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:
2025/09/26 A A A A A 1 2

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
ASI-001 - DESIGN COORDINATION	09/26/2025 1
ASI-002 - DESIGN COORDINATION	10/24/2025 2

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

ROBERT C. CAMPBELL
ILLINOIS
NUMBER
A-001705
DATE SIGNED: 10.24.25

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INTERIOR DESIGNER
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PRINICPAL-IN-CHARGE/PROJECT MANAGER: JASON PERRY 615.963.3727

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

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SHEET INDEX

X = ISSUED 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	1 DESIGN COORDINATION - 07/30/2025	2 ASI-001 - DESIGN COORDINATION - 09/26/2025	3 ASI-002 - DESIGN COORDINATION_ 10/24/2025
GENERAL INFORMATION									
GI000	COVER SHEET	X	R	R	R	R	R	R	R
GI001	SHEET INDEX	X	R	R	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			R	R
AE102	DIMENSION FLOOR PLAN - LEVEL 1	X	R	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	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			R
AE402	ENLARGED PLANS, INTERIOR ELEVATIONS & 3D VIEWS - TYPICAL EXAM ROOM	X			R				R
AE403	ENLARGED PLANS, INTERIOR ELEVATIONS & 3D VIEWS - A.I.I.	X			R				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				R
AE408	ENLARGED PLANS, INTERIOR ELEVATIONS & 3D VIEWS - STAFF LOUNGE, NURSE WORK, EMS	X	R	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				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							R

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AE740	CASEWORK AND MILLWORK DETAILS	X							
AE741	MILLWORK DETAILS	X							
INTERIORS									
AF001	GENERAL FINISH SPECIFICATIONS AND NOTES	X		R	R		R		R
AF002	GENERAL FINISH SPECIFICATIONS AND NOTES	X		R			R	R	R
AF101	FINISH FLOOR PLAN - LEVEL 1	X		R	R		R	R	R
AF102	WALL PROTECTION PLAN - LEVEL 1	X			R		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				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							R
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							

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Consultant:

DUDLEY C. CAMPBELL
NUMBER E-20210045549
ARIZONA

DATE SIGNED: 10.24.25

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
1	ASI-001 - DESIGN COORDINATION	2025/09/26
2	ASI-002 - DESIGN COORDINATION	2025/10/24

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.

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

11/5/2025 11:25:38 AM

LEVEL 1 PLUMBING FIXTURE REQUIREMENTS

CLASSIFICATION	OCCUPANCY	DESCRIPTION	WATER CLOSETS		LAVATORIES		BATHTUBS OR SHOWERS	DRINKING FOUNTAINS	OTHER
			MALE	FEMALE	MALE	FEMALE			
INSTITUTIONAL	I-2	MEDICAL CARE RECIPIENTS IN HOSPITALS AND NURSING HOMES1	1 PER ROOM		1 PER ROOM		1 PER 15	1 PER 100	1 SERVICE SINK
			28		28		28	28	1
		REQUIRED	28		28		1.87	1	
		PROVIDED	**28**		**28**		**28**	**1 (EXISTING)**	**1**
	I-2	EMPLOYEES IN HOSPITALS AND NURSING HOMES1	1 PER 25	1 PER 25	1 PER 35	1 PER 35		1 PER 100	
			10	10	10	10	-	20	-
		REQUIRED	1	1	1	1		1	
		PROVIDED	**28**		**28**		**-**	**1 (EXISTING)**	**-**
	I-2	VISITORS IN HOSPITALS AND NURSING HOMES	1 PER 75	1 PER 75	1 PER 100	1 PER 100		1 PER 500	
			41	41	41	41	-	82	-
		REQUIRED	1	1	1	1		1	
		PROVIDED	**1 (EXISTING)**	**1 (EXISTING)**	**1 (EXISTING)**	**1 (EXISTING)**	**-**	**1 (EXISTING)**	**-**

NOTES:
*TOTAL OCCUPANTS FOR LEVEL 3 ADDITION IS 129 OCCUPANTS. REFER TO SHEET AC103 FOR ADDITIONAL INFORMATION ON OCCUPANT LOAD CALCULATIONS.
1. TOILET FACILITIES FOR EMPLOYEES SHALL BE SEPARATE FROM FACILITIES FOR INMATES OR CARE RECIPIENTS
2. THE OCCUPANT LOAD FOR SEASONAL OUTDOOR SEATING AND ENTERTAINMENT AREAS SHALL BE INCLUDED WHEN DETERMINING THE MINIMUM NUMBER OF FACILITIES REQUIRED

PROJECT SYMBOLS

DIMENSION LINE — 12'-0" / TO FACE OF FRAMING OR CENTERLINE OF STRUCTURE

NORTH ARROW — TRUE NORTH / REFERENCE NORTH

BUILDING SECTION — SECTION DESIGNATION / SHEET NUMBER

WALL SECTION — SECTION DESIGNATION / SHEET NUMBER

DETAIL — DETAIL NUMBER / SHEET NUMBER

EXTERIOR ELEVATION — ELEVATION DESIGNATION / SHEET NUMBER

INTERIOR ELEVATION — ELEVATION DESIGNATION / SHEET NUMBER

PARTITION TYPE — A4

DOOR IDENTIFICATION — DOOR # / NEW / EXIST.

WINDOW IDENTIFICATION — A

EQUIPMENT IDENTIFICATION — 54123

ROOM NAME AND NUMBER — ROOM NAME: LOBBY / ROOM NUMBER: 105

CEILING ELEVATION REFERENCE — 9'-0"

KEYNOTE REFERENCE — XX

ELEVATION/DATUM REFERENCE — LEVEL FINISH FLOOR 100'-0"

ELEVATION CHANGE REFERENCE — 1'-0"

MATERIAL CHANGE REFERENCE — CT / CPT

REVISION — A

PRE-PERMIT REVISION — STANDARD

MATCH LINE — SHEET NUMBER-SIDE MATCHED TO: 1/AE203

COLUMN OR GRID LINE — D / 2

KEY FOR ENLARGED PLAN — 1 / AE411

VICINITY MAP

PROJECT GENERAL NOTES

1. GENERAL NOTES APPLY TO ALL DRAWINGS.
2. LABOR, MATERIALS, CONSTRUCTION METHODS AND WORK TO CONFORM TO THE LATEST GOVERNING CODES, RULES AND REGULATIONS FOR THIS PROJECT AND JURISDICTION. THE MOST STRINGENT SHALL PREVAIL.
3. WHEN REQUIRED BY CODE, RULES OR REGULATIONS, WORK MUST BE INSPECTED AND APPROVED BY AUTHORITY HAVING JURISDICTION.
4. VERIFY EXISTING SITE CONDITIONS PRIOR TO STARTING WORK AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
5. VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION AND/OR CONSTRUCTION; NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE DRAWINGS WHICH AFFECT THE SCOPE AND INTENT OF THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS.
6. DO NOT MEASURE DRAWINGS. DIMENSIONS TO BE FIELD MEASURED AND VERIFIED. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
7. FIELD VERIFY DIMENSIONS OF OPENINGS FOR DOORS AND WINDOWS PRIOR TO FABRICATION.
8. FIELD VERIFY SPACES REQUIRING CABINETS, COUNTERS, CASEWORK, ETC. PRIOR TO FABRICATION.
9. COORDINATE MECHANICAL, PLUMBING AND ELECTRICAL CHASE SIZES AND LOCATIONS.
10. GYPSUM BOARD TO BE 5/8" TYPE 'X' FIRE RATED UNLESS NOTED OTHERWISE.
11. GYPSUM BOARD AT NON-RATED INTERIOR PARTITIONS TERMINATES 6" (MINIMUM) ABOVE THE HIGHEST ADJACENT CEILING UNLESS NOTED OTHERWISE.
12. SCRIBE GYPSUM BOARD TO IRREGULARITIES OF ADJACENT SURFACES; SEAL TIGHT AROUND PENETRATIONS.
13. SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES WITH APPROVED MATERIALS AND METHODS MEETING REQUIREMENTS OF AGENCY HAVING JURISDICTION.
14. NEW WORK TO ALIGN WITH AND MATCH EXISTING EXCEPT WHERE OTHERWISE DIMENSIONED OR DETAILED.
15. WHEN EXISTING EQUIPMENT, FIXTURES, PIPING, DUCTS, ETC. ARE REMOVED SUCH REMOVAL SHALL INCLUDE ANCHORS, HANGERS, BASE, ETC.; AFTER REMOVAL, PATCH FLOORS, WALLS AND CEILINGS TO MATCH ADJACENT SURFACES IN MATERIAL, TEXTURE AND COLOR.
16. PATCH EXISTING PARTITIONS AND WALLS WITHIN THE SCOPE OF THE PROJECT THAT ARE DENTED OR DAMAGED AND FILL ALL NAIL HOLES, ETC. TO PREPARE FOR FINISH AS PER NEW FINISHES REQUIREMENTS.
17. PATCH AND REPAIR PARTITIONS, WALLS AND FLOORS CUT OUT FOR MECHANICAL, PLUMBING OR ELECTRICAL WORK.
18. PROVIDE GYPSUM BOARD BARRIER (FIRE RATED ASSEMBLIES WHERE REQUIRED) WITH ACCESS BETWEEN CONSTRUCTION AREA AND EXISTING AREA TO REMAIN. NO FUMES, DUST OR DEBRIS IS PERMITTED OUTSIDE OF THE CONSTRUCTION BARRIER.

DISCLAIMER

THESE COMPOSITION PLANS WERE DEVELOPED USING THE RECORD CONSTRUCTION PLANS PROVIDED BY THE CLIENT. RECORD DRAWINGS WERE UTILIZED TO GENERATE THE COMPOSITE PLANS. VERIFICATIONS WERE MADE FOR MINOR ALTERATION AND DEVIATIONS FROM THE ORIGINAL CONSTRUCTION PLANS. EXTENSIVE AS-BUILT VERIFICATION WAS NOT PERFORMED FOR THE COMPOSITE PLANS. THE COMPOSITE PLANS WERE UTILIZED FOR THE BASE PLANS FOR THE DEVELOPMENT OF THE MECHANICAL AND ELECTRICAL COMPOSITE PLANS. LIMITED FIELD VERIFICATION OF MECHANICAL AND ELECTRICAL SYSTEMS WERE PERFORMED TO DETERMINE LOCATIONS OF MAJOR COMPONENTS, FIRE PROTECTION AND LIFE SAFETY SYSTEMS

DEFERRED SUBMITTALS

- FIRE/SMOKE ALARM DESIGN AND ENGINEERING
- FIRE SUPPRESSION DESIGN AND ENGINEERING
- STOREFRONT DESIGN AND ENGINEERING
- SPRAY APPLIED FIRE PROOFING DESIGN AND ENGINEERING
- FIRE RESISTANT JOINT SYSTEM DESIGN AND ENGINEERING
- EXTERIOR SIGNAGE DESIGN AND ENGINEERING
- INTERIOR SIGNAGE DESIGN AND ENGINEERING
- LIGHT GAGE METAL STUD FRAMING DESIGN AND ENGINEERING
- A FIRE PROTECTION ASSEMBLIES - J1 DETAILS

PROJECT DATA

PROJECT NAME	HCA - LEE'S SUMMIT MEDICAL CENTER - EMERGENCY DEPARTMENT EXPANSION
ADDRESS	2100 SE BLUE PKWAY
	LEE'S SUMMIT, MO 64063
BRIEF PROJECT DESCRIPTION	
	THIS PROJECT INCLUDES THE FOLLOWING COMPONENT: •LEVEL 1: - NEW CONSTRUCTION AND RENOVATION TO EXPAND THE EXISTING ED DEPARTMENT WITH ADDITIONAL EXAM ROOMS AND STAFF SUPPORT SPACES. MAJOR AND MINOR RENOVATION OF EXISTING SPACES TO ALLOW FOR A COHESIVE LOOK THROUGH OUT THE EMERGENCY DEPARTMENT.
PROJECT SCOPE AREAS (GROSS)	
	LEVEL 1: - EMERGENCY DEPARTMENT
	11,990 SF RENOVATION
TOTAL PROJECT AREA (GROSS)	**11,990 (SF)**
CONSTRUCTION TYPE (HOSPITAL)	IB A
Fire Sprinklers	Full Per NFPA 13
Fire Alarms	Provided
Emergency Lighting	Provided

Fire Resistance Rating Requirements for Building Elements		
Building Element	TYPE IB CONSTRUCTION (HOSPITAL)	
Primary Structural Frame	2a,b	Hours
Bearing walls: Exterior	2	Hours
Bearing walls: Interior	2a	Hours
Nonbearing walls and partitions: Exterior	Varies by distance from property line. See IBC table 602.	
Nonbearing walls and partitions: Interior	0	Hours
Floor construction and associated secondary members	2	Hours
Roof construction and associated secondary members	1b	Hours

A *a. Roof Supports: Fire-resistance ratings of primary structural frame and bearing walls are permitted to be reduce by 1 hour where supporting roof only. b. Except in Group F-1, H, M and S-1 occupancies, fire protection of structural members shall not be required, including protection of roof framing and decking where every part of the roof construction is 20 feet or more above any floor immediately below. Fire-retardant-treated wood members shall be allowed to be used for such unprotected members. c. In all occupancies, heavy timber complying with section 2304.11 shall be allowed where 1-hour or less fire-resistance rating is required.*

Governing Codes (Local)	**Life Safety, Building Code, & Accessibility Review - City of Lee's Summit, MO**
	2018 International Building Code.
	2017 National Electrical Code.
	2018 International Mechanical Code.
	2018 International Plumbing Code.
	2018 Fuel Gas Code.
	2018 International Fire Code.
	ICC/ANSI A117.1-2009, Accessible and Usable Buildings and Facilities
Governing Codes (Jurisdictional)	**Missouri Dept. of Health and Senior Services**
	2014 Guidelines for Design and Construction of Health Care Facilities
	The following 2012 National Fire Codes (NFPA)
	a. NFPA 70 National Electrical Code
	b. NFPA 101 Life Safety Code
	c. 2012 Supplements

Devenney Group

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

DUDLEY C. CAMPBELL — NUMBER A-2021009549 — STATE OF MISSOURI

DATE SIGNED: 06.05.25

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

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

PROJECT INFORMATION, AREA MAPS, SYMBOLS

GI101

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

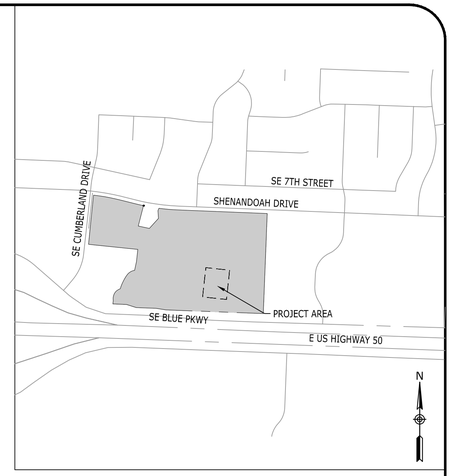
6/23/2025 9:49:02 AM

CONSTRUCTION DOCUMENTS

LEE'S SUMMIT ED EXPANSION

LEE'S SUMMIT, JACKSON COUNTY, MO

PL2025054
CATALYST PROJECT NO. 20240037
APRIL 18, 2025



VICINITY MAP
NOT TO SCALE

SITE DATA

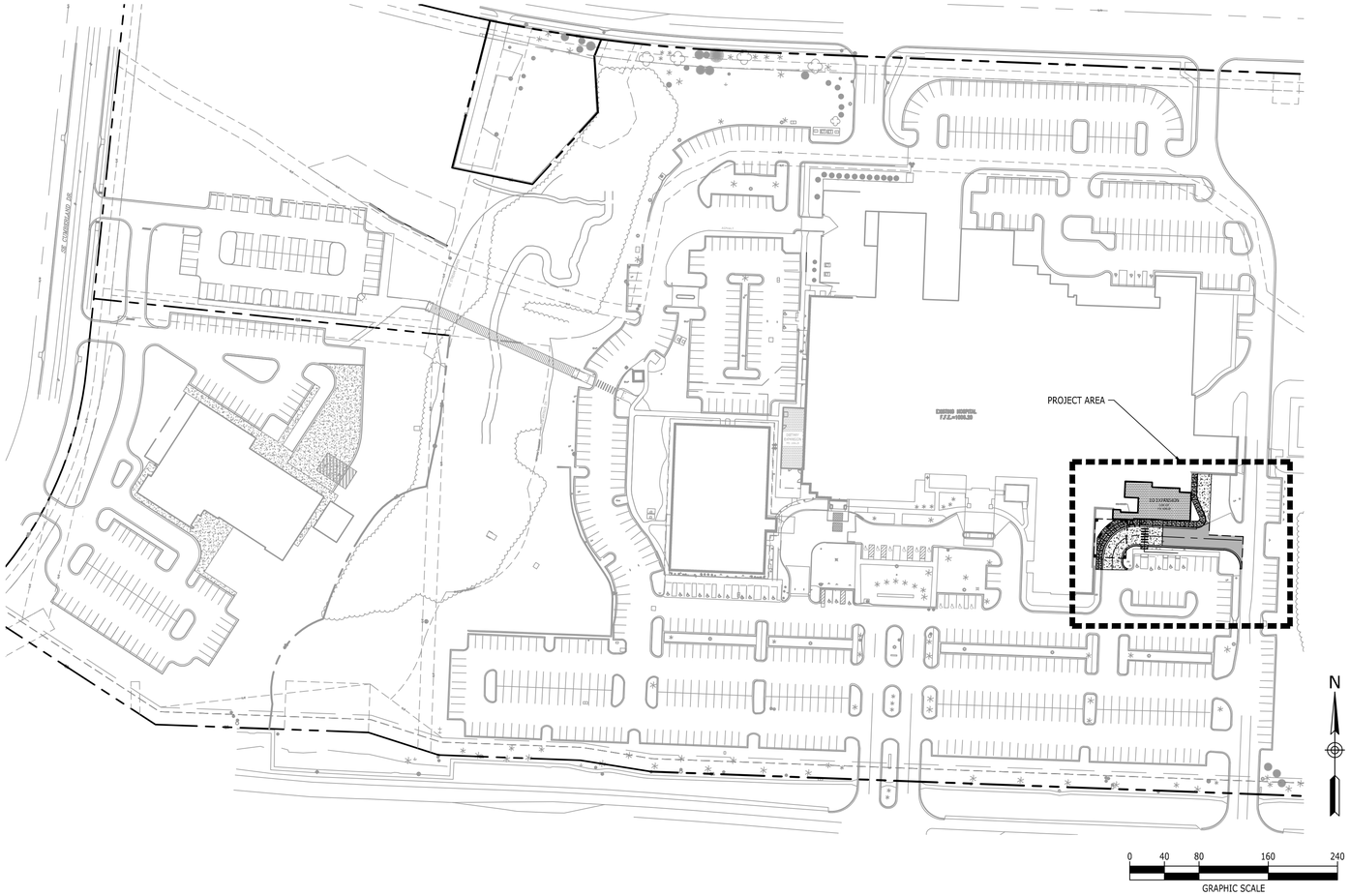
TAX MAP:	60
PARCEL ID.:	60-420-99-15-00-0-00-000
SITE ADDRESS:	2000 SHENANDOAH DRIVE LEE'S SUMMIT, MO 64063
SITE ACREAGE:	24.48 AC. (1,066,349 FT²)
EXISTING ZONING:	CP-2
PROPOSED USE:	HOSPITAL
IMPERVIOUS SURFACE AREA	
BUILDINGS:	0.06 AC. (2,804 FT²)
DRIVES/SIDEWALKS:	0.15 AC. (6,538 FT²)
TOTAL PROPOSED IMPERVIOUS AREA:	0.21 AC. (9,206 FT²)

PARKING REQUIRED:
PROPOSED ADDITION HAS NO IMPACT TO THE REQUIRED PARKING COUNT.

TOTAL PARKING REQUIRED:	
114 BEDS X 1.8 SPACES =	206 SPACES REQUIRED
122,799 SF OF MOB'S X (1,000 SF X 5) =	614 SPACES REQUIRED
TOTAL REQUIRED:	820 SPACES REQUIRED
EXISTING PARKING:	825 (INCLUDING PL2024191 PROPOSED PARKING SPACES)

OWNER:	MIDWEST DIVISION LSH LLC
ADDRESS:	PO BOX 80610 INDIANAPOLIS, IN 46280
PROJECT REPRESENTATIVE:	CATALYST DESIGN GROUP
ADDRESS:	1524 WILLIAMS DRIVE MURFREESBORO, TN 37129
PHONE NO.:	615-622-7200
CONTACT NAME:	JACK PARKER
CONTACT E-MAIL ADDRESS:	jparker@catalyst-dg.com

FEMA PANEL:
THE SUBJECT PROPERTY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD ZONE ACCORDING TO COMMUNITY PANEL NO. 29095C0439G, 01/20/2017, COMMUNITY NAME: JACKSON COUNTY.



Sheet List Table	
Sheet Number	Sheet Title
C0.0	COVER SHEET
C1.0	EXISTING CONDITIONS
C2.0	GENERAL NOTES
C3.0	DEMOLITION PLAN
C4.0	LAYOUT PLAN
C5.0	GRADING, DRAINAGE, & UTILITY PLAN
C5.1	DRAINAGE AREA MAP
C5.2	SITE ACCESSIBILITY PLAN
C6.0	SITE DETAILS
C6.1	SITE DETAILS
L1.0	LANDSCAPE PLAN
L2.0	TREE CONSERVATION PLAN
L3.0	LANDSCAPE DETAILS

LEGAL DESCRIPTION:

A TRACT OF LAND IN THE NORTHWEST QUARTER OD SECTION 36, TOWNSHIP 48, RANGE 32 IN THE CITY OD LEE'S SUMMIT, JACKSON COUNTY, MISSOURI MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHEAST CORNER OF THE NORTHWEST QUARTER OF SAID SECTION 36; THENCE NORTH 86 DEGREES 19 MINUTES 41 SECONDS WEST, ALONG THE SOUTH LINE OF SAID NORTHWEST QUARTER OD SAID SECTION 36, 310.15 FEET TO A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF OLD MISSOURI HIGHWAY 50, SAID POINT BEING THE TRUE POINT OF BEGINNING; THENCE CONTINUING ALONG A PROLONGATION OF THE LAST DESCRIBED COURSE, 225.49 FEET TO A PONT ON THE EASTERLY RIGHT-OF-WAY LINE OF RELOCATED MISSOURI HIGHWAY 50; THENCE NORTHEASTERLY ALONG A CURVE TO THE LEFT, ALONG SAID EASTERLY RIGHT-OF-WAY LINE, HAVING A RADIAL BEARING OF NORTH 74 DEGREES 59 MINUTES 09 SECONDS WEST AND A RADIUS OF 1104.93 FEET AN ARC DISTANCE OF 140.47 FEET, SAID POINT BEING 150.00 FEET EASTERLY FROM STA. 11+26.6 ON RAMP 8 ON SAID RELOCATED MISSOURI HIGHWAY 50, AS MEASURED PERPENDICULAR THERETO; THENCE NORTH 7 DEGREES 43 MINUTES 49 SECONDS EAST, PARALLEL WITH SAID RAMP 8AND ALONG SAID EASTERLY RIGHT-OF-WAY LINE, 180.60 FEET TO A POINT 150.00 FEET RIGHT OF STA 13+07.20 ON SAID RAMP 8, AS MEASURED PERPENDICULAR THERETO; THENCE NORTHEASTERLY ALONG A CURVE TO THE RIGHT, ALONG SAID EASTERLY RIGHT-OF-WAY LINE HAVING A RADIAL BEARING OF SOUTH 82 DEGREES 16 MINUTES 11 SECONDS EAST AND A RADIUS OF 613.94 FEET AN ARC DISTANCE OF 23.99 FEET TO A POINT 150.00 FEET RIGHT OF STA 13+37.05 ON SAID RAMP 8, AS MEASURED PERPENDICULAR THERETO; THENCE NORTH 77 DEGREES 07 MINUTES 26 SECONDS EAST, ALONG THE SOUTHERLY RIGHT-OF-WAY LINE OF INTERSTATE ROUTE 470, 61.96 FEET (60.9 FEET RECORD) TO A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF OLD MISSOURI HIGHWAY 50, SAID POINT BEING 90.00 FEET RIGHT OF STA 540+50.00 AS MEASURED PERPENDICULAR THERETO; THENCE SOUTH 16 DEGREES 28 MINUTES 19 SECONDS EAST ALONG SAID WESTERLY RIGHT-OF-WAY LINE, 384.30 FEET TO THE TRUE POINT OF BEGINNING.

ARCHITECT
DEVENNEY GROUP LTD., ARCHITECTS
6900 EAST CAMELBACK ROAD, SUITE 500
SCOTTSDALE, AZ 85251
(602) 943-8950

PREPARED FOR
LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063
(816) 282-5000

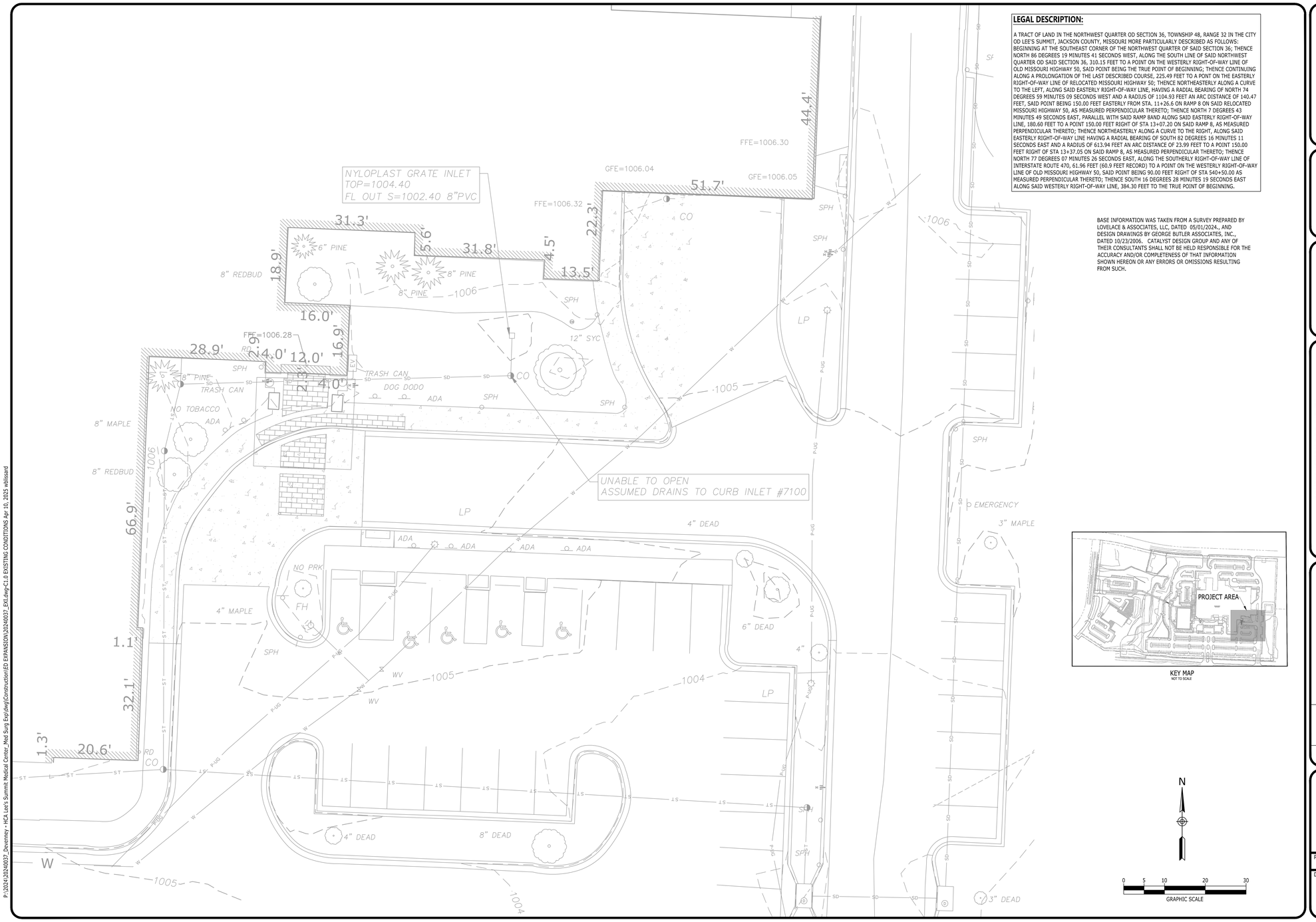
CIVIL ENGINEER/LANDSCAPE ARCHITECT
Catalyst DESIGN GROUP
1524 WILLIAMS DRIVE SUITE 201
MURFREESBORO, TN 37129
(615) 622-7200

STATE OF MISSOURI — JACK L. PARKER — NUMBER PE-2010040852 — PROFESSIONAL ENGINEER — 04/18/2025

STATE OF TENNESSEE — JARED CUNNINGHAM — REGISTERED LANDSCAPE ARCHITECT — 04/18/2025

COVER SHEET

C0.0



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BASE INFORMATION WAS TAKEN FROM A SURVEY PREPARED BY LOVELACE & ASSOCIATES, LLC, DATED 05/01/2024., AND DESIGN DRAWINGS BY GEORGE BUTLER ASSOCIATES, INC., DATED 10/23/2006. CATALYST DESIGN GROUP AND ANY OF THEIR CONSULTANTS SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY AND/OR COMPLETENESS OF THAT INFORMATION SHOWN HEREON OR ANY ERRORS OR OMISSIONS RESULTING FROM SUCH.

KEY MAP
NOT TO SCALE

N

0 5 10 20 30
GRAPHIC SCALE

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

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

CONSTRUCTION DOCUMENTS
HCA LEE'S SUMMIT
MEDICAL CENTER
2000 SE SHENANDOAH DRIVE
LEE'S SUMMIT, MO, 64063
JACKSON COUNTY

NO.	DESCRIPTION	DATE

DRAWING TITLE
EXISTING CONDITIONS

PROJECT NUMBER
20240037

DRAWING NUMBER
C1.0

Devenney GROUP
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

STATE OF MISSOURI
JACK S. PARKER
NUMBER
PE-2010040852
04/18/2025
MISSOURI DEPARTMENT OF INSURANCE, FINANCIAL INSTITUTIONS AND PROFESSIONAL REGISTRATION

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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:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	2025/04/18
SCALE:	1:10
DRAWN:	AP
REVIEWED:	JP
JOB NUMBER:	6406.24

EXISTING CONDITIONS

C1.0

P:\20241\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\ED EXPANSION\20240037_EXI.dwg-C1.0 EXISTING CONDITIONS Apr 10, 2025 wblissard
6/10/2024 9:05:24 PM Autodesk Docs://6406.24.0001 - HCA - LSMC MedSurg Expansion_rvt23/6406.24.0001 HCA - LSMC Med Surge Expansion.rvt

PROJECT NOTES

1. SUBJECT PROPERTY SHOWN ON TAX MAP 60, AS PARCEL 60-420-99-15-00-0-00-000 OF THE JACKSON COUNTY, MO, TAX MAPS.
2. SITE EXISTING CONDITIONS ARE TAKEN FROM SURVEY BY LOVELACE & ASSOCIATES, LLC DATED 05/01/2024. CATALYST DESIGN GROUP SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF OR OMISSIONS FROM THE EXISTING CONDITIONS OR ERRORS RESULTING THEREFROM.
3. CATALYST DESIGN GROUP RECOMMENDS THAT CONSTRUCTION STAKING BE PROVIDED BY A SURVEYOR LICENSED IN THE STATE OF THE PROJECT.
4. THE CONTRACTOR SHALL REVIEW THE SITE CONDITIONS PRIOR TO CONSTRUCTION AND MAKE THE ENGINEER AWARE OF ANY INCONSISTENCIES BETWEEN THE SITE CONDITIONS AND EXISTING CONDITIONS PLAN.
5. DIMENSIONS PROVIDED ON THE PLAN ARE TAKEN TO THE FACE OF CURBS, EDGE OF CONCRETE OR EDGE OF BUILDING, UNLESS OTHERWISE NOTED.
8. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PERMITS PRIOR TO INITIATING CONSTRUCTION. THE CONTRACTOR SHALL ADHERE TO PERMIT REQUIREMENTS AS WORK PROCEEDS.
9. SITE CONTROL SHALL BE BASED OFF THE REFERENCE POINTS PROVIDED. SEE THE ARCHITECTURAL PLANS FOR LAYOUT CONTROL OF BUILDING ADDITIONS.
10. THE CONTRACTOR SHALL SUBMIT A REQUEST FOR UTILITY LOCATION (CALL 811) AND HAVE THE UTILITIES MARKED BEFORE BEGINNING CONSTRUCTION. CONTRACTOR SHALL BE FAMILIAR WITH THE UTILITY LOCATIONS, PROTECT UTILITIES WHICH REMAIN IN SERVICE, AND REPAIR ANY DAMAGE TO UTILITY SYSTEMS PER THE UTILITY PROVIDER REQUIREMENTS.
11. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO PUBLIC ROADWAYS, CURBS AND SIDEWALKS IN ACCORDANCE WITH THE LOCAL REQUIREMENTS AT CONTRACTOR'S EXPENSE.
12. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY WORK UNACCEPTABLE TO THE OWNER'S REPRESENTATIVE OR GOVERNING AGENCIES AT CONTRACTOR'S EXPENSE.
13. IN EASEMENTS AND RIGHTS-OF-WAY, CONTRACTOR SHALL PROTECT AND RESTORE SAID PROPERTY TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING AT THE COMMENCEMENT OF CONSTRUCTION EXCEPT AS NOTED.
14. ON SITE ASPHALT PAVEMENT MATERIALS SHALL BE PER LOCAL AUTHORITY SPECIFICATIONS, STATE SPECIFICATIONS, AND GEOTECHNICAL REPORT RECOMMENDATIONS.
15. THE CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS AND PRECAUTIONS.
16. UNLESS OTHERWISE NOTED, SUBMIT SHOP DRAWINGS OF ALL FABRICATED MATERIALS FOR REVIEW. DESIGN DRAWINGS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS. THE ENGINEER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH LOCAL/STATE SPECIFICATIONS. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY SPECIFIC DEVIATIONS AND OBTAIN ENGINEER'S WRITTEN APPROVAL OF THE DEVIATION.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES AND/OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF MO, WHOSE SERVICES ARE ENGAGED AND PAID FOR BY THE CONTRACTOR.
18. ALL SPECIFICATIONS, DOCUMENTS, AND DETAILS REFERENCED SHALL BE THE LATEST REVISION AS APPLICABLE AT THE TIME OF PERMIT APPROVAL.
19. CONTRACTOR SHALL REPAIR ALL OFF-SITE CONSTRUCTION AREAS TO EQUAL AND/OR BETTER CONDITION THAN AT THE START OF CONSTRUCTION.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL REQUEST UTILITY LOCATIONS (811) AND VERIFY LOCATIONS OF ALL OTHER PRIVATE UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE AND REPAIR IF DAMAGED PER PROVIDER REQUIREMENTS AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL WORK AROUND EXISTING UTILITIES WITH CORRESPONDING PROVIDER.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO ACCOMPLISH THE PROPOSED WORK.
3. THE CONTRACTOR SHALL PROTECT PROPERTY BOUNDARY PINS AND SURVEY CONTROL POINTS FROM DAMAGE.
4. THE CONTRACTOR SHALL COMPLY WITH EROSION PREVENTION AND SEDIMENT CONTROL REQUIREMENTS AND INSTALL NECESSARY EPSC MEASURES AND CONSTRUCTION ENTRANCE/ EXIT PRIOR TO DISTURBING EXISTING VEGETATION. THE CONTRACTOR SHALL ALSO USE WATER SPRINKLING OR OTHER MEASURES TO CONTROL DUST AND OTHER AIRBORNE DEBRIS RESULTING FROM DEMOLITION.
5. TREE PROTECTION MEASURES SPECIFIED IN THESE PLANS SHALL BE INSTALLED PRIOR TO BEGINNING DEMOLITION OPERATIONS.
6. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FOR DEMOLITION AND TREE REMOVAL.
7. THE CONTRACTOR MAY BE REQUIRED TO PHASE THE DEMOLITION TO MAINTAIN EXISTING UTILITY SERVICES, PROPER DRAINAGE OR ACCESS TO THE SITE OR ADJOINING SITES. THE CONTRACTOR SHALL MINIMIZE THE DISRUPTION OF EXISTING ACTIVE UTILITIES AND TRAFFIC PATTERNS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE AND PROVIDE A DEMOLITION PHASING SCHEDULE WHERE REQUESTED.
8. UTILITY AND STORM SEWER LINES SHOULD NOT BE DEMOLISHED UNTIL NEW OR RELOCATED LINES HAVE BEEN INSTALLED AND ARE OPERATIONAL.
9. THE CONTRACTOR SHALL INCLUDE IN THEIR COST ANY ISOLATION VALVES OR TEMPORARY MEASURES REQUIRED TO ACCOMPLISH RELOCATIONS AND DEMOLITION OF UTILITIES.
10. PAVEMENTS, SIDEWALKS, CURBS AND OTHER HARD SURFACES SHALL BE EVENLY SAW CUT AT THE LIMITS OF REMOVAL TO PROVIDE A CLEAN EDGE. COORDINATE LIMITS OF REMOVAL WITH PROPOSED CONSTRUCTION INCLUDING GRADING, UTILITY INSTALLATION, PROPOSED LAYOUT, ETC.
11. EXISTING SITE FEATURES NOTED AS BEING ABANDONED MAY BE ABANDONED INPLACE IF THE ITEMS ARE LOCATED MORE THAN 24" BELOW FINAL SUBGRADES (TO TOP OF PIPE OR OTHER FEATURE) AND NOT LOCATED WITHIN PROPOSED BUILDING FOOTPRINTS. ENDS OF PIPES ABANDONED SHALL BE SEALED WITH CONCRETE.
12. ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S COST UNLESS NOTED TO BE PROVIDED TO THE OWNER.
13. CAVITIES LEFT BY DEMOLITION SHALL BE PROPERLY BACKFILLED AND COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
14. WHERE EXISTING IRRIGATION LINES ARE LOCATED WITHIN THE AREA OF CONSTRUCTION, THEY SHALL BE PROTECTED OR RE-ROUTED AND CONNECTED TO MAINTAIN OPERATION OF LANDSCAPE AREAS WHICH REMAIN DURING CONSTRUCTION. COORDINATE TEMPORARY MEASURES WITH DESIGN OF NEW SYSTEM AND REMOVE TEMPORARY MEASURES WHEN NO LONGER NEEDED.
15. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE MEANS AND METHODS FOR ALL ON-SITE AND OFF-SITE DEWATERING REQUIREMENTS AND PERMIT THROUGH THE NECESSARY LOCAL AND STATE AGENCIES AS NEEDED.
16. IF AN EXISTING WELL IS ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, CONTRACTOR TO INFORM ENGINEER AND ABANDON/REMOVE ANY EXISTING WELLS PER LOCAL/STATE STANDARDS AND SPECIFICATIONS.

ADA ACCESSIBILITY NOTES

1. CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY ARE TO BE CONSTRUCTED BASED ON LOCAL AUTHORITY'S STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS. WHERE THERE ARE NO LOCAL STANDARDS, THE CONTRACTOR SHALL CONSTRUCT CURB RAMPS ACCORDING TO THE CURRENT VERSION OF THE PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG), PUBLISHED BY THE UNITED STATES ACCESS BOARD.
2. PRIVATE CURB RAMPS ON THE SITE OUTSIDE OF THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS AND/OR FAIR HOUSING ACT (FHA), WHERE APPLICABLE.
3. BEFORE PLACING PAVEMENT OR SIDEWALKS, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA AND FHA) EXIST TO AND FROM ACCESSIBLE DOORS, ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND ACCESSIBLE ROUTES. MAXIMUM GRADES WITHIN ACCESSIBLE PARKING AND ACCESS AISLES SHALL BE 2% IN ANY DIRECTION. WITHIN ACCESSIBLE PATHS MAXIMUM SLOPES FOR SIDEWALKS SHALL BE LONGITUDINALLY MAXIMUM 5%, FOR RAMPS SHALL BE LONGITUDINALLY MAXIMUM 8.33% (1:12), AND CROSS SLOPES SHALL BE MAXIMUM 2%. TURNING MOVEMENTS SHALL BE 5'X5' MAXIMUM 2% IN ANY DIRECTION.
4. CURB RAMPS SHALL HAVE A LANDING AT THE TOP MATCHING THE WIDTH OF THE RAMP AND A MINIMUM DEPTH OF 48". RAMPS SHALL HAVE A 5' X 5' LANDING AT THE TOP AND BOTTOM OF THE RAMP. ALL CURB/ACCESSIBLE RAMP DESIGNS SHALL CONFORM TO ACCESSIBLE STANDARDS OR LOCAL BUILDING CODE STANDARDS, WHICHEVER IS MORE RESTRICTIVE.
5. CONTRACTOR TO FIELD VERIFY SLOPE MEASUREMENTS ON FINISHED GRADE, SUBGRADE, AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY CONFORMANCE TO ADA SLOPES. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CHANGE ORDERS WILL BE ACCEPTED FOR ADA SLOPE COMPLIANCE ISSUES.
6. WHERE CONSTRUCTION IS TAKING PLACE WITHIN AN EXISTING DEVELOPMENT OR FACILITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN AN ACCESSIBLE PATH PER ADA STANDARD SPECIFICATIONS THROUGHOUT THE CONSTRUCTION PROCESS AS NEEDED.

TREE PROTECTION NOTES

1. INSTALL TREE PROTECTION PRIOR TO DEMOLITION OR EARTH MOVING OPERATIONS ON SITE IN ACCORDANCE WITH THE DETAILS AND NOTES PROVIDED IN THESE PLANS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL STAKE THE LIMITS OF CONSTRUCTION TO ENSURE THE TREE PROTECTION MEASURES ARE INSTALLED IN THE PROPER LOCATIONS.
3. THE TREE PROTECTION MEASURES SHALL CONSIST OF 48" TALL CHAIN LINK FENCE WITH STEEL TEE POSTS OR ORANGE CONSTRUCTION BARRICADE FENCE. PRIOR TO CONSTRUCTION OPERATIONS, TREE PROTECTION FENCE INSTALLATION SHALL BE INSPECTED BY THE OWNER'S REPRESENTATIVE AND GOVERNING AUTHORITY IF REQUIRED.
4. ANY GRADING OR EXCAVATION WITHIN THE PROTECTED ROOT ZONE SHALL BE ACCOMPLISHED BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE DAMAGE.
5. ROOTS EXPOSED DURING CONSTRUCTION OPERATIONS SHALL BE PRUNED FLUSH WITH THE GROUND AND COVERED WITH BACKFILL AS SOON AS POSSIBLE. IF CONSTRUCTION OPERATIONS WILL DELAY THE PLACEMENT OF BACKFILL THE ROOTS SHALL BE TEMPORARILY COVERED WITH MULCH AND WATERED UNTIL BACKFILL OPERATIONS CAN BE ACCOMPLISHED.
6. DO NOT STORE EQUIPMENT OR MATERIALS WITHIN THE DRIP LINE OF TREES TO BE PRESERVED.
7. WHEN GRADING OR TRENCHING OPERATIONS ARE DIRECTED WITHIN THE DRIP LINE OF A TREE TO BE PRESERVED, THE ROOTS SHALL FIRST BE CUT USING A 'DITCH WITCH' OR SIMILAR EQUIPMENT TO PROVIDE A CLEAN CUT OF THE ROOTS AT THE LIMIT OF DISTURBANCE, PRIOR TO USE OF OTHER GRADING MACHINERY. ONCE THE ROOTS HAVE BEEN CUT AS NOTED ALL EQUIPMENT SHALL BE RESTRICTED FROM ENTERING THE AREA BETWEEN THE CUT LINE AND TREE TRUNK. TRENCHES SHALL BE BACKFILLED AND TAMPED TO MINIMIZE SETTLEMENT.
8. BARRICADES SHALL BE INSTALLED WITHIN THE LIMITS OF PROPOSED PAVEMENTS WHEN EXTENDING UNDER THE DRIP LINE OF TREES TO BE PRESERVED UNTIL OPERATIONS TO CONSTRUCT THE PAVED AREAS ARE INITIATED. THEN THE BARRICADES CAN BE RELOCATED TO PROVIDE THE MINIMUM AREA NECESSARY FOR CONSTRUCTION OF THE PROPOSED WORK AND SHALL REMAIN IN PLACE UNTIL ALL WORK IS COMPLETE.
9. PROVIDE WATERING OF SPECIMEN TREES DURING CONSTRUCTION DURING PERIODS OF DROUGHT EXCEEDING SEVEN DAYS. EVENLY DISTRIBUTE WATER OVER THE ENTIRE ROOT ZONE.
10. ROOT ZONE AREAS OF TREES THAT HAVE BEEN COMPACTED DUE TO CONSTRUCTION ACTIVITIES SHALL BE AERATED AT THE DIRECTION OF A QUALIFIED ARBORIST.
11. HOSE DOWN FOLIAGE OF SPECIMEN TREES SUBJECT TO HEAVY ACCUMULATION OF DUST FROM CONSTRUCTION ACTIVITIES.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE GRASS TO LESS THAN 12" IN HEIGHT WITHIN THE AREAS OF TREE PROTECTION DURING THE CONSTRUCTION PERIOD. DO NOT USE HERBICIDES TO CONTROL VEGETATION WITHIN THE TREE PROTECTION AREA.
13. REMOVAL OF TREE PROTECTION FENCING SHALL NOT OCCUR UNTIL APPROVED BY THE GOVERNING AUTHORITY WHERE REQUIRED, OR THE OWNER'S REPRESENTATIVE. ALL REMNANTS OF THE FENCING SHALL BE REMOVED AND RESTORATION OF THE AREAS SHALL BE COMPLETED.

EROSION CONTROL NOTES

1. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES SHALL BE INSTALLED PER LOCAL AND STATE REQUIREMENTS PRIOR TO ANY EARTH MOVING ACTIVITIES.
2. PROVIDE CONSTRUCTION ENTRANCE/EXIT AS DETAILED ON THE PLANS AND PER LOCAL REQUIREMENTS. MAINTAIN ENTRANCE/EXIT THROUGHOUT CONSTRUCTION AND MAINTAIN THE PUBLIC ROADWAY FREE OF TRACKED MUD AND DIRT.
3. EPSC MEASURES SHALL BE INSTALLED AND INSPECTED BY LOCAL OFFICIALS (IF REQUIRED) PRIOR TO BEGINNING EARTH MOVING OPERATIONS. EPSC MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.
4. LOCATION OF DIVERSION DITCHES, SILT FENCE, AND OTHER MEASURES MAY BE SLIGHTLY ADJUSTED IN THE FIELD TO AVOID TREES AND OTHER EXISTING FEATURES.
5. THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO THE REQUIREMENTS OUTLINED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) DEVELOPED FOR THE SITE, AS WELL AS LOCAL AND STATE REQUIREMENTS. THE CONTRACTOR SHALL ALSO PROVIDE THE CERTIFIED EROSION CONTROL INSPECTOR AND CONTINUAL MAINTENANCE OF THE EPSC MEASURES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, THEN ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
6. AS THE WORK PROGRESSES THE LOCATION AND TYPE OF MEASURES MAY REQUIRE ADJUSTMENTS. TEMPORARY MEASURES MAY BE REQUIRED IN CERTAIN AREAS THAT CAN BE REMOVED DURING THE WORK DAY AND RE-ESTABLISHED WHEN WORK CEASES FOR THE DAY OR PRIOR TO A DAYTIME RAIN EVENT.
7. SEDIMENT SHALL BE REMOVED FROM EROSION PREVENTION AND SEDIMENT CONTROL MEASURES WHEN THE DESIGN CAPACITIES HAVE BEEN REDUCED BY 50% OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE OR GOVERNING AGENCY. PROPERLY DISPOSE OF ACCUMULATED SEDIMENT.
8. THE CONTRACTOR SHALL PROVIDE A RAIN GAUGE AT THE SITE AND DOCUMENT RAINFALL EVENTS DURING THE CONSTRUCTION PERIOD.
9. THE CONTRACTOR SHALL MAINTAIN THE FOLLOWING RECORDS AT THE SITE: DATE WHEN MAJOR GRADING ACTIVITIES OCCUR, THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON PORTIONS OF THE SITE, THE DATES WHEN STABILIZATION MEASURES ARE INITIATED, INSPECTION RECORDS, AND RAINFALL EVENTS.
10. EXISTING SITE VEGETATION SHALL REMAIN IN PLACE AS LONG AS POSSIBLE AND SHALL NOT BE REMOVED MORE THAN 10 DAYS PRIOR TO THE DATE AT WHICH EARTH MOVING OPERATIONS ARE TO BEGIN UNLESS TEMPORARY COVER IS INSTALLED. DO NOT REMOVE VEGETATION OR TREES UNLESS NECESSARY FOR GRADING OR OTHER PROJECT PURPOSES.
11. THE CONSTRUCTION SHALL BE SEQUENCED TO MINIMIZE THE LENGTH OF TIME THE SITE SOILS ARE EXPOSED TO EROSION. PROVIDE TEMPORARY COVER AS NECESSARY.
12. EPSC MEASURES SHALL BE REMOVED ONCE PERMANENT VEGETATION IS ESTABLISHED AND WHEN DEEMED NO LONGER NEEDED BY THE OWNER'S REPRESENTATIVE OR GOVERNING AGENCY.

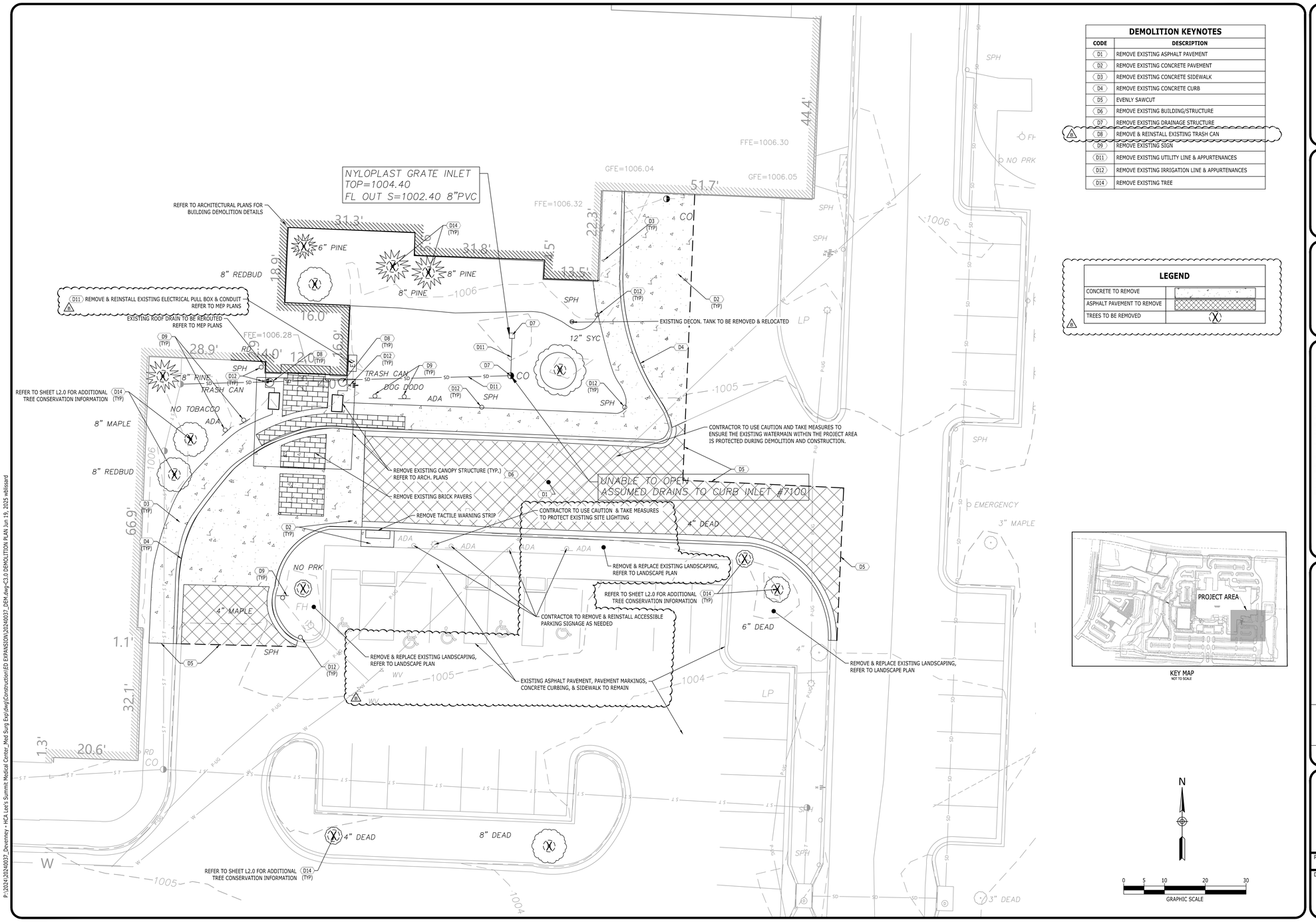
AS-BUILT REQUIREMENTS

1. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A LICENSED SURVEYOR IN THE STATE OF MO TO PROVIDE AS-BUILT SURVEY DATA FOR PUBLIC UTILITIES AND PUBLIC/PRIVATE STORMWATER MANAGEMENT INFRASTRUCTURE.
2. AS-BUILT SURVEYS SHOULD AT A MINIMUM PROVIDE THE FOLLOWING ITEMS:
   - 2.1. SPOT ELEVATIONS OF THE EXCAVATED BIORETENTION AND/OR PERMEABLE PAVER SUBGRADE PRIOR TO BACKFILLING WITH THE SPECIALTY SOIL AND GRAVEL LAYERS.
   - 2.2. SPOT ELEVATIONS OF SUBGRADE FOR UNDERGROUND DETENTION SYSTEMS.
   - 2.3. SPOT ELEVATIONS AND CONTOUR ELEVATIONS NOT TO EXCEED 1' MAX. INTERVAL FOR ALL PERMANENT STORMWATER QUALITY AREAS, DETENTION PONDS, AND ASSOCIATED EMBANKMENTS TO ENSURE PROPER SIZING OF THESE FEATURES.
   - 2.4. SIZE, MATERIAL, ELEVATION INFORMATION FOR ALL STORMWATER PIPES AND STRUCTURES WITHIN THE PUBLIC RIGHT OF WAY.
   - 2.5. SIZE, MATERIAL, ELEVATION INFORMATION FOR ALL PRIVATE STORMWATER QUALITY FEATURES, DETENTION STRUCTURES AND INFRASTRUCTURE DOWNSTREAM OF THESE FEATURES.
   - 2.6. DETAILED INFORMATION FOR ALL OUTLET CONTROL STRUCTURES, WITHIN DETENTION PONDS WATER, QUALITY FEATURES, OR UNDERGROUND DETENTION SYSTEMS, INCLUDING ELEVATION AND SIZE INFORMATION FOR ORIFICES, PERFORATED RISERS, WEIRS, TOP OF CASTING, AND INVERTS ASSOCIATED WITH THE STRUCTURE.
   - 2.7. ALL OTHER AS-BUILT INFORMATION REQUIRED BY THE JURISDICTIONAL AUTHORITY OR NOTED ELSEWHERE IN THE PLANS.
3. THE CONTRACTOR SHALL REVIEW LOCAL AUTHORITY'S AS-BUILT REQUIREMENTS AND/OR CONTACT ENGINEER TO CONFIRM AS-BUILT INFORMATION. PHOTOGRAPHIC EVIDENCE OF PROPER INSTALLATION OF STORMWATER MANAGEMENT AND WATER QUALITY INFRASTRUCTURE AND/OR VIDEO INSPECTIONS OF STORMWATER PIPES MAY BE REQUIRED. THE CONTRACTOR SHALL CAPTURE AND RETAIN PHOTOGRAPHIC DOCUMENTATION OF KEY INSTALLATION MILESTONES AS NEEDED. FAILURE TO PROVIDE NECESSARY PHOTOGRAPHIC DOCUMENTATION PRIOR TO BACKFILLING MAY CAUSE DELAYS AND MAY REQUIRE SITE INVESTIGATION THAT COULD INCLUDE RE-EXCAVATION OF COMPLETED INFRASTRUCTURE AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR TO RETAIN AND PROVIDE RECEIPTS FOR ANY FABRICATED STORMWATER MANAGEMENT INFRASTRUCTURE SUCH AS PROPRIETARY WATER QUALITY UNITS, UNDERGROUND DETENTION STRUCTURES, PERMEABLE PAVERS, OR SPECIALTY SOIL MEDIA (WITH APPLICABLE TESTING IF REQUIRED).

SITE GRADING NOTES

1. THE DISTURBED AREA FOR THIS PROJECT IS ESTIMATED TO BE ±0.29 ACRES.
2. THE SUBJECT PROPERTY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD ZONE ACCORDING TO COMMUNITY PANEL NO. 29095C0439G OF THE FEMA FLOOD INSURANCE MAPS FOR JACKSON COUNTY, MO, DATED 01/20/2017.
3. FOLLOW THE DIRECTIVES OF THE EROSION CONTROL AND TREE PROTECTION NOTES INCLUDED ELSEWHERE IN THESE DOCUMENTS.
4. THE GEOTECHNICAL REPORT, PREPARED BY OTHERS, IS INCORPORATED BY REFERENCE AND MADE A PART OF THE CONTRACT DOCUMENTS. IT IS INTENDED THAT THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT BE FOLLOWED. IN THE EVENT OF CONFLICTS BETWEEN THE CONSTRUCTION DRAWINGS AND THE GEOTECHNICAL REPORT, MAKE NO ASSUMPTIONS. THE ENGINEER SHALL BE IMMEDIATELY BE NOTIFIED FOR CLARIFICATION.
5. THE CONTRACTOR SHALL REQUEST UTILITY LOCATIONS (811) AND VERIFY LOCATIONS OF ALL OTHER PRIVATE UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE AND REPAIR IF DAMAGED PER PROVIDER REQUIREMENTS AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL WORK AROUND EXISTING UTILITIES WITH CORRESPONDING PROVIDER.
6. THE CONTRACTOR SHALL CONFIRM EXISTING GRADES AND DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION AND CONTACT THE ENGINEER WITH ANY DISCREPANCIES.
7. THE CONTRACTOR SHALL OBTAIN ALL APPROVALS AND PERMITS PRIOR TO INITIATING GRADING OPERATIONS.
8. POSITIVE DRAINAGE SHALL BE ESTABLISHED INITIALLY AND MAINTAINED THROUGHOUT CONSTRUCTION.
9. PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE THE FINISH GRADE ELEVATIONS. CONTRACTOR SHALL REQUEST ADDITIONAL INFORMATION FROM THE ENGINEER WHERE INTENT IN THE PROPOSED GRADE IS UNCLEAR.
10. STRIP TOPSOIL FROM PROPOSED GRADING AREAS AND STOCKPILE FOR REUSE. PROVIDE TEMPORARY SEEDING FOR STOCKPILE AREAS DURING CONSTRUCTION. REDISTRIBUTE TOPSOIL AT A MINIMUM DEPTH OF 6" IN LAWN AREAS AND 18" IN LANDSCAPE BEDS. PROVIDE ADDITIONAL TOPSOIL WHEN ONSITE QUANTITIES ARE INSUFFICIENT.
11. CONTRACTOR WILL PROCURE THE SERVICES OF A QUALIFIED SOILS TESTING LABORATORY/ ENGINEER TO OBSERVE WORK AND MAKE TESTS AS REQUIRED.
12. CONTRACTOR SHOULD COMPLETE GRADING ACTIVITIES WITHIN 10 CALENDAR DAYS OF ACHIEVING OPTIMUM SUBGRADE COMPACTION.
13. FILL AREAS SHALL BE PROOF ROLLED WITH RUBBER-TIRED EQUIPMENT WITH A MINIMUM WEIGHT OF FIFTEEN TONS PRIOR TO BEGINNING FILL OPERATIONS OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL EXCAVATE SOFT SPOTS, UNSATISFACTORY SOILS, AND AREAS OF EXCESSIVE PUMPING OR RUTTING, AS DETERMINED BY GEOTECHNICAL ENGINEER, AND REPLACE WITH COMPACTED BACKFILL OR FILL AS DIRECTED. COMPACTION OF BACKFILL MATERIALS SHALL BE TO 98% MAXIMUM DRY DENSITY AS PER ASTM D698 (STANDARD PROCTOR), UNLESS OTHERWISE RECOMMENDED BY THE GEOTECHNICAL REPORT.
14. THE CONTRACTOR SHALL, AT THEIR COST, PROVIDE OFFSITE MATERIALS MEETING THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER'S REPORT WHERE ONSITE SOIL QUANTITIES ARE NOT SUFFICIENT. ALL FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL REPRESENTATIVE PRIOR TO BEING HAULED TO THE SITE. MATERIAL SHALL BE PLACED AND COMPACTED IN LIFT DEPTHS AS NOTED IN THE SPECIFICATIONS AND INSPECTED BY THE GEOTECHNICAL REPRESENTATIVE. SUBGRADES SHALL BE PROOF ROLLED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND GEOTECHNICAL REPRESENTATIVE'S DIRECTIONS. UNSUITABLE MATERIALS SHALL BE REMOVED AND REPLACED AS DIRECTED.
15. CUT AREAS SHALL BE PROOF-ROLLED AFTER FINAL SUBGRADE IS ACHIEVED IN THE SAME MANNER AS FILLED AREAS. THE CONTRACTOR SHALL EXCAVATE SOFT SPOTS, UNSATISFACTORY SOILS, AND AREAS OF EXCESSIVE PUMPING OR RUTTING, AS DETERMINED BY GEOTECHNICAL ENGINEER, AND REPLACE WITH COMPACTED BACKFILL OR FILL AS DIRECTED. COMPACTION OF BACKFILL MATERIALS SHALL BE TO 98% MAXIMUM DRY DENSITY AS PER ASTM D698 (STANDARD PROCTOR), UNLESS OTHERWISE RECOMMENDED BY THE GEOTECHNICAL REPORT.
16. APPLICABLE SPECIFICATIONS FOR COMPACTED FILL: THE FOLLOWING CURRENT AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) STANDARDS ARE HEREBY MADE PART OF THIS SPECIFICATION:
   - 16.1. C136/136M STANDARD TEST METHOD FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES
   - 16.2. D421-58 DRY PREPARATION OF SOIL SAMPLES FOR GRAIN-SIZE ANALYSIS AND DETERMINATION OF SOIL CONSTANTS.
   - 16.3. D422-63 STANDARD METHOD OF PARTICLE SIZE ANALYSIS OF SOILS.
   - 16.4. D1150-54 METHOD OF TEST FOR AMOUNT OF MATERIAL IN SOILS FINER THAN NO. 200 SIEVE.
   - 16.5. D698 METHOD FOR LABORATORY COMPACTION CHARACTERISTICS OF SOIL USING STANDARD EFFORT
   - 16.6. D1557-78 STANDARD TEST METHODS FOR MOISTURE-DENSITY RELATIONS OF SOILS AND SOIL AGGREGATE MIXTURES USING 10LB. (4.54-KG) RAMMER AND 18-INCH (457 MM) DROP.
   - 16.7. D2487 STANDARD PRACTICE FOR CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES
   - 16.8. D4318 STANDARD TEST METHODS FOR LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS
   - 16.9. D6938 STANDARD TEST METHODS FOR IN-PLACE DENSITY AND WATER CONTENT OF SOIL AND SOIL-AGGREGATE BY NUCLEAR METHODS

   CONTRACTOR SHALL REVIEW THE SITE SPECIFIC GEOTECHNICAL REPORT PRIOR TO COMMENCING WITH GRADING OPERATIONS. WHERE CONFLICTS BETWEEN THE GRADING NOTES AND GEOTECHNICAL REPORT EXISTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CLARIFICATION.
17. THE CONTRACTOR SHALL REVIEW THE PROPOSED GRADING PLAN AND SPOT ELEVATIONS AND REQUEST INFORMATION FROM THE ENGINEER FOR SPOTS OR CONTOURS THAT DO NOT APPEAR TO CORRESPOND WITH OTHER SURROUNDING GRADING. PROPOSED GRADES REFLECT AN INTENT FOR THE SLOPES AND DIRECTION OF DRAINAGE. THE CONTRACTOR SHALL REQUEST DIRECTION FOR AREAS WHERE THE INTENT IS NOT CLEAR.
18. THE CONTRACTOR SHALL CONFIRM EXISTING GRADES GENERALLY REFLECT THE SURVEY DATA USED IN PREPARING THESE PLANS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING SITE WORK.
   - 18.1. WHERE BUILDINGS (EXISTING OR PROPOSED) OR OTHER SITE ELEMENTS CLOSELY ABUT THE RIGHT-OF-WAY OR ACCESSIBLE PATH, THE CONTRACTOR SHALL CONFIRM STREET, CURB, AND SIDEWALK GRADES IN THESE AREAS ARE CONSISTENT WITH THE EXPECTED ELEVATIONS & HORIZONTAL LOCATIONS WITHIN THE PLANS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
   - 18.2. WHERE PROPOSED NEW CURB AND SIDEWALK ARE ALONG EXISTING RIGHT-OF-WAY, THE CONTRACTOR SHALL CONFIRM CENTERLINE AND EDGE OF PAVEMENT ELEVATIONS, AND PLACE NEW CURB SUCH THAT PROPER CROSS SLOPES ARE ACHIEVED PER THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE PROPOSED DESIGN ELEVATIONS AND FIELD CONDITIONS.
19. MAXIMUM CUT AND FILL SLOPES SHALL BE 3 HORIZONTAL TO 1 VERTICAL UNLESS DIRECTLY NOTED OTHERWISE ON THE PLAN. FILL SLOPES SHALL BE CONSTRUCTED BY FILLING BEYOND THE DESIRED GRADES TO OBTAIN COMPACTION AND THEN CUT BACK TO THE DESIRED GRADES. WHERE GRADES ARE 3:1 AND STEEPER CONTRACTOR TO PROVIDE SLOPE STABILIZATION UTILIZING NORTH AMERICAN GREEN, SC-250 OR APPROVED EQUAL. IN AREAS THAT ARE NOTED TO REQUIRE STABILIZATION WHERE SLOPES ARE LESS THAN 3:1 CONTRACTOR TO USE NORTH AMERICAN GREEN SC-150 OR APPROVED EQUAL.
20. MINIMUM GRADES SHALL BE 1% IN PAVEMENT AREAS, AND A MINIMUM OF 2% IN LAWN AREAS UNLESS DIRECTLY SPECIFIED IN THE PLANS.
21. THE CONTRACTOR SHALL TAKE CARE TO PROPERLY COMPACT FILL WITHIN UTILITY TRENCHES AND AROUND OTHER PROJECT FEATURES TO AVOID SETTLEMENT. SETTLEMENT OCCURRING WITHIN 12 MONTHS OF COMPLETION SHALL BE REPAIRED AT



DEMOLITION KEYNOTES

CODE	DESCRIPTION
D1	REMOVE EXISTING ASPHALT PAVEMENT
D2	REMOVE EXISTING CONCRETE PAVEMENT
D3	REMOVE EXISTING CONCRETE SIDEWALK
D4	REMOVE EXISTING CONCRETE CURB
D5	EVENLY SAWCUT
D6	REMOVE EXISTING BUILDING/STRUCTURE
D7	REMOVE EXISTING DRAINAGE STRUCTURE
D8	REMOVE & REINSTALL EXISTING TRASH CAN
D9	REMOVE EXISTING SIGN
D11	REMOVE EXISTING UTILITY LINE & APPURTENANCES
D12	REMOVE EXISTING IRRIGATION LINE & APPURTENANCES
D14	REMOVE EXISTING TREE

LEGEND

CONCRETE TO REMOVE	
ASPHALT PAVEMENT TO REMOVE	
TREES TO BE REMOVED	X

KEY MAP
NOT TO SCALE

N

0 5 10 20 30
GRAPHIC SCALE

P:\20241\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\ED EXPANSION\20240037_DEM.dwg-C3.0 DEMOLITION PLAN Jun 19, 2025 wbissard

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

Catalyst Design Group
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(615) 622-7200 | WWW.CATALYST-DG.COM

JACK S. PARKER
NUMBER
PE-2010040852
06/05/2025
STATE OF MISSOURI
NOT VALID UNLESS SIGNED

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FINAL DEVELOPMENT PLAN

HCA LEE'S SUMMIT MEDICAL CENTER

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

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

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

NO.	DESCRIPTION	DATE
B	DESIGN COORDINATION	06/05/2025

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

DRAWING TITLE

DEMOLITION PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
C3.0

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

DEMOLITION PLAN

C3.0

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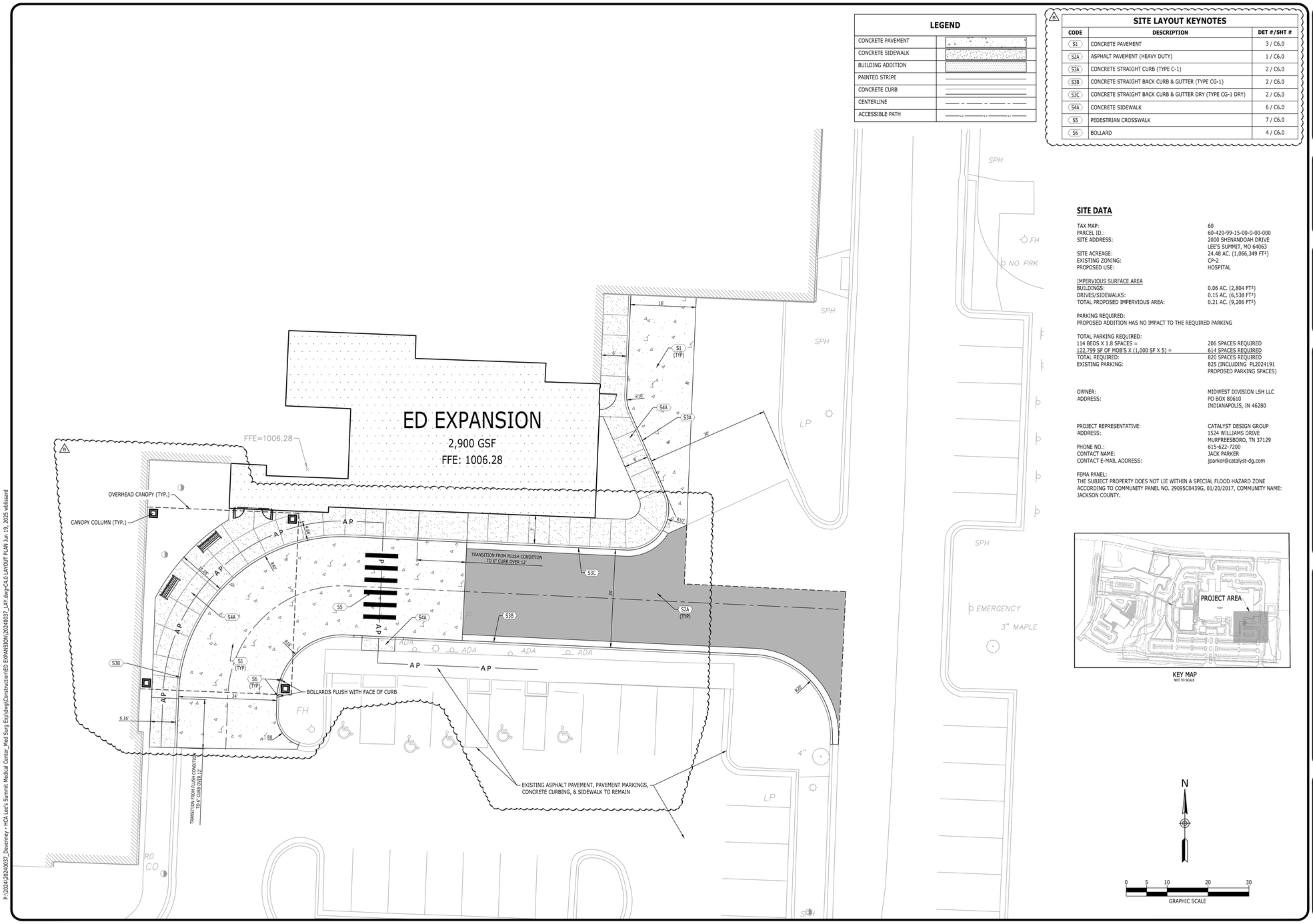

LEGEND

CONCRETE PAVEMENT	
CONCRETE SIDEWALK	
BUILDING ADDITION	
PAINTED STRIPE	
CONCRETE CURB	
CENTERLINE	
ACCESSIBLE PATH	

SITE LAYOUT KEYNOTES

CODE	DESCRIPTION	DET #/SHT #
S1	CONCRETE PAVEMENT	3 / C6.0
S2A	ASPHALT PAVEMENT (HEAVY DUTY)	1 / C6.0
S3A	CONCRETE STRAIGHT CURB (TYPE C-1)	2 / C6.0
S3B	CONCRETE STRAIGHT BACK CURB & GUTTER (TYPE CG-1)	2 / C6.0
S3C	CONCRETE STRAIGHT BACK CURB & GUTTER DRY (TYPE CG-1 DRY)	2 / C6.0
S4A	CONCRETE SIDEWALK	6 / C6.0
S5	PEDESTRIAN CROSSWALK	7 / C6.0
S6	BOLLARD	4 / C6.0

SITE DATA

TAX MAP:	60
PARCEL ID.:	60-420-99-15-00-0-00-000
SITE ADDRESS:	2000 SHENANDOAH DRIVE LEE'S SUMMIT, MO 64063
SITE ACREAGE:	24.48 AC. (1,066,349 FT²)
EXISTING ZONING:	CP-2
PROPOSED USE:	HOSPITAL
IMPERVIOUS SURFACE AREA	
BUILDINGS:	0.06 AC. (2,804 FT²)
DRIVES/SIDEWALKS:	0.15 AC. (6,538 FT²)
TOTAL PROPOSED IMPERVIOUS AREA:	0.21 AC. (9,206 FT²)

PARKING REQUIRED:
PROPOSED ADDITION HAS NO IMPACT TO THE REQUIRED PARKING

TOTAL PARKING REQUIRED:	
114 BEDS X 1.8 SPACES =	206 SPACES REQUIRED
122,799 SF OF MOB'S X (1,000 SF X 5) =	614 SPACES REQUIRED
TOTAL REQUIRED:	820 SPACES REQUIRED
EXISTING PARKING:	825 (INCLUDING PL2024191 PROPOSED PARKING SPACES)

OWNER:	MIDWEST DIVISION LSH LLC
ADDRESS:	PO BOX 80610 INDIANAPOLIS, IN 46280
PROJECT REPRESENTATIVE:	CATALYST DESIGN GROUP
ADDRESS:	1524 WILLIAMS DRIVE MURFREESBORO, TN 37129
PHONE NO.:	615-622-7200
CONTACT NAME:	JACK PARKER
CONTACT E-MAIL ADDRESS:	jparker@catalyst-dg.com

FEMA PANEL:
THE SUBJECT PROPERTY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD ZONE ACCORDING TO COMMUNITY PANEL NO. 29095C0439G, 01/20/2017, COMMUNITY NAME: JACKSON COUNTY.

KEY MAP
NOT TO SCALE

N

0 5 10 20 30
GRAPHIC SCALE

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JACKSON COUNTY

NO.	DATE	DESCRIPTION
1	06/05/2025	DESIGN COORDINATION

DRAWING TITLE
LAYOUT PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
C4.0

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STATE OF MISSOURI
JACK S. PARKER
NUMBER PE-2010040852
REGISTERED PROFESSIONAL ENGINEER
06/05/2025

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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:
AGENCY

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

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

LAYOUT PLAN

C4.0

P:\20241\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\ED EXPANSION\20240037_LAY.dwg>C4.0 LAYOUT PLAN Jun 19, 2025 wblissard
6/10/2024 9:05:24 PM Autodesk Docs://6406.24.0001 - HCA - LSMC MedSurg Expansion_rvt23/6406.24.0001 HCA - LSMC Med Surge Expansion.rvt

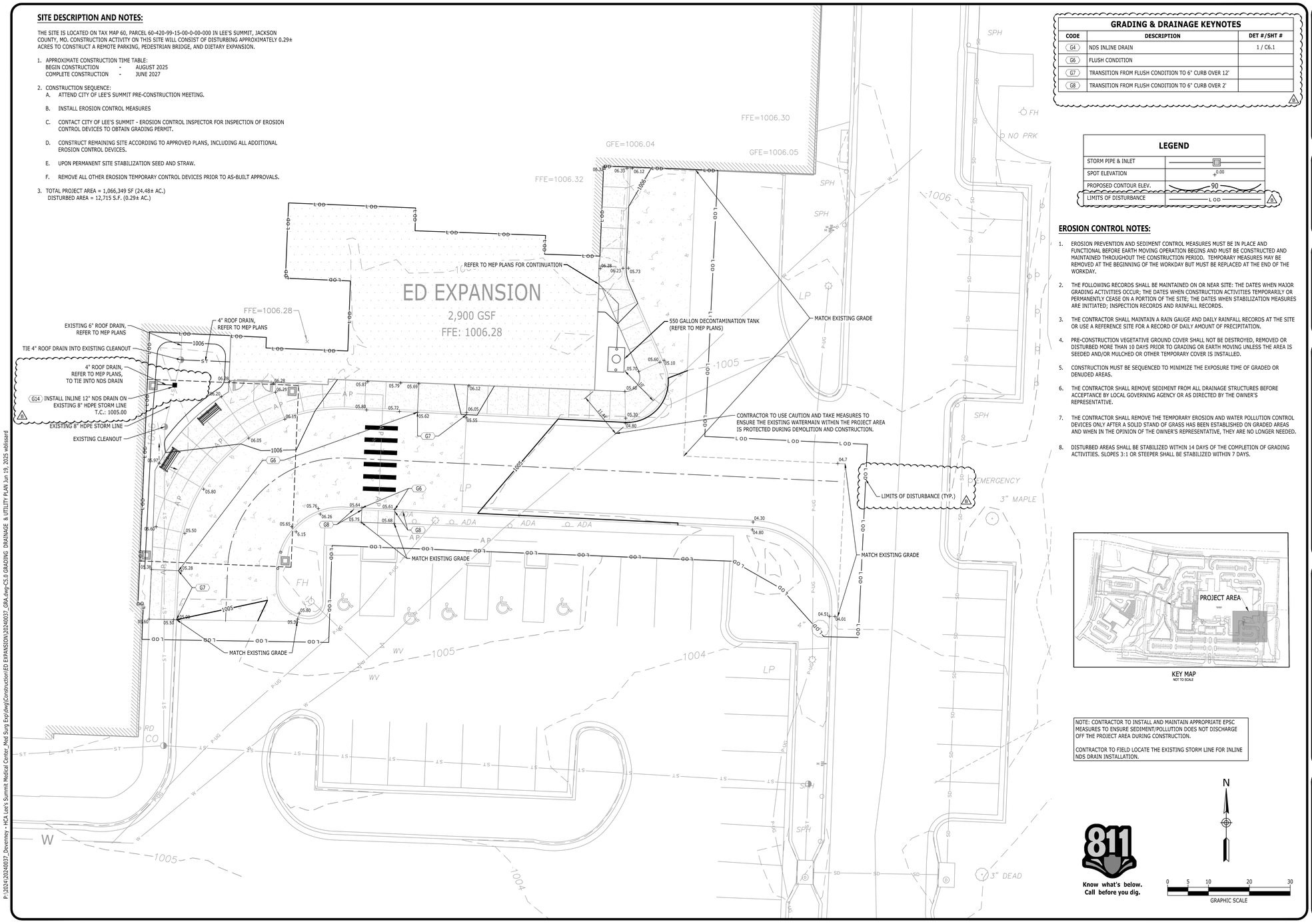
SITE DESCRIPTION AND NOTES:

THE SITE IS LOCATED ON TAX MAP 60, PARCEL 60-420-99-15-00-0-00-000 IN LEE'S SUMMIT, JACKSON COUNTY, MO. CONSTRUCTION ACTIVITY ON THIS SITE WILL CONSIST OF DISTURBING APPROXIMATELY 0.29± ACRES TO CONSTRUCT A REMOTE PARKING, PEDESTRIAN BRIDGE, AND DIETARY EXPANSION.

1. APPROXIMATE CONSTRUCTION TIME TABLE:
   BEGIN CONSTRUCTION - AUGUST 2025
   COMPLETE CONSTRUCTION - JUNE 2027

2. CONSTRUCTION SEQUENCE:
   A. ATTEND CITY OF LEE'S SUMMIT PRE-CONSTRUCTION MEETING.
   B. INSTALL EROSION CONTROL MEASURES
   C. CONTACT CITY OF LEE'S SUMMIT - EROSION CONTROL INSPECTOR FOR INSPECTION OF EROSION CONTROL DEVICES TO OBTAIN GRADING PERMIT.
   D. CONSTRUCT REMAINING SITE ACCORDING TO APPROVED PLANS, INCLUDING ALL ADDITIONAL EROSION CONTROL DEVICES.
   E. UPON PERMANENT SITE STABILIZATION SEED AND STRAW.
   F. REMOVE ALL OTHER EROSION TEMPORARY CONTROL DEVICES PRIOR TO AS-BUILT APPROVALS.

3. TOTAL PROJECT AREA = 1,066,349 SF (24.48± AC.)
   DISTURBED AREA = 12,715 S.F. (0.29± AC.)



GRADING & DRAINAGE KEYNOTES

CODE	DESCRIPTION	DET #/SHT #
G4	NDS INLINE DRAIN	1 / C6.1
G6	FLUSH CONDITION	
G7	TRANSITION FROM FLUSH CONDITION TO 6" CURB OVER 12'	
G8	TRANSITION FROM FLUSH CONDITION TO 6" CURB OVER 2'	

LEGEND

STORM PIPE & INLET	
SPOT ELEVATION	+0.00
PROPOSED CONTOUR ELEV.	90
LIMITS OF DISTURBANCE	LOD

EROSION CONTROL NOTES:

1. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATION BEGINS AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY BUT MUST BE REPLACED AT THE END OF THE WORKDAY.
2. THE FOLLOWING RECORDS SHALL BE MAINTAINED ON OR NEAR SITE: THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; THE DATES WHEN STABILIZATION MEASURES ARE INITIATED; INSPECTION RECORDS AND RAINFALL RECORDS.
3. THE CONTRACTOR SHALL MAINTAIN A RAIN GAUGE AND DAILY RAINFALL RECORDS AT THE SITE OR USE A REFERENCE SITE FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION.
4. PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 10 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA IS SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED.
5. CONSTRUCTION MUST BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED AREAS.
6. THE CONTRACTOR SHALL REMOVE SEDIMENT FROM ALL DRAINAGE STRUCTURES BEFORE ACCEPTANCE BY LOCAL GOVERNING AGENCY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
7. THE CONTRACTOR SHALL REMOVE THE TEMPORARY EROSION AND WATER POLLUTION CONTROL DEVICES ONLY AFTER A SOLID STAND OF GRASS HAS BEEN ESTABLISHED ON GRADED AREAS AND WHEN IN THE OPINION OF THE OWNER'S REPRESENTATIVE, THEY ARE NO LONGER NEEDED.
8. DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF THE COMPLETION OF GRADING ACTIVITIES. SLOPES 3:1 OR STEEPER SHALL BE STABILIZED WITHIN 7 DAYS.

KEY MAP
NOT TO SCALE

NOTE: CONTRACTOR TO INSTALL AND MAINTAIN APPROPRIATE EPSC MEASURES TO ENSURE SEDIMENT/POLLUTION DOES NOT DISCHARGE OFF THE PROJECT AREA DURING CONSTRUCTION.

CONTRACTOR TO FIELD LOCATE THE EXISTING STORM LINE FOR INLINE NDS DRAIN INSTALLATION.

811
Know what's below.
Call before you dig.

N

0 5 10 20 30
GRAPHIC SCALE

P:\2024\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\ED EXPANSION\20240037_GRA.dwg-C5.0 GRADING DRAINAGE & UTILITY PLAN Jun 19, 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
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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

ED EXPANSION

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

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

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

NO.	DATE	DESCRIPTION
B	06/05/2025	DESIGN COORDINATION

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

DRAWING TITLE
GRADING, DRAINAGE, & UTILITY PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
C5.0

DATE:	2025/04/10
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JOB NUMBER:	6406.24

GRADING, DRAINAGE, & UTILITY PLAN

C5.0

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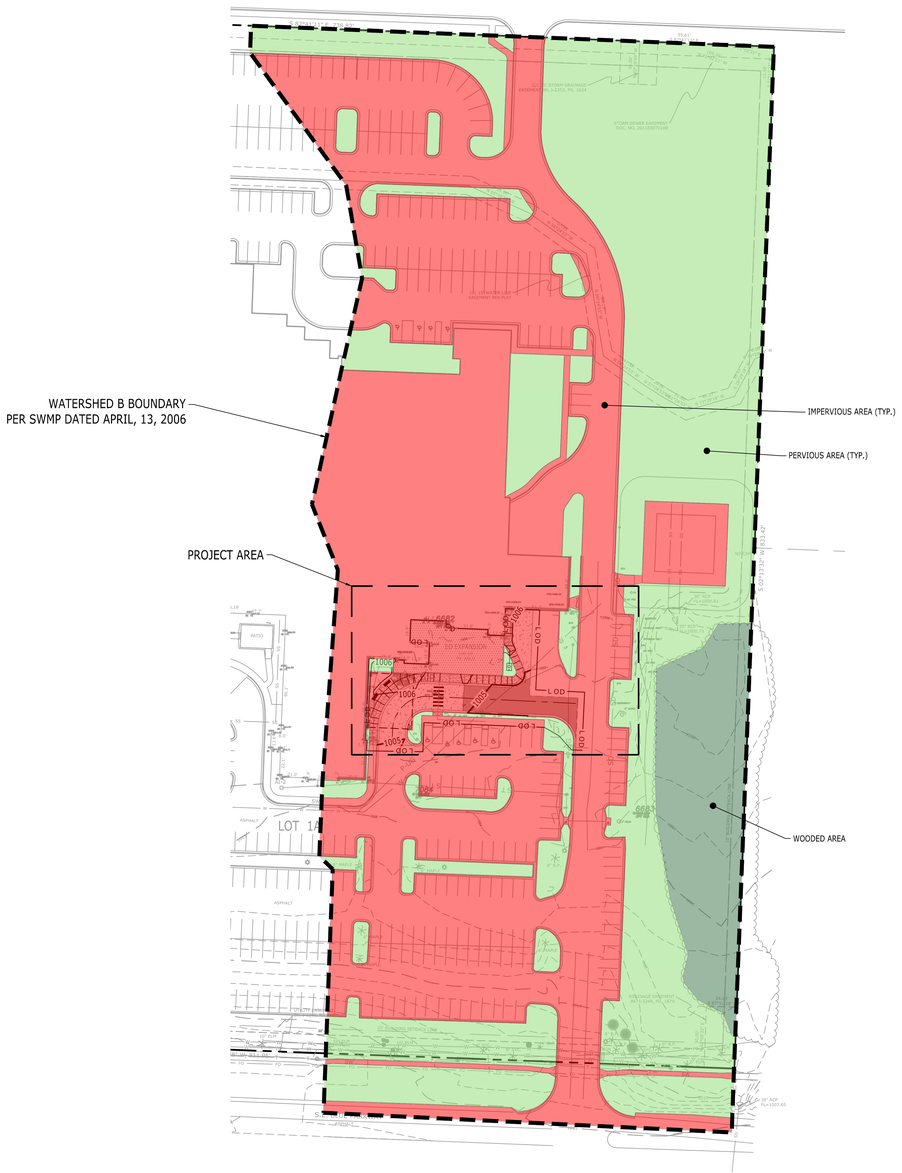

LEGEND

PROPOSED PERVIOUS AREA	
PROPOSED WOODED PERVIOUS	
PROPOSED IMPERVIOUS AREA	

WATERSHED B AREA

LAND USE	AREA	CURVE NUMBER
PROPOSED PERVIOUS AREA	2.74 AC (119,296 SQ FT)	80
PROPOSED WOODED PERVIOUS	0.44 AC (18,988 SQ FT)	77
PROPOSED IMPERVIOUS AREA	4.12 AC (179,704 SQ FT)	98
TOTAL	7.30 AC (317,988 SQ FT)	90

ALLOWABLE / DESIGNED WATERSHED CN = 93
PER APPROVED STORM WATER MANAGEMENT PLAN BY
GEORGE BUTLER ASSOCIATES, INC. DATED APRIL 13, 2006.

811
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N

0 25 50 100 150
GRAPHIC SCALE

P:\2024\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\ED EXPANSION\20240037_GRA.dwg-C5.1 DRAINAGE AREA MAP Apr 10, 2025 wblissard

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CONSTRUCTION DOCUMENTS
HCA LEE'S SUMMIT MEDICAL CENTER
2000 SE SHENANDOAH DRIVE
LEE'S SUMMIT, MO, 64063
JACKSON COUNTY

NO.	DESCRIPTION	DATE

DRAWING TITLE
DRAINAGE AREA MAP

PROJECT NUMBER
20240037

DRAWING NUMBER
C5.1

Devenney Group Ltd., Architects

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Consultant:

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STATE OF MISSOURI
JACK J. PARKER
NUMBER
PE-2010040852
04/18/2025
PROFESSIONAL ENGINEER

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ED EXPANSION

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2100 SE BLUE PKWY
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AUTHORITY HAVING JURISDICTION:
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MISSOURI DHSS

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

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DRAINAGE AREA MAP

C5.1

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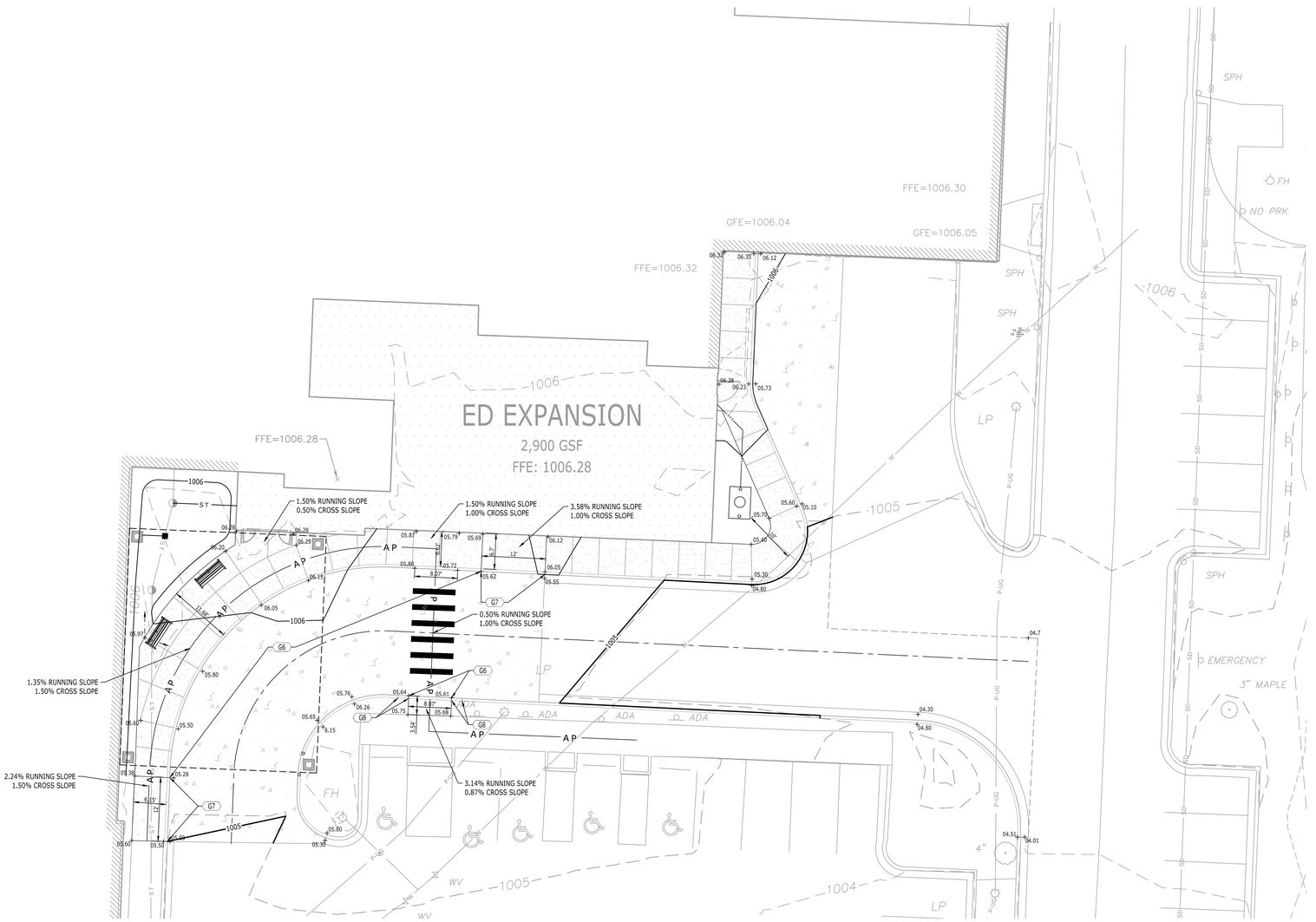
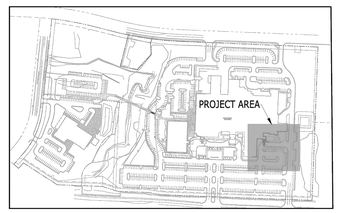
GRADING & DRAINAGE KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
G4	NYOPLAST DRAIN INLET	3 / C6.1
G6	FLUSH CONDITION	
G7	TRANSITION FROM FLUSH CONDITION TO 6" CURB OVER 12'	
G8	TRANSITION FROM FLUSH CONDITION TO 6" CURB OVER 2'	

LEGEND	
STORM PIPE & INLET	
SPOT ELEVATION	+0.00
PROPOSED CONTOUR ELEV.	90





KEY MAP
NOT TO SCALE

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0 5 10 20 30
GRAPHIC SCALE

P:\2024\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\ED EXPANSION\20240037_GRA.dwg>C5.2 SITE ACCESSIBILITY PLAN Jun 19, 2025 mbissard

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FINAL DEVELOPMENT PLAN
HCA LEE'S SUMMIT MEDICAL CENTER
2000 SE SHENANDOAH DRIVE
LEE'S SUMMIT, MO, 64063
JACKSON COUNTY

NO.	DATE	DESCRIPTION
B	06/05/2025	DESIGN COORDINATION

DRAWING TITLE
SITE ACCESSIBILITY PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
C5.2

Devenney Group Ltd., Architects

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STATE OF MISSOURI
JACK J. PARKER
NUMBER
PE-2010040852
REGISTERED ENGINEER
06/05/2025

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SITE ACCESSIBILITY PLAN

C5.2

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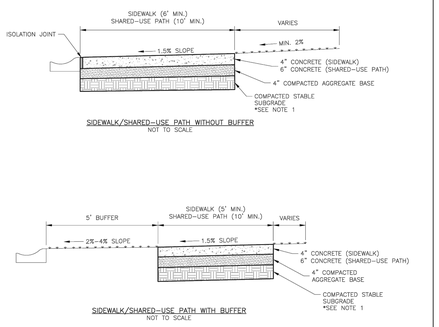


GENERAL NOTES:

1. SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
2. 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
3. KCMMB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS/SHARED-USE PATHS.
4. ALL SIDEWALK/SHARED-USE PATHS SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
5. AN ISOLATION JOINT SHALL BE PLACED AT A MAXIMUM OF 100 FT. CONSTRUCTION JOINTS SHALL BE PLACED THE SAME WIDTH OF SIDEWALK/SHARED-USE PATHS, BUT NO GREATER THAN 10 FT.
6. AN ISOLATION JOINT SHALL BE PLACED WHERE THE SIDEWALK/SHARED-USE PATHS MEETS A RESIDENTIAL DRIVEWAY.
7. SHARED-USE PATHS WIDTH SHALL BE 10 FT. WIDE.
8. SIDEWALK/SHARED-USE PATHS FINISHING SHALL BE FULL BROOM FINISH OR AS DIRECTED BY CITY INSPECTOR.
9. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

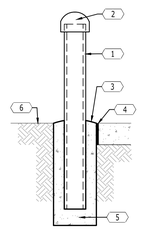
LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

SIDEWALK/SHARED-USE PATH DETAIL

Date: 08/2023
Drawn By: MJF
Checked By: DL

GEN-2

6



KEYNOTES	
CODE	DESCRIPTION
2	PREFABRICATED CAP
1	6"ø X 6'-8" STEEL PIPE BOLLARD FILLED WITH CONCRETE. PRIME WITH SUITABLE PRIMER AND PAINT IN A COLOR TO BE SELECTED BY THE ARCHITECT.
3	1" CROWN
4	1/2" EXPANSION JOINT MATERIAL, AASHTO M-33, WHERE PLACED IN A RIGID PAVEMENT AREA.
5	3500 PSI CONCRETE
6	F.G.

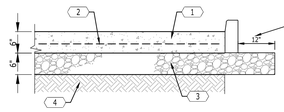
NOTE: THE PRIMER AND FIRST COAT OF PAINT SHALL BE APPLIED BEFORE INSTALLATION. A SECOND COAT OF PAINT SHALL BE APPLIED AFTER INSTALLATION.

4 **STEEL BOLLARD WITH CAP**
NOT TO SCALE

5 **RESERVED**
NOT TO SCALE

NOTE:
1. ON ALL EXISTING PAVEMENT REPAIR OR REPLACEMENT, USE THE PAVEMENT SECTIONS SHOWN OR MATCH THE EXISTING SECTION, WHICHEVER IS GREATER.
2. PAVEMENT DEPTHS TO MATCH AND COMPLY WITH THE CITY OF LEE'S SUMMIT UNIFIED DEVELOPMENT CODE STANDARDS.
3. ALL CONCRETE PAVEMENT MIX & COMPONENTS TO ADHERE TO KCMMB STANDARDS

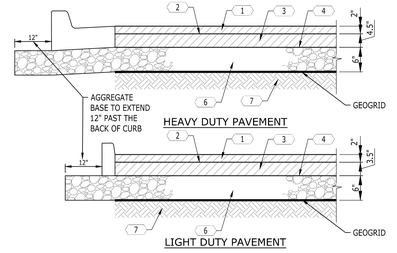
KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE PAVEMENT; 4000 PSI
2	6"x6", W2.9xW2.9 W.W.F.; ASTM GRADE 60 STEEL
3	COMPACTED MINERAL AGGREGATE BASE
4	COMPACTED SUBGRADE



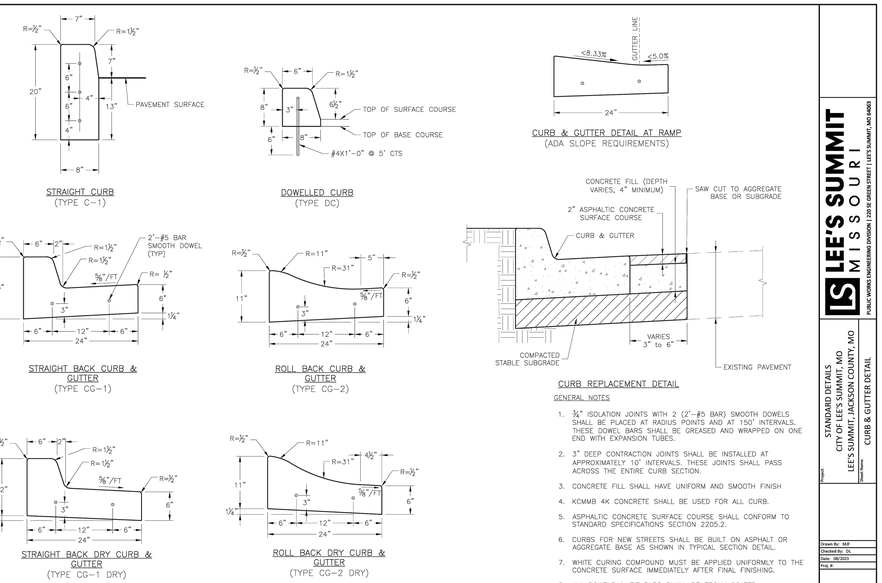
3 **CONCRETE PAVEMENT**
NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	ASPHALTIC SURFACE COURSE
2	TACK COAT AT 0.10 GAL./S.Y.
3	ASPHALTIC BASE COURSE
4	PRIME COAT AT 0.30 GAL./S.Y.
5	ASPHALTIC SURFACE COURSE
6	COMPACTED MINERAL AGGREGATE BASE
7	COMPACTED SUBGRADE

NOTE:
1. ON ALL EXISTING PAVEMENT REPAIR OR REPLACEMENT, USE THE PAVEMENT SECTIONS SHOWN OR MATCH THE EXISTING SECTION, WHICHEVER IS GREATER.
2. PAVEMENT DEPTHS TO MATCH AND COMPLY WITH THE CITY OF LEE'S SUMMIT UNIFIED DEVELOPMENT CODE STANDARDS & GEOTECHNICAL REPORT RECOMMENDATIONS.
3. ALL ASPHALTIC CONCRETE MIX & COMPONENTS TO ADHERE TO KCMMB STANDARDS



1 **ASPHALT PAVEMENT**
NOT TO SCALE



GENERAL NOTES

1. ¾" ISOLATION JOINTS WITH 2 (2'-#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
2. 3" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
3. CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH
4. KCMMB 4K CONCRETE SHALL BE USED FOR ALL CURB.
5. ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.
6. CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS SHOWN IN TYPICAL SECTION DETAIL.
7. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.
8. ALL DOWELS & TIE BARS SHALL BE EPOXY COATED.

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

CURB & GUTTER DETAIL

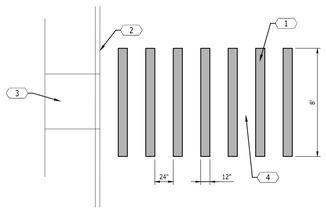
Drawn By: MJF
Checked By: DL
Date: 08/2023
Proj. #:

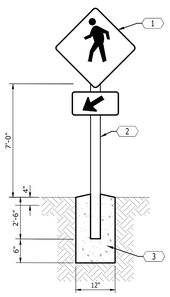
GEN-4

2

KEYNOTES	
CODE	DESCRIPTION
1	PEDESTRIAN CROSSWALK SIGN (30" X 30")
2	2" SQUARE GALVANIZED STEEL TUBE. PROVIDE WELDED CAP AT TOP AND GRIND WELDS SMOOTH.
3	CONCRETE FOOTING

NOTE:
SIGN SHALL BE LOCATED 3' FROM THE EDGE OF THE PAVEMENT UNLESS SUCH PLACEMENT WOULD OBSTRUCT THE SIDEWALK.





KEYNOTES	
CODE	DESCRIPTION
1	PAINTED CROSSWALK; MARKINGS SHALL BE SOLID WHITE PAINTED ON ASPHALT; PAINT 12" WIDE STRIPES AS INDICATED WITH PORTER "TRAFFIC WHITE" PAINT OR APPROVED EQUAL; CROSSWALK SHALL BE IN COMPLIANCE WITH ADAAG 403.3.
2	FACE OF CURB
3	REFER TO PLANS FOR CROSS WALK LANDING & TRANSITION DETAILS
4	MAX. 2% CROSS SLOPE; MAX. 5% RUNNING SLOPE (TYP.)

7 **PEDESTRIAN CROSSWALK**
NOT TO SCALE

P:\20242\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\ED EXPANSION\20240037_DET.dwg - C6.0 SITE DETAILS Jun 30, 2025 wallisard

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STATE OF MISSOURI
JACK S. PARKER
NUMBER
PE-2010040852
RENEWAL 12/31/2025

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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:
AGENCY

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

NO.	DATE	DESCRIPTION
1	06/05/2025	DESIGN COORDINATION

DRAWING TITLE
SITE DETAILS

PROJECT NUMBER
20240037

DRAWING NUMBER
C6.0

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

SITE DETAILS

C6.0

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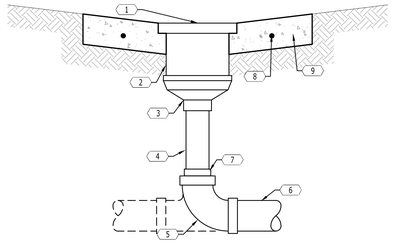
KEYNOTES	
CODE	DESCRIPTION
1	NDS 1211 GRATE
2	NDS 1216 RISER BOX
3	NDS 1230 HUB ADAPTOR
4	6" PVC, LENGTH AS REQ'D
5	8" PVC ELL OR TEE
6	8" PVC STORM PIPE
7	8" X 6" PVC REDUCER. MAY BE OMITTED IF REDUCING TEE IS USED.
8	No. 4 BAR, CONT.
9	4" THICK CONCRETE COLLAR



1 **12" NDS DRAIN INLET**
NOT TO SCALE

2 **RESERVED**
NOT TO SCALE

3 **RESERVED**
NOT TO SCALE

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816-282-5000

FINAL DEVELOPMENT PLAN
HCA LEE'S SUMMIT MEDICAL CENTER
2000 SE SHENANDOAH DRIVE
LEE'S SUMMIT, MO 64063
JACKSON COUNTY

NO.	DATE	DESCRIPTION
1	06/05/2025	DESIGN COORDINATION

DRAWING TITLE
SITE DETAILS

PROJECT NUMBER
20240037

DRAWING NUMBER
C6.1

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STATE OF MISSOURI
JACK S. PARKER
NUMBER
PE-2010040852
REGISTERED ENGINEER
06/05/2025

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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:
AGENCY

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

DATE:	2025/04/10
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JOB NUMBER:	6406.24

SITE DETAILS

C6.1

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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"

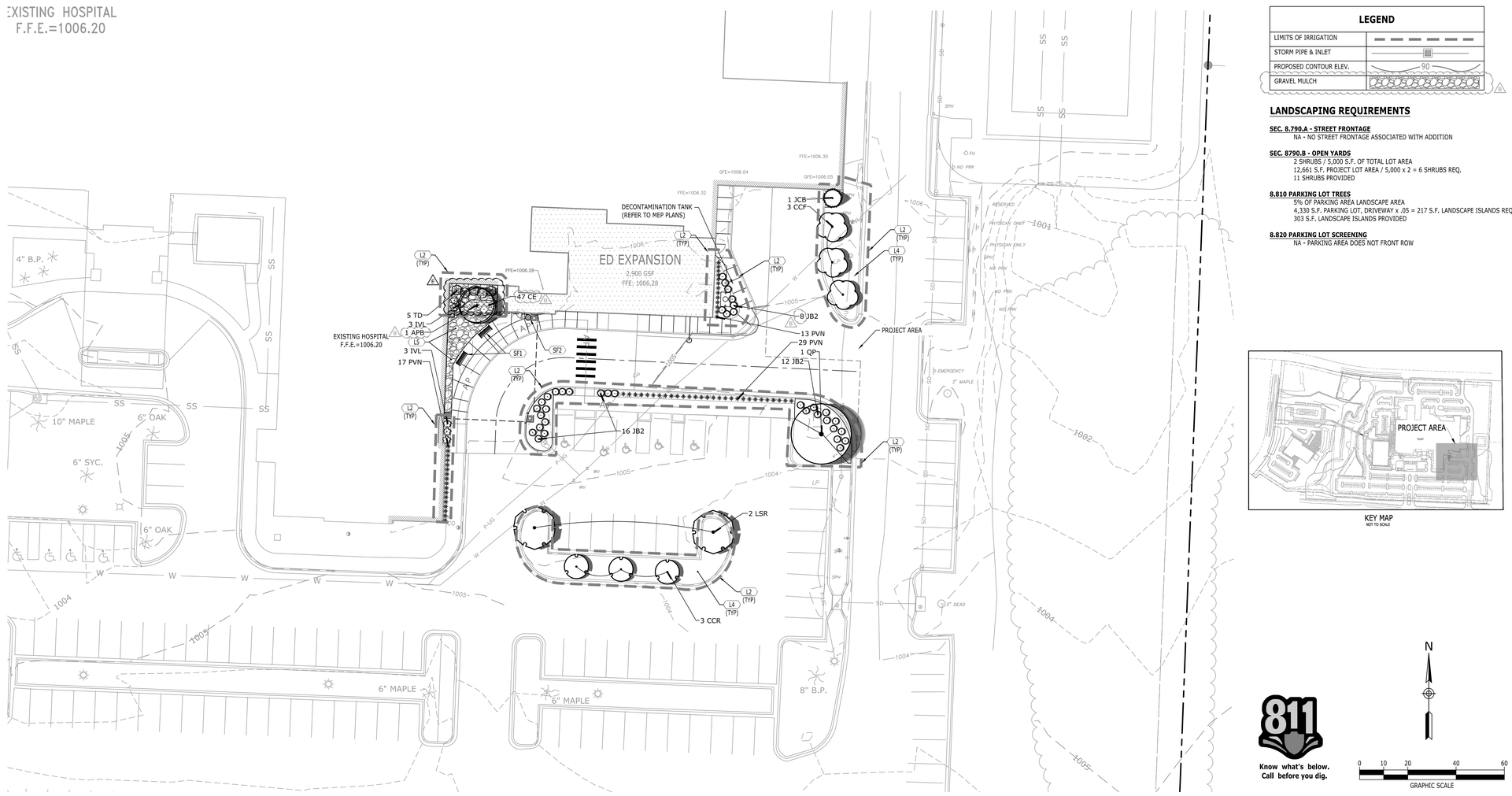
CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	SPACING
GROUND COVERS / PERENNIALS						
CE	47	Carex oshimensis `Everillo` / Everillo Japanese Sedge	#1		12"	16" o.c.

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	⚠5

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

811
Know what's below.
Call before you dig.

N

0 10 20 40 60
GRAPHIC SCALE

P:\2024\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

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

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MEDICAL CENTER
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LEE'S SUMMIT, MO 64063
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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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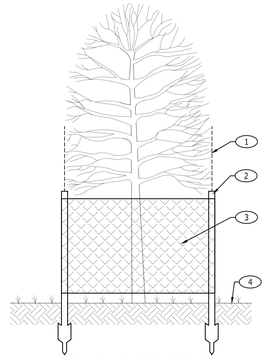
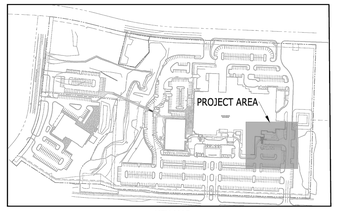
KEYNOTES	
CODE	DESCRIPTION
1	DRIP LINE OF TREE(S) (TYP)
2	METAL FENCE POST (TYP)
3	4' HIGH CHAIN LINK FENCE. INSTALL FENCE AT THE DRIP LINE OF TREES TO BE PRESERVED. FENCE SHALL BE REMOVED AT THE END OF THE CONSTRUCTION PERIOD.
4	EXISTING GROUND

NOTE:
NO STORAGE OF MATERIALS SHALL BE ALLOWED WITHIN OR AGAINST THE TREE PROTECTION FENCING.



TREE PROTECTION



KEY MAP
NOT TO SCALE

LEGEND	
SIGNIFICANT TREE TO BE REMOVED	X
OTHER TREE TO BE REMOVED (NOT SIGNIFICANT)	X
PROJECT AREA	

811
Know what's below. Call before you dig.

N

0 10 20 40 60
GRAPHIC SCALE

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FINAL DEVELOPMENT PLAN
HCA LEE'S SUMMIT
MEDICAL CENTER
2000 SE SHENANDOAH DRIVE
LEE'S SUMMIT, MO, 64063
JACKSON COUNTY

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION	06/05/2025

DRAWING TITLE
TREE CONSERVATION PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
L2.0

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HCA - LEE'S SUMMIT
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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

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

TREE CONSERVATION PLAN

L2.0

P:\2024\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\ED EXPANSION\20240037_TPR.dwg-L2.0 TREE CONSERVATION PLAN Jun 30, 2025 wbissard

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PLANTING NOTES

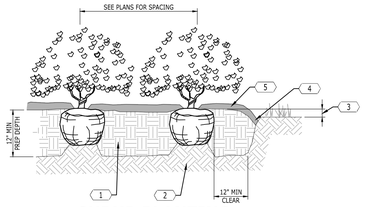
1. BASE INFORMATION WAS TAKEN FROM A SURVEY PREPARED BY LOVELACE & ASSOCIATES, LLC DATED 05/01/2024. CATALYST DESIGN GROUP AND ANY OF THEIR CONSULTANTS SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY AND/OR COMPLETENESS OF THAT INFORMATION SHOWN HEREON OR ANY ERRORS OR OMISSIONS RESULTING FROM SUCH.
2. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO CONFIRM ALL MATERIAL QUANTITIES. IN THE EVENT OF A DISCREPANCY, THE QUANTITIES SHOWN ON THE PLAN SHALL TAKE PRECEDENCE OVER THE MATERIAL SCHEDULE.
3. NO SUBSTITUTIONS AS TO TYPE, SIZE, OR SPACING OF PLANT MATERIALS SPECIFIED ON THIS PLAN MAY BE MADE WITHOUT THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
4. THE CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN, REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
5. ALL PLANTING BEDS TO RECEIVE "CHANCELLOR" HARDWOOD MULCH. MULCH TO BE INSTALLED TO 3" DEPTH UNLESS OTHERWISE INDICATED ON THE PLANTING DETAILS.
6. NEW TREE PLANTINGS TO BE STAKED PER PLANTING DETAILS
7. DIMENSIONS LISTED FOR HEIGHTS, SPREAD AND TRUNK SPECIFICATIONS ON THE PLANT MATERIAL SCHEDULE ARE GENERAL GUIDE FOR THE MINIMUM REQUIRED SIZE OF EACH PLANT.
8. PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL PLANTING BEDS IMMEDIATELY PRIOR TO PLACEMENT OF MULCH FOR WEED CONTROL.
9. ALL DISTURBED AREAS OF THE SITE ARE TO BE SEEDED AND/OR SODDED IN ACCORDANCE WITH THE SPECIFICATIONS.
10. NO EXCAVATION OR PLANTING PIT SHALL BE LEFT OPEN OVERNIGHT.
11. THE LANDSCAPE CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS, LICENSES, ETC. AND SHALL GIVE ALL NOTICES AND COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, CODES, RULES AND REGULATIONS DURING THE COURSE OF THE INSTALLATION OF THIS PROJECT.
12. ALL PLANT MATERIALS TO BE NURSERY GROWN AND TO COMPLY WITH THE AMERICAN STANDARD FOR NURSERY STOCK FOR SIZE AND QUALITY.
13. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REFUSE ANY PLANT MATERIAL OR ANY DEFECTIVE WORKMANSHIP.
14. ALL PLANTS SHALL HAVE A WELL-FORMED HEAD WITH MINIMUM CALIPER, HEIGHT AND SPREAD OF THE SIDE BRANCHES AS SHOWN ON THE PLANT LIST. TRUNKS SHALL BE UNDAMAGED AND SHAPE SHALL BE TYPICAL OF THE SPECIES.
15. MEASUREMENT OF CONIFER HEIGHT SHALL INCLUDE NOT MORE THAN FIFTY PERCENT (50%) OF THIS YEARS VERTICAL GROWTH (TOP CANDLE).
16. THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR STAKING AND LAYOUT OF PLANTINGS ON THIS PROJECT. THE LANDSCAPE ARCHITECT OR OWNER SHALL BE ADVISED WHEN STAKES ARE READY FOR INSPECTION ON VARIOUS PLANTING AREAS. ALL LAYOUT WORK SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER PRIOR TO OPENING ANY PLANT PITS.
17. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY THAT EACH EXCAVATED TREE OR SHRUB PIT WILL PERCOLATE (DRAIN) PRIOR TO ADDING TOPSOIL AND INSTALLING TREES OR SHRUBS. THE CONTRACTOR SHALL FILL THE BOTTOM OF SELECTED HOLES WITH SIX INCHES OF WATER. THIS WATER SHOULD PERCOLATE OUT WITHIN A 24-HOUR PERIOD. THE OWNER OR LANDSCAPE ARCHITECT SHALL VERIFY ACCURACY AND EFFECT OF PERCOLATION TESTING. IF THE SOIL AT A GIVEN AREA DOES NOT DRAIN PROPERLY, A P V C DRAIN OR GRAVEL SUMP SHALL BE INSTALLED OR THE PLANTING RELOCATED.
18. SHOULD THE LANDSCAPE CONTRACTOR ENCOUNTER UNSATISFACTORY SURFACE OR OTHER SUBSURFACE DRAINAGE CONDITIONS, SOIL DEPTH, LATENT SOILS, HARD PAN, STEAM OF OTHER UTILITY LINES OR OTHER CONDITIONS THAT WILL JEOPARDIZE THE HEALTH AND VIGOR OF THE PLANTS, HE MUST ADVISE THE LANDSCAPE ARCHITECT IN WRITING OF THE CONDITIONS PRIOR TO INSTALLING THE PLANTS, OTHERWISE THE LANDSCAPE CONTRACTOR WARRANTS THAT THE PLANTING AREAS ARE SUITABLE PROPER GROWTH AND DEVELOPMENT OF THE PLANTS TO BE INSTALLED.
19. NO MATERIAL SHALL BE PLANTED BEFORE FINISH GRADING HAS BEEN COMPLETED.
20. EXISTING TREES TO BE PRESERVED ARE TO BE BARRICADED BEFORE BEGINNING CONSTRUCTION. IN ACCORDANCE WITH THE TREE PRESERVATION NOTES AND DETAILS ON THE LANDSCAPE PLAN.
21. SELECTIVE CLEARING CONSISTING OF REMOVAL OF VINES, SAPLINGS UNDER 1" DIAMETER AND UNDERBRUSH SHALL BE PERFORMED IN TREE PRESERVATION AREAS INTERNAL TO THE PROJECT AND NOTED ON PLANS.
22. PLANTS IDENTIFIED IN ALTERNATE AREAS ARE TO BE BID SEPARATELY.
23. ALL BEDS ARE TO BE TILLED TO A DEPTH OF 8" WITH THE ADDITION OF: (1) 6 CU. FT. BALE OR SPHAGNUM PEAT MOSS PER 40 SQ. FT. OF BED AREA: (25#) 10-10-10 FERTILIZER PER 1000 SQ. FT. IF AZALEAS, RHODODENDRONS OR PIERIS ARE USED, ADD 1 3 CU. FT. FINELY GROUND "PINE" BARK MULCH PER 25 SQ. FT. OF BED AREA. ALL ADDITIONS ARE TO BE SPREAD AND TILLED INTO THE SOIL UNIFORMLY.
24. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT WHEN THE PLANT MATERIALS ARE AVAILABLE AT THE JOB SITE FOR REVIEW BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

IRRIGATION NOTES

1. LANDSCAPE CONTRACTOR TO PROVIDE IRRIGATION SYSTEM ON A DESIGN/BUILD ARRANGEMENT FOR AREA NOTED ON THE PLAN. CONTRACTOR TO PREPARE DESIGN DRAWINGS IN ACCORDANCE WITH PERFORMANCE SPECIFICATIONS CONTAINED IN THE PROJECT MANUAL AND SUBMIT SAME FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO CONFIRM ADEQUATE PRESSURE EXISTS TO OPERATE SYSTEM PRIOR TO INSTALLATION.
3. IRRIGATION SPRINKLER HEADS SHALL BE MANUFACTURED BY EITHER TORO OR RAINBIRD. IRRIGATION CONTROLLER SHALL BE TORO VISION II MODEL OR APPROVED EQUAL.
4. MAIN LINE TO BE CLASS 200 PVC PIPE. LATERAL LINES TO BE CLASS 150 PVC.
5. IRRIGATION SYSTEM TO BE OPERATIONAL BEFORE PLANTING MATERIALS MAY BE INSTALLED IN PLANTING BEDS.
6. INSTALL SPRINKLER HEADS ACCORDING TO MANUFACTURERS SPECIFICATIONS. FLUSH ALL LINES BEFORE INSTALLING NOZZLES.
7. WIRE CONNECTIONS TO BE MADE BY USING RAINBIRD MODEL ST-103/PT-ST SNAP-TITE CONNECTIONS.
8. LEAVE 18 INCHES OF ADDITIONAL WIRE AT EACH VALVE LOCATION. ROLL WIRE INTO COIL AT EACH LOCATION.
9. ALL VALVES SHALL BE LOCATED IN AMATEX 10 INCH CIRCULAR VALVE BOXES WITH COVER, OR EQUAL.
10. IRRIGATION CONTRACTOR TO COORDINATE PLACEMENT OF REQUIRED SLEEVES WITH GENERAL CONTRACTOR PRIOR TO PAVING AND CONCRETE INSTALLATION BEING COMPLETED.

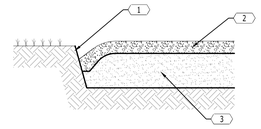
KEYNOTES	
CODE	DESCRIPTION
1	PLANTING MIX AS SPECIFIED
2	UNDISTURBED SUBGRADE. PROVIDE SUBGRADE PEDESTAL FOR EACH SHRUB INSTALLED, TO AVOID SETTLEMENT.
3	TOP OF ROOT BALL TO BE 1"-2" HIGHER THAN THE ADJACENT GRADE
4	"V" TRENCH AROUND PLANTING BED
5	3" HARDWOOD MULCH LAYER. CLEAR MULCH FROM WOODY SHRUB STEMS TO PREVENT FUNGAL GROWTH AND DECAY.

NOTES
1. TAMP PLANTING MIX AS PIT IS FILLED AROUND EACH PLANT BALL.
2. SOAK EACH PLANT BALL AND PIT IMMEDIATELY AFTER PLANTING.
3. SCARIFY THE ROOT BALL IF ROOT-BOUND IN ITS CONTAINER.
4. WHERE SHRUBS APPEAR IN BED AREAS, 3" OF MULCH SHALL BE SPREAD OVER THE ENTIRE AREA WITHIN THE BED EDGE AS INDICATED ON THE PLANS.
5. DO NOT PRUNE BEFORE ACCEPTANCE.
6. REMOVE BURLAP FROM TOP THIRD OF ROOT BALL OR CAREFULLY REMOVE THE PLASTIC CONTAINER, IF ONE IS USED.
7. BACKFILL WITH SOIL MIXTURE AS FOLLOWS: 1 PART COMPOSTED GARDEN SOIL; 1 PART SAND AND 2 PARTS NATIVE TOPSOIL.



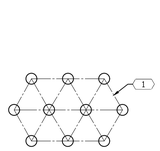
3 SHRUB PLANTING
NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	EDGE OF LAWN OR PAVEMENT. REFER TO GRADING PLANS FOR FINISH GRADE ELEVATION.
2	3" DEEP MULCH LAYER
3	BACKFILL WITH SOIL MIXTURE: 1 PART COMPOSTED GARDEN SOIL 1 PART SAND 2 PARTS NATIVE TOPSOIL



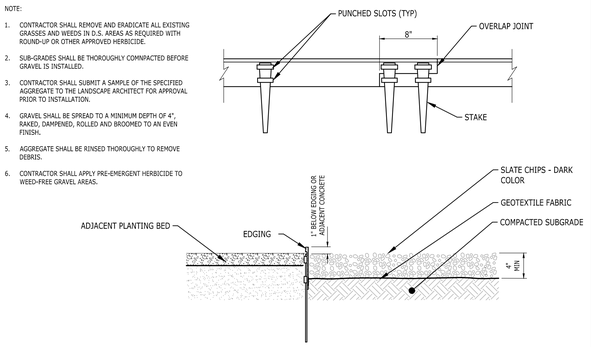
1 SPADED BED EDGE
NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	ALL GROUNDCOVER BEDS SHALL BE PLANTED USING TRIANGULAR SPACING, UNLESS SHOWN OTHERWISE. REFER TO THE PLANT SCHEDULE FOR SPACING.
2	4" HARDWOOD MULCH LAYER
3	REMOVE PLASTIC POT OR SPLIT PEAT POT
4	PREPARED SOIL MIXTURE: 1 PART ORGANIC GARDEN SOIL, 1 PART SAND, 2 PARTS NATIVE TOPSOIL, THOROUGHLY BLEND SOIL MIXTURE BEFORE PLACING.
5	UNDISTURBED SUBGRADE



4 GROUNDCOVER PLANTING
NOT TO SCALE

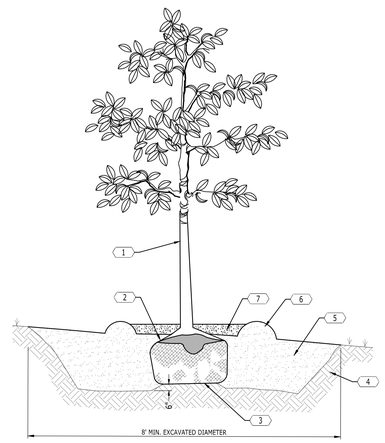
NOTE:
1. CONTRACTOR SHALL REMOVE AND ERADICATE ALL EXISTING GRASSES AND WEEDS IN D.S. AREAS AS REQUIRED WITH ROUND-UP OR OTHER APPROVED HERBICIDE.
2. SUB-GRADES SHALL BE THOROUGHLY COMPACTED BEFORE GRAVEL IS INSTALLED.
3. CONTRACTOR SHALL SUBMIT A SAMPLE OF THE SPECIFIED AGGREGATE TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
4. GRAVEL SHALL BE SPREAD TO A MINIMUM DEPTH OF 4", RAKED, DAMPENED, ROLLED AND BROOMED TO AN EVEN FINISH.
5. AGGREGATE SHALL BE RINSED THOROUGHLY TO REMOVE DEBRIS.
6. CONTRACTOR SHALL APPLY PRE-EMERGENT HERBICIDE TO WEED-FREE GRAVEL AREAS.



5 GRAVEL MULCH BED
NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	CLEAR TRUNK TO HEIGHT SPECIFIED
2	FOLD DOWN OR CUT AND REMOVE THE TOP THIRD OF THE BURLAP. REMOVE NON-BIODEGRADABLE WRAP COMPLETELY. REMOVE WIRE BASKET.
3	PLACE ROOT BALL ON UNDISTURBED SOIL
4	UNDISTURBED SUBGRADE
5	BACKFILL EXCAVATION WITH TOP 8" REMOVED DURING PIT EXCAVATION
6	SOIL RING 4" HIGH AROUND TREE. MINIMUM 3' RADIUS AROUND TRUNK.
7	3" DEEP MULCH IN SOIL RING AREA

NOTES:
1. SCARIFY THE EDGES OF THE EXCAVATED PIT AND TAKE ALL NECESSARY MEASURES TO ASSURE ADEQUATE DRAINAGE.
2. TO ENSURE SUCCESSFUL ESTABLISHMENT OF ALL TREES PLANTED OUTSIDE THE LIMITS OF IRRIGATION EVERY SUCH TREE SHALL BE FITTED WITH A SLOW-RELEASE WATERING SYSTEM SUCH AS "TREEGATOR BAGS" OR AN APPROVED EQUAL.
3. AS PART OF THE MAINTENANCE PLAN IT IS RECOMMENDED THAT ALL TREES OUTSIDE THE LIMITS OF IRRIGATION BE WATERED A MAXIMUM OF TWO TIMES PER WEEK DURING DRY SEASONS AND ONE TIME PER WEEK DURING WET SEASONS FOR A MINIMUM OF TWO YEARS FROM THE DATE OF INSTALLATION.
4. IT IS THE OWNER'S RESPONSIBILITY TO COORDINATE AND SCHEDULE TREE MAINTENANCE.



2 CANOPY TREE PLANTING
NOT TO SCALE

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Devenney Group Ltd., Architects
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T: 602.943.8950
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LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
816-282-5000

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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:
AGENCY

NO.	DESCRIPTION	DATE

REVISIONS		
REV #	DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS
HCA LEE'S SUMMIT MEDICAL CENTER
2000 SE SHENANDOAH DRIVE
LEE'S SUMMIT, MO 64063
JACKSON COUNTY

DRAWING TITLE
LANDSCAPE DETAILS

PROJECT NUMBER
20240037

DRAWING NUMBER
L3.0

DATE:	2025/04/18
SCALE:	
DRAWN:	AP
REVIEWED:	JP
JOB NUMBER:	6406.24

LANDSCAPE DETAILS

L3.0

P:\2024\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\ED EXPANSION\20240037_LAN DET.dwg 13.0 LANDSCAPE DETAILS Apr 10, 2025 wkkisard

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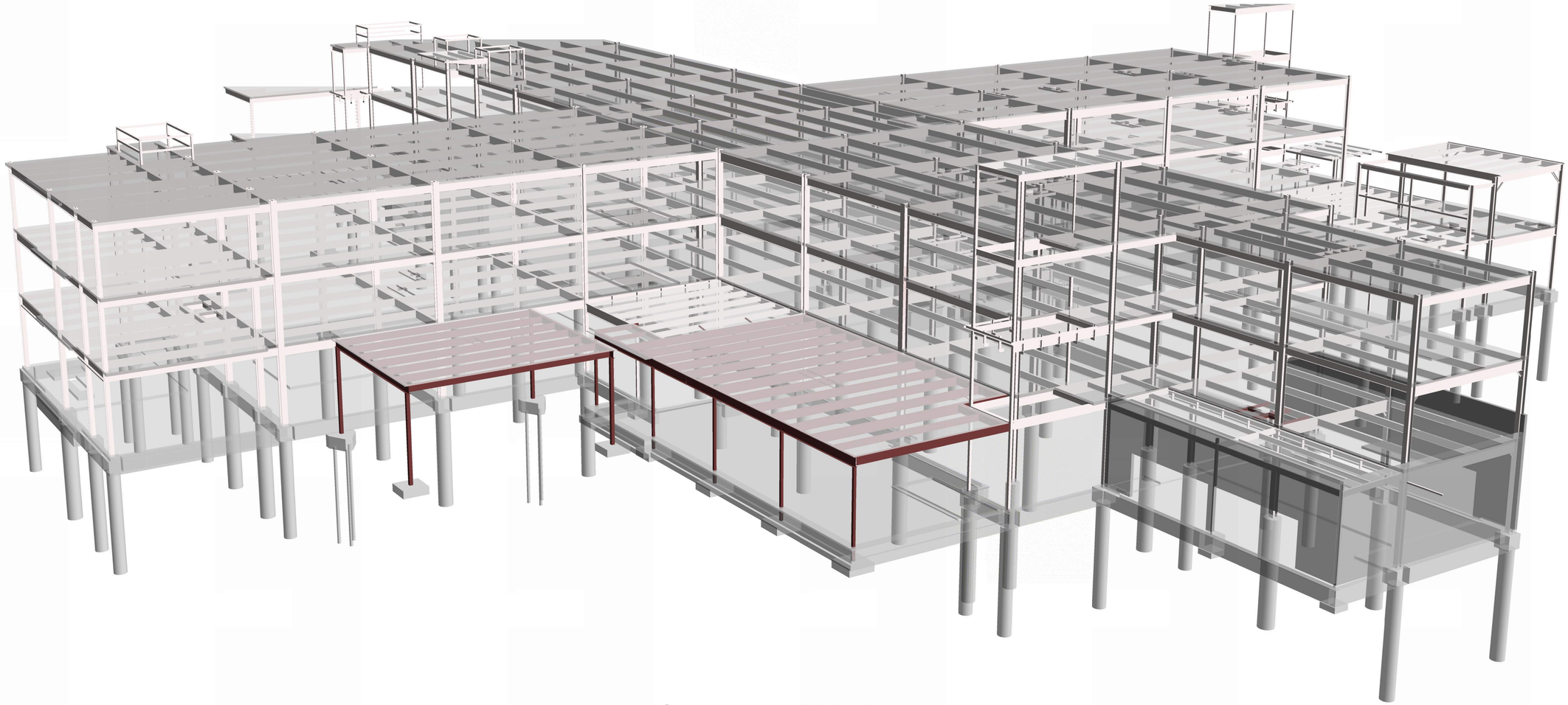

1 STRUCTURAL AXON
(FOR REFERENCE ONLY)

Devenney Group Ltd., Architects

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1966 SDL
Structural Engineers
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Building 1, Suite 175
Brentwood, TN 37027
www.sdlal.com
615 320 1735

Project No. 24237.00

STATE OF MISSOURI
MICHAEL JOSEPH LINDSEY
NUMBER A-12425
PROFESSIONAL ENGINEER

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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

AUTHORITY HAVING JURISDICTION'S PROJECT NO:

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	
DRAWN:	JL
REVIEWED:	JDP & KF
JOB NUMBER:	6406.24.0003

STRUCTURAL AXON VIEW

S001

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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STRUCTURAL NOTES

A. GENERAL

1. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, ENGINEER, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS. NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE STRUCTURAL ENGINEER OR ANY OF THE STRUCTURAL ENGINEER'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
2. CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.
3. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
4. CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.
5. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
6. CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SEE THE ARCHITECTURAL DRAWINGS.
7. CONTRACTOR SHALL OBTAIN AND COORDINATE EDGE OF SLAB DIMENSIONS, OPENING LOCATIONS AND DIMENSIONS, DEPRESSED SLAB LOCATIONS AND EXTENTS, SLAB SLOPES, CURB LOCATIONS, AND CMU WALL LOCATIONS. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION.
8. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.
9. CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT, OWNER-FURNISHED ITEMS, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS. CONTRACTOR SHALL VERIFY EQUIPMENT WEIGHTS, REQUIRED OPENING SIZES AND LOCATIONS IDENTIFIED ON THE STRUCTURAL DRAWINGS ARE IN AGREEMENT WITH FINAL ARCHITECTURAL AND MECHANICAL SHOP DRAWINGS AND SUBMITTALS.
10. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, SAFETY, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
11. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTABILITY ANALYSIS, AND ERECTION PROCEDURES, INCLUDING DESIGN AND ERECTION OF FALSEWORK, TEMPORARY BRACING, ETC.
12. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
13. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN IN THE CONTRACT DOCUMENTS. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZES OF MEMBERS AND THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE ARCHITECT / STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE STRUCTURAL ENGINEER. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE ARCHITECT / STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
14. WHERE A SECTION OR DETAIL IS SHOWN OR DETAILED FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR AND LIKE CONDITIONS. DETAILS LABELED "TYPICAL" OR "TYP." ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR. THE CONTRACTOR SHALL CONSIDER ALL OF THE CONTRACT DOCUMENTS IN DETERMINING SIMILAR AND LIKE CONDITIONS.
15. USE ONLY DIMENSIONS INDICATED ON THE CONTRACT DOCUMENTS. DO NOT SCALE DRAWINGS OR MEASURE OBJECTS IN ELECTRONIC FILES. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES.
16. THE OWNER SHALL ESTABLISH A PERIODIC MAINTENANCE PROGRAM TO PROTECT THE STRUCTURE FROM DETERIORATION. THE MAINTENANCE PROGRAM IS THE RESPONSIBILITY OF THE OWNER AND SHOULD INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:

    PAINTING OF EXPOSED STEEL THAT IS NOT GALVANIZED.
    INSPECTION AND MAINTENANCE OF PROTECTIVE COATINGS, SEALANTS, CAULKED JOINTS, AND CONTROL JOINTS.
    REPAIR OF SPALLS AND CRACKS IN CONCRETE ELEMENTS.
    REPAIR AND RESTORATION OF CORRODED ELEMENTS.
    CLEANOUT OF DRAINS INCLUDING ALL ROOF AND TRENCH DRAINS AND SCUPPERS.
    CLEANING OF STRUCTURAL ELEMENTS EXPOSED TO HARSH CHEMICALS INCLUDING DE-ICING CHEMICALS.
17. THE USE OF STRUCTURAL BIM OR CAD FILES IS PROHIBITED WITHOUT WRITTEN CONSENT FROM THE STRUCTURAL ENGINEER.

B. CODE/DESIGN CRITERIA

1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2018 EDITION.
2. GRAVITY LOADS

    2.1. UNIFORM FLOOR LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

HOSPITAL FLOORS	80 PSF	(INCLUDES PARTITIONS)
CORRIDORS — FIRST FLOOR	100 PSF	
MECHANICAL ROOMS	150 PSF	(NON-REDUCIBLE)

    2.2. UNIFORM ROOF LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

ROOF	20 PSF	
SNOW		
GROUND SNOW LOAD, p_g	20 PSF	
SNOW EXPOSURE FACTOR, C_e	1.0	
SNOW THERMAL FACTOR, C_t	1.0	
SNOW IMPORTANCE FACTOR, I_S	1.2	
FLAT ROOF SNOW LOAD, p_f	16.8 PSF	
SLOPE FACTOR, C_s	1.0	
DRIFT SURCHARGE LOAD(S), p_d	SEE SNOW LOADING PLAN	
WIDTH OF SNOW DRIFT(S), w	SEE SNOW LOADING PLAN	
RAIN INTENSITY (15-MIN. STORM DURATION), i	9.34 IN/HR	

    PONDING AND DRIFT EFFECTS HAVE BEEN INCLUDED IN THE DESIGN.

    2.3. CONCENTRATED FLOOR LOADS - DISTRIBUTED OVER AN AREA OF 2.5 FT², UNLESS NOTED OTHERWISE:

HOSPITAL	1,000 LB
PEDESTRIAN BRIDGE	2,000 LB

    2.4. DEAD LOADS (IN ADDITION TO STRUCTURE SELF-WEIGHT):

ROOF:	ROOFING AND INSULATION	15 PSF

3. WIND LOADS:

BASIC DESIGN WIND SPEED, V	122 MPH
ALLOWABLE STRESS DESIGN WIND SPEED, V_{asd}	95 MPH
EXPOSURE	C
RISK CATEGORY	IV
INTERNAL PRESSURE COEFFICIENT, GC_{pi}	± 0.18

4. EARTHQUAKE LOADS:

RISK CATEGORY	IV
SEISMIC IMPORTANCE FACTOR, I_e	1.5
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS:	
S_S	0.101 g
S_1	0.069 g
SITE CLASS	B
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:	
S_{DS}	0.067 g
S_{D1}	0.046 g
SEISMIC DESIGN CATEGORY	A
BASIC SEISMIC-FORCE-RESISTING SYSTEM:	
STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE	
RESPONSE MODIFICATION FACTOR, R	3
SEISMIC RESPONSE COEFFICIENT, C_s	1 %

5. MAXIMUM ESTIMATED DEFLECTIONS LISTED BELOW ARE EXPECTED TO OCCUR AND SHALL BE CONSIDERED BY THE CONTRACTOR AND CLADDING DESIGNERS IN THE PERFORMANCE OF THE WORK:

    5.1. SPANDREL BEAM DEFLECTIONS: 1/2" RELATIVE SUPERIMPOSED LOAD DEFLECTION BETWEEN LEVELS. RELATIVE SUPERIMPOSED LOAD DEFLECTION IS THE DEFLECTION ANTICIPATED TO OCCUR BETWEEN ADJACENT FLOORS AFTER THE CLADDING HAS BEEN ERECTED. THE RELATIVE SUPERIMPOSED DEFLECTION DOES NOT INCLUDE DEFLECTIONS DUE TO THE WEIGHT OF THE FLOOR FRAMING ITSELF, NOR DOES IT INCLUDE AN ALLOWANCE FOR CONSTRUCTION TOLERANCE.

    5.2. MAXIMUM ESTIMATED DEFLECTIONS (IN INCHES) ARE AS FOLLOWS:

	LIVE LOAD	DEAD + LIVE LOAD
ROOF MEMBERS:	L/360	L/240
FLOOR MEMBERS:	L/360	L/240

    WHERE L = SPAN LENGTH (IN INCHES) BETWEEN CENTERLINES OF SUPPORTS. (FOR CANTILEVERS, L IS TWICE THE LENGTH OF THE CANTILEVER.)

    5.3. MAXIMUM LATERAL INTER-STORY DRIFT DUE TO WIND LOADING (10-YEAR MEAN RECURRENCE INTERVAL) ARE AS FOLLOWS:

    H/400 AT THE CENTER OF MASS
    MAXIMUM OF 0.6" AT THE EDGE OF THE BUILDING
6. SPECIAL INSPECTIONS ARE REQUIRED PER IBC CHAPTER 17 AND AS SPECIFIED IN THE STRUCTURAL SPECIAL INSPECTION STATEMENT PROVIDED BY THE STRUCTURAL ENGINEER.
7. PROVISIONS HAVE BEEN MADE FOR A ONE-STORY FUTURE VERTICAL EXPANSION OF THE PATIENT TOWER.
8. RENOVATION PROJECTS MAY REQUIRE FIELD-DIRECTED MODIFICATIONS BASED ON EXISTING CONDITIONS. THE STRUCTURAL ENGINEER SHALL PROVIDE MODIFICATIONS OR ADDITIONS TO THE EXISTING STRUCTURE BASED ON FIELD OBSERVATIONS OR REPORTS. THE CONTRACTOR SHALL DOCUMENT ANY FIELD-DIRECTED MODIFICATIONS AND SHALL SUBMIT THE NECESSARY DOCUMENTATION TO THE OWNER.

C. DEFERRED STRUCTURAL SUBMITTALS

1. DEFERRED SUBMITTALS, AS DEFINED BY THE BUILDING CODE, SHALL BE SUBMITTED TO THE BUILDING OFFICIAL BY THE CONTRACTOR. THE DEFERRED SUBMITTALS SHALL BE SIGNED AND SEALED BY A LICENSED ENGINEER IN THE PROJECT STATE.
2. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF THE DEFERRED SUBMITTAL COMPONENTS OR THE CONNECTION TO THE STRUCTURE. THE STRUCTURAL DESIGN OF THE COMPONENTS AND THE CONNECTION TO THE STRUCTURE IS DELEGATED TO A SPECIALTY ENGINEER WHO SHALL BE ENGAGED BY THE CONTRACTOR, VENDOR, AND / OR SUPPLIER OF THE COMPONENTS AS PART OF THE DEFERRED SUBMITTAL PROCESS.
3. THE CONTRACTOR SHALL SUBMIT THE DEFERRED SUBMITTAL TO THE ARCHITECT / STRUCTURAL ENGINEER FOR REVIEW. AFTER REVIEW BY THE ARCHITECT / STRUCTURAL ENGINEER THE CONTRACTOR SHALL SUBMIT THE REVIEWED SUBMITTAL TO THE BUILDING OFFICIAL PER SECTION 107.3 OF THE BUILDING CODE.
4. THE ITEMS LISTED BELOW ARE IDENTIFIED AS DEFERRED SUBMITTALS. REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEFERRED SUBMITTAL COMPONENTS. ALL COSTS ASSOCIATED WITH THE PREPARATION OF THE DEFERRED SUBMITTAL, INCLUDING THE SPECIALTY ENGINEER'S DESIGN FEES, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

    HELICAL FOUNDATION PILES
    CONCRETE FORMWORK
    STRUCTURAL STEEL CONNECTIONS
    COLD FORMED METAL FRAMING
    PANELIZED WALL SYSTEMS
    EXTERIOR BUILDING SIGNAGE
    ANCHORAGE OF EXTERIOR ARCHITECTURAL, MECH., ELEC., AND PLUMBING EQUIPMENT
    ATTACHMENT OF ROOFTOP EQUIPMENT, PIPING, & DUCTWORK TO THE UNDERLYING STRUCTURE
    GLAZING SYSTEMS (e.g., CURTAIN WALL, WINDOW WALL, AND STOREFRONT SYSTEMS)
    SLOTTED CHANNEL STRUT FRAMING (e.g., UNISTRUT)
    PREFABRICATED / PRE-ENGINEERED ARCHITECTURAL ELEMENTS AND STRUCTURES
    OTHER ELEMENTS SPECIFICALLY IDENTIFIED IN THE CONTRACT DOCUMENTS
    WINDOW WASHING, FALL PROTECTION, AND BUILDING MAINTENANCE SYSTEMS
5. DEFERRED SUBMITTAL COMPONENTS SHALL BE DESIGNED FOR THE LOADS AS DEFINED BY THE APPLICABLE BUILDING CODE WITH DESIGN DATA DEFINED IN THE SECTION B OF THE STRUCTURAL NOTES.
6. THE DESIGN OF ITEMS LISTED BELOW ARE THE RESPONSIBILITY OF THE CONTRACTOR BUT ARE NOT CONSIDERED A DEFERRED SUBMITTAL AND ARE NOT TO BE SUBMITTED TO THE DESIGN TEAM. ALL COSTS ASSOCIATED WITH THE DESIGN OF THESE ELEMENTS, INCLUDING THE SPECIALTY ENGINEER'S DESIGN FEES, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

    TEMPORARY SUPPORT OF EXCAVATION SYSTEMS
    TEMPORARY BRACING / SHORING FOR STABILITY OF STRUCTURE DURING CONSTRUCTION
    ALL OTHER ELEMENTS IDENTIFIED IN THE CONTRACT DOCUMENTS

D. FOUNDATION

1. FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY ALPHA-OMEGA GEOTECH (REPORT NUMBER AOG 240229 E DATED DECEMBER 4, 2024)., STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE ASSUMED FOR DESIGN.
2. STRUCTURAL TESTING/INSPECTION AGENCY SHALL CERTIFY THE BEARING MEDIUM.
3. INDIVIDUAL SPREAD FOOTINGS AND CONTINUOUS FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUPPORTING 2,000 PSF.
4. HELICAL FOUNDATION PILES SHALL HAVE A DESIGN CAPACITY OF 16 KIPS IN COMPRESSION AND 5 KIPS IN UPLIFT.
5. FOUNDATION WALLS ARE DESIGNED FOR LATERAL PRESSURES DUE TO THE FOLLOWING EQUIVALENT FLUID DENSITIES:

WALLS SUPPORTED AT TOP	(AT-REST CONDITION):	48 PCF
WALLS FREE TO DISPLACE AT TOP	(ACTIVE CONDITION):	30 PCF

6. PROOF-ROLL BUILDING AREAS WITH TWO COMPLETE COVERAGES OF A LOADED DUMP TRUCK OR SCRAPER. REPLACE SOFT AREAS WITH COMPACTED STRUCTURAL FILL AS REQUIRED BY THE SPECIFICATIONS.
7. UNDERCUT THE BUILDING AREAS AND REPLACE WITH STRUCTURAL FILL AS INDICATED IN THE GEOTECHNICAL REPORT AND SPECIFICATIONS.

E. REINFORCEMENT

1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
2. WELDED WIRE REINFORCING SHALL CONFORM TO ASTM A1064 AND HAVE MINIMUM SIDE AND END LAPS OF ONE CROSS WIRE SPACING PLUS 2", BUT NOT LESS THAN 6".
3. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND DETAILS IS NOT ACCEPTABLE.
4. PROVIDE DOWELS FROM FOUNDATIONS THE SAME SIZE AND NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
5. PLACE REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

    5.1. CAST-IN-PLACE CONCRETE REINFORCEMENT COVER

PERMANENTLY EXPOSED TO EARTH:	
CAST AGAINST THE EARTH	3" CLEAR
EXPOSED TO EARTH OR WEATHER:	
FOR BARS LARGER THAN A NO. 5 BAR	2" CLEAR
NO. 5 BARS OR SMALLER	1-1/2" CLEAR
NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH:	
WALLS	3/4" CLEAR
SLABS	3/4" CLEAR

6. REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED IN THE STRUCTURAL DOCUMENTS, EXCEPT REINFORCEMENT MARKED "CONTINUOUS" CAN BE SPLICED AT LOCATIONS DETERMINED BY CONTRACTOR. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. REINFORCING STEEL SPLICES SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

    CONCRETE: CLASS B TENSION LAP — SEE REINFORCING LAP LENGTH SCHEDULE

F. CAST-IN-PLACE CONCRETE

1. CONCRETE WORK SHALL CONFORM TO ACI 318 AND CRSI STANDARDS.
2. CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:

    2.1. NORMAL WEIGHT STRUCTURAL CONCRETE:

	EXPOSURE CLASS	28-DAY MIN. COMPRESSIVE STRENGTH, f'_c	MAX. w/cm RATIO	MAX. NOM. AGGREGATE SIZE
FOOTINGS AND PILE CAPS	C1, W1	4,000 PSI	0.50	1-1/2"
PEDESTALS	C1, W1	4,000 PSI	0.50	1"
INTERIOR SLABS-ON-GROUND	C1	4,000 PSI	0.48	1"
EXTERIOR SLABS-ON-GROUND	F2, C1	4,500 PSI	0.45	1"
CURBS, PARAPETS	F1,C1	4,500 PSI	0.45	3/4"

    ALL NORMAL WEIGHT CONCRETE SHALL BE CONSIDERED TO BE IN EXPOSURE CLASS F0, S0, W0, AND C0 ACCORDING TO ACI 318 UNLESS NOTED OTHERWISE ABOVE OR ELSEWHERE ON THE STRUCTURAL DRAWINGS
3. CONCRETE MIX REQUIREMENTS

    3.1. ALL CONCRETE SHALL BE PROPORTIONED TO COMPLY WITH ACI 318 CHAPTER 19 IN ACCORDANCE WITH THE EXPOSURE CLASS INDICATED. WHERE REQUIREMENTS INDICATED DIFFER FROM REQUIREMENTS OF CHAPTER 19, THE STRICTER REQUIREMENT SHALL APPLY. REFER TO THE SPECIFICATIONS FOR OTHER REQUIREMENTS FOR VARIOUS EXPOSURE CLASSES RELATIVE TO THE CEMENT TYPE, AIR ENTRAINMENT REQUIREMENTS, CHLORIDE ION LIMITS, POZZOLAN LIMITS, AND SHRINKAGE LIMITS.

    3.2. CONCRETE SHALL BE CONSIDERED EXTERIOR CONCRETE IF THE CONCRETE IS PERMANENTLY EXPOSED TO THE WEATHER OR MOISTURE OR IF IT IS IN AN UNCONDITIONED SPACE IN ITS COMPLETED CONFIGURATION.

    3.3. ALL CONCRETE SHALL SATISFY BOTH THE SPECIFIED MAXIMUM WATER TO CEMENT RATIO AND THE MINIMUM COMPRESSIVE STRENGTH, f'_c, REQUIREMENTS.
4. PIPES OR DUCTS SHALL NOT EXCEED ONE-THIRD THE SLAB OR WALL THICKNESS UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.
5. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND FOR LOCATION OF ALL CONCRETE FINISHES AND SLAB DEPRESSIONS.
6. CONSTRUCTION JOINTS

    6.1. LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.

    6.2. NO HORIZONTAL JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.

    6.3. JOINTS SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF SPANS OF SLABS.
7. DEFECTIVE AREAS IN CONCRETE INCLUDING BUT NOT LIMITED TO, HONEY-COMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.012" SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / STRUCTURAL ENGINEER. REPAIR DEFECTIVE AREAS AS DIRECTED BY THE STRUCTURAL ENGINEER.
8. POLYSTYRENE GEOFOAM SHALL CONFORM TO ASTM D6817, TYPE EPS29.

G. POST-INSTALLED ANCHORS AND REINFORCING STEEL

1. POST-INSTALLED ANCHORS AND REINFORCING STEEL SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST-INSTALLED ANCHORS OR REINFORCING STEEL IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS OR REINFORCING STEEL.
2. CONTRACTOR SHALL ARRANGE ONSITE INSTALLATION TRAINING BY THE MANUFACTURER FOR EACH PRODUCT TO BE INSTALLED. SUBMIT TO THE STRUCTURAL ENGINEER DOCUMENTATION CONFIRMING TRAINING OF ALL PERSONNEL WHO WILL BE INSTALLING PRODUCTS. TRAINING AND DOCUMENTATION SHALL OCCUR PRIOR TO THE COMMENCEMENT OF PRODUCT INSTALLATION. INSTALLATION OF ADHESIVE ANCHOR PRODUCTS IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATION RESISTING SUSTAINED TENSION LOADS SHALL BE CONDUCTED BY AN INSTALLER CERTIFIED IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM. PROOF OF CERTIFICATION SHALL BE MAINTAINED AT THE JOB SITE.
3. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR OR REINFORCING LOCATIONS. CONTRACTOR SHALL LOCATE THE POSITION OF REINFORCING BARS AND P.T. TENDONS BY FERROSCAN, GPR, X-RAY, CHIPPING, OR OTHER MEANS PRIOR TO ANCHOR INSTALLATION. THE CONTRACTOR SHALL NOT DAMAGE ANY REINFORCING.
4. ADHESIVE ANCHOR INSERT SHALL BE ALL THREAD ROD OF THE FOLLOW MATERIAL U.N.O.:

    INTERIOR ENVIRONMENTS: ASTM F1554 Gr. 36
    EXTERIOR ENVIRONMENTS: ASTM F1554 Gr. 36 GALV. PER ASTM B695, CLASS 65 TYPE I
    CORROSIVE ENVIRONMENTS: ASTM A193 GR. B8M TYPE 316
5. MECHANICAL AND SCREW ANCHORS IN EXTERIOR AND CORROSIVE ENVIRONMENTS SHALL BE GALVANIZED OR STAINLESS STEEL AND SHALL APPROVED BY THE MANUFACTURER FOR THE EXPOSURE.
6. PROVIDE THE FOLLOWING INSTALLATION CONDITIONS FOR ADHESIVE ANCHORS. NOTIFY THE STRUCTURAL ENGINEER IF THESE CONDITIONS DO NOT EXIST:

    HOLES DRILLED WITH HAMMER DRILL WITH CARBIDE TIPPED DRILL BIT
    DRY HOLE
    CONCRETE CURED FOR A MINIMUM OF 21 DAYS
    TEMPERATURE CATEGORY B (110° F LONG TERM AND 130° F SHORT TERM)

H. STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED ACCORDING TO THE ANSI/AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND THE AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
2. STRUCTURAL STEEL SHALL BE OF THE FOLLOWING GRADE UNLESS NOTED OTHERWISE ON DRAWINGS:

W, WT, C, AND MC SHAPES	ASTM A992
L, M, S, MT, AND ST SHAPES	ASTM A572, GRADE 50
HSS SHAPES	ASTM A500, GRADE C
STEEL PIPE SHAPES	ASTM A53, GRADE B
PLATES AND BARS	
OUTRIGGERS, BENT PLATES, AND ELEMENTS LESS THAN 1/2" THICK	ASTM A36
BASE PLATES AND ALL OTHER ELEMENTS	ASTM A572, GRADE 50
ROUND ROD	ASTM A36

3. BOLTS AND ANCHOR RODS:

    3.1. ALL BOLTS SHALL BE GROUP 120 OR GROUP 150 HIGH-STRENGTH BOLTS WITH A 3/4" MINIMUM DIAMETER UNLESS NOTED OTHERWISE. BOLT SHEAR STRENGTH SHALL BE DETERMINED PER TABLE 7-1 IN THE AISC "STEEL CONSTRUCTION MANUAL".

    3.2. ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 55 UNLESS NOTED OTHERWISE.
4. CONNECTIONS:

    4.1. STEEL CONNECTIONS SHALL BE DETAILED BASED ON THE DESIGN INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. DEVIATION FROM THE CONNECTION DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL NOT BE PERMITTED WITHOUT ADVANCE WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER.

    4.2. THE SERVICES OF A CONNECTION DESIGN SPECIALTY ENGINEER (CDSE) SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF SERVICES. THE CDSE SHALL BE LICENSED IN THE PROJECT STATE. THE CDSE IS RESPONSIBLE FOR REVIEWING THE STEEL SHOP DRAWINGS TO ENSURE THAT ALL CONNECTION DESIGN DETAILS HAVE BEEN CORRECTLY SHOWN ON THE SHOP DRAWINGS; AND, THE CDSE SHALL SUBMIT A SIGNED AND SEALED LETTER, WITH EACH SHOP DRAWING SUBMITTAL, CONFIRMING THE ABOVE REVIEW.

    4.3. STANDARD SHEAR CONNECTIONS:

        4.3.1. STANDARD SHEAR CONNECTIONS SHALL BE DETAILED AS DOUBLE-ANGLE, SINGLE-PLATE, SINGLE-ANGLE, OR TEE CONNECTIONS IN ACCORDANCE WITH CONNECTION TABLES IN PART 10 OF THE "STEEL CONSTRUCTION MANUAL". THE CDSE SHALL SUBMIT SIGNED AND SEALED CALCULATIONS FOR ALL SHEAR CONNECTIONS THAT CANNOT BE DETAILED COMPLETELY FROM THE ABOVE MANUAL FOR REVIEW BY THE STRUCTURAL ENGINEER.

        4.3.2. CONNECTIONS SHALL BE DETAILED TO CARRY A MINIMUM AXIAL LOAD OF 0.05 × THE REQUIRED SHEAR DESIGN LOAD FOR THE CONNECTION

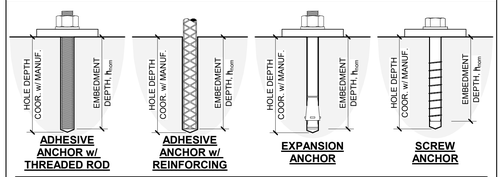
    4.4. FOR WELDED CONNECTIONS, USE PREQUALIFIED WELDED JOINTS IN ACCORDANCE WITH AISC AND THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY. "NON-PREQUALIFIED JOINTS" SHALL BE QUALIFIED PRIOR TO FABRICATION.

    4.5. THE REQUIRED REACTION USING LRFD LOAD COMBINATIONS SHALL BE AS SHOWN ON THE STRUCTURAL DRAWINGS. IF REACTIONS ARE NOT SHOWN, CONTACT THE STRUCTURAL ENGINEER.

    4.6. STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY THE CDSE WITH THE EXCEPTION OF SIMPLE SHEAR CONNECTIONS AS DESCRIBED IN SECTION 4.3. THE CDSE SHALL SUBMIT SIGNED AND SEALED CALCULATIONS FOR ALL SUCH CONNECTIONS. THE CDSE SHALL USE THE UNIFORM FORCE METHOD WHEN APPLICABLE FOR ALL BRACE AND TRUSS TYPE CONNECTION DESIGNS.

    4.7. REVIEW OF THE SHOP DRAWINGS AND/OR CONNECTION CALCULATIONS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR AND CDSE OF THE FULL RESPONSIBILITY FOR THE DESIGN AND ADEQUACY OF SUCH CONNECTIONS.
5. THE CAMBER OF STEEL MEMBERS SHALL BE VERIFIED IN THE SHOP AND THE FIELD PER THE SPECIFICATIONS.
6. THE STRUCTURAL STEEL MEMBERS HAVE NOT BEEN DESIGNED TO ACCOMMODATE THE TORSION RESULTING FROM THE ECCENTRIC LOADING OF THE PRECAST PANELS, CURTAINWALL SYSTEMS, LIGHT GAUGE METAL FRAMING, ETC. SUPPLEMENTAL SECONDARY BRACING SHALL BE DESIGNED AND PROVIDED BY THE SUPPLIER TO ELIMINATE TORSION.
7. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) AND ITS REQUIRED CATEGORIES ARE INDICATED IN EITHER THE ARCHITECTURAL OR STRUCTURAL DRAWINGS. AESS SHALL CONFORM TO THE REQUIREMENTS IN SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE FOR THE SPECIFIED CATEGORY. WHERE THE CATEGORY IS NOT SPECIFIED, OR THERE IS A CONFLICT, CONSULT THE ARCHITECT.
8. ALL STEEL EXPOSED TO WEATHER OR MOISTURE SHALL BE GALVANIZED UNLESS OTHERWISE DIRECTED BY THE ARCHITECT.
9. THE LATERAL LOAD-RESISTING SYSTEM INCLUDES STRUCTURAL STEEL, NON-STRUCTURAL STEEL ELEMENTS, AND

POST-INSTALLED ANCHOR INFORMATION



NOTES:

1. POST INSTALLED ANCHORS SHALL BE ONE OF THE PRODUCTS LISTED IN THE TABLE BELOW, UNLESS A SUBSTITUTION IS APPROVED BY THE STRUCTURAL ENGINEER.
2. THE EMBEDMENT DEPTH SPECIFIED IS THE MINIMUM LENGTH OF THE ANCHOR INTO THE HOLE (NOMINAL EMBEDMENT DEPTH, h_{nom}).
3. COORDINATE THE ACTUAL ANCHOR LENGTH w/ THE SPECIFIED MINIMUM EMBEDMENT DEPTH, ATTACHMENT THICKNESS, WASHERS, ETC.
4. ANCHORS AND REINFORCING STEEL SHALL BE INSTALLED PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).
5. COORDINATE THE REQUIRED DRILL BIT TYPE, NOMINAL DIAMETER, AND HOLE DEPTH w/ THE ANCHOR MANUFACTURER AND THE CODE EVALUATION REPORT. CLEAN THE HOLE AS REQUIRED BY THE MANUFACTURER AND CODE EVALUATION REPORT REQUIREMENTS FOR THE SELECTED INSTALLATION METHOD.
6. DO NOT DAMAGE ANY EXISTING REINFORCING, INCLUDING PT TENDONS, DURING THE INSTALLATION PROCESS OF POST-INSTALLED ANCHORS.
7. ANCHORS SHALL BE INSTALLED WITHIN 6° OF PERPENDICULAR TO THE CONCRETE OR MASONRY SURFACE, UNLESS NOTED OTHERWISE.
8. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS. IF NO SPACING OR EDGE DISTANCES ARE SPECIFIED ON THE STRUCTURAL DRAWINGS, REFER TO APPLICABLE EVALUATION REPORT FOR CRITICAL SPACING AND EDGE DISTANCES.
9. REFERENCE THE STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
10. MINIMUM EMBEDMENT DEPTHS SHALL BE THE FOLLOWING, UNLESS NOTED OTHERWISE:
    8 × ANCHOR DIAMETER FOR EXPANSION AND SCREW ANCHORS
    12 × ANCHOR DIAMETER OR REINFORCING DIAMETER FOR ADHESIVE ANCHORS.

PERMISSIBLE POST-INSTALLED ANCHOR PRODUCTS

ANCHOR TYPE	MANUFACTURER	PRODUCT NAME	BASE MATERIAL		
			CONCRETE	SOLID GROUTED CMU	HOLLOW CMU
EXPANSION ANCHOR	SIMPSON STRONG-TIE	STRONG-BOLT 2	ICC ESR-3037	IAPMO-UES ER-240	-
	HILTI	KWIK BOLT-TZ2	ICC ESR-4266	ICC ESR-4561	-
	DEWALT	POWER-STUD+ SD2	ICC ESR-2502	-	-
		POWER-STUD+ SD1	-	ICC ESR-2966	-
SCREW ANCHOR	SIMPSON STRONG-TIE	TITEN-HD	ICC ESR-2713	ICC ESR-1056	ICC ESR-1056
	HILTI	KWIK HUS-EZ	ICC ESR-3027	ICC ESR-3056	-
		KWIK-CON II	-	-	NO REPORT
	DEWALT	SCREW-BOLT+	ICC ESR-3889	ICC ESR-4042	-
		TAPPER +	-	-	ICC ESR-3196
SHALLOW ANCHOR	HILTI	HDI-P-TZ	ICC ESR-4236	-	-
	DEWALT	MINI-UNDERCUT+	ICC ESR-3912	-	-
ADHESIVE ANCHORS	SIMPSON STRONG-TIE	SET-3G	ICC ESR-4057	ICC ESR-4844	ICC ESR-4844
		AT-3G FAST-CURE	ICC ESR-5026	-	-
	HILTI	HIT-RE 500 V3 SLOW CURE	ICC ESR-3814	-	-
		HIT-HY 200 V3 FAST CURE	ICC ESR-4868	-	-
		HIT-HY 200 V3	-	ICC ESR-4878	-
		HIT-HY 270		ICC ESR-4143	ICC ESR-4143
	DEWALT	PURE110+	ICC ESR-3298	-	-
		AC100+ GOLD	-	ICC ESR-3200	ICC ESR-3200

TABLE NOTES:

1. ANCHOR PRODUCT MUST HAVE AN EVALUATION REPORT LISTED TO BE USED IN THE APPLICABLE BASE MATERIAL. IF A "-" IS LISTED IN THE TABLE ABOVE, THEN THE ANCHOR PRODUCT IS NOT PERMITTED IN THAT BASE MATERIAL.
2. ANCHORS IN EXTERIOR AND CORROSIVE ENVIRONMENTS SHALL BE APPROVED BY THE MANUFACTURER FOR THE EXPOSURE.
3. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED IN THIS TABLE SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER ALONG WITH CALCULATIONS THAT ARE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE (MINIMUM) OF THE SPECIFIED PRODUCTS. THE SUBSTITUTION REQUEST SHALL INCLUDE CODE EVALUATION REPORTS STATING THAT THE PRODUCTS ARE APPROVED FOR THE INTENDED USE AND COMPLIANT WITH THE APPLICABLE BUILDING CODE. THE CALCULATIONS SHALL USE THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

REINFORCING LAP LENGTH SCHEDULE

TENSION LAP SPLICE LENGTHS, (INCHES) FOR GRADE 60 (4) UNCOATED BARS, f'c = 3,000psi; NORMAL-WEIGHT CONCRETE (5)

BAR SIZE	LAP CLASS	LAP LENGTH PER SPACING AND COVER CASE (3)					
		TOP BARS (6) CATEGORY (2)			OTHER BARS CATEGORY (2)		
		1	2	3	1	2	3
#3	A	32	22	13	25	17	12
	B	42	28	17	32	22	13
#4	A	43	29	17	33	22	13
	B	56	37	23	43	29	17
#5	A	54	36	22	41	28	17
	B	70	47	28	54	36	22
#6	A	64	43	26	50	33	20
	B	84	56	34	64	43	26
#7	A	94	63	38	72	48	29
	B	122	81	49	94	63	38
#8	A	107	72	43	82	55	33
	B	139	93	56	107	72	43
#9	A	121	81	49	93	62	38
	B	157	105	63	121	81	49
#10	A	136	91	55	105	70	42
	B	177	118	71	136	91	55
#11	A	151	101	61	116	78	47
	B	196	131	79	151	101	61

TENSION LAP SPLICE LENGTHS, (INCHES) FOR GRADE 60 (4) UNCOATED BARS, f'c = 4,000psi; NORMAL-WEIGHT CONCRETE (5)

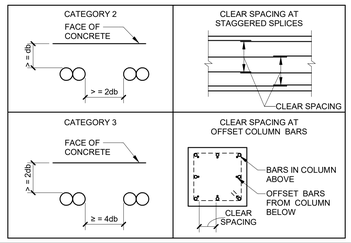
BAR SIZE	LAP CLASS	LAP LENGTH PER SPACING AND COVER CASE (3)					
		TOP BARS (6) CATEGORY (2)			OTHER BARS CATEGORY (2)		
		1	2	3	1	2	3
#3	A	28	19	12	22	15	12
	B	36	24	15	28	19	12
#4	A	37	25	15	29	19	12
	B	48	32	20	37	25	15
#5	A	47	31	19	36	24	15
	B	60	40	24	47	31	19
#6	A	56	37	22	43	29	17
	B	72	48	29	56	37	22
#7	A	81	54	33	63	42	25
	B	106	70	42	81	54	33
#8	A	93	62	37	71	48	29
	B	121	80	48	93	62	37
#9	A	105	70	42	81	54	33
	B	136	91	55	105	70	42
#10	A	118	79	47	91	61	37
	B	153	102	61	116	79	47
#11	A	131	87	53	101	67	41
	B	170	113	68	131	87	53

TENSION LAP SPLICE LENGTHS, (INCHES) FOR GRADE 60 (4) UNCOATED BARS, f'c = 5,000psi; NORMAL-WEIGHT CONCRETE (5)

BAR SIZE	LAP CLASS	LAP LENGTH PER SPACING AND COVER CASE (3)					
		TOP BARS (6) CATEGORY (2)			OTHER BARS CATEGORY (2)		
		1	2	3	1	2	3
#3	A	25	17	12	19	13	12
	B	33	22	13	25	17	12
#4	A	33	22	14	26	17	12
	B	43	29	18	33	22	14
#5	A	42	28	17	32	22	13
	B	54	36	22	42	28	17
#6	A	50	33	20	38	26	16
	B	65	43	26	50	33	20
#7	A	73	49	29	58	37	23
	B	94	63	38	73	49	29
#8	A	83	55	33	64	43	26
	B	108	72	43	83	55	33
#9	A	94	63	38	72	48	29
	B	122	81	49	94	63	38
#10	A	105	70	42	81	54	33
	B	137	91	55	105	70	42
#11	A	117	76	47	90	60	36
	B	152	101	61	117	78	47

LAP NOTES:

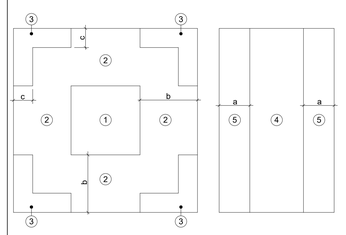
1. LAP SPLICE LENGTHS ARE BASED ON ACI 318 SECTION 25.4.2.
2. CATEGORY DEFINITIONS: (SEE ADJACENT FIGURES FOR ADDITIONAL INFORMATION)
   CATEGORY 1 - OTHER CASES - DOES NOT MEET CATEGORY 2 OR 3.
   CATEGORY 2 - CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2db AND CLEAR COVER NOT LESS THAN db.
   CATEGORY 3 - CLEAR COVER NOT LESS THAN 2db AND THE CLEAR SPACING NOT LESS THAN 4db.
3. MINIMUM LAP SPLICE SHALL NOT BE LESS THAN 12 INCHES.
4. MULTIPLY ABOVE LAP LENGTHS BY 1.53 FOR GRADE 80 REINFORCING STEEL.
5. MULTIPLY ABOVE LAP LENGTHS BY 1.3 FOR LIGHTWEIGHT CONCRETE.
6. TOP BARS ARE DEFINED AS HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT LENGTH OR SPLICE.
7. COMPRESSION LAPS FOR GR. 60 UNCOATED BARS IN NORMAL WEIGHT CONCRETE WITH A MINIMUM STRENGTH OF 3,000 PSI SHALL BE 30db. USE 46db FOR GR. 80 COMPRESSION LAP.
8. IF BARS OF DIFFERENT SIZE ARE LAP SPLICED IN TENSION, SPLICE LENGTH SHALL BE THE GREATER OF A CLASS A LAP OF THE LARGER BAR AND A CLASS B LAP OF THE SMALLER BAR.

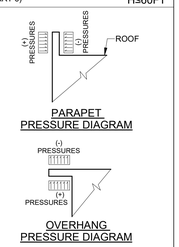


COMPONENT AND CLADDING WIND PRESSURE DIAGRAM

(PER ASCE 7-16, CHAPTER 30, PART 1 AND PART 6)

Hs60FT





PARAMETERS:
BASIC WIND SPEED: 122 MPH
RISK CATEGORY IV
a = 3'-0"
b = 6'-0"
c = 2'-0"

PRESSURE (PSF) - SEE NOTES 1 - 4

EFFECTIVE AREA (ft²) - SEE NOTE 2	ROOF ZONE				WALLS		OVERHANGS			PARAPETS	
	ZONE 1'	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5	ZONE 1'/1	ZONE 2	ZONE 3	ZONE 4	ZONE 5
≤ 10	-	+16, -50	+16, -66	+16, -90	+31, -34	+31, -42	+16, -45	+16, -61	+16, -85	+87, -56	+111, -64
20	-	+16, -47	+16, -62	+16, -81	+30, -33	+30, -39	+16, -44	+16, -55	+16, -75	+82, -53	+101, -59
50	-	+16, -42	+16, -56	+16, -70	+28, -31	+28, -35	+16, -43	+16, -48	+16, -62	+74, -49	+88, -54
100	-	+16, -39	+16, -52	+16, -62	+27, -29	+27, -33	+16, -42	+16, -42	+16, -52	+69, -46	+79, -50
200	-	+16, -36	+16, -47	+16, -53	+25, -28	+25, -30	+16, -36	+16, -37	+16, -42	+63, -43	+69, -45
≥ 500	-	+16, -31	+16, -42	+16, -42	+23, -26	+23, -26	+16, -27	+16, -29	+16, -29	+56, -40	+56, -40

1. (+) AND (-) SIGNS INDICATED PRESSURES ACTING TOWARDS AND AWAY FROM THE SURFACE, RESPECTIVELY. SEE THE PARAPET AND OVERHANG DIAGRAMS FOR PRESSURE DIRECTION ON THOSE ELEMENTS.
2. USE THE PRESSURE ASSOCIATED WITH THE CLOSEST EFFECTIVE AREA THAT DOES NOT EXCEED THE ACTUAL EFFECTIVE AREA. ALTERNATIVELY, LINEAR INTERPOLATION IS PERMITTED.
3. IF A PARAPET ≥ 3'-0" IN HEIGHT IS PROVIDED AROUND THE PERIMETER OF A FLAT ROOF:
   THE POSITIVE VALUES FOR ZONE 3 SHALL BE EQUAL TO THOSE FOR WALL ZONE 5.
   THE POSITIVE VALUES FOR ZONE 2 SHALL BE EQUAL TO THOSE FOR WALL ZONE 4.
4. THE WIND PRESSURES USED TO DESIGN ANY DEFERRED SUBMITTAL ELEMENT SHALL BE CALCULATED BY THE REGISTERED PROFESSIONAL ENGINEER DESIGNING THOSE ELEMENTS. NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

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STATE OF MISSOURI — MICHAEL CORTON — NUMBER 2015038794 — PROFESSIONAL ENGINEER — 4-18-25

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

AUTHORITY HAVING JURISDICTION'S PROJECT NO:

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	As indicated
DRAWN:	JL
REVIEWED:	JDP & KF
JOB NUMBER:	6406.24.0003

STRUCTURAL NOTES CONTINUED

S012

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)_rvt23/24237-Lee's_Summit_MC_ED_Exp-SDL23.rvt
4/18/2025 7:44:59 AM

STRUCTURAL SPECIAL INSPECTION STATEMENT

THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION AND STRUCTURAL TESTING REQUIREMENTS OF THE BUILDING CODE. IT INCLUDES A *SCHEDULE OF SPECIAL INSPECTION SERVICES* APPLICABLE TO THIS PROJECT AS WELL AS THE NAME OF THE SPECIAL INSPECTION COORDINATOR AND THE IDENTITY OF OTHER APPROVED AGENCIES TO BE RETAINED FOR CONDUCTING THESE INSPECTIONS AND TESTS. THIS STATEMENT OF SPECIAL INSPECTIONS ENCOMPASSES THE STRUCTURAL DISCIPLINE.

THE SPECIAL INSPECTION COORDINATOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITIES.

INTERIM REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. INTERIM REPORTS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN CHARGE WEEKLY.

A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS, TESTING AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.

JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

THIS STATEMENT OF SPECIAL INSPECTIONS IS NOT INTENDED TO INCORPORATE ALL ASPECTS OF THE SPECIAL INSPECTION PROGRAM AS DEFINED IN THE SPECIAL INSPECTION AND STRUCTURAL TESTING REQUIREMENTS OF THE BUILDING CODE. REFER TO OTHER DISCIPLINES FOR REMAINING SPECIAL INSPECTIONS THAT MAY BE REQUIRED.

THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR ENSURING THE SPECIAL INSPECTION PROGRAM IS CONDUCTED IN ACCORDANCE WITH THIS PLAN.

THIS STATEMENT OF SPECIAL INSPECTIONS INCLUDES THE FOLLOWING INSPECTION CATEGORIES:

- ☒ FABRICATORS
- ☒ SOILS
- ☐ DRIVEN DEEP FOUNDATIONS
- ☐ CAST-IN-PLACE DEEP FOUNDATIONS
- ☒ HELICAL PILE FOUNDATIONS
- ☐ H-PILES
- ☒ CONCRETE CONSTRUCTION
- ☐ MASONRY CONSTRUCTION - LEVEL 1
- ☐ MASONRY CONSTRUCTION - LEVEL 2
- ☐ MASONRY CONSTRUCTION - LEVEL 3
- ☒ STRUCTURAL STEEL CONSTRUCTION
- ☐ STRUCTURAL STEEL SEISMIC FORCE-RESISTING SYSTEM
- ☐ OPEN-WEB STEEL JOISTS AND JOIST GIRDERS
- ☒ COLD-FORMED STEEL DECK
- ☐ COLD-FORMED STEEL TRUSSES
- ☐ COLD-FORMED STEEL LIGHT FRAME CONSTRUCTION
- ☐ WOOD CONSTRUCTION

SPECIAL INSPECTION AGENCIES

RESPONSIBILITY	FIRM	ADDRESS AND TELEPHONE NUMBER
SPECIAL INSPECTOR	TO BE DETERMINED	-
-	-	-
-	-	-

NOTES:

1. THE INSPECTORS AND TESTING AGENCIES SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR.
2. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONAL PRIOR TO COMMENCING WORK.
3. THE MINIMUM QUALIFICATIONS OF THE SPECIAL INSPECTOR(S) AND/OR TESTING AGENCIES SHALL BE THOSE LISTED IN THE MINIMUM SPECIAL INSPECTOR QUALIFICATIONS TABLE. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR(S) AND/OR TESTING AGENCIES MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL.
4. INSPECTION OF FABRICATORS IS NOT REQUIRED WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE WITH SECTION 1704.2.5.1 OF THE BUILDING CODE.

STRUCTURAL SPECIAL INSPECTION SCHEDULE: SOILS

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY: CONTINUOUS	FREQUENCY: PERIODIC	REFERENCED STANDARD	CODE REFERENCE
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	X	-	X	-	1705.6
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	X	-	X	-	1705.6
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	X	-	X	-	1705.6
DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	X	-	-	1705.6
PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	X	-	X	-	1705.6

STRUCTURAL SPECIAL INSPECTION SCHEDULE: HELICAL PILE FOUNDATIONS

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY: CONTINUOUS	FREQUENCY: PERIODIC	REFERENCED STANDARD	CODE REFERENCE
OBSERVE INSTALLATION OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT. RECORDS SHALL INCLUDE EQUIPMENT USED, PILE DIMENSIONS, TIP ELEVATIONS, FINAL DEPTH, FINAL INSTALLATION TORQUE, AND OTHER INFORMATION REQUIRED BY PERTINENT INSTALLATION DATA AS REQUIRED BY HELICAL PILE DESIGNER.	X	X	-	-	1705.9

STRUCTURAL SPECIAL INSPECTION SCHEDULE: FABRICATORS

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY: CONTINUOUS	FREQUENCY: PERIODIC	REFERENCED STANDARD	CODE REFERENCE
VERIFY FABRICATION AND IMPLEMENTATION PROCEDURES					
STEEL CONSTRUCTION	X	-	X	-	1705.2
CONCRETE CONSTRUCTION (REBAR FABRICATION)	X	-	X	-	1705.3
WOOD CONSTRUCTION	-	-	X	-	1705.5
COLD FORM METAL CONSTRUCTION	-	-	X	-	1705.2
OTHER CONSTRUCTION	-	-	X	-	1705.1.1

STRUCTURAL SPECIAL INSPECTION SCHEDULE: CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY: CONTINUOUS	FREQUENCY: PERIODIC	REFERENCED STANDARD	CODE REFERENCE
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	X	-	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	-
REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND c. INSPECT ALL OTHER WELDS.	-	- - X	X X -	AWS D1.4 ACI 318: 26.6.4	-
INSPECT ANCHORS CAST IN CONCRETE	X	-	X	ACI 318: 17.8.2	-
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN a.	X	X -	- X	ICC-ES/IAPMO REPORTS ACI 318: 17.8.2.4 ACI 318: 17.8.2	-
VERIFY USE OF REQUIRED DESIGN MIX.	X	-	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2,
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	X	-	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	-
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	X	-	ACI 318: 26.5	-
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	X	-	X	ACI 318: 26.5.3-26.5.5	-
INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES; AND b. GROUTING OF BONDED PRESTRESSING TENDONS.	X X	X X	- -	ACI 318: 26.10	-
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	-	X	ACI 318: 26.9	-
VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	X	-	X	ACI 318: 26.11.2	-
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	X	-	X	ACI 318: 26.11.1.2(b)	-
FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD FOR: a. INSTALLATION OF EMBEDDED PARTS b. COMPLETION OF THE CONTINUITY OR REINFORCEMENT ACROSS JOINTS. c. COMPLETION OF CONNECTIONS IN THE FIELD.	 X X X	 X X X	 - - -	ACI 318: 26.13.1.3 ACI 550.5	-
INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5	X	-	X	ACI 318: 26.10	-

STRUCTURAL SPECIAL INSPECTION SCHEDULE: COLD-FORMED STEEL DECK

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	QC	QA	SDI REFERENCE
INSPECTION OR EXECUTION TASK PRIOR TO DECK PLACEMENT				
VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS	X	P	P	SDI QA/QC TABLE 1.1
DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	X	P	P	
INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT				
VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS	X	P	P	SDI QA/QC TABLE 1.2
VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	X	-	P	
DOCUMENTS ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	X	P	P	
INSPECTION OR EXECUTION TASKS PRIOR TO WELDING				
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	X	O	O	SDI QA/QC TABLE 1.3
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	X	O	O	
MATERIAL IDENTIFICATION (TYPE/GRADE)	X	O	O	
CHECK WELDING EQUIPMENT	X	O	O	
INSPECTION OR EXECUTION TASKS DURING WELDING				
USE OF QUALIFIED WELDERS	X	O	O	SDI QA/QC TABLE 1.4
CONTROL AND HANDLING OF WELDING CONSUMABLES	X	O	O	
ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)	X	O	O	
WPS FOLLOWED	X	O	O	
INSPECTION OR EXECUTION TASKS AFTER WELDING				
VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS	X	P	P	SDI QA/QC TABLE 1.5
WELDS MEET VISUAL ACCEPTANCE CRITERIA	X	P	P	
VERIFY REPAIR ACTIVITIES	X	P	P	
DOCUMENT ACCEPTANCE OR REJECTION	X	P	P	
INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING				
MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	X	O	O	SDI QA/QC TABLE 1.6
PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	X	O	O	
PROPER STORAGE FOR MECHANICAL FASTENERS	X	O	O	
INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING				
FASTENERS ARE POSITIONED AS REQUIRED	X	O	O	SDI QA/QC TABLE 1.7
FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	X	O	O	
INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING				
CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS	X	P	P	SDI QA/QC TABLE 1.8
CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS	X	P	P	
CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	X	P	P	
VERIFY REPAIR ACTIVITIES	X	P	P	
DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	X	P	P	

STRUCTURAL SPECIAL INSPECTION SCHEDULE: STRUCTURAL STEEL CONSTRUCTION

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	QC	QA	AISC REFERENCE
INSPECTION TASKS PRIOR TO WELDING				
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	X	P	O	AISC 360 N5.4-1
WPS AVAILABLE	X	P	P	
MATERIAL CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	X	P	P	
MATERIAL IDENTIFICATION (TYPE / GRADE)	X	O	O	
WELDER IDENTIFICATION SYSTEM	X	O	O	
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	X	O	O	
FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	X	P	O	
CONFIGURATION AND FINISH OF ACCESS HOLES	X	O	O	
FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	X	O	O	
CHECK WELDING EQUIPMENT	X	O	-	
INSPECTION TASKS DURING TO WELDING				
CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	X	O	O	AISC 360, N5.4-2
NO WELDING OVER CRACKED TACK WELDS	X	O	O	
ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	X	O	O	
WPS FOLLOWED • SETTING OF WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE / FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN. / MAX.) • PROPER POSITION (F, V, H, OH)	X	O	O	
WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	X	O	O	
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	X	P	P	
INSPECTION TASKS AFTER WELDING				
WELDS CLEANED	X	O	O	AISC 360, N5.4-3
SIZE, LENGTH AND LOCATION OF WELDS	X	P	P	
WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD / BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	X	P	P	
ARC STRIKES	X	P	P	
k-AREA - WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3 in. OF THE WELD	X	P	P	
VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS AFTER WELDING ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES	X	P	P	
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	X	P	P	
REPAIR ACTIVITIES	X	P	P	
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	X	P	P	
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER	X	O	O	
NONDESTRUCTIVE TESTING OF WELDED JOINTS				
STRUCTURES IN RISK CATEGORY III OR IV; UT ALL COMPLETE-JOINT-PENETRATION (CJP) WELDS IN MATERIALS 5/16" OR THICKER.	X	P	P	AISC 360, N5.5
STRUCTURES IN RISK CATEGORY II, UT ALL COMPLETE-JOINT-PENETRATION (CJP) WELDS IN MATERIALS 5/16" OR THICKER.	X	P	P	
INSPECTION TASKS PRIOR TO BOLTING				
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	X	O	P	AISC 360, N5.6
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	X	O	O	
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	X	O	O	
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	X	O	O	
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	X	O	O	
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	X	P	O	
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	X	O	O	
INSPECTION TASKS DURING BOLTING				
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	X	O	O	AISC 360, N5.6
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	X	O	O	
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	X	O	O	
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC *SPECIFICATION*, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	X	O	O	
INSPECTION TASKS AFTER BOLTING				
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	X	P	P	AISC 360, N5.6

MINIMUM SPECIAL INSPECTOR QUALIFICATIONS

CATEGORY OF TESTING AND INSPECTION	MINIMUM QUALIFICATIONS (REFER TO KEY AT END OF TABLE): SHOP TESTING OR INSPECTION	FIELD TESTING OR INSPECTION	REVIEW TESTING, CERTIFICATION & LAB REPORTS
1704.2.5 INSPECTION OF FABRICATORS			
PRE-CAST CONCRETE CONSTRUCTION	A, C, E	-	-
STRUCTURAL STEEL CONSTRUCTION	C, F, G	-	-
WOOD CONSTRUCTION	A	-	-
COLD FORMED METAL CONSTRUCTION	A	-	-
1705.2, 1705.11, 1705.12, & 1705.13 STEEL CONSTRUCTION			
VERIFICATION OF WELDING CONSUMABLES, FILLER METALS, PROCEDURE SPECIFICATIONS, PROCEDURE QUALIFICATION RECORDS, AND PERSONNEL PERFORMANCE QUALIFICATION RECORDS	-	-	C, F
NONDESTRUCTIVE TESTING OF WELDING	G	G	-
INSPECTION OF WELDING	C, F	C, F	-
VERIFICATION OF FABRICATOR AND ERECTOR DOCUMENTS AS LISTED IN AISC 360, CHAPTER N, PARAGRAPH 3.2	-	-	A, C
MATERIAL VERIFICATION OF WELD FILLER MATERIALS	-	-	C, F
INSPECTION OF HIGH STRENGTH BOLTING AND STEEL FRAME JOINT DETAILS	-	A, C	-
INSPECTION OF EMBEDMENT	-	A, C, F	-
INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION	-	A, C, F	-
VERIFICATION OF REINFORCING STEEL, COLD FORMED STEEL DECK AND TRUSS MATERIALS	-	-	A, C, F
INSPECTION OF REINFORCING STEEL, COLD FORMED STEEL DECK AND TRUSSES	-	A, C	-
1705.3 & 1705.13 CONCRETE CONSTRUCTION			
REINFORCING PLACEMENT, CAST-IN-PLACE BOLTS, POST INSTALLED ANCHORS CONCRETE AND SHOTCRETE PLACEMENT AND CURING OPERATIONS. INSPECTION OF FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS	-	A, C, H	-
PRE-STRESSING STEEL INSTALLATION	-	A, C, D, E	-
ERECTION OF PRE-CAST CONCRETE MEMBERS	-	A, C, H	-
CONCRETE FIELD SAMPLING AND TESTING	-	A, J	-
CONCRETE STRENGTH TESTING	-	M	-
REVIEW CERTIFIED MILL REPORTS	-	-	A, C
VERIFY USE OF REQUIRED DESIGN MIX	-	A, I, J, H, C	-
PRE-STRESSED (PRE-TENSIONED) CONCRETE FORCE APPLICATION	A, C, E	-	-
POST-TENSIONED CONCRETE FORCE APPLICATION	-	A, C, D	-
REVIEW OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	-	A, C, D, H	-
REINFORCING STEEL WELDABILITY, REINFORCING WELDING, WELD FILLER MATERIAL	-	C, F	-
TESTING OF WELDING OF REINFORCING STEEL	-	G	-
1705.4 MASONRY CONSTRUCTION			
VERIFICATION OF f'_m AND f_{AGC}	-	A, C, K	-
MORTAR JOINT CONSTRUCTION, GROUT PROTECTION AND PLACEMENT, MATERIALS PROPORTION, TYPE/SIZE/LOCATION OF REINFORCEMENT, STRUCTURAL ELEMENTS, ANCHORAGE, AND CONNECTORS	-	A, C	-
SAMPLING/TESTING OF GROUT/MORTAR SPECIMENS	-	A, C, K	-
OBSERVE PREPARATION OF MASONRY PRISMS FOR TESTING OF COMPRESSIVE STRENGTH OF MASONRY, f'_m AND f_{AGC}	-	A, C, K	-
INSPECTION OF WELDING OF REINFORCING STEEL	-	C, F	-
TESTING OF WELDING OF REINFORCING STEEL	-	G	-
1705.6 & 1804 SOILS			
OBSERVE SITE PREPARATION, FILL PLACEMENT TESTING OF COMPACTION FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS FOR THE PROJECT	-	A, C, I, L	-
OBSERVE TEST BEARING MATERIALS BELOW SHALLOW FOUNDATIONS FOR ABILITY TO ACHIEVE DESIGN BEARING CAPACITY	-	A, C, L, I (LEVEL III)	-
REVIEW COMPACTION TESTING FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS FOR THE PROJECT	-	-	A
1705.5, 1705.10, 1705.12, & 1705.13 WOOD CONSTRUCTION			
OBSERVE STRUCTURAL PANEL SHEATHING, SIZE OF FRAMING MEMBERS, NAIL OR STAPLE DIAMETER AND LENGTH, NUMBER OF FASTENER LINES, AND SPACING OF FASTENER LINES AND FASTENERS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS FOR THE PROJECT	-	A	-
OBSERVE TEMPORARY AND PERMANENT TRUSS MEMBER RESTRAINT/BRACING, FIELD GLUING OF ELEMENTS. OBSERVE BOLTING, ANCHORING OR OTHER FASTENING OF: SHEAR WALLS, DIAPHRAGMS, DRAG STRUTS, BRACES AND HOLD-DOWNS	-	A	-
1705.7, 1705.8, 1705.9 & 1810 PILE AND PIER FOUNDATIONS			
OBSERVE INSTALLATION	-	A, L	-
OBSERVE LOAD TESTS	-	A	-
1705.1 SPECIAL CASES			
WORK OF UNUSUAL OR SPECIAL NATURE	-	A, N	-

KEY:
A. LICENSED PROFESSIONAL ENGINEER COMPETENT IN THE SPECIFIC TASK AREA.
B. REGISTERED ARCHITECT COMPETENT IN THE SPECIFIC TASK AREA.
C. ICC SPECIAL INSPECTOR CERTIFICATION SPECIFIC TO THE MATERIAL AND TESTING METHODOLOGY AS APPLICABLE.
D. PTI CERTIFICATION, LEVEL 2, BONDED OR UNBONDED AS APPLICABLE
E. PCI CERTIFIED INSPECTOR
F. AWS-CWI CERTIFIED WELDING INSPECTOR
G. ASNT NON-DESTRUCTIVE TESTING TECHNICIAN - LEVEL II OR III.
H. ACI CONCRETE CONSTRUCTION SPECIAL INSPECTOR
I. NICET TECHNICIAN - LEVELS II OR HIGHER SPECIFIC TO THE MATERIAL AND TESTING METHODOLOGY AS APPLICABLE.
J. ACI CONCRETE FIELD TESTING TECHNICIAN w/GRADE 1 CERTIFICATION.
K. NCMA CONCRETE MASONRY TESTING PROCEDURES CERTIFICATION
L. NICET CERTIFIED ENGINEERING TECHNOLOGISTS (CT).
M. ACI STRENGTH TESTING TECHNICIAN
N. OTHER QUALIFIED SPECIAL INSPECTOR AS APPROVED BY THE BUILDING OFFICIAL AND STRUCTURAL ENGINEER

ORGANIZATION ABBREVIATIONS:
ACI - AMERICAN CONCRETE INSTITUTE
AWS - AMERICAN WELDING SOCIETY
ASNT - AMERICAN SOCIETY OF NON-DESTRUCTIVE TESTING
ICC - INTERNATIONAL CODE COUNCIL
NCMA - NATIONAL CONCRETE MASONRY ASSOCIATION
NICET - NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES
PTI - POST-TENSIONING INSTITUTE
PCI - PRECAST/PRESTRESSED CONCRETE INSTITUTE

NOTES:
1. THE SPECIAL INSPECTOR SHALL MEET ONE OF THE MINIMUM QUALIFICATIONS LISTED FOR THE APPLICABLE CATEGORY OF TESTING AND INSPECTION SUBJECT TO APPROVAL OF THE BUILDING OFFICIAL.
2. MATERIALS TESTING SHALL BE DONE BY AN APPROVED TESTING AGENCY MEETING THE REQUIREMENTS OF IBC SECTION 1703 AND ASTM E 329.

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615 320 1735
Project No. 24237.00

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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

AUTHORITY HAVING JURISDICTION'S PROJECT NO:

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

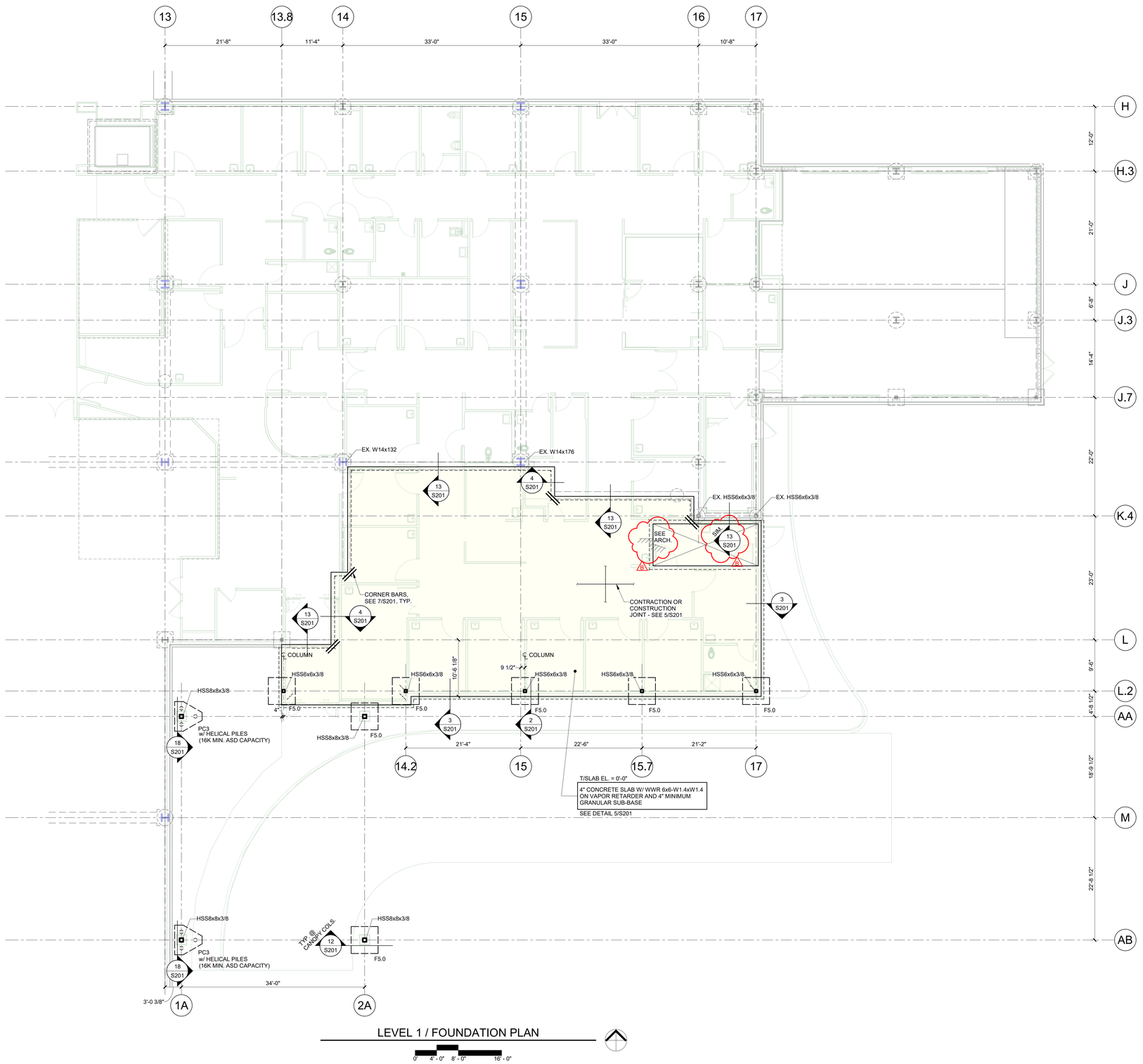
REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	12" = 1'-0"
DRAWN:	JL
REVIEWED:	JDP & KF
JOB NUMBER:	6406.24.0003

SPECIAL INSPECTIONS AND WIND PRESSURES DIAGRAM

S021

4/18/2025 7:45:02 AM Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/24237-Lee's_Summit_MC_ED_Exp-SDL23.rvt



LEVEL 1 / FOUNDATION PLAN

0' 4'- 0" 8' - 0" 16' - 0"

SHEET NOTES:

1. REFERENCE ELEVATON 0'-0" = 1006.28' (REFER TO CIVIL DRAWINGS).
2. TOP OF FOUNDATION ELEVATIONS ARE 2'-6" BELOW FINISHED FLOOR ELEVATION UNLESS NOTED OTHERWISE.
3. FOUNDATION ELEMENTS ARE CENTERED UNDER COLUMNS UNLESS NOTED OTHERWISE.
4. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
5. REFER TO ARCHITECTURAL DRAWINGS FOR EDGE OF SLAB DIMENSIONS.
6. COORDINATE ALL SLAB DEPRESSIONS WITH MEP AND ARCHITECTURAL DRAWINGS.
7. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS RELATED TO THE NEW STRUCTURE PRIOR TO FABRICATION AND CONSTRUCTION. NOTIFY ARCHITECT/STRUCTURAL ENGINEER OF ANY DISCREPANCIES.
8. SHEET AND TYPICAL DETAIL REFERENCES:

S0 SERIES	STRUCTURAL NOTES
1/S201	FOOTING SCHEDULE
17/S201	PILE CAPS
S201	SLAB ON GROUND

MARK AND LEGEND KEY:

F#.#	FOOTING
PC#	PILE CAP

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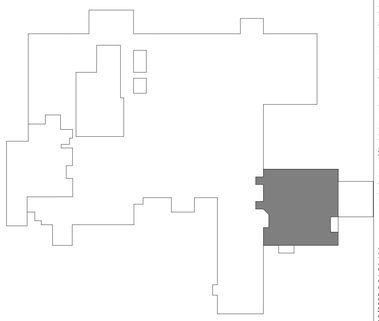
FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN CORDINATION	2025/06/05



DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	JL
REVIEWED:	JDP & KF
JOB NUMBER:	6406.24.0003

LEVEL 1 / FOUNDATION PLAN

S101

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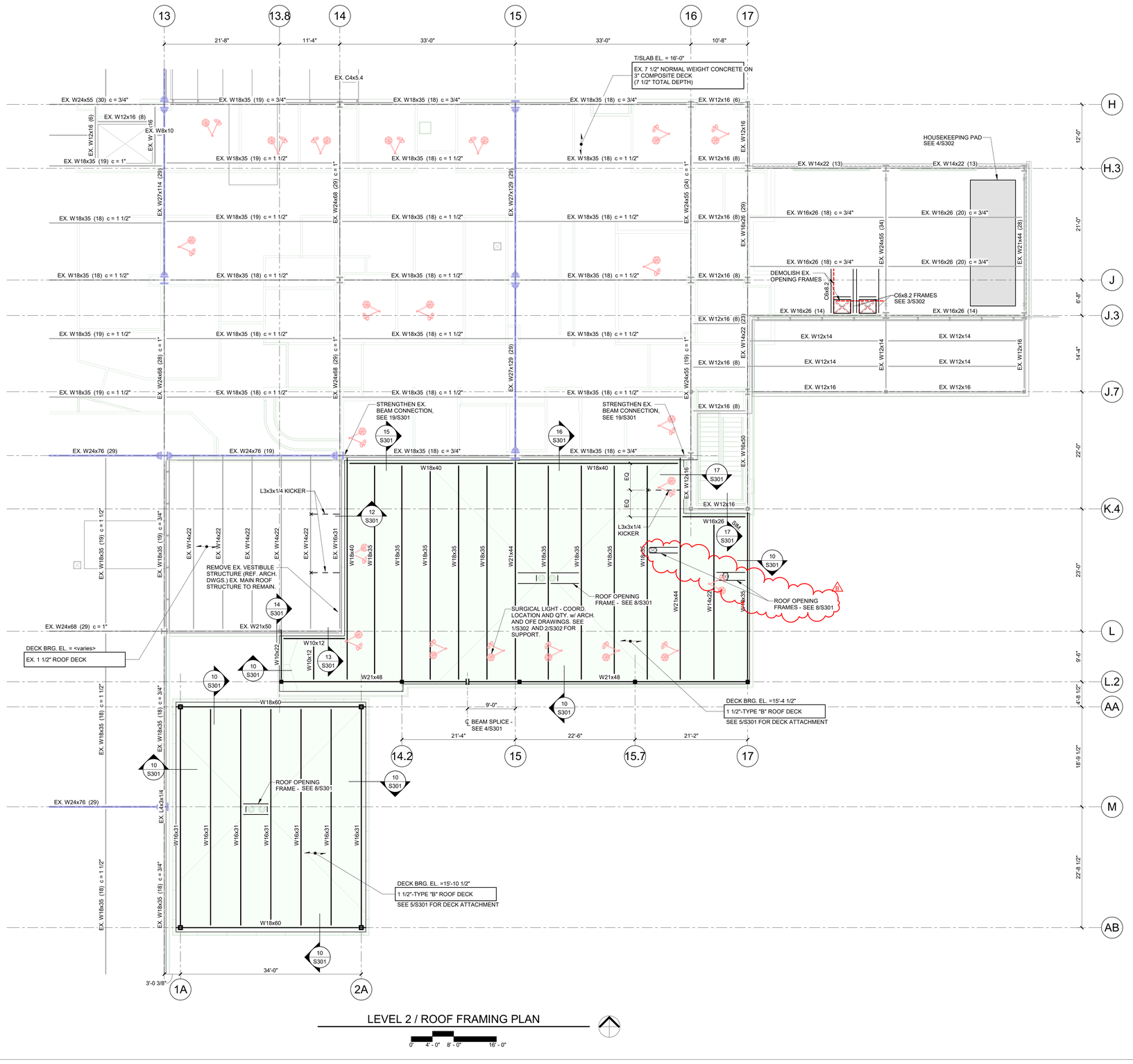


LEVEL 2 / ROOF FRAMING PLAN

0" 4' - 0" 8' - 0" 16' - 0"

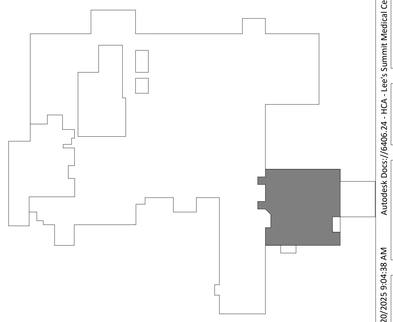
SHEET NOTES:

1. ALL BEAMS SHALL BE SPACED EQUALLY IN COLUMN BAYS, UNLESS NOTED OTHERWISE.
2. EDGE OF SLAB/BENT PLATE IS LOCATED 6" OFF OF BEAM CENTERLINES AT INTERIOR OPENINGS, UNLESS NOTED OTHERWISE.
3. REFER TO FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EDGE OF BENT PLATE DIMENSIONS.
5. COORDINATE ALL SLAB OPENINGS AND DEPRESSIONS WITH MEP AND ARCHITECTURAL DRAWINGS.
6. WEIGHTS SHOWN FOR MECHANICAL EQUIPMENT ARE MAXIMUMS. NOTIFY STRUCTURAL ENGINEER IF ACTUAL WEIGHTS EXCEED THE VALUES GIVEN.
7. COORDINATE THE LOCATION OF FRAMING SUPPORTING MECHANICAL EQUIPMENT WITH THE EQUIPMENT SUPPLIER. NOTIFY STRUCTURAL ENGINEER IF EQUIPMENT SUPPORT REQUIREMENTS DIFFER FROM WHAT IS SHOWN IN THE STRUCTURAL DOCUMENTS.
8. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS RELATED TO THE NEW STRUCTURE PRIOR TO FABRICATION AND CONSTRUCTION.
9. SHEET AND TYPICAL DETAIL REFERENCES:
   S0 SERIES STRUCTURAL NOTES
   3/S301 WELD THROUGH MOMENT CONNECTIONS
   S301 FRAMING SECTIONS AND DETAILS
10. MARK AND LEGEND KEY:
    WELD THROUGH MOMENT CONNECTION
11. ULTIMATE (LRFD) REACTIONS FOR STEEL BEAMS SUPPORTING NON-COMPOSITE DECK SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

SIZE	REACTION	SIZE	REACTION	SIZE	REACTION
W8	12 KIPS	W16	30 KIPS	W24	48 KIPS
W10	12 KIPS	W18	30 KIPS	W27	66 KIPS
W12	12 KIPS	W21	48 KIPS	W30	66 KIPS
W14	30 KIPS				

12. STEEL BEAM SCHEDULE:

MARK	SIZE	ULTIMATE (LRFD) REACTION
B1	W8x10	12 KIPS
B2	W10x12	12 KIPS
B3	W12x14	12 KIPS
C1	C8X11.5	12 KIPS



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615 320 1735

Project No. 24237.00

STATE OF MISSOURI
MICHAEL J. OSTRIN
NUMBER A-2007036
PROFESSIONAL ENGINEER
6.25

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ED EXPANSION

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2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
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MISSOURI DHSS

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AGENCY

REVISIONS		
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REVIEWED:	JDP & KF
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LEVEL 2 / ROOF FRAMING PLAN

S102

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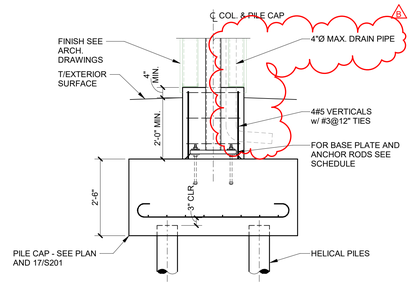
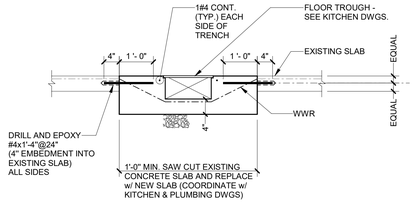
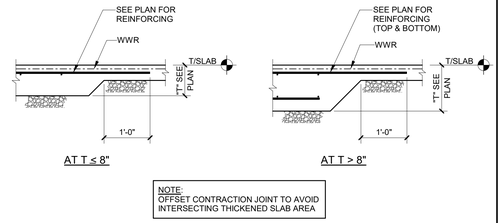


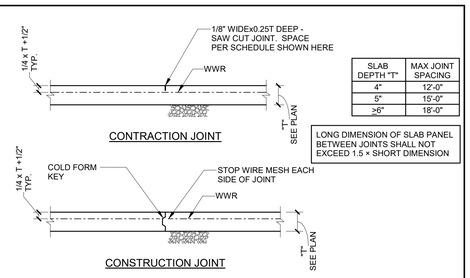
18 SECTION AT PILE CAP



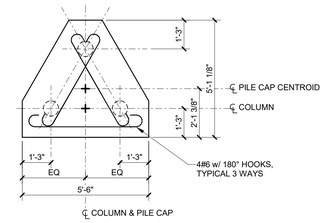
14 TYPICAL SECTION THROUGH NEW FLOOR TRENCH DUCT (AT EXISTING SLAB)



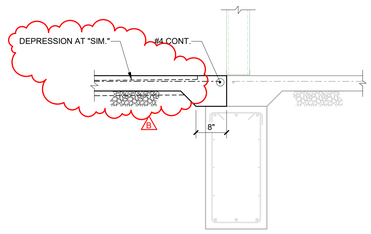
9 TYPICAL THICKENED SLAB ON GROUND DETAILS



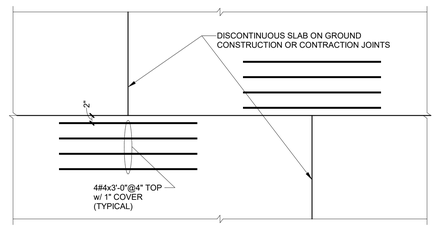
5 TYPICAL SLAB ON GROUND DETAILS



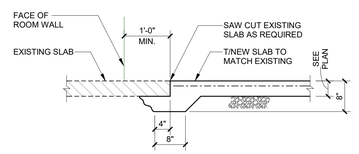
17 PILE CAP TYPE "PC3"



13 SECTION AT EXISTING



8 TYP. REINFORCING AT DISCONTINUOUS JOINTS

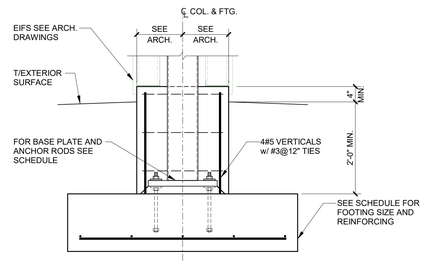


4 TYPICAL NEW SLAB SECTION AT EXISTING SLAB

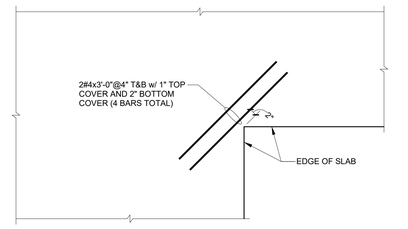
ANCHOR ROD DIAMETER (INCHES)	MAXIMUM HOLE DIAMETER (INCHES)	MINIMUM WASHER WIDTH (INCHES) NOTE 1	MINIMUM WASHER THICKNESS (INCHES)	BASE PLATE GROUT (INCHES)	WELD, "Y" WASHER TO BASE PLATE (INCHES)
3/4	1 5/16	2	1/4	2	3/16, NOTE 2
7/8	1 9/16	2 1/2	5/16	2	3/16, NOTE 2
1	1 7/8	3	3/8	2	3/16, NOTE 2
1 1/4	2 1/8	3 1/2	1/2	3	3/16
1 1/2	2 3/8	4	1/2	3	3/16
1 3/4	2 7/8	4 1/2	5/8	4	1/4
2	3 1/4	5	3/4	4	5/16
2 1/2	3 3/4	5 1/2	7/8	4	5/16

NOTES:
1. PROVIDE SQUARE PLATE WASHERS CONFORMING TO ASTM A36 WITH STANDARD HOLES.
2. WELDS ARE NOT REQUIRED FOR GRAVITY COLUMNS.

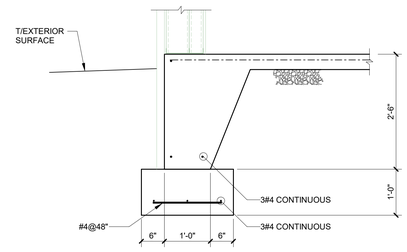
16 PLATE WASHER & GROUT THICKNESS SCHEDULE



12 SECTION AT CANOPY COLUMN

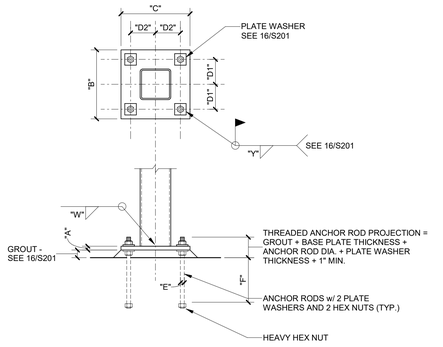


7 TYPICAL REINFORCING AT SLAB ON GROUND RE-ENTRANT CORNERS



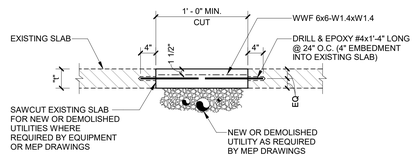
3 TYPICAL TURNED DOWN SLAB

BASE PLATE & ANCHOR ROD SCHEDULE									
COLUMN SIZE	BASE PLATE					ANCHOR RODS			WELD
	A	B	C	D1	D2	E	F	№	W
HSS6x6	1"	15"	15"	5 1/2"	5 1/2"	3/4"	12"	4	1/4"
HSS8x8	1 1/4"	18"	18"	6 1/2"	6 1/2"	1"	12"	4	5/16"

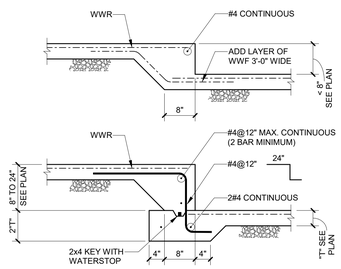


15 BASE PLATE AND ANCHOR ROD SCHEDULE

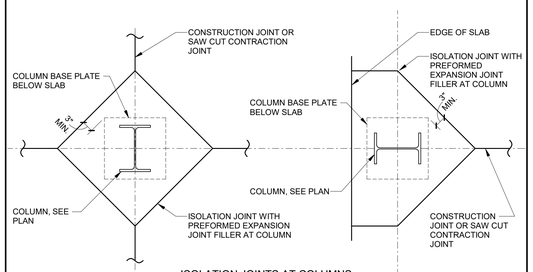
NOTE:
FOR USE IN RENOVATION AREAS. SEE MEP DRAWINGS FOR LOCATIONS OF NEW OR DEMOLISHED UTILITIES.



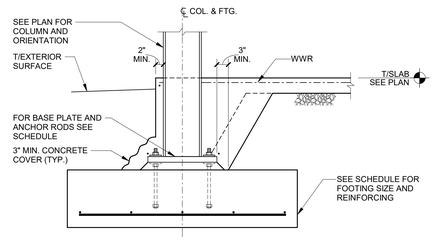
11 SECTION AT NEW/DEMOLISHED UTILITIES AT EXISTING SLAB



10 TYP. DEPRESSED SLAB ON GROUND DETAILS



6 TYPICAL SLAB ON GROUND JOINT DETAILS AT STEEL COLUMNS



2 TYPICAL EXTERIOR COLUMN FOOTING DETAIL

FOOTING SCHEDULE						
MARK	LENGTH	WIDTH	THICKNESS	TOP REINFORCEMENT	BOTTOM REINFORCEMENT	REMARKS
F5.0	5'-0"	5'-0"	1'-6"		4#7 E.W.	

1 FOOTING SCHEDULE

Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

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Consultant:

Stanley D. Lindsey and Associates, Ltd. — 1966 SDL

Structural Engineers
750 Old Hickory Blvd.
Building 1, Suite 175
Brentwood, TN 37027

www.sdlal.com

615 320 1735

Project No. 24237.00

STATE OF MISSOURI — MICHAEL JOSEPH DEVRIES — NUMBER 2010038796 — PROFESSIONAL ENGINEER — 6.9.25

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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

AUTHORITY HAVING JURISDICTION'S PROJECT NO:

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN CORDINATION	2025/06/05

DATE:	04/18/25
SCALE:	As indicated
DRAWN:	JL
REVIEWED:	JDP & KF
JOB NUMBER:	6406.24.0003

FOUNDATION AND SLAB ON GROUND SECTIONS AND DETAILS

S201

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)_rvt23/24237-Lee's_Summit_MC_ED_Exp-SD1.23.rvt

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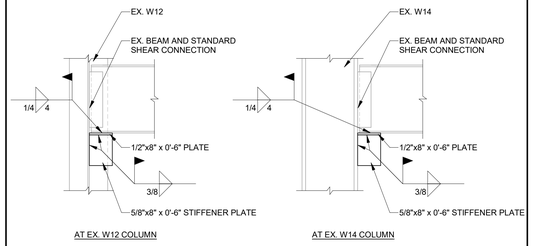
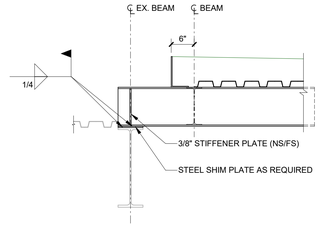
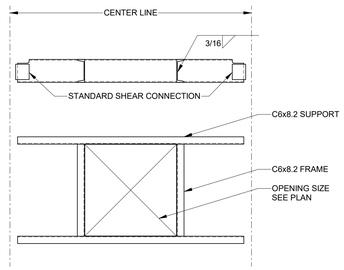


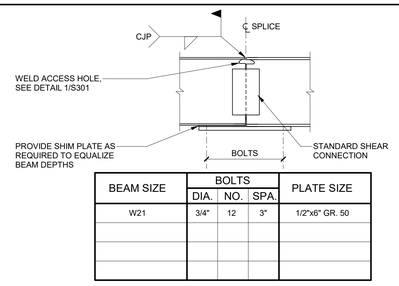
19 EX. BEAM CONNECTION REINFORCING



14 SECTION AT EXISTING ROOF

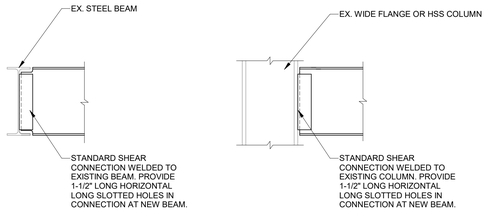


9 TYPICAL ROOF OPENING FRAME (OPENINGS GREATER THAN 30")

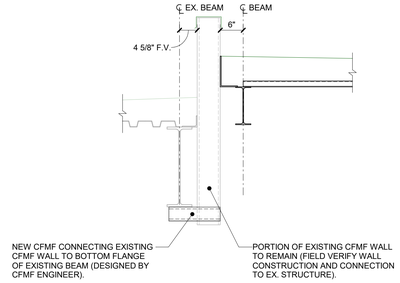


BEAM SIZE	BOLTS			PLATE SIZE
	DIA.	NO.	SPA.	
W21	3/4"	12	3"	1/2"x6" GR. 50

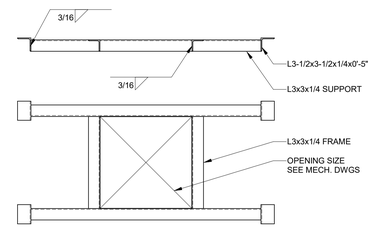
4 TYPICAL WELDED/BOLTED MOMENT SPLICE



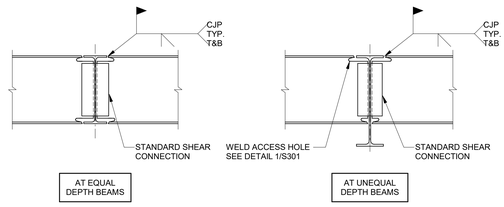
18 TYP. SECTION AT NEW BEAM TO EXISTING



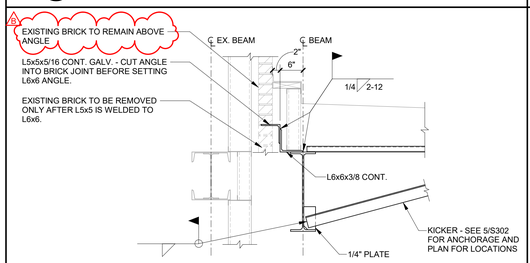
13 SECTION AT EXISTING ROOF



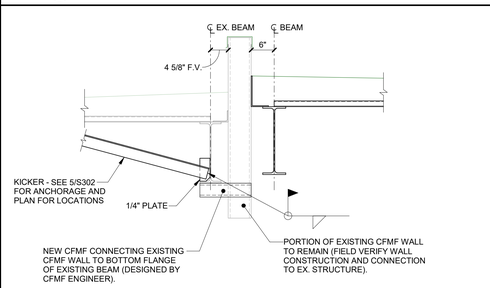
8 TYPICAL ROOF OPENING FRAME (OPENINGS LESS THAN 30")



3 TYPICAL MOMENT CONNECTION DETAILS

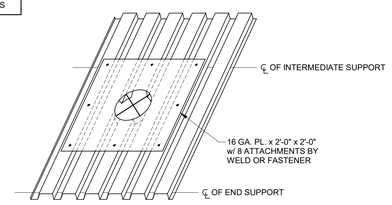


17 SECTION AT STAIR



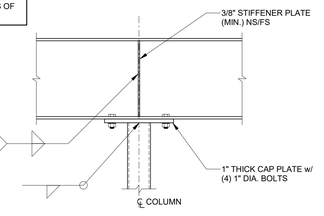
12 SECTION AT EXISTING ROOF

NOTE:
PLATE IS NOT REQUIRED FOR OPENINGS WITH 6" DIAMETER OR LESS

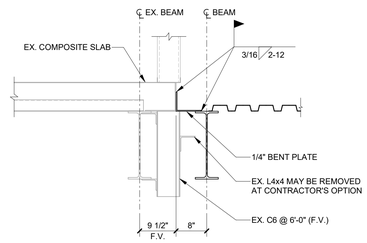


7 TYPICAL ROOF DECK OPENING (LESS THAN 14" DIAMETER)

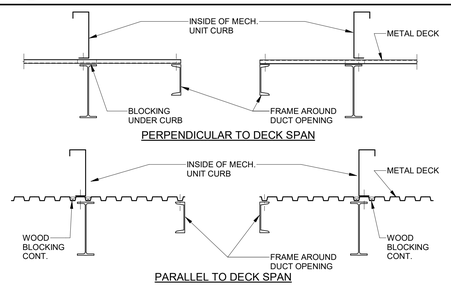
NOTE:
SEE 6/S302 FOR CONDITIONS WHERE BOLTS ON BOTH SIDES OF COLUMN ARE NOT POSSIBLE.



2 TYPICAL BEAM TO COLUMN CONNECTION CONTINUOUS/CANTILEVERED BEAMS



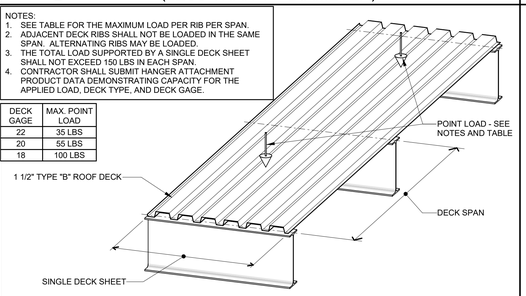
16 SECTION AT EXISTING FLOOR SLAB



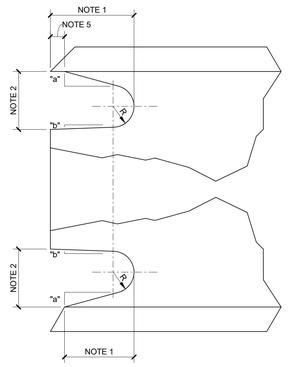
11 MECHANICAL UNIT CURB MOUNTING DETAIL

NOTES:
1. SEE TABLE FOR THE MAXIMUM LOAD PER RIB PER SPAN.
2. ADJACENT DECK RIBS SHALL NOT BE LOADED IN THE SAME SPAN. ALTERNATING RIBS MAY BE LOADED.
3. THE TOTAL LOAD SUPPORTED BY A SINGLE DECK SHEET SHALL NOT EXCEED 150 LBS IN EACH SPAN.
4. CONTRACTOR SHALL SUBMIT HANGER ATTACHMENT PRODUCT DATA DEMONSTRATING CAPACITY FOR THE APPLIED LOAD, DECK TYPE, AND DECK GAGE.

DECK GAGE	MAX. POINT LOAD
22	35 LBS
20	55 LBS
18	100 LBS

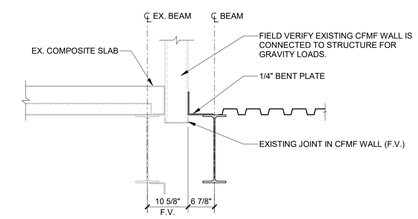


6 TYP. ROOF DECK POINT LOAD RESTRICTIONS (1 1/2" TYPE "B" ROOF DECK)

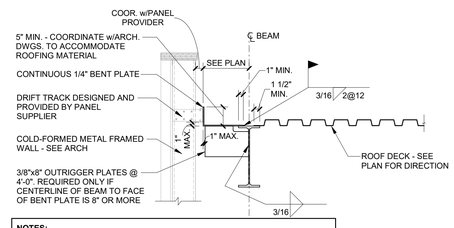


NOTES:
1. LENGTH: GREATER OF 1.5tw OR 1 1/2".
2. HEIGHT: GREATER OF 1.0tw OR 1" BUT NEED NOT EXCEED 2".
3. R = 3/8" MIN. GRIND THE THERMALLY CUT SURFACES OF WELD ACCESS HOLES IN HEAVY SHAPES AS DEFINED IN AISC 360-10 SECTIONS A3.1(c) AND (d)
4. SLOPE "a" FORMS A TRANSITION FORM THE WEB TO THE FLANGE. SLOPE "b" MAY BE HORIZONTAL.
5. THE BOTTOM OF THE TOP FLANGE IS TO BE CONTOURED TO PERMIT THE TIGHT FIT BACKING BARS WHERE THEY ARE TO BE USED.
6. THE WEB-TO FLANGE WELD OF BUILT UP MEMBERS IS TO BE HELD BACK A DISTANCE OF AT LEAST THE WELD SIZE FORM THE EDGE OF THE ACCESS HOLE.

1 TYPICAL WELD ACCESS HOLE DETAIL

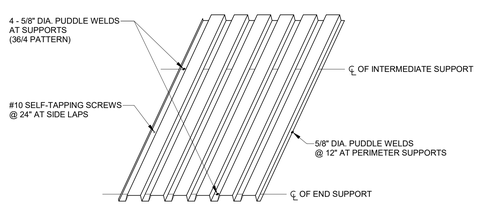


15 SECTION AT EXISTING FLOOR SLAB



NOTES:
1. WALL FRAMING AND ITS CONNECTION TO THE STRUCTURE TO BE DESIGNED BY THE SUPPLIER.
2. COORDINATE BENT PLATE ERECTION TOLERANCES WITH WALL PANEL SUPPLIER.

10 TYPICAL SECTION AT ROOF



5 TYPICAL ROOF DECK ATTACHMENT (1 1/2" TYPE "B" ROOF DECK)

Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

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Consultant:

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Project No. 24237.00

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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

AUTHORITY HAVING JURISDICTION'S PROJECT NO:

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN CORDINATION	2025/06/05

DATE:	04/18/25
SCALE:	As indicated
DRAWN:	JL
REVIEWED:	JDP & KF
JOB NUMBER:	6406.24.0003

STEEL & ROOF FRAMING SECTIONS AND DETAILS

S301

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Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/24237-Lee's_Summit_MC_ED_Exp-SD.23.rvt

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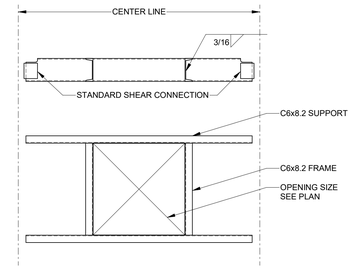
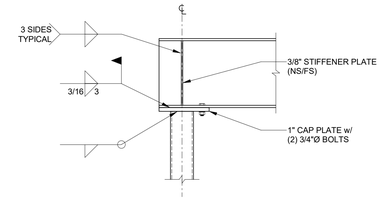
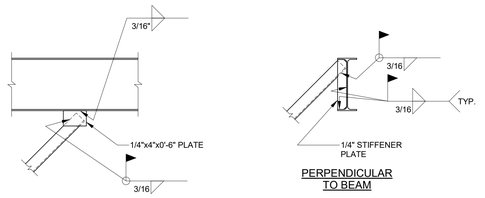


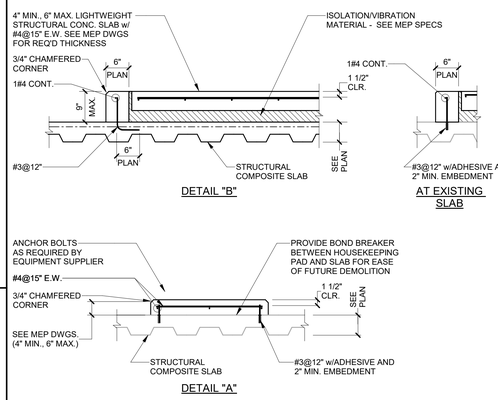
3 TYPICAL FLOOR OPENING FRAME



6 TYPICAL BEAM TO HSS COLUMN CONNECTION (CONTINUOUS/CANTILEVERED BEAMS)



5 TYPICAL KICKER ANCHORAGE AT BEAMS



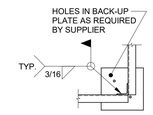
NOTES:

1. THE CONTRACTOR SHALL PROVIDE CONCRETE PADS ADEQUATE FOR THE SUPPORT OF THE MEP EQUIPMENT. THE THICKNESS OF MECHANICAL EQUIPMENT PADS SHALL BE COORDINATED WITH THE ARCHITECTURAL AND MEP DRAWINGS.
2. EXACT SIZES, LOCATIONS, HEIGHTS, AND ANY SPECIAL DETAILS FOR THE PADS SHALL BE OBTAINED FROM THE VENDORS BEFORE INSTALLATION OF THE PADS.
3. ALL EMBEDDED ITEMS SHALL BE COORDINATED WITH THE EQUIPMENT SUPPLIER.
4. USE DETAIL "B" ONLY UNDER EQUIPMENT SUPPORTED ON FLOATING SLABS. SEE MEP DRAWINGS FOR LOCATIONS.

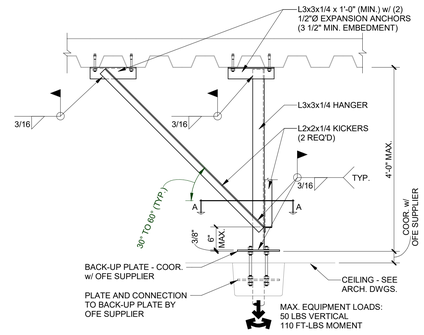
4 EQUIPMENT PAD AND CURB DETAILS

NOTES:

1. UNISTRUT MAY BE SUBMITTED AS AN ALTERNATE TO STRUCTURAL STEEL. THE UNISTRUT SUPPORT SHALL BE DESIGNED BY THE UNISTRUT SUPPLIER AND SUBMITTED AS A SUBSTITUTION REQUEST.
2. THE BACK-UP PLATE MAY BE OMITTED AND REPLACED WITH AN ANCHOR PLATE PROVIDED BY THE OFE SUPPLIER. CONTRACTOR SHALL COORDINATE WITH THE OFE SUPPLIER.
3. SEE ARCHITECTURAL AND OFE DRAWINGS FOR LOCATIONS, ORIENTATIONS, AND QUANTITIES.



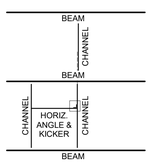
SECTION A-A

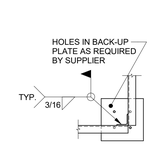


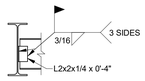
2 EXAM LIGHT SUPPORT (AT COMPOSITE SLABS)

NOTES:

1. UNISTRUT MAY BE SUBMITTED AS AN ALTERNATE TO STRUCTURAL STEEL. THE UNISTRUT SUPPORT SHALL BE DESIGNED BY THE UNISTRUT SUPPLIER AND SUBMITTED AS A SUBSTITUTION REQUEST.
2. THE BACK-UP PLATE MAY BE OMITTED AND REPLACED WITH AN ANCHOR PLATE PROVIDED BY THE OFE SUPPLIER. CONTRACTOR SHALL COORDINATE WITH THE OFE SUPPLIER.
3. SEE ARCHITECTURAL AND OFE DRAWINGS FOR LOCATIONS, ORIENTATIONS, AND QUANTITIES.

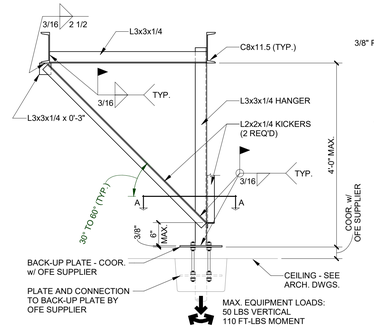




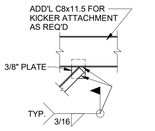


CHANNEL TO BEAM CONNECTION

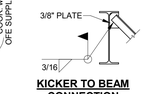
PLAN



SECTION A-A



KICKER TO CHANNEL CONNECTION



KICKER TO BEAM CONNECTION

1 EXAM LIGHT SUPPORT (AT ROOF DECK)

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

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Consultant:

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615 320 1735

Project No. 24237.00

STATE OF MISSOURI
MICHAEL LORIN LINDSEY
NUMBER 2010036744
PROFESSIONAL ENGINEER
4-18-25

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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

AUTHORITY HAVING JURISDICTION'S PROJECT NO:

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	3/4" = 1'-0"
DRAWN:	JL
REVIEWED:	JDP & KF
JOB NUMBER:	6406.24.0003

STEEL & ROOF FRAMING SECTIONS AND DETAILS

S302

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)_rvt23/24237-Lee's_Summit_MC_ED_Exp-SDL23.rvt

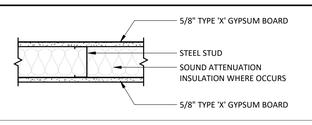
4/18/2025 7:45:13 AM

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

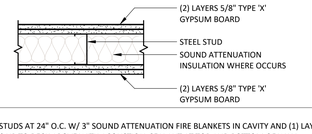
A



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.

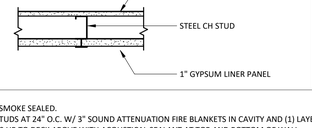
B



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.

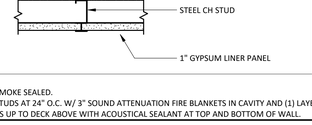
D



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.

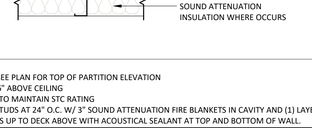
E



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



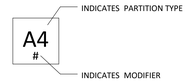
PARTITION TYPE	STUD WIDTH
F1	1 1/2"
F2	2 1/2"
F3	3 5/8"
F4	4"
F6	6"
F8	8"

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

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Consultant:

STATE OF MISSOURI
DUDLEY G. CAMPBELL
NUMBER A-2011036427

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
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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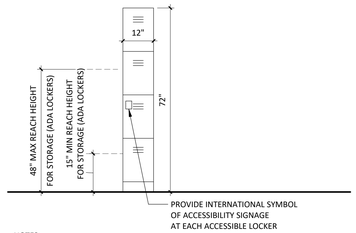
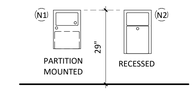
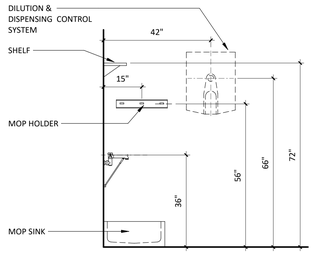


NOTES:
1. 5% OF LOCKERS SHALL BE ADA ACCESSIBLE W/ AT LEAST ONE OF EACH LOCKER TYPE AS ADA ACCESSIBLE.
2. PROVIDE 30"X48" CLEAR FLOOR SPACE FOR EACH ADA LOCKER.
3. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING,PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5LBS. MAX.
4. REFER TO FLOOR PLAN FOR LAYOUT REQUIREMENTS.

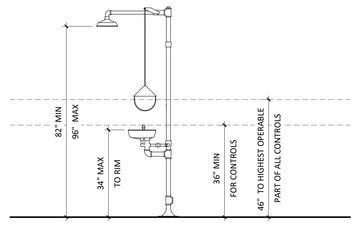
13 TYPICAL LOCKER WITH BASE
1/2" = 1'-0"



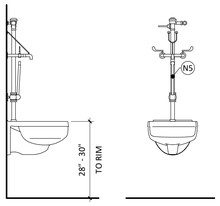
12 TYPICAL SANITARY NAPKIN DISPOSAL
1/2" = 1'-0"



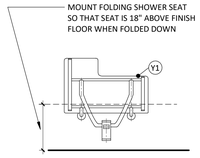
11 TYPICAL MOP SINK/RACK
1/2" = 1'-0"



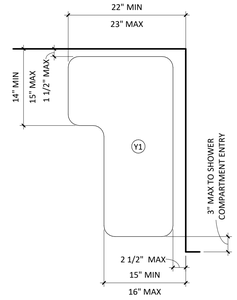
10 EMERGENCY SHOWER WITH EYEWASH
1/2" = 1'-0"



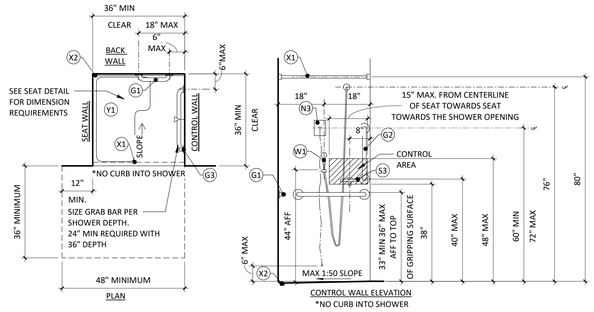
9 TYPICAL CLINIC SERVICE SINK
1/2" = 1'-0"



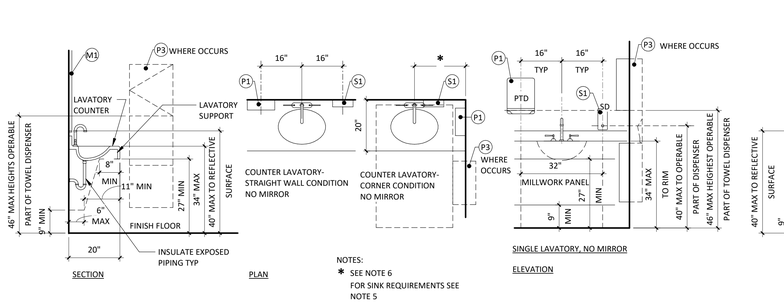
8 TYPICAL FOLDING SHOWER SEAT
1/2" = 1'-0"



7 L-SHAPED SHOWER SEAT
1" = 1'-0"

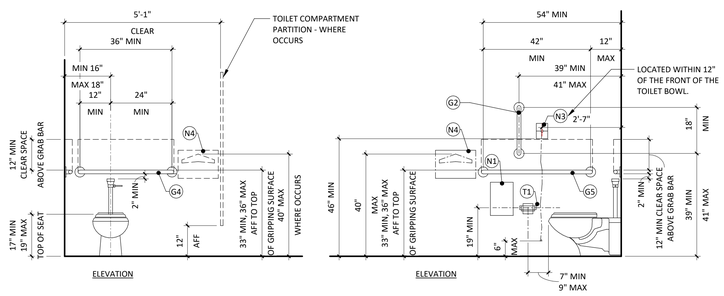


6 TYPICAL ACCESSIBLE TRANSFER SHOWER
1/2" = 1'-0"

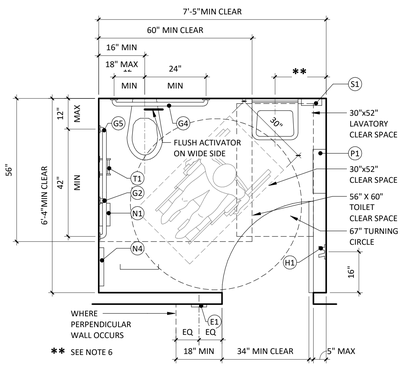


5 TYPICAL COUNTERTOP ACCESSIBLE LAVATORY WITH AND WITHOUT MIRROR
1/2" = 1'-0"

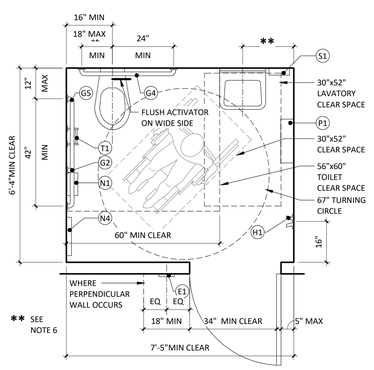
4 TYPICAL WALL MOUNTED LAVATORY
1/2" = 1'-0"



3 TYPICAL WATER CLOSET ACCESSORIES ELEVATIONS
1/2" = 1'-0"



2 TYPICAL IN-SWING DOOR ACCESSIBLE TOILET ROOM
1/2" = 1'-0"



1 TYPICAL OUT-SWING DOOR ACCESSIBLE TOILET ROOM
1/2" = 1'-0"

TYPICAL MOUNTING GENERAL NOTES

1. IT IS THE INTENT OF THE DESIGN THAT ALL ITEMS SHOWN MOUNTED AT TYPICAL HEIGHTS BE ACCESSIBLE TO PERSONS WITH DISABILITIES. ITEMS INDICATED AS NON-ACCESSIBLE ARE INTENDED FOR AUTHORIZED STAFF & SHALL BE COORDINATED W/ CLINICAL FUNCTION PER OWNER'S REQUIREMENTS.
2. THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE TYPICAL MOUNTING HEIGHTS AND - WHERE APPLICABLE - TYPICAL MINIMUM OR MAXIMUM CLEARANCES AND/OR TYPICAL MOUNTING CONFIGURATIONS WHICH MAY OCCUR AS PART OF THE WORK OF THIS PROJECT. REFER TO THE PLANS, ELEVATIONS, SECTIONS, DETAILS, AND SCHEDULES TO DETERMINE WHICH ITEMS AND CONFIGURATIONS APPLY TO THE WORK OF THIS PROJECT.
3. TYPICAL DIMENSIONS SHOWN ON THIS SHEET TAKE PRECEDENCE OVER TYPICAL DIMENSIONS SHOWN ON THE ELECTRICAL OR MECHANICAL DRAWINGS FOR THE MOUNTING OF ITEMS INSTALLED BY THE ELECTRICAL OR MECHANICAL TRADES. WHERE DISCREPANCIES OCCUR ARCHITECT SHALL BE NOTIFIED IN WRITING.
4. MOUNTING HEIGHTS, DIMENSIONS, CLEARANCES, AND ACCESS REQUIREMENTS FOR TOILET ACCESSORIES SHOWN ON THIS SHEET ARE GENERIC. SPECIFIC MANUFACTURERS AND MODELS AS INDICATED IN THE PROJECT MANUAL MOUNTING HEIGHTS, DIMENSIONS, CLEARANCES, AND ACCESS REQUIREMENTS OF THE SIMILAR ACCESSORIES MAY VARY FROM THOSE SHOWN HERE. WHEN SIMILAR ACCESSORIES ARE UTILIZED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION REQUIRED TO ACHIEVE THE SAME AESTHETIC, FUNCTIONAL, AND ACCESSIBLE DESIGN INTENT ILLUSTRATED BY THE CONFIGURATION SHOWN ON THE DRAWINGS.
5. HANDWASH STATION/LAVATORY WITH GOOSENECK FAUCET SHALL HAVE A LAVATORY BASIN AREA NOT LESS THAN 144 SQ. INCHES WITH A MINIMUM 9" WIDTH OR LENGTH. THE WATER DISCHARGE POINT OF THE GOOSENECK FAUCET SHALL BE A MINIMUM 10" ABOVE THE BOTTOM OF THE LAVATORY BASIN. PER FGI GUIDELINES LAVATORIES & HAND WASHING SINKS SHALL BE SECURELY ANCHORED TO WITHSTAND AN APPLIED VERTICAL LOAD NOT LESS THAN 250 POUNDS ON THE FIXTURE & MILLWORK FRONT.
6. 18" MIN WHEN USING [P1] (WASTE RECEPTACLE SHALL NOT ENCROACH ON FIXTURE CLEAR SPACE OR TURNING RADIUS. COORDINATE SIZE WITH OWNER) 20" MIN WHEN USING A [P3] COMBINATION UNIT.

ACCESSORY LEGEND

- (Y1) SURFACE MOUNTED FOLDING SHOWER SEAT- L-SHAPED
- (X1) SHOWER CURTAIN ROD
- (X2) TRENCH DRAIN @TOE OF COVE
- (W1) HAND HELD FLEXIBLE SHOWER SPRAY & HOSE 59" LONG MIN.
- (T1) SURFACE MOUNTED TOILET PAPER DISPENSER
- (S1) SOAP DISPENSER
- (S2) RECESSED TOILETRY SHELF
- (S3) RECESSED SOAP SHELF
- (S4) COUNTER MOUNTED SOAP DISPENSER
- (P1) SURFACE MOUNTED PAPER TOWEL DISPENSER
- (N3) NURSE CALL PULL CORD
- (N4) TOILET SEAT COVER DISPENSER
- (N5) BEDPAN WASH
- (N1) SURFACE MOUNTED SANITARY NAPKIN DISPOSAL AT FEMALE AND UNISEX TOILET ONLY
- (M1) 24"WX36"H SURFACE MOUNTED MIRROR
- (M6) 18"WX24"H SURFACE MOUNTED MIRROR
- (H1) SURFACE MOUNTED COAT HOOK
- (G1) 12" LENGTH GRAB BAR
- (G2) 18" LENGTH GRAB BAR
- (G3) 24" LENGTH GRAB BAR
- (G4) 36" LENGTH GRAB BAR
- (G5) 42" LENGTH GRAB BAR
- (E1) TACTILE ROOM SIGN - WHERE OCCURS

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T: 602.943.8950
www.devenneygroup.com

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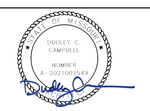

DATE SIGNED: 04.18.25

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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:
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AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	2025/04/18
SCALE:	As indicated
DRAWN:	LL
REVIEWED:	
JOB NUMBER:	6406.24.0003

TYPICAL MOUNTING HEIGHTS

AC521

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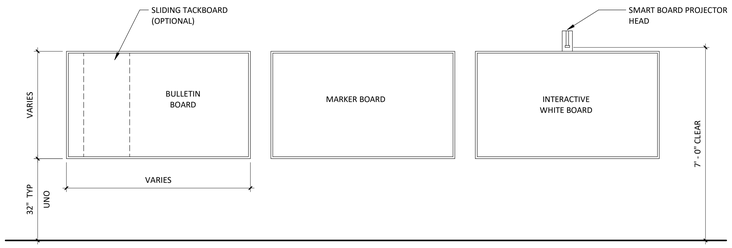
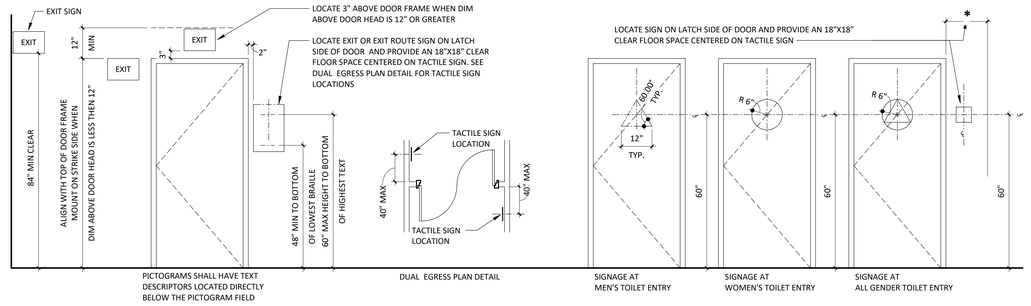
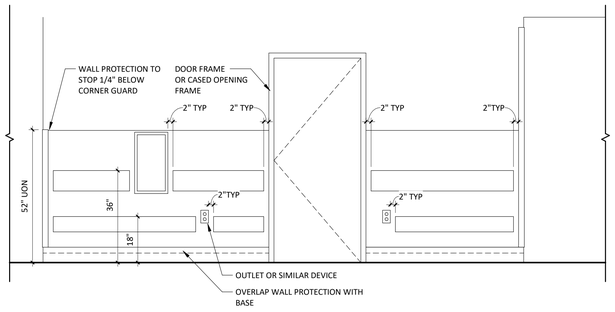




7 TYPICAL WALL MOUNTED BOARDS

1/2" = 1'-0"



6 TYPICAL SIGNAGE AT DOORS

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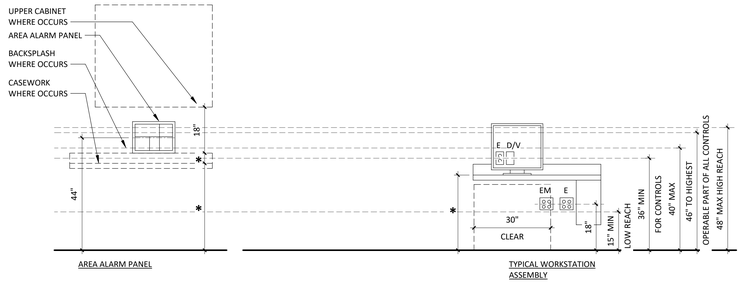
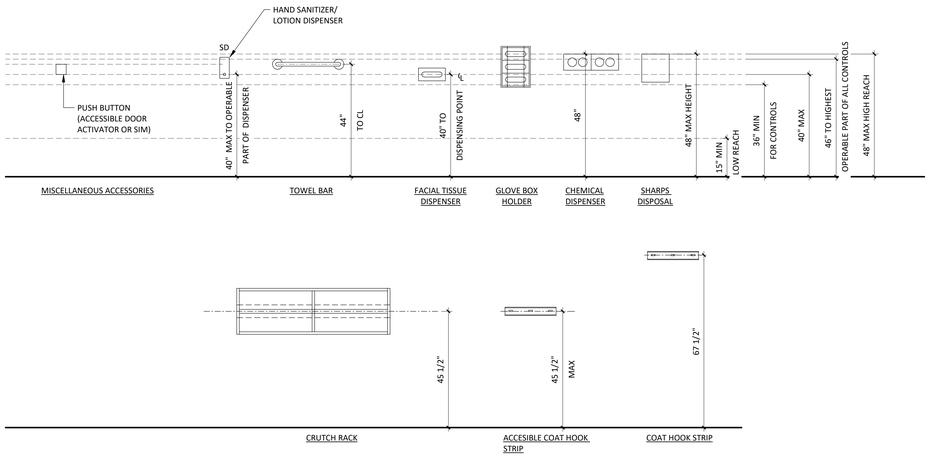


5 TYPICAL WALL PROTECTION

1/2" = 1'-0"

4 TYPICAL FURNITURE MOUNTING1

1/2" = 1'-0"



1 TYPICAL ACCESSORIES

1/2" = 1'-0"

TYPICAL MOUNTING GENERAL NOTES

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6. 18" MIN WHEN USING [P1] (WASTE RECEPTACLE SHALL NOT ENCROACH ON FIXTURE CLEAR SPACE OR TURNING RADIUS. COORDINATE SIZE WITH OWNER) 20" MIN WHEN USING A [P3] COMBINATION UNIT.

ACCESSORY LEGEND

- (Y1) SURFACE MOUNTED FOLDING SHOWER SEAT- L-SHAPED
- (X1) SHOWER CURTAIN ROD
- (X2) TRENCH DRAIN @TOE OF COVE
- (W1) HAND HELD FLEXIBLE SHOWER SPRAY & HOSE 59" LONG MIN.
- (T1) SURFACE MOUNTED TOILET PAPER DISPENSER
- (S1) SOAP DISPENSER
- (S2) RECESSED TOILETRY SHELF
- (S3) RECESSED SOAP SHELF
- (S4) COUNTER MOUNTED SOAP DISPENSER
- (P1) SURFACE MOUNTED PAPER TOWEL DISPENSER
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- (N1) SURFACE MOUNTED SANITARY NAPKIN DISPOSAL AT FEMALE AND UNISEX TOILET ONLY
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- (G5) 42" LENGTH GRAB BAR
- (E1) TACTILE ROOM SIGN - WHERE OCCURS

Devenney GROUP

Devenney Group Ltd., Architects

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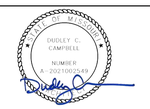

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TYPICAL MOUNTING HEIGHTS

AC522

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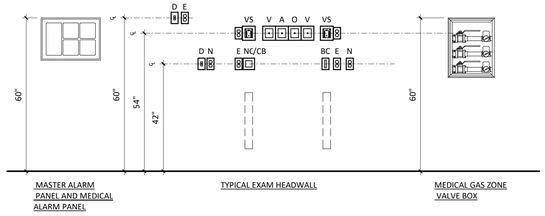
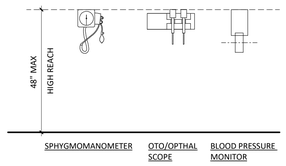


7 TYPICAL MEDICAL GASES AND ACCESSORIES

1/2" = 1'-0"



6 TYPICAL HEADWALL ACCESSORIES

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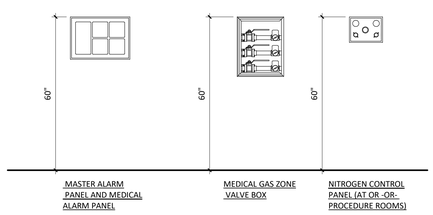

5 TYPICAL MEDICAL GASES AND ACCESSORIES

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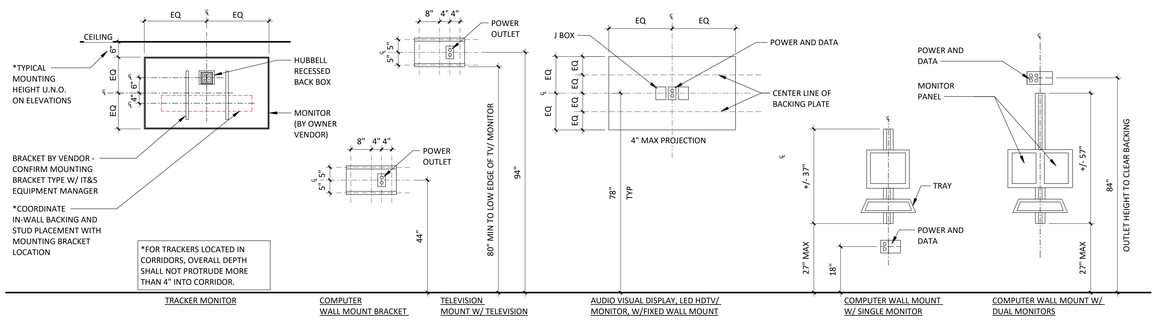
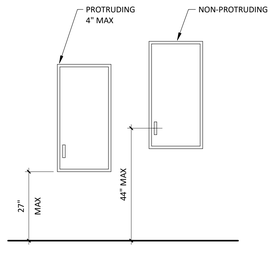


4 TYPICAL WALL MOUNTED ELECTRONIC EQUIPMENT

1/2" = 1'-0"



3 TYPICAL ELECTRICAL PANELS

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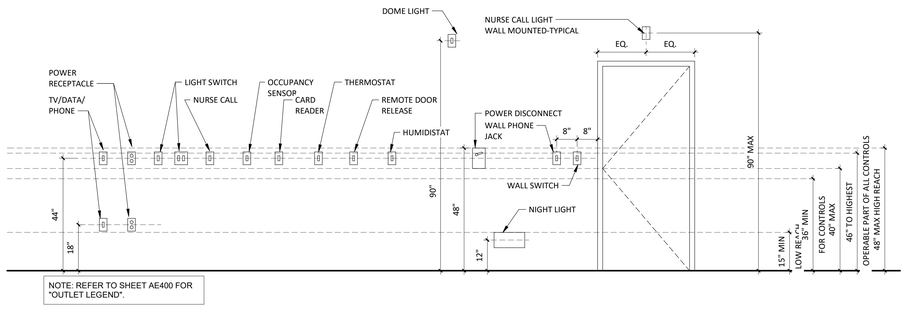
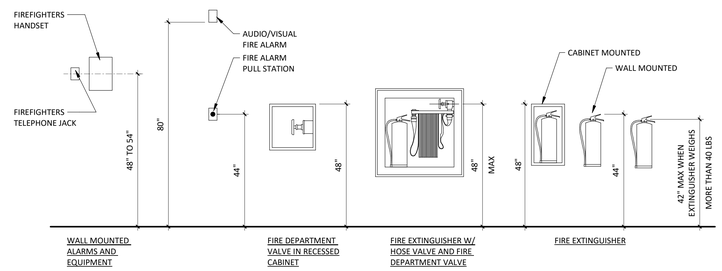


2 TYPICAL ELECTRICAL CONTROL DEVICES

1/2" = 1'-0"



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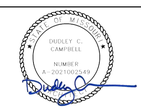

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AC523

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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

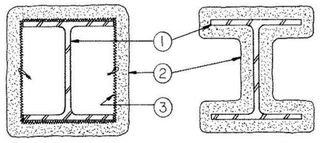
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

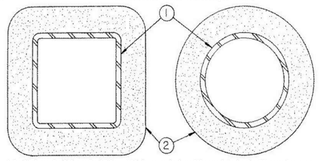
Design No. X790

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, 300O, 300OES 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.	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
ST12x32x1.25 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 3007W. 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 3007W 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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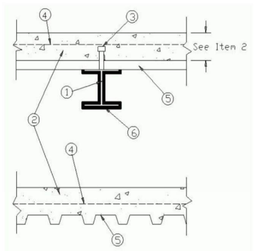

1. **Beam —** W6X15 min. size. Joists shall not be substituted for the wide flanged beam.

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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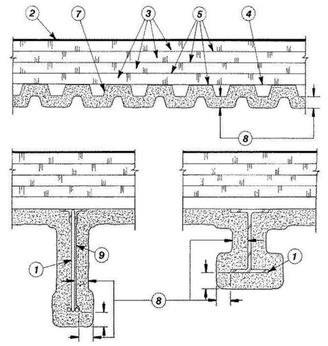

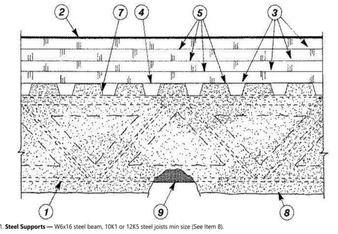

1. **Steel Supports —** W6x16 steel beam, 10K1 or 12K5 steel joists min size (See Item B).

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 I, Tapered ACFoam I, ACFoam II NH, ACFoam II, 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".

ATLAS ROOFING CORP — ACFoam Nail Base Insulation, ACFoam Nail Base Insulation NH, Vented-R, ACFoam CrossVent, ACFoam CrossVent NH, ACFoam II 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 — Hallgard, "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 board (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, InvinsaTM

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-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 FE348-2.8, 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.

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. 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

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

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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

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

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 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

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, ZWH-36, ZWNS-36, 3WH-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, 5B, 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, 5B, 400AC, 400ES, 3000, 3000ES, M-II, TG and M-II/P.

NEWKEIM PRODUCTS CORP — Types 300, 300ES, 300N, 5B, 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.

NEWKEIM 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 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	4-5/16	5	5	5
9/16	5	3-1/2	5	5	5
11/16	5	2-3/4	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 distance min 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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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, 2005

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 —** WRX16 or WBX10 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 (CHKT).

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 (CBKQ) 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 Verroform, 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, UFXI, UFX-36, UFXV-36. Types NI, NS, NS32, NS32, NS32-XS and NS32-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 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.

MARILYN 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 conditions: (A) For Types PLB, 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, 0.6CSV, 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 !) — 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	Min Thkns on Beam W6x16	Min Thkns on Beam W8x10	Min Thkns on Joist (No. Lath)	Min Thkns on Joist (with Lath)
1	1

UL Product iQ®

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

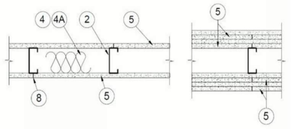
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

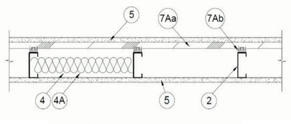
See General Information for Fire-resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

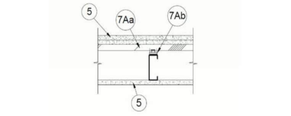
Design No. U419

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- 7/8 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 — CRICSTUD 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 1-1/4 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 of 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 — CRICSTUD

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 1Q, 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** (BXNV 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** (BXNV or BZJZ) Categories for names of Classified companies.

4B. **Fiber, Sprayed* —** (Optional — as an alternate to Item 4 or 4A, for use with Type ULID) 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.
BASF CORP - Everfoc® NM, Everfoc® G, FE178®, Sprayfoc® 178, Sprayfoc® 812DI, Walltite® 200, Walltite® US, Walltite® US-N, Walltite HP+, FE137®, FE158®, Sprayfoc® 158, Sprayfoc® SP, Sprayfoc® 812DS, Sprayfoc® Comfort XL, Walltite® XL, Walltite® MAX, Walltite® LWP, Walltite® Plus, Walltite® One, and Everfoc® 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, Items 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 Type 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, 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.

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 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 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. 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. 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).
LEAD BURNING INC — 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. For 2 layer assemblies inner layer installed as described in the 2 layer system (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, 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 SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 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 Type 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, 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 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. 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 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 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, mas 8 lb 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.

UL Product iQ®

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

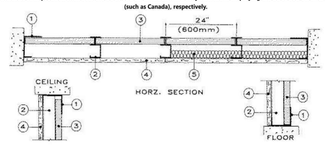
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

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

Design No. 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, LGFCSA

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.

5E. **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".

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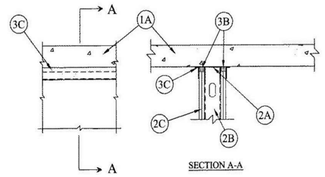

CONFIGURATION C

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

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Last Updated on 2023-06-26

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B. **Steel Studs —** "C-H"- shaped steel studs to be min 2-1/2 in. (64 mm) wide and formed of min 24 MSG galv steel. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in slotted ceiling track. Studs spaced 24 in. (610 mm) OC. After installation of gypsum board liner panels (Item 2D), studs secured to flange of floor runner on finished side of wall only with No. 6 by 1/2 in. (13 mm) long self-drilling, self-tapping steel screws. Studs secured to flange of slotted ceiling track on finished side of wall only with No. 8 by 1/2 in. (13 mm) long self-drilling, self-tapping wafer head steel screws at slot midheight.

C. **Gypsum Board* —** 1 in. (25 mm) thick by 24 in. (610 mm) wide gypsum board liner panels as specified in the individual U400 or V400 Series Wall and Partition Design. Panels cut 1 in. (25 mm) less in length than floor to ceiling height. Vertical edges inserted in "H"-shaped section of "C-H" studs. Free edge of end panels attached to long leg of "J" runner (Item 2A) with 1-5/8 in. (41 mm) long Type S steel screws spaced max 12 in. (305 mm) OC.

D. **Gypsum Board* —** Gypsum board sheets, 1/2 or 5/8 in. (13 or 16 mm) thick, applied vertically or horizontally in one or two layers on finished side of wall as specified in the individual U400 or V400-Series Wall and Partition Design. A max 1 in. (25 mm) gap shall be maintained between the top of the gypsum board and the bottom surface of the concrete floor. The screws attaching the gypsum board layers to the C-H studs shall be located 1 in. (25 mm) below the bottom of the slotted ceiling track (Item 2C). No gypsum board attachment screws are to penetrate the slotted ceiling track.

3. **Joint System —** Max separation between bottom of floor and top of gypsum board panels (non-shaft side) and between gypsum board panels (shaft side) at time of installation is 3/4 in. (19 mm). The movement capability of the joint system is 25 percent compression or extension. The joint system shall consist of forming and fill materials, as follows:
A. **Fill, Void or Cavity Material* —** Min 1 in. (25 mm) depth of sealant to be installed to fill linear gap between top of gypsum board liner panel (Item 2C) and top inside surface of ceiling runner (Item 2A or 2A1) prior to installation of gypsum board sheets on finished side of wall. For 1 Hr shaft walls, min 5/8 in. (16 mm) depth of sealant to be installed to fill linear gap between top of gypsum board sheet (Item 2D) and bottom of concrete floor for Configuration 1 or between the gypsum board sheets (Item 2E)for Configuration 2. For 2 Hr shaft walls, min 1 in. (25 mm) depth of sealant to be installed to fill linear gap between top of gypsum board sheets (Item 2E) and bottom of concrete floor for Configuration 1 or between the gypsum board sheets in Configuration 2. When LC150 Sealant is used, the movement capability of the joint system is 25 percent compression only.
SPECIFIED TECHNOLOGIES INC — SpecSeal ES Sealant or LC150 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 2023-06-26

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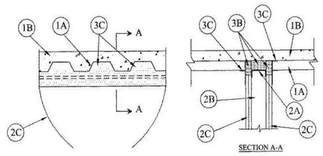
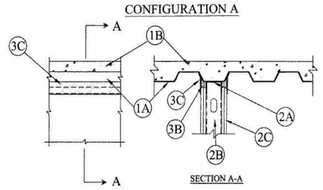


CONFIGURATION A



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 wallboard 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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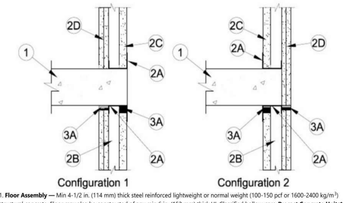
XHBN - Joint Systems

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, series250VT, 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

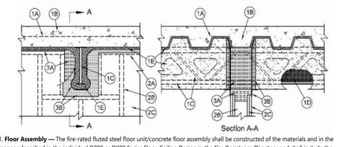
See General Information for Joint Systems

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, the joints (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.

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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Consultant:

STATE OF MISSOURI
BUDLEY C. CAM

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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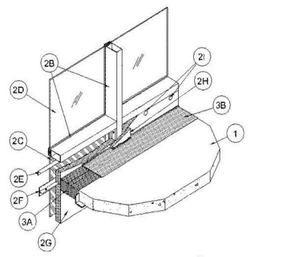
XHDG - Perimeter-fire-containment Systems

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 non-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 2% 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.

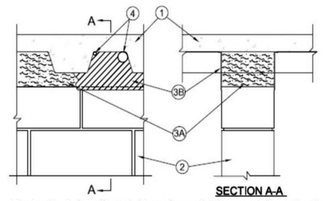
XHBN - Joint Systems

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 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 mullions to be 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.

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Last Updated on 2010-06-04

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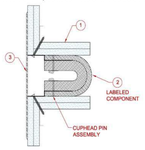
CORPORATE HEADQUARTERS
114 Lincoln Ave.
Cobleskill, NY 12043
888-680-7974
www.fireteshing.com

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 9Ga. 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
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Consultant:

STATE OF MISSOURI
BUDLEY C. CAMPBELL
NUMBER A-2007019547
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

AC535

D

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

XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. W-L-1001

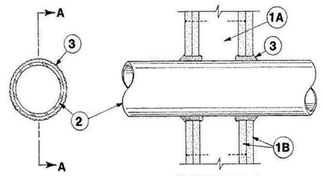
June 15, 2005

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

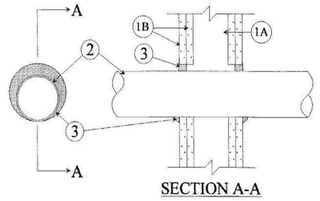
See General Information for Through-penetration Firestop Systems

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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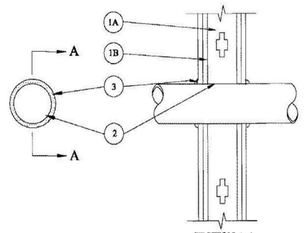

SECTION A-A

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

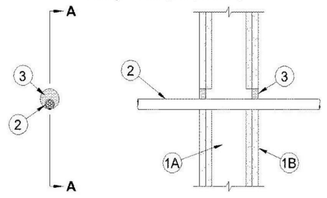
See General Information for Through-penetration Firestop Systems

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 G. CAMPBELL
NUMBER A-2011036427

DATE SIGNED: 07.30.25

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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

AC536

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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XHEZ - Through-penetration Firestop Systems

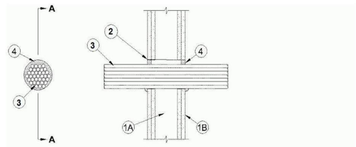
See General Information for Through-penetration Firestop Systems

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 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 diameter 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. 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** (XHJY) 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

*** 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 2018-04-10

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XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. W-L-3289

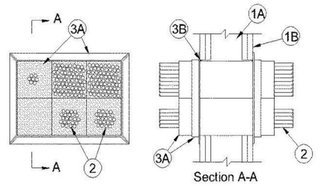
August 18, 2011

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 T 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 7/8 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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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

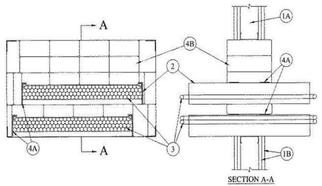
See General Information for Through-penetration Firestop Systems

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

System No. W-L-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)



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, 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. 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.

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

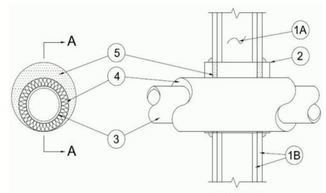
See General Information for Through-penetration Firestop Systems

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 Ratings — 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)



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 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 space 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

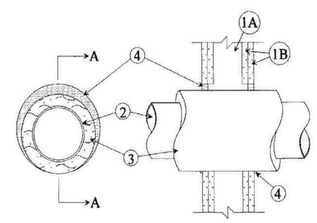
See General Information for Through-penetration Firestop Systems

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)



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 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

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Consultant:

STATE OF MISSOURI
BUDLEY G. CAMPBELL
NUMBER A-2007036427

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: 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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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

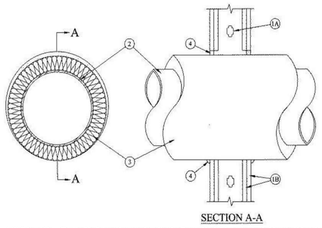
See General Information for Through-penetration Firestop Systems

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)



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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- 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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XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. W-L-7019

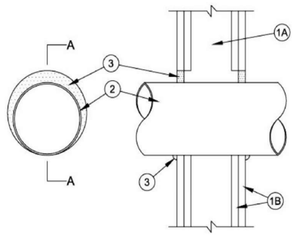
October 28, 2009

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



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. 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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- 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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XHEZ - Through-penetration Firestop Systems

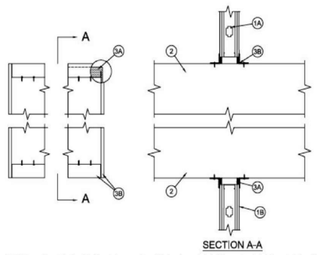
See General Information for Through-penetration Firestop Systems

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)



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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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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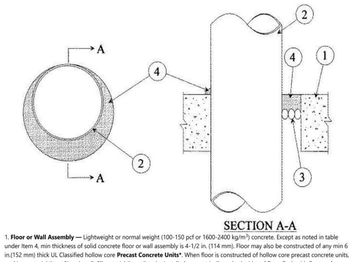

1. **Floor or Wall Assembly —** Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Except as noted in table under Item 4, min thickness of solid concrete floor or wall assembly is 4-1/2 in. (114 mm). Floor may also be constructed of any min 6 in.(152 mm) thick UL Classified hollow 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

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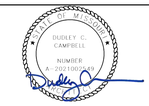
Consultant:



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

AC538

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

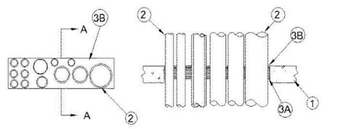
See General Information for Through-penetration Firestop Systems

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** (CFTV) 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

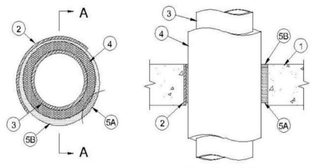
System No. C-AJ-5119

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 is 528 in.2 (0.34 m2) with a max dimension of 44 in. (1.2 m).
See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Cable Tray —** Max 40 in. (1 m) 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 40 in. 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 one cable tray per opening. The annular space between the cable tray and the periphery of the opening will be min 0 in. (0 mm, point contact) to max 8 in. (203 mm). Cable tray to be rigidly supported on both sides of floor or 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 1/4 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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Last Updated on 2022-11-26

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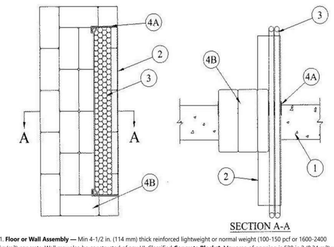

SECTION A-A

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. 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-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
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)

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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XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

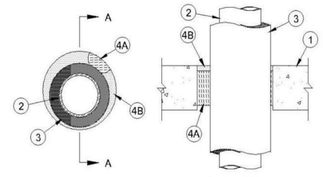
System No. C-AJ-5156

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. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 18 in. (457 mm)
See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

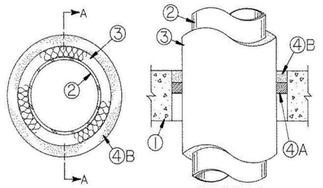
1A. **Steel Sleeve —** (Optional, not shown) — Nom 10 in. (254 mm) (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 2 in. (51 mm) above top of floor or beyond either surface of wall. As an alternate, nom 10 in. (254 mm) diam (or smaller) steel 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



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.

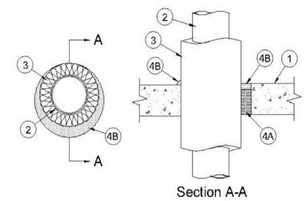
B. **Iron Pipe —** Nom 3 in. (76 mm) diam (or smaller) cast or ductile iron pipe.

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. (1 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).



Section A-A

Devenney GROUP

Devenney Group Ltd., Architects

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Suite 500
Scottsdale, AZ 85251

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Consultant:

STATE OF MISSOURI
BUDLEY G. CAMPBELL
NUMBER A-2010038147

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

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.

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

8/6/2025 2:12:02 PM

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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adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2025 UL LLC."

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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- 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.

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

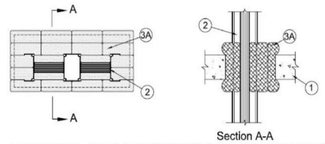
See General Information for Through-penetration Firestop Systems

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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- 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.

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

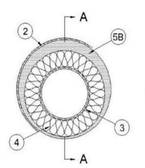
See General Information for Through-penetration Firestop Systems

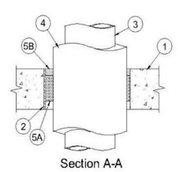
See General Information for Through-penetration Firestop Systems Certified for Canada

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

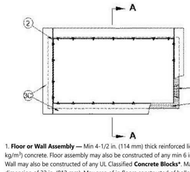
See General Information for Through-penetration Firestop Systems

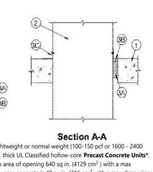
See General Information for Through-penetration Firestop Systems Certified for Canada

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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- 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.

XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

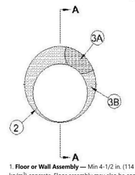
System No. C-AJ-7081

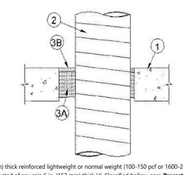
May 19, 2005

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

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

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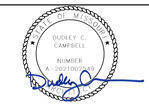
Consultant:



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

AC540

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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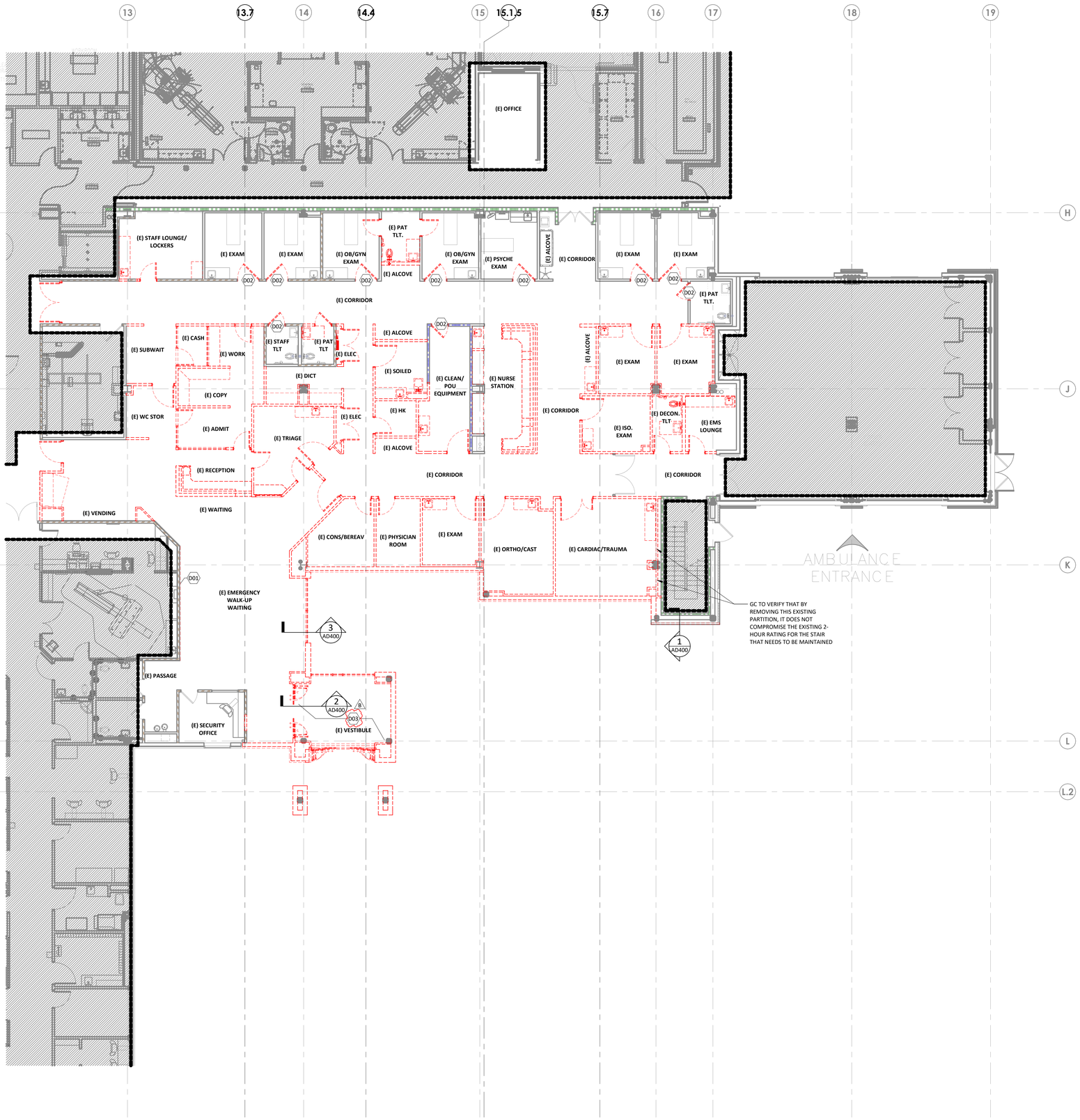


1 DEMOLITION PLAN - OVERALL - LEVEL 1
1/8" = 1'-0"

DEMOLITION GENERAL NOTES

1. DELIVER SALVAGED ITEMS TO THE OWNER AS DESIGNATED BY THE OWNER'S REPRESENTATIVE. THIS MAY INCLUDE BUT IS NOT LIMITED TO CASEWORK, FURNITURE, DOORS, DOOR HARDWARE, DISPENSERS, MARKERBOARDS, MEDICAL EQUIPMENT, MEDICAL GAS ITEMS, PLUMBING FIXTURES, LIGHT FIXTURES, AND MECHANICAL EQUIPMENT. ALL OTHER ITEMS SHALL BE DISPOSED OF BY CONTRACTOR.
2. PATCH AND REPAIR FLOOR, WALL, AND CEILING PENETRATIONS WHERE ITEMS HAVE BEEN REMOVED TO MATCH EXISTING FINISH. SEAL RATED ASSEMBLIES WITH APPROVED U.L. RATED MATERIALS.
3. PROTECT ADJACENT ITEMS THAT ARE TO REMAIN INCLUDING, BUT NOT LIMITED TO, FINISHES, CASEWORK, FURNITURE, DOORS, PLUMBING FIXTURES, CEILING ASSEMBLIES, AND MECHANICAL EQUIPMENT.
4. PROTECT STRUCTURAL COLUMNS, BEAMS, AND FRAMING. MAINTAIN SPRAYED ON FIREPROOFING RATING AT STRUCTURAL MEMBERS. DAMAGE TO FIREPROOFING SHALL BE PATCHED AND/OR REPLACED TO BRING TO ORIGINAL AND/OR REQUIRED PROTECTION RATING.
5. REMOVE EXISTING FLOOR FINISHES AND PREPARE EXISTING SLAB FOR NEW FINISH INSTALLATION, U.N.O.

DEMOLITION LEGEND

- DEMO PARTITION
- DEMO DOOR AND FRAME
- DEMO WINDOW AND FRAME
- DEMO EXISTING PLUMBING FIXTURE
- DEMO EXISTING FLOOR SLAB FOR NEW PLUMBING / ELECTRICAL

PARTITION LEGEND

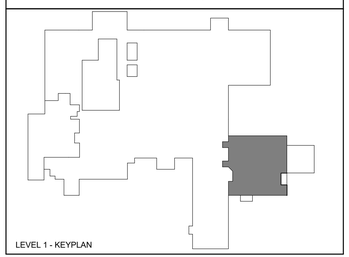
EXISTING	NEW	
		NON-RATED PARTITION
		2-HOUR FIRE BARRIER
		1-HOUR FIRE BARRIER
		1-HOUR SMOKE BARRIER
		SMOKE PARTITION
		1-HOUR FIRE PARTITION

- LIMITS OF CONSTRUCTION (SHADE INDICATES AREA OUTSIDE OF SCOPE)

KEYNOTE LEGEND

KEY	NOTE
D01	REMOVE/ RELOCATE EXISTING ITEMS ON THIS PARTITION TO NEW PARTITION. SALVAGE ITEMS AND RETURN TO OWNER. REFER TO ELECTRICAL.
D02	REMOVE EXISTING DOOR AND HARDWARE, FRAME TO REMAIN.
D03	DEMO CONCRETE SLAB AND FOOTINGS THIS AREA

KEY PLAN



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STATE OF MISSOURI
NUMBER A-2021009549

DATE SIGNED: 06.05.25

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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

DATE:	2025/04/18
SCALE:	1/8" = 1'-0"
DRAWN:	JV, LL
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

DEMOLITION PLAN - LEVEL 1

AD100

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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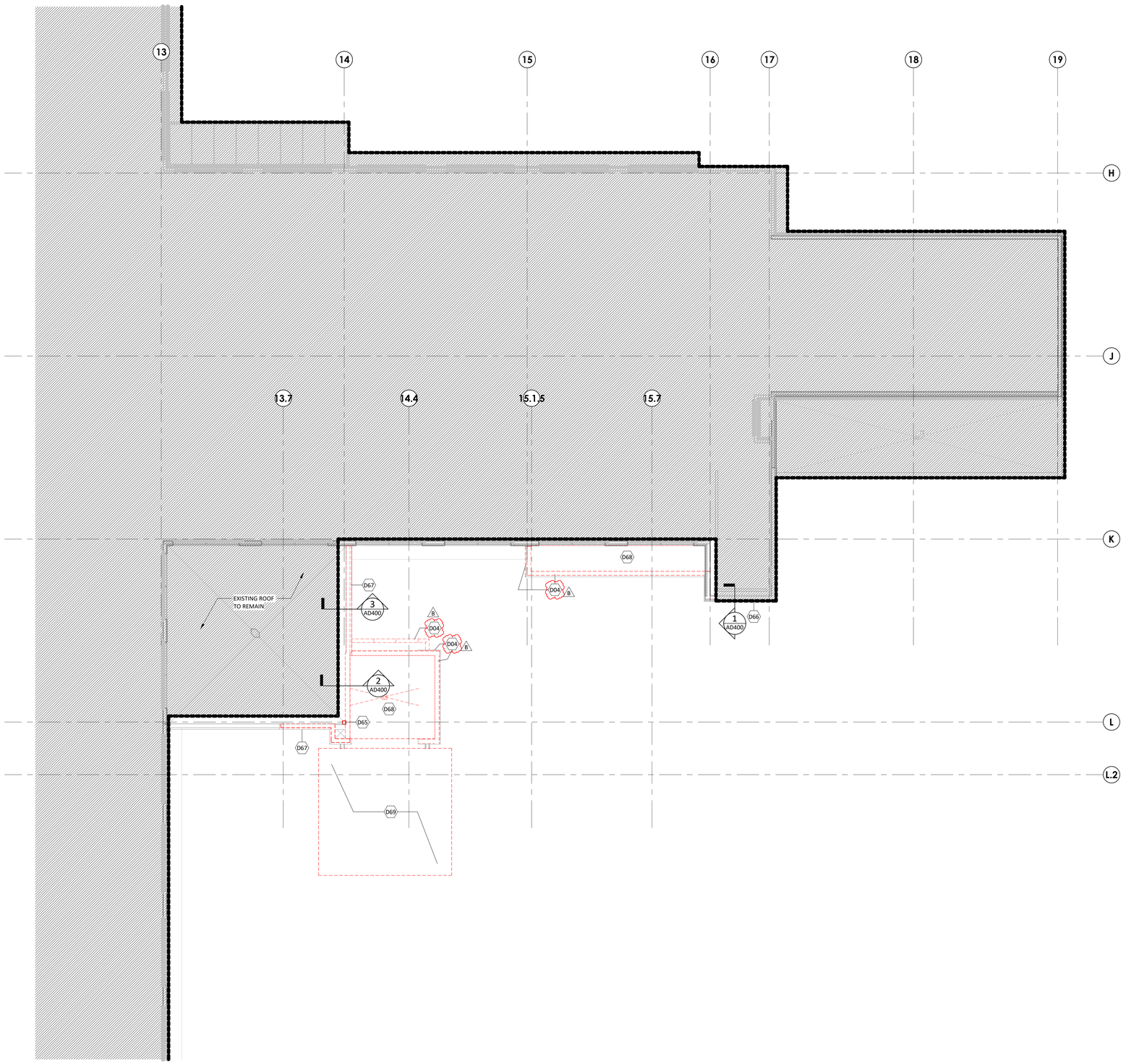

1 DEMOLITION PLAN - ROOF
1/8" = 1'-0"

DEMOLITION GENERAL NOTES

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DEMOLITION LEGEND

- DEMO PARTITION
- DEMO DOOR AND FRAME
- DEMO WINDOW AND FRAME
- DEMO EXISTING PLUMBING FIXTURE
- DEMO EXISTING FLOOR SLAB FOR NEW PLUMBING / ELECTRICAL

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)

KEYNOTE LEGEND

KEY	NOTE
D04	REMOVE EXISTING EXTERIOR WALL. SEE DEMOLITION DRAWINGS FOR DEMOLITION EXTENT.
D65	REMOVE EXISTING HSS COLUMN.
D66	REMOVE PORTION OF EXISTING BRICK SYSTEM.
D67	REMOVE PORTION OF EXISTING EXTERIOR PARAPET WALL AND METAL COPING. PROTECT EXISTING ROOFING DURING CONSTRUCTION, AS REQUIRED, TO PROVIDE WEATHER TIGHT CONDITION. SEE SHEET AD400 FOR DEMOLITION EXTENTS.
D68	DEMO EXISTING TPO OVER LIGHTWEIGHT INSULATED CONCRETE ROOF SYSTEM.
D69	REMOVE EXISTING CANOPY ROOFING/STRUCTURE.

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DATE SIGNED: 06.05.25

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ED EXPANSION

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

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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

DATE:	2025/04/18
SCALE:	1/8" = 1'-0"
DRAWN:	JV, LL
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

DEMOLITION PLAN - ROOF

AD104

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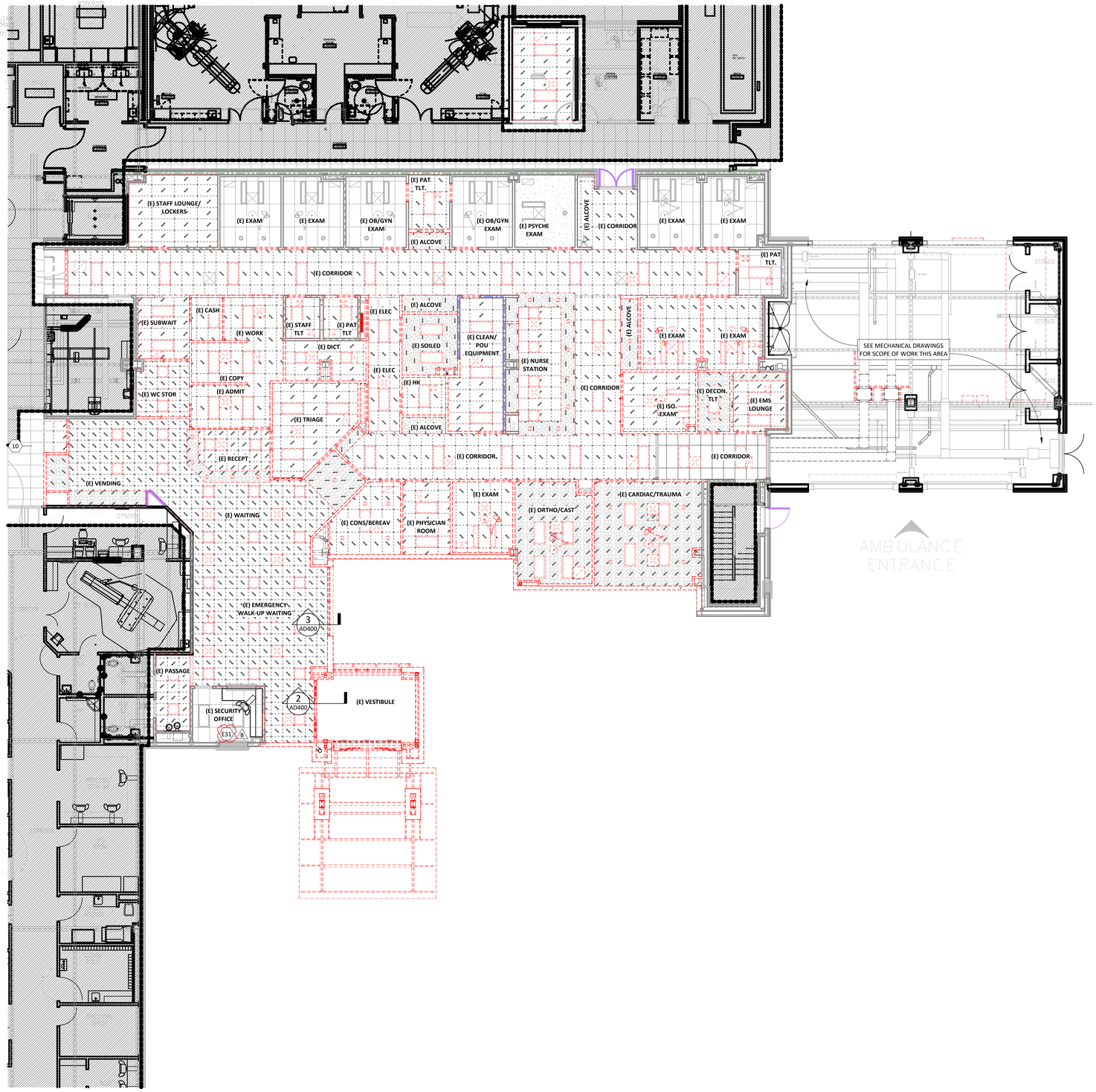

1 DEMOLITION RCP - OVERALL - LEVEL 1
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5. REMOVE EXISTING FLOOR FINISHES AND PREPARE EXISTING SLAB FOR NEW FINISH INSTALLATION, U.N.O.

REFLECTED CEILING LEGEND

EXISTING	DEMO	
		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)
		RETURN AIR GRILLE
		EXHAUST GRILLE
		CURTAIN TRACK

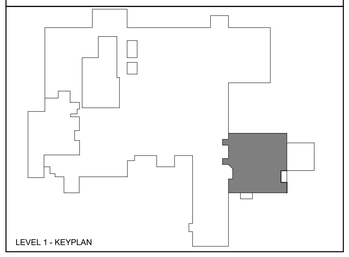
PARTITION LEGEND

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)

KEYNOTE LEGEND

KEY	NOTE
10	PATCH, REPAIR AND/OR REPLACE DAMAGED FINISHES TO MATCH EXISTING ADJACENT SURFACES.
E31	REMOVE EXISTING CEILING TILES AS REQUIRED FOR ABOVE CEILING WORK. REINSTALL CEILING TILES AFTER WORK IS COMPLETE.

KEY PLAN



LEVEL 1 - KEYPLAN

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NUMBER A-2021009549

DATE SIGNED: 06.05.25

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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

DATE:	2025/04/18
SCALE:	1/8" = 1'-0"
DRAWN:	JV
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DEMOLITION RCP - LEVEL 1

AD171

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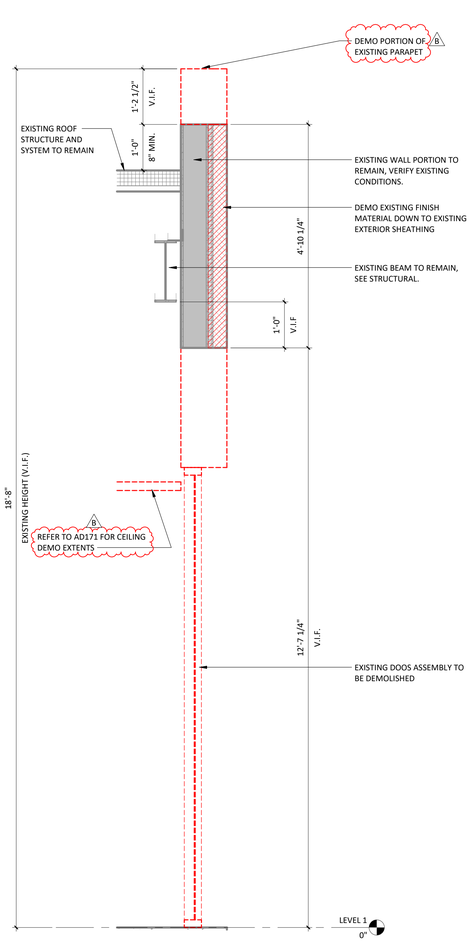
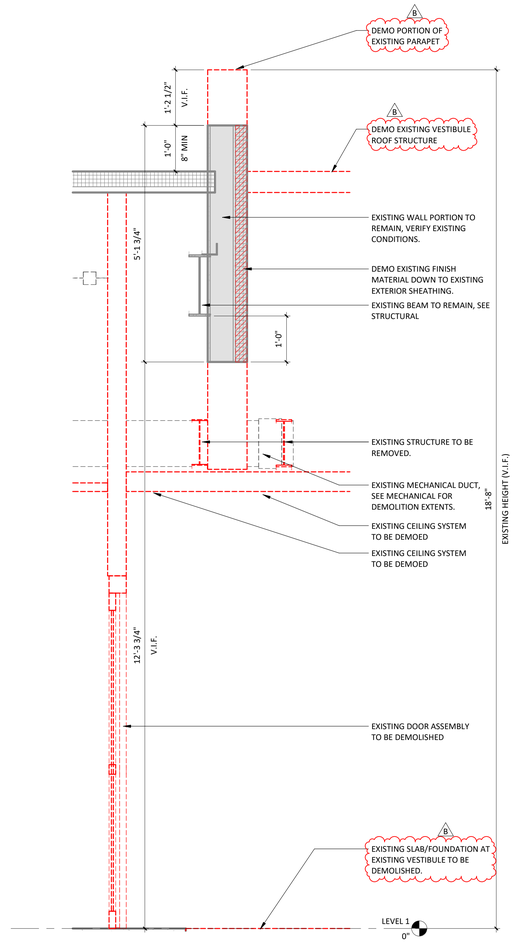


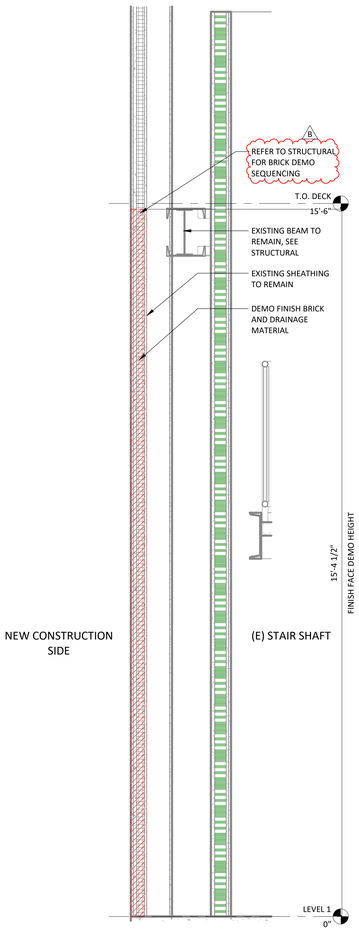
EXISTING PARAPET AT NEW ROOF - SECTION A

3 — 3/4" = 1'-0"



EXISTING PARAPET AT NEW ROOF - SECTION B

2 — 3/4" = 1'-0"



EXISTING BRICK TO NEW ROOF

1 — 3/4" = 1'-0"

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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

DATE:	2025/04/18
SCALE:	3/4" = 1'-0"
DRAWN:	JV
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

DEMOLITION SECTIONS

AD400

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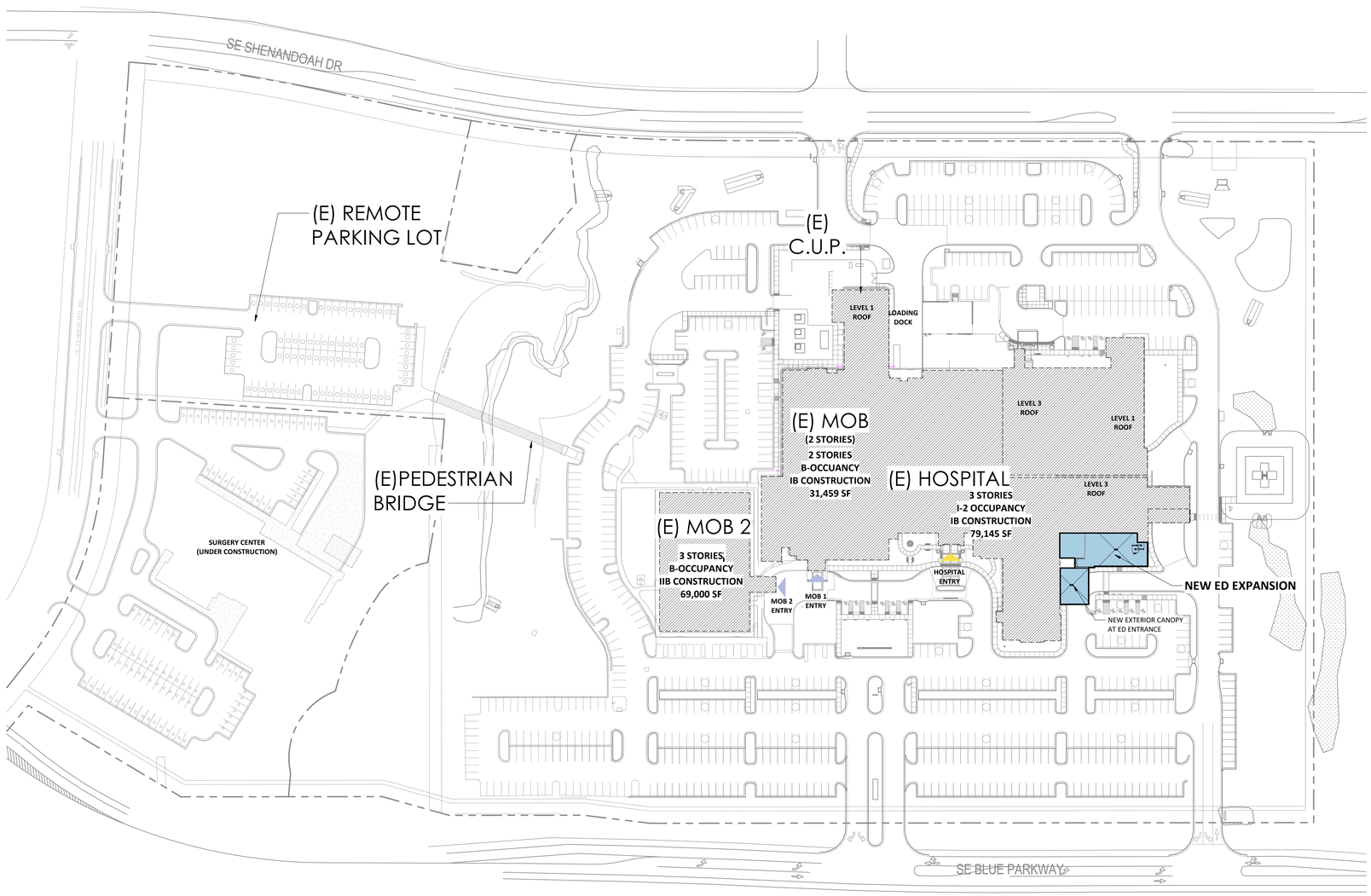
REFER TO CIVIL DRAWINGS FOR PARKING SUMMARY



1 ARCHITECTURAL SITE PLAN
1/64" = 1'-0"

Devenney GROUP

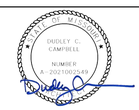
Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:



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ED EXPANSION

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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

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ARCHITECTURAL SITE PLAN

AS001

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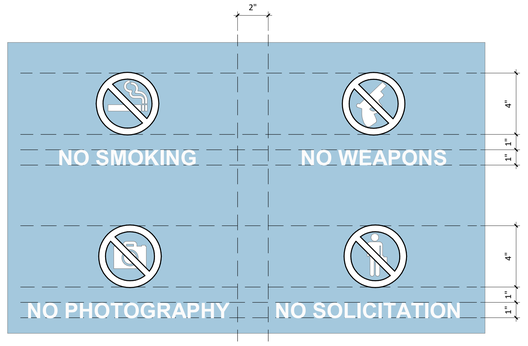
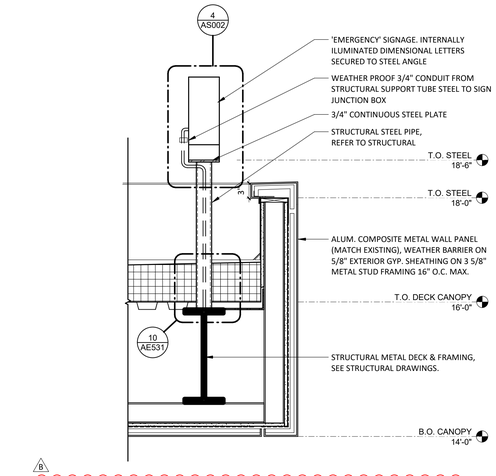
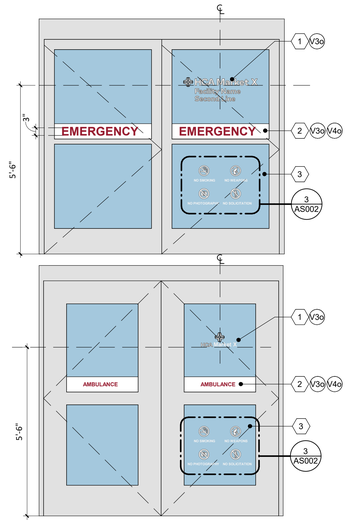


3 DOOR VINYL DETAIL
3" = 1'-0"



5 CANOPY EDGE - SIGN
1" = 1'-0"



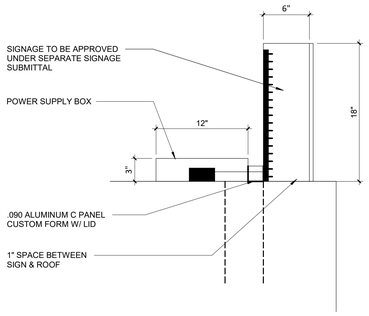
1 **LOGO**
OPAQUE WHITE VINYL APPLIED TO FIRST SURFACE

2 **EMERGENCY BAND**
OPAQUE VINYL APPLIED FIRST SURFACE

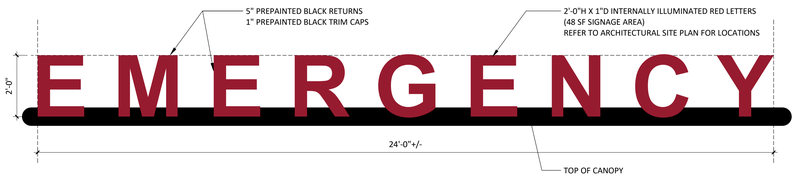
3 **MOUNTING SURFACE**
CLEAN SURFACE PRIOR TO INSTALL

NOTE: REFER TO MATERIALS LEGEND FOR ALL COLOR AND MATERIAL SPECIFICATIONS

2 REGULATORY PANEL AT ENTRY AND AMBULANCE (BASIS OF DESIGN)
1/2" = 1'-0"



4 CANOPY SIGN ATTACHMENT
1 1/2" = 1'-0"



1 FREESTANDING CANOPY LETTERS - EMERGENCY
1/2" = 1'-0"

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ED EXPANSION

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AUTHORITY HAVING JURISDICTION:
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MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
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SCALE: As indicated
DRAWN:
REVIEWED:
JOB NUMBER: 6406.24.0003

EXTERIOR CANOPY & DOOR SIGNAGE DETAILS

AS002

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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)

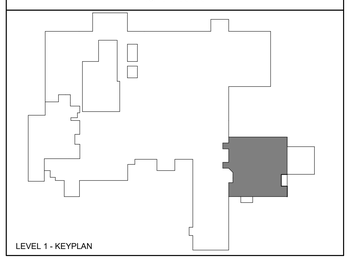
ACCESS CONTROL LEGEND

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



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ARIZONA

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MISSOURI DHSS

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AGENCY

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C	STATE - 2ND REVIEW	2025/07/30
1	ASI-001 - DESIGN COORDINATION	2025/09/26
2	ASI-002 - DESIGN COORDINATION	2025/10/24

DATE:	2025/04/18
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DRAWN:	JV, LL
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JOB NUMBER:	6406.24.0003

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:

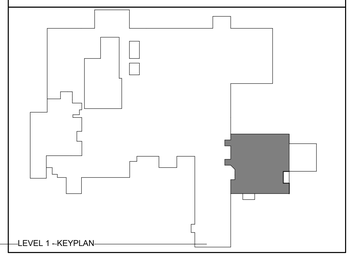
REFER TO SPECIFICATIONS FOR GYP BD REQUIREMENTS AT STC >40 CONDITIONS.

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



1 DIMENSION PLAN - LEVEL 1
1/8" = 1'-0"

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REGISTERED ARCHITECT
NUMBER 027703
DATE SIGNED: 09.26.25

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JOB NUMBER:	6406.24.0003

DIMENSION FLOOR PLAN - LEVEL 1

AE102

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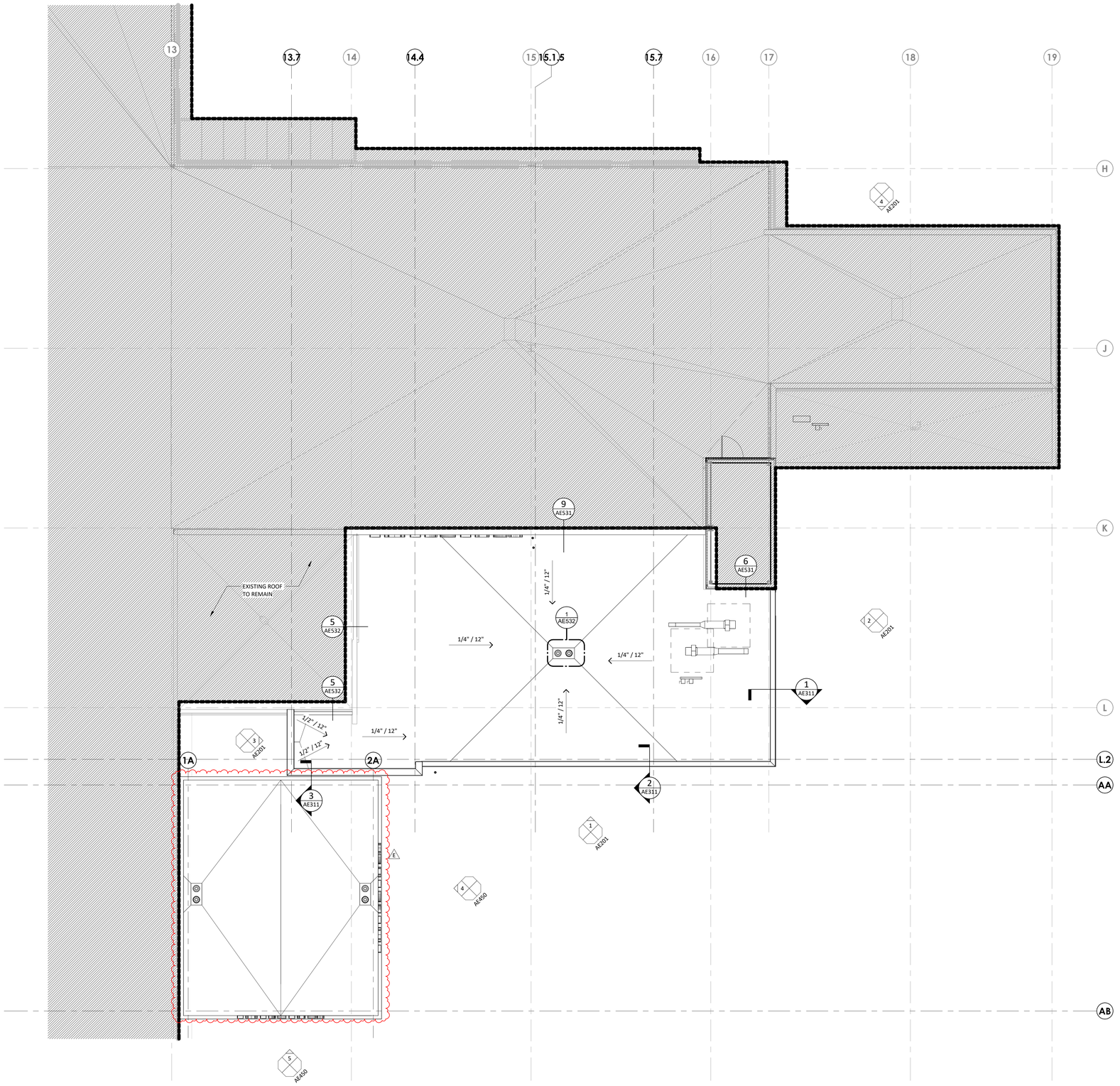


1 OVERALL ROOF PLAN
1/8" = 1'-0"

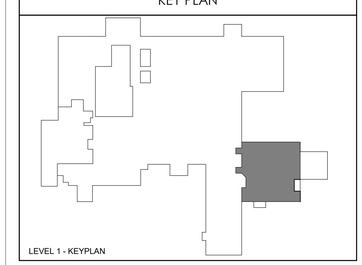
ROOF PLANS GENERAL NOTES

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



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DUDLEY C. CAMPBELL
NUMBER A-2007038447

DATE SIGNED: 07.30.25

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OVERALL ROOF PLAN

AE111

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1 EDGE-OF-SLAB PLAN - OVERALL - LEVEL 1
1/4" = 1'-0"

EDGE OF SLAB GENERAL NOTES

1. REFER TO STRUCTIRAL FOR FLOOR JOINTS IN SLAB AND FOOTINGS.
2. REFER TO OVERALL STRUCTURAL FRAMING PLANS FOR DECK TYPE AND LOCATIONS, AND EQUIPMENT PAD DETAILS. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT PAD SIZE AND LOCATIONS.
3. REFER TO PLUMBING FOR UNDERGROUND CONNECTIONS.

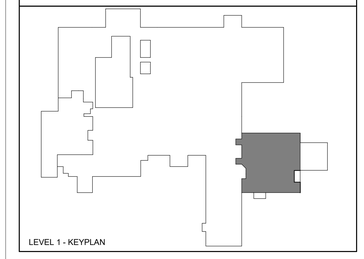
EDGE OF SLAB LEGEND

- EXISTING FLOOR SLAB. REFER TO STRUCTURAL DRAWING.
- NEW FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
- SLAB DEPRESSION. NEW FLOOR SLAB, REFER TO STRUCTURAL DRAWINGS.

KEYNOTE LEGEND

KEY	NOTE

KEY PLAN



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Consultant:

DATE SIGNED: 04.18.25

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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

DATE:	2025/04/18
SCALE:	1/4" = 1'-0"
DRAWN:	JV
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

EDGE-OF-SLAB PLAN - LEVEL 1

AE141

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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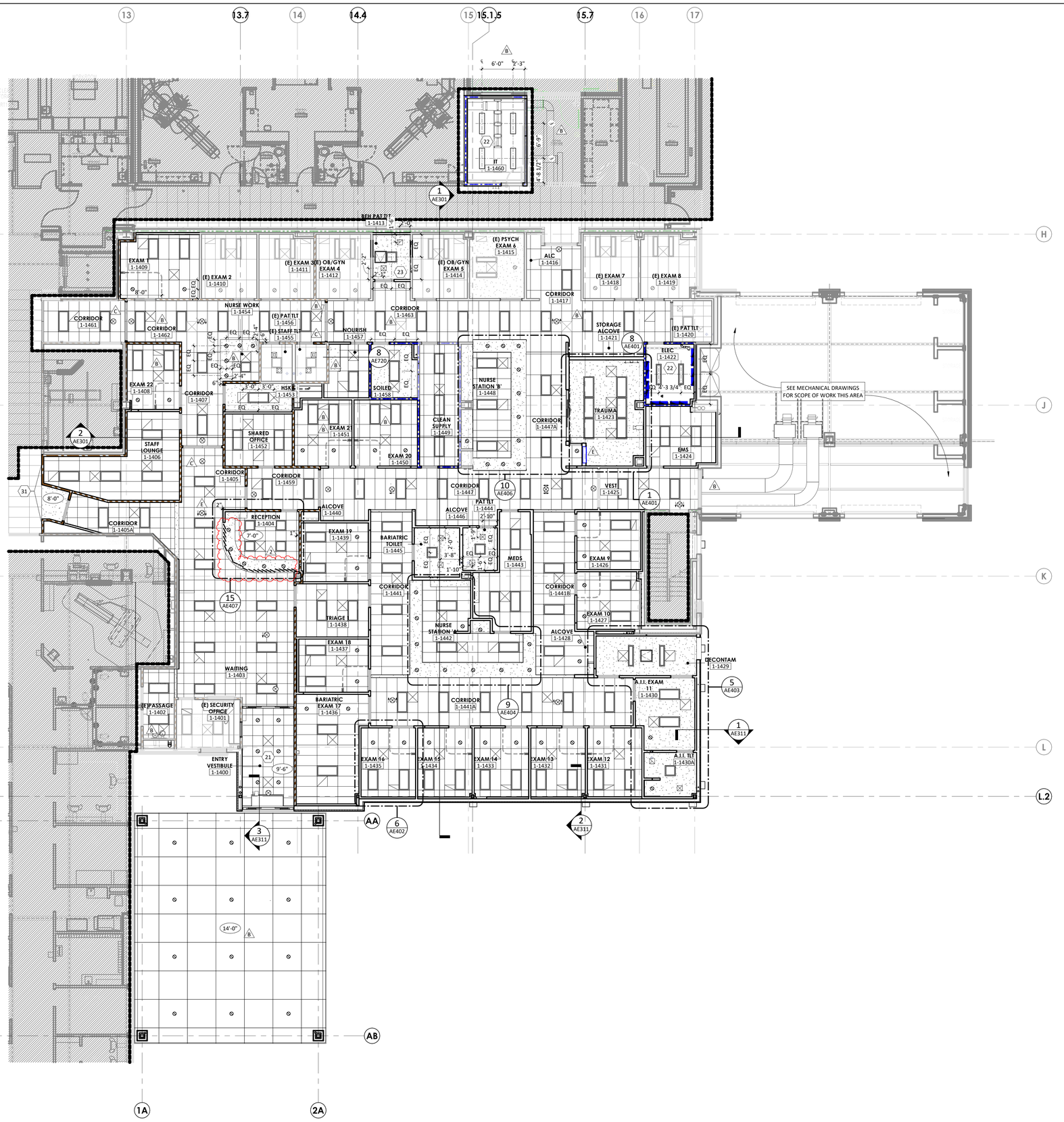


1 REFLECTED CEILING PLAN - LEVEL 1
1/8" = 1'-0"

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

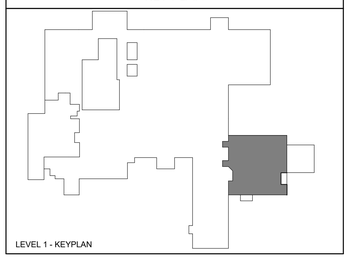
EXISTING	NEW	
		NON-RATED PARTITION
		2-HOUR FIRE BARRIER
		1-HOUR FIRE BARRIER
		1-HOUR SMOKE BARRIER
		SMOKE PARTITION
		1-HOUR FIRE PARTITION

LIMITS OF CONSTRUCTION (SHADE INDICATES AREA OUTSIDE OF SCOPE)

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



Devenney GROUP

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Consultant:

DUDLEY C. CAMPBELL
NUMBER 8-20210045-49
REGISTERED ARCHITECT

DATE SIGNED: 10.24.25

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ED EXPANSION

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

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.

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
2	ASI-002 - DESIGN COORDINATION	2025/10/24

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

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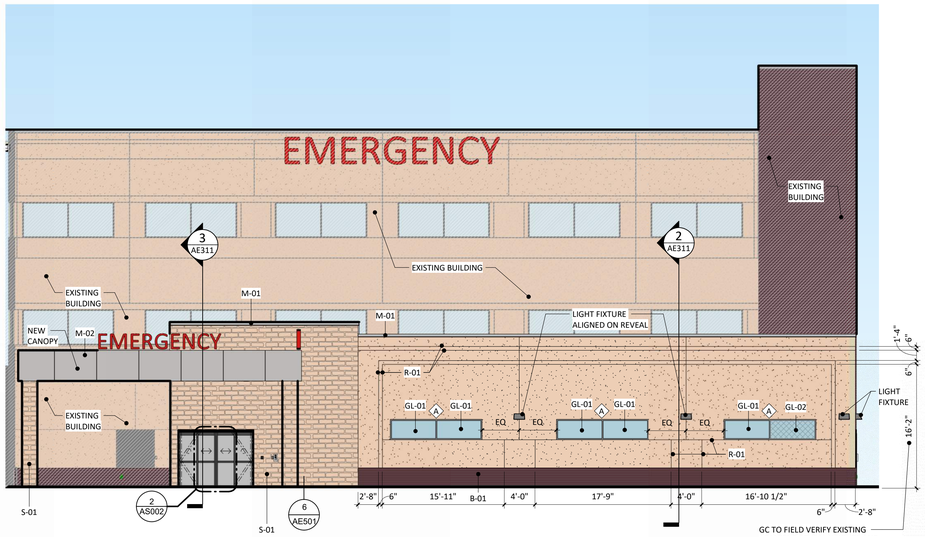
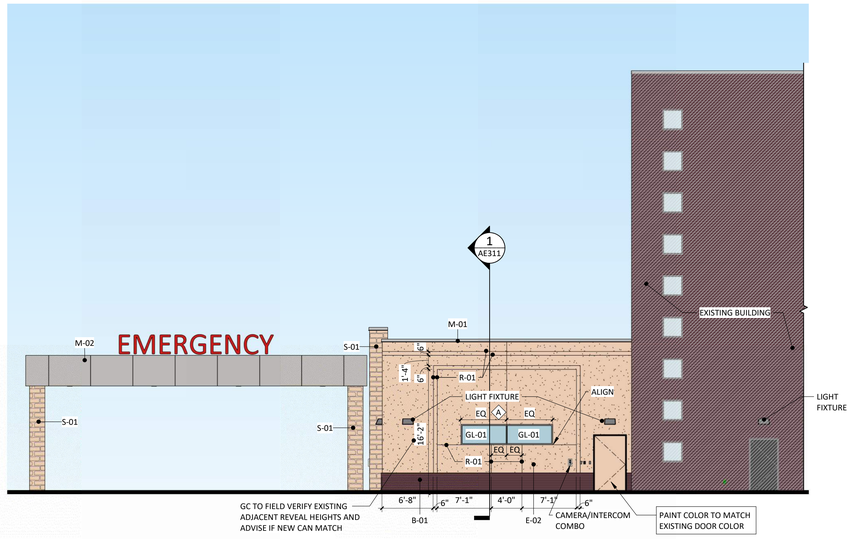


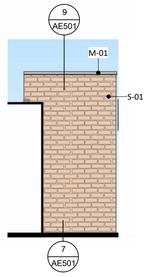
1 SOUTH ELEVATION
1/8" = 1'-0"



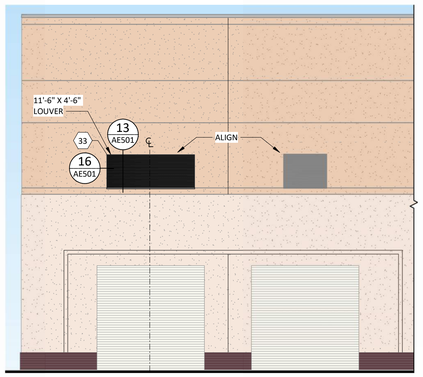
2 EAST ELEVATION
1/8" = 1'-0"

MATERIAL LEGEND		
	GL-01	
	PRODUCT:	VISION INSULATED GLAZING UNIT
	MFR:	TBD
	FINISH:	MATCH EXISTING
	GL-02	
	PRODUCT:	SPANDREL INSULATED GLAZING UNIT
	MFR:	TBD
	FINISH:	MATCH EXISTING
	E-02	
	PRODUCT:	EXTERIOR INSULATION FINISH SYSTEM COLOR 2
	MFR:	TBD
	FINISH:	MATCH EXISTING
	B-01	
	PRODUCT:	THIN BRICK VENEER
	MFR:	TBD
	FINISH:	MATCH EXISTING
	M-01	
	PRODUCT:	PREFINISHED METAL COPING
	MFR:	TBD
	FINISH:	MATCH EXISTING
	M-02	
	PRODUCT:	METAL CANOPY
	MFR:	TBD
	FINISH:	MATCH EXISTING
	R-01	
	PRODUCT:	EIFS AND STONE REVEAL
	MFR:	TBD
	FINISH:	MATCH EXISTING
	S-01	
	PRODUCT:	STONE VENEER
	MFR:	TBD
	FINISH:	MATCH EXISTING

KEYNOTE LEGEND	
KEY	**NOTE**
33	LOUVER TO PROVIDE A MINIMUM OF 22 SQFT OF OPEN AIR, REFER TO MECHANICAL DRAWINGS FOR OPEN AIR REQUIREMENTS. LOUVER MANUFACTURER AND FINISH TO MATCH EXISTING ADJACENT LOUVER.



3 WEST ELEVATION
1/8" = 1'-0"



4 NORTH ELEVATION - AMBULANCE GARAGE
1/8" = 1'-0"

5 ED EXPANSION - SOUTHEAST VIEW

Devenney GROUP

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DATE SIGNED: 06.05.25

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ED EXPANSION

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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
B	DESIGN COORDINATION	2025/06/05

DATE:	2025/04/18
SCALE:	1/8" = 1'-0"
DRAWN:	LL
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

EXTERIOR BUILDING ELEVATIONS

AE201

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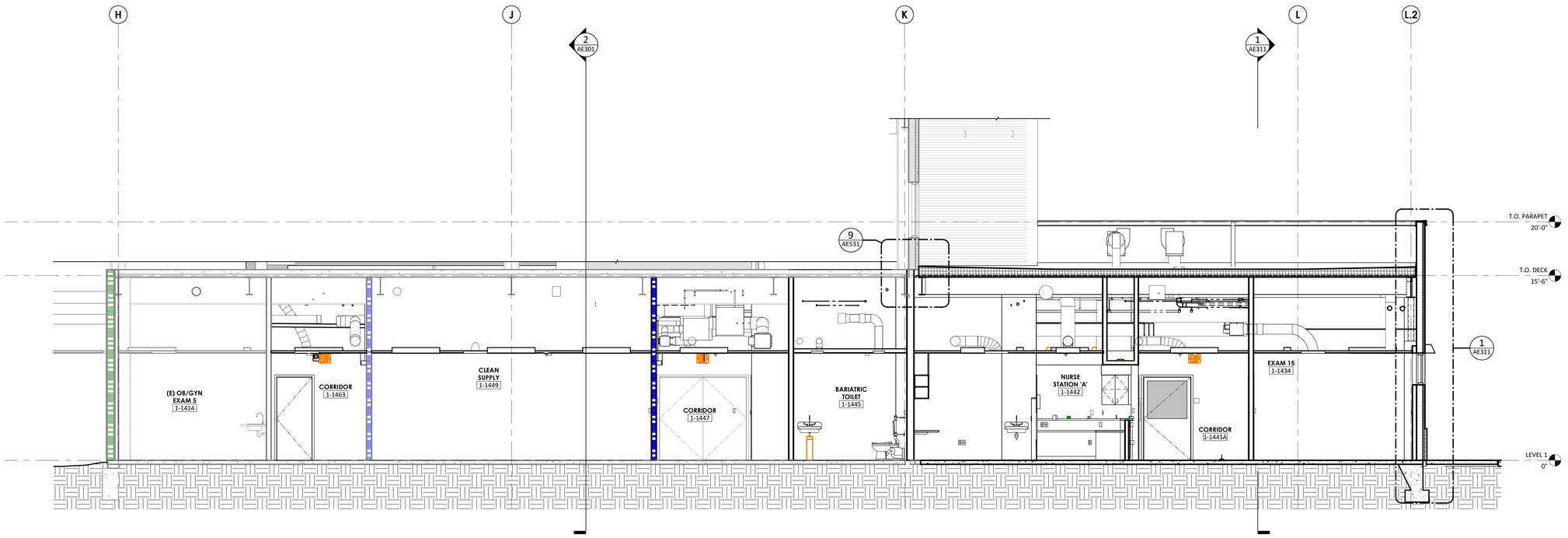
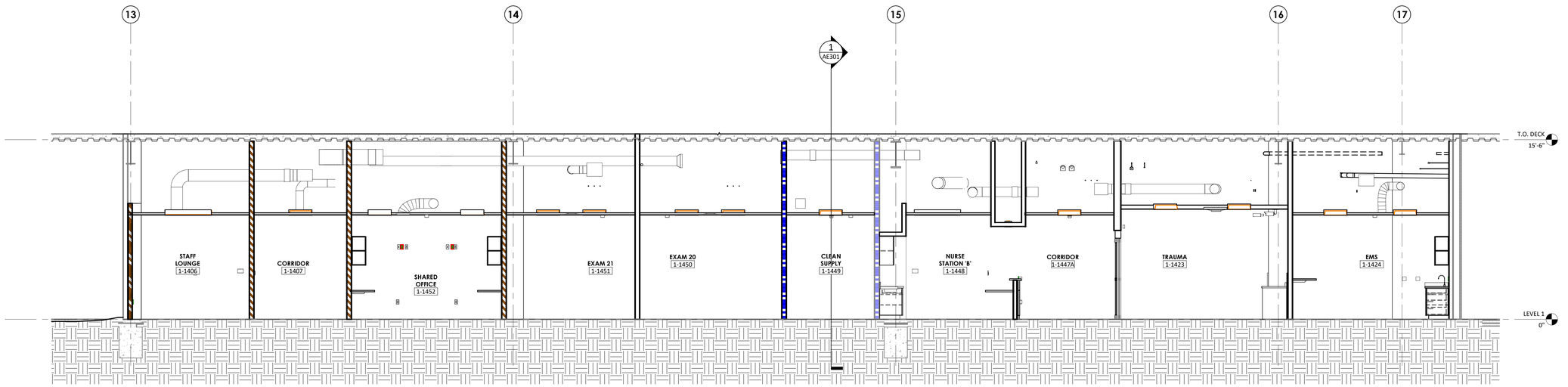


1 BUILDING SECTION 1
1/4" = 1'-0"



2 BUILDING SECTION 2
1/4" = 1'-0"

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Consultant:

STATE OF MISSOURI
DUDLEY C. CAMPBELL
NUMBER A-2007000749

DATE SIGNED: 04.18.25

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MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	2025/04/18
SCALE:	1/4" = 1'-0"
DRAWN:	JV, LL
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

BUILDING SECTIONS

AE301

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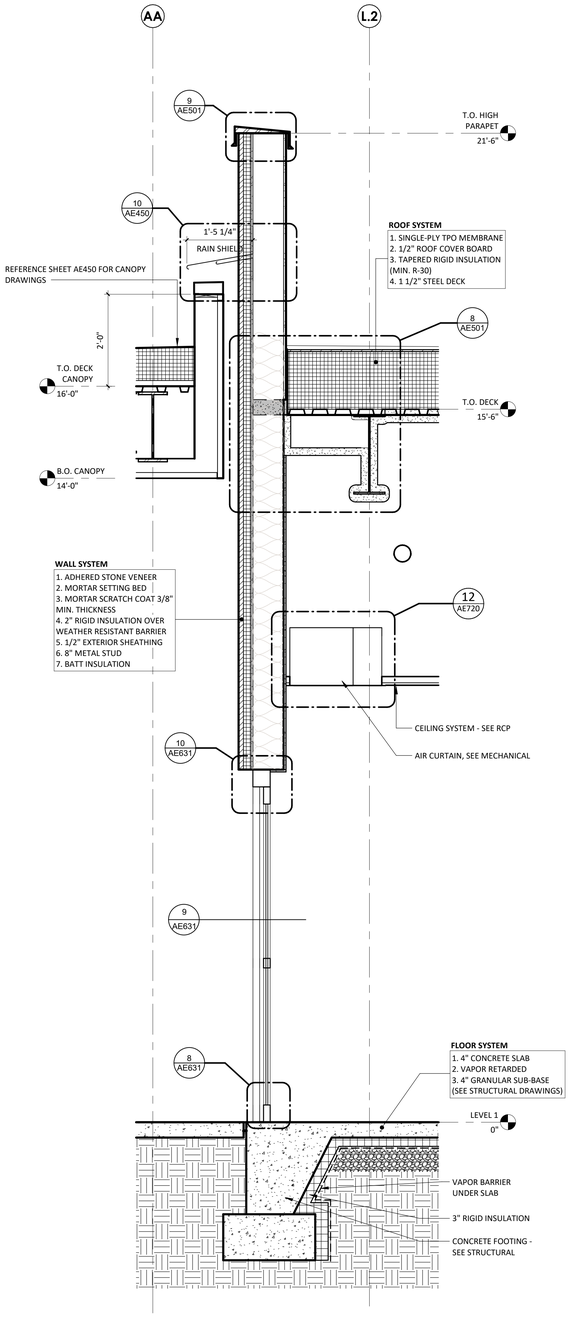
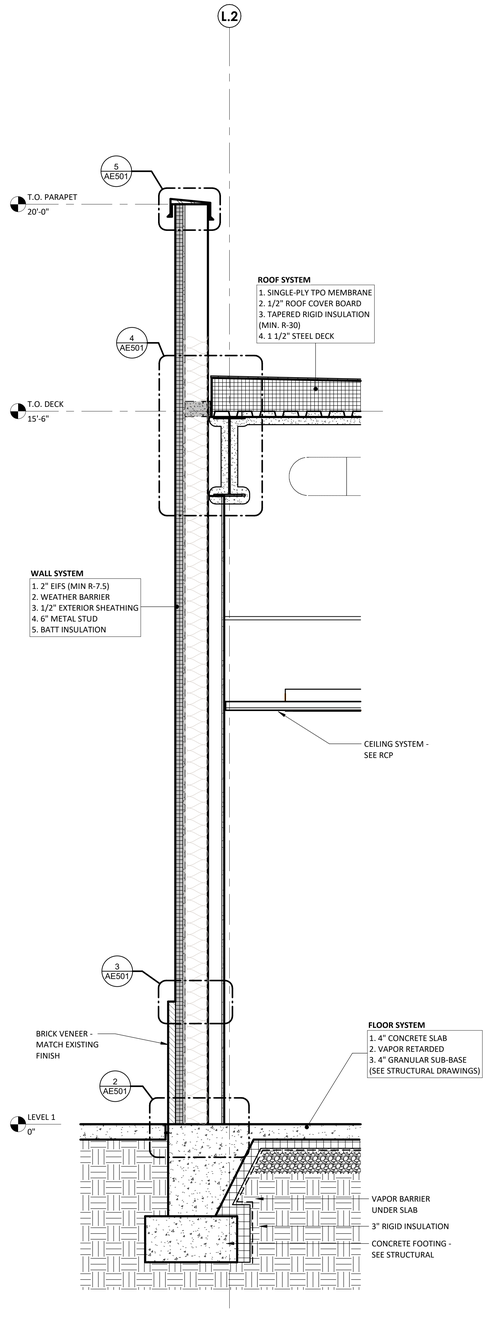


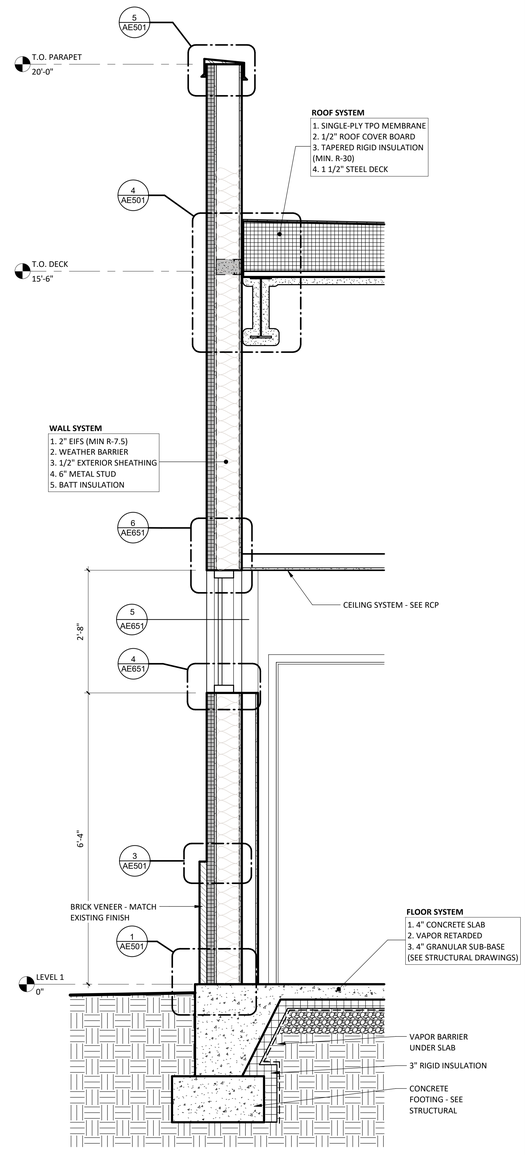
WALL SECTION AT STONE AND CANOPY

3 — 3/4" = 1'-0"



WALL SECTION AT BRICK & EIFS

2 — 3/4" = 1'-0"



WALL SECTION AT BRICK & EIFS AT GRADE

1 — 3/4" = 1'-0"

Devenney Group Ltd., Architects

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ARIZONA
AUDLEY C. CAMPBELL
NUMBER
R - 2021020749
DATE SIGNED: 04.18.25

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ED EXPANSION

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AUTHORITY HAVING JURISDICTION:
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MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	2025/04/18
SCALE:	3/4" = 1'-0"
DRAWN:	JV, LL
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

EXTERIOR WALL SECTIONS

AE311

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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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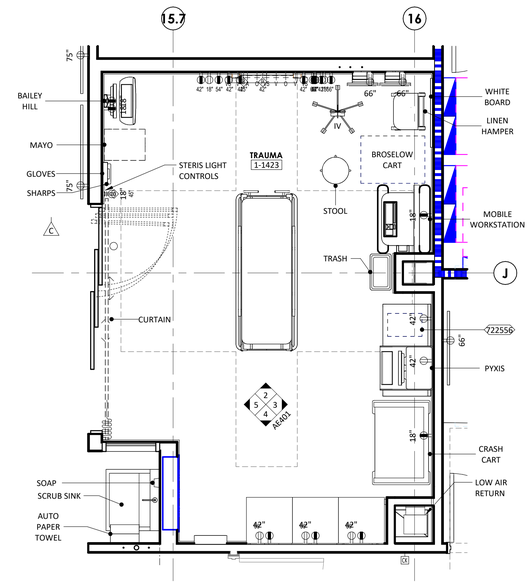
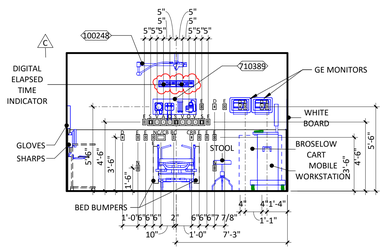
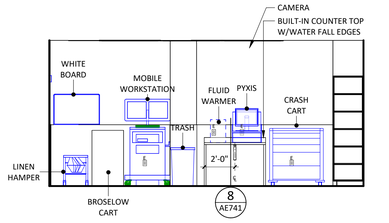


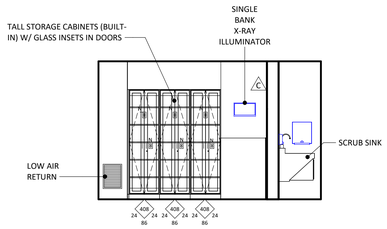
1 TRAUMA
3/8" = 1'-0"



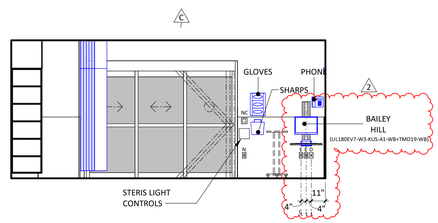
2 TRAUMA - A
1/4" = 1'-0"



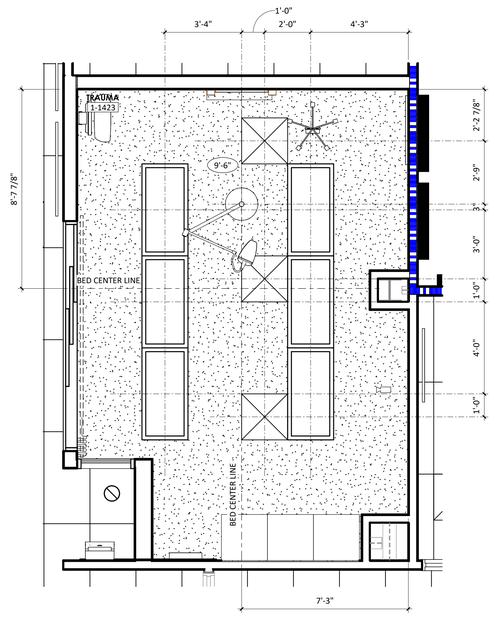
3 TRAUMA - B
1/4" = 1'-0"



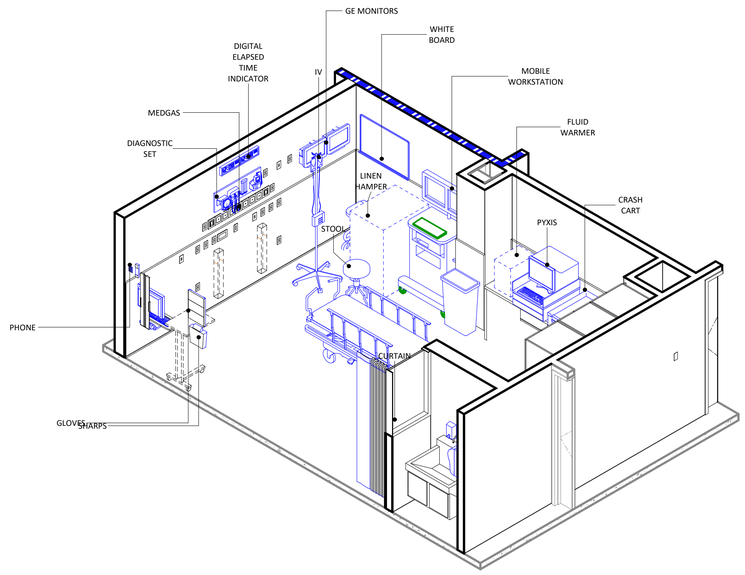
4 TRAUMA - C
1/4" = 1'-0"



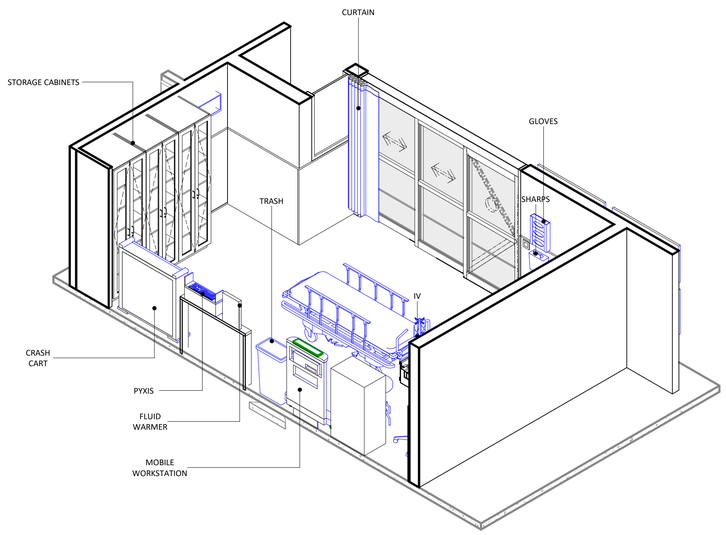
5 TRAUMA - D
1/4" = 1'-0"



8 TRAUMA ROOM - RCP
3/8" = 1'-0"



AXO - TRAUMA ROOM - HEADWALL
6



7 TRAUMA ROOM - FOOTWALL

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.
4. SOLID GRAY INFORMATION INDICATES PRE-FABRICATED COMPONENTS BY OWNER VENDOR. REFER TO VENDOR DRAWINGS FOR ADDITIONAL INFORMATION.

INTERIOR ELEVATIONS GENERAL NOTES

1. PROVIDE CONTINUOUS BACKING FOR SURFACE MOUNTED EQUIPMENT, MILLWORK, AND ACCESSORIES.
2. LOCATE MILLWORK GROMMETS IN FIELD PER OWNER.
3. EXPOSED MILLWORK SURFACES SHALL BE FINISHED.
4. MOUNT EQUIPMENT, FIXTURES, AND ACCESSORIES ACCORDING TO THE TYPICAL MOUNTING HEIGHTS SHEET, UNLESS NOTED OTHERWISE.
5. PROVIDE WATER RESISTANT GYPSUM BOARD AT WET WALL CONDITIONS.
6. PROVIDE COUNTERTOP SUPPORTS AT OPEN KNEESPACE LOCATION. INSTALL AT 32" ON CENTER MAXIMUM.
7. ALL CASEWORK TO HAVE 3" FILLER AT ADJACENT PARTITION UNLESS DIMENSIONED OTHERWISE.
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
MATCH EXISTING	BAILEY HILL	BAILEY HILL WALL MOUNTED WORKSTATION	OF	CI

2

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Consultant:

DUDLEY C. CAMPBELL
NUMBER E-2021026549
REGISTERED ARCHITECT
DATE SIGNED: 10.24.25

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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

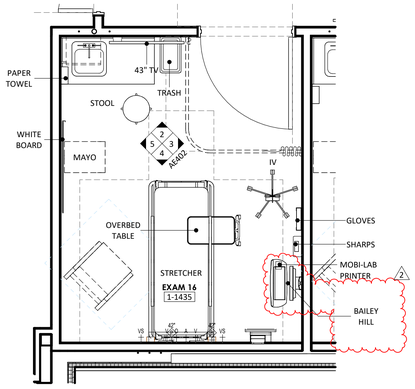
REVISIONS		
REV #	DESCRIPTION	DATE
C	STATE - 2ND REVIEW	2025/07/30
2	ASI-002 - DESIGN COORDINATION	2025/10/24

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

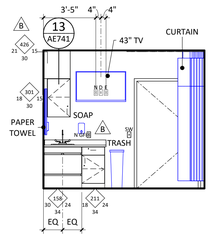
ENLARGED PLANS, INTERIOR ELEVATIONS & 3D VIEWS - TRAUMA

AE401

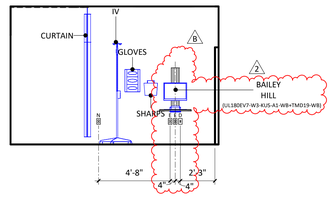
Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.
Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/6406.24.0003 HCA - LSMC ED Expansion_R23.rvt
11/5/2025 11:26:03 AM



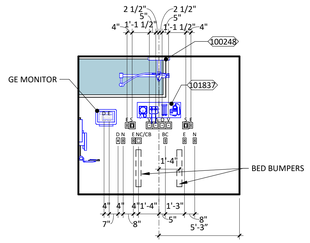
1 TYPICAL EXAM PLAN
3/8" = 1'-0"



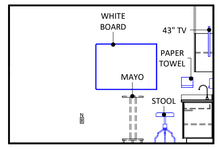
2 TYP EXAM - FOOTWALL
1/4" = 1'-0"



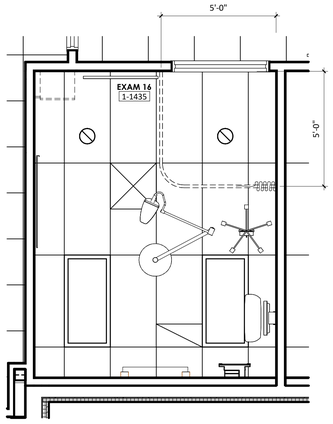
3 TYP EXAM - STAFF
1/4" = 1'-0"



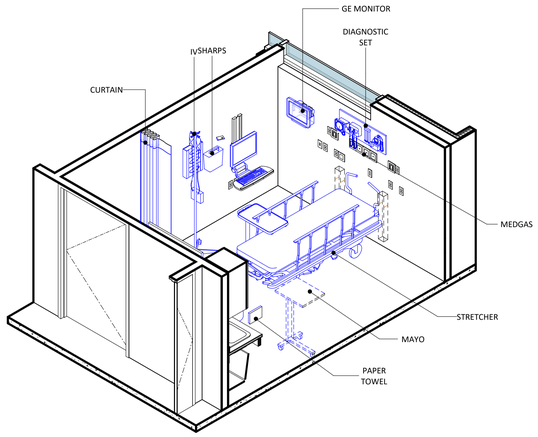
4 TYP EXAM - HEADWALL
1/4" = 1'-0"



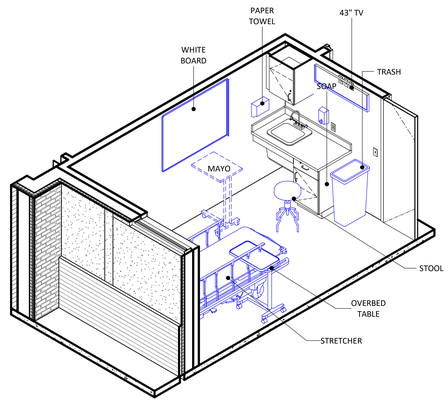
5 TYP EXAM - FAMILY
1/4" = 1'-0"



6 TYPICAL EXAM RCP
3/8" = 1'-0"



7 TYPICAL EXAM - HEADWALL



8 TYPICAL EXAM - FOOTWALL

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.
4. SOLID GRAY INFORMATION INDICATES PRE-FABRICATED COMPONENTS BY OWNER VENDOR. REFER TO VENDOR DRAWINGS FOR ADDITIONAL INFORMATION.

INTERIOR ELEVATIONS GENERAL NOTES

1. PROVIDE CONTINUOUS BACKING FOR SURFACE MOUNTED EQUIPMENT, MILLWORK, AND ACCESSORIES.
2. LOCATE MILLWORK GROMMETS IN FIELD PER OWNER.
3. EXPOSED MILLWORK SURFACES SHALL BE FINISHED.
4. MOUNT EQUIPMENT, FIXTURES, AND ACCESSORIES ACCORDING TO THE TYPICAL MOUNTING HEIGHTS SHEET, UNLESS NOTED OTHERWISE.
5. PROVIDE WATER RESISTANT GYPSUM BOARD AT WET WALL CONDITIONS.
6. PROVIDE COUNTERTOP SUPPORTS AT OPEN KNEESPACE LOCATION. INSTALL AT 32" ON CENTER MAXIMUM.
7. ALL CASEWORK TO HAVE 3" FILLER AT ADJACENT PARTITION UNLESS DIMENSIONED OTHERWISE.
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**
	101837	**DIAGNOSTIC SET**	**10_ SPEQ_ Diagnostic Set_ FB_ v01**	**OF**	**CI**
2	**MATCH EXISTING**	**BAILEY HILL**	**BAILEY HILL WALL MOUNTED WORKSTATION**	**OF**	**CI**

Devenney Group Ltd., Architects

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T: 602.943.8950

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Consultant:

DUDLEY C. CAMPBELL
NUMBER
E - 20210062-49
ARIZONA

DATE SIGNED: 10.24.25

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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
2	ASI-002 - DESIGN COORDINATION	2025/10/24

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

ENLARGED PLANS, INTERIOR ELEVATIONS & 3D VIEWS - TYPICAL EXAM ROOM

AE402

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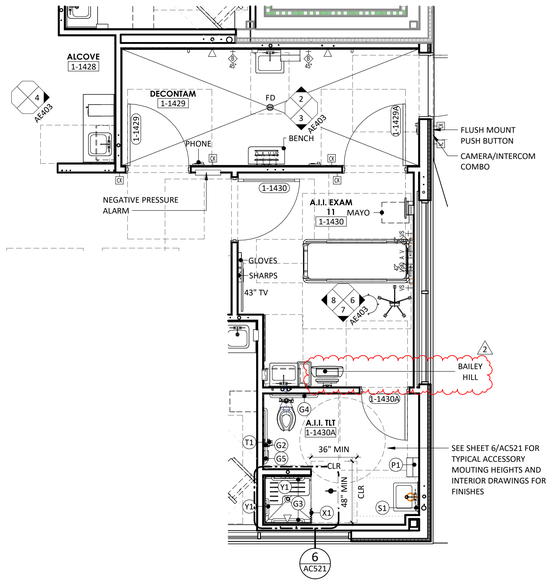
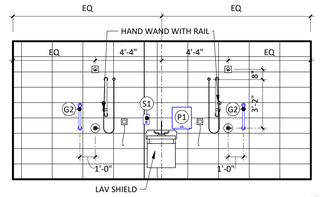
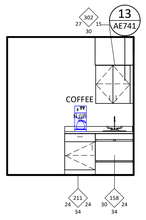


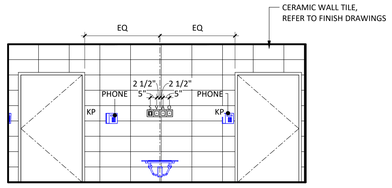
1 A.I.I. EXAM, DECON, NOURISH
1/4" = 1'-0"



2 DECON - SHOWER WALL
1/4" = 1'-0"



4 ALCOVE
1/4" = 1'-0"



3 DECON - MED GAS
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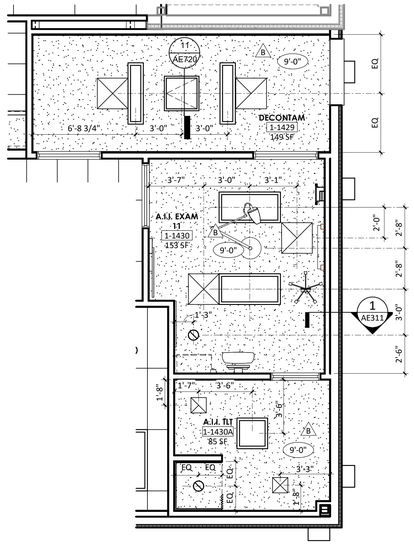
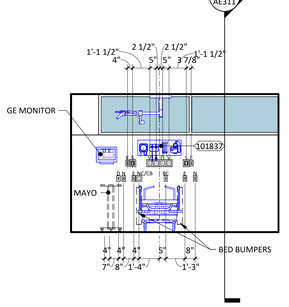
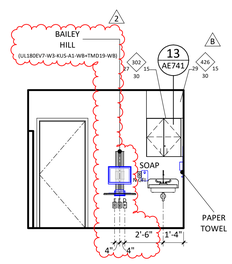


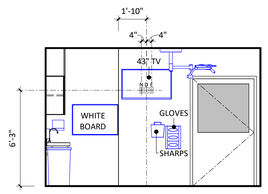
5 A.I.I. EXAM, DECON, NOURISH - ENLARGED RCP
1/4" = 1'-0"



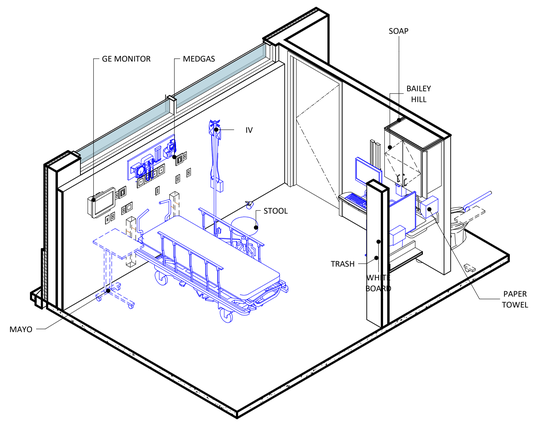
6 A.I.I. EXAM - HEADWALL
1/4" = 1'-0"



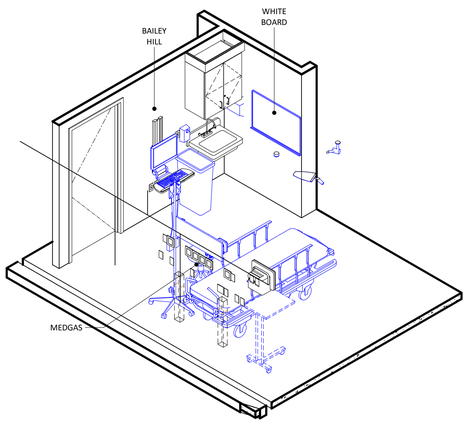
7 A.I.I. EXAM - STAFF
1/4" = 1'-0"



8 A.I.I. EXAM - FOOTWALL
1/4" = 1'-0"



9 A.I.I. EXAM - HEADWALL



10 A.I.I. EXAM - FOOTWALL

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OFCI EQUIPMENT SCHEDULE

	HCA EQUIP NO	ABBREV	DESCRIPTION	FURNISHED BY	INSTALLED BY
	100248	SURGICAL LIGHT	Maquet_LED_Surgical_Light	OF	CI
	101837	DIAGNOSTIC SET	10_ SPEQ_ Diagnostic Set_ FB_ v01	OF	CI
2	MATCH EXISTING	BAILEY HILL	BAILEY HILL WALL MOUNTED WORKSTATION	OF	CI

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Consultant:

DUDLEY C. CAMPBELL
NUMBER E-2021005549
REGISTERED ARCHITECT

DATE SIGNED: 10.24.25

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AGENCY

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REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05
2	ASI-002 - DESIGN COORDINATION	2025/10/24

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 - A.I.I.

AE403

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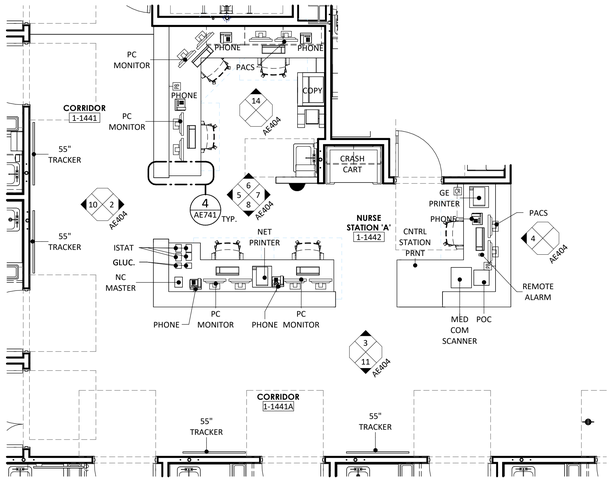
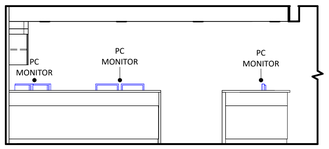
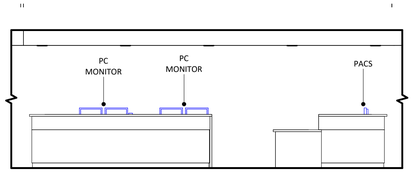


1 NURSE STATION 'A'
1/4" = 1'-0"



2 NURSE STATION 'A' - SIDE
1/4" = 1'-0"



3 NURSE STATION 'A' - FRONT
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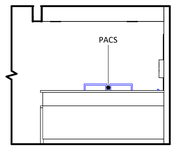
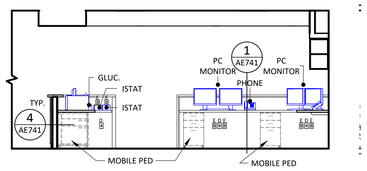
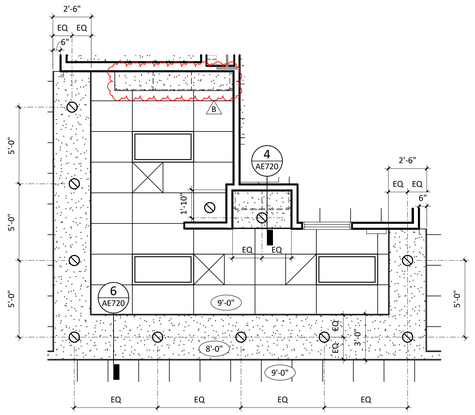


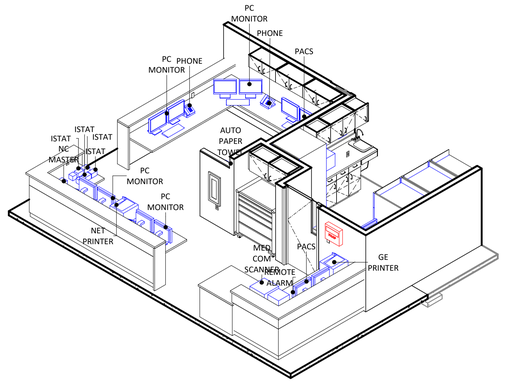
4 NURSE STATION 'A' - SIDE
1/4" = 1'-0"



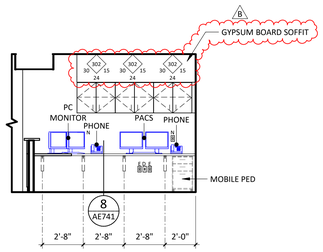
5 NURSE STATION 'A'
1/4" = 1'-0"



NURSE STATION 'A' - ENLARGED RCP
9 1/4" = 1'-0"



12 AXON - NURSE STATION A



14 NURSE STATION 'A" - 1
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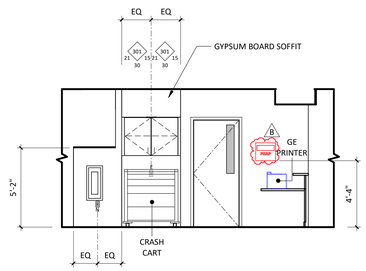
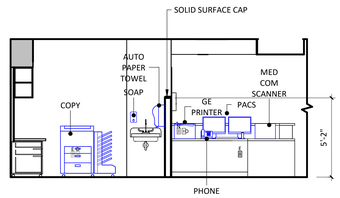
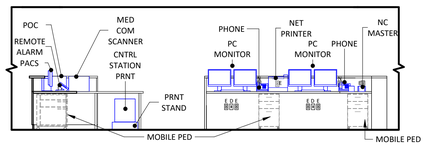


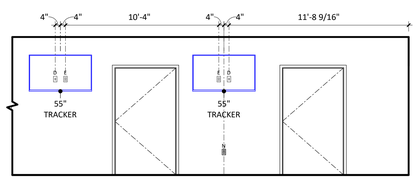
6 NURSE STATION 'A'
1/4" = 1'-0"



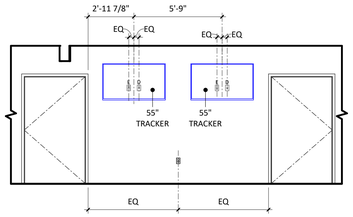
7 NURSE STATION 'A'
1/4" = 1'-0"



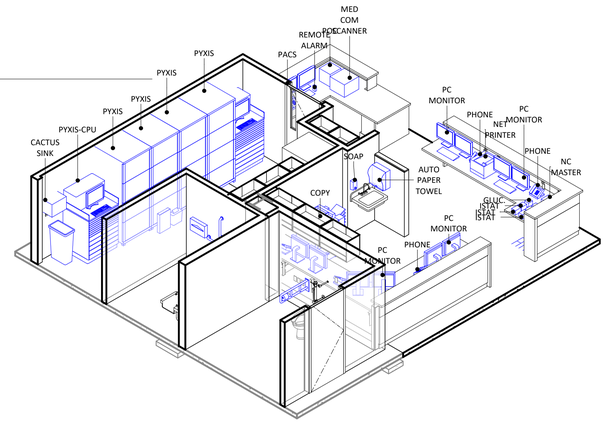
8 NURSE STATION 'A'
1/4" = 1'-0"



11 CORRIDOR - NURSE STATION 'A'
1/4" = 1'-0"



10 CORRIDOR - NURSE STATION 'A'
1/4" = 1'-0"



13 AXON - NURSE STATION A

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.
4. SOLID GRAY INFORMATION INDICATES PRE-FABRICATED COMPONENTS BY OWNER VENDOR. REFER TO VENDOR DRAWINGS FOR ADDITIONAL INFORMATION.

INTERIOR ELEVATIONS GENERAL NOTES

1. PROVIDE CONTINUOUS BACKING FOR SURFACE MOUNTED EQUIPMENT, MILLWORK, AND ACCESSORIES.
2. LOCATE MILLWORK GROMMETS IN FIELD PER OWNER.
3. EXPOSED MILLWORK SURFACES SHALL BE FINISHED.
4. MOUNT EQUIPMENT, FIXTURES, AND ACCESSORIES ACCORDING TO THE TYPICAL MOUNTING HEIGHTS SHEET, UNLESS NOTED OTHERWISE.
5. PROVIDE WATER RESISTANT GYPSUM BOARD AT WET WALL CONDITIONS.
6. PROVIDE COUNTERTOP SUPPORTS AT OPEN KNEESPACE LOCATION. INSTALL AT 32" ON CENTER MAXIMUM.
7. ALL CASEWORK TO HAVE 3" FILLER AT ADJACENT PARTITION UNLESS DIMENSIONED OTHERWISE.
8. ALL CASEWORK COUNTERTOPS TO OVERHANG CABINET BY 1".

OFCI EQUIPMENT SCHEDULE

HCA EQUIP NO	ABBREV	DESCRIPTION	FURNISHED BY	INSTALLED BY
100912	CACTUS SINK	CACTUS SINK	OF	CI
727581	REF	727581-Pharm RH-glass door	OF	CI
730444	REMOTE ALARM	730444 - Remote Alarm	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:

DUDLEY C. CAMPBELL
NUMBER E-2021000549
REGISTERED ARCHITECT

DATE SIGNED: 06.05.25

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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

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 - NURSE STATION 'A'

AE404

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Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_xyz123/6406.24.0003 HCA - LSMC ED Expansion_R23.rvt

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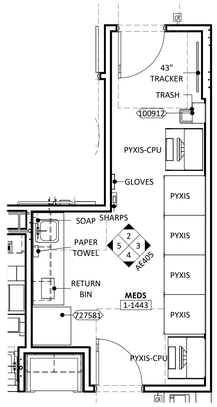
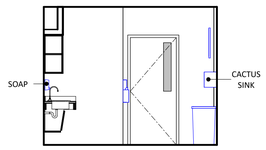
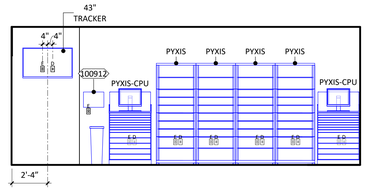


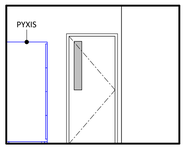
1 MEDS
1/4" = 1'-0"



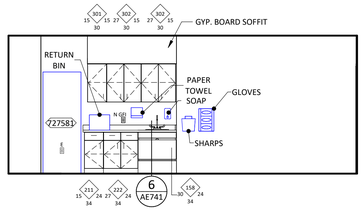
2 MEDS
1/4" = 1'-0"



3 MEDS
1/4" = 1'-0"



4 MEDS
1/4" = 1'-0"



5 MEDS
1/4" = 1'-0"

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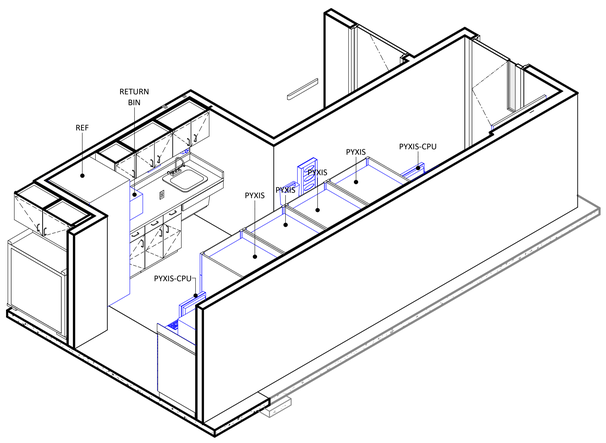
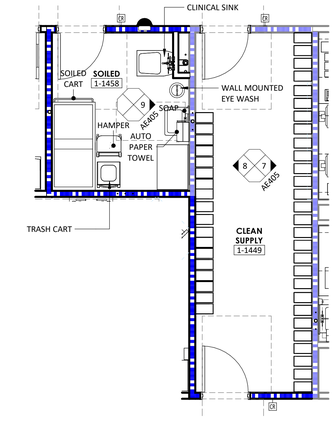
OFCI EQUIPMENT SCHEDULE

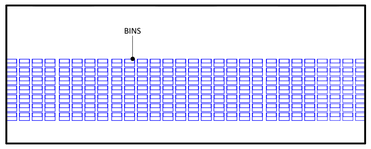
HCA EQUIP NO	ABBREV	DESCRIPTION	FURNISHED BY	INSTALLED BY
100912	CACTUS SINK	CACTUS SINK	OF	CI
101534	MICRO	MICRO	OF	CI
101869	REF	30" x 32" LH	OF	CI
102160	ICE STAND	102160 - Ice Maker Stand w/ Filter System wider	OF	CI
714443	ICE DISPENSER	10_ SPEQ_ Ice Maker_ FB_ v01	OF	CI
727553	COFFEE	10_ SPEQ_ Coffee Maker Small_ FB_ v01 2	OF	CI
727581	REF	727581-Pharm RH-glass door	OF	CI



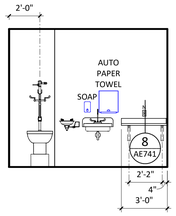
13 MEDS



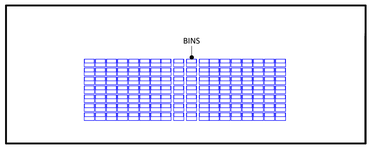
6 SOILED & CLEAN SUPPLY
1/4" = 1'-0"



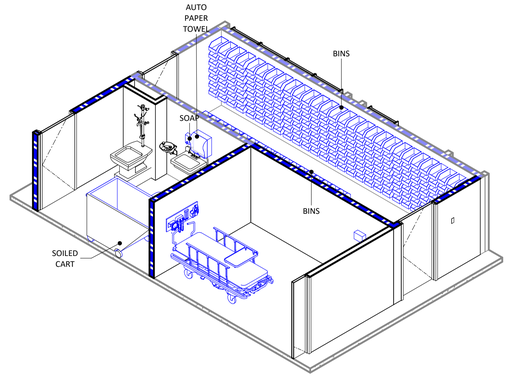
7 CLEAN SUPPLY
1/4" = 1'-0"



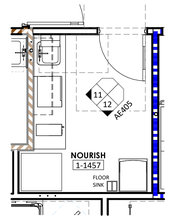
9 SOILED
1/4" = 1'-0"



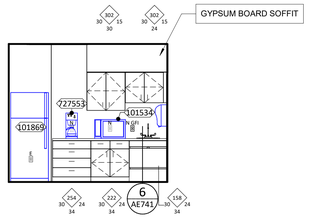
8 CLEAN SUPPLY
1/4" = 1'-0"



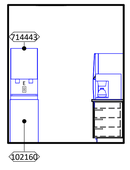
14 CLEAN SUPPLY / SOILED



10 NOURISH
1/4" = 1'-0"



11 NOURISH A
1/4" = 1'-0"



12 NOURISH B
1/4" = 1'-0"

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

REGISTERED ARCHITECT
MUDLEY CAMPBELL
NUMBER
DATE SIGNED: 04.18.25

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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

DATE:	2025/04/18
SCALE:	1/4" = 1'-0"
DRAWN:	JV, LL
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

ENLARGED PLANS, INTERIOR ELEVATIONS - MEDS, SOILED, CLEAN, NOURISH

AE405

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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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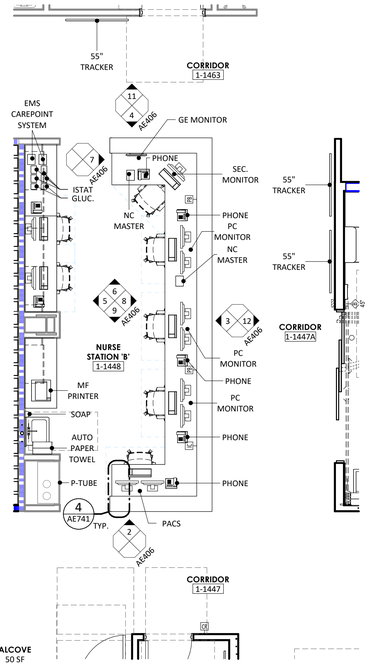
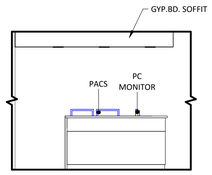
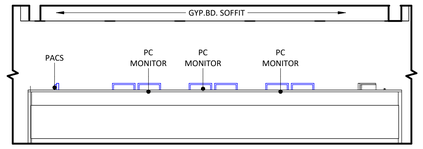


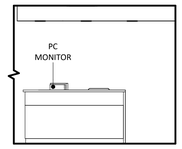
1 NURSE STATION 'B'
1/4" = 1'-0"



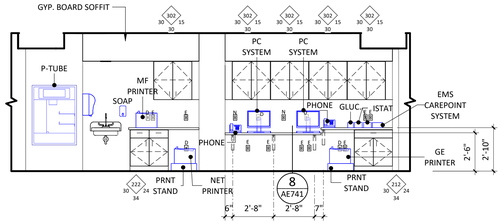
2 NURSE STATION 'B' - SIDE
1/4" = 1'-0"



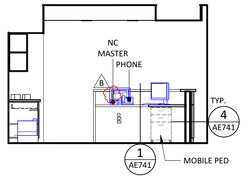
3 NURSE STATION 'B' - FRONT
1/4" = 1'-0"



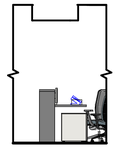
4 NURSE STATION 'B' - SIDE
1/4" = 1'-0"



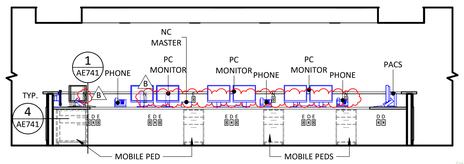
5 NURSE STATION 'B'
1/4" = 1'-0"



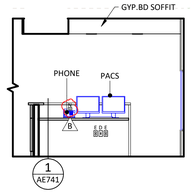
6 NURSE STATION 'B'
1/4" = 1'-0"



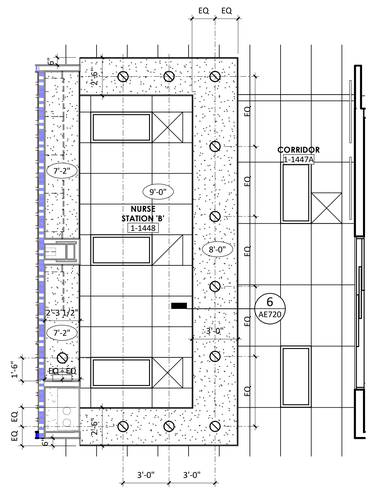
7 NURSE STATION 'B' - END
1/4" = 1'-0"



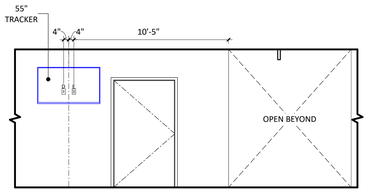
8 NURSE STATION 'B'
1/4" = 1'-0"



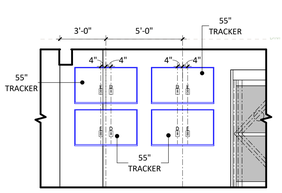
9 NURSE STATION 'B'
1/4" = 1'-0"



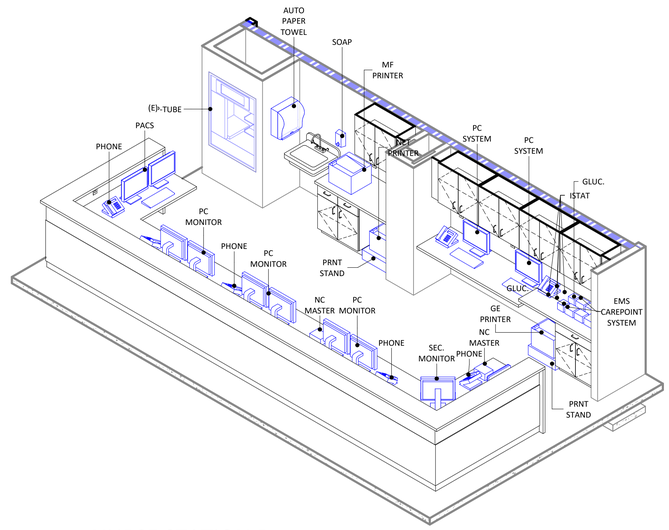
NURSE STATION 'B' - ENLARGED RCP
1/4" = 1'-0"



11 CORRIDOR 'B' - SIDE
1/4" = 1'-0"



12 CORRIDOR 'B' - FRONT
1/4" = 1'-0"



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Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

DUDLEY C. CAMPBELL
REGISTERED ARCHITECT
NUMBER
A-2021005549

DATE SIGNED: 06.05.25

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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

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 - NURSE STATION 'B'

AE406

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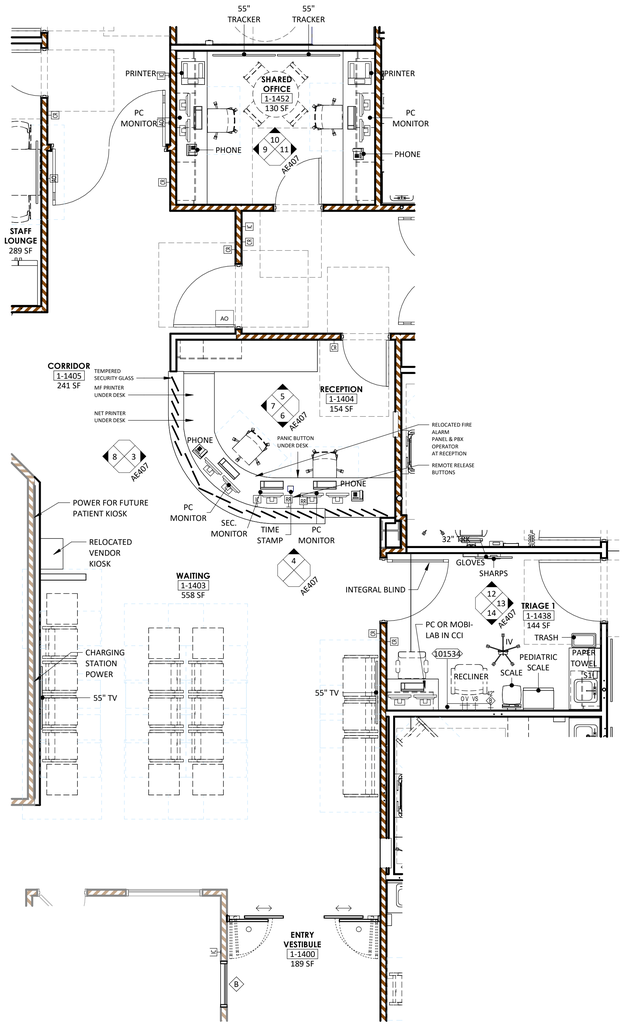
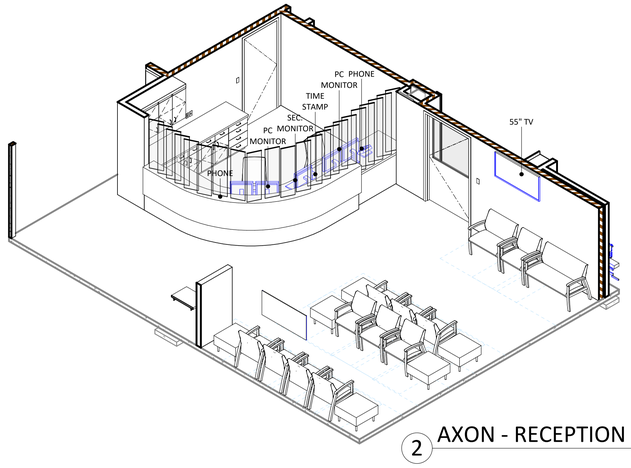
Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center [LSMC]_rvt23/6406.24.0003 HCA - LSMC ED Expansion_R23.rvt

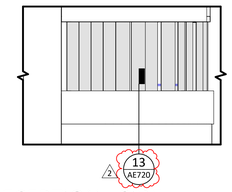
6/23/2025 9:51:15 AM



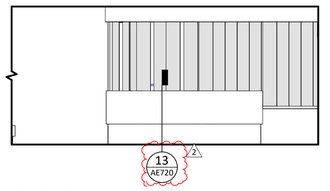
1 RECEPTION & WAITING
1/4" = 1'-0"



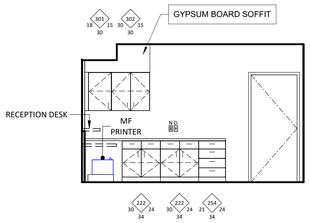
2 AXON - RECEPTION



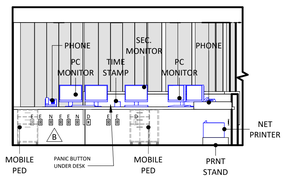
3 RECEPTION - SIDE
1/4" = 1'-0"



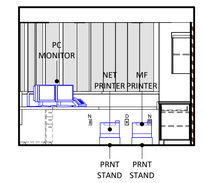
4 RECEPTION - FRONT
1/4" = 1'-0"



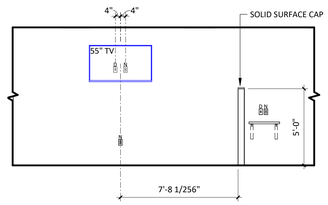
5 RECEPTION
1/4" = 1'-0"



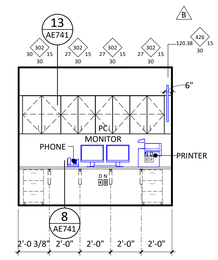
6 RECEPTION
1/4" = 1'-0"



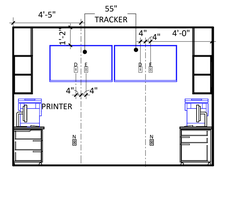
7 RECEPTION
1/4" = 1'-0"



8 WAITING - KIOSK
1/4" = 1'-0"



9 SHARED OFFICE
1/4" = 1'-0"



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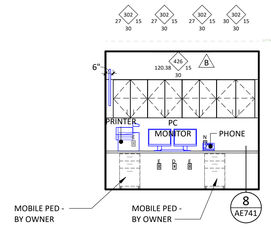
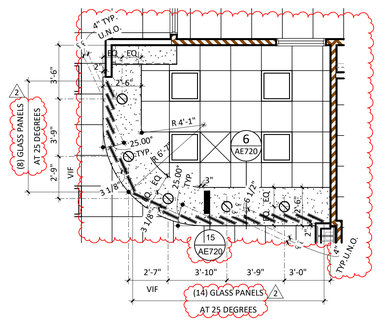
1/4" = 1'-0"



11 SHARED OFFICE - B
1/4" = 1'-0"



15 ENLARGED RECEPTION RCP
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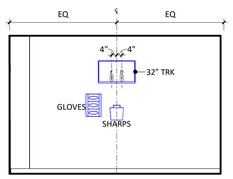
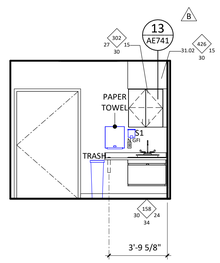
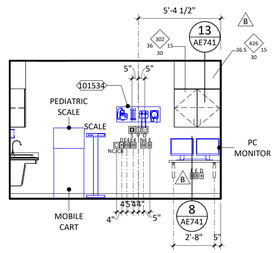


12 TRIAGE
1/4" = 1'-0"



13 TRIAGE
1/4" = 1'-0"



14 TRIAGE
1/4" = 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.
4. SOLID GRAY INFORMATION INDICATES PRE-FABRICATED COMPONENTS BY OWNER VENDOR. REFER TO VENDOR DRAWINGS FOR ADDITIONAL INFORMATION.

INTERIOR ELEVATIONS GENERAL NOTES

1. PROVIDE CONTINUOUS BACKING FOR SURFACE MOUNTED EQUIPMENT, MILLWORK, AND ACCESSORIES.
2. LOCATE MILLWORK GROMMETS IN FIELD PER OWNER.
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5. PROVIDE WATER RESISTANT GYPSUM BOARD AT WET WALL CONDITIONS.
6. PROVIDE COUNTERTOP SUPPORTS AT OPEN KNEESPACE LOCATION. INSTALL AT 32" ON CENTER MAXIMUM.
7. ALL CASEWORK TO HAVE 3" FILLER AT ADJACENT PARTITION UNLESS DIMENSIONED OTHERWISE.
8. ALL CASEWORK COUNTERTOPS TO OVERHANG CABINET BY 1".

OFCI EQUIPMENT SCHEDULE

HCA EQUIP NO	ABBREV	DESCRIPTION	FURNISHED BY	INSTALLED BY
101475	REF	REFRIGERATOR - SIDE BY SIDE	OF	CI
101534	DIAGNOSTIC SET	10_SPEQ_ Diagnostic Set_ FB_ v01	OF	CI
102160	<varies>	<varies>	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:

DUDLEY E. CAMPBELL
NUMBER E-2021009549
REGISTERED ARCHITECT

DATE SIGNED: 10.24.25

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
B	DESIGN COORDINATION	2025/06/05
2	ASI-002 - DESIGN COORDINATION	2025/10/24

DATE:	2025/04/18
SCALE:	1/4" = 1'-0"
DRAWN:	JV, LL
REVIEWED:	DP/MM
JOB NUMBER:	6406.24.0003

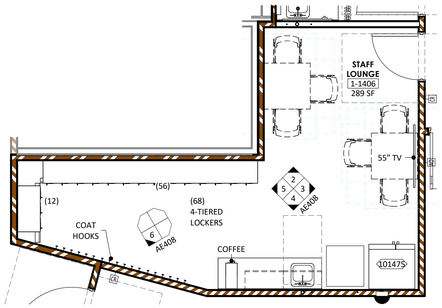
ENLARGED PLANS, INTERIOR ELEVATIONS & 3D VIEWS - RECEPTION, SHARED OFFICE, TRIAGE

AE407

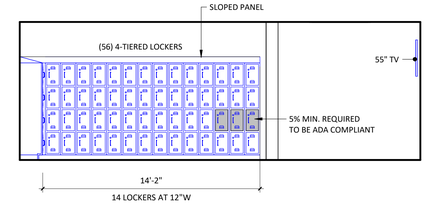
Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

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

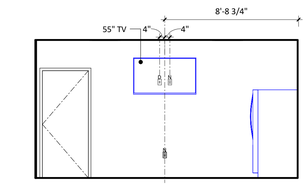
11/6/2025 2:27:23 PM



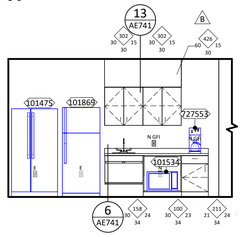
1 STAFF LOUNGE
1/4" = 1'-0"



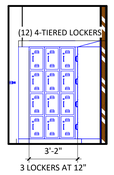
2 STAFF LOUNGE
1/4" = 1'-0"



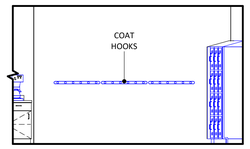
3 STAFF LOUNGE
1/4" = 1'-0"



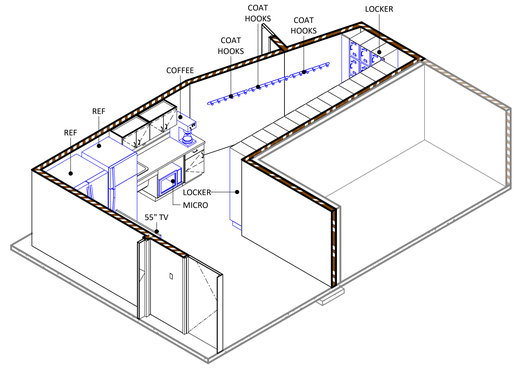
4 STAFF LOUNGE
1/4" = 1'-0"



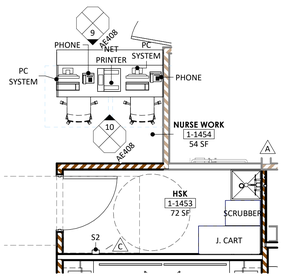
5 STAFF LOUNGE
1/4" = 1'-0"



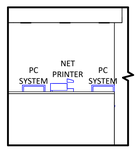
6 STAFF LOUNGE
1/4" = 1'-0"



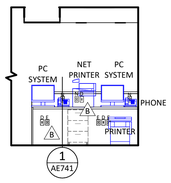
7 STAFF LOUNGE



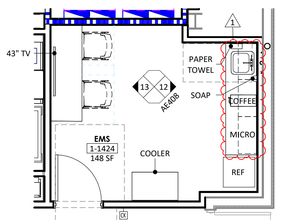
8 NURSE WORK - HSK
1/4" = 1'-0"



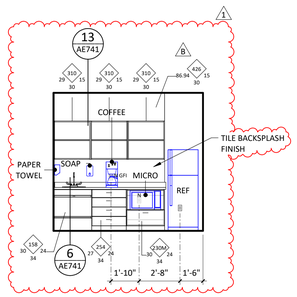
9 NURSE WORK - FRONT
1/4" = 1'-0"



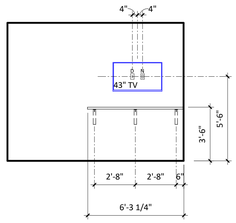
10 NURSE WORK
1/4" = 1'-0"



11 EMS
1/4" = 1'-0"



12 EMS
1/4" = 1'-0"



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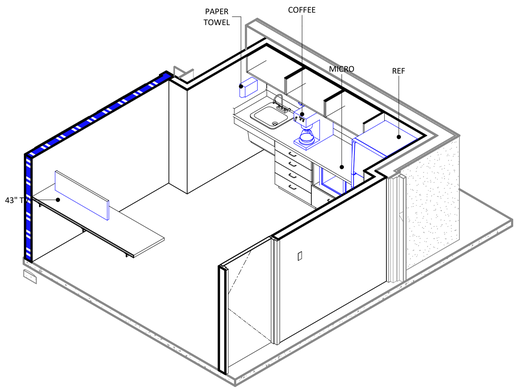
1/4" = 1'-0"



14 EMS

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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
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:

DUDLEY C. CAMPBELL
REGISTERED ARCHITECT
NUMBER A-7710

DATE SIGNED: 09.26.25

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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
1	ASI-001 - DESIGN COORDINATION	2025/09/26

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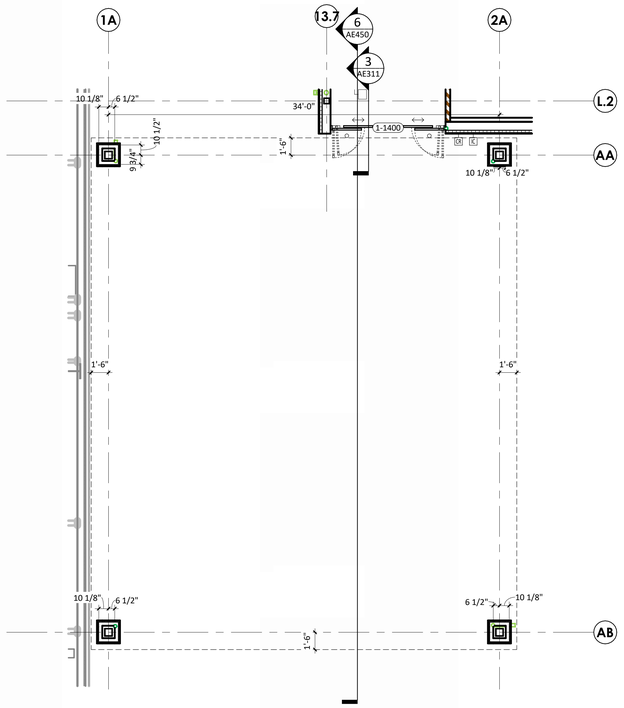
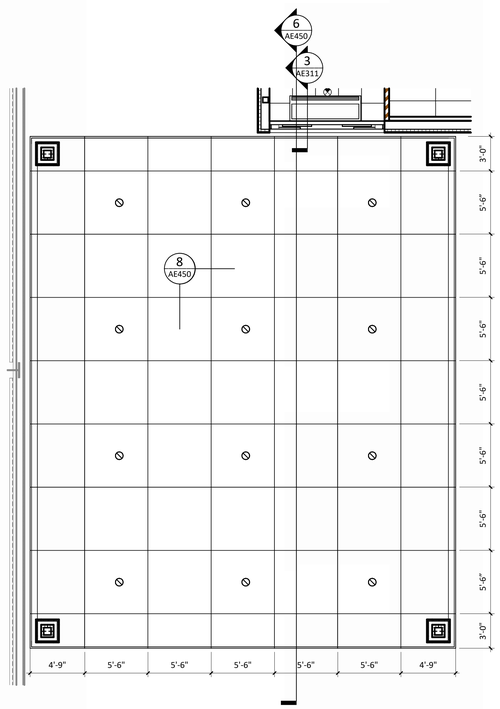
Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/6406.24.0003 HCA - LSMC ED Expansion_R23.rvt

9/25/2025 2:51:12 PM



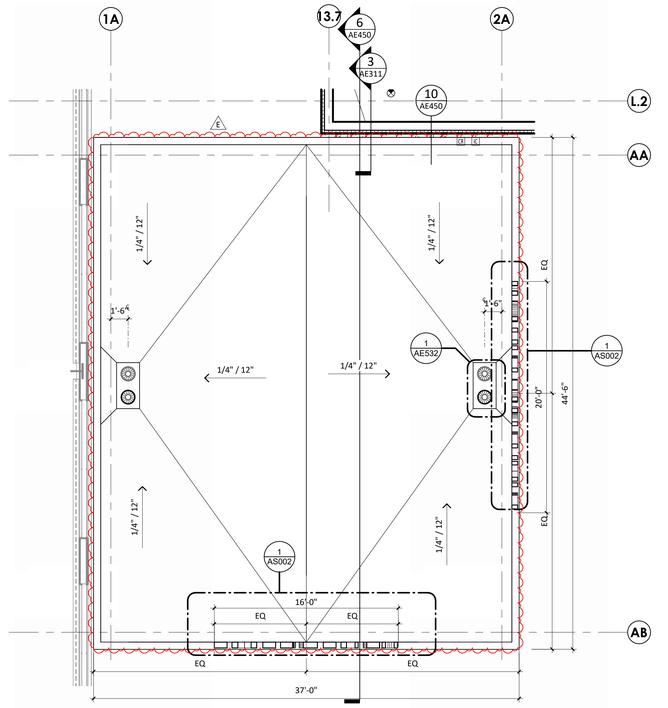
1 ENLARGED FLOOR PLAN - CANOPY A

3/16" = 1'-0"



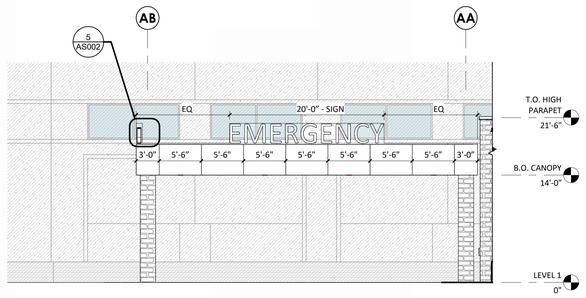
2 ENLARGED RCP - CANOPY

3/16" = 1'-0"



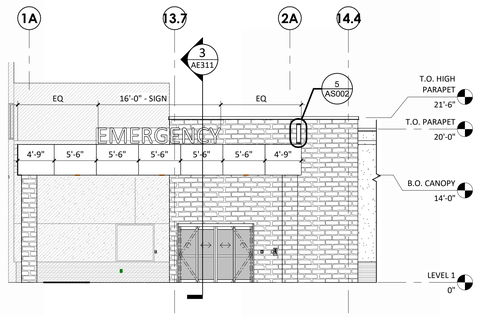
3 CANOPY A - ROOF PLAN

3/16" = 1'-0"



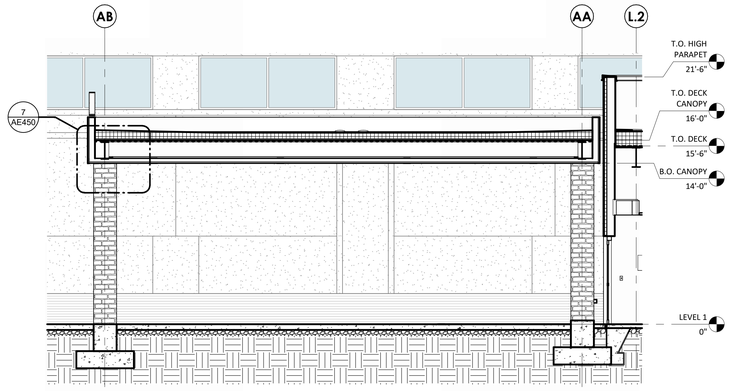
4 CANOPY - EAST ELEVATION

1/8" = 1'-0"



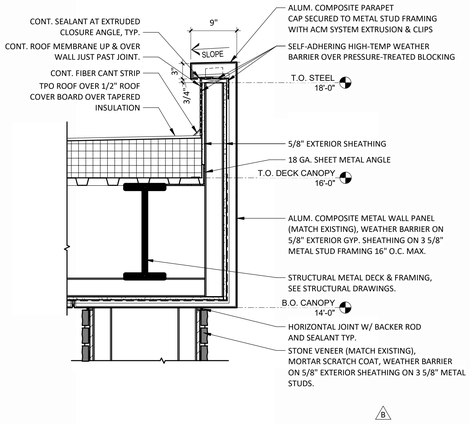
5 CANOPY - SOUTH ELEVATION

1/8" = 1'-0"



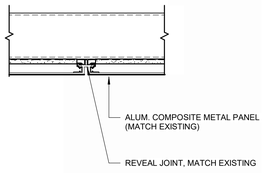
6 CANOPY SECTION

3/16" = 1'-0"



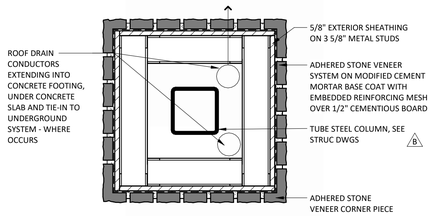
7 CANOPY EDGE

1" = 1'-0"



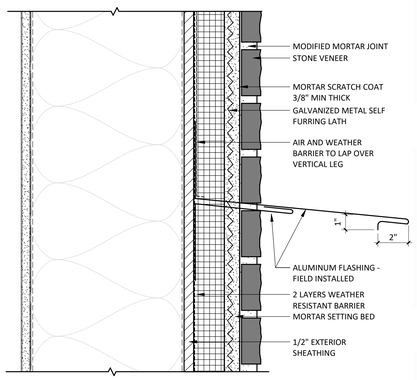
8 CANOPY SOFFIT REVEAL JOINT

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

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-2011004647

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
E	DESIGN COORDINATION	2025/07/30

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

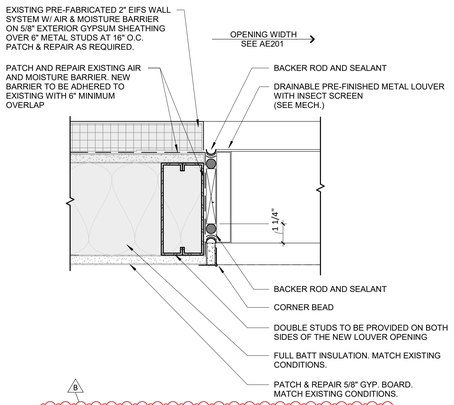
ENLARGED CANOPY PLANS, SECTIONS & DETAILS

AE450

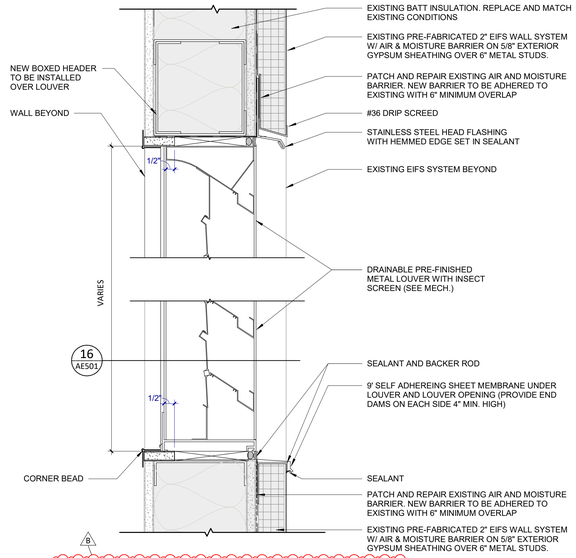
Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

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

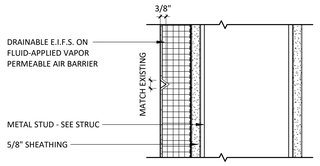
8/6/2025 2:19:46 PM



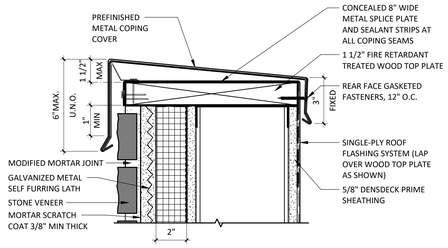
16 LOUVER DETAIL JAMB
3" = 1'-0"



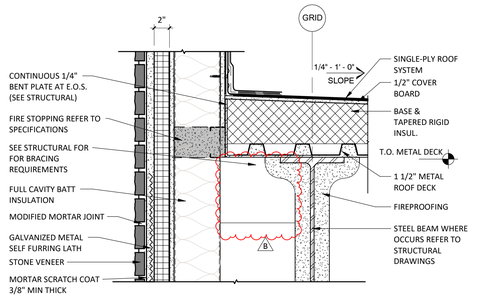
13 LOUVER DETAIL HEAD/ SILL
3" = 1'-0"



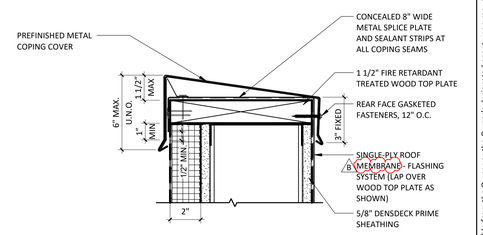
10 EIFS AESTHETIC REVEAL
3" = 1'-0"



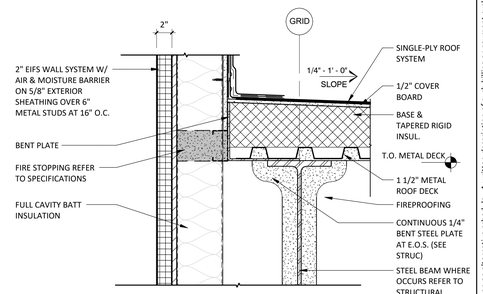
ROOF TERMINATION AT TOP OF STONE VENEER
3" = 1'-0"



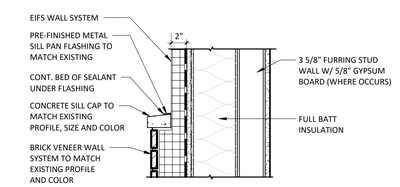
9 ROOF TERMINATION AT TOP OF STONE VENEER
3" = 1'-0"



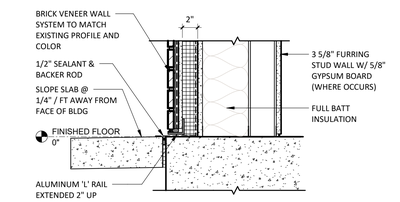
5 ROOF TERMINATION AT TOP OF EIFS WALL
3" = 1'-0"



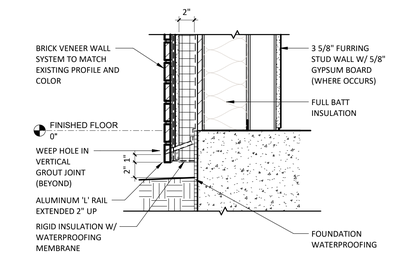
4 EIFS AT ROOF
1 1/2" = 1'-0"



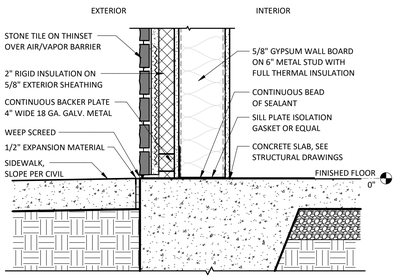
BRICK VENEER SILL AT 2" EIFS TRANSITION
1 1/2" = 1'-0"



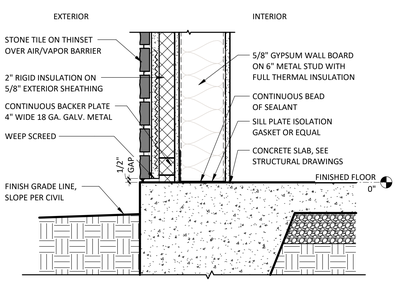
SLAB EDGE AT BRICK AT CONCRETE
1 1/2" = 1'-0"



SLAB EDGE AT BRICK AT GRADE
1 1/2" = 1'-0"



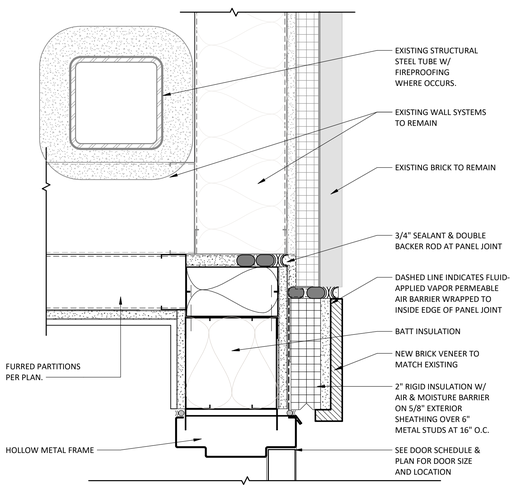
SLAB EDGE AT STONE AT CONCRETE
1 1/2" = 1'-0"



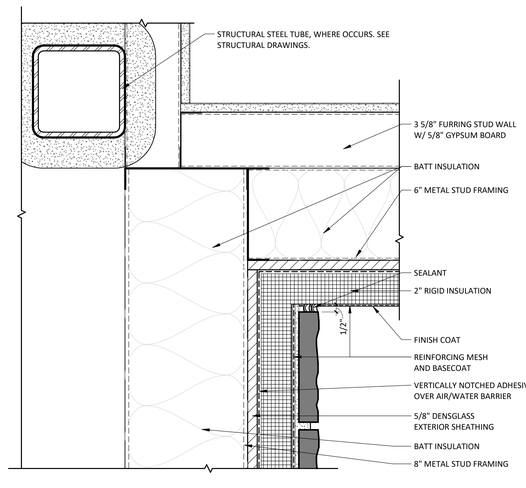
SLAB EDGE AT STONE AT GRADE
1 1/2" = 1'-0"

8 STONE VENEER AT ROOF
1 1/2" = 1'-0"

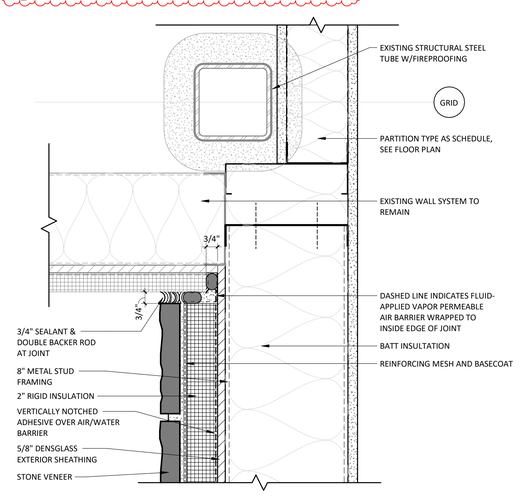
BRICK VENEER TO STONE VENEER AT INSIDE CORNER
3" = 1'-0"



12 NEW TO EXIST WALL TIE-IN @ INNER CORNER
3" = 1'-0"



STONE VENEER TO EIFS AT INSIDE CORNER
3" = 1'-0"



15 STONE VENEER TO EIFS
3" = 1'-0"

STONE VENEER TO EIFS AT INSIDE CORNER
3" = 1'-0"

Devenney GROUP
Devenney Group Ltd., Architects
6900 East Camelback Road
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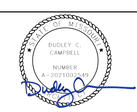
T: 602.943.8950
www.devenneygroup.com

Consultant:



DATE SIGNED: 06.05.25

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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

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

EXTERIOR DETAILS

AE501

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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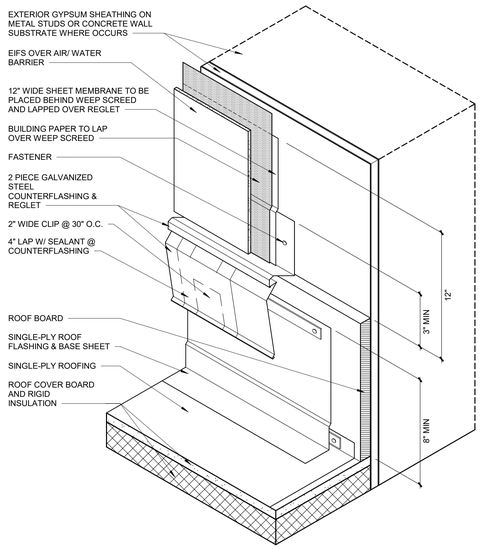
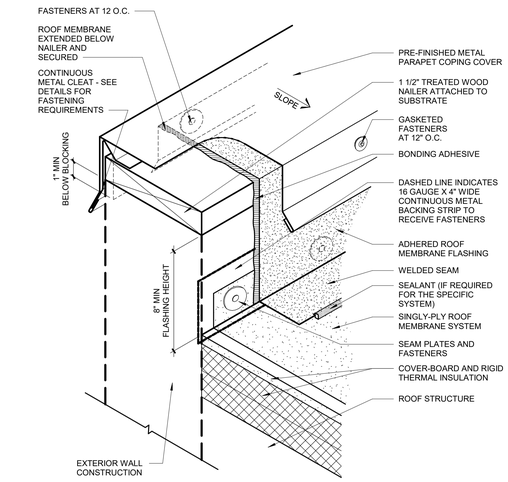
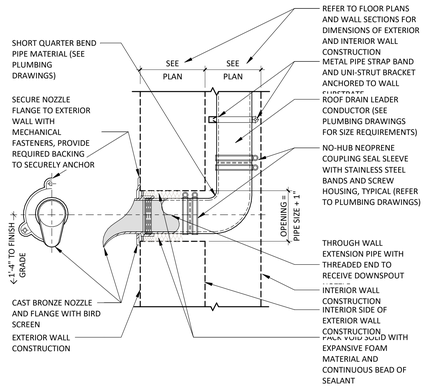


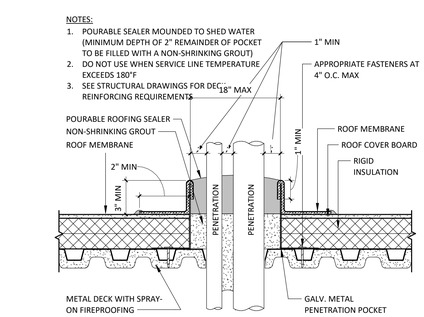
1 ROOF COUNTERFLASHING (ISOMETRIC)
NTS



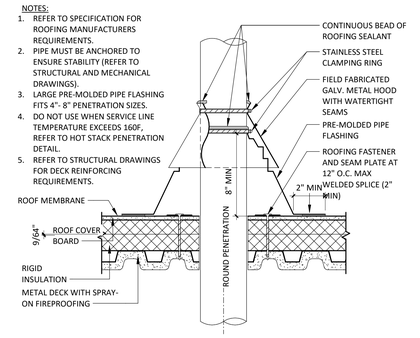
BASE FLASHING AT PARAPET WALL WITH METAL COPING
NTS



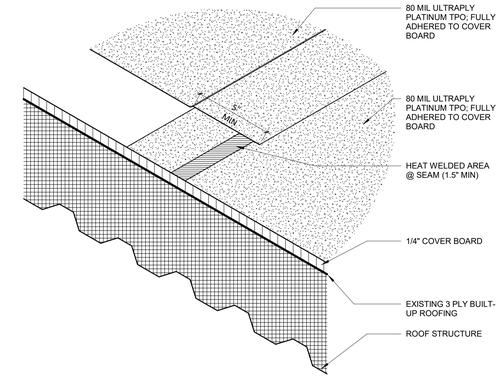
3 DOWNSPOUT NOZZLE OUTLET
1 1/2" = 1'-0"



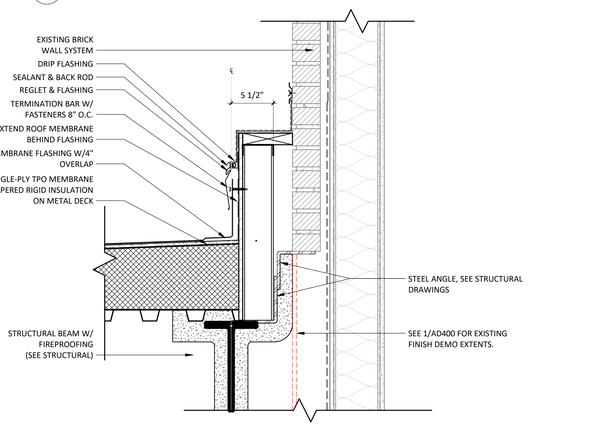
4 PIPE PENETRATION WITH SEALANT POCKET TO DECK (METAL DECK)
1 1/2" = 1'-0"



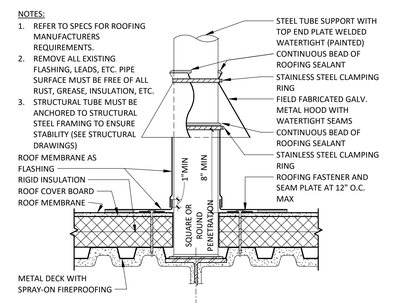
LARGE PIPE PENETRATION (METAL DECK)
1 1/2" = 1'-0"



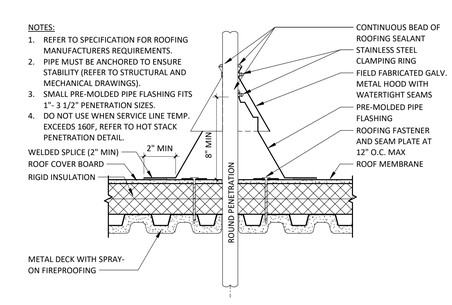
5 TYPICAL ROOF SYSTEM AND SEAM
3" = 1'-0"



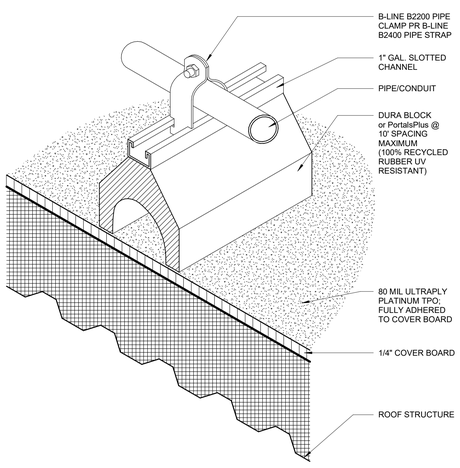
6 EXISTING BRICK TO ROOF
1 1/2" = 1'-0"



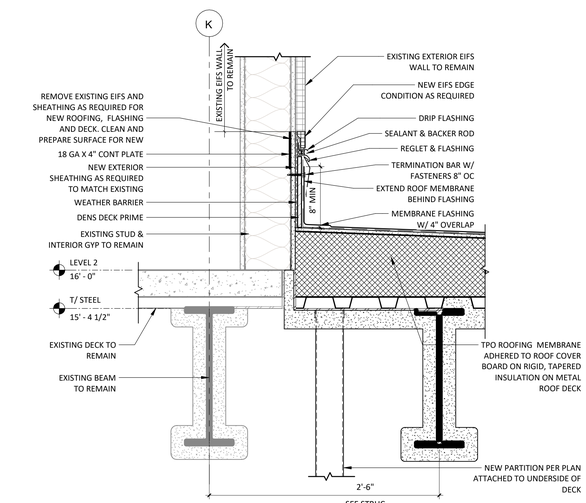
STRUCTURAL STEEL POST / COLUMN PENETRATION (METAL DECK)
1 1/2" = 1'-0"



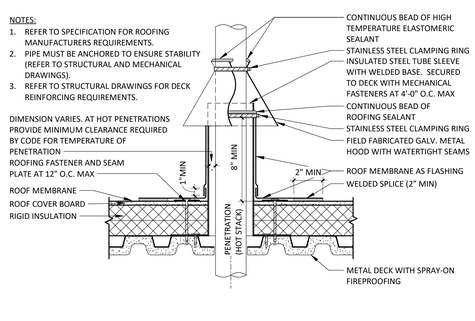
SMALL PIPE PENETRATION (METAL DECK)
1 1/2" = 1'-0"



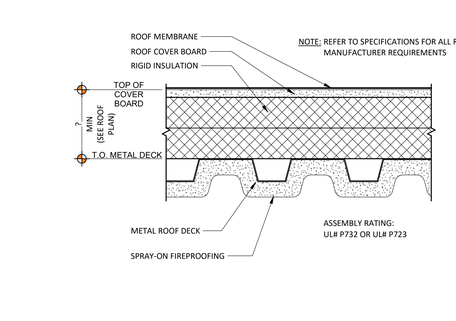
8 PIPE SUPPORT
3" = 1'-0"



9 NEW ROOF TO EXISTING BUILDING TRANSITION
1 1/2" = 1'-0"



HOT STACK PIPE PENETRATION (METAL DECK)
1 1/2" = 1'-0"



SMALL PIPE PENETRATION (METAL DECK)
1 1/2" = 1'-0"

BUILT UP ROOF SECTION (METAL DECK)
3" = 1'-0"

Devenney GROUP
Devenney Group Ltd., Architects
6900 East Camelback Road
Suite 500
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T: 602.943.8950
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Consultant:

DATE SIGNED: 04.18.25

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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

AUTHORITY HAVING JURISDICTION'S PROJECT NO:

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	2025/04/18
SCALE:	As indicated
DRAWN:	
REVIEWED:	Checker
JOB NUMBER:	6406.24.0003

EXTERIOR ROOF DETAILS

AE531

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_ENG.rvt
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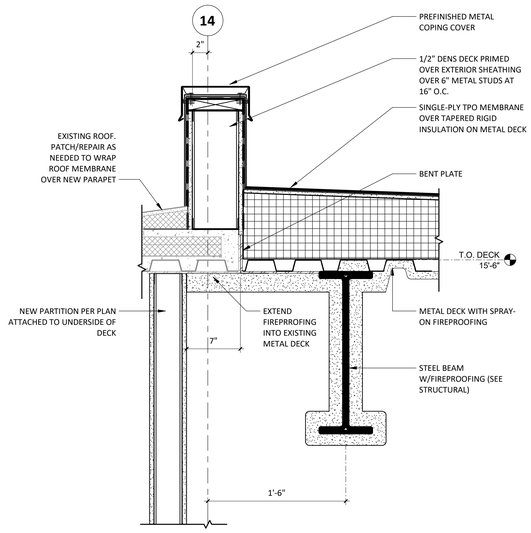
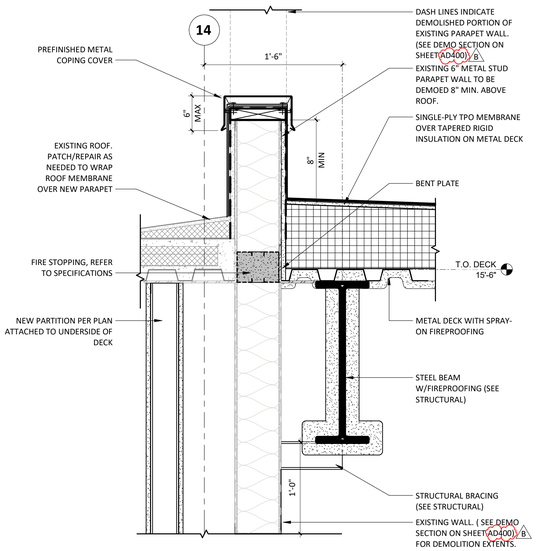


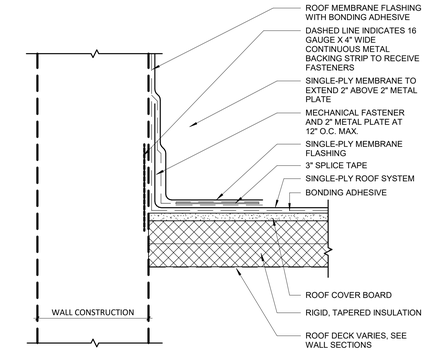
6 CURB @ ROOF

1 1/2" = 1'-0"



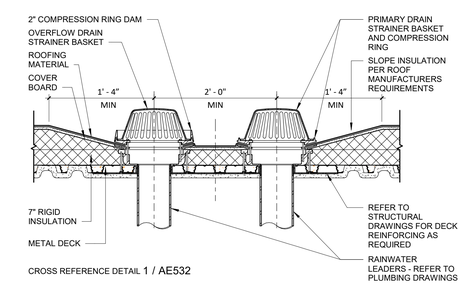
5 CURB AT ROOF TRANSITION

1 1/2" = 1'-0"



3 TYPICAL ROOF FLASHING

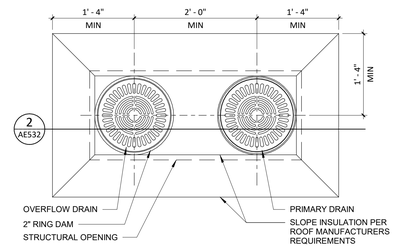
3" = 1'-0"



CROSS REFERENCE DETAIL 1 / AE532

2 ROOF DRAINS AT BUILT UP INSULATED METAL DECK

1" = 1'-0"



NOTE: METAL DECK BLOCKOUT REQUIRED AROUND DRAIN OPENING (REFER TO STRUCTURAL DRAWINGS)

1 TYPICAL ROOF DRAIN AND OVERFLOW DRAIN

1" = 1'-0"

Devenney GROUP

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DUDLEY C. CAMPBELL
NUMBER A-2011005549
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DATE SIGNED: 06.05.25

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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

DATE:	2025/04/18
SCALE:	As indicated
DRAWN:	
REVIEWED:	
JOB NUMBER:	6406.24.0003

EXTERIOR ROOF DETAILS

AE532

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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DOOR SCHEDULE

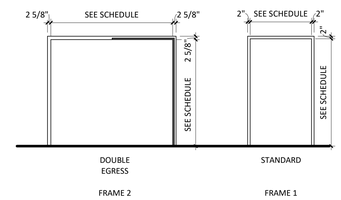
DOOR MATERIAL			DOOR GLAZING			FRAME MATERIAL			FRAME GLAZING			REMARKS		
WD	-	SOLID CORE WOOD	T	-	TEMPERED	HM	-	HOLLOW METAL	T	-	TEMPERED	1	-	EXISTING DOOR FRAMES TO REMAIN AND PAINTED TO MATCH NEW DOOR FRAME FINISH. REPLACE DOOR AND HARDWARE.
WDPL	-	PLASTIC LAMINATE WOOD	L	-	LAMINATED	AL	-	ALUMINUM	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

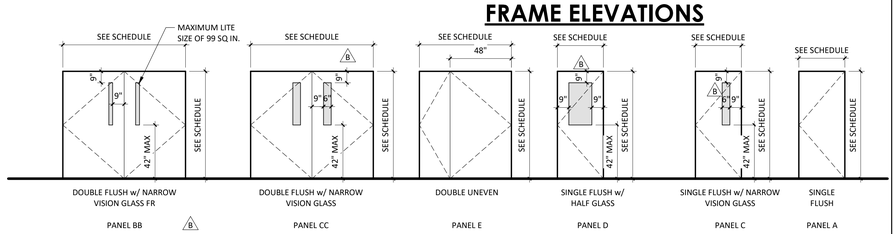
ROOM NUMBER	WIDTH	HEIGHT	DOOR PANEL			FRAME		DETAILS			RATING	HARDWARE	REMARKS	REV
			MATERIAL	ELEV.	GLAZING	MATERIAL	ELEV.	HEAD	JAMB	SILL	FIRE			
LEVEL 1														A B C 2
1-1400	10'-0"	7'-8"	AL/GL	A4	IGU	AL	A4	10/AE631	9/AE631	8/AE631	-	109A		
1-1403	10'-0"	7'-8"	AL/GL	A4	T	AL	A4	10/AE631	9/AE631		-	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	010C		B
1-1405A	4'-0"	7'-0"	WDPL	A	-	HM	1	3/AE631	2/AE631	1/AE631	20 MIN	009B	1	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	011F	2	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

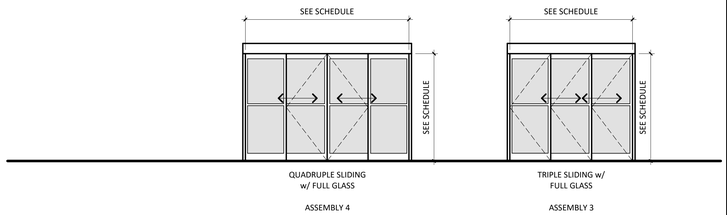
1. THE PURPOSE OF THIS SHEET IS TO DESCRIBE AND ILLUSTRATE DOOR TYPES. NOT ALL DOOR TYPES SHOWN ARE NECESSARILY USED. SEE DOOR MARK SCHEDULE FOR DOOR TYPES USED.
2. FIRE DOORS AND FRAMES SHALL HAVE AN APPROVED LABEL OR LISTING MARK INDICATING THE FIRE PROTECTION RATING WHICH IS PERMANENTLY AFFIXED AT 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

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Suite 500
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Consultant:

DATE SIGNED: 10.24.25

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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
1	ASI-001 - DESIGN COORDINATION	2025/09/26
2	ASI-002 - DESIGN COORDINATION	2025/10/24

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: 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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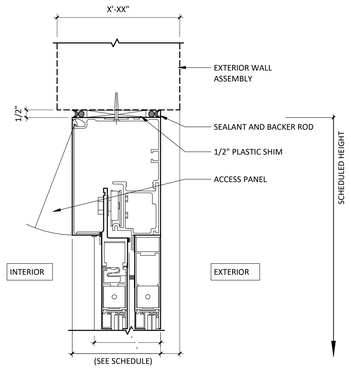
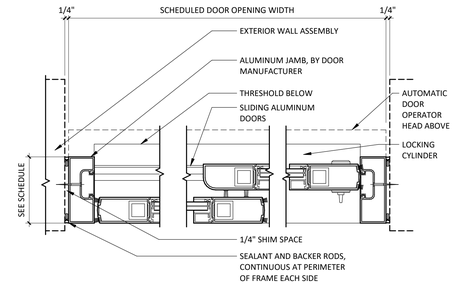


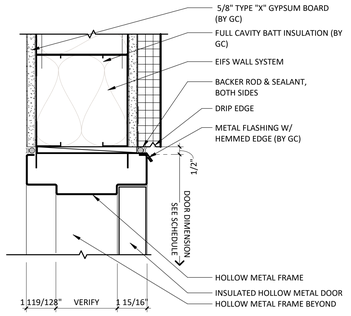
EXTERIOR ALUMINUM SLIDING DOOR HEAD

10 3" = 1'-0"



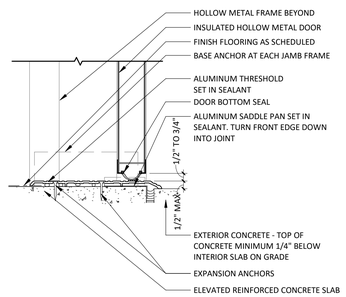
EXTERIOR ALUMINUM SLIDING DOOR JAMB

9 3" = 1'-0"



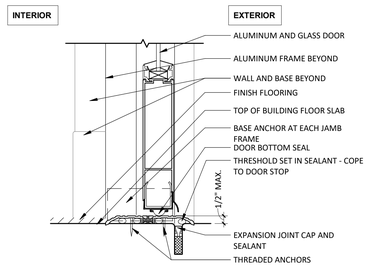
HOLLOW METAL DOOR HEAD/JAMB

12 3" = 1'-0"



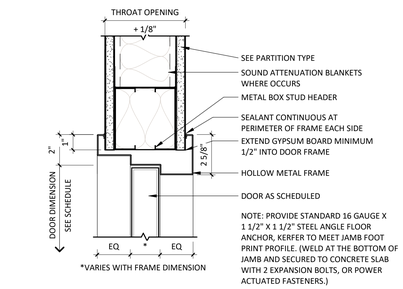
HOLLOW METAL DOOR SILL

11 3" = 1'-0"



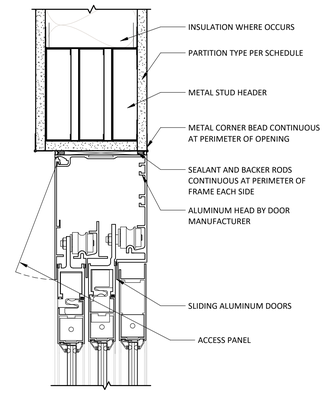
EXTERIOR ALUMINUM DOOR THRESHOLD

8 3" = 1'-0"



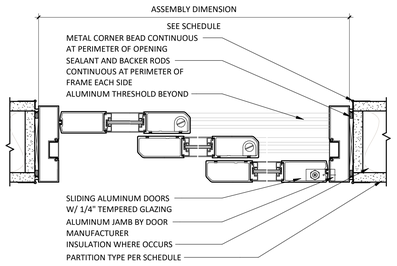
HEAD/JAMB AT DOUBLE EGRESS

7 3" = 1'-0"



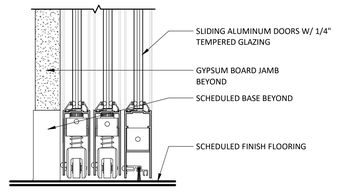
HEAD AT 3-PANEL AUTO SLIDING DOOR

6 3" = 1'-0"



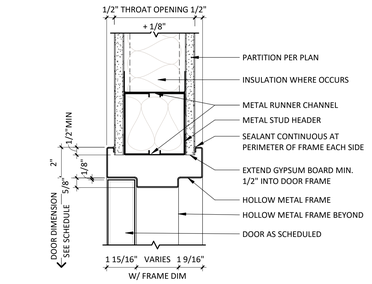
JAMB AT 3-PANEL AUTO SLIDING DOOR

5 3" = 1'-0"



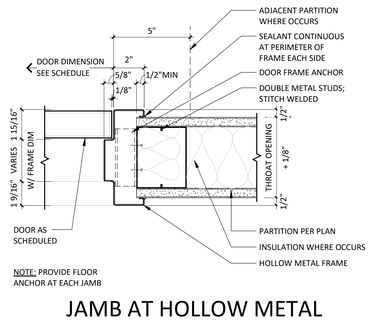
SILL AT 3-PANEL AUTO SLIDING DOOR

4 3" = 1'-0"



HEAD AT HOLLOW METAL FRAME

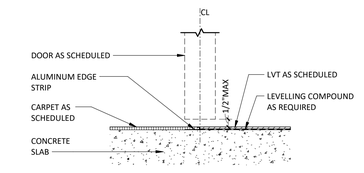
3 3" = 1'-0"



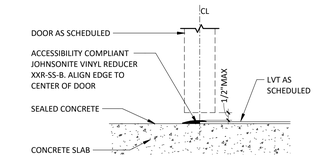
NOTE: PROVIDE FLOOR ANCHOR AT EACH JAMB

JAMB AT HOLLOW METAL FRAME

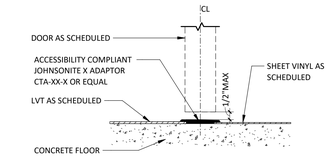
2 3" = 1'-0"



C CARPET TO LVT



B CONCRETE TO LVT



A LVT TO SHEET VINYL

TYP SILL DETAILS

1 3" = 1'-0"

Devenney GROUP

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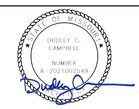

DATE SIGNED: 04.18.25

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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

DATE:	2025/04/18
SCALE:	3" = 1'-0"
DRAWN:	LL
REVIEWED:	
JOB NUMBER:	6406.24.0003

EXTERIOR & INTERIOR DOOR DETAILS

AE631

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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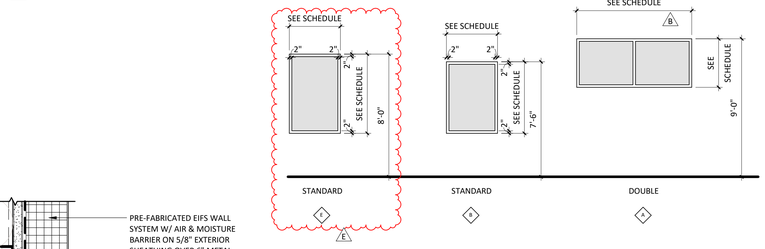
WINDOW SCHEDULE		
FRAME MATERIAL	GLAZING	REMARKS
HM - HOLLOW METAL	T - TEMPERED	1 - INTEGRAL VISION CONTROL WINDOW TO MATCH EXISTING AT GLAZING NOTED 'VC' ON EXTERIOR ELEVATIONS
AL - ALUMINUM	L - LAMINATED	
STL - STEEL	FR - FIRE RESISTIVE	
E - EXISTING	FP - FIRE PROTECTIVE	
	IGU - INSULATED GLASS UNIT	

Window Schedule

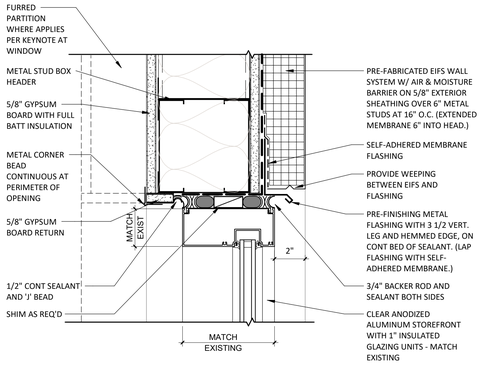
ID	WIDTH	HEIGHT	MATERIAL		DETAILS			REMARKS
			GLAZING	FRAME	HEAD	JAMB	SILL	
A	12'-0"	2'-8"	IGU	AL	6/AE651	5/AE651	4/AE651	
B	3'-0"	5'-0"	T	HM	3/AE651	2/AE651	1/AE651	SMOKE
D	11'-6"	4'-6"	LOUVER	AL	13/AE501	16/AE501	13/AE501	
E	2'-6"	4'-0"	T	HM	3/AE651	2/AE651	1/AE651	INTERGRAL BLIND



WINDOW ELEVATIONS

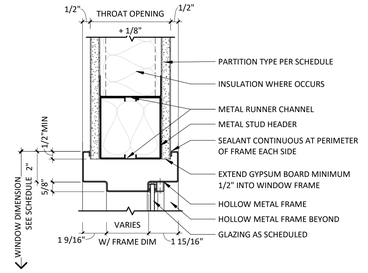
GLAZING GENERAL NOTES

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.



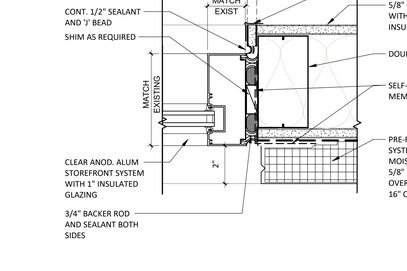
6 ALUMINUM HEAD - EIFS FINISH

3" = 1'-0"



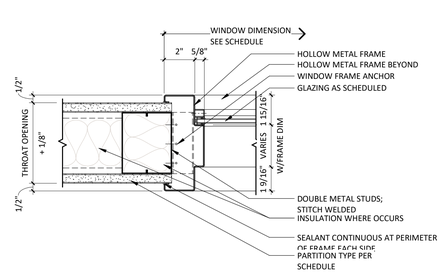
3 HEAD AT HOLLOW METAL WINDOW

3" = 1'-0"



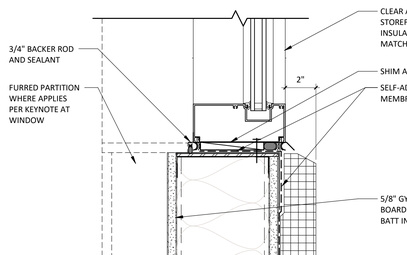
5 ALUMINUM STOREFRONT JAMB - EIFS FINISH

3" = 1'-0"



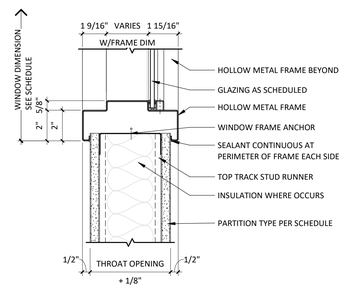
2 JAMB AT HOLLOW METAL WINDOW

3" = 1'-0"



4 ALUMINUM STOREFRONT SILL - EIFS FINISH

3" = 1'-0"



1 SILL AT HOLLOW METAL WINDOW

3" = 1'-0"

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Consultant:

STATE OF MISSOURI
DUDLEY G. CAMPBELL
NUMBER A-2007019447

DATE SIGNED: 07.30.25

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ED EXPANSION

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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
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

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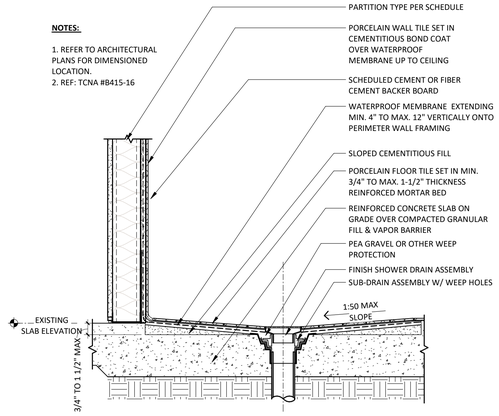
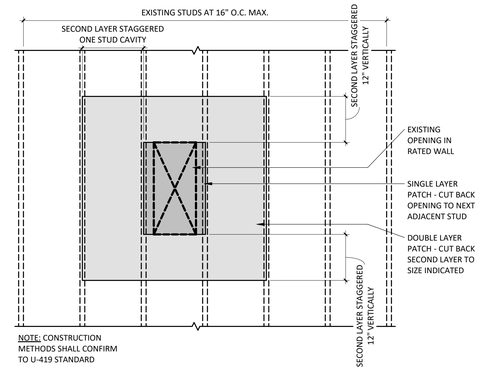


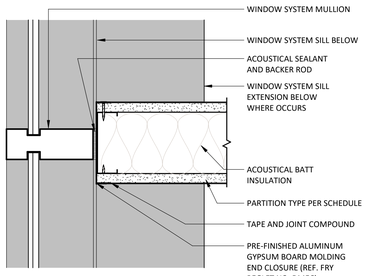
SHOWER WALL & RECEPTOR AT SLAB ON GRADE

5 — 1 1/2" = 1'-0"



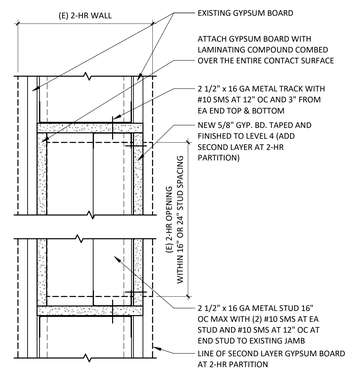
1 & 2 HOUR RATED PARTITION PATCHING

3 — 3/4" = 1'-0"



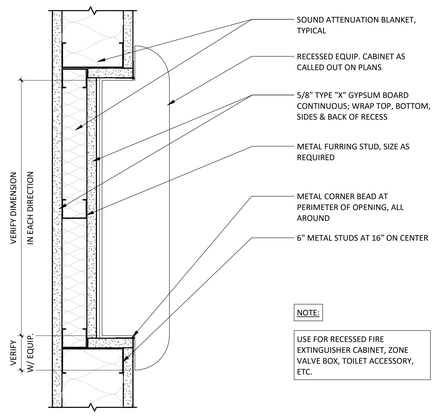
CENTER PARTITION TERMINATION AT MULLION

6 — 3" = 1'-0"



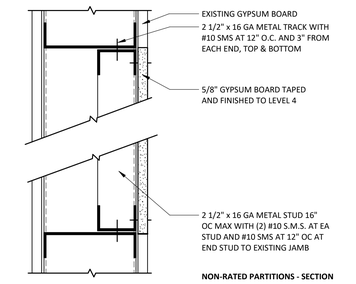
1 & 2 HOUR PARTITION OPENING INFILL

2 — 3" = 1'-0"



RECESSED FIRE EXTINGUISHER CABINET

4 — 3" = 1'-0"



PARTITION OPENING INFILL NON-RATED

1 — 3" = 1'-0"

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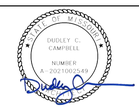

DATE SIGNED: 04.18.25

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

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

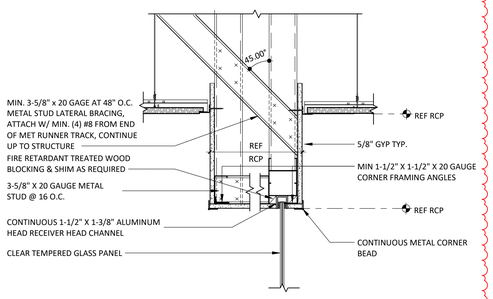
REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	2025/04/18
SCALE:	As indicated
DRAWN:	LL
REVIEWED:	
JOB NUMBER:	6406.24.0003

INTERIOR DETAILS

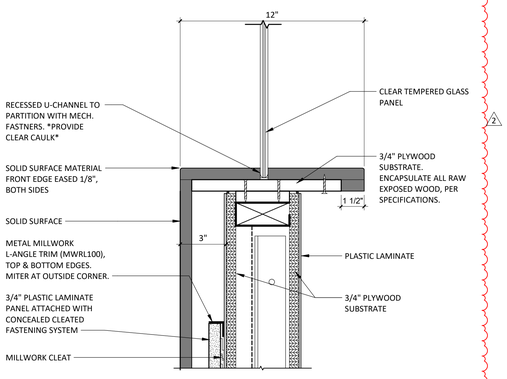
AE701

4/23/2025 5:06:42 PM Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/6406.24.0003 HCA - LSMC ED Expansion_R23.rvt



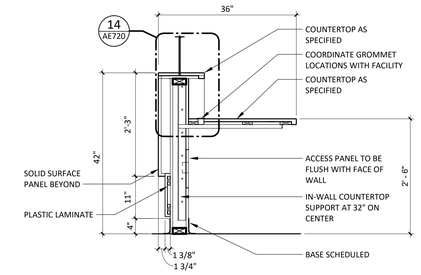
NOTE: EXPOSED GLAZING EDGES TO BE FLAT POLISHED WITH A 25 DEGREE ARRIS (FLATTENED CORNER) AND MUST BE HIGHLY POLISHED FOR A SMOOTH/UNSHARP EDGE.

15 HEAD AT RECEPTION GLAZING
1 1/2" = 1'-0"

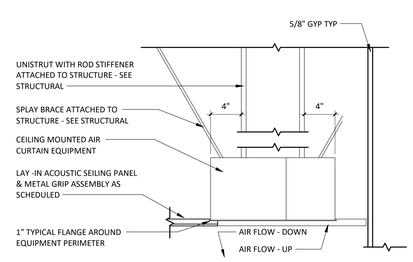


NOTE: EXPOSED GLAZING EDGES TO BE FLAT POLISHED WITH A 25 DEGREE ARRIS (FLATTENED CORNER) AND MUST BE HIGHLY POLISHED FOR A SMOOTH/UNSHARP EDGE.

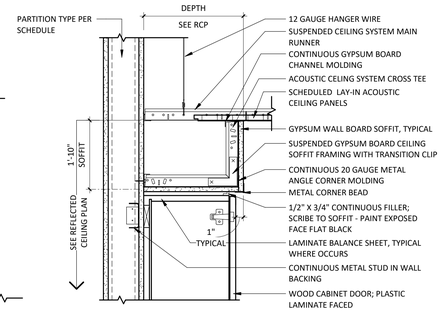
14 SILL AT RECEPTION GLAZING
3" = 1'-0"



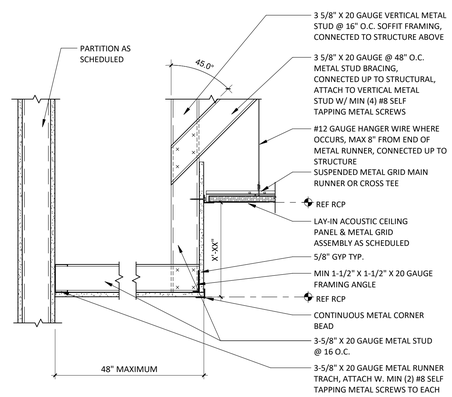
RECEPTION DESK - HIGH COUNTER
13
3/4" = 1'-0"



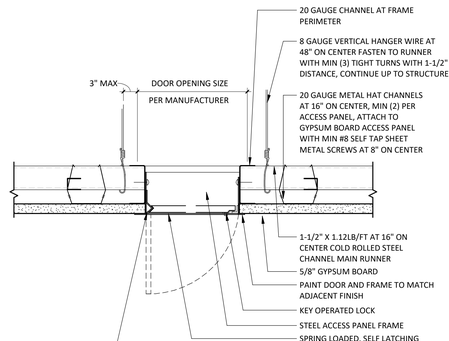
12 AIR CURTAIN
1 1/2" = 1'-0"



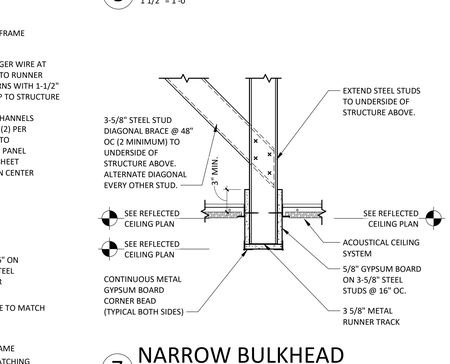
GYPSUM BOARD SOFFIT AT ACOUSTIC CEILING SYSTEM
8
1 1/2" = 1'-0"



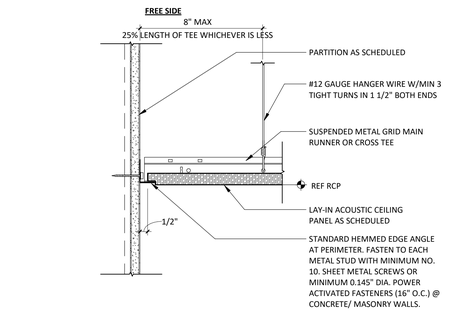
GYP BD SOFFIT TO APC
4
1 1/2" = 1'-0"
C1070



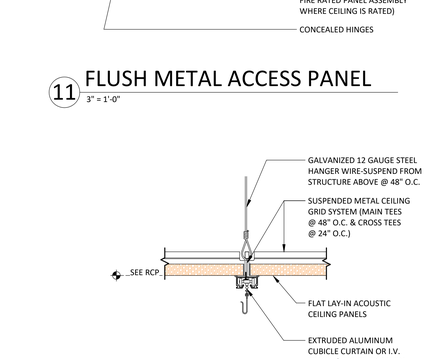
FLUSH METAL ACCESS PANEL
11
3" = 1'-0"



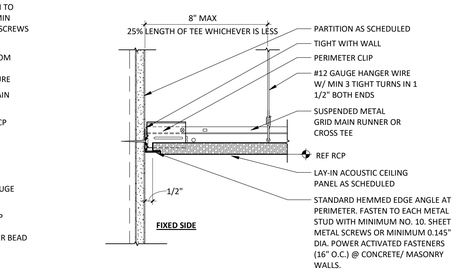
NARROW BULKHEAD
7
1 1/2" = 1'-0"



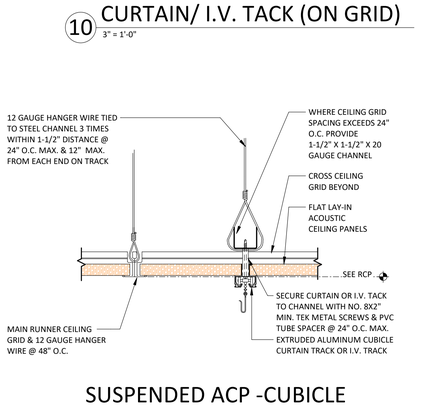
SUSPENDED LAY-IN CEILING FREE EDGE CONDITION
3
3" = 1'-0"
C1070



GYP BD SOFFIT TO APC
6
1 1/2" = 1'-0"

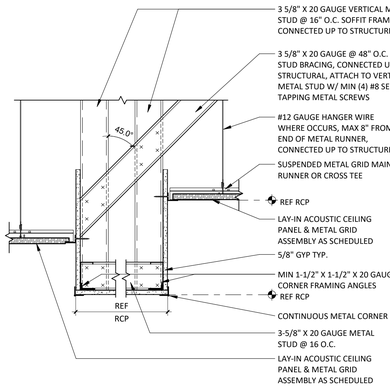


SUSPENDED LAY-IN CEILING EDGE CONDITION
2
3" = 1'-0"
C1070

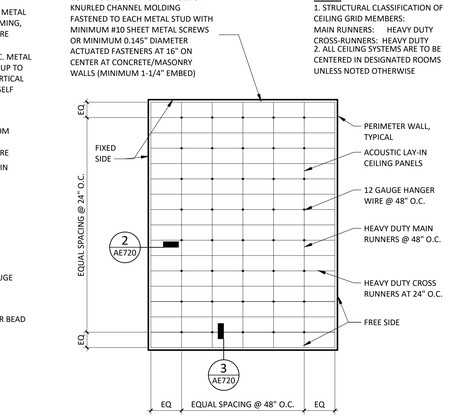


SUSPENDED ACP -CUBICLE CURTAIN/ I.V. TRACK (OFF GRID)
9
3" = 1'-0"

SUSPENDED ACP-CUBICAL CURTAIN/ I.V. TACK (ON GRID)
10
3" = 1'-0"



GYP BD SOFFIT TO STAGGERED APC
5
1 1/2" = 1'-0"
C1070



APC-SUSPENDED CEILING
1
1/8" = 1'-0"
C1070

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

Consultant:

DUDLEY C. CAMPBELL
NUMBER R-2021005149
DATE SIGNED: 10.24.25

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
2	ASI-002 - DESIGN COORDINATION	2025/10/24

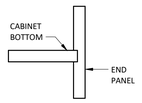
DATE: 2025/04/18
SCALE: As indicated
DRAWN: LL
REVIEWED:
JOB NUMBER: 6406.24.0003

INTERIOR CEILING/ SOFFIT DETAILS

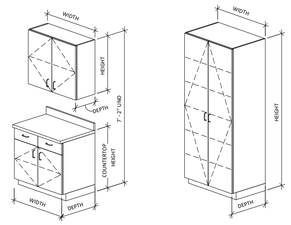
AE720

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.

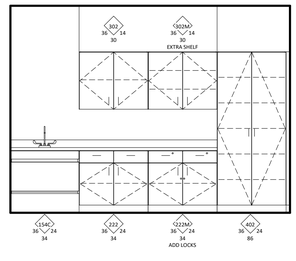
Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/6406.24.0003 HCA - LSMC ED Expansion_R23.rvt
11/5/2025 11:26:51 AM

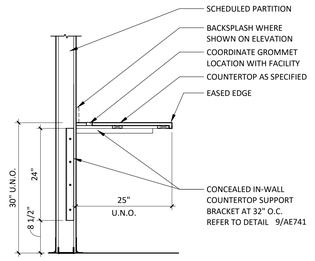


1 SEC. - UPPER CABINET EXPOSED END AT VALANCE
3" = 1'-0"

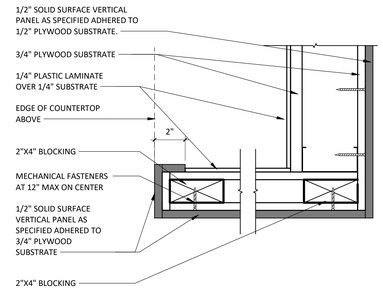


CASEWORK LEGEND
NTS

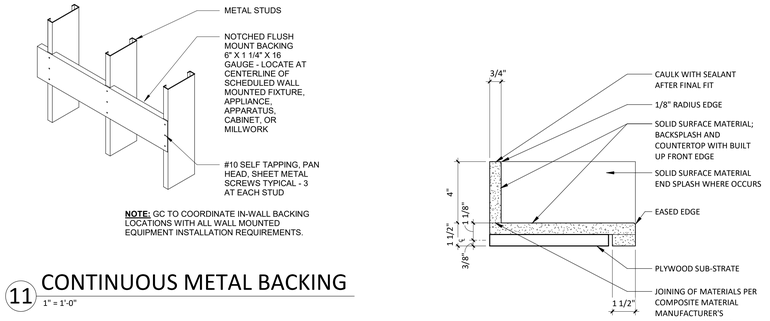

302
36
14
30
3624N
36
14
30
EXTRA SHELF
2.5"
1.5"
1.5"
1



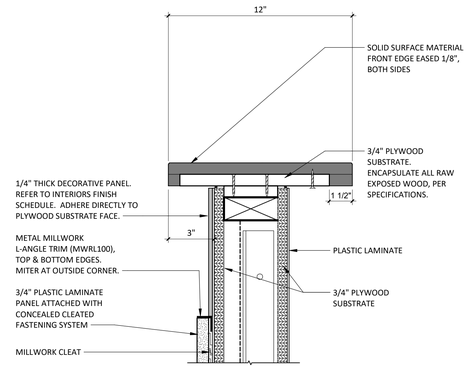
8 WORK SURFACE
3/4" = 1'-0"



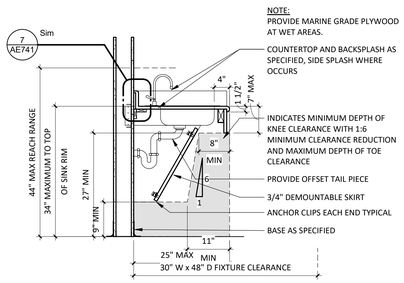
4 VERTICAL SOLID SURFACE END PANEL
3" = 1'-0"



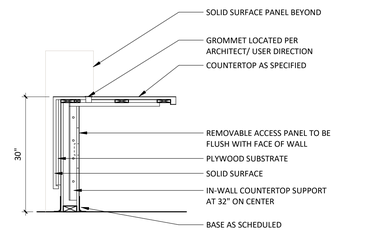
7 SOLID SURFACE COUNTERTOP
3" = 1'-0"



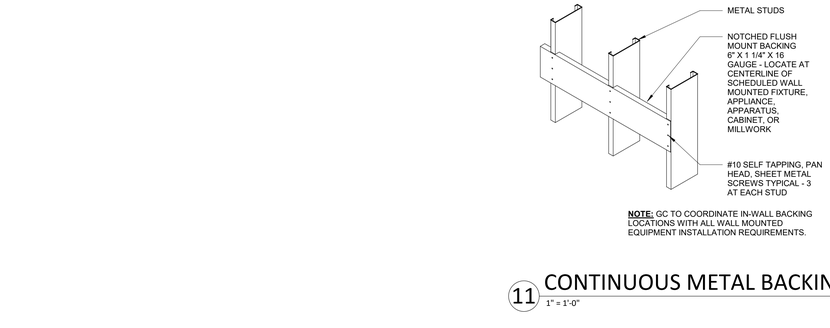
3 12" TRANSACTION TOP - ENLARGED
3" = 1'-0"



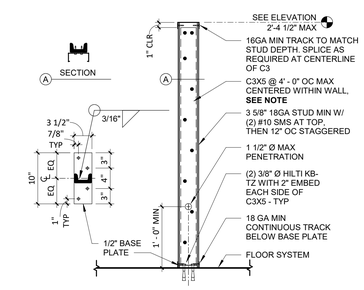
6 LAV W/ REMOVABLE PLUMBING SHIELD (NON-CAL)
3/4" = 1'-0"



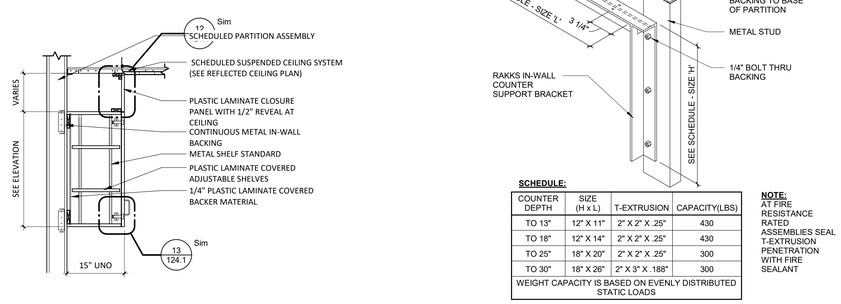
2 NURSE STATION - LOW COUNTER
3/4" = 1'-0"



11 CONTINUOUS METAL BACKING
1" = 1'-0"



10 CANTILEVERED PARTIAL HEIGHT WALL WHERE COUNTERTOP OCCURS
1" = 1'-0"



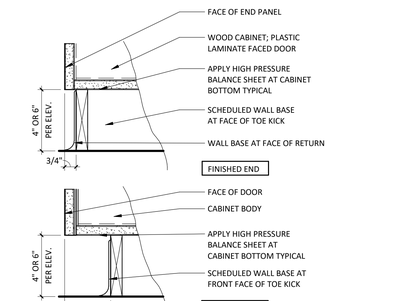
SCHEDULE:

COUNTER DEPTH	SIZE (H x L)	T-EXTRUSION	CAPACITY(LBS)
TO 13"	12" X 11"	2" X 2" X .25"	430
TO 18"	12" X 14"	2" X 2" X .25"	430
TO 25"	18" X 20"	2" X 2" X .25"	300
TO 30"	18" X 26"	2" X 3" X .188"	300
WEIGHT CAPACITY IS BASED ON EVENLY DISTRIBUTED STATIC LOADS			

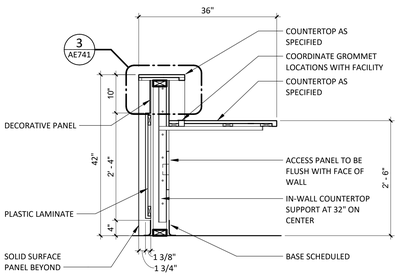
NOTE: AT FIRE RESISTANCE RATED ASSEMBLIES SEAL T-EXTRUSION PENETRATION WITH FIRE SEALANT

9 COUNTERTOP SUPPORT BRACKET
1 1/2" = 1'-0"

13 UPPER CABINET
3/4" = 1'-0"



5 TOE KICK
3" = 1'-0"



1 NURSE STATION - HIGH COUNTER
3/4" = 1'-0"

Devenney GROUP

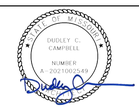
Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:



DATE SIGNED: 04.18.25

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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

DATE:	2025/04/18
SCALE:	As indicated
DRAWN:	LL
REVIEWED:	
JOB NUMBER:	6406.24.0003

MILLWORK DETAILS

AE741

4/23/2025 5:06:46 PM Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/6406.24.0003 HCA - LSMC ED Expansion_R23.rvt

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	Chris Carlisle 629.224.7179 ccarlisle@oldenkamp.com
Daltile	Ceramic Tile	Olivia Hunt olivia.hunt@daltile.com
Durasein	Solid Surface	Pam Dervarics 610.360.5825 pam.dervarics@durasein.com
Emser Tile	Porcelain Tile	Brittany Cain 615.918.0773 brittanycain@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*

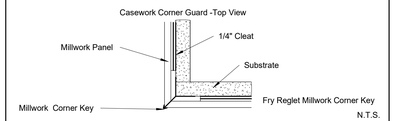
FLOORING TRANSITION STRIPS

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.

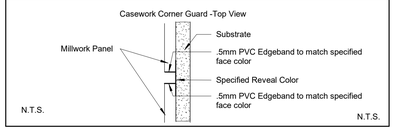
CASEWORK

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
PL3	Plastic Laminate	Reception Desk	Wilsonart	Pattern: Raleigh Walnut 17015K Finish: 67 Aligned Walnut, Aeon Scratch Resistance
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



MILLWORK EDGE DETAIL



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 style/sizes
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.

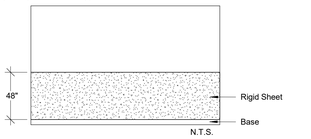
CODE	ITEM	LOCATION	MANUFACT.	DESCRIPTION
●	Corner Guard 2" Full Height	Corners-90 degree	InPro	Style: 150BN Color: See color legend below Retainer: Vinyl Height: Full Height Notes: Instal above wall base. Utilize top and bottom caps.
⌴	Corner Guard 2" Full Height	Corners-End Walls	InPro	Style: 150DBN Color: Feather 0238 Retainer: Vinyl Height: Full Height Sheet Texture: Velvet Notes: 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

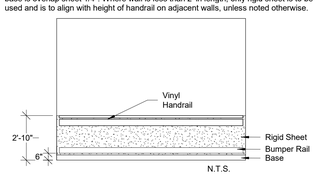
WALL PAINT COLOR	LOCATION	WALL PROTECTION COLOR
P1	General	Feather 0238
P2	Exam Room Accent Walls	Deco Blue 0391
P3	Exam Room Accent Walls	Serenity 0166

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..

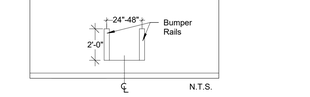


WP2- Vinyl Hand Rail is to be mounted at 34" A.F.F. to top of rail. Bumper Rail to be mounted at 6" A.F.F. from bottom of rail. Rails are to stop 2" before all door frames, fire extinguisher cabinets, wall openings and corner guards. Rigid Sheet is to be installed and adhered to the wall and align with 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.

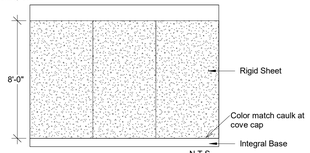


WP3- Bumper Rails are to be placed vertically at all locations of patient beds / stretchers. See architectural elevations for additional information.

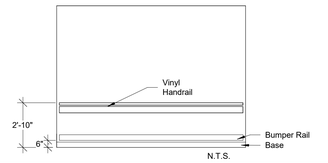
GC is to confirm that final rail mounting widths and heights coordinate with specified bed/stretcher model.



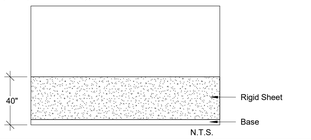
WP4- Rigid Sheet is to be installed and adhered to the wall full height. Where integral base is used, the sheet is to sit firmly on the top of the cove cap and to be caulked with color matching caulk.



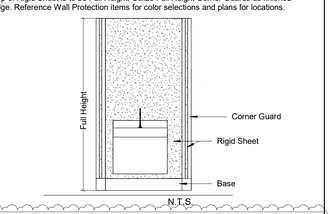
WP5- Vinyl Hand Rail is to be mounted at 34" A.F.F. to top of rail. Bumper Rail to be mounted at 6" A.F.F. from bottom of rail. Rails are to stop 2" before all door frames, fire extinguisher cabinets, wall openings and corner guards.



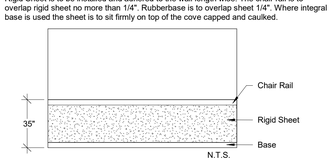
WP6 - Rigid Sheet is to be installed and adhered to the wall 40" length wise. Where rubber base is specified, the base is overlap sheet 1/4". Where integral base is used the sheet is to sit firmly on top of the cove capped and caulked..



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.



WP8 - Rigid Sheet is to be installed and adhered to the wall length wise. The chair rail is to overlap rigid sheet no more than 1/4". Rubberbase is to overlap sheet 1/4". Where integral base is used the sheet is to sit firmly on top of the cove capped and caulked.



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DUDLEY E. CAMPBELL NUMBER A-2021005549

DATE SIGNED: 10.24.25

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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
2	ASI-002 - DESIGN COORDINATION	2025/10/24

DATE:	2025.04.18
SCALE:	1/8" = 1'-0"
DRAWN:	PC
REVIEWED:	PF
JOB NUMBER:	6406.24.0003

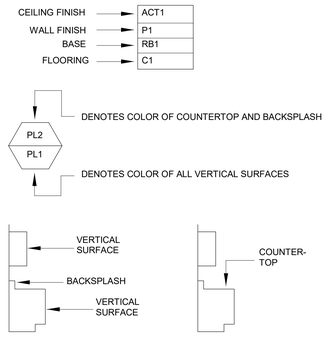
GENERAL FINISH SPECIFICATIONS AND NOTES

AF001

10/22/2025 10:58:03 AM Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/LSMC Lee's Summit Medical Center ED RENO_ IDS_R23.rvt

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

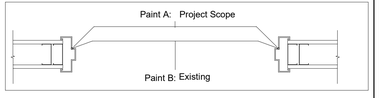
1. Prior to the application of paint, the contractor is to repair new or existing surfaces by patching, smoothing and sanding as needed to achieve a surface acceptable for the application of new finish. Prepare door frames or metal surfaces by sanding by chips/burrs, filling dents and caulking cracks 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.

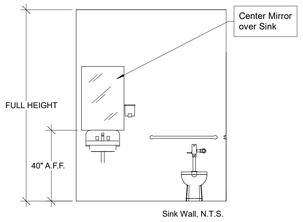
7. All prefinished store front windows or factory prefinished frames should not be painted unless otherwise directed architect or Interior Designer.
8. Paint all horizontal surfaces on soffits over upper casework to match the vertical wall unless otherwise noted. Soffits indicated to receive accent paint 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.

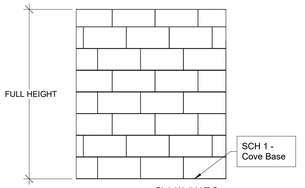
D: TILE

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.

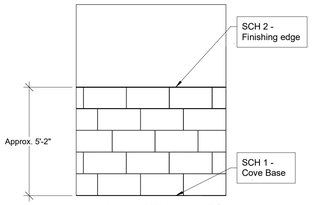


Sink Wall, N.T.S.

6. Walls in Toilets are to receive the following tile pattern(s):
   Install so that tile runs fully behind grab bars and dispensers.



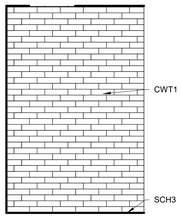
Sink Wall N.T.S.



Remaining Toilet Walls N.T.S.

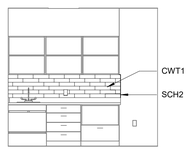
Wall Tile Key:
PWT1

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.
8. EMS Sink Wall: CWT1 is to be installed in a horizontal 1/3rd offset pattern as shown in elevation below.



5 EMS
1/4" = 1'-0"

E: WALL PROTECTION

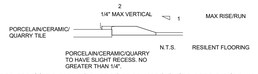
1. Prior to the application of paint, the contractor is to repair new or existing surfaces by patching, smoothing and sanding as needed to achieve a surface acceptable for the application of new finish.
2. Utilize caulk at all corner guards and areas where sheet protection meets door frames. Color of 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

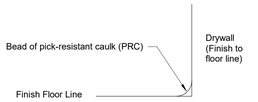
1. All traditional rubber base is to be 4" H, coved, and continuous rolls. Miter inside corners, wrap outside corners of jobsite. Do NOT use premolded corners.
2. All sculptured rubber base is to be 4.25" H, straight sections. Miter inside and outside corners. Do NOT use premolded corners.
3. All reducer 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:

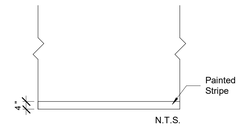


7. All floor transitions are to be taped or covered during construction, to protect the material until final completion.
8. Where new flooring or base is specified, the same flooring or base should extend into any closets, storage areas, etc. adjacent to that space unless otherwise noted.
9. For renovations, 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.

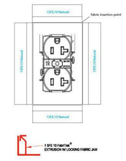


N.T.S.

19. For HCA projects, all flooring should be purchased and tracked through Logistic Solutions and Mannington. See material contacts section for contact people.

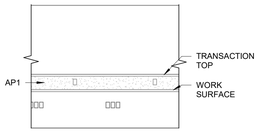
G: ACOUSTICAL PANELS

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

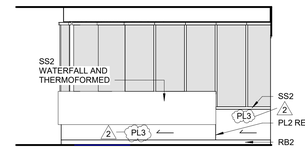
Contractor is to price the following alternates in addition to the base bid. See interior plans for locations with * for information.

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

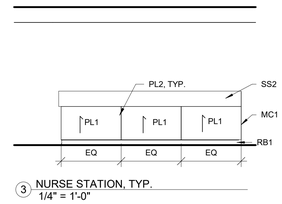
Typical Casework Designs are to be as shown in elevations below. All Graining to run in the same direction, unless otherwise noted. All 1/4" reveals are to be plastic laminate PL2.

1. Typical Reception Desk:



2 RECEPTION DESK
1/4" = 1'-0"

2. Typical Nurse Station, Typical:



3 NURSE STATION, TYP.
1/4" = 1'-0"

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MISSOURI DHSS

FACILITY NUMBER:
0972400009

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REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05
E	DESIGN COORDINATION	2025/07/30
1	ASI-001 - DESIGN COORDINATION	2025/09/26
2	ASI-002 - DESIGN COORDINATION	2025/10/24

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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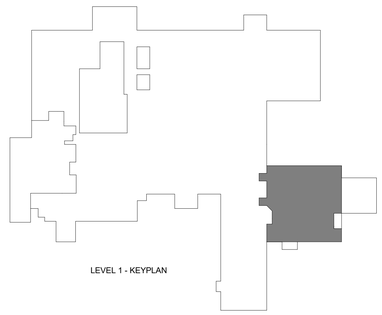
1 Level 1 - FINISH PLAN
1/8" = 1'-0"



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REGISTERED ARCHITECT
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2	ASI-002 - DESIGN COORDINATION	2025/10/24

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SCALE:	1/8" = 1'-0"
DRAWN:	PC
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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.

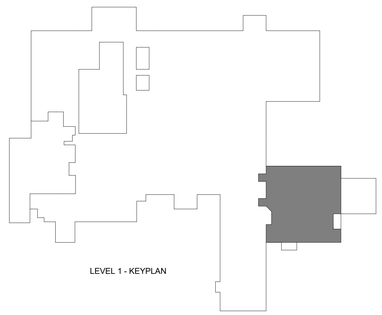
WALL PROTECTION ITEMS

*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



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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 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'-0" 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

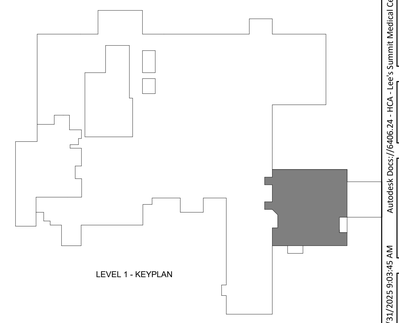
TS1	Transition Strip	1/8" Resilient to Carpet	Schluter Systems	Vinpro-S, Aluminum Finish: Brushed Nickel Anodized Aluminum
TS2	Transition Strip	Porcelain/ Ceramic to 1/8" Resilient	Grifform	Ramping TRT#, 1/8" Beveled Corian Color: Elegant Gray See Flooring for detail note about Ramp size.
TS3	Transition 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



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E	DESIGN COORDINATION	2025/07/30

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FLOOR PATTERN PLAN - LEVEL 1

AF103

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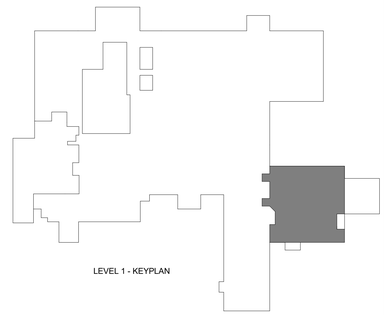
1 Level 1 - FURNITURE PLAN
1/8" = 1'-0"



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FURNITURE PLAN - LEVEL 1

AF104

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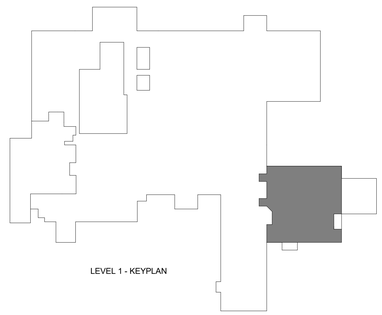
1 Level 1 - SIGNAGE PLAN
1/8" = 1'-0"

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	3	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	FACILITY TO CONFIRM NUMBERING AND VERBIAGE; VERIFY NUMBERING WITH NURSE CALL NUMBERING
48	1	1	INT	S	EXAM 11 (AII)	BIOHAZARD	
49	1	1	INT	P	EXIT		FACILITY TO CONFIRM NUMBERING AND VERBIAGE
50	1	1	EXT	S	AUTHORIZED PERSONNEL ONLY	BIOHAZARD	
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	EMTALA		ENGLISH/SPANISH REQUIRED
	2	1	INT	BF	FIRE EXTINGUISHER		BLADE
	5	1	INT		FIRE EVACUATION MAPS		LOCATE AS REQUIRED BY FIRE MARSHAL



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STATE OF MISSOURI
DUDLEY C. CAMPBELL
NUMBER A-2010041447
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

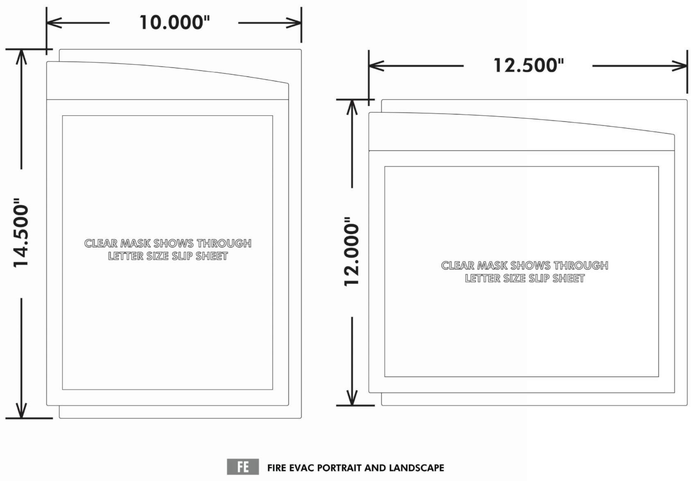
SIGNAGE PLAN - LEVEL 1

AF105

Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/LSMC Lee's Summit Medical Center ED RENO_ IDS_R23.rvt
7/31/2025 9:03:47 AM

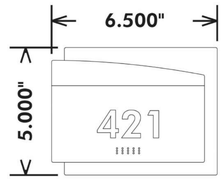
FOR REFERENCE ONLY - SIGNAGE TO MATCH FACILITY STANDARDS

STANDARD SYMBOLS

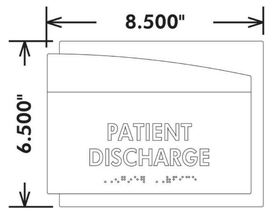


FE FIRE EVAC PORTRAIT AND LANDSCAPE

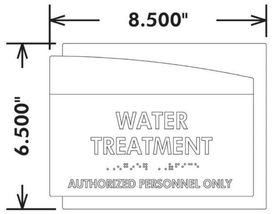
PH POSTER HOLDER



U UNIT SIGN



P ROOM ID SIGN



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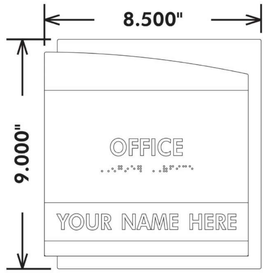
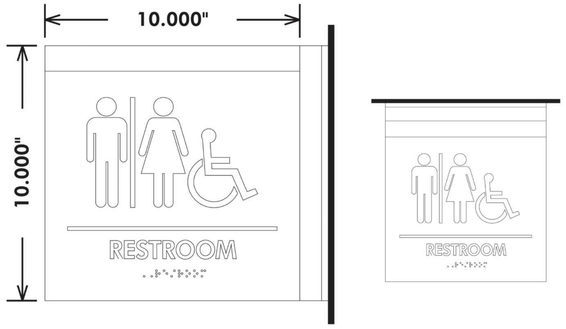
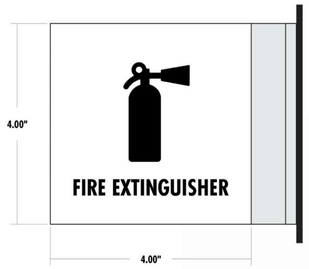


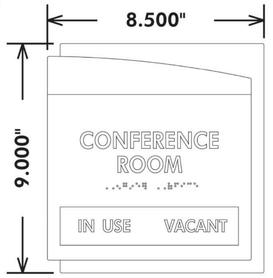
P3 ROOM ID SIGN W/ NAME SLIDER



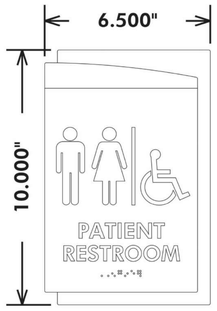
PS PROJECTING SIGN CEILING AND WALL MOUNTED



BW BLADEWALL / 4"

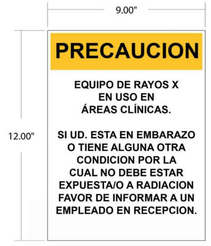


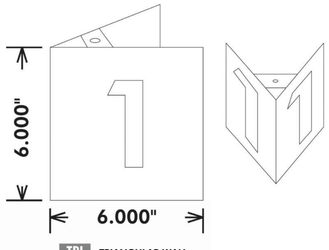
P2 ROOM ID SIGN W/ IN USE SLIDER



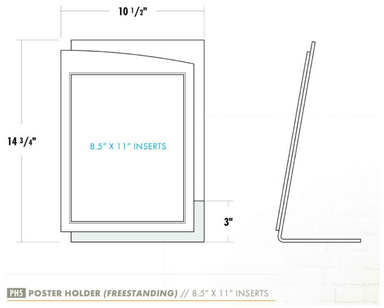
S SYMBOL SIGN

I INFO SIGN

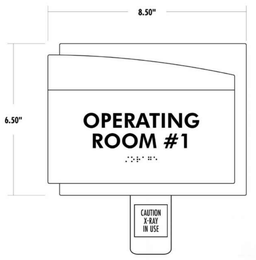




TRI TRIANGULAR WALL MOUNTED SIGNS



PH-S POSTER HOLDER *(FREESTANDING)* // 8.5" X 11" INSERTS



PH-A PATIENT INDICATOR / WITH ALERTTAB

I INFORMATIONAL SIGN

WHITE
BLACK
YELLOW

Devenney Group

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STATE OF MISSOURI
HUDLEY C. CAMPBELL
NUMBER
A-2021000749

DATE SIGNED: 04.18.25

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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

DATE:	2025.04.18
SCALE:	
DRAWN:	PC
REVIEWED:	PF
JOB NUMBER:	6406.24.0003

SIGNAGE KEY

AF106

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4/23/2025 2:53:09 PM

FOR REFERENCE ONLY - SIGNAGE TO MATCH FACILITY STANDARDS

BENNU
ARCHITECTURAL SIGNAGE

PREPARED BY
TONY HATCHELL
BENNU ENTERPRISES, INC.
615.522.4588

DATED 03-22-2017

STANDARD SYMBOLS

STANDARD TYPEFACE
FUTURA HEAVY BT

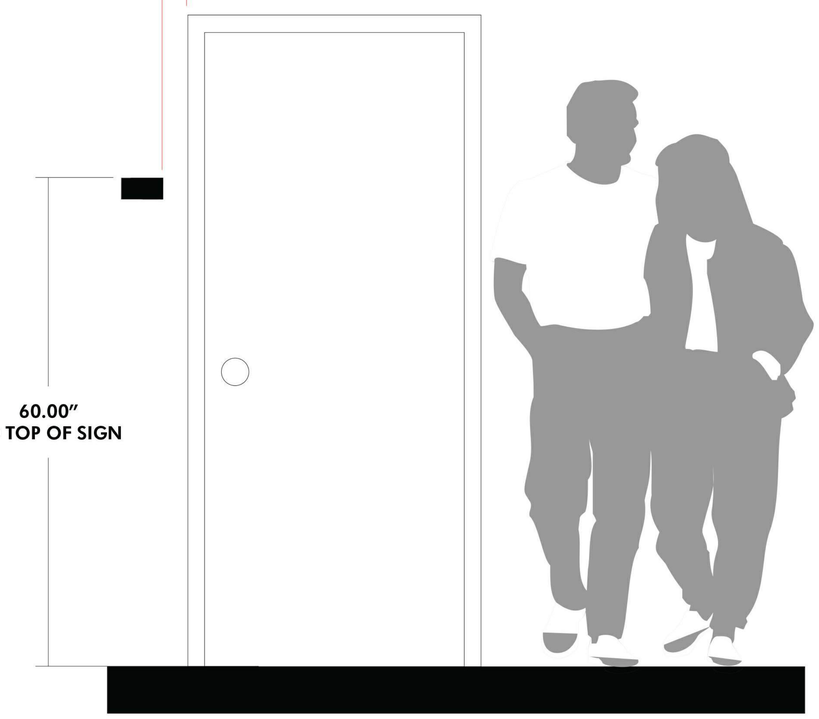
ABCDEFGHI
JKLMNOPQ
RSTUVWXY

SIGN FAMILY:

ZEUS

INSTALLATION LOCATIONS

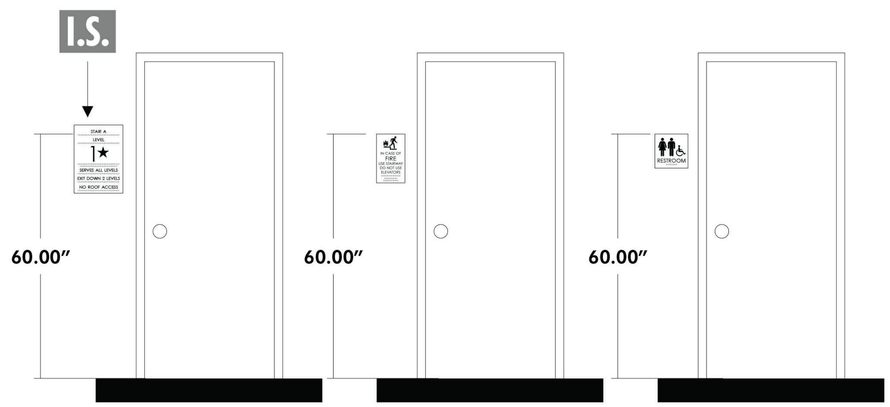
ALL SIGNS TO BE MOUNTED 3" FROM THE EDGE OF THE DOOR FRAME TO THE LEADING EDGE OF THE SIGN UNLESS OTHERWISE OBSTRUCTED BY AN ADJACENT WALL OR OTHER OBSTRUCTION. IN THAT CASE SIGN TO BE CENTERED INTO AREA. IE - IF IT IS TOO TIGHT TO ALLOW THE 3" DISTANCE - AS LONG AS SIGN FITS ON GIVEN WALL AREA IT IS TO GO ON LATCH SIDE AND BE CENTERED ONTO AVAILABLE WALL SPACE.



SCALE 3/4"=1'-0"

ALL ADA SIGNS TO BE INSTALLED ON LATCH SIDE OF DOOR

INSTALL I.S. SIGNS SO THAT TOP LINE OF BRAILLE TO BE AT 60"



TYPICAL SIGN PROGRAM PLACEMENTS SHOWN

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DUDLEY C. CAMPBELL
NUMBER
A - 2007020749

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REVISIONS		
REV #	DESCRIPTION	DATE

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SIGNAGE KEY

AF107

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