



# 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:  
2025/04/18

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HCA CONSTRUCTION MANAGER: ERIC SJODIN

<b>SUBMITTALS:</b>	<b>DATE:</b>
<b>CITY &amp; STATE - 1ST REVIEW</b>	<b>04/18/2025</b>



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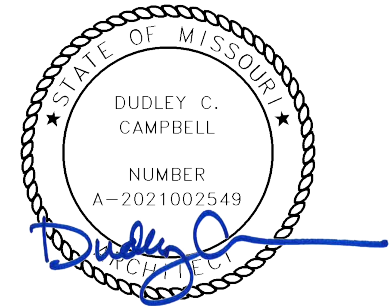
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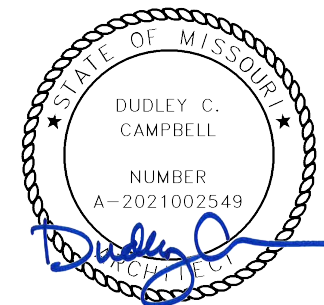
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DATE SIGNED: 04.18.25

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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: LL  
DRAWN: DP/MM  
REVIEWED: 6406.24.0003  
JOB NUMBER:

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GI001

4/23/2025 5:04:03 PM Autodesk Doc./6406.24 - HCA - Lee's Summit Medical Center (LSMC) - 7/23/24 6406.24.0003 HCA - LSMC ED Expansion - R23.rvt 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. Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule.



GENERAL NOTES		GENERAL NOTES, CONT.		DEMOLITION NOTES																																																																																																													
<p>A. ALL PLUMBING WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES AND ORDINANCES INCLUDING, BUT NOT LIMITED TO, THE LEE'S SUMMIT, MISSOURI, PLUMBING AND BUILDING CODES &amp; ORDINANCES, NFPA 13 &amp; 14, THE AMERICAN DISABILITIES ACT AND THE LIFE SAFETY CODE. IT IS A REQUIREMENT OF THIS CONTRACT THAT THE CONTRACTOR BE EXPERIENCED IN THIS TYPE OF WORK AND BE THOROUGHLY FAMILIAR WITH THE REQUIREMENTS OF THE APPLICABLE CODES, WHETHER SPECIFICALLY REFERRED TO IN THE DOCUMENTS OR NOT.</p> <p>B. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY ALL NECESSARY FEES FOR THE PLUMBING WORK.</p> <p>C. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO PROVIDE COMPLETE AND WORKING PLUMBING SYSTEMS, AS DESCRIBED IN THE CONTRACT DOCUMENTS, AND FULLY COORDINATED WITH ALL OTHER TRADES.</p> <p>D. REFER TO THE SPECIFICATIONS, THE DRAWINGS AND MANUFACTURER'S CUT SHEETS FOR COMPLETE INFORMATION ON MATERIALS AND METHODS REQUIRED TO INSTALL THE PLUMBING SYSTEMS.</p> <p>E. ALL PLUMBING WORK DONE UNDER THIS CONTRACT SHALL BE ACCOMPLISHED IN A SKILLED WORKMANLIKE AND PROFESSIONAL MANNER.</p> <p>F. ALL PLUMBING AND FIRE PROTECTION PIPING SHALL BE INDEPENDENTLY SUPPORTED, AND EACH SUPPORT SHALL BE INDEPENDENT OF PARTITION AND CEILING SYSTEM SUPPORTS. WHERE INDEPENDENT SUPPORT IS NOT POSSIBLE, AN ENGINEERED SUPPORT SYSTEM SHALL BE UTILIZED. HOLD ALL PIPING IN CEILING SPACES HIGH TO STRUCTURE AS POSSIBLE.</p> <p>G. ALL WORK SHALL BE SCHEDULED AND PERFORMED IN COORDINATION WITH ARCHITECTURAL PLANS, PROJECT SCHEDULES AND HOSPITAL OPERATIONS &amp; REQUIREMENTS. COORDINATE ALL REQUIRED SHUT DOWN OF SYSTEMS OR OUT OF PHASE WORK WITH THE OWNER'S REPRESENTATIVE &amp; HOSPITAL PERSONNEL.</p> <p>H. THE CONTRACTOR SHALL PROTECT THE PLUMBING EQUIPMENT AND FIXTURES FROM DAMAGE DURING HANDLING AND INSTALLATION AND UNTIL THE PROJECT IS COMPLETED. ANY EQUIPMENT OR FIXTURE THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED, AT THE ARCHITECT AND ENGINEER'S DISCRETION, AND AT THE CONTRACTOR'S EXPENSE.</p> <p>I. THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT AND FIXTURES UPON COMPLETION OF THE PROJECT.</p> <p>J. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BIDDING TO VERIFY THE EXACT SIZE AND LOCATION OF ALL EXISTING PIPING RELATED TO HIS WORK.</p> <p>K. THE CONTRACTOR SHALL COORDINATE THE PLUMBING WORK WITH ALL OTHER TRADES. WORK SHOWN ON THE DRAWINGS IS INTENDED TO PROVIDE THE OVERALL ENGINEERING DESIGN CONCEPT AND MAY REQUIRE RELOCATIONS, FIELD ADJUSTMENTS OR OFFSETS TO COORDINATE WITH OTHER TRADES AND THE BUILDING STRUCTURE. COSTS FOR ALL SUCH MINOR FIELD ADJUSTMENTS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.</p> <p>L. IT IS THE REQUIREMENT OF THESE DOCUMENTS TO ALLOW ALL CEILINGS TO BE CONSTRUCTED AT HEIGHTS AS SHOWN ON THE ARCHITECTURAL DRAWINGS. COORDINATE THE LOCATION OF PIPING AND PROVIDE OFFSETS IN PIPING AS REQUIRED TO MEET THIS REQUIREMENT.</p> <p>M. THE CONTRACTOR SHALL PROVIDE DETAILED AND DIMENSIONED PIPING FABRICATION DRAWINGS FOR APPROVAL BY THE ARCHITECT/ENGINEER. ONE BLUE-LINE SET OF THE APPROVED DRAWINGS SHALL BE KEPT ON-SITE AT ALL TIMES AND ANY CHANGES REQUIRED IN THE FIELD SHALL BE MARKED ON THESE DRAWINGS. AT THE END OF THE PROJECT, ALL CHANGES SHALL BE TRANSFERRED TO A REPRODUCIBLE DRAWING TO BE GIVEN TO THE OWNER FOR "AS-BUILT" DRAWINGS. REPRODUCTIONS OF THIS DRAWING WILL NOT BE CONSIDERED AS PIPING FABRICATION DRAWINGS.</p> <p>N. ALL PLUMBING EQUIPMENT OR VALVES REQUIRING ACCESS THAT ARE LOCATED ABOVE GYP. BOARD OR OTHERWISE INACCESSIBLE CEILINGS SHALL BE PROVIDED WITH A CEILING ACCESS PANEL SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THESE ACCESS PANELS WITH THE GENERAL CONTRACTOR.</p> <p>O. LOCATE ISOLATION VALVES FOR EQUIPMENT AND FIXTURES AS CLOSE TO THE MAIN AS POSSIBLE. PROVIDE CEILING OR WALL ACCESS PANELS AS NEEDED.</p>		<p>P. COORDINATE ALL WALL MOUNTED DEVICE LOCATIONS WITH ARCHITECTURAL INTERIOR ELEVATIONS.</p> <p>Q. ALL CONNECTIONS BETWEEN PIPES OF DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC UNIONS.</p> <p>R. ALL PLUMBING PIPING SHALL BE IDENTIFIED AS DESCRIBED IN THE SPECIFICATIONS.</p> <p>S. ALL PLUMBING VALVES SHALL BE TAGGED AND NOTED ON THE "AS-BUILT" DRAWINGS.</p> <p>T. SLOPE AND ARRANGE WATER PIPING SYSTEMS TO ESTABLISH HIGH POINTS FOR AIR ELIMINATION AND LOW POINTS TO PERMIT PROPER DRAINING OF EACH SECTION.</p> <p>U. COORDINATE ALL PIPING PENETRATIONS THROUGH THE ROOF AND FLOOR WITH THE BUILDING'S STRUCTURE. REFER TO THE PLUMBING PENETRATION DETAILS, THE ARCHITECTURAL DRAWINGS AND THE PLUMBING SPECIFICATIONS FOR SLEEVING AND SUPPORT INFORMATION.</p> <p>V. PROVIDE CLEANOUTS AT THE BASE OF ALL STORM AND SANITARY STACKS AND IN INDIVIDUAL WASTE &amp; VENT STACKS AS SHOWN ON THE RISERS.</p> <p>W. LOCATE VENTS THROUGH THE ROOF AT LEAST 25' AWAY FROM ALL FRESH AIR INTAKES OR BUILDING OPENINGS.</p> <p>X. LOCATE ALL WALL CLEANOUTS 18" ABOVE THE FINISHED FLOOR.</p> <p>Y. PROVIDE BACKFLOW PREVENTION DEVICES APPROVED BY THE AHJ FOR ALL ITEMS OF EQUIPMENT THAT ARE REQUIRED BY THE AHJ TO HAVE CROSS CONTAMINATION PROTECTION, WHETHER SHOWN ON THE DRAWINGS OR NOT.</p> <p>Z. PROVIDE A PRV AT THE DOMESTIC WATER SERVICE ENTRANCE TO LIMIT WATER SYSTEM PRESSURE TO THE BUILDING TO 80 PSI.</p> <p>AA. RUN ALL PIPING IN WALLS, CHASES AND ABOVE THE CEILING. PROVIDE CHROME PLATED PIPING WHERE EVER PIPING HAS TO BE EXPOSED.</p> <p>BB. PROVIDE DRIP PANS UNDER PLUMBING LINES WERE REQUIRED BY CODE AND/OR THE OWNER.</p> <p>CC. PROVIDE ACCESS TO ALL VALVES AND TRAP PRIMERS.</p>		<p>A. ALL SECTIONS OF PLUMBING PIPING THAT ARE SHOWN TO BE DEMO'D SHALL BE REMOVED BACK TO MANS. OR NEAREST ACTIVE LINES, AND CAPPED OR PLUGGED SO THAT NO DEAD ENDS ARE CREATED.</p> <p>B. ALL DEMOLITION WORK SHALL BE SCHEDULED AND PERFORMED IN STRICT COORDINATION WITH ARCHITECTURAL PHASING PLANS, HOSPITAL SCHEDULES, AREA OCCUPANCIES AND OTHER TRADES.</p> <p>C. ALL DEMOLISHED ITEMS THAT ARE NOT RETAINED BY THE OWNER AND ARE NOT CALLED OUT TO BE REINSTALLED BY THE CONTRACT DOCUMENTS SHALL BE DISPOSED OF LEGALLY.</p> <p>D. ANY EXISTING PLUMBING RISERS EXPOSED BY THE REMOVAL OF EXISTING WALLS OR CHASES SHALL BE RELOCATED TO A NEARBY LOCATION AS NOTED ON THE DRAWINGS OR AS APPROVED BY THE ARCHITECT.</p> <p>E. THE CONTRACTOR SHALL REPLACE ALL DAMAGED CEILING TILES AND REPAIR ALL DAMAGED WALL FINISHES DURING DEMOLITION WORK.</p> <p>F. PROVIDE ADDITIONAL VALVES, FITTINGS AND/OR PIPING AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE AND INSIDE OF THE AREA WHERE WORK IS BEING PERFORMED.</p> <p>G. INFORMATION PROVIDED ON THESE DRAWINGS HAS BEEN TAKEN FROM DESIGN DRAWINGS AND FIELD OBSERVATIONS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PRICING AND COMMENCEMENT OF WORK.</p> <p>H. ALL EXISTING PIPING THAT IS CAPPED OFF OR PLUGGED DURING DEMOLITION SHALL BE CHECKED FOR LEAKS.</p> <p>I. PROVIDE AND INSTALL ALL NECESSARY PIPING AND ACCESSORIES REQUIRED TO MAINTAIN SERVICE TO ALL "EXISTING TO REMAIN" FIXTURES AND EQUIPMENT THAT MAY BE INTERRUPTED DURING DEMOLITION.</p> <p>J. WHERE EXISTING MECHANICAL EQUIPMENT IS DEMOLISHED, REMOVE ALL RELATED PLUMBING TO THE EQUIPMENT AND THEIR ASSOCIATED PIPING BACK TO THE POINT OF ORIGINATION.</p> <p>K. ANY FLOOR DRAIN OR FLOOR SINK INDICATED TO BE REMOVED SHALL BE REMOVED COMPLETELY.</p> <p>L. EXISTING FIXTURES AND EQUIPMENT NOT INDICATED TO BE REMOVED SHALL REMAIN IN USE.</p>																																																																																																													
		<p>PLUMBING ABBREVIATIONS</p> <table><tr><td>ABV</td><td>ABOVE</td><td>GPM</td><td>GALLONS PER MINUTE</td></tr><tr><td>AFF</td><td>ABOVE FINISHED FLOOR</td><td>GW</td><td>GREASE WASTE</td></tr><tr><td>AFG</td><td>ABOVE FINISH GRADE</td><td>HB</td><td>HOSE BIBB</td></tr><tr><td>AP</td><td>ACCESS PANEL</td><td>HD</td><td>HUB DRAIN</td></tr><tr><td>AD</td><td>AREA DRAIN</td><td>HW</td><td>HOT WATER</td></tr><tr><td>AD</td><td>AREA DRAIN</td><td>HW</td><td>HOT WATER RETURN</td></tr><tr><td>BFF</td><td>BELOW FINISH FLOOR</td><td>HWR</td><td>HOT WATER RETURN</td></tr><tr><td>BIG</td><td>BELOW GRADE</td><td>I.E.</td><td>INVERT ELEVATION</td></tr><tr><td>BV</td><td>BALANCING VALVE</td><td>L</td><td>LAVATORY</td></tr><tr><td>CA</td><td>COMPRESSED AIR</td><td>MH</td><td>MANHOLE</td></tr><tr><td>CO</td><td>CLEAN OUT</td><td>MS</td><td>MOP SINK</td></tr><tr><td>CSS</td><td>CLINICAL SERVICE SINK</td><td>NC</td><td>NORMALLY CLOSED VALVE</td></tr><tr><td>CW</td><td>COLD WATER</td><td>NO</td><td>NORMALLY OPEN VALVE</td></tr><tr><td>DD</td><td>DECK DRAIN</td><td>NFVH</td><td>NON-FREEZE WALL HYDRANT</td></tr><tr><td>DF</td><td>DRINKING FOUNTAIN</td><td>NFYH</td><td>NON-FREEZE YARD HYDRANT</td></tr><tr><td>DN</td><td>DOWN</td><td>OS&amp;Y</td><td>OUTSIDE STEM AND YOKE</td></tr><tr><td>DS</td><td>DOWNSPOUT</td><td>PD</td><td>PLANTER DRAIN</td></tr><tr><td>DSN</td><td>DOWNSPOUT NOZZLE</td><td>PRV</td><td>PRESSURE REDUCING VALVE</td></tr><tr><td>ESH</td><td>EMERGENCY SHOWER</td><td>TMV</td><td>THERMOSTATIC MIXING VALVE</td></tr><tr><td>EW</td><td>EYE WASH</td><td>T&amp;P</td><td>TEMPERATURE AND PRESSURE VALVE</td></tr><tr><td>EWC</td><td>ELECTRIC WATER COOLER</td><td>TP</td><td>TRAP PRIMER</td></tr><tr><td>FCVA</td><td>FLOOR CONTROL VALVE ASSEMBLY</td><td>V</td><td>VENT PIPING</td></tr><tr><td>FO</td><td>FLOOR CLEANOUT</td><td>VB</td><td>VACUUM BREAKER</td></tr><tr><td>FD</td><td>FLOOR DRAIN</td><td>VTR</td><td>VENT THROUGH ROOF</td></tr><tr><td>FS</td><td>FLOOR SINK</td><td>WB</td><td>WALL BOX</td></tr><tr><td>GQ</td><td>GENERAL CONTRACTOR</td><td></td><td></td></tr><tr><td>GCO</td><td>GRADE CLEANOUT</td><td></td><td></td></tr></table>		ABV	ABOVE	GPM	GALLONS PER MINUTE	AFF	ABOVE FINISHED FLOOR	GW	GREASE WASTE	AFG	ABOVE FINISH GRADE	HB	HOSE BIBB	AP	ACCESS PANEL	HD	HUB DRAIN	AD	AREA DRAIN	HW	HOT WATER	AD	AREA DRAIN	HW	HOT WATER RETURN	BFF	BELOW FINISH FLOOR	HWR	HOT WATER RETURN	BIG	BELOW GRADE	I.E.	INVERT ELEVATION	BV	BALANCING VALVE	L	LAVATORY	CA	COMPRESSED AIR	MH	MANHOLE	CO	CLEAN OUT	MS	MOP SINK	CSS	CLINICAL SERVICE SINK	NC	NORMALLY CLOSED VALVE	CW	COLD WATER	NO	NORMALLY OPEN VALVE	DD	DECK DRAIN	NFVH	NON-FREEZE WALL HYDRANT	DF	DRINKING FOUNTAIN	NFYH	NON-FREEZE YARD HYDRANT	DN	DOWN	OS&Y	OUTSIDE STEM AND YOKE	DS	DOWNSPOUT	PD	PLANTER DRAIN	DSN	DOWNSPOUT NOZZLE	PRV	PRESSURE REDUCING VALVE	ESH	EMERGENCY SHOWER	TMV	THERMOSTATIC MIXING VALVE	EW	EYE WASH	T&P	TEMPERATURE AND PRESSURE VALVE	EWC	ELECTRIC WATER COOLER	TP	TRAP PRIMER	FCVA	FLOOR CONTROL VALVE ASSEMBLY	V	VENT PIPING	FO	FLOOR CLEANOUT	VB	VACUUM BREAKER	FD	FLOOR DRAIN	VTR	VENT THROUGH ROOF	FS	FLOOR SINK	WB	WALL BOX	GQ	GENERAL CONTRACTOR			GCO	GRADE CLEANOUT				
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PROJECT DESIGN CRITERIA

LOCATION:	
CITY/STATE:	LEE'S SUMMIT, MO
APPLICABLE CODES:	
BUILDING	2018 IRC w/LOCAL AMENDMENTS
MECHANICAL	2018 IMC w/LOCAL AMENDMENTS
PLUMBING	2018 UPC w/LOCAL AMENDMENTS
ELECTRICAL	2017 NEC w/LOCAL AMENDMENTS

PROJECT DESIGN CRITERIA	
LOCATION:	LEE'S SUMMIT, MO
CITY/STATE:	
APPLICABLE CODES:	
BUILDING	2018 IBC w/LOCAL AMENDMENTS
MECHANICAL	2018 UPC w/LOCAL AMENDMENTS
PLUMBING	2018 IPC w/LOCAL AMENDMENTS
FIRE	2017 NEC w/LOCAL AMENDMENTS
ELECTRICAL	

PLUMBING SYMBOLS			
ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
— — — — —	DOMESTIC COLD WATER (CW)		PRESSURE GAUGE WITH GAUGE COCK
— — — — —	DOMESTIC HOT WATER (HW)		THERMOMETER WITH GAUGE COCK
— — — — —	DOMESTIC HOT WATER RETURN (HWR)		HOSE BIBB (HB)
— NPW —	NON-POTABLE WATER		FLOOR CLEANOUT OR GRADE CLEANOUT (FCO, GCO)
— TP —	TRAP PRIMER LINE (1/2")		WALL CLEANOUT (WCO)
— TW —	TEMPERED WATER		CLEANOUT PLUG
	COLD OR HOT REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPZ)		DIRECTION OF SLOPE - GRAVITY PIPING
— — — — —	EXISTING PIPING TO REMAIN		DIRECTION OF FLOW - PRESSURE PIPING
× — — — ×	EXISTING PIPING TO BE REMOVED		PIPING CAPPED OFF
— SS —	SANITARY SEWER/WASTE PIPING		BALANCING VALVE
— — — — —	SANITARY VENT PIPING		STRAINER
— IW —	INDIRECT WASTE		SHOCK ARRESTOR
	CONNECT NEW TO EXISTING		HUB DRAIN (HD)
— SD —	STORM DRAIN PIPING		FLOOR DRAIN (FD)
— OD —	OVERFLOW STORM DRAIN PIPING		LEGEND NOTE
— CA —	COMPRESSED AIR PIPING		FUEL OIL SUPPLY PIPING
— GW —	GREASY WASTE		FUEL OIL RETURN PIPING
— SSD —	SUBSOIL/PERIMETER DRAIN PIPING		DRY FIRE STANDPIPE PIPING
— — — — —	BUTTERFLY VALVE		SPRINKLER PIPING
	BALL VALVE		DRY SPRINKLER PIPING
	GLOBE VALVE		FIRE PROTECTION PIPING
	TEMPERATURE AND PRESSURE RELIEF VALVE		CONNECT TO EXISTING
	GAS COCK / PLUG VALVE		DEMOLISH TO
	SOLENOID VALVE		
	PRESSURE REGULATING VALVE		
	AQUATAST		
	CHECK VALVE		
	GATE VALVE		

MEDICAL GAS SYMBOLS	
SYMBOL	DESCRIPTION
— OX —	MEDICAL OXYGEN PIPING
— MA —	MEDICAL AIR PIPING
— MV —	MEDICAL VACUUM PIPING
— WAGD —	WASTE ANESTHETIC GAS DISPOSAL PIPING
— N —	MEDICAL NITROGEN PIPING
— N2O —	MEDICAL NITROUS OXIDE PIPING
— CO2 —	CARBON DIOXIDE PIPING
— IA —	INSTRUMENT AIR
	MEDICAL GAS PIPING DROPS IN WALL (FULL SIZE) TO WALL OUTLETS OR HEADWALL
	MASTER ALARM PANEL
	AREA ALARM PANEL
	ZONE VALVE BOX
	NITROGEN CONTROL PANEL
	PRESSURE/VACUUM SENSOR
	MAIN LINE PRESSURE/VACUUM GAUGE
	MEDICAL GAS AUXILIARY OUTLETS

MEDICAL GAS LEGEND	
MAI = MEDICAL AIR INTAKE MAP = MASTER ALARM PANEL MGB = MEDICAL GAS CEILING BOOM MGO = MEDICAL GAS CEILING COLUMN MGD = MEDICAL GAS DROP MGH = MEDICAL GAS HEADWALL MGO = MEDICAL GAS WALL OUTLET MGP = MEDICAL GAS PEDESTAL MVE = MEDICAL VACUUM EXHAUST NCP = NITROGEN CONTROL PANEL IA = MEDICAL EQUIPMENT INSTRUMENT AIR (FOR BRAKES ON MEDICAL BOOMS) LP N = LOW PRESSURE NITROGEN FOR BOOM BRAKES	MA = MEDICAL COMPRESSED AIR MV = MEDICAL VACUUM OX = OXYGEN S = SLIDE N = NITROGEN N2O = NITROUS OXIDE CO2 = CARBON DIOXIDE GAS WAGD = WASTE ANESTHETIC GAS DISPOSAL AAP = AREA ALARM PANEL ZVB = ZONE VALVE BOX
DEVICE	→ MGO-OX, MA, MV, S, N, IA, N2O, WAGD, CO2
OXYGEN	↑
MEDICAL COMPRESSED AIR	↑
MEDICAL VACUUM	↑
SLIDE	↑
	↑ CARBON DIOXIDE
	↑ WASTE ANESTHETIC GAS DISPOSAL
	↑ NITROUS OXIDE
	↑ NITROGEN OR INSTRUMENT AIR
EXAMPLE:	
MEDICAL GAS NOTES: A. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF MEDICAL GAS OUTLETS, ZONE VALVE BOXES AND ALARM PANELS. B. NOT ALL GASES ARE TO BE USED AT EACH LOCATION. THE GAS ORDER SHOWN IN THE EXAMPLE IS TYPICAL FOR ALL OUTLETS. C. COORDINATE MEDICAL GAS PIPE ROUTINGS WITH ALL OTHER TRADES BEFORE INSTALLATION.	

Devenney GROUP

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Consultant:

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KANSAS CITY, MO 64105

04/18/2025  
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

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

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

FACILITY NUMBER:  
0972400011

AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

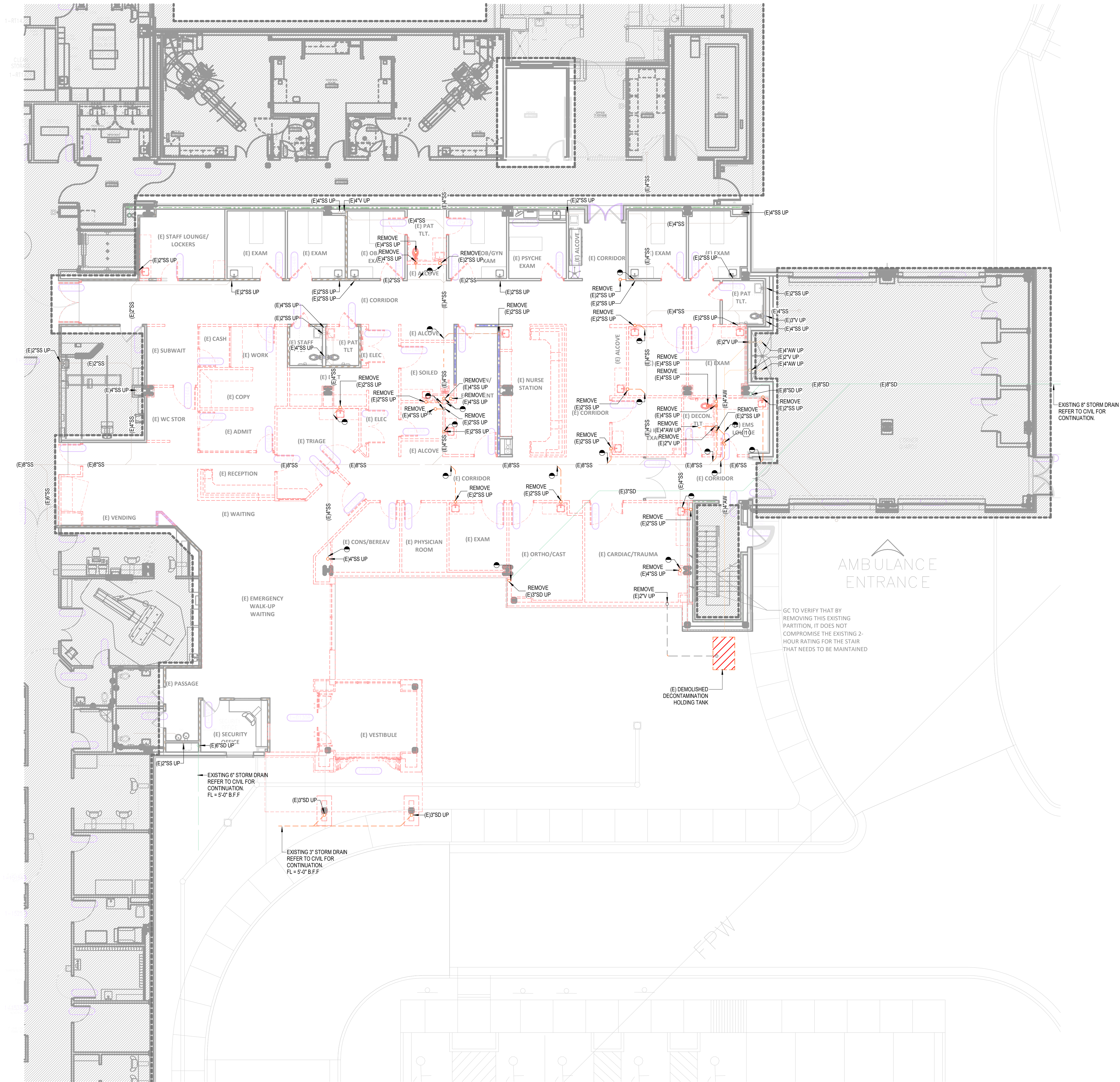
DATE: 04/18/25  
SCALE: 1/8" = 1'-0"  
DRAWN: WSP  
REVIEWED: WSP  
JOB NUMBER: U50040241.3707

GENERAL INFORMATION - PLUMBING

P00-00

4/22/2025 1:32:46 PM Autodes Docx/ Page 24 - HCA - Lee's Summit Medical Center (LSMC) - r023/MEP - LSME ED Expansion: R23.rvt 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.





GENERAL NOTES

A. REFER TO PD02-00 FOR GENERAL PLUMBING NOTES AND SYMBOLS.

LEGEND NOTES

- 1. REMOVE 2 WAY VALVE TO DIVERT FLOW TO SANDECONTAMINATION TANK.



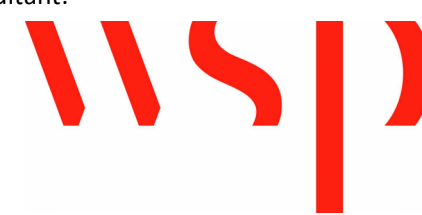
Devenney Group Ltd., Architects

6900 East Camelback Road  
Suite 500  
Scottsdale, AZ 85251

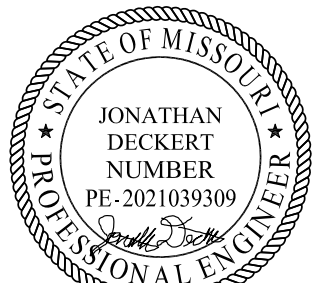
T: 602.943.8950

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Consultant:



300 WYANDOTTE, SUITE 200  
KANSAS CITY, MO 64105



04/18/2025  
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

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

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

FACILITY NUMBER:  
0972400011

AGENCY APPROVALS:  
AGENCY

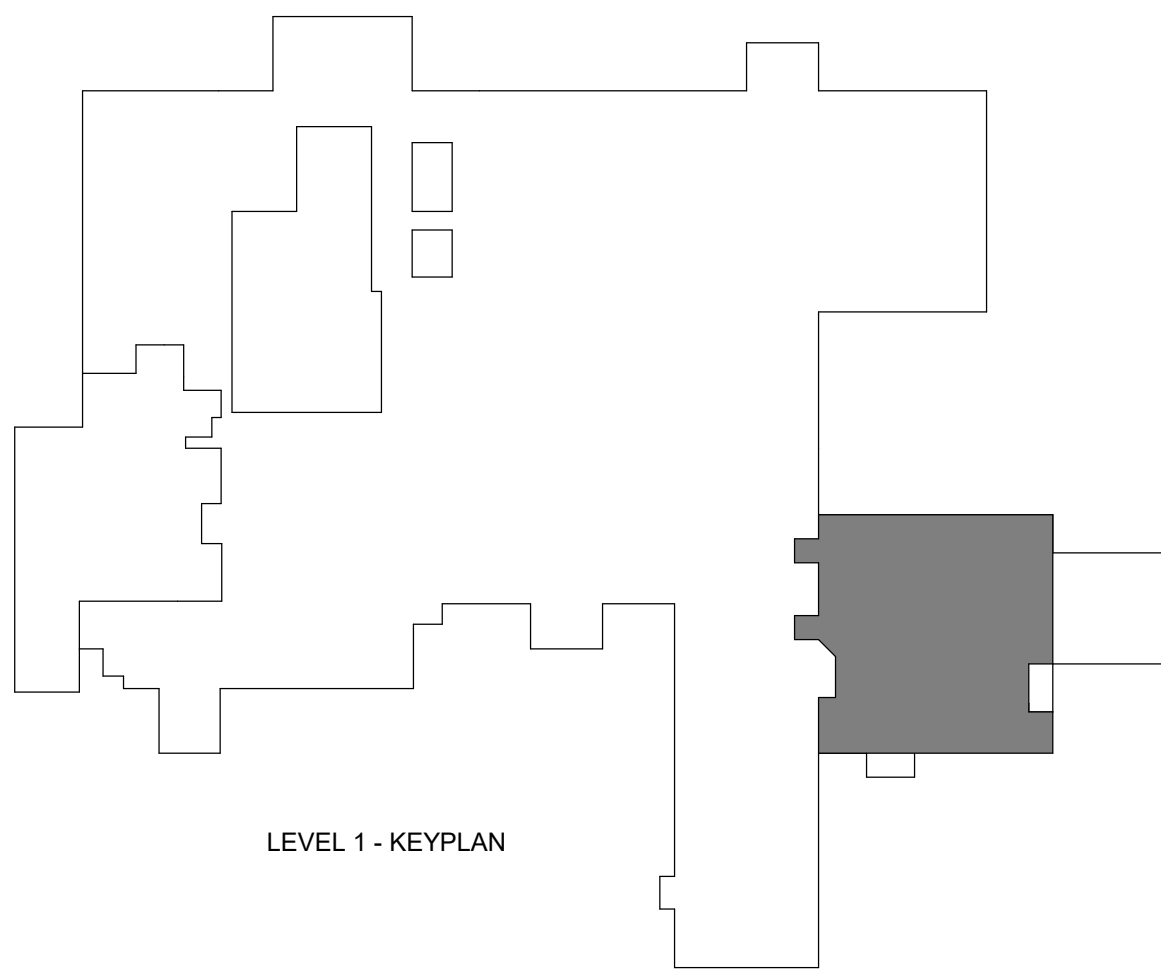
REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 04/18/25  
SCALE: 1/8" = 1'-0"  
DRAWN: WSP  
REVIEWED: WSP  
JOB NUMBER: U50040241.3707

DEMOLITION UNDERFLOOR  
PLAN - LEVEL 00 -  
PLUMBING

PD02-00

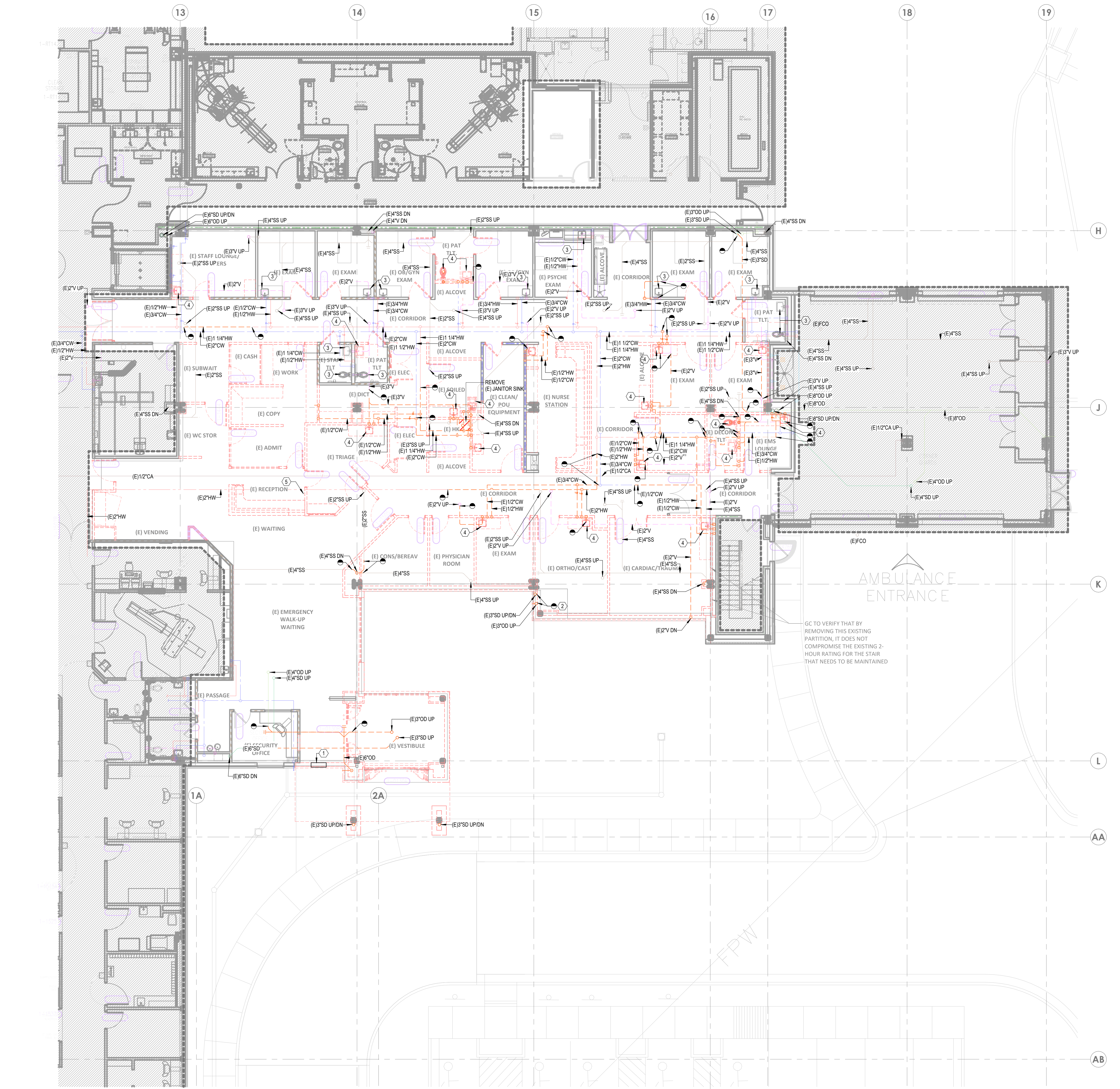
1 DEMOLITION UNDERFLOOR PLAN - LEVEL 00 - PLUMBING  
1/8" = 1'-0"



LEVEL 1 - KEYPLAN

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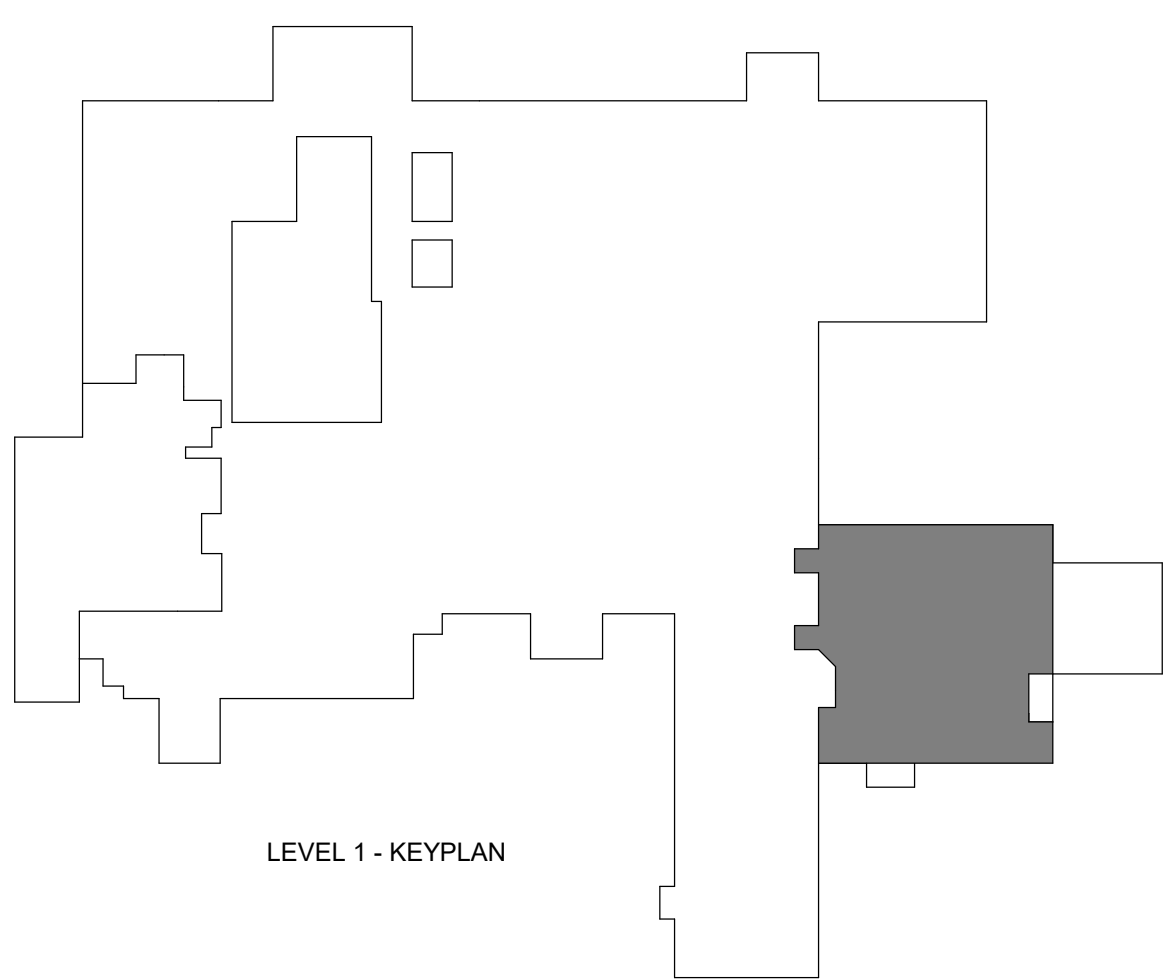
1 DEMOLITION PLAN - LEVEL 01 - PLUMBING  
1/8" = 1'-0"

## GENERAL NOTES

A. REFER TO P00-00 FOR GENERAL PLUMBING NOTES AND SYMBOLS.

## LEGEND NOTES

1. REMOVE EXISTING FIRE VALVE CABINET.
2. REMOVE PIPE TO THE FIRST FLOOR CEILING LEVEL.
3. EXISTING PLUMBING FIXTURES TO REMAIN.
4. REMOVE EXISTING PLUMBING FIXTURE WITH ALL ASSOCIATED WASTE AND SUPPLIES CAPPED.
5. EXISTING BOILER CONTROL PANEL TO BE RELOCATED.



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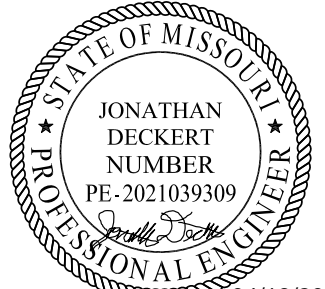
T: 602.943.8950

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Consultant:

WSP

300 WYANDOTTE, SUITE 200  
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04/18/2025  
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## ED EXPANSION

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AUTHORITY HAVING JURISDICTION:  
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MISSOURI DHSS

FACILITY NUMBER:  
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AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

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JOB NUMBER: U50040241.3707

DEMOLITION PLAN - LEVEL  
01 - PLUMBING

PD02-01

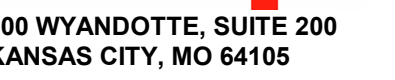


A. REFER TO P00-00 FOR GENERAL PLUMBING NOTES AND SYMBOLS

1. EXISTING AREA ALARM PANEL TO BE DEMOLISHED.
2. EXISTING MASTER ALARM CONTROL PANEL TO BE RELOCATED.
3. EXISTING MEDICAL OUTLETS TO BE DEMOLISHED.



consultant:



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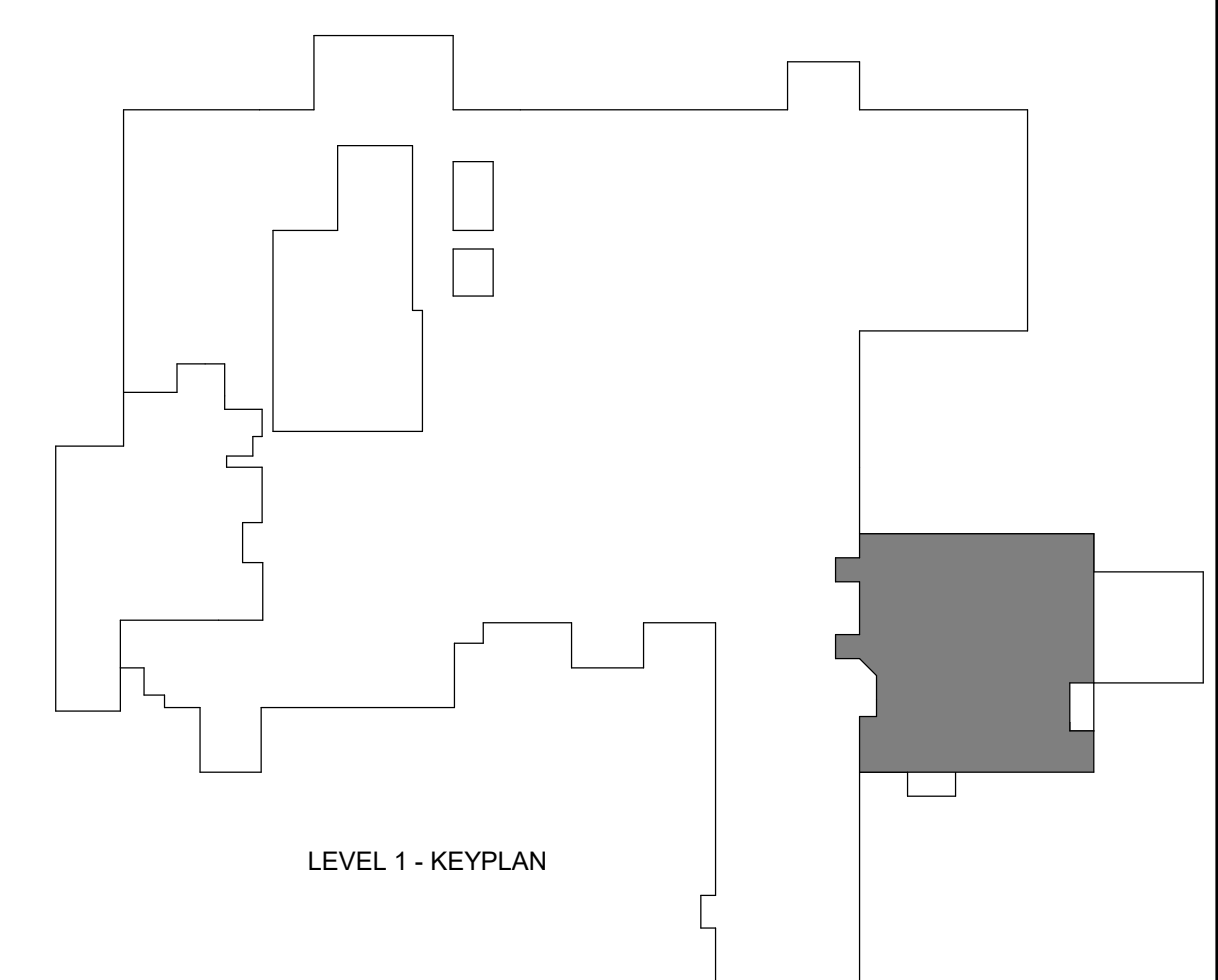
FACILITY NUMBER:  
072400011

AGENCY APPROVALS:  
AGENCY

DATE: 04/18/25  
SCALE: 1/8" = 1'-0"  
DRAWN: WSP  
REVIEWED: WSP  
JOB NUMBER: US0040241.3707

DEMOLITION PLAN - LEVEL  
1 - MEDICAL GAS

PD03-01



LEVEL 1 - KEYPLAN

1 DEMOLITION PLAN - LEVEL 01 - MEDICAL GAS  
1/8" = 1'-0"

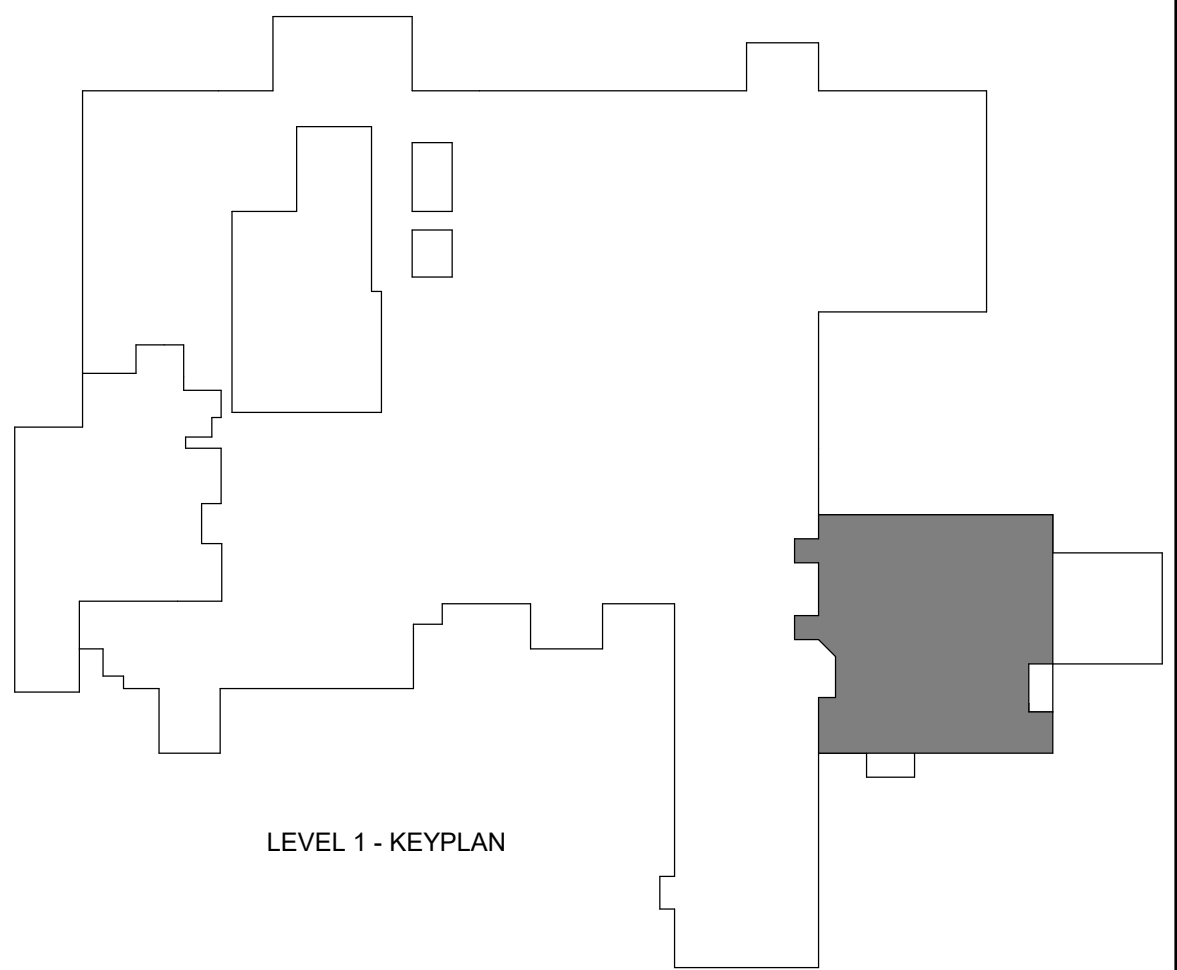


GENERAL NOTES

A. REFER TO P00-00 FOR GENERAL PLUMBING NOTES AND SYMBOLS.



1 UNDERFLOOR PLAN - LEVEL 00 - PLUMBING  
1/8" = 1'-0"



LEVEL 1 - KEYPLAN

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JONATHAN  
DICKERT  
NUMBER  
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04/18/2025  
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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:  
0972400011

AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 04/18/25  
SCALE: 1/8" = 1'-0"  
DRAWN: WSP  
REVIEWED: WSP  
JOB NUMBER: U50040241.3707

UNDERFLOOR PLAN - LEVEL  
00 - PLUMBING

P02-00



1 FLOOR PLAN - LEVEL 01 - PLUMBING  
1/8" = 1'-0"



## GENERAL NOTES

A. REFER TO P00-00 FOR GENERAL PLUMBING NOTES AND SYMBOLS.

## LEGEND NOTES

1. DECONTAMINATION TANK ALARM PANEL.
2. FIRE VALVE CABINET.
3. EXISTING PLUMBING FIXTURE TO REMAIN.
4. RELOCATED BOILER CONTROL PANEL.
5. INSTALL DRIP PAN BENEATH EXISTING PIPING LOCATED OVER NEW ELECTRICAL ROOM. INSTALL SENSOR IN DRIP PAN TO DETECT MOISTURE AND ALARM TO BUILDING MANAGEMENT SYSTEM.

Devenney  
GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road  
Suite 500  
Scottsdale, AZ 85251

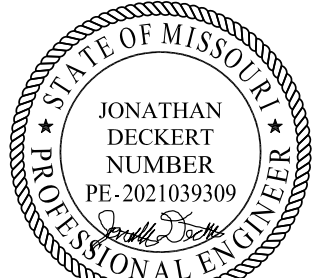
T: 602.943.8950

www.devenneygroup.com

Consultant:



300 WYANDOTTE, SUITE 200  
KANSAS CITY, MO 64105



04/18/2025  
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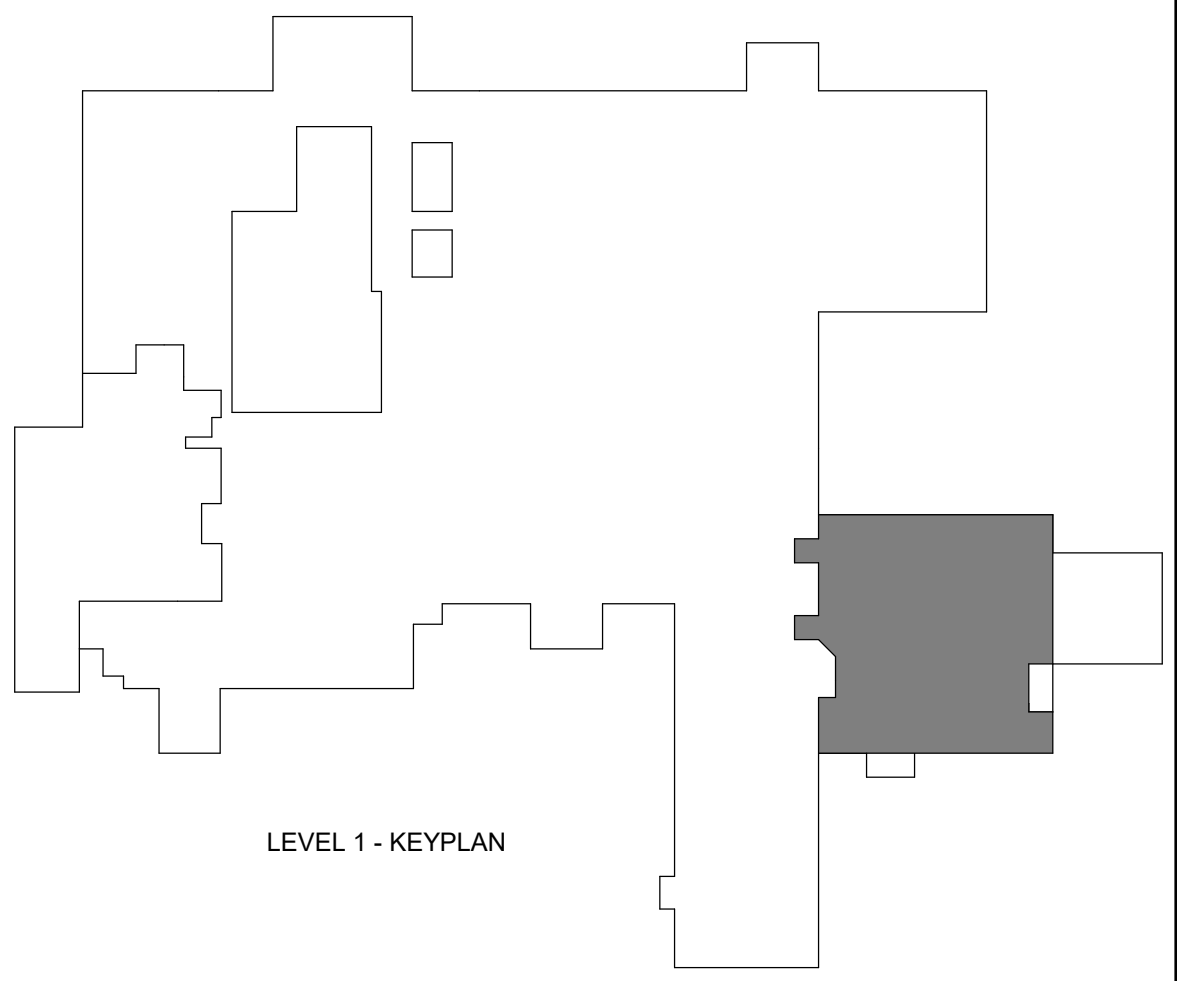
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FLOOR PLAN - LEVEL 01 -  
PLUMBING

P02-01

LEVEL 1 - KEYPLAN



Autodesk Docx/4/18/25 - HCA - Lee's Summit Medical Center (LSMC) - ED Expansion, R2.3.rvt 4/22/2025 1:53:53 PM 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.



1 FLOOR PLAN - LEVEL 01 - MEDICAL GAS  
1/8" = 1'-0"

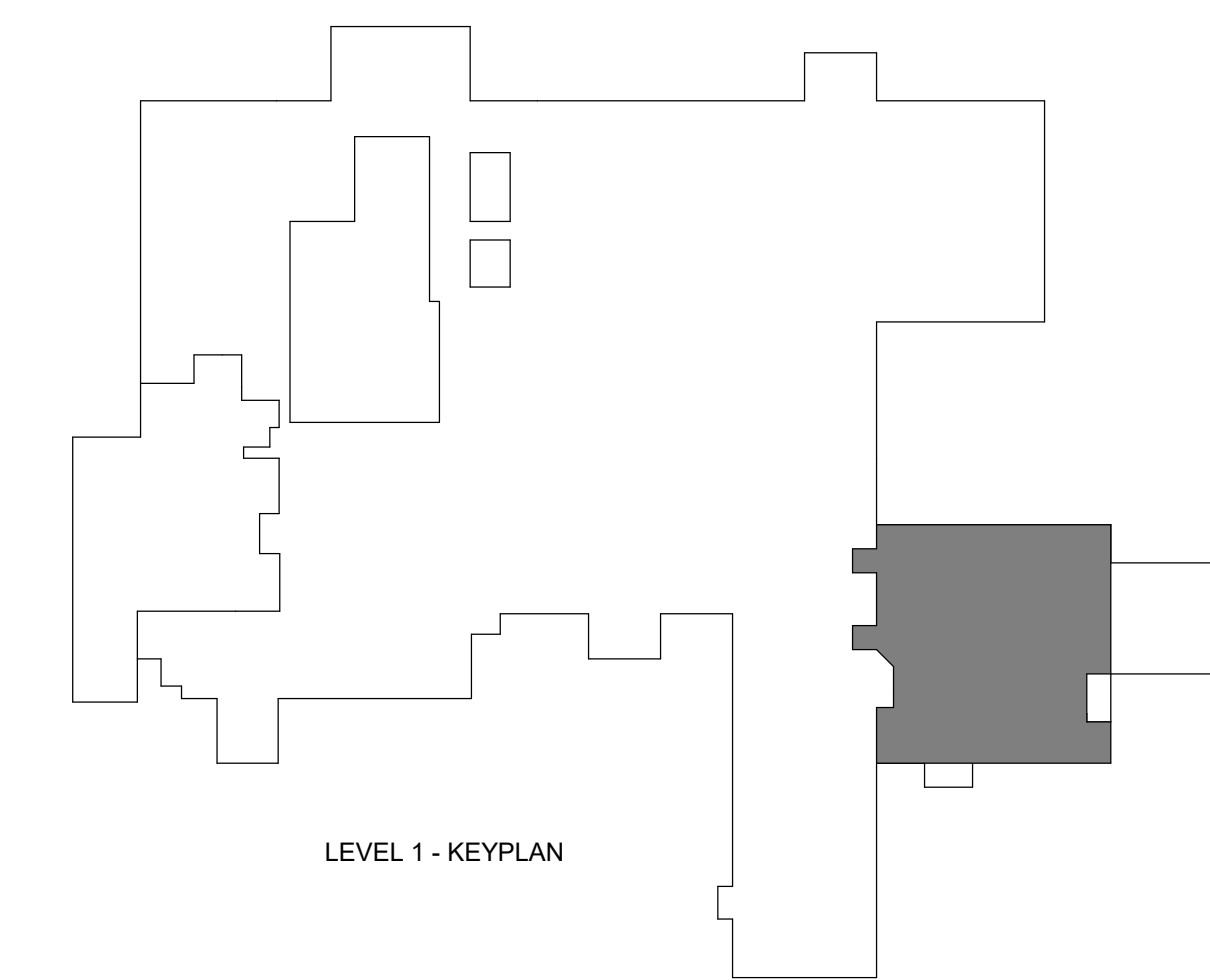


## GENERAL NOTES

A. REFER TO P00-00 FOR GENERAL PLUMBING NOTES AND SYMBOLS.

## LEGEND NOTES

1. AREA ALARM PANEL
2. RELOCATED MASTER ALARM CONTROL PANEL

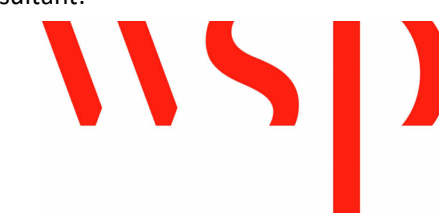


LEVEL 1 - KEYPLAN

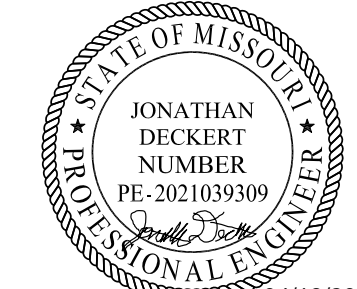


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04/18/2025  
WSP USA Buildings Inc. 2013001881

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## ED EXPANSION

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AUTHORITY HAVING JURISDICTION:  
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FACILITY NUMBER:  
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AGENCY APPROVALS:  
AGENCY

REVISIONS		
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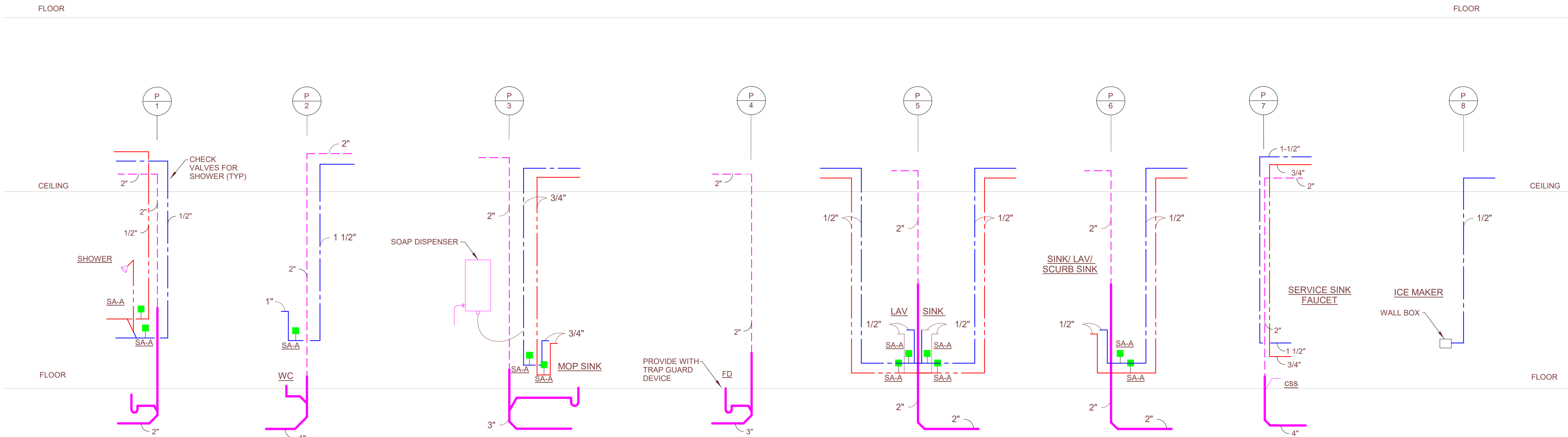
DATE: 04/18/25  
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FLOOR PLAN - LEVEL 01 -  
MEDICAL GAS

P03-01

Autodesk Docx/Bldg24 - HCA - Lee's Summit Medical Center (LSMC) - ED Expansion, R23.rvt  
4/22/2025 1:33:00 PM  
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① Riser diagram  
NTS

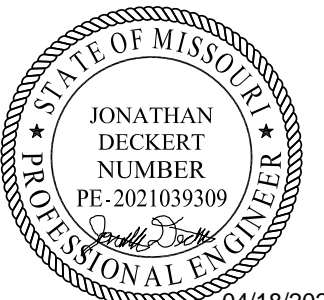


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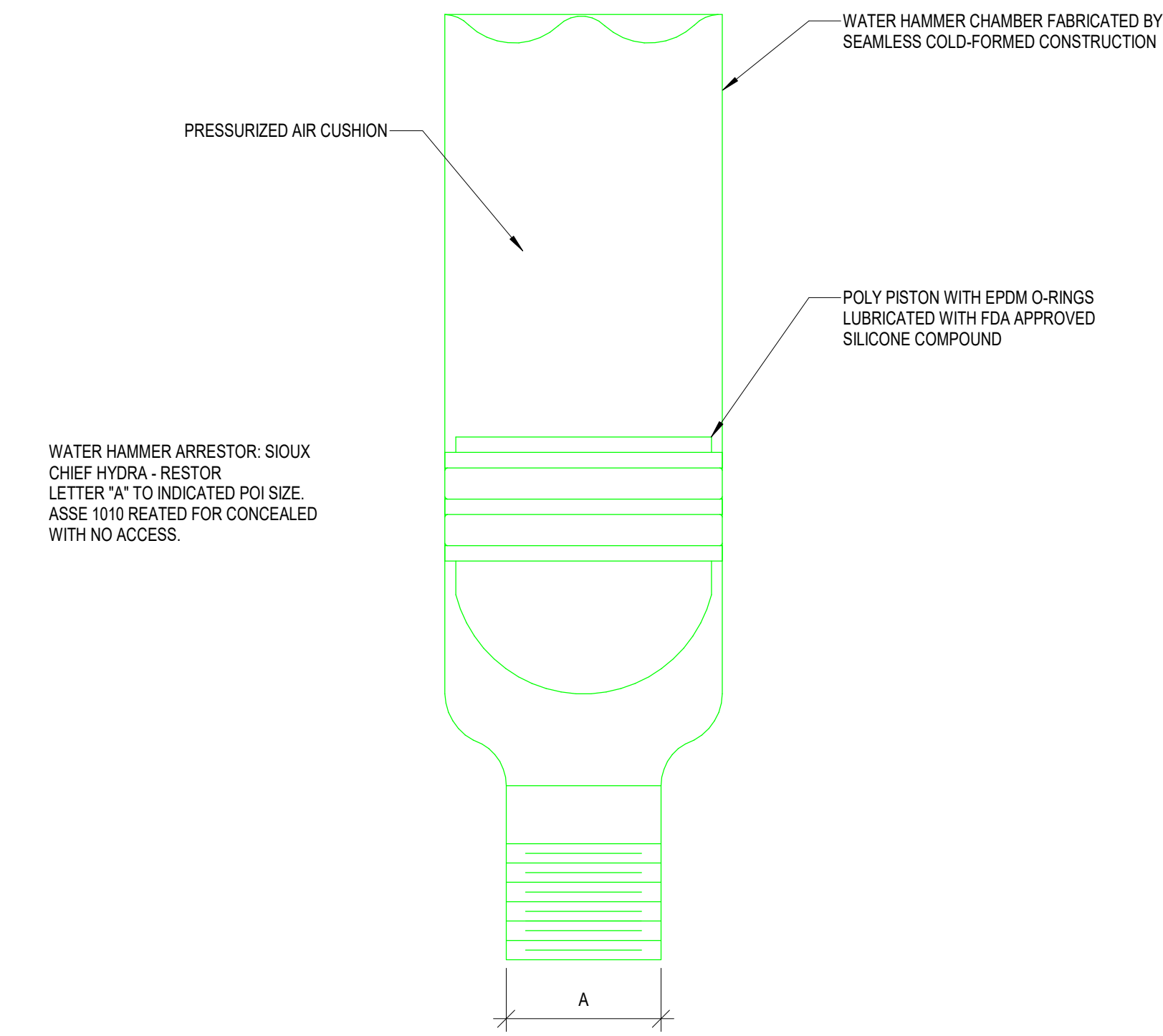
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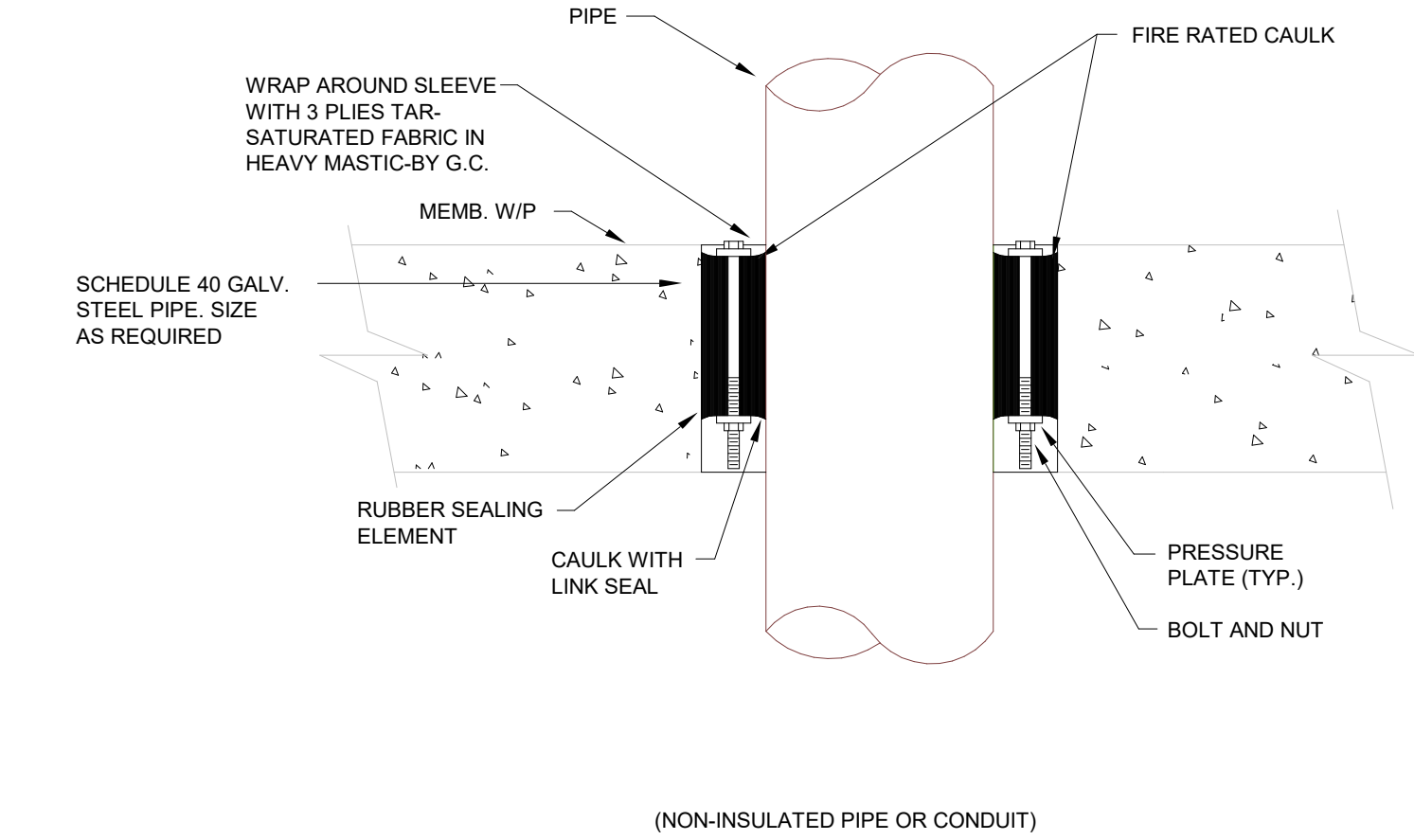
RISER DIAGRAM -  
PLUMBING

P06-01

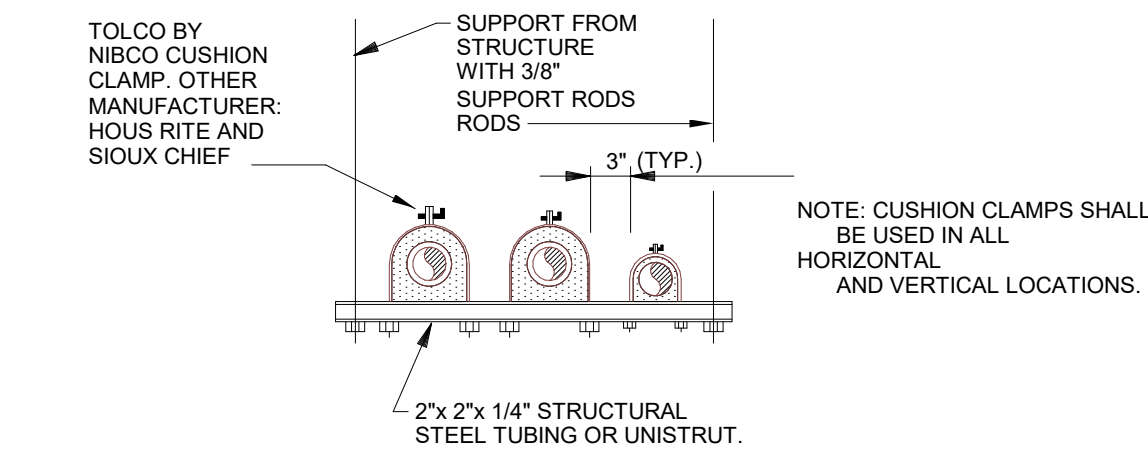




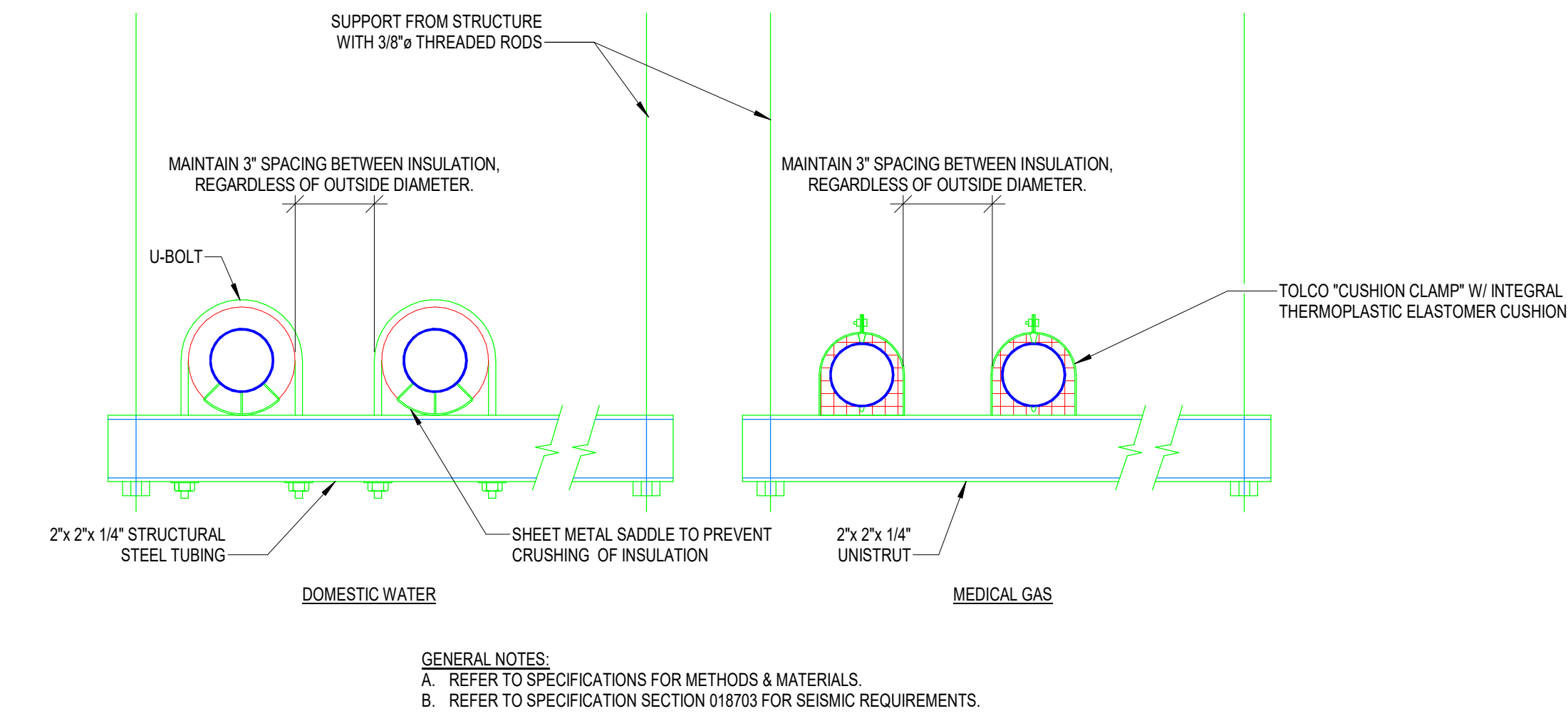
9 WATER HAMMER ARRESTOR (PISTON TYPE) DETAIL  
NTS



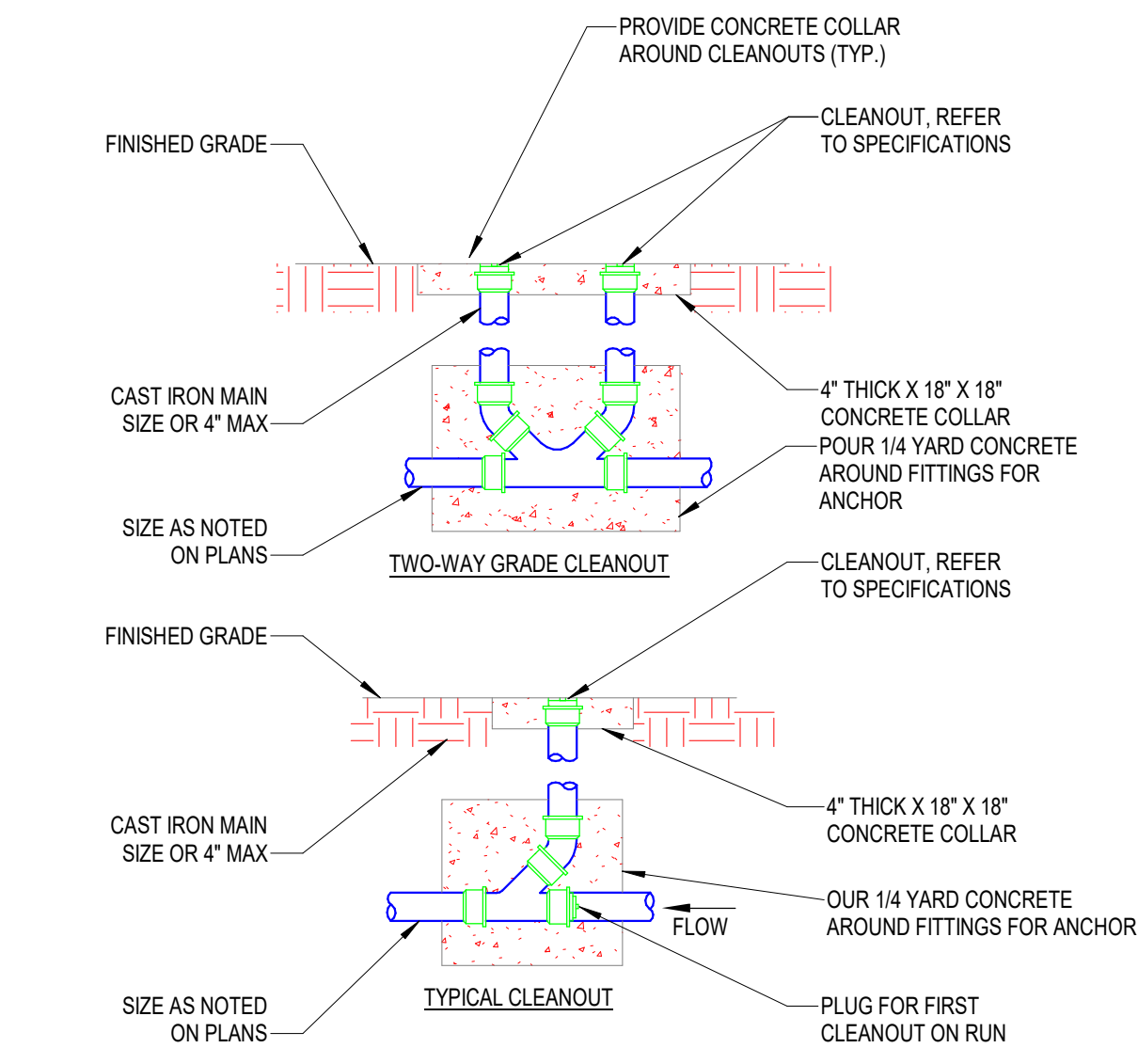
6 PIPE SLEEVE THRU EXISTING FLOOR  
NTS



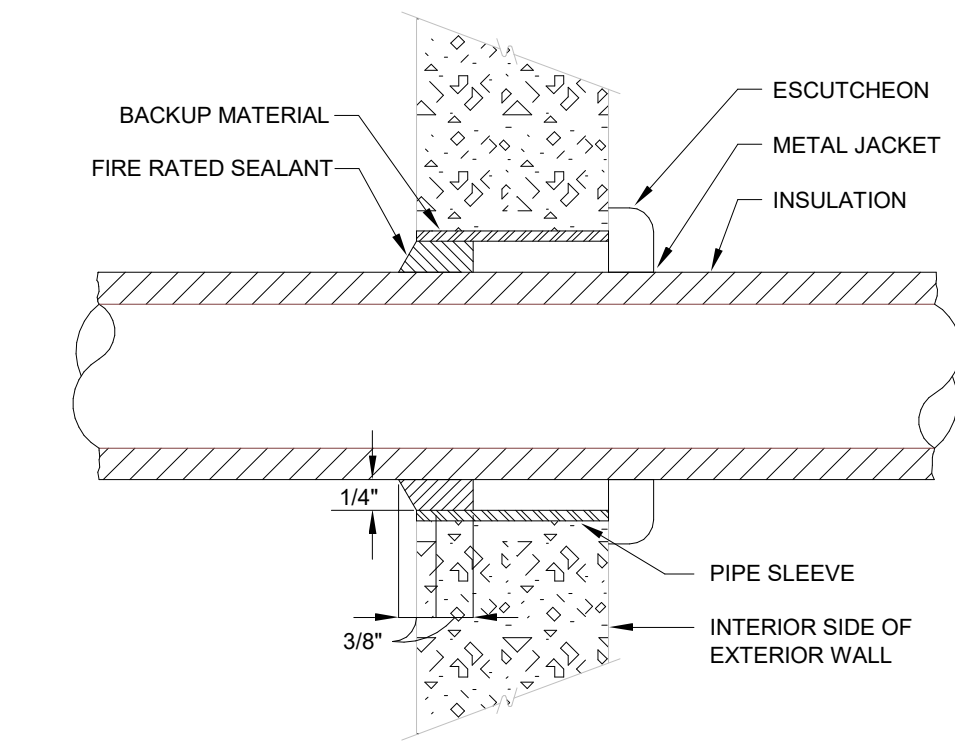
3 MEDICAL GAS PIPING DETAIL  
NTS



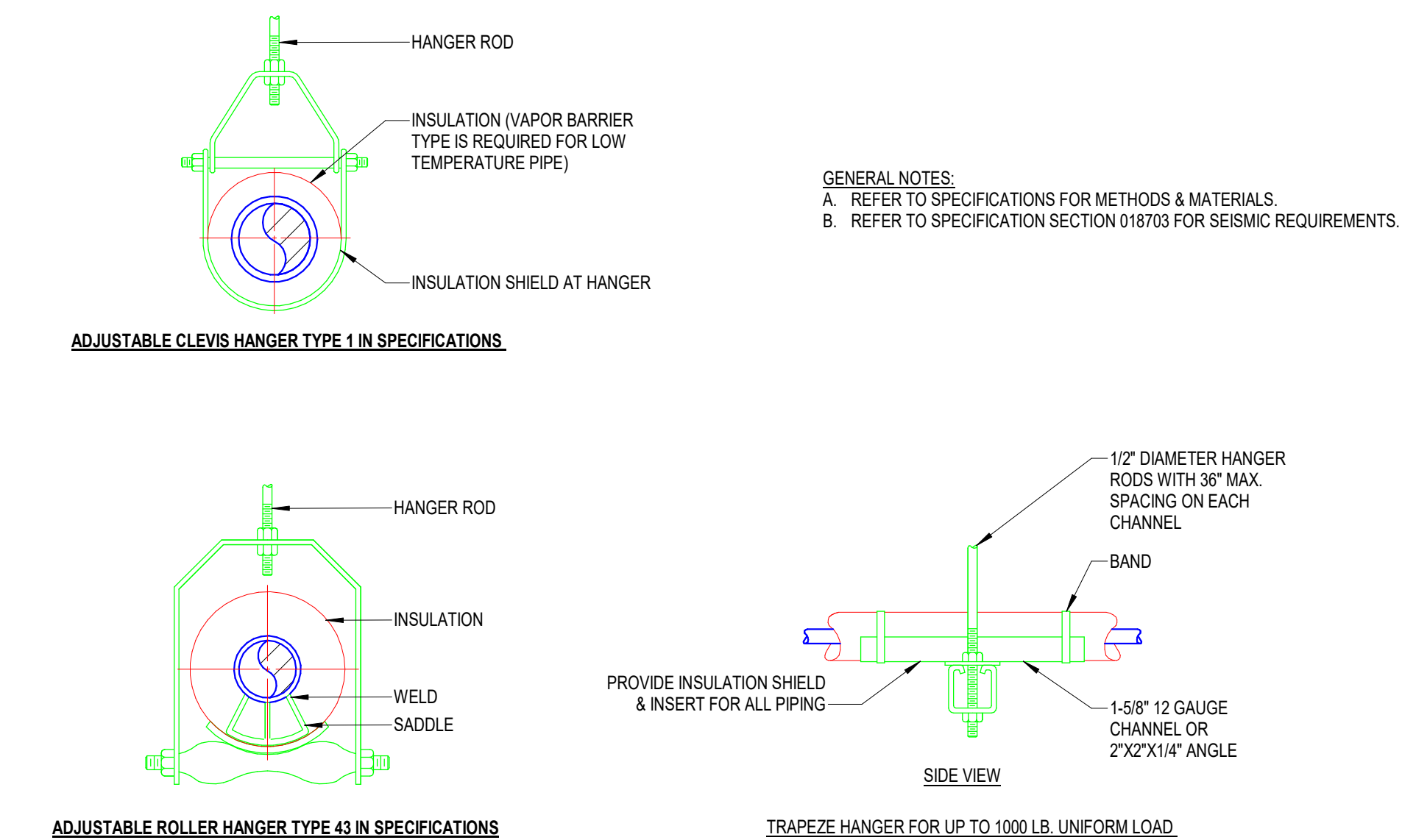
8 TRAPEZE PIPE HANGER DETAILS  
NTS



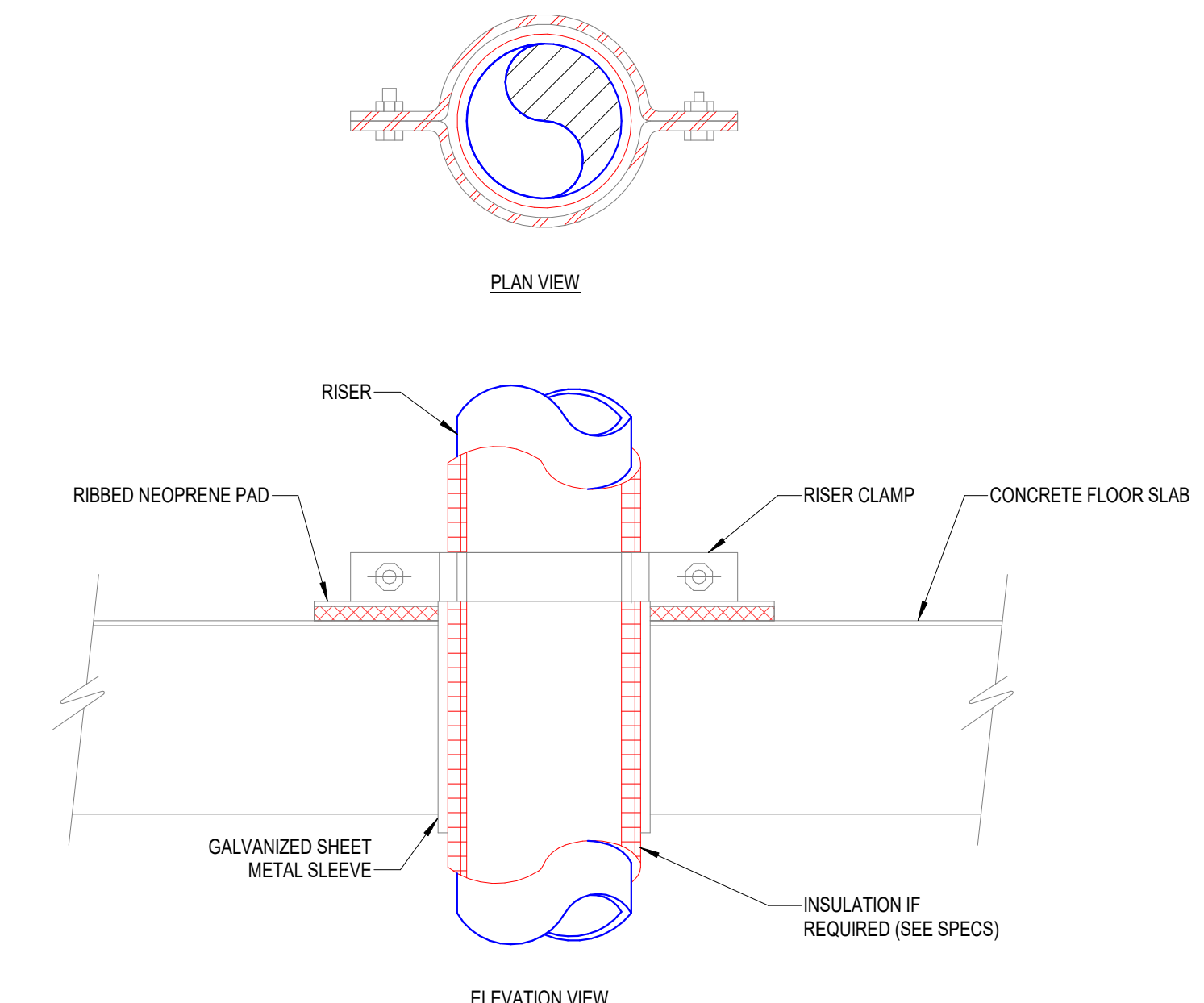
5 CLEANOUT DETAILS  
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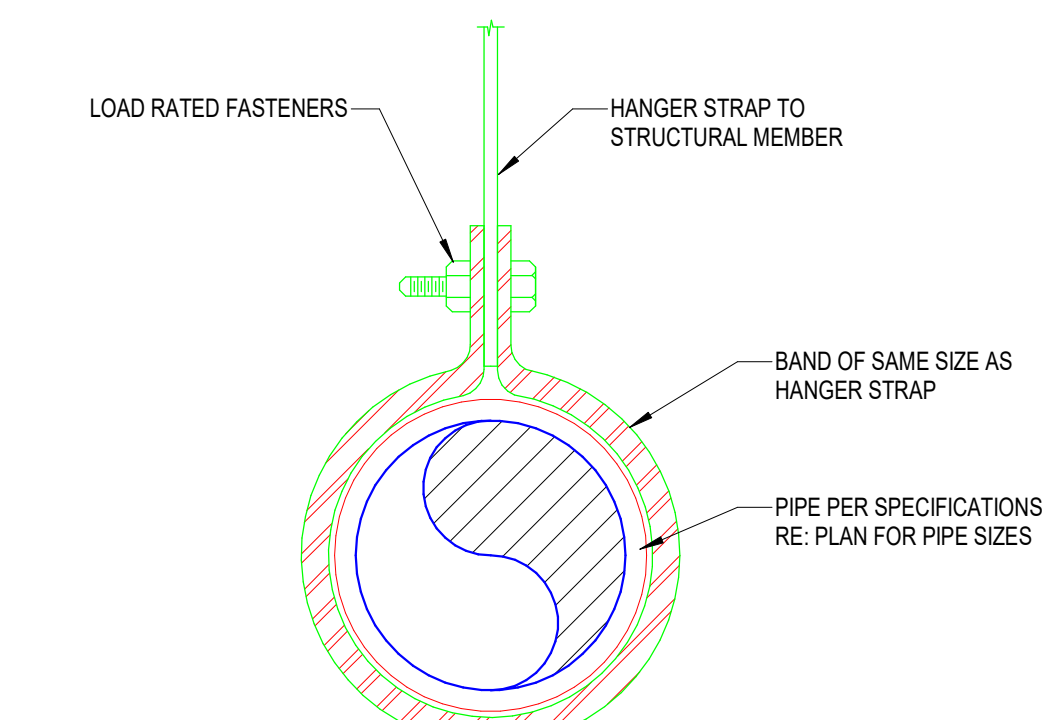
2 INSULATED PIPE THRU WALL - ABOVE GRADE  
NTS



7 PIPE SUPPORT DETAILS  
NTS



4 TYPICAL FLOOR PENETRATION DETAIL  
NTS



1 PIPE HANGER/SUPPORT DETAIL  
NTS

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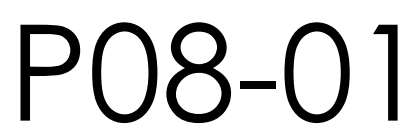
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## DETAILS - PLUMBING



HCA DESIG.	FIXTURE TYPE	SAN/SEWER	VENT	COLD WATER	HOT WATER	DESCRIPTION
P-104	WATER CLOSET ADA COMPLAINT PATIENT	4"	2"	1"	-	WATER CLOSET, ZURN MODEL NO. Z5665-BWL-6X-AM (WHITE) FLUSH VALVE CLOSURE, VITREOUS CHINA, 16-3/4" RIM HEIGHT, 10" ROUGH-IN, 1.6 GALLONS PER FLUSH, ELONGATED BOWL WITH BED PAN LUGS, DIRECT FED SPRING-RETURN ACTION, TUBULAR BRASS BODY, 1-1/2" TOP SPUD. FLUSH VALVE: ZURN MODEL NO. Z6011-AV-BV-IN-VIS-BEDPAN WASH, 1.6 GPF, EXPOSED, QUIT DIAPHRAGM-TYPE, CHROME PLATED, FLUSHMETER VALVE WITH A POLISHED EXTERIOR, CHLORAMINE RESISTANT, DUAL SEAL DIAPHRAGM WITH CLOG RESISTANT, TRIPLE TRIFLED BY-PASS, ADA COMPLIANT WITH A NON-HOLD OPEN AND NO LEAK HANDLE, BEDPAN WASH COMBINATION WITH OFFSET FLUSH FLUID, WALL BRACKET AND SUPPORT ROD, HIGH BACK PRESSURE VACUUM BREAKER, ONE-PIECE BOTTOM HEX COUPLING NUT, ADJUSTABLE TUBULAR BRASS BEND, 1/2" SCREWDRIVER BACK-CHACK ANGLE STOP, ASSEMBLY FOR ADA APPLICATIONS, SPUD COUPLING AND FLANGE FOR 1/2" TOP SPUD. SEAT: PROFLO MODEL NO. PF750C300W-AM, WHITE OPEN SEAT FRONT LEAVE COVER, WITH SELF SUSTAINING CHECK HINGE. CARRIER: ZURN MODEL NO. Z5344 WHITE 2018 40C WALL MOUNT HUNG LAVATORY, VITREOUS CHINA, PATIENT. LAVATORY: ZURN MODEL NO. Z81244-XL-FC1.5 SWING GOOSENECK STOPVAL, WITH 1.5 GPM FLOW CONTROL, IN BASE OF SPOUT, WITH 4" WRISTBLADE HANDLES. STRAINER AND TALPIECE: ZURN MODEL NO. PGF0011-1.14" X 1" CP OFFSET GRID DRAIN AND TALPIECE. P-TAP: PROFLO MODEL NO. PF1P1400 1-1/4" CHROME PLATED CAST BRASS BODY P-TAP, TUBULAR BRASS WALL BEND. STOPS AND RISERS: TWO PFX0AC32C LEAD FREE 1/4 TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 1/2" CP ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS. CARRIER: ZURN MODEL, Z1231 FLOOR MOUNTED CARRIER.
P-304	LAVATORY - WALL HUNG ADA COMPLAINT PATIENT	2"	2"	1/2"	1/2"	LAVATORY: BRILEY MODEL NO. HS-1485-3-TM-T-AL-BRNT-S-CHROME-SAND SOLID SURFACE SINGLE STATION LAVATORY. FAUCET: INTEGRAL, BATTERY POWERED INDEPENDENT SPRAYHEAD, WITH 0.5 GPM FLOW. MIXING VALVE: THERMOSTATIC MIXING VALVE. STRAINER AND TALPIECE: INTEGRAL, STRAINER AND TALPIECE. P-TAP: CHROME PLATED CAST BRASS BODY P-TAP, WITH STAINLESS STEEL TRAP COVER. STOPS AND RISERS: TWO PFX0AC32C LEAD FREE 1/4 TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 1/2" CP ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS.
P-309	LAVATORY - WALL HUNG LIGATURE RESISTANT ADA COMPLAINT	2"	2"	1/2"	1/2"	LAVATORY: BRILEY MODEL NO. HS-1485-3-TM-T-AL-BRNT-S-CHROME-SAND SOLID SURFACE SINGLE STATION LAVATORY. FAUCET: INTEGRAL, BATTERY POWERED INDEPENDENT SPRAYHEAD, WITH 0.5 GPM FLOW. MIXING VALVE: THERMOSTATIC MIXING VALVE. STRAINER AND TALPIECE: INTEGRAL, STRAINER AND TALPIECE. P-TAP: CHROME PLATED CAST BRASS BODY P-TAP, WITH STAINLESS STEEL TRAP COVER. STOPS AND RISERS: TWO PFX0AC32C LEAD FREE 1/4 TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 1/2" CP ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS.
P-402	SINK SINGLE COMPARTMENT ADA COMPLAINT	2"	2"	1/2"	1/2"	SINK: ELKAY MODEL LRAD1915-S3 1-1/2" 304 NICKEL BEARING STAINLESS STEEL, SELF RIMMING, 13" X 9.5-1/2" DEPTH ADA COMPLIANT WITH OFF-CENTER OUTLET TO THE REAR, BOWL, SIZE 16" X 13-1/2", 3-1/2" DRAIN AND SOUND GUARD UNDERCOUNTER. FAUCET: ZURN MODEL NO. Z83184-XL-FC 1.5 8" FIXED CENTERS RIGID OR SWING GOOSENECK STOPVAL, WITH 1.5 GPM FLOW CONTROL, IN BASE OF SPOUT AND WITH 4" WRISTBLADE HANDLES. STRAINER/TALPIECE: PROFLO MODEL NO. PW1VS CHROME PLATED BRASS 4-1/2" WIDE STRAINER WITH PROFLO PF1P1601 1/4" FLANGED TALPIECE. P-TAP: PROFLO MODEL NO. PF1P1601 1-1/2" 1/4 CHROME PLATED CAST BRASS BODY P-TAP, TUBULAR BRASS WALL BEND. STOPS AND RISERS: TWO PFX0AC32C LEAD FREE 1/4 TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 1/2" CP ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS.
P-404	SINK SINGLE COMPARTMENT ADA COMPLAINT	2"	2"	1/2"	1/2"	SINK: ELKAY MODEL LRAD-1919-S5 1-1/2" 304 NICKEL BEARING STAINLESS STEEL, SELF RIMMING, 13" X 9.5-1/2" DEPTH ADA COMPLIANT WITH OFF-CENTER OUTLET TO THE REAR, BOWL, SIZE 16" X 13-1/2", 3-1/2" DRAIN AND SOUND GUARD UNDERCOUNTER. FAUCET: ZURN MODEL NO. Z87870-XL-C, 8" FIXED CENTERS SINGLE HANDLE KITCHEN FAUCET, WITH 2.2 GPM FLOW RATE. STRAINER/TALPIECE: PROFLO MODEL NO. PF1S14P0 BASKET DRAIN WITH 1-1/2" 20 GAUGE TALPIECE. P-TAP: PROFLO MODEL NO. PF1P1400 1-1/2" 1/4 CHROME PLATED CAST BRASS BODY P-TAP, TUBULAR BRASS WALL BEND. STOPS AND RISERS: TWO PFX0AC32C LEAD FREE 1/4 TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 1/2" CP ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS.
P-410	SINK SINGLE COMPARTMENT DECONTAM ROOM ADA RESISTANT	2"	2"	1/2"	1/2"	SINK: ELKAY MODEL DR-1919-10 1-1/2" 304 NICKEL BEARING STAINLESS STEEL, SELF RIMMING, 13" X 9.5-1/2" DEPTH, BOWL, SIZE 16" X 13-1/2", 3-1/2" DRAIN AND SOUND GUARD UNDERCOUNTER. FAUCET: ZURN MODEL NO. Z8591-AV-ADMO-H-FC1.5 8" FIXED CENTERS RIGID OR SWING GOOSENECK STOPVAL, WITH 1.5 GPM FLOW CONTROL, IN BASE OF SPOUT AND WITH 4" WRISTBLADE HANDLES. STRAINER/TALPIECE: ELKAY L1X88 PLAT GRID STRAINER WITH TALPIECE. P-TAP: PEP 156501 W65N 1-1/2" UNIVERSAL ADG WASTE TRAP. STOPS AND RISERS: TWO PFX0AC32C LEAD FREE 1/4 TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 1/2" CP ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS.
P-501	CLINICAL SERVICE SINK	4"	2"	1-1/2"	3/4"	CLINICAL SERVICE SINK: ZURN MODEL Z5410 WALL MOUNTED, VITREOUS CHINA CLINIC SERVICE SINK, VITREOUS CHINA, INTEGRAL FLUSHING RIM, INTEGRAL FLUSHING ARM AND 1-1/2" TOP SPUD, STAINLESS STEEL RIM GUARD, FLUSH VALVE & FAUCET: ZURN MODEL Z6011-AV-HV-FLUSH VALVE (FRONT ACCESS), ZURN MODEL Z3404-2AT-LVLP-PE-FT-YJ, WING WASH, VAC BRK, CHECK STOPS AND SERVICE STOPS. BEDPAN WASH: ZURN MODEL Z55500W-XL-EVBX-HK-SF-42C WALL MOUNTED BEDPAN WASH/COMBINATION WITH FOOT PEDAL MIXING VALVE, LOOSE-KEY STOPS, ELEVATED VACUUM BREAKER, 69" WHITE VINYL REINFORCED HOSE WITH CHROME PLATED BRASS WALL FLANGE, SUPPLY ELL, SPRAY HANDLE AND WOOD. CARRIER: ZURN Z-1217-B HEAVY DUTY CARRIER INSTALLED 30" FROM RIM TO FINISHED FLOOR.
P-503	SCRUB SINK SENIOR OPERATED	2"	2"	1/2"	1/2"	SINK: ZURN MODEL Z5488M VITREOUS CHINA SCRUB SINK, CONCEALED WALL HANGERS AND SUPPORT BRACKETS. FAUCET: ZURN MODEL NO. Z5951-AV-ADMO-H-FC1.5 8" FIXED CENTERS RIGID OR SWING GOOSENECK STOPVAL, WITH 1.5 GPM FLOW CONTROL, IN BASE OF SPOUT, OCCUPANT DETECTION INFRARED CONVERGENCE-TYPE PROXIMITY SENSOR 30 SECOND TIME OUT FEATURE, SPOUT MODEL CHROME PLATED CAST BRASS, IN-FLINE R-FLY, ABOVE DECK MIXER WITH BLADE HANDLE AND 8" COVER PLATE. STRAINER/TALPIECE: ZURN MODEL NO. Z5460-DRAIN-42 CP STRAINER WITH TALPIECE. P-TAP: PROFLO MODEL NO. PF1P1400 CHROME PLATED CAST BRASS BODY P-TAP, TUBULAR BRASS WALL BEND. STOPS AND RISERS: TWO PFX0AC32C LEAD FREE 1/4 TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 1/2" CP ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS. CARRIER: ZURN Z1224-C CARRIER WITH BEARING PLATE ASSEMBLY.
P-608	SHOWER (SOLID SURFACE)	2"	2"	1/2"	1/2"	ENCLOSURE, 36"X50" SURFACE BASE WITH CENTER DRAIN, WALLS, GRAB BAR, SPOT DISH, FOLD UP SEAT FURNISHED BY OTHERS. INPRO E3636X-CDBD 36"X36" LOW CURB SHOWER BASE, CENTER DRAIN, BONE. FAUCET: SYMONS NO. SYM965-RLR-231 PRESSURE BALANCING SHOWER, ADA COMPLIANT, INTERMEDIATE WITH VOLUME CONTROL, INTEGRAL SERVICE STOPS AND LEVER HANDLE. SUPER SHOWER HEAD WITH ARM AND FLANGE, ADA HAND HELD SHOWER, INLINE VACUUM BREAKER, 60" HOSE AND 38" SLIDE BAR, INSTALL FAUCET ASSEMBLY OFFSET AS DIRECTED BY THE ADA RULES. DRAIN: PROFLO PF-140NC CP DRAIN.
P-713	FLOOR DRAIN	AS NOTED ON PLANS	-	-	-	ZURN MODEL ZH-415-4-P-B, FLOOR AND SHOWER DRAIN, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAPE SLOTS AND POLISHED NICKLE BRONZE, LIGHT-DUTY STRAINER, TRAP PRIMER CONNECTION AND SEDIMENT BUCKET. ZURN MODEL ZN-328 NICKEL BRONZE FLOOR.
P-721	FLOOR DRAIN DECON	AS NOTED ON PLANS	-	-	-	ZURN MODEL Z-555-RE-JAR-V, ROUND 24" INCH DRAIN, DURA-COATED CAST IRON BODY WITH NEOLOC BOTTOM OUTLET, SEEPAPE PAN AND COMBINATION MEMBRANE FLUSHING CLAMP AND FRAME FOR MEDIUM-DUTY SLOTTED GRATE, SEDIMENT BUCKET AND TRAP PRIMER CONNECTION.
P-804	ICE MAKER BOX	-	-	-	1/2"	DATNEY MODEL 3914D 20 GAUGE STEEL ICE MAKER BOX WITH 1/4 INCH TALL VALVE AND WATER HAMMER ARRESTOR, LOW LEAD COMPLIANT.
P-817	DECONTAM SHOWER INTERIOR	-	-	-	1/2"	FAUCET: SYMONS NO. SYM965-RLR-231 PRESSURE BALANCING SHOWER VALVE, INTEGRAL SERVICE STOPS AND LEVER HANDLE. HAND HELD SHOWER, INLINE VACUUM BREAKER, 72" HOSE AND ATTACHMENT HOOKS. MIXING VALVE: BRADLEY 519-2000 THERMOSTATIC MIXING VALVE, CHECKSTOPS ON INLETS, ADJUSTABLE SET POINT, COLD WATER BY-PASS, DIAL THERMOSTER.
P-831						





GENERAL NOTES - ALL HVAC SHEETS

- A. ALL MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR MECHANICAL AND PLUMBING CONSTRUCTION.
- B. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, PAY ALL FEES, AND COMPLY WITH ALL NATIONAL, STATE, AND MUNICIPAL LAWS, CODES, AND ORDINANCES RELATING TO BUILDING AND PUBLIC SAFETY.
- C. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED FOR A COMPLETE WORKING AND COORDINATED SYSTEM.
- D. COORDINATE THE EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT WITH THE LOCATIONS OF LIGHT FIXTURES, PIPING, CONDUIT, AND OTHER CONSTRUCTION, TO ALLOW FOR PROPER ACCESS TO SERVICE EQUIPMENT.
- E. COORDINATE THE LOCATION OF DUCTWORK AND PIPING WITH OTHER TRADES AND PROVIDE OFFSETS IN DUCTWORK AND PIPING AS REQUIRED.
- F. IT IS THE INTENT OF THESE DOCUMENTS TO ALLOW ALL CEILING CONSTRUCTION AND HEIGHTS TO BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS. COORDINATE THE LOCATION OF DUCTWORK AND PIPING AND PROVIDE OFFSETS IN DUCTWORK AND PIPING AS REQUIRED TO MEET THIS INTENT.
- G. CONDUIT, PIPING, AND DUCTWORK SHALL BE INDEPENDENTLY SUPPORTED, AND EACH SUPPORT SHALL BE INDEPENDENT OF PARTITION AND CEILING SYSTEM SUPPORTS. WHERE INDEPENDENT SUPPORT IS NOT POSSIBLE AN ENGINEERED SUPPORT SYSTEM SHALL BE UTILIZED.
- H. INSTALL ALL FLOOR MOUNTED EQUIPMENT ON PADS AS SPECIFIED. PAD BY GENERAL CONTRACTOR. COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.
- I. ALL WORK SHALL BE SCHEDULED AND PERFORMED IN STRICT COORDINATION WITH ARCHITECTURAL PHASING PLANS AND WITH HOSPITAL SCHEDULES, OCCUPANCIES, AND WORK.
- J. PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION.
- K. REMOVE ALL EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. TOUCH UP WITH PAINT WHERE REQUIRED.
- L. CONTRACTOR SHALL VISIT JOBSITE AND VERIFY SIZE AND LOCATION OF ALL EXISTING ITEMS AND CONDITIONS.
- M. ALL CONNECTION BETWEEN PIPES OF DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC UNIONS.
- N. CONTRACTOR SHALL COORDINATE ALL WORK CLOSELY WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES.
- O. ALL EXISTING FACILITIES SHALL BE PROTECTED DURING THE CONSTRUCTION ACTIVITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE AND STORE ITEMS WHICH ARE SUBJECT TO DAMAGE.
- P. ARCHITECT SHALL HAVE FINAL APPROVAL OF ALL GRILLE, DIFFUSER, AND THERMOSTAT LOCATIONS.
- Q. COORDINATE ALL AIR DEVICE LOCATIONS AND MOUNTING FRAME STYLES WITH LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS.
- R. COORDINATE ALL WALL MOUNTED DEVICE LOCATIONS WITH ARCHITECTURAL INTERIOR ELEVATIONS.
- S. DEMOLITION OF EACH PHASE SHALL OCCUR AS PART OF THE WORK FOR THAT PHASE. REMOVE ONLY THE WORK THAT SERVES THE AREA OF DEMOLITION.
- T. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO PREVENT DISRUPTING ADJACENT AREAS OF THE PHASE IN WHICH WORK IS BEING PERFORMED.
- U. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK, ETC. AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED.
- V. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE COORDINATED WITH THE HOSPITAL REPRESENTATIVE.
- W. DUCT SIZES ARE NET FREE AREA.
- X. PROVIDE ROUND DUCTS TO ALL AIR DEVICES UNLESS NOTED OTHERWISE. DUCT SIZE SHALL MATCH AIR DEVICE NECK SIZE OR THE TABLE IN AIR DEVICE SCHEDULE, WHICHEVER IS LARGER. FLEXIBLE DUCTS SHALL BE SIZED SIMILARLY. DO NOT USE FLEXIBLE DUCTS ABOVE NON-LATIN CEILINGS.
- Y. TERMINAL BOX INLET DUCTS: SIZE THE RUNOUT DUCT AND ITS TAP AT MAIN TRUCK PER VAV BOX SCHEDULE UNLESS NOTED OTHERWISE ON PLANS.
- Z. TERMINAL BOX OUTLET DUCTS: SIZE THE LOW PRESSURE OUTLET DUCT TO BE SIZE OF TERMINAL BOX DISCHARGE UNLESS NOTED OTHERWISE ON PLANS.

- AA. MATCH THE SIZE INDICATED ON DRAWINGS. OUTLET PLENUM SIZES THAT ARE NOT INDICATED ON DRAWINGS SHALL MATCH THE TABLE IN THE APPLICABLE TERMINAL UNIT SCHEDULE.
- AB. PROVIDE FRAMED 0.5" BY 0.5" BIRD SCREEN (GALVANIZED STEEL ASSEMBLY) AT ALL DUCTS TERMINATING WITHOUT AN AIR DEVICE, AND AT UNDUCTED AIR FLOW OPENINGS AT EQUIPMENT. PROVIDE 1.5" BY 0.5" BIRD SCREEN (316 STAINLESS STEEL) AT ALL INDOOR FACE OF LOUVERS AND UNDUCTED AIR FLOW OPENINGS TO EQUIPMENT HANDLING OUTSIDE AIR.
- AC. PROVIDE MANUAL VOLUME DAMPER IN EACH AIR DEVICE RUNOUT DUCT AS FAR FROM AIR DEVICE AS POSSIBLE.
- AD. INSTALL SPACE THERMOSTAT ADJACENT TO LATCH SIDE OF DOOR IN SPACE INDICATED.
- AE. INDICATED SPACE THERMOSTAT LOCATIONS ARE APPROXIMATE. AVOID HEAT PRODUCING EQUIPMENT.
- AF. FINAL SPACE THERMOSTAT/SENSOR LOCATIONS SHALL BE AS DIRECTED BY THE ARCHITECT.
- AG. INSTALL HUMIDISTATS IN SIMILAR FASHION.
- AH. INSTALL TURNING VANES IN ALL 90 DEGREE SQUARE ELLS IN SUPPLY, RETURN, AND EXHAUST DUCTS. (NONE ALLOWED IN COMBUSTION AIR DUCTS).
- AI. LOCATE ISOLATION VALVES FOR EQUIPMENT AS CLOSE TO THE MAIN AS POSSIBLE.
- AJ. PROVIDE CONDENSATE DRAIN PIPING FROM ALL COOLING COILS TO DRAIN.
- AK. MULTI-BLADE DAMPERS OF ANY TYPE INSTALLED WITHIN 36" OF AN ELL OR OTHER FITTING SHALL BE INSTALLED WITH THE DAMPER BLADE SHAFTS PARALLEL TO THE AIRSTREAM FLOW DIRECTION UPSTREAM OF THE FITTING.
- AL. COORDINATE LOCATION OF ALL DISCONNECTS, CONTROL PANELS AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES OF 42" DEEP AND 30" WIDE IN FRONT OF EQUIPMENT.
- AM. ALL FIRE AND COMBINATION FIRE/SMOKE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION DETAILS AND BE U.L. TESTED AND LISTED.
- AN. FULLY INTEGRATE ALL NEW CONTROLS WITH ALL EXISTING / MODIFIED EQUIPMENT BACK TO NEW BAS AND ENGINEERS WORKSTATION IN RENOVATION PROJECT.
- AO. PROVIDE FILTER GAUGE ACROSS EACH FILTER BANK SERVING CENTRAL AIR SYSTEMS. THE GAUGE SHALL BE RED LINED OR A FILTER ALARM LIGHT INSTALLED TO SIGNAL WITH THE RECOMMENDED MAXIMUM STATIC PRESSURE DROP HAS BEEN REACHED. USE MAXIMUM STATIC PRESSURE AS RECOMMENDED BY FILTER MANUFACTURER.
- AP. PIPE CONNECTIONS LESS THAN 2-1/2" TO HEATING COILS, COOLING COILS, HUMIDIFIERS AND SIMILAR EQUIPMENT SHALL HAVE FLEXIBLE CONNECTORS OR THREE 90-DEGREE OFFSETS IN CLOSE PROXIMITY OF THE CONNECTION.
- AQ. CONTRACTOR SHALL RE-INSPECT RECOMMENDED CONNECTION POINTS AFTER DEMOLITION PHASE TO ENSURE TIE-IN POINTS ARE ADEQUATE FOR RENOVATION SYSTEMS.
- AR. CONTRACTOR SHALL TEST AND BALANCE ALL EXISTING SYSTEMS THAT ARE TO BE CONNECTED TO FOR THE RENOVATION PHASE PRIOR TO INSTALLING NEW WORK AND DOCUMENT VALUES. CONTRACTORS SHALL RE-TEST AND BALANCE EXISTING SYSTEMS AFTER CONNECTION TO ENSURE ALL DOWN STREAM SYSTEMS ARE PROVIDED THE SAME PERFORMANCE AFTER CONSTRUCTION.
- AS. ALL DISCONNECTS DOWN STREAM OF VFDs SHALL BE PROVIDED WITH AUXILIARY CONTACTS TO SHUT DOWN UPSTREAM VFD WHEN SWITCH IS OPEN.

GENERAL PIPING NOTES

- A. REFER TO THE ARCHITECTURAL PHASING PLAN FOR THE AREAS SHOWN ON THIS SET OF PLANS. WORK SHALL BE SCHEDULED AND PERFORMED IN SEQUENCE WITH THE PHASING PLAN.
- B. DEMOLITION OF EACH PHASE SHALL OCCUR AS PART OF THE WORK FOR THAT PHASE. REMOVE ONLY THE WORK THAT SERVES THE AREA OF DEMOLITION.
- C. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO PREVENT DISRUPTING ADJACENT AREAS OF THE PHASE IN WHICH WORK IS BEING PERFORMED.
- D. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK AND/OR PIPING AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED.
- E. ALL WORK SHALL BE PERFORMED IN STRICT COORDINATION WITH HOSPITAL SCHEDULES, OCCUPANCIES, AND WORK. CONTRACTOR SHALL COORDINATE WITH HOSPITAL REPRESENTATIVE.
- F. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE SCHEDULED WITH THE HOSPITAL REPRESENTATIVE IN A TIMELY MANNER AS TO MINIMIZE THE DISRUPTION TO THE FACILITY.
- G. ARCHITECT SHALL HAVE FINAL APPROVAL OF ALL THERMOSTAT LOCATIONS.
- H. G.C. TO PROVIDE ACCESS DOORS IF REQUIRED FOR ACCESS TO VAV'S AND ANY VALVES THAT ARE NOT ACCESSIBLE. VERIFY SIZE AND LOCATIONS WITH MECHANICAL CONTRACTOR.
- I. CONTRACTOR SHALL RE-INSPECT RECOMMENDED CONNECTION POINTS AFTER DEMOLITION PHASE TO ENSURE TIE-IN POINTS ARE ADEQUATE FOR RENOVATION SYSTEMS.
- J. CONTRACTOR SHALL TEST AND BALANCE ALL EXISTING SYSTEMS THAT ARE TO BE CONNECTED TO FOR THE RENOVATION PHASE PRIOR TO INSTALLING NEW WORK AND DOCUMENT VALUES. CONTRACTORS SHALL RE-TEST AND BALANCE EXISTING SYSTEMS AFTER CONNECTION TO ENSURE ALL DOWN STREAM SYSTEMS ARE PROVIDED THE SAME PERFORMANCE AFTER CONSTRUCTION.
- K. CONTRACTOR SHALL COORDINATE ALL SLAB PENETRATIONS WITH EXISTING WAFFLE SLAB RIDGES AND BEAMS.

GENERAL DEMOLITION NOTES

- A. ALL CAPPED DUCT TAPS AND CONNECTING DUCTS THAT ARE NOT BEING USED ARE TO BE REMOVED BACK TO THE MAIN DUCT AND PATCHED AS PER ITEM 8 BELOW.
- B. PATCH OPENINGS IN EXISTING DUCTWORK THAT IS TO REMAIN INCLUDING OPENINGS. WHERE TAPS OR DUCTWORK ARE TO BE REMOVED, THE FOLLOWING SHALL OCCUR:
- OPENINGS IN THE MAIN DUCTS ARE TO BE COVERED WITH A SHEET METAL PATCH. THE PATCH IS TO BE LARGER THAN THE EXISTING OPENING AND IS TO BE SECURED WITH SHEET METAL SCREWS FOUR INCHES ON CENTERS.
- A LIBERAL QUANTITY OF FIRE RESISTANT ADHESIVE IS TO BE APPLIED TO THE EDGES OF THE METAL PATCH AND THE ASSEMBLY SCREWED IN PLACE.
- C. REFER TO THE ARCHITECTURAL PHASING PLAN FOR THE AREAS SHOWN ON THIS PLAN. WORK SHALL BE SCHEDULED AND PERFORMED IN SEQUENCE WITH THE PHASING PLAN.
- D. DEMOLITION OF EACH PHASE SHALL OCCUR AS PART OF THE WORK FOR THAT PHASE. REMOVE ONLY THE WORK THAT SERVES THE AREA OF DEMOLITION.
- E. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO PREVENT DISRUPTING ADJACENT AREAS OF THE PHASE IN WHICH WORK IS BEING PERFORMED.
- F. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK AND/OR PIPING AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED.
- G. ALL WORK SHALL BE PERFORMED IN STRICT COORDINATION WITH HOSPITAL SCHEDULES, OCCUPANCIES AND WORK. CONTRACTOR SHALL COORDINATE WITH HOSPITAL REPRESENTATIVE.
- H. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE SCHEDULED WITH THE HOSPITAL REPRESENTATIVE.
- I. FOR ALL MINOR RENOVATION AREAS, THE CONTRACTOR IS TO UNDERTAKE A FULL PRE-TAB OF ALL GRILLES AND DIFFUSERS WITHIN THE AREAS PRIOR TO DEMOLITION. THE REPORT SHOULD BE SENT TO THE EOR. UPON COMPLETION OF THE GRILLED/DIFFUSER REPLACEMENTS IN THESE AREAS, THE CONTRACTOR IS REQUIRED TO RE-BALANCE THE SYSTEM BACK TO THE VALUES DOCUMENTED WITHIN THE PRE-TAB REPORT. PLEASE NOTE THE PRE-TAB IS TO BE PERFORMED PRIOR TO ANY WORK ASSOCIATED WITH THE RESPECTIVE SYSTEMS BEING UNDERTAKEN.

FIRE ALARM SEQUENCE OF OPERATION

UPON FIRE ALARM ALL HANDLING UNITS AND ASSOCIATED EXHAUST FANS SHALL SHUT DOWN BASED ON THEIR RESPECTIVE SMOKE COMPARTMENTS. ALL ISOLATION EXHAUST FANS TO REMAIN IN OPERATION. ALL ASSOCIATED SMOKE AND COMBINATION FIRE/SMOKE DAMPERS SERVING SYSTEMS THAT SHUT OFF UPON FIRE ALARM SHALL CLOSE DURING FIRE ALARM.

MECHANICAL/ELECTRICAL SYSTEM COORDINATION SCHEDULE

SYSTEM	FURNISHED BY	INSTALLED BY	POWER WIRING BY	CONTROL OR SUPERVISION WIRING BY
LIFE SAFETY SYSTEM	XXXXXX	XXXXXX	XX	XXXXXX
SMOKE DAMPER/ACTUATOR	DIV 23	DIV 23	DIV 26	DIV 28
FIRE/SMOKE DAMPER/ACTUATOR	DIV 23	DIV 23	DIV 26	DIV 28
DUCT SMOKE DETECTOR	DIV 28	DIV 23	XX	DIV 28
NURSE CALL/FIRE ALARM INTERFACE	DIV 28	DIV 28	XX	DIV 28
FIRE SPRINKLER SYSTEM	DIV 21	DIV 21	DIV 26	DIV 28
WATERFLOW SWITCHES	DIV 21	DIV 21	XX	DIV 28
TAMPER SWITCHES	DIV 21	DIV 21	XX	DIV 28
SUPERVISORY CONTACTS	DIV 21	DIV 21	XX	DIV 28
MEDICAL GAS ALARM	DIV 22	DIV 22	DIV 26	DIV 22
MOTOR STARTERS (INTEGRAL TO EQUIP.)	DIV 22/23	XXXXXX	DIV 26	DIV 23
MOTOR STARTERS (NON-INTEGRAL TO EQUIP.)	DIV 26	DIV 26	DIV 26	DIV 23
COMBINATION MOTOR STARTER/DISCONNECT (INTEGRAL TO EQUIP.)	DIV 22/23	XXXXXX	DIV 26	DIV 23
COMBINATION MOTOR STARTER/DISCONNECT (NON-INTEGRAL TO EQUIP.)	DIV 26	DIV 26	DIV 26	DIV 23
VARIABLE FREQUENCY DRIVES (VFD'S)	DIV 26	DIV 26	DIV 26	DIV 23
DISCONNECT SWITCHES (NON-INTEGRAL TO EQUIP.)	DIV 26	DIV 26	DIV 26	XXXXXX

NOTE 1: CONTROL OR SUPERVISORY WIRING FOR DISCONNECT SWITCHES WITH AUXILIARY CONTACTS FOR USE WITH VFD'S BY DIV. 23.  
NOTE 2: DIVISION OF SCOPE BETWEEN TRADES IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS TABLE IS PROVIDED AS A GUIDE TO THE DOCUMENT PREPARATION AND IN NO WAY INDICATES CONTRACTOR MEANS AND METHODS.

DESIGN CRITERIA

LOCATION: CITY/STATE	LEE'S SUMMIT, MISSOURI
APPLICABLE CODES:	
BUILDING	2018 IBC
MECHANICAL	2018 IMC
PLUMBING	2018 IPC
ELECTRICAL	2017 NEC
FIRE	2018 IFC
FACILITY GUIDELINES	2014 FGI
INSTITUTE	
LATITUDE: DEG. N. LAT.	38.9
LONGITUDE: DEG. W. LONG.	94.3
ELEVATION: FT. ABOVE SEA LEVEL	997
ASHRAE SUMMER DESIGN CONDITIONS:	
0.4% DRY BULB	89.9 °F
0.4% WET BULB	79.5 °F
ASHRAE WINTER DESIGN CONDITIONS:	
99.6% WET BULB	4.5 °F
HCA DESIGN CRITERIA	-5.5 °F
BUILDING SPACE DESIGN TEMPERATURES	
SUMMER DB	72 °F
WINTER DB	68 °F
SUPPLY AIR TEMPERATURE: DEG. F. DRY BULB	52 °F

MECHANICAL ABBREVIATIONS

AC	ABOVE CEILING	GEF	GENERAL EXHAUST FAN
AFF	ABOVE FINISHED FLOOR	HW	HEATING HOT WATER
AHJ	AIR HANDLING UNIT	IBT	INVERTED BUCKET TRAP
AI	ANALOG INPUT	IN HG	INCHES MERCURY (PRESSURE)
AO	ANALOG OUTPUT	IN WC	INCHES WATER COLUMN (PRESSURE)
BF	BELOW FLOOR, BLIND FLANGE	LE	LAUNDRY EQUIPMENT
BFC	BELOW FINISHED CEILING	MA	MIXED AIR
BG	BELOW GRADE	MVD	MOTORIZED VOLUME DAMPER
BY	BUTTERFLY VALVE	N	NEW
CHW	CHILLED WATER	OA	OUTSIDE AIR
CRAC	COMPUTER ROOM AC UNIT	OBD	OPPOSED BLADE DAMPER
CRU	CONDENSATE RETURN UNIT	PRV	PRESSURE RELIEF VALVE
CU	CONDENSING UNIT	R	RELOCATED
DI	DIGITAL INPUT	RA	RETURN AIR
DO	DIGITAL OUTPUT	RCA	RE-CIRCULATED (RETURN) AIR
DS	DISCONNECT SWITCH	RLA	RELIEF AIR
E	EXISTING	SA	SUPPLY AIR
EDH	ELECTRIC DUCT HEATER	SF	SUPPLY FAN
EUH	ELECTRIC UNIT HEATER	SV	SAFETY VALVE
EA	EXHAUST AIR	TAV	THERMOSTATIC AIR VENT (STEAM SYSTEM)
EF	EXHAUST FAN	UH	UNIT HEATER
FCU	FAN COIL UNIT	UNO	UNLESS NOTED OTHERWISE
FMB	FILTER MIXING BOX	VAV	VARIABLE AIR VOLUME
FFB	FAN POWERED BOX	VO	VOLUME DAMPER
FPI	FINS PER INCH	WH	WATER HEATER
GC	GENERAL CONTRACTOR	WHP	WATER-SOURCE HEAT PUMP

CONTROL DIAGRAM SYMBOLS

SYMBOLS	DESCRIPTION
(AI)	ANALOG INPUT
(AO)	ANALOG OUTPUT
(DI)	DIGITAL INPUT
(DO)	DIGITAL OUTPUT
TT-X	TEMPERATURE TRANSMITTER #X
HT-X	RELATIVE HUMIDITY TRANSMITTER #X
V-X	CONTROL VALVE #X
SPT-X	STATIC PRESSURE TRANSMITTER #X
ESC-X	END SWITCH, NORMALLY CLOSED #X
ESD-X	END SWITCH, NORMALLY OPEN #X
TS-X	TEMPERATURE SENSOR #X
SD-X	SMOKE DETECTOR #X
OL	OVERLOAD RELAY #X
DPS-X	DIFFERENTIAL PRESSURE SENSOR #X
CSR-X	CURRENT SENSING RELAY #X
FM-X	FLOW METER #X
FS-X	FLOW SWITCH #X
EAS-X	EMERGENCY AIR HANDLER SHUT DOWN BUTTON #X

MECHANICAL SYMBOLS

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

SYMBOL	DESCRIPTION
	NEW EQUIPMENT DESIGNATION (TOP - EQUIP. ABBREV., BOTTOM - MARK)
	NEW DIFFUSER DESIGNATION (TOP - SCHEDULE DESIGN., BOTTOM - CFM)
	NEW EQUIPMENT
	EXISTING EQUIPMENT
	NEW DUCT
	EXISTING DUCT
	EXISTING DUCT TO BE REMOVED OR RELOCATED
	NEW SUPPLY DIFFUSER
	EXISTING SUPPLY DIFFUSER
	EXISTING SUPPLY DIFFUSER TO BE REMOVED OR RELOCATED
	NEW R/A GRILLE
	EXISTING R/A GRILLE
	EXISTING R/A TO BE REMOVED OR RELOCATED
	NEW EXHAUST GRILLE
	EXISTING EXHAUST GRILLE
	EXISTING EXHAUST GRILLE TO BE REMOVED OR RELOCATED
	NEW SLOT DIFFUSER
	FLEXIBLE DUCT
	EXISTING SLOT DIFFUSER
	EXISTING SLOT DIFFUSER TO BE REMOVED OR RELOCATED
	THERMOSTAT W/ BACKBOX AND CONDUIT TO ABOVE CEILING
	EXISTING THERMOSTAT TO BE REMOVED OR RELOCATED
	HUMIDITY INDICATING DEVICE
	45 DEGREE PRESSURE TAP W/ VOLUME DAMPER
	CONICAL TAP W/ VOLUME DAMPER
	CONICAL TAP W/wo VOLUME DAMPER
	MANUAL DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	FIRE/SMOKE DAMPER
	MOTORIZED DAMPER
	BAROMETRIC DAMPER
	CHILLED WATER SUPPLY PIPE
	CHILLED WATER RETURN PIPE
	CONDENSER WATER SUPPLY PIPE
	CONDENSER WATER RETURN PIPE
	REFRIGERANT LIQUID PIPE
	REFRIGERANT GAS PIPE
	HEATING WATER SUPPLY
	HEATING WATER RETURN
	HIGH PRESSURE STEAM
	HIGH PRESSURE CONDENSATE RETURN
	LOW PRESSURE STEAM
	LOW PRESSURE CONDENSATE RETURN
	PUMPED CONDENSATE RETURN
	DIRECTION OF SLOPE
	DIRECTION OF FLOW
	EXPANSION LOOP
	GATE VALVE
	BUTTERFLY VALVE
	GLOBE VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	BALANCING VALVE
	AUTOMATIC 2-WAY CONTROL VALVE
	AUTOMATIC 3-WAY CONTROL VALVE
	PLUG VALVE/BALANCING COCK
	SOLENOID VALVE
	CHECK VALVE
	VALVE VERTICAL
	UNION
	VACUUM BREAKER
	PETE'S PLUG
	GAUGE COCK
	THERMOMETER
	THERMOMETER WELL
	STRAINER W/ BLOW-OFF VALVE
	F&T STEAM TRAP
	STEAM BUCKET TRAP
	CONNECT TO EXISTING
	ELECTRIC PNEUMATIC SWITCH
	POINT OF DEMOLITION



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04/18/2025  
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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:  
0972400011

AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 04/18/25  
SCALE: N.T.S.  
DRAWN: HO  
REVIEWED: JD  
JOB NUMBER: U50040241.3707

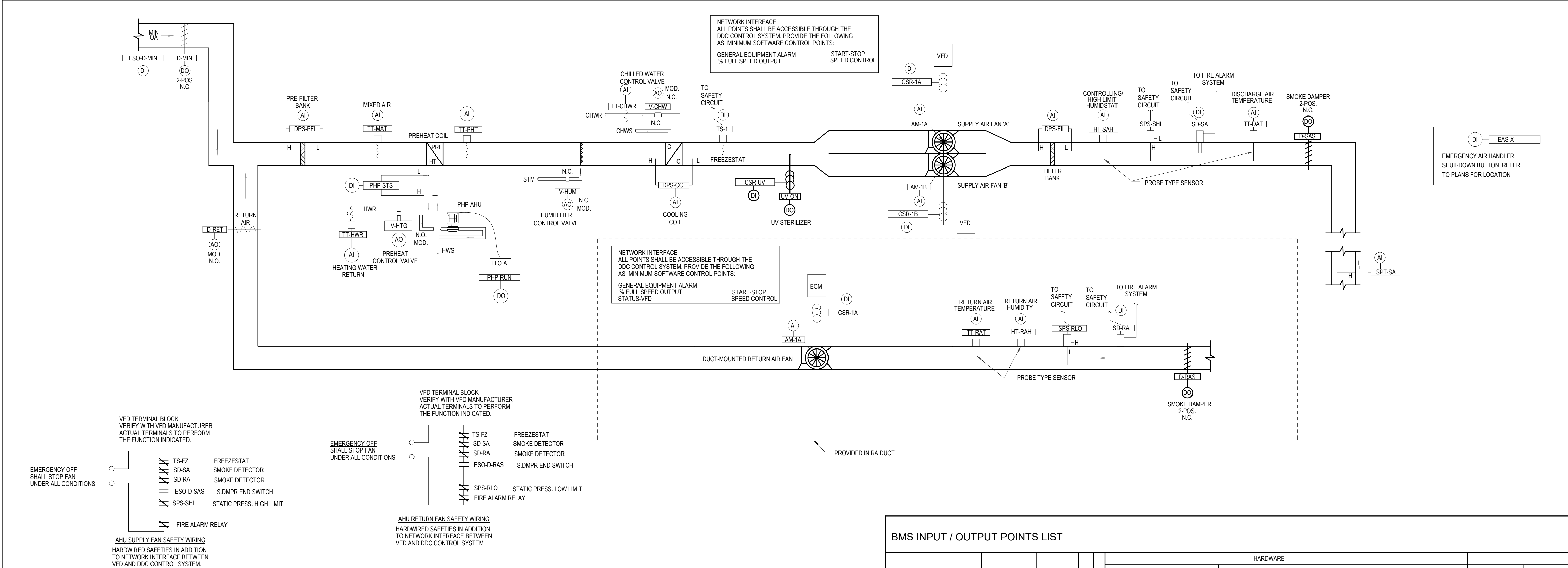
GENERAL INFORMATION -  
MECHANICAL

M00-00









**SUPPLY AIR AND RETURN AIR FAN**  
SUPPLY AIR AND RETURN AIR FANS SHALL BE ENERGIZED/DE-ENERGIZED FROM THE VFD IN HAND POSITION OR THE DDC SYSTEM WHEN IN AUTO MODE. THE DDC CONTROL SYSTEM SHALL SENSE WHEN THE FAN IS IN HAND POSITION BY THE FAN STATUS VERIFICATION AND INITIATE THE AHU CONTROL SEQUENCE.

IN AUTO MODE THE TWO-POSITION MINIMUM OUTSIDE AIR DAMPER (D-MIN) SHALL OPEN. ONCE THE DAMPER IS OPEN, THE SUPPLY FAN SHALL START. THE DDC SYSTEM SHALL SIGNAL THE ASSOCIATED RETURN AND EXHAUST FANS TO START. IF FAN STARTED IN HAND THE TWO POSITION MINIMUM OUTSIDE AIR DAMPER SHALL OPEN IMMEDIATELY UPON SENSING FAN STATUS AS ON.

- FANS SHALL SHUT DOWN FROM A SIGNAL FROM:
- THE FIRE ALARM PANEL THRU THE FIA RELAY.
  - THE SUPPLY AIR SMOKE DETECTOR(S) (SD-SA)
  - THE RETURN AIR SMOKE DETECTOR(S) (SD-RA)
  - FREEZE STAT. (TS-FZ)
  - THE HIGH/LOW LIMIT STATIC PRESSURE SWITCHES (SPS-SH & SPS-RLO)
  - THE PREHEAT LOW LIMIT (TT-PHT)
- WHEN THE SUPPLY FAN SHUTS DOWN THE FOLLOWING SHALL OCCUR:
- THE MINIMUM OUTSIDE AIR DAMPER (D-MIN) SHALL CLOSE.
  - THE RETURN DAMPER (D-RET) SHALL OPEN
  - THE CHILLED WATER VALVE (V-CHW) SHALL CLOSE
  - THE RETURN FAN AND THE ASSOCIATED EXHAUST FANS SHALL SHUTDOWN.

- WHEN THE SUPPLY FAN SHUTS DOWN THE FOLLOWING SHALL OCCUR:
- THE MINIMUM OUTSIDE AIR DAMPER (D-MIN) SHALL CLOSE.
  - THE RETURN DAMPER (D-RET) SHALL OPEN
  - THE CHILLED WATER VALVE (V-CHW) SHALL CLOSE
  - THE RETURN FAN AND THE ASSOCIATED EXHAUST FANS SHALL SHUTDOWN.

**SUPPLY FAN SPEED CONTROL**  
THE SUPPLY FANS VARIABLE FREQUENCY DRIVE (VFD) SHALL BE CONTROLLED BY A DUCT MOUNTED DIFFERENTIAL STATIC PRESSURE TRANSMITTER (SPT-SA) MODULATING THE VFD TO MAINTAIN A SUPPLY DUCT STATIC PRESSURE SETPOINT (AT THE LOWEST TO BE VERIFIED BY THE TAB CONTRACTOR). FOR MULTIPLE STATIC PRESSURE TRANSMITTERS, THE DDC SYSTEM SHALL PROVIDE A SEPARATE SET POINT FOR EACH STATIC PRESSURE TRANSMITTER, AND SELECT THE STATIC PRESSURE TRANSMITTER THAT IS FARTHEST BELOW ITS SET POINT TO CONTROL THE SPEED OF THE VFD. THE VFD SHALL RUN AT FULL SPEED TO THE DDC SYSTEM BY THE NETWORK INTERFACE.

ON A FALL IN DIFFERENTIAL PRESSURE SENSED BY SPT-SA, SPT-SA SHALL, THROUGH THE DDC SYSTEM, SPEED UP THE SUPPLY FANS VFD TO MAINTAIN SPT-SA SETPOINT. ON A RISE IN DIFFERENTIAL PRESSURE SENSED BY SPT-SA, SPT-SA SHALL, THROUGH THE DDC SYSTEM, SLOW DOWN THE SUPPLY FANS VFD TO MAINTAIN SPT-SA SETPOINT. SPT-SA SHALL ALARM THE DDC SYSTEM IF ITS MEASURED PRESSURE IS EITHER TOO HIGH OR TOO LOW.

SPS-SH SHALL SHUTDOWN THE FANS WHENEVER IT SENSES A HIGH STATIC PRESSURE, ALARM THE DDC SYSTEM AND REQUIRE A LOCAL MANUAL RESET TO RESTART THE FAN. SPS-RLO SHALL SHUTDOWN THE FANS WHENEVER IT SENSES A LOW STATIC PRESSURE AND ALARM THE DDC SYSTEM AND REQUIRE A LOCAL MANUAL RESET TO RESTART THE FAN.

**VOLUMETRIC TRACKING**  
THE RETURN AIR FAN VFD SHALL BE CONTROLLED FROM AN OUTSIDE AIR QUANTITY SOFTWARE SETPOINT (SCHEDULED MINIMUM OUTSIDE AIR QUANTITY, ADJUSTABLE) USING AIRFLOW MEASURING DEVICES AND TRANSMITTERS AM-SA AND AM-RA INSTALLED AT THE INLET OF THE SUPPLY AND RETURN FANS. AM-SA SHALL MEASURE THE TOTAL AIRFLOW OF THE SUPPLY FAN AND AM-RA SHALL MEASURE THE TOTAL AIRFLOW OF THE RETURN FAN. THE AIRFLOW MEASURING TRANSMITTERS SHALL OUTPUT THE TOTAL CFM READING TO THE DDC SYSTEM. THE DDC SYSTEM SHALL CALCULATE THE DIFFERENCE OF THE TOTAL SUPPLY AIR AND THE TOTAL RETURN AIR TO MAKE AN OUTSIDE AIR QUANTITY SOFTWARE POINT. THE DDC SYSTEM SHALL MODULATE THE SPEED OF THE RETURN AIR FAN VFD TO MAINTAIN THE CALCULATED OUTSIDE AIR QUANTITY WITHIN 2% OF THE OUTSIDE AIR QUANTITY SETPOINT.

**AIR HANDLER OPERATING STATES**  
THE AIR HANDLING UNIT SHALL OPERATE IN TWO DISTINCT STATES. CRITERIA TO TRANSITION BETWEEN STATES ARE INDICATED BELOW. TO TRANSITION BETWEEN STATES THE CRITERIA SHALL BE MET FOR AN ADJUSTABLE MINIMUM PERIOD OF TIME REFERRED TO AS "TRANSITION TIME".

**STATE 1 - FULL COOLING COIL**  
THE COOLING COIL CONTROL VALVE (V-CHW) SHALL BE CONTROLLED BY A CONTROL LOOP WITH THE DISCHARGE TEMPERATURE TRANSMITTER (TT-DAT), AS THE INPUT, AND A SETPOINT EQUAL TO THE DISCHARGE AIR SETPOINT OF (52 F, ADJUSTABLE). ON A RISE IN TEMPERATURE ABOVE TT-DAT SETPOINT, THE VALVE SHALL MODULATE OPEN. ON A FALL IN TEMPERATURE BELOW TT-DAT SETPOINT, THE VALVE SHALL MODULATE CLOSED. TT-DAT SHALL ALARM THE DDC SYSTEM WHENEVER THE DISCHARGE TEMPERATURE IS TOO HIGH OR LOW. THE COOLING COIL CONTROL LOOP SHALL CONTROL THE LEAVING AIR TEMPERATURE WITHIN +/- 0.5 DEGREE F.

**STATE 2 - PREHEAT**  
WHEN THE UNIT IS IN STATE 2:  
- THE RETURN DAMPER SHALL BE FULLY OPEN.  
WHEN THE UNIT IS IN STATE 2 THE PREHEAT HOT WATER VALVE (V-HTG) SHALL BE CONTROLLED BY A SELECTING THE MINIMUM OUTPUT OF THE PREHEAT MINIMUM TEMPERATURE CONTROL LOOP (AS DESCRIBED BELOW) AND THE DISCHARGE AIR TEMPERATURE CONTROL LOOP. THE DISCHARGE AIR TEMPERATURE CONTROL LOOP SHALL HAVE THE UNIT DISCHARGE AIR TEMPERATURE TRANSMITTER (TT-DAT) AS INPUT AND A SETPOINT OF THE DISCHARGE AIR SETPOINT (52 F).

**TRANSITION FROM STATE 1 TO STATE 2**  
TRANSITION FROM STATE 1 TO STATE 2 OCCURS WHEN THE CHILLED WATER CONTROL VALVE (V-CHW) HAS BEEN MODULATED CLOSED FOR 3 MINUTES (ADJ.).

**TRANSITION FROM STATE 2 TO STATE 1**  
TRANSITION FROM STATE 2 TO STATE 1 OCCURS WHEN THE PREHEAT CONTROL VALVE (V-HTG) HAS BEEN MODULATED CLOSED FOR 3 MINUTES (ADJ.).

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**PRE-HEAT COIL LOW LIMIT CONTROL**  
THE PRE-HEAT COIL LOW LIMIT CONTROL LOOP SHALL BE OPERATIVE AT ALL TIMES WHEN THE UNIT IS IN ANY STATE, INCLUDING WHEN THE UNIT IS DE-ENERGIZED. TO MAINTAIN A MINIMUM PREHEAT COIL DISCHARGE TEMPERATURE, THE PREHEAT LOW LIMIT CONTROL LOOP SHALL HAVE THE PREHEAT COIL LEAVING AIR TEMPERATURE TRANSMITTER (TT-PHT) AS INPUT AND THE SET POINT SHALL BE 42° F (ADJ.). THE BAS SHALL ISSUE A "PREHEAT LOW LIMIT ALARM" IF THE PHT FALLS BELOW SET POINT -1° F. THE ALARM SHALL RESET WHEN THE PHT RISES +1° F ABOVE SET POINT.

IF THE PREHEAT COIL LEAVING AIR TEMPERATURE FALLS TO 38° F, THE BAS SHALL SHUT DOWN THE SUPPLY AND RETURN FANS, CLOSE THE OUTSIDE AIR DAMPER, AND FULLY OPEN THE RETURN DAMPER. A "PREHEAT TEMPERATURE SHUTDOWN ALARM" SHALL BE GENERATED AT THE BAS FRONT-END. A SOFTWARE RESET SHALL BE REQUIRED TO RESTART THE UNIT.

**PRE-HEAT CIRCULATING PUMP**  
WHEN THE PREHEAT LEAVING AIR TEMPERATURE IS ABOVE 47°F (ADJ.), THE HW RECIRCULATION PUMP SHALL BE OFF. ONCE THE PREHEAT LEAVING AIR TEMPERATURE DROPS BELOW 47°F (ADJ.), THE HW RECIRCULATION PUMP WILL ENERGIZE AND REMAIN ON UNTIL THE PREHEAT LEAVING AIR TEMPERATURE RISES TO ABOVE 50°F (ADJ.). A DIFFERENTIAL PRESSURE SENSOR ACROSS THE PREHEAT COIL PHT-SPTS SHALL BE EMPLOYED TO SENSE THE PRESENCE OF FLOW THROUGH THE PREHEAT COIL. THE HW RECIRCULATION PUMP SHALL BE BALANCED TO WHERE THE DIFFERENTIAL PRESSURE SETPOINT FOR THE PUMP ACHIEVES A VELOCITY 3 FT./SECOND FLOW THROUGH THE PREHEAT COIL. IF THE LOSS OF FLOW IS SENSED WHEN THE HW RECIRCULATION PUMP IS COMMANDED ON, THE PREHEAT VALVE SHALL OPEN AND THE BAS SHALL GENERATE A "PREHEAT COIL CIRCULATING PUMP ALARM" AT THE FRONT-END.

**HUMIDIFIER**  
THE HUMIDIFIER CONTROLS SHALL BE ACTIVE ANY TIME THE SUPPLY FAN IS RUNNING.

THE TRAUMA ROOM SPACE HUMIDITY SHALL CONTROL THE HUMIDIFIER TO MAINTAIN THE REQUIRED HUMIDITY LEVEL IN THE TRAUMA ROOM. WHEN THE HUMIDITY LEVEL IN THE TRAUMA ROOM DROPS BELOW 25% RH, THE HUMIDIFIER VALVE SHALL MODULATE OPEN UNTIL THE TRAUMA ROOM HUMIDITY LEVEL EXCEEDS 35% RH. WHEN THE TRAUMA ROOM HUMIDITY EXCEEDS 35% RH THE HUMIDIFIER SHALL BE DISABLED UNTIL THE RH IN THE TRAUMA ROOM FALLS BELOW 25% RH.

WHENEVER THE HUMIDIFIER DISCHARGE AIR IS ABOVE THE CONTROLLING LIMIT SETPOINT (80% ADJ.) AS SENSED BY THE HIGH LIMIT HUMIDISTAT, HT-SAH, THE HUMIDIFIER VALVE SHALL BE MODULATED CLOSED TO MAINTAIN THE CONTROLLING LIMIT SETPOINT.

WHENEVER THE HUMIDIFIER DISCHARGE AIR IS ABOVE THE HIGH LIMIT SETPOINT, 95% ADJUSTABLE, AS SENSED BY THE HT-SAH, THE DDC SYSTEM SHALL DISABLE THE HUMIDIFIER, CLOSE THE STEAM VALVE, AND AN ALARM SHALL BE SENT TO THE OPERATOR WHICH MUST BE ACKNOWLEDGED AND RESET IN ORDER TO RE-ENABLE THE HUMIDIFIER.

**FREEZE STAT**  
WHENEVER FREEZE STAT, TS-FZ, SENSES A TEMPERATURE BELOW 36 DEGREES F (ADJ.), IT SHALL PERFORM THE FOLLOWING:

- THE RETURN FAN AND THE ASSOCIATED EXHAUST FANS SHALL SHUTDOWN.
- THE MINIMUM OUTSIDE AIR DAMPER (D-MIN) SHALL CLOSE.
- THE RETURN DAMPER (D-RET) SHALL OPEN.
- FULLY OPEN THE CHILLED WATER VALVE (V-CHW) AND PREHEAT VALVE (V-HTG)
- ISSUE A UNIQUE ALARM.
- OPEN THE LEAD CHILLER CHILLED WATER ISOLATION VALVE AND COMMAND ON THE VARIABLE PRIMARY OR SECONDARY CHILLED WATER PUMP AND CONTROL ITS SPEED TO MAINTAIN THE DIFFERENTIAL PRESSURE SET POINT, IF APPLICABLE.
- A MANUAL RESET AT THE AHU SHALL BE REQUIRED TO RESTART AN AHU THAT HAS AUTOMATICALLY SHUT DOWN FROM A FREEZE STAT TRIP.

**FILTERS**  
ALL FILTERS SHALL HAVE A DIFFERENTIAL PRESSURE SWITCH (DPS-FIL & DPS-PFL) MEASURING THE PRESSURE DROP ACROSS THE FILTER BANKS. EACH SHALL ALARM THE DDC SYSTEM WHENEVER THE PRESSURE DROP ACROSS THE FILTER IS EXCESSIVE (DIRTY FILTER) (ADJ.).

**FIRE ALARM SHUTDOWN**  
WHENEVER THE FIRE ALARM SYSTEM SENSES SMOKE/FIRE, THE FIRE ALARM SYSTEM SHALL SIGNAL THE DDC SYSTEM. THE DDC SYSTEM IS TO DE-ENERGIZE THE UNIT AND SHALL PERFORM THE FOLLOWING:

- SHUTDOWN THE SUPPLY AIR FAN
- SHUTDOWN THE RETURN AIR FAN
- SHUTDOWN THE ASSOCIATED EXHAUST FANS.
- CLOSE CHILLED WATER VALVE (V-CHW)
- CLOSE THE OUTSIDE AIR DAMPER (D-MIN)
- OPEN THE RETURN AIR DAMPER (D-RET).
- THE PREHEAT COIL (V-HTG) SHALL REMAIN UNDER THE CONTROL OF THE PREHEAT DISCHARGE TEMPERATURE SENSOR.

**ANTIMICROBIAL ULTRAVIOLET LIGHTS**  
UV LIGHTS SHALL BE ON WHENEVER UNIT IS OPERATIONAL, AND OFF WHEN UNIT IS OFF. UV LIGHTS SHALL BE INTERLOCKED TO A DOOR SWITCH SUCH THAT THE LIGHTS ARE DEACTIVATED WHEN THE ACCESS DOOR(S) TO THE SECTION IS OPENED. A SECOND MANUAL SWITCH SHALL BE PROVIDED JUST OUTSIDE THE UNIT, BY EACH DOOR, FOR SAFETY.

THE COOLING COIL SHALL HAVE A DIFFERENTIAL PRESSURE SENSOR (DPS-CC) MEASURING THE PRESSURE DROP ACROSS THE COIL. THE COIL SHALL BE DEACTIVATED WHEN THE ACCESS DOOR(S) TO THE SECTION IS OPENED. A SECOND MANUAL SWITCH SHALL BE PROVIDED JUST OUTSIDE THE UNIT, BY EACH DOOR, FOR SAFETY.

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**SUPPLY FAN STATIC PRESSURE RESET**  
THE CONTROL SYSTEM SHALL MONITOR THE DAMPER POSITIONS OF THE VAV TERMINAL UNITS SERVED BY THE AIR HANDLING UNIT. THE TAB CONTRACTOR SHALL DETERMINE THE MAXIMUM AND MINIMUM LIMIT OF THE STATIC PRESSURE SET POINT. THE MAXIMUM LIMIT SHALL BE DETERMINED BY SETTING ALL VAV TERMINALS TO FULL COOLING AND DETERMINING THE STATIC PRESSURE SET POINT WHICH RESULTS IN THE VAV DAMPER THAT IS MOST OPEN AT 95% OF THE MINIMUM LIMIT OF THE STATIC PRESSURE SET POINT SHALL BE DETERMINED IN A SIMILAR METHOD WITH ALL OF THE VAV TERMINALS SET AT MINIMUM COOLING.

THE SUPPLY AIR STATIC PRESSURE SHALL BE RESET BASED ON THE TERMINAL BOX AIR DAMPER POSITION. THE STATIC PRESSURE CONTROL LOOP SHALL POLL ALL TERMINAL BOXES IN THE SYSTEM AND REDUCE STATIC PRESSURE 0.02 IN. W.C. (ADJ.) OVER AN 5 MINUTE (ADJ.) TIME PERIOD UNTIL ANY TERMINAL BOX AIR DAMPER HAS OPENED TO 95% (ADJ.) STATIC PRESSURE WILL INCREASE 0.05 IN. W.C. (ADJ.) WHEN ANY TERMINAL BOX IN THE SYSTEM IS ABOVE 95% OPEN. THE CALCULATION MUST BE BETWEEN THE STATIC PRESSURE MINIMUM AND STATIC PRESSURE MAXIMUM SOFTWARE POINTS BEFORE WRITING OUT TO THE SUPPLY AIR STATIC PRESSURE SETPOINT. ANY TERMINAL BOX IN THE SYSTEM MAY BE ADDED TO AN EXCEPTION LIST AND ELIMINATED FROM THE STATIC PRESSURE RESET CONTROL LOOP.

**UNIT DISCHARGE TEMPERATURE SET POINT AND RESET**  
THE SUPPLY AIR TEMPERATURE SHALL BE RESET BASED ON THE COOLING OUTPUT OF THE TERMINAL BOX DETERMINED BY PERCENT OF FLOW BETWEEN MINIMUM AND MAXIMUM COOLING FOR VARIABLE VOLUME BOXES. THE SUPPLY TEMPERATURE CONTROL LOOP SHALL POLL ALL TERMINAL BOXES IN THE SYSTEM AND INCREASE THE SUPPLY TEMPERATURE 0.2°F (ADJ.) OVER A 5 MINUTE (ADJ.) TIME PERIOD UNTIL ANY TERMINAL BOX COOLING OUTPUT HAS EXCEEDED 95% SUPPLY TEMPERATURE WILL DECREASE BY 0.5°F (ADJ.) WHEN ANY TERMINAL BOX IN THE SYSTEM IS ABOVE 95%. IF RETURN AIR RELATIVE HUMIDITY EXCEEDS 60%, SUPPLY TEMPERATURE WILL RESET DOWN. MAXIMUM SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 58°F. IF RETURN AIR TEMPERATURE IS GREATER THAN 50°F AND 52°F WHEN OUTSIDE AIR TEMPERATURE IS LESS THAN 55°F, ANY TERMINAL BOX IN THE SYSTEM MAY BE ADDED TO AN EXCEPTION LIST AND ELIMINATED FROM THE DISCHARGE TEMPERATURE RESET CONTROL LOOP.

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**UNIT DISCHARGE TEMPERATURE SET POINT AND RESET**  
THE SUPPLY AIR TEMPERATURE SHALL BE RESET BASED ON THE COOLING OUTPUT OF THE TERMINAL BOX DETERMINED BY PERCENT OF FLOW BETWEEN MINIMUM AND MAXIMUM COOLING FOR VARIABLE VOLUME BOXES. THE SUPPLY TEMPERATURE CONTROL LOOP SHALL POLL ALL TERMINAL BOXES IN THE SYSTEM AND INCREASE THE SUPPLY TEMPERATURE 0.2°F (ADJ.) OVER A 5 MINUTE (ADJ.) TIME PERIOD UNTIL ANY TERMINAL BOX COOLING OUTPUT HAS EXCEEDED 95% SUPPLY TEMPERATURE WILL DECREASE BY 0.5°F (ADJ.) WHEN ANY TERMINAL BOX IN THE SYSTEM IS ABOVE 95%. IF RETURN AIR RELATIVE HUMIDITY EXCEEDS 60%, SUPPLY TEMPERATURE WILL RESET DOWN. MAXIMUM SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 58°F. IF RETURN AIR TEMPERATURE IS GREATER THAN 50°F AND 52°F WHEN OUTSIDE AIR TEMPERATURE IS LESS THAN 55°F, ANY TERMINAL BOX IN THE SYSTEM MAY BE ADDED TO AN EXCEPTION LIST AND ELIMINATED FROM THE DISCHARGE TEMPERATURE RESET CONTROL LOOP.

## BMS INPUT / OUTPUT POINTS LIST

POINT DESCRIPTION	DESIGNATION	NOTES	QUANTITY	GRAPHIC DISPLAY	HARDWARE																				SOFTWARE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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					DAMPER OPEN / CLOSE	VALVE OPEN / CLOSE	START / STOP	FORCE ON	FORCE OFF	ENABLE / DISABLE	DAMPER CONTROL	VALVE CONTROL	CONTROL	FIXED PRESET	END SWITCH	RELAY CONTACTS	HAND SWITCH	CURRENT RELAY (CSR)	PRESSURE SWITCH	DIFFERENTIAL PRESS	FLOW SWITCH	AUX CONTACTS	STATUS	ALARM																									FAULT RESET	PRESSURE	DIFFERENTIAL PRESS	FLOW METER	KW	HEAT REFERENCE	TEMPERATURE (DB)	RELATIVE HUMIDITY	DEW POINT	MEASURE	SPEED / POSITION	PULSE	STATUS FAILURE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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A. REFER TO M00-00 FOR GENERAL MECHANICAL NOTES AND SYMBOLS.

B. ALL EXISTING CONDITIONS INDICATED ON THESE DRAWINGS ARE APPROXIMATE AND BASED UPON A COMBINATION OF AVAILABLE RECORD DESIGN AND AS-BUILT DOCUMENTS.

C. CONTRACTOR TO VERIFY EXISTING CONDITIONS.

D. EXISTING DUCT SIZES AND AIRFLOW VOLUMES ON PLAN ARE PER THE DESIGN DOCUMENTS AVAILABLE.

E. CONTRACTOR TO PRE-BID ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SERVED BY THE SYSTEMS MOVED AS A PART OF THIS SCOPE. PRE-BID TO INCLUDE CURRENT CONSTRUCTION SCOPE AREAS AND ALL OUT OF SCOPE AREAS SERVED BY THE MODIFIED SYSTEMS. CONTRACTOR TO DOCUMENT PRECONSTRUCTION VALUES AND PROVIDE TO ENGINEER OF RECORD. UPON COMPLETION OF CONSTRUCTION, REBALANCE ALL EXISTING DUCTS TO PRE-TABLED VALUES.

F. PROVIDE TEMPORARY AHU FOR AREAS IMPACTED BY AHU REPLACEMENT.

1. 26"x18" EXISTING EA DUCT UP TO EF-2 ON ROOF.
2. 16"x16" EXISTING EA DUCT UP TO EF-1 ON ROOF.

WSP

STATE OF MISSOURI  
JONATHAN DECKER  
NUMBER  
PE-2021039309  
PROFESSIONAL ENGINEER  
04/18/2025  
WSP USA Buildings Inc. 2013001881

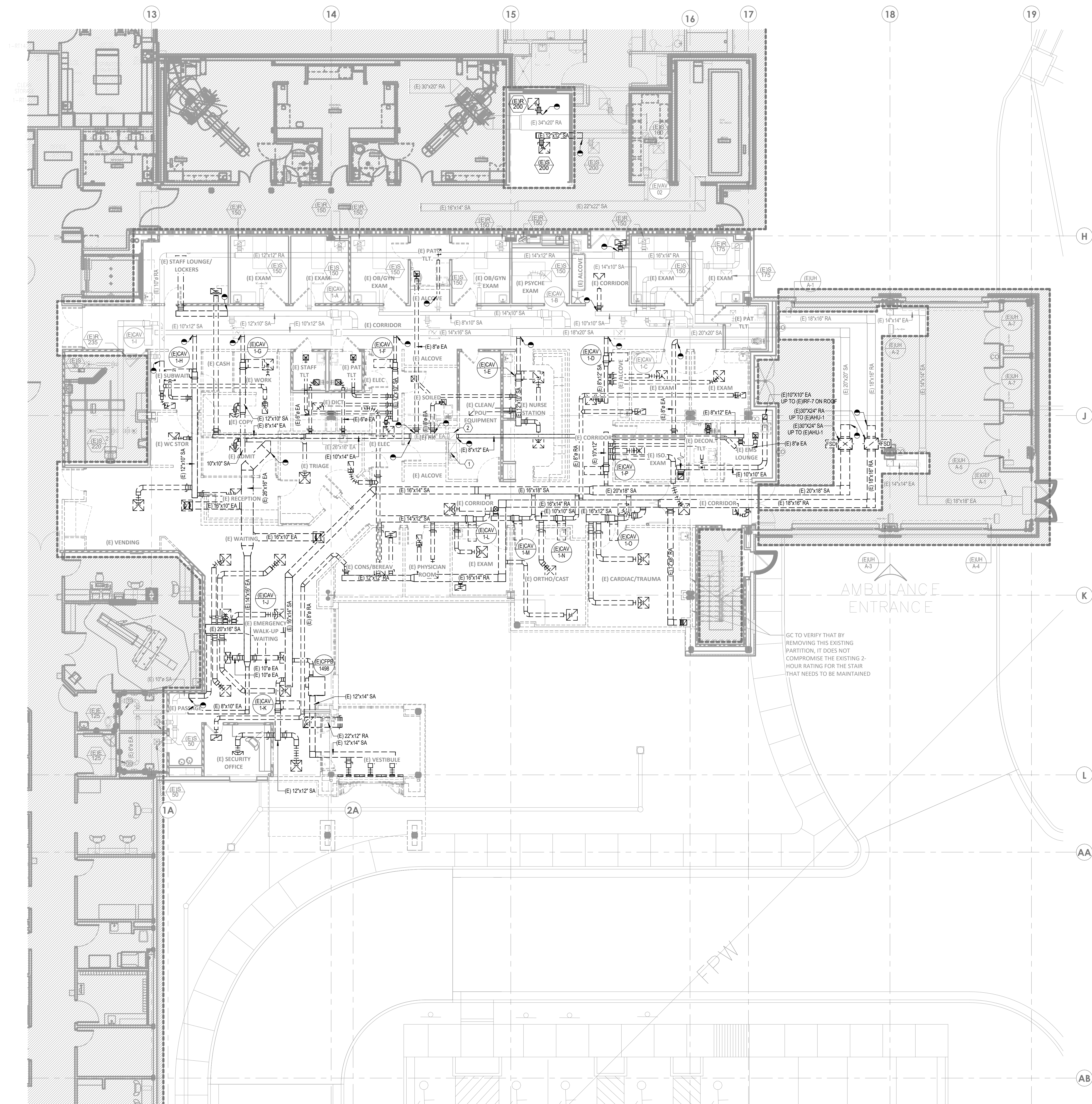
HCA - LEE'S SUMMIT MEDICAL  
CENTER  
2100 SE BLUE PKWY LEE'S  
SUMMIT, MO 64063

FACILITY NUMBER:  
**0972400011**

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	HO
REVIEWED:	JD
JOB NUMBER:	US0040241.3707

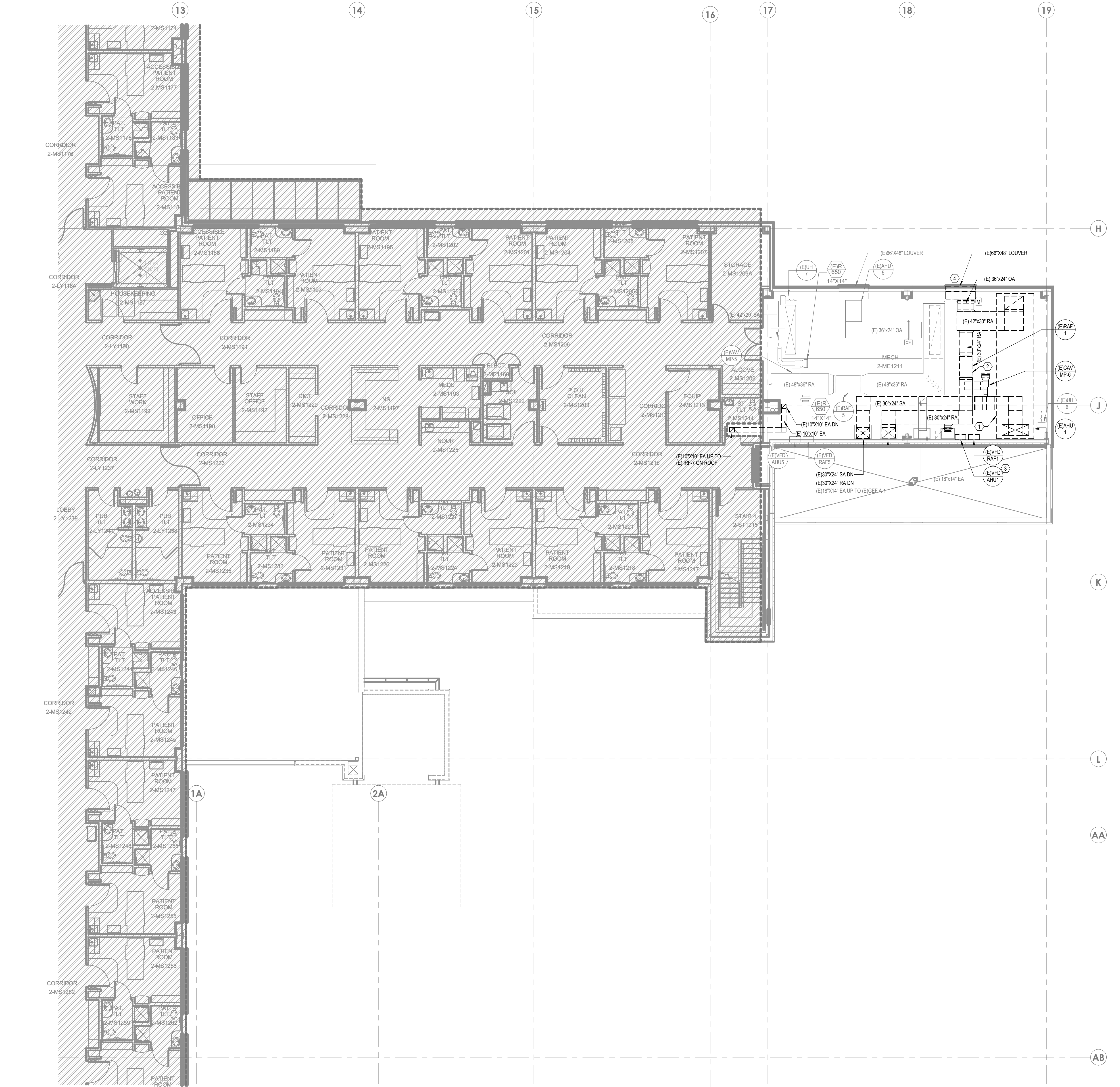
MD02-01



1 DEMOLITION PLAN - LEVEL 01 - HVAC  
1/8" = 1'-0"

LEVEL 1 - KEYPLAN





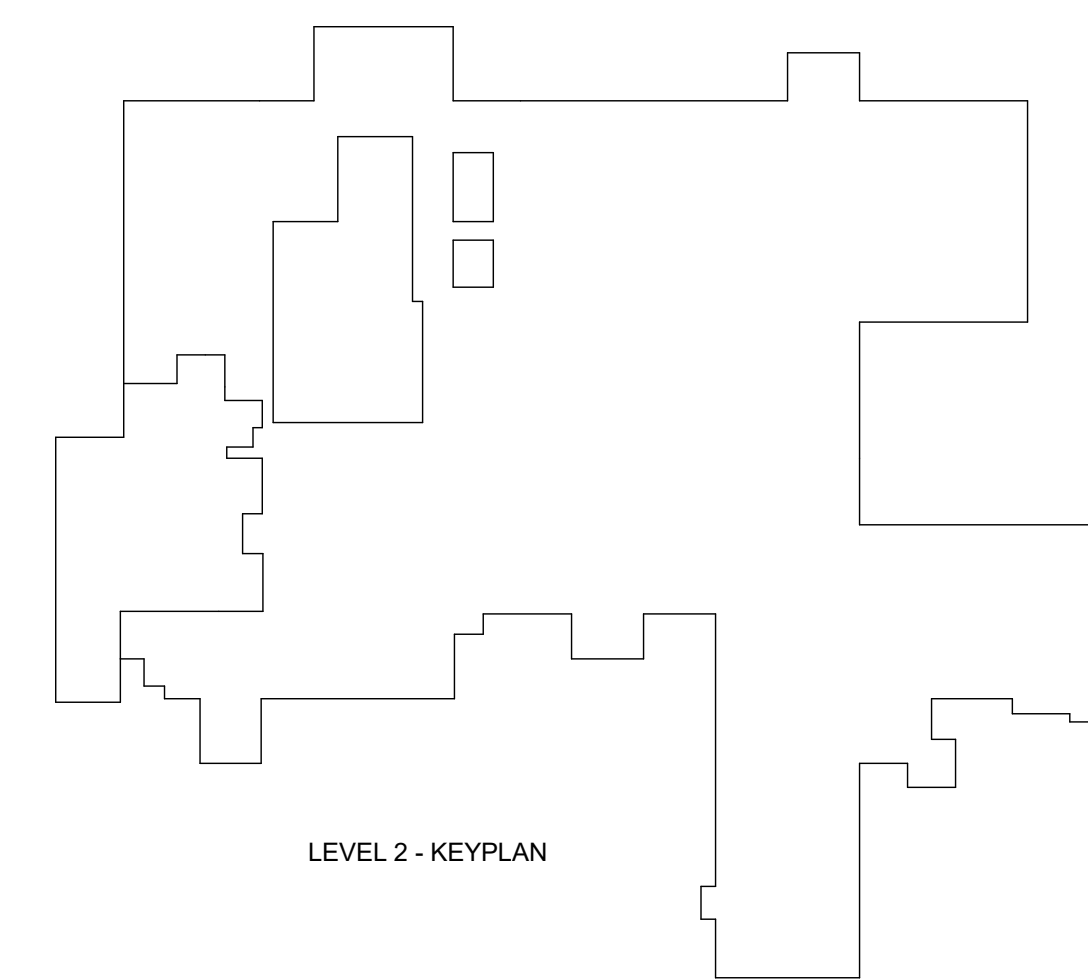
1 DEMOLITION PLAN - LEVEL 02 - HVAC  
1/8" = 1'-0"

## GENERAL DEMO NOTES

- REFER TO MD-00 FOR GENERAL MECHANICAL NOTES AND SYMBOLS.
- ALL EXISTING CONDITIONS INDICATED ON THESE DRAWINGS ARE APPROXIMATE AND BASED UPON A COMBINATION OF AVAILABLE RECORD DESIGN AND AS-BUILT DOCUMENTS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.
- ALL EXISTING DUCT SIZES AND AIRFLOW VALUES ON PLAN ARE PER THE DESIGN DOCUMENTS AVAILABLE.
- CONTRACTOR TO PRE-TAB ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SERVED BY EXISTING SYSTEMS MODIFIED AS A PART OF THIS SCOPE. PRE-TAB TO INCLUDE CURRENT CONSTRUCTION SCOPE AREAS AND ALL OUT-OF-SCOPE AREAS SERVED BY THE MODIFIED SYSTEMS. CONTRACTOR TO DOCUMENT PRECONSTRUCTION VALUES AND PROVIDE TO ENGINEER OF RECORD UPON COMPLETION OF CONSTRUCTION. REBALANCE ALL EXISTING AREAS TO PRE-TABBED CONSTRUCTION VALUES.
- PROVIDE TEMPORARY AHU FOR AREAS IMPACTED BY AHU REPLACEMENT.

## LEGEND NOTES

- DEMOLISH EXISTING AHU-1 AND ASSOCIATED DUCTWORK AND ACCESSORIES.
- DEMOLISH EXISTING RAF-1 AND ASSOCIATED DUCTWORK AND ACCESSORIES.
- DEMOLISH EXISTING VFD FOR RAF-1 AND EXISTING VFD FOR AHU-1. RETURN VFDs TO OWNER.
- DEMOLISH EXISTING 66"x48" LOUVER.



LEVEL 2 - KEYPLAN



Devenney Group Ltd., Architects

6900 East Camelback Road  
Suite 500  
Scottsdale, AZ 85251

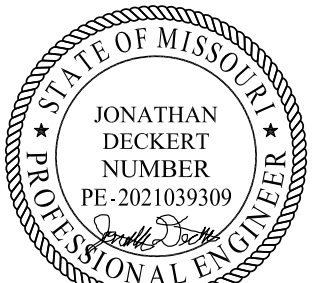
T: 602.943.8950

www.devenneygroup.com

Consultant:



300 WYANDOTTE, SUITE 200  
KANSAS CITY, MO 64105



WSP USA Buildings Inc. 2013001881

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## ED EXPANSION

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

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

FACILITY NUMBER:  
0972400011

AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 04/18/25  
SCALE: 1/8" = 1'-0"  
DRAWN: HO  
REVIEWED: JD  
JOB NUMBER: U50040241.3707

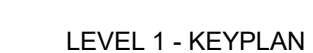
DEMOLITION PLAN - LEVEL  
02 - HVAC

MD02-02



- A. REFER TO M00-040 FOR GENERAL MECHANICAL NOTES AND SYMBOLS.
- B. ALL EXISTING CONDITIONS INDICATED ON THESE DRAWINGS ARE APPROXIMATE AND BASED UPON A COMBINATION OF AVAILABLE RECORD DESIGN AND AS-BUILT DOCUMENTS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.
- C. ALL EXISTING PIPE SIZES ON PLAN ARE PER THE DESIGN DOCUMENTS PROVIDED.
- D. CONTRACTOR TO PRE-TAB ALL SUPPLY AND RETURN PIPING SERVED BY EXISTING SYSTEMS MODIFIED AS A PART OF THIS SCOPE. CONTRACTOR TO DOCUMENT PRECONSTRUCTION VALUES AND PROVIDE TO ENGINEER OF RECORD. UPON COMPLETION OF CONSTRUCTION, REBALANCE ALL EXISTING AREAS TO PRE-TABBED CONSTRUCTION VALUES.

1. DEMOLISH EXISTING VAV BOX.
2. CONTRACTOR TO DEMOLISH HWS/R LINES AS SHOWN AND INSTALL NEW SHUTOFF VALVES.



T: 602.943.8950  
www.devenneygroup.com

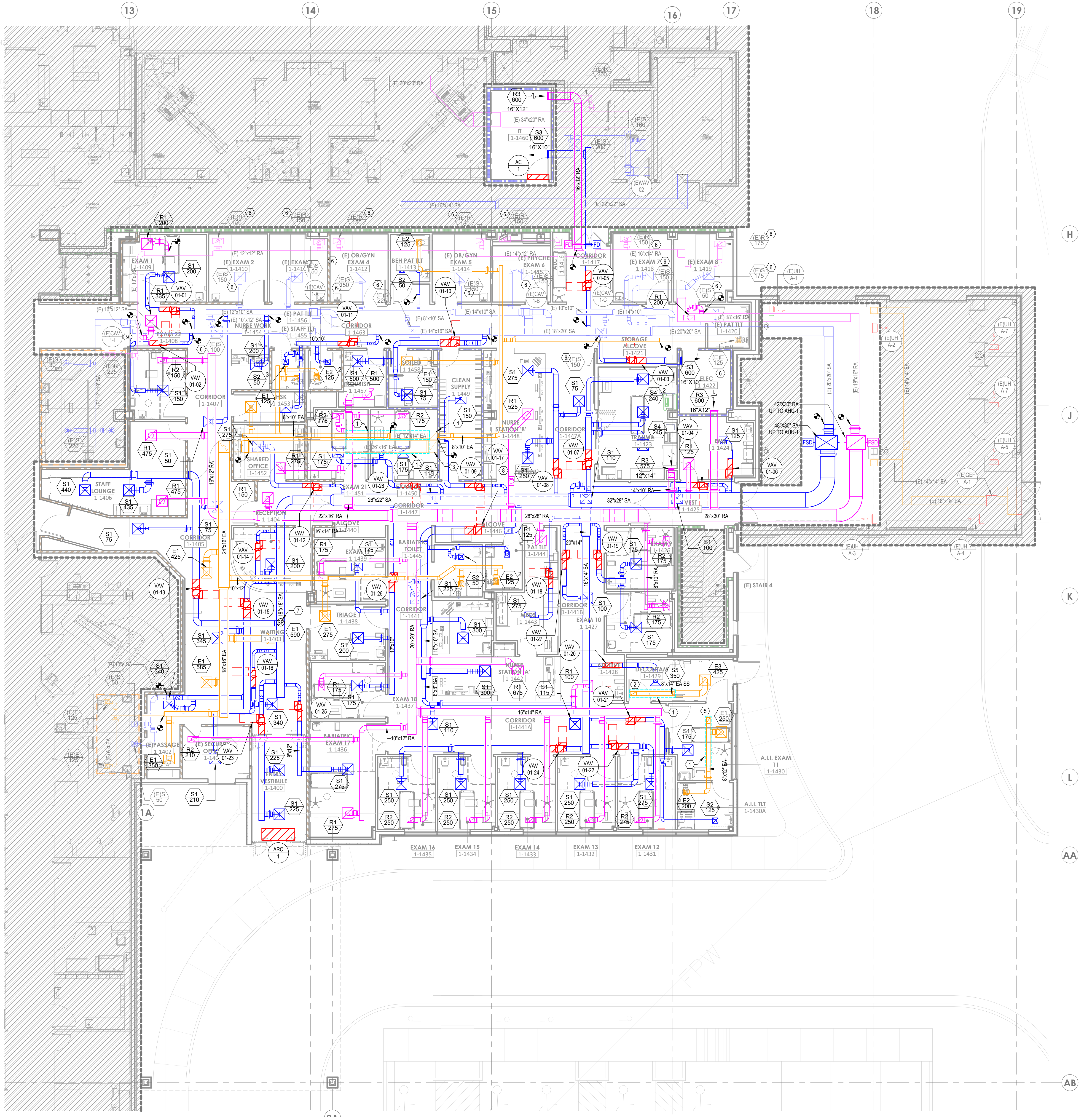
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1 FLOOR PLAN - LEVEL 01 - HVAC  
1/8" = 1'-0"

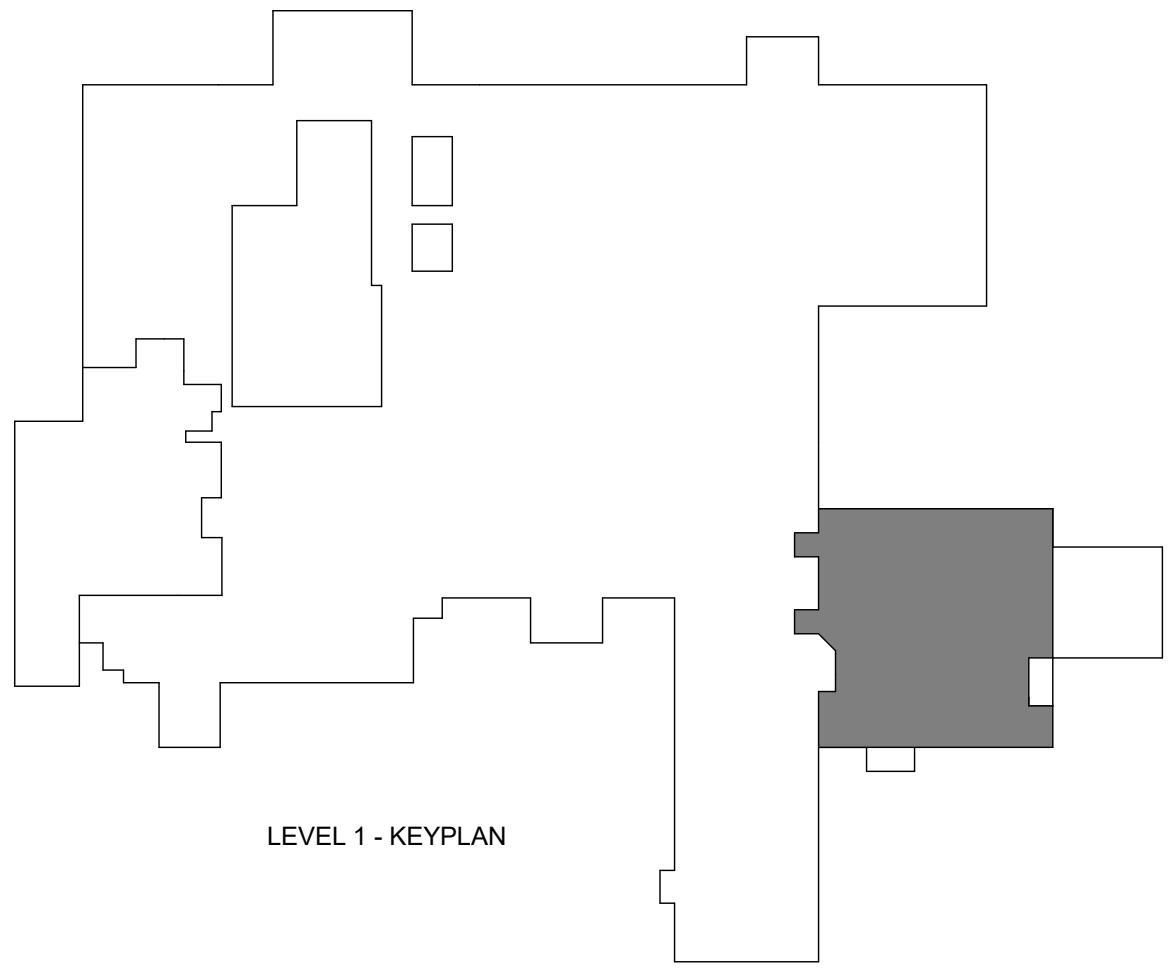


## GENERAL NOTES

- REFER TO M00-00 FOR GENERAL MECHANICAL NOTES AND SYMBOLS.
- CONTRACTOR TO VERIFY EXISTING CONDITIONS. EXISTING WORK SHOWN IS APPROXIMATE AND REPRESENTATIVE OF EXISTING DESIGN AND AS-BUILT DRAWINGS.
- PROVIDE REMOTE ADJUSTABLE DAMPERS FOR ANY BALANCING DAMPERS LOCATED ABOVE HARD CEILINGS.
- ACCESS PANELS TO BE PROVIDED FOR ANY MECHANICAL EQUIPMENT OR MECHANICAL DEVICES REQUIRING SERVICE LOCATED ABOVE HARD CEILINGS.

## LEGEND NOTES

- PROVIDE SOUND LAGGING FOR 15' OF HORIZONTAL DUCT AND VERTICAL DUCT UP TO EXHAUST FAN AS SHOWN WITH DASHED LINE. REFER TO DETAILS 06M07-01 AND 06M07-03.
- 8"x14" STAINLESS STEEL EA DUCT UP TO DEF-1 ON ROOF.
- 8"x18" EXISTING EA DUCT UP TO EF-2 ON ROOF.
- 16"x18" EXISTING EA DUCT UP TO EF-1 ON ROOF.
- 12"x8" EA DUCT UP TO RIF-8 ON ROOF.
- BALANCE EXISTING DIFFUSER OR GRILLE TO CFM SHOWN ON PLAN.
- PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU-1.
- ROUTE NEW DUCTWORK AROUND EXISTING P-TUBE.
- CONTRACTOR TO FIELD VERIFY EXISTING VAV ACCESS IS NOT OBSTRUCTED BY NEW DOUBLE DOORWAY. IF EXISTING VAV ACCESS IS OBSTRUCTED, CONTRACTOR TO SHIFT EXISTING VAV OUT OF OBSTRUCTION AS NEEDED TO OBTAIN FULL VAV ACCESS.



LEVEL 1 - KEY PLAN



Devenney Group Ltd., Architects  
6900 East Camelback Road  
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www.devenneygroup.com

Consultant:



300 WYANDOTTE, SUITE 200  
KANSAS CITY, MO 64105



WSP USA Buildings Inc. 2013001881

IF THESE PLANS DO NOT BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER, 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 BY WSP USA BUILDINGS INC. UNDER SEC. 102 OF THE COPYRIGHT ACT, 17 U.S.C. AS AMENDED DECEMBER 1990 AND KNOWN AS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. THE PROTECTION HEREIN IS NOT LIMITED TO THE OVERALL FORM OF THESE PLANS BUT ALSO INCLUDES THE COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNDER SUCH PROTECTION, UNAUTHORIZED USE OF THESE PLANS CAN LEGALLY RESULT IN THE SEIZURE OF CONSTRUCTION OR BUILDING 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

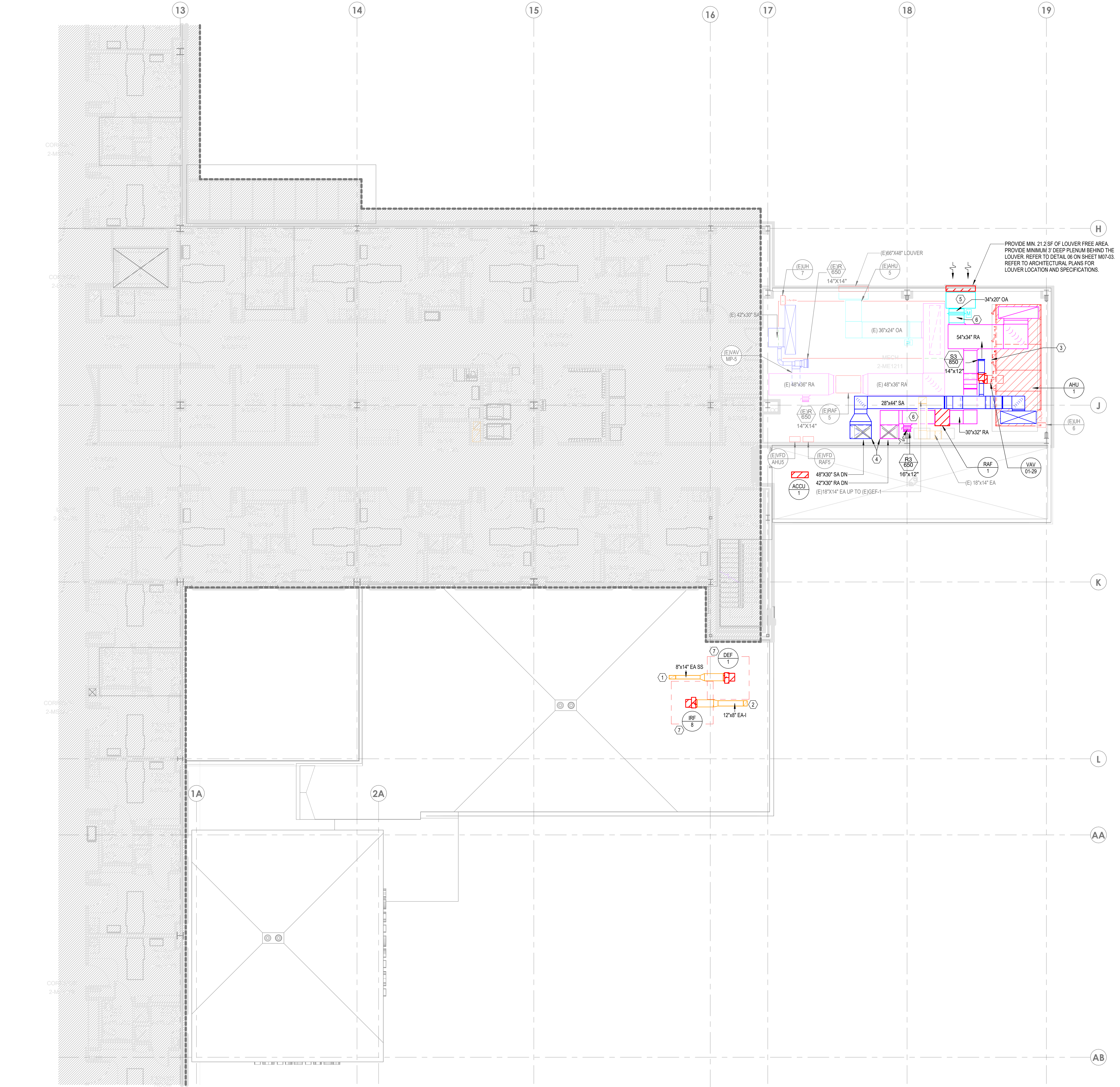
REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 04/18/25  
SCALE: 1/8" = 1'-0"  
DRAWN: HO  
REVIEWED: JD  
JOB NUMBER: U50040241.3707

FLOOR PLAN - LEVEL 01 -  
HVAC

M02-01





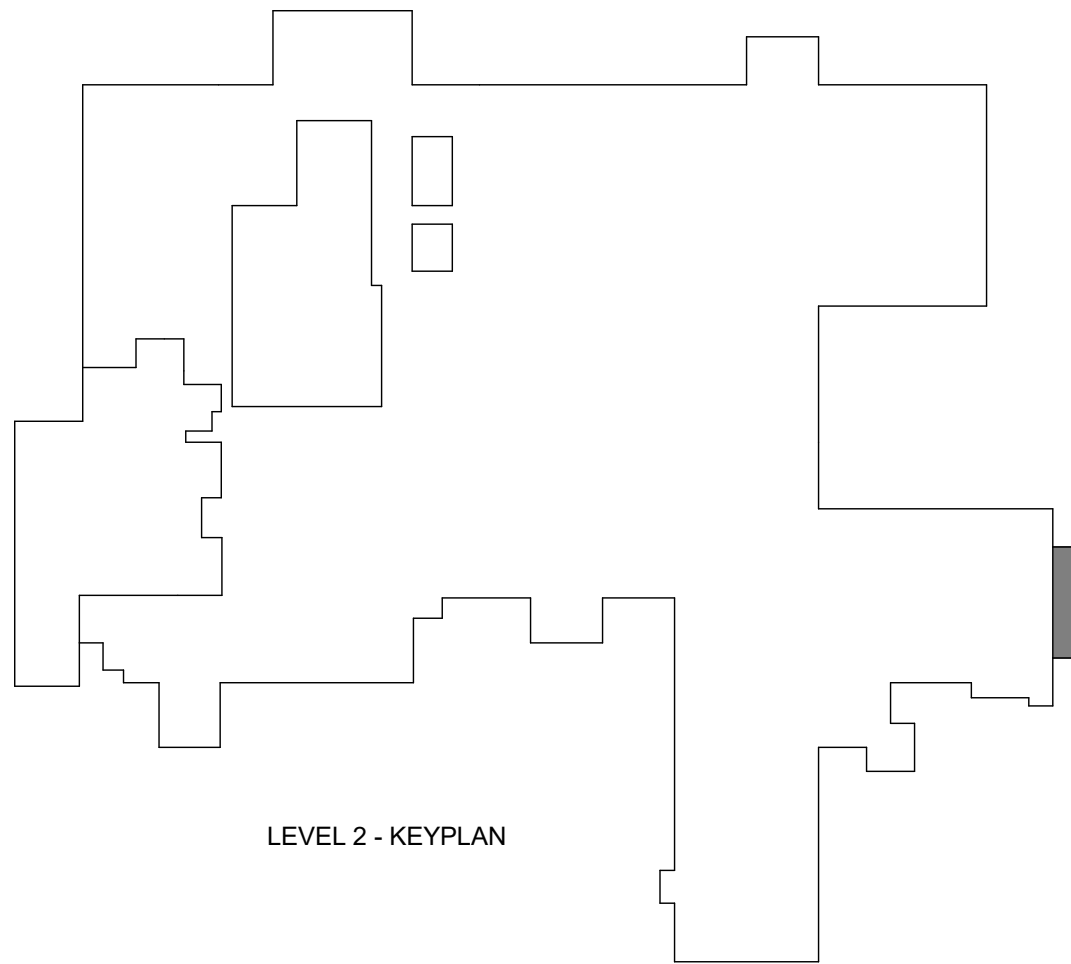
1 FLOOR PLAN - LEVEL 02 - HVAC  
1/8" = 1'-0"

### GENERAL NOTES

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- PROVIDE REMOTE ADJUSTABLE DAMPERS FOR ANY BALANCING DAMPERS LOCATED ABOVE HARD CEILINGS.
- ACCESS PANELS TO BE PROVIDED FOR ANY MECHANICAL EQUIPMENT OR MECHANICAL DEVICES REQUIRING SERVICE LOCATED ABOVE HARD CEILINGS.

### LEGEND NOTES

- 8"x14" STAINLESS STEEL EA DUCT DOWN TO LEVEL 1 DECONTAM.
- 12"x8" EA DUCT DOWN TO LEVEL 1 A.I. EXAM 11 AND 1LT.
- AHU COIL PULL AND ACCESS CLEARANCE ON THIS SIDE OF UNIT.
- CONTRACTOR TO LINE NEW SUPPLY DUCT UP WITH EXISTING SUPPLY PENETRATION AT THE BOTTOM RIGHT CORNER. CONTRACTOR TO LINE NEW RETURN DUCT UP WITH EXISTING RETURN PENETRATION AT THE BOTTOM LEFT CORNER. CONTRACTOR TO PROVIDE 2" CONCRETE CURB AROUND BOTH DUCT PENETRATIONS FOR WATER PENETRATION PREVENTION.
- REFER TO DETAIL 06/M07-03 FOR LOUVER PLENUM AND DRAIN DETAILS.
- CONTRACTOR TO INSTALL OAM II AIRFLOW MEASUREMENT SYSTEM MANUFACTURED BY AR MONITOR IN DUCTWORK AT LOCATION SHOWN ON PLAN 24 V. NEMA 1.
- REFER TO DETAIL 5/M07-02 FOR EXHAUST FAN DISCHARGE REQUIREMENTS.

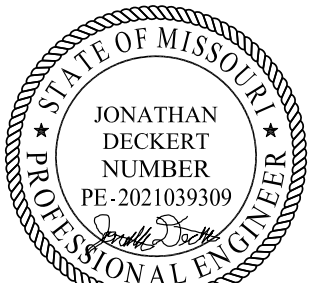


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KANSAS CITY, MO 64105



04/18/2025  
WSP USA Buildings Inc. 2013001881

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CITY OF LEE'S SUMMIT BUILDING DEPT.  
MISSOURI DHSS

FACILITY NUMBER:  
0972400011

AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

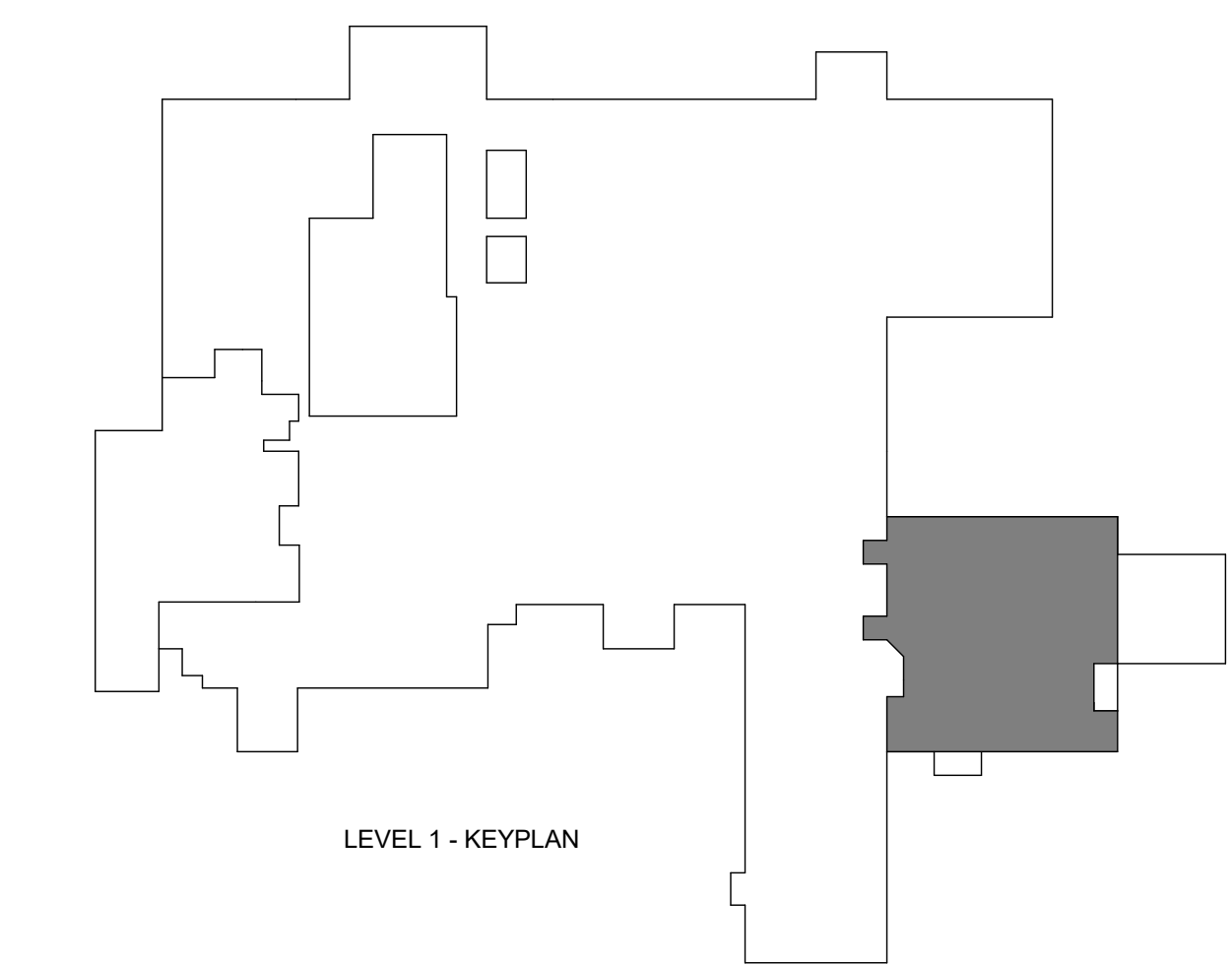
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SCALE: 1/8" = 1'-0"  
DRAWN: HO  
REVIEWED: JD  
JOB NUMBER: U50040241.3707

FLOOR PLAN - LEVEL 02 -  
HVAC

M02-02



1 FLOOR PLAN - LEVEL 01 - HVAC PIPING  
1/8" = 1'-0"



## GENERAL NOTES

- A. REFER TO M0-00 FOR GENERAL MECHANICAL NOTES, SYMBOLS AND LEGENDS.  
B. ALL EXISTING CONDITIONS INDICATED ON THESE DRAWINGS ARE BASED UPON A COMBINATION OF AVAILABLE RECORD DESIGN AND AS-BUILT DOCUMENTS.  
C. PROVIDE CEILING ACCESS PANELS FOR ALL EQUIPMENT, COILS, ETC. THAT ARE LOCATED ABOVE HARD CEILINGS UNLESS NOTED OTHERWISE.

## LEGEND NOTES

1. PROVIDE END OF MAIN FLUSHING VALVE AT THE END OF HW PIPING RUN. REFER TO DETAIL 030407.01.  
2. PROVIDE 3-WAY CONTROL VALVE FOR VAV AT THE END OF THE PIPING RUN.  
3. DIFFERENTIAL PRESSURE SENSOR MOUNTED ABOVE DOOR.  
4. PRESSURE MONITOR STATION, MOUNT AT 48" A.F.F.  
5. EPO SWITCH FOR AHU-1.  
6. PROVIDE PRESSURE MONITOR FOR ISOLATION ROOM.  
7. CALIBRATED ORIFICE BALANCING VALVE BALANCED TO GPM INDICATED.  
8. ROUTE REFRIGERANT PIPING TO CORRESPONDING CONDENSING UNIT ON ROOF. SIZE AND ROUTE PIPING PER MANUFACTURER'S REQUIREMENTS. DO NOT ROUTE REFRIGERANT PIPING OVER COMMUNICATIONS ROOMS RACKS OR WALL-MOUNTED EQUIPMENT.  
9. ROUTE CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN.  
10. PROVIDE TWO THERMOSTATS IN IT ROOM. ONE FOR VAV CONTROL AND ONE FOR MINI-SPLIT CONTROL. SET MINI-SPLIT THERMOSTAT 2-3°F LOWER THAN VAV TO PRIORITIZE MINI-SPLIT OPERATION AND ALLOW VAV TO ENGAGE AS SUPPLEMENTAL COOLING.  
11. THERMOSTAT TO BE WASH DOWN TYPE. PROVIDE PLASTIC COVER.

Devenney  
GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road  
Suite 500  
Scottsdale, AZ 85251

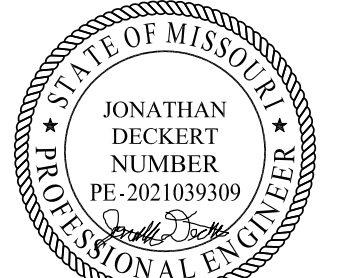
T: 602.943.8950

www.devenneygroup.com

Consultant:

**wsp**

300 WYANDOTTE, SUITE 200  
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## ED EXPANSION

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

FACILITY NUMBER:  
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AGENCY APPROVALS:  
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FLOOR PLAN - LEVEL 01 -  
HVAC PIPING

M03-01

4/22/2025 2:27:29 PM Autodesk Docs//p40624 - HCA - Lee's Summit Medical Center (LSMC) - r723/MEP - LSME ED Expansion, R23.rvt 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.

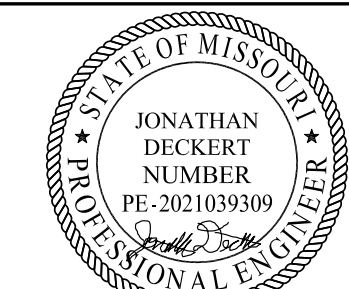


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FACILITY NUMBER  
0972400011

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AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	HO
REVIEWED:	JD
JOB NUMBER:	US0040241.3707

**FLOOR PLAN - LEVEL 02 -  
HVAC PIPING**

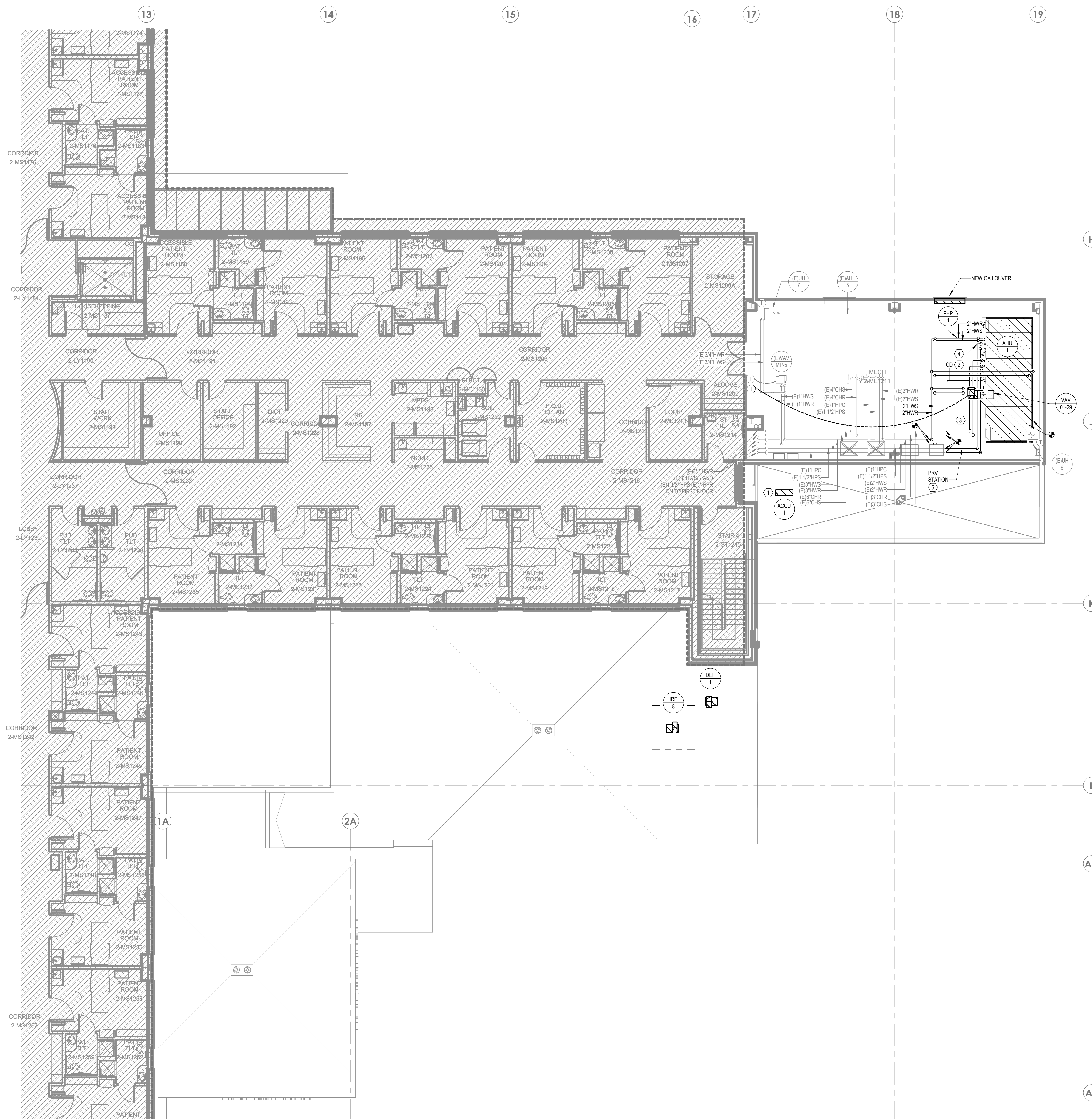
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## GENERAL NOTES

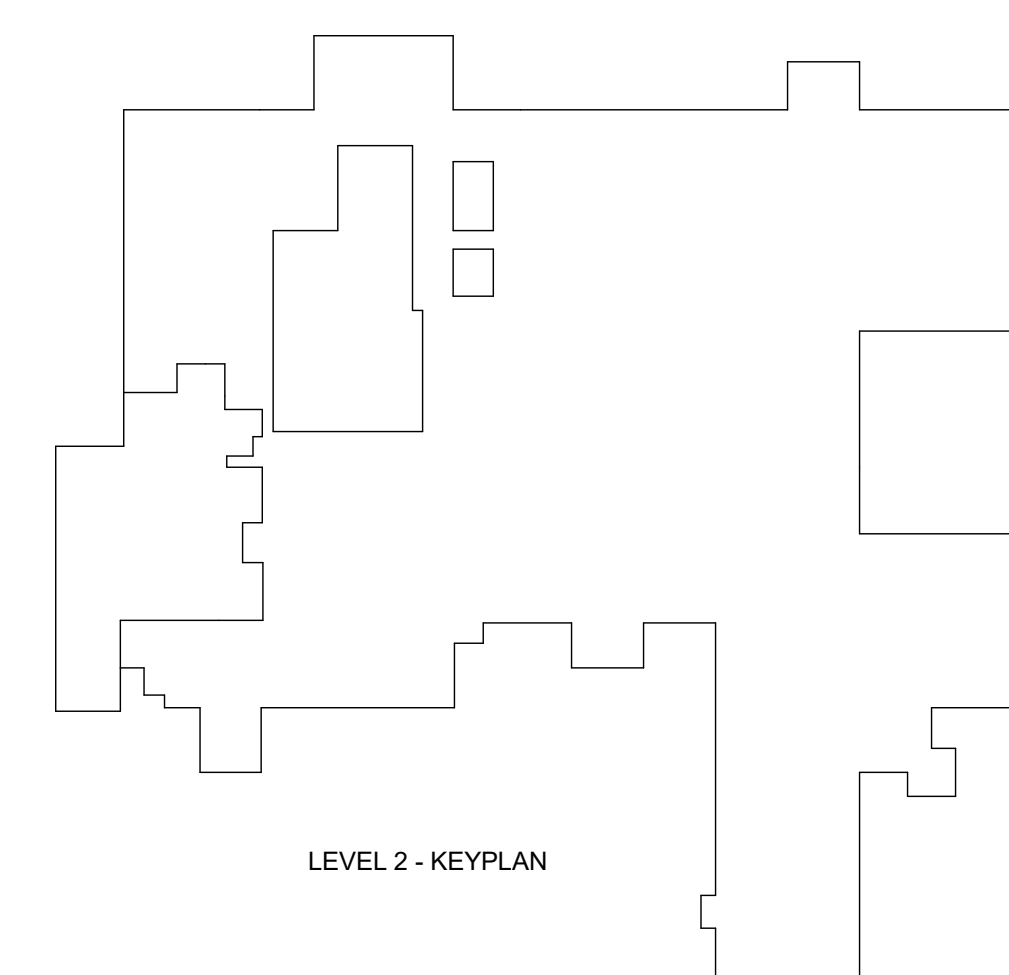
- A. REFER TO M0-00 FOR GENERAL MECHANICAL NOTES, SYMBOLS AND LEGENDS.  
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C. PROVIDE CEILING ACCESS PANELS FOR ALL EQUIPMENT, COILS, ETC. THAT ARE LOCATED ABOVE HARD CEILINGS UNLESS NOTED OTHERWISE.

## LEGEND NOTES

1. ROUTE REFRIGERANT PIPING FROM CONDENSING UNIT TO CORRESPONDING AC UNIT, AC-1, IN IT ROOM 1-1460. SIZE AND ROUTE PIPING PER MANUFACTURER'S REQUIREMENTS.
2. ROUTE CONDENSATE DRAIN LINE TO NEAREST FLOOR SINK.
3. PROVIDE NEW VALVES AS SHOWN ON CHILLED WATER AND HEATING WATER DETAILS.
4. REFER TO DETAIL 3M07-04 FOR HUMIDIFICATION SYSTEM REQUIREMENTS.
5. PROVIDE NEW PRESSURE REDUCING VALVE STATION.



① FLOOR PLAN - LEVEL 02 - HVAC PIPING  
1/8" = 1'-0"



LEVEL 2 - KEYPLAN

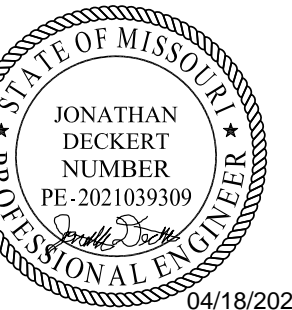
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FACILITY NUMBER:  
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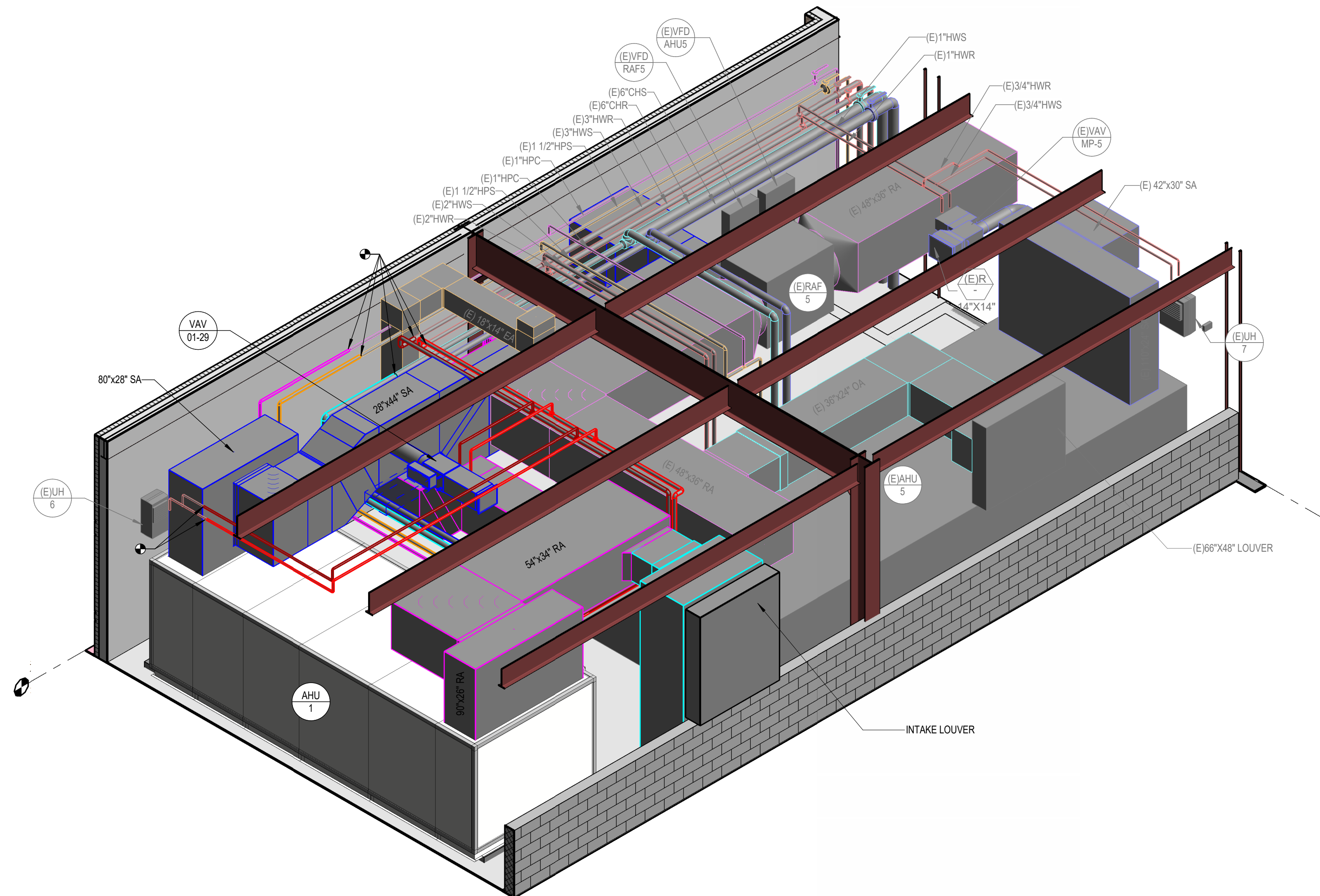
AGENCY APPROVALS:  
AGENCY

REVISIONS		
EV #	DESCRIPTION	DATE

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REVIEWED:  
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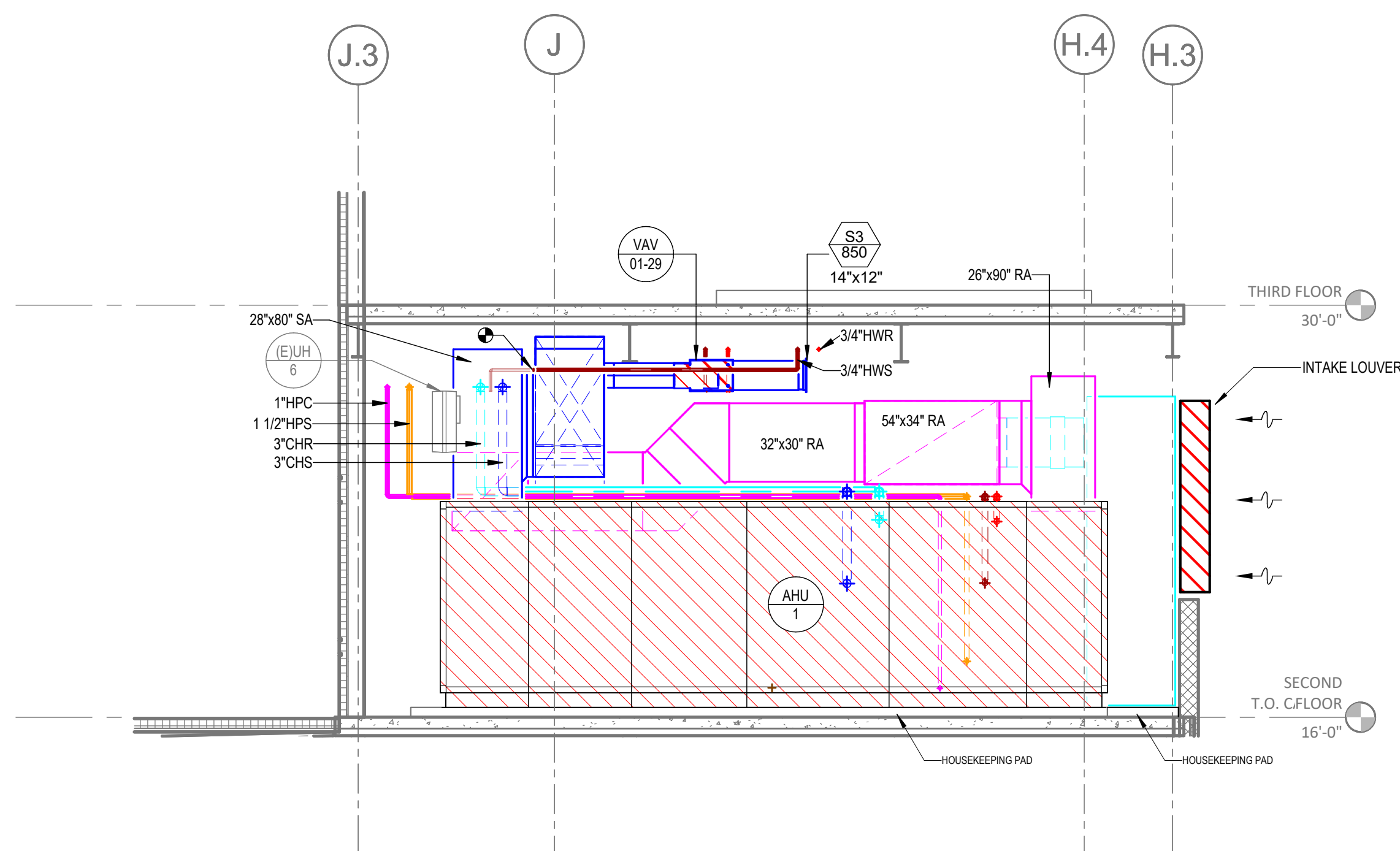
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M05-01

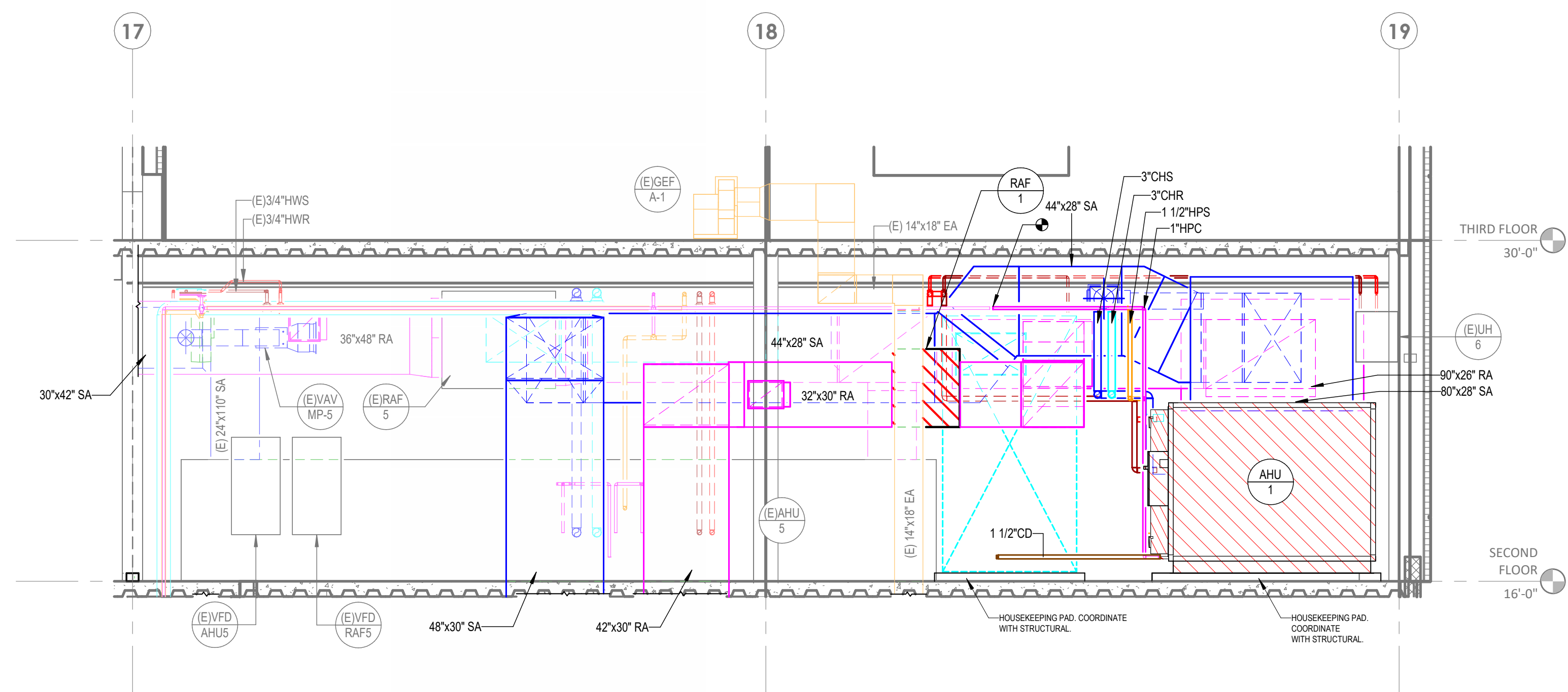


**3D VIEW AND SECTION  
VIEWS PROVIDED  
FOR REFERENCE ONLY**

③ MECH ROOM - 3D



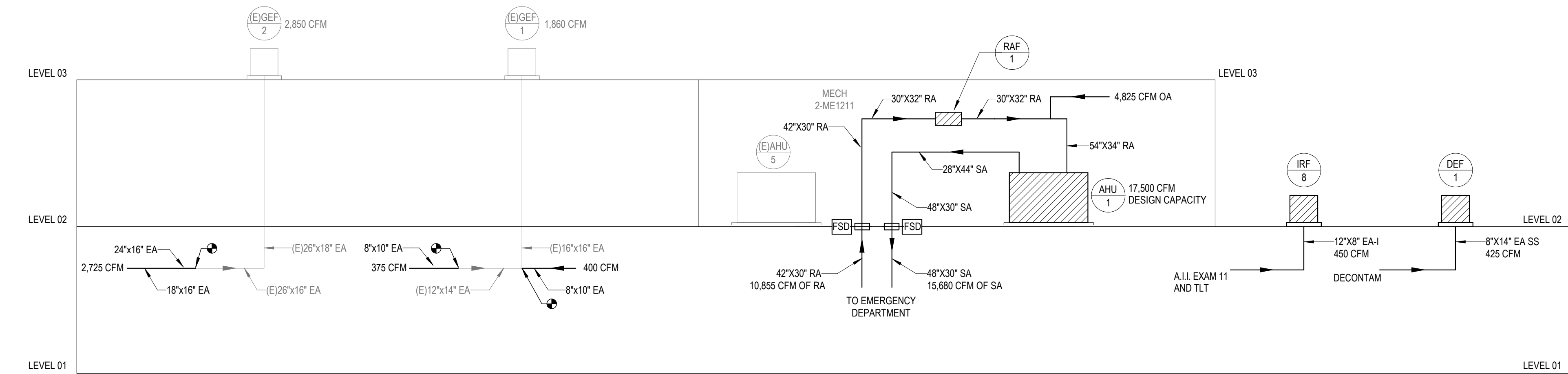
② MECH ROOM SECTION - 2  
1/4" = 1'-0"



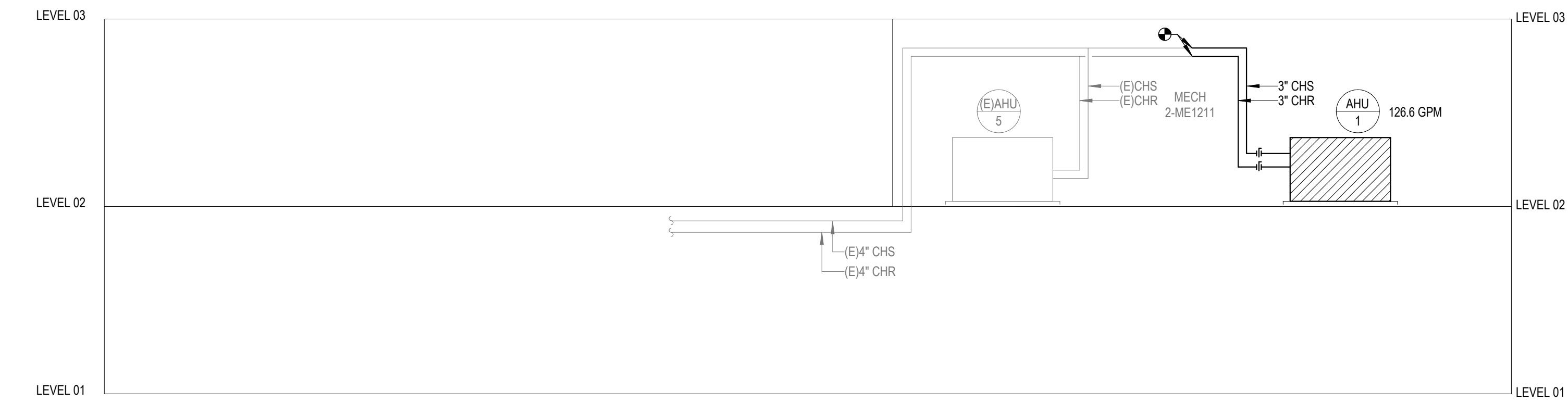
① MECH ROOM SECTION - 1  
1/4" = 1'-0"

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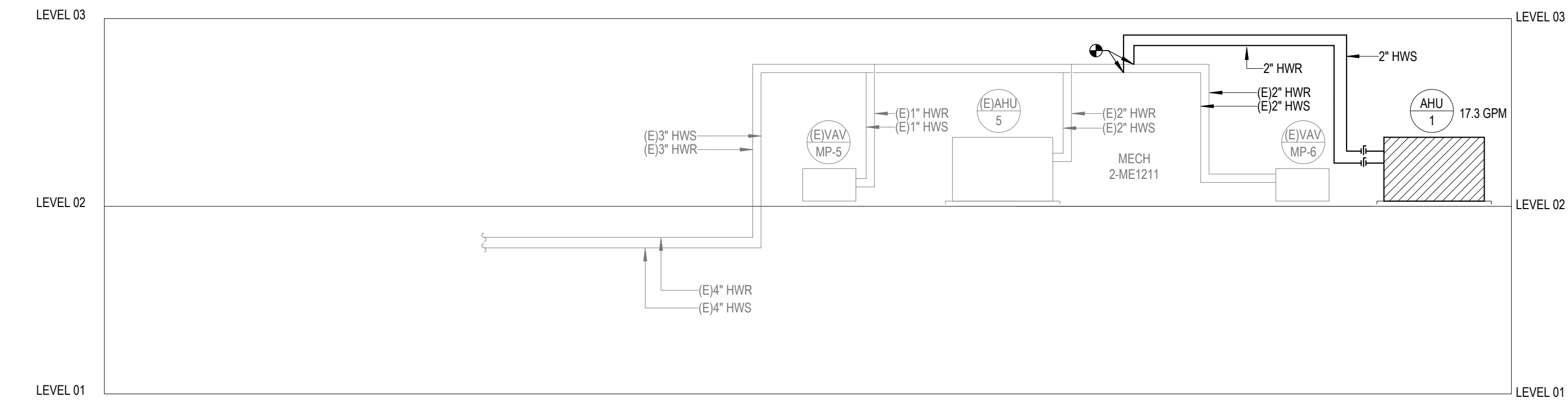




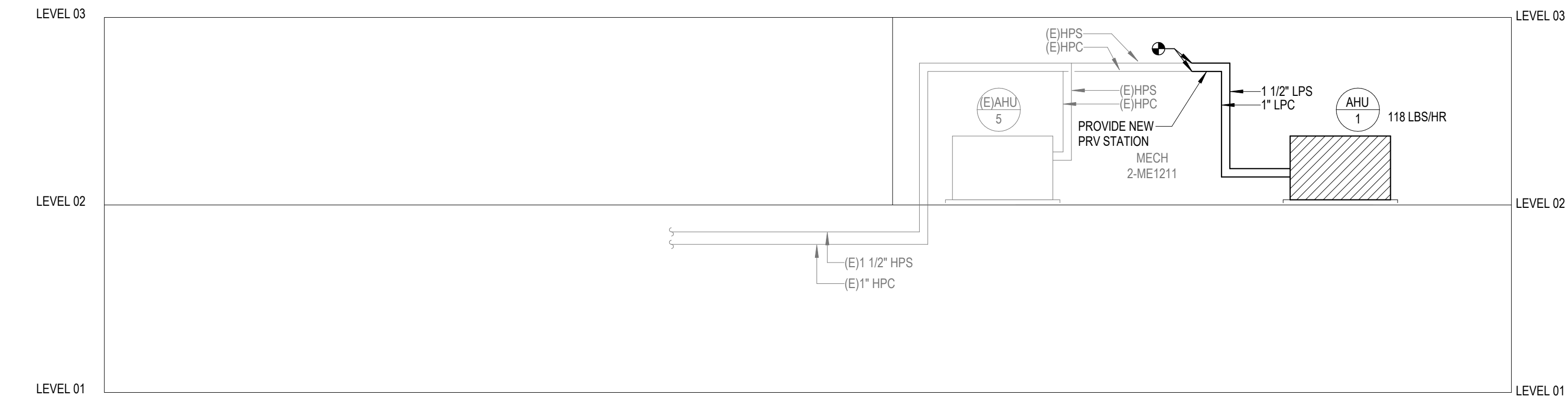
④ AIR RISER DIAGRAM  
1/8" = 1'-0"



③ CHILLED WATER RISER DIAGRAM  
1/8" = 1'-0"



② HEATING HOT WATER RISER DIAGRAM  
1/8" = 1'-0"



① STEAM HUMIDIFIER RISER DIAGRAM  
1/8" = 1'-0"



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04/18/2025  
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## ED EXPANSION

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MISSOURI DHSS

FACILITY NUMBER:  
0972400011

AGENCY APPROVALS:  
AGENCY

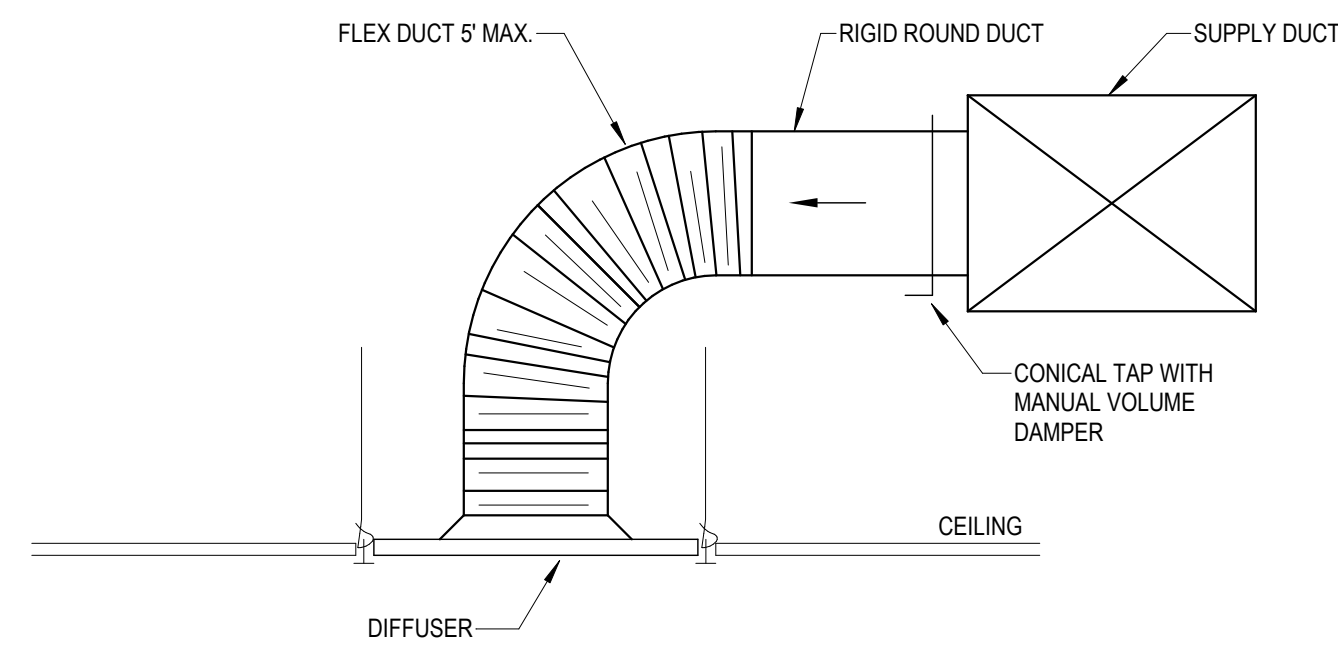
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REV #	DESCRIPTION	DATE

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REVIEWED: JD  
JOB NUMBER: U50040241.3707

RISER DIAGRAM -  
MECHANICAL

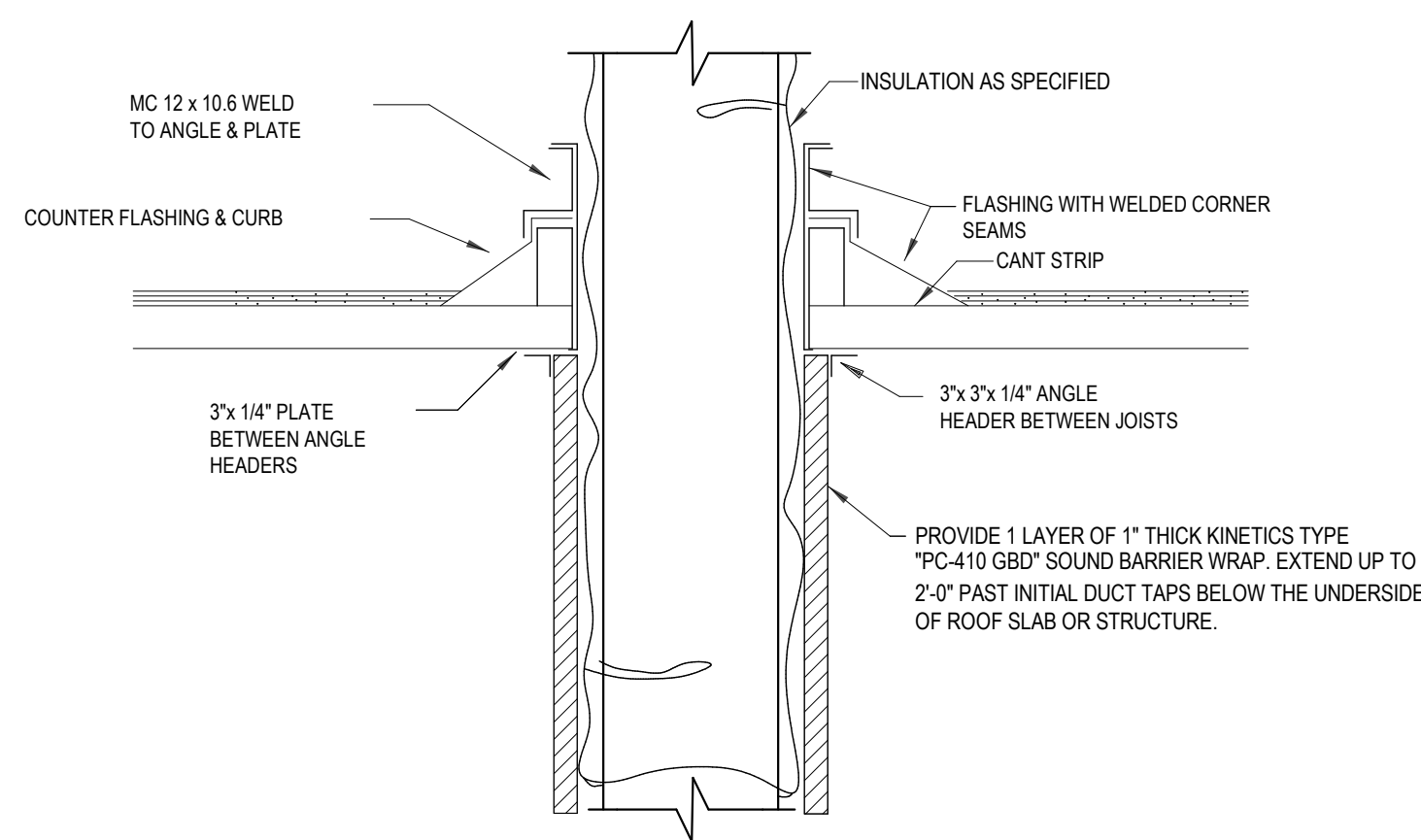
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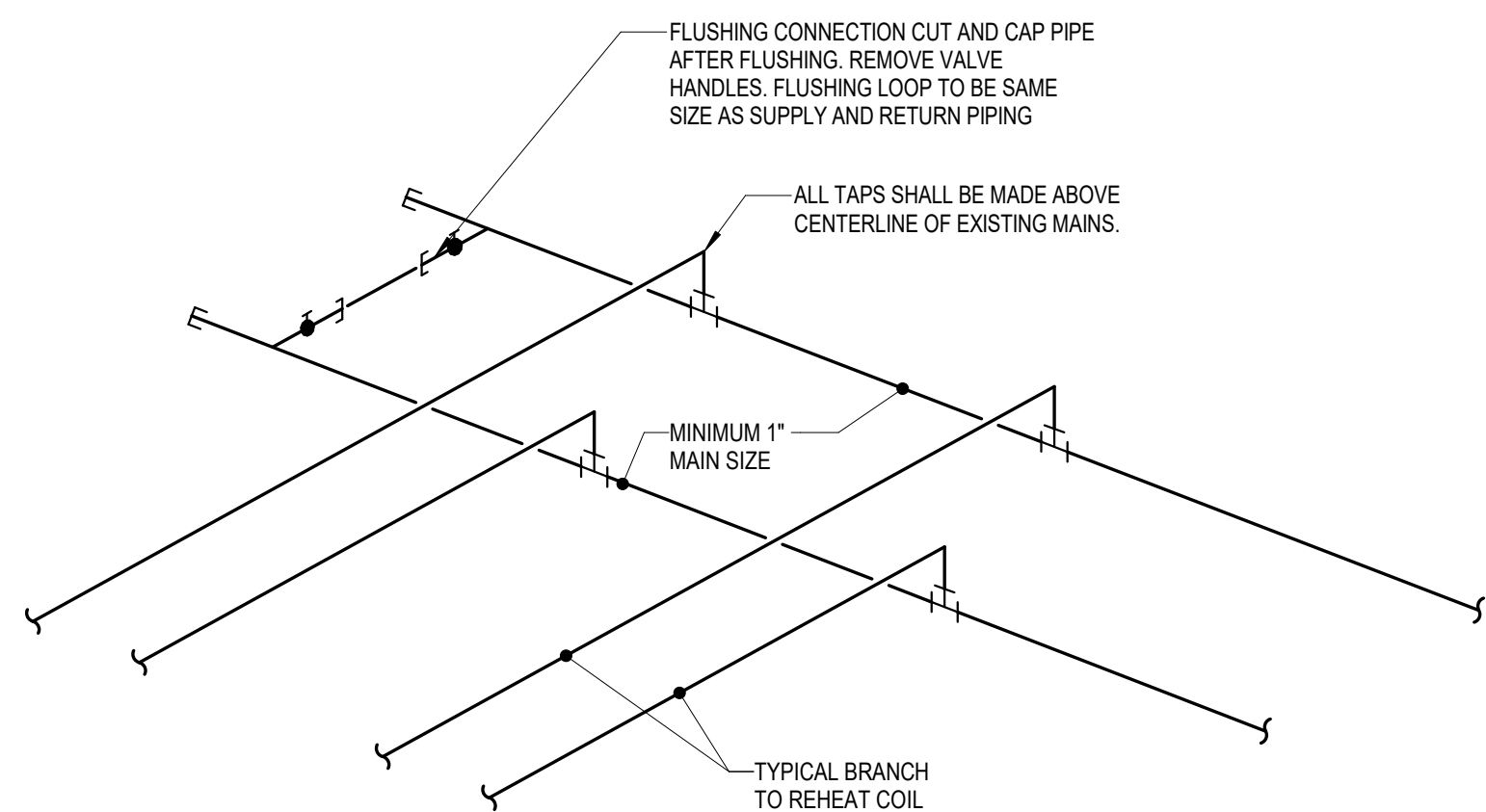


GENERAL NOTE:  
A. FLEX DUCT NOT ALLOWED IN EXPOSED LOCATIONS OR IN INACCESSIBLE CONCEALED LOCATIONS.

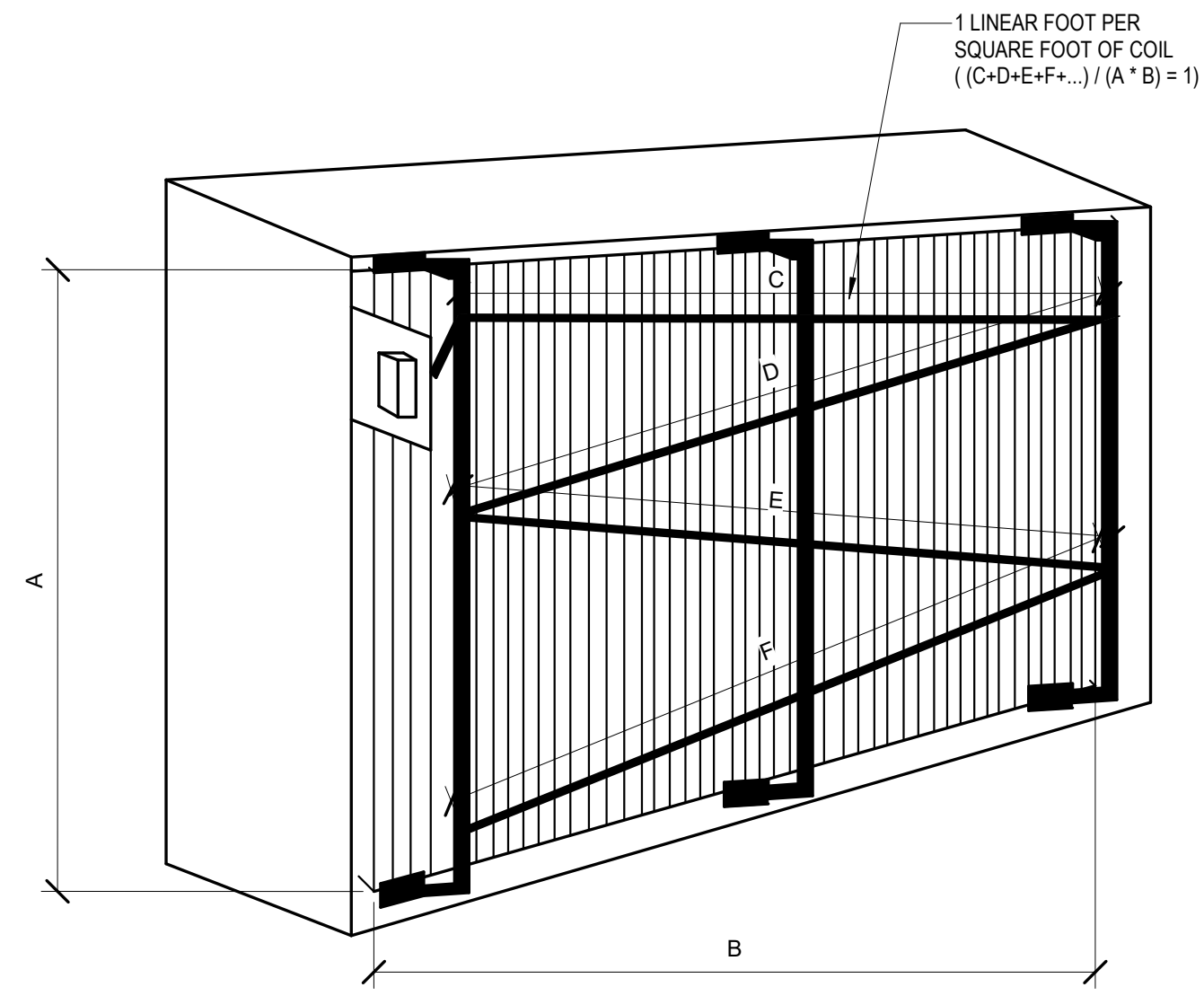
7 DIFFUSER CONNECTION ROUND RUNOUT  
NOT TO SCALE



6 DUCT THROUGH ROOF WITH SOUND LAGGING  
NOT TO SCALE



5 HVAC REHEAT HOT WATER END OF MAIN FLUSHING DETAIL  
NOT TO SCALE



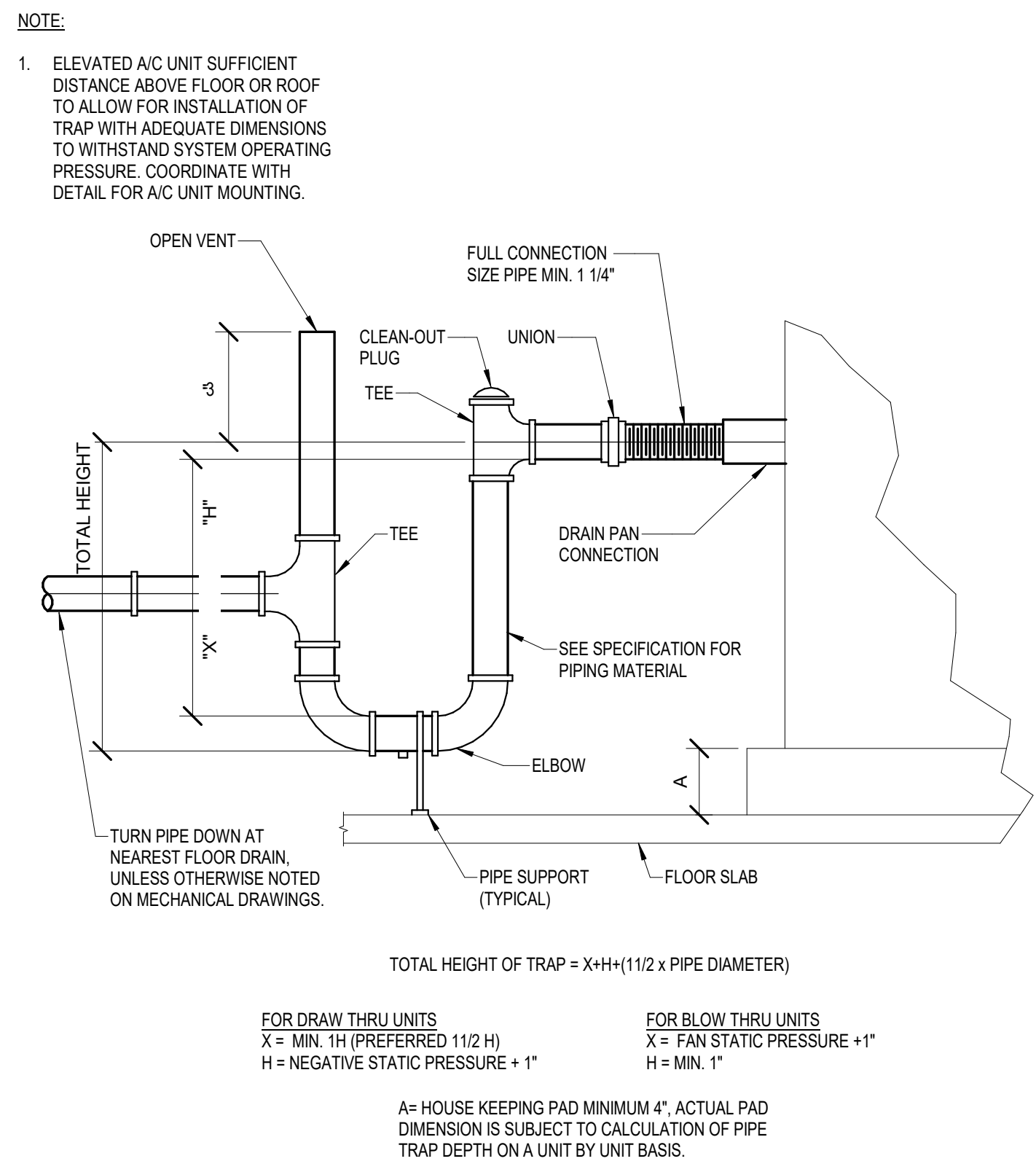
SECURE THE SENSOR ELEMENT BY PROVIDING AND ARAY TO SUPPORT THE CAPILARY TUBE ACROSS THE FACE OF THE COIL

IF DISSIMILAR METALS ARE USED IN THIS PROCESS ENSURE THE ELEMENTS IS SECURED AND ISOLATED TO PREVENT DAMAGE TO THE CAPILARY AT ALL JUNCTIONS.

ENSURE THE COIL IS PROPERLY COVERED BY PROVIDING 1 LINEAR FOOT FOR EACH SQUARE FOOT OF COIL AREA I.E. IF THE COIL IS 2'x4' THE TOTAL AREA IS 8 SQUARE FEET WHICH WOULD RESULT IN AN 8' CAPILARY LENGTH PROPERLY SPACED TO PROVIDE COVERAGE.

THERE SHOULD BE ADEQUATE SPACE BETWEEN THE COIL AND ELEMENT, TO ALLOW FOR COIL CLEANING WITHOUT REMOVING THE CAPILARY TUBE.

4 MIXED AIR SENSOR INSTALLATION  
NOT TO SCALE

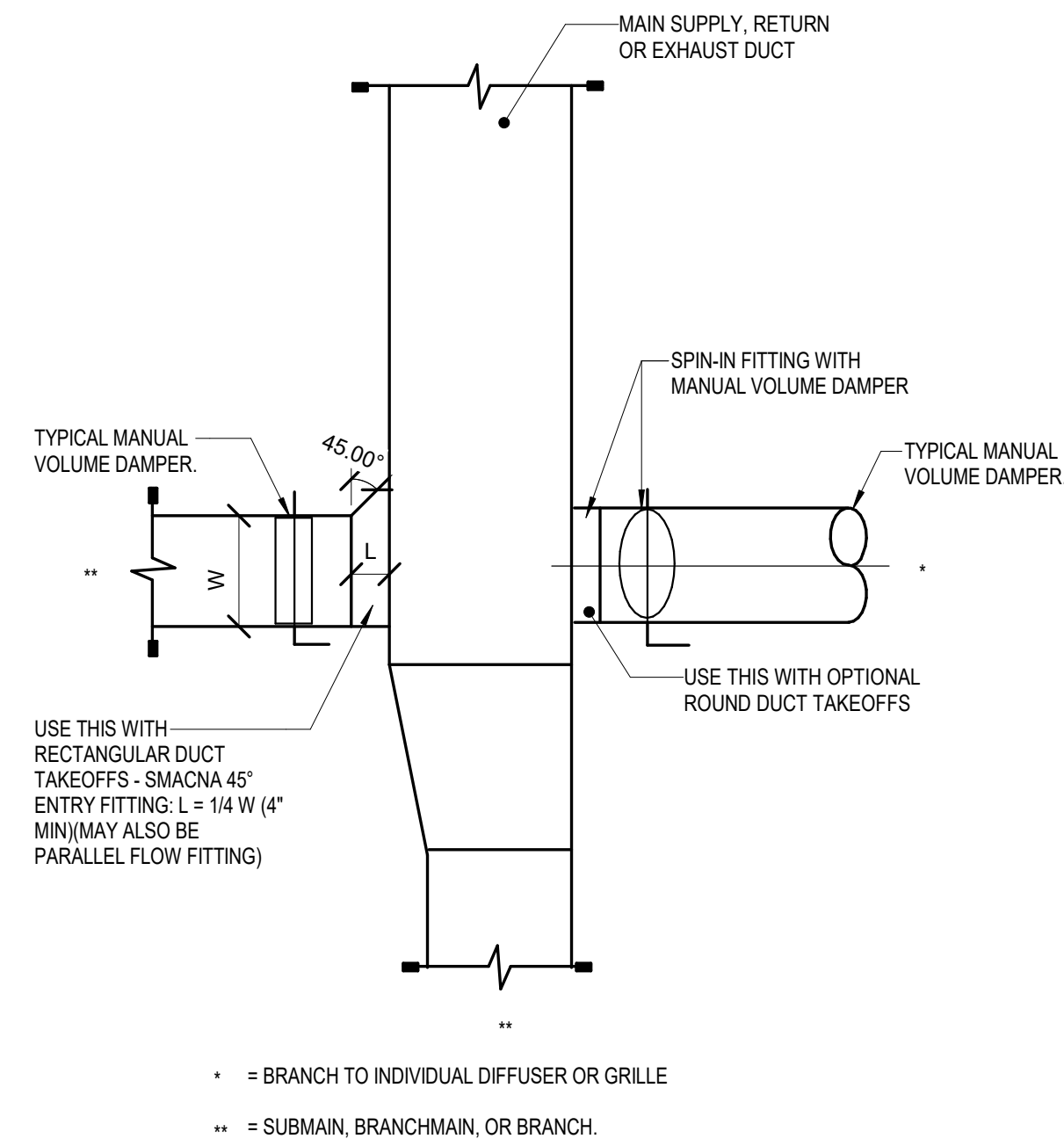


NOTE:  
1. ELEVATED A/C UNIT SUFFICIENT DISTANCE ABOVE FLOOR OR ROOF TO ALLOW FOR INSTALLATION OF TRAP WITH ADEQUATE DIMENSIONS TO WITHSTAND SYSTEM OPERATING PRESSURE. COORDINATE WITH DETAIL FOR A/C UNIT MOUNTING.

FOR DRAW THRU UNITS  
X = MIN. 1" (PREFERRED 1 1/2\"/>

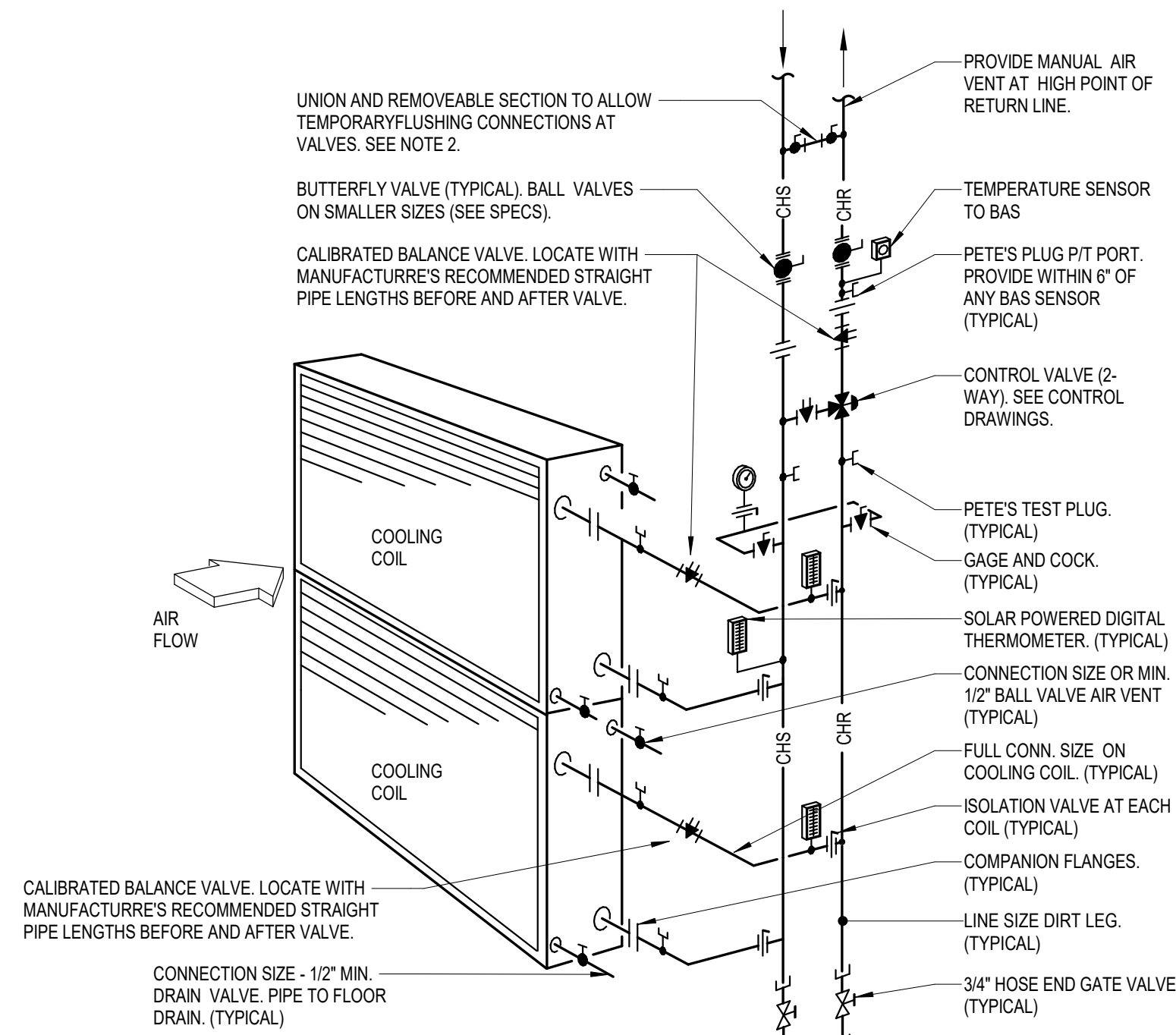
A= HOUSE KEEPING PAD MINIMUM 4\"/>

3 COOLING COIL CONDENSATE DRAIN  
NOT TO SCALE



\* = BRANCH TO INDIVIDUAL DIFFUSER OR GRILLE  
\*\* = SUBMAIN, BRANCHMAIN, OR BRANCH.

2 LOW PRESSURE DUCT VOLUME DAMPER REQUIREMENTS  
NOT TO SCALE



NOTES:  
1. WATER SHALL ENTER COIL ON THE AIR LEAVING SIDE. OFFSET PIPING AS SHOWN TO ALLOW COIL PULL ACCESS WITHOUT DISMANTLING VERTICAL RISERS.  
2. PROVIDE MINIMUM 2\"/>

1 CHILLED WATER PIPING AT MULTIPLE COOLING COIL  
NOT TO SCALE

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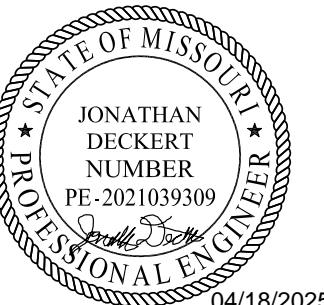
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## ED EXPANSION

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

FACILITY NUMBER:  
0972400011

AGENCY APPROVALS:  
AGENCY

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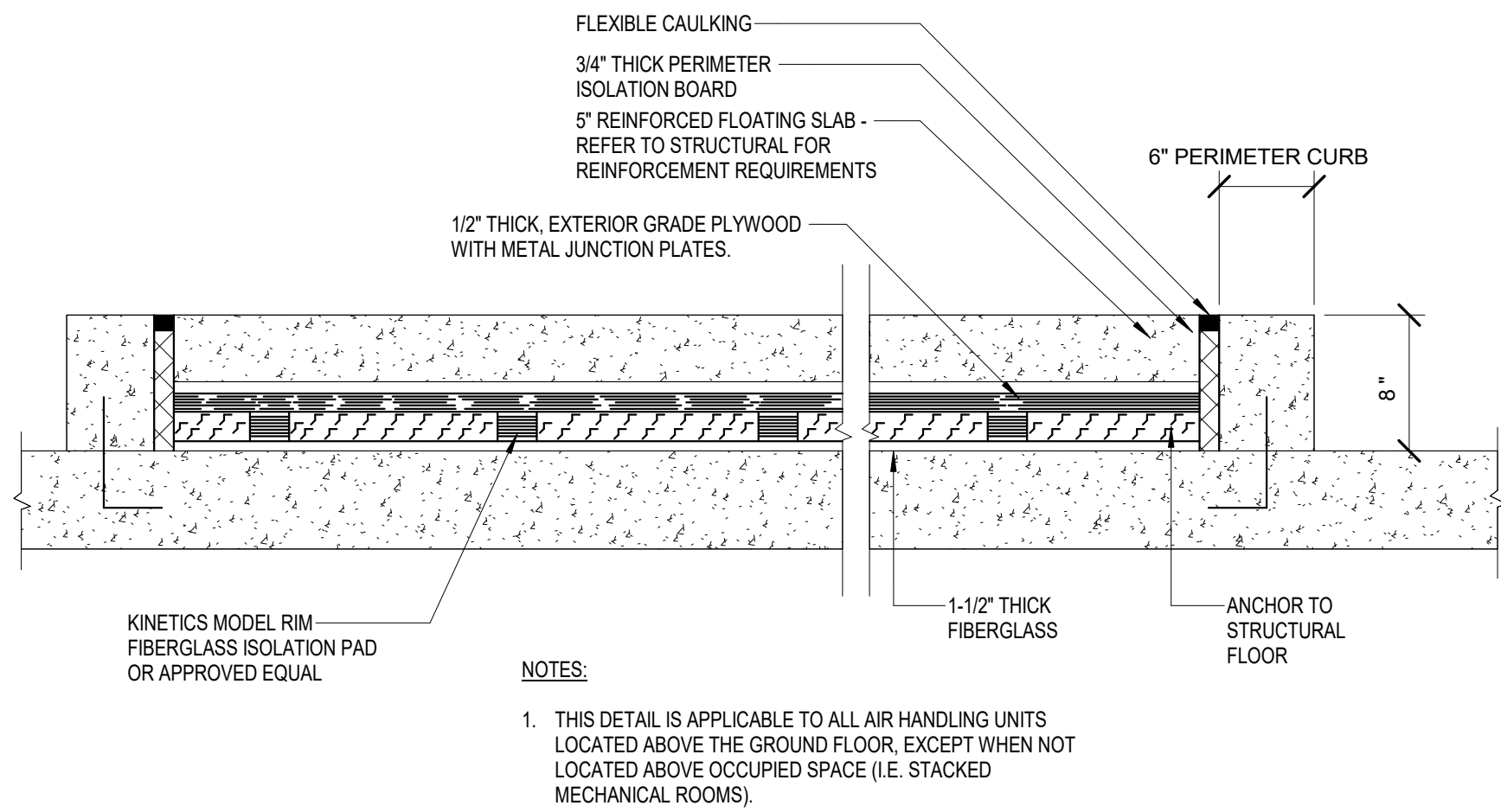
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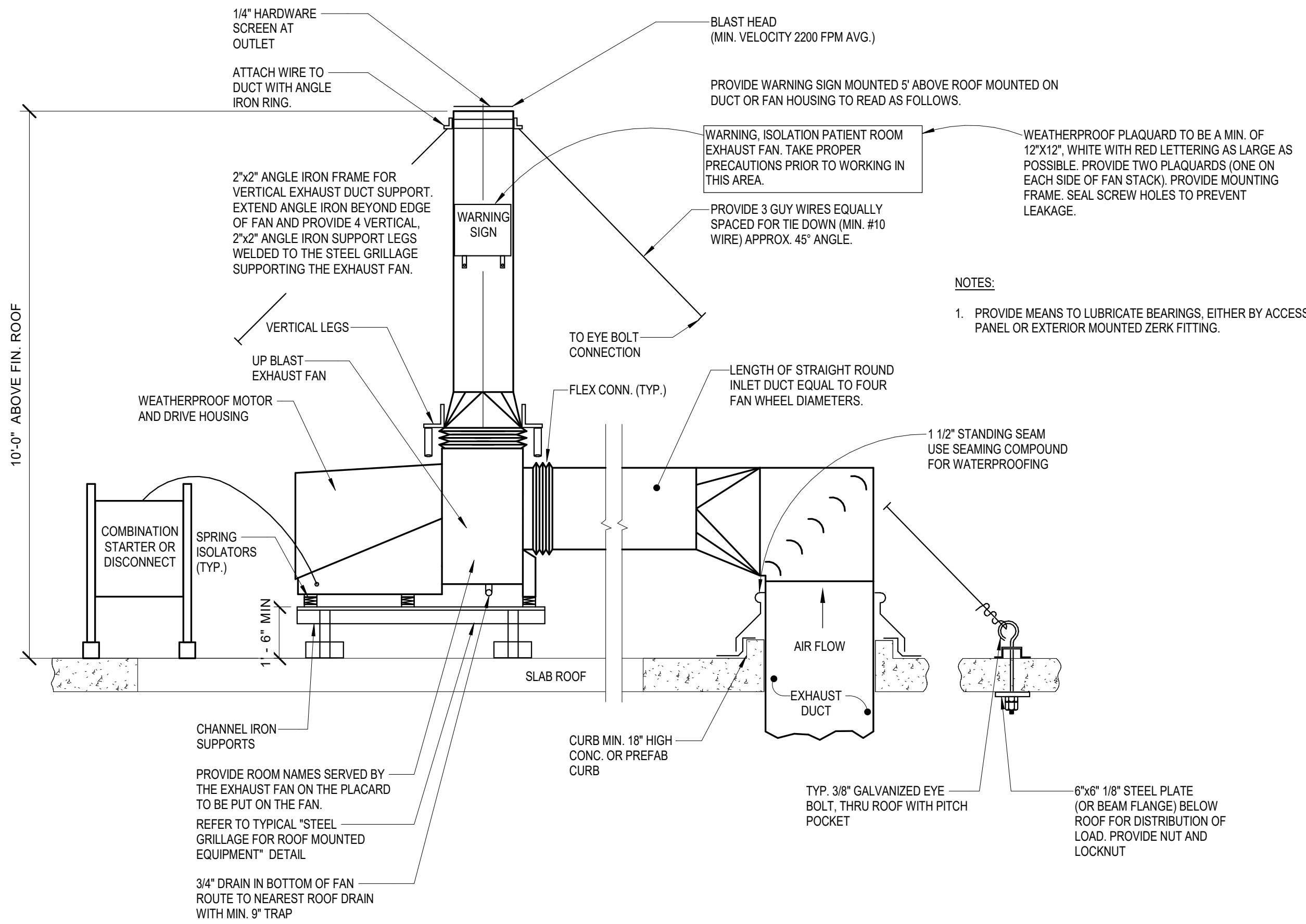
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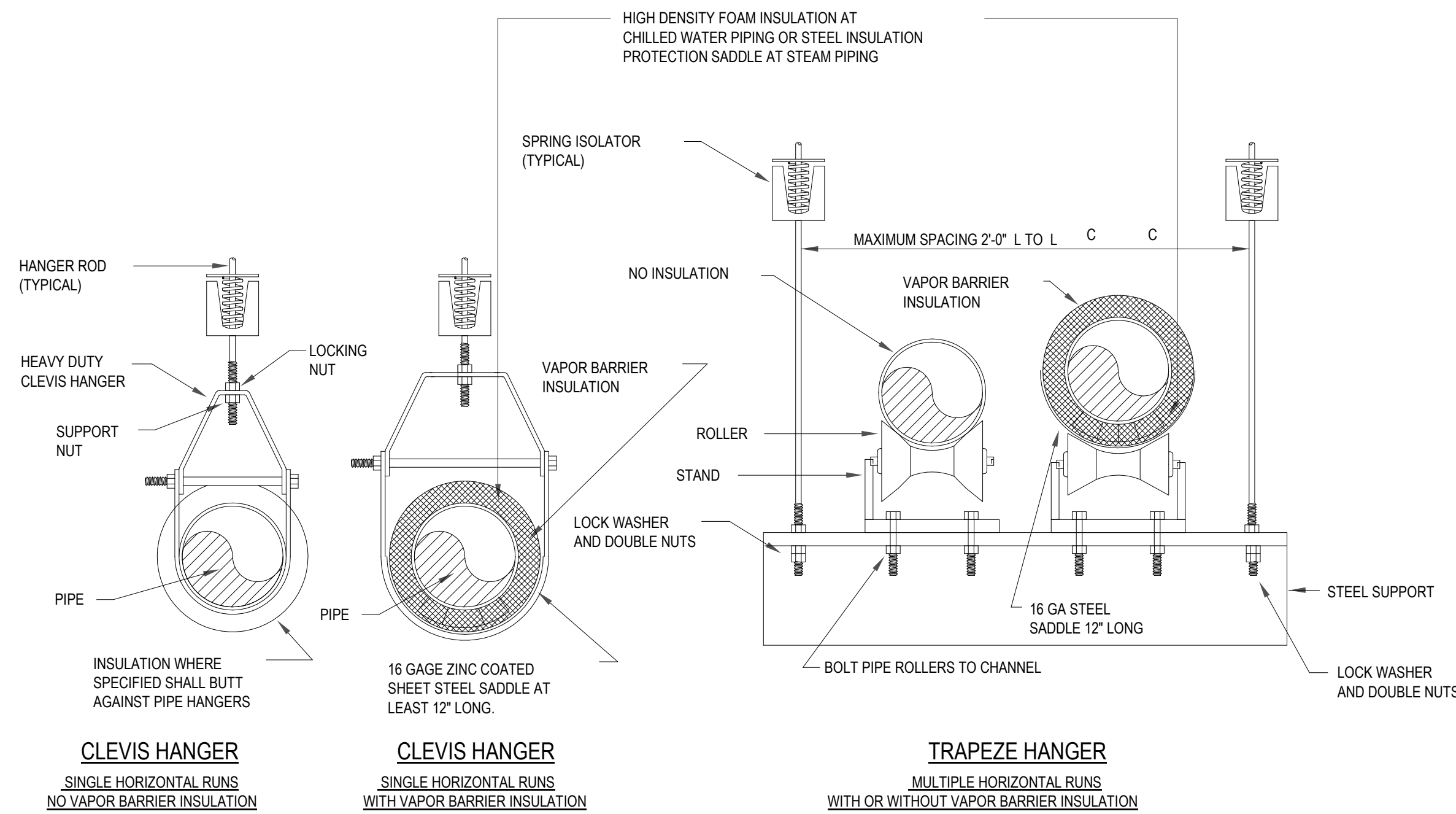




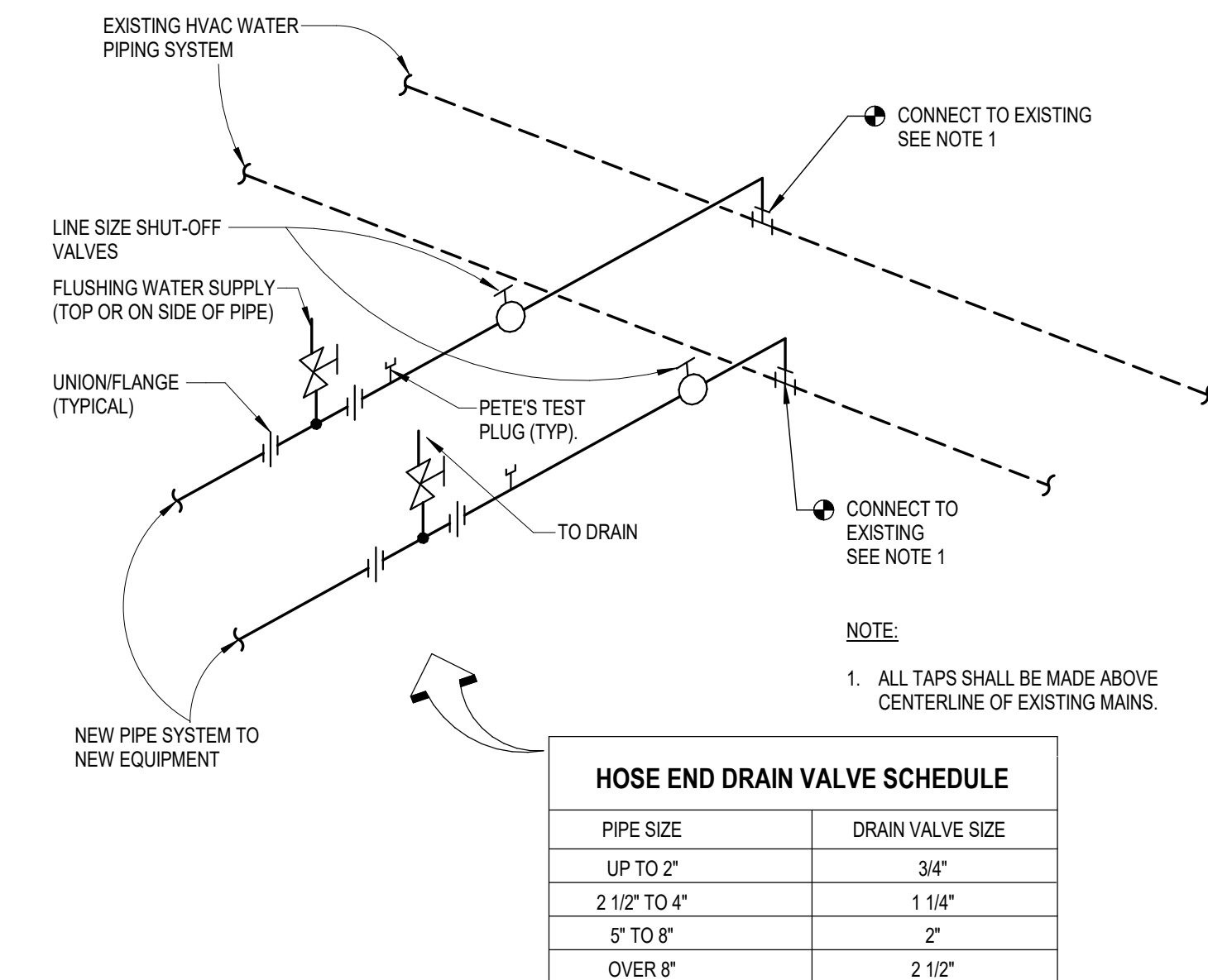
6 BASIC FLOATING EQUIPMENT PAD DETAIL  
NOT TO SCALE



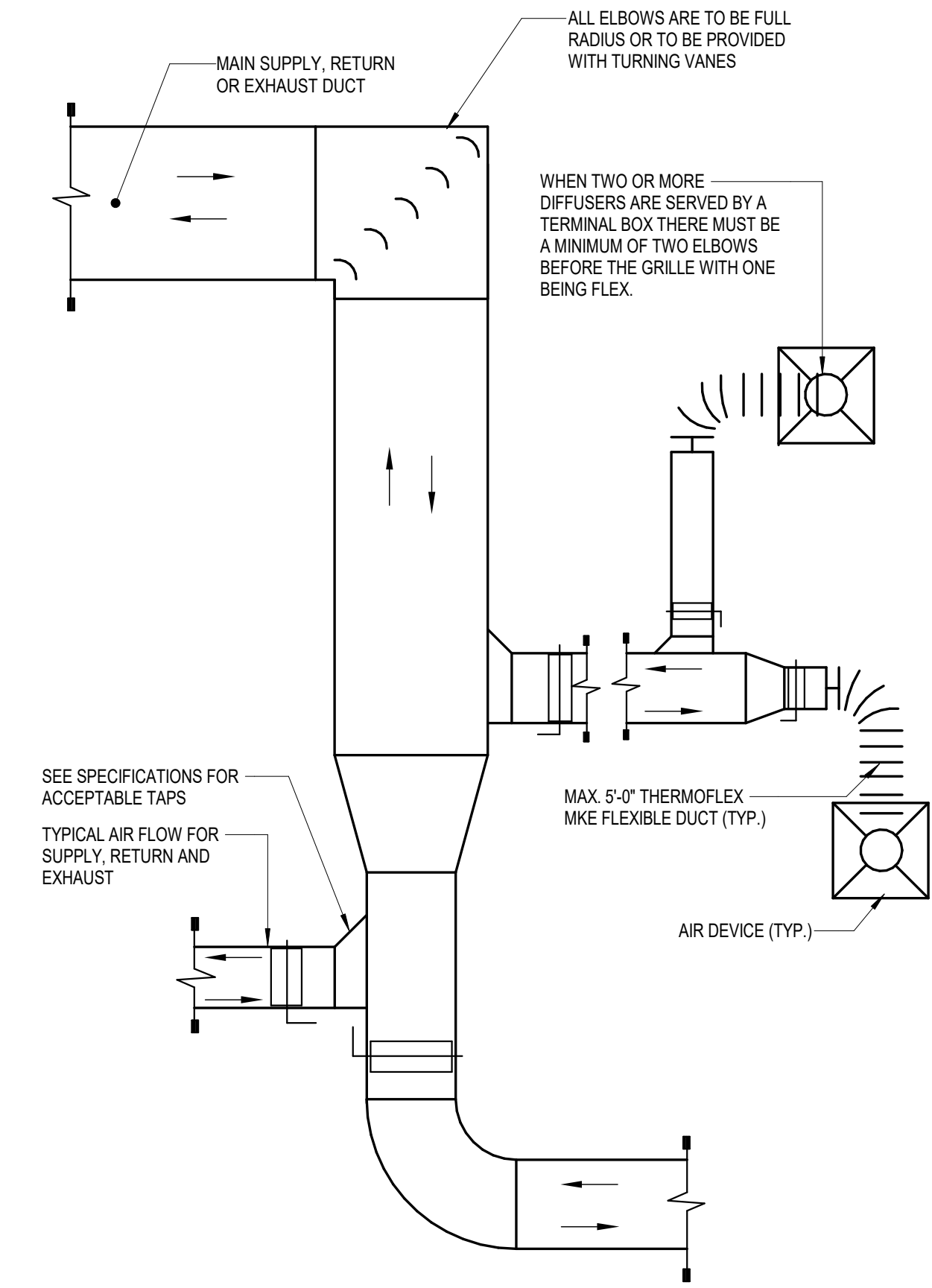
5 ROOF MOUNTED VENT SET  
NOT TO SCALE



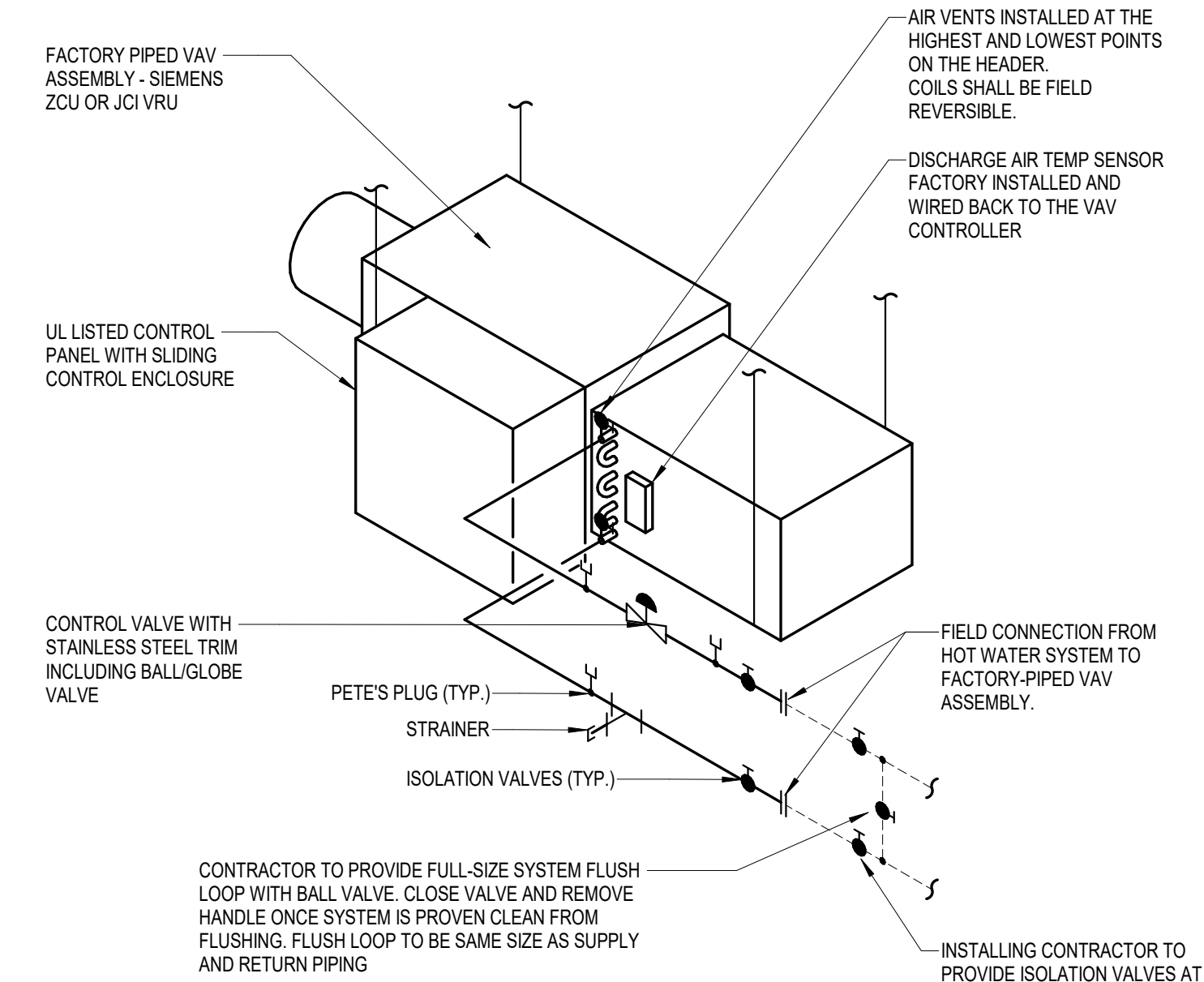
4 PIPING SUPPORT HANGERS  
NOT TO SCALE



3 PIPING CONNECTION DETAIL  
NOT TO SCALE



2 TYPICAL LOW PRESSURE SUPPLY, RETURN AND EXHAUST DUCT DETAIL  
NOT TO SCALE



1 PIPING AT TERMINAL REHEAT  
NOT TO SCALE

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PROFESSIONAL ENGINEER

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AGENCY

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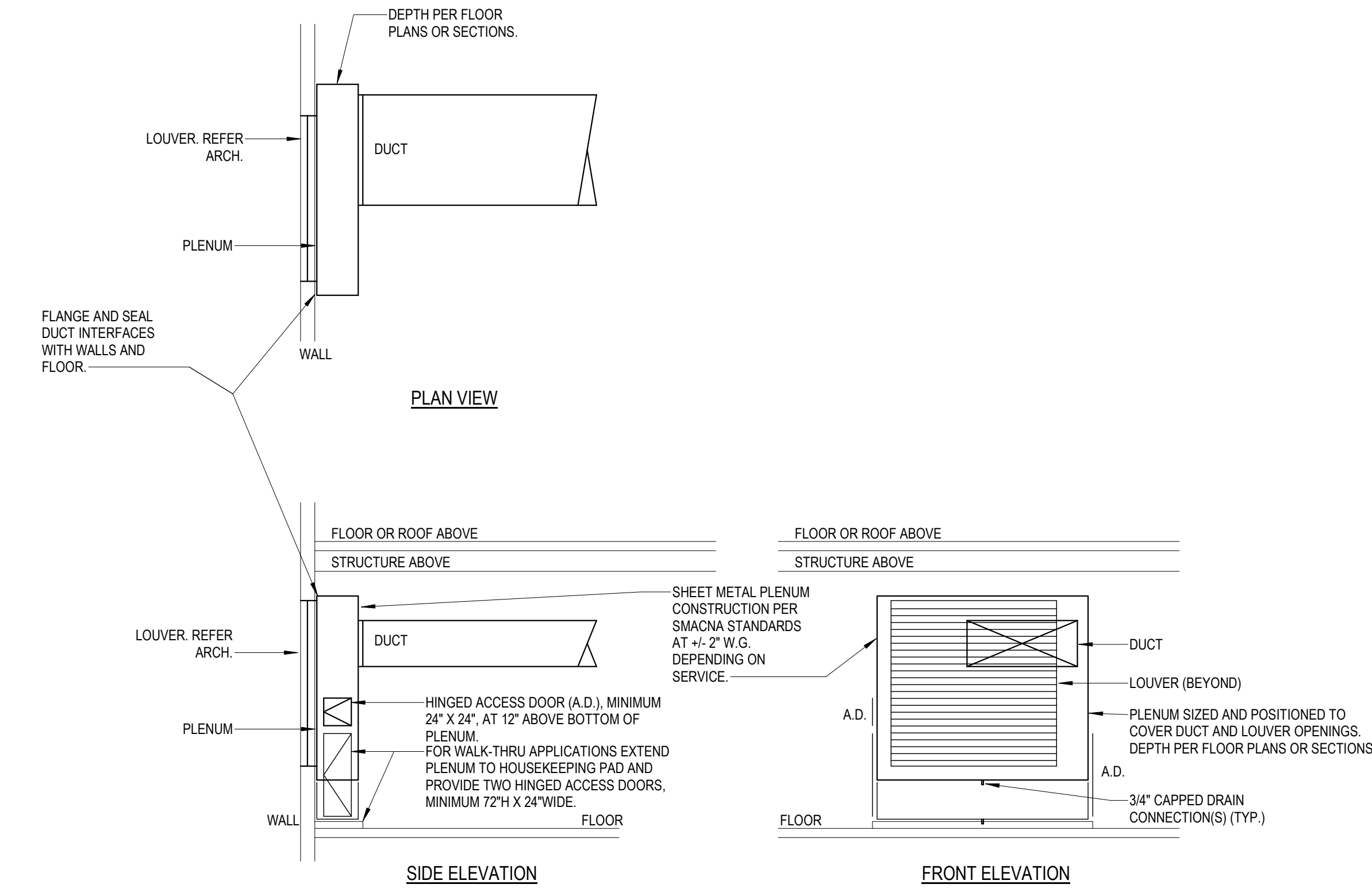
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DETAILS - MECHANICAL

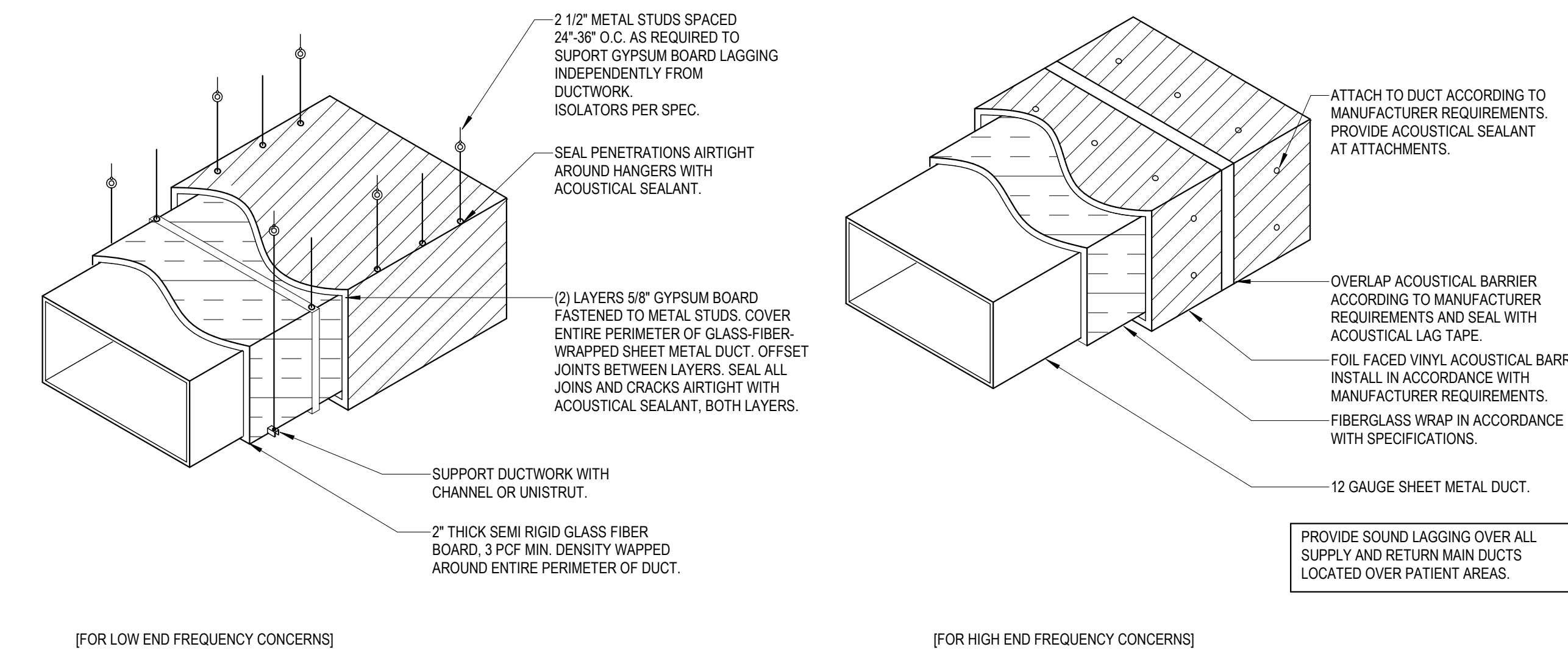
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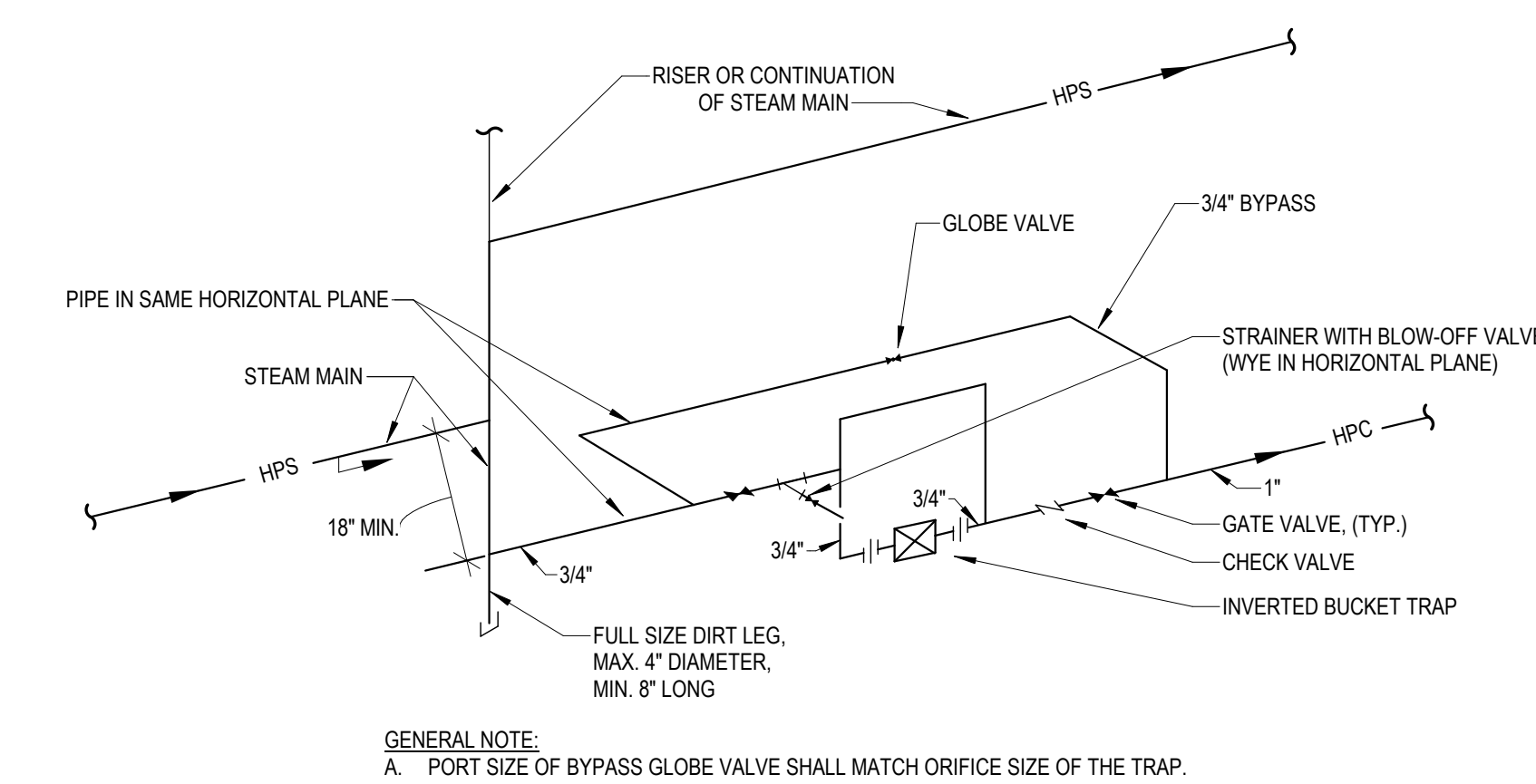




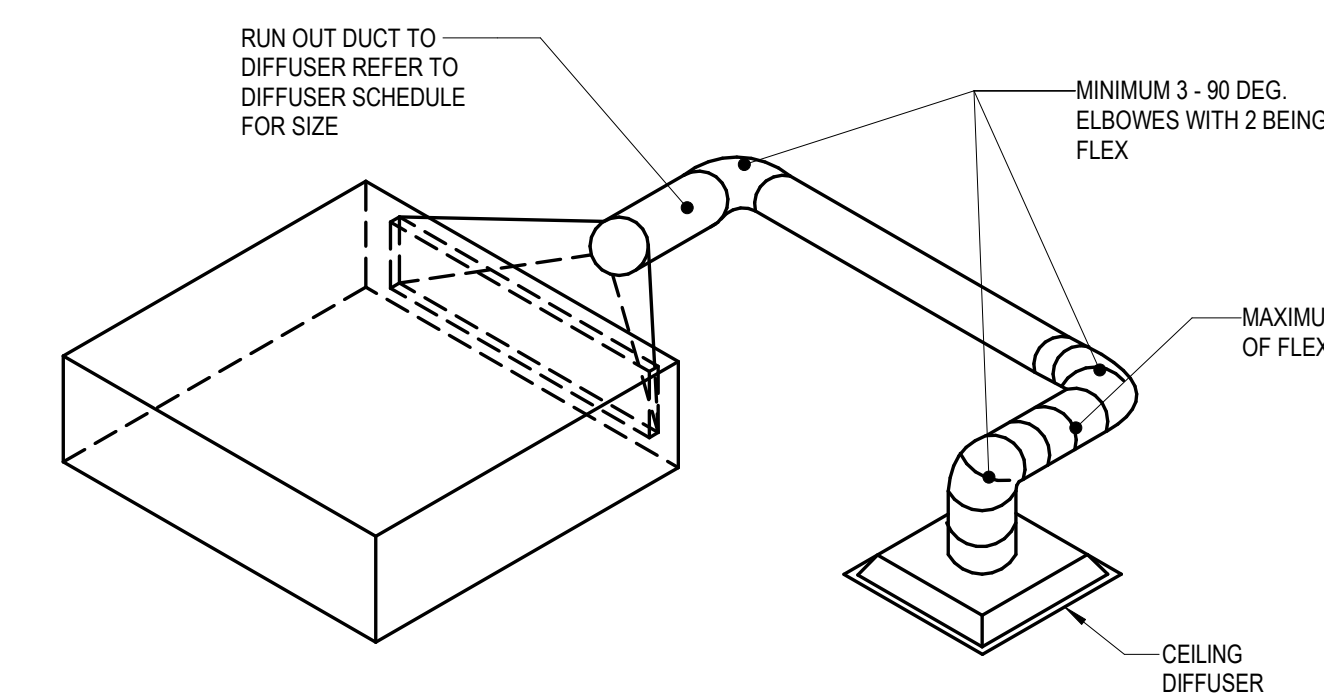
⑥ LOUVER WITH PLENUM AND DUCT CONNECTION  
NOT TO SCALE



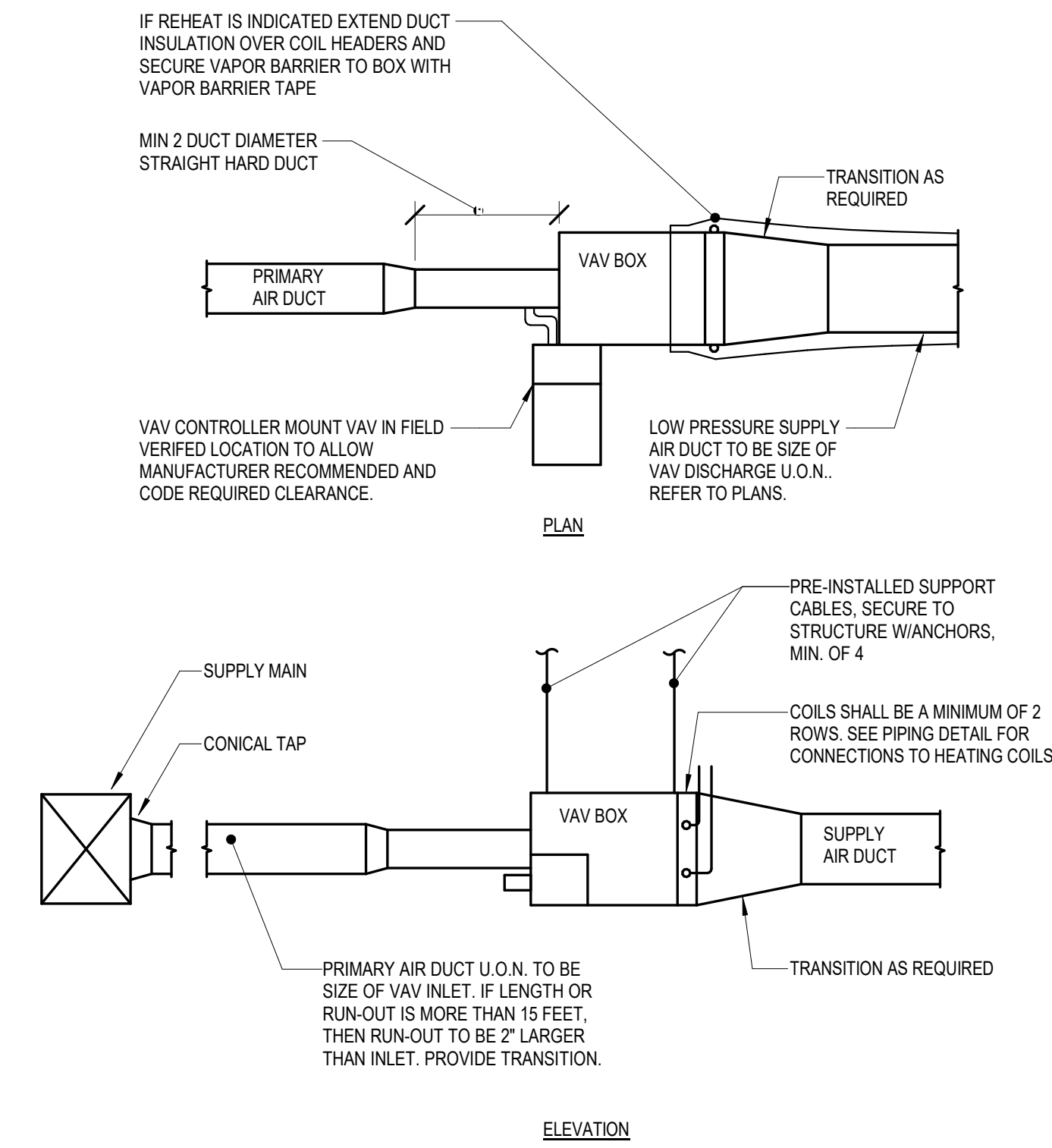
⑤ DUCT SOUND LAGGING DETAIL  
NOT TO SCALE



④ END OF MAIN DRIP HPS PIPING  
NOT TO SCALE

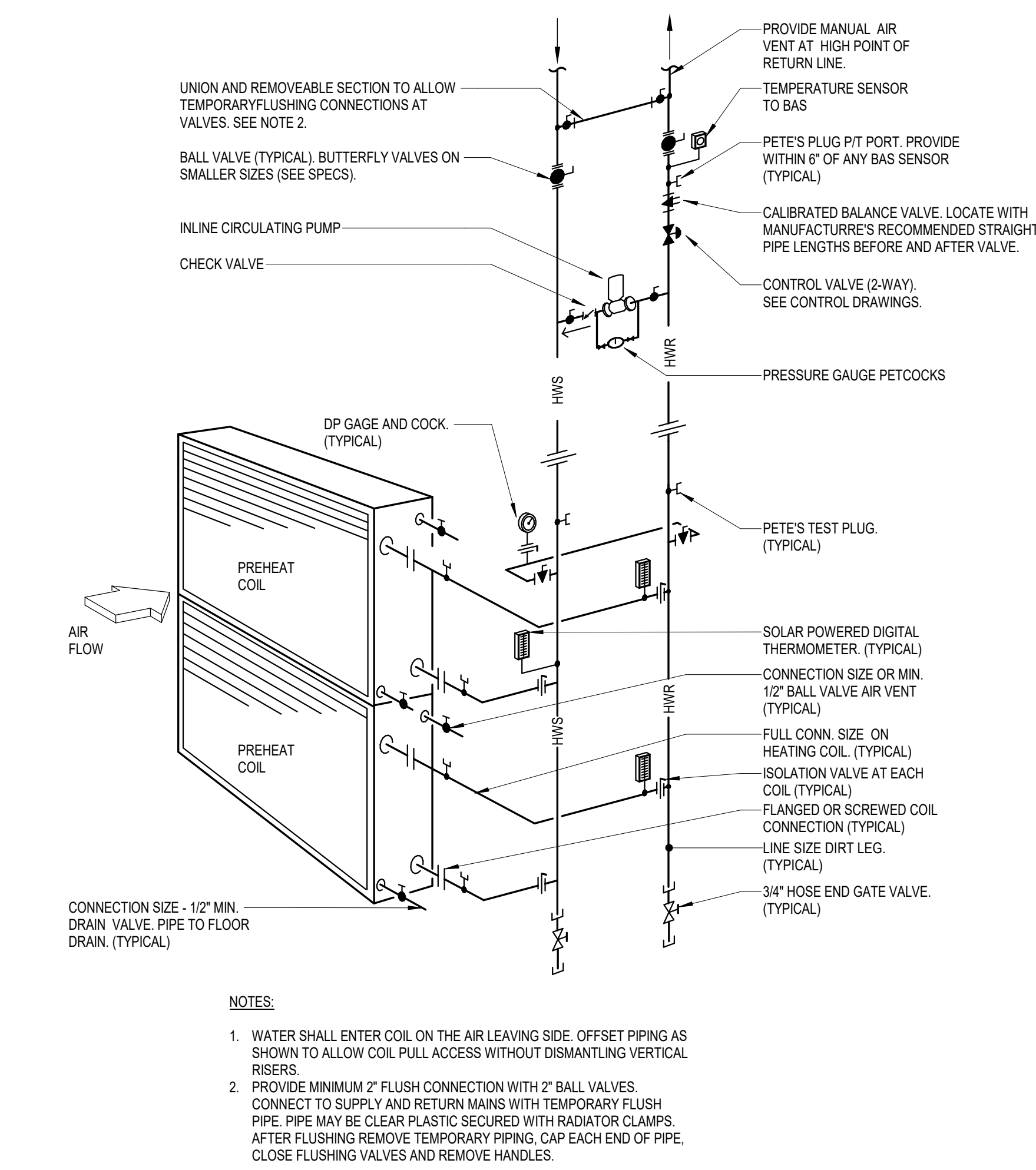


③ VAV BOX SERVING SINGLE DIFFUSER DETAIL  
NOT TO SCALE



- NOTE:
- THIS DETAIL REFERS TO VAV AND CONSTANT VOLUME HOT WATER REHEAT AIR TERMINAL UNITS AND VAV AIR TERMINAL UNITS WITHOUT REHEAT.
  - TAP FITTING TO RECTANGULAR MEDIUM PRESSURE DUCT MAY ALSO BE RECTANGULAR 45° ENTRY. REFER TO DRAWINGS FOR REQUIRED SHOE TAP DUCT SIZES.
  - MEDIUM PRESSURE ROUND TRUNK DUCT TO HAVE CONICAL TEE FITTING, WITH OTHER REQUIREMENTS AS SHOWN.
  - BOXES 1400 CFM OR LESS TO BE SUPPORTED WITH REINFORCING ANGLE WITH 3/8" GALVANIZED ALL THREAD ROD HANGERS.
  - COORDINATE REQUIREMENT FOR CEILING ACCESS PANELS WITH DIVISION 8 AND ARCHITECTURAL RCP.

② VAV BOX INSTALLATION DETAIL  
NOT TO SCALE



① HOT WATER PIPING AT MULTIPLE PREHEAT COIL  
NOT TO SCALE

Devenney  
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STATE OF MISSOURI  
JONATHAN DICKERT  
NUMBER  
PE-2021039309  
Professional Engineer  
04/18/2025  
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

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

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

FACILITY NUMBER:  
0972400011

AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 04/18/25  
SCALE: As indicated  
DRAWN: HO  
REVIEWED: JD  
JOB NUMBER: U50040241.3707

DETAILS - MECHANICAL

M07-03

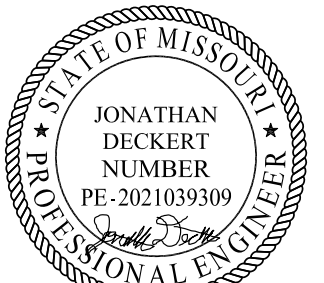
Autodesk Docs // 640624 - HCA - Lee's Summit Medical Center (LSMC) - ED Expansion - R2.3.rvt 4/22/2025 2:27:40 PM A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.



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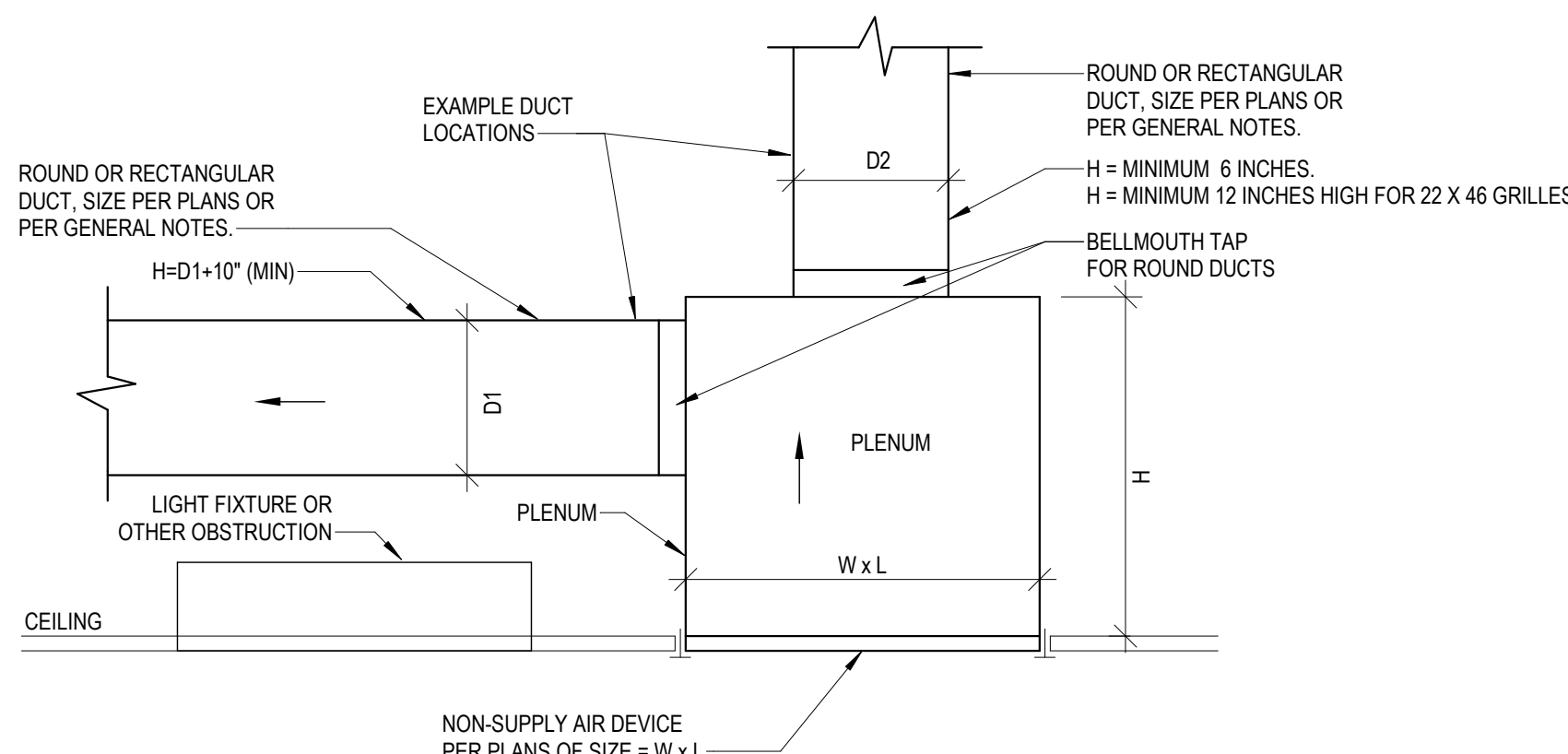
AGENCY APPROVALS:  
AGENCY

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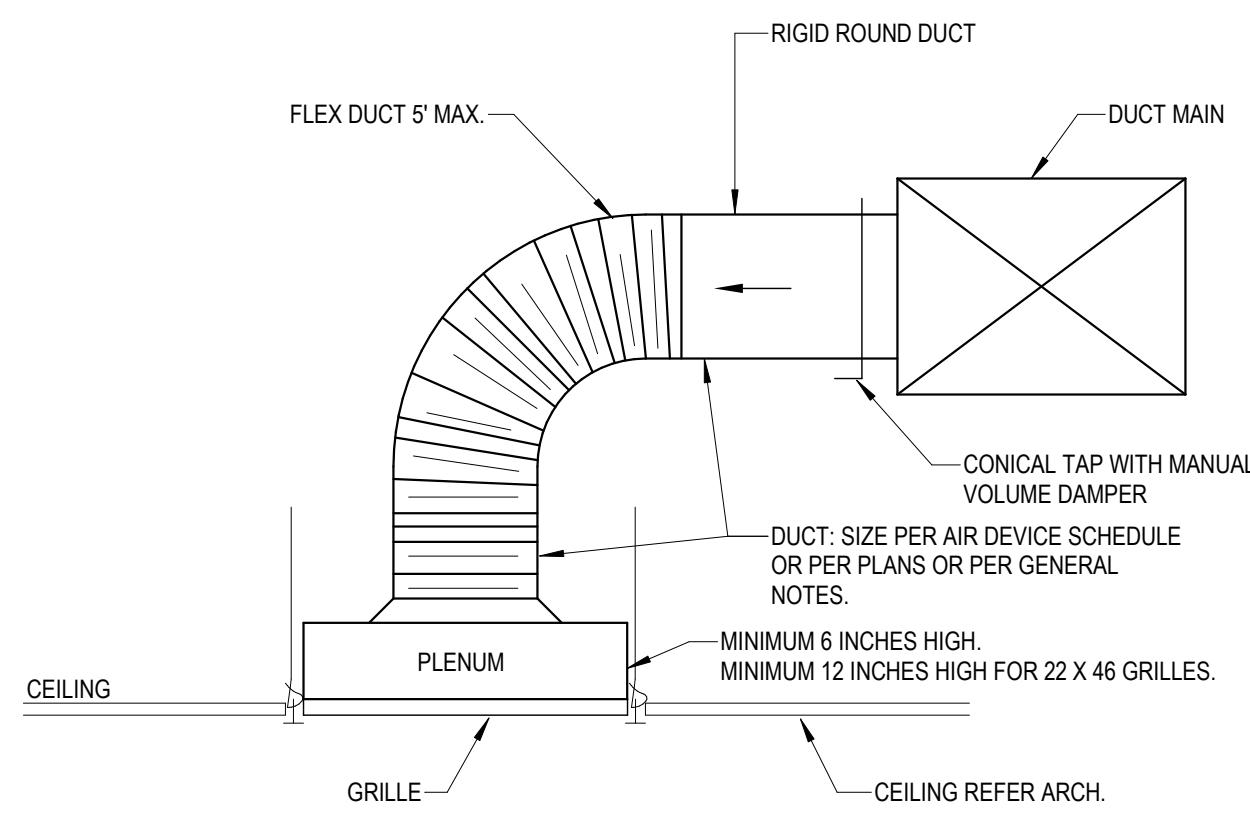
DATE: 04/18/25  
SCALE: NOT TO SCALE  
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## DETAILS - MECHANICAL

M07-04

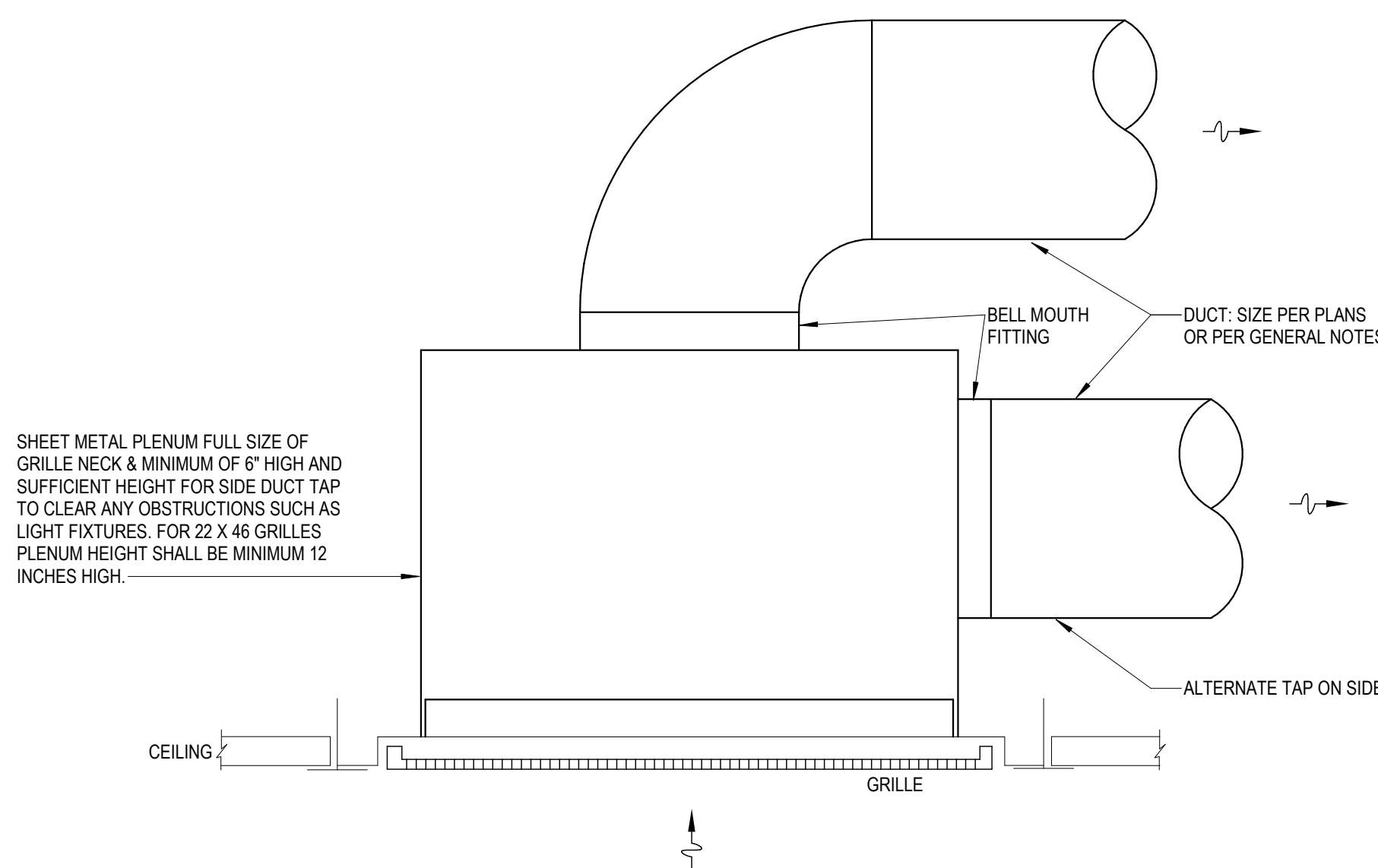


C. GRILLE RETURN OR EXHAUST CONNECTION - ROUND OR RECTANGULAR RUNOUT WITH HARD DUCT

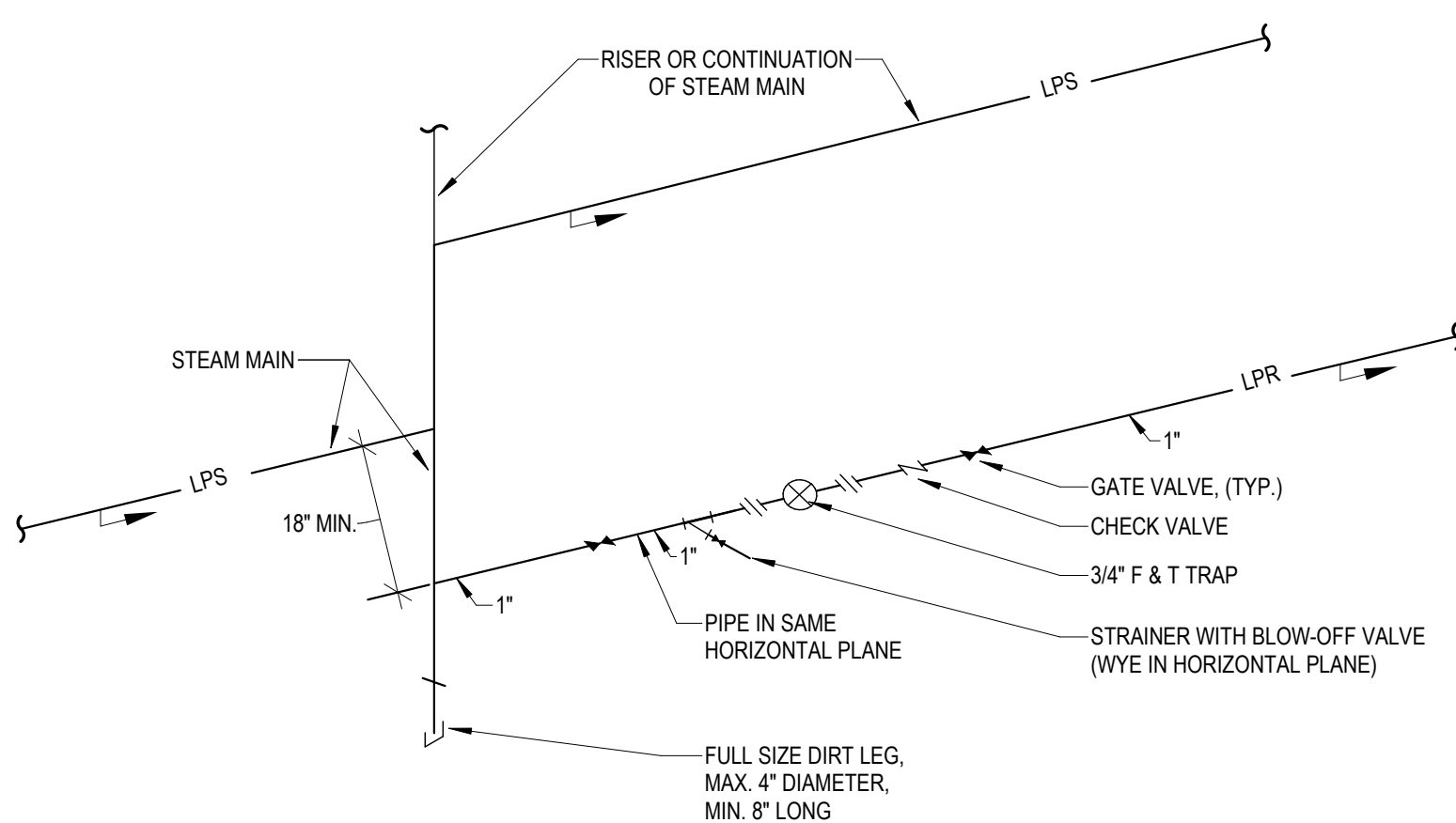


GENERAL NOTE:  
FLEX DUCT NOT ALLOWED IN EXPOSED LOCATIONS OR IN INACCESSIBLE CONCEALED LOCATIONS.

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

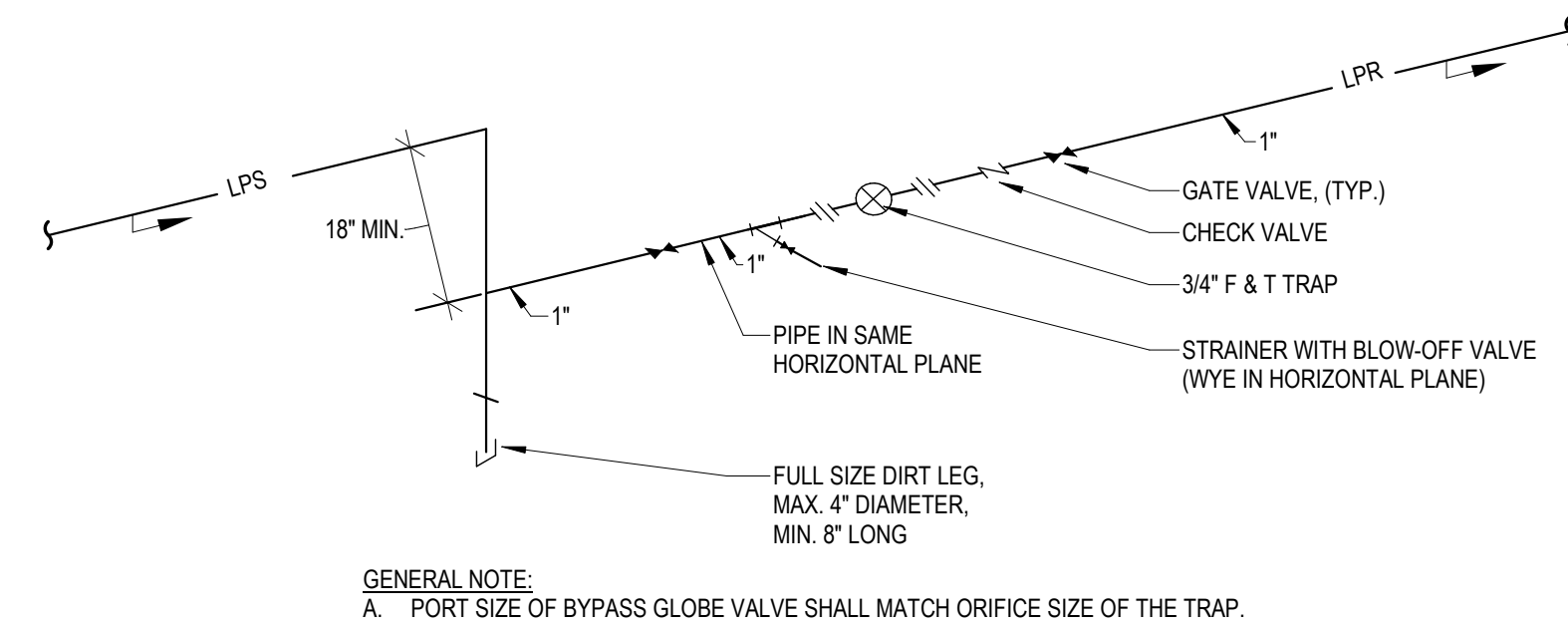


2 GRILLE RETURN OR EXHAUST  
NOT TO SCALE

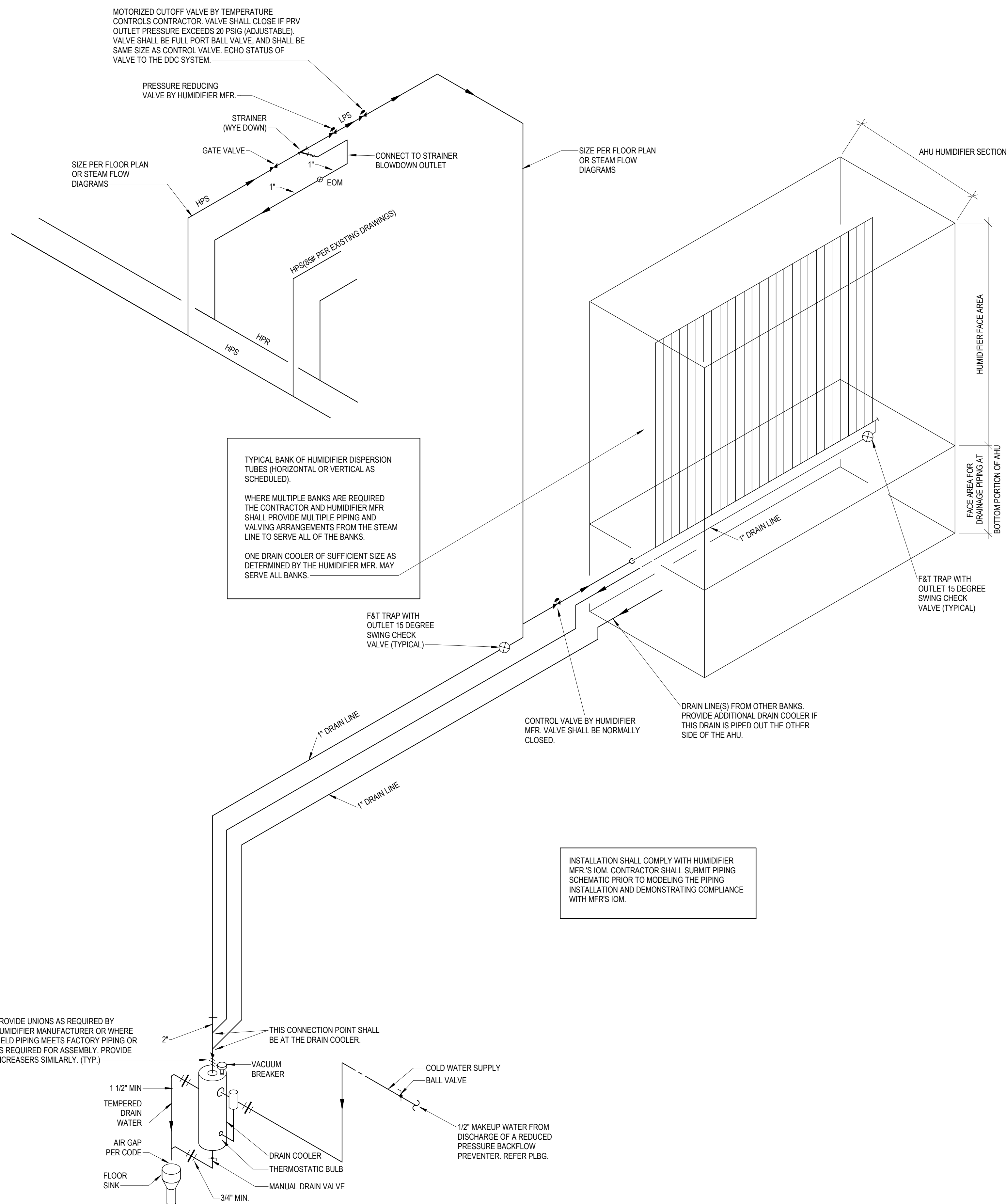


GENERAL NOTE:  
A. PORT SIZE OF BYPASS GLOBE VALVE SHALL MATCH ORIFICE SIZE OF THE TRAP.

1 END OF MAIN DRIP LPS PIPING  
NOT TO SCALE

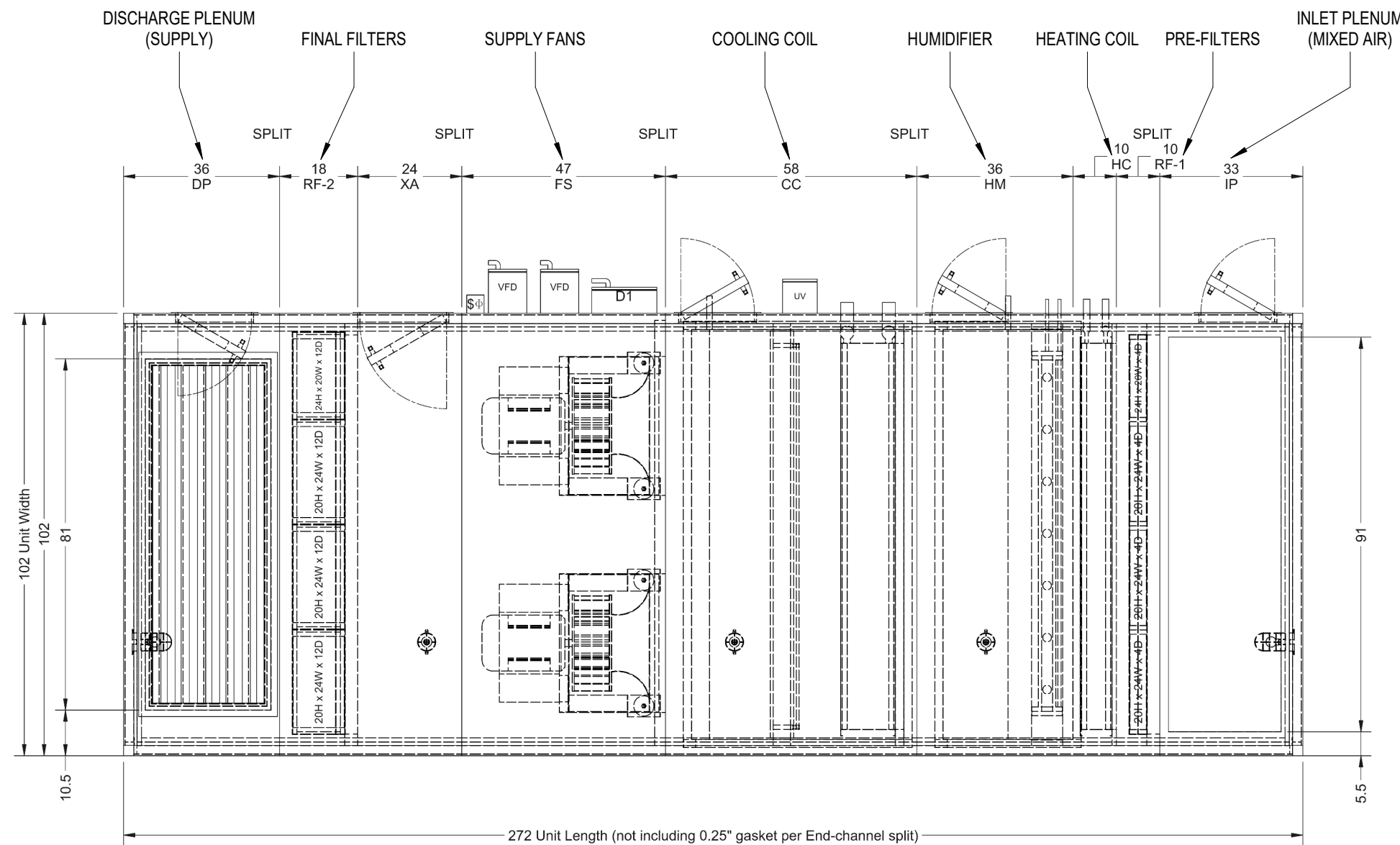
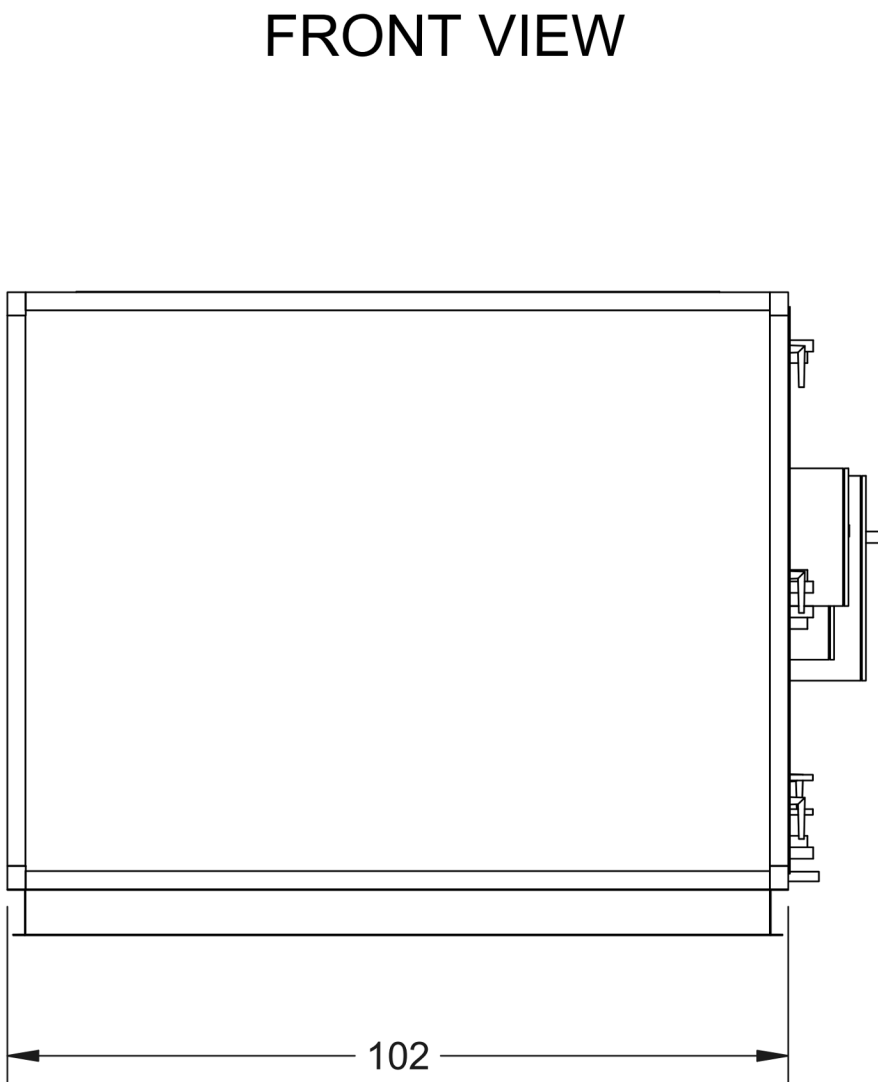
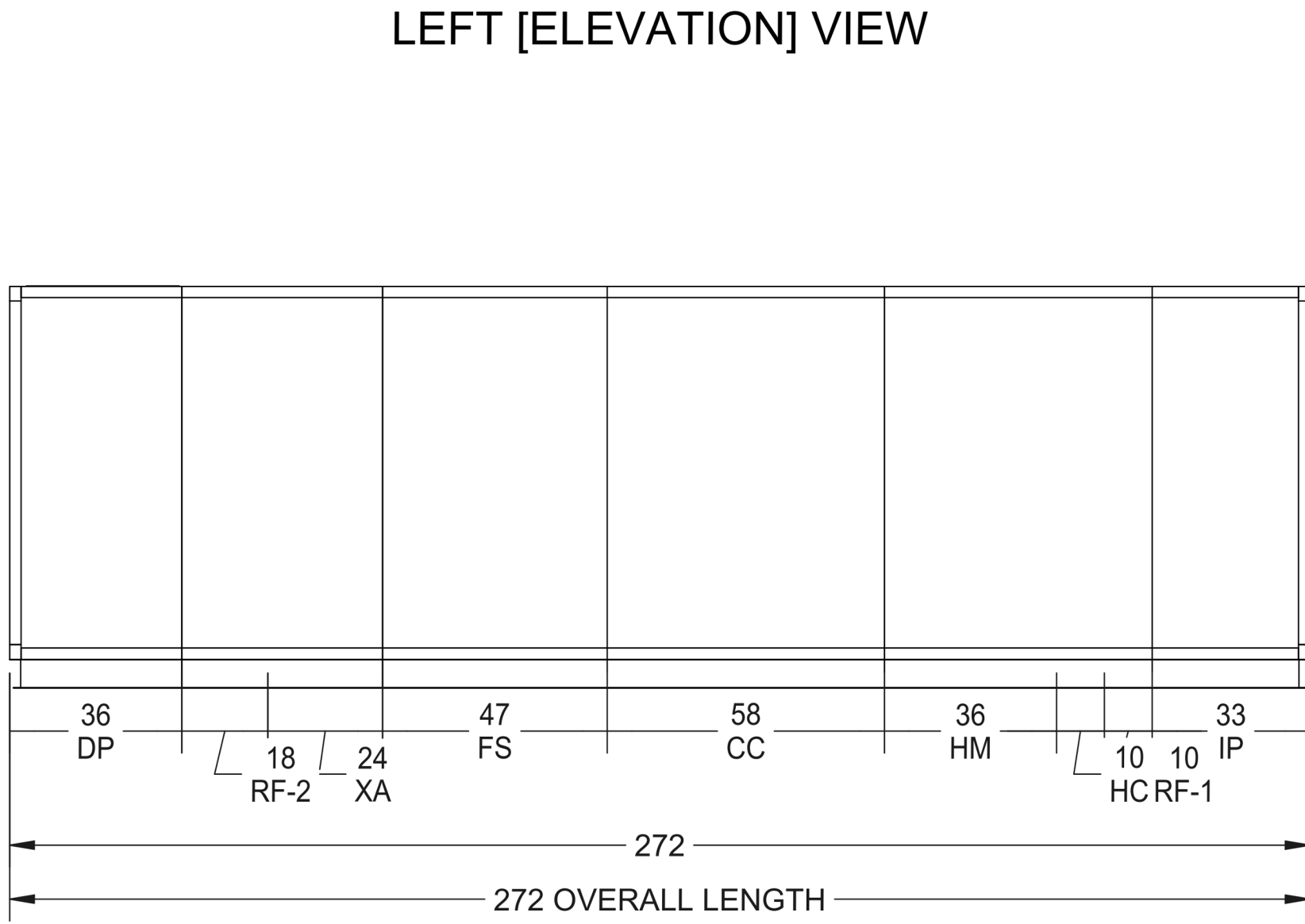
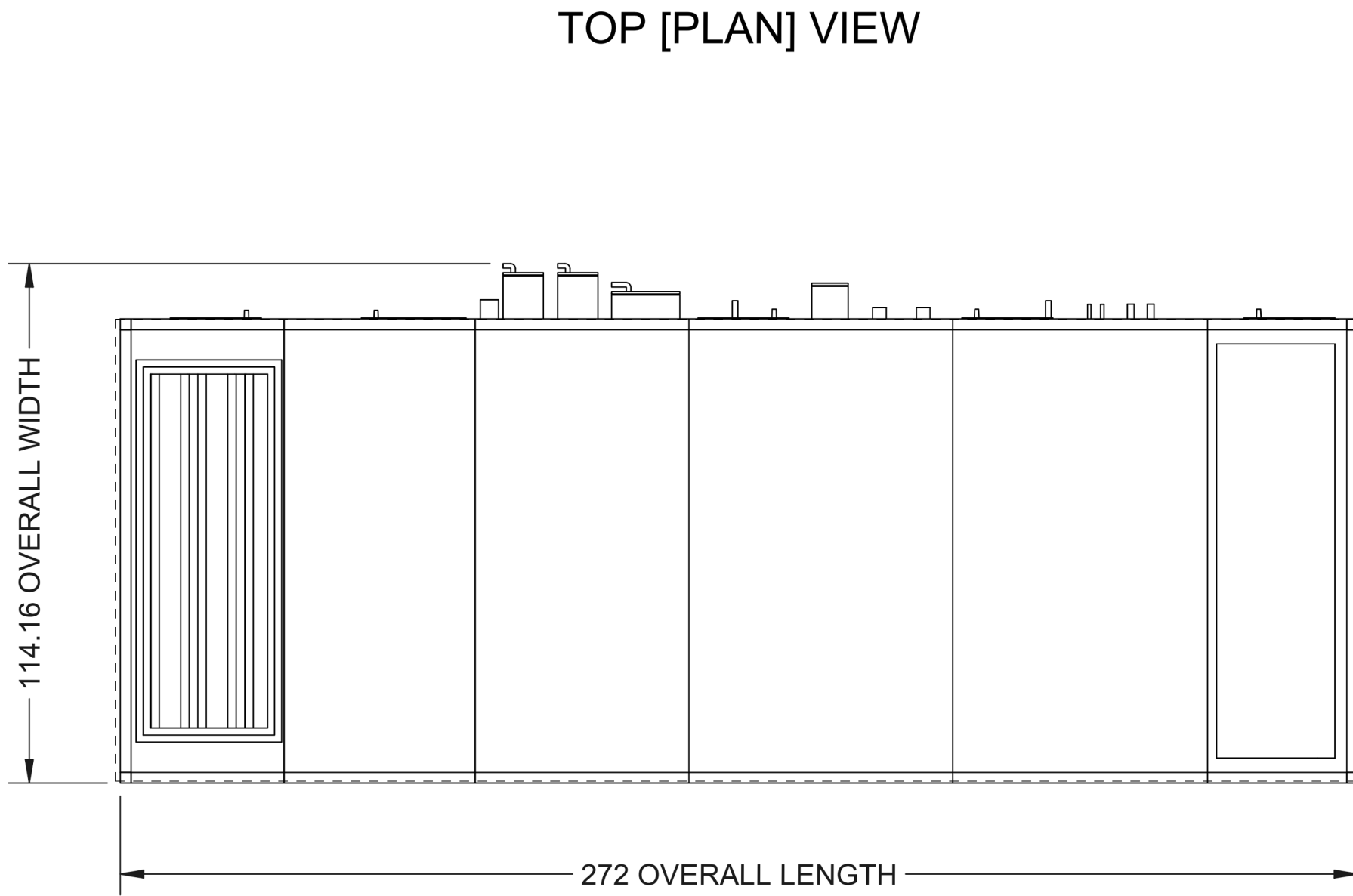
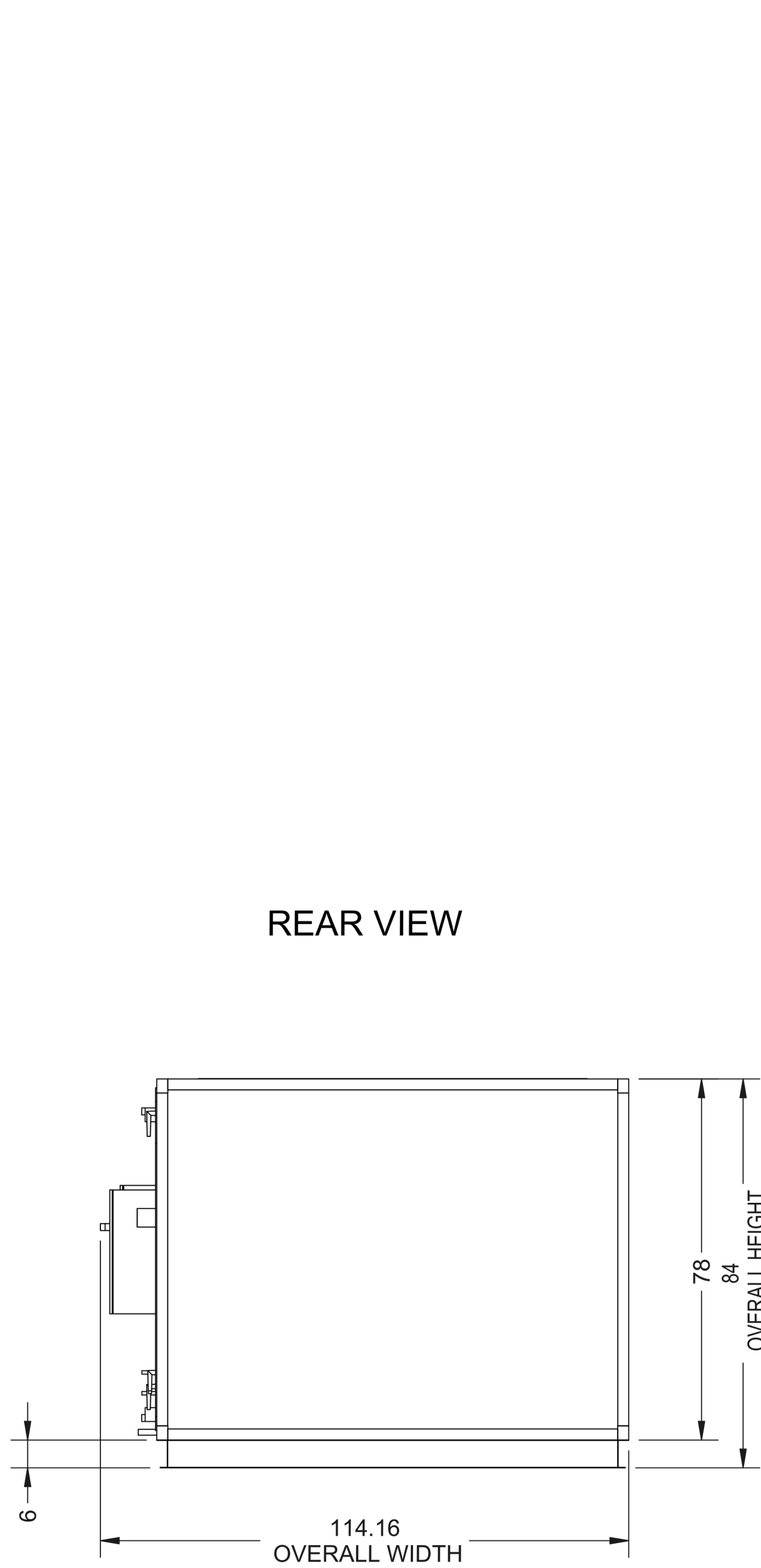


4 STEAM - FLOAT AND THERMOSTATIC TRAP PIPING  
NOT TO SCALE



3 HUMIDIFIER-AHU-DIRECT STEAM-HPS TO LPS AND DRAIN COOLER  
NOT TO SCALE





AHU-1 ELEVATION VIEWS

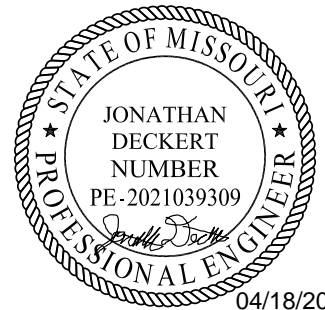


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DETAILS - MECHANICAL

M07-05

4/22/2025 2:27:46 PM Autodesk Docs://640624-HCA-LEE'S Summit Medical Center (LSMC)\_rv23/MEP-LSMC ED Expansion\_R23.rvt Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternate 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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## SCHEDULES - MECHANICAL

M08-01

## FAN SCHEDULE

DESIGNATION	LOCATION	SERVES	BALANCED CFM	ESP (IN WG)	BHP	MAX dBA	FAN DATA			ELECTRICAL MOTOR DATA			AVAILABLE FAULT SCCR (AMPS)	APPROX. WEIGHT (LBS)	MANUF. / MODEL	NOTES
							TYPE	RPM	DRIVE	HP	VOLT / PH	STARTER				
RAF-1	MECH ROOM 2-ME1211	AHU-1	10,855	1.5	5.29	77	MIXED FLOW INLINE	1248	DIRECT	10	460 / 3	ECM	5k*	330	GREENHECK / SQ-24-VG	8,9
DEF-1	ED EXPANSION ROOF (LEVEL 2)	DECONTAM (LEVEL 1)	425	1	0.14	71	UTILITY VENT SET	1671	DIRECT	1 / 4	460 / 3	HOA	5k*	148	GREENHECK / USF-04-B7	1-7
IRF-8	ED EXPANSION ROOF (LEVEL 2)	A.I.I. EXAM 11, A.I.I. TLT (LEVEL 1)	450	1	0.14	71	UTILITY VENT SET	1672	DIRECT	1 / 4	460 / 3	HOA	5k*	148	GREENHECK / USF-04-B7	1-7

### NOTES:

1. PROVIDE BIRDSSCREEN.
  2. 24" HIGH STEEL CURB, INSULATED, SLOPED BASE, LEVEL TOP.
  3. SCROLL DRAIN PLUG, ALL WELDED STEEL FAN HOUSING, ALL WELDED STEEL FAN WHEEL, CLEAN OUT PLATE ON
  4. FAN HOUSING, 95% SPRING RUBBER VIBRATION ISOLATORS, MOTOR & DRIVE COVER, FLANGED DUCT OUTLET.
  5. UPBLAST DISCHARGE.
  6. PROVIDE FLEX CONNECTION AT FAN INLET.
  7. PROVIDE 10 FT EXHAUST STACK, EXHAUST SHOULD DISCHARGE 10 FT FROM THE FINISHED ROOF.
  8. OAM II AIRFLOW MEASUREMENT SYSTEM MANUFACTURED BY AIR MONITOR TO BE DUCT-MOUNTED IN RETURN MAIN NEAR RAF-1. 24 V. NEMA 1.
  9. INSTALL PER MANUFACTURER REQUIREMENTS.
- \*SCOR RATING TO MEET OR EXCEED PANEL AIC RATING

## VAV TERMINAL UNIT W/ HEATING WATER COIL SCHEDULE FOR AHU-01

DESIGNATION	VAV						H.W. COIL								MAX P.D. AIR (IN WG)	MAX N.C.	JCI MODEL	NOTES
	INLET SIZE (IN)	MIN CFM	COOLING CFM	HEATING CFM	OUTLET SIZE (IN / IN)	VALVE MAX APD (IN WG)	EAT DB °F	LAT DB °F	CAPACITY MBH	EWT °F	LWT °F	GPM	MAX WATER P.D. (FT)					
VAV 01-01	6	175	200	175	10 / 10	0.25	52	90	6.9	140	110	0.5	10	0.50	25	TSS-WC-6	1-10	
VAV 01-02	6	125	150	125	10 / 10	0.25	52	90	4.9	140	110	0.3	10	0.50	25	TSS-WC-6	1-10	
VAV 01-03	8	0	600	0	12 / 10	0.25	-	-	-	140	110	-	10	0.50	25	TSS-WC-8	1-5, 7-9	
VAV 01-04	6	325	325	325	10 / 10	0.25	52	90	12.8	140	110	0.9	10	0.50	25	TSS-WC-6	ALL	
VAV 01-05	8	0	600	0	12 / 10	0.25	-	-	-	140	110	-	10	0.50	25	TSS-WC-8	1-5, 7-9	
VAV 01-06	6	75	125	75	10 / 10	0.25	52	90	3.0	140	110	0.2	10	0.50	25	TSS-WC-6	1-10	
VAV 01-07	10	725	725	725	14 / 12	0.25	52	90	28.6	140	110	1.9	10	0.50	25	TSS-WC-10	1-10	
VAV 01-08	8	600	600	600	12 / 10	0.25	52	90	23.6	140	110	1.6	10	0.50	25	TSS-WC-8	1-10	
VAV 01-09	6	150	150	150	10 / 10	0.25	52	90	5.9	140	110	0.4	10	0.50	25	TSS-WC-6	1-10	
VAV 01-10	8	400	575	400	12 / 10	0.25	52	90	15.8	140	110	1.1	10	0.50	25	TSS-WC-8	1-10	
VAV 01-11	6	150	150	150	10 / 10	0.25	52	90	5.9	140	110	0.4	10	0.50	25	TSS-WC-6	1-10	
VAV 01-12	6	100	275	100	10 / 10	0.25	52	90	3.9	140	110	0.3	10	0.50	25	TSS-WC-6	1-10	
VAV 01-13	12	875	1,025	875	16 / 16	0.25	52	90	34.5	140	110	2.3	10	0.50	25	TSS-WC-12	1-10	
VAV 01-14	6	75	200	75	10 / 10	0.25	52	90	3.0	140	110	0.2	10	0.50	25	TSS-WC-6	1-10	
VAV 01-15	12	1,125	1,125	1,125	16 / 16	0.25	52	90	44.3	140	110	3.0	10	0.50	25	TSS-WC-12	1-10	
VAV 01-16	6	75	210	75	10 / 10	0.25	52	90	3.0	140	110	0.2	10	0.50	25	TSS-WC-6	1-10	
VAV 01-17	12	1,150	1,150	1,150	16 / 16	0.25	52	90	45.3	140	110	3.0	10	0.50	25	TSS-WC-12	1-10	
VAV 01-18	6	150	275	150	10 / 10	0.25	52	90	5.9	140	110	0.4	10	0.50	25	TSS-WC-6	1-10	
VAV 01-19	6	250	350	250	10 / 10	0.25	52	90	9.8	140	110	0.7	10	0.50	25	TSS-WC-6	1-10	
VAV 01-20	6	125	350	125	10 / 10	0.25	52	90	4.9	140	110	0.3	10	0.50	25	TSS-WC-6	1-10	
VAV 01-21	6	300	300	300	10 / 10	0.25	52	90	11.8	140	110	0.8	10	0.50	25	TSS-WC-6	1-10	
VAV 01-22	8	325	525	325	12 / 10	0.25	52	90	12.8	140	110	0.9	10	0.50	25	TSS-WC-8	1-10	
VAV 01-23	8	450	450	450	12 / 10	0.25	52	90	17.7	140	110	1.2	10	0.50	25	TSS-WC-8	1-10	
VAV 01-24	10	450	750	450	14 / 12	0.25	52	90	17.7	140	110	1.2	10	0.50	25	TSS-WC-10	1-10	
VAV 01-25	6	250	275	250	10 / 10	0.25	52	90	9.8	140	110	0.7	10	0.50	25	TSS-WC-6	1-10	
VAV 01-26	8	550	550	550	12 / 10	0.25	52	90	21.7	140	110	1.4	10	0.50	25	TSS-WC-8	1-10	
VAV 01-27	6	100	100	100	10 / 10	0.25	52	90	3.9	140	110	0.3	10	0.50	25	TSS-WC-6	1-10	
VAV 01-28	6	300	350	300	10 / 10	0.25	52	90	11.8	140	110	0.8	10	0.50	25	TSS-WC-6	1-10	
VAV 01-29	10	275	850	275	14 / 12	0.25	52	90	10.8	140	110	0.7	10	0.50	25	TSS-WC-10	1-10	
TOTALS	-	9,650	13,310	9,650	-	-	-	-	380.2	-	-	25.7	-	-	-	-	-	

### NOTES:

1. UNIT MOUNTED / WIRED FACTORY CONTROL PANEL.
2. PRESSURE INDEPENDENT CONTROLS COMPATIBLE WITH BUILDING CONTROLS SYSTEM.
3. CONSTANT AIR VOLUME (CAV) BOXES SHALL BE IDENTICAL TO VARIABLE AIR VOLUME (VAV) BOXES.
4. FACTORY INTERNAL INSULATION: 1/2" THICK INTERNAL FIBER FREE, CLOSED CELL INSULATION.
5. CFM DELIVERY SHALL BE ACCURATE WITHIN 5% OF FROM 25-100% OF SCHEDULED BOX CFM.
6. H.W. COIL SHALL BE LOCATED AT DISCHARGE OF BOX.
7. OUTLET PLENUM BY CONTRACTOR. PROVIDE PLENUM WHERE INDICATED ON PLANS. DIMENSIONS ARE MINIMUM. COORDINATE WITH RUNOUT SIZES TO AIR DEVICES. PROVIDE TRANSITION FROM BOX OUTLET TO PLENUM.
8. BOXES SCHEDULED WITHOUT A HEATING WATER GPM SHALL NOT HAVE HEATING COILS, UNLESS OTHERWISE INDICATED.
9. CONTROLS SHALL BE FURNISHED AN SHIPPED TO TERMINAL BOX FACTORY BY TEMPERATURE CONTROLS MANUFACTURER. CONTROLS SHALL BE INSTALLED AT TERMINAL BOX FACTORY BY TERMINAL BOX MANUFACTURER.
10. PROVIDE PIPING CONNECTION TO TERMINAL UNIT REHEAT COILS AS SCHEDULED:  
0 - 4.0 GPM  
4.1 - 8.0 GPM  
8.1 - 15.0 GPM
11. PROVIDE 3-WAY VALVES FOR ALL VAVS AT END OF HW PIPING RUNS AS NOTED ON THE PIPING PLANS.

### NOTES (AHU's):

1. ISP EQUALS AHU SP LOSS WITH DIRTY FILTERS. TSP EQUALS ESP + ISP. TSP LISTED IS FOR REFERENCE ONLY.
2. FAN MOTOR NAMEPLATE HP SHALL NOT BE EXCEEDED AT SCHEDULED CFM AND TSP
3. IF MANUFACTURER'S COOLING COIL PROMOTES MOISTURE CARRYOVER AT THE ALLOWABLE MAX FACE VELOCITY, THEY SHALL OVERSIZE THE COIL FACE AREA TO PREVENT MOISTURE CARRYOVER AT THESE CONDITIONS.
4. COILS SHALL NOT BE COATED UNLESS NOTED OTHERWISE.
5. COOLING COIL SENSIBLE HEAT RATIO (SHR) TOLERANCE EQUALS PLUS OR MINUS 0.3. EXAMPLE: CSHR = 0.79 MAX + 0.76 MIN=0.82
6. 5/8" OD TUBES
7. PROVIDE LED LIGHT FIXTURE IN EACH ACCESSIBLE SECTION. PROVIDE ONE TIMER SWITCH WITH PILOT LIGHT TO ENERGIZE ALL LIGHTS. FACTORY WIRE ALL FIXTURES AND SWITCHES TO EXTERNAL JUNCTION BOX FOR FIELD CONNECTION TO A 120V CIRCUIT
8. PRE-FILTERS SHALL BE SNAP-IN TYPE WITH SUPPORTS ON ALL FOUR SIDES. FILTER BANK SHALL BE FULL SIZE.
9. HORIZONTAL DRAW-THRU
10. DOUBLE WALL CONSTRUCTION WITH THERMAL PERFORMANCE AS SPECIFIED.
11. INTERNALLY ISOLATED FAN, DRIVE, AND MOTOR.
12. PROVIDE VARIABLE FREQUENCY DRIVES FOR EACH SUPPLY FAN. VFDs TO BE SIZED FOR 50% OF THE FAN ARRAY'S AGGREGATE FAN HORSEPOWER.
13. COIL CASINGS SHALL BE STAINLESS STEEL.
14. FINAL BALANCED CFM TO BE COORDINATED WITH T&B CONTRACTOR AFTER CONSTRUCTION COMPLETION.
15. PROVIDE SEPARATE MINIMUM OUTSIDE AIR DAMPER.
16. SCOR 5KA. SCOR RATING TO MEET OR EXCEED PANEL AIC RATING.
17. PROVIDE UV LIGHTS.
18. PROVIDE BLANK-OFF PLATE FOR FAN FLOW ISOLATION.
19. PROVIDE ACCESS DOORS WITH DOUBLE-PANE VIEWING WINDOWS IN ALL FAN ACCESS SECTIONS, HUMIDIFIER SECTIONS, AND UPSTREAM OF ALL FILTER SECTIONS.

AIR HANDLING UNIT - SCHEDULE	
MARK	AHU-1
SERVES	LEVEL 1 ED
SUPPLY FAN	CFM (AHU TOTAL SA)
	17500
	BALANCE CFM
	15680
	ESP / TSP (W/G)
	2.50/6.51
RETURN FAN	FAN MOTOR QTY / HP (MIN)
	2 / 15 HP
	FAN MOTOR BHP PER FAN
	6.44 BHP
	(VOLTS/PHASE)
	460/3
COOLING COIL DATA	FAN WHEEL TYPE
	SWSI
	DRIVE
	DIRECT
	RAF-1 (DUCT-MOUNTED) (SEE FAN SCHEDULE FOR INFORMATION)
HEATING COIL DATA	TYPE COIL
	CHW
	DESIGN CFM
	17500
	MAX. FACE VEL. (FPM)
	426
HUMIDIFIER DATA	MAX. AIR P.D. (W/G) (~100 U.N.O.)
	0.77
	TOTAL / SENS / LAT (MBH) (MINIMUM)
	888 / 562 / 326
	EAT °F DB/WB
	80 / 67
FIRST FILTER DATA	LAT °F DB/WB
	49.3 / 49.1
	EWT °F / LWT °F (REFERENCE)
	42 / 56
	GPM (MAXIMUM)
	126.6
FINAL FILTER DATA	WATER PD (FT.) (MAXIMUM)
	8.3
	MINIMUM ROWS / MAXIMUM FINS PER INCH
	8 / 9
	TYPE / POSITION
	HW / PREHEAT
OUTSIDE AIR CFM (MINIMUM)	DESIGN CFM
	17500
	STEAM PSI
	15
	HUMIDIFICATION LOAD (LBS/HR)
	191
TYPE	EAT & RH % / LAT & RH%
	50 & 34% / 50 & 65%
	ABSORPTION DISTANCE (IN)
	9.72
	TYPE
	4" MINI PLEAT
EFFICIENCY (%) (ASHRAE 52)	EFFICIENCY (%) (ASHRAE 52)
	60% (MERV 11)
	MAXIMUM VELOCITY (FPM)
	430
	P.D. (CLEANDIRTY) (INCHES W.G.)
	0.40 / 1.5
MAXIMUM VELOCITY (FPM)	TYPE
	12" RIGID
	EFFICIENCY (%) (ASHRAE 52)
	90% (MERV 14)
	MAXIMUM VELOCITY (FPM)
	430
P.D. (CLEANDIRTY) (INCHES W.C.)	P.D. (CLEANDIRTY) (INCHES W.C.)
	0.48 / 1.5
	MANUFACTURER / MODEL NO. (JCI)
	XT1 - 78x102
	WEIGHT (LBS.)
	9757
UNIT NOMINAL DIMENSIONS (INCHES)	WIDTH x HEIGHT x LENGTH
	102x78x272
	NOTES
	ALL

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AIR CURTAIN SCHEDULE									
DESIGNATION	MANUFACTURER / MODEL	LOCATION / SERVICE	LENGTH (IN.)	TYPE	AIRFLOW (CFM)	ELECTRIC HEATER (KW)	MOTOR QTY. & (HP)	V / PH	NOTES
ARC-1	MARS / PH1072-2EEN-PW	LEVEL 1 ED WAITING ROOM ENTRY VESTIBULE	72	RECESSED, BOTTOM INLET & OUTLET	2,434	24	2 @ 1/2 HP	208 / 3	ALL
NOTES: 1 PROVIDE THE FOLLOWING ACCESSORIES: 99-125 (INDUSTRIAL METAL SURFACE MOUNTED MAGNETIC SWITCH, 120V/1PH, NEMA 1). INS-TD (UNIT MOUNTED ADJUSTABLE TIME DELAY, 1 SEC TO 17 MIN, 24V CNTRL) 2 PROVIDE WASHABLE FILTERS 3 MULTIPLE FAN SPEEDS 4 PROVIDE SINGLE POINT ELECTRICAL CONNECTION 5 COORDINATE FINISH COLOR WITH ARCHITECT									

PUMP SCHEDULE												
MARK	SERVES	TYPE	GPM	TDH (FT)	MOTOR ELECTRICAL					WEIGHT (LBS)	MANUFACTURER / MODEL	NOTES
					HP	RPM	VOLT/PHASE	DRIVE	AVAILABLE FAULT (AIC)			
PHP-1	AHU-1	WET ROTOR CIRCULATOR	17.3	10	1 / 3	3600	120 / 1	HOA		14	ARMSTRONG / SERIES 4380	ALL
1. PUMP MOTOR SHALL BE NON-OVERLOADING THROUGHOUT THE FULL RANGE OF THE PUMP CURVE 2. DISCONNECT SWITCH FURNISHED BY DIVISION 26 CONTRACTOR.  * AIC RATING SHALL MEET OR EXCEED PANEL RATING												

AIR DEVICE SCHEDULE								
DESIG.	SIZE	OBD	FINISH	THROW	NECK SIZE	MAX NC LEVEL	MANUFACTURER/MODEL NO.	REMARKS/NOTES
S1	24"X24"	NO	WHITE	ADJ. 4-WAY	NOTE 1	25	PRICE / SPD	CEILING PLAQUE SUPPLY DIFFUSER
S2	12"X12"	NO	WHITE	ADJ. 4-WAY	NOTE 1	25	PRICE/SPD	CEILING PLAQUE SUPPLY DIFFUSER
S3	SEE PLANS	NO	WHITE	ADJ.	FULL SIZE	25	PRICE / 620Z	SIDEWALL SUPPLY GRILLE / 2
S4	24"X24"	NO	WHITE	ADJ. 4-WAY	10" Ø	25	PRICE / LFD	LAMINAR FLOW SUPPLY DIFFUSER
S5	24"X24"	NO	WHITE	ADJ. 4-WAY	NOTE 1	25	PRICE / ASPD	ALUMINUM CEILING PLAQUE SUPPLY DIFFUSER
R1	24"X24"	NO	WHITE	-	NOTE 1	25	PRICE / SPD	CEILING RETURN GRILLE
R2	24"X12"	NO	WHITE	-	NOTE 1	25	PRICE / 535	CEILING RETURN GRILLE
R3	SEE PLANS	NO	WHITE	-	FULL SIZE	25	PRICE / 610Z	SIDEWALL RETURN GRILLE
E1	24"X24"	NO	WHITE	-	NOTE 1	25	PRICE/SPD	CEILING EXHAUST GRILLE
E2	12"X12"	NO	WHITE	-	NOTE 1	25	PRICE/SPD	CEILING EXHAUST GRILLE
E3	24"X24"	NO	WHITE	ADJ. 4-WAY	NOTE 1	25	PRICE / ASPD	ALUMINUM CEILING EXHAUST GRILLE

- GENERAL NOTES:
- A. CONTRACTOR TO COORDINATE FRAME STYLE WITH ARCHITECTURAL PLANS. FRAME TYPE SHALL MATCH CEILING TYPE AND MODULE DIMENSIONS.
- B. CONTRACTOR TO COORDINATE FINAL FINISHES WITH ARCHITECT. AIR DEVICES TO BE FACTORY PAINTED.
- C. NECK SIZES SHALL BE AS SCHEDULED UNLESS NOTED OTHERWISE ON PLANS.
- D. DUCT MOUNTED AIR DEVICES SHALL BE FLANGE MOUNTED. NO MOUNTING SCREWS SHALL BE VISIBLE EXCEPT ON EXPOSED DUCTWORK.

- NOTES:
- |    |         |          |     |
|----|---------|----------|-----|
| 1. | 6"Ø     | 0-100    | CFM |
|    | 8"Ø     | 101-225  | CFM |
|    | 10"Ø    | 226-400  | CFM |
|    | 12"Ø    | 401-600  | CFM |
|    | 14"Ø    | 601-900  | CFM |
|    | 15"x15" | 901-1000 | CFM |
2. GRILLE SHALL BE DOUBLE DEFLECTION TYPE WITH TWO SETS OF ADJUSTABLE BLADES ORIENTED PERPENDICULAR TO EACH OTHER.

SPLIT SYSTEM A/C UNIT SCHEDULE		
DESIGNATION		AC-1
LOCATION		LEVEL 01
SERVICE		IT
INDOOR UNIT DATA	SUPPLY CFM	1095
	EXT. S.P. (TWG)	-
	VOLTS / PH	208 / 1
	MCA	-
	MOCP	-
	DIMENSIONS (WxHxD) (IN)	47 1/4"x14 23/32"x10 7/16"
COOLING DATA	WEIGHT (LBS)	41
	EAT 1°F DBWB	80 / 67
	SENS. HEAT (BTUH)	34,000
	TOTAL HEAT (BTUH)	34,000
CONDENSING UNIT DESIGNATION		ACCU-1
CU DATA	VOLTS / PH	208 / 1
	MCA	23
	MOCP	30
	DIMENSIONS (WxHxD) (IN)	37 13/32"x32 3/4"x13"
	WEIGHT (LBS)	148
SCCR (AMPS)		*
MANUFACTURER		LG
INDOOR FAN COIL MODEL NO.		KNSAP361A
CONDENSING UNIT MODEL NO.		KUSAP361A
NOTES: 1. CAPACITY AT 105°F O.A.T. 2. 20 MINIMUM SEER2 RATING. 10.0 MINIMUM EER2 RATING. 3. CONTRACTOR SHALL PROVIDE AND INSTALL FACTORY POWERED CONTROLS AND CONTROL TRANSFORMER 4. PROVIDE ELECTRONIC ALTERNATOR AND FLOAT SWITCHES. 5. FACTORY WIRED SINGLE POINT CONNECTION 6. ELECTRICAL CONTRACTOR TO CONNECT EXTERIOR UNIT TO INTERIOR UNIT. 7. R-32 REFRIGERANT. 8. PROVIDE SEPARATELY POWERED REFCO COMBI CONDENSATE PUMP AT 120V. PART #3004046. *SCCR RATING TO MEET OR EXCEED PANEL AIC RATING		

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NUMBER  
PE-2021039309  
Professional Engineer

04/18/2025

WSP USA Buildings Inc. 2013001881

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ED EXPANSION

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

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

FACILITY NUMBER:  
0972400011

AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 04/18/25  
SCALE: 12" = 1'-0"  
DRAWN: HO  
REVIEWED: JD  
JOB NUMBER: U50040241.3707

SCHEDULES - MECHANICAL

M08-02

Autodesk Docx / 640624 - HCA - Lee's Summit Medical Center (LSMC) - r723(MEP) - LSME ED Expansion, R23.rvt 4/22/2025 2:27:48 PM Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternate 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.



A. SUPPLEMENTAL GENERAL CONDITIONS

- THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSTALLATION THAT IS COMPLETE WITH ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE, INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR RACED. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, LABOR, SUPERVISION AND SERVICE NECESSARY SO AS TO PROVIDE A COMPLETE, FUNCTIONING ELECTRICAL SYSTEM IN SAFE WORKING ORDER.
- SYMBOLS FOR VARIOUS ELEMENTS AND SYSTEMS SHOWN ON THE DRAWINGS SHOULD THERE BE ANY DOUBT REGARDING THE MEANING OR INTENT OF THE SYMBOLS, AN INTERPRETATION SHALL BE OBTAINED FROM THE ARCHITECT IN WRITING. THE DECISION OF THE ARCHITECT SHALL BE FINAL.
- IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO EXAMINE THE CONTRACT DOCUMENTS CAREFULLY BEFORE SUBMITTING THEIR BID. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY OMISSIONS, CONFLICTS WITH PROVISIONS OF LAWS AND CODES HAVING JURISDICTION, CONFLICTS BETWEEN DRAWINGS OR DRAWINGS AND SPECIFICATIONS, AND AMBIGUOUS DEFINITION OF THE EXTENT OF COVERAGE BETWEEN CONTRACTS. ANY SUCH DISCREPANCY SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT FOR CORRECTION. SHOULD ANY OF THESE ERRORS, OMISSIONS, CONFLICTS, OR AMBIGUITIES EXIST, THE CONTRACTOR SHALL HAVE THEM EXPLAINED AND ADJUSTED IN WRITING BEFORE SIGNING THE CONTRACT OR PROCEEDING WITH THE WORK. OTHERWISE, THE CONTRACTOR SHALL, AT THEIR OWN EXPENSE, SUPPLY THE PROPER MATERIALS AND LABOR TO MAKE GOOD ANY DAMAGE OR DEFECTS IN THEIR WORK OR THE RESULTS OBTAINED THEREFROM, CAUSED BY SUCH DISCREPANCY.
- WHEREVER CONFLICTS OCCUR BETWEEN DIFFERENT PARTS OF THE CONTRACT DOCUMENTS, THE GREATER QUALITY, THE BETTER QUALITY, OR LARGER SIZE SHALL PREVAIL UNLESS THE ARCHITECT INFORMS THE CONTRACTOR OTHERWISE IN WRITING.
- THE SCALE OF EACH DRAWING IS RELATIVELY ACCURATE; ANY DIMENSIONS SHOWN ARE APPROXIMATE TO CENTERLINE FROM ASSUMED BUILDING PERIMETER. THE CONTRACTOR SHALL OBTAIN THE NECESSARY DIMENSIONS FOR ANY EXACT TAKEOFFS FROM THE ARCHITECT. NO ADDITIONAL COST TO THE OWNER WILL BE CONSIDERED FOR FAILURE TO OBTAIN EXACT DIMENSIONS WHERE NOT CLEAR OR IN ERROR ON THE DRAWINGS. ANY DEVICE OR FIXTURE REQUIRED IN IMPROPERLY AND NOT POSITIONED ON IMPLIED CENTER LINES OR AS REQUIRED BY GOOD PRACTICE MUST BE REPOSITIONED AT NO COST TO THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND CERTIFICATES OF INSPECTION. THE CONTRACTOR SHALL DELIVER ALL CERTIFICATES OF INSPECTION TO OWNER/CONSTRUCTION MANAGER INCLUDING COPIES WITH MAINTENANCE MANUALS.
- ONLY EXPERIENCED CRAFTSMEN KNOWN TO THE OWNER IN THEIR RESPECTIVE TRADE SHALL PERFORM THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA STANDARD 70 NATIONAL ELECTRICAL CODE. CONTRACTOR SHALL ALSO COMPLY WITH ALL APPLICABLE LOCAL CODES AND AMENDMENTS.
- UNLESS OTHERWISE INDICATED, ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND SHALL MEET NEMA AND ANSI STANDARDS. THEY SHALL ALSO BE LISTED/LABELLED BY A NATIONALLY RECOGNIZED LABORATORY IN ACCORDANCE WITH NFPA 70 EQUIPMENT AND MATERIALS SHALL BE PROVIDED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, AND BE WITHIN THEIR LISTING/LABELING REQUIREMENTS AND RESTRICTIONS.
- PROVIDE SHOP DRAWINGS FOR ENGINEERS REVIEW FOR ALL ELECTRICAL EQUIPMENT, DEVICES, AND MATERIALS PROPOSED TO BE INSTALLED UNDER THIS CONTRACT. ANY DEVIATIONS FROM ITEMS SPECIFIED SHALL BE CLEARLY IDENTIFIED AND SEPARATELY SUBMITTED WITH A FORMAL SUBSTITUTION REQUEST. REFER TO SPECIFICATIONS (PROJECT MANUAL) FOR REQUIREMENTS.

B. ELECTRICAL EQUIPMENT

- PROVIDE AN IDENTIFICATION NAMEPLATE FOR EACH ELECTRICAL EQUIPMENT. APPURTENANCE DEPICTING THE DESIGNATION INDICATED ON THE DRAWINGS. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- WEATHERPROOF ENCLOSURES SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT, DEVICES AND APPURTENANCES (ALL SYSTEMS) INSTALLED OUTDOORS.
- COORDINATE AND SCHEDULE ALL POWER OUTAGES WITH OWNER. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- SPACE ALLOCATIONS FOR MATERIALS, EQUIPMENT AND DEVICES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT OR DEVICES OF A PARTICULAR MANUFACTURER. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND DEVICES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE.
- DO NOT USE PERMANENT INK WHEN MAKING FIELD MARKINGS OR TEMPORARY CIRCUIT LABELS ON PANELS. CONTRACTOR SHALL USE REMOVABLE TAPE/TAGS FOR ALL TEMPORARY MARKINGS AND SHALL REMOVE THESE TEMPORARY MARKINGS AT THE CONCLUSION OF THIS PROJECT.

C. SITE WORK

- COORDINATE WITH THE SITE WORK FOR THE LOCATION, DIMENSIONS AND ELEVATION OF ALL DUCTBANKS/SERVICE CONDUITS EXTERNAL TO THE BUILDING PRIOR TO INSTALLATION OF ALL DUCTBANKS/SERVICE CONDUITS INTERNAL TO THE BUILDING.
- COORDINATE ALL ELECTRICAL UTILITY SERVICE REQUIREMENTS WITH UTILITIES REPRESENTATIVE PRIOR TO COMMENCING ANY ELECTRICAL SITE WORK. CONTRACTOR SHALL SCHEDULE ALL NECESSARY MEETINGS BETWEEN UTILITY COMPANIES, CONSTRUCTION FOREMAN, ELECTRICAL SUBCONTRACTORS, AND VARIOUS SUBCONTRACTORS RESPONSIBLE FOR SITE CONSTRUCTION PRIOR TO ELECTRICAL ROUGH-IN.

D. CONDUIT & RACEWAY

- ALL WORK SHALL BE COORDINATED SO THAT INTERFERENCES ARE AVOIDED. PROVIDE ALL NECESSARY OFFSETS IN CONDUITS, RACEWAYS, ETC., REQUIRED TO PROPERLY INSTALL THE WORK. EXPOSED WORK MUST BE KEPT AS CLOSE AS POSSIBLE TO WALLS, CEILINGS, ETC., SO AS TO TAKE UP MINIMUM AMOUNT OF SPACE. ALL OFFSETS, FITTINGS, ETC., REQUIRED SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. WORK SHALL BE COORDINATED WITH OTHER TRADES.
- CONDUIT RUNS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER NFPA 70 AND FOR COORDINATION WITH OTHER DISCIPLINES.
- PENETRATIONS OF WALLS, FLOORS, AND ROOFS FOR THE PASSAGE OF ELECTRICAL RACEWAYS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OR RECOMMENDATION OF WORK. ALL SUCH PENETRATIONS SHALL BE PROPERLY SEALED OFF AFTER INSTALLATION OF RACEWAY SO AS TO MAINTAIN THE STRUCTURAL, WATER PROOF, AND FIRE PROOF INTEGRITY OF THE WALL, FLOOR, OR ROOF SYSTEM PENETRATED. SEAL ALL CONDUITS THAT PENETRATE THE BASEMENT FLOOR SLAB TO MAKE THEM WATER TIGHT. THE CONDUITS SHALL BE DRIED PRIOR TO INSTALLATION OF WIRE CABLE AND SHALL BE SEALED AT TERMINATIONS.
- ALL PENETRATIONS THROUGH FIRE RATED WALLS OR PARTITIONS SHALL BE MADE IN ACCORDANCE WITH U.L. "FIRE RESISTANCE DIRECTORY". PENETRATIONS SHALL BE SEALED AND SEALED WITH A UL APPROVED FIRE RATED SEALANT. REFER TO ARCHITECTURAL PLANS FOR FIRE RATED WALLS.
- ALL EMPTY CONDUIT SYSTEMS SHALL CONTAIN A PULL WIRE FOR FUTURE PULLING OF CONDUCTORS.

E. BRANCH CIRCUITS AND FEEDERS

- CIRCUITING IS SHOWN DIAGRAMMATICALLY. HOMERUNS SHALL BE COMBINED WHERE POSSIBLE IN ACCORDING TO NFPA 70.
- UNLESS OTHERWISE INDICATED, ALL CIRCUITS 100' OR LESS SHALL BE MINIMUM #12 AWG WIRE SIZE. CIRCUITS OVER 100' BUT LESS THAN 200' SHALL BE MINIMUM #10 AWG WIRE SIZE. CIRCUITS OVER 200' BUT LESS THAN 300' SHALL BE MINIMUM #8 AWG WIRE SIZE.
- UNLESS OTHERWISE INDICATED, ALL CONDUCTORS SHALL BE COPPER, 98% CONDUCTIVITY CONTINUOUS FROM OUTLET TO OUTLET.
- UNLESS OTHERWISE INDICATED, CONDUCTOR SIZES #12 AWG AND #10 AWG SHALL BE SOLID. CONDUCTOR SIZES #8 AWG AND LARGER MAY BE STRANDED.
- A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED WITH THE CIRCUIT CONDUCTORS FOR GROUNDING WHETHER OR NOT INDICATED ON THE DRAWINGS. METAL RACEWAY, OR A CABLE ARMOR OR SHEATH SHALL NOT BE USED AS THE ONLY GROUNDING CONDUCTOR.
- HOMERUN CIRCUITS FOR ISOLATED GROUND RECEPTACLES SHALL BE SEPARATED FROM OTHER CIRCUITS. EACH CIRCUIT SHALL HAVE ITS OWN NEUTRAL CONDUCTOR AND EACH HOMERUN SHALL CONTAIN AN ISOLATED AND EQUIPMENT GROUND CONDUCTOR.

F. WIRING DEVICES

- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION AND MOUNTING HEIGHT OF ALL WALL AND FLOOR MOUNTED ELEMENTS (OUTLETS, LIGHT SWITCHES, CONTROLLERS, POKE-THRU, ETC.). ALL WALL/FLOOR MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL DIMENSIONED DRAWINGS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL WALL/FLOOR TYPES IN ALL AREAS. DO NOT SCALE OR DIMENSION LOCATIONS FROM THESE DRAWINGS.
- COORDINATE THE LOCATION AND INSTALLATION DETAIL OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS (WALL ELEVATIONS, MILLWORK DETAILS, ETC.) AND WITH MILLWORK MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN.
- WALL AND FLOOR MOUNTED POWER RECEPTACLES SHOWN NEAR DATA OUTLETS SHALL BE LOCATED WITHIN SIX (6) INCHES OF THE DATA OUTLET. LOCATE AT SAME MOUNTING HEIGHT UNLESS NOTED OTHERWISE.
- VERIFY THE EXACT POWER CONNECTION TYPE AND NEMA CONFIGURATION OF RECEPTACLES FOR EQUIPMENT FURNISHED BY THE OWNER, OTHER TRADES, OR UNDER A SEPARATE SECTION OF THIS CONTRACT PRIOR TO ELECTRICAL ROUGH-IN.
- ALL RECEPTACLES LOCATED OUTSIDE THE BUILDING ENVELOPE SHALL BE HOUSED IN ENCLOSURES THAT ARE RATED WEATHER-PROOF-WHILE-IN-USE AND SHALL BE EQUIPPED WITH GFCI FOR PERSONNEL PROTECTION.
- ALL GFCI RECEPTACLES SHALL BE CONNECTED SO THAT ALL DEVICES ON THE SAME CIRCUIT AS THE GFCI RECEPTACLE DO NOT DE-ENERGIZE UPON TRIPPING. ALL GFCI RECEPTACLES SHALL INCLUDE A LOCK-OUT FUNCTION TO PROTECT AGAINST THE USE OF MISWIRED DEVICES OR DEVICES THAT HAVE BEEN DAMAGED DUE TO DISABLING SURGES.

G. LIGHTING SYSTEM

- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION OF ALL CEILING ELEMENTS (LIGHTS, SPRINKLERS, DIFFUSERS, ETC.). ALL CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL DIMENSIONED DRAWINGS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS. DO NOT SCALE OR DIMENSION LOCATIONS FROM THESE DRAWINGS.
- PROVIDE AND INSTALL ALL SUPPORTS FOR LIGHT FIXTURES. SUPPORTS SHALL BE INDEPENDENT OF THE CEILING GRID SUPPORT SYSTEM.
- LIGHT SWITCHES / OCCUPANCY SENSORS LOCATED IN A ROOM SHALL CONTROL ALL THE LIGHT FIXTURES IN THAT ROOM UNLESS NOTED OTHERWISE. CONTRACTOR SHALL GANG TOGETHER ALL SWITCHES/DIMMERS UNDER A SINGLE COVER PLATE IN ALL AREAS THAT REQUIRE MORE THAN ONE SWITCH TO CONTROL ELECTRICAL DEVICES.
- IN INSTANCES WHERE A TRACK LIGHTING SYSTEM, DIMMING SYSTEM, AND/OR LIGHTING CONTROL SYSTEM IS SPECIFIED, THE CONTRACTOR SHALL COORDINATE ALL NECESSARY CONNECTIONS OF SUCH SYSTEMS WITH THE MANUFACTURER PRIOR TO BID AND INCLUDE ALL NECESSARY ACCESSORIES TO INSTALL A COMPLETE AND FUNCTIONING SYSTEM.

H. MECHANICAL & PLUMBING COORDINATION

- REFERENCE THE MECHANICAL AND PLUMBING DRAWINGS FOR ALL EQUIPMENT NEEDING ELECTRICAL CONNECTIONS. MAKE ALL CONNECTIONS AND PROVIDE APPROPRIATE WIRE, CONDUIT, AND OVERCURRENT PROTECTION FOR ALL EQUIPMENT.
- VERIFY EXACT LOCATION OF ALL POWER CONNECTIONS AND CONTROL DEVICES WITH OTHER TRADES AND MANUFACTURERS SHOP DRAWINGS BEFORE CONSTRUCTION. COORDINATE ALL REQUIRED ENERGY MANAGEMENT SYSTEM POINTS AND CONTACT CONNECTIONS TO ENSURE THE COMPLETE AND PROPER OPERATION OF ALL SYSTEMS.
- ALL FUSED SWITCH AND/OR CIRCUIT BREAKERS SERVING EQUIPMENT SHALL HAVE PROVISIONS FOR HANDLE LOCKS.
- ALL CIRCUIT BREAKERS SERVING MECHANICAL EQUIPMENT SHALL BEAR AN HACR RATING.
- ALL DISCONNECTS DOWN STREAM OF VFDs SHALL BE PROVIDED WITH AUXILIARY CONTACTS TO SHUT DOWN UPSTREAM VFD WHEN SWITCH IS OPENED.
- COORDINATE BETWEEN TRADES AND PROVIDE CONTROL POWER FOR ALL VAV BOXES/DAMPERS/ETS, AS REQUIRED TO ENSURE A COMPLETE, FULLY FUNCTIONAL HVAC SYSTEM. SHOULD AN EXISTING CIRCUIT NUMBER NOT BE INDICATED ON ELECTRICAL DRAWINGS, CONTRACTOR SHALL UTILIZE AVAILABLE 20A/1P SPACE FROM THE NEAREST 200V/120V PANEL OR FROM BUILDING CONTROL POWER DISTRIBUTION SYSTEM.

I. SPECIAL SYSTEMS (i.e. DATA/PHONE/SECURITY/CATV)

- CONTRACTOR SHALL PROVIDE AND INSTALL AN EMPTY CONDUIT RACEWAY SYSTEM FOR SPECIAL SYSTEM. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN VENDOR SHOP DRAWINGS FROM THE VENDOR/INSTALL PRIOR TO ELECTRICAL ROUGH-IN. CONTRACTOR SHALL COORDINATE, PROVIDE AND INSTALL ALL REQUIRED RACEWAYS AND DEVICE BACK BOXES AS REQUIRED BY VENDOR SHOP DRAWINGS. CONTRACTOR TO PROVIDE A LINE ITEM ALLOWANCE IN BID AS NECESSARY TO COVER THIS SCOPE. REFER TO T SERIES AND AV SERIES DRAWINGS FOR ADDITIONAL REQUIREMENTS.

J. DEMO GENERAL NOTES

- PROVIDE UPDATED, TYPE WRITTEN DIRECTORY OF ALL CORRECT CIRCUITS WITH LOAD DEFINITIONS FOR EACH PANEL BOARD. DIRECTORY SHALL BE LOCATED INSIDE PANEL DOOR.
- INFORMATION PROVIDED ON THESE DRAWINGS HAVE BEEN TAKEN FROM DESIGN DRAWING AND FIELD OBSERVATIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PRICING AND COMMENCEMENT OF WORK.
- WHERE EXISTING WALLS ARE DEMOLISHED, REMOVE ALL EXISTING ELECTRICAL DEVICES AND THEIR ASSOCIATED CONDUITS AND WIRING BACK TO THE POINT OF ORIGIN. ENERGIZE ALL EXISTING DEVICES THAT WERE INTERRUPTED DURING DEMOLITION. WHERE ENTIRE CIRCUITS ARE REMOVED, TURN THE CIRCUIT BREAKER OFF AND PROVIDE FOR ANY AND ALL DEMOLITION WORK NECESSARY TO ACCOMMODATE ALL NEW CONSTRUCTION, INCLUDING ARCHITECTURAL, MECHANICAL, PLUMBING OR ELECTRICAL WORK.
- IF DEMOLITION IS REQUIRED TO INSTALL AN ITEM, THE CONTRACTOR SHALL RESTORE THE CIRCUIT TO PREVIOUS CONDITION, OR REPLACE DAMAGED ITEMS WITH NEW ITEMS TO MATCH EXISTING.
- DESIGNATION 'EX' REPRESENTS EXISTING DEVICES OR LIGHT FIXTURE TO REMAIN AS OUTLINED AND SWITCHED UNLESS NOTED OTHERWISE. EXISTING LIGHT FIXTURES SHALL BE CLEANED AND REPAIRED AS REQUIRED.
- A DEVICE WITH AN 'X' INDICATES EXISTING DEVICE TO BE REMOVED INCLUDING ALL ASSOCIATED CONDUIT AND WIRING.
- A DEVICE WITH AN 'R' INDICATES EXISTING DEVICE TO BE RELOCATED INCLUDING ALL ASSOCIATED CONDUIT AND WIRING.
- CONTRACTOR SHALL REMOVE ALL CONDUIT AND WIRING ASSOCIATED WITH DEVICES AND EQUIPMENT TO BE REMOVED AND/OR RELOCATED UNLESS NOTED OTHERWISE. PROVIDE AND INSTALL ALL NECESSARY DEVICES, EQUIPMENT AND ACCESSORIES REQUIRED TO MAINTAIN SERVICE TO ALL EXISTING TO REMAIN DEVICES AND EQUIPMENT THAT MAY BE INTERRUPTED DURING DEMOLITION.
- WHERE EXISTING MECHANICAL/PLUMBING EQUIPMENT IS DEMOLISHED, REMOVE ALL RELATED ELECTRICAL FEEDS TO THE EQUIPMENT AND THEIR ASSOCIATED CONDUITS BACK TO THE POINT OF ORIGIN.
- REFER TO ARCHITECTURAL PLANS FOR AREAS WHERE CEILING IS DEMOLISHED. REMOVE ALL LIGHTING FIXTURES AND ASSOCIATED CONDUIT AND WIRING FROM THESE LOCATIONS.
- ALL RECEPTACLES WITHIN THE PROJECT SCOPE SHALL BE HOSPITAL GRADE TYPE. IF A DEVICE IS INDICATED AS EXISTING TO REMAIN AND IS NOT A HOSPITAL GRADE RECEPTACLE, REPLACE THE EXISTING DEVICE WITH A HOSPITAL GRADE RECEPTACLE AND RECONNECT TO EXISTING CIRCUIT.
- ALL LIGHTING FIXTURES DEMOLISHED UNDER THESE DRAWINGS SHALL BE RETURNED TO THE OWNER.

FIRE ALARM SYSTEM

FIRE ALARM SYSTEMS IS A DELEGATED DESIGN. THESE DRAWINGS ARE INTENDED TO SHOW GENERAL GUIDELINES FOR THE PLACEMENT OF FIRE ALARM DEVICES AS THEY RELATE TO OTHER (NON-FIRE ALARM) SYSTEMS AND FOR PERMITTING PURPOSES. THE FINAL FIRE ALARM PLANS TO BE SUBMITTED FOR AHP APPROVAL SHALL BE PRODUCED AND SEALED BY A NCIET LEVEL II CERTIFIED DESIGNER. REFER TO THE SPECIFICATIONS (PROJECT MANUAL) FOR FURTHER REQUIREMENTS. THE DESIGNER SHALL PROVIDE ALL DEVICES SHOWN ON THESE DRAWINGS AND ANY ADDITIONAL DEVICES OR COMPONENTS REQUIRED FOR A COMPLETE SYSTEM. IF OTHER DEVICES ARE ANTICIPATED TO BE REQUIRED FOR SYSTEM FUNCTIONALITY, COMPLIANCE WITH NATIONAL AND LOCAL CODES OR APPROVAL OF THE AHP, THE CONTRACTOR SHALL QUALIFY THEIR BID AND SHALL PROVIDE AN AD ALTERNATE PRICE MARKING NOTE OF THE SPECIFIC ANTICIPATED ADDITIONAL REQUIREMENTS.

BUILDING CODE: 2018 IBC

FIRE CODE: 2018 IFC

ELECTRICAL CODE: 2017 NFPA 70 (NEC)

BUILDING CONSTRUCTION TYPE: TYPE 1A - FULLY SPRINKLERED

OCCUPANCY: TYPE II

PROJECT DESIGN CRITERIA

LOCATION:	CITY/STATE	LEE'S SUMMIT, MO
APPLICABLE CODES:	BUILDING	2018 INTERNATIONAL BUILDING CODE
	MECHANICAL	2018 INTERNATIONAL MECHANICAL CODE
	PLUMBING	2018 INTERNATIONAL PLUMBING CODE
	FIRE - ELECTRICAL	2018 INTERNATIONAL FIRE CODE 2017 NATIONAL ELECTRICAL CODE
LATITUDE:	38.9108° DEGREES NORTH	
ELEVATION:	FT. ABOVE SEA LEVEL	738 FT

ELECTRICAL ABBREVIATIONS

AF	ABOVE FINISHED COUNTER	MH	MANHOLE
AF	ABOVE FINISHED FLOOR	MLO	MAIN LUGS ONLY
AHJ	AUTHORITY HAVING JURISDICTION	MTD	MOUNT OR MOUNTED
AUT	AUTOMATIC TRANSFER SWITCH	N	NEW DEVICE
BOF	BELOW FINISHED CEILING	NF	NORMALLY CLOSED
BOF	BOTTOM OF FIXTURE	NEC	NATIONAL ELECTRICAL CODE
CB	CIRCUIT BREAKER	NE	NOT USED
CB OR CKT BRK	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CKT	CLOSED CIRCUIT T.V.	NORM	NORMALLY OPEN
CLG	CEILING	PB	PULL BOX
CLH	CRITICAL (EMERGENCY SYSTEM)	PLGMLD	PLUGMOLD
CKH	CABINET/HEATER	PNL	PANEL
ELEC	EMPTY CONDUIT	PWR	POWER
EM	EMERGENCY	R	RELOCATED DEVICE
EMS	ENERGY MANAGEMENT SYSTEM	RECPT	RECEPTACLE(S)
EXP	EXPLOSION PROOF	REF	REFRIGERATOR
WNC	ELECTRIC WATER COOLER	RF	RETURN AIR FAN
EX	EXISTING	SEF	SMOKE EXHAUST FAN
F	FUSE	SO (S.O.)	SPACE ONLY
F	FIRE ALARM	SP	SPARE
FACP	FIRE ALARM CONTROL PANEL	ST (S.T.)	SHUNT TRIP
FCU	FAN COIL UNIT	SW	SWITCH
FIXT	FIXTURE	TEL	TELEPHONE
FLR	FLOOR	TF	TRANSFER FAN
FLUOR	FLUORESCENT	TP	TAMPER PROOF
FITP, FIS OR FTU	FAN TERMINAL UNIT	TV	TELEVISION
FUT	FUTURE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
G	GROUND (EQUIPMENT)	UF	UNDERGROUND
GEF	GENERAL EXHAUST FAN	UH	UNIT HEATER
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER	UNO (U.N.O.)	UNLESS NOTED OR INDICATED OTHERWISE
HP	HIGH VOLTAGE	V	VOLTAGE
HV	HEAT TRACE	VFD	VARIABLE FREQUENCY DRIVE
IC	INTERLOCKING CAPACITY	VAP	VAPOR PROOF
INC	INCANDESCENT	VV	VARIABLE VOLUME UNIT
IG	ISOLATED GROUND	W	WIRE
IGF	GROUND FAULT INDICATION ONLY	W	WITH
JB	JUNCTION BOX	WG	WIRE GUARD
KEF	KITCHEN EXHAUST FAN	WP	WEATHER PROOF
LTS	LIGHTING	WT	WATER TIGHT
LV	LOW VOLTAGE	XFR	TRANSFER MOUNTING
MAV	MASTER ANTENNA	Y	YARD
MCP	MAIN CIRCUIT BREAKER	YCR	UNCUR CABBET REFRIGERATOR
MCP	MOTOR CONTROL CENTER		
MCP	MAIN DISTRIBUTION PANEL		

FIRE ALARM SYMBOLS LEGEND

SYMBOL	DESCRIPTION	MNTG. HT. UNO
	FIRE ALARM PULL STATION WALL MOUNTED	48" AFF
	FIRE ALARM AUDIBLE VISUAL SIGNAL WALL MOUNTED (X: H-HORN, S-SPEAKER)	80" AFF
	FIRE ALARM AUDIBLE SIGNAL WALL MOUNTED (X: H-HORN, S-SPEAKER)	80" AFF
	FIRE ALARM VISUAL SIGNAL WALL MOUNTED	80" AFF
	FIRE ALARM AUDIBLE VISUAL SIGNAL CEILING MOUNTED (X: H-HORN, S-SPEAKER)	--
	FIRE ALARM AUDIBLE SIGNAL CEILING MOUNTED (X: H-HORN, S-SPEAKER)	--
	FIRE ALARM VISUAL SIGNAL CEILING MOUNTED	--
	FIRE ALARM SPRINKLER FLOW SWITCH	--
	FIRE ALARM SPRINKLER TAMPER SWITCH	--
	FIRE ALARM SPRINKLER PRESSURE SWITCH	--
	SMOKE DETECTOR WALL MOUNTED	9" BFC
	SMOKE DETECTOR CEILING MOUNTED	--
	PATIENT ROOM SMOKE DETECTOR	--
	DUCT SMOKE DETECTOR	--
	FIRE AND SMOKE DAMPER	--
	HEAT DETECTOR WALL MOUNTED	9" BFC
	HEAT DETECTOR CEILING MOUNTED	--
	ELECTRO-MAGNETIC DOOR HOLDER	AS REQUIRED
	ELECTRO-MAGNETIC SMOKE DOOR HOLDER (INTERFACED WITH FIRE ALARM SYSTEM) DC POWER PROVIDED BY FIRE ALARM WIRING	AS REQUIRED
	FIRE ALARM BELL	108" AFF
	FIRE ALARM CONTROL PANEL	--" AFF
	FIRE ALARM ANNUNCIATOR PANEL	--" AFF
	FIRE PUMP ANNUNCIATOR PANEL	--" AFF
	FIREFIGHTERS CONTROL PANEL	--" AFF
	NOTIFICATION APPLIANCE CIRCUIT	--" AFF
	FOUR CIRCUIT FIRE ALARM INDICATING CIRCUIT POWER EXTENDER	--" AFF
	TELEPHONE JACK FOR FIREMAN'S PHONE (BY FIRE ALARM CONTRACTOR)	48" AFF
	WALL STATION TELEPHONE FOR FIREMAN'S PERMANENT HANDSET (BY FIRE ALARM CONTRACTOR)	48" AFF

ONE-LINE DIAGRAM & RISER SYMBOLS LEGEND

	AUTOMATIC / MANUAL TRANSFER SWITCH - PROGRAMMED OR DELAYED TRANSITION		AUTOMATIC / MANUAL TRANSFER SWITCH - BYPASS ISOLATION
	DISCONNECT		FEEDER TAG. REFER TO FEEDER SCHEDULE FOR NUMBER AND SIZE OF CONDUCTORS AND CONDUIT. A-ALUMINUM C-COPPER
	MOTOR		GROUNDING ELECTRODE
	BRANCH PANEL		TRANSFORMER
	BOLT ON CIRCUIT BREAKER		DRAW OUT CIRCUIT BREAKER
	LSIG - ELECTRONIC TRIP FUNCTIONS L = LONG TIME SETTING S = SHORT TIME SETTING I = INSTANTANEOUS SETTING G = GROUND FAULT SETTING + = INDICATION GROUND FAULT (GROUND FAULT ALARM ONLY)		AT = TRIP RATING AF = FRAME SIZE

LIGHTING CONTROLS SYMBOLS LEGEND

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	# IN DIAMOND REFERS TO LIGHTING CONTROLS REQUIREMENTS AND SEQUENCE OF OPERATIONS SCHEDULE.	
	WALL SWITCH SPST, 20A, 120/277V	48" AFF
	3-WAY WALL SWITCH, 20A, 120/277V	48" AFF
	WALL DIMMER SWITCH, 20A, 120/277V	48" AFF
	3-WAY WALL DIMMER SWITCH, 20A, 120/277V	48" AFF
	OCCUPANCY SENSOR WALL SWITCH, 20A, 120/277V, AUTO 'ON' TO 100%, AUTO 'OFF'	48" AFF
	B-LEVEL OCCUPANCY SENSOR DIMMING WALL SWITCH, 20A, 120/277V, AUTO 'ON' TO 50%, MANUAL 'ON' TO 100%, AUTO 'OFF', WITH RAISE/LOWER	48" AFF
	1 ZONE, LOW VOLTAGE SWITCH, ON/OFF	48" AFF
	1 ZONE, LOW VOLTAGE DIMMING SWITCH, ON/OFF WITH RAISE/LOWER BUTTONS	48" AFF
	2 ZONE, LOW VOLTAGE SWITCH, SEPARATE ON/OFF BUTTONS FOR EACH ZONE	48" AFF
	2 ZONE, LOW VOLTAGE DIMMING SWITCH, ON/OFF WITH RAISE/LOWER BUTTONS, SEPARATE BUTTONS PROVIDED FOR EACH ZONE	48" AFF

NOTES:

- REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL MOUNTING HEIGHTS. WHERE MOUNTING HEIGHT IS NOT INDICATED BY ARCHITECT, PROVIDE AT 48" AFF.
- ANY SINGLE LOW VOLTAGE WALL STATION CONTROLLING BOTH A NORMAL LIGHTING CIRCUIT AND EMERGENCY LIGHTING CIRCUIT SHALL BE PROVIDED WITH DIFFERENT COLOR BUTTONS (NORMAL - WHITE, EMERGENCY - RED). REFER TO SPECIFICATIONS FOR MORE INFORMATION.

POWER SYMBOLS LEGEND

SYMBOL	DESCRIPTION	MNTG. HT. UNO
	SINGLE RECEPTACLE - 20A/125V/2P/3W/IG NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE - 20A/125V/2P/3W/IG NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT	18" AFF
	DUPLEX RECEPTACLE GFI - 20A/125V/2P/3W/IG NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP GFI - 20A/125V/2P/3W/IG NEMA 5-20R	8" AFC OR 42" AFF
	DUPLEX RECEPTACLE MOUNTED HORIZONTALLY	18" AFF
	DUPLEX RECEPTACLE - GFI, TAMPER RESISTANT, WEATHER RESISTANT, HOUSED IN A "WEATHERPROOF-WHILE-IN-USE" ENCLOSURE - 20A/125V/2P/3W/IG NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP	8" AFC OR 42" AFF
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP ON EMERGENCY CIRCUIT	8" AFC OR 42" AFF
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP GFI - 20A/125V/2P/3W/IG NEMA 5-20R	8" AFC OR 42" AFF
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP ON EMERGENCY CIRCUIT	8" AFC OR 42" AFF
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP ON EMERGENCY CIRCUIT	8" AFC OR 42" AFF
	SPECIAL PURPOSE RECEPTACLE (NEMA NO. AS INDICATED)	18" AFF
	FLOOR MOUNTED RECEPTACLE IN FLOOR BOX OR POKE-THRU DEVICE - FLUSH MOUNTED, UNO	FLUSH W/ FLR SURFACE
	CEILING MOUNTED RECEPTACLE - CONFIGURATION UNO	FLUSH W/ CLG SURFACE
	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED	AS REQUIRED
	WALL MOUNTED JUNCTION BOX FOR DATA/TELEPHONE - SIZE & MOUNTING AS REQUIRED	AS REQUIRED
	POWER POLE	--
	PLUGMOLD	AS REQUIRED
	DISCONNECT SWITCH (X=FRAME SIZE, Y=FUSE SIZE, Z=NUMBER OF POLES)	AS REQUIRED
	DISCONNECT SWITCH NON-FUSED (X=FRAME SIZE, Z=NUMBER OF POLES)	AS REQUIRED
	ENCLOSED CIRCUIT BREAKER (X=TRIP RATING, Z=NUMBER OF POLES)	AS REQUIRED
	MOTOR STARTER FVFN UNO (#=NEMA SIZE)	AS REQUIRED
	COMBINATION MOTOR CONTROLLER / DISCONNECT SWITCH	AS REQUIRED
	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD AND PILOT LIGHT	AS REQUIRED
	EMERGENCY POWER OFF BUTTON - WALL MOUNTED	AS REQUIRED
	CIRCUIT CONDUCTOR INDICATION (EQUIPMENT GROUND, NEUTRAL, PHASE)	--
	CIRCUIT HOMERUN TO PANELBOARD (2#12, 1#12G, 3#12, 20A/1P CB UNO)	--
	CIRCUIT INSTALLED IN CEILING SPACE OF FLOOR BELOW.	--
	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.	--
	MULTI-POLE DEVICE CIRCUIT NUMBERS. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.	--
	208Y120V PANELBOARD	--
	480Y277V PANELBOARD	--
	208Y120V DISTRIBUTION PANELBOARD	--
	480Y277V DISTRIBUTION PANELBOARD	--
	ISOLATION PANEL	--
	SWITCHBOARD	--
	STEP-DOWN TRANSFORMER	--
	AUTOMATIC TRANSFER SWITCH	--
	BY-PASS / ISOLATION AUTOMATIC TRANSFER SWITCH	--
	GROUND BAR	--
	GENERATOR ALARM PANEL	AS REQUIRED
	BOILER ALARM PANEL	AS REQUIRED

GENERAL NOTATIONS AND MOUNTING HEIGHTS

- NOTE 1: ALL MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE, UNLESS OTHERWISE INDICATED.
- A) 48" AFF INDICATES TO TOP OF DEVICE.
- B) 15" AFF INDICATES TO BOTTOM OF DEVICE.
- C) 60" AFF INDICATES TO BOTTOM OF DEVICE.
- D) 80" AFF INDICATES TO BOTTOM OF DEVICE.

NOTE 2: CONFIRM ALL BACKBOX SIZE WITH VENDOR SHOP DRAWINGS PRIOR TO ELECTRICAL ROUGH-IN.

- LEGEND NOTES: DENOTES "SEE LEGEND NOTE NO. 2"
- EQUIPMENT (ID) NUMBER FOR FOOD SERVICE EQUI



- A. DETAIL TO AND COORDINATE WITH THE ARCHITECTURAL PLANS, ELEVATIONS, AND REFERENCES FOR DEMOLITION REQUIREMENTS
- B. REFER TO E200-00 FOR ADDITIONAL DEMOLITION NOTES
- C. IF THERE ARE WALLS ARE BEING TAKEN DOWN TO STUDS, REMOVE ALL ELECTRICAL DEVICES AND ASSOCIATED CONDUIT AND CONDUCTORS CONTAINED THEREIN UNLESS NOTED OTHERWISE.
- D. WHERE ENTIRE CIRCUIT IS REMOVED, CIRCUIT SHALL BE DEMOLISHED BACK TO POINT OF ORIGINATION, TURN THE CIRCUIT BREAKER OFF AND LABEL AS "SPARK"
- E. ENERGIZE ALL EXISTING DEVICES THAT WERE INTERRUPTED DURING DEMOLITION
- F. WHERE REMOVAL OF DEVICES AND ASSOCIATED CONDUIT AND CONDUCTORS EFFECTS OTHER DEVICES, RECONNECT OR PROVIDE NEW CONDUIT AND CONDUCTORS AS REQUIRED TO ASSURE PROPER OPERATION OF ALL ADJACENT AREAS AFFECTED BY THE RENOVATION REMAIN COMPLETELY OPERATIONAL.

- 1 ALL EXISTING ELECTRICAL CONDUIT, CONDUCTORS, AND DEVICES SERVING THIS SPACE ARE TO REMAIN UNLESS NOTED OTHERWISE.
- 2 EXISTING POWER FEEDS, FIRE ALARM DEVICES, AND LIGHTING FIXTURES IN THIS ROOMAREA ARE TO BE REMOVED, UNLESS NOTED OTHERWISE.
- 3 EXISTING PANELBOARD TO BE DEMOLISHED. REMOVE UNDERGROUND CONDUCTORS, CUT, AND CAP CONDUIT FOR ABANDON IN PLACE. RUN NEW CONDUIT AND CONDUCTORS FOR FEEDERS ABOVE CEILING TO NEW PANEL LOCATION. EXISTING TO REMAIN BRANCH CIRCUITS TO BE REMOVED ABOVE CEILING. EXTEND AND RECONNECT CONDUIT AND CONDUCTORS TO NEW PANEL LOCATION.
- 4 FIELD INVESTIGATE AND TRACE CONDUCTORS. REMOVE UNDERGROUND CONDUCTORS, CUT, AND CAP CONDUIT FOR ABANDON IN PLACE. RUN NEW CONDUIT AND CONDUCTORS FOR FEEDERS ABOVE CEILING TO NEW PANEL LOCATION. EXISTING TO REMAIN BRANCH CIRCUITS TO BE INTERPRETED AS CEILING, EXTEND AND RECONNECT CONDUIT AND CONDUCTORS TO NEW PANEL LOCATION.
- 5 RELOCATE EXISTING DEVICES. PROVIDE E202-01 AND E203-01 FOR NEW LOCATION.

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STATE OF MISSOURI  
 MINDY SUSAN WHISLER  
 NUMBER  
 PE-2017000125  
 PROFESSIONAL ENGINEER  
 04/18/2025  
 WSP USA Buildings Inc. 2013001881

ED EXPANSION

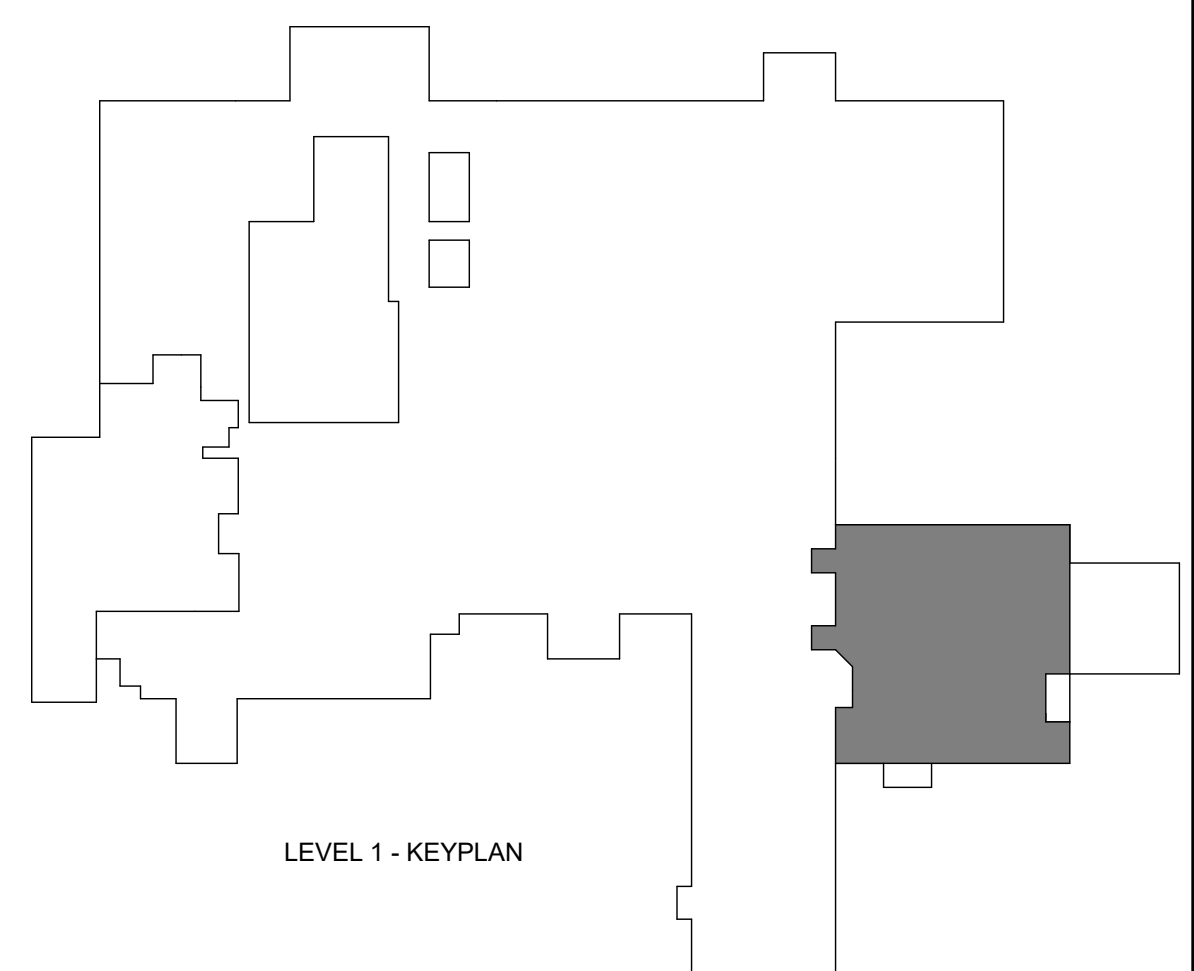
**AUTHORITY HAVING JURISDICTION:**  
**CITY OF LEE'S SUMMIT BUILDING DEPT.**  
**MISSOURI DHSS**

AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/16/25
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	U50040241.3707

ED02-01



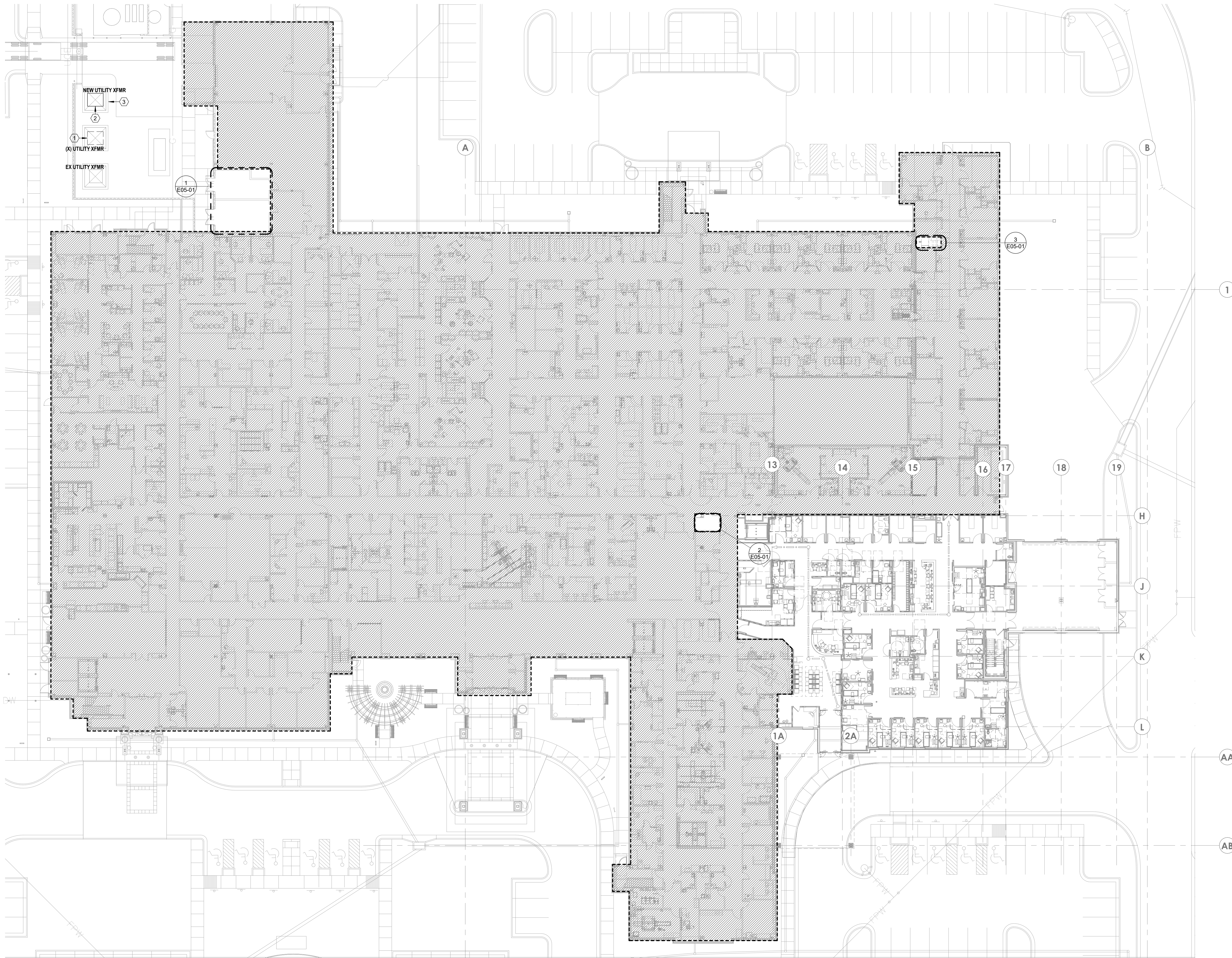
① DEMOLITION PLAN - LEVEL 01 - POWER  
1/8" = 1'-0"

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### GENERAL NOTES

- REFER TO SHEET E00-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES
- REFER TO SHEET E08 SERIES FOR FEEDER AND PANELBOARD SCHEDULES
- REFER TO AND COORDINATE WITH THE ARCHITECTURAL PLANS, ELEVATIONS, EQUIPMENT VENDOR DRAWINGS AND DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES
- COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO: SMOKE DAMPERS, FIRE/SMOKE DAMPERS, VAV BOXES, FCU'S, ETC. WITH MECHANICAL DRAWINGS AND DIVISION 23 CONTRACTOR
- COORDINATE LOCATIONS OF ALL DISCONNECTS, CONTROL PANELS, AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES.

### LEGEND NOTES

- EXISTING 1500KVA UTILITY TRANSFORMER TO BE DEMOLISHED.
- EXTEND AND RECONNECT FEEDERS TO NEW UTILITY TRANSFORMER, COORDINATE NEW UTILITY TRANSFORMER REQUIREMENTS AND LOCATION WITH UTILITY COMPANY.
- HOUSEKEEPING PAD FOR ELECTRICAL EQUIPMENT. REFER TO ARCHITECTURAL AND STRUCTURAL SHEETS AND DETAILS FOR ADDITIONAL INFORMATION.



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Consultant:



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KANSAS CITY, MO 64105



04/18/2025  
WSP USA Buildings Inc. 2013001881

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### ED EXPANSION

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

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

FACILITY NUMBER:  
0972400011

AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 04/18/25  
SCALE: As indicated  
DRAWN: WSP  
REVIEWED: WSP  
JOB NUMBER: U50040241.3707

FLOOR PLAN - LEVEL 01 -  
OVERALL

E02-00

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 Docx/1640624 - HCA - Lee's Summit Medical Center (LSMC) - r123/MEP - LSME ED Expansion, R23.rvt

4/22/2025 11:22:19 AM



Consultant:



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04/18/2025  
WSP USA Buildings Inc. 2013001881

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HCA - LEE'S SUMMIT MEDICAL  
CENTER  
2100 SE BLUE PKWY LEE'S  
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AUTHORITY HAVING JURISDICTION:  
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FACILITY NUMBER:  
0972400011

AGENCY APPROVALS:  
AGENCY

REVISIONS

REV #	DESCRIPTION	DATE

DATE: 04/18/25  
SCALE: 1/8" = 1'-0"  
DRAWN: WSP  
REVIEWED: WSP  
JOB NUMBER: U50040241.3707

FLOOR PLAN - LEVEL 01 -  
POWER

E02-01

## GENERAL NOTES

- REFER TO SHEET E00-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES
- REFER TO SHEET E08 SERIES FOR FEEDER AND PANELBOARD SCHEDULES
- REFER TO AND COORDINATE WITH THE ARCHITECTURAL PLANS, ELEVATIONS, EQUIPMENT VENDOR DRAWINGS AND DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES
- COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO: SMOKE DAMPERS, FIRE/SMOKE DAMPERS, VAV BOXES, FCUS, ETC. WITH MECHANICAL DRAWINGS AND DIVISION 23 CONTRACTOR
- COORDINATE LOCATIONS OF ALL DISCONNECTS, CONTROL PANELS, AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES.

## LEGEND NOTES

- REFER TO "ENLARGED LEVEL 01 - EXAM RM TYPICAL - POWER" ON 05E05-01 FOR TYPICAL POWER DEVICE LAYOUT
- DEVICES TO BE LOCATED IN TV BACK-BOX. REFER TO TECHNOLOGY DRAWINGS FOR SPECIFICATION AND DETAILS. COORDINATE EXACT LOCATION WITH MONITOR TV MOUNTING BRACKET. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR BRACKET MOUNTING HEIGHT AND EXACT LOCATIONS PRIOR TO ROUGH-IN
- PROVIDE BLANK FACE (FACELESS) GFCI IN A READILY ACCESSIBLE LOCATION FOR RECEPTACLE INDICATED LABEL PER DEVICE INDICATED ON DRAWINGS. REFER TO DETAIL 01E07-01 FOR ADDITIONAL DETAILS
- PROVIDE 120V POWER CONNECTION TO VAVS IN THIS AREA TO EMERGENCY EQUIPMENT CIRCUIT INDICATED. PROVIDE 20A 1P SWITCH AT CONTROL TRANSFORMER(S). REFER TO MECHANICAL DRAWINGS FOR BOX LOCATIONS. MAXIMUM OF 15 TERMINAL UNITS PER CIRCUIT. QUANTITY OF VAVS SHALL BE BALANCED BETWEEN THE CIRCUITS INDICATED IN THE SAME SMOKE ZONE. TERMINAL UNITS IN DIFFERENT SMOKE ZONES SHALL NOT BE ON THE SAME CIRCUIT.
- PROVIDE 120V POWER CONNECTION TO FIRE/SMOKE DAMPERS, SMOKE DAMPERS, AND MOTORIZED DAMPERS IN THIS AREA. PROVIDE SEPARATE RELAYS FOR EACH DUCT DETECTOR TO MEET MECHANICAL SEQUENCES. REFER TO THE ARCHITECTURAL LIFE SAFETY PLANS FOR SMOKE WALLS AND MECHANICAL PLANS FOR THE LOCATIONS OF ALL FIRE/SMOKE DAMPERS, SMOKE DAMPERS, AND MOTORIZED DAMPERS.
- CONNECT TO EXISTING CIRCUITS PREVIOUSLY ALARM PANELS.
- PROVIDE SEPARATE 1" CONDUIT PATHWAY UNDERNEATH NURSE STATION FOR ROUTING OF NORMAL AND CRITICAL EMERGENCY POWER CIRCUITS INDICATED IN THIS NURSE STATION MILLWORK. RUN CONDUIT AND CONDUCTORS OVERHEAD TO NEAREST WALL, DOWN WALL, AND THEN SAWCUT SLAB OVER TO NURSE STATION.
- INDOOR UNIT TO BE SERVED FROM OUTDOOR UNIT. REFER TO OUTDOOR UNIT FOR FEEDER REQUIREMENTS.



1 FLOOR PLAN - LEVEL 01 - POWER  
1/8" = 1'-0"

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4/22/2025 2:05:39 PM







GENERAL NOTES

- A. REFER TO AND COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, EQUIPMENT VENDOR DRAWINGS AND DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHT OF ALL WIRING DEVICES  
B. REFER TO SHEET E03-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES.  
C. REFER TO SHEET E03-01 FOR LIGHT FIXTURE SCHEDULES  
D. CONTRACTORS SHALL USE FMC TRANSITIONS FROM EMT AT BUILDING EXPANSION JOINTS WHEN APPLICABLE. FMC ROUTING SHALL BE PROVIDED TO ALLOW LATERAL AND VERTICAL ADJUSTMENTS IN LINE WITH COORDINATE EXACT LOCATIONS OF EXPANSION JOINTS WITH ARCHITECTURAL DRAWINGS



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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: 04/18/25  
SCALE: 1/8" = 1'-0"  
DRAWN: WSP  
REVIEWED: WSP  
JOB NUMBER: U50040241.3707

SITE PLAN - PHOTOMETRICS

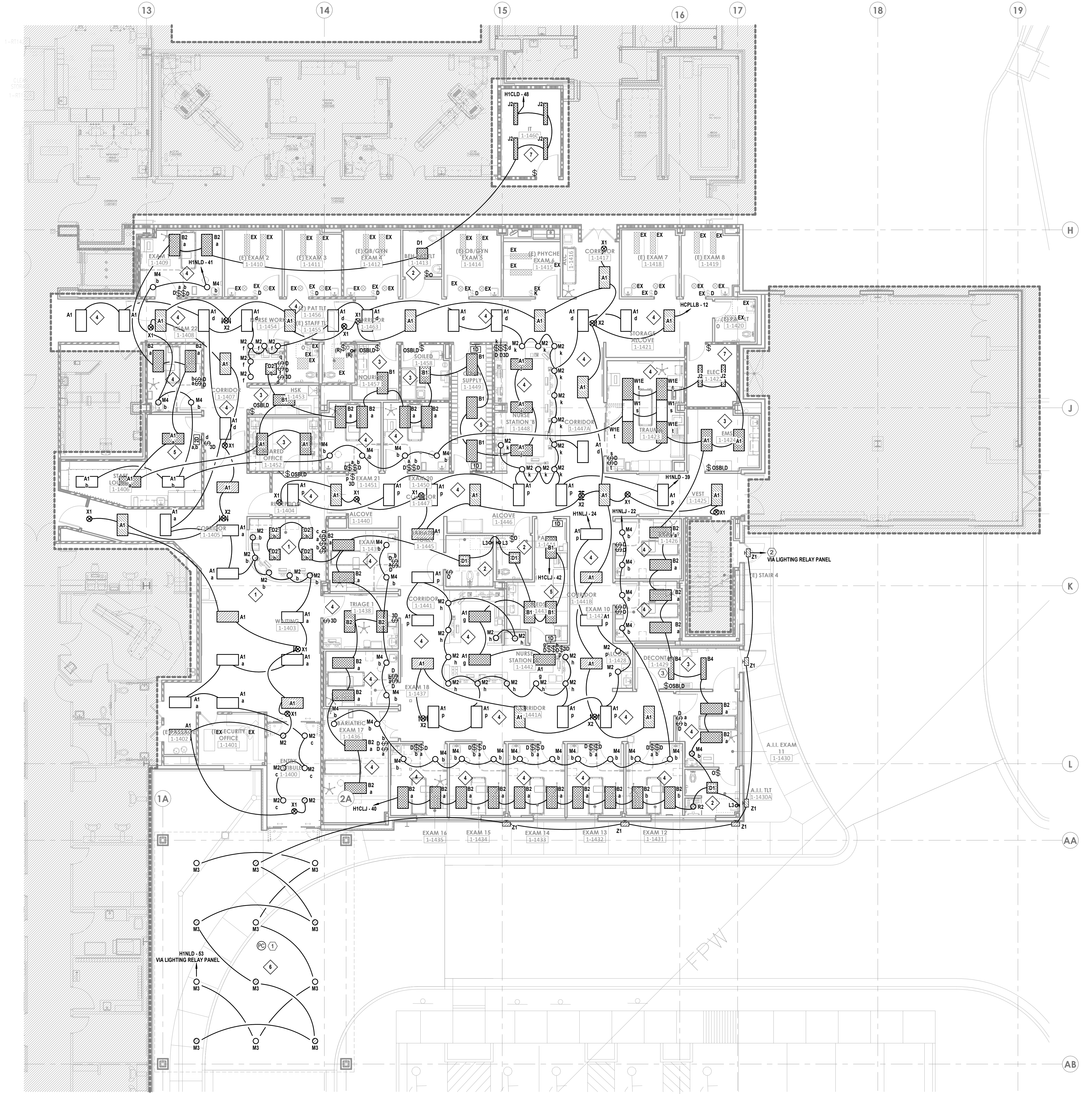
E03-00

1 FLOOR PLAN - LEVEL 01 - SITE LIGHTING - PHOTOMETRICS  
1/8" = 1'-0"

LEVEL 1 - KEYPLAN



1 FLOOR PLAN - LEVEL 01 - LIGHTING  
1/8" = 1'-0"

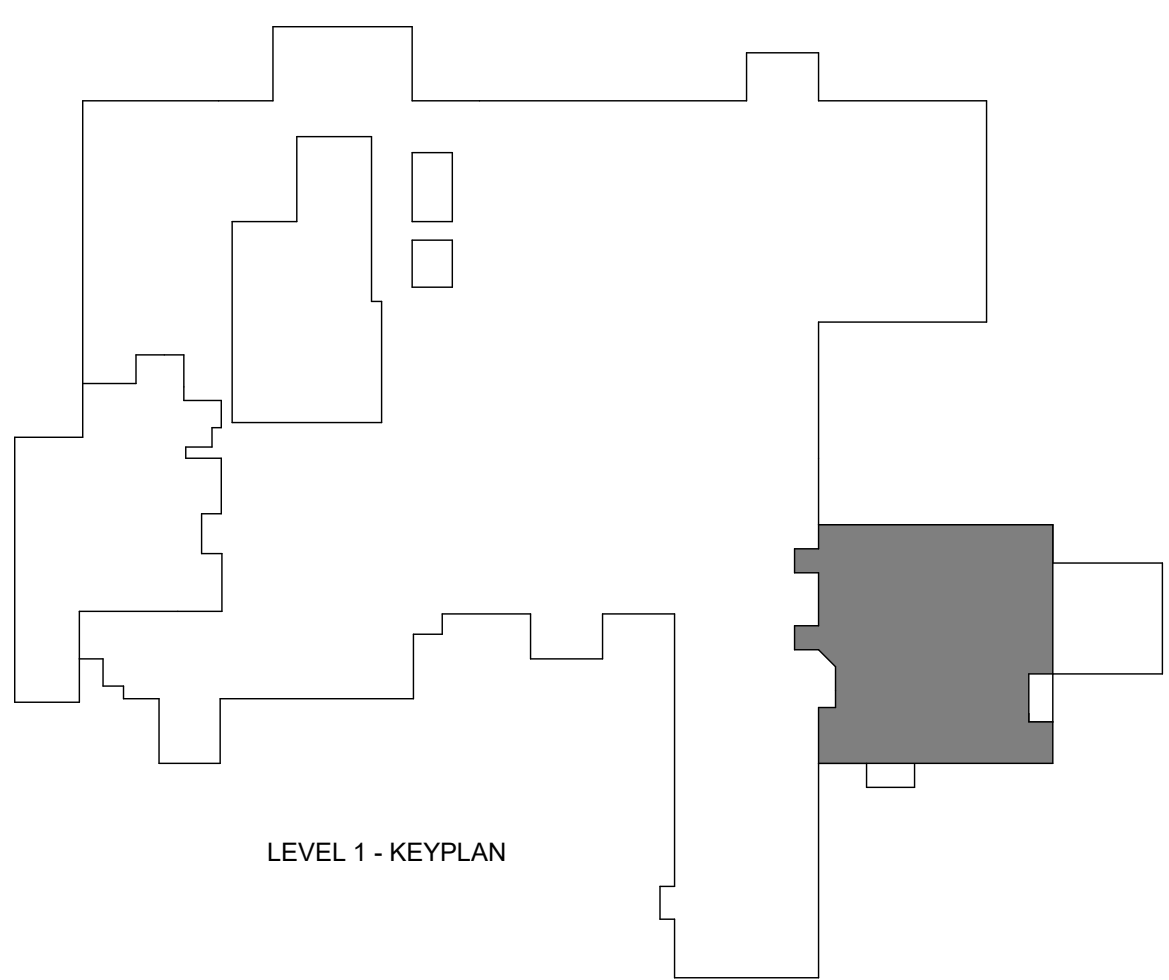


## GENERAL NOTES

- REFER TO AND COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, EQUIPMENT VENDOR DRAWINGS AND DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHT OF ALL WIRING DEVICES.
- REFER TO SHEET E03-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES.
- REFER TO SHEET E08-01 FOR LIGHT FIXTURE SCHEDULES.
- CONTRACTORS SHALL USE FMC TRANSITIONS FROM EMT AT BUILDING EXPANSION JOINTS WHEN APPLICABLE. FMC ROUTING SHALL BE PROVIDED TO ALLOW LATERAL AND VERTICAL ADJUSTMENTS IN LINE WITH COORDINATE EXACT LOCATIONS OF EXPANSION JOINTS WITH ARCHITECTURAL DRAWINGS.

## LEGEND NOTES

- REFER TO LIGHTING CONTROL SCHEDULE ON E08-01. COORDINATE LOCATION OF PHOTOCELL WITH THE ARCHITECT.
- CONNECT TO EXISTING EXTERIOR LIFE SAFETY CIRCUIT AND CONTROL, PREVIOUSLY SERVING THIS AREA.
- DEVICES IN DECONTAMINATION ROOM SHALL BE PROVIDED WITH A WEATHERPROOF ENCLOSURE.



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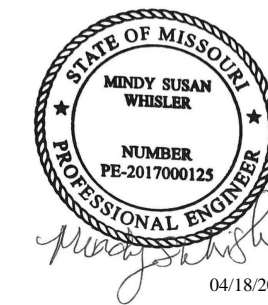
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FLOOR PLAN - LEVEL 01 -  
LIGHTING

E03-01



1 FLOOR PLAN - LEVEL 01 - SPECIAL SYSTEMS  
1/8" = 1'-0"

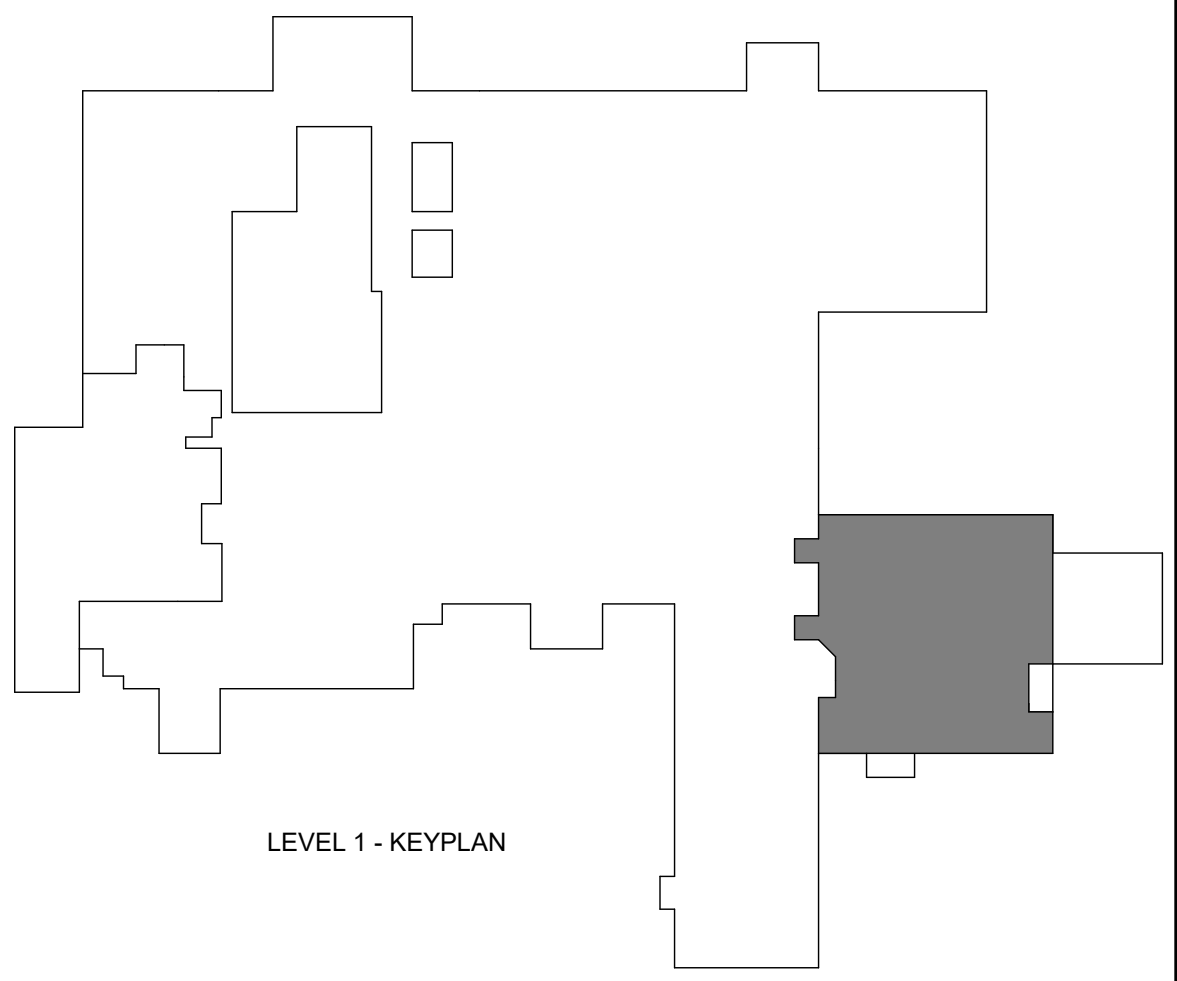


## GENERAL NOTES

- A. REFER TO SHEET E00-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES.
- B. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO FIB DAMPERS, VAV BOXES, FCUS ETC. WITH MECHANICAL DRAWINGS AND DIV 23 CONTRACTOR.
- C. DO NOT SCALE DEVICE LOCATIONS FROM THESE DRAWINGS. REFER TO AND COORDINATE WITH THE ARCHITECTURAL DOCUMENTS. SPECIFICALLY, REFER TO ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR SPECIALTY.
- D. DELEGATED DESIGN OF FIRE ALARM. REFER TO DIVISION 28 SPECIFICATION SECTION FOR ADDITIONAL SYSTEM REQUIREMENTS. FIRE ALARM INITIATING DEVICES, NOTIFICATION APPLIANCES, CONTROL PANELS, ANNUNCIATOR PANELS, AND OTHER PERIPHERAL DEVICES SHOWN ON THESE DOCUMENTS DO NOT CONSTITUTE THE TOTAL QUANTITY OR TYPE OF DEVICES REQUIRED FOR THE WORK. THE DEVICES AND EQUIPMENT INDICATED ON THESE DOCUMENTS IS SHOWN FOR THE PURPOSE OF COORDINATION ONLY. THESE DRAWINGS AND THE ACCOMPANYING SPECIFICATIONS DEFINE THE SCOPE AND INTENT OF THE FIRE ALARM SYSTEM TO BE PROVIDED IN THE WORK. IN ADDITION TO THE SYSTEM AS SHOWN HEREIN AND SPECIFIED IN THE PROJECT MANUAL, THE LICENSED FIRE ALARM CONTRACTOR SHALL PROVIDE ALL PLANNING, DESIGN, CALCULATIONS, EQUIPMENT, DEVICES, RACEWAYS, BOXES, CABLING, SYSTEM PROGRAMMING AND ANY OTHER COMPONENT OR SERVICE REQUIRED FOR A COMPLETE, FULLY OPERATIONAL SYSTEM THAT MEETS ALL SPECIFIED REQUIREMENTS AND LOCAL CODES.
- E. SMOKE DETECTOR SPACING FOR AREAS WHICH ARE INDICATED TO HAVE SMOKE DETECTOR COVERAGE THAT DO NOT HAVE A SUSPENDED CEILING (I.E. OPEN TO STRUCTURE), PROVIDE ONE DETECTOR PER STRUCTURAL POCKET TO MEET REQUIREMENTS OF NFPA 72. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES AND TO STRUCTURAL SLAB DETAILS FOR SLAB DEPRESSIONS THAT MAY CAUSE CONDITIONS REQUIRING ADDITIONAL DETECTORS.
- F. DETECTORS AT DAMPERS: PROVIDE A DUCT MOUNTED SMOKE DETECTOR AT ALL SMOKE AND COMBINATION FIRE/SMOKE DAMPER LOCATIONS. EACH DAMPER SHALL HAVE A DISCRETE RELAY LOCATED WITHIN 3 FT. OF THE CONTROLLING COMPONENT; COMMON RELAYS ARE NOT ACCEPTABLE. EXACT DEVICE QUANTITIES AND LOCATIONS FOR DAMPERS ARE SHOWN ON MECHANICAL DRAWINGS. REFER TO AND COORDINATE WITH DIVISION 23 DOCUMENTS, APPROVED SHOP DRAWINGS AND SUBMITTALS AND BETWEEN TRADES WITH HVAC INSTALLER PRIOR TO ROUGH-IN. REFER TO DIVISION 23 AND 28 SPECIFICATIONS AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- G. PROVIDE APPROPRIATE EQUIPMENT AND CONNECTION(S) REQUIRED TO RELEASE DOOR HOLDERS UPON ALARM SIGNAL FROM THE FIRE ALARM CONTROL PANEL.
- H. PROVIDE EQUIPMENT AND CONNECTION(S) REQUIRED TO MONITOR KITCHEN HOOD SUPPRESSION SYSTEM(S).

## LEGEND NOTES

- 1 EXISTING FIRE ALARM DEVICES TO REMAIN.
- 2 DEVICES IN DECONTAMINATION ROOM SHALL BE PROVIDED WITH A WEATHERPROOF ENCLOSURE.



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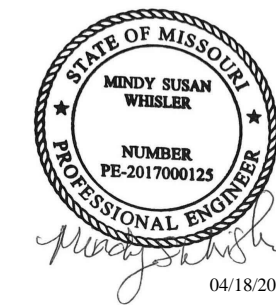
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FACILITY NUMBER:  
0972400011

AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

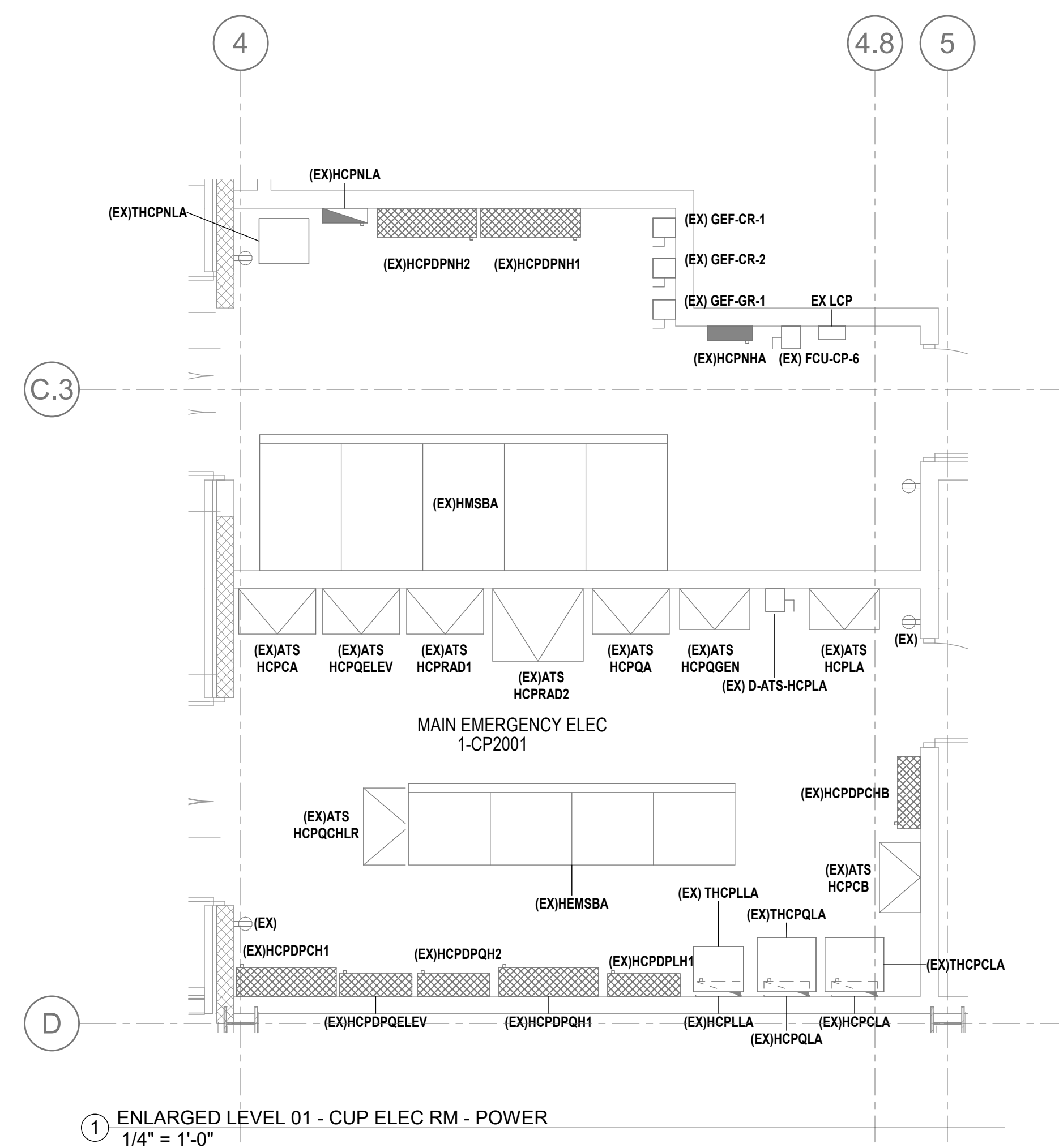
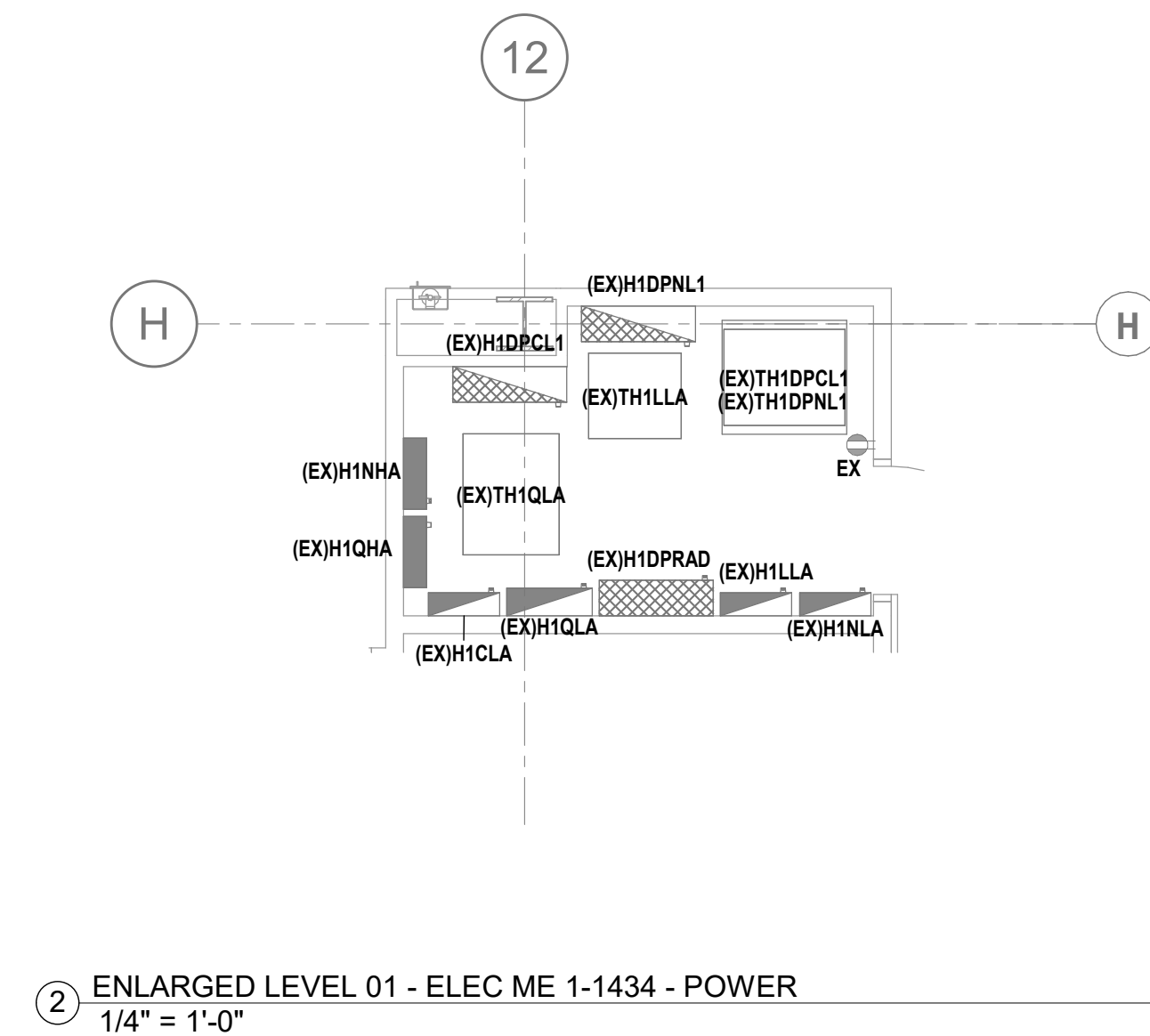
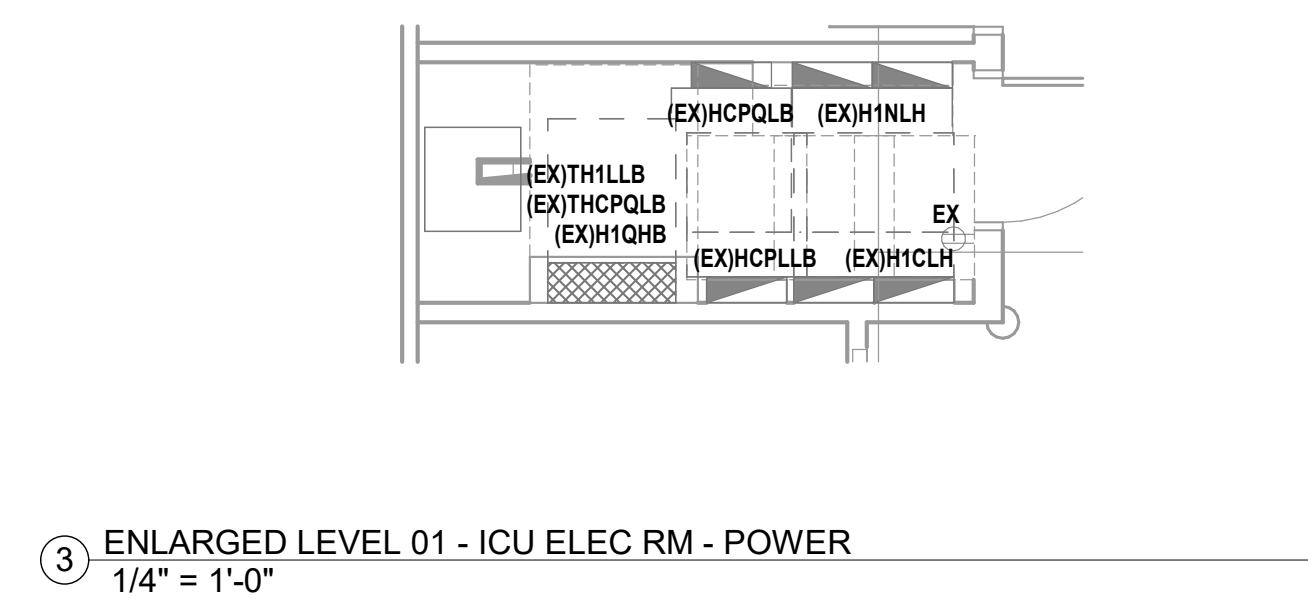
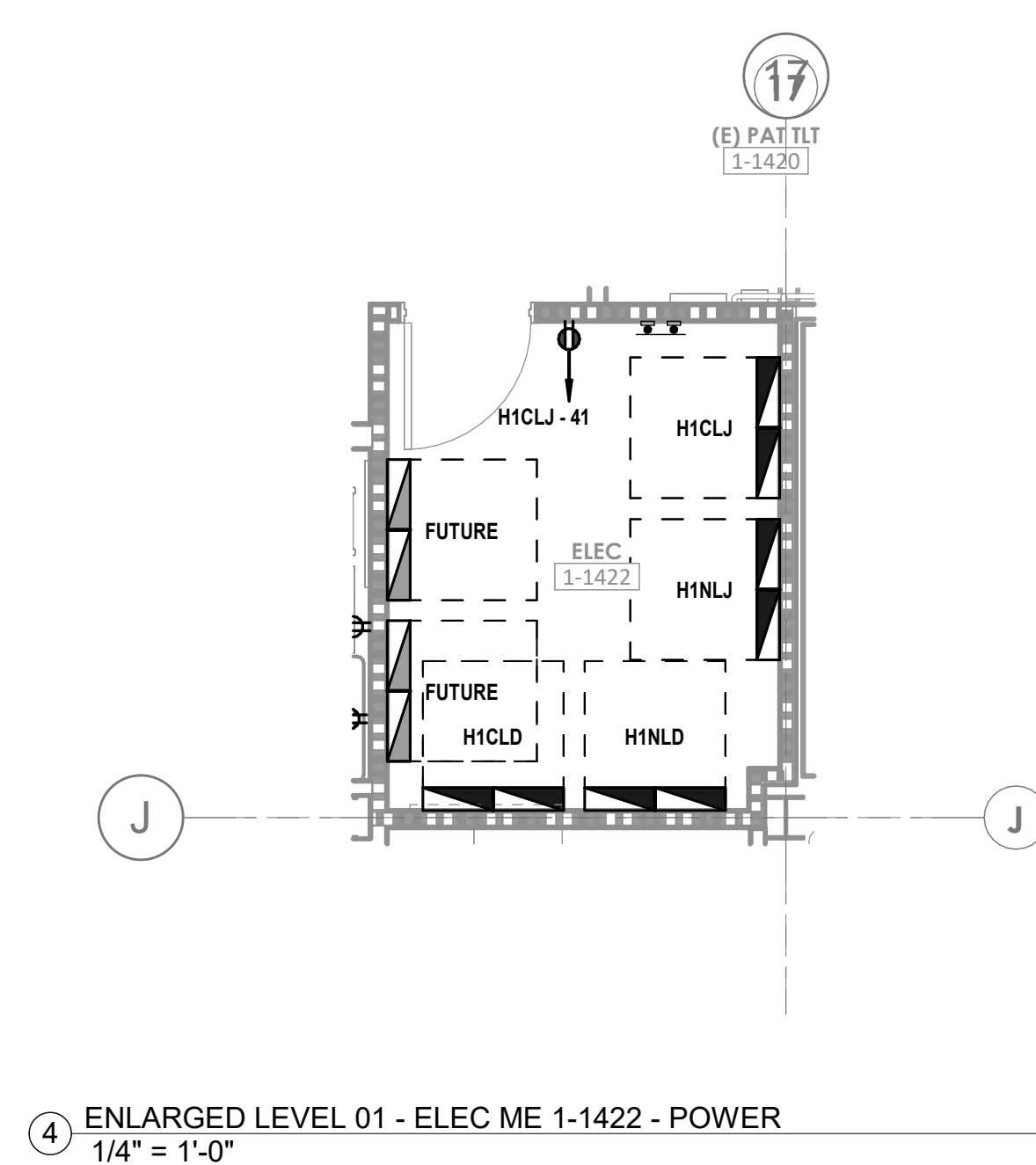
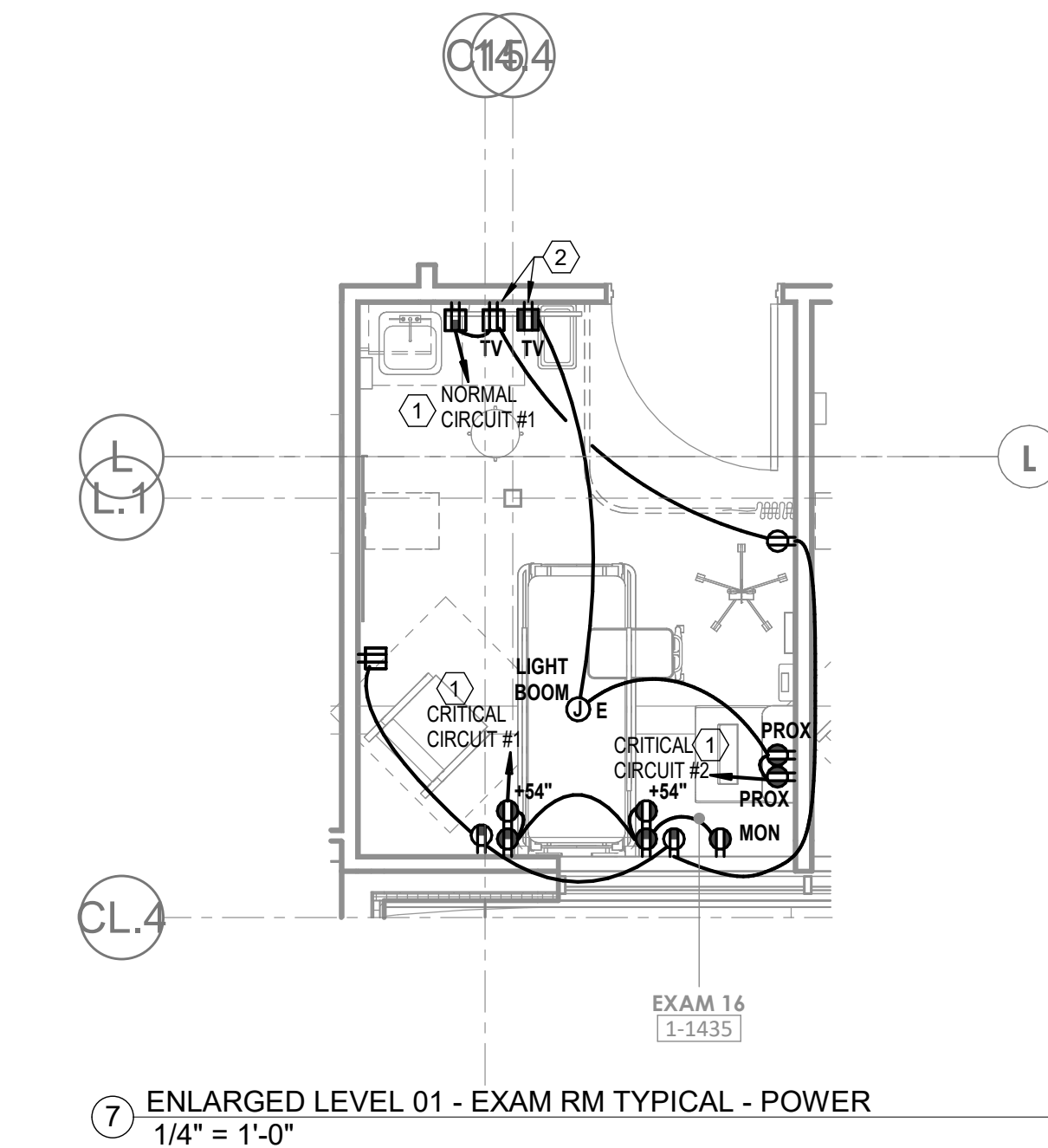
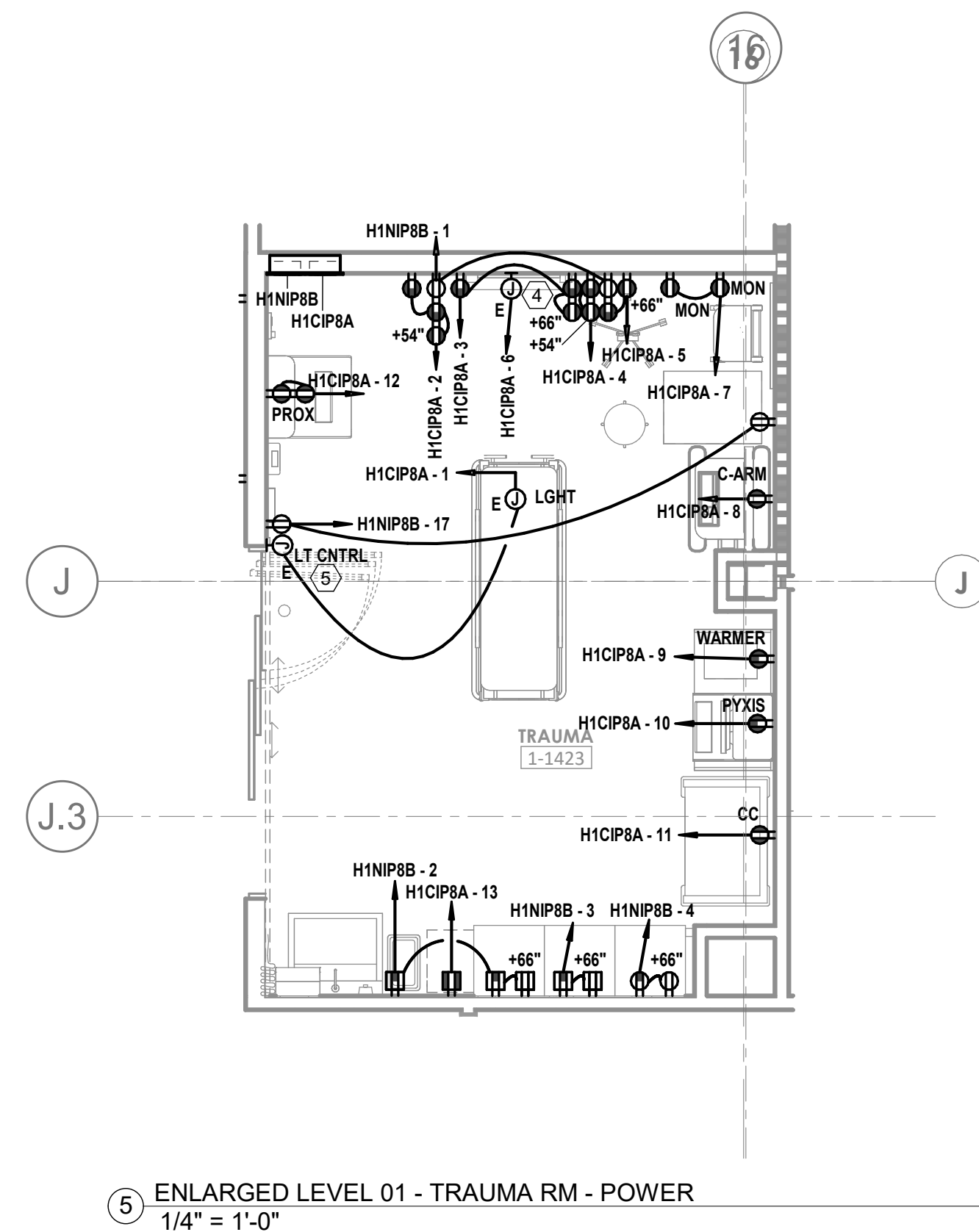
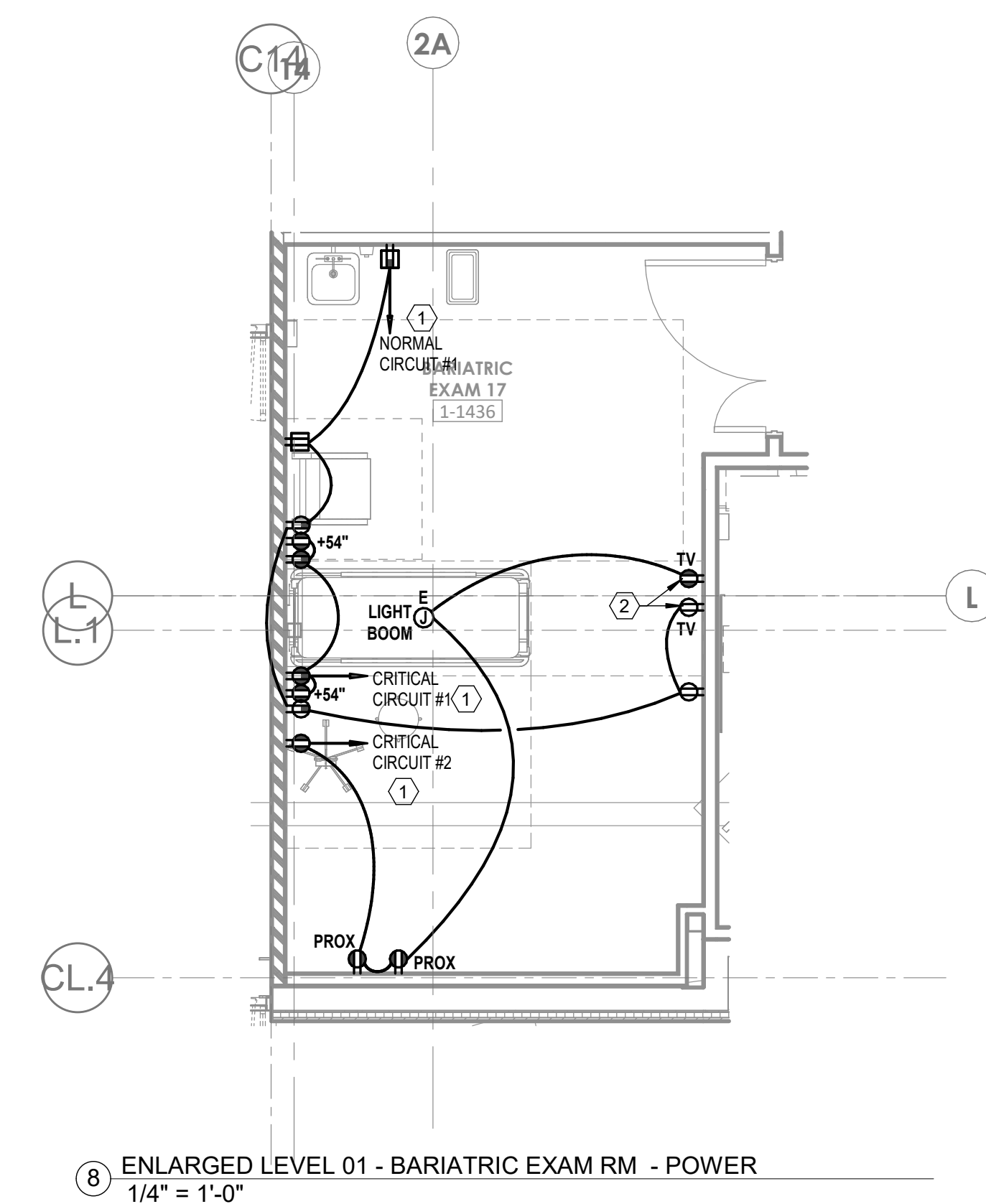
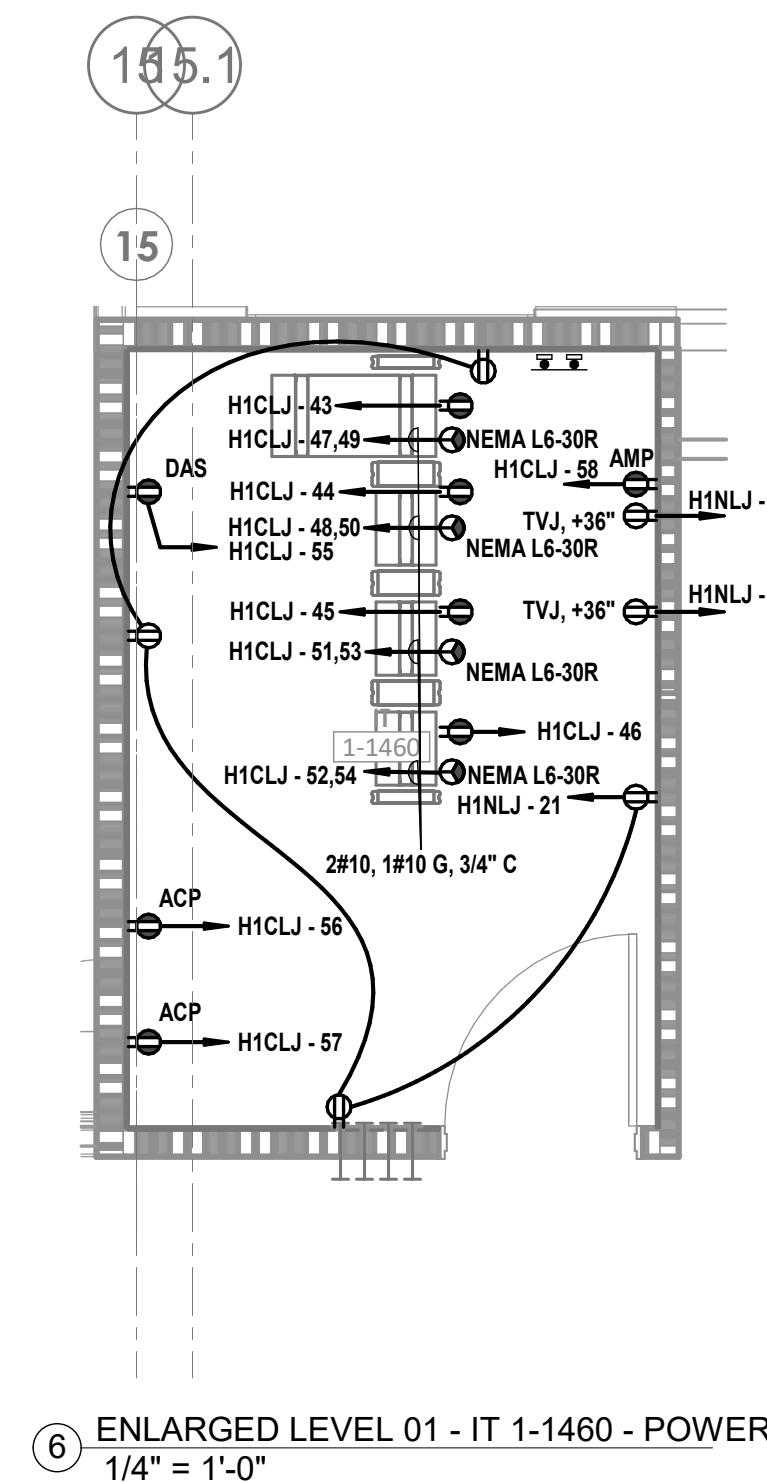
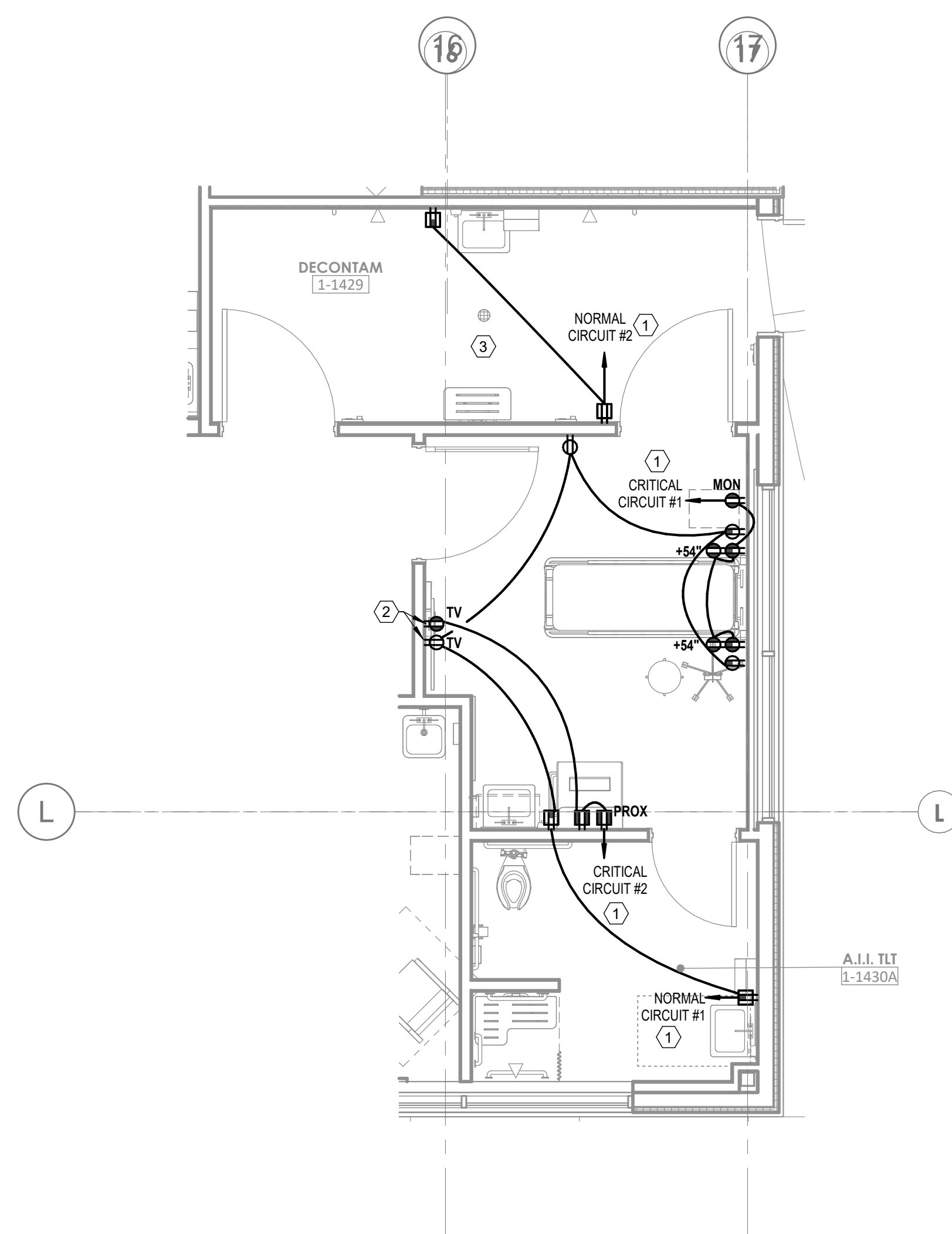
DATE: 04/18/25  
SCALE: 1/8" = 1'-0"  
DRAWN: WSP  
REVIEWED: WSP  
JOB NUMBER: U50040241.3707

FLOOR PLAN - LEVEL 01 -  
SPECIAL SYSTEMS

E04-01

4/22/2025 11:22:37 AM Autodes Doc./P4026-24 - HCA - Lee's Summit Medical Center (LSMC) - RY23(MED) - LSME ED Expansion, R23.rvt 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.





## GENERAL NOTES

- A. REFER TO SHEET E00-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES
- B. REFER TO SHEET E08 SERIES FOR FEEDER AND PANELBOARD SCHEDULES.
- C. REFER TO AND COORDINATE WITH THE ARCHITECTURAL PLANS, ELEVATIONS, EQUIPMENT VENDOR DRAWINGS AND DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES
- D. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO: SMOKE DAMPERS, FIRE/SMOKE DAMPERS, VAV BOXES, FCUS, ETC. WITH MECHANICAL DRAWINGS AND THE MECHANICAL CONTRACTOR
- E. COORDINATE LOCATIONS OF ALL DISCONNECTS, CONTROL PANELS, AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES.

## LEGEND NOTES

- 1 REFER TO E02 SERIES FLOOR PLANS FOR SPECIFIC PANELBOARD CIRCUITING.
- 2 DEVICE(S) TO BE LOCATED IN TV BACK-BAY. REFER TO TECHNOLOGY DRAWINGS FOR SPECIFICATION AND DETAILS. COORDINATE EXACT LOCATION WITH MONITOR TV MOUNTING BRACKET. REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS FOR BRACKET MOUNTING HEIGHT AND EXACT LOCATIONS PRIOR TO ROUGH-IN.
- 3 DEVICES IN DECONTAMINATION ROOM SHALL BE PROVIDED WITH A WEATHERPROOF ENCLOSURE.
- 4 FLUORESCENT LIGHT ELAPSED TIME CLOCK W/AVE TO PRIMEX #8207Y02ZF WITH REMOUNTED START-STOP-RESET CONTROL. COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
- 5 FLUORESCENT MOUNT BOX FOR LIGHT CONTROLLER. ROUTE 1" FROM CONTROLLER TO SURGICAL LIGHT.

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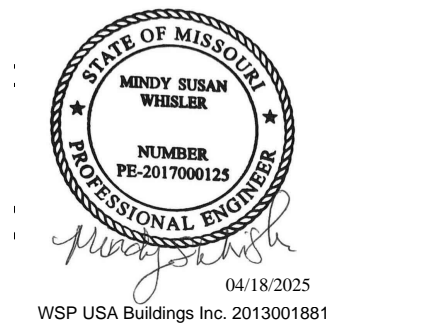
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Consultant:

wsp |

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## ED EXPANSION

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**MISSOURI DHSS**

FACILITY NUMBER:  
**0972400011**

AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	As indicated
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

## ENLARGED FLOOR PLAN

E05-01





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ONE LINE DIAGRAM -  
NORMAL - DEMO

E06-01

## LEGEND NOTES

- EXISTING LOAD IS BASED ON DESIGN LOAD FROM AN ONGOING PROJECT AT THE FACILITY.
- EXISTING 1500KVA UTILITY TRANSFORMER TO BE DEMOLISHED. EXTEND AND RECONNECT FEEDERS TO NEW UTILITY TRANSFORMER.
- EXISTING PANELBOARD W/INLT TO BE DEMOLISHED AND EXISTING LOADS REMAINING TO BE RECONNECTED TO NEW PANELBOARD W/INLT, UNLESS NOTED OTHERWISE. TRANSFER AND CONNECT LOADS ONE AT A TIME IN COORDINATION WITH THE FACILITY. EXISTING BRANCH CONDUCTORS AND CONDUIT TO REMAIN AND SPlice WITH NEW CONDUCTOR TO EXTEND TO NEW PANELBOARD.

EXIST: 'HMSBA' LOAD SUMMARY						
		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)	PANEL TOTALS	
BRANCH:	NORMAL	LIGHT	7,817	5,772	KVA	AMPS
EQUIPMENT TYPE:	SWITCHBOARD	MISC.	4,100	6,790	EXISTING CONNECTED LOAD:	1986
BUSS RATING:	3000 A	MTBR	97,849	88,553	REMOVED CONNECTED LOAD:	83.2
PANEL LUGS:	MLO	RCPT	183,140	98,879	ADDED CONNECTED LOAD:	186.1
VOLTAGE:	480/277 WYE				TOTAL CONNECTED LOAD:	2979.9
WIRE:	4W + G				TOTAL ESTIMATED DEMAND:	2648.1
ARC AVAILABLE:	36800 A					
ARC RATING:	6000 A					

EXIST: 'HCPDPNH1' LOAD SUMMARY						
		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)	PANEL TOTALS	
BRANCH:	NORMAL	LIGHT	2,466	3,392	KVA	AMPS
EQUIPMENT TYPE:	DIST. PANELBOARD	RCPT	30,125	24,660	EXISTING CONNECTED LOAD:	291
BUSS RATING:	800 A				REMOVED CONNECTED LOAD:	15.4
PANEL LUGS:	MLO				ADDED CONNECTED LOAD:	41.6
VOLTAGE:	480/277 WYE				TOTAL CONNECTED LOAD:	317.2
WIRE:	4W + G				TOTAL ESTIMATED DEMAND:	303.3
AIC AVAILABLE:	35700 A					364.6
AIC RATING:	6000 A					

EXIST: 'H1DPNL1' LOAD SUMMARY						
		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)	PANEL TOTALS	
BRANCH:	NORMAL	LIGHT	2,466	3,392	KVA	AMPS
EQUIPMENT TYPE:	DIST. PANELBOARD	RCPT	31,140	23,970	EXISTING CONNECTED LOAD:	139.3
BUSS RATING:	800 A				REMOVED CONNECTED LOAD:	15.4
PANEL LUGS:	MLO				ADDED CONNECTED LOAD:	36.6
VOLTAGE:	120/208 WYE				TOTAL CONNECTED LOAD:	169.5
WIRE:	4W + G				TOTAL ESTIMATED DEMAND:	159.6
ARC AVAILABLE:	6944 A					453.9
ARC RATING:	10000 A					381.7









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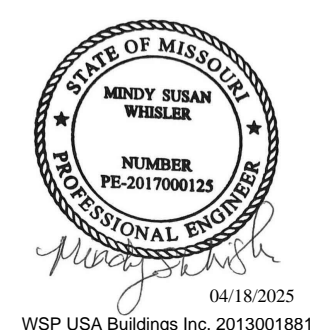
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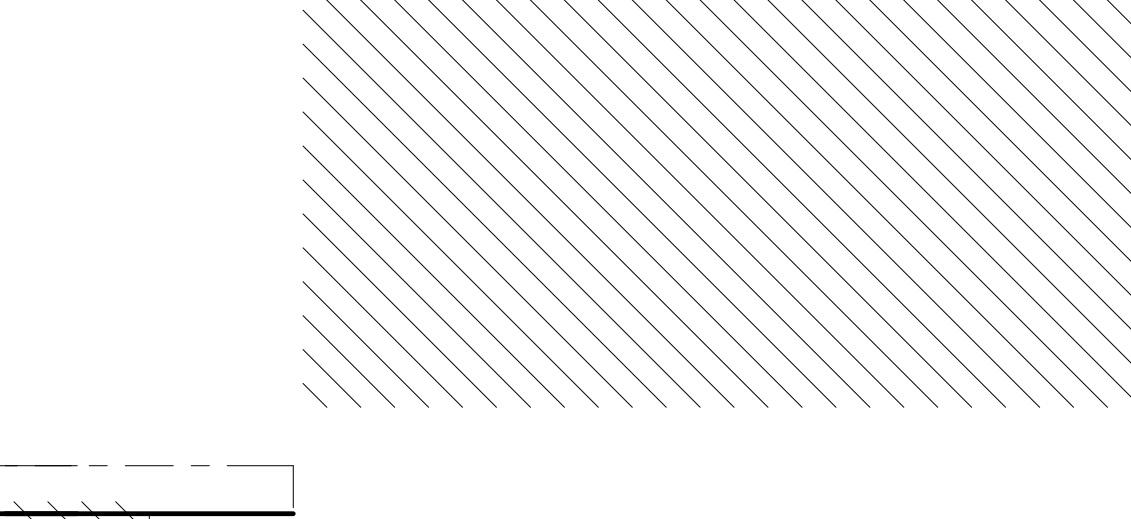
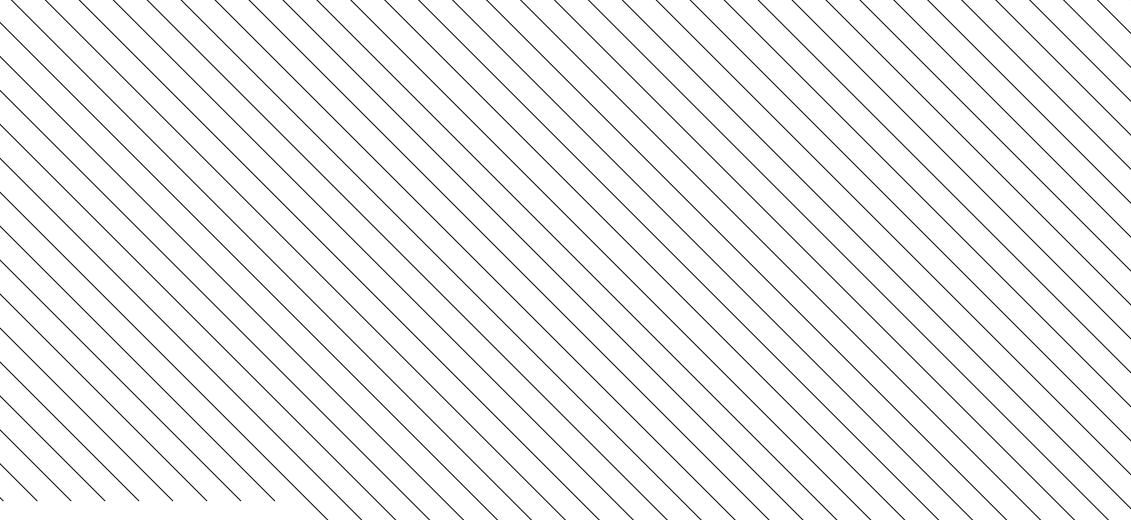
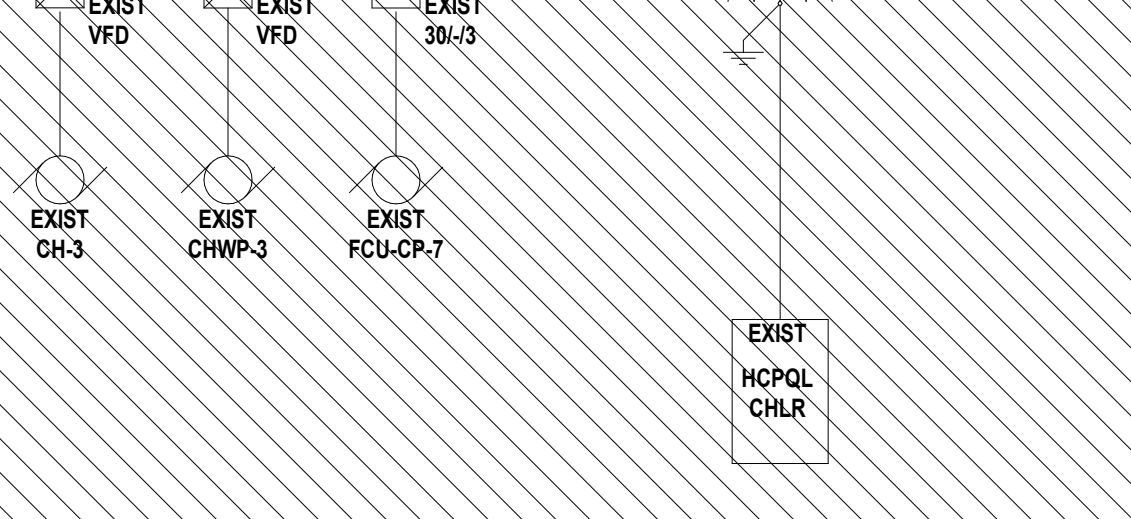
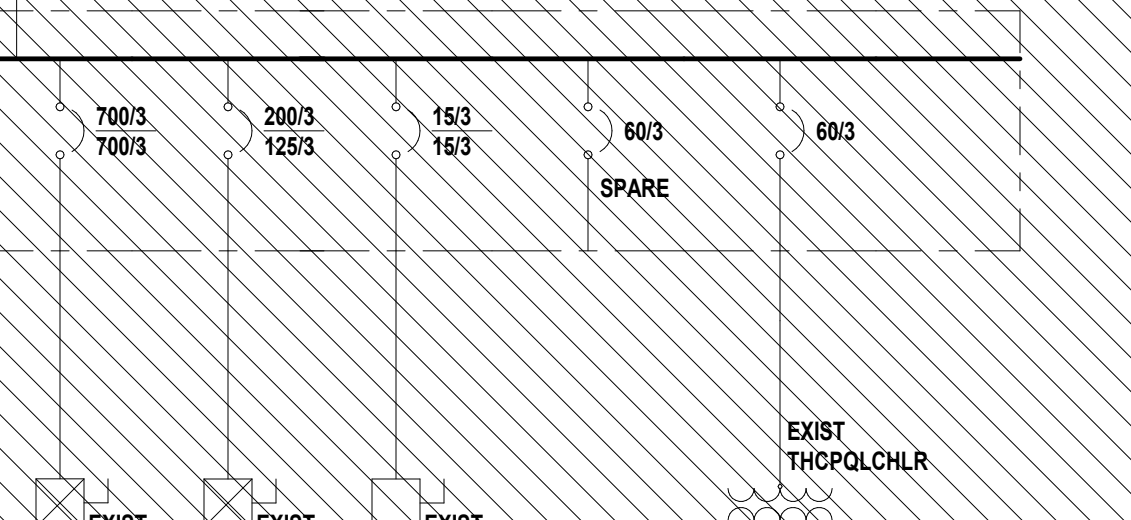
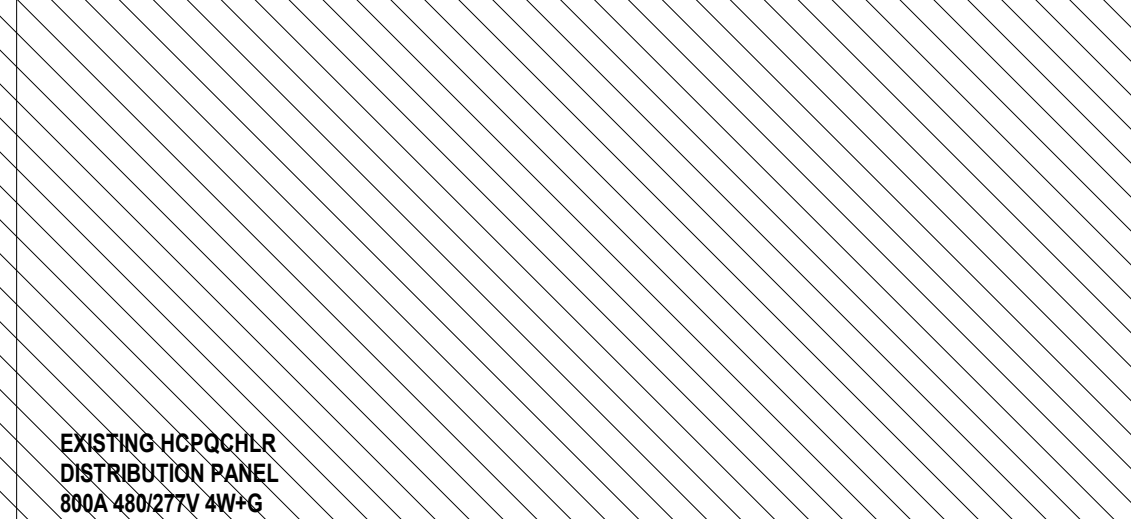
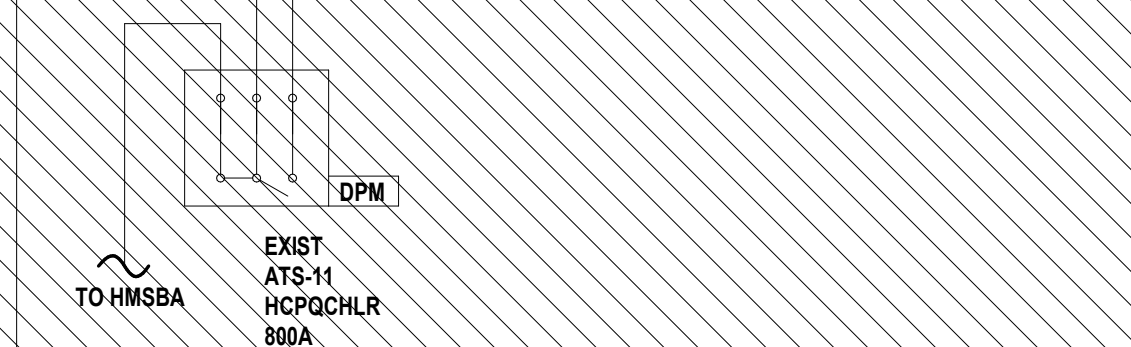
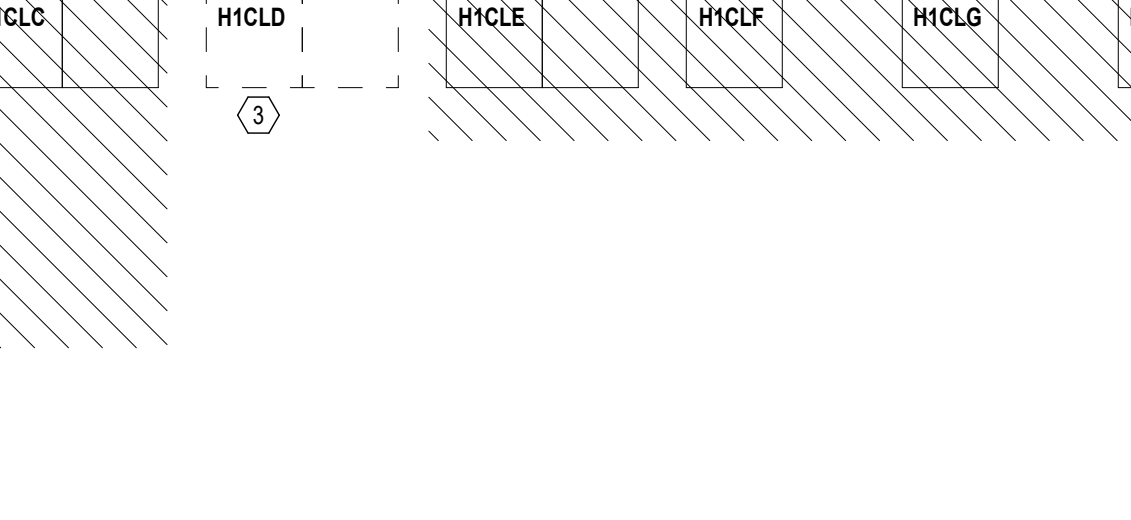
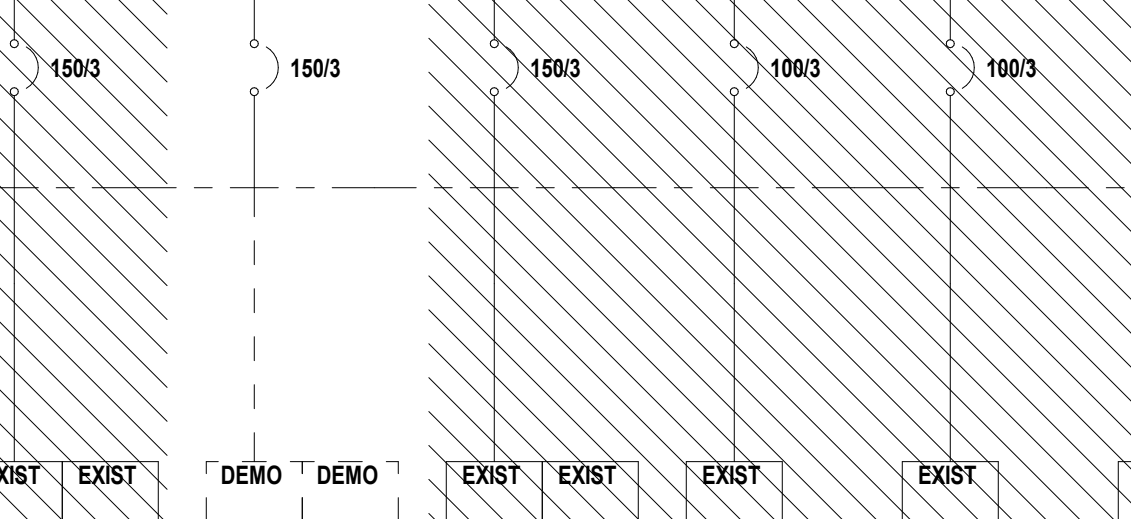
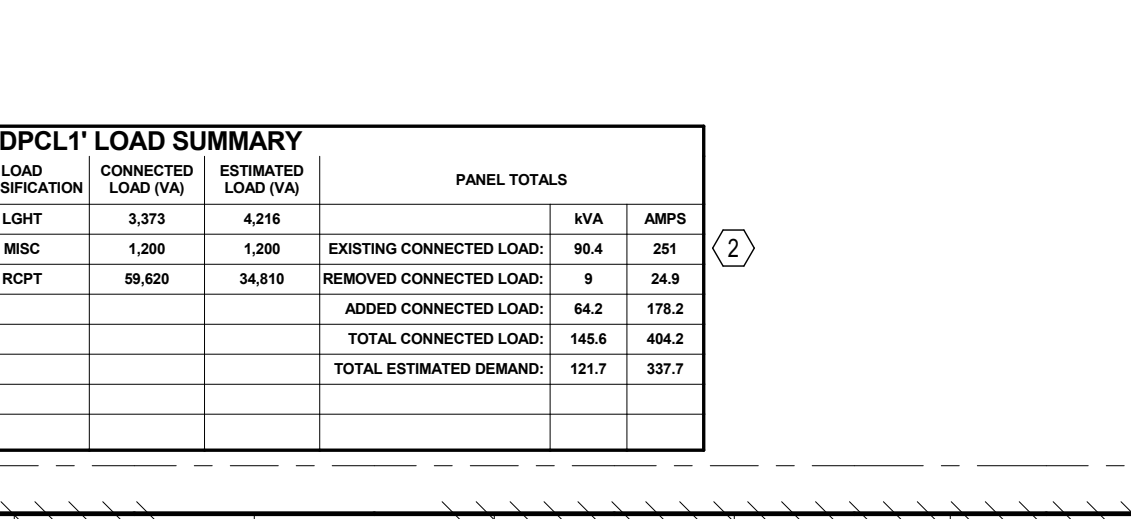
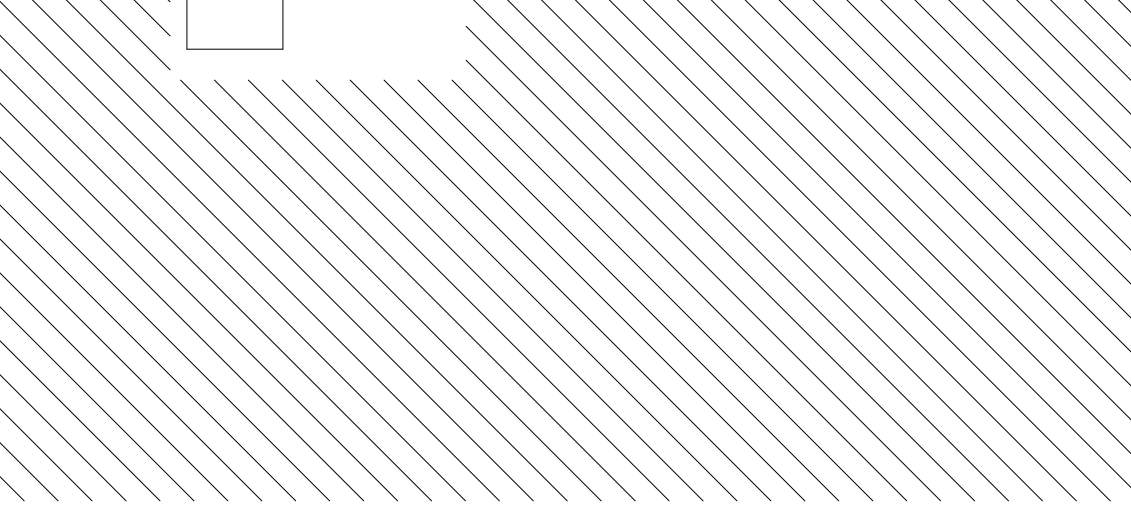
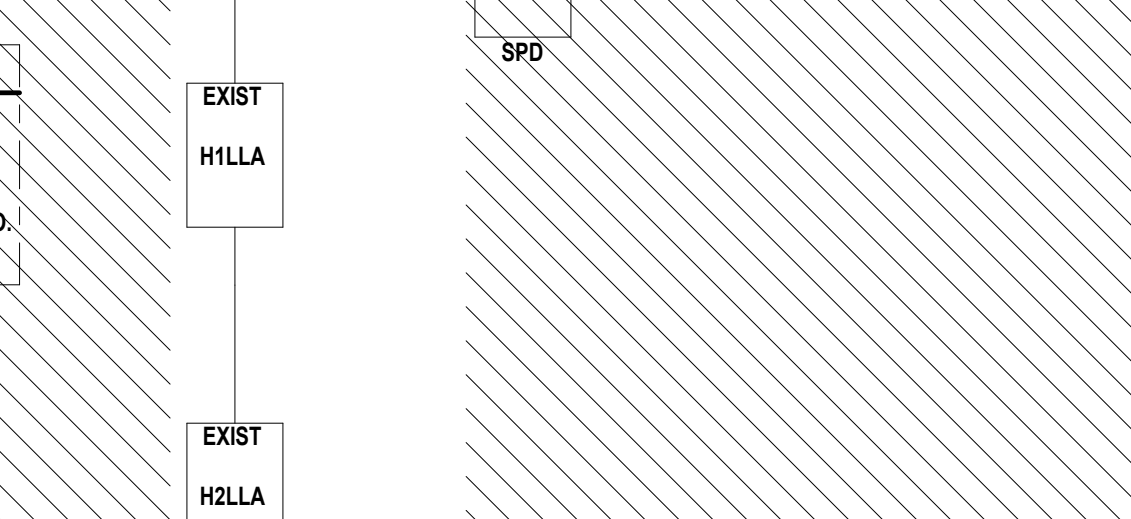
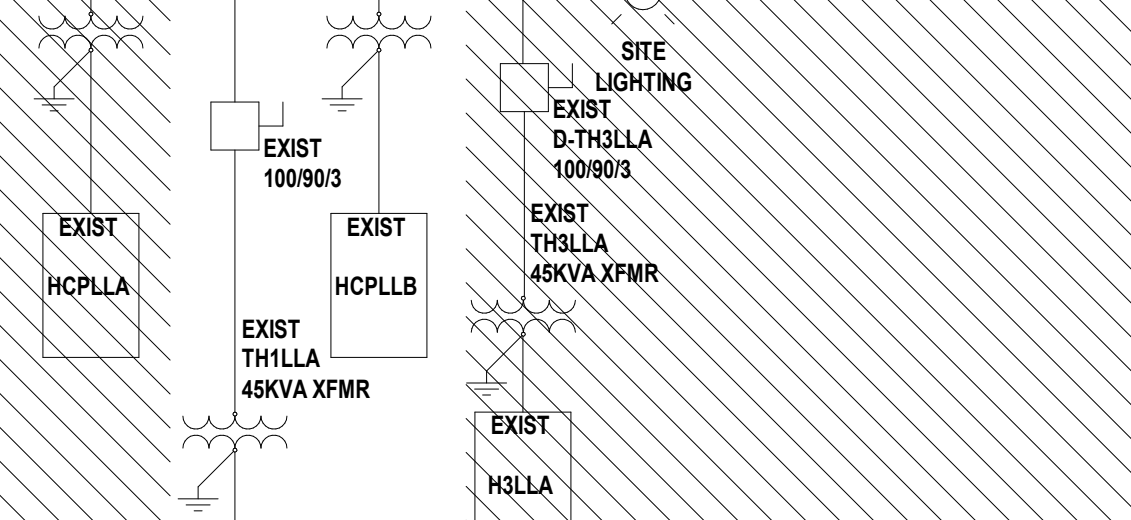
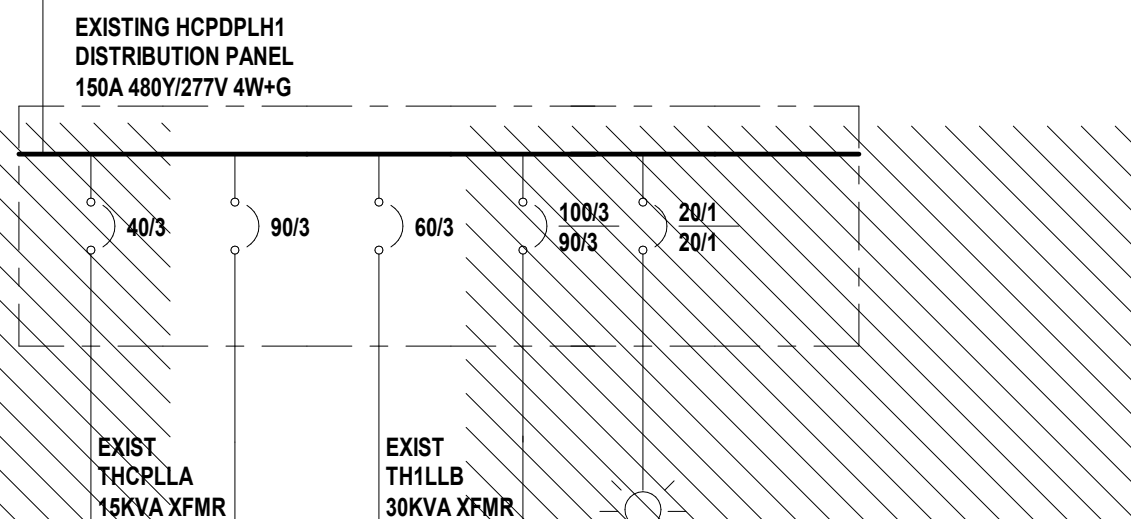
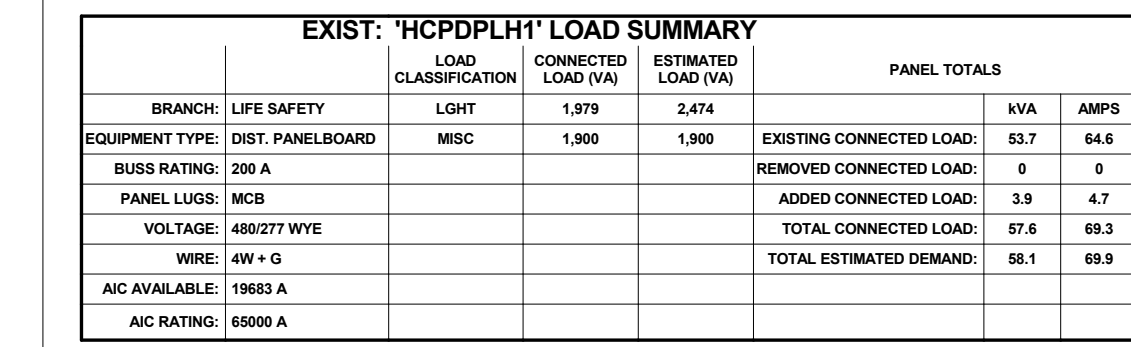
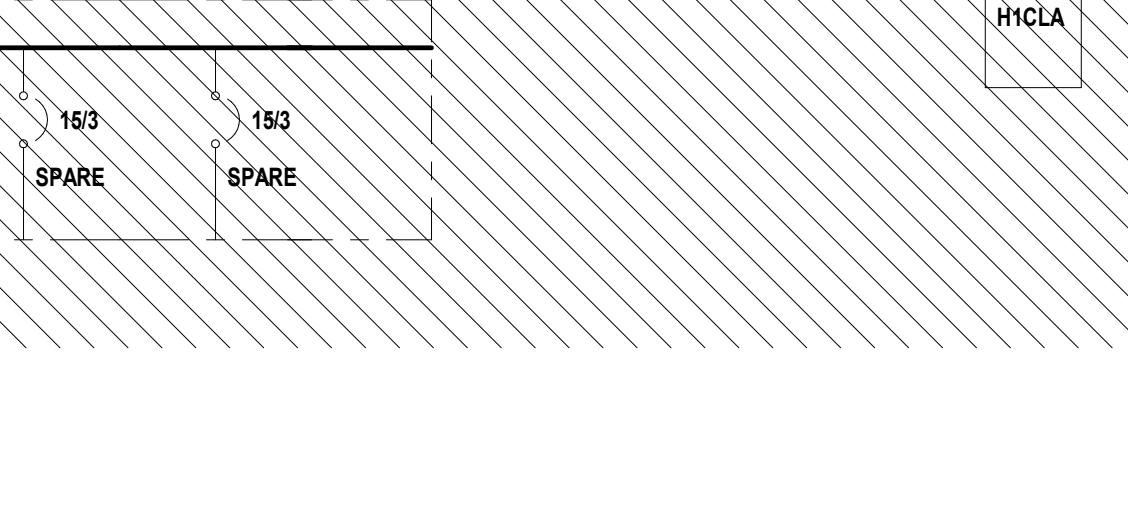
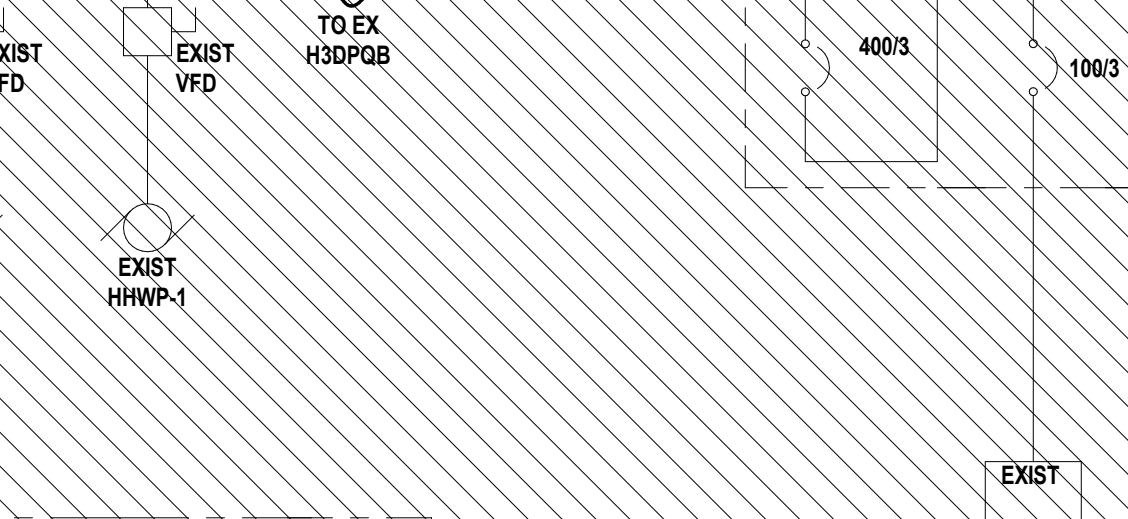
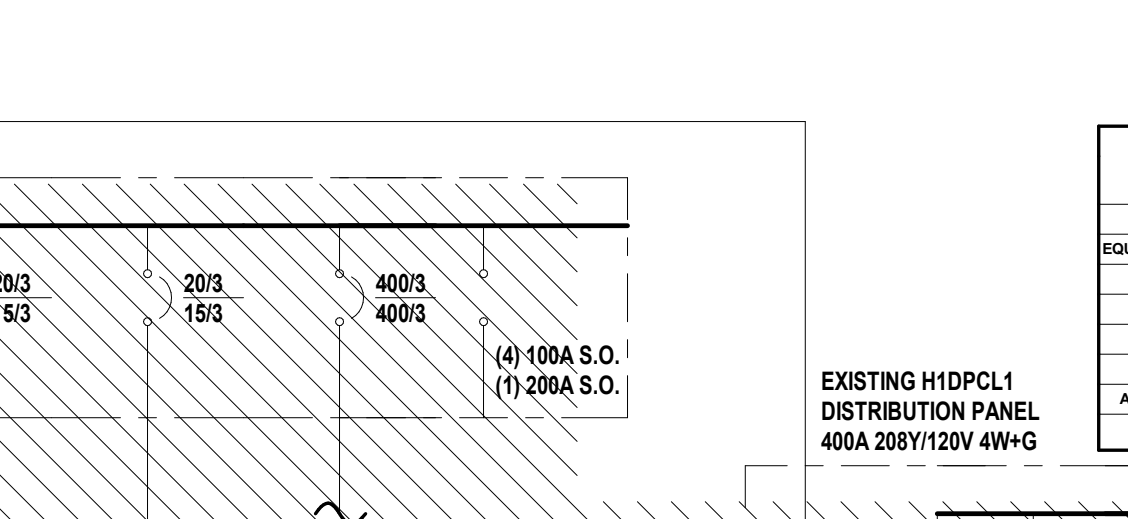
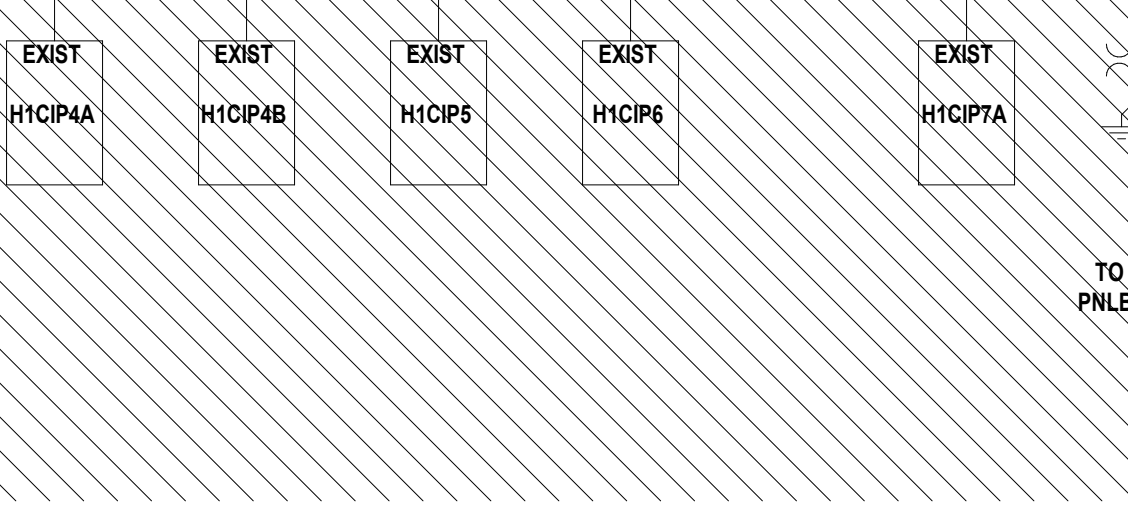
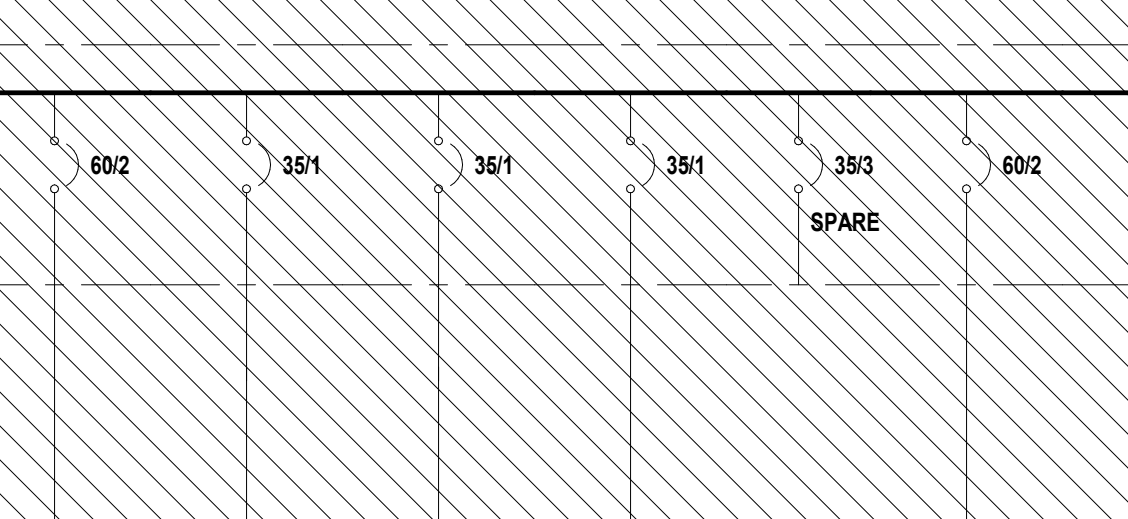
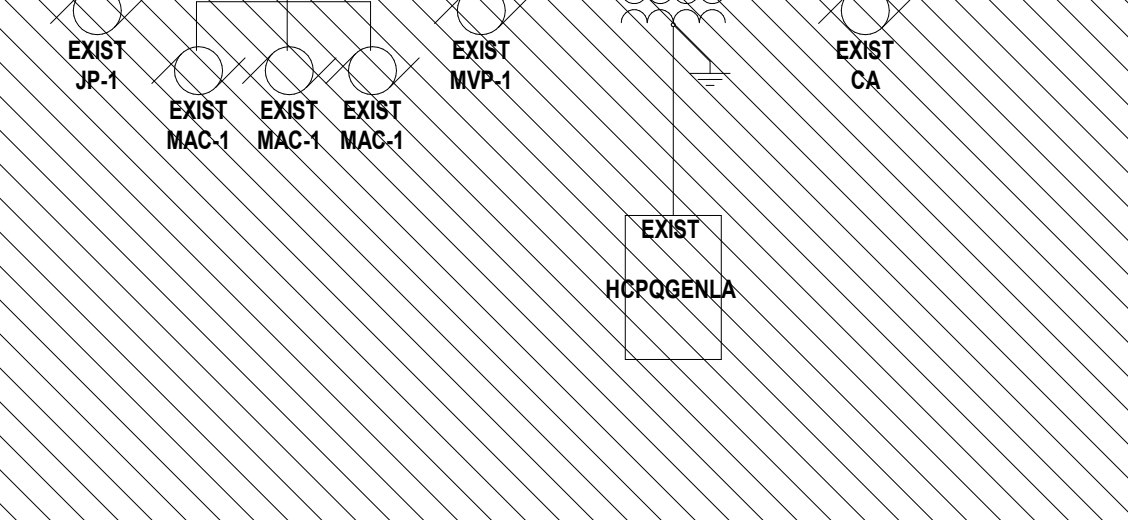
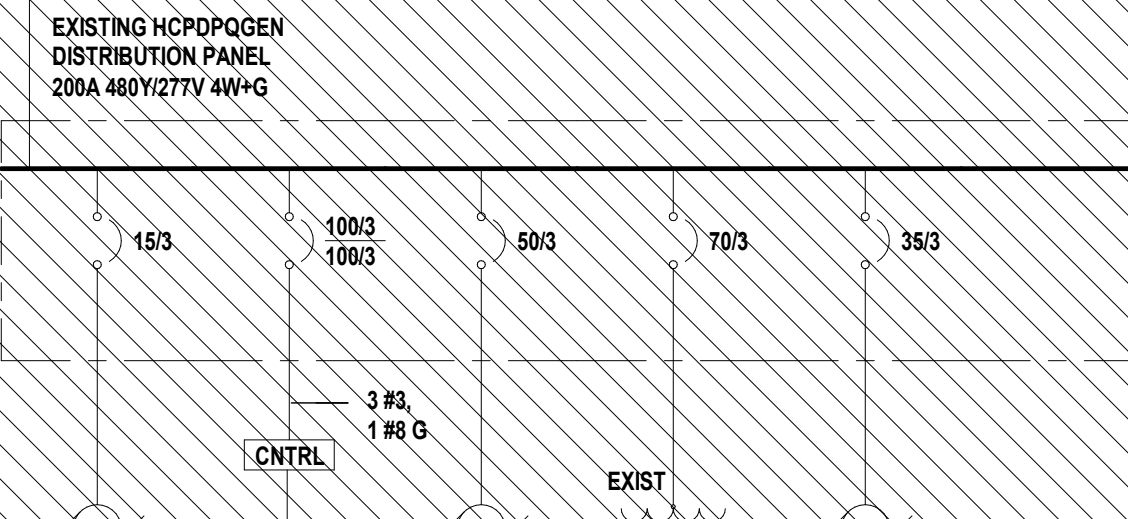
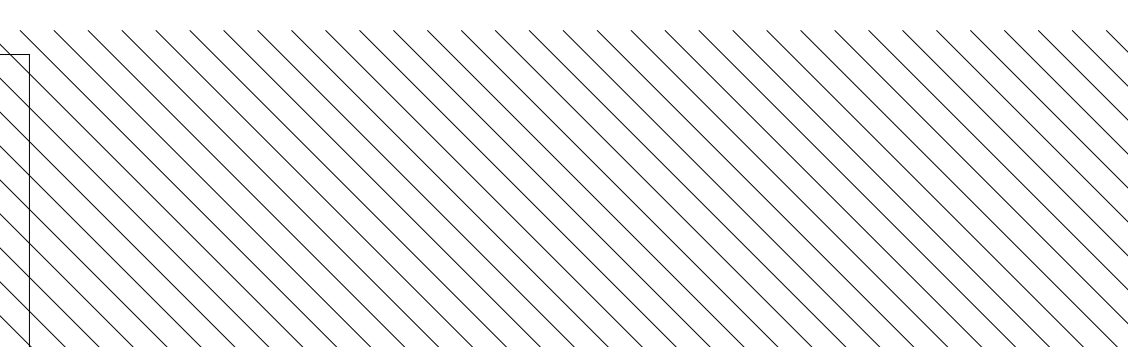
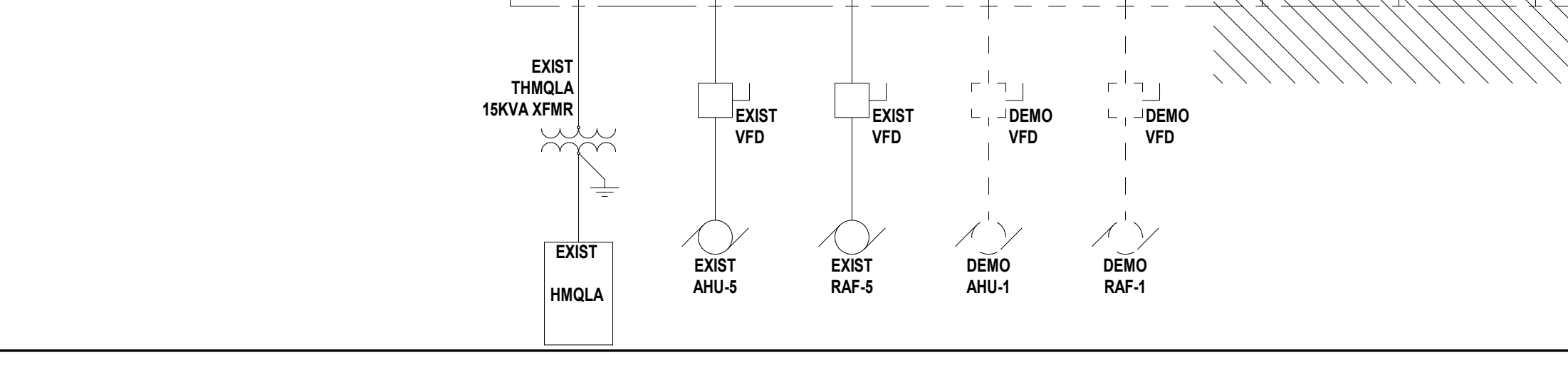
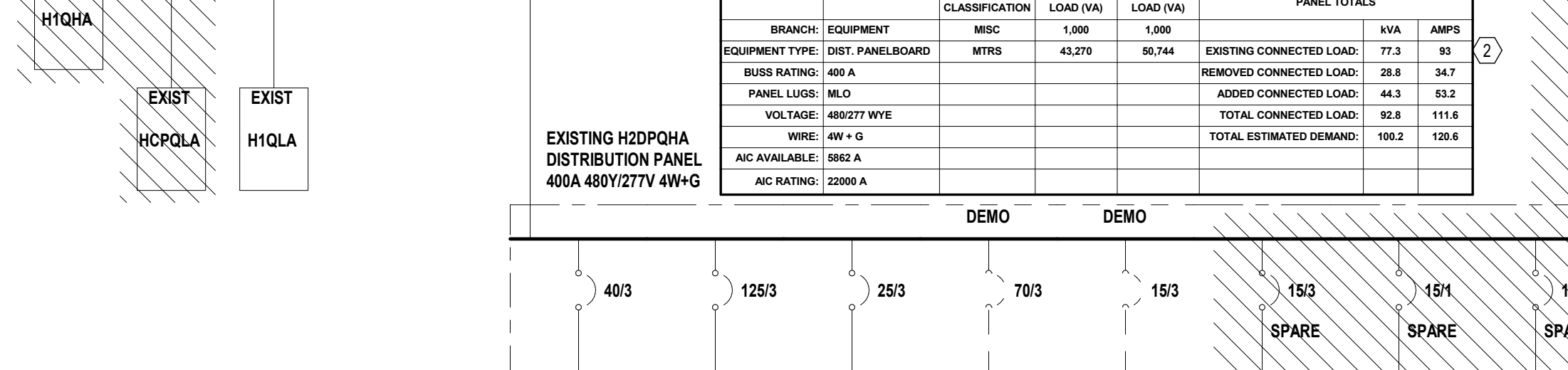
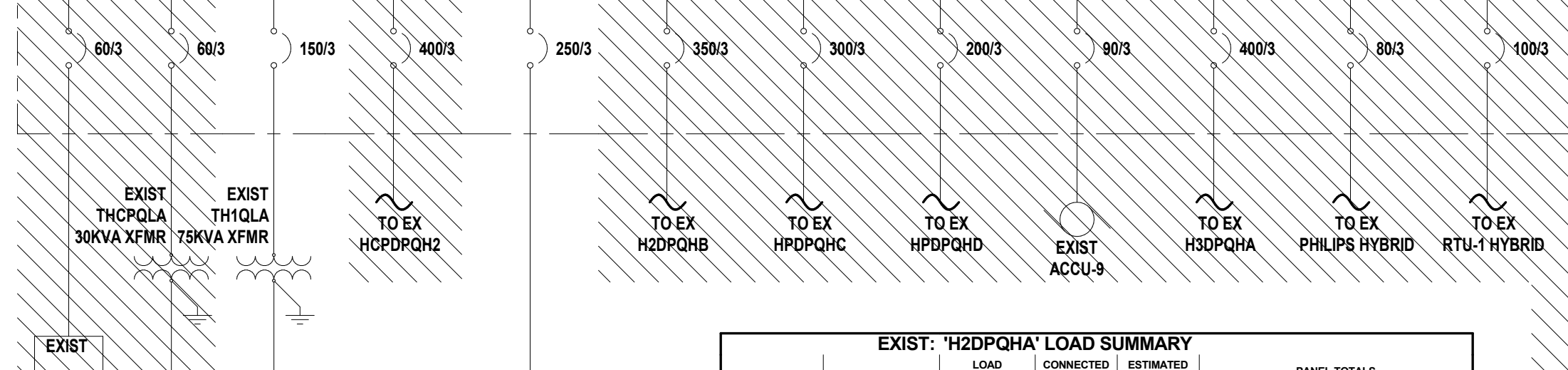
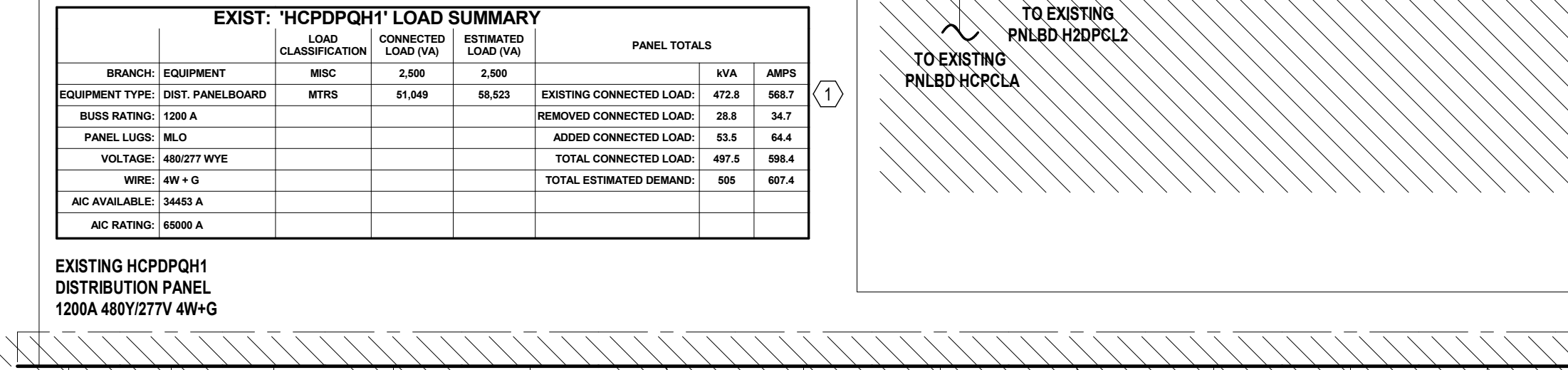
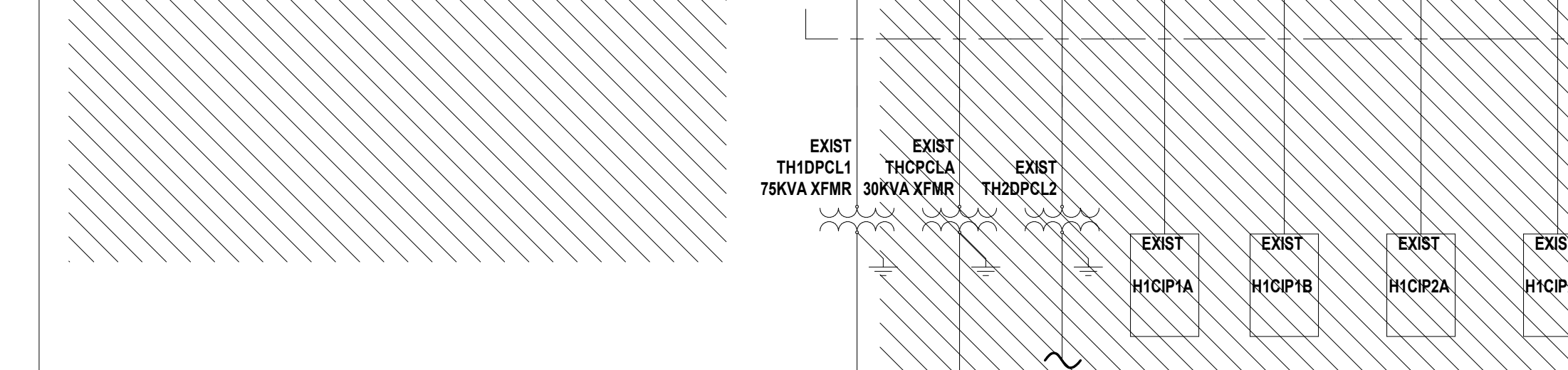
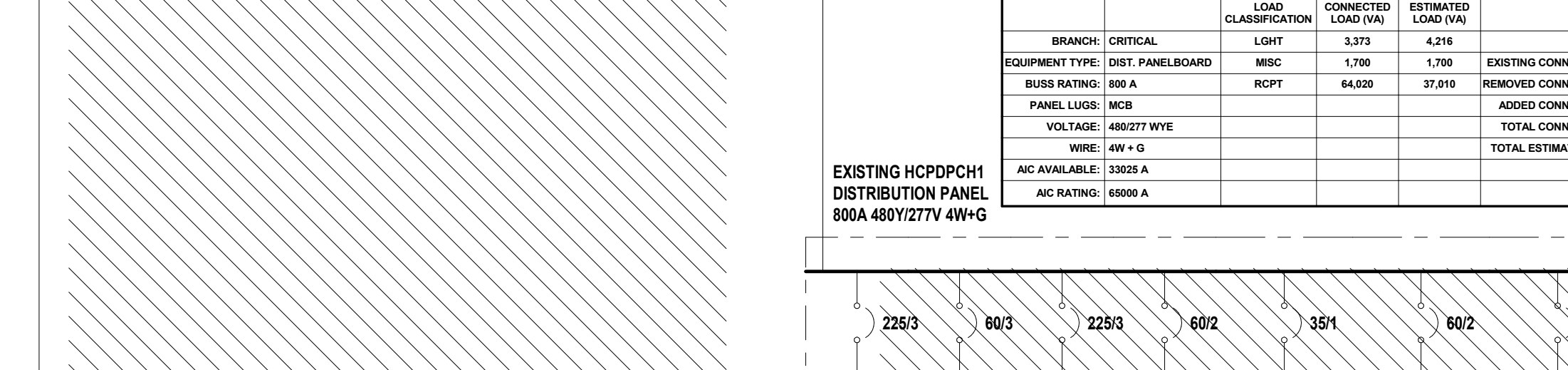
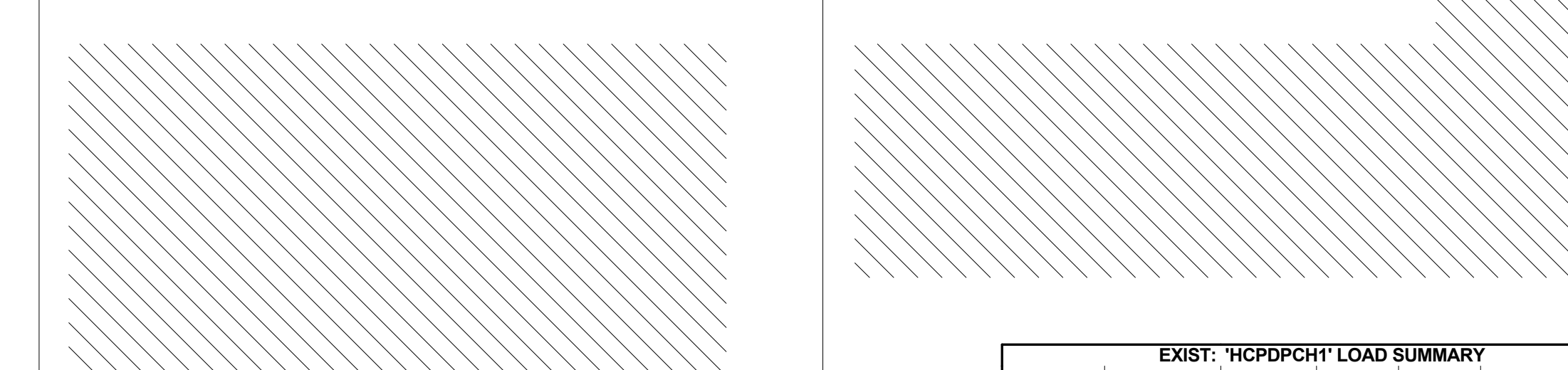
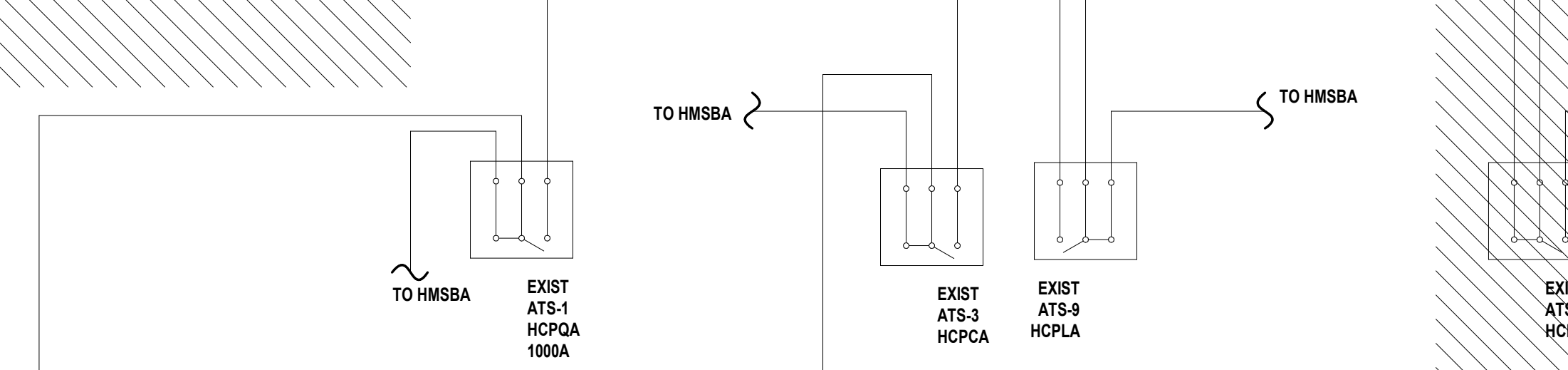
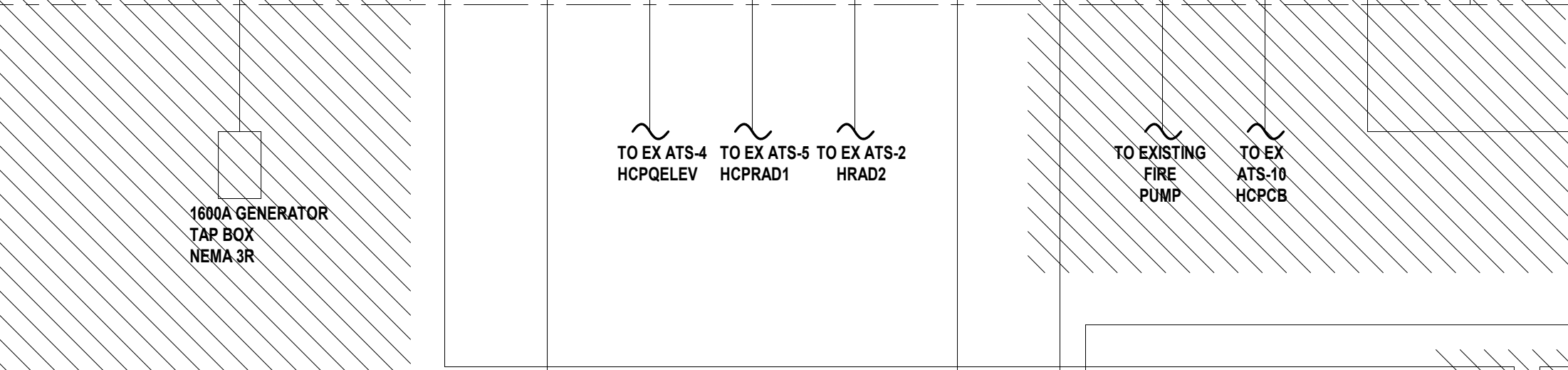
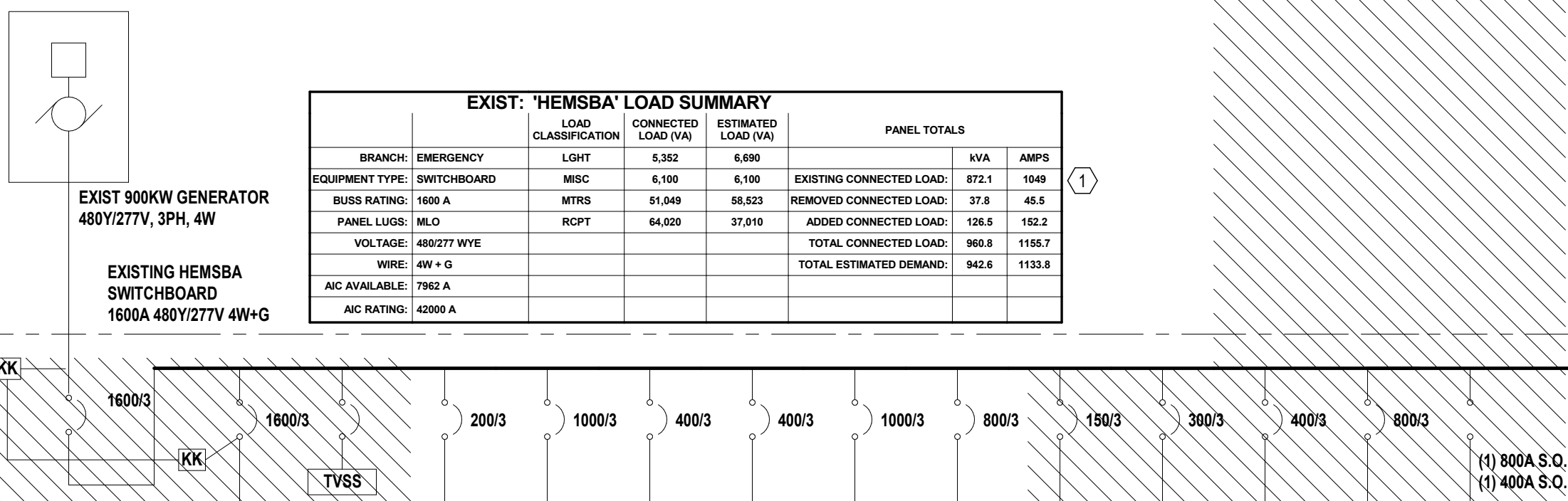
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SCALE: 1/8" = 1'-0"  
DRAWN: WSP  
REVIEWED: WSP  
JOB NUMBER: U50040241.3707

ONE LINE DIAGRAM -  
EMERGENCY - DEMO

E06-03

## LEGEND NOTES

- EXISTING LOAD IS BASED ON DESIGN LOAD FROM AN ONGOING PROJECT AT THE FACILITY.
- EXISTING LOAD BASED ON BUSY WINTER LOAD + 25 PERCENT DESIGN.
- EXISTING PANELBOARD HICLED TO BE DEMOLISHED AND EXISTING LOADS REMAINING TO BE RECONNECTED TO NEW PANELBOARD HICLED. UNLESS NOTED OTHERWISE, TRANSFER AND CORRECT LOADS ONE AT A TIME IN COORDINATION WITH THE FACILITY. EXISTING BRANCH CONDUCTORS AND CONDUIT TO FURNISH AND SPACE WITH NEW CONDUCTOR TO EXTEND TO NEW PANELBOARDS.



4/22/2025 11:22:47 AM Autodesk Docs://640624-HCA- Lee's Summit Medical Center (LSMC)-r23/MEP-LSMC ED Expansion-03.rvt Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.









Devenney Group Ltd., Architects

6900 East Camelback Road  
Suite 500  
Scottsdale, AZ 85251

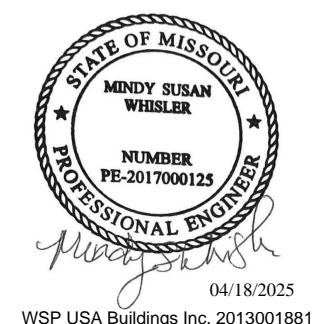
T: 602.943.8950

www.devenneygroup.com

Consultant:



300 WYANDOTTE, SUITE 200  
KANSAS CITY, MO 64105



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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

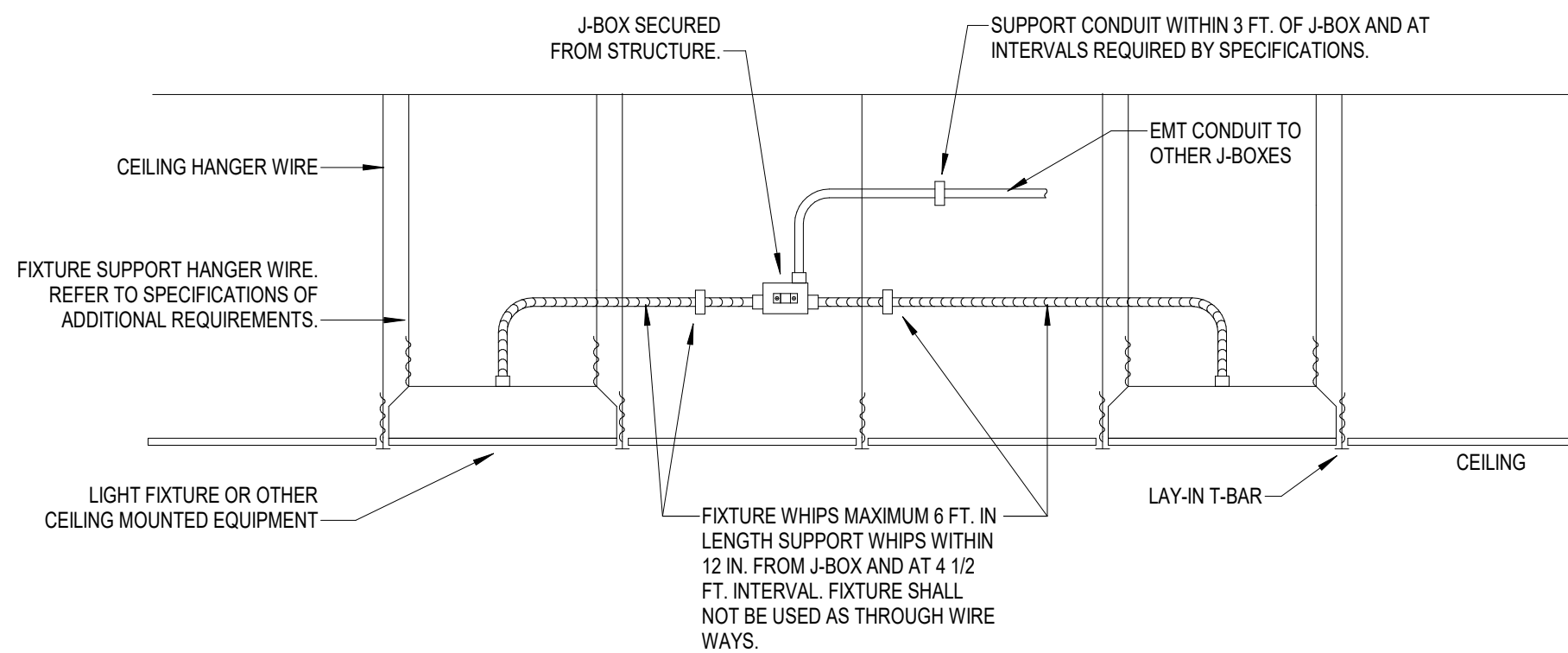
AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

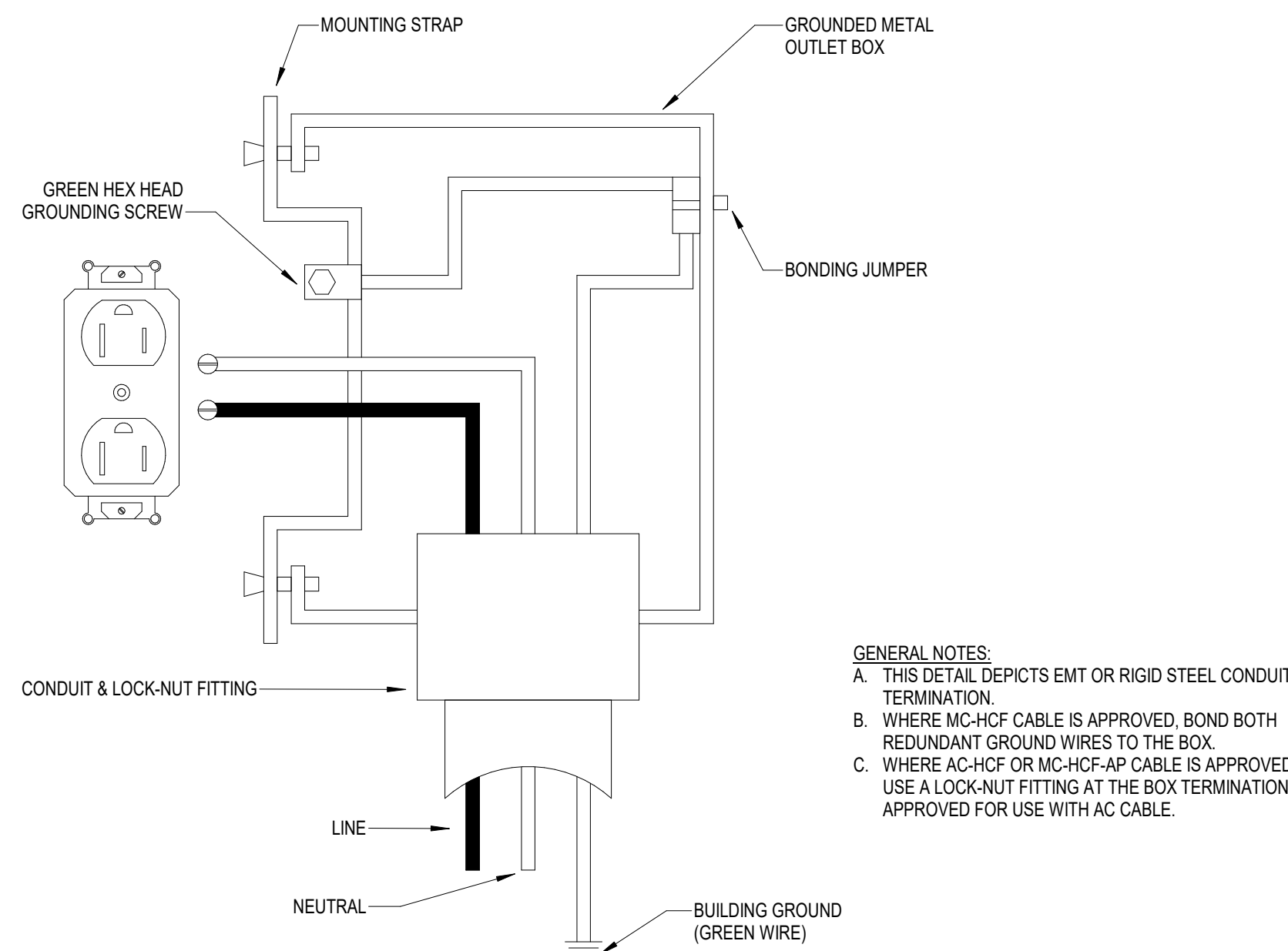
DATE: 04/18/25  
SCALE: N.T.S.  
DRAWN: WSP  
REVIEWED: WSP  
JOB NUMBER: U50040241.3707

## DETAILS - ELECTRICAL

E07-01

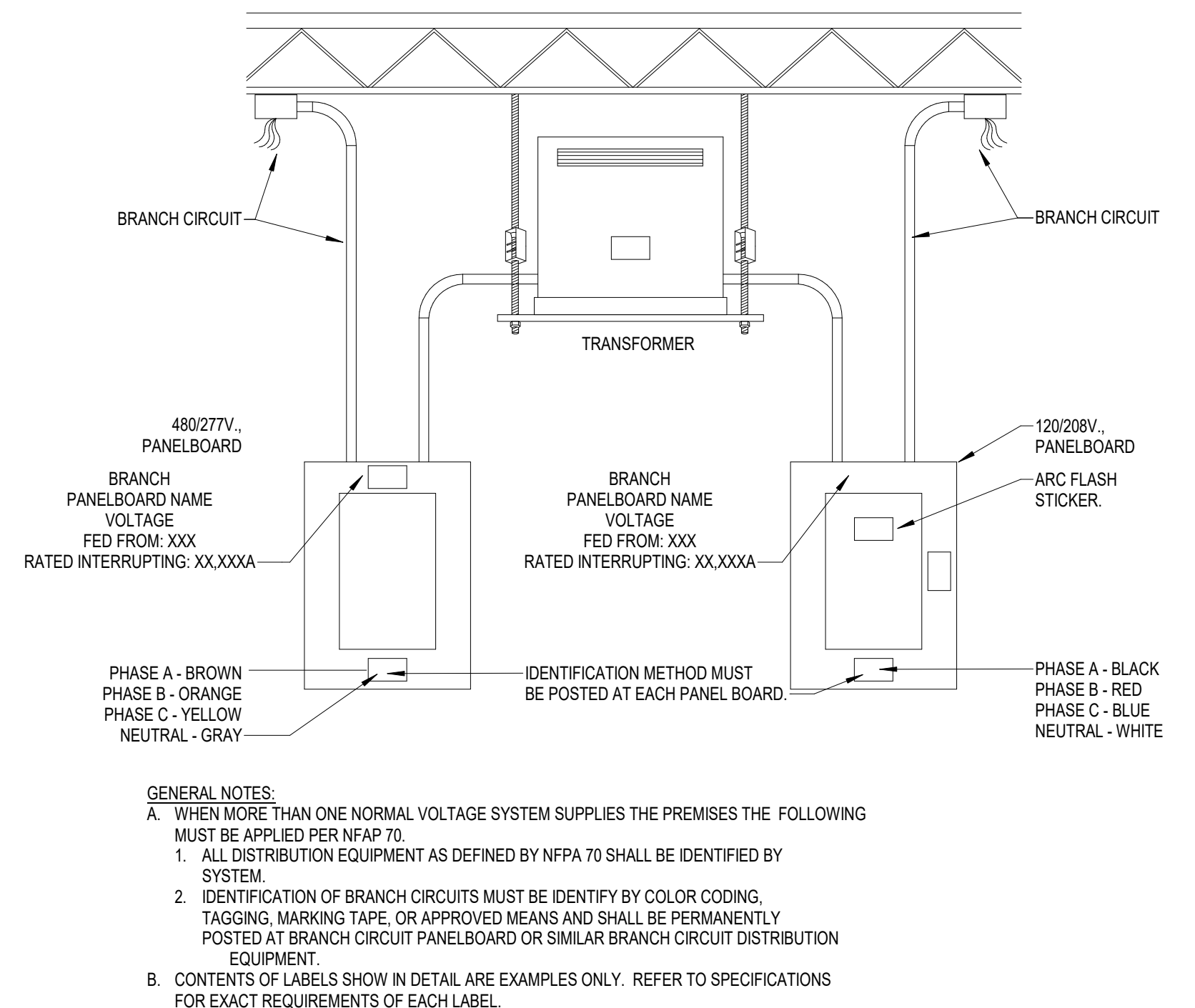


④ LAY-IN FIXTURE MOUNTING DETAIL  
N.T.S.



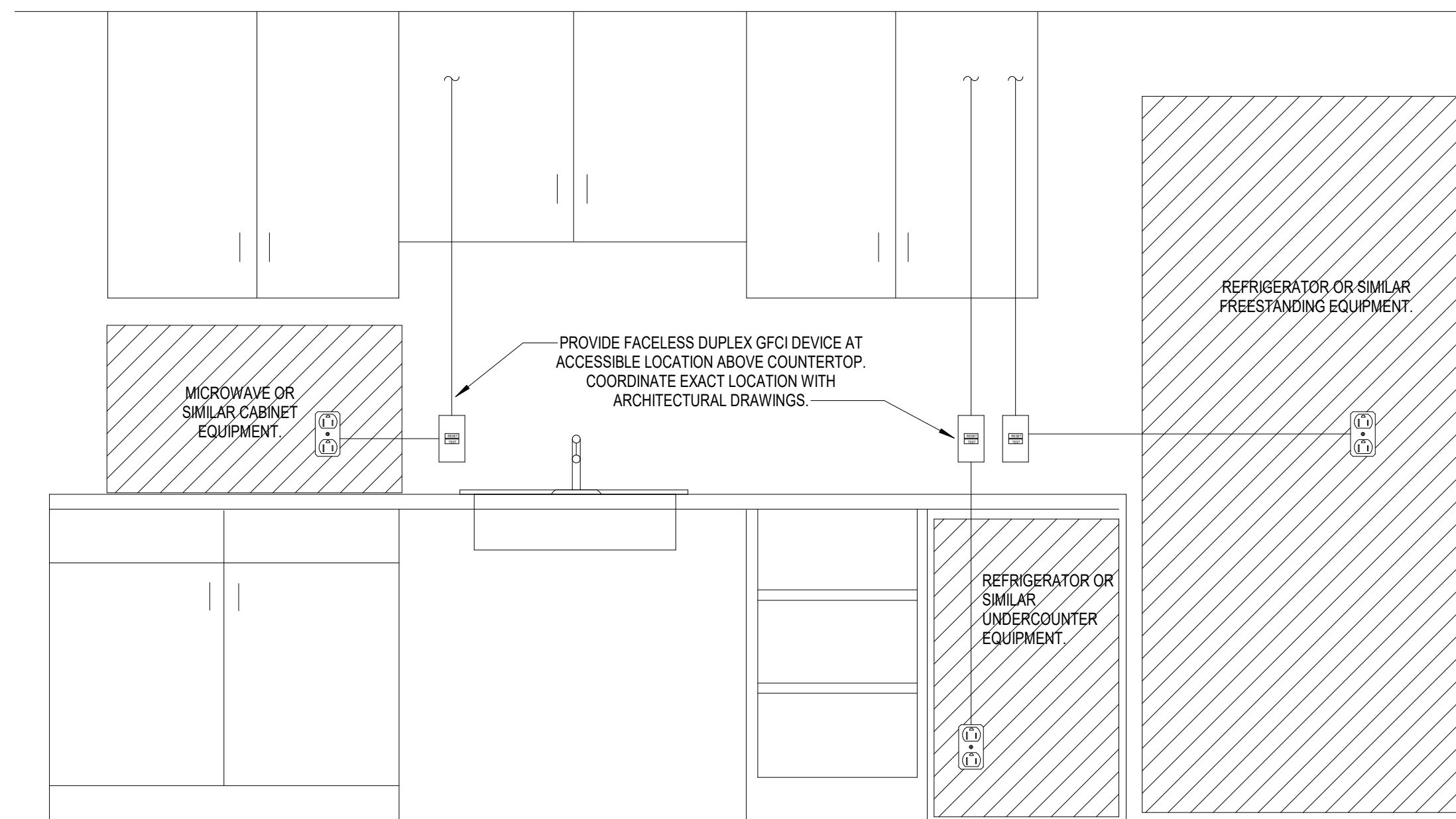
GENERAL NOTES:  
A. THIS DETAIL DEPICTS EMT OR RIGID STEEL CONDUIT TERMINATION.  
B. WHERE MC-HFC CABLE IS APPROVED, BOND BOTH REDUNDANT GROUND WIRES TO THE BOX.  
C. WHERE AC-HFC OR MC-HFC-AP CABLE IS APPROVED, USE A LOCK-NUT FITTING AT THE BOX TERMINATION APPROVED FOR USE WITH AC CABLE.

③ RECEPTACLE GROUNDING DETAIL  
N.T.S.

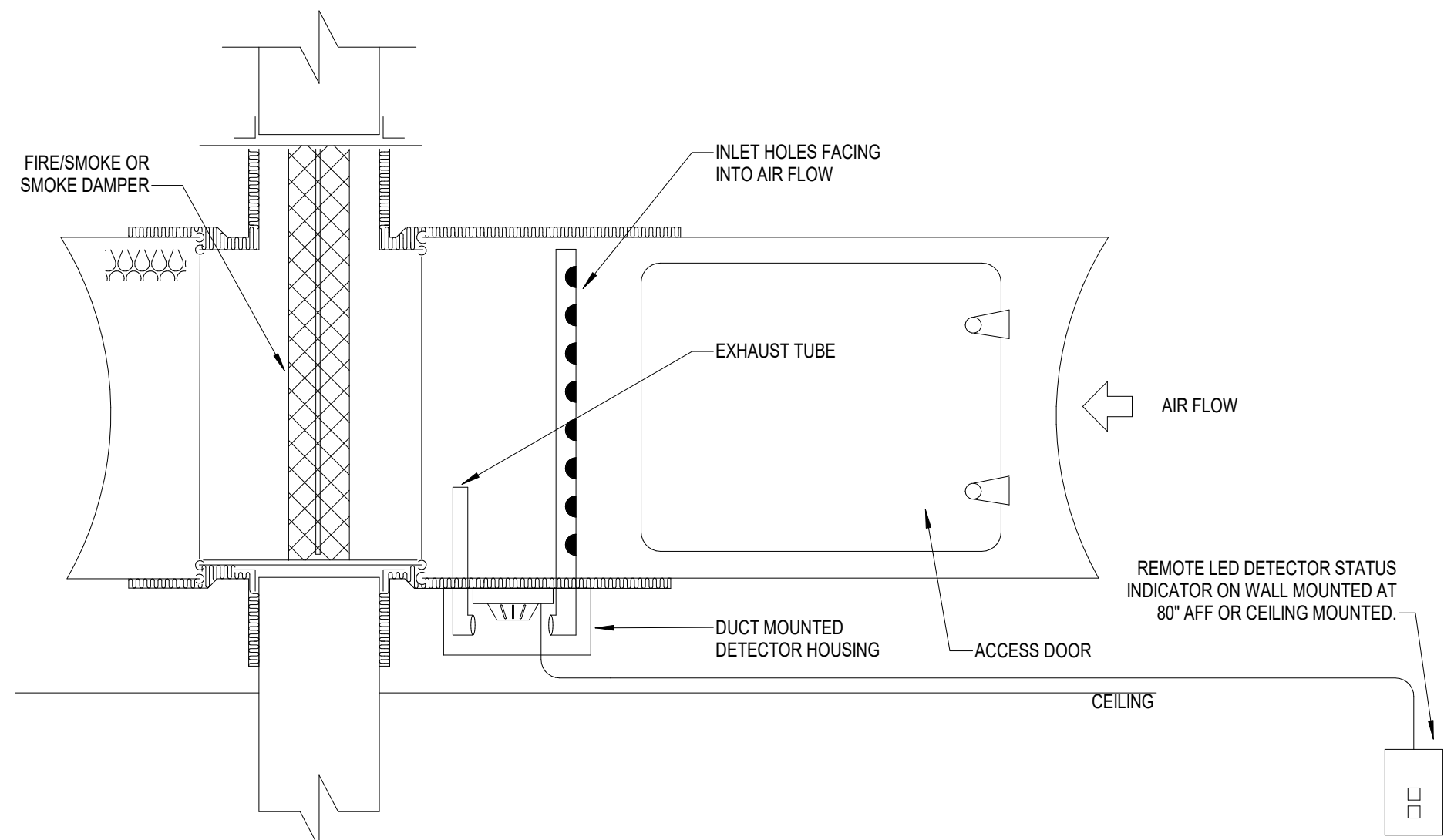


GENERAL NOTES:  
A. WHEN MORE THAN ONE NORMAL VOLTAGE SYSTEM SUPPLIES THE PREMISES THE FOLLOWING MUST BE APPLIED PER NFPA 70:  
1. ALL DISTRIBUTION EQUIPMENT AS DEFINED BY NFPA 70 SHALL BE IDENTIFIED BY SYSTEM.  
2. IDENTIFICATION OF BRANCH CIRCUITS MUST BE IDENTIFY BY COLOR CODING, TAGGING, MARKING TAPE, OR APPROVED MEANS AND SHALL BE PERMANENTLY POSTED AT BRANCH CIRCUIT PANELBOARD OR SIMILAR BRANCH CIRCUIT DISTRIBUTION EQUIPMENT.  
B. CONTENTS OF LABELS SHOW IN DETAIL ARE EXAMPLES ONLY. REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS OF EACH LABEL.

② PANEL IDENTIFICATION DETAIL  
N.T.S.

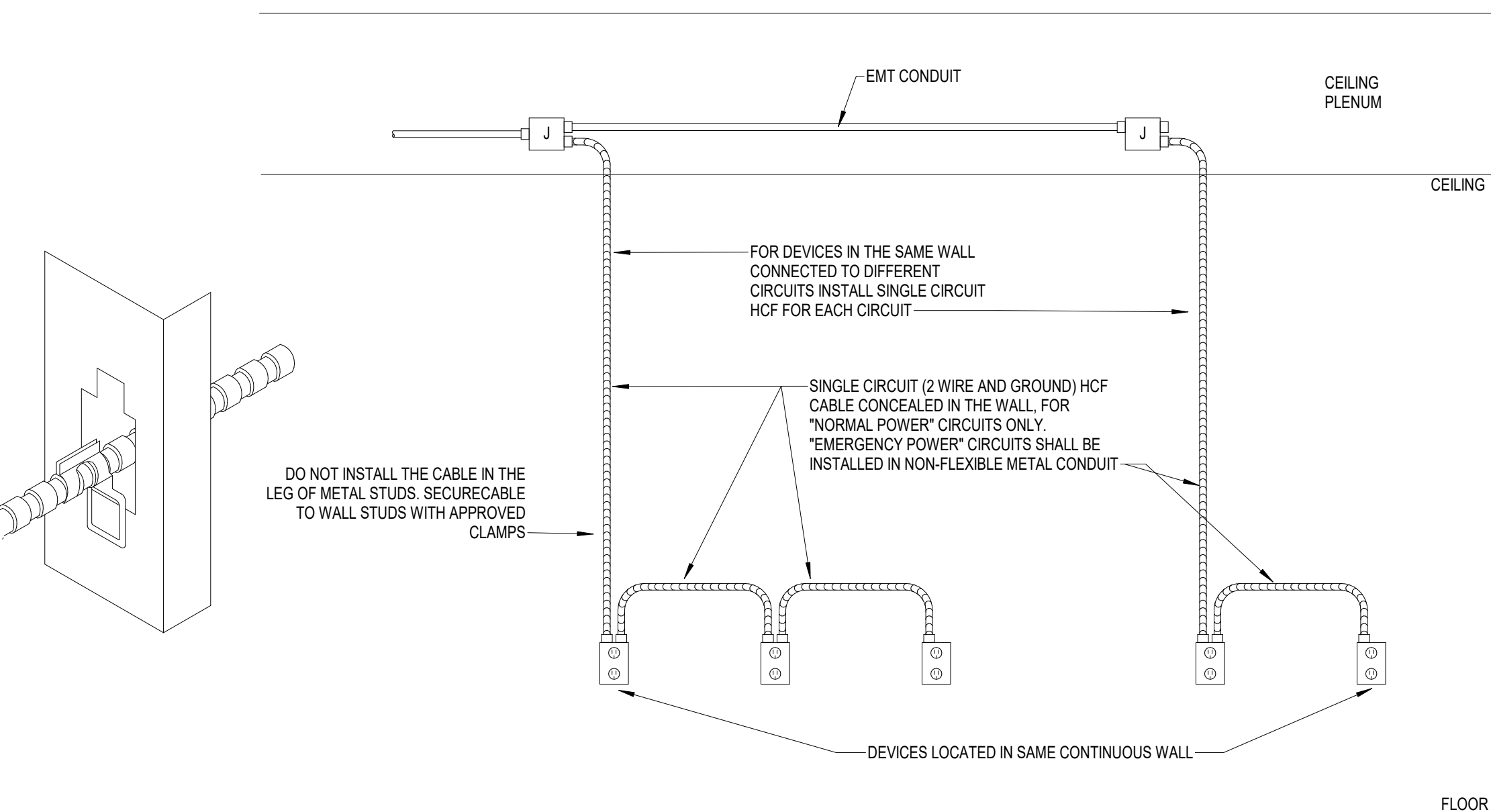


① ACCESSIBLE GFCI DETAIL  
N.T.S.



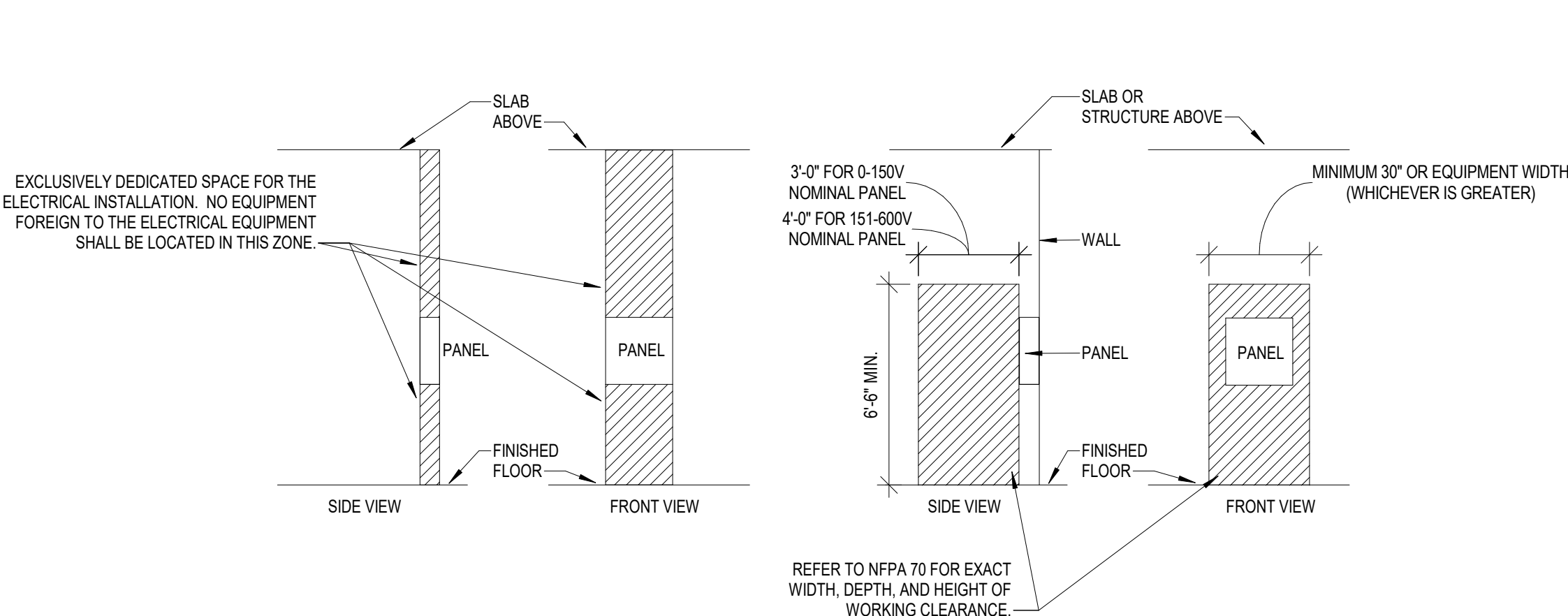
GENERAL NOTES:  
A. PROVIDE SMOKE DETECTORS AT ALL FIRE/SMOKE AND SMOKE DAMPER LOCATIONS. COORDINATE EXACT LOCATION OF ALL FIRE/SMOKE AND SMOKE DAMPERS WITH DIVISION 23 FLOOR PLANS. AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.  
B. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR MOUNTING, LOCATION, AND QUANTITY.

⑦ DUCT SMOKE DETECTOR DETAIL AT SMOKE AND FIRE/SMOKE DAMPERS  
N.T.S.



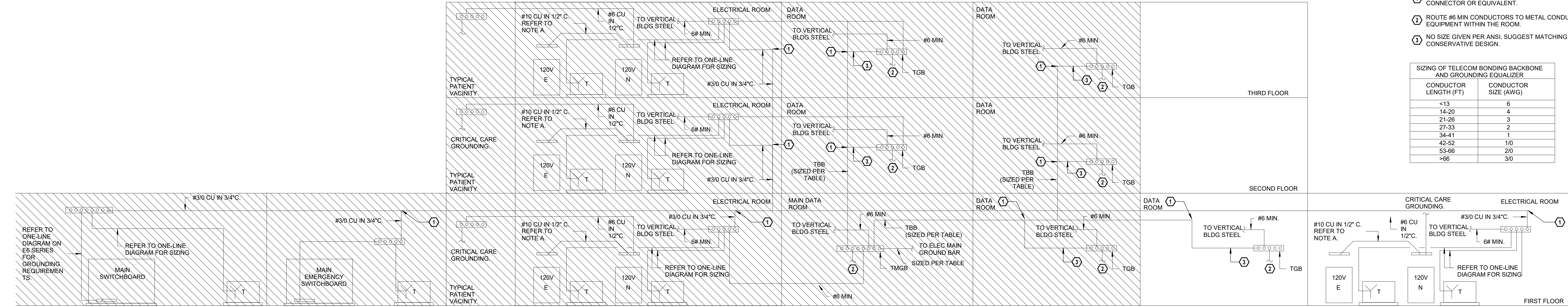
GENERAL NOTES:  
A. NOT APPLICABLE FOR EMERGENCY POWER CIRCUITS  
B. HFC CABLE MAY BE INSTALLED ONLY CONCEALED IN WALLS  
C. REFER TO SPECIFICATION 'LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES' FOR ADDITIONAL REQUIREMENTS.

⑥ HEALTHCARE FACILITIES CABLE (HCF) INSTALLATION DETAIL  
N.T.S.



⑤ TYPICAL PANELBOARD REQUIRED CLEARANCE DETAIL  
N.T.S.





1 TYPICAL ROOF MOUNTED RECEPTACLE  
N.T.S.

TGB - TELECOM GROUNDING BUSBAR  
TMGB - TELECOM MAIN GROUNDING BUSBAR  
TBB - TELECOMM BONDING BACKBONE  
GE - GROUNDING EQUALIZER

### LEGEND NOTE

- 1 EXOTHERMIC WELD, IRREVERSIBLE COMPRESSION-TYPE CONNECTOR OR EQUIVALENT.
- 2 ROUTE #6 MIN CONDUCTORS TO METAL CONDUIT & EQUIPMENT WITHIN THE ROOM.
- 3 NO SIZE GIVEN PER ANSI, SUGGEST MATCHING TBB FOR CONSERVATIVE DESIGN.

SIZING OF TELECOM BONDING BACKBONE AND GROUNDING EQUALIZER	
CONDUCTOR LENGTH (FT)	CONDUCTOR SIZE (AWG)
<13	6
14-20	4
21-26	3
27-33	2
34-41	1
42-52	1/0
53-66	2/0
>66	3/0

Devenney  
GROUP

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300 WYANDOTTE, SUITE 200  
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STATE OF MISSOURI  
PROFESSIONAL  
ENGINEER  
NUMBER  
1902179001.03  
04/18/2025  
WSP USA Buildings Inc. 2013001881

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## ED EXPANSION

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

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

FACILITY NUMBER:  
0972400011

AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 04/18/25  
SCALE: N.T.S.  
DRAWN: WSP  
REVIEWED: WSP  
JOB NUMBER: U50040241.3707

### DETAILS - ELECTRICAL

E07-02



ELECTRICAL LUMINAIRE FIXTURE SCHEDULE

TYPE	DESCRIPTION	LOCATION	HOUSING	PHYSICAL DESCRIPTION			FINISH	MOUNTING	ELECTRICAL SPECIFICATIONS										MANUFACTURER	MANUFACTURER INFORMATION	
				REFLECTOR	SHIELDING				COLOR TEMP.	LAMP	LUMENS	HOURS	VA	UNITS	BALLAST / DRIVER	VOLTAGE	CATALOG NUMBER	REMARKS			
A1	2' x 4' LED VOLUMETRIC TROFFER	EMS, PUBLIC AND CORRIDOR	ONE PIECE STEEL	ACRYLIC LINEAR PRISMATIC DIFFUSER	N/A		MATTE WHITE POWDERCOAT	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	4,000	60000	32	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	LITHONIA	#2VTL4 40L ADP E21 LP840			
B1	2' x 4' LED ACRYLIC LENSED PREMIUM TROFFER	SOLED, CLEAN SUPPLY	22 GA. STEEL HOUSING	#12 TRANSMISSIVE 0.125" LENS	HINGED AND LATCHED FROM EITHER SIDE, ENCLOSED SPRING LOADED CAM LATCH, WHITE REGRESSED ALUMINUM DOOR WITH MITERED CORNERS		PAINTED AFTER FABRICATION	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	4,800	72000	36	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	LITHONIA	#2GTL 4 48L RW E21 LP840 PAF			
B2	2' x 4' LED ACRYLIC LENSED PREMIUM TROFFER	EXAM, TRIAGE, NOUR, NURSE, MEDS	22 GA. STEEL HOUSING	#12 TRANSMISSIVE 0.125" LENS	HINGED AND LATCHED FROM EITHER SIDE, ENCLOSED SPRING LOADED CAM LATCH, WHITE REGRESSED ALUMINUM DOOR WITH MITERED CORNERS		PAINTED AFTER FABRICATION	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	6,600	72000	48	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	LITHONIA	#2GTL 4 60L RW E21 LP840 PAF			
B4	2' x 4' LED ACRYLIC LENSED PREMIUM TROFFER, WET LOCATION LISTED	DECONTAM	20 GA. STEEL HOUSING	DIFFUSED ACRYLIC	0.060 PAINTED ALUMINUM DOOR FRAM		PAINTED AFTER FABRICATION	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	4,800	72000	41	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	LITHONIA	#WRTL X L48 5000LM QAW AFL MVOLT E214K 80CRI			
D1	2' x 2' LED VOLUMETRIC TROFFER	RESTROOM	ONE PIECE STEEL	ACRYLIC LINEAR PRISMATIC DIFFUSER	WHITE REGRESSED ALUMINUM DOOR		MATTE WHITE POWDERCOAT	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	3,300	60000	26	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	LITHONIA	#2VTL2 33L ADP E21 LP840			
D2	2' x 2' LED VOLUMETRIC TROFFER	STAFF WORKING	ONE PIECE STEEL	ACRYLIC LINEAR PRISMATIC DIFFUSER	WHITE REGRESSED ALUMINUM DOOR		MATTE WHITE POWDERCOAT	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	4,000	60000	33	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	LITHONIA	#2VTL2 40L ADP E21 LP840			
J2	4'-0" LED LOW PROFILE LENSED STRIPLIGHT WITH DROP LENS FOR 10% UPLIGHT	ELECTRICAL ROOM	20 GA. HEAVY DUTY STEEL HOUSING	SYMMETRIC REFLECTOR	COLD ROLLED STEEL		WHITE FINISH, PAINTED AFTER FABRICATION	CHAIN HUNG AT 9'-0" A.F.F. LOCATED AROUND EQUIPMENT	4,000	LED	7,600	50000	59	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	LITHONIA	#ZL1D L48 5MR 7000LM FST MVOLT 40K 80CRI W1 PAF			
L3	LED VANITY SCONCE, 24" LENGTH, DIRECT-INDIRECT LIGHT	TOILET ROOMS	N/A	N/A	N/A		BRUSHED ALUMINUM FINISH	WALL MOUNTED, REFER TO ARCHITECTURAL FOR MOUNTING HEIGHT	4,000	LED	1,932	60000	20	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	WINONA	#WFW4808 24L0NG LEDX2 40K MVOLT OAE BA MEZ128783A00			
M2	6" LED DOWNLIGHT WITH 45 DEGREE CUT OFF	ALCOVE, RESEP, NURSE/CORR	16 GA. GALVANIZED STEEL CONSTRUCTION	HIGH-IMPACT, FROSTED POLYCARBONATE LENS	LIGHT ENGINE AND DRIVER ACCESSIBLE THROUGH APERTURE		MATTE WHITE SELF-FLANGED, SEMI-SPECULAR FINISH	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	1,500	60000	15	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	GOTHAM	#EV06 4015 AR MWD LSS MVOLT G210			
M4	6" LED DOWNLIGHT WITH 45 DEGREE CUT OFF	PATIENT/EXAM ROOM	16 GA. GALVANIZED STEEL CONSTRUCTION	HIGH-IMPACT, FROSTED POLYCARBONATE LENS	LIGHT ENGINE AND DRIVER ACCESSIBLE THROUGH APERTURE		MATTE WHITE SELF-FLANGED, SEMI-SPECULAR FINISH	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	2,000	60000	20	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	GOTHAM	#EV06 4020 AR MWD LSS MVOLT G210			
R2	6" LED SHOWER LIGHT, IP 65 RATED	RESTROOM	20 GA. STEEL HOUSING	ALUMINUM DIE CAST REFLECTOR	REGRESSED PRISMATIC LENS		SPECULAR CLEAR ALZAK REFLECTOR FINISH	RECESSED GYPSUM BOARD OR LAY IN CEILING, VERIFY CEILING TYPE BEFORE ORDERING	4,000	LED	1,000	60000	12	EACH	LED DRIVER	120	GOTHAM	#EV06 4010 DFR MVOLT E21			
W1	2' x 4' LED ACRYLIC LENSED PREMIUM TROFFER	TRAUMA	20 GA. STEEL HOUSING	#12 TRANSMISSIVE 0.125" LENS	HINGED AND LATCHED FROM EITHER SIDE, ENCLOSED SPRING LOADED CAM LATCH, WHITE REGRESSED ALUMINUM DOOR WITH MITERED CORNERS		PAINTED AFTER FABRICATION	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	11,100	72000	83	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	LITHONIA	#2GTL 4 100L A12125 E21 LP840 ABC			
W1E	2' x 4' LED ACRYLIC LENSED PREMIUM TROFFER WITH BATTERY BACKUP	TRAUMA	20 GA. STEEL HOUSING	#12 TRANSMISSIVE 0.125" LENS	HINGED AND LATCHED FROM EITHER SIDE, ENCLOSED SPRING LOADED CAM LATCH, WHITE REGRESSED ALUMINUM DOOR WITH MITERED CORNERS		PAINTED AFTER FABRICATION	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	11,100	72000	83	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	LITHONIA	#2GTL 4 100L A12125 E21 LP840 ABC E10W			
X1	LED DECORATIVE RECESSED EDGE-LIT EXIT LIGHT, SINGLE FACE	EGRESS	20 GA. GALVANIZED STEEL, EXTRUDED ALUMINUM HOUSING	SATIN ALUMINUM TRIM PLATE, MOLDED TEXTURED LETTERS	N/A	6 INCH HIGH RED LETTERS ON MIRROR BACKGROUND, DIRECTIONAL CHEVRON INDICATORS AS REQUIRED PER PLANS	BACK / CEILING / END MOUNTING AS REQUIRED PER PLANS	0	LED	10	87600	3	EACH	N/A	120	LITHONIA	#LRP 1 RMR 120277				
X2	LED DECORATIVE RECESSED EDGE-LIT EXIT LIGHT, DOUBLE FACE	EGRESS	20 GA. GALVANIZED STEEL, EXTRUDED ALUMINUM HOUSING	SATIN ALUMINUM TRIM PLATE, MOLDED TEXTURED LETTERS	N/A	6 INCH HIGH RED LETTERS ON MIRROR BACKGROUND, DIRECTIONAL CHEVRON INDICATORS AS REQUIRED PER PLANS	BACK / CEILING / END MOUNTING AS REQUIRED PER PLANS	0	LED	15	87600	3	EACH	N/A	120	LITHONIA	#LRP 2 RMR 120277				

ELECTRICAL LUMINAIRE FIXTURE SCHEDULE

TYPE	PHYSICAL DESCRIPTION													ELECTRICAL SPECIFICATIONS				MANUFACTURER INFORMATION		
	DESCRIPTION	LOCATION	HOUSING	REFLECTOR	SHIELDING	FINISH	MOUNTING	COLOR TEMP.	LAMP	LUMENS	HOURS	VA	UNITS	BALLAST / DRIVER	VOLTAGE	MANUFACTURER	CATALOG NUMBER	REMARKS		
M3	6" LED DOWNLIGHT WITH 45 DEGREE CUT OFF	CANOPY	16 GA. GALVANIZED STEEL CONSTRUCTION	HIGH-IMPACT, FROSTED POLYCARBONATE LENS	LIGHT ENGINE AND DRIVER ACCESSIBLE THROUGH APERTURE	MATTE WHITE SELF-FLANGED, SEMI-SPECULAR FINISH	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	4,000	60000	15	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	GOTHAM	#EV06 4040 AR LSS MWD MVOLT G210			
Z1	LED TRAPEZOIDAL WALL PACK WITH PHOTOCELL, WIDE DISTRIBUTION	EXTERIOR	DIE CAST ALUMINUM, DIE-CAST DOOR FRAME, WITH SOLID SILICONE GASKET, IP65	N/A	FULL CUTOFF	THERMOSET POWDER COAT FINISH, DARK BRONZE, CONFORM WITH ARCHITECT	WALL MOUNTED, REFER TO ARCHITECTURAL FOR MOUNTING HEIGHT	4,000	N/A	1,500	100000	11	EACH	LED DRIVER	120	LITHONIA	#WST LED P1 40K VW MVOLT PE DDBXD			

LIGHTING CONTROL SEQUENCE OF OPERATIONS

TAG	SPACE TYPES	CONTROL		MANUAL CONTROL / OVERRIDE		OCCUPANCY SENSOR		PHOTOCELL
		CONTROL DESCRIPTION	CONTROL SYSTEM TYPE	DURATION	DEVICE LOCATION	SET POINT		
1	PUBLIC AREAS, RECEPTION	MANUAL ON TO 100%, MANUAL OFF, DIMMING VIA MANUAL CONTROLS	STAND-ALONE	LINE VOLTAGE SWITCH; N/A	N/A	N/A	N/A	
2	RESTROOMS/TTOILET	AUTO ON TO 100%, AUTO OFF, MANUAL ON/OFF/DIM	STAND-ALONE	LINE VOLTAGE SWITCH; 20 MINUTES	DUAL-TECH WALL	AUTO ON/DIM; 20 MIN SET POINT	N/A	
3	ENCLOSED ROOMS (SMALL OFFICE, NOURISH, SUPPORT, ETC)	AUTO ON TO 50%, MANUAL ON TO 100%/OFF/DIM, AUTO OFF	STAND-ALONE	LINE VOLTAGE SWITCH; 20 MINUTES	DUAL-TECH WALL	AUTO ON 50%, AUTO OFF; 20 MIN SET POINT	N/A	CEILING MOUNTED IN DAYLIGHT ZONES OVER 150W, 1 MIN FAD RATE
4	EXAM RMS, NURSE STATION, CORRIDORS	MANUAL ON TO 100%, MANUAL OFF, DIMMING VIA MANUAL CONTROLS	STAND-ALONE	LINE VOLTAGE SWITCH; N/A	N/A	N/A	N/A	
5	ENCLOSED ROOMS (LARGE OFFICE, BREAK, SUPPORT, ETC)	AUTO ON TO 50%, MANUAL ON TO 100%/OFF/DIM, AUTO OFF	STAND-ALONE	LOW VOLTAGE SWITCH; 20 MINUTES	DUAL-TECH CEILING	AUTO ON 50%, AUTO OFF; 20 MIN SET POINT	N/A	CEILING MOUNTED IN DAYLIGHT ZONES OVER 150W, 1 MIN FAD RATE
6	EXTERIOR CANOPIES	PHOTOCELL 100% ON AT DUSK, TIME-CLOCK DIM AT DAWN	LIGHTING CONTROL PANEL	N/A	N/A	N/A	N/A	CANOPY MOUNTED
7	ELECMECH/COMMM RMS	MANUAL 'ON' TO 100%, MANUAL 'OFF'	STAND-ALONE	LINE VOLTAGE SWITCH; N/A	N/A	N/A	N/A	

DEMAND FACTOR TABLE

LOAD TYPES			FACTORS										NEC REFERENCE
LIGHTS	1.00												220.42
	0-10kVA	>10kVA											
RECEPTACLES	1.00	0.50											220.44
	MAX	ALL OTHERS											
MOTORS	1.25	1.00											220.50 & 430.24
	0-50kVA	>50kVA											
HOSPITAL	0.40	0.20											220.42 & 220.44
	1 PIECE OF EQUIPMENT		OVER 1 PIECE OF EQUIPMENT										
X-RAY	1	1.00	0.50	2	3 or more								
	1	1.00	0.50	0.25	0.10							517.73(2)	
ELEVATOR	1	1.00	2	4	5	6	7	8	9	10 or more			
	1.00	0.95	0.9	0.85	0.82	0.79	0.77	0.75	0.73	0.72	620.14		
KITCHEN	1	2	3	4	5	6 or more							
	1.00	1.00	0.90	0.80	0.70	0.65						220.56	
HEAT	1.00											220.51	
MISCELLANEOUS	1.00											210.19	

MOTOR SCHEDULE

MOTOR TAG	HP	FLA	CB	FEEDER DESCRIPTION	
5.M	5	7.6	15	3#12, 1#12 G, 3/4" C	
7.5.M	7-1/2	11	20	3#12, 1#12 G, 3/4" C	
10.M	10	14	25	3#12, 1#10 G, 3/4" C	
15.M	15	21	40	3#10, 1#10 G, 3/4" C	
20.M	20	27	50	3#8, 1#10 G, 3/4" C	
25.M	25	34	60	3#6, 1#10 G, 3/4" C	
30.M	30	40	70	3#6, 1#8 G, 3/4" C	
40.M	40	52	100	3#4, 1#8 G, 1" C	
50.M	50	65	125	3#3, 1#6 G, 1-1/4" C	
60.M	60	77	150	3#1, 1#6 G, 1 1/4" C	
75.M	75	96	175	3#1, 1#6 G, 1 1/4" C	
100.M	100	124	225	3#20, 1#4 G, 2" C	
125.M	125	156	300	3#30, 1#4 G, 2" C	
150.M	150	180	350	3#40, 1 #3 G, 2" C	
200.M	200	240	450	3#350KCM, 1#2 G, 2-1/2" C	

COPPER FEEDER SCHEDULE  
600V MAX.

FEEDER TAG & AMPERE RATING	FEEDER DESCRIPTION
15.3, 20.3 15.4, 20.4	3#12, 1#12 G, 3/4" C 3#12, 1#12 N, 1#12 G, 3/4" C
25.3, 30.3 25.4, 30.4	3#10, 1#10 G, 3/4" C 3#10, 1#10 N, 1#10 G, 3/4" C
35.3, 40.3 35.4, 40.4	3#8, 1#10 G, 3/4" C 3#8, 1#8 N, 1#10 G, 3/4" C
45.3, 50.3 45.4, 50.4	3#6, 1#10 G, 3/4" C 3#6, 1#6 N, 1#10 G, 1" C
60.3 60.4	3#4, 1#10 G, 1" C 3#4, 1#4 N, 1#10 G, 1 1/4" C
70.3 70.4	3#4, 1#6 G, 1" C 3#4, 1#4 N, 1#6 G, 1-1/4" C
80.3 80.4	3#3, 1#6 G, 1-1/4" C 3#3, 1#3 N, 1#6 G, 1-1/4" C
90.3 90.4	3#2, 1#6 G, 1-1/4" C 3#2, 1#2 N, 1#6 G, 1-1/4" C
100.3 100.4	3#1, 1#6 G, 1-1/4" C 3#1, 1#1 N, 1#6 G, 1-1/2" C
110.3 110.4	3#1, 1#6 G, 1-1/4" C 3#1, 1#1 N, 1#6 G, 1-1/2" C
125.3, 150.3 125.4, 150.4	3#10, 1#6 G, 1-1/2" C 3#10, 1#10 N, 1#6 G, 2" C
175.3 175.4	3#20, 1#6 G, 2" C 3#20, 1#20 N, 1#6 G, 2" C
200.3 200.4	3#30, 1#6 G, 2" C 3#30, 1#30 N, 1#6 G, 2" C
225.3 225.4	3#40, 1#4 G, 2" C 3#40, 1#40 N, 1#4 G, 2-1/2" C
250.3 250.4	3#250KCM, 1#4 G, 2-1/2" C 3#250KCM, 1-250KCM N, 1#4 G, 2-1/2" C
300.3 300.4	3#350KCM, 1#4 G, 2-1/2" C 3#350KCM, 1-350KCM N, 1#4 G, 3" C
350.3 350.4	3#500KCM, 1#3 G, 3" C 3#500KCM, 1-500KCM N, 1#3 G, 3-1/2" C
400.3 400.4	2 SETS EACH OF [3#30, 1#3 G, 2" C] 2 SETS EACH OF [3#30, 1#30 N, 1#3 G, 2-1/2" C]
450.3 450.4	2 SETS EACH OF [3#40, 1#2 G, 2" C] 2 SETS EACH OF [3#40, 1#40 N, 1#2 G, 2-1/2" C]
500.3 500.4	2 SETS EACH OF [3#250KCM, 1#2 G, 2-1/2" C] 2 SETS EACH OF [3#250KCM, 1#250KCM N, 1#2 G, 2-1/2" C]
600.3 600.4	2 SETS EACH OF [3#350KCM, 1#1 G, 2-1/2" C] 2 SETS EACH OF [3#350KCM, 1#350KCM N, 1#1 G, 3" C]
700.3 700.4	2 SETS EACH OF [3#500KCM, 1#10 G, 3" C] 2 SETS EACH OF [3#500KCM, 1#500KCM N, 1#10 G, 3-1/2" C]
800.3 800.4	3 SETS EACH OF [3#300KCM, 1#10 G, 3" C] 3 SETS EACH OF [3#300KCM, 1#300KCM N, 1#10 G, 3" C]
900.3 900.4	3 SETS EACH OF [3#350KCM, 1#20 G, 3" C] 3 SETS EACH OF [3#350KCM, 1#350KCM N, 1#20 G, 3" C]
1000.3 1000.4	3 SETS EACH OF [3#400KCM, 1#20 G, 3" C] 3 SETS EACH OF [3#400KCM, 1#400KCM N, 1#20 G, 3" C]
1200.3 1200.4	4 SETS EACH OF [3#350KCM, 1#30 G, 3" C] 4 SETS EACH OF [3#350KCM, 1#350KCM N, 1#30 G, 3" C]
1400.3 1400.4	4 SETS EACH OF [3#500KCM, 1#40 G, 3" C] 4 SETS EACH OF [3#500KCM, 1#500KCM N, 1#40 G, 3-1/2" C]
1600.3 1600.4	5 SETS EACH OF [3#400KCM, 1#40 G, 3" C] 5 SETS EACH OF [3#400KCM, 1#400KCM N, 1#40 G, 3" C]
2000.3 2000.4	6 SETS EACH OF [3#400KCM, 1#250KCM G, 3" C] 6 SETS EACH OF [3#400KCM, 1#400KCM N, 1#250KCM G, 3" C]
2500.3 2500.4	7 SETS EACH OF [3#500KCM, 1#350KCM G, 3-1/2" C] 7 SETS EACH OF [3#500KCM, 1#500KCM N, 1#350KCM G, 3-1/2" C]
3000.3 3000.4	8 SETS EACH OF [3#500KCM, 1#400KCM G, 3" C] 8 SETS EACH OF [3#500KCM, 1#500KCM N, 1#400KCM G, 3-1/2" C]
4000.3 4000.4	11 SETS EACH OF [3#500KCM, 1#500KCM G, 3-1/2" C] 11 SETS EACH OF [3#500KCM, 1#500KCM N, 1#500KCM G, 3-1/2" C]



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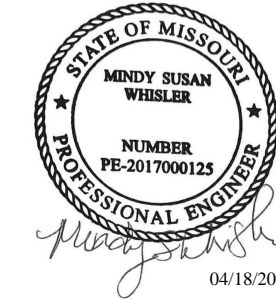
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NEW: H1CIP8A

LOCATION: TRAUMA 01-13  
PRIMARY VOLTAGE: 120 V  
AIC: 10,000 A  
NUMBER OF PHASES: 2

FED FROM: HCPDPCH1  
SECONDARY OCPD 'A': 80 A  
TRANSFORMER KVA 'A': 7.5  
SECONDARY VOLTAGE 'A': 120 V  
SECONDARY WIRE 'A': 2W + G

ENCLOSURE: NEMA 1  
MOUNTING: RECESSED  
GROUND BUS: YES  
BUS TYPE: COPPER

NEW: H1NIP8B

LOCATION: TRAUMA 01-13  
PRIMARY VOLTAGE: 120 V  
AIC: 10,000 A  
NUMBER OF PHASES: 2

FED FROM: HCPDPN1  
SECONDARY OCPD 'B': 80 A  
TRANSFORMER KVA 'B': 7.5  
SECONDARY VOLTAGE 'B': 120 V  
SECONDARY WIRE 'B': 2W+G

ENCLOSURE: NEMA 1  
MOUNTING: RECESSED  
GROUND BUS: YES  
BUS TYPE: COPPER

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS / POLES	CIRCUIT BREAKER AMPS / POLES	TOTAL LOAD (VA)	DESCRIPTION	CKT NO.		
1	LGHT - TRAUMA 01-13	300	20	2	2 20 A	RCPT - TRAUMA 01-13	1		
2	RCPT - TRAUMA 01-13	540	20	2	2 20 A	RCPT - TRAUMA 01-13	2		
3	RCPT - TRAUMA 01-13	540	20	2	2 20 A	RCPT - TRAUMA 01-13	3		
4	RCPT - TRAUMA 01-13	360	20	2	2 20 A	RCPT - TRAUMA 01-13	4		
5	RCPT - TRAUMA 01-13	360	20	2	-- 20 A	SPARE	5		
6	JB - CLOCK - TRAUMA 01-13	200	20	2	-- 20 A	SPARE	6		
7	RCPT - TRAUMA 01-13	360	20	2	-- 20 A	SPARE	7		
8	RCPT - C-ARM - TRAUMA 01-13	180	20	2	-- 20 A	SPARE	8		
9	RCPT - WARMER - TRAUMA 01-13	840	20	2	-- 20 A	SPARE	9		
10	RCPT - MEDS - TRAUMA 01-13	500	20	2	-- 20 A	SPARE	10		
11	RCPT - CC - TRAUMA 01-13	180	20	2	-- 20 A	SPARE	11		
12	RCPT - TRAUMA 01-13	360	20	2	-- 20 A	SPARE	12		
13	RCPT - MAYO - TRAUMA 01-13	180	20	2	-- 20 A	SPARE	13		
14	SPARE	--	20	--	-- 20 A	SPARE	14		
15	SPARE	--	20	--	-- 20 A	SPARE	15		
16	SPARE	--	20	--	-- 20 A	SPARE	16		
LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS	
RCPT	4,400	4,400			RCPT	1,980	1,980		
MISC	500	500							
			TOTAL CONN. LOAD: 4.9 kVA					TOTAL CONN. LOAD: 2.0 kVA	
			TOTAL EST. DEMAND: 4.9 kVA					TOTAL EST. DEMAND: 2.0 kVA	
			TOTAL CONN.: 40.8 A					TOTAL CONN.: 16.5 A	
			TOTAL EST. DEMAND: 40.8 A					TOTAL EST. DEMAND: 16.5 A	

NEW: H1NLD										NORMAL									
LOCATION: ELEC 01-11 MAIN BUS: 225 A MCB: 150A VOLTAGE: 120/208 WYE AIC AVAILABLE: 2,539 A AIC RATING: 10000 A					FED FROM: H1DPNL1 WIRES: 4W + G ENCLOSURE: NEMA 1 BUS TYPE: COPPER MOUNTING: SURFACE PANEL LUGS: MCB NUMBER OF SECTIONS: 2					NEUTRAL BUS: YES GROUND BUS: YES ISOLATED GROUND BUS: NO 200% NEUTRAL: NO FEED THROUGH LUGS: YES POLES PER SECTION: 42									
CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS / POLES	A	B	C	CIRCUIT BREAKER POLES /...	TOTAL LOAD (VA)	DESCRIPTION	CKT NO.									
1	EXISTING LOAD	--	20	1			1	1,080	RCPT - NURSE WORK 1-1454	2									
3	EXISTING LOAD	--	20	1			1	1,020	RCPT - EXAM 11-1409	4									
5	RCPT - EXAM 22 1-1408	1,020	20	1			1	20	-- EXISTING LOAD	6									
7	RCPT - SOLID 1-1458	900	20	1			1	1,100	RCPT - NOURISH 1-1457	8									
9	RCPT - NOURISH 1-1457	900	20	1			1	360	RCPT - CORRIDOR-3 1-1417	10									
11	EXISTING LOAD	--	20	1			1	900	RCPT - NURSE STATION 01-14	12									
13	RCPT - NURSE STATION 1-1448	360	20	1			1	20	360 RCPT - CORRIDOR-9 1-1405	14									
15	RCPT - EMS 1-1424	720	20	1			1	20	-- SPARE	16									
17	RCPT - EMS 1-1424	900	20	1			1	20	-- EXISTING LOAD	18									
19	RCPT - EMS 1-1424	1,100	20	1			1	20	-- EXISTING LOAD	20									
21	RCPT - CORRIDOR 1-1447	540	20	1			1	20	-- EXISTING LOAD	22									
23	EXISTING LOAD	--	20	1			1	20	-- EXISTING LOAD	24									
25	RCPT - EXAM 20 1-1450	1,020	20	1			1	20	-- EXISTING LOAD	26									
27	RCPT - EXAM 21 1-1451	1,020	20	1			1	20	-- EXISTING LOAD	28									
29	RCPT - SHARED OFFICE 1-1452	360	20	1			1	20	-- EXISTING LOAD	30									
31	RCPT - STAFF LOUNGE 1-1406	1,080	20	1			1	20	-- SPARE	32									
33	RCPT - STAFF LOUNGE 1-1406	1,100	20	1			1	20	-- SPARE	34									
35	RCPT - STAFF LOUNGE 1-1406	900	20	1			1	20	-- SPARE	36									
37	RCPT - RECEPTION 1-1404	720	20	1			1	20	-- SPARE	38									
39	LGHT - ED CORRIDOR	1,143	20	1			1	20	-- SPARE	40									
41	LGHT - ED CORE	388	20	1			1	20	-- SPARE	42									
43	EXISTING LOAD	--	20	1			1	20	-- EXISTING LOAD	44									
45	RCPT - WAITING 1-1403	1,260	20	1			1	20	-- EXISTING LOAD	46									
47	EXISTING LOAD	--	20	1			1	20	-- SPARE	48									
49	EXISTING LOAD	--	20	1			1	20	-- SPARE	50									
51	EXISTING LOAD	--	20	1			1	20	-- SPARE	52									
53	LGHT - CANOPY	90	20	1			1	20	-- SPARE	54									
55	EXISTING LOAD	--	20	1			1	20	-- SPARE	56									
57	EXISTING LOAD	--	20	1			1	20	-- SPARE	58									
59	EXISTING LOAD	--	20	1			1	20	-- SPARE	60									
61	EXISTING LOAD	--	20	1			1	20	-- SPARE	62									
63	SPARE	--	20	1			1	20	-- SPARE	64									
65	SPARE	--	20	1			1	20	-- SPARE	66									
67	SPARE	--	20	1			1	20	-- SPARE	68									
69	SPARE	--	20	1			1	20	-- EXISTING LOAD	70									
71	EXISTING LOAD	--	20	1			1	20	-- EXISTING LOAD	72									
73	EXISTING LOAD	--	20	1			1	20	-- EXISTING LOAD	74									
75	EXISTING LOAD	--	20	1			1	20	-- EXISTING LOAD	76									
77	EXISTING LOAD	--	20	1			1	20	-- EXISTING LOAD	78									
79	EXISTING LOAD	--	20	1			1	20	-- EXISTING LOAD	80									
81	EXISTING LOAD	--	20	1			1	20	-- SPARE	82									
83	SPARE	--	20	1			1	20	-- SPARE	84									
68 A / 71 A / 38 A																			
LOAD CLASSIFICATION		CONNECTED LOAD (VA)		ESTIMATED DEMAND (VA)		PANEL TOTALS													
LGHT		1,621		2,026															
RCPT		18,720		14,360		EXISTING CONNECTED LOAD:													
						REMOVED CONNECTED LOAD:													
						ADDED CONNECTED LOAD:													
						TOTAL CONNECTED LOAD:													
						TOTAL ESTIMATED DEMAND:													
NOTES: EXISTING LOAD BASED ON 30-DAY METERED LOAD x 1.25 FROM 01/17/2025 - 02/16/2025.																			

NEW: H1NLJ					FED FROM: H1DPNL1		NORMAL				
LOCATION: ELEC 01-11 MAIN BUS: 225 A MCB: 150A VOLTAGE: 120/208 WYE AIC AVAILABLE: 2,576 A AIC RATING: 10000 A					WIRES: 4W + G ENCLOSURE: NEMA 1 BUS TYPE: COPPER MOUNTING: SURFACE PANEL LUGS: MCB NUMBER OF SECTIONS: 2		NEUTRAL BUS: YES GROUND BUS: YES ISOLATED GROUND BUS: NO 200% NEUTRAL: NO FEED THROUGH LUGS: YES POLES PER SECTION: 42				
CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS / POLES	A B C	CIRCUIT BREAKER POLES /...	TOTAL LOAD (VA)	DESCRIPTION	CKT NO.			
1	RCPT - EXAM 19 1-1439	1,020	20 1	1	1	1,020	RCPT - EXAM 9 1-1426	2			
3	RCPT - MEDS 1-1443	900	20 1	1	1	720	RCPT - CORRIDORNS 1-1441B, 1442	4			
5	RCPT - EXAM 10 1-1427	1,020	20 1	1	1	20	RCPT - EXTERIOR	6			
7	RCPT - ALCOVE 1-1428	900	20 1	1	1	20	RCPT - A.I.I. EXAM-11 1-1430	8			
9	RCPT - A.I.I. EXAM-11 1-1430	1,080	20 1	1	1	20	RCPT - CORRIDOR 1-1441A	10			
11	RCPT - NURSE STATION 1-1442	360	20 1	1	1	20	RCPT - NURSE STATION 1-1442	12			
13	RCPT - TRIAGE 1 1-1438	540	20 1	1	1	20	RCPT - EXAM 18 1-1437	14			
15	RCPT - BARIATRIC EXAM 17 1-1436	900	20 1	1	1	20	RCPT - EXAM 16 1-1435	16			
17	RCPT - EXAM 15 1-1434	1,020	20 1	1	1	20	RCPT - EXAM 14 1-1433	18			
19	RCPT - EXAM 13 1-1432	1,020	20 1	1	1	20	RCPT - EXAM 12 1-1431	20			
21	RCPT - IT 01-61	720	20 1	1	1	20	LGHT - ED CORE	22			
23	RCPT - TVJ - IT 01-61	180	20 1	1	1	20	LGHT - ED CORRIDOR	24			
25	RCPT - TVJ - IT 01-61	180	20 1	1	1	20	-- SPARE	26			
27	RCPT - LEVEL 2 ROOF	360	20 1	1	1	20	-- SPARE	28			
29	SPARE	--	20 1	1	1	20	-- SPARE	30			
31	SPARE	--	20 1	1	1	20	-- SPARE	32			
33	SPARE	--	20 1	1	1	20	-- SPARE	34			
35	SPARE	--	20 1	1	1	20	-- SPARE	36			
37	SPARE	--	20 1	1	1	20	-- SPARE	38			
39	SPARE	--	20 1	1	1	20	-- SPARE	40			
41	SPARE	--	20 1	1	1	20	-- SPARE	42			
43	SPARE	--	20 1	1	1	20	-- SPARE	44			
45	SPARE	--	20 1	1	1	20	-- SPARE	46			
47	SPARE	--	20 1	1	1	20	-- SPARE	48			
49	SPARE	--	20 1	1	1	20	-- SPARE	50			
51	SPARE	--	20 1	1	1	20	-- SPARE	52			
53	SPARE	--	20 1	1	1	20	-- SPARE	54			
55	SPARE	--	20 1	1	1	20	-- SPARE	56			
57	SPARE	--	20 1	1	1	20	-- SPARE	58			
59	SPARE	--	20 1	1	1	20	-- SPARE	60			
61	SPARE	--	20 1	1	1	20	-- SPARE	62			
63	SPARE	--	20 1	1	1	20	-- SPARE	64			
65	SPARE	--	20 1	1	1	20	-- SPARE	66			
67	SPARE	--	20 1	1	1	20	-- SPARE	68			
69	SPARE	--	20 1	1	1	20	-- SPARE	70			
71	SPARE	--	20 1	1	1	20	-- SPARE	72			
73	SPARE	--	20 1	1	1	20	-- SPARE	74			
75	SPARE	--	20 1	1	1	20	-- SPARE	76			
77	SPARE	--	20 1	1	1	20	-- SPARE	78			
79	SPARE	--	20 1	1	1	20	-- SPARE	80			
81	SPARE	--	20 1	1	1	20	-- SPARE	82			
83	SPARE	--	20 1	1	1	20	-- SPARE	84			
				66 A / 52 A / 44 A							
LOAD CLASSIFICATION		CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)		PANEL TOTALS						
LGHT		845	1,056		KVA		AMPS				
RCPT		18,420	14,210								
				TOTAL CONNECTED LOAD:		19.3	53.5				
				TOTAL ESTIMATED DEMAND:		15.3	42.4				
NOTES:											





Devenney Group Ltd., Architects

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Suite 500  
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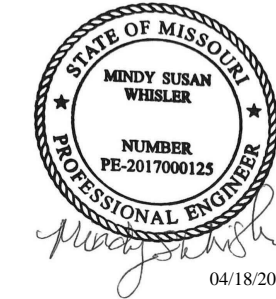
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Consultant:



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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:  
097240011

AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 04/18/25  
SCALE:  
DRAWN: WSP  
REVIEWED: WSP  
JOB NUMBER: U50040241.3707

## SCHEDULES - ELECTRICAL

E08-03

EXIST: HMQLA				EQUIPMENT				
LOCATION: MECH 2-ME1211				FED FROM: THMQLA				
MAIN BUS: 100 A				WIRES: 4W + G				
MCB: 60A				ENCLOSURE: NEMA 1				
VOLTAGE: 120/208 WYE				BUS TYPE: COPPER				
AIC AVAILABLE: 1,304 A				MOUNTING: SURFACE				
AIC RATING: 10000 A				PANEL LUGS: MCB				
				NUMBER OF SECTIONS: 1				
CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS / POLES	A B C	CIRCUIT BREAKER POLES /...	TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	EXISTING LOAD	--	20	1	1	20	AHU-1 LIGHTS	2
3	EXISTING LOAD	--	20	1	1	20	AHU-1 UV LIGHTS	4
5	EXISTING LOAD	--	20	1	1	20	EXISTING LOAD	6
7	PHP-1	828	20	1	1	20	EXISTING LOAD	8
9	EXISTING LOAD	--	20	1	1	20	EXISTING LOAD	10
11	EXISTING LOAD	--	20	1	1	20	EXISTING LOAD	12
13	SPACE	--	--	1	3	30	EXISTING LOAD	14
15	SPACE	--	--	1	--	--	EXISTING LOAD	16
17	SPACE	--	--	1	--	--	EXISTING LOAD	18
19	SPACE	--	--	1	1	--	SPACE	20
21	SPACE	--	--	1	1	--	SPACE	22
23	SPACE	--	--	1	1	--	SPACE	24
12 A / 5 A / 0 A								
LOAD CLASSIFICATION		CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)		PANEL TOTALS			
MISC		1,000	1,000				KVA	AMPS
MTRS		828	1,035		EXISTING CONNECTED LOAD:		32.6	90.5
					REMOVED CONNECTED LOAD:		2.6	7.2
					ADDED CONNECTED LOAD:		1.8	5.1
					TOTAL CONNECTED LOAD:		31.9	88.4
					TOTAL ESTIMATED DEMAND:		32.1	89
NOTES: EXISTING LOAD BASED ON 30-DAY METERED LOAD x 1.25 FROM 01/17/2025 - 02/16/2025.								

EXIST: HCPLLB				FED FROM: TH1LLB				NEUTRAL BUS: YES			
LOCATION: ICU ELEC RM				WIRES: 4W + G				GROUND BUS: YES			
MAIN BUS: 225 A				ENCLOSURE: NEMA 1				ISOLATED GROUND BUS: NO			
MCB: 100A				BUS TYPE: COPPER				200% NEUTRAL: NO			
VOLTAGE: 120/208 WYE				MOUNTING: SUFACE				FEED THROUGH LUGS: NO			
AIC AVAILABLE: 1,477 A				PANEL LUGS: MCB				POLES PER SECTION: 60			
AIC RATING: 10000 A				NUMBER OF SECTIONS: 1							
CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS / POLES	A	B	C	CIRCUIT BREAKER POLES /...	TOTAL LOAD (VA)	DESCRIPTION	CKT NO.	
1	EXISTING LOAD	--	20	1			1	20	EXISTING LOAD	2	
3	EXISTING LOAD	--	20	1			1	20	EXISTING LOAD	4	
5	JBOX - AAP CORRIDOR 1-1441	200	20	1			1	20	JBOX - AAP CORRIDOR 1-1417	6	
7	JBOX - FSD CORRIDOR 1-1447	500	20	1			1	20	400 JBOX - AUTO DOOR CORR 1-1407, 1447	8	
9	AUTODOOR - CORRIDOR-1 01-49	200	20	1			1	20	400 JBOX - AUTO DOOR ENTRY 1-1400	10	
11	SPARE	--	20	1			1	20	LGHT - ED	12	
13	SPARE	--	20	1			1	20	SPARE	14	
15	SPARE	--	20	1			1	20	SPARE	16	
17	SPARE	--	20	1			1	20	SPARE	18	
19	SPARE	--	20	1			1	20	SPARE	20	
21	SPARE	--	20	1			1	20	SPARE	22	
23	SPARE	--	20	1			1	20	SPARE	24	
25	SPARE	--	20	1			1	20	SPARE	26	
27	SPARE	--	20	1			1	20	SPARE	28	
29	SPARE	--	20	1			1	20	SPARE	30	
31	SPARE	--	20	1			1	20	SPARE	32	
33	SPARE	--	20	1			1	20	SPARE	34	
35	SPARE	--	20	1			1	20	SPARE	36	
37	SPARE	--	20	1			1	20	SPARE	38	
39	SPARE	--	20	1			1	20	SPARE	40	
41	SPARE	--	20	1			1	20	SPARE	42	
43	SPARE	--	20	1			1	20	SPARE	44	
45	SPARE	--	20	1			1	20	SPARE	46	
47	SPARE	--	20	1			1	20	SPARE	48	
49	SPARE	--	20	1			1	20	SPARE	50	
51	SPARE	--	20	1			1	20	SPARE	52	
53	SPARE	--	20	1			1	20	SPARE	54	
55	EXISTING LOAD	--	30	3			1	20	SPARE	56	
57	--	--	--	--			1	20	SPARE	58	
59	--	--	--	--			1	20	SPARE	60	
8 A / 5 A / 11 A											
LOAD CLASSIFICATION		CONNECTED LOAD (VA)		ESTIMATED DEMAND (VA)		PANEL TOTALS					
LGHT		823		1,029				KVA	AMPS		
MISC		1,900		1,900		EXISTING CONNECTED LOAD:		2	5.7		
						REMOVED CONNECTED LOAD:		0	0		
						ADDED CONNECTED LOAD:		2.7	7.6		
						TOTAL CONNECTED LOAD:		4.8	13.2		
						TOTAL ESTIMATED DEMAND:		5	13.8		
NOTES: EXISTING LOAD BASED ON DESIGN LOADS FROM 2022 ICU EXPANSION PROJECT.											

EXIST: H1QLA						EQUIPMENT			
LOCATION: ELEC 1-ME1434			FED FROM: TH1QLA			NEUTRAL BUS: YES			
MAIN BUS: 250 A			WIRES: 4W + G			GROUND BUS: YES			
MCB: 250A			ENCLOSURE: NEMA 1			ISOLATED GROUND BUS: NO			
VOLTAGE: 120/208 WYE			BUS TYPE: COPPER			200% NEUTRAL: NO			
AIC AVAILABLE: 4,505 A			MOUNTING: SURFACE			FEED THROUGH LUGS: YES			
AIC RATING: 10000 A			PANEL LUGS: MCB			POLES PER SECTION: 42			
			NUMBER OF SECTIONS: 1						
CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS / POLES	A B C	CIRCUIT BREAKER POLES /...	TOTAL LOAD (VA)	DESCRIPTION	CKT NO.	
1	EXISTING LOAD	--	20 1		1 20	--	EXISTING LOAD	2	
3	EXISTING LOAD	--	20 1		1 20	--	EXISTING LOAD	4	
5	EXISTING LOAD	--	20 1		1 20	--	EXISTING LOAD	6	
7	EXISTING LOAD	--	20 1		1 20	--	EXISTING LOAD	8	
9	EXISTING LOAD	--	20 1		1 20	--	EXISTING LOAD	10	
11	EXISTING LOAD	--	20 1		1 20	--	EXISTING LOAD	12	
13	SPARE	--	20 1		1 20	--	EXISTING LOAD	14	
15	EXISTING LOAD	--	20 1		1 20	--	EXISTING LOAD	16	
17	EXISTING LOAD	--	20 1		1 20	--	EXISTING LOAD	18	
19	EXISTING LOAD	--	20 1		1 20	--	SPARE	20	
21	EXISTING LOAD	--	20 1		1 20	500	JB - VAV CORRIDOR 1-1459	22	
23	EXISTING LOAD	--	20 1		1 20	500	JB - VAV CORRIDOR 1-1447	24	
25	EXISTING LOAD	--	20 1		1 20	500	JB - VAV CORRIDOR 1-1441A	26	
27	EXISTING LOAD	--	20 1		2 30	4,784	AC-1 - IT 01-61	28	
29	ARC-1 - VESTIBULE 01-58	1,295	20 3		--	--	--	30	
31	--	--	--		1 20	1,200	JB - CONDENSATE PUMP - IT 01-61	32	
33	--	--	--		1 20	--	SPARE	34	
35	ARC-1 DOOR SWITCH - VESTIBULE 01-58	500	20 1		1 20	--	SPARE	36	
37	SPARE	--	20 1		3 100	--	PANEL H2QLA	38	
39	SPARE	--	20 1		--	--	--	40	
41	SPARE	--	20 1		--	--	--	42	
18 A / 29 A / 33 A									
LOAD CLASSIFICATION		CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)		PANEL TOTALS				
MISC		1,500	1,500		EXISTING CONNECTED LOAD:		KVA	AMPS	
MTRS		7,779	8,975		REMOVED CONNECTED LOAD:		18.2	50.4	
					ADDED CONNECTED LOAD:		0	0	
					TOTAL CONNECTED LOAD:		9.3	25.8	
					TOTAL ESTIMATED DEMAND:		27.5	76.2	
							28.6	79.5	
NOTES: EXISTING LOAD IS BASED ON 30 DAY METERING LOAD FROM 06/05/2024 - 07/05/2024 X 1.25.									

		HMQLA
		HCPLLB
		H1QLA



ACCESS CONTROL SYMBOLS LEGEND				
ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.				
SYMBOL	DESCRIPTION		BACK BOX	MTG. HEIGHT UNO (NOTE 1)
	MOUNT	TECHNOLOGY		CEILING OR WALL MOUNT
EXAMPLE	C-CEILING F-FLUSH M-MULLION R-RACK T-TURNSTILE	D-DESK H-HIDDEN P-POLE S-SURFACE W-WALL	-SPECIFIC TO DEVICE -CAN BE MULTIPLE  EX-EXISTING ETR-EXISTING TO REMAIN	XX
CR	CARD ACCESS READER S- SMART CARD F- ELEVATOR FLOOR CALL I-CLASS M- MAGSTRIPE		H- ELEVATOR HALL CALL P- PROXIMITY W- WIEGAND	D1 48" AFF
BR	BIOMETRIC ACCESS READER F- FINGERPRINT I-IRIS V-VOICE		H- HAND GEOMETRY R- RETINA	D1 48" AFF
CK	CARD ACCESS READER W/KEYPAD B- BARCODE F- ELEVATOR FLOOR CALL I-CLASS M- MAGSTRIPE		S- SMART CARD H- ELEVATOR HALL CALL P- PROXIMITY W- WIEGAND DUAL PUSH BUTTON	D1 48" AFF
KP	KEYPAD D- DRY CONTACT		W- WIEGAND	D1 48" AFF
PB	PUSH BUTTON D- DIRECT POWER DROP		X- REQUEST TO EXIT	D2 48" AFF
RR	REMOTE RELEASE BUTTON U- UNDER COUNTER		W- WALL	D2 18" AFF
ACP	ACCESS CONTROL PANEL			N/A (NOTE#4)
DC	DOOR CONTACT			N/A AS REQD.
PB	PANIC BUTTON H- HARDWIRED		W- WIRELESS	N/A AS REQD.
KS	KEY SWITCH A- ALTERNATE ACTION K- KEYED ALIKE L- LED		IC- INTERCHANGEABLE CORE L- LATCHING M- MOMENTARY	D2 48" AFF
LPS	LOCK POWER SUPPLY			N/A AS REQD.
PP / WPP	PUSH PAD/ WAVE PLATE - DOOR OPENING ACTUATOR (NOTE #3)			D2 48" AFF

ACCESS CONTROL NOTES:  
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES.  
2. REFER TO FLOOR PLANS FOR DEVICE LOCATION LAYOUT.  
3. PUSH PAD/WAVE PLATES ARE SHOWN FOR COORDINATION OF BACK BOX ROUGH IN PURPOSES ONLY. REFER TO DIV 08 SPECIFICATIONS FOR ADDITIONAL HARDWARE INFORMATION.  
4. REFER TO ENLARGED COMM ROOM LAYOUT FOR EXACT PLACEMENT OF ACCESS CONTROL EQUIPMENT.

ACCESS CONTROL BACK BOX SCHEDULE				
SYMBOL	DESCRIPTION			
D1	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.			
D2	DOUBLE GANG BACK BOX, 3 1/2" DEEP, WITH SINGLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.			
D3	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH DOUBLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.			
D4	DOUBLE GANG BACK BOX, 3 1/2" DEEP, WITH DOUBLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.			
P1	PROPRIETARY BACK BOX WITH 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE. REFER TO MANUFACTURER SPECIFICATIONS FOR DEVICE BACK BOX REQUIREMENTS AND PART #S.			

VIDEO SURVEILLANCE SYMBOLS LEGEND				
ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.				
SYMBOL	DESCRIPTION		BACK BOX	MTG. HEIGHT UNO (NOTE 1)
	M-MOUNTING TYPE	T-TECHNOLOGY (CAMERA TYPE)		CEILING OR WALL MOUNT
EXAMPLE	C-CEILING F-FLUSH M-MULLION P-PARAPET R-RACK S-SURFACE T-TURNSTILE W-WALL	D-DESK H-HIDDEN P-POLE S-SURFACE CO-CORNER	-SPECIFIC TO DEVICE -CAN BE MULTIPLE -SHOWN BELOW FOR EACH CAMERA ZZZ= FIELD OF VIEW	XX
ST	STATIONARY CAMERA E- ENVIRONMENTAL P- POE V- VANDAL RESISTANT		C- COVERT D- DOME F- FISHEYE	AS REQD.
PZ	PAN/TILT/ZOOM CAMERA S- BOX P- POE V- VANDAL RESISTANT		E- ENVIRONMENTAL D- DOME	AS REQD.
MZ	2 SENSOR CAMERA E- ENVIRONMENTAL D- DOME		P- POE V- VANDAL RESISTANT	AS REQD.
MZ	3 SENSOR CAMERA E- ENVIRONMENTAL D- DOME		P- POE V- VANDAL RESISTANT	AS REQD.
MZ	4 SENSOR CAMERA E- ENVIRONMENTAL D- DOME		P- POE V- VANDAL RESISTANT	AS REQD.
MZ	MONITOR D- DESK R- RECESSED		S- SWING ARM T- WITH TILT W- WALL MOUNT	D2 AS REQD.
NVR	VIDEO RECORDER D- DVR		N- NVR	AS REQD.
SW	SWITCH K- KEY SWITCH P- PUSH BUTTON		T- TOGGLE	D2 AS REQD.
PS	POWER SUPPLY A- 12VDC B- 24VAC		P- POE	AS REQD.

VIDEO SURVEILLANCE NOTES				
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES. 2. REFER TO FLOOR PLANS FOR DEVICE LOCATION LAYOUT. 3. REFER TO ENLARGED COMM ROOM LAYOUT AND TYPICAL EQUIPMENT RACK LAYOUTS FOR EXACT PLACEMENT OF HEADEND EQUIPMENT.				
VIDEO SURVEILLANCE BACK BOX SCHEDULE				
TYPE	DESCRIPTION			
INDOOR WALL MOUNT	DOUBLE GANG BACK BOX, 2 1/8" DEEP, MOUNTED VERTICALLY, WITH SINGLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.			
INDOOR CEILING MOUNT	LAY IN CEILING, 20 METAL CAMERA CEILING TILE WITH ADDITIONAL CEILING GRID SUPPORT. HARD-PAN CEILING, DOUBLE GANG BACK BOX, 2 1/8" DEEP, FLUSH MOUNTED IN CEILING, AND 3/4" CONDUIT PATHWAY STUBBED TO ABOVE ACCESSIBLE CEILING SPACE.			
OUTDOOR WALL MOUNT	SINGLE GANG WEATHERPROOF BACK BOX, 2 1/8" DEEP, FLUSH MOUNTED VERTICALLY, AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE WITHIN BUILDING.			
OUTDOOR CORNER MOUNT	DOUBLE GANG ALUMINUM WEATHERPROOF BACK BOX, 2 1/8" DEEP, SURFACE MOUNTED APPROXIMATELY SAME HEIGHT AS CORNER MOUNT, 3/4" LIQUID-TITE FROM BACK BOX TO CAMERA (WITH DRIP LOOP), AND 3/4" CONDUIT PATHWAY FROM BACK BOX STUBBED TO ABOVE ACCESSIBLE CEILING SPACE WITHIN BUILDING.			
PARAPET MOUNT	DOUBLE GANG ALUMINUM WEATHERPROOF BACK BOX, 2 1/8" DEEP, SURFACE MOUNTED ON INSIDE OF PARAPET, 3/4" LIQUID-TITE FROM BACK BOX TO CAMERA (WITH DRIP LOOP), AND 3/4" CONDUIT PATHWAY FROM BACK BOX STUBBED TO ABOVE ACCESSIBLE CEILING SPACE WITHIN BUILDING.			

NURSE CALL SYMBOLS LEGEND				
ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.				
SYMBOL	DESCRIPTION	BACK BOX	MTG. HEIGHT UNO (NOTE 1)	
NM	NURSE CALL CONSOLE (GRAPHICAL STAFF CONSOLE, DESK MT. - GRS10)	AA	NOTE#3	
RM	37 PIN BED CONNECTOR OUTLET (AUDIO STATION BED CONNECTOR)	BB	18" AFF	
D	DOME LIGHT, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF DOME LIGHT. MAY BE CEILING MOUNTED OR WALL MOUNTED.	DD	CEILING OR WALL MOUNT	
Z	ZONE DOME LIGHT, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF DOME LIGHT. MAY BE CEILING MOUNTED OR WALL MOUNTED.	DD	CEILING OR WALL MOUNT	
D-S	DOME LIGHT- SINGLE BULB, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF DOME LIGHT. MAY BE CEILING MOUNTED OR WALL MOUNTED.	DD	CEILING OR WALL MOUNT	
KS	KEY SWITCH (ENABLE/DISABLE)	BB	48" AFF	
1J	SINGLE JACK AUXILIARY ALARM INPUT STATION (EQUIPMENT RECEPTACLE)	BB	48" AFF	
2J	DUAL JACK AUXILIARY ALARM INPUT STATION (EQUIPMENT RECEPTACLE)	BB	48" AFF	
6J	SIX JACK AUXILIARY ALARM INPUT STATION (EQUIPMENT RECEPTACLE)	BB	48" AFF	
CR	SINGLE PUSH BUTTON/SWITCH STATION - CODE BLUE	BB	48" AFF	
EP	EMERGENCY PUSH BUTTON/SWITCH STATION - STAFF EMERGENCY/BATH	BB	48" AFF	
RA	REMOTE AUDIO DEVICE W/CODE BLUE	BB	48" AFF	
PA	EMERGENCY PUSH BUTTON/SWITCH STATION W/AUDIO - STAFF EMERGENCY/BATH	BB	48" AFF	
CP	SINGLE PUSH BUTTON/SWITCH STATION - CODE PINK	BB	48" AFF	
SP	SINGLE PATIENT STATION: STANDARD ROOM STATION W/O CODE BLUE LEVER - (SRS or GRS)	CC	48" AFF	
SP-CB	SINGLE PATIENT STATION: STANDARD ROOM STATION W/ CODE BLUE LEVER - (SRS or GRS) (DEVICE EQUIPPED WITH STAFF ASSIST/ODDIE BLUE)	CC	48" AFF	
D	DUTY STATION - STANDARD ROOMS STATION W/O CODE BLUE (SRS)	CC	48" AFF	
RCB	ROOM CONTROL BOARD MOUNTED MINIMUM OF 6" ABOVE FINISHED CEILING	FF	ABOVE ACCESSIBLE CEILING	

[TV]	NURSE CALL - TELEVISION CROSS ROOM CONTROL CONNECTION	NOTE#3	NA
[TVC]	CURBELL WALL MOUNTED REMOTE ENTERTAINMENT STATION	BB	NA
[LL]	NURSE CALL - OVERBED LIGHT LIGHTING CONNECTION	BB	NA
[NCSER]	NURSE CALL NETWORK SWITCH MOUNTED INTO VENDOR RACK	NA	NA

NURSE CALL BACK BOX SCHEDULE				
SYMBOL	DESCRIPTION			
AA	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.			
BB	DOUBLE GANG BACK BOX, 3 1/2" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.			
CC	3 DEVICE BACK BOX, NON GANGABLE, 3 1/2" DEEP AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.			
DD	DOUBLE GANG BACK BOX, 3 1/2" DEEP, AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE. CONFIRM WITH SYSTEM VENDOR FOR DEVICE RING SIZE FOR THIS DEVICE.			
EE	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH BLANK COVER PLATE AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.			
FF	12" X 12" X 4" STEEL BOX ENCLOSURE MOUNTED ABOVE ACCESSIBLE CEILING SPACE. ENCLOSURE PROVIDED BY NURSE CALL VENDOR.			

NURSE CALL CABLE SCHEDULE		
SYMBOL	DESCRIPTION	MODEL # (BELDEN)
A	4 PAIR CAT 5/6 24AWG - NURSE CALL DATA CABLE	1583A
B	2 CONDUCTOR 12AWG - NURSE CALL POWER	5000UE
C	3 CONDUCTOR 22AWG, TV AND LOW VOLTAGE LIGHT RELAY	5501UE
F	6 STRAND MULTIMODE FIBER, ARMORED	B98240

NURSE CALL NOTES:  
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.  
2. NURSE CONSOLE RECEPTACLE SHALL BE MOUNTED AT 18" AFF, UNLESS OTHERWISE NOTED, AND THE ACTUAL DEVICE SHALL RESIDE ON THE COUNTERTOP.  
3. TV CONTROL OUTLET SHALL BE MOUNTED IN SAME BACK BOX AS THE TV COAX/DATA CABLE.

GENERAL SYMBOLS LEGEND				
ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.				
		2"	UNLESS NOTED OTHERWISE, PRE-MANUFACTURED SLEEVE FIRE RATED PATHWAY DEVICE THROUGH RATED WALL, EMT SLEEVE THROUGH NON-RATED WALL.	
			VERTICAL CORE AND SLEEVE THROUGH FLOOR. PROVIDE EMT SLEEVE, EQUIPPED WITH PLASTIC BUSHING ON BOTH ENDS. REFER TO FLOOR PLANS FOR SIZING. RATING SHALL MATCH FLOOR BEING PENETRATED. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR RATINGS.	
			2 POST FREESTANDING EQUIPMENT RACK. SIZE AND LOCATION AS SHOWN ON DRAWINGS AND SPECS.	
			4 POST FREESTANDING EQUIPMENT RACK. SIZE AND LOCATION AS SHOWN ON DRAWINGS AND SPECS.	
			BASKET TRAY SIZE AND LOCATION AS SHOWN ON DRAWINGS AND SPECS.	
			TELECOMMUNICATIONS GROUND BUSS BAR (TGB) - 1/4" X 4" X 1/2", C/P1 PART # 40153-012 OR EQUAL	

OUTLET SYMBOLS LEGEND				
ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.				
# = DESIGNATES CABLE/JACK COUNT FOR DEVICE				
SYMBOL	DESCRIPTION	MTG. HEIGHT UNO (NOTE 1)		
VO	VOICE ONLY OUTLET	18" AFF		
HD	HOSPITAL DATA NETWORK ONLY OUTLET	18" AFF		
#VO	COMBINATION VOICE & HOSPITAL DATA NETWORK OUTLET	18" AFF		
PM	PHYSIOLOGICAL MONITORING NETWORK OUTLET	18" AFF		
FM	FETAL MONITORING NETWORK OUTLET	18" AFF		
PM/HD	COMBINATION PHYSIOLOGICAL MONITORING NETWORK & HOSPITAL DATA NETWORK OUTLET	18" AFF		
W VO	VOICE AND/OR DATA OUTLET, WALL PHONE STYLE FACEPLATE, 1 VOICE/DATA CABLE. PROVIDE DOUBLE GANG BACK, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.	48" AFF		
W VO	VOICE AND/OR DATA OUTLET, WALL PHONE STYLE FACEPLATE, 1 VOICE/DATA CABLE, MOUNTED ABOVE COUNTER, PROVIDE DOUBLE GANG BACK, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.	42" AFF		
VO	ABOVE COUNTER OUTLET, #CABLE QUANTITY, MOUNTED ABOVE THE COUNTERTOP, PROVIDE DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.	42" AFF		
	FLOOR MOUNTED OUTLET, #CABLE QUANTITY. REFER TO ELECTRICAL (E) SHEETS FOR ADDITIONAL ROUGH IN REQUIREMENTS.	FLOOR		
	CEILING MOUNTED OUTLET, #CABLE QUANTITY, OUTLET TO BE HOUSED ABOVE ACCESSIBLE CEILING. CABLE TO LOCATION SHOWN ON THE FLOOR PLANS AND LEAVE A MINIMUM 25 FEET COILED AT THE LOCATION.	ABOVE ACCESSIBLE CEILING		
WAP	DATA OUTLET FOR WIRELESS ACCESS POINT DEVICE, #CABLE QUANTITY. OUTLET TO BE HOUSED ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE. CABLE TO LOCATION SHOWN ON THE FLOOR PLANS AND LEAVE A MINIMUM 25 FEET COILED AT THE OUTLET LOCATION. ROUTE OTHER END TO NEAREST TELEMETRY BACKBOARD LOCATION, LEAVING A MINIMUM 15 FEET COILED UP.	ABOVE ACCESSIBLE CEILING		
TELE	WIRELESS TELEMETRY MONITORING OUTLET, #CABLE QUANTITY. OUTLET TO BE LOCATED ABOVE ACCESSIBLE CEILING SPACE. CABLE TO LOCATION SHOWN ON THE FLOOR PLANS AND LEAVE A MINIMUM 25 FEET COILED AT THE OUTLET LOCATION. ROUTE OTHER END TO NEAREST TELEMETRY BACKBOARD LOCATION, LEAVING A MINIMUM 15 FEET COILED UP.	ABOVE ACCESSIBLE CEILING		
RTLS	DATA OUTLET FOR RTLS DEVICE, #CABLE QUANTITY. OUTLET TO BE HOUSED ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE. CABLE TO LOCATION SHOWN ON THE FLOOR PLANS WITH A MINIMUM 25 FEET COILED AT THE DEVICE LOCATION.	ABOVE ACCESSIBLE CEILING		






VOICEDATA NOTES:  
1. VOICE, DATA AND/OR COMBINATION OUTLET, #OUTLET/CABLE QUANTITY, PROVIDE DOUBLE GANG DEVICE BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.  
2. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.  
3. CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF OUTLETS FOR TELEVISIONS, INFO, MONITORS, DIGITAL SIGNAGE, AND/OR OTHER WALL MOUNTED MONITORS WITH VENDOR PROVIDED MOUNTING BRACKET PRIOR TO ROUGH IN.  
4. 48" AFF INDICATES TO TOP OF DEVICE.  
18" AFF INDICATES TO CENTER OF DEVICE.  
60" AFF INDICATES TO BOTTOM OF DEVICE.  
80" AFF INDICATES TO BOTTOM OF DEVICE.  
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.  
5. SOME DEVICES MAY HAVE SPECIAL DESCRIPTORS (MEDS, PYS, ETC.) CALLING OUT EQUIPMENT SERVED BY OUTLET. SEE ABBREVIATIONS FOR REFERENCE.  
6. "V" AND "D" DESIGNATIONS MAY NOT BE USED IF FACILITY UTILIZES VoIP TELEPHONES, IN WHICH CASE ALL CABLING SHALL BE INSTALLED AS NETWORK CABLING WITHIN THE SAME PATCH PANELS.

MONITOR OUTLET SYMBOLS LEGEND				
ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.				
SYMBOL	DESCRIPTION	BACK BOX	MTG. HEIGHT UNO (NOTE 1)	
TRK/HD	TRACKER MONITOR: #CABLE QUANTITY	D	NOTE 2	
INF/HD	INFORMATION MONITOR: #CABLE QUANTITY	D	NOTE 2	
MON/PM	WALL MOUNTED PHYSIOLOGICAL MONITORING TRACKER MONITOR: #CABLE QUANTITY OF PATIENT MONITORING DATA CABLES	A	NOTE 2	
MON/PM	WALL MOUNTED FETAL MONITORING TRACKER MONITOR: #CABLE QUANTITY OF FETAL MONITORING DATA CABLES	A	NOTE 2	
SEC/HD	SECURITY TRACKER MONITOR: #CABLE QUANTITY	D	NOTE 2 & 4	
TV/HD	NON-CLINICAL TELEVISION (WAITING RM, BREAK RM, ETC.): TELEVISION OUTLET - ONE RG6 COAX CABLE + #CABLE QUANTITY OF DATA CABLES	D	NOTE 2 & 3	
PTV/4	PATIENT ROOM TELEVISION OUTLET: ONE RG6 COAX CABLE, NURSE CALL PILLOW SPEAKER JACK, & FOUR DATA CABLES	E	NOTE 2 & 3	
[TV]	TV JUNCTION BOARD. PROVIDE A MINIMUM 4" X 4" OF CLEAR WALL BACKBOARD SPACE FOR CATV EQUIPMENT AND CONNECTIONS. REFER TO CONTRACT DRAWINGS FOR EXACT LOCATION OF TVJ.	N/A	N/A	

TELEVISION ROUGH IN LEGEND				
SYMBOL	DESCRIPTION			
A	DOUBLE GANG BACK BOX, 2 1/2" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.			
B	DOUBLE GANG BACK BOX, 2 1/2" DEEP, WITH DOUBLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.			
C	TRIPLE GANG BACK BOX, 2 1/2" DEEP AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE. POWER AND LOW VOLTAGE OUTLET SHALL SHARE SAME BACK BOX. CONTRACTOR TO PROVIDE VOLTAGE PARTITION WITHIN BACK BOX.			
D	ARLINGTON RECESSED AV BOX (PART # TVBS807). PROVIDE (1) 1" CONDUIT PATHWAY STUBBED TO ABOVE ACCESSIBLE CEILING SPACE.			
E	ARLINGTON RECESSED AV BOX (PART # TVBS803). PROVIDE (1) 1" CONDUIT PATHWAY STUBBED TO ABOVE ACCESSIBLE CEILING SPACE.			

TELEVISION NOTES				
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES. 2. COORDINATE OUTLET LOCATION WITH TV MOUNTING BRACKET PRIOR TO ROUGH IN. 3. REFER TO RESPONSIBILITY MATRIX BOX FOR OWNERSHIP OF RESPONSIBILITY AT TELEVISION DEVICE OUTLET. 4. REFER TO SECURITY SHEETS FOR DEVICE LOCATION. 5. 48" AFF INDICATES TO TOP OF DEVICE. 18" AFF INDICATES TO CENTER OF DEVICE. 80" AFF INDICATES TO BOTTOM OF DEVICE. ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE. "V" AND "D" DESIGNATIONS MAY NOT BE USED IF FACILITY UTILIZES VoIP TELEPHONES, IN WHICH CASE ALL CABLING SHALL BE INSTALLED AS NETWORK CABLING WITHIN THE SAME PATCH PANELS.				

ABBREVIATIONS	
ACP	ACCESS CONTROL PANEL
AF	ABOVE FINISHED FLOOR
AF	ABOVE FINISHED FLOOR
AMP	AUTHORITY HAVING JURISDICTION
AMP	OVERHEAD PAGING AMPLIFIER
AV	AUDIO VISUAL DEVICE/EQUIP (COORDINATE OUTLET INSTALLATION WITH AV VENDOR)
BAS/BMS	BUILDING AUTOMATION/MANAGEMENT SYSTEM (COORDINATE OUTLET INSTALLATION WITH BMS VENDOR)
BFC	BELOW FINISHED CEILING
BVC	BABY VIEWING CAMERA DEVICE
CAB	CABINET
CD	WALL MOUNTED "CC" WORKSTATION (IF APPLICABLE)
CLK	WALL CLOCK
CP	COMPUTER WORKSTATION
CT	CABLE TRAY
DAS	DISTRIBUTED ANTENNA SYSTEM
DEMARC	DEMARCATION ROOM
DIA	DIAMETER
EMT	ELECTRICAL METAL TUBING
EQ	EQUIPMENT
EV	ELECTRIC VEHICLE CHARGING STATION
EX	EXISTING
FM	FETAL MONITORING
NC	INFANT PROTECTION SYSTEM
IDF	INTERMEDIATE DISTRIBUTION FRAME (SEE TDR)
INFO	INFORMATION MONITOR
INFO	"JUMPSTART" DEVICE (MOUNTED NEXT TO KRONOS TIME CLOCK. MOUNT AT 48" AFF)
NC	LOW VOLTAGE
LX	LOW VOLTAGE
MAX	MAXIMUM
MDP	MAN DISTRIBUTION FRAME (SEE TEG)
MEDS	MEDICATION DISTRIBUTION EQUIPMENT
MFR	MANUFACTURER
MIN	MINIMUM
MON	MONITOR
NA	NOT APPLICABLE
NC	NURSE CALL
NTS	NOT TO SCALE
OR INT	OPERATING ROOM INTEGRATION EQUIPMENT (COORDINATE INSTALLATION WITH OR INT. VENDOR)
PACS	PACS VIEWING STATION
PM	PHYSIOLOGICAL/PATIENT MONITORING
PROX	WALL MOUNTED "PROXIMITY SYSTEMS" WORKSTATION (IF APPLICABLE)
PTS	PNEUMATIC TUBE SYSTEM (COORDINATE OUTLET INSTALLATION WITH PTS VENDOR)
PTV	PATIENT TELEVISION
RTLS	REAL TIME LOCATING SYSTEM
RTLS	EMPLOYEE TIME CLOCK (MOUNTED AT 48" AFF)
TDR	TELECOMMUNICATIONS DISTRIBUTION ROOM (SEE IDF)
TEC	TELECOMMUNICATIONS EQUIPMENT CENTER (SEE IDF)
TELE	TELEMETRY SYSTEM
TRK	TRACKER MONITOR
TV	TELEVISION
UNO/NO	UNLESS NOTED OTHERWISE/UNLESS OTHERWISE NOTED
WAP	WALL PHONE (MOUNTED AT 48" AFF)
WP	WEATHERPROOF
WRK	WALL MOUNTED WORKSTATION ON ARM

PUBLIC ADDRESS LEGEND				
ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.				
SYMBOL	DESCRIPTION			MTG HEIGHT UNO (NOTE 1)
 M Z	PA SPEAKER Z = ZONE NUMBER M = MOUNT	M- C = LAY IN CEILING F = CEILING FLUSH (HARD LID) W = WALL P = POLE L = LANDSCAPE	PO = PENDANT	NA
 M Z	PA SPEAKER - HORN TYPE Z = ZONE NUMBER M = MOUNT	M- W = WALL F = POLE L = LANDSCAPE		NA
 V Z	PA VOLUME CONTROL - DOUBLE GANG BACKBOX 2 1/2" DEEP, WITH SINGLE GANG DEVICE COVER, 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE. Z = ZONE NUMBER			48" AFF
 M Z	PA AMPLIFIER Z = ZONE NUMBER M = MOUNT	M- W = WALL SHELF R = RACK/CABINET		NA
 M Z	PA HEADEND - MIXER, AUDIO INPUTS AND CONTROLS Z = ZONE NUMBER M = MOUNT	M- W = WALL SHELF R = RACK/CABINET		NA



A. ALL EXISTING DEVICES MAY NOT BE SHOWN ON PLAN. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH ARCHITECTURAL PLANS AND OTHER TRADES TO DETERMINE THE OUTCOME OF EACH DEVICE. WHERE NO CONSTRUCTION IS TO OCCUR, EXISTING DEVICES SHALL BE REMOVED OR PLACED AND/OR RELOCATED TO THE PROPER LOCATION. CONTRACTOR SHALL FIELD VERIFY INFORMATION PROVIDED ON THESE DRAWINGS HAVE BEEN TAKEN FROM DESIGN DRAWING AND FIELD OBSERVATIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PRICING AND CONSTRUCTION OF THE WORKMENT OF THE PROJECT.

C. PROVIDE FOR ANY AND ALL DEMOLITION WORK NECESSARY TO ACCOMMODATE ALL NEW CONSTRUCTION. THIS INCLUDES BUT NOT LIMITED TO:

D. WHERE EXISTING WALLS ARE BEING DEMOLISHED, REMOVE ALL EXISTING COMMUNICATIONS (LOW VOLTAGE DEVICES AND THEIR ASSOCIATED CONDUITS, BOXES/BOXES AND CABLES) BACK TO POINT OF ORIGIN. EXISTING CONDUITS SHALL BE REMOVED TO THE POINT OF ORIGIN. EXISTING CABLES SHALL BE SUPPORTED UTILIZING J-HOOK CABLE SUPPORTS INSTALLED PER DIVISION 27 SPECIFICATIONS.

E. CONTRACTOR SHALL COORDINATE THE REMOVAL OR RELOCATION OF ALL COMMUNICATIONS (LOW VOLTAGE DEVICES INCLUDING BUT NOT LIMITED TO: TELEVISION, VIDEO, TELEPHONE, TELETYPE, TELETYPE, SURVEILLANCE CAMERAS, PHYSICAL/MONITORING, TELEMETRY, NURSE CALL, SECURITY ACCESS CONTROL, ETC.) WITH ARCHITECTURAL DRAWINGS.

F. CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER UNLESS SPECIFIED OTHERWISE BY EITHER THE CONSTRUCTION DOCUMENTS OR THE OWNER. DEMOLITION MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY A LEGAL MANAGER.

G. REMOVAL AND RESTORATION OF THE EXISTING DAMAGE TO PREPOOFING, FINISHES OR STRUCTURE CAUSED BY TELECOM, LOW VOLTAGE, OR SECURITY CONTRACTORS. RESTORATION SHALL BE RESTORED TO "SAME CONDITION AS BEFORE DAMAGE OCCURRED." CONTRACTOR SHALL OBTAIN THE APPROVAL OF THE ARCHITECT AND THE OWNER.

H. WHEN THE CONTRACTOR SHALL RESTORE THE AREA TO PREVIOUS CONDITION, OR REPLACEMENT DAMAGED ITEMS AND ITEMS SHALL BE REPLACED WITH THE SAME OR BETTER.

I. WHERE AREAS BEING DEMOLISHED CONTAIN INFANT PROTECTION SYSTEM (IPS) DEVICES, CONTRACTOR SHALL DISABLE PSE EQUIPMENT AND PROVIDE INTERIM SYSTEM PROGRAMMING prior to REMOVAL TO PREVENT ALARMING.

J. CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER UNLESS SPECIFIED OTHERWISE BY THE EXISTING CHASING THAT TO REMAIN THAT WILL BE ROUTING THROUGH NEW WALL PARTITIONS. SHALL BE FITTED WITH A PRE-FACTURED SPLIT SLEEVE DEVICE, FASTENED AROUND THE CABLEING THAT IS TO BE REMOVED. SLEEVES SHALL BE INSTALLED TO THE POINT OF ORIGIN. CONTRACTOR SHALL FIELD VERIFY SPECIFICATIONS TO MEET OR EXCEED THE WALL RATING THAT IS BEING GENERATED.

K. EXISTING GELDED MOUNTED DEVICES (WAPs, DAS ANTENNAS, TELEMETRY MONITORING, ETC.) SHALL BE REMOVED FROM THE AREAS THAT ARE BEING DEMOLISHED. CONTRACTOR SHALL FIELD VERIFY THE DEVICES, REMOVE, CLEANED, STORED AND REINSTALLED INTO NEW CEILINGS AT LOCATION PREVIOUSLY DOCUMENTED. COORDINATE WITH G.E. SYSTEMS FOR REMOVAL, RELOCATION, AND REINSTALLATION OF THE DEVICES.

L. CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER UNLESS SPECIFIED OTHERWISE. CONTRACTOR SHALL COORDINATE WITH OWNER'S IT PERSONNEL FOR ALL OTHER EQUIPMENT.

1. EXISTING DUCT AND ASSOCIATED CABLING, CONDUIT, AND BACKBORES WITHIN THIS ROOMAREA SHALL BE DEMOLISHED TO POINT OF ORIGINATION. EXISTING CABLING REMAINING WITHIN THE CEILINGS THAT ARE NOT TO BE DEMOLISHED SHALL BE SUPPORTED WITH J-HOOKS INSTALLED PER THE FOLLOWING SPECIFICATIONS:

2. ANY EXISTING CABLE MOUNTED DEVICES (WAPS, DAS ANTENNAS, TELEMETRY MONITORING CENNAES) WITHIN THIS ROOMAREA, SHALL BE DOCUMENTED OF CURRENT LOCATION, REMOVED, CLEANED, STORED AND REINSTALLED INTO NEW CEILING AT LOCATION PREVIOUSLY DOCUMENTED AT THE TIME OF THE LAST CEILING CABLE LABELING. ANY DEVICES NOT TO BE REMOVED SHALL BE SUPPORTED WITH J-HOOKS INSTALLED PER DIVISION 7 SPECIFICATIONS.

3. EXISTING DEVICES WITHIN THIS ROOMAREA SHALL BE DETACHED FROM WALL AND PROTECTED IN PLACE FOR NEW RACEWAY. ALL EXISTING DEVICES SHALL BE PROTECTED IN PLACE AND LABELING SHALL BE APPLIED TO EXISTING OUTLET JACKS AND REINSTALLED ONTO WALLS AFTER NEW WALL COVERINGS HAVE BEEN INSTALLED. ALL OTHER LOW VOLTAGE DEVICES (NURSE CALL SECURITY, ETC.) SHALL BE DETACHED, PROTECTED IN PLACE AND REINSTALLED TO PREVIOUS LOCATION. IF ANY CHANGES TO ANY DEVICES ARE REQUIRED, THEY SHALL BE DONE PRIOR TO THE EXISTING DEVICES WITHIN THIS ROOMAREA SHALL BE PROTECTED IN PLACE AND REMAIN AS IS THROUGHOUT DURATION OF CONSTRUCTION. EXISTING CABLING THAT IS TO REMAIN THAT WILL BE USED THROUGHOUT NEW CONSTRUCTION SHALL BE PROTECTED IN PLACE AND SUPPORTED IN PLACE. FASTENED AROUND THE CABLING THAT IS EXISTING TO REMAIN. SLEEVE PENETRATION SHALL BE FIRE-STOPPED TO MANUFACTURER'S SPECIFICATIONS TO MEET OR EXCEED THE WALL RATING THAT IS BEING PENETRATED.

4. LOCATION OF WALL MOUNTED EQUIPMENT CABINET SERVING LEGACY ANALOG VIDEO SURVEILLANCE EQUIPMENT, CONTRACTOR SHALL CONFIRM EXISTING EQUIPMENT THAT IS NO LONGER IN USE AND REMOVE WALL MOUNTED CABINET. EXISTING MEDIA CONVERTER EQUIPMENT SHALL BE IN USE SHALL BE REMOVED FROM WALL MOUNTED CABINET. ALL SURVEILLANCE CABLES (CHATS)W/PORT #4 (0117-119) AT 2' BELOW FINISHED CEILING ON SAME WALL. CONTRACTOR SHALL PROVIDE FACILITY REPRESENTATIVE WITH REMOVED EQUIPMENT FOR DISPOSAL.

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STATE OF MISSOURI  
MANDY SUSAN WISSLER  
NUMBER  
PE-2617006123  
PROFESSIONAL ENGINEER  
04/18/2025  
WSP USA Buildings Inc. 2013001881

ED EXPANSION

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

AGENCY APPROVALS:  
AGENCY

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	U50040241.3707

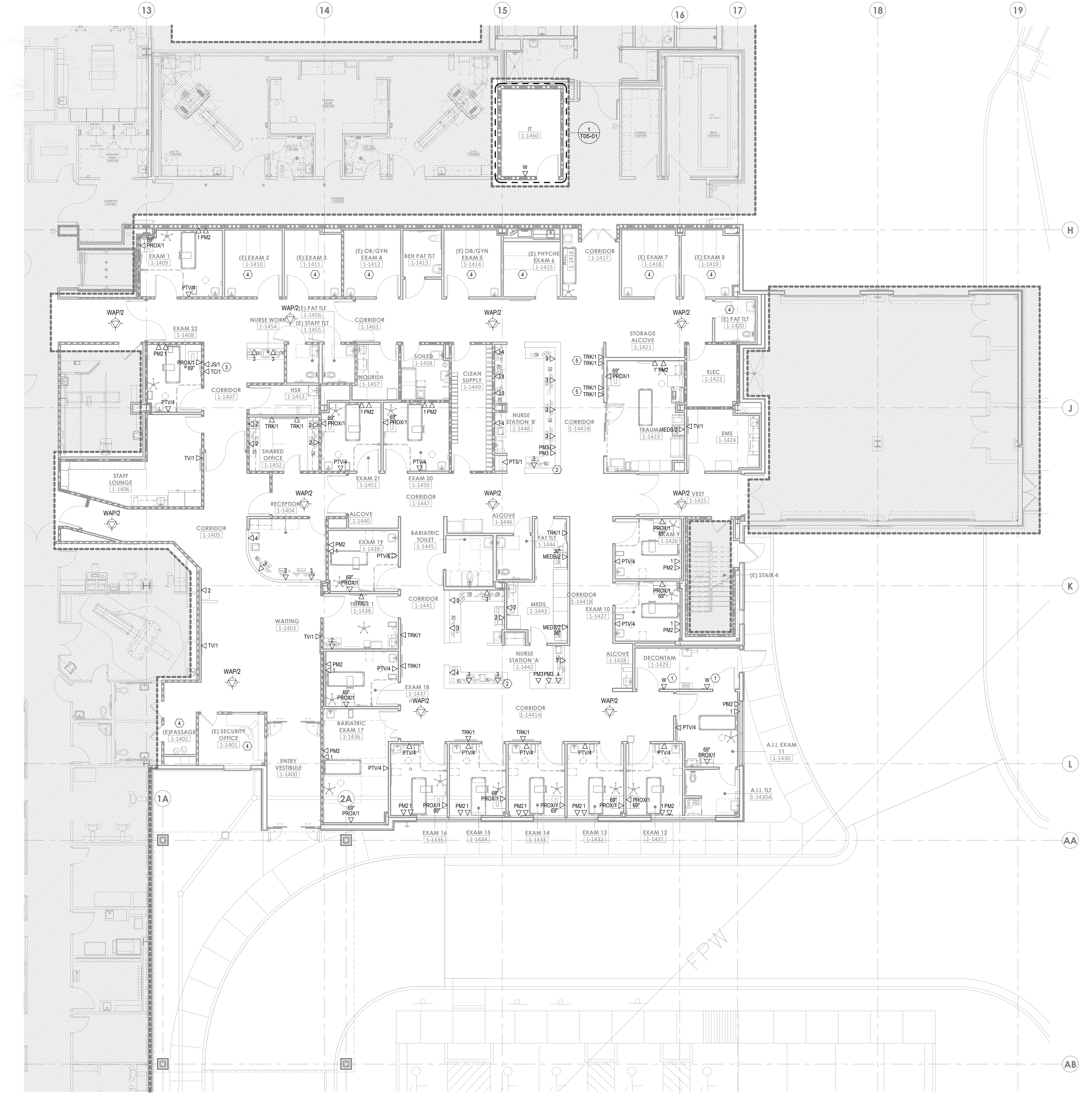
TD02-01



LEVEL 1 - KEYPLAN



1 FLOOR PLAN - LEVEL 01 - COMMUNICATIONS  
1/8" = 1'-0"

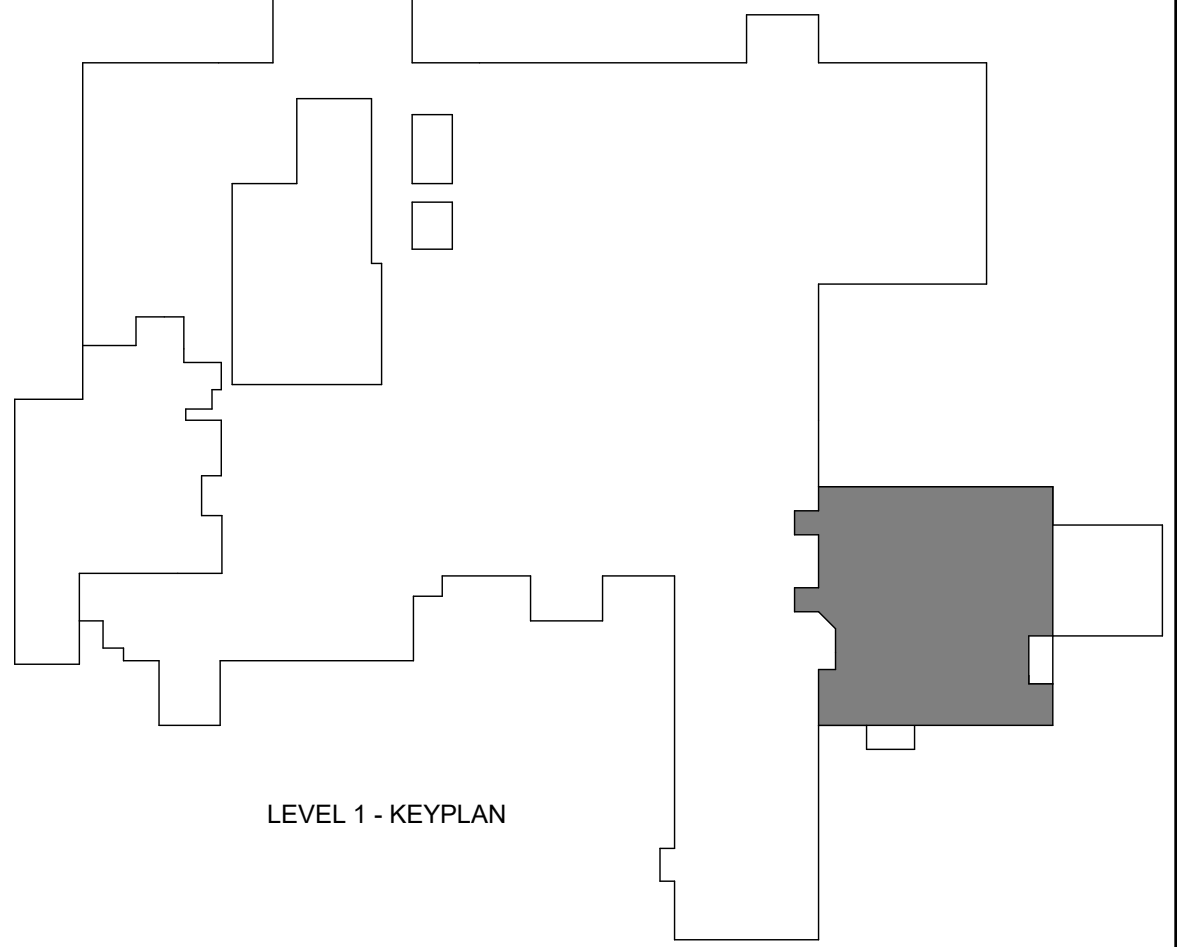


### GENERAL NOTES:

- REFER TO AND COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR EXACT LOCATIONS OF ALL DEVICES.
- REFER TO SHEET T02-00 FOR GENERAL NOTES AND SYMBOLS APPEARING ON THIS SHEET.
- ALL DEVICES WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL HAVE CONDUITS ROUTED TO ABOVE ACCESSIBLE CEILING SPACE IN CORRIDOR.
- COMMUNICATIONS CONDUIT PATHWAYS SHALL NOT CONTAIN ANY LENGTH GREATER THAN 100 FEET BETWEEN PULL POINTS. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90-DEGREE BENDS, OR EQUIVALENT, BETWEEN PULL POINTS. IF THERE IS REVERSE BEND IN THE SECTION, A PULL POINT SHALL BE INSTALLED. PULL BOXES SHALL NOT BE USED IN LIEU OF BENDS. THE INSIDE RADIUS OF ALL CONDUIT BENDS SHALL BE AT LEAST 10 TIMES THE INTERNAL DIAMETER. BENDS IN CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES THAT MAY HAVE A DETRIMENTAL EFFECT ON THE CABLE SHEATH DURING INSTALLATION. NO DASHY CHAINING OF BACK BOXES ALLOWED UNLESS OTHERWISE NOTED.
- ALL CABLING SHALL BE SUPPORTED ABOVE ACCESSIBLE CEILING SPACE USING LOW-VOLTAGE SUPPORTS SIZED AT 40% FULL BASED ON CURRENT NEEDS.
- FOR ALL WALL MOUNTED MONITORS (TRACKERS, INFO, SECURITY, PATIENT, ETC.), CONTRACTOR SHALL COORDINATE A/V BACKBOX LOCATION AND MOUNTING HEIGHT WITH VENDOR PROVIDED MOUNTING BRACKET PRIOR TO ROUGH IN.

### LEGEND NOTES

- PROVIDE WEATHERPROOF DUAL GANG BACKBOX WITH DUAL GANG DEVICE RING FOR FLUSH MOUNTED WEATHERPROOF (ALGO 8201 INTERCOM) WALL PHONE DEVICE. PROVIDE 1" CONDUIT PATHWAY FROM OUTLET BOX TO ACCESSIBLE CEILING SPACE WITHIN CORRIDOR. ALSO WALL PHONE DEVICE PROVIDED AND INSTALLED BY OWNER VENDOR.
- CONTRACTOR SHALL PROVIDE (1) 2" AND (1) 1" CONDUIT PATHWAY FROM WITHIN MILLWORK TO NEAREST ACCESSIBLE CEILING SPACE FOR CABLING PATHWAYS. CONDUIT SHALL BE HARD PIPE ONLY U.N.O. FLEX PIPING AND DASHY CHAINING OF OUTLET BOXES SHALL NOT BE ALLOWED PER HCA REQUIREMENT. EMPTY CONDUIT SHALL CONTAIN PULL STRING.
- PROVIDE TWO INDIVIDUAL NETWORK OUTLETS MOUNTED AT 48" AFF AT LOCATION SHOWN FOR OWNER PROVIDED KRONOS TIME CLOCK AND "JUMPSTART" DEVICE. COORDINATE WITH OWNER'S IT&S PERSONNEL FOR EXACT ROUGH IN REQUIREMENTS OF JUMPSTART DEVICE TO DETERMINE EXACT MOUNTING HEIGHT AND LOCATION OF POWER AND DATA.
- EXISTING CABLING WITHIN THIS ROOM SHALL REMAIN AS IS. CONTRACTOR SHALL REMOVE EXISTING FACEPLATES AND OUTLET JACKS AND REPLACE WITH NEW. CONTRACTOR SHALL RECERTIFY EXISTING CABLING PER DIVISION 27 TESTING SPECIFICATIONS.
- TRACKER MONITORS ARE STACKED. REFER TO ARCHITECTURAL PLANS FOR TRACKER ELEVATIONS. COORDINATE BACK BOX LOCATIONS PRIOR TO ROUGH-IN.



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IF THESE PLANS DO NOT BEAR THE SEAL OF A REGISTERED, 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 BY ARCHITECTURAL WORK. UNDER SEC. 105 OF THE COPYRIGHT ACT, 17 U.S.C., AS AMENDED DECEMBER 1990 AND KNOWN AS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990, THE PROTECTION HEREIN 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 COERCION 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
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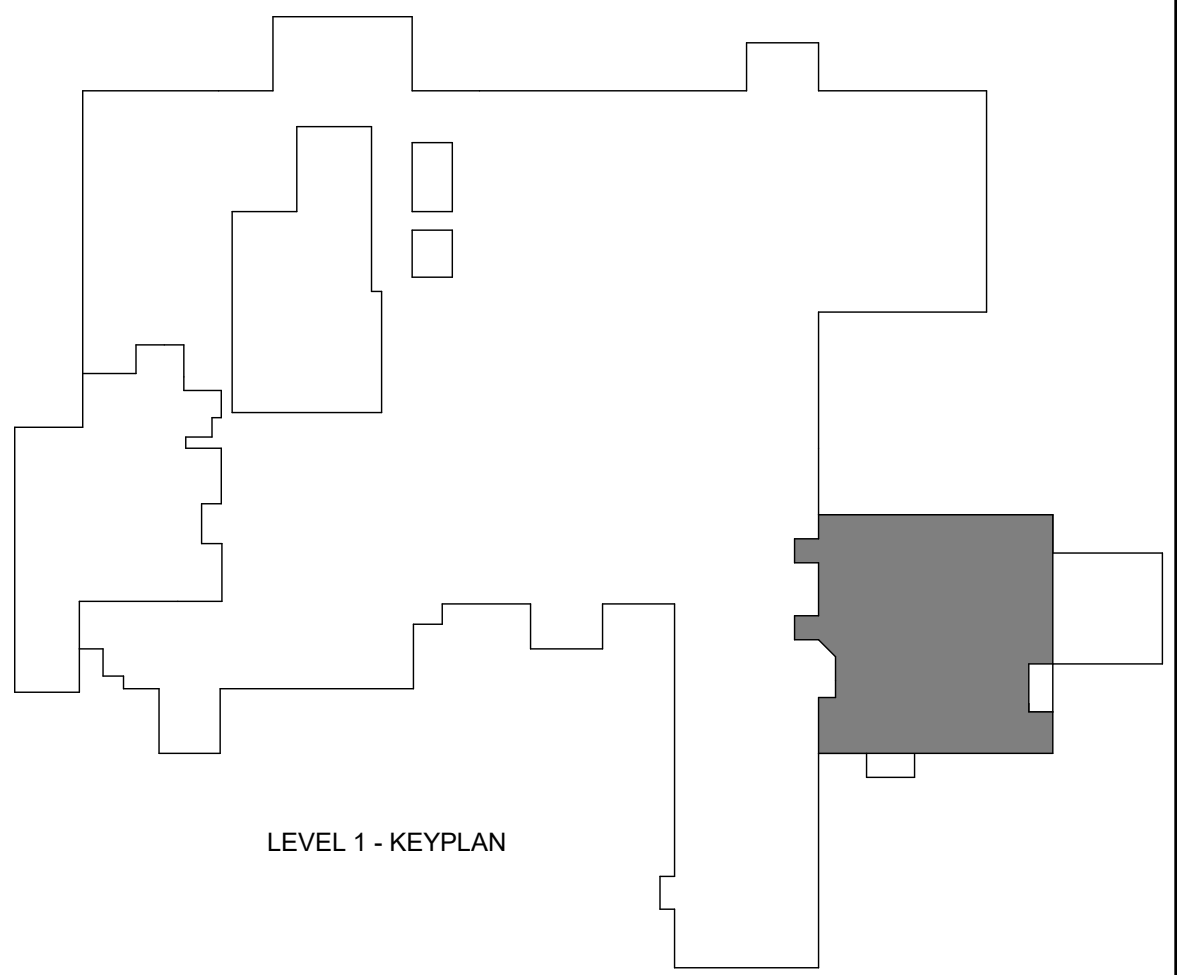
DATE: 04/18/25  
SCALE: 1/8" = 1'-0"  
DRAWN: WSP  
REVIEWED: WSP  
JOB NUMBER: U50040241.3707

FLOOR PLAN - LEVEL 01 -  
COMMUNICATIONS

T02-01



1 FLOOR PLAN - LEVEL 01 - LOW VOLTAGE  
1/8" = 1'-0"



## GENERAL NOTES:

- REFER TO AND COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR EXACT LOCATIONS OF ALL DEVICES.
- REFER TO SHEET 100-00 FOR GENERAL NOTES AND SYMBOLS APPEARING ON THIS SHEET.
- ALL DEVICES WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL HAVE CONDUITS ROUTED TO ABOVE ACCESSIBLE CEILING SPACE IN CORRIDOR.
- COMMUNICATIONS CONDUIT PATHWAYS SHALL NOT CONTAIN ANY LENGTH GREATER THAN 100 FEET BETWEEN PULL POINTS. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90-DEGREE BENDS, OR EQUIVALENT, BETWEEN PULL POINTS. IF THERE IS REVERSE BEND IN THE SECTION, A PULL POINT SHALL BE INSTALLED. PULL BOXES SHALL NOT BE USED IN LIEU OF BENDS. THE INSIDE RADIUS OF ALL CONDUIT BENDS SHALL BE AT LEAST 10 TIMES THE INTERNAL DIAMETER. BENDS IN CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES THAT MAY HAVE A DETRIMENTAL EFFECT ON THE CABLE SHEATH DURING INSTALLATION. NO DAISY-CHAINING OF BACK BOXES ALLOWED UNLESS OTHERWISE NOTED.
- ALL CABLING SHALL BE SUPPORTED ABOVE ACCESSIBLE CEILING SPACE USING LOW-VOLTAGE SUPPORTS SIZED AT 40% FULL BASED ON CURRENT NEEDS.
- ALL OVERHEAD PAGING SPEAKERS SHOWN SHALL BE DAISY-CHAINED USING PUBLIC ADDRESS CALL CABLE TYPE "S".
- CONTRACTOR SHALL SIZE PAGING AMPLIFIER TO PROVIDE A 40% GROWTH RATE AT TIME OF INSTALLATION. OVERHEAD PAGING EQUIPMENT WILL BE HOUSED IN ONE IDF ROOM PER FLOOR AS NOTED PER ENLARGED FLOOR PLANS.
- CONTRACTOR SHALL LABEL BOTH ENDS OF NURSE CALL CABLE TO CLEARLY IDENTIFY WHAT ROOM/SPACE & DEVICE EACH CABLE IS ASSOCIATED WITH.
- CONTRACTOR SHALL LEAVE A MINIMUM OF 18 INCHES OF SLACK AT ALL WALL MOUNTED NURSE CALL DEVICES, 15 FEET AT ALL CEILING MOUNTED NURSE CALL DEVICES, AND 25 FEET OF SLACK AT TE NURSE CALL HEADEND PANEL/NETWORK SWITCH LOCATION.

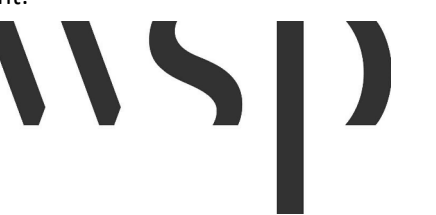
## LEGEND NOTES

- LINE SHOWN TO DESIGNATE WHICH ROOM(S) ARE TO BE FED FROM EACH ROOM CONTROL BOARD (RCB) DEVICE.



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04/18/2025  
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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

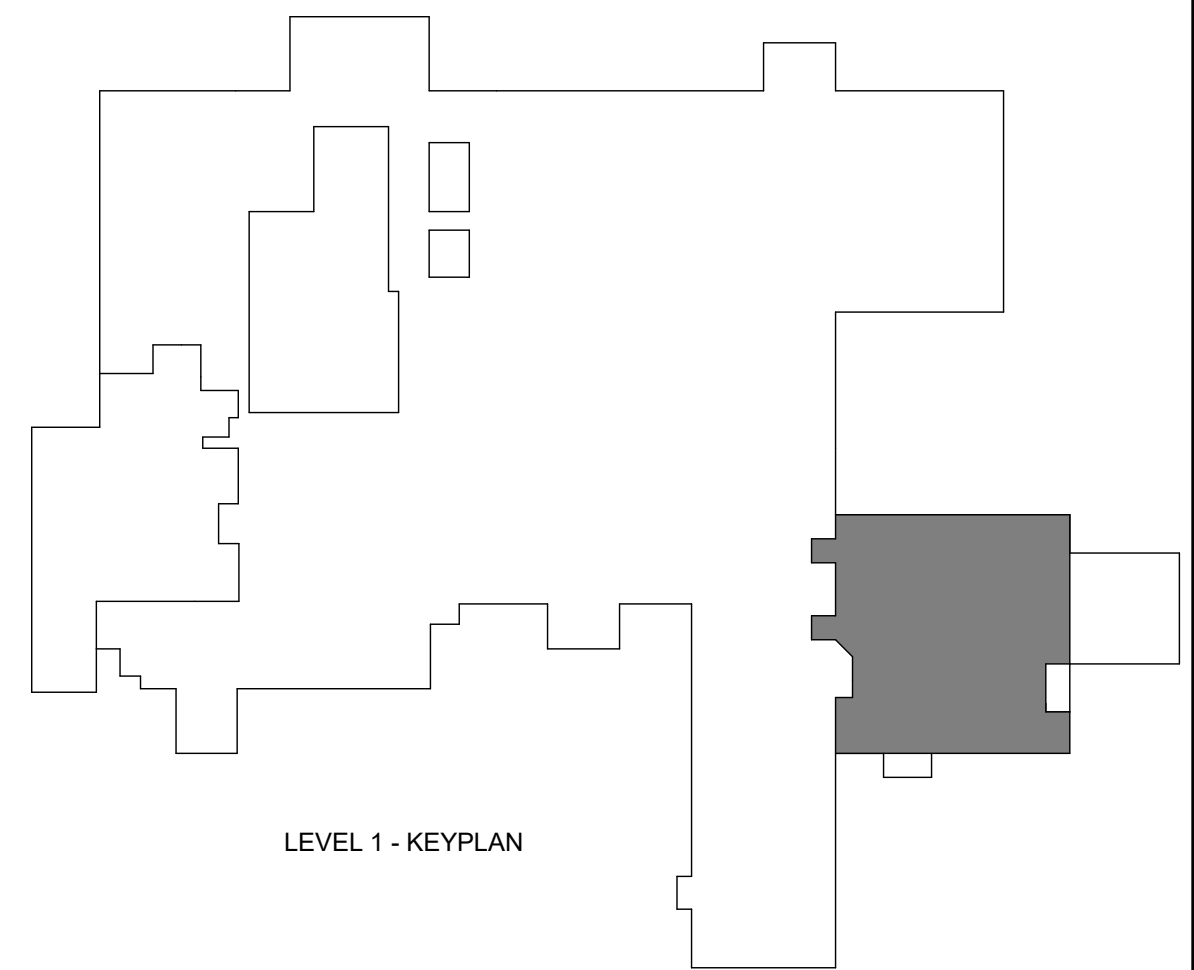
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DATE: 04/18/25  
SCALE: 1/8" = 1'-0"  
DRAWN: WSP  
REVIEWED: WSP  
JOB NUMBER: U50040241.3707

FLOOR PLAN - LEVEL 01 -  
LOW VOLTAGE

T03-01





- REFER TO SHEET 100 FOR SYMBOLS AND ADDITIONAL GENERAL NOTES PERTAINING TO THIS SHEET.
- COORDINATE AND COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR EXACT LOCATIONS OF ALL WALL MOUNTINGS.
- ALL DEVICES WITH AREAS OF HARD PAN CEILINGS SHALL BE PEPPED TO ABOVE ACCESSIBLE CEILING OR WALL SURFACES.
- ALL LOW VOLTAGE CABLES SHALL BE INSTALLED IN LOW VOLTAGE CABLING SUPPORT SYSTEM COMMUNICATIONS CONDUIT PATHWAYS SHALL NOT CONTAIN ANY LENGTH GREATER THAN 100 FEET. ALL CABLES SHALL BE SECURED TO WALLS OR CEILING. ALL CABLES SHALL CONTAIN MORE THAN TWO (2) DEGREE BENDS OR EQUIVALENT, BETWEEN PULL POINTS.
- WIRING TO DEVICES SHALL NOT EXCEED OR EXCEEDED MANUFACTURER SPECIFICATIONS.
- COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR EXACT LOCATIONS OF COORDINATION PURPOSES ONLY. EXACT LOCATION AND INSTALLATION METHODS FOR THESE DEVICES SHALL BE BY DIVISION 08.
- SECURITY AND CONTROL, DOOR HARDWARE, AND ELECTRICAL CONTRACTORS SHALL COORDINATE FOR INFRASTRUCTURE, INSTALLATION, AND OPERATIONAL VERIFICATION FOR ACCESS CONTROLLED DOOR SYSTEMS PRIOR TO ROUGH-IN.
- NOT ALL ACCESSORIES ARE SHOWN ON THIS SHEET. REFER TO DIVISION 08 DOOR HARDWARE SPECIFICATION FOR HARDWARE LISTING.
- SEPARATE POWER SUPPLIES MAY BE REQUIRED. REFER TO DIVISION 08 DOOR HARDWARE SPECIFICATION FOR HARDWARE LISTING.
- ALL DEVICES HAVING A CARD READER SHALL BE PROVIDED WITH DOOR CONTACT(S) AND A REQUEST-TO-EXIT SIGNALING DEVICE FOR DOOR STATUS/DOOR FORCE NOTICED IN PROGRESS.
- DOOR STATUS SWITCH LOCATION MAY REQUIRE ADJUSTMENT DUE TO DOOR HARDWARE INTERFERENCE. DOOR STATUS SWITCH SHALL BE INSTALLED AS CLOSE TO DOOR STRIKE SIDE OF FRAME AS POSSIBLE.
- SECURITY AND DOOR HARDWARE CONTRACTORS SHALL PROVIDE PROPER DELAY/ SYNCHRONIZATION BETWEEN LOCKS, LATCHES, MAGNETIC LOCKS, AND AUTO OPERATORS AS REQUIRED FOR PROPER FUNCTIONING OF THE SYSTEM. SEE NOTES.
- ACCESS CONTROL JUNCTION BOX SHALL BE INSTALLED ON SECURE SIDE OF DOOR, IN AN ACCESSIBLE LOCATION, BOX SHALL BE MINIMUM 4" DEEP BOX WITH BLANK COVER PLATE.
- DOOR FORCE NOTICED IN PROGRESS SIGNALING DEVICE SHALL BE PROVIDED WITH A 15 CALIBRE FIRE PROOF RELAY SHALL BE PROVIDED BY FIRE ALARM CONTRACTOR FOR DOOR HARDWARE AND POWER SUPPLIES REQUIRING A FIRE ALARM INTERFACE.
- CEILING MOUNTED VIDEO DEVICES SHALL BE PROVIDED WITH A 15 CALIBRE CEILING MOUNT ABOVE CEILING AT CAMERA END.
- VIDEO SURVEILLANCE CAMERA SHOWN IN COMM ROOM FOR COORDINATION PURPOSES ONLY. COORDINATE WITH VIDEO CONTRACTOR FOR EXACT LOCATION WITHIN THE ROOM.
- ADDITIONAL CABLING AND TERMINATION NOT REQUIRED.

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FACILITY NUMBER:  
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T04-01





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REV #	DESCRIPTION	DATE

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ENLARGED FLOOR PLAN  
TECHNOLOGY

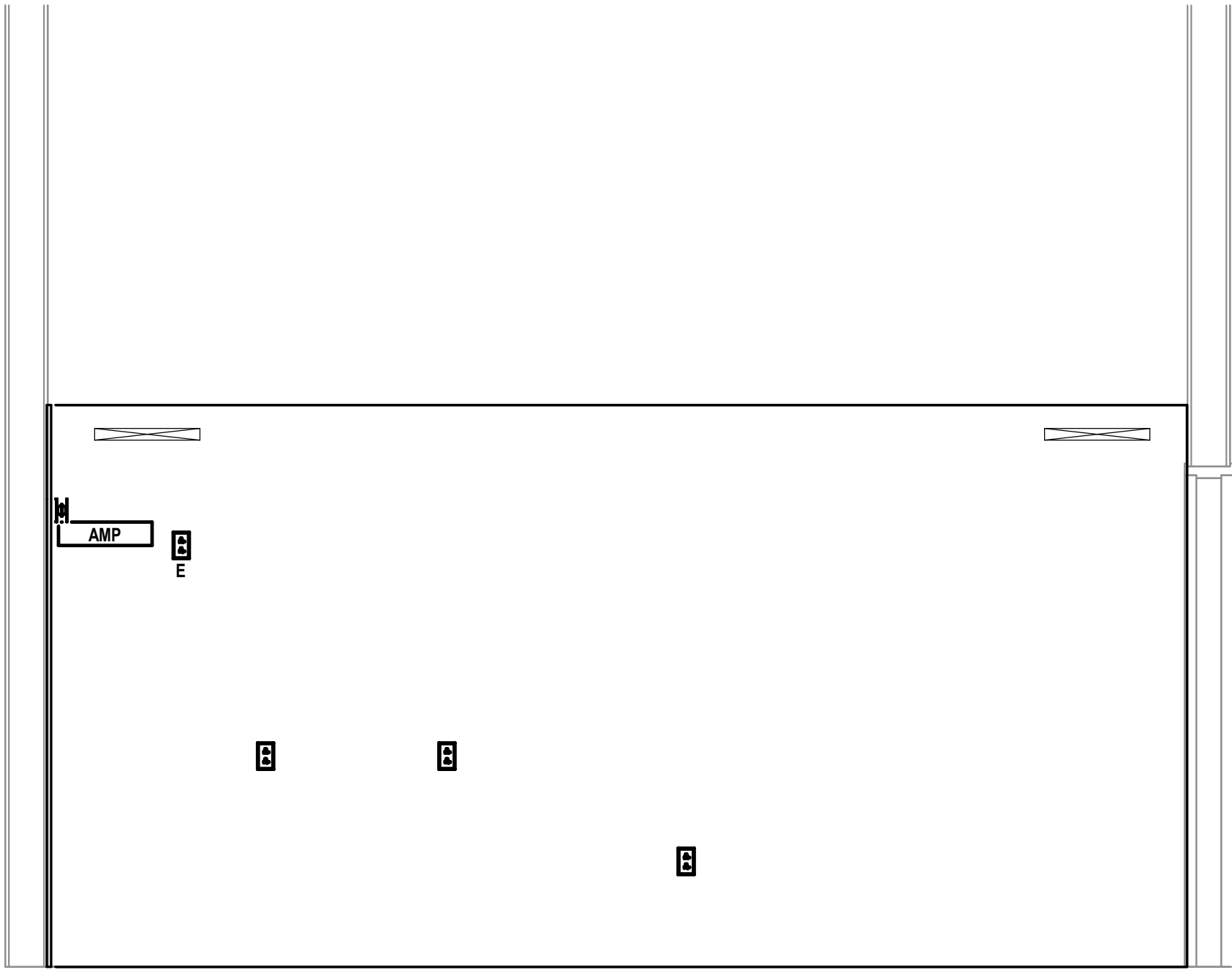
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## GENERAL NOTES:

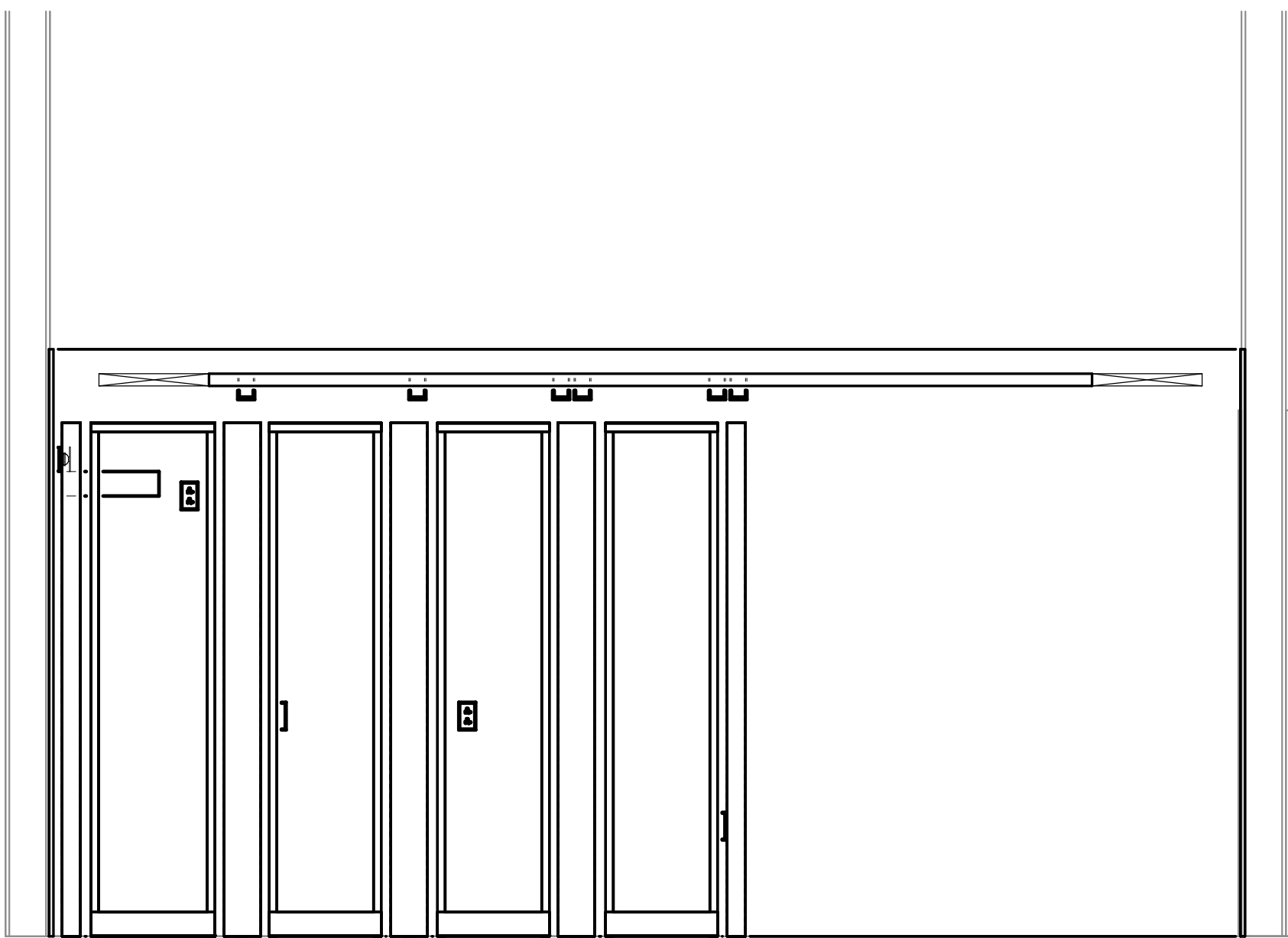
- ALL METAL SURFACES WITHIN IDF ROOMS SHALL BE BONDED TO GROUND BUS BAR AS PER J-STD-807 STANDARDS.
- ELECTRICAL, FIRE, SAFETY AND MECHANICAL DEVICES ARE SHOWN FOR LOCATING PURPOSES ONLY. REFER TO ELECTRICAL AND MECHANICAL SHEETS FOR ADDITIONAL DETAILS.
- NO SPRINKLER HEADS OR PIPING SHALL BE INSTALLED DIRECTLY ABOVE ANY ELECTRONIC EQUIPMENT RACKS IN THE IDF/COMM ROOMS. GAGES SHALL BE INSTALLED ON SPRINKLER HEADS TO PREVENT ACCIDENTAL DISCHARGE. NO MAIN SPRINKLER PIPING SHALL ENTER THE IDF/COMM SPACE. ONLY BRANCHES OF THE PIPING SYSTEM SPECIFICALLY SERVICING THE IDF ROOMS SHALL BE PERMITTED TO PENETRATE IDF/COMM ROOMS.
- PENETRATION INTO CORRIDORS SHALL BE POSITIONED 6" ABOVE THE ASSOCIATED CORRIDOR CABLE TRAY.
- SYSTEMS THAT ARE NOT DIRECTLY RELATED TO THE SUPPORTING IDF/COMM ROOMS ARE NOT PERMITTED TO PASS THROUGH IDF/COMM ROOMS.
- AIR TEMPERATURE WITHIN ROOM SHALL BE MAINTAINED BETWEEN 65 AND 76 DEGREES FAHRENHEIT, MEASURED AT THE THERMOSTAT LOCATION.
- HUMIDITY MUST REMAIN WITHIN RANGE OF 50% TO 80%.
- SYSTEM VENDOR SHALL COORDINATE EXACT LOCATION OF EQUIPMENT WITHIN IDF/COMM ROOMS WITH OWNER'S REPRESENTATIVE(S) PRIOR TO INSTALLATION. NO WORK SHALL PROCEED PRIOR TO OWNER APPROVAL.
- DATA DEVICE SCHEDULE SHOWN FOR OWNER USE ONLY. CONTRACTOR SHALL PERFORM THEIR OWN CALCULATIONS FOR BID.

## LEGEND NOTES:

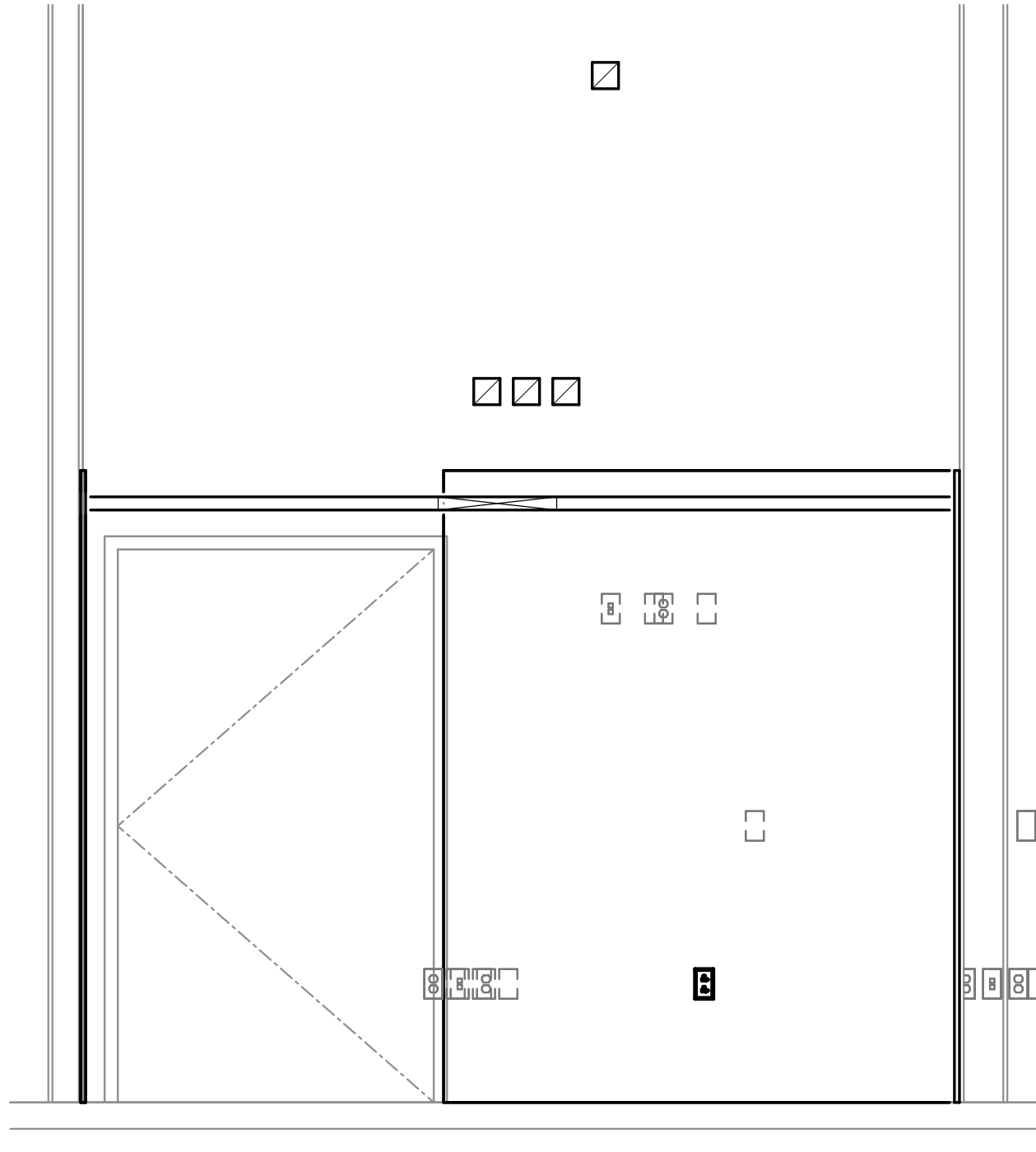
- PROVIDE 1/2" A/C GRADE FIRE RETARDANT PLYWOOD WITH TWO COATS OF PAINT (MATCH WALL COLOR) FROM FINISHED FLOOR TO 8' AFF ON THIS ENTIRE WALL AS SHOWN. MANUFACTURER FIRE RATING STAMP SHALL BE LEFT UNCOVERED ON "A" SIDE FOR INSPECTION ON EACH SHEET OF PLYWOOD WITHIN IDF/COMM ROOM.
- ELECTRICAL OUTLET ON NORMAL POWER FOR CONVENIENCE RECEPTACLE. OUTLET SHOWN FOR COORDINATION PURPOSES ONLY. OUTLET SHALL BE MOUNTED 18" AFF.
- LOCATION OF TELECOMMUNICATIONS GROUNDING BUS BAR (TGB). ELECTRICAL CONTRACTOR SHALL PROVIDE A TELECOMMUNICATIONS GROUND BACKBONE FROM BUILDING GROUND. ALL BONDING WITHIN THIS ROOM SHALL BE DEDICATED HOME-RUN CONNECTIONS FROM INDIVIDUAL EQUIPMENT HARDWARE TO THE TGB. NO DASHY-CHANNING OF GROUND SHALL BE PERMITTED OTHER THAN BASKET TRAY. BUS BAR SHALL BE MOUNTED AT 78" AFF.
- LOCATION OF OVERHEAD PAGING AMPLIFIER SYSTEM EQUIPMENT. ELECTRICAL CONTRACTOR SHALL PROVIDE DUPLEX POWER OUTLET ON EMERGENCY POWER MOUNTED AT 72" AFF.
- LOCATION OF CATV TELEVISION JUNCTION EQUIPMENT. CONTRACTOR SHALL ACCOUNT FOR APPROXIMATELY 4'x4' OF WALL SPACE FOR CABLE TERMINATIONS AND EQUIPMENT TO BE PLACED IN THIS LOCATION BY TELEVISION SYSTEM VENDOR. ELECTRICAL CONTRACTOR SHALL PROVIDE (2) DUPLEX POWER OUTLETS, ON NORMAL POWER, MOUNTED AT 36" AFF AT THIS LOCATION. COORDINATE WITH TELEVISION SYSTEM VENDOR FOR ADDITIONAL REQUIREMENTS WITHIN THIS AREA.
- LOCATION OF SECURITY ACCESS CONTROL PANEL(S). ELECTRICAL CONTRACTOR SHALL PROVIDE A MINIMUM OF (1) DUPLEX RECEPTACLE, ON EMERGENCY POWER, FOR EACH PANEL. COORDINATE EXACT PLACEMENT OF RECEPTACLES WITH THE DIVISION 28 ACCESS CONTROL INSTALLATION CONTRACTOR PRIOR TO ROUGH IN. DIVISION 27 CONTRACTOR SHALL COORDINATE NETWORK CONNECTION REQUIREMENTS WITH THE ACCESS CONTROL INSTALLATION CONTRACTOR.
- AREA DESIGNATED FOR C/D DISTRIBUTED ANTENNA SYSTEM (DAS) EQUIPMENT. ELECTRICAL CONTRACTOR SHALL PROVIDE DUPLEX POWER OUTLET ON EMERGENCY POWER MOUNTED AT 18" AFF.
- LIGHT SWITCH SHOWN FOR COORDINATION PURPOSES ONLY.
- FIRE ALARM STROBE SHOWN FOR COORDINATION PURPOSES ONLY.
- THERMOSTAT DEVICE SHOWN FOR COORDINATION PURPOSES ONLY. DEVICE SHALL BE MOUNTED ON "COLD" SIDE OF EQUIPMENT CABINET TRACKS AS SHOWN.
- PROVIDE 18"X2" WIRE MESH BASKET TRAY AS SHOWN. MOUNT BASKET TRAY AT 7' 6" ABOVE FINISHED FLOOR AND CONNECT BASKET TRAY TO EQUIPMENT RACKS UTILIZING MANUFACTURER'S ELEVATION KITS. CONTRACTOR SHALL UTILIZE MANUFACTURER'S "WATERFALL" DEVICES FOR TRANSITIONING OF CABLES FROM BASKET TRAY TO WITHIN VERTICAL WIRE MANAGERS/CABINETS.
- ELECTRICAL OUTLETS, ON EMERGENCY POWER, MOUNTED TO SIDE OF BASKET TRAY. CENTER OUTLETS OVER VERTICAL WIRE MANAGEMENT BETWEEN EQUIPMENT RACKS AS SHOWN.
- CONTRACTOR SHALL PROVIDE 4" PRE-MANUFACTURED FIRE SLEEVE DEVICES THROUGH RATED WALL FOR CABLEING PATHWAY.
- CONTRACTOR SHALL PROVIDE 4" CORES/SLEEVES THROUGH FLOOR FOR BACKBONE CABLEING PATHWAY. SLEEVES SHALL BE INSTALLED A MINIMUM OF 4" ABOVE AND BELOW DECK, SEALED TO MAINTAIN RATING OF FLOOR BEING PENETRATED AND FITTED WITH PLASTIC BUSHINGS. UNUSED SLEEVES SHALL BE SEALED FOR FUTURE USE.
- CONTRACTOR SHALL PROVIDE 24" WIDE LADDER RUNWAY (CHATSWORTH PART# 10250-724), MOUNTED VERTICALLY ON WALL FOR BACKBONE CABLEING SUPPORT. RUNWAY SHALL EXTEND FROM JUST ABOVE FLOOR SLEEVES/CONDUITS TO JUST BELOW HORIZONTAL BASKET TRAY. LADDER RUNWAY SHALL BE BONDED TO TGB WITHIN ROOM.



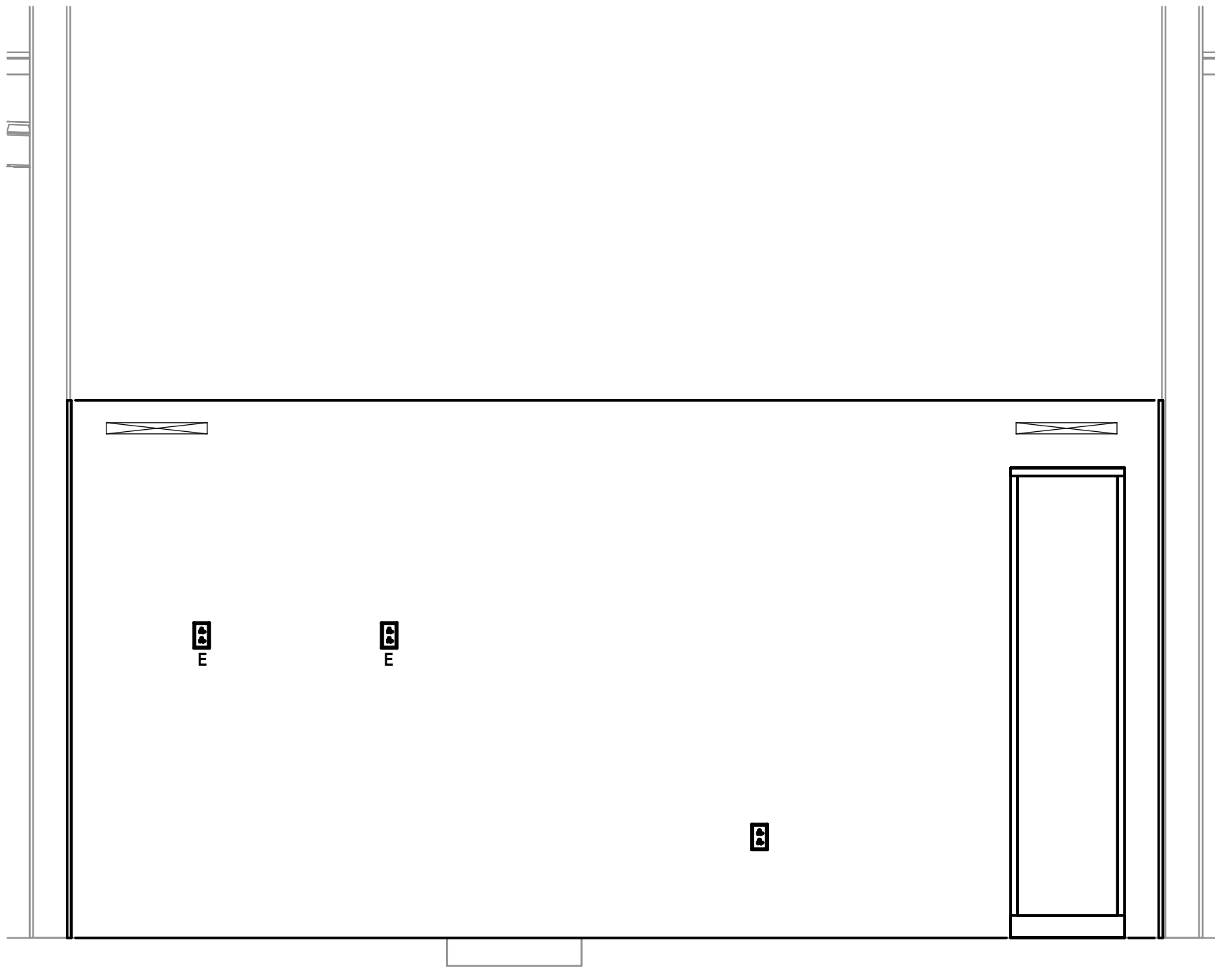
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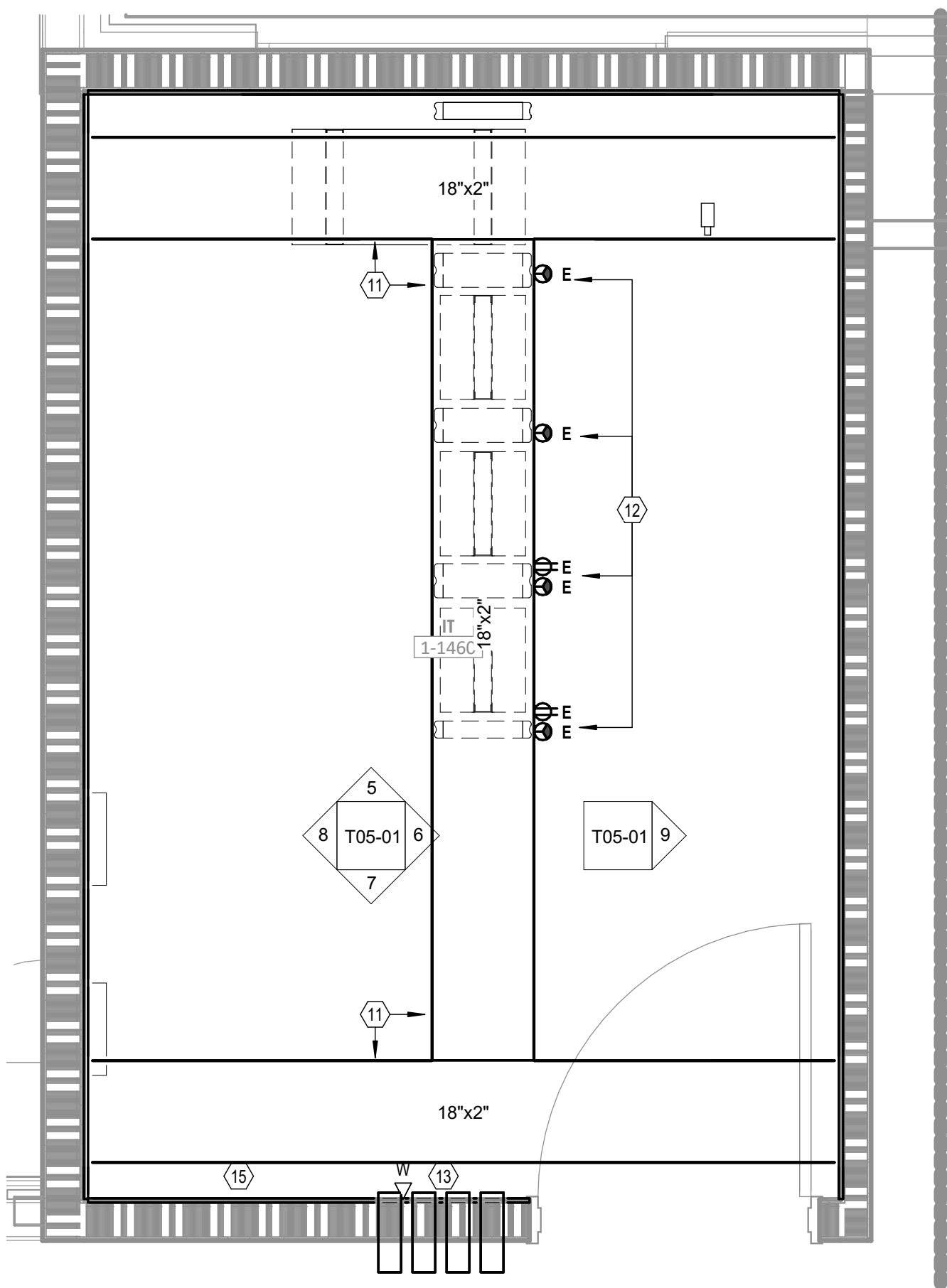
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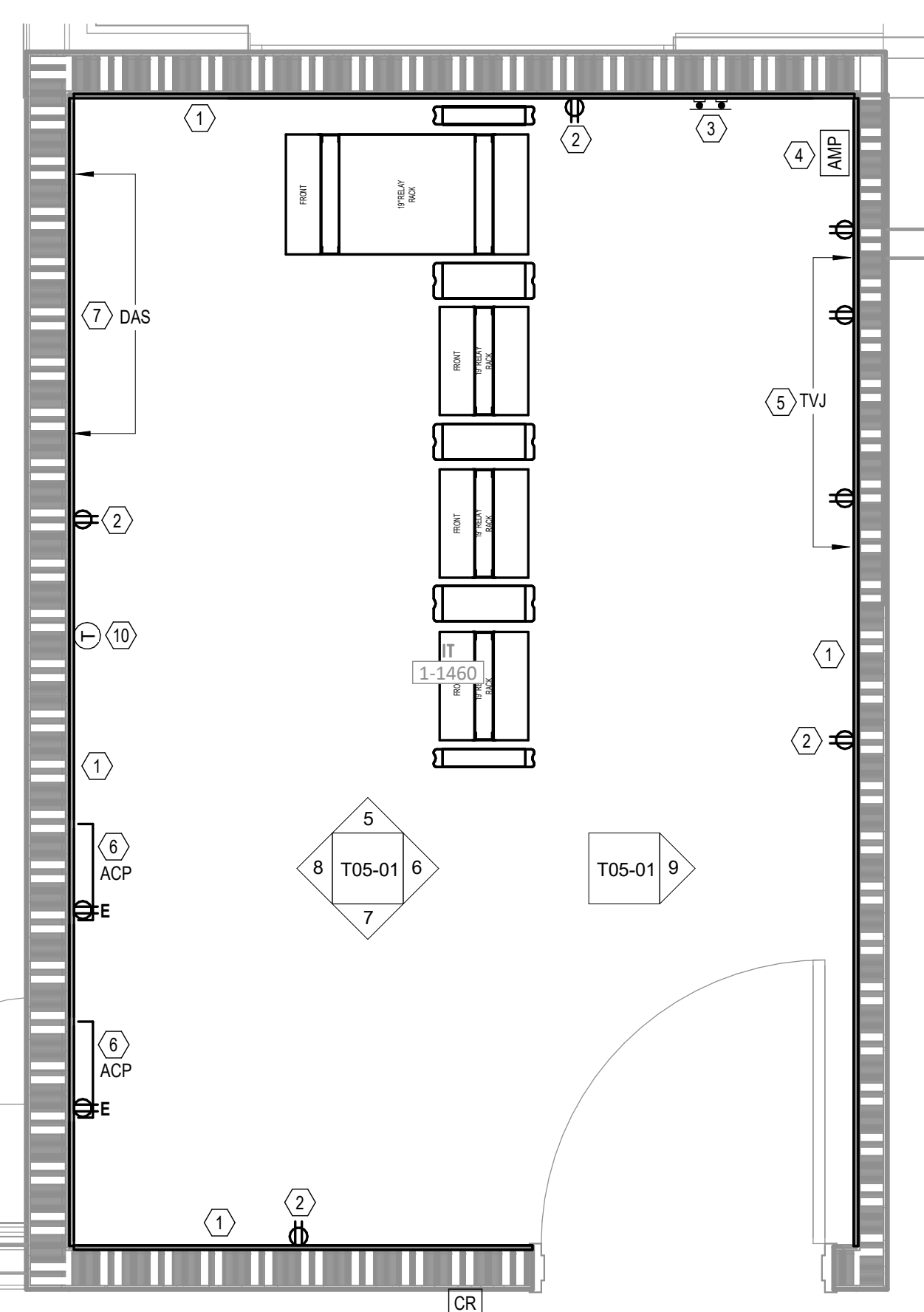
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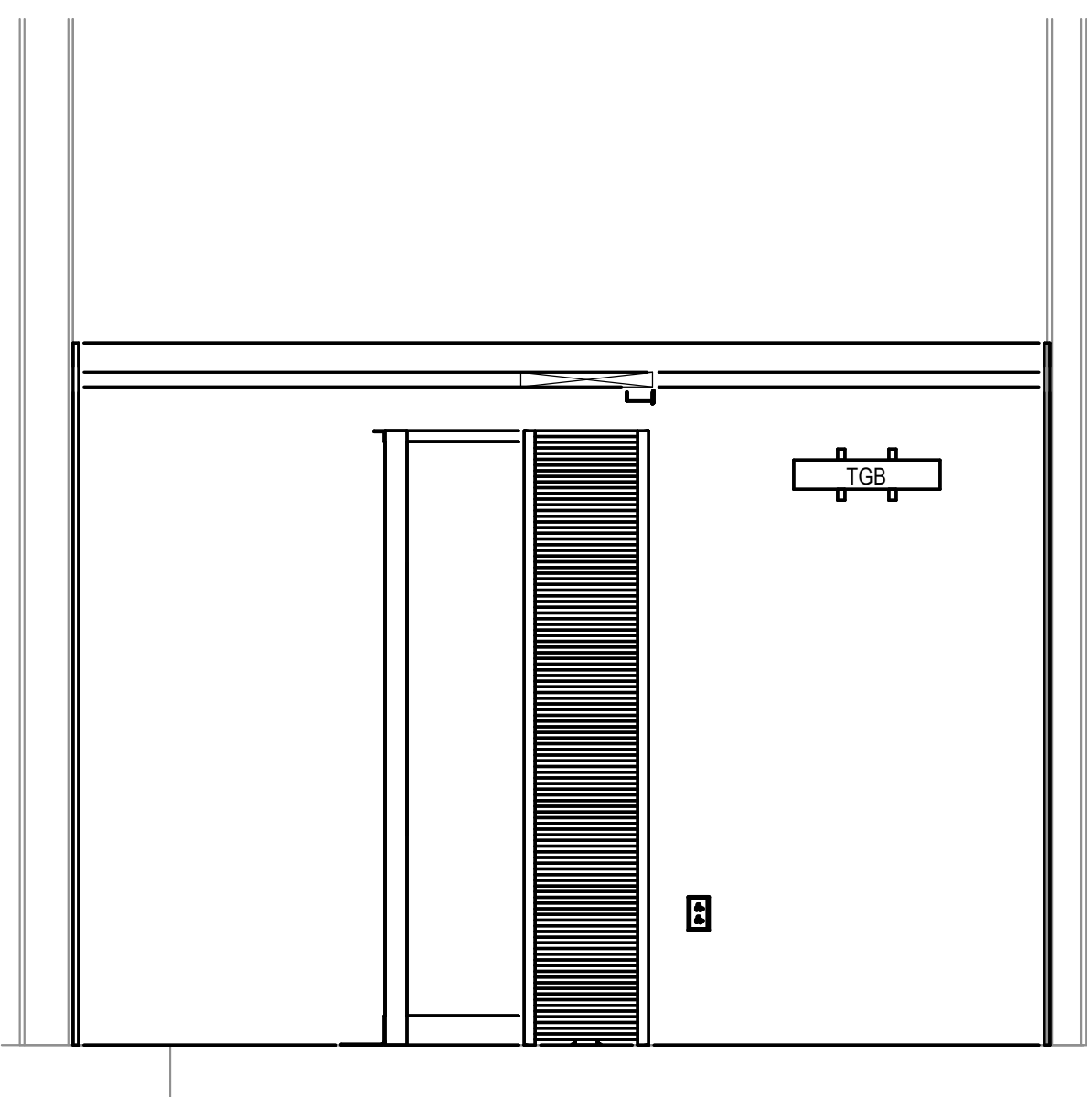
8 IDF 1-1460 ELEVATION 4  
1/2" = 1'-0"



3 ENLARGED IT 1-1460 - UPPER  
1/2" = 1'-0"



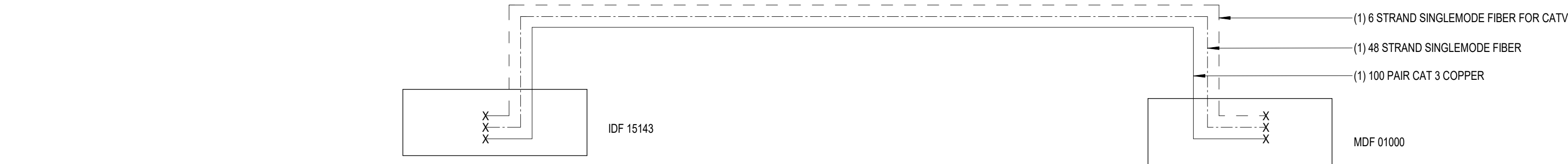
1 ENLARGED IT 1-1460 - LOWER  
1/2" = 1'-0"



5 IDF 1-1460 ELEVATION 1  
1/2" = 1'-0"

4/22/2025 1:45:51 PM Autodesk Docu/ / 64062-24 - HCA - Lee's Summit Medical Center (LSMC) - r723/MEP - LSMC ED Expansion: R23.rvt 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.





BASEMENT

1 TECHNOLOGY SYSTEMS BACKBONE RISER  
NTS



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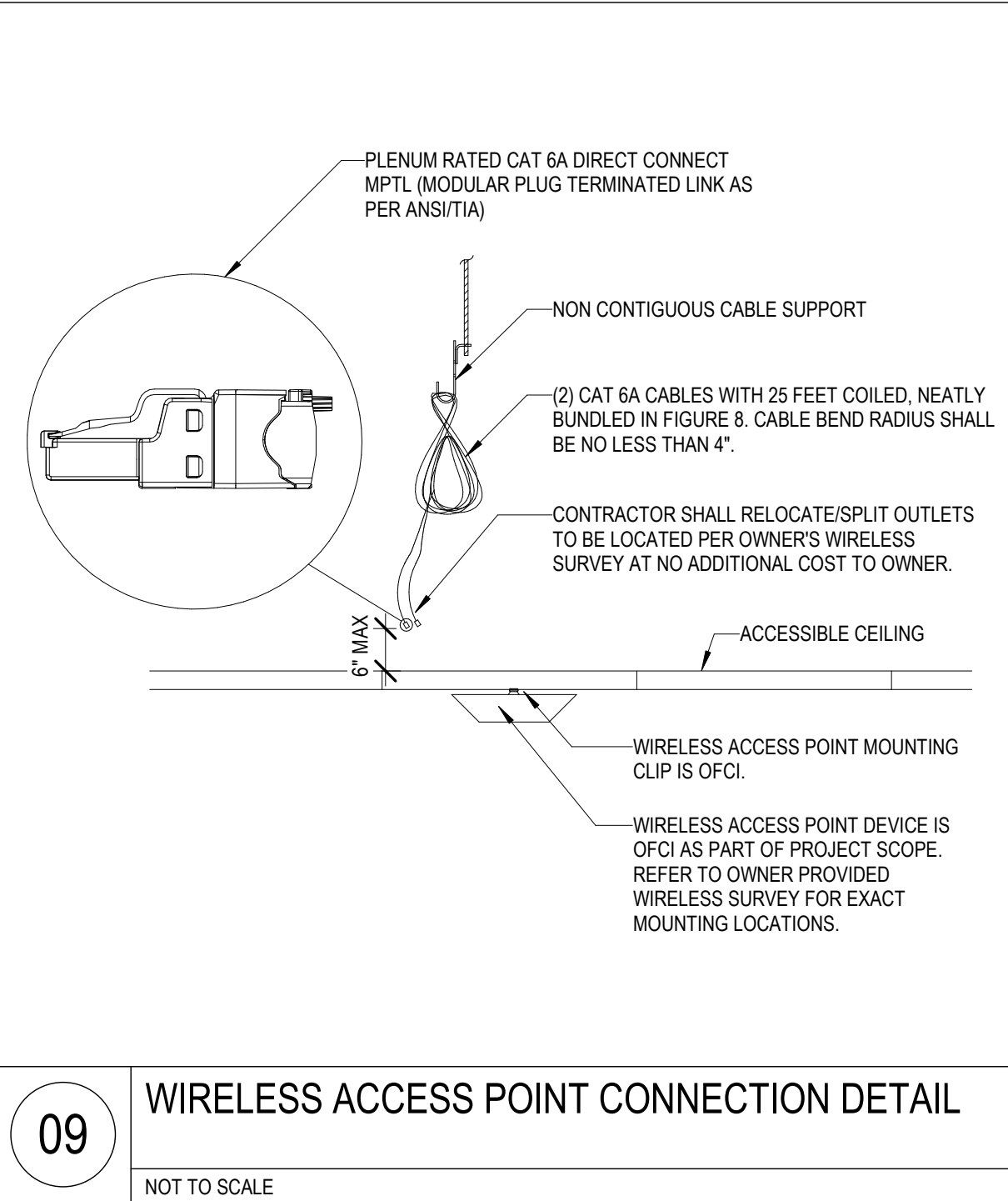
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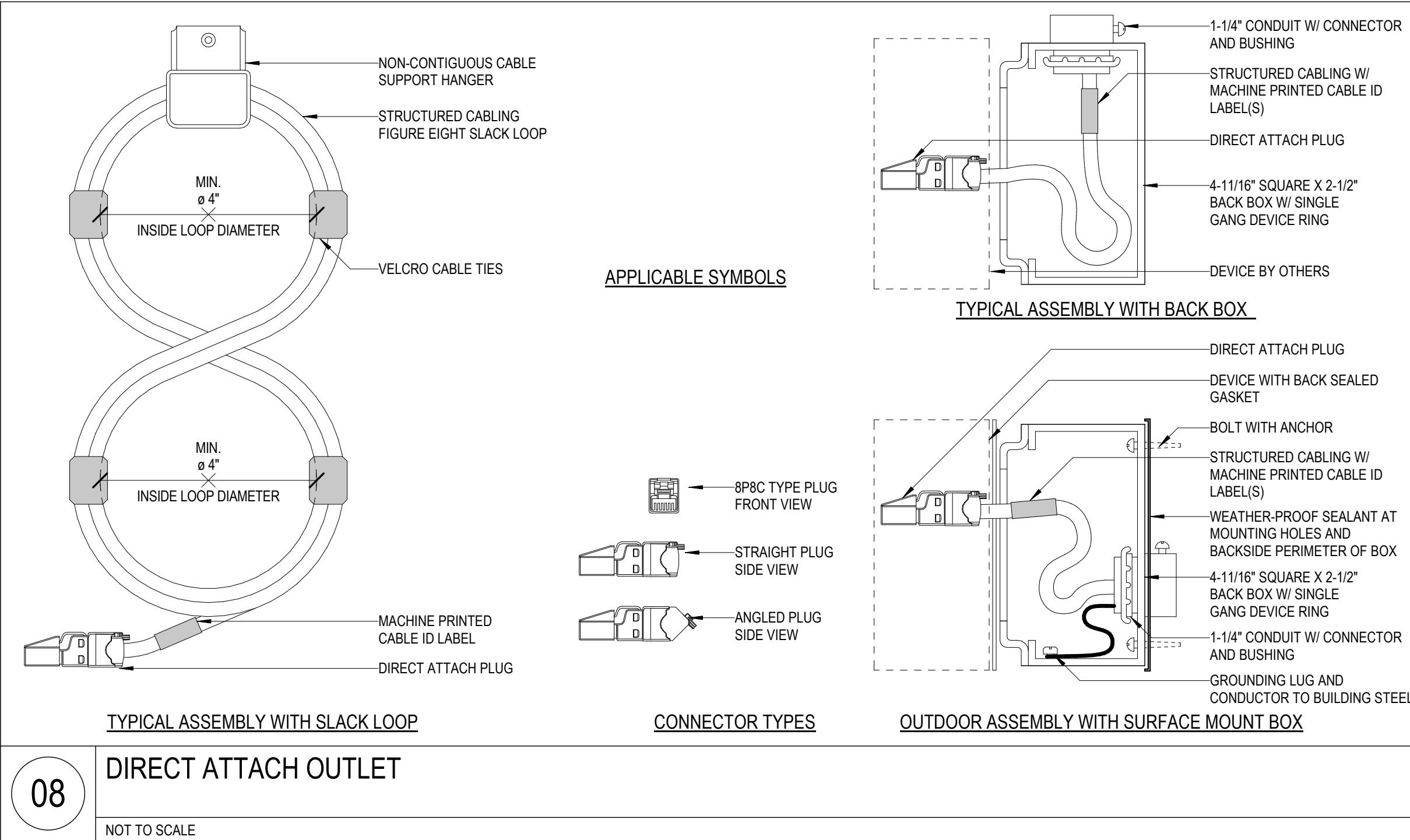
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TECHNOLOGY

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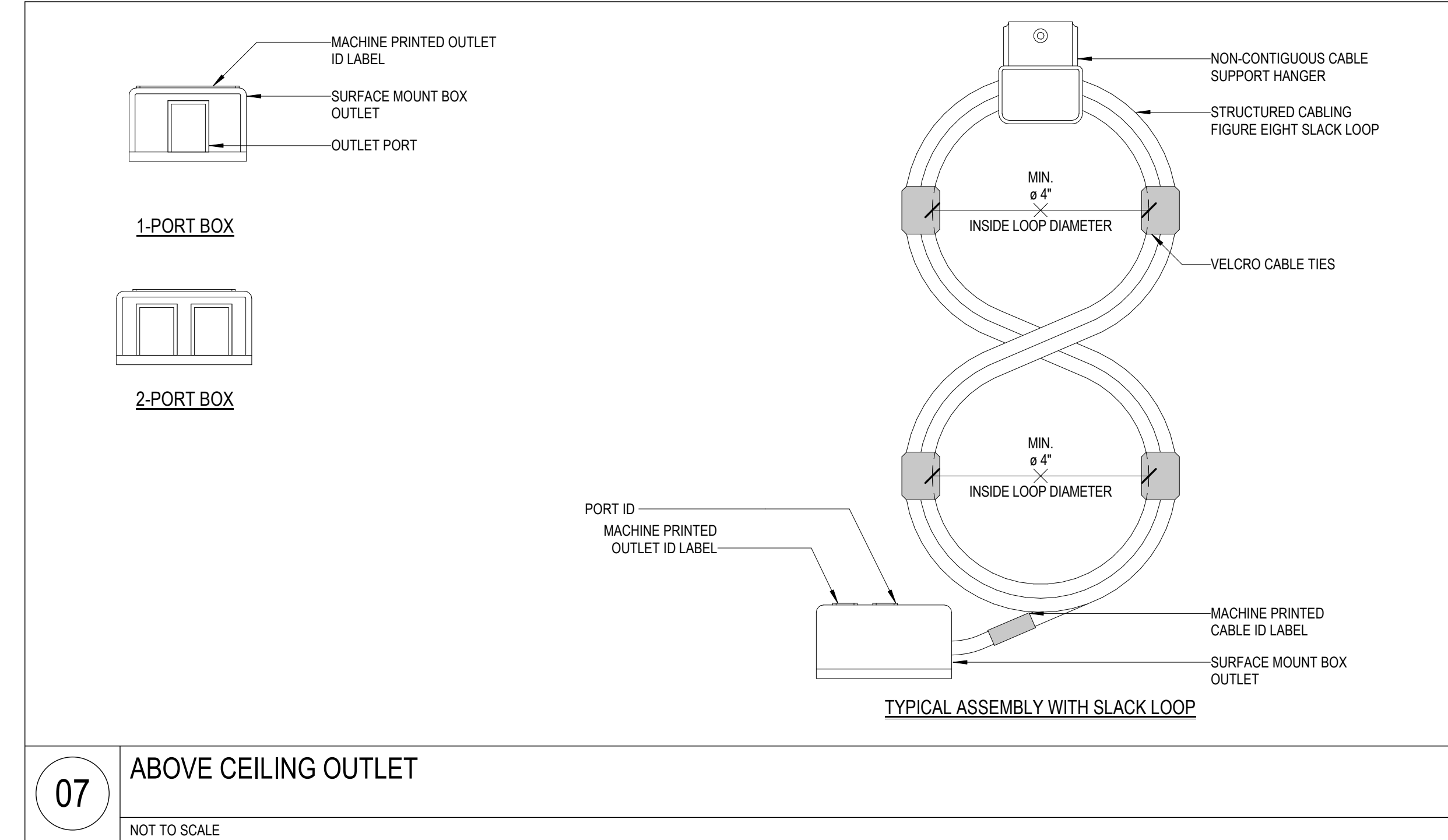




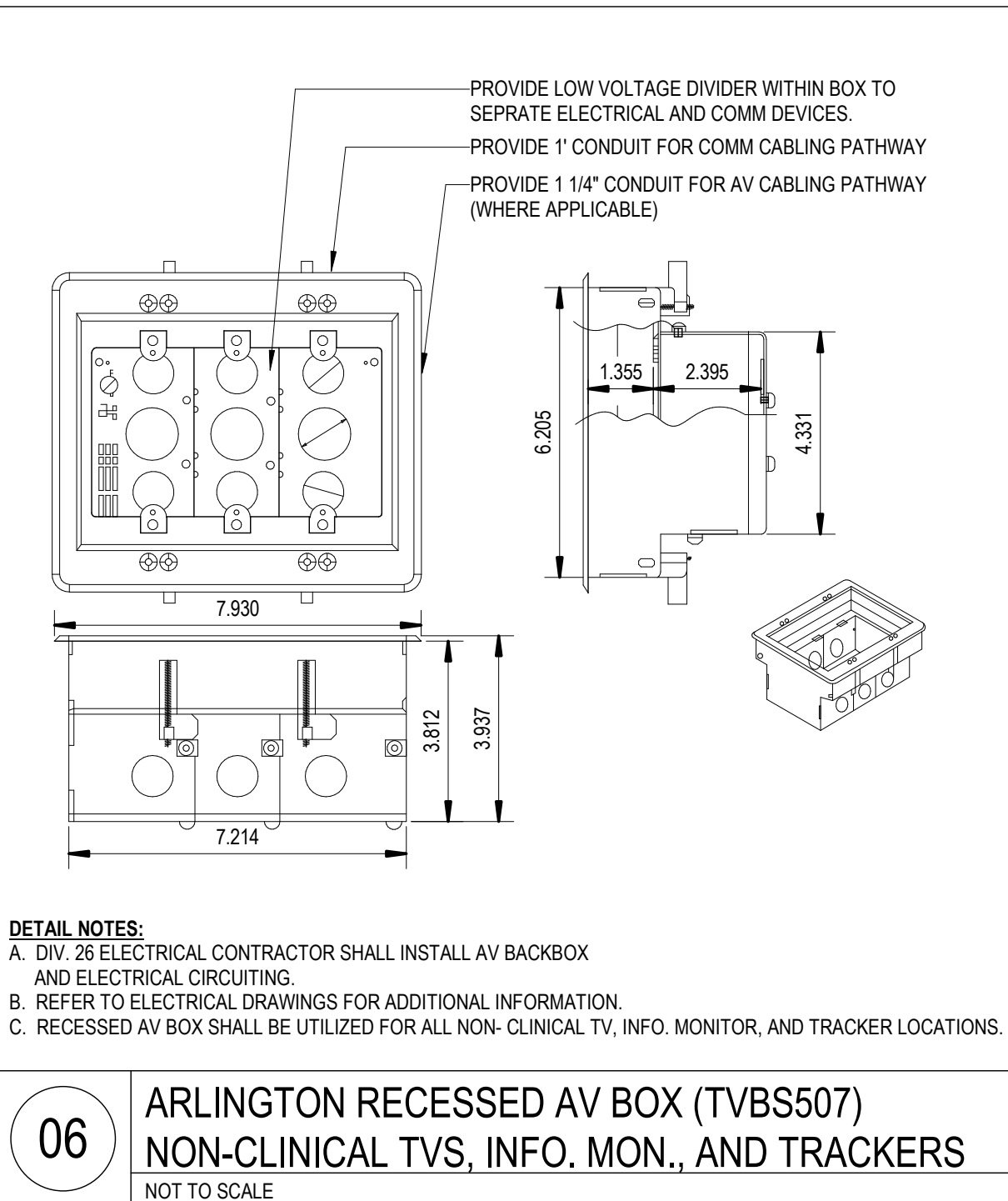
09 WIRELESS ACCESS POINT CONNECTION DETAIL  
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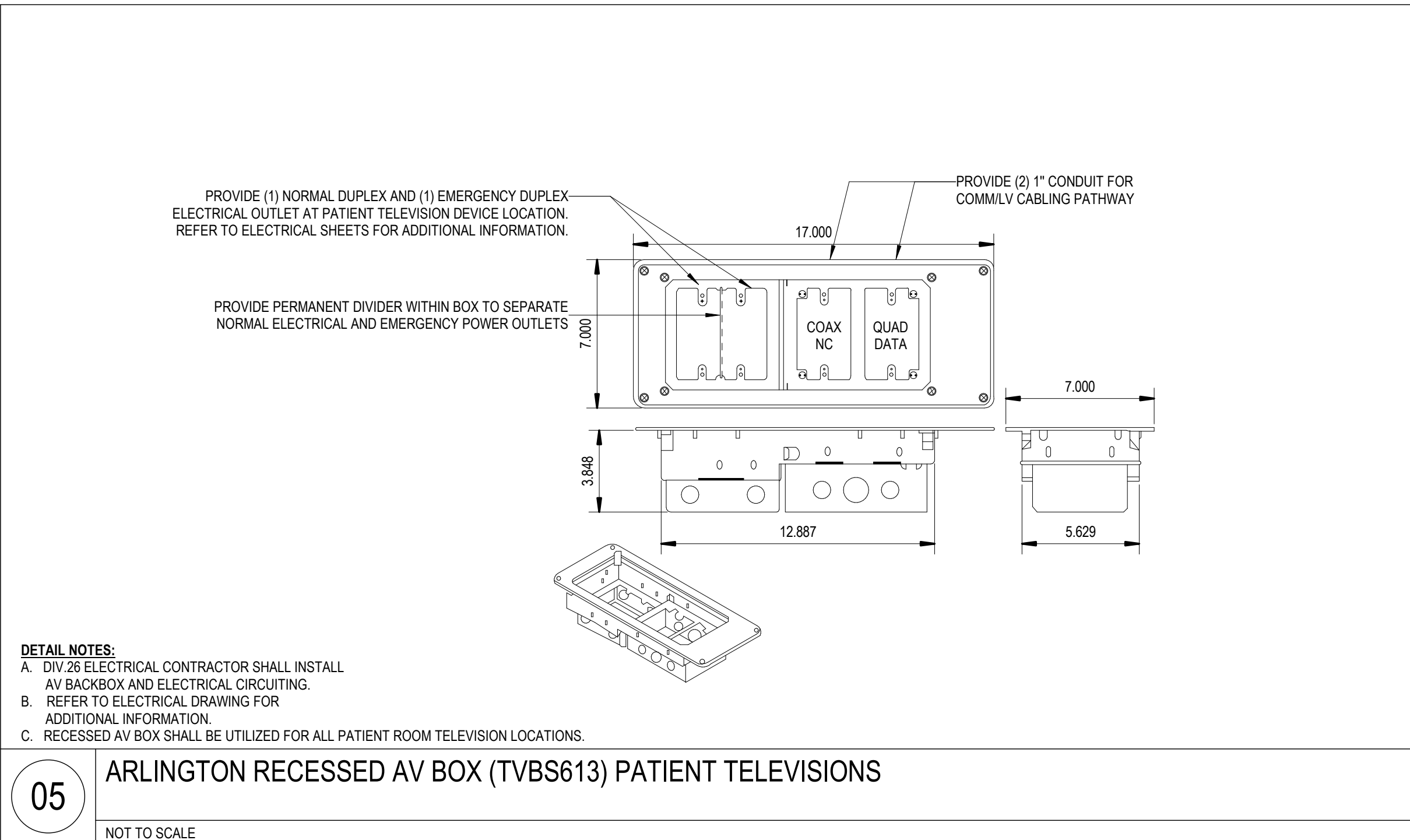
08 DIRECT ATTACH OUTLET  
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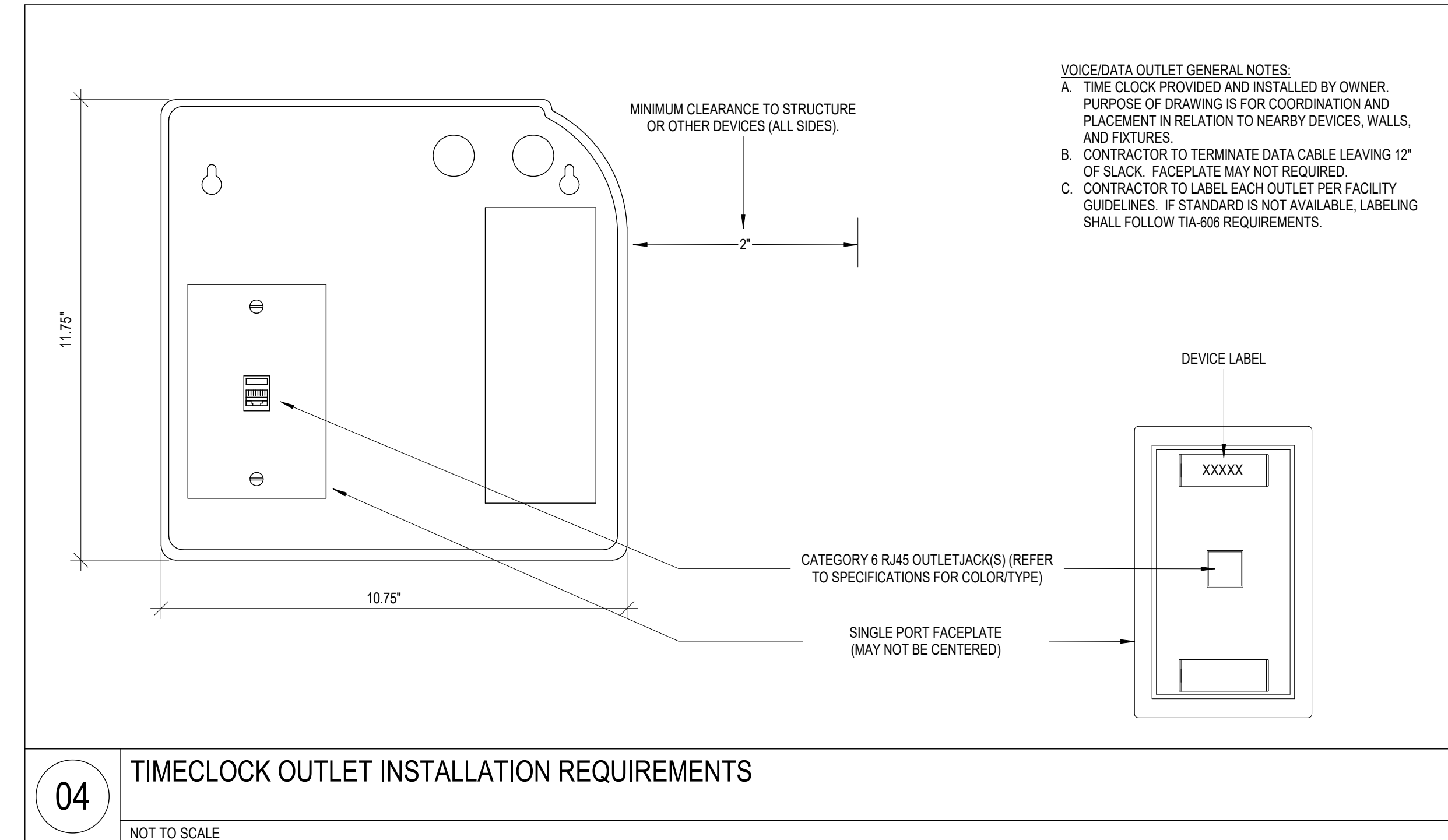
07 ABOVE CEILING OUTLET  
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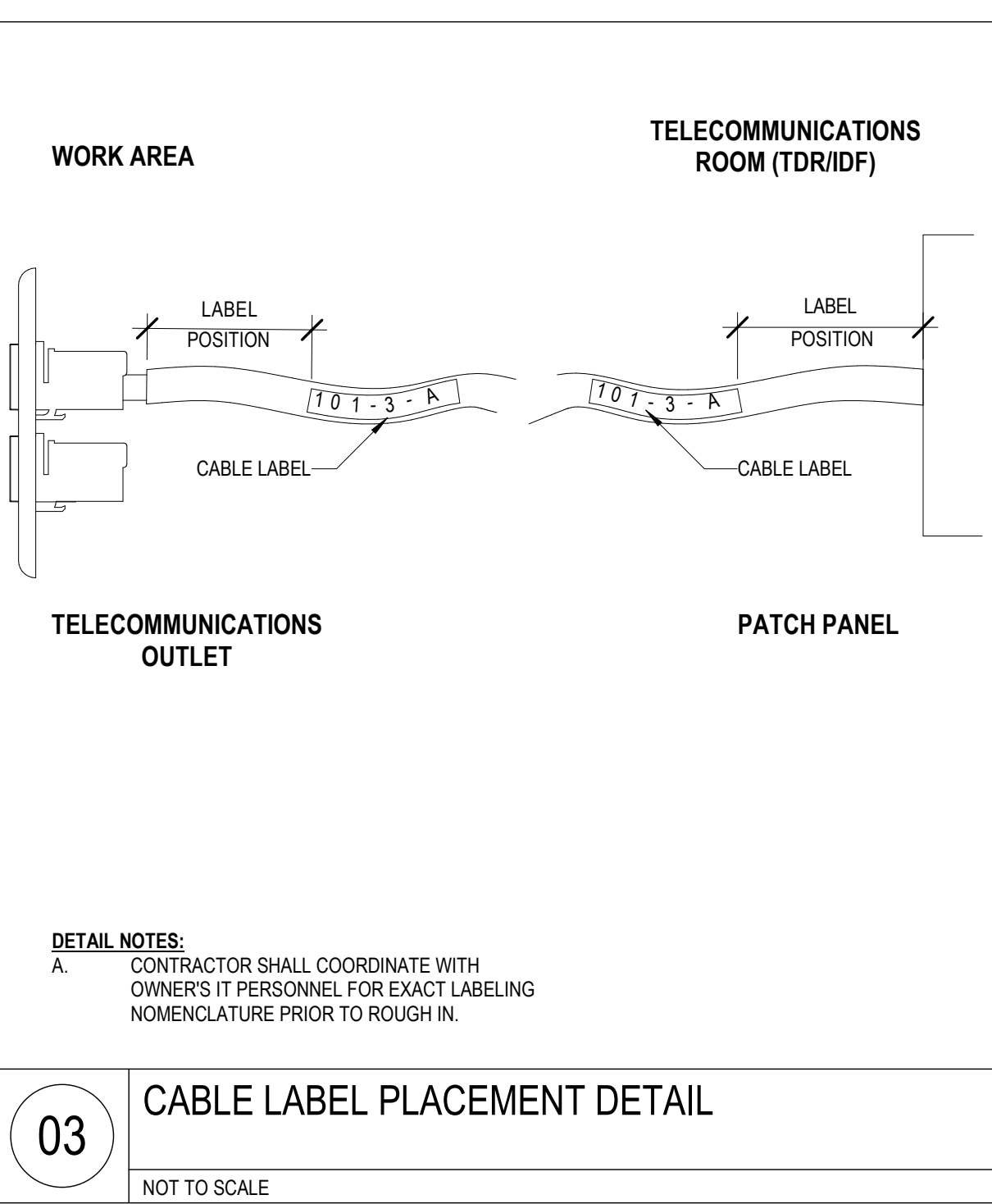
06 ARLINGTON RECESSED AV BOX (TVBS507) NON-CLINICAL TVS, INFO. MON., AND TRACKERS  
NOT TO SCALE



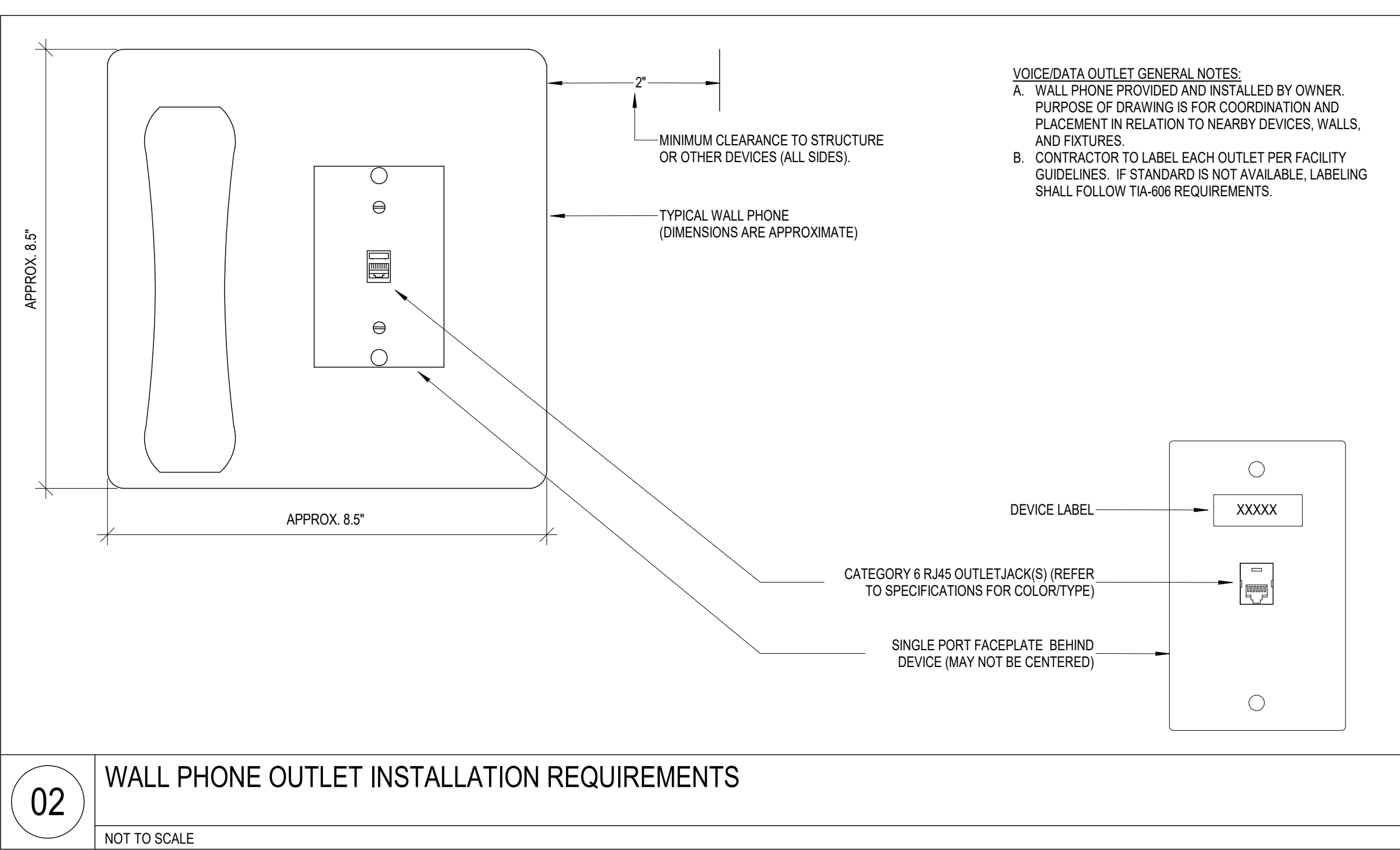
05 ARLINGTON RECESSED AV BOX (TVBS613) PATIENT TELEVISIONS  
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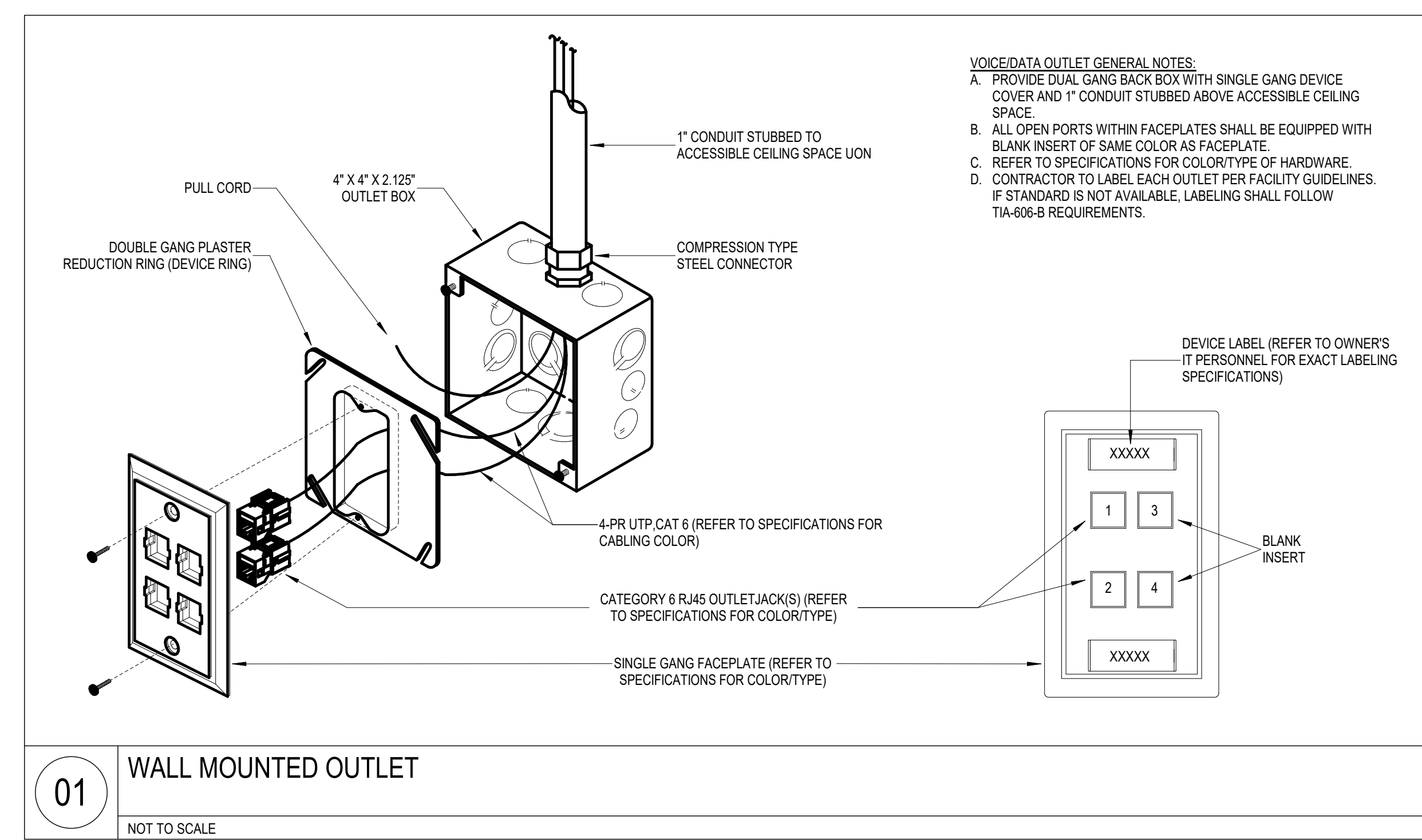
04 TIMECLOCK OUTLET INSTALLATION REQUIREMENTS  
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03 CABLE LABEL PLACEMENT DETAIL  
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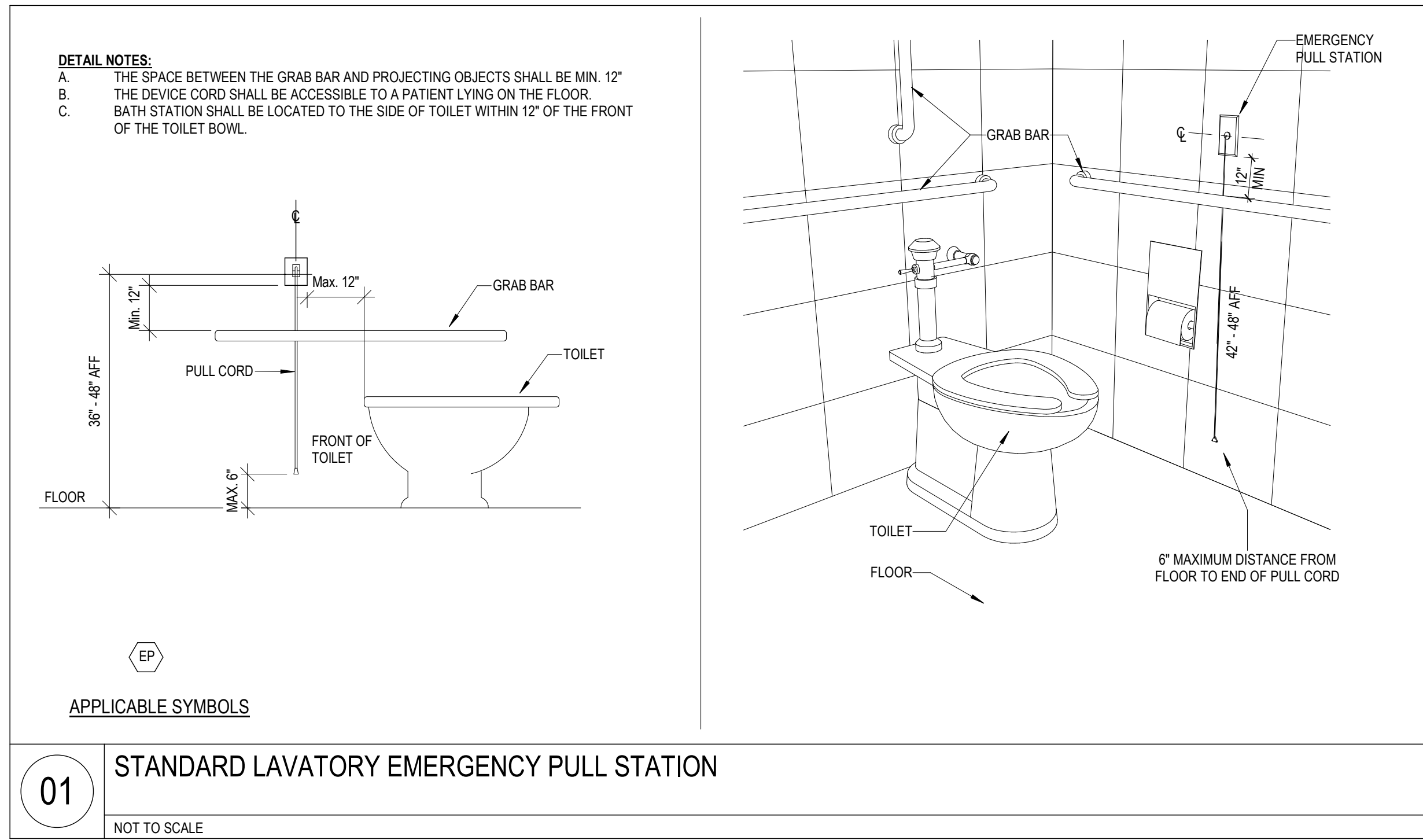
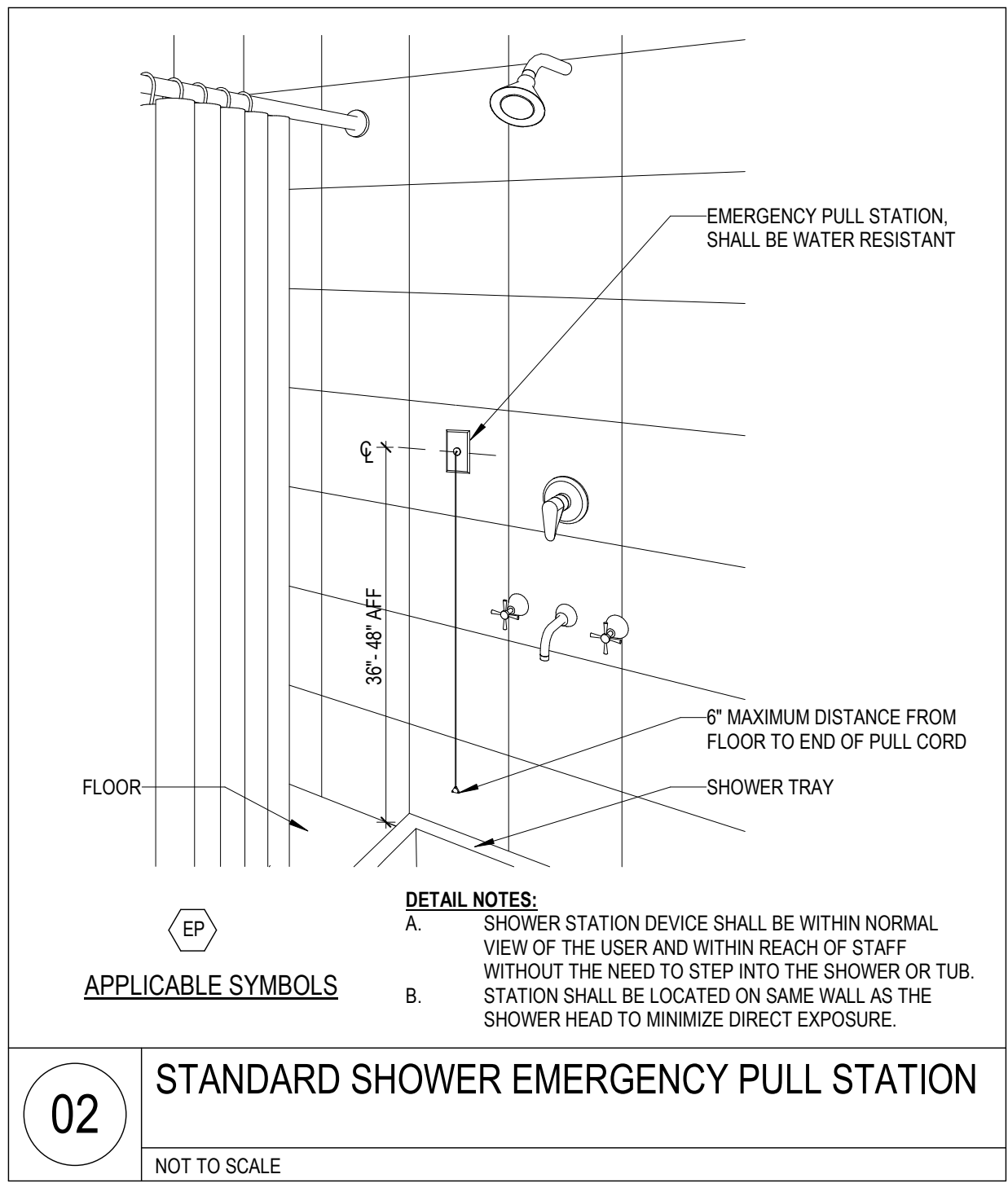
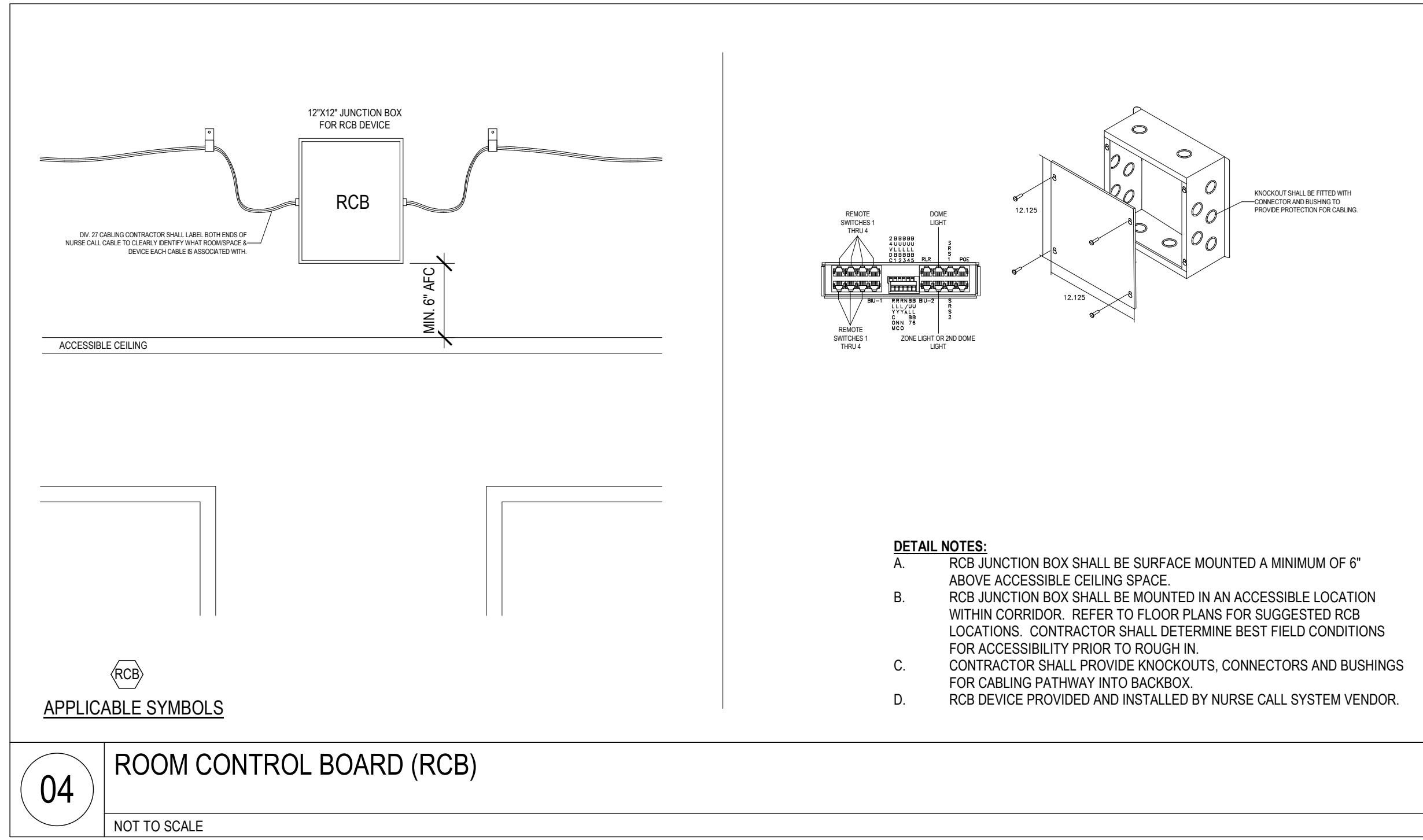
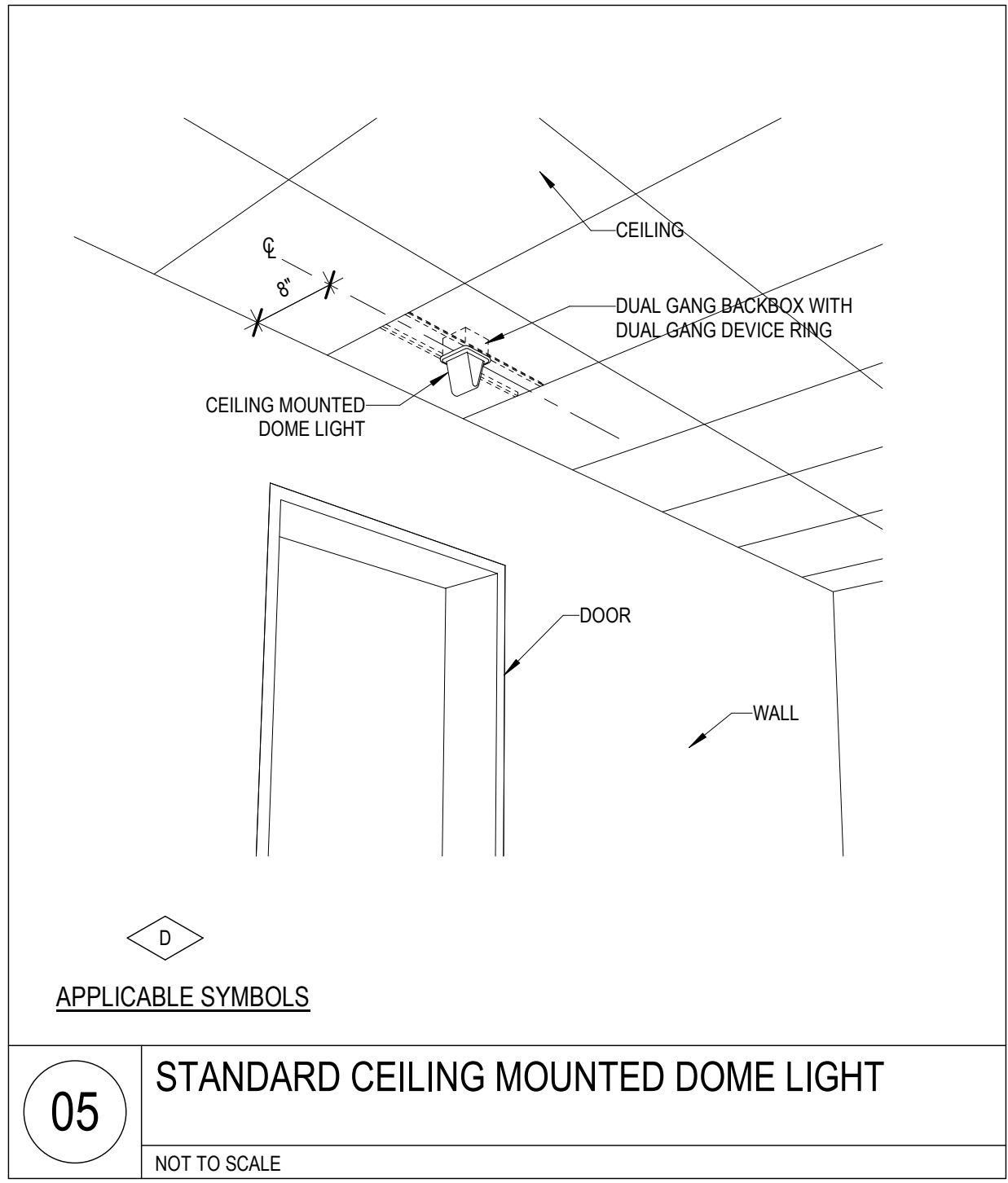
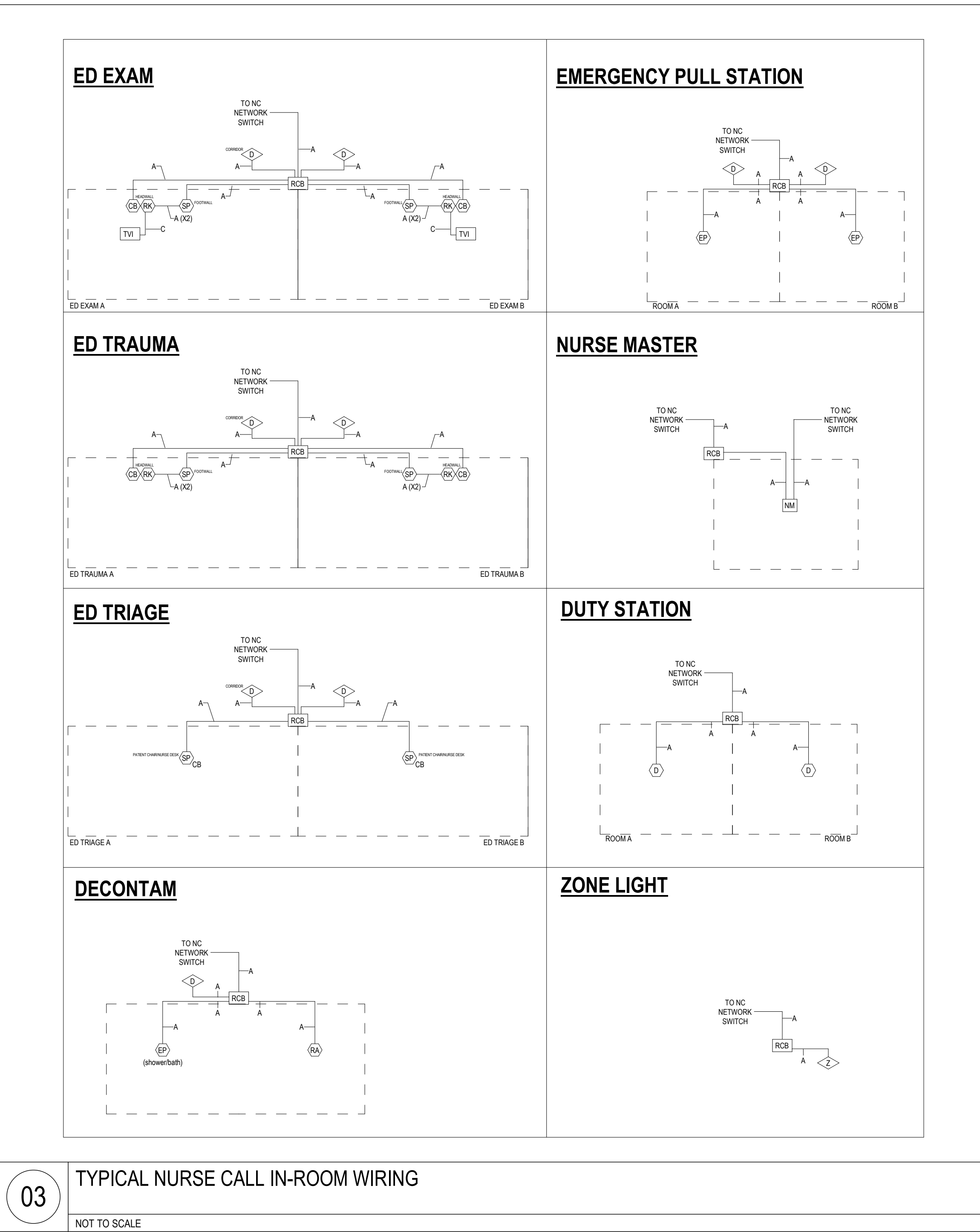
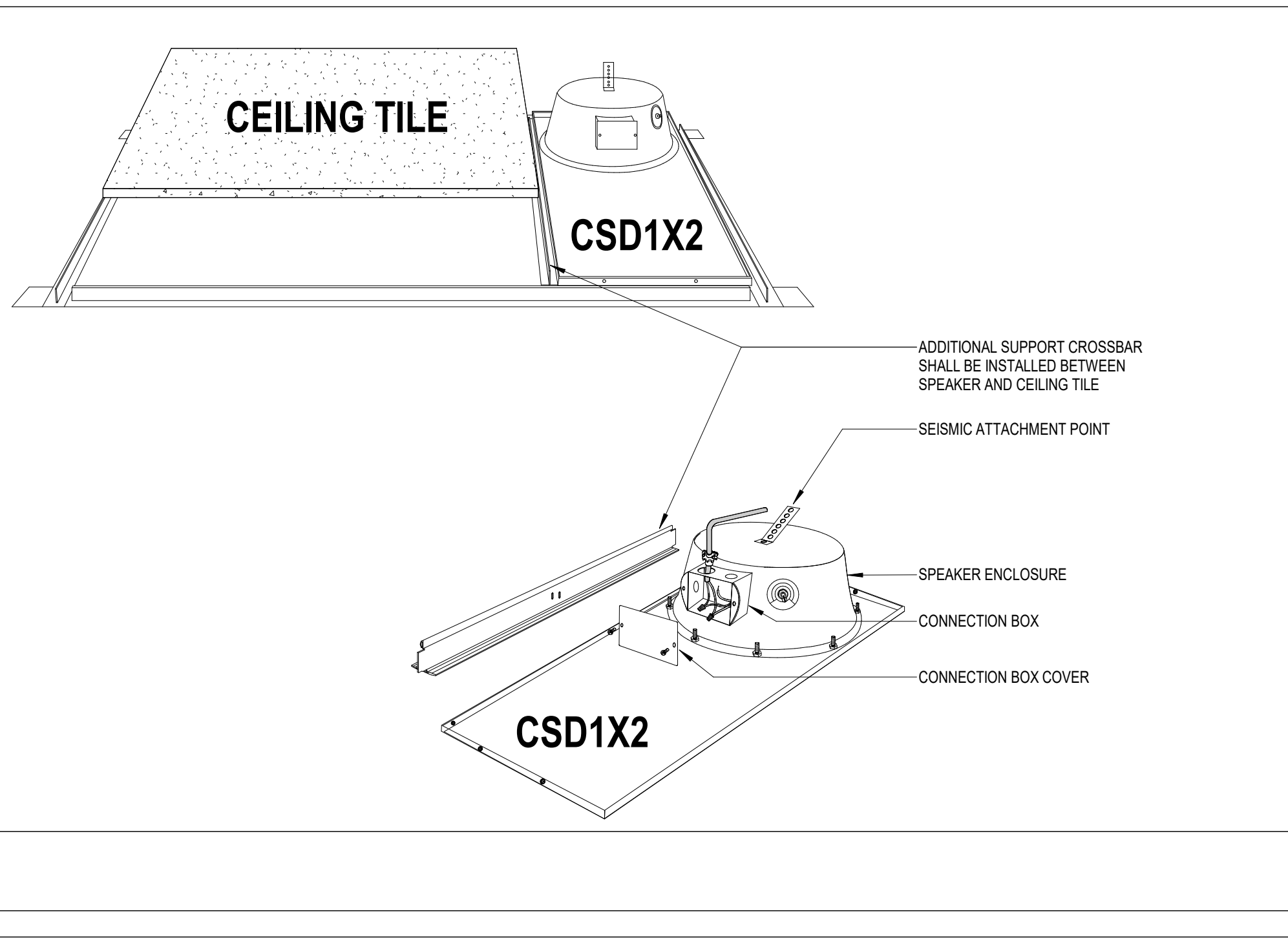
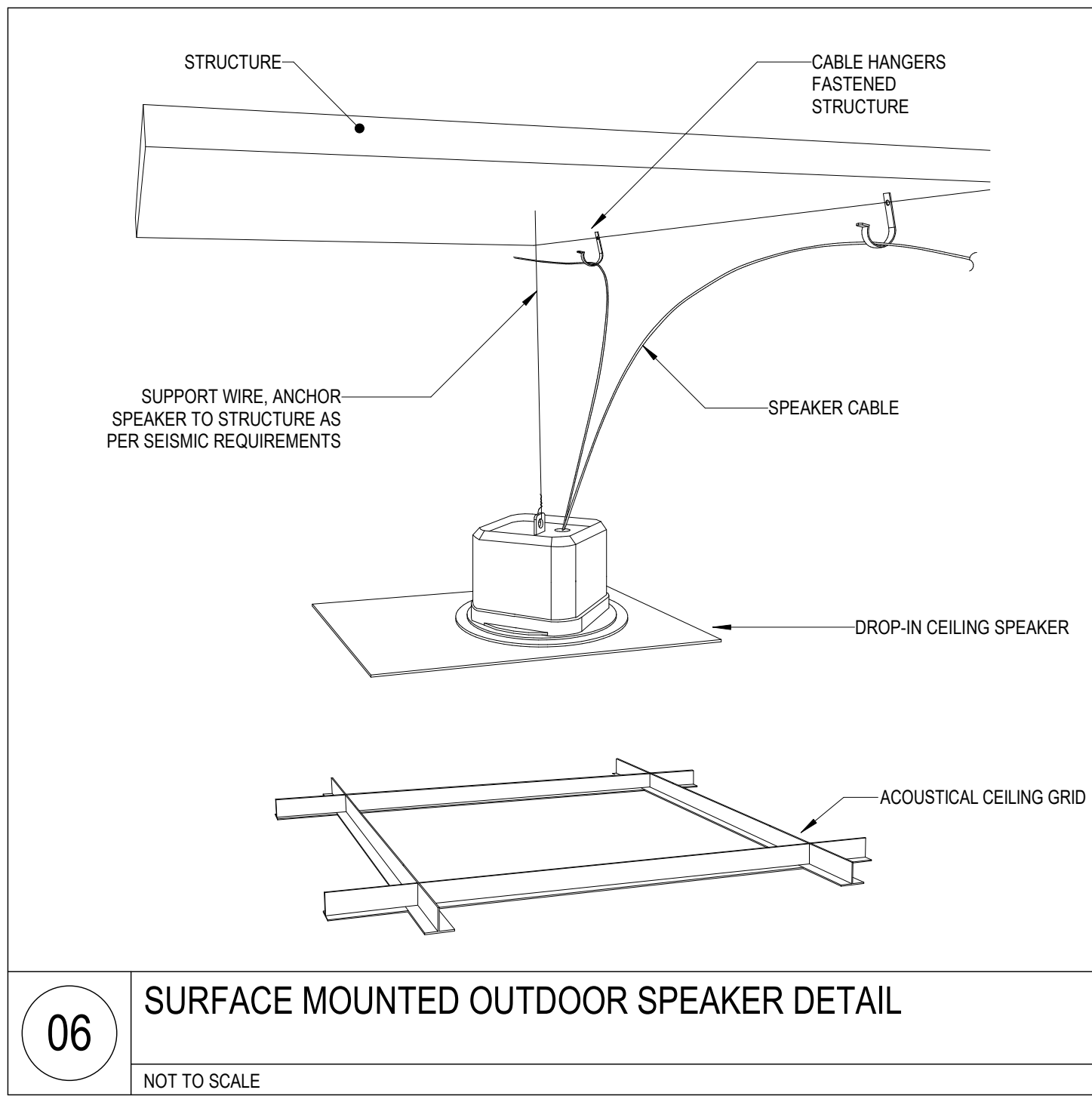
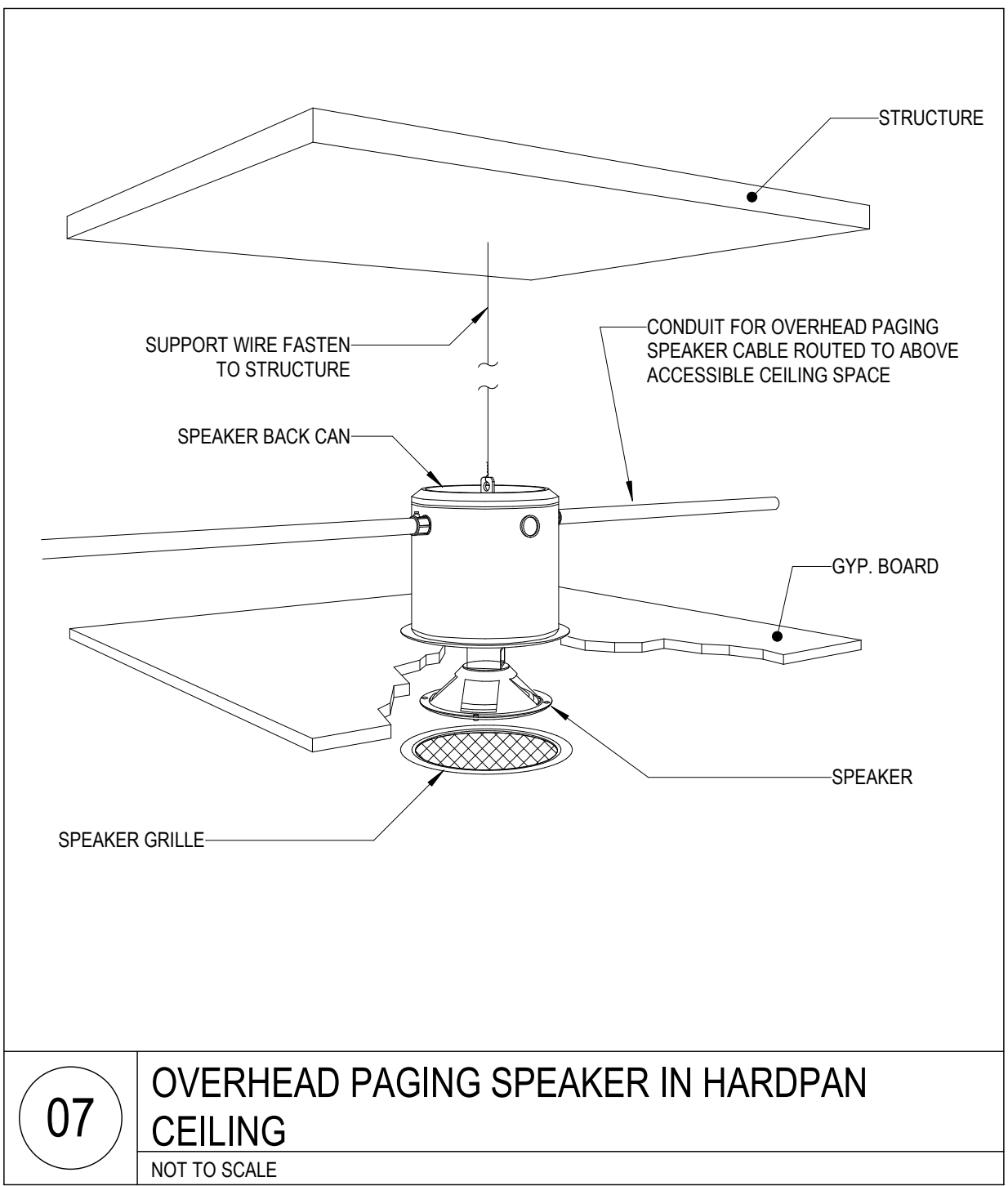
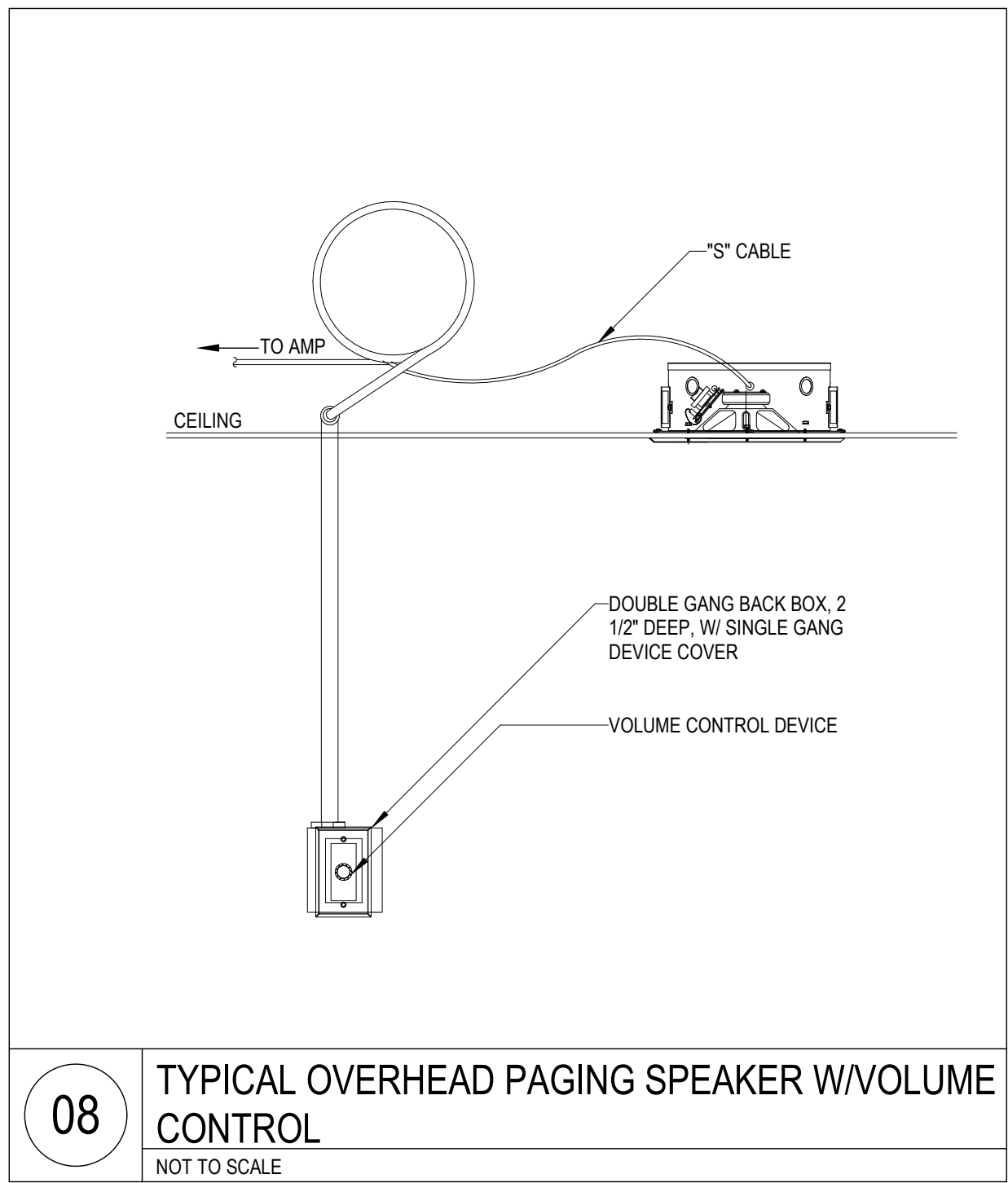


02 WALL PHONE OUTLET INSTALLATION REQUIREMENTS  
NOT TO SCALE



01 WALL MOUNTED OUTLET  
NOT TO SCALE





Devenney

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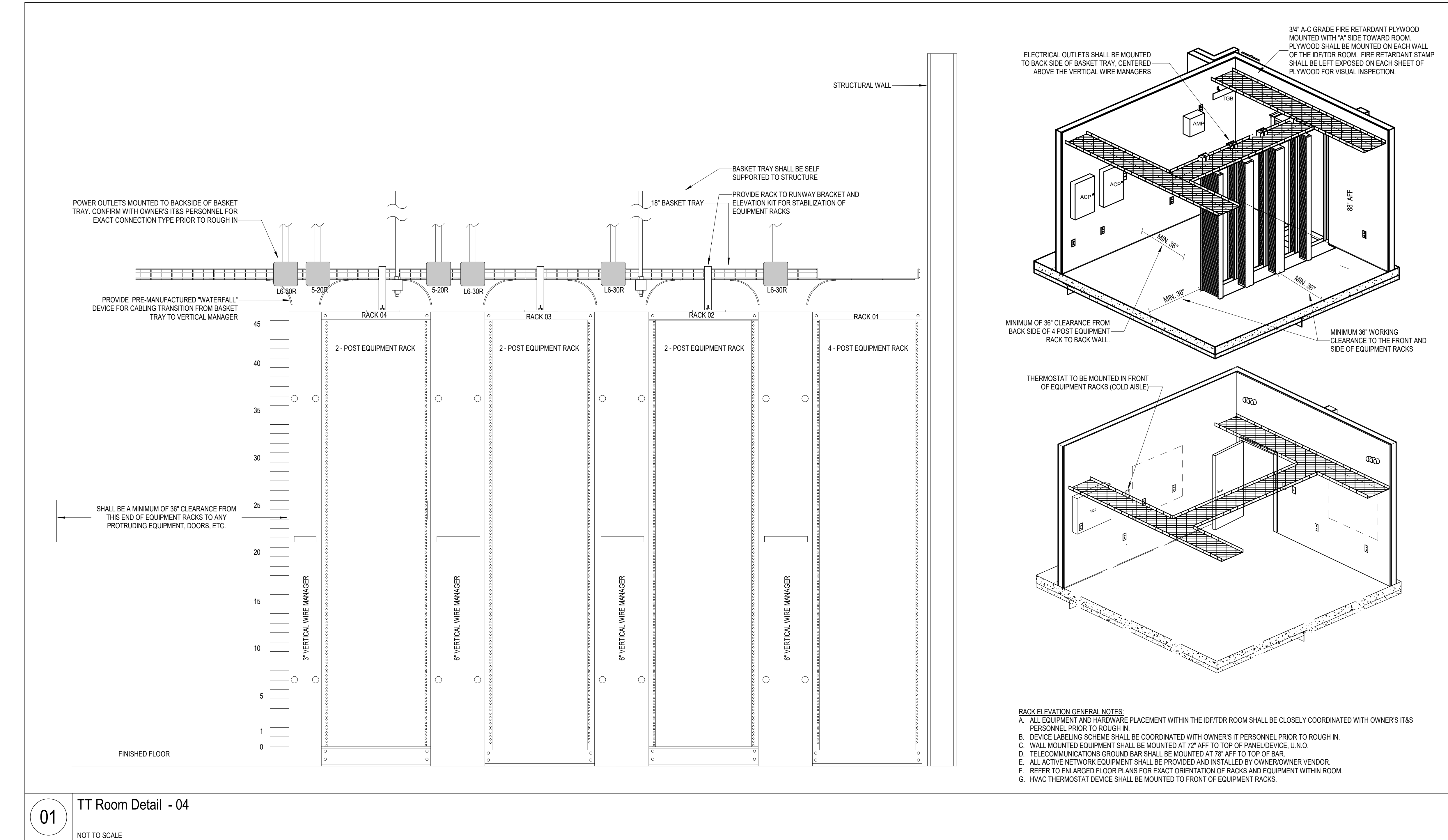
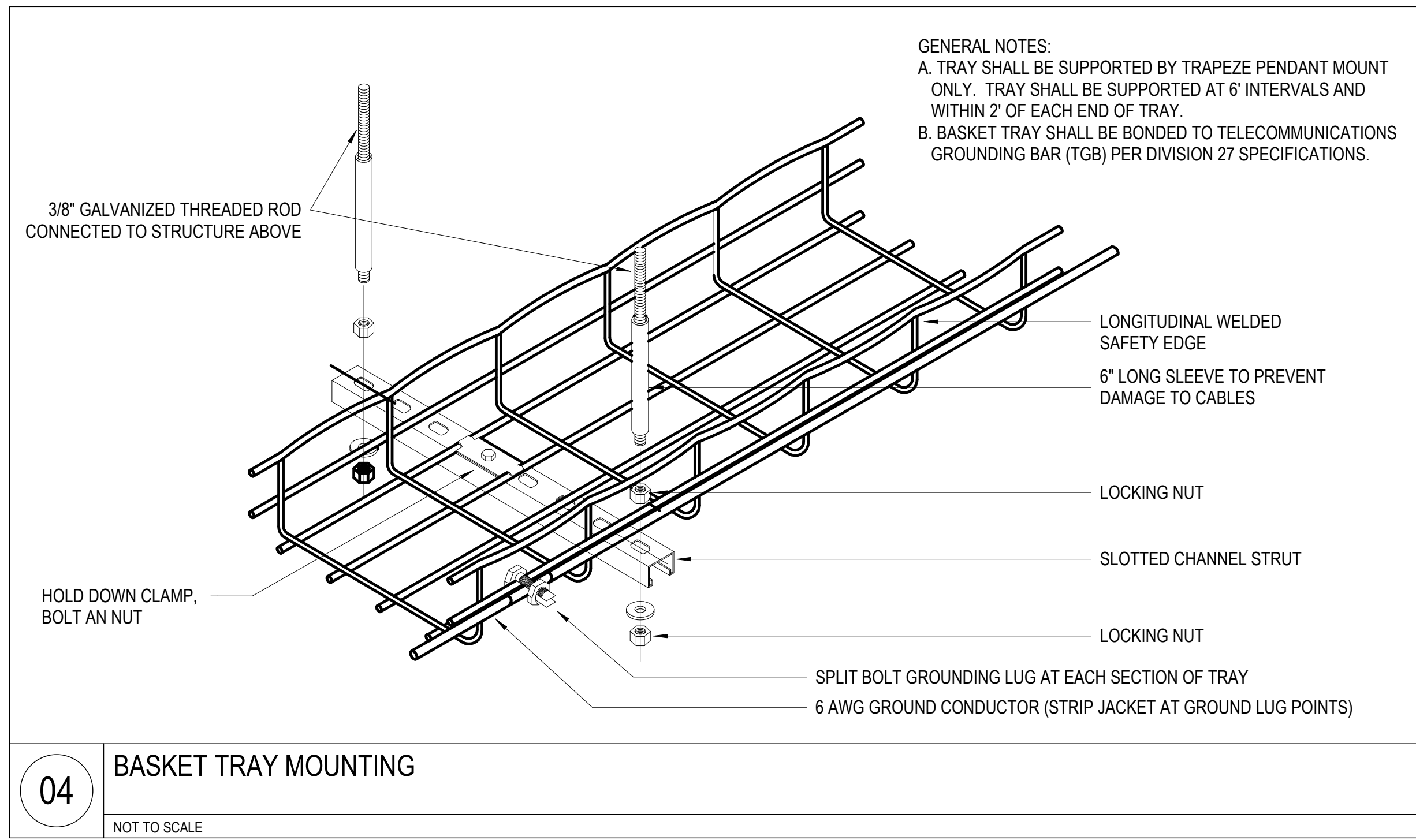
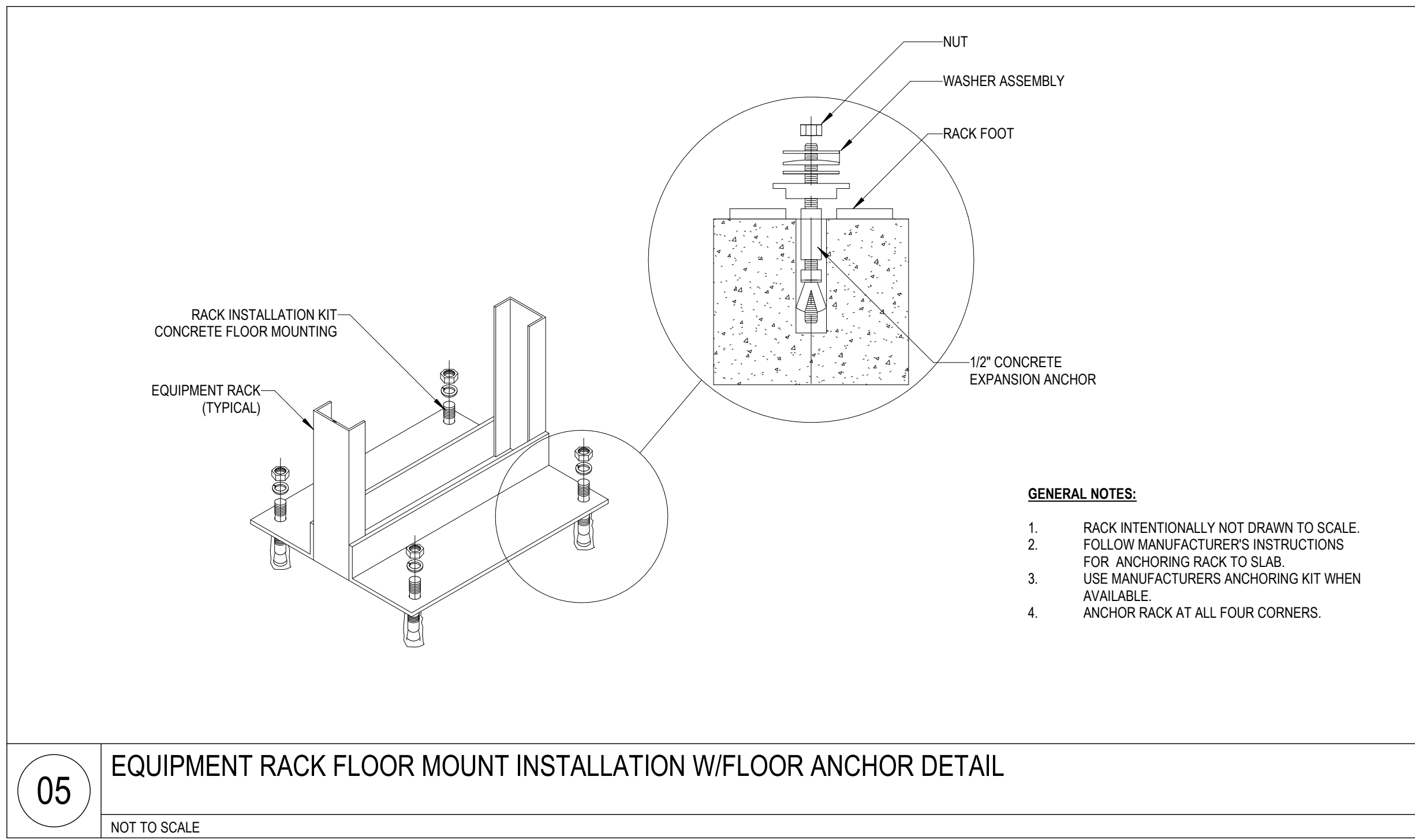
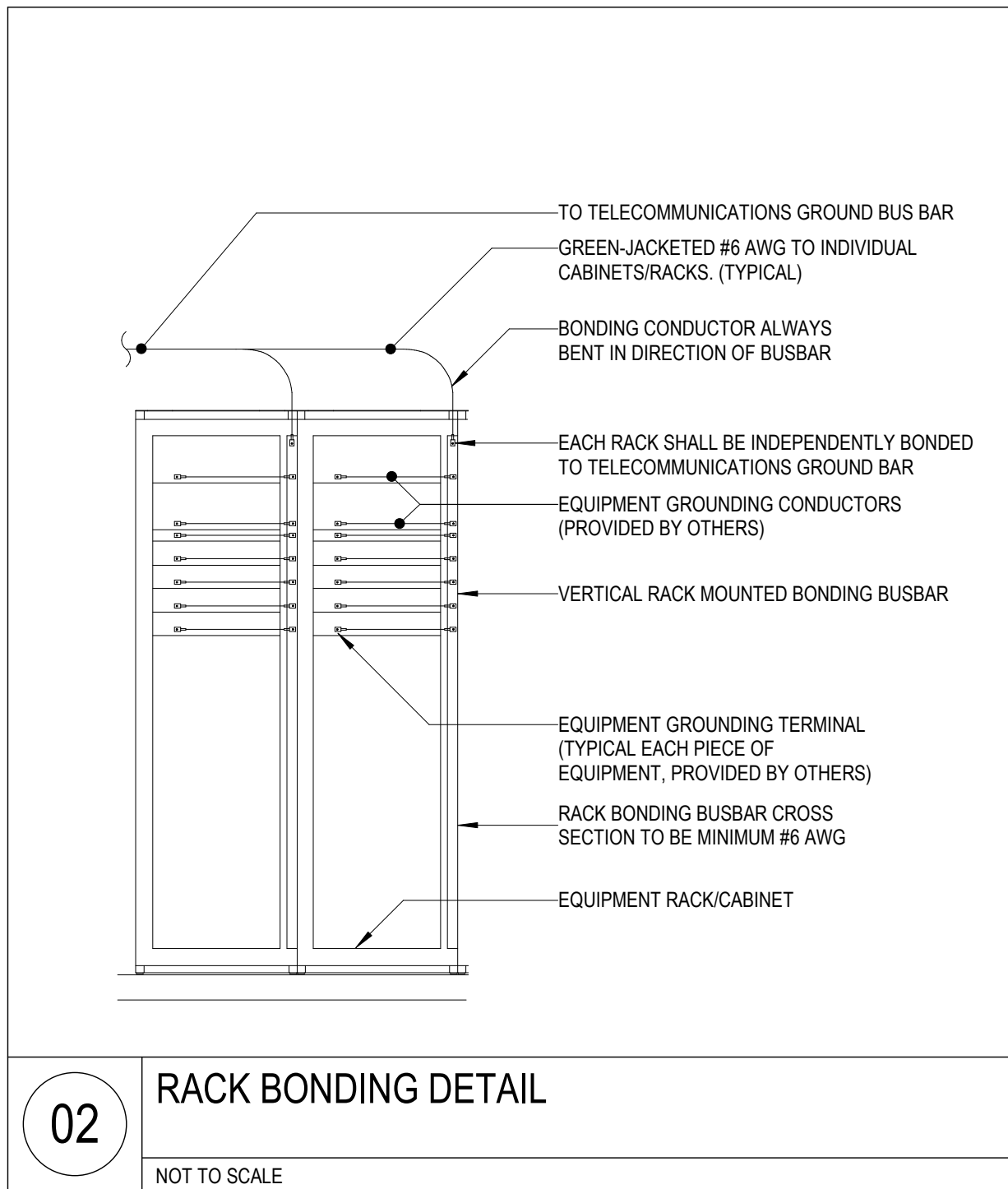
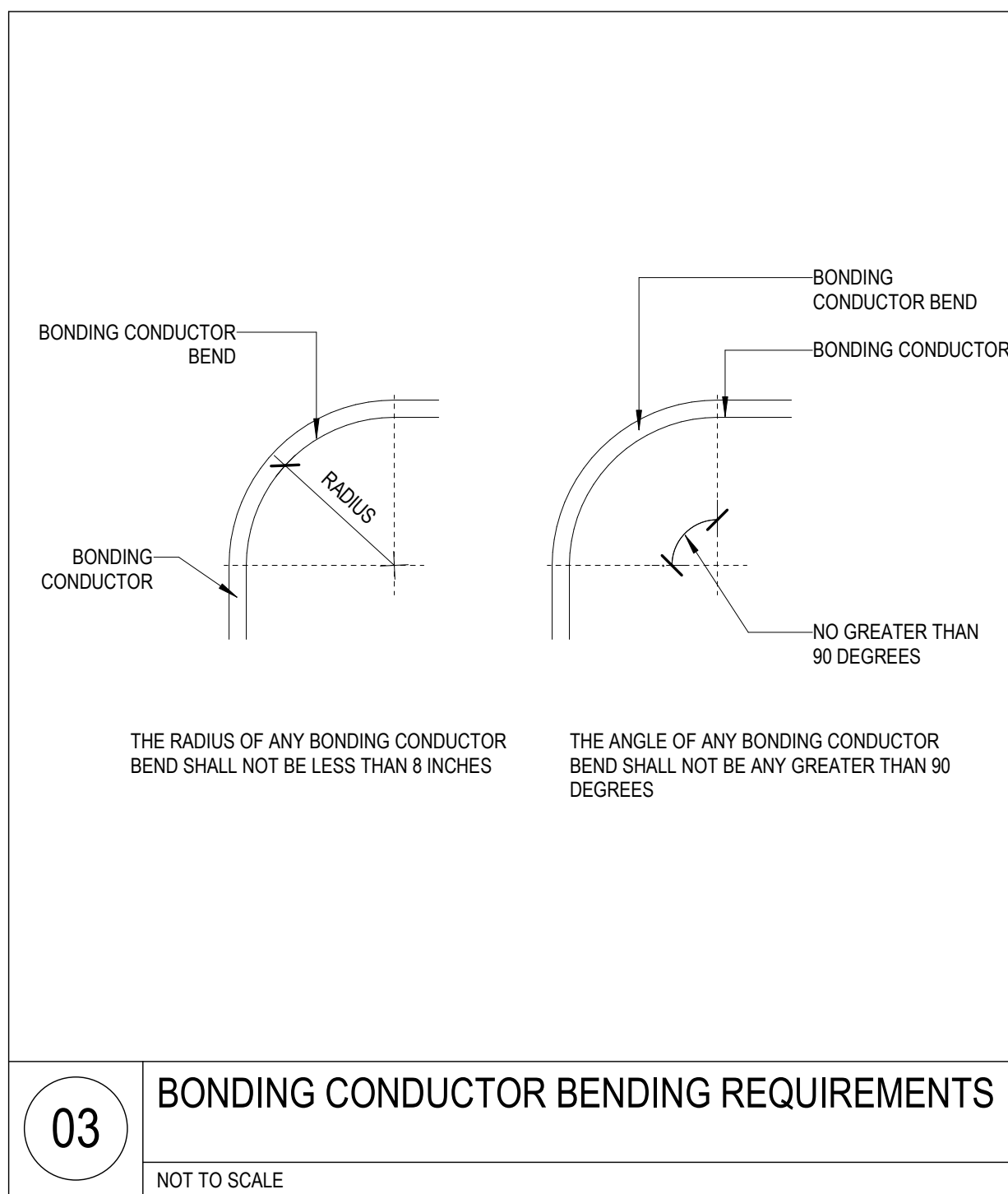
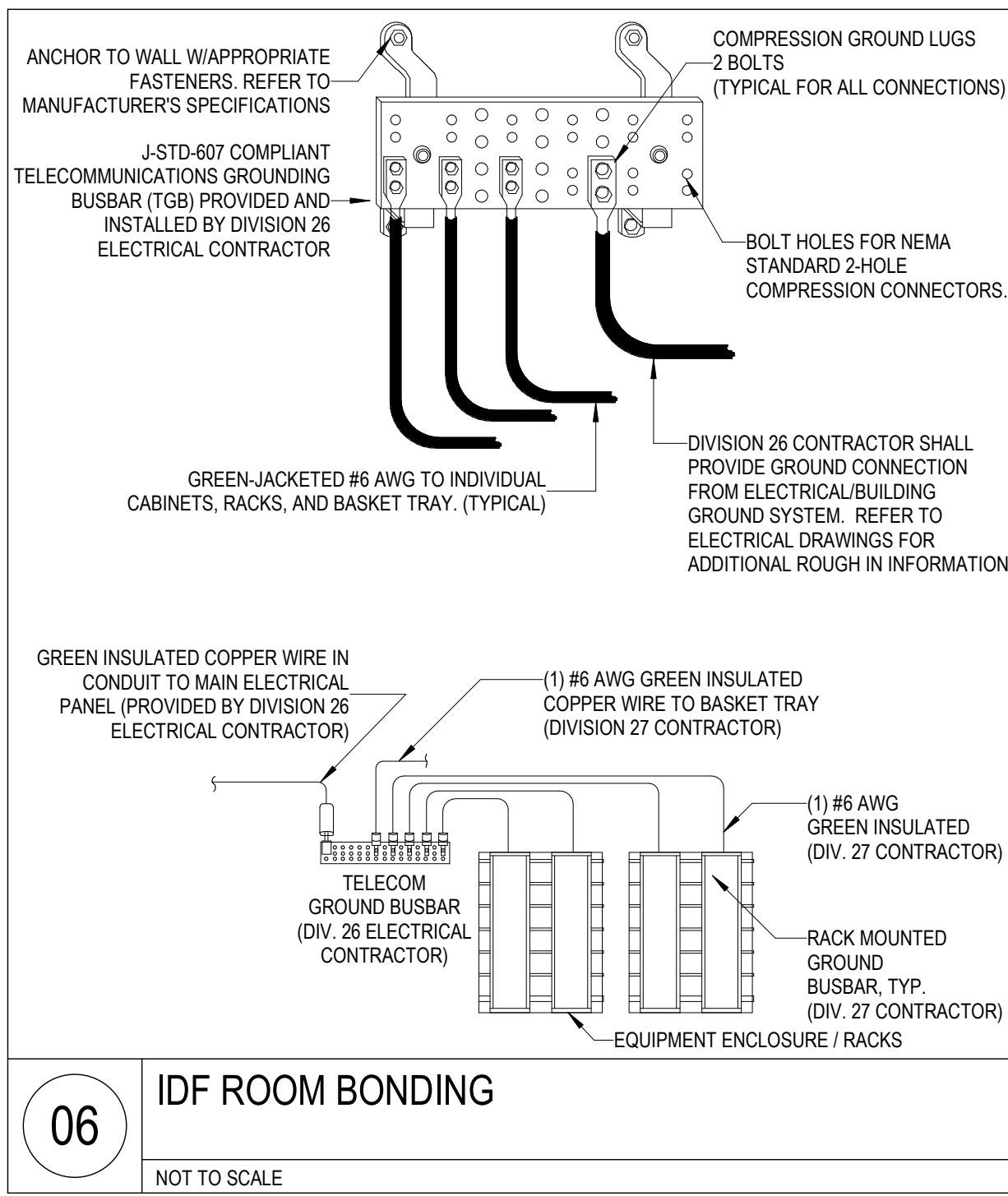
DETAILS - TECHNOLOGY

T07-02

Autodesk Docu/ / 6462624 - HCA - Lee's Summit Medical Center (LSMC) - r723/MEP - LSME ED Expansion: R23.rvt

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REVISIONS		
REV #	DESCRIPTION	DATE





Devenney Group Ltd., Architects

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Consultant:



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KANSAS CITY, MO 64105



04/18/2025  
WSP USA Buildings Inc. 2013001881

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## ED EXPANSION

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

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

FACILITY NUMBER:  
0972400011

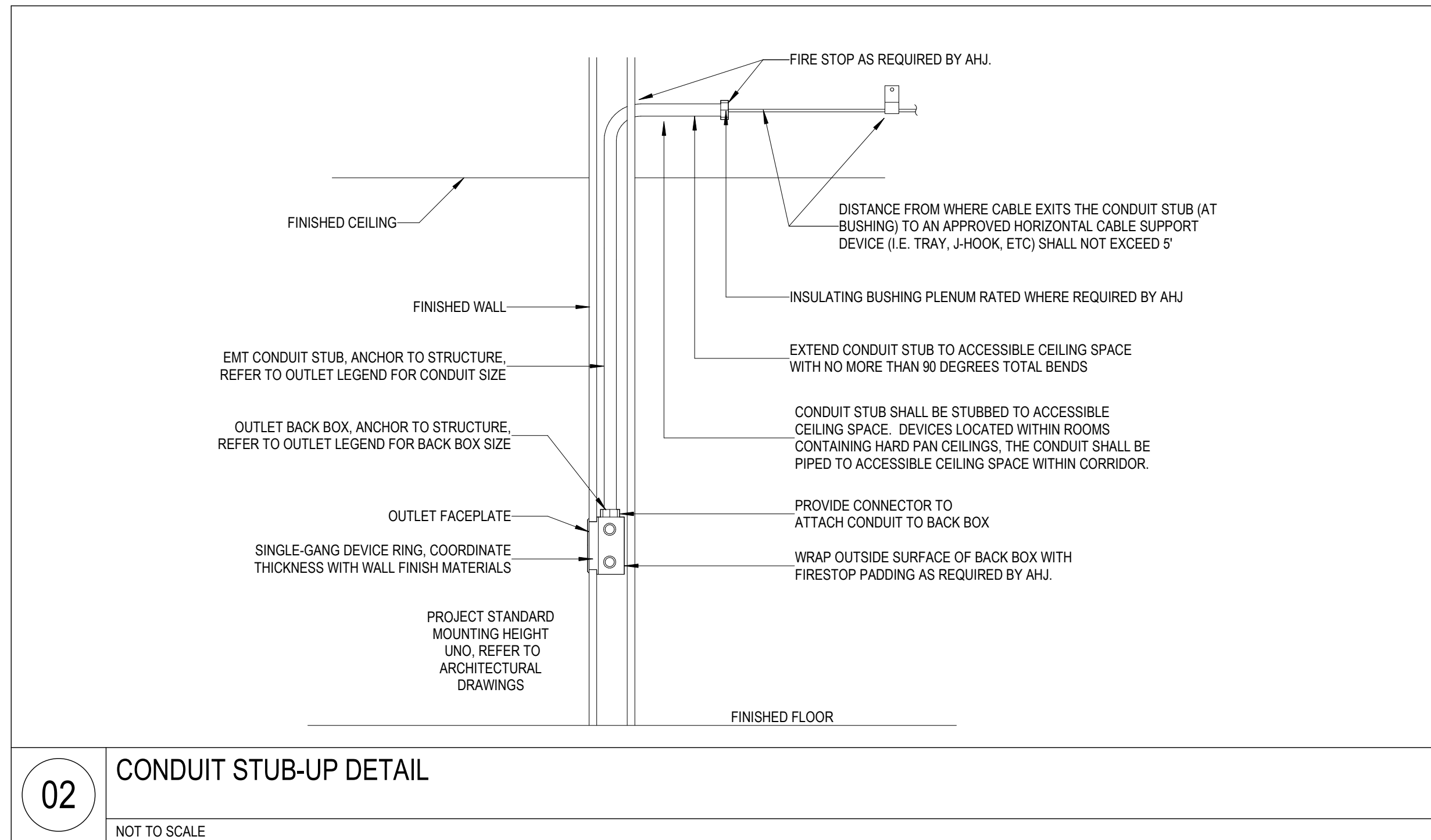
AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 04/18/25  
SCALE: 3/32" = 1'-0"  
DRAWN: WSP  
REVIEWED: WSP  
JOB NUMBER: U50040241.3707

## DETAILS - TECHNOLOGY

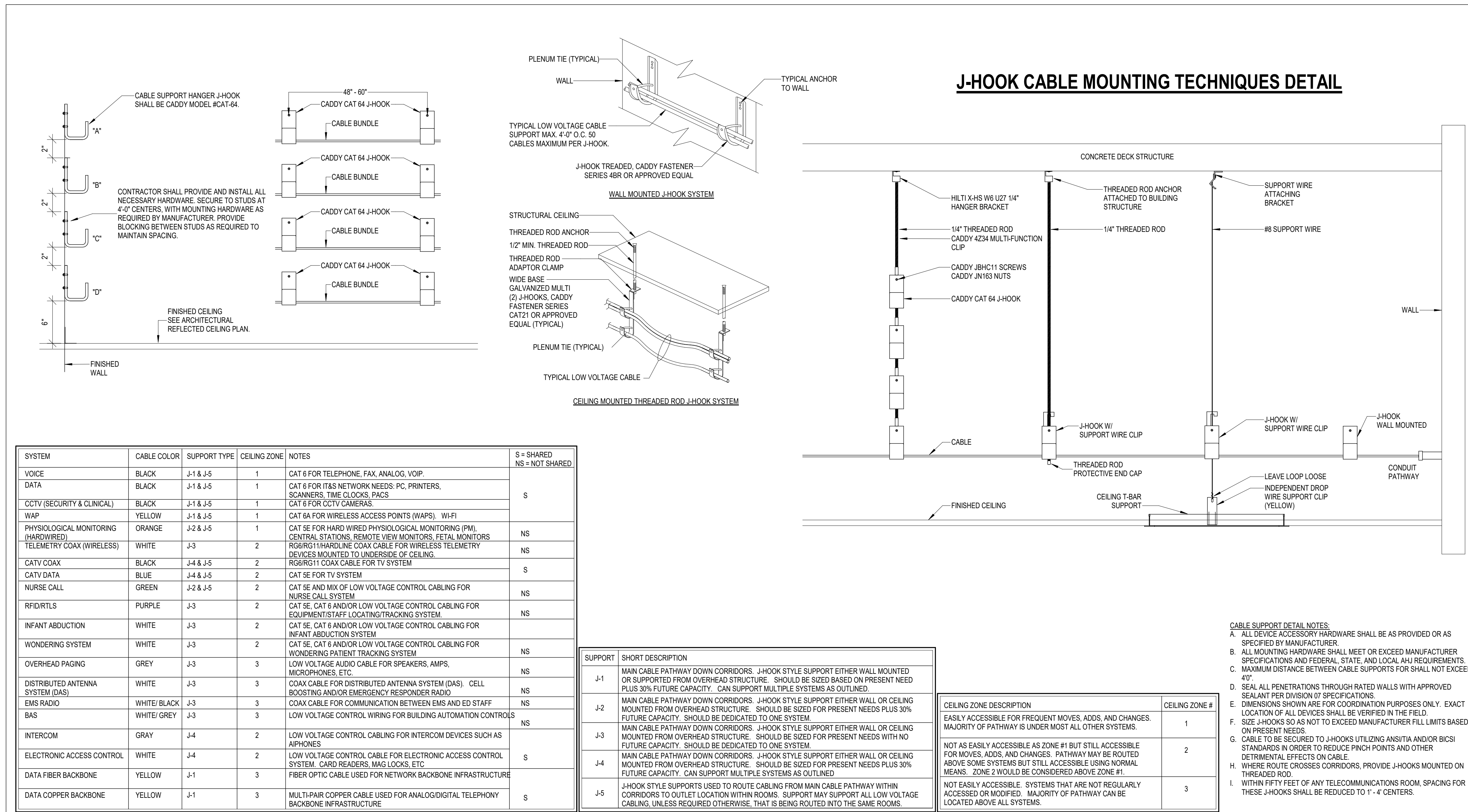
T07-04



02

### CONDUIT STUB-UP DETAIL

NOT TO SCALE



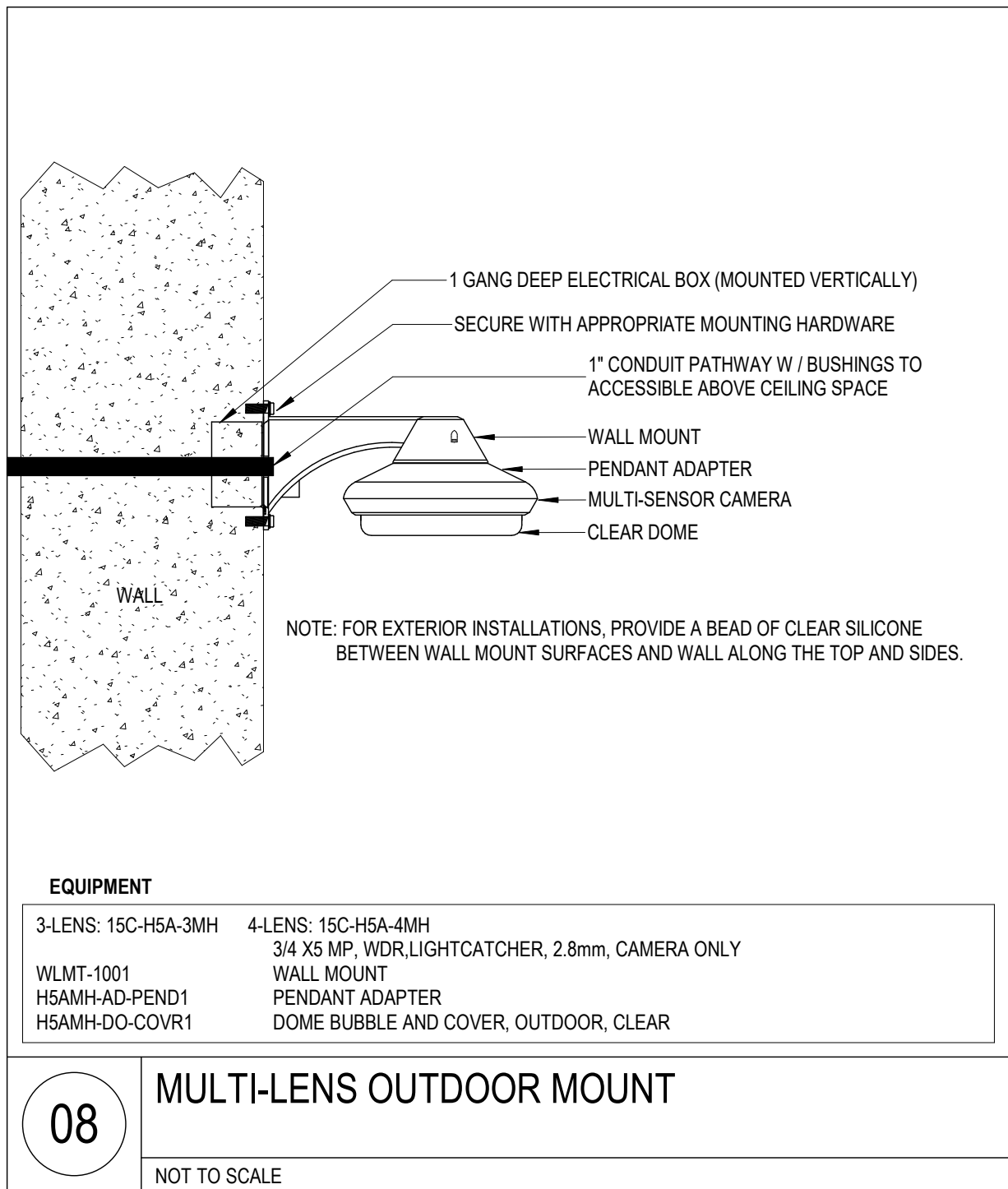
01

### J-HOOK MOUNTING DETAILS

NOT TO SCALE

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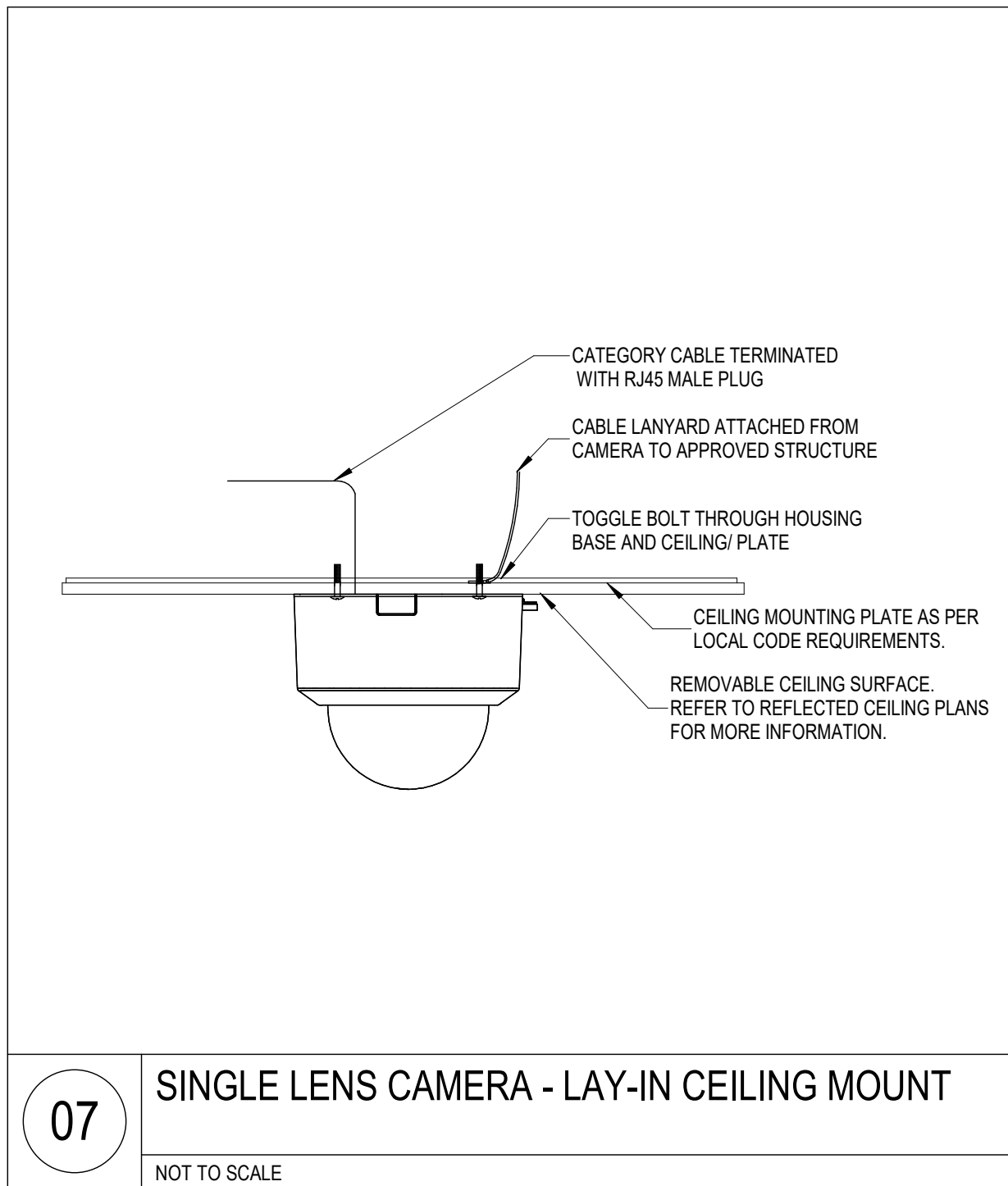




<b>EQUIPMENT</b>	
3-LENS: 15C-H5A-3MH	4-LENS: 15C-H5A-4MH
WLMT-1001	3/4 XS MP, WDR, LIGHTCATCHER, 2.8mm, CAMERA ONLY
H5AMH-AD-PEND1	WALL MOUNT
H5AMH-DO-COVR1	PENDANT ADAPTER
	DOME BUBBLE AND COVER, OUTDOOR, CLEAR

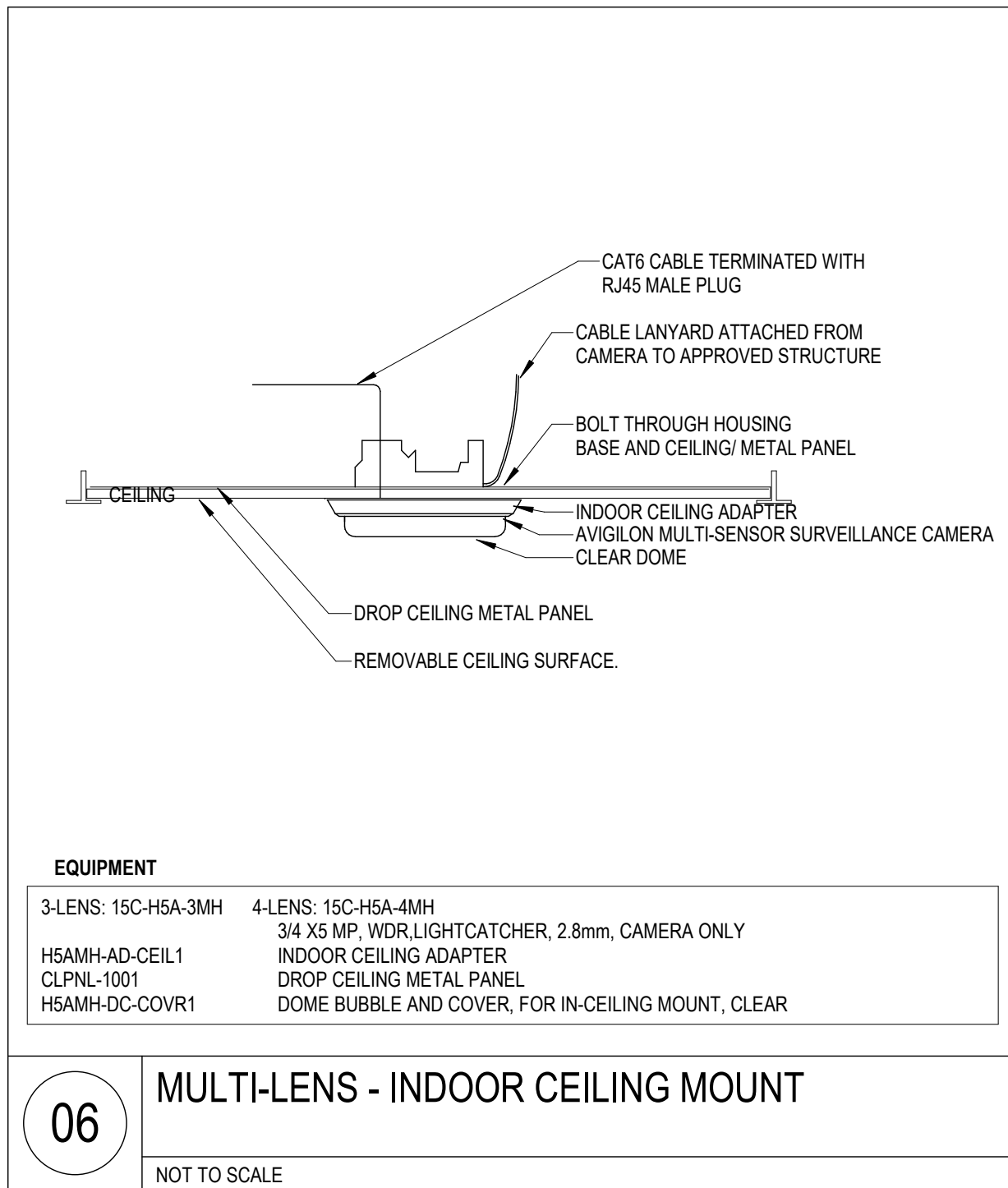
**08** MULTI-LENS OUTDOOR MOUNT

NOT TO SCALE



**07** SINGLE LENS CAMERA - LAY-IN CEILING MOUNT

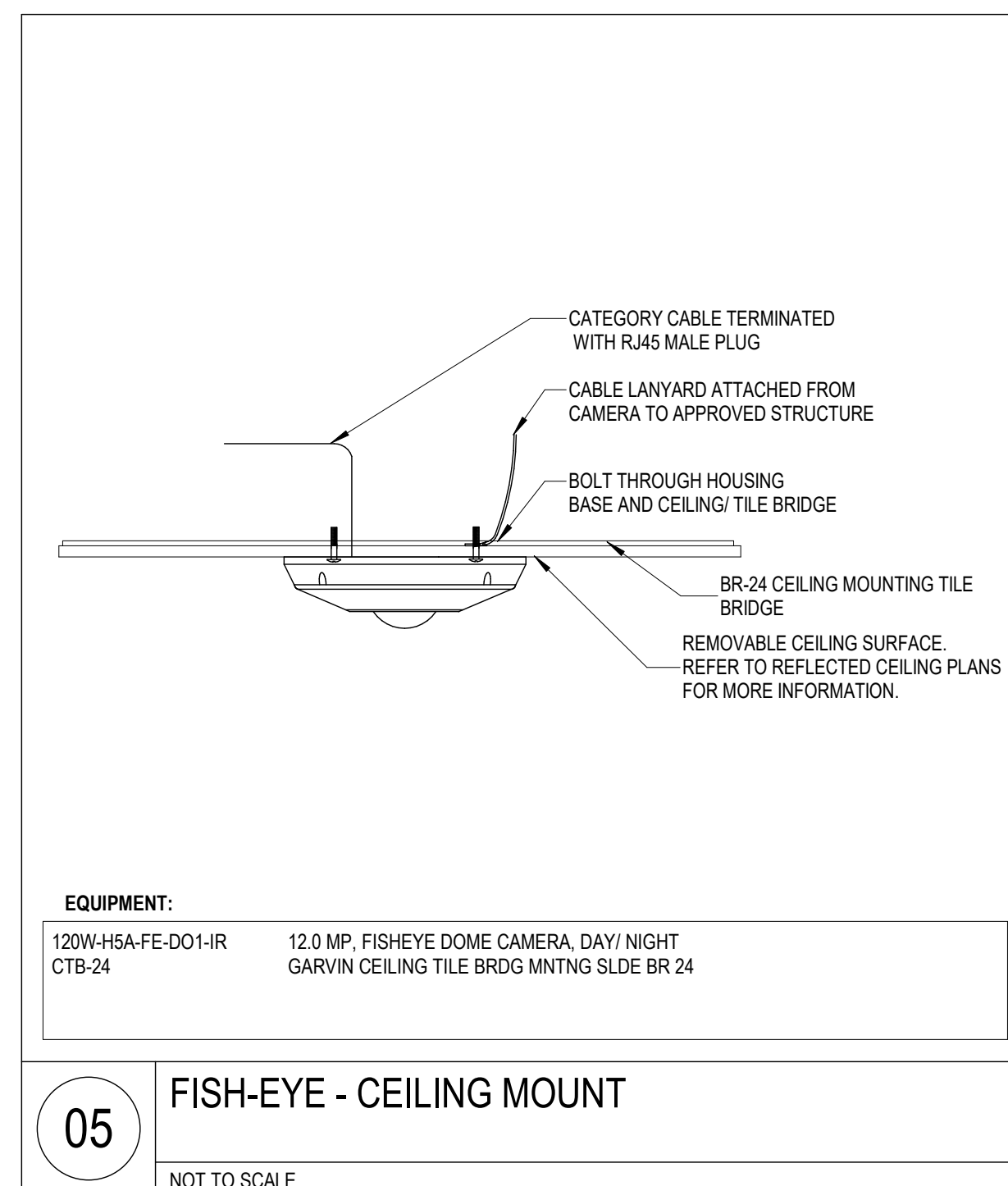
NOT TO SCALE



<b>EQUIPMENT</b>	
3-LENS: 15C-H5A-3MH	4-LENS: 15C-H5A-4MH
H5AMH-AD-CEIL1	3/4 XS MP, WDR, LIGHTCATCHER, 2.8mm, CAMERA ONLY
CLPNL-1001	INDOOR CEILING ADAPTER
H5AMH-DC-COVR1	DROP CEILING METAL PANEL
	DOME BUBBLE AND COVER, FOR IN-CEILING MOUNT, CLEAR

**06** MULTI-LENS - INDOOR CEILING MOUNT

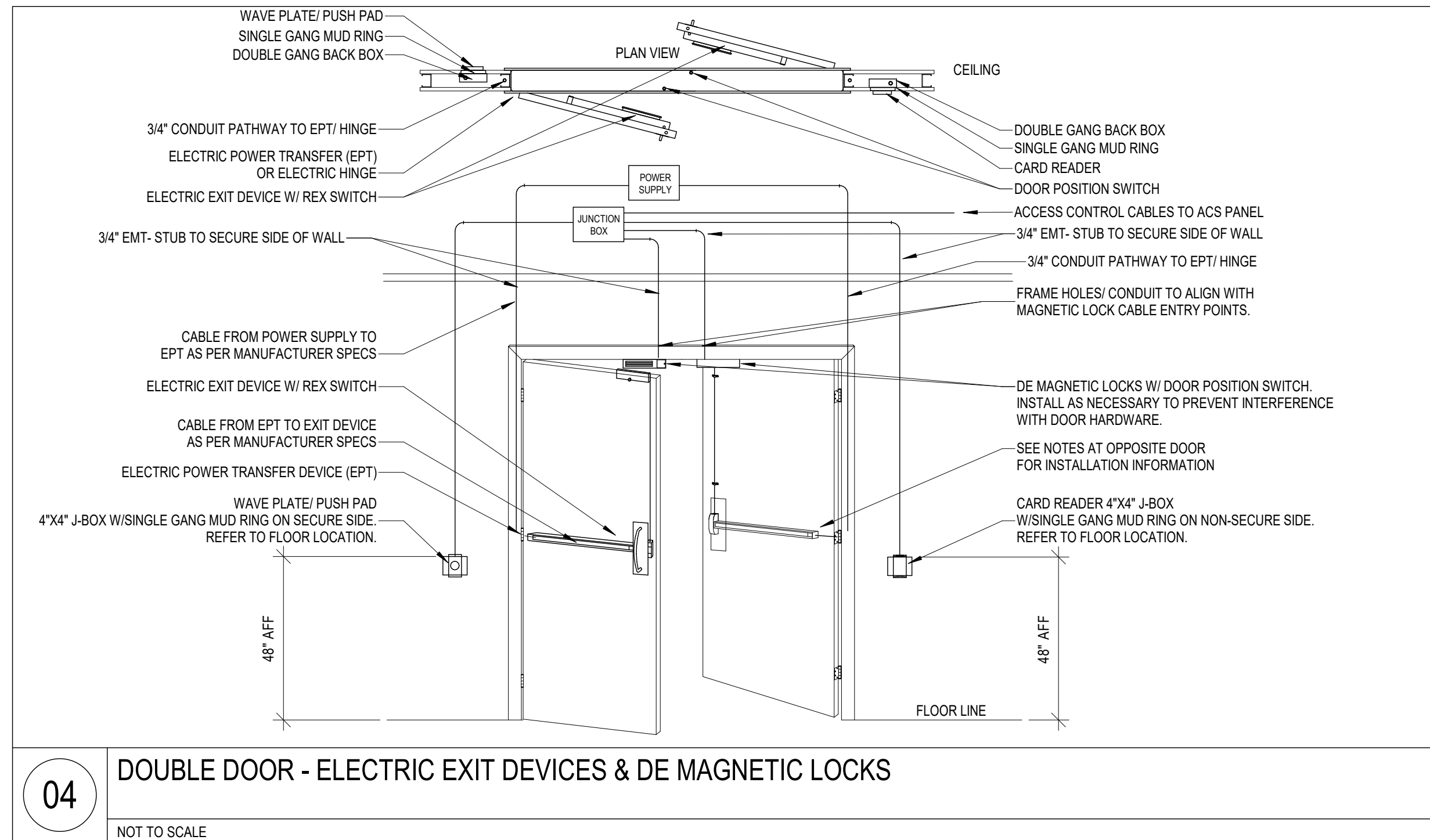
NOT TO SCALE



<b>EQUIPMENT:</b>	
120W-H5A-FE-D01-R	12.0 MP, FISHEYE DOME CAMERA, DAY/NIGHT
CTB-24	GARVIN CEILING TILE BRIDGE MOUNTING SLIDE BR-24

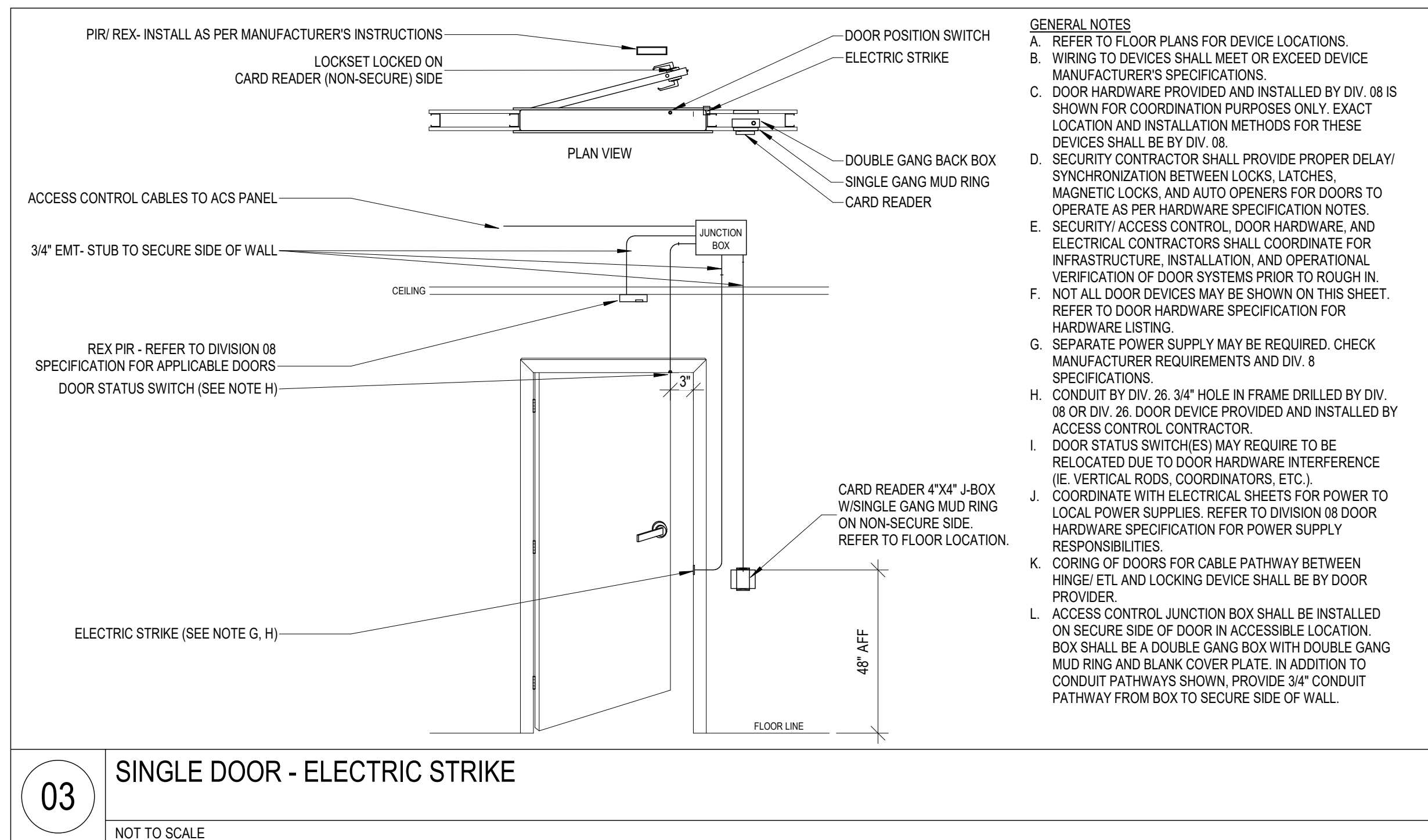
**05** FISH-EYE - CEILING MOUNT

NOT TO SCALE



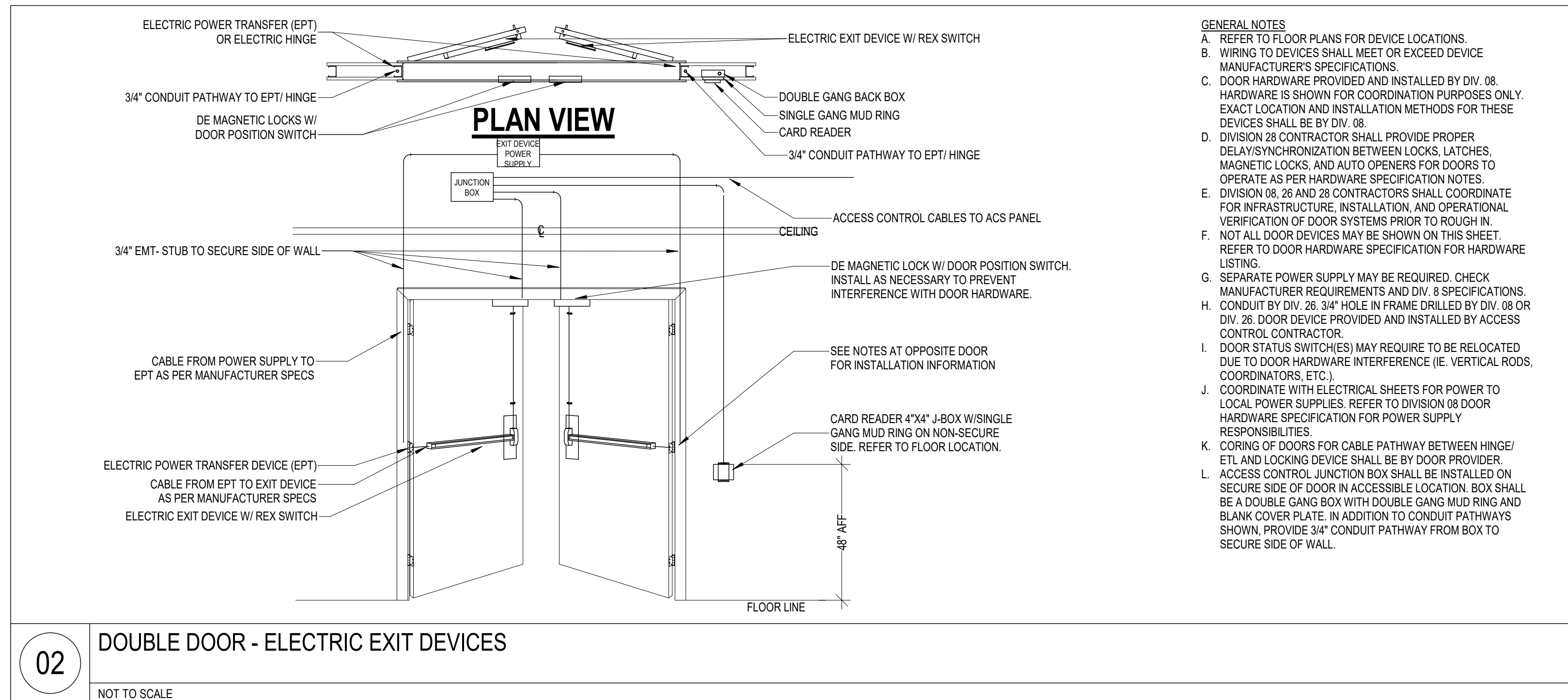
**04** DOUBLE DOOR - ELECTRIC EXIT DEVICES & DE MAGNETIC LOCKS

NOT TO SCALE



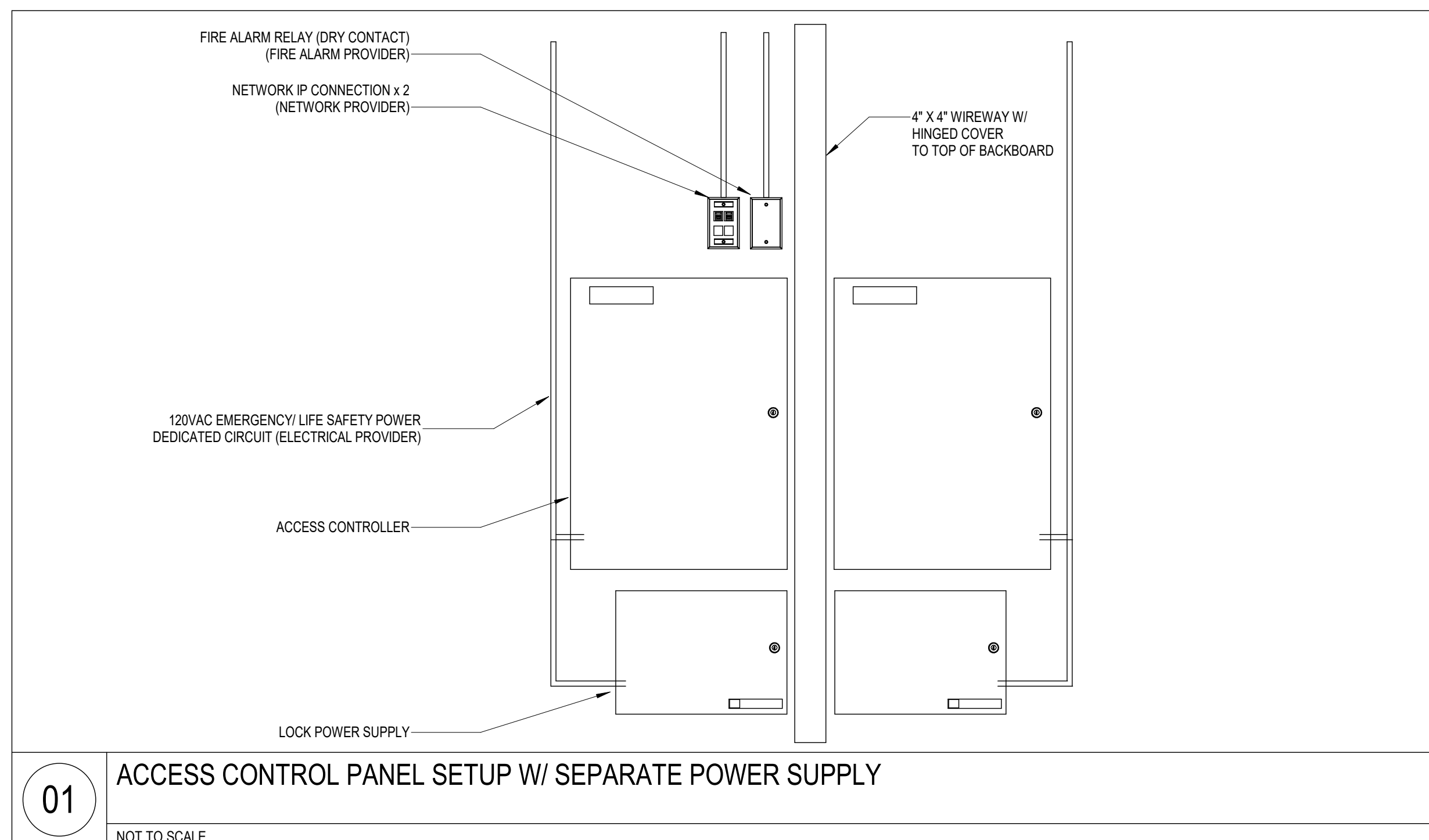
**03** SINGLE DOOR - ELECTRIC STRIKE

NOT TO SCALE



**02** DOUBLE DOOR - ELECTRIC EXIT DEVICES

NOT TO SCALE



**01** ACCESS CONTROL PANEL SETUP W/ SEPARATE POWER SUPPLY

NOT TO SCALE

**Devenney**  
GROUP

Devenney Group Ltd., Architects

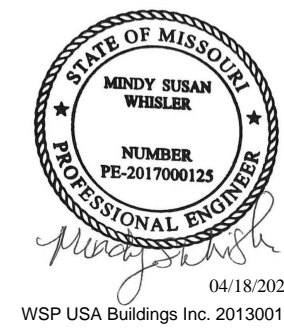
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**wsp**

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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: 04/18/25  
SCALE: 1/8" = 1'-0"  
DRAWN: WSP  
REVIEWED: WSP  
JOB NUMBER: U50040241.3707

## DETAILS - TECHNOLOGY

**T07-05**

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternate 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 Doc./Pdp/24 - HCA - Lee's Summit Medical Center (LSMC) r123/MDP - LSME ED Expansion: R23.rvt

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TECHNOLOGY SYSTEMS EQUIPMENT AND STRUCTURED CABLING COORDINATION SCHEDULE

SYSTEM	EQUIPMENT			CABLING					ROUGH IN							GROUNDING
	EQUIPMENT FURNISHED BY	EQUIPMENT INSTALLED BY	TEST/CERTIFIED BY	CABLE FURNISHED BY	CABLE INSTALLED BY	CABLE TERMINATIONS BY	LABELLED BY	TEST/CERTIFIED BY	CONDUIT SLEEVES BY (NOTE 3)	CONDUIT PATHWAYS BY (NOTE 4)	PRE-MANUFACTURED FIRE SLEEVE BY (NOTE 5)	BACK BOXES PROVIDED BY	BACK BOXES INSTALLED BY (NOTE 6)	FLOOR/WALL CORES/SLEEVES BY (NOTE 7)	CONNECTION TO TGB BY	
IT&S SYSTEMS - VOICE/ DATA																
IT&S VOICE EQUIPMENT (WORKSTATION) (NOTE 9)	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A	
IT&S DATA EQUIPMENT (WORKSTATION) (NOTE 9)	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A	
WIRELESS ACCESS POINT (WAP)	OWNER	DIV 27	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A	
IT&S DATA EQUIPMENT (TEC/TDR)	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
IT&S VOICE EQUIPMENT (TEC/TDR)	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
WORKSTATION / EQUIPMENT PATCH CORDS	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
MEDICAL EQUIPMENT NETWORK CONNECTED DEVICES (NOTE 9)	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A	
TIME CLOCK (EMPLOYEE)	OWNER	GC	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A	
NURSE CALL/ CODE BLUE																
STATION DEVICES	NC	NC	NC	DIV 27	DIV 27	NC	NC	NC	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A	
HEADEND CABINET (IF APPLICABLE)	NC	NC	NC	DIV 27	DIV 27	NC	NC	NC	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A	
NETWORK SWITCHES (IF APPLICABLE)	NC	NC	NC	DIV 27	DIV 27	NC	NC	NC	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A	
CALL CORD/ PILLOW SPEAKERS	NC	NC	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
PATCH CORDS	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
CATV SYSTEMS																
COAXIAL CABLE	N/A	N/A	N/A	DIV 27	DIV 27	TV	TV/ DIV 27	TV	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	TV	
DATA CABLE	N/A	N/A	N/A	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A	
CROSS ROOM NURSE CALL CONTROL	TV	TV	TV	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	N/A	DIV 26	DIV 26	DIV 26	N/A	
TV OUTLET COVER PLATE	DIV 27	DIV 27	DIV 27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
TELEVISIONS (PATIENT, WAITING, STAFF LOUNGE, ETC.)	TV	TV	TV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
TELEVISION WALL MOUNTING BRACKET	TV	GC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
CATV EQUIPMENT (SPLITTERS/ COMBINERS/ AMPLIFIERS)	TV	TV	TV	N/A	N/A	N/A	TV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TV	
CROSS CONNECTS/ PATCH CORD	TV	TV	TV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SECURITY SYSTEMS																
NVR/ DVR	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER	
SURVEILLANCE CAMERAS/ MOUNTS/ LICENSES	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A	
NETWORK SWITCHES	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER	
PATCH CORDS	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
ELECTRONIC ACCESS CONTROL SYSTEM	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 26	DIV 28	DIV 26	DIV 26	DIV 26	N/A	
DOOR HARDWARE	DIV 08	DIV 08	DIV 08	DIV 08	DIV 08	DIV 08	DIV 08	N/A	N/A	DIV 26	N/A	DIV 26	DIV 26	N/A	N/A	
WIRELESS PANIC BUTTON (IF APPLICABLE)	PB	PB	PB	N/A	N/A	N/A	PB	PB	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
WIRED PANIC BUTTON (IF APPLICABLE)	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 26	DIV 28	DIV 26	DIV 26	N/A	N/A	
INFANT PROTECTION	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	N/A	
INTRUSION DETECTION	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 26	DIV 28	DIV 26	DIV 26	N/A	N/A	
EMERGENCY (BLUE) PHONE	GC	GC	DIV 26/ 27	DIV 26/ 27	DIV 26/ 27	DIV 26/ 27	DIV 26/ 27	DIV 26/ 27	DIV 26/ 27	DIV 26	DIV 27	DIV 26	DIV 26	N/A	DIV 26	
INTERCOM	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 26	DIV 28	DIV 26	DIV 26	DIV 26	N/A	
OVERHEAD PAGING SYSTEM																
SPEAKERS/ HORNS	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A	
AMPLIFIERS	DIV 27	DIV 27	DIV 27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DIV 27	
VOLUME CONTROL	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A	
TELEPHONE ACCESS EQUIPMENT	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A	
ZONE DISTRIBUTION EQUIPMENT (IF APPLICABLE)	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A	
PATIENT MONITORING SYSTEM																
PHYSIOLOGICAL MONITORING (PM)	PM	PM	PM	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A	
FETAL MONITORING (FM)	PM	PM	PM	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A	
TELEMETRY	PM	PM	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	N/A	
NETWORK SWITCHES	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER	
PATCH CORDS	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
TELECOMMUNICATIONS ROOMS (TEC/ TDR)																
OPEN FRAME EQUIPMENT RACKS (2POST/ 4POST)	DIV 27	DIV 27	DIV 27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DIV 27	
ENCLOSED EQUIPMENT CABINETS	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DIV 27	
BASKET TRAY & SUPPORT HARDWARE	DIV 27	DIV 27	DIV 27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DIV 27	
FIRE RATED PLYWOOD BACKBOARDS	DIV 26	DIV 26	DIV 26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
CABLE MANAGEMENT (VERTICAL/ HORIZONTAL)	DIV 27	DIV 27	DIV 27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DIV 27	
UNINTERRUPTIBLE POWER SUPPLY (UPS)	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
NETWORK SWITCHES, SERVERS, & ADDITIONAL NETWORK GEAR EQUIP.	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER	
TELEPHONE SYSTEM EQUIPMENT	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER	
CROSS CONNECTS/ PATCH CORDS	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
GROUNDING/ BONDING																
TELECOMMUNICATIONS BONDING BACKBONE (TBB)	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	N/A	N/A	DIV 26	DIV 26	
TELECOMMUNICATIONS GROUNDING BUSS BAR (TGB)	DIV 26	DIV 26	DIV 26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
MISC. SYSTEMS																
SYNCHRONIZED CLOCK SYSTEMS	DIV 26 OR 27	DIV 26 OR 27	DIV 26 OR 27	DIV 26 OR 27	DIV 26 OR 27	DIV 26 OR 27	DIV 26 OR 27	DIV 26 OR 27	N/A	N/A	N/A	DIV 26	DIV 26	N/A	N/A	
REAL TIME LOCATING SYSTEM (RTL/ S)	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A	
DISTRIBUTED ANTENNA SYSTEMS (DAS)	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	
EMERGENCY RESPONDER RADIO COMMUNICATIONS (ERRCS)	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	
TEMPERATURE MONITORING SYSTEM	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A	
EMS RADIO	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	N/A	

NOTES:  
1. ALL SYSTEMS SHOWN MAY NOT BE PRESENT IN PROJECT. REFER TO FLOOR PLANS FOR SYSTEMS INCLUDED IN PROJECT.  
2. INCLUDES CONDUIT SLEEVES, NOT TO EXCEED 18 INCHES IN LENGTH, THROUGH GYPSUM PARTITIONS. SLEEVES EXCEEDING 18" IN LENGTH SHALL BE PROVIDED BY DIV 26 CONTRACTOR.  
3. INCLUDES CONDUIT PATHWAY EXCEEDING 18 INCHES IN LENGTH. INCLUDES ALL NECESSARY CONNECTIONS, PULL BOXES, AND PLASTIC BUSHINGS.  
4. INCLUDES PRE-MANUFACTURED FIRE SLEEVE SYSTEMS.  
5. INCLUDES REQUIRED CONDUIT STUB UP TO ABOVE ACCESSIBLE CEILING SPACE.  
6. INCLUDES SLEEVES THROUGH CONCRETE/ MASONRY WALLS REQUIRING CORING OR LEAVE-OUTS.  
7. CROSS ROOM SOUND CABLE TERMINATED BY NURSE CALL VENDOR AT PATIENT STATION. DIV 27 CONTRACTOR SHALL TERMINATE CROSS ROOM SOUND CABLE AT TV OUTLET AND PROVIDE FACEPLATE.  
8. LIGHTING CONTROL CABLE TERMINATED BY NURSE CALL VENDOR AT PATIENT STATION. NURSE CALL VENDOR SHALL PROVIDE DIV 26 CONTRACTOR LIGHTING CONTROL RELAY. DIV 26 CONTRACTOR SHALL CONNECT RELAY WITH LIGHT SYSTEM.  
9. VOICE/ DATA WORKSTATION & MEDICAL EQUIPMENT DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:  
A. PCS  
B. PRINTERS (NETWORK, LASER, MULTIFUNCTION, LAB, SCRIPT, ETC.)  
C. FAX MACHINES  
D. COPYERS  
E. TRACKER MONITORS  
F. TIME CLOCK (EMPLOYEE)  
G. WIRELESS ACCESS POINTS  
H. TELEPHONE SETS  
I. MED DISPENSERS  
J. SCANNERS  
K. LAB EQUIPMENT (STERILIZERS, ETC.)  
L. POINT OF USE (POU) SCANNER  
M. ULTRA SOUND MACHINE  
N. ADDITIONAL MEDICAL EQUIPMENT

ABBREVIATIONS:  
• DIV 08 - DOOR HARDWARE CONTRACTOR  
• DIV 26 - ELECTRICAL CONTRACTOR  
• DIV 27 - COMMUNICATIONS CABLING CONTRACTOR  
• DIV 28 - ELECTRONIC ACCESS CONTROL/ SECURITY CONTRACTOR  
• OWNER - OWNER OR OWNERS VENDOR  
• NC - NURSE CALL VENDOR  
• PB - CENTURIUM PANIC BUTTON VENDOR  
• ME - MEDICAL EQUIPMENT PLANNER  
• TV - TELEVISION VENDOR  
• SP - SERVICE PROVIDER  
• GC - GENERAL CONTRACTOR  
• PM - PHYSIOLOGICAL MONITORING VENDOR  
• N/A - NOT APPLICABLE  
• TEC - TELECOMMUNICATIONS EQUIPMENT ROOM / MDF  
• TDR - TELECOMMUNICATIONS DISTRIBUTION ROOM / IDF



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

Consultant:



300 WYANDOTTE, SUITE 200  
KANSAS CITY, MO 64105



04/18/2025  
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

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

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

FACILITY NUMBER:  
0972400011

AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 04/18/25  
SCALE: 1/8" = 1'-0"  
DRAWN: WSP  
REVIEWED: WSP  
JOB NUMBER: U50040241.3707

SCHEDULES - TECHNOLOGY

T08-01

4/22/2025 1:43:05 PM Autodesk Docs // 64062-24 - HCA - Lee's Summit Medical Center (LSMC) - LSMC ED Expansion - R2 vrt 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.





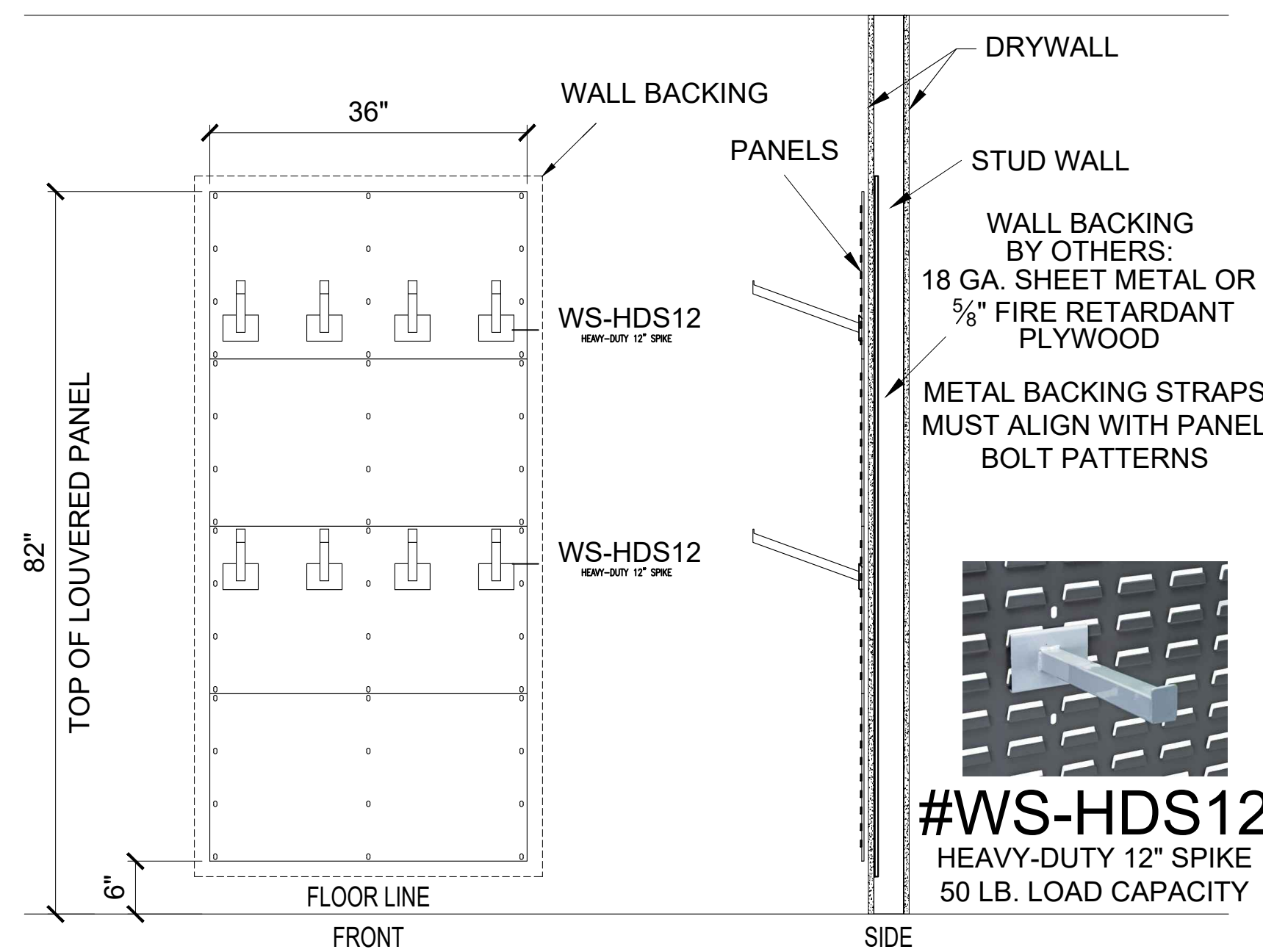


Room
1-1423
1-1442
ALCOVE



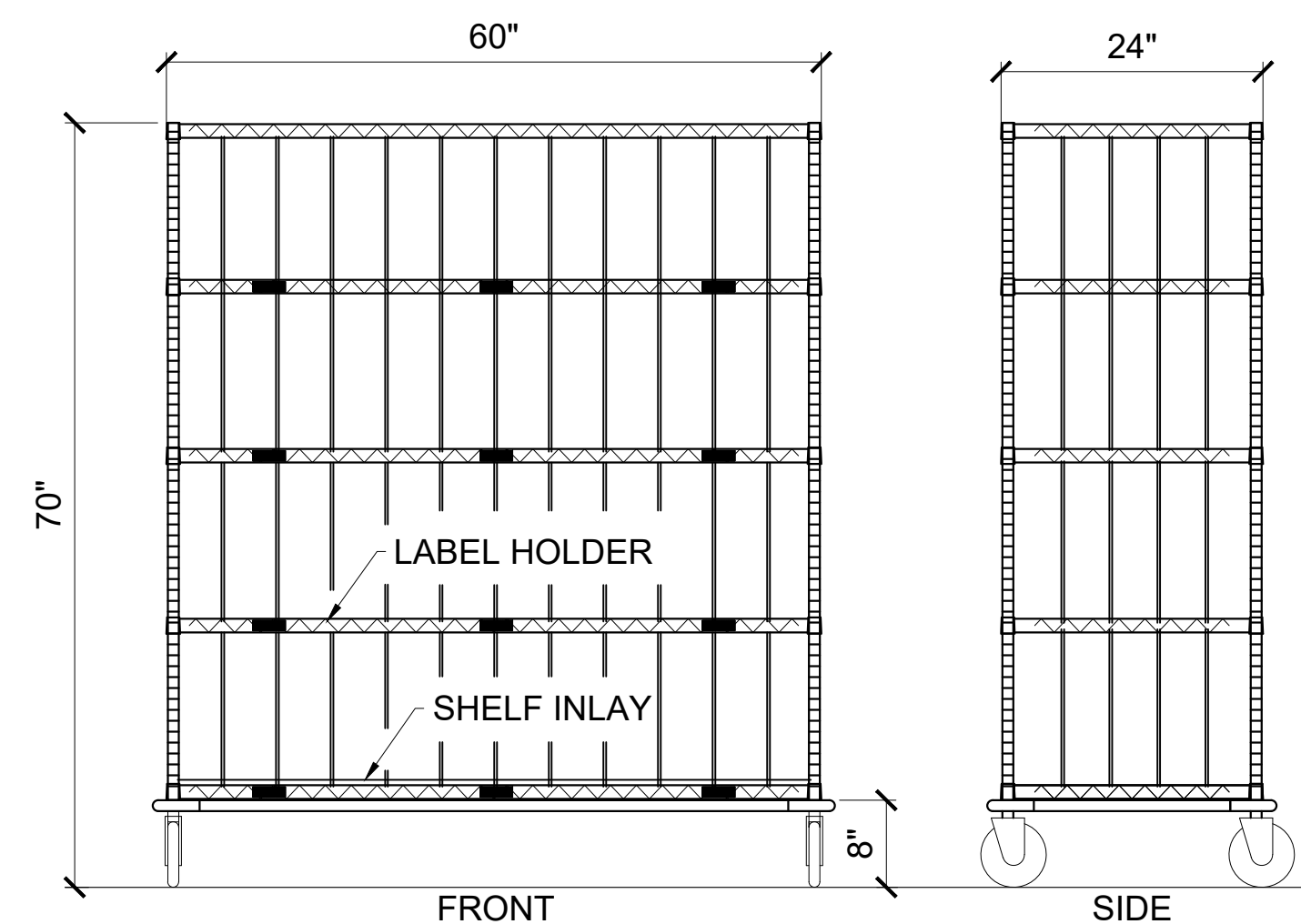
INFUSION PUMP STAND  
6 HOOK, 5-LEG BASE  
STAINLESS STEEL  
PEDIGO

Room
1-1408
1-1409
1-1410
1-1411
1-1412
1-1414
1-1415
1-1418
1-1419
1-1423
1-1426
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1-1431
1-1432
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1-1434
1-1435
1-1436
1-1437
1-1438
1-1439
1-1450
1-1451



FOUR "STACK" OF LOUVERED PANELS 36"W x 19"H EA.  
ELEVATION AND RECOMMENDED MOUNTING DETAILS.  
W/ #WS-HDS12 HEAVY-DUTY 12" SPIKES

Room
1-1449



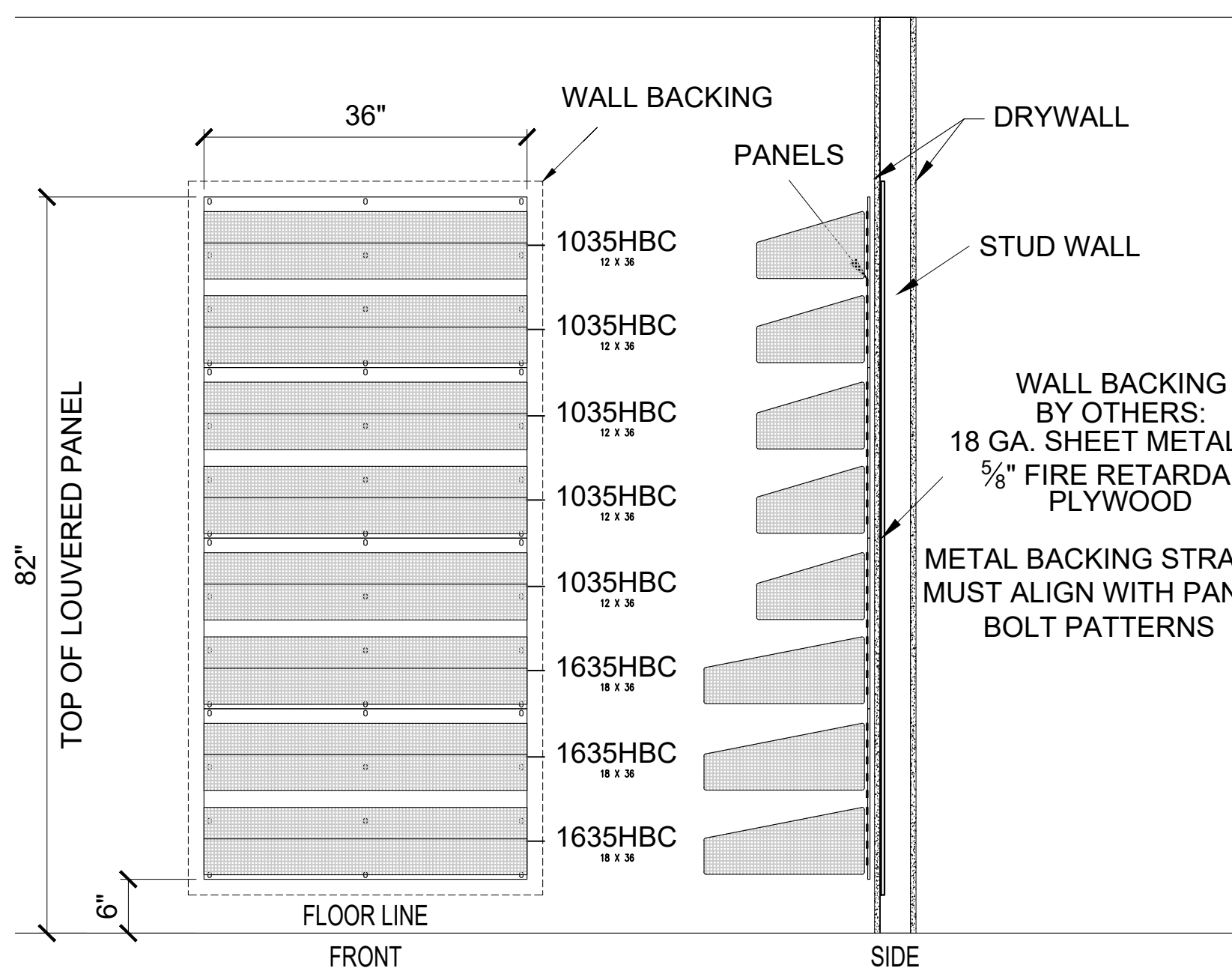
LARGE LINEN CART  
60"L x 24"D x 70"H  
5 SHELVES WITH GUARD,  
COVER & DOLLY BASE

Room
1-1140



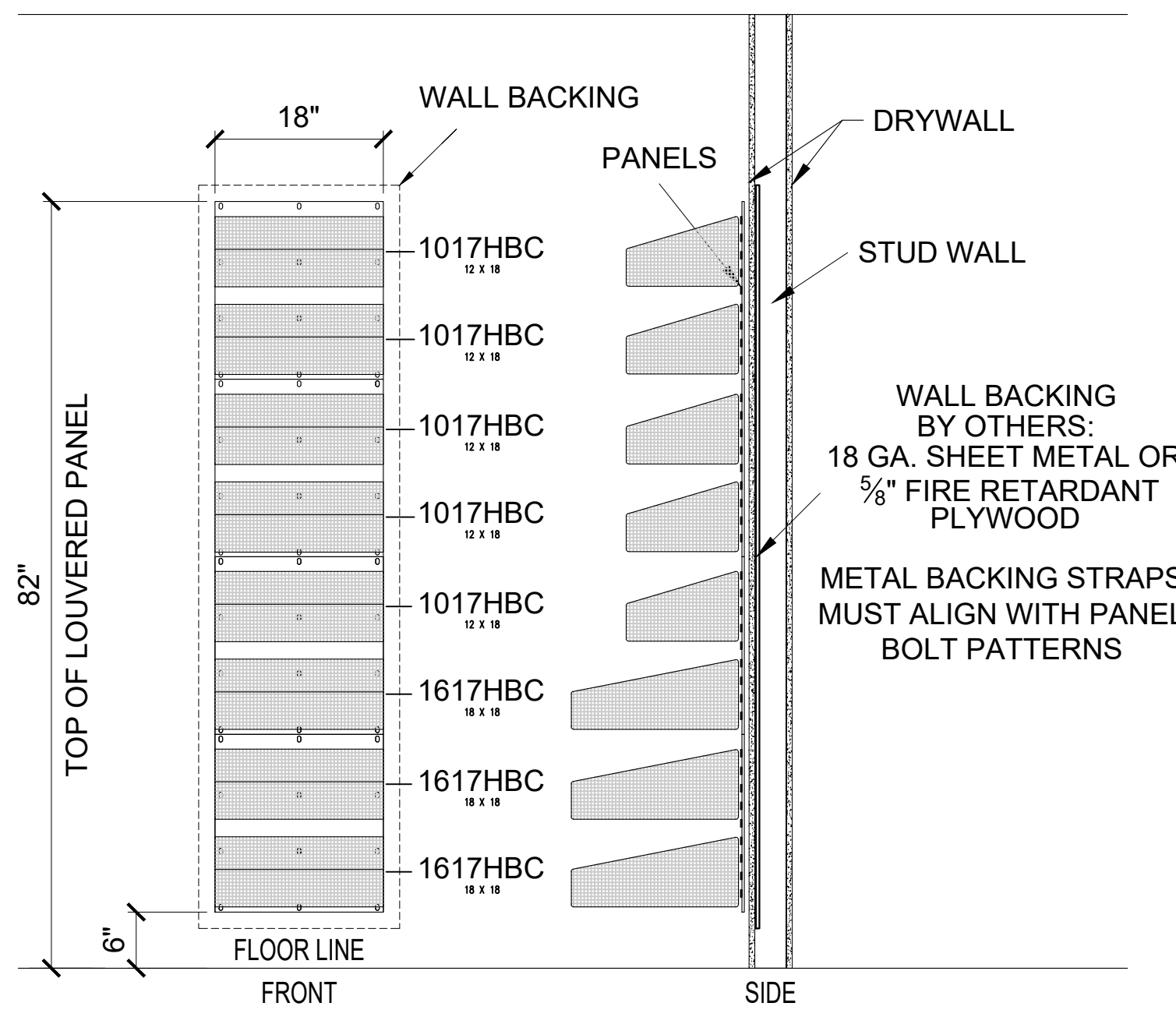
IV WIRE CART  
36"W x 18"D x 69"H  
W/ 5 BASKETS & DIVIDERS

Room
1-1449



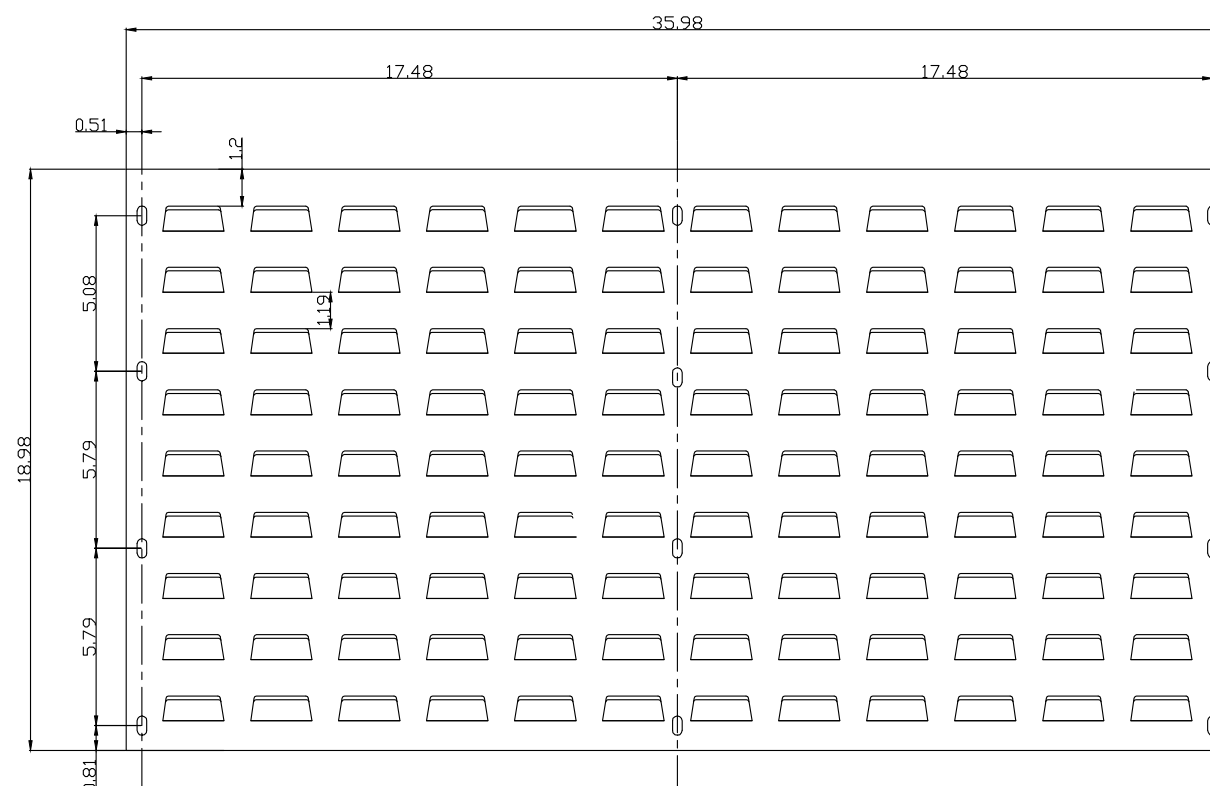
FOUR "STACK" OF LOUVERED PANELS 36"W x 19"H EA.  
ELEVATION AND RECOMMENDED MOUNTING DETAILS.  
W/ WIRE BASKETS, DIVIDERS, & LABEL HOLDERS  
BOTTOM BASKET HAS SHELF LINER

Room
1-1449



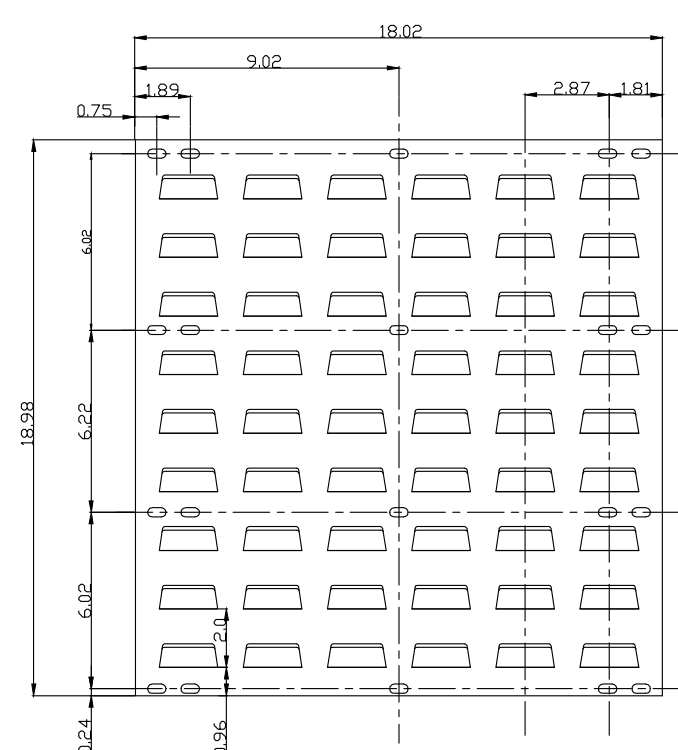
FOUR "STACK" OF LOUVERED PANELS 18"W x 19"H EA.  
ELEVATION AND RECOMMENDED MOUNTING DETAILS.  
W/ WIRE BASKETS, DIVIDERS, & LABEL HOLDERS  
BOTTOM BASKET HAS SHELF LINER

Room
1-1449



EXAMPLE OF THE 36"X19" LOUVERED PANEL  
BOLT PATTERN

Room
1-1449



EXAMPLE OF THE 18"X19" LOUVERED PANEL  
BOLT PATTERN

① VERIFY LOCKER LOCATION TO A HEIGHT OF 84" AFF IS FREE AND CLEAR OF ANY OBSTRUCTIONS SUCH AS; CLOCKS, TELEPHONE JACKS, ELECTRICAL OUTLETS, LIGHT SWITCHES, FIRE ALARMS, THERMOSTATS, CALL BOXES, ETC...

② CLARIFY ALL OBSTRUCTIONS WITH A DESCRIPTION AND

INSTALLER NOTE:

- ① VERIFY CEILING HEIGHTS.
- ② RETURN ALL INFORMATION TO STORAGE SYSTEMS UNLIMITED WITH ANY OTHER PERTINENT INFORMATION.
- ③ VERIFY ALL ROOM DIMENSIONS INCLUDING DOOR OPENINGS, WINDOW OPENINGS, AND COLUMNS.

ARCH FIRM: DEVENNEY GROUP LTD. ARCHITECTS



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SCALE: NTS

SS REV.

FOR  
REFERENCE  
ONLY

LEE'S SUMMIT MEDICAL CENTER  
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063  
ED EXPANSION

ISSUE DATE: 03-25-2025

## ELEVATIONS

QUOTE #: 150244

DRAWING #

SS-2