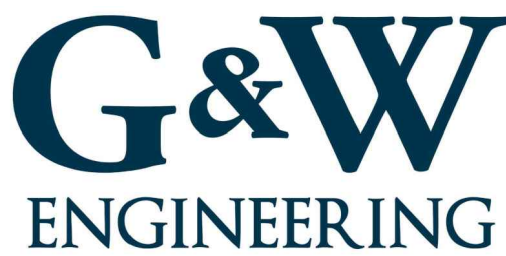


Repairs to Interior/Exterior, Unheated Storage Building

Bellefontaine Readiness Center

St. Louis, Missouri 63136



OWNER:

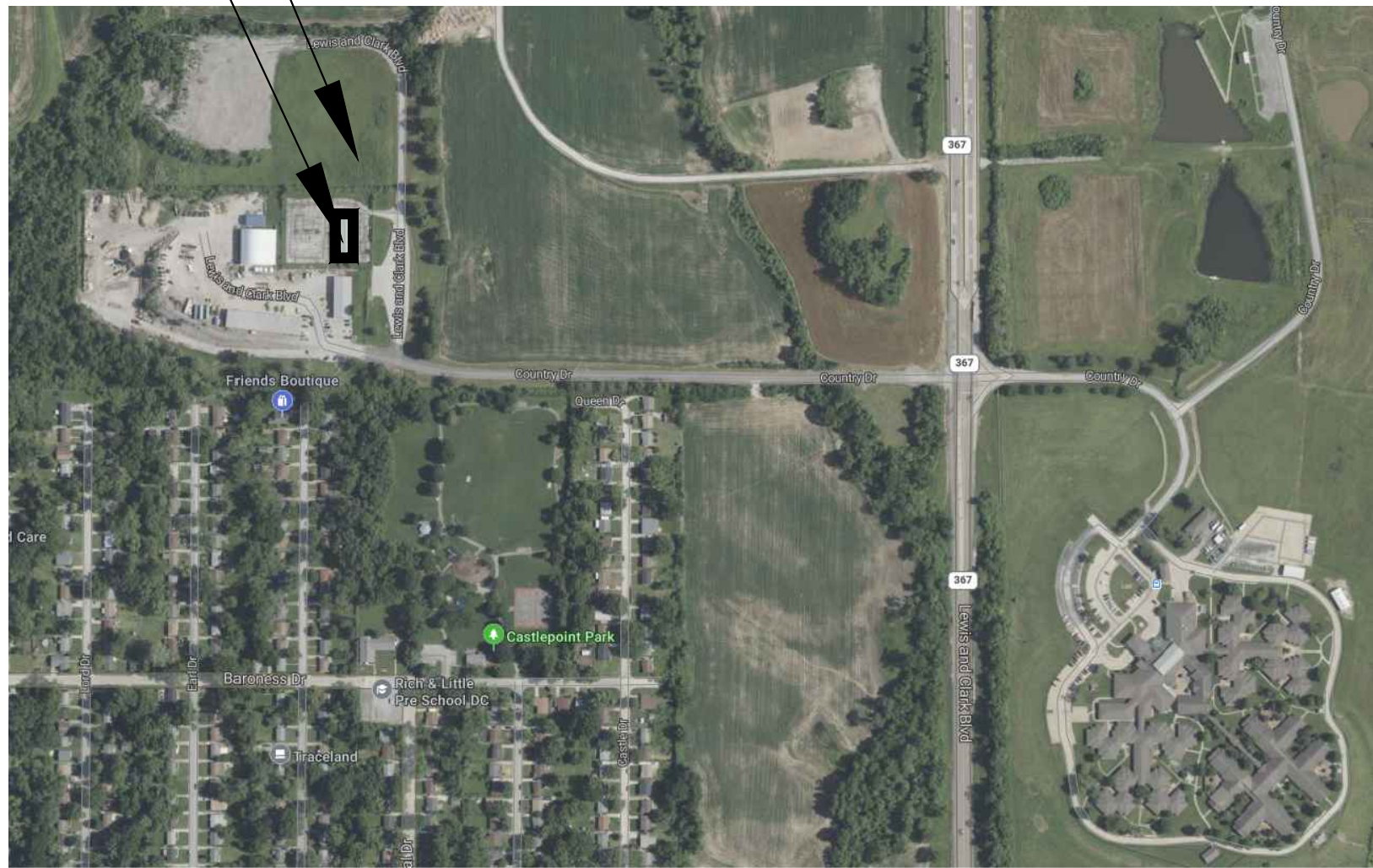
STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

DEPARTMENT OF
MISSOURI NATIONAL GUARD

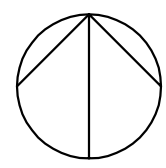
SITE LOCATION
PROJECT BUILDING

PROJECT
MANAGEMENT:

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION



Site Location Map



PLAN NORTH

Project Address: 10625 Lewis & Clark Boulevard, Bellefontaine Neighbors, Missouri 63136

ARCHITECT/ DESIGNER: Kromm, Rikimaru and Johansen, Inc.
9920 Watson Road, Suite 209
St. Louis, Missouri 63126

STRUCTURAL ENGINEER: SSE, Inc.
138 W. Clinton Pl.
St. Louis, Missouri 63122

MECHANICAL ENGINEER/
PLUMBING ENGINEER/
ELECTRICAL ENGINEER: G&W Engineering Corporation
138 Weldon Pkwy,
Maryland Heights, Missouri 63043

PROJECT NUMBER: T2331-01

SITE NUMBER: 6322
FACILITY NUMBER: 7016322002

ISSUE DATE: 7/23/2026

SHEET TITLE:
COVER SHEET

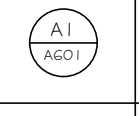
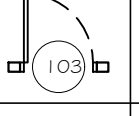
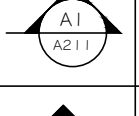
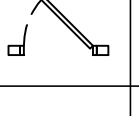
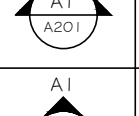
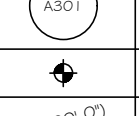
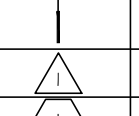
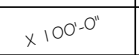
SHEET NUMBER:

G-000

1 OF 32 SHEETS
07/23/2026

ABBREVIATIONS			
ACT	ACOUSTICAL CEILING TILE	INFO	INFORMATION
ADA	AMERICANS WITH DISABILITIES ACT	INSUL	INSULATED
ADD	ADDITIONAL	INT	INTERIOR
AFP	ABOVE FINISH FLOOR	LAM	LAMINATE
AFG	ABOVE FINISH GRADE	LAV	LAVATORY
AJ	ADJUSTABLE/ADJACENT	LGB	LIGHTWEIGHT CONCRETE BLOCK
ALUM	ALUMINUM	LG	LENGTH
AMD	ACOUSTICAL METAL DECK	MANUF	MANUFACTURER
AP	ACCESS PANEL	MAS	MASONRY
APPROX	APPROXIMATE	MAX	MAXIMUM
ARCH	ARCHITECTURAL	MECH	MECHANICAL
AWF	ACOUSTICAL WALL PANELS	MEP	MECHANICAL/ELECTRICAL/PLUMB
BD	BOARD	MFR	MANUFACTURER
BLDG	BUILDING	MH	MANHOLE
BLKG	BLOCKING	MHO	MAGNETIC HOLD OPEN
BM	BENCH MARK	MIN	MINIMUM
BDD	BOTTOM OF DECK	MISC	MISCELLANEOUS
BOS	BOTTOM OF STEEL	MO	MASONRY OPENING
BOT	BOTTOM	MTD	MOUNTED
BR	BRICK	MTL	METAL
BRNG	BEARING	MTRL	MATERIAL
BTWN	BETWEEN	N/A	NOT APPLICABLE
CA	CARPET	NIC	NOT IN CONTRACT
CB	CORNER BRAD	NO	NUMBER
CDK	CARD CONTROL READER	NTS	NOT TO SCALE
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	CC	ON CENTER
CG	CORNER GUARD	CFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CJ	CONTROL JOINT	CFCI	OWNER FURNISHED, OWNER INSTALLED
CL	CENTRILINE	OPNG	OPENING
CLG	CEILING	OPF	OPPOSITE
CMU	CONCRETE MASONRY UNIT	OVHD	OVERHEAD
COL	COLUMN		
COMP	COMPACTED	P	PAINT
CCONC	CONCRETE	PARTL	PARTIAL
CONF	CONFERENCE	PARTN	PARTITION
CONST	CONSTRUCTION	PERIM	PERIMETER
CONT	CONTINUOUS	PLAS	PLASTIC
CSWL	CASEWORK	PLM	PLASTIC LAMINATE
CT	CERAMIC TILE	PLYWD	PLYWOOD
DG	DEGREE	PLUMB	PLUMBING
DEM	DEMOLITION	PP	POWER POLE
DA	DIAMETER	PT	PAVER TILE
DIM	DIMENSION	PVMT	PAVEMENT
DIM PT	DIMENSION PT		
DIST	DISTANCE	QTY	QUANTITY
DN	DOWN	RAD	RADIUS
DOS	DOOR OPENING SIZE	RD	ROOF DRAIN
DS	DOWNSPOUT	RE	REFERENCE
DTL	DETAIL	REBAR	REINFORCING BAR
DWG	DRAWING	REINP	REINFORCED
		REQD	REQUIRED
EA	EACH	RES	RESILIENT
EIS	EXTERIOR INSULATING FINISH SYSTEM	REV	REVISION
EJ	EXPANSION JOINT	R	ROUGH IN
ELEC	ELECTRICAL	RN	RUBBER NOSING
EL	ELEVATION	RO	ROUGH OPENING
ELEM	ELEMENTARY	RTR	RUBBER TREAD & RISER
ELEV	ELEVATOR		
EP	EXP. PAINT	SC	SEALED CONCRETE
EQ	EQUAL	SCHED	SCHEDULE
EQUIP	EQUIPMENT	SHT	SHEET
ETR	EXISTING TO REMAIN	SH	SIMILAR
DWG	ELECTRIC WATER COOLER	SLP	SLOPE
EXIST	EXISTING	SPEC	SPECIFICATIONS
EXP	EXPRESSED	SQ	SQUARE
EXT	EXTERIOR	SS	STAINLESS STEEL
		ST	STAIN
FAB	FLUID APPLIED BASE	STL	STEEL
FAP	FLUID APPLIED FLOORING	STRUCT	STRUCTURE/STRUCTURAL
FD	FLOOR DRAIN		
FDN	FOUNDATION	T&B	TOP AND BOTTOM
FEC	FIRE EXTINGUISHER CABINET	T&G	TONGUE & GROOVE
FF	FINISH FLOOR	TEMP	TEMPERED
FI	FIRE FIREWANT	TERD	TERRAZZO
FILL	FILLER	THRU	THROUGH
FIN	FINISH	TOC	TOP OF CONCRETE
FL	FLOW LINE	TOJ	TOP OF JOIST
FLR	FLOOR	TOM	TOP OF MASONRY
FR	FIRE RATED	TOS	TOP OF STEEL
FRM	FRAME	TP	TOILET PARTITION
FRP	FIBERGLASS REINFORCED POLYESTER	TT	TERRAZZO TILE
FSE	FOOD SERVICE EQUIPMENT	TRF	TYPICAL
FT	FOOT, FEET	TW	TOP OF WALL
FTG	FOOTING		
FV	FIELD VERIFY	UL	UNDERWRITERS LABORATORIES
		UNO	UNLESS NOTED OTHERWISE
GALV	GALVANIZED		
GB	GLAZED BLOCK	VB	VINYL BASE
GC	GENERAL CONTRACTOR	VCT	VINYL COMPOSITION TILE
GEN	GENERAL	VERT	VERTICAL
GFMU	GROUND FACE MASONRY UNIT	VIF	VERIFY IN FIELD
GL	GLASS		
GLD	GLUE LAMINATED BEAM	WI	WITH
GR	GRADE	WC	WATER CLOSET
GRAN	GRANULAR	WO	WOOD
GYP BD	GYP/SUM BOARD	WO	WHERE OCCURS
HC	HANDICAPPED		
HOMD	HARDWOOD		
HWK	HARDWARE		
HGT	HEIGHT		
HK	HOUSEKEEPING		
HM	HOLLOW METAL		
HORIZ	HORIZONTAL		

ARCHITECTURAL SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DRAWING MARK, TOP HALF - INDICATES COORDINATES ON SHEET, BOTTOM HALF - INDICATES ARCHITECTURAL SHEET NUMBER		DOOR NUMBER, NUMBER INDICATES THE DOOR MARK, MULTIPLE DOORS WITHIN A ROOM ARE IDENTIFIED WITH A LETTER AT THE END OF THE DOOR NUMBER.
	SECTION MARK, TOP HALF - INDICATES COORDINATES ON SHEET, BOTTOM HALF - INDICATES ARCHITECTURAL SHEET NUMBER		EXISTING CONSTRUCTION, EXISTING DOORS, WALLS, WINDOWS, SINKS, TOILETS, CABINETS, ETC. APPEAR HALF TONE
	EXTERIOR ELEVATION MARK, TOP HALF - INDICATES COORDINATES ON SHEET, BOTTOM HALF - INDICATES ARCHITECTURAL SHEET NUMBER		
	INTERIOR ELEVATION MARK, TOP HALF - INDICATES COORDINATES ON SHEET, BOTTOM HALF - INDICATES ARCHITECTURAL SHEET NUMBER		PARTITION TYPES, REFER TO ARCHITECTURAL SHEETS WITH PARTITION TYPES FOR WALL CONSTRUCTION
	TEST BORING HOLE, WORK POINT		REVISION TAG WITH REVISION #
	EXISTING ELEVATION		KEYED NOTE
	PROPOSED ELEVATION		INTERIOR OPENING TYPE

GENERAL NOTES

- PRIOR TO BID DATE, ALL BIDDERS SHALL VISIT THE SITE OF WORK AND FAMILIARIZE THEMSELVES WITH ALL SITE & BUILDING CONDITIONS AND WORK DESCRIBED IN THE DOCUMENTS.
- PRIOR TO SUBMITTING THE BID, ALL BIDDERS SHALL BECOME FAMILIAR WITH ALL ASPECTS OF THE DOCUMENTS; DRAWINGS AND PROJECT MANUAL, AND SHALL CAREFULLY REVIEW AND EXAMINE EACH DISCIPLINE TO COORDINATE WORK. BIDDERS ARE TO REQUEST CLARIFICATIONS TO THE DOCUMENTS WHERE INFORMATION IS NOT UNDERSTOOD OR WHERE CONFLICTS EXIST PRIOR TO SUBMITTING BIDS. ANY REQUEST FOR INFORMATION SHOULD BE PRESENTED TO THE ARCHITECT. ALL BIDDERS BY BIDDING, CERTIFY THAT THE DOCUMENTS HAVE BEEN REVIEWED AND BIDDER UNDERSTANDS THE SCOPE OF WORK, COMPLETE LABOR AND MATERIALS & MEANS AND METHODS OF ALL INSTALLATION FOR A COMPLETE AND PROPER INSTALLATION- WHICH IS INCLUDED IN THEIR SUBMITTED BID. ALL REQUEST FOR INFORMATION PRESENTED AFTER A SUBMITTED BID WILL BE REVIEWED AND RESPONDED TO IN FULL BY THE ARCHITECT. NO ADDITIONAL COMPENSATION WILL BE AWARDED FOR FAILURE OF THE BIDDER TO OBTAIN INFORMATION/ CLARIFICATION PRIOR TO BIDDING.
- NOTIFY THE ARCHITECT OF ANY DISCREPANCIES, ERRORS, OMISSIONS, AMBIGUITIES OR CONCERNS PRIOR TO SUBMITTING THE BID.
- IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE ALL BIDS FROM SUB-CONTRACTORS AND VERIFY ALL SCOPE OF WORK HAVE BEEN ACCOUNTED FOR.
- BIDS SHALL BE SUBMITTED BASED ON THE SCHEDULED MATERIAL, EQUIPMENT AND ALL 'BASIS OF DESIGN'. ANY SUBSTITUTION REQUESTS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO BID DATE.
- ALL CONSTRUCTION AND MATERIALS USED SHALL CONFORM TO REQUIREMENTS OF THOSE AGENCIES AND UTILITIES HAVING JURISDICTION.
- CONTINUITY OF EXISTING BUILDING SERVICES AND UTILITIES SERVING ALL FACILITIES SHALL BE MAINTAINED AT ALL TIMES WITHOUT INTERRUPTION EXCEPT WHEN THE GENERAL CONTRACTOR HAS SUBMITTED REQUEST TO THE OWNER AND SCHEDULED A TIME WHEN SUCH EXISTING SERVICES CAN BE ARRANGED TO BE TEMPORARILY DISCONNECTED. ANY AND ALL TEMPORARY CONNECTIONS TO MAINTAIN SERVICES SHALL BE PROVIDED UNTIL FINAL CONNECTIONS CAN BE INSTALLED. THE GENERAL CONTRACTOR SHALL RESTORE ALL SYSTEMS TO THE ORIGINAL FUNCTIONING STATE PRIOR TO WORK.
- NOTES ON THESE DRAWINGS MAY REFERENCE A SPECIFIC DETAIL OR SPECIFICATION SECTION FOR MANUFACTURE'S DETAIL. THE GENERAL CONTRACTOR IS RESPONSIBLE TO REVIEW OTHER RELATED DRAWINGS WHICH ALSO APPLY TO NOTED CONDITIONS.
- ALL WORK SHALL BE DONE IN A MANNER TO MINIMIZE DAMAGE TO ADJACENT SURFACES THAT ARE NOT SHOWN TO BE WORKED ON OR REMOVED. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK NECESSARY TO REPAIR SURFACES AFFECTED BY THE CONTRACTOR'S WORK.
- ANY WORK THAT RESULTS IN EXCESSIVE NOISE, DUST OR DEBRIS MUST BE COORDINATED WITH THE OWNER AT LEAST TWO WORKING DAYS IN ADVANCE.
- INFORMATION ON EXISTING CONDITIONS IS PROVIDED AS A COURTESY. THIS INFORMATION DOES NOT RELIEVE THE GENERAL CONTRACTOR FROM PERFORMING A COMPLETE AND NECESSARY SITE/BUILDING INVESTIGATIVE WORK TO FULLY UNDERSTAND EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
- SCALING DRAWINGS IS DISCOURAGED AND PERFORMED AT THE SOLE RISK OF THE CONTRACTOR.
- THE DRAWINGS REPRESENT THE BUILDING, THEY DO NOT REPRESENT THE MEANS, METHODS, PROCEDURES, TECHNIQUES OR SEQUENCES OF CONSTRUCTION.
- COORDINATE WORK INDICATED IN THE ARCHITECTURAL DRAWINGS WITH WORK INDICATED IN OTHER DISCIPLINE'S DRAWINGS.
- ALL BIDDING INQUIRES SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING AS A BIDDING RFI PRIOR TO THE BID DATE.

DESIGN ALTERNATES

- DESIGN ALTERNATES ARE NOT APPLICABLE TO THIS PROJECT.

DRAWING INDEX

SHEET	SHEET NAME	SHEET NO.
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GENERAL		
G-000	COVER SHEET	SHEET 1 OF 32
G-001	DRAWING INDEX, GENERAL NOTES, LEGENDS	SHEET 2 OF 32
G-002	LIFE SAFETY / CODE PLAN	SHEET 3 OF 32

ARCHITECTURAL		
AD-101	ARCHITECTURAL DEMOLITION FLOOR PLAN	SHEET 4 OF 32
AD-102	ARCHITECTURAL DEMOLITION MEZZANINE PLAN	SHEET 5 OF 32
AD-103	ARCHITECTURAL DEMOLITION CEILING PLAN	SHEET 6 OF 32
AD-104	ARCHITECTURAL DEMOLITION ROOF PLAN	SHEET 7 OF 32
A-100	ARCHITECTURAL SITE PLAN	SHEET 8 OF 32
A-101	ARCHITECTURAL FLOOR PLAN	SHEET 9 OF 32
A-102	ARCHITECTURAL CEILING PLAN	SHEET 10 OF 32
A-103	ARCHITECTURAL ROOF PLAN	SHEET 11 OF 32
A-201	ARCHITECTURAL EXTERIOR ELEVATIONS	SHEET 12 OF 32
A-301	ARCHITECTURAL BUILDING SECTIONS	SHEET 13 OF 32
A-501	ARCHITECTURAL BUILDING DETAILS	SHEET 14 OF 32
A-502	ARCHITECTURAL BUILDING DETAILS	SHEET 15 OF 32
A-601	DOOR SCHEDULE, ROOM SCHEDULE, PARTITION TYPES	SHEET 16 OF 32

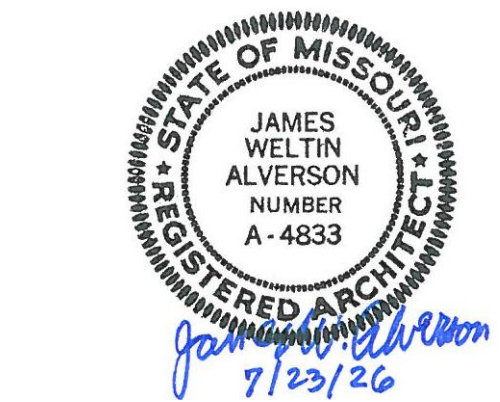
STRUCTURAL		
S-001	STRUCTURAL TYPICAL DETAILS	SHEET 17 OF 32
S-101	STRUCTURAL FOUNDATION PLAN	SHEET 18 OF 32
S-201	STRUCTURAL ELEVATIONS	SHEET 19 OF 32

MECHANICAL		
M-001	MECHANICAL GENERAL NOTES	SHEET 20 OF 32
MD-101	MECHANICAL DEMOLITION PLAN	SHEET 21 OF 32
M-101	MECHANICAL FLOOR PLAN	SHEET 22 OF 32
M-601	MECHANICAL DETAILS & SCHEDULES	SHEET 23 OF 32

PLUMBING		
P-001	PLUMBING GENERAL NOTES	SHEET 24 OF 32
PD-101	PLUMBING DEMOLITION PLAN	SHEET 25 OF 32

ELECTRICAL		
E-001	ELECTRICAL GENERAL NOTES	SHEET 26 OF 32
ED-101	ELECTRICAL DEMOLITION FLOOR PLAN	SHEET 27 OF 32
ED-102	ELECTRICAL DEMOLITION MEZZANINE PLAN	SHEET 28 OF 32
ED-103	ELECTRICAL DEMOLITION CEILING PLAN	SHEET 29 OF 32
E-101	ELECTRICAL FLOOR PLAN	SHEET 30 OF 32
E-102	ELECTRICAL CEILING PLAN	SHEET 31 OF 32
E-601	ELECTRICAL DETAILS & SCHEDULES	SHEET 32 OF 32

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



KRJ Architecture
Building Communities
KROMM, RIKIMARU AND JOHANSEN, INC.
5920 WATSON ROAD, SUITE 209, ST. LOUIS, MO 63126

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
MISSOURI NATIONAL GUARD

REPAIRS TO
INTERIOR/EXTERIOR,
UNHEATED STORAGE
BUILDING
BELLEFONTAINE
READINESS CENTER
10625 LEWIS & CLARK BLVD.
ST. LOUIS, MO 63136

PROJECT # T2331-01
SITE # 6322
FACILITY # 7016322002
-

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 07/23/2026

CAD DWG FILE:T2331-01-6322-G-001
DRAWN BY: TU
CHECKED BY: JA
DESIGNED BY: TU

SHEET TITLE:

DRAWING INDEX,
GENERAL NOTES,
LEGENDS

SHEET NUMBER:

G-001

2 OF 32 SHEETS
07/23/2026

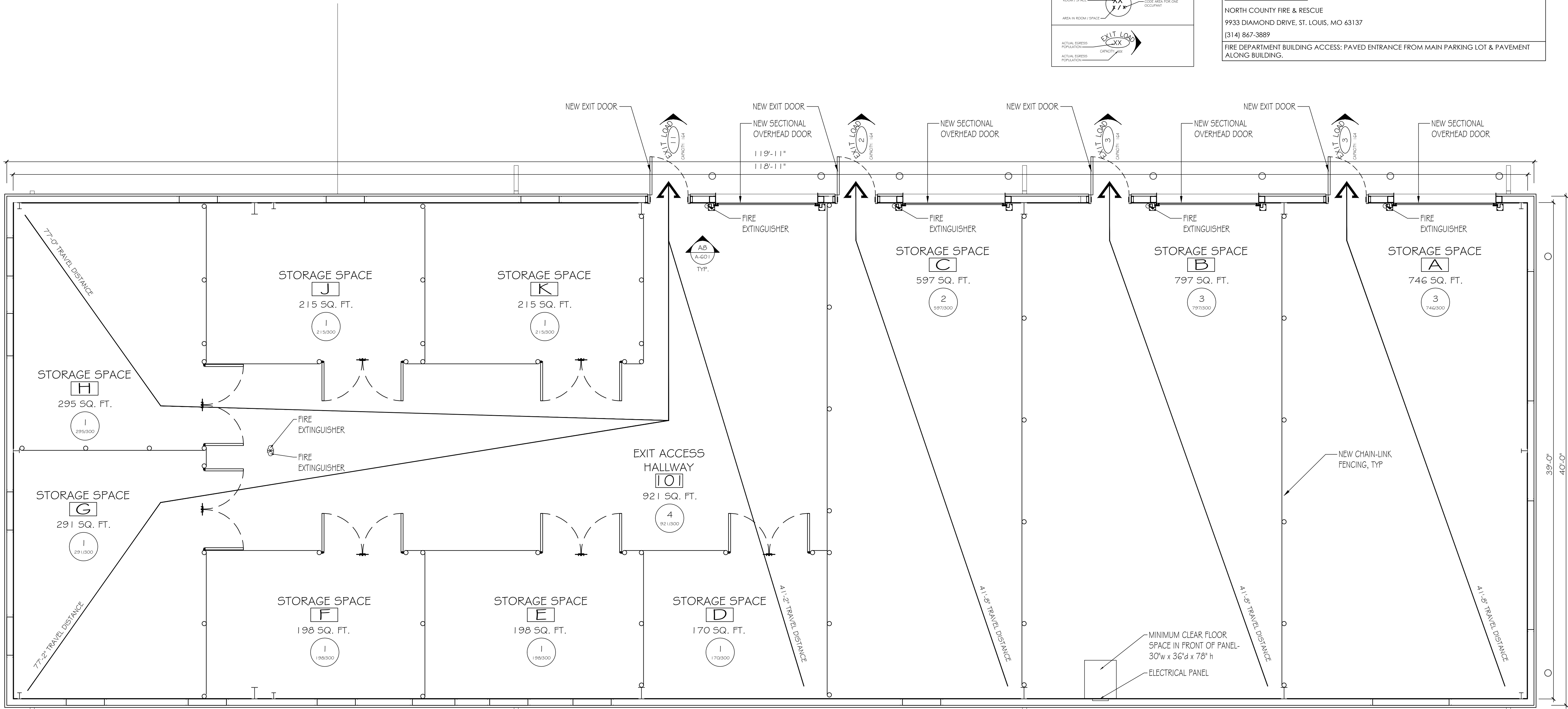
FIRE RESISTANCE RATING REFERENCES				
STRUCTURE ELEMENT	RATING	TEST / REMARKS	SECTION	
EXTERIOR WALLS, LOAD BRG	0		TBL 601	
FIRE BARRIERS - RATING	0		TBL 707.3.10	FACILITY HAS NO FIRE SEPARATIONS.
EXIT STAIR / ENCLOSURES	N/A			
CORRIDORS	0		TBL 1020.2	
BEARING WALLS/ COLUMNS	0		TBL 601	
FLOOR/ CEILING	0		TBL 601	
ROOF	0		TBL 601	
SHAFT ENCLOSURES	N/A			
FIRE EXTINGUISHER (CLASS 'A' FIRE HAZARD)	N/A		906	75 FT MAXIMUM TRAVEL DISTANCE, PROVIDE IN EACH BAY.
FIRE ALARM SYSTEM	NOT REQUIRED		907.2.10	STORAGE ONLY ON ONE STORY.
CODE REVIEW ABBREVIATIONS: IBC - INTERNATIONAL BUILDING CODE IMC - INTERNATIONAL MECHANICAL CODE IPC - INTERNATIONAL PLUMBING CODE NEC - NATIONAL ELECTRIC CODE				

PLUMBING COUNT SUMMARY
NOT APPLICABLE

CODE REVIEW SUMMARY			
BUILDING CODE REFERENCES	NAME/ YEAR	SECTION	NOTES
BUILDING CODE	IBC 2021		
EXISTING BUILDING CODE	IEBC 2021		
MECHANICAL CODE	IMC 2021		
PLUMBING CODE	N/A		
ELECTRICAL CODE	NEC 2020		
ENERGY CODE	N/A		
USE GROUP	S-1	311.2	
FIRE SUPPRESSION SYSTEM	NOT SPRINKLERED	903.2.9	NO SUPPRESSION REQUIRED. FACILITY DESIGN IS BELOW THE FOUR EXEMPTION THRESHOLDS.
CONSTRUCTION TYPE	2B	602	
TABULAR ALLOWABLE AREA	17,500 SF	TBL 506.2	
AREA INCREASE (PERIMETER)	NOT CALCULATED	TBL 506.3	
AREA INCREASE (SPRINKLER)	NOT CALCULATED	TBL 506.2	
BLDG AREA (ALLOW/ ACTUAL)	17,500 SF / 4,800 SF	TBL 506.2	NO FIRE SEPARATIONS ARE REQUIRED.
ALLOWABLE STORIES/ACTUAL	2 STORIES / 1 STORY	TBL 504.4	
HEIGHT INCREASE (SPRINKLER)	NOT CALCULATED	TBL 504.3	
BLDG HEIGHT (ALLOW/ ACTUAL)	55 FT / 20'-0" FT	TBL 504.3	
TRAVEL LENGTH	200 FT (NON-SPRINKLERED)	TBL 1017.2	
OCCUPANT LOAD / EXITS REQUIRED	19	TBL 51006.2.1	1 EXIT FROM EACH BAY

FIRE PROTECTION DISTRICT NORTH COUNTY FIRE & RESCUE 9933 DIAMOND DRIVE, ST. LOUIS, MO 63137 (314) 867-3889 FIRE DEPARTMENT BUILDING ACCESS: PAVED ENTRANCE FROM MAIN PARKING LOT & PAVEMENT ALONG BUILDING.

LEGEND
POPULATION IN ROOM / SPACE AREA IN ROOM / SPACE CODE AREA FOR ONE OCCUPANT ACTUAL EXITS POPULATION CAPACITY ACTUAL EXITS POPULATION

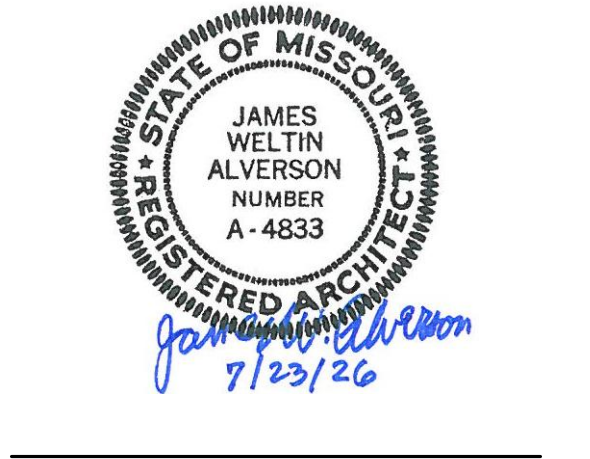


02'4'8'

A4 LIFE SAFETY / CODE PLAN
G-002 1/4"=1'-0"

PLAN NORTH

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



KRJ Architecture
Building Communities
KROMM, RIKIMARU AND JOHANSEN, INC.
9920 WATSON ROAD, SUITE 209, ST. LOUIS, MO 63126

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PROJECT # T2331-01
SITE # 6322
FACILITY # 7016322002
-

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 07/23/2026

CAD DWG FILE:T2331-01-6322-G-002
DRAWN BY: TU
CHECKED BY: JA
DESIGNED BY: JA

SHEET TITLE:
LIFE SAFETY /
CODE PLAN

SHEET NUMBER:
G-002
3 OF 32 SHEETS
07/23/2026

ARCHITECTURAL DEMOLITION FLOOR PLAN KEYED NOTES

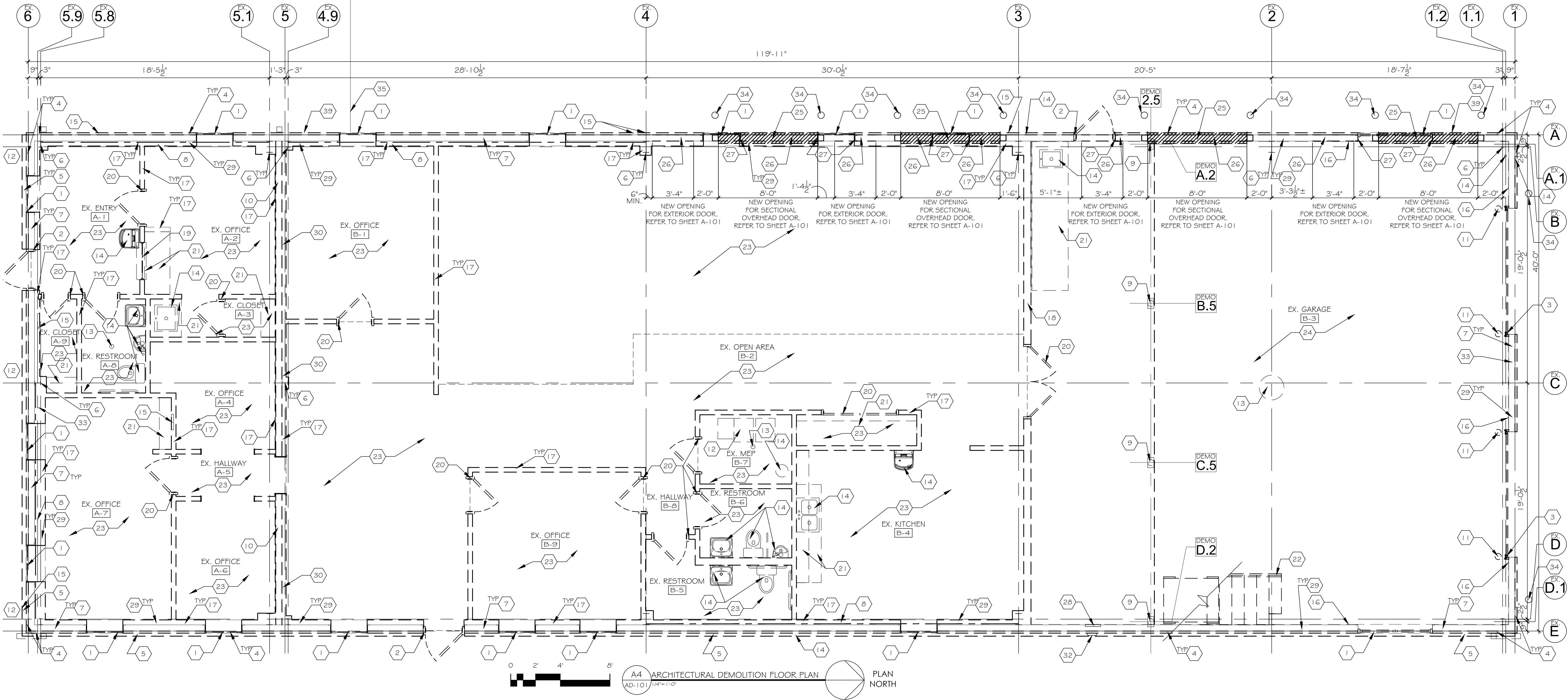
- 1 REMOVE EXISTING EXTERIOR WINDOW SYSTEM COMPLETELY.
- 2 REMOVE EXISTING EXTERIOR DOOR FRAME, DOOR & DOOR HARDWARE COMPLETELY.
- 3 REMOVE EXISTING EXTERIOR SECTIONAL OVERHEAD DOOR TRACK, MOTOR, SUPPORTS, BLOCKING, DOOR & DOOR HARDWARE COMPLETELY.
- 4 REMOVE EXISTING EXTERIOR METAL BUILDING WALL PANELS, TRIM AND FLASHING COMPLETELY.
- 5 REMOVE EXISTING EXTERIOR MASONRY BRICK, FLASHING, AND ACCESSORIES COMPLETELY. REMOVE MASONRY MORTAR OFF EXISTING FOUNDATION.
- 6 EXISTING METAL BUILDING RIGID FRAME, CORNER COLUMNS, RAFTERS, AND ALL STRUCTURAL COMPONENTS TO REMAIN, UNLESS NOTED OTHERWISE.
- 7 EXISTING METAL BUILDING GIRTS TO REMAIN.
- 8 EXISTING METAL BUILDING STRUCTURE X-BRACING TO REMAIN. FIELD VERIFY LOCATIONS.
- 9 REMOVE EXISTING MEZZANINE STEEL COLUMNS, BASE PLATES AND STEEL BEAM COMPLETELY. REFER TO SHEET AD-102 FOR ADDITIONAL INFORMATION.
- 10 REMOVE EXISTING METAL BUILDING GIRT/BASE GIRT-CHANNEL, ALONG STRUCTURAL GRID 'S' / '5.1' FOR FULL WIDTH (EAST-WEST) OF BUILDING, THIS LOCATION ONLY. SEE STRUCTURAL DWGS FOR ADDITIONAL INFORMATION.
- 11 REMOVE EXISTING INTERIOR CONCRETE BOLLARDS. CUT BOLLARD OFF FLUSH WITH TOP OF EXISTING CONCRETE SLAB.
- 12 REMOVE ALL VEGETATION FROM FACE OF BUILDING ALONG THE SOUTH ELEVATION & SOUTHEAST & SOUTHWEST CORNERS.
- 13 REMOVE EXISTING FLOOR DRAIN COVER/STRAINER. PREP AND SEAL OFF PIPE. SEE SHEET A-101 & PLUMBING DWGS.
- 14 REMOVE EXISTING PLUMBING FIXTURES COMPLETELY. REFER TO PLUMBING DEMOLITION DWG FOR ADDITIONAL INFORMATION.
- 15 REMOVE EXISTING ELECTRICAL PANEL, ELECTRICAL EQUIPMENT, DEVICES, DISCONNECTS AND WIRING COMPLETELY. REFER TO ELECTRICAL DWGS FOR ADDITIONAL INFORMATION.
- 16 REMOVE EXISTING INTERIOR WALL SHEATHING, BACK TO EXISTING GIRTS.
- 17 REMOVE EXISTING PARTITION COMPLETELY. REMOVE BLOCKING AT EXISTING COLUMNS.
- 18 REMOVE EXISTING INTERIOR PARTITION COMPLETELY. COORDINATE REMOVAL WITH DEMOLITION OF EXISTING MEZZANINE AND ALL MEZZANINE SUPPORTS.

ARCHITECTURAL DEMOLITION FLOOR PLAN KEYED NOTES (CONT.)

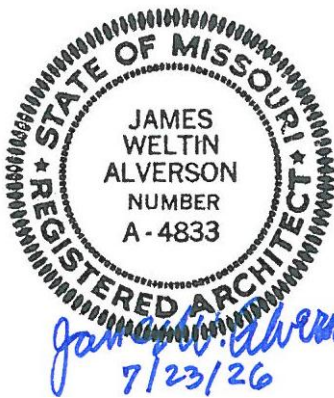
- 19 REMOVE EXISTING INTERIOR WINDOW SYSTEM COMPLETELY.
- 20 REMOVE EXISTING INTERIOR DOOR FRAME, DOOR & DOOR HARDWARE COMPLETELY.
- 21 REMOVE EXISTING CASEWORK, CABINETS, MILLWORK AND TRIMS COMPLETELY.
- 22 REMOVE EXISTING WOODEN STAIR, SUPPORTS, HANDRAIL AND SHELF.
- 23 REMOVE EXISTING FLOORING AND WALL BASE COMPLETELY DOWN TO CONCRETE SLAB.
- 24 EXISTING EXPOSED CONCRETE SLAB TO REMAIN.
- 25 PREP EXISTING PORTION OF CONCRETE FLOOR SLAB FOR FLOWABLE MORTAR PRODUCT PER SECTION 039300. SEE DETAIL D7/A-502 AND DETAIL C8/A-502.
- 26 REMOVE PORTION OF EXISTING BASE GIRT AND WALL GIRT FOR NEW OPENING. REFER TO STRUCTURAL DWGS AND DOOR SCHEDULE FOR ADDITIONAL INFORMATION. CUT EXISTING METAL BUILDING VINYL/SCRM-FACED INSULATION.
- 27 REMOVE EXISTING CHANNEL FOR NEW OPENING. REFER TO STRUCTURAL DWGS FOR ADDITIONAL INFORMATION.
- 28 REMOVE EXISTING ELECTRICAL PANEL. REFER TO ELECTRICAL DWGS FOR ADDITIONAL INFORMATION. MAINTAIN EXISTING MAIN SERVICE FOR NEW ELECTRICAL PANEL.
- 29 REMOVE EXISTING BATT INSULATION AT EXTERIOR WALL CAVITY. EXISTING METAL BUILDING VINYL/SCRM- FACED INSULATION TO REMAIN AT GIRT CAVITY.
- 30 REMOVE EXISTING BATT & METAL BUILDING VINYL/SCRM-FACED INSULATION AT GIRT CAVITY, LENGTH OF WALL.
- 31 REMOVE EXISTING SECURITY DEVICE AND ASSOCIATED WIRING.
- 32 EXISTING ELECTRICAL UTILITY METER AND ASSOCIATED CONDUIT/WIRING TO REMAIN AT LOCATION. PROVIDE TEMPORARY SUPPORT(S) DURING DEMOLITION AND CONSTRUCTION.
- 33 REMOVE SELECT AREA OF EXISTING METAL BUILDING VINYL/SCRM-FACED INSULATION, AS NECESSARY, FOR INSTALLATION OF MECHANICAL LOUVER & EXHAUST FAN. PROVIDE NEW LIGHT-GAUGE METAL FRAMING. REFER TO DETAIL A8/A-502 FOR ADDITIONAL INFORMATION.
- 34 EXISTING BOLLARD TO REMAIN, TYP. PROTECT DURING DEMOLITION.
- 35 EXISTING CURB TO REMAIN.

GENERAL DEMOLITION NOTES

- A. FINISH FLOOR ELEVATION: 1 00'-0" (544.50"). PER BELLEFONTAINE READINESS CENTER (PROJECT NO. T2150-01).
- B. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS & DIMENSIONS SHOWN AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF ANY WORK.
- C. REFERENCE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND RELATED DEMOLITION WORK.
- D. ALL EXISTING ELEMENTS NOT INDICATED TO BE REMOVED SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.
- E. ALL EXISTING SURFACES/ELEMENTS DISTURBED OR DAMAGED DURING THE COURSE OF DEMOLITION & CONSTRUCTION SHALL BE PATCHED/REPAIRED/REFINISHED OR REPLACED AS REQUIRED TO MATCH EXISTING ADJACENT CONSTRUCTION.
- F. THESE DRAWINGS DO NOT DECLARE OR INTEND TO IDENTIFY EACH ITEM REQUIRING DEMOLITION. CAREFULLY REMOVE/RELOCATE ALL ITEMS IN CONFLICT WITH NEW CONSTRUCTION PRIOR TO DEMOLITION.
- G. NOTE NOT USED.
- H. INFILL & PATCH EXISTING CONCRETE SLAB TO MATCH ADJACENT SURFACE WHERE ANCHORING ITEMS, CONDUIT OR PLUMBING PIPES ARE TO BE REMOVED.
- I. REMOVE ALL CONDUIT, WIRING, ELECTRICAL BOXES AND ASSOCIATED MATERIAL BACK TO SOURCE. REFER TO ELECTRICAL DWGS FOR ADDITIONAL INFORMATION.



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ST. LOUIS, MO 63136

PROJECT # T2331-01
SITE # 6322
FACILITY # 7016322002
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REVISION:
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DATE:
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ISSUE DATE: 07/23/2026

CAD DWG FILE:T2331-01-6322-AD-101
DRAWN BY: TU
CHECKED BY: JA
DESIGNED BY: TU

SHEET TITLE:
ARCHITECTURAL
DEMOLITION
FLOOR PLAN

SHEET NUMBER:

AD-101

4 OF 32 SHEETS
07/23/2026

ARCHITECTURAL DEMOLITION MEZZANINE PLAN KEYED NOTES

- 1

REMOVE EXISTING MEZZANINE COMPLETELY.
- 2

REMOVE EXISTING INTERIOR WALL SHEATHING, BACK TO EXISTING GIRTS.
- 3

REMOVE EXISTING EXTERIOR SECTIONAL OVERHEAD DOOR TRACK, MOTOR, SUPPORTS, BLOCKING, DOOR & DOOR HARDWARE COMPLETELY.
- 4

REMOVE EXISTING EXTERIOR METAL BUILDING WALL PANELS, TRIM AND FLASHING COMPLETELY.
- 5

REMOVE EXISTING SECURITY & COMMUNICATION PANELS, DATA RACKS, INTERNET DEVICES AND BOARDS, INCLUDING ALL WIRING. REFER TO ELECTRICAL DWGS FOR ADDITIONAL INFORMATION.
- 6

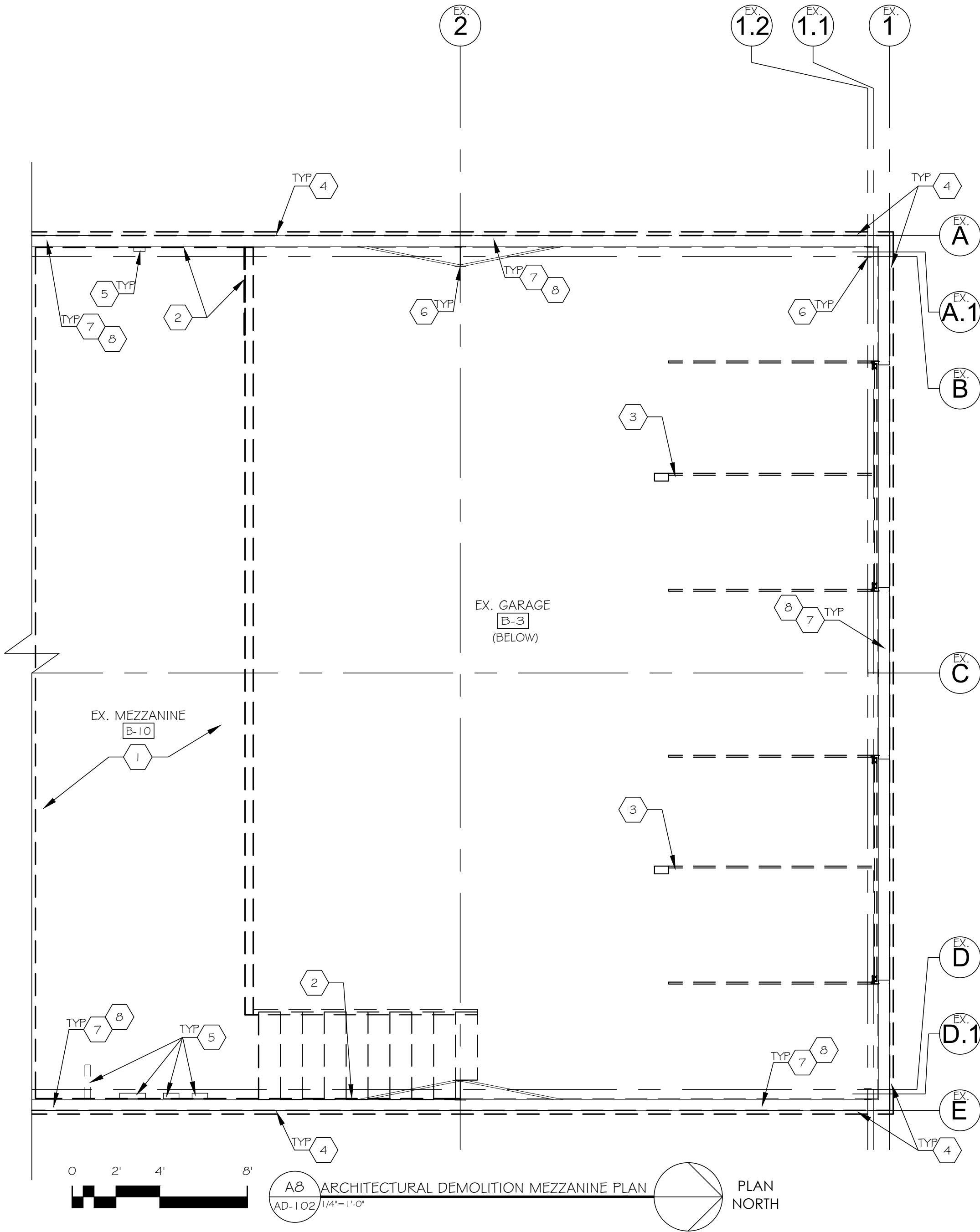
EXISTING METAL BUILDING RIGID FRAME, CORNER COLUMNS, RAFTERS, AND ALL STRUCTURAL COMPONENTS TO REMAIN, UNLESS NOTED OTHERWISE.
- 7

EXISTING METAL BUILDING GIRTS TO REMAIN, U.N.O.
- 8

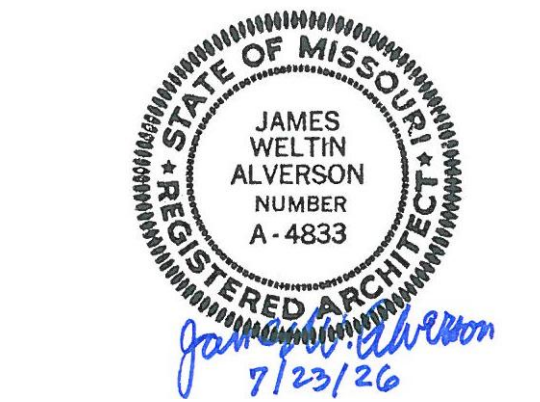
EXISTING METAL BUILDING VINYL/SCRM-FACED INSULATION, AT GIRT CAVITY, TO REMAIN.

GENERAL DEMOLITION NOTES

- A. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS & DIMENSIONS SHOWN AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF ANY WORK.
- B. REFERENCE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND RELATED DEMOLITION WORK.
- C. ALL EXISTING ELEMENTS NOT INDICATED TO BE REMOVED SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.
- D. ALL EXISTING SURFACES/ELEMENTS DISTURBED OR DAMAGED DURING THE COURSE OF DEMOLITION & CONSTRUCTION SHALL BE PATCHED/REPAIRED/REFINISHED OR REPLACED AS REQUIRED TO MATCH EXISTING ADJACENT CONSTRUCTION.
- E. THESE DRAWINGS DO NOT DECLARE OR INTEND TO IDENTIFY EACH ITEM REQUIRING DEMOLITION. CAREFULLY REMOVE/RELOCATE ALL ITEMS IN CONFLICT WITH NEW CONSTRUCTION PRIOR TO DEMOLITION.
- F. NOTE NOT USED.
- G. NOTE NOT USED.
- H. INFILL & PATCH EXISTING CONCRETE SLAB TO MATCH ADJACENT SURFACE WHERE ANCHORING ITEMS, CONDUIT OR PLUMBING PIPES ARE TO BE REMOVED.
- I. REMOVE ALL CONDUIT, WIRING, ELECTRICAL BOXES AND ASSOCIATED MATERIAL BACK TO SOURCE. REFER TO ELECTRICAL DWGS FOR ADDITIONAL INFORMATION.



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PROJECT # T2331-01
SITE # 6322
FACILITY # 7016322002
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ARCHITECTURAL
DEMOLITION
MEZZANINE PLAN

SHEET NUMBER:

AD-102

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07/23/2026

- 1 REMOVE EXISTING SUSPENDED CEILING SYSTEM COMPLETELY.
- 2 REMOVE EXISTING PROTECTIVE CANOPY COMPLETELY.
- 3 REMOVE EXISTING MECHANICAL EQUIPMENT COMPLETELY. REMOVE UNISTRUT OR OTHER SUPPORTS FROM EXISTING FURLINS. REFER TO MECHANICAL DWGS. FOR ADDITIONAL INFORMATION.
- 4 REMOVE EXISTING MECHANICAL CEILING DEVICES COMPLETELY. REFER TO MECHANICAL DWGS. FOR ADDITIONAL INFORMATION.
- 5 REMOVE EXISTING PLUMBING EQUIPMENT COMPLETELY. REFER TO PLUMBING DWGS. FOR ADDITIONAL INFORMATION.
- 6 REMOVE EXISTING ELECTRICAL CEILING/WALL DEVICES COMPLETELY. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFORMATION.
- 7 EXISTING METAL BUILDING RIGID FRAME, CORNER COLUMNS, RAFTERS, AND ALL STRUCTURAL COMPONENTS TO REMAIN, UNLESS NOTED OTHERWISE.
- 8 EXISTING METAL BUILDING STRUCTURE X-BRACING TO REMAIN. FIELD VERIFY LOCATIONS.
- 9 LINE OF EXISTING MEZZANINE FLOOR SHOWN FOR REFERENCE.
- 10 EXISTING METAL BUILDING ROOF INSULATION TO REMAIN. TYP. NOTE: EXISTING METAL BUILDING ROOF INSULATION TO REMAIN AT ALL LOCATIONS.
- 11 REMOVE EXISTING INSULATION, ABOVE SUSPENDED CEILING, COMPLETELY.
- 12 REMOVE EXISTING UNISTRUT, ANCHORING, CLIPS, PAN AND ASSOCIATED SUPPORTS FOR REMOVED MECHANICAL UNIT ABOVE CEILING.
- 13 EXISTING METAL BUILDING VINYL/SCRIM- FACED INSULATION TO REMAIN AT GIRT CAVITY.

- A. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS & DIMENSIONS SHOWN AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF ANY WORK.
- B. REFERENCE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND RELATED DEMOLITION WORK.
- C. ALL EXISTING ELEMENTS NOT INDICATED TO BE REMOVED SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.
- D. ALL EXISTING ELEMENTS DISTURBED OR DAMAGED DURING THE COURSE OF DEMOLITION & CONSTRUCTION SHALL BE PATCHED/REPAIRED/REFINISHED OR REPLACED AS REQUIRED TO MATCH EXISTING ADJACENT CONSTRUCTION.
- E. THESE DRAWINGS DO NOT DECLARE OR INTEND TO IDENTIFY EACH ITEM REQUIRING DEMOLITION. CAREFULLY REMOVE/RELOCATE ALL ITEMS IN CONFLICT WITH NEW CONSTRUCTION PRIOR TO DEMOLITION.
- F. NOTE NOT USED.
- G. REMOVE ALL EXISTING CONDUIT, WIRING, ELECTRICAL BOXES AND ASSOCIATED MATERIAL BACK TO SOURCE. REFER TO ELECTRICAL DWGS FOR ADDITIONAL INFORMATION.
- H. REMOVE ALL EXISTING WOOD BLOCKING FROM EXISTING METAL BUILDING STRUCTURE.



PLAN
NORTH

OF 32 SHEETS
7/23/2026

ARCHITECTURAL DEMOLITION ROOF PLAN KEYED NOTES

- 1

REMOVE EXISTING METAL ROOF PANELS COMPLETELY.
- 2

REMOVE EXISTING GUTTER, FASCIA AND ROOF TRIM COMPLETELY.
- 3

REMOVE EXISTING DOWNSPOUT COMPLETELY.
- 4

REMOVE EXISTING PROTECTIVE CANOPY COMPLETELY.
- 5

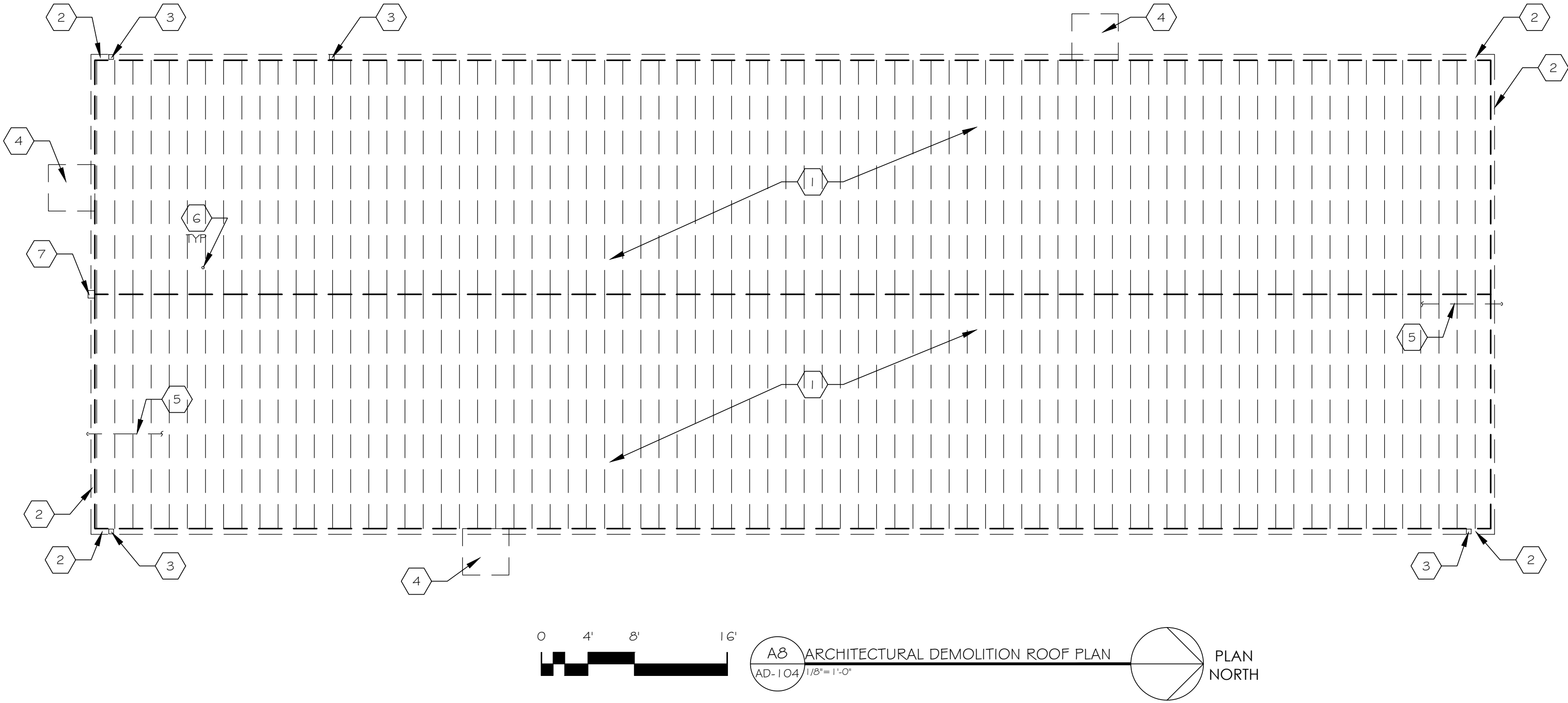
REMOVE EXISTING GAS PIPE COMPLETELY BACK TO EXIST GAS METER LOCATED ON THE SOUTH SIDE OF THE BUILDING.
- 6

REMOVE EXISTING ROOF VENT-THROUGH PIPE COMPLETELY. REFER TO PLUMBING DWGS FOR ADDITIONAL INFORMATION.
- 7

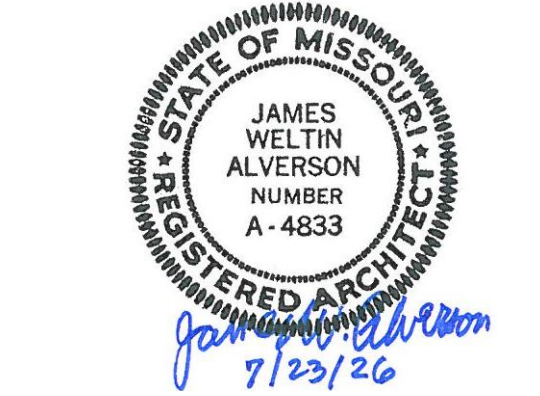
REMOVE EXISTING ANTENNA COMPLETELY. REFER TO ELECTRICAL DWGS FOR ADDITIONAL INFORMATION.

GENERAL DEMOLITION NOTES

- A. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS & DIMENSIONS SHOWN AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF ANY WORK.
- B. REFERENCE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND RELATED DEMOLITION WORK.
- C. ALL EXISTING ELEMENTS NOT INDICATED TO BE REMOVED SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.
- D. ALL EXISTING SURFACES/ELEMENTS DISTURBED OR DAMAGED DURING THE COURSE OF DEMOLITION & CONSTRUCTION SHALL BE PATCHED/REPAIRED/REFINISHED OR REPLACED AS REQUIRED TO MATCH EXISTING ADJACENT CONSTRUCTION.
- E. THESE DRAWINGS DO NOT DECLARE OR INTEND TO IDENTIFY EACH ITEM REQUIRING DEMOLITION. CAREFULLY REMOVE/RELOCATE ALL ITEMS IN CONFLICT WITH NEW CONSTRUCTION PRIOR TO DEMOLITION.



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PROJECT # T2331-01
SITE # 6322
FACILITY # 7016322002
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REVISION: _____
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CHECKED BY: JA
DESIGNED BY: TU

SHEET TITLE:
ARCHITECTURAL
DEMOLITION
ROOF PLAN

SHEET NUMBER:

AD-104

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07/23/2026

ARCHITECTURAL SITE PLAN KEYED NOTES

- 1

BUILDING EXTENTS FOR PROJECT. SEE DEMOLITION AND FLOOR PLANS FOR ADDITIONAL INFORMATION.
- 2

NEW STANDING SEAM METAL ROOF - SHEET METAL DOWNSPOUT. DAYLIGHT DOWNSPOUT TO PAVEMENT/GRADE. REFER TO ARCHITECTURAL ROOF PLAN FOR LOCATIONS OF DOWNSPOUTS.
- 3

EXISTING BOLLARD TO REMAIN. PROTECT DURING CONSTRUCTION.
- 4

PROVIDE SHEET METAL DOWNSPOUT EXTENSION, 2'-0" FROM BUILDING.
- 5

EXISTING BUILDING FOUNDATION TO REMAIN. FIELD VERIFY EXTENTS.
- 6

EXISTING HARDSCAPE & LANDSCAPE WORK AROUND AND UP TO BUILDING FOUNDATION TO REMAIN.
- 7

EXISTING ELECTRICAL UTILITY METER AND SERVICE TO REMAIN AT THIS LOCATION. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFORMATION.
- 8

EXISTING PARKING LOT, SITE FENCING, LIGHT POLES, SIDEWALKS AND OTHER SITE CONDITIONS TO REMAIN.
- 9

EXISTING METER AND SERVICE TO REMAIN. REFER TO MECHANICAL DWGS. FOR ADDITIONAL INFORMATION.
- 10

PATCH AND REPAIR GRASS/LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION. COORDINATE TIME AND GROUND COVER TYPE FOR REPAIRS WITH OWNER.
- 11

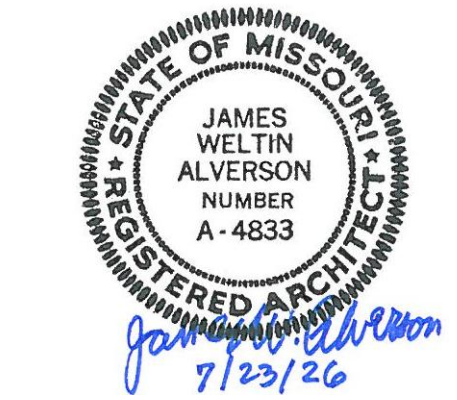
DISCONNECT AND REMOVE EXISTING ELECTRICAL UTILITY METER AND SERVICE. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFORMATION. COORDINATE WORK WITH OWNER AND UTILITY COMPANY.
- 12

DISCONNECT AND REMOVE EXIST TELECOMMUNICATION UTILITY PEDESTAL/BOX AND ASSOCIATED WIRING. COORDINATE WORK WITH OWNER AND UTILITY COMPANY.

GENERAL SITE PLAN NOTES

- A. FINISH FLOOR ELEVATION: 100'-0" (544.50'). PER BELLEFONTAINE READINESS CENTER (PROJECT NO. T2150-01).
- B. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS & DIMENSIONS SHOWN AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF ANY WORK.
- C. PROJECT EXTENTS INCLUDES THE EXTERIOR METAL PANELS, DOWNSPOUTS & DOWNSPOUT EXTENSIONS. SEE PLANS FOR ADDITIONAL INFORMATION. ALL PAVEMENT, GROUND COVER WORK UP TO THE BUILDING'S EXISTING FOUNDATION IS TO BE COMPLETED BY OTHERS, INCLUDING THE EXTERIOR BOLLARDS (N.I.C.).

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PROJECT # T2331-01
SITE # 6322
FACILITY # 7016322002
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DATE: _____

ISSUE DATE: 07/23/2026

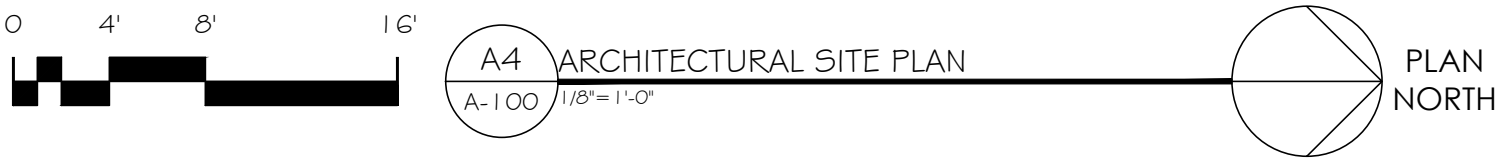
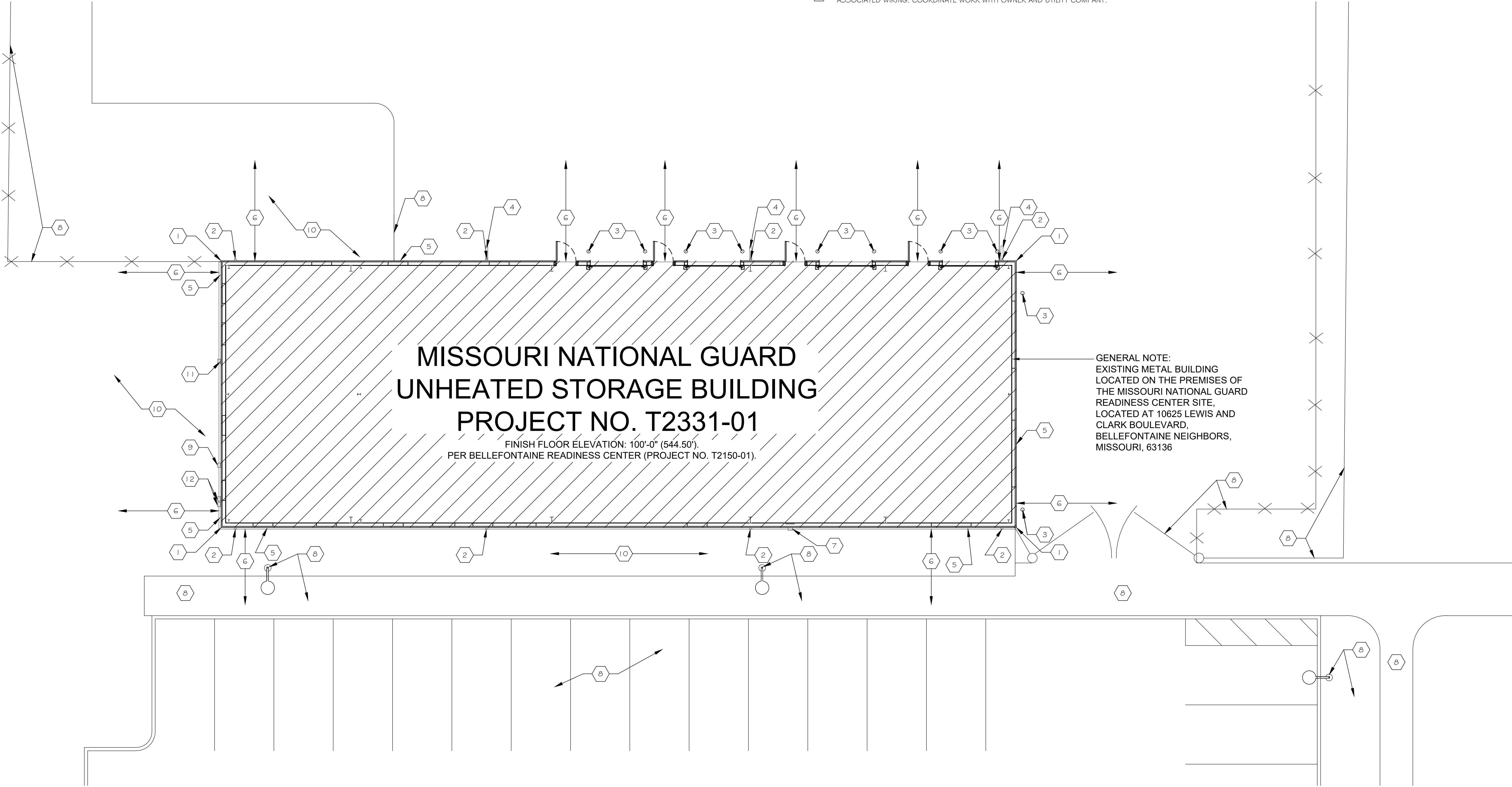
CAD DWG FILE: T2331-01-6322-A-100
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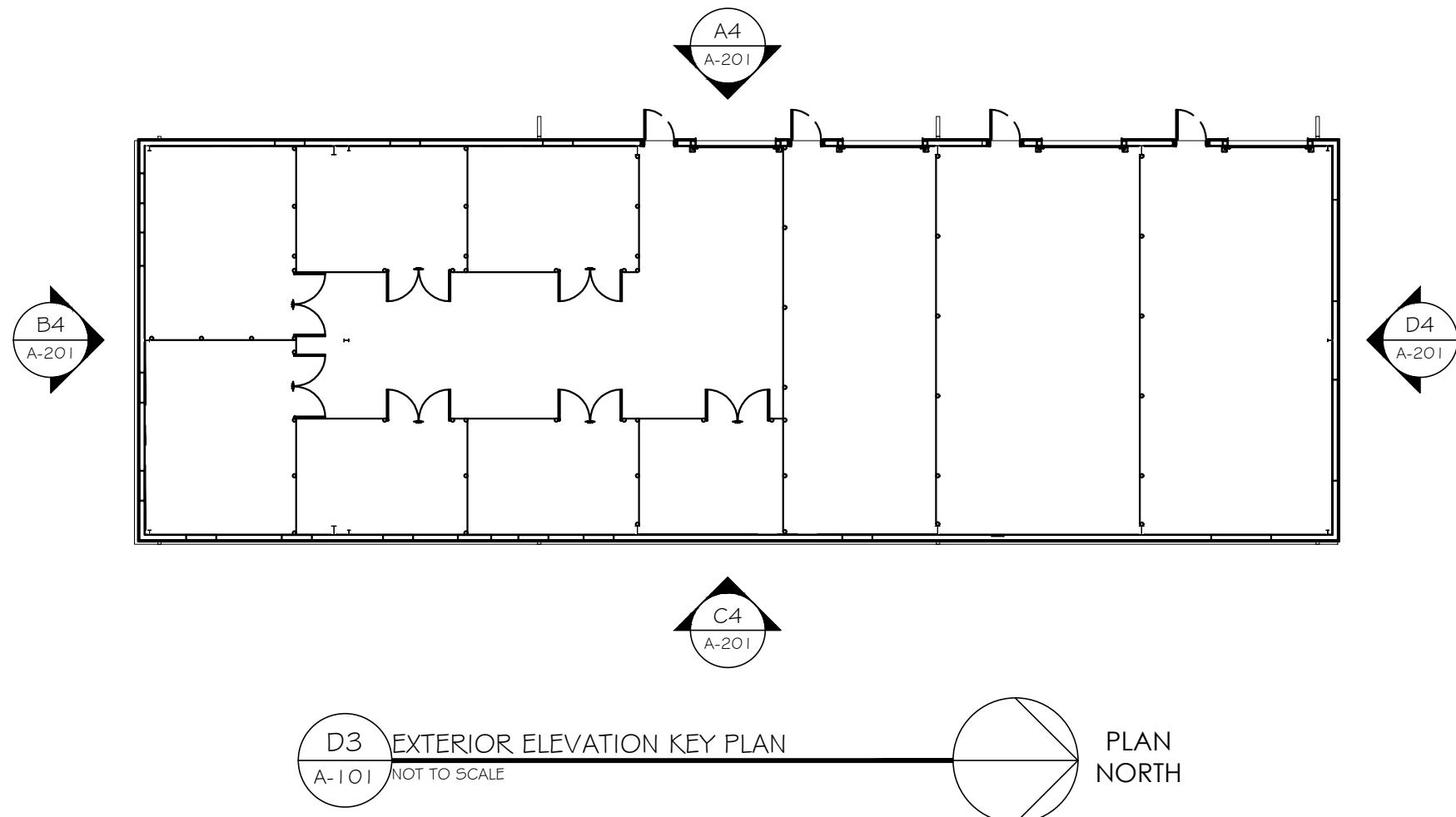
SHEET TITLE:
ARCHITECTURAL
SITE PLAN

SHEET NUMBER:

A-100

8 OF 32 SHEETS
07/23/2026

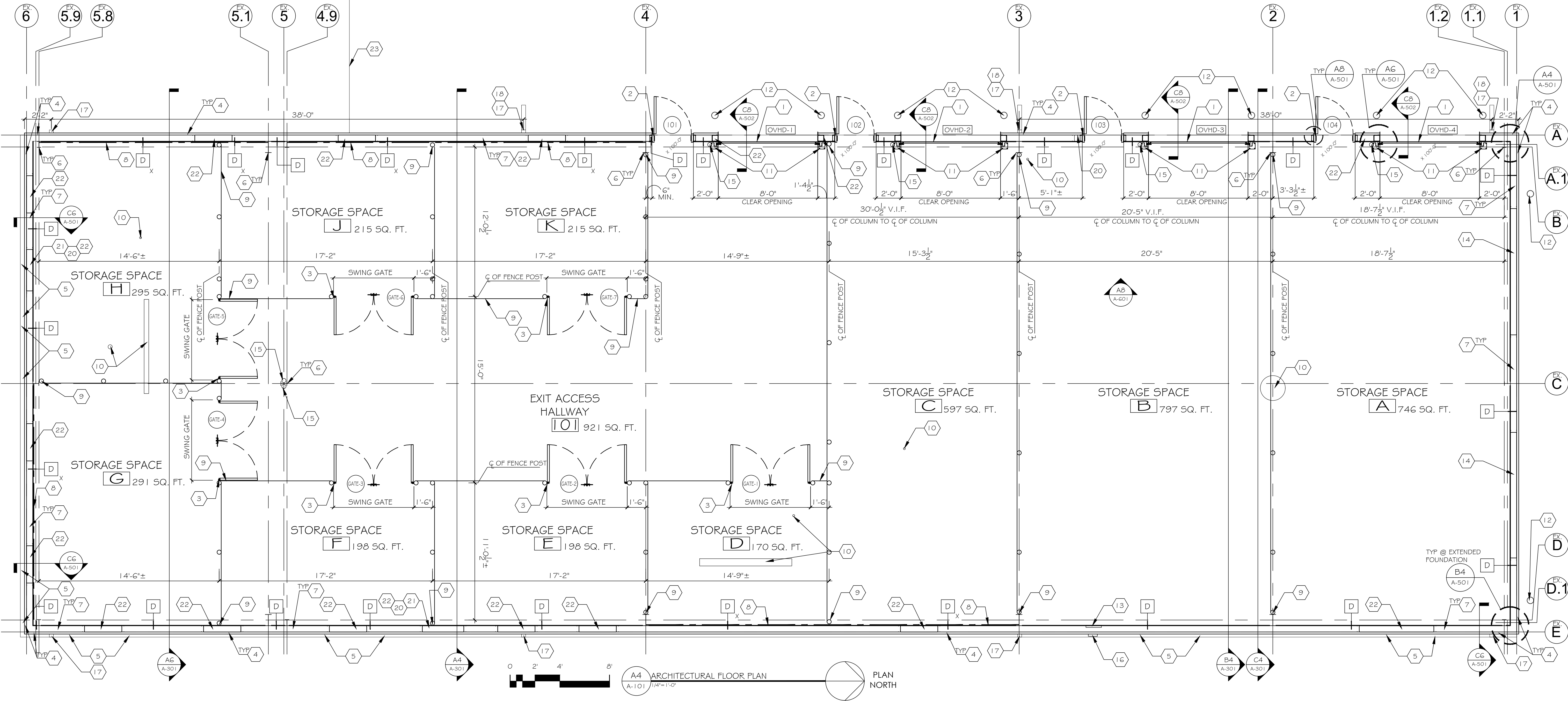




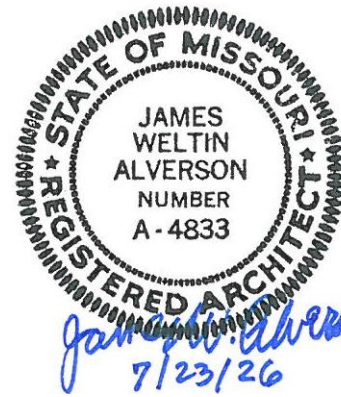
- ARCHITECTURAL FLOOR PLAN KEYED NOTES
- 1 NEW EXTERIOR SECTIONAL OVERHEAD DOOR & TRACK. REFER TO SECTION 083613 AND DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
 - 2 NEW EXTERIOR DOOR & FRAME. REFER TO SECTION 081113 AND DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
 - 3 NEW INTERIOR CHAIN-LINK GATE. REFER TO SECTION 323113 AND DOOR SCHEDULE.
 - 4 NEW FORMED METAL WALL PANELS, TRIMS AND FLASHING. REFER TO SECTION 074213 FOR ADDITIONAL INFORMATION.
 - 5 PROVIDE EXTENDED FORMED METAL WALL PANEL BASE FLASHING TO COVER EXTENT OF EXISTING BUILDING FOUNDATION FROM NORTHEAST CORNER TO SOUTHWEST CORNER. REFER TO SECTION 074213 FOR ADDITIONAL INFORMATION.
 - 6 EXISTING METAL BUILDING RIGID FRAME, CORNER COLUMNS, RAFTERS, AND ALL STRUCTURAL COMPONENTS TO REMAIN, UNLESS NOTED OTHERWISE.
 - 7 EXISTING METAL BUILDING GIRTS TO REMAIN.
 - 8 EXISTING METAL BUILDING STRUCTURE X-BRACING TO REMAIN. FIELD VERIFY LOCATIONS AND PLACEMENT.
 - 9 NEW CHAIN-LINK FENCING. REFER TO SECTION 323113 FOR ADDITIONAL INFORMATION.
 - 10 INFILL PLUMBING PIPES AT ALL LOCATIONS THROUGH EXISTING CONCRETE SLAB. PROVIDE FLOWABLE CONCRETE FILL INTO EXISTING PLUMBING P-TRAP PIPE AND CAP WATERTIGHT. SEE PLUMBING DWGS.
 - 11 NEW INTERIOR OVERHEAD DOOR TRACK PROTECTOR, SECTION 055000.
 - 12 EXISTING BOLLARD TO REMAIN. PROTECT DURING CONSTRUCTION.
 - 13 NEW ELECTRICAL PANEL. REFER TO ELECTRICAL DWGS FOR ADDITIONAL INFORMATION. PROVIDE TEMPORARY SUPPORTS DURING DEMOLITION AND CONSTRUCTION.
 - 14 NEW METAL STUD BLOCKING @ OPENINGS. SEE STRUCTURAL DWGS. PROVIDE SCRIM-COVERED BATT INSULATION TO FILL CAVITY. SEE DETAIL A2/A-501.
 - 15 FIRE EXTINGUISHER WITH WALL BRACKET.
 - 16 EXISTING ELECTRICAL UTILITY METER AND ASSOCIATED CONDUIT/WIRING TO REMAIN AT LOCATION. PROVIDE TEMPORARY SUPPORT(S) DURING DEMOLITION AND CONSTRUCTION.

- ARCHITECTURAL FLOOR PLAN KEYED NOTES (CONT.)
- 17 NEW STANDING SEAM METAL ROOF - SHEET METAL DOWNSPOUT, 4'X3". SHEET FLOW ONTO GRADE/ PAVEMENT. REFER TO ARCHITECTURAL ROOF PLAN, A103.
 - 18 PROVIDE SHEET METAL DOWNSPOUT EXTENSION, 2'-0" FROM BUILDING.
 - 19 NOTE NOT USED.
 - 20 PROVIDE NEW BASE ANGLE FOR WIDTH OF INFILL, FASTENED TO EXISTING CONCRETE SLAB, ALONG INFILL FOR METAL PANEL ATTACHMENT.
 - 21 NEW METAL STUD BLOCKING @ PREVIOUS DOOR OPENINGS. SEE STRUCTURAL DWGS.
 - 22 PROVIDE SCRIM-COVERED BATT INSULATION AT WINDOW/DOOR INFILL, WITHIN THE GIRT CAVITY. TYP.
 - 23 EXISTING CURB TO REMAIN.

- GENERAL FLOOR PLAN NOTES
- A. FINISH FLOOR ELEVATION: 100'-0" (544.50'). PER BELLEFONTAINE READINESS CENTER (PROJECT NO. T2150-D1).
 - B. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS & DIMENSIONS SHOWN AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF ANY WORK.
 - C. REFERENCE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND RELATED NEW WORK.
 - D. PROJECT EXTENTS INCLUDES THE EXTERIOR METAL PANELS, DOWNSPOUTS AND THE EXTERIOR BOLLARD WORK. SEE PLANS FOR ADDITIONAL INFORMATION. ALL PAVEMENT & GROUND COVER WORK IS TO BE COMPLETED BY OTHERS (N.I.C.).



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SITE # 6322
FACILITY # 7016322002
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07/23/2026

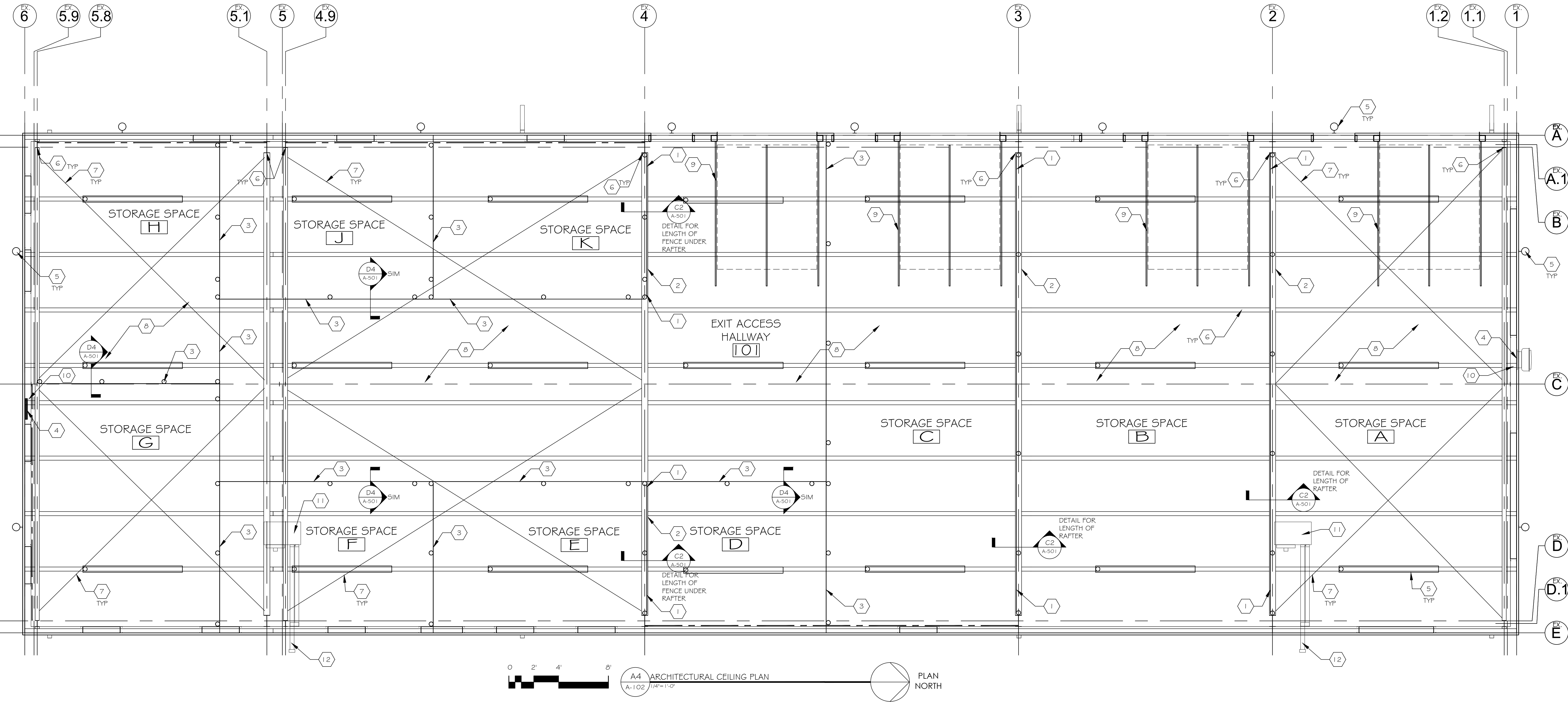


ARCHITECTURAL CEILING PLAN KEYED NOTES

- NEW CHAIN-LINK FENCING TO UNDERSIDE OF EXISTING METAL BUILDING RIGID FRAME.
- PROVIDE CLOSER PIECE, LENGTH OF FRAME WHERE CHAIN-LINK FENCE OCCURS, ABOVE EXISTING METAL BUILDING RAFTER TO UNDERSIDE OF ROOF INSULATION. SEE DETAIL C2/A-501 & C4/A-501.
- NEW CHAIN-LINK FENCING TO UNDERSIDE OF EXISTING ROOF PURLINS. PROVIDE CLOSURE PIECE PER DETAIL C4/A-501.
- NEW MECHANICAL EQUIPMENT. REFER TO MECHANICAL DWGS. FOR ADDITIONAL INFORMATION.
- LIGHT FIXTURE. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFORMATION.
- EXISTING METAL BUILDING RIGID FRAME, CORNER COLUMNS, RAFTERS, AND ALL STRUCTURAL COMPONENTS TO REMAIN, UNLESS NOTED OTHERWISE.
- EXISTING METAL BUILDING STRUCTURE X-BRACING, AT ROOF, TO REMAIN. FIELD VERIFY LOCATIONS.
- EXISTING METAL BUILDING ROOF INSULATION TO REMAIN. TYP. NOTE: EXISTING METAL BUILDING ROOF INSULATION TO REMAIN AT ALL LOCATIONS.
- SECTIONAL OVERHEAD DOOR TRACK. PROVIDE UNISTRUT AS NECESSARY FOR ATTACHMENT TO EXISTING PURLINS.
- PROVIDE NEW SUPPORT FRAMING FOR MECHANICAL EQUIPMENT WITHIN EXISTING GIRT CAVITY. REFER TO DETAIL A8/A-502.
- PROVIDE NEW GAS-FIRED UNIT HEATER. REFER TO MECHANICAL DWGS. FOR ADDITIONAL INFORMATION AND GAS PIPE ROUTING TO EXIST GAS METER.
- UNIT HEATER COMBUSTION AIR AND EXHAUST PIPES. REFER TO MECHANICAL DWGS. FOR ADDITIONAL INFORMATION. PROVIDE VENT TERMINATION SUPPORT BRACKET WITH 1" X 1" STEEL ANGLE PER UNIT HEATER MANUFACTURER'S WRITTEN INSTRUCTIONS. ATTACH SUPPORT BRACKET TO PIPE AND EXTERIOR WALL. PAINT PIPE AND BRACKET TO MATCH EXTERIOR METAL WALL PANEL.

GENERAL CEILING PLAN NOTES

- A. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS & DIMENSIONS SHOWN AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF ANY WORK.
- B. REFERENCE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND RELATED DEMOLITION WORK.



OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
MISSOURI NATIONAL GUARD

REPAIRS TO
INTERIOR/EXTERIOR,
UNHEATED STORAGE
BUILDING
BELLEFONTAINE
READINESS CENTER
10625 LEWIS & CLARK BLVD.
ST. LOUIS, MO 63136

PROJECT # T2331-01
SITE # 6322
FACILITY # 7016322002
-

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 07/23/2026

CAD DWG FILE: T2331-01-6322-A-102
DRAWN BY: TU
CHECKED BY: JA
DESIGNED BY: TU

SHEET TITLE:
**ARCHITECTURAL
CEILING PLAN**

SHEET NUMBER:
A-102
10 OF 32 SHEETS
07/23/2026

- ARCHITECTURAL ROOF PLAN KEYED NOTES
- 1

NEW STANDING SEAM METAL ROOF PANELS. REFER TO SECTION 074113 FOR ADDITIONAL INFORMATION. FIELD VERIFY LOCATION OF EXISTING METAL BUILDING PURLINS.
- 2

ROOF RIDGE.
- 3

NEW STANDING SEAM METAL ROOF - RIDGE CAP. FIELD VERIFY SPACING OF EXISTING METAL BUILDING PURLIN FOR RIDGE CAP SIZE AND ATTACHMENTS.
- 4

NEW STANDING SEAM METAL ROOF - EAVE TRIM.
- 5

NEW STANDING SEAM METAL ROOF - CONT. GUTTER, FOR ENTIRE LENGTH OF BUILDING. PROVIDE GUTTER STRAPS.
- 6

NEW STANDING SEAM METAL ROOF - SHEET METAL DOWNSPOUT, 4"x3".
- 7

NEW STANDING SEAM METAL ROOF - RAKE TRIM.
- 8

NEW STANDING SEAM METAL ROOF - RAIL TYPE SNOW GUARDS WITH ICE FLAGS. BASE ROW SNOW GUARD TO BE INSTALLED FOR LENGTH OF BUILDING AND MINIMUM 1'-0" ABOVE ROOF EDGE LINE OR PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 9

NEW 7'-8" WIDE MIN. STANDING SEAM METAL ROOF - RAIL TYPE SNOW GUARDS WITH ICE FLAGS. SECOND ROW SNOW GUARD INSTALLED CENTERED ON EXTERIOR DOOR, TYP.
- 10

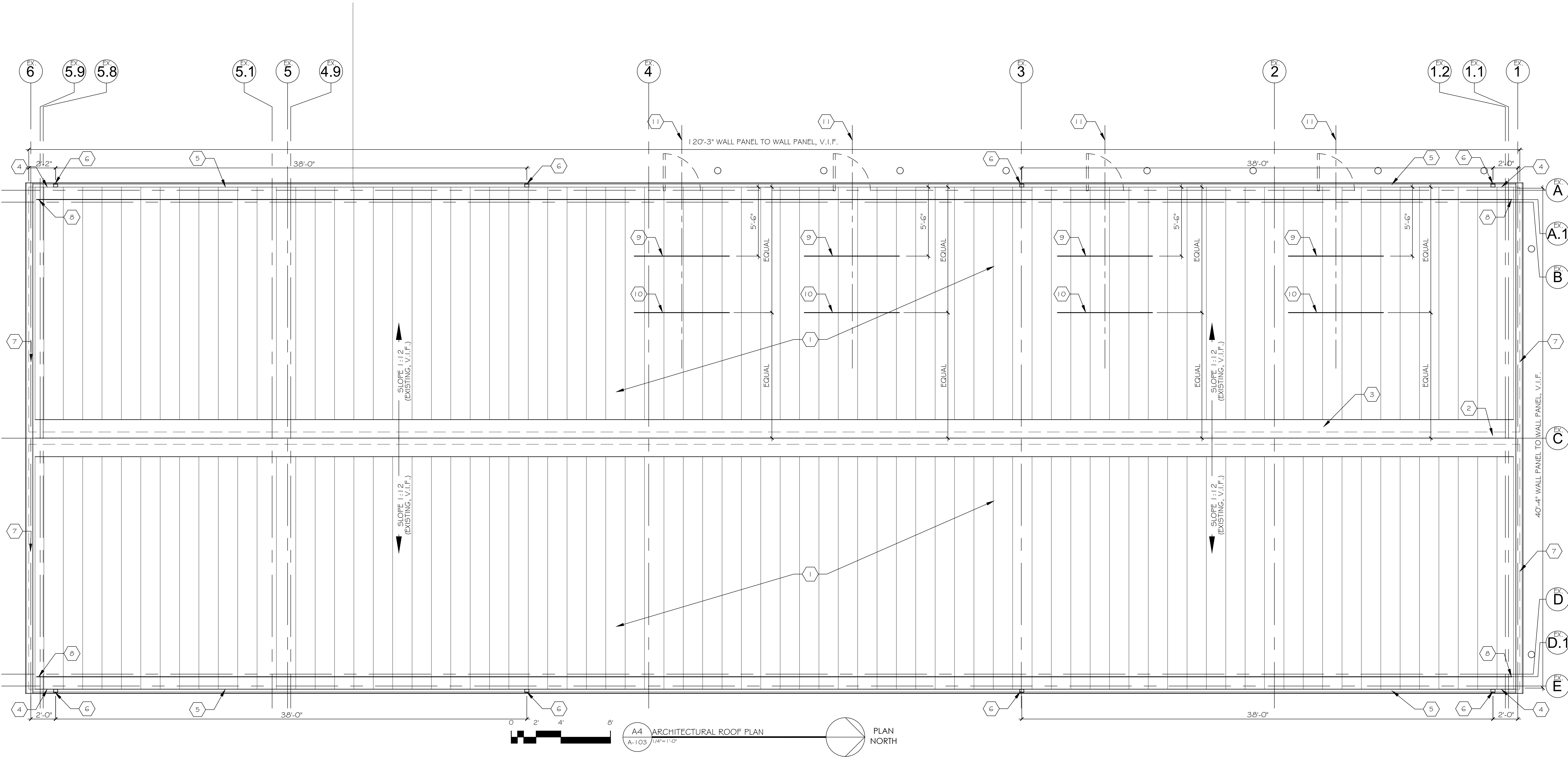
NEW 7'-8" WIDE MIN. STANDING SEAM METAL ROOF - RAIL TYPE SNOW GUARDS WITH ICE FLAGS. THIRD ROW SNOW GUARD INSTALLED CENTERED ON EXTERIOR DOOR, TYP.
- 11

EXTERIOR DOOR # CENTERLINE OF EXTERIOR DOOR, SHOWN FOR REFERENCE.

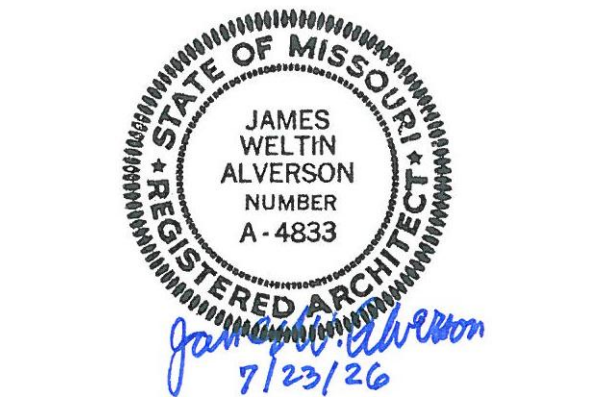
- GENERAL ROOF PLAN NOTES
- A.

GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS & DIMENSIONS SHOWN AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF ANY WORK.
- B.

REFERENCE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND RELATED NEW WORK.



STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



KRJ Architecture
Building Communities
KROMM, RIKIMARU AND JOHANSEN, INC.
9920 WATSON ROAD, SUITE 209, ST. LOUIS, MO 63126

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ST. LOUIS, MO 63136

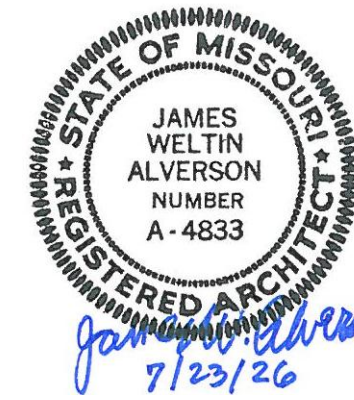
PROJECT # T2331-01
SITE # 6322
FACILITY # 7016322002
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REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 07/23/2026

CAD DWG FILE: T2331-01-6322-A-103
DRAWN BY: TU
CHECKED BY: JA
DESIGNED BY: TU

SHEET TITLE:
**ARCHITECTURAL
ROOF PLAN**

SHEET NUMBER:
A-103
11 OF 32 SHEETS
07/23/2026



REPAIRS TO
INTERIOR/EXTERIOR,
UNHEATED STORAGE
BUILDING
BELLEFONTAINE
READINESS CENTER
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PROJECT # T2331-01
SITE # 6322
FACILITY # 7016322002
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REVISION:
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REVISION:
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REVISION:
DATE:

ISSUE DATE: 07/23/2026

CAD DWG FILE: T2331-01-6322-A-201
DRAWN BY: TU
CHECKED BY: JA
DESIGNED BY: TU

SHEET TITLE:
ARCHITECTURAL
EXTERIOR
ELEVATIONS

SHEET NUMBER:

A-201

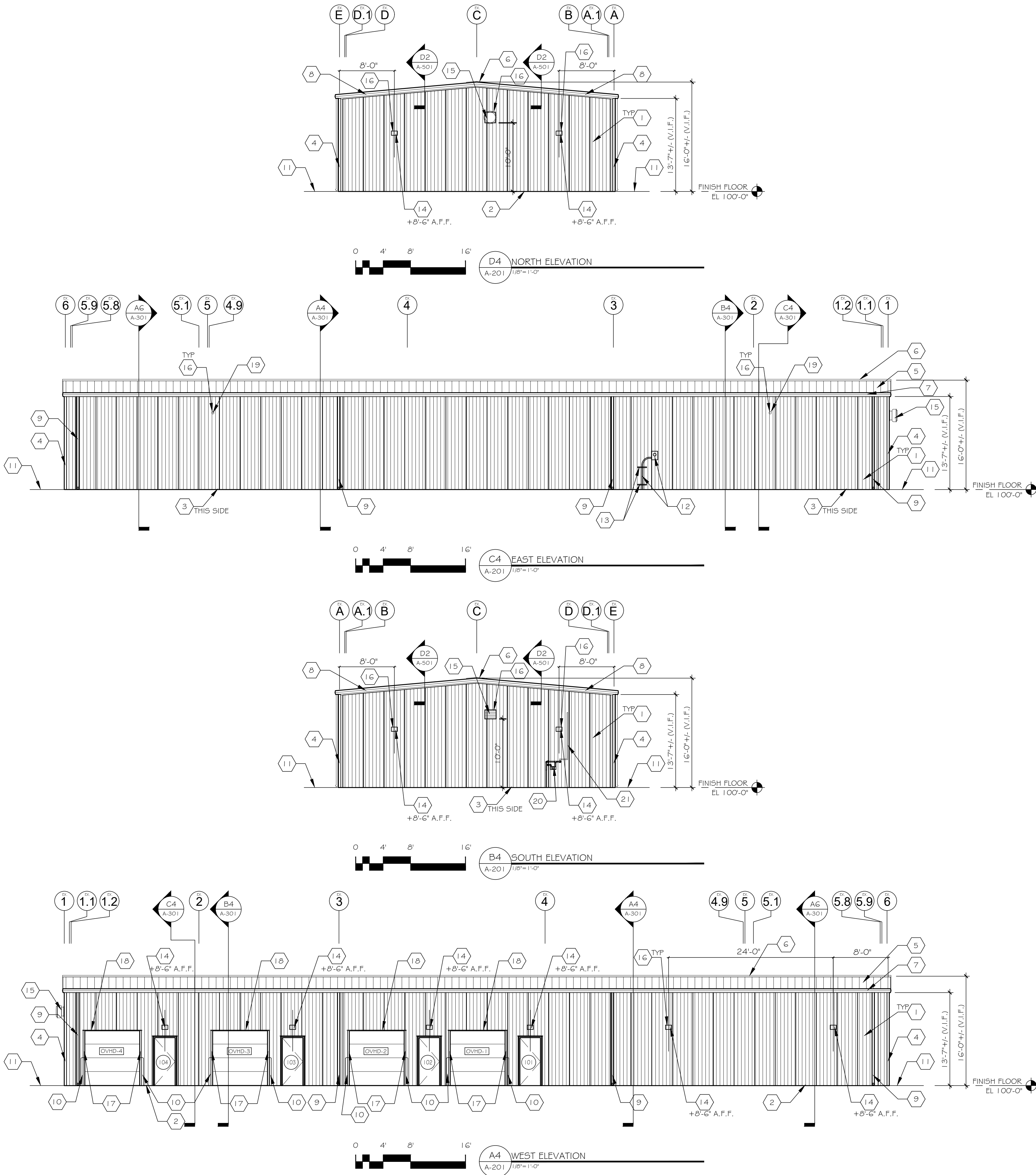
12 OF 32 SHEETS
07/23/2026

GENERAL EXTERIOR ELEVATION NOTES

- A. FINISH FLOOR ELEVATION: 100'-0" (544.50'). PER BELLEFONTAINE READINESS CENTER (PROJECT NO. T2150-01).
B. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS & DIMENSIONS SHOWN AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF ANY WORK.
C. PROJECT EXTENTS INCLUDES THE EXTERIOR METAL PANELS, DOWNSPOUTS AND THE EXTERIOR BOLLARD WORK. SEE PLANS FOR ADDITIONAL INFORMATION. ALL PAVEMENT & GROUND COVER WORK IS TO BE COMPLETED BY OTHERS (N.I.C.)

ARCHITECTURAL EXTERIOR ELEVATION KEYED NOTES

- 1 NEW FULL-HEIGHT FORMED METAL WALL PANELS. FIELD VERIFY LOCATION OF EXISTING GIRT HEIGHTS AND NEW STEEL TUBE HEADERS FOR PANEL ATTACHMENT.
2 FORMED METAL WALL PANEL - BASE TRIM. CONTINUOUS AROUND BUILDING.
3 FORMED METAL WALL PANEL - EXTENDED BASE TRIM. CONTINUOUS AT EXPOSED EXISTING CONCRETE FOUNDATION. FIELD VERIFY EXTENTS.
4 FORMED METAL WALL PANEL - FULL-HEIGHT CORNER TRIM.
5 STANDING SEAM METAL ROOF PANELS.
6 STANDING SEAM METAL ROOF - RIDGE CAP.
7 STANDING SEAM METAL ROOF - CONTINUOUS GUTTER.
8 STANDING SEAM METAL ROOF - RAKE TRIM. REFER TO DETAIL D2/A-501.
9 STANDING SEAM METAL ROOF - DOWNSPOUT.
10 EXISTING BOLLARD TO REMAIN. PROTECT DURING CONSTRUCTION.
11 HARDSCAPE & LANDSCAPE WORK UP TO BUILDING FOUNDATION BY OTHERS (N.I.C.). REFER TO BELLEFONTAINE READINESS CENTER PROJECT NO. T2150-01 FOR INFORMATION.
12 EXISTING ELECTRICAL UTILITY METER AND ASSOCIATED CONDUITWIRING TO REMAIN AT LOCATION. PROVIDE TEMPORARY SUPPORT(S) DURING DEMOLITION AND CONSTRUCTION.
13 PROVIDE STEEL UNISTRUT CHANNELS FOR CONDUIT ATTACHMENT. UNISTRUT TO BE ANCHORED THROUGH METAL WALL PANELS TO WOOD BLOCKING IN GIRT CAVITY.
14 LIGHT FIXTURE. REFER TO ELECTRICAL DWGS.
15 MECHANICAL EQUIPMENT. REFER TO MECHANICAL DWGS.
16 FORMED METAL WALL PANEL - PERIMETER TRIM AROUND EQUIPMENT. PROVIDE A WEATHERTIGHT CONDITION AROUND EQUIPMENT.
17 STEEL ANGLE JAMB. PAINT. SEE STRUCTURAL DWGS. AND DETAIL A6/A-501.
18 STEEL ANGLE HEADER. PAINT. SEE STRUCTURAL DWGS. AND DETAIL B6/A-501.
19 UNIT HEATER FLUE AND INTAKE PIPE. SEE MECHANICAL DWGS.



DEPARTMENT OF
MISSOURI NATIONAL GUARD

PROJECT # T2331-01
SITE # 6322
FACILITY # 7016322002

ISSUE DATE: 07/23/2026

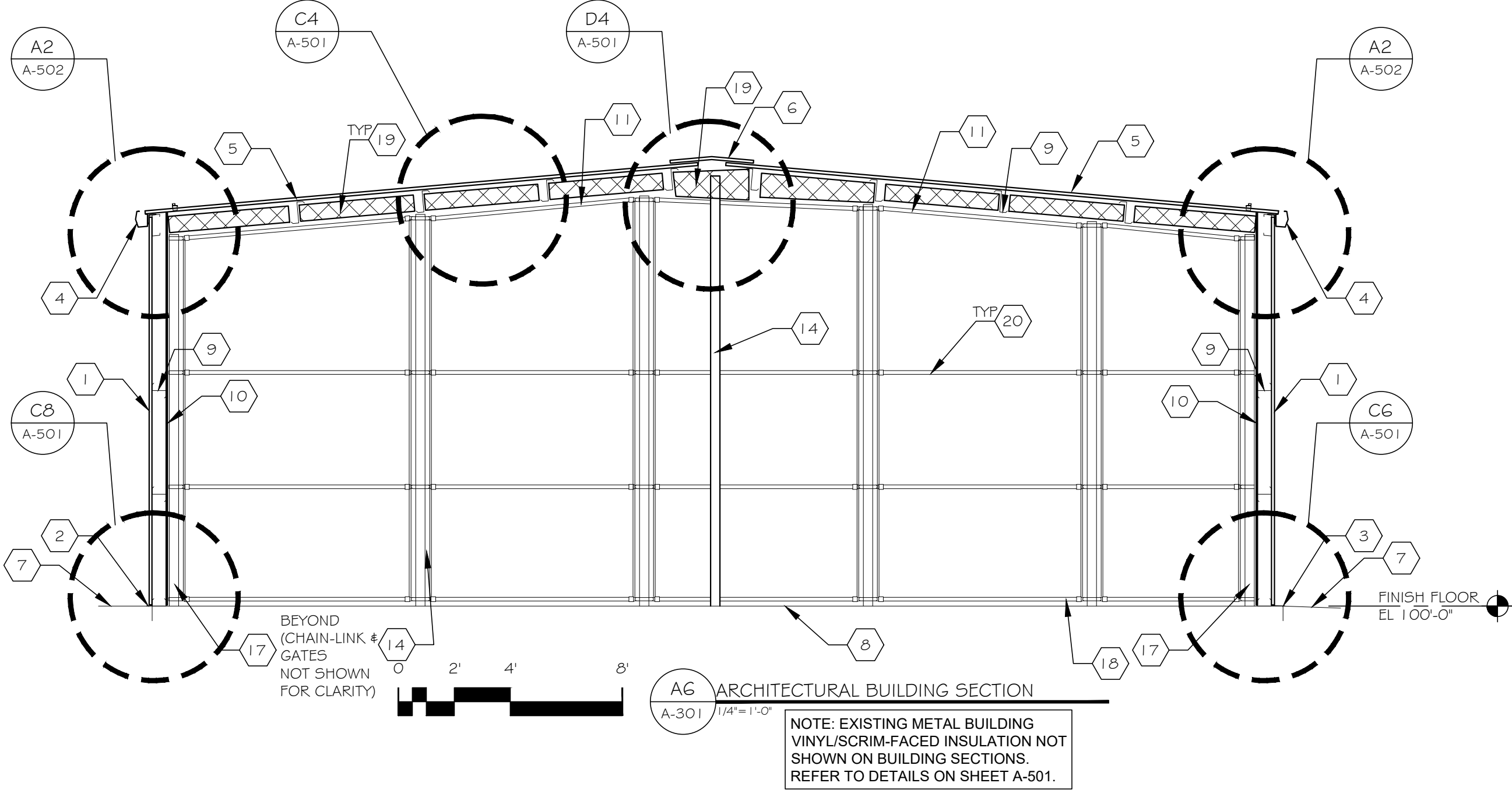
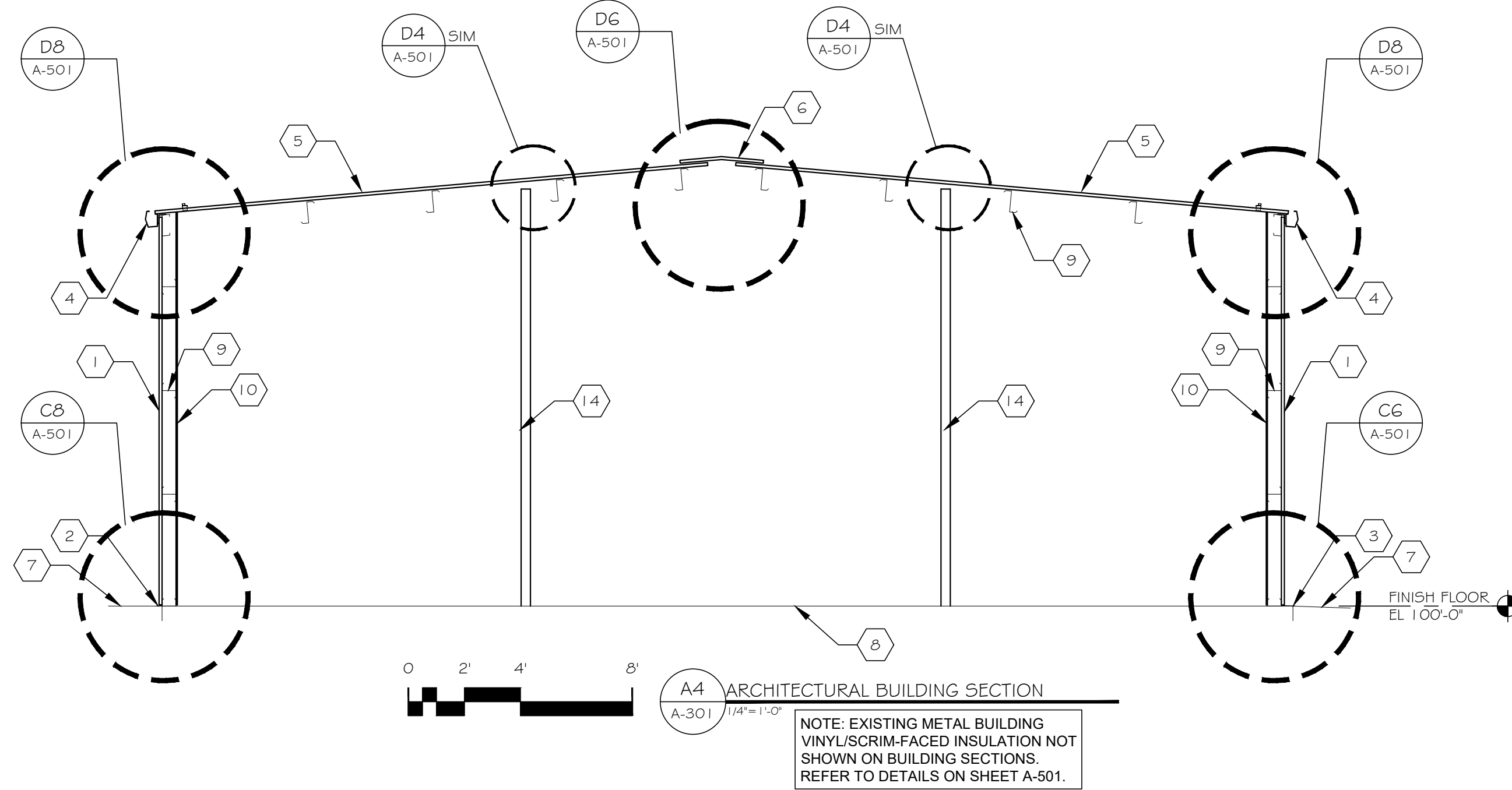
SHEET TITLE:
ARCHITECTURAL
BUILDING
SECTIONS

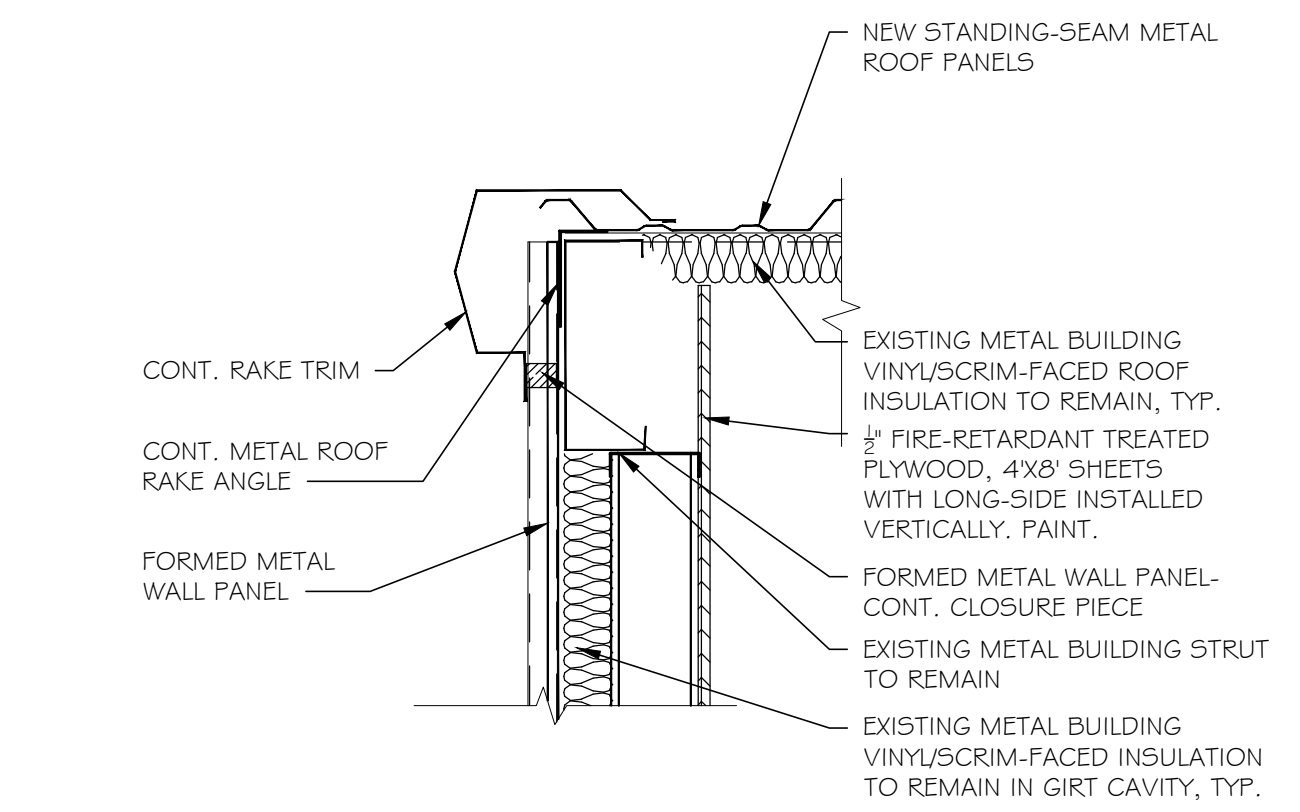
SHEET NUMBER:

8 OF 32 SHEETS
7/23/2026

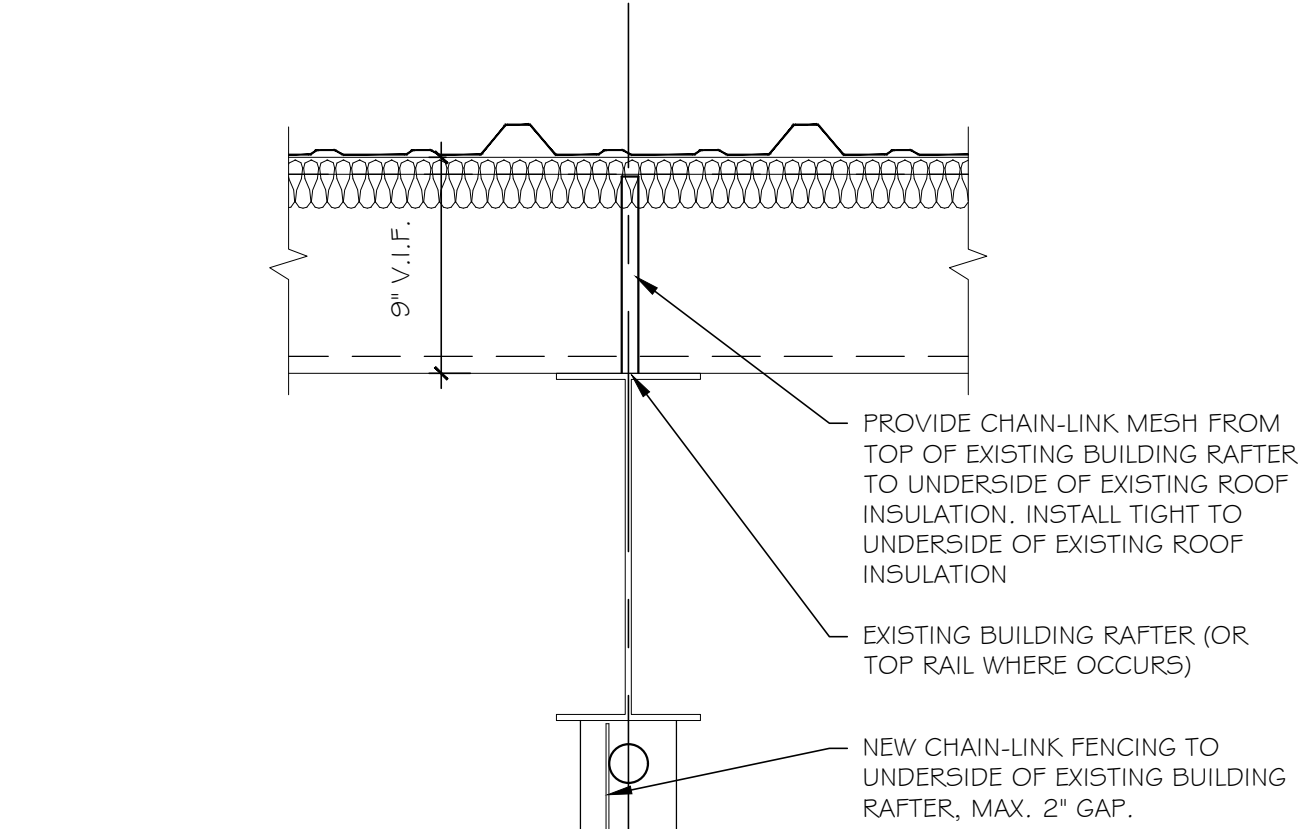
- A. FINISH FLOOR ELEVATION: 100'-0" (544.50). PER BELLEFONTAINE READINESS CENTER (PROJECT NO. T2150-01).
- B. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS & DIMENSIONS SHOWN AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF ANY WORK. PROJECT EXTENTS INCLUDES THE EXTERIOR METAL PANELS, DOWNSPOUTS AND THE EXTERIOR GROUND COVER. CONTRACTOR SHALL OBTAIN ALL NECESSARY INFORMATION, ALL PAVEMENT & GROUND COVER WORK IS TO BE INSULATED BY OTHERS (N.I.C.).
- D. EXISTING GIRT-CAVITY CONSTRUCTION NOT SHOWN ON THESE SECTIONS. SEE DETAILS FOR INFORMATION.
- E. REFER TO THE ARCHITECTURAL FLOOR PLAN SHEET A-101 FOR LOCATION OF BUILDING SECTIONS.

- 1 NEW FULL-HEIGHT FORMED METAL WALL PANELS.
- 2 FORMED METAL WALL PANEL - BASE TRIM. CONTINUOUS AROUND BUILDING.
- 3 FORMED METAL WALL PANEL - EXTENDED BASE TRIM. CONTINUOUS AT EXPOSED EXISTING CONCRETE FOUNDATION. FIELD VERIFY EXTENTS.
- 4 STANDING-SEAM METAL ROOF - CONTINUOUS GUTTER.
- 5 STANDING-SEAM METAL ROOF PANELS.
- 6 STANDING-SEAM METAL ROOF - RIDGE CAP.
- 7 HARDSCAPE & LANDSCAPE WORK UP TO BUILDING FOUNDATION BY OTHERS (N.I.C.). REFER TO BELLEFONTAINE READINESS CENTER PROJECT NO. T2150-01 FOR INFORMATION.
- 8 EXISTING CONCRETE SLAB TO REMAIN.
- 9 EXISTING BUILDING STRUCTURE TO REMAIN, U.N.O.
- 10 1/2" FIRE-RETARDANT TREATED PLYWOOD. REFER TO PARTITION TYPES.
- 11 RUN CHAIN-LINK TOP RAIL TO UNDERSIDE OF EXISTING FURLINS.
- 12 CLOSURE DETAIL ABOVE RAFTER/TOP RAIL. SEE DETAIL C2/A-501 & C4/A-501.
- 13 PROVIDE STEEL UNISTRUT CHANNELS OR ANGLE, AS NEEDED, FOR ATTACHMENT OF OVERHEAD DOOR TRACK SUPPORTS.
- 14 CHAIN-LINK FENCING/POSTS. RUN TO WITHIN 1" OF EXISTING ROOF INSULATION, TYP.
- 15 RUN CHAIN-LINK TOP POST TO UNDERSIDE OF EXISTING BUILDING RAFTER, TO WITHIN 2" UNDERSIDE OF THE EXISTING RAFTER. TYP.
- 16 OVERHEAD DOOR TRACK ASSEMBLY.
- 17 LOCATE CHAIN-LINK END POSTS WITHIN 2" FROM FACE OF PLYWOOD OR EXISTING BUILDING COLUMN. GAP BETWEEN POST AND PLYWOOD/STRUCTURE SHOULD NOT ALLOW A 2" DIAMETER OBJECT THROUGH. TYP.
- 18 LOCATE CHAIN-LINK BOTTOM POSTS WITHIN 2" FROM TOP OF CONCRETE SLAB. GAP BETWEEN POST AND CONCRETE SLAB SHOULD NOT ALLOW A 2" DIAMETER OBJECT THROUGH. TYP.
- 19 CLOSURE DETAIL ABOVE CHAIN-LINK FENCE TOP RAIL (WITH-IN THE PURLIN CAVITY). SEE DETAIL C2/A-501 & C4/A-501 (51M).
- 20 CHAIN-LINK FENCE HORIZONTAL RAILING, HEIGHTS AND QUANTITY PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE WITH CHAIN-LINK GATE.

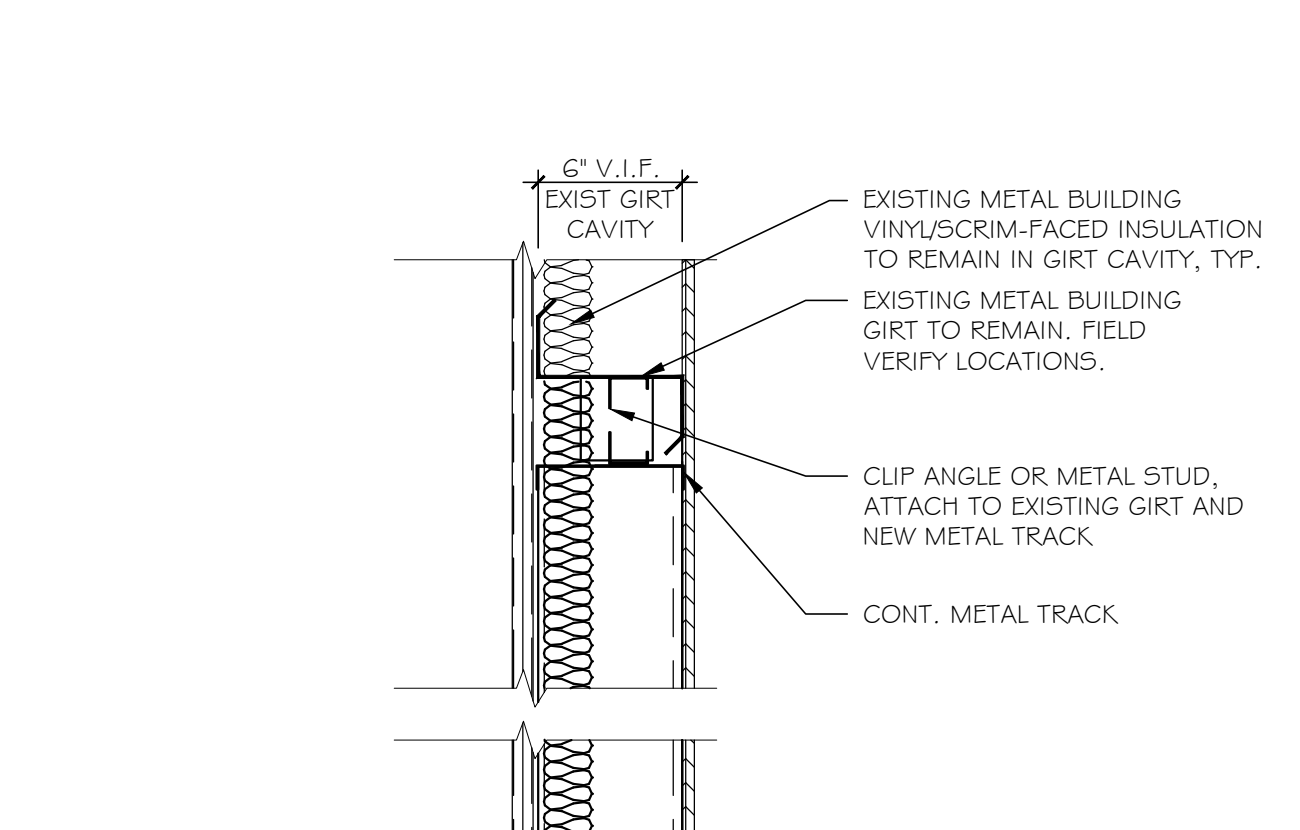




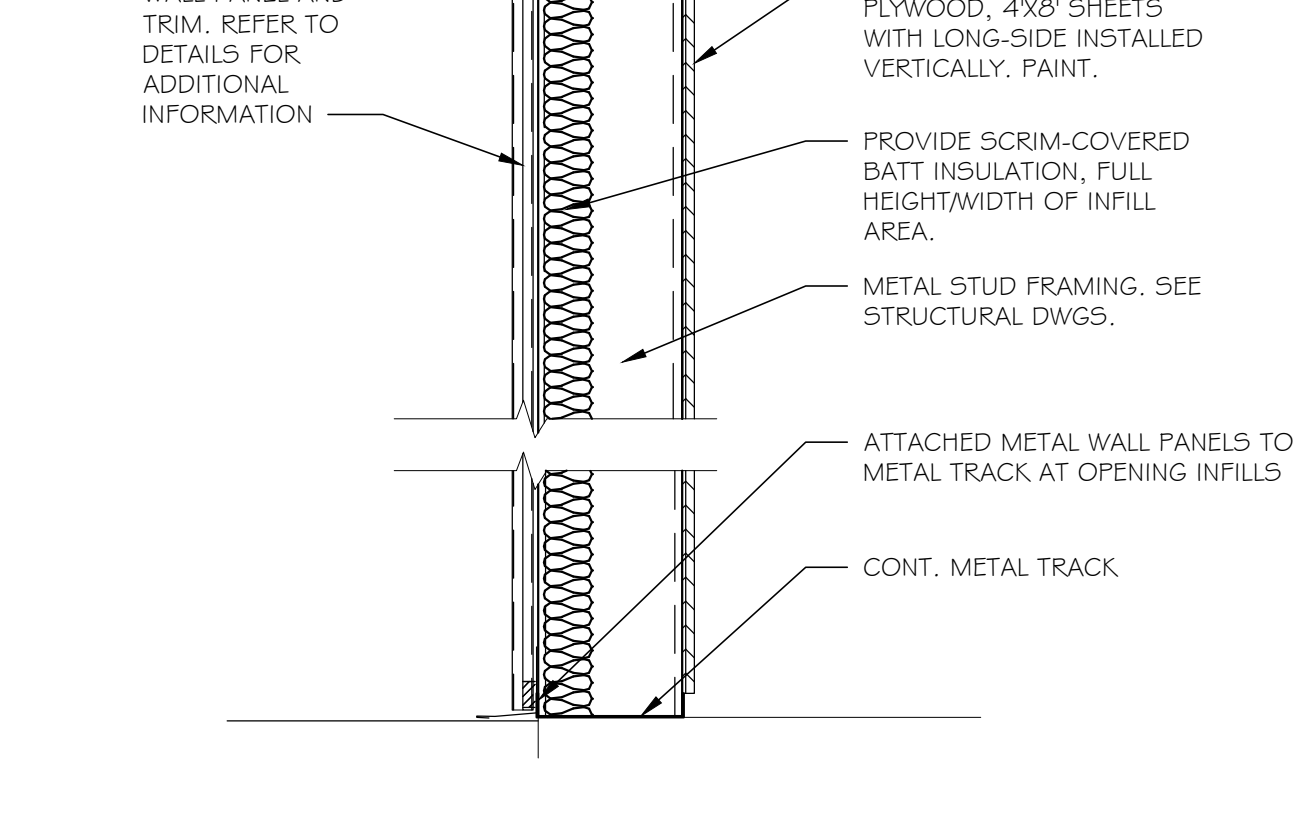
D2 RAKE EDGE DETAIL
A-501 1/12=1'-0"



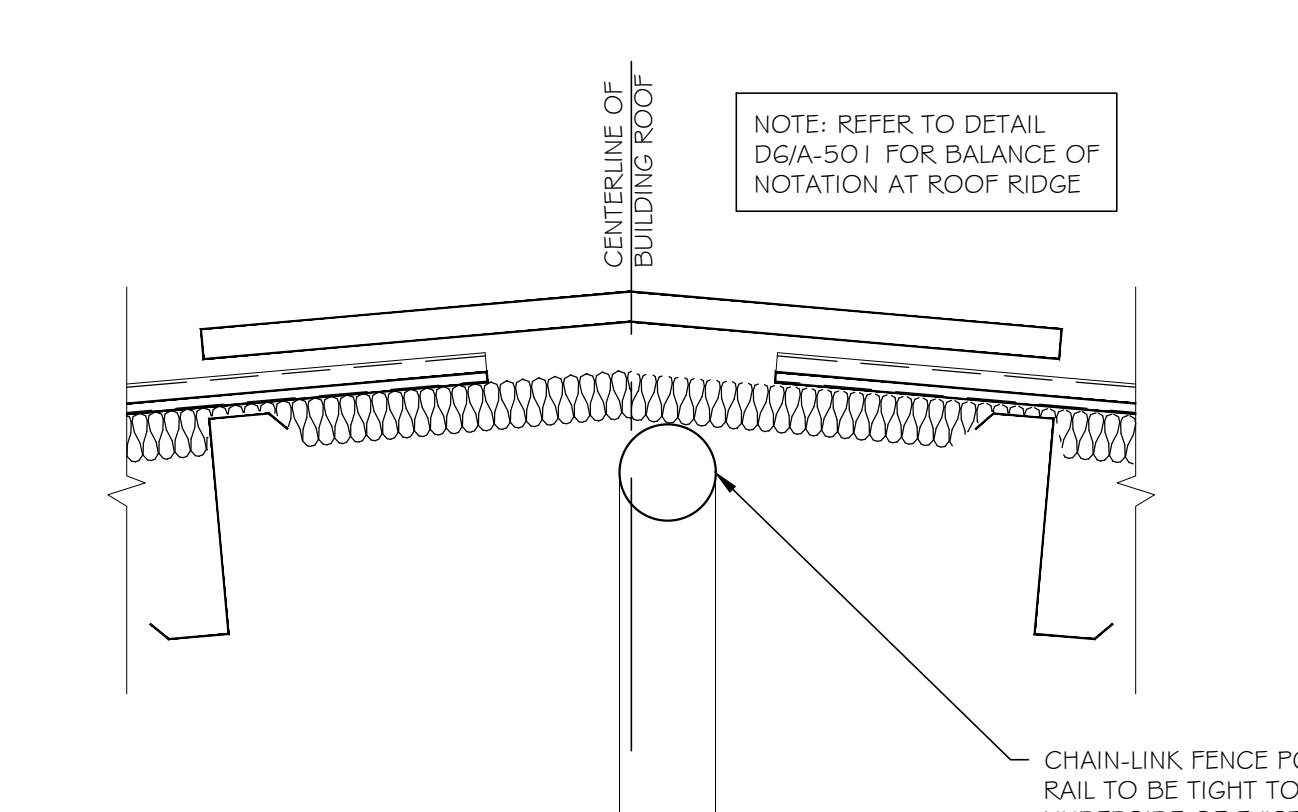
C2 CLOSURE DETAIL ABOVE RAFTER/TOP RAIL
A-501 1/12=1'-0"



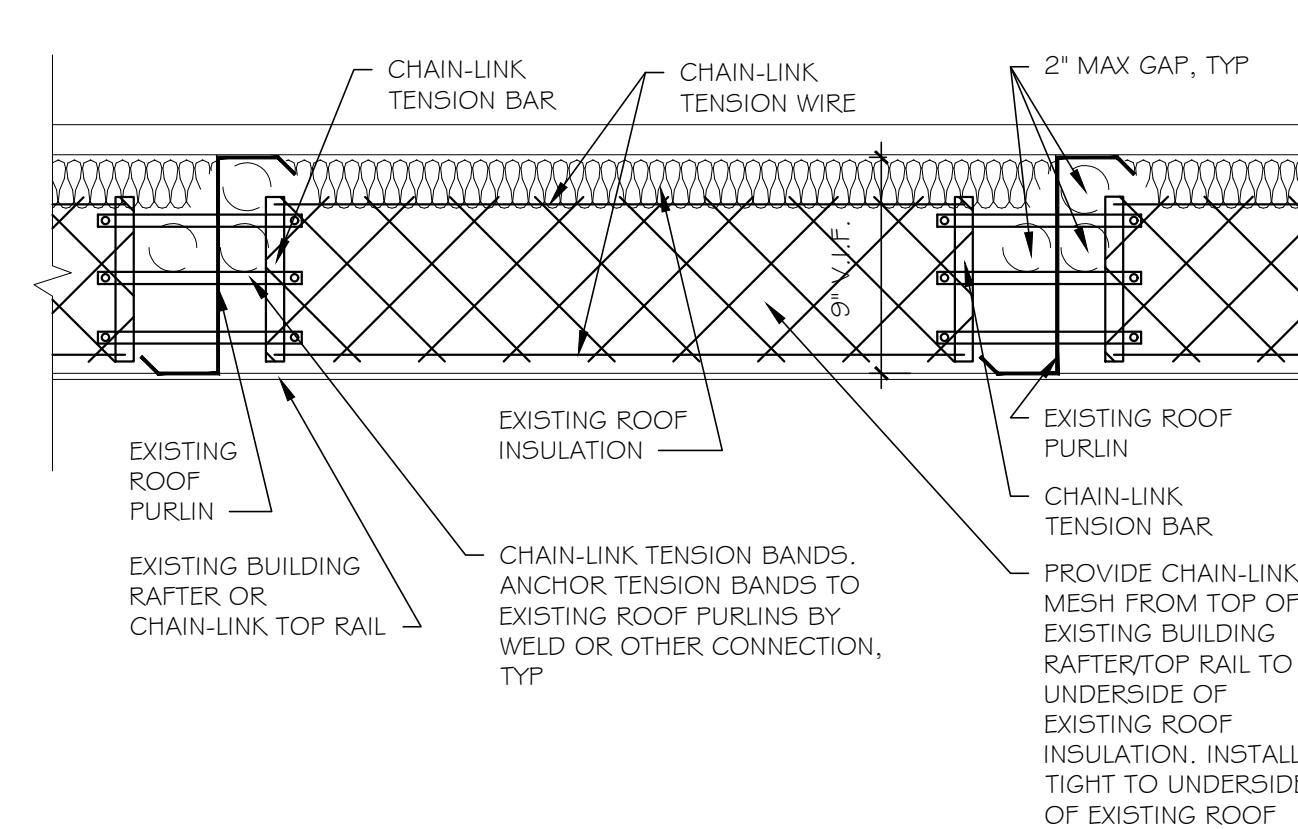
B4 METAL PANEL CORNER DETAIL
A-501 1/12=1'-0" TYP @ EXTENDED FOUNDATION



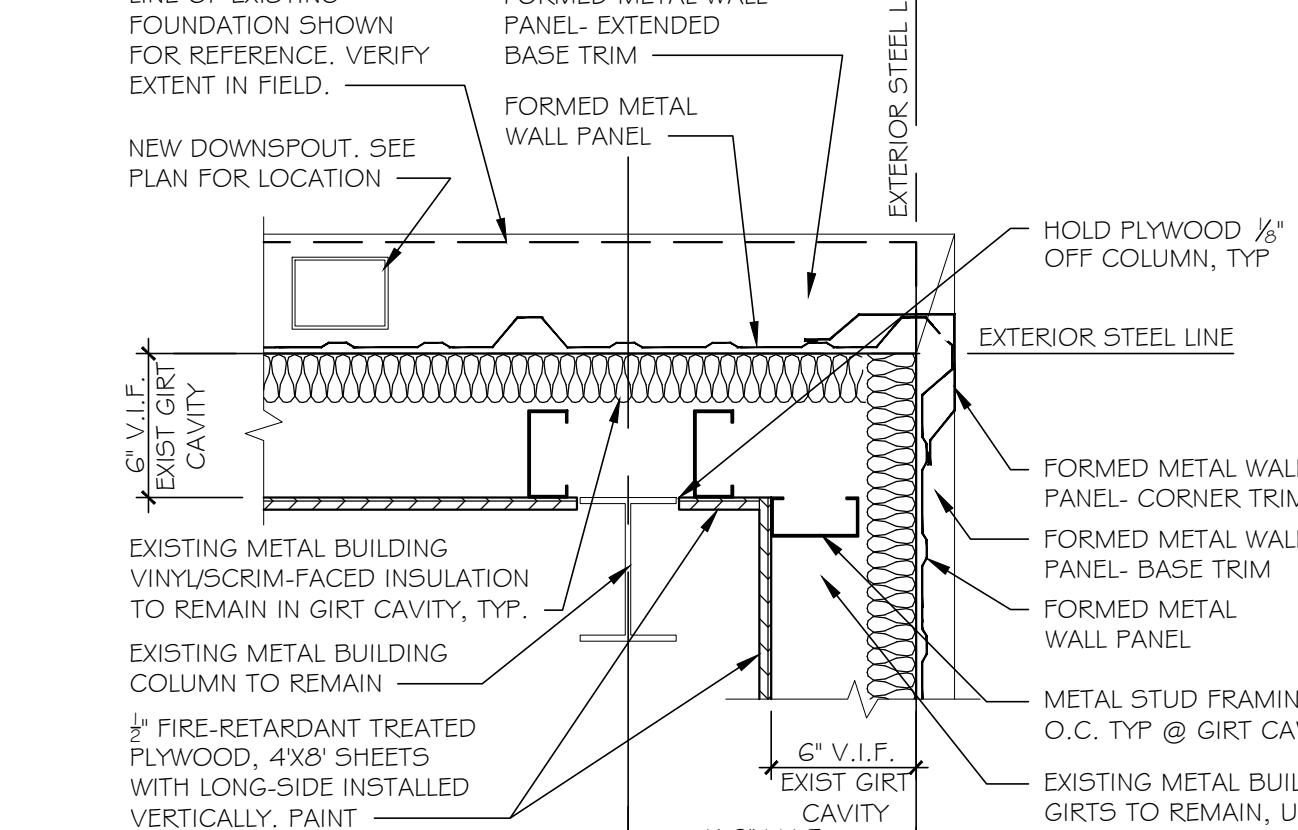
A2 INFILL DETAIL AT GIRT CAVITY
A-501 1/12=1'-0"



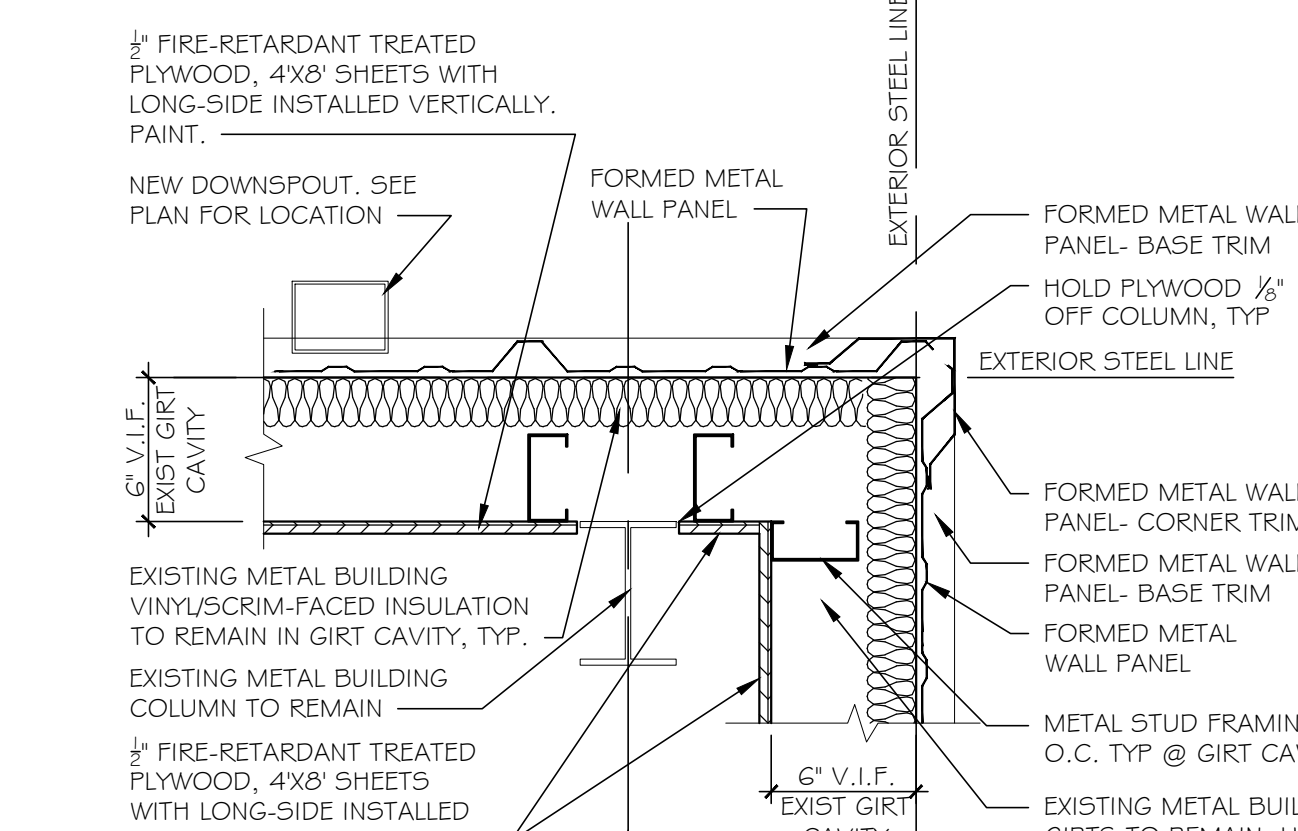
D4 TOP RAIL DETAIL
A-501 1/12=1'-0"



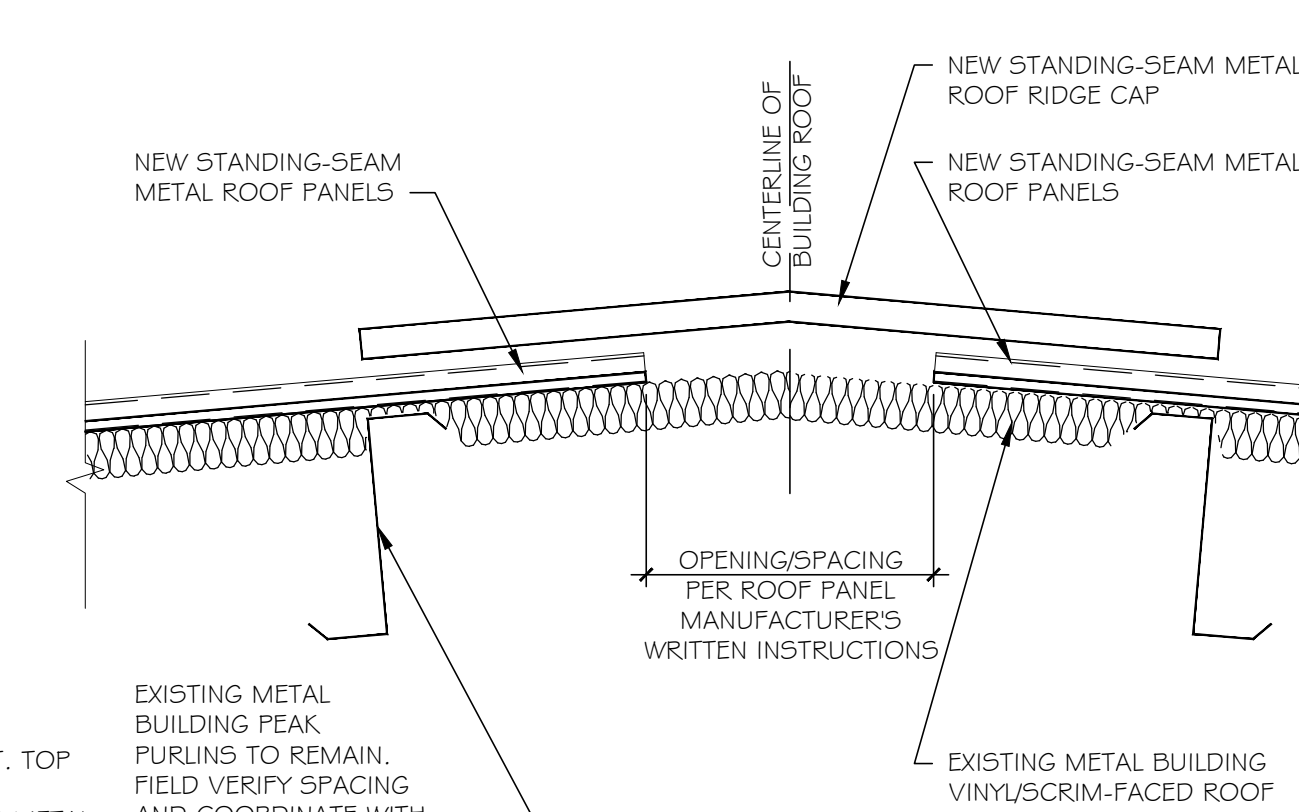
C4 CLOSURE DETAIL ABOVE RAFTER/TOP RAIL
A-501 1/12=1'-0"



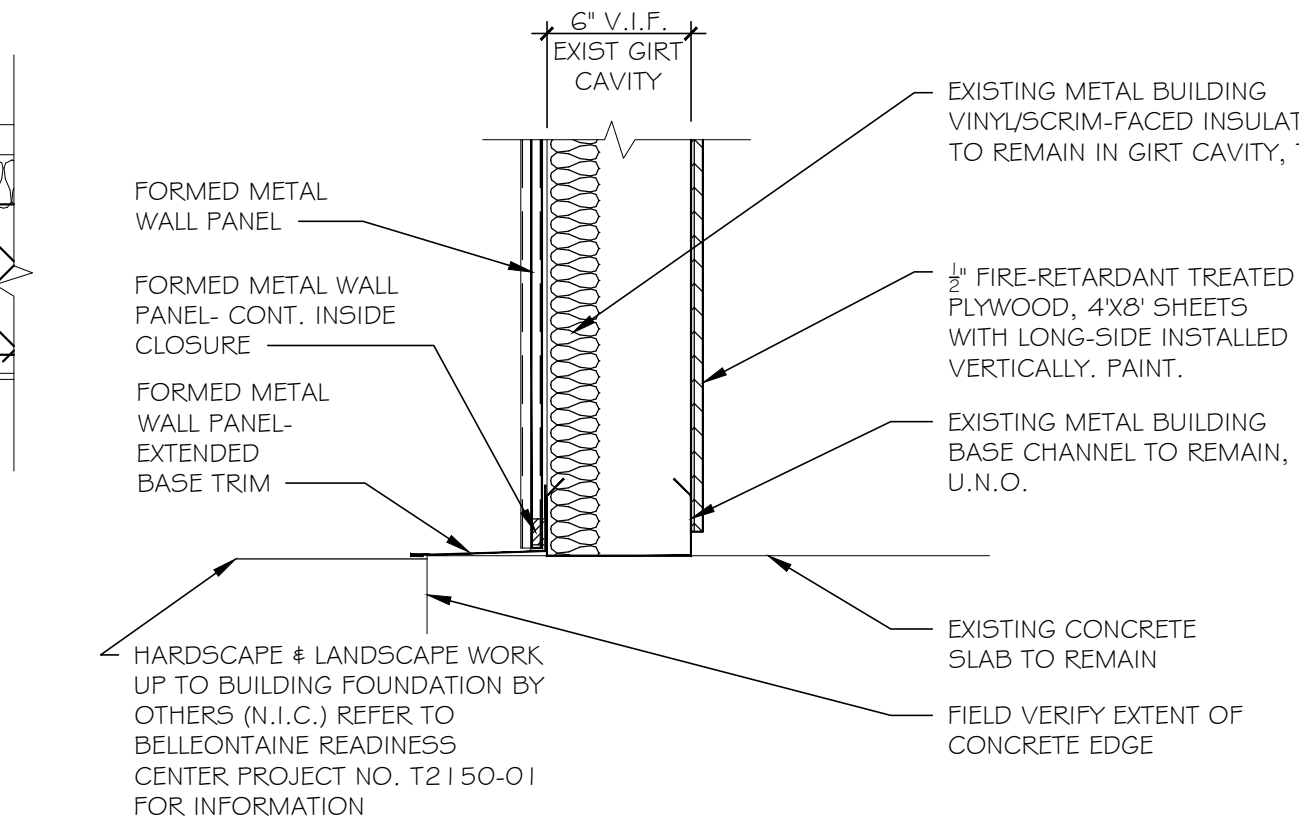
B6 OVERHEAD DOOR (OVHD) HEAD DETAIL
A-501 1/12=1'-0"



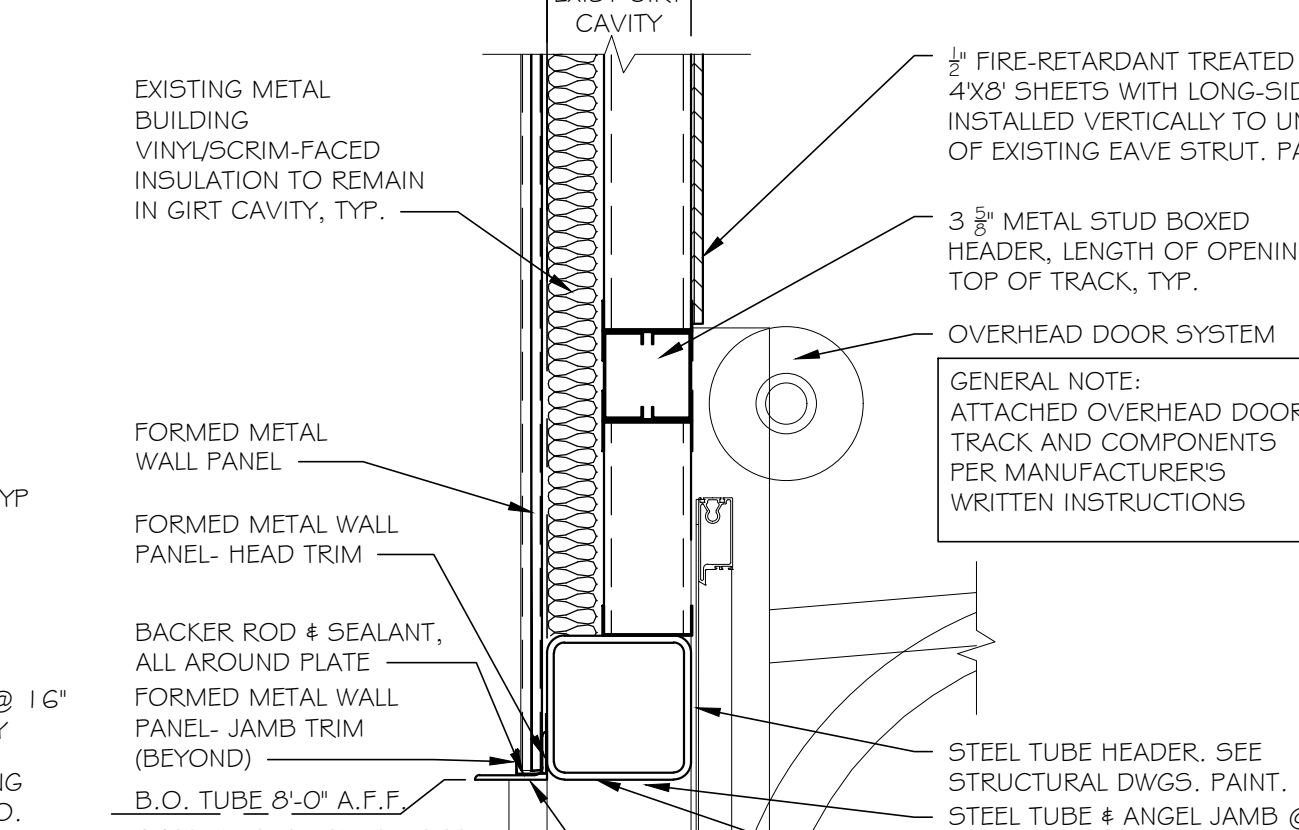
A4 METAL PANEL CORNER DETAIL
A-501 1/12=1'-0"



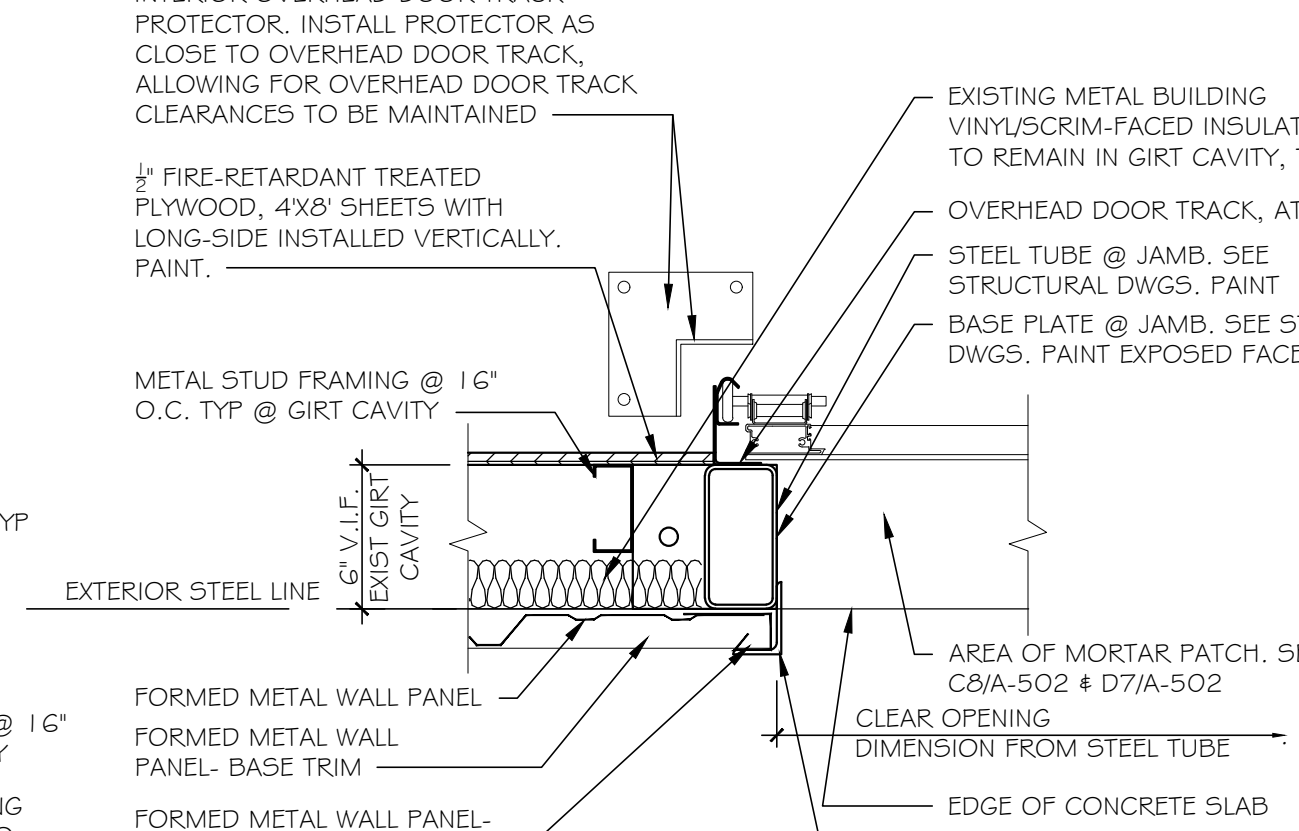
D6 ROOF RIDGE DETAIL
A-501 1/12=1'-0"



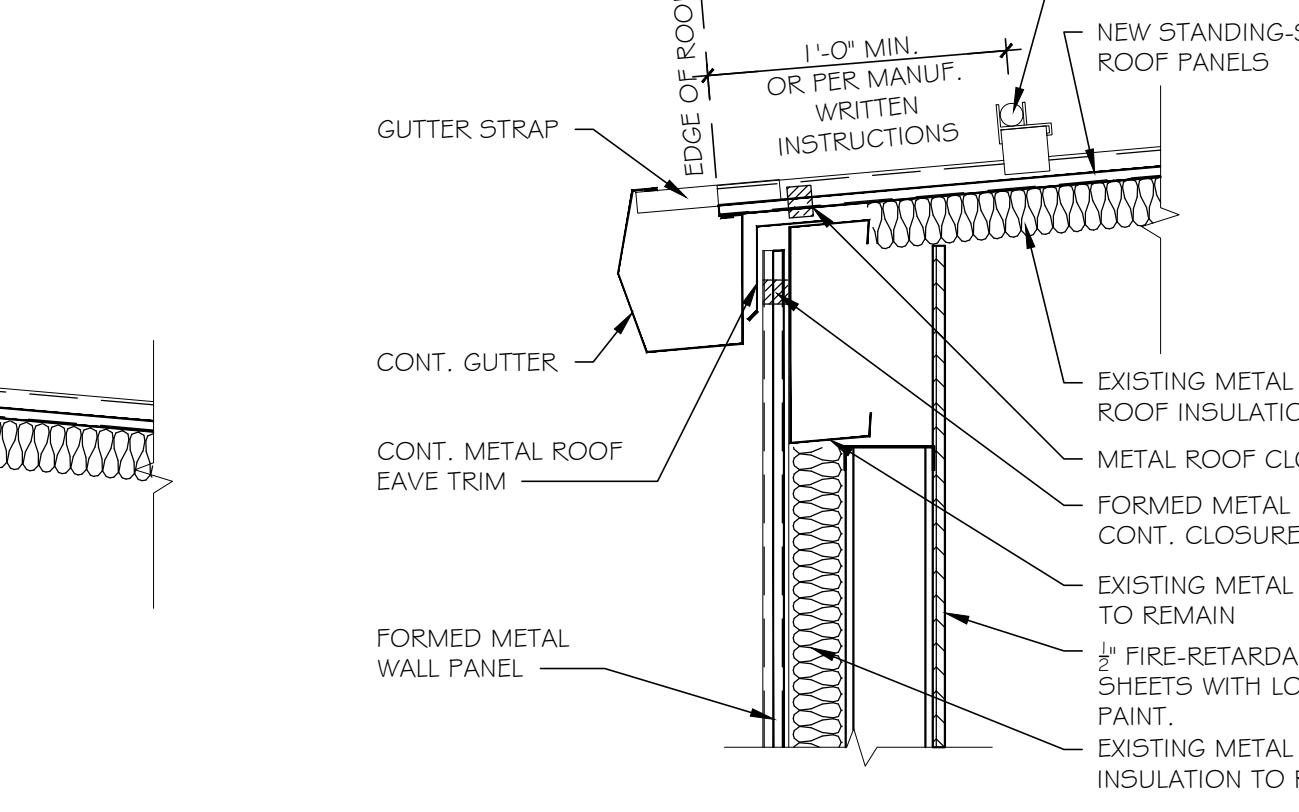
C6 METAL PANEL BASE DETAIL
A-501 1/12=1'-0" TYP @ EXTENDED FOUNDATION



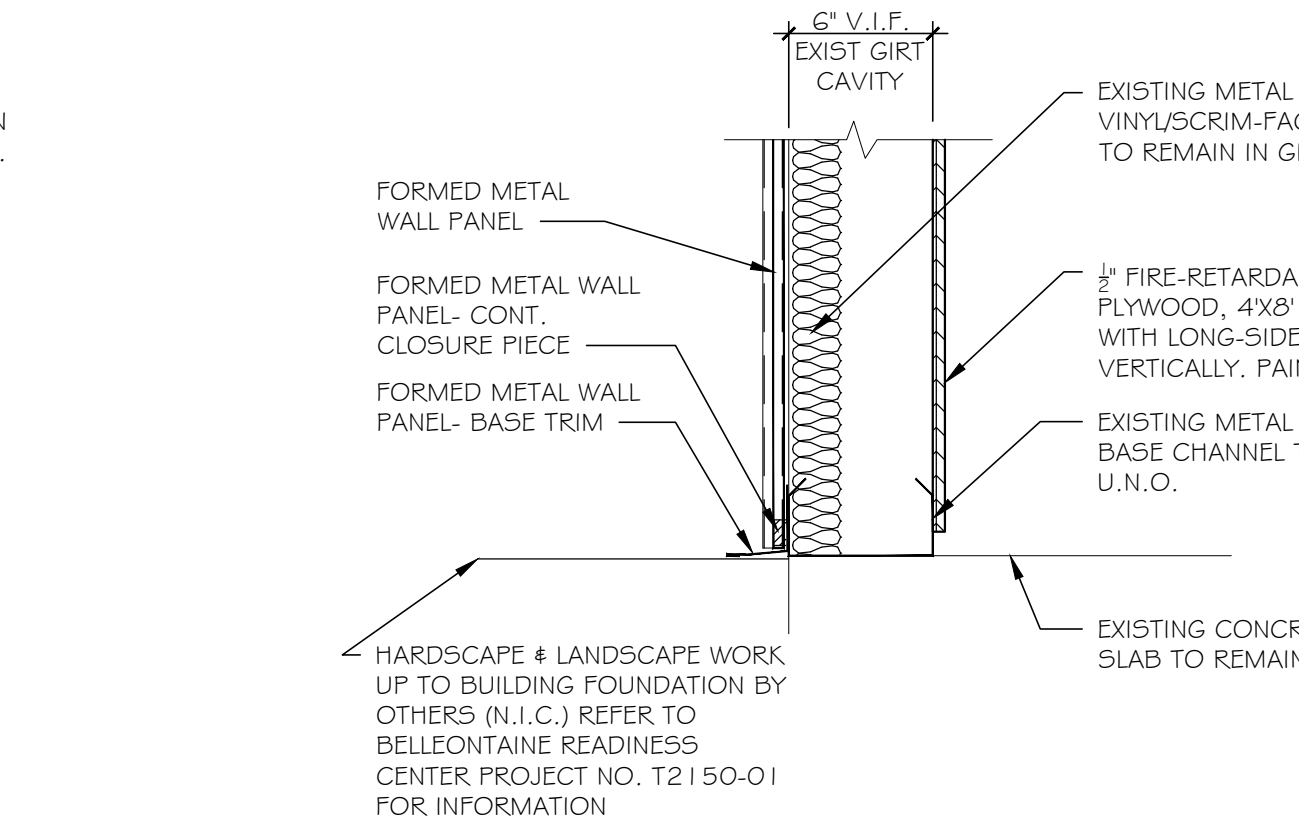
B8 DOOR FRAME (HMF-1) HEAD DETAIL
A-501 1/12=1'-0"



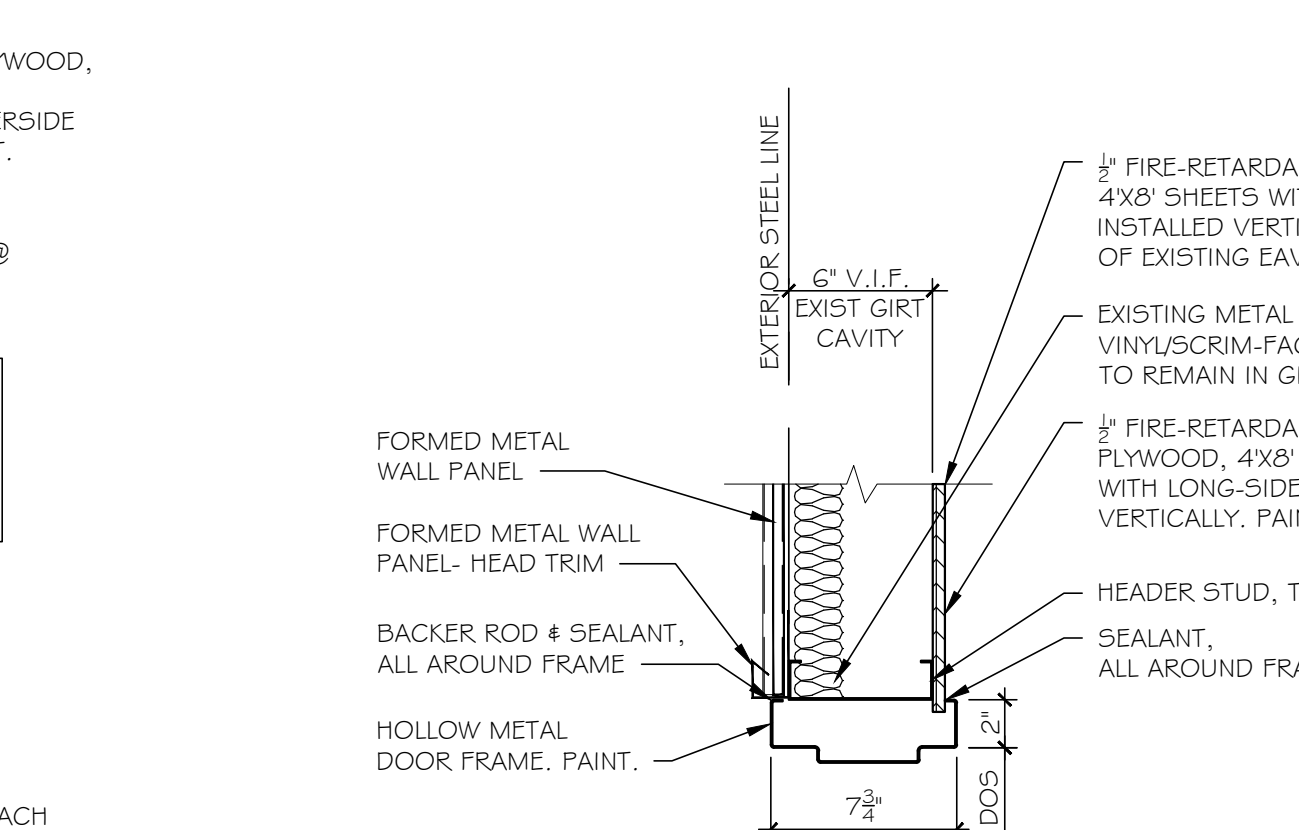
A6 OVERHEAD DOOR (OVHD) JAMB DETAIL
A-501 1/12=1'-0"



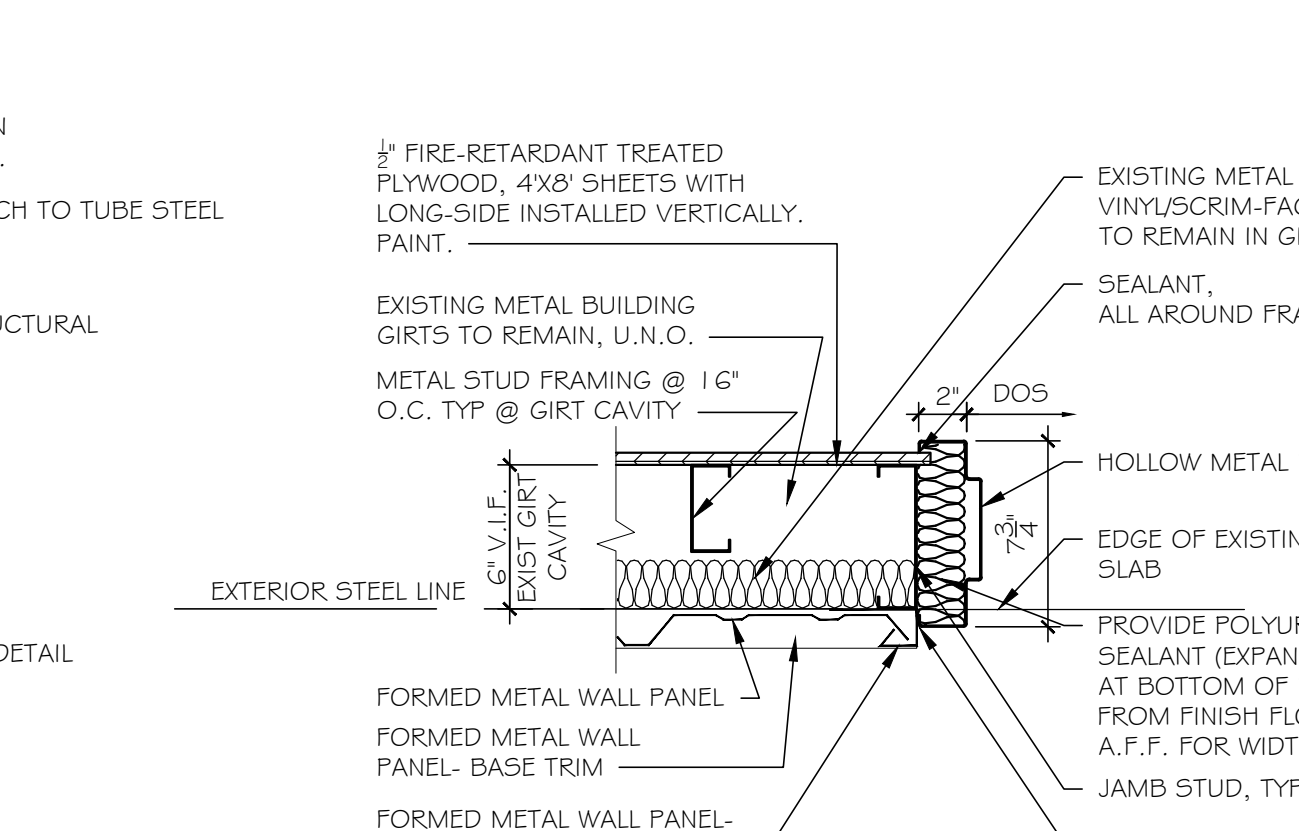
D8 GUTTER/EAVE EDGE DETAIL
A-501 1/12=1'-0"



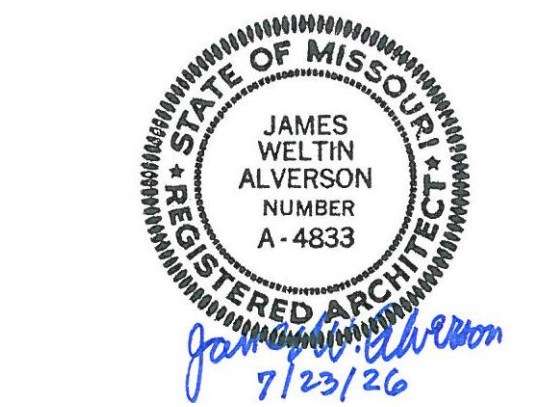
C8 METAL PANEL BASE DETAIL
A-501 1/12=1'-0"

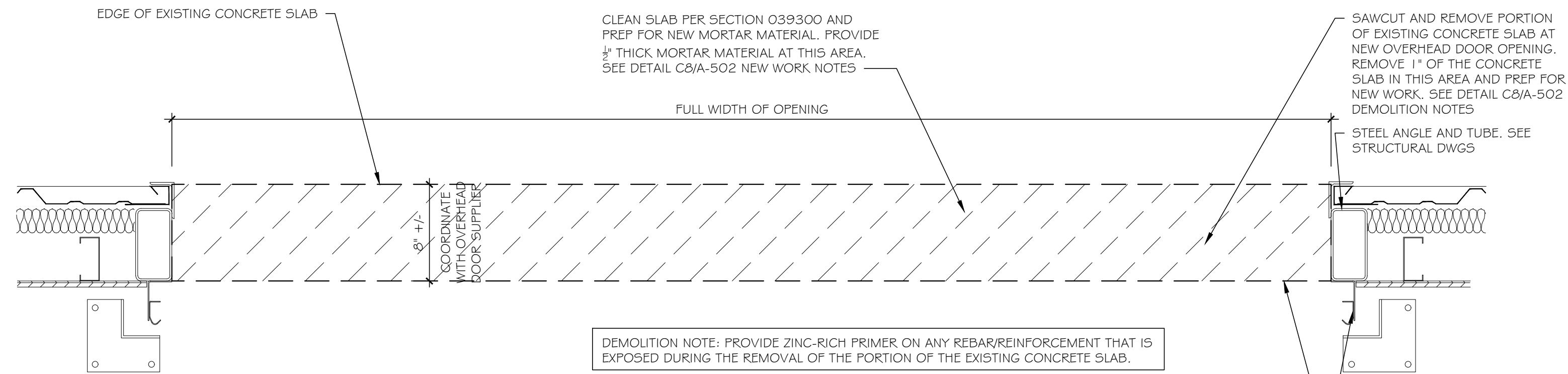
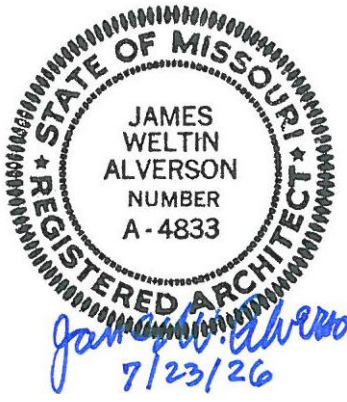


B8 DOOR FRAME (HMF-1) HEAD DETAIL
A-501 1/12=1'-0"

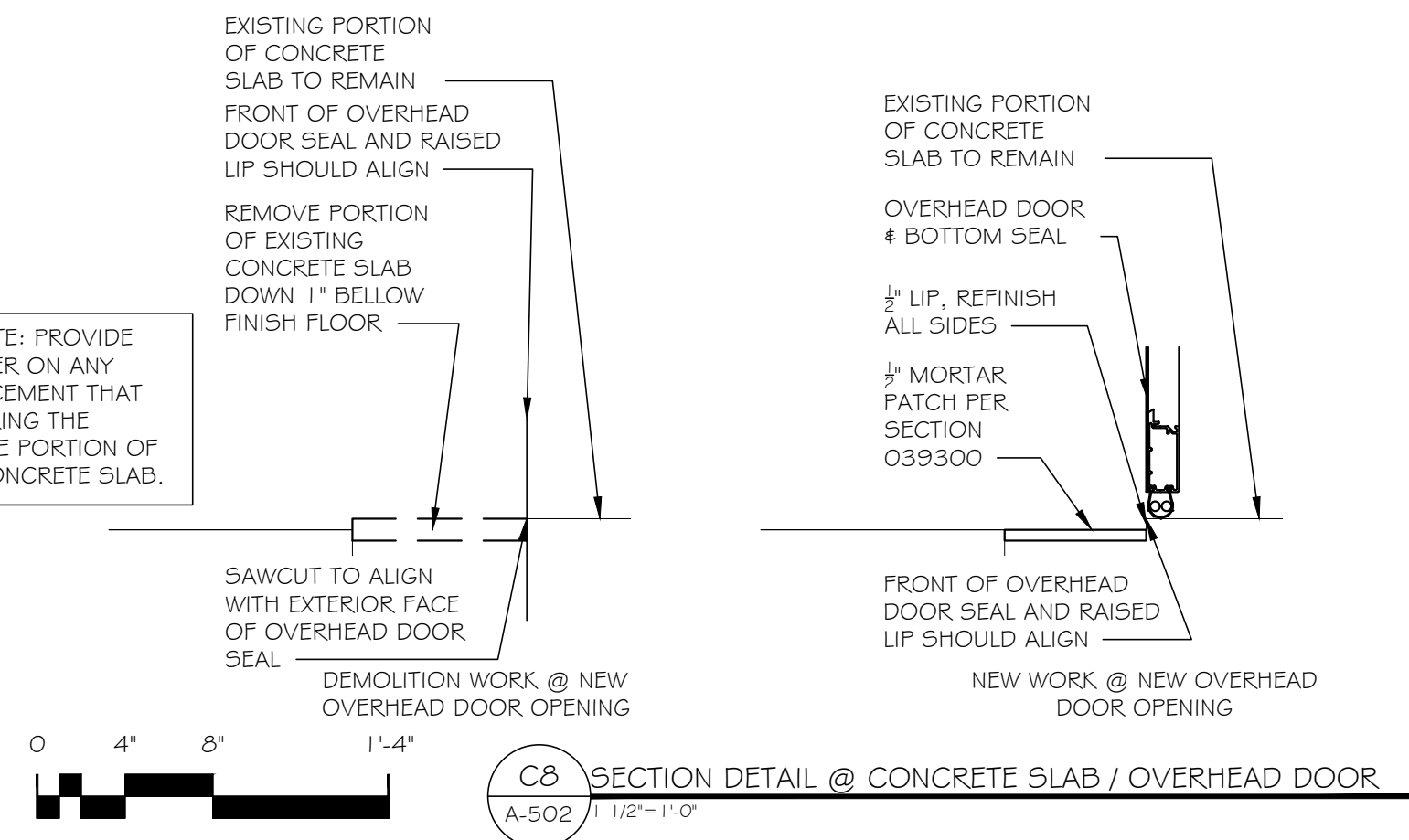


A8 DOOR FRAME (HMF-1) JAMB DETAIL
A-501 1/12=1'-0"

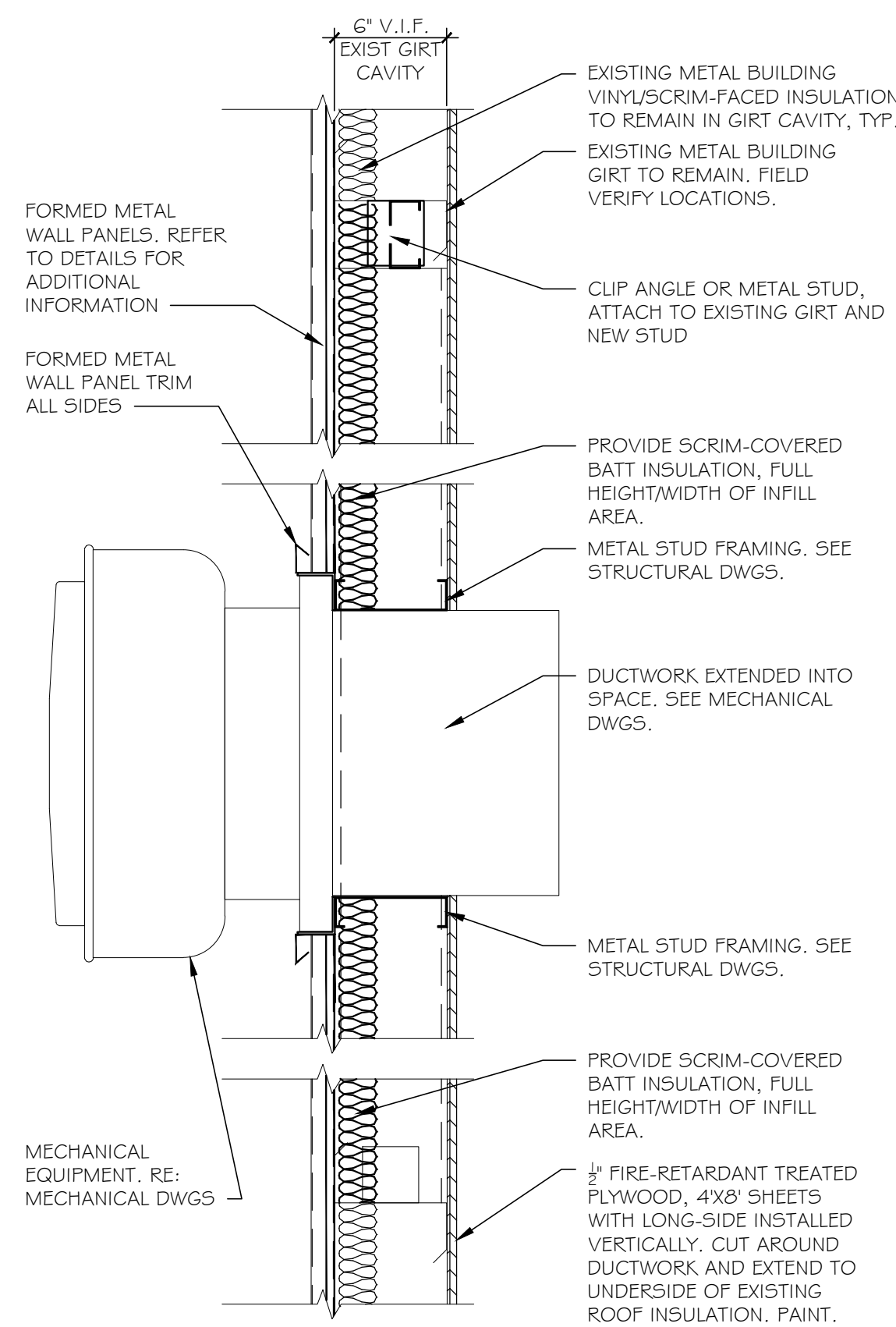




D7
A-502 1/12\"/>



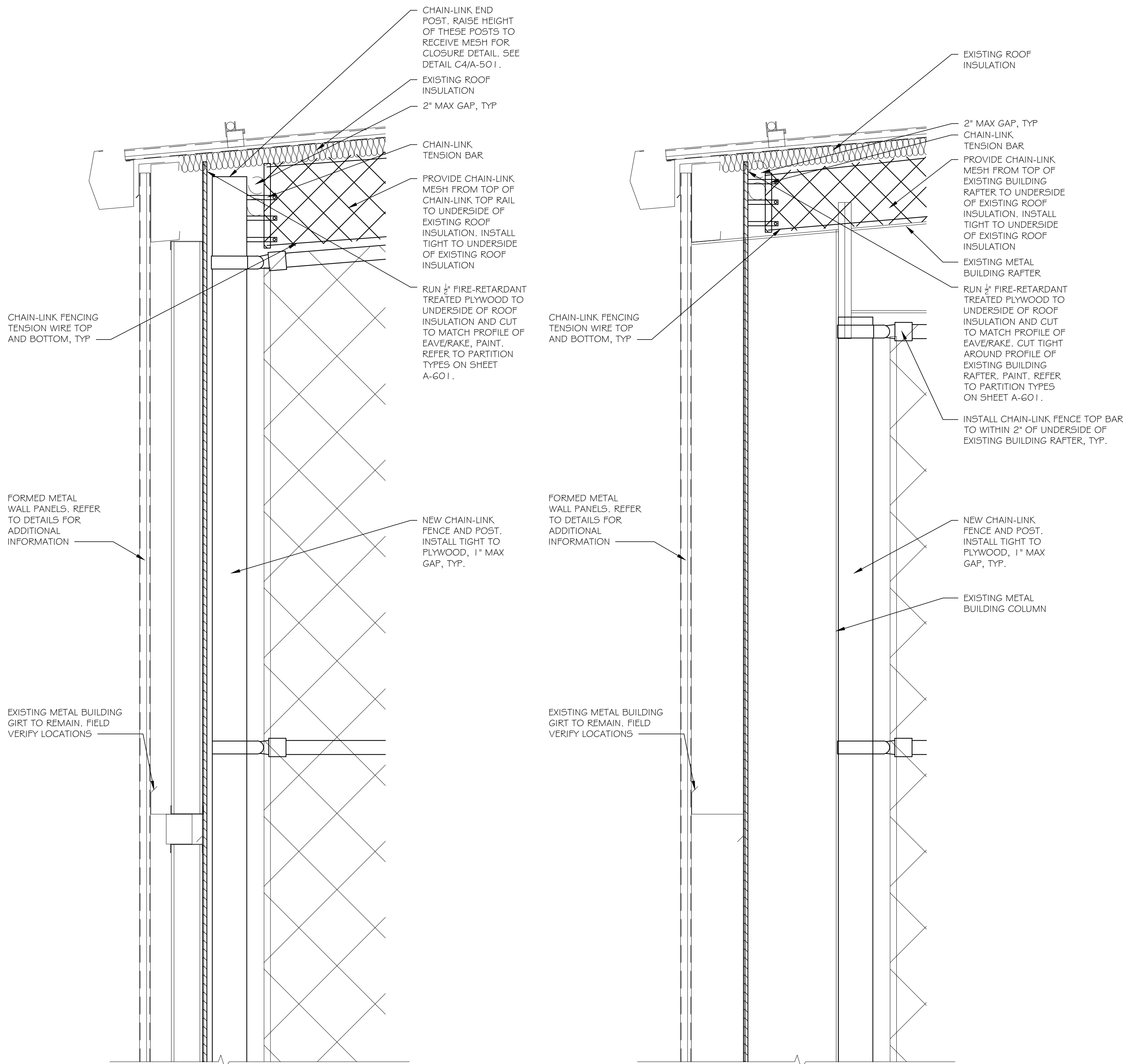
C8
A-502 1/12\"/>



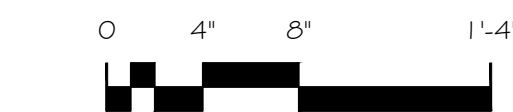
GENERAL NOTE:
DETAIL SHOWS MECHANICAL WALL
EXHAUST EQUIPMENT. PROVIDE
FRAMING AT MECHANICAL LOUVER
SIMILAR TO THIS DETAIL. SEE
STRUCTURAL SHEET S-201 FOR
FRAMING.



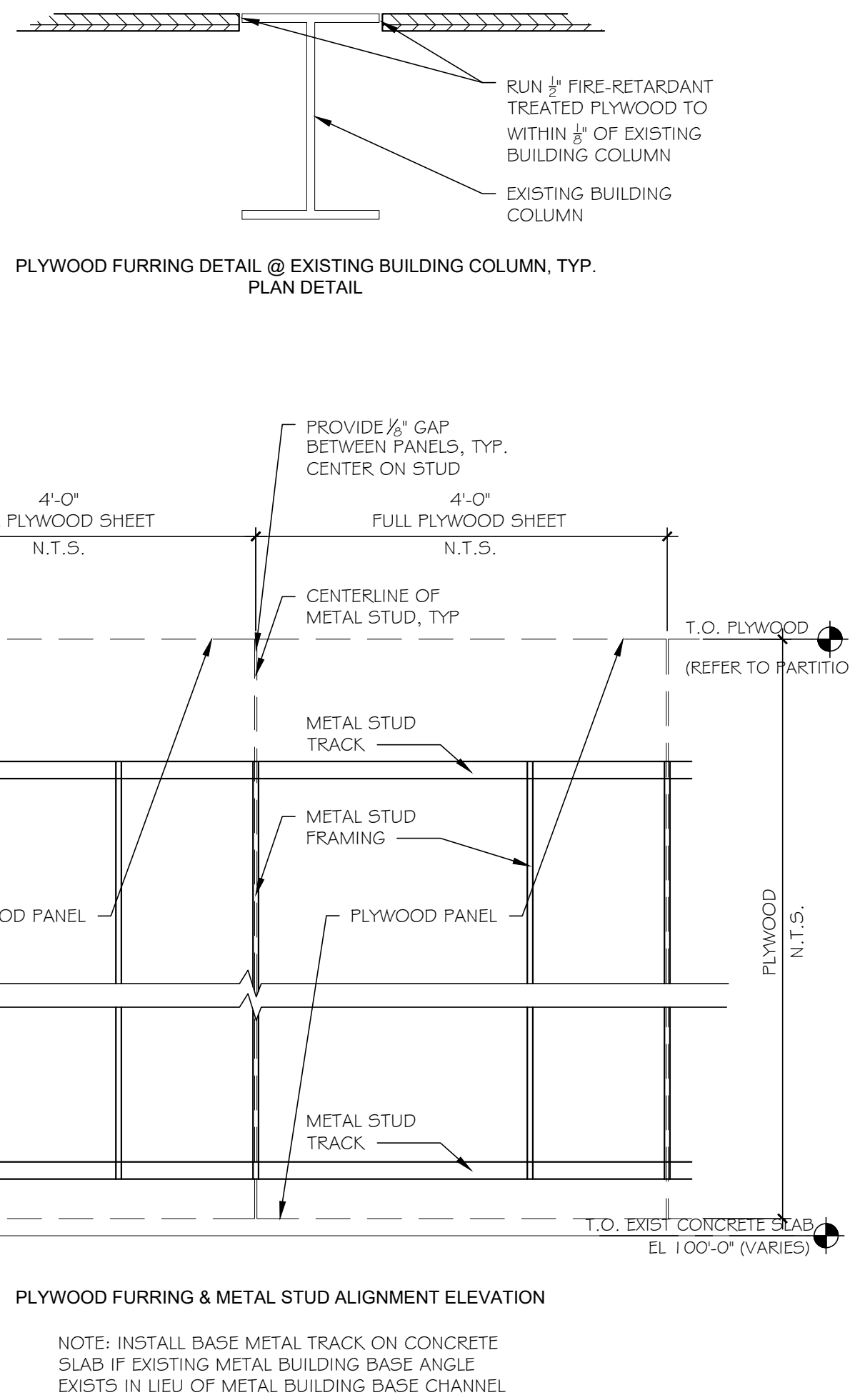
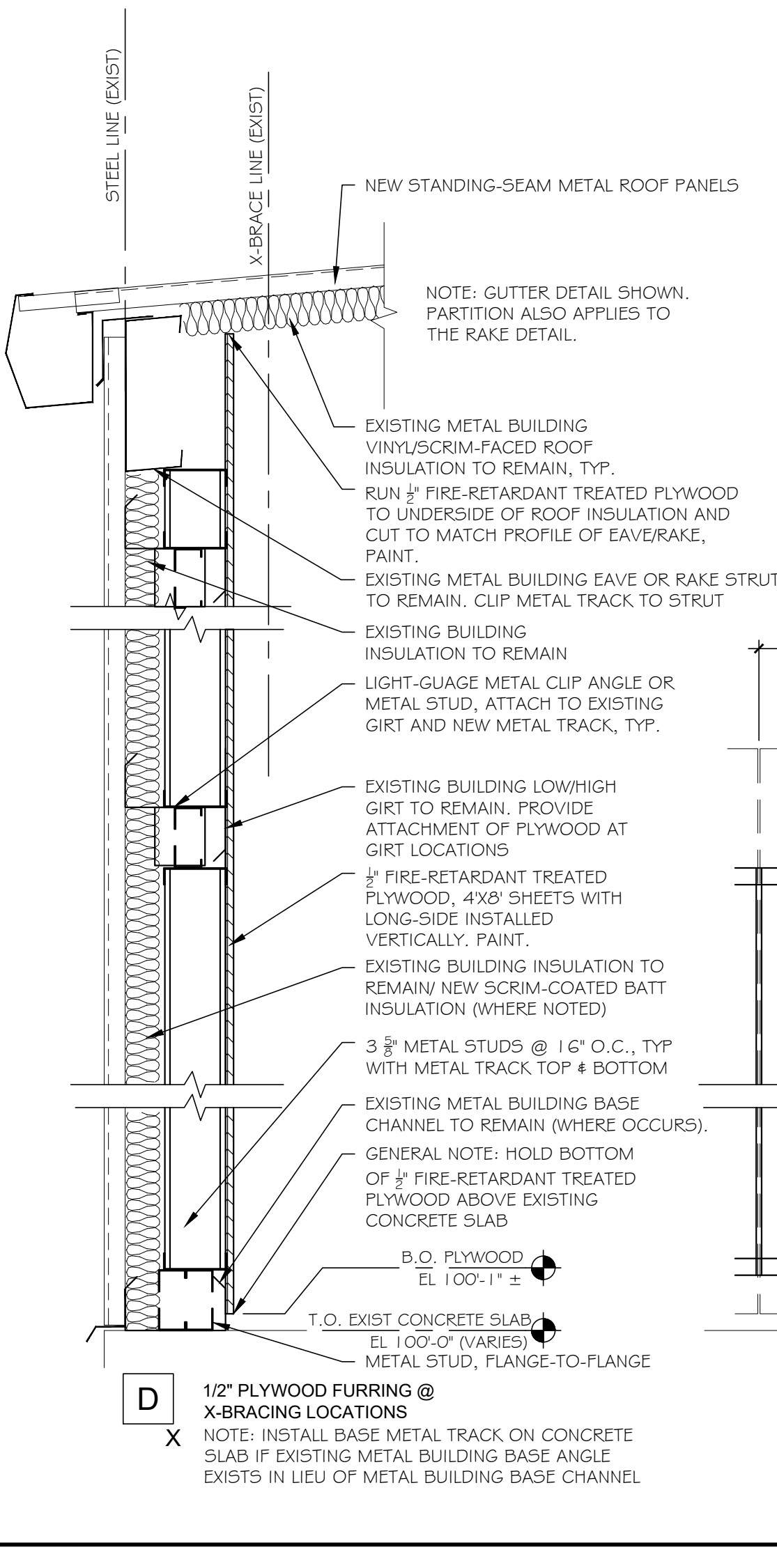
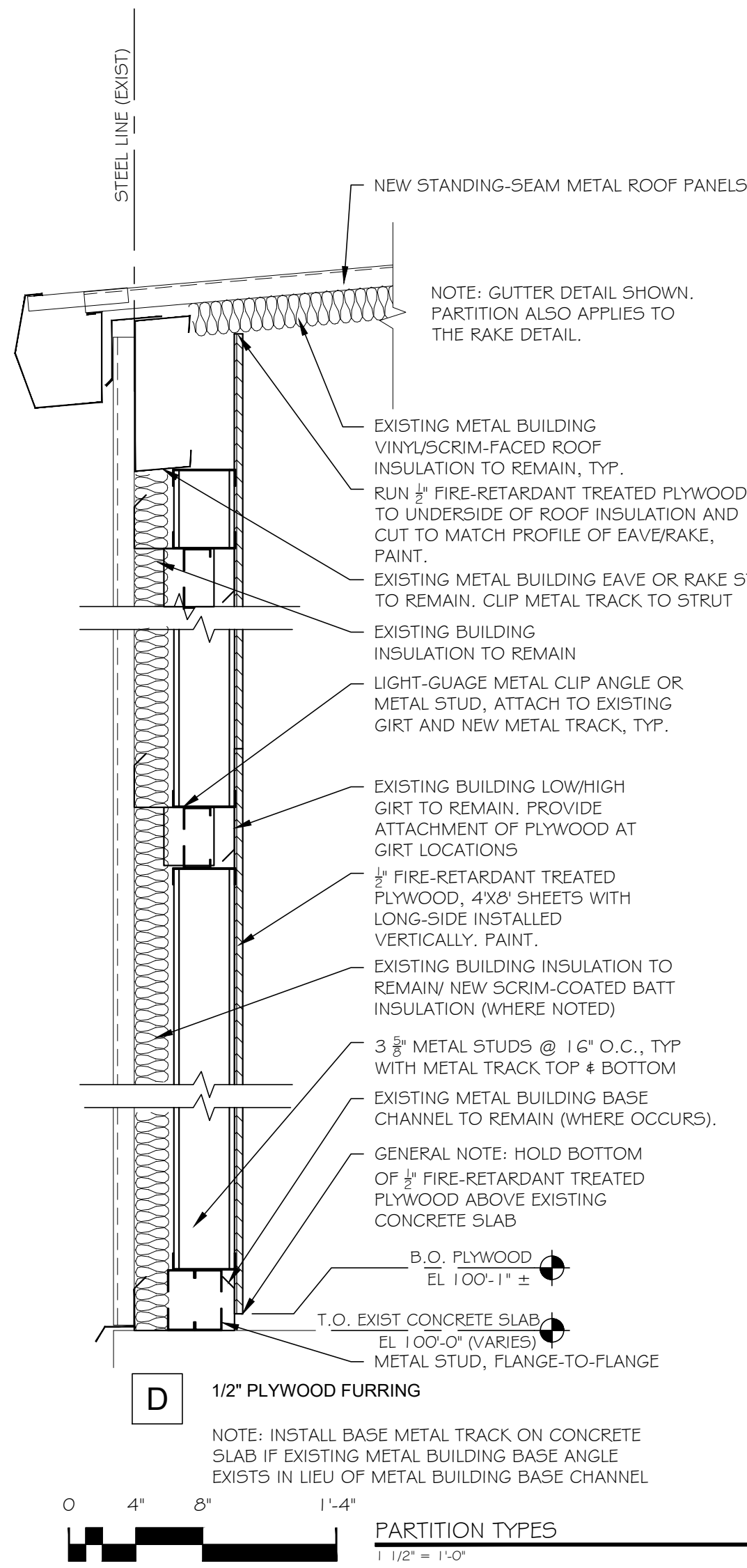
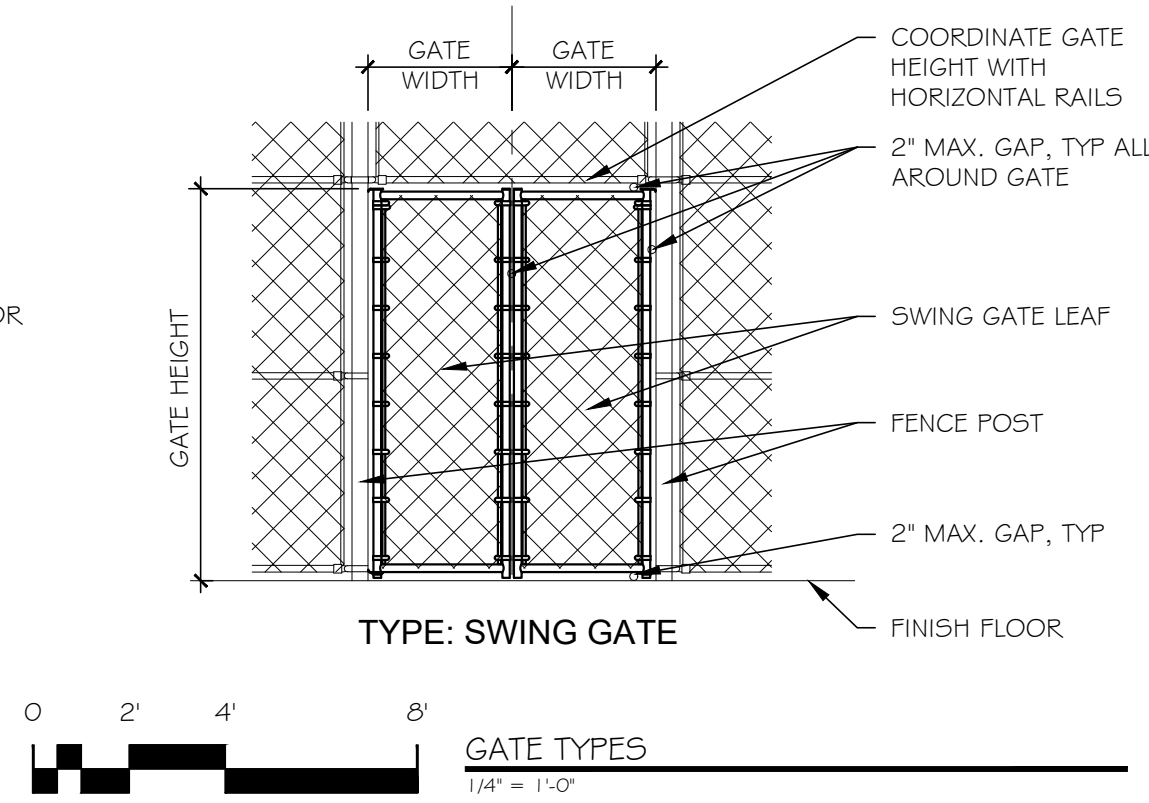
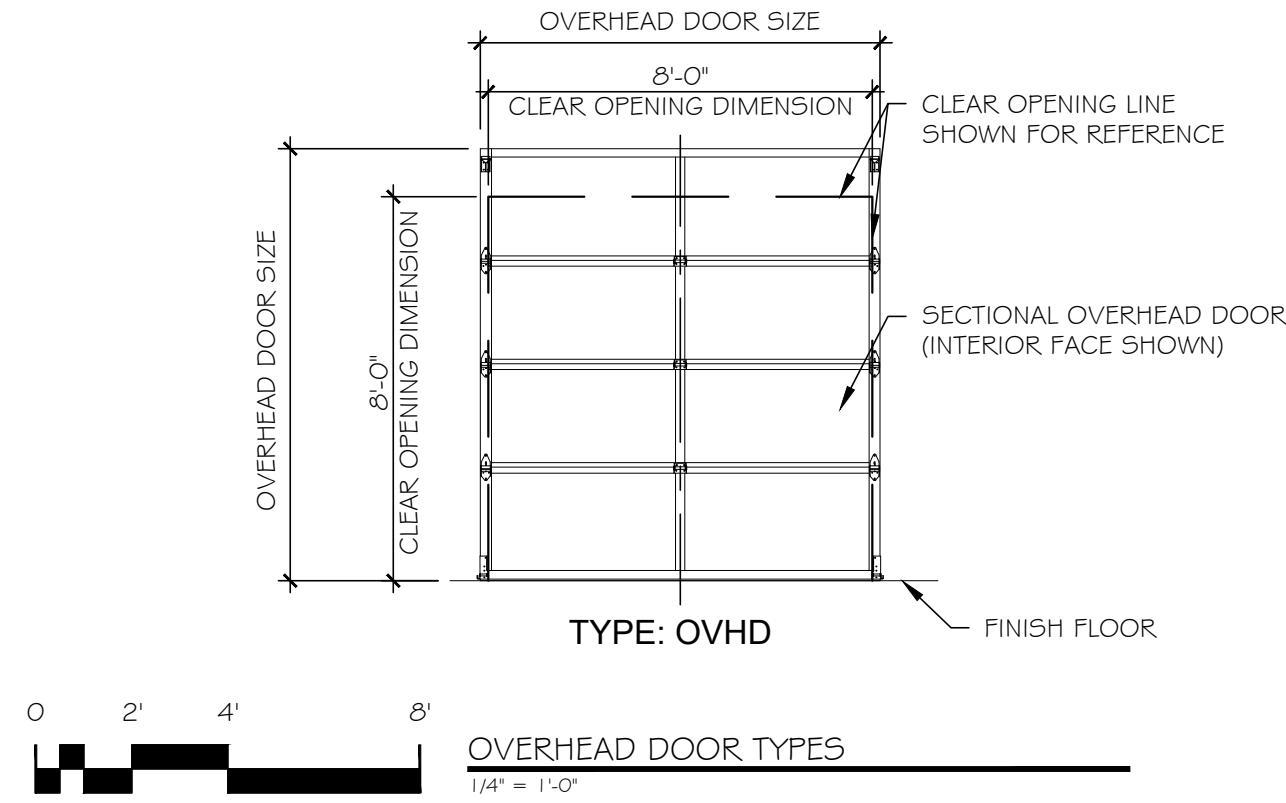
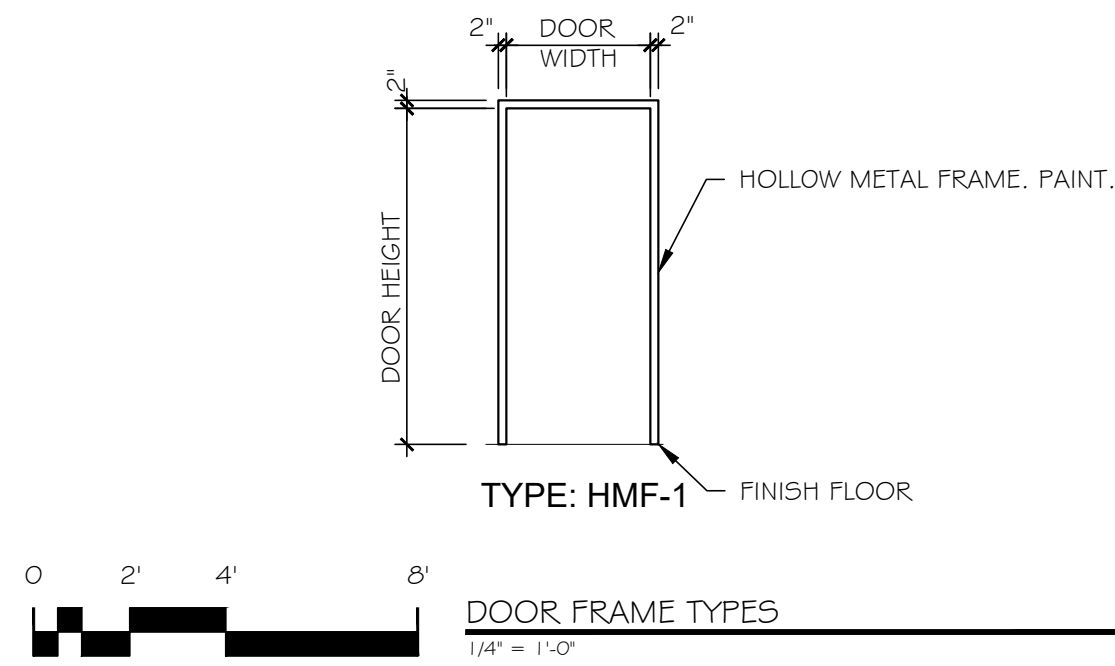
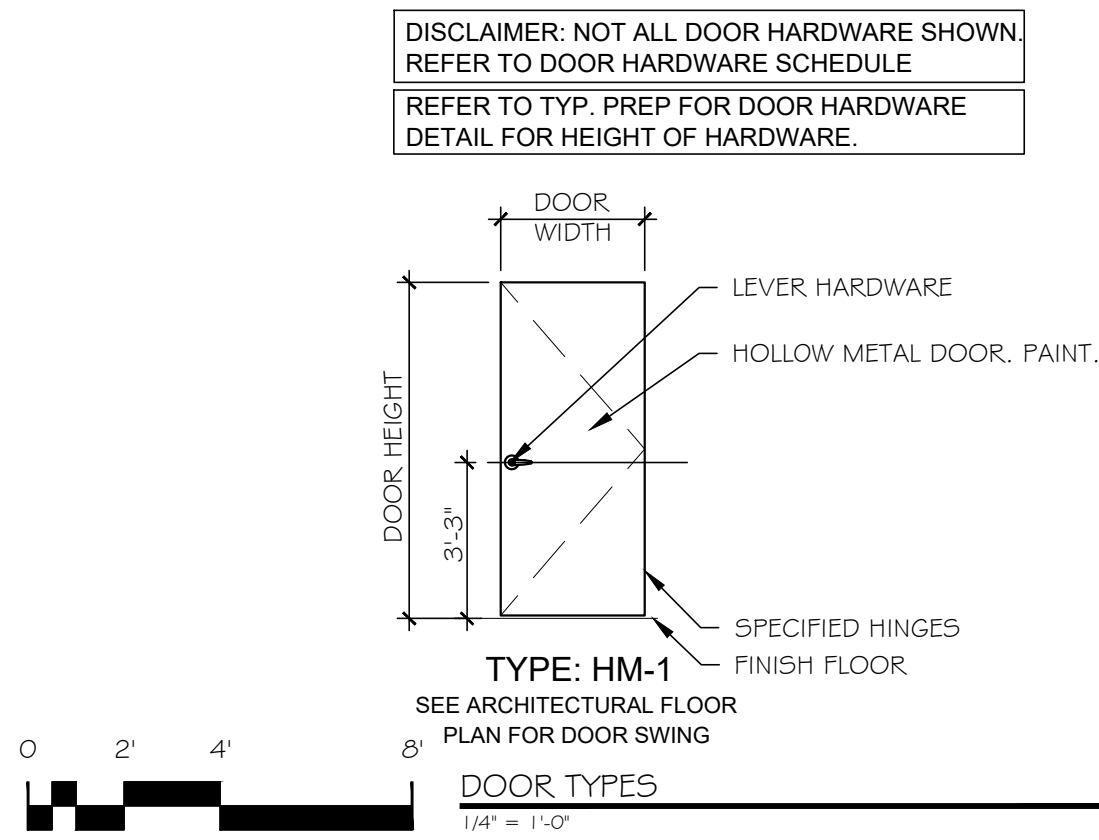
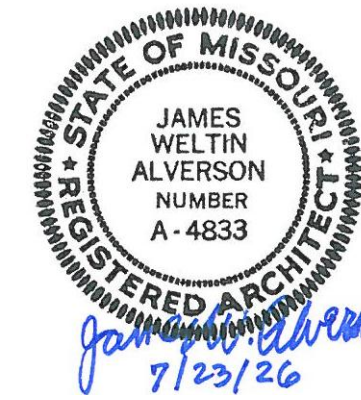
A8
A-502 1/12\"/>



A2
A-502 1/12\"/>



A4
A-502 1/12\"/>



HOLLOW METAL DOOR SCHEDULE							
NUMBER	DOOR		TYPE	TYPE	FRAME		FIRE RATING
	SIZE	DETAIL			HEAD	JAMB	
I 01	3'-0"	7'-0"	HM-1	HMF-1	B8/A-501	A8/A-501	NO RATING
I 02	3'-0"	7'-0"	HM-1	HMF-1	B8/A-501	A8/A-501	NO RATING
I 03	3'-0"	7'-0"	HM-1	HMF-1	B8/A-501	A8/A-501	NO RATING
I 04	3'-0"	7'-0"	HM-1	HMF-1	B8/A-501	A8/A-501	NO RATING

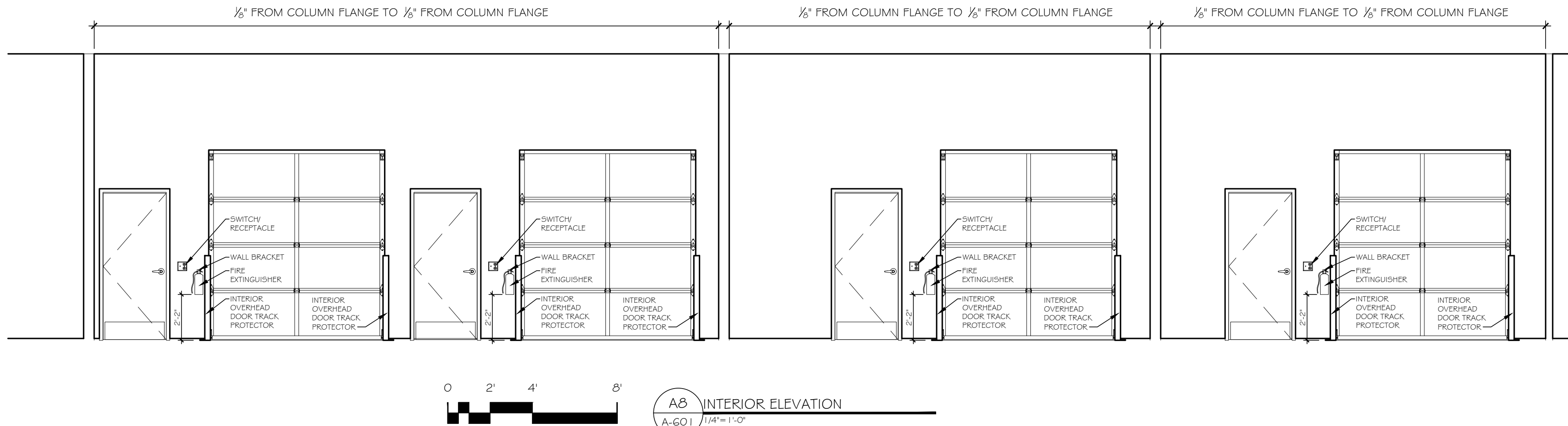
OVERHEAD DOOR SCHEDULE						
NUMBER	OVERHEAD DOOR & TRACK		TYPE	DETAIL		FIRE RATING
	CLEAR OPENING DIMENSIONS			HEAD	JAMB	
OVHD-1	8'-0" W x 8'-0" H		OVHD	B6/A-501	A6/A-501	NO RATING
OVHD-2	8'-0" W x 8'-0" H		OVHD	B6/A-501	A6/A-501	NO RATING
OVHD-3	8'-0" W x 8'-0" H		OVHD	B6/A-501	A6/A-501	NO RATING
OVHD-4	8'-0" W x 8'-0" H		OVHD	B6/A-501	A6/A-501	NO RATING

SWING GATE SCHEDULE					
NUMBER	GATE LEAF		DETAIL		FIRE RATING
	DIMENSIONS		HEAD	JAMB	
GATE-1	PAIR 3'-0" W x 8'-0" H		N/A	N/A	NO RATING
GATE-2	PAIR 3'-0" W x 8'-0" H		N/A	N/A	NO RATING
GATE-3	PAIR 3'-0" W x 8'-0" H		N/A	N/A	NO RATING
GATE-4	PAIR 3'-0" W x 8'-0" H		N/A	N/A	NO RATING
GATE-5	PAIR 3'-0" W x 8'-0" H		N/A	N/A	NO RATING
GATE-6	PAIR 3'-0" W x 8'-0" H		N/A	N/A	NO RATING
GATE-7	PAIR 3'-0" W x 8'-0" H		N/A	N/A	NO RATING

DOOR SCHEDULE NOTES	
GENERAL	COORDINATE WITH DOOR HARDWARE SCHEDULE.
NOTE 1	PAINT EXPOSED DOOR FRAME AND DOOR FACES COMPLETELY.
NOTE 2	OVERHEAD DOOR DIMENSIONS ARE SHOWN AS CLEAR OPENING DIMENSIONS. COORDINATE ACTUAL DOOR AND TRACK DIMENSIONS.
NOTE 3	PROVIDE POLYURETHANE FOAM SEALANT (EXPANDING FOAM TYP) AT BOTTOM OF DOOR FRAME, FROM FINISH FLOOR TO 1'-0" A.F.F. FOR WIDTH OF FRAME.

ROOM FINISH SCHEDULE									
NUMBER	NAME	FLOOR	BASE	WALLS			CEIL		NOTES
				N	S	E			
I 01	EXIST ACCESS HALLWAY	EC	N/A	N/A	N/A	N/A	EXP		
A	STORAGE SPACE	EC	N/A	P	N/A	P	P	EXP	NOTE 1,2
B	STORAGE SPACE	EC	N/A	N/A	N/A	P	P	EXP	NOTE 1,2
C	STORAGE SPACE	EC	N/A	N/A	N/A	P	P	EXP	NOTE 1,2
D	STORAGE SPACE	EC	N/A	N/A	N/A	P	N/A	EXP	NOTE 1,2
E	STORAGE SPACE	EC	N/A	N/A	N/A	P	N/A	EXP	NOTE 1,2
F	STORAGE SPACE	EC	N/A	N/A	N/A	P	N/A	EXP	NOTE 1,2
G	STORAGE SPACE	EC	N/A	N/A	P	P	N/A	EXP	NOTE 1,2
H	STORAGE SPACE	EC	N/A	N/A	P	N/A	P	EXP	NOTE 1,2
I	NOT USED	--	--	--	--	--	--	--	--
J	STORAGE SPACE	EC	N/A	N/A	N/A	N/A	P	EXP	NOTE 1,2
K	STORAGE SPACE	EC	N/A	N/A	N/A	N/A	P	EXP	NOTE 1,2

ROOM FINISH SCHEDULE NOTES	
GENERAL	EXISTING METAL BUILDING RIGID FRAME; COLUMNS, RAFTERS, GIRTS, PURLINS, ETC. TO REMAIN UN-PAINTED.
NOTE 1	EXPOSED CONCRETE (EC) FLOOR SLAB TO REMAIN. REMOVE ALL FLOOR MASTICS & GLUE FROM TOP OF CONCRETE. REMOVE OIL OR CHEMICAL STAINS FROM CONCRETE SLAB IN THE EXISTING GARAGE AREA.
NOTE 2	PAINT (P) NEW PLYWOOD ONLY. DO NOT TREAT PLYWOOD JOINTS.

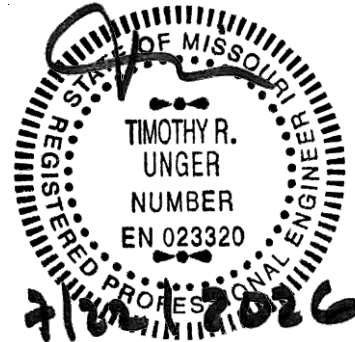


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PROJECT # T2331-01
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CAD DWG FILE: T2331-01-6322-S-001
DRAWN BY: JBM
CHECKED BY: TRU
DESIGNED BY: JBM

SHEET TITLE:

STRUCTURAL
TYPICAL DETAILS

SHEET NUMBER:

S-001

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07/23/2006

GENERAL STEEL NOTES

- ALL STRUCTURAL STEEL AND DETAILS SHALL COMPLY WITH THE LATEST AISC "SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". ALL STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS OR DRAWINGS:
A. CHANNEL SHAPES, PLATES, ANGLES & BARS - ASTM A36.
B. STEEL HSS (RECTANGULAR, SQUARE OR ROUND) - ASTM A500, GRADE C.
- SHOP AND FIELD CONNECTIONS ARE TO BE BOLTED WITH HIGH STRENGTH BOLTS OR WELDED, UNLESS NOTED OTHERWISE. ALL END CONNECTIONS SHALL BE DESIGNED ON BASIS OF AISC LOAD SPAN TABLES WITH SPECIAL CONSIDERATION GIVEN TO CONCENTRATED LOADS NEAR ENDS OF BEAMS. MINIMUM DESIGN LOAD TO BE 10,000 LBS. BOLTS TO BE 3/4" ASTM A325 (TYPE N) WITH MINIMUM 2 BOLTS PER CONNECTION. SLIP CRITICAL BOLTS ARE TO BE USED FOR CROSSBRACE CONNECTIONS TO BEAMS & COLUMNS & FOR BEAM END CONNECTIONS THAT TRANSFER BRACE LOADS TO COLUMNS.
- SHOP AND FIELD WELDING SHALL CONFORM TO THE A.W.S. D1.1 "STRUCTURAL WELDING CODE".
- WHERE EPOXY DOWELS AND ANCHORS ARE INDICATED, INSTALL PER MANUFACTURER INSTRUCTIONS WITH SIMPSON SET-3G, ITW RAMSET/REDHEAD EPCON 65+ EPOXY SYSTEM, U.N.O.
- ADHESIVE ANCHORS ARE TO BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION. CONCRETE SHALL HAVE A MAXIMUM TEMPERATURE OF 142° SHORT-TERM AND 110° LONG-TERM. HOLE SHALL BE DRY AND CLEANED PER MANUFACTURER INSTRUCTIONS.
- CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR POST-INSTALLED ANCHORING PRODUCTS SPECIFIED. SUBMIT DOCUMENTATION CONFIRMING THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL POST-INSTALLED ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
- CONCRETE REINFORCING MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. REINFORCING SHALL NOT BE CUT, U.N.O. CONTRACTOR SHALL REVIEW STRUCTURAL DRAWINGS AND SHALL LOCATE THE POSITION OF REINFORCING AT THE LOCATIONS OF POST-INSTALLED ANCHORS.

GENERAL NOTES

IN FIELD LAYOUT AND SHOP DETAILING, THE CONTRACTOR MUST VERIFY AND COORDINATE DIMENSIONS ON ARCHITECTURAL MECHANICAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT. ALL EXISTING DIMENSIONS AND CONDITIONS MUST BE FIELD VERIFIED BY CONTRACTOR.

LIGHT GAUGE STEEL FRAMING NOTES

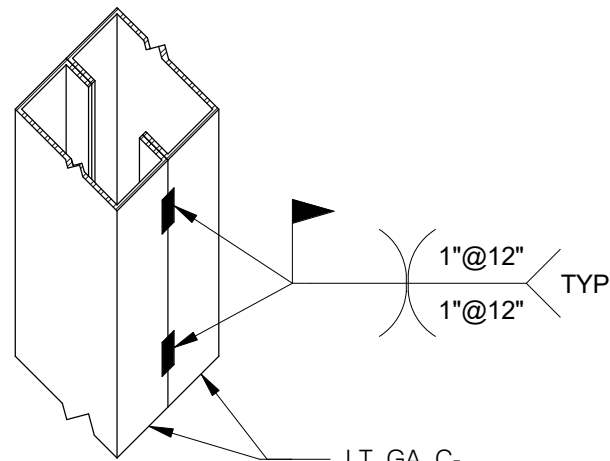
- ALL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.
- ALL FRAMING MEMBERS SHALL BE FORMED FROM CORROSION RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A653-11.
- ALL MEMBERS SHOWN ARE STANDARD DESIGNATIONS OF "DIETRICH METAL FRAMING."
- DESIGN OF MEMBERS INDICATED ON STRUCTURAL DRAWINGS IS BASED ON MINIMUM PROPERTIES AS GIVEN IN "COLD FORMED STRUCTURAL FRAMING PRODUCTS: TECHNICAL DESIGN GUIDE" CLARK/DIETRICH CD-STF-TECH GUIDE 2/12 NO SUBSTITUTION OF MATERIALS IS ACCEPTABLE FOR USE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. SUBSTITUTIONS SHALL MEET OR EXCEED ALL PROPERTIES OF PRODUCTS PRODUCED BY DIETRICH.
- SUBMIT MANUFACTURER'S CUT SHEETS AND ERECTOR'S SHOP DRAWINGS FOR STRUCTURAL ENGINEER'S REVIEW, INDICATING LAYOUT, SPACING, TYPE, MATERIAL/MEMBER PROPERTIES AND ALL DETAILS OF CONNECTIONS FOR ALL LIGHT GAUGE STEEL FRAMING INDICATED ON THE STRUCTURAL DRAWINGS.
- ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR AN ANGULAR FIT TIGHT AGAINST ABUTTING MEMBERS.
- AXIALLY LOADED STUDS SHALL BE INSTALLED IN A MANNER WHICH WILL ASSURE THAT THEIR ENDS ARE POSITIONED TIGHT AGAINST THE INSIDE OF RUNNER WEBS PRIOR TO FASTENING.
- CUTTING OF STEEL FRAMING MEMBERS MAY BE DONE WITH A SAW OR CUTTING SHEARS. TORCH CUTTING OF LOAD BEARING MEMBERS IS NOT PERMITTED.
- GC SHALL PROVIDE TO THE LIGHT GAUGE FRAMING SUPPLIER A COMPREHENSIVE SET OF CALCULATIONS AND LOADING DIAGRAMS COLLECTED FROM ALL RELEVANT TRADES SHOWING THEIR DESIGN LOADS THAT ARE SUPERIMPOSED ON THE LIGHT GAUGE FRAMING SYSTEM. DESIGN CALCULATIONS PREPARED BY LIGHT GAUGE FRAMING SUPPLIER'S ENGINEER SHALL INCORPORATE ALL SUPERIMPOSED LOADS FOR ALL RELEVANT TRADES INCLUDING, BUT NOT LIMITED TO, THE CURTAIN WALL AND LOUVER SUPPLIER. LIGHT GAUGE FRAMING AND CONNECTION ASSEMBLIES SHALL BE DESIGNED AND SIZED TO RESIST ALL DESIGN, AS WELL AS, SUPERIMPOSED DESIGN LOADS. GC SHALL COORDINATE SUBMITTALS AND SUPPLY LIGHT GAUGE FRAMING SUPPLIER WITH ALL REVISED LOAD DATA AS IT BECOMES AVAILABLE FROM THE RELEVANT TRADES THROUGHOUT THE PROJECT AND CONFIRM LIGHT GAUGE FRAMING SUPPLIER'S FINAL SUBMITTAL AND INSTALLATION HAS BEEN FULLY COORDINATED WITH THOSE OF THE RELEVANT TRADES.
- LIGHT GAUGE FRAMING SUPPLIER TO SUBMIT CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONSTRUCTION. ENGINEER TO SUBMIT SIGNED AND SEALED LETTER INDICATING REVIEW OF ALL LIGHT GAUGE SHOP DRAWING SUBMITTALS.

DEFERRED SUBMITTAL NOTES:

THE FOLLOWING ITEMS ARE DEFERRED SUBMITTALS TO THE BUILDING OFFICIAL PER IBC SECTION 107.3.4.1. ENGINEER OF RECORD, ARCHITECT AND OWNER SHALL REVIEW AND APPROVE THE SUBMITTED SHOP DRAWING AFTER BUILDING PERMIT ISSUANCE AND PRIOR TO FABRICATION AND INSTALLATION.

- COLD-FORMED STEEL STUDS. *

ITEMS WITH AN ASTERISK (*) REQUIRE SIGNED AND SEALED CALCULATIONS BY LICENSED PROFESSIONAL ENGINEER IN THE STATE FOR WHICH WORK IS BEING PERFORMED.



TYPICAL MULTIPLE
STUD ATTACHMENT

DESIGN INFORMATION

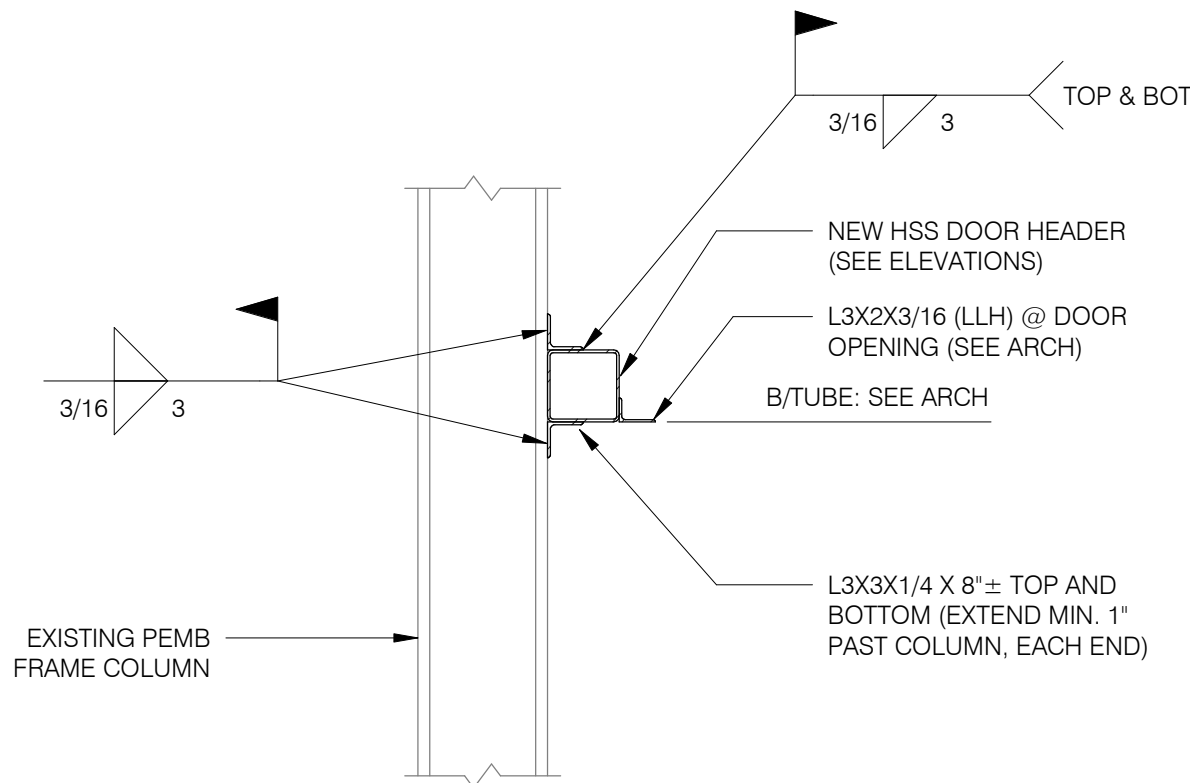
- BUILDING CODE: IBC 2021, as amended by the State of Missouri
- WIND LOAD:
A. ULTIMATE DESIGN WIND SPEED (MPH) $V_{ult} = 115$
B. NOMINAL DESIGN WIND SPEED (MPH) $V_{nom} = 89$
C. RISK CATEGORY II
D. WIND EXPOSURE CATEGORY C
E. INTERNAL PRESSURE COEFFICIENT $GCF = +0.18, -0.18$
F. DESIGN WIND PRESSURE FOR COMPONENTS AND CLADDING BY OTHERS: $(27.4 \text{ psf}) \times [GCF] \cdot (\pm 0.18)$
- EARTHQUAKE DESIGN DATA:
A. RISK CATEGORY II
B. IMPORTANCE FACTOR $I_p = 1.0$
C. SITE CLASS D
D. SPECTRAL ACCELERATION PARAMETERS:
 $S_s = 0.48g$
 $S_1 = 0.18g$
 $F_a = 1.416$
 $F_v = 2.080$
 $S_{ds} = 0.453$
 $S_{d1} = 0.250$
E. SEISMIC DESIGN CATEGORY D
F. BASIC STRUCTURAL SYSTEM EXISTING PRE-ENGINEERED MOMENT FRAMES

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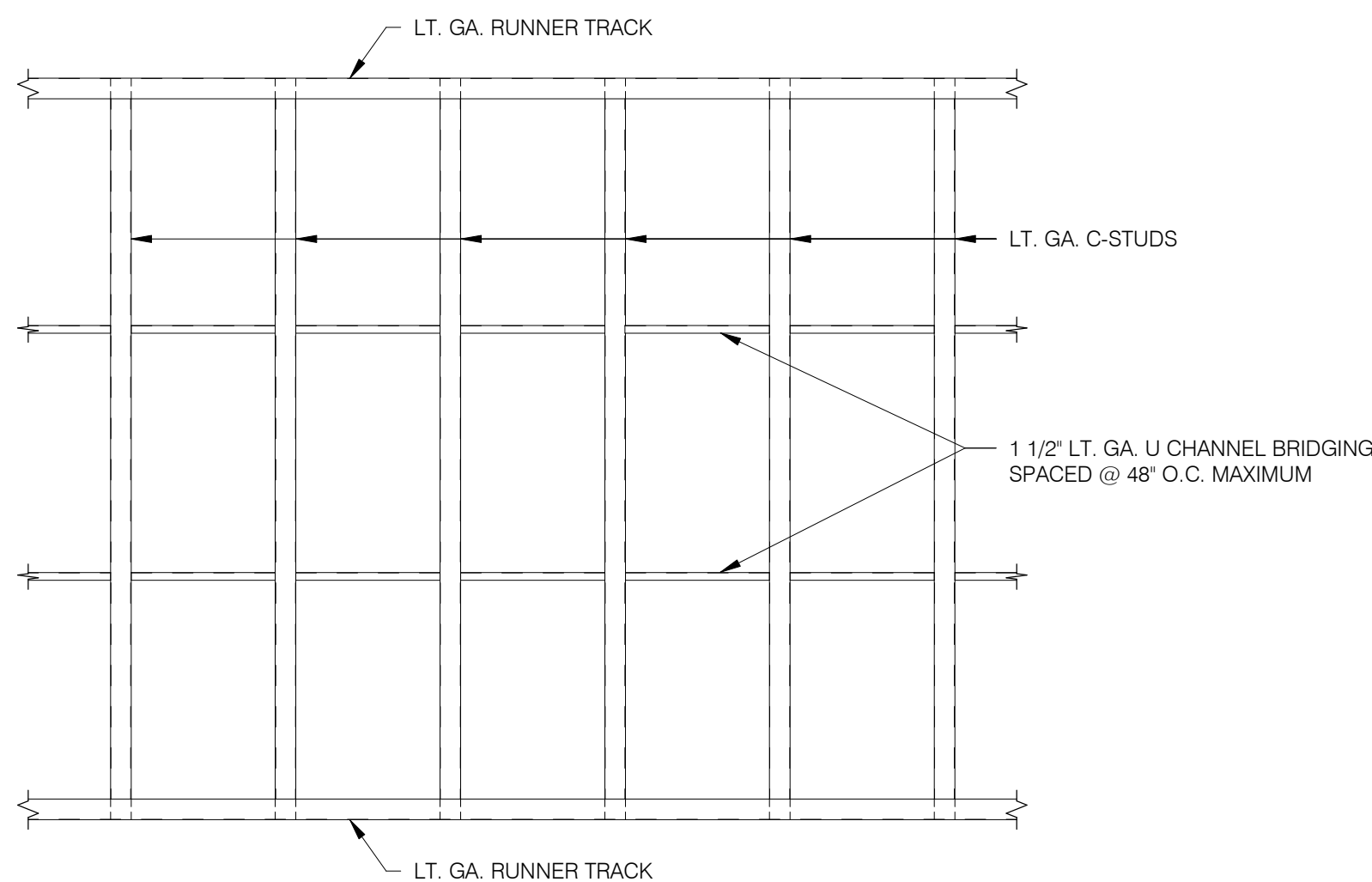
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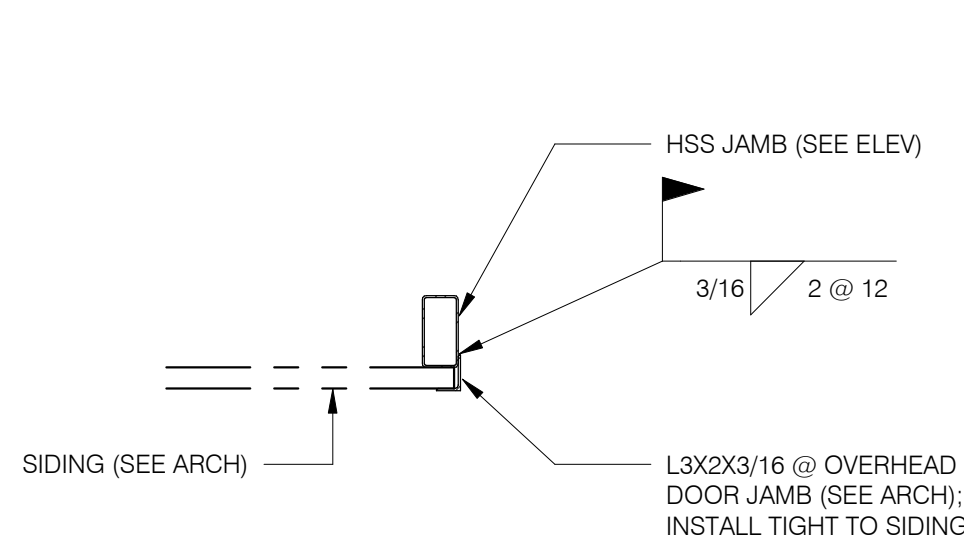
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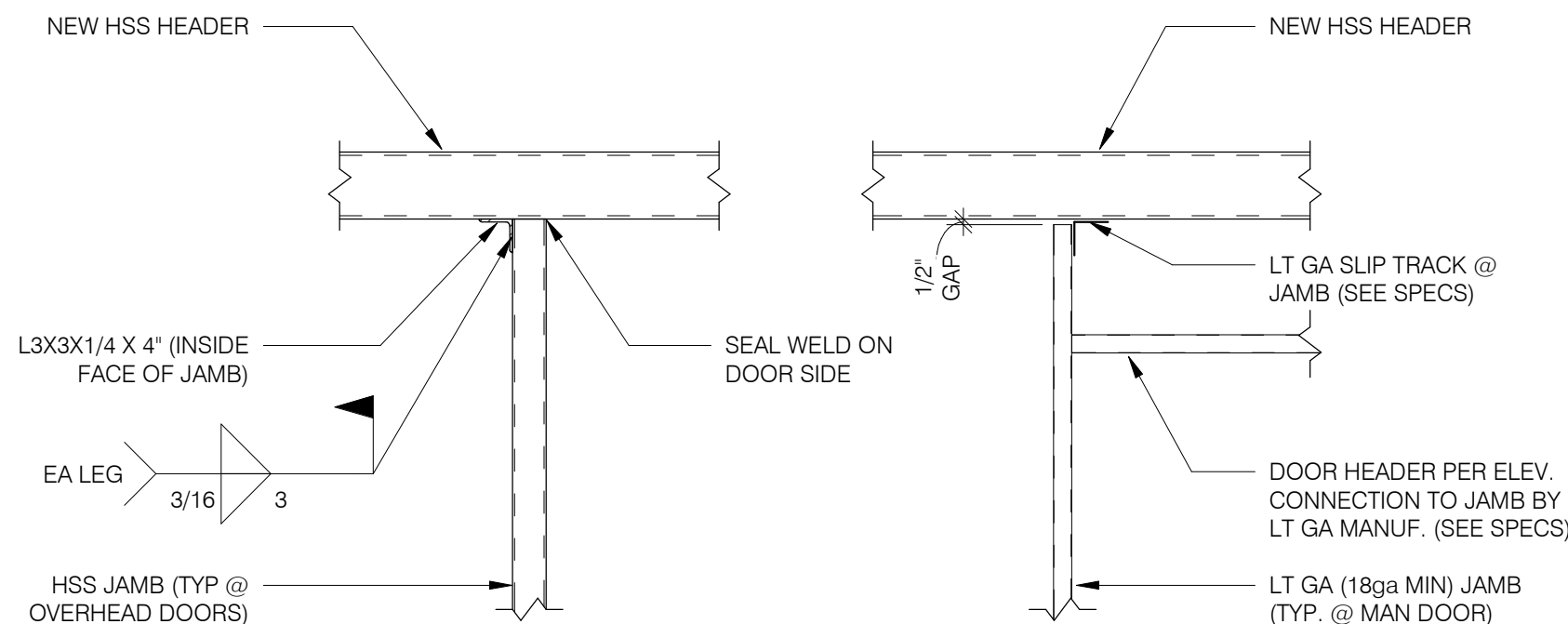
TYPICAL NEW STEEL TUBE HEADER TO
EXISTING BUILDING FRAME CONNECTION



WALL C-STUDS HORIZONTAL BRIDGING

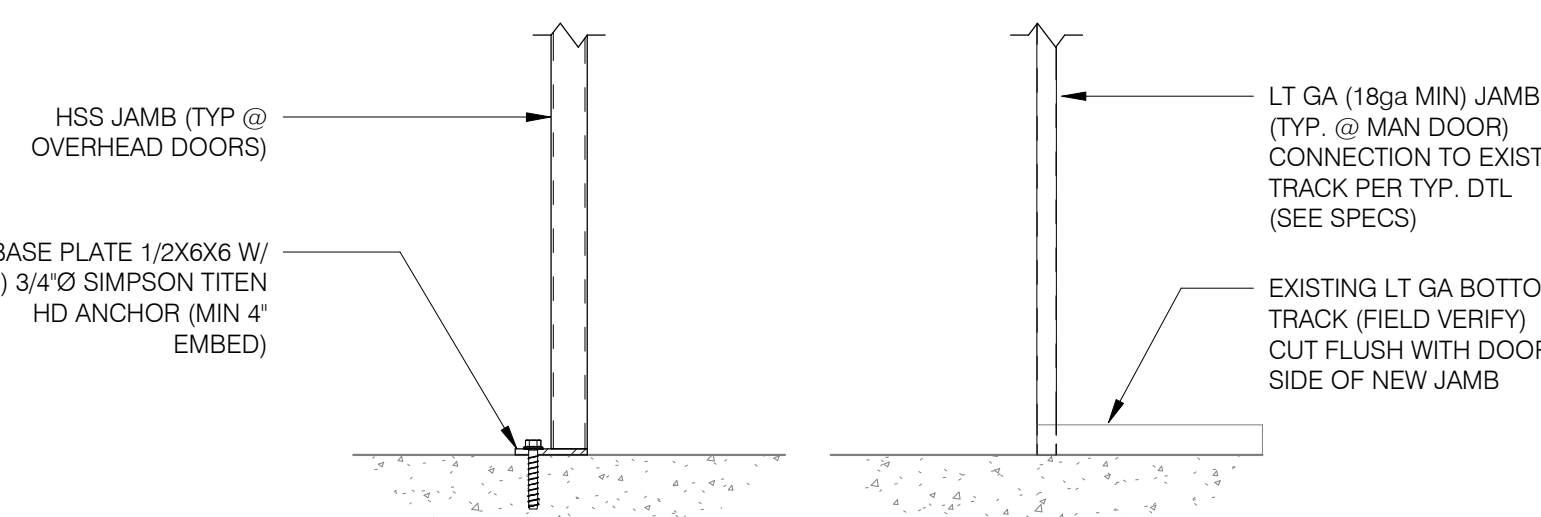


TYPICAL CLOSURE ANGLE AT
OVERHEAD DOOR JAMB - PLAN VIEW



TYPICAL NEW JAMB TO TUBE
HEADER CONNECTION

(SEE DETAIL FOR CLOSURE ANGLE AT JAMB)



TYPICAL NEW JAMB TO
FOUNDATION CONNECTION

(SEE DETAIL FOR CLOSURE ANGLE AT JAMB)

MATERIAL REFERENCE STANDARDS

- THE FOLLOWING REFERENCE STANDARDS HAVE BEEN USED IN ACCORDANCE WITH IBC 2021:
- DESIGN LOADS ACI 318-19: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - CONCRETE ACI 318-19: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - LIGHT GAUGE AISI S100-16: NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
 - STEEL AISC 360-16: SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS
AISC 341-16: SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS

ABBREVIATIONS LIST

AB	=	ANCHOR BOLT	IF	=	INSIDE FACE
BPL	=	BASE PLATE	LLH	=	LONG LEG HORIZONTAL
BD	=	BOTTOM OF DECK	LLV	=	LONG LEG VERTICAL
BF	=	BOTTOM OF FOOTING	OC	=	ON CENTER
BP	=	BEAM POCKET	OF	=	OUTSIDE FACE
BS	=	BRICK SHELF	SW	=	SHEAR WALL
BW	=	BOTTOM OF WALL	T&B	=	TOP & BOTTOM
CJP	=	COMPLETE JOINT PENETRATION	TC	=	TOP OF CONCRETE
CP	=	COLUMN POCKET	TF	=	TOP OF FOOTING
CS	=	CONCRETE SHELF	TP	=	TOP OF PIER
EF	=	EACH FACE	TS	=	TOP OF STEEL
EXP JT	=	EXPANSION JOINT	TSS	=	TOP OF STRUCTURAL SLAB
EJ	=	EXPANSION JOINT	TW	=	TOP OF WALL
EW	=	EACH WAY	UNO	=	UNLESS NOTED OTHERWISE
FV	=	FIELD VERIFY	V	=	VERTICAL
H	=	HORIZONTAL	VIF	=	VERIFY IN FIELD

PROFESSIONAL SEAL



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DEPARTMENT OF
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SITE # 6322
FACILITY # 7016322002
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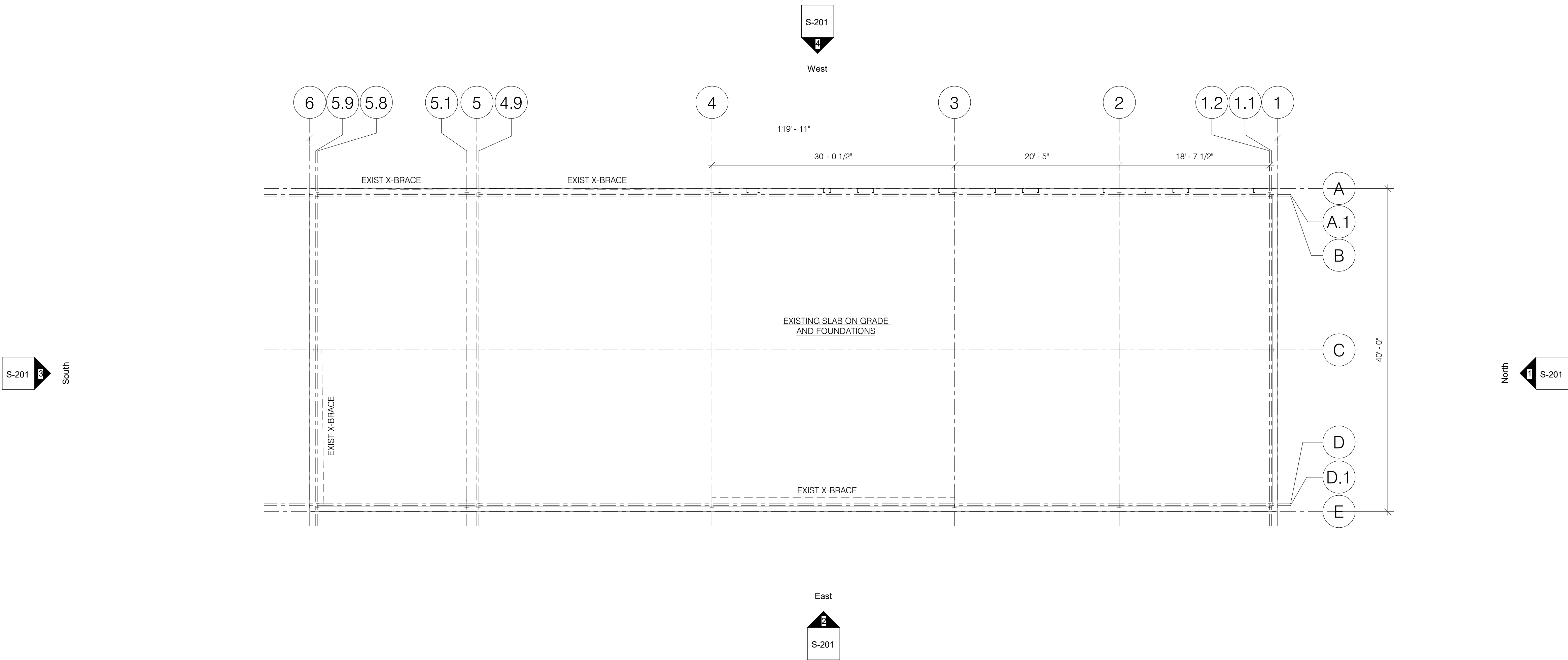
SHEET TITLE:

STRUCTURAL
FOUNDATION PLAN

SHEET NUMBER:

S-101

18 OF 32 SHEETS
07/23/2006



FOUNDATION PLAN

1/8" = 1' - 0"

NOTES: 1. REFER TO ARCHITECTURAL DRAWINGS FOR
NEW OPENING LOCATIONS AND DIMENSIONS

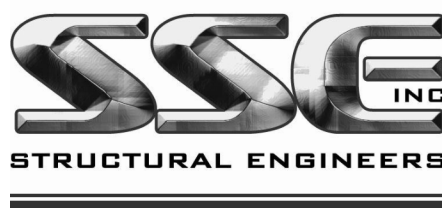
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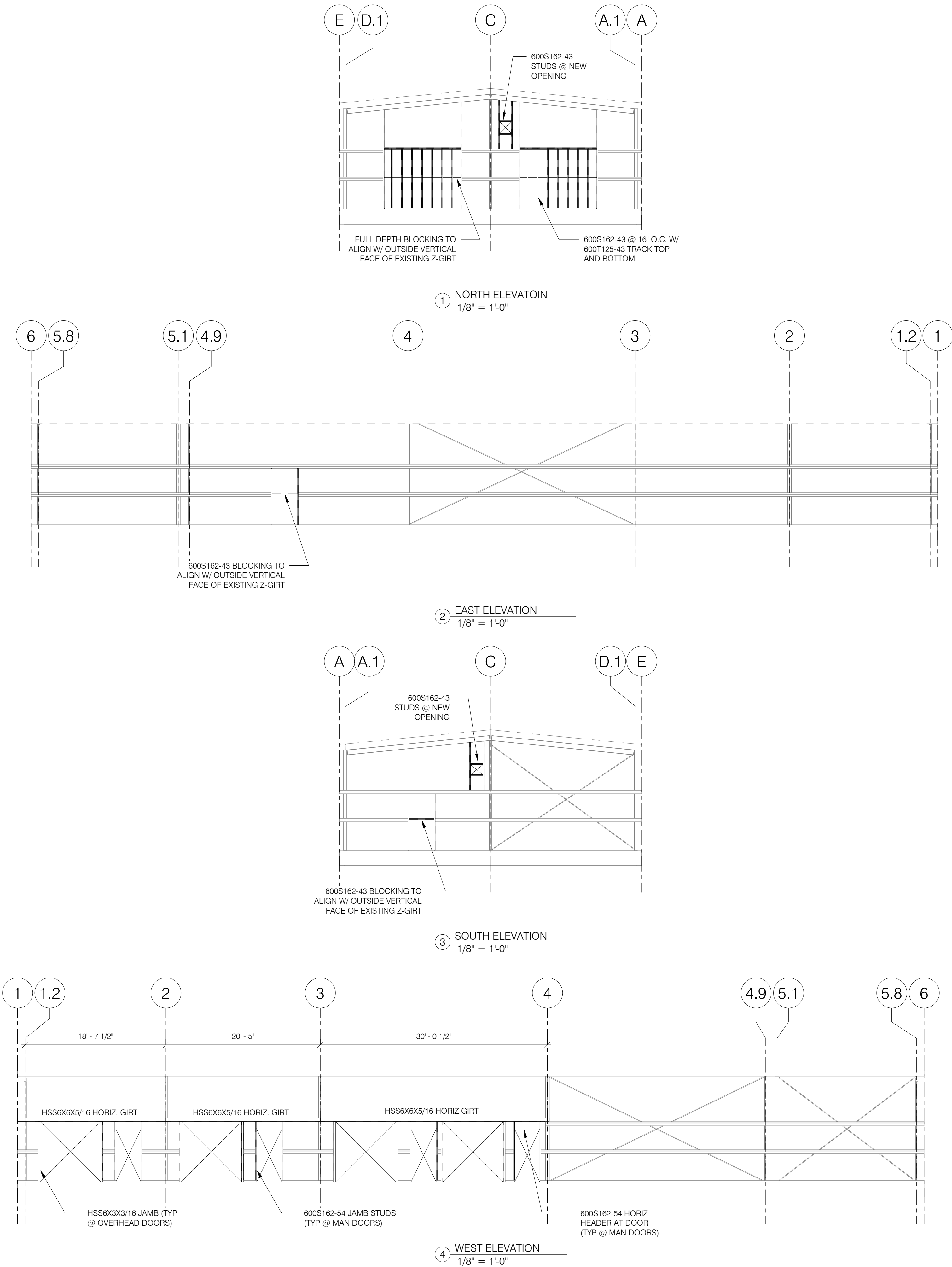
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SSE PROJECT NO: 2025-110-000

1. BEFORE SUBMITTING A PROPOSAL, THE MECHANICAL CONTRACTOR SHALL VISIT THE SITE OF WORK AND BECOME FAMILIAR WITH ALL SITE CONDITIONS. MECHANICAL CONTRACTOR SHALL CAREFULLY EXAMINE ALL CIVIL, ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL CONSTRUCTION DOCUMENTS. SUBMISSION OF A BID WILL ACKNOWLEDGE THE MECHANICAL CONTRACTOR HAS VISITED THE SITE AND EXAMINED ALL CONSTRUCTION DOCUMENTS AND BID INSTRUCTIONS. THE MECHANICAL CONTRACTOR'S BID SHALL INCLUDE ALL MECHANICAL WORK IN THE CONSTRUCTION DOCUMENTS, INCLUDING MECHANICAL WORK RELATED TO EQUIPMENT PROVIDED BY OTHERS.
2. MECHANICAL CONTRACTOR SHALL REQUEST CLARIFICATION ON ANY ITEM(S) OF THE CONTRACT DOCUMENTS THAT ARE NOT UNDERSTOOD OR WHERE CONFLICTS MAY EXIST. CLARIFICATIONS MUST BE PRESENTED AS A "REQUEST FOR INFORMATION" (RFI) IN WRITING PRIOR TO SUBMITTING A BID. REQUESTS MUST BE RECEIVED AT A MINIMUM OF FIVE (5) WORKING DAYS BEFORE THE BID DATE. OBTAIN THE RFI FORM AT <https://www.gandwengengineering.com/documents>. SUBMISSION OF A BID WILL ACKNOWLEDGE THE MECHANICAL CONTRACTOR UNDERSTANDS THE SCOPE OF WORK, MEANS AND METHODS OF INSTALLATION, EQUIPMENT AND MATERIALS TO BE USED. RFI THAT HAVE NOT BEEN CLARIFIED PRIOR TO BID, WILL BE PROVIDED BY THE MECHANICAL CONTRACTOR, AS DIRECTED BY THE SUBMITTER OF RECORD. REQUESTS FOR CLARIFICATION WILL BE MADE FOR THE FAILURE OF THE CONTRACTOR TO OBTAIN CLARIFICATIONS PRIOR TO BID.
3. THE MECHANICAL CONTRACTOR'S BID SHALL BE BASED ON THE SCHEDULED EQUIPMENT, MATERIALS, AND MANUFACTURERS WHICH FORM THE "BASIS OF DESIGN". ALL OTHER EQUIPMENT, MATERIALS, AND MANUFACTURERS, INCLUDING ALTERNATES IF LISTED AS ACCEPTABLE ALTERNATES, ARE CONSIDERED SUBSTITUTIONS. CONTRACTOR PROPOSED SUBSTITUTIONS MUST BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND WITH A COMPLETED SUBSTITUTION REQUEST FORM. OBTAIN THIS FORM AT <https://www.gandwengengineering.com/documents>. APPROVALS OF SUBSTITUTIONS ARE CONTINGENT UPON ENGINEER'S REVIEW. THE MECHANICAL CONTRACTOR SHALL MAKE NO PRIOR ASSUMPTIONS ON SUBSTITUTIONS NOT APPROVED BY THE ENGINEER. IF THE ENGINEER APPROVES A SUBSTITUTION REQUEST, THE MECHANICAL CONTRACTOR WILL BE HELD RESPONSIBLE FOR ENGINEERING REVISIONS, PHYSICAL SIZE, CAPACITIES, COORDINATION, SUPPLEMENTAL DRAWINGS AND INFORMING OTHER TRADE CONTRACTORS RELATED TO THE INSTALLATION. AS TO ANY SPECIFIED ITEM CHANGES, THE MECHANICAL CONTRACTOR SHALL BEAR AS PART OF THE CONTRACT, ANY ADDITIONAL COSTS INCURRED IN THE MECHANICAL CONTRACTORS WORK OR BY THE OTHER CONTRACTORS AS A RESULT OF INSTALLATION FOR OTHER THAN "BASIS OF DESIGN" MATERIALS AND EQUIPMENT.
4. SHOP DRAWINGS SHALL BE SUBMITTED ELECTRONICALLY AS PDF FILES. SHOP DRAWINGS SHALL INCLUDE TRANSMITTAL PAGE(S) INDICATING THE NAME OF THE PROJECT, AND THE NAME, ADDRESS, AND PHONE NUMBER OF THE GENERAL AND MECHANICAL CONTRACTORS. THE GENERAL CONTRACTOR OR MECHANICAL CONTRACTOR SHALL REVIEW SHOP DRAWINGS SUBMITTED FOR COMPLIANCE, CONTENT AND COMPLETENESS AND PROVIDE A STAMP WITH THE DATE OF REVIEW AND SIGNATURE OF THE REVIEWER. TRANSMITTAL PAGE SHALL HAVE INDEX WITH SPECIFICATION SECTION AND DESCRIPTION OF SUBMITTED ITEMS. NO EXCEPTIONS WILL BE TAKEN. SHOP DRAWINGS NOT SUBMITTED IN THIS FORMAT WILL BE REJECTED AND WILL NOT CAUSE REASON FOR PROJECT DELAYS. EQUIPMENT SHALL NOT BE ORDERED UNTIL ENGINEER OF RECORD HAS ACCESS TO ALL SUBMITTED SHOP DRAWINGS. A PERIOD OF TEN (10) BUSINESS DAYS WILL BE ALLOWED FOR SUBMITTAL PROCESSING BY THE ENGINEER. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
5. THE MECHANICAL CONTRACTOR SHALL HAVE ACCESS TO ELECTRONIC FILES OWNED AND/OR CREATED BY G&W ENGINEERING CORPORATION IN PREPARATION OF CONTRACTOR'S SUBMITTALS OR OTHER APPROVED USE. THE USE OF THESE FILES REQUIRES A SIGNED "ELECTRONIC FILES RELEASE FORM" AGREEING TO ALL TERMS AND CONDITIONS OUTLINED ON THE FORM AND ASSOCIATED DISCLAIMER. THE SIGNED FORM SHALL BE RECEIVED BY G&W ENGINEERING CORPORATION PRIOR TO SHARING ANY ELECTRONIC FILES. IN ACCEPTING, OPENING, COPYING, AND/OR USING ANY TEXT, DATA, DRAWINGS, MODELS, GRAPHICS OR REPORTS IN ANY FORM OF ELECTRONIC MEDIA GENERATED AND TRANSMITTED/FURNISHED BY G&W ENGINEERING CORPORATION ("ELECTRONIC FILES"), THE RECIPIENT AGREES THAT ALL SUCH ELECTRONIC FILES ARE THE PROPERTY AND/OR INTELLECTUAL PROPERTY OF G&W ENGINEERING CORPORATION, WHO SHALL BE DEEMED THE AUTHOR, AND SHALL RETAIN ALL COMMON LAW, STATUTORY LAW AND OTHER RIGHTS, INCLUDING COPYRIGHTS. THE RECIPIENT ALSO AGREES NOT TO TRANSFER THESE ELECTRONIC FILES TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF G&W ENGINEERING CORPORATION. UNLESS OTHERWISE SPECIFIED, SAID ELECTRONIC FILES FURNISHED BY G&W ENGINEERING CORPORATION ARE FURNISHED ONLY FOR CONVENIENCE, NOT RELIANCE BY THE RECEIVING PARTY, ANY CONCLUSION OR INFORMATION OBTAINED OR DERIVED FROM SUCH ELECTRONIC FILES WILL BE AT THE USER'S SOLE RISK. UNLESS OTHERWISE SPECIFIED, G&W ENGINEERING CORPORATION MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF CORRECTNESS AND FITNESS FOR USE FOR ANY PARTICULAR PURPOSE OF SAID ELECTRONIC FILES. THE ELECTRONIC FILES SHALL NOT BE USED BY THE RECIPIENT FOR FUTURE ADDITIONS OR ALTERATIONS TO THIS PROJECT OR FOR OTHER PROJECTS. WITHOUT THE PRIOR WRITTEN CONSENT OF G&W ENGINEERING CORPORATION, ANY UNAUTHORIZED USE OF THE ELECTRONIC FILES SHALL BE AT THE RECIPIENT'S SOLE RISK AND WITHOUT LIABILITY TO G&W ENGINEERING CORPORATION AND ITS CONSULTANTS. IN NO EVENT SHALL G&W ENGINEERING CORPORATION BE LIABLE FOR DIRECT, INDIRECT OR CONSEQUENTIAL DAMAGES AS A RESULT OF THE RECIPIENT'S UNAUTHORIZED USE OR REUSE OF SAID ELECTRONIC FILES. G&W ENGINEERING CORPORATION SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES, LIABILITIES OR THEREIN (INCLUDING THE RIGHT TO REUSE AT ITS SOLE DISCRETION) WHETHER OR NOT THE PROJECT FOR WHICH SAID ELECTRONIC FILES ARE PREPARED IS COMPLETED. G&W ENGINEERING CORPORATION SHALL BE HELD HARMLESS AGAINST ALL DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR RESULTING FROM RECIPIENT'S UNAUTHORIZED USE OR REUSE OF THESE ELECTRONIC FILES.
6. MECHANICAL CONTRACTOR SHALL PERFORM WORK IN A SAFE MANNER, COMPLY WITH APPLICABLE OSHA SAFETY GUIDELINES DURING THE COURSE OF COMPLETING THE WORK DESCRIBED ON THESE CONSTRUCTION DOCUMENTS.
7. SUBMIT AND PAY FOR ALL REQUIRED WORK PERMITS. PROVIDE ALL REQUIRED INSPECTIONS AND INSPECTIONS. PROVIDE A SIGNED CERTIFICATE OF INSPECTION AT THE PROJECT COMPLETION.
8. ALL ITEMS OF WORK AND MATERIALS SHALL BE SPECIALLY INSTALLED PER WRITTEN INSTALLATION INSTRUCTIONS AND METHODS OF INSTALLATION AS PROVIDED BY THE MANUFACTURER OF THE EQUIPMENT OR MATERIAL PROVIDER. MECHANICAL CONTRACTOR SHALL UNDERSTAND THE EQUIPMENT AND MATERIALS AND THE CONSTRUCTION CONTRACTOR SHALL OBTAIN THE INSTALLATION INSTRUCTIONS AND REQUIREMENTS PRIOR TO BID. ALL REQUESTS FOR ADDITIONAL INFORMATION DURING CONSTRUCTION WHERE THE CONTRACTOR HAS NOT PREVIOUSLY OBTAINED THIS INFORMATION FOR BIDDING PURPOSES WILL NOT BE CAUSE FOR ADDITIONAL COSTS OR CONSTRUCTION DELAY.
9. MECHANICAL CONTRACTOR SHALL PROVIDE FIELD COORDINATION WITH OTHER TRADES; SYSTEMS AS SHOWN ARE DIAGRAMMATIC AND GIVE THE GENERAL ARRANGEMENT AND LOCATIONS ONLY. EXACT LOCATIONS AND FINAL LAYOUT SHALL BE DETERMINED IN THE FIELD, PROVIDE ALL NECESSARY EQUIPMENT, TRANSITIONS, FITTINGS, HANGERS, SUPPORTS, AND OFFSETS REQUIRED FOR A COMPLETE INSTALLATION IN ALL RESPECTS. THE MECHANICAL CONTRACTOR MEANS AND METHODS OF INSTALLATION SHALL PROVIDE FOR OPERATING EFFICIENCY, EASY ACCESS OF ACCESS, AND EASY OF MAINTENANCE. THE MECHANICAL CONTRACTOR SHALL PREPARE DIMENSIONED FIELD ERECTION DRAWINGS FOR USE BY THE INSTALLERS TO ENSURE PROPER INSTALLATION, CLEARANCES, AND COORDINATION WITH STRUCTURAL MEMBERS, ARCHITECTURAL WORK, AND ALL OTHER ITEMS BEING INSTALLED BY OTHER TRADE CONTRACTORS. THE MECHANICAL CONTRACTOR SHALL TAKE THEIR OWN MEASUREMENTS AT THE SITE AND BUILDING, AND BE RESPONSIBLE FOR THE CORRECT LAYOUT, INTERPRETATION, AND USE OF ALL SIZES AND DIMENSIONS.
10. THE CONTRACTOR SHALL KEEP "AS-BUILT" INFORMATION DURING CONSTRUCTION AND FURNISH TO THE OWNER OR TENANT A RECORD SET OF LEGIBLE BLACK LINE PRINTS AND AN ELECTRONIC COPY OF THESE DOCUMENTS AT THE PROJECT COMPLETION.
11. ALL MECHANICAL WORK SHALL BE DONE UNDER THE SUPERVISION OF THE MECHANICAL CONTRACTOR, WHO SHALL PROVIDE A COMPETENT AND SKILLED FOREMAN TO LAYOUT ALL WORK. ALL WORK SHALL BE PROVIDED WITH DUE REGARD FOR THE SPACE REQUIREMENTS OF THE OTHER CONTRACTORS. THE MECHANICAL CONTRACTOR SHALL REPORT ANY CONFLICTS OR DIFFICULTIES IN REGARD TO THE INSTALLATION IMMEDIATELY TO THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER, WHERE CROWDED LOCATIONS EXIST OR WHERE THERE IS A POSSIBILITY OF CONFLICT BETWEEN TRADES. THE MECHANICAL CONTRACTOR OR SUB CONTRACTOR MAY REQUEST FOR CLARIFICATION OF THE MECHANICAL LOCATIONS OF PIPES, CONDUIT, DUCTS AND EQUIPMENT. DRAWINGS SHALL BE BASED ON FIELD MEASUREMENTS AND, AFTER CONSULTATION AND AGREEMENT AMONG THE TRADES, THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER SHALL DETERMINE THE SOLUTION BEFORE INSTALLATION OF THE WORK.

VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
VRV	VARIABLE REFRIGERANT VOLUME
VSD	VARIABLE SPEED DRIVE
W/	WITH
WP	WEATHERPROOF
WSHP	WATER SOURCE HEAT PUMP
XFMR	TRANSFORMER

M-001

**OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION**

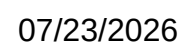
REPAIRS TO
INTERIOR/EXTERIOR,
UNHEATED STORAGE
BUILDING

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 07/23/2026

SHEET TITLE:
MECHANICAL
GENERAL NOTES

M-001

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138 WELDON PARKWAY St. LOUIS, MO
(314) 469-3737 PROJECT NUMBER: 2025-0
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**DEPARTMENT OF
MISSOURI NATIONAL GUARD**

PROJECT # T2331-01
SITE # 6322
FACILITY # 7016322002

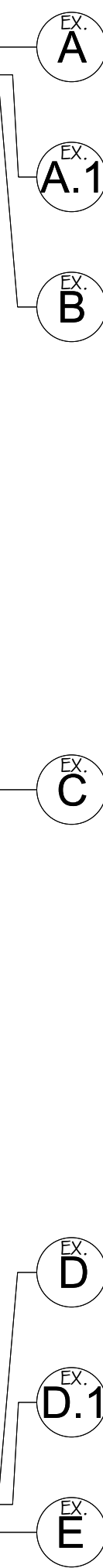
CAD DWG FILE: T2331-01-6322-MD-101
DRAWN BY: FRH
CHECKED BY: BPR
DESIGNED BY: FRH

SHEET NUMBER:

21 OF 32 SHEETS
07/23/2026

PLAN NOTES - MECHANICAL DEMOLITION

1. REMOVE ALL HVAC EQUIPMENT, DUCTWORK, AIR DEVICES, PIPING, WIRING, CONTROLS AND ALL ASSOCIATED HANGERS, BRACKETS, ETC.
2. REMOVE EXISTING GAS PIPING BACK TO METER.
3. EXISTING GAS METER TO REMAIN.



SCALE: 1/4" = 1'-0"

GENERAL NOTES - MECHANICAL

- A. CONTRACTOR TO VISIT THE SITE TO DETERMINE INSTALLATION LOCATIONS OF NEW EQUIPMENT BASED ON EXISTING CONDITIONS. COORDINATE LOCATIONS OF NEW EQUIPMENT WITH ARCHITECT AND ALL OTHER TRADES.

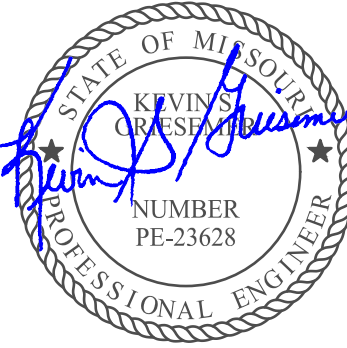
PLAN NOTES - MECHANICAL

- NEW EXHAUST FAN MOUNTED ON WALL. SEE SHEET A-201 FOR MOUNTING HEIGHT AND SCHEDULE ON SHEET M-601. INTERLOCK FAN WITH LIGHTS; FAN TO OPERATE ONLY WHEN LIGHTS ARE ON.
- STUB FULL-SIZE DUCT THROUGH WALL; TERMINATE WITH BELLMOUTH INLET WITH 1"x1" METAL SCREEN OVER OPEN END.
- NEW INTAKE COMBINATION LOUVER INSTALLED IN WALL; SEE SHEET A-201 FOR MOUNTING HEIGHT AND SCHEDULE ON SHEET M-601. INTERLOCK LOUVER ACTUATOR WITH EF-1; LOUVER TO OPEN ONLY WHEN FAN IS ON.
- NEW GAS-FIRED UNIT HEATER; SEE SCHEDULE. INSTALL 10' ABOVE FLOOR; COORDINATE WITH STRUCTURE AND FIXTURES.
- CONCENTRIC UNIT HEATER FLUE AND COMBUSTION AIR INTAKE ROUTED THROUGH WALL IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- NEW GAS PIPING SIZED AS SHOWN CONNECTED TO EXISTING METER. ROUTE GAS PIPE THROUGH WALL TIGHT TO BOTTOM OF MAIN ROOF BEAMS. COORDINATE EXISTING GAS METER CAPACITY WITH GAS UTILITY.
- NEW THERMOSTAT FOR UNIT HEATER INSTALLED ON COLUMN; SEE UNIT HEATER SCHEDULE ON M-601.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

G&W
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BUILDING
BELLEFONTAINE
READINESS CENTER
10625 LEWIS & CLARK BLVD.
ST. LOUIS, MO 63136

PROJECT # T2331-01
SITE # 6322
FACILITY # 7016322002
-

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REVISION:
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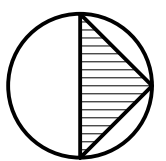
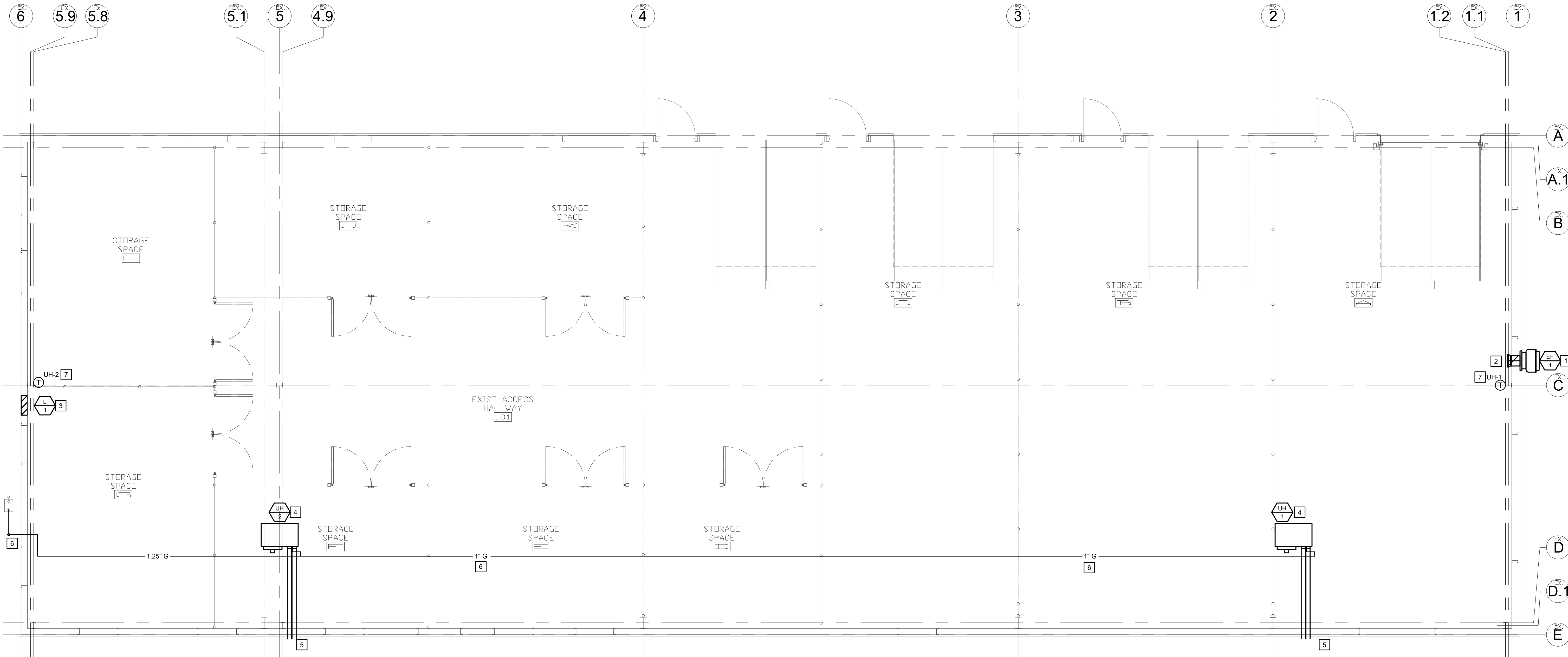
CAD DWG FILE: T2331-01-6322-M-101
DRAWN BY: FRH
CHECKED BY: BPR
DESIGNED BY: FRH

SHEET TITLE:
MECHANICAL
FLOOR PLAN

SHEET NUMBER:

M-101

22 OF 32 SHEETS
07/23/2026



FLOOR PLAN - MECHANICAL

SCALE: 1/4" = 1'-0"



07/23/2026

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ISSUE DATE: 07/23/2026

CAD DWG FILE: T2331-01-6322-M-601
DRAWN BY: FRH
CHECKED BY: BPR
DESIGNED BY: FRH

SHEET TITLE:
**MECHANICAL
DETAILS &
SCHEDULES**

SHEET NUMBER:

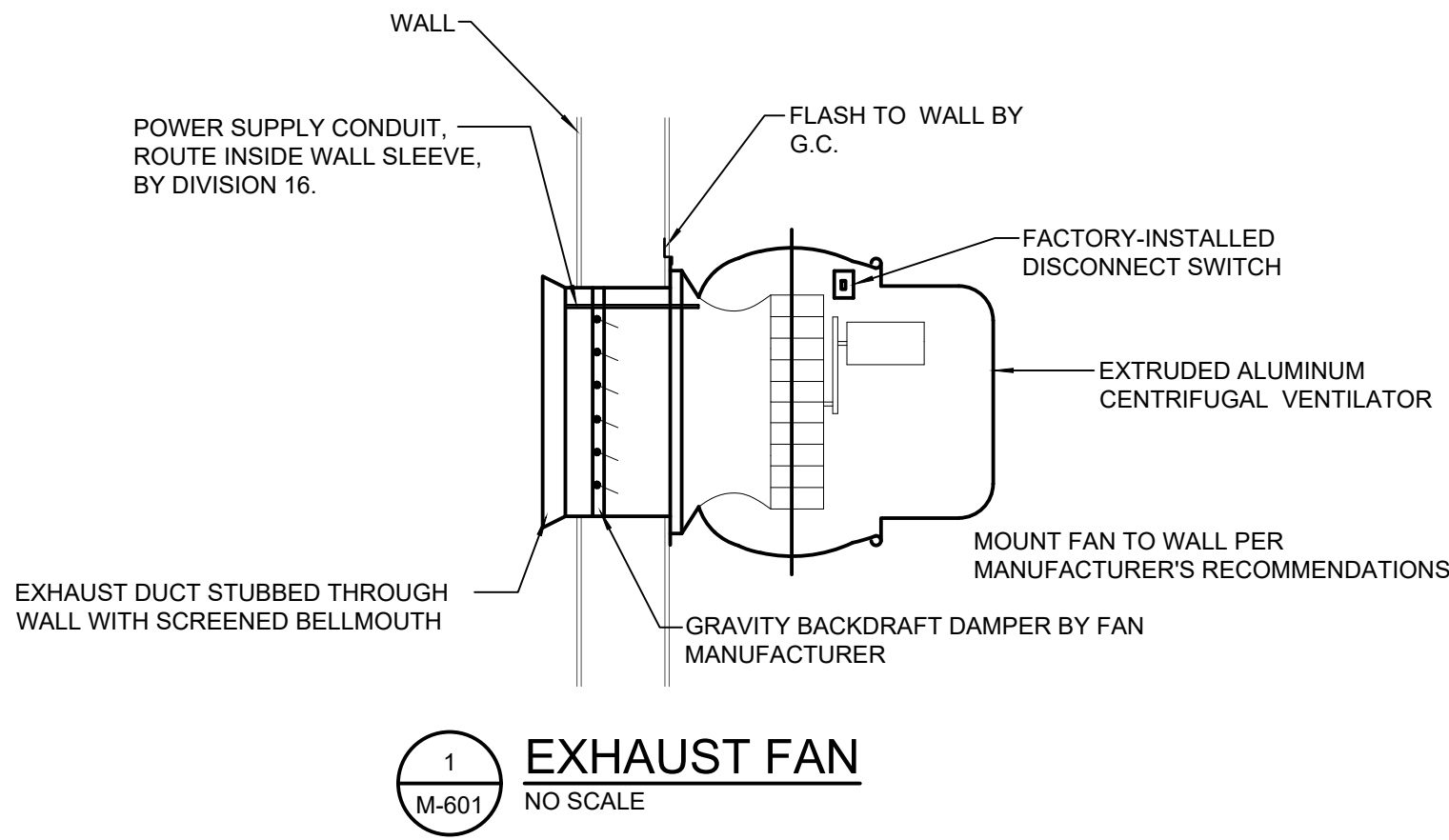
M-601

23 OF 32 SHEETS
07/23/2026

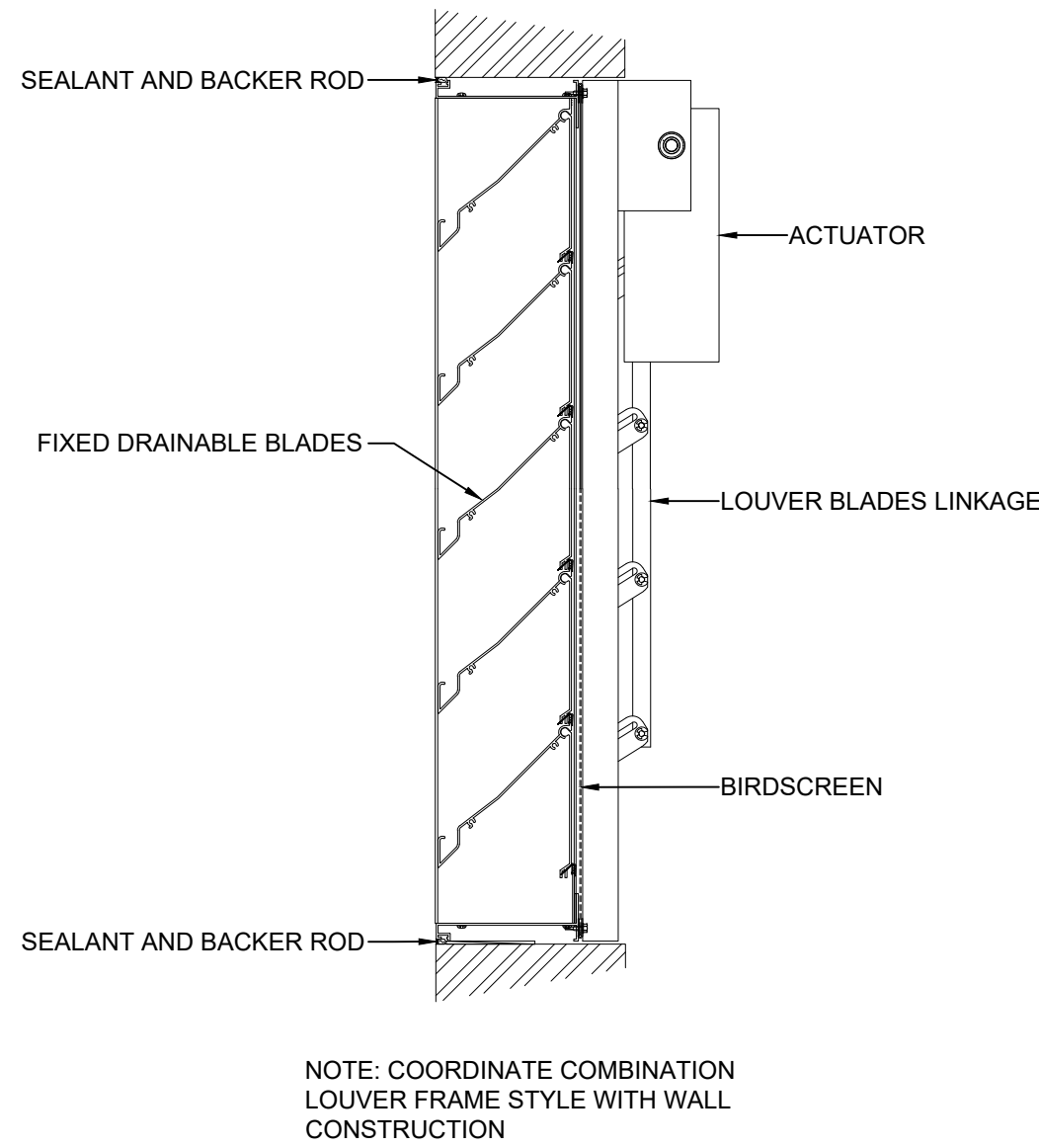
FAN SCHEDULE											* EQUAL TO GREENHECK		
PLAN MARK	MODEL NUMBER*	CFM	ESP "W.C. HEIGHT	DRIVE	DAMPER	FAN RPM	V/PH/HZ	LOAD	MOCP	NOTES			
								HP (W)					
EF-1	CUE-090-VG	280	0.25	DIRECT	GRAVITY	1056	115 / 1 / 60	0.10	15	1, 2			
NOTES:													
1. PROVIDE FACTORY-INSTALLED DISCONNECT SWITCH, INTEGRAL FAN SPEED CONTROLLER AND BIRD SCREEN													
2. COLOR SELECTED BY ARCHITECT													

LOUVER SCHEDULE								* EQUAL TO GREENHECK
PLAN MARK	MODEL NO.*	NOMINAL SIZE	FREE AREA (SQ.FT.)	FACE VELOCITY (FPM)	PRESSURE DROP (IN W.G.)	FINISH	INTAKE / EXHAUST	NOTES
L-1	ECD-601	20 x 16	0.61	462	0.03	--	INTAKE	1, 2
NOTES:	1. PROVIDE WITH ALUMINUM BIRDSCREEN. VERIFY FINISH AND COLOR WITH ARCHITECT. 2. PROVIDE 120VAC DAMPER ACTUATOR, FAIL CLOSED.							

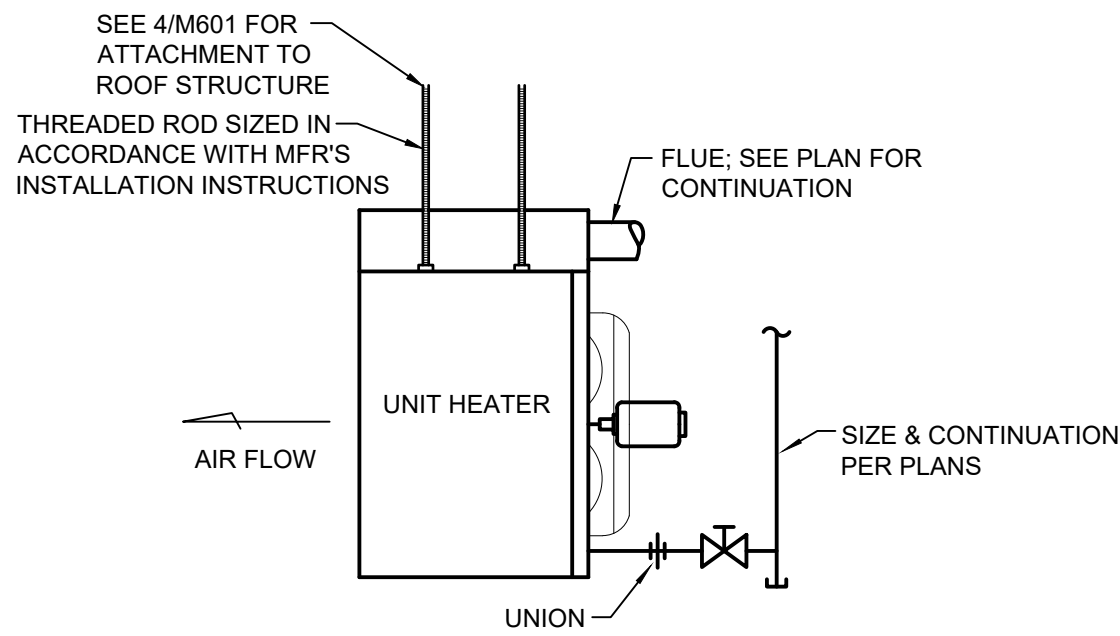
GAS UNIT HEATER SCHEDULE											* EQUAL TO MODINE
PLAN MARK	MODEL NUMBER*	CFM	HEATING CAP. (MBH)		HP	VOLTS/PH	MOCP	FLUE DIA. (N.)	WEIGHT (LB)	NOTES	
			INPUT	OUTPUT							
UH-1	HDS100	1490	100	82	1/6	115 / 1	15	4	125	1, 2, 3	
UH-2	HDS100	1490	100	82	1/6	115 / 1	15	4	125	1, 2, 3	
NOTES:	1. SEPARATED COMBUSTION 2. PROVIDE HORIZONTAL VENT KIT 3. CONTRACTOR TO PROVIDE 24V HEAT-ONLY THERMOSTAT										



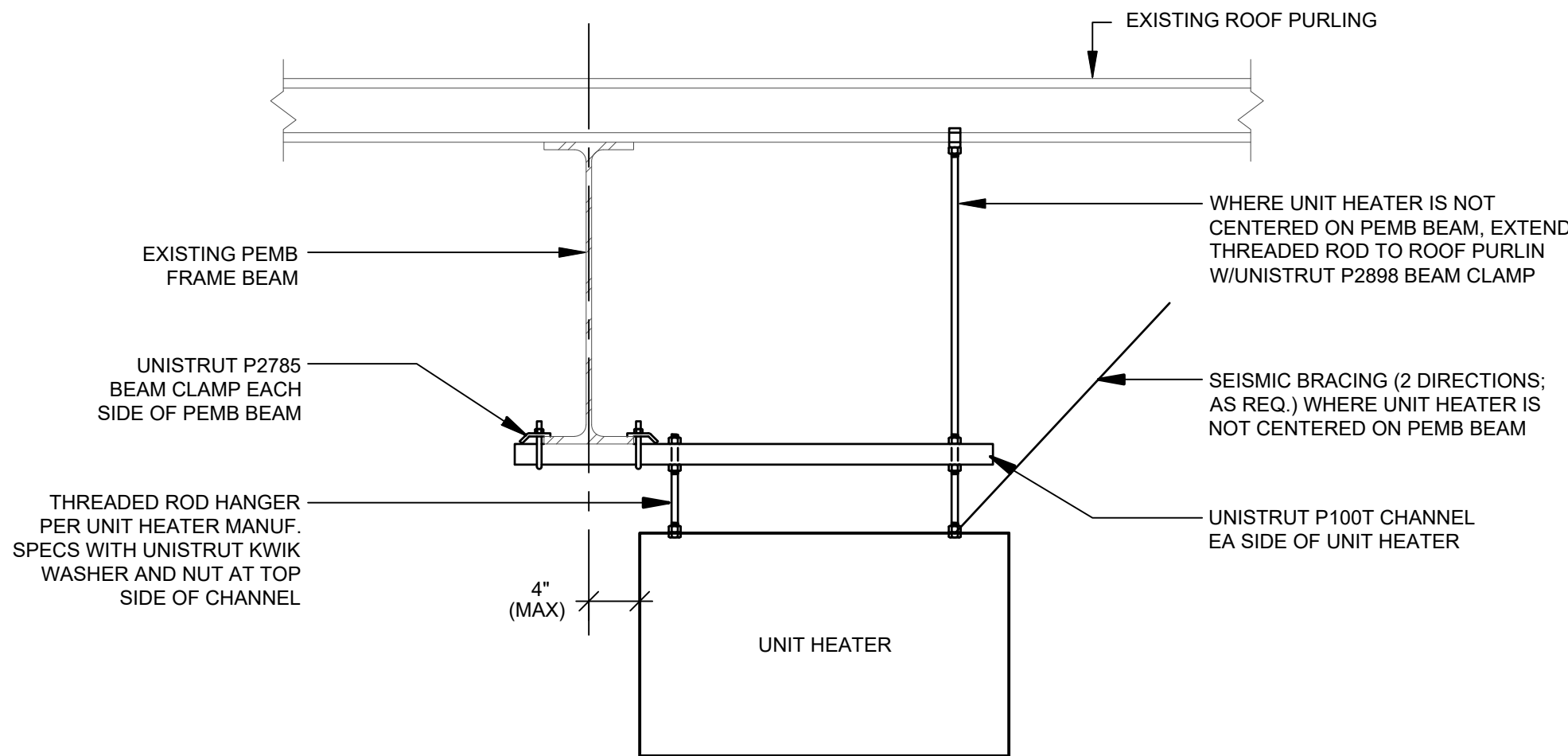
1 EXHAUST FAN
M-601 NO SCALE



2 LOUVER
M-601 NO SCALE

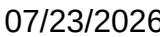


3 TYPICAL GAS-FIRED UNIT HEATER
M-601 NO SCALE



4 UNIT HEATER OFFSET
M-601 NO SCALE

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**DEPARTMENT OF
MISSOURI NATIONAL GUARD**

PROJECT # T2331-01
SITE # 6322
FACILITY # 7016322002
-

ISSUE DATE:07/23/2026

SHEET TITLE:

SHEET NUMBER

24 OF 32 SHEETS
07/23/2026

THIS CONTRACTOR SHALL CONFINe ACTIVITIES TO THE AREA SET ASIDE TO DO WORK AND SHALL NOT INTERFERE WITH ANY OF THE OWNER'S ACTIVITIES. THIS CONTRACTOR WILL NOT BE PERMITTED TO STORE MATERIAL EXCEPT WITHIN THE AREAS AS DIRECTED BY THE GENERAL CONTRACTOR. SHOULD ANY DISTURBANCE OF EXISTING INSTALLATION BE NECESSARY, THE CONTRACTOR SHALL SO INFORM THE OWNER WELL IN ADVANCE OF THE TIME CONTEMPLATED FOR THE DISTURBANCE. AFTER A PLAN ACCEPTABLE TO THE OWNER OR TENANT HAS BEEN FORMULATED, THE G.C. SHALL KEEP IN CLOSE PERSONAL CONTACT WITH THE WORK TO SEE THAT IT IS EXECUTED IN ACCORDANCE WITH THE AGREED PROCEDURE.

AD	AREA DRAIN
AHJ	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
ARVTR	ACID RESISTANT VENT THRU ROOF
ARV	ACID RESISTANT VENT
ARW	ACID RESISTANT WASTE
CB	CATCH BASIN
CI	CAST IRON
CO	CLEANOUT
DF	DRINKING FOUNTAIN
DN	DOWN
DS	DOWNSPOUT
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EWC	ELECTRIC WATER COOLER
FCO	FLOOR C.O.
FD	FLOOR DRAIN
FL	FLOWLINE
FSC	FOOD SERVICE CONTRACTOR
FPC	FIRE PROTECTION CONTRACTOR
GC	GENERAL CONTRACTOR
HB	HOSE BIBB
HD	HUB DRAIN
IW	INDIRECT WASTE
LAV	LAVATORY
MB	MOP BASIN
MC	MECHANICAL CONTRACTOR
MH	MANHOLE
OFRD	OVERFLOW ROOF DRAIN
PA	PIPE ANCHOR
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RIO	ROUGH-IN ONLY
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
S	SOIL
SD	SHOWER DRAIN
SDS	SECONDARY DOWNSPOUT
SH	SHOWER VALVE
SS	SERVICE SINK
SW	STREET WASHER
TMV	THERMOSTATIC MIXING VALVE
TPRV	TEMPERATURE AND PRESSURE RELIEF VALVE
UR	URINAL
V	VENT
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT

	BALANCING VALVE (BAL.V.)
	AUTOMATIC SPRINKLER SYSTEM
	GATE VALVE (GT. V.)
	GLOBE VALVE (GL. V.)
	CHECK VALVE (C.V.)
	GAS SHUT-OFF VALVE (S.O.V.)
	PRESSURE REDUCING VALVE (P.R.V.)
	PRESSURE RELIEF VALVE
	BALL VALVE (B.V.)
	STRAINER (STR.)
	FURNISHED BY OTHERS
	PIPING BELOW FLOOR OR GRADE
	PIPING ABOVE CEILING
	PLAN NOTE SYMBOL
	REVISION SYMBOL
	SANITARY STACK NUMBER
	DOWNSPOUT LETTER
	NEW CONNECTION TO EXIST. VENT LINE. VERIFY SIZE AND LOCATION IN THE FIELD.
	NEW CONNECTION TO EX. WASTE OR SAN. SEWER. VERIFY LOCATION, SIZE, AND F.L. IN THE FIELD.
	NEW CONNECTION TO EXIST. WATER LINE. VERIFY SIZE AND LOCATION IN THE FIELD.

— SAN —	SOIL OR WASTE ABOVE FLOOR
— ST —	SOIL OR WASTE BELOW FLOOR
— ST —	STORM LINE ABOVE FLOOR
— ST —	STORM LINE BELOW FLOOR
— S —	SUB-SOIL DRAIN TILE
— G —	KITCHEN GREASE WASTE LINE
— S/O/G —	SAND/OIL/GREASE WASTE ABOVE FLOOR
— S/O/G —	SAND/OIL/GREASE WASTE BELOW FLOOR
— — — — —	VENT LINE
— AR —	ACID RESISTANT WASTE
— AR —	ACID RESISTANT VENT LINE
— PD —	PUMP DISCHARGE
— C —	COLD WATER LINE (C.W.)
— H —	HOT WATER LINE (H.W.)
— R —	HOT WATER RETURN LINE (H.W.R.)
— F —	FIRE OR SPRINKLER LINE
— FCW —	FILTERED COLD WATER
— TYPE (E) —	EXISTING PIPING
— TYPE- —	PIPE TO BE REMOVED

DEMOLITION GENERAL NOTES

- A. PLUMBING CONTRACTOR SHALL VERIFY EXACT LOCATION OF THE EXISTING SANITARY AND WATER SERVICE IN THIS BUILDING AND CAP WATER TIGHT.

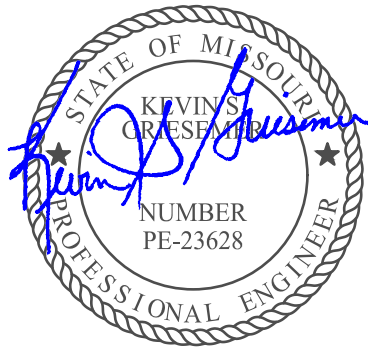
DEMOLITION PLAN NOTES

1. REMOVE THE EXISTING WATER HEATER AND RELATED PIPING AS REQUIRED. CAP WATER LINE WATER TIGHT BELOW THE FLOOR.
2. REMOVE EXISTING PLUMBING FIXTURES. CAP WASTE, VENT, AND WATER PIPING WATER TIGHT BELOW FLOOR.
3. REMOVE FLOOR DRAIN, CAP WASTE LINE WATER TIGHT, AND PATCH THE FLOOR READY FOR NEW FINISH.
4. REMOVE HOSE BIBB AND PIPING.
5. REMOVE EXISTING WATER HEATER ABOVE CEILING AND ALL ASSOCIATED PIPING.
6. CAP EXISTING MANHOLE FLOOR OPENING WATER TIGHT.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

G&W
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138 WELDON PARKWAY ST. LOUIS, MO 63043
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PROJECT # T2331-01
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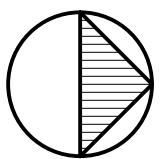
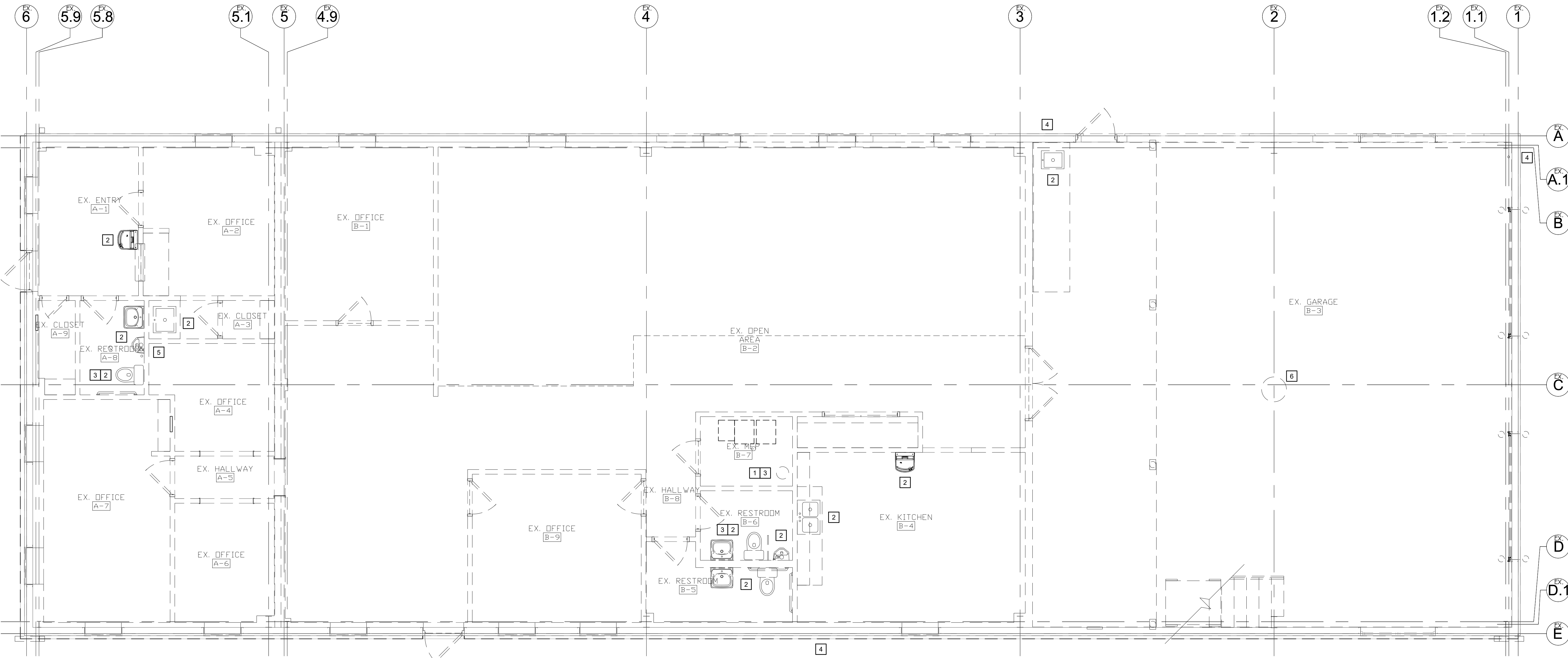
CAD DWG FILE: T2331-01-6322-PD-101
DRAWN BY: BPR
CHECKED BY: BPR
DESIGNED BY: BPR

SHEET TITLE:
PLUMBING
DEMOLITION
PLAN

SHEET NUMBER:

PD-101

25 OF 32 SHEETS
07/23/2026



DEMOLITION FLOOR PLAN - POWER & SYSTEMS

SCALE: 1/4" = 1'-0"

ELECTRICAL SUPPLEMENTAL CONDITIONS

1.

BEFORE SUBMITTING A PROPOSAL, THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE OF WORK AND FAMILIARIZE THEMSELVES WITH ALL SITE CONDITIONS. ELECTRICAL CONTRACTOR SHALL CAREFULLY EXAMINE THE ENTIRE SET OF CONSTRUCTION DOCUMENTS. SUBMISSION OF A BID WILL ACKNOWLEDGE THE ELECTRICAL CONTRACTOR HAS VISITED THE SITE AND EXAMINED ALL CONSTRUCTION DOCUMENTS AND THE BID INSTRUCTIONS. ALL ELECTRICAL WORK IN THE CONSTRUCTION DOCUMENTS, INCLUDING THAT REQUIRED BY OTHER DIVISIONS, GENERALLY INSTALLED BY THE ELECTRICAL CONTRACTOR, WHERE EQUIPMENT IS FURNISHED BY OTHERS, SHALL BE INCLUDED. IT IS EXPRESSLY UNDERSTOOD THAT THIS PROPOSAL IS BASED ON THE ABOVE REQUIREMENTS AND THAT IT COVERS MATERIAL AND LABOR NECESSARY TO COMPLETE THE SCOPE OF WORK DESCRIBED HEREIN.

2.

ELECTRICAL CONTRACTOR SHALL PERFORM WORK IN A SAFE MANNER. COMPLY WITH APPLICABLE OSHA SAFETY GUIDELINES DURING THE COURSE OF PERFORMING THE WORK DESCRIBED IN THESE CONSTRUCTION DOCUMENTS.

3.

ELECTRICAL CONTRACTOR SHALL REQUEST CLARIFICATION ON ANY ITEM(S) OF THE CONTRACT DOCUMENTS THAT ARE NOT UNDERSTOOD OR WHERE CONFLICTS MAY EXIST. CLARIFICATIONS MUST BE PRESENTED AS A "REQUEST FOR INFORMATION" (RFI) IN WRITING PRIOR TO SUBMITTING A BID. RFI SHALL BE PRESENTED A MINIMUM OF FIVE (5) WORKING DAYS BEFORE THE BID DATE. OBTAIN THE RFI FORM AT <https://www.gandwengineering.com/documents>. SUBMISSION OF A BID WILL ACKNOWLEDGE THE ELECTRICAL CONTRACTOR UNDERSTANDS THE SCOPE OF WORK, MEANS AND METHODS OF INSTALLATION, EQUIPMENT AND MATERIALS TO BE USED. RFI THAT HAVE NOT BEEN CLARIFIED PRIOR TO BID WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR, AS DIRECTED BY THE ENGINEER OF RECORD, AND THE MOST STRINGENT MATERIALS, EQUIPMENT, AND SCOPE OF WORK SHALL APPLY. NO ADDITIONAL COMPENSATION WILL BE MADE FOR THE FAILURE OF THE CONTRACTOR TO OBTAIN CLARIFICATIONS PRIOR TO BID.

4.

THE ELECTRICAL CONTRACTOR'S BID SHALL BE BASED ON THE SCHEDULED EQUIPMENT, MATERIALS, AND MANUFACTURERS WHICH FORM THE "BASIS OF DESIGN". ALL OTHER EQUIPMENT, MATERIALS, AND MANUFACTURERS, INCLUDING MANUFACTURES LISTED AS ACCEPTABLE ALTERNATES, ARE CONSIDERED SUBSTITUTIONS. CONTRACTOR PROPOSED SUBSTITUTIONS MUST BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW WITH A COMPLETED SUBSTITUTION REQUEST FORM. OBTAIN THIS FORM AT <https://www.gandwengineering.com/documents>. APPROVAL OF SUBSTITUTIONS ARE CONTINGENT UPON ENGINEER'S REVIEW. THE ELECTRICAL CONTRACTOR SHALL MAKE NO PRIOR ASSUMPTIONS ON SUBSTITUTIONS NOT APPROVED BY THE ENGINEER. IF THE ENGINEER APPROVES A SUBSTITUTION REQUEST, THE ELECTRICAL CONTRACTOR WILL BE HELD RESPONSIBLE FOR ENGINEERING REVISIONS, PHYSICAL SIZE, CAPACITIES, COORDINATION, SUPPLEMENTAL DRAWINGS AND INFORMING OTHER TRADE CONTRACTORS AS TO ANY SPECIFIED ITEM CHANGES RELATED TO THE INSTALLATION. THE ELECTRICAL CONTRACTOR SHALL BEAR AS PART OF THEIR CONTRACT, ANY ADDITIONAL COSTS INCURRED IN THEIR WORK, OR BY THE OTHER CONTRACTORS, AS A RESULT OF THE INSTALLATION FOR OTHER THAN "BASIS OF DESIGN" MATERIALS AND EQUIPMENT.

5.

SHOP DRAWINGS SHALL BE SUBMITTED ELECTRONICALLY AS PDF FILES. SHOP DRAWINGS SHALL INCLUDE TRANSMITTAL PAGE(S) INDICATING THE NAME OF THE PROJECT, AND THE NAME, ADDRESS, AND PHONE NUMBER OF THE GENERAL AND ELECTRICAL CONTRACTORS. GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR SHALL REVIEW SHOP DRAWING SUBMITTALS FOR COMPLIANCE, CONTENT AND COMPLETENESS AND PROVIDE A STAMP WITH THE DATE OF REVIEW AND SIGNATURE OF THE REVIEWER. TRANSMITTAL PAGE SHALL HAVE INDEX WITH SPECIFICATION SECTION AND DESCRIPTION OF SUBMITTED ITEMS. NO EXCEPTIONS WILL BE TAKEN. SHOP DRAWINGS NOT SUBMITTED IN THIS FORMAT WILL BE REJECTED AND WILL NOT CAUSE REASON FOR PROJECT DELAYS. EQUIPMENT SHALL NOT BE ORDERED UNTIL ENGINEER OF RECORD HAS PROCESSED APPLICABLE SHOP DRAWINGS. A PERIOD OF TEN BUSINESS DAYS WILL BE ALLOWED FOR SUBMITTAL PROCESSING BY THE ENGINEER. REFER TO THE PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.

6.

THE ELECTRICAL CONTRACTOR SHALL HAVE ACCESS TO ELECTRONIC FILES OWNED AND/OR CREATED BY G&W ENGINEERING CORPORATION IN PREPARATION OF CONTRACTOR'S SUBMITTALS OR OTHER APPROVED USE. THE USE OF THESE FILES REQUIRES A SIGNED "ELECTRONIC FILES RELEASE FORM" AGREEING TO ALL TERMS AND CONDITIONS OUTLINED ON THE FORM AND ASSOCIATED DISCLAIMER. THE SIGNED FORM SHALL BE RECEIVED BY G&W ENGINEERING CORPORATION PRIOR TO SHARING ANY ELECTRONIC FILES. IN ACCEPTING, OPENING, COPYING, AND/OR USING ANY TEXT, DATA, DRAWINGS, MODELS, GRAPHICS OR REPORTS IN ANY FORM OF ELECTRONIC MEDIA GENERATED AND TRANSMITTED/FURNISHED BY G&W ENGINEERING CORPORATION ("ELECTRONIC FILES"), THE RECIPIENT AGREES THAT ALL SUCH ELECTRONIC FILES ARE INSTRUMENTS OF SERVICE OF G&W ENGINEERING CORPORATION, WHO SHALL BE DEEMED THE AUTHOR, AND SHALL RETAIN ALL COMMON LAW, STATUTORY LAW AND OTHER RIGHTS, INCLUDING COPYRIGHTS. THE RECIPIENT ALSO AGREES NOT TO TRANSFER THESE ELECTRONIC FILES TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF G&W ENGINEERING CORPORATION. UNLESS OTHERWISE SPECIFIED, SAID ELECTRONIC FILES FURNISHED BY G&W ENGINEERING CORPORATION ARE FURNISHED ONLY FOR CONVENIENCE, NOT RELIANCE BY THE RECEIVING PARTY; ANY CONCLUSION OR INFORMATION OBTAINED OR DERIVED FROM SUCH ELECTRONIC FILES WILL BE AT THE USER'S SOLE RISK. UNLESS OTHERWISE SPECIFIED, G&W ENGINEERING CORPORATION MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF CORRECTNESS AND FITNESS FOR USE FOR ANY PARTICULAR PURPOSE OF SAID ELECTRONIC FILES. THE ELECTRONIC FILES SHALL NOT BE USED BY THE RECIPIENT FOR FUTURE ADDITIONS OR ALTERATIONS TO THIS PROJECT OR FOR OTHER PROJECTS, WITHOUT THE PRIOR WRITTEN CONSENT OF G&W ENGINEERING CORPORATION. ANY UNAUTHORIZED USE OF THE ELECTRONIC FILES SHALL BE AT THE RECIPIENT'S SOLE RISK AND WITHOUT LIABILITY TO G&W ENGINEERING CORPORATION AND ITS CONSULTANTS. IN NO EVENT SHALL G&W ENGINEERING CORPORATION BE LIABLE FOR DIRECT, INDIRECT OR CONSEQUENTIAL DAMAGES AS A RESULT OF THE RECIPIENT'S UNAUTHORIZED USE OR REUSE OF SAID ELECTRONIC FILES. G&W ENGINEERING CORPORATION SHALL RETAIN AN OWNERSHIP AND PROPERTY INTEREST THEREIN (INCLUDING THE RIGHT TO REUSE AT ITS SOLE DISCRETION) WHETHER OR NOT THE PROJECT FOR WHICH SAID ELECTRONIC FILES ARE PREPARED IS COMPLETED. G&W ENGINEERING CORPORATION SHALL BE HELD HARMLESS AGAINST ALL DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR RESULTING FROM RECIPIENTS UNAUTHORIZED USE OR REUSE OF THESE ELECTRONIC FILES.

7.

ELECTRICAL WORK SHALL BE PROVIDED TO COMPLY WITH NFPA 70, THE 2014 NATIONAL ELECTRICAL CODE (NEC), AS WELL AS ALL APPLICABLE LOCALLY-ENFORCED CODES, ORDINANCES, AMENDMENTS, STATE LAWS AND FEDERAL LAWS.

8.

ELECTRICAL CONTRACTOR SHALL UNDERSTAND THE PRODUCT, MEANS AND METHODS OF INSTALLATION. ALL CONDUCTORS AND EQUIPMENT SHALL BE APPROVED AND LISTED BY A NRTL (NATIONALLY RECOGNIZED TESTING LABORATORY). LISTED AND LABELED EQUIPMENT SHALL BE IDENTIFIED AND USED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN THE LISTING AND LABELING IN ADDITION TO THE WRITTEN INSTALLATION INSTRUCTIONS AND METHODS OF INSTALLATION AS PUBLISHED BY THE MANUFACTURER OF THE EQUIPMENT OR MATERIAL PROVIDER. THE ELECTRICAL CONTRACTOR SHALL OBTAIN THE INSTALLATION INSTRUCTIONS AND REQUIREMENTS PRIOR TO BID. ALL RFI AND CLARIFICATIONS OF SCOPE PRESENTED DURING CONSTRUCTION WHERE THE CONTRACTOR HAS NOT PREVIOUSLY OBTAINED THIS INFORMATION FOR BIDDING PURPOSES WILL NOT BE CAUSE FOR ADDITIONAL COSTS OR PROJECT DELAY.
9.

ELECTRICAL CONTRACTOR SHALL PROVIDE FIELD COORDINATION WITH OTHER TRADES. SYSTEMS ARE SHOWN AS DIAGRAMMATIC AND GIVE THE GENERAL ARRANGEMENT AND LOCATIONS ONLY. ELECTRICAL CONTRACTOR SHALL COMPLETELY REVIEW THE ENTIRE SET OF CONSTRUCTION DRAWINGS FOR DETAILS OF CONSTRUCTION PRIOR TO STARTING WORK. ROUGH-IN OF ELECTRICAL FIXTURES, EQUIPMENT, CONDUIT, CABLES, ATTACHMENTS, AND HANGERS SHALL BE BASED ON THIS REVIEW. EXACT LOCATIONS AND FINAL LAYOUT SHALL BE DETERMINED IN THE FIELD. PROVIDE ALL NECESSARY EQUIPMENT, FITTINGS, HANGERS, BOXES, SUPPORTS, OFFSETS AND ACCESS PANELS REQUIRED FOR A COMPLETE INSTALLATION IN ALL RESPECTS. THE ELECTRICAL CONTRACTOR'S MEANS AND METHODS OF INSTALLATION SHALL PROVIDE FOR OPERATING EFFICIENCY, NEATNESS OF APPEARANCE, EASE OF MAINTENANCE, AND NEC COMPLIANCE. THE ELECTRICAL CONTRACTOR SHALL PREPARE DIMENSIONED FIELD ERECTION DRAWINGS FOR USE BY THE INSTALLERS TO ENSURE PROPER INSTALLATION, CLEARANCES, AND COORDINATION WITH STRUCTURAL MEMBERS, ARCHITECTURAL WORK, AND ALL OTHER ITEMS BEING INSTALLED BY OTHER TRADE CONTRACTORS. THE ELECTRICAL CONTRACTOR SHALL TAKE THEIR OWN MEASUREMENTS AT THE SITE AND BUILDING, AND BE RESPONSIBLE FOR THE CORRECT LAYOUT. INTERPRETATION, AND USE OF ALL SIZES AND DIMENSIONS. THE CONTRACTOR SHALL KEEP "AS-BUILT" INFORMATION DURING CONSTRUCTION AND FURNISH TO THE OWNER OR TENANT A RECORD SET OF LEGIBLE BLACK LINE PRINTS AND AN ELECTRONIC COPY OF THESE DOCUMENTS AT PROJECT COMPLETION.
10.

ALL ELECTRICAL WORK SHALL BE DONE UNDER THE SUPERVISION OF THE ELECTRICAL CONTRACTOR, WHO SHALL PROVIDE A COMPETENT AND SKILLED FOREMAN TO LAYOUT AND SUPERVISE ALL WORK. ALL WORK SHALL BE PROVIDED WITH DUE REGARD FOR THE SPACE REQUIREMENTS OF THE OTHER CONTRACTORS. THE ELECTRICAL CONTRACTOR SHALL REPORT ANY CONFLICTS OR DIFFICULTIES IN REGARD TO THE INSTALLATION IMMEDIATELY TO THE GENERAL CONTRACTOR. WHERE CROWDED LOCATIONS EXIST OR WHERE THERE IS A POSSIBILITY OF CONFLICT BETWEEN TRADES, THE ELECTRICAL CONTRACTOR SHALL MAKE COMPOSITE SUPPLEMENTARY DRAWINGS SHOWING THE EXACT LOCATIONS OF PIPES, CONDUIT, DUCTS AND EQUIPMENT. DRAWINGS SHALL BE BASED ON FIELD MEASUREMENTS, AND AFTER CONSULTATION AND AGREEMENT AMONG THE TRADES, THE GENERAL CONTRACTOR SHALL DIRECT THE SOLUTION BEFORE INSTALLATION OF THE WORK.
11.

FIELD COORDINATION: THE ELECTRICAL CONTRACTOR SHALL COMPLETELY REVIEW THE ENTIRE SET OF CONSTRUCTION DRAWINGS FOR DETAILS OF CONSTRUCTION PRIOR TO STARTING WORK. ROUGH-IN OF ELECTRICAL CONDUIT, BOXES, SIGNALS, DEVICES, EQUIPMENT AND FIXTURES SHALL BE BASED ON THIS REVIEW. ANY CONFLICTS WITH BUILDING OR SITE ELEMENTS SHALL BE COMMUNICATED THROUGH THE "RFI" PROCESS PRIOR TO START OF CONSTRUCTION. ALL LIGHT SWITCHES SHALL BE LOCATED BEYOND DOOR SWINGS, TRIM, AND ON THE LATCH SIDE OF THE DOOR. COORDINATE ELECTRICAL DEVICE LAYOUT AND FRAMING WITH GENERAL CONTRACTOR PRIOR TO START OF CONSTRUCTION.

12.

REVIEW ARCHITECTURAL DRAWINGS FOR ALL FIRE RATINGS AND FIRE RATED ASSEMBLIES PRIOR TO BIDDING THE PROJECT. PROVIDE FIRE STOP AT EACH RATED WALL, FLOOR, AND CEILING-ROOF ASSEMBLY PENETRATION. FIRE STOP SYSTEMS SHALL BE MANUFACTURED BY "3M". PROVIDE IN STRICT COMPLIANCE WITH THE MANUFACTURER'S APPLICATION DETAILS AND INSTRUCTIONS. PROVIDE TAGGED CERTIFICATIONS AT EACH PENETRATION. PROVIDE SHOP DRAWINGS FOR REVIEW WITH THE U.L. LISTING AND TEST CRITERIA. PROVIDE FIRE STOPPING WHERE REQUIRED BY THE AHJ. EQUAL SYSTEMS AS MANUFACTURED BY "SPEC SEAL" OR "HILTI" WILL BE ACCEPTABLE. REFER TO THE PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
13.

PROVIDE CONDUIT, CABLES, AND ELECTRICAL ASSEMBLY PENETRATIONS OF NON-RATED ASSEMBLIES WITH DRAFT STOPPING, OR SMOKE BARRIER SEALANT SYSTEMS. THROUGH PENETRATION SEALANT SYSTEMS SHALL BE MANUFACTURED BY "3M". PROVIDE IN STRICT COMPLIANCE WITH THE MANUFACTURER'S APPLICATION DETAILS AND INSTRUCTIONS. PROVIDE DRAFT STOPPING OR SMOKE BARRIER SEALANTS TO MEET APPROVAL OF THE AHJ. EQUAL SYSTEMS AS MANUFACTURED BY "SPEC SEAL" OR "HILTI" WILL BE ACCEPTABLE. REFER TO THE PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
14.

ELECTRICAL CONTRACTOR SHALL CUT AND PATCH ROOF, FLOORS, WALLS, AND CEILINGS WHERE REQUIRED TO INSTALL NEW ELECTRICAL BOXES, FIXTURES, AND RACEWAY SYSTEMS. SURFACES SHALL BE PATCHED AND LEFT READY FOR FINAL SCHEDULED FINISH. ROOFING WORK SHALL BE PERFORMED BY A QUALIFIED ROOFING CONTRACTOR THAT MAINTAINS THE ROOF WARRANTY. ALL REQUIRED ROOFING WORK DUE TO ELECTRICAL SCOPE OF WORK SHALL BE INCLUDED IN THE ELECTRICAL CONTRACTOR'S BID.
15.

ELECTRICAL CONTRACTOR SHALL PROVIDE ALL TEMPORARY POWER AND LIGHTING FOR THE DURATION OF THE PROJECT. ALL TEMPORARY LIGHTING AND POWER SHALL BE PROVIDED TO MEET OSHA STANDARDS, STATE LAW, LOCAL ORDINANCES AND AHJ REQUIREMENTS. REMOVE ALL TEMPORARY POWER AND LIGHTING AT THE PROJECT COMPLETION.
16.

THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT OCCURRING IN DEMOLISHED WALLS, FLOORS, ATTICS, CEILING CAVITIES, THE ROOF AND AS OTHERWISE DESCRIBED HEREIN AND AS SHOWN ON THE DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE GENERAL SCOPE OF DEMOLITION. ELECTRICAL COMPONENTS INCLUDING MOTORS, TEMPERATURE CONTROL DEVICES, LIGHT FIXTURES, PIPING, FITTINGS, CONDUIT, WIRE, HANGERS, BRACKETS, INSULATION, ETC., NOT TO BE RETAINED BY THE OWNER OR TENANT, MUST BE REMOVED FROM THE PREMISES AND BE LEGALLY DISPOSED OF BY THE ELECTRICAL CONTRACTOR. ALL LOOSE ENDS OF SYSTEMS WHERE SUCH ABANDONMENT HAS TERMINATED SHALL BE TRIMMED CLEAR AND APPROPRIATELY CAPPED OR SEALED IN A SAFE AND SECURE MANNER. REMOVAL AND DEMOLITION SHALL BE BY THE RESPECTIVE OR APPROPRIATE TRADES. MAINTAIN BRANCH CIRCUIT CONTINUITY TO ADJOINING AREAS AS NEEDED. THIS INCLUDES, BUT IS NOT LIMITED TO, REMOVAL, MODIFICATION AND REINSTALLATION OF EQUIPMENT AS NEEDED TO SUSTAIN THE EXISTING WORKING CONDITION OF ALL ELECTRICAL EQUIPMENT AND TO RETURN THESE AREAS TO FULL WORKING ORDER AT PROJECT COMPLETION.
- | ELECTRICAL SYMBOL LIST | |
|---|--|
| OUTLETS | |
|  | SINGLE RECEPTACLE (+18") |
|  | DUPLEX RECEPTACLE (+18") |
|  | QUADPLEX RECEPTACLE (+18") |
|  | WEATHERPROOF RECEPTACLE |
|  | GFI TYPE RECEPTACLE |
|  | ISOLATED GROUND TYPE D.R. |
|  | TAMPER RESISTANT RECEPTACLE |
|  | USB CHARGER RECEPTACLE |
|  | SWITCHED RECEPTACLE |
|  | D.R. - TOP HALF SWITCHED |
|  | FLUSH FLOOR BOX. SEE PLANS. |
|  | SURFACE FLOOR RECEPTACLE. SEE PLANS. |
|  | SPECIAL PURPOSE OUTLET. SEE PLANS. |
|  | VOICE OUTLET BOX |
|  | DATA OUTLET BOX |
|  | VOICE/DATA OUTLET BOX |
|  | POWER POLE. SEE PLANS. |
|  | JUNCTION BOX - WALL MTD. |
|  | JUNCTION BOX - CEILING MTD. |
|  | MODULAR FURNITURE WHIP - POWER |
|  | MODULAR FURNITURE WHIP - VOICE/DATA |
| (+XX") | MOUNTING HEIGHT TO CENTERLINE |
| SWITCHES | |
|  | SINGLE POLE SWITCH (+42") |
|  | 3-WAY SWITCH (+42") |
|  | 4-WAY SWITCH (+42") |
|  | SWITCH WITH PILOT LIGHT |
|  | COMB. SWITCH/DUPLEX RECEPTACLE |
|  | THERMAL OVERLOAD SWITCH |
|  | MANUAL MOTOR SWITCH |
|  | LOW-VOLTAGE SWITCH |
|  | KEYED SINGLE POLE SWITCH (+42") |
|  | KEYED THREE-WAY SWITCH (+42") |
|  | WEATHERPROOF SWITCH |
|  | TIME SWITCH |
|  | MOTION DETECTOR SWITCH |
|  | DIMMER SWITCH |
| FIXTURES | |
|  | RECESSED DOWN LIGHTING FIXTURE |
|  | WALL MOUNTED LIGHT FIXTURE |
|  | PENDANT LIGHT FIXTURE |
|  | 2x2 / 2x4 LIGHT FIXTURE |
|  | LIGHT FIXTURE WITH EMERGENCY BATTERY |
|  | EXIT SIGN WITH FACES & ARROWS |
|  | EMERGENCY EGRESS LIGHT w/ BATTERY |
|  | SITE LIGHTING POLE AND FIXTURE |
| SOUND AND SIGNAL | |
|  | CEILING SPEAKER |
|  | WALL MOUNTED SPEAKER |
|  | VOLUME CONTROL |
|  | BELL/BUZZER |
|  | CATV OUTLET |
|  | INTERCOM OUTLET |
|  | MICROPHONE OUTLET |
| SERVICE AND EQUIPMENT | |
|  | RELAY |
|  | N/F DISCONNECT SWITCH |
|  | FUSED DISCONNECT SWITCH |
|  | STARTER |
|  | COMBINATION STARTER/DISC. SW. |
|  | PUSHBUTTON OR CONTROL STATION |
|  | PHOTOCONTROL |
|  | MOTOR |
|  | ENCLOSED CIRCUIT BREAKER |
|  | MAIN DISTRIBUTION PANEL |
|  | BRANCH CIRCUIT PANELBOARD |
|  | EQUIPMENT CALLOUT |
|  | PLAN NOTE SYMBOL |
|  | REVISION SYMBOL |
| CIRCUITRY AND RACEWAYS | |
|  | CONCEALED CONDUIT
(2 #12 AWG & APPROVED GROUND MIN. - TYP.) |
|  | CONDUIT BELOW FLOOR OR GRADE |
|  | CONDUIT EXPOSED |
|  | GROUND WIRE |
|  | ISOLATED GROUND WIRE |
|  | HOMERUN: NUMBER OF WIRES, PANEL DESIGNATION, CIRCUIT NUMBERS |
- | ELECTRICAL ABBREVIATIONS | |
|--------------------------|---------------------------------------|
| 1PH | SINGLE PHASE (LINE-LINE) |
| 3PH | 3 PHASE (L1-L2-L3) |
| 3PL | THREE POLE |
| 3PSN | 3 POLE SOLID NEUTRAL |
| (60/50/3) | AMP SIZE/FUSE SIZE/POLES |
| A | AMPERE(S) |
| AIC | AMPERES INTERRUPTING CAPACITY |
| AFCI | ARC FLASH CIRCUIT INTERRUPTER |
| AF | ABOVE FINISHED FLOOR |
| AHJ | AUTHORITY HAVING JURISDICTION |
| AHU | AIR HANDLING UNIT |
| AL | ALUMINUM |
| ALT | ALTERNATE |
| ATS | AUTOMATIC TRANSFER SWITCH |
| AWG | AMERICAN WIRE GAUGE |
| BB | BASEBOARD HEATER |
| BDD | BACK DRAFT DAMPER |
| BES | BANKING EQUIPMENT SUPPLIER |
| BFF | BELOW FINISHED FLOOR |
| BMS | BUILDING MANAGEMENT SYSTEM |
| CKT | CIRCUIT |
| CLG | CEILING |
| C/B | CIRCUIT BREAKER |
| COTV | CLOSED CIRCUIT TELEVISION |
| COND | CONDUCTOR |
| C | CONDUIT (SEE RACEWAYS AND CONDUCTORS) |
| CP | CONTROL PANEL |
| CU | COPPER |
| CUH | CABINET UNIT HEATER |
| CT | CURRENT TRANSFORMER |
| DC | DIRECT CURRENT |
| DDC | DIRECT DIGITAL CONTROL |
| DISC | DISCONNECT |
| DN | DOWN |
| DPST | DOUBLE POLE SINGLE THROW |
| DR | DUPLEX RECEPTACLE |
| (E) | EXISTING TO BE MAINTAINED |
| EC | ELECTRICAL WORK CONTRACTOR |
| EF | EXHAUST FAN |
| EOL | END LINE RESISTOR |
| EMS | ENERGY MANAGEMENT SYSTEM |
| EMT | ELECTRICAL METALLIC TUBING |
| EUH | ELECTRIC UNIT HEATER |
| EWC | ELECTRIC WATER COOLER |
| EW | ELECTRIC WATER HEATER |
| EXIST | EXISTING |
| FBO | FURNISHED BY OWNER |
| FA | FIRE ALARM |
| FAAP | FIRE ALARM ANNUNCIATOR PANEL |
| FACP | FIRE ALARM CONTROL PANEL |
| FCU | FAN COIL UNIT |
| FDR | FEEDER |
| FFC | FIRE PROTECTION CONTRACTOR |
| FSD | FIRE/SMOKE DAMPER |
| FSC | FOOD SERVICE CONSULTANT |
| FTU | FAN TERMINAL UNIT |
| FV | FIELD VERIFY |
| GC | GENERAL WORK CONTRACTOR |
| GF | GAS FURNACE |
| GFI | GROUND FAULT INTERRUPTER |
| GRD | GROUND |
| GRV | GRAVITY RIGID STEEL CONDUIT |
| GW | GAS WATER HEATER |
| HID | HIGH INTENSITY DISCHARGE |
| HOA | HAND-OFF-AUTO |
| HP | HORSEPOWER |
| HPS | HIGH PRESSURE SODIUM |
| HWC | HEAVY WALL RIGID CONDUIT |
| HWRC | HOT WATER RETURN CIRCULATING PUMP |
| IMC | INTERMEDIATE METALLIC CONDUIT |
| JB | JUNCTION BOX |
| KVAR | KILOVAR(S) |
| kVA | KILOVOLT AMPERE(S) |
| KW | KILOWATT(S) |
| LCP | LIGHTING CONTROL PANEL |
| LC | LIGHTING CONTACTOR |
| MATV | MASTER ANTENNA TELEVISION |
| MAX | MAXIMUM |
| MC | MECHANICAL WORK CONTRACTOR |
| MIC | MICROPHONE |
| MIN | MINIMUM |
| MCA | MINIMUM CIRCUIT AMPERES |
| MCB | MAIN CIRCUIT BREAKER |
| MCC | MOTOR CONTROL CENTER |
| MAH | MANHOLE |
| MH | METAL HALIDE |
| MLO | MAIN LUGS ONLY |
| MOCP | MAXIMUM OVERCURRENT PROTECTION |
| MTD | MOUNTED |
| NC | NORMALLY CLOSED |
| NF | NON FUSED |
| NIC | NOT IN CONTRACT |
| NO | NORMALLY OPEN |
| OB | OUTLET BOX |
| PC | PLUMBING WORK CONTRACTOR |
| PF | POWER FACTOR |
| PH | PHASE |
| PRI | PRIMARY |
| PT | POTENTIAL TRANSFORMER |
| PVC | POLYVINYL CHLORIDE |
| REC | RECEPTACLE |
| RF | RETURN FAN |
| RL | EXISTING DEVICE RELOCATED |
| RT | RAIN TIGHT (NEMA 3R) |
| RTU | ROOF TOP UNIT |
| SEC | SECONDARY |
| SD | SMOKE DAMPER |
| SF | SUPPLY FAN |
| SW | SWITCH |
| SWBD | SWITCHBOARD |
| TC | TIMECLOCK |
| TEB | TELEPHONE EQUIPMENT BOARD |
| TEF | TOILET EXHAUST FAN |
| TEMP | TEMPERATURE |
| TV | TELEVISION |
| TVSS | TRANSIENT VOLTAGE SURGE SYMBOL |
| TYP | TYPICAL |
| UH | UNIT HEATER |
| UNV | UNIVERSAL |
| UON | UNLESS OTHERWISE NOTED |
| V | VOLTS |
| VA | VOLTAMP(S) |
| VAV | VARIABLE AIR VOLUME |
| VFD | VARIABLE FREQUENCY DRIVE |
| VOIP | VOICE OVER IP |
| W | WATT(S) |
| WI | WITH |
| WSP | WEATHERPROOF |
| WT | WATER SOURCE HEAT PUMP |
| XFMR | TRANSFORMER |
- STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR
-
-
- 07/23/2026
- OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION
- DEPARTMENT OF
MISSOURI NATIONAL GUARD
- REPAIRS TO
INTERIOR/EXTERIOR,
UNHEATED STORAGE
BUILDING
- BELLEFONTAINE
READINESS CENTER
10625 LEWIS & CLARK BLVD.
ST. LOUIS, MO 63136
- PROJECT # T2331-01
SITE # 6322
FACILITY # 7016322002
-
- REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 07/23/2026
- CAD DWG FILE: T2331-01-6322-E-001
DRAWN BY: MKA
CHECKED BY: DJW
DESIGNED BY: MKA
- SHEET TITLE:
- ELECTRICAL
GENERAL NOTES
- SHEET NUMBER:
- E-001
26 OF 32 SHEETS
07/23/2026

DEMOLITION DEFINITIONS

REMOVE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF OFF-SITE UNLESS INDICATED TO BE REMOVED AND REINSTALLED. FOR DISCONNECTED ITEMS REMOVE ALL ELECTRICAL CONDUIT AND WIRING BACK TO PANELBOARD OR J.B. REMOVE LOW VOLTAGE WIRING BACK TO CONTROL OR PATCH PANEL OR PUNCHDOWN BLOCKS.

REMOVE AND REINSTALL (RR): DETACH ITEMS FROM EXISTING CONSTRUCTION, PREPARE FOR REUSE, AND REINSTALL WHERE INDICATED.

EXISTING TO REMAIN (E): EXISTING ITEMS OF CONSTRUCTION THAT ARE NOT TO BE PERMANENTLY REMOVED AND THAT ARE NOT OTHERWISE INDICATED TO BE REMOVED, REMOVED AND SALVAGED, OR REMOVED AND REINSTALLED. MAINTAIN SERVICES/SYSTEMS INDICATED TO REMAIN AND PROTECT THEM AGAINST DAMAGE.

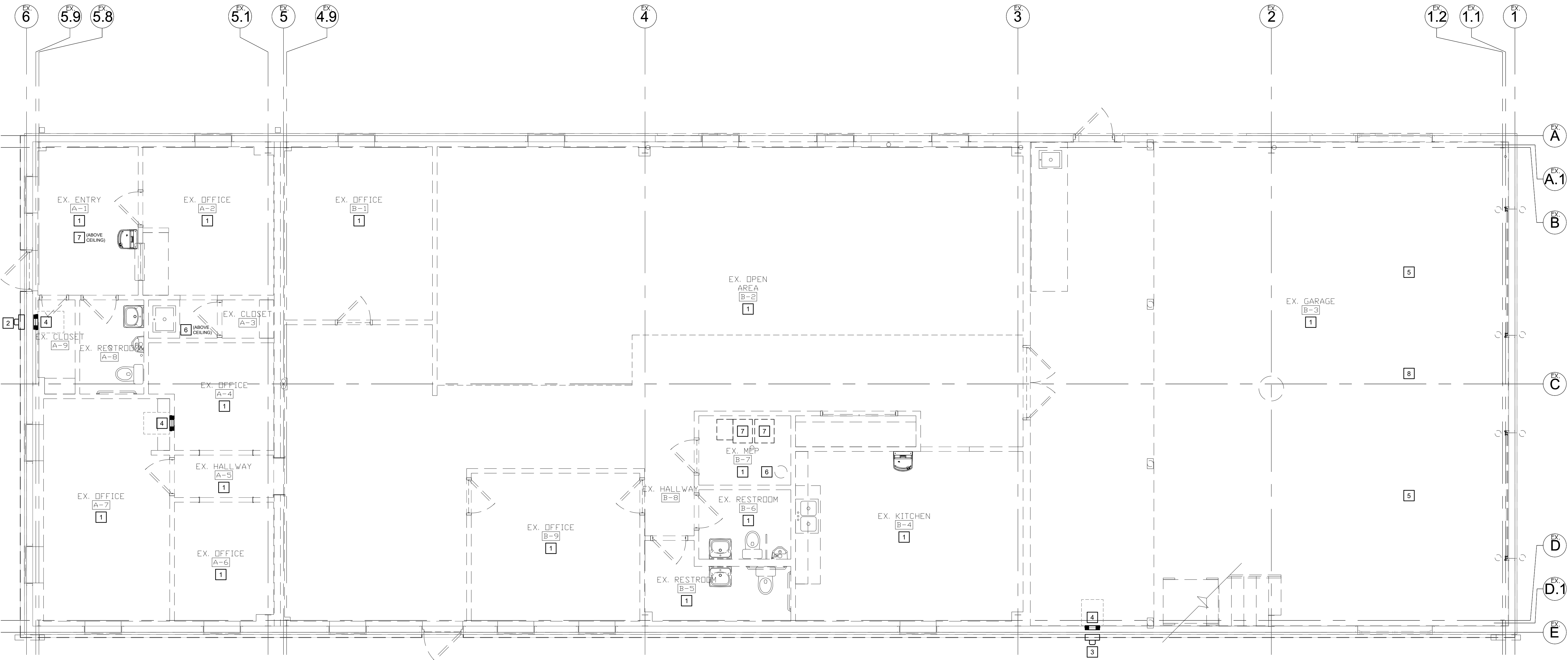
DISCONNECT, DEMOLISH, AND REMOVE ELECTRICAL, EQUIPMENT, AND COMPONENTS INDICATED TO BE REMOVED.

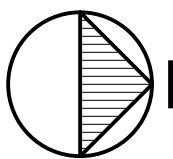
EQUIPMENT TO BE REMOVED: DISCONNECT AND CAP SERVICES AND REMOVE EQUIPMENT. REMOVE ELECTRICAL WIRING AND CONDUIT BACK TO PANELBOARD OR J.B.

EQUIPMENT TO BE REMOVED AND REINSTALLED: DISCONNECT AND CAP SERVICES AND REMOVE, CLEAN, AND STORE EQUIPMENT; WHEN APPROPRIATE, REINSTALL, RECONNECT, AND MAKE EQUIPMENT OPERATIONAL.

PLAN NOTES - DEMOLITION

1. COMPLETELY REMOVE ALL RECEPTACLE AND OTHER LINE VOLTAGE AND LOW OUTLETS, WIRING AND RACEWAYS UNLESS NOTED OTHERWISE.
2. COMPLETELY REMOVE ELECTRIC METER AND SERVICE. COORDINATE SCHEDULE WITH MONG PROJECT COORDINATOR AND AMEREN PRIOR TO BEGINNING WORK.
3. EXISTING ELECTRIC SERVICE TO REMAIN. COORDINATE WITH AMEREN FOR TEMPORARY DISCONNECTION TO DEMOLITION OF LOAD CENTER. PROVIDE TEMPORARY SUPPORT FOR METER DURING EXTERIOR DEMOLITION AND CONSTRUCTION.
4. REMOVE LOAD CENTER.
5. DISCONNECT OVERHEAD DOOR OPERATORS.
6. DISCONNECT POWER TO WATER HEATER.
7. DISCONNECT POWER TO GAS FURNACE.
8. DISCONNECT UNIT HEATER.



 **ELECTRICAL DEMOLITION FLOOR PLAN**
SCALE: 1/4" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

G&W
ENGINEERING

138 WELDON PARKWAY ST. LOUIS, MO 63043
(314) 469-3737 PROJECT NUMBER: 2025-0538.00
WWW.GANDWENGINEERING.COM
MISSOURI STATE CERTIFICATE OF AUTHORITY # 2002018767



07/23/2026

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DEPARTMENT OF
MISSOURI NATIONAL GUARD

REPAIRS TO
INTERIOR/EXTERIOR,
UNHEATED STORAGE
BUILDING
BELLEFONTAINE
READINESS CENTER
10625 LEWIS & CLARK BLVD.
ST. LOUIS, MO 63136

PROJECT # T2331-01
SITE # 6322
FACILITY # 7016322002
-

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 07/23/2026

CAD DWG FILE: T2331-01-6322-ED-101
DRAWN BY: MKA
CHECKED BY: DJW
DESIGNED BY: MKA

SHEET TITLE:
**ELECTRICAL
DEMOLITION
FLOOR PLAN**

SHEET NUMBER:

ED-101

27 OF 32 SHEETS
07/23/2026

DEMOLITION DEFINITIONS

REMOVE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF OFF-SITE UNLESS INDICATED TO BE REMOVED AND REINSTALLED. FOR DISCONNECTED ITEMS REMOVE ALL ELECTRICAL CONDUIT AND WIRING BACK TO PANELBOARD OR J.B. REMOVE LOW VOLTAGE WIRING BACK TO CONTROL OR PATCH PANEL OR PUNCHDOWN BLOCKS.

REMOVE AND REINSTALL (RR): DETACH ITEMS FROM EXISTING CONSTRUCTION, PREPARE FOR REUSE, AND REINSTALL WHERE INDICATED.

EXISTING TO REMAIN (E): EXISTING ITEMS OF CONSTRUCTION THAT ARE NOT TO BE PERMANENTLY REMOVED AND THAT ARE NOT OTHERWISE INDICATED TO BE REMOVED, REMOVED AND SALVAGED, OR REMOVED AND REINSTALLED. MAINTAIN SERVICES/SYSTEMS INDICATED TO REMAIN AND PROTECT THEM AGAINST DAMAGE.

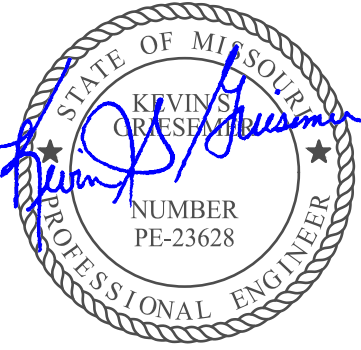
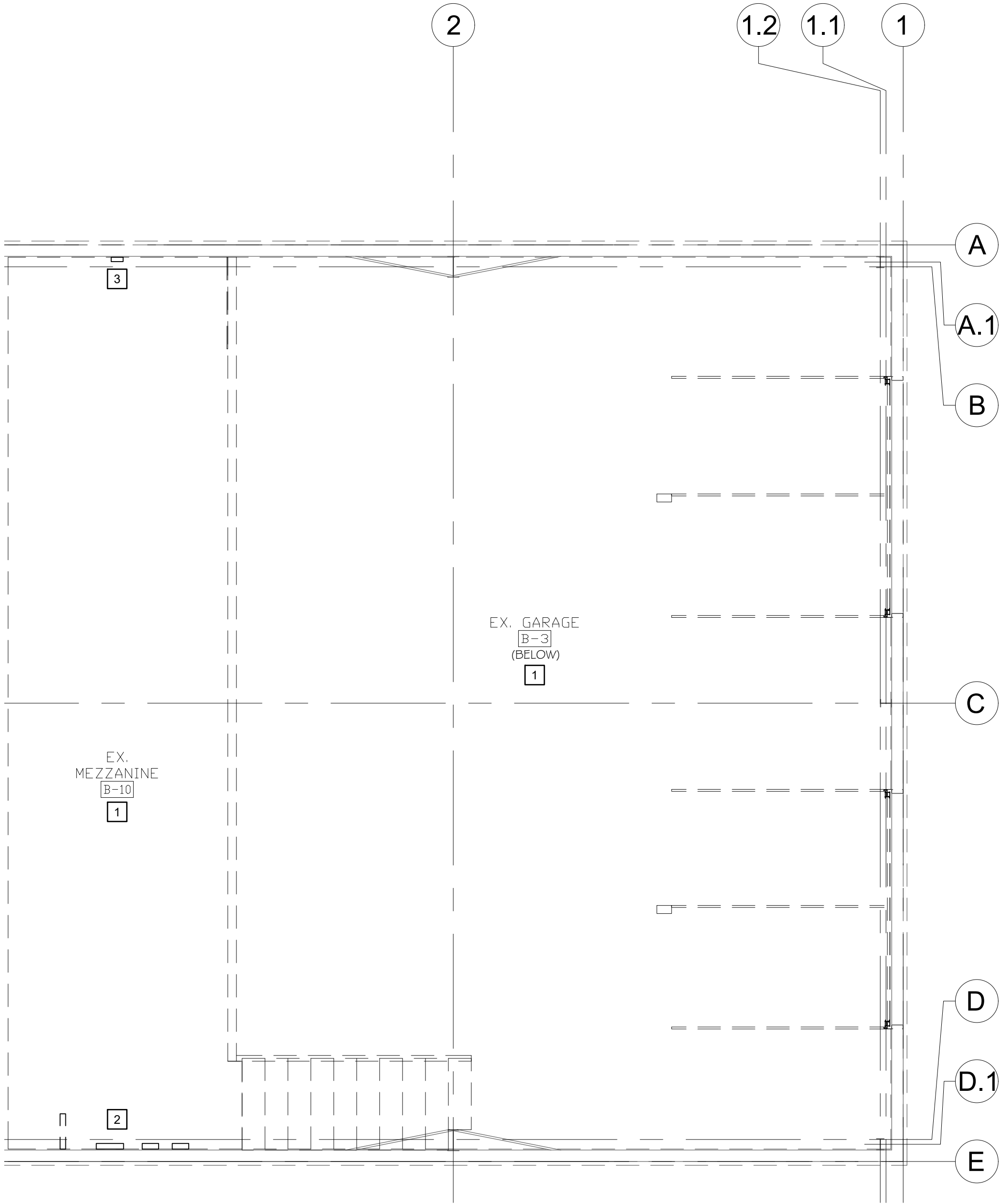
DISCONNECT, DEMOLISH, AND REMOVE ELECTRICAL, EQUIPMENT, AND COMPONENTS INDICATED TO BE REMOVED.

EQUIPMENT TO BE REMOVED: DISCONNECT AND CAP SERVICES AND REMOVE EQUIPMENT. REMOVE ELECTRICAL WIRING AND CONDUIT BACK TO PANELBOARD OR J.B.

EQUIPMENT TO BE REMOVED AND REINSTALLED: DISCONNECT AND CAP SERVICES AND REMOVE, CLEAN, AND STORE EQUIPMENT; WHEN APPROPRIATE, REINSTALL, RECONNECT, AND MAKE EQUIPMENT OPERATIONAL.

PLAN NOTES - DEMOLITION

1. COMPLETELY REMOVE ALL RECEPTACLE AND OTHER LINE VOLTAGE AND LOW OUTLETS, WIRING AND RACEWAYS UNLESS NOTED OTHERWISE.
2. COMPLETELY REMOVE SECURITY AND TELECOMMUNICATIONS EQUIPMENT, PUNCHDOWN BLOCKS, RACKS, RACEWAYS AND CABLING.
3. COMPLETELY REMOVE ENCLOSURE, RACEWAYS AND CABLING.



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ISSUE DATE: 07/23/2026

CAD DWG FILE: T2331-01-6322-ED-102
DRAWN BY: MKA
CHECKED BY: DJW
DESIGNED BY: MKA

SHEET TITLE:
**ELECTRICAL
DEMOLITION
MEZZANINE PLAN**

SHEET NUMBER:

ED-102

28 OF 32 SHEETS
07/23/2026

DEMOLITION DEFINITIONS

REMOVE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF OFF-SITE UNLESS INDICATED TO BE REMOVED AND REINSTALLED. FOR DISCONNECTED ITEMS REMOVE ALL ELECTRICAL CONDUIT AND WIRING BACK TO PANELBOARD OR J.B. REMOVE LOW VOLTAGE WIRING BACK TO CONTROL OR PATCH PANEL OR PUNCHDOWN BLOCKS.

REMOVE AND REINSTALL (RR): DETACH ITEMS FROM EXISTING CONSTRUCTION, PREPARE FOR REUSE, AND REINSTALL WHERE INDICATED.

EXISTING TO REMAIN (E): EXISTING ITEMS OF CONSTRUCTION THAT ARE NOT TO BE PERMANENTLY REMOVED AND THAT ARE NOT OTHERWISE INDICATED TO BE REMOVED, REMOVED AND SALVAGED, OR REMOVED AND REINSTALLED. MAINTAIN SERVICES/SYSTEMS INDICATED TO REMAIN AND PROTECT THEM AGAINST DAMAGE.

DISCONNECT, DEMOLISH, AND REMOVE ELECTRICAL, EQUIPMENT, AND COMPONENTS INDICATED TO BE REMOVED.

EQUIPMENT TO BE REMOVED: DISCONNECT AND CAP SERVICES AND REMOVE EQUIPMENT. REMOVE ELECTRICAL WIRING AND CONDUIT BACK TO PANELBOARD OR J.B.

EQUIPMENT TO BE REMOVED AND REINSTALLED: DISCONNECT AND CAP SERVICES AND REMOVE, CLEAN, AND STORE EQUIPMENT; WHEN APPROPRIATE, REINSTALL, RECONNECT, AND MAKE EQUIPMENT OPERATIONAL.

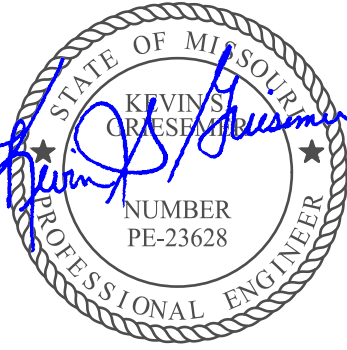
PLAN NOTES - DEMOLITION

1. COMPLETE REMOVE ALL LIGHT FIXTURE, SWITCHES, RACEWAYS AND WIRING.
2. REMOVE WALL PACK.

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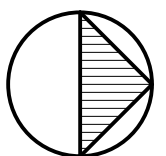
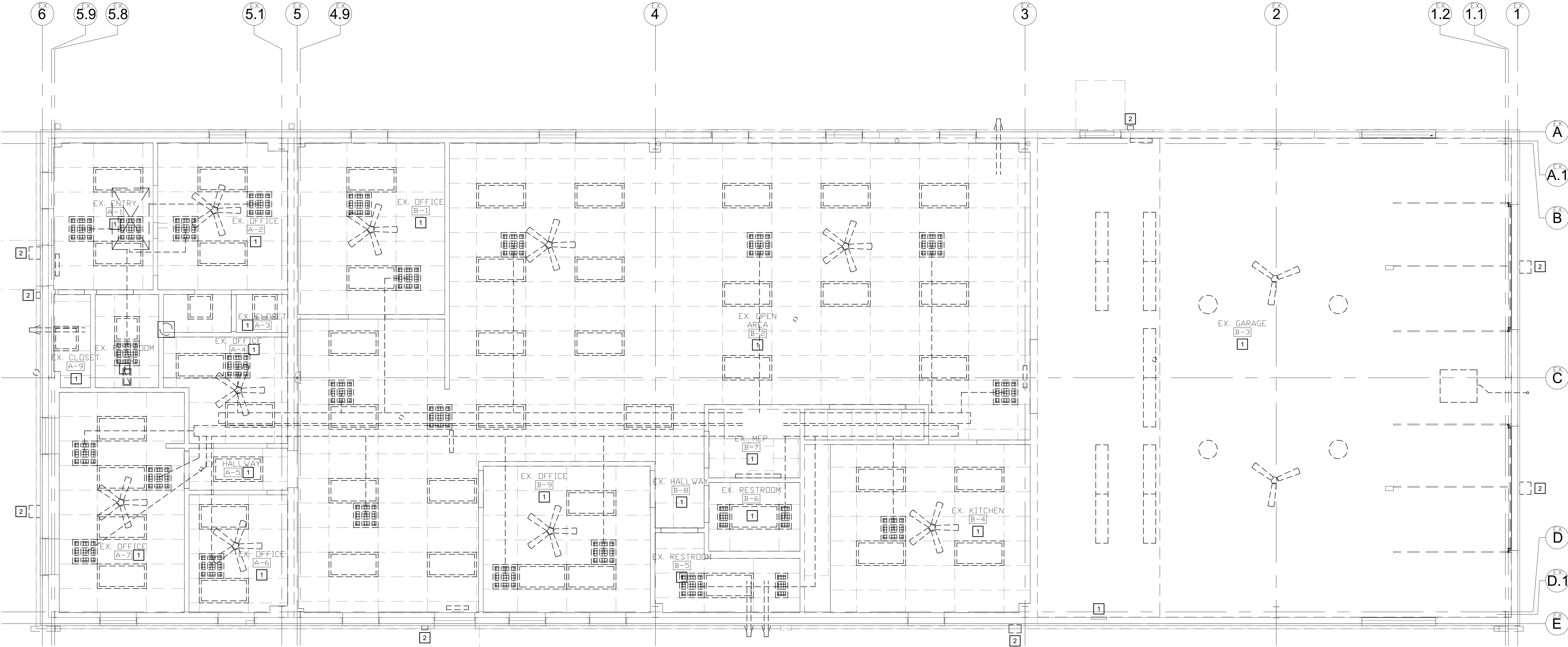
CAD DWG FILE: T2331-01-6322-ED-103
DRAWN BY: MKA
CHECKED BY: DJW
DESIGNED BY: MKA

SHEET TITLE:
ELECTRICAL
DEMOLITION
CEILING PLAN

SHEET NUMBER:

ED-103

29 OF 32 SHEETS
07/23/2026



ELECTRICAL DEMOLITION CEILING PLAN

SCALE: 1/4" = 1'-0"

PLAN NOTES - ELECTRICAL

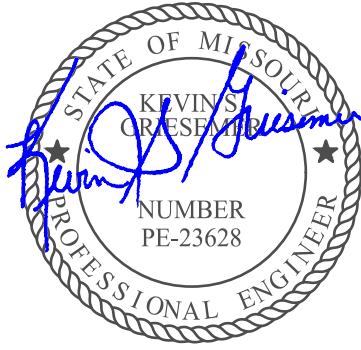
1. PROVIDE (3) #3/0 CU, 1-1/2" EMT FEEDER FROM METER TO PANELBOARD.
2. PROVIDE GROUNDING ELECTRODE SYSTEM. INSTALL BARE #6 CU WIRE TO 5/8X10' GROUND ROD AND #4 CU WIRE TO BUILDING STEEL.

STATE OF MISSOURI
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CAD DWG FILE: T2331-01-6322-E-101
DRAWN BY: MKA
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DESIGNED BY: MKA

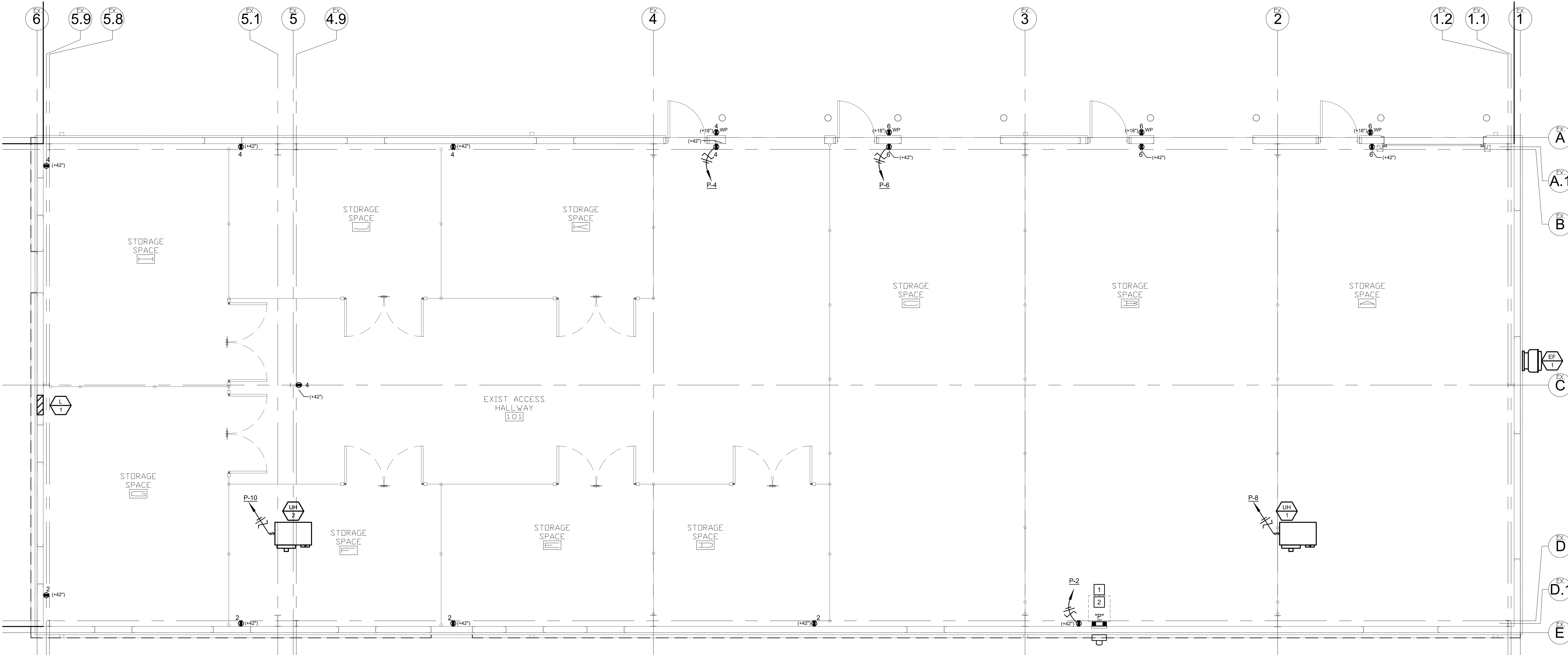
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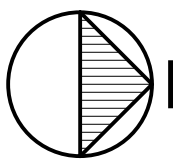
ELECTRICAL
FLOOR PLAN

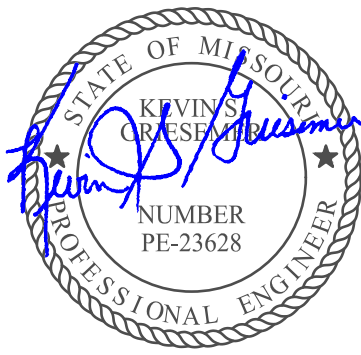
SHEET NUMBER:

E-101

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07/23/2026



 ELECTRICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"



07/23/2026

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CAD DWG FILE: T2331-01-6322-E-102
DRAWN BY: MKA
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DESIGNED BY: MKA

SHEET TITLE:
ELECTRICAL
CEILING PLAN

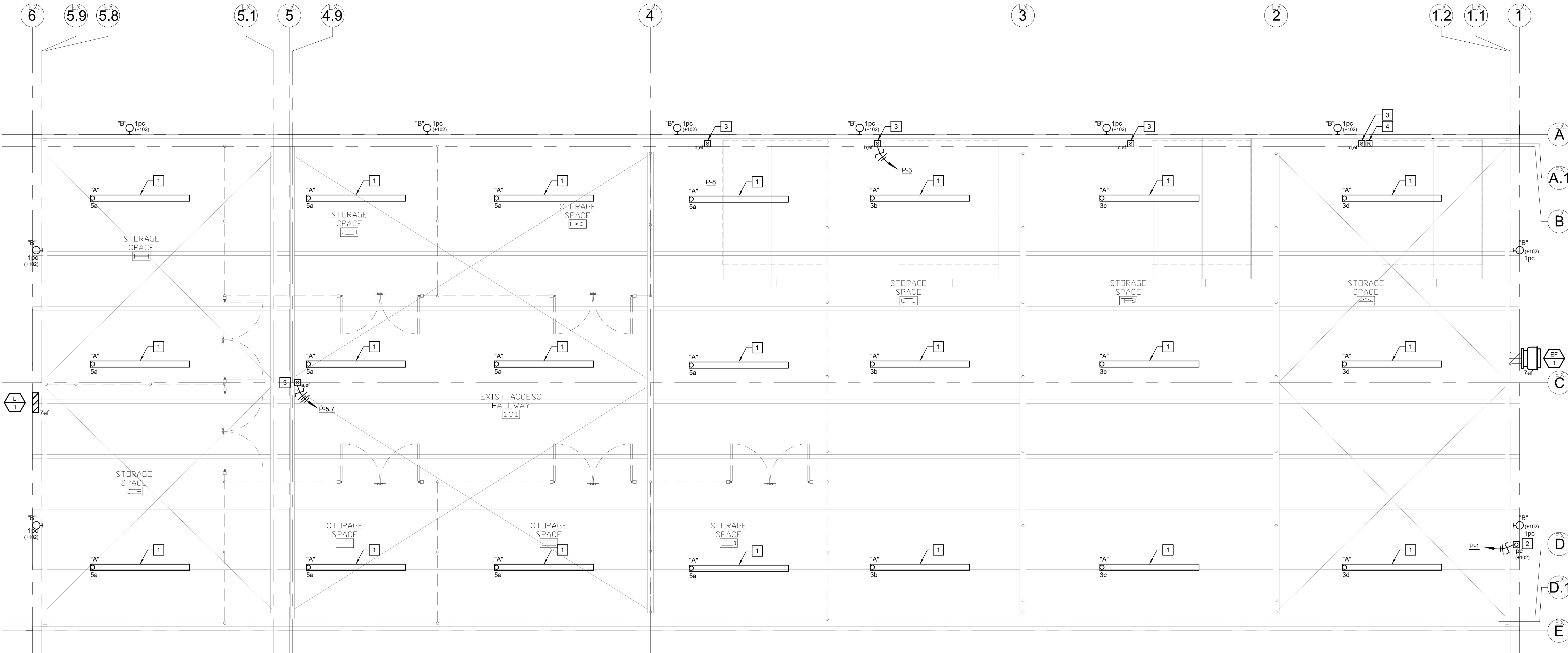
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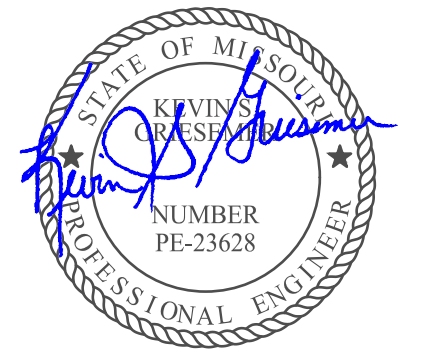
E-102

31 OF 32 SHEETS
07/23/2026

PLAN NOTES - ELECTRICAL

1. ATTACH TYPE "A" STRIP FIXTURES TO BOTTOM OF PURLIN.
2. INSTALL INTERMATIC "K4121C" PHOTOCONTROL TO CONTROL TYPE "B" WALL PACKS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL PACK LOCATIONS.
3. REFER TO DETAIL 1/E-601 FOR LIGHTING AND EXHAUST FAN AND LOUVER CONTROL WIRING.
4. RELAY FOR FAN / LOUVER CONTROL.REFER TO DETAIL 1/E-601





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ISSUE DATE: 07/23/2026

CAD DWG FILE: T2331-01-6322-E-601
DRAWN BY: MKA
CHECKED BY: DJW
DESIGNED BY: MKA

SHEET TITLE:

ELECTRICAL
DETAILS &
SCHEDULES

SHEET NUMBER:

E-601

32 OF 32 SHEETS
07/23/2026

LIGHTING FIXTURE SCHEDULE

PLAN MARK	MOUNTING	MANUFACTURER	MODEL NO.	LUMENS (LAMPS)	KELVIN	VOLTAGE	INPUT WATTS	FINISH	NOTES
A	C/S	METALUX	8TSNX-SL3-LW-UNV-CC830-CD2-U	3400/6700/10100	4000	UNV	34/67/101	WHITE	1, 2
B	W/S	LUMARK	AXCS1ARL	1894	4000	UNV	12	BRONZE	1

ORDERING NOTES:

1. PROVIDE SPECIFIED PRODUCTS OR EQUIVALENT PRODUCT FROM, BUT NOT LIMITED TO, ACUITY LIGHTING, COOPER LIGHTING, GENLYTE, HE WILLIAMS OR SIGNIFY BRANDS

2. SELECTABLE CCT AND LUMEN OUTPUT. FACTORY SET TO 4000K MEDIUM OUTPUT.

ABBREVIATIONS:

C/CAC CEILING AIR-CRAFT CABLE, C/CV CEILING COVE, C/P CEILING PENDANT, C/R CEILING RECESSED, C/S CEILING SURFACE, C/SP CEILING SUSPENDED, C/TK TRACK MOUNTED, F/S FLOOR SURFACE, G/P GRADE PAD, G/PL GRADE POLE, R/S ROOF SURFACE, TBD TO BE DETERMINED, U/C UNDER COUNTER, UNIV. UNIVERSAL, W/R WALL RECESSED, W/S WALL SURFACE

PANELBOARD SCHEDULE

DESIGNATION/I.D:		P	TYPE OF PANEL: CIRCUIT BREAKER **		MOUNTING: SURFACE		
VOLTAGE:		120/ 240	/1PH-3W	BUS SIZE (AMPS):	225	MAIN SWITCH: 200A MCB	MAIN RATING AIC 10k
POLES:		2PSN	LUGS: STANDARD	TOTAL SPACE REQUIRED:		42	
FEEDER:		SEE RISER DIAGRAM		POWER SOURCE:		SERVICE	
NOTES:							

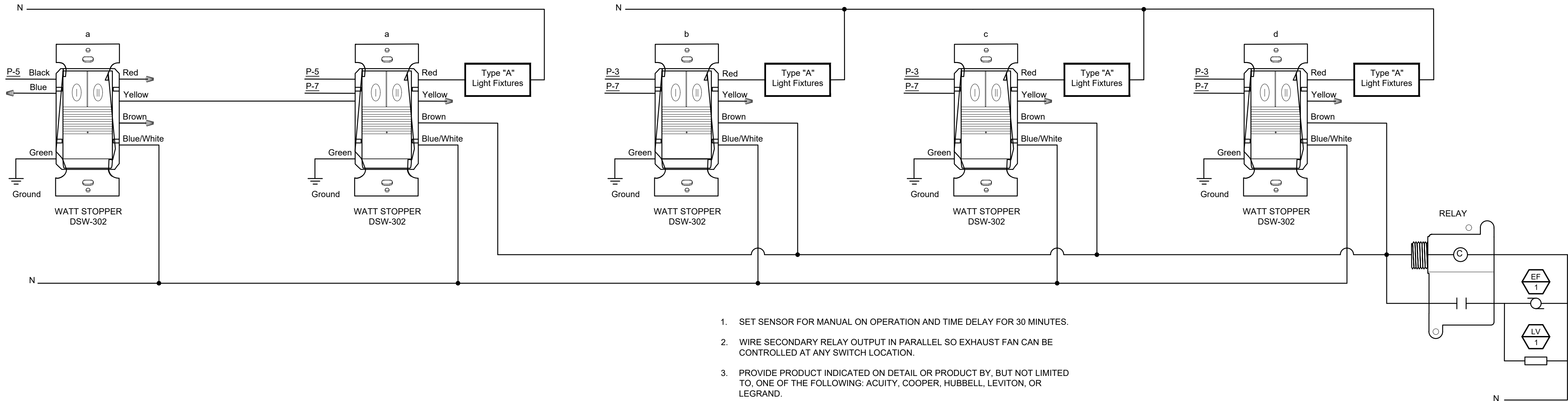
C K T #	C/B	LOAD (WATTS)			C L A S S	LOAD DESCRIPTION	LOAD DESCRIPTION	C L A S S	LOAD (WATTS)			C/B	C K T #
		AØ	BØ						AØ	BØ			
1	20/1	120			L	LTG - EXTERIOR	REC - EAST	R	900			20/1	2
3	20/1		1452		L	LTG - STORAGE A-D	REC - NORTH	R		1080		20/1	4
5	20/1	909			L	LTG - STORAGE SPACES E-K	REC - NORTH	R	1080			20/1	6
7	15/1		600		M1	EF-1 & LV-1	UH-1	M1		506		20/1	8
9	20/1					SPARE	UH-2	M1		506		20/1	10
11	20/1					SPARE						20/1	12
13	20/1					SPARE						20/1	14
15	1P					SPACE						1P	16
17	1P					SPACE						1P	18
19	1P					SPACE						1P	20
21	1P					SPACE						1P	22
23	1P					SPACE						1P	24
25	1P					SPACE						1P	26
27	1P					SPACE						1P	28
29	1P					SPACE						1P	30
TOTALS		1029	2052	0					2486	1586	0	TOTALS	

CONNECTED LOAD: 7,153VA
(VOLT-AMPERE)

NOTES: * PROVIDE LOCK ON DEVICE

CALC. DEMAND
LOAD AMPERE: 32A

CLASS: M1= SINGLE PH MOTOR, M3=3PH MOTOR, M2=2PH MOTOR, L=LIGHTING, R=RECEPTACLE, A1=1PH A/C LOAD, A2=2PH A/C LOAD, A3=3PH A/C LOAD, H=HEATING, K=KITCHEN, XF=TRANSFORMER-PANEL, SF=SUB-FEED



1. SET SENSOR FOR MANUAL ON OPERATION AND TIME DELAY FOR 30 MINUTES.
2. WIRE SECONDARY RELAY OUTPUT IN PARALLEL SO EXHAUST FAN CAN BE CONTROLLED AT ANY SWITCH LOCATION.
3. PROVIDE PRODUCT INDICATED ON DETAIL OR PRODUCT BY, BUT NOT LIMITED TO, ONE OF THE FOLLOWING: ACUITY, COOPER, HUBBELL, LEVITON, OR LEGRAND.
4. PROVIDE 20A POWER CONTROL RELAY WITH 120V COIL VOLTAGE, 20A 1HP @ 120VAC CONTACT. FUNCTIONAL DEVICES RIB2401B, OR EQUIVALENT.

1
E-601
LIGHTNG AND EXHAUST FAN CONTROL DIAGRAM.
NO SCALE