TO COMPLY WITH ZONING REQUIREMENTS OF NFPA 72 AND THE FOLLOWING:
1. EACH SMOKE COMPARTMENT IS AN EVACUATION SIGNALING ZONE FOR THIS PROJECT.
A. THE SYSTEM SHALL BE DESIGNED TO CONNECT INTO THE EXISTING FACILITY SYSTEM. EACH ZONE SHALL BE CAPABLE OF PROVIDING SIGNALING AND EVACUATION INDEPENDENTLY OF THE EXISTING BUILDING.
B. EACH SMOKE COMPARTMENT SHALL COMMUNICATE STATUS TO A STAND-ALONE MONITOR LOCATED IN THE MAIN HOSPITAL PBX AND FIRE COMMAND CENTER.

CALCULATIONS FOR OCCUPANT LOADS AND EXIT EGRESS

Calculations for Occupant Loads and Exit Egress

Smoke Compartment Designation	Occupants GA = OLF = OL			Stairways OL x WF = WR vs. WP			Other Components OL x OF = OWR vs. OWP		
	Gross Area	Occupant Load Factor	Occupant Load	Width Factor	Width Required (Inches)	Width Provided (Inches)	Other Factor	Other Width Required	Other Width Provided
SC-3C1	6983 SF	120	59	0.3	18	48	0.2	12	40
SC-3C2	7471 SF	120	63	0.3	19	48	0.2	13	40
SC-3C3	7351 SF	120	62	0.3	19	48	0.2	12	40
	21804 SF		184		56	144		37	120

NOTES

CODE REFERENCE FOR HOSPITAL PROJECTS IN THE STATE OF COLORADO:

NFPA 101, LIFE SAFETY CODE 2018
INTERNATIONAL BUILDING CODE 2018 EDITION

1. MAXIMUM ALLOWABLE SQUARE FOOTAGE OF A SMOKE COMPARTMENT IS 40,000 SQUARE FEET, PER MOST STRINGENT REQUIREMENTS OF NFPA 101 SECTION 18.3.7.1(3) AND IBC SECTION 407.5.

2. OCCUPANT LOAD FACTOR IS DETERMINED PER MOST STRINGENT REQUIREMENTS OF NFPA 101 TABLE 7.3.1.2 AND IBC TABLE 1004.5.

3. OCCUPANT LOAD IS DETERMINED PER MOST STRINGENT REQUIREMENTS OF NFPA 101 SECTION 18.1.7 AND IBC SECTION 1004.

4. EGRESS CAPACITY WIDTH FACTOR IS DETERMINED PER MOST STRINGENT REQUIREMENTS OF NFPA 101 TABLE 7.3.3.1 AND IBC SECTION 1005.

5. MINIMUM CLEAR EXIT EGRESS WIDTH REQUIRED IS 41.5 INCHES, PER MOST STRINGENT REQUIREMENTS OF NFPA 101 SECTION 18.2.3.6 AND IBC SECTION 1010.1.1.

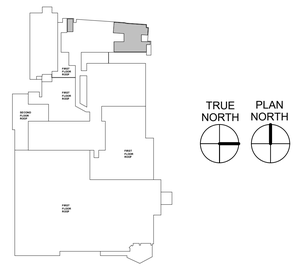
6. MAXIMUM TRAVEL DISTANCE FROM "THE MOST REMOTE POINT IN A HEALTH CARE SLEEPING ROOM" TO "AN EXIT ACCESS DOOR" IS 50 FEET, PER MOST STRINGENT REQUIREMENTS OF NFPA 101 SECTION 18.2.6.2.3

7. MAXIMUM TRAVEL DISTANCE FROM "ANY ROOM DOOR REQUIRED AS AN EXIT ACCESS" TO "AN EXIT" IS 200 FT, PER NFPA 101 SECTION 18.2.6.2.1 AND IBC TABLE 1017.2.

8. MAXIMUM TRAVEL DISTANCE FROM "THE MOST REMOTE POINT IN A ROOM" TO "A DOOR INTO AN ADJACENT SMOKE COMPARTMENT" IS 200 FEET, PER MOST STRINGENT REQUIREMENTS OF NFPA 101 SECTION 18.3.7.1(5) AND IBC SECTION 407.5.

9. AREAS OF SMOKE COMPARTMENTS IN EXISTING CONSTRUCTION PROVIDED TO ARCHITECT BY OWNER HAVE NOT BEEN VERIFIED.

KEY PLAN



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STATE OF COLORADO
GREGORY A. GORE
ARC.400015
LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

THIRD FLOOR LIFE SAFETY PLAN

AL203

PROJECT: 45990.00
DATE:

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
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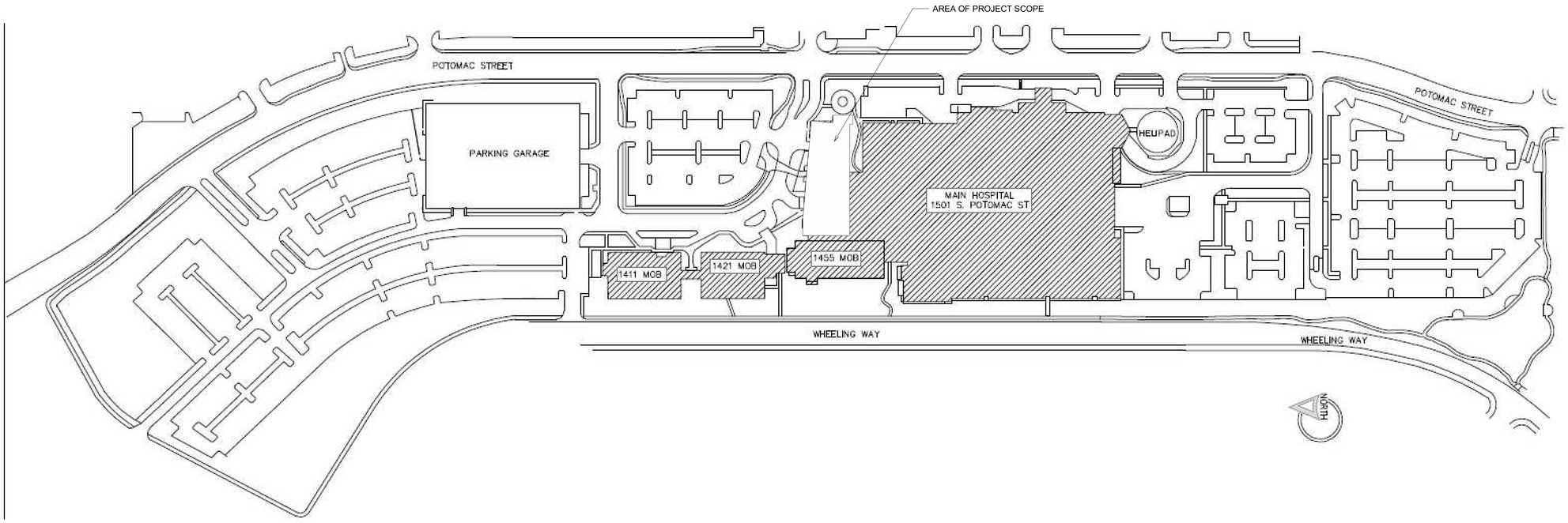
Drawn By: Author
Checked By: Checker
Approved By: Approver



SITE PLAN PROVIDED FOR REFERENCE ONLY

1 ARCHITECTURAL SITE PLAN
NOT TO SCALE

This sheet of drawings has not been reviewed for code compliance.

Gresham Smith

GreshamSmith.com

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wsp

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STATE OF COLORADO
GREGORY A. GORE
ARC.402615
LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

ARCHITECTURAL SITE PLAN

AS200

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APPROVED
RSN:1707621 | PERMIT# 23-2315197-LT

Drawn By: Author
Checked By: Checker
Approved By: Approver

1 THIRD FLOOR - ICU BUILD-OUT - DEMOLITION PLAN
1/8" = 1'-0"

This sheet of drawings has not been reviewed for code compliance.

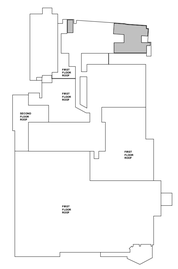
DEMOLITION PLAN LEGEND

- DEMOLITION
- TYPE A - 1 HOUR FIRE BARRIERS TO REMAIN
- TYPE B - 1 HOUR SMOKE BARRIERS TO REMAIN
- TYPE C - 2 HOUR FIRE BARRIERS TO REMAIN
- TYPE D - 2 HOUR SMOKE BARRIERS TO REMAIN
- TYPE N - NON-RATED PARTITION TO REMAIN
- TYPE S - SMOKE RESISTANT PARTITION TO REMAIN
- GXXX SEE "GENERAL NOTES"
- 501 SEE "KEYNOTES"
- IRCA PARTITIONS
- AREA OUT OF SCOPE

SHEET SPECIFIC KEYNOTES

101	ACTIVATE ALL ICRA PROTOCOLS. ACTIVATE NEGATIVE AIR AND PROVIDE STICKY MATS AS REQUIRED AT ALL CONSTRUCTION ZONE ENTRANCES. CONTRACTOR SHALL COVER AND PROVIDE DUST PROTECTION FOR ANY EQUIPMENT TO REMAIN (COORDINATE WITH OWNER IN THE FIELD. ERECT TEMPORARY CONSTRUCTION BARRIERS AS REQUIRED PER FACILITY (SEE SHEET A850.)
102	CONTRACTOR TO SCHEDULE AND COORDINATE WITH OWNER ANY OFF-HOURS CONSTRUCTION TO PERFORM DEMOLITION AND NEW CONSTRUCTION WORK.
103	CONTRACTOR TO ENSURE REMOVAL OF EQUIPMENT IS COORDINATED WITH OWNER IN THIS SPACE.
104	REFER TO ELECTRICAL, MECHANICAL, FIRE PROTECTION, PLUMBING AND TELECOMM DRAWINGS FOR ADDITIONAL SCOPE OF DEMOLITION IN THIS AREA.
105	REMOVE PARTITIONS TO DECK IN THEIR ENTIRETY.
106	REMOVE ALL FLOORING AND BASE IN CORRIDORS AND SPACES OPEN TO CORRIDORS. SEE INTERIORS DRAWINGS FOR FULL EXTENT. COORDINATE WORK WITH OWNER SO THAT CORRIDORS STAY OPEN.
107	EXIT STAIR TO REMAIN ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION.
108	EXISTING PIPING AND UTILITIES TO REMAIN. COORDINATE EXISTIGN LOCATIONS WITH NEW CONSTRUCTION DRAWINGS. IF ANY DISCREPANCIES ARE FOUND - NOTIFY ARCHITECT.
109	REMOVE COLUMN WRAPS. TYPICAL AT ALL LOCATIONS IN DEMOLITION SPACE.
110	REMOVE LIGHTS, DIFFUSERS AND OTHER CEILING DEVICES AS NOTED IN THE MEPT DRAWINGS. COORDINATE REMOVAL OF EXISTING PIPING, CONDUIT, WIRING OR DEVICES WITH OWNER.
111	REMOVE DOOR AND FRAME.
112	REMOVE SMOKE BARRIER PARTITION, DOOR, FRAME AND ASSOCIATED HARDWARE.
113	REMOVE METAL PARTITION AND DOOR.
114	REMOVE GYP BOARD AND FURR-OUT ON THIS SIDE OF STAIR. CONTRACTOR TO ENSURE EXISTING RATING REMAINS. IF PATCHING IS REQUIRED TO REPAIR RATING, CONTRACTOR TO DO SO.
115	REMOVE AND REPLACE ANY DAMAGED GYP BOARD ON EXISTING WALL. ENSURE ANY EXISTING RATING IS MAINTAINED.
116	REMOVE ALL MILLWORK AT THIS LOCATION AND PATCH WALLS AS NECESSARY.

KEY PLAN



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STATE OF COLORADO
GREGORY A. GORE
ARC.400615
LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

THIRD FLOOR - DEMOLITION PLAN

A103

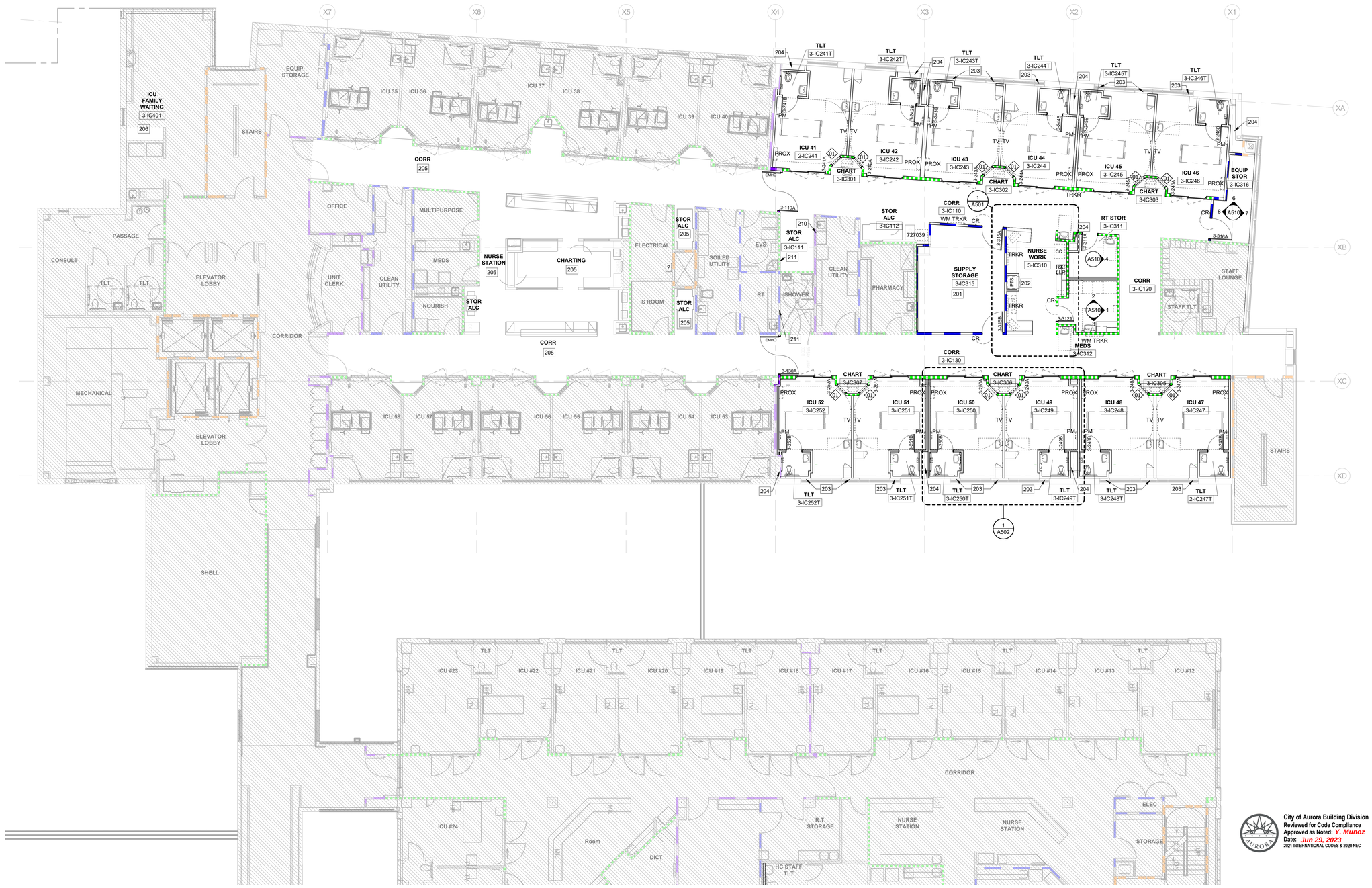
PROJECT: 45990.00
DATE:

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

2/17/2023 5:30:58 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/45990_ArchCentralR22.rvt

APPROVED
RSN:1707621 | PERMIT# 23-2315197-LT

Drawn By: Author
Checked By: Checker
Approved By: Approver



1 THIRD FLOOR - NEW CONSTRUCTION PLAN
1/8" = 1'-0"

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Y. Munoz
Date: Jun 29, 2023
2021 INTERNATIONAL CODES & 2020 NEC

NEW CONSTRUCTION PLAN LEGEND

- TYPE A - 1 HOUR FIRE BARRIERS TO REMAIN
- TYPE B - 1 HOUR SMOKE BARRIERS TO REMAIN
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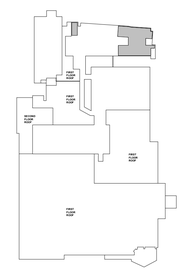
- TYPE N - NON-RATED PARTITION
- TYPE S - SMOKE RESISTANT PARTITION
- 10909 OWNER FURNISHED EQUIPMENT
- GXXX SEE "GENERAL NOTES"
- 501 SEE "KEYNOTES"
- 101A DOOR DESIGNATION
- A EXTERIOR WINDOW DESIGNATION
- D1 INTERIOR WINDOW DESIGNATION
- B1 TOILET ACCESSORY
- A00 WALL DESIGNATION
- AREA OUT OF SCOPE

SHEET SPECIFIC KEYNOTES

201	PROVIDE WALL BACKING FOR VENDOR SUPPLIED WALL-HUNG EQUIPMENT. SEE VENDOR DRAWINGS FOR FURTHER REQUIREMENTS.
202	NEW PNUEMATIC TUBE STATION - COORDINATE WITH OWNER'S VENDOR.
203	EXISTING SPANDREL GLASS WITH GYP BOARD. IF GYP BOARD IS DAMAGED, REPLACE AS NEEDED.
204	EXISTING PIPES TO REMAIN. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION AND CLEAN-OUTS REQUIRED TO BE RELOCATED. IF DIMENSIONS REQUIRED AT PIPE ENCLOSURE DIFFER FROM DRAWING, NOTIFY ARCHITECT.
205	PROVIDE NEW FINISHES - SEE INTERIOR DESIGN DRAWINGS FOR ADDITIONAL INFORMATION.
206	PATCH WALL AS REQUIRED DUE TO REMOVAL OF EXISTING CASEWORK - SEE INTERIOR DESIGN DRAWINGS FOR ADDITIONAL INFORMATION.
210	DOWNGRADE EXISTING WALL FROM 1HR FIRE/SMOKE TO 1 HR FIRE. UPDATE STENCILING ON WALL, ENSURE ALL FIRE RATING REQUIREMENTS ARE MET.
211	UPGRADE EXISTING WALL TO 1 HR FIRE/SMOKE. MEET ALL REQUIREMENTS IN WALL TYPE B04.

KEY PLAN



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STATE OF COLORADO
GREGORY A. GORE
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LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

THIRD FLOOR NEW CONSTRUCTION PLAN

A203.1

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

PROJECT: 45990.00
DATE:

2/17/2023 5:31:10 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/459900_ArchCentralR22.rvt

APPROVED

RSN:1707621 | PERMIT# 23-2315197-LT

Drawn By: Author
Checked By: Checker
Approved By: Approver

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Jun 29, 2023*
2021 INTERNATIONAL CODES & 2020 NEC

DIMENSION PLAN LEGEND

- TYPE A - 1 HOUR FIRE BARRIERS TO REMAIN
- TYPE B - 1 HOUR SMOKE BARRIERS TO REMAIN
- TYPE C - 2 HOUR FIRE BARRIERS TO REMAIN
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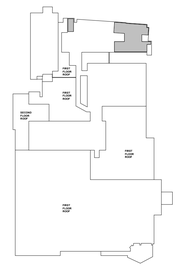
- TYPE S - SMOKE RESISTANT PARTITION
- GXXX — SEE "GENERAL NOTES"
- 501 — SEE "KEYNOTES"
- A00 — WALL DESIGNATION
- 10909 — OWNER FURNISHED EQUIPMENT
- 101A — DOOR DESIGNATION
- A — EXTERIOR WINDOW DESIGNATION
- 01 — INTERIOR WINDOW DESIGNATION
- B1 — TOILET ACCESSORY
- MPD — MINIMUM POSSIBLE DIMENSION

SHEET SPECIFIC KEYNOTES

201	PROVIDE WALL BACKING FOR VENDOR SUPPLIED WALL-HUNG EQUIPMENT. SEE VENDOR DRAWINGS FOR FURTHER REQUIREMENTS.
202	NEW PNUEMATIC TUBE STATION - COORDINATE WITH OWNER'S VENDOR.
203	EXISTING SPANDREL GLASS WITH GYP BOARD. IF GYP BOARD IS DAMAGED, REPLACE AS NEEDED.
204	EXISTING PIPES TO REMAIN. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION AND CLEAN-OUTS REQUIRED TO BE RELOCATED. IF DIMENSIONS REQUIRED AT PIPE ENCLOSURE DIFFER FROM DRAWING, NOTIFY ARCHITECT.
207	CONTRACTOR TO CONFIRM EXISTING WALLS AT NEW PATIENT ROOMS GO TO DECK AND CONTAIN INSULATION. IF INSUALTION IS NOT PRESENT, REMOVE GYP ON RENOVATION SIDE, PROVIDE INSULATION AND REPLACE.
208	PROVIDE WALL TYPE P04 AT EXTERIOR WINDOW AND PATIENT WARDROBE CABINET. FINISH BOTH SIDES.
209	CONTRACTOR TO CONFIRM EXISTING CHASE IS RATED. IF IT IS NOT, PROVIDE NEW 1HR WALL AT THIS LOCATION TO ENSURE RATING IS CARRIED TO EXTERIOR WALL.
210	DOWNGRADE EXISTING WALL FROM 1HR FIRE/SMOKE TO 1 HR FIRE. UPDATE STENCILING ON WALL. ENSURE ALL FIRE RATING REQUIREMENTS ARE MET.
211	UPGRADE EXISTING WALL TO 1 HR FIRE/SMOKE. MEET ALL REQUIREMENTS IN WALL TYPE B04.

KEY PLAN



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STATE OF COLORADO
GREGORY A. GORE
ARC.400815
LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

THIRD FLOOR DIMENSION PLAN

A203.2

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

PROJECT: 45990.00
DATE:

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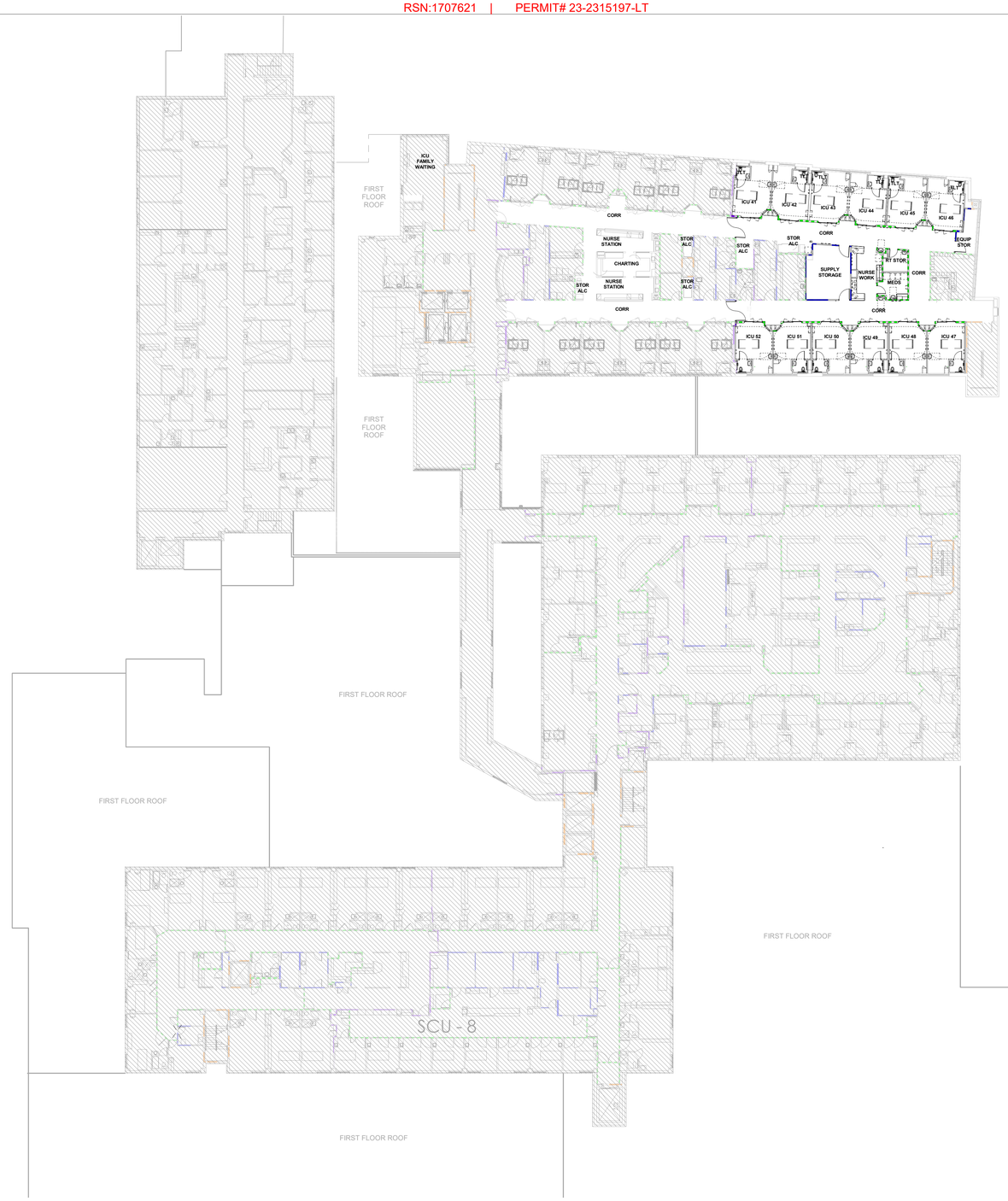
APPROVED
02/20/2023

RSN:1707621 | PERMIT# 23-2315197-LT

Drawn By: Author
Checked By: Checker
Approved By: Approver



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Jun 29, 2023*
2021 INTERNATIONAL CODES & 2020 NEC

1 THIRD FLOOR - OVERALL PLAN
1" = 20'-0"
0' 8' 16' 32' 48'

NEW CONSTRUCTION PLAN LEGEND

- TYPE A - 1 HOUR FIRE BARRIERS TO REMAIN
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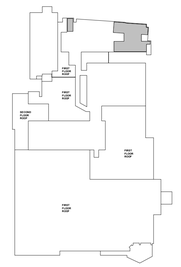
- A EXTERIOR WINDOW DESIGNATION
- 01 INTERIOR WINDOW DESIGNATION
- B1 TOILET ACCESSORY
- A00 WALL DESIGNATION
- AREA OUT OF SCOPE

KEY PLAN



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STATE OF COLORADO GREGORY A. GORE ARC.400615 LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
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HCA Project No.: 2740000034

Revision		
No.	Date	Description

THIRD FLOOR OVERALL PLAN

A203

PROJECT: 45990.00
DATE:

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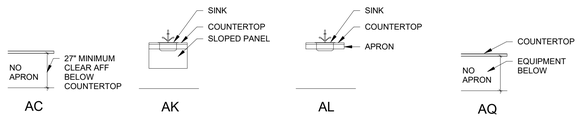
APPROVED

Drawn By: Author
Checked By: Checker
Approved By: Approver

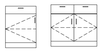
CASEWORK LEGEND

NOTE: COMPLY WITH ALL REQUIREMENTS INCLUDED IN THE "GENERAL NOTES FOR CASEWORK"

A APRONS & SINKS IN COUNTERTOPS

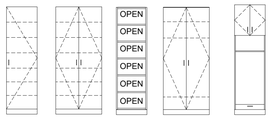


B BASE CABINETS



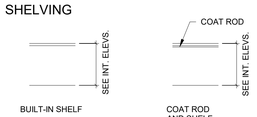
D DRAWER & FILE DRAWER BASE CABINETS

F FULL HEIGHT CABINETS

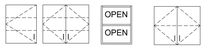


N NON-ACCESSIBLE BASE CABINETS & APRONS FOR SINKS

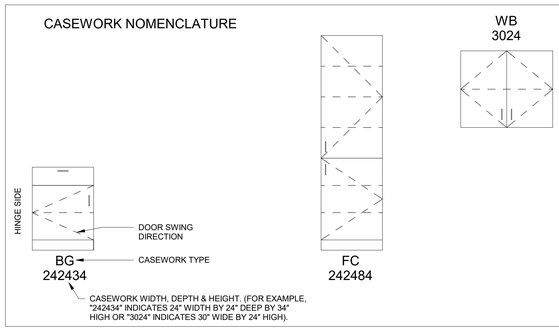
S SHELVING



W WALL CABINETS



CASEWORK NOMENCLATURE



GENERAL NOTES FOR CASEWORK LEGEND

1. COMPLY WITH ALL REQUIREMENTS INCLUDED IN THE "GENERAL NOTES FOR CASEWORK".
2. SEE THE INTERIOR ELEVATION SHEETS FOR LOCATIONS OF EACH TYPE OF CASEWORK AS IDENTIFIED BY THE DESIGNATIONS IN THE LEGEND. IF AN INTERIOR ELEVATION HAS NOT BEEN DRAWN FOR ALL CASEWORK SHOWN ON THE FLOOR PLANS, ADVISE THE DESIGN PROFESSIONAL IMMEDIATELY.
3. COUNTERS WITH SINKS SHALL BE SOLID SURFACE MATERIAL UNLESS OTHERWISE NOTED. IF ONE COUNTER IN A ROOM IS SOLID SURFACE MATERIAL, ALL COUNTERS WITHIN THAT ROOM SHALL ALSO BE SOLID SURFACE MATERIAL UNLESS OTHERWISE NOTED.
4. CASEWORK SHALL BE PLASTIC LAMINATE UNLESS OTHERWISE NOTED.
5. SEE INTERIOR DESIGN GENERAL NOTES AND INTERIOR DESIGN FINISH LISTING FOR ADDITIONAL FINISH REQUIREMENTS.
6. ALL SHELVING TO BE ADJUSTABLE, UNLESS OTHERWISE NOTED.
7. ALL DRAWERS SHALL HAVE FULL-EXTENSION SLIDES.
8. BASE CABINETS HEIGHTS ARE TO FINISH COUNTERTOP, FOR EXAMPLE, "242434" INDICATES 24" WIDE BY 24" DEEP UNIT WITH 34" FINISH COUNTERTOP HEIGHT ABOVE THE FINISH FLOOR.
9. PROVIDE 27" MINIMUM CLEAR ABOVE THE FINISH TO THE BOTTOM OF:
   A. THE APRON AT ALL ACCESSIBLE SINK LOCATIONS.
   B. THE APRON AT ALL OTHER KNEE SPACES WHERE THERE IS NOT A SINK.
   C. ANY DRAWER KEY BOARD TRAY OR OTHER ITEM MOUNTED BELOW THE COUNTER TOP.
10. THE TOP OF THE FULL HEIGHT CABINETS SHALL BE 7'-2" AFF FLOOR UNLESS OTHERWISE NOTED.
11. THE TOP OF THE WALL CABINETS SHALL BE 7'-2" AFF FLOOR UNLESS OTHERWISE NOTED.

GENERAL NOTES FOR CASEWORK

G500. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THESE NOTES, CASEWORK LEGEND, THE FLOOR PLANS, THE INTERIOR ELEVATIONS, THE DETAILS, THE SPECIFICATIONS, THE INTERIOR DESIGN DRAWINGS, AND THE MECHANICAL/ELECTRICAL/PLUMBING DRAWINGS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN PROFESSIONAL OF ANY ERRORS, INCONSISTENCIES OR OMISSIONS THAT ARE DISCOVERED.

G501. THE SPECIFICATIONS CONTAIN DETAILED INFORMATION THAT THE CONTRACTOR MUST ADHERE TO. IT IS CRITICAL THAT THEY ARE CAREFULLY STUDIED AND COMPARED TO THE DRAWINGS.

G502. CASEWORK AND COUNTERTOP DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION. DO NOT SCALE THE DRAWINGS TO DETERMINE DIMENSIONS.

G503. THE TOTAL OVERALL WIDTH OF WALL CABINETS AND THE BASE CABINETS ON EACH ELEVATION SHALL BE THE SAME SO THAT THEY ARE ALIGNED, UNLESS OTHERWISE NOTED SPECIFICALLY.

G504. INDIVIDUAL WALL CABINET WIDTHS SHALL BE ALIGNED WITH INDIVIDUAL BASE CABINET WIDTHS, UNLESS OTHERWISE NOTED SPECIFICALLY.

G505. EXCEPT WHERE OTHERWISE INDICATED:
   A. WALL CABINETS SHALL BE 1'-2" DEEP.
   B. BASE CABINETS SHALL BE 2'-0" DEEP.
   C. BASE CABINETS SHALL BE 2'-6" DEEP AT 2'-7" DEEP COUNTERTOPS.
   D. COUNTERTOPS SHALL OVERHANG THE BASE CABINETS A MINIMUM OF 1".
   E. TOP OF COUNTERTOPS SHALL BE A MAXIMUM OF 2'-10" AFF. HOWEVER, PER THE APPLICABLE ACCESSIBILITY CODE: IF THERE IS A COUNTERTOP MOUNTED SINK WITH ITS RIM ABOVE THE COUNTERTOP LEVEL, THE CONTRACTOR SHALL MOUNT THE COUNTERTOP AT A LOWER MOUNTING HEIGHT (AND ADJUST THE HEIGHT OF THE ADJACENT BASE CABINETS, IF ANY) SO THAT THE RIM OF THE SINK IS A MAXIMUM OF 2'-10" AFF.
   F. PROVIDE 1'-3" HORIZONTAL CLEARANCE BETWEEN THE CENTERLINE OF EACH SINK/LAVATORY BOWL AND THE FACE OF THE ADJACENT VERTICAL FIXED ITEM.
   G. TOP OF WALL CABINETS SHALL BE 7'-2" AFF FLOOR UNLESS OTHERWISE NOTED.
   H. THE MAXIMUM WIDTH OF WALL CABINET DOORS SHALL BE 1'-6".
   I. THE MAXIMUM WIDTH OF FULL HEIGHT CABINET DOORS SHALL BE 1'-6".
   J. DRAWER BASE CABINETS SHALL BE A MINIMUM OF 15" WIDE AND A MAXIMUM OF 24" WIDE.
   K. ALL SHELVING OVER 30" WIDE SHALL BE 1" THICK; HOWEVER, IN ANY SPACE WHERE 1" THICK SHELVING IS USED, ALL SHELVING IN THAT SPACE SHALL BE 1" THICK.
   L. PROVIDE A MAXIMUM 3" OF FILLER PANEL IN THE OVERALL WIDTH OF CASEWORK ON EACH ELEVATION. WHERE TWO FILLER PANELS ARE REQUIRED, THEY SHOULD BE EQUAL DIMENSIONS.

G506. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE CLEAR DIMENSIONS REQUIRED FOR ALL OWNER FURNISHED EQUIPMENT [OFE] WHICH IS LOCATED WITHIN, OR ADJACENT TO, ANY PIECE OF COUNTERTOP OR CASEWORK. SEE THE FLOOR PLANS FOR LOCATIONS OF OFE.

G507. WHERE BACK-SPLASHES ARE INDICATED, PROVIDE SIDE-/ END-SPLASHES AT THE SAME HEIGHT AND THICKNESS, UNLESS OTHERWISE NOTED.

G508. THE CONTRACTOR, THE CASEWORK MANUFACTURER, THE SUPPLIER AND THE INSTALLER SHALL COORDINATE WITH ALL APPROPRIATE SUB-CONTRACTORS. FIRST PRIOR TO THE FABRICATION OF AND THEN AGAIN PRIOR TO THE INSTALLATION OF THE FOLLOWING ITEMS IN, ON AND ADJACENT TO COUNTERTOPS AND CASEWORK:
   A. SINKS/LAVATORIES WITH ASSOCIATED PIPING AND FITTINGS
   B. ELECTRICAL DEVICES
   C. COMMUNICATION DEVICES
   D. TOILET ACCESSORIES
   E. SECURITY DEVICES
   F. ITEMS FURNISHED BY THE CASEWORK SUPPLIER
   G. ITEMS FURNISHED BY THE OWNER
   H. TACK BOARDS
   J. SUPPLY AND WASTE PIPING FOR COUNTERTOP MOUNTED EQUIPMENT

G509. PROVIDE GROMMETS IN ALL COUNTERTOPS WHERE DEVICES, RECEPTACLES OR OUTLETS ARE LOCATED BELOW THE COUNTERTOP. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE NUMBER OF GROMMETS TO ALLOW FOR ONE GROMMET TO BE PLACED FOR EACH 3'-0" OF TOTAL WIDTH OF COUNTERTOP ABOVE KNEE SPACE (WITH A MINIMUM OF ONE GROMMET AT EACH KNEE SPACE).

G510. THE CONTRACTOR SHALL NOT CUT ANY OPENINGS OR INSTALL ANY GROMMETS, ETC., UNTIL THE OWNER INSTALLS THEIR COMPUTER EQUIPMENT, ETC., AND IDENTIFIES EXACTLY WHERE THEY WANT THE GROMMETS, ETC., TO BE PLACED.

G511. PROVIDE KEYED LOCKS ON ALL DOORS AND DRAWERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WRITTEN INSTRUCTIONS FROM THE OWNER IN REGARDS TO THE KEYING SYSTEM TO BE PROVIDED FOR ALL CASEWORK LOCKS THROUGHOUT THE PROJECT.

G512. AT COUNTERTOPS ABOVE KNEE SPACES AND AT SINK/LAVATORY COUNTERTOPS:
   A. COUNTERTOPS SHALL BE CAPABLE OF SUPPORTING THE MINIMUM LOAD REQUIRED BY THE APPLICABLE ACCESSIBILITY CODE.
   B. PROVIDE METAL COUNTER SUPPORT BRACKETS WHICH WILL COMPLY WITH THE APPLICABLE ACCESSIBILITY CODE KNEE CLEARANCE REQUIREMENTS, AND COMPLY WITH DETAILS AND THE SPECIFICATIONS.
   C. THE COUNTER SUPPORT BRACKETS SHALL NOT INTERFERE WITH KNEE CLEARANCE REQUIRED FOR THE APPLICABLE ACCESSIBILITY CODE "FRONT-APPROACH" AT SINKS/LAVATORIES. SEE DETAILS.
   D. THE COUNTER SUPPORT BRACKETS SHALL NOT INTERFERE WITH MOUNTING OF SINKS/LAVATORIES, UNDER-COUNTER EQUIPMENT, ETC.
   E. LOCATIONS OF THESE COUNTER SUPPORT BRACKETS SHALL BE PRE-APPROVED BY THE DESIGN PROFESSIONAL FOR AESTHETICS, AND SHALL COMPLY WITH THE DETAILS.

G513. ALL VISIBLE AND SEMI-VISIBLE WOOD SUPPORTS (WOOD BRACKETS, WOOD CLEATS, ETC. BELOW A COUNTERTOP SHALL BE FINISHED WITH PLASTIC LAMINATE TO MATCH THE COLOR OF THE BASE CABINETS OR THEY SHALL BE SANDED SMOOTH, SEALED AND PAINTED TO MATCH THE ADJACENT WALL COLOR. (VERIFY "SPACE SPECIFIC" REQUIREMENTS WITH THE DESIGN PROFESSIONAL.) ALL NON-VISIBLE WOOD, PLYWOOD & PARTICLE BOARD AT KNEE SPACES SHALL BE SANDED AND SEALED SO THAT THERE ARE NO ROUGH SPOTS THAT MIGHT CUT/ABRADE SKIN OR SNAG CLOTHING. COMPLY WITH SPECIFICATIONS.

G514. PROVIDE FOR COORDINATION BETWEEN THE WALL MOUNTED CASEWORK AND SOFFITS ABOVE THEM. SOFFIT LOCATIONS ARE INDICATED ON EITHER THE INTERIOR ELEVATIONS AND/OR THE REFLECTED CEILING PLANS. REFER TO SOFFIT DETAILS.

G515. CASEWORK, BASES AND COUNTERTOPS SHALL BE SEALED AT ALL JUNCTURES WITH EACH OTHER AND WITH ALL OTHER ADJOINING SURFACES/MATERIALS (INCLUDING WALLS, CASEWORK, COUNTERTOPS, BASES, ETC.) EVEN THOUGH JOINTS MAY NOT BE VISIBLE. ALL SEALANT IS REQUIRED TO BE COLOR-COORDINATED TO MATCH THE COLOR OF THE ADJACENT SURFACE. WHEN THE TWO ADJACENT SURFACES ARE DIFFERENT COLORS, THE CONTRACTOR SHALL SPECIFICALLY REQUEST THAT THE DESIGN PROFESSIONAL IDENTIFY WHICH SURFACE COLOR SHALL BE MATCHED.

G516. REFER TO THE SPECIFICATION FOR EDGE BANDING REQUIREMENTS.

G517. REFER TO THE SPECIFICATIONS FOR THE INTERIOR FINISH OF ALL CASEWORK.

G518. SEE INTERIOR DESIGN GENERAL NOTES AND INTERIOR DESIGN FINISH LEGEND FOR FINISH MATERIALS AND ADDITIONAL REQUIREMENTS.

G519. PROVIDE SCHEDULED FINISH BASE ALONG BOTTOM OF EXPOSED FRONTS, BACKS, SIDES AND ENDS OF ALL FIXED CASEWORK, SEE INTERIOR DESIGN DRAWINGS FOR TYPE AND HEIGHT OF FINISH BASE TO BE PROVIDED IN EACH SPACE.

G520. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FURNISHED EQUIPMENT [OFE] TO VERIFY THAT UNDER-COUNTER OFE WILL FIT UNDER THE 2'-10" AFF MAXIMUM ALLOWED HEIGHT FOR COUNTERTOPS. THE CONTRACTOR SHALL ALSO VERIFY THE WIDTHS OF UNDER-COUNTER OFE TO AVOID LARGE GAPS IN THE BASE CABINETS ON EACH SIDE OF THE OFE.

G521. THE CONTRACTOR SHALL CONTACT THE DESIGN PROFESSIONAL REGARDING WHICH ATTACHMENT METHOD, DOUBLE SIDED TAPE OR SCREWS, SHALL BE USED FOR ANY ITEM SHOWN TO BE INSTALLED ON CASEWORK.

G522. ALL CASEWORK SHALL BE FASTENED TO THE VERTICAL PARTITIONS, TO EACH OTHER AND TO THE FLOORS AS REQUIRED BY THE SPECIFICATIONS AND THE DETAILS IN THE DRAWINGS. THE CONTRACTOR SHALL ALSO PROVIDE WOOD BLOCKING AND METAL REINFORCEMENT IN THE VERTICAL PARTITIONS PER THE MOST STRINGENT REQUIREMENTS OF THE SPECIFICATIONS, THE MANUFACTURER'S REQUIREMENTS AND THE DETAILS IN THE DRAWINGS.

G523. ALL SHELVING TO BE ADJUSTABLE, UNLESS OTHERWISE NOTED.

G524. ALL DRAWERS SHALL HAVE FULL-EXTENSION SLIDES.

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THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA

1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

CASEWORK LEGEND

A500

PROJECT: 45990.00
DATE:

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
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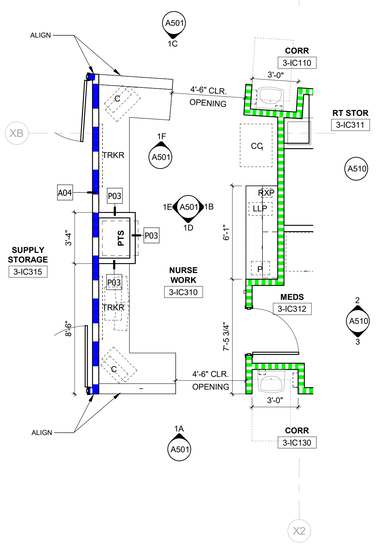

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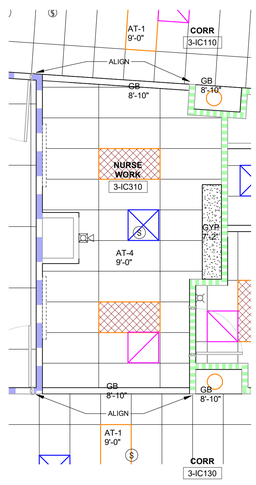
1/4" = 1'-0" 0' 8' 16' 32' 48'



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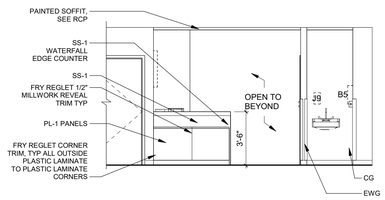

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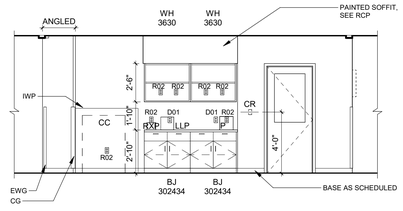

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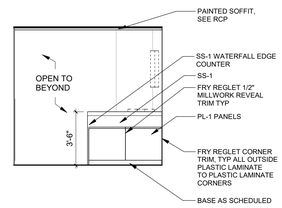

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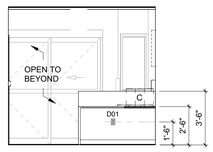

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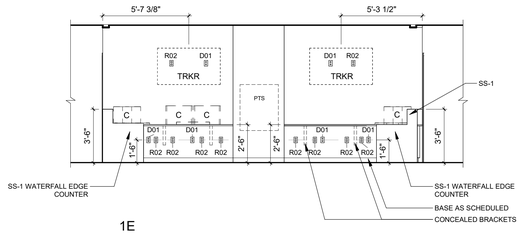

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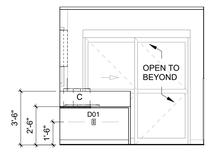

1F

2 3 - NURSE WORK - SOUTH
NOT TO SCALE

3 3 - NURSE WORK - NORTH
NOT TO SCALE

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THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

ENLARGED PLANS AND INTERIOR ELEVATIONS

A501

PROJECT: 45990.00
DATE:

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
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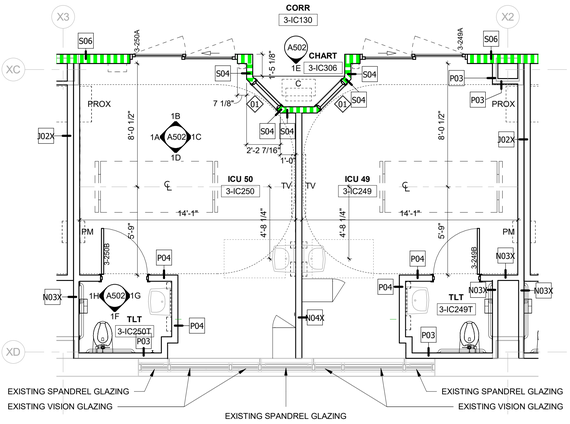
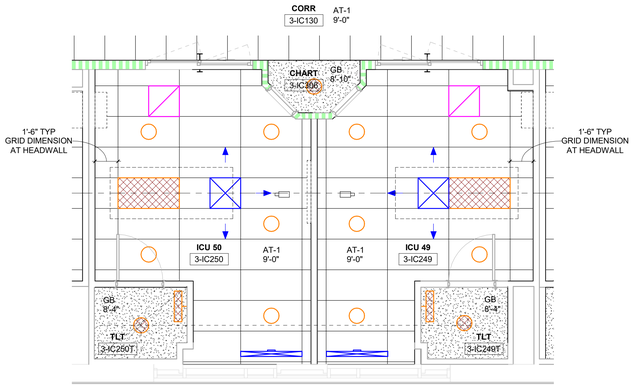


1 ENLARGED PLAN AT ICU
1/4" = 1'-0"



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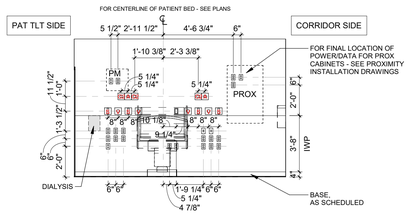

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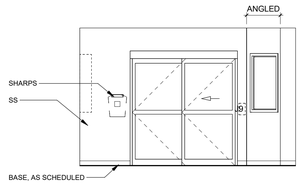

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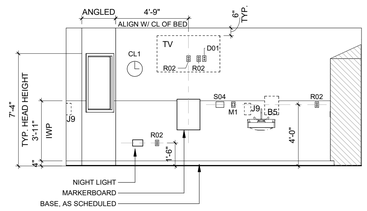

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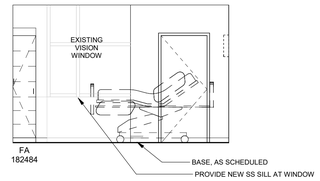

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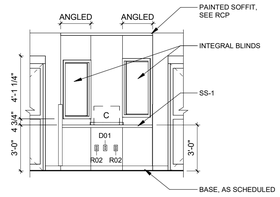

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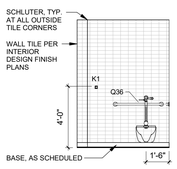

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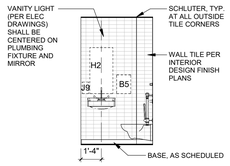

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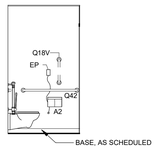

1H

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HCA Project No.: 2740000034

Revision		
No.	Date	Description

ENLARGED PLANS AND INTERIOR ELEVATIONS

A502

PROJECT: 45990.00
DATE:

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
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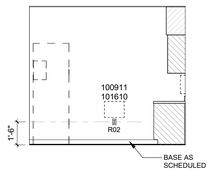

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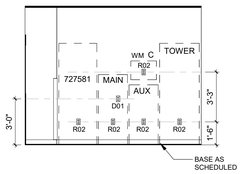
1/4" = 1'-0"



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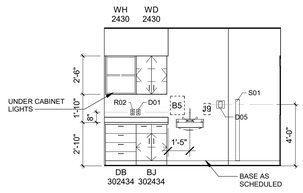

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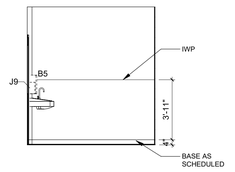

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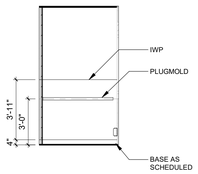

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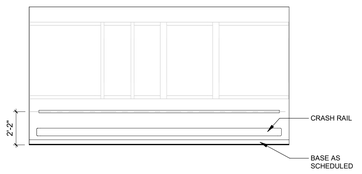

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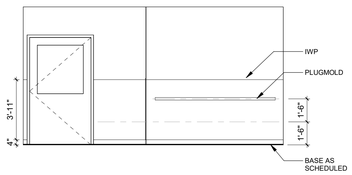

8 EQUIP. STOR
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INTERIOR ELEVATIONS

A510

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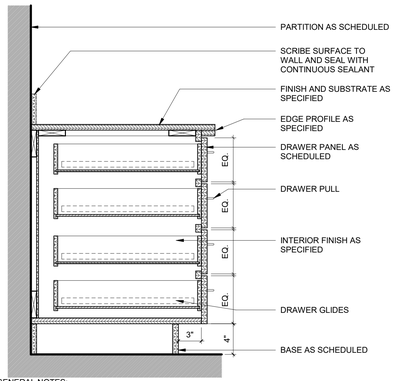
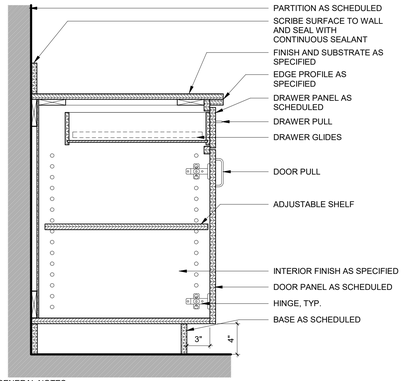


GENERAL NOTES:
1. SEE GENERAL NOTES FOR CASEWORK REGARDING OVERALL REQUIREMENTS AND DEPTHS, UNLESS OTHERWISE NOTED ON FLOOR PLAN.
2. SEE INTERIOR ELEVATIONS FOR:
   - CABINET AND COUNTER TOP HEIGHTS.
   - LOCATIONS AND HEIGHTS OF BACKSPLASHES.
   - ALL EXPOSED FINISHES.
   - QUANTITIES OF SHELVES, DRAWERS AND/OR DOORS.
3. SEE SPECIFICATIONS FOR:
   - CABINET HARDWARE, IF NOT INDICATED ON INTERIOR ELEVATIONS.
   - INTERIOR FINISHES.
   - IN WALL REINFORCEMENT REQUIREMENTS.
4. SEAL ALL PENETRATIONS BELOW AND ADJACENT TO THE CASEWORK TO MAINTAIN THE INTEGRITY OF THE ADJACENT WALL AND FLOOR ASSEMBLIES.

1 BASE CABINET 4 EQUAL DRAWERS DB
NOT TO SCALE



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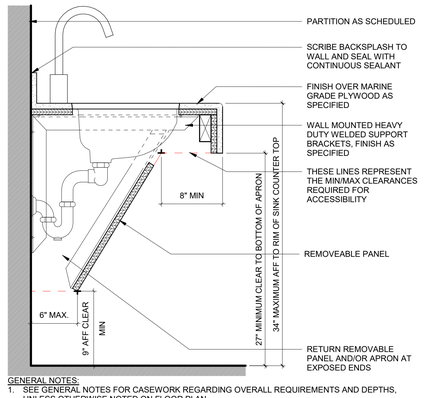
2 BASE CABINET WITH DRAWER BG, BJ
NOT TO SCALE



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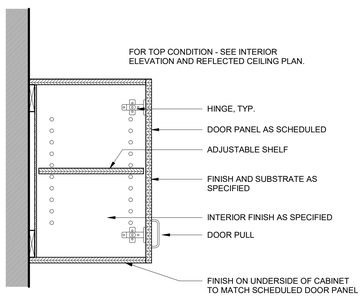
3. SEE SPECIFICATIONS FOR:
   - CABINET HARDWARE, IF NOT INDICATED ON INTERIOR ELEVATIONS.
   - IN WALL REINFORCEMENT REQUIREMENTS.
4. SEAL ALL PENETRATIONS BELOW AND ADJACENT TO THE CASEWORK TO MAINTAIN THE INTEGRITY OF THE ADJACENT WALL ASSEMBLIES.
5. REFER TO PLUMBING DRAWINGS FOR SINK, FAUCET, DRAIN, AND PIPING REQUIREMENTS.

3 ACCESSIBLE SINK WITH APRON AND SLOPED PANEL AK
NOT TO SCALE



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3. SEE SPECIFICATIONS FOR:
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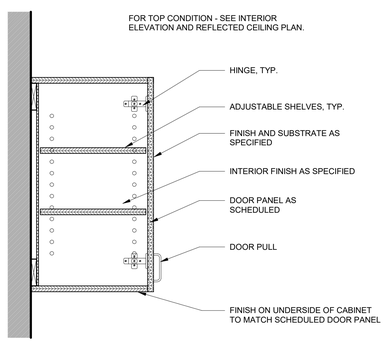
   - INTERIOR FINISHES.
   - IN WALL REINFORCEMENT REQUIREMENTS.
4. SEAL ALL PENETRATIONS BEHIND THE CABINETS TO MAINTAIN THE INTEGRITY OF THE ADJACENT WALL ASSEMBLIES.

4 WALL CABINET WB
NOT TO SCALE



GENERAL NOTES:
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2. SEE INTERIOR ELEVATIONS FOR:
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   - ALL EXPOSED FINISHES.
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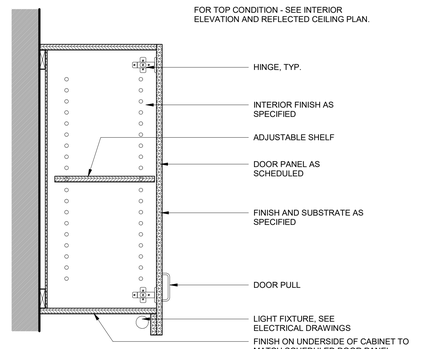
3. SEE SPECIFICATIONS FOR:
   - CABINET HARDWARE, IF NOT INDICATED ON INTERIOR ELEVATIONS.
   - INTERIOR FINISHES.
   - IN WALL REINFORCEMENT REQUIREMENTS.
4. SEAL ALL PENETRATIONS BEHIND THE CABINETS TO MAINTAIN THE INTEGRITY OF THE ADJACENT WALL ASSEMBLIES.

5 WALL CABINET WC, WD
NOT TO SCALE



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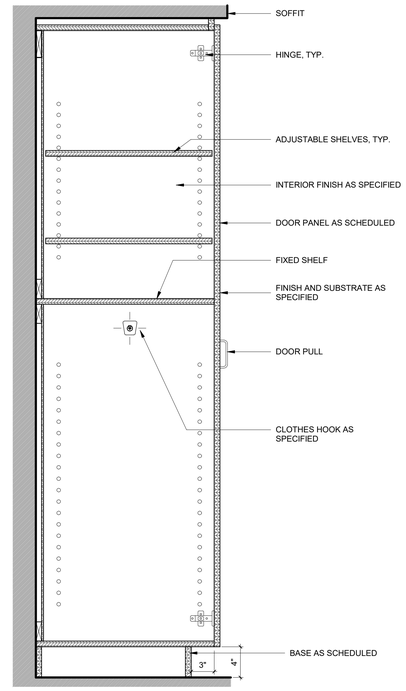
   - IN WALL REINFORCEMENT REQUIREMENTS.
4. SEAL ALL PENETRATIONS BEHIND THE CABINETS TO MAINTAIN THE INTEGRITY OF THE ADJACENT WALL ASSEMBLIES.
5. SEE ELECTRICAL DRAWINGS FOR LIGHTING REQUIREMENTS.

6 WALL CABINET WITH TASK LIGHT WA, WB, WM, WN
NOT TO SCALE



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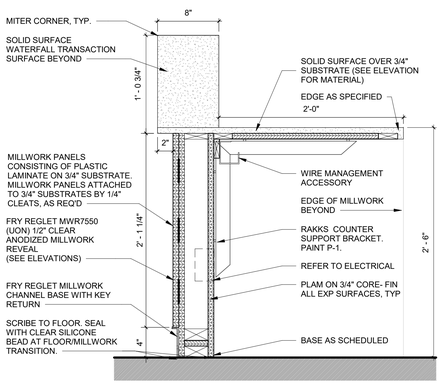
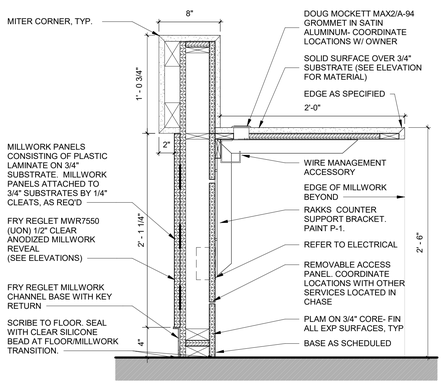
7 PATIENT WARDROBE FL
NOT TO SCALE



8 RECEPTION DESK - ADA COUNTER
NOT TO SCALE



9 RECEPTION DESK - TRANSACTION TOP
NOT TO SCALE

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Jun 29, 2023*
2021 INTERNATIONAL CODES & 2020 NEC

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GreshamSmith.com

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PA: Anna Barnes
Sr. ID: Kristen Vaughn
ID: Leanna Taylor
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Greenwood Village, CO 80111

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Mech: Ryan Vanderwel
Plumb/Fire P: Chris Longstreet
Elec.: Michael Carson
Telecomm:
M/P EOR: Benjamin Weerts
Elec. EOR: Jimmey Youssef

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HCA Design & Construction
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Bldg. II, East 3rd Floor
Nashville, TN 37203
HCA Design Mgr.: Zach Wideman
HCA Constr. Mgr.: Marc Brisebois

General Contractors
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6640 Carothers Parkway, Suite 150
Franklin, TN 37067

STATE OF COLORADO
GREGORY A. GORE
ARC-400615
LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

CASEWORK AND CABINET DETAILS

A530

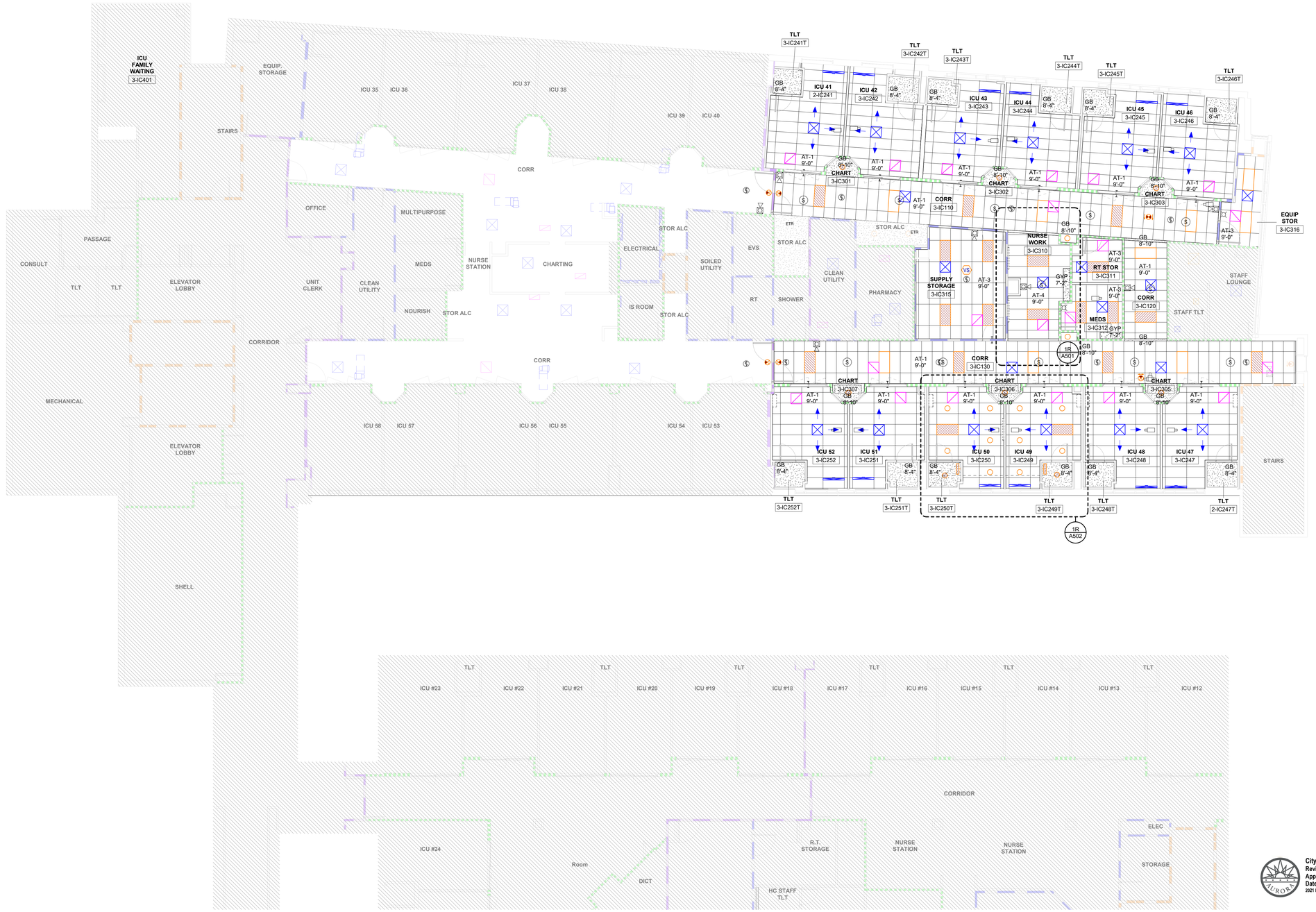
PROJECT: 45990.00
DATE:

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

2/17/2023 5:31:21 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/459900_ArchCentralR22.rvt

APPROVED
RSN:1707621 | PERMIT# 23-2315197-LT

Drawn By: Author
Checked By: Checker
Approved By: Approver



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REFLECTED CEILING PLAN LEGEND

- TYPE A - 1 HOUR FIRE BARRIERS
- TYPE B - 1 HOUR SMOKE BARRIERS
- TYPE C - 2 HOUR FIRE BARRIERS
- TYPE D - 2 HOUR SMOKE BARRIERS
- TYPE E - 3 HOUR FIRE BARRIERS
- TYPE F - 3 HOUR SMOKE BARRIERS
- TYPE G - 4 HOUR FIRE BARRIERS
- TYPE H - 4 HOUR SMOKE BARRIERS
- TYPE N - NON-RATED PARTITION
- TYPE S - SMOKE RESISTANT PARTITION TO REMAIN

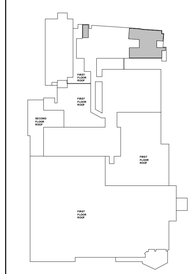
- GXXX — SEE "GENERAL NOTES"
- 601 — SEE "REFLECTED CEILING PLAN KEYNOTES"
- AP-1, 8' - 0" — ACOUSTICAL CEILING TILE DESIGNATION (TOP LINE INDICATES SYSTEM; BOTTOM LINE INDICATES FINISH CEILING HEIGHT)
- GB, 8' - 6" — GYPSUM BOARD CEILING DESIGNATION (SEE INTERIOR DESIGN LISTING FOR FINISH; BOTTOM LINE INDICATES FINISH CEILING HEIGHT)
- SINGLE FACE EXIT LIGHTS (ARROWS INDICATE DIRECTION OF EGRESS)
- DOUBLE FACE EXIT LIGHTS (ARROWS INDICATE DIRECTION OF EGRESS)
- 2' x 2' LIGHT FIXTURE (SEE ELECTRICAL)
- 2' x 4' LIGHT FIXTURE (SEE ELECTRICAL)

- STRIP LIGHT FIXTURE (SEE ELECTRICAL)
- LIGHT FIXTURE (SEE ELECTRICAL)
- TRACK LIGHT (SEE ELECTRICAL)
- WALL SCONCES (SEE ELECTRICAL)
- WALL WASHERS (SEE ELECTRICAL)
- RETURN OR EXHAUST AIR GRILLE (SEE MECHANICAL)
- SUPPLY AIR GRILLE (SEE MECHANICAL)
- ACCESS PANEL

- DIRECT/INDIRECT PENDANT
- 4' - 0" LINEAR DIFFUSER (SEE MECHANICAL)
- S — SPEAKER (SEE COMMUNICATION)
- D — NURSE CALL DOME LIGHT (SEE COMMUNICATION)
- Z — NURSE ZONE DOME LIGHT (SEE COMMUNICATION)
- D — SMOKE DETECTOR (SEE FIRE PROTECTION)
- E — VOICE EVACUATION SPEAKER (SEE FIRE PROTECTION)
- AUTOMATIC SPRINKLER HEAD - CONCEALED TYPE (SHOWN FOR AESTHETIC PURPOSES ONLY. SEE REFLECTED CEILING PLAN GENERAL NOTES)
- AUTOMATIC SPRINKLER HEAD - SEMI-RECESSED TYPE (SHOWN FOR AESTHETIC PURPOSES ONLY. SEE REFLECTED CEILING PLAN GENERAL NOTES)

ETR — EXISTING TO REMAIN

KEY PLAN



TRUE NORTH
PLAN NORTH

Gresham Smith
GreshamSmith.com

ARCHITECT, INTERIOR DESIGN, GRAPHICS
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222 2nd Avenue South, Suite 1400
Nashville, TN 37201-2308

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PM: Rob Hamby
PA: Anna Barnes
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ID: Leanna Taylor
XD: Mike Summers

AOR: Gregory Gore

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Greenwood Village, CO 80111

MEPT PM: Benjamin Weerts
Mech:
Plumb/Fire P: Ryan Vanderwel
Elec.: Chris Longstreet
Telecomm: Michael Carson

M/P EOR: Benjamin Weerts
Elec. EOR: Jimmey Yousseef

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HCA Design & Construction
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Bldg. II, East 3rd Floor
Nashville, TN 37203
HCA Design Mgr.: Zach Wideman
HCA Constr. Mgr.: Marc Brisebois

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STATE OF COLORADO
GREGORY A. GORE
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LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

THIRD FLOOR REFLECTED CEILING PLAN

A601

PROJECT: 45990.00
DATE:

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

2/17/2023 5:31:25 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/45990_ArchCentralR22.rvt

APPROVED
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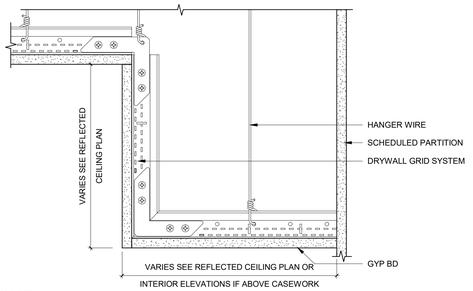
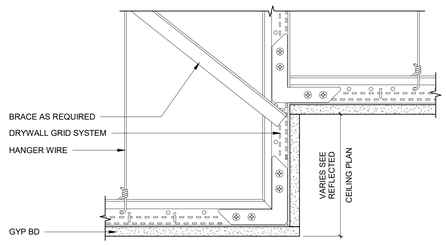


GENERAL NOTES:
1. ALL SUPPORT FRAMING MUST BE INDEPENDENTLY ATTACHED TO THE STRUCTURE ABOVE.
2. SEE REFLECTED CEILING PLAN FOR CEILING AND/OR SOFFIT HEIGHTS, SOFFIT AND/OR BULKHEAD WIDTHS.
3. SEE INTERIOR DESIGN DRAWINGS AND/OR SPECIFICATIONS FOR MATERIALS, COLORS AND/OR SCHEDULED CEILINGS.

1 GYP BD SOFFIT
NOT TO SCALE



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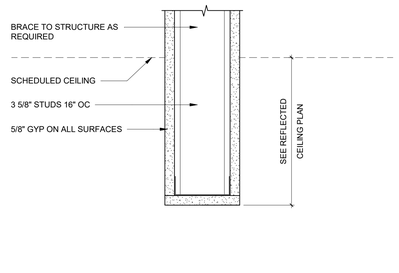
2 GYP BD TO GYP BD HEIGHT TRANSITION
NOT TO SCALE



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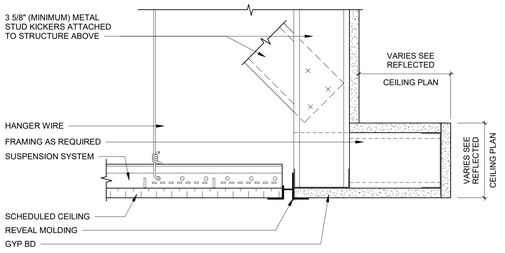
3 STANDARD GYP BD BULKHEAD
NOT TO SCALE



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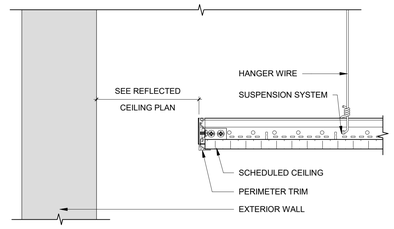
4 GYP BD EYEBROW AT ACOUSTICAL PANEL
NOT TO SCALE



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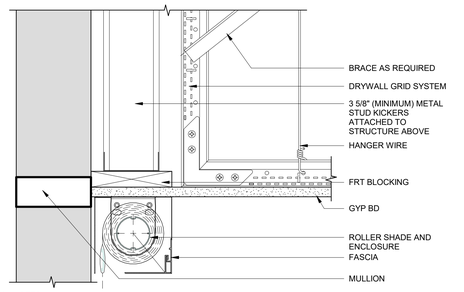
3. SEE INTERIOR DESIGN DRAWINGS AND/OR SPECIFICATIONS FOR MATERIALS, COLORS AND/OR SCHEDULED CEILINGS AND PERIMETER TRIM HEIGHT.

5 ACOUSTICAL PANEL AT EXTERIOR WALL
NOT TO SCALE



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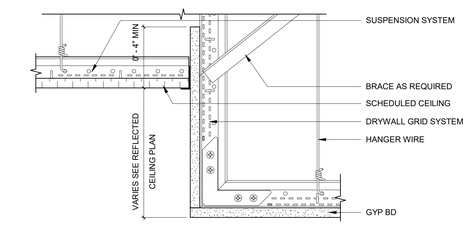
3. SEE INTERIOR DESIGN DRAWINGS AND/OR SPECIFICATIONS FOR MATERIALS, COLORS AND/OR SCHEDULED CEILINGS.
4. REFER TO SPECIFICATIONS FOR ROLLER SHADE, HOUSING AND/OR ELECTRICAL REQUIREMENTS.

6 ROLLER SHADE AT EXTERIOR WALL WITH FASCIA
NOT TO SCALE



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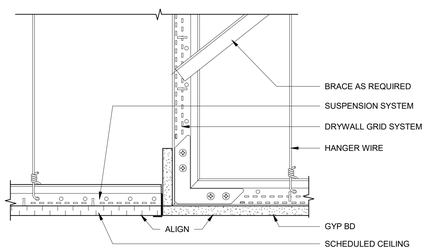
7 ACOUSTICAL PANEL TO GYP BD
NOT TO SCALE



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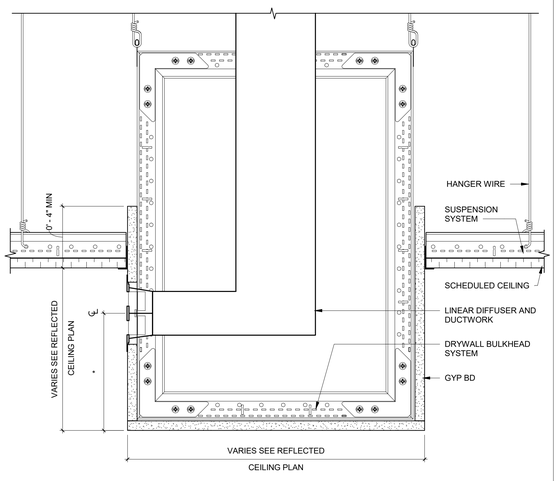
8 ACOUSTICAL PANEL TO GYP BD SAME HEIGHT
NOT TO SCALE



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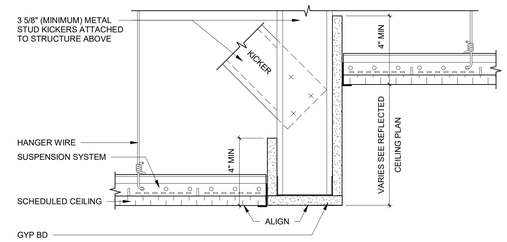
3. SEE INTERIOR DESIGN DRAWINGS AND/OR SPECIFICATIONS FOR MATERIALS, COLORS AND/OR SCHEDULED CEILINGS.
4. REFER TO THE MECHANICAL DRAWINGS FOR DUCTWORK, DIFFUSERS OR RETURN AIR DEVICES.

11 GYP BD BULKHEAD
NOT TO SCALE



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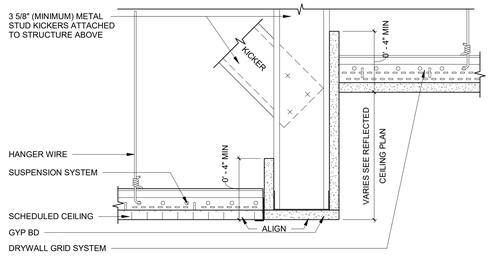
9 GYP BD BULKHEAD WITH ACOUSTICAL PANEL ON BOTH SIDES
NOT TO SCALE



GENERAL NOTES:
1. ALL SUPPORT FRAMING MUST BE INDEPENDENTLY ATTACHED TO THE STRUCTURE ABOVE.
2. SEE REFLECTED CEILING PLAN FOR CEILING AND/OR SOFFIT HEIGHTS, SOFFIT AND/OR BULKHEAD WIDTHS.
3. SEE INTERIOR DESIGN DRAWINGS AND/OR SPECIFICATIONS FOR MATERIALS, COLORS AND/OR SCHEDULED CEILINGS.

10 GYP BD BULKHEAD WITH ACOUSTICAL PANEL ON ONE SIDE
NOT TO SCALE

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Y. Munoz
Date: Jun 29, 2023
2021 INTERNATIONAL CODES & 2020 NEC

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STATE OF COLORADO
GREGORY A. GORE
ARC-400615
LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

MISCELLANEOUS CEILING DETAILS

A630

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

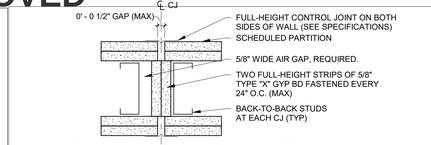
PROJECT: 45990.00
DATE:

2/17/2023 5:31:29 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/45990_ArchCentralR22.rvt

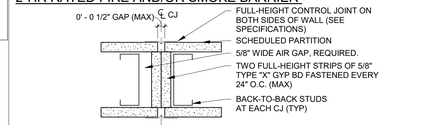
APPROVED

RSN:1707621 | PERMIT# 23-2315197-LT

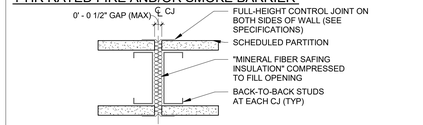
Drawn By: Author
Checked By: Checker
Approved By: Approver



2-HR RATED FIRE AND/OR SMOKE BARRIER



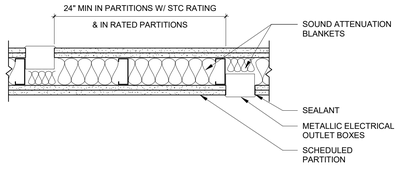
1-HR RATED FIRE AND/OR SMOKE BARRIER



NON-RATED PARTITION

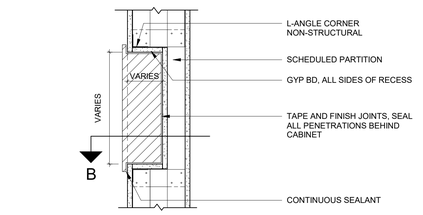
GENERAL NOTES:
1. CONTROL JOINTS SHALL COMPLY WITH THE MOST STRINGENT REQUIREMENTS OF THE APPLICABLE BUILDING CODE; THE MOST CURRENT EDITION OF: GYPSUM ASSOCIATION GA-600 FIRE RESISTANCE DESIGN MANUAL; U.L. FIRE RESISTANCE DIRECTORY; AND THE SPECIFICATIONS.
2. FOR CONTROL JOINTS IN RATED SHAFTWALL SYSTEMS, COMPLY WITH NOTE 1. THE REQUIREMENTS OF GYPSUM ASSOCIATION GA-234 CONTROL JOINTS FOR FIRE-RESISTANCE RATED SYSTEMS, AND THE SPECS.
3. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS INCLUDING MAXIMUM ALLOWED SPACING OF CONTROL JOINTS.
4. IF WALL COVERING IS SCHEDULED FOR A WALL WITH A CONTROL JOINT, THE WALL COVERING SHALL BE NEATLY AND EVENLY RECESSED INTO (AND FOLLOW THE CONTOURS OF) THE METAL CONTROL JOINT. COORDINATE WITH INTERIOR DESIGN DRAWINGS.

1 CONTROL JOINTS IN PARTITIONS
NOT TO SCALE

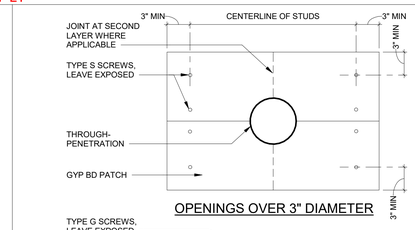


GENERAL NOTES:
1. IN ALL PARTITIONS:
   A. THIS DETAIL APPLIES TO ALL METALLIC ELECTRICAL OUTLET BOXES (REGARDLESS OF TRADE OR USE) WHEN THEY ARE RECESSED INTO A RATED OR NON-RATED PARTITION.
   B. THE GAP BETWEEN THE BOX AND ALL GYPSUM BOARD SURFACES SHALL NOT EXCEED 1/8". THIS GAP SHALL BE SEALED AIR-TIGHT FOR THE FULL-DEPTH OF ALL LAYERS WITH FLEXIBLE SEALANT.
2. IN ALL RATED PARTITIONS:
   A. COMPLY WITH ALL REQUIREMENTS OF THE APPLICABLE BUILDING CODES; CURRENT EDITION OF U.L. FIRE RESISTANCE DIRECTORY, VOLUME I, DESIGN INFORMATION SECTION, UNDER "VI. WALL AND PARTITION ASSEMBLIES", UNDER "9. METALLIC ELECTRICAL OUTLET BOXES"; AND GYPSUM ASSOCIATION GA-600 FIRE RESISTANCE DESIGN MANUAL, UNDER "GENERAL EXPLANATORY NOTES".
   B. BOXES CANNOT BE RECESSED INTO ANY PARTITION WITH A RATING GREATER THAN 2 HOURS.
   C. THE CONTRACTOR MAY PROVIDE PUTTY PADS AS NOTED IN THE SPECIFICATIONS AND IF ACCEPTED BY THE DESIGN CONSULTANT.
3. FOR PARTITIONS WITH A REQUIREMENTS FOR AN STC RATING:
   A. COMPLY WITH NOTES 1 & 2, ABOVE.
   B. REFER TO THE "WALLS/PARTITIONS/BARRIERS LEGEND" FOR MORE INFORMATION.
   C. APPLY ACOUSTICAL JOINT SEALANT CONTINUOUSLY AROUND ALL PENETRATIONS.
4. FOR NON-RATED EXTERIOR WALLS:
   A. PROVIDE FLEXIBLE ACOUSTICAL SEALANT. COMPLY WITH NOTE 1 ABOVE. MAINTAIN AIR-TIGHT EXTERIOR WALLS AT ALL TIMES.

2 METALLIC ELECTRICAL OUTLET BOXES IN PARTITIONS
NOT TO SCALE

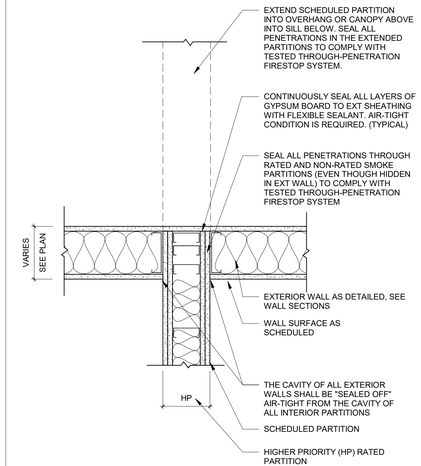


3 RECESSED WALL CABINET DETAIL
NOT TO SCALE

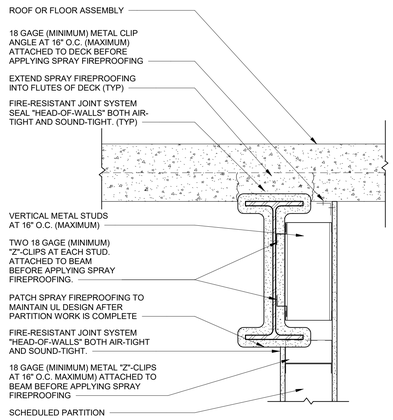


GENERAL NOTES:
1. PER THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE, PROVIDE APPROVED, TESTED "THROUGH-PENETRATION FIRESTOP SYSTEM" COMPATIBLE WITH THE REQUIREMENTS OF THE SCHEDULED WALL/PARTITION/BARRIER AND THE SPECIFICATIONS.
2. WHEN A SECOND LAYER OF GYP. BD. IS REQUIRED TO MAINTAIN THE PARTITION RATING, ROTATE THE SEAMS AS INDICATED BY THE DASHED LINES.
3. THE BACK SIDE OF THE FIRST LAYER IS TO BE BUTTERED WITH JOINT COMPOUND AND THE EXCESS SHOULD BE VISIBLE AROUND ALL FOUR SIDES OF THE GYP. BD. PATCH AND NOT REMOVED OR ALTERED.

4 PATCHING PENETRATIONS IN EXISTING RATED PARTITIONS
NOT TO SCALE

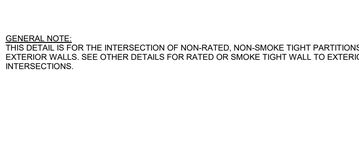


5 INTERIOR TO EXTERIOR STUD WALL INTERSECTION
NOT TO SCALE



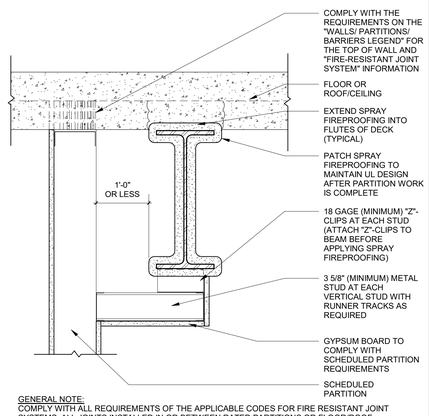
GENERAL NOTES:
1. COMPLY WITH ALL REQUIREMENTS OF THE APPLICABLE CODES FOR FIRE RESISTANT JOINT SYSTEMS. ALL JOINTS INSTALLED IN OR BETWEEN RATED PARTITIONS OR FLOOR/ROOF ASSEMBLIES SHALL BE PROTECTED BY AN APPROVED "FIRE-RESISTANT JOINT SYSTEM" DESIGNED TO RESIST THE PASSAGE OF FIRE FOR A TIME PERIOD NOT LESS THAN THE REQUIRED RATING OF THE PARTITIONS, FLOOR OR ROOF IN OR BETWEEN WHICH IT IS INSTALLED. FIRE-RESISTANT JOINT SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF EITHER ASTM E 1966 OR UL 2079.
2. THE Z CLIPS AND STUDS SHOWN ATTACHED TO THE BEAM WEB MAY BE DELETED IF THE BEAM IS LESS THAN 16" TALL.

6 INTERIOR FULL-HEIGHT OFFSET PARTITION UNDER BEAM
NOT TO SCALE



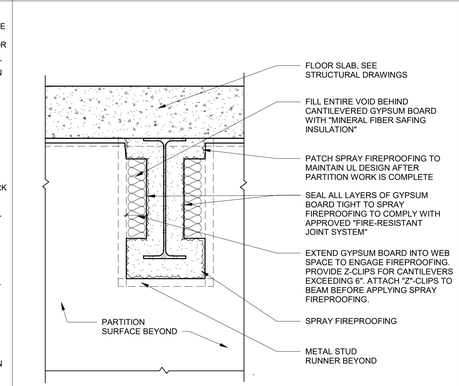
GENERAL NOTE:
THIS DETAIL IS FOR THE INTERSECTION OF NON-RATED, NON-SMOKE TIGHT PARTITIONS AND EXTERIOR WALLS. SEE OTHER DETAILS FOR RATED OR SMOKE TIGHT WALL TO EXTERIOR WALL INTERSECTIONS.

7 INTERIOR TO EXTERIOR WALL INTERSECTION
NOT TO SCALE



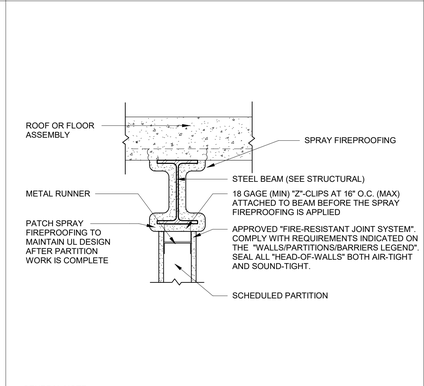
GENERAL NOTE:
COMPLY WITH ALL REQUIREMENTS OF THE APPLICABLE CODES FOR FIRE RESISTANT JOINT SYSTEMS. ALL JOINTS INSTALLED IN OR BETWEEN RATED PARTITIONS OR FLOOR/ROOF ASSEMBLIES SHALL BE PROTECTED BY AN APPROVED "FIRE-RESISTANT JOINT SYSTEM" DESIGNED TO RESIST THE PASSAGE OF FIRE FOR A TIME PERIOD NOT LESS THAN THE REQUIRED RATING OF THE PARTITION, FLOOR OR ROOF IN OR BETWEEN WHICH IT IS INSTALLED. FIRE-RESISTANT JOINT SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF EITHER ASTM E 1966 OR UL 2079.

8 INTERIOR FULL HEIGHT PARTITION WITHIN 1'-0" OF FIREPROOFING AT BEAM
NOT TO SCALE



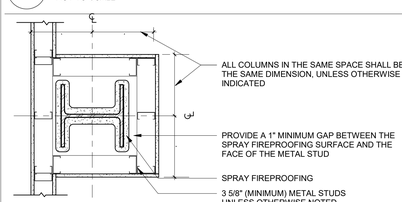
GENERAL NOTE:
COMPLY WITH ALL REQUIREMENTS OF THE APPLICABLE CODES FOR FIRE RESISTANT JOINT SYSTEMS. ALL JOINTS INSTALLED IN OR BETWEEN RATED PARTITIONS OR FLOOR/ROOF ASSEMBLIES SHALL BE PROTECTED BY AN APPROVED "FIRE-RESISTANT JOINT SYSTEM" DESIGNED TO RESIST THE PASSAGE OF FIRE FOR A TIME PERIOD NOT LESS THAN THE REQUIRED RATING OF THE PARTITION, FLOOR OR ROOF IN OR BETWEEN WHICH IT IS INSTALLED. FIRE-RESISTANT JOINT SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF EITHER ASTM E 1966 OR UL 2079.

9 INTERIOR PARTITION PERPENDICULAR TO DECK AND BEAM
NOT TO SCALE



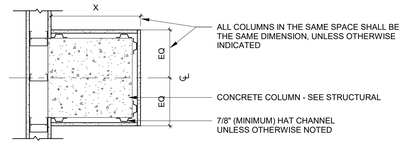
GENERAL NOTE:
COMPLY WITH ALL REQUIREMENTS OF THE APPLICABLE CODES FOR FIRE RESISTANT JOINT SYSTEMS. ALL JOINTS INSTALLED IN OR BETWEEN RATED PARTITIONS OR FLOOR/ROOF ASSEMBLIES SHALL BE PROTECTED BY AN APPROVED "FIRE-RESISTANT JOINT SYSTEM" DESIGNED TO RESIST THE PASSAGE OF FIRE FOR A TIME PERIOD NOT LESS THAN THE REQUIRED RATING OF PARTITIONS, FLOOR OR ROOF IN OR BETWEEN WHICH IT IS INSTALLED. FIRE-RESISTANT JOINT SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF EITHER ASTM E 1966 OR UL 2079. COMPLY WITH REQUIREMENTS OF THE SPECIFICATIONS.

10 INTERIOR FULL HEIGHT PARTITION UNDER BEAM
NOT TO SCALE



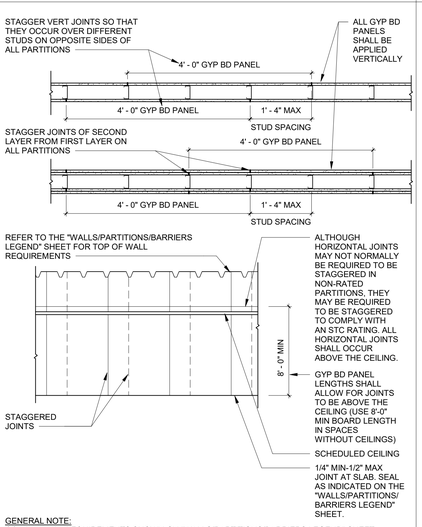
GENERAL NOTES:
1. METAL STUDS AT WALLS AROUND COLUMN SHALL BE STRUCTURALLY INDEPENDENT OF COLUMN.
2. IF COLUMN IS LESS THAN 16" WIDE, CLIP ANGLES MAY BE USED AND SOME STUDS MAY BE UNNECESSARY. VERIFY WITH DESIGN PROFESSIONAL.

11A COLUMN FURR-OUT AT PARTITION INTERSECTION
NOT TO SCALE



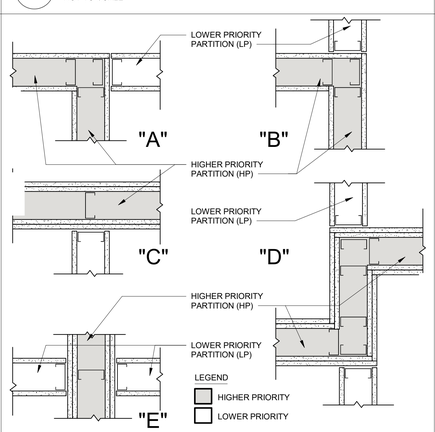
GENERAL NOTES:
1. METAL STUDS AT WALLS AROUND COLUMN SHALL BE STRUCTURALLY INDEPENDENT OF COLUMN.
2. SEE MECHANICAL, ELECTRICAL AND/OR TELECOMMUNICATIONS DRAWINGS FOR DEVICES THAT MAY REQUIRE A LARGER STUD THAN WHAT IS SHOWN.

11B CONCRETE COLUMN FURR-OUT AT PARTITION INTERSECTION
NOT TO SCALE



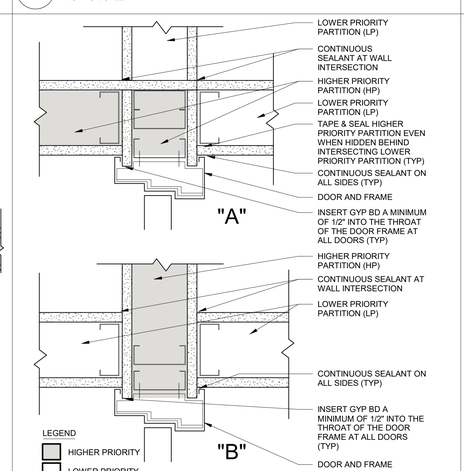
GENERAL NOTE:
COMPLY WITH REQUIREMENTS SHOWN ON "WALLS/PARTITIONS/BARRIERS LEGEND" SHEET

12 LOCATION OF JOINTS IN PARTITIONS
NOT TO SCALE



GENERAL NOTES:
1. REFER TO "WALLS/PARTITIONS/BARRIERS LEGEND" FOR MORE INFORMATION
2. THE HIGHER PRIORITY PARTITION SHALL ALWAYS PASS CONTINUOUSLY THROUGH THE LOWER PRIORITY PARTITION.
3. TAPE AND SEAL ALL JOINTS IN GYP BD IN HIGHER PRIORITY PARTITIONS EVEN WHEN JOINT IS HIDDEN BEHIND INTERSECTING OR ABUTTING LOWER PRIORITY PARTITIONS.
4. ALTERNATE LAYERS OF GYP BD SHALL OVERLAP AT CORNER INTERSECTIONS OF MULTI-LAYERED RATED GYP BD PARTITIONS.
5. THESE DETAILS APPLY TO BOTH "FIRE RATING PRIORITY" AND TO "SOUND TRANSMISSION CLASS [STC] PRIORITY".

13 INTERSECTION OF DIFFERING PRIORITY PARTITIONS
NOT TO SCALE



GENERAL NOTES:
1. REFER TO DETAILS "INTERSECTION OF DIFFERING PRIORITY PARTITIONS" AND "PRIORITY LEGEND FOR ABUTMENT OF DIFFERING PARTITIONS" FOR FURTHER REQUIREMENTS.
2. REFER TO FLOOR PLANS AND TO "WALLS/PARTITIONS/BARRIERS LEGEND" FOR SCHEDULED PARTITION INFORMATION

14 DOOR AT ABUTMENT OF DIFFERING PRIORITY PARTITIONS
NOT TO SCALE

PRIORITY LEGEND FOR PARTITIONS AND BARRIERS

PARTITION DESIGNATION	HIGHEST TO LOWEST PRIORITY
THREE OR FOUR-HOUR RATED FIRE WALL	PRIORITY 1
TWO-HOUR RATED SMOKE BARRIER	PRIORITY 2
TWO-HOUR RATED (SHAFTWALL) FIRE BARRIER	PRIORITY 3
TWO-HOUR RATED FIRE BARRIER	PRIORITY 4
TWO-HOUR RATED (SHAFTWALL) PARTITION	PRIORITY 5
TWO-HOUR RATED FIRE PARTITION	PRIORITY 6
ONE-HOUR RATED SMOKE BARRIER	PRIORITY 7
ONE-HOUR RATED FIRE BARRIER	PRIORITY 8
ONE-HOUR RATED FIRE PARTITION	PRIORITY 9
ONE-HOUR SMOKE BARRIER	PRIORITY 10
SMOKE RESISTANT PARTITION AT CORRIDOR	PRIORITY 11
NON-RATED PARTITION TO UNDERSIDE OF DECK ABOVE	PRIORITY 12
NON-RATED PARTITION TO 4" MINIMUM ABOVE CEILING	PRIORITY 13
NON-RATED ONE-SIDED PARTITION/FURRING TO DECK ABOVE	PRIORITY 14
NON-RATED ONE-SIDED PARTITION/FURRING TO 4" MINIMUM ABOVE CEILING	PRIORITY 15

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Y. Munoz
Date: Jun 29, 2023
2021 INTERNATIONAL CODES & 2020 NEC

15 PRIORITY LEGEND FOR PARTITIONS AND BARRIERS
NOT TO SCALE

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STATE OF COLORADO
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LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
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HCA Project No.: 2740000034

Revision		
No.	Date	Description

MISC. DETAILS

A801

PROJECT: 45990.00
DATE:

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

2/17/2023 5:31:33 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/45990.00_ArchCentralR22.rvt

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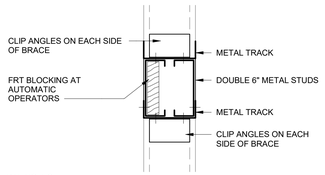
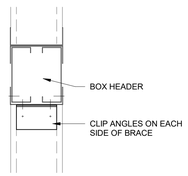
Drawn By: Author
Checked By: Checker
Approved By: Approver



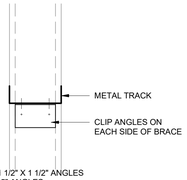
GENERAL NOTES:
1. PROVIDE 5" X 5" CLIP ANGLES.
2. SEE SPECIFICATIONS FOR STUD THICKNESS REQUIREMENTS.
3. SEE ALTERNATE DETAILS FOR SUPPORT OF OPENINGS WITH AN AUTOMATIC DOOR OPENER.

1 DOUBLE DOOR / LARGE OPENING HEADER
NOT TO SCALE



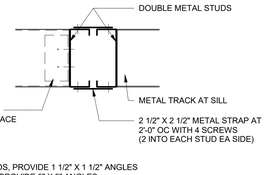
GENERAL NOTES:
1. PROVIDE 5" X 5" CLIP ANGLES.
2. SEE SPECIFICATIONS FOR STUD THICKNESS REQUIREMENTS.

2 DOOR OPENING HEADER
NOT TO SCALE



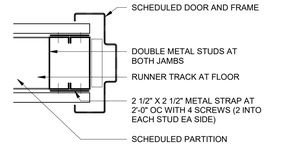
GENERAL NOTES:
1. CLIP ANGLES:
   A. FOR 3 5/8" STUDS, PROVIDE 1 1/2" X 1 1/2" ANGLES
   B. FOR 6" STUDS, PROVIDE 5" X 5" ANGLES
2. SEE SPECIFICATIONS FOR STUD THICKNESS REQUIREMENTS.

3 OPENING HEADER
NOT TO SCALE



GENERAL NOTES:
1. CLIP ANGLES:
   A. FOR 3 5/8" STUDS, PROVIDE 1 1/2" X 1 1/2" ANGLES
   B. FOR 6" STUDS, PROVIDE 5" X 5" ANGLES
2. SEE SPECIFICATIONS FOR STUD/METAL THICKNESS REQUIREMENTS.

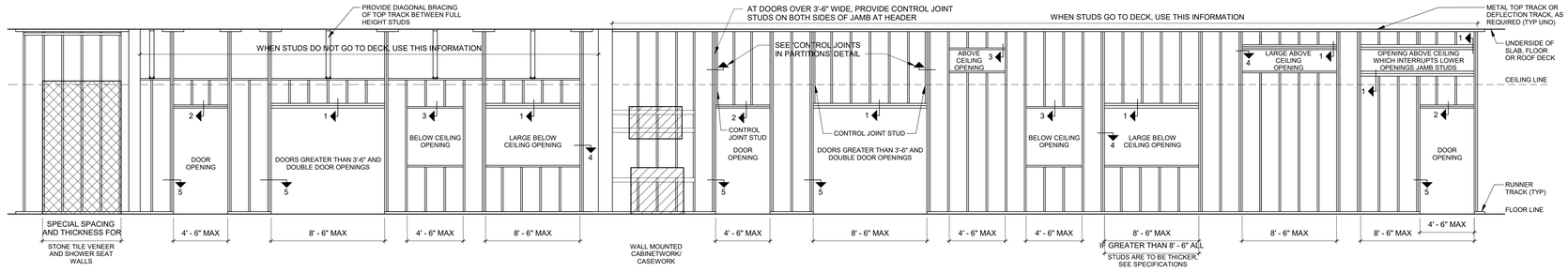
4 LARGE OPENING JAMB STUDS
NOT TO SCALE



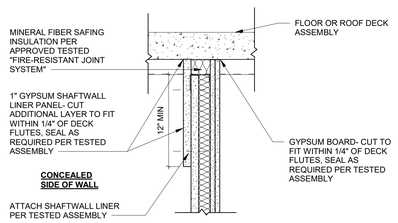
GENERAL NOTES:
1. SEE SPECIFICATIONS FOR STUD/METAL THICKNESS REQUIREMENTS.
2. SEE ALTERNATE DETAILS FOR SUPPORT OF OPENINGS WITH AN AUTOMATIC DOOR OPENER.

5 DOOR OPENING JAMB STUDS
NOT TO SCALE

GENERAL NOTES:
1. ▨ DENOTES SHELVING OR CABINETRY.
2. ▨ DENOTES STONE TILE VENEER.
3. IN NO CASE SHALL DOUBLE STUDS AT SIDES OF OPENING BE CUT FOR DUCTWORK OR OTHER MECHANICAL SYSTEMS.
4. DO NOT CUT MORE THAN ONE STUD WEB TO ALLOW FOR HORIZONTAL PIPING PATH. PROVIDE STRAP AT WEB ABOVE AND BELOW PIPE IN ORDER TO RESTORE STUD INTEGRITY. STRAP THICKNESS TO MATCH STUD THICKNESS MIN.
5. SEE SPECIFICATIONS FOR STUD/METAL THICKNESS, ALLOWABLE SPACING AND SPECIALTY SUBSTRATE REQUIREMENTS.
6. SEE "WALLS/PARTITIONS/BARRIERS" LEGEND FOR MORE REQUIREMENTS.
7. SEE BLOCKING DETAILS FOR MORE INFORMATION.
8. SEE STRUCTURAL DRAWINGS FOR HEADER REQUIREMENTS AT OPENINGS LARGER THAN 8'-6".

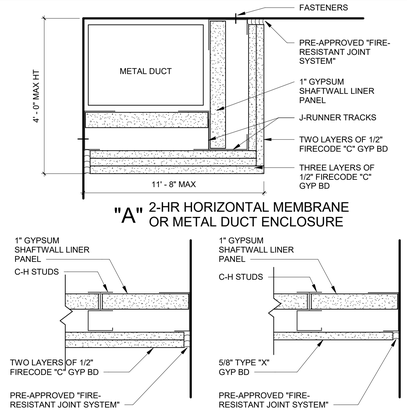


6 TYPICAL INTERIOR PARTITION FRAMING CONDITIONS
NOT TO SCALE



GENERAL NOTES:
1. INSTALL SHAFTWALL SYSTEM PER THE APPLICABLE BUILDING CODES AND MOST CURRENT EDITION OF THE GA-600 FIRE RESISTANCE DESIGN MANUAL.
2. SHAFTWALL SYSTEMS SHALL BE SEALED TO PROVIDE AN AIR-TIGHT AND SMOKE-TIGHT ENCLOSURE IN ADDITION TO THE REQUIRED FIRE RESISTANCE RATING.
3. COMPLY WITH ALL REQUIREMENTS OF THE APPLICABLE BUILDING CODES FOR FIRE RESISTANT JOINT SYSTEMS. ALL JOINTS INSTALLED IN OR BETWEEN RATED PARTITIONS OR FLOOR/ROOF ASSEMBLIES SHALL BE PROTECTED BY AN APPROVED "FIRE-RESISTANT JOINT SYSTEM" DESIGNED TO RESIST THE PASSAGE OF FIRE FOR A TIME PERIOD NOT LESS THAN THE REQUIRED RATING OF THE PARTITIONS OR FLOOR/ROOF IN OR BETWEEN WHICH IT IS INSTALLED. FIRE-RESISTANT JOINT SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF EITHER ASTM E 1966 OR UL 2079.
4. SEE THE "WALLS/PARTITIONS/BARRIERS LEGEND" FOR ADDITIONAL REQUIREMENTS.

7 2-HR SHAFTWALL AT VERTICAL SHAFT OPENING
NOT TO SCALE

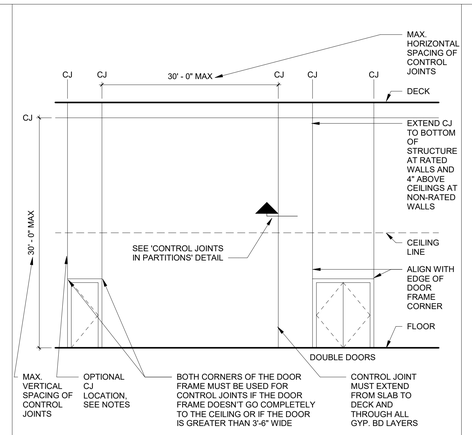


"A" 2-HR HORIZONTAL MEMBRANE OR METAL DUCT ENCLOSURE

"B" 2-HR CORRIDOR CEILING AND STAIR SOFFIT "C" 1-HR CORRIDOR CEILING AND STAIR SOFFIT

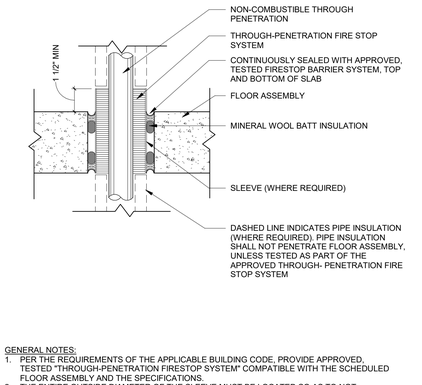
GENERAL NOTES:
1. INSTALL SHAFTWALL SYSTEM PER THE APPLICABLE BUILDING CODES AND MOST CURRENT EDITION OF THE GA-600 FIRE RESISTANCE DESIGN MANUAL.
2. SHAFTWALL SYSTEMS SHALL BE SEALED TO PROVIDE AN AIR-TIGHT AND SMOKE-TIGHT ENCLOSURE IN ADDITION TO THE REQUIRED FIRE RESISTANCE RATING.
3. AT DETAIL A, PROVIDE HORIZONTAL SHAFTWALL ASSEMBLY PER UL G586.
4. AT DETAIL B AND C, PROVIDE HORIZONTAL SHAFTWALL ASSEMBLY PER UL ER 3501-02.
5. TYPE C GYP BD MUST BE USED IN TWO HOUR RATED HORIZONTAL ASSEMBLIES. TYPE X GYP BD CANNOT BE EXCHANGED FOR TYPE C IN THIS DETAIL.

8 RATED HORIZONTAL SHAFTWALLS
NOT TO SCALE



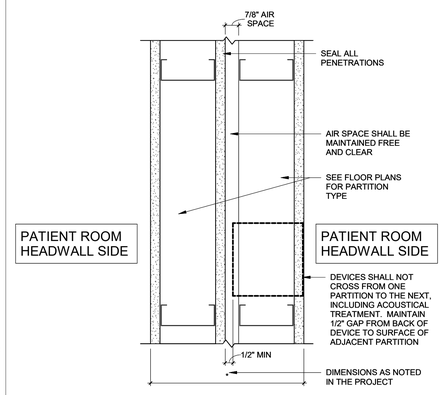
GENERAL NOTES:
1. CONTROL JOINTS SHALL COMPLY WITH THE MOST STRINGENT REQUIREMENTS OF THE APPLICABLE BUILDING CODE; THE MOST CURRENT EDITION OF: GYPSUM ASSOCIATION GA-600 FIRE RESISTANCE DESIGN MANUAL; U.L. FIRE RESISTANCE DIRECTORY; AND THE SPECIFICATIONS.
2. FOR CONTROL JOINTS IN RATED SHAFTWALL SYSTEMS, COMPLY WITH NOTE 1, THE REQUIREMENTS OF GYPSUM ASSOCIATION GA-234 CONTROL JOINTS FOR FIRE-RESISTANCE RATED SYSTEMS, AND THE SPECS.
3. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS INCLUDING MAXIMUM ALLOWED SPACING OF CONTROL JOINTS.

9 CONTROL JOINTS IN PARTITIONS
NOT TO SCALE



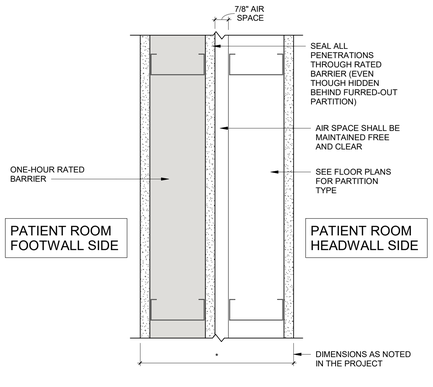
GENERAL NOTES:
1. PER THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE, PROVIDE APPROVED, TESTED "THROUGH-PENETRATION FIRESTOP SYSTEM" COMPATIBLE WITH THE SCHEDULED FLOOR ASSEMBLY AND THE SPECIFICATIONS.
2. THE ENTIRE OUTSIDE DIAMETER OF THE SLEEVE MUST BE LOCATED SO AS TO NOT INTERFERE WITH THE FINISH LOCATION OF THE SCHEDULED PARTITION. SLEEVES ARE ALLOWED TO BE VISIBLE ONLY IN NON-OCCUPIED SPACES.

10 THROUGH PENETRATIONS AT SLAB
NOT TO SCALE



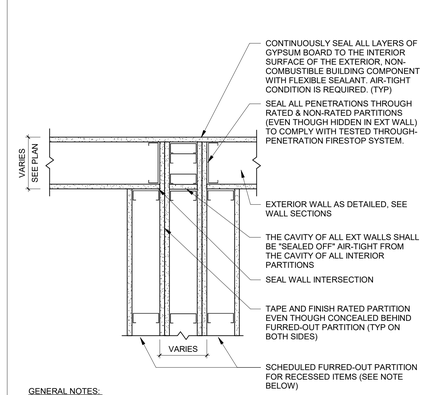
GENERAL NOTES:
1. SEE THE "WALLS/PARTITIONS/BARRIERS LEGEND" FOR ADDITIONAL REQUIREMENTS
2. THE SOUND ATTENUATION BLANKETS SHALL BE RUN CONTINUOUSLY BEHIND ALL RECESSED ITEMS. WITHOUT HOLES OR GAPS.

11 NON-RATED FULL-HEIGHT PARTITION BETWEEN PATIENT ROOMS (HEADWALL-TO-HEADWALL)
NOT TO SCALE



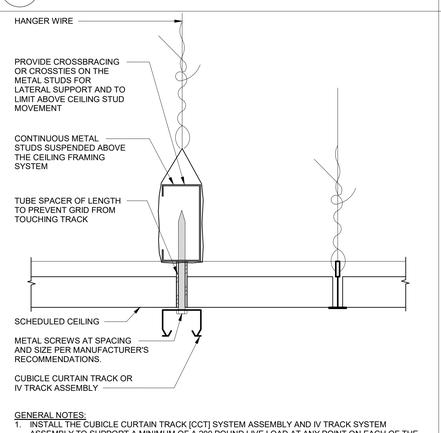
GENERAL NOTES:
1. SEE THE "WALLS/PARTITIONS/BARRIERS LEGEND" FOR ADDITIONAL REQUIREMENTS
2. THE SOUND ATTENUATION BLANKETS SHALL BE RUN CONTINUOUSLY BEHIND ALL RECESSED ITEMS. WITHOUT HOLES OR GAPS.
3. INSTALL THE ONE-HOUR RATED BARRIER PRIOR TO INSTALLING THE FURRED-OUT PARTITION.

12 ONE-HOUR RATED BARRIER BETWEEN PATIENT ROOMS (FOOTWALL-TO- HEADWALL)
NOT TO SCALE



GENERAL NOTES:
1. THIS DETAIL WOULD BE APPLICABLE ANYWHERE THERE IS A RATED PARTITION AND THERE IS AN ITEM TO BE RECESSED, WHICH HAS A SURFACE AREA GREATER THAN 16 SQUARE INCHES.
2. REFER TO THE "WALLS/PARTITION/BARRIERS LEGEND" FOR UL LISTING, ADDITIONAL COMPONENTS AND INSTALLATION REQUIREMENTS.
3. INSTALL THE RATED PARTITION PRIOR TO INSTALLING EITHER OF THE FURRED-OUT PARTITIONS.

RATED PARTITION AT EXT WALL WHEN FURRED-OUT PARTITION IS REQUIRED FOR RECESSED ITEMS
NOT TO SCALE



GENERAL NOTES:
1. INSTALL THE CUBICLE CURTAIN TRACK (CCT) SYSTEM ASSEMBLY AND IV TRACK SYSTEM ASSEMBLY TO SUPPORT A MINIMUM OF A 200 POUND LIVE LOAD AT ANY POINT ON EACH OF THE TRACKS.
2. THE CONTRACTOR SHALL VERIFY THAT THERE IS ADEQUATE CLEARANCE BETWEEN THE TRACKS AND ALL OF THE ADJACENT CEILING DEVICES.
3. WHEN A CUBICLE CURTAIN TRACK OR IV TRACK IS SHOWN TO BE LOCATED PARALLEL AND/OR IN CLOSE PROXIMITY TO AN ADJACENT WALL, SOFFIT OR CABINET, THE CENTERLINE OF THE TRACK SHALL BE AT LEAST 3 INCHES OFF THE FACE OF THE ADJACENT WALL, SOFFIT OR CABINET. THIS DIMENSION SHALL BE CLEARLY INDICATED ON THE CONTRACTOR'S SUBMITTAL OF THE DIMENSIONED LAYOUTS FOR EACH SPACE.
4. WOOD BLOCKING AND/OR WOOD SHIMS ARE NOT ALLOWED ABOVE THE CEILING.
5. SEE SPECIFICATIONS FOR STUD AND BRACING SIZE, SPACING AND THICKNESS REQUIREMENTS.

14 CUBICLE CURTAIN TRACK INSTALLATION
NOT TO SCALE

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Jun 29, 2023*
2021 INTERNATIONAL CODES & 2020 NEC

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GreshamSmith.com

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Elec.: Chris Longstreet
Telecomm: Michael Carson

M/P EOR: Benjamin Weerts
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HCA Design Mgr.: Zach Wideman
HCA Constr. Mgr.: Marc Brisebois

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Franklin, TN 37067

STATE OF COLORADO GREGORY A. GORE ARC.400645 LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

MISCELLANEOUS DETAILS

A802

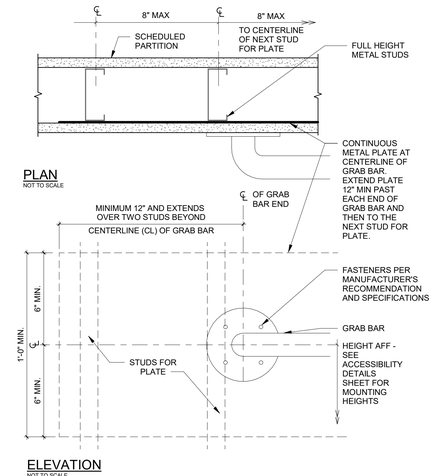
PROJECT: 45990.00
DATE:

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

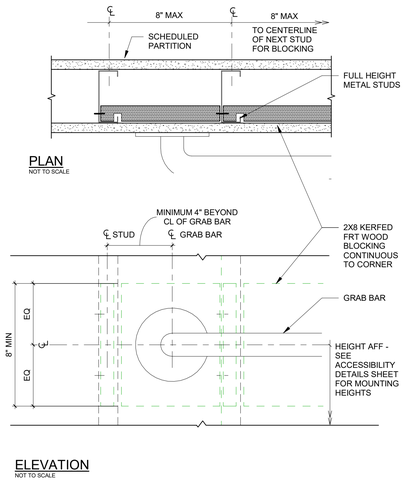
2/17/2023 5:31:37 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/45990D_ArchCentralR22.rvt

APPROVED
RSN:1707621 | PERMIT# 23-2315197-LT

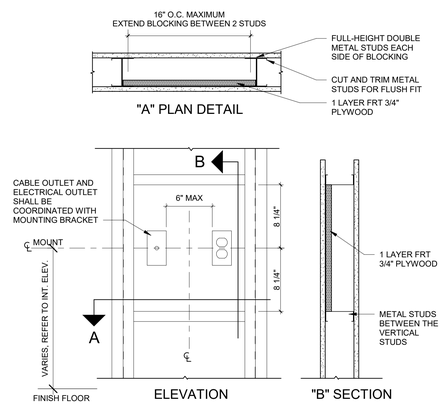
Drawn By: Author
Checked By: Checker
Approved By: Approver



1 HORIZONTAL GRAB BAR ATTACHMENT
NOT TO SCALE

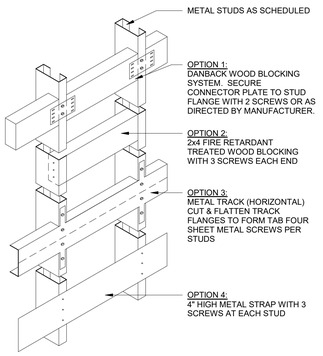


2 HORIZONTAL GRAB BAR WOOD BLOCKING
NOT TO SCALE



GENERAL NOTES:
1. PRIOR TO USING "FIRE RETARDANT TREATED WOOD" (FRT) REINFORCEMENT, THE CONTRACTOR SHALL FIRST VERIFY THAT THE USE OF THIS MATERIAL IS ACCEPTABLE TO ALL AUTHORITIES HAVING JURISDICTION. IF "FIRE RETARDANT TREATED WOOD" IS NOT ACCEPTABLE, THE CONTRACTOR SHALL PROVIDE METAL STRAPPING WITHIN THE WALLS
2. COORDINATE EXACT LOCATION AND SIZE OF WOOD BLOCKING; SPACING AND GAGE OF STUDS WITH MONITOR BRACKET AND MONITOR.
3. OBTAIN DEVICE WEIGHT AND MOUNTING TEMPLATE FROM MONITOR MANUFACTURER, ADJUST SUPPORT REQUIREMENTS AS NEEDED.
4. METAL STRAPPING MAY BE USED IN PLACE OF FRT WOOD BLOCKING IF ACCEPTABLE TO THE DESIGN PROFESSIONAL.

3 BLOCKING FOR WALL MOUNTED MONITOR BRACKET
NOT TO SCALE



GENERAL NOTES:
1. ALL WALL MOUNTED DEVICES, EQUIPMENT AND ARTWORK, WHETHER SURFACE-MOUNTED, PARTIALLY RECESS-MOUNTED OR FULLY-RECESS MOUNTED SHALL HAVE "IN-WALL FIRE RETARDANT TREATED WOOD BLOCKING OR BACKING" WHEN DIRECTED BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS TO BE SECURED IN PLACE WITH SCREW ANCHORS. THIS INCLUDES, BUT NOT LIMITED TO, THE DEVICES AND EQUIPMENT INCLUDED ON THIS DRAWING. THE LOCATIONS AND EXTENT OF THE IN-WALL BLOCKING REQUIRED, MUST BE COORDINATED BY THE CONTRACTOR WITH THE PRODUCT OR DEVICE MANUFACTURER, THE EQUIPMENT/ ART WORK VENDOR OR THE SUBCONTRACTOR.
2. SEE SPECIFICATIONS FOR THICKNESS OF STUDS AND/OR METAL STRAPPING.

4 TYPICAL BLOCKING OPTIONS
NOT TO SCALE

5 CEILING MOUNTED SUPPORT BRACKET
NOT TO SCALE

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STATE OF COLORADO
GREGORY A. GORE
ARC.400615
LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Jun 29, 2023*
2021 INTERNATIONAL CODES & 2020 NEC

MISCELLANEOUS DETAILS

A803

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

PROJECT: 45990.00
DATE:

2/17/2023 5:31:38 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/459900_ArchCentralR22.rvt

APPROVED
RSN:1707621 | PERMIT# 23-2315197-LT

Drawn By: Author
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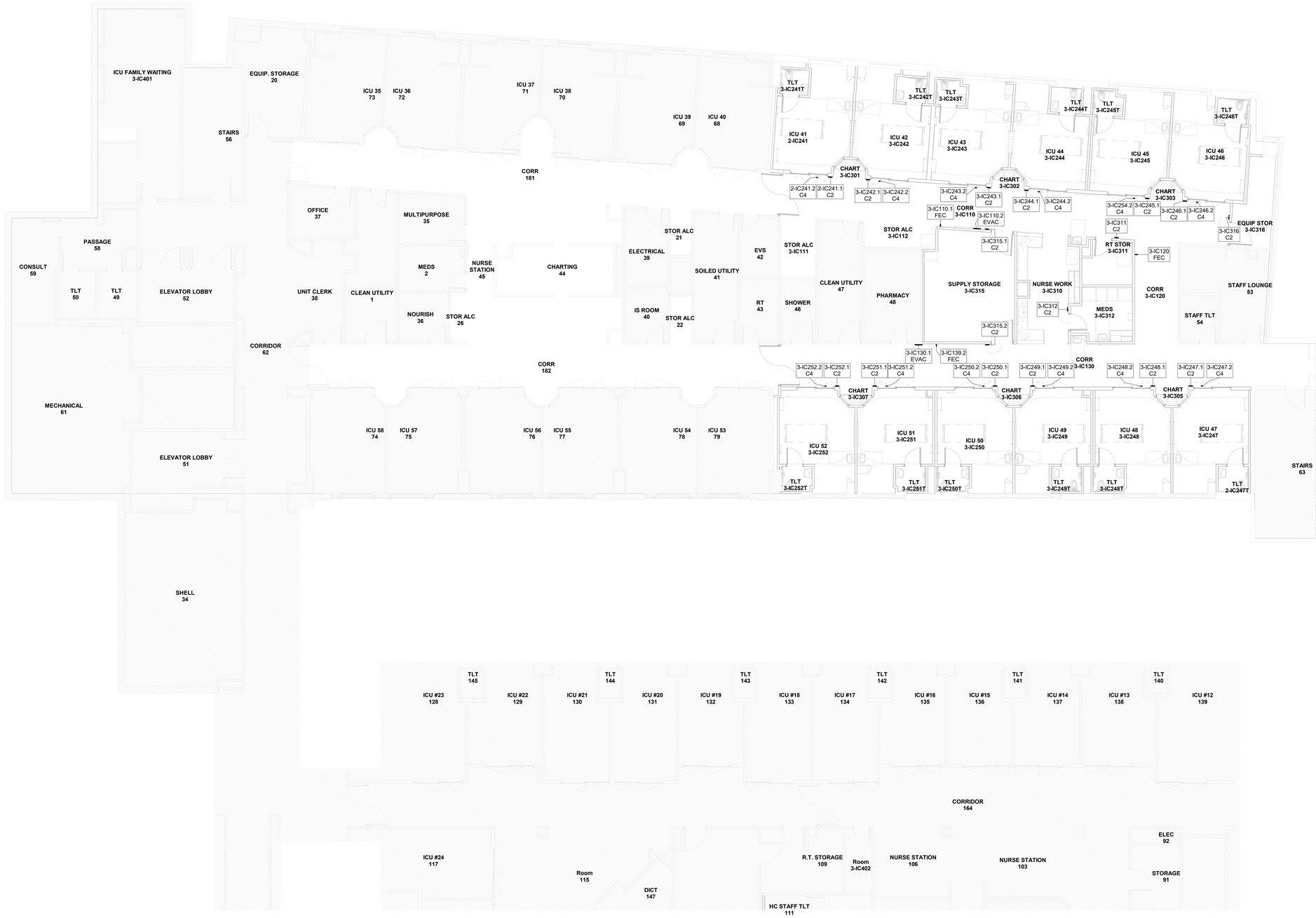


1 THIRD FLOOR SIGN LOCATION PLAN
1/8" = 1'-0" 0' 4' 8' 16' 24'

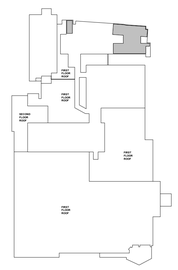
SIGN MESSAGE SCHEDULE			
Sign Location	Sign Type	Message	Comments
2-IC241.1	C2	41	
3-IC242.1	C2	42	
3-IC243.1	C2	43	
3-IC244.1	C2	44	
3-IC245.1	C2	45	
3-IC246.1	C2	46	
3-IC316	C2	EQUIPMENT STORAGE	
3-IC311	C2	RT STORAGE	
3-IC315.2	C2	SUPPLY ROOM	
3-IC312	C2	MEDICATION ROOM	
3-IC247.1	C2	47	
3-IC248.1	C2	48	
3-IC249.1	C2	49	

SIGN MESSAGE SCHEDULE			
Sign Location	Sign Type	Message	Comments
3-IC250.1	C2	50	
3-IC251.1	C2	51	
3-IC252.1	C2	52	
3-IC315.1	C2	SUPPLY ROOM	
3-IC130.1	EVAC	[EVAC MAP]	CONFIRM LOCATION WITH GC/FIRE MARSHAL
2-IC241.2	C4	41	
3-IC242.2	C4	42	
3-IC243.2	C4	43	
3-IC244.2	C4	44	
3-IC254.2	C4	45	
3-IC246.2	C4	46	
3-IC247.2	C4	47	
3-IC248.2	C4	48	
3-IC249.2	C4	49	

SIGN MESSAGE SCHEDULE			
Sign Location	Sign Type	Message	Comments
3-IC250.2	C4	50	
3-IC251.2	C4	51	
3-IC252.2	C4	52	
3-IC110.2	EVAC	[EVAC MAP]	CONFIRM LOCATION WITH GC/FIRE MARSHAL
3-IC110.1	FEC	[FEC]	CONFIRM FINAL CABINET LOCATION
3-IC120	FEC	[FEC]	CONFIRM FINAL CABINET LOCATION
3-IC139.2	FEC	[FEC]	CONFIRM FINAL CABINET LOCATION

This sheet of drawings has not been reviewed for code compliance.

KEY PLAN



TRUE NORTH PLAN NORTH

THIRD FLOOR SIGN LOCATION PLAN & MESSAGE SCHEDULE

AG203

IF NOT 3 INCHES WHEN PRINTED AT FULL SIZE
FULL SHEET SIZE = 30"X42"

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STATE OF COLORADO GREGORY A. GORE ARC.400615 LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

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HCA Project No.: 2740000034

Revision		
No.	Date	Description
0	05/04/23	Amendment 1

PROJECT: 45990.00
DATE: 05/04/23

5/2/2023 5:07:07 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/4599000_XDWCentralR22.rvt

APPROVED

RSN:1707621 | PERMIT# 23-2315197-LT

Drawn By: Author
Checked By: Checker
Approved By: Approver

1. THE SIGNAGE RELATED DRAWINGS IN THESE DOCUMENTS REPRESENT DESIGN INTENT AND IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE SIGN TYPE DOCUMENTATION IS BASED ON INFORMATION RECIEVED FROM THE MEDICAL CENTER OF AURORA AND IMAGERY OF EXISTING SIGNAGE.
2. THE SIGN CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING ON-SITE INSPECTIONS TO FIELD VERIFY ALL EXISTING CONDITIONS AFFECTING THE FABRICATION AND INSTALLATION OF SIGNS AND SIGN STRUCTURES, INCLUDING SIGN PANEL SIZES, MATERIALS AND METHODS OF FABRICATION. REPORT ANY SITE CONDITIONS AFFECTING ACCESS TO AND INSTALLATION OF SIGNS TO THE ARCHITECT.
3. ALL SIGNAGE REQUIRING ADDITIONAL SUPPORT SHALL BE ATTACHED TO SCHEDULED WALL/CEILING SURFACES WITH NON-CORROSIVE CONCEALED ANCHORS INTO SCHEDULED WALL/CEILING SURFACES. COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE ADEQUATE BLOCKING AND INTERNAL WALL OR CEILING STRUCTURES TO SUPPORT SIGNAGE. ALL PENETRATIONS OF THE BUILDING SURFACES MUST BE COMPLETELY SEALED AND MOISTURE-PROOF.
4. ALL MOUNTING HARDWARE MUST BE CONCEALED FROM VIEW AND NON-CORROSIVE. ALL HEADS ON MECHANICAL FASTENERS TO BE PRE-PAINTED/FINISHED TO MATCH ADJACENT SIGN BACKGROUND COLOR, WITH FIELD TOUCH-UP PAINT TO MATCH.
5. INTERIOR WALL-MOUNTED SIGNS TO BE MOUNTED FLUSH TO SCHEDULED WALL SURFACE WITH VHB TAPE AND PERMANENT ADHESIVE UNLESS OTHERWISE NOTED IN DRAWINGS. NO TAPE OR ADHESIVE SHALL BE VISIBLE OR READ-THROUGH AFTER INSTALLATION.
6. FIRE EVACUATION PLANS/PRINTED MAPS SHALL BE PRODUCED AND PROVIDED BY THE SIGN CONTRACTOR. SIGN CONTRACTOR TO COORDINATE ALL REQUIRED LOCATIONS, QUANTITIES, AND CONTENT REQUIREMENTS WITH THE LOCAL FIRE MARSHAL. THE SIGN CONTRACTOR SHALL OBTAIN FIRE MARSHAL APPROVAL FOR CONTENT AND PLACEMENT OF ALL FIRE EVACUATION MAPS.
7. THE SIGN CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THE SPECIFICATIONS, THE PERFORMANCE OF THE COMPLETED WORK, AND SHALL ENSURE THAT ALL SIGNS FUNCTION ACCORDING TO THE PROJECT REQUIREMENTS
8. SPECIFICATIONS SECTION 10 1400 SIGNAGE IS PROVIDED AS PART OF THESE DESIGN INTENT CONSTRUCTION DOCUMENTS AND SHALL BE UTILIZED IN CONJUCTION WITH OTHER EXISTING SPECIFICATIONS PROVIDED FOR THIS PROJECT. THE PRODUCT AND PERFORMANCE REQUIREMENTS IN THESE SPECIFICATIONS PROVIDE ADDITIONAL DETAILED INFORMATION AND REQUIREMENTS REGARDING PRODUCTS, SUBMITTALS, PROCESSES AND OTHER INFORMATION THAT SUPPLEMENTS THE INFORMATION INCLUDED ON THE DESIGN INTENT DRAWINGS

1 SIGNAGE GENERAL NOTES
NOT TO SCALE

THE LOCATION OF EACH SIGN IS INDICATED ON THE SIGN LOCATION PLANS PROVIDED. THESE LOCATION PLANS ARE FOR INFORMATIONAL PURPOSES AND COORDINATION WITH OTHER DISCIPLINES. THESE PLANS ARE INTENDED TO DEMONSTRATE THE SIZE OF EACH SIGN AND THEIR PROPOSED LOCATION IN RELATION TO OTHER CONSTRUCTED ELEMENTS.

THE CONTRACTOR SHALL VERIFY EACH LOCATION AND NOTIFY THE GRAPHIC DESIGNER AND ARCHITECT OF ANY CONFLICTS THAT MAY IMPACT THE EXACT LOCATION OF EACH SIGN. MODIFICATIONS TO SOME LOCATIONS MAY BE REQUIRED AS A RESULT OF CHANGES DURING THE CONSTRUCTION PROCESS AND ANY REVISIONS REQUIRED WILL BE DOCUMENTED BY ISSUING THE APPROPRIATE ADDENDUMS AND/OR BULLETINS.

SIGN LOCATION TAG KEY

LOCATION NUMBER → 1-SS503
SIGN TYPE → C3

2 SIGN LOCATION PLANS
NOT TO SCALE

SIGN MESSAGE SCHEDULES ARE PROVIDED FOR ALL SIGNS WITH THE PROPOSED MESSAGE CONTENT FOR EACH SIGN LOCATION.

TYPICAL LAYOUTS FOR SIGN MESSAGE CONTENT FOR EACH SIGN TYPE IS PROVIDED ON THE DESIGN SHEETS.

THE FINAL SIGN LOCATION NUMBERS, MESSAGE CONTENT AND ROOM NUMBERS SHALL BE APPROVED BY THE CLIENT PRIOR TO FABRICATION.

3 SIGN MESSAGE SCHEDULES
NOT TO SCALE

ALL ROOM NUMBERS AND SIGN LOCATION NUMBER SHOWN ON THE ARCHITECTURAL AND SIGN LOCATION PLANS ARE FOR PERMITTING, PRICING AND GENERAL INFORMATION ONLY.

REVISED ROOM NUMBERS AND SIGN LOCATION NUMBERS WILL BE FINALIZED, APPROVED BY THE CLIENT AND ISSUED AS PART A FUTURE ADDENDUM.

4 ROOM AND SIGN LOCATION NUMBERS
NOT TO SCALE

DRAWINGS INCLUDED IN THESE DOCUMENTS ARE SCALED DESIGN INTENT VERSIONS OF THE GRAPHICS TO BE FABRICATED AND INSTALLED AT THESE LOCATIONS AND WERE NOT INTENDED FOR FINAL DIGITAL PRODUCTION FILES FOR FABRICATION.

FINAL PRODUCTION ARTWORK FILES FOR DIGITAL OUT-PUT OR FABRICATION ARE THE RESPONSIBILITY OF THE SIGN FABRICATOR/INSTALLER AND WILL NEED TO BE SUBMITTED FOR REVIEW BY ARCHITECT. REFER TO GRAPHICS SIGN LOCATION SHEETS FOR INSTALLATION LOCATIONS FOR THE GRAPHICS REPRESENTED IN THIS FILE. MESSAGING SHOWN IS FOR LAYOUT PURPOSES ONLY. FIELD MEASUREMENTS ARE REQUIRED PRIOR TO FINAL PRODUCTION FILES AND FABRICATION OF GRAPHICS. REFER TO SPEC SECTION 10-1400 FOR LIST OF ALL SIGNAGE SPECIFICATIONS.

5 DESIGN DRAWINGS
NOT TO SCALE

SPECIFICATIONS SECTION 10 14 00 IS PROVIDED AS PART OF THESE DESIGN INTENT CONSTRUCTION DOCUMENTS ON DETACHED 8 1/2" X 11" SHEETS AND SHALL BE UTILIZED IN CONJUCTION WITH OTHER EXISTING SPECIFICATIONS PROVIDED FOR THIS PROJECT. REQUIREMENTS FOR ALL SIGN TYPES IN THIS PROJECT HAVE BEEN CONSOLIDATED INTO THIS ONE STATIC SIGNAGE SPECIFIC SPECIFICATIONS SECTION. THE PRODUCT AND PERFORMANCE REQUIREMENTS IN THESE SPECIFICATIONS PROVIDE ADDITIONAL DETAILED INFORMATION AND REQUIREMENTS REGARDING PRODUCTS, SUBMITTALS, PROCESSES AND OTHER INFORMATION THAT SUPPLEMENTS THE INFORMATION INCLUDED ON THE DESIGN INTENT DRAWINGS.

SPECIAL SUBMITTAL REQUIREMENTS INCLUDE PROTOTYPES, FIELD-MOCKUPS AND SAMPLES. REFER TO SECTION 10 14 01 FOR THE OWNER'S PREFERRED BRAND PRODUCT ALTERNATES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL REQUIREMENTS LISTED IN THESE SPECIFICATIONS, THE PERFORMANCE OF THE COMPLETED WORK AND ENSURE THAT ALL SIGNS FUNCTION ACCORDING TO THE PROJECT

REQUIREMENTS. IN THE EVENT OF CONFLICT, REFER TO THE INFORMATION PROVIDED ON THE DESIGN INTENT DRAWINGS.

ALL SIGN INSTALLATIONS ARE TO MEET ALL ADA GUIDLINES FOR THE MOUNTING OF SIGNS AT SCHEDULED MOUNTING LOCATIONS.

USE VHB TAPE AND SILICONE AS REQUIRED FOR SECURE MOUNTING.

ANY MECHANICAL FASTENERS AND ANCHORS ARE TO BE NON-CORROSIVE.

6 SIGNAGE SPECIFICATIONS
NOT TO SCALE

T1 : ALPHABET AND NUMERALS
TYPEFACE: HELVETICA
Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz
0123456789

7 SIGNAGE TYPESTYLES
NOT TO SCALE

MATCH EXISTING SIGN TYPE
www.mysafetysign.com

CONFIRM QTY'S AND LOCATIONS WITH GC.

8 SIGN TYPE FEC - FEC CABINET ID
NTS

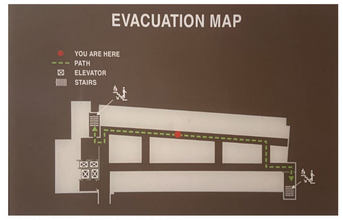
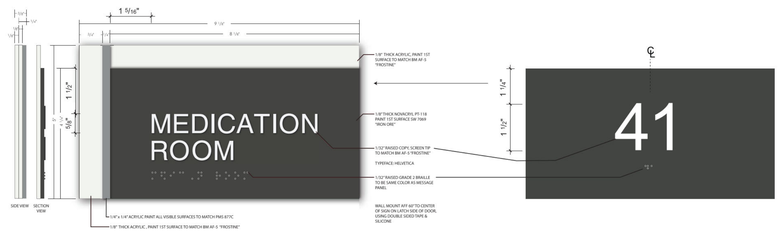


IMAGE OF EXISTING EVAC MAP

NOTE:
DIGITALLY PRINTED/WALL MOUNT EVAC MAP TO BE PRODUCED BY SIGN FABRICATOR/INSTALLER; MATCH EXISTING SIZE//MATERIAL/ART/CONTENT;
SIGN FABRICATOR TO CONSULT WITH LOCAL FIRE MARSHAL FOR FINAL QUANTITIES, CONTENT AND MOUNTING LOCATIONS FOR EVAC PLANS;

CONFIRM REQUIRED QUANTITIES WITH OWNER/GC/FIRE MARSHAL PRIOR TO FABRICATION PHASE.

9 SIGN TYPE EVAC - EVAC PLAN/WALL MOUNT
NTS



A FRONT ELEVATION

NOTE: MOUNTS TO SCHEDULED MOUNTING LOCATION WITH VHB TAPE.

B ALTERNATE ADA PANEL LAYOUT - PATIENT ROOM

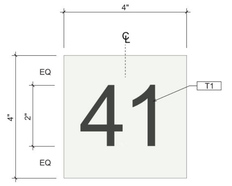
C IMAGES OF EXISTING ROOM SIGN

12 SIGN TYPE C2 - ADA ROOM ID/SMALL - PATIENT ROOM
HALF SCALE 0" 1" 2" 3" 6"

P1 MATTHEWS URETHANE PAINT HCA BLUE - MATCH BM AF-5 FROSTLINE SATIN FINISH
P2 MATTHEWS URETHANE PAINT SW 7069 IRON ORE SATIN FINISH
P3 MATTHEWS URETHANE PAINT MATCH PMS 877C SATIN FINISH

M1 1/8" THICK ACRYLIC
M2 1/8" THICK NOVACRYL PT-118
M3 1/4" THICK ACRYLIC

10 COLOR AND MATERIAL SPECIFICATIONS
NOT TO SCALE



A FRONT ELEVATION

M1 PAINTED P1; T1 TEXT P2
MOUNTS TO SCHEDULED MOUNTING LOCATION WITH VHB TAPE.
CONFIRM FINAL COLORS AND MOUNTING LOCATIONS WITH GC/OWNER

IMAGE OF EXISTING ICU/PATIENT ROOM NUMBER; MOUNTS ABOVE DOOR OPENING TO PATIENT ROOM

11 SIGN TYPE C4 - NON-ADA PATIENT ROOM ID
HALF SCALE 0" 1" 2" 3" 6"

This sheet of drawings has not been reviewed for code compliance.

0 RESERVED FOR FUTURE USE

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STATE OF COLORADO
GREGORY A. GORE
ARC.0000615
LICENSED ARCHITECT
05.04.23

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description
0	05/04/23	Amendment 1

PROJECT INFORMATION AND SIGN TYPE DETAILS

AG501

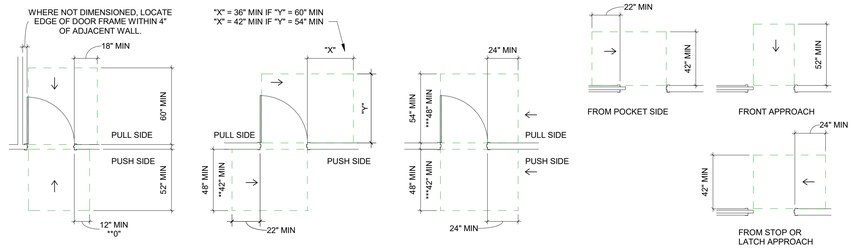
LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

PROJECT: 45990.00
DATE: 05.04.23

5/2/2023 5:07:22 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/4599000_XDWCentralR22.rvt

APPROVED
RSN:1707621 | PERMIT# 23-2315197-LT

Drawn By: Author
Checked By: Checker
Approved By: Approver



"A" MINIMUM CLEAR FLOOR SPACE FOR MANEUVERING CLEARANCE AT FRONT APPROACHES AT SWINGING DOORS AND GATES

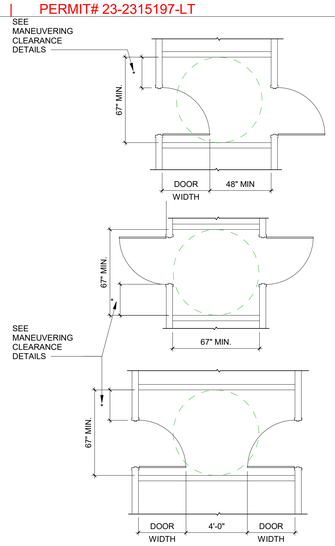
"B" MINIMUM CLEAR FLOOR SPACE FOR MANEUVERING CLEARANCE AT HINGE SIDE APPROACHES AT SWINGING DOORS AND GATES

"C" MINIMUM CLEAR FLOOR SPACE FOR MANEUVERING CLEARANCE AT LATCH SIDE APPROACHES AT SWINGING DOORS AND GATES

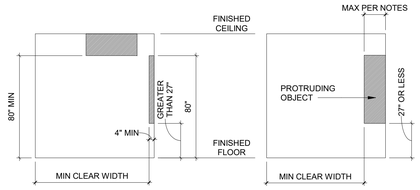
"D" MINIMUM CLEAR FLOOR SPACE FOR MANEUVERING CLEARANCE AT DOORWAYS WITHOUT DOORS OR GATES, SLIDING AND FOLDING DOORS.

GENERAL NOTES:
1. THE FLOOR AREA WITHIN THE REQUIRED MANEUVERING CLEARANCES AT DOORS AND GATES SHALL BE LEVEL AND CLEAR.
2. WHERE ANY OBSTRUCTION WITHIN 18" OF THE LATCH SIDE OF THE DOORWAYS PROJECTS MORE THAT 8" BEYOND THE FACE OF THE DOOR OR GATE, MANEUVERING CLEARANCES FOR A FORWARD APPROACH SHALL BE PROVIDED.
3. DASHED LINES INDICATE MANEUVERING CLEARANCES.
4. DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32".
5. ** INDICATES A MINIMUM DIMENSION REQUIRED IF DOOR OR GATE DOES NOT HAVE A CLOSER AND A LATCH.
6. *** INDICATES A MINIMUM DIMENSION REQUIRED IF DOOR OR GATE DOES NOT HAVE A CLOSER.

1 MANEUVERING CLEARANCES AT DOORS AND GATES
NOT TO SCALE



2 MANEUVERING CLEARANCES AT DOORS IN SERIES
NOT TO SCALE

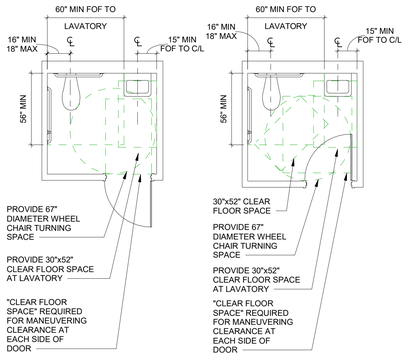


"A" LEADING EDGE OF OBJECT GREATER THAN 27" AFF

"B" LEADING EDGE OF OBJECT LESS THAN 27" AFF

GENERAL NOTES:
1. THIS DETAIL APPLIES TO WALL AND CEILING MOUNTED OBJECTS WHICH PROTRUDE INTO CIRCULATION PATHS (WALKS, SIDEWALKS, CORRIDORS, PASSAGEWAYS OR AISLES). IT DOES NOT APPLY TO FREESTANDING OBJECTS.
2. PROTRUDING OBJECTS SHALL NOT PROTRUDE INTO THE REQUIRED CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR MANEUVERING SPACE.
3. PROTRUDING OBJECTS SHALL NOT REDUCE THE REQUIRED MINIMUM CLEAR WIDTH OF A CORRIDOR, PASSAGEWAY OR AISLE AS INDICATED ON DETAIL AND AS REQUIRED BY THE APPLICABLE CODES THAT ARE ENFORCED BY THE AHJ FOR THIS PROJECT.
4. FREESTANDING OBJECTS THAT ARE MOUNTED ON POSTS OR PYLONS SHALL OVERHANG CIRCULATIONS PATHS HORIZONTALLY 12" MAXIMUM IF THE LEADING EDGE OF THE OVERHANGING OBJECT IS BETWEEN 27" AFF AND 80" AFF AS LONG AS THEY COMPLY WITH THE PRECEEDING NOTES. IF MULTIPLE POSTS ARE USED, LOWER EDGE OF SIGN MUST BE AT 27" MAXIMUM OR 80" MINIMUM AFF IF POSTS ARE 12" OR GREATER APART.
5. CIRCULATION PATHS SHALL HAVE 6'-8" MINIMUM CLEAR HEADROOM. IF THE VERTICAL CLEARANCE OF AN AREA THAT IS ADJOINING AN ACCESSIBLE ROUTE IS REDUCED TO LESS THAN 6'-8" A BARRIER TO WARN BLIND OR VISUALLY-IMPAIRED PERSONS SHALL BE PROVIDED WITH LEADING EDGE OF BARRIER AT 27" MAXIMUM AFF.

3 LIMITS OF WALL AND CEILING MOUNTED PROTRUDING OBJECTS INTO CIRCULATION PATHS
NOT TO SCALE

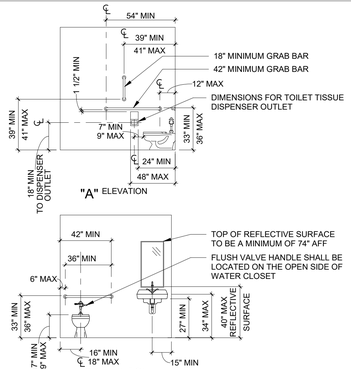


"A" TOILET ROOM WITH OUT-SWINGING DOOR

"B" TOILET ROOM WITH IN-SWINGING DOOR

GENERAL NOTES:
1. DIMENSION FROM THE FACE-OF-FINISH AT ADJACENT SIDE WALL TO THE CENTERLINE OF THE WATER CLOSET APPLIES TO THE FULL LENGTH OF THE WATER CLOSET. INSTALL WATER CLOSETS PARALLEL TO SIDE WALL.
2. IF A 30" X 52" CLEAR FLOOR SPACE IS PROVIDED BEYOND THE ARC OF THE DOOR AS SHOWN IN OPTION B, DOORS SHALL BE PERMITTED TO SWING INTO THE CLEARANCE REQUIRED FOR ANY FIXTURE.

4 ACCESSIBLE TOILET ROOM FLOOR PLANS
NOT TO SCALE

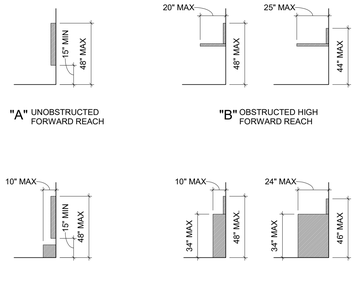


"A" ELEVATION

"B" ELEVATION

GENERAL NOTES:
1. ALL HORIZONTAL GRAB BARS TO BE MOUNTED AT SAME HEIGHT AFF. HEIGHTS INDICATED ARE TO TOP OF GRIPPING SURFACE.
2. TOILET TISSUE DISPENSERS THAT CONTROL DELIVERY OR DO NOT PERMIT CONTINUOUS TOILET TISSUE FLOW SHALL NOT BE USED.
3. WATER SUPPLY PIPING AND DRAIN PIPES UNDER LAVATORY SHALL BE INSULATED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORY.

5 ACCESSIBLE TOILET ROOM ELEVATIONS
NOT TO SCALE



"A" UNOBSTRUCTED FORWARD REACH

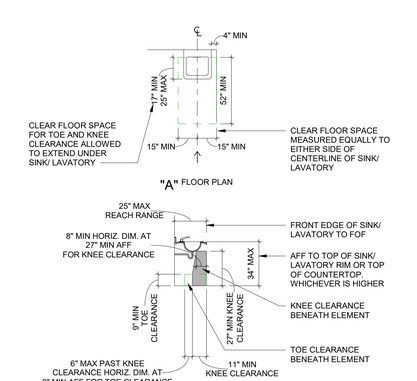
"B" OBSTRUCTED HIGH FORWARD REACH

"C" UNOBSTRUCTED SIDE REACH

"D" OBSTRUCTED HIGH SIDE REACH

GENERAL NOTES:
1. THE TOP OF WASHING MACHINES AND CLOTHES DRYERS SHALL BE PERMITTED TO BE 36" MAXIMUM AFF.
2. OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES INDICATED. OPERABLE PARTS INCLUDE DEVICES ON ANY ITEM REQUIRED TO MAKE THE ITEM WORK FOR IT'S INTENDED USE. THE ITEM MAY BE END-USER OR CONTRACTOR PROVIDED, BUT MUST COMPLY AS NOTED.

6 REACH RANGES
NOT TO SCALE

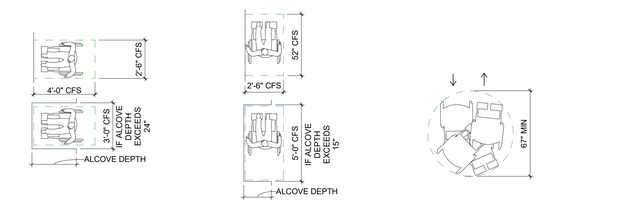


"A" FLOOR PLAN

"B" SIDE ELEVATION

GENERAL NOTES:
1. ACCESSIBLE WALL MOUNTED SINK/ LAVATORY FAUCETS SHALL BE LEVER OPERATED, PUSH-TYPE, OR ELECTRONICALLY CONTROLLED MECHANISMS THAT PROVIDE FREE FLOW OF WATER FOR A MINIMUM OF 10 SECONDS.
2. WATER SUPPLY PIPING AND DRAIN PIPES UNDER LAVATORY SHALL BE INSTALLED WITH PROTECTIVE SHIELDING GUARDS. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER SINK/ LAVATORY

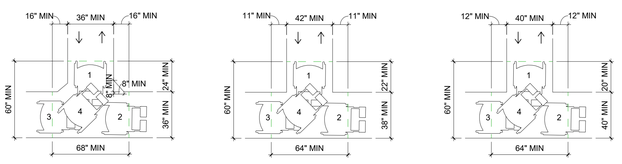
7 ACCESSIBLE WALL-MOUNTED SINKS AND LAVATORIES
NOT TO SCALE



"A" CLEAR FLOOR SPACE FOR FORWARD REACH

"B" CLEAR FLOOR SPACE OR SIDE REACH

"C" WHEELCHAIR TURNING SPACE 67" DIAMETER



"D" T-SHAPED WHEELCHAIR TURNING SPACE FOR 180 DEGREE TURNS OPTION 1

T-SHAPED WHEELCHAIR TURNING SPACE FOR 180 DEGREE TURNS OPTION 2

T-SHAPED WHEELCHAIR TURNING SPACE FOR 180 DEGREE TURNS OPTION 3

GENERAL NOTES:
1. ALL DIMENSIONS ARE MINIMUM DIMENSIONS FOR THE REQUIRED CLEAR FLOOR SPACE (CFS)
2. ONE FULL UNOBSTRUCTED SIDE OF THE "CLEAR FLOOR SPACE" SHALL ADJOIN OR OVERLAP AN "ACCESSIBLE ROUTE" OR ADJOIN ANOTHER "CLEAR FLOOR SPACE".
3. FLOOR SURFACES OF BOTH "CLEAR FLOOR SPACE" AND "WHEELCHAIR TURNING SPACE" SHALL HAVE A SLOPE NOT GREATER THAN 1:48.
4. CROSS SLOPES ON AN "ACCESSIBLE ROUTE" SHALL NOT EXCEED 1:48.

8 CLEAR FLOOR SPACE
NOT TO SCALE

This sheet of drawings has not been reviewed for code compliance.

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STATE OF COLORADO GREGORY A. GORE ARC.400615 LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

2017 ACCESSIBILITY DETAILS AND GENERAL NOTES

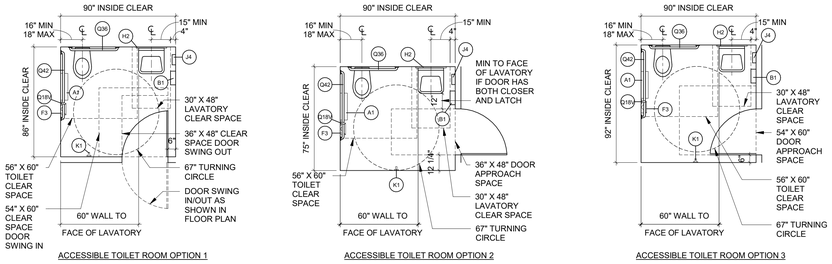
A835

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

PROJECT: 45990.00
DATE:

2/17/2023 5:31:42 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/459900_ArchCentralR22.rvt

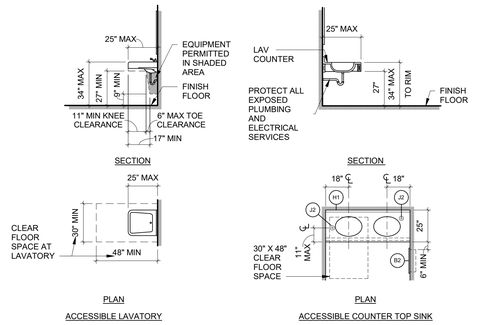
APPROVED
RSN:1707621 | PERMIT# 23-2315197-LT



ACCESSIBLE TOILET ROOM OPTION 1 | ACCESSIBLE TOILET ROOM OPTION 2 | ACCESSIBLE TOILET ROOM OPTION 3

GENERAL NOTES:
1. LOCATE FLUSH ACTIVATION ON WIDE SIDE AT ALL WATER CLOSETS.
2. 59" X 60" TOILET CLEAR SPACE FOR FLOOR MOUNTED AND 56" X 60" TOILET CLEAR FLOOR SPACE FOR WALL HUNG WATER CLOSETS.
3. WALL MOUNTED LAVATORY SHALL BE 19" W X 17" D MIN.
4. A WHEELCHAIR ACCESSIBLE STALL IS REQUIRED IN TOILET ROOMS WITH 6 OR MORE TOILET STALLS.
5. REFER TO SPECIFICATIONS FOR FURTHER TOILET ACCESSORY REQUIREMENTS AND ACTUAL PRODUCT INFORMATION.
6. TOILET ACCESSORY DESIGNATIONS ARE APPLICABLE TO THIS SHEET ONLY AND MAY NOT RELATE TO THE SPECIFICATIONS.
7. THESE GRAPHICS ARE FOR ACCESSIBILITY AND MOUNTING HEIGHT EXPLANATION PURPOSES ONLY AND ARE NOT NECESSARILY REPRESENTATIVE OF THE ACTUAL SPECIFIED ITEM.

1 ACCESSIBLE TOILET ROOM LAYOUT OPTIONS
NOT TO SCALE



GENERAL NOTE:
THESE GRAPHICS ARE FOR ACCESSIBILITY AND MOUNTING HEIGHT EXPLANATION PURPOSES ONLY AND ARE NOT NECESSARILY REPRESENTATIVE OF THE ACTUAL SPECIFIED ITEM.

2 ACCESSIBLE LAVATORY OPTIONS
NOT TO SCALE

GENERAL NOTES FOR ACCESSIBILITY

G275. STRUCTURAL STRENGTH FOR GRAB BARS, BENCHES, TUB AND SHOWER SEATS, FASTENERS AND MOUNTING DEVICES TO COMPLY WITH THE SPECIFICATIONS IN THE PROJECT MANUAL AND SHALL MEET THE FOLLOWING CRITERIA:
- A. FOR GRAB BARS: ALLOWABLE STRESSES IN BENDING, SHEAR AND TENSION SHALL NOT BE EXCEEDED FOR MATERIALS USED WHERE A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE OR SUPPORTING STRUCTURE.
- B. FOR BENCHES AND SEATS: ALLOWABLE STRESSES IN BENDING, SHEAR AND TENSION SHALL NOT BE EXCEEDED FOR MATERIALS USED WHERE A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE SEAT, FASTENER, MOUNTING DEVICE OR SUPPORTING STRUCTURE.
- C. BENDING STRESS IN A GRAB BAR, BENCH OR SEAT INDUCED BY THE MAXIMUM BENDING MOMENT FROM THE APPLICATION OF 250 POUNDS SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE MATERIAL OF THE GRAB BAR, BENCH OR SEAT.
- D. SHEAR STRESS INDUCED IN A GRAB BAR, BENCH OR SEAT BY THE APPLICATION OF 250 POUNDS SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR, BENCH OR SEAT. IF THE CONNECTION BETWEEN THE GRAB BAR, BENCH OR SEAT AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESS SHALL BE TOTALED FOR THE COMBINED SHEAR STRESS, WHICH SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.
- E. SHEAR FORCE INDUCED IN A FASTENER OR MOUNTING DEVICE FROM THE APPLICATION OF 250 POUNDS SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE, WHICHEVER IS THE SMALLER ALLOWABLE LOAD.
- F. TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF 250 POUNDS PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF 250 POUNDS SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND THE SUPPORTING STRUCTURE.

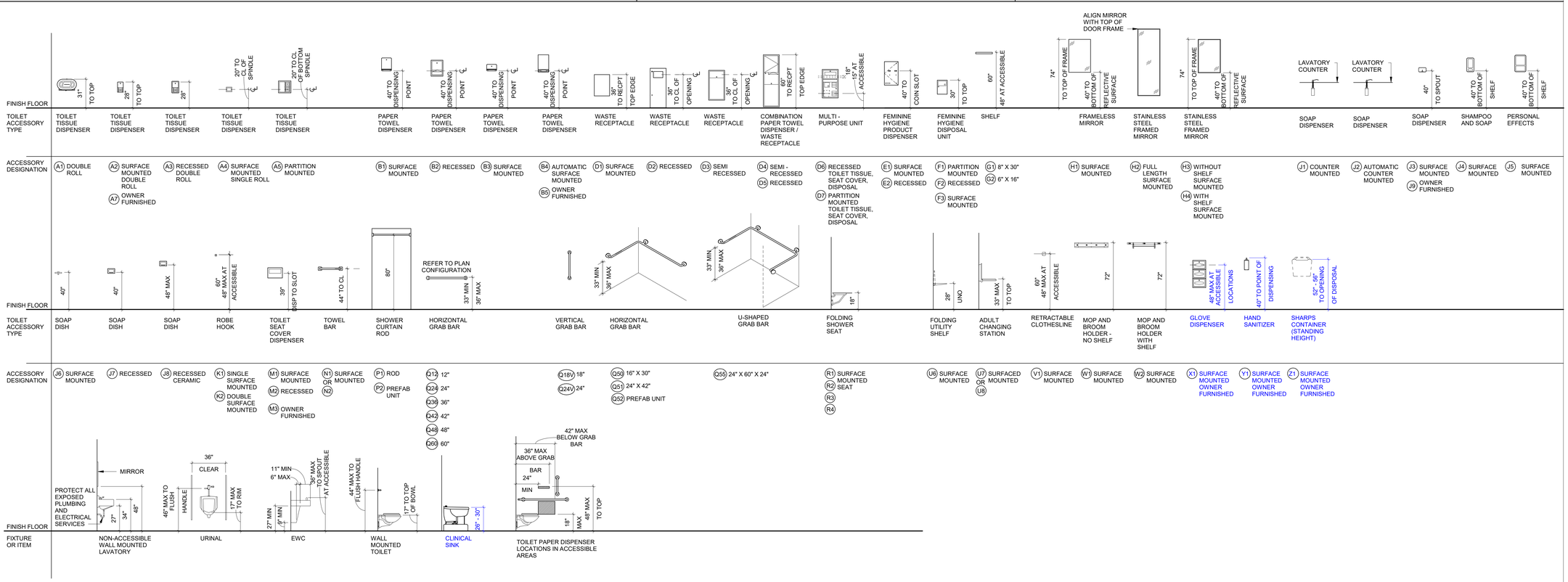
G276. RECESSED FLOOR SLABS (OF ANY DEPTH AND/OR OF ANY SIZE) AT ROLL-IN SHOWERS AND TRANSFER-TYPE SHOWERS MUST BE CAREFULLY COORDINATED WITH THE STRUCTURAL ENGINEER AND WITH THE ARCHITECT SO THAT BOTH THE STRUCTURAL INTEGRITY AND THE REQUIRED FIRE RATING OF THE FLOOR SLAB ARE NOT DIMINISHED IN ANY WAY.

G277. COMPLY WITH THE SPECIFICATIONS AND STANDARD DETAILS FOR BACKING AND BLOCKING REQUIREMENTS FOR ALL ITEMS NOT ADDRESSED ABOVE

G278. "AFF" INDICATES ABOVE FINISH FLOOR
"MIN" INDICATES MINIMUM
"MAX" INDICATES MAXIMUM

G279. ALL MINIMUM INSIDE CLEAR AND/OR MINIMUM CLEAR DIMENSIONS MUST TAKE INTO ACCOUNT THE THICKNESS OF WALL FINISHES SUCH AS CERAMIC TILE, SOLID SURFACE MATERIAL, BACKER BOARD OR ANY OTHER FINISH MATERIAL BEING USED OVER THE GYPSUM BOARD, CMU, ETC.

G280. LOCATION OF TOILET ACCESSORIES ARE SHOWN FOR REFERENCE FOR ACCESSIBILITY REQUIREMENTS ONLY. SEE DRAWINGS FOR SPECIFIC LOCATIONS AND ADDITIONAL INFORMATION.



GENERAL NOTES:
1. REFER TO FLOOR PLANS AND/OR INTERIOR ELEVATIONS FOR REQUIRED TOILET ACCESSORIES.
2. REFER TO SPECIFICATIONS FOR FURTHER TOILET ACCESSORY REQUIREMENTS AND ACTUAL PRODUCT INFORMATION.
3. TOILET ACCESSORY DESIGNATIONS ARE APPLICABLE TO THIS SHEET ONLY AND MAY NOT RELATE TO THE SPECIFICATIONS.
4. THESE GRAPHICS ARE FOR ACCESSIBILITY AND MOUNTING HEIGHT EXPLANATION PURPOSES ONLY AND ARE NOT NECESSARILY REPRESENTATIVE OF THE ACTUAL SPECIFIED ITEM.

3 MOUNTING HEIGHT DIAGRAMS
NOT TO SCALE

This sheet of drawings has not been reviewed for code compliance.

Drawn By: Author
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THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

2017 TOILET LAYOUTS AND MOUNTING HEIGHTS

A837

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

PROJECT: 45990.00
DATE:

02202023
2/17/2023 5:31:47 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/45990_ArchCentralR22.rvt

APPROVED
RSN:1707621 | PERMIT# 23-2315197-LT

Drawn By: Author
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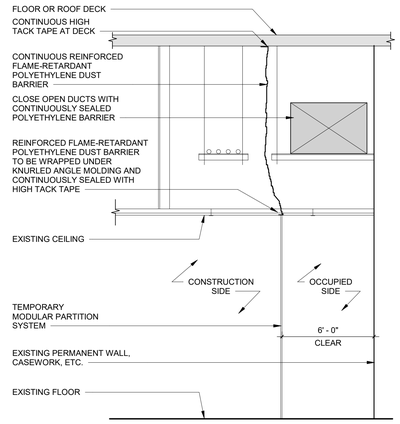
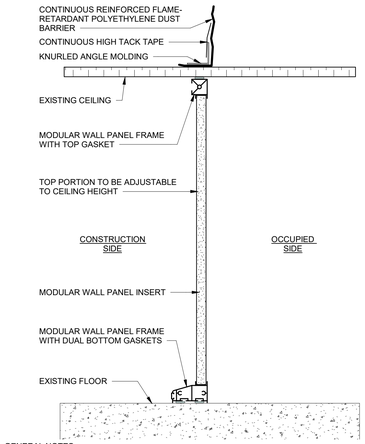


GENERAL NOTES:
1. PROVIDE FIBERGLASS REINFORCED POLYMER BARRIER ABOVE AND/OR BELOW THE CEILING AS REQUIRED TO PROVIDE A CONTINUOUS SHORT-TERM DUST CONTROL SEPARATION TO THE NEW CONSTRUCTION. ALL FIBERGLASS REINFORCED POLYMER BARRIER MATERIAL SHALL BE IN ACCORDANCE WITH NFPA 701, NON-TOXIC, REINFORCED AND FIRE RETARDANT.
2. IN ACCORDANCE WITH NFPA 241 PART 8.6.2.2 WHEN THE APPROVED AUTOMATIC FIRE SPRINKLER SYSTEM IS ACTIVE ON BOTH SIDES OF THE TEMPORARY CONSTRUCTION BARRIER, A NON RATED, SMOKE RESISTIVE WALL (MANUFACTURED, MODULAR PARTITION SYSTEM) WITH SELF-CLOSING DOORS AT THE OPENINGS CAN BE USED IN LIEU OF THE 1-HOUR FIRE-RATED CONSTRUCTION BARRIER.

1 TEMPORARY MODULAR CONSTRUCTION PARTITION
NOT TO SCALE



GENERAL NOTES:
1. THE CONTRACTOR SHALL MAINTAIN 6'-0" CLEAR IN ALL CORRIDORS AND PASSAGES ALONG THE FULL LENGTH OF THE TEMPORARY NON RATED CONSTRUCTION PARTITION, ON THE OCCUPIED SIDE.
2. ALL PANELS SHALL BE GASKETED WHEN PLACED AGAINST EXISTING TO REMAIN SURFACES.
3. ALL PENETRATIONS THROUGH AND THE PERIMETER OF THE DUST BARRIER AND BELOW CEILING PARTITION MUST BE CONTINUOUSLY SEALED FOR THE DURATION OF CONSTRUCTION.
4. DOORS AND FRAMES IN TEMPORARY MODULAR CONSTRUCTION PARTITIONS SHALL HAVE A CLOSER, HAVE POSITIVE LATCHING AND BE LOCKABLE.
5. THE DETAILS, CONFIGURATION AND COMPONENTS MUST BE PRE-APPROVED BY THE AHJ PRIOR TO USE.
6. REPLACE ANY DAMAGED CEILING COMPONENTS TO MATCH EXISTING IN MATERIALS AND FINISH.

2 TEMPORARY MODULAR CONSTRUCTION PARTITION
NOT TO SCALE

GENERAL NOTES: TEMPORARY CONSTRUCTION PARTITIONS (ICRA BARRIERS)

1. PROVIDE TEMPORARY PARTITIONS AND DOORS AS NECESSARY TO SEPARATE CONSTRUCTION AREAS FROM OCCUPIED AREAS TO CONTAIN CONSTRUCTION ACTIVITIES AND PREVENT DISRUPTION. CONTAINMENT SHALL REMAIN IN PLACE UNTIL CONSTRUCTION ACTIVITIES ARE COMPLETE AND APPROVED BY THE AHJ AND OWNER.
2. THE CONTRACTOR SHALL MAINTAIN 6'-0" CLEAR IN ALL CORRIDORS AND PASSAGES ALONG THE FULL LENGTH OF THE TEMPORARY PARTITION, ON THE OCCUPIED AREA SIDE.
3. ENTRY INTO THE CONSTRUCTION AREAS SHALL HAVE A DOOR OR ZIPPER THAT IS CONTINUOUSLY SEALED TO THE ADJACENT EXISTING OR TEMPORARY PARTITIONS. WHEN DOORS ARE PROVIDED, THEY SHALL HAVE CLOSERS AND BE LOCKABLE.
4. PROVIDE SIGNAGE ON ALL DOORS INTO THE CONSTRUCTION AREA STATING "AUTHORIZED PERSONNEL ONLY - DO NOT ENTER – CONSTRUCTION AREA".
5. PROVIDE A VESTIBULE OR ANTEROOM INTO THE CONSTRUCTION AREA WHEN REQUIRED BY THE OWNER'S INFECTION CONTROL RISK ASSESSMENT (ICRA) REPORT.
6. MAINTAIN NEGATIVE PRESSURE IN THE CONSTRUCTION AREA AT ALL TIMES. PROVIDE CONTINUOUSLY RECORDED MEASUREMENT OF PRESSURE WHEN REQUIRED BY THE OWNER'S ICRA REPORT.
7. PORTIONS OF WORK, INCLUDING THE DEMOLITION AND INSTALLATION OF MECHANICAL, PLUMBING, ELECTRICAL, ETC. ITEMS, THAT ARE OUTSIDE OF THE CONTAINED CONSTRUCTION AREA OR IN AN OCCUPIED AREA, MUST BE COORDINATED WITH THE OWNER AND PROPER PROTECTION PROVIDED, AS DIRECTED BY THE OWNER.
8. WHEN REQUIRED BY THE OWNER'S ICRA REPORT, ALL MATERIALS REMOVED FROM THE CONSTRUCTION AREA SHALL BE CONTAINED AND COVERED THE ENTIRE DISTANCE OF TRANSPORT TO THE APPROVED DISPOSAL SITE. THE PATH OF TRAVEL FOR THESE MATERIALS SHALL BE PRE-APPROVED BY THE OWNER.
9. LIFE SAFETY DEVICES AND AUTOMATIC FIRE SPRINKLER SYSTEM DEVICES AND SYSTEMS THAT MAY BE DISRUPTED, BLOCKED, RELOCATED OR DEACTIVATED DURING CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE OWNER, SO THAT AN INTERIM LIFE SAFETY PLAN (ISLM) CAN BE ESTABLISHED AND MAINTAINED.
10. COORDINATE TEMPORARY SIGNAGE AND WAYFINDING WITH THE OWNER TO PROVIDE A CLEAR PUBLIC PATH OF TRAVEL AROUND THE CONSTRUCTION AREA.
11. ANCILLARY REQUIREMENTS FOR THE CONTAINMENT OF CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE OWNER. THIS MAY INCLUDE, PERSONAL PROTECTIVE EQUIPMENT, VACUUMS WITH HEPA FILTRATION, WALK-ON/WALK-OFF PEELABLE TACKY MATS, MOBILE CONTAINMENT UNITS, CLEANING PROTOCOLS FOR PEOPLE AND EQUIPMENT, WORKING HOURS, NOISE CONTAINMENT, VIBRATION CONTAINMENT AND FOOD/DRINK RESTRICTIONS. WHEN PROVIDED BY THE OWNER, POST ICRA REPORT(S) AT EACH ENTRY INTO THE CONSTRUCTION AREA.
12. WHEN A TEMPORARY CONSTRUCTION BARRIER BREAKS AN EXISTING FIRE / SMOKE PARTITION AND SEPARATES MAJOR CONSTRUCTION FROM AN OCCUPIED AREA THE TEMPORARY CONSTRUCTION SHALL MEET THE SAME FIRE / SMOKE SEPARATION REQUIREMENTS AS THE ADJACENT PARTITION / COMPARTMENT, INCLUDING BUT NOT LIMITED TO THE CONSTRUCTION ENTRANCE DOOR.
13. A FIRE WATCH IS REQUIRED IF THE SPRINKLER, SMOKE, FLOW OR FIRE ALARM SIGNALING SYSTEMS ARE IMPAIRED LONGER THAN FOUR TOTAL HOURS IN A 24-HOUR PERIOD IN AN OCCUPIED BUILDING. CONTRACTOR IS TO COORDINATE WITH THE OWNER AND COORDINATE WITH THE FIRE DEPARTMENT PRIOR TO THE SHUTDOWN(S) TO OBTAIN AND FOLLOW ANY SPECIAL REQUIREMENTS FROM THE AHJ AND THE OWNER. FOLLOW ALL REQUIREMENTS OF THE MOST CURRENT NFPA 101 FOR FIRE WATCH. CONTRACTOR TO COORDINATE WITH OWNER FOR PROVIDING TRAINED PERSONNEL TO PATROL THE AREA.
14. COORDINATE CONSTRUCTION PHASING AND TEMPORARY BARRIERS WITH THE OWNER TO OBTAIN AN INTERIM LIFE SAFETY MEASURES PLAN (ILSM). TEMPORARILY RELOCATE FIRE PULLS, EGRESS SIGNAGE, FIRE EXTINGUISHERS, LIGHTING, AND FIRE PROTECTION SYSTEMS, AND MECHANICAL SYSTEMS AS INDICATED AND REQUIRED TO ACCOMMODATE THE CONSTRUCTION PHASING, FIRE WATCH, AND OR AHJ.

GENERAL NOTES:
1. THE CONTRACTOR SHALL MAINTAIN 6'-0" CLEAR IN ALL CORRIDORS AND PASSAGES ALONG THE FULL LENGTH OF THE TEMPORARY NON RATED CONSTRUCTION PARTITION, ON THE OCCUPIED SIDE.
2. ALL JOINTS SHALL BE TAPED WITH HIGH-TACK TAPE.
3. ALL PENETRATIONS THROUGH AND THE PERIMETER OF THE DUST BARRIER AND BELOW CEILING PARTITION MUST BE CONTINUOUSLY SEALED FOR THE DURATION OF CONSTRUCTION.
4. DOORS AND FRAMES IN TEMPORARY NON RATED CONSTRUCTION PARTITIONS SHALL HAVE A CLOSER, HAVE POSITIVE LATCHING AND BE LOCKABLE.
5. THE DETAILS, CONFIGURATION AND COMPONENTS MUST BE PRE-APPROVED BY THE AHJ PRIOR TO USE.
6. REPLACE ANY DAMAGED CEILING COMPONENTS TO MATCH EXISTING IN MATERIALS AND FINISH.

3 TEMPORARY NON RATED CONSTRUCTION PARTITION
NOT TO SCALE

GENERAL NOTES:
1. THE CONTRACTOR SHALL MAINTAIN 6'-0" CLEAR IN ALL CORRIDORS AND PASSAGES ALONG THE FULL LENGTH OF THE TEMPORARY NON RATED CONSTRUCTION PARTITION, ON THE OCCUPIED SIDE.
2. ALL JOINTS SHALL BE TAPED WITH HIGH-TACK TAPE.
3. ALL PENETRATIONS THROUGH AND THE PERIMETER OF THE DUST BARRIER AND BELOW CEILING PARTITION MUST BE CONTINUOUSLY SEALED FOR THE DURATION OF CONSTRUCTION.
4. DOORS AND FRAMES IN TEMPORARY NON RATED CONSTRUCTION PARTITIONS SHALL HAVE A CLOSER, HAVE POSITIVE LATCHING AND BE LOCKABLE.
5. THE DETAILS, CONFIGURATION AND COMPONENTS MUST BE PRE-APPROVED BY THE AHJ PRIOR TO USE.
6. REPLACE ANY DAMAGED CEILING COMPONENTS TO MATCH EXISTING IN MATERIALS AND FINISH.

4 TEMPORARY NON RATED CONSTRUCTION PARTITION
NOT TO SCALE

GENERAL NOTES:
1. THE CONTRACTOR SHALL MAINTAIN 6'-0" CLEAR IN ALL CORRIDORS AND PASSAGES ALONG THE FULL LENGTH OF THE TEMPORARY CONSTRUCTION BARRIER, ON THE OCCUPIED SIDE.
2. ALL JOINTS SHALL BE TAPED WITH HIGH-TACK TAPE.
3. ALL PENETRATIONS THROUGH AND THE PERIMETER OF THE DUST BARRIER AND BELOW CEILING BARRIER MUST BE CONTINUOUSLY SEALED FOR THE DURATION OF CONSTRUCTION.
4. DOORS AND FRAMES IN TEMPORARY CONSTRUCTION BARRIERS SHALL BE 45 MINUTE RATED, HAVE A CLOSER, HAVE POSITIVE LATCHING AND BE LOCKABLE.
5. THE DETAILS, CONFIGURATION AND COMPONENTS MUST BE PRE-APPROVED BY THE AHJ PRIOR TO USE.
6. REPLACE ANY DAMAGED CEILING COMPONENTS TO MATCH EXISTING IN MATERIALS AND FINISH.

5 TEMPORARY ONE HOUR RATED CONSTRUCTION BARRIER
NOT TO SCALE

GENERAL NOTES:
1. THE CONTRACTOR SHALL MAINTAIN 6'-0" CLEAR IN ALL CORRIDORS AND PASSAGES ALONG THE FULL LENGTH OF THE TEMPORARY CONSTRUCTION BARRIER, ON THE OCCUPIED SIDE.
2. ALL JOINTS SHALL BE TAPED WITH HIGH-TACK TAPE.
3. ALL PENETRATIONS THROUGH AND THE PERIMETER OF THE DUST BARRIER AND BELOW CEILING BARRIER MUST BE CONTINUOUSLY SEALED FOR THE DURATION OF CONSTRUCTION.
4. DOORS AND FRAMES IN TEMPORARY CONSTRUCTION BARRIERS SHALL BE 45 MINUTE RATED, HAVE A CLOSER, HAVE POSITIVE LATCHING AND BE LOCKABLE.
5. THE DETAILS, CONFIGURATION AND COMPONENTS MUST BE PRE-APPROVED BY THE AHJ PRIOR TO USE.
6. REPLACE ANY DAMAGED CEILING COMPONENTS TO MATCH EXISTING IN MATERIALS AND FINISH.

6 TEMPORARY ONE HOUR RATED CONSTRUCTION BARRIER
NOT TO SCALE

This sheet of drawings has not been reviewed for code compliance.

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STATE OF COLORADO GREGORY A. GORE ARC-400615 LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

TEMPORARY CONSTRUCTION DETAILS

A850

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

PROJECT: 45990.00
DATE:

2/17/2023 5:31:50 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/459900_ArchCentralR22.rvt

APPROVED
RSN:1707621 | PERMIT# 23-2315197-LT

Drawn By: Author
Checked By: Checker
Approved By: Approver

DOOR TYPE

F FLUSH

FP FLUSH WITH FLUSH SIDE PANEL

NV NARROW VIEW
990
3"
2'-9"
3'-4"

G GLASS
990
10" MIN
MATCH SIDE DIMENSION

HG HALF GLASS
990
3'-4"
MATCH SIDE DIMENSION

AS AUTOMATIC SINGLE SLIDING
SEE SPECIFICATIONS

AST AUTOMATIC TELE-SCOPING SLIDING
SEE SPECIFICATIONS

990 10" AT DOORS WITH PANIC DEVICE AND/OR DOORS WIDER THAN 4'-0". 6" AT ALL OTHER DOORS

991 DOOR FRAME HEIGHT TO ACCOMMODATE DOOR AND PANEL ABOVE

992 SIDING TRACK SHOULD EXTEND BEYOND WIDTH OF DOOR TO ACHIEVE MAX CLEAR OPENING

GENERAL NOTES FOR DOORS, FRAMES AND HARDWARE

801. SEE THIS SHEET FOR DOOR TYPES, DOOR AND INTERIOR WINDOW FRAME TYPES AND DOOR AND INTERIOR WINDOW FRAME DETAILS.

802. STUDY AND COMPARE THE: DRAWINGS; LEGENDS; NOTES; SPECIFICATIONS; AND DOOR, FRAME & HARDWARE SCHEDULE. REPORT ANY ERROR, INCONSISTENCY OR OMISSION TO ARCHITECT.

803. SEE DESCRIPTION OF THE HARDWARE SETS IN THE SPECIFICATIONS.

804. DOORS IN RATED AND NON-RATED PARTITIONS AND SOUND PARTITIONS MAY BE UNDERCUT ONLY A MAXIMUM OF 3/4 INCH ABOVE THE FINISH FLOOR. THIS 3/4 INCH MAXIMUM GAP ABOVE THE FINISH FLOOR APPLIES FOR THE FULL WIDTH OF THE DOOR IN ITS CLOSED POSITION. DOORS IN THESE PARTITIONS WITH AN UNDERCUT GREATER THAN THIS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

805. SEAL ALL FRAMES CONTINUOUSLY TO WALL. WHERE THERE IS A HORIZONTAL GAP OF 1/8 INCH OR LESS BETWEEN THE DOOR FRAME AND THE ADJACENT FINISH BASE AND/OR FLOOR MATERIAL, INSTALL A PENCIL LINE OF SEALANT BETWEEN THE FRAME AND THE FINISH BASE AND/OR FLOOR MATERIAL. HOWEVER, IF THIS HORIZONTAL GAP IS GREATER THAN 1/8 INCH, THE FINISH BASE AND/OR FLOOR MATERIAL SHALL BE REMOVED AND REINSTALLED TO ELIMINATE THE GAP.

806. IF THERE IS A VERTICAL GAP OF 1/8 INCH OR GREATER BETWEEN THE BOTTOM OF THE DOOR FRAME AND THE FINISH FLOOR, THIS GAP SHALL BE REPAIRED WITH BONDO OR GROUTED SOLID TO PROVIDE TESTED FIRESTOP ASSEMBLY. THIS REPAIR SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 80.

807. DOORS SCHEDULED TO HAVE A FIRE RATING LABEL SHALL HAVE A METAL LABEL PERMANENTLY AFFIXED TO BOTH THE DOOR AND THE FRAME. THE LABELS SHALL NOT BE PAINTED. A VINYL, PLASTIC OR STICKER TYPE LABEL IS NOT ACCEPTABLE; AND A LABEL THAT IS EMBOSSED INTO THE FRAME IS NOT ACCEPTABLE.

808. ALL DOORS THAT PENETRATE RATED ENCLOSURES SURROUNDING STAIRS, STAIR VESTIBULES AND EXIT PASSAGEWAYS SHALL HAVE A TEMPERATURE RISE RATING [TRR] METAL LABEL PERMANENTLY AFFIXED TO THE DOOR.

809. ALL THRESHOLDS SHALL CONFORM TO THE MOST STRINGENT REQUIREMENTS OF THE APPLICABLE ACCESSIBILITY CODES.

810. VERIFY THAT DOOR CLOSERS AND OTHER HARDWARE WILL ALLOW DOOR TO SWING OPEN 180 DEGREES WHEN A 180 DEGREE SWING IS EITHER SHOWN ON THE FLOOR PLAN AND/OR INDICATED IN THE DOOR SCHEDULE.

811. PROVIDE TESTED FIRE RATED GLASS ASSEMBLY IN DOOR LITES OF INTERIOR RATED DOORS. PROVIDE LEAD SAFETY GLASS IN LEAD-LINED DOOR LITE FRAMES IN INTERIOR LEAD-LINED DOORS. PROVIDE BOTH LEAD SAFETY GLASS AND TESTED FIRE RATED GLASS ASSEMBLY IN DOOR LITES OF INTERIOR DOORS WHICH ARE BOTH LEAD-LINED AND FIRE RATED. WHERE INDICATED FOR USE IN NON-RATED DOORS, PROVIDE NON-RATED INTERIOR DOOR LITES WITH INTEGRAL VISUAL OBSCURRING ABILITY UNLESS OTHERWISE NOTED OR REQUIRED BY CODE, PROVIDE 1/4 INCH MINIMUM THICKNESS OF TEMPERED SAFETY GLASS IN ALL OTHER INTERIOR DOOR LITES.

812. VERIFY THE REQUIRED "THROAT WIDTH" FOR EACH DOOR FRAME BASED ON: SIZE OF STUDS; THICKNESS AND NUMBER OF LAYERS OF GYPSUM BOARD, GYPSUM SHEATHING, ETC.; CMU SIZE; CONCRETE WALL THICKNESS; ETC. AFTER TOTALING THE WIDTH OF THE COMPONENTS TO BE INSERTED INTO THE THROAT OF EACH FRAME, ADD AN ADDITIONAL 1/4 INCH TO THE CLEAR "THROAT WIDTH" DIMENSION TO ALLOW FOR CONSTRUCTION TOLERANCES.

813. VERIFY THAT THE THROAT OF EACH FIRE RATED DOOR FRAME WRAPS ONLY AROUND THE RATED PORTION OF THE SCHEDULED PARTITION. NON-RATED PORTIONS OF FURRED OUT PARTITIONS, FURRING STRIPS, WOOD TRIM, WALL PROTECTION, ETC. SHALL NOT BE INSERTED INTO THE THROAT OF A RATED DOOR FRAME.

814. VERIFY THAT ALL REQUIRED COMPONENTS OF THE RATED PARTITIONS ARE INSERTED A MINIMUM OF 1/2 INCH INTO THROAT OF RATED DOOR FRAME TO COMPLY WITH NFPA 80 AND THE LATEST EDITION OF GYPSUM ASSOCIATION GA-600 FIRE RESISTANCE MANUAL.

815. VERIFY THAT ALL RATED DOORS AND FRAMES ARE FIRESTOPPED AFTER DOOR HARDWARE AND SECURITY ITEMS ARE INSTALLED.

816. INSTALLATION OF DOORS, HARDWARE AND FRAMES SHALL COMPLY WITH ALL REQUIREMENTS OF NFPA 80 AND WITH OTHER CODES ENFORCED BY THE AUTHORITIES HAVING JURISDICTION.

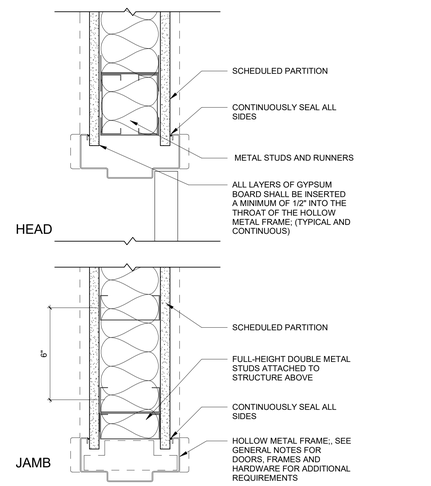
817. FOR ALL EXTERIOR DOORS COMPLY WITH REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION; CODE REQUIREMENTS RELATED TO HIGH VELOCITY WIND ZONES; SPECIFICATIONS; AND NFPA 80.

ABBREVIATIONS:

FIRE GL	FIRE RATED GLASS
HM-LL	HOLLOW METAL - LEAD LINED
LAM GL	LAMINATED SAFETY GLASS
LEAD; LEAD GL	LEAD SAFETY GLASS
LS	LIGHT SEALS
PR	PAIR OF DOORS
SOUND	SOUNDS DOOR (FLUSH DOOR TYPE)
TRR	TEMPERATURE RISE RATING
WD-LL	WOOD DOOR - LEAD LINED

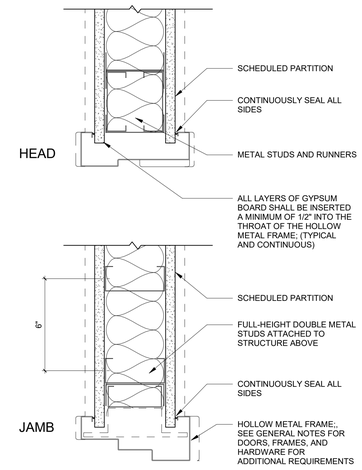
DOOR, FRAME & HARDWARE SCHEDULE

SPACE NO. / DOOR DESIGNATION	FROM ROOM	TO ROOM	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICK	DOOR DESCRIPTION MAT'L	DOOR DESCRIPTION TYPE	DOOR DESCRIPTION GLASS	FRAME DESCRIPTION MAT'L	FRAME DESCRIPTION TYPE	DETAILS	FIRE RATING (MINUTES)	Hardware Set	REMARKS
3-110A	CORR	CORR	7'-4"	7'-0"	1 3/4"	WD	NV	RATED	HM	DE	2/A900	20 MIN	011F	EMHO
3-130A	CORR	CORR	7'-4"	7'-0"	1 3/4"	WD	NV	RATED	HM	DE	2/A900	20 MIN	011F	EMHO
3-241A	CORR	ICU 41	7'-0"	7'-0"	2"	ALUM.	MS	TEMP	ALUM	N/A			110C	
3-241B	TLT	ICU 41	3'-0"	7'-0"	1 3/4"	WD	F		HM	S	1/A900		002A	
3-242A	ICU 42	CORR	7'-0"	7'-0"	2"	ALUM.	MS	TEMP	ALUM	N/A			110C	
3-242B	ICU 42	TLT	3'-0"	7'-0"	1 3/4"	WD	F		HM	S	1/A900		002A	
3-243A	ICU 43	CORR	7'-0"	7'-0"	2"	ALUM.	MS	TEMP	ALUM	N/A			110C	
3-243B	TLT	ICU 43	3'-0"	7'-0"	1 3/4"	WD	F		HM	S	1/A900		002A	
3-244A	ICU 44	CORR	7'-0"	7'-0"	2"	ALUM.	MS	TEMP	ALUM	N/A			110C	
3-244B	ICU 44	TLT	3'-0"	7'-0"	1 3/4"	WD	F		HM	S	1/A900		002A	
3-245A	ICU 45	CORR	7'-0"	7'-0"	2"	ALUM.	MS	TEMP	ALUM	N/A			110C	
3-245B	TLT	ICU 45	3'-0"	7'-0"	1 3/4"	WD	F		HM	S	1/A900		002A	
3-246A	ICU 46	CORR	7'-0"	7'-0"	2"	ALUM.	MS	TEMP	ALUM	N/A			110C	
3-246B	TLT	ICU 46	3'-0"	7'-0"	1 3/4"	WD	F		HM	S	1/A900		002A	
3-247A	ICU 47	CORR	7'-0"	7'-0"	2"	ALUM.	MS	TEMP	ALUM	N/A			110C	
3-247B	ICU 47	TLT	3'-0"	7'-0"	1 3/4"	WD	F		HM	S	1/A900		002A	
3-248A	CORR	ICU 48	7'-0"	7'-0"	2"	ALUM.	MS	TEMP	ALUM	N/A			110C	
3-248B	TLT	ICU 48	3'-0"	7'-0"	1 3/4"	WD	F		HM	S	1/A900		002A	
3-249A	ICU 49	CORR	7'-0"	7'-0"	2"	ALUM.	MS	TEMP	ALUM	N/A			110C	
3-249B	ICU 49	TLT	3'-0"	7'-0"	1 3/4"	WD	F		HM	S	1/A900		002A	
3-250A	CORR	ICU 50	7'-0"	7'-0"	2"	ALUM.	MS	TEMP	ALUM	N/A			110C	
3-250B	TLT	ICU 50	3'-0"	7'-0"	1 3/4"	WD	F		HM	S	1/A900		002A	
3-251A	ICU 51	CORR	7'-0"	7'-0"	2"	ALUM.	MS	TEMP	ALUM	N/A			110C	
3-251B	ICU 51	TLT	3'-0"	7'-0"	1 3/4"	WD	F		HM	S	1/A900		002A	
3-252A	CORR	ICU 52	7'-0"	7'-0"	2"	ALUM.	MS	TEMP	ALUM	N/A			110C	
3-252B	TLT	ICU 52	3'-0"	7'-0"	1 3/4"	WD	F		HM	S	1/A900		002A	
3-311A	RT STOR	CORR	3'-0"	7'-0"	1 3/4"	WD	HG	TEMP	HM	S	1/A900		007D	
3-312A	NURSE WORK	MEDS	3'-0"	7'-0"	1 3/4"	WD	HG	TEMP	HM	S	1/A900		009A	CR
3-315A	CORR	SUPPLY STORAGE	4'-0"	7'-0"	1 3/4"	WD	F		HM	S	1/A900	45 MIN	009B	CR
3-315B	CORR	SUPPLY STORAGE	4'-0"	7'-0"	1 3/4"	WD	F		HM	S	1/A900	45 MIN	009B	CR
3-316A	CORR	EQUIP STOR	4'-0"	7'-0"	1 3/4"	WD	HG	RATED	HM	S	1/A900	45 MIN	009B	CR



GENERAL NOTES:
1. SEE DOOR SCHEDULE AND/OR DOOR FRAME TYPES FOR FRAME SIZE.
2. SEE WALLS/PARTITIONS/BARRIERS SHEET FOR WALL TYPES AND OVERALL WALL THICKNESS.
3. SEE FINISH SCHEDULE FOR WALL AND FRAME FINISH REQUIREMENTS.

1 DOOR FRAME IN GYPSUM BOARD
NOT TO SCALE



GENERAL NOTES:
1. SEE DOOR SCHEDULE AND/OR DOOR FRAME TYPES FOR FRAME SIZE.
2. SEE WALLS/PARTITIONS/BARRIERS SHEET FOR WALL TYPES AND OVERALL WALL THICKNESS.
3. SEE FINISH SCHEDULE FOR WALL AND FRAME FINISH REQUIREMENTS.

2 DOUBLE EGRESS DOOR FRAME IN GYPSUM BOARD
NOT TO SCALE

FRAME TYPES

S SINGLE DOOR FRAME

D DOUBLE DOOR FRAME

DE DOUBLE EGRESS FRAME

C CASED OPENING FRAME

V1 SEE WINDOW SCHED.
MATCH DOOR HGT
SEE WINDOW SCHEDULE

GENERAL NOTES FOR INTERIOR WINDOW AND FRAMES

901. SEE THESE SHEETS FOR DOOR AND INTERIOR WINDOW FRAME TYPES AND DOOR AND INTERIOR WINDOW FRAME DETAILS.

902. STUDY AND COMPARE THE DRAWINGS, LEGENDS, NOTES, SPECIFICATIONS AND INTERIOR WINDOW SCHEDULE. REPORT ANY ERROR, INCONSISTENCY OR OMISSION TO ARCHITECT.

903. IF THE WINDOW FRAME EXTENDS TO THE FLOOR, AND THERE IS A VERTICAL GAP OF 1/8 INCH OR GREATER BETWEEN THE BOTTOM OF THE WINDOW FRAME AND THE FINISH FLOOR, THIS GAP SHALL BE REPAIRED WITH BONDO OR GROUTED SOLID TO PROVIDE TESTED FIRESTOP ASSEMBLY. THIS REPAIR SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 80.

904. SEAL ALL FRAMES CONTINUOUSLY TO WALL. IF THE WINDOW FRAME EXTENDS TO THE FLOOR, AND THERE IS A HORIZONTAL GAP OF 1/8 INCH OR LESS BETWEEN THE WINDOW FRAME AND THE ADJACENT FINISH BASE AND/OR FLOOR MATERIAL, INSTALL A PENCIL LINE OF SEALANT BETWEEN THE FRAME AND THE FINISH BASE AND/OR FLOOR MATERIAL. HOWEVER, IF THIS HORIZONTAL GAP IS GREATER THAN 1/8 INCH, THE FINISH BASE AND/OR FLOOR MATERIAL SHALL BE REMOVED AND REINSTALLED TO ELIMINATE THE GAP.

905. ALIGN TOP OF INTERIOR WINDOW FRAMES WITH THE TOP OF DOOR FRAMES FOR 7'- 0" HEIGHT DOORS UNLESS OTHERWISE NOTED.

906. MOUNT THE METAL GLAZING STOPS WITHIN THE FRAMES ON THE INSIDE OF EACH SPACE, EXCEPT THAT THE STOPS SHALL BE MOUNTED ON THE OUTSIDE OF THE FRAMES AT STERILE AND/OR CLEAN SPACES.

907. PROVIDE TESTED FIRE RATED GLASS ASSEMBLY IN WINDOWS LOCATED IN INTERIOR RATED PARTITIONS. PROVIDE LEAD SAFETY GLASS IN LEAD-LINED WINDOW FRAMES IN INTERIOR LEAD-LINED PARTITIONS. PROVIDE BOTH LEAD SAFETY GLASS AND TESTED FIRE RATED GLASS ASSEMBLY IN WINDOWS LOCATED IN INTERIOR PARTITIONS THAT ARE BOTH LEAD-LINED AND FIRE RATED. WHERE INDICATED FOR USE IN NON-RATED PARTITIONS, PROVIDE INTERIOR WINDOWS WITH INTEGRAL BLINDS SANDWICHED BETWEEN TWO LAYERS OF 1/4 INCH MINIMUM THICKNESS OF TEMPERED SAFETY GLASS. UNLESS OTHERWISE NOTED OR REQUIRED BY CODE, INSTALL 1/4 INCH MINIMUM THICKNESS OF TEMPERED SAFETY GLASS IN ALL OTHER INTERIOR WINDOWS. COMPLY WITH THE FOLLOWING: ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURSIDICATION; SPECIFICATIONS; AND NFPA 80.

908. VERIFY THE REQUIRED THROAT WIDTH FOR EACH INTERIOR WINDOW FRAME BASED ON THE SCHEDULED PARTITION. ADD AN ADDITIONAL 1/4 INCH TO THE CLEAR THROAT WIDTH DIMENSION TO ALLOW FOR CONSTRUCTION TOLERANCES.

909. VERIFY THAT THE THROAT OF EACH WINDOW FRAME IN A RATED IINTERIOR PARTITON WRAPS ONLY AROUND THE RATED PORTION OF THE INTERIOR PARTITION. NON-RATED PORTIONS OF THE FURRED-OUT PARTITIONS, FURRING STRIPS, WOOD TRIM, WALL PROTECTION, ETC. SHALL NOT BE INSERTED INTO THE THROAT OF AN INTERIOR RATED WINDOW FRAME.

910. VERIFY THAT ALL REQUIRED COMPONENTS OF THE RATED PARTITON ARE INSERTED A MINIMUM OF 1/2 INCH INTO THE THROAT OF EACH INTERIOR WINDOW FRAME TO COMPLY WITH NFPA 80 AND WITH THE LATEST EDITION OF GYPSUM ASSOCIATION'S GA-600 FIRE RESISTANCE DESIGN MANUAL.

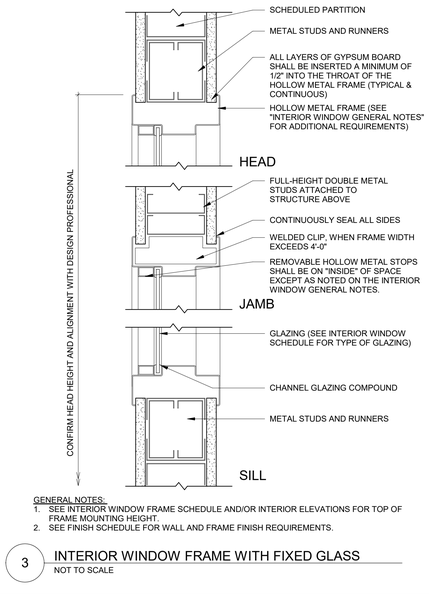
911. PROVIDE AND INSTALL BOTH THE OPERABLE WINDOW HARDWARE AND THE OPERATING HARDWARE FOR INTEGRAL BLINDS TO COMPLY WITH THE MOST STRINGENT REQUIREMENTS OF THE APPLICABLE ACCESSIBILITY CODES.

ABBREVIATIONS:

DG	DECORATIVE GLASS - REFER TO SPECIFICATIONS
FIRE GL	FIRE RATED GLASS
HM-LL	HOLLOW METAL - LEAD LINED
LAM GL	LAMINATED SAFETY GLASS

INTERIOR WINDOW SCHEDULE

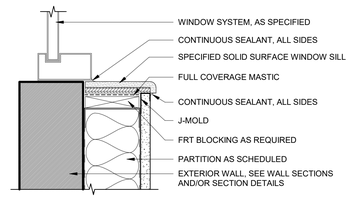
Mark	GLAZING WIDTH	GLAZING HEIGHT	GLAZING	FRAME MAT'L	FRAME TYPE	DETAILS	FIRE RATING	REMARKS
01	2'-2 1/2"	3'-6"	TEMP	HM	V1	3/A900		INTEGRAL BLINDS



GENERAL NOTES:
1. SEE INTERIOR WINDOW FRAME SCHEDULE AND/OR INTERIOR ELEVATIONS FOR TOP OF FRAME MOUNTING HEIGHT.
2. SEE FINISH SCHEDULE FOR WALL AND FRAME FINISH REQUIREMENTS.

3 INTERIOR WINDOW FRAME WITH FIXED GLASS
NOT TO SCALE

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Y. Munoz
Date: Jun 29, 2023
2021 INTERNATIONAL CODES & 2020 NEC



4 SOLID SURFACE WINDOW SILL
NOT TO SCALE

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GreshamSmith.com

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STATE OF COLORADO
GREGORY A. GORE
ARC-400615
LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA

1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

DOOR, FRAME, & HARDWARE GENERAL INFO

A900

PROJECT: 45990.00
DATE:

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

2/17/2023 5:31:54 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/459900_ArchCentralR22.rvt

APPROVED
RSN:1707621 | PERMIT# 23-2315197-LT

Drawn By: Author
Checked By: Checker
Approved By: Approver

INTERIOR DESIGN GENERAL NOTES

A. GENERAL INFORMATION

1. THE CONTRACTOR SHALL NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE DESIGNER BEFORE CONTINUING WITH WORK.

2. THE CONTRACTOR SHALL NOTIFY THE DESIGNER OF ITEMS REQUIRING FINISH SELECTIONS THAT ARE NOT CLARIFIED IN THE CONTRACT DOCUMENTS.

3. THE CONTRACTOR SHALL NOTIFY THE DESIGNER IF ANY WORK INDICATED IN THE CONTRACT DOCUMENTS CAN NOT BE PERFORMED DUE TO EXISTING FIELD CONDITIONS.

4. SEE SPECIFICATIONS IN THE PROJECT MANUAL FOR ADDITIONAL INFORMATION.

5. FOR ROOM WALL FINISH DISTRIBUTION AND LOCATIONS, REFER TO INTERIOR ELEVATIONS.

6. HCA PROJECTS - FOR SPECIAL PRICING CONSIDERATIONS, SEE VENDOR LIST FOR MANUFACTURER'S REPRESENTATIVE.

B. RESILIENT SHEET FLOORING

1. SEE INTERIOR DESIGN DRAWINGS FOR FLOOR PATTERN PLANS. FLOOR PATTERN SHOP DRAWINGS MUST BE SUBMITTED FOR APPROVAL.

2. VERIFY THAT ALL SEAMS ARE PROPERLY MATCHED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR SHEET VINYLS WHICH HAVE A PATTERN REPEAT,

3. SEE FINISH LISTING FOR WELDING ROD COLOR.

TESTING:	ASTM E648: CLASS 1, 0.45 watts/cm² OR GREATER ASTM E662: CLASS A: 0-450

C. TILING (CERAMIC/PORCELAIN PAVER TILE AND GROUT)

1. REFER TO THE INTERIOR ELEVATIONS AND SPECIFICATIONS FOR TILE INFORMATION.

2. ALL INSIDE CORNERS, OUTSIDE CORNERS, AND EXPOSED ENDS OF TILE SHALL RECEIVE ALUMINUM 'SCHLUTER JOLLY' TRIM AS NOTED IN DRAWINGS AND SPECIFICATIONS.

3. WHEN WALL TILE IS SPECIFIED IN A ROOM WITH INTEGRAL BASE, THE WALL TILE SHALL BE INSTALLED TO START DIRECTLY ABOVE THE INTEGRAL BASE TOP CAP.

TESTING WALL FINISH TESTING:	ASTM E84: CLASS A FLAME SPREAD INDEX: 0-25 SMOKE DEVELOPED INDEX: 0-450

E. FLOOR TRANSITIONS

1. ALL FLOORING TRANSITIONS SHALL OCCUR AT THE CENTERLINE OF ALL DOORS, UNLESS OTHERWISE DESIGNATED BY FLOOR TRANSITION SYMBOLS ON INTERIOR DESIGN DRAWINGS.

2. SEE SPECIFICATIONS FOR CLARIFICATION OF FLOORING TRANSITIONS.

3. REFER TO THE INTERIOR DESIGN DRAWINGS FOR FLOOR TRANSITIONS DETAILS.

G. RESILIENT AND INTEGRAL BASE

1. REFER TO THE FINISH LISTING FOR HEIGHTS OF INTEGRAL BASE. REFER TO DETAILS FOR INTEGRAL BASE, SEAL TOP OF BASE CAP TO WALL REFER TO SPECIFICATIONS FOR SEALANT INFORMATION.

TESTING:	ASTM E648: CLASS 1, 0.45 watts/cm² OR GREATER ASTM E662: CLASS A: 0-450

I. INTERIOR PAINTING

1. IF ADJACENT WALL IS SCHEDULED TO HAVE A PAINT FINISH, PAINT VERTICAL AND HORIZONTAL SURFACES OF BULKHEADS AND SOFFITS TO MATCH WALL PAINT FINISH, UNLESS OTHERWISE NOTED.

2. WALLS IN ALL SPACES WITH EXPOSED CEILINGS SHALL BE PAINTED UP TO THE UNDERSIDE OF FLOOR/ROOF SLAB ABOVE.

3. ALL METAL SUBSTRATES SHALL BE PRIMED AND PAINTED TO A SMOOTH FINISH.

4. WALLS IN STORAGE, SUPPLY AND EQUIPMENT ROOMS SHALL HAVE A CONTINUOUS, 2" TALL, RED, HORIZONTAL LINE PAINTED 18" OC BELOW THE FINISHED CEILING WITH THE WORDS "NO STORAGE ABOVE THIS LINE" PAINTED ON EACH WALL, IN 4" TALL, RED, CAPITAL LETTERS.

5. DO NOT USE EPOXY PAINT ON THE INTERIOR SIDE OF AN EXTERIOR WALL. REFER TO THE PROJECT MANUAL SPECIFICATION SECTION.

TESTING:	ASTM E84: CLASS A FLAME SPREAD: 0-25 SMOKE DEVELOPED: 0-450 NFPA 286: PASSES

J. WINDOWS, DOORS, DOOR FRAMES, ACCESS DOORS, ETC.

1. CONTRACTOR SHALL PAINT ALL METAL ACCESS DOORS, UTILITY WALL COVERS, ELECTRICAL PANELS, ETC. TO MATCH ADJACENT WALL COLOR.

2. INTERIOR HOLLOW METAL DOORS, DOOR FRAMES, WINDOW FRAMES AND VIEW WINDOW FRAMES SHALL BE PAINTED **SG-X**.

3. FINISH FOR LAMINATE CLAD DOORS SHALL BE PL-1. MATCH EXISTING PLASTIC LAMINATE DOORS. CONFIRM MANUFACTURUER, COLOR AND FINISH WITH FACILITIES DIRECTOR.

4. AT ALL EXTERIOR AND INTERIOR WINDOWS, THE CONTRACTOR SHALL INSTALL REINFORCEMENT WHERE BLINDS AND OR SHADES ARE INDICATED. REFER TO THE INTERIOR DESIGN FURNITURE PLANS.

5. EXTERIOR WINDOW SILLS SHALL BE SOLID SURFACE TO MATCH EXISTING. REFER TO ARCHITECTURAL DETAILS.

L. INTERIOR ARCHITECTURAL CASEWORK/MILLWORK

1. SEE INTERIOR ELEVATIONS FOR SPECIFIC FINISHES.

2. SEE SPECIFICATIONS FOR HARDWARE REQUIREMENTS.

3. COORDINATE EQUIPMENT SHOWN TO BE PLACED INSIDE OR ON TOP OF CASEWORK, INCLUDING EQUIPMENT DIMENSIONS, WEIGHT, WATER, DRAIN AND POWER AND/OR DATA REQUIREMENTS.

TESTING FOR GENERAL PURPOSE:	ASTM E84: CLASS B FLAME SPREAD: 26-75 SMOKE DEVELOPED INDEX: 0-450
SOLID SURFACE TESTING:	ASTM E84: CLASS A FLAME SPREAD INDEX: 0-25 SMOKE DEVELOPED INDEX: 0-450

M. CEILINGS

1. GYPSUM BOARD CEILINGS IN THE ICU PATIENT TOILETS SHALL RECEIVE EPOXY PAINT.

2. PAINT GYPSUM BOARD CEILINGS SHERWIN WILLIAMS, SW7006, EXTRA WHITE, UNLESS OTHERWISE NOTED.

TESTING:	ASTM E84: CLASS A FLAME SPREAD INDEX: 0-25 SMOKE DEVELOPED INDEX: 0-450 NFPA 286: PASSES

O. WALL AND DOOR PROTECTION

1. MOUNTING HEIGHTS FOR WALL PROTECTION ARE AS FOLLOWS:
   A. CHAIR/RUB RAIL: COORDINATE WITH DESIGNER AND FURNITURE SPECIFICATIONS.
   B. HANDRAIL: 34" MINIMUM - 38" MAXIMUM AFF TO TOP OF HANDRAIL. MATCH EXISTING HEIGHT.
   C. CRASH RAILS: MATCH EXISTING HEIGHT.
   D. SEE DETAILS.

2. PROVIDE REINFORCEMENT IN WALLS TO SUPPORT HANDRAILS. BUMPER GUARDS AND CRASH RAILS. SEE DETAILS AND SPECIFICATIONS.

3. HANDRAILS, CRASH RAILS AND BUMPER GUARDS SHALL TERMINATE 2" AWAY FROM FIRE EXTINGUISHER CABINETS, CORNER GUARDS, DOOR FRAMES, ETC.

4. IMPACT WALL PROTECTION SHEETING TO BE INSTALLED AS SHOWN ON INTERIOR DESIGN DRAWINGS, WITH ANTI-MICROBIAL ADHESIVE, NO EXPOSED FASTENERS AND NOT TO INTERFERE WITH ANY UTILITY DEVICES.

5. IMPACT WALL PROTECTION SHEETING SHALL NOT BE INSTALLED TO THE FLOOR WHERE BASE IS SPECIFIED. REFER TO MANUFACTURER REQUIREMENTS AND/OR STANDARD DETAILS.

6. IMPACT WALL PROTECTION SHEETING SHALL NOT BE INSTALLED ON EXTERIOR WALLS.

TESTING:	ASTM E84: CLASS A FLAME SPREAD: 0-25 SMOKE DEVELOPED: 0-450 NFPA 286: PASSES

Q. CONTRACTOR FURNISHED AND INSTALLED ITEMS (C.F.C.I.)

1. MARKER BOARDS. SEE INTERIOR DESIGN FURNITURE PLANS.

R. OWNER FURNISHED AND VENDOR INSTALLED ITEMS (O.F.V.I.)

1. HORIZONTAL BLINDS
2. ROLLER SHADES
3. MOVABLE FURNITURE
4. SHOWER CURTAINS
5. CUBICLE CURTAINS
6. ARTWORK

S. OWNER FURNISHED AND CONTRACTOR INSTALLED ITEMS (O.F.C.I.)

1. TOILET PAPER DISPENSERS - SEE SPECS.
2. PAPER TOWEL DISPENSERS - SEE SPECS.
3. SOAP DISPENSERS - SEE SPECS.

INTERIOR DESIGN FINISH LEGEND

TILE (CERAMIC/PORCELAIN, ETC & GROUT)

T-1	MFR:	DALTILE
	PATT:	COLOR WHEEL COLLECTION - CLASSIC
	COLOR:	WHITE 0100
	SIZE:	3"X6"
	THICK:	5/16"
	FINISH:	SEMI-GLOSS
	GROUT:	EPOXY GROUT TO BE SELECTED FROM MANUFACTURER'S FULL RANGE. SEE SPEC SECTION 09 3000.
	INSTALL:	RUNNING BOND ONE-THIRD OFFSET

RESILIENT SHEET FLOORING

SV-1	MFR:	MANNINGTON
	PATT:	BLOOM/WELLSPRING
	COLOR:	WALKABOUT (B307)
	WELD:	TO MATCH
SV-2	MFR:	MANNINGTON
	PATT:	ASSURANCE III
	COLOR:	DAPPLE GRAY
	WELD:	TO MATCH

LUXURY VINYL TILE

LVT-1	MFR:	MANNINGTON COMMERCIAL
	PATT:	DIVERGENT/FEN
	COLOR:	CUMULUS
	SIZE:	18X18
	INSTALL:	OFFSET
LVT-2	MFR:	MANNINGTON COMMERCIAL
	PATT:	DIVERGENT/FEN
	COLOR:	SPARTINA
	SIZE:	18X18
	INSTALL:	OFFSET

RESILIENT BASE

RB-1	MFR:	MANNINGTON
	COLOR:	TO BE SELECTED FROM MANUFACTURER'S FULL RANGE
	HEIGHT:	4"

INTEGRAL COVED BASE

IB-1	COLOR:	SHALL MATCH SPECIFIED FLOORING
	HEIGHT:	4"
	NOTES:	SEE SPECIFICATION SECTION
IB-2	COLOR:	SHALL MATCH SPECIFIED FLOORING
	HEIGHT:	6"
	NOTES:	SEE SPECIFICATION SECTION

INTERIOR PAINTING (WALL)

P (EG-SHEL) / SG (SEMI-GLOSS) / EP (EPOXY) / FLP (FLAT)

P/SG/EP-1	MFR:	SHERWIN WILLIAMS
	COLOR:	SW7030 ANEW GRAY
P/SG/EP-2	MFR:	SHERWIN WILLIAMS
	COLOR:	SW9140 BLUSTERY SKY
P/SG/EP-3	MFR:	SHERWIN WILLIAMS
	COLOR:	SW7660 EARL GREY

PLASTIC LAMINATE

PL-1	MFR:	MATCH EXISTING
	COLOR:	MATCH EXISTING
	FINISH:	MATCH EXISTING
	NOTE:	CONFIRM EXISTING DOOR AND CASEWORK LAMINATE WITH FACILITIES DIRECTOR.

SOLID SURFACE MATERIAL

SS-1	MFR:	CORIAN
	COLOR:	SUMMIT WHITE

ACOUSTICAL CEILING PANEL

SEE SPEC SECTION 09-5113 FOR GRID AND CEILING SYSTEM SCHEDULE.
SEE REFLECTED CEILING PLANS FOR LOCATION OF CEILING SYSTEMS.

AT-1	ACOUSTICAL CEILING PANEL	
	MFR:	ARMSTRONG
	PATT:	1938 ULTIMA HEALTHZONE
	SIZE:	24X48
	COLOR:	WHITE
AT-2	ACOUSTICAL CEILING PANEL	
	MFR:	ARMSTRONG
	PATT:	868 CLEAN ROOM VL
	SIZE:	24X48
	COLOR:	WHITE
AT-3	ACOUSTICAL CEILING PANEL	
	MFR:	ARMSTRONG
	PATT:	1729 FINE FISSURED, SQUARE LAY IN
	SIZE:	24X48
	COLOR:	WHITE
AT-4	ACOUSTICAL CEILING PANEL	
	MFR:	ARMSTRONG
	PATT:	3115 OPTIMA ; HEALTHZONE, HIGH NRC SQUARE LAY IN
	SIZE:	24"X48"
	COLOR:	ARMSTRONG; 15/16" PRELUDE

WALL AND DOOR PROTECTION

CG-1	CORNER GUARD	
	MFR:	INPRO
	MODEL:	150BN
	COLOR:	ANTIQUE WHITE 0104
	HEIGHT:	4' UNLESS OTHERWISE NOTED, 3" WIDE
CG-2	END WALL GUARD	
	MFR:	INPRO
	MODEL:	150D
	COLOR:	ANTIQUE WHITE 0104
	HEIGHT:	4' UNLESS OTHERWISE NOTED, 3" WIDE
HR-1	HANDRAIL	
	MFR:	INPRO
	MODEL:	1200
	COLOR:	ANTIQUE WHITE 0104
CR-1	CRASH RAIL	
	MFR:	INPRO
	MODEL:	1300 WALL GUARD
	COLOR:	ANTIQUE WHITE 0104
IWP-1	IMPACT WALL PANELS	
	MFR:	INPRO
	MODEL:	PALLADIUM RIGID SHEET
	COLOR:	ANTIQUE WHITE 0104
	HEIGHT:	4'
BG-1	VERTICAL BUMPERGUARD	
	MFR:	INPRO
	MODEL:	1300 WALL GUARD
	COLOR:	ANTIQUE WHITE 0104

BATTERY OPERATED CLOCKS

CL-1	MFR:	PETER PEPPER PRODUCTS
	MODEL:	343
	SIZE:	11-3/4" DIAMETER

MARKERBOARDS

MB-1	MARKERBOARD	
	MFR:	EAGAN
	MODEL:	DIMENSION STEEL
	FRAME:	FRAMELESS
	SIZE:	36" WIDE BY 24" HIGH
	NOTE:	SEE FURNITURE PLAN

TACKBOARDS

TKB-1	MFR:	EAGAN
	MODEL:	DIMENSION TACK BOXCORE
	FRAME:	FRAMELESS
	SIZE:	36" WIDE BY 24" HIGH
	NOTE:	SEE FURNITURE PLAN

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Jun 29, 2023*
2021 INTERNATIONAL CODES & 2020 NEC

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HCA Constr. Mgr.: Marc Brisebois

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STATE OF COLORADO
GREGORY A. GORE
ARC.402615
LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

INTERIOR DESIGN GENERAL NOTES AND FINISH LISTING

I000

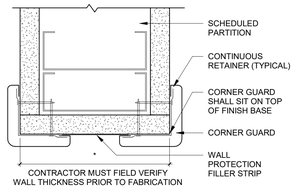
PROJECT: 45990.00
DATE:

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

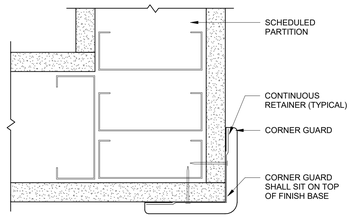
2/17/2023 5:32:22 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/459900_ArchCentralR22.rvt

APPROVED
RSN:1707621 | PERMIT# 23-2315197-LT

Drawn By: Author
Checked By: Checker
Approved By: Approver



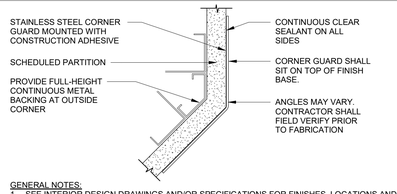
"A" CORNER GUARDS AT END WALL



"B" CORNER GUARD

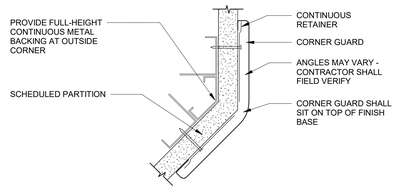
GENERAL NOTES:
1. SEE INTERIOR DESIGN DRAWINGS AND/OR SPECIFICATIONS FOR COLORS, LOCATIONS AND HEIGHTS OF CORNER GUARDS.
2. SEAL ALL PARTITION PENETRATIONS TO MAINTAIN PARTITION INTEGRITY.

1 CORNER GUARDS
NOT TO SCALE



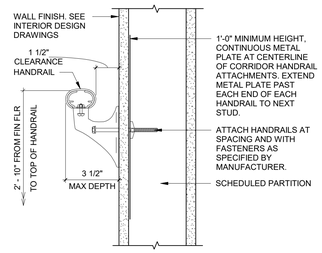
GENERAL NOTES:
1. SEE INTERIOR DESIGN DRAWINGS AND/OR SPECIFICATIONS FOR FINISHES, LOCATIONS AND HEIGHTS OF CORNER GUARDS.
2. SEE INTERIOR DESIGN DRAWINGS FOR WALL FINISH, ADHESIVE MUST BE COMPATIBLE.
3. PROVIDE SEALANT BETWEEN TOP OF BASE AND BOTTOM OF CORNER GUARD AT INTEGRAL COVED BASE.

2A STAINLESS STEEL CORNER GUARD AT ANGLED WALL
NOT TO SCALE



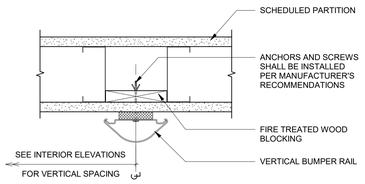
GENERAL NOTES:
1. SEE INTERIOR DESIGN DRAWINGS AND/OR SPECIFICATIONS FOR COLORS, LOCATIONS AND HEIGHTS OF CORNER GUARDS.
2. SEAL ALL PARTITION PENETRATIONS TO MAINTAIN PARTITION INTEGRITY.

2B CORNER GUARD AT ANGLED WALL
NOT TO SCALE



GENERAL NOTES:
1. SEE THE INTERIOR DESIGN DRAWINGS AND/OR SPECIFICATIONS FOR COLORS AND LOCATIONS OF WALL PROTECTION.
2. COMPLY WITH THE APPLICABLE BUILDING CODE FOR STRUCTURAL LOADING REQUIREMENTS.
3. SEAL ALL PARTITION PENETRATIONS TO MAINTAIN PARTITION INTEGRITY.
4. SEE THE INTERIOR DESIGN DRAWINGS FOR WALL FINISHES, PROVIDE TRIM PIECE, ALIGNED WITH BOTTOM OF HANDRAIL SUPPORT IF WALL PROTECTION IS SPECIFIED.

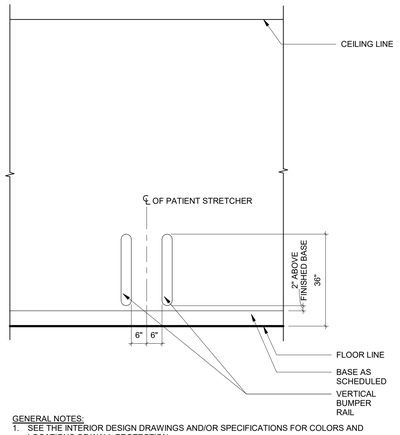
3 HANDRAIL
NOT TO SCALE



PLAN VIEW

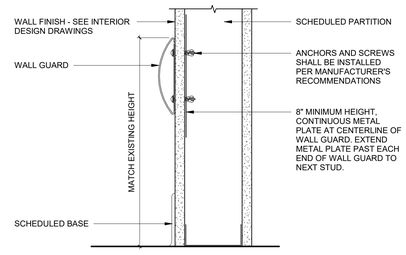
GENERAL NOTES:
1. SEE THE INTERIOR DESIGN DRAWINGS AND/OR SPECIFICATIONS FOR COLORS AND LOCATIONS OF WALL PROTECTION.
2. SEAL ALL PARTITION PENETRATIONS TO MAINTAIN PARTITION INTEGRITY.

4 VERTICAL BUMPER RAIL
NOT TO SCALE



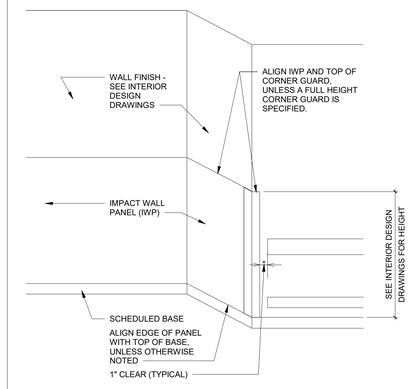
GENERAL NOTES:
1. SEE THE INTERIOR DESIGN DRAWINGS AND/OR SPECIFICATIONS FOR COLORS AND LOCATIONS OF WALL PROTECTION.
2. SEAL ALL PARTITION PENETRATIONS TO MAINTAIN PARTITION INTEGRITY.

5 VERTICAL BUMPER RAIL TYPICAL ELEVATION
NOT TO SCALE



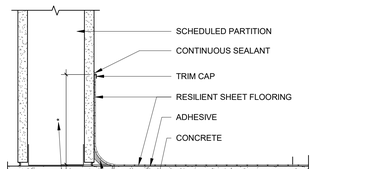
GENERAL NOTES:
1. SEE THE INTERIOR DESIGN DRAWINGS AND/OR SPECIFICATIONS FOR COLORS AND LOCATIONS OF WALL PROTECTION.
2. SEAL ALL PARTITION PENETRATIONS TO MAINTAIN PARTITION INTEGRITY.

6 LOW WALL GUARD
NOT TO SCALE



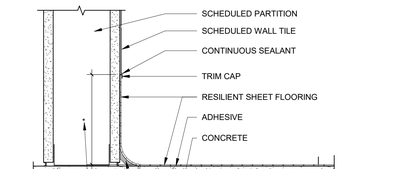
GENERAL NOTES:
1. SEE THE INTERIOR DESIGN DRAWINGS AND/OR SPECIFICATIONS FOR COLORS, LOCATIONS AND HEIGHTS OF WALL PROTECTION.
2. CORNER GUARDS SHALL SIT ON TOP OF SCHEDULED BASE.
3. PROVIDE SEALANT AT TOP OF INTEGRAL BASE AND BOTTOM OF STAINLESS STEEL CORNER GUARDS.
4. PROVIDE CONTINUOUS SEALANT AT PERIMETER OF ALL IMPACT WALL PANELS AND/OR TRIM PIECES.
5. SEAL ALL PARTITION PENETRATIONS TO MAINTAIN PARTITION INTEGRITY.
6. IF IWP IS FIELD CUT, THE CUT SIDE SHALL ALWAYS BE INSTALLED AT THE BOTTOM OF THE WALL.

7 WALL PROTECTION AT INSIDE AND/OR OUTSIDE CORNERS
NOT TO SCALE



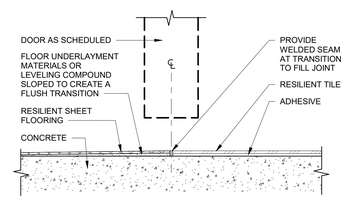
GENERAL NOTE:
SEE INTERIOR DESIGN DRAWINGS AND/OR SPECIFICATIONS FOR COLORS, MATERIALS AND LOCATIONS OF TRANSITION STRIP AND/OR SPECIFIED FLOORING.

8 RESILIENT SHEET FLOORING WITH INTEGRAL COVED BASE
NOT TO SCALE



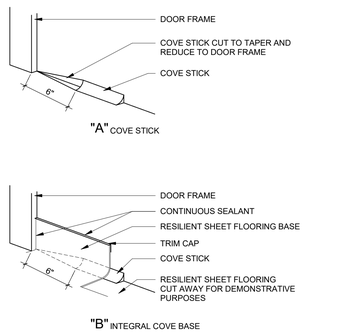
GENERAL NOTE:
SEE INTERIOR DESIGN DRAWINGS AND/OR SPECIFICATIONS FOR COLORS, MATERIALS AND LOCATIONS OF TRANSITION STRIP AND/OR SPECIFIED FLOORING.

9 RESILIENT INTEGRAL BASE WITH WALL TILE ABOVE
NOT TO SCALE



GENERAL NOTES:
1. SEE INTERIOR DESIGN DRAWINGS AND/OR SPECIFICATIONS FOR COLORS, MATERIALS AND LOCATIONS OF TRANSITION STRIP AND/OR SPECIFIED FLOORING.
2. FLOORING TRANSITION SHALL BE LOCATED UNDER THE DOOR WHERE THE TRANSITION IS NOT VISIBLE OUTSIDE THE ROOM WHEN THE DOOR IS CLOSED.
3. ADHESIVE MUST BE COMPATIBLE WITH THE SPECIFIED FLOORING
4. TRANSITION STRIP MUST BE COMPLIANT WITH THE APPLICABLE ACCESSIBILITY CODES
5. FLOOR UNDERLAYMENT AND/OR LEVELING COMPOUND MUST ALLOW INSTALLED FLOORING TO BE COMPLIANT WITH THE APPLICABLE ACCESSIBILITY CODES.
6. ALL FLOORING TRANSITION EDGES MUST BE STRAIGHT, CLEAN EDGES INSTALLED ON SUBSTRATES THAT ARE CLEAN, FREE OF DUST AND DEBRIS AND MEET THE MANUFACTURERS MOISTURE LEVEL REQUIREMENTS.

10 RESILIENT SHEET TO RESILIENT TILE AT DOOR
NOT TO SCALE



"A" COVE STICK

"B" INTEGRAL COVE BASE

11 REDUCED COVE STICK BASE DETAIL
NOT TO SCALE

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STATE OF COLORADO
GREGORY A. GORE
ARC.400615
LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Jun 29, 2023*
2021 INTERNATIONAL CODES & 2020 NEC

Revision		
No.	Date	Description

TRANSITION, WALL, AND DOOR PROTECTION DETAILS

I002

PROJECT: 45990.00
DATE:

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

2/17/2023 5:32:25 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/459900_ArchCentralR22.rvt

APPROVED
RSN:1707621 | PERMIT# 23-2315197-LT

Drawn By: Author
Checked By: Checker
Approved By: Approver

1 THIRD FLOOR - FLOOR PATTERN PLAN
1/8" = 1'-0"
0' 4' 8' 16' 24'

Plastic fire sprinkler piping exposed within a plenum shall be used only in wet pipe systems and shall have a maximum: peak optical density of 0.50; average optical density of 0.15; flame spread of 5 feet in accordance with UL 1887. Piping shall be listed and labeled. 2021 IMC 602.2.1.2

Provide proof of a flame spread less than 26 and a smoke development less than 50 for any material used in a plenum. 2021 IMC 602.2.1

Heating system shall be capable of maintaining 68 degrees Fahrenheit at 3'0" above the floor. 2021 IMC 309

This work must also comply with 2021 IECC

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. **2021 IBC 105.4**

City of Aurora Building Division
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2021 INTERNATIONAL CODES & 2020 NEC

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STATE OF COLORADO GREGORY A. GORE ARC.400615 LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

THIRD FLOOR - FLOOR PATTERN PLAN

I203.1

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

PROJECT: 45990.00
DATE:

2/17/2023 5:32:39 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/45990_ArchCentralR22.rvt

APPROVED
RSN:1707621 | PERMIT# 23-2315197-LT

Drawn By: Author
Checked By: Checker
Approved By: Approver

1 THIRD FLOOR - FURNITURE PLAN
1/8" = 1'-0" 0' 4' 8' 16' 24'

City of Aurora Building Division
Reviewed for Code Compliance
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Date: *Jun 29, 2023*
2021 INTERNATIONAL CODES & 2020 NEC

2/17/2023 5:32:46 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/45990_ArchCentralR22.rvt

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STATE OF COLORADO
GREGORY A. GORE
ARC.400815
LICENSED ARCHITECT

THIRD FLOOR ICU BUILD-OUT

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HCA Project No.: 2740000034

Revision		
No.	Date	Description

THIRD FLOOR - FURNITURE PLAN

I203.2

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

PROJECT: 45990.00
DATE:

APPROVED
RSN:1707621 | PERMIT# 23-2315197-LT

Drawn By: Author
Checked By: Checker
Approved By: Approver

1 THIRD FLOOR - FINISH PLAN
1/8" = 1'-0"

FINISH & ACCENTS LEGEND

WALL / BASE / FLOOR — Casework Finish / Wall Finish / Base Finish / Floor Finish — FINISH BOX - SEE SHEET I000 FOR "INTERIOR DESIGN GENERAL NOTES AND FINISH LISTING"

XX-XX — ACCENT AND/OR SPECIFIC FINISH

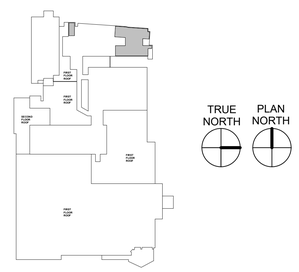
FLOORING TRANSITION REQUIRED BETWEEN DIFFERENT FINISH MATERIALS

CHANGE IN FLOORING WHERE A TRANSITION IS NOT REQUIRED

EJ — EXPANSION JOINT

NOTES:
A. THIS FINISH & ACCENT FINISH LEGEND IS ONLY A SYMBOLIC REPRESENTATION OF DIFFERENT MATERIAL TYPES USED FOR THIS PROJECT.
B. THE CONTRACTOR SHALL REFER TO THE INTERIOR DESIGN FINISH LISTING ON SHEET I000, THE INTERIOR DESIGN DRAWINGS, AND THE PROJECT MANUAL FOR ADDITIONAL PRODUCT AND COLOR SPECIFICATIONS.
C. SEE SHEET I000 FOR "INTERIOR DESIGN GENERAL NOTES AND FINISH LISTING."

KEY PLAN



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THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
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Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

THIRD FLOOR - FINISH PLAN

I203

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

PROJECT: 45990.00
DATE:

2/17/2023 5:32:33 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/459900_ArchCentralR22.rvt

Drawn By: Author
Checked By: BE
Approved By: Approver

ABBREVIATIONS - MECHANICAL

(300)	CUBIC FEET OR AIR PER MINUTE OR GALLONS PER MINUTE	HV	HEATING AND VENTILATION
(E)	EXISTING TO REMAIN	HW	HOT WATER
(N)	NEW	HWR	HEATING WATER RETURN
(R)	EXISTING TO BE RELOCATED	HWS	HEATING WATER SUPPLY
(X)	EXISTING TO BE DEMOLISHED	HX	HEAT EXCHANGER
ABV	ABOVE	ID	INSIDE DIMENSION
AC	ABOVE CEILING	IN HG	INCHES MERCURY (PRESSURE)
ACC	AIR COOLED CHILLER	IN WC	INCHES WATER COLUMN (PRESSURE)
ACD	AUTOMATIC CONTROL DAMPER	KW	KILOWATT
AD	ACCESS DOOR	KWH	KILOWATT HOURS
AFF	ABOVE FINISHED FLOOR	LAT	LEAVING AIR TEMPERATURE
AHU	AIR HANDLING UNIT	LBS	POUNDS
AI	ANALOG INPUT	LRA	LOCK ROTOR AMPS
AL	ACOUSTICAL LINING	LWS	LOUVER WIRE SCREEN
AO	ANALOG OUTPUT	LWT	LEAVING WATER TEMPERATURE
ARCH	ARCHITECTURAL	MA	MIXED AIR
ATC	AUTOMATIC TEMPERATURE CONTROL	MAT	MIXED AIR TEMPERATURE
BD	BALANCING DAMPER	MAX	MAXIMUM
BDD	BACK DRAFT DAMPER	MBH	THOUSAND BTU PER HOUR
BF	BELOW FLOOR, BLIND FLANGE	MEOR	MECHANICAL ENGINEER OF RECORD
BFC	BELOW FINISHED CEILING	MFG	MANUFACTURER
BG	BELOW GRADE	MFS	MAXIMUM FUSE SIZE
BHP	BRAKE HORSEPOWER	MIN	MINIMUM
BMS	BUILDING MANAGEMENT SYSTEM	MOCP	MAXIMUM OVERCURRENT PROTECTION
BO	BLANK OFF	MVD	MANUAL VOLUME DAMPER
BTU	BRITISH THERMAL UNIT	MW	MAKE-UP WATER
BV	BUTTERFLY VALVE	NC	NORMALLY CLOSED
CA	COMBUSTION AIR	NFA	NET FREE AREA
CC	COOLING COIL	NIC	NOT IN THIS CONTRACT
CD	CEILING DIFFUSER	NK	NECK
CFF	CAP FOR FUTURE	NO	NORMALLY OPEN
CFM	CUBIC FEET PER MINUTE	NTS	NOT TO SCALE
CG	CEILING GRILLE	OBD	OPPOSED BLADE DAMPER
CH	CHILLER	OD	OUTSIDE DIMENSION
CHR	CHILLED WATER RETURN	OA	OUTSIDE AIR
CHS	CHILLED WATER SUPPLY	PD	PRESSURE DROP
COMP	COMPRESSOR	PHC	PRE-HEAT COIL
CONV	CONVECTOR	PRV	PRESSURE REDUCING VALVE
CU	CONDENSING UNIT	PSI	POUNDS PER SQUARE INCH (GAUGE)
CUH	CABINET UNIT HEATER	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
DB	DRY BULB	RA	RETURN AIR
DI	DIGITAL INPUT	RF	RETURN FAN
DIA	DIAMETER	RH	RELATIVE HUMIDITY
DN	DOWN	RHC	REHEAT COIL
DO	DIGITAL OUTPUT	RPM	REVOLUTIONS PER MINUTE
DS	DISCONNECT SWITCH	SA	SUPPLY AIR
DX	DIRECT EXPANSION	SAD	SEE ARCHITECTURAL DRAWINGS
EA	EXHAUST AIR	SD	SMOKE DAMPER
EC	ENTERING AIR TEMPERATURE	SED	SEE ELECTRICAL DRAWINGS
EDB	ENTERING DRY BULB	SENS	SENSIBLE
EF	EXHAUST FAN	SF	SUPPLY FAN
EFF	EFFICIENCY	SM	SHEET METAL
EHC	ELECTRIC HEATING COIL	SP	STATIC PRESSURE
ELEV	ELEVATOR	SPD	SEE PLUMBING DRAWINGS
EUH	ELECTRIC UNIT HEATER	SQFT	SQUARE FEET
EWB	ENTERING WET BULB	SS	STAINLESS STEEL
EWT	ENTERING WATER TEMPERATURE	ST	SOUND TRAP
F	FILTER	STP	STAIR PRESSURIZATION
FBO	FURNISHED BY OTHERS	SV	SAFETY VALVE
FC	FLEXIBLE CONNECTION (DUCT OR PIPE)	TA	TRANSFER AIR
FD	FIRE DAMPER	TRD	TRANSFER DUCT
FLA	FULL LOAD AMPS	TRG	TRANSFER GRILLE
FLR	FLOOR	TYP	TYPICAL
FPI	FINS PER INCH	UH	UNIT HEATER
FRE	FIRE RATED ENCLOSURE	UON	UNLESS OTHERWISE NOTED
FSD	COMBINATION FIRE AND SMOKE DAMPER	VAR	VARIABLE
FT	FEET	VAV	VARIABLE AIR VOLUME
FTR	FIN TUBE RADIATOR	VD	VOLUME DAMPER
GC	GENERAL CONTRACTOR	VFD	VARIABLE FREQUENCY DRIVE
GPM	GALLONS PER MINUTE	W/	WITH
H	HUMIDIFIER	WB	WET BULB
HC	HEATNG COIL	WG	WATER GUAGE
HP	HORSEPOWER	WH	WATER HEATER
HR	HOUR	WMS	WIRE MESH SCREEN
		WO-SIZE	WALL OPENING - [SIZE]
		°F	DEGREES FAHRENHEIT
		°C	DEGREES CELSIUS

MECHANICAL SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
XX / ##	EQUIPMENT TAG (XX = EQUIPMENT ABBREVIATION, ## = MARK)
XX / ## AA-BB / CC-DD	EQUIPMENT TAG (XX = EQUIPMENT ABBREVIATION, ## = MARK) (AA = FAN BOX SIZE, BB = MAX CFM VALUE, CC = COIL GPM/KW, DD = MIN CFM VALUE)
XX / ##	DIFFUSER TAG (XX = SCHEDULE DESIGNATION, ## = CFM VALUE)
	VAV BOX - HW
	SUPPLY DIFFUSER
	RETURN GRILLE
	EXHAUST GRILLE
	SUPPLY SLOT DIFFUSER
	RETURN SLOT GRILLE
	SUPPLY, RETURN, OR EXHAUST SIDEWALL DIFFUSER/GRILLE
	FLEXIBLE ROUND DUCT
	SUPPLY AIR FLOW ARROW
	RETURN/EXHAUST AIR FLOW ARROW
	SUPPLY RECTANGULAR DUCT GOING DOWN
	SUPPLY RECTANGULAR DUCT GOING DOWN
	SUPPLY RECTANGULAR DUCT GOING DOWN
	SUPPLY RECTANGULAR DUCT GOING UP
	RETURN RECTANGULAR DUCT GOING UP
	EXHAUST RECTANGULAR DUCT GOING UP
	SUPPLY ROUND DUCT GOING DOWN
	RETURN ROUND DUCT GOING DOWN
	SUPPLY ROUND DUCT GOING DOWN
	SUPPLY ROUND DUCT GOING UP
	RETURN ROUND DUCT GOING UP
	SUPPLY ROUND DUCT GOING UP
	PIPE GOING DOWN
	PIPE TEE GOING DOWN
	PIPE GOING UP
	PIPE TEE GOING UP
	MANUAL DAMPER
SD	SMOKE DAMPER
FD	FIRE DAMPER
FSD	FIRE AND SMOKE DAMPER
M	MOTORIZED DAMPER
	SOUND ATTENUATOR
	REHEAT COIL
T	THERMOSTAT
H	HUMIDISTAT
CO2	CO2 SENSOR
	AIR HANDLING UNIT
	BALANCING VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	GATE VALVE
	GLOBE VALVE

PROJECT DESIGN CRITERIA

LOCATION:	
CITY/STATE	AURORA, COLORADO
APPLICABLE CODES:	
BUILDING	2015 IBC*
MECHANICAL	2015 IMC*
PLUMBING	2015 IPC*
ENERGY	2015 IECC*
ELECTRICAL	2020 NEC**
FIRE	2015 IFC*
LATITUDE:	
DEG. N. LAT.	39.69
ELEVATION:	
FT. ABOVE SEA LEVEL	5280

* WITH CITY OF AURORA BUILDING CODE AMENDMENTS.

GENERAL NOTES - ALL HVAC SHEETS

A. ALL MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR MECHANICAL AND PLUMBING CONSTRUCTION.

B. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, PAY ALL FEES, AND COMPLY WITH ALL NATIONAL, STATE, AND MUNICIPAL LAWS, CODES, AND ORDINANCES RELATING TO BUILDING AND PUBLIC SAFETY.

C. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED FOR A COMPLETE WORKING AND COORDINATED SYSTEM.

D. COORDINATE THE EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT WITH THE LOCATIONS OF LIGHT FIXTURES, PIPING, CONDUIT, AND OTHER CONSTRUCTION, TO ALLOW FOR PROPER ACCESS TO SERVICE EQUIPMENT.

E. COORDINATE THE LOCATION OF DUCTWORK AND PIPING WITH OTHER TRADES AND PROVIDE OFFSETS IN DUCTWORK AND PIPING AS REQUIRED.

F. IT IS THE INTENT OF THESE DOCUMENTS TO ALLOW ALL CEILING CONSTRUCTION AND HEIGHTS TO BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS. COORDINATE THE LOCATION OF DUCTWORK AND PIPING AND PROVIDE OFFSETS IN DUCTWORK AND PIPING AS REQUIRED TO MEET THIS INTENT.

G. CONDUIT, PIPING, AND DUCTWORK SHALL BE INDEPENDENTLY SUPPORTED, AND EACH SUPPORT SHALL BE INDEPENDENT OF PARTITION AND CEILING SYSTEM SUPPORTS. WHERE INDEPENDENT SUPPORT IS NOT POSSIBLE AN ENGINEERED SUPPORT SYSTEM SHALL BE UTILIZED.

H. INSTALL ALL FLOOR MOUNTED EQUIPMENT ON PADS AS SPECIFIED. PAD BY GENERAL CONTRACTOR. COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.

I. ALL WORK SHALL BE SCHEDULED AND PERFORMED IN STRICT COORDINATION WITH ARCHITECTURAL PHASING PLANS AND WITH HOSPITAL SCHEDULES, OCCUPANCIES, AND WORK.

J. PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION.

K. REMOVE ALL EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. TOUCH UP WITH PAINT WHERE REQUIRED.

L. CONTRACTOR SHALL VISIT JOBSITE AND VERIFY SIZE AND LOCATION OF ALL EXISTING ITEMS AND CONDITIONS.

M. ALL CONNECTION BETWEEN PIPES OF DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC UNIONS.

N. CONTRACTOR SHALL COORDINATE ALL WORK CLOSELY WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES.

O. ALL EXISTING FACILITIES SHALL BE PROTECTED DURING THE CONSTRUCTION ACTIVITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE AND STORE ITEMS WHICH ARE SUBJECT TO DAMAGE.

P. ARCHITECT SHALL HAVE FINAL APPROVAL OF ALL GRILLE, DIFFUSER, AND THERMOSTAT LOCATIONS. IF NOT DIRECTED OTHERWISE, INSTALL ALL CONTROL SENSORS 48" AFF WHERE AFF REFERS TO TOP OF THE SENSOR.

Q. COORDINATE ALL AIR DEVICE LOCATIONS AND MOUNTING FRAME STYLES WITH LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS.

R. COORDINATE ALL WALL MOUNTED DEVICE LOCATIONS WITH ARCHITECTURAL INTERIOR ELEVATIONS.

S. DEMOLITION OF EACH PHASE SHALL OCCUR AS PART OF THE WORK FOR THAT PHASE. REMOVE ONLY THE WORK THAT SERVES THE AREA OF DEMOLITION.

T. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO PREVENT DISRUPTING ADJACENT AREAS OF THE PHASE IN WHICH WORK IS BEING PERFORMED.

U. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK, ETC. AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED.

V. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE COORDINATED WITH THE HOSPITAL REPRESENTATIVE.

W. DUCT SIZES ARE NET FREE AREA.

X. PROVIDE ROUND DUCTS TO ALL AIR DEVICES UNLESS NOTED OTHERWISE. DUCT SIZE SHALL MATCH AIR DEVICE NECK SIZE OR THE TABLE IN AIR DEVICE SCHEDULE, WHICHEVER IS LARGER. FLEXIBLE DUCTS SHALL BE SIZED SIMILARLY. DO NOT USE FLEXIBLE DUCTS ABOVE NON-LAYIN CEILINGS.

Y. TERMINAL BOX INLET DUCTS: SIZE THE RUNOUT DUCT AND ITS TAP AT MAIN TRUCK PER VAV BOX SCHEDULE.

Z. PROVIDE FRAMED 0.5" BY 0.5" BIRD SCREEN (GALVANIZED STEEL ASSEMBLY) AT ALL DUCTS TERMINATING WITHOUT AN AIR DEVICE, AT INDOOR FACE OF LOUVERS, AND AT UNDUCTED AIR FLOW OPENINGS AT EQUIPMENT.

AA. PROVIDE MANUAL VOLUME DAMPER IN EACH AIR DEVICE RUNOUT DUCT AS FAR FROM AIR DEVICE AS POSSIBLE.

AB. INSTALL TURNING VANES IN ALL 90 DEGREE SQUARE ELLS IN SUPPLY, RETURN, AND EXHAUST DUCTS. (NONE ALLOWED IN COMBUSTION AIR DUCTS).

AC. LOCATE ISOLATION VALVES FOR EQUIPMENT AS CLOSE TO THE MAIN AS POSSIBLE.

AD. PROVIDE CONDENSATE DRAIN PIPING FROM ALL COOLING COILS TO DRAIN.

AE. MULTI-BLADE DAMPERS OF ANY TYPE INSTALLED WITHIN 36" OF AN ELBOW OR OTHER FITTING SHALL BE INSTALLED WITH THE DAMPER BLADE SHAFTS PARALLEL TO THE AIRSTREAM FLOW DIRECTION UPSTREAM OF THE FITTING.

AF. COORDINATE LOCATION OF ALL DISCONNECTS, CONTROL PANELS AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES OF 42" DEEP AND 30" WIDE IN FRONT OF EQUIPMENT.

AG. ALL FIRE AND COMBINATION FIRE/SMOKE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION DETAILS AND BE U.L. TESTED AND LISTED.

AH. PRIOR TO DEMOLITION, PRE-TAB ALL EXISTING SYSTEMS SERVING EXISTING AND NEW ICU AREAS (AHU-06-03, EF-6-1, EF-6-2, HWS/R DIFFERENTIAL PRESSURE AT MAINS IN CORRIDOR OF MAIN ENTRY). PROVIDE REPORT TO ARCHITECT/ENGINEER AND FACILITIES STAFF. AFTER CONSTRUCTION, RE-BALANCE ALL NEW SPACES PER PLANS, AND RE-MEASURE ALL EXISTING SPACES ON MODIFIED SYSTEMS, AND RE-BALANCE AS REQUIRED TO PRE-TAB VALUES. REFER TO PLANS FOR MORE SPECIFIC BALANCING NOTES.

AI. GC AND SUBCONTRACTOR SHALL PROVIDE SUPPORT, AS REQUIRED, FOR OWNER'S COMMISSIONING AGENT AND ACTIVITIES. THIS MAY INCLUDE, BUT IS NOT LIMITED TO, BEING AVAILABLE ON-SITE FOR EXCERSIZING MANUAL OR AUTOMATED DAMPERS, VALUES, AND BAS MANIPULATION.

GENERAL PIPING NOTES

A. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO PREVENT DISRUPTING ADJACENT AREAS OF THE PHASE IN WHICH WORK IS BEING PERFORMED.

B. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK AND/OR PIPING AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED.

C. ALL WORK SHALL BE PERFORMED IN STRICT COORDINATION WITH HOSPITAL SCHEDULES, OCCUPANCIES AND WORK. CONTRACTOR SHALL COORDINATE WITH HOSPITAL REPRESENTATIVE.

D. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE SCHEDULED WITH THE HOSPITAL REPRESENTATIVE.

E. ARCHITECT SHALL HAVE FINAL APPROVAL OF ALL THERMOSTAT LOCATIONS.

F. G.C. TO PROVIDE ACCESS DOORS IF REQUIRED FOR ACCESS TO VAV'S AND ANY VALVES THAT ARE NOT ACCESSIBLE. VERIFY SIZE AND LOCATIONS WITH MECHANICAL CONTRACTOR.

GENERAL DEMOLITION NOTES:

A. ALL CAPPED DUCT TAPS AND CONNECTING DUCTS THAT ARE NOT BEING USED ARE TO BE REMOVED BACK TO THE MAIN DUCT AND PATCHED AS PER ITEM B BELOW.

B. PATCH OPENINGS IN EXISTING DUCTWORK THAT IS TO REMAIN INCLUDING OPENINGS. WHERE TAPS OR DUCTWORK ARE TO BE REMOVED, THE FOLLOWING SHALL OCCUR:

- OPENINGS IN THE MAIN DUCTS ARE TO BE COVERED WITH A SHEET METAL PATCH. THE PATCH IS TO BE LARGER THAN THE EXISTING OPENING AND IS TO BE SECURED WITH SHEET METAL SCREWS FOUR INCHES ON CENTERS.
- A LIBERAL QUANTITY OF FIRE RESISTANT ADHESIVE IS TO BE APPLIED TO THE EDGES OF THE METAL PATCH AND THE ASSEMBLY SCREWED IN PLACE.

C. DEMOLITION OF EACH PHASE SHALL OCCUR AS PART OF THE WORK FOR THAT PHASE. REMOVE ONLY THE WORK THAT SERVES THE AREA OF DEMOLITION.

D. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO PREVENT DISRUPTING ADJACENT AREAS OF THE PHASE IN WHICH WORK IS BEING PERFORMED.

E. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK AND/OR PIPING AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED.

F. ALL WORK SHALL BE PERFORMED IN STRICT COORDINATION WITH HOSPITAL SCHEDULES, OCCUPANCIES AND WORK. CONTRACTOR SHALL COORDINATE WITH HOSPITAL REPRESENTATIVE.

G. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE SCHEDULED WITH THE HOSPITAL REPRESENTATIVE.

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COLORADO LICENSED REGISTERED PROFESSIONAL ENGINEER 0051899 2/17/23

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

MECHANICAL LEGENDS, NOTES, AND ABBREVIATIONS

M000

PROJECT: 45990.00
DATE: 02/17/23

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

2/16/2023 8:49:00 AM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/MEP_459900_TMCA ICU Build-Out.rvt

Drawn By: Author
Checked By: BE
Approved By: Approver

1 THIRD FLOOR - HVAC DEMOLITION PLAN
1/8" = 1'-0"
0' 4' 8' 16' 24'

This sheet of drawings has not been reviewed for code compliance.

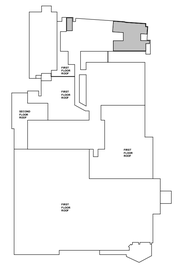
LEGEND NOTES

1. REBALANCE EXISTING VAV 3-AG TO 1035 CFM.
2. DEMOLISH EXISTING TO LOCATION INDICATED, PREPARE FOR NEW DUCT CONNECTION.

GENERAL NOTES

A. REFER TO SHEET M0000 FOR GENERAL NOTES AND SYMBOLS.
B. ALL EXISTING CONDITIONS INDICATED ON THESE DRAWINGS ARE APPROXIMATE AND BASED UPON A COMBINATION OF AVAILABLE RECORD DESIGN DOCUMENTS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.
C. UNLESS NOTED OTHERWISE, ALL EXISTING HVAC SYSTEMS TO REMAIN IN PLACE UNCHANGED.
D. ALL WORK TO BE COORDINATED WITH ARCHITECTURAL PHASING PLANS TO DETERMINE WHEN WORK IS TO BE COMPLETED.
E. CONTRACTOR TO PRE-TAB ALL SUPPLY, RETURN, AND EXHAUST DUCTS SERVED BY ANY AHU OR EXHAUST FAN MODIFIED AS PART OF THIS SCOPE. CONTRACTOR TO DOCUMENT PRECONSTRUCTION VALUES AND, UPON COMPLETION OF CONSTRUCTION, REBALANCE ALL EXISTING AREAS TO PRE-TABBED CONSTRUCTION VALUES UNLESS INDICATED OTHERWISE.

KEY PLAN



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REGISTERED COLORADO LICENSED 0051899 2/17/23 PROFESSIONAL ENGINEER

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
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HCA Project No.: 2740000034

Revision		
No.	Date	Description

THIRD FLOOR - HVAC DEMOLITION PLAN

MD203

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

PROJECT: 45990.00
DATE: 02/17/23

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1 THIRD FLOOR - PIPING DEMOLITION PLAN
1/8" = 1'-0" 0' 4' 8' 16' 24'

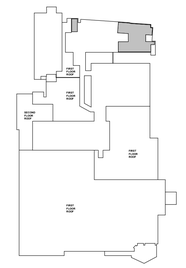
LEGEND NOTES

1. DEMOLISH 3/4" HWS AND HWR LINES BACK TO BEGINNING OF 1" PIPING RUNS. PREPARE FOR NEW CONNECTION.

GENERAL NOTES

A. REFER TO SHEET M0000 FOR GENERAL NOTES AND SYMBOLS.
B. ALL EXISTING CONDITIONS INDICATED ON THESE DRAWINGS ARE APPROXIMATE AND BASED UPON A COMBINATION OF AVAILABLE RECORD DESIGN DOCUMENTS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.
C. UNLESS NOTED OTHERWISE, ALL EXISTING HVAC SYSTEMS TO REMAIN IN PLACE UNCHANGED.
D. ALL WORK TO BE COORDINATED WITH ARCHITECTURAL PHASING PLANS TO DETERMINE WHEN WORK IS TO BE COMPLETED.

KEY PLAN



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THIRD FLOOR ICU BUILD-OUT

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1501 South Potomac Street
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HCA Project No.: 2740000034

Revision		
No.	Date	Description

THIRD FLOOR - PIPING DEMOLITION PLAN

MD303

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

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Drawn By: Author
Checked By: BE
Approved By: Approver

1 THIRD FLOOR - HVAC PLAN
1/8" = 1'-0" 0' 4' 8' 16' 24'

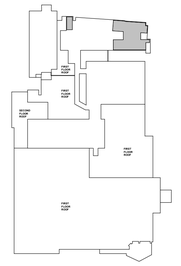
LEGEND NOTES

1. EXHAUST FANS EF 06-01 AND EF 06-02 TO BE REPLACED. SEE M701 FOR SCHEDULE.

GENERAL NOTES

A. REFER TO SHEET M0000 FOR GENERAL NOTES AND SYMBOLS.
B. PROVIDE REMOTE OPERATED DAMPERS AND ASSOCIATED CONTROLS FOR ALL DAMPERS LOCATED ABOVE HARD CEILINGS WITHIN THE SCOPE OF WORK.
C. PROVIDE CEILING ACCESS PANELS FOR ALL EQUIPMENT, COILS, MOTORIZED DAMPERS, ETC. THAT ARE LOCATED ABOVE HARD CEILINGS UNLESS NOTES OTHERWISE.
D. NO FLEXIBLE DUCT SHALL BE INSTALLED ABOVE ROOMS WITH HARD CEILINGS.
E. ALL MITERED DUCT FITTINGS SHALL BE PROVIDED WITH TURNING VANES.
F. CONTRACTOR SHALL CONFIRM EXISTING DUCTS HAVE REQUIRED FIRE DAMPERS AND FIRE SMOKE DAMPETS. CONTRACTOR SHALL INSTALL FIRE DAMPERS OR FIRE SMOKE DAMPERS IN EXISTING DUCTS AS REQUIRED TO MEET REQUIRED WALL RATINGS.

KEY PLAN



TRUE NORTH PLAN NORTH

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Jun 29, 2023*
2021 INTERNATIONAL CODES & 2020 NEC

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COLORADO LICENSED 0051899 2/17/23 PROFESSIONAL ENGINEER

THIRD FLOOR ICU BUILD-OUT

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THIRD FLOOR - HVAC PLAN

M203.1

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1 THIRD FLOOR - PIPING PLAN
1/8" = 1'-0"
0' 4' 8' 16' 24'

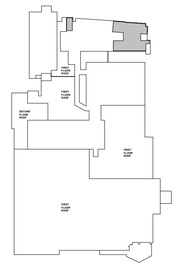
LEGEND NOTES

1. CUT-IN NEW PRESSURE INDEPENDENT DIFFERENTIAL PRESSURE CONTROL VALVE. BALANCE TO GPM INDICATED. IMI FLOW DESIGN HARMONY PICV, OR EQUAL. PROVIDE 24V POWER FROM LOCAL BAS CONTROL POWER CIRCUIT. SEE DETAIL 8 / M601. TAB CONTRACTOR TO FIELD VERIFY BALANCED (MAX) GPM OF ALL (E) VAV BOX REHEAT COILS SERVING (E) ICU SPACES. NEW DIFFERENTIAL PRESSURE CONTROL VALVES SHALL BE SIZED TO ACCOMODATE SUM OF ALL (E) AND NEW REHEAT COILS ON EACH RESPECTIVE BRANCH.
2. PROVIDE FULL LINE SIZED END OF MAIN FLUSH WITH FULL PORT BALL VALVE. SEE DETAL 9 / M601.

GENERAL NOTES

A. REFER TO SHEET M000 FOR GENERAL NOTES AND SYMBOLS.

KEY PLAN



TRUE NORTH PLAN NORTH

City of Aurora Building Division
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Approved as Noted: *Y. Munoz*
Date: *Jun 29, 2023*
2021 INTERNATIONAL CODES & 2020 NEC

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THIRD FLOOR - PIPING PLAN

M303.1

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DATE: 02/17/23

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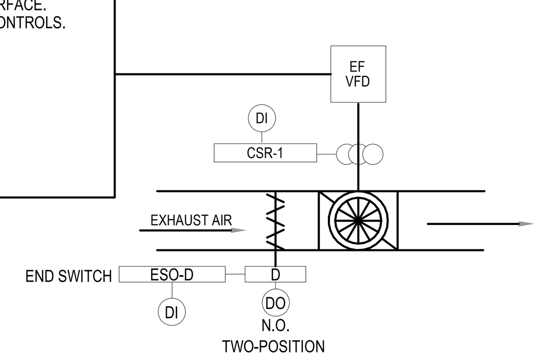
BMS INPUT/OUTPUT POINTS LIST

				HARDWARE																														SOFTWARE																		
				OUTPUT										INPUT																				ALARMS					CALCULATED VALUE					PROGRAMS									
				DIGITAL						ANALOG				DIGITAL										ANALOG																													
POINT DESCRIPTION	DESIGNATION	QUANTITY	GRAPHIC DISPLAY	DAMPER OPEN/CLOSE	START/STOP	FORCE ON	FORCE OFF	ENABLE/DISABLE		DAMPER CONTROL	VALVE CONTROL	CONTROL (MODUALTING)		CURRENT RELAY (CSR)	END SWITCH (ESO, ESC)	DIFFERENTIAL PRESS (DPS)	RELAY CONTACTS	PRESSURE (PS)	FLOW SWITCH (FS)	HAND SWITCH	AUX CONTACTS	STATUS	ALARM	TEMPERATURE (DB)	RELATIVE HUMIDITY (HT)	DIFFERENTIAL PRESS (DPT)	PRESSURE (PT)	FLOW (FM,AFMS)	KW	DEW POINT	HERTZ REFERENCE	SPEED/POS. FEEDBACK	PULSE	STATUS FAILURE	HIGH LIMIT	LOW LIMIT	SMOKE	MAINTENANCE	KW	BTUH	CFM	GPM	RUN TIME HRS	SCHEDULED START/STOP	AUTO RESTART	DEMAND LIMITING	LEAD/LAG	RUN TIME TOTALIZATION	FAIL MODE (CLOSED)	FAILED MODE (OPEN)	TREND LOGGING	DISCHARGE TEMP RESET	LIGHTING CONTROL
FAN STATUS	CSR-1	1	X											X																				X									X					X			X		
EXHAUST FAN VFD GENERAL ALARM	EF-ALM																																					X													X		
VFD SPEED OUTPUT	VFD-SPD	1	X									X																						X									X					X			X		
DISCHARGE AIR DAMPER	D	1	X	X																																														X	X		
DISCHARGE AIR DAMPER END SWITCH	ESO-D	1	X												X																			X																	X		

VFD NETWORK INTERFACE
ALL POINTS SHALL BE ACCESSIBLE THROUGH THE DDC CONTROL SYSTEM VIA SOFTWARE INTERFACE. PROVIDE THE FOLLOWING AS HARDWIRED CONTROLS.

- (AI) SPEED FEEDBACK
- (DO) START-STOP
- (AO) SPEED CONTROL (% FULL)
- (DI) RUN STATUS (BY ADJUSTABLE AMPS)
- (DI) GENERAL VFD ALARM



TYPICAL EXHAUST FANS
VFD SHALL BE CONTROLLED BY THE DDC CONTROL SYSTEM. FAN SHALL SHUT DOWN FROM A SIGNAL FROM THE FIRE ALARM PANEL. THE DDC SYSTEM SHALL ALARM IF THE FAN FAILS TO START.

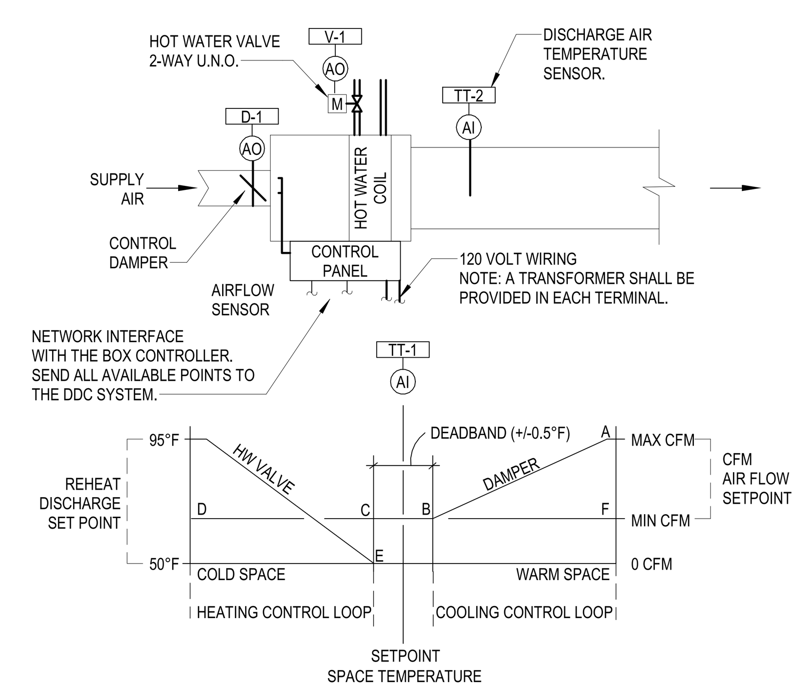
ALL EXHAUST FANS SHALL OPERATE CONTINUOUSLY, 24 HOURS PER DAY, 7 DAYS PER WEEK. FAN SHALL OPERATE AT PREDETERMINED SPEED AS PER BALANCING BY TAB CONTRACTOR TO GET DESIGN FLOW.

CURRENT SENSING RELAY SHALL BE ADJUSTABLE. MECHANICAL CONTRACTOR, CONTROLS, AND COMMISSIONING AGENT TO WORK TOGETHER TO ACQUIRE THE CURRENT AT BELT SLIP CONDITION TO ENABLE THE ALARM.

BELT BREAK ALARM (FOR BELT DRIVE FANS ONLY)
MECHANICAL CONTRACTOR, CONTROLS, AND COMMISSIONING AGENT TO WORK TOGETHER TO ACQUIRE THE CURRENT AT BELT SLIP CONDITION TO ENABLE THE ALARM.

DUAL FUNCTION CSR-X SHALL MONITOR MOTOR START/STOP AND MOTOR AMPS. DDC SYSTEM SHALL HAVE 2 FAN FAILURE ALARMS. DDC SYSTEM SHALL ALARM SHALL IF THE FAN FAILS TO START. A SECOND ALARM SHALL ALERT IF THE MOTOR AMP DRAW INDICATES A BROKEN BELT.

2 TYPICAL EXHAUST FAN WITH VFD CONTROL DIAGRAM
NOT TO SCALE



EXAMPLE BOX DA TEMPERATURES:

POINT	DEG F
A	50
B	50
C	50
D	95

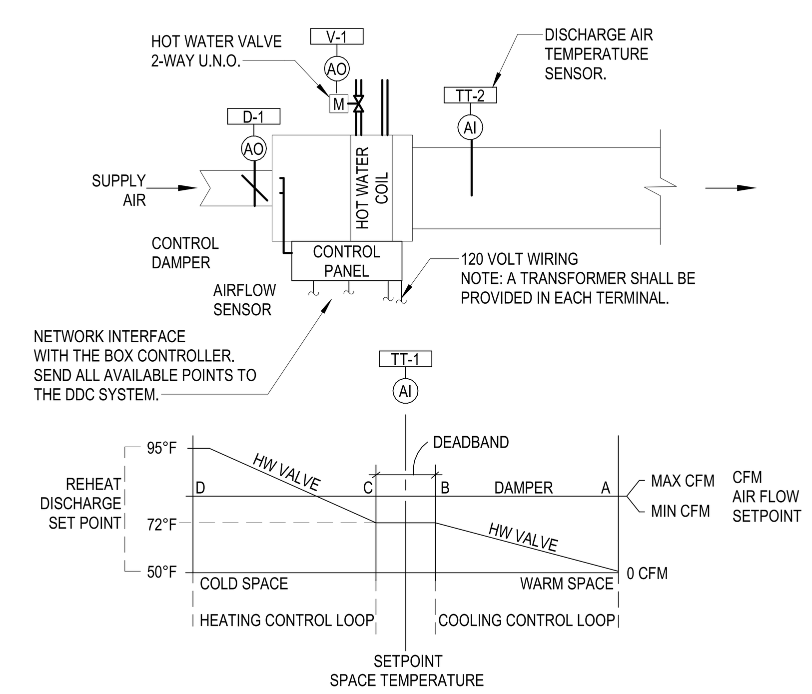
TYPICAL VARIABLE VOLUME BOX WITH HOT WATER REHEAT COIL

COOLING CONTROL LOOP:
UPON A RISE IN SPACE TEMPERATURE ABOVE TT-1 SETPOINT TT-1 SHALL SET A HIGHER CFM FOR THE MODULATING DAMPER TO MAINTAIN. ON A FALL IN SPACE TEMPERATURE TT-1 SHALL SET A LOWER CFM FOR THE MODULATING DAMPER TO MAINTAIN. UNDER NO CIRCUMSTANCES (EXCEPT SMOKE CONTROL IF APPLICABLE) SHALL THE CFM SETTING BE LESS THAN THE MINIMUM CFM AS INDICATED ON THE DRAWINGS.

DEADBAND REGION: THE VAV DAMPER OPERATES VIA ITS COOLING LOOP AT MINIMUM AIR FLOW. THE DEADBAND SHALL NOT EXCEED +/-0.5°F.

HEATING CONTROL LOOP:
THE REHEAT CONTROL VALVE (V-1) SHALL MODULATE TO MAINTAIN A DISCHARGE AIR TEMPERATURE AS SENSED BY VAV DISCHARGE AIR TEMPERATURE TRANSMITTER (TT-2). THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE ADJUSTED BY THE SPACE TEMPERATURE CONTROL LOOP WITHIN A MINIMUM OF 50F (EQUALS AHU DISCHARGE AIR TEMPERATURE) AND A MAXIMUM OF 100F.

SPACE TEMPERATURE SETPOINT SHALL BE ADJUSTABLE THROUGH THE DDC CONTROL SYSTEM AND SHALL HAVE USER ADJUSTABLE OFFSETS. THE DEADBAND SHALL BE ADJUSTABLE THROUGH THE DDC CONTROL SYSTEM.



EXAMPLE BOX DA TEMPERATURES:

POINT	DEG F
A	50
B	72
C	72
D	95

TYPICAL CONSTANT VOLUME BOX WITH HOT WATER REHEAT COIL

THE DAMPER (D-1) SHALL MODULATE TO MAINTAIN THE CONSTANT CFM SETTING AS INDICATED ON THE DRAWINGS AT ALL TIMES.

COOLING CONTROL LOOP:
THE REHEAT CONTROL VALVE (V-1) SHALL MODULATE TO MAINTAIN A DISCHARGE AIR TEMPERATURE AS SENSED BY VAV DISCHARGE AIR TEMPERATURE TRANSMITTER (TT-2). THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE ADJUSTED BY THE SPACE TEMPERATURE CONTROL LOOP WITHIN A MAXIMUM OF 72F (EQUALS TT-1 SETPOINT) AND A MINIMUM OF 50F.

DEADBAND REGION: THE VAV DAMPER OPERATES VIA ITS COOLING CONTROL LOOP AT MINIMUM AIR FLOW = MAXIMUM AIR FLOW. THE DEADBAND SHALL NOT EXCEED +/-0.5°F.

HEATING CONTROL LOOP:
THE REHEAT CONTROL VALVE (V-1) SHALL MODULATE TO MAINTAIN A DISCHARGE AIR TEMPERATURE AS SENSED BY VAV DISCHARGE AIR TEMPERATURE TRANSMITTER (TT-2). THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE ADJUSTED BY THE SPACE TEMPERATURE CONTROL LOOP WITHIN A MINIMUM OF 72F (EQUALS TT-1 SETPOINT) AND A MAXIMUM OF 100F.

SPACE TEMPERATURE SETPOINT SHALL BE ADJUSTABLE THROUGH THE DDC CONTROL SYSTEM AND SHALL HAVE USER ADJUSTABLE OFFSETS. THE DEADBAND SHALL BE ADJUSTABLE THROUGH THE DDC CONTROL SYSTEM.

1 TEMPERATURE CONTROLS - VAV AND CAV BOXES WITH HEATING WATER COIL
NOT TO SCALE

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Y. Munoz
Date: Jun 29, 2023
2021 INTERNATIONAL CODES & 2020 NEC

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COLORADO LICENSED PROFESSIONAL ENGINEER BENJAMIN WEERTS 0051899 2/17/23

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

MECHANICAL CONTROL DIAGRAMS

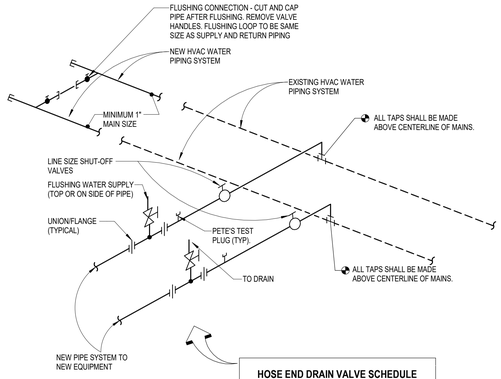
PROJECT: 45990.00
DATE: 02/17/23

M501

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

2/16/2023 8:49:50 AM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/MEP_459900_TMCA ICU Build-Out.rvt

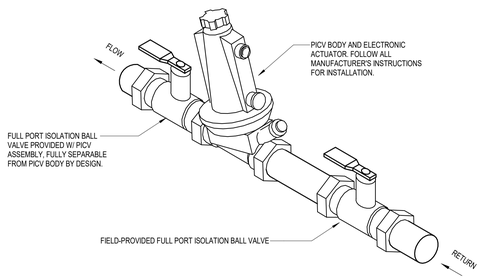
Drawn By: Author
Checked By: BE
Approved By: Approver



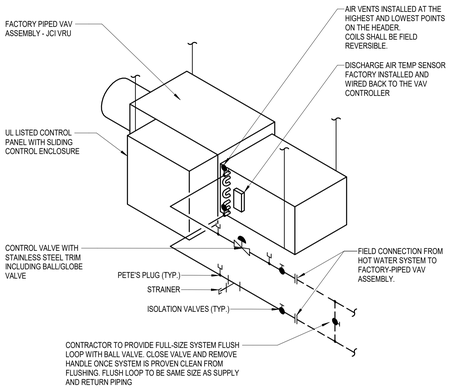
HOSE END DRAIN VALVE SCHEDULE

PIPE SIZE	DRAIN VALVE SIZE
UP TO 2"	3/4"
2 1/2" TO 4"	1 1/4"
5" TO 8"	2"
OVER 8"	2 1/2"

9 PIPING CONNECTION AND HOT WATER END OF MAIN FLUSHING DETAIL
NOT TO SCALE



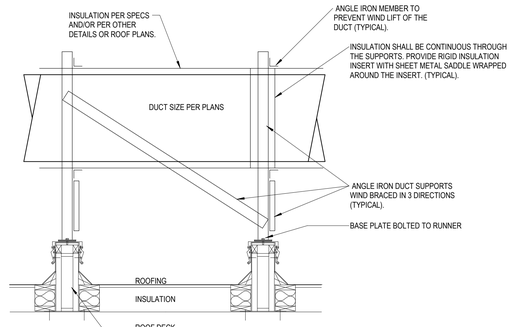
8 DIFFERENTIAL PRESSURE CONTROL STATION
NOT TO SCALE



NOTES:

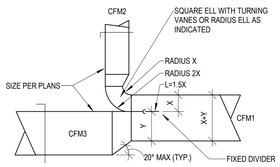
1. CONTRACTOR TO PROVIDE PIPING THE SAME FOR HEATING COIL IN HOT WATER REHEAT AIR TERMINAL AND FOR DUCT MOUNTED HOT WATER HEATING COILS.
2. MAINTAIN HOT WATER RETURN PIPING ELEVATION BELOW ELEVATION OF AIR VENT.

7 VAV TERMINAL REHEAT COIL PIPING DETAIL
NOT TO SCALE

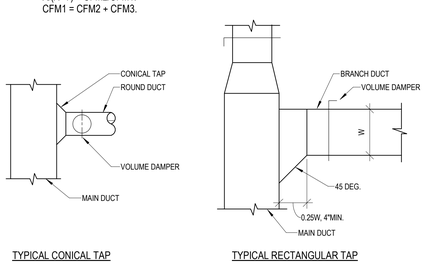


PAINT ALL EXTERIOR FERROUS METALS INCLUDING BUT NOT LIMITED TO EXPOSED DUCTWORK AND SUPPORTS. PAINT METHODS AND COLOR SHALL BE AS DETERMINED BY ARCHITECT.

6 DUCT-HORIZONTAL RUN ON ROOF-SUPPORTS
NOT TO SCALE

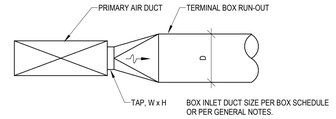


SPLITTER DAMPER
USE THIS DETAIL WHERE CFM1 >= 3000 CFM AND CFM2/CFM1 >= 0.25.
X/(X+Y) = CFM2/CFM1.
CFM1 = CFM2 + CFM3.



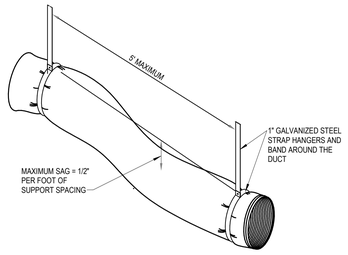
TYPICAL CONICAL TAP TYPICAL RECTANGULAR TAP

5 LOW PRESSURE DUCT FITTINGS - HORIZONTAL DUCTS
NOT TO SCALE

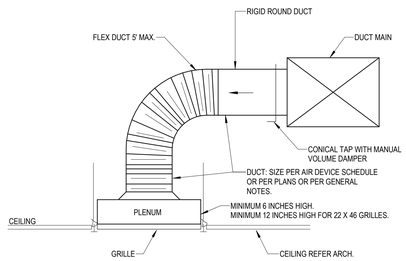


D (INCHES)	TAP, W x H (INCHES)
8	10/6
10	10/8
12	12/10, 16/8
14	14/12, 16/10
16	16/14, 18/12, 22/10
18	18/16, 20/14, 24/12

4 TERMINAL BOX INLET DUCT EQUIVALENT RECTANGULAR TO ROUND DUCT TAPS
NOT TO SCALE



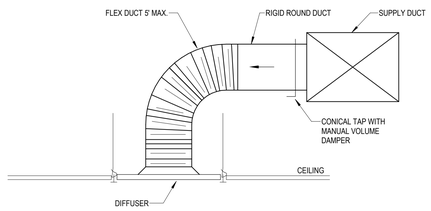
3 FLEXIBLE DUCT SUPPORT
NOT TO SCALE



GENERAL NOTE:
FLEX DUCT NOT ALLOWED IN EXPOSED LOCATIONS OR IN INACCESSIBLE CONCEALED LOCATIONS.

B. GRILLE RETURN OR EXHAUST CONNECTION - ROUND RUNOUT WITH FLEXIBLE DUCT

2 GRILLE RETURN OR EXHAUST
NOT TO SCALE



GENERAL NOTE:
A. FLEX DUCT NOT ALLOWED IN EXPOSED LOCATIONS OR IN INACCESSIBLE CONCEALED LOCATIONS.

1 DIFFUSER CONNECTION ROUND RUNOUT
NOT TO SCALE

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Jun 29, 2023*
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COLORADO LICENSED REGISTERED PROFESSIONAL ENGINEER 0051899 2/17/23

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

MECHANICAL DETAILS

M601

PROJECT: 45990.00
DATE: 02/17/23

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

2/16/2023 8:49:57 AM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/MEP_459900_TMCA ICU Build-Out.rvt

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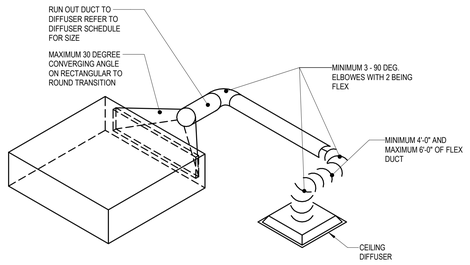
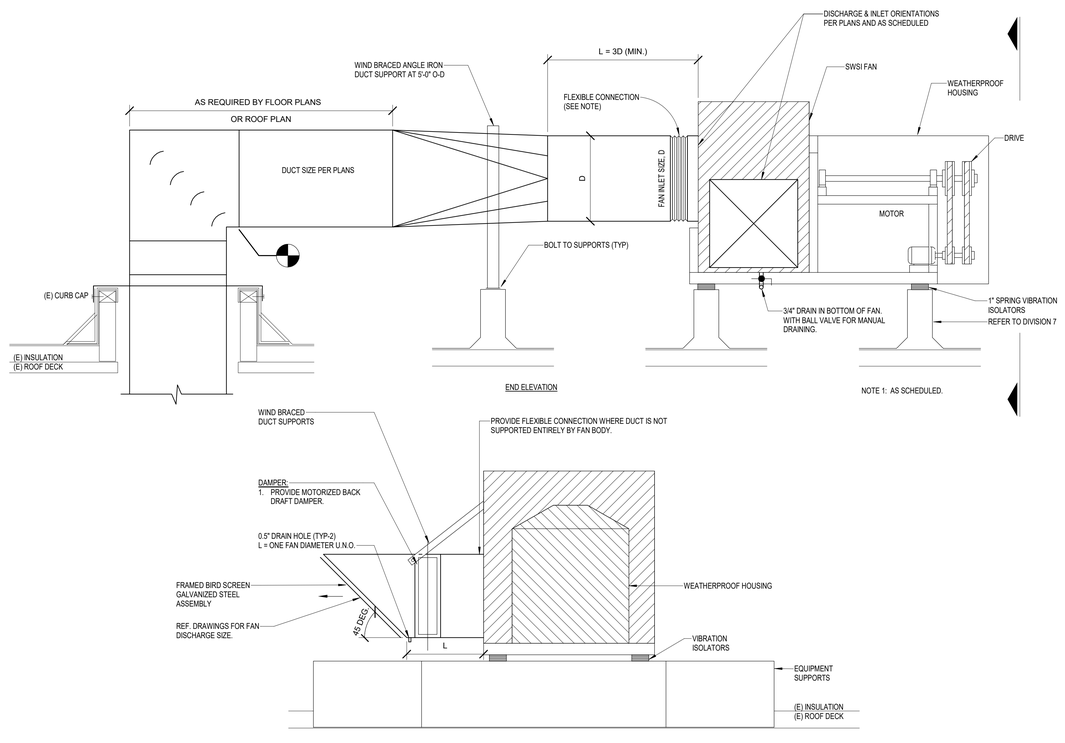
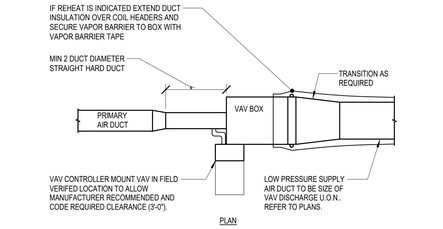


4 VAV BOX SERVING SINGLE DIFFUSER DETAIL
NOT TO SCALE



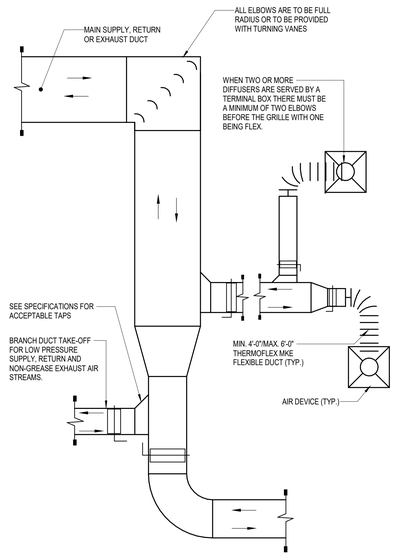
3 GENERAL EXHAUST FAN DETAIL
NOT TO SCALE



NOTE:

1. THIS DETAIL REFERS TO VAV AND CONSTANT VOLUME HOT WATER REHEAT AIR TERMINAL UNITS AND VAV AIR TERMINAL UNITS WITHOUT REHEAT.
2. TAP FITTING TO RECTANGULAR MEDIUM PRESSURE DUCT MAY ALSO BE A RECTANGULAR SHOE TAP FITTING WITH 45° CHAMFERED INLET., REFER TO DRAWINGS FOR REQUIRED SHOE TAP DUCT SIZES.
3. MEDIUM PRESSURE ROUND TRUNK DUCT TO HAVE CONICAL TEE FITTING, WITH OTHER REQUIREMENTS AS SHOWN.
4. COORDINATE REQUIREMENTS FOR CEILING ACCESS PANELS WITH FINAL BOX LOCATION DETERMINATION, DIVISION 8, AND ARCHITECTURAL RCP.

2 VAV BOX INSTALLATION DETAIL
NOT TO SCALE



1 TYPICAL LOW PRESSURE SUPPLY, RETURN AND EXHAUST DUCT DETAIL
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THIRD FLOOR ICU BUILD-OUT

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HCA Project No.: 2740000034

Revision		
No.	Date	Description

MECHANICAL DETAILS

M602

PROJECT: 45990.00
DATE: 02/17/23

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VARIABLE AIR VOLUME TERMINAL BOX SCHEDULE

PLAN DESIGNATION	SERVICE	UNIT SIZE	TYPE	BOX OUTLET SIZE	BOX COOLING MAXIMUM AIRFLOW (CFM)	BOX COOLING MINIMUM AIRFLOW (CFM)	BOX HEATING MAXIMUM AIRFLOW (CFM)	BOX HEATING HEATING GPM	HEATING COIL ENTERING AIR TEMP (°F)	HEATING COIL LEAVING AIR TEMP (°F)	ENTERING WATER TEMP. (°F)	LEAVING WATER TEMP. (°F)	MANUFACTURER / MODEL	REMARKS
VAV 06-3-01	ICU & PT TLT 41	6	SINGLE DUCT	10" X 10"	265	225	225	1.0	52	95	140	110	JCI / VRU	ALL
VAV 06-3-02	ICU & PT TLT 42	6	SINGLE DUCT	10" X 10"	265	225	225	1.0	52	95	140	110	JCI / VRU	ALL
VAV 06-3-03	ICU & PT TLT 43	6	SINGLE DUCT	10" X 10"	265	275	275	1.0	52	95	140	110	JCI / VRU	ALL
VAV 06-3-04	ICU & PT TLT 44	6	SINGLE DUCT	10" X 10"	265	250	250	1.0	52	95	140	110	JCI / VRU	ALL
VAV 06-3-05	ICU & PT TLT 45	6	SINGLE DUCT	10" X 10"	290	300	300	1.1	52	95	140	110	JCI / VRU	ALL
VAV 06-3-06	ICU & PT TLT 46	6	SINGLE DUCT	10" X 10"	265	250	250	1.0	52	95	140	110	JCI / VRU	ALL
VAV 06-3-07	EQUIPMENT STORAGE	6	SINGLE DUCT	10" X 10"	250	225	225	0.8	52	95	140	110	JCI / VRU	ALL
VAV 06-3-08	RT STORAGE	6	SINGLE DUCT	10" X 10"	75	25	25	0.1	52	95	140	110	JCI / VRU	ALL
VAV 06-3-09	SUPPLY STORAGE	6	SINGLE DUCT	10" X 10"	175	100	100	0.4	52	95	140	110	JCI / VRU	ALL
VAV 06-3-10	NURSE WORK / CORRIDOR	8	SINGLE DUCT	12" X 10"	425	300	300	1.5	52	95	140	110	JCI / VRU	ALL
VAV 06-3-11	MEDS	6	SINGLE DUCT	10" X 10"	175	75	75	0.3	52	95	140	110	JCI / VRU	ALL
VAV 06-3-12	ICU & PT TLT 52	6	SINGLE DUCT	10" X 10"	290	275	275	1.1	52	95	140	110	JCI / VRU	ALL
VAV 06-3-13	ICU & PT TLT 51	6	SINGLE DUCT	10" X 10"	290	250	250	1.0	52	95	140	110	JCI / VRU	ALL
VAV 06-3-14	CORRIDOR	6	SINGLE DUCT	10" X 10"	200	400	400	0.7	52	95	140	110	JCI / VRU	ALL
VAV 06-3-15	ICU & PT TLT 50	6	SINGLE DUCT	10" X 10"	290	275	275	1.1	52	95	140	110	JCI / VRU	ALL
VAV 06-3-16	ICU & PT TLT 49	6	SINGLE DUCT	10" X 10"	290	250	250	1.0	52	95	140	110	JCI / VRU	ALL
VAV 06-3-17	ICU & PT TLT 48	6	SINGLE DUCT	10" X 10"	290	275	275	1.1	52	95	140	110	JCI / VRU	ALL
VAV 06-3-18	ICU & PT TLT 47	6	SINGLE DUCT	10" X 10"	290	250	250	1.0	52	95	140	110	JCI / VRU	ALL

REMARKS:
1. PROVIDE VAV WITH FACTORY-MOUNTED ACTUATOR. CONTROL CONTRACTOR TO PROVIDE FIELD-MOUNTED CONTROLLERS.
2. PROVIDE EACH CONTROLLER WITH 120V TO 24V TRANSFORMER. COORDINATE WITH CONTROLS SUBCONTRACTOR.
3. LAT SHALL NOT EXCEED 95
4. ALL BOXES SHALL BE PRESSURE INDEPENDENT
5. CONTRACTOR TO CONFIRM NAMING CONVENTION WITH FACILITIES.
6. CONTRACTOR TO COORDINATE AND VERIFY HANDING OF ALL EQUIPMENT PRIOR TO ORDERING.

AIR DEVICE SCHEDULE

DESIG.	SIZE	OBD	THROW	NECK SIZE	MAX NC LEVEL	MANUFACTURER/MODEL NO.	REMARKS/NOTES
S1	24"X24"	NO	ADJ. 4-WAY	NOTE 1	25	PRICE / SPD	CEILING PLAQUE SUPPLY DIFFUSER
S2	12"X12"	NO	ADJ. 4-WAY	NOTE 1	25	PRICE / SPD	CEILING PLAQUE SUPPLY DIFFUSER
S3	48" LONG, (2) 1" SLOTS	NO	VERTICAL (ADJ.)	NOTE 1	25	PRICE / SDS100	CEILING LINEAR SLOT SUPPLY AIR DIFFUSER
S4	24"X24"	NO	ADJ. 3-WAY	NOTE 1	25	PRICE / SPD	CEILING PLAQUE SUPPLY DIFFUSER
R1	24"X24"	NO	-	NOTE 1	25	PRICE / 635	CEILING ONE-WAY LOUVERED RETURN GRILLE
R2	24"X12"	NO	-	NOTE 1	25	PRICE / 635	CEILING ONE-WAY LOUVERED RETURN GRILLE
E2	12"X12"	NO	-	NOTE 1	25	PRICE / 80	CEILING EXHAUST GRILLE

GENERAL NOTES:

A. CONTRACTOR TO COORDINATE FRAME STYLE WITH ARCHITECTURAL PLANS. FRAME TYPE SHALL MATCH CEILING TYPE AND MODULE DIMENSIONS.
B. CONTRACTOR TO COORDINATE FINAL FINISHES WITH ARCHITECT. AIR DEVICES TO BE FACTORY PAINTED.
C. IN MECHANICAL ROOMS, MAX SOUND LEVEL SHALL BE 35 NC.
D. NECK SIZES SHALL BE AS SCHEDULED UNLESS NOTED OTHERWISE ON PLANS.
E. DUCT MOUNTED AIR DEVICES SHALL BE FLANGE MOUNTED. NO MOUNTING SCREWS SHALL BE VISIBLE EXCEPT ON EXPOSED DUCTWORK.
F. AIR DEVICES IN SHOWER ROOMS, TUB ROOMS, WHIRLPOOLS, AND OTHER HIGH HUMIDITY AREAS SHALL BE ALUMINUM (EXCLUDING PATIENT ROOM TOILETS).
G. PROVIDE FACTORY INSTALLED INSULATED BACKPAN / SLOT PLENUM FOR ALL DEVICES.
H. PROVDE METAL BLANK-OFFS FOR INACTIVE SLOT DIFFUSERS. REFER TO PLANS FOR INACTIVE SECTIONS.

NOTES:

1. 6"Ø 0-130 CFM
   8"Ø 131-245 CFM
   10"Ø 246-330 CFM
   12"Ø 331-470 CFM
   14"Ø 471-600 CFM
2. COORDINATE EXACT LENGTH WITH ARCHITECTURAL PLANS AND ELEVATIONS.
3. PROVIDE HEAVY DUTY FLANGED MOUNTING FRAME WITH SCREW HOLE FASTENING.
4. PROVIDE WITH FACTORY FABRICATED PLENUM FOR ALL ACTIVE SECTIONS. COORDINATE WITH PLANS.
5. PROVIDE WITH ADJUSTABLE INLET DAMPER FOR BALANCING.
6. PROVIDE WITH PATTERN CONTROLLERS.

AHU 06-3 MECHANICAL VENTILATION & EQUIPMENT SIZING TABLE

Project Name: TMCA ICU Build-Out
Floor / Area Served: Aurora, CO

(Room Number) (Name)	SPACE PARAMETERS: CONDITIONED AREA FT SQ	CEILING HEIGHT FT	SPACE VOLUME CU FT	AREA DESIGNATION Designation	VENTILATION REQUIREMENTS: ASHRAE 170 REQUIREMENTS Min Air Changes of OA per Hour	ASHRAE 62N REQUIREMENTS Occupancy Load (#/1000 SF)	CFM/Person	CFM/SF	VENTILATION SUMMARY: 170 OA REQUIRED CFM	62N OA REQUIRED CFM	OA PROVIDED CFM	SPACE SA REQUIREMENTS: SA REQUIREMENT ROOM AIR CHANGES	SA PROVIDED CFM	SA AIR CHANGES
3-IC241 - ICU 41	241	9	2169	Critical and intensive care	2	N/A (Ref to 170)	--	--	73	0	70	6	225	6.2
2-IC247T - TLT 47	26	9	234	Toilet room	NR	N/A (Ref to 170)	--	--	0	0	15	10	50	12.8
3-IC110 - CORR	330	9	2970	Patient Corridor	NR	N/A (Ref to 170)	--	--	0	0	54	2	175	3.5
3-IC120 - CORR	152	9	1368	Patient Corridor	NR	N/A (Ref to 170)	--	--	0	0	31	2	100	4.4
3-IC135 - SUPPLY STORAGE	330	9	2970	Patient Corridor	NR	N/A (Ref to 170)	--	--	0	0	54	2	175	3.5
3-IC241T - TLT 41	26	9	234	Toilet room	NR	N/A (Ref to 170)	--	--	0	0	15	10	50	12.8
3-IC242 - ICU 42	236	9	2124	Critical and intensive care	2	N/A (Ref to 170)	--	--	71	0	70	6	225	6.4
3-IC242T - TLT 42	28	9	252	Toilet room	NR	N/A (Ref to 170)	--	--	0	0	15	10	50	11.9
3-IC243 - ICU 43	234	9	2106	Critical and intensive care	2	N/A (Ref to 170)	--	--	71	0	70	6	225	6.4
3-IC243T - TLT 43	26	9	234	Toilet room	NR	N/A (Ref to 170)	--	--	0	0	15	10	50	12.8
3-IC244 - ICU 44	228	9	2052	Critical and intensive care	2	N/A (Ref to 170)	--	--	69	0	70	6	225	6.6
3-IC244T - TLT 44	28	9	252	Toilet room	NR	N/A (Ref to 170)	--	--	0	0	15	10	50	11.9
3-IC245 - ICU 45	234	9	2106	Critical and intensive care	2	N/A (Ref to 170)	--	--	71	0	70	6	225	6.4
3-IC245T - TLT 45	26	9	234	Toilet room	NR	N/A (Ref to 170)	--	--	0	0	23	10	75	19.2
3-IC246 - ICU 46	228	9	2052	Critical and intensive care	2	N/A (Ref to 170)	--	--	69	0	70	6	225	6.6
3-IC246T - TLT 46	29	9	261	Toilet room	NR	N/A (Ref to 170)	--	--	0	0	15	10	50	11.5
3-IC247 - ICU 47	233	9	2097	Critical and intensive care	2	N/A (Ref to 170)	--	--	70	0	77	6	250	7.2
3-IC248 - ICU 48	232	9	2088	Critical and intensive care	2	N/A (Ref to 170)	--	--	70	0	77	6	250	7.2
3-IC248T - TLT 48	26	9	234	Toilet room	NR	N/A (Ref to 170)	--	--	0	0	15	10	50	12.8
3-IC249 - ICU 49	225	9	2025	Critical and intensive care	2	N/A (Ref to 170)	--	--	68	0	77	6	250	7.4
3-IC249T - TLT 49	24	9	216	Toilet room	NR	N/A (Ref to 170)	--	--	0	0	15	10	50	13.9
3-IC250 - ICU 50	233	9	2097	Critical and intensive care	2	N/A (Ref to 170)	--	--	70	0	77	6	250	7.2
3-IC250T - TLT 50	25	9	225	Toilet room	NR	N/A (Ref to 170)	--	--	0	0	15	10	50	13.3
3-IC251 - ICU 51	225	9	2025	Critical and intensive care	2	N/A (Ref to 170)	--	--	68	0	77	6	250	7.4
3-IC251T - TLT 51	27	9	243	Toilet room	NR	N/A (Ref to 170)	--	--	0	0	15	10	50	12.3
3-IC252 - ICU 52	231	9	2079	Critical and intensive care	2	N/A (Ref to 170)	--	--	70	0	77	6	250	7.2
3-IC252T - TLT 52	23	9	207	Toilet room	NR	N/A (Ref to 170)	--	--	0	0	15	10	50	14.5
3-IC310 - NURSE WORK	213	9	1917	Patient Corridor	NR	N/A (Ref to 170)	--	--	0	0	46	2	150	4.7
3-IC311 - NOUR	72	9	648	Nourishment area or room	NR	N/A (Ref to 170)	--	--	0	0	23	2	75	6.9
3-IC312 - MEDS	111	9	999	Medication room	2	N/A (Ref to 170)	--	--	34	0	54	4	175	10.5
3-IC316 EQUIP STOR	103	9	927	Patient Corridor	NR	N/A (Ref to 170)	--	--	0	0	77	2	250	16.2

FAN SCHEDULE

DESIGNATION	LOCATION	SERVES	CFM	ESP (IN WG)	MAX dBA	FAN DATA TYPE	FAN DATA RPM	FAN DATA DRIVE	ELECTRICAL MOTOR DATA HP	ELECTRICAL MOTOR DATA VOLT / PH	ELECTRICAL MOTOR DATA STARTER	AVAILABLE FAULT (AMPS)	APPROX. WEIGHT (LBS)	MANUF. / MODEL COOK / --	NOTES
EF 06-01	LEVEL 05 ROOF	GENERAL EXHAUST NORTH	10,600	1.14	77	VENT SET	1322	BELT	7.5	460/3	VFD	*	608	245 CPS	ALL
EF 06-02	LEVEL 05 ROOF	GENERAL EXHAUST SOUTH	12,000	1.40	80	VENT SET	1485	BELT	7.5	460/3	VFD	*	608	245 CPS	ALL

NOTES:
1 DISCONNECT SWITCH TO BE INTERLOCKED WITH VFD.
2 PROVIDE MOTORIZED BACKDRAFT DAMPER.
3 PROVIDE BIRDSCREEN.
4 18" HIGH EQUIPMENT SUPPORT.
5 SCROLL DRAIN PLUG, ALL WELDED STEEL FAN HOUSING, ALL WELDED STEEL FAN WHEEL, CLEAN OUT PLATE ON FAN HOUSING, 95% SPRING RUBBER VIBRATION ISOLATORS, MOTOR & DRIVE COVER, FLANGED DUCT OUTLET.
6 TOP HORIZONTAL DISCHARGE.
7 PROVIDE FLEX CONNECTION AT FAN INLET.
8 PROVIDE INLET GUARD AND RAIN HOOD.
9 VFDS TO BE IN NEMA 3R WEATHER TIGHT ENCLOSURES.

*SCCR RATING TO MEET OR EXCEED PANEL AIC RATING

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COLORADO LICENSED 0051899 2/17/23 PROFESSIONAL ENGINEER

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

MECHANICAL SCHEDULES

PROJECT: 45990.00
DATE: 02/17/23

M701

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

2/16/2023 8:50:13 AM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/MEP_459900_TMCA ICU Build-Out.rvt

Drawn By: Author
Checked By: BE
Approved By: Approver

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1 ME- ROOF DEMOLITION PLAN
1/8" = 1'-0"
0' 4' 8' 16' 24'

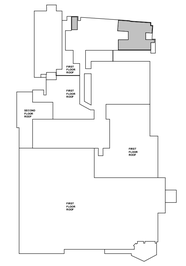
LEGEND NOTES

|
1 | DISCONNECT THE ELECTRICAL CONNECTION TO THE EXISTING EXHAUST FAN AND RECONNECT THE CIRCUIT TO THE NEW FAN. EXTEND THE EXISTING CONDUIT AND CONDUCTORS AS REQUIRED TO REACH THE NEW FAN. REPLACE THE EXISTING DISCONNECTING MEANS WITH A NEW NEMA 3R VFD. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

GENERAL NOTES

A. REFER TO SHEET M0000 FOR GENERAL MECHANICAL NOTES AND SYMBOLS.
B. REFER TO SHEET E0000 FOR GENERAL ELECTRICAL NOTES AND SYMBOLS.

KEY PLAN



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COLORADO LICENSED REGISTERED PROFESSIONAL ENGINEER 0051899 2/17/23

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
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HCA Project No.: 2740000034

Revision		
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ME ROOF DEMOLITION PLAN

MED205

PROJECT: 45990.00
DATE: 02/17/23

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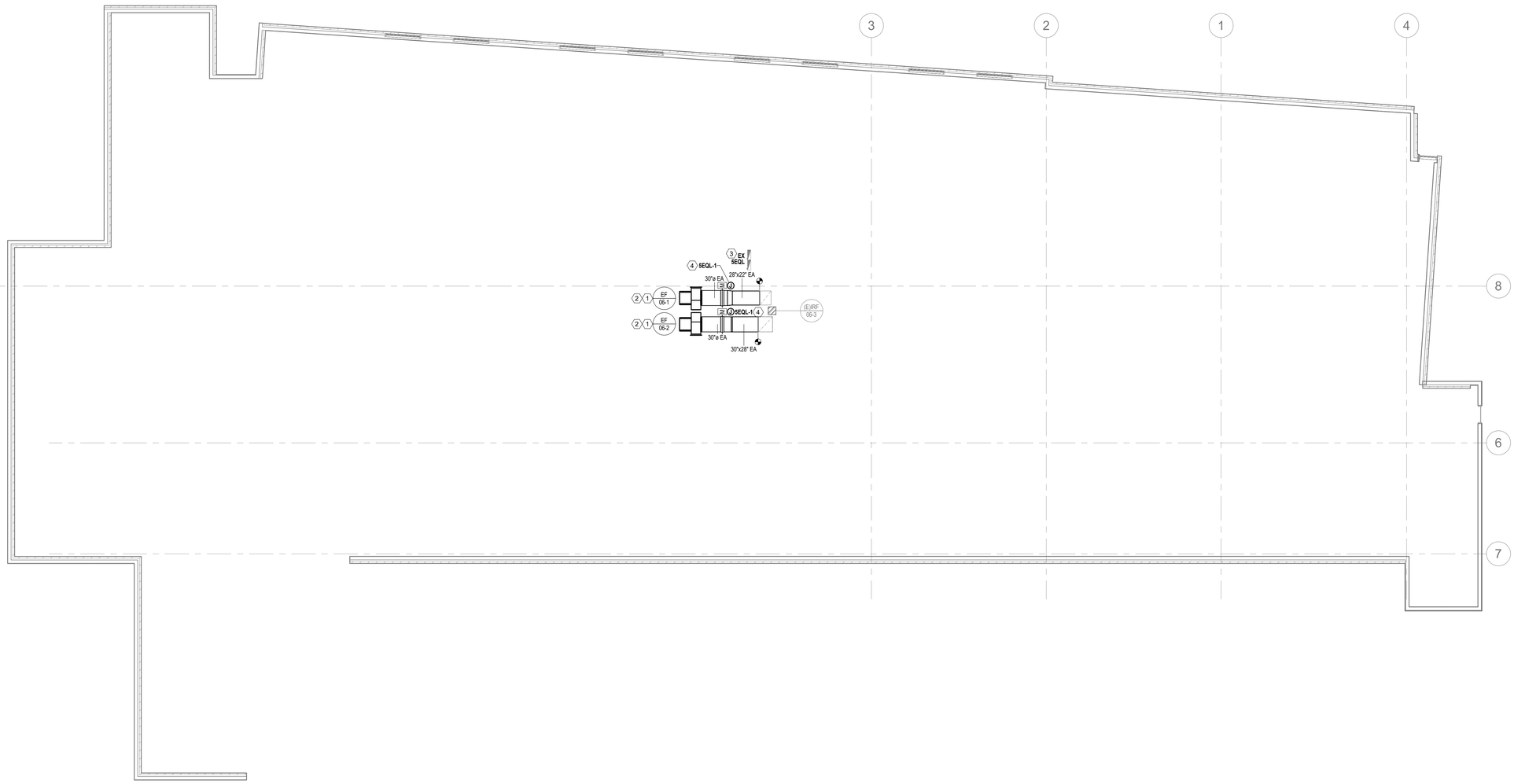

1 ME-ROOF PLAN
1/8" = 1'-0"
0' 4' 8' 16' 24'

LEGEND NOTES

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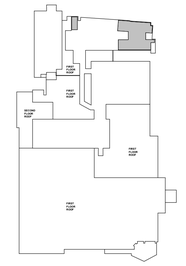
2 REFER TO FAN INSTALLATION DETAIL 03 / M602.
3 APPROXIMATE LOCATION OF PANELBOARD ON LEVEL BELOW.
4 120V CONNECTION TO MOTORIZED DAMPER.

GENERAL NOTES

A. REFER TO SHEET M000 FOR GENERAL MECHANICAL NOTES AND SYMBOLS.
B. REFER TO SHEET E000 FOR GENERAL ELECTRICAL NOTES AND SYMBOLS.

KEY PLAN



TRUE NORTH PLAN NORTH

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COLORADO LICENSED REGISTERED PROFESSIONAL ENGINEER 0051899 2/17/23

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Jun 29, 2023*
2021 INTERNATIONAL CODES & 2020 NEC

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

ME ROOF PLAN

ME205

PROJECT: 45990.00
DATE: 02/17/23

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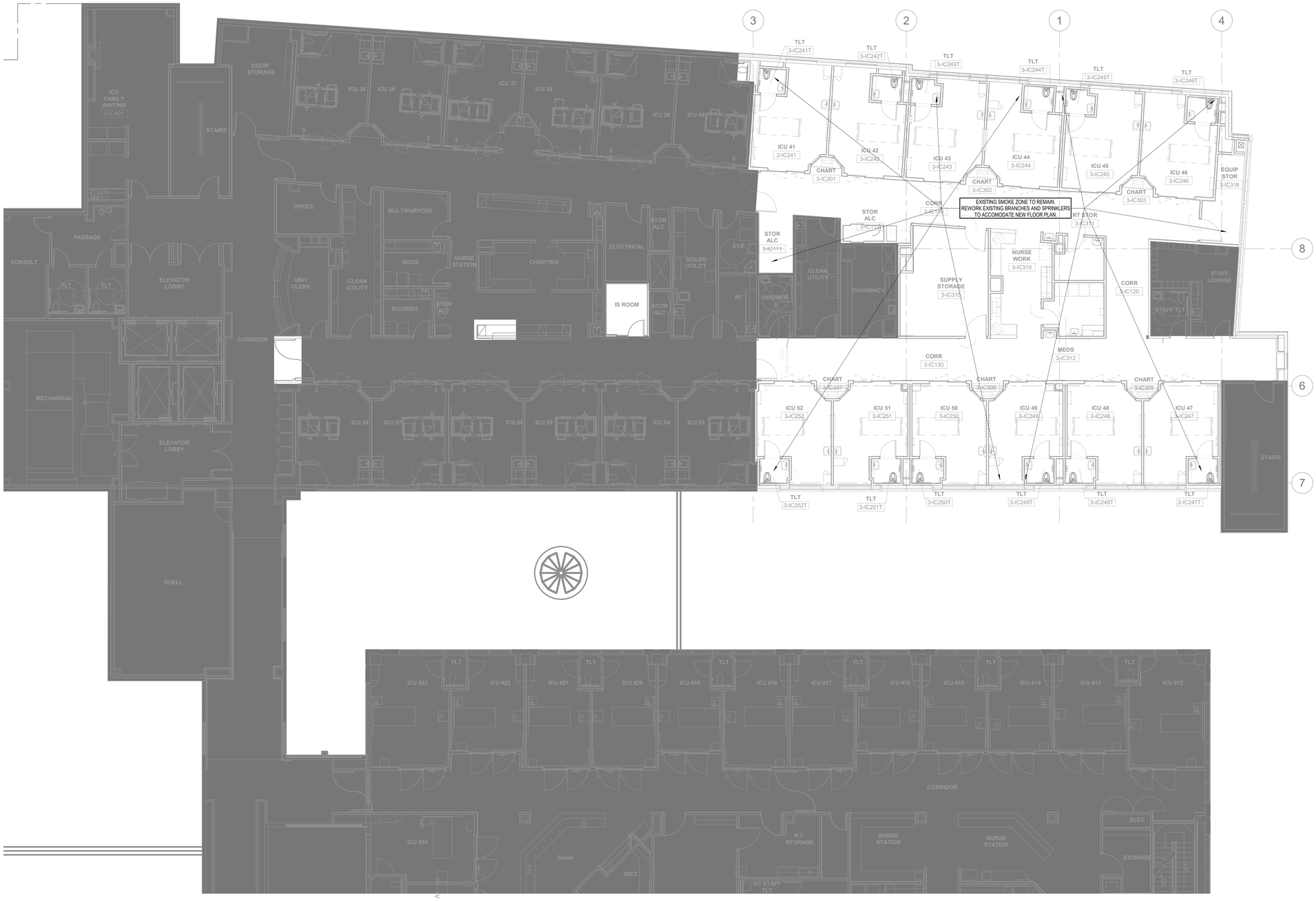

1 THIRD FLOOR - FIRE PROTECTION PLAN
1/8" = 1'-0" 0' 4' 8' 16' 24'

This sheet of drawings has not been reviewed for code compliance.

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COLORADO LICENSED GENERAL ENGINEER 0051899 2/17/23 PROFESSIONAL ENGINEER

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
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HCA Project No.: 2740000034

Revision		
No.	Date	Description

THIRD FLOOR - FIRE PROTECTION PLAN

FP303

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FULL SHEET SIZE = 30"X42"

PROJECT: 45990.00
DATE: 02/17/23

Drawn By: RV
Checked By: BE
Approved By: Approver

FIRE PROTECTION GENERAL NOTES

1. SCOPE: PROVIDE AND INSTALL ALL FIRE PROTECTION WORK AS INDICATED FOR A COMPLETE WORKING SYSTEM.
2. INFORMATION ON THE PLANS IS DIAGRAMMATIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINAL PIPE ROUTING, PIPE SIZING, AND SPRINKLER HEAD LOCATIONS.
3. PERMITS, LICENSES AND FEES: THIS CONTRACTOR SHALL PAY ALL REQUIRED FEES AND SHALL OBTAIN ALL NECESSARY PERMITS AND LICENSES FOR INSTALLATION OF THE WORK TO COMPLETION.
4. APPLICABLE CODES AND REGULATIONS: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING CODES AND REGULATIONS.
   4.1 CURRENT BUILDING CODE
   4.2 NFPA 13, 13R, 14, AND 20 (2010 EDITIONS)
5. COORDINATE WORK WITH ALL TRADES. PROVIDE A COMPLETE HYDRAULICALLY CALCULATED WET PIPE AUTOMATIC SYSTEM FOR TENANT SPACE, WHICH SHALL BE FULLY SPRINKLERED. ALL PIPING AND EQUIPMENT SHALL BE ADEQUATELY SIZED BASED ON HYDRAULIC CALCULATIONS.
6. GENERAL NOTES, DRAWINGS AND SPECIFICATIONS BY THE ARCHITECT SHALL APPLY TO SPRINKLER SCOPE.
7. ALL MATERIAL NOT TO BE USED AND ALL DEBRIS SHALL BE REMOVED FROM SITE AND THE AREA OF WORK SHALL BE LEFT IN CLEAN CONDITION.
8. INSTALLATION OF ALL PIPING, INSULATION, SPRINKLER HEADS AND EQUIPMENT SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER, SHALL CONFORM TO THE LATEST TRADE PRACTICES AND SHALL BE FULLY COORDINATED WITH THE WORK OF ALL OTHER TRADES.
9. ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED WHILE MAINTAINING PROPER SLOPES AND ALLOWING FOR DUCTWORK, LIGHTING, STRUCTURAL BEAMS, ETC.
10. FLEXIBLE CONNECTIONS SHALL BE PROVIDED FOR PIPING CROSSING EXPANSION JOINTS WHERE INSUFFICIENT FLEXIBILITY EXISTS.
11. PIPE SLEEVES: PIPE SLEEVES AND PIPING INSTALLED IN FIRE SEPARATIONS SHALL BE SEALED WITH DCRA FIRE PROTECTION DIVISION APPROVED FIRE STOPPING METHODS AND MATERIALS.
12. ALL FIRE PROTECTION PIPING INSTALLED SHALL BE TESTED AS REQUIRED BY ALL THE AUTHORITIES HAVING JURISDICTION AND TO THE SATISFACTION OF THE OWNER.
13. ALL FIRE PROTECTION WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE FINAL INSTALLATION BY OWNER.
14. ALL AREAS OF THE BUILDING SHALL BE FULLY SPRINKLERED IN ACCORDANCE WITH THE REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION. THE SPRINKLER SYSTEMS SHALL BE HYDRAULICALLY CALCULATED. THE SPRINKLER CONTRACTOR SHALL VERIFY THE ACTUAL WATER SUPPLY AND PRESSURE AVAILABLE FROM THE WATER SUPPLY SYSTEM BEFORE DESIGN. THE ACTUAL WATER SUPPLY AND PRESSURE SHALL BE VERIFIED BY A FLOW TEST, AS REQUIRED BY DCRA FIRE PROTECTION DIVISION.
15. FIRE SPRINKLER ZONES SHALL BE AS INDICATED ON DRAWINGS. EACH SYSTEM ZONE MUST BE FULLY COORDINATED AS NECESSARY WITH FIRE ALARM CONTRACTOR.
16. SUBMIT SHOP DRAWINGS TO ARCHITECT/ENGINEER AND DCRA FIRE PROTECTION DIVISION FOR REVIEW AND APPROVAL PRIOR TO STARTING WORK. ALL FIRE PROTECTION SHOP DRAWING AND CALCULATIONS SHALL BE STAMPED AND SIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
17. INSTALL SPRINKLER HEADS IN THE CENTER OF CEILING TILE UNLESS NOTED OTHERWISE.
18. ALL FIRE PROTECTION WORK SHALL BE BY AN ACCREDITED FIRE PROTECTION CONTRACTOR REGULARLY ENGAGED IN THE BUSINESS FOR AT LEAST FIVE YEARS AND FAMILIAR WITH THIS WORK AND THE REQUIREMENT OF THE APPROVING JURISDICTION.
19. SPRINKLER SHOP DRAWING SHALL INDICATE APROXIMATE AND SPATIAL RELATIONSHIPS WITH ALL BUILDING CHARACTERISTICS AND COMPONENTS AS REQUIRED TO PRODUCE FULLY COORDINATED DRAWINGS. THE SPRINKLER CONTRACTOR SHALL ALSO REVIEW ARCHITECTURAL REFLECTED CEILING PLANS AS NECESSARY TO COORDINATE WITH SPECIAL ARCHITECTURAL FEATURES AND/OR LIGHTING LAYOUTS IN VARIOUS AREAS.
20. EXTEND SPRINKLER PROTECTION BELOW OPEN STAIRS. HEAD LOCATIONS SHALL BE COORDINATED WITH SLOPED CEILING AND LEVEL CONDITIONS UNDER LANDING IN ACCORDANCE WITH NFPA 13.
21. PROVIDE SPRINKLERS WITH CAGE AT TOP OF STAIRWELLS AND UNDER FIRST ACCESSIBLE STAIR LANDING IN ACCORDANCE WITH NFPA 13.

SPRINKLER WORK NOTES

1. THE FIRE PROTECTION CONTRACT DRAWINGS ARE THE "PRELIMINARY PLANS" DEFINED BY NFPA 13, A.23.1 PREPARED FOR PRELIMINARY SUBMISSION TO THE AUTHORITIES HAVING JURISDICTION TO OBTAIN A PERMIT. THE CONTRACT DRAWINGS INDICATE A PARTIAL DESIGN AND SPECIFY THE DESIGN CRITERIA TO BE USED BY THE INSTALLING CONTRACTOR WHO FINALIZES THE SYSTEM LAYOUT AND PROVIDES HYDRAULIC CALCULATIONS. THE PRELIMINARY PLANS ONLY SHOW THE "TENTATIVE LOCATION OF MAJOR PIPING INCLUDING MAINS, RISERS, OVERHEAD MAINS AND FIRE DEPARTMENT CONNECTIONS." THE SPRINKLER AND PIPING LAYOUTS AND PIPE SIZES SHOWN ON THE CONTRACT DRAWINGS ARE TO DEFINE THE BASIC SCOPE FOR PERMITTING AND ARE NOT INTENDED TO BE COMPLETE TAKE OFF BID DOCUMENTS FOR COMPETITIVE BIDDING. THE DRAWINGS ARE DIAGRAMMATIC AND SHALL BE USED IN CONJUNCTION WITH THE SPECIFIED REQUIREMENTS TO PROVIDE COMPLETE, FULLY FUNCTIONAL AND CODE COMPLIANT SYSTEMS.
2. THE WORK OF THE FIRE PROTECTION CONTRACT INCLUDES:
   A. PREPARATION OF WORKING (FABRICATION) DRAWINGS AS DEFINED BY NFPA 13
   B. COMPLETE SPRINKLER PROTECTION IN COMPLIANCE WITH NFPA 13.
   C. COMPLETE STANDPIPE SYSTEMS IN COMPLIANCE WITH NFPA 14.
   D. HYDRAULIC CALCULATIONS FOR THE ACTUAL INSTALLATION CONDITIONS BASED ON THE COORDINATION DRAWINGS.
   E. COORDINATION WITH OTHER TRADES.
   F. ON SITE FIELD SURVEY, MEASUREMENT, DESIGN ADN FABRICATION.
   G. HYDRANT FLOW TESTING TO CONFIRM AVAILABLE WATER SUPPLY.

ABBREVIATIONS - FIRE PROTECTION

AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
BLDG	BUILDING
BOP	BOTTOM OF PIPE
CI	CAST IRON
CONN	CONNECTION
CONT	CONTINUATION
CV	CHECK VALVE
DIA	DIAMETER
DN	DOWN
DROP	DROP (WITHIN FLOOR)
DWG	DRAWING
EL	ELEVATION
FDC	FIRE DEPARTMENT CONNECTION
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FHVC	FIRE HOSE VALVE CABINET
FL	FLOOR
FLH	FLOOR HYDRANT
FP	FIRE PUMP
FS	FLOW SWITCH
FSP	FIRE STANDPIPE
FT	FEET
GAL	GALLONS
GPM	GALLONS PER MINUTE
GV	GATE VALVE
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
IW	INDIRECT WASTE
JP	JOCKEY PUMP
MIN	MINIMUM
(N)	NEW
NC	NORMALLY CLOSED
NIC	NOT IN THIS CONTRACT
NO	NORMALLY OPEN
OD	OUTSIDE DIAMETER
OS&Y	OUTSIDE SCREW & YOKE GATE VALVE
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH (GAUGE)
RISE	RISE (WITH IN FLOOR)
SF	SQUARE FEET
SP	STANDPIPE
SPKR	SPRINKLER
SSV	SEISMIC SAFETY VALVE
TDH	TOTAL DISCHARGE HEAD
TOP	TOP OF PIPE
TOS	TOP OF SLAB
TS	TAMPER SWITCH
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UP	UP (PENETRATES FLOOR SLAB)

SYMBOL LEGEND

	Y STRAINER WITH BLOW OFF VALVE
	PRESSURE GAUGE AND COCK
	WATER FLOW SWITCH
	BASKET STRAINER
	VALVE (SPECIFICATION FOR TYPE)
	CHECK VALVE
	PRESSURE REDUCING VALVE
	OS&Y (OUTSIDE SCREW & YOKE) VALVE
	AUTOMATIC FLOW CONTROL VALVE
	BUTTERFLY VALVE (MANUAL)
	GLOBE VALVE
	CALIBRATED BALANCING VALVE
	VALVE WITH TAMPER SWITCH
	SEISMIC VALVE
	RELIEF VALVE
	ANGLE RELIEF VALVE
M	METER
	FIRE DEPARTMENT CONNECTION
	FIRE DEPARTMENT TEST HEADER
	FIRE HOSE VALVE
	FIRE HOSE VALVE CABINET
	FIRE DEPT. HOSE VALVE W/ CAP & CHAIN
	ROOF MANIFOLD
	SPRINKLER FLOOR CONTROL VALVE ASSEMBLY
	NEW FIRE HYDRANT
	EXISTING FIRE HYDRANT
#	HYDRAULIC REF. POINTS (ELEMENT)
#	HYDRAULIC REF. POINTS (NODE)
	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	CONCEALED PENDANT SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	EXTENDED COVERAGE SPRINKLER HEAD
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	PIPE DOWN
	PIPE UP
	CAP
	ARROW INDICATES DIRECTION OF FLOW

MISCELLANEOUS

P 1	P = SAN, VENT STACK OR DOMESTIC WATER RISER ST = STORM DRAIN LEADER RISER — RISER / RISER NO. F = FIRE STANDPIPE RISER
CP 1	EQUIPMENT DESIGNATION — EQUIPMENT / EQUIPMENT NO.
1 P2.1	DETAIL DESIGNATION — DETAIL NUMBER / DWG. SHEET NO.
1	SHEET NOTE NUMBER
1	REVISION NUMBER

PIPING LEGEND

FIRE PROTECTION

F	FIRE WATER SUPPLY
SP	SPRINKLER PIPING
FSP	FIRE STANDPIPE
DR	SPRINKLER DRAIN PIPING

FLOW TEST REPORT

FIRE DEPARTMENT

LOCATION: GRAND CENTRAL PKWY AND SYMPHONY PARK AVE.
DATE: COMPUTER ANALYSIS MODELING
TIME: NA
RESIDUAL PRESSURE: 51 PSI
MAXIMUM FLOW: 1500 GPM

This sheet of drawings has not been reviewed for code compliance.

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GreshamSmith.com

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COLORADO LICENSED PROFESSIONAL ENGINEER BENJAMIN WEERTS 0051899 2/17/23

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

FIRE PROTECTION LEGENDS, NOTES, AND ABBREVIATIONS

FP000

PROJECT: 45990.00
DATE: 02/17/23

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

2/16/2023 8:48:42 AM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/MEP_459900_TMCA ICU Build-Out.rvt

Drawn By: RV
Checked By: BE
Approved By: Approver

PLUMBING SYMBOLS

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATICALLY AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
	CONNECT NEW TO EXISTING
	POINT OF DISCONNECT
	BALANCING VALVE
	BUTTERFLY VALVE
	BALL VALVE
	STRAINER
V	VACCUUM BREAKER
FD	FLOOR DRAIN
FS	FLOOR SINK
	PRESSURE GAUGE WITH GAUGE COCK
	THERMOMETER WITH SHUT-OFF COCK
WCO	WALL CLEANOUT
CO CO	CLEANOUT PLUG
	DIRECTION OF FLOW
	CAP OUTLET OR PLUGGED OUTLET
	UNION

PROJECT DESIGN CRITERIA

LOCATION:	
CITY/STATE	AURORA, COLORADO
APPLICABLE CODES:	
BUILDING	2021 IBC*
MECHANICAL	2021 IMC*
PLUMBING	2021 IPC*
ENERGY	2021 IECC*
ELECTRICAL	2020 NEC*
FIRE	2021 IFC*
LATITUDE:	
DEG. N. LAT.	39.69
ELEVATION:	
FT. ABOVE SEA LEVEL	5280

* WITH CITY OF AURORA BUILDING CODE AMENDMENTS.

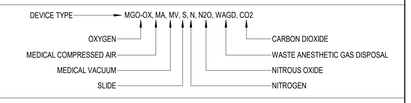
MEDICAL GAS SYMBOLS

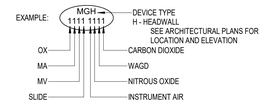
ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATICALLY AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
O	MEDICAL OXYGEN PIPING
MA	MEDICAL AIR PIPING
MV	MEDICAL VACUUM PIPING
AAP	AREA ALARM PANEL
ZVB	ZONE VALVE BOX

MEDICAL GAS LEGEND

MAI	MEDICAL AIR INTAKE	MA	MEDICAL COMPRESSED AIR
MAP	MASTER ALARM PANEL	MV	MEDICAL VACUUM
MGB	MEDICAL GAS CEILING BOOM	O	OXYGEN
MGD	MEDICAL GAS DROP	S	SLIDE
MGO	MEDICAL GAS WALL OUTLET	N	NITROGEN
MGP	MEDICAL GAS PEDESTAL	N2O	NITROUS OXIDE
MVE	MEDICAL VACUUM EXHAUST	CO2	CARBON DIOXIDE
NCP	NITROGEN CONTROL PANEL	WAGD	WASTE ANESTHETIC GAS DISPOSAL
ME	MEDICAL EQUIPMENT - COMPRESSED AIR (FOR BRAKES ON MEDICAL BOOMS)	AAP	AREA ALARM PANEL
		ZVB	ZONE VALVE BOX





MEDICAL GAS NOTES
A. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF MEDICAL GAS OUTLETS, ZONE VALVE BOXES, AND ALARM ALARM PANELS.
B. NOT ALL GASES ARE TO BE USED AT EACH LOCATION. THE GAS ORDER SHOWN IN THE EXAMPLE IS TYPICAL FOR ALL OUTLETS.
C. COORDINATE MEDICAL GAS PIPE ROUTINGS WITH ALL OTHER TRADES BEFORE INSTALLATION.

PIPE MATERIALS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATICALLY AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	PIPING MATERIAL
F / FS	FIRE PROTECTION PIPING	UNDERGROUND SERVICE PIPING: DUCTILE IRON, GROOVED-END PIPE WITH CORROSION PROTECTIVE ENCASEMENT. STANDPIPE SYSTEM: STANDARD WEIGHT BLACK OR GALVINIZED STEEL THREADED, WELDED OR GROOVED-END PIPING. SPRINKLER SYSTEM: 2" AND SMALLER SHALL BE STANDARD WEIGHT STEEL THREADED PIPE: 2-1/2" AND LARGER STANDARD WEIGHT STEEL THREADED, WELDED OR GROOVED-END PIPING.
SS	SANITARY SEWER PIPING	ABOVE GROUND: SERVICE CLASS CAST-IRON SOIL PIPE AND FITTINGS, HUBLESS PIPE AND FITTINGS WITH HEAVY DUTY SS COUPLINGS. CONSIDERATION.
– – – – –	SANITARY VENT PIPING	ABOVE GROUND: SERVICE CLASS CAST-IRON SOIL PIPE AND FITTINGS, HUBLESS PIPE AND FITTINGS WITH HEAVY DUTY SS COUPLINGS. CONSIDERATION.
– – –	DOMESTIC COLD WATER PIPING	TYPE "L" HARD DRAWN COPPER PIPING - COPPER PRESSURE FITTINGS AND SOLDERED JOINTS.
– – –	DOMESTIC HOT WATER PIPING	TYPE "L" HARD DRAWN COPPER PIPING - COPPER PRESSURE FITTINGS AND SOLDERED JOINTS.
– – –	DOMESTIC HOT WATER RETURN PIPING	TYPE "L" HARD DRAWN COPPER PIPING - COPPER PRESSURE FITTINGS AND SOLDERED JOINTS.
D	EQUIPMENT OR DRAIN PAN PIPING	TYPE "L" HARD DRAWN COPPER PIPING - COPPER PRESSURE FITTINGS AND SOLDERED JOINTS.

PLUMBING FIXTURE SCHEDULE

TAG	TYPE	CONNECTION SIZES WASTE	VENT	CW	HW	DESCRIPTION	NOTES
P-103	WATER CLOSET PATIENT	4"	2"	1"	-	WATER CLOSET: ZURN MODEL NO Z5665-BWL (WHITE) FLUSH VALVE WATER CLOSET, VITREOUS CHINA, 16-3/4" RIM HEIGHT, 10" ROUGHING-IN, LOW CONSUMPTION 1.28 GALLONS PER FLUSH, ELONGATED BOWL, DIRECT FED SIPHON JET ACTION, FULLY GLAZED TRAPWAY, 1-1/2" TOP SPUD.	INSTALL WITH WATER HAMMER ARRESTOR. SEE DETAIL 5 ON SHEET P5.10.
						FLUSH VALVE: ZURN MODEL NO. Z6000AV-BWN-WS1 BED PAN WASHER, 1.6 GPF, EXPOSED, QUIET DIAPHRAGM-TYPE, CHROME PLATED, FLUSHOMETER VALVE WITH A POLISHED EXTERIOR. CHLORAMINE RESISTANT, DUAL SEAL DIAPHRAGM WITH CLOG RESISTANT, TRIPLE FILTERED BY-PASS. ADA COMPLIANT WITH A NON-HOLD OPEN AND NO LEAK HANDLE FEATURE, BEDPAN WASHER ASSEMBLY, WALL BRACKET AND SUPPORT ROD, HIGH BACK PRESSURE VACUUM BREAKER, ONE-PIECE BOTTOM HEX COUPLING NUT.	
						SEAT: PROFLO MODEL NO. PFTSCOF2000WH, WHITE OPEN SEAT FRONT LESS COVER, WITH SELF SUSTAINING CHECK HINGE.	
P-301	LAVATORY - WALL HUNG PUBLIC - ADA COMPLIANT	2"	2"	1/2"	1/2"	LAVATORY: ZURN MODEL NO Z5344 WALL HUNG LAVATORY, VITREOUS CHINA.	
						FAUCET: ZURN MODEL NO. Z812A4-XL-FC.5 4" FIXED CENTERS RIGID OR SWING GOOSENECK SPOUT, WITH 0.5 GPM FLOW CONTROL IN BASE OF SPOUT, WITH 4" WRISTBLADE HANDLES.	
						MIXING VALVE: WILKINS MODEL NO. ZW3870XLT-4PC POINT OF USE THERMOSTATIC MIXING VALVE, ASSE 1070 LISTED.	
						STRAINER AND TAILPIECE: PROFLO MODEL NO. PFGD100 1-1/4" X 6" CP GRID DRAIN AND TAILPIECE.	
						P-TRAP: PROFLO MODEL NO. PFPTB400 CHROME PLATED CAST BRASS BODY P-TRAP, TUBULAR BRASS WALL BEND AND NO. PF202WH TRAP WRAP KIT.	
						STOPS AND RISERS: PFXQAC32C LEAD FREE ½ TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS.	
						CARRIER: ZURN MODEL Z21231 FLOOR MOUNTED CARRIER.	
P-304	LAVATORY - WALL HUNG - ADA COMPLIANT - PATIENT	2"	2"	1/2"	1/2"	LAVATORY: ZURN MODEL NO Z5344 WALL HUNG LAVATORY, VITREOUS CHINA, PATIENT	
						FAUCET: ZURN MODEL NO. Z812A4-XL-FC1.5 4" FIXED CENTERS RIGID OR SWING GOOSENECK SPOUT, WITH 1.5 GPM FLOW CONTROL IN BASE OF SPOUT, WITH 4" WRISTBLADE HANDLES.	
						MIXING VALVE: WILKINS MODEL NO. ZW3870XLT-4PC POINT OF USE THERMOSTATIC MIXING VALVE, ASSE 1070 LISTED.	
						STRAINER AND TAILPIECE: PROFLO MODEL NO. PFGD100 1-1/4" X 6" CP GRID DRAIN AND TAILPIECE.	
						P-TRAP: PROFLO MODEL NO. PFPTB400 CHROME PLATED CAST BRASS BODY P-TRAP, TUBULAR BRASS WALL BEND AND NO. PF202WH TRAP WRAP KIT.	
						STOPS AND RISERS: PFXQAC32C LEAD FREE ½ TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS.	
						CARRIER: ZURN MODEL Z21231 FLOOR MOUNTED CARRIER.	
P-807	DIALYSIS BOX	1-1/2"	-	1/2"	-	BRADLEY MODEL 7909VB TYPE 304 STAINLESS STEEL RECESSED HOSE BOX WITH SINGLE 1/2" BRASS VALVE AND 3/4" HOSE CONNECTION WITH VACUUM BREAKER. 1-1/2" DRAIN CONNECTION.	USE NON-POTABLE WATER CONNECTION FOR COLD WATER CONNECTION. REFER TO ARCHITECTURAL PLANS FOR ELEVATION AND LOCATION.

GENERAL NOTES - PLUMBING

A. ALL MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR MECHANICAL AND PLUMBING CONSTRUCTION.
B. INDICATED LOCATIONS ARE APPROXIMATE.
C. COORDINATE WITH OWNER AND PERSONNEL THE SHUT-DOWN OF THE EXISTING SITE UTILITIES.
D. ROUTE ALL PLUMBING PIPING AS TIGHT AS POSSIBLE TO STRUCTURE. PIPING SHALL BE INSTALLED PARALLEL/PERPENDICULAR TO WALLS AND COLUMN LINES.
E. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED FOR A COMPLETE WORKING AND COORDINATED SYSTEM.
F. COORDINATE THE EXACT LOCATION OF MECHANICAL, PLUMBING, AND FIRE PROTECTION EQUIPMENT WITH THE LOCATIONS OF LIGHT FIXTURES, PIPING, CONDUIT, AND OTHER CONSTRUCTION, TO ALLOW FOR PROPER ACCESS TO SERVICE EQUIPMENT.
G. COORDINATE ALL NEW WORK WITH ALL TRADES. WORK SHOWN ON THESE DRAWINGS ARE INTENDED TO PROVIDE THE OVERALL ENGINEERING DESIGN CONCEPT AND DOES NOT PROVIDE FOR RELOCATIONS, OFFSETS, ETC., THAT ARE REQUIRED BY THE COORDINATION OF TRADES. THIS ADDITIONAL WORK SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.
H. IT IS THE REQUIREMENT OF THESE DOCUMENTS TO ALLOW ALL CEILING CONSTRUCTION AND HEIGHTS TO BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS. COORDINATE THE LOCATION OF PIPING AND PROVIDE OFFSETS IN PIPING AS REQUIRED TO MEET THIS REQUIREMENT.
I. CONDUIT, PIPING, AND DUCTWORK SHALL BE INDEPENDENTLY SUPPORTED, AND EACH SUPPORT SHALL BE INDEPENDENT OF PARTITION AND CEILING SYSTEM SUPPORTS. WHERE INDEPENDENT SUPPORT IS NOT POSSIBLE AN ENGINEERED SUPPORT SYSTEM SHALL BE UTILIZED.
J. INSTALL ALL FLOOR MOUNTED EQUIPMENT ON CONCRETE HOUSEKEEPING PADS. GENERAL CONTRACTOR SHALL PROVIDE HOUSEKEEPING PADS, COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.
K. ALL WORK SHALL BE SCHEDULED AND PERFORMED IN STRICT COORDINATION WITH ARCHITECTURAL PHASING PLANS. CONTRACTOR SHALL SCHEDULE AND PERFORM WORK IN SEQUENCE WITH THE PHASING PLAN.
L. PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION.
M. REMOVE ALL EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. TOUCH UP WITH PAINT WHERE REQUIRED.
N. ALL CONNECTIONS BETWEEN PIPES OF DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC UNIONS.
O. LOCATE ISOLATION VALVES FOR EQUIPMENT AS CLOSE TO THE MAIN AS POSSIBLE.
P. PROVIDE CLEANOUTS AT THE BASE OF ALL STORM AND SANITARY STACKS.
Q. ALL SANITARY SEWER AND STORM DRAIN SYSTEM WALL CLEANOUTS SHALL BE PLACED AT 18" AFF UNLESS OTHERWISE NOTED.
R. COORDINATE ALL FIRE PROTECTION SPRINKLER LOCATIONS AND MOUNTING STYLES WITH LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS.
S. DO NOT ROUTE PIPING INSIDE ELECTRICAL AND COMMUNICATION ROOMS. IN UNAVOIDABLE INSTANCES, ALL EQUIPMENT SHALL BE PROTECTED FROM OVERHEAD PIPING WITH DRAIN PANS. ROUTE DRAIN FROM DRAIN PANS TO NEAREST FLOOR DRAIN IN MECHANICAL AREAS. WHERE NO FLOOR DRAIN IS ACCESSIBLE ROUTE AS INDIRECT WASTE TO PLUMBING FIXTURE AS INDICATED ON CONTRACT DRAWINGS, OR NEAREST LAVATORY TAILPIECE. PROVIDE SENSOR IN DRAIN PAN TO SEND ALARM TO BAS IN CASE OF LEAKAGE INTO PAN.
T. EACH SUBCONTRACTOR SHALL PROVIDE ADEQUATELY SIZED ACCESS DOORS TO PROVIDE REQUIRED ACCESS THROUGH HARD SURFACES TO THEIR WORK REQUIRING ACCESS (ANY FLOW DEVICES, VALVES, ETC.). SUBCONTRACTOR IS ALSO REQUIRED TO PROVIDE ADEQUATE LOCATION INFORMATION SO ACCESS CAN BE INSTALLED BY INTERIORS SUBCONTRACTOR.
U. REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL TYPES.
V. ALL PLUMBING PIPING SHALL BE IDENTIFIED IN ACCORDANCE WITH THE SPECIFICATIONS.
W. SLOPE AND ARRANGE WATER PIPING SYSTEMS TO ESTABLISH HIGH POINTS FOR AIR ELIMINATION AND LOW POINTS TO PERMIT PROPER DRAINING OF EACH LINE.
X. COORDINATE ALL PIPING FLOOR PENETRATIONS WITH STRUCTURAL.
Y. SPACE LOCATIONS FOR MATERIALS, EQUIPMENT AND FIXTURES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT OR FIXTURES OF A PARTICULAR MANUFACTURER WHETHER INDICATED OR NOT. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND FIXTURES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE.
Z. PIPE PENETRATIONS THROUGH WALLS SHALL MAINTAIN THE CONSTRUCTION/FIRE RATING OF THE WALL.
AA. SPACE LOCATIONS FOR MATERIALS, EQUIPMENT AND FIXTURES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT OR FIXTURES OF A PARTICULAR MANUFACTURER WHETHER INDICATED OR NOT. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND FIXTURES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE.
AB. PIPE PENETRATIONS THROUGH WALLS SHALL MAINTAIN THE CONSTRUCTION/FIRE RATING OF THE WALL.
AC. REFER TO STRUCTURAL ENGINEER FOR METHOD OF PIPE PENETRATIONS THROUGH STRUCTURAL MEMBERS (BEAMS, JOISTS, ...). COORDINATE ALL PENETRATIONS THROUGH STRUCTURAL MEMBERS WITH STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
AD. INSULATE THE FIRST 20 FEET OF CONNECTED DRAIN PIPING RECEIVING CONDENSATE AND/OR ICE MACHINE WASTE.
AE. COORDINATE VTR LOCATIONS WITH AIR INTAKE/EXHAUST LOCATIONS. THERE SHALL BE AT LEAST 25 FEET DISTANCE BETWEEN INTAKE AND EXHAUST LOCATIONS.
AF. PROVIDE TRAP PRIMER FOR ALL FLOOR DRAINS AND FLOOR SINKS, UNLESS OTHERWISE NOTED.
AG. PROVIDE SHOCK ARRESTORS AT ENDS OF DCW & DHW PIPING RUNS, AT ALL QUICK-CLOSING FIXTURES SUCH AS FLUSH VALVES AND ELECTRONIC/INFRARED FAUCETS, AND FOR GROUP OF FIXTURES. SHOCK ARRESTORS SHALL BE PLACED AS CLOSE AS POSSIBLE TO THE LAST FIXTURE SERVED ON THE PIPING RUN. COORDINATE LOCATION OF SHOCK ARRESTORS WITH ARCHITECTURAL DRAWINGS.
AH. PROVIDE OFFSETS OR EXPANSION LOOPS IN DHW/DHWR LINES IF STRAIGHT LENGTH EXCEEDS 100' IN LENGTH.
AI. PROVIDE BALL AND FLOAT BACKWATER VALVES FOR ALL OPEN SITE DRAINS.
AJ. PROVIDE ISOLATION VALVES AT EACH BRANCH TIE IN TO MAIN PLUMBING LINES, AT EACH PIECE OF EQUIPMENT, AT EACH TOILET ROOM GROUP OF FIXTURES, OR AT OTHER ROOMS THAT MAY HAVE MULTIPLE FIXTURES.
AK. REFER TO STRUCTURAL DRAWINGS FOR REQUIREMENTS OF ALL FLOOR PENETRATIONS.

GENERAL NOTES - FIRE PROTECTION

A. FIRE PROTECTION CONTRACTOR SHALL REFER TO THE PLUMBING DRAWINGS FOR SCOPE OF WORK INCLUDING THE GENERAL NOTES ON THIS SHEET.
B. THE BUILDING'S FIRE PROTECTION SYSTEM MUST REMAIN IN SERVICE DURING CONSTRUCTION. FIRE PROTECTION ENGINEER IS RESPONSIBLE FOR EXTENT OF DEMOLITION, RELOCATION, AND RENOVATION OF THE FIRE PROTECTION SYSTEM.
C. DESIGN OF THE SPRINKLER SYSTEM SHALL BE UNDER DIRECT SUPERVISION OF AN RME (RESPONSIBLE MANAGING EMPLOYEE) EXPERIENCED IN DESIGN OF THIS WORK AND LICENSED IN THE STATE OF COLORADO. ALL DESIGN SUBMITTAL DOCUMENTS SHALL BEAR THE RME'S SIGNED AND DATED REGISTRATION NUMBER. THE SYSTEM SHALL BE INSTALLED BY A FIRM HAVING MINIMUM THREE YEARS EXPERIENCE REGULARLY ENGAGED IN THE DESIGN AND INSTALLATION OF AUTOMATIC FIRE PROTECTION SYSTEMS IN ACCORDANCE WITH REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND THE STATE OF COLORADO FIRE MARSHALL'S OFFICE. EVIDENCE TO SUPPORT THE ABOVE REQUIREMENTS SHALL BE SUBMITTED WITH SHOP DRAWINGS. WORKING PLANS SHALL BE SEALED BY AN ENGINEER REGISTERED BY THE COLORADO STATE BOARD FOR PROFESSIONAL ENGINEERS IN THE FIRE PROTECTION SPECIALTY.
D. PROVIDE STANDARD QUICK RESPONSE SPRINKLER HEADS FOR ALL AREAS, UNLESS OTHERWISE NOTED. PROVIDE ANTI-LIGATURE/BEHAVIORAL HEALTH GRADE SPRINKLER HEADS IN INPATIENT AREAS. (TYCO RAVEN, RECESSED TYPE).
E. COORDINATE SPRINKLER AND FIRE MAIN LOCATIONS WITH ALL TRADES.
F. COORDINATE ALL FIRE PROTECTION SPRINKLER LOCATIONS AND MOUNTING STYLES WITH LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS.

ABBREVIATIONS - PLUMBING

(E)	EXISTING	HW	DOMESTIC HOT WATER
(F)	FUTURE	HWR	DOMESTIC HOT WATER RETURN
(N)	NEW	IE	INVERT ELEVATION
(R)	EXISTING TO BE RELOCATED	IN	INCH
A/C	ABOVE CEILING	INV	INVERT
ABV	AUTOMATIC BALANCING VALVE	IW	INDIRECT WASTE
AC	AIR CHAMBER	JP	JOCKEY PUMP
AD	AREA DRAIN	JS	JANITOR SINK
AFF	ABOVE FINISHED FLOOR	L	LAVATORY
AFG	ABOVE FINISHED GRADE	LCW	LAB COLD WATER
AP	ACCESS PANEL	LHW/SOLAR	LAB HOT WATER
AW	ACID WASTE	MH	MANHOLE
BFF	BELOW FINISHED FLOOR	MS	MOP SINK
BG	BELOW GRADE	NC	NORMALLY CLOSED
BLDG	BUILDING	NIC	NOT IN THIS CONTRACT
BOP	BOTTOM OF PIPE	NF	NON-FREEZE
BT	BATHTUB	NO	NORMALLY OPEN
BV	BALANCING VALVE	NPW	NON-POTABLE
CCP	COIL CONDENSATE PUMP	OD	OVERFLOW DRAIN
CD	CONDENSATE DRAIN	OS&Y	OUTSIDE SCREW & YOKE GATE VALVE
CFS	CLEAN FUEL SUPPLY	PC	PUMPED CONDENSATE
CFR	CLEAN FUEL RETURN	PD	PLANTER DRAIN
CLG	CEILING	POC	POINT OF CONNECTION
CO	CLEANOUT	PRV	PRESSURE REDUCING VALVE
CONN	CONNECTION	PSI	POUNDS PER SQUARE INCH
CONT	CONTINUATION	PW	PURIFIED WATER
CP	CIRCULATION PUMP	PWR	PURIFIED WATER RETURN
CS	CLINICAL SINK	RD	ROOF DRAIN
CV	CHECK VALVE	RI & C	ROUGH-IN AND CONNECT
CW	DOMESTIC COLD WATER	RISE	RISE (WITH IN FLOOR)
DF	DRINKING FOUNTAIN	ROR	REVERSE OSMOSIS RETURN WATER
DN	DOWN	ROS	REVERSE OSMOSIS SUPPLY WATER
DR	DRAIN	RPPBP	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
DROP	DROP (WITHIN FLOOR)	SA	SHOCK ABSORBER
DS	DOWNSPOUT	SAN, SS	SANITARY
DSN	DOWNSPOUT NOZZLE	SD	STORM DRAIN PIPING
DWG	DRAWING	SF	SQUARE FEET
EEW	EMERGENCY EYE WASH	SH	SHOWER
EL	ELEVATION	SK	SINK
EOSC	EMERGENCY OXYGEN SUPPLY CONNECTION	SMR	SNOW MELT RETURN
ET	EXPANSION TANK	SMS	SNOW MELT SUPPLY
EWC	ELECTRIC WATER COOLER	SOS	SAND-OIL SEPARATOR
EWH	ELECTRIC WATER HEATER	SP	SUMP PUMP
FCA	FIRE SPRINKLER CONTROL VALVE	SPKR	SPRINKLER
FCO	FLOOR CLEANOUT	TD	TRENCH DRAIN
FD	FLOOR DRAIN	TMV	TEMPERATURE MIXING VALVE
FDC	FIRE DEPARTMENT CONNECTION	TP	TRAP PRIMER
FDV	FIRE DEPARTMENT VALVE	TW	TEMPERED WATER
FF	FINISHED FLOOR	TYP	TYPICAL
FHC	FIRE HOSE CABINET	UP	UP (PENETRATES FLOOR SLAB)
FLR	FLOOR	UR	URINAL
FOR	FUEL OIL RETURN	V	VENT
FOS	FUEL OIL SUPPLY	VB	VACUUM BREAKER
FP	FIRE PUMP	VR	VENT RISER
FS	FLOOR SINK	VTR	VENT THROUGH ROOF
FT	FEET	WC	WATER CLOSET
GC	GENERAL CONTRACTOR	WCO	WALL CLEANOUT
GPM	GALLONS PER MINUTE	WF	WATER FILTER
GV	GATE VALVE	WFU	WATER FIXTURE UNIT
HB	HOSE BIBB	WH	WALL HYDRANT
HD	HUB DRAIN	WTS	WATER TIGHT SLEEVE

RSN: 1707621
Permit #: 23-2315197 LT

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Y. Munoz
Date: Jun 29, 2023
2021 INTERNATIONAL CODES & 2020 NEC

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Y. MUNOZ
Date: Jun 14, 2023
2021 INTERNATIONAL CODES & 2020 NEC
ISSUED SUBJECT TO CONDITIONS

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COLORADO LICENSED REGISTERED 0051899 6/1/23 PROFESSIONAL ENGINEER

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

PLUMBING LEGENDS, NOTES, AND ABBREVIATIONS

P000

PROJECT: 45990.00
DATE: 02/17/23

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

6/5/2023 2:10:49 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/MEP_45990_TMCA ICU Build-Out.rvt

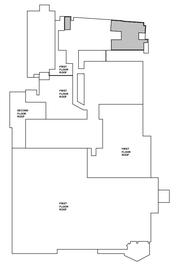
Drawn By: RV
Checked By: BE
Approved By: Approver

This sheet of drawings has not been reviewed for code compliance.

1 THIRD FLOOR - PLUMBING DEMOLITION PLAN
1/8" = 1'-0" 0' 4' 8' 16' 24'

LEGEND NOTES

KEY PLAN



TRUE NORTH PLAN NORTH

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COLORADO LICENSED BENJAMIN A. WEERTS 0051899 2/17/23 PROFESSIONAL ENGINEER

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

THIRD FLOOR - PLUMBING DEMOLITION PLAN

PD203

PROJECT: 45990.00
DATE: 02/17/23

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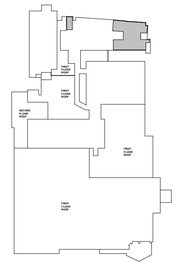
Drawn By: RV
Checked By: BE
Approved By: Approver

1 THIRD FLOOR - MEDICAL GAS DEMOLITION PLAN
1/8" = 1'-0"

0' 4' 8' 16' 24'

LEGEND NOTES

KEY PLAN



TRUE NORTH PLAN NORTH

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THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

THIRD FLOOR - MEDICAL GAS DEMOLITION PLAN

PD303

PROJECT: 45990.00
DATE: 02/17/23

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
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2/16/2023 8:52:42 AM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/MEP_459900_TMCA ICU Build-Out.rvt

Drawn By: RV
Checked By: BE
Approved By: Approver

1 THIRD FLOOR - MEDICAL GAS DEMOLITION PLAN
1/8" = 1'-0"

LEGEND NOTES

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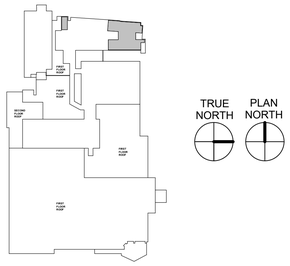
KEY PLAN



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COLORADO LICENSED PROFESSIONAL ENGINEER 0051899 2/17/23

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
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HCA Project No.: 2740000034

Revision		
No.	Date	Description

THIRD FLOOR - MEDICAL GAS DEMOLITION PLAN

PD303

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DATE: 02/17/23

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THE CITY OF AURORA BUILDING DIVISION DOES NOT PERMIT, REVIEW OR INSPECT BACKFLOW PREVENTION DEVICES ON BUILDING DOMESTIC WATER ENTRY. PLEASE CONTACT AURORA WATER - WATER SERVICE CROSS CONNECTION CONTROL 303-326-8510

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Jun 29, 2023*
2021 INTERNATIONAL CODES & 2020 NEC

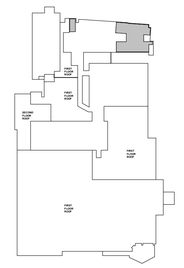
1 SECOND FLOOR - PLUMBING PLAN
1/8" = 1'-0" 0' 4' 8' 16' 24'

LEGEND NOTES

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. **2021 IBC 105.4**

THIS WORK MUST ALSO COMPLY WITH **2021 IECC**

KEY PLAN



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COLORADO LICENSED BENJAMIN WEERTS 0051899 2/17/23 PROFESSIONAL ENGINEER

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
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HCA Project No.: 2740000034

Revision		
No.	Date	Description

SECOND FLOOR - PLUMBING PLAN

P202.1

PROJECT: 45990.00
DATE: 02/17/23

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
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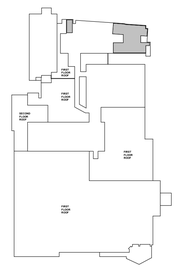
Approved By: Approver

1 THIRD FLOOR - PLUMBING PLAN
1/8" = 1'-0"
0' 4' 8' 16' 24'

LEGEND NOTES

KEY PLAN



TRUE NORTH PLAN NORTH

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Jun 29, 2023*
2021 INTERNATIONAL CODES & 2020 NEC

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THIRD FLOOR - PLUMBING PLAN

P203.1

PROJECT: 45990.00
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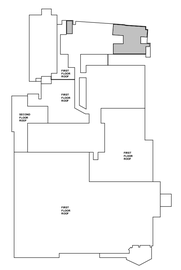
1 THIRD FLOOR - MEDICAL GAS PLAN
1/8" = 1'-0"
0' 4' 8' 16' 24'

LEGEND NOTES

KEY PLAN



TRUE NORTH
PLAN NORTH

City of Aurora Building Division
Reviewed for Code Compliance
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COLORADO LICENSED REGISTERED 0051899 2/17/23 PROFESSIONAL ENGINEER

THIRD FLOOR ICU BUILD-OUT

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THIRD FLOOR - MEDICAL GAS PLAN

P303.1

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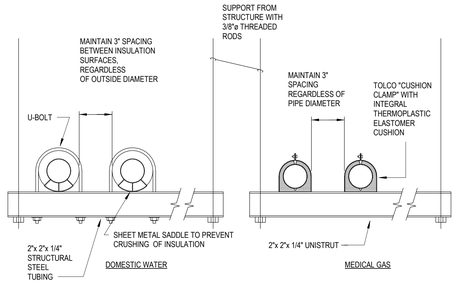
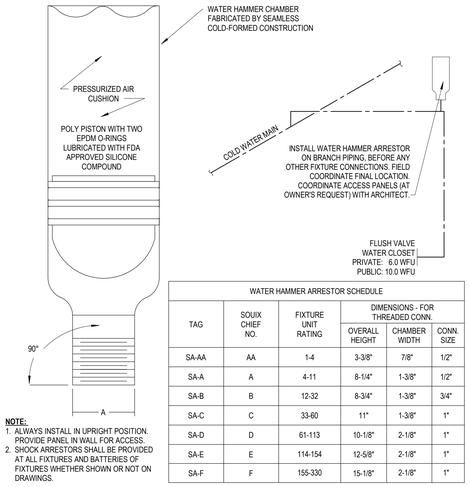


NOTES:
1. REFER TO SPECIFICATIONS FOR METHODS & MATERIALS.
2. REFER TO SPECIFICATION SECTIION 018703 FOR SEISMIC REQUIREMENTS.

8 TRAPEZE PIPE HANGER DETAILS
NOT TO SCALE

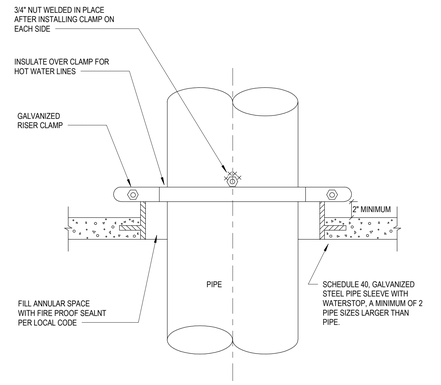


NOTE:
1. ALWAYS INSTALL IN UPRIGHT POSITION. PROVIDE PANEL IN WALL FOR ACCESS.
2. SHOCK ARRESTORS SHALL BE PROVIDED AT ALL FIXTURES AND BATTERIES OF FIXTURES WHETHER SHOWN OR NOT ON DRAWINGS.

WATER HAMMER ARRESTOR SCHEDULE

TAG	SOUIX CHIEF NO.	FIXTURE UNIT RATING	DIMENSIONS - FOR THREADED CONN.		
			OVERALL HEIGHT	CHAMBER WIDTH	CONN. SIZE
SA-AA	AA	1-4	3-3/8"	7/8"	1/2"
SA-A	A	4-11	8-1/4"	1-3/8"	1/2"
SA-B	B	12-32	8-3/4"	1-3/8"	3/4"
SA-C	C	33-60	11"	1-3/8"	1"
SA-D	D	61-113	10-1/8"	2-1/8"	1"
SA-E	E	114-154	12-5/8"	2-1/8"	1"
SA-F	F	155-330	15-1/8"	2-1/8"	1"

5 WATER HAMMER ARRESTOR (PISTON TYPE) DETAIL
NOT TO SCALE



6 PIPE RISER CLAMP SUPPORT DETAIL
NOT TO SCALE

City of Aurora Building Division
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Approved as Noted: *Y. Munoz*
Date: *Jun 29, 2023*
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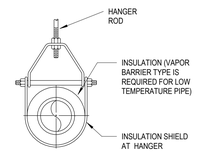
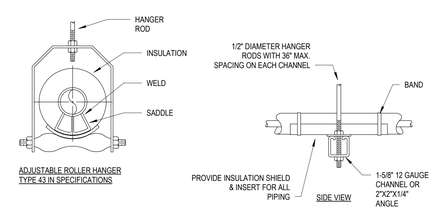


ADJUSTABLE CLEVIS HANGER TYPE 1 IN SPECIFICATIONS

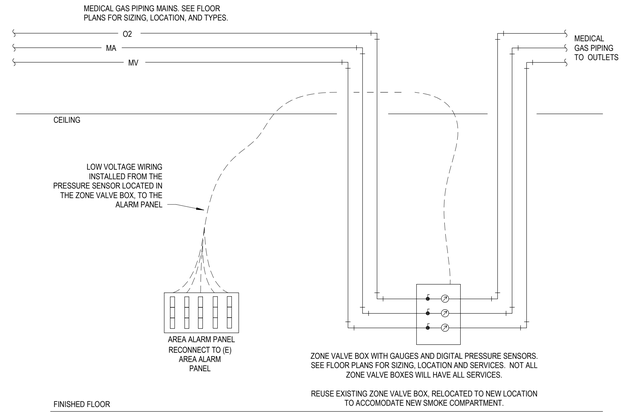


ADJUSTABLE ROLLER HANGER TYPE 43 IN SPECIFICATIONS

NOTES:
1. REFER TO SPECIFICATIONS FOR METHODS & MATERIALS.
2. REFER TO SPECIFICATION SECTION 018703 FOR SEISMIC REQUIREMENTS.

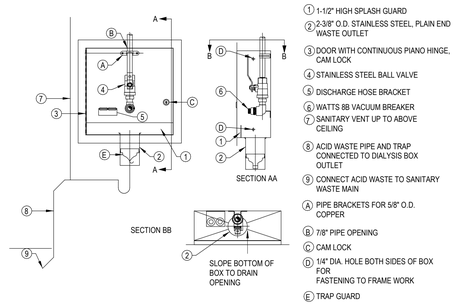
TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

7 PIPE SUPPORT DETAILS
NOT TO SCALE



4 MED GAS VALVE/ AREA ALARM SCHEMATIC
NOT TO SCALE

NOTE:
DIALYSIS BOX MODIFIED WITH DIMENSIONS AND LAYOUT AS SHOWN. OTHER MODIFICATIONS INCLUDE CONTINUOUS PIANO HINGE DOOR WITH CAM LOCK AND TWO KEYS. VALVE BOX IS FABRICATED OF 16 GAUGE TYPE 316 STAINLESS STEEL WITH EXPOSED SURFACES SATIN FINISH. 2-3/8" OD TAILPIECE. 1-1/2" HIGH SPLASH GUARD, DISCHARGE HOSE BRACKET WITH RUBBER GROMMETS, 1/2" STAINLESS STEEL BALL VALVE, LOCKING DOOR AND FRAME HINGED. LEFT HAND SHOWN (SPECIFY LEFT HAND OR RIGHT HAND HINGED).



1. 1-1/2" HIGH SPLASH GUARD
2. 2-3/8" O.D. STAINLESS STEEL, PLAIN END WASTE OUTLET
3. DOOR WITH CONTINUOUS PIANO HINGE, CAM LOCK
4. STAINLESS STEEL BALL VALVE
5. DISCHARGE HOSE BRACKET
6. WATTS 8B VACUUM BREAKER
7. SANITARY VENT UP TO ABOVE CEILING
8. ACID WASTE PIPE AND TRAP CONNECTED TO DIALYSIS BOX OUTLET
9. CONNECT ACID WASTE TO SANITARY WASTE MAIN
- (A) PIPE BRACKETS FOR 5/8" O.D. COPPER
- (B) 7/8" PIPE OPENING
- (C) CAM LOCK
- (D) 1/4" DIA. HOLE BOTH SIDES OF BOX FOR FASTENING TO FRAME WORK
- (E) TRAP GUARD

1 DIALYSIS BOX DETAIL
NOT TO SCALE

Gresham Smith
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COLORADO LICENSED BENJAMIN M. WEERTS 0051899 PROFESSIONAL ENGINEER 2/17/23

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

PLUMBING DETAILS

P601

PROJECT: 45990.00
DATE: 02/17/23

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

2/16/2023 8:52:12 AM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/MEP_459900_TMCA ICU Build-Out.rvt

Drawn By: CL
Checked By: JY
Approved By: JY

GENERAL NOTES - ELECTRICAL

GENERAL CONDITIONS
1. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSTALLATION THAT IS COMPLETE AND ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, LABOR, SUPERVISION AND SERVICE NECESSARY SO AS TO PROVIDE A COMPLETE, FUNCTIONING ELECTRICAL SYSTEM IN SAFE WORKING ORDER.
2. SYMBOLS FOR VARIOUS ELEMENTS AND SYSTEMS ARE SHOWN ON THE DRAWINGS. SHOULD THERE BE ANY DOUBT REGARDING THE MEANING OR INTENT OF THE SYMBOLS USED, AN INTERPRETATION SHALL BE OBTAINED FROM THE ARCHITECT IN WRITING. THE DECISION OF THE ARCHITECT SHALL BE FINAL.
3. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO EXAMINE THE CONTRACT DOCUMENTS CAREFULLY BEFORE SUBMITTING HIS BID, WITH PARTICULAR ATTENTION TO ERRORS, OMISSIONS, CONFLICTS WITH PROVISIONS OF LAWS AND CODES HAVING JURISDICTION, CONFLICTS BETWEEN DRAWINGS OR DRAWINGS AND SPECIFICATIONS, AND AMBIGUOUS DEFINITION OF THE EXTENT OF COVERAGE BETWEEN CONTRACTS. ANY SUCH DISCREPANCY SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT FOR CORRECTION. SHOULD ANY OF THESE ERRORS, OMISSIONS, CONFLICTS, OR AMBIGUITIES EXIST, THE CONTRACTOR SHALL HAVE THEM EXPLAINED AND ADJUSTED IN WRITING BEFORE SIGNING THE CONTRACT OR PROCEEDING WITH THE WORK; OTHERWISE, HE SHALL, AT HIS OWN EXPENSE, SUPPLY THE PROPER MATERIALS AND LABOR TO MAKE GOOD ANY DAMAGE OR DEFECTS IN HIS WORK OR THE RESULTS OBTAINED THEREFROM, CAUSED BY SUCH DISCREPANCY.
4. WHEREVER CONFLICTS OCCUR BETWEEN DIFFERENT PARTS OF THE CONTRACT DOCUMENTS, THE GREATER QUANTITY, THE BETTER QUALITY, OR LARGER SIZE SHALL PREVAIL UNLESS THE ARCHITECT INFORMS THE CONTRACTOR OTHERWISE IN WRITING.
5. THE SCALE OF EACH DRAWING IS RELATIVELY ACCURATE; ANY DIMENSIONS SHOWN ARE APPROXIMATE TO CENTERLINE FROM ASSUMED BUILDING PERIMETER. THE CONTRACTOR SHALL OBTAIN THE NECESSARY DIMENSIONS FOR ANY EXACT TAKEOFFS FROM THE ARCHITECT. NO ADDITIONAL COST TO THE OWNER WILL BE CONSIDERED FOR FAILURE TO OBTAIN EXACT DIMENSIONS WHERE NOT CLEAR OR IN ERROR ON THE DRAWINGS. ANY DEVICE OR FIXTURE ROUGHED IN IMPROPERLY AND NOT POSITIONED ON IMPLIED CENTER-LINES OR AS REQUIRED BY GOOD PRACTICE MUST BE REPOSITIONED AT NO COST TO THE OWNER.
6. ALL WORK AND MATERIALS SHALL BE GUARANTEED FREE FROM DEFECTS FOR A MINIMUM PERIOD OF ONE YEAR UNLESS NOTED OTHERWISE. THE WARRANTY PERIOD SHALL BEGIN AT THE DATE OF BENEFICIAL OCCUPANCY OF THE FACILITY.
7. THE CONTRACTOR IS RESPONSIBLE FOR FILING AND PAYING ALL FEES AND OBTAINING NECESSARY PERMITS AND CERTIFICATES OF INSPECTION. THE CONTRACTOR SHALL DELIVER ALL CERTIFICATES OF INSPECTION TO OWNER/CONSTRUCTION MANAGER INCLUDING COPIES WITH MAINTENANCE MANUALS.
8. ONLY EXPERIENCED CRAFTSMEN KNOWLEDGEABLE IN THEIR RESPECTIVE TRADE SHALL PERFORM THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS.
9. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA STANDARD 70 (NATIONAL ELECTRICAL CODE). CONTRACTOR SHALL ALSO CONFORM TO ALL APPLICABLE LOCAL CODES AND AMENDMENTS.
10. ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO SWITCHGEAR, CONDUIT, WIRE, BOXES AND FITTINGS SHALL BE NEW AND SHALL MEET NEMA AND ANSI STANDARDS AND SHALL BEAR THE UL LABEL.
11. PROVIDE SHOP DRAWINGS FOR ENGINEER'S REVIEW FOR ALL ELECTRICAL EQUIPMENT, DEVICES, AND MATERIALS PROPOSED TO BE PROVIDED UNDER THIS CONTRACT. ANY DEVIATIONS FROM ITEMS SPECIFIED SHALL BE CLEARLY IDENTIFIED AND SEPARATELY SUBMITTED WITH A FORMAL SUBSTITUTION REQUEST. REFER TO SPECIFICATIONS (PROJECT MANUAL) FOR REQUIREMENTS.

ELECTRICAL EQUIPMENT
1. PROVIDE AN IDENTIFICATION NAMEPLATE FOR EACH ELECTRICAL EQUIPMENT, APPURTENANCE DEPICTING THE DESIGNATION INDICATED ON THE DRAWINGS. REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS.
2. WEATHERPROOF ENCLOSURES SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT, DEVICES AND APPURTENANCES (ALL SYSTEMS) INSTALLED OUTDOORS.
3. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL POWER OUTAGES WITH OWNER'S REPRESENTATIVE.
4. CONTRACTOR SHALL NOT USE PERMANENT INK WHEN MAKING FIELD MARKINGS OR TEMPORARY CIRCUIT LABELS ON PANELS. CONTRACTOR SHALL USE REMOVABLE TAPE/TAGS FOR ALL TEMPORARY MARKINGS AND SHALL REMOVE THESE TEMPORARY MARKINGS AT THE CONCLUSION OF THIS PROJECT.

CONDUIT & RACEWAY
1. ALL WORK SHALL BE COORDINATED SO THAT INTERFERENCES ARE AVOIDED. PROVIDE ALL NECESSARY OFFSETS IN CONDUITS, RACEWAYS, ETC., REQUIRED TO PROPERLY INSTALL THE WORK. EXPOSED WORK MUST BE KEPT AS CLOSE AS POSSIBLE TO WALLS, CEILINGS, COLUMNS, ETC., SO AS TO TAKE UP MINIMUM AMOUNT OF SPACE; ALL OFFSETS, FITTINGS, ETC., REQUIRED SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. WORK SHALL BE COORDINATED WITH OTHER TRADES.
2. CONDUIT RUNS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER N.E.C. AND FOR COORDINATION WITH OTHER DISCIPLINES.
3. CONTRACTOR SHALL PROVIDE AND INSTALL ADEQUATE SUPPORTS NECESSARY FOR THE RACEWAY SYSTEM. THIS INCLUDES BUT IS NOT LIMITED TO BLOCKING FOR SURFACE AND FLUSH MOUNTED PANELS. CONTRACTOR SHALL REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SIZES AND QUANTITIES OF ALL SUPPORTING MEANS.
4. PENETRATIONS OF WALLS, FLOORS, AND ROOFS FOR THE PASSAGE OF ELECTRICAL RACEWAYS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF WORK. ALL SUCH PENETRATIONS SHALL BE PROPERLY SEALED OFF AFTER INSTALLATION OF RACEWAY SO AS TO MAINTAIN THE STRUCTURAL, WATER PROOF, AND FIRE PROOF INTEGRITY OF THE WALL, FLOOR, OR ROOF SYSTEM PENETRATED.
5. THE CONTRACTOR SHALL SEAL ALL CONDUITS THAT PENETRATE THE FLOOR SLAB TO MAKE THEM WATER TIGHT. THE CONDUITS SHALL BE DRIED PRIOR TO INSTALLATION OF WIRE/CABLE AND SHALL BE SEALED AT TERMINATIONS.
6. ALL PENETRATIONS THROUGH FIRE RATED WALLS OR PARTITIONS SHALL BE MADE IN ACCORDANCE WITH U.L. 483 "FIRE RESISTANCE DIRECTORY". PENETRATIONS SHALL BE SLEEVED AND SEALED WITH A UL APPROVED FIRE RATED SEALANT. REFER TO ARCHITECTURAL PLANS FOR FIRE RATED WALLS.
7. ALL EMPTY CONDUIT SYSTEMS SHALL CONTAIN A PULL WIRE FOR FUTURE PULLING OF CONDUCTORS.

BRANCH CIRCUITS AND FEEDERS
1. UNLESS NOTED OTHERWISE, ALL CIRCUITS 100' OR LESS SHALL BE MINIMUM #12 AWG WIRE SIZE. CIRCUITS OVER 100' BUT LESS THAN 200' SHALL BE MINIMUM #10 AWG WIRE SIZE. CIRCUITS OVER 200' SHALL BE MINIMUM #8 AWG WIRE SIZE.
2. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT. CONDUCTOR SIZES #12 AWG AND SMALLER SHALL BE SOLID. CONDUCTOR SIZES #10 AWG AND LARGER MAY BE STRANDED.
3. A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED WITH THE CIRCUIT CONDUCTORS FOR GROUNDING WHETHER OR NOT INDICATED ON THE DRAWINGS. METAL RACEWAY, OR A CABLE ARMOR OR SHEATH SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR.
4. CONTRACTOR SHALL GROUND ALL EQUIPMENT AND ELECTRICAL SYSTEM PER N.E.C.

WIRING DEVICES
1. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION AND MOUNTING HEIGHT OF ALL WALL AND FLOOR MOUNTED ELEMENTS (OUTLETS, LIGHT SWITCHES, CONTROLLERS, POKE-THRU, ETC). ALL WALL/FLOOR MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL DIMENSIONED DRAWINGS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL WALL/FLOOR TYPES IN ALL AREAS. DO NOT SCALE OR DIMENSION LOCATIONS FROM THESE DRAWINGS.
2. CONTRACTOR SHALL COORDINATE THE LOCATION AND INSTALLATION DETAIL OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS (WALL ELEVATIONS, MILLWORK DETAILS, ETC.) AND WITH MILLWORK MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN.
3. WALL AND FLOOR MOUNTED POWER RECEPTACLES SHOWN NEAR DATA OUTLETS SHALL BE LOCATED WITHIN SIX (6) INCHES OF THE DATA OUTLET. LOCATE AT SAME MOUNTING HEIGHT UNLESS NOTED OTHERWISE.
4. PROVIDE METAL BACKBOX MOUNTING BRACKET (CADDY #RBS SERIES OR SIMILAR) TO MOUNT DEVICE BETWEEN METAL/WOOD STUDS AT SAME ELEVATION AND EQUAL SPACING.
5. CONTRACTOR SHALL VERIFY THE EXACT POWER CONNECTION TYPE AND NEMA CONFIGURATION OF RECEPTACLES FOR EQUIPMENT FURNISHED BY THE OWNER, OTHER TRADES, OR UNDER A SEPARATE SECTION OF THIS CONTRACT PRIOR TO ELECTRICAL ROUGH-IN.
6. MOUNT ALL RECEPTACLES THROUGHOUT THE PROJECT WITH THE GROUND POLE AT THE TOP OF THE CONFIGURATION WHEN MOUNTED VERTICALLY, AND ON THE RIGHT WHEN MOUNTED HORIZONTALLY.
7. ALL RECEPTACLES WITHIN SIX FEET OF ANY PLUMBING FIXTURE AND/OR SINK SHALL BE EQUIPPED WITH GFCI FOR PERSONNEL PROTECTION.
8. ALL RECEPTACLES LOCATED OUTSIDE THE BUILDING ENVELOPE SHALL BE HOUSED IN ENCLOSURES THAT ARE RATED 'WEATHER-PROOF-WHILE-IN-USE' AND SHALL BE EQUIPPED WITH GFCI FOR PERSONNEL PROTECTION.
9. ALL GFCI RECEPTACLES SHALL BE CONNECTED SO THAT ALL DEVICES ON THE SAME CIRCUIT AS THE GFCI RECEPTACLE DO NOT DE-ENERGIZE UPON TRIPPING. ALL GFCI RECEPTACLES SHALL INCLUDE A LOCK-OUT FUNCTION TO PROTECT AGAINST THE USE OF MISWIRED DEVICES OR DEVICES THAT HAVE BEEN DAMAGED DUE TO DISABLING SURGES.
10. FINISH COLORS OF DEVICES AND CORRESPONDING COVER PLATES SHALL BE SELECTED AND APPROVED BY THE ARCHITECT. SPECIALTY RECEPTACLES AND COVERPLATES (I.E. ISOLATED GROUND, EMERGENCY, CRITICAL BRANCH, SURGE SUPPRESSION, ETC.) SHALL BE THE COLOR NOTED IN ELECTRICAL CONSTRUCTION DOCUMENTS.

LIGHTING SYSTEM
1. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION OF ALL CEILING ELEMENTS (LIGHTS, SPRINKLERS, DIFFUSERS, ETC). ALL CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL DIMENSIONED DRAWINGS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS. DO NOT SCALE OR DIMENSION LOCATIONS FROM THESE DRAWINGS.
2. CONTRACTOR SHALL PROVIDE AND INSTALL ALL SUPPORTS FOR LIGHT FIXTURES. SUPPORTS SHALL BE INDEPENDENT OF THE CEILING GRID SUPPORT SYSTEM.
3. LIGHT SWITCHES LOCATED IN A ROOM SHALL CONTROL ALL THE LIGHT FIXTURES IN THAT ROOM UNLESS NOTED OTHERWISE. CONTRACTOR SHALL GANG TOGETHER ALL SWITCHES/DIMMERS UNDER A SINGLE COVER PLATE IN ALL AREAS THAT REQUIRE MORE THAN ONE SWITCH TO CONTROL ELECTRICAL DEVICES.
4. WALLBOX DIMMERS SHALL BE INSTALLED IN A MANNER SUCH THAT THEIR LISTED WATTAGE IS NOT DERATED DUE TO HEAT. SPACE ACCORDING TO DIMMER MANUFACTURER'S RECOMMENDATIONS AND PROVIDE 'WIDE-FIN' DESIGN DIMMERS WHERE REQUIRED.
5. ALL LIGHT FIXTURES SHALL BE INSTALLED WITH APPROPRIATE LAMPS AS INDICATED. FIXTURES SHALL ALSO BE INSTALLED WITH BALLASTS WHERE NECESSARY.

OCCUPANCY SENSOR NOTES:
1. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
2. ULTRASONIC CEILING MOUNT SENSORS SHOULD BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
3. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR NON-ADAPTIVE PRODUCTS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
4. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS:
   A. ONE POWER PACK IS REQUIRED FOR EACH CONTROLLED CIRCUIT;
   B. SEVERAL SENSORS AND ADD-A-RELAYS CAN BE WIRED IN PARALLEL TO A SINGLE POWER PACK, NOT TO EXCEED 150mA TOTAL POWER CONSUMPTION.
   C. IF MULTIPLE CIRCUITS ARE TO BE CONTROLLED BY A SINGLE SENSOR, AUXILIARY RELAYS MAY BE USED IN CONJUNCTION WITH A POWER PACK.
5. SENSORS MOUNTED OVER DOORWAYS SHOULD BE PLACED ONE (1) FOOT INSIDE THRESHOLD.

MECHANICAL & PLUMBING COORDINATION
1. CONTRACTOR SHALL REFERENCE THE MECHANICAL AND PLUMBING DRAWINGS FOR ALL EQUIPMENT NEEDING ELECTRICAL CONNECTIONS. MAKE ALL CONNECTIONS AND PROVIDE APPROPRIATE WIRE, CONDUIT, AND OVERCURRENT PROTECTION FOR ALL EQUIPMENT.
2. DISCONNECTING MEANS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE MOUNTED INDEPENDENTLY OF THE EQUIPMENT.
3. ALL CIRCUIT BREAKERS SERVING MECHANICAL EQUIPMENT SHALL BEAR AN 'HACR' RATING.
4. CONTRACTOR SHALL COORDINATE BETWEEN TRADES AND PROVIDE CONTROL POWER FOR ALL VAV BOXES/DAMPERS/ETC, AS REQUIRED TO ENSURE A COMPLETE, FULLY FUNCTIONAL HVAC SYSTEM. SHOULD AN EXACT CIRCUIT NUMBER NOT BE INDICATED ON ELECTRICAL DRAWINGS, CONTRACTOR SHALL UTILIZE AVAILABLE 20A/1P SPACE FROM THE NEAREST 208V/120V PANEL OR FROM BUILDING CONTROL POWER DISTRIBUTION SYSTEM.
5. CONTRACTOR SHALL COORDINATE MOTOR DISCONNECT AND CONTROL WITH MECHANICAL DRAWINGS AND BETWEEN TRADES.
6. COORDINATE ALL REQUIRED ENERGY MANAGEMENT SYSTEM POINTS AND CONTACT CONNECTIONS TO ENSURE THE COMPLETE AND PROPER OPERATION OF ALL SYSTEMS.
7. ALL DISCONNECTS DOWN STREAM OF VFDs SHALL BE PROVIDED WITH AUXILIARY CONTACTS TO SHUT DOWN UPSTREAM VFD WHEN SWITCH IS OPENED.

EMERGENCY POWER SYSTEM
1. ALL EMERGENCY SYSTEMS SHALL BE RUN IN A SEPARATE RACEWAY/CONDUIT SYSTEM AND SHALL BE CLEARLY LABELED AS SUCH.

DOOR HARDWARE COORDINATION
1. CONTRACTOR SHALL PROVIDE 120V, 20A CIRCUIT CONNECTION TO ALL DOOR HEADERS WITH ELECTRONIC DEVICES. EACH DOOR CONNECTION SHOULD BE PROVIDED WITH LOCAL DISCONNECTING MEANS.
2. COORDINATE ALL DOOR CONNECTIONS WITH FIRE ALARM SYSTEM. FIRE ALARM SYSTEM SHALL PROVIDE ALL RELAYS FOR CONNECTION TO ELECTRONICALLY OPERATED DOORS. FIRE ALARM SYSTEM SHALL PROVIDE ALL RELAYS WITH AN EXTERNAL TEST SWITCH FOR FACILITY TESTING.

DEMOLITION NOTES

1. PROVIDE UPDATED, TYPE-WRITTEN PANEL DIRECTORY OF ALL CORRECT CIRCUITS WITH LOAD DEFINITIONS FOR EACH PANEL BOARD. DIRECTORY SHALL BE LOCATED INSIDE PANEL DOOR.
2. INFORMATION PROVIDED ON THESE DRAWINGS HAS BEEN TAKEN FROM DESIGN DRAWINGS AND FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PRICING AND COMMENCEMENT OF WORK.
3. WHERE EXISTING WALLS ARE DEMOLISHED, REMOVE ALL EXISTING ELECTRICAL DEVICES AND THEIR ASSOCIATED CONDUITS AND WIRING BACK TO THE POINT OF ORIGINATION. ENERGIZE ALL EXISTING DEVICES THAT WERE INTERRUPTED DURING DEMOLITION. WHERE ENTIRE CIRCUITS ARE REMOVED, TURN THE CIRCUIT BREAKER OFF AND LABEL AS "SPARE".
4. PROVIDE FOR ANY AND ALL DEMOLITION WORK NECESSARY TO ACCOMMODATE ALL NEW CONSTRUCTION, INCLUDING ARCHITECTURAL, MECHANICAL, PLUMBING OR ELECTRICAL WORK.
5. IF DEMOLITION IS REQUIRED TO INSTALL AN ITEM, THE CONTRACTOR SHALL RESTORE THE AREA TO PREVIOUS CONDITION, OR REPLACE DAMAGED ITEMS WITH NEW ITEMS TO MATCH EXISTING.
6. DESIGNATION 'EX' REPRESENTS EXISTING DEVICE OR LIGHT FIXTURE TO REMAIN AS CIRCUITED AND SWITCHED UNLESS NOTED OTHERWISE. EXISTING LIGHT FIXTURES SHALL BE CLEANED AND REPAIRED AS REQUIRED.
7. CONTRACTOR SHALL REMOVE ALL CONDUIT AND WIRING ASSOCIATED WITH DEVICES AND EQUIPMENT TO BE REMOVED AND/OR RELOCATED UNLESS NOTED OTHERWISE. PROVIDE AND INSTALL ALL NECESSARY DEVICES, EQUIPMENT AND ACCESSORIES REQUIRED TO MAINTAIN SERVICE TO ALL "EXISTING TO REMAIN" DEVICES AND EQUIPMENT THAT MAY BE INTERRUPTED DURING DEMOLITION.
8. WHERE EXISTING MECHANICAL/PLUMBING EQUIPMENT IS DEMOLISHED, REMOVE ALL RELATED ELECTRICAL FEEDS TO THE EQUIPMENT AND THEIR ASSOCIATED CONDUITS BACK TO THE POINT OF ORIGINATION.
9. SPACE ALLOCATIONS FOR MATERIALS, EQUIPMENT AND DEVICES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT OR DEVICES OF A PARTICULAR MANUFACTURER, WHETHER INDICATED OR NOT. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND DEVICES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE.
10. REFER TO ARCHITECTURAL PLANS FOR AREAS WHERE CEILING IS DEMOLISHED. REMOVE ALL LIGHTING FIXTURES AND ASSOCIATED CONDUIT AND WIRING FROM THESE LOCATIONS.
11. ALL RECEPTACLES WITHIN THE PROJECT SCOPE SHALL BE HOSPITAL GRADE TYPE. IF A DEVICE IS INDICATED AS EXISTING TO REMAIN AND IS NOT A HOSPITAL GRADE RECEPTACLE, REPLACE THE EXISTING DEVICE WITH A HOSPITAL GRADE RECEPTACLE AND RECONNECT TO EXISTING CIRCUIT.
12. ALL LIGHTING FIXTURES DEMOLISHED UNDER THESE DRAWINGS SHALL BE RETURNED TO THE OWNER.
13. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL SERVICE OUTAGES REQUIRED TO PROPERLY EXECUTE THIS PROJECT WITH OWNERS AUTHORIZED REPRESENTATIVE AND UTILITY COMPANY. PERFORM ALL WORK AS DIRECTED. INCLUDE SUITABLE ALLOWANCE IN BASE BID FOR ALL REQUIRED PREMIUM TIME, TEMPORARY EXTRA EQUIPMENT AND/OR MATERIALS FOR A COMPLETE AND OPERABLE INSTALLATION.

LIGHTING CONTROL SYSTEM COMMISSIONING

LIGHTING CONTROL SYSTEM SHALL BE COMMISSIONED IN ACCORDANCE WITH 2021 INTERNATIONAL ENERGY CODE SECTION C408. A FUNCTIONAL TESTING REPORT PROVIDED BY A THIRD PARTY COMMISSIONING AGENT SHALL BE PROVIDED TO THE OWNER AND AUTHORITY HAVING JURISDICTION. IT IS THE RESPONSIBILITY OF THE COMMISSIONING AGENT TO PROVIDE COMMISSIONING SCOPE OF WORK AND DOCUMENTATION FOR THE LIGHTING CONTROL SYSTEM WHICH INCLUDES THE FOLLOWING:
1. FUNCTION TEST TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. WHERE OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE SCHEDULE CONTROLS, PHOTOSENESORS OR DAYLIGHTING CONTROLS ARE INSTALLED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED;
   A. CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR OCCUPANCY YIELD ACCEPTABLE PERFORMANCE.
   B. CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
   C. CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN SPACE AS SPECIFIED.
3. FUNCTIONAL TESTING REPORT.

SEE 2021 IECC FOR COMPLETE LIST OF REQUIREMENTS.

HCA INNOVATION MEMORANDUMS

A. CONTRACTOR SHALL PURCHASE DIVISION 23 DEVICES FROM HCA PREFERRED VENDOR LIST PER INNOVATION MEMO #2 AND #2A.
1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ON APPROVED MANUFACTURERS.

B. CONTRACTOR SHALL PURCHASE ALL INTERIOR AND EXTERIOR LIGHTING FIXTURES PER REQUIREMENTS IN INNOVATION MEMO #5.
1. LINDA LARD
   GRAYBAR NASHVILLE
   HCA@GRAYBAR.COM
   (615) 743-3208

C. CONTRACTOR SHALL PURCHASE ALL WIRING DEVICES, SAFETY SWITCHES, CONDUCTORS, RACEWAY, GROUNDING SYSTEMS, HANGERS, JUNCTION BOXES, ISOLATION PANELS, AND CABINETS, PER THE REQUIREMENTS IN INNOVATION MEMO #16.
1. LANCE SMITH
   CED NASHVILLE
   HCA@CED-NASHVILLE.COM
   (615) 329-2601
   (615) 207-7223
2. LINDA LARD
   GRAYBAR NASHVILLE
   HCA@GRAYBAR.COM
   (615) 743-3232

ELECTRICAL ABBREVIATIONS

AAP	AREA ALARM PANEL	MCC	MOTOR CONTROL CENTER
AFC	ABOVE FINISHED COUNTER	MDP	MAIN DISTRIBUTION PANEL
ATS	AUTOMATIC TRANSFER SWITCH	MH	MANHOLE
BFC	BELOW FINISHED CEILING	MLO	MAIN LUGS ONLY
BOF	BOTTOM OF FIXTURE	MTD	MOUNTED
C	CONDUIT	N	NEW DEVICE
CB, C/B OR CKT BRK	CIRCUIT BREAKER	NC, (N.C.)	NORMALLY CLOSED
		NEC	NATIONAL ELECTRIC CODE
CKT	CIRCUIT	NF	NONFUSED
CCTV	CLOSED CIRCUIT T.V.	NIC	NOT IN CONTRACT
CLG	CEILING	NL	NIGHT LIGHT
CUH	CABINET UNIT HEATER	NO, (N.O.)	NORMALLY OPEN
EC	EMPTY CONDUIT	PB	PULL BOX
ELEC	ELECTRIC	PNL	PANEL
E	EMERGENCY	PWR	POWER
EMS	ENERGY MANAGEMENT SYSTEM	R	REMOVE DEVICES
EP	EXPLOSION PROOF	RL	RELOCATED DEVICE
EWC	ELECTRIC WATER COOLER	RCPT(S), OR RECEPT	RECPETACLE(S)
EX	EXISTING		
EX-R	EXISTING TO BE RELOCATED	RF	RETURN AIR FAN
F	FUSE	SEF	SMOKE EXHAUST FAN
FA	FIRE ALARM	SF	SUPPLY AIR FAN
FACP, FAP	FIRE ALARM CONTROL PANEL	SO (S.O.)	SPACE ONLY
FCU	FAN COIL UNIT	SP	SPARE
FIXT	FIXTURE	SPD	SURGE-PROTECTIVE DEVICE
FLR	FLOOR	ST (S.T.)	SHUNT TTRIP
FLUOR	FLUORESCENT	SW	SWITCH
FTPS, FTS	FAN TERMINAL UNIT	TEL	TELEPHONE
FTU	FAN TERMINAL UNIT	TF	TRANSFER FAN
FUT	FUTURE	TP	TAMPER PROOF
G, GND	GROUND	TV	TELEVISION
GEF	GENERAL EXHAUST FAN	UF	UNDERFLOOR
GEN	GENERATOR	UG	UNDERGROUND
GFI, GCFI	GROUND FAULT CIRCUIT INTERRUPTER	UH	UNIT HEATER
H	DEVICE MOUNTED HORIZONTALLY	UNO (UON)	UNLESS OTHERWISE NOTED
HP	HORSEPOWER	V	VOLTAGE
HV	HIGH VOLTAGE	VFD	VARIABLE FREQUENCY DRIVE
HWAT	HEAT TRACE	VP	VAPOR PROOF
IC	INTERRUPTING CAPACITY	VV	VARIABLE VOLUME UNIT
ICAND	INCANDESCENT	W	WIRE
IG	ISOLATED GROUND	W/	WITH
JB	JUNCTION BOX	WG	WIRE GUARD
KEF	KITCHEN EXHAUST FAN	WP	WEATHERPROOF
LTG	LIGHTING	WT	WATERTIGHT
LTS	LIGHTS	XFMR	TRANSFORMER
LV	LOW VOLTAGE	+xx	MOUNTING HEIGHT IN INCHES. AFF UNO.
MATV	MASTER ANTENNA		
MCB	MAIN CIRCUIT BREAKER		

KEY TO GENERAL NOTATIONS AND MOUNTING HEIGHTS

48" AFF INDICATES TO TOP OF DEVICE;
18" AFF INDICATES TO CENTER OF DEVICE;
60" AFF INDICATES TO BOTTOM OF DEVICE;
80" AFF INDICATES TO BOTTOM OF DEVICE;
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE

(#) LEGEND NOTE: DENOTES "SEE LEGENDS NOTE #"

REF: 02/E-202 - DENOTES: REFERENCE 02 ON DRAWING (SHEET) E-202

20.4 - FEEDER TAG. FEEDER SIZES ARE DETERMINED BY THE FEEDER SCHEDULE.

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

LIGHTING SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	2'x4' RECESSED LIGHT FIXTURE.	SEE FIXTURE SCHEDULE
	2'x4' RECESSED LIGHT FIXTURE WITH INBOARD AND OUTBOARD ON SEPARATE CONTROL. REFER TO CIRCUITING FOR ADDITIONAL INFORMATION.	SEE FIXTURE SCHEDULE
	2'x2' RECESSED LIGHT FIXTURE.	SEE FIXTURE SCHEDULE
	2'x2' RECESSED LIGHT FIXTURE WITH INBOARD AND OUTBOARD ON SEPARATE CONTROL. REFER TO CIRCUITING FOR ADDITIONAL INFORMATION.	SEE FIXTURE SCHEDULE
	WALL MOUNTED LINEAR FIXTURE.	SEE FIXTURE SCHEDULE
	RECESSED/SURFACE MOUNTED/CHAIN HUNG LINEAR FIXTURE.	SEE FIXTURE SCHEDULE
	RECESSED/SURFACE DOWNLIGHT FIXTURE.	SEE FIXTURE SCHEDULE
	WALL MOUNTED FIXTURE.	SEE FIXTURE SCHEDULE
	RECESSED DOWNLIGHT FIXTURE WITH WALL WASH.	SEE FIXTURE SCHEDULE
	HANGING RECTANGULAR PENDANT FIXTURE.	SEE FIXTURE SCHEDULE
	HANGING CIRCULAR PENDANT/SURFACE MOUNTED DRUM FIXTURE.	SEE FIXTURE SCHEDULE
	WALL MOUNTED 90-MINUTE BATTERY-POWERED EGRESS LIGHTING ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
	CEILING MOUNTED EXIT SIGN. SHADING INDICATES DOUBLE OR SINGLE FACE. ARROW INDICATES CHEVRON DIRECTIONS.	SEE FIXTURE SCHEDULE
	WALL MOUNTED EXIT SIGN. SHADING INDICATES DOUBLE OR SINGLE FACE. ARROW INDICATES CHEVRON DIRECTIONS.	SEE FIXTURE SCHEDULE
	WALL PACK LIGHT FIXTURE.	SEE FIXTURE SCHEDULE
	BOLLARD/IN-GRADE LIGHT FIXTURE.	SEE FIXTURE SCHEDULE
	EXTERIOR LIGHT POLE FIXTURE.	SEE FIXTURE SCHEDULE
	SPOT/FLOOD LIGHT FIXTURE.	SEE FIXTURE SCHEDULE

LIGHTING HATCHING LEGEND

LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.
CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.

LIGHTING NOTES:
1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS AND MOUNTING REQUIREMENTS FOR ALL LIGHT FIXTURES.

LIGHT SWITCH SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
$	WALL SWITCH, 20A, 120/277V	48" AFF
$3	3-WAY WALL SWITCH, 20A, 120/277V	48" AFF
$4	4-WAY WALL SWITCH, 20A, 120/277V	48" AFF
$D	WALL DIMMER SWITCH	48" AFF
$K	KEY OPERATED WALL SWITCH	48" AFF
$3D	3-WAY DIMMER WALL SWITCH, 20A, 120/277V	48" AFF
$3K	3-WAY KEY OPERATED WALL SWITCH, 20A, 120/277V	48" AFF
$MC	MOMENTARY WALL SWITCH, 20A, 120/277V	48" AFF
$LV	LOW VOLTAGE WALL SWITCH	48" AFF

LIGHTING NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.

OCCUPANCY SENSOR/CONTROLS SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
OS DT	OCCUPANCY SENSOR, DUAL TECHNOLOGY	CEILING MOUNTED
VS DT	VACANCY SENSOR, DUAL TECHNOLOGY	CEILING MOUNTED
PC	INTERIOR PHOTOCELL (REFER TO MANUFACTURER MOUNTING REQUIREMENTS)	CEILING MOUNTED
$O	WALL SWITCH OCCUPANCY SENSOR CONTROL	48" AFF
$OT	WALL TIMER SWITCH OCCUPANCY SENSOR CONTROL	48" AFF
$V	WALL SWITCH VACANCY SENSOR CONTROL	48" AFF
$DV	WALL SWITCH VACANCY SENSOR W/ DIMMER CONTROL	48" AFF

OCCUPANCY SENSOR/CONTROLS NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.

RECEPTACLE SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO
	SINGLE RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP	8" AFC OR 42" AFF
	QUADRAPLEX RECEPTACLE (TWO DUPLEX RECEPTACLES UNDER ONE COVERPLATE)	18" AFF
	QUADRAPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP (TWO DUPLEX RECEPTACLES UNDER ONE COVERPLATE)	8" AFC OR 42" AFF
	SPECIAL PURPOSE RECEPTACLE (NEMA NO. AS INDICATED)	18" AFF
	FLOOR MOUNTED RECEPTACLE IN FLOOR BOX OR POKE-THRU DEVICE - FLUSH MOUNTED, UNO	--
	CEILING MOUNTED RECEPTACLE - CONFIGURATION UNO	FLUSH W/ CLG SURFACE
	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED	AS REQUIRED
D/T	WALL MOUNTED JUNCTION BOX FOR DATA/TELEPHONE - SIZE & MOUNTING AS REQUIRED	AS REQUIRED

RECEPTACLE TAG LEGEND

RECEPTACLE NOTES:
1. REFER TO FLOOR PLAN DRAWINGS FOR ADDITIONAL MOUNTING HEIGHTS. CONFIRM ALL MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS.

POWER SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO
X/Y/Z X/-/Z CB X/Z	DISCONNECT SWITCH FUSED - X/Y/Z (X=FRAME SIZE, Y=FUSE SIZE, Z=NUMBER OF POLES) NON-FUSED - X/-/Z(X=FRAME SIZE, Z=NUMBER OF POLES) CIRCUIT BREAKER - CB X/Y/Z (X=FRAME SIZE, Z=NUMBER OF POLES)	AS REQUIRED
$M	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD AND PILOT LIGHT	AS REQUIRED
	EMERGENCY POWER OFF BUTTON - WALL MOUNTED	AS REQUIRED
	CIRCUIT HOMERUN TO PANELBOARD (2#12, 1#12G, 3/4"C. 20A/1P CB UNO)	--
X,X,X	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS	--
X/X/X	MULTI-POLE DEVICE CIRCUIT NUMBERS	--
	208Y/120V PANELBOARD	--
	480Y/277V PANELBOARD	--
	208Y/120V DISTRIBUTION PANELBOARD	--
	480Y/277V DISTRIBUTION PANELBOARD	--
	ISOLATION PANEL	--
	SWITCHBOARD	--
T	STEP-DOWN TRANSFORMER	--
	AUTOMATIC TRANSFER SWITCH	--
	BY-PASS / ISOLATION AUTOMATIC TRANSFER SWITCH	--
	GROUND BAR	--
GAP	GENERATOR ANNUNCIATOR PANEL	AS REQUIRED
ATSA	AUTOMATIC TRANSFER SWITCH ANNUNCIATOR PANEL	AS REQUIRED
SPD	TRANSIENT VOLTAGE AND SURGE SUPPRESSOR DEVICE	AS REQUIRED
AAP	AREA ALARM PANEL	AS REQUIRED
FOAP	FUEL OIL ALARM PANEL	AS REQUIRED
MGAP	MEDICAL GAS ALARM PANEL - PANEL PROVIDED UNDER DIV 22	AS REQUIRED
DHTA	DECONTAMINATION HOLDING TANK ALARM - PANEL PROVIDED UNDER OTHER DIVISION	AS REQUIRED

FIRE ALARM SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO
F	FIRE ALARM PULL STATION WALL MOUNTED	48" AFF
	FIRE ALARM AUDIBLE VISUAL SIGNAL WALL MOUNTED	80" AFF
	FIRE ALARM AUDIBLE SIGNAL WALL MOUNTED	80" AFF
	FIRE ALARM VISUAL SIGNAL WALL MOUNTED	80" AFF
CLG	FIRE ALARM AUDIBLE VISUAL SIGNAL CEILING MOUNTED	--
CLG	FIRE ALARM AUDIBLE SIGNAL CEILING MOUNTED	--
CLG	FIRE ALARM VISUAL SIGNAL CEILING MOUNTED	--
FS	FIRE ALARM SPRINKLER FLOW SWITCH	--
TS	FIRE ALARM SPRINKLER TAMPER SWITCH	--
PS	FIRE ALARM SPRINKLER PRESSURE SWITCH	--
	SMOKE DETECTOR WALL MOUNTED	9" BFC
	SMOKE DETECTOR CEILING MOUNTED	--
	HEAT DETECTOR WALL MOUNTED	9" BFC
	HEAT DETECTOR CEILING MOUNTED	--
DH	ELECTRO-MAGNETIC DOOR HOLDER	AS REQUIRED
M	ELECTRO-MAGNETIC SMOKE DOOR HOLDER (INTERFACED WITH FIRE ALARM SYSTEM. DC POWER PROVIDED BY FIRE ALARM WIRING)	AS REQUIRED
FACP	FIRE ALARM CONTROL PANEL	REFER TO ARCH. ELEV.
FAAP	FIRE ALARM ANNUNCIATOR PANEL	REFER TO ARCH. ELEV.
FP	TELEPHONE JACK FOR FIREMAN'S PHONE (BY FIRE ALARM CONTRACTOR)	48" AFF

PROJECT DESIGN CRITERIA

LOCATION:	
CITY/STATE	AURORA, CO
APPLICABLE CODES:	1
BUILDING	2021 IBC*
MECHANICAL	2021 IMC*
PLUMBING	2021 IPC*
ENERGY	2021 IECC*
ELECTRICAL	2020 NEC*
FIRE	2021 IFC*
LATITUDE:	
DEG. N. LAT.	39.69
ELEVATION:	
FT. ABOVE SEA LEVEL	5280

* WITH CITY OF AURORA BUILDING CODE AMENDMENTS.

Gresham Smith

GreshamSmith.com

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COLORADO LICENSED JIMMY E. YOUSSEF 0050071 6/2/23 PROFESSIONAL ENGINEER

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description
1	06/02/2023	AMENDMENT 1

ELECTRICAL LEGENDS, NOTES, AND ABBREVIATIONS

E000

PROJECT: 45990.00
DATE: 02/17/23

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

6/1/2023 9:01:51 AM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/MEP_459900_TMCA ICU Build-Out.rvt

Drawn By: CL
Checked By: JY
Approved By: JY

GENERAL NOTES - ELECTRICAL

GENERAL CONDITIONS

1. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSTALLATION THAT IS COMPLETE AND ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, LABOR, SUPERVISION AND SERVICE NECESSARY SO AS TO PROVIDE A COMPLETE, FUNCTIONING ELECTRICAL SYSTEM IN SAFE WORKING ORDER.
2. SYMBOLS FOR VARIOUS ELEMENTS AND SYSTEMS ARE SHOWN ON THE DRAWINGS. SHOULD THERE BE ANY DOUBT REGARDING THE MEANING OR INTENT OF THE SYMBOLS USED, AN INTERPRETATION SHALL BE OBTAINED FROM THE ARCHITECT IN WRITING. THE DECISION OF THE ARCHITECT SHALL BE FINAL.
3. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO EXAMINE THE CONTRACT DOCUMENTS CAREFULLY BEFORE SUBMITTING HIS BID, WITH PARTICULAR ATTENTION TO ERRORS, OMISSIONS, CONFLICTS WITH PROVISIONS OF LAWS AND CODES HAVING JURISDICTION, CONFLICTS BETWEEN DRAWINGS OR DRAWINGS AND SPECIFICATIONS, AND AMBIGUOUS DEFINITION OF THE EXTENT OF COVERAGE BETWEEN CONTRACTS. ANY SUCH DISCREPANCY SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT FOR CORRECTION. SHOULD ANY OF THESE ERRORS, OMISSIONS, CONFLICTS, OR AMBIGUITIES EXIST, THE CONTRACTOR SHALL HAVE THEM EXPLAINED AND ADJUSTED IN WRITING BEFORE SIGNING THE CONTRACT OR PROCEEDING WITH THE WORK; OTHERWISE, HE SHALL, AT HIS OWN EXPENSE, SUPPLY THE PROPER MATERIALS AND LABOR TO MAKE GOOD ANY DAMAGE OR DEFECTS IN HIS WORK OR THE RESULTS OBTAINED THEREFROM, CAUSED BY SUCH DISCREPANCY.
4. WHEREVER CONFLICTS OCCUR BETWEEN DIFFERENT PARTS OF THE CONTRACT DOCUMENTS, THE GREATER QUANTITY, THE BETTER QUALITY, OR LARGER SIZE SHALL PREVAIL UNLESS THE ARCHITECT INFORMS THE CONTRACTOR OTHERWISE IN WRITING.
5. THE SCALE OF EACH DRAWING IS RELATIVELY ACCURATE; ANY DIMENSIONS SHOWN ARE APPROXIMATE TO CENTERLINE FROM ASSUMED BUILDING PERIMETER. THE CONTRACTOR SHALL OBTAIN THE NECESSARY DIMENSIONS FOR ANY EXACT TAKEOFFS FROM THE ARCHITECT. NO ADDITIONAL COST TO THE OWNER WILL BE CONSIDERED FOR FAILURE TO OBTAIN EXACT DIMENSIONS WHERE NOT CLEAR OR IN ERROR ON THE DRAWINGS. ANY DEVICE OR FIXTURE ROUGHED IN IMPROPERLY AND NOT POSITIONED ON IMPLIED CENTER-LINES OR AS REQUIRED BY GOOD PRACTICE MUST BE REPOSITIONED AT NO COST TO THE OWNER.
6. ALL WORK AND MATERIALS SHALL BE GUARANTEED FREE FROM DEFECTS FOR A MINIMUM PERIOD OF ONE YEAR UNLESS NOTED OTHERWISE. THE WARRANTY PERIOD SHALL BEGIN AT THE DATE OF BENEFICIAL OCCUPANCY OF THE FACILITY.
7. THE CONTRACTOR IS RESPONSIBLE FOR FILING AND PAYING ALL FEES AND OBTAINING NECESSARY PERMITS AND CERTIFICATES OF INSPECTION. THE CONTRACTOR SHALL DELIVER ALL CERTIFICATES OF INSPECTION TO OWNER/CONSTRUCTION MANAGER INCLUDING COPIES WITH MAINTENANCE MANUALS.
8. ONLY EXPERIENCED CRAFTSMEN KNOWLEDGEABLE IN THEIR RESPECTIVE TRADE SHALL PERFORM THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS.
9. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA STANDARD 70 (NATIONAL ELECTRICAL CODE). CONTRACTOR SHALL ALSO CONFORM TO ALL APPLICABLE LOCAL CODES AND AMENDMENTS.
10. ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO SWITCHGEAR, CONDUIT, WIRE, BOXES AND FITTINGS SHALL BE NEW AND SHALL MEET NEMA AND ANSI STANDARDS AND SHALL BEAR THE UL LABEL.
11. PROVIDE SHOP DRAWINGS FOR ENGINEER'S REVIEW FOR ALL ELECTRICAL EQUIPMENT, DEVICES, AND MATERIALS PROPOSED TO BE PROVIDED UNDER THIS CONTRACT. ANY DEVIATIONS FROM ITEMS SPECIFIED SHALL BE CLEARLY IDENTIFIED AND SEPARATELY SUBMITTED WITH A FORMAL SUBSTITUTION REQUEST. REFER TO SPECIFICATIONS (PROJECT MANUAL) FOR REQUIREMENTS.

ELECTRICAL EQUIPMENT

1. PROVIDE AN IDENTIFICATION NAMEPLATE FOR EACH ELECTRICAL EQUIPMENT, APPURTENANCE DEPICTING THE DESIGNATION INDICATED ON THE DRAWINGS. REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS.
2. WEATHERPROOF ENCLOSURES SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT, DEVICES AND APPURTENANCES (ALL SYSTEMS) INSTALLED OUTDOORS.
3. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL POWER OUTAGES WITH OWNER'S REPRESENTATIVE.
4. CONTRACTOR SHALL NOT USE PERMANENT INK WHEN MAKING FIELD MARKINGS OR TEMPORARY CIRCUIT LABELS ON PANELS. CONTRACTOR SHALL USE REMOVABLE TAPE/TAGS FOR ALL TEMPORARY MARKINGS AND SHALL REMOVE THESE TEMPORARY MARKINGS AT THE CONCLUSION OF THIS PROJECT.

CONDUIT & RACEWAY

1. ALL WORK SHALL BE COORDINATED SO THAT INTERFERENCES ARE AVOIDED. PROVIDE ALL NECESSARY OFFSETS IN CONDUITS, RACEWAYS, ETC., REQUIRED TO PROPERLY INSTALL THE WORK. EXPOSED WORK MUST BE KEPT AS CLOSE AS POSSIBLE TO WALLS, CEILINGS, COLUMNS, ETC., SO AS TO TAKE UP MINIMUM AMOUNT OF SPACE; ALL OFFSETS, FITTINGS, ETC., REQUIRED SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. WORK SHALL BE COORDINATED WITH OTHER TRADES.
2. CONDUIT RUNS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER N.E.C. AND FOR COORDINATION WITH OTHER DISCIPLINES.
3. CONTRACTOR SHALL PROVIDE AND INSTALL ADEQUATE SUPPORTS NECESSARY FOR THE RACEWAY SYSTEM. THIS INCLUDES BUT IS NOT LIMITED TO BLOCKING FOR SURFACE AND FLUSH MOUNTED PANELS. CONTRACTOR SHALL REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SIZES AND QUANTITIES OF ALL SUPPORTING MEANS.
4. PENETRATIONS OF WALLS, FLOORS, AND ROOFS FOR THE PASSAGE OF ELECTRICAL RACEWAYS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF WORK. ALL SUCH PENETRATIONS SHALL BE PROPERLY SEALED OFF AFTER INSTALLATION OF RACEWAY SO AS TO MAINTAIN THE STRUCTURAL, WATER PROOF, AND FIRE PROOF INTEGRITY OF THE WALL, FLOOR, OR ROOF SYSTEM PENETRATED.
5. THE CONTRACTOR SHALL SEAL ALL CONDUITS THAT PENETRATE THE FLOOR SLAB TO MAKE THEM WATER TIGHT. THE CONDUITS SHALL BE DRIED PRIOR TO INSTALLATION OF WIRE/CABLE AND SHALL BE SEALED AT TERMINATIONS.
6. ALL PENETRATIONS THROUGH FIRE RATED WALLS OR PARTITIONS SHALL BE MADE IN ACCORDANCE WITH U.L. 483 "FIRE RESISTANCE DIRECTORY". PENETRATIONS SHALL BE SLEEVED AND SEALED WITH A UL APPROVED FIRE RATED SEALANT. REFER TO ARCHITECTURAL PLANS FOR FIRE RATED WALLS.
7. ALL EMPTY CONDUIT SYSTEMS SHALL CONTAIN A PULL WIRE FOR FUTURE PULLING OF CONDUCTORS.

BRANCH CIRCUITS AND FEEDERS

1. UNLESS NOTED OTHERWISE, ALL CIRCUITS 100' OR LESS SHALL BE MINIMUM #12 AWG WIRE SIZE. CIRCUITS OVER 100' BUT LESS THAN 200' SHALL BE MINIMUM #10 AWG WIRE SIZE. CIRCUITS OVER 200' SHALL BE MINIMUM #8 AWG WIRE SIZE.
2. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT. CONDUCTOR SIZES #12 AWG AND SMALLER SHALL BE SOLID. CONDUCTOR SIZES #10 AWG AND LARGER MAY BE STRANDED.
3. A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED WITH THE CIRCUIT CONDUCTORS FOR GROUNDING WHETHER OR NOT INDICATED ON THE DRAWINGS. METAL RACEWAY, OR A CABLE ARMOR OR SHEATH SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR.
4. CONTRACTOR SHALL GROUND ALL EQUIPMENT AND ELECTRICAL SYSTEM PER N.E.C.

WIRING DEVICES

1. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION AND MOUNTING HEIGHT OF ALL WALL AND FLOOR MOUNTED ELEMENTS (OUTLETS, LIGHT SWITCHES, CONTROLLERS, POKE-THRU, ETC). ALL WALL/FLOOR MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL DIMENSIONED DRAWINGS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL WALL/FLOOR TYPES IN ALL AREAS. DO NOT SCALE OR DIMENSION LOCATIONS FROM THESE DRAWINGS.
2. CONTRACTOR SHALL COORDINATE THE LOCATION AND INSTALLATION DETAIL OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS (WALL ELEVATIONS, MILLWORK DETAILS, ETC.) AND WITH MILLWORK MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN.
3. WALL AND FLOOR MOUNTED POWER RECEPTACLES SHOWN NEAR DATA OUTLETS SHALL BE LOCATED WITHIN SIX (6) INCHES OF THE DATA OUTLET. LOCATE AT SAME MOUNTING HEIGHT UNLESS NOTED OTHERWISE.
4. PROVIDE METAL BACKBOX MOUNTING BRACKET (CADDY #RBS SERIES OR SIMILAR) TO MOUNT DEVICE BETWEEN METAL/WOOD STUDS AT SAME ELEVATION AND EQUAL SPACING.
5. CONTRACTOR SHALL VERIFY THE EXACT POWER CONNECTION TYPE AND NEMA CONFIGURATION OF RECEPTACLES FOR EQUIPMENT FURNISHED BY THE OWNER, OTHER TRADES, OR UNDER A SEPARATE SECTION OF THIS CONTRACT PRIOR TO ELECTRICAL ROUGH-IN.
6. MOUNT ALL RECEPTACLES THROUGHOUT THE PROJECT WITH THE GROUND POLE AT THE TOP OF THE CONFIGURATION WHEN MOUNTED VERTICALLY, AND ON THE RIGHT WHEN MOUNTED HORIZONTALLY.
7. ALL RECEPTACLES WITHIN SIX FEET OF ANY PLUMBING FIXTURE AND/OR SINK SHALL BE EQUIPPED WITH GFCI FOR PERSONNEL PROTECTION.
8. ALL RECEPTACLES LOCATED OUTSIDE THE BUILDING ENVELOPE SHALL BE HOUSED IN ENCLOSURES THAT ARE RATED 'WEATHER-PROOF-WHILE-IN-USE' AND SHALL BE EQUIPPED WITH GFCI FOR PERSONNEL PROTECTION.
9. ALL GFCI RECEPTACLES SHALL BE CONNECTED SO THAT ALL DEVICES ON THE SAME CIRCUIT AS THE GFCI RECEPTACLE DO NOT DE-ENERGIZE UPON TRIPPING. ALL GFCI RECEPTACLES SHALL INCLUDE A LOCK-OUT FUNCTION TO PROTECT AGAINST THE USE OF MISWIRED DEVICES OR DEVICES THAT HAVE BEEN DAMAGED DUE TO DISABLING SURGES.
10. FINISH COLORS OF DEVICES AND CORRESPONDING COVER PLATES SHALL BE SELECTED AND APPROVED BY THE ARCHITECT. SPECIALTY RECEPTACLES AND COVERPLATES (I.E. ISOLATED GROUND, EMERGENCY, CRITICAL BRANCH, SURGE SUPPRESSION, ETC.) SHALL BE THE COLOR NOTED IN ELECTRICAL CONSTRUCTION DOCUMENTS.

LIGHTING SYSTEM

1. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION OF ALL CEILING ELEMENTS (LIGHTS, SPRINKLERS, DIFFUSERS, ETC). ALL CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL DIMENSIONED DRAWINGS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS. DO NOT SCALE OR DIMENSION LOCATIONS FROM THESE DRAWINGS.
2. CONTRACTOR SHALL PROVIDE AND INSTALL ALL SUPPORTS FOR LIGHT FIXTURES. SUPPORTS SHALL BE INDEPENDENT OF THE CEILING GRID SUPPORT SYSTEM.
3. LIGHT SWITCHES LOCATED IN A ROOM SHALL CONTROL ALL THE LIGHT FIXTURES IN THAT ROOM UNLESS NOTED OTHERWISE. CONTRACTOR SHALL GANG TOGETHER ALL SWITCHES/DIMMERS UNDER A SINGLE COVER PLATE IN ALL AREAS THAT REQUIRE MORE THAN ONE SWITCH TO CONTROL ELECTRICAL DEVICES.
4. WALLBOX DIMMERS SHALL BE INSTALLED IN A MANNER SUCH THAT THEIR LISTED WATTAGE IS NOT DERATED DUE TO HEAT. SPACE ACCORDING TO DIMMER MANUFACTURER'S RECOMMENDATIONS AND PROVIDE 'WIDE-FIN' DESIGN DIMMERS WHERE REQUIRED.
5. ALL LIGHT FIXTURES SHALL BE INSTALLED WITH APPROPRIATE LAMPS AS INDICATED. FIXTURES SHALL ALSO BE INSTALLED WITH BALLASTS WHERE NECESSARY.

OCCUPANCY SENSOR NOTES:

1. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
2. ULTRASONIC CEILING MOUNT SENSORS SHOULD BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
3. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR NON-ADAPTIVE PRODUCTS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
4. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS:
   A. ONE POWER PACK IS REQUIRED FOR EACH CONTROLLED CIRCUIT;
   B. SEVERAL SENSORS AND ADD-A-RELAYS CAN BE WIRED IN PARALLEL TO A SINGLE POWER PACK, NOT TO EXCEED 150mA TOTAL POWER CONSUMPTION.
   C. IF MULTIPLE CIRCUITS ARE TO BE CONTROLLED BY A SINGLE SENSOR, AUXILIARY RELAYS MAY BE USED IN CONJUNCTION WITH A POWER PACK.
5. SENSORS MOUNTED OVER DOORWAYS SHOULD BE PLACED ONE (1) FOOT INSIDE THRESHOLD.

MECHANICAL & PLUMBING COORDINATION

1. CONTRACTOR SHALL REFERENCE THE MECHANICAL AND PLUMBING DRAWINGS FOR ALL EQUIPMENT NEEDING ELECTRICAL CONNECTIONS. MAKE ALL CONNECTIONS AND PROVIDE APPROPRIATE WIRE, CONDUIT, AND OVERCURRENT PROTECTION FOR ALL EQUIPMENT.
2. DISCONNECTING MEANS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE MOUNTED INDEPENDENTLY OF THE EQUIPMENT.
3. ALL CIRCUIT BREAKERS SERVING MECHANICAL EQUIPMENT SHALL BEAR AN 'HACR' RATING.
4. CONTRACTOR SHALL COORDINATE BETWEEN TRADES AND PROVIDE CONTROL POWER FOR ALL VAV BOXES/DAMPERS/ETC, AS REQUIRED TO ENSURE A COMPLETE, FULLY FUNCTIONAL HVAC SYSTEM. SHOULD AN EXACT CIRCUIT NUMBER NOT BE INDICATED ON ELECTRICAL DRAWINGS, CONTRACTOR SHALL UTILIZE AVAILABLE 20A/1P SPACE FROM THE NEAREST 208V/120V PANEL OR FROM BUILDING CONTROL POWER DISTRIBUTION SYSTEM.
5. CONTRACTOR SHALL COORDINATE MOTOR DISCONNECT AND CONTROL WITH MECHANICAL DRAWINGS AND BETWEEN TRADES.
6. COORDINATE ALL REQUIRED ENERGY MANAGEMENT SYSTEM POINTS AND CONTACT CONNECTIONS TO ENSURE THE COMPLETE AND PROPER OPERATION OF ALL SYSTEMS.
7. ALL DISCONNECTS DOWN STREAM OF VFDs SHALL BE PROVIDED WITH AUXILIARY CONTACTS TO SHUT DOWN UPSTREAM VFD WHEN SWITCH IS OPENED.

EMERGENCY POWER SYSTEM

1. ALL EMERGENCY SYSTEMS SHALL BE RUN IN A SEPARATE RACEWAY/CONDUIT SYSTEM AND SHALL BE CLEARLY LABELED AS SUCH.

DOOR HARDWARE COORDINATION

1. CONTRACTOR SHALL PROVIDE 120V, 20A CIRCUIT CONNECTION TO ALL DOOR HEADERS WITH ELECTRONIC DEVICES. EACH DOOR CONNECTION SHOULD BE PROVIDED WITH LOCAL DISCONNECTING MEANS.
2. COORDINATE ALL DOOR CONNECTIONS WITH FIRE ALARM SYSTEM. FIRE ALARM SYSTEM SHALL PROVIDE ALL RELAYS FOR CONNECTION TO ELECTRONICALLY OPERATED DOORS. FIRE ALARM SYSTEM SHALL PROVIDE ALL RELAYS WITH AN EXTERNAL TEST SWITCH FOR FACILITY TESTING.

DEMOLITION NOTES

1. PROVIDE UPDATED, TYPE-WRITTEN PANEL DIRECTORY OF ALL CORRECT CIRCUITS WITH LOAD DEFINITIONS FOR EACH PANEL BOARD. DIRECTORY SHALL BE LOCATED INSIDE PANEL DOOR.
2. INFORMATION PROVIDED ON THESE DRAWINGS HAS BEEN TAKEN FROM DESIGN DRAWINGS AND FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PRICING AND COMMENCEMENT OF WORK.
3. WHERE EXISTING WALLS ARE DEMOLISHED, REMOVE ALL EXISTING ELECTRICAL DEVICES AND THEIR ASSOCIATED CONDUITS AND WIRING BACK TO THE POINT OF ORIGINATION. ENERGIZE ALL EXISTING DEVICES THAT WERE INTERRUPTED DURING DEMOLITION. WHERE ENTIRE CIRCUITS ARE REMOVED, TURN THE CIRCUIT BREAKER OFF AND LABEL AS "SPARE".
4. PROVIDE FOR ANY AND ALL DEMOLITION WORK NECESSARY TO ACCOMMODATE ALL NEW CONSTRUCTION, INCLUDING ARCHITECTURAL, MECHANICAL, PLUMBING OR ELECTRICAL WORK.
5. IF DEMOLITION IS REQUIRED TO INSTALL AN ITEM, THE CONTRACTOR SHALL RESTORE THE AREA TO PREVIOUS CONDITION, OR REPLACE DAMAGED ITEMS WITH NEW ITEMS TO MATCH EXISTING.
6. DESIGNATION 'EX' REPRESENTS EXISTING DEVICE OR LIGHT FIXTURE TO REMAIN AS CIRCUITED AND SWITCHED UNLESS NOTED OTHERWISE. EXISTING LIGHT FIXTURES SHALL BE CLEANED AND REPAIRED AS REQUIRED.
7. CONTRACTOR SHALL REMOVE ALL CONDUIT AND WIRING ASSOCIATED WITH DEVICES AND EQUIPMENT TO BE REMOVED AND/OR RELOCATED UNLESS NOTED OTHERWISE. PROVIDE AND INSTALL ALL NECESSARY DEVICES, EQUIPMENT AND ACCESSORIES REQUIRED TO MAINTAIN SERVICE TO ALL "EXISTING TO REMAIN" DEVICES AND EQUIPMENT THAT MAY BE INTERRUPTED DURING DEMOLITION.
8. WHERE EXISTING MECHANICAL/PLUMBING EQUIPMENT IS DEMOLISHED, REMOVE ALL RELATED ELECTRICAL FEEDS TO THE EQUIPMENT AND THEIR ASSOCIATED CONDUITS BACK TO THE POINT OF ORIGINATION.
9. SPACE ALLOCATIONS FOR MATERIALS, EQUIPMENT AND DEVICES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT OR DEVICES OF A PARTICULAR MANUFACTURER, WHETHER INDICATED OR NOT. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND DEVICES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE.
10. REFER TO ARCHITECTURAL PLANS FOR AREAS WHERE CEILING IS DEMOLISHED. REMOVE ALL LIGHTING FIXTURES AND ASSOCIATED CONDUIT AND WIRING FROM THESE LOCATIONS.
11. ALL RECEPTACLES WITHIN THE PROJECT SCOPE SHALL BE HOSPITAL GRADE TYPE. IF A DEVICE IS INDICATED AS EXISTING TO REMAIN AND IS NOT A HOSPITAL GRADE RECEPTACLE, REPLACE THE EXISTING DEVICE WITH A HOSPITAL GRADE RECEPTACLE AND RECONNECT TO EXISTING CIRCUIT.
12. ALL LIGHTING FIXTURES DEMOLISHED UNDER THESE DRAWINGS SHALL BE RETURNED TO THE OWNER.
13. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL SERVICE OUTAGES REQUIRED TO PROPERLY EXECUTE THIS PROJECT WITH OWNERS AUTHORIZED REPRESENTATIVE AND UTILITY COMPANY. PERFORM ALL WORK AS DIRECTED. INCLUDE SUITABLE ALLOWANCE IN BASE BID FOR ALL REQUIRED PREMIUM TIME, TEMPORARY EXTRA EQUIPMENT AND/OR MATERIALS FOR A COMPLETE AND OPERABLE INSTALLATION.

LIGHTING CONTROL SYSTEM COMMISSIONING

LIGHTING CONTROL SYSTEM SHALL BE COMMISSIONED IN ACCORDANCE WITH 2021 INTERNATIONAL ENERGY CODE SECTION C408. A FUNCTIONAL TESTING REPORT PROVIDED BY A THIRD PARTY COMMISSIONING AGENT SHALL BE PROVIDED TO THE OWNER AND AUTHORITY HAVING JURISDICTION. IT IS THE RESPONSIBILITY OF THE COMMISSIONING AGENT TO PROVIDE COMMISSIONING SCOPE OF WORK AND DOCUMENTATION FOR THE LIGHTING CONTROL SYSTEM WHICH INCLUDES THE FOLLOWING:

1. FUNCTION TEST TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. WHERE OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE SCHEDULE CONTROLS, PHOTOSENESORS OR DAYLIGHTING CONTROLS ARE INSTALLED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED;
   A. CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR OCCUPANCY YIELD ACCEPTABLE PERFORMANCE.
   B. CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
   C. CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN SPACE AS SPECIFIED.
3. FUNCTIONAL TESTING REPORT.

SEE 2021 IECC FOR COMPLETE LIST OF REQUIREMENTS.

HCA INNOVATION MEMORANDUMS

A. CONTRACTOR SHALL PURCHASE DIVISION 23 DEVICES FROM HCA PREFERRED VENDOR LIST PER INNOVATION MEMO #2 AND #2A.
   1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ON APPROVED MANUFACTURERS.

B. CONTRACTOR SHALL PURCHASE ALL INTERIOR AND EXTERIOR LIGHTING FIXTURES PER REQUIREMENTS IN INNOVATION MEMO #5.
   1. LINDA LARD
      GRAYBAR NASHVILLE
      HCA@GRAYBAR.COM
      (615) 743-3208

C. CONTRACTOR SHALL PURCHASE ALL WIRING DEVICES, SAFETY SWITCHES, CONDUCTORS, RACEWAY, GROUNDING SYSTEMS, HANGERS, JUNCTION BOXES, ISOLATION PANELS, AND CABINETS, PER THE REQUIREMENTS IN INNOVATION MEMO #16.
   1. LANCE SMITH
      CED NASHVILLE
      HCA@CED-NASHVILLE.COM
      (615) 329-2601
      (615) 207-7223
   2. LINDA LARD
      GRAYBAR NASHVILLE
      HCA@GRAYBAR.COM
      (615) 743-3232

ELECTRICAL ABBREVIATIONS

AAP	AREA ALARM PANEL	MCC	MOTOR CONTROL CENTER
AFC	ABOVE FINISHED COUNTER	MDP	MAIN DISTRIBUTION PANEL
ATS	AUTOMATIC TRANSFER SWITCH	MH	MANHOLE
BFC	BELOW FINISHED CEILING	MLO	MAIN LUGS ONLY
BOF	BOTTOM OF FIXTURE	MTD	MOUNTED
C	CONDUIT	N	NEW DEVICE
CB, C/B OR CKT BRK	CIRCUIT BREAKER	NC, (N.C.)	NORMALLY CLOSED
		NEC	NATIONAL ELECTRIC CODE
CKT	CIRCUIT	NF	NONFUSED
CCTV	CLOSED CIRCUIT T.V.	NIC	NOT IN CONTRACT
CLG	CEILING	NL	NIGHT LIGHT
CUH	CABINET UNIT HEATER	NO, (N.O.)	NORMALLY OPEN
EC	EMPTY CONDUIT	PB	PULL BOX
ELEC	ELECTRIC	PNL	PANEL
E	EMERGENCY	PWR	POWER
EMS	ENERGY MANAGEMENT SYSTEM	R	REMOVE DEVICES
EP	EXPLOSION PROOF	RL	RELOCATED DEVICE
EWC	ELECTRIC WATER COOLER	RCPT(S), OR RECEPT	RECPETACLE(S)
EX	EXISTING		
EX-R	EXISTING TO BE RELOCATED	RF	RETURN AIR FAN
F	FUSE	SEF	SMOKE EXHAUST FAN
FA	FIRE ALARM	SF	SUPPLY AIR FAN
FACP, FAP	FIRE ALARM CONTROL PANEL	SO (S.O.)	SPACE ONLY
FCU	FAN COIL UNIT	SP	SPARE
FIXT	FIXTURE	SPD	SURGE-PROTECTIVE DEVICE
FLR	FLOOR	ST (S.T.)	SHUNT TTRIP
FLUOR	FLUORESCENT	SW	SWITCH
FTPS, FTS	FAN TERMINAL UNIT	TEL	TELEPHONE
FTU	FAN TERMINAL UNIT	TF	TRANSFER FAN
FUT	FUTURE	TP	TAMPER PROOF
G, GND	GROUND	TV	TELEVISION
GEF	GENERAL EXHAUST FAN	UF	UNDERFLOOR
GEN	GENERATOR	UG	UNDERGROUND
GFI, GCFI	GROUND FAULT CIRCUIT INTERRUPTER	UH	UNIT HEATER
H	DEVICE MOUNTED HORIZONTALLY	UNO (UON)	UNLESS OTHERWISE NOTED
HP	HORSEPOWER	V	VOLTAGE
HV	HIGH VOLTAGE	VFD	VARIABLE FREQUENCY DRIVE
HWAT	HEAT TRACE	VP	VAPOR PROOF
IC	INTERRUPTING CAPACITY	VV	VARIABLE VOLUME UNIT
ICAND	INCANDESCENT	W	WIRE
IG	ISOLATED GROUND	W/	WITH
JB	JUNCTION BOX	WG	WIRE GUARD
KEF	KITCHEN EXHAUST FAN	WP	WEATHERPROOF
LTG	LIGHTING	WT	WATERTIGHT
LTS	LIGHTS	XFMR	TRANSFORMER
LV	LOW VOLTAGE	+xx	MOUNTING HEIGHT IN INCHES. AFF UNO.
MATV	MASTER ANTENNA		
MCB	MAIN CIRCUIT BREAKER		

KEY TO GENERAL NOTATIONS AND MOUNTING HEIGHTS

48" AFF INDICATES TO TOP OF DEVICE;
18" AFF INDICATES TO CENTER OF DEVICE;
60" AFF INDICATES TO BOTTOM OF DEVICE;
80" AFF INDICATES TO BOTTOM OF DEVICE;
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE

(#) LEGEND NOTE: DENOTES "SEE LEGENDS NOTE #"

REF: 02/E-202 - DENOTES: REFERENCE 02 ON DRAWING (SHEET) E-202

20.4 - FEEDER TAG. FEEDER SIZES ARE DETERMINED BY THE FEEDER SCHEDULE.

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

LIGHTING SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	2'x4' RECESSED LIGHT FIXTURE.	SEE FIXTURE SCHEDULE
	2'x4' RECESSED LIGHT FIXTURE WITH INBOARD AND OUTBOARD ON SEPARATE CONTROL. REFER TO CIRCUITING FOR ADDITIONAL INFORMATION.	SEE FIXTURE SCHEDULE
	2'x2' RECESSED LIGHT FIXTURE.	SEE FIXTURE SCHEDULE
	2'x2' RECESSED LIGHT FIXTURE WITH INBOARD AND OUTBOARD ON SEPARATE CONTROL. REFER TO CIRCUITING FOR ADDITIONAL INFORMATION.	SEE FIXTURE SCHEDULE
	WALL MOUNTED LINEAR FIXTURE.	SEE FIXTURE SCHEDULE
	RECESSED/SURFACE MOUNTED/CHAIN HUNG LINEAR FIXTURE.	SEE FIXTURE SCHEDULE
	RECESSED/SURFACE DOWNLIGHT FIXTURE.	SEE FIXTURE SCHEDULE
	WALL MOUNTED FIXTURE.	SEE FIXTURE SCHEDULE
	RECESSED DOWNLIGHT FIXTURE WITH WALL WASH.	SEE FIXTURE SCHEDULE
	HANGING RECTANGULAR PENDANT FIXTURE.	SEE FIXTURE SCHEDULE
	HANGING CIRCULAR PENDANT/SURFACE MOUNTED DRUM FIXTURE.	SEE FIXTURE SCHEDULE
	WALL MOUNTED 90-MINUTE BATTERY-POWERED EGRESS LIGHTING ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
	CEILING MOUNTED EXIT SIGN. SHADING INDICATES DOUBLE OR SINGLE FACE. ARROW INDICATES CHEVRON DIRECTIONS.	SEE FIXTURE SCHEDULE
	WALL MOUNTED EXIT SIGN. SHADING INDICATES DOUBLE OR SINGLE FACE. ARROW INDICATES CHEVRON DIRECTIONS.	SEE FIXTURE SCHEDULE
	WALL PACK LIGHT FIXTURE.	SEE FIXTURE SCHEDULE
	BOLLARD/IN-GRADE LIGHT FIXTURE.	SEE FIXTURE SCHEDULE
	EXTERIOR LIGHT POLE FIXTURE.	SEE FIXTURE SCHEDULE
	SPOT/FLOOD LIGHT FIXTURE.	SEE FIXTURE SCHEDULE

LIGHTING HATCHING LEGEND

LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.

CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.

LIGHTING NOTES:
1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS AND MOUNTING REQUIREMENTS FOR ALL LIGHT FIXTURES.

LIGHT SWITCH SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
$	WALL SWITCH, 20A, 120/277V	48" AFF
$3	3-WAY WALL SWITCH, 20A, 120/277V	48" AFF
$4	4-WAY WALL SWITCH, 20A, 120/277V	48" AFF
$D	WALL DIMMER SWITCH	48" AFF
$K	KEY OPERATED WALL SWITCH	48" AFF
$3D	3-WAY DIMMER WALL SWITCH, 20A, 120/277V	48" AFF
$3K	3-WAY KEY OPERATED WALL SWITCH, 20A, 120/277V	48" AFF
$MC	MOMENTARY WALL SWITCH, 20A, 120/277V	48" AFF
$LV	LOW VOLTAGE WALL SWITCH	48" AFF

LIGHTING NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.

OCCUPANCY SENSOR/CONTROLS SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
OS DT	OCCUPANCY SENSOR, DUAL TECHNOLOGY	CEILING MOUNTED
VS DT	VACANCY SENSOR, DUAL TECHNOLOGY	CEILING MOUNTED
PC	INTERIOR PHOTOCELL (REFER TO MANUFACTURER MOUNTING REQUIREMENTS)	CEILING MOUNTED
$O	WALL SWITCH OCCUPANCY SENSOR CONTROL	48" AFF
$OT	WALL TIMER SWITCH OCCUPANCY SENSOR CONTROL	48" AFF
$V	WALL SWITCH VACANCY SENSOR CONTROL	48" AFF
$DV	WALL SWITCH VACANCY SENSOR W/ DIMMER CONTROL	48" AFF

OCCUPANCY SENSOR/CONTROLS NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.

RECEPTACLE SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO
	SINGLE RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP	8" AFC OR 42" AFF
	QUADRAPLEX RECEPTACLE (TWO DUPLEX RECEPTACLES UNDER ONE COVERPLATE)	18" AFF
	QUADRAPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP (TWO DUPLEX RECEPTACLES UNDER ONE COVERPLATE)	8" AFC OR 42" AFF
	SPECIAL PURPOSE RECEPTACLE (NEMA NO. AS INDICATED)	18" AFF
	FLOOR MOUNTED RECEPTACLE IN FLOOR BOX OR POKE-THRU DEVICE - FLUSH MOUNTED, UNO	--
	CEILING MOUNTED RECEPTACLE - CONFIGURATION UNO	FLUSH W/ CLG SURFACE
	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED	AS REQUIRED
D/T	WALL MOUNTED JUNCTION BOX FOR DATA/TELEPHONE - SIZE & MOUNTING AS REQUIRED	AS REQUIRED

RECEPTACLE TAG LEGEND

RECEPTACLE NOTES:
1. REFER TO FLOOR PLAN DRAWINGS FOR ADDITIONAL MOUNTING HEIGHTS. CONFIRM ALL MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS.

POWER SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO
X/Y/Z X/-/Z CB X/Z	DISCONNECT SWITCH FUSED - X/Y/Z (X=FRAME SIZE, Y=FUSE SIZE, Z=NUMBER OF POLES) NON-FUSED - X/-/Z(X=FRAME SIZE, Z=NUMBER OF POLES) CIRCUIT BREAKER - CB X/Y/Z (X=FRAME SIZE, Z=NUMBER OF POLES)	AS REQUIRED
$M	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD AND PILOT LIGHT	AS REQUIRED
	EMERGENCY POWER OFF BUTTON - WALL MOUNTED	AS REQUIRED
	CIRCUIT HOMERUN TO PANELBOARD (2#12, 1#12G, 3/4"C. 20A/1P CB UNO)	--
X,X,X	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS	--
X/X/X	MULTI-POLE DEVICE CIRCUIT NUMBERS	--
	208Y/120V PANELBOARD	--
	480Y/277V PANELBOARD	--
	208Y/120V DISTRIBUTION PANELBOARD	--
	480Y/277V DISTRIBUTION PANELBOARD	--
	ISOLATION PANEL	--
	SWITCHBOARD	--
T	STEP-DOWN TRANSFORMER	--
	AUTOMATIC TRANSFER SWITCH	--
	BY-PASS / ISOLATION AUTOMATIC TRANSFER SWITCH	--
	GROUND BAR	--
GAP	GENERATOR ANNUNCIATOR PANEL	AS REQUIRED
ATSA	AUTOMATIC TRANSFER SWITCH ANNUNCIATOR PANEL	AS REQUIRED
SPD	TRANSIENT VOLTAGE AND SURGE SUPPRESSOR DEVICE	AS REQUIRED
AAP	AREA ALARM PANEL	AS REQUIRED
FOAP	FUEL OIL ALARM PANEL	AS REQUIRED
MGAP	MEDICAL GAS ALARM PANEL - PANEL PROVIDED UNDER DIV 22	AS REQUIRED
DHTA	DECONTAMINATION HOLDING TANK ALARM - PANEL PROVIDED UNDER OTHER DIVISION	AS REQUIRED

FIRE ALARM SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO
F	FIRE ALARM PULL STATION WALL MOUNTED	48" AFF
	FIRE ALARM AUDIBLE VISUAL SIGNAL WALL MOUNTED	80" AFF
	FIRE ALARM AUDIBLE SIGNAL WALL MOUNTED	80" AFF
	FIRE ALARM VISUAL SIGNAL WALL MOUNTED	80" AFF
CLG	FIRE ALARM AUDIBLE VISUAL SIGNAL CEILING MOUNTED	--
CLG	FIRE ALARM AUDIBLE SIGNAL CEILING MOUNTED	--
CLG	FIRE ALARM VISUAL SIGNAL CEILING MOUNTED	--
FS	FIRE ALARM SPRINKLER FLOW SWITCH	--
TS	FIRE ALARM SPRINKLER TAMPER SWITCH	--
PS	FIRE ALARM SPRINKLER PRESSURE SWITCH	--
	SMOKE DETECTOR WALL MOUNTED	9" BFC
	SMOKE DETECTOR CEILING MOUNTED	--
	HEAT DETECTOR WALL MOUNTED	9" BFC
	HEAT DETECTOR CEILING MOUNTED	--
DH	ELECTRO-MAGNETIC DOOR HOLDER	AS REQUIRED
M	ELECTRO-MAGNETIC SMOKE DOOR HOLDER (INTERFACED WITH FIRE ALARM SYSTEM. DC POWER PROVIDED BY FIRE ALARM WIRING)	AS REQUIRED
FACP	FIRE ALARM CONTROL PANEL	REFER TO ARCH. ELEV.
FAAP	FIRE ALARM ANNUNCIATOR PANEL	REFER TO ARCH. ELEV.
FP	TELEPHONE JACK FOR FIREMAN'S PHONE (BY FIRE ALARM CONTRACTOR)	48" AFF

PROJECT DESIGN CRITERIA

LOCATION:	
CITY/STATE	AURORA, CO
APPLICABLE CODES:	
BUILDING	2015 IBC*
MECHANICAL	2015 IMC*
PLUMBING	2015 IPC*
ENERGY	2015 IECC*
ELECTRICAL	2020 NEC*
FIRE	2015 IFC*
LATITUDE:	
DEG. N. LAT.	39.69
ELEVATION:	
FT. ABOVE SEA LEVEL	5280

* WITH CITY OF AURORA BUILDING CODE AMENDMENTS.

RSN: 1707621
Permit #: 23-2315197 LT

Gresham Smith

GreshamSmith.com

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Franklin, TN 37067

COLORADO LICENSED JIMMY E. YOUSSEF 0050071 2/17/23 PROFESSIONAL ENGINEER

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

ELECTRICAL LEGENDS, NOTES, AND ABBREVIATIONS

E000

PROJECT: 45990.00
DATE: 02/17/23

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

2/16/2023 1:44:18 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/MEP_459900_TMCA ICU Build-Out.rvt

Drawn By: CL
Checked By: JY
Approved By: JY

COMcheck Software Version 4.1.5.0
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: TMCA - THIRD FLOOR ICU BUILD-OUT
Project Type: Alteration

Construction Site: 1501 South Potomac St Aurora, CO 80012
Owner/Agent:
Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Hospital	6155	1.05	6463
		Total Allowed Watts =	6463

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Hospital (6155 sq ft)				
LED 1: A1: 2x4 LED TROFFER: LED Panel 44W:	1	15	49	735
LED 2: AA1: 2x4 PATIENT BED TROFFER: LED Panel 110W:	1	12	191	2292
LED 3: EX: EXISTING SINGLE FACE EXIT SIGN: LED Linear 8W:	1	1	5	5
LED 4: EX: EXISTING 2x4 LED TROFFER: LED Panel 44W:	1	1	49	49
LED 5: EX: EXISTING 6" DOWNLIGHT: LED Panel 19W:	1	2	20	40
LED 6: EX-R: EXISTING SINGLE FACE EXIT SIGN: LED Linear 8W:	1	5	5	25
LED 7: EX-R: EXISTING 2x4 LED TROFFER: LED Panel 44W:	1	11	49	539
LED 8: K2: 2' VANITY: LED Panel 19W:	1	12	14	168
LED 9: M1: 6" DOWNLIGHT: LED Panel 19W:	1	68	20	1360
LED 10: M2: 6" DOWNLIGHT: LED Panel 36W:	1	12	37	444
LED 11: T1: NIGHT LIGHT: LED Linear 8W:	1	12	2	24
LED 12: X2: DOUBLE FACE EXIT SIGN: LED Linear 8W:	1	1	5	5
		Total Proposed Watts =		5686

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

COMcheck Software Version 4.1.5.0
Inspection Checklist

Energy Code: 2015 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15][1]	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1 [EL18][1]	Occupancy sensors installed in required spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1, C405.2.2.3 [EL23][2]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2.1 [EL22][2]	Automatic controls to shut off all building lighting installed in all buildings.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.3 [EL16][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.3, C405.2.3.1, C405.2.3.2 [EL20][1]	Primary sidelighted areas are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.3, C405.2.3.1, C405.2.3.3 [EL21][1]	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL4][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL8][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.4.1 [FI18][3]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C408.2.5.1 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.3 [FI33][3]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: William Griffin
Date: May 09, 2023
2021 INTERNATIONAL CODES & 2020 NEC

RSN: 1707621
Permit #: 23-2315197 LT

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General Contractors
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COLORADO LICENSED JIMMY S. YOUSSEF 0050071 2/17/23 PROFESSIONAL ENGINEER

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

ELECTRICAL ENERGY COMPLIANCE REPORT

E001

PROJECT: 45990.00
DATE: 02/17/23

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

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Drawn By: CL
Checked By: JY
Approved By: JY

This sheet of drawings has not been reviewed for code compliance.

1 THIRD FLOOR - POWER & SPECIAL SYSTEMS DEMOLITION PLAN
1/8" = 1'-0"
0' 4' 8' 16' 24'

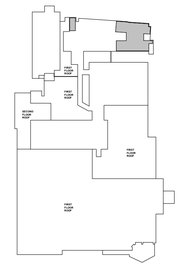
GENERAL NOTES

A. REFER TO SHEET E000 FOR LEGENDS, NOTES, AND ABBREVIATIONS.

LEGEND NOTES

1 EXISTING CEILING MOUNTED DEVICE SHALL BE REMOVED FOR CEILING REPLACEMENT AND REINSTALLED IN SAME LOCATION UPON CEILING COMPLETION.
2 (S) EXISTING SETS OF WIREMOLD

KEY PLAN



TRUE NORTH PLAN NORTH

RSN: 1707621
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THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
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THIRD FLOOR - POWER & SPECIAL SYSTEMS DEMOLITION PLAN

ED203

PROJECT: 45990.00
DATE: 02/17/23

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
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1 THIRD FLOOR - LIGHTING DEMOLITION PLAN
1/8" = 1'-0"
0' 4' 8' 16' 24'

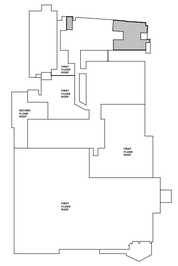
GENERAL NOTES

A. REFER TO SHEET E000 FOR LEGENDS, NOTES, AND ABBREVIATIONS.

LEGEND NOTES

1 EXISTING LIGHTING FIXTURE SHALL HAVE THE EXISTING SWITCHLEG RECONFIGURED TO MATCH THE NEW CONTROLS SHOWN.

KEY PLAN



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THIRD FLOOR ICU BUILD-OUT

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HCA Project No.: 2740000034

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THIRD FLOOR - LIGHTING DEMOLITION PLAN

ED303

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
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DATE: 02/17/23

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Drawn By: CL
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Approved By: JY

1 THIRD FLOOR - POWER PLAN
1/8" = 1'-0"
0' 4' 8' 16' 24'

Patient care areas must comply with the 2020 NEC Art. 517.

Locate the required overcurrent Protection per 2020 NEC 240.21

Install electrical connections per 2020 NEC 110.14, Identify disconnects per 2020 NEC 110.22 and provide working space around Electrical equipment per 2020 NEC 110.26

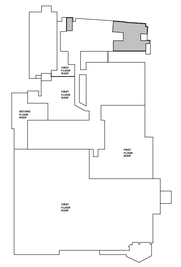
GENERAL NOTES

A. REFER TO SHEET E000 FOR LEGENDS, NOTES, AND ABBREVIATIONS.
B. DEAD FRONT GFCI DEVICES SHALL BE PROVIDED WHERE/EVER A GFCI RECEPTACLE IS NOT INSTALLED IN A READILY ACCESSIBLE LOCATION. REFER TO DETAIL 01/E701 FOR ADDITIONAL INFORMATION.
C. REFER TO ARCHITECTURAL ELEVATIONS FOR SPECIFIC DEVICE HEIGHTS.
D. REFER TO DETAILS ON THE T-SERIES DRAWINGS FOR ALL TV BACKBOX REQUIREMENTS.
E. REFER TO THE PANEL DIVISION LINES FOR CIRCUITING OF ELECTRICAL DEVICES, UNO. DEVICES DESIGNATED AS 'EX' SHALL BE CIRCUITED TO THE INDICATED CRITICAL BRANCH PANELBOARD.

LEGEND NOTES

1 DEVICE LOCATED WITHIN UPPER CASEWORK. COORDINATE LOCATION WITH ARCHITECTURAL ELEVATIONS.
2 SINGLE CHANNEL STEEL SURFACE MOUNTED RACEWAY, EQUAL TO LEGRAND 3000 SERIES, MOUNTED AT 45" AFF. INSTALL (1) 20A DUPLEX RECEPTACLE EVERY 1'-6" OC. RECEPTACLES SHALL BE WIRED TO ALTERNATE BETWEEN CIRCUITS.
3 SINGLE CHANNEL STEEL SURFACE MOUNTED RACEWAY, EQUAL TO LEGRAND 3000 SERIES, MOUNTED BELOW THE WINDOW. INSTALL (1) 20A DUPLEX RECEPTACLE EVERY 1'-6" OC. RECEPTACLES SHALL BE WIRED TO ALTERNATE BETWEEN CIRCUITS.
4 120V CONNECTION TO AUTO-DOOR OPERATOR / ACCESS CONTROLS. COORDINATE CONNECTION REQUIREMENTS AND REMOTE POWER SUPPLY LOCATIONS WITH DOOR HARDWARE VENDOR AND SECURITY CONTRACTOR.
5 CONNECT ALL VAV BOXES IN THIS AREA TO THE EQUIPMENT BRANCH CIRCUIT INDICATED. REFER TO THE MECHANICAL DRAWINGS FOR BOX LOCATIONS. CONNECTION A MAXIMUM OF 15 VAV BOES TO A SINGLE CIRCUIT. VAV BOXES IN A DIFFERENT SMOKE ZONES SHALL NOTE BE ON THE SAME CIRCUIT.
6 REPLACE THE EXISTING RECEPTACLE WITH A NEW GFCI RECEPTACLE. ALL EXISTING ROUGH-IN TO REMAIN.
7 120V CONNECTION TO THE NEW FIRE/SMOKE DAMPER. CONNECT TO THE EXISTING 120V EQUIPMENT BRANCH CIRCUIT SERVING OTHER FIRE/SMOKE DAMPERS ON THIS FLOOR.
8

KEY PLAN



TRUE NORTH PLAN NORTH

City of Aurora Building Division
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COLORADO LICENSED PROFESSIONAL ENGINEER 0050071 2/17/23

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
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HCA Project No.: 2740000034

Revision		
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THIRD FLOOR - POWER PLAN

E203.1

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
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An after-hours inspection to verify required egress illumination may be required during field inspection.
2015 IBC 1008

Patient care areas must comply with the 2020 NEC Art. 517.

Locate the required overcurrent Protection per 2020 NEC 240.21

Install electrical connections per 2020 NEC 110.14, Identify disconnects per 2020 NEC 110.22 and provide working space around Electrical equipment per 2020 NEC 110.26

Wiring in air handling space must comply with 2020 NEC 300.22. Firestop penetrations per 2020 NEC 300.21. Secure and support equipment per 2020 NEC 300.11.

Provide Emergency Illumination Equipment That complies with 2020 NEC 700.12(F) or NEC 700.

Suspended Ceiling Systems and the Luminaires They support shall meet the requirements of 410.36(B) 2020 NEC

1 THIRD FLOOR - LIGHTING PLAN
1/8" = 1'-0" 0' 4' 8' 16' 24'

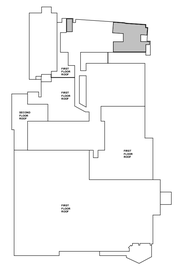
GENERAL NOTES

A. REFER TO SHEET E000 FOR LEGENDS, NOTES, AND ABBREVIATIONS.
B. ALL EXIT SIGNS SHALL BE WIRED FOR CONTINUOUS OPERATION.
C. REFER TO THE PANEL DIVISION LINES FOR CIRCUITING OF ELECTRICAL DEVICES, U/NO. FIXTURE HATCHING INDICATES THE BRANCH OF POWER. EXIT SIGNS SHALL BE CIRCUITED TO THE INDICATED LIFE SAFETY BRANCH PANELBOARD.

LEGEND NOTES

1 EXISTING LIGHTING FIXTURE SHALL HAVE THE EXISTING SWITCHLEG RECONFIGURED TO MATCH THE NEW CONTROLS SHOWN.
2 CONNECT LIGHTING FIXTURE TO THE EXISTING NORMAL BRANCH LIGHTING CIRCUIT SERVING THE EXISTING CORRIDOR PRIOR TO CONSTRUCTION, INDICATED TO BE 3NH-3 ON RECORD DOCUMENTS. EXISTING LOAD = 3400VA, DEMOLISHED LOAD = 245, ADDED LOAD = 343, NEW CIRCUIT LOAD = 3498VA
3 CONNECT LIGHTING FIXTURE TO THE EXISTING LIFE SAFETY BRANCH LIGHTING CIRCUIT SERVING THE EXISTING CORRIDOR PRIOR TO CONSTRUCTION, INDICATED TO BE 2LSH-3 ON RECORD DOCUMENTS. EXISTING LOAD = 2400VA, DEMOLISHED LOAD = 245, ADDED LOAD = 392, NEW CIRCUIT LOAD = 2547VA

KEY PLAN



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THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
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HCA Project No.: 2740000034

Revision		
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THIRD FLOOR - LIGHTING PLAN

E303.1

PROJECT: 45990.00
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Drawn By: CL
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1 THIRD FLOOR - SPECIAL SYSTEMS PLAN
1/8" = 1'-0"
0' 4' 8' 16' 24'

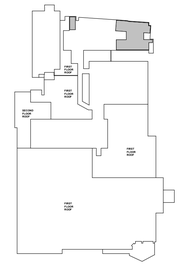
GENERAL NOTES

A. REFER TO SHEET E000 FOR LEGENDS, NOTES, AND ABBREVIATIONS.
B. NEW FIRE ALARM DEVICES SHALL BE PRODUCTS OF THE EXISTING FIRE ALARM SYSTEM MANUFACTURER AND SHALL BE CONNECTED TO THE EXISTING FIRE ALARM SYSTEM. UTILIZE THE EXISTING FIRE ALARM MAINTENANCE CONTRACTOR FOR INSTALLATION OF NEW FIRE ALARM DEVICES AND MODIFICATIONS OF THE EXISTING SYSTEM AS REQUIRED TO ACCOMMODATE THE INSTALLATION.
C. PROVIDE SMOKE DETECTORS UPSTREAM OF EACH NEW SMOKE AND FIRE/SMOKE DAMPER. REFER TO DETAILS FOR ADDITIONAL INFORMATION. COORDINATE DAMPER LOCATIONS WITH THE MECHANICAL DRAWINGS. REFER TO DETAIL 5/E701 FOR ADDITIONAL INFORMATION.

LEGEND NOTES

1 EXISTING CEILING MOUNTED DEVICE SHALL BE REMOVED FOR CEILING REPLACEMENT AND REINSTALLED IN SAME LOCATION UPON CEILING COMPLETION.

KEY PLAN



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wsp

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PROFESSIONAL ENGINEER

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
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THIRD FLOOR - SPECIAL SYSTEMS PLAN

E403.1

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Patient care areas must comply with the 2020 NEC Art. 517.

Locate the required overcurrent Protection per 2020 NEC 240.21

Install electrical connections per 2020 NEC 110.14, Identify disconnects per 2020 NEC 110.22 and provide working space around Electrical equipment per 2020 NEC 110.26

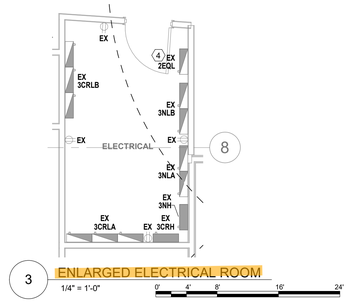
Wiring in air handling space must comply with 2020 NEC 300.22. Firestop penetrations per 2020 NEC 300.21. Secure and support equipment per 2020 NEC 300.11.

GENERAL NOTES

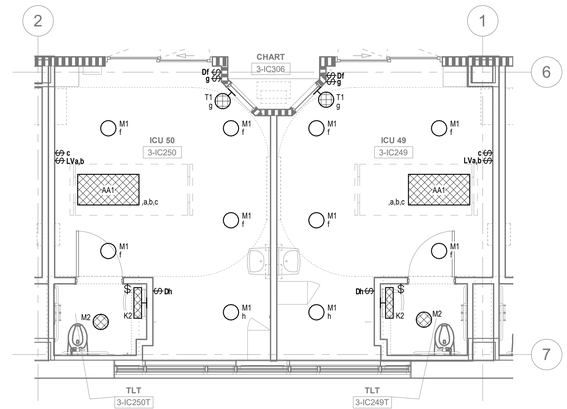
A. REFER TO SHEET E000 FOR LEGENDS, NOTES, AND ABBREVIATIONS.
B. DEAD-FRONT GFCI DEVICES SHALL BE PROVIDED WHEREVER A GFCI RECEPTACLE IS NOT INSTALLED IN A READILY ACCESSIBLE LOCATION. REFER TO DETAIL 0/HE701 FOR ADDITIONAL INFORMATION.
C. REFER TO ARCHITECTURAL ELEVATIONS FOR SPECIFIC DEVICE HEIGHTS.
D. REFER TO DETAILS ON THE T-SERIES DRAWINGS FOR ALL TV BACKBOX REQUIREMENTS.
E. REFER TO THE PANEL DIVISION LINES FOR CIRCUITING OF ELECTRICAL DEVICES, UNO. DEVICES DESIGNATED AS 'EXX' SHALL BE CIRCUITED TO THE INDICATED CRITICAL BRANCH PANELBOARD.

LEGEND NOTES

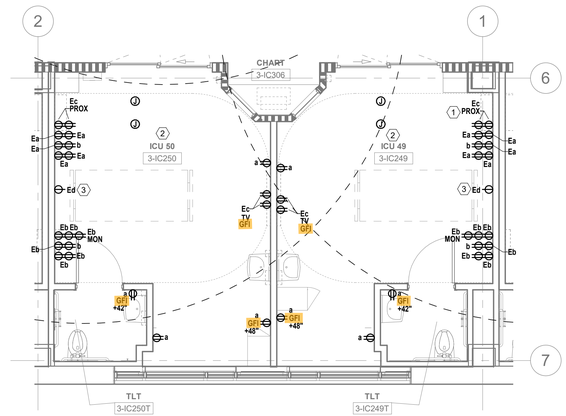
1 COORDINATE EXACT MOUNTING LOCATIONS WITH MANUFACTURER DRAWINGS FOR PROXIMITY CABINET.
2 ALL CIRCUITS WITHIN THIS SPACE SHALL BE DEDICATED TO THIS SPACE, UNO. REFER TO E203.1 FOR CIRCUITING INFORMATION.
3 THIS DEVICE SHALL BE CONNECTED TO A CIRCUIT SERVING MULTIPLE ROOMS. REFER TO E203.1 FOR CIRCUITING INFORMATION.
4 APPROXIMATE LOCATION OF PANELBOARD ON LEVEL BELOW.



3 ENLARGED ELECTRICAL ROOM
1/4" = 1'-0"



2 ENLARGED TYPICAL ICU ROOM – LIGHTING
1/4" = 1'-0"



1 ENLARGED TYPICAL ICU ROOM – POWER
1/4" = 1'-0"

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: William Griffin
Date: May 09, 2023
2021 INTERNATIONAL CODES & 2020 NEC

RSN: 1707621
Permit #: 23-2315197 LT

Gresham Smith

GreshamSmith.com

ARCHITECT, INTERIOR DESIGN, GRAPHICS
Gresham Smith
222 2nd Avenue South, Suite 1400
Nashville, TN 37201-2308

PX : Nilanjana Snyder
PM: Rob Hamby
PA: Anna Barnes
Sr. ID: Kristen Vaughn
ID: Leanna Taylor
XD: Mike Summers

AOR: Gregory Gore

MEP&T
WSP USA
5613 DTC Parkway, Suite 500
Greenwood Village, CO 80111

MEPT PM: Benjamin Weerts
Mech: Benjamin Weerts
Plumb/Fire P: Ryan Vanderwel
Elec.: Chris Longstreet
Telecomm: Michael Carson

M/P EOR: Benjamin Weerts
Elec. EOR: Jimmy Youssef

wsp

HCA Healthcare

HCA Design & Construction
One Park Plaza, PO Box 550
Bldg. II, East 3rd Floor
Nashville, TN 37203
HCA Design Mgr.: Zach Wideman
HCA Constr. Mgr.: Marc Brisebois

General Contractors
Nabholz Construction Corporation
6640 Carothers Parkway, Suite 150
Franklin, TN 37067

COLORADO LICENSED JIMMY E. YOUSSEF 0050071 2/17/23 PROFESSIONAL ENGINEER

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA

1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

ENLARGED ELECTRICAL VIEWS

E501

PROJECT: 45990.00
DATE: 02/17/23

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

2/16/2023 1:45:36 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/MEP_459900_TMCA ICU Build-Out.rvt

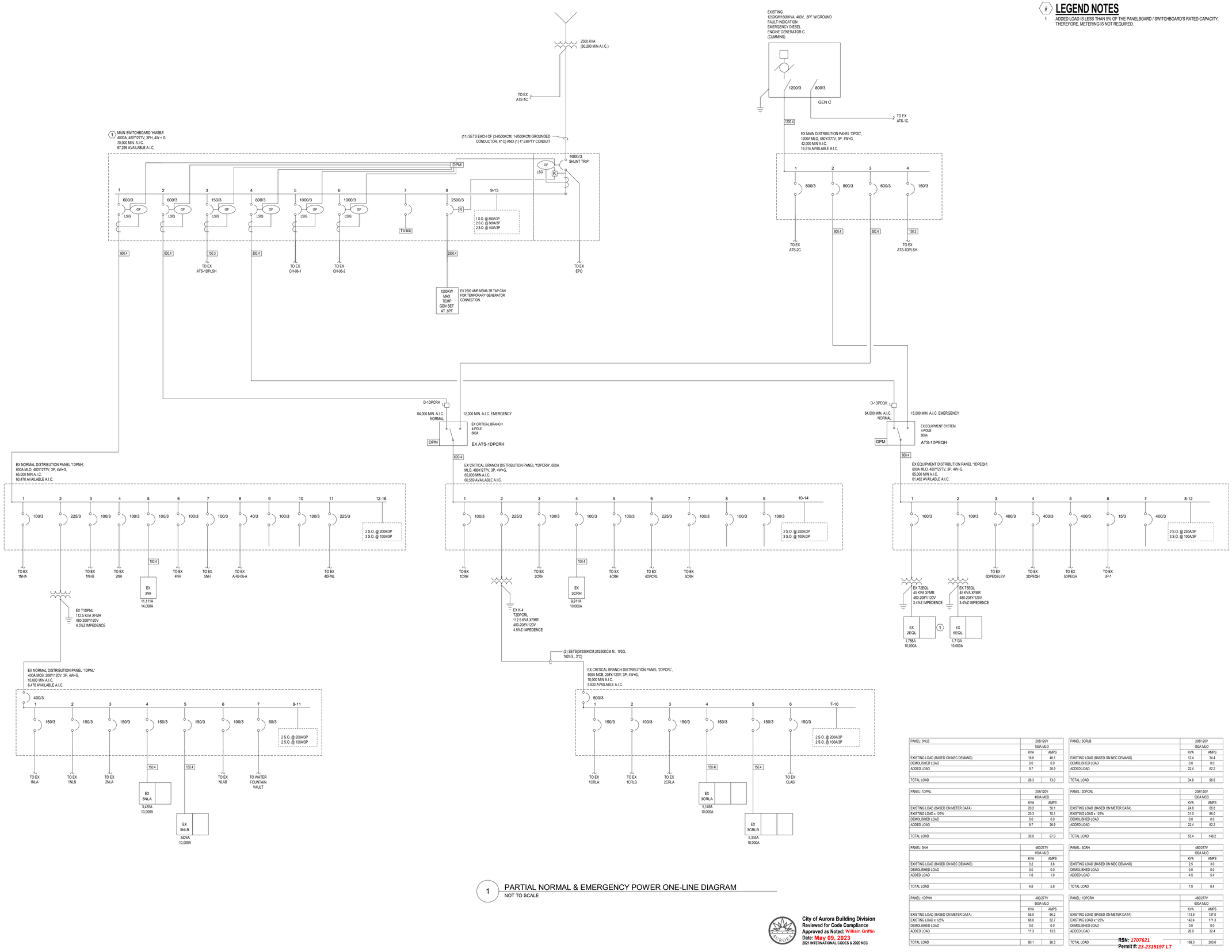
Drawn By: CL
Checked By: JY
Approved By: JY

GENERAL NOTES

A. REFER TO SHEET E000 FOR LEGENDS, NOTES, AND ABBREVIATIONS.

(#) LEGEND NOTES

1 ADDED LOAD IS LESS THAN 5% OF THE PANELBOARD / SWITCHBOARD'S RATED CAPACITY. THEREFORE, METERING IS NOT REQUIRED.



1 PARTIAL NORMAL & EMERGENCY POWER ONE-LINE DIAGRAM
NOT TO SCALE

PANEL: 3NLB	208/120V 150A MLO	
	KVA	AMPS
EXISTING LOAD (BASED ON NEC DEMAND)	16.6	46.1
DEMOLISHED LOAD	0.0	0.0
ADDED LOAD	9.7	26.9
TOTAL LOAD	26.3	73.0

PANEL: 1DPNL	208/120V 400A MCB	
	KVA	AMPS
EXISTING LOAD (BASED ON METER DATA)	20.2	56.1
EXISTING LOAD x 125%	25.3	70.1
DEMOLISHED LOAD	0.0	0.0
ADDED LOAD	9.7	26.9
TOTAL LOAD	35.0	97.0

PANEL: 3NH	480/277V 100A MLO	
	KVA	AMPS
EXISTING LOAD (BASED ON NEC DEMAND)	3.2	3.8
DEMOLISHED LOAD	0.0	0.0
ADDED LOAD	1.6	1.9
TOTAL LOAD	4.8	5.8

PANEL: 1DPNH	480/277V 600A MLO	
	KVA	AMPS
EXISTING LOAD (BASED ON METER DATA)	55.0	66.2
EXISTING LOAD x 125%	68.8	82.7
DEMOLISHED LOAD	0.0	0.0
ADDED LOAD	11.3	13.6
TOTAL LOAD	80.1	96.3

PANEL: 3CRLB	208/120V 150A MLO	
	KVA	AMPS
EXISTING LOAD (BASED ON NEC DEMAND)	12.4	34.4
DEMOLISHED LOAD	0.0	0.0
ADDED LOAD	22.4	62.2
TOTAL LOAD	34.8	96.6

PANEL: 2DPCRL	208/120V 500A MCB	
	KVA	AMPS
EXISTING LOAD (BASED ON METER DATA)	24.8	68.8
EXISTING LOAD x 125%	31.0	86.0
DEMOLISHED LOAD	0.0	0.0
ADDED LOAD	22.4	62.2
TOTAL LOAD	53.4	148.2

PANEL: 3CRH	480/277V 100A MLO	
	KVA	AMPS
EXISTING LOAD (BASED ON NEC DEMAND)	2.5	3.0
DEMOLISHED LOAD	0.0	0.0
ADDED LOAD	4.5	5.4
TOTAL LOAD	7.0	8.4

PANEL: 1DPCRH	480/277V 600A MLO	
	KVA	AMPS
EXISTING LOAD (BASED ON METER DATA)	113.9	137.0
EXISTING LOAD x 125%	142.4	171.3
DEMOLISHED LOAD	0.0	0.0
ADDED LOAD	26.9	32.4
TOTAL LOAD	169.3	203.6

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THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

ELECTRICAL ONE-LINE DIAGRAM

E601

PROJECT: 45990.00
DATE: 02/17/23

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

2/16/2023 1:45:49 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/MEP_459900_TMCA ICU Build-Out.rvt

Drawn By: CL
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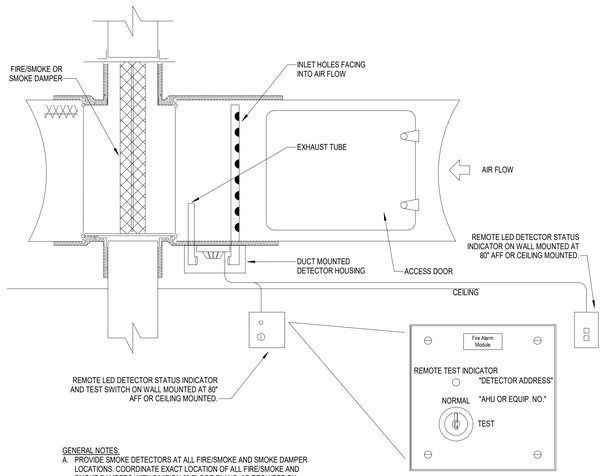
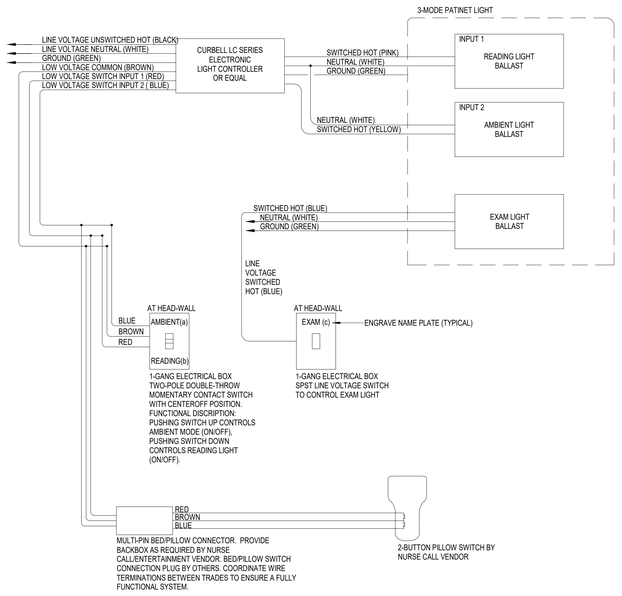
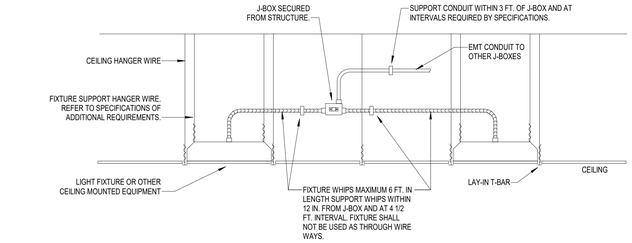


GENERAL NOTES:
A. PROVIDE SMOKE DETECTORS AT ALL FIRE/SMOKE AND SMOKE DAMPER LOCATIONS. COORDINATE EXACT LOCATION OF ALL FIRE/SMOKE AND SMOKE DAMPERS WITH DIVISION 23 FLOOR PLANS. AS REQUIRED BY LOCAL AUTHORITY HOUSING JURISDICTION.
B. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR MOUNTING, LOCATION, AND QUANTITY.

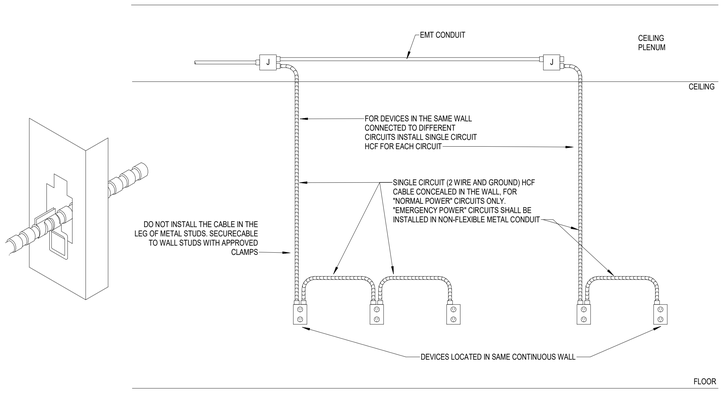
5 DUCT SMOKE DETECTOR DETAIL AT SMOKE AND FIRE/SMOKE DAMPERS
NOT TO SCALE



4 TYPICAL PATIENT MULTI-MODE LIGHTING CONTROL DIAGRAM
NOT TO SCALE

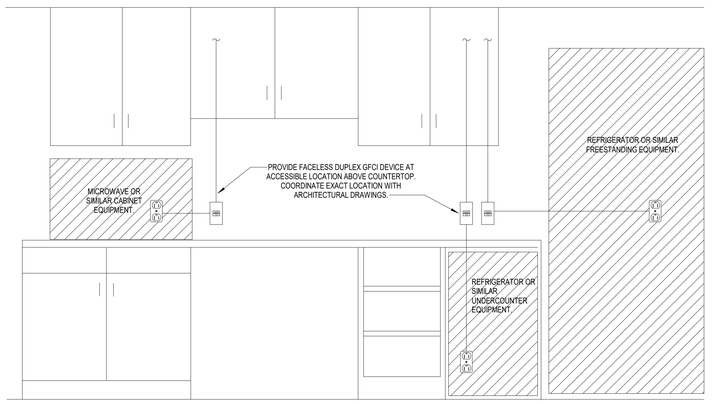


3 LAY-IN FIXTURE MOUNTING DETAIL
NOT TO SCALE



GENERAL NOTES:
A. NOT APPLICABLE FOR EMERGENCY POWER CIRCUITS
B. HFC CABLE MAY BE INSTALLED ONLY CONCEALED IN WALLS.
C. REFER TO SPECIFICATION "LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES" FOR ADDITIONAL REQUIREMENTS.

2 HEALTHCARE FACILITIES CABLE (HCF) INSTALLATION DETAIL
NOT TO SCALE



1 ACCESSIBLE GFCI DETAIL
NOT TO SCALE

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HCA Project No.: 2740000034

Revision		
No.	Date	Description

ELECTRICAL DETAILS

E701

PROJECT: 45990.00
DATE: 02/17/23

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Drawn By: CL
Checked By: JY
Approved By: JY

ELECTRICAL LUMINAIRE FIXTURE SCHEDULE

	PHYSICAL DESCRIPTION						ELECTRICAL SPECIFICATIONS								MANUFACTURER INFORMATION		
TYPE	DESCRIPTION	HOUSING	REFLECTOR	SHIELDING	FINISH	MOUNTING	COLOR TEMP.	LAMP	LUMENS	HOURS	VA	UNITS	BALLAST/DRIVER/XFRM	VOLTAGE	MANUFACTURER	CATALOG NUMBER	REMARKS
A1	2' x 4' LED EDGE-LIT FLAT PANEL FIXTURE	ALUMINUM	N/A	OPAL ACRYLIC	N/A	RECESSED GYPSUM BOARD OR LAY-IN CEILING, VERIFY CEILING TYPE BEFORE ORDERING.	4,000K	LED	5,400	60,000 @ L97	49	EACH	INTEGRAL 0-10V DIMMING DRIVER, DIM TO 1%	277 V	LITHONIA	EPANL 2X4 5400LM 80CRI 40K MIN1 MVOLT	
AA1	2' x 4' MULTI-MODE PAT TROFFER WITH SEPARATE LIGHTING CONTROLS FOR EXAM AND AMBIENT/READING LIGHTING VIA LOW VOLTAGE CONTROLLER (PILLOW SPEAKER)	STEEL	N/A	DIFFUSE HIGH-EFFICIENCY ACRYLIC LENS	LOW GLOSS WHITE POWDER COAT	RECESSED GYPSUM BOARD OR LAY-IN CEILING, VERIFY CEILING TYPE BEFORE ORDERING.	4,000K	LED	4209 AMBIENT, 10500 EXAM, 1963 READING	85,000 @ L70	191	EACH	INTEGRAL 0-10V DIMMING DRIVER, DIM TO 1%	277 V	KENALL	MPCNGX24 42L/21L/96L 40K8 40K8 DCC DV LVCD F-8024	
K2	2'-0" DECORATIVE LED VANITY FIXTURE, 180 DEGREE DISTRIBUTION	ALUMINUM	N/A	OPAL ACRYLIC	BRUSHED ALUMINUM	SURFACE MOUNT - WALL	3,500K	LED	1,900	60,000 @ L70	14	EACH	INTEGRAL 0-10V DIMMING DRIVER, DIM TO 10%	277 V	WINONA	WFW4608 24LONG LED 35K MVOLT OAE BA RFD201586	
M1	4" MEDIUM-WIDE BEAM DOWNLIGHT WITH 45 DEGREE CUTOFF, LIGHT ENGINE AND DRIVE ACCESSIBLE THROUGH THE APERTURE, SELF-FLANGED, HIGH EFFICACY.	STEEL	MEDIUM WIDE - 45* CUTOFF	N/A	SEMI-SPECULAR CLEAR REFLECTOR, MATTE WHITE TRIM	RECESSED GYPSUM BOARD OR LAY-IN CEILING, VERIFY CEILING TYPE BEFORE ORDERING.	4,000K	LED	2,000	60,000 @ L70	20	EACH	INTEGRAL 0-10V DIMMING DRIVER, DIM TO 1%	277 V	GOTHAM	EVO 40/20 4AR MWD LSS MVOLT EZ1 TRW	
M2	6" MEDIUM-WIDE BEAM DOWNLIGHT WITH 45 DEGREE CUTOFF, LIGHT ENGINE AND DRIVE ACCESSIBLE THROUGH THE APERTURE, SELF-FLANGED, HIGH EFFICACY.	STEEL	MEDIUM WIDE - 45* CUTOFF	N/A	SEMI-SPECULAR CLEAR REFLECTOR, MATTE WHITE TRIM	RECESSED GYPSUM BOARD OR LAY-IN CEILING, VERIFY CEILING TYPE BEFORE ORDERING.	3,500K	LED	3,000	60,000 @ L70	37	EACH	INTEGRAL 0-10V DIMMING DRIVER, DIM TO 1%	277 V	GOTHAM	EVO 35/30 4AR MWD LSS MVOLT EZ1 TRW	
T1	RETANGULAR LED NIGHT LIGHT	STEEL	N/A	N/A	MATTE WHITE POWDER COAT, PAINT AFTER FABRICATION	RECESSED - WALL	590NM AMBER	LED	30	60,000 @ L70	1	EACH	INTEGRAL LED DRIVER	277 V	HEALTHCARE LIGHTING	HNL610 MVOLT LEDAMB	
X2	LED DOUBLE SIDED EXIT SIGN, WHITE HOUSING, RED LETTERS, AC ONLY	THERMOPLASTIC	N/A	N/A	WHITE	SURFACE MOUNT - CEILING	RED	LED	10	100,000 @ L70	5	EACH	INTEGRAL LED DRIVER	277 V	LITHONIA	LQM S W 3 R MVOLT	

Every circuit and circuit modification shall be legibly Identified as to it's clear, evident and specific purpose or use. The identification shall include an approved degree of detail that allows each circuit to be distinguished from all others. 2020 NEC 408.4

EXIST: 2EQL — EQUIPMENT

LOCATION: ELECTRICAL ROOM 2094
MAIN BUS: 225 A
MCB: 150A
VOLTAGE: 120/208 WYE
AIC AVAILABLE: REFER TO 1-LINE
AIC RATING: 10000 A
FED FROM:
WIRES: 4W + G
ENCLOSURE: NEMA 1
BUS TYPE: COPPER
MOUNTING: SURFACE
PANEL LUGS: MCB
NUMBER OF SECTIONS: 1
NEUTRAL BUS: YES
GROUND BUS: YES
ISOLATED GROUND BUS: NO
200% NEUTRAL: NO
FEED THROUGH LUGS: NO
POLES PER SECTION: 84

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	POLES	A B C	CIRCUIT BREAKER POLES	AMPS	TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	SPARE	--	20	1		1	20	--	EXISTING LOAD	2
3	SPARE	--	20	1		1	20	--	EXISTING LOAD	4
5	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	6
7	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	8
9	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	10
11	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	12
13	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	14
15	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	16
17	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	18
19	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	20
21	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	22
23	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	24
25	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	26
27	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	28
29	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	30
31	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	32
33	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	34
35	EXISTING LOAD	--	20	1		1	20	--	SPARE	36
37	SPARE	--	20	1		1	20	--	SPARE	38
39	SPARE	--	20	1		1	20	--	SPARE	40
41	SPARE	--	20	1		1	20	--	SPARE	42
43	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	44
45	EXISTING LOAD	--	20	1		1	20	--	SPARE	46
47	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	48
49	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	50
51	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	52
53	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	54
55	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	56
57	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	58
59	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	60
61	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	62
63	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	64
65	EXISTING LOAD	--	20	1		1	20	500	* PTS - LVL 3 NURSE WORK 3-IC310	66
67	EXISTING LOAD	--	20	1		1	20	500	* VAV BOXES - LEVEL 3	68
69	SPARE	--	20	1		1	20	500	* VAV BOXES - LEVEL 3	70
71	SPARE	--	20	1		1	20	--	SPARE	72
73	SPARE	--	20	1		1	20	--	SPARE	74
75	SPARE	--	20	1		1	20	--	SPARE	76
77	SPARE	--	20	1		1	20	--	SPARE	78
79	SPARE	--	20	1		1	20	--	SPARE	80
81	SPARE	--	20	1		1	20	--	SPARE	82
83	SPARE	--	20	1		1	20	--	SPARE	84
					4 A / 4 A / 4 A					

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS	kVA	AMPS
MISC	1,500	1,500			
			EXISTING CONNECTED LOAD:	0	0
			REMOVED CONNECTED LOAD:	0	0
			ADDED CONNECTED LOAD:	1.5	4.2
			TOTAL CONNECTED LOAD:	1.5	4.2
			TOTAL ESTIMATED DEMAND:	1.5	4.2

NOTES: * INDICATES LOAD ADDED TO AND EXISTING SPARE CIRCUIT BREAKER.

EXIST: 3NH — NORMAL

LOCATION: ELECTRICAL ROOM 3062
MAIN BUS: 125 A
MCB: N/A
VOLTAGE: 480/277 WYE
AIC AVAILABLE: REFER TO 1-LINE
AIC RATING: 14000 A
FED FROM:
WIRES: 4W + G
ENCLOSURE: NEMA 1
BUS TYPE: COPPER
MOUNTING: SURFACE
PANEL LUGS: MLO
NUMBER OF SECTIONS: 1
NEUTRAL BUS: YES
GROUND BUS: YES
ISOLATED GROUND BUS: NO
200% NEUTRAL: NO
FEED THROUGH LUGS: NO
POLES PER SECTION: 42

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	POLES	A B C	CIRCUIT BREAKER POLES	AMPS	TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	EXISTING LOAD	--	20	1		1	20	--	SPARE	2
3	EXISTING LOAD	--	20	1		1	20	--	SPARE	4
5	EXISTING LOAD	--	20	1		1	20	--	SPARE	6
7	EXISTING LOAD	--	20	1		1	20	--	SPARE	8
9	* LTG - EAST ICU ROOMS 41-52	1,298	20	1		1	20	--	SPARE	10
11	SPARE	--	20	1		1	20	--	SPARE	12
13	SPARE	--	20	1		1	20	--	SPARE	14
15	SPARE	--	20	1		1	20	--	SPARE	16
17	SPARE	--	20	1		1	20	--	SPARE	18
19	SPARE	--	20	1		1	20	--	SPARE	20
21	SPARE	--	20	1		1	20	--	SPARE	22
23	SPARE	--	20	1		1	20	--	SPARE	24
25	SPARE	--	20	1		1	20	--	SPARE	26
27	SPARE	--	20	1		1	20	--	SPARE	28
29	SPARE	--	20	1		1	20	--	SPARE	30
31	SPARE	--	20	1		1	20	--	SPARE	32
33	SPARE	--	20	1		1	20	--	SPARE	34
35	SPARE	--	20	1		1	20	--	SPARE	36
37	SPARE	--	20	1		1	20	--	SPARE	38
39	SPARE	--	20	1		1	20	--	SPARE	40
41	SPARE	--	20	1		1	20	--	SPARE	42
					0 A / 5 A / 0 A					

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS	kVA	AMPS
LGHT	98	123			
LTS	1,200	1,500	EXISTING CONNECTED LOAD:	0	0
			REMOVED CONNECTED LOAD:	0	0
			ADDED CONNECTED LOAD:	1.3	1.6
			TOTAL CONNECTED LOAD:	1.3	1.6
			TOTAL ESTIMATED DEMAND:	1.6	2

NOTES: * INDICATES LOAD ADDED TO AND EXISTING SPARE CIRCUIT BREAKER.

EXIST: 3CRH — CRITICAL

LOCATION: ELECTRICAL ROOM 3062
MAIN BUS: 125 A
MCB: N/A
VOLTAGE: 480/277 WYE
AIC AVAILABLE: REFER TO 1-LINE
AIC RATING: 10000 A
FED FROM:
WIRES: 4W + G
ENCLOSURE: NEMA 1
BUS TYPE: COPPER
MOUNTING: SURFACE
PANEL LUGS: MLO
NUMBER OF SECTIONS: 1
NEUTRAL BUS: YES
GROUND BUS: YES
ISOLATED GROUND BUS: NO
200% NEUTRAL: NO
FEED THROUGH LUGS: NO
POLES PER SECTION: 42

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	POLES	A B C	CIRCUIT BREAKER POLES	AMPS	TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	EXISTING LOAD	--	20	1		1	20	--	SPARE	2
3	EXISTING LOAD	--	20	1		1	20	--	SPARE	4
5	EXISTING LOAD	--	20	1		1	20	--	SPARE	6
7	* LTG - EAST ICU ROOMS 41-52	2,964	20	1		1	20	--	SPARE	8
9	* LTG - EAST ICU CORE SPACES	655	20	1		1	20	--	SPARE	10
11	SPARE	--	20	1		1	20	--	SPARE	12
13	SPARE	--	20	1		1	20	--	SPARE	14
15	SPARE	--	20	1		1	20	--	SPARE	16
17	SPARE	--	20	1		1	20	--	SPARE	18
19	SPARE	--	20	1		1	20	--	SPARE	20
21	SPARE	--	20	1		1	20	--	SPARE	22
23	SPARE	--	20	1		1	20	--	SPARE	24
25	SPARE	--	20	1		1	20	--	SPARE	26
27	SPARE	--	20	1		1	20	--	SPARE	28
29	SPARE	--	20	1		1	20	--	SPARE	30
31	SPARE	--	20	1		1	20	--	SPARE	32
33	SPARE	--	20	1		1	20	--	SPARE	34
35	SPARE	--	20	1		1	20	--	SPARE	36
37	SPARE	--	20	1		1	20	--	SPARE	38
39	SPARE	--	20	1		1	20	--	SPARE	40
41	SPARE	--	20	1		1	20	--	SPARE	42
					11 A / 3 A / 0 A					

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS	kVA	AMPS
LGHT	655	819			
LTS	2,964	3,705	EXISTING CONNECTED LOAD:	0	0
			REMOVED CONNECTED LOAD:	0	0
			ADDED CONNECTED LOAD:	3.6	4.4
			TOTAL CONNECTED LOAD:	3.6	4.4
			TOTAL ESTIMATED DEMAND:	4.5	5.4

NOTES: * INDICATES LOAD ADDED TO AND EXISTING SPARE CIRCUIT BREAKER.

EXIST: 5EQL — EQUIPMENT

LOCATION: ELECTRICAL ROOM 5094
MAIN BUS: 225 A
MCB: 150A
VOLTAGE: 120/208 WYE
AIC AVAILABLE: REFER TO 1-LINE
AIC RATING: 10000 A
FED FROM:
WIRES: 4W + G
ENCLOSURE: NEMA 1
BUS TYPE: COPPER
MOUNTING: SURFACE
PANEL LUGS: MCB
NUMBER OF SECTIONS: 2
NEUTRAL BUS: YES
GROUND BUS: YES
ISOLATED GROUND BUS: NO
200% NEUTRAL: NO
FEED THROUGH LUGS: NO
POLES PER SECTION: 42

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	POLES	A B C	CIRCUIT BREAKER POLES	AMPS	TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	* MOTORIZED DAMPERS - GEF-06-01, 02	200	20	1		1	20	--	EXISTING LOAD	2
3	SPARE	--	20	1		1	20	--	EXISTING LOAD	4
5	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	6
7	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	8
9	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	10
11	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	12
13	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	14
15	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	16
17	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	18
19	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	20
21	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	22
23	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	24
25	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	26
27	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	28
29	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	30
31	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	32
33	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	34
35	SPARE	--	20	1		1	20	--	SPARE	36
37	SPARE	--	20	1		1	20	--	SPARE	38
39	SPARE	--	20	1		1	20	--	SPARE	40
41	SPARE	--	20	1		1	20	--	SPARE	42
43	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	44
45	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	46
47	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	48
49	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	50
51	SPARE	--	20	1		1	20	--	EXISTING LOAD	52
53	SPARE	--	20	1		1	20	--	EXISTING LOAD	54
55	SPARE	--	20	1		1	20	--	SPARE	56
57	SPARE	--	20	1		1	20	--	SPARE	58
59	SPARE	--	20	1		1	20	--	SPARE	60
61	SPARE	--	20	1		1	20	--	SPARE	62
63	SPARE	--	20	1		1	20	--	SPARE	64
65	SPARE	--	20	1		1	20	--	SPARE	66
67	SPARE	--	20	1		1	20	--	SPARE	68
69	SPARE	--	20	1		1	20	--	SPARE	70
71	SPARE	--	20	1		1	20	--	SPARE	72
73	SPARE	--	20	1		1	20	--	SPARE	74
75	SPARE	--	20	1		1	20	--	SPARE	76
77	SPARE	--	20	1		1	20	--	SPARE	78
79	SPARE	--	20	1		1	20	--	SPARE	80
81	SPARE	--	20	1		1	20	--	SPARE	82
83	SPARE	--	20	1		1	20	--	SPARE	84
					2 A / 0 A / 0 A					

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS	kVA	AMPS
MTRS	200	225			
			EXISTING CONNECTED LOAD:	0	0
			REMOVED CONNECTED LOAD:	0	0
			ADDED CONNECTED LOAD:	0.2	0.6
			TOTAL CONNECTED LOAD:	0.2	0.6
			TOTAL ESTIMATED DEMAND:	0.2	0.6

NOTES: * INDICATES LOAD ADDED TO AND EXISTING SPARE CIRCUIT BREAKER.

EXIST: 3NLB — NORMAL

LOCATION: ELECTRICAL ROOM 3062
MAIN BUS: 225 A
MCB: N/A
VOLTAGE: 120/208 WYE
AIC AVAILABLE: REFER TO 1-LINE
AIC RATING: 10000 A
FED FROM:
WIRES: 4W + G
ENCLOSURE: NEMA 1
BUS TYPE: COPPER
MOUNTING: SURFACE
PANEL LUGS: MLO
NUMBER OF SECTIONS: 2
NEUTRAL BUS: YES
GROUND BUS: YES
ISOLATED GROUND BUS: NO
200% NEUTRAL: NO
FEED THROUGH LUGS: NO
POLES PER SECTION: 42

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	POLES	A B C	CIRCUIT BREAKER POLES	AMPS	TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	2
3	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	4
5	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	6
7	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	8
9	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	10
11	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	12
13	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	14
15	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	16
17	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	18
19	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	20
21	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	22
23	EXISTING LOAD	--	20	1		1	20	720	* PLUGMOLD - EQUIP STOR 3-IC316	24
25	EXISTING LOAD	--	35	2		1	20	720	* PLUGMOLD - EQUIP STOR 3-IC316	26
27	--	--	--	--		1	20	--	SPARE	28
29	* RCPT - NORTH CHARTING	540	20	1		1	20	--	SPARE	30
31	* RCPT - SOUTH CHARTING	540	20	1		1	20	--	SPARE	32
33	* RCPT - SUPPLY STORAGE 3-IC315	1,080	20	1		1	20	--	SPARE	34
35	* RCPT - NURSE WORK 3-IC310	360	20	1		1	20	--	SPARE	36
37	* RCPT - NURSE WORK 3-IC310	360	20	1		1	20	--	SPARE	38
39	* RCPT - RT STORAGE, MEDS	540	20	1		1	20	--	SPARE	40
41	SPARE	--	20	1		1	20	--	SPARE	42
43	* HEADWALL RCPT - ICU 41	720	20	1		1	20	720	* HEADWALL RCPT - ICU 52	44
45	* RCPT - ICU 41	360	20	1		1	20	360	* RCPT - ICU 52	46
47	* HEADWALL RCPT - ICU 42	720	20	1		1	20	720	* HEADWALL RCPT - ICU 51	48
49	* RCPT - ICU 42	360	20	1		1	20	360	* RCPT - ICU 51	50
51	* HEADWALL RCPT - ICU 43	720	20	1		1	20	720	* HEADWALL RCPT - ICU 50	52
53	* RCPT - ICU 43	360	20	1		1	20	360	* RCPT - ICU 50	54
55	* HEADWALL RCPT - ICU 44	720	20	1		1	20	720	* HEADWALL RCPT - ICU 49	56
57	* RCPT - ICU 44	360	20	1		1	20	360	* RCPT - ICU 49	58
59	* HEADWALL RCPT - ICU 45	720	20	1		1	20	720	* HEADWALL RCPT - ICU 48	60
61	* RCPT - ICU 45	360	20	1		1	20	360	* RCPT - ICU 48	62
63	* HEADWALL RCPT - ICU 46	720	20	1		1	20	720	* HEADWALL RCPT - ICU 47	64
65	* RCPT - ICU 46	360	20	1		1	20	360	* RCPT - ICU 47	66
67	SPARE	--	20	1		1	20	--	SPARE	68
69	SPARE	--	20	1		1	20	--	SPARE	70
71	SPARE	--	20	1		1	20	--	SPARE	72
73	SPARE	--	20	1		1	20	--	SPARE	74
75	SPARE	--	20	1		1	20	--	SPARE	76
77	SPARE	--	20	1		1	20	--	SPARE	78
79	SPARE	--	20	1		1	20	--	SPARE	80
81	SPARE	--	20	1		1	20	--	SPARE	82
83	SPARE	--	20	1		1	20	--	SPARE	84
					50 A / 50 A / 50 A					

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS	kVA	AMPS
HSPL	12,960	5,184			
RCPT	4,860	4,860	EXISTING CONNECTED LOAD:	0	0
			REMOVED CONNECTED LOAD:	0	0
			ADDED CONNECTED LOAD:	17.8	49.5
			TOTAL CONNECTED LOAD:	17.8	49.5
			TOTAL ESTIMATED DEMAND:	10	27.9

NOTES: * INDICATES LOAD ADDED TO AND EXISTING SPARE CIRCUIT BREAKER.

EXIST: 3CRLB — CRITICAL

LOCATION: ELECTRICAL ROOM 3062
MAIN BUS: 225 A
MCB: N/A
VOLTAGE: 120/208 WYE
AIC AVAILABLE: REFER TO 1-LINE
AIC RATING: 10000 A
FED FROM:
WIRES: 4W + G
ENCLOSURE: NEMA 1
BUS TYPE: COPPER
MOUNTING: SURFACE
PANEL LUGS: MLO
NUMBER OF SECTIONS: 3
NEUTRAL BUS: YES
GROUND BUS: YES
ISOLATED GROUND BUS: NO
200% NEUTRAL: NO
FEED THROUGH LUGS: NO
POLES PER SECTION: 42

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS	POLES	A B C	CIRCUIT BREAKER POLES	AMPS	TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	2
3	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	4
5	SPARE	--	20	1		1	20	--	EXISTING LOAD	6
7	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	8
9	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	10
11	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	12
13	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	14
15	SPARE	--	20	1		1	20	--	EXISTING LOAD	16
17	SPARE	--	20	1		1	20	--	EXISTING LOAD	18
19	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	20
21	EXISTING LOAD	--	20	1		1	20	--	EXISTING LOAD	22
23	* RCPT - NORTH CHARTING DESKS, TV	720	20	1		1	20	--	EXISTING LOAD	24
25	* RCPT - SOUTH CHARTING DESKS, TV	720	20	1		1	20	--	EXISTING LOAD	26
27	* RCPT - NURSE WORK 3-IC310	540	20	1		1	20	--	EXISTING LOAD	28
29	* RCPT - NURSE WORK 3-IC310	540	20	1		1	20	--	EXISTING LOAD	30
31	* RCPT - NURSE WORK UPPER...	720	20	1		1	20	--	EXISTING LOAD	32
33	* RCPT - NURSE WORK 3-IC310	540	20	1		1	20	--	EXISTING LOAD	34
35	* RCPT - MEDS 3-IC312	900	20	1		1	20	--	EXISTING LOAD	36
37	* REF - MEDS 3-IC312	540	20	1		1	20	--	EXISTING LOAD	38
39	* ACCESS CONTROLS	200	20	1		1	20	--	EXISTING LOAD	40
41	* RCPT - SUPPLY STORAGE 3-IC315	540	20	1		1	20	--	EXISTING LOAD	42
43	* HEADWALL RCPT - ICU 41	900	20	1		1	20	--	EXISTING LOAD	44
45	* HEADWALL RCPT - ICU 41	1,080	20	1		1	20	--	EXISTING LOAD	46
47	* RCPT - ICU 41	720	20	1		1	20	--	EXISTING LOAD	48
49	* HEADWALL RCPT - ICU 42	900	20	1		1	20	900	* HEADWALL RCPT - ICU 52	50
51	* HEADWALL RCPT - ICU 42	1,080	20	1		1	20	1,080	* HEADWALL RCPT - ICU 52	52
53	* RCPT - ICU 41	720	20	1		1	20	720	* RCPT - ICU 52	54
55	* BED RCPT - ICU 41 & 42	1,440	20	1		1	20	900	* HEADWALL RCPT - ICU 51	56
57	* HEADWALL RCPT - ICU 43	900	20	1		1	20	1,080	* HEADWALL RCPT - ICU 51	58
59	* HEADWALL RCPT - ICU 43	1,080	20	1		1	20	720	* RCPT - ICU 51	60
61	* RCPT - ICU 43	720	20	1		1	20	1,440	* BED RCPT - ICU 51 & 52	62
63	* HEADWALL RCPT - ICU 44	900	20	1		1	20	900	* HEADWALL RCPT - ICU 50	64
65	* HEADWALL RCPT - ICU 44	1,080	20	1		1	20	1,080	* HEADWALL RCPT - ICU 50	66
67	* RCPT - ICU 44	720	20	1		1	20	720	* RCPT - ICU 50	68
69	* BED RCPT - ICU 43 & 44	1,440	20	1		1	20	900	* HEADWALL RCPT - ICU 49	70
71	* HEADWALL RCPT - ICU 45	900	20	1		1	20	1,080	* HEADWALL RCPT - ICU 49	72
73	* HEADWALL RCPT - ICU 45	1,080	20	1		1	20	720	* RCPT - ICU 49	74
75	* RCPT - ICU 45	720	20	1		1	20	1,440	* BED RCPT - ICU 49 & 50	76
77	* HEADWALL RCPT - ICU 46	900	20	1		1	20	900	* HEADWALL RCPT - ICU 48	78
79	* HEADWALL RCPT - ICU 46	1,080	20	1		1	20	1,080	* HEADWALL RCPT - ICU 48	80
81	* RCPT - ICU 46	720	20	1		1	20	720	* RCPT - ICU 48	82
83	* BED RCPT - ICU 45 & 46	1,440	20	1		1	20	1,440	* BED RCPT - ICU 47 & 48	84
85	* HEADWALL RCPT - ICU 47	900	20	1		1	20	--	SPARE	86
87	* HEADWALL RCPT - ICU 47	1,080	20	1		1	20	--	SPARE	88
89	* RCPT - ICU 47	720	20	1		1	20	--	SPARE	90
91	SPARE	--	20	1		1	20	--	SPARE	92
93	SPARE	--	20	1		1	20	--	SPARE	94
95	SPARE	--	20	1		1	20	--	SPARE	96
97	SPARE	--	20	1		1	20	--	SPARE	98
99	SPARE	--	20	1		1	20	--	SPARE	100
101	SPARE	--	20	1		1	20	--	SPARE	102
103	SPARE	--	20	1		1	20	--	SPARE	104
105	SPARE	--	20	1		1	20	--	SPARE	106
107	SPARE	--	20	1		1	20	--	SPARE	108
109	SPARE	--	20	1		1	20	--	SPARE	110
111	SPARE	--	20	1		1	20	--	SPARE	112
113	SPARE	--	20	1		1	20	--	SPARE	114
115	SPARE	--	20	1		1	20	--	SPARE	116
117	SPARE	--	20	1		1	20	--	SPARE	118
119	SPARE	--	20	1		1	20	--	SPARE	120
121	SPARE	--	20	1		1	20	--	SPARE	122
123	SPARE	--	20	1		1	20	--	SPARE	124
125	SPARE	--	20	1		1	20	--	SPARE	126
					129 A / 128 A / 135 A					

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS	kVA	AMPS
HSPL	41,040	16,416			
MISC	740	740	EXISTING CONNECTED LOAD:	0	0
RCPT	5,220	5,220	REMOVED CONNECTED LOAD:	0	0
			ADDED CONNECTED LOAD:	47	130.5
			TOTAL CONNECTED LOAD:	47	130.5
			TOTAL ESTIMATED DEMAND:	22.4	62.1

NOTES: * INDICATES LOAD ADDED TO AND EXISTING SPARE CIRCUIT BREAKER.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: William Griffin
Date: May 09, 2023
2021 INTERNATIONAL CODES & 2020 NEC

RSN: 1707621
Permit #: 23-2315197 LT

Gresham Smith
GreshamSmith.com

ARCHITECT, INTERIOR DESIGN, GRAPHICS
Gresham Smith
222 2nd Avenue South, Suite 1400
Nashville, TN 37201-2308

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PM: Rob Hamby
PA: Anna Barnes
Sr. ID: Kristen Vaughn
ID: Leanna Taylor
XD: Mike Summers

AOR: Gregory Gore

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WSP USA
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Greenwood Village, CO 80111

MEPT PM: Benjamin Weerts
Mech: Benjamin Weerts
Plumb/Fire P: Ryan Vanderwel
Elec.: Chris Longstreet
Telecomm: Michael Carson

M/P EOR: Benjamin Weerts
Elec. EOR: Jimmy Youssef

HCA Healthcare
HCA Design & Construction
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Bldg. II, East 3rd Floor
Nashville, TN 37203
HCA Design Mgr.: Zach Wideman
HCA Constr. Mgr.: Marc Brisebois

General Contractors
Nabholz Construction Corporation
6640 Carothers Parkway, Suite 150
Franklin, TN 37067

COLORADO LICENSED JIMMY E. YOUSSEF 0050071 2/17/23 PROFESSIONAL ENGINEER

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

ELECTRICAL SCHEDULES

E801

PROJECT: 45990.00
DATE: 02/17/23

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

2/16/2023 1:46:11 PM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/MEP_459900_TMCA ICU Build-Out.rvt

This sheet of drawings has not been reviewed for code compliance.

Drawn By: MC
Checked By: JY
Approved By: Approver

TECHNOLOGY GENERAL NOTES:

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING THEIR PROPOSAL AND BECOME FAMILIAR WITH THE CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED, AND CORRELATE THEIR SITE OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. INCONSISTENCIES DISCOVERED SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER AT ONCE, BEFORE SUBMITTAL OF BID PROPOSAL.
2. ALL COMMUNICATIONS PRODUCTS AND INSTALLATIONS SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES. REFER TO MANUFACTURER'S SPECIFICATIONS FOR MATERIALS AND METHODS FOR COMMUNICATIONS CONSTRUCTION.
3. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, PAY ALL FEES, AND COMPLY WITH ALL NATIONAL, STATE, AND MUNICIPAL LAWS, CODES, AND ORDINANCES RELATING TO BUILDING AND PUBLIC SAFETY.
4. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED FOR A COMPLETE WORKING AND COORDINATED SYSTEM.
5. UNLESS OTHERWISE NOTED ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND U.L. LISTED OR LABELED. EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND LISTINGS OR LABELING REQUIREMENTS AND RESTRICTIONS. PROVIDE SUBMITTAL DATA AS DEPICTED IN THE COMMUNICATIONS SPECIFICATIONS.
6. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL OF ALL COMMUNICATIONS MATERIALS PROPOSED TO BE PROVIDED UNDER THIS CONTRACT. ANY DEVIATIONS FROM ITEMS SPECIFIED SHALL BE CLEARLY IDENTIFIED AND APPROVED. NO WORK IS AUTHORIZED WITHOUT SHOP DRAWINGS REVIEWED BY ENGINEER.
7. REFER TO AND COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES AND EQUIPMENT.
8. REFER TO AND COORDINATE WITH DIVISION 23 AND 26 FOR THE LOCATION OF ALL ITEMS LOCATED IN THE CEILING INCLUDING, BUT NOT LIMITED TO SUPPLY-AIR DIFFUSERS, RETURN-AIR DIFFUSERS AND FIRE SPRINKLER HEADS.
9. ALL PENETRATIONS THROUGH FIRE RATED WALLS OR PARTITIONS SHALL BE MADE IN ACCORDANCE WITH U.L. 483 "FIRE RESISTANCE DIRECTORY". PENETRATIONS SHALL BE SLEEVED AND SEALED WITH A UL APPROVED FIRE RATED SEALANT. REFER TO ARCHITECTURAL LIFE SAFETY PLANS FOR FIRE RATED WALL LOCATIONS.
10. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL OUTAGES WITH OWNER'S REPRESENTATIVE.
11. CONTRACTOR SHALL WARRANTY WORK FOR ONE (1) YEAR FROM THE COMPLETION OF THE PROJECT AND PROVIDE OWNER WITH AS-BUILT DRAWINGS.
12. SPACE ALLOCATIONS FOR MATERIALS, EQUIPMENT AND DEVICES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT AND/OR DEVICES OF A PARTICULAR MANUFACTURER WHETHER INDICATED OR NOT. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND DEVICES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE.
13. ALL EMPTY CONDUIT SYSTEMS SHALL CONTAIN A PULL WIRE FOR FUTURE PULLING OF CONDUCTORS.
14. DEVICES LOCATED WITHIN MECHANICAL/ELECTRICAL SPACES AND/OR CENTRAL UTILITY PLANT SHALL BE INSTALLED IN CONDUIT PATHWAYS FROM DEVICE LOCATION TO ACCESSIBLE CEILING SPACE WITHIN THE NEAREST CORRIDOR. CONDUIT PATHWAY MAY BE COMBINED INTO A JUNCTION POINT AND ROUTED THROUGH LARGER CONDUIT WHERE APPLICABLE.
15. COMMUNICATIONS/LOW-VOLTAGE/SECURITY CABLING SHALL BE RATED FOR THE ENVIRONMENT THAT IT IS TO BE INSTALLED (CMP - PLENUM RATED SPACES, CMR - NON-PLENUM RATED SPACES, OUTDOOR RATED CABLING, ETC.)
16. ALL CONDUIT STUBS AND/OR EMT SLEEVES SHALL BE FITTED WITH PLASTIC PROTECTIVE BUSHINGS. BUSHINGS SHALL BE RATED FOR THE ENVIRONMENT THEY ARE TO BE INSTALLED.
17. ALL COMMUNICATIONS/LOW-VOLTAGE/SECURITY CONDUITS SIZED 2" OR LARGER SHALL HAVE A MINIMUM BEND RADIUS OF 10:1 OF THE INSIDE DIAMETER FOR ALL ELBOWS. ALL CONDUIT 2" OR SMALLER SHALL HAVE A MINIMUM BEND RADIUS OF 6:1 OF THE INSIDE DIAMETER FOR ALL ELBOWS.
18. CONDUITS 2" AND SMALLER GENERALLY DO NOT APPEAR ON DRAWINGS EXCEPT FOR SPECIFIC CONDITIONS, BUT ARE REQUIRED. REFER TO CONTRACT DOCUMENTS (INCLUDING SCHEDULES, SHEET NOTES, DETAILS AND SPECIFCATIONS) FOR ADDITIONAL INFORMATION.
19. SPACE ALLOCATIONS FOR MATERIALS, EQUIPMENT AND DEVICES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT OR DEVICES OF A PARTICULAR MANUFACTURER, WHETHER INDICATED OR NOT. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND DEVICES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE.

PHYSIOLOGICAL MONITORING SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MTG. HEIGHT UNO (NOTE 1)
PM (N)	PHYSIOLOGICAL MONITORING DATA OUTLET, N=CABLE QUANTITY. PROVIDE DOUBLE GANG BACK BOX, 2 1/2" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE. PM1 = 1 PHYSIOLOGICAL MONITORING DATA CABLES PM2 = 2 PHYSIOLOGICAL MONITORING DATA CABLES PM3 = 3 PHYSIOLOGICAL MONITORING DATA CABLES PM4 = 4 PHYSIOLOGICAL MONITORING DATA CABLES	18" AFF
FM (N)	FETAL MONITORING DATA OUTLET, N=CABLE QUANTITY. PROVIDE DOUBLE GANG BACK BOX, 2 1/2" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE. FM1 = 1 FETAL MONITORING DATA CABLES FM2 = 2 FETAL MONITORING DATA CABLES FM3 = 3 FETAL MONITORING DATA CABLES FM4 = 4 FETAL MONITORING DATA CABLES	18" AFF
N TELE	WIRELESS TELEMETRY MONITORING OUTLET, N=CABLE QUANTITY. OUTLET TO BE LOCATED ABOVE ACCESSIBLE CEILING SPACE. CABLE TO LOCATION SHOWN ON THE FLOOR PLANS AND LEAVE A MINIMUM 25 FEET COILED AT THE OUTLET LOCATION. ROUTE OTHER END TO NEAREST TELEMETRY BACKBOARD LOCATION, LEAVING A MINIMUM 15 FEET COILED UP. N TELE = 1 TELEMETRY CABLE 2 TELE = 2 TELEMETRY CABLE	ABOVE ACCESSIBLE CEILING

MONITORING NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES.
2. COORDINATE OUTLET LOCATION WITH MONITOR MOUNTING BRACKET.
3. 48" AFF INDICATES TO TOP OF DEVICE;
   18" AFF INDICATES TO CENTER OF DEVICE;
   60" AFF INDICATES TO BOTTOM OF DEVICE;
   80" AFF INDICATES TO BOTTOM OF DEVICE;
   ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

PUBLIC ADDRESS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION		MTG. HEIGHT UNO (NOTE 1)
S M Z	PA SPEAKER Z = ZONE NUMBER M = MOUNT	M: C = LAY IN CEILING PD = PENDANT F = CEILING FLUSH (HARD LID) W = WALL P = POLE L = LANDSCAPE	NA
H M Z	PA SPEAKER - HORN TYPE Z = ZONE NUMBER M = MOUNT	M: W = WALL P = POLE L = LANDSCAPE	NA
V Z	PA VOLUME CONTROL - DOUBLE GANG BACKBOX, 2 1/2" DEEP, WITH SINGLE GANG DEVICE COVER, 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE. Z = ZONE NUMBER		48" AFF
AMP M Z	PA AMPLIFIER Z = ZONE NUMBER M = MOUNT	M: W = WALL SHELF R = RACK/CABINET	NA
PAHE M Z	PA HEADEND - MIXER, AUDIO INPUTS AND CONTROLS Z = ZONE NUMBER M = MOUNT	M: W = WALL SHELF R = RACK/CABINET	NA

PUBLIC ADDRESS NOTES:
1. COORDINATE WITH ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES.
2. 48" AFF INDICATES TO TOP OF DEVICE;
   18" AFF INDICATES TO CENTER OF DEVICE;
   60" AFF INDICATES TO BOTTOM OF DEVICE;
   80" AFF INDICATES TO BOTTOM OF DEVICE;
   ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

INTERCOM LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MTG. HEIGHT UNO (NOTE 1)
IC 1	INTERCOM MASTER CONTROL STATION - DESK MOUNTED. DOUBLE GANG BOX, 4" X 4", WITH 2" X 4" DEVICE COVER, 1" CONDUIT STUBBED ABOVE CEILING.	18" AFF
IC 2	INTERCOM REMOTE MONITORING LOCATION - DESK MOUNTED. DOUBLE GANG BACKBOX, 4" X 4", WITH 2" X 4" DEVICE COVER, 1" CONDUIT STUBBED ABOVE CEILING.	18" AFF
IC 3	INTERCOM DOOR STATION - WALL MOUNTED. DOUBLE GANG BACKBOX, 4" X 4", WITH 2" X 4" DEVICE COVER, 1" CONDUIT STUBBED ABOVE CEILING.	48" AFF
IC 4	INTERCOM DOOR STATION W/ CARD READER - FLUSH MOUNTED. PROPRIETARY BACK BOX, 1" CONDUIT STUBBED ABOVE CEILING.	48" AFF

INTERCOM CABLE SCHEDULE

SYMBOL	DESCRIPTION	PART#
"IC"	2 CONDUCTOR #18 AWG	6300UE
"IC-N"	CATEGORY CABLE	REFER TO DIV. 271500

INTERCOM NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.
2. CABLING CONTRACTOR TO PROVIDE AND INSTALL ALL INTERCOM CABLES AS SHOWN ON THE DRAWINGS; LEAVING A MINIMUM 2 FEET COILED AT EACH LOCATION.
3. REFER TO RESPONSIBILITY MATRIX SCHEDULE FOR OWNERSHIP OF RESPONSIBILITIES OF THE INTERCOM SYSTEM.

NURSE CALL SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	BACK BOX	MTG. HEIGHT UNO (NOTE 1)
D	DOME LIGHT. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF DOME LIGHT. MAY BE CEILING MOUNTED OR WALL MOUNTED.	DD	CEILING OR WALL MOUNT
Z	ZONE DOME LIGHT. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF DOME LIGHT. MAY BE CEILING MOUNTED OR WALL MOUNTED.	DD	CEILING OR WALL MOUNT
SP	SINGLE PATIENT STATION (EQUIPPED WITH STAFF ASSIST/CODE BLUE)	CC	48" AFF
EP	EMERGENCY PULL STATION	BB	48" AFF
PA	EMERGENCY PULL STATION WITH AUDIO	BB	48" AFF
2B	DUAL PUSH BUTTON STATION - STAFF ASSIST & CODE BLUE	BB	48" AFF
2P	DUAL PUSH BUTTON STATION - STAFF ASSIST & CODE PINK	BB	48" AFF
CB	SINGLE PUSH BUTTON STATION - CODE BLUE	BB	48" AFF
CP	SINGLE PUSH BUTTON STATION - CODE PINK	BB	48" AFF
SA	SINGLE PUSH BUTTON STATION - STAFF ASSIST	BB	48" AFF
D	DUTY STATION	CC	48" AFF
2J	2 JACK AUXILIARY ALARM INPUT STATION	BB	48" AFF
EQ	EQUIPMENT JACK RECEPTACLE	BB	48" AFF
ST	STAFF TERMINAL	CC	48" AFF
RK	37 PIN BED CONNECTOR OUTLET	BB (NOTE#2)	18" AFF
SS	STAFF STATION	CC	48" AFF
BM	BED/ROOM MANAGEMENT STATION	BB	48" AFF
DC	DOMELESS CONTROLLER	EE	ABOVE ACCESSIBLE CEILING
NM	NURSE CALL CONSOLE	AA	NOTE#3
RCB	ROOM CONTROL BOARD	FF	ABOVE ACCESSIBLE CEILING
TVI	WALL MOUNTED NURSE CALL TO TV CONTROL OUTLET	BB	NA
TVC	NURSE CALL TV CONTROL OUTLET	NOTE#4	NA
NCT	NURSE CALL TERMINAL CABINET. WALL MOUNTED	NA	NA
NSCSER	NURSE CALL HEAD END SERVER. REFER TO CONTRACT DOCUMENTS FOR MOUNTING LOCATION (RACK/WALL MOUNTED)	NA	NA

NURSE CALL BACK BOX SCHEDULE

SYMBOL	DESCRIPTION
AA	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
BB	DOUBLE GANG BACK BOX, 3 1/2" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
CC	3 DEVICE BACK BOX, NON GANGABLE, 3 1/2" DEEP AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
DD	DOUBLE GANG BACK BOX, 3 1/2" DEEP, AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE. CONFIRM WITH SYSTEM VENDOR FOR DEVICE RING SIZE FOR THIS DEVICE.
EE	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH BLANK COVER PLATE AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
FF	12" X 12" X 4" STEEL BOX ENCLOSURE MOUNTED ABOVE ACCESSIBLE CEILING SPACE. ENCLOSURE PROVIDED BY NURSE CALL VENDOR.

NURSE CALL CABLE SCHEDULE

SYMBOL	DESCRIPTION	MODEL # (BELDEN)
A	4 PAIR CAT 5/5E 24AWG - NURSE CALL DATA CABLE	1583A
B	2 CONDUCTOR 12AWG - NURSE CALL POWER	5000UE
C	3 CONDUCTOR 22AWG, TV AND LOW VOLTAGE LIGHT RELAY	5501UE
F	6 STRAND MULTIMODE FIBER; ARMORED	B9B240

NURSE CALL NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.
2. STUB UP 3/4" CONDUIT INTO SIDE OF THE PATIENT STATION BACKBOX WITHIN THE SAME ROOM. PATHWAY SHOULD NOT EXCEED 8 FEET TOTAL LENGTH.
3. NURSE CONSOLE RECEPTACLE SHALL BE MOUNTED AT 18" AFF, UNLESS OTHERWISE NOTED, AND THE ACTUAL DEVICE SHALL RESIDE ON THE COUNTERTOP.
4. TV CONTROL OUTLET SHALL BE MOUNTED IN SAME BACK BOX AS THE TV COAX/DATA CABLE.

ACCESS CONTROL SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION		BACK BOX	MTG. HEIGHT UNO (NOTE 1)
	MOUNT	TECHNOLOGY		CEILING OR WALL MOUNT
M T EXAMPLE	C - CEILING D - DESK F - FLUSH H - HIDDEN M - MULLION P - POLE R - RACK S - SURFACE T - TURNSTILE W - WALL	- SPECIFIC TO DEVICE - CAN BE MULTIPLE EX- EXISTING ETR- EXISTING TO REMAIN	XX	
CR	**CARD ACCESS READER** S - SMART CARD F - ELEVATOR FLOOR CALL H - ELEVATOR HALL CALL I - iCLASS P - PROXIMITY M - MAGSTRIPE W - WIEGAND		D1	48" AFF
BR M T	**BIOMETRIC ACCESS READER** F - FINGERPRINT H - HAND GEOMETRY I - IRIS R - RETINA V - VOICE		D1	48" AFF
CK T	**CARD ACCESS READER W/ KEYPAD** B - BARCODE S - SMART CARD F - ELEVATOR FLOOR CALL H - ELEVATOR HALL CALL I - iCLASS P - PROXIMITY M - MAGSTRIPE W - WIEGAND DUAL PUSH BUTTON		D1	48" AFF
KP M T	**KEYPAD** D - DRY CONTACT W - WIEGAND		D1	48" AFF
PB T	**PUSH BUTTON** D- DIRECT POWER DROP X - REQUEST TO EXIT		D2	48" AFF
RR M T	**REMOTE RELEASE BUTTON** U - UNDER COUNTER W- WALL		D2	18" AFF
ACP	**ACCESS CONTROL PANEL**		N/A	(NOTE#4)
DC	**DOOR CONTACT**		N/A	AS REQD.
PB	**PANIC BUTTON** H- HARDWIRED W- WIRELESS		N/A	AS REQD.
KS M T	**KEYED SWITCH** A - ALTERNATE ACTION IC - INTERCHANGEABLE CORE K - KEYED ALIKE L- LATCHING LD - LED M - MOMENTARY		S2	48" AFF
LPS	**LOCK POWER SUPPLY**		N/A	AS REQD.
PP / WP	**PUSH PAD/ WAVE PLATE** - DOOR OPENING ACTUATOR (NOTE #3)		S2	48" AFF

ACCESS CONTROL NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES.
2. REFER TO FLOOR PLANS FOR DEVICE LOCATION LAYOUT.
3. PUSH PADS/WAVE PLATES ARE SHOWN FOR COORDINATION OF BACK BOX ROUGH IN PURPOSES ONLY. REFER TO DIV 08 SPECIFICATIONS FOR ADDITIONAL HARDWARE INFORMATION.
4. REFER TO ENLARGED COMM ROOM LAYOUT FOR EXACT PLACEMENT OF ACCESS CONTROL EQUIPMENT.

ACCESS CONTROL BACK BOX SCHEDULE

SYMBOL	DESCRIPTION
D1	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
D2	DOUBLE GANG BACK BOX, 3 1/2" DEEP, WITH SINGLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
D3	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH DOUBLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
D4	DOUBLE GANG BACK BOX, 3 1/2" DEEP, WITH DOUBLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
P1	PROPRIETARY BACK BOX WITH 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE. REFER TO MANUFACTURER SPECIFICATIONS FOR DEVICE BACK BOX REQUIREMENTS AND PART #S.

VIDEO SURVEILLANCE SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION		BACK BOX	MTG. HEIGHT UNO (NOTE 1)
	M=MOUNTING TYPE	T=TECHNOLOGY (CAMERA TYPE)		CEILING OR WALL MOUNT
ZZZ M T EXAMPLE	C - CEILING D - DESK F - FLUSH M - MULLION P - POLE PA- PARAPET PE - PENDANT R - RACK S - SURFACE T - TURNSTILE W - WALL CO- CORNER	- SPECIFIC TO DEVICE - CAN BE MULTIPLE - SHOWN BELOW FOR EACH CAMERA ZZZ = FIELD OF VIEW	XX	
M T	**STATIONARY CAMERA** E - ENVIRONMENTAL C - COVERT P - POE D - DOME V - VANDAL RESISTANT F - FISHEYE			AS REQD.
M T	**PAN/TILT/ZOOM CAMERA** B - BOX E - ENVIRONMENTAL P - POE D - DOME V - VANDAL RESISTANT			AS REQD.
M T	**2 SENSOR CAMERA** E - ENVIRONMENTAL P - POE D - DOME V - VANDAL RESISTANT			
M T	**3 SENSOR CAMERA** E - ENVIRONMENTAL P - POE D - DOME V - VANDAL RESISTANT			AS REQD.
M T	**4 SENSOR CAMERA** E - ENVIRONMENTAL P - POE D - DOME V - VANDAL RESISTANT			AS REQD.
M T	**MONITOR** D - DESKTOP S - SWING ARM R - RECESSED T - WITH TILT		D2	AS REQD.
NVR M T	**VIDEO RECORDER** D - DVR N - NVR			AS REQD.
SW M T	**SWITCH** K -KEY SWITCH T - TOGGLE P - PUSH BUTTON		D2	AS REQD.
PS M T	**POWER SUPPLY** A - 12VDC P - POE B - 24VAC			AS REQD.

VIDEO SURVEILLANCE NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES.
2. REFER TO FLOOR PLANS FOR DEVICE LOCATION LAYOUT.
3. REFER TO ENLARGED COMM ROOM LAYOUT AND TYPICAL EQUIPMENT RACK LAYOUTS FOR EXACT PLACEMENT OF HEADEND EQUIPMENT.

GENERAL SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
CT	PRIMARY CABLE PATH. SEE DETAILS FOR MORE INFORMATION. CABLE SHOWN FOR COORDINATION PURPOSES ONLY. PATH SHALL BE FIELD VERIFIED BY INSTALLATION CONTRACTOR.
	2", UNLESS NOTED OTHERWISE, PRE-MANUFACTURED SLEEVE FIRE RATED PATHWAY DEVICE THROUGH RATED WALL, EMT SLEEVE THROUGH NON-RATED WALL.
	VERTICAL CORE AND SLEEVE THROUGH FLOOR. PROVIDE EMT SLEEVE, EQUIPPED WITH PLASTIC BUSHING ON BOTH ENDS. REFER TO FLOOR PLANS FOR SIZING. RATING SHALL MATCH FLOOR BEING PENETRATED. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR RATINGS.
	2 POST FREESTANDING EQUIPMENT RACK. SIZE AND LOCATION AS SHOWN ON DRAWINGS AND SPECS.
	4 POST FREESTANDING EQUIPMENT RACK. SIZE AND LOCATION AS SHOWN ON DRAWINGS AND SPECS.
	BASKET TRAY SIZE AND LOCATION AS SHOWN ON DRAWINGS AND SPECS.
	TELECOMMUNICATIONS GROUND BUSS BAR (TGB) - 1/4" X 4" X 12"; CPI PART # 40153-012 OR EQUAL

COMMUNICATIONS ABBREVIATIONS

AFC	ABOVE FINISHED COUNTER	MON	MONITOR
AFF	ABOVE FINISHED FLOOR	PACS	PACS VIEWING STATION
BFC	BELOW FINISHED CEILING	PM	PHYSIOLOGICAL MONITORING
CAB	CABINET	PROX	"PROXIMITY" CABINET (IF APPLICABLE)
CCI	"CCI" CABINET (IF APPLICABLE)	WAP	WIRELESS ACCESS POINT
CPU	COMPUTER	RTLS	REAL-TIME LOCATING SYSTEM
CT	CABLE TRAY	TC	TIME CLOCK (EMPLOYEE)
EWB	(FUTURE)ELECTRONIC WHITE BOARD	TELE	TELEMETRY SYSTEM
EX	EXISTING	TV	TELEVISION
FM	FETAL MONITOR	W	WALL PHONE
MED	MEDICATION	WP	WEATHERPROOF

VOICE/DATA SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MTG. HEIGHT U.N.O. (NOTE 1)
N OR N	VOICE AND/OR DATA OUTLET, N=CABLE QUANTITY, PROVIDE DOUBLE GANG DEVICE BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE. = EMPTY BACK BOX 1 = 1 DATA CABLE 2 = 2 DATA CABLE 3 = 3 DATA CABLE 4 = 4 DATA CABLE 1 = 1 DATA CABLE 2V = 2 VOICE CABLES 2 = 1 VOICE/1 DATA CABLES 3 = 1 VOICE/2 DATA CABLES 4 = 2 VOICE/2 DATA CABLES 1V,3D = 1 VOICE/3 DATA CABLES 3V,1D = 3 VOICE/1 DATA CABLES	18" AFF
W OR W	VOICE AND/OR DATA OUTLET, WALL PHONE STYLE FACEPLATE, 1 VOICE/DATA CABLE. PROVIDE DOUBLE GANG BACK, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.	48" AFF
W OR W	VOICE AND/OR DATA OUTLET, WALL PHONE STYLE FACEPLATE, 1 VOICE/DATA CABLE, MOUNTED ABOVE COUNTER. PROVIDE DOUBLE GANG BACK, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.	42" AFF
N OR N	VOICE AND/OR DATA OUTLET, N=CABLE QUANTITY, MOUNTED ABOVE THE COUNTERTOP. PROVIDE DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.	42" AFF
N OR N	FLOOR MOUNTED VOICE AND/OR DATA OUTLET, N=CABLE QUANTITY. REFER TO ELECTRICAL (E) SHEETS FOR ROUGH IN REQUIREMENTS.	FLOOR
N OR N	CEILING MOUNTED VOICE AND/OR DATA OUTLET, N=CABLE QUANTITY. OUTLET TO BE HOUSED ABOVE ACCESSIBLE CEILING. CABLE TO LOCATION SHOWN ON THE FLOOR PLANS AND LEAVE A MINIMUM 50 FEET COILED AT THE LOCATION.	ABOVE ACCESSIBLE CEILING
WAP N	DATA OUTLET FOR WIRELESS ACCESS POINT DEVICE, N=CABLE QUANTITY. OUTLET TO BE HOUSED ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE. CABLE TO LOCATION SHOWN ON THE FLOOR PLANS WITH A MINIMUM 25 FEET COILED AT THE DEVICE LOCATION. CONTRACTOR SHALL RELOCATE OUTLETS AND MOUNT DEVICE PER OWNER'S IT WIRELESS SURVEY.	ABOVE ACCESSIBLE CEILING

VOICE/DATA NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.
2. 48" AFF INDICATES TO TOP OF DEVICE;
   18" AFF INDICATES TO CENTER OF DEVICE;
   60" AFF INDICATES TO BOTTOM OF DEVICE;
   80" AFF INDICATES TO BOTTOM OF DEVICE;
   ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

TELEVISION SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	BACK BOX	MTG. HEIGHT UNO (NOTE 1)
TV1	TELEVISION OUTLET - ONE RG6 COAX CABLE	D	NOTE 2
TV2	TELEVISION OUTLET - ONE DATA CABLE	D	NOTE 2
TV3	TELEVISION OUTLET - ONE RG6 COAX CABLE AND ONE DATA CABLE	D	NOTE 2
TV4	TELEVISION OUTLET - ONE RG6 COAX CABLE AND TWO DATA CABLES	E	NOTE 2
TVJ	TV JUNCTION BOARD. PROVIDE A MINIMUM 4' X 4' OF CLEAR WALL BACKBOARD SPACE FOR CATV EQUIPMENT AND CONNECTIONS. REFER TO CONTRACT DRAWINGS FOR EXACT LOCATION OF TVJ.	N/A	N/A
TVHE	TELEVISION HEADEND	N/A	N/A

TELEVISION ROUGH IN LEGEND

SYMBOL	DESCRIPTION
A	DOUBLE GANG BACK BOX, 2 1/2" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
B	DOUBLE GANG BACK BOX, 2 1/2" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
C	TRIPLE GANG BACK BOX, 2 1/2" DEEP AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE. POWER AND LOW VOLTAGE OUTLET SHALL SHARE SAME BACK BOX. CONTRACTOR TO PROVIDE VOLTAGE PARTITION WITHIN BACK BOX.
D	ARLINGTON RECESSED AV BOX (PART # TVBS507). PROVIDE (1) 1" CONDUIT PATHWAY STUBBED TO ABOVE ACCESSIBLE CEILING SPACE.
E	ARLINGTON RECESSED AV BOX (PART # TVBS613). PROVIDE (1) 1" CONDUIT PATHWAY STUBBED TO ABOVE ACCESSIBLE CEILING SPACE.

TELEVISION NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES.
2. COORDINATE OUTLET LOCATION WITH TV MOUNTING BRACKET.
3. 48" AFF INDICATES TO TOP OF DEVICE;
   18" AFF INDICATES TO CENTER OF DEVICE;
   60" AFF INDICATES TO BOTTOM OF DEVICE;
   80" AFF INDICATES TO BOTTOM OF DEVICE;
   ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

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THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

TECHNOLOGY LEGENDS, NOTES, AND ABBREVIATIONS

PROJECT: 45990.00
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T000

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

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This sheet of drawings has not been reviewed for code compliance.

Drawn By: Author
Checked By: Checker
Approved By: Approver

1 THIRD FLOOR - COMMUNICATION DEMOLITION PLAN
1/8" = 1'-0" 0' 4' 8' 16' 24'

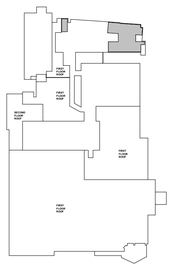
LEGEND NOTES

1. DEVICES AND ASSOCIATED CONDUIT, BACKBOXES AND CABLING WITHIN THIS AREA SHALL BE DEMOLISHED TO POINT OF ORIGIN. CABLING ROUTING THROUGH THIS AREA, THAT IS NOT TO BE DEMOLISHED, SHALL BE PROTECTED IN PLACE. CONTRACTOR SHALL PROVIDE J-HOOK STYLE SUPPORTS FOR EXISITNG CABLING THROUGHOUT PROJECT SCOPE AREA. J-HOOKS SHALL BE INSTALLED PER DIV. 27 SPECIFICATION REQUIREMENTS.
2. LOCATION OF EXISTING COMMUNICATIONS IDF/TDR ROOM. ALL WORK WITHIN THIS ROOM SHALL BE CLOSELY COORDINATED WITH OWNER'S IT PERSONNEL PRIOR TO DEMO PHASE. ALL DEMOLISHED CABLING SHALL BE REMOVED FROM DEVICE TO PANEL LOCATION IN FULL. NO ABANDONED CABLING SHALL REMAIN.

GENERAL NOTES:

A. ALL EXISTING DEVICES MAY NOT BE SHOWN ON PLAN. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH ARCHITECTURAL PLANS AND OTHER TRADES TO DETERMINE THE OUTCOME OF EACH DEVICE. WHERE NO CONSTRUCTION IS TO OCCUR, EXISTING DEVICES SHALL BE PROTECTED IN PLACE AND REMAIN IN OPERATION THROUGHOUT DURATION OF ALL PROJECT PHASES.
B. INFORMATION PROVIDED ON THESE DRAWINGS HAVE BEEN TAKEN FROM DESIGN DRAWING AND FIELD OBSERVATIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PRICING AND COMMENCEMENT OF WORK.
C. PROVIDE FOR ANY AND ALL DEMOLITION WORK NECESSARY TO ACCOMMODATE ALL NEW CONSTRUCTION, INCLUDING ARCHITECTURAL, MECHANICAL, PLUMBING AND/ OR ELECTRICAL WORK.
D. WHERE EXISTING WALLS ARE BEING DEMOLISHED, REMOVE ALL EXISTING COMMUNICATIONS/ LOW VOLTAGE DEVICES AND THEIR ASSOCIATED CONDUITS, BACKBOXES AND CABLING BACK TO POINT OF ORIGINATION. EXISTING CABLING PASSING THROUGH DEMO AREA, NOT BEING DEMOLISHED, SHALL BE SUPPORTED UTILIZING J-HOOK CABLE SUPPORTS INSTALLED PER DIVISION 27 SPECIFICATIONS.
E. CONTRACTOR SHALL COORDINATE THE REMOVAL OR RELOCATION OF ALL COMMUNICATIONS/ LOW VOLTAGE DEVICES (INCLUDING BUT NOT LIMITED TO VOICE, DATA, OVERHEAD PAGING, VIDEO SURVEILLANCE CAMERAS, PHYSIOLOGICAL MONITORING, TELEMETRY, NURSE CALL, SECURITY ACCESS CONTROL, ETC.) WITH ARCHITECTURAL DRAWINGS.
F. CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF DAMAGE TO FIREPROOFING, FINISHES OR STRUCTURE CAUSED BY TELECOM, LOW-VOLTAGE, OR SECURITY CONTRACTORS. RESTORATION SHALL BE RESTORED TO "SAME CONDITION" AS BEFORE DAMAGE OCCURED. CONTRACTOR SHALL OBTAIN WRITTEN ACCEPTANCE OF RESTORATION FROM OWNER. IF DEMOLITION IS REQUIRED TO INSTALL AN ITEM, THE CONTRACTOR SHALL RESTORE THE AREA TO PREVIOUS CONDITION, OR REPLACE DAMAGED ITEMS WITH NEW ITEMS TO MATCH EXISTING.
G. WHERE AREAS BEING DEMOLISHED CONTAIN INFANT PROTECTION SYSTEM (IPS) DEVICES, CONTRACTOR SHALL DISABLE IPS EQUIPMENT AND PROVIDE INTERIM SYSTEM PROGRAMMING PRIOR TO REMOVAL TO PREVENT FALSE ALARMING AND LOCKDOWN OF DEMOLITION AREA.

KEY PLAN



TRUE NORTH PLAN NORTH

RSN: 1707621
Permit #: 23-2315197 LT

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COLORADO LICENSED JIMMY G. YOUSSEF 0050071 PROFESSIONAL ENGINEER 2/17/23

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

THIRD FLOOR - COMMUNICATION, LOW VOLTAGE & SECURITY DEMOLITION PLAN

TD203

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

PROJECT: 45990.00
DATE: 02/17/23

2/16/2023 8:54:41 AM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/MEP_459900_TMCA ICU Build-Out.rvt

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Drawn By: MC
Checked By: JY
Approved By: Approver

1 THIRD FLOOR - COMMUNICATIONS PLAN
1/8" = 1'-0"
0' 4' 8' 16' 24'

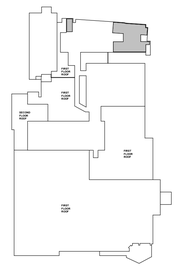
LEGEND NOTES

1. COORDINATE OUTLET LOCATION WITH MONITOR MOUNTING BRACKET PRIOR TO ROUGH IN.
2. LOCATION OF EXISTING COMMUNICATIONS IDF/TDR ROOM. ALL WORK WITHIN THIS ROOM SHALL BE CLOSELY COORDINATED WITH OWNER'S IT PERSONNEL PRIOR TO ROUGH IN. CONTRACTOR SHALL PROVIDE A NEW 12 STRAND SINGLE MODE FIBER-OPTIC BACKBONE CABLE FROM THE EXISTING MDF ROOM TO EXISTING FIBER SHELF WITHIN THIS ROOM. PROVIDE ADDITIONAL FIBER SHELF/ADAPTER PANELS AS REQUIRED.
3. PHYSIOLOGICAL MONITORING AND HOSPITAL NETWORK CABLING SHALL BE COMBINED AND UTILIZE A SINGLE CONDUIT, BACKBOX AND 4 PORT FACEPLATE AT THIS LOCATION.

GENERAL NOTES:

A. REFER TO AND COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR EXACT LOCATIONS OF ALL DEVICES.
B. REFER TO SHEET T000 FOR GENERAL NOTES AND SYMBOLS APPEARING ON THIS SHEET.
C. ALL DEVICES WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL HAVE CONDUITS ROUTED TO ABOVE ACCESSIBLE CEILING SPACE IN CORRIDOR.
D. COMMUNICATIONS CONDUIT PATHWAYS SHALL NOT CONTAIN ANY LENGTH GREATER THAN 100 FEET BETWEEN PULL POINTS. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90-DEGREE BENDS, OR EQUIVALENT, BETWEEN PULL POINTS. IF THERE IS REVERSE BEND IN THE SECTION, A PULL POINT SHALL BE INSTALLED. PULL BOXES SHALL NOT BE USED IN LIEU OF BENDS. THE INSIDE RADIUS OF ALL CONDUIT BENDS SHALL BE AT LEAST 10 TIMES THE INTERNAL DIAMETER. BENDS IN CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES THAT MAY HAVE A DETRIMENTAL EFFECT ON THE CABLE SHEATH DURING INSTALLATION. NO DAISY CHAINING OF BACK BOXES ALLOWED UNLESS OTHERWISE NOTED.
E. ALL CABLING SHALL BE SUPPORTED ABOVE ACCESSIBLE CEILING SPACE USING LOW-VOLTAGE SUPPORTS SIZED AT 40% FILL BASED ON CURRENT NEEDS.

KEY PLAN



TRUE NORTH PLAN NORTH

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wsp

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THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

THIRD FLOOR - COMMUNICATION PLAN

T203.1

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

PROJECT: 45990.00
DATE: 02/17/23

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Drawn By: MC
Checked By: JY
Approved By: Approver

1 THIRD FLOOR - LOW VOLTAGE PLAN
1/8" = 1'-0"

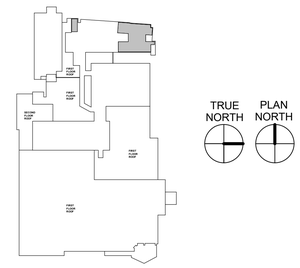
LEGEND NOTES

1. LOCATION OF EXISTING COMMUNICATIONS IDF/TDR ROOM. ALL WORK WITHIN THIS ROOM SHALL BE CLOSELY COORDINATED WITH OWNER'S IT PERSONNEL PRIOR TO ROUGH IN.

GENERAL NOTES:

A. REFER TO AND COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR EXACT LOCATIONS OF ALL DEVICES.
B. REFER TO SHEET T00-00 FOR GENERAL NOTES AND SYMBOLS APPEARING ON THIS SHEET.
C. ALL DEVICES WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL HAVE CONDUITS ROUTED TO ABOVE ACCESSIBLE CEILING SPACE IN CORRIDOR.
D. COMMUNICATIONS CONDUIT PATHWAYS SHALL NOT CONTAIN ANY LENGTH GREATER THAN 100 FEET BETWEEN PULL POINTS. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90-DEGREE BENDS, OR EQUIVALENT, BETWEEN PULL POINTS. IF THERE IS REVERSE BEND IN THE SECTION, A PULL POINT SHALL BE INSTALLED. PULL BOXES SHALL NOT BE USED IN LIEU OF BENDS. THE INSIDE RADIUS OF ALL CONDUIT BENDS SHALL BE AT LEAST 10 TIMES THE INTERNAL DIAMETER. BENDS IN CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES THAT MAY HAVE A DETRIMENTAL EFFECT ON THE CABLE SHEATH DURING INSTALLATION. NO DAISY CHAINING OF BACK BOXES ALLOWED UNLESS OTHERWISE NOTED.
E. ALL CABLING SHALL BE SUPPORTED ABOVE ACCESSIBLE CEILING SPACE USING LOW-VOLTAGE SUPPORTS SIZED AT 40% FILL BASED ON CURRENT NEEDS.
F. ALL OVERHEAD PAGING SPEAKERS SHOWN SHALL BE DAISY-CHAINED USING PUBLIC ADDRESS CALL CABLE TYPE 'S'.
G. CONTRACTOR SHALL EXPAND EXISTING OVERHEAD PAGING SYSTEM UTILIZING DEDICATED AMPLIFIERS, EQUAL TO BOGEN TPU STYLE, SIZED APPROPRIATELY FOR AREA BEING SERVED. CONTRACTOR SHALL SIZE PAGING AMPLIFIER TO PROVIDE A 40% GROWTH RATE AT TIME OF INSTALLATION. OVERHEAD PAGING EQUIPMENT WILL BE HOUSED IN ONE COMM ROOM PER FLOOR AS NOTED PER ENLARGED FLOOR PLANS.

KEY PLAN



TRUE NORTH PLAN NORTH

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THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

THIRD FLOOR - LOW VOLTAGE PLAN

T303.1

PROJECT: 45990.00
DATE: 02/17/23

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

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Drawn By: MC
Checked By: JY
Approved By: Approver

1 THIRD FLOOR - SECURITY PLAN
1/8" = 1'-0"

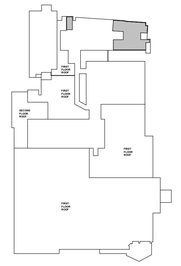
LEGEND NOTES

1. PROVIDE SITTER CAMERAS IN ICU ROOMS. CAMERAS SHALL NOT BE RECORDED AND SHALL BE PASSWORD PASSWORD PROTECTED FOR SPECIFIC USERS.
2. PROVIDE PATIENT SITTER CAMERA MONITORING STATION AT THIS LOCATION.
3. PROVIDE NEW DOOR INTERCOM STATION WITH CONNECTION TO ACCESS CONTROL SYSTEM FOR DOOR RELEASE FROM NURSE STATION INTERCOM MASTER STATIONS.
4. LOCATION OF EXISTING COMMUNICATIONS IDF/TDR ROOM. ALL WORK WITHIN THIS ROOM SHALL BE CLOSELY COORDINATED WITH OWNER'S IT PERSONNEL PRIOR TO ROUGH IN.

GENERAL NOTES - SECURITY:

A. REFER TO SHEET T000 FOR SYMBOLS AND ADDITIONAL GENERAL NOTES PERTAINING TO THIS SHEET.
B. REFER TO AND COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR EXACT LOCATIONS OF ALL WALL MOUNTED DEVICES.
C. ALL DEVICES WITHIN AREAS OF HARD PAN CEILINGS SHALL BE PIPED TO ABOVE ACCESSIBLE CEILING SPACE IN CORRIDOR.
D. ALL LOW VOLTAGE CABLES SHALL BE INSTALLED IN LOW VOLTAGE CABLING SUPPORT SYSTEM.
E. COMMUNICATIONS CONDUIT PATHWAYS SHALL NOT CONTAIN ANY LENGTH GREATER THAT 100 FEET BETWEEN PULL POINTS. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90 DEGREE BENDS, OR EQUIVALENT, BETWEEN PULL POINTS.
F. WIRING TO DEVICES SHALL MEET OR EXCEED MANUFACTURER SPECIFICATIONS.
G. DOOR HARDWARE PROVIDED AND/ OR INSTALLED BY DIVISION 08 IS SHOWN FOR COORDINATION PURPOSES ONLY. EXACT LOCATION AND INSTALLATION METHODS FOR THESE DEVICES SHALL BE BY DIVISION 08.
H. SECURITY/ ACCESS CONTROL, DOOR HARDWARE, AND ELECTRICAL CONTRACTORS SHALL COORDINATE FOR INFRASTRUCTURE, INSTALLATION, AND OPERATIONAL VERIFICATION OF ACCESS CONTROLLED DOOR SYSTEMS PRIOR TO ROUGH-IN.
I. NOT ALL DOOR DEVICES MAY BE SHOWN ON THIS SHEET. REFER TO DIVISION 08 DOOR HARDWARE SPECIFICATION FOR HARDWARE LISTING.
J. SEPARATE POWER SUPPLIES MAY BE REQUIRED. REFER TO DIVISION 08 DOOR HARDWARE SPECIFICATION AND MANUFACTURER REQUIREMENTS. DIVISION 26 CONTRACTOR SHALL PROVIDE POWER CIRCUIT AS REQUIRED.
K. DOOR STATUS SWITCH LOCATION MAY REQUIRE ADJUSTMENT DUE TO DOOR HARDWARE INTERFERENCE. DOOR STATUS SWITCH SHALL BE INSTALLED AS CLOSE TO DOOR STRIKE SIDE OF FRAME AS POSSIBLE.
L. SECURITY AND DOOR HARDWARE CONTRACTORS SHALL PROVIDE PROPER DELAY/ SYNCHRONIZATION BETWEEN LOCKS, LATCHES, MAGNETIC LOCKS, AND AUTO OPERATORS AS PER DOOR HARDWARE SPECIFICATIONS OPERATIONAL NOTES.
M. ACCESS CONTROL JUNCTION BOX SHALL BE INSTALLED ON SECURE SIDE OF DOOR, IN AN ACCESSIBLE LOCATION. BOX SHALL BE MINIMUM 4X4 DEEP BOX WITH BLANK COVER PLATE. PROVIDE 1" MT PATHWAY FROM BOX TO SECURE SIDE OF WALL.
N. FIRE DROP RELAY SHALL BE PROVIDED BY FIRE ALARM CONTRACTOR FOR DOOR HARDWARE AND POWER SUPPLIES REQUIRING A FIRE ALARM INTERFACE.
O. CEILING MOUNTED VIDEO SURVEILLANCE CAMERAS SHALL BE PROVIDED WITH A 15' CABLE SERVICE LOOP ABOVE CEILING AT CAMERA END.
P. VIDEO SURVEILLANCE CAMERA SHOWN IN COMM ROOM FOR COORDINATION PURPOSES ONLY. CAMERA SHALL PATCH DIRECTLY INTO NETWORK SWITCH LOCATED WITHIN THIS ROOM. ADDITIONAL CABLING AND TERMINATION IS NOT REQUIRED.

KEY PLAN



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COLORADO LICENSED 0050071 PROFESSIONAL ENGINEER 2/11/23

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

THIRD FLOOR - SECURITY PLAN

T403.1

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

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DATE: 02/17/23

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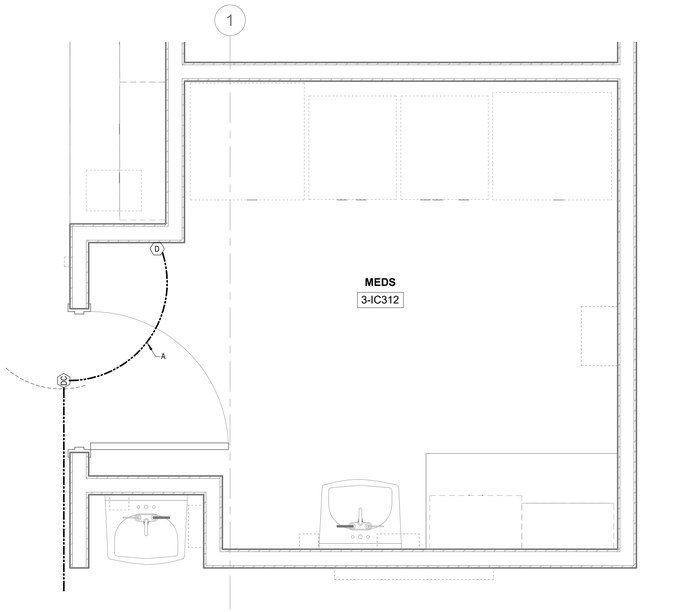
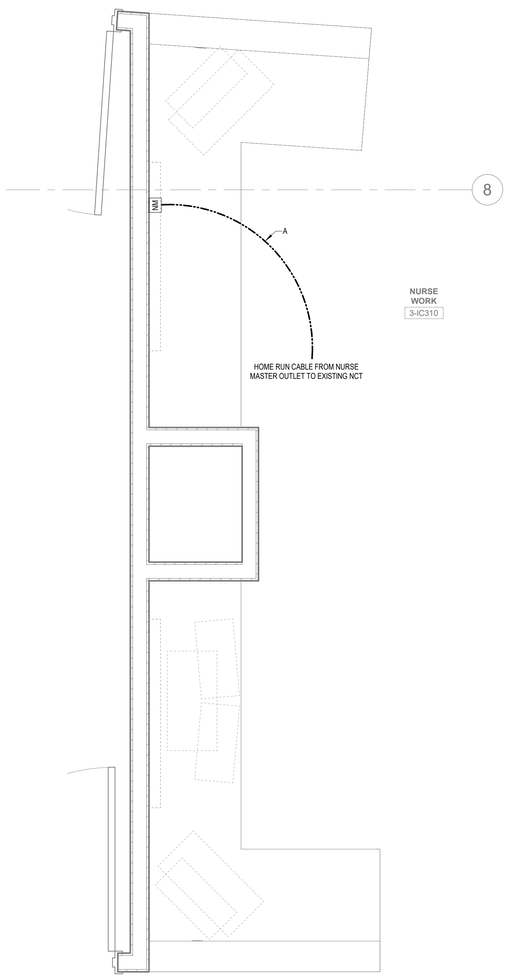
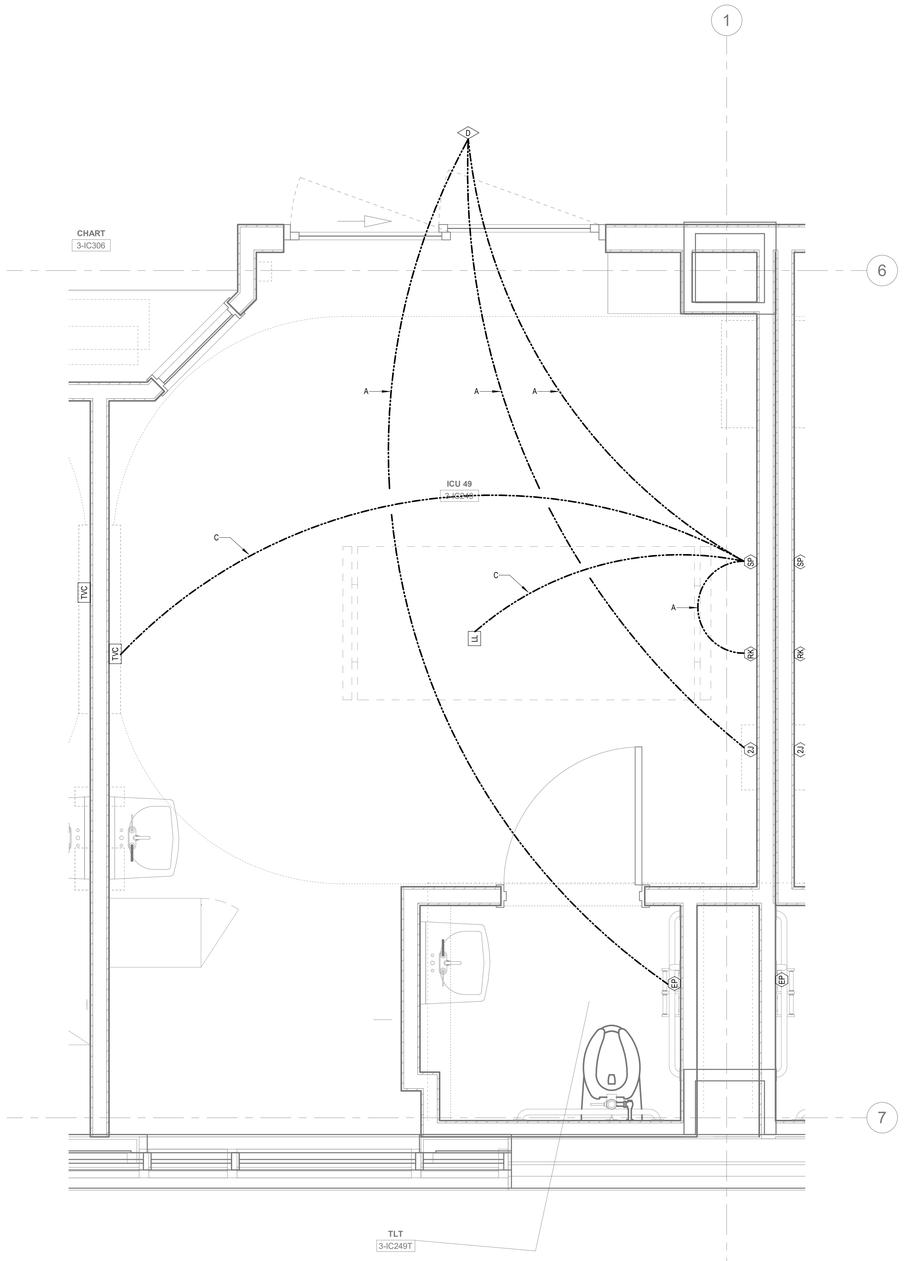


3 TYPICAL NC WIRING LAYOUT - DUTY STATION
3/4" = 1'-0" 0' 4' 8' 16' 24'



2 TYPICAL NC WIRING LAYOUT - NURSE STATION/MASTER STATION
3/4" = 1'-0" 0' 4' 8' 16' 24'



1 TYPICAL NC WIRING LAYOUT - ICU ROOM
3/4" = 1'-0" 0' 4' 8' 16' 24'

RSN: 1707621
Permit #: 23-2315197 LT

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THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA

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HCA Project No.: 2740000034

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ENLARGED TECHNOLOGY VIEWS

T501

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
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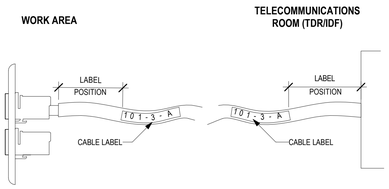
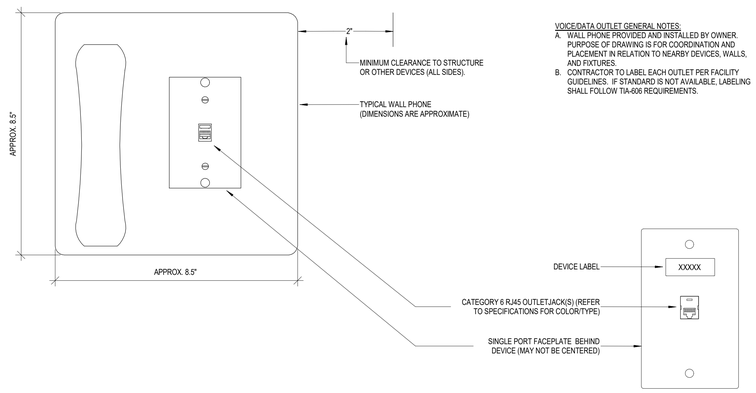


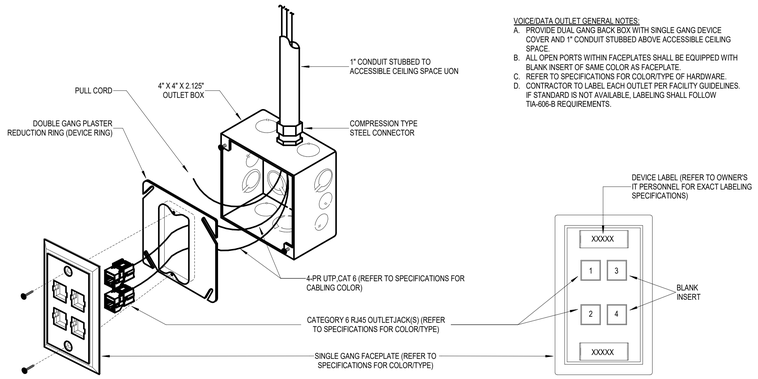
DETAIL NOTES:
A. CONTRACTOR SHALL COORDINATE WITH OWNER'S IT PERSONNEL FOR EXACT LABELING NOMENCLATURE PRIOR TO ROUGH IN.

6 CABLE LABELING PLACEMENT
NOT TO SCALE



VOICE/DATA OUTLET GENERAL NOTES:
A. WALL PHONE PROVIDED AND INSTALLED BY OWNER. PURPOSE OF DRAWING IS FOR COORDINATION AND PLACEMENT IN RELATION TO NEARBY DEVICES, WALLS, AND FIXTURES.
B. CONTRACTOR TO LABEL EACH OUTLET PER FACILITY GUIDELINES. IF STANDARD IS NOT AVAILABLE, LABELING SHALL FOLLOW TIA-606 REQUIREMENTS.

3 WALL PHONE OUTLET INSTALLATION
NOT TO SCALE

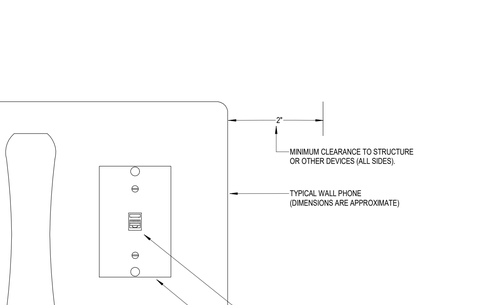


VOICE/DATA OUTLET GENERAL NOTES:
A. PROVIDE DUAL GANG BACK BOX WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE.
B. ALL OPEN PORTS WITHIN FACEPLATES SHALL BE EQUIPPED WITH BLANK INSERT OF SAME COLOR AS FACEPLATE.
C. REFER TO SPECIFICATIONS FOR COLOR/TYPE OF HARDWARE.
D. CONTRACTOR TO LABEL EACH OUTLET PER FACILITY GUIDELINES. IF STANDARD IS NOT AVAILABLE, LABELING SHALL FOLLOW TIA-606-B REQUIREMENTS.

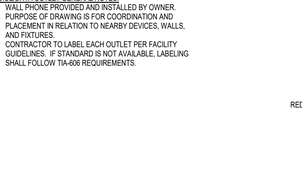
2 WALL MOUNTED OUTLET INSTALLATION
NOT TO SCALE

GENERAL NOTES:
A. CABLING CONTRACTOR TO INSTALL COAX CABLE ONLY. LEAVING A MINIMUM 15 FEET OF SLACK AT THE TVJ LOCATION AND 2 FEET AT THE OUTLET FOR TERMINATION BY TV VENDOR.
B. ALL COAX CABLES SHALL BE TERMINATED AND CERTIFIED BY THE TV VENDOR.
C. CONTRACTOR SHALL TERMINATE AND CERTIFY ALL CAT5E CABLING.
D. CAT5E CABLING SHALL BE TERMINATED WITHIN THE VENDOR EQUIPMENT RACK LOCATED WITHIN THE COMMUNICATIONS ROOM.

5 CATV HORIZONTAL CABLE ONE LINE
NOT TO SCALE

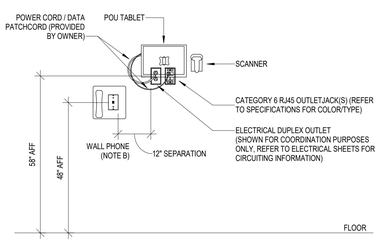


WALL MOUNTED J-HOOK SYSTEM



CEILING MOUNTED THREADED ROD J-HOOK SYSTEM

J-HOOK CABLE MOUNTING TECHNIQUES DETAIL



GENERAL NOTES:
A. POINT OF USE/POU)WALL PHONE DEVICES TO BE PROVIDED AND INSTALLED BY OWNER. PURPOSE OF DRAWING IS FOR COORDINATION AND PLACEMENT IN RELATION TO NEARBY DEVICES, WALLS, AND FIXTURES.
B. WALL PHONE OUTLET SHALL BE MOUNTED IN PROXIMITY TO POU DEVICE. 2" SEPARATION SHALL BE ACCOMMODATED BETWEEN WALL PHONE DEVICE AND POU TABLET. ONE WALL PHONE OUTLET NEEDED PER CLEAN UTILITY ONLY. ON OPPOSITE END OF CLEAN UTILITY, THERE MAY BE A NURSE CALL DUTY STATION IN LIEU OF WALL PHONE. CONTRACTOR SHALL PROVIDE THE SAME CLEARANCES FOR NURSE CALL DUTY STATION AS IS ALLOTTED FOR WALL PHONE DEVICE.
C. DEVICES SHOWN SHALL ALLOW FOR A MINIMUM OF 2" SEPARATION FROM EDGE OF DEVICE TO ANY OTHER DEVICE OR STRUCTURE.

4 POINT OF USE (POU)/WALL PHONE INSTALLATION
NOT TO SCALE

SYSTEM	CABLE COLOR	SUPPORT TYPE	CEILING ZONE	NOTES	S = SHARED NS = NOT SHARED
VOICE	BLACK	J-1 & J-5	1	CAT 6 FOR TELEPHONE, FAX, ANALOG, VOIP.	
DATA	BLACK	J-1 & J-5	1	CAT 6 FOR IT&S NETWORK NEEDS: PC, PRINTERS, SCANNERS, TIME CLOCKS, PACS	S
CCTV (SECURITY & CLINICAL)	BLACK	J-1 & J-5	1	CAT 6 FOR CCTV CAMERAS.	
WAP	YELLOW	J-1 & J-5	1	CAT 6A FOR WIRELESS ACCESS POINTS (WAPS). WI-FI	
PHYSIOLOGICAL MONITORING (HARDWIRED)	ORANGE	J-2 & J-5	1	CAT 5E FOR HARD WIRED PHYSIOLOGICAL MONITORING (PM). CENTRAL STATIONS, REMOTE VIEW MONITORS, FETAL MONITORS	NS
TELEMETRY COAX (WIRELESS)	WHITE	J-3	2	RG6/RG11/HARDLINE COAX CABLE FOR WIRELESS TELEMETRY DEVICES MOUNTED TO UNDERSIDE OF CEILING.	NS
CATV COAX	BLACK	J-4 & J-5	2	RG6/RG11 COAX CABLE FOR TV SYSTEM	S
CATV DATA	BLUE	J-4 & J-5	2	CAT 5E FOR TV SYSTEM	
NURSE CALL	GREEN	J-2 & J-5	2	CAT 5E AND MIX OF LOW VOLTAGE CONTROL CABLING FOR NURSE CALL SYSTEM	NS
RFID/RTLS	PURPLE	J-3	2	CAT 5E, CAT 6 AND/OR LOW VOLTAGE CONTROL CABLING FOR EQUIPMENT/STAFF LOCATING/TRACKING SYSTEM.	NS
INFANT ABDUCTION	WHITE	J-3	2	CAT 5E, CAT 6 AND/OR LOW VOLTAGE CONTROL CABLING FOR INFANT ABDUCTION SYSTEM	
WONDERING SYSTEM	WHITE	J-3	2	CAT 5E, CAT 6 AND/OR LOW VOLTAGE CONTROL CABLING FOR WONDERING PATIENT TRACKING SYSTEM	NS
OVERHEAD PAGING	GREY	J-3	3	LOW VOLTAGE AUDIO CABLE FOR SPEAKERS, AMPS, MICROPHONES, ETC.	NS
DISTRIBUTED ANTENNA SYSTEM (DAS)	WHITE	J-3	3	COAX CABLE FOR DISTRIBUTED ANTENNA SYSTEM (DAS). CELL BOOSTING AND/OR EMERGENCY RESPONDER RADIO	NS
EMS RADIO	WHITE/ BLACK	J-3	3	COAX CABLE FOR COMMUNICATION BETWEEN EMS AND ED STAFF	NS
BAS	WHITE/ GREY	J-3	3	LOW VOLTAGE CONTROL WIRING FOR BUILDING AUTOMATION CONTROLS	NS
INTERCOM	GRAY	J-4	2	LOW VOLTAGE CONTROL CABLING FOR INTERCOM DEVICES SUCH AS AIPHONES	
ELECTRONIC ACCESS CONTROL	WHITE	J-4	2	LOW VOLTAGE CONTROL CABLE FOR ELECTRONIC ACCESS CONTROL SYSTEM. CARD READERS, MAG LOCKS, ETC.	S
DATA FIBER BACKBONE	YELLOW	J-1	3	FIBER OPTIC CABLE USED FOR NETWORK BACKBONE INFRASTRUCTURE	
DATA COPPER BACKBONE	YELLOW	J-1	3	MULTI-PAIR COPPER CABLE USED FOR ANALOG/DIGITAL TELEPHONY BACKBONE INFRASTRUCTURE	S

SUPPORT	SHORT DESCRIPTION
J-1	MAIN CABLE PATHWAY DOWN CORRIDORS. J-HOOK STYLE SUPPORT EITHER WALL MOUNTED OR SUPPORTED FROM OVERHEAD STRUCTURE. SHOULD BE SIZED BASED ON PRESENT NEED PLUS 30% FUTURE CAPACITY. CAN SUPPORT MULTIPLE SYSTEMS AS OUTLINED.
J-2	MAIN CABLE PATHWAY DOWN CORRIDORS. J-HOOK STYLE SUPPORT EITHER WALL OR CEILING MOUNTED FROM OVERHEAD STRUCTURE. SHOULD BE SIZED FOR PRESENT NEEDS PLUS 30% FUTURE CAPACITY. SHOULD BE DEDICATED TO ONE SYSTEM.
J-3	MAIN CABLE PATHWAY DOWN CORRIDORS. J-HOOK STYLE SUPPORT EITHER WALL OR CEILING MOUNTED FROM OVERHEAD STRUCTURE. SHOULD BE SIZED FOR PRESENT NEEDS WITH NO FUTURE CAPACITY. SHOULD BE DEDICATED TO ONE SYSTEM.
J-4	MAIN CABLE PATHWAY DOWN CORRIDORS. J-HOOK STYLE SUPPORT EITHER WALL OR CEILING MOUNTED FROM OVERHEAD STRUCTURE. SHOULD BE SIZED FOR PRESENT NEEDS PLUS 30% FUTURE CAPACITY. CAN SUPPORT MULTIPLE SYSTEMS AS OUTLINED
J-5	J-HOOK STYLE SUPPORTS USED TO ROUTE CABLING FROM MAIN CABLE PATHWAY WITHIN CORRIDORS TO OUTLET LOCATION WITHIN ROOMS. SUPPORT MAY SUPPORT ALL LOW VOLTAGE CABLING, UNLESS REQUIRED OTHERWISE, THAT IS BEING ROUTED INTO THE SAME ROOMS.

CEILING ZONE DESCRIPTION	CEILING ZONE #
EASILY ACCESSIBLE FOR FREQUENT MOVES, ADDS, AND CHANGES. MAJORITY OF PATHWAY IS UNDER MOST ALL OTHER SYSTEMS.	1
NOT AS EASILY ACCESSIBLE AS ZONE #1 BUT STILL ACCESSIBLE FOR MOVES, ADDS, AND CHANGES. PATHWAY MAY BE ROUTED ABOVE SOME SYSTEMS BUT STILL ACCESSIBLE USING NORMAL MEANS. ZONE 2 WOULD BE CONSIDERED ABOVE ZONE #1.	2
NOT EASILY ACCESSIBLE. SYSTEMS THAT ARE NOT REGULARLY ACCESSED OR MODIFIED. MAJORITY OF PATHWAY CAN BE LOCATED ABOVE ALL SYSTEMS.	3

CABLE SUPPORT DETAIL NOTES:
A. ALL DEVICE ACCESSORY HARDWARE SHALL BE AS PROVIDED OR AS SPECIFIED BY MANUFACTURER.
B. ALL MOUNTING HARDWARE SHALL MEET OR EXCEED MANUFACTURER SPECIFICATIONS AND FEDERAL, STATE, AND LOCAL AHJ REQUIREMENTS.
C. MAXIMUM DISTANCE BETWEEN CABLE SUPPORTS FOR SHALL NOT EXCEED 4'0".
D. SEAL ALL PENETRATIONS THROUGH RATED WALLS WITH APPROVED SEALANT PER DIVISION 07 SPECIFICATIONS.
E. DIMENSIONS SHOWN ARE FOR COORDINATION PURPOSES ONLY. EXACT LOCATION OF ALL DEVICES SHALL BE VERIFIED IN THE FIELD.
F. SIZE J-HOOKS SO AS NOT TO EXCEED MANUFACTURER FILL LIMITS BASED ON PRESENT NEEDS.
G. CABLE TO BE SECURED TO J-HOOKS UTILIZING ANSI/TIA AND/OR BICSI STANDARDS IN ORDER TO REDUCE PINCH POINTS AND OTHER DETRIMENTAL EFFECTS ON CABLE.
H. WHERE ROUTE CROSSES CORRIDORS, PROVIDE J-HOOKS MOUNTED ON THREADED ROD.
I. WITHIN FIFTY FEET OF ANY TELECOMMUNICATIONS ROOM, SPACING FOR THESE J-HOOKS SHALL BE REDUCED TO 1' - 4' CENTERS.

1 J-HOOK SUPPORTS MOUNTING
NOT TO SCALE

RSN: 1707621
Permit #: 23-2315197 LT

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COLORADO LICENSED 0050071 PROFESSIONAL ENGINEER 2/17/23

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

TECHNOLOGY DETAILS

T701

PROJECT: 45990.00
DATE: 02/17/23

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

2/16/2023 8:53:59 AM Autodesk Docs://45990.00 HCA Aurora ICU Buildout R22/MEP_45990D_TMCA ICU Build-Out.rvt

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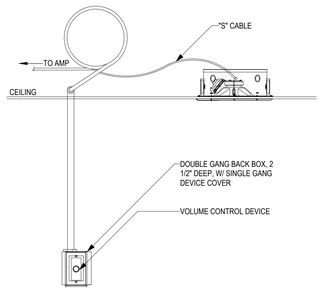
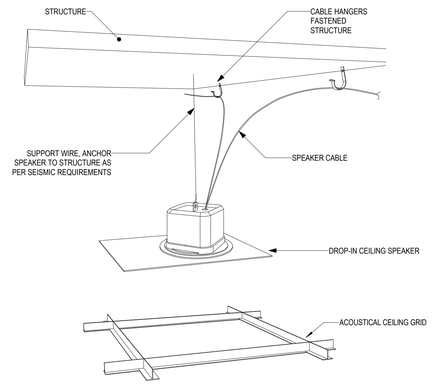
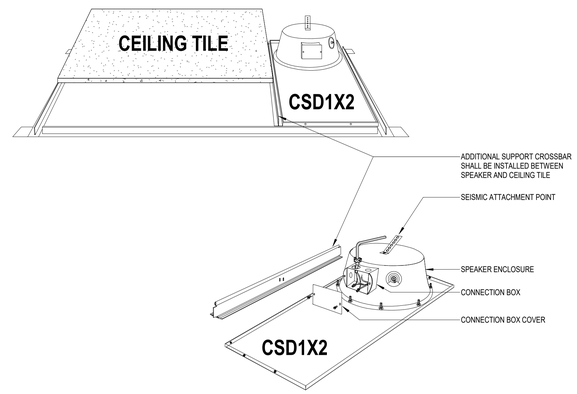
Drawn By: MC
Checked By: JY
Approved By: Approver

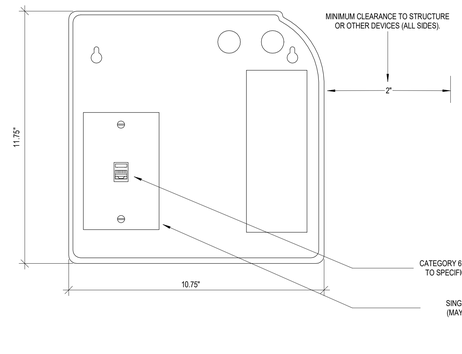


7 OVERHEAD PAGING SPEAKER W/ VOLUME CONTROL
NOT TO SCALE



6 DROP IN SPEAKER INSTALLATION
NOT TO SCALE





5 TIMECLOCK OUTLET INSTALLATION
NOT TO SCALE

VOICE/DATA OUTLET GENERAL NOTES:
A. TIME CLOCK PROVIDED AND INSTALLED BY OWNER. PURPOSE OF DRAWING IS FOR COORDINATION AND PLACEMENT IN RELATION TO NEARBY DEVICES, WALLS, AND FIXTURES.
B. CONTRACTOR TO TERMINATE DATA CABLE LEAVING 12" OF SLACK. FACEPLATE MAY NOT REQUIRED.
C. CONTRACTOR TO LABEL EACH OUTLET PER FACILITY GUIDELINES. IF STANDARD IS NOT AVAILABLE, LABELING SHALL FOLLOW TIA-606 REQUIREMENTS.

TYPICAL ASSEMBLY WITH SLACK LOOP

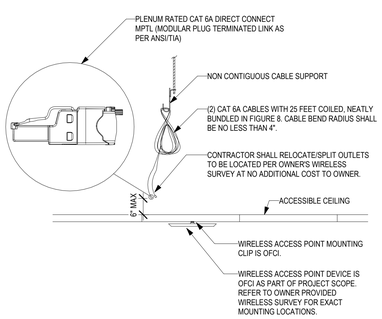
APPLICABLE SYMBOLS

CONNECTOR TYPES

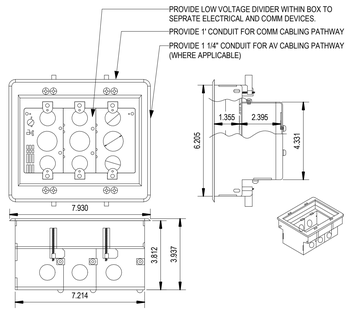
TYPICAL ASSEMBLY WITH BACK BOX

OUTDOOR ASSEMBLY WITH SURFACE MOUNT BOX

4 DIRECT ATTACH OUTLET (WAP/CAMERA)
NOT TO SCALE

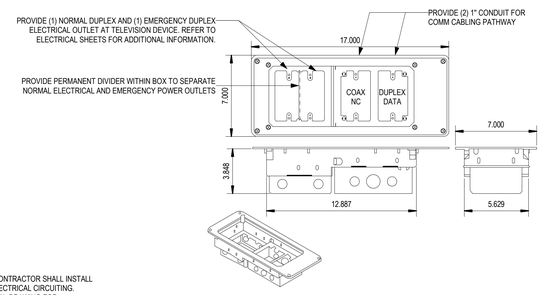


3 WAP OUTLET INSTALLATION
NOT TO SCALE



DETAIL NOTES:
A. DIV. 26 ELECTRICAL CONTRACTOR SHALL INSTALL AV BACKBOX AND ELECTRICAL CIRCUITING.
B. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
C. RECESSED AV BOX SHALL BE UTILIZED FOR ALL NON- CLINICAL TV, INFO. MONITOR, AND TRACKER LOCATIONS.

2 ARLINGTON RECESSED AV BOX (TVBS507)
NOT TO SCALE



DETAIL NOTES:
A. DIV.26 ELECTRICAL CONTRACTOR SHALL INSTALL AV BACKBOX AND ELECTRICAL CIRCUITING.
B. REFER TO ELECTRICAL DRAWING FOR ADDITIONAL INFORMATION.
C. RECESSED AV BOX SHALL BE UTILIZED FOR ALL PATIENT ROOM TELEVISION LOCATIONS.

1 ARLINGTON RECESSED AV BOX (TVBS613)
NOT TO SCALE

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T702

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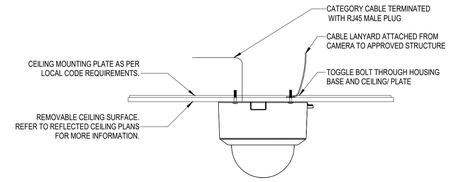
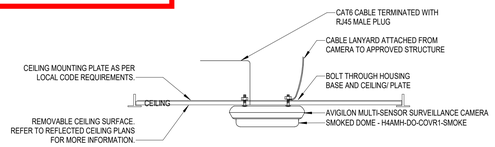
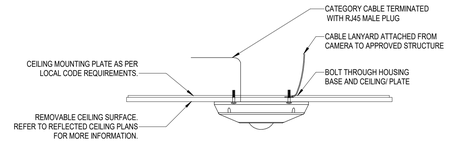


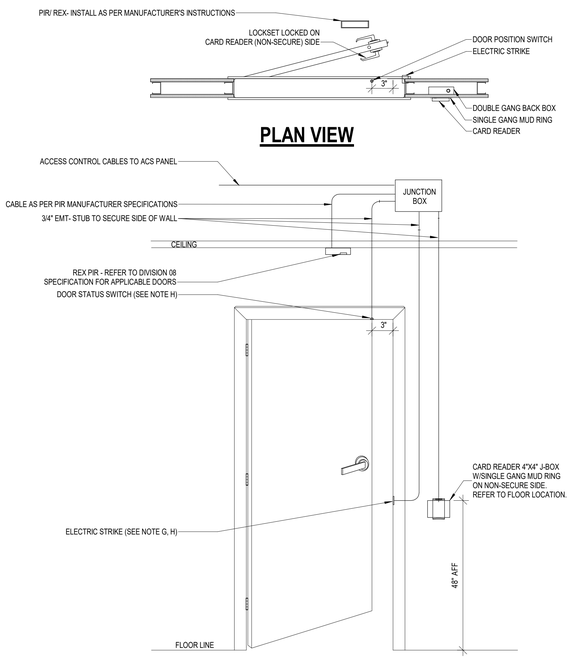
8 TYPICAL IP INDOOR SURFACE CEILING MOUNT DOME CAMERA
NOT TO SCALE



7 AVIGILON MULTI-SENSOR SURFACE CEILING MOUNT CAMERA DETAIL
NOT TO SCALE

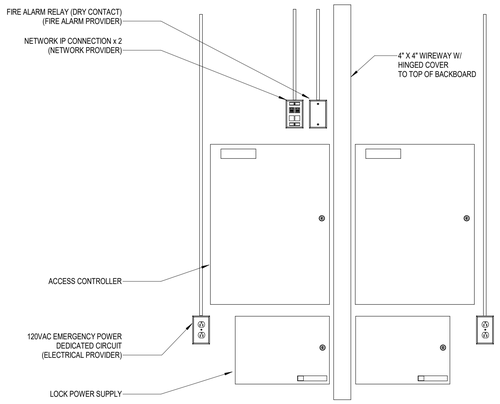


6 AVIGILON FISHEYE 360 DROP CEILING MOUNT
NOT TO SCALE



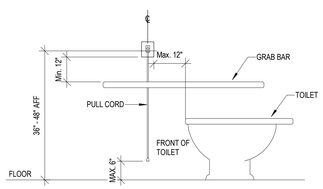
5 SINGLE DOOR - LH - ELECTRIC STRIKE
NOT TO SCALE

GENERAL NOTES
A. REFER TO FLOOR PLANS FOR DEVICE LOCATIONS.
B. WIRING TO DEVICES SHALL MEET OR EXCEED DEVICE MANUFACTURER'S SPECIFICATIONS.
C. DOOR HARDWARE PROVIDED AND INSTALLED BY DIV. 08 IS SHOWN FOR COORDINATION PURPOSES ONLY. EXACT LOCATION AND INSTALLATION METHODS FOR THESE DEVICES SHALL BE BY DIV. 08.
D. SECURITY CONTRACTOR SHALL PROVIDE PROPER DELAY/ SYNCHRONIZATION BETWEEN LOCKS, LATCHES, MAGNETIC LOCKS, AND AUTO OPENERS FOR DOORS TO OPERATE AS PER HARDWARE SPECIFICATION NOTES.
E. SECURITY/ ACCESS CONTROL, DOOR HARDWARE, AND ELECTRICAL CONTRACTORS SHALL COORDINATE FOR INFRASTRUCTURE, INSTALLATION, AND OPERATIONAL VERIFICATION OF DOOR SYSTEMS PRIOR TO ROUGH IN.
F. NOT ALL DOOR DEVICES MAY BE SHOWN ON THIS SHEET. REFER TO DOOR HARDWARE SPECIFICATION FOR HARDWARE LISTING.
G. SEPARATE POWER SUPPLY MAY BE REQUIRED. CHECK MANUFACTURER REQUIREMENTS AND DIV. 8 SPECIFICATIONS.
H. CONDUIT BY DIV. 26. 3/4" HOLE IN FRAME DRILLED BY DIV. 08 OR DIV. 26. DOOR DEVICE PROVIDED AND INSTALLED BY ACCESS CONTROL CONTRACTOR.
I. DOOR STATUS SWITCH(ES) MAY REQUIRE TO BE RELOCATED DUE TO DOOR HARDWARE INTERFERENCE (IE. VERTICAL RODS, COORDINATORS, ETC.).
J. COORDINATE WITH ELECTRICAL SHEETS FOR POWER TO LOCAL POWER SUPPLIES. REFER TO DIVISION 08 DOOR HARDWARE SPECIFICATION FOR POWER SUPPLY RESPONSIBILITIES.
K. CORING OF DOORS FOR CABLE PATHWAY BETWEEN HINGE/ ETL AND LOCKING DEVICE SHALL BE BY DOOR PROVIDER.
L. ACCESS CONTROL JUNCTION BOX SHALL BE INSTALLED ON SECURE SIDE OF DOOR IN ACCESSIBLE LOCATION. BOX SHALL BE A DOUBLE GANG BOX WITH DOUBLE GANG MUD RING AND BLANK COVER PLATE. IN ADDITION TO CONDUIT PATHWAYS SHOWN, PROVIDE 3/4" CONDUIT PATHWAY FROM BOX TO SECURE SIDE OF WALL.

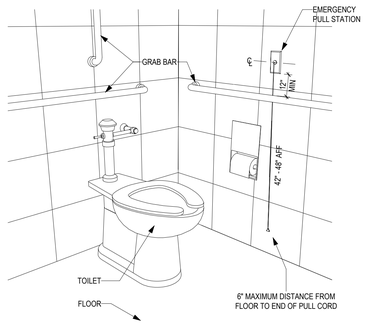


4 TYPICAL ACCESS CONTROL PANEL SETUP
NOT TO SCALE

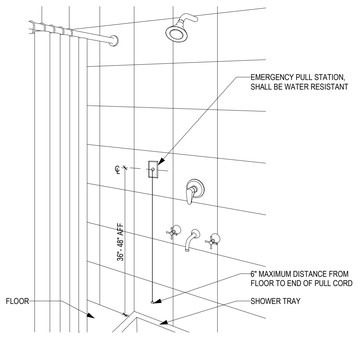
DETAIL NOTES:
A. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS SHALL BE MIN. 12"
B. THE DEVICE CORD SHALL BE ACCESSIBLE TO A PATIENT LYING ON THE FLOOR.
C. BATH STATION SHALL BE LOCATED TO THE SIDE OF TOILET WITHIN 12" OF THE FRONT OF THE TOILET BOWL.



EP
APPLICABLE SYMBOLS



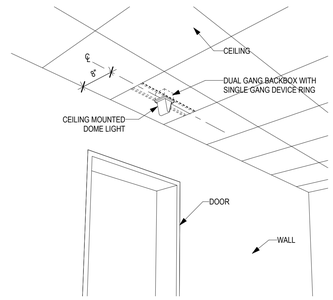
3 EMERGENCY PULL STATION (TOILET)
NOT TO SCALE



EP
APPLICABLE SYMBOLS

DETAIL NOTES:
A. SHOWER STATION DEVICE SHALL BE WITHIN NORMAL VIEW OF THE USER AND WITHIN REACH OF STAFF WITHOUT THE NEED TO STEP INTO THE SHOWER OR TUB.
B. STATION SHALL BE LOCATED ON SAME WALL AS THE SHOWER HEAD TO MINIMIZE DIRECT EXPOSURE.

2 EMERGENCY PULL STATION (SHOWER)
NOT TO SCALE



D
APPLICABLE SYMBOLS

1 CEILING MOUNTED DOME/ZONE LIGHT
NOT TO SCALE

RSN: 1707621
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THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

HCA Project No.: 2740000034

Revision		
No.	Date	Description

TECHNOLOGY DETAILS

T703

PROJECT: 45990.00
DATE: 02/17/23

LINE IS 3 INCHES WHEN PRINTED FULL SIZE
FULL SHEET SIZE = 30"X42"

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Drawn By: MC
Checked By: JY
Approved By: Approver

TECHNOLOGY SYSTEMS EQUIPMENT AND STRUCTURED CABLING COORDINATION SCHEDULE

SYSTEM	EQUIPMENT			CABLING					ROUGH IN						GROUNDING
	EQUIPMENT FURNISHED BY	EQUIPMENT INSTALLED BY	TEST/CERTIFIED BY	CABLE FURNISHED BY	CABLE INSTALLED BY	CABLE TERMINATIONS BY	LABELED BY	TEST/CERTIFIED BY	CONDUIT SLEEVES BY (NOTE 3)	CONDUIT PATHWAYS BY (NOTE 4)	PRE-MANUFACTURED FIRE SLEEVE BY (NOTE 5)	BACK BOXES PROVIDED BY	BACK BOXES INSTALLED BY (NOTE 6)	FLOOR/WALL CORES/SLEEVES BY (NOTE 7)	CONNECTION TO TGB BY
IT&S SYSTEMS - VOICE/DATA															
IT&S/VOICE EQUIPMENT (WORKSTATION) (NOTE 9)	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
IT&S/DATA EQUIPMENT (WORKSTATION) (NOTE 9)	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
WIRELESS ACCESS POINT (WAP)	OWNER	DIV 27	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
IT&S/DATA EQUIPMENT (TEC/TDR)	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IT&S/VOICE EQUIPMENT (TEC/TDR)	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WORKSTATION / EQUIPMENT PATCH CORDS	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MEDICAL EQUIPMENT NETWORK CONNECTED DEVICES (NOTE 9)	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
TIME CLOCK (EMPLOYEE)	OWNER	GC	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
NURSE CALL/CODE BLUE															
STATION DEVICES	NC	NC	NC	DIV 27	DIV 27	NC	NC	NC	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
HEADEND CABINET (IF APPLICABLE)	NC	NC	NC	DIV 27	DIV 27	NC	NC	NC	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
NETWORK SWITCHES (IF APPLICABLE)	NC	NC	NC	DIV 27	DIV 27	NC	NC	NC	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
CALL CORD/PILLOW SPEAKERS	NC	NC	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PATCH CORDS	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CATV SYSTEMS															
COAXIAL CABLE	N/A	N/A	N/A	DIV 27	DIV 27	TV	TV/DIV 27	TV	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	TV
DATA CABLE	N/A	N/A	N/A	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
CROSS ROOM NURSE CALL CONTROL	TV	TV	TV	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	N/A	DIV 26	DIV 26	N/A	N/A
TV OUTLET COVER PLATE	DIV 27	DIV 27	DIV 27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TELEVISIONS (PATIENT, WAITING, STAFF LOUNGE, ETC.)	TV	TV	TV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TELEVISION WALL MOUNTING BRACKET	TV	GC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CATV EQUIPMENT (SPLITTERS/COMBINERS/AMPLIFIERS)	TV	TV	TV	N/A	N/A	N/A	TV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TV
CROSS CONNECTS/PATCH CORD	TV	TV	TV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SECURITY SYSTEMS															
NVR/DVR	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER
SURVEILLANCE CAMERAS/MOUNTS/LICENSES	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
NETWORK SWITCHES	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER
PATCH CORDS	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ELECTRONIC ACCESS CONTROL SYSTEM	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 26	DIV 28	DIV 26	DIV 26	DIV 26	N/A
DOOR HARDWARE	DIV 08	DIV 08	DIV 08	DIV 08	DIV 08	DIV 08	DIV 08	N/A	N/A	DIV 26	N/A	DIV 26	DIV 26	N/A	N/A
WIRELESS PANIC BUTTON (IF APPLICABLE)	PB	PB	PB	N/A	N/A	N/A	PB	PB	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WIRED PANIC BUTTON (IF APPLICABLE)	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 26	DIV 28	DIV 26	DIV 26	N/A	N/A
INFANT PROTECTION	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	N/A
INTRUSION DETECTION	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 26	DIV 28	DIV 26	DIV 26	N/A	N/A
EMERGENCY (BLUE) PHONE	GC	GC	DIV 26/27	DIV 26/27	DIV 26/27	DIV 26/27	DIV 26/27	DIV 26/27	DIV 26/27	DIV 26	DIV 27	DIV 26	DIV 26	N/A	DIV 26
INTERCOM	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 26	DIV 28	DIV 26	DIV 26	DIV 26	N/A
OVERHEAD PAGING SYSTEM															
SPEAKERS/HORNS	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
AMPLIFIERS	DIV 27	DIV 27	DIV 27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DIV 27
VOLUME CONTROL	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
TELEPHONE ACCESS EQUIPMENT	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
ZONE DISTRIBUTION EQUIPMENT (IF APPLICABLE)	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
PATIENT MONITORING SYSTEM															
PHYSIOLOGICAL MONITORING (PM)	PM	PM	PM	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
FETAL MONITORING (FM)	PM	PM	PM	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
TELEMETRY	PM	PM	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	N/A
NETWORK SWITCHES	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER
PATCH CORDS	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TELECOMMUNICATIONS ROOMS (TEC/TDR)															
OPEN FRAME EQUIPMENT RACKS (2POST/4POST)	DIV 27	DIV 27	DIV 27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DIV 27
ENCLOSED EQUIPMENT CABINETS	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DIV 27
BASKET TRAY & SUPPORT HARDWARE	DIV 27	DIV 27	DIV 27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DIV 27
FIRE RATED PLYWOOD BACKBOARDS	DIV 26	DIV 26	DIV 26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CABLE MANAGEMENT (VERTICAL/HORIZONTAL)	DIV 27	DIV 27	DIV 27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DIV 27
UNINTERRUPTIBLE POWER SUPPLY (UPS)	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NETWORK SWITCHES, SERVERS, & ADDITIONAL NETWORK GEAR EQUIP.	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER
TELEPHONE SYSTEM EQUIPMENT	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER
CROSS CONNECTS/PATCH CORDS	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GROUNDING/BONDING															
TELECOMMUNICATIONS BONDING BACKBONE (TBB)	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	N/A	N/A	DIV 26	DIV 26
TELECOMMUNICATIONS GROUNDING BUSS BAR (TGB)	DIV 26	DIV 26	DIV 26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MISC. SYSTEMS															
SYNCHRONIZED CLOCK SYSTEMS	DIV 26 OR 27	DIV 26 OR 27	DIV 26 OR 27	DIV 26 OR 27	DIV 26 OR 27	DIV 26 OR 27	DIV 26 OR 27	DIV 26 OR 27	N/A	N/A	N/A	DIV 26	DIV 26	N/A	N/A
REAL TIME LOCATING SYSTEM (RTLS)	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
DISTRIBUTED ANTENNA SYSTEMS (DAS)	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER
EMERGENCY RESPONDER RADIO COMMUNICATIONS (ERRCS)	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER
TEMPERATURE MONITORING SYSTEM	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
EMS RADIO	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	N/A

NOTES:
1. ALL SYSTEMS SHOWN MAY NOT BE PRESENT IN PROJECT. REFER TO FLOOR PLANS FOR SYSTEMS INCLUDED IN PROJECT.
2. INCLUDES CONDUIT SLEEVES, NOT TO EXCEED 18 INCHES IN LENGTH, THROUGH GYPSUM PARTITIONS. SLEEVES EXCEEDING 18" IN LENGTH SHALL BE PROVIDED BY DIV 26 CONTRACTOR.
3. INCLUDES CONDUIT PATHWAY EXCEEDING 18 INCHES IN LENGTH. INCLUDES ALL NECESSARY CONNECTIONS; PULL BOXES, AND PLASTIC BUSHINGS.
4. INCLUDES PRE-MANUFACTURED FIRE SLEEVE SYSTEMS.
5. INCLUDES REQUIRED CONDUIT STUB UP TO ABOVE ACCESSIBLE CEILING SPACE.
6. INCLUDES SLEEVES THROUGH CONCRETE/MASONRY WALLS REQUIRING CORING OR LEAVE-OUTS.
7. CROSS ROOM SOUND CABLE TERMINATED BY NURSE CALL VENDOR AT PATIENT STATION. DIV 27 CONTRACTOR SHALL TERMINATE CROSS ROOM SOUND CABLE AT TV OUTLET AND PROVIDE FACEPLATE.
8. LIGHTING CONTROL CABLE TERMINATED BY NURSE CALL VENDOR AT PATIENT STATION. NURSE CALL VENDOR SHALL PROVIDE DIV 26 CONTRACTOR LIGHTING CONTROL RELAY. DIV 26 CONTRACTOR SHALL CONNECT RELAY WITH LIGHT.
9. VOICE/DATA WORKSTATION & MEDICAL EQUIPMENT DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
   A. PCS — B. PRINTERS (NETWORK, LASER, MULTIFUNCTION, LAB, SCRIPT, ETC.) — C. FAX MACHINES
   D. COPIERS — E. TRACKER MONITORS — F. TIME CLOCK (EMPLOYEE)
   G. WIRELESS ACCESS POINTS — H. TELEPHONE SETS — I. MED DISPENSERS
   J. SCANNERS — K. LAB EQUIPMENT (STERILIZERS, ETC.) — L. POINT OF USE (POU) SCANNER
   M. ULTRA SOUND MACHINE — N. ADDITIONAL MEDICAL EQUIPMENT

ABBREVIATIONS:
- DIV 08 - DOOR HARDWARE CONTRACTOR
- DIV 26 - ELECTRICAL CONTRACTOR
- DIV 27 - COMMUNICATIONS CABLING CONTRACTOR
- DIV 28 - ELECTRONIC ACCESS CONTROL/SECURITY CONTRACTOR
- OWNER - OWNER OR OWNER'S VENDOR
- NC - NURSE CALL VENDOR
- PB - CENTURION PANIC BUTTON VENDOR
- ME - MEDICAL EQUIPMENT PLANNER
- TV - TELEVISION VENDOR
- SP - SERVICE PROVIDER
- GC - GENERAL CONTRACTOR
- PM - PHYSIOLOGICAL MONITORING VENDOR
- N/A - NOT APPLICABLE
- TEC - TELECOMMUNICATIONS EQUIPMENT ROOM / MDF
- TDR - TELECOMMUNICATIONS DISTRIBUTION ROOM / IDF

This sheet of drawings has not been reviewed for code compliance.

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Permit #: 23-2315197 LT

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WSP

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COLORADO LICENSED PROFESSIONAL ENGINEER 0050071 2/11/23

THIRD FLOOR ICU BUILD-OUT

THE MEDICAL CENTER OF AURORA
1501 South Potomac Street
Aurora, CO 80012

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