

DESIGN & CONSTRUCT ELEVATOR & ASSEMBLY

MILITARY EDUCATION FACILITY

IKE SKELTON TRAINING SITE

JEFFERSON CITY, MISSOURI



CONNELL ARCHITECTURE, P.C.

2311 East Walnut Sreet Suite B
Columbia, Missouri 65201
573-875-2455
brianconnell@connellarchitecture.com

OWNER: STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR
MISSOURI NATIONAL GUARD

DESIGNER: CONNELL ARCHITECTURE, P.C.
2311 EAST WALNUT STREET SUITE B
COLUMBIA, MISSOURI 65201

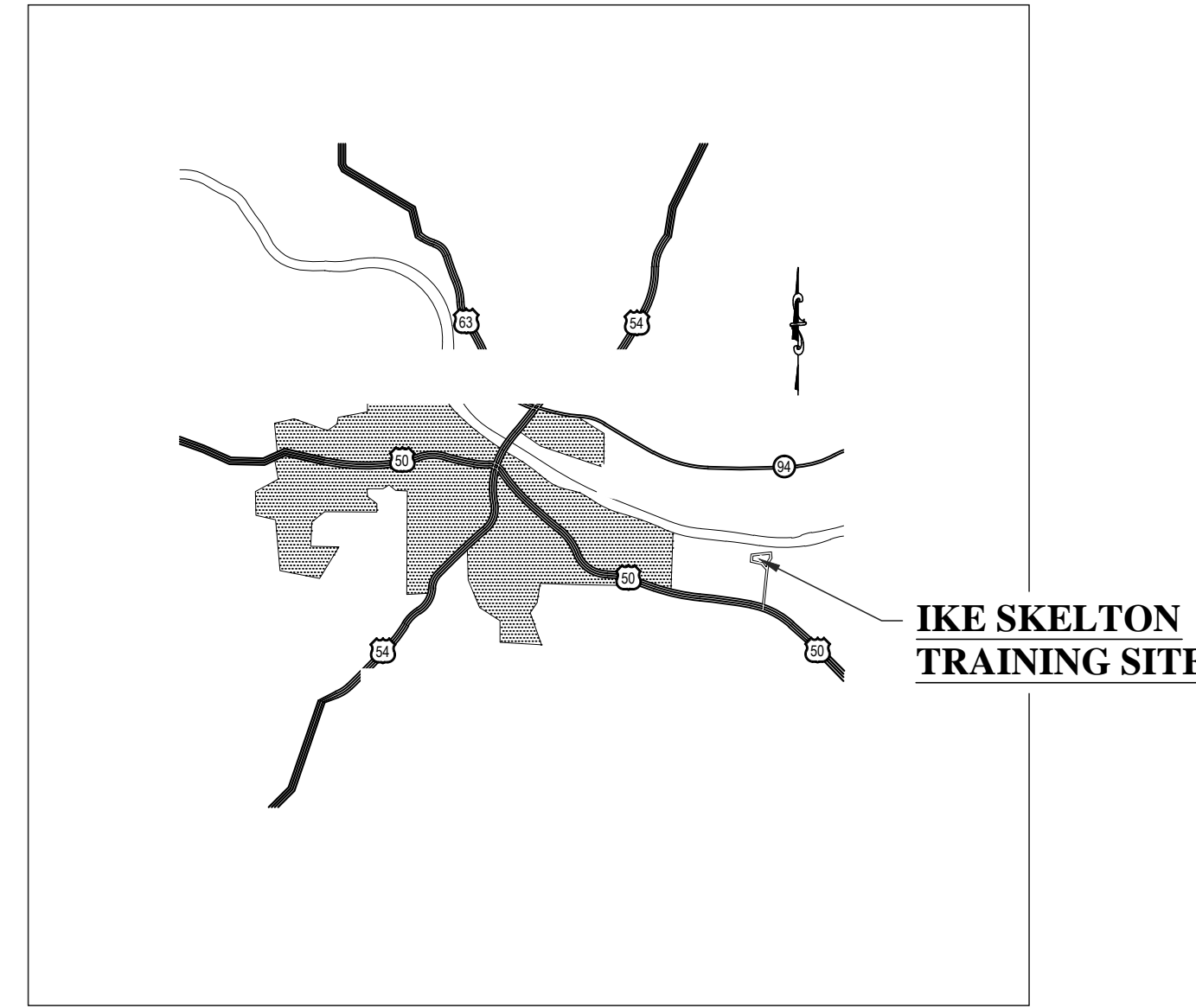
PROJECT NUMBER: T2211-01

PROJECT
MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

SITE NUMBER: 6300
ASSET NUMBER: 8136300012



1 MISSOURI STATE MAP
NOT TO SCALE



2 VICINITY MAP - IKE SKELTON TRAINING SITE
NOT TO SCALE

ASBESTOS CONTAINING MATERIALS
A LIMITED ASBESTOS INSPECTION WAS PERFORMED WITHIN THE "LIMITS OF WORK" AREA OF THE MILITARY EDUCATION FACILITY IDENTIFIED IN THE CONSTRUCTION DOCUMENTS.
ASBESTOS CONTAINING MATERIALS WERE NOT DETECTED WITHIN THE "LIMITS OF WORK" AREA IDENTIFIED IN THE CONSTRUCTION DOCUMENTS.
ASBESTOS ABATEMENT WILL NOT BE REQUIRED ON THIS BUILDING.
REFER TO APPENDIX 1 IN THE PROJECT MANUAL FOR FULL DETAIL.
THE CONTRACTOR SHALL IMMEDIATELY REPORT THE DISCOVERY OF ANY HAZARDOUS MATERIALS TO THE CONSTRUCTION ADMINISTRATOR.

LEAD CONTAINING MATERIALS
A LIMITED LEAD INSPECTION WAS PERFORMED WITHIN THE "LIMITS OF WORK" AREA OF THE MILITARY EDUCATION FACILITY INCLUDED IN THE SCOPE OF THIS PROJECT.
LEAD CONTAINING MATERIALS WERE NOT DETECTED WITHIN THE "LIMITS OF WORK" AREA IDENTIFIED IN THE CONSTRUCTION DOCUMENTS.
LEAD ABATEMENT WILL NOT BE REQUIRED ON THIS BUILDING.
REFER TO APPENDIX 2 IN THE PROJECT MANUAL FOR FULL DETAIL.
THE CONTRACTOR SHALL IMMEDIATELY REPORT THE DISCOVERY OF ANY HAZARDOUS MATERIALS TO THE CONSTRUCTION ADMINISTRATOR.

GENERAL NOTES:

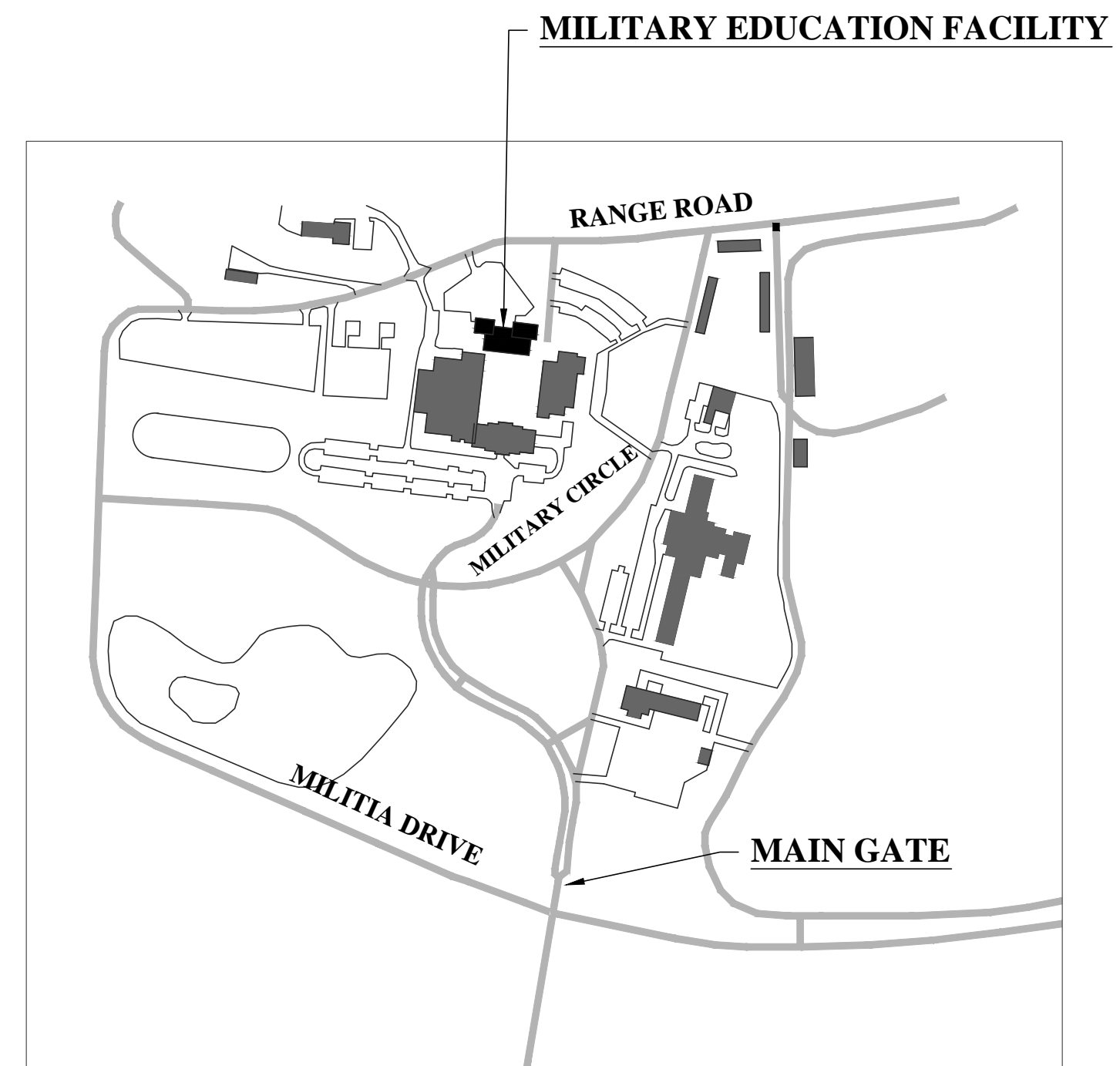
- DRAWINGS - THESE DRAWINGS SHALL NOT BE SCALED. REFER TO DIMENSIONS INDICATED, ACTUAL SIZES OF CONSTRUCTION ITEMS, OR OTHER RELIABLE METHODS OF LOCATING CONSTRUCTION. WHERE NO DIMENSION OR METHOD OF DETERMINING A LOCATION IS GIVEN, VERIFY CORRECT LOCATION WITH CONNELL ARCHITECTURE P.C. PRIOR TO INSTALLATION.
- DIMENSIONS - DIMENSIONS ON PLANS ARE FROM FACE OF CONCRETE, MASONRY, OR FRAMING UNLESS OTHERWISE NOTED. DIMENSIONS INDICATED AS "CLEAR" ARE CRITICAL FOR MINIMUM REQUIRED CLEARANCES AND SHALL BE A MINIMUM DIMENSION MEASURED FROM FACE OF FINISH MATERIALS.
- COORDINATION - GENERAL CONTRACTOR SHALL COORDINATE REQUIREMENTS OF ALL TRADES TO ALLOW FOR TIMELY INCLUSION IN THE WORK SO AS NOT TO DELAY THE WORK OR THE WORK OF ANY SUBCONTRACTOR. FAILURE TO REVIEW ALL CONTRACT DOCUMENTS FOR APPLICABLE ITEMS OF WORK SHALL NOT RELIEVE THE RESPONSIBLE PARTY FROM PERFORMING ALL WORK REQUIRED BY THE CONTRACT DOCUMENTS.
- EXISTING CONDITIONS - THE EXISTING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM OBSERVATIONS AND MEASUREMENTS TAKEN DURING SITE VISITS AND FROM ARCHIVE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS ON THE JOB SITE AND NOTIFY THE CONSTRUCTION ADMINISTRATOR OF DEVIATIONS FROM THESE DRAWINGS PRIOR TO FABRICATION AND INSTALLATION OF THE WORK.
- PRECAUTIONS - CONTRACTOR SHALL IMMEDIATELY REPORT ANY UNFORESEEN CONDITIONS DISCOVERED IN THE WORK WHICH COULD RESULT IN DAMAGE TO THE STRUCTURE OR INJURY TO THE OCCUPANTS TO THE OWNER'S REPRESENTATIVE AND THE CONSTRUCTION ADMINISTRATOR. IMPLEMENT NECESSARY PRECAUTIONS TO PROPERLY SUPPORT THE STRUCTURE AND PROTECT THE OCCUPANTS.
- HAZARDOUS MATERIALS - CONTRACTOR SHALL IMMEDIATELY REPORT THE DISCOVERY OF ANY HAZARDOUS MATERIALS TO THE OWNER'S REPRESENTATIVE AND CONSTRUCTION ADMINISTRATOR.
- SITE UTILIZATION - USE OF THE SITE FOR ANY CONSTRUCTION STAGING OR OTHER OPERATIONS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND CONSTRUCTION ADMINISTRATOR. THE CONTRACTOR'S OPERATIONS SHALL NOT OBSTRUCT OR ADVERSELY AFFECT ANY PUBLIC RIGHT-OF-WAY OR ADJACENT PROPERTIES.
- EXIT ACCESS - MAINTAIN FREE, SAFE, AND APPROVED MEANS OF EGRESS IN AND OUT OF PROJECT LOCATION AND EXISTING OCCUPIED BUILDINGS IN ACCORDANCE WITH REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES.
- CONTRACTOR SHALL FURNISH & INSTALL ALL SYSTEMS, MATERIALS, COMPONENTS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION, WHETHER OR NOT ALL SUCH MATERIALS & DETAILS OF INSTALLATION HAVE BEEN SPECIFICALLY MENTIONED OR SHOWN ON THE CONSTRUCTION DRAWINGS. ALL INSTALLATION AND DETAILS TO CONFORM TO MANUFACTURER'S WRITTEN SPECIFICATIONS AND RECOMMENDATIONS.
- ANY AND ALL MATERIALS NOTED "TO REMAIN" ARE EXISTING MATERIALS TO REMAIN A PART OF THE WORK UNLESS OTHERWISE NOTED. ANY MATERIAL NOT DESIGNATED "TO REMAIN" SHALL BE REMOVED AND DISPOSED OF IN A LEGAL MANNER, AND REPLACED WITH NEW MATERIALS UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL PUBLIC AND PRIVATE UTILITIES.

CODES & REGULATIONS

- ALTERATIONS AND ADDITION SHALL COMPLY WITH 2021 IBC, 2021 IFC, 2021 IMC, 2021 IPC, AND 2020 NEC.
- ALTERATIONS AND ADDITION SHALL COMPLY WITH ICC A117.1-2017 - STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.
- ELEVATOR SHALL CONFORM TO ASME A17.1-2016 SAFETY CODE FOR ELEVATORS AND ESCALATORS (ELEVATOR CODE) AND 2021 INTERNATIONAL BUILDING CODE.

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3 SITE MAP - IKE SKELTON TRAINING SITE
NOT TO SCALE

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



12/22/2023
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JEFFERSON CITY, MO 65101

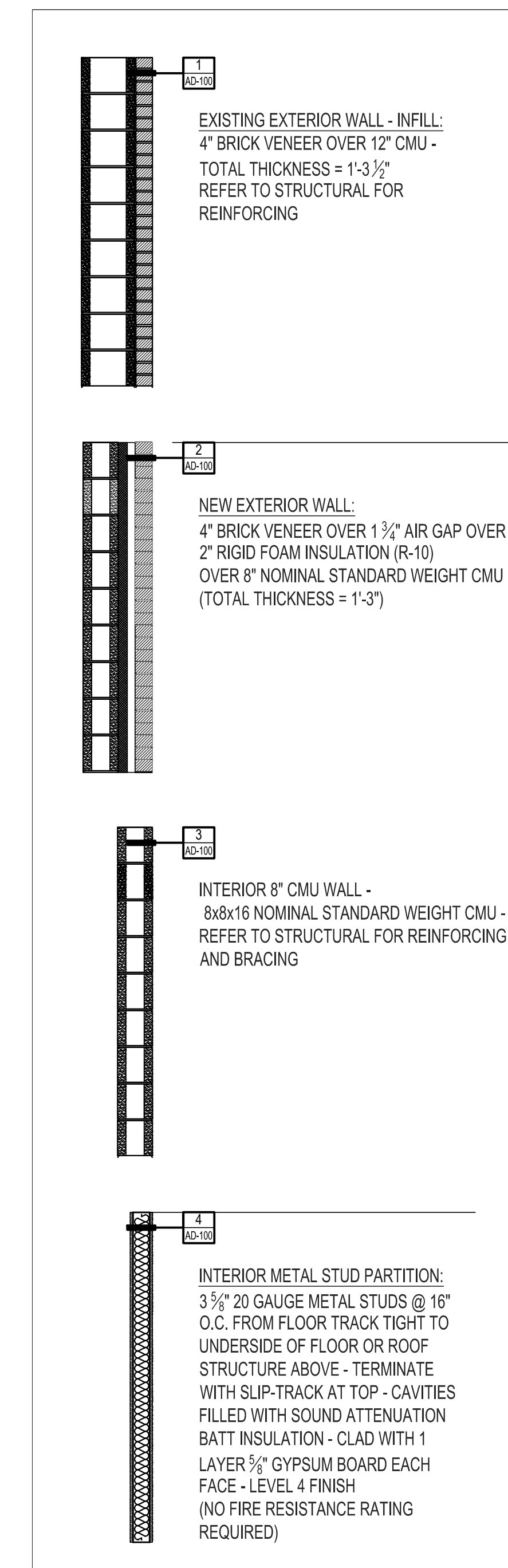
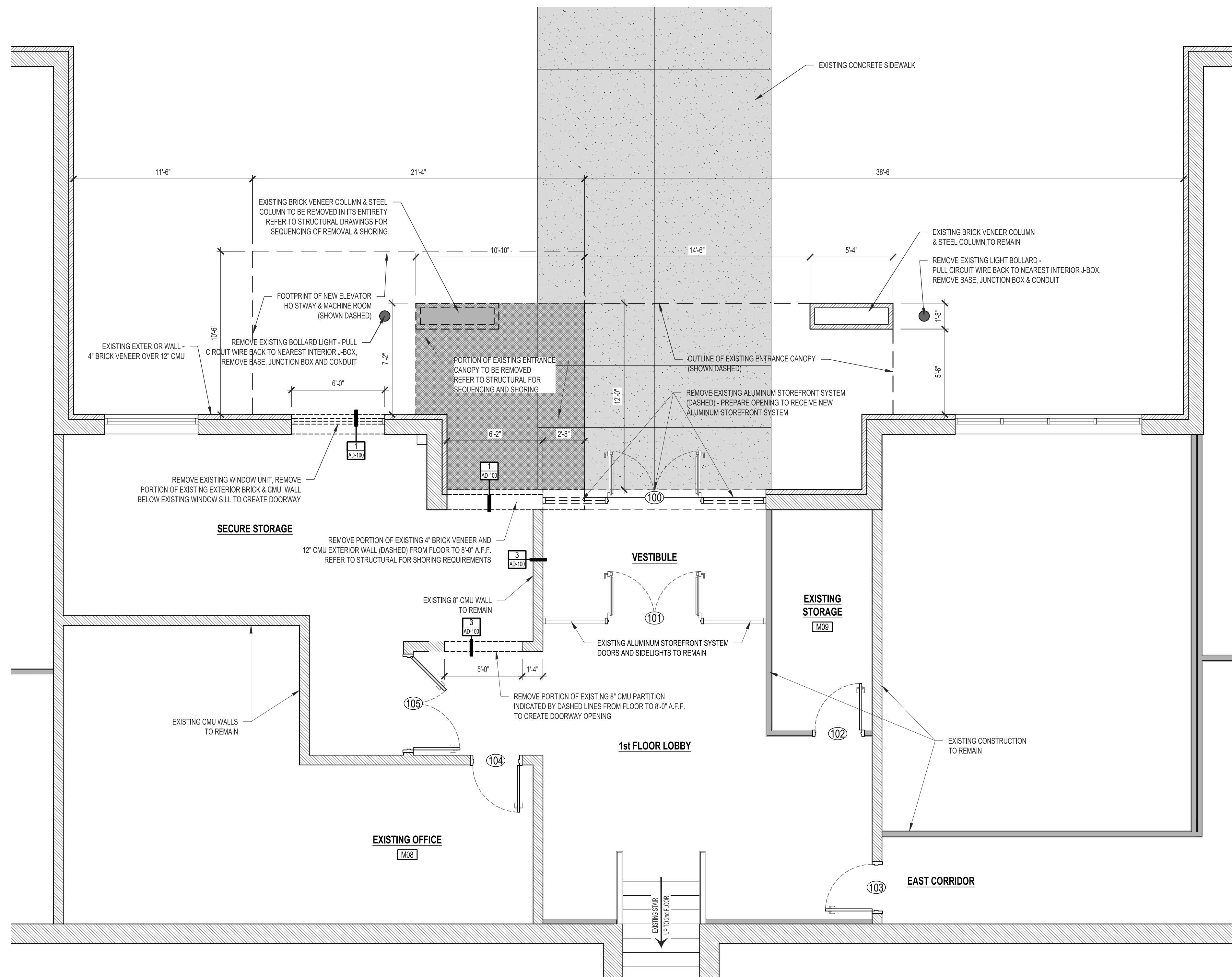
PROJECT No. T2211-01
SITE No. 6300
ASSET No. 8136300012

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

ISSUE DATE: 12/22/2023
CAD DWG FILE:
T2211-01-6300-8136300012-G-002
DRAWN BY: BDC
CHECKED BY: BDC
DESIGNED BY: BDC

SHEET TITLE:
**LOCATION MAPS &
DRAWING INDEX**

SHEET NUMBER:
G-002
SHEET 2 OF 29
ISSUE DATE: 12/22/2023



WALL TYPES



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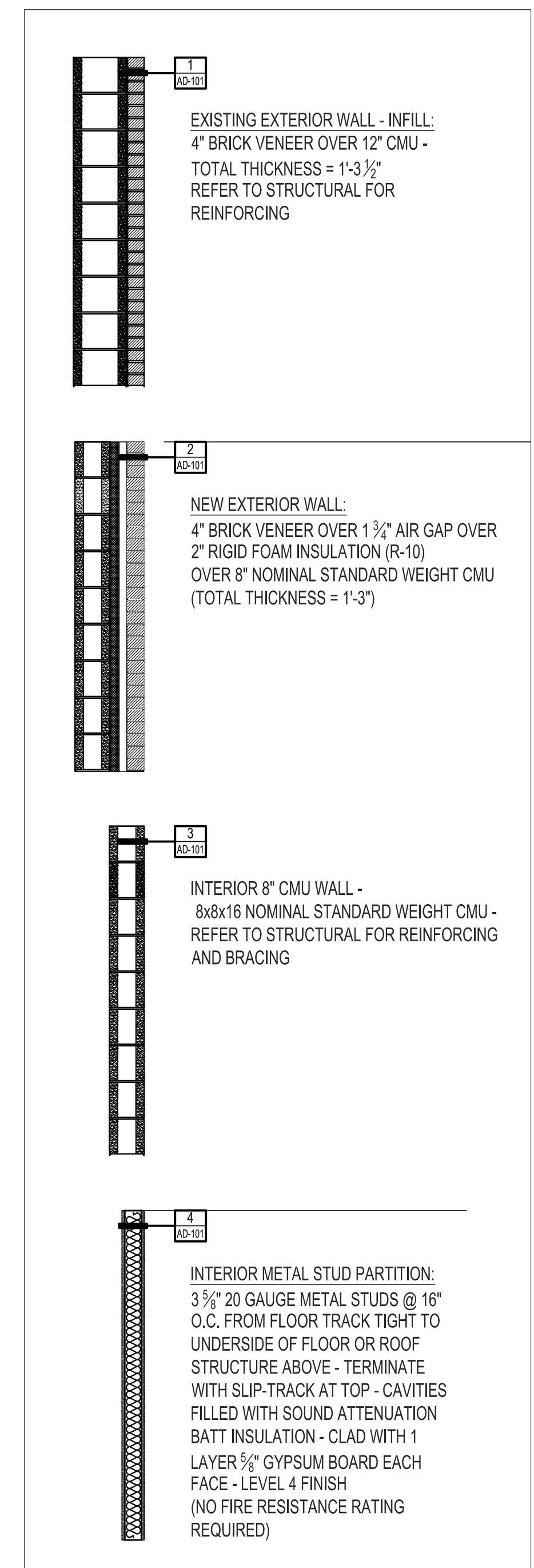
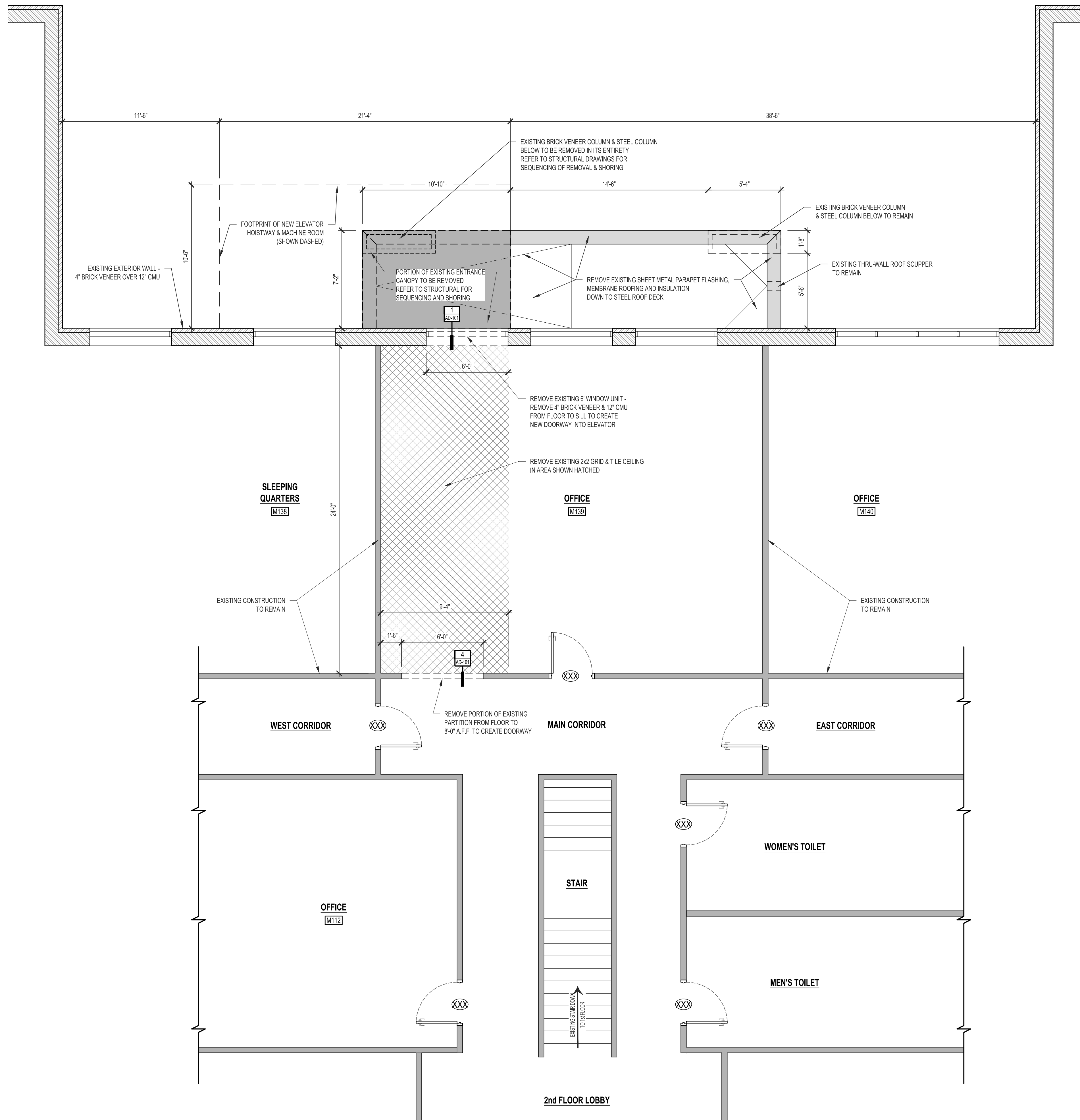
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SITE No. 6300
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DATE: _____
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T2211-01-6300-8136300012-AD-100
DRAWN BY: BDC
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SHEET TITLE:
**1st FLOOR PLAN -
SELECTIVE
DEMOLITION**

SHEET NUMBER:
AD-100
SHEET 3 OF 29
ISSUE DATE: 12/22/2023



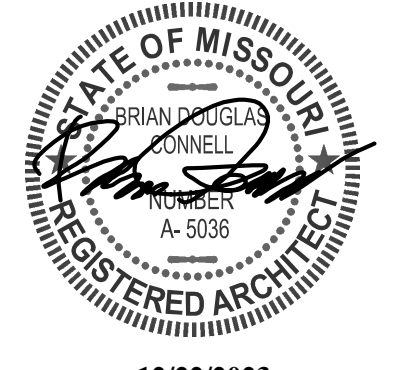
WALL TYPES



1
AD-101

2nd FLOOR PLAN - SELECTIVE DEMOLITION

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



12/22/2023
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PROJECT No. T2211-01
SITE No. 6300
ASSET No. 8136300012

REVISION: _____
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DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 12/22/2023

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DRAWN BY: BDC
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DESIGNED BY: BDC

SHEET TITLE:
**2nd FLOOR PLAN -
SELECTIVE
DEMOLITION**

SHEET NUMBER:
AD-101
SHEET 4 OF 29
ISSUE DATE: 12/22/2023



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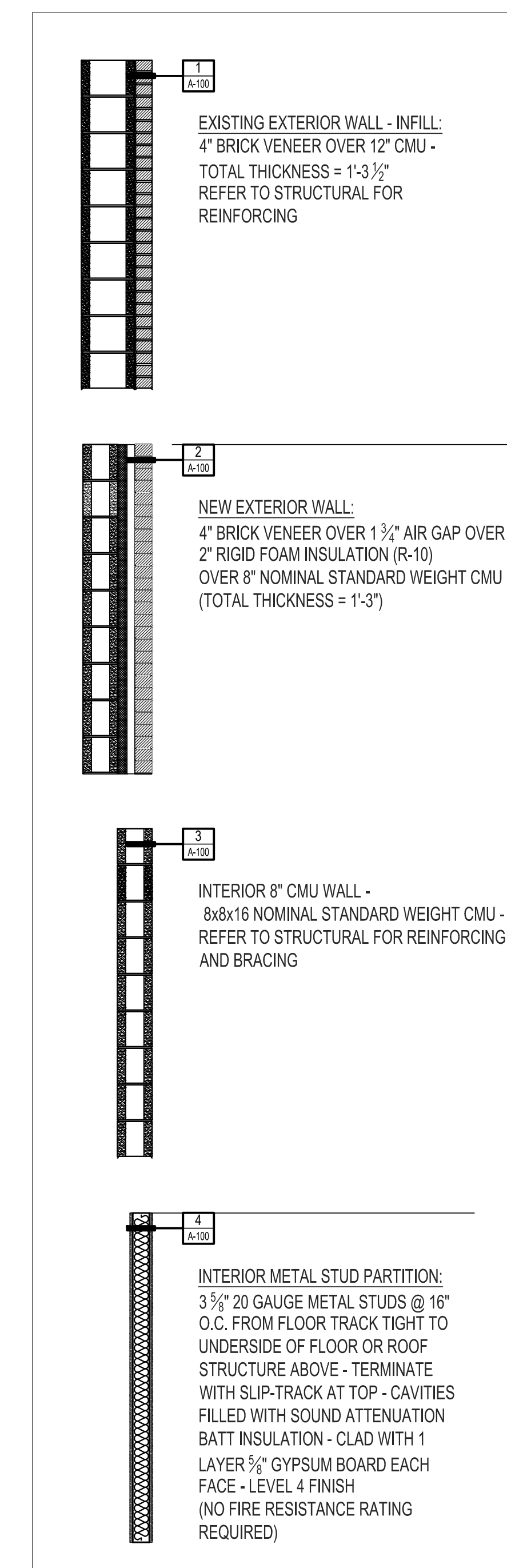
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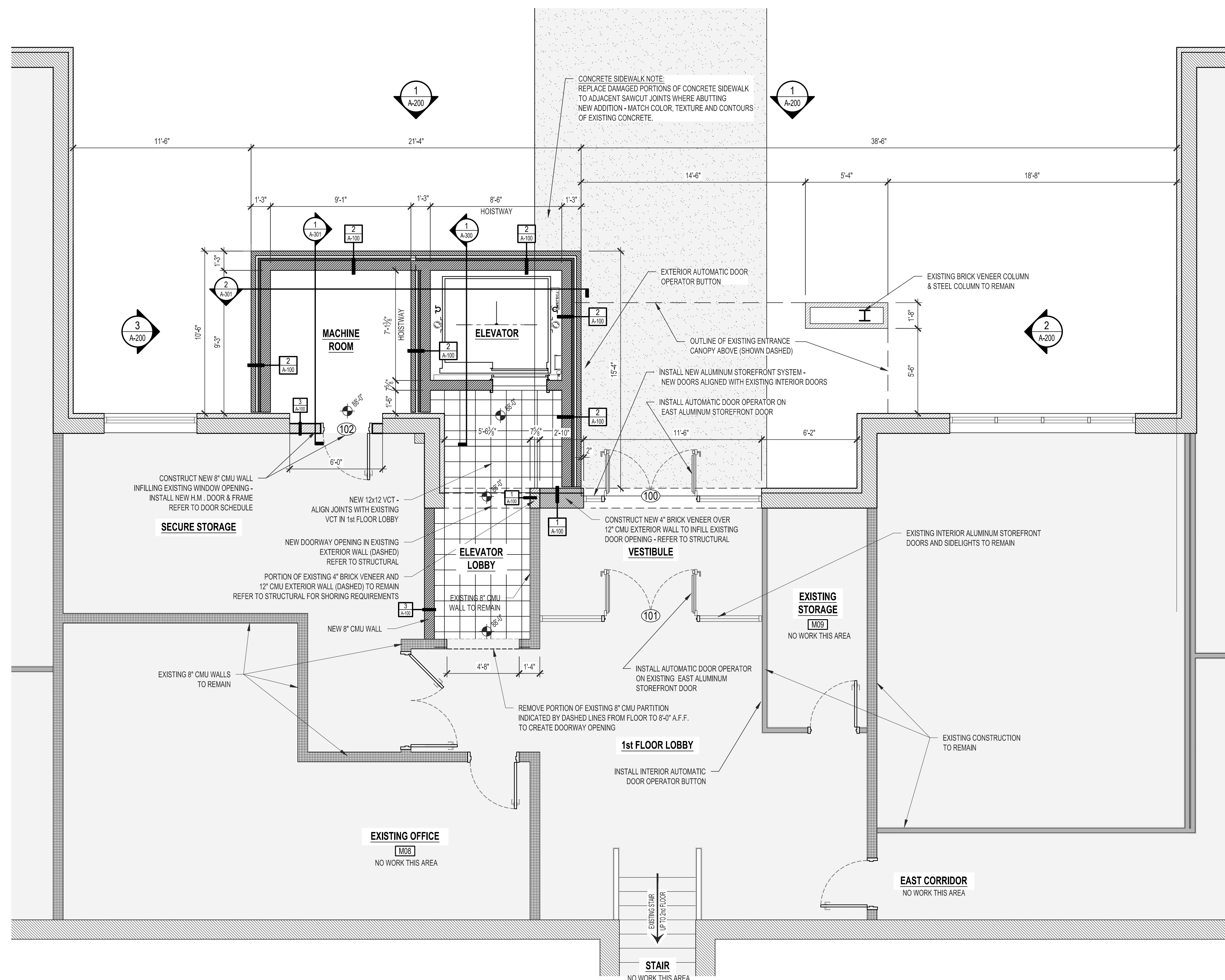
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**1st FLOOR PLAN -
ADDITION &
ALTERATIONS**

SHEET NUMBER:
A-100
SHEET 5 OF 29
ISSUE DATE: 12/22/2023



WALL TYPES



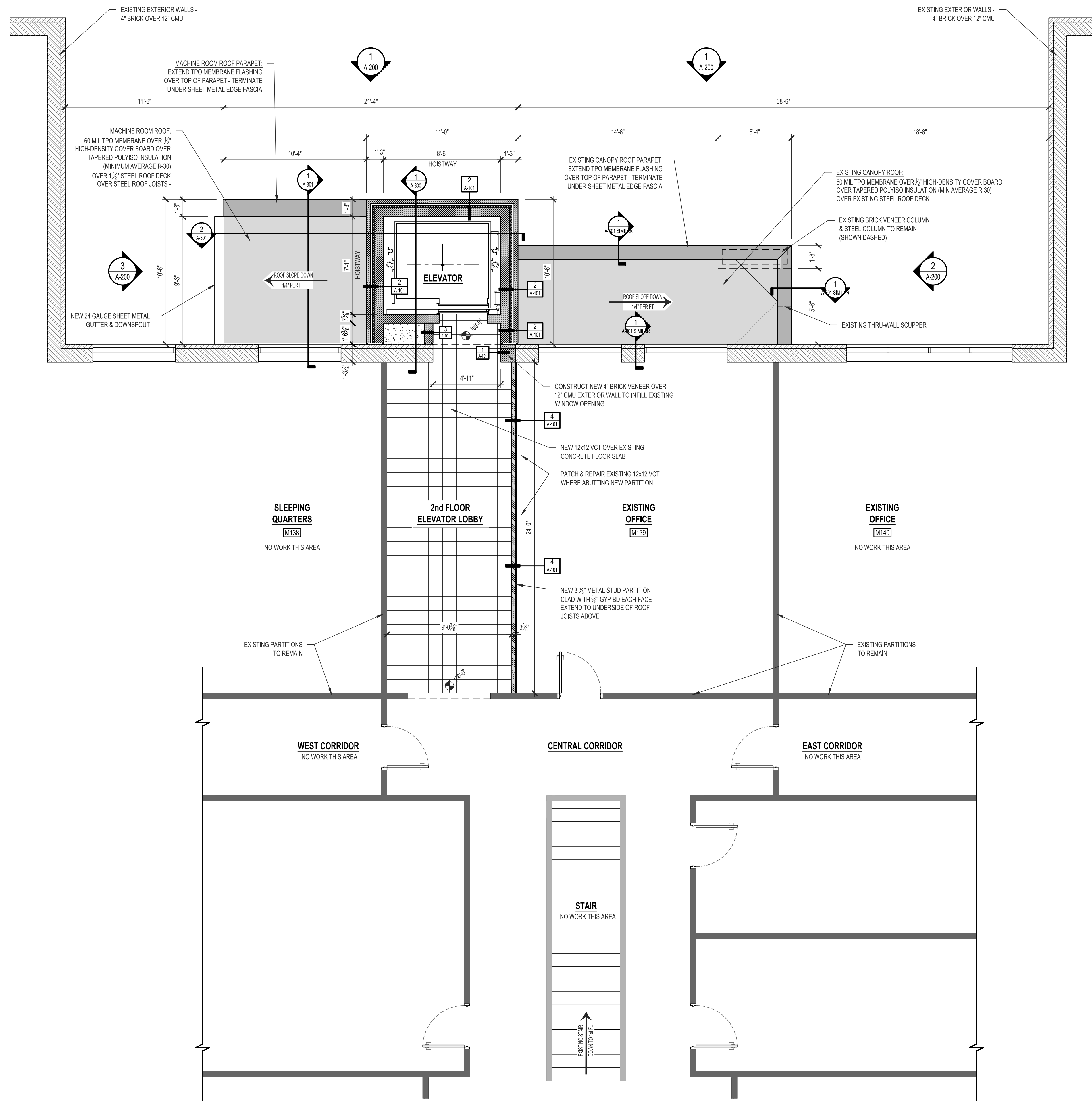
BENCHMARK ELEVATIONS: TOP OF 1st FLOOR SLAB = 88'-0"
TOP OF 2nd FLOOR SLAB = 100'-0"



1
A-100

1st FLOOR PLAN - ADDITION & ALTERATIONS

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



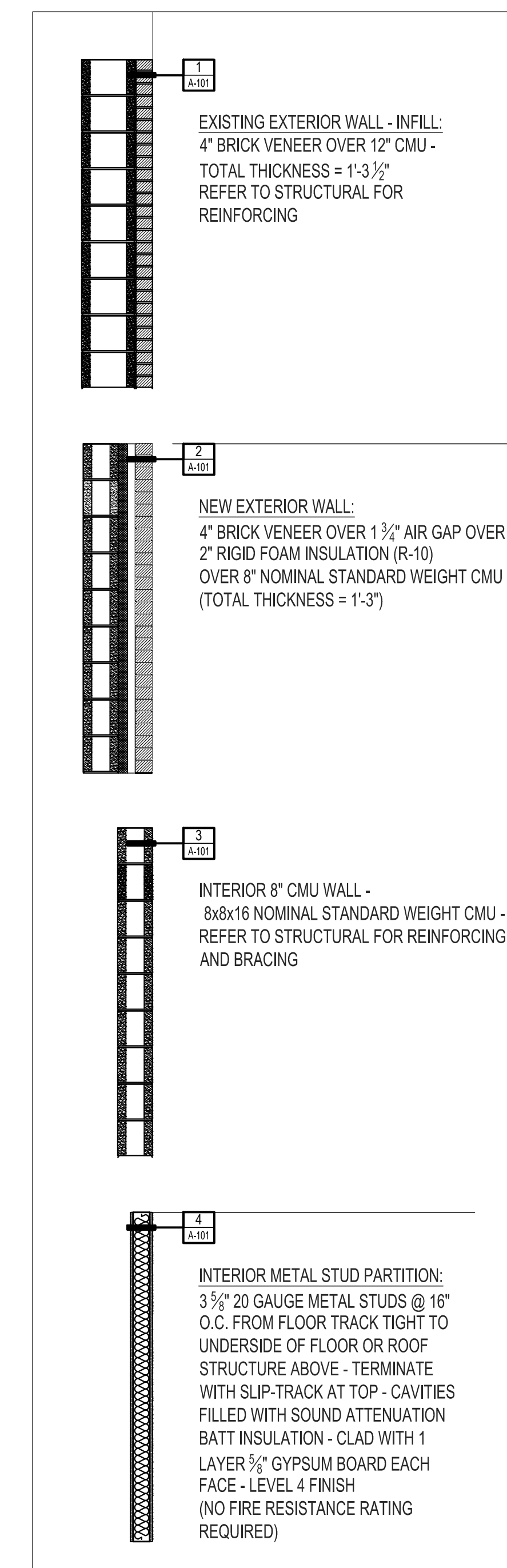
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TOP OF 2nd FLOOR SLAB = 100'-0"



1
A-101

2nd FLOOR PLAN - ADDITION & ALTERATIONS

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



WALL TYPES



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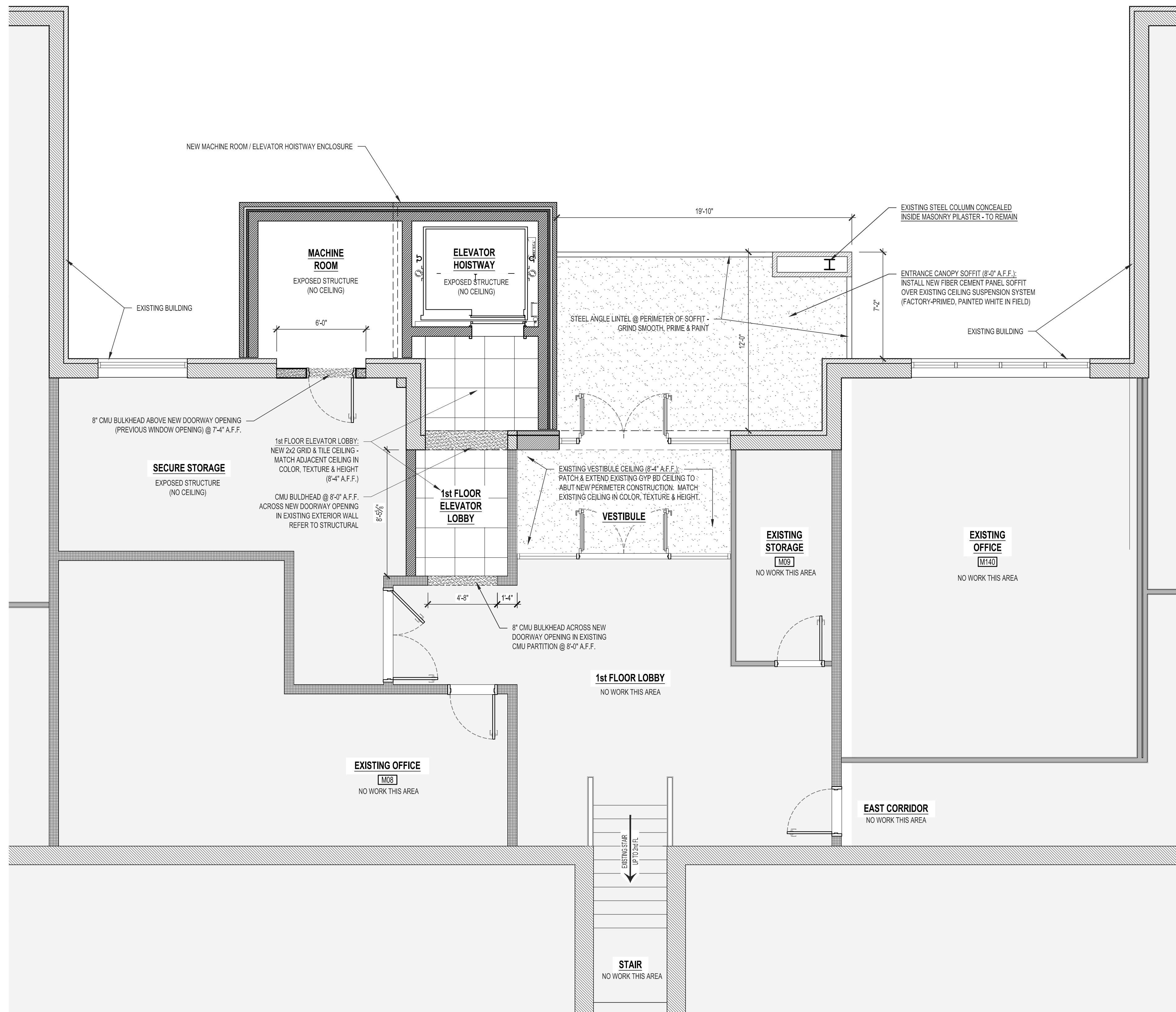
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DATE: _____
ISSUE DATE: 12/22/2023

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**2nd FLOOR PLAN -
ADDITION &
ALTERATIONS**

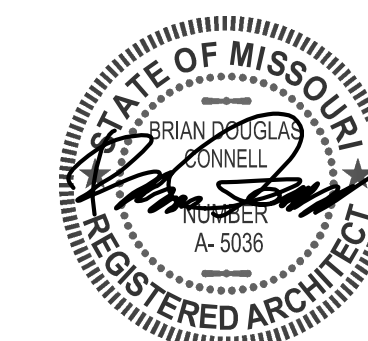
SHEET NUMBER:
A-101
SHEET 6 OF 29
ISSUE DATE: 12/22/2023



1
A-102

1st FLOOR REFLECTED CEILING PLAN

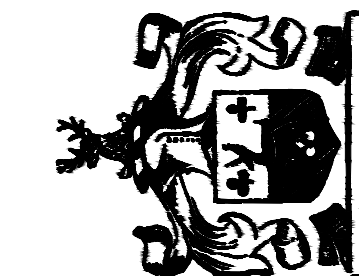
SCALE: 1/4" = 1'-0"



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DATE: _____

ISSUE DATE: 12/22/2023

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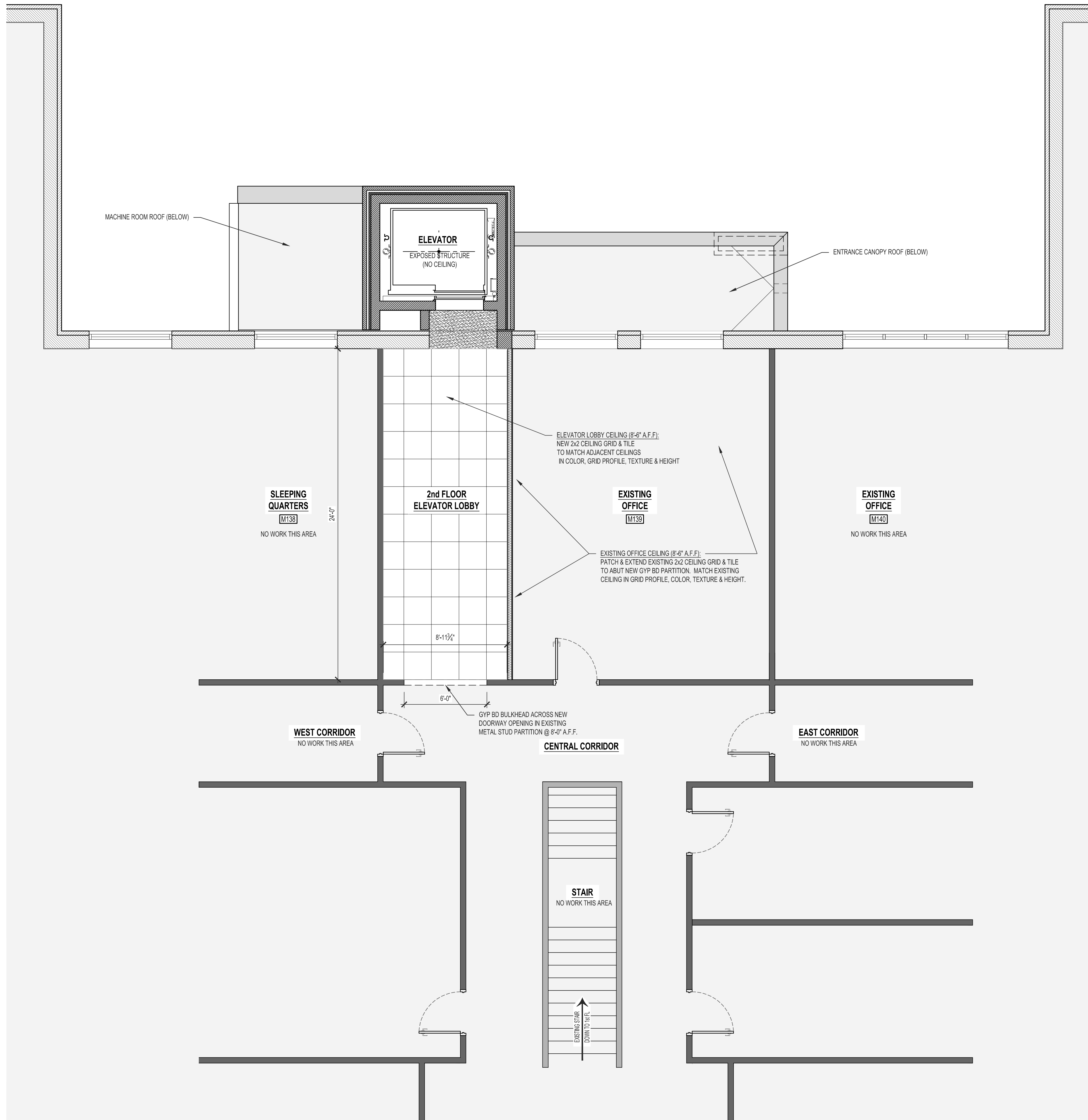
1st FLOOR -
REFLECTED
CEILING PLAN

SHEET NUMBER:

A-102

SHEET 7 OF 29

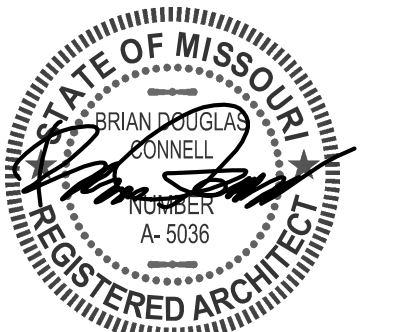
ISSUE DATE: 12/22/2023



1
A-103

2nd FLOOR REFLECTED CEILING PLAN

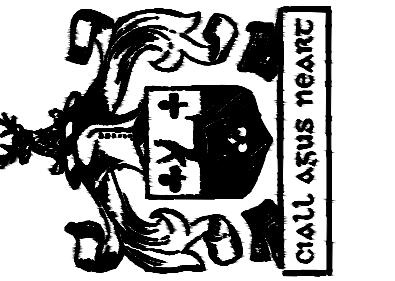
SCALE: 1/4" = 1'-0"



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DESIGNED BY: BDC

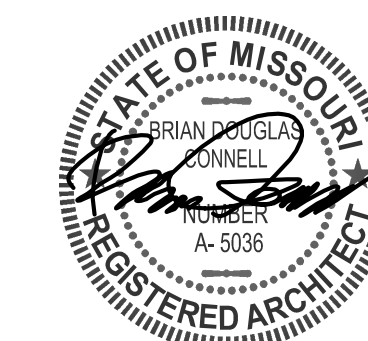
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**2nd FLOOR -
REFLECTED
CEILING PLAN**

SHEET NUMBER:

A-103

SHEET 8 OF 29

ISSUE DATE: 12/22/2023



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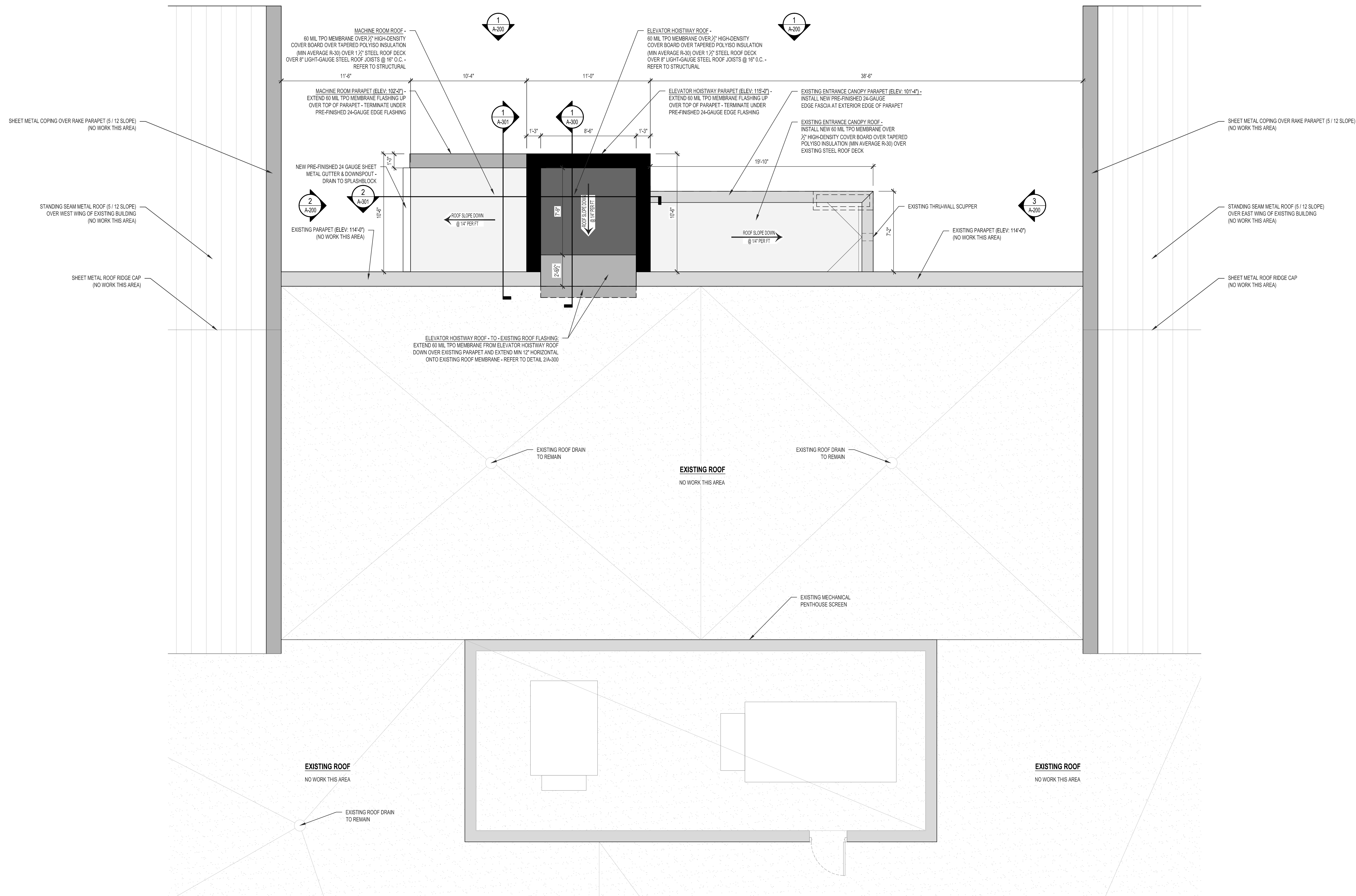
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DESIGNED BY: BDC

SHEET TITLE:
**ROOF PLAN -
ADDITION &
ALTERATIONS**

SHEET NUMBER:

A-104

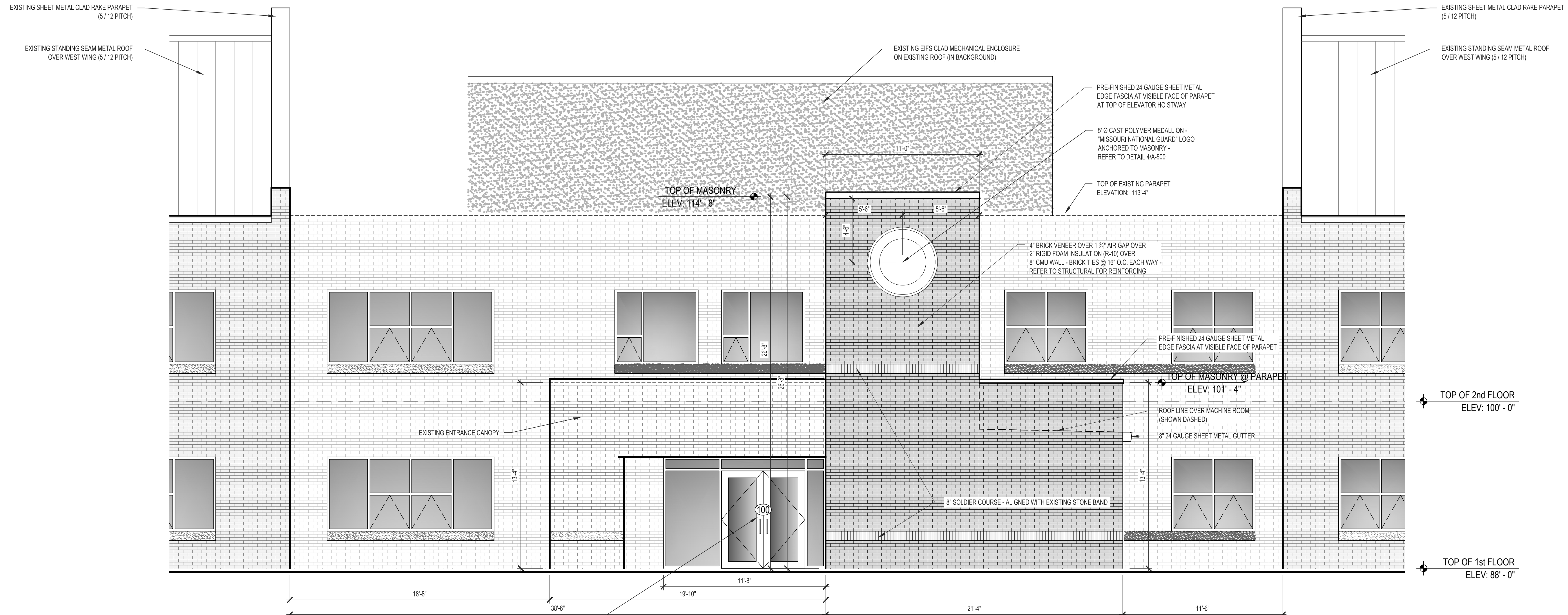
SHEET 9 OF 29
ISSUE DATE: 12/22/2023



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A-104

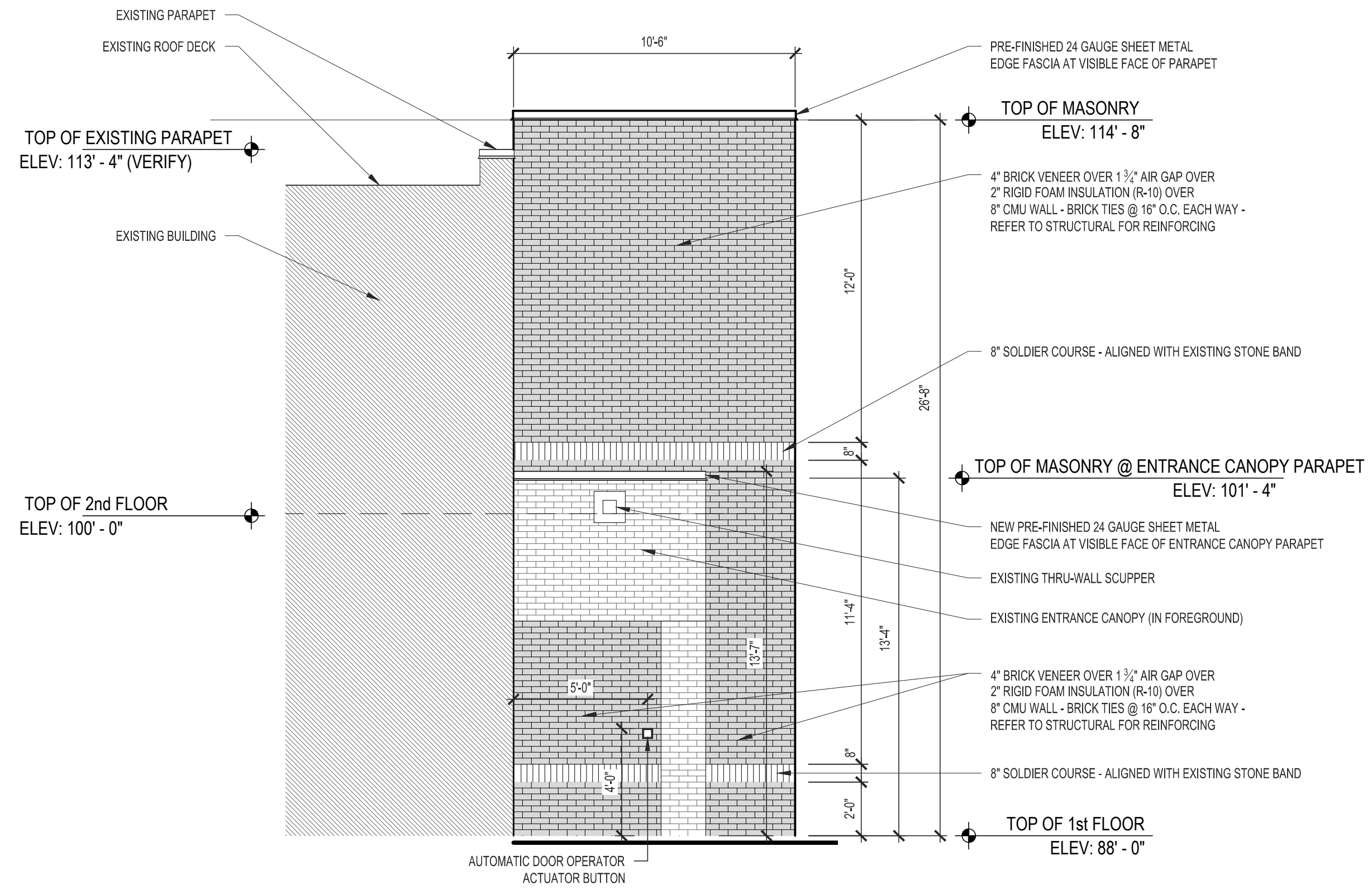
ROOF PLAN - ADDITION & ALTERATIONS

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

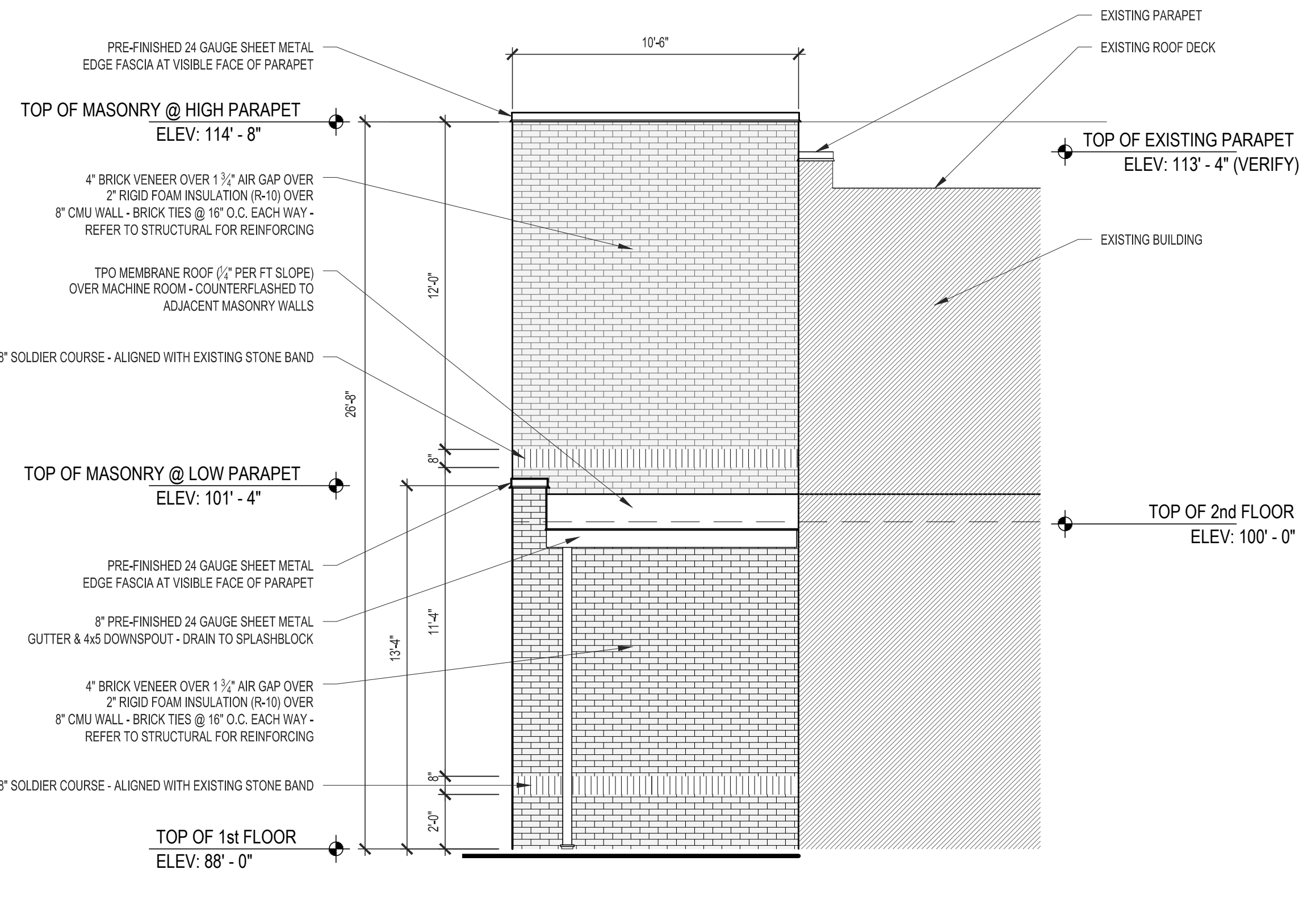


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A-200
NORTH (FRONT) ELEVATION
SCALE: 1/4" = 1'-0"

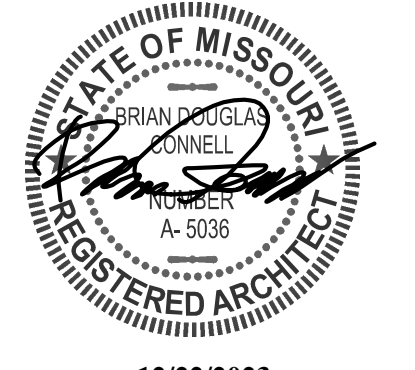
NEW EXTERIOR ALUMINUM STOREFRONT DOORS & SIDELIGHTS TO FIT REDUCED OPENING WIDTH -
INSTALL AUTOMATIC DOOR OPERATOR ON EAST DOOR LEAF OF EXTERIOR & INTERIOR STOREFRONT SYSTEMS.
INSTALL BUTTON ACTUATORS AS SHOWN ON FLOOR PLANS



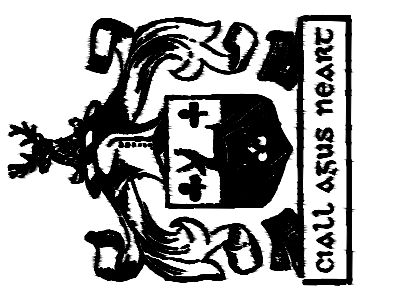
2
A-200
EAST (SIDE) ELEVATION
SCALE: 1/4" = 1'-0"



3
A-200
WEST (SIDE) ELEVATION
SCALE: 1/4" = 1'-0"



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OFFICE OF
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MANAGEMENT, DESIGN
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MISSOURI
NATIONAL GUARD

DESIGN & CONSTRUCT
ELEVATOR & ASSEMBLY

MILITARY EDUCATION BLDG

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2302 MILITIA DRIVE
JEFFERSON CITY, MO 65101

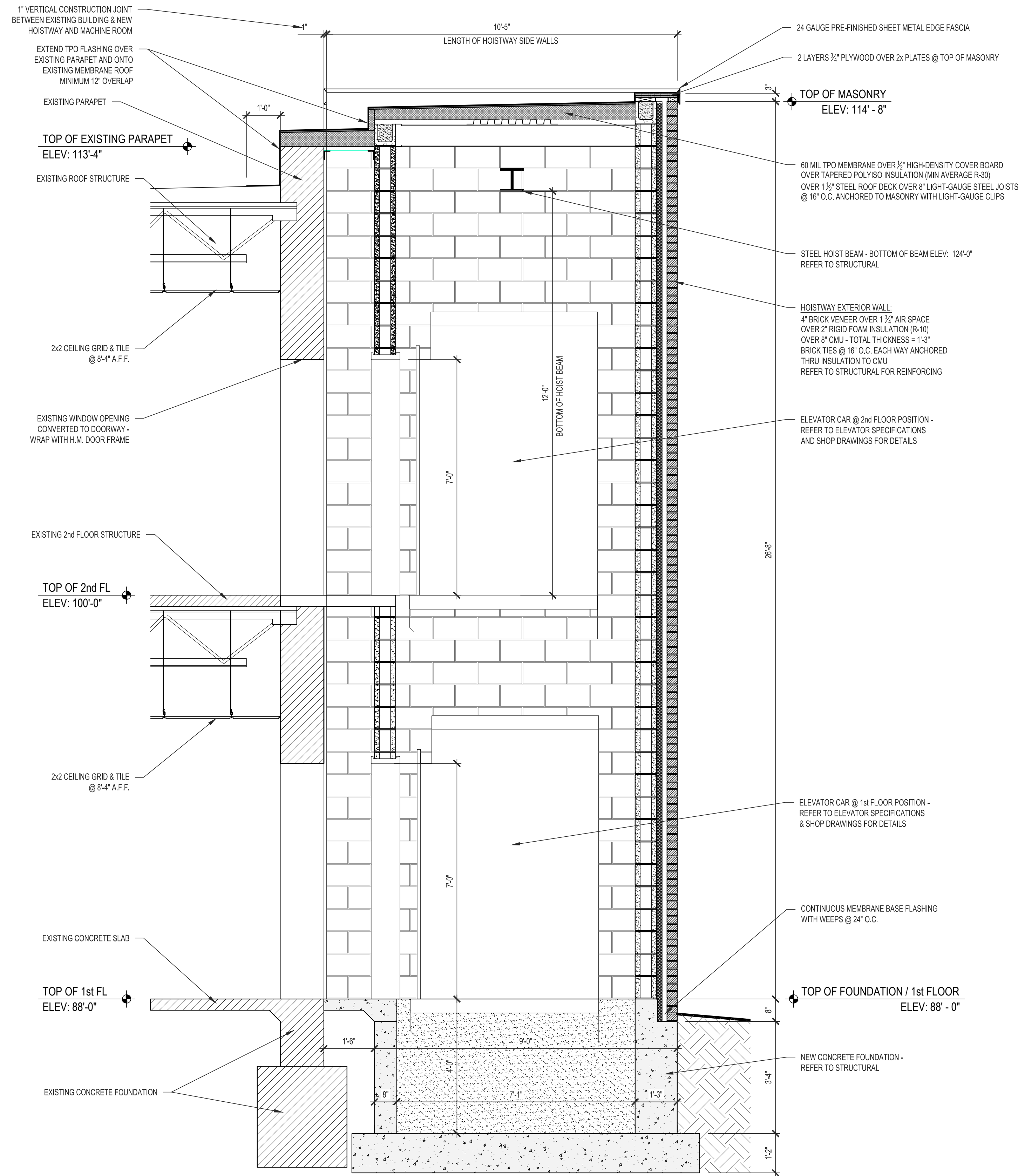
PROJECT No. T2211-01
SITE No. 6300
ASSET No. 8136300012

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 12/22/2023

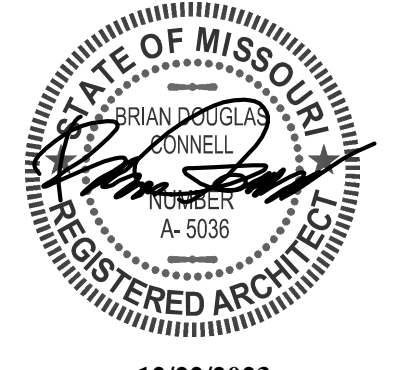
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T2211-01-6300-8136300012-A-200
DRAWN BY: BDC
CHECKED BY: BDC
DESIGNED BY: BDC

SHEET TITLE:
**EXTERIOR
ELEVATIONS**

SHEET NUMBER:
A-200
SHEET 10 OF 29
ISSUE DATE: 12/22/2023



1 SECTION - ELEVATOR HOISTWAY
SCALE: 1/2" = 1'-0"



12/22/2023
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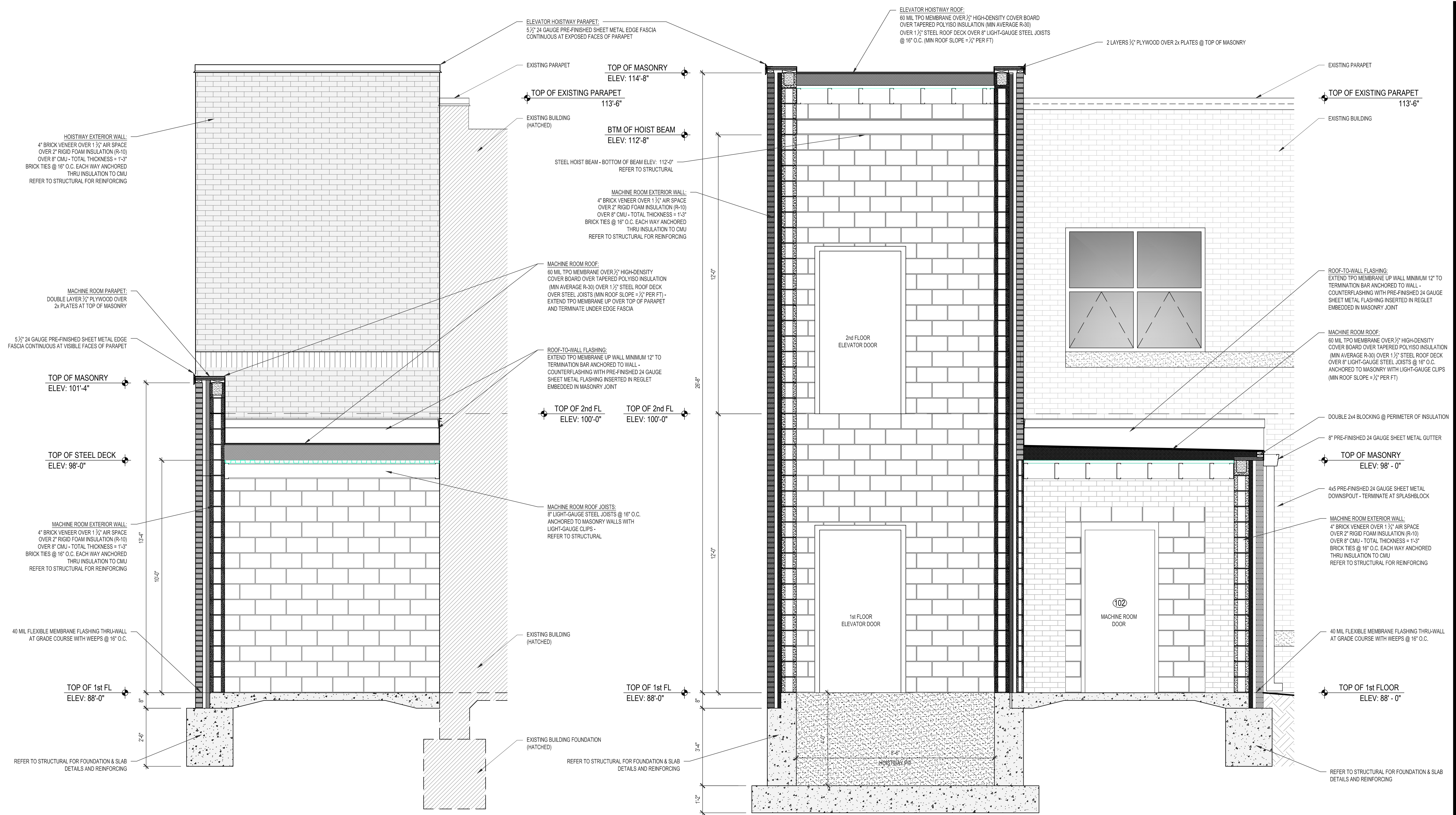
PROJECT No. T2211-01
SITE No. 6300
ASSET No. 8136300012

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 12/22/2023

CAD DWG FILE:
T2211-01-6300-8136300012-A-300
DRAWN BY: BDC
CHECKED BY: BDC
DESIGNED BY: BDC

SHEET TITLE:
**ELEVATOR
HOISTWAY
SECTION**

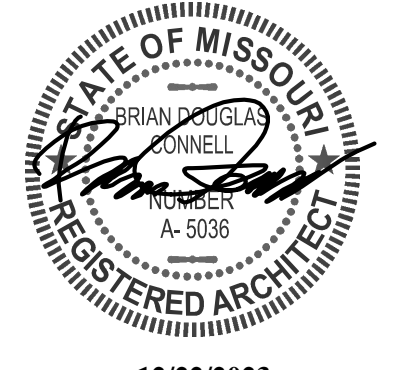
SHEET NUMBER:
A-300
SHEET 11 OF 29
ISSUE DATE: 12/22/2023



1 SECTION - MACHINE ROOM
SCALE: 1/2" = 1'-0"

2 SECTION - ELEVATOR HOISTWAY & MACHINE ROOM
SCALE: 1/2" = 1'-0"

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



12/22/2023
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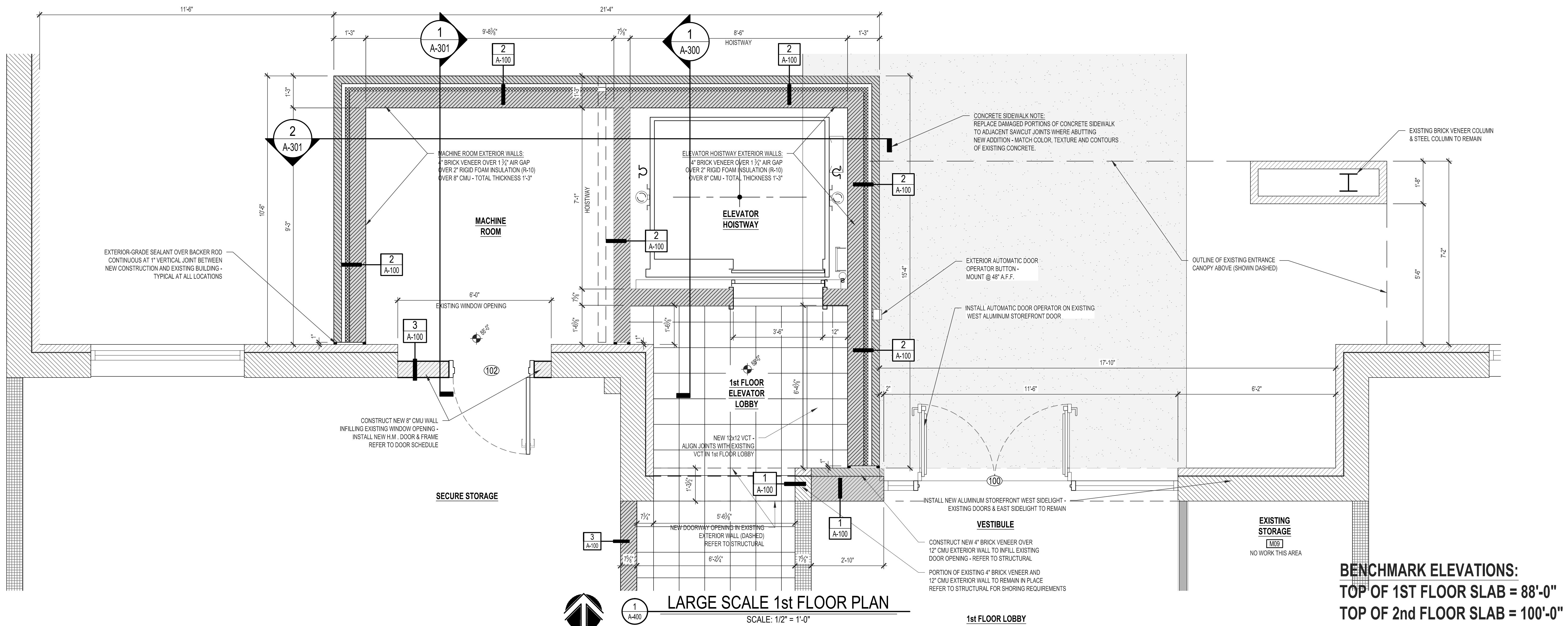
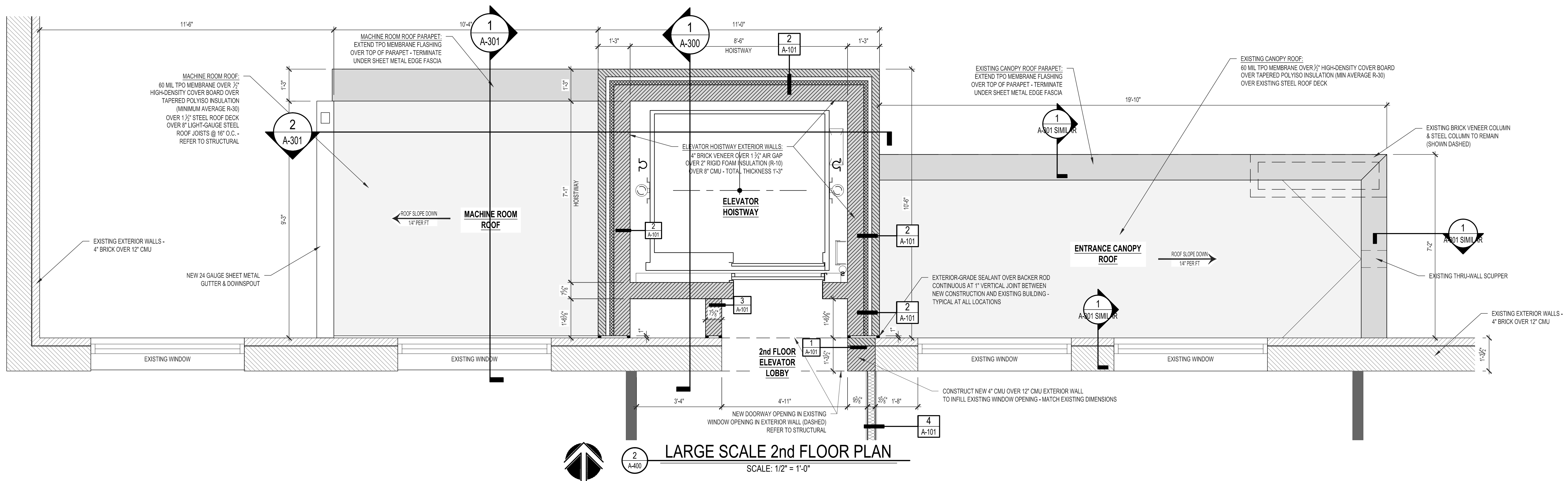
PROJECT No. T2211-01
SITE No. 6300
ASSET No. 8136300012

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DATE:
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ISSUE DATE: 12/22/2023

CAD DWG FILE:
T2211-01-6300-8136300012-A-301
DRAWN BY: BDC
CHECKED BY: BDC
DESIGNED BY: BDC

SHEET TITLE:
ELEVATOR
HOISTWAY &
MACHINE ROOM
SECTIONS

SHEET NUMBER:
A-301
SHEET 12 OF 29
ISSUE DATE: 12/22/2023



BENCHMARK ELEVATIONS:
TOP OF 1st FLOOR SLAB = 88'-0"
TOP OF 2nd FLOOR SLAB = 100'-0"



12/22/2023
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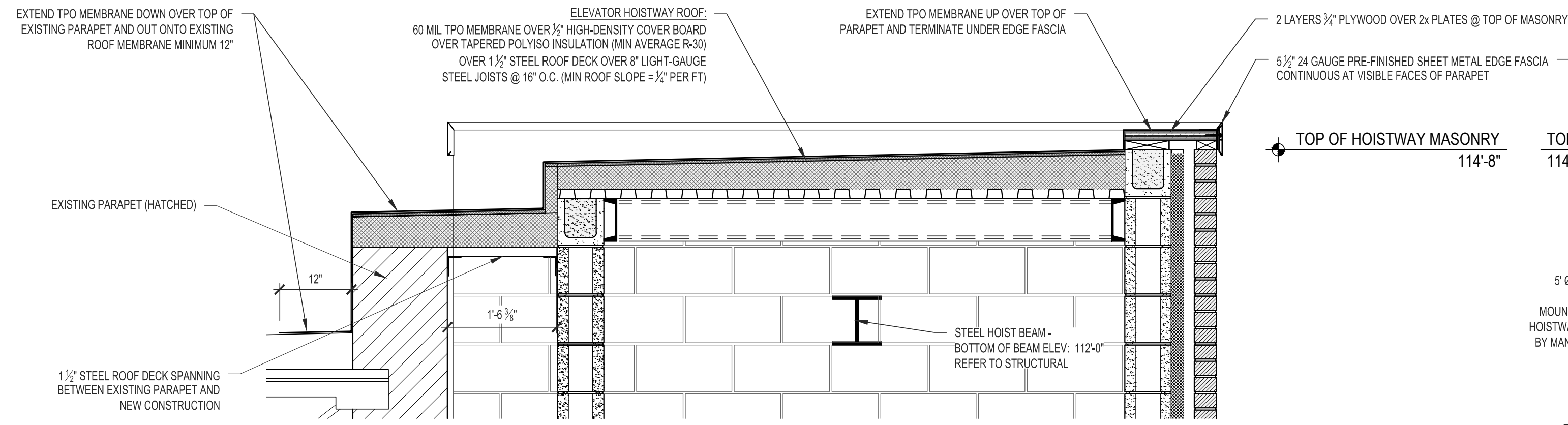
PROJECT No. T2211-01
SITE No. 6300
ASSET No. 8136300012

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DATE:
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DATE:
ISSUE DATE: 12/22/2023

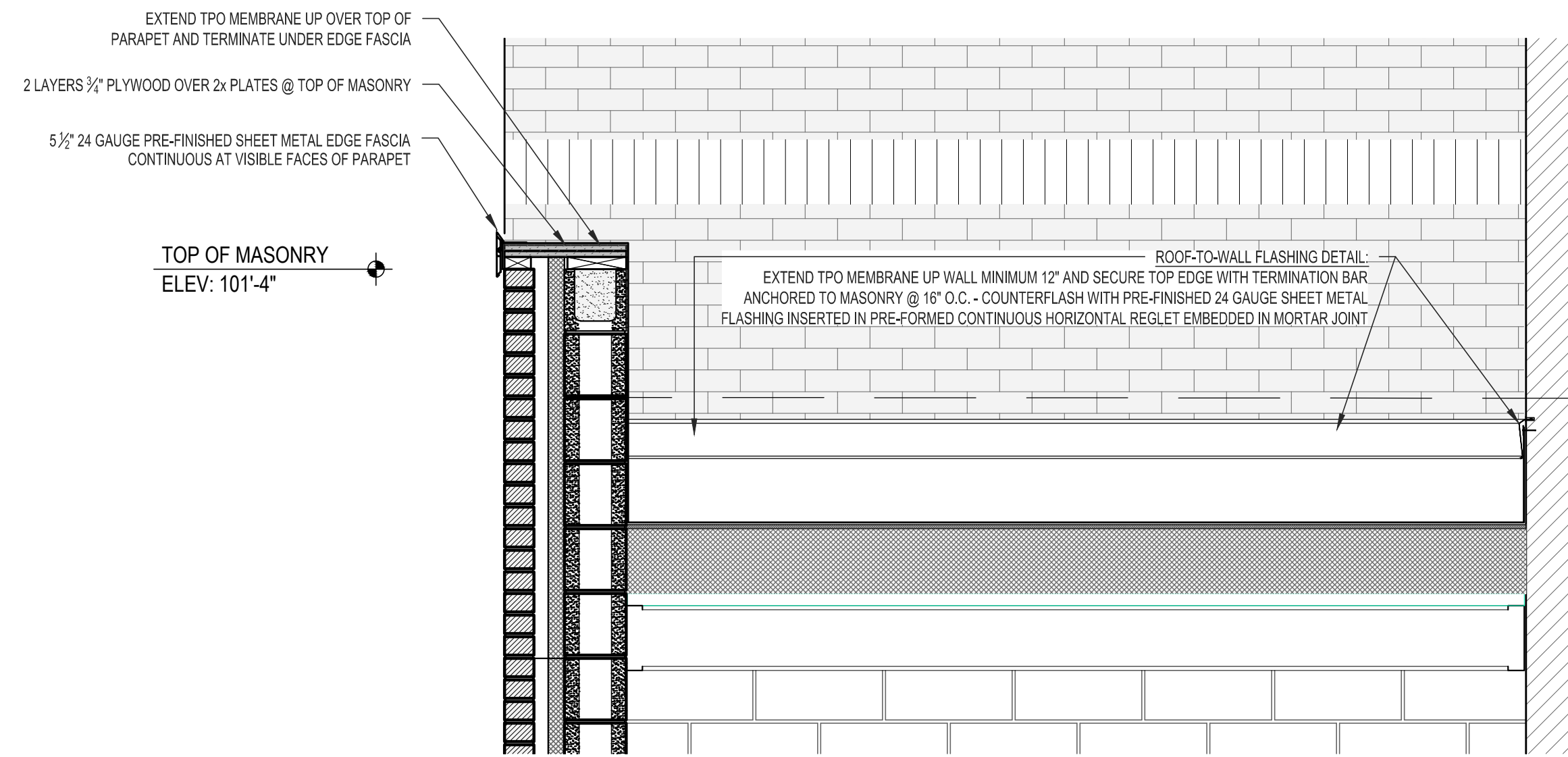
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T2211-01-6300-8136300012-A-400
DRAWN BY: BDC
CHECKED BY: BDC
DESIGNED BY: BDC

SHEET TITLE:
**LARGE SCALE
1st & 2nd
FLOOR PLANS**

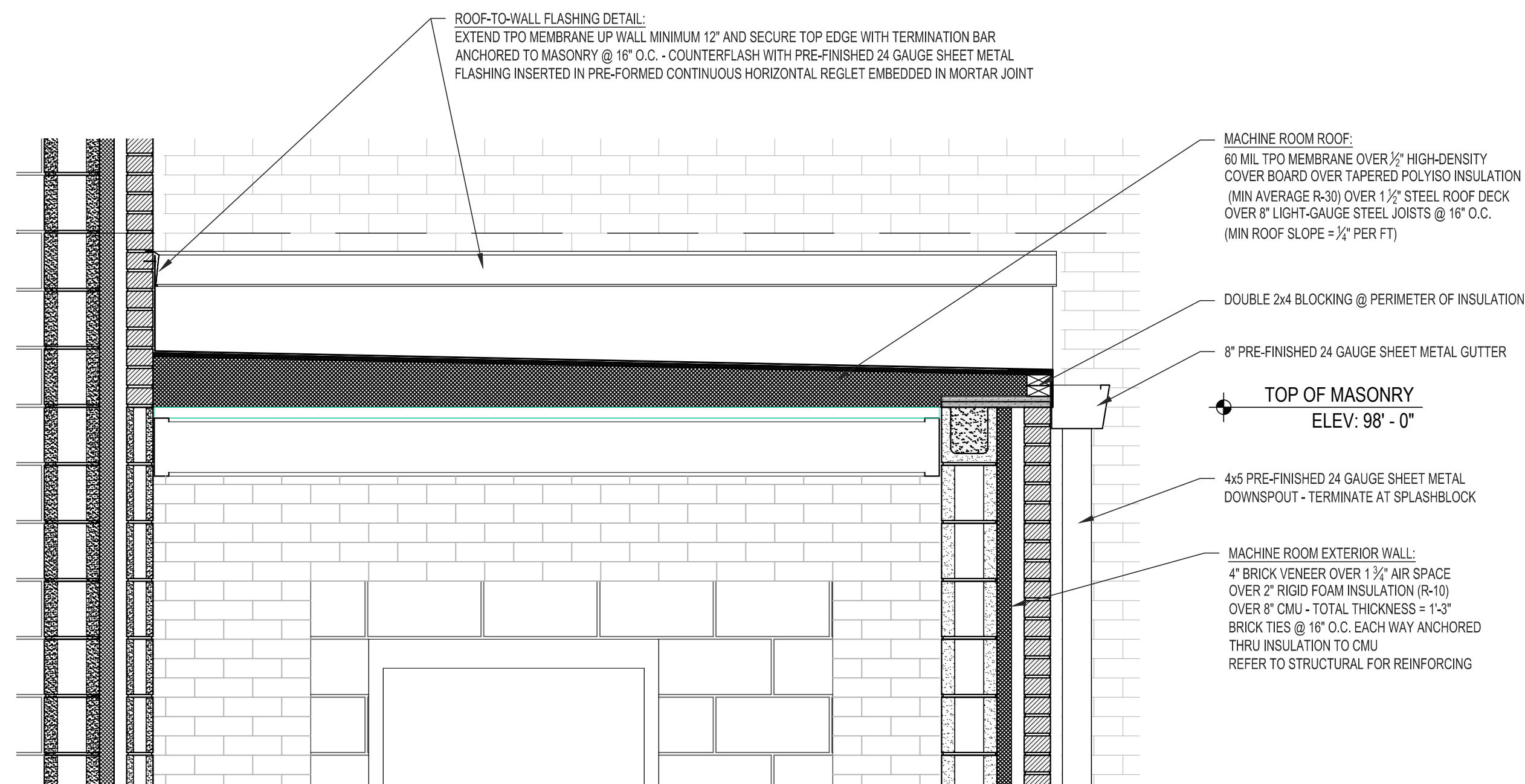
SHEET NUMBER:
A-400
SHEET 13 OF 29
ISSUE DATE: 12/22/2023



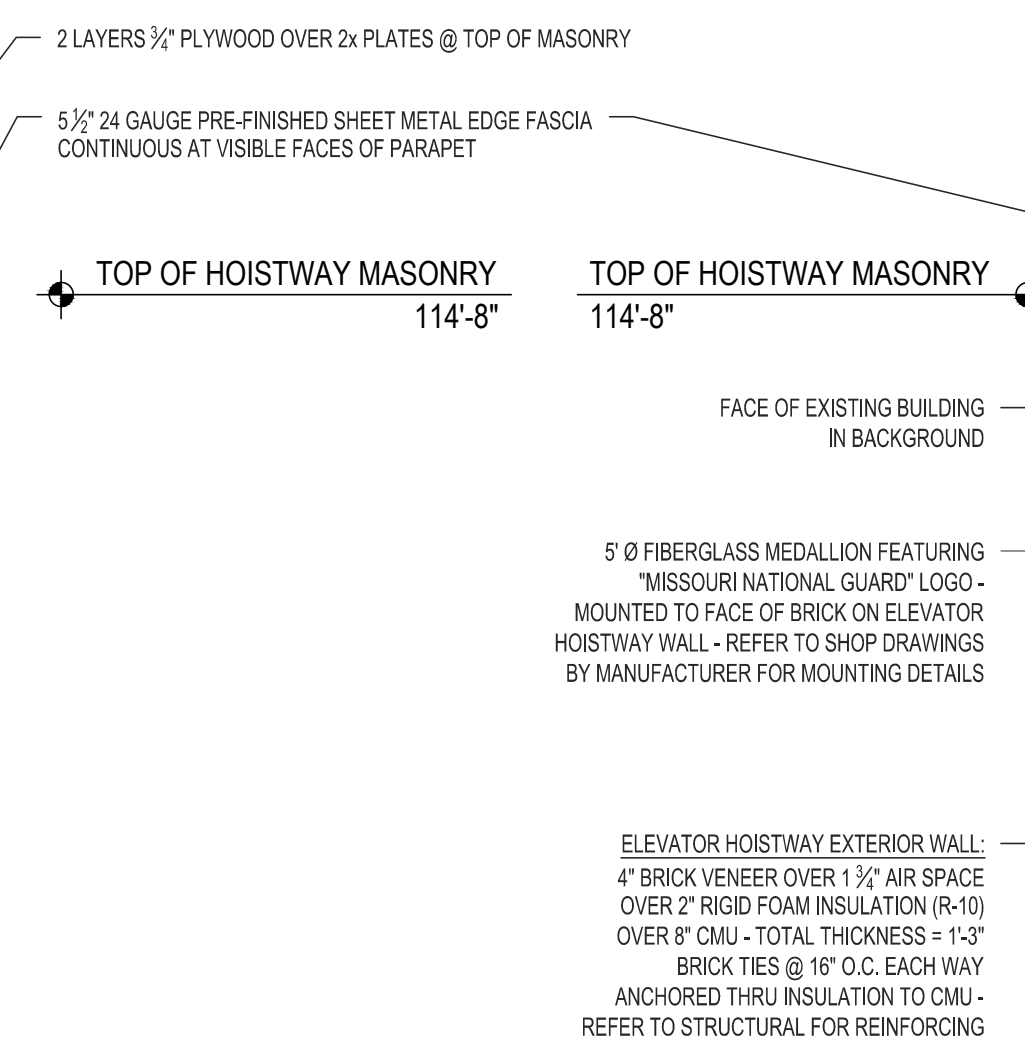
1 SECTION - ELEVATOR HOISTWAY ROOF
SCALE: 3/4" = 1'-0"



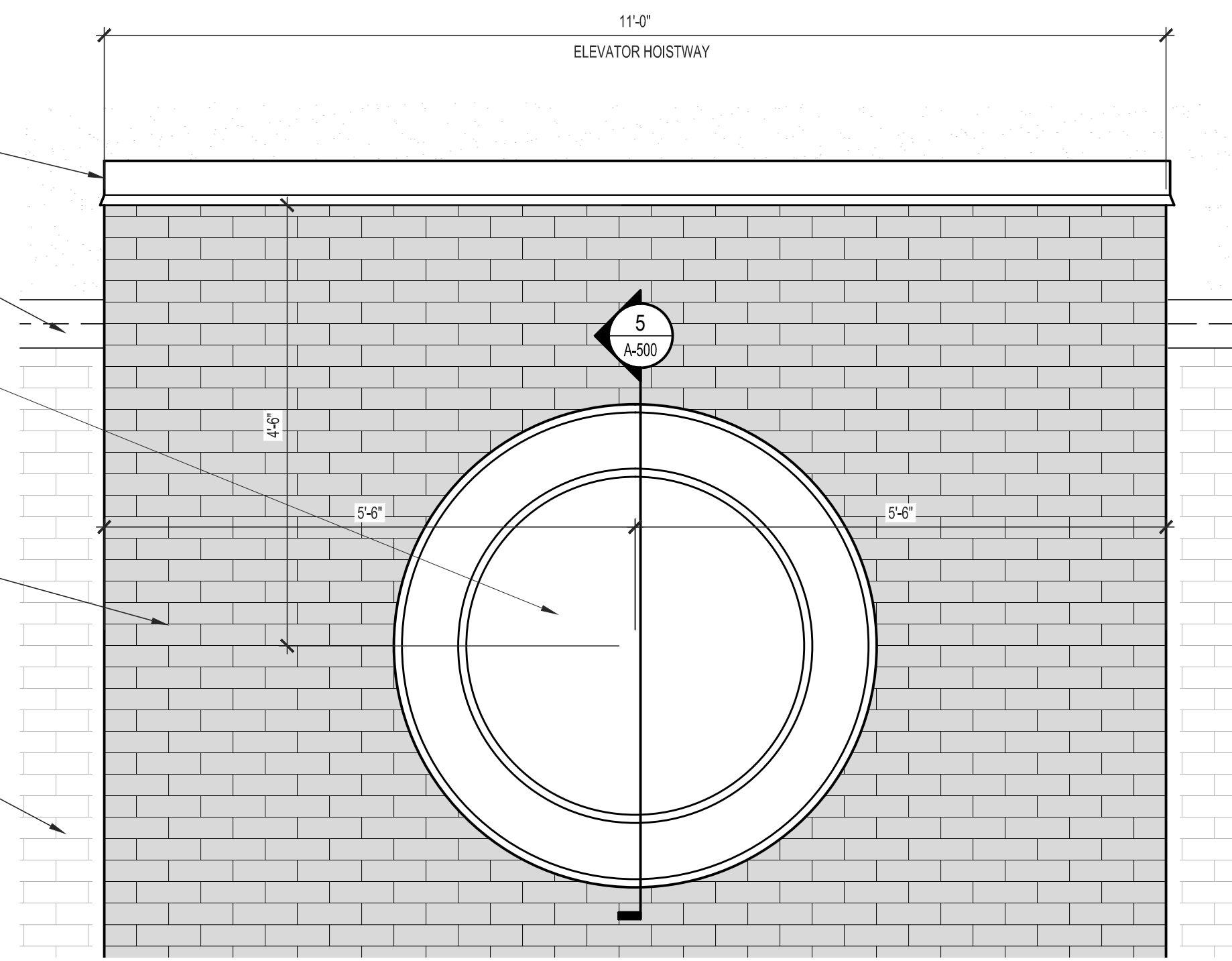
2 SECTION - MACHINE ROOM ROOF
SCALE: 3/4" = 1'-0"



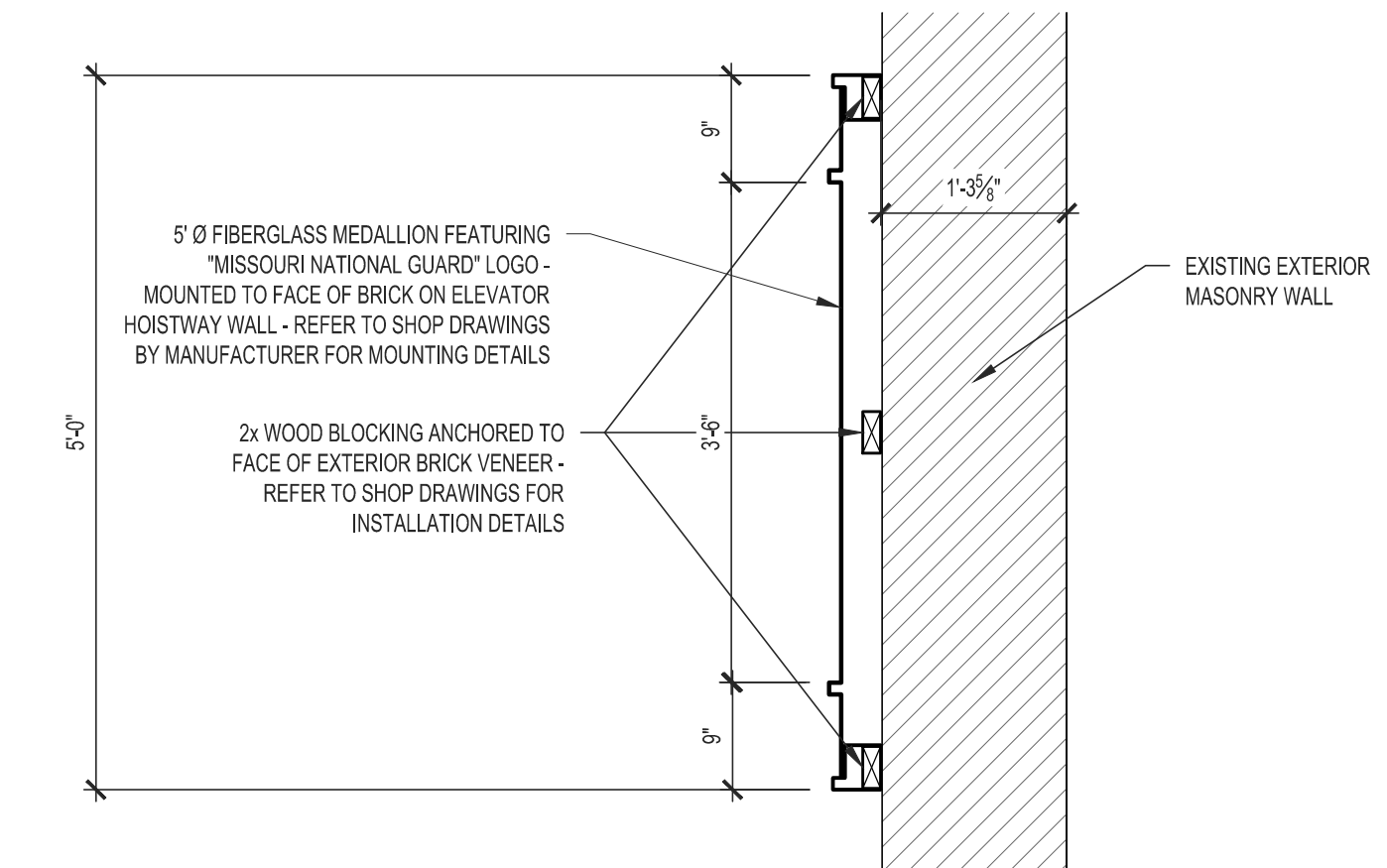
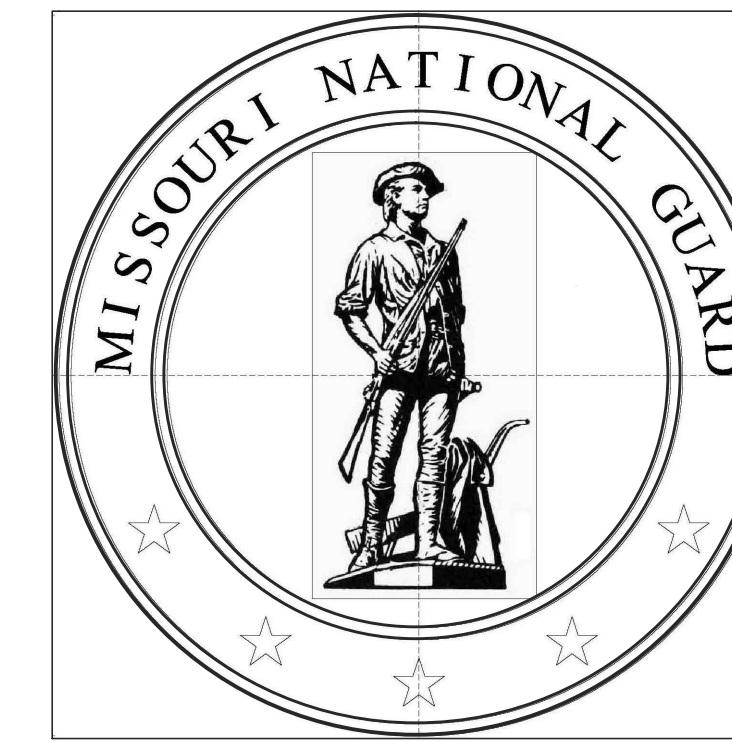
3 SECTION - MACHINE ROOM ROOF
SCALE: 3/4" = 1'-0"



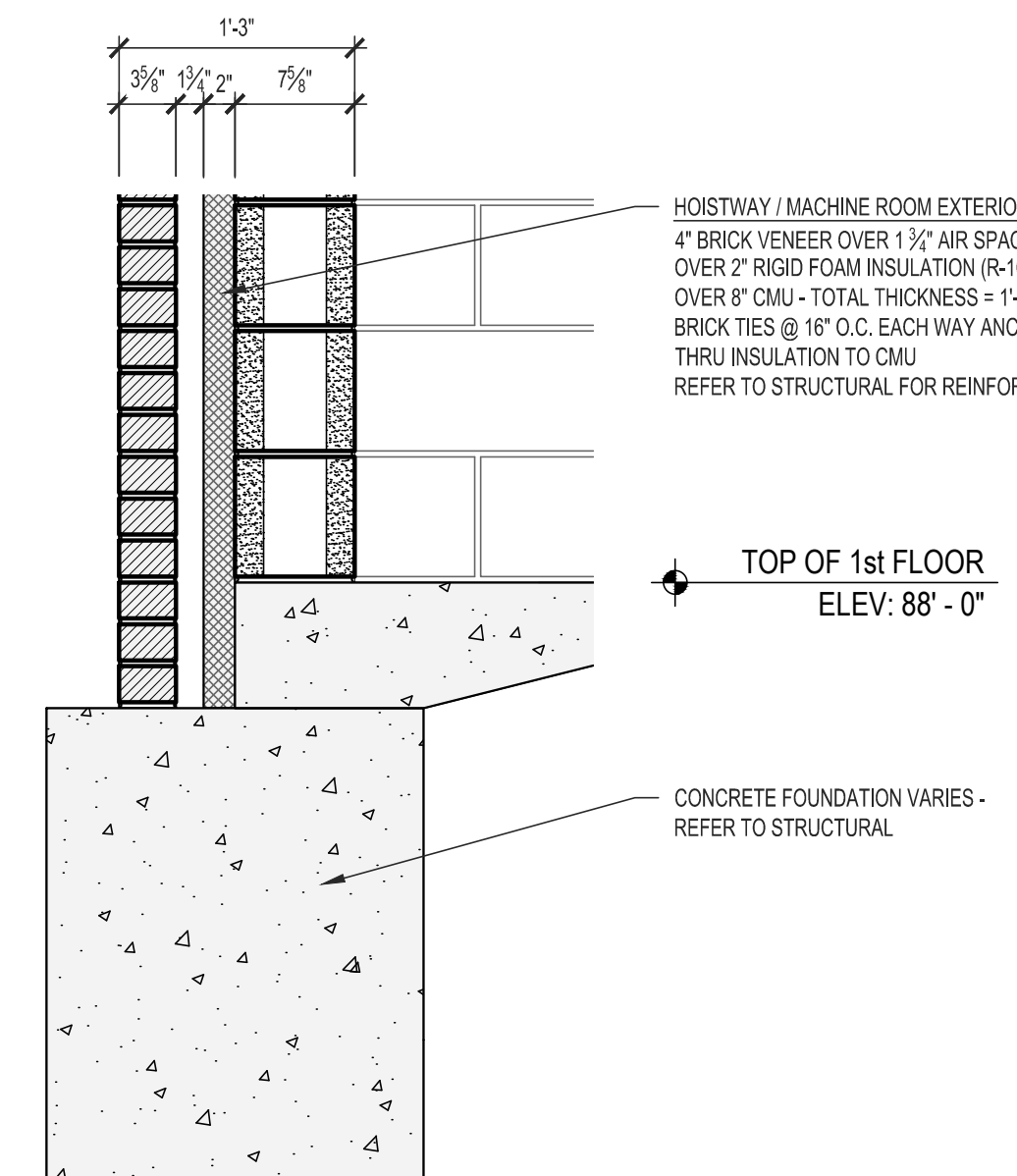
ELEVATOR HOISTWAY EXTERIOR WALL:
4" BRICK VENEER OVER 1 1/2" AIR SPACE
OVER 2" RIGID FOAM INSULATION (R-10)
OVER 8" CMU - TOTAL THICKNESS = 1-3"
BRICK TIES @ 16" O.C. EACH WAY
ANCHORED THRU INSULATION TO CMU -
REFER TO STRUCTURAL FOR REINFORCING



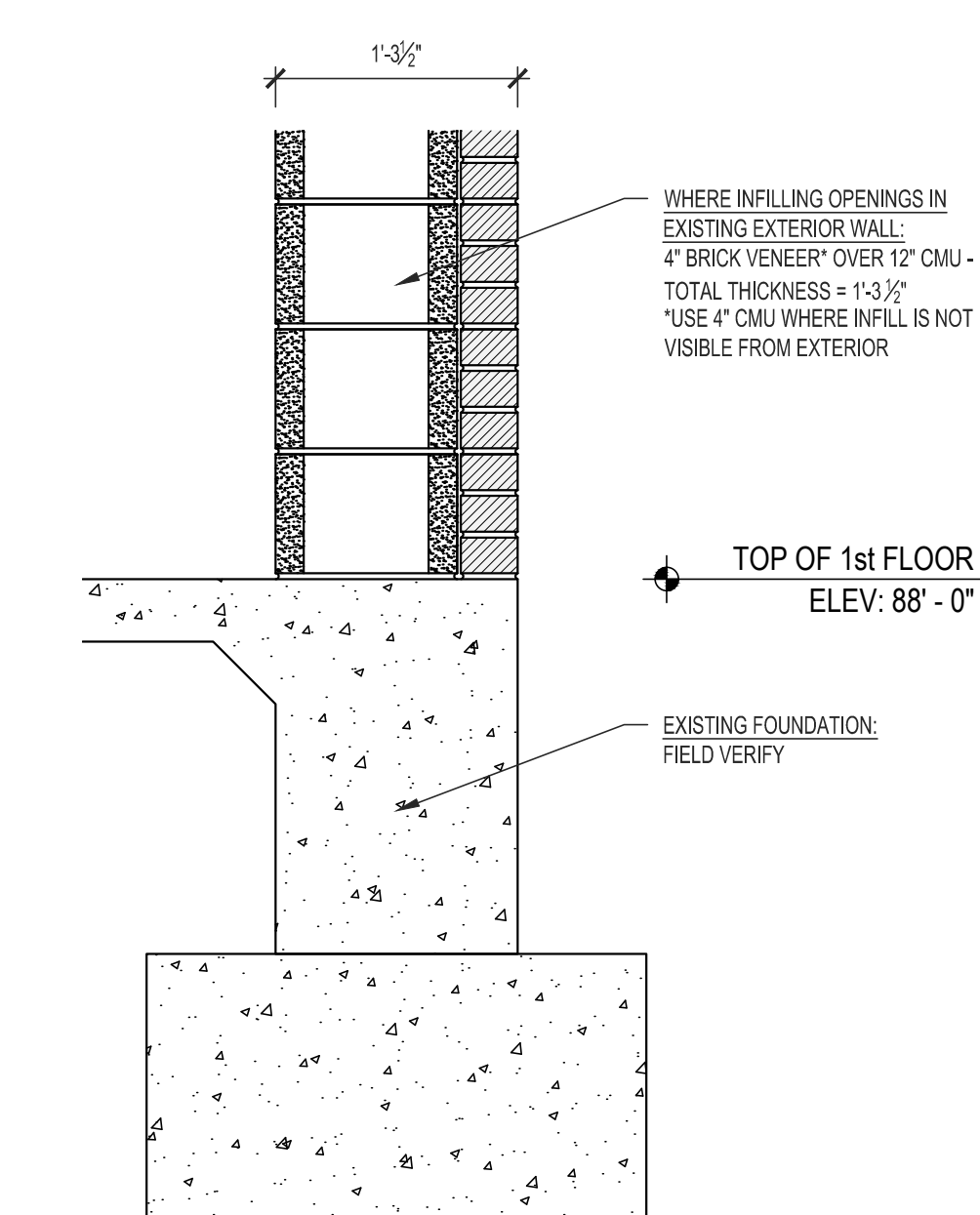
4 MISSOURI NATIONAL GUARD MEDALLION ELEVATION
SCALE: 3/4" = 1'-0"



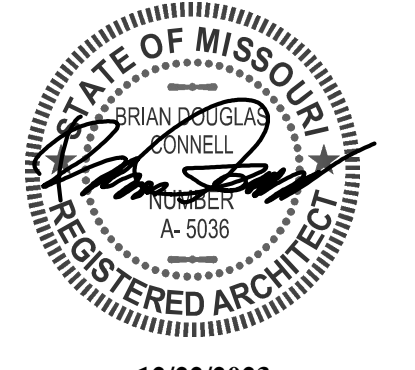
5 MISSOURI NATIONAL GUARD MEDALLION SECTION
SCALE: 3/4" = 1'-0"



6 NEW EXTERIOR WALL DETAIL
SCALE: 1" = 1'-0"



7 EXISTING EXTERIOR WALL DETAIL
SCALE: 1" = 1'-0"



12/22/2023
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IKE SKELTON TRAINING SITE
2302 MILITIA DRIVE
JEFFERSON CITY, MO 65101

PROJECT No. T2211-01
SITE No. 6300
ASSET No. 8136300012

REVISION:
DATE:
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DATE:
REVISION:
DATE:
ISSUE DATE: 12/22/2023

CAD DWG FILE:
T2211-01-6300-8136300012-A-500
DRAWN BY: BDC
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DESIGNED BY: BDC

SHEET TITLE:

DETAILS

SHEET NUMBER:

A-500

SHEET 14 OF 29
ISSUE DATE: 12/22/2023

DOOR, FRAME & HARDWARE SCHEDULE - T2211-01 DESIGN & CONSTRUCT ELEVATOR

DOOR NUMBER	DOOR TYPE	DOOR						FRAME				HARDWARE GROUP	GLAZING	REMARKS
		DOOR WIDTH (INCHES)	DOOR HEIGHT (INCHES)	DOOR THICKNESS (INCHES)	MATERIAL	FINISH	ACTION	FRAME TYPE	MATERIAL	FINISH	JAMB DEPTH (INCHES)			
1st FLOOR														
100	1	2-36"	84"	2"	SF	ANOD	PAIR	1	SF	ANOD	4 1/2"	7 & 9	GL-5	NEW STOREFRONT
101	1	2-36"	84"	2"	SF	ANOD	PAIR	1	SF	ANOD	4 1/2"	EXISTING		EXISTING TO REMAIN
102	2	36"	84"	1 3/4"	HM-18	PRE	RHR	2	WF-18	PRIME	7 3/4"	5	NONE	
2nd FLOOR - NO NEW DOORS ON 2nd FLOOR														

ABBREVIATIONS

GENERAL:

EXIST: EXISTING TO REMAIN
 FV: FIELD VERIFY

DOOR ACTION:

LH: LEFT HAND LHR: LEFT HAND REVERSE OH: OVERHEAD DOOR DUAL: DUAL-ACTION DOORS
 RH: RIGHT HAND RHR: RIGHT HAND REVERSE COIL: COILING COUNTER DOOR
 PAIR: PAIR OF DOORS BI-FLD: BI-FOLDING DOORS SLIDE: SLIDING DOOR

DOOR MATERIAL:

SCW: SOLID CORE WOOD FLUSH DOOR - VENEER SPECIES & CUT SELECTED BY OWNER
 SF: ALUMINUM STOREFRONT ENTRANCE SYSTEM - 4-1/2" FRAME DEPTH (ENTRANCE DOORS: U-0.77, FIXED GLAZING: U-0.38)
 SG: TEMPERED SAFETY GLAZING
 HM-20: 20 GAUGE INSULATED HOLLOW METAL FLUSH DOOR (U-0.61)
 HM-18: 18 GAUGE INSULATED HOLLOW METAL FLUSH DOOR (U-0.61)
 HM-16: 16 GAUGE INSULATED HOLLOW METAL FLUSH DOOR (U-0.61)
 OH-26: 26 GAUGE STEEL SKIN, INSULATED CORE (U-0.31), GALVANIZED TRACKS & HARDWARE PROVIDED BY MANUFACTURER

FRAME MATERIAL:

WF-20: 20 GAUGE WELDED METAL FRAME
 WF-18: 18 GAUGE WELDED METAL FRAME
 WF-16: 16 GAUGE WELDED METAL FRAME
 WF-14: 14 GAUGE WELDED METAL FRAME
 KD-20: 20 GAUGE KNOCK-DOWN METAL FRAME
 KD-18: 18 GAUGE KNOCK-DOWN METAL FRAME
 KD-16: 16 GAUGE KNOCK-DOWN METAL FRAME
 KD-14: 14 GAUGE KNOCK-DOWN METAL FRAME
 SF: ALUMINUM STOREFRONT SYSTEM - 4 1/2" FRAME DEPTH (THERMALLY-IMPROVED)

FINISHES:

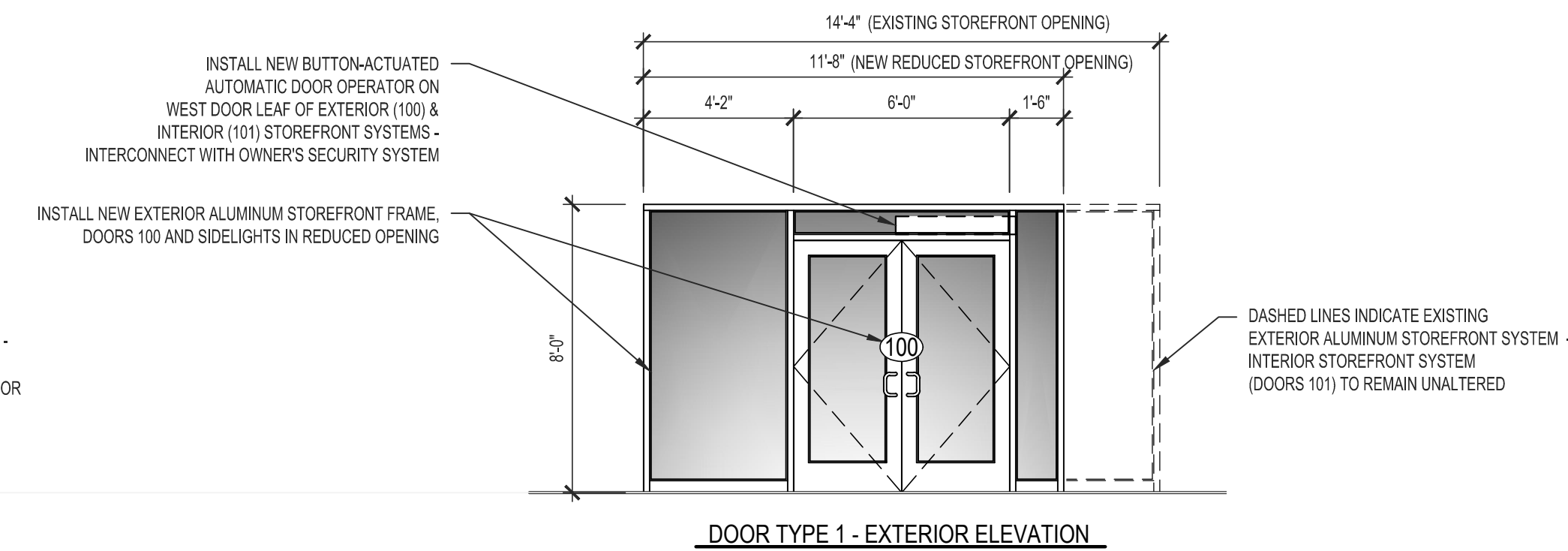
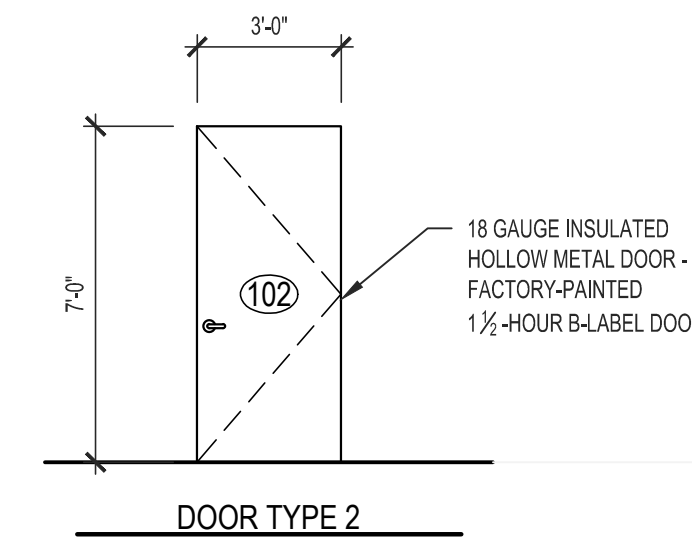
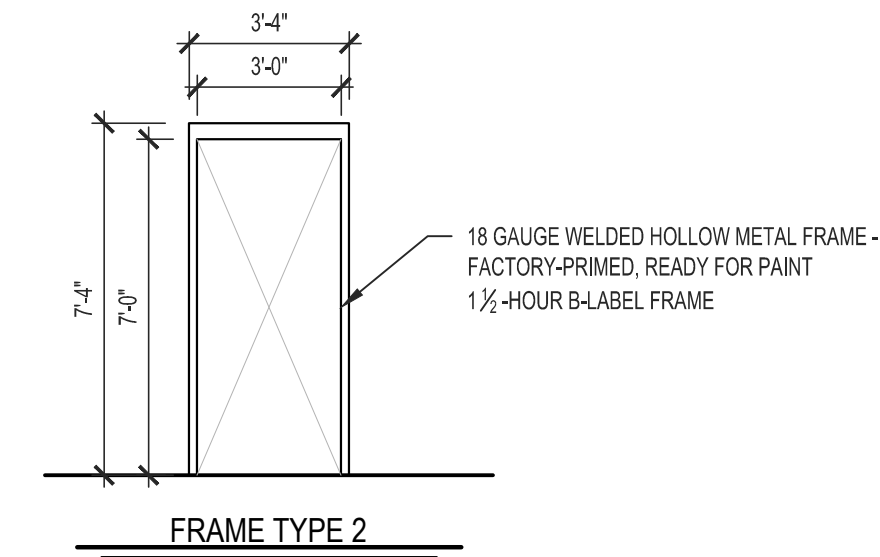
PRE: PREFINISHED BY MANUFACTURER, COLOR / STYLE SELECTED BY OWNER
 PRIME: FACTORY-PRIMED, READY TO RECEIVE FINISH COATING
 PAINT: PAINTED (SPECIFY MATERIAL, COLOR, FINISH, ETC.)
 STAIN: STAINED (SPECIFY MATERIAL, COLOR, FINISH, ETC.)
 ANOD: ANODIZED ALUMINUM (CLEAR, DARK BRONZE, BLACK, COLOR)

GLAZING TYPES:

GL-1: CLEAR MONOLITHIC GLASS
 GL-2: CLEAR MONOLITHIC GLASS - SAFETY GLAZING
 GL-3: LOW-E COATED, CLEAR INSULATING GLASS (SHGC 0.36 (SEW) 0.48 (N))
 GL-4: LOW-E COATED, TINTED INSULATING GLASS
 GL-5: LOW-E COATED, INSULATING SAFETY GLAZING (U-0.38) (SHGC 0.36 (SEW) 0.48 (N))
 GL-6: LOW-E COATED, SINGLE PANEL SAFETY GLAZING
 SG: TEMPERED SAFETY GLAZING

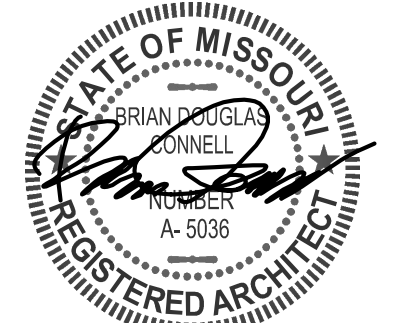
HARDWARE GROUPS:

1: PASSAGE LATCHSET, LEVER
 2: PRIVACY LOCKSET, LEVER
 3: PUSH PLATES / PULL HANDLES / CLOSERS
 4: OFFICE LOCKSET, LEVER
 5: STOREROOM LOCKSET (KEYED TO OWNER'S MASTER), LEVER / CLOSER / 1 1/2 PAIR HEAVY-DUTY BUTT HINGES / SILENCER KIT
 6: ENTRANCE LOCKSET, LEVER / DEADBOLT / CLOSER
 7: ENTRANCE LOCKSET, PANIC DEVICES, CONCEALED VERTICAL RODS (INACTIVE), CLOSERS
 8: EXISTING HARDWARE TO REMAIN
 9: INSTALL AUTOMATIC DOOR OPERATOR ON WEST DOOR LEAF - SYNCHRONIZE WITH OWNER'S SECURITY HARDWARE



1 DOOR & FRAME TYPES
 SCALE: 1/4" = 1'-0"

STATE OF MISSOURI
 MICHAEL L. PARSON,
 GOVERNOR



12/22/2023
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PROJECT No. T2211-01
 SITE No. 6300
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REVISION: _____
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 DATE: _____
 ISSUE DATE: 12/22/2023

CAD DWG FILE:
 T2211-01-6300-8136300012-A-600
 DRAWN BY: BDC
 CHECKED BY: BDC
 DESIGNED BY: BDC

SHEET TITLE:

**DOOR &
 HARDWARE
 SCHEDULE**

SHEET NUMBER:

A-600

SHEET 15 OF 29
 ISSUE DATE: 12/22/2023

ROOM FINISH SCHEDULE - T2211-01 DESIGN & CONSTRUCT ELEVATOR & ASSEMBLY

ROOM		FLOOR		WALL BASE	WALLS								CEILING			NOTES:
					NORTH		EAST		SOUTH		WEST		MATERIAL	FINISH	HEIGHT	
NUMBER	NAME	SUBSTRATE	FINISH		SUBSTRATE	FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH				
1st FLOOR																
	VESTIBULE	CONC	VCT	RB-1	OPEN	NONE	GYP BD	PT-1	OPEN	NONE	CMU	PT-3	ACT-1	NOTE 2	8'-4"	
	1st FLOOR LOBBY	CONC	VCT	EXISTING	CMU	PT-3	CMU	PT-3	CMU	PT-3	CMU	PT-3	ACT-1	EXISTING	8'-4"	NOTE 4
M09	EXISTING STORAGE	CONC	EXISTING	EXISTING	CMU	EXISTING	CMU	EXISTING	GYP BD	EXISTING	GYP BD	EXISTING	EXP-2	EXISTING	8'-4"	NO WORK THIS AREA
	EAST CORRIDOR	CONC	EXISTING	EXISTING	GYP BD	EXISTING	GYP BD	EXISTING	CMU	EXISTING	CMU	EXISTING	ACT-1	EXISTING	8'-4"	NO WORK THIS AREA
M08	EXISTING OFFICE	CONC	EXISTING	EXISTING	CMU	EXISTING	CMU	EXISTING	CMU	EXISTING	CMU	EXISTING	ACT-1	EXISTING	8'-4"	NO WORK THIS AREA
	SECURE STORAGE	CONC	VCT	RB-1*	CMU	EXISTING	CMU	EXISTING	CMU	EXISTING	CMU	EXISTING	EXP-2	EXISTING		NOTE 3
	1st FLOOR ELEVATOR LOBBY	CONC	VCT	RB-1	CMU	PT-3	CMU	PT-3	OPEN	NONE	CMU	PT-3	ACT-1	NOTE 2	8'-4"	
	MACHINE ROOM	CONC	SC-1	NONE	CMU	PT-3	CMU	PT-3	CMU	PT-3	CMU	PT-3	EXP-2	PT-5		
	ELEVATOR HOISTWAY	CONC	NONE	NONE	CMU	PT-3	CMU	PT-3	CMU	PT-3	CMU	PT-3	EXP-2	PT-5		
2nd FLOOR																
M138	SLEEPING QUARTERS	CONC	VCT	EXISTING	CMU	PT-3	GYP BD	EXISTING	GYP BD	EXISTING	GYP BD	PT-1	ACT-1	EXISTING		NO WORK THIS AREA
	EXISTING OFFICE	CONC	VCT	RB-1	CMU	PT-3	GYP BD	EXISTING	GYP BD	EXISTING	GYP BD	PT-1	ACT-1	EXISTING		NOTE 4
M140	EXISTING OFFICE	CONC	VCT	EXISTING	CMU	EXISTING	GYP BD	EXISTING	GYP BD	EXISTING	GYP BD	EXISTING	ACT-1	EXISTING		NO WORK THIS AREA
	EAST CORRIDOR	CONC	VCT	EXISTING	GYP BD	PT-1	GYP BD	EXISTING	GYP BD	EXISTING	GYP BD	EXISTING	ACT-1	EXISTING		NO WORK THIS AREA
	CENTRAL CORRIDOR	CONC	VCT	RB-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	ACT-1	EXISTING		NOTE 5
	WEST CORRIDOR	CONC	VCT	EXISTING	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	GYP BD	PT-1	ACT-1	EXISTING		NO WORK THIS AREA
	2nd FLOOR ELEVATOR LOBBY	CONC	VCT	RB-1	CMU	PT-3	GYP BD	PT-1	OPEN	NONE	GYP BD	PT-1	ACT-1	NOTE 2		
	ELEVATOR HOISTWAY	CONC	NONE	NONE	CMU	PT-3	CMU	PT-3	CMU	PT-3	CMU	PT-3	EXP-2	PT-5		

ABBREVIATIONS

FLOOR SUBSTRATE:

CONC: CONCRETE SLAB OR DECK
 WOOD: PLYWOOD OR DIMENSION LUMBER WOOD SUBFLOOR
 STEEL: STEEL DECKING

FLOOR FINISHES:

SC-1 SEALED CONCRETE - CLEAR (TEXTURE SELECTED BY OWNER)
 SC-2 STAINED CONCRETE (COLOR & TEXTURE SELECTED BY OWNER)
 CPT-1: ROLL CARPET & PAD (MATERIAL, FACE WEIGHT, PILE, COLOR & PATTERN SELECTED BY OWNER)
 CPT-2: CARPET TILE W/ INTEGRAL PAD (SIZE, MATERIAL, FACE WEIGHT, PILE, COLOR & PATTERN SELECTED BY OWNER)
 VCT-1: 12"x12" VINYL COMPOSITION TILE (COLOR, PATTERN SELECTED BY OWNER)
 CT-1: GLAZED CERAMIC TILE (SIZE, COLOR, PATTERN & TEXTURE SELECTED BY OWNER)
 QT-1: QUARRY TILE (SIZE, COLOR, PATTERN & TEXTURE SELECTED BY OWNER)
 QTZ-1: SEAMLESS SYNTHETIC AGGREGATE RESIN FLOORING (TROWEL-APPLIED) WITH INTEGRAL 4" COVE BASE, WITH MEDIUM SLIP-RESISTANT TEXTURE (COLOR, PATTERN SELECTED BY OWNER)
 LVP-1: LUXURY VINYL PLANK FLOORING (ARMSTRONG LUXE VINYL PLANK OR SIMILAR)
 SV-1: SHEET VINYL FLOORING (ARMSTRONG DUALITY PREMIUM PLUS SHEET BINVYL OR SIMILAR)
 HW-1: TONGUE & GROOVE HARDWOOD FLOORING (SPECIES, SIZE & FINISH SELECTED BY OWNER)

WALL BASE:

RB-1: 4" RUBBER COVE BASE (PROFILE & COLOR TO MATCH EXISTING - SELECTED BY OWNER)
 RB-2: 6" RUBBER COVE BASE (PROFILE & COLOR SELECTED BY OWNER)
 WB-1: 4" (NOM) WOOD BASE (PROFILE, SPECIES AND FINISH COLOR SELECTED BY OWNER)
 WB-2: 6" (NOM) WOOD BASE (PROFILE, SPECIES AND FINISH COLOR SELECTED BY OWNER)
 CTB-1: GLAZED CERAMIC TILE BASE (PROFILE, SIZE AND COLOR SELECTED BY OWNER)
 QTB-1: QUARRY TILE BASE (PROFILE, SIZE AND COLOR SELECTED BY OWNER)

WALL MATERIALS:

CONC: CONCRETE
 CMU: CONCRETE MASONRY UNITS
 GYP BD: GYPSUM WALLBOARD (LEVEL 4 FINISH) - THICKNESS AS SPECIFIED IN DRAWINGS
 WOOD: PLYWOOD PANELS OR DIMENSION LUMBER
 METAL: SHEET METAL PANELS, FLAT OR CORRUGATED

WALL FINISHES:

PT-1 ONE COAT INTERIOR LATEX PRIMER, 2 COATS ZERO VOC INTERIOR LATEX PAINT (GLOSS LEVEL, COLOR & TEXTURE SELECTED BY OWNER)
 PT-2: INTERIOR LATEX ENAMEL PAINT OVER LATEX PVA PRIMER (VINYL ACRYLIC WATER-BASED PRIMER) (GLOSS LEVEL, COLOR & TEXTURE SELECTED BY OWNER)
 PT-3: ONE COAT ACRYLIC BLOCK SURFACER PRIMER, 2 COATS ZERO VOC INTERIOR LATEX PAINT (GLOSS LEVEL, COLOR & TEXTURE SELECTED BY OWNER)
 FRP-1: FIBERGLASS-REINFORCED PLASTIC PANELS, 1/8"x48"x FULL-HEIGHT (COLOR & TEXTURE SELECTED BY OWNER)
 WC-1: VINYL-COATED PAPER WALLCOVERING (27" ROLL) - COLOR, PATTERN & TEXTURE SELECTED BY OWNER
 CT-1: GLAZED CERAMIC TILE (SIZE, COLOR & TEXTURE SELECTED BY OWNER)

CEILING MATERIALS:

GYP. BD: GYPSUM WALLBOARD (LEVEL 4 FINISH) - THICKNESS AS SPECIFIED IN DRAWINGS
 ACT-1: 2x2' ACOUSTICAL LAY-IN TILE CEILING (GRID & TILES - PROFILE, COLOR & TEXTURE SELECTED BY OWNER)
 ACT-2: 2x4' ACOUSTICAL LAY-IN TILE CEILING (GRID & TILES - PROFILE, COLOR & TEXTURE SELECTED BY OWNER)
 ACT-3: 2X2' WASHABLE ACOUSTICAL LAY-IN TILE CEILING (GRID & TILES - PROFILE, COLOR & TEXTURE SELECTED BY OWNER)
 ACT-4: 2x2' WASHABLE ACOUSTICAL LAY-IN TILE CEILING (GRID & TILES - PROFILE, COLOR & TEXTURE SELECTED BY OWNER)
 EXP-1: EXPOSED STRUCTURE (NO CEILING SYSTEM OR FINISH)
 EXP-2: EXPOSED STRUCTURE - PAINTED
 PLSTR: PLASTER OR STUCCO

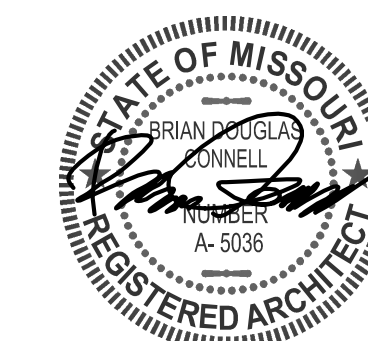
CEILING FINISHES:

PT-4: 2 COATS INTERIOR LATEX FLAT CEILING PAINT (COLOR SELECTED BY OWNER)
 PT-5: 1 COAT DTM PRIMER, 1-2 COATS WATERBORNE ACRYLIC DRYFALL PAINT (COLOR & TEXTURE SELECTED BY OWNER)

NOTES:


NOTE 1: EXISTING TO REMAIN
 NOTE 2: MATCH EXISTING CEILING GRID & TILE (COLOR & TEXTURE)
 NOTE 3: MINIMAL WORK THIS AREA - LIMITED TO PATCH & REPAIR OF FLOOR & WALL SURFACES ADJACENT TO NEW MACHINE ROOM DOOR
 NOTE 4: MINIMAL WORK THIS AREA - LIMITED TO PATCH & REPAIR OF EXISTING FLOOR, WALL & CEILING SURFACES AT VESTIBULE & 1st FLOOR ELEVATOR LOBBY ALTERATIONS
 NOTE 5: MINIMAL WORK THIS AREA - LIMITED TO PATCH & REPAIR OF EXISTING FLOOR, WALL & CEILING SURFACES AT NEW DOORWAY TO 2nd FLOOR ELEVATOR LOBBY

STATE OF MISSOURI
 MICHAEL L. PARSON,
 GOVERNOR



12/22/2023
 BRIAN DOUGLAS CONNELL ARCHITECT MO A-5036

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OFFICE OF
 ADMINISTRATION
 DIVISION OF FACILITIES
 MANAGEMENT, DESIGN
 AND CONSTRUCTION

MISSOURI
 NATIONAL GUARD

DESIGN & CONSTRUCT
 ELEVATOR & ASSEMBLY

MILITARY EDUCATION BLDG
 IKE SKELTON TRAINING SITE
 2302 MILITIA DRIVE
 JEFFERSON CITY, MO 65101

PROJECT No. T2211-01
 SITE No. 6300
 ASSET No. 8136300012

REVISION: _____
 DATE: _____
 REVISION: _____
 DATE: _____
 REVISION: _____
 DATE: _____
 ISSUE DATE: 12/22/2023

CAD DWG FILE:
 T2211-01-6300-8136300012-A-601
 DRAWN BY: BDC
 CHECKED BY: BDC
 DESIGNED BY: BDC

SHEET TITLE:

**ROOM FINISH
 SCHEDULE**

SHEET NUMBER:

A-601

SHEET 16 OF 29
 ISSUE DATE: 12/22/2023

MONG Elevator Addition

Jefferson City, Cole County, Missouri

GENERAL NOTES

ELEVATION DATUM

SEE ARCHITECTURAL DRAWINGS OR SITE PLAN FOR FINISH FLOOR ELEVATIONS

DESIGN SPECIFICATIONS

2018 INTERNATIONAL BUILDING CODE

EARTHWORK

EARTHWORK OPERATIONS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL TESTING AGENCY TO ASSURE COMPLIANCE WITH THE RECOMMENDATIONS OF THE SOILS REPORT.

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 305 SPECIFICATIONS FOR HOT WATER CONCRETE, AND ACI 306 SPECIFICATIONS FOR COLD WEATHER CONCRETE, WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

- CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY MINIMUM COMPRESSIVE STRENGTH:

FOUNDATIONS	-	3,000 PSI
CAST-IN-PLACE WALLS	-	3,500 PSI
FLOOR SLAB	-	4,000 PSI
EXTERIOR SLABS, WALLS AND CURBS	-	4,000 PSI
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.
- CHLORIDE-BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60.
- ALL CONTINUOUS REINFORCING STEEL THAT MEETS AT A CORNER SHALL BE TIED TOGETHER WITH A CORNER BAR THAT HAS SUFFICIENT LAP DISTANCE IN EACH DIRECTION.
- CONTINUOUS REINFORCING BARS LAP LENGTH SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.

- CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C-143) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY. NO WATER MAY BE ADDED TO THE CONCRETE MIX ON SITE UNLESS WATER IS WITHHELD AT THE BATCHING FACILITY. IF WATER IS WITHHELD AT THE BATCHING FACILITY IT SHOULD BE REFLECTED ON THE LOAD TICKET. THE TOTAL AMOUNT OF WATER IN THE MIX SHALL NOT EXCEED WHAT IS NOTED ON THE APPROVED MIXED. THIS SHALL BE NOTED IN THE SPECIAL INSPECTOR'S RECORDS.

- CONCRETE EXPOSED TO WEATHER, VEHICLES, AND/OR DEICING CHEMICALS SHALL BE AIR-ENTRAINED WITH 6% (+/-) 1.5% ENTRAINED AIR BY VOLUME AT POINT OF DISCHARGE. DO NOT ALLOW AIR CONTENT OF TROWELED FINISHED FLOORS TO EXCEED 3%.
- SUBMIT CONCRETE MIX PROPORTIONS PRIOR TO START OF WORK. DO NOT BEGIN CONCRETE PRODUCTION UNTIL MIXES HAVE BEEN REVIEWED AND ARE ACCEPTABLE TO THE ENGINEER.
- READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94.
- CONCRETE WORK EXECUTION
 - CONSTRUCT FORMS TO CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION; AND TO SUPPORT VERTICAL AND LATERAL LOADS.
 - POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE, UNLESS NOTED OTHERWISE ON THE DRAWINGS:

CAST AGAINST AND EXPOSED TO EARTH.....	3	INCHES
EXPOSED TO EARTH OR WEATHER.....	2	INCHES
NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH.....	1 1/2	INCHES
 - PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 15 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM 1/4 OF SLAB DEPTH, AS SOON AFTER SLAB FINISHING WITHOUT DISLODGING AGGREGATE.
 - STEEL TROWEL FINISH ALL INTERIOR CONCRETE SLABS, BROOM FINISH ALL EXTERIOR CONCRETE SLABS.
 - CURE ALL CONCRETE IN COMPLIANCE WITH ACI 301, USING A LIQUID TYPE MEMBRANE, NON-RESIDUAL, CURING COMPOUND COMPLYING WITH ASTM C309. ASSURE COMPATIBILITY WITH FINISH FLOOR COVERING.

POST-INSTALLED ANCHORS

- ALL POST-INSTALLED ANCHORS SHALL MEET THE REQUIREMENTS OF THE CODE-CITED EDITION OF ACI 318, APPENDIX "D" AND SHALL BE ACCEPTABLE FOR BOTH CRACKED AND UNCRACKED CONCRETE.
- EXPANSION ANCHORS HAVE BEEN DESIGNED AS HIT-TO-BOLT ANCHORS, UNLESS NOTED OTHERWISE.
- ADHESIVE ANCHORS HAVE BEEN DESIGNED TO USE HILTI HIT HY 200 ADHESIVE IN CONCRETE OR SOLID MASONRY, UNLESS NOTED OTHERWISE.
- EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL. SUBMITTALS ARE THE CONTRACTOR'S RESPONSIBILITY AND MUST INCLUDE EVALUATION REPORTS FROM THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO).
- EMBEDMENT DEPTH IS DEFINED AS THE DISTANCE FROM THE SURFACE OF THE LOAD-BEARING BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN DRIVEN INTO THE HOLE BUT NOT YET EXPANDED.
- ADHESIVE ANCHORS SHALL BE ACCEPTABLE FOR LONG-TERM LOADING. WHEN BASE MATERIAL TEMPERATURES ARE BELOW 40 DEG F, ONLY NON-EPOXY-BASED ADHESIVES SHALL BE USED.
- POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN TO AVOID CONFLICTS WITH EXISTING REINFORCING BARS. HOLES SHALL BE DRILLED AND CLEANED PER ANCHOR MANUFACTURER'S SPECIFICATIONS.
- STAINLESS STEEL ANCHORS ARE REQUIRED AT ALL PERMANENTLY EXPOSED WEATHER CONDITIONS.

COLD-FORMED METAL FRAMING

- ALL PRODUCTS TO BE MANUFACTURED BY CURRENT MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION.
- ALL GALVANIZED STUDS AND JOISTS SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE AISI STANDARDS. F_y = 33 KSI UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AND SHALL CONFORM TO ASTM C955.
- FASTENING OF COMPONENTS SHALL BE WITH CORROSION RESISTANT SELF-DRILLING SCREWS, OR WELDS COMPLYING WITH AISI STANDARDS. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH ZINC-RICH PAINT. WELDERS SHALL BE QUALIFIED PER AWS D1.3.
- SLIP TRACK IS EXPECTED AT ROOF TO WALL CONNECTIONS @ INTERIOR WHEN WALLS ARE GROUND SUPPORTED.

MASONRY

MASONRY WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 530.1 SPECIFICATIONS FOR MASONRY STRUCTURES WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

- HOLLOW MASONRY BLOCK SHALL CONFORM TO ASTM C90 REGULAR WEIGHT GRADE N1.
- COURSE GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI.
- MORTAR SHALL BE TYPE S CONFORMING TO ASTM C270. AVERAGE COMPRESSIVE STRENGTH IS 2,000 PSI.
- MINIMUM 28-DAY COMPRESSIVE STRENGTH OF MASONRY; f_m = 2,000 PSI.
- WIRE REINFORCING SHALL CONFORM TO ASTM A82, STANDARD TRUSS-TYPE DUR-O-WALL REINFORCING (OR APPROVED EQUAL) AND SHALL BE PLACED CONTINUOUSLY IN ALTERNATE HORIZONTAL MORTAR JOINTS.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60. THE MINIMUM LAP FOR SPLICES SHALL BE 48 BAR DIAMETERS. PROVIDE DUR-O-WAL REBAR POSITIONERS.
- ALL STEEL LINTELS TO BE A36 STEEL OR A992 GRADE 50. ALL LINTELS TO BE HOT DIPPED GALVANIZED.
- INTERSECTING STRUCTURAL WALLS SHALL BE ANCHORED BY STEEL CONNECTORS SPACED VERTICALLY AT 48" O.C. MAXIMUM. THE CONNECTORS SHALL CONFORM TO ASTM A36 AND SHALL HAVE A MINIMUM SECTION OF 1/4" x 1 1/8". THEY SHALL BE 28" LONG WITH 2" AT EACH END BENT AT 90 DEGREES TO FORM A 'U' OR 'Z' SHAPE. ALL CELLS ABOVE AND BELOW THE ANCHOR SHALL BE GROUTED, AND THE BENT ENDS OF THE CONNECTORS SHALL BE EMBEDDED IN THE GROUT, 2" MIN.
- EXPANSION JOINTS SHALL BE PROVIDED IN CMU BLOCK WALLS FULL HEIGHT OF WALL AT INTERVALS NOT EXCEEDING 24'-0". NOT CLOSER THAN 2'-8" FROM OPENINGS. JOINT REINFORCING SHALL BE SEVERED AT EXPANSION JOINT LOCATIONS, HOWEVER BOND BEAM REINFORCING SHALL BE CONTINUOUS THROUGH THE JOINT.
- BOND BEAMS OR GROUTED CELLS ARE REQUIRED AT ALL CONNECTIONS TO CMU.

STRUCTURAL STEEL

- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE AISI SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, THE AISI CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AND CURRENT OSHA STANDARDS.
- WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992. STRUCTURAL TUBES SHALL CONFORM TO ASTM A500 GRADE B. ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36.
- BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM A325-N, SIZE AS PER PLAN.
- ANCHOR BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM F1554 GRADE 36.
- SPlicing OF STRUCTURAL STEEL IS PROHIBITED EXCEPT AS DETAILED.
- ALL STRUCTURAL AND MISCELLANEOUS STEEL ITEMS SHALL RECEIVE ONE COAT OF IRONCLAD RETARDOR RUST INHIBITIVE PAINT 1637 (BENJAMIN MOORE) OR APPROVED EQUAL UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS. ALL STEEL SURFACES EMBEDDED IN CONCRETE SHALL NOT BE PAINTED. PREPARATION OF STEEL SURFACES SHALL MEET THE REQUIREMENTS OF THE STEEL STRUCTURES PAINTING COUNCIL (SSPC-SP1) AND THE REMOVAL OF GREASE AND OIL BY SOLVENT CLEANING (SSPC-SP1) AND THE REMOVAL OF MILL SCALE, RUST, WELD FLUX AND SLAG BY HAND TOOL CLEANING (SSPC-SP2). PRIMER SHALL BE APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE BUT NOT LESS THAN ONE GALLON PER 400 SQ.FT. THEREBY DEPOSITING A DRY FILM THICKNESS OF NOT LESS THAN 1.5 MILS. ANY SCARRED AREAS SHALL BE TOUCHED UP WITH THE SAME PAINT AFTER ERECTION.
- ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS IN ACCORDANCE WITH THE CURRENT EDITION OF THE AWS STRUCTURAL WELDING CODE. WELDING ELECTRODES SHALL BE E70XX.

NON-COMPOSITE DECK / SUSPENDED SLABS

- FABRICATE RIBBED-STEEL-SHEET NONCOMPOSITE FORM-DECK PANELS TO COMPLY WITH "SDI SPECIFICATIONS AND COMMENTARY FOR NONCOMPOSITE STEEL FORM DECK," IN SDI PUBLICATION NO. 31.
- GALVANIZED-STEEL SHEETS SHALL BE CONSTRUCTED TO MEET ASTM A 653, STRUCTURAL STEEL (SS), GRADE 33, G30 ZINC COATING.
- DECK BUNDLES SHALL BE PLACED ON JOISTS WITH EXTREME CAUTION, FOLLOWING THE JOIST MANUFACTURER'S RECOMMENDATIONS FOR PROPER PLACEMENT. DECKING OR DECK ACCESSORY BUNDLES SHALL NOT EXCEED 4000 LBS.
- DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS.
- ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS, IN ACCORDANCE WITH THE CURRENT EDITION OF THE AWS D1.3 - STRUCTURAL WELDING CODE - SHEET STEEL (AND COMMENTARY). WELDING ELECTRODES SHALL BE E6022.
- SHORING OF STRUCTURAL STEEL OR DECK MEMBERS PRIOR TO CASTING CONCRETE IS NOT REQUIRED.
- DEPTH OF CONCRETE SLAB SHALL BE BY GAGE/MEASUREMENT METHOD, NOT BY TRANSIT OR SITE LEVEL METHOD PER ACI 117-90 FOR SUSPENDED SLABS. FLOOR FLATNESS (FF) TO EXCEED 35 FOR ALL SUSPENDED SLABS NOT INTENDED FOR ROOFS.
- NON-COMPOSITE SLABS SHALL NOT BE SAW CUT.

STEEL ROOF DECK

- THE DESIGN, FABRICATION AND ERECTION OF THE STEEL ROOF DECK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE SDI SPECIFICATIONS AND COMMENTARY FOR STEEL ROOF DECK AND THE SDI DIAPHRAGM DESIGN MANUAL.
- MINIMUM END LAP SHALL BE 3".
- ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS IN ACCORDANCE WITH THE CURRENT EDITION OF THE AWS SPECIFICATIONS FOR WELDED SHEET STEEL AND ITS COMMENTARY. WELDING ELECTRODES SHALL BE E6022. HOBART #1139, 5/32" DIAMETER WELDING ELECTRODES MEET THIS REQUIREMENT.
- ROOF DECK SHALL RECEIVE ONE COAT OF MANUFACTURER'S STANDARD PRIMER. ALL DECK WELDS SHALL BE PAINTED WITH RUST PROHIBITIVE METAL PRIMER PRIOR TO ROOFING. COLOR TO BE DETERMINED BY OWNER OR ARCHITECT.
- ROOF DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS.
- ROOF DECK BUNDLES SHALL BE PLACED ON JOISTS WITH EXTREME CAUTION, FOLLOWING THE JOIST MANUFACTURER'S RECOMMENDATIONS FOR PROPER PLACEMENT.
- DECKING OR DECK ACCESSORY BUNDLES SHALL NOT EXCEED 4,000 LBS.

STEEL HELICAL PILES

- DESCRIPTION
 - THIS WORK PERTAINS TO DESIGNING, FURNISHING, INSTALLING, LOADING AND TESTING HELICAL ANCHORS AND HELICAL PILES IN ACCORDANCE WITH THE DRAWINGS AND THESE SPECIFICATIONS TO SUPPORT COMPRESSIVE LOADS SHOWN ON THE PLANS.
- MATERIALS
 - GUARANTEES AND INSURANCE
 - HELICAL PIER AND BRACKET MANUFACTURER SHALL FURNISH A GUARANTEE FOR A PERIOD OF TEN (10) YEARS FROM DATE OF DELIVERY AGAINST DEFECTS DUE TO MANUFACTURING OF STEEL PUSH PIER AND BRACKET. STEEL PUSH PIER AND BRACKET MANUFACTURER MUST CARRY PRODUCT LIABILITY INSURANCE. REFER TO GENERAL CONDITIONS FOR ADDITIONAL INSURANCE REQUIREMENTS.
 - PREQUALIFICATION REQUIREMENTS
 - DUE TO THE SPECIAL REQUIREMENTS FOR DESIGN AND MANUFACTURE OF HELICAL ANCHORS AND HELICAL PILES, AND THE REQUIREMENTS FOR PROPER PERFORMANCE OF THE STRUCTURAL SYSTEM, AS A WHOLE, HELICAL ANCHORS AND HELICAL PILES SHALL BE OBTAINED FROM AN ORGANIZATION SPECIALIZING IN THE DESIGN AND MANUFACTURE OF HELICAL ANCHORS AND HELICAL PILES. EVIDENCE OF COMPETENCE IN THE MANUFACTURE OF HELICAL PILES SHALL BE PROVIDED AND SHALL INCLUDE THE FOLLOWING:
 - A CATALOG OR RECENT BROCHURE DESCRIBING THE MANUFACTURER.
 - EVIDENCE SHOWING MANUFACTURER HAS AT LEAST THREE (3) YEARS' EXPERIENCE IN THIS AREA OF WORK.
 - DETAILED DESCRIPTIONS, SCHEMATIC DETAILS, AND MATERIAL PROPERTIES FOR ALL PRODUCTS TO BE USED ON THIS PROJECT.
 - CURRENT ICCES/BOCA/ICBO PRODUCT ACCEPTANCE REPORT OR COMPLETE DESCRIPTION OF PRODUCT TESTING AND MANUFACTURING QUALITY ASSURANCE PROGRAMS USED TO ASSESS AND MAINTAIN PRODUCT QUALITY.
 - MINIMUM MATERIAL REQUIREMENTS
 - HELICAL ANCHOR AND HELICAL PILES SHALL HAVE A TUBULAR ROUND SHAFT AND SHALL HAVE THE REQUIRED NUMBER OF HELICAL BLADES SO AS TO PROVIDE ADEQUATE LOAD CARRYING CAPACITY. THE STRENGTH OF THE HELICAL BLADES, SHAFT CONNECTIONS, BRACKET ASSEMBLY, AND THE SHAFT ITSELF SHALL BE SUFFICIENT TO SUPPORT THE DESIGN LOADS SPECIFIED ON THE PLANS. HELICAL ANCHORS, HELICAL PILES, AND BRACKET ASSEMBLIES SHALL BE DESIGNED IN ACCORDANCE WITH MODERN STANDARDS FOR STEEL CONSTRUCTION. DESIGN CAPACITY SHALL TAKE INTO ACCOUNT CORROSION OVER A 50 YEAR DESIGN LIFESPAN. HELICAL PILES AND HELICAL ANCHORS SHALL BE PROTECTED FROM CORROSION BY HOT-DIP GALVANIZING PER ASTM A123 OR A153, AS APPLICABLE.
 - THE HELICAL ANCHOR AND HELICAL PILE SHAFT CONNECTIONS SHALL BE IN-LINE, STRAIGHT AND RIGID AND SHALL HAVE A MAXIMUM TOLERABLE SLACK OF 1/16-INCH. BOLTS USED TO JOIN HELICAL ANCHOR AND HELICAL PILE SECTIONS AT THE SHAFT CONNECTIONS SHALL BE ZINC COATED OR GALVANIZED AND SHALL BE THE GRADE AND SIZE SPECIFIED BY THE HELICAL ANCHOR AND HELICAL PILE MANUFACTURER. ALL HELICAL ANCHOR AND HELICAL PILE BOLTS SHALL BE SECURELY SNAG TIGHTENED.
 - HELICAL ANCHORS SHALL BE FITTED WITH AN ADJUSTABLE BRACKET ASSEMBLY THAT FACILITATES BOTH POST-TENSIONING AND PROOF LOAD TESTING. HELICAL PILES SHALL BE FITTED WITH A MANUFACTURED BRACKET ASSEMBLY RATED FOR THE DESIGN LOADS SHOWN ON THE PLANS AND THE STRENGTH OF THE CONCRETE OR OTHER STRUCTURE THEY SUPPORT.
- DESIGN AND PERFORMANCE REQUIREMENTS
 - DESIGN AND APPLICATION
 - A LIST OF ALL HELICAL ANCHOR, HELICAL PILE, AND BRACKET MATERIALS TO BE USED ON THIS PROJECT SHALL BE SUBMITTED WITH THE BID PACKAGE. THE LIST SHALL CLEARLY STATE THE ALLOWABLE MECHANICAL CAPACITY OF ALL MATERIALS. THE LIST SHALL BE CERTIFIED BY THE MANUFACTURER'S ENGINEER. IT IS THE HELICAL ANCHOR AND HELICAL PILE INSTALLATION CONTRACTOR'S RESPONSIBILITY TO SELECT THE APPROPRIATE SIZE AND TYPE OF HELICAL ANCHORS, HELICAL PILES, AND BRACKET ASSEMBLIES. THESE SPECIFICATIONS AND THE PLANS PROVIDE MINIMUM REQUIREMENTS TO Aid THE CONTRACTOR IN MAKING APPROPRIATE MATERIAL SELECTIONS. THE SIZE AND NUMBER OF HELICAL BLADES MUST BE SUCH THAT THE HELICAL ANCHORS AND HELICAL PILES ACHIEVE THE APPROPRIATE TORQUE AND CAPACITY IN THE SOILS AT THIS SITE WITHIN THE MINIMUM AND MAXIMUM LENGTH REQUIREMENTS. FAILURE TO ACHIEVE PROPER TORQUE AND CAPACITY SHALL RESULT IN CONTRACTOR REPLACING HELICAL ANCHORS AND HELICAL PILES AS APPROPRIATE TO SUPPORT THE REQUIRED LOADS.
 - AFTER AWARD OF THIS PROJECT, WITHIN TWO WEEKS, THE CONTRACTOR SHALL SUPPLY A PLAN AND SECTION WITH THE FINAL DESIGN OF THIS PROJECT SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. THE FINAL DESIGN SHOULD INCLUDE A PLAN WITH ANCHOR LOCATION, THE ANCHOR PROFILE, THE HELICAL ANCHOR CAPACITIES AND THE SAFETY FACTOR, AND CONNECTION TO THE EXISTING STRUCTURE/FOUNDATION.
 - CONSTRUCTION REQUIREMENTS
 - WARRANTY AND INSURANCE
 - HELICAL ANCHOR AND HELICAL PILE INSTALLATION CONTRACTOR SHALL FURNISH A WARRANTY FOR A PERIOD OF TEN (10) YEARS FROM DATE OF INSTALLATION AGAINST DEFECTS DUE TO WORKMANSHIP ON INSTALLATION OF HELICAL ANCHOR, HELICAL PILE, AND BRACKET ASSEMBLIES. HELICAL ANCHOR AND HELICAL PILE INSTALLER MUST CARRY GENERAL LIABILITY INSURANCE. REFER TO GENERAL CONDITIONS FOR ADDITIONAL INSURANCE REQUIREMENTS.
 - PREQUALIFICATION REQUIREMENTS
 - DUE TO THE SPECIAL REQUIREMENTS FOR INSTALLATION OF HELICAL ANCHORS AND HELICAL PILES, AND THE REQUIREMENTS FOR PROPER PERFORMANCE OF THE STRUCTURAL SYSTEM, AS A WHOLE, HELICAL ANCHORS, HELICAL PILES, AND BRACKET ASSEMBLIES SHALL BE INSTALLED BY AN ORGANIZATION SPECIALIZING IN THE INSTALLATION OF HELICAL ANCHORS AND HELICAL PILES. ANY CONTRACTOR BIDDING THIS PROJECT AS THE HELICAL ANCHOR AND HELICAL PILE INSTALLER SHALL PROVIDE THE FOLLOWING:
 - A RECENT COMPANY BROCHURE INDICATING EXPERIENCE IN THIS TYPE OF WORK.
 - EVIDENCE OF HAVING INSTALLED HELICAL ANCHORS AND HELICAL PILES ON AT LEAST THREE (3) PROJECTS, INCLUDING PROJECT NAME, LOCATION, AND CLIENT CONTACT INFORMATION.
 - DETAILED DESCRIPTION OF HELICAL ANCHORS AND HELICAL PILES, BRACKETS, AND CONNECTIONS OF BRACKET TO STRUCTURE PROPOSED FOR USE ON THIS PROJECT.
 - PROPOSED METHOD OF INSTALLATION/ LOAD TESTING PILE AND BRACKET.
 - INSTALLATION EQUIPMENT
 - EACH HELICAL ANCHOR AND HELICAL PILE SHALL BE ADVANCED INTO THE GROUND BY APPLICATION OF ROTATIONAL FORCE USING A HYDRAULIC TORQUE CONVERTER. INSTALLATION EQUIPMENT SHALL INCLUDE A DIRECT MEANS OF DETERMINING THE INSTALLATION TORQUE BEING APPLIED TO THE HELICAL ANCHOR AND HELICAL PILE. INSTALLATION EQUIPMENT ALSO SHALL INCLUDE A MEANS FOR APPLYING AND MEASURING LOADS AND DEFLECTIONS OF HELICAL PILES AND HELICAL ANCHORS FOR CAPACITY TESTING.
 - GENERAL CONDITIONS
 - THE INSTALLING CONTRACTOR SHALL REQUEST MARKING OF UNDERGROUND UTILITIES BY AND UNDERGROUND UTILITY LOCATION SERVICE AS REQUIRED BY LAW, AND SHALL AVOID CONTACT WITH ALL MARKED UNDERGROUND FACILITIES. THE CONTRACTOR SHALL KEEP THEIR PORTION OF THE PROJECT REASONABLY CLEAN AND ORDERLY.
 - INSTALLING HELICAL ANCHORS AND HELICAL PILES
 - LOADS SHOWN ON THE PLANS ARE UNFACTORED DESIGN LOADS. A MINIMUM FACTOR OF SAFETY OF 2.0 SHALL BE USED TO DETERMINE THE REQUIRED ULTIMATE TENSILE CAPACITY OF THE HELICAL ANCHORS AND COMPRESSIVE CAPACITY OF HELICAL PILES WITH REGARD TO THEIR INTERACTION WITH SOIL AND BEDROCK.
 - HELICAL ANCHOR AND HELICAL PILE CAPACITY IN SOIL AND ON BEDROCK DEPENDS ON THE GEOMETRIC CONTRIBUTION OF THE HELICAL BLADES ABOUT THE LEAD SECTION AND THE SUBSURFACE CONDITIONS. THE TORQUE APPLIED DURING INSTALLATION PROVIDES AN INDIRECT VERIFICATION OF AXIAL CAPACITY.
 - MANUFACTURER'S RECOMMENDATIONS SHOULD BE FOLLOWED REGARDING THE TORQUE AND THE TENSILE/BEARING CAPACITY RELATIONSHIP FOR THE PARTICULAR HELICAL ANCHOR AND HELICAL PILES SELECTED. THE NUMBER AND SIZE OF BLADES SHALL BE DETERMINED BY THE CONTRACTOR SO AS TO ACHIEVE THE REQUIRED TORQUE AND TENSILE/BEARING CAPACITY FOR THE SOIL CONDITIONS AT THE SITE. HOWEVER, THE RATIO OF DESIGN ALLOWABLE CAPACITY TO THE TOTAL AREA OF THE HELICAL BLADES SHALL NOT EXCEED THE ALLOWABLE SUBSURFACE MATERIAL BEARING CAPACITY.
 - HELICAL ANCHORS AND HELICAL PILES SHALL BE ADVANCED INTO THE GROUND UNTIL THE REQUIRED TORQUE IS ACHIEVED TO ACCOMMODATE THE ULTIMATE TENSILE AND BEARING CAPACITY PLUS AN ADDITIONAL DISTANCE TO ENSURE PROPER EMBEDMENT. FOR THE HELICAL ANCHORS, THE EMBEDMENT LENGTH SHALL BE ACHIEVED BY CONTINUOUS ADVANCEMENT WHILE MAINTAINING OR EXCEEDING THE REQUIRED TORQUE FOR A DISTANCE OF AT LEAST THREE (3) FEET. FOR THE HELICAL PILES ON BEDROCK, THE EMBEDMENT LENGTH SHALL BE THAT REQUIRED TO ACHIEVE PRACTICAL REFUSAL.
 - FIELD MODIFICATIONS
 - FIELD WELDING, IF REQUIRED, SHALL BE IN ACCORDANCE WITH THE CODE FOR WELDING IN BUILDING CONSTRUCTION OF THE AMERICAN WELDED SOCIETY. WELDING OF GALVANIZED STEEL CAN PRODUCE TOXIC GASES AND SHOULD BE DONE IN ADEQUATE VENTILATION AND WITH APPROPRIATE GAS DETECTION, BREATHING GEAR, AND OTHER SAFETY EQUIPMENT PER OSHA REGULATIONS. MODIFICATION OF MANUFACTURED HELICAL ANCHOR AND HELICAL PILE SHAFT, HELICAL BLADES, BRACKET ASSEMBLIES, AND SHAFT CONNECTIONS IS PROHIBITED AND SHALL NOT BE PERFORMED WITHOUT APPROVAL OF PRODUCT MANUFACTURING COMPANY.
 - SUBMITTALS
 - THE INSTALLING CONTRACTOR SHALL SUPPLY THE FOLLOWING INFORMATION FOLLOWING INSTALLATION WITHIN 3 DAYS OF INSTALLATION:
 - DATE AND TIME OF INSTALLATION
 - TOTAL LENGTH OF PILE INSTALLED
 - INSTALLATION TORQUE LOG TAKEN IN ONE FOOT INCREMENTS
 - CALCULATED GEOTECHNICAL CAPACITY BASED ON ACTUAL TORSIONAL RESISTANCE.
 - TEST DATA FOR CAPACITY TESTING INCLUDING THE FOLLOWING:
 - DATE, TIME, AND DURATION OF TEST
 - LOCATION OF PILE TESTED
 - STEPS AND DURATIONS OF EACH LOAD INCREMENT
 - CUMULATIVE PILE MOVEMENT AT EACH LOAD STEP
 - METHOD OF MEASUREMENT
 - HELICAL ANCHORS AND HELICAL PILES WILL BE MEASURED ON A PER UNIT LENGTH BASIS WITH ONE UNIT EQUAL TO THE EQUIPMENT, MATERIALS, INCLUDING BRACKET ASSEMBLY, AND LABOR REQUIRED FOR PROPER INSTALLATION OF ONE LINEAL FOOT OF HELICAL ANCHOR OR HELICAL PILE AT THE REQUIRED FINAL INSTALLATION TORQUE, CAPACITY, LOCATION, ELEVATION, AND MINIMUM LENGTH SPECIFIED. STATIC LOAD CAPACITY TESTING WILL BE MEASURED ON A PER UNIT BASIS WITH ONE UNIT EQUAL TO THE EQUIPMENT, MATERIALS, INCLUDING REACTION PILES AND LOAD FRAME, AND LABOR REQUIRED FOR OBTAINING A SUCCESSFUL STATIC LOAD TEST.

SPECIAL INSPECTIONS

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.

- CONCRETE GROUT DESIGN MIX (PERIODIC)
- PLACING OF CONCRETE AND REINFORCING STEEL (CONTINUOUS OF CONCRETE SAMPLING / PERIODIC OF REINFORCING)
- BOLTS & ANCHORS EMBEDDED IN CONCRETE (PERIODIC)
- STRUCTURAL STEEL FABRICATIONS (UNLESS AISI APPROVED) (PERIODIC)
- STRUCTURAL STEEL BOLTING & WELDING (PERIODIC)
- POST INSTALLED ANCHORS IN CONCRETE (CONTINUOUS)
- IN-SITU SOILS, EXCAVATIONS, FILLING & COMPACTION (PERIODIC)
- MASONRY AND REINFORCING STEEL (CONTINUOUS ON CELL GROUTING / PERIODIC ON REINFORCING)

THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.

DESIGN DATA		
2018 INTERNATIONAL BUILDING CODE / ASCE 7-16		
BUILDING OCCUPANCY CATEGORY		IV
ROOF LOADS		
LIVE LOAD		20
ROOF MEMBRANE		2
RIGID INSULATION		6
20 GA METAL DECK		4
STEEL BAR JOISTS		3
SPRINKLERS		3
MECHANICAL ALLOWANCE		4
FUTURE SOLAR		5
TOTAL		47 lbs/sqft
ELEVATED FLOOR LOAD		
LIVE LOAD		100
FLOOR SLAB & DECK		45
INSULATION/CEILING		5
STEEL BEAMS		4
SPRINKLERS		3
MECHANICAL ALLOWANCE		3
TOTAL		160 lbs/sqft
ROOF SNOW LOAD*	(UNBALANCED & DRIFTING SNOW TO BE DETERMINED IN ADDITION TO UNIFORM LOAD, WHERE APPLICABLE)	
R _s *		20 lbs/sqft
C _s *		10
L _s *		12
C _e *		10
R _s *		16.9 lbs/sqft
BASIC DESIGN WIND LOAD		
V =		120 MPH (3-SECOND GUST)
EXPOSURE		C
INTERNAL PRESSURE COEFFICIENT =		+ 0.85
COMPONENTS & CLADDING WIND (TO FTF)		+41 lbs/sqft
EARTHQUAKE DESIGN DATA		
S _{ps} *		0.93
S _{1p} *		0.06
S _{2p} *		0.206
S _{wp} *		0.89
SITE CLASS D (ASSUMED)		
L _s =		15
DESIGN CATEGORY D		
BASIC SEISMIC-FORCE-RESISTING SYSTEM =		
INTERMEDIATE REINFORCED MASONRY SHEAR WALLS		
R =		3.5
Ω _e =		2.5
C _s =		2.25
EQUIVALENT LATERAL FORCE PROCEDURE		
V =		0.68W
NET ALLOWABLE SOIL BEARING		1500 lbs/sqft*

INDEX OF SHEETS	
COVER / GENERAL STRUCTURAL DATA	S-100
FOUNDATION PLAN	S-200
FOUNDATION DETAILS	S-210
2ND FLOOR / LOW ROOF FRAMING PLAN	S-300
FRAMING DETAILS	S-310 - S-311
ELEVATOR ROOF-FRAMING PLAN & DETAILS	S-400

STATE OF MISSOURI
MICHAEL L. PARSON,
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PROJECT No. T2211-01

SITE No. 6300

ASSET No. 8136300012

REVISION:

DATE:

REVISION:

DATE:

REVISION:

DATE:

ISSUE DATE: 12/22/2023

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CHECKED BY: _____

DESIGNED BY: _____

SHEET TITLE:

GENERAL
STRUCTURAL DATA

SHEET NUMBER:

S-100

SHEET 17 OF 29

ISSUE DATE: 12/22/2023

NOTE:
 ALL DIMENSIONS ARE FROM FACE OF FOUNDATION WALL OR FRAMING;
 EDGE OF SLAB OR TRUSS/RAFTER; OR CENTERLINE
 OF COLUMN, BEAM, OR JOIST UNLESS NOTED OTHERWISE.

FOUNDATION NOTES

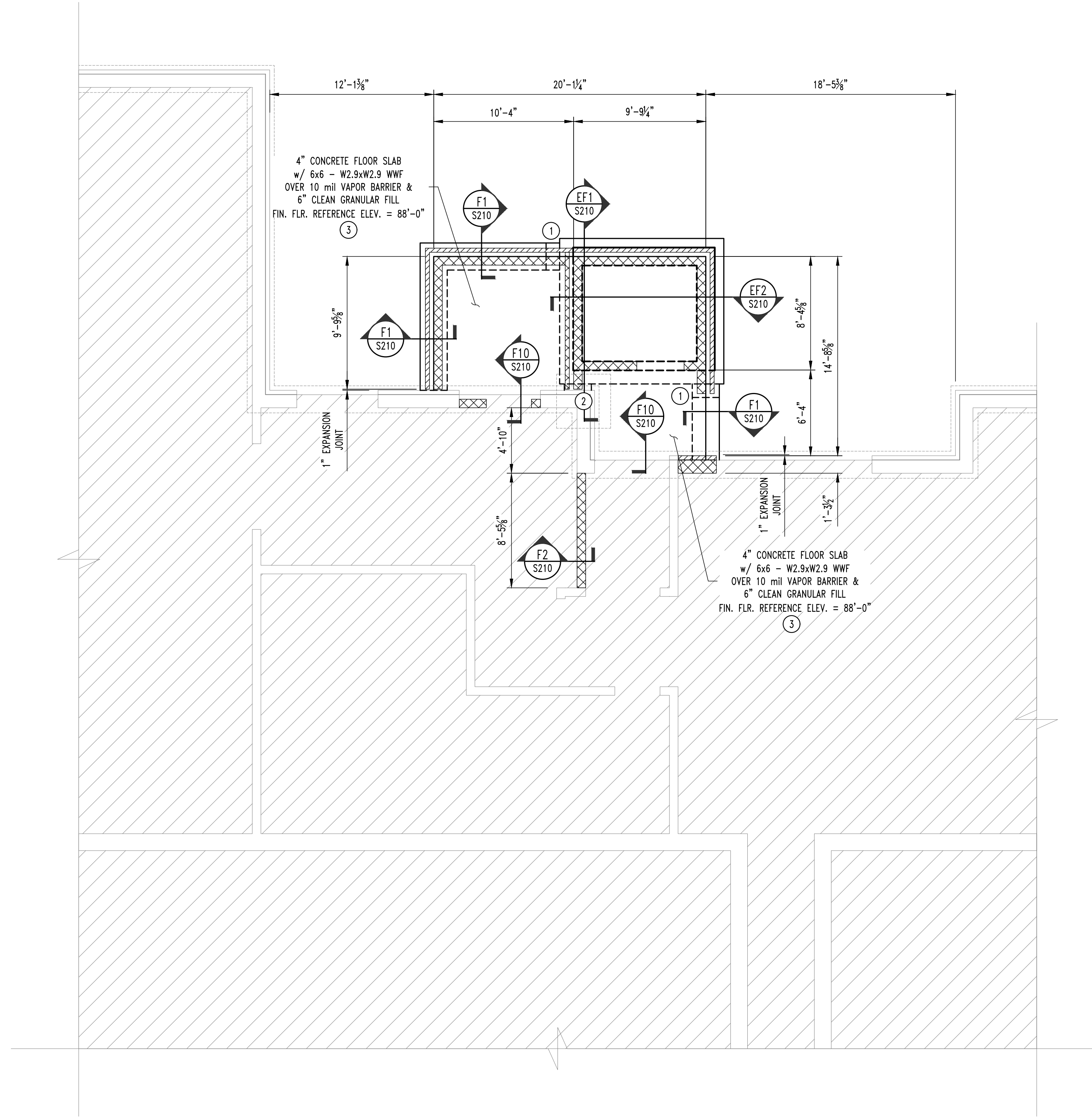
- ① FOOTING STEP. REFER TO FS1/S210.
- ② HELICAL OR PUSH PIERS REQUIRED TO STABILIZE EXISTING FOUNDATION WHILE ELEVATOR PIT IS EXCAVATED. COLUMN LOAD = 56K @ THIS LOCATION.
- ③ FIELD VERIFY EXISTING ELEVATION PRIOR TO CONSTRUCTION.

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 ISSUE DATE: 12/22/2023

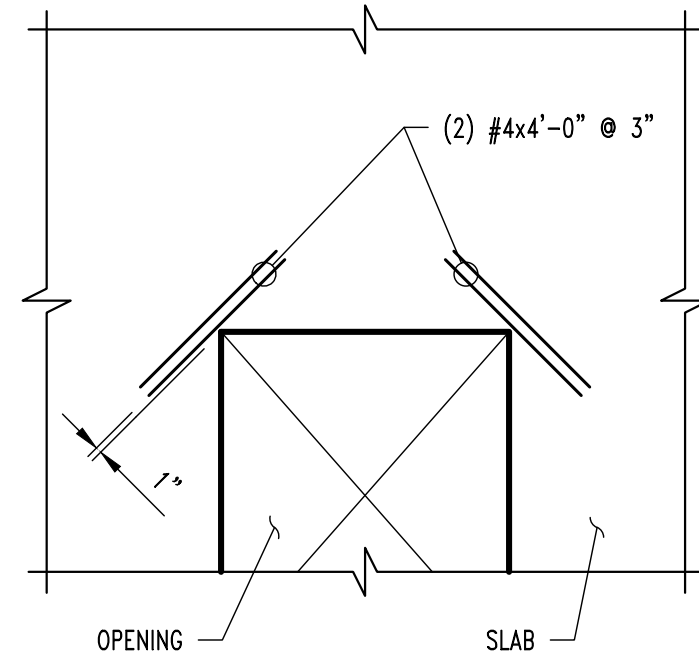
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 DRAWN BY: _____
 CHECKED BY: _____
 DESIGNED BY: _____

SHEET TITLE:
 FOUNDATION
 PLAN

SHEET NUMBER:
S-200
 SHEET 18 OF 29
 ISSUE DATE: 12/22/2023

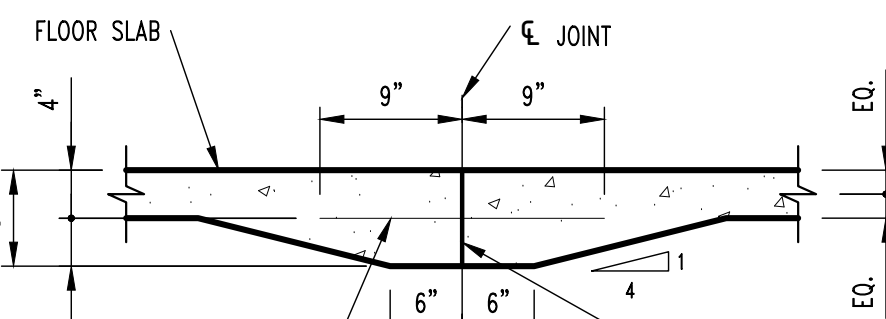
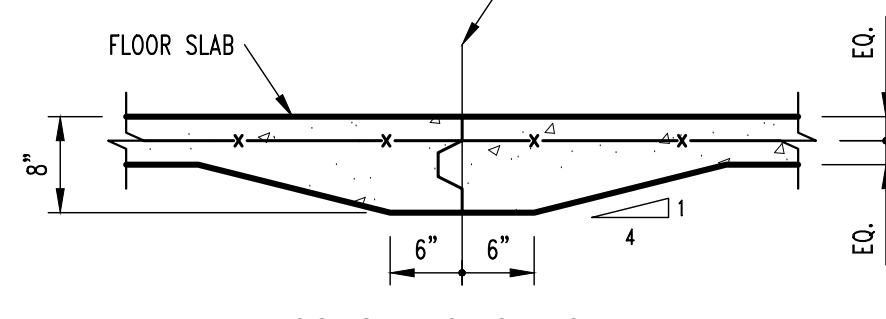
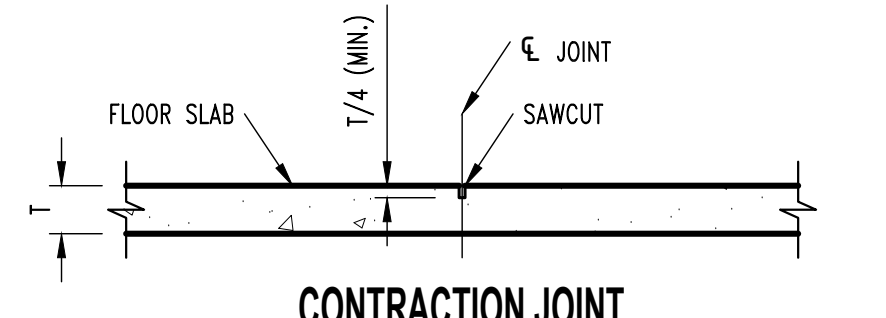
1
 S200
FOUNDATION PLAN
 SCALE: 3/16" = 1'-0"
 PLAN NORTH

NOTE:
REFER TO FOOTING SCHEDULE ON SHEET S200
FOR "W", "D", AND "REINFORCING" INFORMATION.



NOTE:
TYPICAL AT ALL REENTRANT CORNERS FOR
SLAB-ON-GRADE & STRUCTURAL SLAB.
REINFORCING TO BE CENTERED IN SLAB THICKNESS.

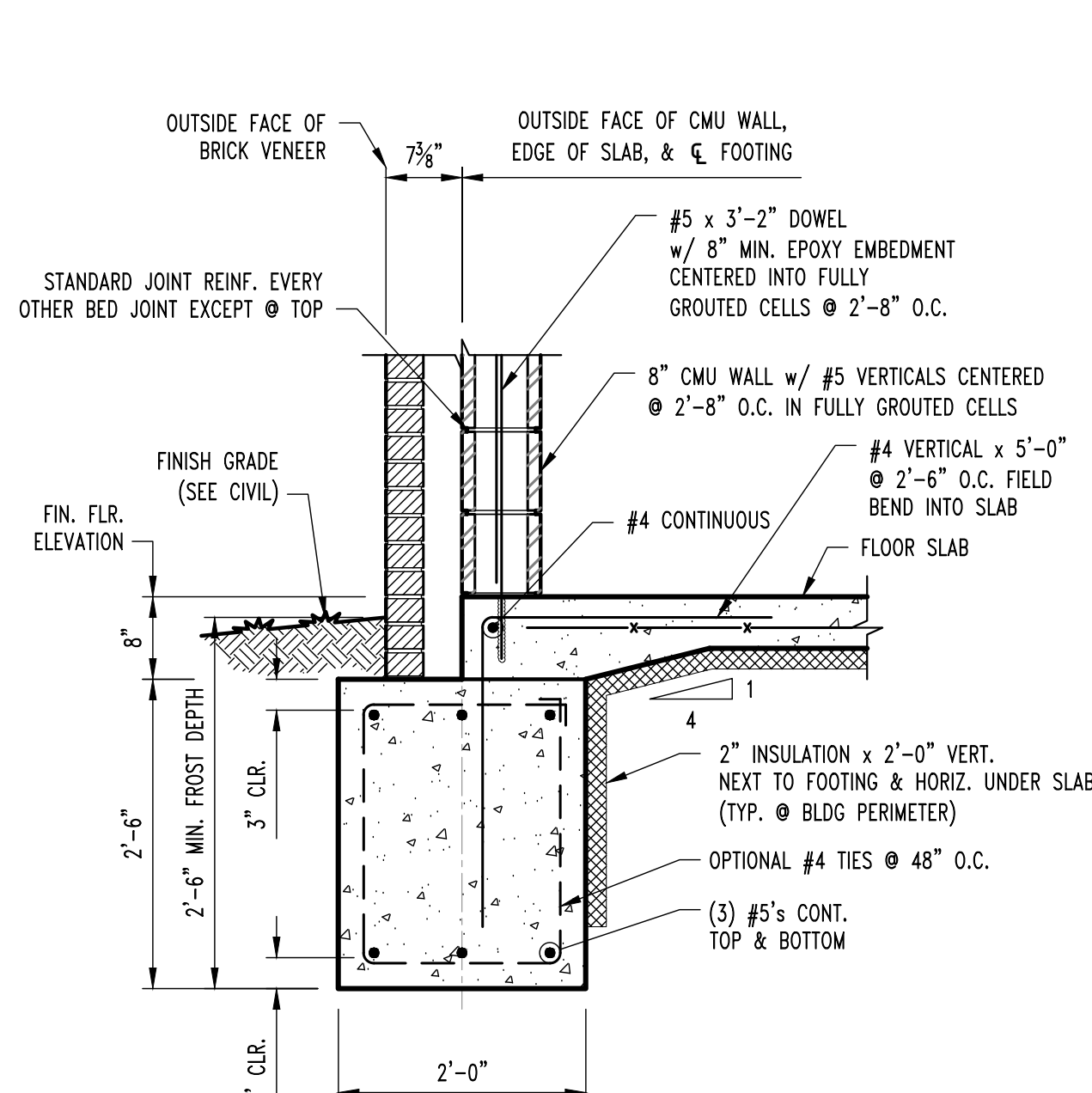
CRACK CONTROL REINFORCING



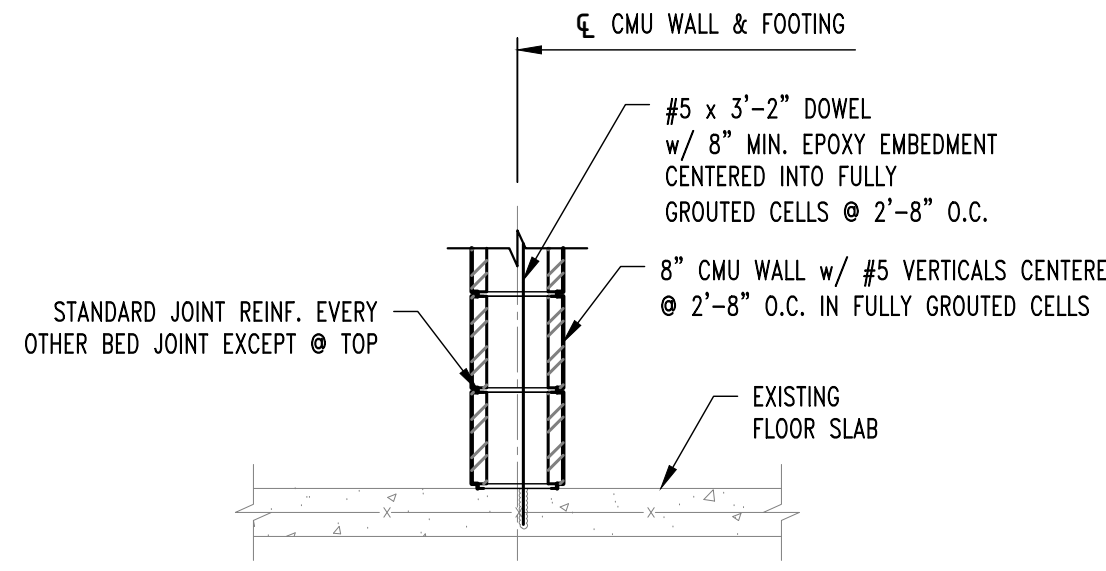
$\frac{3}{4}$ " ϕ SMOOTH DOWEL BAR x
1'-6" ϕ 1'-8" O.C.
(GREASE ONE END ONLY)

APPLY BOND BREAKER
TO EDGE OF SLAB
CAST FIRST

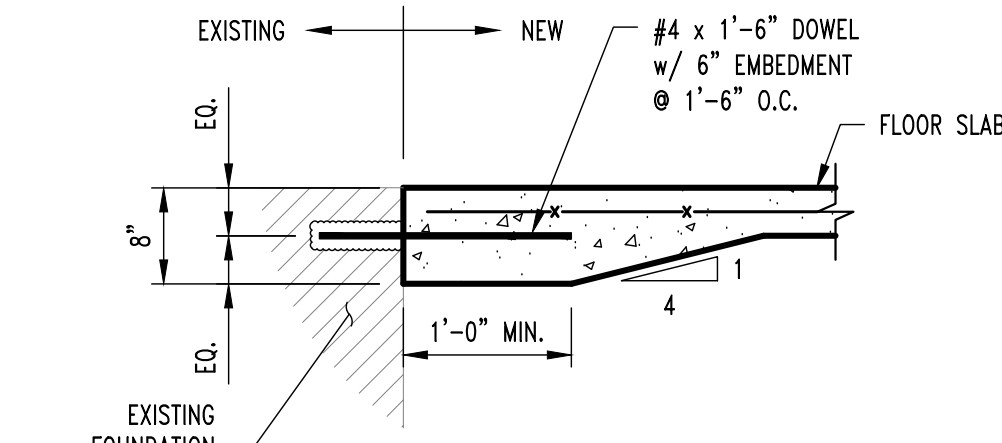
CONSTRUCTION JOINT



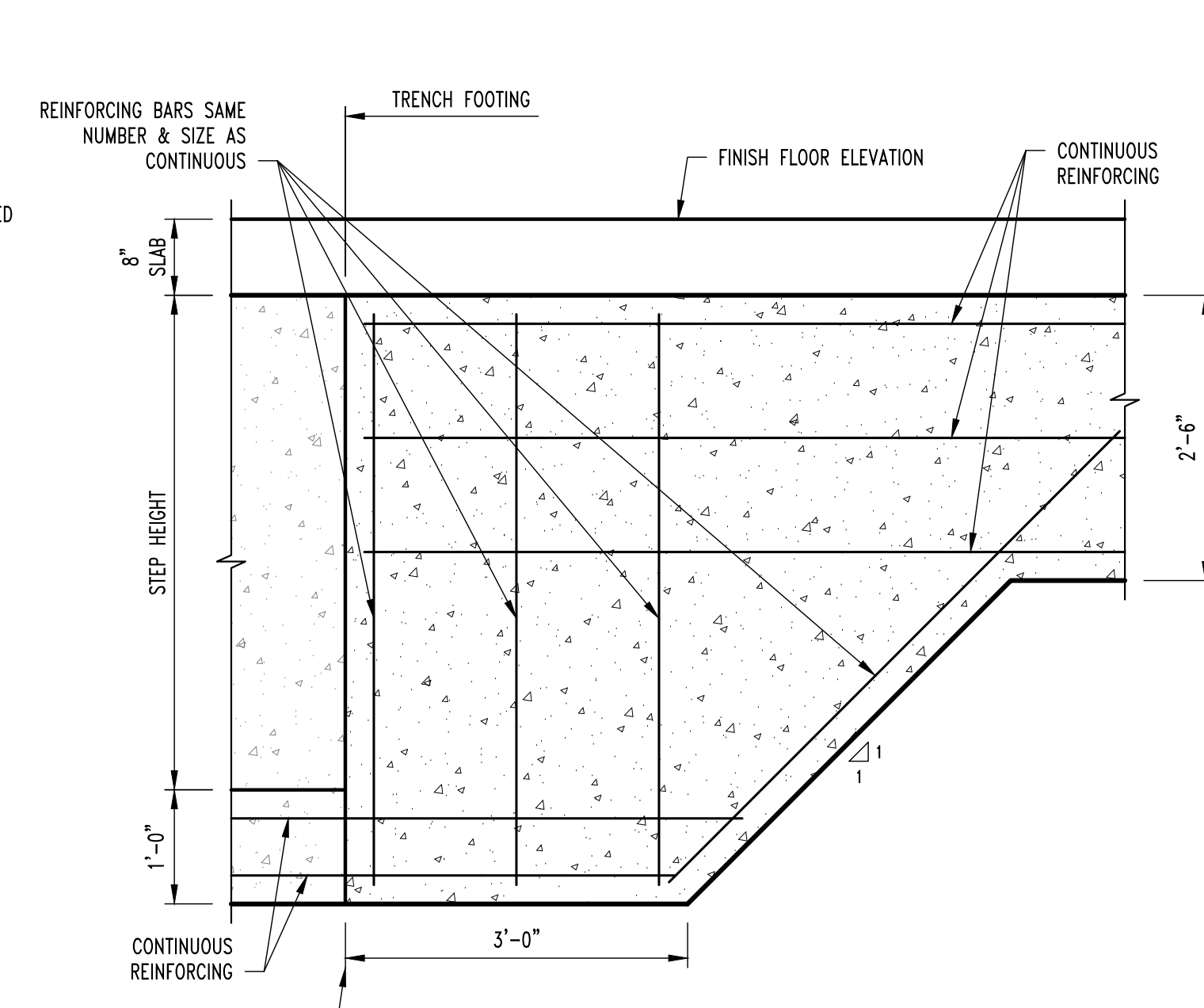
F1 S200 CONTINUOUS FOOTING SECTION
SCALE: $\frac{3}{4}$ " = 1'-0"



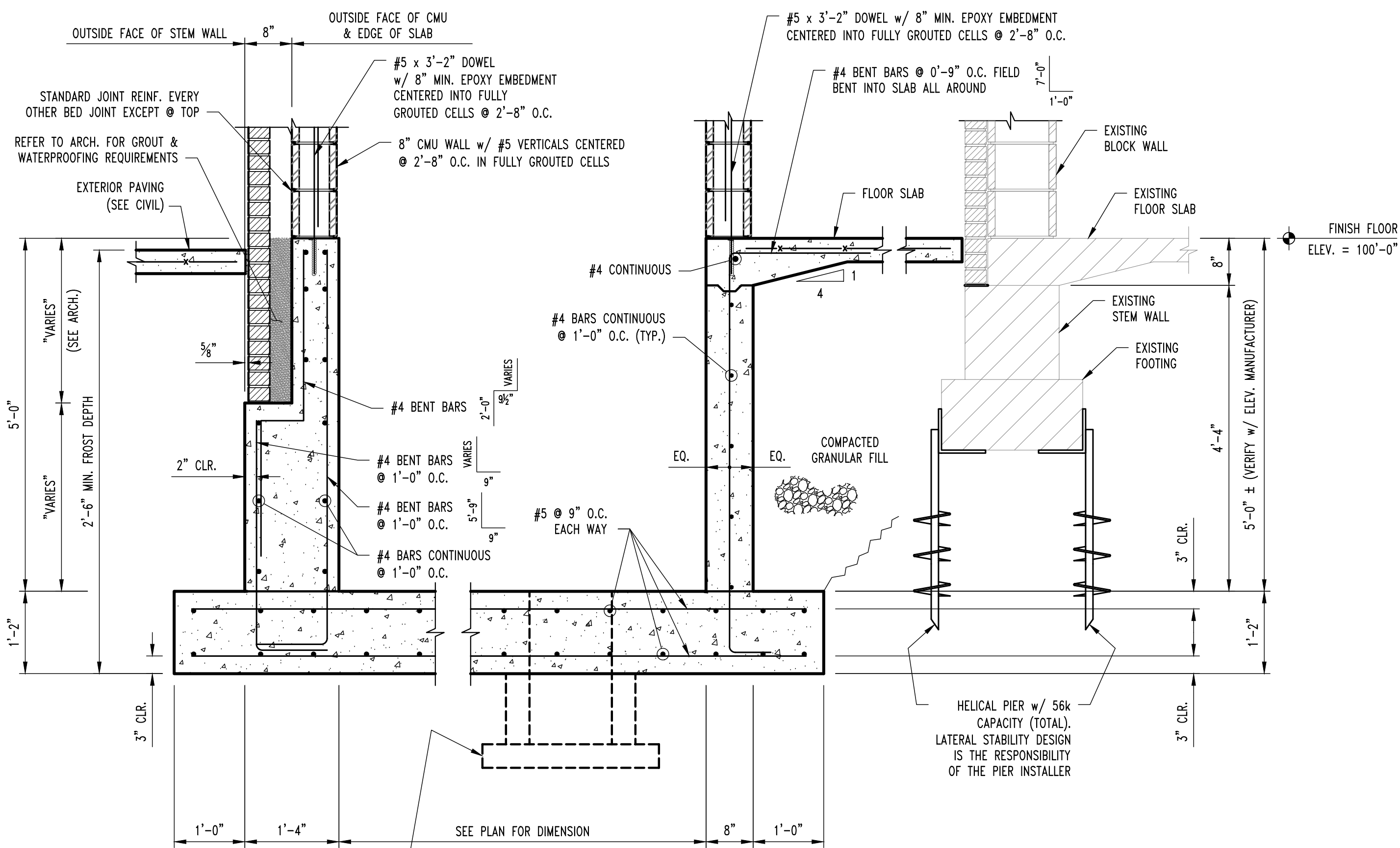
F2 S200 NON-BRG. WALL @ EXISTING SLAB SECTION
SCALE: $\frac{3}{4}$ " = 1'-0"



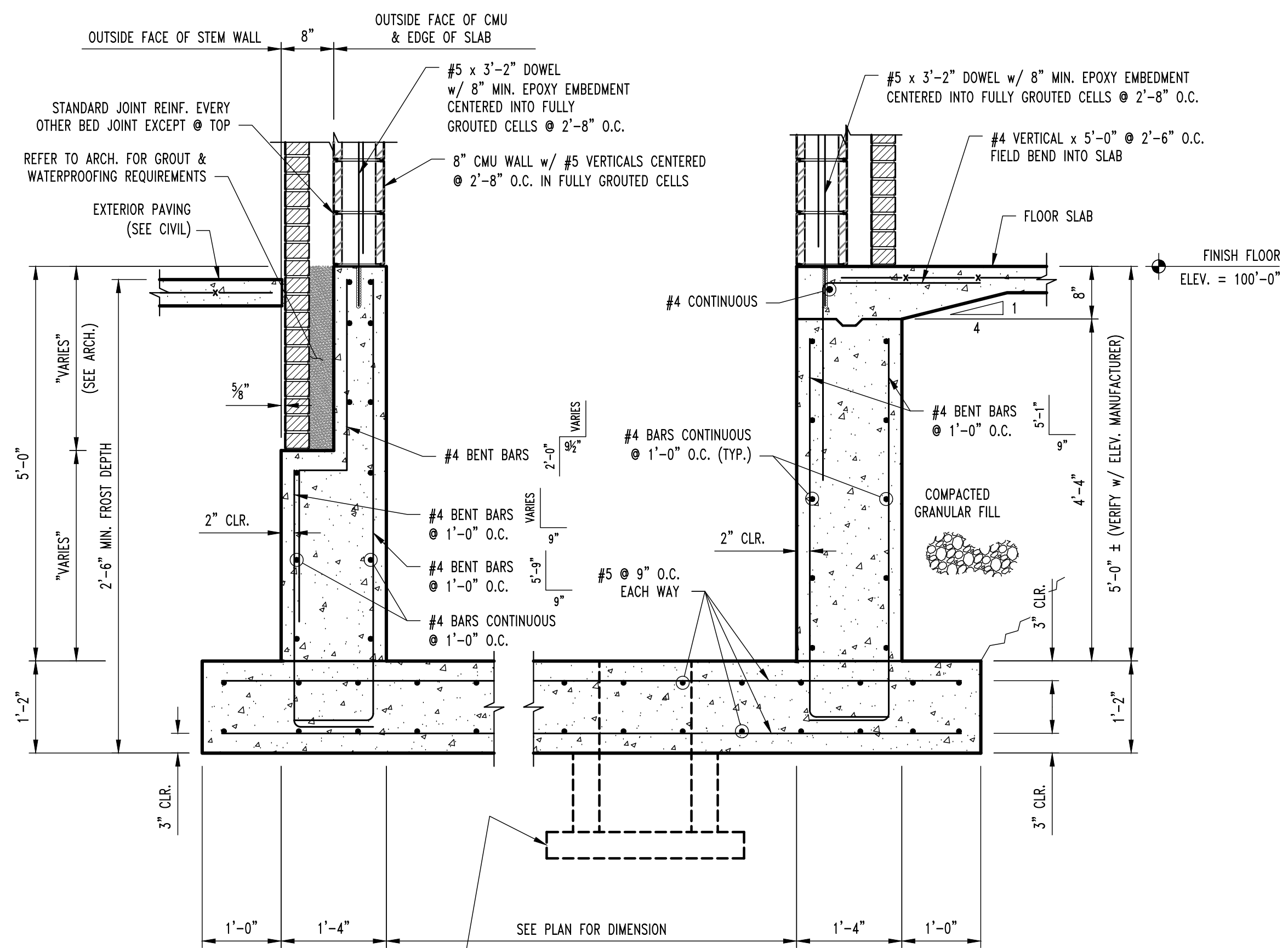
F10 S200 SLAB @ EXISTING FOUNDATION
SCALE: $\frac{3}{4}$ " = 1'-0"



F51 S200 ELEVATOR PIT SECTION
SCALE: $\frac{3}{4}$ " = 1'-0"



EF1 S200 ELEVATOR PIT SECTION
SCALE: $\frac{3}{4}$ " = 1'-0"



EF2 S200 ELEVATOR PIT SECTION
SCALE: $\frac{3}{4}$ " = 1'-0"



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SITE No. 6300
ASSET No. 8136300012

REVISION:
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DATE:
REVISION:
DATE:
ISSUE DATE: 12/22/2023

CAD DWG FILE:

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CHECKED BY:
DESIGNED BY:

SHEET TITLE:

FOUNDATION
DETAILS

SHEET NUMBER:

S-210

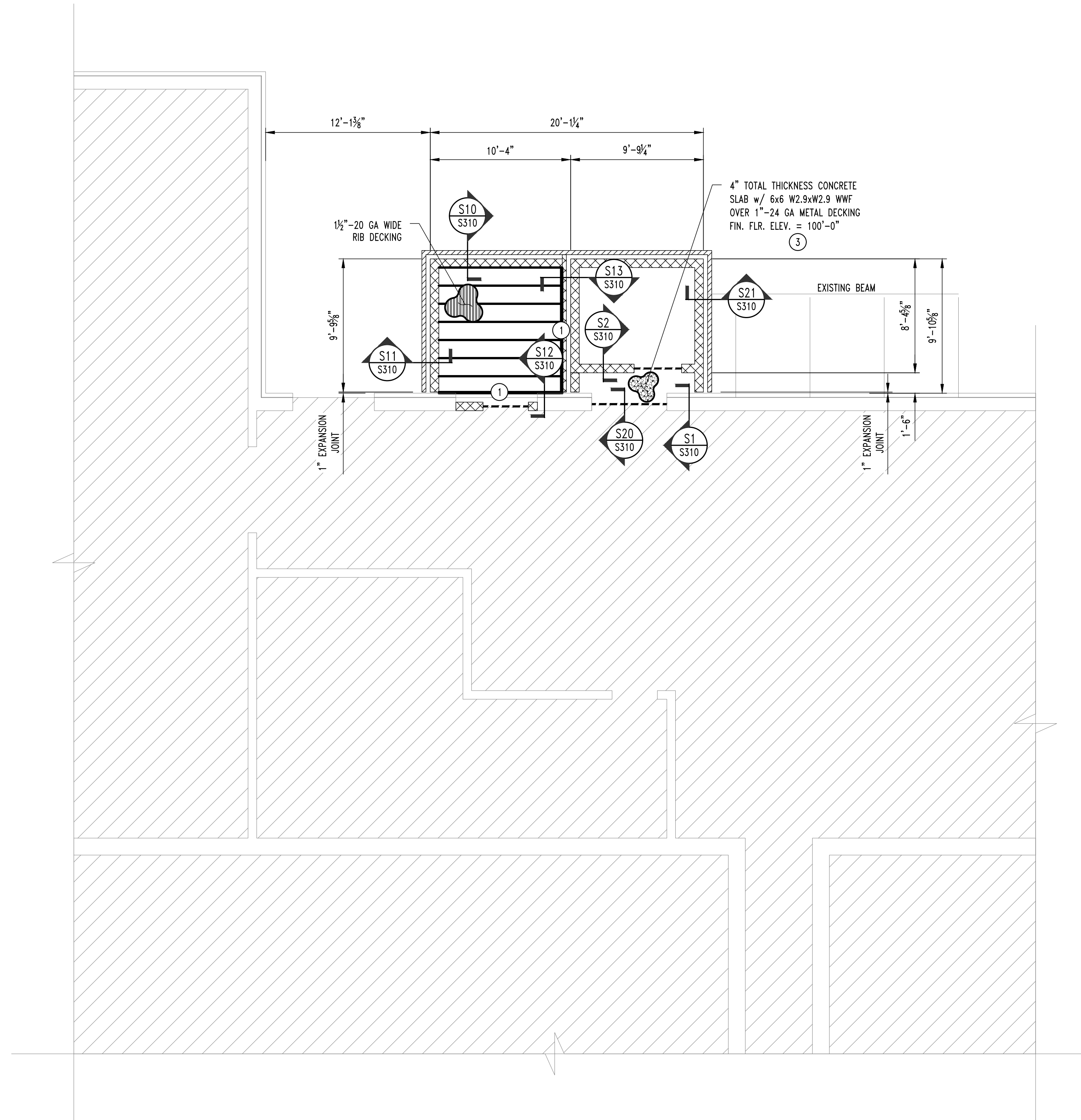
SHEET 19 OF 29

ISSUE DATE: 12/22/2023

NOTE:
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 EDGE OF SLAB OR TRUSS/RAFTER; OR CENTERLINE
 OF COLUMN, BEAM, OR JOIST UNLESS NOTED OTHERWISE.

FRAMING NOTES

- ① BACK-TO-BACK 800S250-97 (8"x2½"-12GA) BEAM. SEE DETAILS FOR ATTACHMENT.
- ② CONTINUOUS PERIMETER ANGLE L4x4x¼. SEE SECTION FOR LOCATION OF HOLES & STUDS.
- ③ FIELD VERIFY ELEVATION PRIOR TO CONSTRUCTION.



1 S300 **2ND FLOOR/LOW ROOF FRAMING PLAN** PLAN NORTH
 SCALE: 3/16" = 1'-0"

STATE OF MISSOURI
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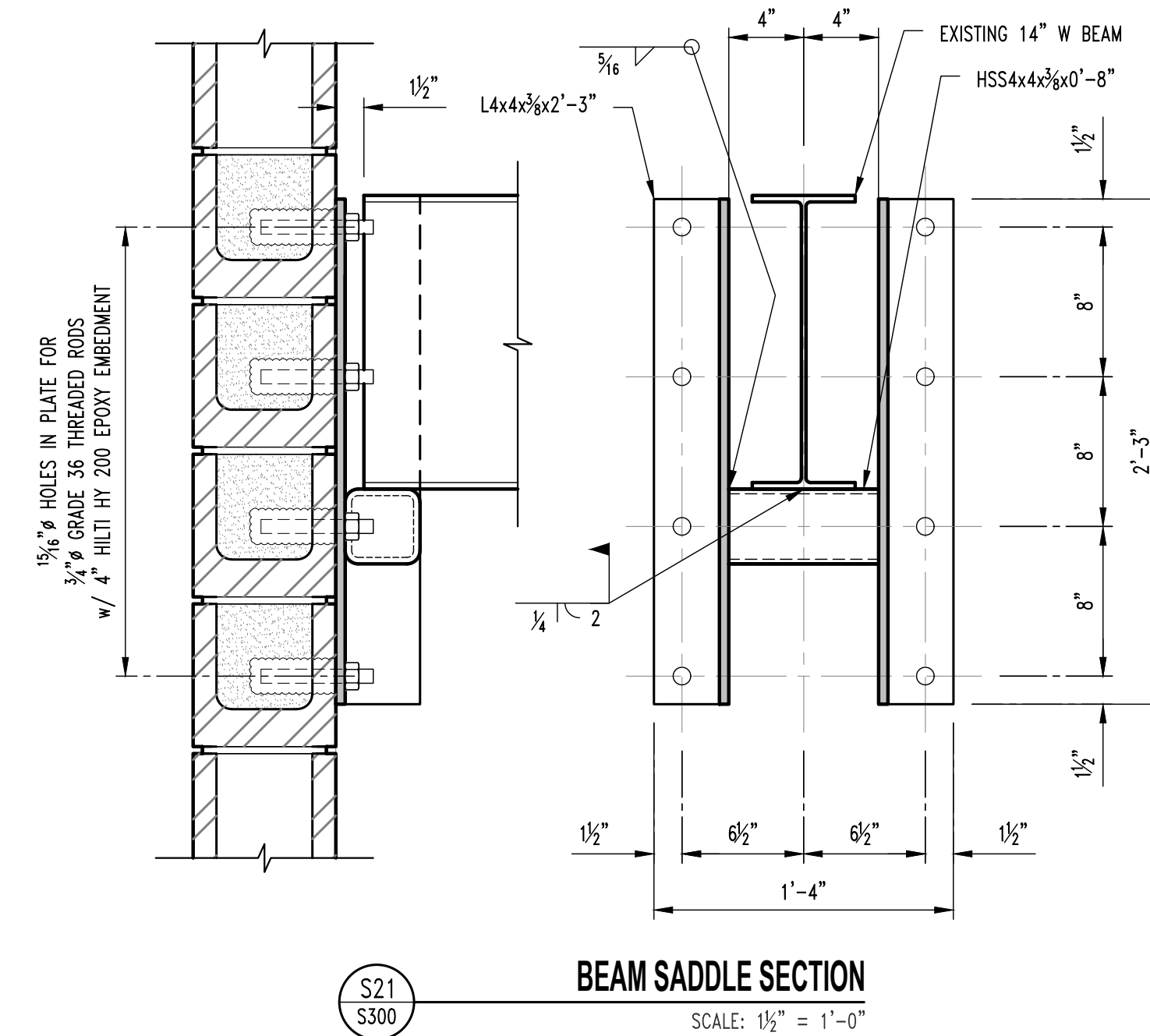
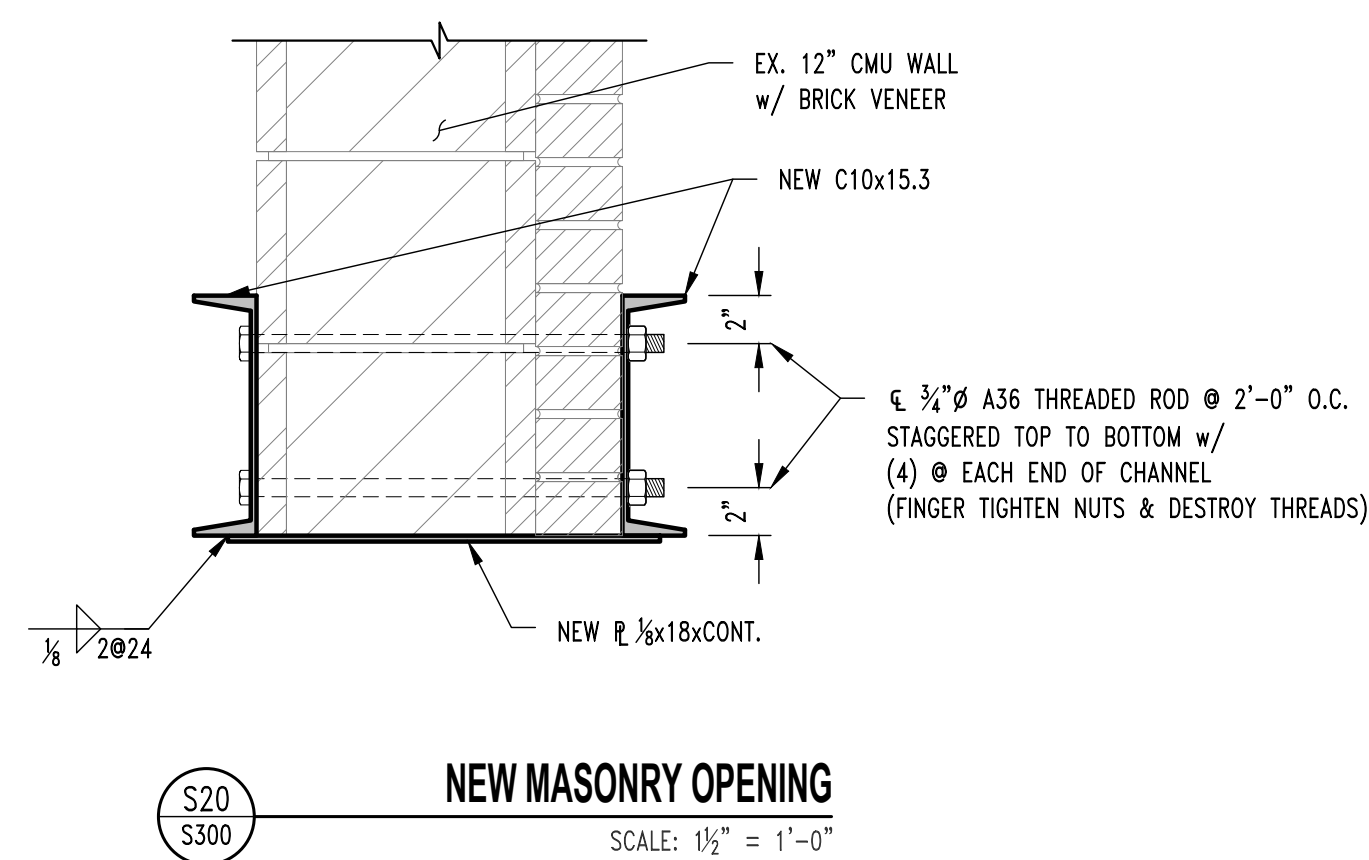
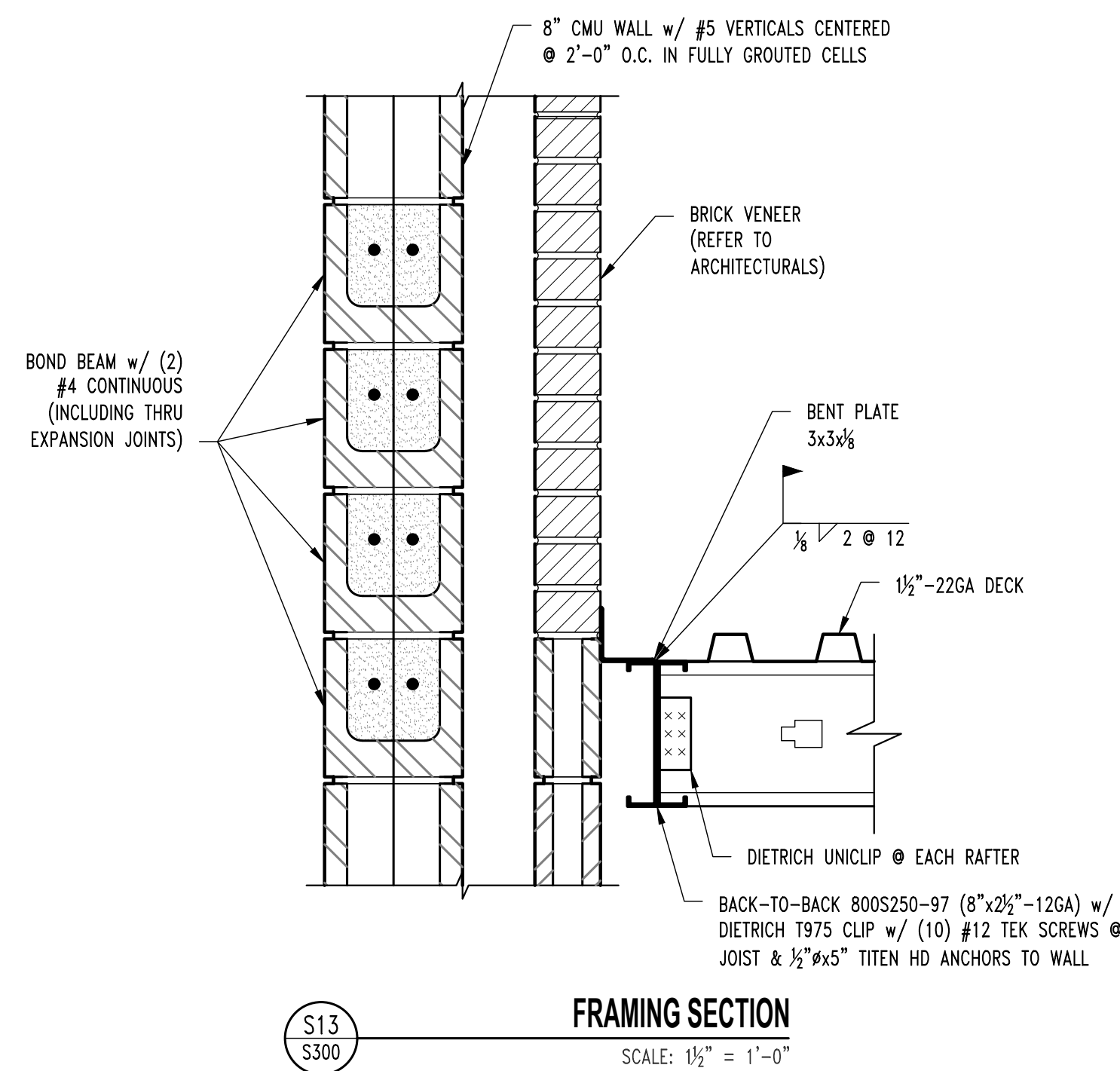
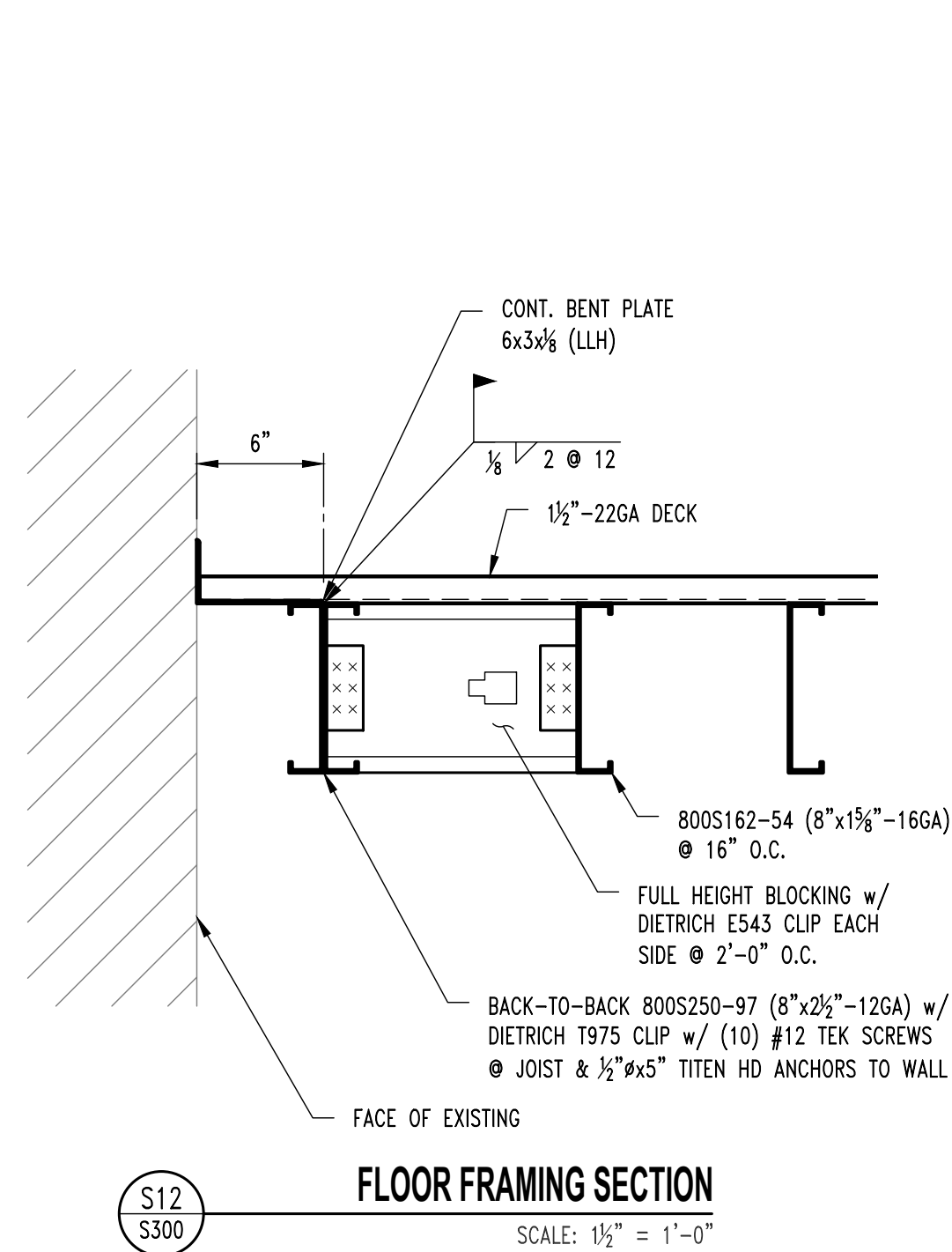
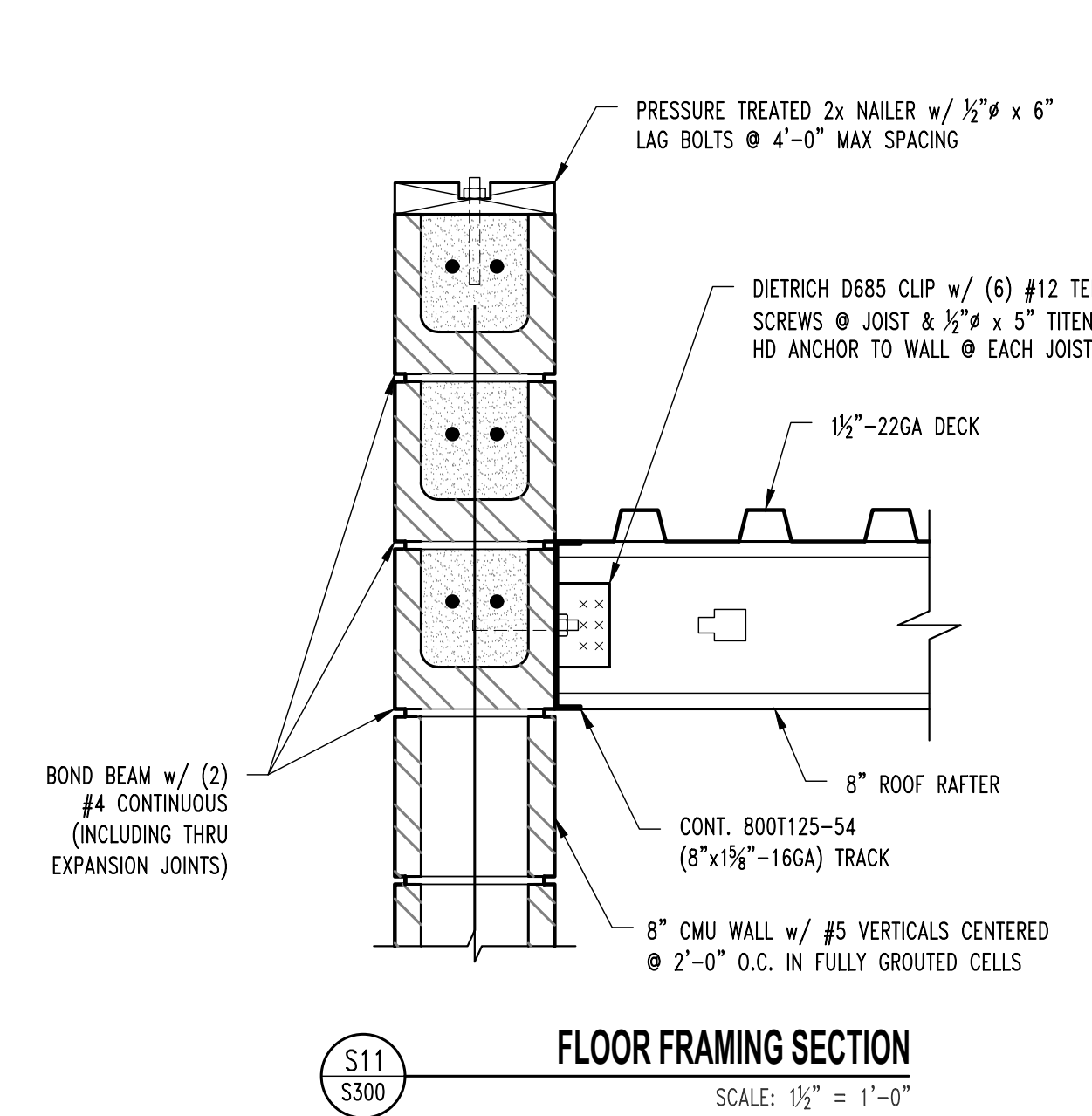
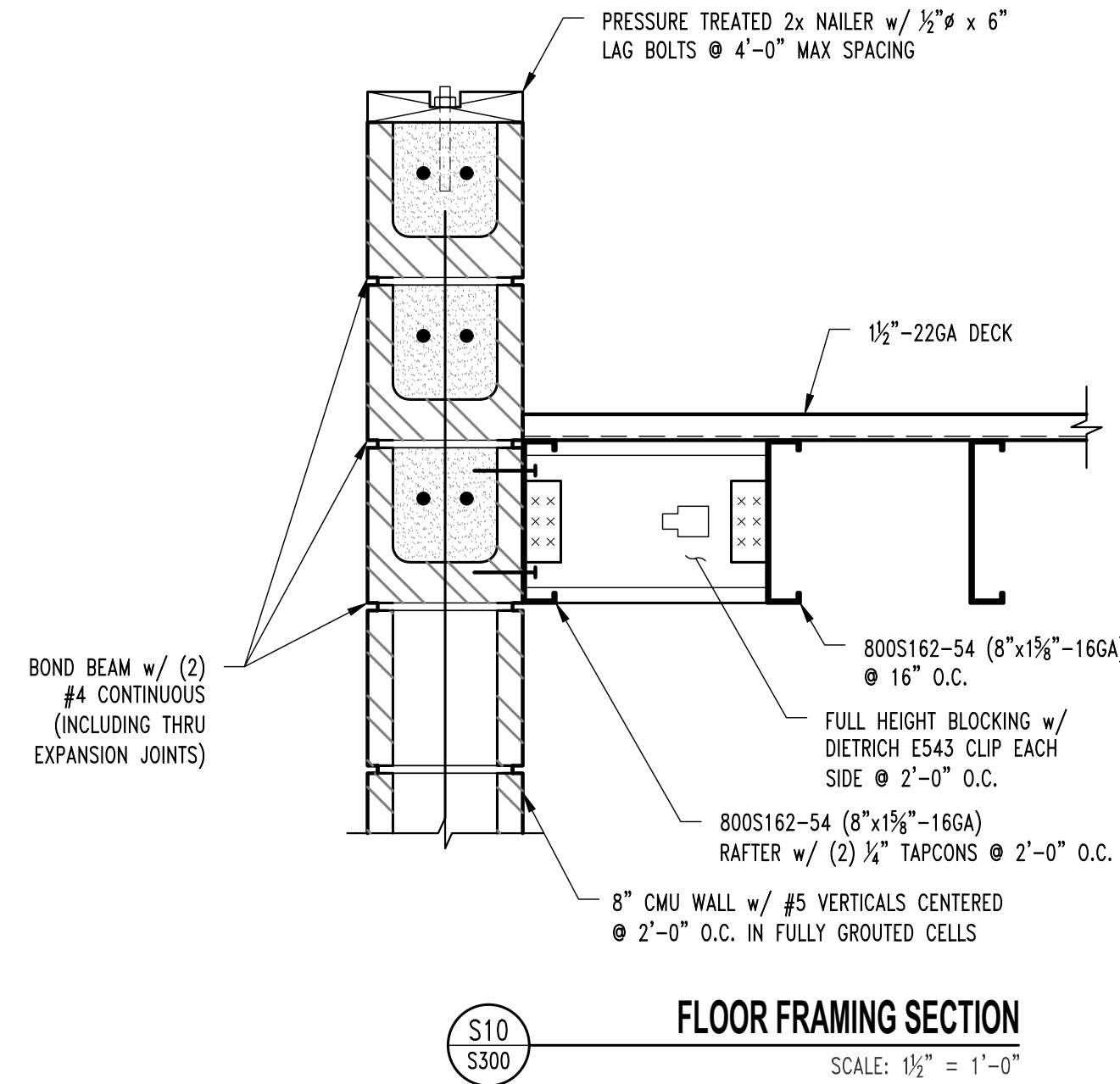
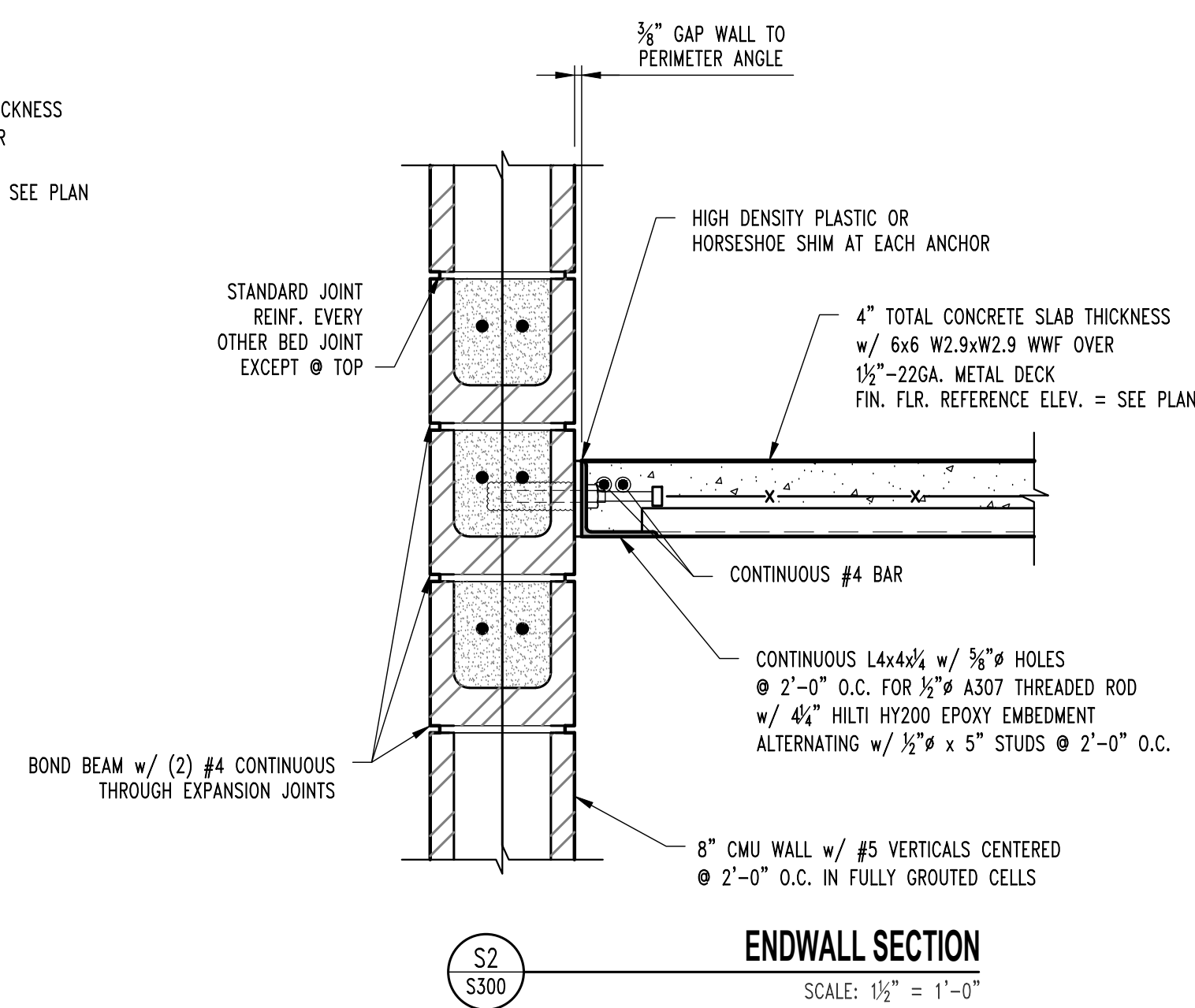
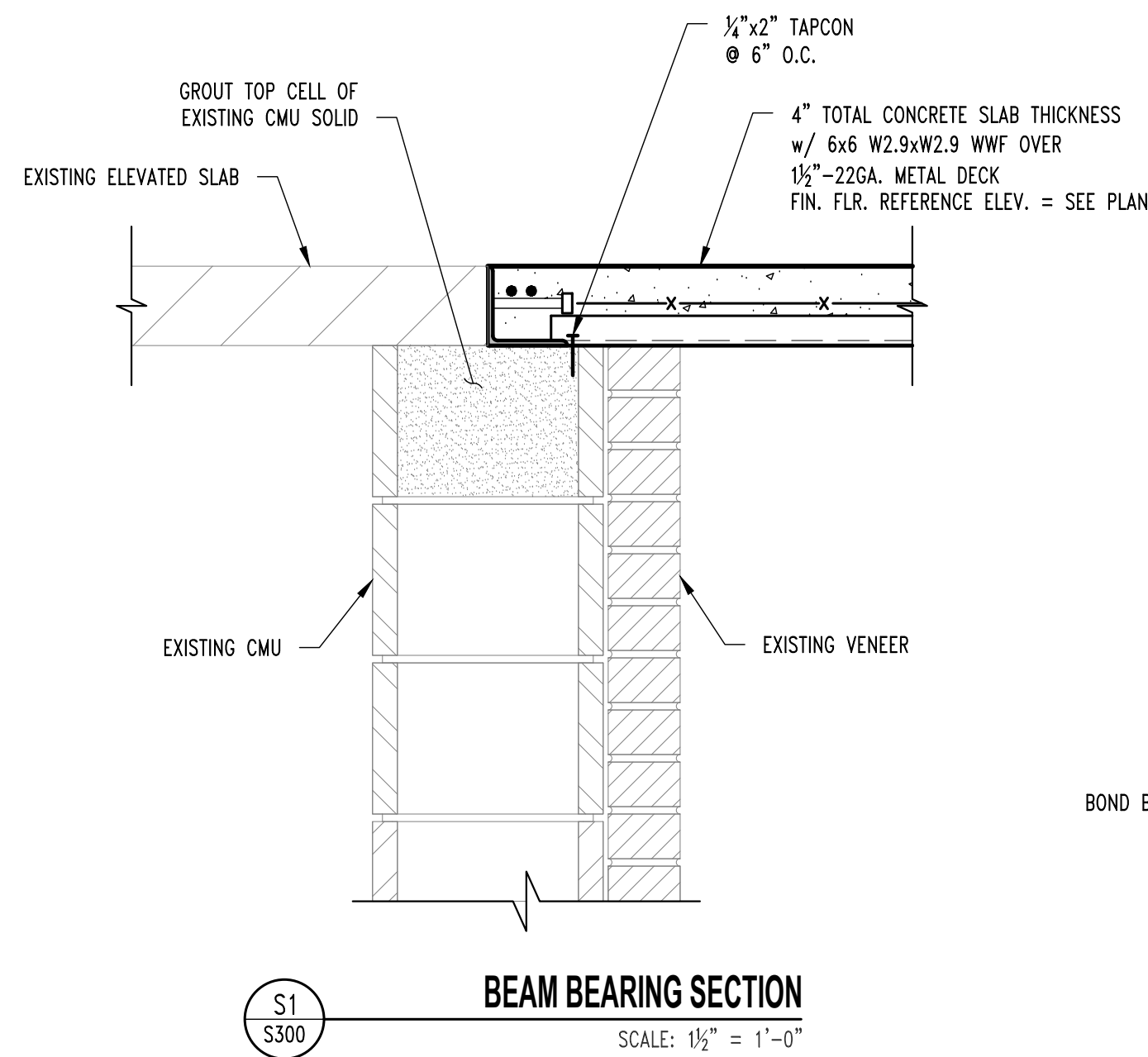
2ND FLOOR / LOW
 ROOF FRAMING PLAN

SHEET NUMBER:

S-300

SHEET 20 OF 29

ISSUE DATE: 12/22/2023



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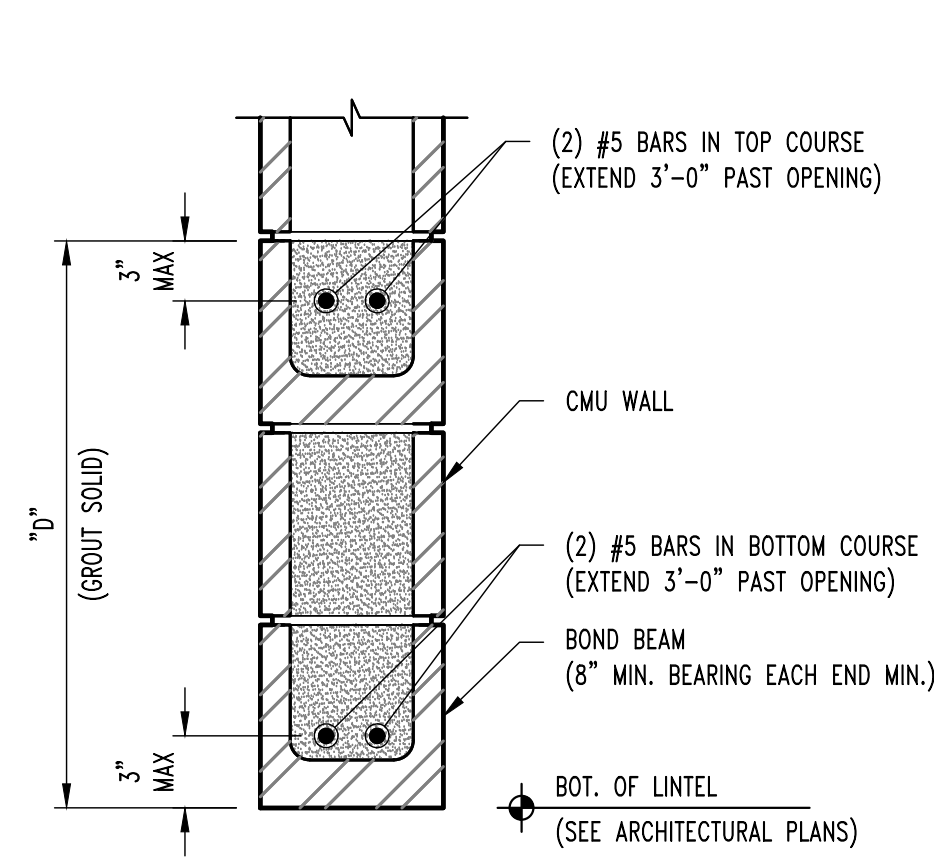
FRAMING
DETAILS

SHEET NUMBER:

S-310

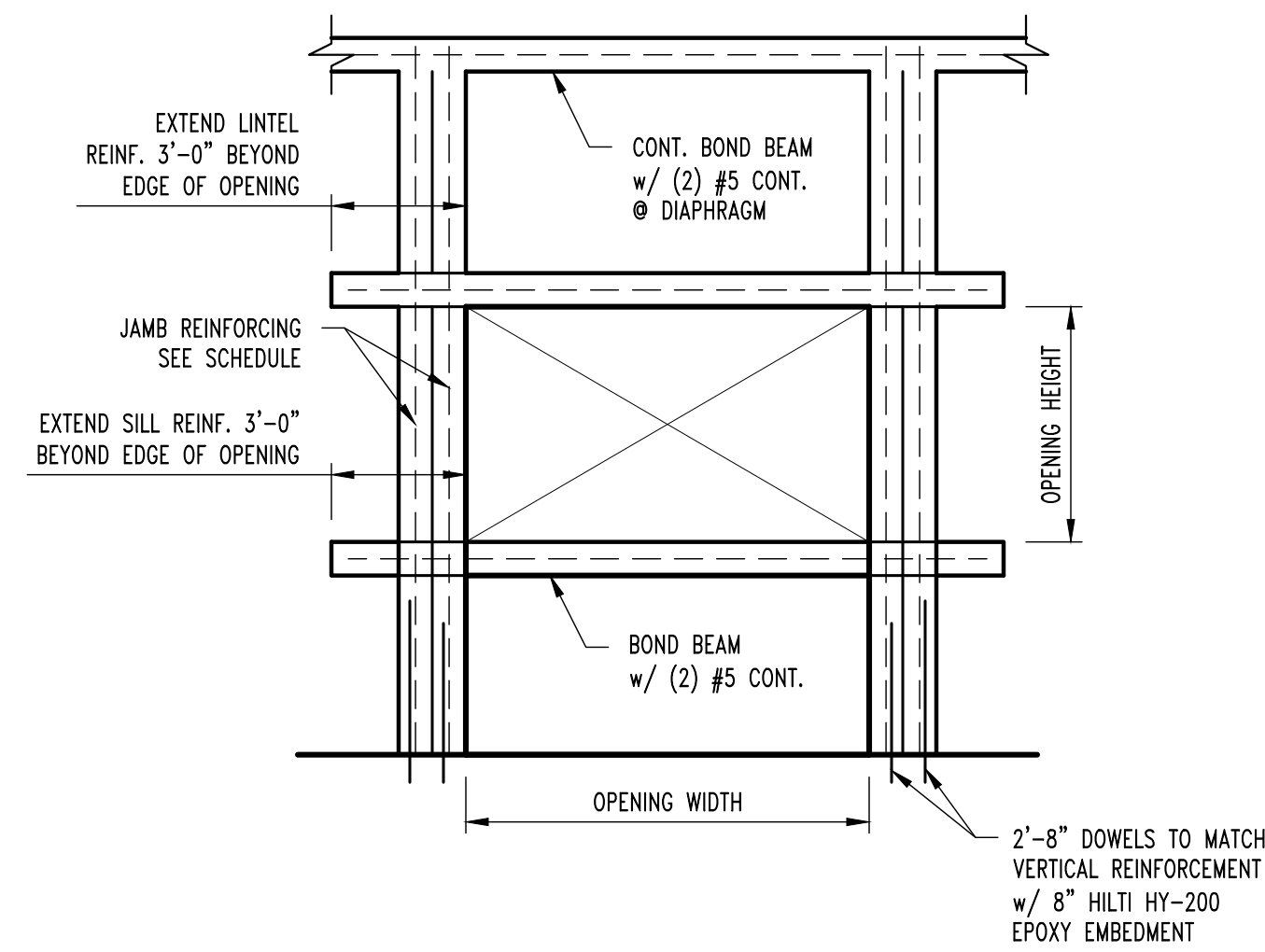
SHEET 21 OF 29

ISSUE DATE: 12/22/2023

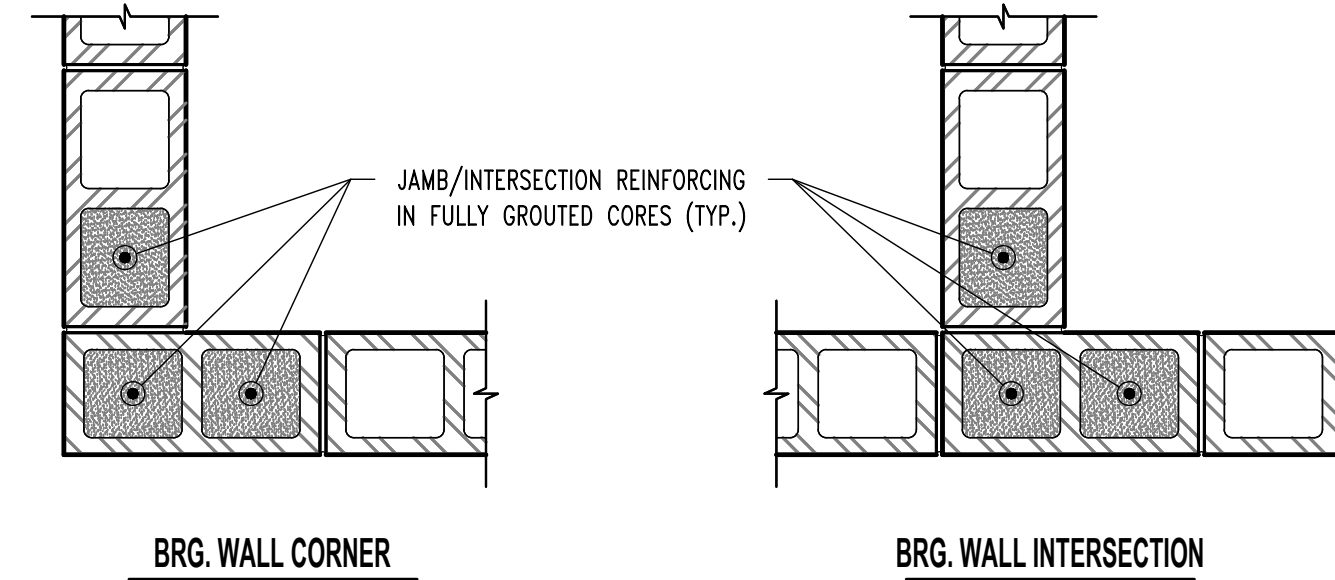


NOTE:
REFER TO FRAMING PLANS FOR CMU
LINTEL AT CANOPY LOCATIONS.

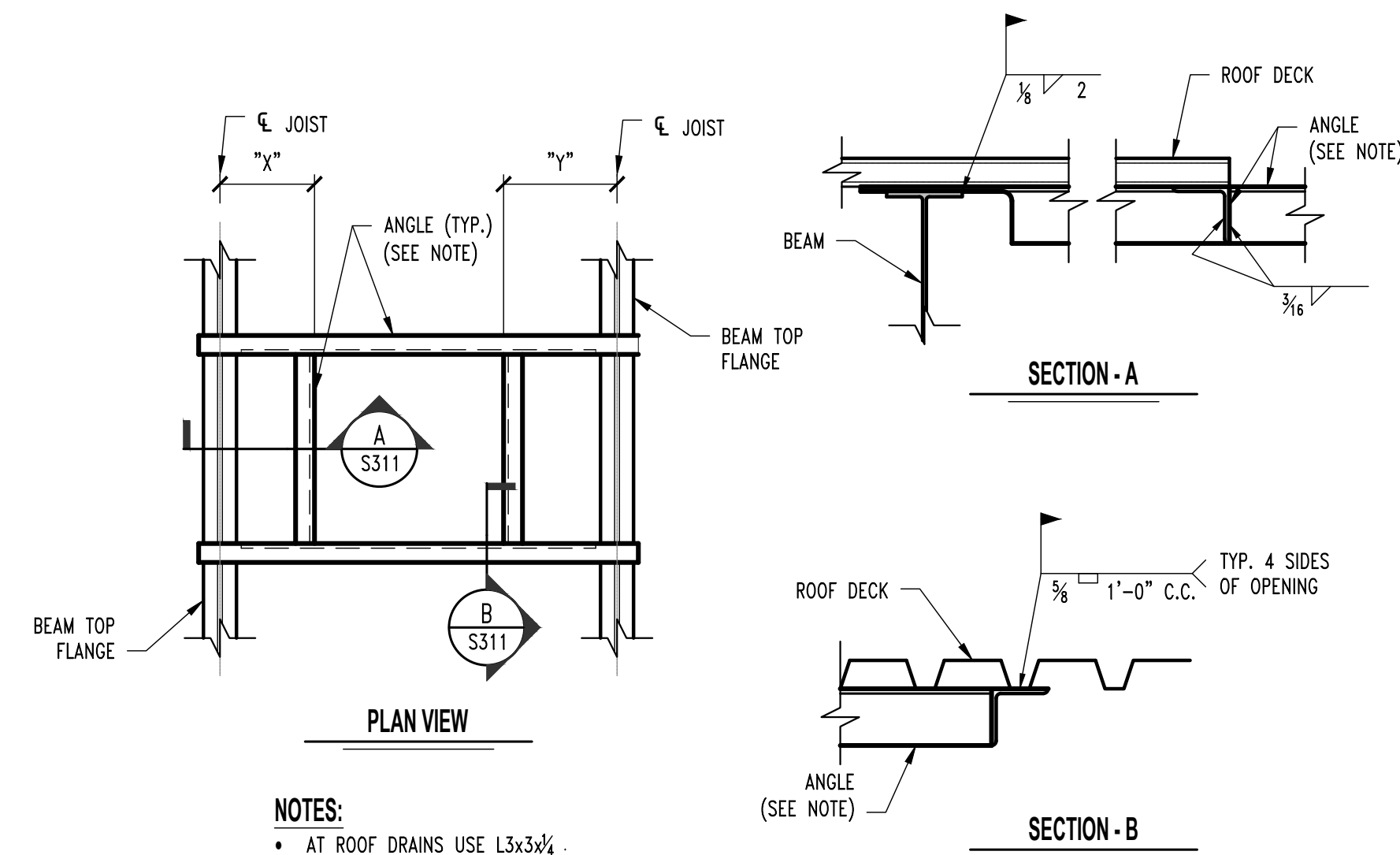
TYPICAL CMU LINTEL DETAIL



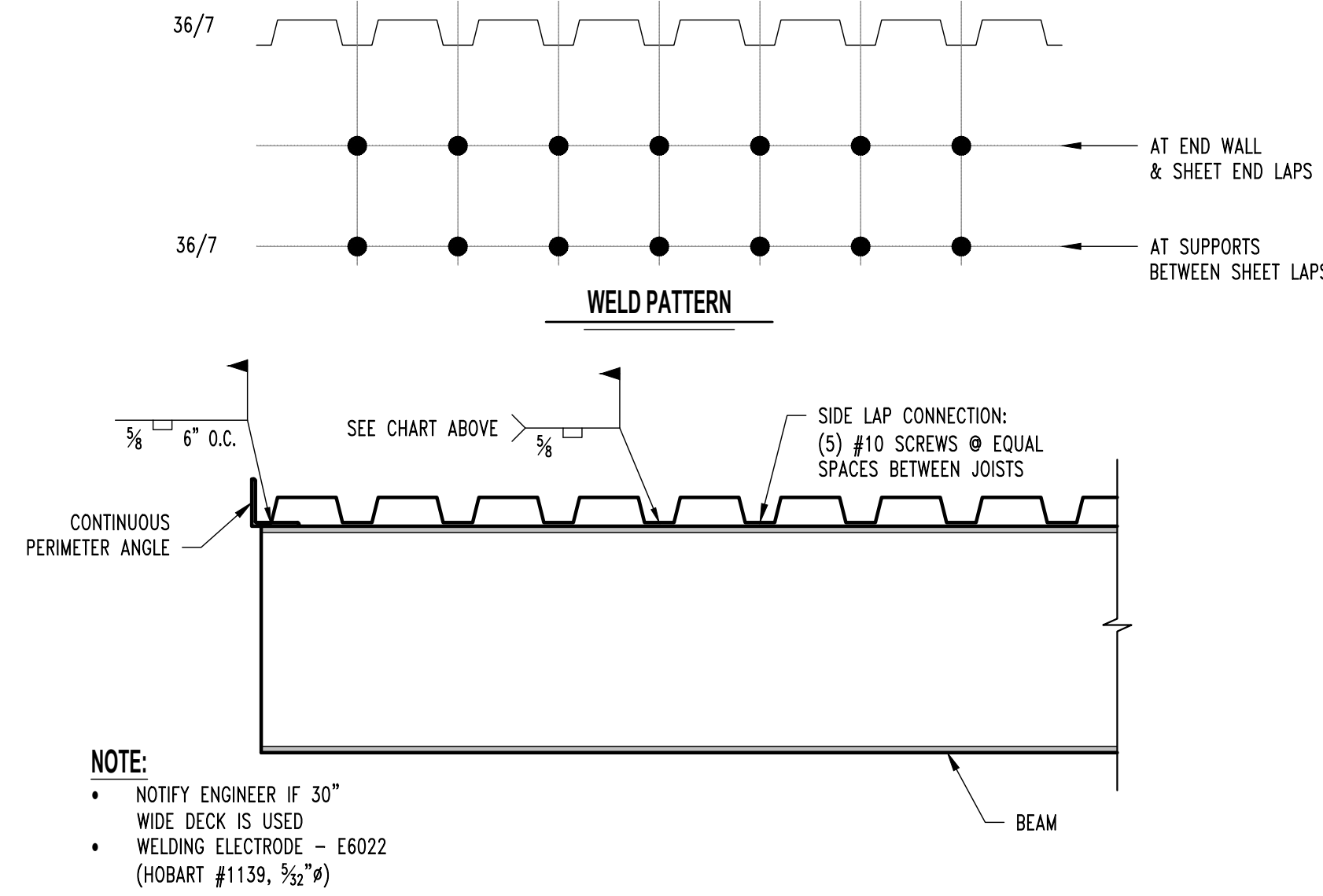
TYPICAL MASONRY OPENING REINFORCEMENT



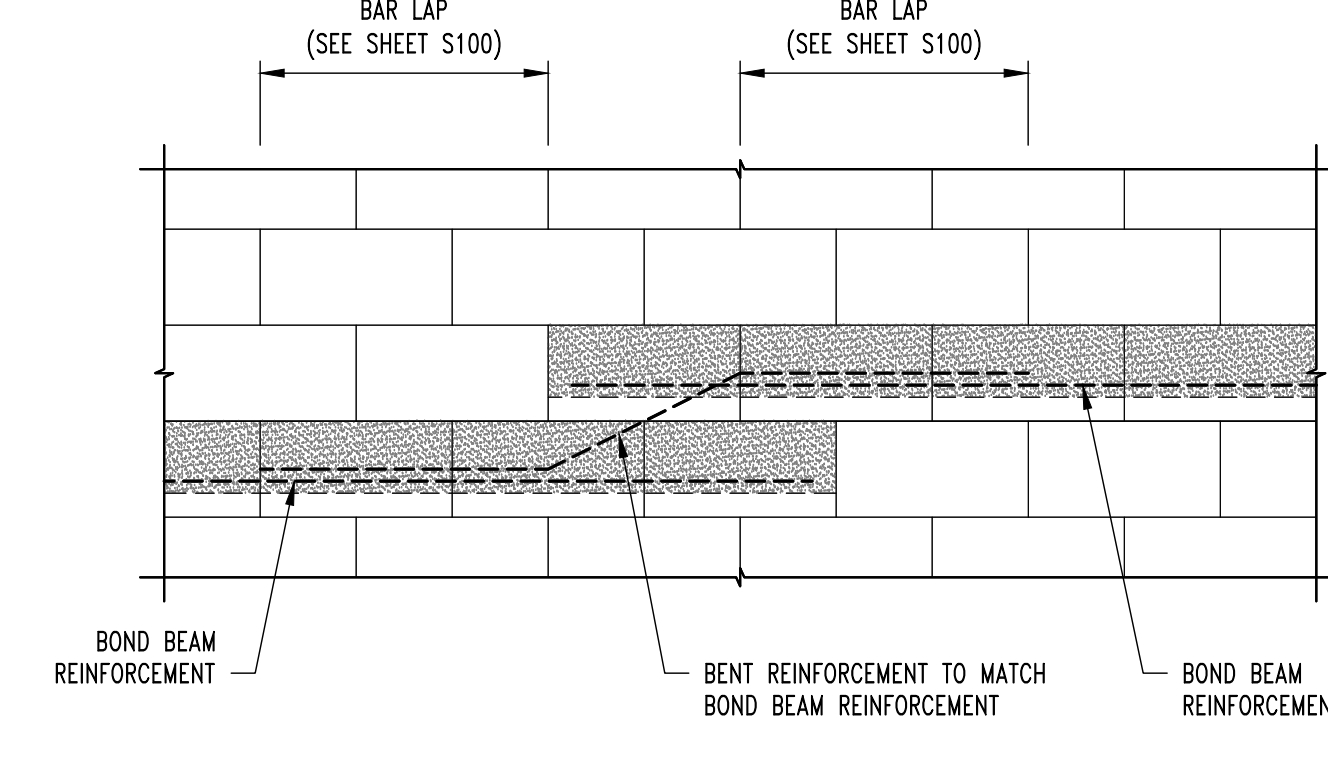
TYPICAL CMU WALL VERT REINFORCING



TYPICAL OPENING FRAMING



TYP. ROOF DECK CONNECTION



TYP. STEP IN BOND BEAM



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FRAMING
DETAILS

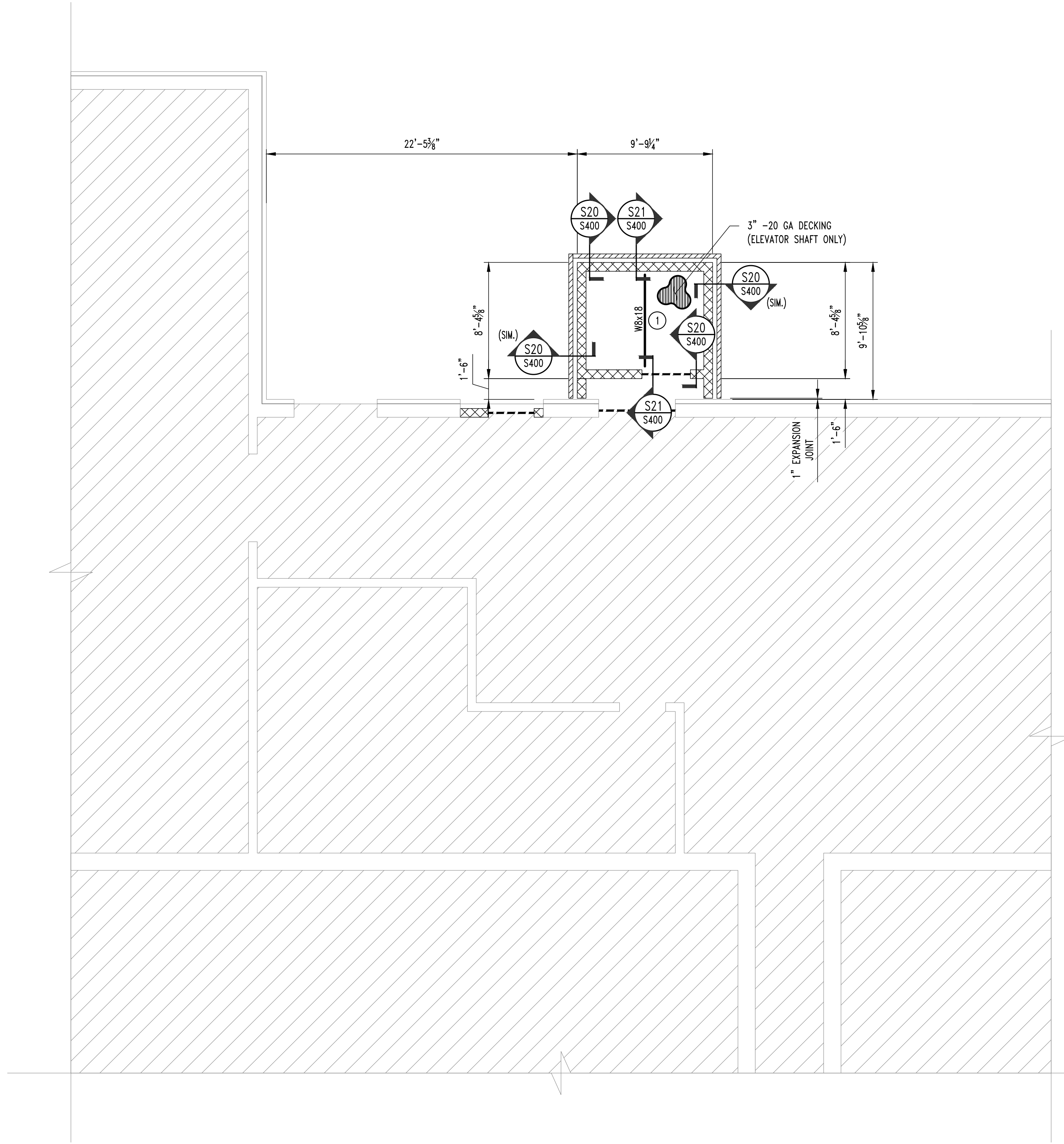
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S-311

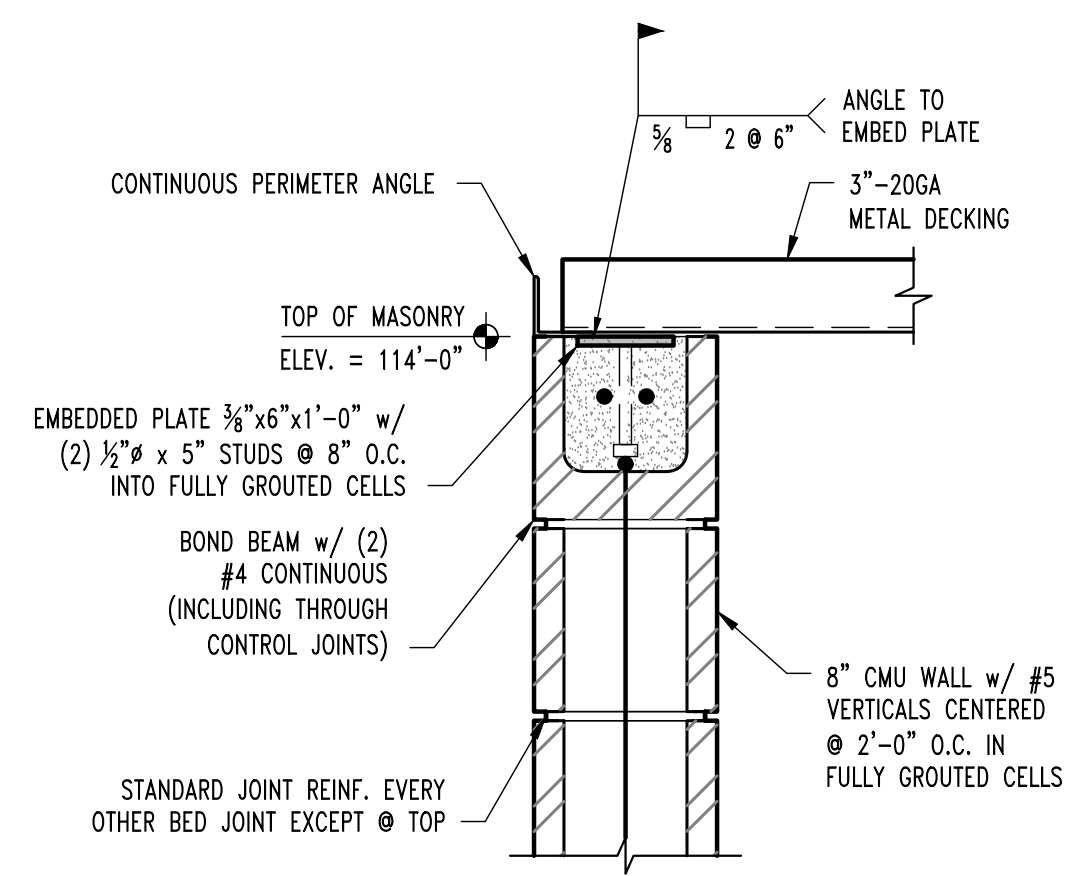
SHEET 22 OF 29

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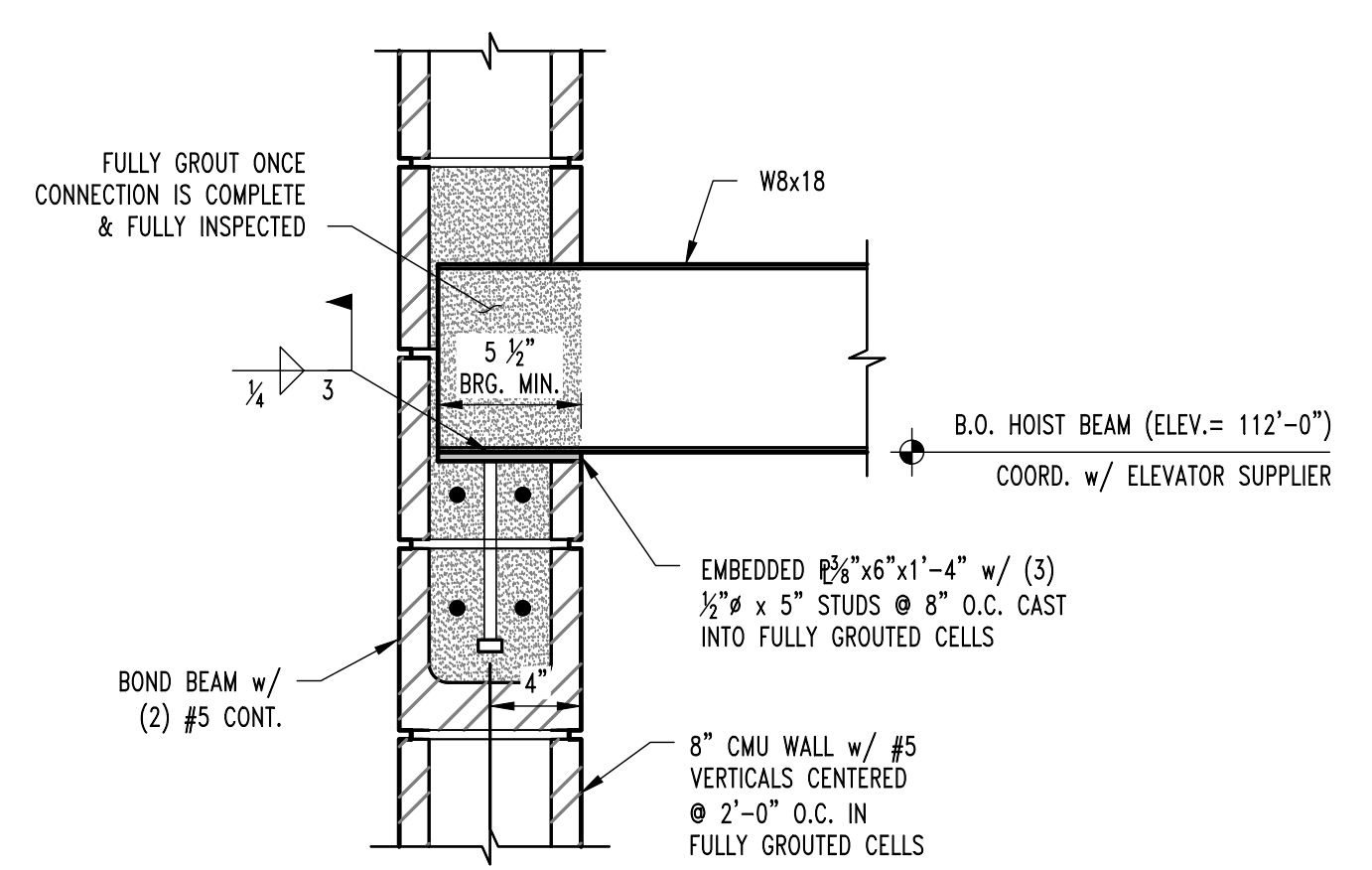
NOTE:
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1
S400
ROOF FRAMING PLAN
SCALE: 3/16" = 1'-0"
PLAN NORTH



S20
S400
METAL DECK TO CMU WALL DETAIL @ ELEVATOR
SCALE: 1/2" = 1'-0"



S21
S400
HOIST BEAM BEARING DETAIL
SCALE: 1/2" = 1'-0"

ROOF FRAMING NOTES

1 HOIST BEAM



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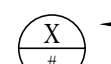



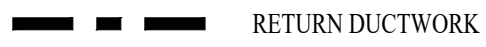

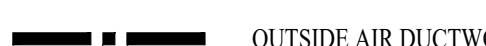



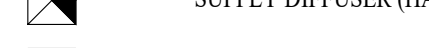



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CHECKED BY: _____
DESIGNED BY: _____

SHEET TITLE:
ELEVATOR ROOF
FRAMING PLAN
& DETAILS

SHEET NUMBER:
S-400

SHEET 23 OF 29
ISSUE DATE: 12/22/2023

HVAC PLAN SYMBOL LEGEND

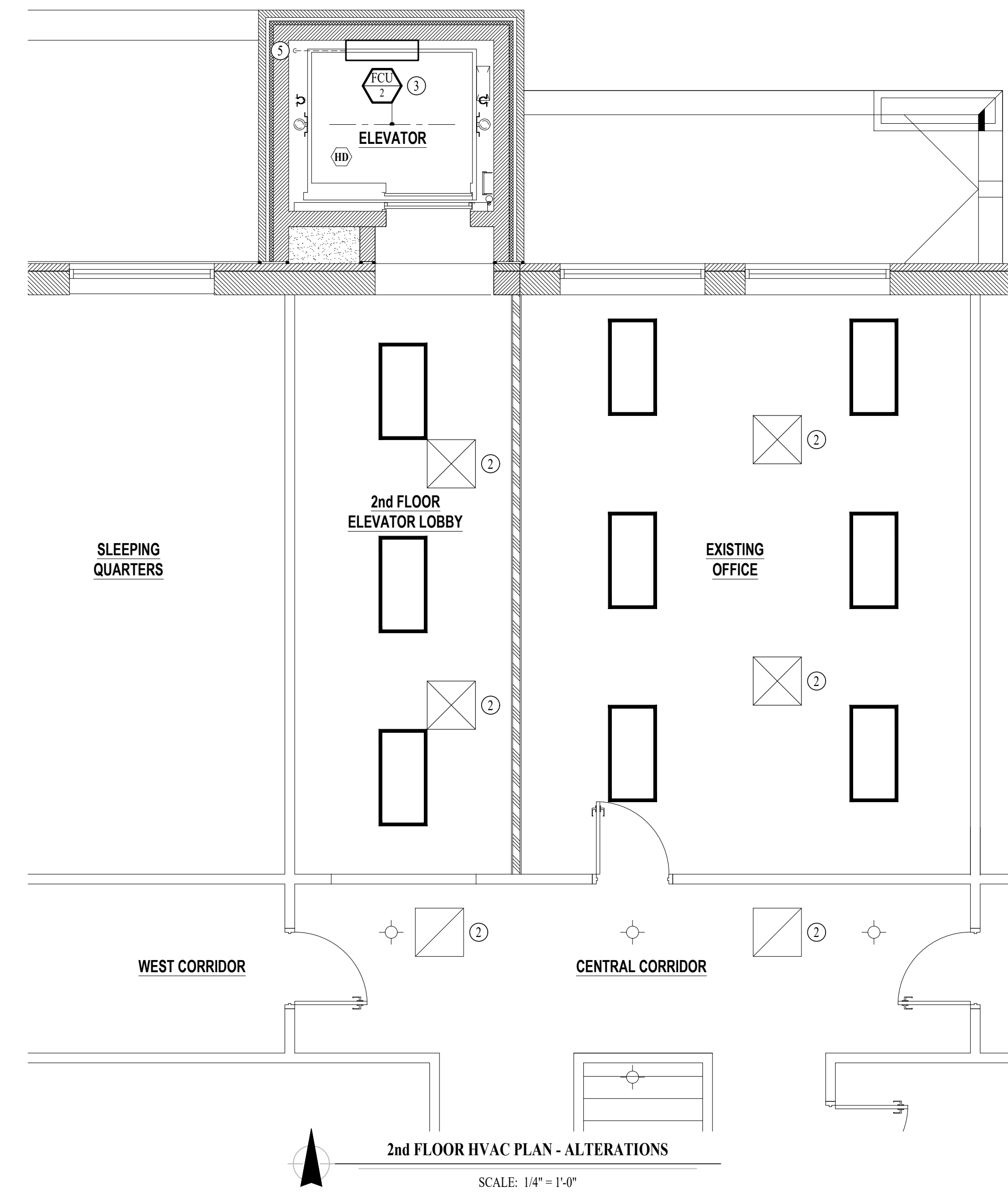
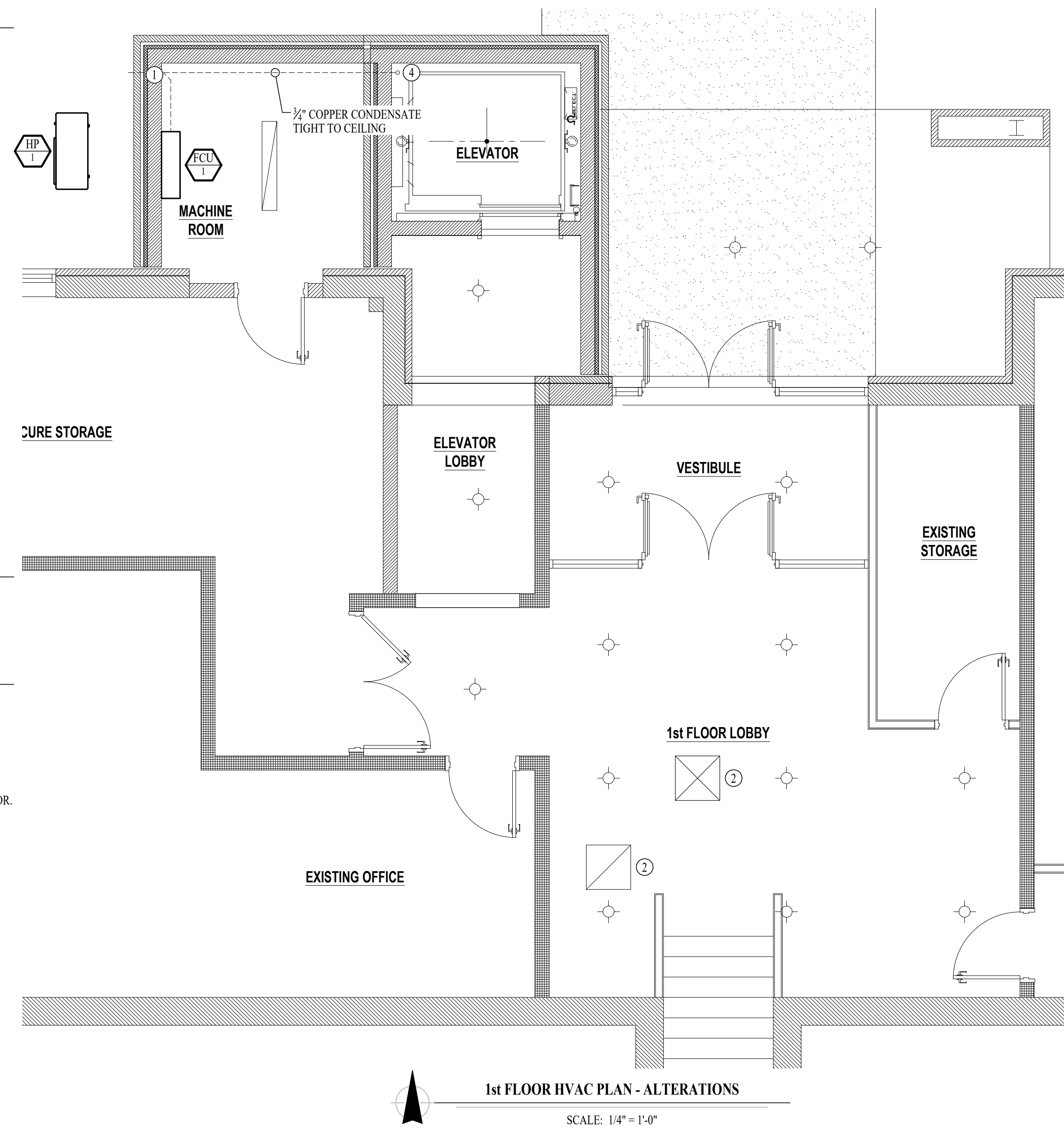
-  EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)
-  EQUIPMENT REFERENCE NUMBER
-  DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE)
-  CUBIC FEET PER MINUTE (CFM) / FACE SIZE
-  SUPPLY DUCTWORK
-  RETURN DUCTWORK
-  EXHAUST DUCTWORK
-  OUTSIDE AIR DUCTWORK
-  FLEX DUCT
-  TIE INTO EXISTING
-  SUPPLY DIFFUSER (HATCH INDICATES "NO FLOW ZONE")
-  RETURN DIFFUSER
-  BALANCE DAMPER
-  MOTORIZED DAMPER
-  THERMOSTAT

HVAC PLAN GENERAL NOTES:

1. SEE SHEET M-501 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.

HVAC PLAN KEY NOTES:

- ① 1" COPPER CONDENSATE DOWN INTERIOR WALL TO 6" A.F.F. THEN OUT EXTERIOR WALL TO COPPER 90°. SEE DETAIL SHEET M501.
- ② EXISTING SUPPLY DIFFUSER / RETURN GRILLE TO REMAIN.
- ③ NEW FAN COIL UNIT (FCU) LOCATED AT TOP OF ELEVATOR SHAFT. COORDINATE EXACT LOCATION WITH ELEVATOR INSTALLER.
- ④ 3/4" COPPER CONDENSATE UP TO FCU ABOVE. COORDINATE ROUTING WITH ELEVATOR CONTRACTOR.
- ⑤ 3/4" COPPER CONDENSATE DOWN SHAFT TO LOWER LEVEL EQUIPMENT ROOM.



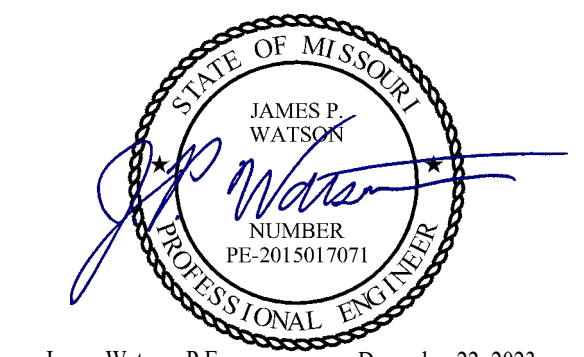
HVAC SPECIFICATIONS

1. EQUIPMENT
 - 1.1. ALL EQUIPMENT MUST PROVIDE THE PERFORMANCE SPECIFIED ON PLANS. WHERE SPECIFIC MAKES AND MODELS ARE INDICATED ON PLAN, CONTRACTOR TO PROVIDE MODEL INDICATED OR APPROVED EQUAL.
 - 1.2. CONTRACTOR TO SUPPLY SUBMITTALS FOR ALL EQUIPMENT FOR REVIEW BY ARCHITECT AND ENGINEER PRIOR TO PURCHASE.
2. DUCTWORK
 - 2.1. DUCTWORK TO BE GALVANIZED STEEL, SEAL CLASS B, CONSTRUCTED PER SMACNA STANDARDS.
 - 2.2. 26 GA. MINIMUM UP TO 16" DUCT, 24 GA. UP TO 20", 22 GA. UP TO 24", 20 GA. UP TO 28", AND 18 GA. UP TO 36".
 - 2.3. TURNING VANES TO BE PROVIDED AND INSTALLED AT ALL 90° BENDS AND TEES.
 - 2.4. DUCT DIMENSIONS LISTED ARE TO INTERIOR OF DUCT LINER.
 - 2.5. BALANCE DAMPERS MUST BE PROVIDED TO ALLOW ADJUSTMENT AT EACH AIR TERMINAL.
 - 2.5.1. WHERE BRANCH TAKEOFF IS ACCESSIBLE (ABOVE LAY-IN CEILING OR EXPOSED DUCT), THE BALANCE DAMPER IS TO BE INSTALLED AT TAKEOFF.
 - 2.5.2. WHERE TAKEOFF IS INACCESSIBLE (IN ATTIC OR SOFFIT), THE BALANCE DAMPER IS TO BE LOCATED SO IT IS ACCESSIBLE FROM FACE OF AIR DEVICE.
 - 2.6. HVAC CONTRACTOR RESPONSIBLE FOR ALL DUCTWORK TRANSITIONS AND FITTINGS AS REQUIRED FOR FINAL CONNECTIONS TO HVAC EQUIPMENT.
3. INSULATION
 - 3.1. DUCTWORK
 - 3.1.1. SEE "TYPICAL DUCT INSULATION DIAGRAM" FOR INSTALLATION SPECIFIC REQUIREMENTS.
 - 3.1.2. INTERNAL DUCT LINER TO BE EQUAL TO JOHNS MANVILLE LINACOUSTIC R-300.
 - 3.1.3. EXTERNAL DUCT WRAP TO INCLUDE VAPOR BARRIER. EQUAL TO JOHNS MANVILLE MICROLITE WITH FSK JACKET.
4. WORKMANSHIP
 - 4.1. COORDINATE WITH OTHER TRADES SO THAT HVAC EQUIPMENT AND DUCT WORK DOES NOT BLOCK REQUIRED ACCESS OR CLEARANCE TO EQUIPMENT.
 - 4.2. ALL HVAC EQUIPMENT IS TO BE INSTALLED PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS.
 - 4.3. ALL EQUIPMENT TO BE INSTALLED LEVEL AND PLUMB.
 - 4.4. ROOFTOP MOUNTED RTUS TO BE INSTALLED ON CURBS PER MANUFACTURES INSTRUCTIONS.
 - 4.5. GRADE MOUNTED RTUS, CONDENSING UNITS, AND HEAT PUMPS TO BE INSTALLED ON 4" REINFORCED CONCRETE PAD EXTENDING 4" BEYOND EACH EDGE OF THE EQUIPMENT, OR A MANUFACTURER APPROVED PRE-MANUFACTURED BASE.

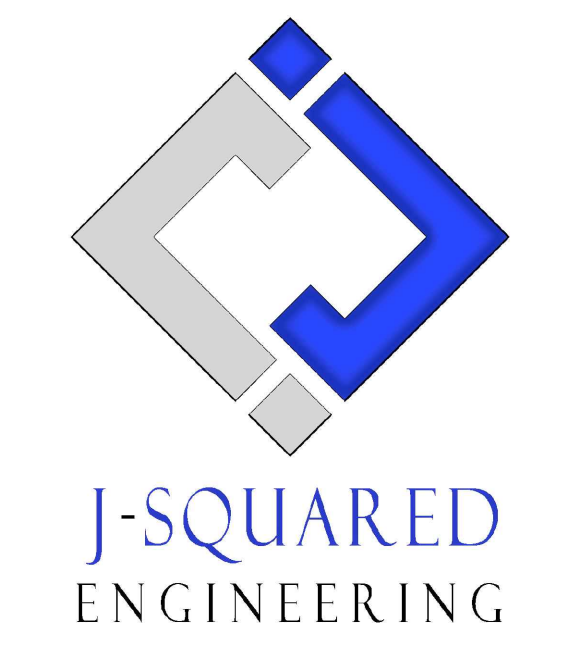
FCU & CU SCHEDULE														
TAG	EQUIPMENT DESCRIPTION	SIZE (TONS)	ORIENTATION	TOTAL AIRFLOW (CFM)	OA AIRFLOW MAX/MIN (CFM)	HEATING		COOLING (LA: 80 DB/67 WB, OA: 95 DB)			ELECTRICAL			NOTES
						ELECTRIC (KW)	SENSIBLE (KBTU)	TOTAL (KBTU)	MIN EFF. (SEER)	VOLTS/PH	MCA	OCP		
FCU-1	WALL FAN COIL	2	WALL MOUNT	918	-	-	-	-	-	-	208/1	0.63	15-2	1
FCU-2	WALL FAN COIL	2	WALL MOUNT	918	-	-	-	-	-	-	208/1	0.63	15-2	1
HP-1	HEAT PUMP	4	STANDARD	-	-	42.4	48	44.8	23	208/1	36	40-2	2	

NOTES:

1. MINI-SPLIT WALL-MOUNT FAN COIL UNIT (EQUAL TO MITSUBISHI #PKFY-P24NKMU-E2.TH).
2. MINI-SPLIT HEAT PUMP (EQUAL TO MITSUBISHI #MXZ-SM48NAMHZ2-U1).



James Watson, P.E. December 22, 2023
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DESIGN & CONSTRUCT
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MILITARY EDUCATION FACILITY

IKE SKELETON TRAINING SITE
2302 MILITIA DRIVE
JEFFERSON CITY, MO 65101

PROJECT # T2211-01
SITE # 6300
ASSET # 8136300012

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

ISSUE DATE: 12/22/2023

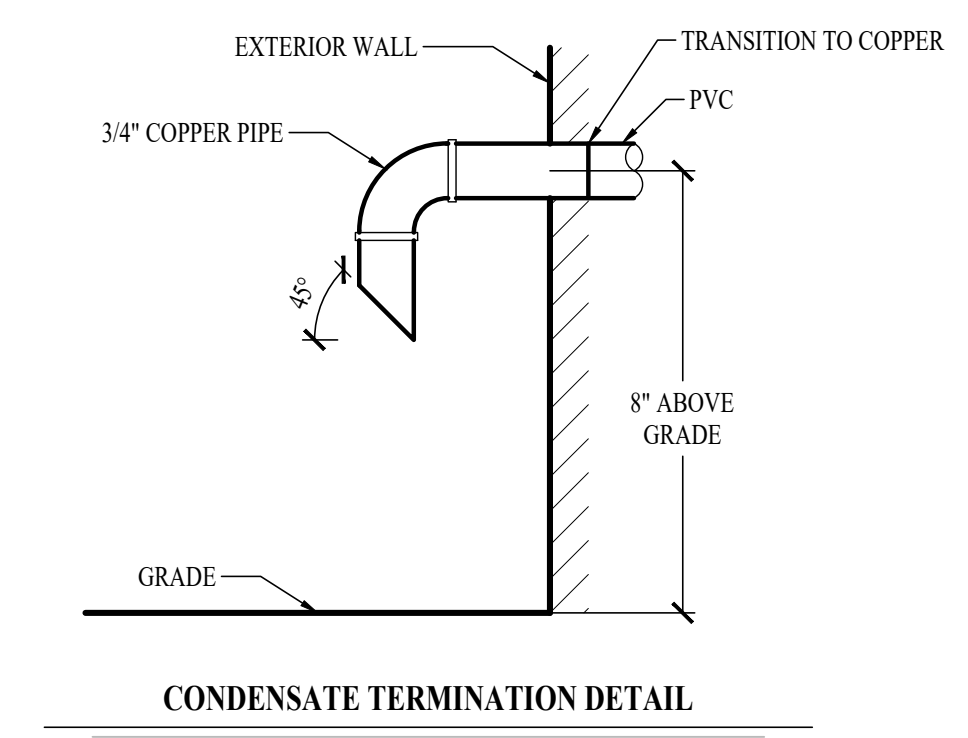
CAD DWG FILE: J20789
DRAWN BY: DET
CHECKED BY: JPW
DESIGNED BY: JAP

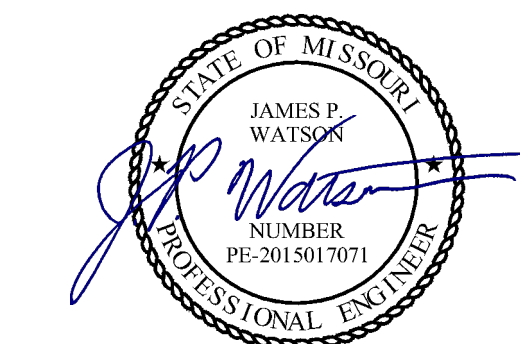
SHEET TITLE:
**HVAC DETAILS &
SCHEDULES**

SHEET NUMBER:

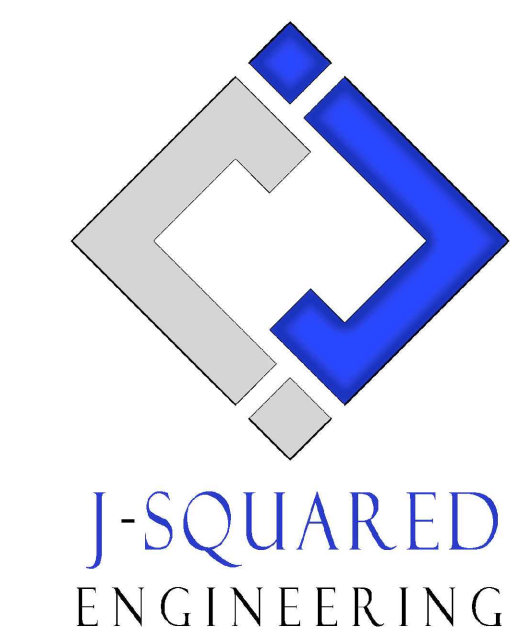
M-501

25 OF 29 SHEETS
ISSUE DATE: 12/22/2023





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CAD DWG FILE: J20789
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SHEET TITLE:
1st FLOOR
ELECTRICAL PLAN

SHEET NUMBER:

E-101

26 OF 29 SHEETS
ISSUE DATE: 12/22/2023

POWER PLAN SYMBOL LEGEND

- CIRCUIT WIRING
- CIRCUIT TAG
- JUNCTION BOX
- RECEPTACLE
- INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- "WP" = WEATHERPROOF OUTDOOR RECEPTACLE
- "AW" = ABOVE WINDOW RECEPTACLE
- "AC" = ABOVE CEILING RECEPTACLE
- "EX" = EXISTING RECEPTACLE TO REMAIN
- GFCI DUPLEX CONVENIENCE RECEPTACLE
- SIMPLEX OUTLET
- DISCONNECT
- FUSED DISCONNECT
- TIE INTO EXISTING

LIGHTING PLAN SYMBOL LEGEND

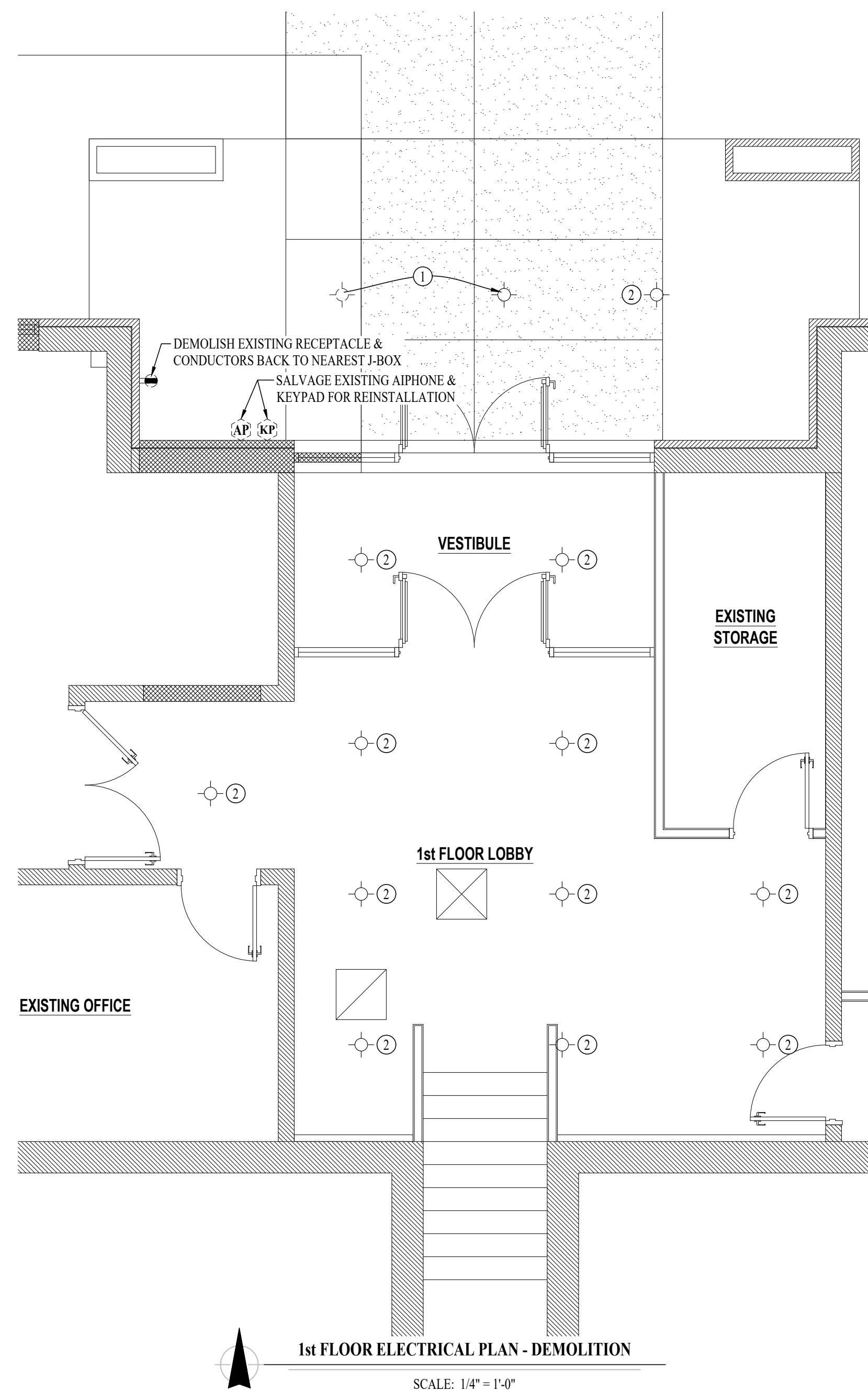
- "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
- LIGHTING FIXTURE
- "EM" INDICATES EMERGENCY BATTERY BACKUP
- "NL" INDICATES UN-SWITCHED NIGHT LIGHT
- EXIT LIGHT
- INDICATES REQUIRED REMOTE HEAD
- EMERGENCY EGRESS LIGHT
- SWITCH (WALL MOUNTED)
- SWITCH TYPE:
 - 3 = 3-WAY
 - 4 = 4-WAY
 - OP = PASSIVE INFRARED OCCUPANCY SENSOR
 - OJ = ULTRASONIC OCCUPANCY SENSOR
 - OT = DUAL-TECHNOLOGY OCCUPANCY SENSOR
 - VP = PASSIVE INFRARED VACANCY SENSOR
 - VU = ULTRASONIC VACANCY SENSOR
 - VT = DUAL-TECHNOLOGY VACANCY SENSOR
 - M = MOMENTARY SWITCH
 - SS = SCENE SWITCH
- OCCUPANCY SENSOR**
 - AUTO FULL-ON (OR 50% IF NOTED)
 - AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT OCCUPANT DETECTION
 - WITH MANUAL OVERRIDE CONTROL (IF NOTED)
- VACANCY SENSOR**
 - MANUAL FULL-ON
 - AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT OCCUPANT DETECTION
 - WITH MANUAL OVERRIDE CONTROL (IF NOTED)

ELECTRICAL PLAN GENERAL NOTES:

1. SEE SHEET E-501 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2. OCCUPANCY / VACANCY SENSOR QUANTITIES AND GENERAL LOCATIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE AND INSTALL SENSOR WITH SPACING PER MANUFACTURER SPECIFICATIONS AND INCLUDE ADDITIONAL SENSORS IF NECESSARY. CEILING-MOUNTED SENSORS SHALL BE INSTALLED WITHIN MANUFACTURER'S ACCEPTABLE MOUNTING HEIGHT RANGE.

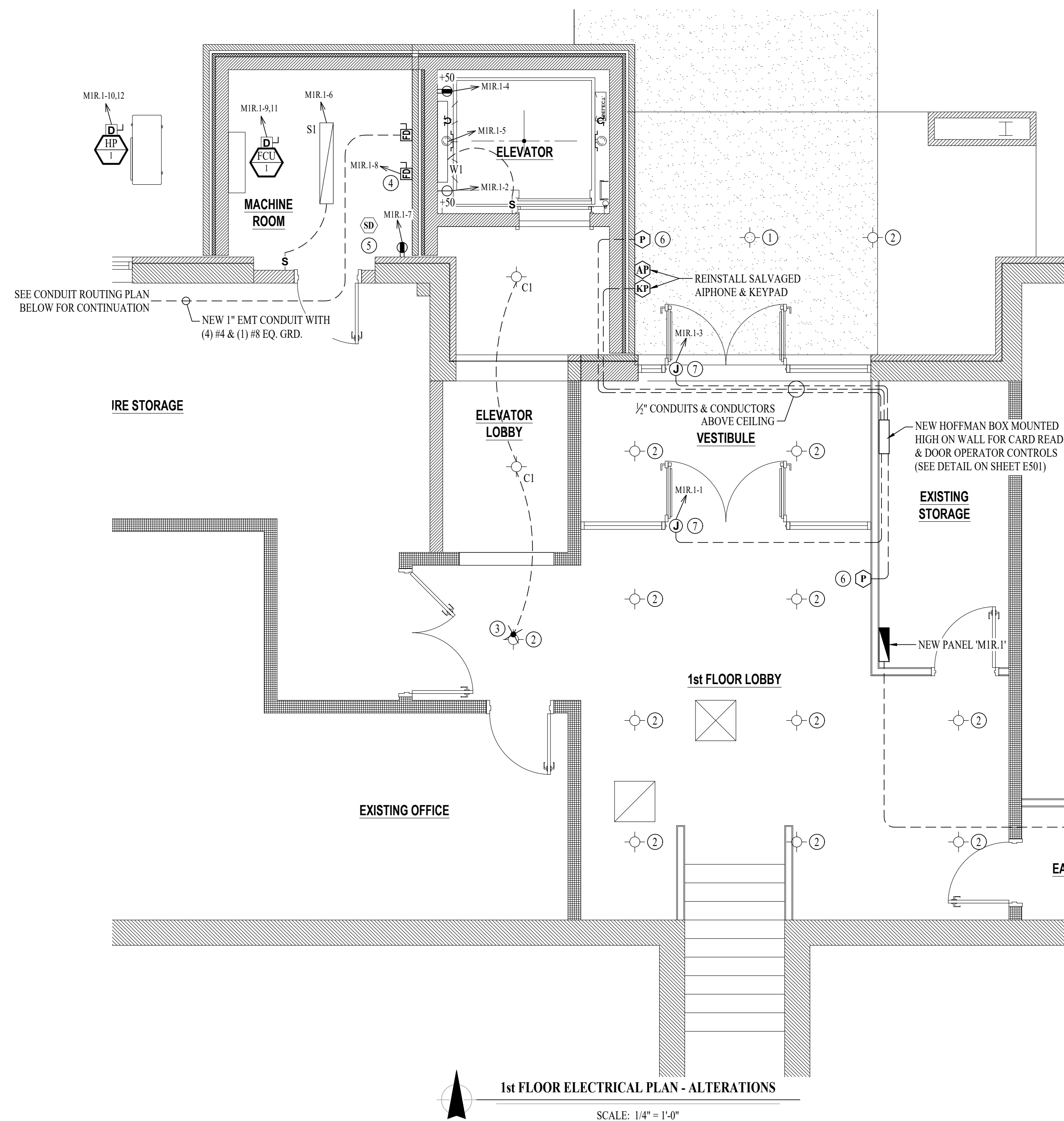
ELECTRICAL PLAN KEY NOTES:

- ① RELOCATE EXISTING LIGHT AS SHOWN.
- ② EXISTING LIGHT FIXTURE TO REMAIN.
- ③ CONNECT TO EXISTING LIGHT CIRCUIT & SWITCHING AT EXISTING FIXTURE.
- ④ 120V, 30A DISCONNECT FUSED AT 15 AMPS FOR ELEVATOR CAB LIGHTS.
- ⑤ SMOKE DETECTOR. CONNECT TO EXISTING FIRE ALARM SYSTEM.
- ⑥ NEW ADA PUSH BUTTON.
- ⑦ NEW ADA OPERATOR.



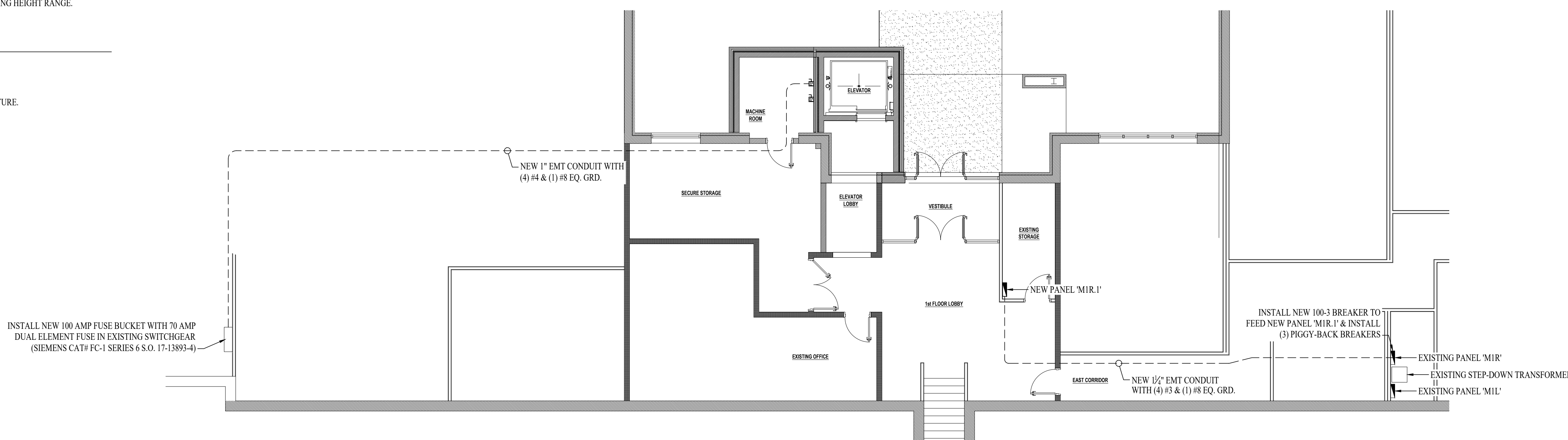
1st FLOOR ELECTRICAL PLAN - DEMOLITION

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



1st FLOOR ELECTRICAL PLAN - ALTERATIONS

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

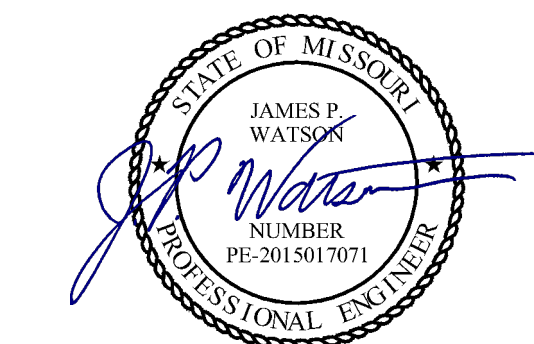


1st FLOOR ELECTRICAL PLAN - CONDUIT ROUTING

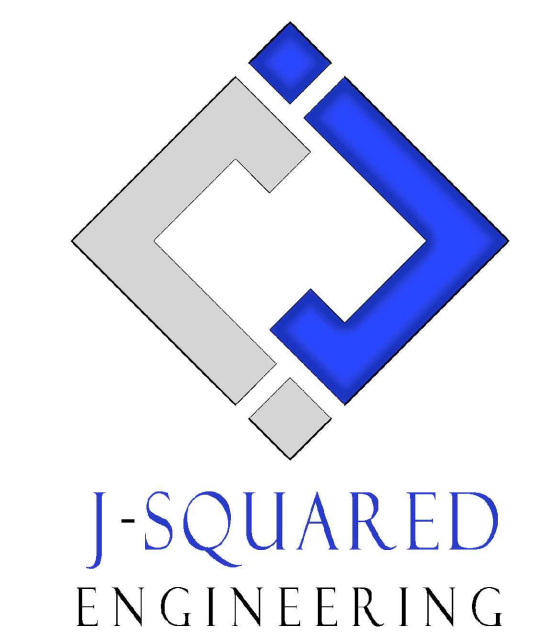
SCALE: 1/8" = 1'-0"

INSTALL NEW 100 AMP FUSE BUCKET WITH 70 AMP DUAL ELEMENT FUSE IN EXISTING SWITCHGEAR (SIEMENS CAT# FC-1 SERIES 6 S.O. 17-13893-4)

INSTALL NEW 100-3 BREAKER TO FEED NEW PANEL 'MIR.1' & INSTALL (3) PIGGY-BACK BREAKERS



James Watson, P.E. December 22, 2023
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SHEET TITLE:

2nd FLOOR
ELECTRICAL PLAN

SHEET NUMBER:

E-102

27 OF 29 SHEETS
ISSUE DATE: 12/22/2023

POWER PLAN SYMBOL LEGEND

- CIRCUIT WIRING
- CIRCUIT TAG
- JUNCTION BOX
- RECEPTACLE
INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
"WP" = WEATHERPROOF OUTDOOR RECEPTACLE
"AW" = ABOVE WINDOW RECEPTACLE
"AC" = ABOVE CEILING RECEPTACLE
"EX" = EXISTING RECEPTACLE TO REMAIN
- GFCI DUPLEX CONVENIENCE RECEPTACLE
- SIMPLEX OUTLET
- DISCONNECT
- FUSED DISCONNECT
- TIE INTO EXISTING

LIGHTING PLAN SYMBOL LEGEND

- "XI" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
- LIGHTING FIXTURE
- "EM" INDICATES EMERGENCY BATTERY BACKUP
- "NL" INDICATES UN-SWITCHED NIGHT LIGHT
- EXIT LIGHT
INDICATES REQUIRED REMOTE HEAD
- EMERGENCY EGRESS LIGHT
- SWITCH (WALL MOUNTED)
- SWITCH TYPE:
 - 3 = 3-WAY
 - 4 = 4-WAY
 - OP = PASSIVE INFRARED OCCUPANCY SENSOR
 - OU = ULTRASONIC OCCUPANCY SENSOR
 - OT = DUAL-TECHNOLOGY OCCUPANCY SENSOR
 - VP = PASSIVE INFRARED VACANCY SENSOR
 - VU = ULTRASONIC VACANCY SENSOR
 - VT = DUAL-TECHNOLOGY VACANCY SENSOR
 - M = MOMENTARY SWITCH
 - SS = SCENE SWITCH

OCCUPANCY SENSOR

- AUTO-FULL-ON (OR 50% IF NOTED)
- AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT OCCUPANT DETECTION
- WITH MANUAL OVERRIDE CONTROL (IF NOTED)

VACANCY SENSOR

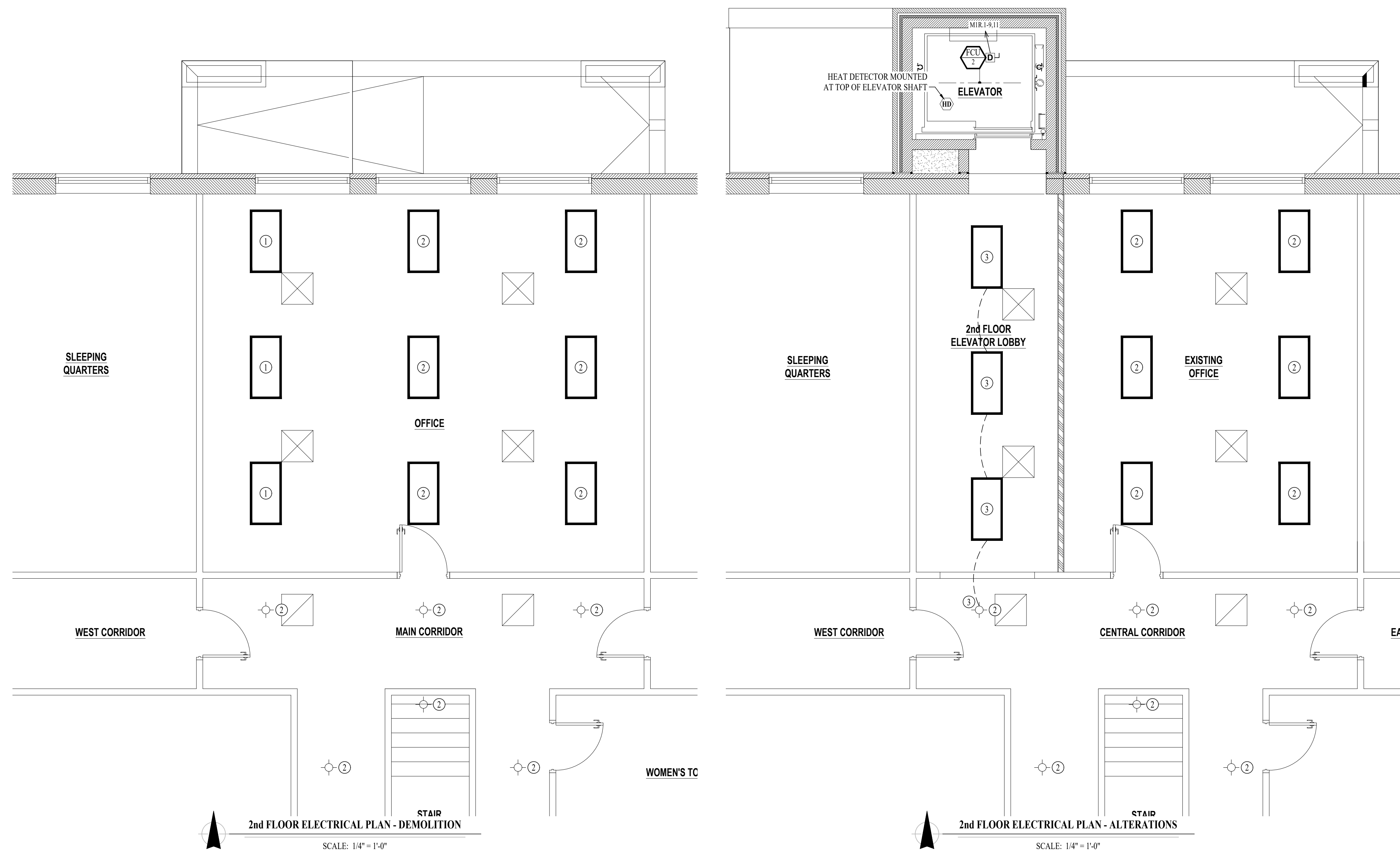
- MANUAL FULL-ON
- AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT OCCUPANT DETECTION
- WITH MANUAL OVERRIDE CONTROL (IF NOTED)

ELECTRICAL PLAN GENERAL NOTES:

1. SEE SHEET E-501 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2. OCCUPANCY / VACANCY SENSOR QUANTITIES AND GENERAL LOCATIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE AND INSTALL SENSOR WITH SPACING PER MANUFACTURER SPECIFICATIONS AND INCLUDE ADDITIONAL SENSORS IF NECESSARY. CEILING-MOUNTED SENSORS SHALL BE INSTALLED WITHIN MANUFACTURER'S ACCEPTABLE MOUNTING HEIGHT RANGE.

ELECTRICAL PLAN KEY NOTES:

- ① DISCONNECT LIGHT FIXTURE FROM EXISTING CIRCUIT / SWITCH LEG.
- ② EXISTING LIGHT FIXTURE TO REMAIN.
- ③ TIE INTO EXISTING LIGHTING CIRCUIT & SWITCHING AT EXISTING LIGHT FIXTURE.



ELECTRICAL SPECIFICATIONS

1. GENERAL
 - 1.1. THE ENTIRE ELECTRICAL SYSTEM SHALL BE CONTINUOUSLY GROUNDED. EVERY BRANCH CONDUIT SHALL INCLUDE A GREEN GROUND CONDUCTOR SIZED PER NEC.
 - 1.2. ARC-FAULT CIRCUITS SHALL BE RUN WITH A DEDICATED NEUTRAL AS REQUIRED BY MANUFACTURER.
 - 1.3. PROVIDE TYPE WRITTEN PANEL SCHEDULE FOR EACH PANEL.
2. MATERIALS
 - 2.1. CONDUIT & CONDUCTORS
 - 2.1.1. ALL CONDUCTORS SIZES INDICATED ON PLANS ARE COPPER UNLESS NOTED OTHERWISE.
 - 2.1.2. ABOVE GRADE CONDUCTORS SHALL BE THIN COPPER. BELOW GRADE CONDUCTORS SHALL BE XHHW-2.
 - 2.1.3. MINIMUM CONDUCTOR SIZE SHALL BE #12 UNLESS NOTED OTHERWISE. 120V, 20 AMP CIRCUITS WITH CONDUCTOR LENGTH GREATER THAN 100' SHALL BE MINIMUM #10. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MEASURING ACTUAL CONDUCTOR LENGTH AND INCREASING CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP AS REQUIRED BY NEC.
 - 2.1.4. RIGID GALVANIZED OR SCHEDULE 40 PVC CONDUIT SHALL BE USED FOR SERVICE WIRING, BELOW GRADE INSTALLATIONS, OR WHERE EXPOSED TO WEATHER.
 - 2.2. DEVICES
 - 2.2.1. CONTRACTOR TO PROVIDE J-BOXES, COVER PLATES, AND ANY ACCESSORIES REQUIRED TO PROVIDE A COMPLETE SYSTEM. SEE ARCHITECTURAL PLANS FOR DEVICE COLORS.
 - 2.2.1. DUPLEX RECEPTACLES SHALL BE TAMPER RESISTANT, 20 AMP, EQUAL TO LEVITON CR20.

LIGHT FIXTURE SCHEDULE										
TAG	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	DESCRIPTION	MOUNTING	LUMEN OUTPUT	CCT (°K)	CRI	VOLTS	WATTS	NOTES
C1	HALO	SLD612-8-35-WH-UNV	6" ROUND LED CAN	SURFACE	1200	3500	80	120	15	
S1	METALUX	4BCL-ED-1D4-40SL-F-UNV-L835-CD1-U	4" LINEAR	WALL BRACKET	4000	3500	80	120	42	
W1	METALUX	4VT2-LD5-6-DR-UNV-L835-CD1-WL-U	4" INDUSTRIAL VAPORITE LED	SURFACE	6000	3500	80	120	51	

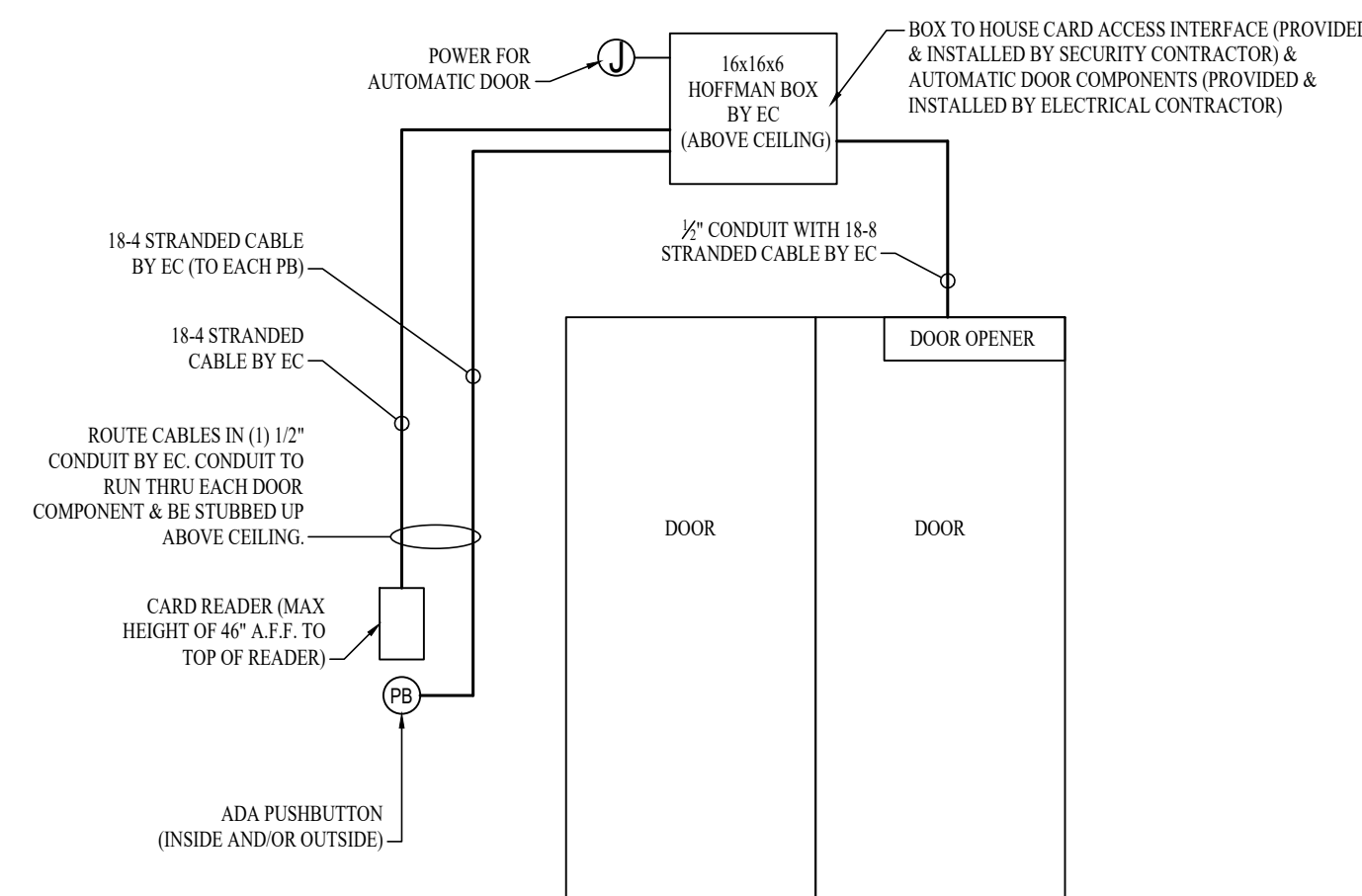
NOTES:
1. VERIFY LIGHT FIXTURE FINISHES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION

NEW PANEL 'MIR.1' SCHEDULE											
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING					
120/208V		100A MLO		SURFACE		22,000		PHASE "A" LOAD			15
								PHASE "B" LOAD			43.76
								PHASE "C" LOAD			37.96
NEMA RATING: 1											
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER			
1	DOOR OPERATOR	20-1	5	A	7.5	20-1	ELEVATOR SUMP PUMP	2			
3	DOOR OPERATOR	20-1	5	B	1.5	20-1	ELEVATOR PIT GFCI	4			
5	ELEVATOR PIT LIGHT	20-1	0.4	C	0.3	20-1	ELEVATOR MACHINE ROOM LIGHT	6			
7	ELEVATOR MACHINE ROOM OUTLET	20-1	1.5	A	1	20-1	ELEVATOR CAB LIGHT	8			
9	FCU-1 & FCU-2	15-2	1.26	B	36	40-2	HP-1	10			
11	-	-	1.26	C	36	-	-	12			
13				A				14			
15				B				16			
17				C				18			
19				A				20			
21				B				22			
23				C				24			
25				A				26			
27				B				28			
29				C				30			

NO TBS:
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"
B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.
C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

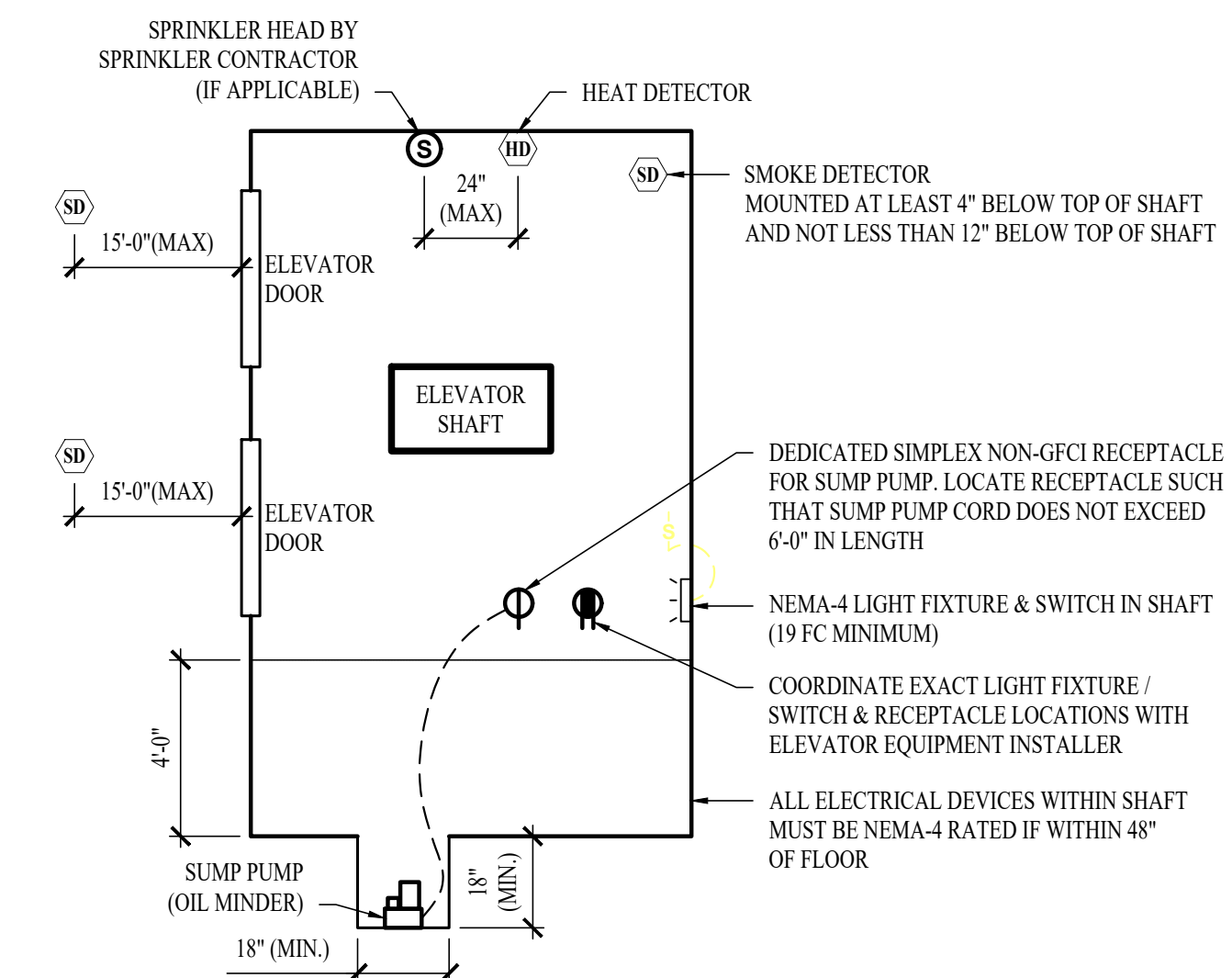
NOTES:

1. ALL ELECTRICAL CONDUCTORS WITHIN ELEVATOR PIT MUST COMPLY WITH NEC 630.21.
2. SUMP PUMP RECEPTACLE, SHAFT / PIT RECEPTACLES, & SHAFT LIGHTING TO ALL BE ON EMERGENCY POWER IF ELEVATOR IS ON EMERGENCY POWER.
3. ADDITIONAL SMOKE DETECTOR REQUIRED IN ELEVATOR MACHINE ROOM (IF APPLICABLE).
4. IN CASES WHERE ELEVATOR IS NOT SHUNT-TRIP PROTECTED, A LABELED SPRINKLER SHUT-OFF MUST BE LOCATED OUTSIDE THE ELEVATOR HOISTWAY AND/OR EQUIPMENT ROOM.
5. PERMANENTLY LABEL ALL CIRCUITS AND FEEDERS.
6. SUMP PUMP DISCHARGE LINE SHALL BE HARD PIPED (NO PVC).

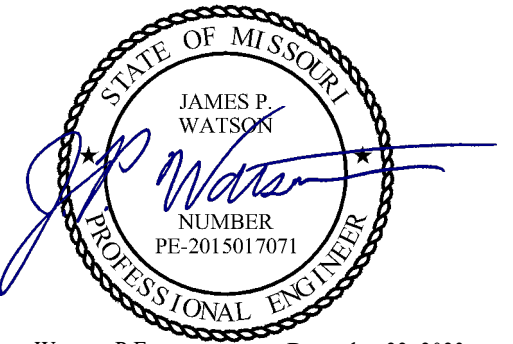


- GENERAL NOTES:**
1. ALL CABLE TO BE NON-SHIELDED
 2. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR RUNNING ALL CABLE UP TO HOFFMAN BOX ABOVE CEILING; DOOR CONTRACTOR TO MAKE ALL DOOR CONNECTIONS & HAVE DOOR OPERATIONAL PRIOR TO SECURITY CONTRACTOR BEING ON SITE. SECURITY CONTRACTOR TO MAKE ALL ACCESS CONTROL CONNECTIONS.

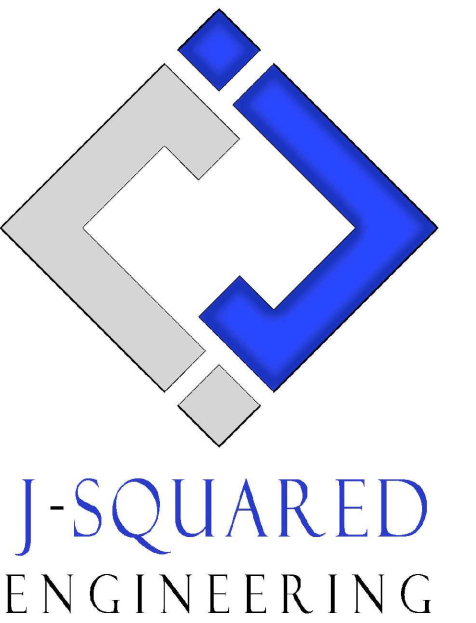
DOOR w/ CARD READER & AUTOMATIC DOOR OPERATOR DETAIL



ELEVATOR DETAIL



James Watson, P.E. December 22, 2023
PE-2015017071
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DESIGNED BY: JAP

SHEET TITLE:

**ELECTRICAL
DETAILS &
SCHEDULES**

SHEET NUMBER:

E-501

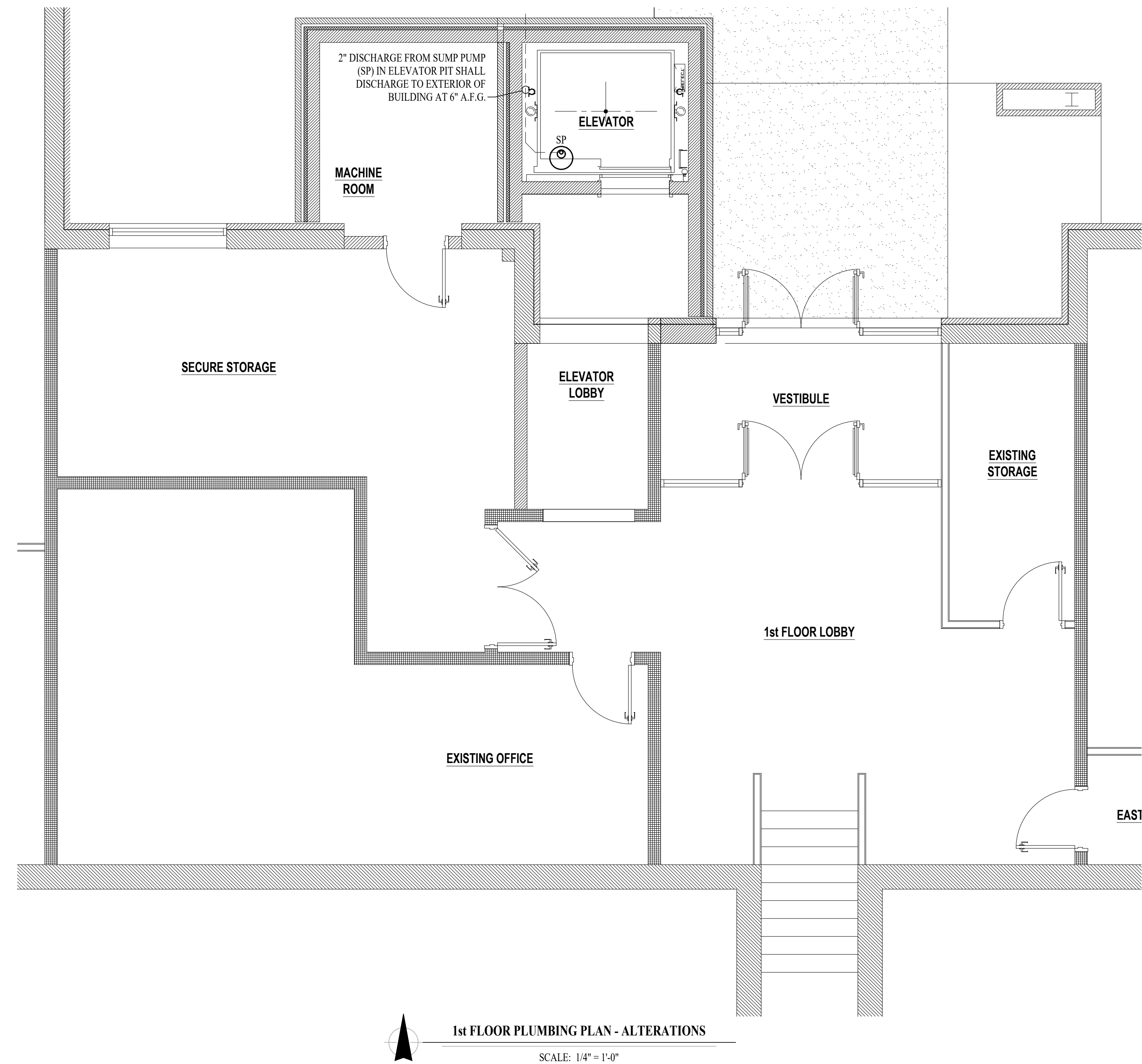
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ISSUE DATE: 12/22/2023

SANITARY SEWER PLAN SYMBOL LEGEND

- SANITARY SEWER PIPING
- VENT PIPING
- ○ PIPING TURNED DOWN / TURNED UP
- ✕ TIE INTO EXISTING

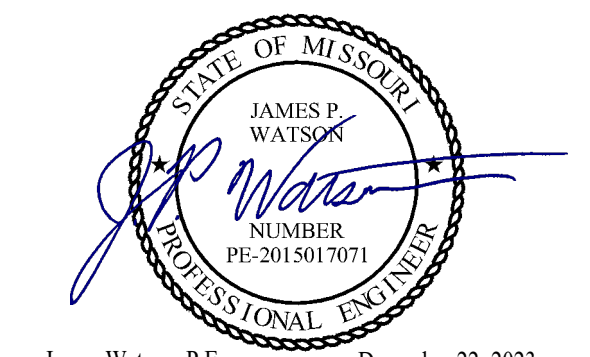
PLUMBING SPECIFICATIONS

1. GENERAL
 - 1.1. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL ESCUTCHEONS, 1/4 TURN STOPS, P-TRAPS, AND SUPPLY LINES TO PROVIDE A COMPLETE SYSTEM AT EACH FIXTURE INDICATED ON PLANS UNLESS NOTED OTHERWISE.
2. SANITARY
 - 2.1. BELOW AND ABOVE GRADE WASTE AND VENT PIPING IN BUILDING TO BE SOLID CORE SCH. 40 PVC DWV.
 - 2.2. NO PIPE SMALLER THAN 2" BELOW GRADE.
 - 2.3. WASTE AND VENT PIPING IN PLENUMS TO BE CAST IRON, OR PVC WITH AN INSULATION WRAP LISTED FOR USE AS SUCH AN ASSEMBLY.
 - 2.4. ALL VENT PIPE TERMINATIONS ARE TO BE LOCATED EITHER 10' HORIZONTALLY OR 3' ABOVE MECHANICAL AIR INTAKE LOCATIONS.
3. DOMESTIC WATER
 - 3.1. DOMESTIC WATER PIPING TO BE COPPER.
 - 3.2. COPPER WATER PIPING BELOW GRADE SHALL BE TYPE "K". BELOW GRADE JOINTS SHALL BE SILVER SOLDERED. THERE SHALL BE NO JOINTS IN WATER PIPING LOCATED BENEATH BUILDING SLAB.
 - 3.3. COPPER WATER PIPING ABOVE GRADE SHALL BE TYPE "L".
 - 3.4. PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK-CLOSE VALVES. FIXTURES REQUIRING WATER HAMMER ARRESTORS INCLUDE BUT ARE NOT LIMITED TO FLUSH VALVES, SENSOR FAUCETS, AND WASHING MACHINE BOXES. AIR CHAMBERS ARE NOT ACCEPTABLE.
 - 3.5. DOMESTIC WATER PIPING INSULATION
 - 3.5.1. ALL HW PIPING SHALL BE INSULATED WITH PLENUM-RATED CLOSED CELL ELASTOMERIC INSULATION. FOR PIPING LESS THAN 1/2", INSULATION THICKNESS TO BE 1". FOR PIPING 1/2" OR GREATER, INSULATION THICKNESS SHALL BE 1/2".
 - 3.5.2. CW COPPER PIPING TO INSULATED WITH 1/2" PLENUM-RATED CLOSED CELL ELASTOMERIC INSULATION.

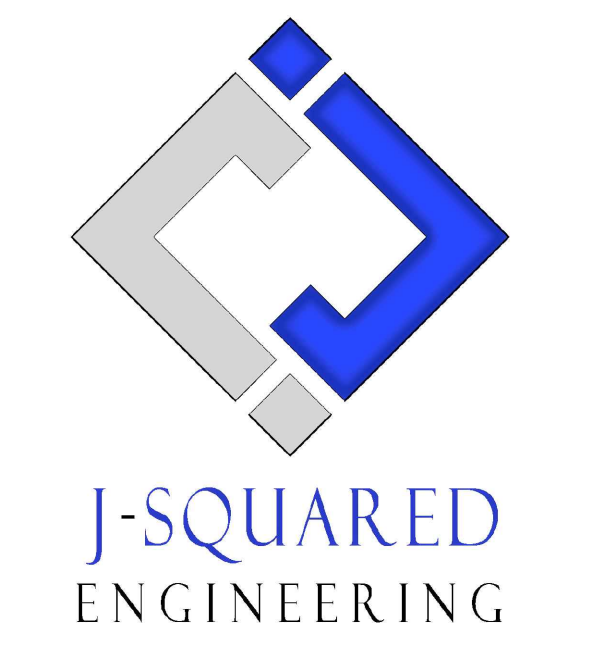


1st FLOOR PLUMBING PLAN - ALTERATIONS
SCALE: 1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	NOTES
SP	SUMP PUMP	ZOELLER	OIL GURAD SYSTEM WITH MODEL 152 PUMP	PROVIDE WITH OIL SMART SWITCH AND SIMPLEX PANEL.
NOTES:				
1. VERIFY NECESSARY FIXTURES MEET ADA REQUIREMENTS WITH ARCHITECT PRIOR TO INSTALLATION				



James Watson, P.E. December 22, 2023
PE-2015017071
MO Certificate of Authority # 2018029680



OFFICE OF
ADMINISTRATION
DIVISION OF
FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION

DESIGN & CONSTRUCT
ELEVATOR & ASSEMBLY

MILITARY EDUCATION FACILITY
IKE SKELETON TRAINING SITE
2302 MILITIA DRIVE
JEFFERSON CITY, MO 65101

PROJECT # T2211-01
SITE # 6300
ASSET # 8136300012

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

ISSUE DATE: 12/22/2023

CAD DWG FILE: J20789
DRAWN BY: DET
CHECKED BY: JPW
DESIGNED BY: JAP

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1st FLOOR PLUMBING
PLAN

SHEET NUMBER:

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