HCA - LEE'S SUMMIT MEDICAL CENTER

ED EXPANSION

2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

DGL PROJECT NO 6406.24.0003
HCA PROJECT NO. 0972400011

DATE:
2025/07/18 A B C D E

HCA DESIGN MANAGER: MIKAL MALIK
HCA CONSTRUCTION MANAGER: ERIC SJODIN

SUBMITTALS:	DATE:
CITY & STATE - 1ST REVIEW	04/18/2025
CITY - 2ND REVIEW	06/05/2025 A
DESIGN COORDINATION	06/05/2025 B
STATE HEALTH - 2ND REVIEW	07/30/2025 C
CITY - 3RD REVIEW	07/30/2025 D
DESIGN COORDINATION	07/30/2025 E

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, Az 85251
T: 602.943.8950
F: 602.943.7645

www.devenneygroup.com

HCA VENDOR INFORMATION

REMAR (TV)
DARRELL LEFTWICH, DLEFTWICH@REMARINC.COM

GE HEALTHCARE TECHNOLOGIES
TAREY ISBELL, TAREY.ISBELL@GE.COM

HILL-ROM (NURSE CALL)
SEDRIC MCQUEEN, SEDRIC.MCQUEEN@HILL-ROM.COM

STORAGE SYSTEMS (STORAGE)
CATHERINE ADKINS, CADKINS@STORAGESYSTEMSUL.COM

AMBIANCE
KATHERINE LEHMAN, KATHERINEL@AMBIANCEART.COM

OFS (FURNITURE)
CANDY MANRING, CMANRING@OFS.COM

STERIS (EXAM LIGHTS)
JOHN FLEMING, JOHN FLEMING@STERIS.COM

GE (PATIENT MONITORING)
JOEY WEST, JOSEPH.WEST@GE.COM

PHOENIX TEXTILES
SCOTT RODGERS, SRODGERS@PHOENIXTEXTILE.COM

DEVENNEY GROUP, LTD.
ARCHITECTS
ARCHITECTS
6900 E CAMELBACK RD, SUITE #500
SCOTTSDALE, AZ 85251
PROJECT MANAGER: KEVIN COOK 602.541.7287

DUDLEY C. CAMPBELL
NUMBER
A - 2021006240
DATE SIGNED: 07.30.25

WSP
MECHANICAL, PLUMBING & ELECTRICAL ENGINEERS
300 WYANDOTTE, SUITE 200
KANSAS CITY, MO 64105
PROJECT MANAGER: MINDY WHISLER 816.702.4247

INNER DESIGN STUDIO
INTERIOR DESIGNER
7103 BAKER'S BRIDGE AVE, SUITE 106
BRENTWOOD, TN 37027
PROJECT MANAGER: PAIGE CZIRR 615.321.0696

STANELY D. LINDSEY AND ASSOCIATES, LTD.
STRUCTURAL
750 OLD HICKORY BLVD, BUILDING 1 SUITE 175
BRENTWOOD, TN 37027
PRINICPAL-IN-CHARGE/PROJECT MANAGER: JASON PERRY 615.963.3727

CATALYST DESIGN GROUP
CIVIL
5100 TENNESSEE AVE
NASHVILLE, TN 37209
PRINICPAL ENGINEER: JACK PARKER 615.622.7220

JE DUNN
GENERAL CONTRACTOR
1001 LOCUST STREET
KANSAS CITY, MO 64106
PROJECT EXECUTIVE: BRADY MYERS 816.292.8619

SHEET INDEX

X = ISSUED SHEET
R = REVISED SHEET
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SHEET NUMBER	SHEET NAME	A CITY & STATE - 1ST REVIEW - 04/18/25	B CITY - 2ND REVIEW - 06/05/25	C DESIGN COORDINATION - 06/05/2025	D STATE HEALTH 2ND REVIEW - 07/30/2025	E CITY - 3RD REVIEW - 07/30/2025	E DESIGN COORDINATION - 07/30/2025
GENERAL INFORMATION							
GI000	COVER SHEET	X	R	R	R	R	R
GI001	SHEET INDEX	X	R	R	R	R	R
GI101	PROJECT INFORMATION, AREA MAPS, SYMBOLS	X	R				
CIVIL							
C0.0	COVER SHEET	X					
C1.0	EXISTING CONDITIONS	X					
C2.0	GENERAL NOTES	X					
C3.0	DEMOLITION PLAN	X		R			
C4.0	LAYOUT PLAN	X		R			
C5.0	GRADING, DRAINAGE, & UTILITY PLAN	X		R			
C5.1	DRAINAGE AREA MAP	X					
C5.2	SITE ACCESSIBILITY PLAN	X		R			
C6.0	SITE DETAILS	X		R			
C6.1	SITE DETAILS	X		R			
LANDSCAPE							
L1.0	LANDSCAPE PLAN	X		R			R
L2.0	TREE CONSERVATION PLAN	X		R			
L3.0	LANDSCAPE DETAILS	X					
STRUCTURAL							
S001	STRUCTURAL AXON VIEW	X					
S011	STRUCTURAL NOTES	X					
S012	STRUCTURAL NOTES CONTINUED	X					
S021	SPECIAL INSPECTIONS AND WIND PRESSURES DIAGRAM	X					
S101	LEVEL 1 - FOUNDATION PLAN	X		R			
S102	LEVEL 2 - ROOF FRAMING PLAN	X		R			
S201	FOUNDATION AND SLAB ON GROUND SECTION AND DETAILS	X		R			
S301	STEEL & ROOF FRAMING SECTIONS AND DETAILS	X		R			
S302	STEEL & ROOF FRAMING SECTIONS AND DETAILS	X					
ARCHITECTURAL LIFESAFETY							
AC101	LIFE SAFETY FLOOR PLAN – LEVEL 1	X	R	R	R		R
AC501	PARTITION TYPES & DETAILS	X				R	
AC521	TYPICAL MOUNTING HEIGHTS	X					
AC522	TYPICAL MOUNTING HEIGHTS	X					
AC523	TYPICAL MOUNTING HEIGHTS	X					
AC531	LISTED ASSEMBLIES & PENETRATIONS					X	
AC532	LISTED ASSEMBLIES & PENETRATIONS					X	
AC533	LISTED ASSEMBLIES & PENETRATIONS					X	
AC534	LISTED ASSEMBLIES & PENETRATIONS					X	
AC535	LISTED ASSEMBLIES & PENETRATIONS					X	
AC536	LISTED ASSEMBLIES & PENETRATIONS					X	
AC538	LISTED ASSEMBLIES & PENETRATIONS					X	
AC539	LISTED ASSEMBLIES & PENETRATIONS					X	
AC540	LISTED ASSEMBLIES & PENETRATIONS					X	
ARCHITECTURAL DEMOLITION							
AD100	DEMOLITION PLAN - LEVEL 1	X		R			
AD104	DEMOLITION PLAN - ROOF	X		R			
AD171	DEMOLITION RCP - LEVEL 1	X		R			
AD400	DEMOLITION SECTIONS	X		R			
ARCHITECTURAL SITE							
AS001	ARCHITECTURAL SITE PLAN	X					
AS002	EXTERIOR CANOPY & DOOR SIGNAGE DETAILS	X		R			
ARCHITECTURAL							
AE101	ANNOTATION FLOOR PLAN - LEVEL 1	X	R	R	R		
AE102	DIMENSION FLOOR PLAN - LEVEL 1	X	R	R	R		
AE111	OVERALL ROOF PLAN	X					R
AE141	EDGE-OF-SLAB PLAN - LEVEL 1	X					
AE181	REFLECTED CEILING PLAN - LEVEL 1	X		R	R		R
AE201	EXTERIOR BUILDING ELEVATIONS	X					
AE301	BUILDING SECTIONS	X					
AE311	EXTERIOR WALL SECTIONS	X					
AE401	ENLARGED PLANS, INTERIOR ELEVATIONS & 3D VIEWS - TRAUMA	X			R		
AE402	ENLARGED PLANS, INTERIOR ELEVATIONS & 3D VIEWS - TYPICAL EXAM ROOM	X		R			
AE403	ENLARGED PLANS, INTERIOR ELEVATIONS & 3D VIEWS - A.I.I.	X		R			
AE404	ENLARGED PLANS, INTERIOR ELEVATIONS & 3D VIEWS - NURSE STATION 'A'	X		R			
AE405	ENLARGED PLANS, INTERIOR ELEVATIONS - MEDS, SOILED, CLEAN, NOURISH	X		R			
AE406	ENLARGED PLANS, INTERIOR ELEVATIONS & 3D VIEWS - NURSE STATION 'B'	X		R			
AE407	ENLARGED PLANS, INTERIOR ELEVATIONS & 3D VIEWS - RECEPTION, SHARED OFFICE, TRIAGE	X		R			
AE408	ENLARGED PLANS, INTERIOR ELEVATIONS & 3D VIEWS - STAFF LOUNGE, NURSE WORK, EMS	X	R	R	R		
AE450	ENLARGED CANOPY PLANS, SECTIONS & DETAILS	X		R			R
AE501	EXTERIOR DETAILS	X		R			
AE531	EXTERIOR ROOF DETAILS	X					
AE532	EXTERIOR ROOF DETAILS	X		R			
AE601	DOOR SCHEDULES, DOOR & FRAME TYPES	X	R	R	R		
AE631	EXTERIOR & INTERIOR DOOR DETAILS	X					
AE651	WINDOW SCHEDULES, FRAME TYPES & DETAILS	X		R	R		R
AE701	INTERIOR DETAILS	X					
AE720	INTERIOR CEILING/ SOFFIT DETAILS	X					
AE740	CASEWORK AND MILLWORK DETAILS	X					
AE741	MILLWORK DETAILS	X					

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INTERIORS							
AF001	GENERAL FINISH SPECIFICATIONS AND NOTES	X		R	R		R
AF002	GENERAL FINISH SPECIFICATIONS AND NOTES	X		R			R
AF101	FINISH FLOOR PLAN - LEVEL 1	X		R	R		R
AF102	WALL PROTECTION PLAN - LEVEL 1	X			R		R
AF103	FLOOR PATTERN PLAN - LEVEL 1	X		R	R		R
AF104	FURNITURE PLAN - LEVEL 1	X		R			
AF105	SIGNAGE PLAN - LEVEL 1	X			R		
AF106	SIGNAGE KEY	X					
AF107	SIGNAGE KEY	X					
PLUMBING							
P00-00	GENERAL INFORMATION - PLUMBING	X	R	R			
PD02-00	DEMOLITION UNDERFLOOR PLAN - LEVEL 00 - PLUMBING	X		R			
PD02-01	DEMOLITION PLAN - LEVEL 01 - PLUMBING	X		R			
PD02-01A	DEMOLITION PLAN - LEVEL 1 ICU - PLUMBING						
PD03-01	DEMOLITION PLAN - LEVEL 01 - MEDICAL GAS	X					
P02-00	UNDERFLOOR PLAN - LEVEL 00 - PLUMBING	X		R			
P02-01	FLOOR PLAN - LEVEL 01 - PLUMBING	X		R	R		R
P02-01A	FLOOR PLAN - LEVEL 1 ICU - PLUMBING						
P02-02	FLOOR PLAN - LEVEL 02 - PLUMBING			X			
P03-01	FLOOR PLAN - LEVEL 01 - MEDICAL GAS	X					
P06-01	RISER DIAGRAM - PLUMBING	X		R			
P07-01	DETAILS - PLUMBING	X					
P08-01	SCHEDULES - PLUMBING	X		R			R
MECHANICAL							
M00-00	GENERAL INFORMATION - MECHANICAL	X					
M01-01	CONTROLS - MECHANICAL	X					
M01-02	CONTROLS - MECHANICAL	X					
MD02-01	DEMOLITION PLAN - LEVEL 01 - HVAC	X					
MD02-02	DEMOLITION PLAN - LEVEL 02 - HVAC	X					
MD03-01	DEMOLITION PLAN - LEVEL 01 - HVAC PIPING	X					
MD03-02	DEMOLITION PLAN - LEVEL 02 - HVAC PIPING	X					
M02-01	FLOOR PLAN - LEVEL 01 - HVAC	X		R	R		
M02-02	FLOOR PLAN - LEVEL 02 - HVAC	X					
M03-01	FLOOR PLAN - LEVEL 01 - HVAC PIPING	X		R			
M03-02	FLOOR PLAN - LEVEL 02 - HVAC PIPING	X					
M05-01	ENLARGED FLOOR PLANS - MECHANICAL	X					
M06-01	RISER DIAGRAM - MECHANICAL	X					
M07-01	DETAILS - MECHANICAL	X					
M07-02	DETAILS - MECHANICAL	X					
M07-03	DETAILS - MECHANICAL	X					
M07-04	DETAILS - MECHANICAL	X					
M07-05	DETAILS - MECHANICAL	X					
M08-01	SCHEDULES -MECHANICAL	X					
M08-02	SCHEDULES -MECHANICAL	X					
ELECTRICAL							
E00-00	GENERAL INFORMATION - ELECTRICAL	X					
ED02-01	DEMOLITION PLAN - LEVEL 01 - POWER	X					
ED02-02	DEMOLITION PLAN - LEVEL - 02 - POWER	X					
E02-00	FLOOR PLAN - LEVEL 01 - OVERALL	X					
E02-01	FLOOR PLAN - LEVEL 01 - POWER	X		R	R		
E02-02	FLOOR PLAN - LEVEL 02 - POWER	X					
E03-00	FLOOR PLAN - LEVEL 01 - SITE LIGHTING - PHOTOMETRICS	X					
E03-01	FLOOR PLAN - LEVEL 01 - LIGHTING	X		R	R		
E04-01	FLOOR PLAN - LEVEL 01 - SPECIAL SYSTEM	X		R	R		
E05-01	ENLARGED FLOOR PLAN	X		R	R		
E06-01	ONE LINE DIAGRAM - ELECTRICAL DEMO	X					
E06-02	ONE LINE DIAGRAM - ELECTRICAL NEW	X		R			
E06-03	ONE LINE DIAGRAM - EMERGENCY DEMO	X					
E06-04	ONE LINE DIAGRAM - EMERGENCY - NEW	X		R			
E07-01	DETAILS - ELECTRICAL	X					
E07-02	DETAILS - ELECTRICAL	X					
E08-01	SCHEDULES - ELECTRICAL	X		R			
E08-02	SCHEDULES - ELECTRICAL	X					
E08-03	SCHEDULES - ELECTRICAL	X					
TECHNOLOGY							
T00-00	GENERAL INFORMATION - TECHNOLOGY	X		R			
TD02-01	DEMOLITION PLAN - LEVEL 01 - COMMUNICATIONS	X		R			
T02-01	FLOOR PLAN - LEVEL 01 - COMMUNICATIONS	X					
T03-01	FLOOR PLAN - LEVEL 01 - LOW VOLTAGE	X		R			
T04-01	FLOOR PLAN - LEVEL 01 - SECURITY	X		R			R
T05-01	ENLARGED FLOOR PLAN - TECHNOLOGY	X		R			
T06-01	RISER DIAGRAM - TECHNOLOGY	X					
T07-01	DETAILS - TECHNOLOGY	X					
T07-02	DETAILS - TECHNOLOGY	X					
T07-03	DETAILS - TECHNOLOGY	X					
T07-04	DETAILS - TECHNOLOGY	X					
T07-05	DETAILS - TECHNOLOGY	X					
T08-01	SCHEDULES - TECHNOLOGY	X					
VENDOR - STORAGE SOLUTIONS - FOR REFERENCE ONLY							
SS-1	STORAGE SYSTEM LAYOUT	X					
SS-2	ELEVATIONS	X					

Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

STATE OF MISSOURI
DUDLEY G. CAMPBELL
NUMBER A-2021019540

DATE SIGNED: 07.30.25

IF THESE PLANS DO NOT BEAR THE SEAL OF A REGISTRANT, THEY ARE TO BE CONSIDERED "PRELIMINARY" AND ARE NOT TO BE USED FOR CONSTRUCTION OR RECORDING. THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION AS AN "ARCHITECTURAL WORK" UNDER SEC. 102 OF THE COPYRIGHT ACT, 17 U.S.O. AS AMENDED DECEMBER 1990 AND KNOWN AS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. THE PROTECTION INCLUDES BUT IS NOT LIMITED TO THE OVERALL FORM AS WELL AS THE ARRANGEMENT AND COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNDER SUCH PROTECTION, UNAUTHORIZED USE OF THESE PLANS CAN LEGALLY RESULT IN THE CESSATION OF CONSTRUCTION OR BUILDINGS BEING SEIZED AND/OR MONETARY COMPENSATION TO DEVENNEY GROUP LTD.

ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
A	CITY - 2ND REVIEW	2025/06/05
B	DESIGN COORDINATION	2025/06/05
C	STATE - 2ND REVIEW	2025/07/30
D	CITY - 3RD REVIEW	2025/07/30
E	DESIGN COORDINATION	2025/07/30

DATE:	2025/04/18
SCALE:	
DRAWN:	LL
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

SHEET INDEX

GI001

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

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PLANT SCHEDULE

CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
TREES					
APB	1	Acer palmatum 'Bloodgood' / Bloodgood Japanese Maple	#30	1.5"	8-10`
CCF	3	Cercis canadensis `Forest Pansy` TM / Forest Pansy Redbud	B&B	1.5"	7-8`
CCR	3	Cercis canadensis 'JN2' TM / The Rising Sun Eastern Redbud	B&B	1.5"	7-8`
JCB	1	Juniperus chinensis 'Blue Point' / Blue Point Juniper	B&B/Cont.		8`
LSR	2	Liquidambar styraciflua `Rotundiloba` TM / Round-Lobed Sweet Gum	B&B	2.5"	12-14`
QP	1	Quercus phellos / Willow Oak	B&B	2.5"	12-14`
SHRUBS					
IVL	6	Itea virginica `Little Henry` TM / Virginia Sweetspire	#3		15-18"
JB2	36	Juniperus conferta `Blue Pacific` / Blue Pacific Juniper	#1		12-15"
PVN	59	Panicum virgatum 'Northwind' / Northwind Switch Grass	#1		15-18"
TD	5	Taxus x media `Densiformis` / Dense Yew	#5		24"

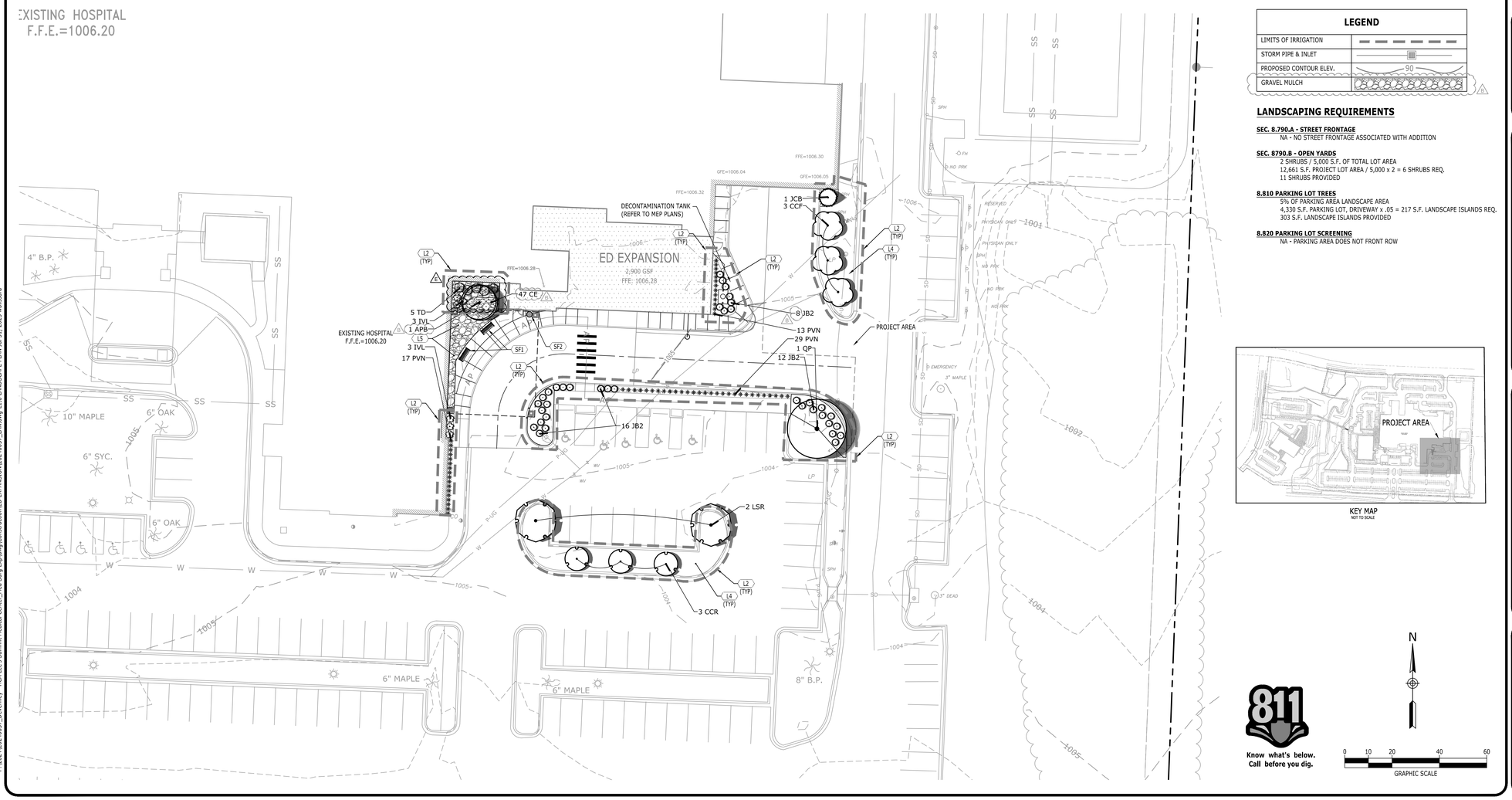
CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	SPACING
GROUND COVERS / PERENNIALS						
CE	47	Carex oshimensis `Everillo` / Everillo Japanese Sedge	#1		12"	16" o.c.

LANDSCAPE KEYNOTES

CODE	DESCRIPTION	DET #/SHT #
L1	PLANTING BED LIMITS	1 / L2.0
L2	IRRIGATION LIMITS	NOTES / L2.0
L3	AREA TO BE SEEDED	SPECS
L4	AREA TO BE SODDED	SPECS
L5	AREA TO BE GRAVEL MULCH	5 / L3.0

SITE FURNISHINGS KEYNOTES

CODE	DESCRIPTION	MANUFACTURER / MODEL
SF1	BENCH	LANDSCAPE FORMS / PFG BENCH - BACKED
SF2	TRASH RECEPTACLE	1 EXISTING TO BE RELOCATED; SEE C3.0



LEGEND

LIMITS OF IRRIGATION	
STORM PIPE & INLET	
PROPOSED CONTOUR ELEV.	90
GRAVEL MULCH	

LANDSCAPING REQUIREMENTS

SEC. 8.790.A - STREET FRONTAGE
NA - NO STREET FRONTAGE ASSOCIATED WITH ADDITION

SEC. 8790.B - OPEN YARDS
2 SHRUBS / 5,000 S.F. OF TOTAL LOT AREA
12,661 S.F. PROJECT LOT AREA / 5,000 x 2 = 6 SHRUBS REQ.
11 SHRUBS PROVIDED

8.810 PARKING LOT TREES
5% OF PARKING AREA LANDSCAPE AREA
4,330 S.F. PARKING LOT, DRIVEWAY x .05 = 217 S.F. LANDSCAPE ISLANDS REQ.
303 S.F. LANDSCAPE ISLANDS PROVIDED

8.820 PARKING LOT SCREENING
NA - PARKING AREA DOES NOT FRONT ROW

KEY MAP
NOT TO SCALE

Know what's below.
Call before you dig.

N

0 10 20 40 60
GRAPHIC SCALE

P:\20241\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\ED EXPANSION\20240037_LAN.dwg>L1.0 LANDSCAPE PLAN Jul 31, 2025 wblissard

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

Catalyst DESIGN GROUP
1524 WILLIAMS DRIVE, SUITE 201, MURFREESBORO, TN 37129
(615) 622-7200 | WWW.CATALYST-DG.COM

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FINAL DEVELOPMENT PLAN

HCA LEE'S SUMMIT MEDICAL CENTER

2000 SE SHENANDOAH DRIVE
LEE'S SUMMIT, MO, 64063
JACKSON COUNTY

LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
816-282-5000

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION	07/30/2025
2	DESIGN COORDINATION	06/05/2025

DRAWING TITLE
LANDSCAPE PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
L1.0

ED EXPANSION

HCA - LEE'S SUMMIT
MEDICAL CENTER
2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05
E	DESIGN COORDINATION	2025/07/30

DATE:	2025/04/10
SCALE:	1:20
DRAWN:	AP
REVIEWED:	JP
JOB NUMBER:	6406.24

LANDSCAPE PLAN

L1.0

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EXIT ACCESSS TRAVEL DISTANCE - LEVEL 1

PER IBC 1016.1 THE MAX LENGTH OF EXIT ACCESS TRAVEL SHALL NOT EXCEED 200FT (I-2 OCCUPANCY)

PATH NAME	DISTANCE
LEVEL 1	
BARIATRIC EXAM	123'-10"
EXAM 21	103'-4"
STAFF LOUNGE	122'-9"
WAITING	99'-9"

EXIT DOOR SCHEDULE

MINIMUM EGRESS WIDTH REQUIRED IS THE GREATER WIDTH CALCULATED PER IBC SECTION 1005.3 AND 1010.1.1. AND MINIMUM EGRESS WIDTH PROVIDED ASSUMES LEAF THICKNESS OF 2", INCLUDING HINGES

DOOR #	EXIT DESCRIPTION	OCC. LOAD	WIDTH REQUIRED	WIDTH PROVIDED
LEVEL 1				
(E) 1-1476B	@ EXISTING STAIR 4	69	32"	40"
1-1400	@ EMERGENCY DEPT. ENT.	69	32"	116 1/2"

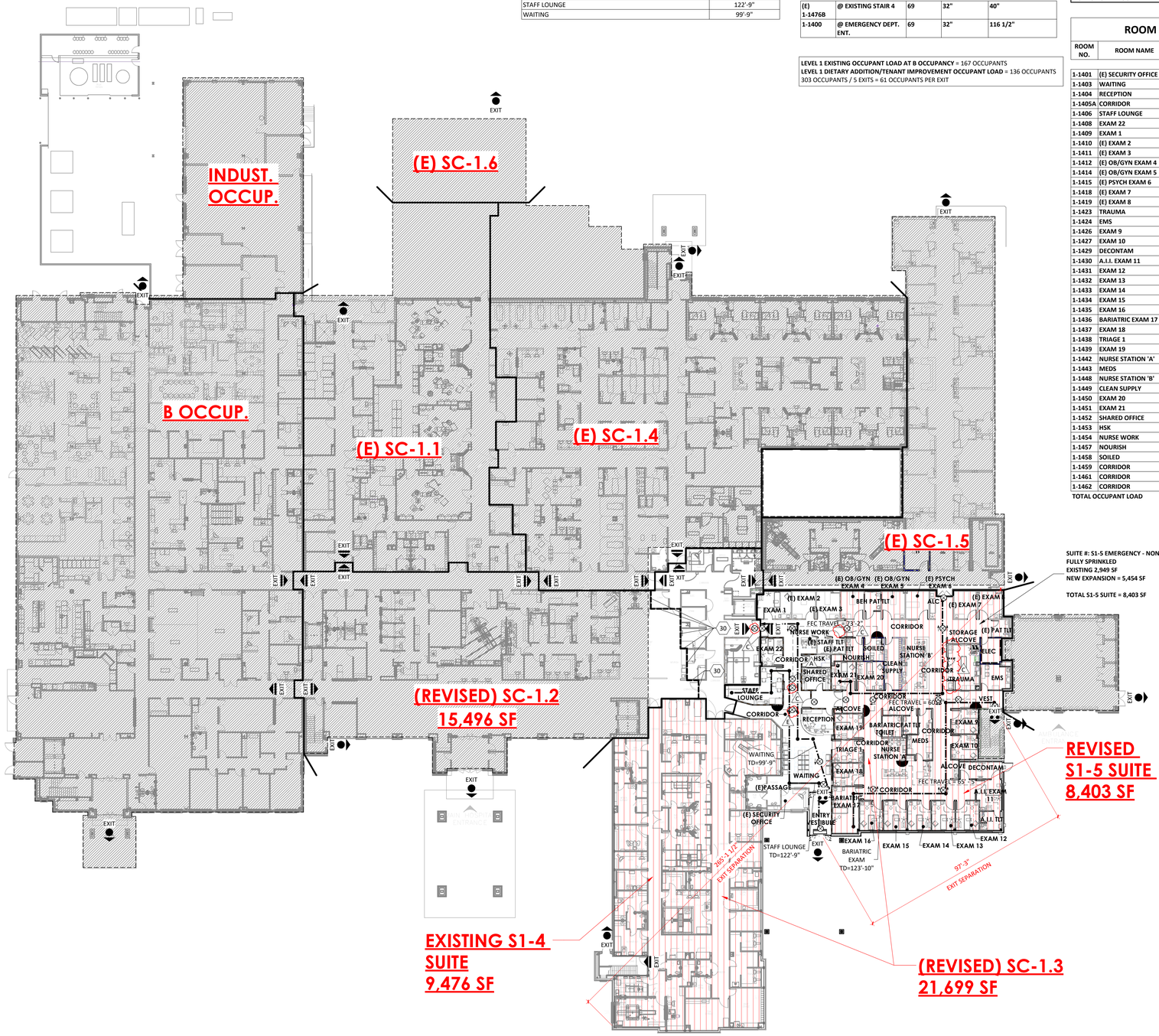
LEVEL 1 EXISTING OCCUPANT LOAD AT B OCCUPANCY = 167 OCCUPANTS
LEVEL 1 DIETARY ADDITION/TENANT IMPROVEMENT OCCUPANT LOAD = 136 OCCUPANTS
303 OCCUPANTS / 5 EXITS = 61 OCCUPANTS PER EXIT

MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

FUNCTION OF SPACE	ID	LOAD FACTOR	COMMENT
ACCESSORY STORAGE AREAS	S	300 SF	GROSS
ASSEMBLY W/O FIXED SEATS - TABLES & CHAIRS (WAITING)	AT	15 SF	NET
BUSINESS AREA (OFFICE)	B	150 SF	GROSS
INSTITUTIONAL - OUTPATIENT AREA	IO	100 SF	GROSS

ROOM OCCUPANCY - LEVEL 1

ROOM NO.	ROOM NAME	AREA	OCC ID	LOAD FACTOR	OCCUPANT LOAD
1-1401	(E) SECURITY OFFICE	117 SF	B	150 SF	1
1-1403	WAITING	558 SF	AT	15 SF	38
1-1404	RECEPTION	155 SF	IO	100 SF	2
1-1405A	CORRIDOR	144 SF			
1-1406	STAFF LOUNGE	288 SF	AT	15 SF	20
1-1408	EXAM 22	126 SF	IO	100 SF	2
1-1409	EXAM 1	184 SF	IO	100 SF	2
1-1410	(E) EXAM 2	133 SF	IO	100 SF	2
1-1411	(E) EXAM 3	128 SF	IO	100 SF	2
1-1412	(E) OB/GYN EXAM 4	131 SF	IO	100 SF	2
1-1414	(E) OB/GYN EXAM 5	131 SF	IO	100 SF	2
1-1415	(E) PSYCH EXAM 6	133 SF	IO	100 SF	2
1-1418	(E) EXAM 7	132 SF	IO	100 SF	2
1-1419	(E) EXAM 8	127 SF	IO	100 SF	2
1-1423	TRAUMA	261 SF	IO	100 SF	3
1-1424	EMS	147 SF	AT	15 SF	10
1-1426	EXAM 9	138 SF	IO	100 SF	2
1-1427	EXAM 10	134 SF	IO	100 SF	2
1-1429	DECONTAM	148 SF	S	300 SF	1
1-1430	A.I.I. EXAM 11	153 SF	IO	100 SF	2
1-1431	EXAM 12	140 SF	IO	100 SF	2
1-1432	EXAM 13	140 SF	IO	100 SF	2
1-1433	EXAM 14	140 SF	IO	100 SF	2
1-1434	EXAM 15	140 SF	IO	100 SF	2
1-1435	EXAM 16	140 SF	IO	100 SF	2
1-1436	BARIATRIC EXAM 17	266 SF	IO	100 SF	3
1-1437	EXAM 18	138 SF	IO	100 SF	2
1-1438	TRIAGE 1	143 SF	IO	100 SF	2
1-1439	EXAM 19	147 SF	IO	100 SF	2
1-1442	NURSE STATION 'A'	310 SF	IO	100 SF	4
1-1443	MEDS	190 SF	IO	100 SF	2
1-1448	NURSE STATION 'B'	282 SF	IO	100 SF	3
1-1449	CLEAN SUPPLY	178 SF	S	300 SF	1
1-1450	EXAM 20	156 SF	IO	100 SF	2
1-1451	EXAM 21	139 SF	IO	100 SF	2
1-1452	SHARED OFFICE	130 SF	B	150 SF	1
1-1453	HSK	71 SF	S	300 SF	1
1-1454	NURSE WORK	53 SF	IO	100 SF	1
1-1457	NOURISH	83 SF	IO	100 SF	1
1-1458	SOILED	89 SF	S	300 SF	1
1-1459	CORRIDOR	110 SF			
1-1461	CORRIDOR	129 SF			
1-1462	CORRIDOR	306 SF			
TOTAL OCCUPANT LOAD					137



LIFE SAFETY LEGEND

- EXIT
- EXIT ACCESS DOORWAY
- HORIZONTAL EXIT/SMOKE COMPARTMENT EXIT
- TRAVEL DISTANCE
- INDICATES SMOKE COMPARTMENT SEPARATIONS (NEW PARTITIONS TO BE CONSTRUCTED PER THE PARTITION TYPES & DETAILS SHEETS)
- FEC — FIRE EXTINGUISHER CABINET. PROVIDE FIRE EXTINGUISHERS THROUGHOUT THE PROJECT SO THAT OCCUPANTS ARE WITHIN A 75'-0" TRAVEL DISTANCE. REFER TO IFC TABLE 906.3(1)
- FE — SURFACE MOUNTED FIRE EXTINGUISHER
- ILLUMINATED EXIT SIGN

MEANS OF EGRESS GENERAL NOTES

THE FOLLOWING MINIMUM CLEAR WIDTHS OF EGRESS COMPONENTS SHALL BE MET OR EXCEEDED.

COMPONENT	MINIMUM CLEAR WIDTH
DOORS:	
MEANS OF EGRESS	32 INCHES
MEANS OF EGRESS IN I-2 OCCUPANCY USED FOR MOVEMENT OF BEDS	41 1/2 INCHES
STAIRWAYS:	
GENERAL	44 INCHES
AISLES:	36 INCHES
CORRIDORS, RAMPS, AND EXIT PASSAGEWAYS:	
50 OCCUPANTS OR GREATER	44 INCHES
LESS THAN 50 OCCUPANTS	36 INCHES
WHERE REQUIRED FOR BED MOVEMENT	96 INCHES
OUTPATIENT GURNEY TRAFFIC	72 INCHES

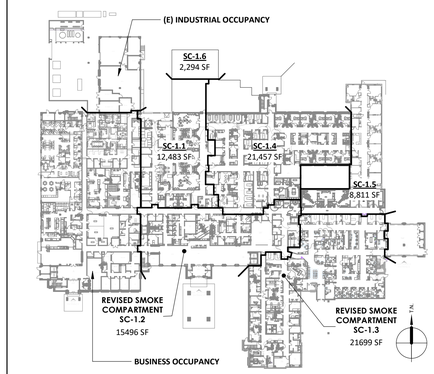
GRAPHIC LEGEND

- LIMITS OF CONSTRUCTION (SHADE INDICATES AREA OUTSIDE OF SCOPE)
- HATCH INDICATES SUITE (NON SLEEPING)

KEYNOTE LEGEND

KEY	NOTE
30	DASHED LINE REPRESENTS RATED WALLS NO LONGER REQUIRED DUE TO THE DECOMMISSIONING OF THE EXISTING SMOKE COMPARTMENT WALL THAT IS NO LONGER NEEDED.

SMOKE COMPARTMENT PLAN



1 LIFE SAFETY FLOOR PLAN - LEVEL 1
3/64" = 1'-0"

Devenney GROUP
Devenney Group Ltd., Architects
6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251
T: 602.943.8950
www.devenneygroup.com

Consultant:

STATE OF MISSOURI
DUDLEY G. CAMPBELL
NUMBER A-2021019543
DATE SIGNED: 07.30.25

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
A	CITY - 2ND REVIEW	2025/06/05
B	DESIGN COORDINATION	2025/06/05
C	STATE - 2ND REVIEW	2025/07/30
E	DESIGN COORDINATION	2025/07/30

DATE:	2025/04/18
SCALE:	As indicated
DRAWN:	JV, LL
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

LIFE SAFETY FLOOR PLAN – LEVEL 1

AC101

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

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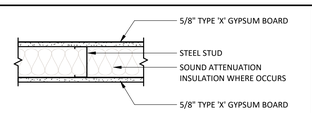
SUMMARY OF REQUIRED FIRE PROTECTION ASSEMBLIES

NOTE: NOT ALL UL LISTED DETAILS MAY APPLY TO THIS SCOPE OF WORK.

CATEGORY	FUNCTION	DESCRIPTION	REQUIRED RATING	TYPE OF PROTECTION	BASIS OF DESIGN PRODUCT	LISTED DETAIL	NOTES
PRIMARY STRUCTURAL FRAME	INTERIOR FRAMING	STEEL COLUMN BEAM / GIRDER SUPPORTS	**2-HOUR**	GYPSUM BASED SPRAY-APPLIED FIRE RESISTIVE MATERIAL	CAFCO 300	**UL DESIGN X790**	SEE "LISTED DETAILS" SHEETS FOR FULL DETAIL DESCRIPTION
	4TH FLOOR DECK FRAMING	STEEL GIRDERS / BEAMS / JOISTS SUPPORTING STEEL FLOOR DECKING	**2-HOUR**	GYPSUM BASED SPRAY-APPLIED FIRE RESISTIVE MATERIAL	CAFCO 300	**UL DESIGN D982**	SEE "LISTED DETAILS" SHEETS FOR FULL DETAIL DESCRIPTION
	ROOF DECK FRAMING	STEEL GIRDERS / BEAMS / JOISTS SUPPORTING STEEL ROOF DECKING	**1-HOUR**	GYPSUM BASED SPRAY-APPLIED FIRE RESISTIVE MATERIAL	CAFCO 300	**UL DESIGN P723**	SEE "LISTED DETAILS" SHEETS FOR FULL DETAIL DESCRIPTION
FLOOR & ROOF CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS	4TH FLOOR DECK	COMPOSITE FLUTED STEEL & CONCRETE FLOOR DECK	**2-HOUR**	MATERIAL ASSEMBLY EQUIVALENCY / INHERENT RATING	N/A	**UL DESIGN D982**	SEE "LISTED DETAILS" SHEETS FOR FULL DETAIL DESCRIPTION
	ROOF DECK	LIGHTWEIGHT INSULATION CONCRETE OVER FLUTED STEEL ROOF DECKING	**1-HOUR**	GYPSUM BASED SPRAY-APPLIED FIRE RESISTIVE MATERIAL	VARIES - SEE UL DETAIL	**UL DESIGN P921**	SEE "LISTED DETAILS" SHEETS FOR FULL DETAIL DESCRIPTION
PARTITIONS	SEPARATION OF ACCESSORY USE AREAS PER NFPA	RATED PARTITIONS	**1-HOUR**	GYPSUM BOARD / STEEL STUD ASSEMBLY	US GYPSUM PRODUCTS	**UL DESIGN U419**	SEE "LISTED DETAILS" SHEETS FOR FULL DETAIL DESCRIPTION
	OCCUPANCY SEPARATION	RATED PARTITIONS	**2-HOUR**	GYPSUM BOARD / STEEL STUD ASSEMBLY	US GYPSUM PRODUCTS	**UL DESIGN U419**	SEE "LISTED DETAILS" SHEETS FOR FULL DETAIL DESCRIPTION
	OCCUPANCY SEPARATION	RATED PARTITIONS	**2-HOUR**	GYPSUM BOARD / STEEL STUD ASSEMBLY	US GYPSUM PRODUCTS	**UL DESIGN U419**	SEE "LISTED DETAILS" SHEETS FOR FULL DETAIL DESCRIPTION
	STAIR & ELEVATOR SHAFTS	RATED SHAFT WALLS	**2-HOUR**	GYPSUM BOARD / STEEL STUD ASSEMBLY	US GYPSUM PRODUCTS	**UL DESIGN U469**	SEE "LISTED DETAILS" SHEETS FOR FULL DETAIL DESCRIPTION
	MECHANICAL SHAFTS	RATED SHAFT WALLS	**2-HOUR**	GYPSUM BOARD / STEEL STUD ASSEMBLY	US GYPSUM PRODUCTS	**UL DESIGN U469**	SEE "LISTED DETAILS" SHEETS FOR FULL DETAIL DESCRIPTION
JOINTS	INTERIOR STUD PARTITION HEAD TERMINATION @ RATED DECK	RATED WALL JOINT	**1-HOUR & 2-HOUR**	FIRE RESISTIVE JOINT MATERIAL ASSEMBLY FOR STUD ASSEMBLIES	US GYPSUM PRODUCTS	**UL DESIGN HW-D-0160**	SEE "LISTED DETAILS" SHEETS FOR FULL DETAIL DESCRIPTION
	INTERIOR SHAFT STUD WALL HEAD / SILL TERMINATIION	RATED WALL JOINT	**1-HOUR & 2-HOUR**	FIRE RESISTIVE JOINT MATERIAL ASSEMBLY FOR STUD ASSEMBLIES	US GYPSUM PRODUCTS	**UL DESIGN HW-D-0646**	SEE "LISTED DETAILS" SHEETS FOR FULL DETAIL DESCRIPTION
	PENETRATION OF RATED STUD PARTITIONS BY STRUCTURAL FRAMING MEMBERS	RATED PENETRATION JOINT	**1-HOUR & 2-HOUR**	FIRE RESISTIVE JOINT MATERIALS FOR STUD ASSEMBLIES	VARIES - SEE UL DETAIL	**UL DESIGN HW-D-0218**	SEE "LISTED DETAILS" SHEETS FOR FULL DETAIL DESCRIPTION
	EDGE OF 4TH FLOOR SLAB AT CURTAIN WALLS	RATED SLAB EDGE JOINT	**2-HOUR**	FIRE RESISTIVE JOINT MATERIAL ASSEMBLY FOR DISSIMILAR MATERIALS	VARIES - SEE UL DETAIL	**UL DESIGN CW-D-2042**	SEE "LISTED DETAILS" SHEETS FOR FULL DETAIL DESCRIPTION
	INTERIOR RATED EXPANSION JOINT AT SMOKE BARRIER WALLS	RATED EXPANSION JOINT	**1-HOUR**	FIRE RESISTIVE JOINT MATERIAL ASSEMBLY FOR GYPSUM BOARD	**FIRELINE S20**	**GUARDIAN LISTING: FS20-2IM-2/26W**	SEE "LISTED DETAILS" SHEETS FOR FULL DETAIL DESCRIPTION
PENETRATIONS	RATED PARTITION PENETRATIONS FOR MECHANICAL, PLUMBING, OR ELECTRICAL ITEMS	VARIOUS PENETRATIONS THROUGH RATED PARTITIONS AS REQUIRED	**1-HOUR & 2-HOUR**	FIRE RESISTIVE JOINT MATERIAL / ASSEMBLY	VARIES	**UL DESIGN HW-D-0098 UL DESIGN W-L-1001 UL DESIGN W-L-1146 UL DESIGN W-L-1166 UL DESIGN W-L-3194 UL DESIGN W-L-3195 UL DESIGN W-L-3289 UL DESIGN W-L-4037 UL DESIGN W-L-5168 UL DESIGN W-L-5039 UL DESIGN W-L-5147 UL DESIGN W-L-7019 UL DESIGN W-L-7063**	SEE "LISTED DETAILS" SHEETS FOR FULL DETAIL DESCRIPTION
	RATED DECK PENETRATIONS FOR MECHANICAL, PLUMBING, OR ELECTRICAL ITEMS	VARIOUS PENETRATIONS THROUGH RATED DECKING AS REQUIRED	**1-HOUR**	FIRE RESISTIVE JOINT MATERIAL / ASSEMBLY	VARIES	**UL DESIGN C-AJ-1044 UL DESIGN C-AJ-1429 UL DESIGN C-AJ-5119 UL DESIGN C-AJ-4056 UL DESIGN C-AJ-5156 UL DESIGN C-AJ-5001 UL DESIGN C-AJ-5183 UL DESIGN C-AJ-6041 UL DESIGN C-AJ-5210 UL DESIGN C-AJ-7076 UL DESIGN C-AJ-7081**	SEE "LISTED DETAILS" SHEETS FOR FULL DETAIL DESCRIPTION

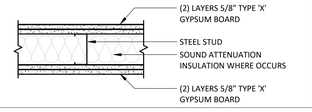
A



PARTITION TYPE	STUD WIDTH
A1	1 1/2"
A2	2 1/2"
A3	3 5/8"
A4	4"
A6	6"
A8	8"

MODIFIERS:
1. - 25 GAUGE STEEL STUDS AT 24" O.C. W/ 3" SOUND ATTENUATION FIRE BLANKETS IN CAVITY AND (1) LAYER. EXTEND GYP BOARD ON BOTH SIDES UP TO DECK ABOVE WITH ACOUSTICAL SEALANT AT TOP AND BOTTOM OF WALL.
2. PARTIAL HEIGHT, SEE PLAN FOR TOP OF PARTITION ELEVATION.

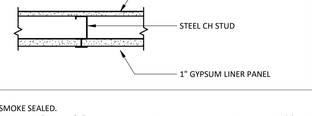
B



PARTITION TYPE	STUD WIDTH
B1	1 1/2"
B2	2 1/2"
B3	3 5/8"
B4	4"
B6	6"
B8	8"

MODIFIERS:
1. - 25 GAUGE STEEL STUDS AT 24" O.C. W/ 3" SOUND ATTENUATION FIRE BLANKETS IN CAVITY AND (1) LAYER. EXTEND GYP BOARD ON BOTH SIDES UP TO DECK ABOVE WITH ACOUSTICAL SEALANT AT TOP AND BOTTOM OF WALL.

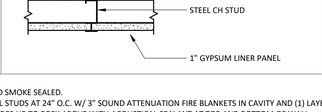
D



PARTITION TYPE	STUD WIDTH
D2	2 1/2"
D4	4"
D6	6"

MODIFIERS:
1. - GYPSUM BOARD SMOKE SEALED.
2. - 25 GAUGE STEEL STUDS AT 24" O.C. W/ 3" SOUND ATTENUATION FIRE BLANKETS IN CAVITY AND (1) LAYER. EXTEND GYP BOARD ON BOTH SIDES UP TO DECK ABOVE WITH ACOUSTICAL SEALANT AT TOP AND BOTTOM OF WALL.

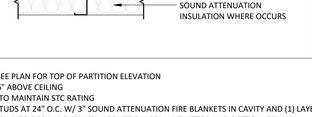
E



PARTITION TYPE	STUD WIDTH
E2	2 1/2"
E4	4"
E6	6"

MODIFIERS:
1. - GYPSUM BOARD SMOKE SEALED.
2. - 25 GAUGE STEEL STUDS AT 24" O.C. W/ 3" SOUND ATTENUATION FIRE BLANKETS IN CAVITY AND (1) LAYER. EXTEND GYP BOARD ON BOTH SIDES UP TO DECK ABOVE WITH ACOUSTICAL SEALANT AT TOP AND BOTTOM OF WALL.

F



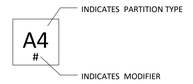
PARTITION TYPE	STUD WIDTH
F1	1 1/2"
F2	2 1/2"
F3	3 5/8"
F4	4"
F6	6"
F8	8"

MODIFIERS:
1. - PARTIAL HEIGHT SEE PLAN FOR TOP OF PARTITION ELEVATION
2. - GYPSUM BOARD 6" ABOVE CEILING
3. - EXTEND TO DECK TO MAINTAIN STC RATING
4. - 25 GAUGE STEEL STUDS AT 24" O.C. W/ 3" SOUND ATTENUATION FIRE BLANKETS IN CAVITY AND (1) LAYER. EXTEND GYP BOARD ON BOTH SIDES UP TO DECK ABOVE WITH ACOUSTICAL SEALANT AT TOP AND BOTTOM OF WALL.

PARTITIONS GENERAL NOTES

1. ALL PARTITIONS TO EXTEND TO DECK ABOVE UNLESS NOTED OTHERWISE.
2. BRACE PARTITION TO STRUCTURE ABOVE.
3. PROVIDE MOISTURE RESISTANT GYPSUM BOARD (OR CEMENT BOARD) AT WALL TILE LOCATIONS IN LIEU OF STANDARD GYPSUM BOARD.
4. PROVIDE STEEL STUD SILL AND HEADER AT ALL INTERIOR PARTITION PENETRATIONS FOR CONDUIT AND CABLE TRAYS AS REQUIRED.
5. PROVIDE FIRE BATTS AND FIRE SAFING AND SEALANT ASSEMBLIES AT ALL PENETRATIONS THROUGH RATED PARTITIONS AS REQUIRED.
6. FOR STC RATINGS SEE STC PLANS. PROVIDE CONTINUOUS ACOUSTICAL SEALANT AT THE BOTTOM TRACK AND AT TOP TRACK WHERE PARTITION EXTENDS TO DECK.
7. STUD DEPTHS, HEIGHTS AND LIMITS TO BE ENGINEERED BY THE STUD DESIGN ENGINEER.
8. PARTITIONS SHOWN IN GRAY INDICATE PRE-FABRICATED ASSEMBLY BY VENDOR.

PARTITIONS LEGEND



Devenney GROUP

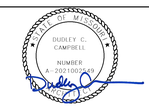
Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:



DATE SIGNED: 07.30.25

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ED EXPANSION

HCA - LEE'S SUMMIT
MEDICAL CENTER
2100 SE BLUE PKWY LEE'S
SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
D	CITY - 3RD REVIEW	2025/07/30

DATE:	2025/04/18
SCALE:	1 1/2" = 1'-0"
DRAWN:	LL
REVIEWED:	
JOB NUMBER:	6406.24.0003

PARTITION TYPES & DETAILS

AC501

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UL Product **iQ**™

BXUV.X790 - FIRE-RESISTANCE RATINGS - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

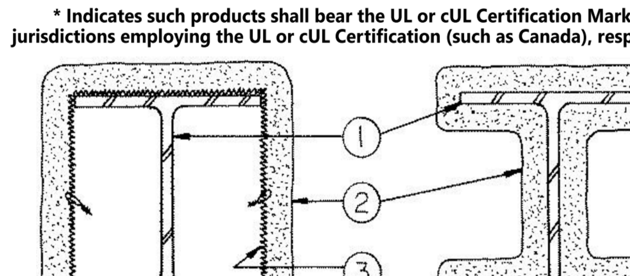
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

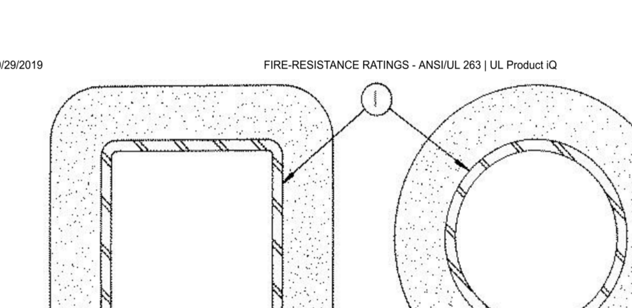
Design No. X790

October 09, 2019

Ratings — 1, 1-1/2, 2, 3 and 4 Hr.

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





1. **Steel Column, Steel Pipe or Steel Tube —** Wide flange steel column (W) or steel circular pipe (SP) or steel square or rectangular tube (ST), min sizes as shown in the tables below.

2. **Spray-Applied Fire Resistive Materials* —** Applied by mixing with water and spraying in one or more coats to the thicknesses shown below, to steel surfaces which are clean and free of dirt, loose scale, and oil. Min average and min individual density of 15 and 14 pcf, for Types 300, 300AC, 300ES, 300HS, 300N, 3000, 3000ES and SB. For Types 400AC and 400ES min average and min individual density of 22 and 19 pcf, respectively. Min avg density of 44 pcf with min ind value of 40 pcf for Types M-II and TG. Min avg density of 47 pcf, with min individual value of 43 pcf for Type M-II/P. For method of density determination, see Design Information Section, Sprayed Material.
The min thickness of Spray-Applied Fire Resistive Materials required for various fire resistance ratings of contour sprayed or boxed wide flange columns are shown in the table below:

Column Size	W/D	Min Thkns In. 1 Hr	1-1/2 Hr	2 Hr	3 Hr	4 Hr
W6x9	0.33	15/16	1-1/4	1-9/16	2-1/8	2-11/16
W6x12	0.43	13/16	1-1/8	1-7/16	2	2-9/16
W6x16	0.57	11/16	1	1-5/16	1-7/8	2-3/8
W8x28	0.68	5/8	15/16	1-1/4	1-13/16	2-5/16
W10x49	0.83	9/16	13/16	1-1/8	1-5/8	2-1/8
W12x106	1.46	3/8	9/16	13/16	1-1/4	1-11/16
W14x233	2.52	1/4	3/8	1/2	7/8	1-3/16
W14x730	6.68	1/4	1/4	1/4	3/8	1/2

As an alternate to the above table, the required thickness of Spray-Applied Fire Resistive Materials to be applied to all surfaces of the steel columns for all rating periods may be determined from the following equations:

$$h = \frac{R}{75\,(W/D) + 32}$$

(for column W/D range of 0.33 to 2.51)

$$h = \frac{R}{75\,(W/D) + 15}$$

(for column W/D range of 2.51 to 6.68)

Where:

h = Spray-Applied Fire Resistive Materials thickness in the range of 1/4 to 4-1/2 in. (rounded up to the nearest 1/16 in.)

R = Fire resistance rating period in minutes (60-240 mins.)

D = Heated perimeter of the steel column in inches.

W = Weight of the steel column in lbs per foot.

The thicknesses contained in the table below are applicable when the Spray-Applied Fire Resistive Materials applied to the column's flange tips are reduced to one-half that shown in the table below (for contour application):

Column Size In.	Min Thkns In. 1 Hr	1-1/2 Hr	2 Hr	3 Hr	4 Hr
W6x9	1	1-3/8	1-3/4	2-7/16	3-1/8
W6x12	7/8	1-1/4	1-5/8	2-5/16	3-1/16
W6x16	3/4	1-1/8	1-7/16	2-1/16	2-11/16
W8x28	11/16	1	1-5/16	1-15/16	2-1/2
W10x49	5/8	15/16	1-3/16	1-3/4	2-3/8
W12x106	3/8	5/8	7/8	1-3/8	1-13/16
W14x233	5/16	3/8	9/16	15/16	1-5/16
W14x730	5/16	5/16	5/16	7/16	5/8

The min thickness of Spray-Applied Fire Resistive Materials required for various fire resistance ratings of contour sprayed steel pipes or tubes are shown on the table below:

Min Column Size In.	A/P	1 Hr	1-1/2 Hr	Min Thkns In. 2 Hr	3 Hr	4 Hr
SP 4x0.237	0.22	11/16	1	1-3/8	2-1/16	2-3/4
ST 4x4x0.1875	0.18	3/4	1-1/16	1-7/16	2-1/16	2-11/16
ST 4x4x0.3125	0.29	1/2	13/16	1-1/8	1-3/4	2-5/16
ST 4x4x0.375	0.34	7/16	3/4	1	1-9/16	2-1/8
ST 4x4x0.5	0.44	3/8	9/16	7/8	1-3/8	1-7/8
ST20x20x0.75 in	0.72	5/16	1/2	11/16	1-1/16	1-7/16
ST20x20x1 in.	0.95	1/4	3/8	1/2	13/16	1-1/8
ST20x20x1.5 in.	1.39	1/4	1/4	3/8	5/8	13/16
ST20x20x1.75 in.	1.60	1/4	1/4	3/8	1/2	3/4
ST32x32x1.25 in.	1.20	1/4	5/16	7/16	11/16	15/16

ST 36x24x0.5	0.49	5/16	7/16	11/16	1-1/8	1-9/16

As an alternate to the table above, the required thickness of Spray-Applied Fire Resistive Materials to be applied to all surfaces of the steel pipes or tubes for all rating periods may be determined from the following equation:

$$h = \frac{R}{188\,(A/P) + 45}$$

Where:

h = Spray-Applied Fire Resistive Materials thickness in the range of 5/16 to 4-1/4 in. (rounded up to the nearest 1/16 in.)

R = Fire resistance rating in minutes (60-240 mins.)

A = Cross-sectional area of pipe or tube.

P = Heated perimeter of steel pipe or tube.

A/P = 0.18 to 0.49.

The A/P ratio of a circular pipe is determined by:

$$A/P = \frac{t\,(d - t)}{d}$$

Where:

d = the outer diameter of the pipe (in.)

t = the wall thickness of the pipe (in.)

The A/P ratio of a rectangular tube is determined by:

$$A/P = \frac{t\,(a + b - 2t)}{a + b}$$

Where:

a = the outer width of the tube (in.)

b = the outer length of the tube (in.)

t = the wall thickness of the tube (in.)

BERLIN CO LTD — Types 300, 300ES, 300N, SB, M-II, TG and M-II/P.

GREENTECH ASIA PACIFIC SDN BDH — Types 300, 300ES, 300HS, M-II, or M-II/P

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Types 300, 300AC, 400AC, M-II, TG and M-II/P.

ISOLATEK INTERNATIONAL — Type 300, 300AC, 300ES, 300HS, 300N, 400AC, 400ES, SB, 3000, 3000ES, M-II, TG and M-II/P.

NEWKEM PRODUCTS CORP — Types 300, 300ES, 300N, SB, M-II, TG and M-II/P

2A. **(As an alternate to Item 2) Spray-Applied Fire Resistive Materials* —** Applied by mixing with water and spraying in one or more coats to the thicknesses shown below, to steel surfaces which are clean and free of dirt, loose scale, and oil. Min average and min individual density of 17.5 and 16 pcf, respectively, for Type 300TW. Min average and min individual density of 22 and 19 pcf, respectively, for Type 400. For method of density determination, see Design Information Section, Sprayed Material.
The min thickness of Spray-Applied Fire Resistive Materials required for various fire resistance ratings is shown in Item 2.

BERLIN CO LTD — Type 400.

GREENTECH ASIA PACIFIC SDN BDH — Type 400

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Type 400.

ISOLATEK INTERNATIONAL — Type 300TW or Type 400.

NEWKEM PRODUCTS CORP — Type 400.

2B. **(As an alternate to Item 2 and 2A) — Spray-Applied Fire Resistive Materials* —** Prepared by mixing with water according to instructions on each bag of mixture and spray- or trowel-applied to steel surfaces which are free of dirt, oil or scale. Min average density of 17.5 pcf with min individual value of 17.0 pcf. For method of density determination, see Design Information Section, Sprayed Material.
The min thickness of Spray-Applied Fire Resistive Materials required for various fire resistance ratings is shown in Item 2.

ISOLATEK INTERNATIONAL — Type 280.

3. **Metal Lath —** (Optional for contour application) — 3.4 lb/sq yd galv or painted expanded steel lath. Lath shall be lapped 1 in. and tied together with No. 18 SWG galv steel wire spaced vertically 6 in. OC.

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

Last Updated on 2019-10-09

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- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. D982

July 8, 2022

Restrained Assembly Rating - 2 Hr.
Unrestrained Assembly Rating - 2 Hr.
Unrestrained Beam Rating - 1 Hr.
Loading Determined by Allowable Stress Design Method
or Load and Resistance Factor Design Method
published by the American Institute of Steel Construction,
or in accordance with the relevant Limit State Design provisions
of Part 4 of the National Building Code of Canada
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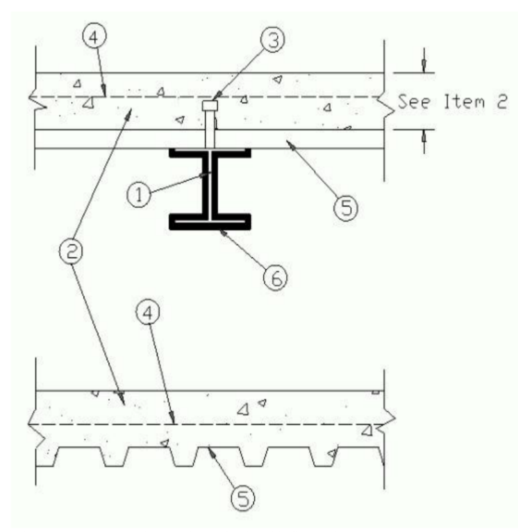

1. **Beam —** W6X15 min. size. Joists shall not be substituted for the wide flanged beam.

2. **Normal Weight or Lightweight Concrete —** Compressive strength 3500 psi. Normal weight concrete, carbonate or siliceous aggregate, 150 ± 3 pcf unit weight. Min. thickness 4-1/2 inches. Lightweight concrete, expanded shale, clay or slate aggregate by rotary-kiln method, 110 +/- 3 pcf unit weight. Min. thickness 3-1/4 inches.

3. **Shear Connectors (optional) —** Studs, max. 3/4 in. diam, headed type or equivalent, designed in accordance with the specification of the American Institute of Steel Construction. Welded to top flange of beam through steel floor or form units.

4. **Welded Wire Fabric —** 6 by 6 — W1.4 x W1.4.

5. **Steel Floor and Form Units* —** Composite or non-composite. Min. 1-1/2 in. deep, max 3 in. deep, galv or phosphatized/painted fluted units. Min gauge 22 MSG. Welded to supports approx 12 in. OC. Total live and dead load shall not exceed 200 psf.
See CHWX or CHWX7 for list of Certified companies.

VICWEST INC. — Types HBS938, HBS938CL and HBS938CL-IN Composite Steel Decks; Types RDS938, RDS938CL and RDS938CL-IN Non-Composite Steel Decks.

6. **Spray-Applied Fire Resistive Materials* —** Applied by mixing with water and spraying in one or more coats to steel beam surfaces which are free of dirt, loose scale and oil. Application shall be in accordance manufacturer's instructions and applicable UL Design. Coating thickness shall be sufficient to provide a 1 hr Unrestrained Beam Rating on the size of wide flanged beam utilized. See D900, N700 and N800 series designs for specific coatings and coating thickness requirements. When selecting a design, note the wide flanged beams size and the design's capacity for heat dissipation. Refer to BXUV guide information for additional information regarding beam substitution and thickness adjustments.
See CHPX or CHPX7 for list of Certified companies.

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

Last Updated on 2022-07-08

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- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. P723

July 28, 2025

Restrained Assembly Ratings — 1, 1-1/2, 2 and 3 Hr
(See Items 3 and 8)
Unrestrained Assembly Ratings — 1, 1-1/2, 2 and 3 Hr
(See Items 3 and 8)
Unrestrained Beam Ratings — 1, 1-1/2, 2 and 3 Hr.
(See Items 3 and 8)
Restricted Load Condition — See Item 8
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

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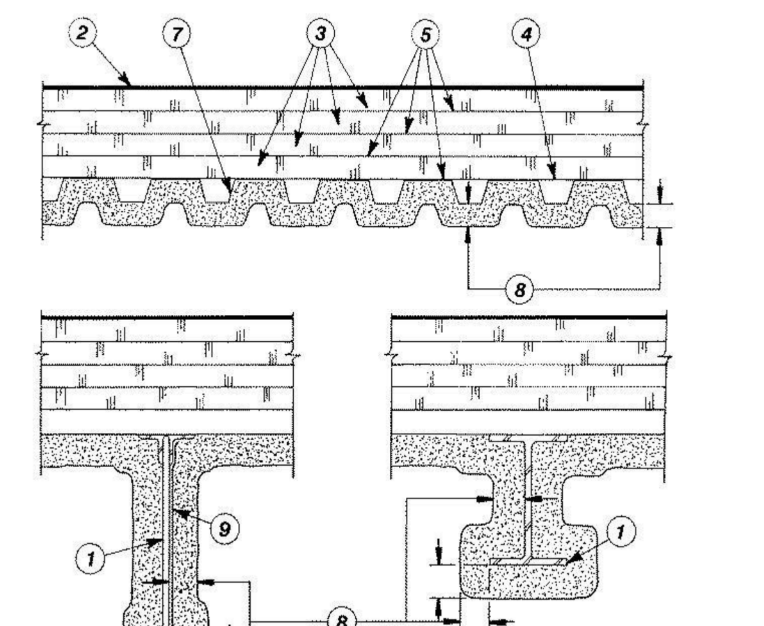

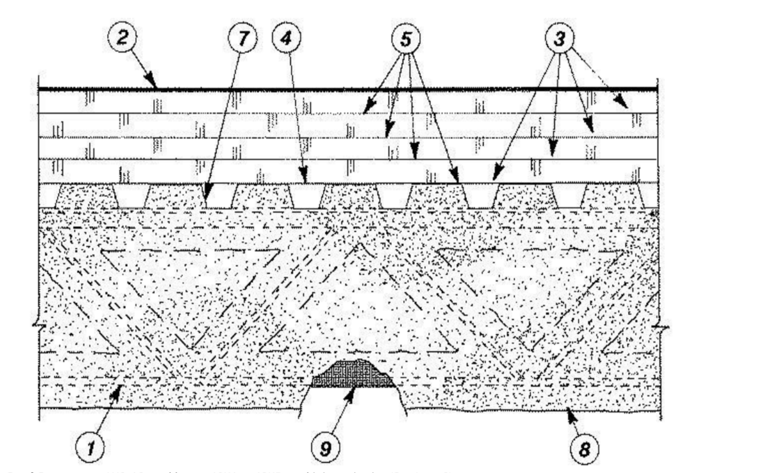

1. **Steel Supports —** W6x16 steel beam, 10K1 or 12K5 steel joists min size (See Item 8).

2. **Roof Covering —** Consisting of hot mopped or cold application bituminous materials compatible with the insulation(s) described herein which provide Class A, B or C coverings. See Roofing Materials and Systems Directory-Roof Covering Materials (TEVT).

2A. **In lieu of Item 2, roof covering consisting of single-ply Roofing Membranes* —** that is either ballasted, adhered or mechanically attached as permitted under the respective manufacturer's Classification. See Roofing Membranes (CHCI) category for names of manufacturers.

2B. **Metal Roof Deck Panels —** (Not Shown) — In addition to or in lieu of items 2 or 2A, the Roof Covering may consist of mechanically fastened metal roof deck panel assembly. See Fire Resistance Directory — Metal Roof Deck Panels (CETW).

3. **Roof Insulation — Foamed Plastics* —** 36 by 48 in. (min size) polyisocyanurate foamed plastic insulation boards applied in one or more layers. Min thickness is 2.0 in. (No limit on max overall thickness.) Boards to be installed with end joints staggered a min of 6 in. in adjacent rows. When applied in more than one layer, each layer to be offset in both directions from layer below a min of 6 in. in order to lap all joints. Polyisocyanurate foamed plastic insulation may be installed over a max 1 in. thick layer of Mineral and Fiber Boards* (Item 3B) with each layer offset in both directions as described above.
ATLAS ROOFING CORP — ACFoam II, Tapered ACFoam II, ACFoam II NH, Tapered ACFoam II NH, ACFoam III, ACFoam III NH, Tapered ACFoam III NH, ACFoam IV, ACFoam Supreme, ACFoam Supreme NH, AC Foam Recover Board, ACFoam Recover Board NH

MULE-HIDE PRODUCTS CO INC — POLY ISO 2, POLY ISO 2 CG, POLY ISO 2 CG Tapered.

CARLISLE SYNTEC SYSTEMS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types HP, HP-H, HP-N, HP-W, SecurShield CD, InsulBase NH, SecurShield NH, SecurShield HD Composite NH, Polyiso HP-F NH, InsulBase RL, SecurShield RL, Polyiso HP-F, SecurShield HD Composite RL.

DOW ROOFING SYSTEMS L L C — "Dow Termico Polyisocyanurate Insulation", "Dow Termico ISO 3000 Insulation", "Dow Termico ISO HP-FR".

Holcim Solutions and Products US, LLC — "ISO 95+ GL", "ISO 95+ FK", "ISO 95+ CAN", "ISO 95+ GL NH", "ISOGARD HD Composite Board", "RESISTA", "ISOGARD GL", "ISOGARD CG".

GAF — EnergyGuard™ RA

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — H Shield, H-Shield-F, H-Shield-CG, H-Shield-C, H-Shield Premier, H-Shield HD Composite, H-Shield HD Composite CG, H-Shield RL, H-Shield CG RL, H-Shield HD Composite CG RL, H Shield NH, H-Shield-F NH, H-Shield-CG NH, H-Shield-C NH, H-Shield Premier NH, H-Shield HD Composite CG NH.

MULE-HIDE PRODUCTS CO INC — Poly ISO 1, Tapered Poly ISO 1, Poly ISO 1-DWD, Tapered Poly ISO 1-DWD, Poly ISO 1-HD, Poly ISO 1-HD90, Poly ISO 1-HD-Composite

JOHNS MANVILLE — ENRGY 3 25 psi, ENRGY 3, Tapered ENRGY 3, Tapered ENRGY 3 25 psi, ENRGY 3 AGF, Tapered ENRGY 3 AGF, ENRGY 3 25 psi AGF, Tapered ENRGY 3 25 psi AGF, ENRGY 3 CGF, Tapered ENRGY 3 CGF, ENRGY 3 25 psi CGF, Tapered ENRGY 3 25 psi CGF, ISO-3, Tapered ISO-3, ValuTherm, Tapered ValuTherm, ValuTherm 25 psi, Tapered ValuTherm 25 psi, ValuTherm AGF, Tapered ValuTherm AGF, ValuTherm 25 psi AGF, Tapered ValuTherm 25 psi AGF, ValuTherm CGF, Tapered ValuTherm CGF, ValuTherm 25 psi CGF, Tapered ValuTherm 25 psi CGF.

IB ROOF SYSTEMS — IB Energy Board II-J, IB Energy Board II Taper-J, IB Energy Board III-J, IB Energy Board III Taper-J.

BEACON SALES ACQUISITION, INC — TRI-BUILT ISO VT, TRI-BUILT ISO VT 25 PSI, TRI-BUILT ISO VT CGF, TRI-BUILT ISO VT CGF 25 PSI.

KINGSPAN ROOFING & WATERPROOFING LLC — Kingspan ISO GF, Kingspan ISO GF Tapered, Kingspan ISO CG, Kingspan ISO CG Tapered.

MARTIN FIREPROOFING CORP — "Perform-A-Deck I"

POLYGLASS USA INC — Polytherm H, Polytherm CG, Polytherm HD Composite CG

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Multi-Max-3, Multi-Max FA-3, Ultra-Max, Ultra-Max Plus, Tapered Ultra-Max Plus, Tapered Thermaroof-3, Tapered Thermaroof FA-3, Tapered Ultra-Max.

SIKA SARNAFIL INC — Sarnatherm-R Insulation, Sarnatherm-R CG Insulation, Sarnatherm-R Tapered Insulation, Sarnatherm-R CG Tapered Insulation.

SOPREMA INC — Sopra-ISO s, Sopra-ISO s Tapered, Sopra-ISO+ s, Sopra-ISO+ s Tapered, Sopra-ISO H+ s, Sopra-ISO H+ s Tapered.

VERSICO INC — SecurShield HD Composite, WeatherBond XFP HD Composite, VersiCore NH, WeatherBond XP NH Polyiso, SecurShield NH, WeatherBond XFP NH Polyiso, VersiCore RL, SecurShield RL, Polyiso F NH, WeatherBond XP-F NH, SecurShield HD Composite RL

3A. **Roof Insulation — Mineral and Fiber Boards* —** (Not Shown) For 1, 1-1/2 and 2 h Ratings— As an alternate to Item 3. To be applied in one or more layers with or without adhesive applied between vapor barrier and roof deck units, vapor barrier and board and each layer of board. When more than one layer is required, each layer of board to be offset in both directions from layer below a min of 6 in. in order to lap all joints. Min thickness is 2 in. when Item 2A is used. When installed as a base layer for Item 3 (polyisocyanurate roof insulation) max thickness is 1 in.
GAF — GAFTEMP Perlite.

JOHNS MANVILLE – Types Fesco, Retro-Fit, RetroPlus

3B. **Building Units* —** (Not Shown) — As an alternate to Items 3 and 3A. Polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in., faced on the top surface with oriented strand board or plywood. For the building units, min thickness (as measured at core) of the polyisocyanurate foamed plastic insulation is 2.0 in. (No limit on max thickness). Building units to be installed with end joints staggered a min 6 in. in adjacent rows.

ATLAS ROOFING CORP — ACFoam Nail Base Insulation, ACFoam Nail Base Insulation NH, Vented-R, ACFoam CrossVent, ACFoam CrossVent NH, ACFoam III Nail Base Insulation, ACFoam III Nail Base Insulation NH, ACFoam III CrossVent, ACFoam III CrossVent NH

MULE-HIDE PRODUCTS CO INC — POLY ISO 2 NB, POLY ISO 2 CG NB

Holcim Solutions and Products US, LLC — Hailgard, "ISOGARD HG".

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — H-Shield-NB, H-Shield-NB NH

JOHNS MANVILLE — Nailboard.

SOPREMA INC — Sopra-ISO CV s.

3C. **Building Units* —** As an alternate to Items 3 through 3B, polyisocyanurate foamed plastic insulation boards faced on the underside with wood fiber board. Min thickness of the polyisocyanurate core is 2.0 in. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.
Holcim Solutions and Products US, LLC — "ISO 95+ Wood Fiberboard Composite".

JOHNS MANVILLE — ENRGY 2 Plus.

3D. **Building Units* —** As an alternate to Items 3 through 3C, polyisocyanurate foamed plastic insulation boards faced on the underside (or both sides) with mineral fiber board. Min thickness of the polyisocyanurate core is 2.0 in. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.
Holcim Solutions and Products US, LLC — "ISO 95+ Composite".

JOHNS MANVILLE — Fesco-Foam.

3E. **Building Units* —** Not Shown — As an alternate to Items 3 and 3D, composite polyisocyanurate foamed plastic insulation board with an adhered nailing surface, nom 48 by 48 or 96 in. may be used with the following limitations. These composite building units have ventilation slots internal to the panels. The thickness of the panel depends upon the thinnest portion of the polyisocyanurate insulation. The following dimensions apply to the polyisocyanurate insulation, min 2 in. thick. May be installed over a max 1 in. thick layer of mineral and fiber boards (Item 3B) with joints offset a min of 6 in., in each direction. There is no limit on the max insulation thickness.
JOHNS MANVILLE — Type ISO-VENT.

3F. **Building units* —** As an alternate to Items 3 through 3E, polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in., faced on the top surface with gypsum board. Min thickness of the polyisocyanurate core is 2.0 in. No limit on overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.
JOHNS MANVILLE — ENRGY 2 Gypsum Composite.

3G. **Foamed Plastic* —** Optional - (Not Shown) - Used in addition to the foam insulation required to achieve fire rating:

3Ga. **Foamed Plastic* —** Optional - (Not Shown) - Maximum 1 in. thick polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in. Boards may be applied as the top layer in addition to the specified minimum thickness of any roofing system described herein, as long as the roofing system states that there is no limit on maximum thickness. Joints offset in both directions from layer below.
Holcim Solutions and Products US, LLC — "ISOGARD HD".

3Gb. **Foamed Plastic* —** Optional — (Not Shown) — Maximum 5/8 inch thick polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in. Boards may be applied as the top layer in addition to the specified minimum thickness of any roofing system described herein, as long as the roofing system states that there is no limit on maximum thickness. Joints offset in both directions from layer below.

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Ultra-Max HD"

SIKA SARNAFIL INC — Sarnatherm Roof Board-R

3Gc. **Foamed Plastic* —** Optional — (Not Shown) — Maximum 1/2 inch thick polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in. Boards may be applied as the top layer in addition to the specified minimum thickness of any roofing system described herein, as long as the roofing system states that there is no limit on maximum thickness. Joints offset in both directions from layer below.
CARLISLE SYNTEC SYSTEMS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — SecurShield HD, SecurShield HD Plus, SecurShield HD NH, SecurShield HD Plus NH, SecurShield HD RL

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — H-Shield HD, H-Shield HD90, H-Shield HD RL, H-Shield HD NH, H-Shield HD90 NH

POLYGLASS USA INC — Polytherm HD

VERSICO INC — SecurShield HD Plus, WeatherBond XFP HD Plus, SecurShield HD NH, WeatherBond XFP HD NH, SecurShield HD Plus NH, WeatherBond XFP HD Plus NH, SecurShield HD RL

3Gd. **Foamed Plastic* —** Optional — (Not Shown) — Maximum 1 inch thick polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in. Boards may be applied as the top layer in addition to the specified minimum thickness of any roofing system described herein, as long as the roofing system states that there is no limit on maximum thickness. Joints offset in both directions from layer below.
ATLAS ROOFING CORP — ACFoam HD CoverBoard and ACFoam CoverBoard FR

MULE-HIDE PRODUCTS CO INC — POLY ISO 2 HD and POLY ISO 2 HD FR

3Ge. **Foamed Plastic* —** (Optional — Not Shown) — Maximum 1 in. thick polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in. Boards may be applied as the top layer in addition to the specified minimum thickness of any roofing system described herein, as long as the roofing system states that there is no limit on maximum thickness. Joints offset in both directions from layer below.

JOHNS MANVILLE – Types ProtectoR HD, SeparatoR CGF, Invinsa

IB ROOF SYSTEMS — IB Recovery Energy Board III-J, IB HD ISO-J

KINGSPAN ROOFING & WATERPROOFING LLC — Kingspan ISO HD CG Cover Board

3H. **Building Units* —** (Not Shown) — As an alternate to Item 3. Polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in., faced on the top surface with wood fiber board. For the building units, min thickness (as measured at core) of the polyisocyanurate foamed plastic insulation is 2.0 in. (No limit on max thickness). Building units to be installed with end joints staggered a min 6 in. in adjacent rows.
CARLISLE SYNTEC SYSTEMS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Polyiso HP-H Composite NH

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — H-Shield-WF, H-Shield-WF NH

VERSICO INC — MP-HWF NH, WeatherBond XP-WF NH

3I. **Building Units* —** (Not Shown) — As an alternate to Item 3. Polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in., faced on the top surface with perlite composite board. For the building units, min thickness (as measured at core) of the polyisocyanurate foamed plastic insulation is 2.0 in. (No limit on max thickness). Building units to be installed with end joints staggered a min 6 in. in adjacent rows.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — H-Shield-P, H-Shield-RP, H-Shield-P NH, H-Shield-RP NH

3J. **Building Units* —** (Not Shown) — As an alternate to Item 3. Polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in., faced on the top surface with glass mat faced gypsum panel. For the building units, min thickness (as measured at core) of the polyisocyanurate foamed plastic insulation is 2.0 in. (No limit on max thickness). Building units to be installed with end joints staggered a min 6 in. in adjacent rows.
CARLISLE SYNTEC SYSTEMS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Polyiso HP-HDD, Polyiso HP-HDD NH

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — H-Shield-DD, H-Shield-DD NH

VERSICO INC — MP-HDD, MP-HDD NH

3K. **Foamed Plastic* — As an alternate to Items 3 through 3F —** Polyurethane foamed plastic roof insulation. Formed by the simultaneous spraying of two liquid components applied over the gypsum wallboard (item 3L) in accordance with the manufacturer's instructions. Minimum nominal thickness is 2.0 in. with no maximum thickness.
BASF CORP — Types FE348-2.5, FE348-2.8, FE348-3.0, ELASTOSPRAY 81255, ELASTOSPRAY 81285, ELASTOSPRAY 81305, SKYTITE C1

BASF CORP — Elastospray 5100-2.0, Elastospray 5100-2.5, Elastospray 81302, Elastospray 81272, Elastospray Alpha System, Elastospray 81252.

3L. **Gypsum Board —** (Classified or unclassified) — For use with Item 3K. Supplied in sheets nom 2 by 4 ft to 4 by 12 ft, by nom 5/8 in. thick. Min weight 2.0 psf. Applied perpendicular to steel roof deck or direction with adhesive or laid loosely. End joints to occur over crests of steel roof deck with end joints staggered 2 ft in adjacent rows.
See **Gypsum Board** (CKNX) category for names of manufacturers.

3M. **Mineral and Fiber Board* —** (Optional — Not Shown) — Used in addition to the foam insulation required to achieve fire rating. Maximum 1 in. thick mineral and fiber insulation boards, nom 48 by 48 or 96 in. Boards may be applied as the top layer in addition to the specified minimum thickness of any roofing system described herein, as long as the roofing system states that there is no limit on maximum thickness. Joints offset in both directions from layer below.

JOHNS MANVILLE — Fesco, Retro-fit, RetroPlus, DuraBoard (1/2"), DuraBoard (3/4"), DuraBoard (1"), Fesco HD

4. **Vapor Retarder — Sheathing Material* —** (Optional) — Vinyl film or paper scrim vapor barrier, applied to steel roof deck with adhesive (Item 5), asphalt (Item 5A) or laid loosely, overlapped approx 2 in. on adjacent sheets. See Sheathing Materials (CHIZ) category for names of manufacturers.

4A. **Sheathing Material* —** (Optional) — In lieu of Item 4, a self adhered rubberized asphalt roofing underlayment membrane which may be placed on top of the steel roof deck (Item 7).
GCP APPLIED TECHNOLOGIES INC — Grace Ice and Water Shield, Grace VYCOR Ice & Water Shield, Grace Ice and Water Shield-HT®, Grace VYCOR Ice and Water Shield-HT®, Grace Select, Grace VYCOR Select Grace Ultra, Grace VYCOR Ultra and Grace Basik.

4B. **Sheathing Material* —** (Optional) — In lieu of Item 4 and 4A, a self adhered rubberized asphalt roofing underlayment membrane which may be placed on top of the steel roof deck (Item 7).

CERTAINTEED LLC — WinterGuard Pro

5. **Adhesive* —** (Optional) — May be applied between crests of steel roof deck and vapor retarder, between vapor retarder and first layer of insulation, and between layers of insulation. Applied in 1/2 in. wide ribbons 6 in. OC at 0.4 gal/100 sq ft. See Adhesives (BYWR) category for names of manufacturers.

5A. **Asphalt Or Coal Tar Pitch* —** (Optional — Not Shown) — In lieu of Item 5, used to attach the first layer of insulation to vapor retarder and each additional layer of roof insulation. Applied at a max rate of 25 lbs/100 sq ft.

5B. **Adhesive* -(Optional) —** (Bearing the UL Classification Marking for Roof Systems (TGFU)) - When FAST 100 adhesive is used, the Unrestrained Assembly Ratings are limited to 1, 1-1/2 and 2 hr. The vapor retarder, the gypsum wallboard or the first layer of roof insulation may be secured with adhesive to the steel crest surfaces. Also used to attach the vapor retarder to gypsum wallboard, the first layer of insulation to vapor retarder or gypsum wallboard and each additional layer of insulation. Applied at a max rate of 19.8 g/ft^2. When FAST 100 adhesive is used, additional **Spray-Applied Fire Resistance Materials* (CHPX)** is required on the deck for the 1-1/2 and 2 hr Unrestrained Assembly Ratings. The thickness specified for the deck shall be increased by 1/16 in. for 1-1/2 hr Unrestrained Assembly Rating and 1/4 in. for 2 hr Unrestrained Assembly Rating.
CARLISLE SYNTEC SYSTEMS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — FAST 100.

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

STATE OF MISSOURI
DUDLEY C. CAMPBELL
NUMBER A-2021002549
ARCHITECT

DATE SIGNED: 07.30.25

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
D	CITY - 3RD REVIEW	2025/07/30

DATE:	2025/04/18
SCALE:	
DRAWN:	JV
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

LISTED ASSEMBLIES & PENETRATIONS

8/6/2025 2:16:35 PM Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/6406.24.0003 HCA - LSMC ED Expansion_R23.rvt

AC531

D

6. **Mechanical Fasteners —** (Optional — Not Shown) — Mechanical screw-type fastener with metal washer designed for the purpose may be used to attach one or more layers of insulation to steel roof deck.

7. **Steel Roof Deck — (Unclassified)** — Min 1-1/2 in. deep and 30 or 36 in. wide galv fluted steel deck. Flutes 6 in. OC with crest width ranging from 3-5/8 to 5-1/16 in. Min gauge is 22 MSG. Ends overlapped at supports min 1-1/2 in. and welded to supports at deck laps and a max of 12 in. OC between sides of units. Side laps of adjacent units welded, button-punched or secured together with No. 12 by 3/4 in. long self-drilling, self-tapping steel screws spaced a max of 36 in. OC. **Classified Steel Floor and Form Units* —** Noncomposite, 1-1/2 in. deep, galv units, min gauge is 22 MSG. Ends overlapped at supports min 1-1/2 in. and welded to supports at deck laps and a max of 12 in. OC between sides of units. Side laps of adjacent units welded, button-punched or secured together with No. 12 by 3/4 in. long self-drilling, self-tapping steel screws spaced a max of 36 in. OC.
ASC STEEL DECK, DIV OF ASC PROFILES L L C — Types BH-36, BHN-36, BHN-35-1/4, DGB-36, B-36, BN-36, BN-35-1/4, DGN-32, N-32, NN-32, 2WH-36, 2WHS-36, 3WxH-36, 3WH-36. All units may be galvanized or Prime Shield™. Non-cellular decks may be vented designated with a "V" suffix to the product name.

CANAM GROUP INC — Type P-3606 or P-3615; 36 in. wide Types 1.5B, 1.5BI; 24 in. wide Types 3N, 3NI, 3NW, 3NWI.

CANAM STEEL CORP — Types B, NS, NS32 and NS32-XS. Units may be ptd/ptd.

INTSEL STEEL EAST LLC — 36 in. wide Type 1.5" B-DECK/ROOF, 24 in. wide Type N-DECK/ROOF.

NEW MILLENNIUM BUILDING SYSTEMS L L C — Type B, BD, BI, F, FD, N, ND, NW32 and NW32I. Units may be phos/painted or galvanized.

STEEL MASTERS INTERNATIONAL DEPENDABLE STEEL — 36 in. wide Types 2WH-36, 3WH-36. Units may be phos/painted or galvanized.

VERCO DECKING INC - A NUCOR CO — Deck types PLB, HSB, PLN3, HSN3, PLN, N; FORMLOK™ deck types PLB, B, PLN3, N3, PLN, N, PLW2, W2, PLW3, W3. Units may be galvanized or phos./ptd. Deck may be vented or non-vented.

VULCRAFT, DIV OF NUCOR CORP — Types 1.5F, 1.5B, 1.5BI, 1.5PLB, 3N, 3NI, 3.0 PLN, 3NL-32, 3NI-32, 3PLN-32; ptd/ptd units may be used for ratings up to 2 hr; Types BW, N. Type BW may be ptd/ptd.

8. **Spray-Applied Fire Resistive Materials* —** Applied by mixing with water and spraying in more than one coat to the thickness shown below, to steel surfaces which are clean and free of dirt, loose scale, and oil. Min average and min individual density of 15 and 14 pcf, respectively, for Types 300, 300AC, 300ES, 300HS, 300N, 3000, 3000ES and SB. For Types 400AC and 400ES min average and min individual density of 22 and 19 pcf, respectively. Min avg density of 44 pcf with min ind value of 40 pcf for Types M-II and TG. Min avg density of 47 pcf, with min individual value of 43 pcf for Type M-II/P. For method of density determination, see Design Information Section, Sprayed Material. Spray-Applied Fire Resistive Materials on steel deck shall cover screw tips by 1/2 in. min. Use of adhesive (Item 11) is required.
The min thicknesses of Spray-Applied Fire Resistive Materials required for various fire resistance ratings are shown in the table below:

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Protection Mtl Thkns In. on Deck#	on Beam	on Joist
1	1	1	7/8	7/16	3/4
1	1	1	1-7/16+	7/16	3/4
1-1/2	1-1/2	1-1/2	1-3/16	9/16	1-3/16
1-1/2	1-1/2	1-1/2	2+	9/16	1-3/16
2	1	1	1-7/16	11/16	1-3/16
2	1-1/2	1-1/2	1-7/16	11/16	1-3/16
2	2	2	1-7/16	13/16	1-3/16
2	2	2	2-5/8+	13/16	1-3/16
3	1-1/2	1-1/2	1-7/16	1-3/16	1-5/8
					(1-1/2**)
3	2	2	1-7/8	1-3/16	1-5/8
					(1-1/2**)
3	3	3	1-7/8	1-1/4	1-5/8
					(1-1/2**)

The required minimum thickness of Spray-Applied Fire Resistive Materials on the steel deck is increased by 1/16 in. for 1-1/2 hr Unrestrained Assembly Rating and 1/4 in. for 2 hr Unrestrained Assembly Rating when Item 5B is used.

+ No minimum insulation thickness required.

** The 1-1/2 in. thickness may be applied when minimum size joist is 12K5.

BERLIN CO LTD — Types 300, 300ES, 300N, SB, M-II, TG and M-II/P.

GREENTECH ASIA PACIFIC SDN BDH — Types 300, 300ES, M-II, or M-II/P.

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Types 300, 300AC, 400AC, M-II, TG and M-II/P.

ISOLATEK INTERNATIONAL — Types 300, 300AC, 300ES, 300HS, 300N, SB, 400AC, 400ES, 3000, 3000ES, M-II, TG and M-II/P.

NEWKEM PRODUCTS CORP — Types 300, 300ES, 300N, SB, M-II, TG and M-II/P.

8A. **(As an alternate to Item 8) Spray-Applied Fire Resistive Materials* —** Applied by mixing with water and spraying in more than one coat to the thickness shown below, to steel surfaces which are clean and free of dirt, loose scale, and oil. Min average and min individual density of 17.5 and 16 pcf, respectively, for Types 300TW, . Min average and min individual density of 22 and 19 pcf, respectively, for Type 400. For method of density determination, see Design Information Section, Sprayed Material. Spray-Applied Fire Resistive Materials on steel deck shall cover screw tips by 1/2 in. min. Use of adhesive (Item 11) is required.
GREENTECH ASIA PACIFIC SDN BDH — Type 400.

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Type 400.

ISOLATEK INTERNATIONAL — Type 300TW, Type 400.

NEWKEM PRODUCTS CORP — Type 400.

8B. **Sprayed Fiber Insulation* —** (Optional, Not Shown) — Spray applied fiber insulation, Classified to Surface Burning Characteristics (BNST), having a maximum applied density of 3.5 pcf, applied over Spray-Applied Fire Resistive Material (Item 8) on both steel floor and form units (Item 7) and supports (Item 1). Sprayed fiber insulation may be over Spray-Applied Fire Resistive Material (Item 8) according to the following tables:

Allowable Spray-Applied Fiber Insulation Thickness Over Steel Deck

Installed SFRM Thickness (in.) on Deck	SFRM Density (pcf)				
	15	17.5	22	44	47
1/2	8	8	8	8	8
3/4	8	8	8	8	8
13/16	8	8	8	8	8
15/16	8	8	8	8	8
1-1/16	7-3/4	8	8	8	8
1-1/8	7-1/2	8	8	8	8
1-1/2	5-7/8	6-7/8	8	8	8
1-11/16	5-1/16	5-15/16	7-7/16	8	8

Allowable Spray-Applied Fiber Insulation Thickness Over Beam

Installed SFRM Thickness (in.) on Beam	SFRM Density (pcf)				
	15	17.5	22	44	47
7/16	3-3/4	4-3/8	5-1/2	8	8
9/16	3-3/16	3-3/4	4-11/16	8	8
13/16	2-1/8	2-1/2	3-1/8	8	8
1-1/4	1/4	5/16	3/8	3-1/8	3-3/8

Allowable Spray-Applied Fiber Insulation Thickness Over Joist

Installed SFRM Thickness (in.) on Joist	SFRM Density (pcf)				
	15	17.5	22	44	47
3/4	8	8	8	8	8
15/16	8	8	8	8	8
1	8	8	8	8	8
1-3/16	7-1/4	8	8	8	8
1-5/8	5-3/8	6-1/4	7-7/8	8	8

INTERNATIONAL CELLULOSE CORP — Type K13, URE-K, or Sonospray FC

8D. **Sprayed Fiber Insulation* —** (Optional, Not Shown) — Spray applied fiber insulation Classified for Noncombustible Building Materials (BICW), having a maximum applied density of 3.5 pcf, applied over Spray-Applied Fire Resistive Material (Item 8) on both steel floor and form units (Item 7) and supports (Item 1). Sprayed fiber insulation may be over Spray-Applied Fire Resistive Material (Item 8) according to the following tables:

Allowable Spray-Applied Fiber Insulation Thickness Over Steel Deck

Installed SFRM Thickness (in.) on Deck	SFRM Density (pcf)
	15	17.5	22	44	47
7/8	5	5	5	5	5
1 3/16	5	5	5	5	5
1 1/4	5	5	5	5	5
1 7/16	5	5	5	5	5
1 1/2	5	5	5	5	5
1 11/16	5	5	5	5	5
1 7/8	4 5/16	5	5	5	5
2	3 3/4	4 3/8	5	5	5
2 1/16	3 1/2	4 1/16	5	5	5
2 1/8	3 3/16	3 3/4	4 11/16	5	5
2 5/8	1 1/16	1 1/4	1 9/16	5	5
2 7/8	0	0	0	5	5

Allowable Spray-Applied Fiber Insulation Thickness Over Beam

Installed SFRM Thickness (in.) on Beam	SFRM Density (pcf)				
	15	17.5	22	44	47
7/16	5	4 1/16	5	5	5
9/16	5	3 7/16	5	5	5
11/16	5	2 13/16	5	5	5
13/16	4 9/16	2 3/16	5	5	5
1 3/16	2 15/16	5/16	4 5/16	5	5

Allowable Spray-Applied Fiber Insulation Thickness Over Joist

Installed SFRM Thickness (in.) on Joist	SFRM Density (pcf)				
	15	17.5	22	44	47
3/4	5	5	5	5	5
1 3/16	4 9/16	5	5	5	5
1 1/2	3 3/16	3 3/4	4 11/16	5	5
1 5/8	2 11/16	3 1/8	3 15/16	5	5

THERMACOUSTICS IND — Type TC-417

8E. **Sprayed Fiber Insulation* —** (Optional, Not Shown) — Spray applied fiber insulation Classified for Surface Burning Characteristics (BNST), having a maximum applied density of 2.8 pcf, applied over Spray-Applied Fire Resistive Material (Item 8) on both steel floor and form units (Item 7) and supports (Item 1). Sprayed fiber insulation may be over Spray-Applied Fire Resistive Material (Item 8) according to the following tables:

Allowable Spray-Applied Fiber Insulation Thickness Over Steel Deck

Installed SFRM Thickness (in.) on Deck	SFRM Density (pcf)				
	15	17.5	22	44	47
7/8	5	5	5	5	5
1-3/16	5	5	5	5	5
1-1/4	5	5	5	5	5
1-7/16	5	5	5	5	5
1-1/2	5	5	5	5	5
1-11/16	5	5	5	5	5
1-7/8	5	5	5	5	5
2	4-11/16	5	5	5	5
2-1/16	4-3/8	5	5	5	5
2-1/8	4	4-11/16	5	5	5
2-5/8	1-5/16	1-9/16	1-15/16	5	5
2-7/8	0	0	0	5	5

Allowable Spray-Applied Fiber Insulation Thickness Over Beam

Installed SFRM Thickness (in.) on Beam	SFRM Density (pcf)				
	15	17.5	22	44	47
7/16	5	5	5	5	5
9/16	5	4-5/16	5	5	5
11/16	5	3-1/2	5	5	5
13/16	5	2-3/4	5	5	5
1 3/16	3-11/16	3/8	5	5	5

Allowable Spray-Applied Fiber Insulation Thickness Over Joist

Installed SFRM Thickness (in.) on Joist	SFRM Density (pcf)				
	15	17.5	22	44	47
3/4	5	5	5	5	5
1-3/16	5	2-3/4	5	5	5
1-1/2	4	13/16	5	5	5
1-5/8	3 3/8	0	4-5/16	5	5

MONOGLASS INC — Type Monoglass

9. **Glass Fiber Mesh —** (Optional) — May be used to facilitate the spray application of the protection material to the steel bar joists. Min 3/32 in. sq mesh, coated fiberglass scrim fabric, weighing a min of 1.9 oz/sq yd shall be attached to one side of each joist web member. The method of attachment must be sufficient to hold the mesh and fire protection material during application and curing of the material. An acceptable method of attaching the mesh is by embedding the mesh in min 1/4 in. long beads of hot-melted glue. The beads of glue shall be spaced min 12 in. OC along the top chord of the bar joists. Another method of attachment is the use of 1-1/4 in. long 1/2 in. wide hairpin clips formed from 0.064 in. diam steel wire, alternating from top to bottom of the joist web member.

9A. **Metal Lath —** (Optional — Not Shown) — In lieu of Item 9, diamond mesh, 3/8 in. expanded steel, min 2.5 lb/sq yd fastened to one side of joists using No. 18 SWG steel tie wire, located at the midheight of every other web member or 18 in. OC whichever is less. Both sides of lath must be completely coated with Spray-Applied Fire Resistive Materials but with no minimum thickness requirements.

9B. **Metal Lath —** (For use on steel roof deck with Types M-II, TG, and M-II/P Spray Applied Fire Resistive Material) - 3/8 in. diamond mesh, min 2.5 lbs per sq yd painted or galv expanded steel. Fastened to steel roof deck with ribs (if any) facing down using. No. 8 by 1/2 in. wafer head self-drilling, self-tapping, coated steel screws spaced max 15 in OC in both directions for 1 and 1-1/2 hr ratings. Spaced a max 12 in. OC in both directions for 2 hr ratings. Lath edges overlapped approx 3 in.

10. **Bridging —** (Not Shown) — Min 1-1/4 by 1-1/4 by 1/8 in. thick steel angles welded to top and bottom chords of each joist. Number and spacing of bridging angles per Steel Joist Institute specification. Bridging coated with the same thickness of Spray-Applied Fire Resistive Materials as the joist to a min distance of 12 in. beyond each side of the joist.

11. **Adhesive* —** Applied to steel roof deck in accordance with manufacturer's instructions.
ISOLATEK INTERNATIONAL — Type EBS or Type X.

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

Last Updated on 2025-07-28

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- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

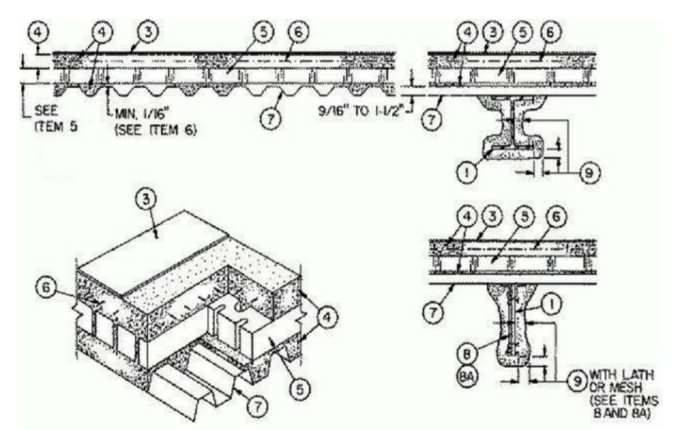
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

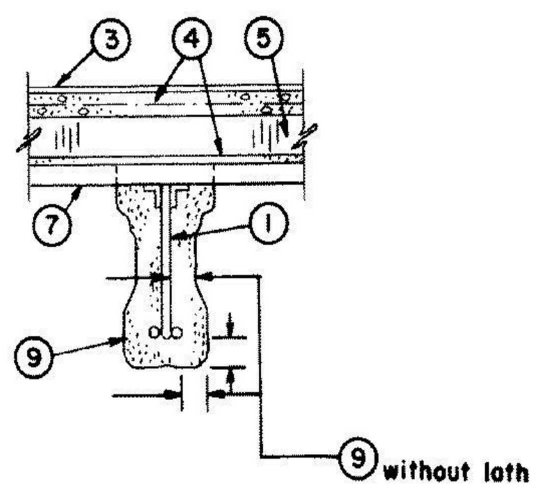
Design No. P921

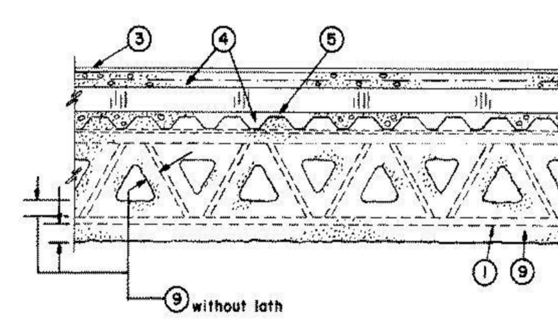
July 28, 2025

Restrained Assembly Rating — 1, 1-1/2 or 2 Hr (See Items 4, 6, 7 and 9)
Unrestrained Assembly Rating — 0 Hr (See Item 7)
Unrestrained Beam Rating — 1, 1-1/2 or 2 Hr (See Items 4, 6, 7 and 9)
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

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







1. **Supports —** W6X16 or W8X10 beam. As alternate to steel beams, Joist girders — (Not shown) — 20 in. min depth and 13 lb/lin ft min weight.

1A. **Steel Joists —** 12K5 or heavier steel joist may be used as secondary support.

2. **Bridging Angles —** (Not shown) — 1-1/4 by 1-1/4 by 1/8 in. thick angles for use with steel joists. Angles welded to top and bottom chords of the joists.

3. **Roof Covering* —** Consisting of hot mopped or cold application materials compatible with insulation(s) described herein which provide Class A, B or C coverings. See Roofing Materials and Systems Directory-Roof Covering Materials (TEVT).

3A. **In lieu of Item 3, roof covering consisting of single-ply Roofing Membrane* —** that is either ballasted, adhered or mechanically attached as permitted under the respective manufacturer's Classification. See Fire Resistance Directory — Roofing Membranes (CHCI).

4. **Vermiculite Concrete —** 6 cu ft of **Vermiculite Aggregate*** to 94 lb of Portland cement and 0.11 lb of air entraining agent mixed with approx 25 gal of water. Min compressive strength shall be 125 psi when tested in accordance with ASTM C495. Min thickness above foamed plastic is 2 in. Min thickness between top of steel deck and bottom of foamed plastic shall be 1/16 in. when wire mesh (Item 6) is used and 1/8 in. when the wire mesh is not used. When foamed plastic (Items No. 5 through 5C) is not used the topping thickness of Vermiculite Concrete over the crests of steel deck shall be a min of 2-3/16 in. for the 1 and 1-1/2 h ratings and 2-3/8 in. for the 2 h rating. The max vermiculite concrete thickness shall be determined by job site conditions.
MANDOVAL LTD

MANDOVAL VERMICULITE PRODUCTS INC

SIPLAST INC

THE STRONG CO INC

VERMICULITE PRODUCTS INC

4A. **As an alternate to Item 4, Cellular Concrete— Roof Topping Mixture* —** Foam concentrate mixed with water and Portland cement per manufacturer's specifications. Cast dry density and 28-day compressive strength of min 190 psi as determined in accordance with ASTM C495. Min thickness above foamed plastic is 2 in. Min thickness between the top of steel deck and the bottom of foamed plastic shall be 1/8 in. When foamed plastic is not used, the min thickness of Roof Topping Mixture* above the top of the steel deck shall be 2-3/4 in.
AERIX INDUSTRIES — Cast dry density 37 (+ or -) 3.0 pcf.

CELCORE INC — Type Celcore with cast dry density of 31 (+ or - 3.0) pcf or Type Celcore MF with cast dry density of 29 (+ or - 3.0) pcf.

CONCRECEL INTERNATIONAL INC — Cast dry density 38 (+ or -) 3.0 pcf.

ELASTIZELL CORP OF AMERICA — Type II. Mix #1 of cast dry density 39 (+ or -) 3.0 pcf, Mix #2 of cast dry density 40 (+ or -) 3.0 pcf, Mix #3 of cast dry density 47 (+ or -) 3.0 pcf.

SIPLAST INC — Mix #2. Cast dry density of 36 (+ or -) 3.0 pcf.

4B. **As an alternate to Item 4 —** Perlite Concrete — Mix consists of 6 cu ft of **Perlite Aggregate*** to 94 lb of Portland cement and 1-1/2 pints of air-entraining agent. Thickness of perlite concrete topping to be 2 in. min from the top plane of the foamed plastic. Min thickness between the top of steel deck and the bottom of the foamed plastic shall be 1/8 in.
See **Perlite Aggregate** (CFFX) category in Fire Resistance Directory for names of Classified companies.

4C. **As an alternate to Item 4 —** Cellular Concrete — Roof Topping Mixture* — Foam Concentrate mixed with water, Portland Cement and UL Classified Vermiculite Aggregate per manufacturer's application instructions. Cast dry density of 33 (+ or -) 3.0 pcf and 28-day compressive strength of min 250 psi as determined in accordance with ASTM C495-86. A 1/8 in. min slurry coat shall be employed below the foamed plastic (Item 5). The cellular concrete topping thickness, above the foamed plastic, shall be 2 in. min. When foamed plastic is not used, the min thickness of Roof-Topping Mixture, above the top of the steel deck, shall be 2-3/4 in.
AERIX INDUSTRIES — Mix #3.

SIPLAST INC — Mix #3.

4D. **As an alternate to Item 4 — Cellular Concrete — Roof Topping Mixture* —** Foam concentrate mixed with water and Portland cement per manufacturer's specifications. Cast dry density and 28-day compressive strength of min 190 psi as determined in accordance with ASTM C495. Min thickness above foamed plastic is 2 in. Min thickness between the top of steel deck and the bottom of foamed plastic shall be 1/8 in. When foamed plastic is not used, the min thickness of Roof Topping Mixture* above the top of the steel deck shall be 2-3/4 in.
CELCORE INC — Type Celcore with cast dry density of 31 (+ or - 3.0) pcf or Type Celcore MF with cast dry density of 29 (+ or - 3.0) pcf.

5. **Foamed Plastic* —** (Optional) — Foamed plastic insulation boards with holes and/or slots. Nom size 24 by 48 in. Thickness shall be 3/4 in. to 8 in.
SIPLAST INC

VERMICULITE PRODUCTS INC

5A. **Foamed Plastic* —** Nom 24 by 48 in., 48 by 48 in., 24 by 96 in. or 48 by 96 in. by max 14 in. thick polystyrene foamed plastic insulation boards with holes symmetrically placed having a max density of 2.0 pcf. For use only with cellular concrete roof topping mixture.

5B. **Foamed Plastic* —** (Optional) — Nom 24 x 48 by max 8 in. thick polystyrene foamed plastic insulation boards having a density of 2.5 pcf max. Each insulation board shall contain six nom 3 in. diam holes oriented in two rows of three holes each, with the holes spaced 12 in. OC transversely and 16 in. OC longitudinally.
See **Foamed Plastic*** (BRYX) category in the Building Materials Directory or **Foamed Plastic*** (CCVW) category in Fire Resistance Directory for list of Classified Companies.

5C. **Foamed Plastic* —** (Optional — For Use With Items 4A and 4D) — Nominal 24 by 48 by max 14 in. thick expanded polystyrene foamed plastic insulation boards having a max. density of 2.5 ± 0.1 pcf encapsulated within cellular concrete topping. Each insulation board shall contain eight min 2 in. diameter holes oriented in two rows of four holes each with the holes spaced 12 in. OC transversely and 12 in. OC longitudinally or six min 3 in. diameter holes oriented in two rows of three holes each with the holes spaced 12 in. OC transversely and 16 in. OC longitudinally.
See **Foamed Plastic*** (BRYX) category in the Building Materials Directory or **Foamed Plastic*** (CCVW) category in Fire Resistance Directory for list of Classified Companies.

6. **Wire Mesh —** No. 19 SWG galv steel wire twisted to form 2 in. hexagons. In addition, straight No. 16 SWG galv steel wire woven into mesh and spaced 3 in. apart for stiffness. Mesh installed without attachment perpendicular to supports and overlapped 6 in. at the sides. As an alternate, 4 by 8 in., No. 12/14 SWG or 2 by 2 in., No. 14/14 SWG welded wire fabric may be used. The wire mesh may be omitted for the **1 and 1-1/2 h ratings.** Thickness of vermiculite concrete between the top of the roof deck and the bottom of the foamed plastic insulation shall be 1/8 in. min when wire mesh is not used.

6A. **Fiber Reinforcement* —** (Optional, not for use to achieve 2 hr ratings) — For use only with Roof-Topping Mixtures* manufactured by Cellular Concrete LLC. In lieu of Wire Mesh (Item 6), Fiber Reinforcement may be added to roof topping mixtures (Items 4A or 4C). See Fiber Reinforcement (CBXQ) Category for rate that fibers are added to roof topping mixture.
FORTA CORP — Types Econo-Mono, Mighty-Mono, Stucco-Bond, Econo-Net, Cast-Master, Super-Net, Ultra-Net.

6B. **Wire Lath —** (As alternate for Wire Mesh Item 6) - For use only with Roof-Topping Mixtures* manufactured by ELASTIZELL CORP OF AMERICA. Welded wire lath, Type Structalath, 17 ga. galv steel wire welded to form 1-1/2 by 1-1/2 inch openings. Lath installed without attachment perpendicular to supports and overlapped 6 in. at the sides. The wire lath may be omitted for the **1 and 1-1/2 h ratings**. Thickness of cellular concrete between the top of the roof deck and the bottom of the foamed plastic insulation shall be 1/8 in. min when wire lath is not used.

7. **Steel Roof Deck —** (Unclassified) — Noncomposite design, vented or nonvented units, 9/16 in., 15/16 in., 1-5/16 in., 1-1/2 or 2 in. deep galv units, nom 24 to 36 in. wide. When vented or nonvented 9/16 in. deep galv units are used, the **Restrained Assembly and Beam Ratings shall not exceed 1-1/2 h.** Welded to supports with 3/8 in. puddle welds through weld washers spaced 15 in. OC. Adjacent units overlapped one corrugation. Max support spacing 8 ft OC unless otherwise noted for specific Classified units and their recommended loadings. Steel thickness to be No. 24 MSG min when supports are spaced not more than 8 ft OC, No. 26 MSG min when supports are spaced not more than 6 ft OC, and No. 28 MSG, 9/16 in. deep steel deck may be used when supports are spaced 4 ft. OC. Roof deck units to be loaded not more than 75 percent of their max allowable bending stress. For clear spans not more than 7 ft., 8-3/8 in. the **Unrestrained Assembly Rating is equal to the Restrained Assembly Rating.** Or, **Classified Steel Floor and Form Units*** conforming to the same installation, steel thickness, loading requirements and **Restrained Assembly Rating** as described for unclassified units.

ASC STEEL DECK, DIV OF ASC PROFILES L L C — Types CP32, C1.4-32, B-36, BN-36, BN-35-1/4, DGB-36, CP-32 Ventform, 2WH-36 and 2WHS-36. Two or three 10 ft 0 in. continuous spans may be used for Type B-36, BN-36, BN-35-1/4, DGB-36, 2WH-36, or 2WHS-36 units, and 12 ft 0 in. simple or continuous spans may be used for Type N units, provided that the total loading on these spans is based on the allowable steel stress and the deflection limitation criteria using the steel (noncomposite) section properties of these units.

CANAM GROUP INC — Types P-3606, P-3615, or P-3012; 36 in. wide Types 1.5B, 1.5BI; 24 in. wide Types 3N, 3NI, 3NW, 3NWI.

CANAM STEEL CORP — Types B, UFX, UFXV, UFX-36, UFXV-36. Types NI, NS, NS32, NI32, NS32-XS and NI32-XS deck may be used on simple or continuous 12 ft 0 in. spans with the total loading on these spans limited by the allowable bending stress and/or the deflection criteria of this deck.

DECK WEST INC — 36 in. wide Type B-DW, BA-DW or 3-DW. The Type 3-DW units made from 22 ga or heavier steel may be used for a maximum 10 ft., 0 in. spans, provided that the total loading on these spans is based on the allowable steel stresses and the deflection limitation criteria using the steel (noncomposite) section properties of these units.

EPIC METALS CORP — Type Metricform, ER2R, ER3.5, ECA, ECA3.5.

GOODER HENRICHSEN CO. — Type B.

INTSEL STEEL EAST LLC — 36 in. wide Type 1.5" B-DECK/ROOF, 24 in. wide Type N-DECK/ROOF.

KAM INDUSTRIES LTD, DBA CORDECK — Type QL-3 or Sec. 3 with or without up-punched integral hanger tabs, and 3 in. QL-99. The 3 in. deep Type QL-99 units made from 22 ga or heavier steel may be used for max 10 ft, 0 in. spans, provided the total loading on these spans is based on the allowable steel stresses and the deflection limitation criteria using the steel (noncomposite) section properties of these units.

MARLYN STEEL DECKS INC — Types B, BV, EF, EVF, F, HF, HVF, N, NV, SF, SVF, Type Marcore.

NEW MILLENNIUM BUILDING SYSTEMS L L C — Types B, BI, N, F, 0.6FD, 1.0FD, 1.5FD, 0.6FDV, 1.0FDV, BV, EHD, EHDV, HD, HDV, S, SV, SD, SDV, SDR, NW32 and NW32I. Units may be phos/painted or galvanized.

ROOF DECK INC — Vented or Nonvented Types EHD Multi-Rib, HD Multi-Rib, S Multi-Rib.

STEEL MASTERS INTERNATIONAL DEPENDABLE STEEL — 36 in. wide Types 2WH-36. Two or three 10 ft 0 in. continuous spans may be used for Type 2WH-36 units, provided that the total loading on these spans is based on the allowable steel stress and the deflection limitation criteria using the steel (noncomposite) section properties of these units.

VALLEY JOIST+DECK — Types F, B, BI, VS, B vented.

VERCO DECKING INC - A NUCOR CO — Deck types PLB, HSB, PLN3, HSN3, PLN, N, Shallow or Deep VERCOR™, Deep VERCOR VENTLOK, System 80; FORMLOK™ deck types PLB, B, PLN3, N3, PLN, N, PLW2, W2. Units may be galvanized, phos./ptd., or mill finish. Deck may be vented or non-vented. Two or three 10 ft 0 in. continuous spans may be used for the following units under the following conditions: (A) For Types PLB FORMLOK™, B, B FORMLOK™, PLW2 FORMLOK™ and W2 FORMLOK™ units the total loading on these spans shall be based on the allowable steel stress or the deflection limitation criteria using the steel (non-composite) section properties of these units. (B) For System 80 the min gauge of units is 18 MSG and use is limited to three continuous spans. Types 2.0D, 3.5D, 2.0DS-30, 2.0DF-30, 3.5DS-24, or 3.5DF-24.

Deck types PLN, N may be used on simple or continuous 12 ft 0 in. spans with the total loading on these spans limited by the allowable bending stress and/or the deflection limitation criteria.

VULCRAFT, DIV OF NUCOR CORP — Types 0.6C, 0.6CPR, 0.6CPRV, 0.6CSV, 1.0C, 1.0CSV, 1.3C, 1.3CSV, 1.5C, 2C, 3C, 1.5B, 1.5BI, 1.5PLB, 1.5F, 3N, 3NI, 3.0PLN, 3NL-32, 3NI-32, 3PLN-32. Type 1.5B units made from 21MSG or heavier steel may be used on simple or continuous 10 ft 0 in. spans with the total load on these spans limited by the allowable bending stress and/or the deflection criteria of this deck. Type 3N made from 22MSG or heavier steel may be used on simple or continuous 12 ft 0 in. spans with the total load on these spans limited by the allowable bending stress and/or the deflection criteria of this deck; Types B High Strength, BW High Strength, Nonvented Types BW, 2.0D, 3.5D, 2.0DS-30, 2.0DF-30, 3.5DS-24, or 3.5DF-24, Types D2.0-30, D3.5-24 , D2.0-30 FORMLOK, 3.5D FORMLOK or D3.5-24 FORMLOK.

8. **Metal Lath —** (Not Shown) — (Required on both sides of joists with Z-146, Z-146T, Z146PC, Z-156, Z-156T and Z-156PC, otherwise optional I) — Metal lath is used to facilitate the spray application of Spray-Applied Fire Resistive Materials on steel bar joists and trusses. The diamond mesh, 3/8 in. expanded steel lath, 1.7 to 3.4 lb per sq yd, is secured to one side of each steel joist with No. 18 SWG galv steel wire at joist web and bottom chord members, spaced 15 in. OC max. When used, the metal lath is to be fully covered with Spray-Applied Fire Resistive Materials with no min thickness requirements.

8A. **Non-Metallic Fabric Mesh —** (Optional) — As an alternate to metal lath, glass fiber fabric mesh, weighing approximately 2.5 oz per sq yd, polypropylene fabric mesh, weighing approximately 1.25 oz per sq yd or equivalent, is used to facilitate the spray application. The mesh is secured to one side of each joist web member. The method of attaching the mesh must be sufficient to hold the mesh and the spray-applied Spray-Applied Fire Resistive Materials material in place during application until it has cured. An acceptable method to attach the mesh is by embedding the mesh in minimum 1/4 in. long beads of hot melted glue. The beads of glue shall be spaced a maximum of 12 in. OC along the top chord of the bar joist. Another method to secure the mesh is by 1-1/4 in. long by 1/2 in. wide hairpin clips formed from No. 18 SWG or heavier steel wire.

9. **Spray-Applied Fire Resistive Materials* —** Applied by mixing with water and spraying in more than one coat to the final thickness shown below to joist or beam surfaces which are clean, free of dirt, loose scale and oil. A 1-3/4 in. thickness of Spray-Applied Fire Resistive Materials shall be applied to the bridging bars. Min avg and min ind density of 15/14 pcf respectively. Min avg and min ind density of 19/18 pcf respectively for Type 7GP and 7HD. For method of density determination refer to Design Information Section.

Restrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Thkns In. Min Thkns on Beam W6x16	W8x10	Min Thkns on Joist (No. Lath)	Min Thkns on Joist (with Lath)
1	1	1	1-3/8	1-1/2+	1-1/2+
1-1/2	1-1/2	1-1/4	1-3/4	2-1/4	1-3/4
2	1-1/2	1-3/8	1-7/8	2-1/4	1-3/4
2	2	1-5/8	2-1/4	2-7/16	1-7/8

ARABIAN VERMICULITE INDUSTRIES — Types MK-6/CBF, MK-6/ED, MK-/HY, MK-6s, Sonophone 1.

GCP APPLIED TECHNOLOGIES INC — Types MK-6/HY, MK-6S, RG, Monokote Acoustic 1.

GCP KOREA INC — Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6S, Monokote Acoustic 1.

PYROK INC — Type LD

Carboline Global Inc. — Types 4, 5, 5EF, 5GP, 5MD, 7GP, 7HD, 8EF, 8GP, 8MD, 9EF, 9GP, 9MD

+ For 1 Hr ratings, the min joist size shall be 14J7.

9A. **Spray-Applied Fire Resistive Materials* —** (Not Shown) — In lieu of Item 9 the following Spray-Applied Fire Resistive Materials may be applied by mixing with water and spraying in multiple coats to final thicknesses shown below. Min avg and min ind density 19/18 pcf respectively for Types 7GP, 105. Min avg and min ind density of 22/19 pcf respectively for Types Z-106, Z-106/G, Z-106/HY. For method of density determination, refer to Design Information Section, Sprayed Material.

Restrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Min Thkns on Beam in W6x16	W8x10
1	1	1-1/16	1-1/2
1-1/2	1-1/2	1-3/8	1-15/16
2	1-1/2	1-1/2	2-1/16
2	2	1-13/16	2-9/16

ARABIAN VERMICULITE INDUSTRIES — Types Sonophone 5, Z-106, Z-106/G, Z-106/HY.

GCP APPLIED TECHNOLOGIES INC — Types 105, Monokote Acoustic 5, KM-601, Z-106, Z-106/G, Z-106/HY.

GCP KOREA INC — Types Monokote Acoustic 5, Z-106, Z-106/G, Z-106/HY.

Carboline Global Inc. — Type 7GP.

9B. **Spray-Applied Fire Resistive Materials* —** (Not Shown) — In lieu of Item 9 or 9A the following Spray-Applied Fire Resistive Materials may be applied by mixing with water and spraying in multiple coats to final thicknesses shown below. Min avg and min ind density 40/36 pcf respectively. Min avg and min ind density of 40/36 pcf respectively for Types Z-146, Z-146PC and Z-146T cementitious mixture. Min avg and min ind density of 50/45 pcf respectively for Types Z-156, Z-156T and Z-156PC. For method of density determination, refer to Design Information Section, Sprayed Material.

Restrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Min Thkns on Beam in W6x16	W8x10
1	1	1-1/16	1-1/2
1-1/2	1-1/2	1-3/8	1-15/16
2	1-1/2	1-1/2	2-1/16
2	2	1-13/16	2-9/16

ARABIAN VERMICULITE INDUSTRIES — Type Z-146

GCP APPLIED TECHNOLOGIES INC — Types Z-146, Z-146T, Z146PC, Z-156, Z-156T and Z-156PC

GCP KOREA INC — Type Z-146

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

Last Updated on 2025-07-28

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Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

STATE OF MISSOURI
DUDLEY C. CAMPBELL
NUMBER A-2021002549
ARCHITECT

DATE SIGNED: 07.30.25

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
D	CITY - 3RD REVIEW	2025/07/30

DATE:	2025/04/18
SCALE:	
DRAWN:	JV
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

LISTED ASSEMBLIES & PENETRATIONS

AC532

D

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

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- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

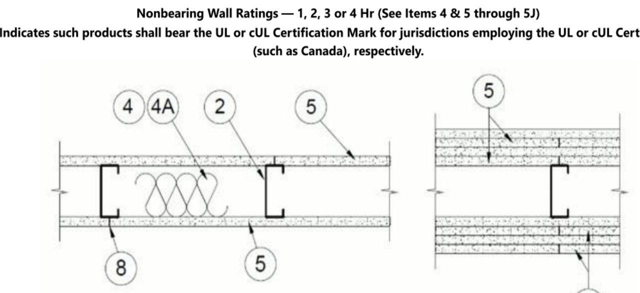
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

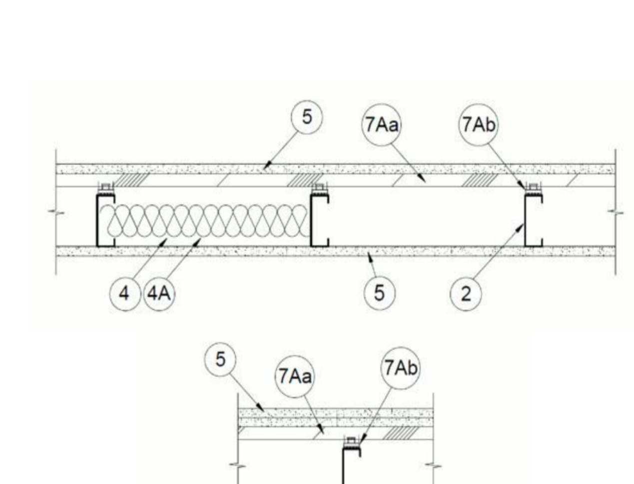
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U419

July 4, 2025

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5J)
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**





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

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

CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

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

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

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

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

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

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

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

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

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

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

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

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

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

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

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

1M. **Framing Members* — Floor and Ceiling Runners —** Not Shown — As an alternate to Item 1 — For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track

1N. **Framing Members* — Floor and Ceiling Runners —** Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Track

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

1P. **Framing Members* — Floor and Ceiling Runner —** (Not Shown — Alternate to Item 1) — For use with Item 2R, channel shaped runners pre-equipped with proprietary attachment clips. Min. 3-5/8 in. wide. Legs of top runners minimum 3-1/4 in. wide. Legs of bottom runners minimum 1-1/2 in. wide. Runners attached to floor and ceiling with fasteners 24 in. OC max.

HYPERFRAME INC - Hypertrack

1Q. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2S , proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Tracks 3-5/8" and 6".

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

IRONLINE METALS LLC — Bantam Track.

2. **Steel Studs —** Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. **Steel Studs —** (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J or Type ULIX) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

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

CEMCO, LLC — Viper25™

CRACO MFG INC — SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

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

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

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

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

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

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

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

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

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

2I. **Framing Members* — Steel Studs —**

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

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

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

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

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

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

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

2Q. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1O, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CEMCO, LLC — Viper X

2R. **Framing Members* — Steel Studs —** (Not Shown — Alternate to Item 2, For use with Item 1P) — Channel shaped steel studs with attachment clips at top and bottom, min 3-5/8 in. depth, spaced a max of 24 in. OC. Studs clipped into floor and ceiling runners (Item 1P). Max 2-3/8 in. extension reveal from top of stud to inside of ceiling runner.

HYPERFRAME INC— Hyperstud

2S. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1Q, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Studs 3-5/8" and 6".

2T. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1R, proprietary channel shaped steelstuds, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

IRONLINE METALS LLC — Bantam Stud.

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

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

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

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

4C. **Foamed Plastic* —** (As an alternate for items 4, 4A or 4B, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

4D. **Foamed Plastic* —** (As an alternate for items 4, 4A or 4B, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

BASF CORP - Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite HP+, FE137®, FE158®, Spraytite® 158, Spraytite® SP, Spraytite® 81205, Spraytite® Comfort XL, Walltite® XL, Walltite® MAX, Walltite® LWP, Walltite® Plus, Walltite® One, and Enertite® Max

4E. **Foamed Plastic* —** (As an alternate to Item 4 for use with Item 5L) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

BASF CORP - Walltite® v.5

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

Gypsum Board Protection on Each Side of Wall

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

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Type C and 5/8 in. thick Type SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, ULIX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

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

5A. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.
CGC INC — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE C V — Type SHX.

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

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

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO — Type SCX, SGX, ULIX.

USG BORAL DRYWALL SFZ LLC — Type SCX

USG MEXICO S A DE C V — Type SCX

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

UNITED STATES GYPSUM CO — Type USGX

USG BORAL DRYWALL SFZ LLC — Type USGX

USG MEXICO S A DE C V — Type USGX

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

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

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

USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX

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

Gypsum Board Protection on Each Side of Wall

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

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX or 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Types C and 5/8 in. thick SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

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

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

UNITED STATES GYPSUM CO — Type ULIX, ULX

USG MEXICO S A DE C V — Type ULX

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

5K. **Gypsum Board* —** (As an alternate to Item 5 when Foam Plastic insulation (Items 4C or 4D) is used) **—** Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-7/8 in. long steel screws spaced 8 in. OC.

5L. **Gypsum Board* —** (As an alternate to Item 5 when Foam Plastic insulation (Items 4E) is used) **—** Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Additional layer of Gypsum Board is required to what is shown in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. For 2 layer assemblies inner layer attached to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC, outer layer will be attached to studs over inner layer with the 1-7/8 in. long steel screws spaced 8 in. OC. For 3 layer assemblies inner layers installed as described in the 2 layer system above, third layer attached to studs over inner layers with 2-5/8 in. long steel screws spaced 8 in. OC.

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

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

7A. **Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Items 5B, 5E, 5H, or 5J.

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

7B. **Framing Members* —** (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 6. Not for use with Items 5B, 5E, 5H, or 5J.

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

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

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

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

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

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

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

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

b. **Steel Framing Members* —** Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

7G. **Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Items 5B, 5E, 5H, or 5J.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ga) to studs (Item 2). Clips spaced max. 48 in. OC. Clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

7H. **Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 6. Not for use with Items 5B, 5E, 5H, or 5J.

b. **Steel Framing Members* —**Used to attach furring channels (Item 7Ha) to studs. Clips spaced 48 in. OC. staggered on adjacent furring channels and secured to studs with one No. 8 x 2-1/2 in. screw and washer through the center hole. Furring channels are friction fitted into clips.

ISOTECH INDUSTRIES INC. — Type ISOSTUD

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

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

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

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

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

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

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

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

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

15. **Barrier Mesh —** (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 5) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center.
CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

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Last Updated on 2025-07-04

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Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

STATE OF MISSOURI
DUDLEY C. CAMPBELL
NUMBER A-2021002549
ARCHITECT

DATE SIGNED: 07.30.25

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/6406.24.0003 HCA - LSMC ED Expansion_R23.rvt

REVISIONS		
REV #	DESCRIPTION	DATE
D	CITY - 3RD REVIEW	2025/07/30

DATE:	2025/04/18
SCALE:	
DRAWN:	JV
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

LISTED ASSEMBLIES & PENETRATIONS

8/6/2025 2:16:41 PM

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UL Product iQ®

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- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

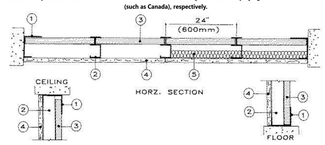
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U469

March 3rd, 2025

Assembly Rating — 1 HR
Nonbearing Wall
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Floor and Ceiling Runners —** "J" - shaped, 2-1/2 in. wide with unequal legs of 1 in. and 2 in., fabricated from 24 MSG galv steel (min 20 MSG steel required when Item 4A, 4B, or 4C is used). Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC.

2. **Steel Studs —** "C-H" shaped studs, 2-1/2 in. wide by 1-1/2 in. deep, fabricated from min 25 MSG galv steel (min 20 MSG steel required when Item 4A, 4B, or 4C is used), spaced 24 in. or 600 mm OC (max 16 in. OC when Item 4A, 4B, or 4C is used). Vertically restrained walls require studs to be cut 3/8 in. less than floor to ceiling height.

3. **Gypsum Board* —** 1 in. thick gypsum wallboard liner panels, supplied in nominal 24 in. or 600 mm widths. Vertical edges inserted in "H" shaped section of "C-H" studs. Free edge of end panels attached to long leg of "J" runners with 1-5/8 in. long Type S head steel screws spaced not greater than 12 in. OC.
CERTAINTEED GYPSUM INC — Types Shaftliner, EGRG Shaftliner or GlasRoc Shaftliner

CGC INC — Type SLX.

CERTAINTEED GYPSUM INC — Type LGFCSL

GEORGIA-PACIFIC GYPSUM L L C — Types TP-6, DGUSL and TRSL

UNITED STATES GYPSUM CO — Type SLX

USG BORAL DRYWALL SFZ LLC — Type SLX

USG MEXICO S A DE C V — Type SLX.

4. **Gypsum Board* —** 5/8 in. thick, 4 ft or 1200 mm wide, applied vertically and attached to studs with 1 in. long Type S steel screws spaced 12 in. OC along the edges and in the field of the boards.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc.

CABOT MANUFACTURING ULC — 5/8 Type X. Type Blueglass Exterior Sheathing. 5/8 in. Type C.

CERTAINTEED GYPSUM INC — Type C, Type X-1.

CGC INC — Types C, IP-X1, IP-X2, IPC-AR, SCX, ULIX, ULX, or WRC.

CERTAINTEED GYPSUM INC — Types LGFC-C, LGFC-G/A, LGFC6A

GEORGIA-PACIFIC GYPSUM L L C — Types S, DAPC, Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type TG-C, Type UWX, Veneer Plaster Base-Type UWX, Water Rated-Type UWX, Sheathing Type-UWX, Soffit-Type UWX, Type DGUX, Water Rated-Type DGUX, Sheathing Type - DGUX, Soffit-Type DGUW, Type UWZX, Veneer Plaster Base - Type UWZX, Water Rated - Type UWZX, Sheathing - Type UWZX, Soffit - Type UXZX, Type DGUW, Water Rated - Type DGUW, Sheathing - Type DGUW, Type DGG, Type DAP, Type DS.

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

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type C.

UNITED STATES GYPSUM CO — Types C, FRX-G, IP-X1, IP-X2, IPC-AR, SCX, ULIX, ULX or WRC.

USG BORAL DRYWALL SFZ LLC — Types C, SCX

USG MEXICO S A DE C V — Types C, IP-X1, IP-X2, IPC-AR, SCX, ULX, or WRC.

4A. **Gypsum Board* —** Not Shown - As an Alternate to Item 4. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips (Item 6) required behind vertical joints
RAY-BAR ENGINEERING CORP — Type RB-LBG

4B. **Gypsum Board* —** Not Shown - As an Alternate to Item 4. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints. To be used with Lead Batten Strips (see Item 6B) or Lead Discs (see Item 6C).
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

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

4D. **Gypsum Board —** For use with Item 5 - 5/8 in. thick, 4 ft or 1200 mm wide, applied vertically and attached to studs with 1 in. long Type S steel screws spaced 12 in. OC along the edges and in the field of the boards.

CERTAINTEED GYPSUM INC — Type LWTX

5. **Batts and Blankets* —** (Optional) — Mineral wool batts partially or completely filling stud cavity.
ROCKWOOL — Type AFB, min. density 1.8 pcf / 28.8 kg/m^3

THERMAFIBER/OWENS CORNING — Type SAFB. SAFB FF

5A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft^3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3, in accordance with the application instructions supplied with the product.
Applegate Greenfiber Acquisition LLC — Insulmax and SANCTUARY for use with wet or dry application.

5B. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation

5C. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft^3.
INTERNATIONAL CELLULOSE CORP — Celbar-RL

SD. Deleted.

SE. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) - Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft^3.

Applegate Greenfiber Acquisition LLC — Applegate Advanced Stabilized Cellulose Insulation

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

6A. **Lead Discs or Tabs —** (Not Shown) - Used in lieu of or in addition to the lead batten strips (Item 6) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

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

6C. **Lead Discs —** (Not Shown, for use with Item 4B) Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

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

Last Updated on 2025-03-03

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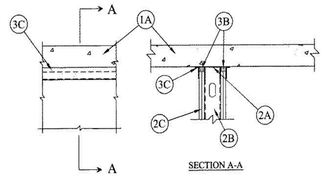

CONFIGURATION C

1. **Floor Assembly —** The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual P900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Steel Floor and Form Units* —** Max 3 in. (76 mm) deep galv steel fluted units.

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

1A. **Floor Assembly —** As an alternate to Item 1, min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) structural concrete.

2. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400- or V400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Steel Floor and Ceiling Runners —** Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runner to be provided with min 1-1/4 in. (32 mm) flanges. When U-shaped deflection channel (Item 3A) is used, ceiling runner installed within the deflection channel with 1 in. (25 mm) gap maintained between the top of ceiling runner and top of deflection channel. When deflection channel is not used, ceiling runner to be provided with min. 1-1/2 in. (38 mm) flanges. Ceiling runner is secured to the bottom of the floor with steel fasteners spaced max 24 in. (610 mm) OC or to the valleys of steel floor units (Item 1A) with steel fasteners or by welds spaced max 24 in. (610 mm) OC.

A1. **Light Gauge Framing* — Slotted Ceiling Runner —** As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner is secured to bottom of floor with steel fasteners spaced 24 in. (610 mm) OC or to steel floor units (Item 1A) with steel fasteners or by welds spaced max 24 in. (610 mm) OC.
CEMCO, LLC — CST

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — SDT250, SDT300

OLMAR SUPPLY INC — STT250, STT300

ROCKWOOL MALAYSIA SDN BHD — Type Safe

ROCKWOOL — Type Safe

THERMAFIBER/OWENS CORNING — Type SAF

C. **Fill, Void or Cavity Material* —** Min 1/8 in. (3.2 mm) dry thickness of fill material sprayed or brushed on each side of the wall to completely cover mineral wool and overlap a min of 1/2 in. (13 mm) onto wall and floor.
UNITED STATES GYPSUM CO — Type SA

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

Last Updated on 2023-06-26

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- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHBN - Joint Systems
XHBN7 - Joint Systems Certified for Canada

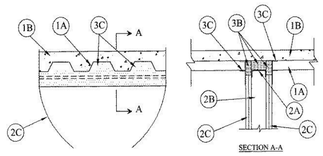
See General Information for Joint Systems

See General Information for Joint Systems Certified for Canada

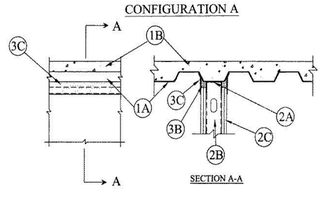
System No. HW-D-0160

June 26, 2023

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 and 2 Hr (See Item 2)	F Ratings — 1 and 2 Hr (See Item 2)
Nominal Joint Width - 1 In.	FT Ratings — 1 and 2 Hr (See Item 2)
Class II or III Movement Capabilities — 25% Compression or Extension	FH Ratings — 1 and 2 Hr (See Item 2)
	FTH Ratings — 1 and 2 Hr (See Item 2)
	Nominal Joint Width - 25 mm.
	Class II or III Movement Capabilities — 25% Compression or Extension



CONFIGURATION A



CONFIGURATION B

R & P SUPPLY — SCT250, SCT300

SCAFCO STEEL STUD MANUFACTURING CO

TELLING INDUSTRIES L L C — True-Action Deflection Track

A2. **Light Gauge Framing* - Vertical Deflection Ceiling Runner —** When the nom joint width is less than or equal to 3/4 in. (19 mm) vertical deflection ceiling runner may be used as an alternate to the ceiling runners in Items 2A and 2A1. Vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips provided with step bushings for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2B). Vertical deflection ceiling runner secured to bottom of floor with steel fasteners spaced 24 in. (610 mm) OC or to steel floor units (Item 1A) with steel fasteners or by welds spaced max 24 in. (610 mm) OC.
THE STEEL NETWORK INC — VertiTrack VTD250, VTD362, VTD400, VTD600 and VTD800

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

C. **Gypsum Board* —** Gypsum board sheets installed to a min total thickness of 5/8 in. (16 mm) and 1-1/4 in. (32 mm) on each side of wall for 1 and 2 hr rated assemblies, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a nom 1 in. (25 mm) gap shall be maintained between the top of the gypsum board and the bottom of the steel floor units and the top row of screws shall be installed into the studs 3-1/2 in. (89 mm) below the lower surface the floor.
The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.

3. **Joint System — Max separation between bottom of floor and top of wall is 1 in. (19 mm). The joint system is designed to accommodate a max 25 percent compression or extension from its installed width.** The joint system consists of the following:
Joint Configuration A
A. **Deflection Channel —** (Optional, Not Shown) - A min 3 in. (76 mm) deep by min 24 ga steel U-shaped channel sized to accommodate the ceiling runner (Item 2A). Deflection channel secured to valleys of steel floor units (Item 1A) with steel fasteners or by welds spaced max 24 in. (610 mm) OC. The ceiling runner (Item 2A) is installed within the deflection channel to maintain a 1 in. (25 mm) gap between the top of the ceiling runner and the top of the deflection channel. The ceiling runner is not fastened to the deflection channel.

B. **Forming Material* —** Min 4 pcf (64 kg/m^3) density mineral wool batt insulation cut approx 50 percent wider than the flutes, approx 50 percent thicker than the depth of the steel deck, and with a length equal to the overall width of the wall. Mineral wool compressed and inserted into flutes of the steel floor units between top of ceiling runner and the steel deck. Additional pieces of min 4 pcf (64 kg/m^3) mineral wool batt insulation having a thickness equal to the overall thickness of the gypsum board (Item 2C) are to be cut to 1 in. (25 mm) larger than the opening height and inserted into the opening on both sides of the wall.
INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

JOHNS MANVILLE — Safing

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL MALAYSIA SDN BHD — Type Safe

ROCKWOOL — Type Safe

THERMAFIBER/OWENS CORNING — Type SAF

B1. **Forming Material* —** (Optional, Not Shown) - Preformed mineral wool plugs, formed to the shape of the fluted floor units, friction fit to completely fill the flutes above the ceiling channel. The plugs shall project beyond each side of the ceiling runner and shall be recessed from both wall surfaces to accommodate the required thickness of fill material (Item 3C). Additional forming material, described in Item 3B, to be used in conjunction with the plugs to fill the gap between the top of gypsum board and bottom of steel deck.
THERMAFIBER/OWENS CORNING — TopStop mineral wool deck plugs Type SAF batts

C. **Fill, Void or Cavity Material* —** Min 1/8 in. (3.2 mm) dry thickness of fill material sprayed or brushed on each side of the wall to completely cover mineral wool and overlap a min of 1/2 in. (13 mm) onto wall/adjacent gypsum board and steel deck.
UNITED STATES GYPSUM CO — Type SA

Joint Configuration B
A. **Deflection Channel —** (Optional, Not Shown) - A min 3 in. (76 mm) deep by min 24 ga steel U-shaped channel centered on valleys of steel floor units (Item 1A) and sized to accommodate the ceiling runner (Item 2A). Deflection channel secured to valleys of steel floor units (Item 1A) with steel fasteners or by welds spaced max 24 in. (610 mm) OC. The ceiling runner (Item 2A) is installed within the deflection channel to maintain a 1 in. (25 mm) gap between the top of the ceiling runner and the top of the deflection channel. The ceiling runner is not fastened to the deflection channel.

B. **Forming Material* —** Min 4 pcf (64 kg/m^3) density mineral wool batt insulation cut to a thickness equal to the overall thickness of the gypsum board and compressed 50 percent in height and inserted between the top of the gypsum board and the steel deck on both sides of the wall.
INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

JOHNS MANVILLE — Safing

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL MALAYSIA SDN BHD — Type Safe

ROCKWOOL — Type Safe

THERMAFIBER/OWENS CORNING — Type SAF

C. **Fill, Void or Cavity Material* —** Min 1/8 in. (3.2 mm) dry thickness of fill material sprayed or brushed on each side of the wall to completely cover mineral wool and overlap a min of 1/2 in. (13 mm) onto wall and steel deck.
UNITED STATES GYPSUM CO — Type SA

Joint Configuration C
A. **Deflection Channel —** (Optional, Not Shown) - A min 3 in. (76 mm) deep by min 24 ga steel U-shaped channel and sized to accommodate the ceiling runner (Item 2A). Deflection channel secured to bottom of floor with steel fasteners spaced max 24 in. (610 mm) OC. The ceiling runner (Item 2A) is installed within the deflection channel to maintain a 1 in. (25 mm) gap between the top of the ceiling runner and the top of the deflection channel. The ceiling runner is not fastened to the deflection channel.

B. **Forming Material* —** Min 4 pcf (64 kg/m^3) density mineral wool batt insulation cut to a thickness equal to the overall thickness of the gypsum board and compressed 50 percent in height and inserted between the top of the gypsum board and bottom of floor on both sides of the wall.
INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

JOHNS MANVILLE — Safing

ROCK WOOL MANUFACTURING CO — Delta Board

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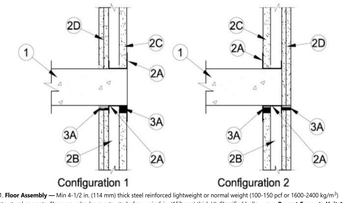
XHBN - Joint Systems

See General Information for Joint Systems

System No. HW-D-0646

June 26, 2023

Assembly Ratings - 1 and 2 Hr (See Item 2)
Nominal Joint Width - 3/4 in.
L Rating At Ambient - Less Than 1 CFM/Lin Ft
L Rating At 400 F - Less Than 1 CFM/Lin Ft
Class II and III Movement Capabilities - 25% Compression or Extension or 25% Compression (See Item 3A)



1. **Floor Assembly —** Min 4-1/2 in. (114 mm) thick steel reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) structural concrete. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow-core **Precast Concrete Units***. See **Precast Concrete Units** (CFTV) category in the Fire Resistance Directory for names manufacturers.

The hourly fire rating of the floor assembly shall be equal or greater than the hourly fire rating of the wall assembly.

2. **Shaft Wall Assembly —** The 1 or 2 hr fire rated shaft wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory. The wall shall include the following construction features:
A. **Floor, Wall and Ceiling Runners —** "J"- shaped runner, min 2-1/2 in. (64 mm) wide with unequal legs of 1 in. (25 mm) and 2 in. (51 mm), fabricated from min 24 MSG galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to walls and floor with steel fasteners spaced max 24 in. (610 mm) OC. As an alternate to the "J"-shaped runner, a min 2-1/2 in. (64 mm) wide by 1 or 1-1/4 in. (25 or 32 mm) deep channel formed from min 24 MSG galv steel may be used for the floor runner.

A1. **Light Gauge Framing* - Slotted Ceiling Track —** (Not Shown) - Slotted ceiling track shall consist of galv steel channels with slotted flanges. Slotted ceiling track sized to accommodate steel "C-H" studs (Items 2AC). Attached to concrete at ceiling with steel fasteners spaced max 12 in. OC (305 mm).
CEMCO, LLC — CST

CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H

RAM SALES L L C — RAM Slotted Track

SCAFCO STEEL STUD MANUFACTURING CO

STEELER INC — Steeler Slotted Ceiling Runner

TELLING INDUSTRIES L L C — True-Action Deflection Track

THE STEEL NETWORK INC — VertiTrack VT, series,250VT, 362VT, 400VT, 600VT and 800VT

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT slotted track

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XHBN - Joint Systems
XHBN7 - Joint Systems Certified for Canada

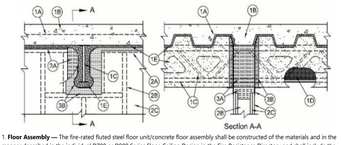
See General Information for Joint Systems

See General Information for Joint Systems Certified for Canada

System No. HW-D-0218

July 1, 2025

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 and 2 Hr (See Item 2)	F Ratings — 1 and 2 Hr (See Item 2)
Nominal Joint Width - 1-1/2 In.	FT Ratings — 1 and 2 Hr (See Item 2)
Class II Movement Capabilities — 25% Compression or Extension	FH Ratings — 1 and 2 Hr (See Item 2)
L Rating At Ambient — Less Than 1 CFM/lin ft	FTH Ratings — 1 and 2 Hr (See Item 2)
L Rating At 400 F — Less Than 1 CFM/lin ft	Nominal Joint Width — 38 mm
	Class II Movement Capabilities — 25% Compression or Extension
	L Rating At Ambient — Less Than 1.55 L/s/m
	L Rating At 204°C — Less Than 1.55 L/s/m



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

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

C. **Structural Steel Support (Optional) - Steel beam or open-web steel joist, as specified in the individual D700 or D900 Series Floor-Ceiling Design, used to support steel floor units. Structural steel support oriented perpendicular to wall assembly. —** Steel beam or open-web steel joist, as specified in the individual D700 or D900 Series Floor-Ceiling Design, used to support steel floor units. Structural steel support oriented perpendicular to wall assembly.

D. **Steel Lath —** Where open-web steel joists pass through the fire rated wall, 3/8 in. diamond mesh expanded steel lath having a nom weight of 1.7 to 3.4 lb per sq yd (0.9 to 1.8 kg/m^2) shall be secured to one side of each joist with steel tie wire and the lath shall be fully covered with no min thickness requirement.

E. **Spray-Applied Fire Resistive Material* —** After the installation of the ceiling runner, (Item 2A, 2A1 or 2A2) steel floor units to be sprayed with the thickness of material specified in the individual D700 Series Design or the structural steel supports to be sprayed in accordance with the specifications in the individual D900 Series Design. Material is to be excluded from the steel floor units, directly above the gypsum board and from the flanges of the ceiling runners.
ISOLATEK INTERNATIONAL — Type 300, Type 400

GCP APPLIED TECHNOLOGIES INC — Types MK-6/HY or MK- 10HB

1A. **Roof Assembly —** (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 or P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features as applicable:
A. **Steel Roof Deck —** Max 3 in. (76 mm) deep galv steel fluted roof deck.

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

C. **Structural Steel Support — (Optional) - Steel beam or open-web steel joist, as specified in the individual P700 or P900 Series Roof-Ceiling Design, used to support steel roof deck. Structural steel support oriented perpendicular to wall assembly.** Steel beam or open-web steel joist, as specified in the individual P700 or P900 Series Roof-Ceiling Design, used to support steel roof deck. Structural steel support oriented perpendicular to wall assembly.

D. **Steel Lath —** Where open-web steel joists pass through the fire rated wall, 3/8 in. diamond mesh expanded steel lath having a nom weight of 1.7 to 3.4 lb per sq yd (0.9 to 1.8 kg/m^2) shall be secured to one side of each joist with steel tie wire and the lath shall be fully covered with no min thickness requirement.

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

STATE OF MISSOURI
DUDLEY C. CAMPBELL
NUMBER A-2021004540

DATE SIGNED: 07.30.25

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS			
REV #	DESCRIPTION	DATE
D	CITY - 3RD REVIEW	2025/07/30

DATE:	2025/04/18
SCALE:	
DRAWN:	JV
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

LISTED ASSEMBLIES & PENETRATIONS

AC534

Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/6406.24.0003 HCA - LSMC ED Expansion_R23.rvt
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E. **Spray-Applied Fire Resistive Material* —** After the installation of the ceiling runner, (Item 2A, 2A1 or 2A2) steel roof deck to be sprayed with the thickness of material specified in the individual P700 Series Design or the structural steel supports to be sprayed in accordance with the specifications in the individual P700 or P900 Series Design. Material is to be excluded from the steel roof deck, directly above the gypsum board and from the flanges of the ceiling runners.
ISOLATEK INTERNATIONAL — Type 300, Type 400

GCP APPLIED TECHNOLOGIES INC — Types MK-6/HY or MK-10HB

2. **Wall Assembly* —** The 1 or 2 h fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Steel Floor and Ceiling Runners —** Floor and ceiling runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner centered beneath and parallel with valley of steel floor units (Item 1A). Ceiling runner secured to steel floor units with masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC. A clearance of 1-1/2 in. (38 mm) shall be maintained between the ceiling runner and the spray-applied fire resistive material on the structural steel support members.

A1 **Light Gauge Framing*-Slotted Ceiling Runner —** As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, prior to the application of spray-applied fire resistive material, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC.
CEMCO, LLC — CST, CST325

CLARKDIETRICH BUILDING SYSTEMS — Types SLT, SLT-H

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT

RAM SALES L L C — RAM Slotted Track

SCAFCO STEEL STUD MANUFACTURING CO

TELLING INDUSTRIES L L C — True-Action Deflection Track

A2. **Light Gauge Framing*-Vertical Deflection Ceiling Runner —** As an alternate to the ceiling runners in Item 2A and 2A1, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2B). Vertical deflection ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, prior to the application of spray-applied fire resistive material, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC.

A3. **Light Gauge Framing*- Notched Ceiling Runner —** As an alternate to the ceiling runners in Items 2A through 2A2, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, prior to the application of spray-applied fire resistive material, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC.
OLMAR SUPPLY INC — Type SCR

A4. **Light Gauge Framing* — Slotted Ceiling Runner —** As an alternate to the ceiling runner in Item 2A through 2A3, ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Flange height of slotted ceiling runner shall be 3-1/4 in. (83 mm) with 2 in. (51 mm) deep slots. Slotted ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, prior to the application of spray-applied fire resistive material, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC.
SCAFCO STEEL STUD MANUFACTURING CO — Slotted Track-Type SDLT

A5. **Light Gauge Framing*** — **Floor and Ceiling Runners** — As an alternate to the floor and ceiling runners in Items 2A through 2A4, for use with Items 2B1 and 2C1, channel shaped floor and ceiling runners pre-equipped with proprietary attachment clips. Depth of runners sized to accommodate steel studs (Item 2B1). Flange height of ceiling runner shall be min 3-1/4 in. (83 mm). Ceiling runner centered beneath and parallel with the valley of the steel floor units (Item 1A) and secured to the steel floor units with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC. A clearance of 1-1/2 in. (38 mm) shall be maintained between the ceiling runner and the spray-applied fire resistive material on the structural steel support members.
HYPERFRAME INC — Hypertrack

B. **Studs —** Steel studs to be min 3-5/8 in. (92 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in, resting on and fastened to the floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection runner (Item 2A2) is used, studs secured to vertical clip through slip bushing, supplied, with No.8 by 1/2 in. (13 mm) steel screws at midheight of slot of each slot. When slotted ceiling runner (Item 2A4) is used, steel studs cut in lengths 3/4 to 1-3/4 in. (19 to 44 mm) less than floor to ceiling height and secured to slotted ceiling runner with No. 8 by 1/2 (13 mm) long wafer head steel screws at +/- 3/16 in. (5 mm) of the mid-height of slot on each side of wall. A framed opening shall be constructed around each steel structural member A min clearance of 1 in. (25 mm) to a max of 4 in. (102 mm) shall be maintained between the framing and the spray-applied fire resistive material on the two sides of the structural support. The clearance between the framing and the spray-applied fire resistive material on the bottom of the structural steel support shall be max 2 in. (51 mm). Stud spacing not to exceed 24 in. (610 mm) OC.

B1. **Studs*** — As an alternate to Item in 2B, for use with Item 2A5, C-Channel shaped steel studs with attachment clips at top and bottom, min 3-5/8 in. (92 mm) depth, spaced a max of 24 in. (610 mm) OC. Studs clipped into floor and ceiling runners (Item 2A5). Max 2-3/8 in. (60 mm) extension reveal from top of stud to inside of ceiling runner. A framed opening shall be constructed around each steel structural member. A min clearance of 1-1/2 in. (25 mm) to a max of 4 in. (102 mm) shall be maintained between the framing and the spray-applied fire resistive material on the two sides of the structural support. The clearance between the framing and the spray-applied fire resistive material on the bottom of the structural steel support shall be max 2 in. (51 mm).
HYPERFRAME INC — Hyperstud

C. **Gypsum Board* —** 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, number of layers an sheet orientation shall be as specified in the individual U400, V400 or W400 Series Design in the Fire Resistance Directory, except that a max 1-1/2 in. (38 mm) gap shall be maintained between top of gypsum board and bottom plane of steel floor units and between the top edge of the gypsum board and the spray applied fire resistive material on the structural steel support. The top row of screws shall be installed into the studs 1-1/2 to 2 in. (38 to 51 mm) below the bottom of the ceiling runner.

C1. **Gypsum Board*** — As an alternate to Item 2C, for use with Items 2A5 and 2B1, 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, number of layers an sheet orientation shall be as specified in the individual U400, V400 or W400 Series Design in the Fire Resistance Directory, except that a max 1-1/2 in. (38 mm) gap shall be maintained between top of gypsum board and bottom plane of steel floor units and between the top edge of the gypsum board and the spray applied fire resistive material on the structural steel support. The top row of screws attaching the gypsum board to the studs shall be located 4-1/4 to 5 in. (108 to 127 mm) below the valley of the steel floor units.

The hourly ratings of the joint system are dependent on the hourly rating of the wall.

3. **Joint System — Max separation between bottom of floor units and top of gypsum board at time of installation is 1-1/2 in. (38 mm). Max separation between spray-applied fire resistive material on bottom of structural support and framed opening in top of wall is 2 in. (51 mm). The joint system is designed to accommodate a max 25 percent compression or extension from its installed width.** The joint system consists of a forming material and a fill material between the top of the gypsum board and the bottom of the floor, as follows
A. **Forming Material* —** Nominal 4 in. (102 mm) thick pieces of nominal 4 pcf (64 kg/m^3) forming material, sized to be flush with both surfaces of wall, placed to fully fill the framed opening around the structural steel support. Forming material to be installed with fibers vertical along the sides of the beam and pieces sized to attain a min compression rate of 25 percent in the thickness direction. Forming material to be installed with fibers horizontal at the bottom of the beam and pieces sized to attain a min compression rate of 50 percent in the thickness direction. Additional mineral wool batt insulation cut into strips to fill the gap between top of the gypsum board and bottom of floor units. Width of the strips shall be equal to the total thickness of the gypsum board. The strips of mineral wool shall be compressed 50 percent in thickness and firmly packed into the gap between the top of gypsum board and bottom of floor units.
INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

JOHNS MANVILLE — Safing

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL — SAFE

THERMAFIBER/OWENS CORNING — Type SAF

B. **Fill, Void or Cavity Material* - Sealant —** A min 1/16 in. (1.6 mm) dry thickness (min 1/8 in. or 3.2 mm wet thickness) of fill material sprayed of troweled on each side of wall to completely cover mineral wool forming material and to overlap min 1/2 in. (13 mm) onto gypsum board and min 2 in. (51 mm) onto the steel floor units or the spray applied material on the steel floor unit and on the structural support member on both sides of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-SP WB Firestop Joint Spray

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

Last Updated on 2025-07-01

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- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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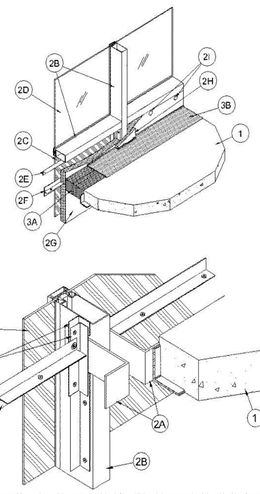
XHDG - Perimeter-fire-containment Systems

See General Information for Perimeter-fire-containment Systems

System No. CW-D-2042

June 13, 2018

F Rating — 2 Hr
T Rating — 1/4 Hr
Linear Opening Width — 8 In. Max
L Rating At Ambient — Less Than 1 CFM/Lin Ft
L Rating At 400°F — Less Than 1 CFM/Lin Ft
Class II Movement Capabilities - 5% Vertical Shear (See Item 3)



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

2. **Curtain Wall Assembly —** The curtain wall assembly shall incorporate the following construction features:
A. **Mullion Mounting Clips —** Min 4 in. (102 mm) long angles with one nom 4 in. (102 mm) leg for attachment to edge of floor assembly and with one leg approx 4 in. (102 mm) longer than distance to nearest face of mullion. Clips to be formed of min 1/4 in. (6 mm) thick steel. Clips welded to steel angle at edge of floor assembly (Item 1) on each side of vertical mullion (Item 2B) at each floor level. Each clip to be provided with elongated holes to accommodate designed amount of movement. Top edge of each clip to be recessed min 1/2 in. (13 mm) below top surface of floor.

B. **Framing —** The rectangular tubing mullions (vertical members) and transoms (horizontal members) shall be min 2-1/2 in. (64 mm) wide by 5 in. (127 mm) deep and shall be formed from min 0.085 in. (2.2 mm) thick aluminum. Mullions spaced max 60 in. (152 cm) OC and secured to mullion mounting clips (Item 2A) at each floor level with two 3/8-16 by 4 in. (102 mm) long hex head steel bolts in conjunction with Steel nuts and washers. Interior face of mullions to be max 8 in. (204 mm) from edge of floor assembly. Transoms to be spaced min 36 in. (91 cm) OC. The minimum height from the top of the floor to the bottom of the vision panel sill is 6 in. (152 mm).

C. **Spandrel Panels —** The spandrel panels shall consist of one of the following types:
a. **Glass Panels —** Nom 1/4 in. (6 mm) thick opaque heat-strengthened glass or nom 1 in. (25 mm) thick insulated glass units with two layers of nom 1/4 in. (6 mm) thick heat-strengthened glass separated by a 1/2 in. (25 mm) air space. Each panel secured in position with aluminum pressure plates in conjunction with glazing gaskets and steel screws.

b. **Aluminum Panels —** Nom 1/8 in. (3 mm) thick aluminum panels with 1/4 in. (6-mm) thick edges. Each panel secured in position with aluminum pressure plates in conjunction with gaskets and steel screws.

c. **Stone Panels —** Nom 1-3/16 in. (46 mm) thick polished granite spandrel panels with 1 in. (25 mm) thick gauged edges. Each panel secured in position with aluminum pressure plates in conjunction with gaskets and steel screws.

D. **Vision Panels —** Nom 1/4 in. (6 mm) thick transparent heat-strengthened glass or nom 1 in. (25 mm) thick insulated glass units with two layers of nom 1/4 in. (6 mm) thick transparent heat-strengthened glass separated by a 1/2 in. (25 mm) air space. Each panel secured in position with aluminum pressure plates in conjunction with glazing gaskets and steel screws.

E. **Spandrel Panel Perimeter Angles —** Nom 1-1/2 by 1-1/2 in. (38 by 38 mm) No. 22 gauge (0.031 in. or 0.79 mm thick) galvanized steel angles installed around entire perimeter of each spandrel panel. Angles recessed from interior face of framing as necessary to accommodate thickness of curtain wall insulation (Item 2G). Angles cut to be discontinuous at mullion mounting clips (Item 2A). Angles screw-attached to mullions and transom along sides and top of each spandrel panel with No. 8 by 1 in. (25 mm) long self-drilling, self-tapping steel screws spaced max 12 in. (305 mm) OC. Angle along bottom of each spandrel panel to be screw-attached to leg of angle on mullion at each end without direct attachment to transom. At mullion mounting clips, a length of steel angle shall be installed to bridge between the perimeter angles over the mullion mounting clip. The "bridge" shall be cut approx 6 in. (152 mm) longer than the clear space between angles and shall be secured to the perimeter angles with one No. 8 by 1 in. (25 mm) long steel screw at each end.

F. **Stiffener Tee —** Two nom 1-1/2 by 1-1/2 in. (38 by 38 mm) No. 20 gauge (0.038 in. or 0.97 mm thick) galv steel angles secured together, back-to-back, to form stiffener tee for installation in each horizontal seam of the curtain wall insulation (Item 2G). The angle legs forming the stem of the tee shall be secured together using No. 8 by 1/2 in. (13 mm) long self-drilling, self-tapping steel screws spaced max 8 in. (204 mm) OC. The tee shall be installed with a clearance of 1/8 to 1/4 in. (3 to 6 mm) at each end and shall be screw-attached to the spandrel panel perimeter angles (Item 2E) with No. 10 by 3/4 in. (19 mm) long self-drilling, self-tapping steel screws, with steel washers, through two predrilled 1/4 in. (6 mm) diam holes at each end. One stiffener tee shall be located with its stem at an elevation 2 in. (51 mm) below the top plane of the floor at each floor level.

G. **Curtain Wall Insulation* —** Min 2 in. (51 mm) thick mineral wool batt insulation, unfaced or faced on one side with aluminum foil/scrim vapor retarder, supplied in min 36 in. (914 cm) wide batts. Insulation batts to be installed with no vertical seams. Insulation panels tightly-fitted between vertical mullions and between the stem of the stiffener tee (Item 2F) and the transom, flush with the interior surface of framing. Insulation panels secured to spandrel panel perimeter angles with cup head weld pins (Item 2I) or 2-1/2 in. (64 mm) long steel screws with min 1-1/2 in. (38 mm) diameter galv steel clinch shields spaced max 12 in. (305 mm) OC. The horizontal seam between insulation panels shall be located 2 in. (51 mm) below the top plane of the floor at each floor level.
THERMAFIBER/OWENS CORNING — FIRESPAN 90

H. **Framing Covers — Curtain Wall Insulation* —** Min 8 in. (204 mm) wide strips cut from the same min 2 in. (51 mm) thick mineral wool batt insulation used for the curtain wall insulation (Item 2G). Framing covers to be centered over mullions and secured to the spandrel panel perimeter angles with cup head weld pins (Item 2I) or 4-1/2 in. (114 mm) long steel screws with min 1-1/2 in. (38 mm) diameter galv steel clinch shields spaced max 12 in. (305 mm) OC. Where more than one spandrel panel (Item 2C) occurs between vertically separated vision panels, the horizontal transom between spandrel panels shall also be covered with an 8 in. (204 mm) wide framing cover in the same manner as on the vertical mullions. Framing covers on mullions to abut the mineral wool batt safing material (Item 3A) above and below floor.
THERMAFIBER/OWENS CORNING — FIRESPAN 90

I. **Weld Pin —** In lieu of steel screws, No. 12 gauge (2 mm diam) galv steel weld pin with nom 1-3/16 in. (30 mm) diam galv steel cup head. Cup head weld pins provided in two lengths. One length to be equal to thickness of curtain wall insulation (Item 2G) and second length to be equal to thickness of curtain wall insulation plus thickness of framing cover (Item 2H). Cup head weld pins inserted through curtain wall insulation and mullion covers and welded to spandrel panel perimeter angles max 12 in. (305 mm) OC.

J. **Light Gauge Framing* — Spiral Anchor —** (Not Shown) — As an alternate to the weld pins (Item 2I), galv steel wire spiral anchors may be used to secure the framing covers (Item 2H) to the curtain wall insulation (Item 2G) on each side of the mullion. Nom length of spiral anchors to be equal to thickness of curtain wall insulation plus thickness of framing cover. Spiral anchors driven through mullion covers and into curtain wall insulation and spaced max 12 in. OC.
THERMAFIBER/OWENS CORNING

3. **Safing System —** Max separation between edge of floor assembly and face of framing members (at time of installation) is 8 in. (204 mm). The safing system is designed to accommodate vertical shear movement up to a max of 5 percent of its installed width. The safing system shall incorporate the following construction features:
A. **Forming Material* —** Nom 4 pcf (64 kg/m^3) density mineral wool batt insulation. Batt sections cut to a min 4 in. (102 mm) width and stacked to a thickness which is min 25 percent greater than the width of linear gap between the curtain wall insulation and the edge of the concrete floor slab. The stacked forming material is compressed 20 percent in the thickness direction and inserted cut-edge-first into the linear gap such that its top surface is flush with the top surface of the floor assembly. A max of one tightly-butted seam is permitted between mullions. Additional pieces of forming material to be friction-fit into spaces between mullion mounting clips at each mullion location.
THERMAFIBER/OWENS CORNING — SAF

B. **Fill, Void or Cavity Material* —** Min 1/16 in. (1.6 mm) dry thickness of fill material spray-applied over top of forming material and lapping min 1/2 in. (13 mm) onto the top surface of the floor and onto the curtain wall insulation and framing covers. When SpecSeal Fast Tack Spray is used, dry thickness of spray is min 5/64 in. (2 mm).
SPECIFIED TECHNOLOGIES INC — SpecSeal AS200 Elastomeric Spray, SpecSeal Safing Spray or SpecSeal Fast Tack Spray

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

respectively.

Last Updated on 2018-06-13

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- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

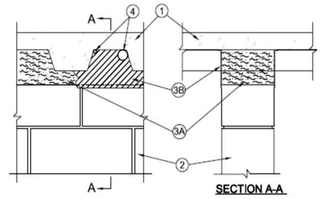
XHBN - Joint Systems

See General Information for Joint Systems

System No. HW-D-0098

June 04, 2010

Assembly Rating — 1 and 2 Hr (See Item 4)
Nominal Joint Width - 1 in.
L Rating At Ambient — Less Than 1 CFM/Lin Ft (See Item 4)
L Rating At 400°F — Less Than 1 CFM/Lin Ft (See Item 4)
Class II and III Movement Capabilities - 12.5% Compression or Extension



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

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

C. **Spray-Applied Fire Resistive Materials* —** (Optional)—(Not Shown)—Prior to the installation of the forming material and fill, void or cavity material (Items 3A, 3B) the steel floor units may be sprayed with a min 5/16 in. (8 mm) to max 1-3/4 in. (44 mm) thickness of fire resistive material.
GCP APPLIED TECHNOLOGIES INC — Type MK-6 HY

ISOLATEK INTERNATIONAL — Type 300

1A. **Roof Assembly —** (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
A. **Steel Roof Deck —** Max 3 in. (76 mm) deep galv steel fluted roof deck.

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

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

A. **Steel Roof Deck —** Max 3 in. (76 mm) deep galv steel fluted roof deck.

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

2. **Wall Assembly —** Min 6 in. (152 mm) thick steel-reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) structural concrete. Wall may also be constructed of any UL Classified **Concrete Blocks*.**
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

3. **Joint System — Max separation between bottom of floor or roof and top of wall at time of installation of joint system is 1 in (25 mm) . The joint system is designed to accommodate a max 12.5 percent compression or extension from its installed width.** The joint system shall consist of the following:
A. **Forming Material —** Nom 4 pcf (64 kg/m^3) mineral wool batt insulation compressed and firmly packed to completely fill the flutes and the gap between the top of the wall and bottom of the floor or roof as a permanent form. Batt insulation cut to the shape of the fluted steel deck, approx 33 percent larger than the flutes. Pieces compressed and installed vertically into the flutes above the top of the wall. Additional pieces of batt insulation, min 6 in. wide, installed edge-first into joint opening between bottom of fluted steel deck and top of wall, parallel with joint direction, such that batt sections are compressed min 33 percent in thickness. Compressed batt sections are flush with both surfaces of wall. Adjoining lengths of batt to be tightly butted with butted seams spaced min 48 in. (1.22 m) apart along the length of the joint.
ROCK WOOL MANUFACTURING CO — Delta Board

A1. **Forming Material*—Plugs —** (Optional-Not Shown) Performed mineral wool plugs, formed to the shape of the fluted floor units, friction fit to completely fill the flutes above the ceiling runner. The plugs shall be flush with both wall surfaces. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of the wall and the bottom of the steel floor units.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP777 Speed Plugs

B. **Fill, Void or Cavity Material* —** Min 1/8 in. (3.2 mm) wet thickness (min 1/16 in. or 1.6mm dry thickness) of fill material sprayed or troweled on each side of the wall to completely cover mineral wool forming material and to overlap a min of 1/2 in. (13 mm) onto wall and steel deck on both sides of wall. When spray-applied fire resistive material* is applied to the steel deck, the fill material is to overlap the wall a min of 1/2 in. (14 mm) and to overlap the spray-applied fire resistive material a min of 2 in. (51 mm) on both sides of wall. When through-penetrants (Item 4) are installed within flute, the fill material shall overlap a min 1/2 in. (13 mm) onto the periphery of each penetrant, on both sides of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP672 Firestop Spray or CFS-SP WB Firestop Joint Spray

4. **Through-Penetrants —** Max of two penetrants may be installed parallel with and within the flutes of the steel floor or roof deck. The annular space between penetrants and steel deck or spray-applied fire resistive material on steel deck shall be min 0 in. (point contact) and the annular space between penetrants within the flute shall be min 2 in. (51 mm). Penetrants to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of penetrants may be used:
A. **Polyvinyl Chloride (PVC) Pipe —** Nom 1-1/2 in. (38 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) piping systems.

B. **Rigid Nonmetallic Conduit+ —** Nom 1-1/2 in. (38 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA 70).

C. **Steel Conduit or Tubing —** Nom 1/2 in. (13 mm) diam rigid steel conduit or steel electrical metallic tubing (EMT) installed in accordance with the National Electrical Code (NFPA No. 70).
When Through-Penetrant(s) installed in flute of steel deck, the hourly rating of the joint system is 1 hr.

When Through-Penetrant(s) installed in flute of steel deck, L Ratings do not apply.

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

Last Updated on 2010-06-04

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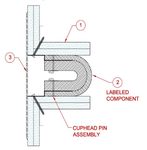
CORPORATE HEADQUARTERS
114 Lincoln Ave.
Cobleskill, NY 12043
888-680-7974
www.firetesting.com

PRODUCT LISTING

FIRELINE 520™
Listing **F520-2IM-2/26W**

Fire Rated Expansion Joint System

Listing No. F520-2IM-2/26W
Corresponding Guardian Test report GL 16310-2
Assembly Rating: 2 Hours (or 1HR)
Nominal Joint Width: 2" – 26" (50.8 mm – 660.4 mm)
Class IV Movement capabilities: Plus or minus 50% movement.



- **Wall Construction** - Two (2) layers of 5/8" thick gypsum wall board fastened to metal studs having a minimum rating of 2 hours (or 1HR where applicable).
- **Fire Barrier Assembly** - Nominal width of joint applies to system shown below. Flexible multilayer mat material with 9Gga. expanded steel mounting angles on longitudinal edges with cuphead pin assembly. Angles are to be attached to wall with min. 27 caliber 1¼" long pin with washer spaced a max. of 12" on center. The fire barrier assembly shall be installed in accordance with the installation instructions accompanying the units.

Fireline 520™, an Inpro® Company	Model	Nominal Opening Width
	F520-2IM-2/26W	2" – 26" (50.8 mm – 660.4 mm)

- **Expansion Joint Cover** - Minimum .25" (6.35mm) thick cover of aluminum, stainless steel or galvanized steel material. Joint covers anchored to floor slabs on one side of joint opening, continuous over length of joint in accordance with manufacturer's instructions. Joint covers attached to floor with hardware specified by joint manufacturer spaced max. 18" on center.

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

STATE OF MISSOURI
DUDLEY C. CAMPBELL
NUMBER A-2021004549
DATE SIGNED: 07.30.25

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Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule

ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
D	CITY - 3RD REVIEW	2025/07/30

DATE:	2025/04/18
SCALE:	
DRAWN:	JV
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

LISTED ASSEMBLIES & PENETRATIONS

AC535

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XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. W-L-1001

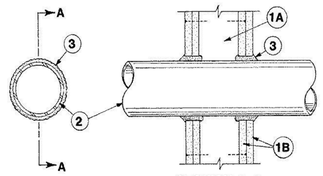
June 15, 2005

F Ratings — 1, 2, 3 and 4 Hr (See Items 2 and 3)

T Ratings — 0, 1, 2, 3, and 4 Hr (See Item 3)

L Rating At Ambient — less than 1 CFM/sq ft

L Rating At 400 F — less than 1 CFM/sq ft



SECTION A–A

1. **Wall Assembly —** The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

   A. **Studs —** Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

   B. **Gypsum Board* —** Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).

2. **Through-Penetrant —** One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in / .0 mm). (point contact) to max 2 in. (51 mm) Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

   A. **Steel Pipe —** Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

   B. **Iron Pipe —** Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

   C. **Conduit —** Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in (102 mm) diam (or smaller) steel electrical metallic tubing

   D. **Copper Tubing —** Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

   E. **Copper Pipe —** Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

   F. **Through Penetrating Product* —** Flexible Metal Piping The following types of steel flexible metal gas piping may be used:

   1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
   OMEGA FLEX INC

   2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
   GASTITE, DIV OF TITEFLEX

   3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
   ASC Engineered Solutions, LLC

3. **Fill, Void or Cavity Material* — Caulk or Sealant —** Min 5/8 , 1-1/4,1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam In (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+ When copper pipe is used, T Rating is 0 h.

3M COMPANY — CP 25WB+ or FB-3000 WT.

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Last Updated on 2005-06-15

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XHEZ - Through-penetration Firestop Systems

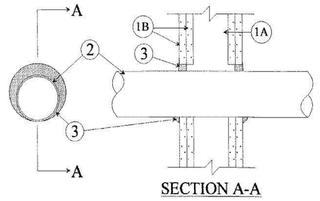
See General Information for Through-penetration Firestop Systems

System No. W-L-1146

September 03, 2004

F Ratings — 1 and 2 Hr (See Item 1)

T Rating — 0 Hr



SECTION A-A

1. **Wall Assembly —** The 1 or 2 hr fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

   A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

   B. **Gypsum Board* —** Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Max diam of opening is 5 in. (127 mm).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Through — Penetrants —** One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in/ (0 mm, point contact) to max 1/8 in. (3.2 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

   A. **Copper Tubing —** Nom 4 in. (102 mm) diam (or smaller) Type M (or heavier) copper tubing.

   B. **Copper Pipe —** Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.

   C. **Steel Pipe —** Nom 4 in. (102 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.

   D. **Conduit —** Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or rigid steel conduit.

   E. **Iron Pipe —** Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.

3. **Fill, Void or Cavity Materials* — Caulk, Sealant or Putty —** Min 1/2 in. (13 mm) diameter bead of caulk or putty applied continuously around the penetrant on the wall surfaces on both sides of the wall.
3M COMPANY — CP 25WB+ Caulk, MPS-2+ Putty, or FB-3000 WT Sealant

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Last Updated on 2005-06-15

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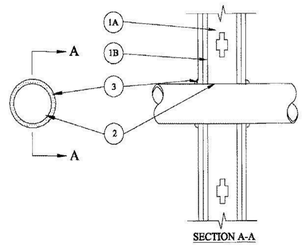

SECTION A-A

1. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

   A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide spaced max 24 in. (610 mm) OC.

   B. **Gypsum Board* —** The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Design in the UL Fire Resistance Directory. Max diam of opening is 2-1/2 in. (64 mm).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T Rating is 0 and 1/2 Hr for 1 and 2 Hr fire rated assemblies, respectively.

2. **Cable —** One cable installed eccentrically or concentrically within opening. Annular space between cable and periphery of opening to be min 0 in. (0 mm, point contact) to max 1 in. (25 mm). Cable to be rigidly supported on both sides of the wall. The following types and sizes of cable may be used:

   A. Max 200 pair No. 22 AWG (or smaller) copper conductor with polyvinyl chloride (PVC) insulation and jacketing material.

   B. Max 1/C No. 350 kcmil (or smaller) copper conductor cable with cross-linked polyethylene (XLPE) or PVC jacket.

   C. Max 7/C No. 12 AWG (or smaller) copper conductor power and control cables with XLPE or PVC insulation with XLPE or PVC jacket.

   D. Max 3/C No. 2/0 AWG (or smaller) copper or aluminum conductor SER cables with XLPE or PVC insulation and jacket.

   E. Max 4/C No. 2/0 AWG (or smaller) copper conductor, aluminum clad or steel clad TECK 90 cable with or without PVC jacketed.

   F. Max 110/125 fiber optic (F.O.) cable with PVC insulation and jacket.

   G. Max 3/C with ground No. 8 AWG (or smaller) copper conductor NM cable with PVC insulation and jacket.

   H. Max RG/U coaxial cable with fluorinated ethylene insulation and jacket.

   I. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with Hylar jacket and insulation.

   J. **Through Penetrating Product*** Any cables, **Armored Cable+** or **Metal Clad Cable+** currently Classified under the **Through Penetrating Product** category.
   See **Through Penetrating Product** (XHEJY) category in the Fire Resistance Directory for names of manufacturers.

3. **Fill, Void or Cavity Material* - Caulk or Sealant —** Min 5/8 in. (16 mm) thickness of caulk applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/cable interface at point contact location on both sides of wall.
3M COMPANY — IC 15WB+, CP 25WB+ caulk or FB-3000 WT sealant

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Last Updated on 2005-05-19

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XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. W-L-1166

June 15, 2005

F Ratings — 1 and 2 Hr (See Item 1B)

T Rating — 0 Hr

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XHEZ - Through-penetration Firestop Systems

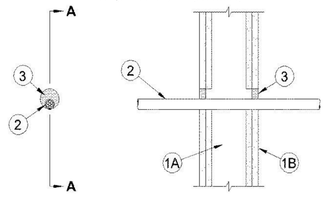
See General Information for Through-penetration Firestop Systems

System No. W-L-3194

May 19, 2005

F Ratings — 1 and 2 Hr (See Item 1)

T Ratings — 0 and 1/2 Hr (See Item 1)



Section A-A

Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

STATE OF MISSOURI
DUDLEY C. CAMPBELL
NUMBER A-2021004549

DATE SIGNED: 07.30.25

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HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

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CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
D	CITY - 3RD REVIEW	2025/07/30

DATE:	2025/04/18
SCALE:	
DRAWN:	JV
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

LISTED ASSEMBLIES & PENETRATIONS

AC536

Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/6406.24.0003 HCA - LSMC ED Expansion_R23.rvt
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XHEZ - Through-penetration Firestop Systems

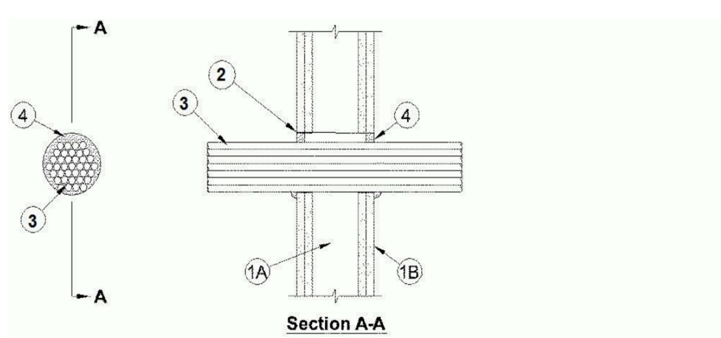
See General Information for Through-penetration Firestop Systems

System No. W-L-3195

April 10, 2018

F Ratings — 1 and 2 Hr (See Item 1)

T Ratings — 0 and 1/2 Hr (See Item 1)



1. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide spaced max 24 in. (610 mm) OC.

   B. **Gypsum Board* —** The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Design in the UL Fire Resistance Directory. Max diam of opening is 5 in. (127 mm).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T Rating is 0 and 1/2 Hr for 1 and 2 Hr fire rated assemblies, respectively.

2. **Steel Sleeve —** (Optional) - Cylindrical sleeve fabricated from min 0.018 in. (0.46 mm) thick (No. 28 gauge) galv sheet steel and having a min 1 in. (25 mm) lap along the longitudinal seam. Length of sleeve to be equal to or max 2 in. (51 mm) greater than the thickness of wall. Ends of sleeve to be flush with or extend a max 1 in. (25 mm) beyond each surface of wall.

3. **Cable —** Max 4 in. (102 mm) diam cable bundle installed eccentrically or concentrically within opening. Annular space between cable bundle and periphery of opening or sleeve to be min 0 in. (0 mm, point contact) to max 1 in. (25 mm). Cable bundle to be rigidly supported on both sides of wall. The following types and sizes of cables may be used:
   A. Max 200 pair No. 22 AWG (or smaller) copper conductor with polyvinyl chloride (PVC) insulation and jacketing material.

   B. Max 1/C No. 350 kcmil (or smaller) copper conductor cable with cross-linked polyethylene (XLPE) or PVC jacket.

   C. Max 7/C No. 12 AWG (or smaller) copper conductor power and control cables with XLPE or PVC insulation with XLPE or PVC jacket.

   D. Max 3/C No. 4/0 AWG (or smaller) copper or aluminum conductor SER cables with XLPE or PVC insulation and jacket.

   E. Max 4/C No. 2/0 AWG (or smaller) copper conductor, aluminum clad or steel clad TECK 90 cable with or without PVC jacketed.

   F. Max 110/125 fiber optic (F.O.) cable with PVC insulation and jacket.

   G. Max 3/C with ground No. 8 AWG (or smaller) copper conductor NM cable with PVC insulation and jacket.

   H. Max RG/U coaxial cable with fluorinated ethylene insulation and jacket.

   I. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with Hylar jacket and insulation.

   J. **Through Penetrating Product***-Any cables, **Armored Cable+** or **Metal Clad Cable+** currently Classified under the **Through Penetrating Product** category.
   See **Through Penetrating Product** (XHLY) category in the Fire Resistance Directory for names of manufacturers.

4. **Fill, Void or Cavity Material* - Caulk or Sealant —** Min 5/8 in. (16 mm) thickness of caulk applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/cable bundle interface at point contact location on both sides of wall.
3M COMPANY — IC 15WB+, CP 25WB+ caulk or FB-3000 WT sealant

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Last Updated on 2018-04-10

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XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. W-L-3289

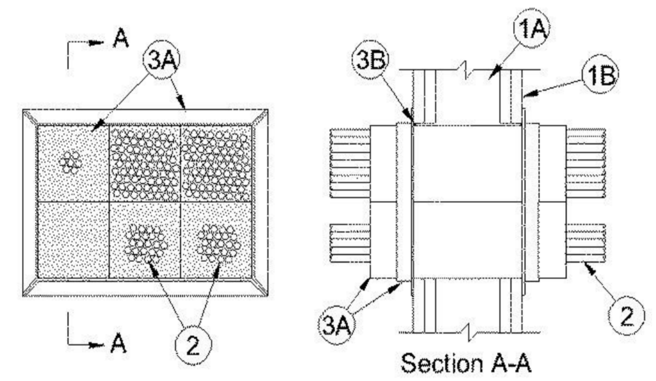
August 18, 2011

F Ratings — 1, 2, 3 and 4 Hr (See Item 1)

T Rating — 0 Hr

L Rating At Ambient - 4 to 7 CFM/sq ft (See Item 3B)

L Rating At 400 F - Less Than 1 CFM/sq ft (See Item 3B)



1. **Wall Assembly —** The 1, 2, 3 or 4 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs —** Wall framing may consist of either wood or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide spaced max 24 in. (610 mm) OC.

   B. **Gypsum Board* —** The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory. Max area of opening is 98.5 $in.^2$ (635 cm^2) with a max dimension of 12-1/8 in. (308 mm) for square devices. Max diam of opening is 2-1/4 in. (57 mm) for nom 2 in. (51 mm) round devices and 4-1/4 in. (108 mm) for 4 in. (102 mm) round devices.
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Cables —** Within the loading area of each firestop device module the cables may represent a 0 to 100 percent visual fill. Cable bundles to be rigidly supported on both sides of wall assembly. Any combination of the following types and sizes of cables may be used:
   A. Max 2/C No. 18 AWG copper conductor thermostat cable with polyvinyl chloride (PVC) insulation and jacket materials.

   B. Max 4 pair No. 24 AWG copper conductor Cat5e or Cat 6 telephone cable with PVC insulation and jacket materials.

   C. Max RG/U (or smaller) coaxial cable with foam high density polyethylene insulation and PVC jacket materials.

   D. Max 3/C (with ground) No. 14 AWG (or smaller) nonmetallic sheathed (Romex) cable with PVC insulation and jacket materials.

   E. Max 1/C No. 8 AWG copper conductor cable with PVC insulation and nylon jacket materials.

   F. Max 12 core No. 26 AWG shielded multi coax cable with foam high density polyethylene insulation and PVC jacket.

   G. Max 48MM62.5 micron fiber optic cables with having a min FT-6 rating.

   H. Max 62.5/125 micron micron fiber optic cables with having a min Riser rating.

   I. Max 1/C 3/0 AWG copper conductor cable with PVC insulation and jacket materials.

   J. Max three copper conductors (with ground) No. 12 AWG **Metal Clad Cable+**.

   K. Max four copper conductors No. 2 AWG **Metal Clad Cable+**.
   AFC CABLE SYSTEMS INC

   L. Max 1/C 2/0 AWG non halogen copper conductor cable.

   M. Max 300 pair No. 24 AWG copper conductor telephone cable with PVC insulation and jacket materials.

   N. Max 30 pair No. 22 copper conductor shielded switchboard cable with PVC insulation and jacket materials.

   O. Max RG/6 (or smaller) coaxial cable with fluorinated ethylene (FE) or PVC insulation and jacket materials.

   P. Max RG/U (or smaller) coaxial cable with fluorinated ethylene (FE) or PVC insulation and jacket materials.

   Q. Max 7/C No. 12 AWG copper conductors with PVC insulation and jacket materials.

   R. Max 4 pair No. 23 AWG copper conductor Cat 6 telephone cable with PVC insulation and jacket materials.

   S. Max three copper conductors (with ground) No. 12 AWG steel **Armored Cable+**.

   T. Max 04-02 2 5M fiber optic cables having a max diameter of 0.450 in. (11.4 mm).

   U. Max 1/C No. 750 kcmil copper conductors with PVC insulation and fabric jacket materials.

   V. Max 3/C with ground No. 4/0 AWG copper or aluminum conductor SER cable with cross linked polyethylene (XLPE) or PVC insulation and jacket.

3. **Firestop System —** The firestop system shall consist of the following:
   A. **Firestop Device* —** A max of six square firestop devices may be ganged together for 1 and 2 hr rated assemblies. A max of three square firestop devices may be ganged together for 3 and 4 hr rated assemblies. As an alternate, one round device may be centered within a round opening. Each device consists of a nom 2-1/2 by 2-1/2 by 10 in. (64 by 64 by 254 mm), a nom 4 by 4 by 10 in. (102 by 102 by 254 mm) long, a nom 2 in. (51 mm) diam by 10 in. (254 mm) or a nom 4 in. (102 mm) diam by 10 in. (254 mm) long powder coated steel transit incorporating internal intumescent material, foam plugs and mounting flanges. Firestop device(s) to be installed within opening with ends projecting an equal distance beyond each surface of wall assembly in accordance with the accompanying installation instructions. The annular space between device(s) and periphery of opening shall be min 0 in. (0 mm, point contact) to max 1/8 in. (3 mm). Firestop device(s) secured in place by means of steel split mounting flanges sized to accommodate the firestop device. Steel split mounting flanges installed on both sides of wall and secured together with supplied steel set screws. Nom 1 in. (25 mm) thick pre-cut foam plugs sized to accommodate the cables and installed flush with each end of device on both sides of wall assembly. The foam plug in one or both ends of the device is optional except when L Rating is required (See Item 3B).
   3M COMPANY — 3M Fire Barrier Pass-Through Device

   B. **Fill, Void or Cavity Materials* - Putty or Caulk —** Min 1/8 in. (3 mm) bead of fill material shall be applied at interface of gypsum board and firestop devices immediately prior to the installation of the mounting flanges. If three or less devices (Item 3A) are ganged together, the fill material may be optional. As an option to attain L Ratings, foam plugs of firestop device modules shall be recessed into device to accommodate the required thickness of fill material. When annulus around firestop device module(s) is filled with putty or caulk and when both ends of each firestop device module are filled with a min 1/8 in. (3.2 mm) depth of putty or caulk flush with both ends of the devices, the following L Ratings apply:

Max Percent Cable Fill In Device	L Rating At Ambient, CFM/sq ft (CFM/firestop device module)	L Rating At 400 F, CFM/sq ft (CFM/firestop device module)
0	4 (Less Than 1)	Less Than 1 (Less Than 1)
50	7 (1)	Less Than 1 (Less Than 1)

3M COMPANY — Moldable Putty+, CP 25WB+, IC 15WB+, 3000 WT

+ Bearing the UL Listing Mark

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Last Updated on 2011-08-18

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XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

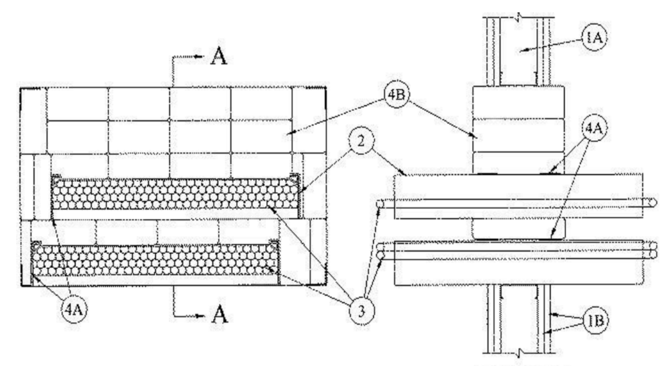
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-4037

December 31, 2014

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0 and 1/2 Hr (See Item 1)	FT Ratings — 0 and 1/2 Hr (See Item 1)
L Ratings At Ambient — 7 and 22 CFM/sq ft (See Item 4)	FH Ratings — 1 and 2 Hr (See Item 1)
L Ratings At 400 F — 4 and 21 CFM/sq ft (See Item 4)	FTH Ratings — 0 and 1/2 Hr (See Item 1)
	L Ratings At Ambient — 7 and 22 CFM/sq ft (See Item 4)
	L Ratings At 400 F — 4 and 21 CFM/sq ft (See Item 4)



1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC. Additional framing members shall be used to completely frame around opening.

   B. **Gypsum Board* —** Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Max area of opening is 540 sq. in. (0.35 m^2) with a max dimension of 30 in. (762 mm).
   The hourly F and FT Ratings for the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T, FT and FTH Ratings for the firestop system are 0 and 1/2 hr for 1 and 2 hr rated assemblies, respectively.

2. **Cable Tray —** Max 24 in. (610 mm) wide by max 4 in. (102 mm) deep open ladder cable tray with channel-shaped side rails formed of min 0.058 in. (1.5 mm) thick (16 gauge) galv steel with nom 1 in. (25 mm) diam rungs spaced 9 in. (229 mm) OC or max 24 in. (610 mm) wide by max 4 in. (102 mm) deep open ladder cable tray with channel-shaped side rails formed from 0.060 in. (1.5 mm) thick aluminum with nom 1 in. (25 mm) diam rungs spaced 9 in. (229 mm) OC. Max two cable trays per opening. The annular space between the cable trays is a min 6 in. (152 mm) to max 10 in. (254 mm) The annular space between the cable trays and the periphery of the opening will be min 0 in. (0 mm, point contact) to max 5 in. (127 mm). Cable trays to be rigidly supported on both sides of wall assembly.

3. **Cables —** Aggregate cross-sectional area of cables in cable tray not to exceed 40 percent of the cross-sectional area of the cable tray based on a max 3 in. (76 mm) cable loading depth within the tray. Any combination of the following types and sizes of cables may be used:
   A. Max 1/C 750 kcmil (or smaller) copper conductor cable with cross-linked polyethylene (XLPE) jacket.

   B. Max 300 pair No. 22 AWG (or smaller) copper conductor telecommunication cables with polyvinyl chloride (PVC) insulation and jacket.

   C. Max 7/C No. 12 AWG copper conductor power and control cables with XLPE or PVC insulation with XLPE or PVC jacket.

   D. Max 4/C No. 2/0 AWG copper or aluminum conductor cables with PVC insulation and jacket..

   E. Max 1-10/125 Fiber Optic (F.O) cable with PVC insulation and jacket.

   F. Max No. 18 AWG Type RG coaxial cable with polyvinyl chloride insulation.

4. **Firestop System —** The firestop system shall consist of the following:
   A. **Fill Void or Cavity Material* - Putty —** Min 1/2 in. (13 mm) thickness of putty formed to a min 1 in. (25 mm) width and applied within annulus at all corners of opening and extending a min 1 in. (25 mm) in both directions from each corners, flush with both surfaces of wall. Additional putty installed inside cable tray side rails to completely fill side rails within the opening and extending approximately 1/2 in. (13 mm) beyond both surfaces of wall. After installation of pillows (Item 4B) all voids within the opening shall be filled with a min 1 in. (13 mm) thickness of putty. The individual cables may be wrapped with a min 1/4 in. (6 mm) thickness, min 2 in. (51 mm) width of putty such that the putty extends approximately 1/2 in. (13 mm) beyond both surfaces of wall.
   3M COMPANY — MP+ or Cable Wrap

   L Ratings are 7 and 4 CFM/sq ft. at ambient and 400° F, respectively, when individual cables are wrapped with 3M Cable Wrap or MP+ putty in accordance with the installation instructions. L Ratings are 22 and 21 CFM/sq ft. at ambient and 400° F, respectively, when individual cables are not wrapped with 3M Cable Wrap or MP+ putty.

   B. **Fill Void or Cavity Material* - Pillows —** Max 9 in. (229 mm) long by 6 in. (152 mm) wide by 2 and 3 in. (51 and 76 mm) thick plastic covered pillows tightly-packed to fill annular space between cable tray and periphery of opening. Pillows installed with 9 in. (229 mm) dimension projecting through wall and centered within the opening. The pillows may be cut to decrease their width and repaired with min 0.002 in. (0.05mm) thick polyester tape with acrylic adhesive. The tape must overlap onto the existing pillow a min of 1/2 in. (13mm).
   3M COMPANY — Fire Barrier Pillow or Fire Barrier Self-Locking Pillows

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Last Updated on 2014-12-31

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XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

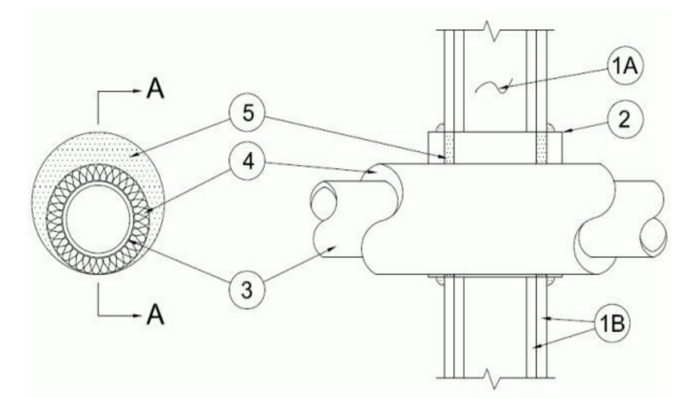
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-5168

July 13, 2016

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 and 2 Hr (See Item 1)	F Rating — 1 and 2 Hr (See Item 1)
T Rating — 0, 1/2, 3/4, 1-1/4 and 1-1/2 Hr (See Items 2 and 4)	FT Rating — 0, 1/2, 3/4, 1-1/4 and 1-1/2 Hr(See Items 2 and 4)
	FH Rating — 2 Hr
	FTH Rating — 0, 1/2, 3/4, 1-1/4 and 1-1/2 Hr (See Items 2 and 4)



1. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide spaced max 24 in. (610 mm) OC.

   B. **Gypsum Board* —** The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Design in the UL Fire Resistance Directory. Max diam of opening is 12-1/2 in. (318 mm).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Steel Sleeve —** (Optional) — Cylindrical sleeve fabricated from min 0.019 in.(0.49 mm) thick (28 gauge) galv sheet steel and having a min 2 in. (51 mm) lap along the longitudinal seam. Length of steel sleeve to be equal to thickness of wall or up to 2 in. (51 mm) longer than the thickness of wall such that, when installed, the ends of the sleeve will be flush with wall surface or project up to 1 in. (25 mm) beyond the surface of the wall on each side of the wall assembly. Sleeve installed by coiling the sheet steel to a diam smaller than the max 12-1/2 in. (318 mm) diam through opening, inserting the coil through the opening and releasing the coil to let it uncoil against the circular cutouts in the gypsum board layers

The hourly T Rating is 0 hr when optional sleeve is used.

3. **Through-Penetrants —** One metallic pipe or tubing installed concentrically or eccentrically within opening. Penetrant to be rigidly supported on both sides of wall. The following types and sizes of penetrants may be used:
   A. **Steel Pipe —** Nom 8 in. (203 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

   B. **Iron Pipe —** Nom 8 in. (203 mm) diam (or smaller) cast or ductile iron pipe.

   C. **Copper Tubing —** Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.

   D. **Copper Pipe —** Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.

4. **Pipe Covering* —** Nom 1 in. (25 mm), 1-1/2 in. (38 mm) or 2 in. (51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m^3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied SSL tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. Annular space between pipe covering and periphery of opening to be min 0 in. (0 mm, point contact) to max 1-7/8 in. (48 mm). When the steel sleeve (Item 2) is used the annular spaece between the pipe covering and the periphery of the opening is to be min 1/8 in. (3 mm) to max 1-3/4 in. (44 mm).
   See **Pipe and Equipment Covering-Materials** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

The hourly T Rating is 1-1/4 Hr for pipe coverings of nom 1 in. and 1-1/2 in. (25 mm and 38 mm) thick for 2 Hr rated assemblies. The hourly T Rating is 1-1/2 Hr for pipe coverings of nom 2 in. (51 mm) thick for 2 Hr rated assemblies. The hourly T Rating is 1/2 Hr for pipe coverings of nom 1 in. and 1-1/2 in. (25 mm and 38 mm) thick for 1 Hr rated assemblies. The hourly T Rating is 3/4 Hr for pipe coverings of nom 2 in. (51 mm) thick for 1 Hr rated assemblies.

5. **Fill, Void or Cavity Material* — Caulk or Sealant —** Min 5/8 in. (16 mm) thickness of caulk applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/pipe covering interface or gypsum board/sleeve at point contact location on both sides of wall.
3M COMPANY — IC 15WB+, CP 25WB+ caulk or FB-3000 WT sealant

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Last Updated on 2016-07-13

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XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

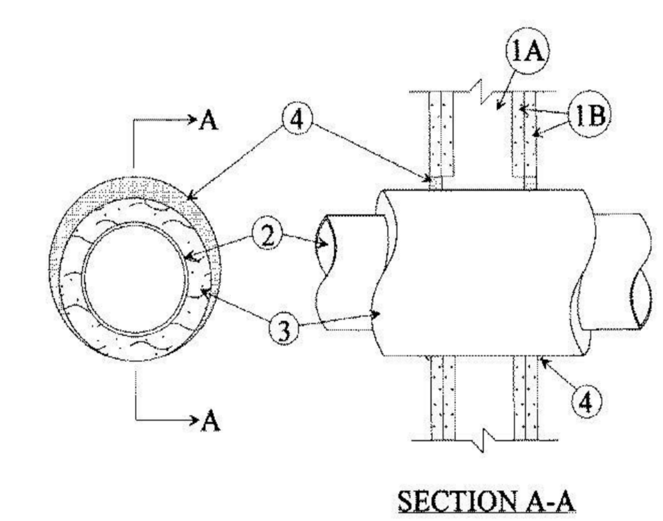
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-5039

May 04, 2017

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0, 1 and 1-1/2 Hr (See Item 3)	FT Ratings — 0, 1 and 1-1/2 Hr (See Item 3)
	FH Ratings — 1 and 2 Hr (See Item 1)
	FTH Ratings — 0, 1 and 1-1/2 Hr (See Item 3)



1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC.

   B. **Gypsum Board* —** Nom 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum wallboard type, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening in wallboard layers is 13-3/4 in. (349 mm).
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly.

2. **Through Penetrant —** One metallic pipe or tube to be installed either concentrically or eccentrically within the firestop system. Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of pipe and tubing may be used:
   A. **Steel Pipe —** Nom 8 in. (203 mm) diam (or smaller) Sch 10 (or heavier) steel pipe.

   B. **Copper Tube —** Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.

3. **Pipe Covering* —** Nom 1/2 to 2 in. (13 to 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 24 kg/m^3) glass fiber units for 1 hr rated assemblies, nom 1/2 to 1-1/2 in. (13 to 38 mm) thick cylindrical heavy density (min 3.5 pcf or 24 kg/m^3) glass fiber units for 2 hr rated assemblies, jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied SSL tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the edge of the through opening shall be min 0 in. (continuous point contact) to max 1-1/4 in. (32 mm).
The hourly T, FT and FTH Ratings are 0 hr when pipe covering less than nom 1-1/2 in. (38 mm) thick is used and/or when nom penetrant diam exceeds 4 in. (102 mm). When 1-1/2 in. (38 mm) thick pipe covering is used and penetrant diam does not exceed 4 in. (102 mm), the hourly T, FT and FTH Ratings are 1 hr when installed in 1 hr rated walls. When 1-1/2 in. (38 mm) thick pipe

Devenney GROUP

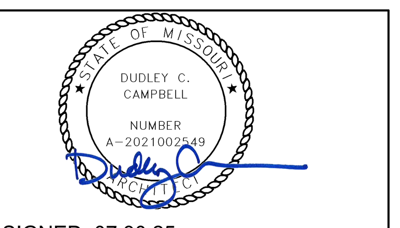
Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:



DATE SIGNED: 07.30.25

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS

REV #	DESCRIPTION	DATE
D	CITY - 3RD REVIEW	2025/07/30

DATE:	2025/04/18
SCALE:	
DRAWN:	JV
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

LISTED ASSEMBLIES & PENETRATIONS

AC537

D

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

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covering is used in 2 hr rated wall, the T, FT and FTH Ratings are 1 hr when copper tube is used and 1-1/2 hr when steel pipe not exceeding 4 in. (102 mm) diam is used.

See Pipe and Equipment Covering — Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. **Fill, Void or Cavity Materials* — Caulk or Sealant —** Min 5/8 in. (16 mm) thickness of caulk applied within annular space flush with each surface of wall. A min 1/2 in. (13 mm) diam bead of caulk shall be applied to the pipe insulation/ wallboard interface at the point contact location on both sides of wall.
3M COMPANY — Type CP 25WB+ or FB-3000 WT

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Last Updated on 2017-05-04

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XHEZ - Through-penetration Firestop Systems

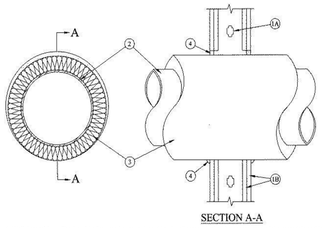
See General Information for Through-penetration Firestop Systems

System No. W-L-5147

May 19, 2005

F Ratings — 1 and 2 Hr (See Item 1)

T Ratings — 1 and 2 Hr (See Item 1)



SECTION A-A

1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board, * —** Nom 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 10-1/2 in. (267 mm).

The hourly F and T Ratings for the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Through Penetrants —** One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Penetrants to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used:

A. **Steel Pipe —** Nom 6 in. (152 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 6 in. (152 mm) diam (or smaller) cast or ductile iron pipe.

C. **Copper Tubing —** Nom 2 in. (51 mm) diam (or smaller) Type M (or heavier) copper tube.

D. **Copper Pipe —** Nom 2 in. (51 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Pipe Covering* —** Nom 1 or 1-1/2 in. (25 or 38 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m^3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied SSL tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the edge of the through opening shall be min 0 in. (0 mm, point contact) to max 1-1/2 in. (38 mm).

See **Pipe and Equipment Covering-Materials** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used

4. **Fill, Void or Cavity Material* - Caulk or Sealant —** Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. Min 1/2 in. (13 mm) diam bead of caulk applied to the pipe covering/gypsum board interface at the point contact location on both sides of wall.
3M COMPANY — FireDam-150+, IC 15WB+ caulk, FB-3000 WT sealant

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Last Updated on 2005-05-19

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XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. W-L-7019

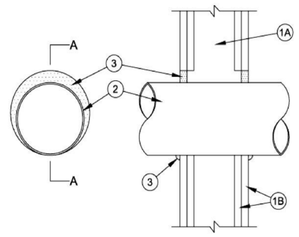
October 28, 2009

F Ratings — 1 & 2 Hr (See Item 1)

T Rating — 0 Hr

L Rating At Ambient - Less Than 1 CFM/sq ft

L Rating At 400 F - Less Than 1 CFM/sq ft



SECTION A-A

1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 11 in.(279 mm).
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Through Penetrant —** One nom 10 in. (254 mm) diam (or smaller) No. 28 MSG (or heavier) steel vent pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1 in. (25 mm). Pipe to be rigidly supported on both sides of wall assembly.

3. **Fill, Void or Cavity Material* — Sealant —** Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location between through penetrant and gypsum board, a min 3/8 in. (10 mm) diam bead of fill material shall be applied at the gypsum board/through penetrant interface on both surfaces of wall.
SPECIFIED TECHNOLOGIES INC — SpecSeal Series SSS Sealant, SpecSeal LCI Sealant or Type WF300 Firestop Caulk (wood stud walls only).

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Last Updated on 2009-10-28

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XHEZ - Through-penetration Firestop Systems

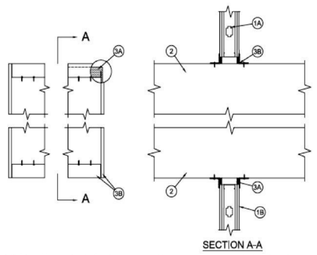
See General Information for Through-penetration Firestop Systems

System No. W-L-7063

October 14, 2009

F Ratings — 1 and 2 Hr (See Item 1)

T Ratings — 0 and 3/4 Hr (See Item 2)



SECTION A-A

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

A. **Studs —** Wall framing may consist of steel channel studs. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. Additional steel studs shall be used to completely frame the opening.

B. **Wallboard, Gypsum* —** Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Max size of opening is 9,800 in^2 (6.32 m^2) with a max dimension of 100 in. (254 cm).
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Steel Duct —** Nom 96 by 96 in. (244 by 244 cm, or smaller) galv steel duct to be installed within the opening. The duct shall be constructed and reinforced in accordance with SMACNA construction standards and provided with 2 in. (51 mm) standing seams. The annular space between the duct and the periphery of opening shall be a min 1 in.(25 mm) to a max 2 in. (51 mm) with the exception that the standing seams which shall be installed at point contact to the framing of the opening. Duct to be rigidly supported on both sides of opening.
The hourly T Rating of the firestop system is 0 hr except that when the thickness of the steel duct is 18 ga. the T Rating is 3/4 hr.

3. **Firestop System —** The firestop system shall consist of the following.

A. **Fill, Void or Cavity Material* - Caulk or Sealant —** Min 5/8 in. (16 mm) thickness of caulk applied within annulus, flush with both surfaces of wall assembly.
3M COMPANY — CP 25WB+ or FB-3000 WT

B. **Steel Retaining Angles —** Min 16 gauge galv steel angles sized to lap duct a min of 2 in. (51 mm) and lap wall surface a min of 1 in. (25 mm). Angles attached to the duct on both sides of wall with No. 10 (or larger) steel sheet metal screws 1 in. (25 mm) from each end, and 6 in. (152 mm) OC. On the opposite side of wall, the screw pattern to be staggered.

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Last Updated on 2009-10-14

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XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. C-AJ-1044

November 24, 2022

ANSI/UL1479	CAN/ULC S115
Assembly Ratings — 2, 3, and 4 Hr (See Item 2A and 4)	F Ratings — 2, 3, and 4 Hr (See Item 2A and 4)
L Rating at Ambient — Less than 1 CFM/Sq Ft -	FT Ratings — 0 Hr
L Rating at 400°F — Less than 1 CFM/Sq Ft	FH Ratings — 0 Hr
W Rating - Class 1 (See Item 4)	FTH Ratings — 0 Hr
	L Rating at Ambient — Less than 5.1 L/s/m^2
	L Rating at 204°C — Less than 5.1 L/s/m^2
	W Rating – Class 1 (See Item 4)

3. **Packing Material —** Polyethylene backer rod or nom 1 in. (25 mm) thickness of tightly packed mineral wool batt or glass fiber insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of caulk fill material (Item 4).

3A. **Forming Material* —** As an alternate to the packing material in Item 3, nom 4 in. (102 mm) wide strips of min 1/2 in (13 mm) thick compressible mat to be stacked to a thickness greater than the width of the annular space and compression-fitted, edge-first, to fill the annular space to a min 4 in. (102 mm) depth. As an option, the strips of min 1/2 in. (13mm) thick compressible mat may be folded in half, lengthwise, and stacked to a thickness greater than the width of the annular space and compression-fitted, edge-first, to fill the annular space to a min 2 in. (51 mm) depth. Top of forming material to be recessed from top surface of floor or from both surfaces of wall as necessary to accommodate the required thickness of caulk fill material.
3M COMPANY — Fire Barrier Packing Material

4. **Fill, Void or Cavity Material* — Caulk, Sealant —** Applied to fill the annular space flush with top surface of floor. In wall assemblies, required caulk thickness to be installed symmetrically on both sides of wall, flush with wall surface. At point contact location between penetrant and sleeve or between penetrant and concrete, a min 1/4 in. (6 mm) diam bead of caulk shall be applied at top surface of floor and at both surfaces of wall. The hourly F Ratings and the min required caulk thicknesses are dependent upon a number of parameters, as shown in the following table:

Min Floor or Wall Thkns In.	Nom Pipe Tube or Conduit Diam In.	Max Annular Space In.	Min Caulk Thkns In.	F Rating Hr
2-1/2 (64)	1/2-12 (13-305)	1-3/8 (35)	1/2 (13)	2
2-1/2 (64)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	2
4-1/2 (114)	1/2-6 (13-152)	1-3/8 (35)	1/4 (6) (a)	2
4-1/2 (114)	1/2-12 (13-305)	1-1/4 (32)	1/2 (13)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	3
4-1/2 (114)	22-30 (558-762)	2 (51)	2 (51)	3
5-1/2 (140)	1/2-6 (13-152)	1-3/8 (35)	1 (25) (b)	4

(a)Min 2 in (51 mm) thickness of mineral wool batt insulation or forming material (Item 3A) required in annular space.

(b)Min 1 in. (25 mm) thickness of mineral wool batt insulation required in annular space on both sides of floor or wall assembly. Min 1 in.(25 mm) thickness of caulk to be installed flush with each surface of floor or wall assembly.

3M COMPANY — CP 25WB+ or FB-3000 WT.

(Note - W Rating applies only when FB-3000 WT is used.)

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Last Updated on 2022-11-24

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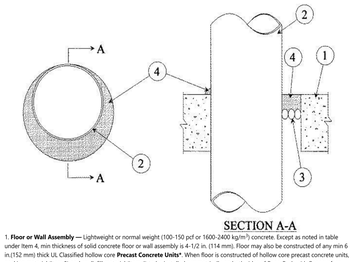

SECTION A-A

1. **Floor or Wall Assembly —** Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Except as noted in table under Item 4, min thickness of solid concrete floor or wall assembly is 4-1/2 in. (114 mm). Floor may also be constructed of any min 6 in.(152 mm) thick UL Classified hollow core **Precast Concrete Units***. When floor is constructed of hollow core precast concrete units, packing material (Item 3) and caulk fill material (Item 4) to be installed symmetrically on both sides of floor, flush with floor surface. Wall assembly may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening in solid lightweight or normal weight concrete floor is 32 in. (813 mm). Max diam of opening in floor constructed of hollow-core precast concrete units is 7 in. (178 mm)
See **Concrete Blocks** (CAZT) and **Precast Concrete Units** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

1A. **Steel Sleeve —** (Optional, Not Shown) - Nom 16 in. (406 mm) diam (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 2 in. (51 mm) above top of floor or beyond either surface of wall. As an alternate, nom 16 in. (406 mm) diam (or smaller) min 0.028 (0.71 mm) thick galvanized sheet steel sleeve cast or grouted into floor or wall assembly flush with floor or wall surfaces.

2. **Through Penetrants —** One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Max annular space between pipe, conduit or tubing and edge of through opening or sleeve is dependent on the parameters shown in Item 4. Min annular space between pipe or conduit and edge of through opening is 0 in. (point contact). Max annular space to be as shown in the table in Item 4. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. **Steel Pipe —** Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.

C. **Conduit —** Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.

D. **Conduit —** Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.

E. **Copper Tubing —** Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.

F. **Copper Pipe —** Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

STATE OF MISSOURI
DUDLEY G. CAMPBELL
NUMBER A-2021000549

DATE SIGNED: 07.30.25

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
D	CITY - 3RD REVIEW	2025/07/30

DATE: 2025/04/18
SCALE:
DRAWN: JV
REVIEWED: DP/MM
JOB NUMBER: 6406.24.0003

LISTED ASSEMBLIES & PENETRATIONS

AC538

D

Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center [LSMC]_rvt23/6406.24.0003 HCA - LSMC ED Expansion_R23.rvt

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- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

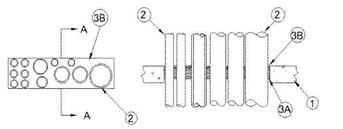
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. C-AJ-1429

November 24, 2022

ANSI/UL1479	CAN/ULC S115
Assembly Ratings — 2 Hr	F Ratings — 2 Hr
L Rating at Ambient — Less than 1 CFM/Sq Ft	FT Ratings — 0 Hr
L Rating at 400°F — Less than 1 CFM/Sq Ft	FH Ratings — 2 Hr
W Rating - Class 1 (See Item 3)	FTH Ratings — 0 Hr
	L Rating at Ambient — Less than 5.1 L/s/m^2
	L Rating at 204°C — Less than 5.1 L/s/m^2
	W Rating – Class 1 (See Item 3)



Section A-A

1. **Floor or Wall Assembly —** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600 - 2400 kg/m^3) concrete. Floor assembly may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow-core **Precast Concrete Units***. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening 240 sq in. (1548 sq cm) with a max dimension of 30 in. (762 mm). Max area of opening in floors constructed of hollow-core concrete is 49 sq in. (316 sq cm) with a max dimension of 7 in. (178 mm).
See **Concrete Blocks** (CAZT) and **Precast Concrete Units** (CFTY) categories in Fire Resistance Directory for names of manufacturers.

1A. **Steel Sleeve —** (Optional, Not Shown) - Nom 16 in. (406 mm) diam (or smaller) circular sleeve fabricated from nom 0.028 in. (0.71 mm) thick galv steel cast or grouted into floor or wall assembly flush with floor or wall surfaces.

2. **Through-Penetrant —** One or more metallic pipes, conduits, tubes or flexible metal pipes installed concentrically or eccentrically within opening. Annular space between penetrants and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm) Space between penetrants shall be min of 1/4 in. (6 mm) to max 2 in. (51 mm). Penetrants to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of penetrants may be used:
A. **Steel Pipe —** Nom 6 in. (152 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 6 in. (152 mm) diam (or smaller) cast or ductile iron pipe.

C. **Conduit —** Nom 6 in. diam (152 mm) (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.

D. **Copper Tubing —** Nom 3 in. (76mm) diam (or smaller) Type L (or heavier) copper tubing.

E. **Copper Pipe —** Nom 3 in. (76mm) diam (or smaller) Regular (or heavier) copper pipe.

F. **Through Penetrating Product* — Flexible Metal Piping —** The following types of steel flexible metal gas piping may be used:
1.) Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
OMEGA FLEX INC

2.) Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
GASTITE, DIV OF TITEFLEX

3.) Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
ASC Engineered Solutions, LLC

3. **Firestop System —** The details of the firestop system shall be as follows:

A. **Packing Material —** Min 3 in. (76 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material. In floors constructed of hollow-core concrete, packing material to be recessed from top and bottom surfaces of floor as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Materials* - Caulk or Sealant —** Min 1/2 in. (13 mm) thickness of caulk applied within the annulus, flush with top surface of floor or with both surfaces of wall. In floors constructed of hollow-core concrete, min 1/2 in. (13 mm) thickness of caulk applied within the annulus, flush with top and bottom surfaces of floor. Min 1/4 in. (6 mm) diam bead of caulk applied to the penetrant/concrete interface at the point contact location on the top surface of floor or both surfaces of wall or hollow-core concrete.
3M COMPANY — IC 15WB+, CP 25WB+ caulk or FB-3000 WT sealant

(Note - W Rating applies only when FB-3000 WT is used.)

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

Last Updated on 2022-11-24

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XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

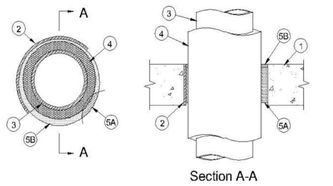
System No. C-AJ-5119

March 05, 2007

F Rating — 2 Hr

T Rating — 1/2 Hr

W Rating — Class 1 (See Item 5)



Section A-A

1. **Floor or Wall Assembly —** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening 8 in. (203 mm).
See **Concrete Block** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Steel Sleeve —** (Optional) — Nom 8 in. (203 mm) diam (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. As an alternate, nom 8 in. (203 mm) diam (or smaller) sleeve fabricated from nom 0.019 in. (0.48 mm) thick galv steel cast or grouted into floor or wall assembly flush with floor or wall surfaces.

3. **Through Penetrants —** One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Penetrants rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubings may be used:
A. **Steel Pipe —** Nom 4 in. (102 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.

C. **Copper Tubing —** Nom 2 in. (51 mm) diam (or smaller) Type L (or heavier) copper tube.

D. **Copper Pipe —** Nom 2 in. (51 mm) diam (or smaller) Regular (or heavier) copper pipe.

4. **Tube Insulation — Plastics++ —** Nom 3/4 in. (19 mm) thick (or thinner) acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The annular space between the insulated pipe or tube and the edge of the through opening shall be min 3/4 in. (19 mm) to max 1-5/8 in. (41 mm).
See **Plastics** (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.

5. **Firestop System —** The details of the firestop system shall be as follows:
A. **Packing Material —** Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Materials* — Caulk or Sealant —** Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
3M COMPANY — CP 25 WB+ or FB-3000 WT.

(Note - W Rating applies only when FB-3000 WT is used.)

*Bearing the UL Classification Marking

++Bearing the UL Recognized Component Marking

Last Updated on 2007-03-05

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XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

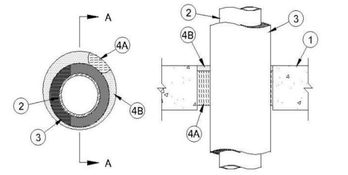
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. C-AJ-4056

November 26, 2022

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Rating — 3/4 Hr	FT Rating — 3/4 Hr
L Rating At Ambient — Less than 1 and 22 CFM/sq ft (See Item 4)	FH Rating — 3 Hr
L Rating At 400° F — Less than 1 and 21CFM/sq ft (See Item 4)	FTH Rating — 3/4 Hr
	L Rating At Ambient — Less than 5.1 L/s/m^2
	L Rating At 204° C — Less than 5.1or 107 L/s/m^2



Section A-A

A. **Fill Void or Cavity Material* - Putty —** Min 1/4 in. (6 mm) thick by min 2 in. (51 mm) width of putty wrapped around each cable such that putty extends approximately 1/2 in. (13 mm) above floor or beyond both surfaces of wall. Additional putty installed inside cable tray side rails to completely fill side rails within the opening and extending approximately 1/2 in. (13 mm) beyond both surfaces of floor or wall. After installation of pillows (Item 4B) all voids within the opening shall be filled with a min 1 in. (25 mm) thickness of putty. The individual cables may be wrapped with a min 1/4 in. (6 mm) thickness, min 2 in. (51 mm) width of putty such that the putty extends approximately 1/2 in. (13 mm) above top surface of floor or beyond both surfaces of wall.
3M COMPANY — MP+ or Cable Wrap

L Ratings are less than 1 or 4 CFM/sq ft. at ambient and 400° F, respectively, when individual cables are wrapped with 3M Cable Wrap or MP+ putty in accordance with the installation instructions. L Ratings are less than 5.1 and 107 L/m/s, at ambient and 204°C, respectively, when individual cables are not wrapped with 3M Cable Wrap or MP+ putty.

B. **Fill Void or Cavity Material* - Pillows —** Max 9 in. (229 mm) long by 6 in. (152 mm) wide by 2 and 3 in. (51 and 76 mm) thick plastic covered pillows tightly-packed into the opening to fill annular space between cable tray and periphery of opening. Pillows installed with 9 in. (229 mm) dimension projecting through floor or wall and centered within the opening. The pillows may be cut to decrease their width and repaired with min 0.002 in. (0.05mm) thick polyester tape with acrylic adhesive. The tape must overlap onto the existing pillow a min of 1/2 in. (13mm).
3M COMPANY — Fire Barrier Pillow or Fire Barrier Self-Locking Pillows

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XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. C-AJ-5001

March 05, 2007

F Ratings — 1-1/2, 2 and 3 Hr (See Item 4)

T Ratings — 0, 1/2, 3/4 and 1 Hr (See Items 1A and 4)

L Rating At Ambient — 2 CFM per sq ft

L Rating At 400 F — less than 1 CFM per sq ft

1. **Floor or Wall Assembly —** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 7 in. (178 mm).
See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1A. **Steel Sleeve —** (Optional, Not Shown) - Nom 7 in. (178 mm) diam (or smaller) sleeve fabricated from nom 0.019 in. (0.48 mm) thick galv steel cast or grouted into floor or wall assembly flush with floor or wall surfaces.

2. **Through Penetrants —** One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of pipes or tubing may be used.
A. **Steel Pipe —** Nom 3 in. (76 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 3 in. (76 mm) diam (or smaller) cast or ductile iron pipe.

C. **Copper Tubing —** Nom 3 in. (76 mm) diam (or smaller) Type M (or heavier) copper tube.

D. **Copper Pipe —** Nom 3 in. (76 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Tube Insulation - Plastics+ —** Nom 1 in. (25 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The annular space between the insulated penetrating item and the periphery of the opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm).
See **Plastics** (QMFZ2) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of UL94-5VA may be used.

4. **Firestop System —** The details of the firestop system shall be as follows:
A. **Packing Material —** Min 3-1/2 in. (89 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Materials* Putty, Sealant or Caulk —** Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor. Min 1/2 in. (13 mm) diam bead of fill material applied to the concrete/tube insulation interface at the point contact location on the top surface of floor.
3M COMPANY — WPS-2+, CP 25WB+ or FB-3000 WT.

(Note - W Rating applies only when FB-3000 WT is used.)

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XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

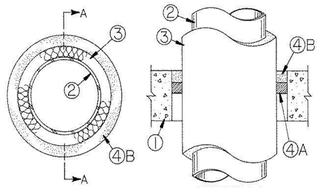
System No. C-AJ-5156

March 05, 2007

F Rating — 2 Hr

T Rating — 1 Hr

W Rating — Class 1 (See Item 4)



SECTION A-A

1. **Floor or Wall Assembly —** Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete floors or min 3 in. (76 mm) thick reinforced lightweight or normal weight concrete walls. Max diam of opening is 18 in. (457 mm) See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1A. **Steel Sleeve —** (Optional, not shown) — Nom 10 in. (254 mm) (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 2 in. (51 mm) above top of floor or beyond either surface of wall. As an alternate, nom 10 in. (254 mm) diam (or smaller) sleeve fabricated from nom 0.019 in. (0.48 mm) thick galv steel cast or grouted into floor or wall assembly flush with floor or wall surfaces. **T Rating is 0 Hr when sleeve is used.**

2. **Through Penetrant —** Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper pipe, nom 12 in. (305 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) Class 50 (or heavier) ductile iron pressure pipe or nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe centered in the opening and rigidly supported on both sides of the floor or wall assembly.

3. **Pipe Covering* —** Nom 1/2 to 2 in. (13 to 51 mm) thick hollow cylindrical heavy density (min. 3.5 pcf or 56 kg/m^3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt strip tape supplied with the product.
See **Pipe and Equipment Covering — Materials*** (BRGU) category in Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. **Firestop System —** The details of the firestop system shall be as follows:
A. **Packing Material —** Min 1 in. (25 mm) thickness of firmly packed mineral wool batt insulation used as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall as required to accommodate the required thickness of caulk fill material (Item B).

B. **Fill, Void or Cavity Material* — Caulk or Sealant —** Applied to fill the annular space flush with the top surface of the floor or sleeve or flush with both surfaces of wall. When nom pipe covering thickness is 2 in. (51 mm), min thickness of caulk fill material is 2 in. (51 mm). When nom pipe covering thickness is 1-1/2 in. (38 mm) or less, min thickness of caulk fill material is 1 in. (25 mm). The hourly F and T Ratings of the firestop system are dependent upon the thickness of the floor or wall, the size of pipe, the thickness of pipe covering material and the size of the annular space (between the pipe covering material and the edge of the circular through opening), as shown in the following table:

Min Floor or Wall Thkns, In. (mm)	Max Pipe Diam, In. (mm)	Nom Pipe Covering Thkns, In. (mm)	Annular Space, In. (mm)	F Rating Hr	T Rating Hr
2-1/2 (64)	4 (102)	1 or 1-1/2 (25 or 38)	1/2 to 2-3/8 (13 to 60)	2	1
4-1/2 (114)	4 (102)	2 (51)	1/4 to 3-5/8 (6 to 92)	2	1-1/2
2-1/2 (64)	12 (305)	1 (25)	1/2 to 1-1/2 (13 to 38)	2	1/2
4-1/2 (114)	12 (305)	1 (25)	1/2 to 2-3/8 (13 to 60)	3	1
2-1/2 (64)	12 (305)	1/2 (13)	1/2 to 2-3/8 (13 to 60)	2	0

3M COMPANY — CP 25WB+ or FB-3000 WT

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Last Updated on 2007-03-05

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XHEZ7 - Through-penetration Firestop Systems Certified for Canada

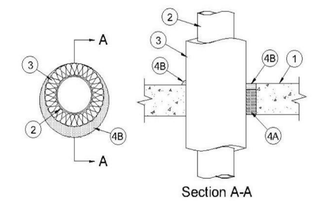
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. C-AJ-5183

March 28, 2012

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Ratings — 0 and 1/2 Hr (See Item 3)	FT Ratings — 0 and 1/2 Hr (See Item 3)
	FH Rating — 2 Hr
	FTH Ratings — 0 and 1/2 Hr (See Item 3)



Section A-A

1. **Floor or Wall Assembly —** Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600 - 2400 kg/m^3) concrete floors or min 3 in. (76 mm) thick reinforced lightweight or normal weight concrete walls. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 6 in. (152 mm).
See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1A. **Steel Sleeve —** (Optional, Not Shown) - Nom 10 in. (254 mm) diam (or smaller) sleeve fabricated from nom 0.019 in. (0.48 mm) thick galv steel cast or grouted into floor or wall assembly flush with floor or wall surfaces.

2. **Through Penetrants —** One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Penetrants rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used:
A. **Steel Pipe —** Nom 3 in. (76 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 3 in. (76 mm) diam (or smaller) cast or ductile iron pipe.

C. **Copper Tubing —** Nom 3 in. (76 mm) diam (or smaller) Type M (or heavier) copper tube.

D. **Copper Pipe —** Nom 3 in. (76 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Pipe Covering —** Nom 1/2 in. to 1 in. (13 mm to 25 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m^3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with product. Annular space between the pipe covering and periphery of opening shall be min 0 in. (point contact) to max 7/8 in. (0 mm to max 22 mm).
See **Pipe and Equipment Covering - Materials** - (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a smoke Developed Index of 50 or less may be used.

The T, FT and FTH Ratings are 1/2 hr when nominal 1 in. (25 mm) thick pipe insulation is used. The T, FT and FTH Ratings are 0 hr when pipe insulation thickness is less than nom 1 in. (25 mm).

Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

STATE OF MISSOURI
BUDLEY G. CAMPBELL
NUMBER A-2021010540

DATE SIGNED: 07.30.25

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
D	CITY - 3RD REVIEW	2025/07/30

DATE: 2025/04/18
SCALE:
DRAWN: JV
REVIEWED: DP/MM
JOB NUMBER: 6406.24.0003

LISTED ASSEMBLIES & PENETRATIONS

AC539

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/6406.24.0003 HCA - LSMC ED Expansion_R23.rvt

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4. **Firestop System —** The details of the firestop system shall be as follows:
A. **Packing Material —** Min 2 in. (51 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.

A1. **Forming Material* —** As an alternate to the packing material in Item 4A, nom 4 in. (102 mm) wide strips of min 1/2 in (13 mm) thick compressible mat folded in half, lengthwise, and stacked to a thickness greater than the width of the annular space and compression-fitted, edge-first, to fill the annular space to a min 2 in. (51 mm) depth. Top of forming material to be recessed from top surface of floor or from both surfaces of wall as necessary to accommodate the required thickness of caulk fill material.
3M COMPANY 3M FIRE PROTECTION PRODUCTS — Fire Barrier Packing Material

B. **Fill, Void or Cavity Materials* - Caulk or Sealant —** Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At point contact location between pipe covering and concrete, a min 1/4 in. (6 mm) diam bead of fill material shall be applied at the concrete/pipe covering interface on the top surface of floor or on both sides of wall.
3M COMPANY 3M FIRE PROTECTION PRODUCTS — FireDam 150+ Caulk, CP 25WB+ Caulk, IC 15WB+ Caulk or FB-3000 WT Sealant

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

Last Updated on 2012-03-28

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C & D	2 (51 mm)	1-1/2	1
A, B, C & D	1 (25 mm)	2	3/4
A, B, C & D	1/2 (13 mm)	2	1/2

5. **Firestop System —** The details of the firestop system shall be as follows:
A. **Packing Material —** Min 3 in. (76 mm) thickness of min 4 pcf or 64 kg/m^3 mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or top edge of sleeve or from both surfaces of wall or both ends of sleeve as required to accommodate the required thickness of fill material. In floors constructed of hollow-core concrete, packing material to be recessed from top and bottom surfaces of floor or sleeve as required to accommodate the required thickness of fill material.

A1. **Forming Material* —** As an alternate to the packing material in item 5A, nom 4 in. (102 mm) wide strips of min 1/2 in (13 mm) thick compressible mat to be stacked to a thickness greater than the width of the annular space and compression-fitted, edge-first, to fill the annular space to a min 4 in. (102 mm) depth. Top of forming material to be recessed from top surface of floor or from both surfaces of wall as necessary to accommodate the required thickness of caulk fill material. In floors constructed of hollow-core concrete, forming material to be recessed from top and bottom surfaces of floor or sleeve as required to accommodate the required thickness of fill material.
3M COMPANY — Fire Barrier Packing Material

B. **Fill, Void or Cavity Materials* - Caulk or Sealant —** Min 1/2 in. (13 mm) thickness of caulk applied within the annulus, flush with top surface of floor or top edge of sleeve or with both surfaces of wall or both ends of sleeves. In floors constructed of hollow-core concrete, min 1/2 in. (13 mm) thickness of caulk applied within the annulus, flush with top and bottom surfaces of floor or sleeve.
3M COMPANY — IC 15WB+, CP 25WB+ caulk or FB-3000 WT sealant

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Last Updated on 2022-11-26

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- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

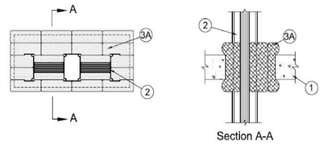
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. C-AJ-6041

December 31, 2014

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 3 Hr
	FTH Rating — 0 Hr



Section A-A

1. **Floor or Wall Assembly —** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight concrete (100-150 pcf or 1600 - 2400 kg/m^3). Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening is 305 sq in. (0.2 m^2) with max dimension of 29 in. (737 mm).
See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Busway+ —** Nom 23 in. (584 mm) wide (or smaller) by 4.5 in. (114 mm) deep "I" shaped aluminum enclosure containing factory mounted copper bars rated for 600 V, 5000 A or aluminum bars rated for 600 V, 4000 A. The busway shall bear the UL Listing Mark and shall be installed in accordance with all provisions of the National Electrical Code, NFPA No. 70. The annular space between the busway and the periphery of the opening shall be min 1 in. (25 mm) to max 3 in. (76 mm).

3. **Firestop System —** The firestop system shall consist of the following:
A. **Fill, Void or Cavity Material* - Pillows —** Nom 9 in. (229 mm) long by 4 or 6 in. (102 or 152 mm) wide by 2 or 3 in. (51 or 76 mm) thick plastic covered pillows. Pillows to be installed lengthwise through the opening and positioned to extend equally in both directions from the approximate center line of the floor or wall. Pillows tightly-packed into opening to fill the annular space between the busway and the periphery of the opening. The pillows may be cut to decrease their width and repaired with min 0.002 in. (0.05mm) thick polyester tape with acrylic adhesive. The tape must overlap onto the existing pillow a min of 1/2 in. (13mm).
3M COMPANY 3M FIRE PROTECTION PRODUCTS — Fire Barrier Pillows or Fire Barrier Self-Locking Pillows

B. **Fill, Void or Cavity Material* - Putty —** (Not Shown) — After installation of pillows (Item 3A), putty applied to seal any voids between or around the pillows on the top surface of the floor or on both sides of the wall assembly.
3M COMPANY 3M FIRE PROTECTION PRODUCTS — MP+

+Bearing the UL Listing Mark

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Last Updated on 2014-12-31

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XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

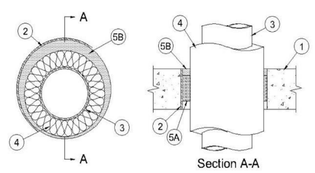
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. C-AJ-5210

November 26, 2022

ANSI/UL1479	CAN/ULC S115
F Rating — 1-1/2 and 2 Hr (See Item 4)	F Rating — 1-1/2 and 2 Hr Hr
T Rating — ½, ¾, 1 and 1-1/4 Hr (See Item 4)	FT Rating — ½, ¾, 1 and 1-1/4 Hr (See Item 4)
L Rating At Ambient — Less than 1 CFM/sq ft	FH Rating — 1-1/2 and 2 Hr Hr
L Rating At 400 F — Less than 1 CFM/sq ft	FTH Rating — ½, ¾, 1 and 1-1/4 Hr (See Item 4)
	L Rating At Ambient — Less than 5.1 L/s/m^2
	L Rating At 204 C — Less than 5.1 L/s/m^2



Section A-A

1. **Floor or Wall Assembly —** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600 - 2400 kg/m^3) concrete. Floor assembly may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow-core **Precast Concrete Units***. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening 14 in. (356 mm) Max diam of opening in floors constructed of hollow-core concrete is 7 in. (178 mm).
See **Concrete Blocks** (CAZT) and **Precast Concrete Units** (CFTV) categories in Fire Resistance Directory for names of manufacturers.

2. **Steel Sleeve —** (Optional)-Nom 14 in. (356 mm) diam (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Steel sleeve may be installed flush or may project max 2 in. (51 mm) beyond the floor or wall surfaces. As an alternate, nom 14 in. (356 mm) diam (or smaller) sleeve fabricated from nom 0.028 in. (0.71 mm) thick galv steel cast or grouted into floor or wall assembly flush with floor or wall surfaces.

3. **Through Penetrants —** One metallic pipe or tubing to be installed concentrically or eccentrically within opening. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubes may be used:
A. **Steel Pipe —** Nom 8 in. (203 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 8 in. (203 mm) diam (or smaller) cast or ductile iron pipe.

C. **Copper Tubing —** Nom 4 in. (102 mm) diam (or smaller) Type M (or heavier) copper tube.

D. **Copper Pipe —** Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.

4. **Pipe Covering —** Nom 2 in. (51 mm) thick (or less) hollow cylindrical heavy density glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with product. Annular space between the pipe covering and periphery of opening or sleeve shall be min 1/2 in. to max 1 in. (13 mm to max 25 mm).
See **Pipe and Equipment Covering - Materials** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a smoke Developed Index of 50 or less may be used.

The hourly F and T Ratings are dependent on the type of pipe or tube and the nom thickness of the pipe covering, as shown below:

Pipe Covering Nom

Penetrant	Thickness, in.	F Rating, Hr	T Rating, Hr
A & B	2 (51 mm)	2	1-1/4

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XHEZ - Through-penetration Firestop Systems
XHEZ7 – Through-penetration Firestop Systems Certified for Canada

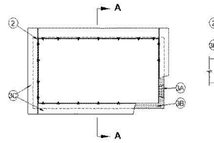
See General Information for Through-penetration Firestop Systems

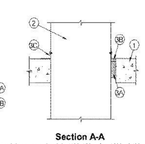
See General Information for Through-penetration Firestop Systems Certified for Canada

System No. C-AJ-7076

November 28, 2022

ANSI/UL1479	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — Less than 1 CFM/sq ft	FH Rating — 2 Hr
L Rating At 400 F — Less than 1 CFM/sq ft	FTH Rating — 0
	L Rating At Ambient — Less than 5.1 L/s/m^2
	L Rating At 204 — Less than 5.1 L/s/m^2





Section A-A

1. **Floor or Wall Assembly —** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600 - 2400 kg/m^3) concrete. Floor assembly may also be constructed of any min 6 in. thick UL Classified hollow-core **Precast Concrete Units***. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening 640 sq in. (4129 cm^2) with a max dimension of 32 in. (812 mm). Max area of in floors constructed of hollow-core concrete is 49 sq in. (316 cm^2 with a max dimension of 7 in. (178 mm).
See **Concrete Blocks** (CAZT) and **Precast Concrete Units** (CFTV) categories in Fire Resistance Directory for names of manufacturers.

2. **Steel Duct —** Nom 30 by 18 in. (762 by 457 mm) (or smaller) steel duct to be installed concentrically or eccentrically within opening. The duct shall be constructed and reinforced in accordance with SMACNA construction standards. Annular space between duct and periphery of opening shall be shall be min 0 in. (point contact) to max 2 in. (51 mm). Duct to be rigidly supported on both sides of floor or wall assembly.

3. **Firestop System —** The firestop system shall consist of the following:
A. **Packing Material —** Min 3 in. (76 mm) thickness of min 4 pcf or 64 kg/m^3 mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material. In floors constructed of hollow-core concrete, packing material to be recessed from top and bottom surfaces of floor as required to accommodate the required thickness of fill material.

A1. **Forming Material* —** As an alternate to the packing material in Item 3A, nom 4 in. (102 mm) wide strips of min 1/2 in (13 mm) thick compressible mat to be stacked to a thickness greater than the width of the annular space and compression-fitted, edge-first, to fill the annular space to a min 4 in. (102 mm) depth. Top of forming material to be recessed from top surface of floor or from both surfaces of wall as necessary to accommodate the required thickness of caulk fill material. In floors constructed of hollow-core concrete, forming material to be recessed from top and bottom surfaces of floor as required to accommodate the required thickness of fill material.
3M COMPANY — Fire Barrier Packing Material

B. **Fill, Void or Cavity Materials* - Caulk or Sealant —** Min 1/2 in. (13 mm) thickness of caulk applied within the annulus, flush with top surface of floor or with both surfaces of wall. In floors constructed of hollow-core concrete, min 1/2 in. (13 mm) thickness of caulk applied within the annulus, flush with top and bottom surfaces of floor. Min 1/4 in. (6 mm) diam bead of caulk applied to the duct/concrete interface at the point contact location on the top surface of floor or both surfaces of wall or hollow-core concrete.
3M COMPANY — IC 15WB+, CP 25WB+ caulk, or FB-3000 WT sealant

C. **Retaining Angles —** Min 16 GA galv steel angles sized to lap duct a min of 2 in. (51 mm) and lap periphery of opening a min of 1 in. (25 mm). Angles attached to all four sides of steel duct on top surface of floor or both surfaces of wall with No. 10 (or larger) steel sheet metal screws spaced a max 1 in. (25 mm) from each end and max 6 in. (152 mm) OC.

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Last Updated on 2022-11-28

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XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

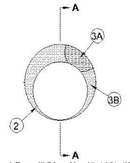
System No. C-AJ-7081

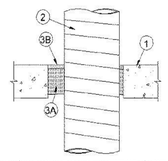
May 19, 2005

F Rating — 2 Hr

T Rating — 0 Hr

W Rating — Class 1 (See Item 3)





1. **Floor or Wall Assembly —** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Floor assembly may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow-core **Precast Concrete Units***. Wall assembly may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 18 in. (457 mm). Max diam of openings in floors constructed of hollow-core concrete is 7 in. (178 mm).
See **Concrete Blocks** (CAZT) categories in Fire Resistance Directory for names of manufacturers.

2. **Through-Penetrant —** One steel duct to be installed either concentrically or eccentrically within the firestop system. An annular space of min 1/2 in. (13 mm) to max 1-1/2 in. (38 mm) is required within the firestop system. Steel duct to be rigidly supported on both sides of floor or wall assembly. The following sizes of steel ducts may be used:
A. **Steel Duct —** Nom 16 in. (406 mm) diam (or smaller) No. 24 gauge (or heavier) spiral wound galv steel duct.

B. **Steel Vent Duct —** Nom 10 in. (254 mm) diam (or smaller) No. 28 gauge (or heavier) galv steel vent duct.

3. **Firestop System —** The firestop system shall consist of the following:
A. **Packing Material —** Min 3-1/2 in. (89 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall to accommodate the required thickness of fill material. In floors constructed of hollow-core concrete, packing material to be recessed from top and bottom surfaces of floor as required to accommodate the required thickness of fill material.

B. **Fill Void or Cavity Materials* — Caulk or Sealant —** Min 1/2 in. (13 mm) thickness of caulk applied within the annulus, flush with top surface of floor or with both surfaces of wall. In floors constructed of hollow-core concrete, min 1/2 in. (13 mm) thickness of caulk applied within the annulus, flush with top and bottom surfaces of floor. **W Rating applies only when FB-3000 WT is used. Water resistance of through penetrant (Item 2) must be considered in addition to water resistance of firestop system.**
3M COMPANY — IC 15WB+, CP 25WB+ caulk or FB-3000 WT sealant

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

Last Updated on 2005-05-19

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Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

STATE OF MISSOURI
DUDLEY G. CAMPBELL
NUMBER A-2021000549

DATE SIGNED: 07.30.25

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2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
D	CITY - 3RD REVIEW	2025/07/30

DATE:	2025/04/18
SCALE:	
DRAWN:	JV
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

LISTED ASSEMBLIES & PENETRATIONS

AC540

D

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

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1 ANNOTATION PLAN - LEVEL 1
1/8" = 1'-0"

ANNOTATION PLAN GENERAL NOTES

1. THE WORD "CLEAR" INDICATES CRITICAL DIMENSIONS FOR ACCESSIBLE EQUIPMENT OR FUNCTIONAL CLEARANCES FROM FACE OF FINISH TO FACE OF FINISH.
2. DIMENSIONS MEASURE FROM THE EXPOSED SURFACE OF EXISTING WALLS, PARTITIONS, COLUMNS, ETC.; NEW PARTITIONS ARE DIMENSIONED TO THE FACE OF THE FRAMING; MEASURE AND VERIFY DIMENSIONS IN FIELD.
3. ALL INFORMATION GRAYED-OUT INDICATES EXISTING.

PARTITION LEGEND

EXISTING	NEW	
		NON-RATED PARTITION
		2-HOUR FIRE BARRIER
		1-HOUR FIRE BARRIER
		1-HOUR SMOKE BARRIER
		SMOKE PARTITION
		1-HOUR FIRE PARTITION
		LIMITS OF CONSTRUCTION (SHADE INDICATES AREA OUTSIDE OF SCOPE)
		HATCH INDICATES SUITE (NON SLEEPING)

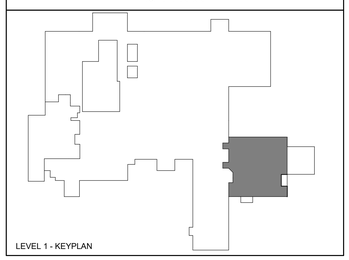
ACCESS CONTROL LEGEND

AO	AUTO OPERATOR	IC	INTERCOM
CK	CARD READER AND KEYPAD COMBO	PB	PUSH BUTTON ACTIVATION
CR	CARD READER	RR	REMOTE RELEASE

KEYNOTE LEGEND

KEY	NOTE
24	ADD ALTERNATE - RENOVATE ROOM AS A PSYCHE ROOM - DEMO ROOM AND PROVIDE NEW ANTI-LIGATURE / TAMPER PROOF LIGHT FIXTURES, CEILING MOUNTED DEVICES AND MECHANICAL GRILLES IN THIS ROOM, CASEWORK WILL BE RELOCATED AND RELOCATE HEADWALL TO NORTH WALL.
29	GC TO PROVIDE PRICE TO COSMETICALLY UPGRADE 7 EXISTING EXAM ROOMS
32	PATCH EXISTING FLOORING IF NEEDED DUE TO NEW CONSTRUCTION.

KEY PLAN



Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

STATE OF MISSOURI
DUDLEY G. CAMPBELL
NUMBER A-2021036545

DATE SIGNED: 07.30.25

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MISSOURI DHSS

FACILITY NUMBER:
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AGENCY APPROVALS:
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ANNOTATION FLOOR PLAN - LEVEL 1

AE101

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ACCESS CONTROL LEGEND

AO	AUTO OPERATOR	IC	INTERCOM
CK	CARD READER AND KEYPAD COMBO	PB	PUSH BUTTON ACTIVATION
CR	CARD READER	RR	REMOTE RELEASE

DIMENSION PLANS GENERAL NOTES

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3. ALL INFORMATION GRAYED-OUT INDICATES EXISTING.

PARTITION LEGEND

EXISTING / NEW

- NON-RATED PARTITION
- 2-HOUR FIRE BARRIER
- 1-HOUR FIRE BARRIER
- 1-HOUR SMOKE BARRIER
- SMOKE PARTITION
- 1-HOUR FIRE PARTITION
- LIMITS OF CONSTRUCTION (SHADE INDICATES AREA OUTSIDE OF SCOPE)

STC GENERAL NOTES

1. NOT ALL ADJANCIES LISTED IN STC PARTITION RATINGS LEGEND MAY OCCUR IN THIS PROJECT.
2. IN PARTITIONS WITH AND STC RATING OF 44 OR GREATER PROVIDE ACOUSTICAL PUTTY PADS AT ELECTRICAL ROUGH-IN BOXES THAT ARE BACK-TO-BACK CONFIGURATOIN OR WHERE ELECTRICAL BOX SEPARATION DISTANCES IS LESS THAN 24".
3. PENETRATIONS TRHOUGH FULL HEIGHT STC PARTITIONS SHOULD BE CENTERED IN OPENING AND SEALED AIRTIGHT.
4. CABLE TRAY PENTRATIONS IN STC PARTITIONS SHOULD BE PACKED TIGHTLY WITH HEAVY DENSITY PUTTY.

STC PARTITION RATINGS (##)

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

ADJACENCY COMBINATION		STC[2]
DIAGNOSTIC AND TREATMENT LOCATIONS		
EXAM ROOM	CORRIDOR (WITH ENTRANCE)	35[3]
EXAM ROOM	EXAM RM (W/ ELECTRICAL MASKING)	40[6]
EXAM ROOM	EXAM RM (NO ELECTRICAL MASKING)	50
EXAM ROOM	PUBLIC SPACE	50
TREATMENT ROOM	CORRIDOR (WITH ENTRANCE)	35[3]
TREATMENT ROOM	TREATMENT ROOM	50
TOILET ROOM	PUBLIC SPACE	45
CONSULTATION RM	PUBLIC SPACE	50
CONSULTATION RM	CORRIDOR (WITH ENTRANCE)	35[3]

NOTES:

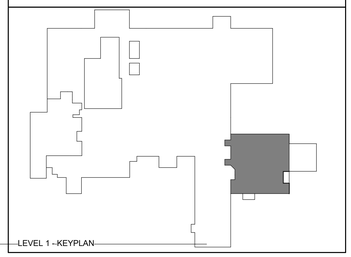
REFER TO SPECIFICATIONS FOR GYP BD REQUIREMENTS AT STC >40 CONDITIONS.

1. ADDITIONAL SPACES SHALL BE ADDED BASED ON THE BUILDING PROGRAM
2. THE STC VALUES STATED ASSUME THE NEED FOR NORMAL SPEECH PRIVACY AS PER FGI 2022 TABLE 1.2-6 - EXCEPT AT CORRIDOR WALLS WITH DOORS - ASSUMING A BACKGROUND SOUND LEVEL OF AT LEAST 30DBA. WHEN SELECTING ASSEMBLIES BASED ON THEIR TESTED OR PUBLISHED STC RATINGS, IT SHOULD BE NOTED THAT LABORATORY 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 CARE ROOMS WHEN BOTH ROOM DOORS TO THE CONNECTING CORRIDOR ARE CLOSED, THE COMPOSITE DEMISING WALL PERFORMANCE REQUIREMENT SHALL BE STC 50
4. THIS IS THE PERFORMANCE REQUIRED FOR THE WALL AROUND THE DOOR. NOTE THAT SOUND ISOLATION IN THESE INSTANCES WILL BE LIMITED BY THE DOORS PERFORMANCE (E.G., STC 20 FOR A CLOSE-FITTED 5-PSF DOOR). 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 FGI 2018 TABLE 1.2-5
6. ELECTRONIC MASKING SHALL PROVIDE A MAXIMUM BACKGROUND LEVEL OF 48 DBA

KEYNOTE LEGEND

KEY	NOTE
1	FURRED PARTITION FRAMES AROUND WINDOW WITH GYPSUM BOARD RETURN AND AT WINDOW SILL.
2	FURRED PARTITION FRAMING GOES UP TO DECK FOR SHOWER ATTACHMENT.
3	FIELD VERIFY THAT THE EXISTING PARTITION MEETS THE NEW SMOKE PARTITION REQUIREMENTS.
7	INFILL DOOR OPENING TO MATCH EXISTING MATERIALS AND SCHEDULED FINISHES.

KEY PLAN



LEVEL 1 - KEYPLAN

1 DIMENSION PLAN - LEVEL 1
1/8" = 1'-0"

Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

DUDLEY G. CAMPBELL
STATE OF MISSOURI
NUMBER A-2021009547

DATE SIGNED: 07.30.25

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DIMENSION FLOOR PLAN - LEVEL 1

AE102

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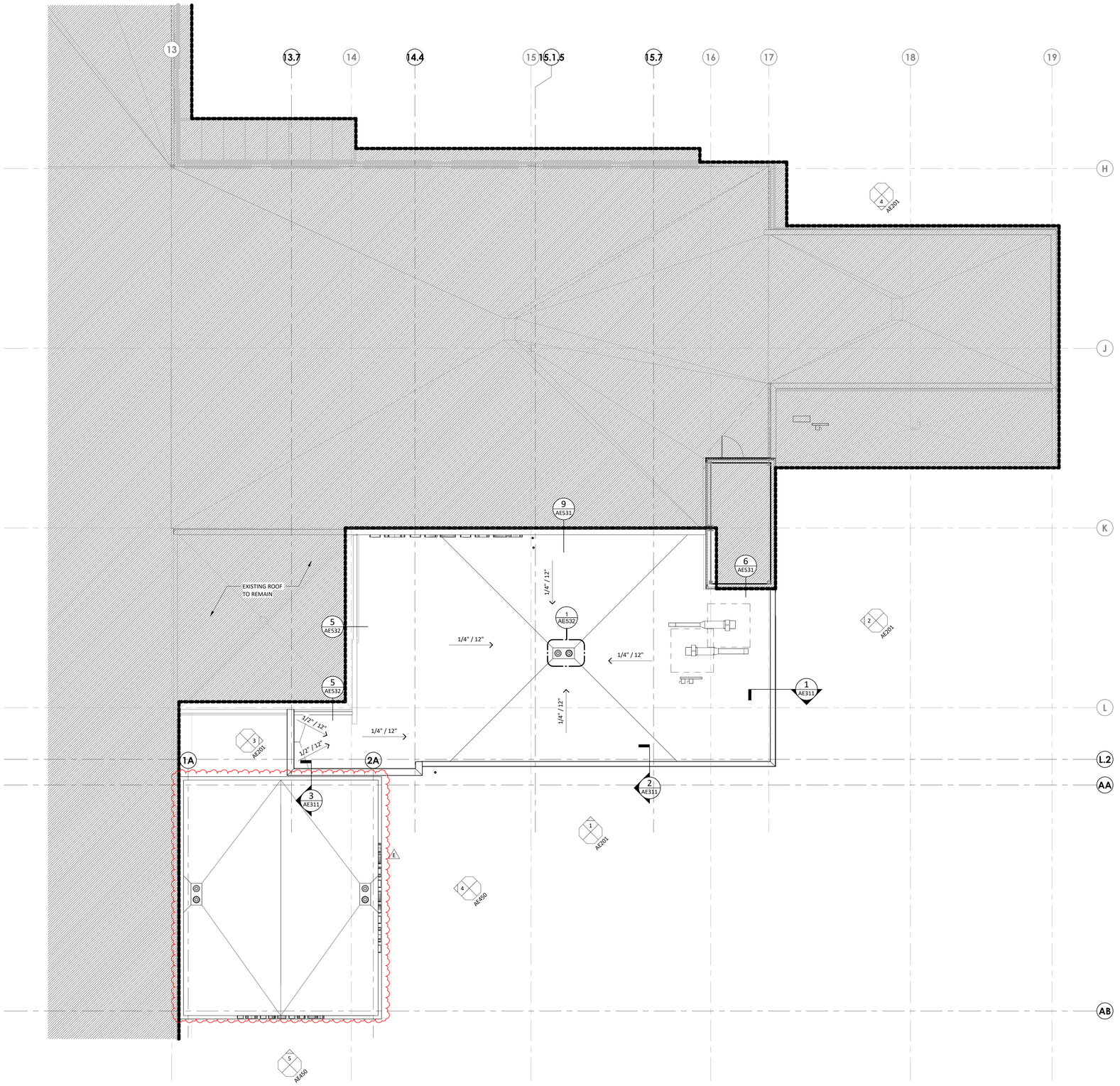


1 OVERALL ROOF PLAN
1/8" = 1'-0"

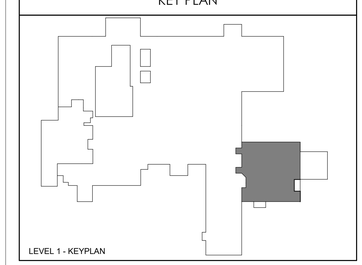
ROOF PLANS GENERAL NOTES

1. ROOF SLOPE TO BE A MINIMUM OF 1/4" PER FOOT
2. FINAL ROOF WALWAY PAD LOCATIONS TO BE CONFIRMED BY FACILITY

KEYNOTE LEGEND

KEY	NOTE

KEY PLAN



LEVEL 1 - KEYPLAN

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

STATE OF MISSOURI
DUDLEY C. CAMPBELL
NUMBER A-2021029643

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MISSOURI DHSS

FACILITY NUMBER:
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OVERALL ROOF PLAN

AE111

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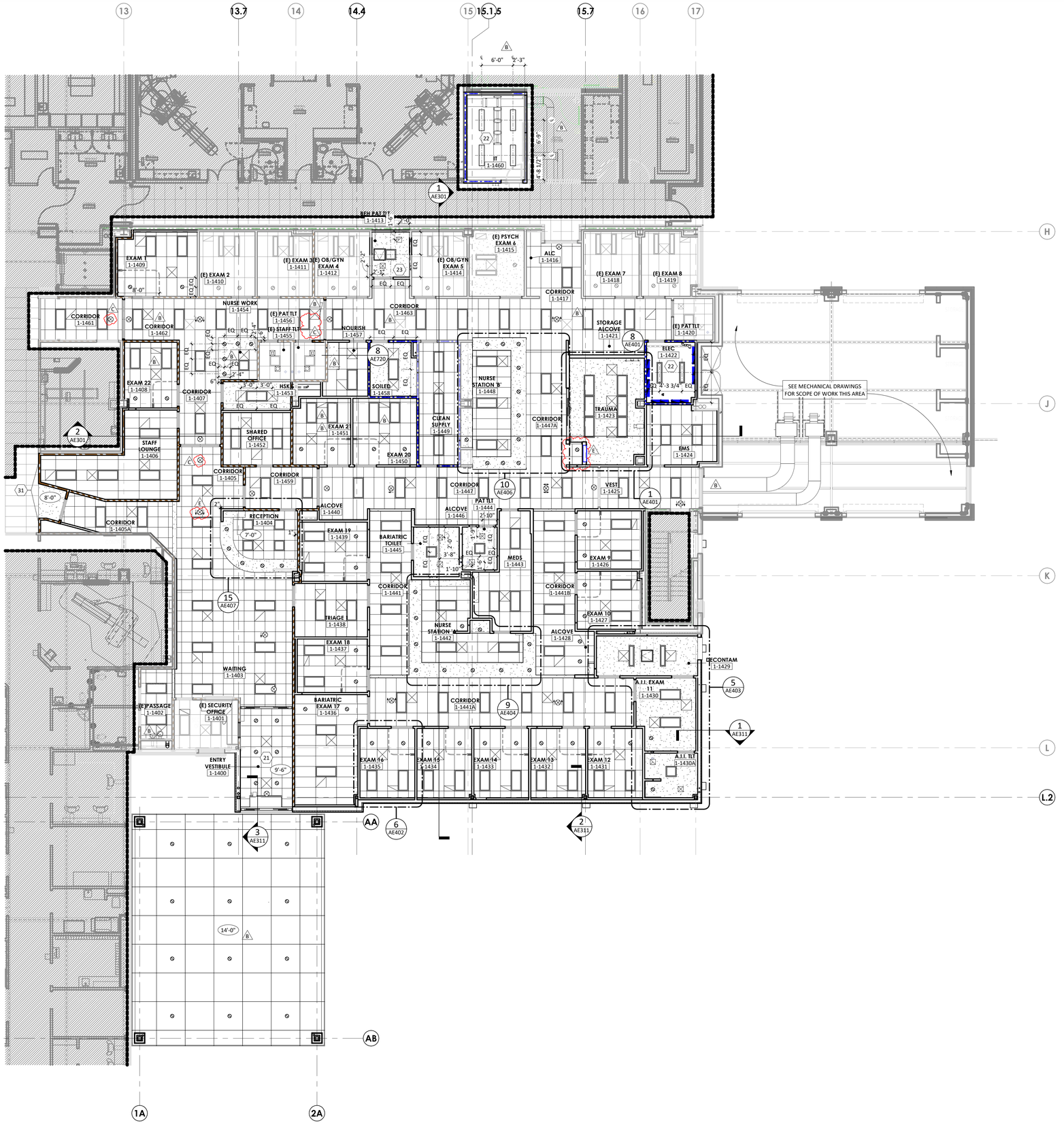


1 REFLECTED CEILING PLAN - LEVEL 1
1/8" = 1'-0"

REFLECTED CEILING GENERAL NOTES

1. CEILING HEIGHTS 9'-0" AFF UNLESS NOTED OTHERWISE. ALL SOFFIT HEIGHTS 8'-0" AFF UNLESS NOTED OTHERWISE.
2. CENTER CEILING SYSTEMS IN ROOMS UNLESS NOTED OTHERWISE.
3. CENTER SPRINKLER HEADS, SPEAKERS, RECESSED LIGHTS, AND SMOKE OR THERMAL DETECTORS IN CEILING TILE UNLESS NOTED OTHERWISE.
4. EXTEND SOFFIT GYPSUM BOARD TO 6" ABOVE FINISHED CEILING.
5. IF SPECIFIED HEIGHT OF FINISHED CEILING NEEDS TO BE LOWERED DUE TO CONDITIONS FOUND DURING CONSTRUCTION OR DEMOLITION, CONTACT ARCHITECT IMMEDIATELY.
6. PROVIDE ACCESS PANELS AS NECESSARY FOR VALVES AND DAMPERS IN GYPSUM BOARD CEILINGS.
7. ALL SOFFIT FACES SHALL RECIEVE SAME PAINT COLOR. SEE PLAN FOR COLOR ASSIGNMENTS

REFLECTED CEILING LEGEND

EXISTING	NEW	
		2 X 2 ACOUSTICAL CEILING GRID SYSTEM
		2 X 4 ACOUSTICAL CEILING GRID SYSTEM
		GYPSUM BOARD
		RECESSED FLUORESCENT / LED FIXTURE
		SURFACE MOUNT FLUORESCENT / LED FIXTURE
		FLUORESCENT / LED STRIP LIGHT
		LINEAR PENDENT STRIP LIGHT
		LINEAR PENDENT LIGHT
		PENDENT LIGHT
		RECESSED DOWNLIGHT
		EMERGENCY EXIT SIGN
		SPEAKER
		SMOKE DETECTOR
		SPRINKLER
		UNDER CABINET LIGHT
		LINEAR WALL LIGHT
		WALL SCONCE
		ACCESS PANEL (DIMENSIONED ON PLAN)
		SUPPLY DIFFUSER
		RETURN AIR GRILLE
		EXHAUST GRILLE
		CURTAIN TRACK

PARTITION LEGEND

EXISTING	NEW	
		NON-RATED PARTITION
		2-HOUR FIRE BARRIER
		1-HOUR FIRE BARRIER
		1-HOUR SMOKE BARRIER
		SMOKE PARTITION
		1-HOUR FIRE PARTITION

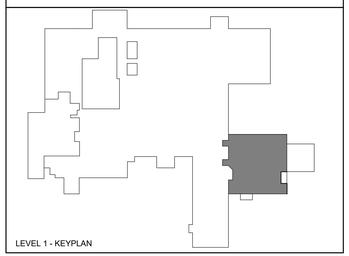
LIMITS OF CONSTRUCTION (SHADE INDICATES AREA OUTSIDE OF SCOPE)

B

KEYNOTE LEGEND

KEY	NOTE
21	PROVIDE HOLD-DOWN CLIPS ON LAY-IN ACOUSTIC CEILING PANELS.
22	NO FINISH CEILING SYSTEM IN THIS ROOM.
23	PROVIDE ANTI-LIGATURE / TAMPER PROOF LIGHT FIXTURES, CEILING MOUNTED DEVICES AND MECHANICAL GRILLES IN THIS ROOM.
31	PATCH EXISTING CEILING IF NEEDED DUE TO NEW CONSTRUCTION.

KEY PLAN



LEVEL 1 - KEYPLAN

Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

STATE OF MISSOURI
DUDLEY G. CAMPBELL
NUMBER A-2021009549

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E	DESIGN COORDINATION	2025/07/30

DATE:	2025/04/18
SCALE:	1/8" = 1'-0"
DRAWN:	JV, LL
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

REFLECTED CEILING PLAN - LEVEL 1

AE181

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/6406.24.0003 HCA - LSMC ED Expansion_R23.rvt

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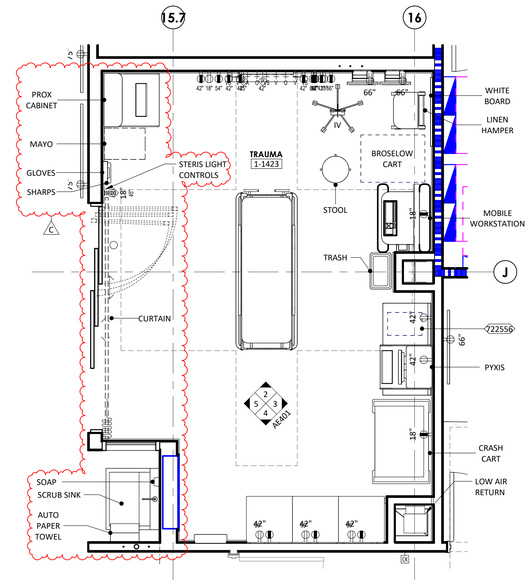
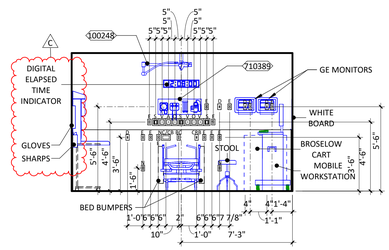
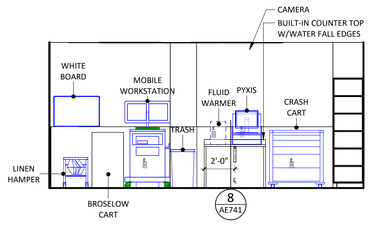


1 TRAUMA
3/8" = 1'-0"



2 TRAUMA - A
1/4" = 1'-0"



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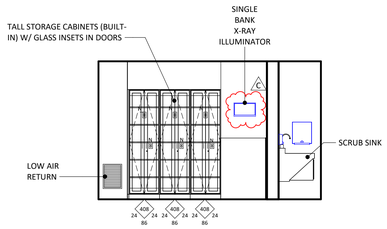
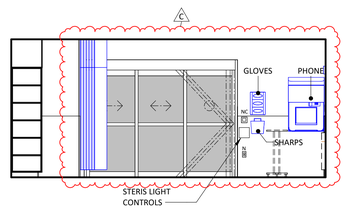


4 TRAUMA - C
1/4" = 1'-0"



5 TRAUMA - D
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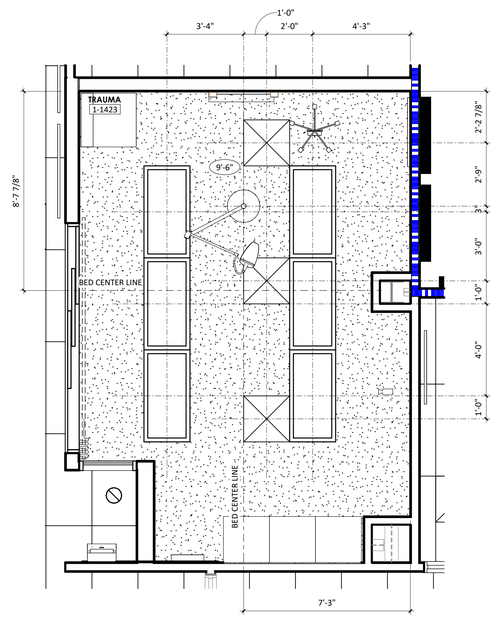
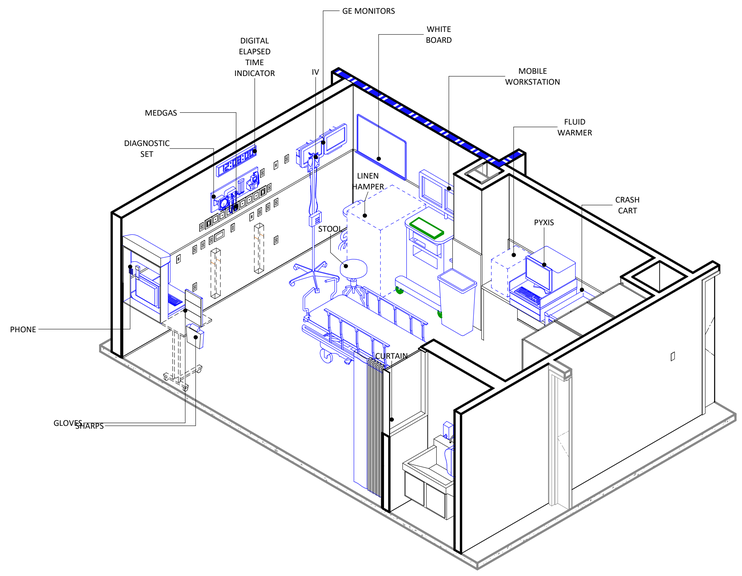
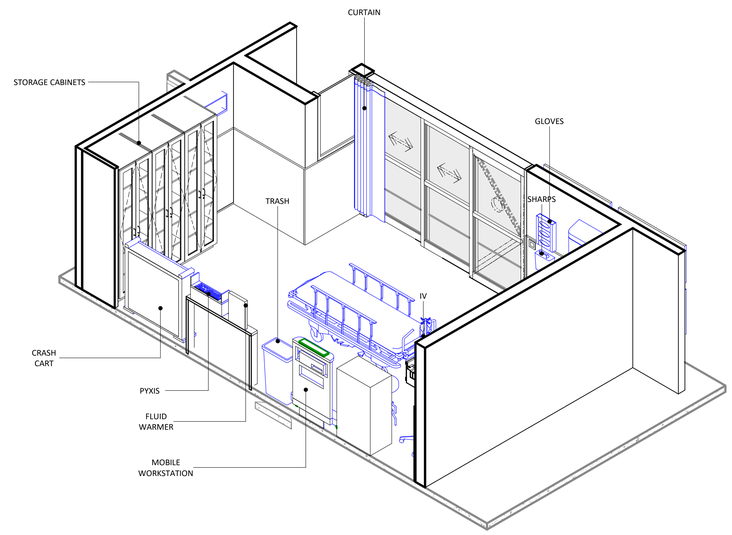


8 TRAUMA ROOM - RCP
3/8" = 1'-0"



AXO - TRAUMA ROOM - HEADWALL
6



7 TRAUMA ROOM - FOOTWALL

ANNOTATION PLAN GENERAL NOTES

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2. DIMENSIONS MEASURE FROM THE EXPOSED SURFACE OF EXISTING WALLS, PARTITIONS, COLUMNS, ETC.; NEW PARTITIONS ARE DIMENSIONED TO THE FACE OF THE FRAMING; MEASURE AND VERIFY DIMENSIONS IN FIELD.
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8. ALL CASEWORK COUNTERTOPS TO OVERHANG CABINET BY 1".

OFCI EQUIPMENT SCHEDULE

HCA EQUIP NO	ABBREV	DESCRIPTION	FURNISHED BY	INSTALLED BY
100248	SURGICAL LIGHT	Maquet_LED_Surgical_Light	OF	CI
710389	DIAGNOSTIC SET	10_SPEQ_ Diagnostic Set_ FB_ v01	OF	CI
722556	FLUID WARMER	FLUID WARMER	OF	CI

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

STATE OF MISSOURI
DUDLEY G. CAMPBELL
NUMBER A-2021009549

DATE SIGNED: 07.30.25

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
C	STATE - 2ND REVIEW	2025/07/30

DATE:	2025/04/18
SCALE:	As indicated
DRAWN:	JV, LL
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

ENLARGED PLANS, INTERIOR ELEVATIONS & 3D VIEWS - TRAUMA

AE401

Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rv123/6406.24.0003 HCA - LSMC ED Expansion_R23.rvt
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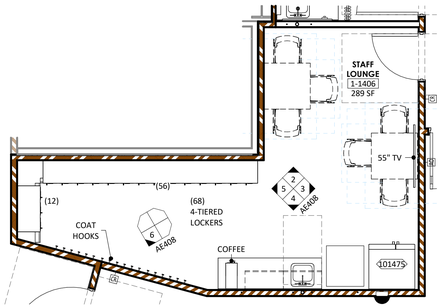
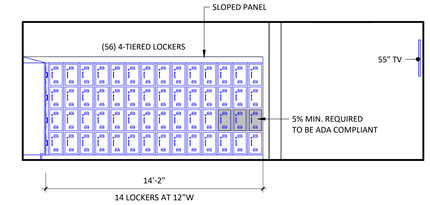
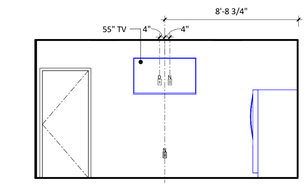


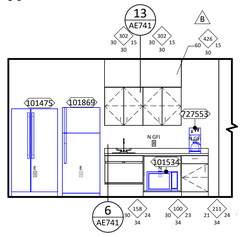
1 STAFF LOUNGE
1/4" = 1'-0"



2 STAFF LOUNGE
1/4" = 1'-0"

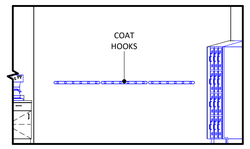


3 STAFF LOUNGE
1/4" = 1'-0"

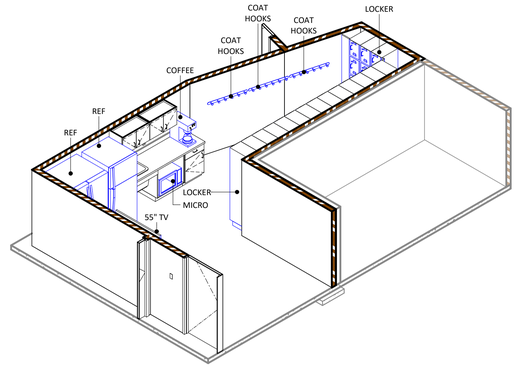


4 STAFF LOUNGE
1/4" = 1'-0"

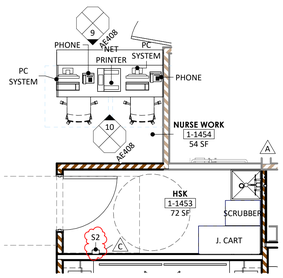
5 STAFF LOUNGE
1/4" = 1'-0"



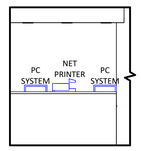
6 STAFF LOUNGE
1/4" = 1'-0"



7 STAFF LOUNGE



8 NURSE WORK - HSK
1/4" = 1'-0"



9 NURSE WORK - FRONT
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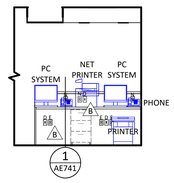
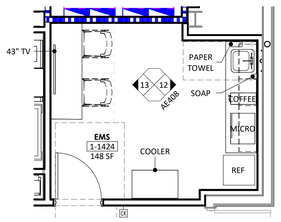
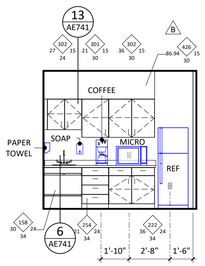


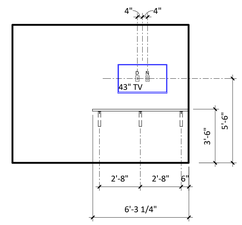
10 NURSE WORK
1/4" = 1'-0"



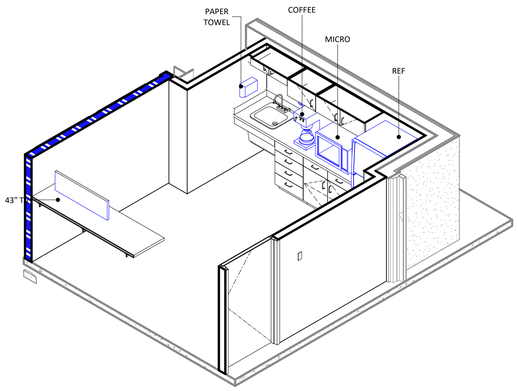
11 EMS
1/4" = 1'-0"



12 EMS
1/4" = 1'-0"



13 EMS
1/4" = 1'-0"



14 EMS

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OFCI EQUIPMENT SCHEDULE

HCA EQUIP NO	ABBREV	DESCRIPTION	FURNISHED BY	INSTALLED BY
101475	REF	REFRIGERATOR - SIDE BY SIDE	OF	CI
101534	MICRO	<varies>	OF	CI
101869	REF	REFRIGERATOR WITH TOP FREEZER	OF	CI
722556	FLUID WARMER	FLUID WARMER	OF	CI
727553	COFFEE	10_ SPEQ_ Coffee Maker Small_ FB_ v01 2	OF	CI

Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

STATE OF MISSOURI
DUDLEY G. CAMPBELL
NUMBER A-2021009549

DATE SIGNED: 07.30.25

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
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B	DESIGN COORDINATION	2025/06/05
C	STATE - 2ND REVIEW	2025/07/30

DATE:	2025/04/18
SCALE:	1/4" = 1'-0"
DRAWN:	JV, LL
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

ENLARGED PLANS, INTERIOR ELEVATIONS & 3D VIEWS - STAFF LOUNGE, NURSE WORK, EMS

AE408

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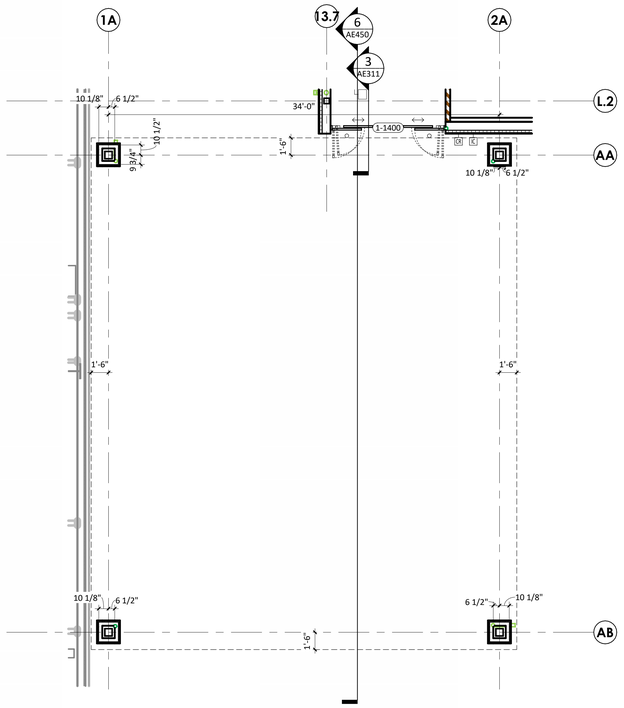
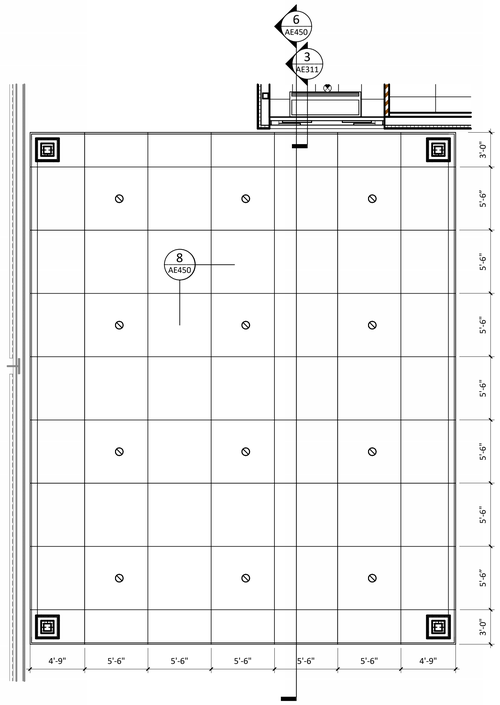


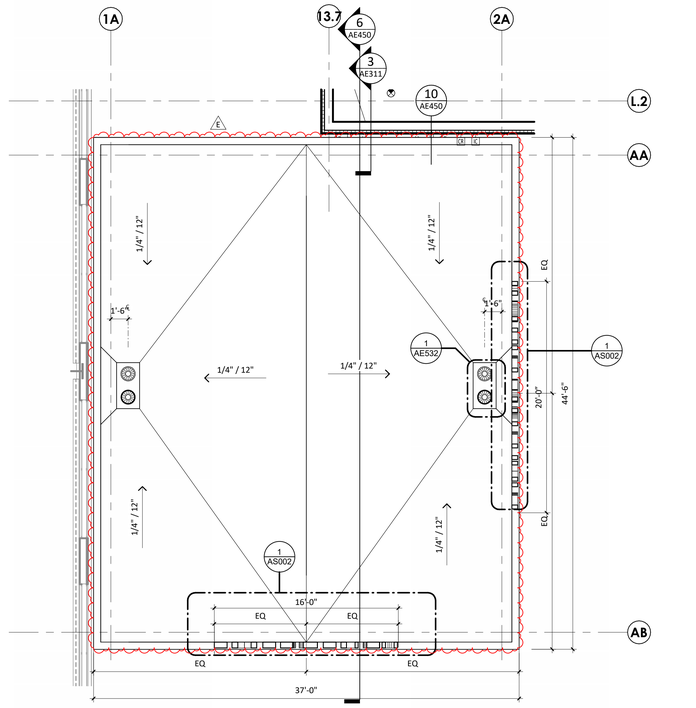
1 ENLARGED FLOOR PLAN - CANOPY A

3/16" = 1'-0"



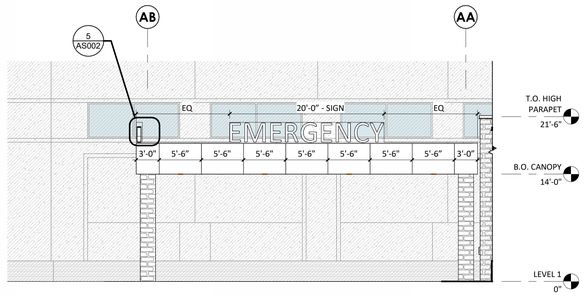
2 ENLARGED RCP - CANOPY

3/16" = 1'-0"



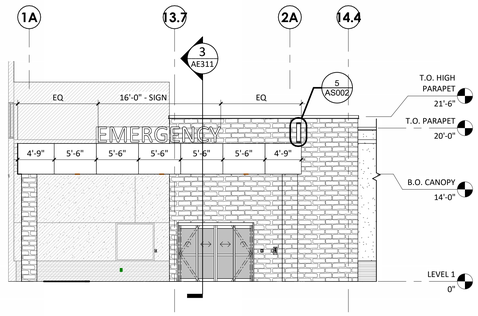
3 CANOPY A - ROOF PLAN

3/16" = 1'-0"



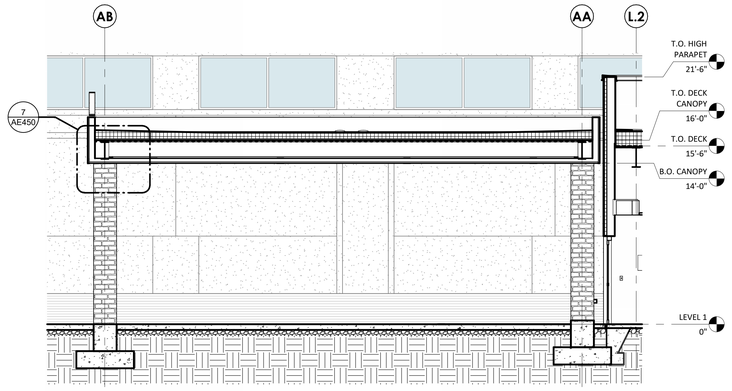
4 CANOPY - EAST ELEVATION

1/8" = 1'-0"



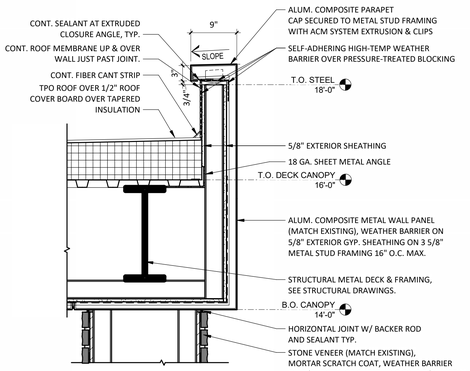
5 CANOPY - SOUTH ELEVATION

1/8" = 1'-0"



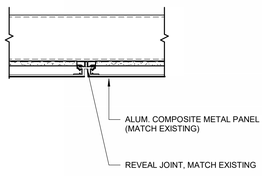
6 CANOPY SECTION

3/16" = 1'-0"



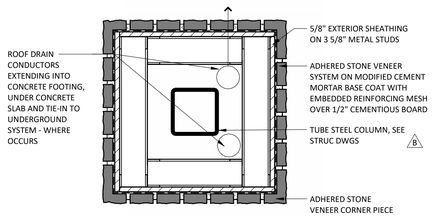
7 CANOPY EDGE

1" = 1'-0"



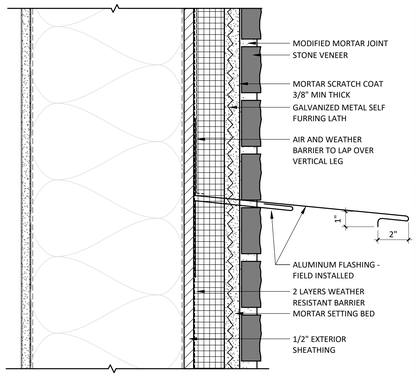
8 CANOPY SOFFIT REVEAL JOINT

1 1/2" = 1'-0"



9 CANOPY COLUMN

1 1/2" = 1'-0"



10 CANOPY EDGE RAIN SHIELD

3" = 1'-0"

11 EMERGENCY CANOPY 3D VIEW

Devenney GROUP

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6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

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DATE:	2025/04/18
SCALE:	As indicated
DRAWN:	JV, LL
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

ENLARGED CANOPY PLANS, SECTIONS & DETAILS

AE450

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

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DOOR SCHEDULE

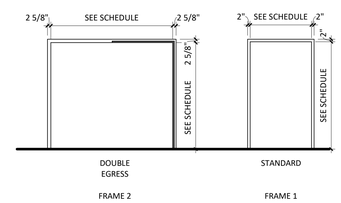
DOOR MATERIAL			DOOR GLAZING			FRAME MATERIAL			FRAME GLAZING			REMARKS		
WD	-	SOLID CORE WOOD	T	-	TEMPERED	HM	-	HOLLOW METAL	T	-	TEMPERED	1	-	EXISTING DOOR FRAMES TO REMAIN AND PAINTED TO MATCH NEW DOOR FRAME FINISH. REPLACE DOOR AND HARDWARE.
WDPL	-	PLASTIC LAMINATE WOOD	L	-	LAMINATED	AL	-	ALUMINUM	L	-	LAMINATED			
WDIR	-	IMPACT RESISTANT WOOD	FR	-	FIRE RESISTIVE	STL	-	STEEL	FR	-	FIRE RESISTIVE			
HM	-	HOLLOW METAL	FP	-	FIRE PROTECTIVE	EXIST	-	EXISTING	FP	-	FIRE PROTECTIVE	2	-	MAGNETIC HOLD-OPEN
AL	-	ALUMINUM	SP	-	SPANDREL				SP	-	SPANDREL			
STL	-	STEEL	IGU	-	INSULATED GLASS UNIT				IGU	-	INSULATED GLASS UNIT			
EXIST	-	EXISTING												

DOOR SCHEDULE

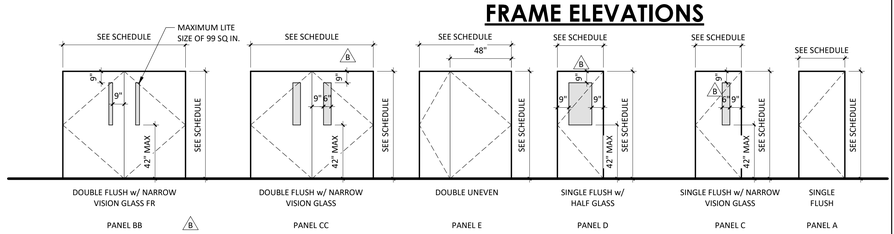
ROOM NUMBER	WIDTH	HEIGHT	DOOR PANEL			FRAME		DETAILS			RATING	HARDWARE	REMARKS	REV
			MATERIAL	ELEV.	GLAZING	MATERIAL	ELEV.	HEAD	JAMB	SILL	FIRE			
LEVEL 1														A B C
1-1400	10'-0"	7'-8"	AL/GL	A4	IGU	AL	A4	10/AE631	9/AE631	8/AE631	-	109A		
1-1403	10'-0"	7'-8"	AL/GL	A4	T	AL	A4	10/AE631	9/AE631		-	110A		
1-1404	3'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	SMOKE	009A	1	B
1-1405	4'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	SMOKE	009B		B
1-1405A	4'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	20 MIN	010C		B
1-1406	3'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	SMOKE	009A		
1-1407	7'-4"	7'-0"	WDPL	CC	T	HM	2	7/AE631	7/AE631	1/AE631	SMOKE	012E		
1-1408	4'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	SMOKE	008C		
1-1409	4'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	SMOKE	008C		
1-1410	4'-0"	7'-0"	WDPL	A	-	EXIST	EXIST	EXIST	EXIST	EXIST	SMOKE	008C	1	
1-1411	4'-0"	7'-0"	WDPL	A	-	EXIST	EXIST	EXIST	EXIST	EXIST	SMOKE	008C	1	
1-1412	4'-0"	7'-0"	WDPL	A	-	EXIST	EXIST	EXIST	EXIST	EXIST	-	008C	1	
1-1413	3'-6"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	-	005B		
1-1414	4'-0"	7'-0"	WDPL	A	-	EXIST	EXIST	EXIST	EXIST	EXIST	-	008C	1	
1-1415	4'-0"	7'-0"	WDPL	A	-	EXIST	EXIST	EXIST	EXIST	EXIST	-	401C	1	
1-1418	4'-0"	7'-0"	WDPL	A	-	EXIST	EXIST	EXIST	EXIST	EXIST	-	008C	1	
1-1419	4'-0"	7'-0"	WDPL	A	-	EXIST	EXIST	EXIST	EXIST	EXIST	-	008C	1	
1-1420	3'-0"	7'-0"	WDPL	A	-	EXIST	EXIST	EXIST	EXIST	EXIST	-	005C	1	
1-1422	3'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	45 MIN	006A		
1-1423	10'-0"	7'-8"	AL/GL	A3	T	AL	A3	6/AE631	5/AE631	4/AE631	-	110C	72" MIN CLEAR OPENING REQUIRED, TRIPLE SLIDER, BREAK AWAY, MANUALLY OPERATED, SELF CLOSING, NO THRESHOLD	C
1-1424	3'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	-	008B		
1-1425	7'-4"	7'-0"	WDPL	AA		EXIST	1	EXIST	EXIST	EXIST				B
1-1426	4'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	-	008C		
1-1427	4'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	-	008C		
1-1429	4'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	-	009D.1		
1-1429A	4'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	-	009D.1		
1-1429B	4'-0"	7'-6"	HM	A	-	HM	1	12/AE631	12/AE631	11/AE631	-	102D		
1-1430	4'-0"	7'-0"	WDPL/GL	D	T	HM	1	3/AE631	2/AE631	1/AE631	-	008D	INTERGRAL BLINDS OPERABLE BOTH SIDES	
1-1430A	3'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	-	002A		
1-1431	4'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	-	008C		
1-1432	4'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	-	008C		
1-1433	4'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	-	008C		
1-1434	4'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	-	008C		
1-1435	4'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	-	008C		
1-1436	5'-0"	7'-0"	WDPL	E	-	HM	2	3/AE631	2/AE631	1/AE631	-	008G		
1-1437	4'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	-	008C		
1-1438	4'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	-	008C		
1-1438A	4'-0"	7'-0"	WDPL/GL	D	T	HM	1	3/AE631	2/AE631	1/AE631	SMOKE	009B.1		
1-1439	4'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	-	008C		
1-1443	3'-0"	7'-0"	WDPL/GL	C	T	HM	1	3/AE631	2/AE631	1/AE631	-	009A		
1-1443A	3'-0"	7'-0"	WDPL/GL	C	T	HM	1	3/AE631	2/AE631	1/AE631	-	009A		
1-1444	3'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	-	005B		
1-1445	3'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	-	005D		
1-1449	3'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	45 MIN	009A		
1-1449A	3'-0"	7'-0"	WDPL	A	-	EXIST	EXIST	EXIST	EXIST	EXIST	45 MIN	009A	1	B
1-1450	4'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	-	008C		
1-1451	4'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	-	008C		
1-1452	3'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	SMOKE	004A		B
1-1453	3'-6"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	SMOKE	006B		A
1-1455	3'-0"	7'-0"	WDPL	A	-	EXIST	EXIST	EXIST	EXIST	EXIST	SMOKE	005B	1, 180 DEGREE SWING, CL, KP	
1-1456	3'-0"	7'-0"	WDPL	A	-	EXIST	EXIST	EXIST	EXIST	EXIST	SMOKE	005B	180 DEGREE SWING, CL, KP	
1-1457	3'-0"	7'-0"	WDPL/GL	D	T	HM	1	3/AE631	2/AE631	1/AE631	-	009A	1	B
1-1458	3'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	45 MIN	009A		
1-1460	4'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	45 MIN	009B	1	B
1-1461	7'-4"	7'-0"	WDPL/GL	BB	T	HM	2	7/AE631	7/AE631	1/AE631	20 MIN	012E		B
1-1462	7'-4"	7'-0"	WDPL/GL	CC	T	HM	2	7/AE631	7/AE631	1/AE631	SMOKE	011A	2	
1-1463	7'-0"	7'-0"	WDPL/GL	CC	T	HM	1	3/AE631	2/AE631	1/AE631	SMOKE	013A	2	
1-1500	7'-0"	7'-0"	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	20 MIN	013C	UPGRADE HARDWARE FOR 1-HR SMOKE BARRIER	

DOOR GENERAL NOTES

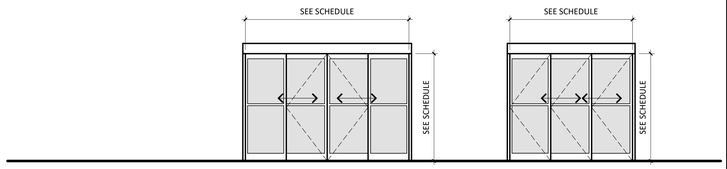
1. THE PURPOSE OF THIS SHEET IS TO DESCRIBE AND ILLUSTRATE DOOR TYPES. NOT ALL DOOR TYPES SHOWN ARE NECESSARILY USED. SEE DOOR MARK SCHEDULE FOR DOOR TYPES USED.
2. FIRE DOORS AND FRAMES SHALL HAVE AN APPROVED LABEL OR LISTING MARK INDICATING THE FIRE PROTECTION RATING WHICH IS PERMANENTLY AFFIXED AT THE FACTORY WHERE FABRICATION AND ASSEMBLY ARE DONE.
3. SMOKE BARRIER DOORS INSTALLED ACROSS THE CORRIDORS AND EXIT ACCESS DOORS LOCATED AT ZONE BOUNDARIES SHALL BE EQUIPPED WITH APPROVED VISION PANELS.
4. ALL SMOKE BARRIER DOORS LOCATED ON THE FLOOR OR IN THE AFFECTED ZONE SHALL COMPLY WITH CURRENT APPLICABLE CODES AND SHALL BE AUTOMATIC CLOSING UPON ACTIVATION OF THE FIRE ALARM OR FIRE SPRINKLER SYSTEM.
5. ALL DOORS IN SMOKE BARRIERS AND OPENING INTO RATED EXIT WAYS SHALL BEAR AN APPROVED LABEL DISPLAYING THE LETTER "S" PER CURRENT APPLICABLE CODES.
6. FIRE ASSEMBLIES REQUIRED TO HAVE 1 ½ HOURS, 1 HOUR OR ¾ HOUR FIRE PROTECTION RATING SHALL BE EITHER AUTOMATIC OR SELF CLOSING FIRE ASSEMBLIES. AUTOMATIC CLOSING FIRE ASSEMBLIES TO BE ACTIVATED BY AN INCREASE IN TEMPERATURE SHALL HAVE HEAT-ACTUATING DEVICES INSTALLED ON EACH SIDE OF THE WALL AT THE CEILING HEIGHT WHERE THE CEILING IS MORE THAN 3 FEET ABOVE THE TOP OF THE OPENING OR BY A SINGLE FUSIBLE LINK IN THE OPENING INCORPORATED IN THE CLOSING DEVICE.
7. GLASS:
   A. INTERIOR DOORS:
      1. NON-RATED DOORS SHALL HAVE ¼" CLEAR TEMPERED GLASS.
      2. ALL RATED DOORS – SEE SPECIFICATIONS.
      3. LEAD LINED DOORS SHALL HAVE LEAD GLASS.
8. GLAZING IN THE FOLLOWING LISTED AREAS SHALL BE DEEMED TO BE LOCATED IN HAZARDOUS LOCATIONS AND SUBJECT TO HUMAN IMPACT:
   1. INGRESS AND EGRESS DOORS.
   2. FIXED PANELS IN SWINGING DOORS.
   3. ALL GLAZING WITHIN 18" OF THE FLOOR AND WITHIN 12" OF A DOOR SHALL BE TEMPERED.
9. EACH LITE OF THE GLAZING SHALL BEAR THE MANUFACTURER'S LABEL DESIGNATING THE TYPE AND THICKNESS OF GLASS. WHEN APPROVED BY THE AGENCY, LABELS MAY BE OMITTED FROM OTHER THAN GLAZING MATERIALS, PROVIDED AN AFFIDAVIT IS FURNISHED BY THE GLAZING CONTRACTOR CERTIFYING THAT EACH LIGHT IS GLAZED IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. IDENTIFICATION OF GLAZING IN HAZARDOUS LOCATIONS AND SUBJECT TO HUMAN IMPACT SHALL BE ETCHED OR CERAMIC FIRED ON THE GLASS AND READABLE FROM THE INSIDE OF THE BUILDING AFTER INSTALLATION.
10. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
11. PANIC HARDWARE SHALL COMPLY WITH THE REQUIREMENTS OF CURRENT APPLICABLE CODES. THE ACTIVATING MEMBER SHALL BE MOUNTED AT A HEIGHT OF NOT LESS THAN 30 INCHES NOR MORE THAN 44 INCHES ABOVE THE FLOOR. THE UNLATCHING FORCE SHALL NOT EXCEED 15 POUNDS WHEN APPLIED IN THE DIRECTION OF TRAVEL.
12. DOOR ASSEMBLIES, APPROACHES AND FINISH HARDWARE SHALL BE IN COMPLIANCE WITH ACCESSIBILITY STANDARDS.
13. THE MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED THE FOLLOWING:
   A. EXTERIOR DOORS 5.0 POUNDS
   B. INTERIOR DOORS 5.0 POUNDS
   C. FIRE DOORS 15.0 POUNDS
14. WATER CLOSET ROOMS SHALL BE SEPARATED FROM FOOD PREPARATION AND STORAGE AREAS WITH TIGHT FITTING DOORS.
15. DOOR OPENING LOCATIONS:
   A. IMMEDIATELY (5") ADJACENT TO A FLANKING WALL UNLESS NOTED OTHERWISE
   B. AT THE CENTERLINE OF THE ROOM, UNLESS NOTED OTHERWISE
   C. CENTERED ON A GRID DOOR OPENINGS IN OTHER LOCATIONS ARE LOCATED BY DIMENSIONS
16. SEE SPECIFICATIONS FOR HARDWARE SCHEDULE
17. ALL DOOR FRAMES ARE WELDED FRAMES, UNLESS NOTED OTHERWISE.
18. FINISH FLOOR TRANSITIONS OCCUR AT CENTERLINE OF DOORS, UNLESS NOTED OTHERWISE.
19. ALL INTERIOR DOORS WITH FIRE RATINGS GREATER THAN 20 MINUTE SHALL HAVE A NON-COMBUSTIBLE SILL WITH AN UNDERCUT OF 3/8" MAXIMUM ABOVE THE SILL.
20. WEIGHT OF LEAD-LINED DOORS, LEAD STRIPS IN DOOR FRAMES AND LEAD GLAZING WHERE OCCURS SHALL MATCH WEIGHT OF LEAD IN ADJACENT PARTITION, UNLESS NOTED OTHERWISE. LEAD LINING SHALL BE INSTALLED SUCH THAT SHIELDING IS CONTINUOUS IN INSTALLED DOORWAY.
21. ALL EXTERIOR DOORS SHALL HAVE METAL THRESHOLDS. SEE HARDWARE SCHEDULE.
22. WHERE DOOR HOLD-OPEN DEVICES OR DOOR STOPS OCCUR AT WALLS, PROVIDE BACKING PLATE PER BACKING PLATE SCHEDULE.
23. ALL SOLID CORE WOOD DOORS TO BE STAIN GRADE, UNLESS NOTED OTHERWISE (SEE DOOR SCHEDULE).
24. DOORS WITH AUTO DOOR OPENINGS SHALL MEET REQUIREMENTS IN CURRENT APPLICABLE CODES.
25. THRESHOLDS AT DOORWAYS AND TRANSITION STRIPS SHALL NOT EXCEED 1/2" IN HEIGHT. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.



FRAME ELEVATIONS



DOOR PANEL ELEVATIONS



DOOR ASSEMBLY ELEVATIONS

Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

DATE SIGNED: 07.30.25

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
A	CITY - 2ND REVIEW	2025/06/05
B	DESIGN COORDINATION	2025/06/05
C	STATE - 2ND REVIEW	2025/07/30

DATE:	2025/04/18
SCALE:	1/4" = 1'-0"
DRAWN:	JV
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

DOOR SCHEDULES, DOOR & FRAME TYPES

AE601

Notice of Alternate Billing or Payment Cycle: A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

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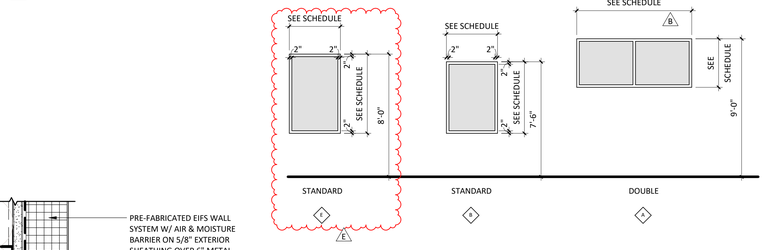
WINDOW SCHEDULE		
FRAME MATERIAL	GLAZING	REMARKS
HM - HOLLOW METAL	T - TEMPERED	1 - INTEGRAL VISION CONTROL WINDOW TO MATCH EXISTING AT GLAZING NOTED 'VC' ON EXTERIOR ELEVATIONS
AL - ALUMINUM	L - LAMINATED	
STL - STEEL	FR - FIRE RESISTIVE	
E - EXISTING	FP - FIRE PROTECTIVE	
	IGU - INSULATED GLASS UNIT	

Window Schedule

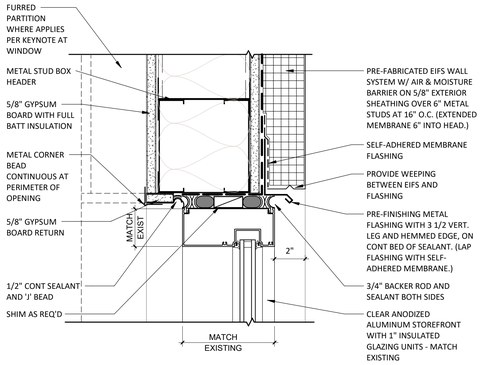
ID	WIDTH	HEIGHT	MATERIAL		DETAILS			REMARKS
			GLAZING	FRAME	HEAD	JAMB	SILL	
A	12'-0"	2'-8"	IGU	AL	6/AE651	5/AE651	4/AE651	
B	3'-0"	5'-0"	T	HM	3/AE651	2/AE651	1/AE651	SMOKE
D	11'-6"	4'-6"	LOUVER	AL	13/AE501	16/AE501	13/AE501	
E	2'-6"	4'-0"	T	HM	3/AE651	2/AE651	1/AE651	INTERGRAL BLIND



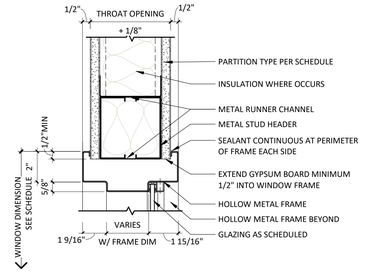
WINDOW ELEVATIONS

GLAZING GENERAL NOTES

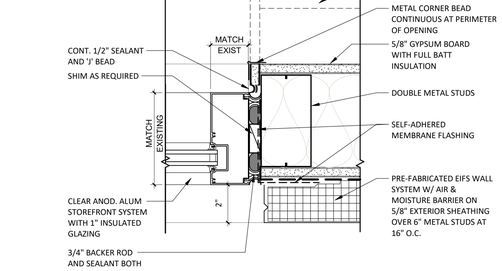
1. THE PURPOSE OF THIS SHEET IS TO DESCRIBE AND ILLUSTRATE WINDOW TYPES, NOT ALL WINDOW TYPES SHOWN ARE NECESSARILY USED. SEE WINDOW SCHEDULE FOR WINDOW TYPES USED.
2. IRE RATED WINDOWS, SHALL HAVE AN APPROVED LABEL OR LISTING MARK, INDICATING THE FIRE PROTECTION RATING WHICH IS PERMANENTLY AFFIXED AT HE FACTORY WHERE FABRICATION AND ASSEMBLY ARE ONE.
3. GLAZING:
   A. INTERIOR
      1. NON-RATED DOOR SHALL HAVE ¼" CLEAR TEMPERED GLASS
      2. RATED DOORS SHALL HAVE ¼" CLEAR FIRE RATED GLASS
      3. LEAD LINED DOORS SHALL HAVE LEAD GLASS
   B. MAXIMUM GLAZING IN FIRE RATED DOORS:
      1. 20 MINUTE DOORS: 1296 SQUARE INCHES MAXIMUM
      2. 60 MINUTE DOORS: 100 SQUARE INCHES MAXIMUM
      3. 90 MINUTE DOORS: 100 SQUARE INCHES MAXIMUM
4. GLAZING IN THE FOLLOWING LISTED AREAS SHALL BE DEEMED TO BE LOCATED IN HAZARDOUS LOCATIONS AND SUBJECT TO HUMAN IMPACT:
   A. INGRESS AND EGRESS DOORS.
   B. FIXED PANELS IN SWINGING DOORS.
   C. WITHIN 18" OF THE FLOOR SHALL BE TEMPERED.
   D. WITHIN 24" OF A DOOR SHALL BE TEMPERED.
5. EACH LITE OF THE GLAZING SHALL BEAR THE MANUFACTURER'S LABEL DESIGNATING THE TYPE AND THICKNESS OF GLASS. IDENTIFICATION OF GLAZING IN HAZARDOUS LOCATIONS AND SUBJECT TO HUMAN IMPACT SHALL BE ETCHED OR CERAMIC FIRED ON THE GLASS AND READABLE FROM THE INSIDE OF THE BUILDING AFTER INSTALLATION.
6. REFER TO SPECIFICATIONS FOR WINDOW COVERING TYPES AND FINISHES.
7. REFER TO SPECIFICATIONS FOR GLAZING MATERIALS.



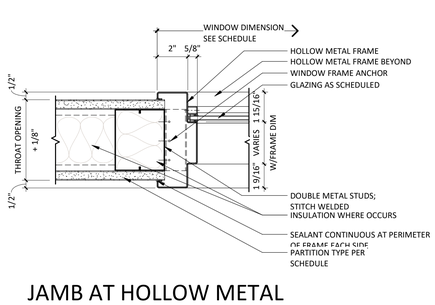
6 ALUMINUM HEAD - EIFS FINISH
3" = 1'-0"



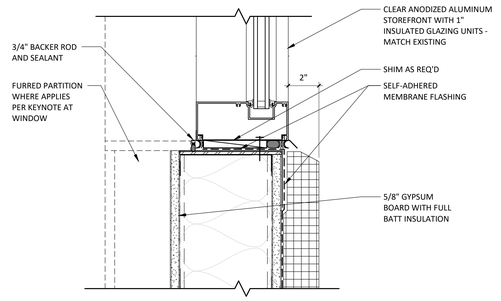
3 HEAD AT HOLLOW METAL WINDOW
3" = 1'-0"



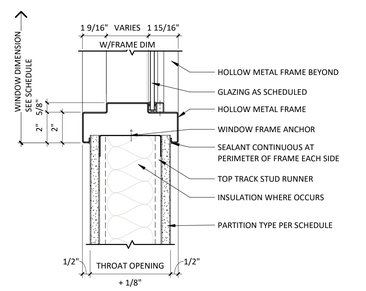
5 ALUMINUM STOREFRONT JAMB - EIFS FINISH
3" = 1'-0"



2 JAMB AT HOLLOW METAL WINDOW
3" = 1'-0"



4 ALUMINUM STOREFRONT SILL - EIFS FINISH
3" = 1'-0"



1 SILL AT HOLLOW METAL WINDOW
3" = 1'-0"

Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

STATE OF MISSOURI
DUDLEY G. CAMPBELL
NUMBER A-2021009649

DATE SIGNED: 07.30.25

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05
C	STATE - 2ND REVIEW	2025/07/30
E	DESIGN COORDINATION	2025/07/30

DATE:	2025/04/18
SCALE:	As indicated
DRAWN:	JV
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

WINDOW SCHEDULES, FRAME TYPES & DETAILS

AE651

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

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FINISH SELECTIONS AND GENERAL NOTES

MATERIAL CONTACTS

Please contact the following representatives for special pricing.

MANUFACTURER	TYPE OF FINISH	NAME, EMAIL, PHONE #
Armstrong Ceilings	Acoustical Ceiling Tile	Hedda Metzler 717.209.2793 hmmetzler@armstrong.com HPG#6924
Bennu Enterprises	Signage	Tony Hatchell 615.226.4577 tony@bennusigns.com
Bonnell Aluminum	Casework Cornerguards	www.bonnellaluminum.com
Carnegie Fabrics	Acoustical Panel Fabric	Betsy Lindell 678.296.0025 betsylindell@witcontract.com
Claridge	Marker Boards/ Tack Boards	Jeff Alldredge 314.363.6536 jeffalldredge@oedreps.com
Corian	Solid Surface	Meg Tucker 629.224.7179 mtucker@oldenkamp.com
Daltile	Ceramic Tile	Abby Finnegan 615.519.9672 abby.finnegan@daltile.com
Durasein	Solid Surface	Pam Dervarics 610.360.5825 pam.dervarics@durasein.com
Emser Tile	Porcelain Tile	Randy Crowder randycrowder@emser.com
Grifform	Solid Surface Transition	www.grifform.com
InPro Corporation, Ferguson	Wall Protection & Shower insert	Anthony Collins 800.222.5556 acollins@inprocorpo.com HPG# 44661
Ketchum Walton CO.	Acoustic Panel - Fabriktrak	Kay Reinhardt 312.550.2967 kreinhardt@ketchumandwalton.com
Fry Reglet	Casework Corner Guard	Nick Green 770.468.2599 nickgreen@fryreglet.com
Logistic Solutions	Floor Purchasing	Logistics Solutions LLC Customersvc@logisolutions.net 615.750.2014
Mannington	Flooring Chairrail and Base	Terri Bailey 615.427.8980 hca@mannington.com HPG#5468
Penco	Metal Lockers	Bill Kreager 888.614.0004 bkreager@storagesystemsul.com HPG#500166
Peter Pepper Products	Clocks, Markerboards & Combo Boards	www.peterpepperproducts.com
Schluter Systems	Metal Trim	Jack Leblanc 225.483.2758 Jack Leblanc@schluter.com
Shaw	Carpet	Ashley Hart 615.878.2293 ashley.hart@shawcontract.com HPG#500169
Sherwin Williams	Interior Paint	Andrew Flippin Andrew.flippin@sherwin.com HPG#5893
Wilsonart	Plastic Laminate	Chris Fleming 615.292.2188 chris.fleming@wilsonart.com

CEILINGS

CODE	ITEM	TYPE/ LOCATION	MANUFACT.	DESCRIPTION
ACT1	Acoustical Ceiling Tile - General	General, Back of House, Staff Areas	Armstrong	Fine Fissured 1714 Medium Texture 24"x48" Square Lay-In with 15/16" Prelude XL Grid, Factory Painted White NRC: 0.70, CAC: 40 *Hold down clips to be used in Vestibules 1-1400 & 1-1425
ACT2	Acoustical Ceiling Tile - Upgraded	Upgraded Public or Patient Areas	Armstrong	Ultima Healthzone High NRC 1445 Fine Texture 24"x24" Square Lay-In with 15/16" Prelude XL Grid, Factory Painted White NRC: 0.80; CAC: 35
ACT3	Acoustical Ceiling Tile - Scrubbable	Scrubbable Ceilings	Armstrong	Clean Room VL Unperforated 868 Smooth Texture 24"x24" Square Lay-In with 15/16" Clean Room Grid, Factory Painted White CAC: 40
EXP	Exposed Ceiling	See Finish Plans		
GYP	Gypsum Board Ceiling	See Finish Plans		See WALLS section for ceiling paints.

WALLS

CODE	ITEM	LOCATION	MANUFACT.	DESCRIPTION
CR1	Rubber Chair Rail	Walls	Mannington	Style: Edge Effects, Chair Rail 650 Color: Mocha 597 Size: 4"H Adhesive: Mannington double-side adhesive tape Mounting Height: 35" from top of chair rail AFF. *Rail must be installed BEFORE walls are painted*
CWT1	Ceramic Wall Tile	Water Fountain	Daltile	Pattern: Artcrafted Color:Tide Rectangle Handcrafted AC29 Size: 3" x 12" x 5/16" thickness Grout: Laticrete, Spectralock Pro Premium Grout Color: Light Pewter 90 Grout Joint: 1/8" Installation Method: 1/3rd offset
EP1	Epoxy Paint	Walls-General	Sherwin Williams	Color: SW9166 Drift of Mist Formula/Finish: Low Gloss Water-Based Epoxy
EP2	Epoxy Paint	Walls-Accent	Sherwin Williams	Color: SW6221 Moody Blue Formula/Finish: Low Gloss Water-Based Epoxy
EP3	Epoxy Paint	GYP Ceilings	Sherwin Williams	Color: SW7007 Ceiling Bright White Formula/Finish: Low Gloss Water-Based Epoxy
EP4	Epoxy Paint	Walls-Psyche Base	Sherwin Williams	Color: SW7645 Thunder Gray Formula/Finish: Low Gloss Water-Based Epoxy
P1	Wall Paint	Walls-General	Sherwin Williams	Color: SW9166 Drift of Mist Formula/Finish: Latex Eggshell
P2	Wall Paint	Walls-Accent	Sherwin Williams	Color: SW6221 Moody Blue Formula/Finish: Latex Eggshell
P3	Wall Paint	Walls-Accent	Sherwin Williams	Color: SW6219 Rain Formula/Finish: Latex Eggshell
P4	Soffit Paint	GYP Soffits-Accent	Sherwin Williams	Color: SW6222 Riverway Formula/Finish: Latex Eggshell
P5	Ceiling Paint	GYP Ceilings	Sherwin Williams	Color: SW7007 Ceiling Bright White Formula/Finish: Latex Eggshell
P6	Metal Paint	Door Frames	Sherwin Williams	Color: SW7645 Thunder Gray Formula/Finish: Semi Gloss Alkyd Enamel
P7	Metal Paint	Inter. Metal Doors, Metal Door Lite, Wood/ Laminate Door Lite	Sherwin Williams	Color: SW7645 Thunder Gray Formula/Finish: Semi Gloss Alkyd Enamel Note: For INTERIOR doors ONLY. See architectural drawings and specifications for all exterior finishes.
P8	Detail Paint	Storage/ Supply	Sherwin Williams	Color: SW6868 Real Red Formula/Finish: Latex Eggshell
PWT1	Porcelain Wall Tile	Walls-Field	Daltile	Pattern: Fabric Art, Modern Linear Color: Taupe ML62 Size: 12"x24" X 5/16" thickness Decontamination Room Grout: Laticrete, Spectralock 2000IG Patient Toilets: Laticrete, Spectralock Pro Premium Grout Color: Light Pewter 90 Grout Joint: 1/8"

BASE

CODE	ITEM	LOCATION	MANUFACT.	DESCRIPTION
IB	Integral Sheet Vinyl Base	Walls-Sheet Vinyl	Mannington	Series and Color: To Match Sheet Vinyl Flooring Height: 6"H Outside Corner: Boot Adhesive: Manufacturer Recommended Notes: Flash cove up walls to form self coved integral base. *Weld Rod to match Sheet Vinyl.
RB1	Rubber Base	Walls-General	Mannington	Style: Optimum Edge TP rubber Height: 4"H, 1/8" thick Color: Mocha 597 Adhesive: Manufacturer Recommended Notes: Coved and continuous rolls. Miter inside corners. Do NOTuse pre-molded outside corners. If installed over sheet wall protection, utilize Mannington's premium contact adhesive.
RB2	Rubber Base	Walls-upgraded	Mannington	Style: Edge Effects, Sophisticate EESOP Rubber Wall Base Height: 4.25"H Color: Mocha 597 Adhesive: Manufacturer Recommended Notes: Miter cut all joints. Utilize matching caulk when installed on top of hard surface. If installed over sheet wall protection, utilize Mannington's premium contact adhesive.

METAL TRIM

CODE	ITEM	LOCATION	MANUFACT.	DESCRIPTION
SCH1	Tile Cove Piece	Walls-Tile	Schluter Systems	Dilex-AHK Finish: Brushed Nickel Anodized Aluminum
SCH2	Tile Edge Trim	Walls-Tile	Schluter Systems	Jolly Aluminum Finish: Brushed Nickel Anodized Aluminum
SCH3	Wall Tile to Resilient Flooring	Walls-Tile	Schluter Systems	Dilex-BWA PVC Finish: Align finished edge of Schluter with face of tile

FLOORING

CODE/ KEY	ITEM	LOCATION	MANUFACT.	DESCRIPTION
C1	Carpet	Walk off Carpet	Shaw	Style: Welcome II Tile 5T031 Color: Sterling 31557 Format: Plank Size: 24"x 24"x 0.362 in. thickness Backing: Polypropylene/Ecoworx Adhesive: Manufacturer Recommended Installation: Quarter Turn
CTF1	Ceramic Tile Floor	Floors-Decontam	Daltile	Style: Keystones Mosaics Color: Urban Putty 0161 Size: 2"x2" x 1/4" thickness Grout: Laticrete, Spectralock 2000IG Grout Color: Walnut 94 Joint Width: N/A
LVT1	Luxury Vinyl Tile	Floors-Field-	Mannington	Style: Amtico Collection Color: Manor Oak AROW7970, unbeveled Size: 7.25" x 48" x 2.5 mm thickness Adhesive: Manufacturer Recommended Installation: Random Stagger
LVT2	Luxury Vinyl Tile	Floors-Accent -	Mannington	Style: Active Lines Collection, Grid Color: Zing ALG201, unbeveled Size: 18" x 18" x 2.5 mm thickness Adhesive: Manufacturer Recommended Installation: Ashlar, all arrows in one direction
SC	Sealed Concrete	Floors	Sherwin Williams	Style: Armorseal Treadplex Color: Haze Gray Notes: See architectural specifications for information
SVF1	Sheet Vinyl Floor	Floors-Field	Mannington	Style: Biospec MD Color: New Mineral Gray 15365 Roll Width: 6'-6" x 0.080" thickness Adhesive: Manufacturer Recommended Notes: Seams to be heat welded with solid weld rod Timberwolf 842524 *Utilize 2 coats of Quantam Guard HP Seam Coater Pen on weld rods*
SVF2	Sheet Vinyl Floor	Floors-Slip Resistant	Mannington	Style: Assurance III Color: Trail 16352 Roll Width: 6'-6" x 0.080" thickness Adhesive: Manufacturer Recommended Notes: Seams to be heat welded with solid weld rod Heather Beige 842381 *Utilize 2 coats of Quantam Guard HP Seam Coater Pen on weld rods*

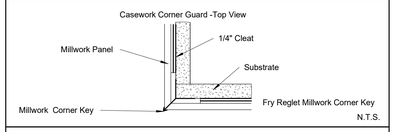
FLOORING TRANSITION STRIPS

TS1	Transition Strip	1/8" Resilient to Carpet	Schluter Systems	Vinpro-S, Aluminum Finish: Brushed Nickel Anodized Aluminum
TS2	Transition Strip	Porcelain/ Ceramic to 1/8" Resilient	Grifform	Ramping TRT#, 1/8" Beveled Corian Color: Elegant Gray See Flooring for detail note about Ramp size.
TS3	Transition Strip	LVT to SVF	Sheet Flooring	Mannington, Weld Rod to match adjacent SVF *Utilize 2 coats of Quantum Guard HP Seam Coater Pen on Weld Rods
TS4	Transition Strip	1/8" Resilient to Concrete	Schluter Systems	Vinpro- U, Aluminum Finish: Brushed Nickel Anodized Aluminum Backfill with thin set to prevent denting.
TS5	Transition Strip	New Floor to Existing Flooring	Schluter Systems	Contractor to submit ADA compliant transition from that is appropriate for new/existing flooring heights. Stainless Steel ONLY
	Existing	Subfloor Leveler Ramping Solutions	Mannington	Subfloor Leveling transition 189 Wide Reducer Notes: Utilize to create ADA compliant transition where is is needed.

CASEWORK

CODE	ITEM	LOCATION	MANUFACT.	DESCRIPTION
MC1	Millwork Corner	Misc. Casework Corners	Fry Reglet	Item: Millwork Corner Key Angle: 3/16" wing Finish: Clear Anodized Aluminum
PL1	Plastic Laminate	Vertical Surfaces/ Interior Doors	Wilsonart	Pattern: Pinnacle Walnut 7992-38 Finish: Fine Velvet
PL2	Plastic Laminate	Reveals	Wilsonart	Pattern: Satin Stainless Finish: 4830 Reveal Size: 1/4
SS1	Solid Surface	Countertops	Corian	Color: Clam Shell Thickness: 1/2" Edge Profile: Eased w/ 1.5" apron
SS2	Solid Surface	Transaction/ Countertops	Durasein	Color: Sunkissed DM5044 Thickness: 1/2" Edge Profile: Eased w/ 1.5" apron
SS3	Solid Surface			See Miscellaneous
SS4	Solid Surface	Window Stool / Integral Sinks	Corian	Color: Bisque
	Casework Interior Melamine	Casework Interior	See Architectural Specs	Color: White See Architectural Sheets for further details.

MILLWORK CORNER DETAIL - MC1



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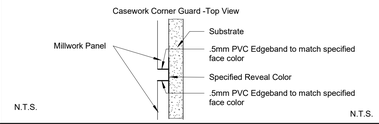
MILLWORK EDGE DETAIL



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MISCELLANEOUS

Contractor Provided/Installed Items

CODE	ITEM	LOCATION	MANUFACT.	DESCRIPTION
AP1	Acoustical Panel-Tackable	Nurse Station Casework, see elevation on AF002	Ketchum Walton Co.	Fabritrak Stretched Fabric Wall System Profile: 1", S Square NRC Rating of: 0.75 Fire Rating: Class A Notes: Utilize tackable Core, Micore Fabric Manufacturer: Carnegie Pattern:Meteor Color: 2000 Notes: See Acoustical Panel section for more information
CL1	Clocks	Exam Rooms	Peter Pepper Products	Style: 820 Face: 37 Bezel Finish: Diameter: 13-7/8" Notes: Flush Acrylic Cover, Wall Mount, Atomic, Battery Operated *Installation location and height to be coordinated with facility.
D1	Doors	New Interior Arch. Doors	See Arch. Specs	Finish: PL1
LK1	Lockers	Locker Room	Penco	Color: to be selected in submittals Notes: See architectural specifications for more information on styles/size.
MB1	Marker-Board	Exam Rooms	Claridge	Style: XCHANGE Changeable Graphics Board with White trim Size: 2' x 3' Vertical Orientation with Pencil Rail Custom Insert to be provided/coordinated with the facility. *Installation location and height to be coordinated with facility/equipment.
#	Signage	See sign plans	Bennu Enterprises	Style: To match facility standard Background Color: To match facility standard Verbiage Color: To match facility standard Accent Color: To match facility standard Notes: Allow a 5% allowance in bid
SS3	Solid Surface	Shower Inserts	Inpro/ Ferguson	Color: Bright White

WALL PROTECTION ITEMS

*SEE WALL PROTECTION CONFIGURATIONS FOR ITEMS WITH NO CODE.

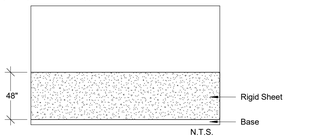
CODE	ITEM	LOCATION	MANUFACT.	DESCRIPTION
●	Corner Guard 2" Full Height	Corners-90 degree	InPro	Style: 150BN Color: See color legend below Retainer: Vinyl Height: Full Height Notes: Instal above wall base. Utilize top and bottom caps.
⌴	Corner Guard 2" Full Height	Corners-End Walls	InPro	Style: 150DBN Color: Feather 0238 Retainer: Vinyl Height: Full Height Sheet Texture: Velvet Notes: Instal above wall base. Utilize top and bottom caps.
	Hand Rail-Vinyl	See plans	InPro	Style: 1200 Height: 6-1/4" Vinyl Color: TBD
	Bumper Rail-Vinyl	See plans	InPro	Style: 1300 w/mounting cushion Height: 4-1/16" Vinyl Color: Feather 0238
	Rigid Sheet-Vinyl	See plans	InPro	Style: Rigid Vinyl Sheet Wall Protection Thickness: 0.060" Texture: Velvet Vinyl Color: See color legend below Notes: Utilize vinyl seal caulk at seams, NOT vinyl trim pieces. Factory-cut sheets, do NOT field-cut. DO NOT APPLY RIGID SHEET TO ANY EXTERIOR WALL.

WALL PROTECTION COLOR LEGEND

WALL PAINT COLOR	LOCATION	WALL PROTECTION COLOR
P1	General	Feather 0238
P2	Exam Room Accent Walls	Deco Blue 0391
P3	Exam Room Accent Walls	Serenity 0166

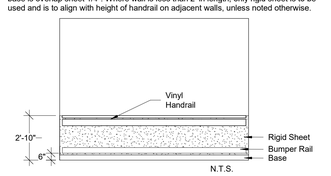
WALL PROT. CONFIGURATIONS

WP1 - Rigid Sheet is to be installed and adhered to the wall 48" length wise. Where rubber base is specified, the base is overlap sheet 1/4". Where integral base is used the sheet is to sit firmly on top of the cove capped and caulked..



N.T.S.

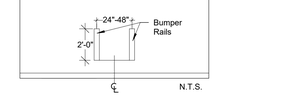
WP2- Vinyl Hand Rail is to be mounted at 34" A.F.F. to top of rail. Bumper Rail to be mounted at 6" A.F.F. from bottom of rail. Rails are to stop 2" before all door frames, fire extinguisher cabinets, wall openings and corner guards. Rigid Sheet is to be installed and adhered to the wall and align with top of handrail. Where rubber base is specified, the base is overlap sheet 1/4". Where wall is less than 2' in length, only rigid sheet is to be used and is to align with height of handrail on adjacent walls, unless noted otherwise.



N.T.S.

WP3- Bumper Rails are to be placed vertically at all locations of patient beds / stretchers. See architectural elevations for additional information.

GC is to confirm that final rail mounting widths and heights coordinate with specified bed/stretcher model.



N.T.S.

WP4- Rigid Sheet is to be installed and adhered to the wall full height. Where integral base is used, the sheet is to sit firmly on the top of the cove cap and to be caulked with color matching caulk.

N.T.S.

WP5- Vinyl Hand Rail is to be mounted at 34" A.F.F. to top of rail. Bumper Rail to be mounted at 6" A.F.F. from bottom of rail. Rails are to stop 2" before all door frames, fire extinguisher cabinets, wall openings and corner guards.

N.T.S.

WP6 - Rigid Sheet is to be installed and adhered to the wall 40" length wise. Where rubber base is specified, the base is overlap sheet 1/4". Where integral base is used the sheet is to sit firmly on top of the cove capped and caulked..

N.T.S.

WP7- Top of Rigid Sheet is to be Full Height, Utilize Full Height Corner Guards as finished edge. Reference Wall Protection items for color selections and plans for locations.

N.T.S.

Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

INNER DESIGN STUDIO
7103 Bakers Bridge Ave, Suite 106
Brentwood, TN 37027
615.321.0696
www.innerdesignstudio.com

STATE OF MISSOURI
DUDLEY C. CAMPBELL
NUMBER A-2021019545

DATE SIGNED: 07.30.25

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ED EXPANSION

HCA - LEE'S SUMMIT
MEDICAL CENTER
2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05
C	STATE - 2ND REVIEW COMMENTS	2025/07/30
E	DESIGN COORDINATION	2025/07/30

DATE:	2025.04.18
SCALE:	1/8" = 1'-0"
DRAWN:	PC
REVIEWED:	PF
JOB NUMBER:	6406.24.0003

GENERAL FINISH SPECIFICATIONS AND NOTES

AF001

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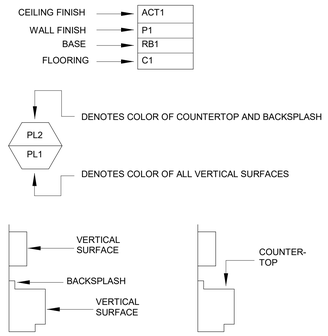
FINISH SELECTIONS AND GENERAL NOTES

LEGEND



ETR= Existing finishes are to remain
PM= Patch and Match existing finishes
NIS= Not in Scope
UON= Unless Otherwise Noted

GENERAL NOTES

1. All work shall be guaranteed against defects for one year.
2. All contractors shall visit jobsite and become familiar with existing conditions before submitting bids and/or proceeding with any work. Submission of bid indicates that the contractor has verified existing conditions.
3. The drawings attached have been developed from record drawings which may not reflect actual field conditions. In no case shall dimensions be scaled from drawings. The contractor shall verify all conditions architect/designer shall be notified of any subsequent work. Review drawings for clarification prior to proceeding with work.
4. Thoroughly clean all light lens and ceiling air diffusers after construction work is complete.
5. All parties responsible for delivering finishes to the site should check quantities and delivery dates as soon as bid is awarded to avoid any reselection of material.
6. The general contractor shall carefully study and compare the documents and finish plans and shall at once report to the architect any error, inconsistency or omission he may discover.
7. Furniture is the be owner furnished, owner installed unless otherwise noted on the furniture plan.
8. For all products installed, note industry standards and manufacturer specifications for installation.
9. All interior wall, ceiling and trim finishes meet a Class A flamespread rating of 25 or less, and shall have a smoke development of 250 or less.
10. All interior flooring meets Class I and II flamespread ratings.
11. All flooring at means of egress and wet areas shall meet minimum slip resistance requirements of relevant ANSI and ASTM test methods, in accordance with building codes, ADA guidelines, and local and state AHJs.
12. Final Clean Up: The contractor shall coordinate with the project schedule to make certain that all housekeeping cleanup items are done prior to move-in. This would include wiping down, cleaning glass, washing, waxing, vacuuming, or any other services which would be performed under the contractor's maintenance cleaning programs. Upon completion of work, all waste material, rubbish, tools, construction equipment, machinery and other surplus materials shall be removed from the site.
13. NO SUBSTITUTIONS OF SPECIFIED FINISHES WILL BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE INTERIOR DESIGNER.

A: GENERAL FINISHES

1. Refer to attached drawings for further clarification of work to be performed and/or for floorplan layout of facility.
2. Contractor is to provide "surplus stock" as noted below. Surplus stock shall be provided on each different product manufacturer, style, color and finish specified. Refer to Written Specifications Section in the Project Manual (if applicable) for additional information. Final payment shall not be made until stock is delivered.

Ceiling Tile:	Provide 1 (one) full carton for each product type used.
Interior Paint:	Provide 1 (one) gallon per type/color/finish. Each container MUST have the formula clearly indicated.
Corner Guard Covers:	Provide 2% overage per type/color, no fewer than 2 (two) units.
Handrail/Wall Guard Covers:	Provide 2% overage per type/color, no fewer than 2 (two) 8'-0" long units.
Ceramic Tile:	Provide 3% overage per type/color/finish/size.
Porcelain Tile:	Provide 3% overage per type/color/finish/size.
Rubber Base:	Provide 8 linear feet per type/color for every 500 linear feet installed, or a minimum of 8 linear feet.
Rubber Chair Rail:	Provide a minimum of 8 linear feet.
Carpet (modular):	Provide a minimum of 1 box of each used.
Luxury Vinyl Tile:	Provide 1 (one) box per type/color for every 50 boxes installed, or a minimum of 1 (one) box.
Sheet Vinyl Flooring:	Provide a minimum of 10 linear feet.

3. Submittal requirements: Contractor is to provide submittals to the Interior Designer for approval prior to fabricating or purchasing materials. All submittals are to be clearly marked with manufacturer, style color and Finish Material Legend code.
   3.1 Electronic submittals are acceptable for all product data, shop drawings and samples. **Paint draw downs and wall protection color samples require physical samples, no exceptions.** For finish samples, a photo of front of sample, as well as manufacturer label, is required.
4. Interior Architectural Door material is to be : Plastic Laminate .
   4.1 Door finish is to be: D1.
5. If casework does not have a finish call-out symbol, the selection will be made in the shop drawings.
6. The locker material is to be: Metal
   6.1 The locker finish is to be: LK1
7. The shower WALL material is to be: Prefabricated Wall Panels; see Plumbing documents.
   7.1 The shower WALL finish is to be: SS3; see AF001: Miscellaneous.
8. The shower FLOOR material is to be: Prefabricated Pan; see Plumbing documents.
   8.1 The shower FLOOR finish is to be: SS3; see AF001: Miscellaneous.
9. Wood grain laminates are to be installed so that the grain runs in a vertical direction, unless otherwise noted on architectural casework drawings.
10. The window stool material is to be: Solid Surface
    10.1 The window stool finish is to be: SS4
11. To avoid variances and dye lot issues on phased projects, the full amount of project finish materials need to be purchased at one time.
12. Finish drywall to floor in Exam 6 (Psyche 1-1415).

B: CEILING

1. When installing lay-in ceilings, lay out grid in room so that cut tiles at perimeter are no less than 9" wide.
2. Gypsum (GYP) ceilings are to be painted with the same paint type as adjacent wall. If walls are epoxy, ceilings should be epoxy as well. If walls are latex eggshell, ceilings should be as well.
   "ALL CEILINGS SHOULD BE COLOR "CEILING BRIGHT WHITE" UNLESS A SOFFIT ACCENT COLOR IS INDICATED"
3. Edges of cut ceiling tiles are to be painted with ceiling manufacturer's matching touch up paint.
4. For renovation work where not all ceiling tiles are being replaced: Replace all damaged ceiling tiles as necessary. Utilize existing ceiling tiles from one enclosed room for replacement tiles. Provide all new in above-mentioned enclosed room. This ensures ceiling tiles look uniform, avoiding a mismatched look when damaged tiles are sporadically replaced with new.

C: PAINT

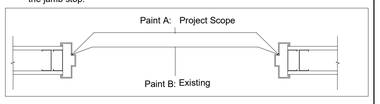
1. Prior to the application of paint, the contractor is to repair new or existing surfaces by patching, smoothing and sanding as needed to achieve a surface acceptable for the application of new finish. Prepare door frames or metal surfaces by sanding by chips/burrs, filling dents and caulking cracks at corners as required.
2. Miscellaneous metal (return and air supply grilles, expansion joints, etc) located on wall surface is to be painted to match the adjacent wall color.
3. The contractor is to submit one paint sample of each paint color in the appropriate finish to the Interior designer for approval prior to purchasing paint. Samples are to be painted on 8.5"x11" card stock. Each sample should have the Finish Material Legend code and color formula clearly indicated, as well as the store location where the paint is to be purchased.
4. When specified in the Finish Plan, provide paint finishes as noted for the surfaces listed below. Refer to written Architectural Paint Specifications section for further information regarding products, primers, etc. If surfaces exist on the job that are not listed, contact the Interior Designer.
5. Caulk all plumbing fixtures, millwork and trim to adjacent surfaces. Color of caulk to match adjacent finish.
6. Typical Paint Finishes and Locations: These are "typicals" only. For all locations, refer to finish plans.

GYPSUM BOARD WALLS AND SOFFITS	
Low Gloss Waterbased Epoxy	Janitors Closets, Toilets, Soiled Areas, Sterile Areas, ISO Rms. A.I.I., Staff Lounge
Latex Eggshell	All Other Areas

GYPSUM BOARD CEILINGS	
Low Gloss Waterbased Epoxy	Showers, Soiled Areas, Decontam. A.I.I., Toilets.
Latex Eggshell	All Other Areas

INTERIOR METAL SURFACES	
Semigloss Alkyd Enamel	Door Frames, Metal Doors, View Window Sills/Frames, Shelving, Previously painted Wood Trim, Previously painted Metal.

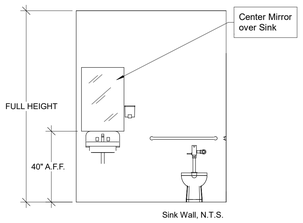
7. All prefinished store front windows or factory prefinished frames should not be painted unless otherwise directed architect or Interior Designer.
8. Paint all horizontal surfaces on soffits over upper casework to match the vertical wall unless otherwise noted. Soffits indicated to receive accent paint are to be painted on all three sides. THE BOTTOM OF THE SOFFIT IS TO BE PAINTED THE SAME ACCENT COLOR AS THE SOFFIT SIDES, NOT CEILING WHITE.
9. In the case where a door frame receives a paint color on one side and another paint color on the opposite side of the door, the transition shall occur on the inside corner of the jamb stop.



10. If rubber base is not used, finish drywall to the floor where sealed concrete is the flooring. Contractor is to install a bead of caulk at drywall/concrete transition.
11. All Storage/Supply rooms are to receive a 1" painted horizontal red line 18" from bottom of the sprinkler head around the room, paint color: P8
12. In IT, COMM or DATA rooms, do not paint the fire retardant plywood or cover/obstruct the fire rating label in any way.

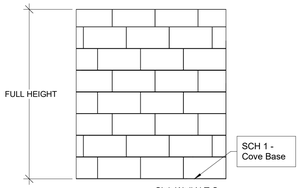
D: TILE

1. See Finish Material Legend for grout formulas and colors.
2. All transitions between wall tile and paint are to be made with SCH2 along with a bead of wall color matching caulk.
3. If shower material is tile, wall tile is to extend up to ceiling line. Where shower wall tile meets toilet walls, utilize metal trim as a finishing edge.
4. If floor tile is larger than 2"x2," cut tile to slope to drain.
5. Mirror is to be installed so the bottom of the reflective surface is at 40" AFF.

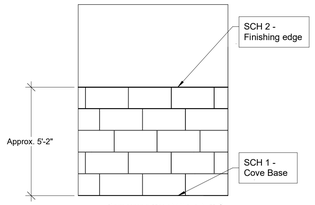


Sink Wall, N.T.S.

6. Walls in Toilets are to receive the following tile pattern(s): Install so that tile runs fully behind grab bars and dispensers.



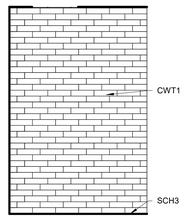
Sink Wall N.T.S.



Remaining Toilet Walls N.T.S.

Wall Tile Key:
PWT1

6. CWT1 is to be installed in a horizontal 1/3rd offset pattern as shown in elevation below.



1 Water fountain Elevation
3/8" = 1'-0"

7. Decontamination room is to receive the PWT1 in a 1/3rd offset pattern, from top of integral base to ceiling.

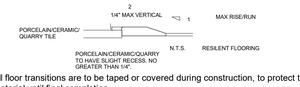
E: WALL PROTECTION

1. Prior to the application of paint, the contractor is to repair new or existing surfaces by patching, smoothing and sanding as needed to achieve a surface acceptable for the application of new finish.
2. Utilize caulk at all corner guards and areas where sheet protection meets door frames. Color of caulk to match wall protection.
3. Do NOT mount wall protection over expansion joints.
4. Handrails shall have a minimum light reflectance value of 30 percentage points in contrast to the wall light reflectance value.
5. All wall protection within sterile areas are to be caulked at all seams and transitions. Color of caulk to match wall protection.

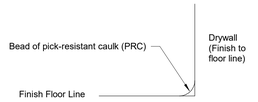
F: FLOORING

1. All traditional rubber base is to be 4" H, coved, and continuous rolls. Miter inside corners, wrap outside corners of jobsite. Do NOT use premolded corners.
2. All sculptured rubber base is to be 4.25" H, straight sections. Miter inside and outside corners. Do NOT use premolded corners.
3. All reducer strips and other thresholds are to be located at the centerline of door when in a closed position, unless otherwise noted.
4. Utilize clear caulk to seal where flooring transition meets flooring, to eliminate gaps.
5. Transition strips are indicated by a bold line on the floor pattern plans. It is the contractor's responsibility to identify locations and quanities of the material-to-material transition strips. If a strip is needed that is not listed in Floor Transisiton, contractor is to submit proposed product via submittal for approval. All transition are required to meet ADA guidelines.

   Flooring Transition = TS#
6. ADA compliant porcelain/ceramic/quarry to resilient floor details:

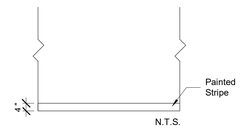


7. All floor transitions are to be taped or covered during construction, to protect the material until final completion.
8. Where new flooring or base is specified, the same flooring or base should extend into any closets, storage areas, etc. adjacent to that space unless otherwise noted.
9. For renovations, existing flooring is to be removed by the contractor prior to applying the specified flooring product.
10. Floor pattern shall extend under any open space under casework or kneespace, even when it appears to stop on plan.
11. Where specified sheet vinyl flooring is to be heatwelded at seams using manufacturer's sealer. Flash cove material up wall to form self-coved base. Continuous Resilient cove support to be Mannington #070. Aluminum trim to be provided by Powerhold, mill finished anodized 409105 PH 901 MFA.
12. Apply Mannington's "Seam Coater Pen" to ALL welded seams of sheet vinyl flooring immediately after installation.
13. Where sheet vinyl flooring is used, a proposed seaming diagram MUST be submitted and approved by the Interior Designer.
14. Minimize the amount of seams. Avoid seams extending into a doorway.
15. Manufacturer's recommended adhesive is to be based on application and concrete moisture %.
16. In the following locations, utilize manufacturer recommended traditional epoxy adhesive.
    - Under Trauma and Bariatric Exam tables.
17. Exam 6 (Psych 1-1415): Transition between wall and flooring is to be made with a bead of pick-resistant caulk (PRC) that is matches adjacent finish.



N.T.S.

18. Exam 6 (Psych 1-1415): Paint a 4" Base starting at floor level, in paint color EP4 around the perimeter of the room in lieu of integral/rubber base.

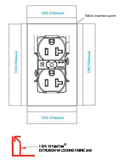


N.T.S.

19. For HCA projects, all flooring should be purchased and tracked through Logistic Solutions and Mannington. See material contacts section for contact people.

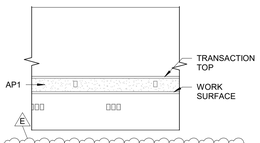
G: ACOUSTICAL PANELS

1. Acoustical Panels are to be furnished and installed by the general contractor. All dimensions must be field-verified before production. Panels are to align with countertops below. Outlets are to be located below the countertop, with grommets. In locations with outlet in panel locations refer to diagram below.



For panel specification and fabric selection and fabric selection(s), see MISCELLANEOUS sections. For locations, see finish plans.

2. Nurse Work, Nurse station Casework - Panels to be applied between upper transaction top and work surface. Line up edges evenly. See diagram above for installation around electrical outlets.



4 NURSE WORK/NURSE STATION CASEWORK
1/4" = 1'-0"

H: ALTERNATES

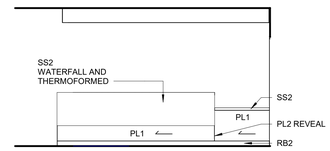
Contractor is to price the following alternates in addition to the base bid. See interior plans for locations with * for information.

1. Add Alternate 1: Replacing Acoustical Ceiling grid and Tile with ACT1.
   Add Alternate 1A: Clean Existing Ceiling grid and replace with new ACT1 ceiling tile.
2. Add Alternate 2: New Paint on all walls, trim, and GYP ceilings.
3. Add Alternate 3: New Flooring and base.

I: CASEWORK DESIGNS

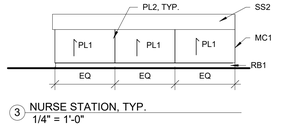
Typical Casework Designs are to be as shown in elevations below. All Graining to run in the same direction, unless otherwise noted. All 1/4" reveals are to be plastic laminate PL2.

1. Typical Reception Desk:



2 RECEPTION DESK
1/4" = 1'-0"

2. Typical Nurse Station, Typical:



3 NURSE STATION, TYP.
1/4" = 1'-0"

Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

INNER DESIGN STUDIO
7103 Bakers Bridge Ave, Suite 105
Brentwood, TN 37027
615.321.0696
www.innerdesignstudio.com

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MISSOURI DHSS

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:

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B	DESIGN COORDINATION	2025/06/05
E	DESIGN COORDINATION	2025/07/30

DATE:	2025.04.18
SCALE:	As indicated
DRAWN:	PC
REVIEWED:	PF
JOB NUMBER:	6406.24.0003

GENERAL FINISH SPECIFICATIONS AND NOTES

AF002

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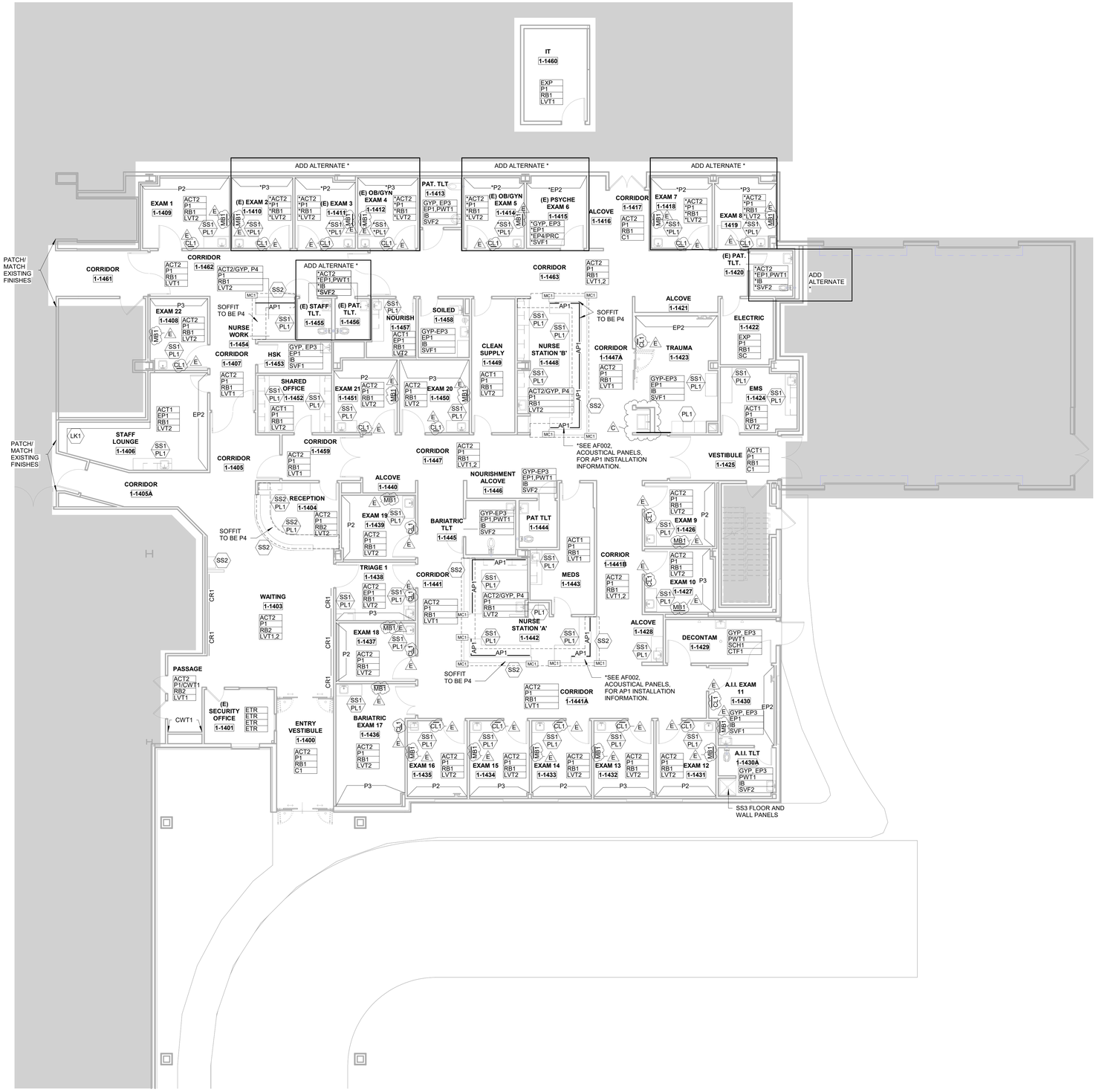
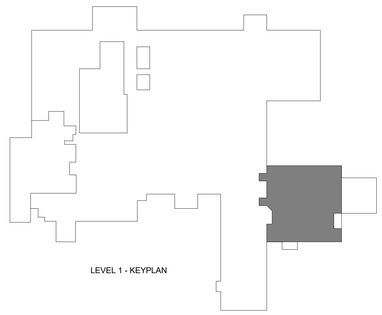


1 Level 1 - FINISH PLAN
1/8" = 1'-0"



Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

INNER DESIGN STUDIO
7103 Bakers Bridge Ave, Suite 105
Brentwood, TN 37027
615.321.0696
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C	STATE - 2ND REVIEW COMMENTS	2025/07/30
E	DESIGN COORDINATION	2025/07/30

DATE:	2025.04.18
SCALE:	1/8" = 1'-0"
DRAWN:	PC
REVIEWED:	PF
JOB NUMBER:	6406.24.0003

FINISH FLOOR PLAN - LEVEL 1

AF101

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1 Level 1 - WALL PROTECTION PLAN
1/8" = 1'-0"

WALL PROTECTION GENERAL NOTES

1. SEE AF001/AF002 FOR MORE WALL PROTECTION DETAILS AND CONFIGURATIONS.
2. *EXTERIOR WALLS SHOULD BE FURRED IN ORDER TO RECEIVE RIGID SHEET VINYL.

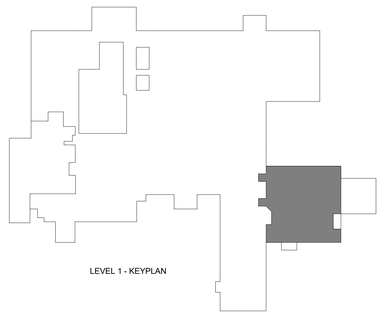
WALL PROTECTION ITEMS

*SEE WALL PROTECTION CONFIGURATIONS FOR ITEMS WITH NO CODE.

CODE	ITEM	LOCATION	MANUFACT.	DESCRIPTION
●	Corner Guard 2" Full Height	Corners-90 degree	InPro	Style: 150BN Color: See color legend below Retainer: Vinyl Height: Full Height Notes: Install above wall base. Utilize top and bottom caps.
⌊	Corner Guard 2" Full Height	Corners-End Walls	InPro	Style: 150DBN Color: Feather 0238 Retainer: Vinyl Height: Full Height Sheet Texture: Velvet Notes: Install above wall base. Utilize top and bottom caps.
	Hand Rail-Vinyl	See plans	InPro	Style: 1200 Height: 6-1/4" Vinyl Color: TBD
	Bumper Rail-Vinyl	See plans	InPro	Style: 1300 w/mounting cushion Height: 4-1/16" Vinyl Color: Feather 0238
	Rigid Sheet-Vinyl	See plans	InPro	Style: Rigid Vinyl Sheet Wall Protection Thickness: 0.060" Texture: Velvet Vinyl Color: See color legend below Notes: Utilize vinyl seal caulk at seams, NOT vinyl trim pieces. Factory-cut sheets, do NOT field-cut. DO NOT APPLY RIGID SHEET TO ANY EXTERIOR WALL.

WALL PROTECTION COLOR LEGEND

WALL PAINT COLOR	LOCATION	WALL PROTECTION COLOR
P1	General	Feather 0238
P2	Exam Room Accent Walls	Deco Blue 0391
P3	Exam Room Accent Walls	Serenity 0166


LEVEL 1 - KEYPLAN

Devenney GROUP
Devenney Group Ltd., Architects
6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251
T: 602.943.8950
www.devenneygroup.com

Consultant:
INNER DESIGN STUDIO
7103 Bakers Bridge Ave, Suite 105
Brentwood, TN 37027
615.321.0696
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WALL PROTECTION PLAN - LEVEL 1

AF102

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1 Level 1 - FLOOR PATTERN PLAN
1/8" = 1'-0"

FLOORING

CODE/ KEY	ITEM	LOCATION	MANUFACT.	DESCRIPTION
C1	Carpet	Walk off Carpet	Shaw	Style: Welcome II Tile 5T031 Color: Sterling 31557 Format: Plank Size: 24"x 24"x 0.362 in. thickness Backing: Polypropylene/Ecoworx Adhesive: Manufacturer Recommended Installation: Quarter Turn
CTF1	Ceramic Tile Floor	Floors-Decontam	Daltile	Style: Keystones Mosaics Color: Urban Putty 0161 Size: 2"x2" x 1/4" thickness Grout: Laticrete, Spectralock 2000IG (E) Grout Color: Walnut 94 Joint Width: N/A
LVT1	Luxury Vinyl Tile	Floors-Field-	Mannington	Style: Amtico Collection Color: Manor Oak AROW7970, unbeveled Size: 7.25" x 48" x 2.5 mm thickness Adhesive: Manufacturer Recommended Installation: Random Stagger
LVT2	Luxury Vinyl Tile	Floors-Accent -	Mannington	Style: Active Lines Collection, Grid Color: Zing ALG201, unbeveled Size: 18" x 18" x 2.5 mm thickness Adhesive: Manufacturer Recommended Installation: Ashlar, all arrows in one direction
SC	Sealed Concrete	Floors	Sherwin Williams	Style: Armorseal Treadplex Color: Haze Gray Notes: See architectural specifications for information
SVF1	Sheet Vinyl Floor	Floors-Field	Mannington	Style: Biospec MD Color: New Mineral Gray 15365 Roll Width: 6'-6" x 0.080" thickness Adhesive: Manufacturer Recommended Notes: Seams to be heat welded with solid weld rod Timberwolf 842524 *Utilize 2 coats of Quantam Guard HP Seam Coater Pen on weld rods*
SVF2	Sheet Vinyl Floor	Floors-Slip Resistant	Mannington	Style: Assurance III Color: Trail 16352 Roll Width: 6'-6" x 0.080" thickness Adhesive: Manufacturer Recommended Notes: Seams to be heat welded with solid weld rod Heather Beige 842381 *Utilize 2 coats of Quantam Guard HP Seam Coater Pen on weld rods*

FLOORING TRANSITION STRIPS

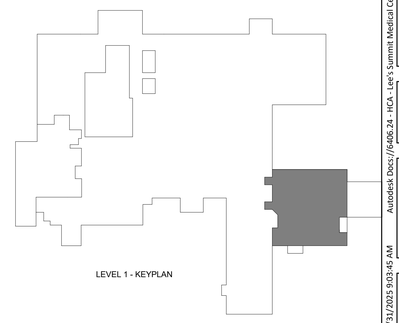
TS1	Transition Strip	1/8" Resilient to Carpet	Schluter Systems	Vinpro-S, Aluminum Finish: Brushed Nickel Anodized Aluminum
TS2	Transition Strip	Porcelain/ Ceramic to 1/8" Resilient	Grifform	Ramping TRT#, 1/8" Beveled Corian Color: Elegant Gray See Flooring for detail note about Ramp size.
TS3	Transition Strip	LVT to SVF	Sheet Flooring	Mannington, Weld Rod to match adjacent SVF *Utilize 2 coats of Quantum Guard HP Seam Coater Pen on Weld Rods
TS4	Transition Strip	1/8" Resilient to Concrete	Schluter Systems	Vinpro- U, Aluminum Finish: Brushed Nickel Anodized Aluminum Backfill with thin set to prevent denting.
TS5	Transition Strip	New Floor to Existing Flooring	Schluter Systems	Contractor to submit ADA compliant transition from that is appropriate for new/existing flooring heights. Stainless Steel ONLY
	Existing	Subfloor Leveler Ramping Solutions	Mannington	Subfloor Leveling transition 189 Wide Reducer Notes: Utilize to create ADA compliant transition where is is needed.

FLOORING LEGEND

TS — FLOORING TRANSITION TYPE

PLANK OR TILE DIRECTION

PATTERN DIRECTION CHANGE



Devenney GROUP
Devenney Group Ltd., Architects
6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251
T: 602.943.8950
www.devenneygroup.com

Consultant:
INNER DESIGN STUDIO
7103 Bakers Bridge Ave. Suite 106
Brentwood, TN 37027
615.321.0696
www.innerdesignstudio.com

STATE OF MISSOURI
DUDLEY C. CAMPBELL
NUMBER A-2011019645
DATE SIGNED: 07.30.25

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ED EXPANSION

HCA - LEE'S SUMMIT
MEDICAL CENTER
2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05
C	STATE - 2ND REVIEW COMMENTS	2025/07/30
E	DESIGN COORDINATION	2025/07/30

DATE:	2025.04.18
SCALE:	1/8" = 1'-0"
DRAWN:	PC
REVIEWED:	PF
JOB NUMBER:	6406.24.0003

FLOOR PATTERN PLAN - LEVEL 1

AF103

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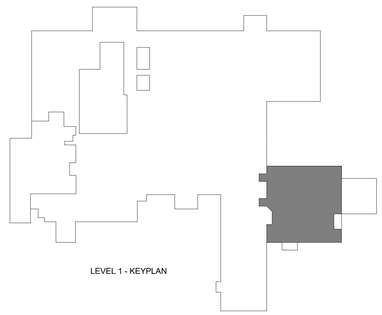
1 Level 1 - SIGNAGE PLAN
1/8" = 1'-0"

SIGN TYPE LEGEND	
V	Sign Type : Vinyl Signs
PH5	Sign Type : Poster Holder- desktop
MPH	Sign Type : Multi Poster Holder
P	Sign Type : Room Sign
P3	Sign Type : Room Sign with Name Inserts
S	Sign Type : Room Sign with symbol
I	Sign Type : Informational Sign
BW	Sign Type : Blade Wall Sign (Eye Wash) with symbol
BR	Sign Type: Blade Wall Sign (Restroom) with symbol
O	Sign Type: Over head
M	Sign Type: Metal routed (Logo)
BF	Sign Type : Blade Ceilings (Fire Extinguisher signs)
FE	Sign Type : Fire Evacuation Plan Signs

LOCATION	QTY	FLOOR	INT-EXT	TYPE	MESSAGE	SYMBOL	NOTES
EMERGENCY DEPARTMENT							
1	1	1	EXT	V	VESTIBULE		FACILITY TO CONFIRM VERBIAGE
2	1	1	INT	V	VESTIBULE		FACILITY TO CONFIRM VERBIAGE
3	1	1	INT	P	EMS LOUNGE		FACILITY TO CONFIRM VERBIAGE
4	1	1	INT	S	STAIR #		FACILITY TO CONFIRM VERBIAGE
5	1	1	INT	O	TBD		DIRECTIONAL; FACILITY TO CONFIRM VERBIAGE
6	1	1	INT	P	TRAUMA		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
7	1	1	INT	S	ELECTRIC	CAUTION	FACILITY TO CONFIRM VERBIAGE
8	1	1	INT	S	PATIENT RESTROOM	FEMALE/MALE/ HANDICAP	
9	1	1	INT	P	EXAM 8		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
10	1	1	INT	P	EXAM 7		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
11	1	1	INT	O	TBD		DIRECTIONAL; FACILITY TO CONFIRM VERBIAGE
12	1	1	INT	P	AUTHORIZED PERSONNEL ONLY		FACILITY TO CONFIRM VERBIAGE
13	1	1	INT	O	TBD		DIRECTIONAL; FACILITY TO CONFIRM VERBIAGE
14	1	1	INT	P	EXAM 6		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
15	1	1	INT	P	CLEAN SUPPLY		
16	1	1	INT	S	SOILED	BIOHAZARD SYMBOL	
17	1	1	INT	BW	EYE WASH	EYE WASH	INSTALL AT DOOR GOING INTO THE ROOM ABOVE 7'-0"
18	1	1	INT	S	EYE WASH	EYE WASH	INSTALL AT EYE WASH STATION
19	1	1	INT	P	NOURISHMENT		
20	1	1	INT	S	PATIENT RESTROOM	FEMALE/MALE/ HANDICAP	
20.1	1	1	INT	BR	RESTROOM	FEMALE/MALE/ HANDICAP	INSTALL ABOVE 7'-0"
21	1	1	INT	S	STAFF RESTROOM	FEMALE/MALE/ HANDICAP	
22	1	1	INT	P	EXAM 5		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
23	1	1	INT	S	PATIENT RESTROOM	FEMALE/MALE/ HANDICAP	
23.1	1	1	INT	BR	RESTROOM	FEMALE/MALE/ HANDICAP	INSTALL ABOVE 7'-0"
24	1	1	INT	P	EXAM 4		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
25	1	1	INT	P	EXAM 3		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
26	1	1	INT	P	EXAM 2		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
27	1	1	INT	O	TBD		DIRECTIONAL; FACILITY TO CONFIRM VERBIAGE
28	1	1	INT	P	EXAM 1		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
29	2	1	INT	P	EXAM 22		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
30	1	1	INT	O	TBD		DIRECTIONAL; FACILITY TO CONFIRM VERBIAGE
30.1	1	1	INT	O	TBD		DIRECTIONAL; FACILITY TO CONFIRM VERBIAGE
31	1	1	INT	S	HOUSEKEEPING	BIOHAZARD SYMBOL	
32	1	1	INT	P	STAFF LOUNGE		
33	1	1	INT	O	TBD		DIRECTIONAL; FACILITY TO CONFIRM VERBIAGE
34	1	1	INT	O	TBD		DIRECTIONAL; FACILITY TO CONFIRM VERBIAGE
35	1	1	INT	P	AUTHORIZED PERSONNEL ONLY		NAME SLOT
36	1	1	INT	P	TO WAITING ROOM		NAME SLOT
37	1	1	INT	P 3	SHARED OFFICE		NAME SLOT
38	1	1	INT	P	RECEPTION		
39	1	1	INT	P	EXAM 21		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
40	1	1	INT	P	EXAM 20		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
41	1	1	INT	O	TBD		DIRECTIONAL; FACILITY TO CONFIRM VERBIAGE
42	1	1	INT	P	CLEAN SUPPLY		
43	1	1	INT	S	PATIENT RESTROOM	FEMALE/MALE/ HANDICAP	
43.1	1	1	INT	BR	RESTROOM	FEMALE/MALE/ HANDICAP	INSTALL ABOVE 7'-0"
44	2	1	INT	P	AUTHORIZED PERSONNEL ONLY (MEDS)		FACILITY TO CONFIRM VERBIAGE
45	1	1	INT	P	EXAM 9		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
46	1	1	INT	P	EXAM 10		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
47	1	1	INT	S	DECONTAMINATION	BIOHAZARD	
48	1	1	INT	S	EXAM 11 (AII)	BIOHAZARD	FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
49	1	1	INT	P	EXIT		
50	1	1	EXT	S	AUTHORIZED PERSONNEL ONLY	BIOHAZARD	FACILITY TO CONFIRM NUMBERING AND VERBIAGE
51	1	1	INT	S	DECONTAMINATION	BIOHAZARD	
52	1	1	INT	S	RESTROOM (AII)	BIOHAZARD/ FEMALE/MALE/ HANDICAP	
53	1	1	INT	P	EXAM 11 (AII)	BIOHAZARD	FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
54	1	1	INT	O	TBD		DIRECTIONAL; FACILITY TO CONFIRM VERBIAGE
55	1	1	INT	P	EXAM 12		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
56	1	1	INT	P	EXAM 13		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
57	1	1	INT	P	EXAM 14		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
58	1	1	INT	P	EXAM 15		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
59	1	1	INT	P	EXAM 16		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
60	1	1	INT	O	TBD		DIRECTIONAL; FACILITY TO CONFIRM VERBIAGE
61	1	1	INT	P	EXAM 17 (BARIATRIC)		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
62	1	1	INT	P	EXAM 18		FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
63	2	1	INT	P	AUTHORIZED PERSONNEL ONLY (MEDS)		FACILITY TO CONFIRM VERBIAGE
64	1	1	INT	P	TRIAGE 1		FACILITY TO CONFIRM VERBIAGE
65	1	1	INT	P	EXAM 19		FACILITY TO CONFIRM NUMBERING AND VERBIAGE
66	1	1	INT	S	PATIENT RESTROOM (BARIATRIC)	FEMALE/MALE/ HANDICAP	
66.1	1	1	INT	BR	RESTROOM	FEMALE/MALE/ HANDICAP	INSTALL ABOVE 7'-0"
67	1	1	INT	P	TO WAITING ROOM		FACILITY TO CONFIRM NUMBERING AND VERBIAGE
68	1	1	INT	P	TRIAGE 1		FACILITY TO CONFIRM VERBIAGE
69	1	1	INT	O	SIGN IN		FACILITY TO CONFIRM VERBIAGE
70	1	1	INT	MPH	INFORMATIONAL REQUIRED SIGNAGE		
70.1	1	1	INT	PH5	POSTER HOLDER - FREESTANDING		
71	1	1	INT	P	EXIT		FACILITY TO CONFIRM VERBIAGE
72	1	1	INT	P	EMERGENCY DEPARTMENT		FACILITY TO CONFIRM VERBIAGE
73	1	1	INT	P	EXIT		FACILITY TO CONFIRM VERBIAGE
73.1	1	1	INT	P	EMERGENCY DEPARTMENT		FACILITY TO CONFIRM VERBIAGE
73.2	1	1	INT	P	EXIT		FACILITY TO CONFIRM VERBIAGE
73.3	1	1	INT	P	EMERGENCY DEPARTMENT		FACILITY TO CONFIRM VERBIAGE
74	1	1	INT	P	SECURITY - AUTHORIZED PERSONNEL ONLY		FACILITY TO CONFIRM VERBIAGE
75	1	1	INT	V	VESTIBULE SIGNAGE		FACILITY TO CONFIRM VERBIAGE
76	1	1	EXT	V	VESTIBULE SIGNAGE		FACILITY TO CONFIRM VERBIAGE
77	1	1	INT	M	HCA BRANDING LOGO SIGNAGE		
78	1	1	INT	P	AUTHORIZED PERSONNEL ONLY (IT)		
	23	1	INT	I	EMT-ALA		ENGLISH/SPANISH REQUIRED
	2	1	INT	BF	FIRE EXTINGUISHER		BLADE
	5	1	INT		FIRE EVACUATION MAPS		LOCATE AS REQUIRED BY FIRE MARSHAL



Devenney GROUP
Devenney Group Ltd., Architects
6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251
T: 602.943.8950
www.devenneygroup.com

Consultant:
INNER DESIGN STUDIO
7103 Bakers Bridge
Ave, Suite 106
Brentwood, TN 37027
615.321.0696
www.innerdesignstudio.com

STATE OF MISSOURI
DUDLEY C. CAMPBELL
NUMBER A-2021004549
DATE SIGNED: 07.30.25

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ED EXPANSION

HCA - LEE'S SUMMIT
MEDICAL CENTER
2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:

REVISIONS		
REV #	DESCRIPTION	DATE
C	STATE - 2ND REVIEW COMMENTS	2025/07/30

DATE:	2025.04.18
SCALE:	1/8" = 1'-0"
DRAWN:	PC
REVIEWED:	PF
JOB NUMBER:	6406.24.0003

SIGNAGE PLAN - LEVEL 1

AF105

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GENERAL NOTES

A. REFER TO P00-00 FOR GENERAL PLUMBING NOTES AND SYMBOLS.
B. ORANGE DASHED PIPING REPRESENTS PIPING TO BE DEMOLISHED

LEGEND NOTES

1. DECONTAMINATION TANK ALARM PANEL.
2. FIRE VALVE CABINET.
3. EXISTING PLUMBING FIXTURE TO REMAIN.
4. RELOCATED BOILER CONTROL PANEL.
5. INSTALL DRIP PAN BENEATH EXISTING PIPING LOCATED OVER NEW ELECTRICAL ROOM. INSTALL SENSOR IN DRIP PAN TO DETECT MOISTURE AND ALARM TO BUILDING MANAGEMENT SYSTEM.
6. CONNECT NEW 1-1/4" HW PIPING TO EXISTING 1-1/4" HW PIPING SERVING EXISTING DECONTAM SHOWER.
7. ROUTE 4"SD DOWN BELOW GRADE AND CONNECT TO CIVIL UTILITY PIPING. REFER TO CIVIL PLANS FOR CONTINUATION.
8. ROUTE 3"SD DOWN BELOW GRADE AND CONNECT TO CIVIL UTILITY PIPING. REFER TO CIVIL PLANS FOR CONTINUATION.

1 FLOOR PLAN - LEVEL 01 - PLUMBING
1/8" = 1'-0"

LEVEL 1 - KEYPLAN

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

WSP
300 WYANDOTTE, SUITE 200
KANSAS CITY, MO 64105

JONATHAN DECKERT NUMBER PE-2021039309 — STATE OF MISSOURI — PROFESSIONAL ENGINEER
08/06/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05
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DATE:	2025/04/18
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DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

FLOOR PLAN - LEVEL 01 - PLUMBING

P02-01

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

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PLUMBING FIXTURE

HCA DESIG.	FIXTURE TYPE	SAN.SEWER	VENT	COLD WATER	HOT WATER	DESCRIPTION
P-104	WATER CLOSET ADA COMPLIANT PATIENT	4"	2"	1"	-	WATER CLOSET: ZURN MODEL No. Z5666-BWL-BA-AM (WHITE) FLUSH VALVE WATER CLOSET, VITREOUS CHINA, 16-3/4" RIM HEIGHT, 10" ROUGHING-IN, 1.6 GALLONS PER FLUSH, ELONGATED BOWL WITH BED PAN LUGS, DIRECT FED SIPHON JET ACTION, FULLY GLAZED TRAPWAY, 1½" TOP SPUD. FLUSH VALVE: ZURN MODEL No. Z-6011AV-AV-BWN-WS1 BEDPAN 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 WITH OFFSET FLUSH TUBE, WALL BRACKET AND SUPPORT ROD, HIGH BACK PRESSURE VACUUM BREAKER, ONE-PIECE BOTTOM HEX COUPLING NUT, ADJUSTABLE TAILPIECE 1" I.P.S. SCREWDRIVER BACK-CHECK ANGLE STOP, OFFSET FOR ADA APPLICATIONS, SPUD COUPLING AND FLANGE FOR 1½" TOP SPUD. SEAT: PROFLO MODEL No. PFTSCOF2000WH, WHITE OPEN SEAT FRONT LESS COVER, WITH SELF SUSTAINING CHECK HINGE.
P-304	LAVATORY - WALL HUNG ADA COMPLIANT PATIENT	2"	2"	1/2"	1/2"	LAVATORY: ZURN MODEL No. Z5344 WHITE 20X18 4CC WALL MOUNT WALL HUNG LAVATORY, VITREOUS CHINA. PATIENT. FAUCET: ZURN MODEL No. Z812A4-XL-FC1.5 SWING GOOSENECK SPOUT, WITH 1.5 GPM FLOW CONTROL IN BASE OF SPOUT, WITH 4" WRISTBLADE HANDLES. STRAINER AND TAILPIECE: PROFLO MODEL No. PFGD101 1-1/4" X 6" CP OFFSET GRID DRAIN AND TAILPIECE. P-TRAP: PROFLO MODEL No. PFPTB400 1-1/4" CHROME PLATED CAST BRASS BODY P-TRAP, TUBULAR BRASS WALL BEND. No. PF203WH TRAP WRAP KIT. STOPS AND RISERS: TWO PFXQAC32C LEAD FREE 1/4 TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 1/2" CP ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS. CARRIER: ZURN MODEL Z1231 FLOOR MOUNTED CARRIER.
P-309	LAVATORY - WALL HUNG LIGATURE RESISTANT ADA COMPLIANT	2"	2"	1/2"	1/2"	LAVATORY: BRADLEY MODEL No. HSL-1-BIR-3-TMA-TC-AL-BRKT-S-CHROME-SAND SOLID SURFACE SINGLE STATION LAVATORY FAUCET: INTEGRAL BATTERY POWERED INFRARED SPRAYHEAD, WITH 0.5 GPM FLOW MIXING VALVE: THERMOSTATIC MIXING VALVE STRAINER AND TAILPIECE: INTEGRAL STRAINER AND TAILPIECE. P-TRAP: CHROME PLATED CAST BRASS BODY P-TRAP, WITH STAINLESS STEEL TRAP COVER STOPS AND RISERS: TWO PFXQAC32C LEAD FREE 1/4 TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 1/2" CP ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS.
P-402	SINK SINGLE COMPARTMENT ADA COMPLIANT	2"	2"	1/2"	1/2"	SINK: ELKAY MODEL LRAD1919-55-3 TYPE 304 NICKEL BEARING STAINLESS STEEL, SELF RIMMING. 19-1/2" X 19" X 5-1/2" DEPTH ADA COMPLIANT WITH OFF-CENTERED OUTLET TO THE REAR. BOWL SIZE 16"x 13-1/2". 3-1/2" DRAIN AND "SOUND GUARD" UNDERCOATING. FAUCET: ZURN MODEL No. Z831B4-XL-FC 1.5, 8" FIXED CENTERS RIGID OR SWING GOOSENECK SPOUT, WITH 1.5 GPM FLOW CONTROL IN BASE OF SPOUT AND WITH 4" WRISTBLADE HANDLES. STRAINER/TAILPIECE: PROFLO MODEL No. PFWTS CHROME PLATED BRASS 4-1/2" WIDE STRAINER WITH PROFLO PFTP9100 17 GA FLANGED TAILPIECE. P-TRAP: PROFLO MODEL No. PFPTB403 1-1/2 17 GA CHROME PLATED CAST BRASS BODY P-TRAP, TUBULAR BRASS WALL BEND. STOPS AND RISERS: TWO PFXQAC32C LEAD FREE 1/4 TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 1/2" CP ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS.
P-404	SINK SINGLE COMPARTMENT ADA COMPLIANT	2"	2"	1/2"	1/2"	SINK: ELKAY MODEL LRAD-1919-55-3 TYPE 304 NICKEL BEARING STAINLESS STEEL, SELF RIMMING. 19-1/2" X 19" X 5-1/2" DEPTH ADA COMPLIANT WITH OFF-CENTERED OUTLET TO THE REAR. BOWL SIZE 16"x 13-1/2". 3-1/2" DRAIN AND "SOUND GUARD" UNDERCOATING. FAUCET: ZURN MODEL No. Z7870C-XL-C, 8" FIXED CENTERS SINGLE HANDLE KITCHEN FAUCET, WITH 2.2 GPM FLOW RATE. STRAINER/TAILPIECE: PROFLO MODEL No. PF151ACP BASKET DRAIN WITH 1-1/2" 20 GAUGE TAILPIECE. P-TRAP: PROFLO MODEL No. PFPTB403 1-1/2 17 GA CHROME PLATED CAST BRASS BODY P-TRAP, TUBULAR BRASS WALL BEND. STOPS AND RISERS: TWO PFXQAC32C LEAD FREE 1/4 TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 1/2" CP ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS.
P-501	CLINICAL SERVICE SINK	4"	2"	1-1/2"	3/4"	CLINICAL SERVICE SINK: ZURN MODEL Z5410 WALL MOUNTED, VITREOUS CHINA CLINIC SERVICE SINK. VITREOUS CHINA, INTEGRAL FLUSHING RIM. FLUSHING ACTION AND 1-1/2 " TOP SPUD. STAINLESS STEEL RIM GUARD. FLUSH VALVE & FAUCET: ZURN MODEL Z6011T-AV-HI FLUSH VALVE (FRONT ACCESS); ZURN MODEL Z843D4-2XT-LVB-PE-FT-XJ FAUCET WINTEGRAL VAC BRKR, CHECK STOPS AND SERVICE STOPS. BEDPAN WASHER: ZURN MODEL Z85500WM-XL-EVB-HK-SE-SH2-VC WALL MOUNTED BEDPAN WASHER COMBINATION WITH FOOT PEDAL MIXING VALVE, LOOSE-KEY STOPS, ELEVATED VACUUM BREAKER, 69" WHITE VINYL REINFORCED HOSE WITH CHROME PLATED BRASS WALL FLANGE, SUPPLY ELL, SPRAY HANDLE AND WALL HOOK CARRIER: ZURN Z-1217-B HEAVY DUTY CARRIER.INSTALL 30" FROM RIM TO FINISHED FLOOR.
P-503	SCRUB SINK SENSOR OPERATED	2"	2"	1/2"	1/2"	SINK: ZURN MODEL Z5468AM VITREOUS CHINA SCRUB SINK, CONCEALED WALL HANGERS AND SUPPORT BRACKETS. FAUCET: ZURN MODEL No. Z6920-XL-ADM2-H4-FC1.5 ADA COMPLIANT, BATTERY POWERED, CHROME PLATED SENSOR FAUCET. FLOW RATE 1.5 GPM FLOW CONTROL IN BASE OF SPOUT, OCCUPANT DETECTION INFRARED CONVERGENCE-TYPE PROXIMITY SENSOR 30 SECOND TIME OUT FEATURE, SPOUT MODULE CHROME PLATED CAST BRASS, IN-LINE FILTER, ABOVE DECK MIXER WITH WRIST BLADE HANDLE AND 8" COVER PLATE. STRAINER/TAILPIECE: ZURN MODEL No. Z5460-DRAIN-V2 CP STRAINER WITH TAILPIECE. P-TRAP: PROFLO MODEL No. PFPTB403 CHROME PLATED CAST BRASS BODY P-TRAP, TUBULAR BRASS WALL BEND. STOPS AND RISERS: TWO PFXQAC32C LEAD FREE 1/4 TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 1/2" CP ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS. CARRIER: ZURN Z1224-2 CARRIER WITH BEARING PLATE ASSEMBLY.
P-608	SHOWER (SOLID SURFACE)	2"	2"	1/2"	1/2"	ENCLOSURE: 36"SOLID SURFACE BASE WITH CENTER DRAIN. WALLS, GRAB BAR, SOAP DISH, FOLD UP SEAT FURNISHED BY OTHERS. INPRO E3636LCCDB0 36"X36" LOW CURB SHOWER BASE, CENTER DRAIN, BONE. FAUCET: SYMMONS No. SYM9605-PLR-X-231 PRESSURE BALANCING SHOWER VALVE, ADA COMPLIANT, DIVERTER WITH VOLUME CONTROL, INTEGRAL SERVICE STOPS AND LEVER HANDLE. SUPER SHOWER HEAD WITH ARM AND FLANGE. ADA HAND HELD SHOWER, INLINE VACUUM BREAKER, 60" HOSE AND 36" SLIDE BAR. INSTALL FAUCET ASSEMBLY OFFSET AS DIRECTED BY THE ADA RULES. DRAIN: PROFLO PF-140NC CP DRAIN.
P-704	FLOOR SINK	AS NOTED ON PLANS	-	-	-	ZURN MODEL ZN-1901-KC, SANI-FLOR RECEPTOR 12" x 12" x 8" DEEP CAST IRON BODY AND SQUARE, LIGHT-DUTY FULL GRATE WITH 1/2" SLOTTED OPENINGS, WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, COMPLETE WITH WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER.
P-710	ROOF DRAIN	AS NOTED ON PLANS	-	-	-	ZURN MODEL ZA-100-DR, 15" DIAMETER ROOF DRAIN. DURA-COATED IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND LOW SILHOUETTE ALUMINUM DOME.
P-711	OVERFLOW DRAIN	AS NOTED ON PLANS	-	-	-	ZURN MODEL ZA-100-W2-DR, 15" DIAMETER ROOF DRAIN. DURA-COATED IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND LOW SILHOUETTE ALUMINUM DOME AND 2" INTERNAL WATER DAM.
P-721	FLOOR DRAIN DECON	AS NOTED ON PLANS	-	-	-	ZURN MODEL Z-550-NL-AR-P-Y, ROUND, ACID RESISTANT EPOXY COATED CAST IRON BODY WITH NEO-LOC BOTTOM OUTLET, SEEPAGE PAN AND COMBINATION MEMBRANE FLASHING CLAMP AND FRAME FOR MEDIUM-DUTY SLOTTED GRATE. SEDIMENT BUCKET AND TRAP PRIMER CONNECTION.
P-724	DOWNSPOUT NOZZLE	AS NOTED ON PLANS	-	-	-	ZURN MODEL ZARB199-IP-SS, ALL PLAIN BRONZE BODY DOWN SPOUT NOZZLE WITH THREADED INLET AND REMOVABLE STAINLESS SCREEN.
P-804	ICE MAKER BOX	-	-	1/2"	-	OATEY MODEL 39140 20 GAUGE STEEL ICE MAKER BOX WITH 1/4 TURN BALL VALVE AND WATER HAMMER ARRESTOR, LOW LEAD COMPLIANT.
P-816	EMERGENCY EYEWASH	-	-	1/2"	1/2"	EYEWASH: BRADLEY MODEL S1944011ABC, WALL MOUNTED HAND HELD EMERGENCY EYE/FACE WASH. STAYS OPEN CONTROL VALVE. REINFORCED THERMOPLASTIC 12' HOSE. DUAL SPRAY HEADS WITH DUST COVERS. FLOW RATE: 3.9-5.9 GPM. MIXING VALVE: BRADLEY S19-2000 THERMOSTATIC MIXING VALVE. CHECKSTOPS ON INLETS, ADJUSTABLE SET POINT, COLD WATER BY-PASS, DIAL THERMOMETER.
P-817	DECONTAM SHOWER INTERIOR	-	-	1/2"	1/2"	FAUCET: SYMMONS No. 125-VT-FSX-72 VISU-TEMP PRESSURE BALANCING SHOWER VALVE, INTEGRAL SERVICE STOPS AND LEVER HANDLE. HAND HELD SHOWER, INLINE VACUUM BREAKER, 72" HOSE AND ATTACHMENT HOOKS. MIXING VALVE: BRADLEY S19-2000 THERMOSTATIC MIXING VALVE. CHECKSTOPS ON INLETS, ADJUSTABLE SET POINT, COLD WATER BY-PASS, DIAL THERMOMETER.
P-831	LAVATORY - WALL HUNG FAUCET/EYE WASH COMBINATION ADA COMPLIANT	2"	2"	1/2"	1/2"	LAVATORY: ZURN MODEL No. Z5348 20X18 WALL MOUNT VITREOUS CHINA LAVATORY, VITREOUS CHINA. BARRIER FREE. FAUCET AND MIXING VALVE: SPEAKMAN MODEL No. SEF1800-CA-LF-TW RIGID GOOSENECK SPOUT WITH INDEPENDENTLY OPERATED EYEWASH, WITH 1.5 GPM LAMINER FLOW CONTROL, WITH 4" WRISTBLADE HANDLES. 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 1/4 TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS. CARRIER: ZURN MODEL Z1231 FLOOR MOUNTED CARRIER
P-832	JANITOR SINK AND EYEWASH	3"	2"	3/4"	3/4"	MOP SINK: STERN WILLIAMS #SB-902, 24" X 24" X 12" SQUARE TERRAZZO MOP SINK WITH STAINLESS STEEL CAP, SS RIM GAURDS AND PROFLO PFWG24S SS WALL GUARDS FOR 24X24 MOP BASIN FAUCET:SPEAKMAN SEF9000-TW EYEWASH FAUCET AND MIXING VALVE TRANNER/TAILPIECE:STERN-WILLIAMS TC37CNH GASKET. DRAIN: STERN WILLIAMS ST-2NH MOP SINK GASKET FOR CAST IRON PIPE. AT EACH MOP SINK LOCATION PROVIDE A 1/2" REDUCED PRESSURE BACKFLOW PREVENTER (RPZ) ON A HOT WATER LINE ADJACENT TO THE MOP SINK FOR CONNECTION TO A SOAP MACHINE.

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Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

wsp

300 WYANDOTTE, SUITE 200
KANSAS CITY, MO 64105

STATE OF MISSOURI
JONATHAN DECKERT NUMBER PE-2021039309
PROFESSIONAL ENGINEER
08/06/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05
E	DESIGN COORDINATION	2025/07/30

DATE:	2025/04/18
SCALE:	
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

SCHEDULES - PLUMBING

P08-01

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GENERAL NOTES

A. REFER TO M00-00 FOR GENERAL MECHANICAL NOTES AND SYMBOLS.
B. CONTRACTOR TO VERIFY EXISTING CONDITIONS. EXISTING WORK SHOWN IS APPROXIMATE AND REPRESENTATIVE OF EXISTING DESIGN AND AS-BUILT DRAWINGS.
C. PROVIDE REMOTE ADJUSTABLE DAMPERS FOR ANY BALANCING DAMPERS LOCATED ABOVE HARD CEILINGS.
D. ACCESS PANELS TO BE PROVIDED FOR ANY MECHANICAL EQUIPMENT OR MECHANICAL DEVICES REQUIRING SERVICE LOCATED ABOVE HARD CEILINGS.

LEGEND NOTES

1. PROVIDE SOUND LAGGING FOR 15' OF HORIZONTAL DUCT AND VERTICAL DUCT UP TO EXHAUST FAN AS SHOWN WITH DASHED LINE. REFER TO DETAILS 06/M07-01 AND 05/M07-03.
2. 8"X14" STAINLESS STEEL EA DUCT UP TO DEF-1 ON ROOF.
3. 26"X18" EXISTING EA DUCT UP TO EF-2 ON ROOF.
4. 16"16" EXISTING EA DUCT UP TO EF-1 ON ROOF.
5. 12"X8" EA-I DUCT UP TO IRF-8 ON ROOF.
6. BALANCE EXISTING DIFFUSER OR GRILLE TO CFM SHOWN ON PLAN.
7. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU-1.
8. ROUTE NEW DUCTWORK AROUND EXISTING P-TUBE.
9. CONTRACTOR TO FIELD VERIFY EXISTING VAV ACCESS IS NOT OBSTRUCTED BY NEW DOUBLE DOORWAY. IF EXISTING VAV ACCESS IS OBSTRUCTED, CONTRACTOR TO SHIFT EXISTING VAV OUT OF OBSTRUCTION AS NEEDED TO OBTAIN FULL VAV ACCESS.

1 FLOOR PLAN - LEVEL 01 - HVAC
1/8" = 1'-0"

LEVEL 1 - KEYPLAN

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

WSP
300 WYANDOTTE, SUITE 200
KANSAS CITY, MO 64105

STATE OF MISSOURI
JONATHAN DICKERT
NUMBER PE-2012039309
PROFESSIONAL ENGINEER
08/06/2025
WSP USA Buildings Inc. 2013001881

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2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
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REV #	DESCRIPTION	DATE
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C	STATE - 2ND REVIEW COMMENTS	2025/07/30

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FLOOR PLAN - LEVEL 01 - HVAC

M02-01

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GENERAL NOTES

A. REFER TO SHEET E00-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES
B. REFER TO SHEET E08 SERIES FOR FEEDER AND PANELBOARD SCHEDULES.
C. REFER TO AND COORDINATE WITH THE ARCHITECTURAL PLANS, ELEVATIONS, EQUIPMENT VENDOR DRAWINGS AND DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES
D. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO: SMOKE DAMPERS, FIRE/SMOKE DAMPERS, VAV BOXES, FCU'S, ETC. WITH MECHANICAL DRAWINGS AND DIVISION 23 CONTRACTOR
E. COORDINATE LOCATIONS OF ALL DISCONNECTS, CONTROL PANELS, AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES.

LEGEND NOTES

#	
1	REFER TO "ENLARGED LEVEL 01 - EXAM RM TYPICAL - POWER" ON 07/E05-01 FOR TYPICAL POWER DEVICE LAYOUT.
2	DEVICE(S) TO BE LOCATED IN TV BACK-BOX; REFER TO TECHNOLOGY DRAWINGS FOR SPECIFICATION AND DETAILS. COORDINATE EXACT LOCATION WITH MONITOR/ TV MOUNTING BRACKET. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR BRACKET MOUNTING HEIGHT AND EXACT LOCATIONS PRIOR TO ROUGH-IN.
3	PROVIDE BLANK FACE (FACELESS) GFCI IN A READILY ACCESSIBLE LOCATION FOR RECEPTACLE INDICATED LABEL PER DEVICE INDICATED ON DRAWINGS. REFER TO DETAIL 01/E07-01 FOR ADDITIONAL DETAILS.
4	PROVIDE 120V POWER CONNECTION TO VAV'S IN THIS AREA TO EMERGENCY EQUIPMENT CIRCUIT INDICATED. PROVIDE 20A 1P SWITCH AT CONTROL TRANSFORMER(S); REFER TO MECHANICAL DRAWINGS FOR BOX LOCATIONS. MAXIMUM OF 15 TERMINAL UNITS PER CIRCUIT. QUANTITY OF VAV'S SHALL BE BALANCED BETWEEN THE CIRCUITS INDICATED IN THE SAME SMOKE ZONE. TERMINAL UNITS IN DIFFERENT SMOKE ZONES SHALL NOT BE ON THE SAME CIRCUIT.
5	PROVIDE 120V POWER CONNECTION TO FIRE/SMOKE DAMPERS, SMOKE DAMPERS, AND MOTORIZED DAMPERS IN THIS AREA. PROVIDE SEPARATE RELAYS FOR EACH DUCT DETECTOR TO MEET MECHANICAL SEQUENCES. REFER TO THE ARCHITECTURAL LIFE SAFETY PLANS FOR SMOKE WALLS AND MECHANICAL PLANS FOR THE LOCATIONS OF ALL FIRE/SMOKE DAMPERS, SMOKE DAMPERS, AND MOTORIZED DAMPERS.
B	
6	CONNECT TO EXISTING CIRCUITS PREVIOUSLY SERVING ALARM PANELS. EXTEND WIRING AND CONDUIT AS NEEDED.
7	PROVIDE SEPARATE 1" CONDUIT PATHWAY UNDERNEATH NURSE STATION FOR ROUTING OF NORMAL AND CRITICAL EMERGENCY POWER CIRCUITS INDICATED IN THIS NURSE STATION MILLWORK. RUN CONDUIT AND CONDUCTORS OVERHEAD TO NEAREST WALL, DOWN WALL, AND THEN SAWCUT SLAB OVER TO NURSE STATION.
8	INDOOR UNIT TO BE SERVED FROM OUTDOOR UNIT. REFER TO OUTDOOR UNIT FOR FEEDER REQUIREMENTS.
B	
9	ALARM PANEL TO BE RELOCATED TO NEW LOCATION AS SHOWN. VERIFY LAYOUT OF ALL ALARM PANELS WITH THE ENGINEER OF RECORD PRIOR TO INSTALLATION.

1 FLOOR PLAN - LEVEL 01 - POWER
1/8" = 1'-0"

LEVEL 1 - KEYPLAN

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

wsp
300 WYANDOTTE, SUITE 200
KANSAS CITY, MO 64105

REGISTERED PROFESSIONAL ENGINEER — WENDY SUSAN WHEELER — NUMBER PE-2017006125 — 08/06/2025

WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
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C	STATE - 2ND REVIEW COMMENTS	2025/07/30

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FLOOR PLAN - LEVEL 01 - POWER

E02-01

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GENERAL NOTES

A. REFER TO AND COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, EQUIPMENT VENDOR DRAWINGS AND DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHT OF ALL WIRING DEVICES
B. REFER TO SHEET E00-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES.
C. REFER TO SHEET E08-01 FOR LIGHT FIXTURE SCHEDULES.
D. CONTRACTORS SHALL USE FMC TRANSITIONS FROM EMT AT BUILDING EXPANSION JOINTS WHEN APPLICABLE. FMC ROUTING SHALL BE PROVIDED TO ALLOW LATERAL AND VERTICAL ADJUSTMENTS IN LINE WITH COORDINATE EXACT LOCATIONS OF EXPANSION JOINTS WITH ARCHITECTURAL DRAWINGS

LEGEND NOTES

#	
1	REFER TO LIGHTING CONTROL SCHEDULE ON E08-01. COORDINATE LOCATION OF PHOTOCELL WITH THE ARCHITECT.
2	CONNECT TO EXISTING EXTERIOR LIFE SAFETY CIRCUIT AND CONTROL PREVIOUSLY SERVING THIS AREA.
3	DEVICES IN DECONTAMINATION ROOM SHALL BE PROVIDED WITH A WEATHERPROOF ENCLOSURE.

1 FLOOR PLAN - LEVEL 01 - LIGHTING
1/8" = 1'-0"

LEVEL 1 - KEYPLAN

Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

wsp

300 WYANDOTTE, SUITE 200
KANSAS CITY, MO 64105

BRADY DUNHAM WHEELER
NUMBER PE-2017006125
PROFESSIONAL ENGINEER
08/06/2025
WSP USA Buildings Inc. 2013001881

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REVISIONS		
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FLOOR PLAN - LEVEL 01 - LIGHTING

E03-01

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GENERAL NOTES

A. REFER TO SHEET E00-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES.
B. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO F/S DAMPERS, VAV BOXES, FCU'S ETC. WITH MECHANICAL DRAWINGS AND DIV.23 CONTRACTOR.
C. DO NOT SCALE DEVICE LOCATIONS FROM THESE DRAWINGS. REFER TO AND COORDINATE WITH THE ARCHITECTURAL DOCUMENTS. SPECIFICALLY, REFER TO ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR SPECIALTY
D. DELEGATED DESIGN OF FIRE ALARM: REFER TO DIVISION 28 SPECIFICATION SECTION FOR ADDITIONAL SYSTEM REQUIREMENTS. FIRE ALARM INITIATING DEVICES, NOTIFICATION APPLIANCES, CONTROL PANELS, ANNUNCIATOR PANELS, AND OTHER PERIPHERAL DEVICES SHOWN ON THESE DOCUMENTS DO NOT CONSTITUTE THE TOTAL QUANTITY OR TYPE OF DEVICES REQUIRED FOR THE WORK. THE DEVICES AND EQUIPMENT INDICATED ON THESE DOCUMENTS IS SHOWN FOR THE PURPOSE OF COORDINATION ONLY. THESE DRAWINGS AND THE ACCOMPANYING SPECIFICATIONS DEFINE THE SCOPE AND INTENT OF THE FIRE ALARM SYSTEM TO BE PROVIDED IN THE WORK. IN ADDITION TO THE SYSTEM AS SHOWN HEREIN AND SPECIFIED IN THE PROJECT MANUAL, THE LICENSED FIRE ALARM CONTRACTOR SHALL PROVIDE ALL PLANNING, DESIGN, CALCULATIONS, EQUIPMENT, DEVICES, RACEWAYS, BOXES, CABLING, SYSTEM PROGRAMMING AND ANY OTHER COMPONENT OR SERVICE REQUIRED FOR A COMPLETE, FULLY OPERATIONAL SYSTEM THAT MEETS ALL SPECIFIED REQUIREMENTS AND LOCAL CODES.
E. SMOKE DETECTOR SPACING: FOR AREAS WHICH ARE INDICATED TO HAVE SMOKE DETECTOR COVERAGE THAT DO NOT HAVE A SUSPENDED CEILING (I.E. OPEN TO STRUCTURE), PROVIDE ONE DETECTOR PER STRUCTURAL POCKET TO MEET REQUIREMENTS OF NFPA 72. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES AND TO STRUCTURAL SLAB DETAILS FOR SLAB DEPRESSIONS THAT MAY CAUSE CONDITIONS REQUIRING ADDITIONAL DETECTORS.
F. DETECTORS AT DAMPERS: PROVIDE A DUCT MOUNTED SMOKE DETECTOR AT ALL SMOKE AND COMBINATION FIRE/SMOKE DAMPER LOCATIONS. EACH DAMPER SHALL HAVE A DISCRETE RELAY LOCATED WITHIN 3 FT. OF THE CONTROLLING COMPONENT. COMMON RELAYS ARE NOT ACCEPTABLE. EXACT DEVICE QUANTITIES AND LOCATIONS FOR DAMPERS ARE SHOWN ON MECHANICAL DRAWINGS. REFER TO AND COORDINATE WITH DIVISION 23 DOCUMENTS, APPROVED SHOP DRAWINGS AND SUBMITTALS AND BETWEEN TRADES WITH HVAC INSTALLER PRIOR TO ROUGH-IN. REFER TO DIVISION 23 AND 28 SPECIFICATIONS AND TO DETAILS FOR ADDITIONAL REQUIREMENTS.
G. PROVIDE APPROPRIATE EQUIPMENT AND CONNECTION(S) REQUIRED TO RELEASE DOOR HOLDERS UPON ALARM SIGNAL FROM THE FIRE ALARM CONTROL PANEL.
H. PROVIDE EQUIPMENT AND CONNECTION(S) REQUIRED TO MONITOR KITCHEN HOOD SUPPRESSION SYSTEM(S).

LEGEND NOTES

1 EXISTING FIRE ALARM DEVICES TO REMAIN.
2 DEVICES IN DECONTAMINATION ROOM SHALL BE PROVIDED WITH A WEATHERPROOF ENCLOSURE.

1 FLOOR PLAN - LEVEL 01 - SPECIAL SYSTEMS
1/8" = 1'-0"

LEVEL 1 - KEYPLAN

Devenney GROUP
Devenney Group Ltd., Architects
6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251
T: 602.943.8950
www.devenneygroup.com

Consultant:
wsp
300 WYANDOTTE, SUITE 200
KANSAS CITY, MO 64105

STATE OF MISSOURI
MINDY SUSAN WHEELER
NUMBER PE-2017006125
PROFESSIONAL ENGINEER
08/06/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05
C	STATE - 2ND REVIEW COMMENTS	2025/07/30

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

FLOOR PLAN - LEVEL 01 - SPECIAL SYSTEM

E04-01

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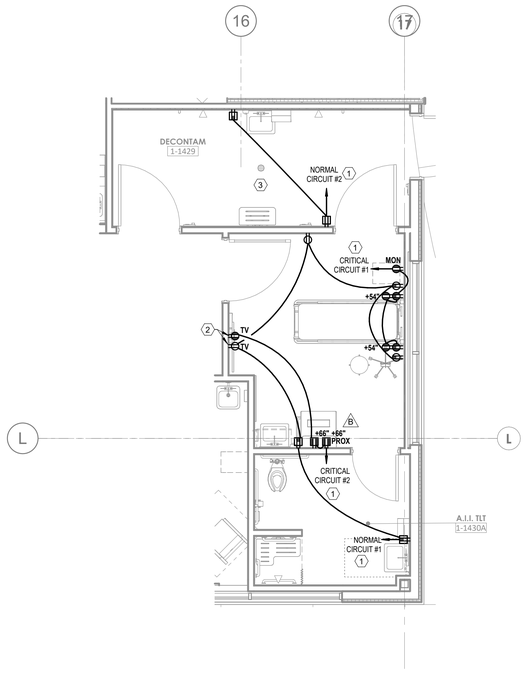
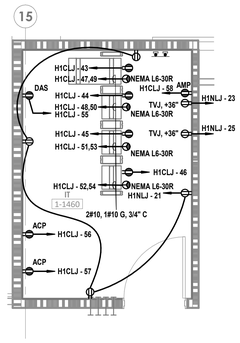
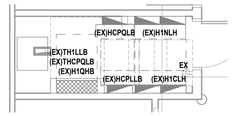


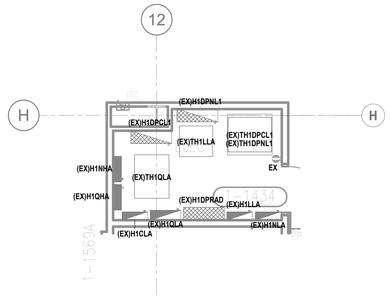
9 ENLARGED LEVEL 01 - A.I.I. EXAM, DECON - POWER
1/4" = 1'-0"



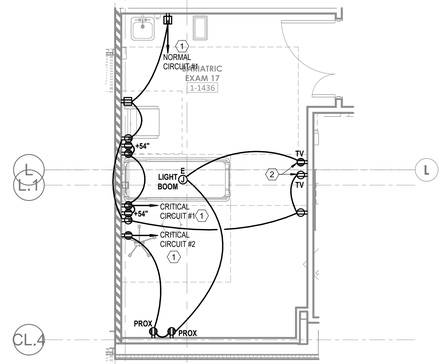
6 ENLARGED LEVEL 01 - IT 1-1460 - POWER
1/4" = 1'-0"



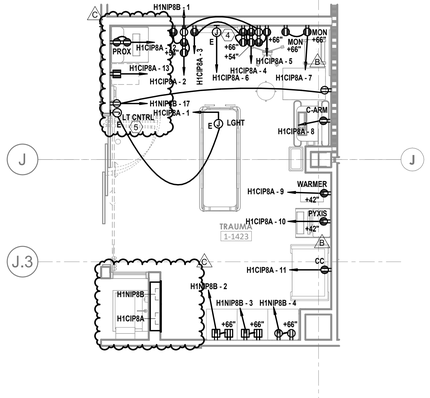
3 ENLARGED LEVEL 01 - ICU ELEC RM - POWER
1/4" = 1'-0"



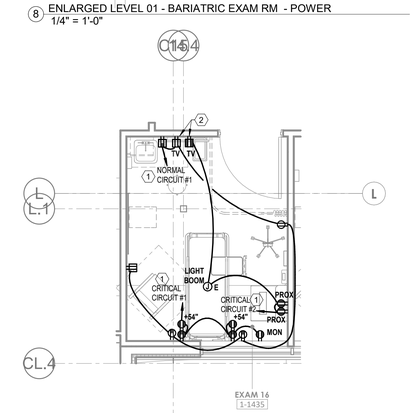
2 ENLARGED LEVEL 01 - ELEC ME 1-1434 - POWER
1/4" = 1'-0"



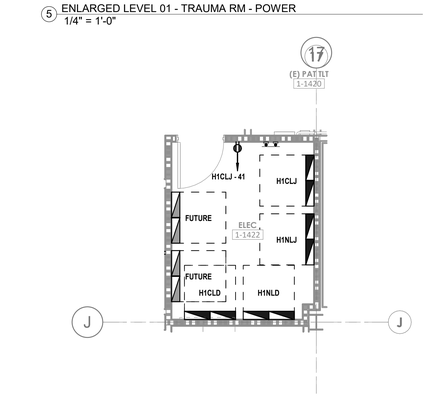
8 ENLARGED LEVEL 01 - BARIATRIC EXAM RM - POWER
1/4" = 1'-0"



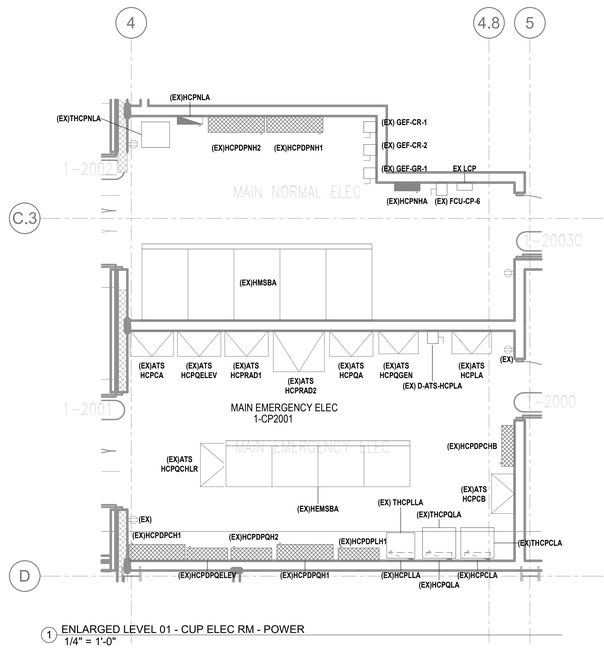
5 ENLARGED LEVEL 01 - TRAUMA RM - POWER
1/4" = 1'-0"



7 ENLARGED LEVEL 01 - EXAM RM TYPICAL - POWER
1/4" = 1'-0"



4 ENLARGED LEVEL 01 - ELEC ME 1-1422 - POWER
1/4" = 1'-0"



1 ENLARGED LEVEL 01 - CUP ELEC RM - POWER
1/4" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET E00-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES
B. REFER TO SHEET E08 SERIES FOR FEEDER AND PANELBOARD SCHEDULES.
C. REFER TO AND COORDINATE WITH THE ARCHITECTURAL PLANS, ELEVATIONS, EQUIPMENT VENDOR DRAWINGS AND DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES
D. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO: SMOKE DAMPERS, FIRE/SMOKE DAMPERS, VAV BOXES, FCU'S, ETC. WITH MECHANICAL DRAWINGS AND DIVISION 23 CONTRACTOR
E. COORDINATE LOCATIONS OF ALL DISCONNECTS, CONTROL PANELS, AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES.

LEGEND NOTES

1 REFER TO E02 SERIES FLOOR PLANS FOR SPECIFIC PANELBOARD CIRCUITING.
2 DEVICE(S) TO BE LOCATED IN TV BACK-BOX; REFER TO TECHNOLOGY DRAWINGS FOR SPECIFICATION AND DETAILS. COORDINATE EXACT LOCATION WITH MONITOR/ TV MOUNTING BRACKET. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR BRACKET MOUNTING HEIGHT AND EXACT LOCATIONS PRIOR TO ROUGH-IN.
3 DEVICES IN DECONTAMINATION ROOM SHALL BE PROVIDED WITH A WEATHERPROOF ENCLOSURE.
4 FLUSH MOUNTED DIGITAL ELAPSED TIME CLOCK EQUAL TO PRIMEX #B2007Y2026F WITH REMOTE START-STOP-RESET CONTROL. COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
5 FLUSH MOUNT BOX FOR LIGHT CONTROLLER. ROUTE 1"C FROM CONTROLLER TO SURGICAL LIGHT.

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

300 WYANDOTTE, SUITE 200
KANSAS CITY, MO 64105

STATE OF ARIZONA — REGISTERED — MINDY SUSAN WHEELER — NUMBER PR-2017060125 — PROFESSIONAL ENGINEER

08/06/2025
WSP USA Buildings Inc. 2013001881

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MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
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SCALE: As indicated
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JOB NUMBER: US0040241.3707

ENLARGED FLOOR PLAN

E05-01

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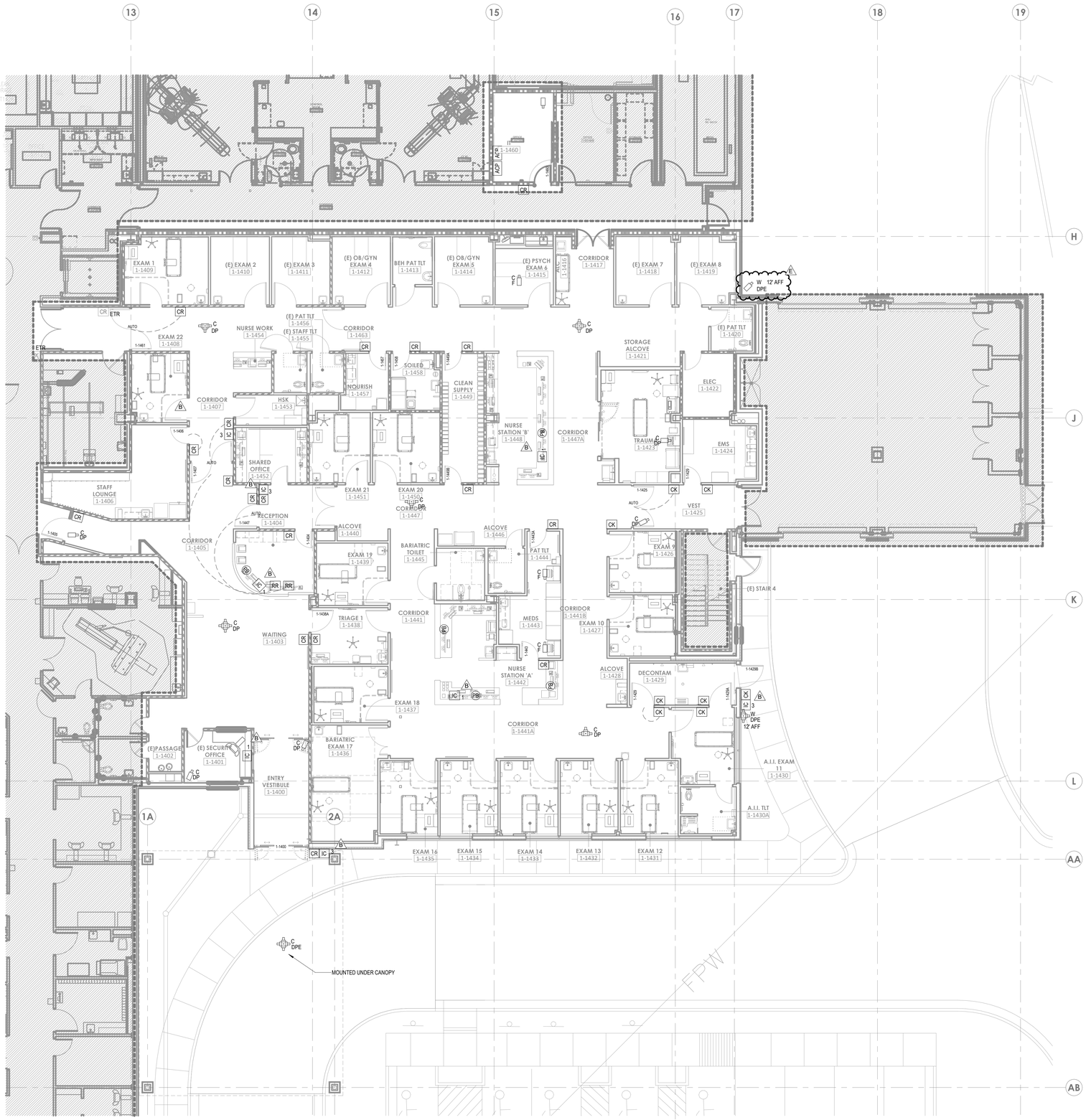
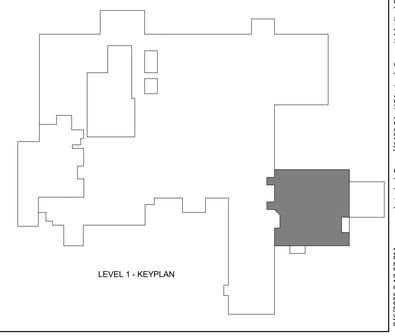
GENERAL NOTES:

A. REFER TO SHEET T00-00 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. ALL DOORS HAVING A CARD READER SHALL BE PROVIDED WITH DOOR CONTACT(S) AND A REQUEST-TO-EXIT SIGNALING DEVICE FOR DOOR STATUS/ DOOR FORCED NOTIFICATION CAPABILITY.
L. 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.
M. 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.
N. 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.
O. FIRE DROP RELAY SHALL BE PROVIDED BY FIRE ALARM CONTRACTOR FOR DOOR HARDWARE AND POWER SUPPLIES REQUIRING A FIRE ALARM INTERFACE.
P. CEILING MOUNTED VIDEO SURVEILLANCE CAMERAS SHALL BE PROVIDED WITH A 15' CABLE SERVICE LOOP ABOVE CEILING AT CAMERA END.
Q. 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.



1 FLOOR PLAN - LEVEL 01 - SECURITY
1/8" = 1'-0"



Devenney GROUP

Devenney Group Ltd., Architects

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Suite 500
Scottsdale, AZ 85251

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www.devenneygroup.com

Consultant:

wsp

300 WYANDOTTE, SUITE 200
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FLOOR PLAN - LEVEL 01 - SECURITY

T04-01

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