













## STRUCTURAL DESIGN CRITERIA

### DESIGN SUMMARY:

THE BUILDING IS A WOOD STRUCTURE THAT CONSIST OF TYPICAL PRE-ENGINEERED WOOD TRUSSES WITH A STRUCTURAL SHEATHING ROOF DIAPHRAGM AND SHEAR WALLS. THE FOUNDATIONS ARE SHALLOW CONCRETE FOUNDATIONS AND HAVE BEEN DESIGNED BASED ON 2000 PSF ALLOWABLE SOIL BEARING CAPACITY AND SHALL BE VERIFIED BY THE CONTRACTOR DURING CONSTRUCTION.

DESIGN CODE: 2012 ARKANSAS FIRE PREVENTION CODE (BASED ON THE 2012 INTERNATIONAL BUILDING CODE)

ALSO REFERENCES ASCE 7-10

RISK CATEGORY: II

GRAVITY LOADS

**DEAD LOAD:** MATERIAL WEIGHT

**LIVE LOADS:**  
TYPICAL ROOF LIVE LOAD 20 PSF

**SNOW LOADS:**  
GROUND SNOW LOAD PG= 15 PSF

SNOW DRIFT SHALL BE CONSIDERED FOR THE NEW STRUCTURE PER ASCE 7-10.

LATERAL LOADS

**WIND:**

ULTIMATE WIND SPEED Vult = 115 MPH  
NOMINAL WIND SPEED Vasd = 89 MPH  
IMPORTANCE FACTOR Iw = 1.0  
EXPOSURE CATEGORY C

**SEISMIC:**

SOIL SITE CLASS (ASSUMED) D  
IMPORTANCE FACTOR Ie = 1.0  
MAPPED SPECTRAL RESP ACC SH PER. SS = 0.538  
MAPPED SPECTRAL RESP ACC 1 SEC. S1 = 0.209  
MCE/R SPECTRAL RESPONSE SH PER. SMS = 0.737  
MCE/R SPECTRAL RESPONSE 1 SEC. SM1 = 0.415  
DESIGN SPECTRAL RESPONSE SH PER. SDS = 0.491

DESIGN SPECTRAL RESPONSE 1 SEC. SD1 = 0.276  
**SEISMIC DESIGN CATEGORY D**

**LATERAL SYSTEM:**

LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS  
RESPONSE MODIFICATION FACTOR R = 6.5  
SEISMIC RESPONSE COEFF. Cs = 0.076

## STRUCTURAL GENERAL NOTES

### A. SPECIAL INSPECTIONS:

- ALL SPECIAL INSPECTIONS AND TESTS REQUIRED IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE SHALL BE PERFORMED BY A QUALIFIED INSPECTOR AND REPORTS SHALL BE FURNISHED.

### B. MISCELLANEOUS:

- CONTRACTOR SHALL COMPLY WITH ALL OSHA SAFETY STANDARDS DURING CONSTRUCTION.
- COORDINATE WORK FROM ALL DISCIPLINES AS REQUIRED.

### C. EARTHWORK:

- FOUNDATIONS ARE DESIGNED BASED ON AN ALLOWABLE BEARING CAPACITY OF 2000 PSF AND THE CONTRACTOR SHALL HAVE THIS VERIFIED DURING CONSTRUCTION PRIOR TO POURING THE FOUNDATIONS.
- UNDERCUTTING, FILL PLACEMENT AND COMPACTION OF ALL FOUNDATIONS AND SLABS SHALL BE PERFORMED PER THE GEOTECHNICAL RECOMMENDATIONS.

### D. CONCRETE AND REINFORCING:

- ALL CONCRETE AND REINFORCEMENT SHALL CONFORM TO THE LATEST ACI CODE.
- ALL REINFORCING BARS SHALL BE A-615 GRADE 60 STEEL.
- LAP ALL REINFORCING BARS 48 BAR DIAMETERS MIN.
- ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH AT 28 DAYS (f'c) OF 3500 PSI.
- MAXIMUM AGGREGATE SIZE IN FOOTINGS SHALL BE 1 1/2", MAXIMUM AND AGGREGATE SIZE IN SLABS SHALL BE 1".
- CONCRETE EXPOSED TO WEATHER SHALL HAVE 5.5% AIR ENTRAINMENT.
- PROVIDE CORNER BARS AT INTERSECTIONS OF ALL CONCRETE MEMBERS. MATCH SIZE AND SPACING OF REBAR IN FOOTING.
- SLAB EDGE TOLERANCE SHALL BE ±1/2" U.N.O.
- PLACE AND CURE CONCRETE IN ACCORDANCE TO ACI 305R AND 306R FOR HIGH AND LOW AIR TEMPERATURES AT PLACEMENT, RESPECTIVELY.
- THE CONCRETE FOUNDATION HAS BEEN DESIGNED IN ACCORDANCE WITH ACT 1100, 1991 OF THE STATE OF ARKANSAS.

### E. CONCRETE MASONRY

- CONCRETE MASONRY MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE LATEST ACI-530.
- REQUIRED MASONRY NET AREA COMPRESSIVE STRENGTH f'm = 2000 PSI.
- TYPE M OR S MORTAR SHALL BE USED THAT CONFORMS TO ASTM C270.
- GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2000 PSI.
- THE BELOW GRADE CMU WALL STRUCTURES SHALL BE FULLY GROUTED AND GROUTING PROCEDURE SHALL COMPLY WITH THE ACI 530.

### F. WOOD

- DESIGN OF WOOD MEMBERS IS BASED ON THE 2018 EDITION OF THE NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION
- FRAMING LUMBER SHALL BE SOUTHERN PINE STUD GRADE OR BETTER U.N.O. WOOD INN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
- ALL SHEATHING SHALL BE STRUCTURAL 1 CONFORMING TO PRODUCT STANDARD PS 1 WITH EXTERIOR GLUE.
- BOLT HOLES SHALL BE 1/16" LARGER THAN THE BOLT SIZE. RE-TIGHTEN ALL NUTS PRIOR TO CLOSING IN.
- STANDARD CUT WASHERS SHALL BE USED UNDER HEAD AND NUTS AGAINST WOOD.
- THE BOLTS FOR PLATES SHALL BE PLACED 8" FROM THE END OF A PLATE AND PLACED AT INTERVALS NOTED ON THE PLAN.
- DO NOT NOTCH BOTTOMS OF WOOD MEMBERS, EXCEPT WHERE SHOWN IN DETAILS. OBTAIN A/E APPROVAL FOR ANY HOLES IN ALL WOOD MEMBERS EXCEPT AS NOTED BELOW. HOLES THROUGH SILLS, PLATES, STUDS, AND DOUBLE PLATES IN INTERIOR, BEARING AND SHEAR WALLS SHALL NOT EXCEED ONE-THIRD THE PLATE WIDTH AND SHALL BE BORED HOLES PLACED IN THE CENTER OF THE STUD OR PLATE. NOTCHING IS NOT PERMITTED.
- ALL NAILS SHALL BE COMMON WIRE NAILS. WHERE DRIVING OF NAILS CAUSES SPLITTING, HOLES FOR THE NAILS SHALL BE SUB DRILLED.
- NAILED CONNECTIONS SHALL CONFORM TO TABLE 2304.9.1 OF THE 2012 IBC, U.N.O.
  - END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH TO AVOID SPLITTING OF THE WOOD.
  - THE PENETRATION OF NAILS INTO THE PIECE RECEIVING THE POINT SHALL BE NOT LESS THAN ONE-HALF THE LENGTH OF THE NAIL PROVIDED, HOWEVER, 16D NAILS MAY BE USED TO CONNECT PIECES OF 2" NOMINAL THICKNESS.
  - NAILING NOT NOTED SHALL BE AT LEAST TWO NAILS AT ALL CONTACT POINTS USING 8D NAILS THROUGH 1" MATERIAL AND 16D NAILS THROUGH 2" MATERIAL.
- PROVIDE A MINIMUM 1/8" GAP BETWEEN ALL PLYWOOD ROOF SHEATHING.
- SPLICE DOUBLE TOP PLATES WITH MINIMUM 4" OVERLAP WITH MINIMUM 8-16D NAILS EACH SIDE OF THE JOINT.
- ALL CONNECTORS, NAILS AND CONNECTION MATERIAL INCLUDING ANCHOR BOLTS, IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE HOT-DIP GALVANIZED WITH A MINIMUM 185 COATING, TYPE 304 STAINLESS STEEL, OR TYPE 316 STAINLESS STEEL. DO NOT USE STAINLESS STEEL IN CONTACT WITH HOT-DIPPED GALVANIZED STEEL.

### G. PREFABRICATED WOOD TRUSSES:

- THE DESIGN OF PREFABRICATED WOOD TRUSSES SHALL BE BASED ON THE 2012 EDITION OF THE NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION.
- THE PREFABRICATED WOOD TRUSS MANUFACTURER SHALL:
  - DESIGN FOR THE FORCES INDICATED IN THE DRAWINGS.
  - PROVIDED TRUSSES AT THE INDICATED SPACING. WHEN SINGLE PLY TRUSSES ARE INSUFFICIENT PROVIDE MULTI-PLY TRUSSES.
  - DESIGN TRUSS MEMBERS UTILIZING #2 GRADE LUMBER OR BETTER.
  - DESIGN AND PROVIDE ALL PERMANENT BRACING REQUIRED FOR THE STABILITY OF THE TRUSSES.
  - DESIGN AND PROVIDE CONNECTOR MATERIAL AS REQUIRED TO FASTEN TRUSSES TO SUPPORTING STRUCTURAL ELEMENTS AND OTHER CONNECTOR MATERIAL REQUIRED BY THE TRUSS DESIGN BUT NOT SHOWN ON THE DRAWINGS.
  - ATTACH TAGS TO THE TRUSSES INDICATING LOCATIONS WHERE WEB BRACING AND PERMANENT LATERAL BRACING IS TO BE INSTALLED.
- EXERCISE CARE DURING LIFTING OPERATIONS TO PREVENT FLAT WISE BENDING OF THE TRUSSES. TRUSSES ARE NOT DESIGNED TO BEND IN THIS FASHION; BUCKLING OF MEMBERS OR DAMAGE TO THE C CONNECTIONS MAY OCCUR.
- IN ORDER TO DEVELOP THE DESIGN CAPACITY, PREFABRICATED ROOF TRUSSES SHALL BE INSTALLED PLUMB AND STRAIGHT. THE PLUMB AND STRAIGHTNESS OF EACH TRUSS SHALL BE VERIFIED. TRUSSES SHALL BE HELD IN CORRECT ALIGNMENT WITH THE SPECIFIED TEMPORARY AND PERMANENT BRACING UNTIL SHEATHING IS INSTALLED.
- DO NOT PLACE LOADS ON TRUSSES UNTIL ALL SPECIFIED BRACING HAS BEEN INSTALLED AND THE SHEATHING PERMANENTLY ANCHORED. BUNDLES OF PLYWOOD SHALL NOT BE PLACED ON TRUSSES; LIFT PLYWOOD SHEETS ONTO ROOF ONLY AS REQUIRED DURING THE SHEATHING PROCESS.
- ROOF SHEATHING SHALL BE CONTINUOUS UNDER VALLEY SETS. ATTACH VALLEY JACKS TO SUPPORTING TRUSSES AS REQUIRED BY THE TRUSS MANUFACTURER.



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### CONSTRUCTION DOCUMENTS

PROJECT NO.

2114

PROJECT NAME

NEW SENIOR CENTER

DATE

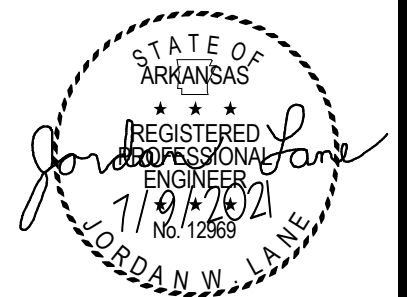
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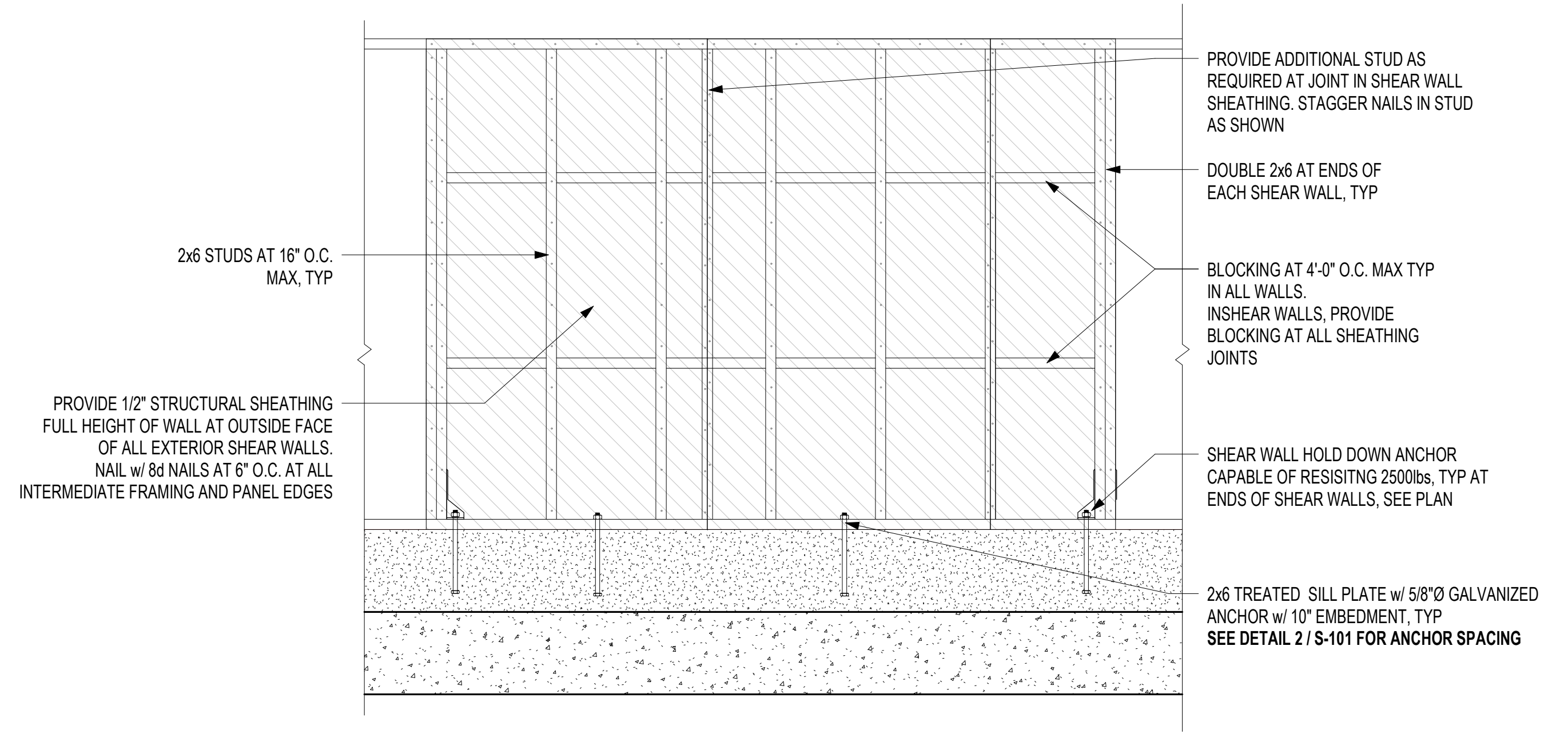
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GENERAL NOTES

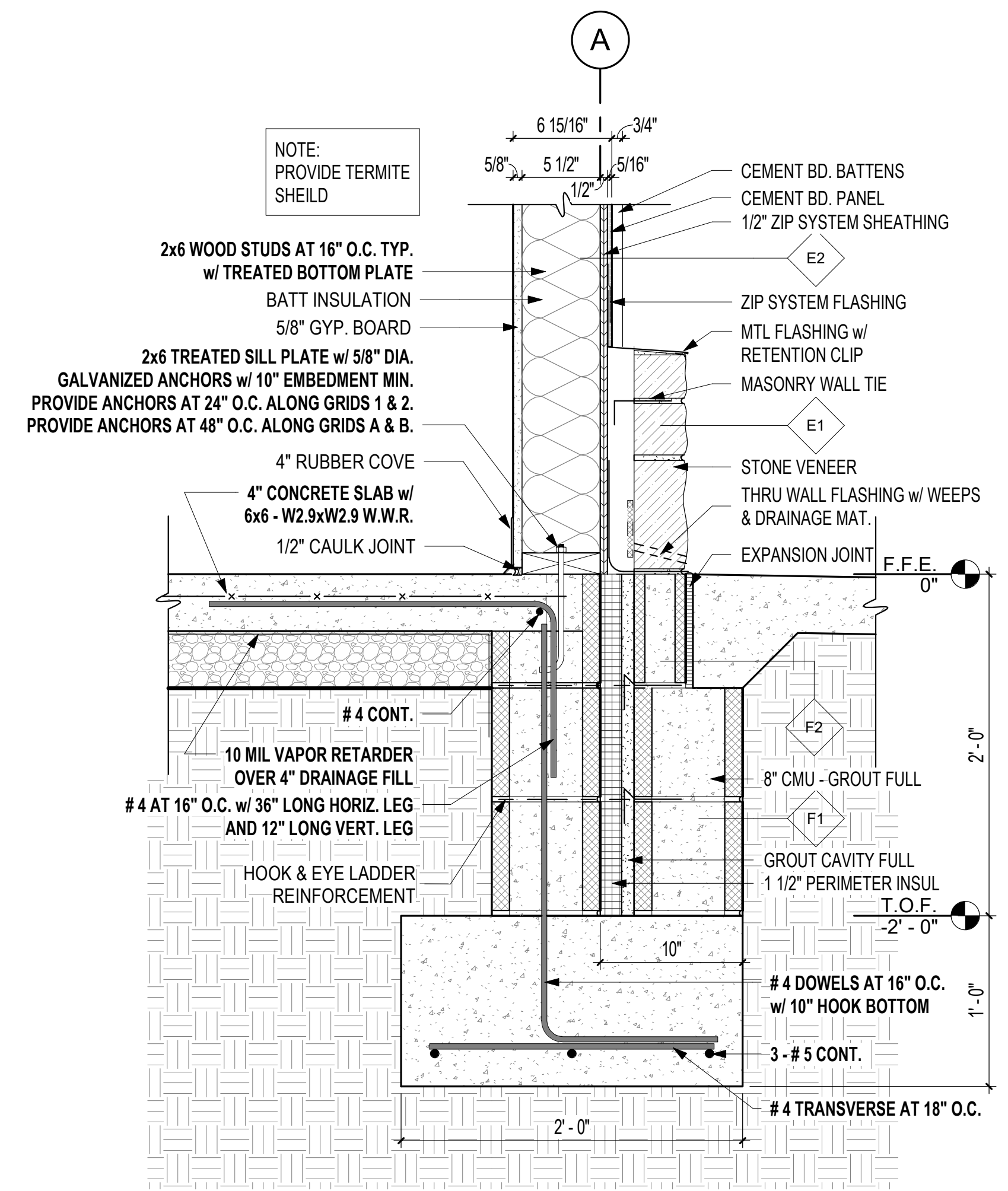
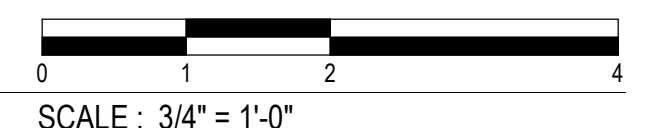
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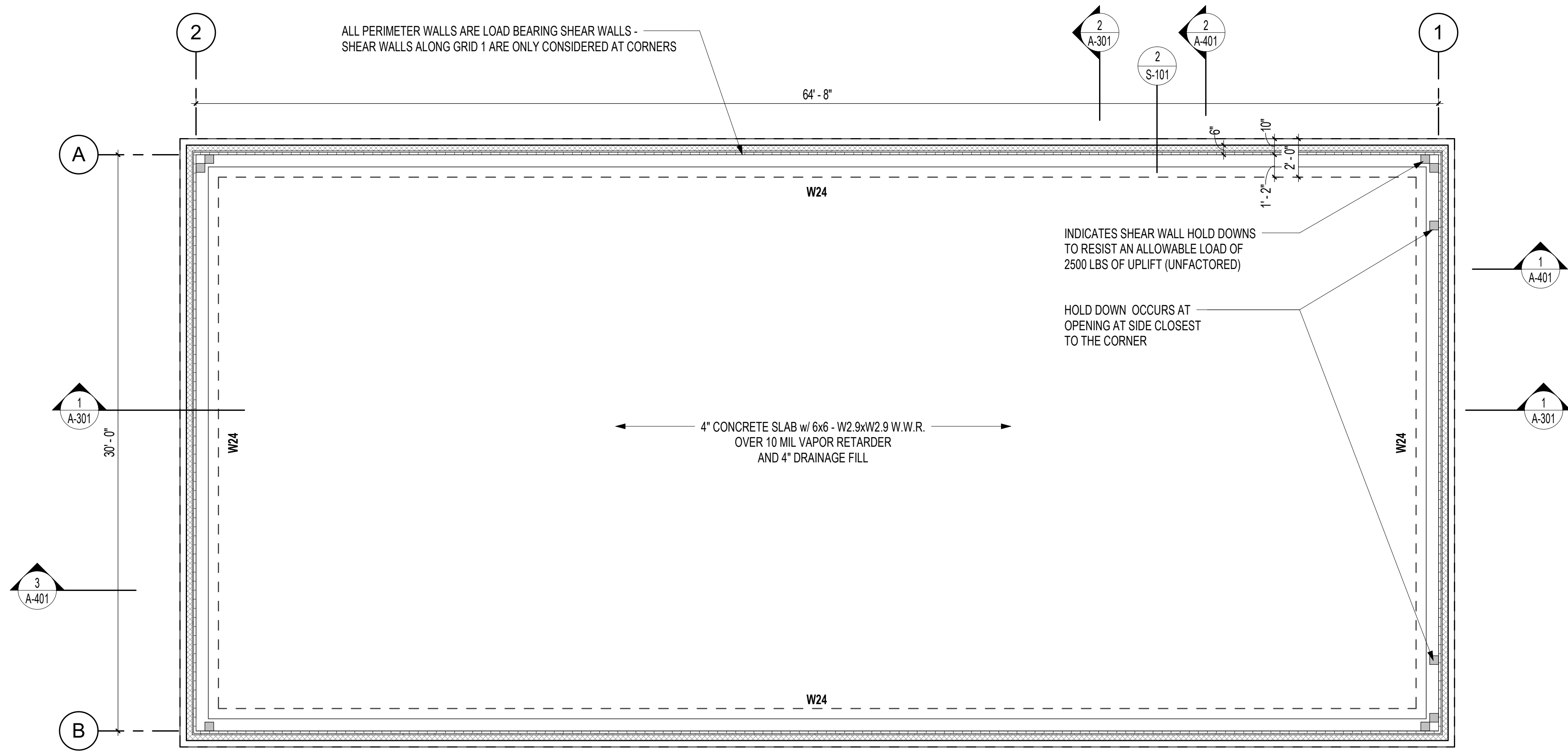
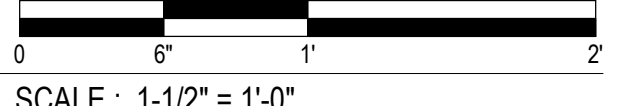




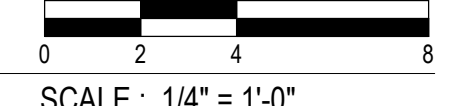
3 TYPICAL SHEAR WALL DETAIL  
3/4" = 1'-0"



2 FOUNDATION & WALL BASE DETAIL  
1 1/2" = 1'-0" 1 / A-101



1 FOUNDATION PLAN  
1/4" = 1'-0"



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CONTENTS FOUNDATION PLAN

SHEET NUMBER

S-101





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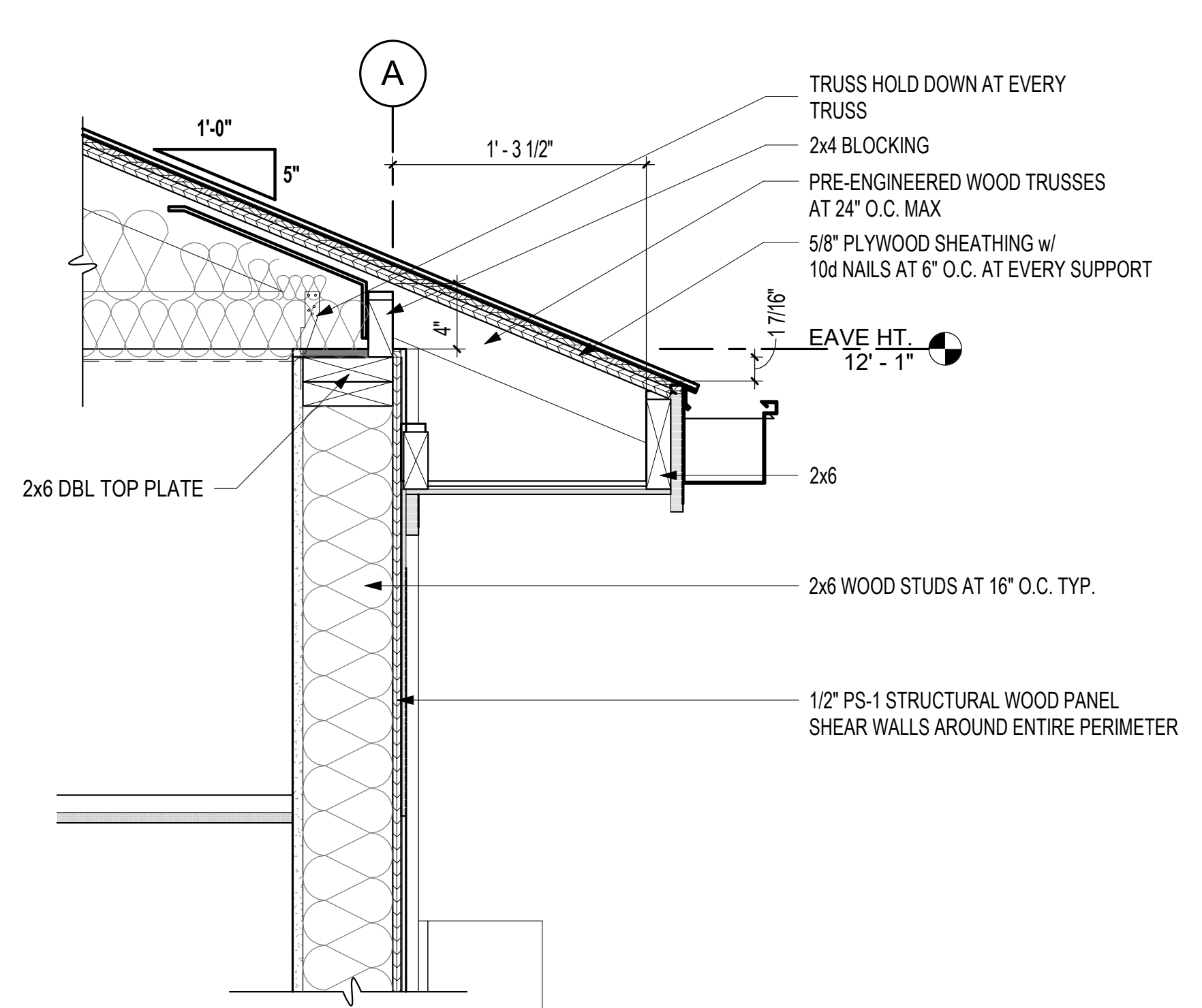
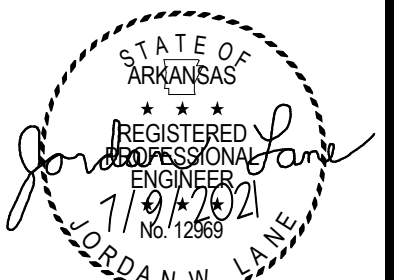
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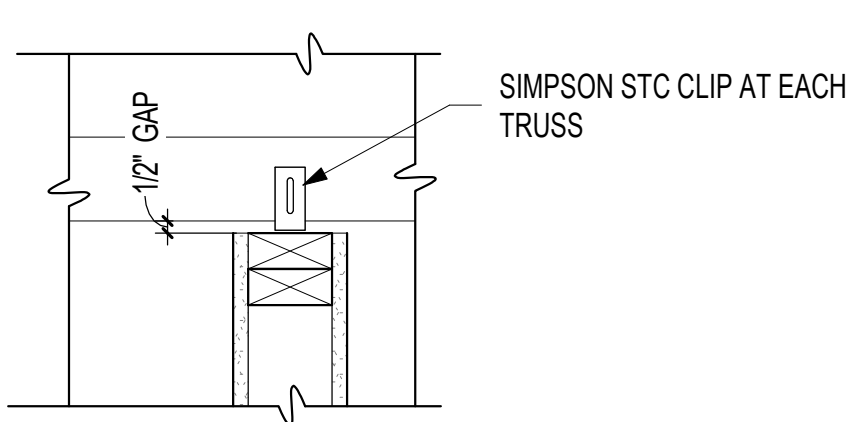
ROOF FRAMING PLAN

SHEET NUMBER \_\_\_\_\_

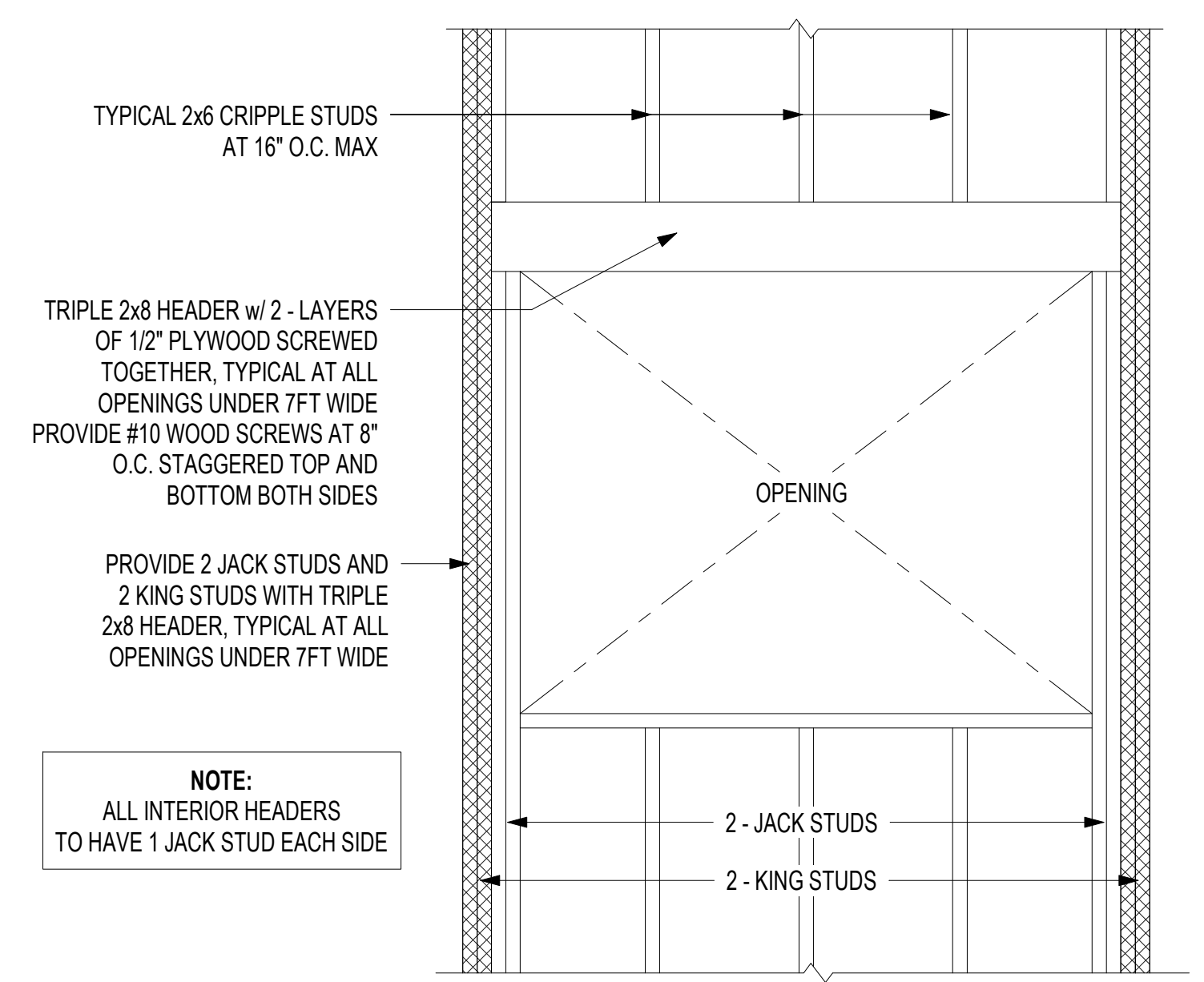
**S-201**



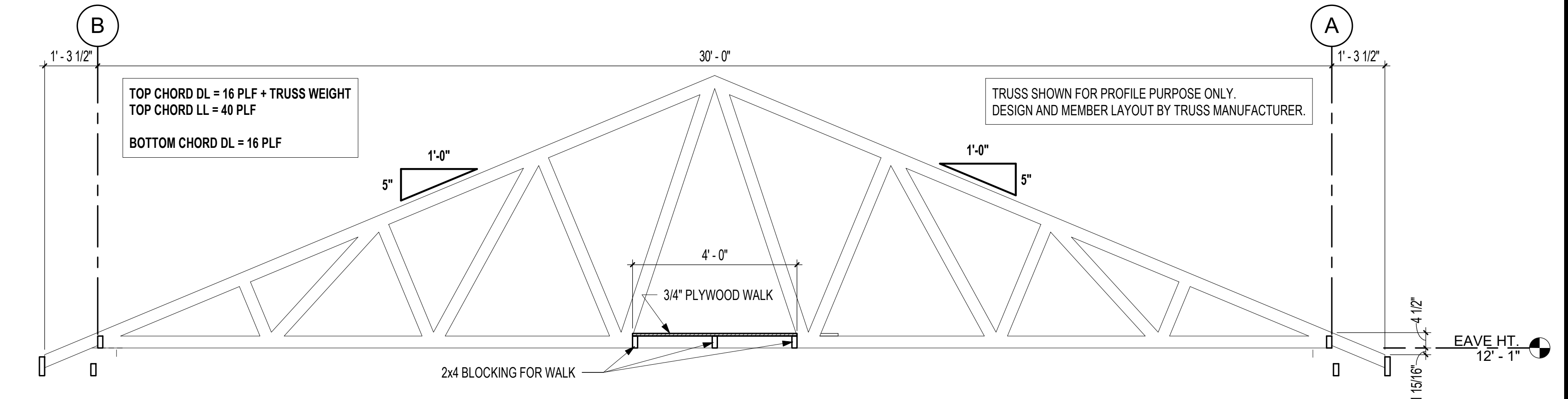
**2 STRUCTURAL EAVE DETAIL**  
1 1/2" = 1'-0"  
1 / A-102  
SCALE: 1-1/2" = 1'-0"



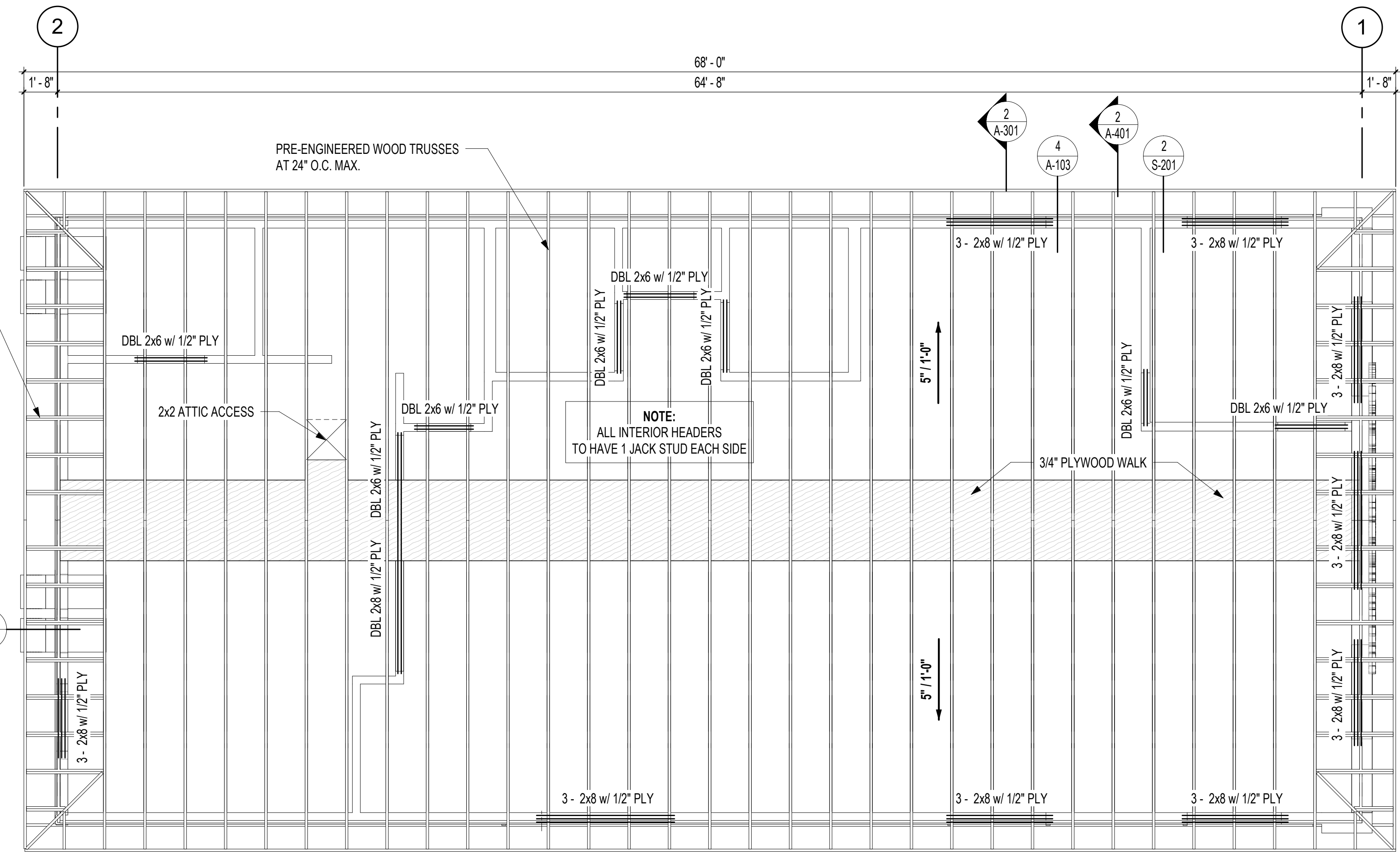
**4 NON-BEARING WALL TO TRUSS DETAIL**  
1 1/2" = 1'-0"



**5 EXT. HEADER DETAIL AT OPENINGS LESS THAN 7FT WIDE**  
3/4" = 1'-0"  
SCALE: 3/4" = 1'-0"



**3 TRUSS ELEVATION**  
1/2" = 1'-0"  
SCALE: 1/2" = 1'-0"



**1 ROOF FRAMING PLAN**  
1/4" = 1'-0"  
NORTH

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

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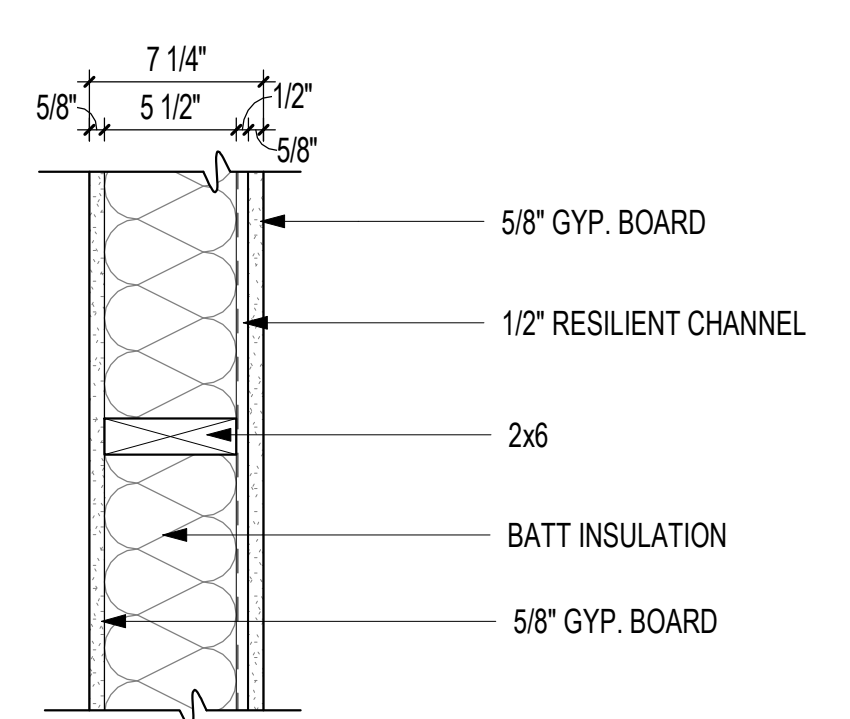
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PARTITION TYPES AND PLAN DETAILS

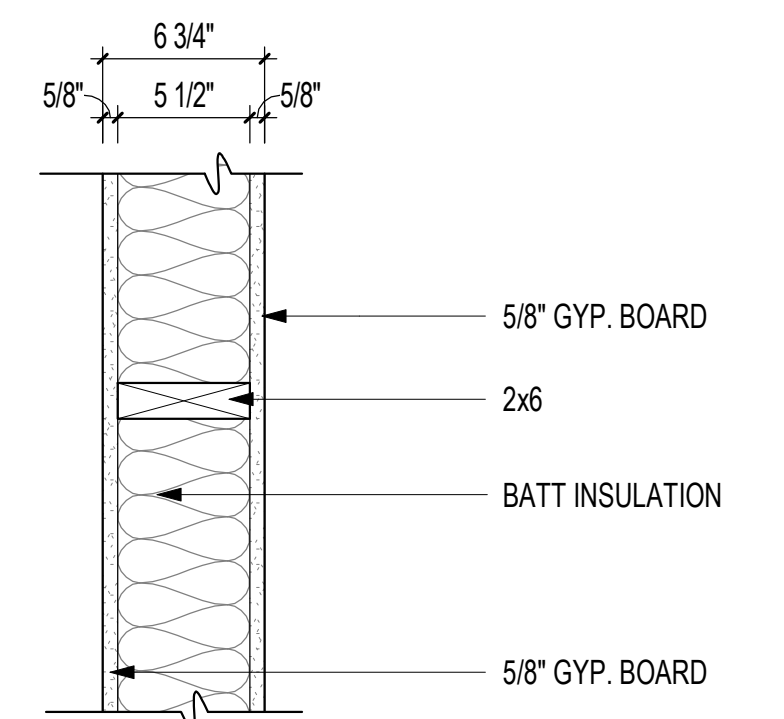
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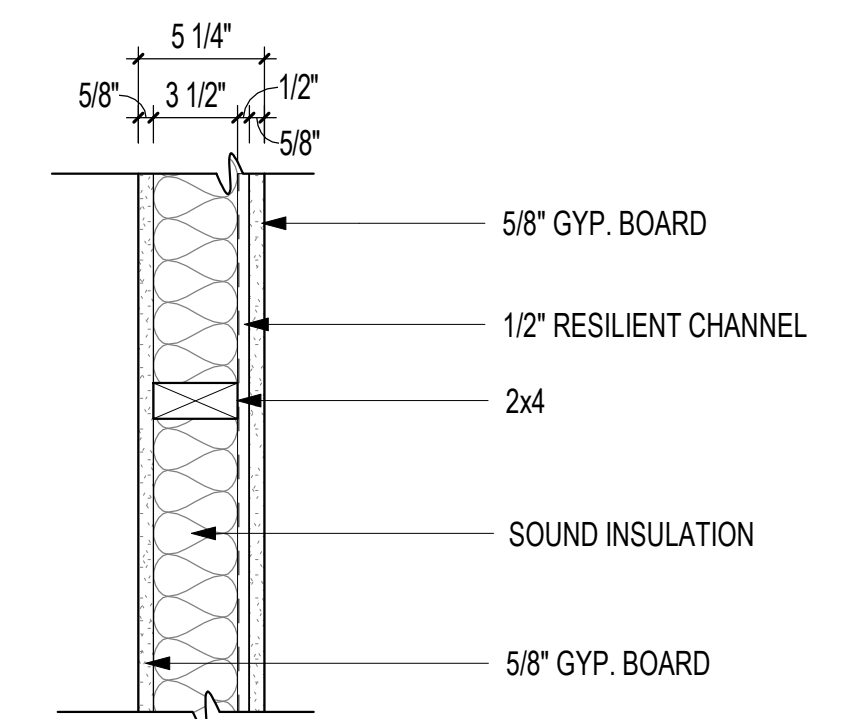
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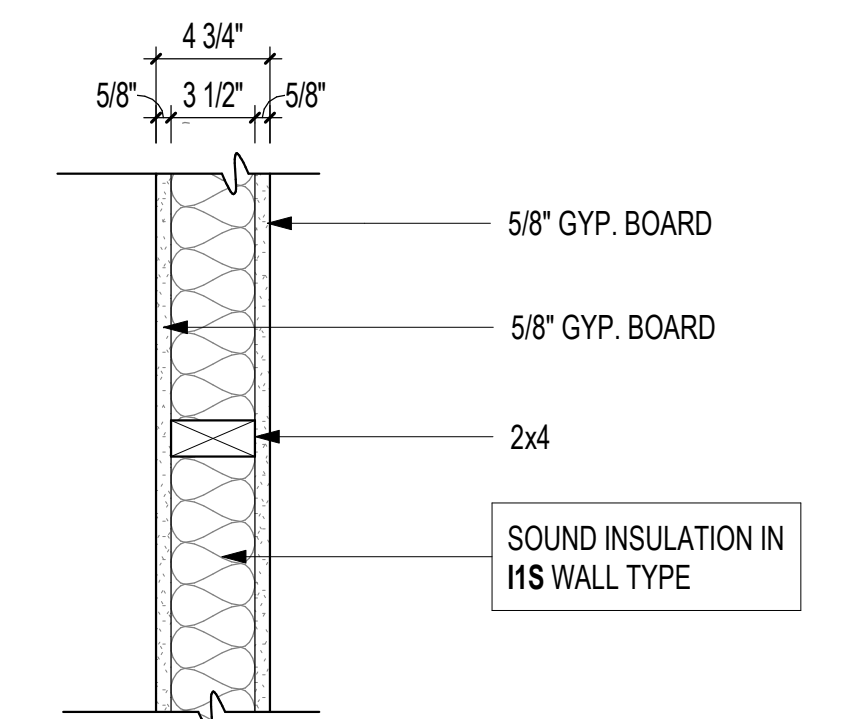
**I2Z** I-W6S/G.6/SC.5/G.6  
1 1/2" = 1'-0"



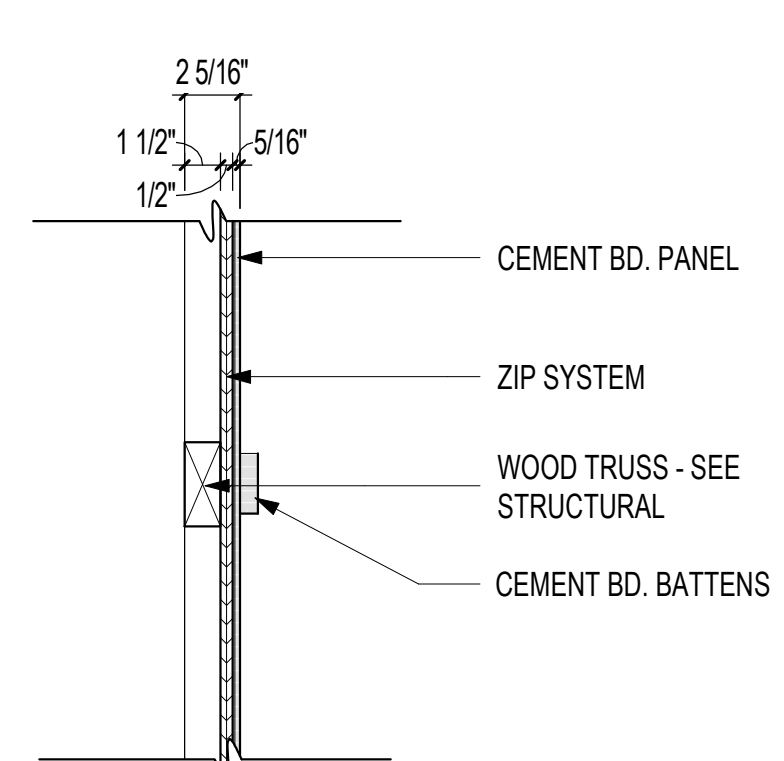
**I2S** I-W6S/G.6x\*2  
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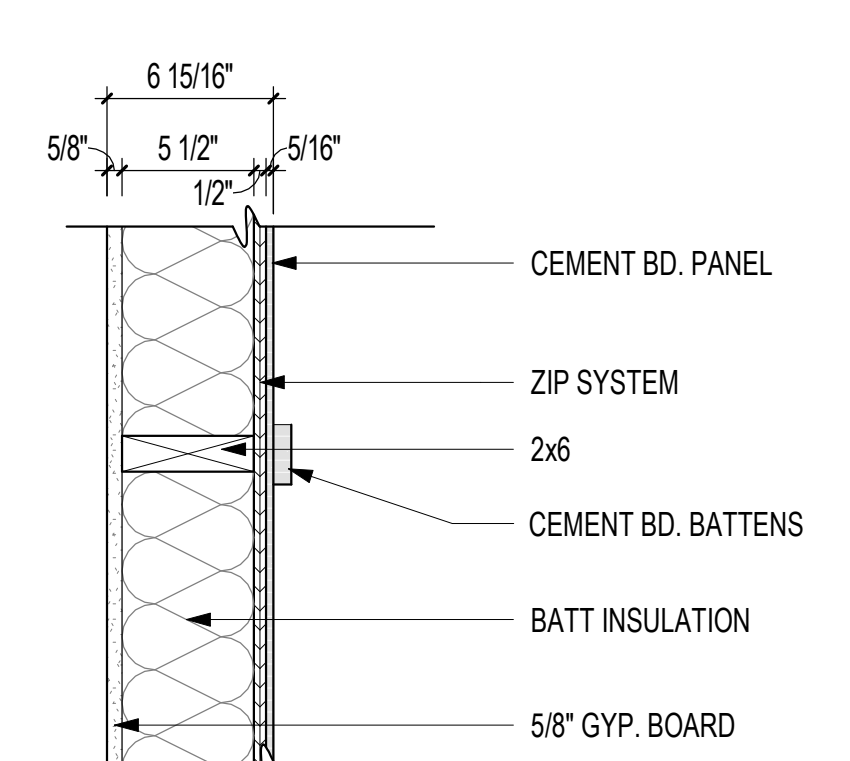
**I1Z** I-W4S/G.6/SC.5/G.6  
1 1/2" = 1'-0"



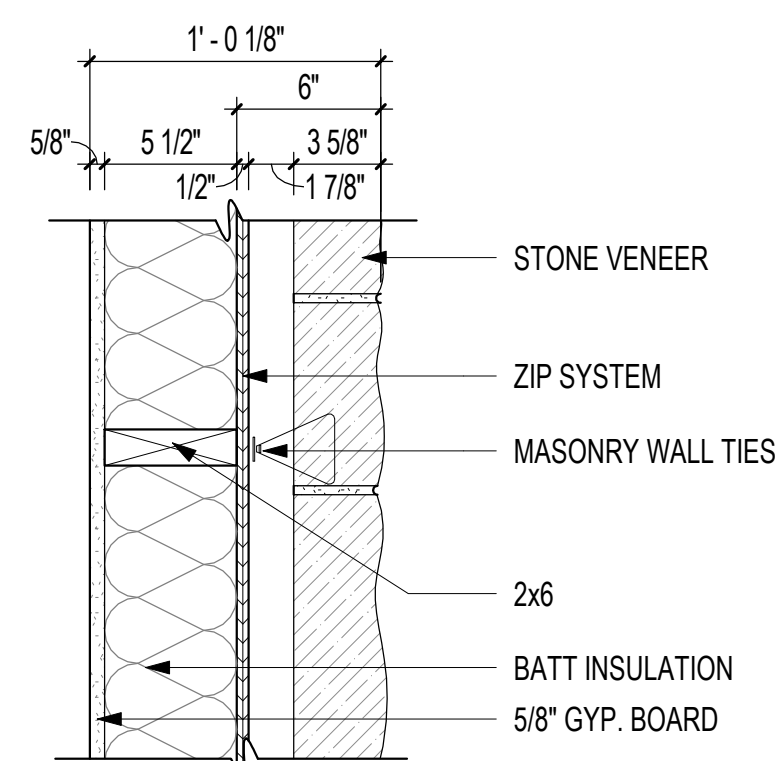
**I1** I-W4/G.6/G.6&S  
1 1/2" = 1'-0"



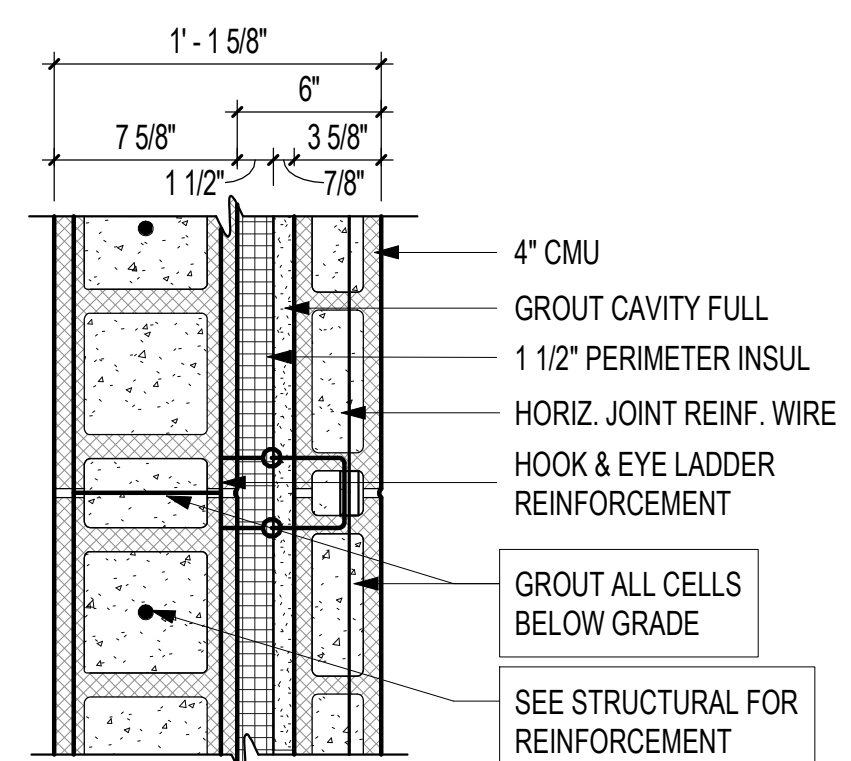
**E3** EXTERIOR WALL TYPE E3  
1 1/2" = 1'-0"



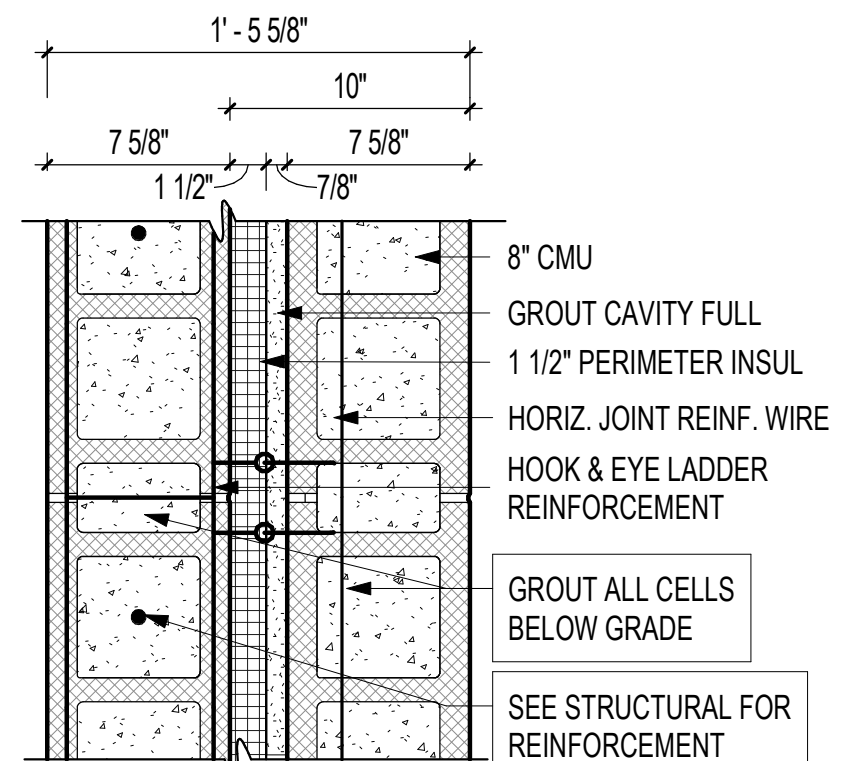
**E2** EXTERIOR WALL TYPE E2  
1 1/2" = 1'-0"



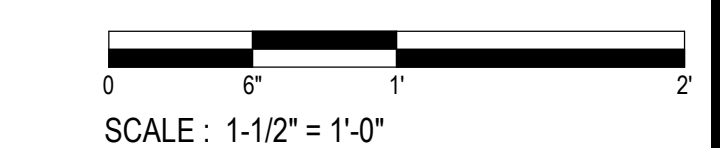
**E1** EXTERIOR WALL TYPE E1  
1 1/2" = 1'-0"



**F2** EXTERIOR WALL TYPE F2  
1 1/2" = 1'-0"



**F1** FOUNDATION WALL TYPE F1  
1 1/2" = 1'-0"

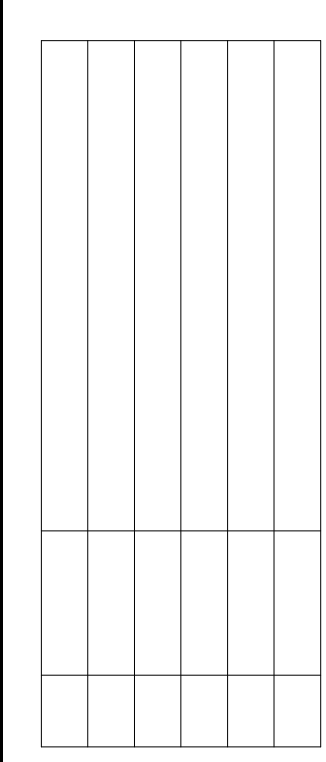


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REFLECTED CEILING PLAN

SHEET NUMBER  
A-102

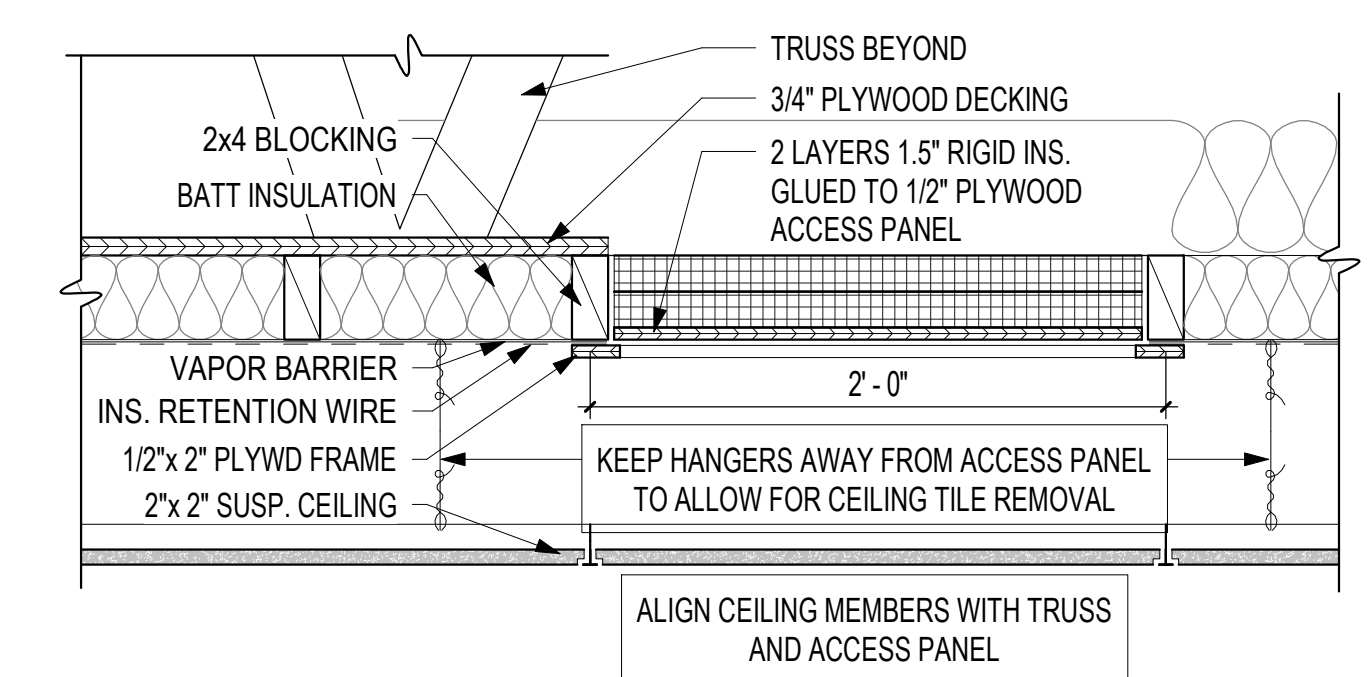
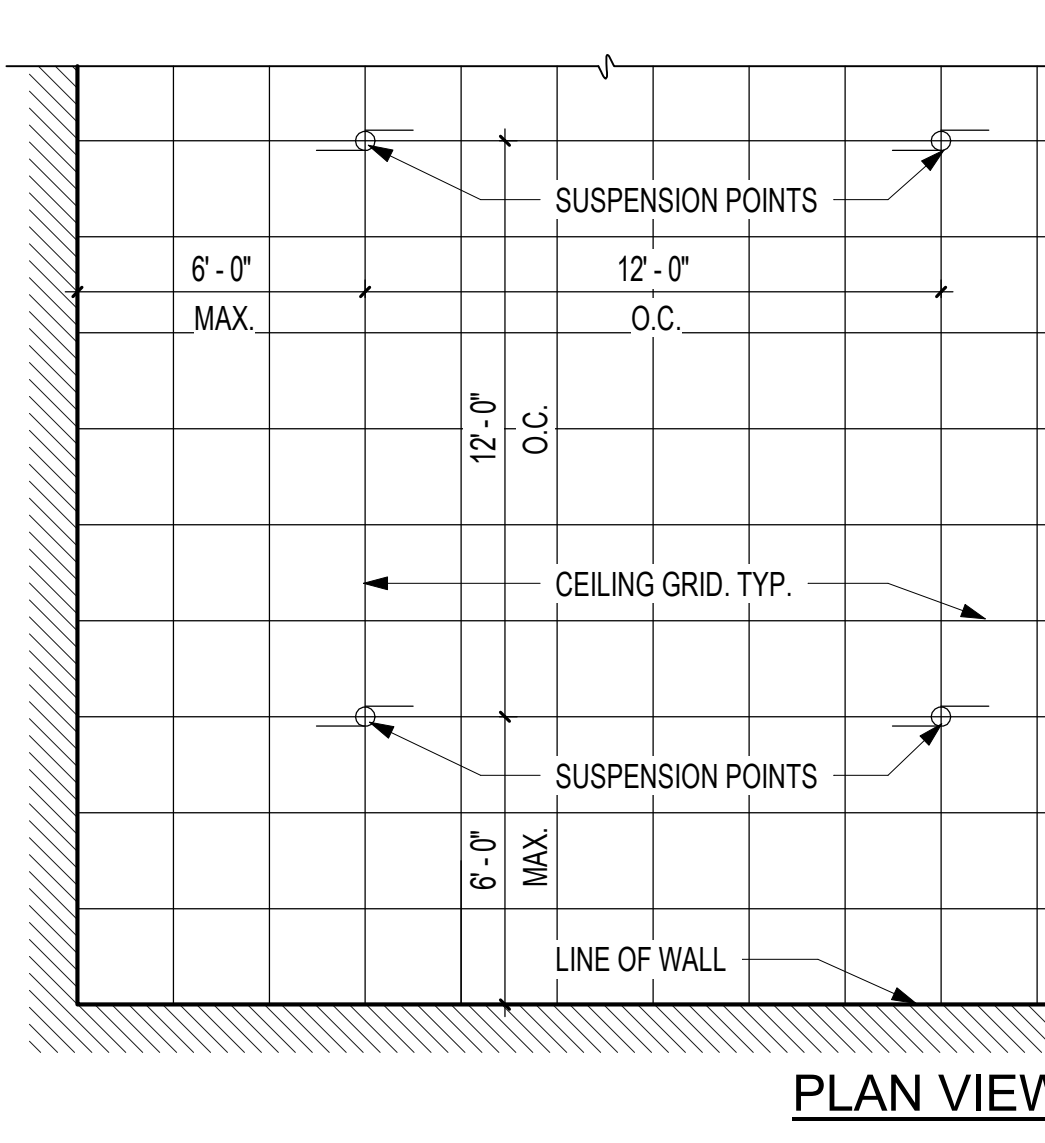
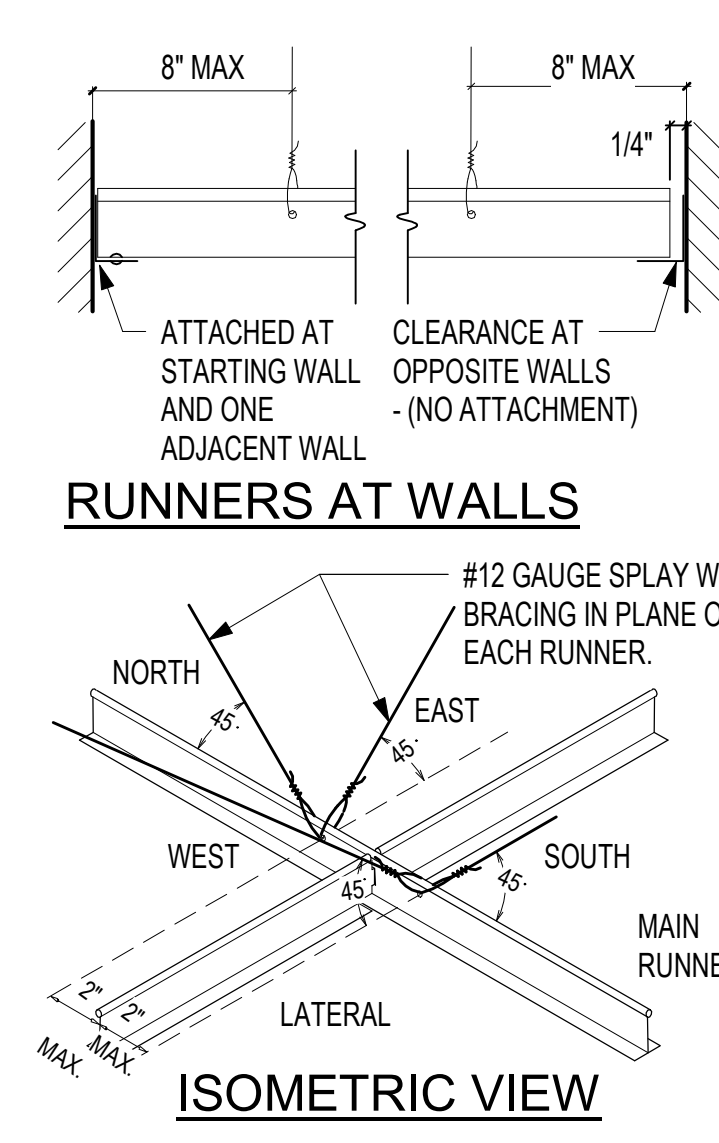
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### SHEET NOTES - CLG PLAN

1. ALL CEILING HEIGHT NOTATIONS TAKEN FROM FINISHED FLOOR ELEVATION OF THIS LEVEL UNLESS NOTED OTHERWISE.
2. ALL LAY-IN CEILING GRIDS SHALL BE CENTERED IN ROOM AS GRAPHICALLY SHOWN IN PLAN, UNLESS DIMENSIONED OTHERWISE.

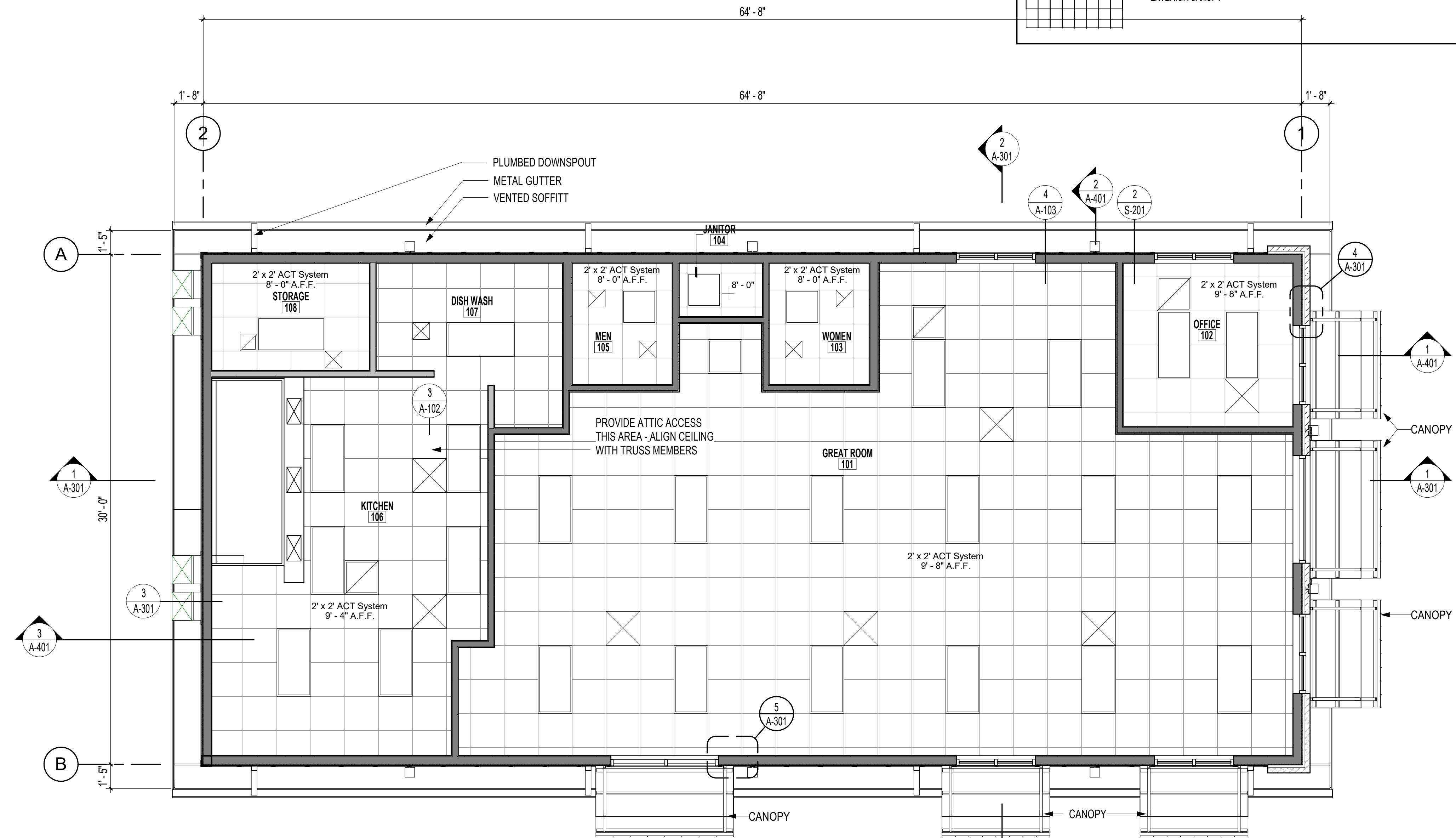
### LEGEND - CEILING PLAN

- 2 x 2 ACOUSTICAL CEILING TILE
- 2x4 TROFFER LIGHT FIXTURE
- 2x2 EXTERIOR TROFFER LIGHT FIXTURE
- EXTERIOR WALL PACK LIGHT
- EXTERIOR CANOPY



**3** ATTIC ACCESS DETAIL  
1 1/2" = 1'-0" 1 / A-102

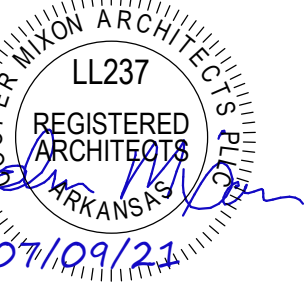
**2** SEISMIC CEILING DETAIL  
1/4" = 1'-0"



**1** REFLECTED CEILING PLAN  
1/4" = 1'-0"  
SCALE: 1/4" = 1'-0"

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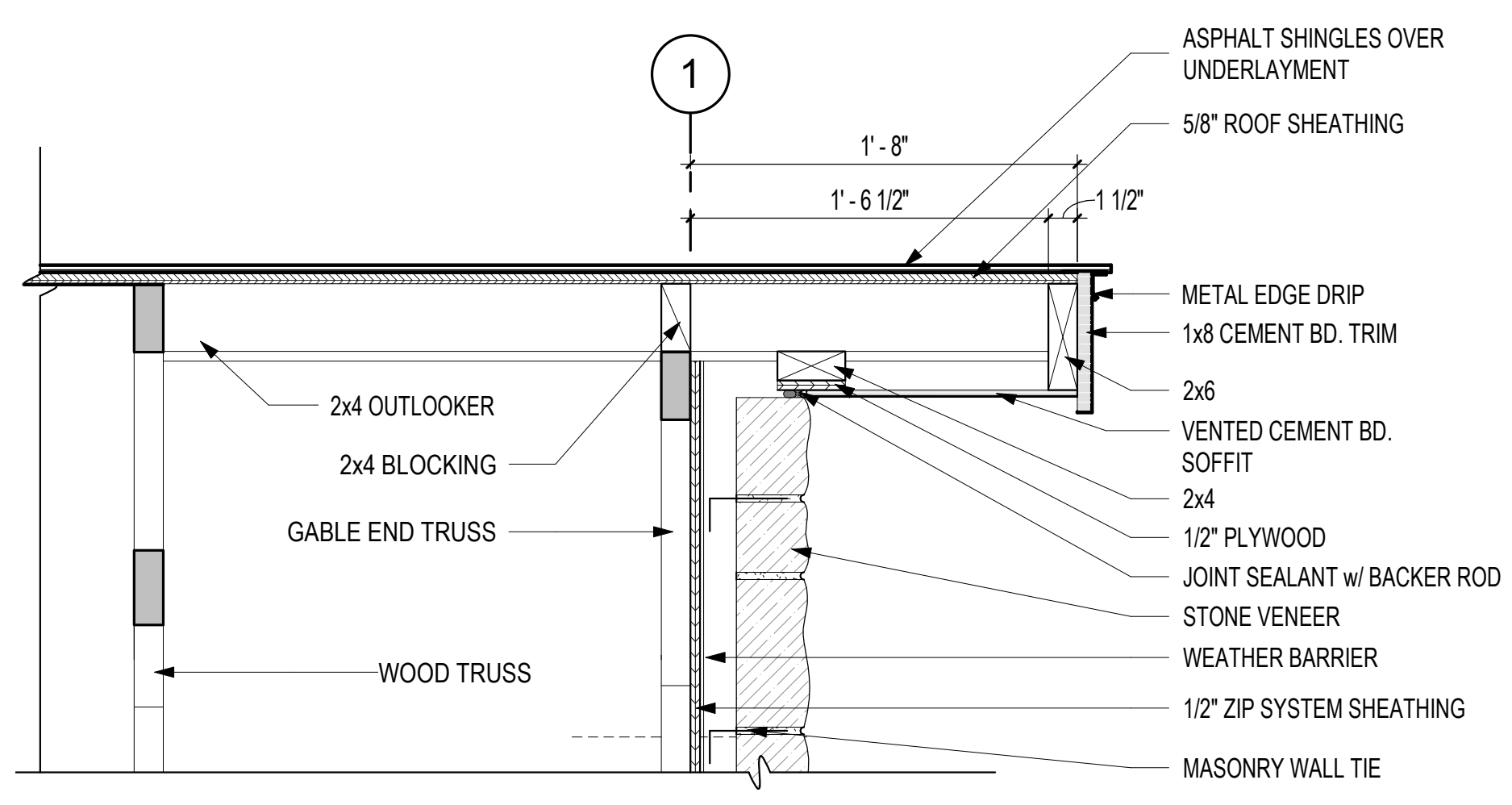
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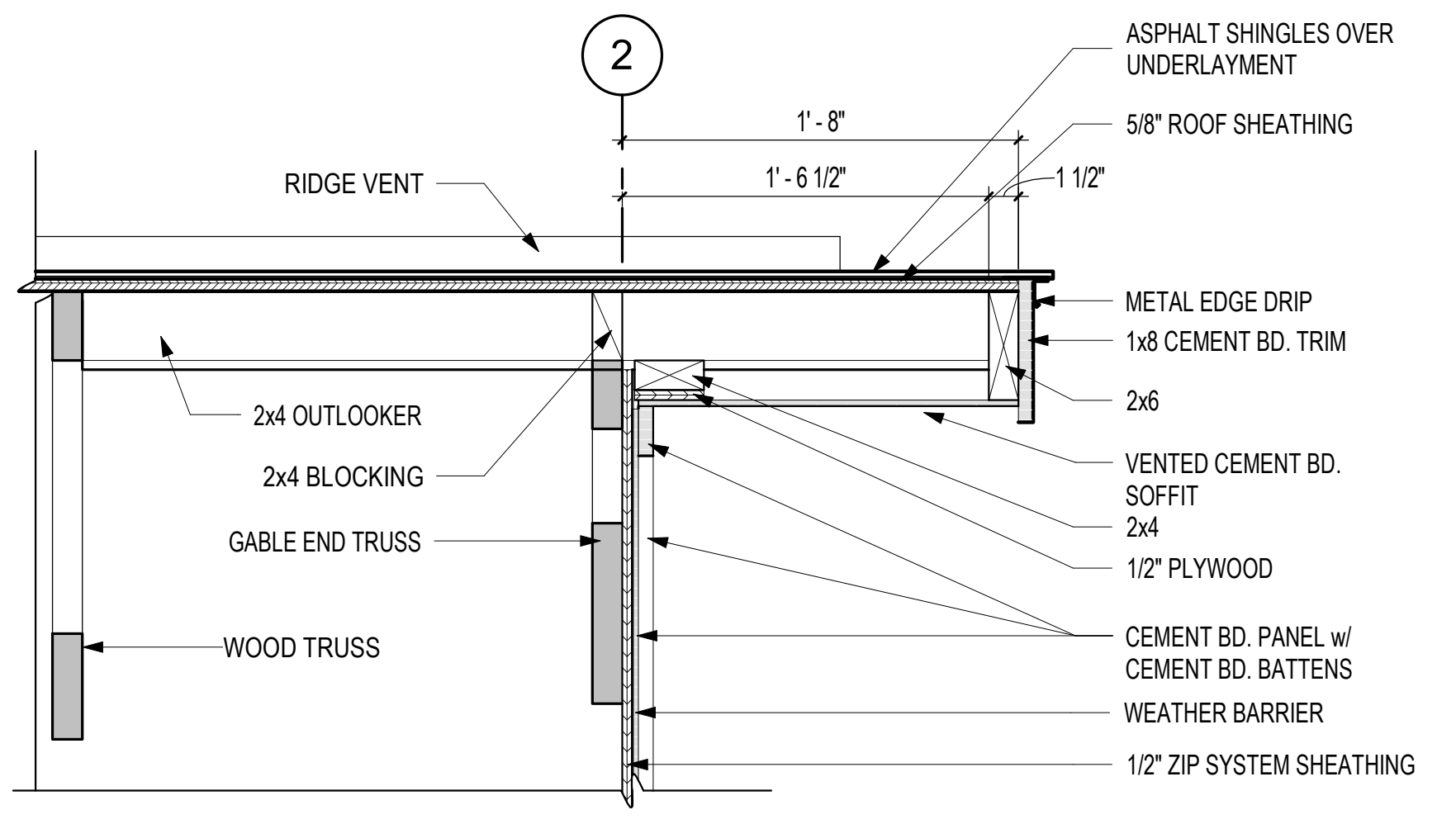
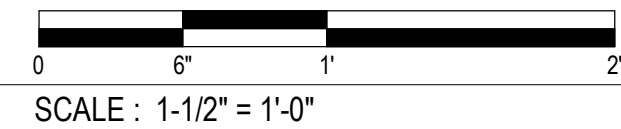
CONTENTS  
ROOF PLAN

SHEET NUMBER

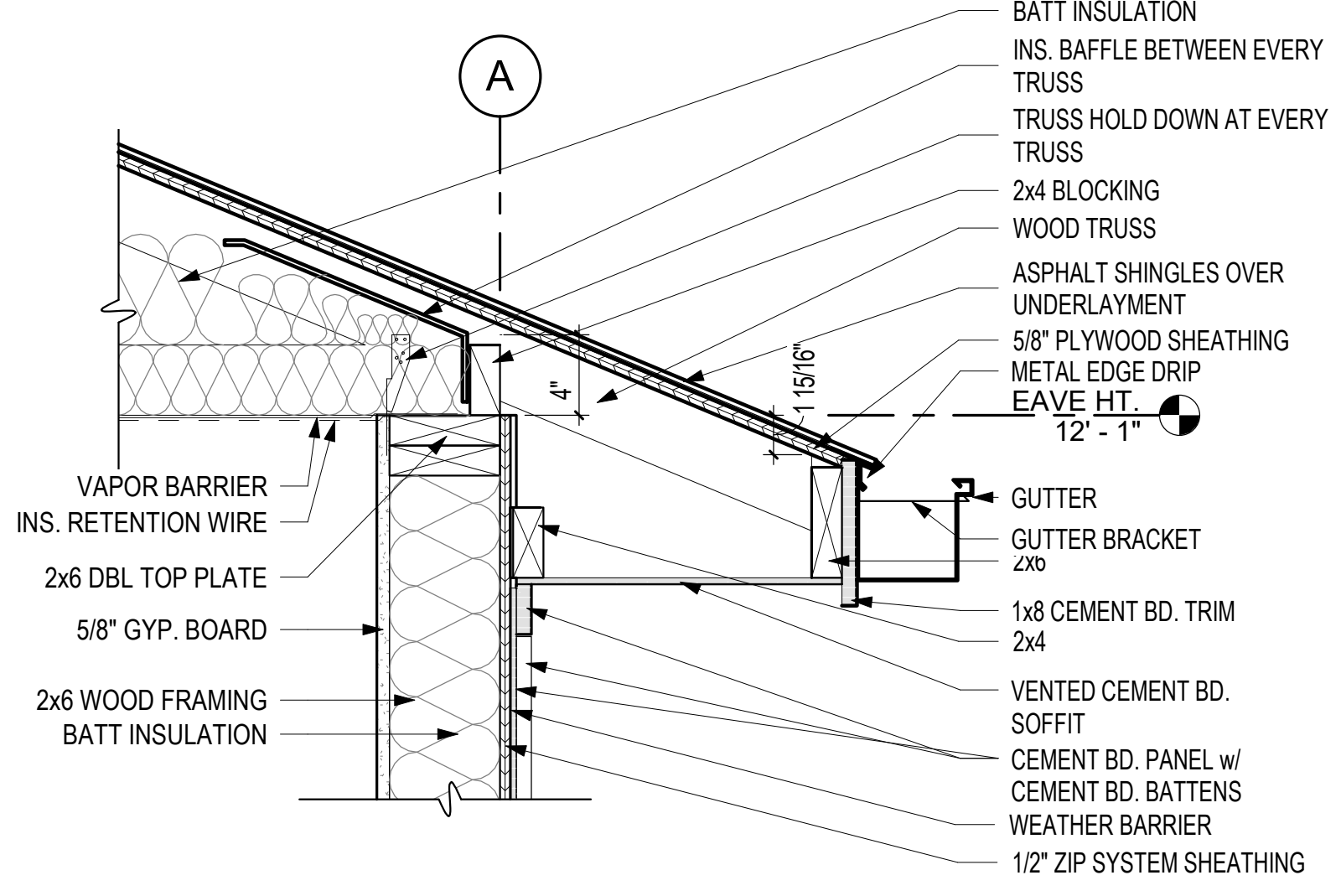
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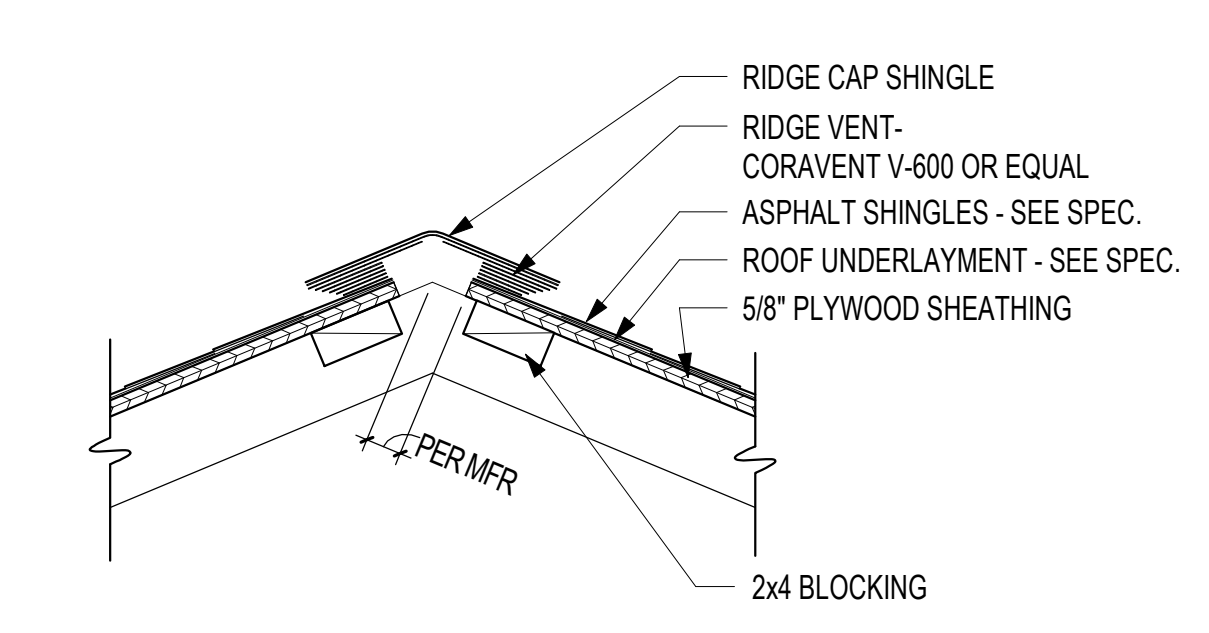
**2 EAST RAKE DETAIL**  
1 1/2" = 1'-0" 1 / A-103



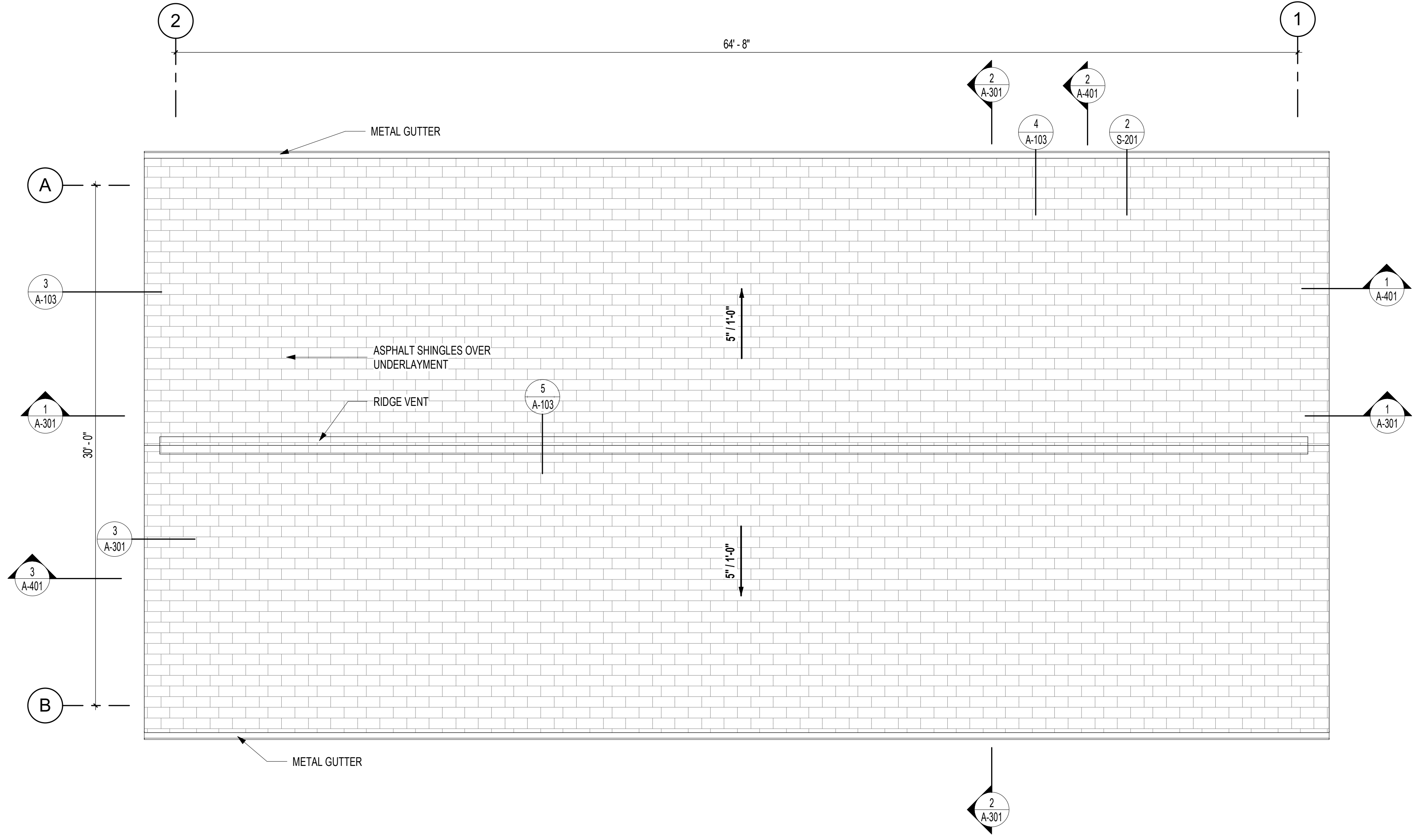
**3 WEST RAKE DETAIL**  
1 1/2" = 1'-0" 1 / A-103



**4 EAVE DETAIL**  
1 1/2" = 1'-0" 1 / A-102



**5 RIDGE VENT AT ASPHALT SHINGLES**  
1 1/2" = 1'-0" 1 / A-103

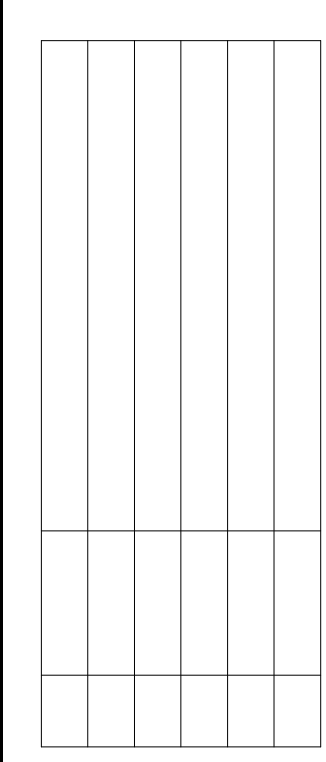


**1 ROOF PLAN**  
1/4" = 1'-0" SCALE: 1/4" = 1'-0"



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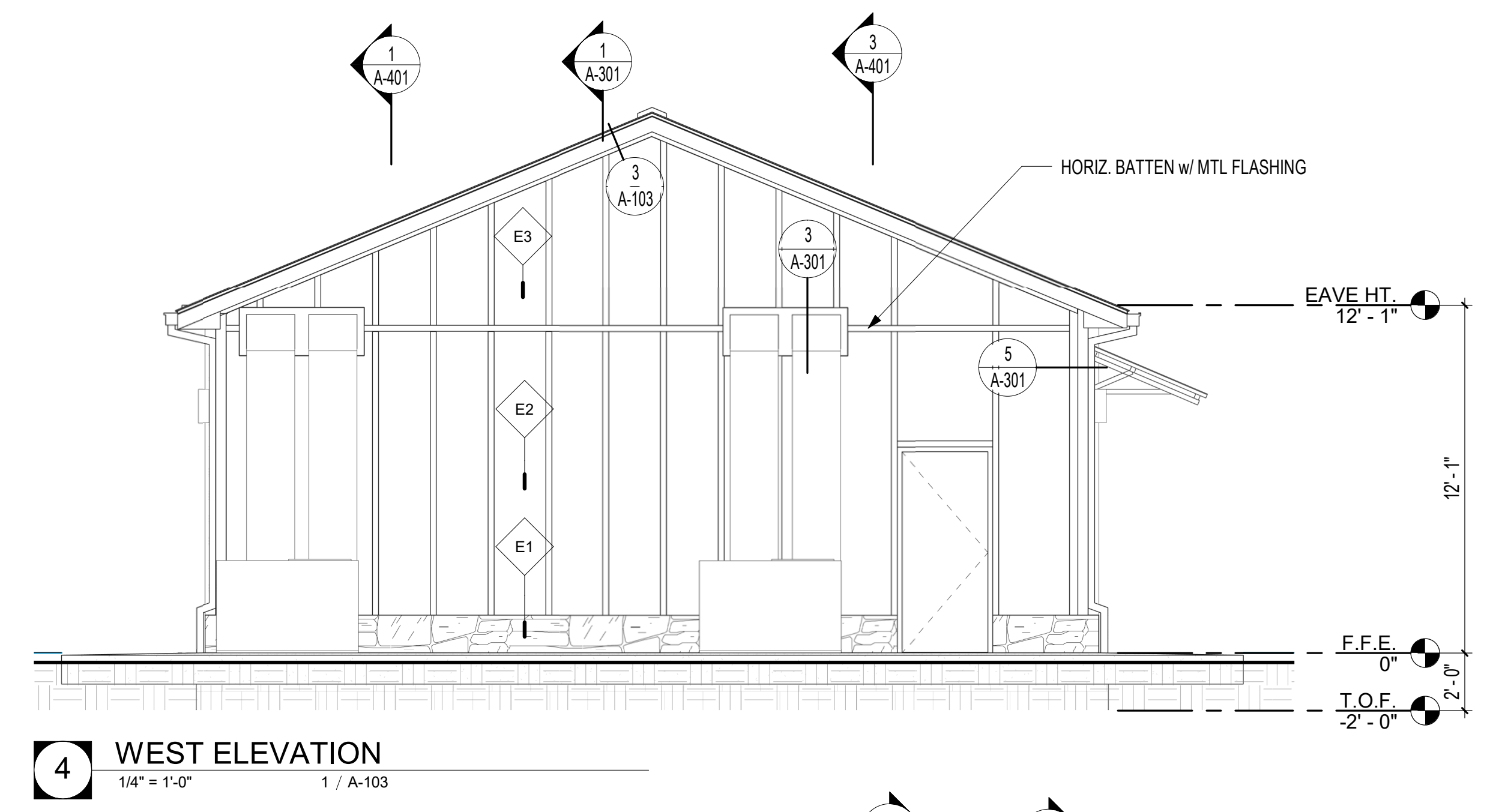


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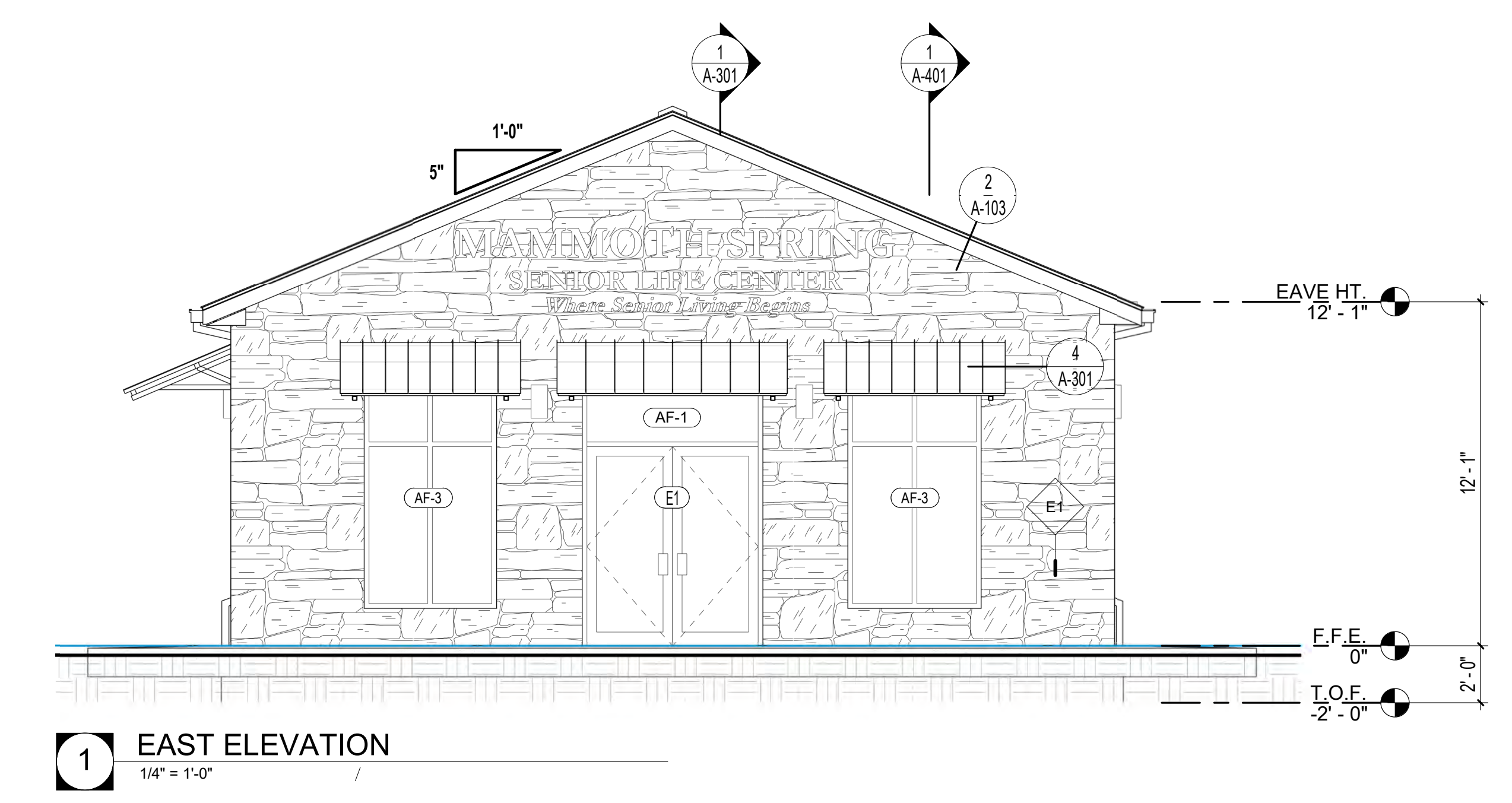
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DATE 07/09/21  
CONTENTS EXTERIOR ELEVATIONS

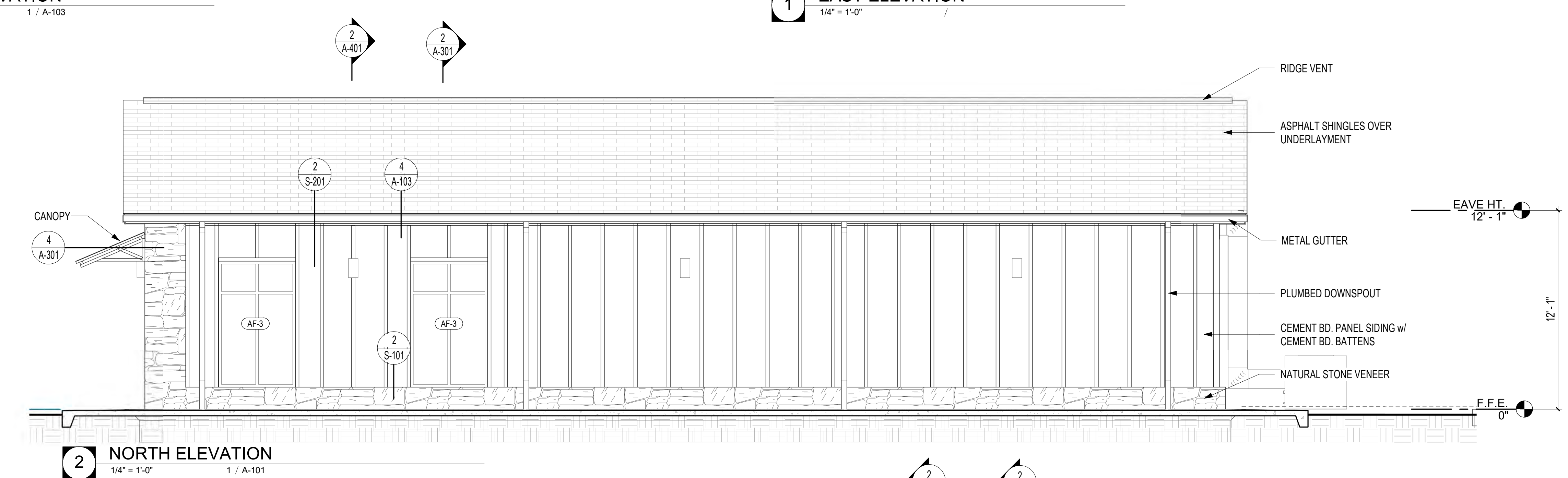
SHEET NUMBER  
A-201



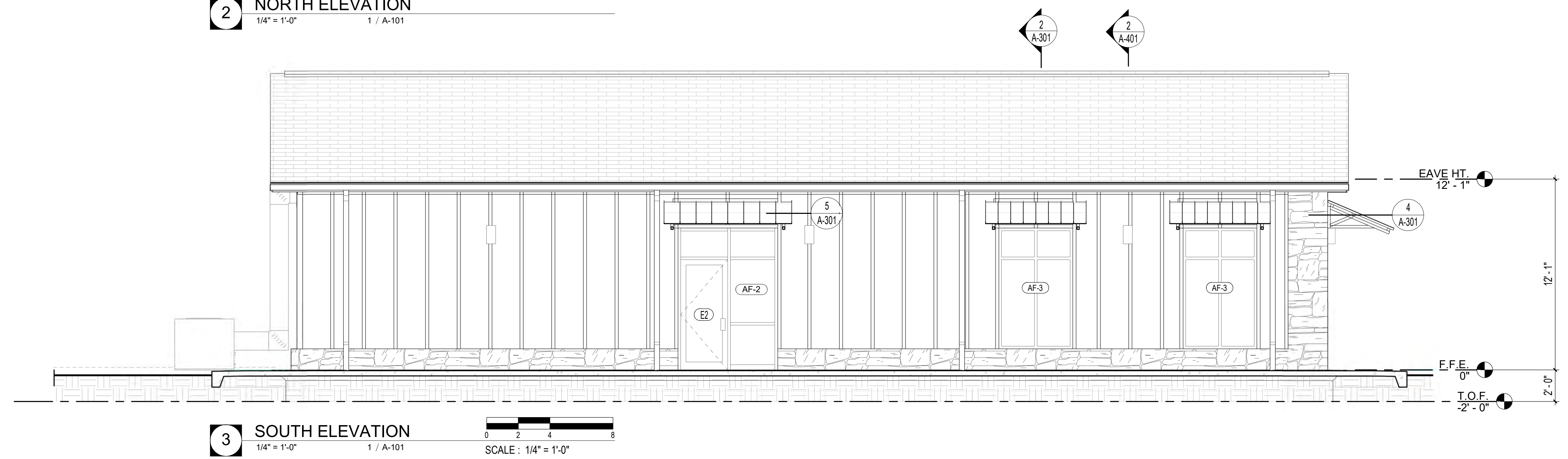
4 WEST ELEVATION  
1/4" = 1'-0" 1 / A-103



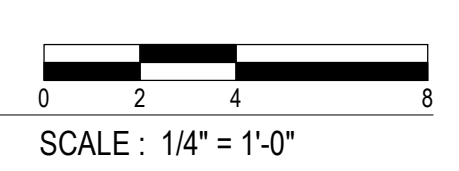
1 EAST ELEVATION  
1/4" = 1'-0"



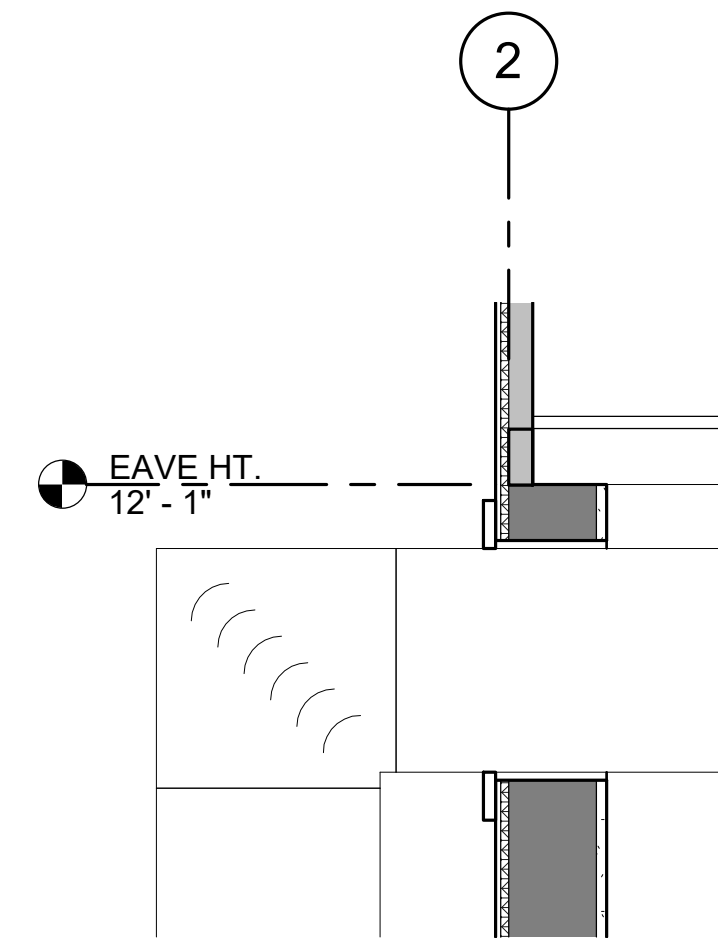
2 NORTH ELEVATION  
1/4" = 1'-0" 1 / A-101



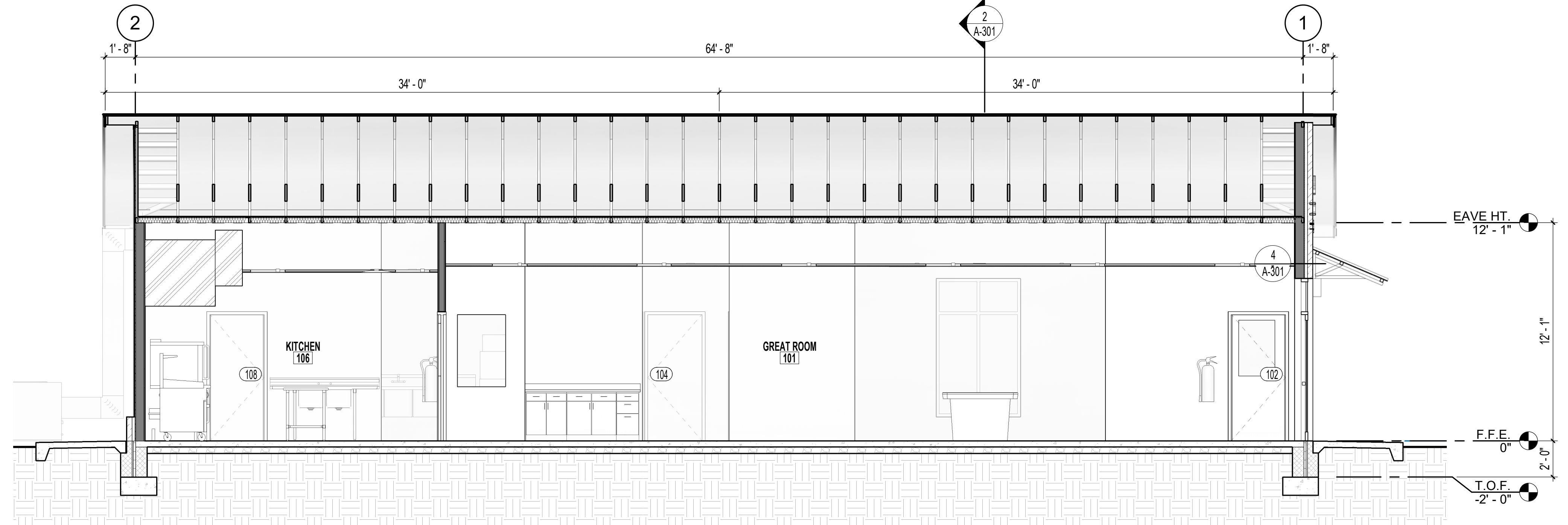
3 SOUTH ELEVATION  
1/4" = 1'-0" 1 / A-101



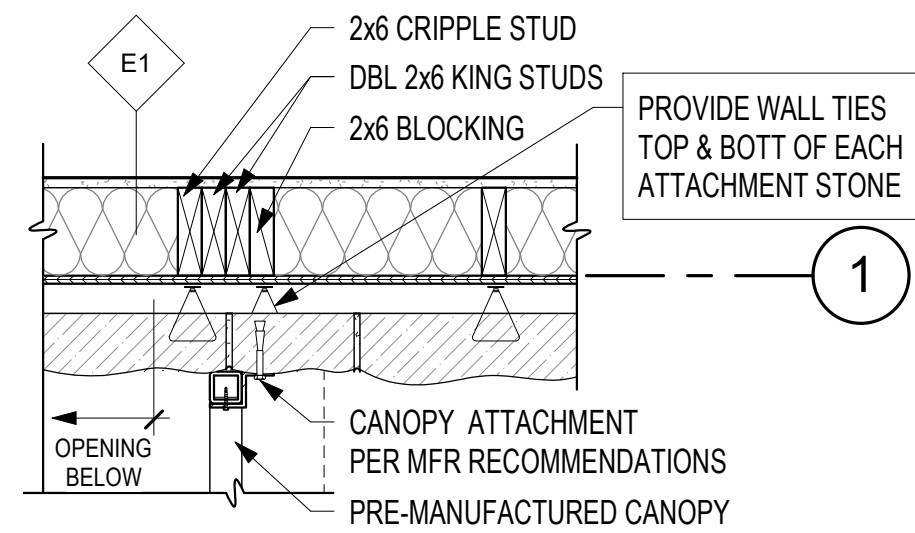
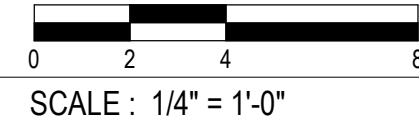
8/11/2021 4:46:03 PM



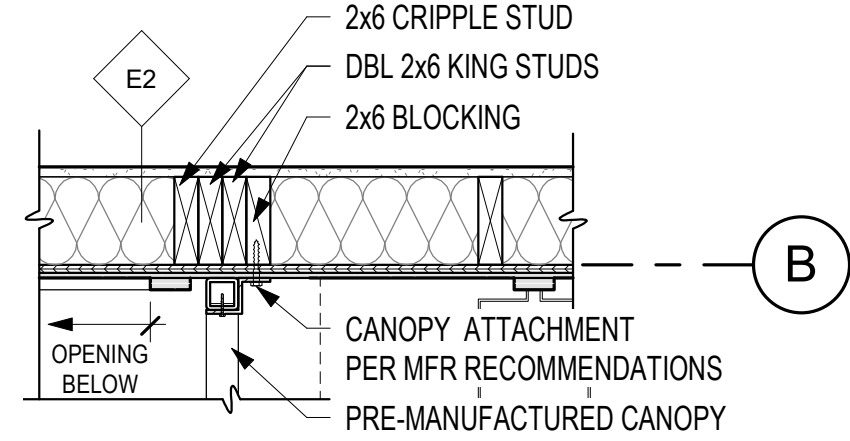
**3 WALL PENETRATION DETAIL**  
1" = 1'-0" 1 / A-102



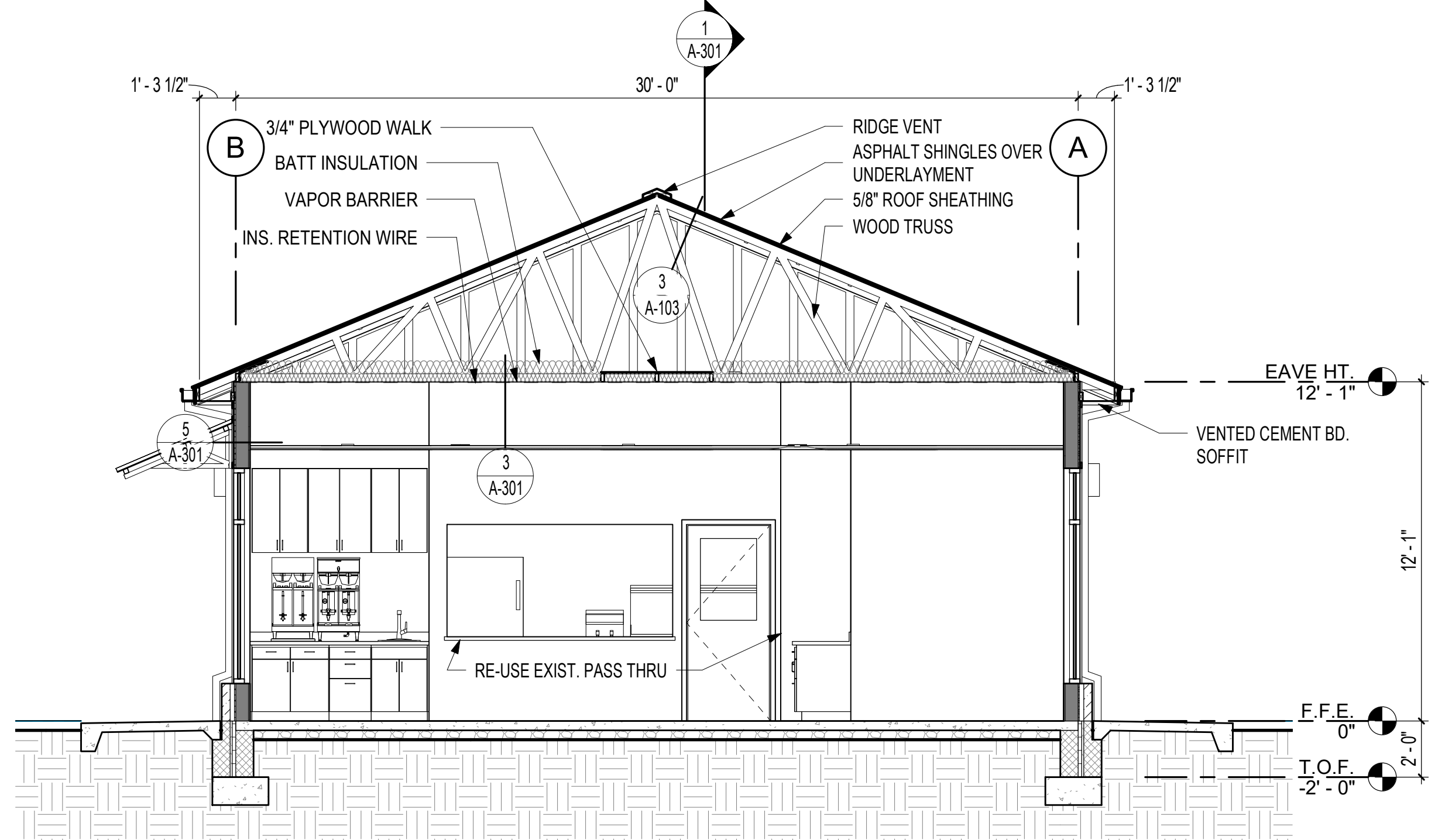
**1 BUILDING SECTION 1**  
1/4" = 1'-0" 1 / A-101



**4 CANOPY DETAIL AT STONE**  
1" = 1'-0" 1 / A-102



**5 CANOPY DETAIL AT SIDING**  
1" = 1'-0" 1 / A-102



**2 BUILDING SECTION 2**  
1/4" = 1'-0" 1 / A-101



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CITY OF MAMMOTH SPRING

MAMMOTH SPRING, ARKANSAS

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ARKANSAS  
07/09/21

CONSTRUCTION DOCUMENTS

PROJECT NO.  
2114

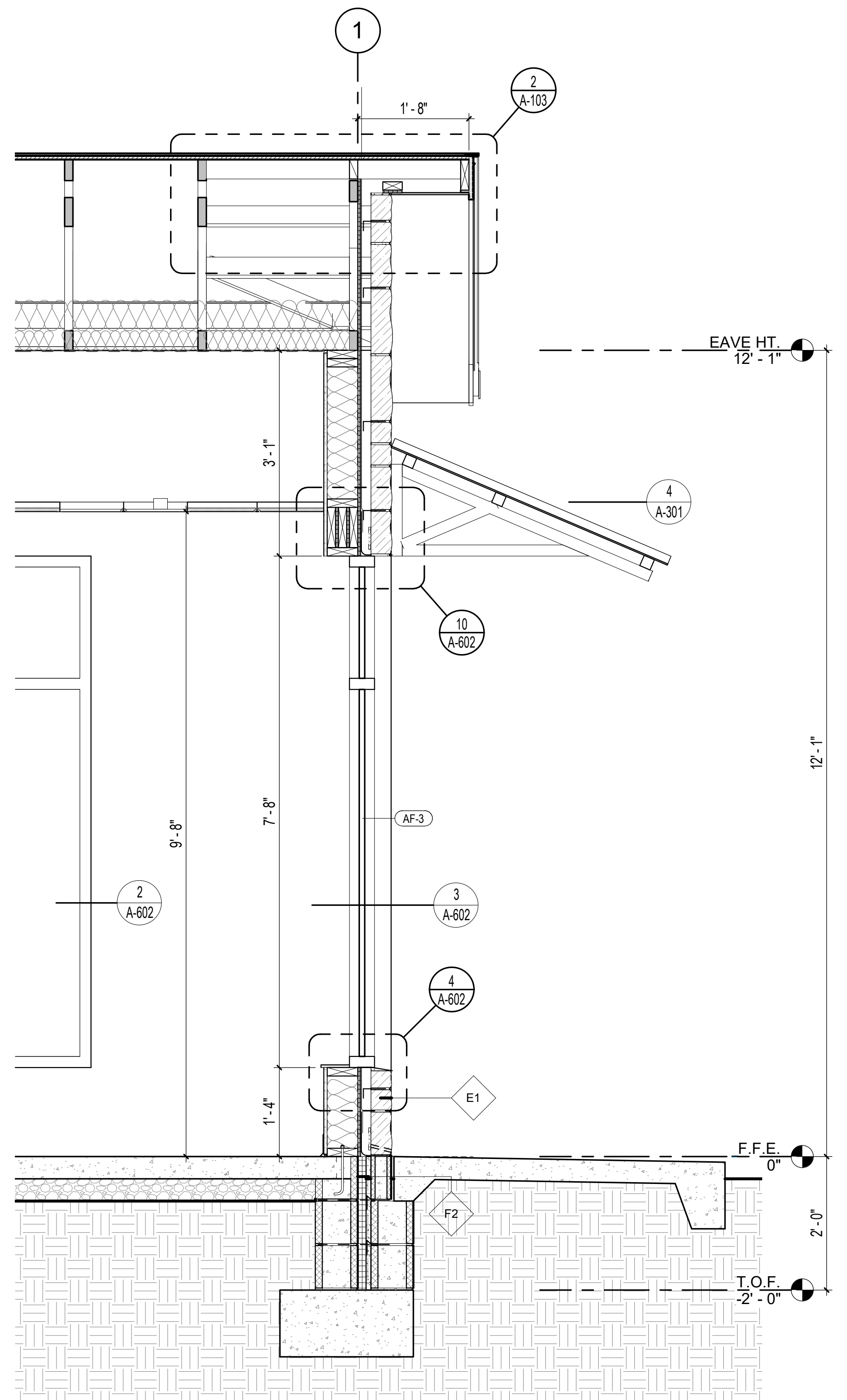
PROJECT NAME  
NEW SENIOR CENTER

DATE  
07/09/21

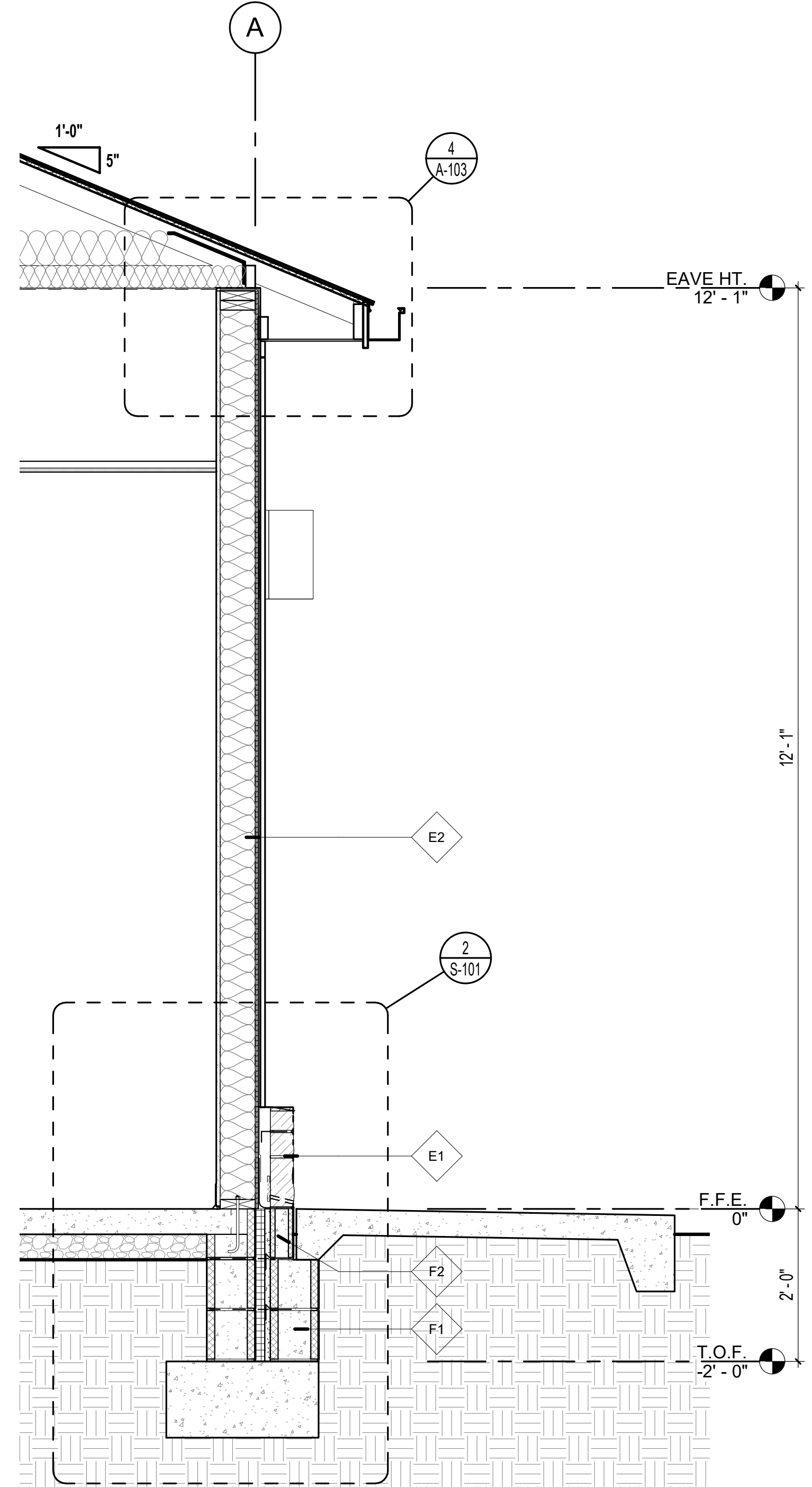
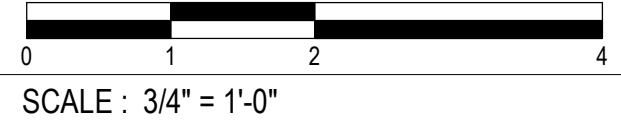
CONTENTS  
WALL SECTIONS

SHEET NUMBER

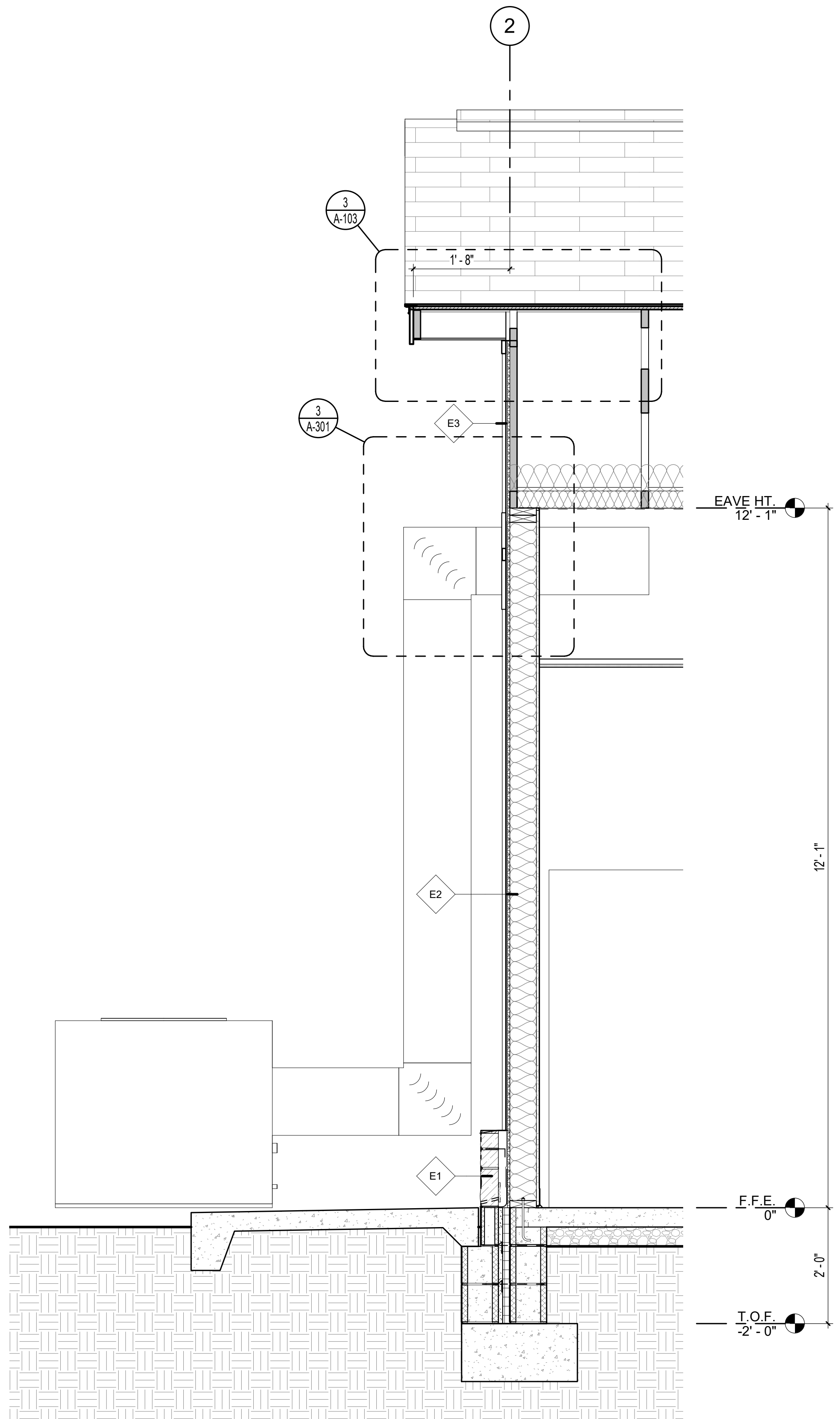
A-401



1 WALL SECTION 1  
3/4" = 1'-0" 1 / A-101



2 WALL SECTION 2  
3/4" = 1'-0" 1 / A-101

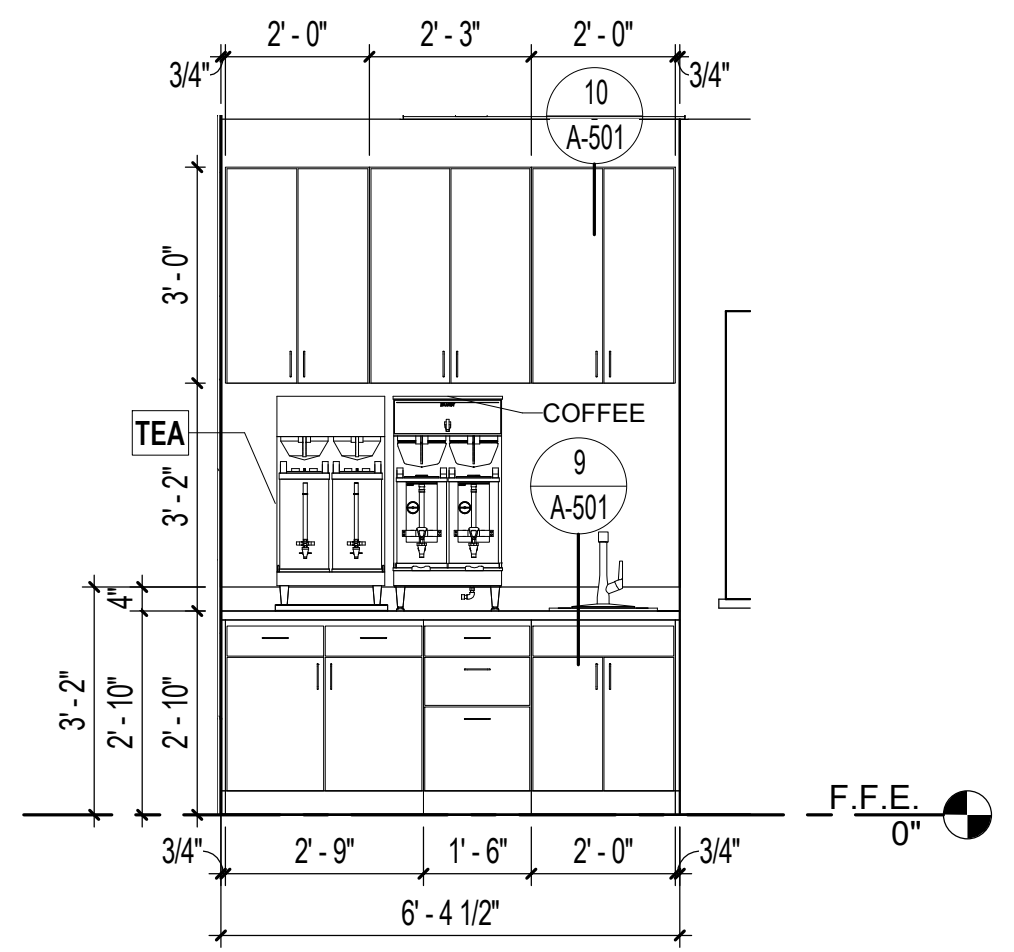


3 WALL SECTION 3  
3/4" = 1'-0" 1 / A-101

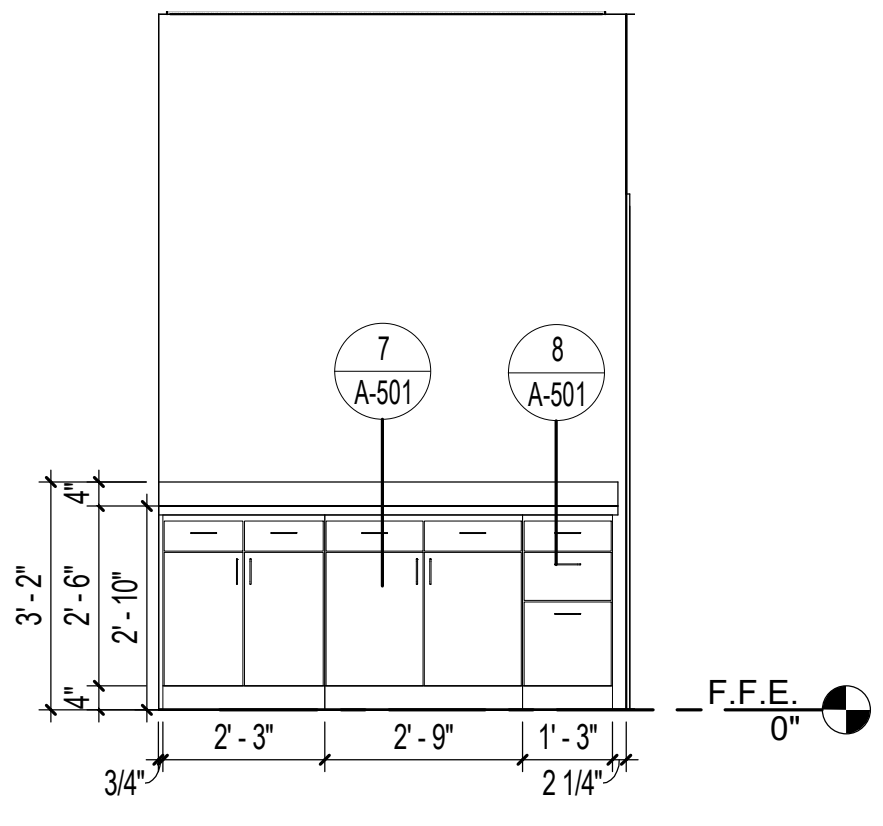
8/11/2021 4:43:32 PM



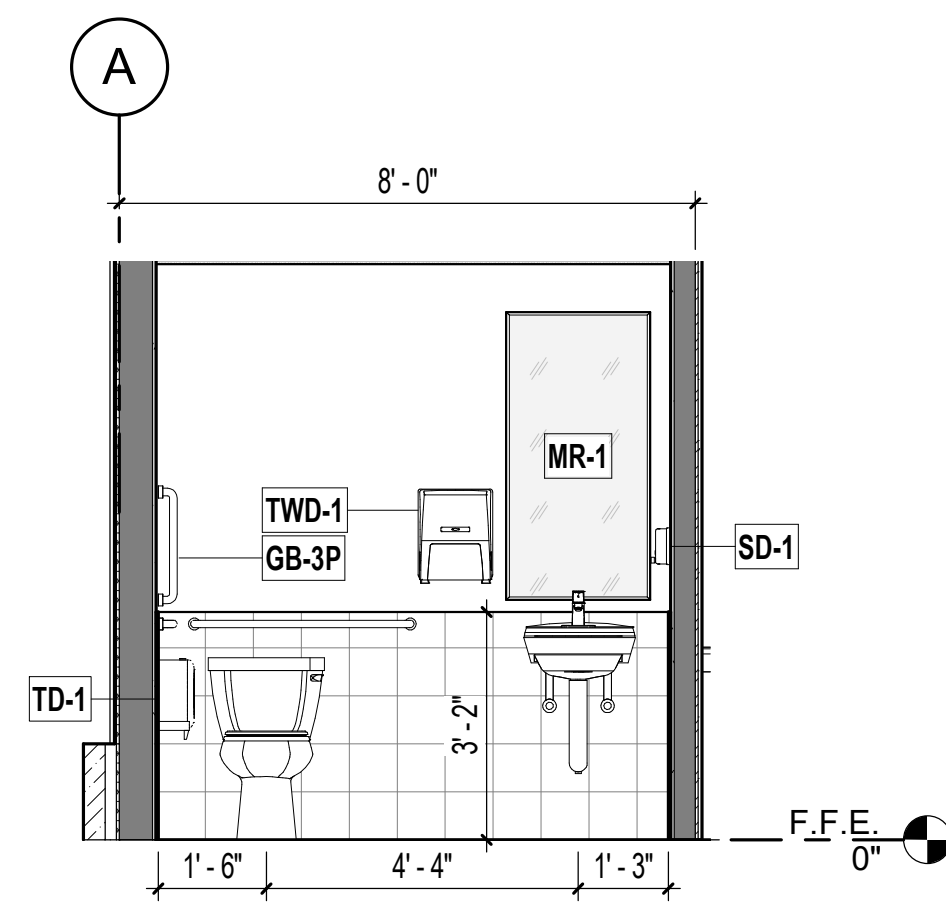
RESTROOM SPECIALTY EQUIPMENT SCHEDULE			
TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL
GB-3P	ADA GRAB BARS	BOBRICK	B-6806x18,36&42
MR-1	MIRROR w/ CHANNEL FRAME	BOBRICK	B-165 2448
SD-1	SOAP DISPENSER	BOBRICK	B-4112
TD-1	TWIN JUMBO ROLL TOILET TISSUE DISPENSER	BOBRICK	B-2892
TWD-1	PAPER TOWEL ROLL DISPENSER	BOBRICK	B-72860
US-1	UTILITY SHELF w/ MOP HOLDERS	BOBRICK	B-239



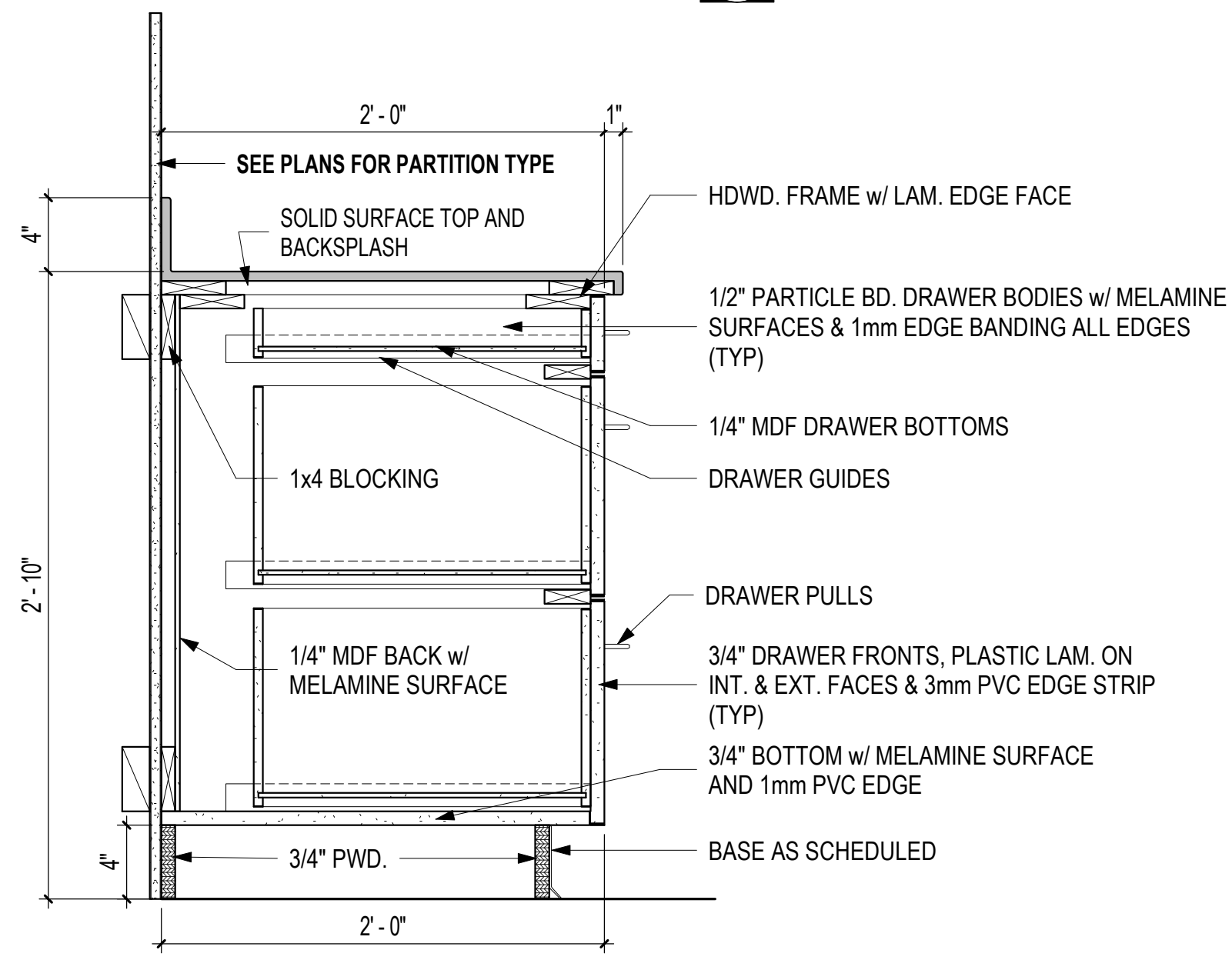
**6** DRINK STATION  
3/8" = 1'-0" 1 / A-101



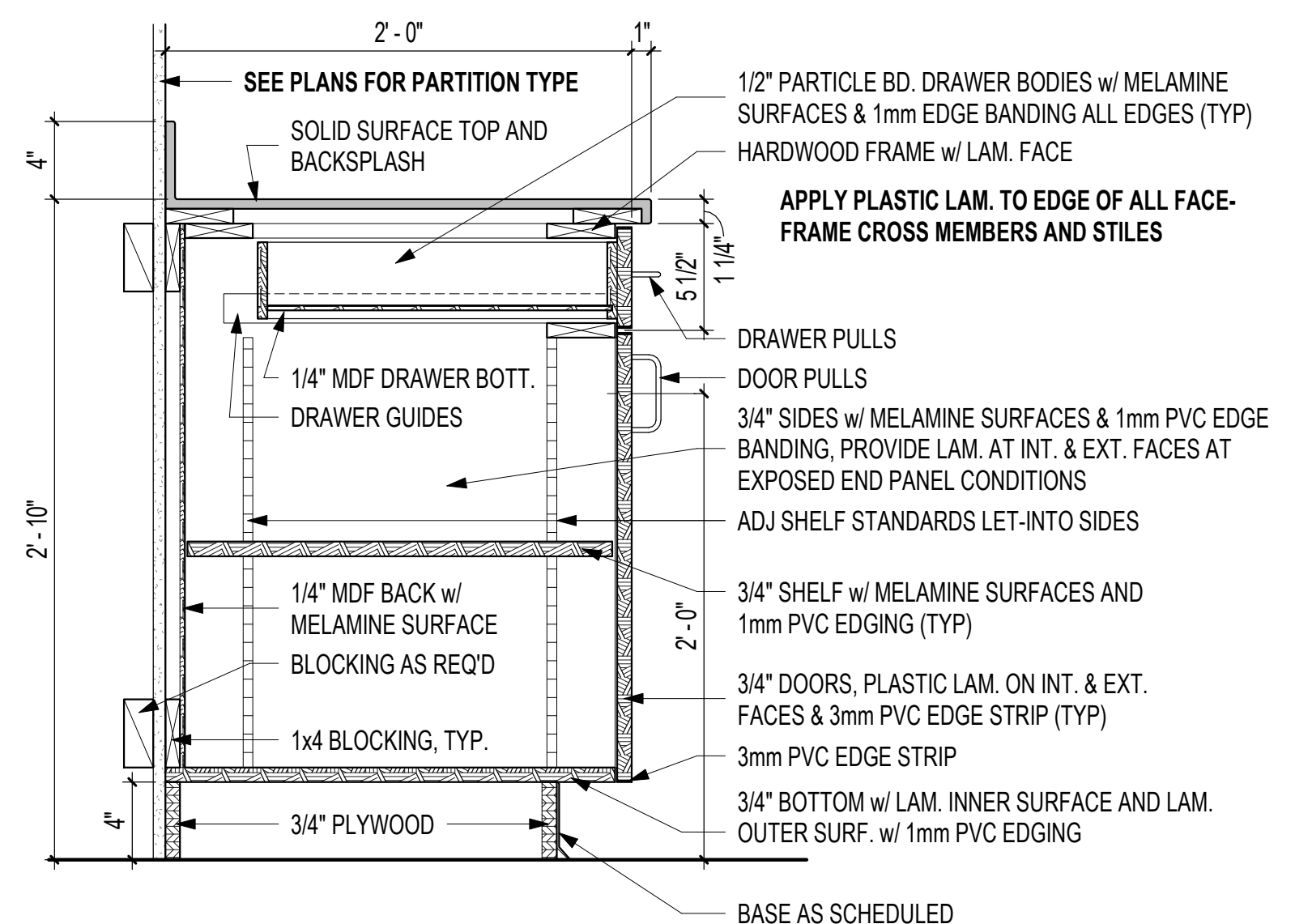
**5** SALAD BAR STATION  
3/8" = 1'-0" 1 / A-101



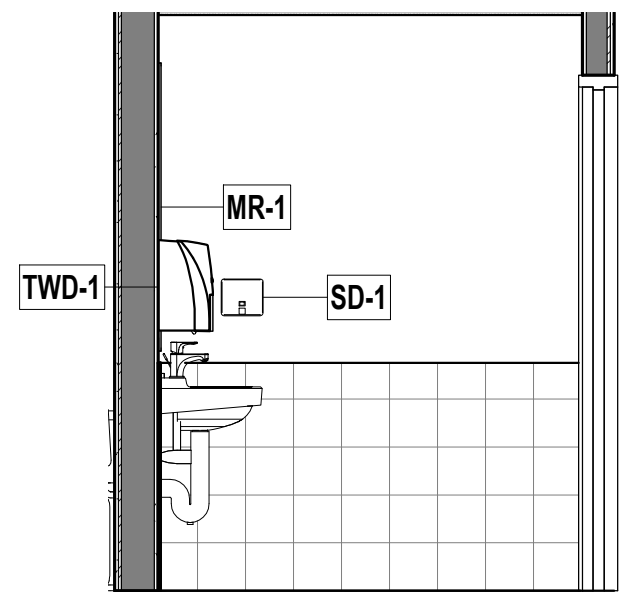
**4** TYPICAL TOILET ELEVATION 4  
3/8" = 1'-0" 1 / A-501



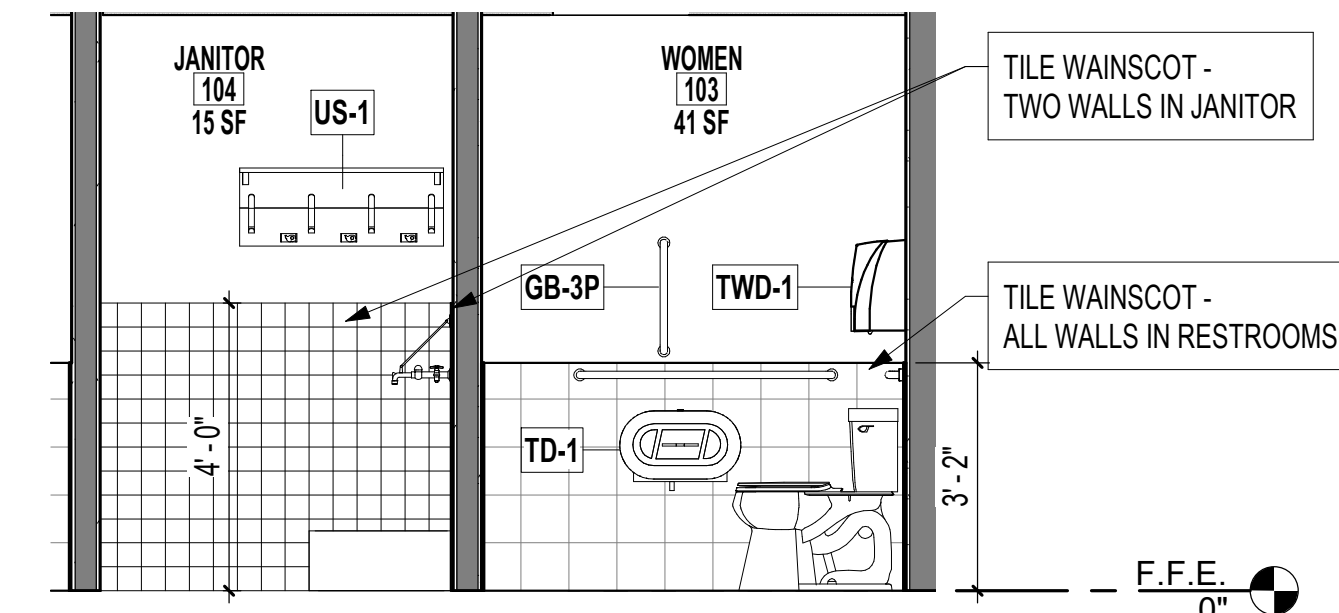
**8** BASE CABINET - 2 LATERAL FILES + 1 DRAWER  
1 1/2" = 1'-0" 5 / A-501



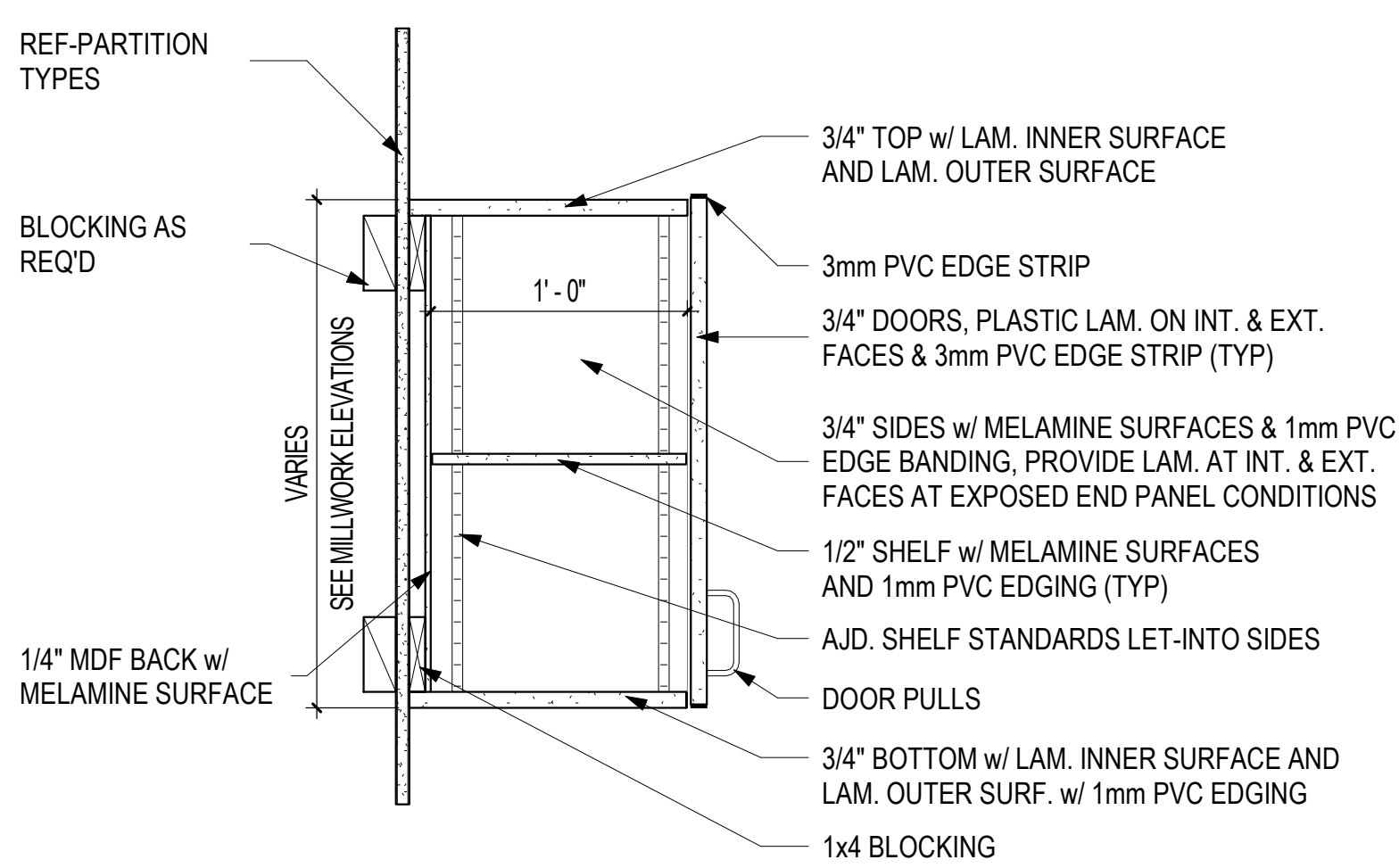
**7** TYPICAL BASE CABINET  
1 1/2" = 1'-0" 5 / A-501



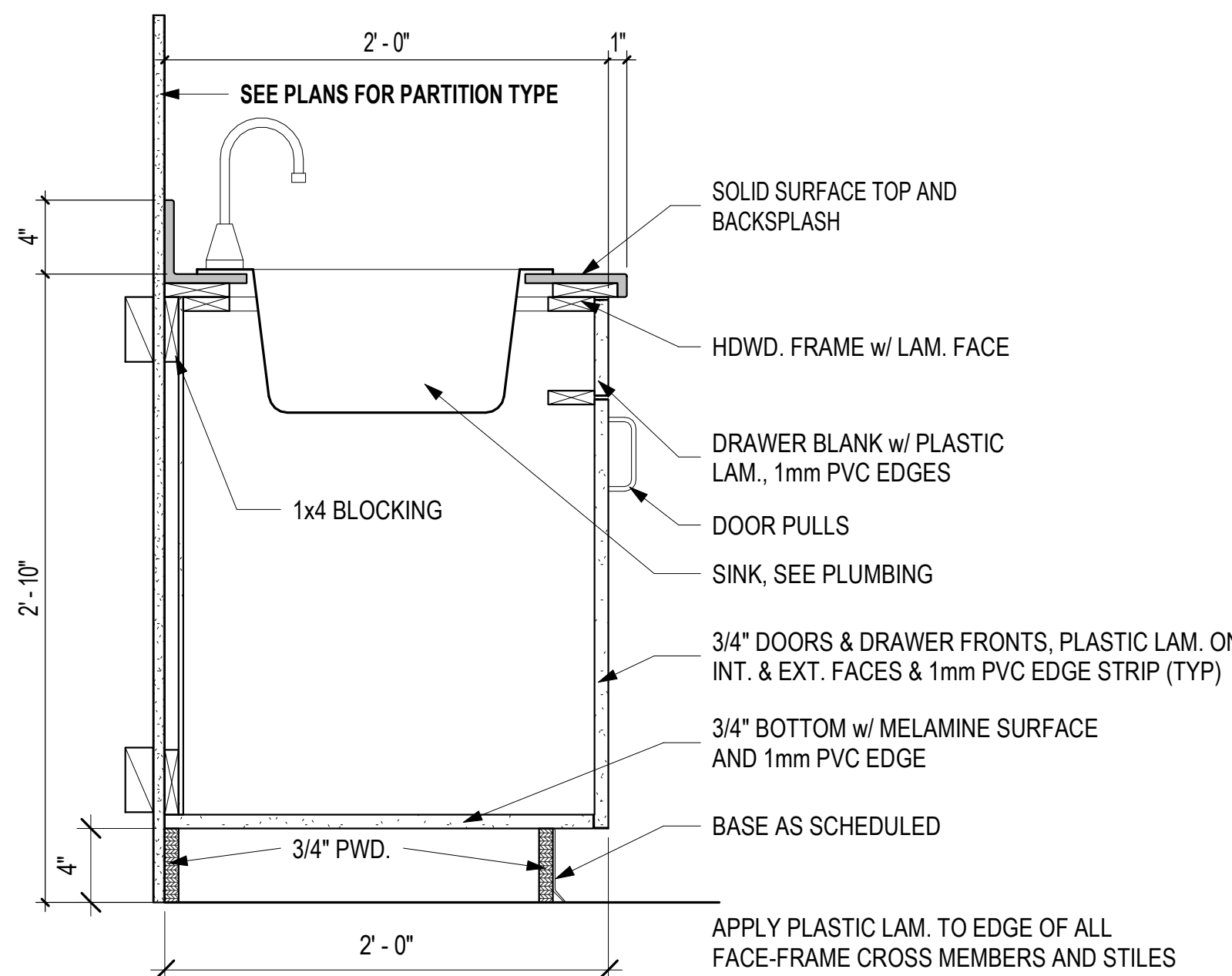
**3** TYPICAL TOILET ELEVATION 3  
3/8" = 1'-0" 1 / A-501



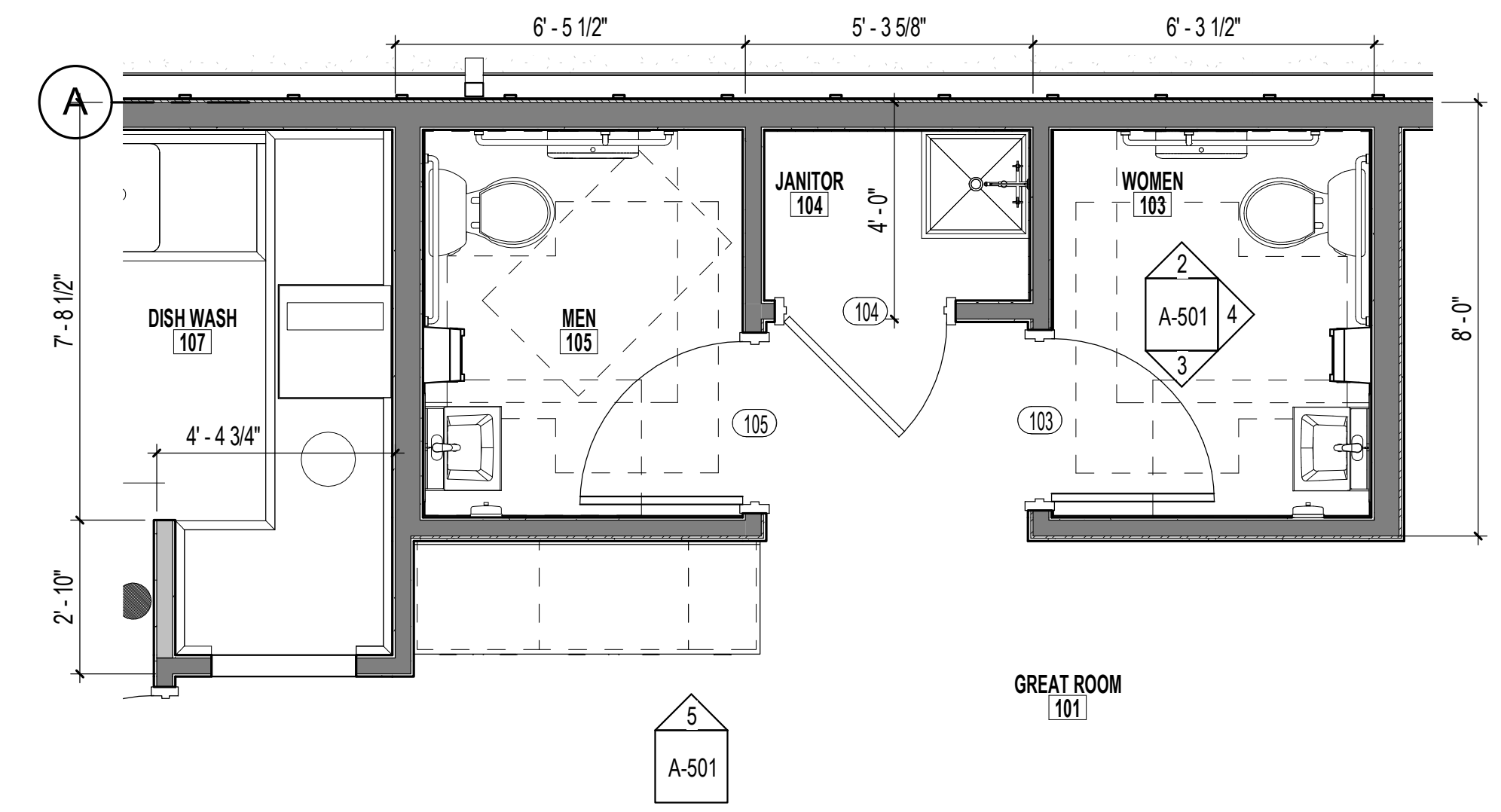
**2** TYPICAL TOILET ELEVATION 2  
3/8" = 1'-0" 1 / A-501



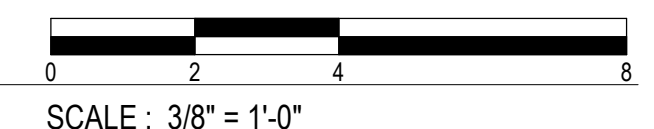
**10** TYPICAL UPPER CABINET  
1 1/2" = 1'-0" 6 / A-501



**9** SINK CABINET  
1 1/2" = 1'-0" 6 / A-501



**1** ENLARGED TOILET PLAN  
3/8" = 1'-0" 1 / A-101



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305 Union Street, 2nd floor, Jonesboro, AR 72401  
phone 870.336.0536 www.coopermixon.com

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PROJECT NO. 2114

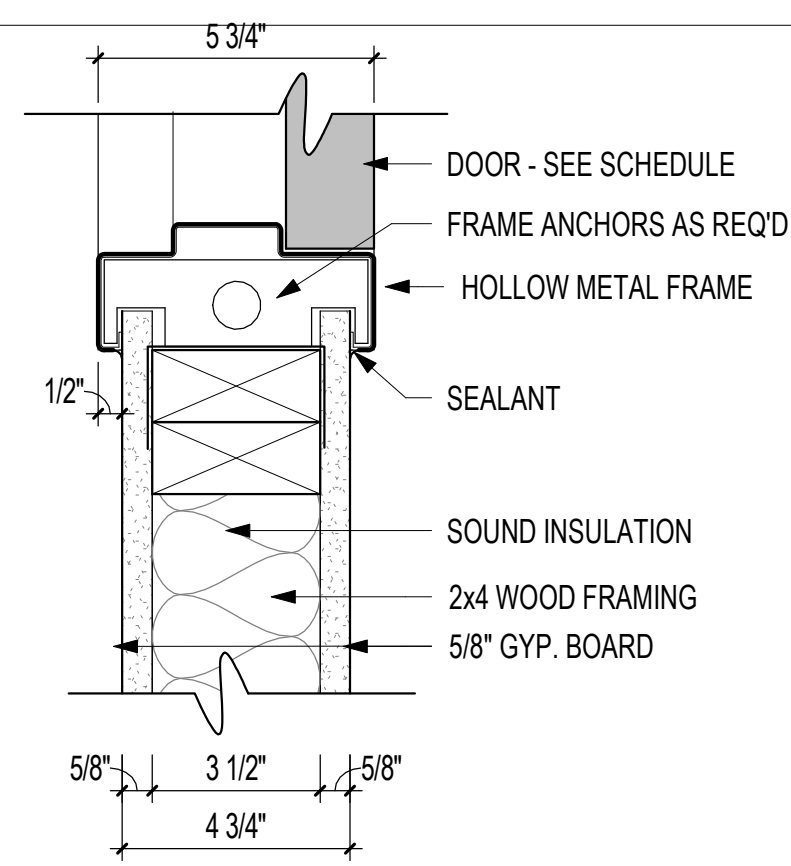
PROJECT NAME  
NEW SENIOR CENTER

DATE  
07/09/21

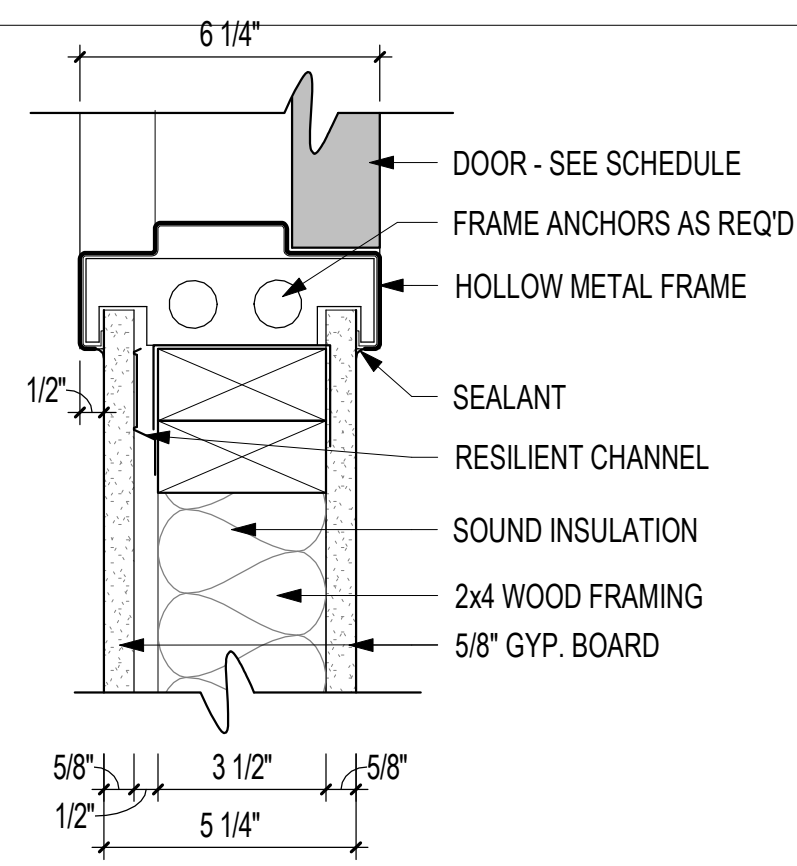
CONTENTS  
ENLARGED TOILET PLANS & ELEVATIONS, MILLWORK ELEVATIONS & DETAILS

SHEET NUMBER

**A-501**



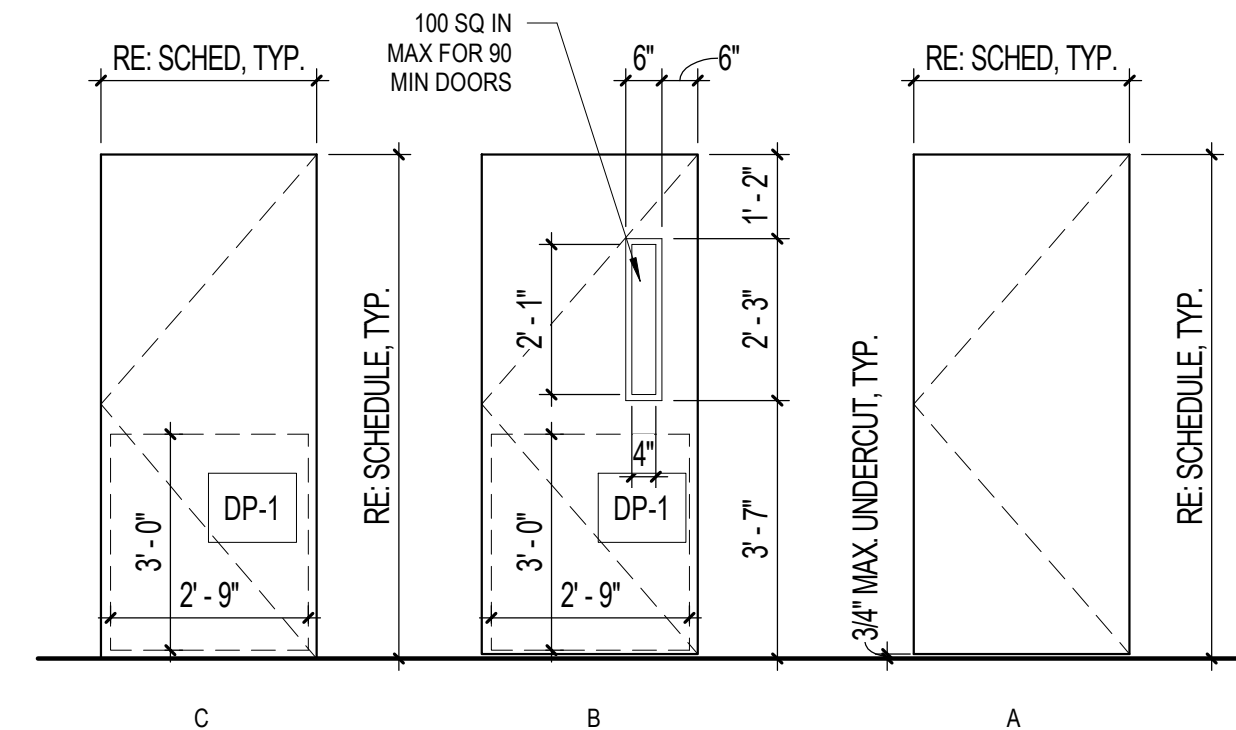
**6** HMF INTERIOR JAMB DETAIL - W4S/G.6\*2  
3/8" = 1'-0"



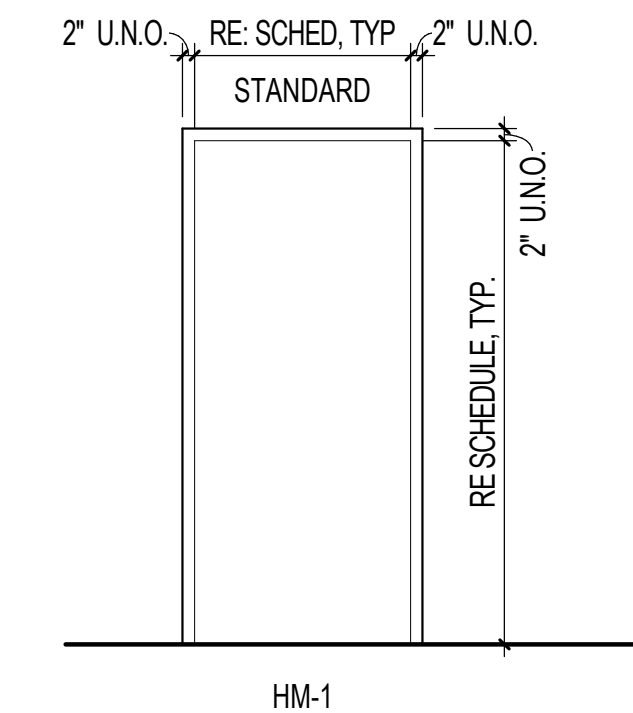
**5** HMF INTERIOR JAMB DETAIL - W4S/RC/G.6\*2  
3/8" = 1'-0"

DOOR SCHEDULE - EXTERIOR														
DOOR NO.	DOOR		DOOR			FRAME			FRAME DETAILS			HDW SET	FIRE RATING	REMARKS
	OPENING SIZE	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HEAD DETAIL	JAMB DETAIL	SILL DETAIL				
E1	6'-0"	7'-0"	AF-1	ALUM / GLASS	AS SELECTED	AF-1	ALUMINIUM	AS SELECTED	10 / A-602	3 / A-602	5 / A-602	1	N/A	
E2	3'-0"	7'-0"	AF-2	ALUM / GLASS	AS SELECTED	AF-2	ALUMINIUM	AS SELECTED	1 / A-602	2 & 3 / A-602	5 / A-602	1	N/A	
E3	3'-0"	7'-0"	C	HM	FACTORY	HM-1	HM	PAINT	7 / A-602	8 & 9 / A-602	5 / A-602 SIM.	2	N/A	DOOR PROTECTION ON PUSH SIDE

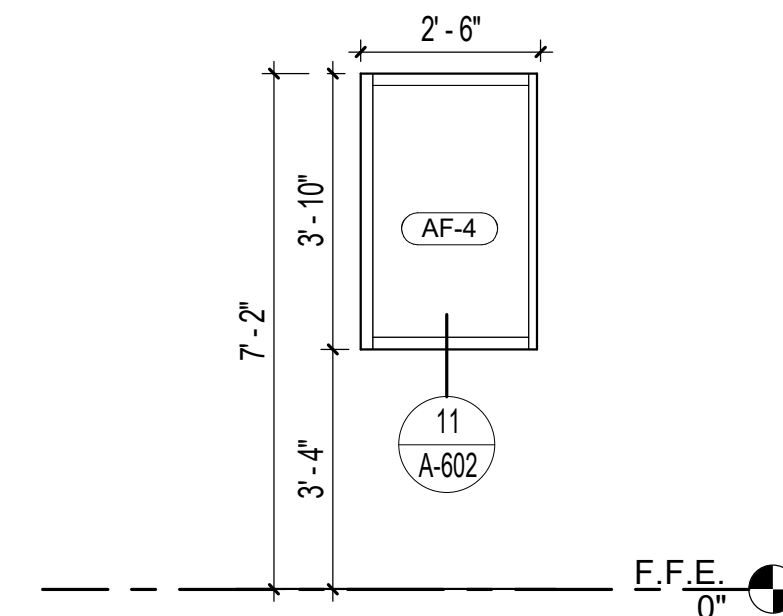
DOOR SCHEDULE - INTERIOR														
DOOR NO.	DOOR		DOOR			FRAME			FRAME DETAILS			HDW SET	FIRE RATING	REMARKS
	OPENING SIZE	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HEAD DETAIL	JAMB DETAIL	SILL DETAIL				
102	3'-0"	7'-0"	B	WD	STAINED	HM-1	MTL	PTD	5 / A-601 SIM.	5 / A-601	4	N/A		
103	3'-0"	7'-0"	A	WD	STAINED	HM-1	MTL	PTD	5 / A-601 SIM.	5 / A-601	3	N/A		
104	3'-0"	7'-0"	A	WD	STAINED	HM-1	MTL	PTD	6 / A-601 SIM.	6 / A-601	5	N/A		
105	3'-0"	7'-0"	A	WD	STAINED	HM-1	MTL	PTD	5 / A-601 SIM.	5 / A-601	3	N/A		
106	3'-0"	7'-0"	B	WD	STAINED	HM-1	MTL	PTD	6 / A-601 SIM.	6 / A-601	6	N/A		DOOR PROTECTION ON PUSH SIDE
108	3'-0"	7'-0"	A	WD	STAINED	HM-1	MTL	PTD	6 / A-601 SIM.	6 / A-601	5	N/A		



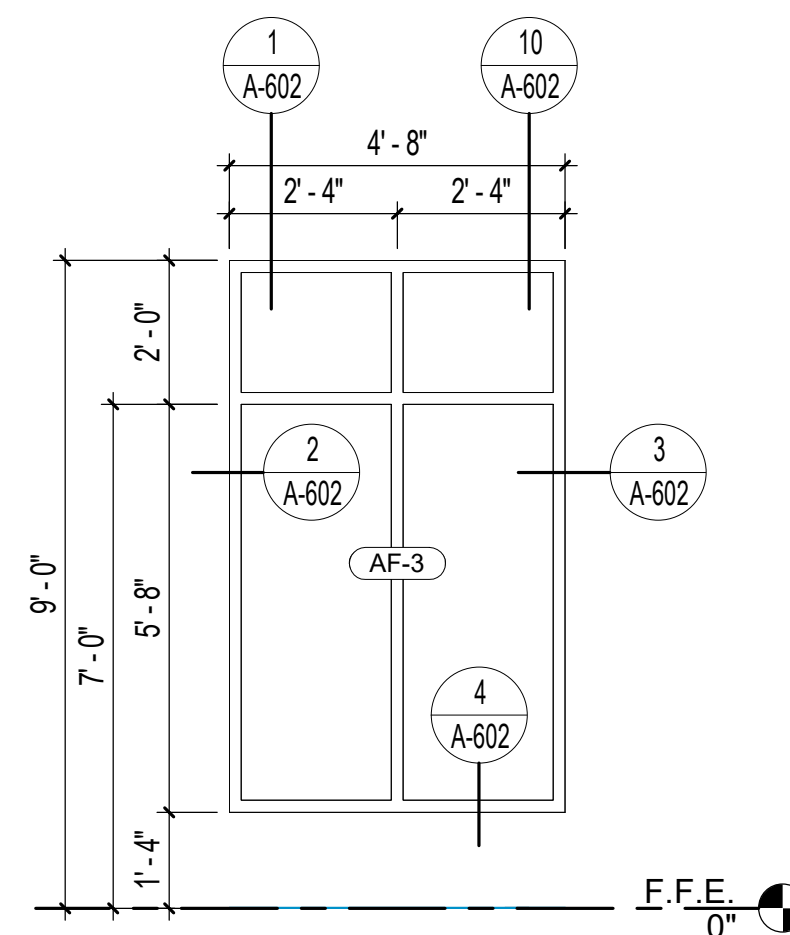
**DOOR ELEVATIONS**  
3/8" = 1'-0"



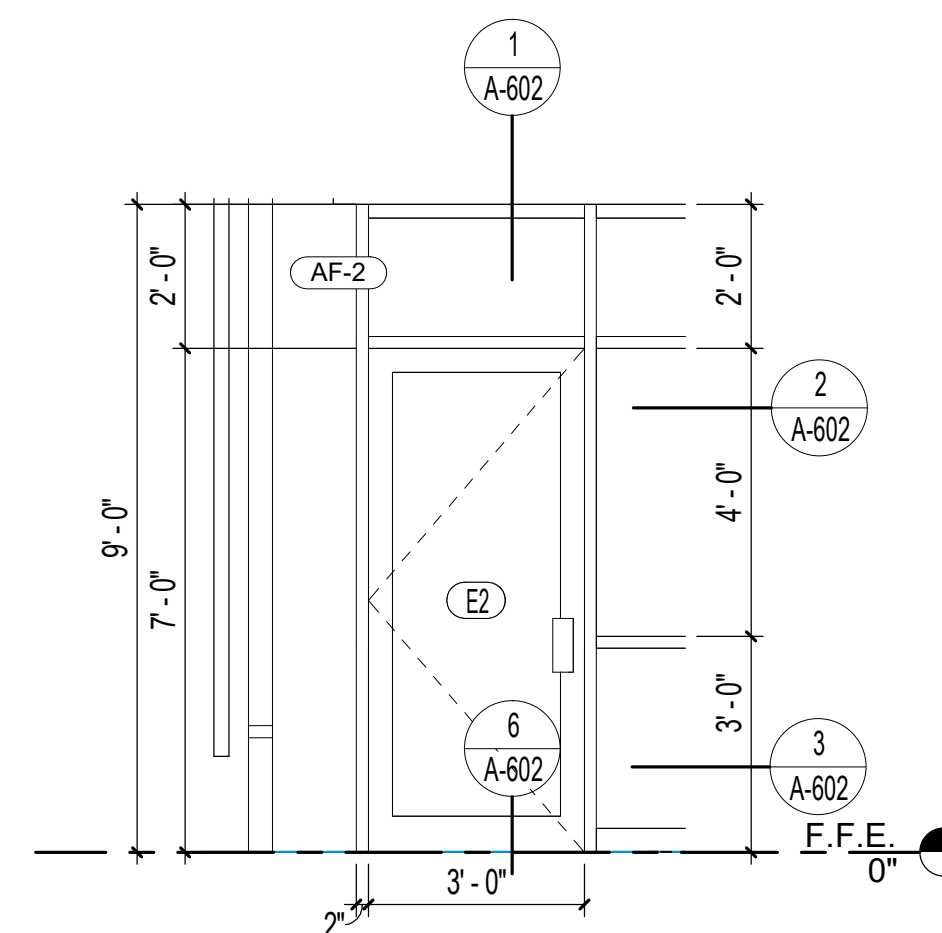
**DOOR FRAME ELEVATIONS**  
3/8" = 1'-0"



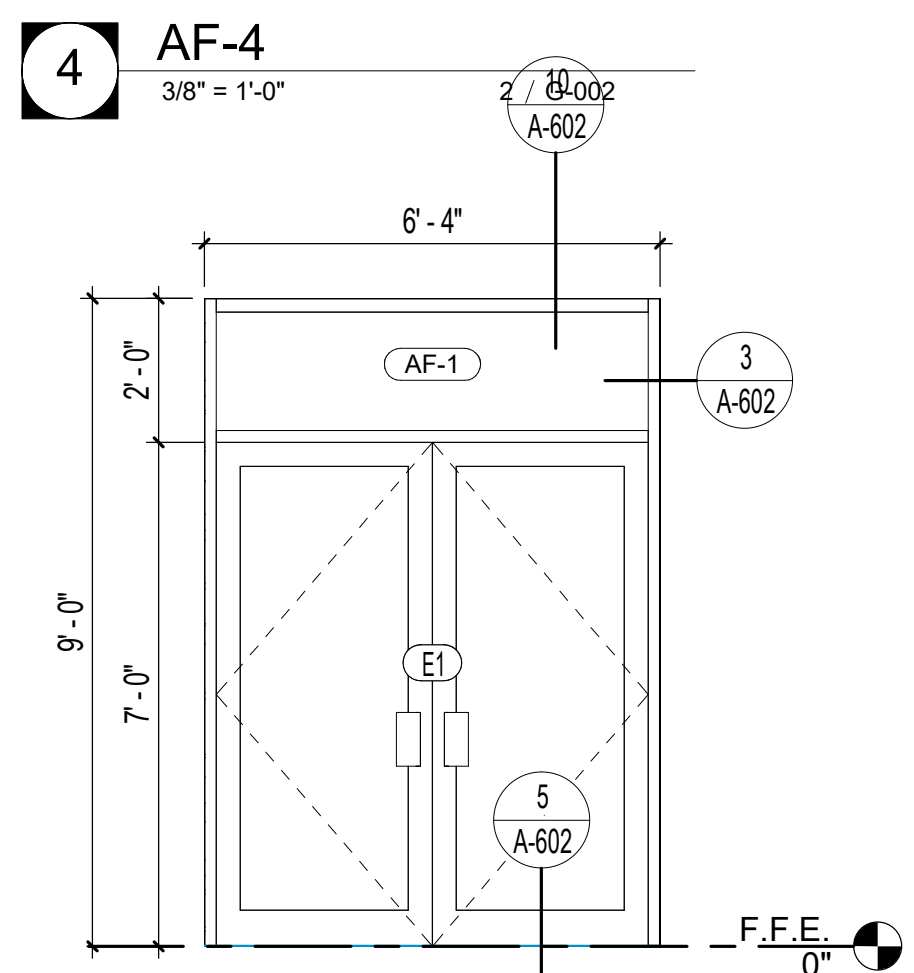
**4** AF-4  
3/8" = 1'-0"



**3** AF-3  
3/8" = 1'-0"



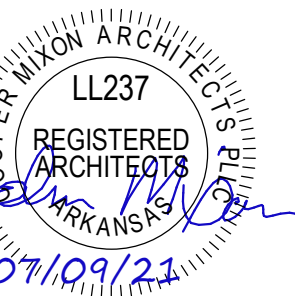
**2** AF-2  
3/8" = 1'-0"



**1** AF-1  
3/8" = 1'-0"



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2114

PROJECT NAME \_\_\_\_\_

NEW SENIOR CENTER

DATE \_\_\_\_\_

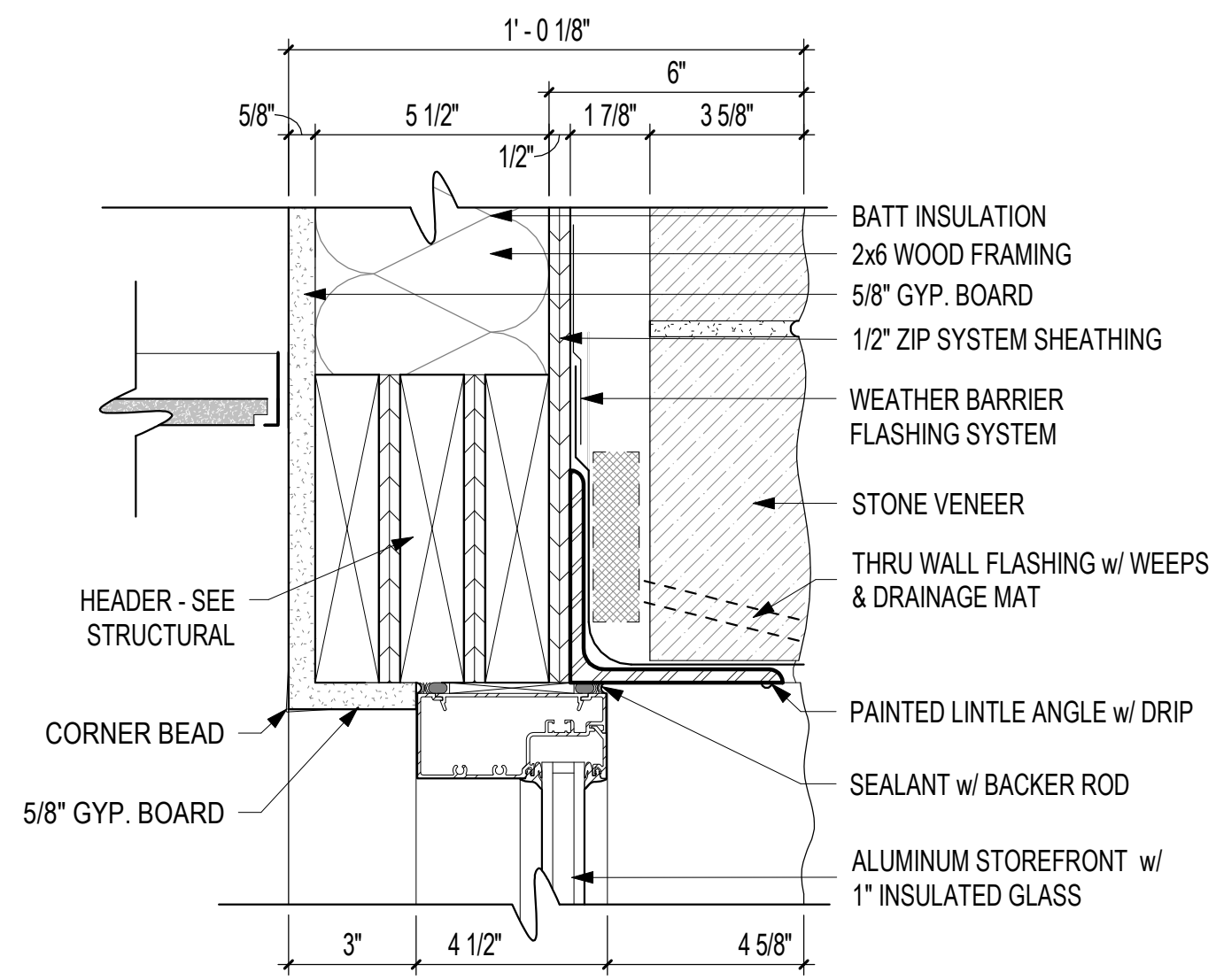
07/09/21

CONTENTS \_\_\_\_\_

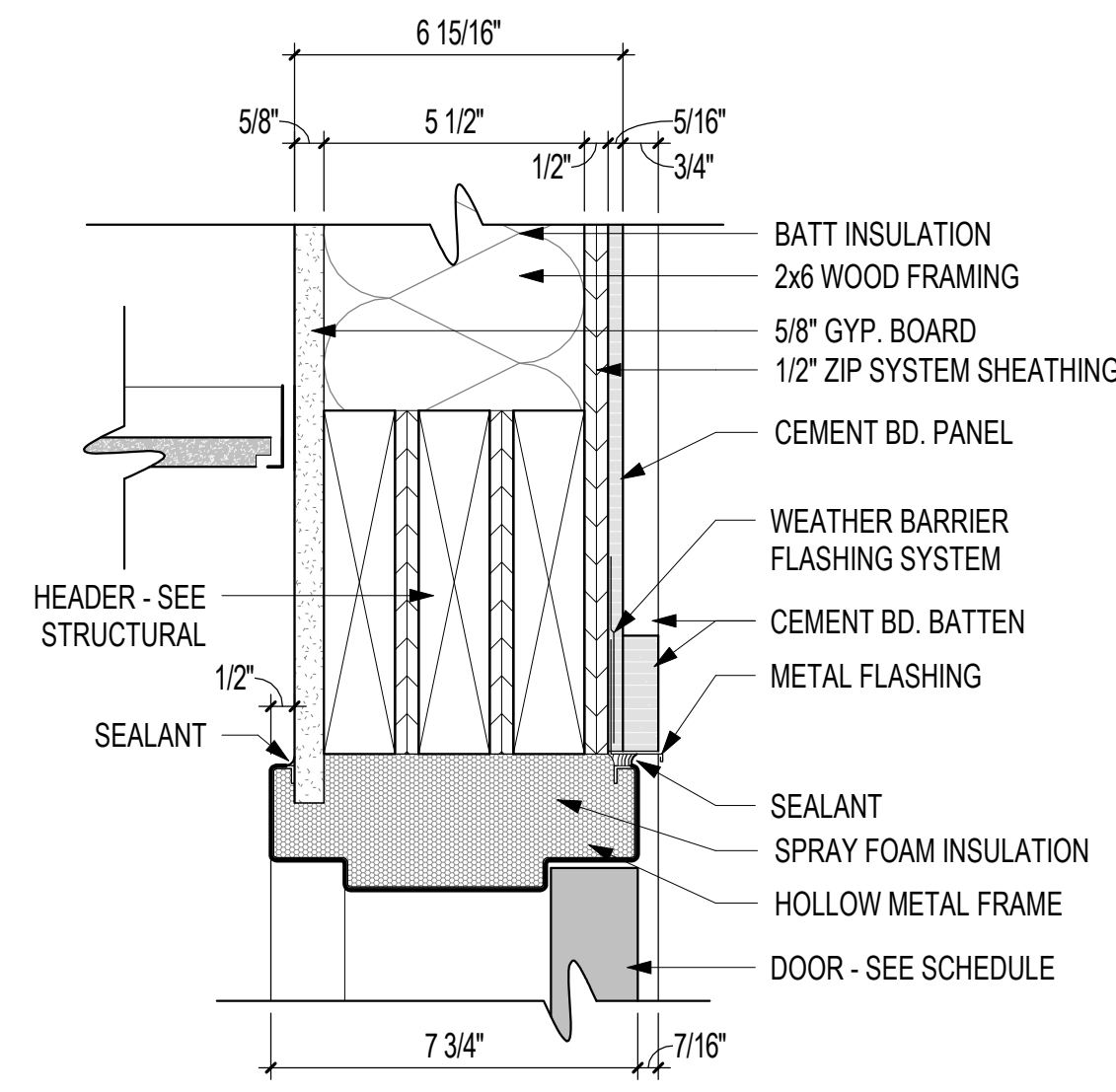
DOOR SCHEDULE,  
DOOR & FRAME  
ELEVATIONS, ALUM.  
FRAME ELEVATIONS

SHEET NUMBER \_\_\_\_\_

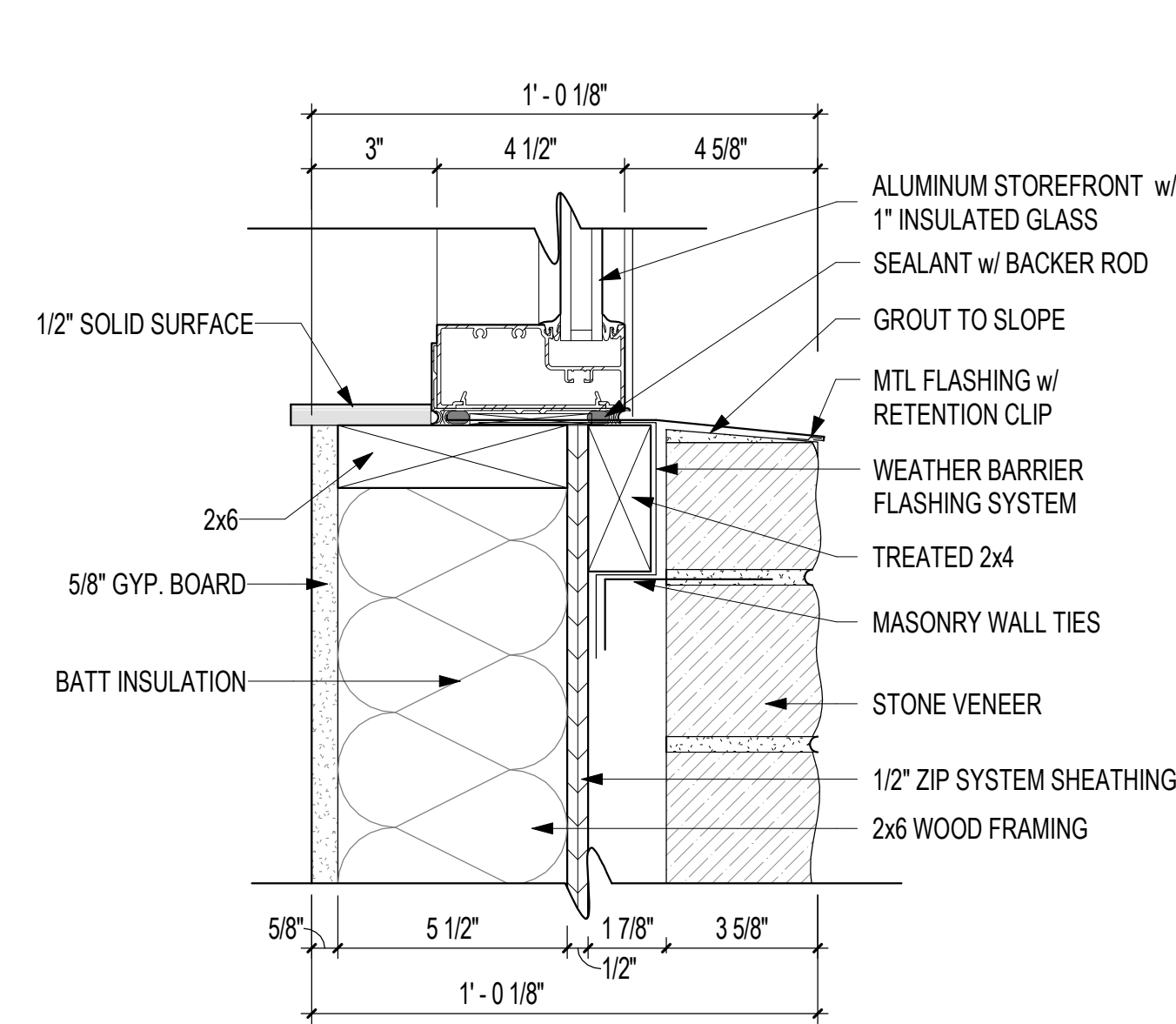
**A-601**



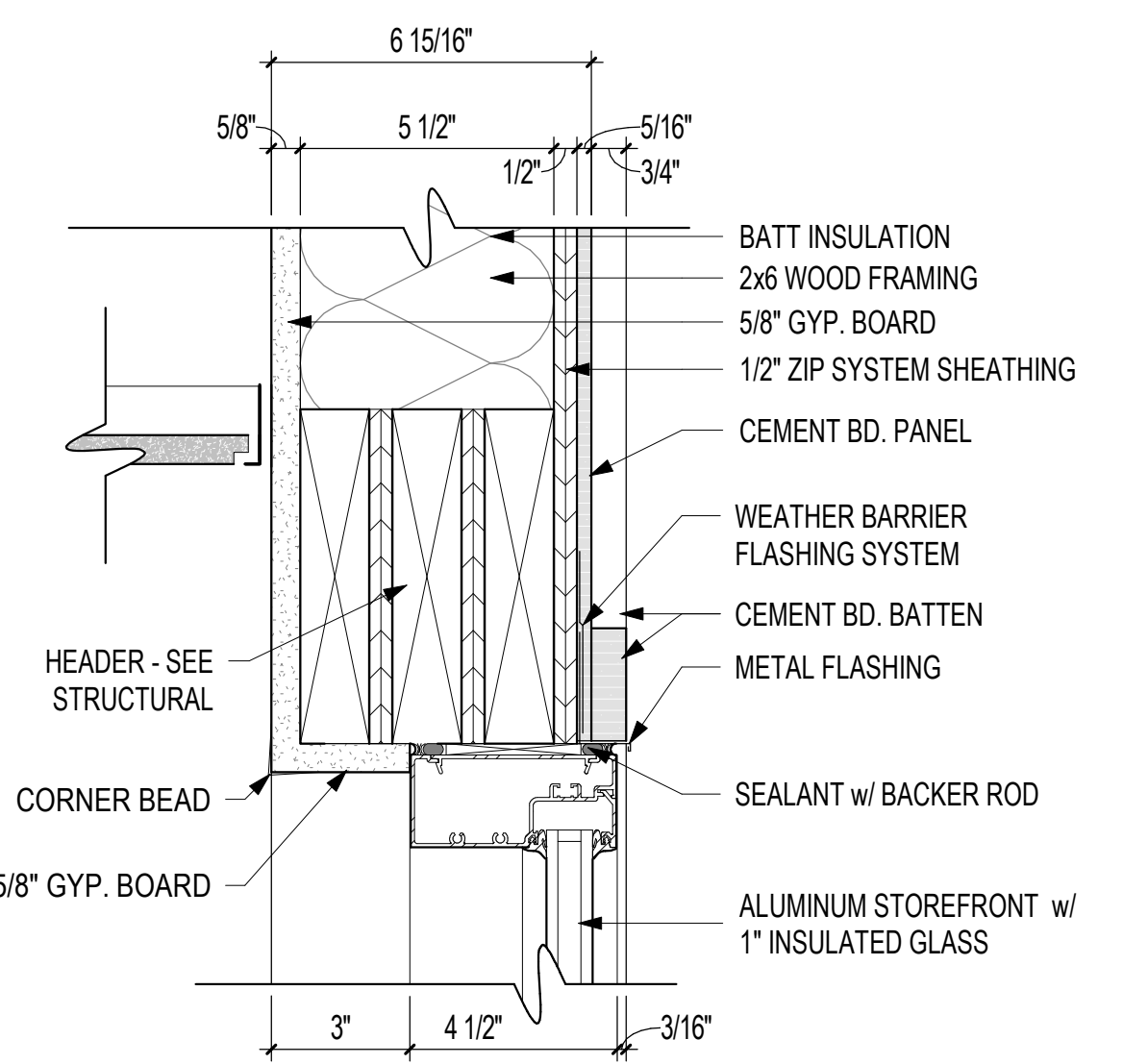
10 AF HEAD DETAIL - W6/ST4/Z.5/G.6  
3" = 1'-0" 1 / A-401



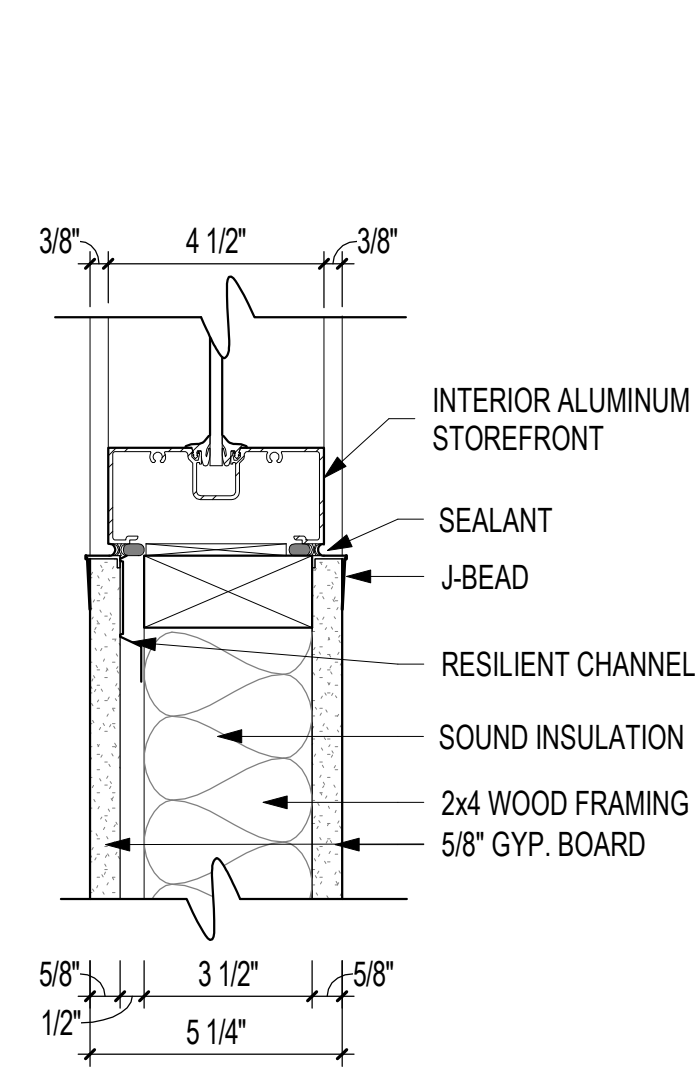
7 HMF HEAD DETAIL - W6/CP/Z.5/G.6  
3" = 1'-0" 1 / A-401



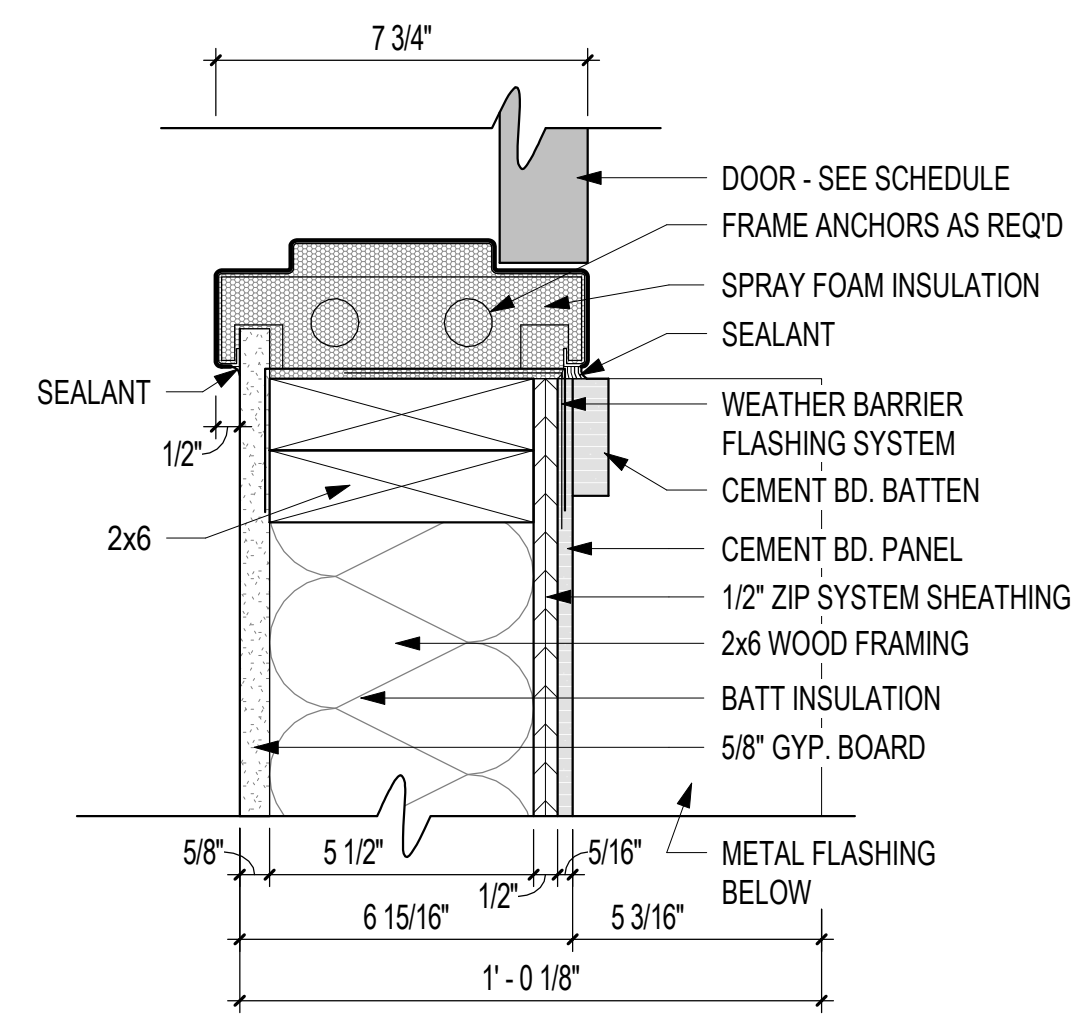
4 AF SILL DETAIL - W6/ST4/Z.5/G.6  
3" = 1'-0" 1 / A-401



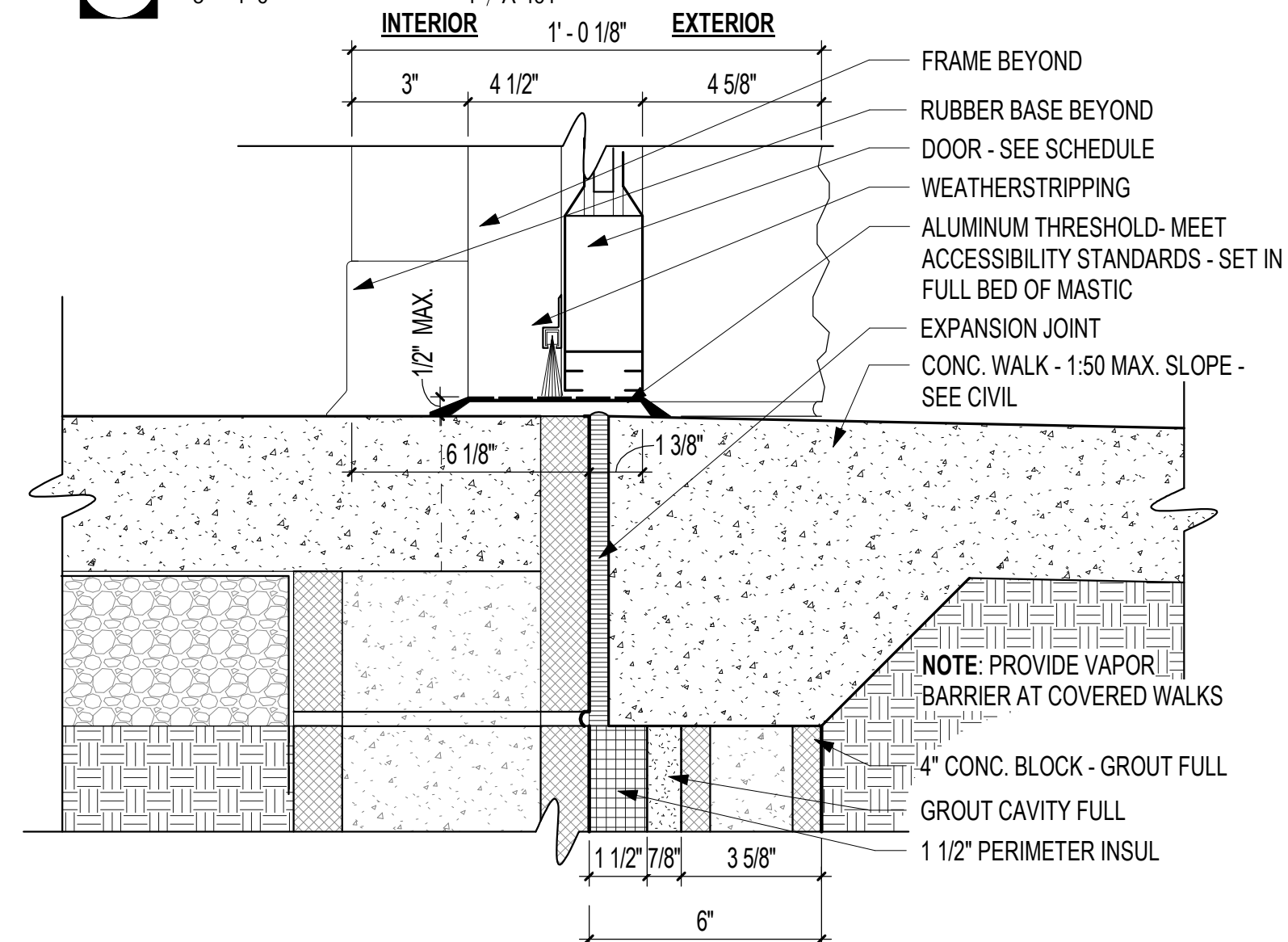
1 AF HEAD DETAIL - W6/CP/Z.5/G.6  
3" = 1'-0" 2 / A-601



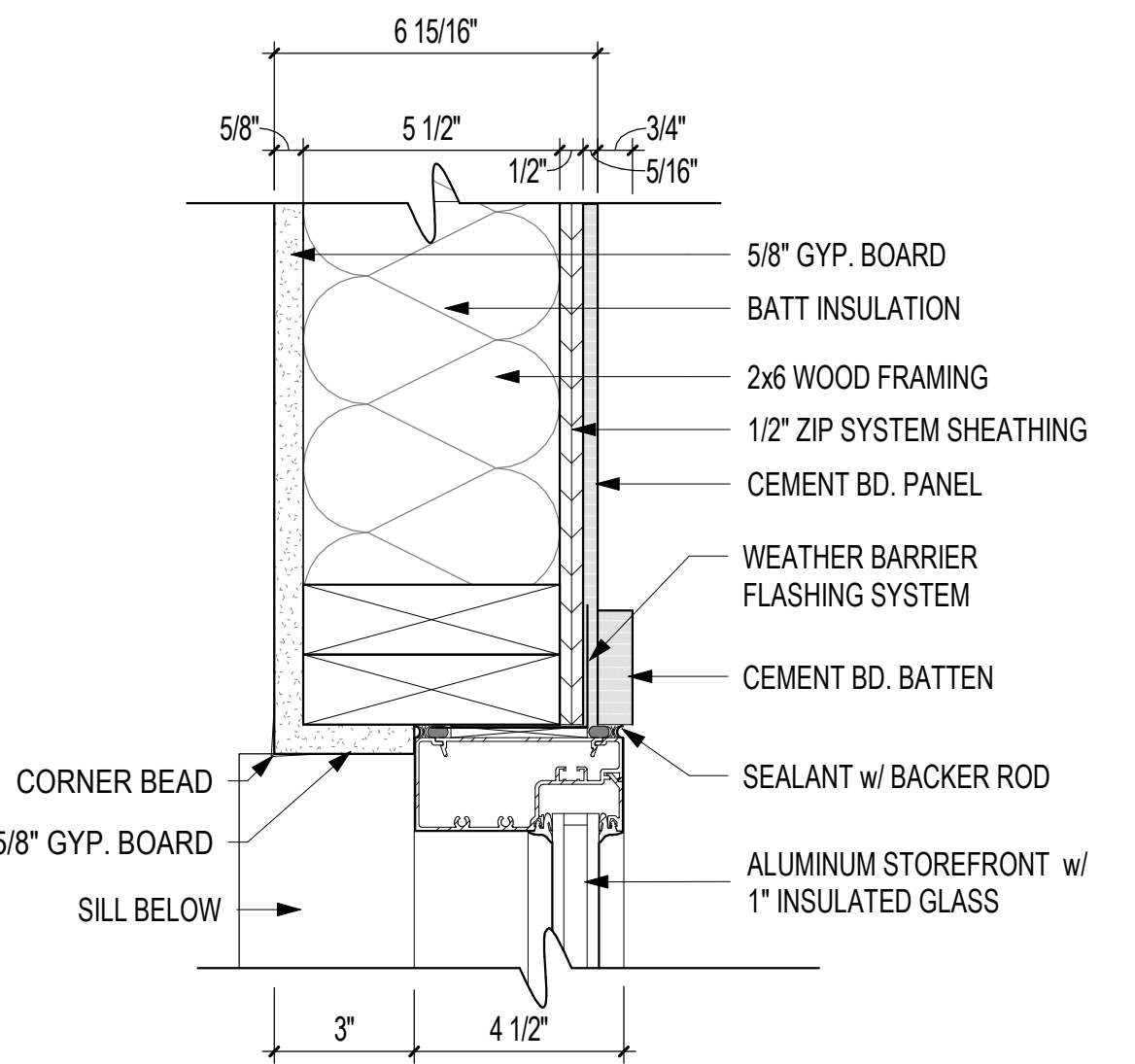
11 AF INTERIOR TYPICAL DETAIL - W4S/RC/G.6\*2  
3" = 1'-0" 4 / A-601



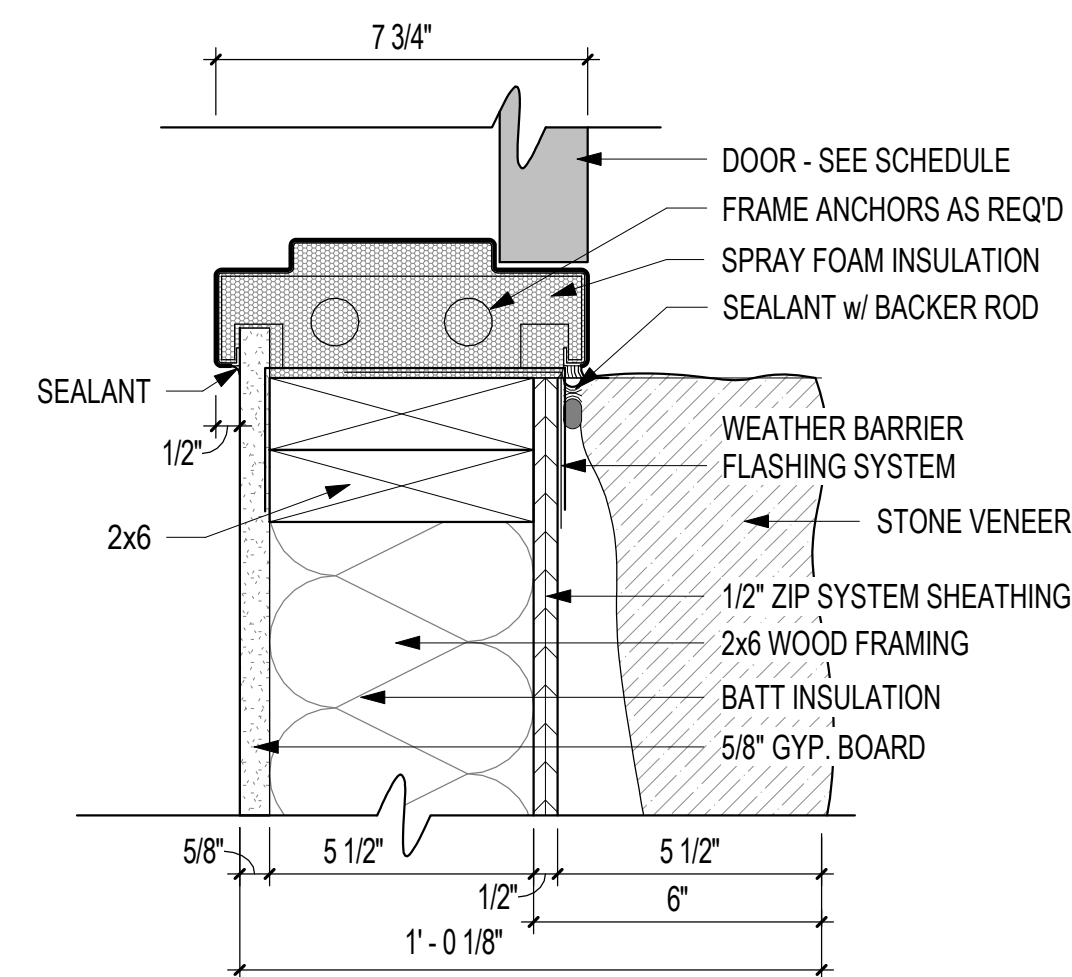
8 HMF JAMB DETAIL - W6/CP/Z.5/G.6  
3" = 1'-0" 1 / A-601



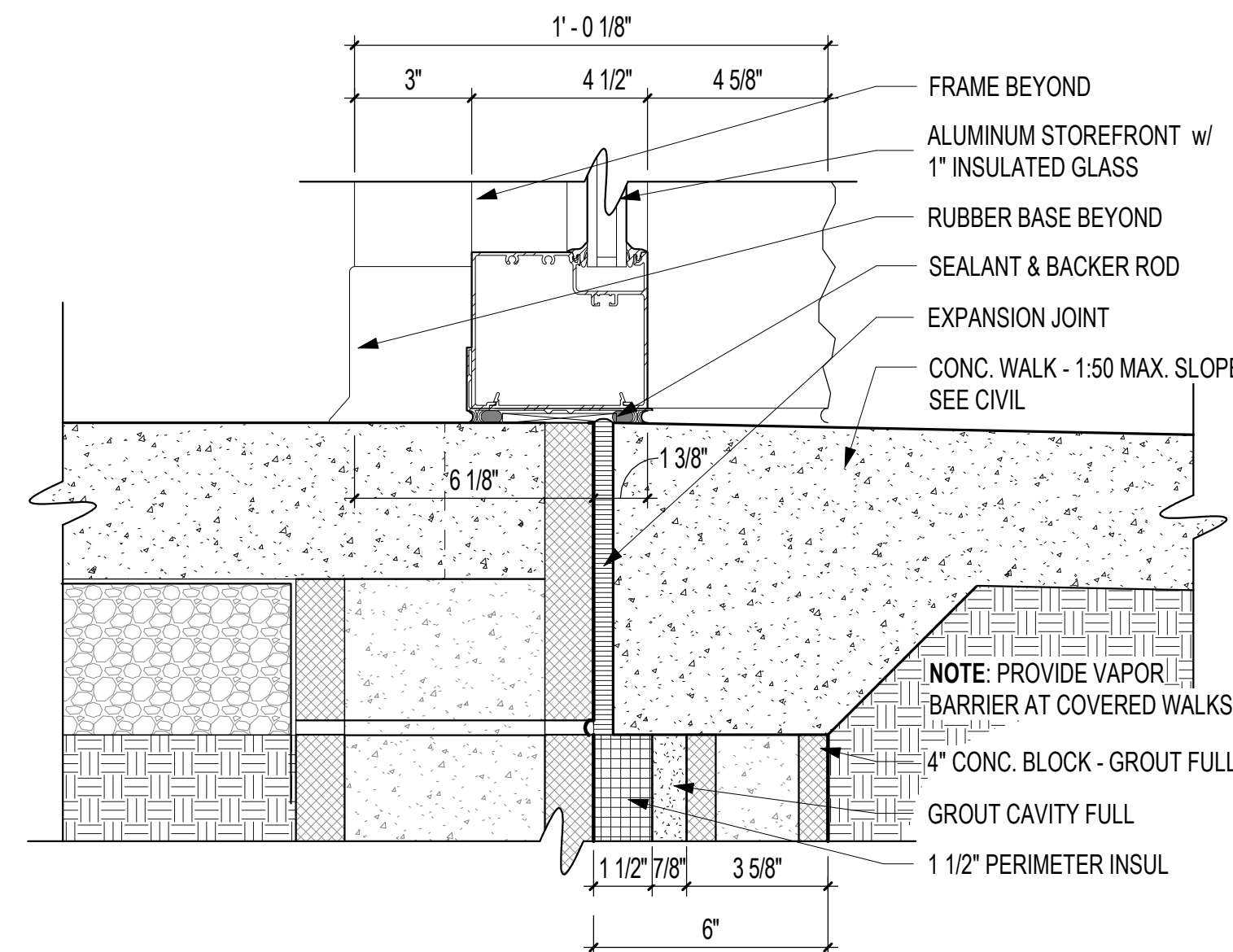
5 AF THRESHOLD - L BLK  
3" = 1'-0" 1 / A-601



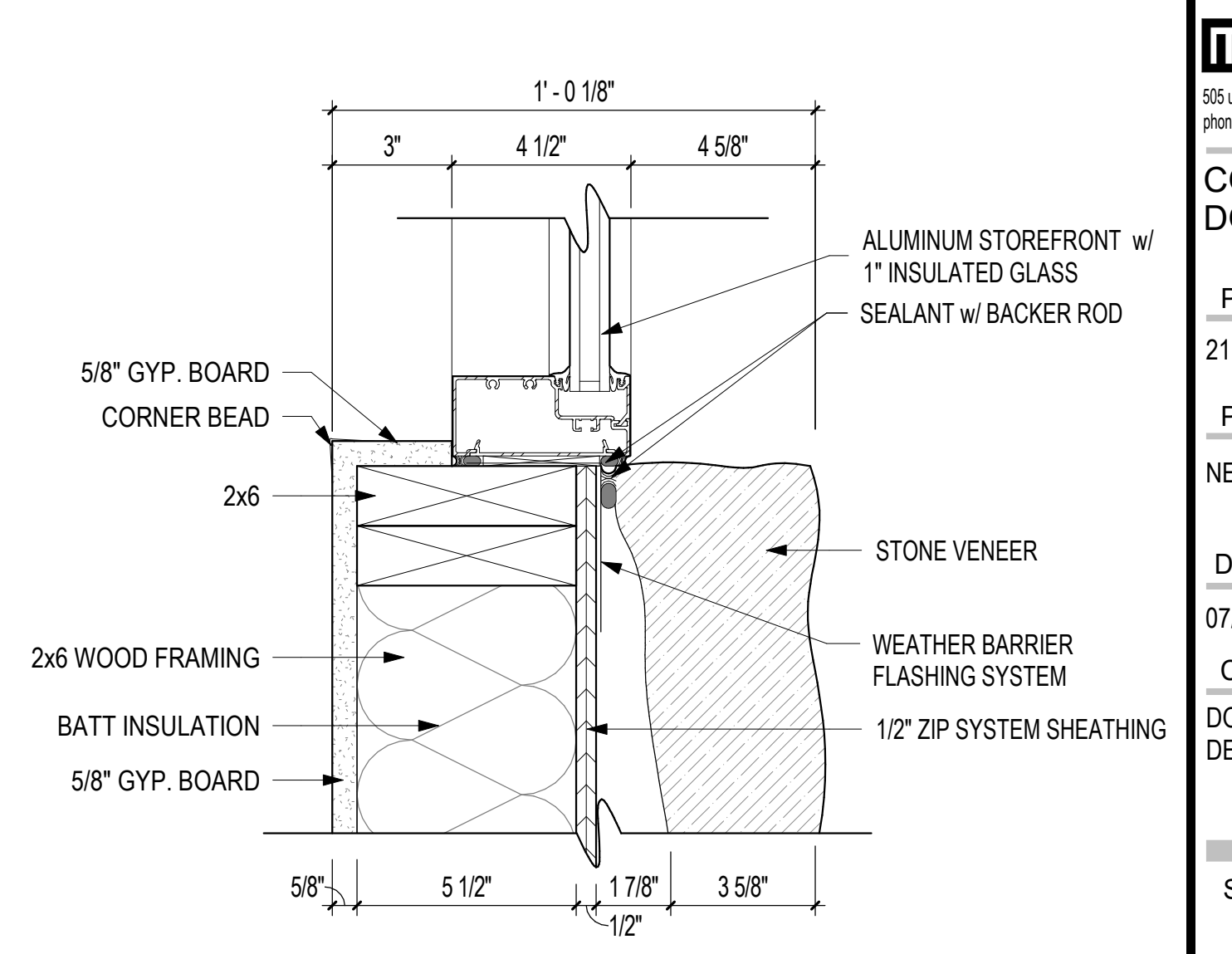
2 AF JAMB DETAIL - W6/CP/Z.5/G.6  
3" = 1'-0" 1 / A-401



9 HMF JAMB DETAIL - W6/ST4/Z.5/G.6  
3" = 1'-0" 1 / A-601



6 AF SILL AT WALK - L BLK  
3" = 1'-0" 2 / A-601



3 AF JAMB DETAIL - W6/ST4/Z.5/G.6  
3" = 1'-0" 1 / A-401

8/10/2021 2:23:39 PM



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REGISTERED ARCHITECTS  
ARKANSAS  
6/7/09/21

CONSTRUCTION DOCUMENTS

PROJECT NO. 2114

PROJECT NAME NEW SENIOR CENTER

DATE 07/09/21

CONTENTS DOOR AND WINDOW DETAILS

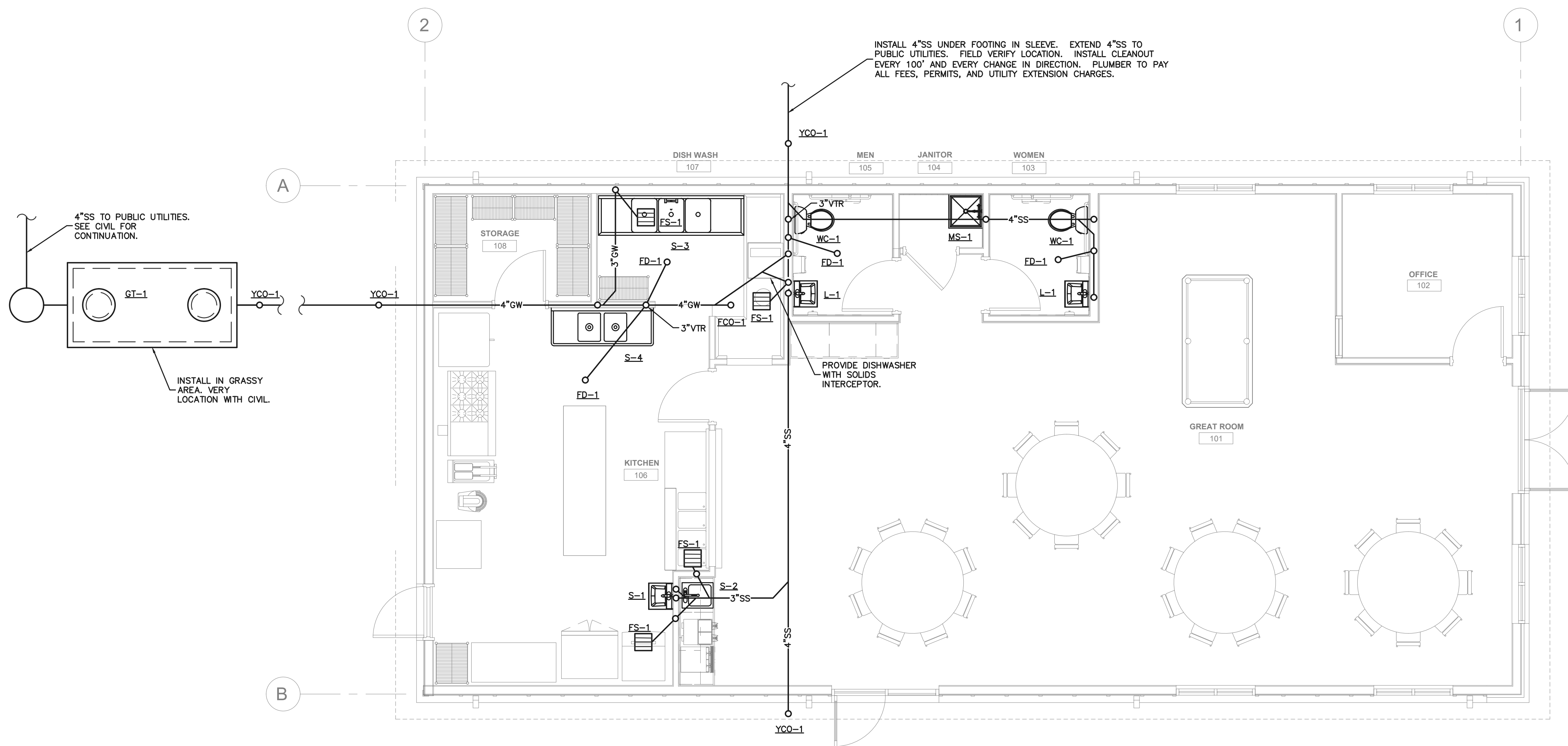
SHEET NUMBER A-602





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**SEWER PLAN**  
1/4" = 1'-0"  
SCALE: 1/4" = 1'-0"

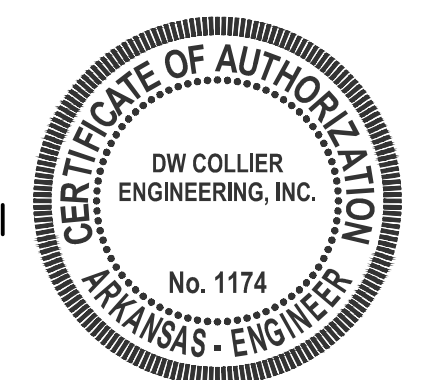
- GENERAL NOTES:
1. ALL WATER CLOSETS SHALL RECEIVE A 2" VENT, ALL OTHERS SHALL RECEIVE 1 1/2" VENT UNLESS OTHERWISE NOTED. COORDINATE VENT THROUGH ROOF (VTR) LOCATIONS WITH ROOFTOP EQUIPMENT AND FRESH AIR INTAKES. MAINTAIN 10' MINIMUM CLEARANCE FROM FRESH AIR INTAKES.
  2. ALL WATER CLOSETS SHALL RECEIVE A 4"SS CONNECTION, ALL FLOOR DRAINS SHALL RECEIVE A 3"SS CONNECTION, ALL OTHERS SHALL BE 2"SS UNLESS OTHERWISE NOTED.
  3. ALL FPWH SHALL RECEIVE 3/4"DCW, ALL OTHER FIXTURES SHALL RECEIVE 1/2" UNLESS OTHERWISE SPECIFIED.
  4. COORDINATE KITCHEN PLUMBING REQUIREMENTS WITH FINAL EQUIPMENT SELECTIONS AS PROVIDED BY OWNER. CONNECT EQUIPMENT TO PLUMBING LINES AS REQUIRED.
  5. SANITARY VENT AND GREASE VENT SYSTEMS SHALL REMAIN SEPARATE.
  6. VERIFY GREASE SYSTEM INSTALLATION DETAILS WITH AHJ PRIOR TO CONSTRUCTION.

LEGEND	
SS	SANITARY SEWER
V	VENT, VTR(VENT THRU ROOF)
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
G	NATURAL GAS

**COOPER MIXON**  
ARCHITECTS  
305 Union Street, 2nd fl. Jonesboro, AR 72401  
phone 870.336.0536 www.coopermixon.com

**CONSTRUCTION DOCUMENTS**

PROJECT NO.	2114
PROJECT NAME	NEW SENIOR CENTER
DATE	2021-7-9
CONTENTS	SEWER PLAN
SHEET NUMBER	P-101



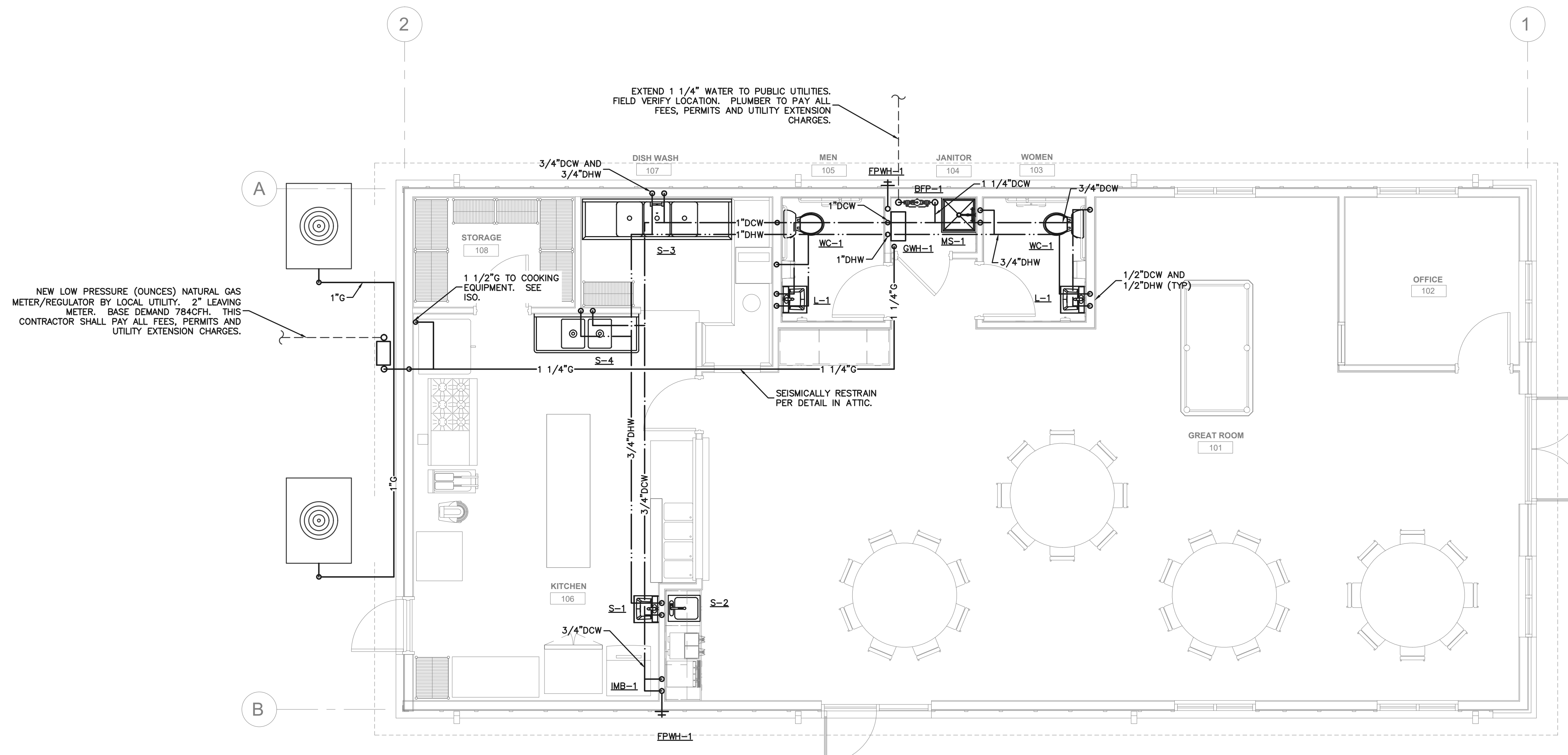
CE PROJECT NO. 21-090



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CITY OF MAMMOTH SPRING

MAMMOTH SPRING, ARKANSAS

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NEW LOW PRESSURE (OUNCES) NATURAL GAS METER/REGULATOR BY LOCAL UTILITY. 2" LEAVING METER. BASE DEMAND 784CFH. THIS CONTRACTOR SHALL PAY ALL FEES, PERMITS AND UTILITY EXTENSION CHARGES.

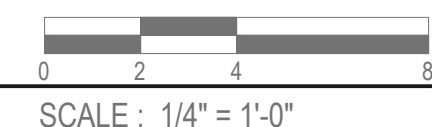
EXTEND 1 1/4" WATER TO PUBLIC UTILITIES. FIELD VERIFY LOCATION. PLUMBER TO PAY ALL FEES, PERMITS AND UTILITY EXTENSION CHARGES.

1 1/2" G TO COOKING EQUIPMENT. SEE ISO.

SEISMICALLY RESTRAIN PER DETAIL IN ATTIC.

PLUMBING/PIPING PLAN

1/4" = 1'-0"



GENERAL NOTES:

1. ALL WATER CLOSETS SHALL RECEIVE A 2" VENT. ALL OTHERS SHALL RECEIVE 1 1/2" VENT UNLESS OTHERWISE NOTED. COORDINATE VENT THROUGH ROOF (VTR) LOCATIONS WITH ROOFTOP EQUIPMENT AND FRESH AIR INTAKES. MAINTAIN 10' MINIMUM CLEARANCE FROM FRESH AIR INTAKES.
2. ALL WATER CLOSETS SHALL RECEIVE A 4"SS CONNECTION, ALL FLOOR DRAINS SHALL RECEIVE A 3"SS CONNECTION, ALL OTHERS SHALL BE 2"SS UNLESS OTHERWISE NOTED.
3. ALL FPWH SHALL RECEIVE 3/4"DCW, ALL OTHER FIXTURES SHALL RECEIVE 1/2" UNLESS OTHERWISE SPECIFIED.
4. COORDINATE KITCHEN PLUMBING REQUIREMENTS WITH FINAL EQUIPMENT SELECTIONS AS PROVIDED BY OWNER. CONNECT EQUIPMENT TO PLUMBING LINES AS REQUIRED.
5. SANITARY VENT AND GREASE VENT SYSTEMS SHALL REMAIN SEPARATE.
6. VERIFY GREASE SYSTEM INSTALLATION DETAILS WITH AHJ PRIOR TO CONSTRUCTION.

LEGEND

SS	SANITARY SEWER
V	VENT, VTR(VENT THRU ROOF)
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
G	NATURAL GAS


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PROJECT NO. 2114

PROJECT NAME NEW SENIOR CENTER

DATE 2021-7-9

CONTENTS

PLUMBING/PIPING PLAN

SHEET NUMBER

P-102



CE PROJECT NO. 21-090

**GENERAL PLUMBING NOTES:**

- ALL WORK SHALL BE EXECUTED AND INSPECTED IN ACCORDANCE WITH ALL LOCAL OR STATE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THE PARTICULAR CLASS OF WORK. IF TO THE KNOWLEDGE OF THE CONTRACTOR, THE DRAWINGS AND SPECIFICATIONS ARE IN CONFLICT WITH THE ABOVE, HE SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT ANY NECESSARY CHANGES CAN BE PROVIDED FOR IN HIS CONTRACT. IF THE CONTRACTOR PERFORMS ANY WORK WITHOUT NOTICE AS REQUIRED, HE SHALL BEAR ALL COSTS OF CORRECTIVE ACTION.
- THE CONTRACTOR SHALL INCLUDE IN HIS QUOTATION ALL APPLICABLE SERVICE CHARGES, FEES, PERMITS, ROYALTIES, AND OTHER SIMILAR COSTS IN CONNECTION WITH THE WORK. OBTAIN PERMITS, AND REQUEST INSPECTIONS FROM AUTHORITY HAVING JURISDICTION.
- INSTALL WORK IN LOCATIONS SHOWN ON DRAWINGS, UNLESS PREVENTED BY PROJECT CONDITIONS. FOR PURPOSES OF CLEARANCE AND LEGIBILITY, DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC, AND ALTHOUGH SIZE AND LOCATION OF EQUIPMENT ARE DRAWN TO SCALE WHENEVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND SHALL VERIFY THIS INFORMATION AT THE SITE.
- THE DRAWINGS INDICATE REQUIRED SIZE AND POINTS OF TERMINATION OF PIPES AND DUCTS, AND SUGGEST PROPER ROUTES OF PIPE TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS AND PRESERVE CLEARANCES FROM ELECTRICAL PANELS. PLUMBING LINES SHALL NOT BE RUN DIRECTLY OVER ELECTRICAL PANELS. HOWEVER, IT IS NOT INTENDED THAT DRAWINGS INDICATE ALL NECESSARY OFFSETS, AND IT SHALL BE THE WORK OF THIS SECTION TO INSTALL PIPING AND DUCTS IN SUCH A MANNER AS TO CONFORM TO STRUCTURE, AVOID ALL OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGeways CLEAR WITHOUT FURTHER INSTRUCTION OR COST TO THE OWNER.
- CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF CERTIFICATE OF SUBSTANTIAL COMPLETION.
- THE PLUMBING CONTRACTOR SHALL PREPARE SUBMITTALS ON ALL EQUIPMENT AND MATERIALS APPLICABLE TO THIS PROJECT AND SUBMIT TO ENGINEER FOR REVIEW PRIOR TO PROCUREMENT, FABRICATION OR ANY CONSTRUCTION. SUBMITTALS MAY BE MAILED VIA APPROPRIATE CHANNELS OR SUBMITTED IN PDF FORM VIA EMAIL. PARTIAL SUBMITTALS WILL NOT BE REVIEWED.
- TRANSPORT AND HANDLE PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- STORE AND PROTECT PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, WITH SEALS AND LABELS INTACT AND LEGIBLE.
- ALL WATER HEATERS, PUMPS, ETC. SHALL HAVE U.L. LISTING OR EQUIVALENT. VERIFY THAT EACH PIECE OF EQUIPMENT OR SYSTEM HAS BEEN CHECKED FOR PROPER LUBRICATION, DRIVE ROTATION, BELT TENSION, CONTROL SEQUENCE, OR FOR OTHER CONDITIONS WHICH MAY CAUSE DAMAGE.
- DEMONSTRATE OPERATION AND MAINTENANCE OF PRODUCTS TO OWNER'S PERSONNEL ONE WEEK PRIOR TO DATE OF FINAL INSPECTION.
- EXECUTE FINAL CLEANING PRIOR TO FINAL PROJECT ASSESSMENT.
- SEISMICALLY RESTRAIN SUSPENDED PLUMBING EQUIPMENT, GAS PIPING AND HYDRONIC PIPING AS REQUIRED BY LOCAL CODE. PROVIDE SUPPORT AND EQUIPMENT REQUIRED TO CONTROL EXPANSION AND CONTRACTION OF PIPING. PROVIDE LOOPS, PIPE OFFSETS, AND SWING JOINTS, OR EXPANSION JOINTS WHERE REQUIRED.
- SANITARY DRAIN/VENT PIPING LOCATED IN RETURN PLENUM SHALL BE SERVICE WEIGHT CAST IRON (ASTM A74). ALL OTHER SANITARY DRAIN/VENT PIPING MAY BE SCHEDULE 40 PVC (ASTM 2665) OR SERVICE WEIGHT CAST IRON (ASTM A74), CONFORM TO LOCAL CODE REQUIREMENTS.
- DOMESTIC WATER PIPING SHALL BE TYPE "L" COPPER OR SCHEDULE 40 PVC (ASTM D1785), AS LOCAL CODES ALLOW. INSULATE DOMESTIC WATER LINES WITH 1/2" THICK FIBERGLASS. HOT WATER LINES AND ALL RECIRCULATING LOOPS UP TO 1 1/2" SHALL BE INSULATED WITH 1" THICK FIBERGLASS INSULATION. HOT WATER LINES 2" AND LARGER SHALL HAVE 2" THICK FIBERGLASS INSULATION.
- BEFORE COMMENCING WORK ON SANITARY SEWER, CHECK INVERTS AND ENSURE THAT THESE CAN BE PROPERLY CONNECTED WITH SLOPE FOR DRAINAGE AND COVER TO AVOID FREEZING.
- PROVIDE NEW WATER SERVICE COMPLETE WITH REDUCED PRESSURE BACKFLOW PREVENTOR. WHERE WATER PRESSURES EXCEED 80PSI, PROVIDE PRESSURE REDUCING VALVE WITH STRAINER UPSTREAM OF BACKFLOW PREVENTOR.
- PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS WHEREVER JOINTING DISSIMILAR METALS.
- PROVIDE ACCESSIBLE STOPS IN PIPING CONNECTIONS TO ALL PLUMBING FIXTURES.
- ASSURE EXTERIOR WALL CHASES ARE INSULATED TO PREVENT FREEZING. WATER LINES SHALL NOT BE INSTALLED IN AREAS SUBJECT TO FREEZING TEMPERATURES.
- VERIFY MILLWORK DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO ORDERING SINKS AND LAVATORIES. PROVIDE INSULATING ADA PLUMBING JACKETS UNDER EACH ADA FIXTURE WITH EXPOSED DRAIN AND WATER PIPING.
- PROVIDE PIPE LABELS FOR ALL PIPING SYSTEMS.
- PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND ENSURE THAT FLOOR SLOPES TO DRAIN AT FLOOR DRAIN.
- PROVIDE AND INSTALL WADE SHOCKSTOPS FOR DOMESTIC WATER PIPING SYSTEM. TWO REQUIRED PER BATHROOM UNIT. ONE DCW AND ONE DHW. PROVIDE SHUTOFF VALVE FOR SERVICING SHOCKSTOP.
- VERIFY FLOOR PLAN AND WALL/FLOOR/CEILING RATINGS WITH ARCHITECTURAL PLANS. PROVIDE RATED PENETRATIONS AT EACH INSTANCE WHERE PLUMBING INSTALLATION PENETRATES A RATED ASSEMBLY. PENETRATIONS SHALL BE PER DETAILS ON THE DRAWINGS OR SOME OTHER U.L. LISTED DESIGN.
- THIS CONTRACTOR SHALL EXAMINE THE ENTIRE DRAWING PACKAGE AND INCLUDE ALL NECESSARY MATERIAL AND LABOR TO PROVIDE A COMPLETE AND OPERABLE SYSTEM AS INDICATED IN THE ENTIRE DRAWING SET FOR HIS RESPECTIVE SYSTEMS.
- THE PLUMBER SHALL PROVIDE A COMPLETE AND OPERABLE PLUMBING SYSTEM INCLUDING BUT NOT LIMITED TO ALL FIXTURES, BUILDING WATER PIPING AND INSULATION, SITE WATER PIPING, BUILDING WASTE AND VENT PIPING, SITE SEWER, PUBLIC SYSTEM TAP FEES, EXTENSION CHARGES, CLEANING OF WATER SYSTEM, IDENTIFICATION OF ALL PIPING, ETC.
- THE DRAINAGE SYSTEM(S) AND THE VENT SYSTEM(S) SHALL BE TESTED, IN ITS ENTIRETY, FOR 15 MINUTES, WITH A 10 FOOT HEAD OF WATER. THE SYSTEM SHALL PROVE TIGHT AT ALL POINTS. TESTING SHALL BE THUS OR AS PER OTHER METHOD APPROVED BY THE ENGINEER OR LOCAL INSPECTOR. TEST SHALL OCCUR BEFORE ANY BACKFILLING ON UNDERGROUND PORTIONS.
- THE WATER SUPPLY SYSTEM SHALL BE TESTED, IN ITS ENTIRETY, BY FILLING WITH WATER AND PRESSURING TO OPERATING PRESSURE. SYSTEMS OTHER THAN PLASTIC MAY BE PNEUMATICALLY TESTED AT 50 PSI FOR 15 MINUTES IN LIEU OF WATER TEST. ALL TESTS SHALL PROVE THE SYSTEM TIGHT.
- PROVIDE 3/8" DCW CONNECTION TO ICE MAKER IF NECESSARY.
- NATURAL GAS PIPING, IF SHOWN ON THESE DRAWINGS, SHALL BE SCH. 40 BLACK STEEL ABOVE GROUND WITH EITHER THREADED OR WELDED FITTINGS. PAINT PIPING LOCATED OUTDOORS. ALL NATURAL GAS PIPING PERMANENTLY CONCEALED IN WALLS, CHASES, ETC. SHALL HAVE WELDED CONNECTIONS. IF APPROVED BY THE LOCAL GAS UTILITY, PIPE BELOW GRADE MAY BE DRISCOPIPE 6500, OR APPROVED POLYETHYLENE TYPE, INSTALLED TO CONFORM TO MANUFACTURER'S RECOMMENDATIONS AND LOCAL UTILITY REQUIREMENTS. PROVIDE YELLOW COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR INSTALLED ADJACENT TO UNDERGROUND NONMETALLIC PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE ABOVE GROUND AT EACH END OF THE NONMETALLIC PIPING. THE TRACER WIRE SHALL NOT BE LESS THAN 18 AWG AND THE INSULATION TYPE SHALL BE SUITABLE FOR DIRECT BURIAL. ALL NEW OR MODIFIED NATURAL GAS SYSTEMS SHALL BE TESTED AND PURGED PER 2012 IFGC CHAPTER 406.

**PLUMBING SCHEDULE:**

TAG	RUN OUT SIZE			DESCRIPTION
	SEWER	DCW	DHW	
WC-1	4"	1/2"	---	AMERICAN STANDARD, CADET PRO, 215FC004.020, 17" ADA, ELONGATED BOWL, 1.6 GPF, WITH CHURCH, 295C, SEAT, AND SUPPLY & STOP.
L-1	1 1/2"	1/2"	1/2"	AMERICAN STANDARD, 0958008EC, WALL-HUNG LAVATORY, ADA, WITH 0.5GPM AERATOR. PROVIDE MIXING VALVE WITH 110F MAX DELIVERY. BRASS CRAFT, DEARBORN, #507, P-TRAP, 155A, STRAINER, AND #2165 SUPPLIES & STOPS. PROVIDE ZURN 21231 WALL CARRIER WITH CONCEALED SUPPORT ARMS. PROVIDE WITH PORCELAIN SHRULD.
S-1	2"	1/2"	1/2"	ADVANCE TABCO, 7-PS-50, WALL HUNG STAINLESS STEEL HAND SINK WITH FAUCET. 10"x14"x5" PROVIDE WALL CARRIER.
S-2	1 1/2"	1/2"	1/2"	ELKAY, LR-1918, STAINLESS STEEL, 18 GA., SELF-RIMMING, SINGLE COMPARTMENT, DROP-IN, SINK, WITH AMERICAN STANDARD, 7502.170, CENTERSET, GOOSENECK FAUCET, WRISTBLADE HANDLES, GRID STRAINER DRAIN, AND SUPPLIES & STOPS.
S-3	1 1/2"	1/2"	1/2"	ADVANCE/TABCO, TRIPLE BOWL, STAINLESS STEEL SINK, T9-3-54-18RL, 91" TOTAL LENGTH. WITH T&S BRASS AND BRONZE WORK'S, B-0230, SINK MIXING FAUCET WITH 18" SWING NOZZLE.
S-4	1 1/2"	1/2"	1/2"	ADVANCE/TABCO, DOUBLE BOWL, STAINLESS STEEL SINK, T9-2-36-18RL WITH T&S BRASS AND BRONZE WORK'S, B-0230, SINK MIXING FAUCET WITH 18" SWING NOZZLE.
MS-1	3"	1/2"	1/2"	FIAT, MSBID2424, 24x24 MOP SINK. FIAT, B30-AA, FAUCET WITH FIAT, A32-AA, HOSE AND BRACKET. PROVIDE STAINLESS BACKSPASH.
FCO-1	4"	---	---	ZURN, Z-1400, ADJUSTABLE, FLOOR CLEAN-OUT.
YCO-1	4"	---	---	ZURN, EXTERIOR GRADE CLEANOUT.
FPWH-1	---	3/4"	---	ZURN Z-1310 FROSTPROOF WALL HYDRANT.
FD-1	3"	---	---	J.R. SMITH, MODEL 2005-1, FLOOR DRAIN. PROVIDE WITH TRAP PRIMER.
BFP-1	---	1"	---	WATTS, SERIES LF919, REDUCED PRESSURE BACKFLOW PREVENTOR ASSEMBLY WITH STRAINER AND AIR GAP.
IMB-1	---	1/2"	---	GUY GRAY, ICEMAKER BOX. FRMB12, METAL WITH VALVE OR EQUAL.
FS-1	3"	---	---	WATTS, FS710, FLOOR SINK WITH COVER
GT-1	4"	---	---	MINIMUM 750 GALLON, NON-TRAFFIC RATED GREASE TRAP WITH BAFFLES AND VENT INSTALL TANK PER LOCAL CODE. VERIFY ALL REQUIREMENTS WITH AHJ.

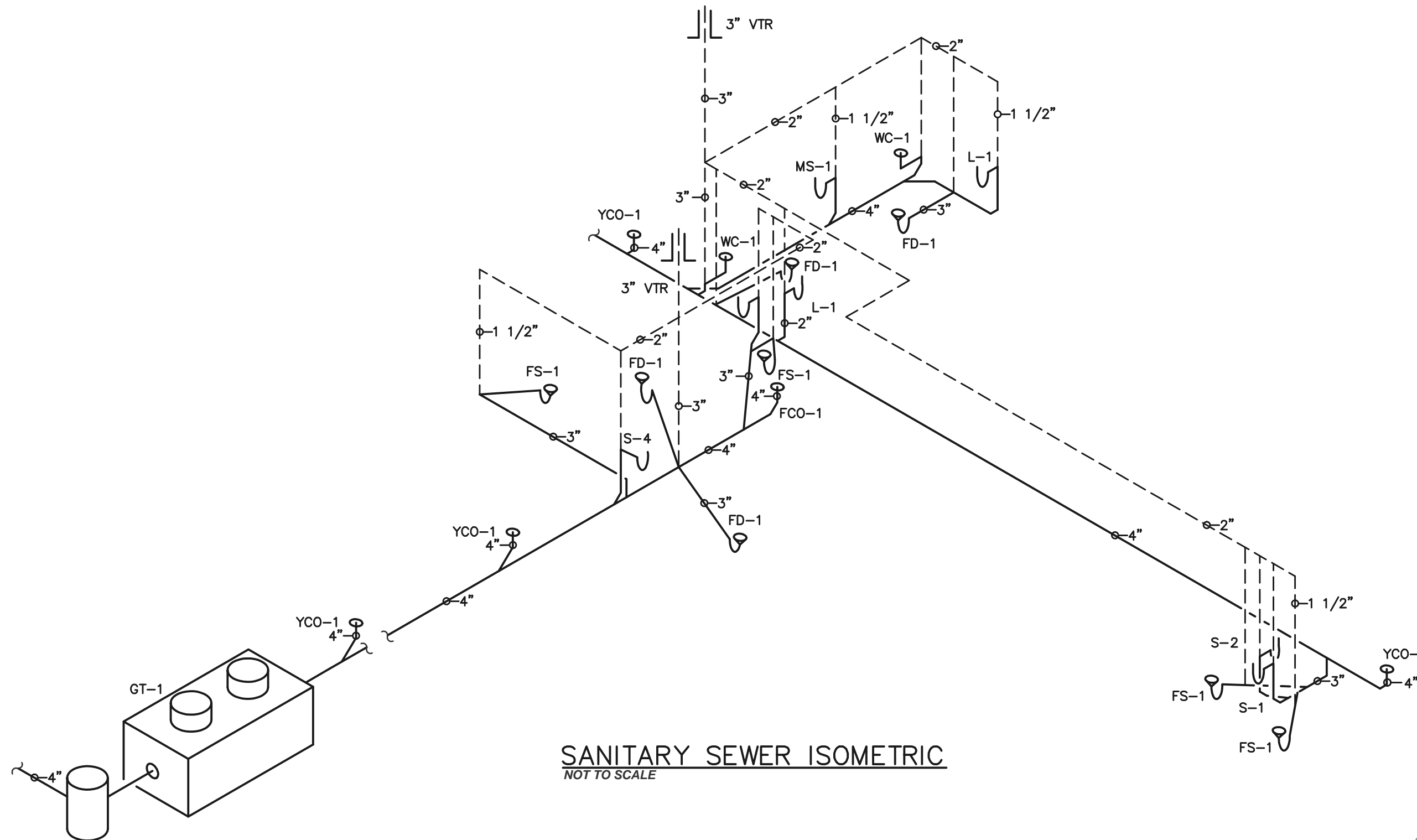
**TANKLESS GAS WATER HEATER SCHEDULE:**

TAG	QTY	DESCRIPTION
GH-1	1	NORITZ NAT. GAS WATER HEATER
		INPUT (BTUH)
		OUTPUT TEMPERATURE
		EFFICIENCY
		NOTES

- VENT PER MANUFACTURER'S RECOMMENDATIONS.
- ISOLATOR KIT
- PROVIDE, INSTALL AND WIRE FACTORY REMOTE CONTROLLER
- VENT CAP
- RELIEF VALVE
- COMMERCIAL MODEL ONLY
- PROVIDE SERVICES OF A FACTORY AUTHORIZED SERVICE REPRESENTATIVE FOR START-UP AND CERTIFICATION.
- PROVIDE WITH PROPERLY SIZED ASME EXPANSION TANK
- MAINTAIN MINIMUM 18" CLEAR ON EACH SIDE OF WATER HEATER AND 36" IN FRONT.
- PROVIDE WITH NORITZ H2FLOW WATER TREATMENT DEVICE OR EQUAL.

**PLUMBING SYSTEM DESIGN BASIS:**

TOTAL WATER SUPPLY FIXTURE UNITS	22
WATER SUPPLY DEMAND (GPM)	12
BUILDING WATER SERVICE SIZE	1 1/4"
TOTAL DRAINAGE FIXTURE UNITS	26
BUILDING SEWER SIZE	4"



**SANITARY SEWER ISOMETRIC**  
NOT TO SCALE



**NEW SENIOR CENTER**  
**CITY OF MAMMOTH SPRING**  
MAMMOTH SPRING, ARKANSAS

NO.	REVISION	DATE	BY	CHKD.	APP'D.

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**CONSTRUCTION DOCUMENTS**

PROJECT NO.  
2114

PROJECT NAME  
NEW SENIOR CENTER

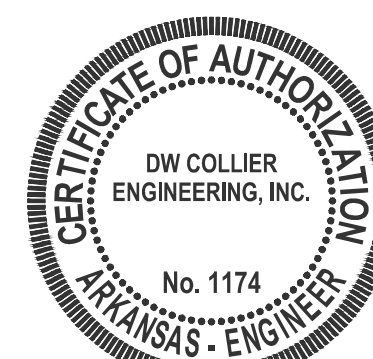
DATE  
2021-7-9

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PLUMBING SCHEDULES

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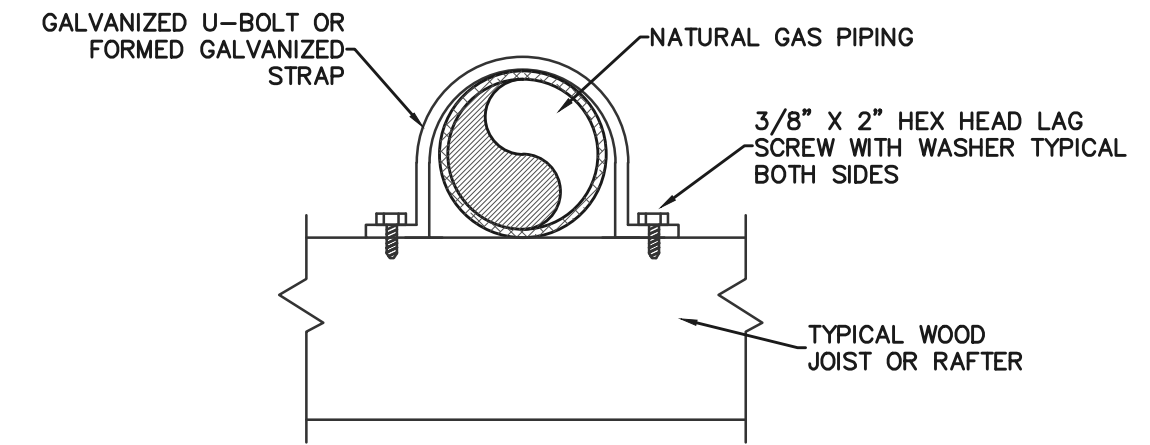
DATE

2021-7-9

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PLUMBING  
DETAILS

SHEET NUMBER

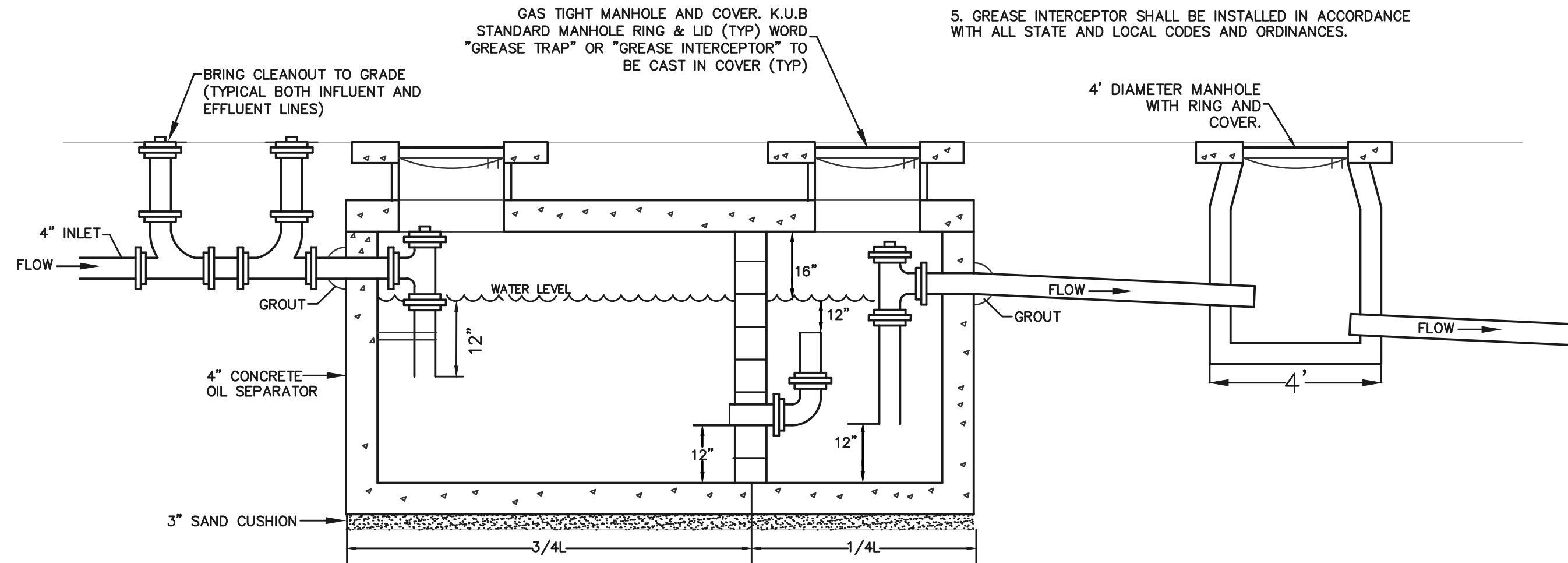


**NOTE:**  
PROVIDE STRAP ANCHOR AS SHOWN AT MINIMUM EVERY 10', ON BOTH SIDES OF EACH ELBOW, AT BRANCH OF EACH TEE, AND AT TOP AND BOTTOM OF EACH RISER. INSTALL BLOCKING BETWEEN JOISTS AS NECESSARY TO MEET SPACING AND LOCATION CRITERIA. PROVIDES LATERAL AND TRANSVERSE BRACING WHEN INSTALLED AS PER CRITERIA. MAXIMUM PIPE SIZE: 2 1/2".

**SEISMIC BRACE DETAIL FOR NATURAL GAS PIPING IN WOOD FRAME CONSTRUCTION.**

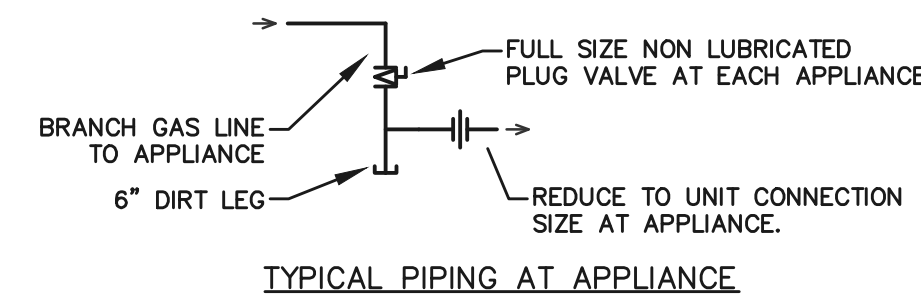
NOT TO SCALE

- NOTES:**
- TANK DIMENSIONS ARE DEPENDENT UPON REQUIRED CAPACITY.
  - MINIMUM TANK CAPACITY IS 750 GALLONS. VERIFY SIZE WITH AHJ.
  - FILL OPENINGS AROUND WALL-PIPE PENETRATIONS WITH NON-SHRINKING GROUT.
  - ALL BRACES, BRACKETS, NUTS AND BOLTS SHALL BE STAINLESS STEEL.
  - GREASE INTERCEPTOR SHALL BE INSTALLED IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES.

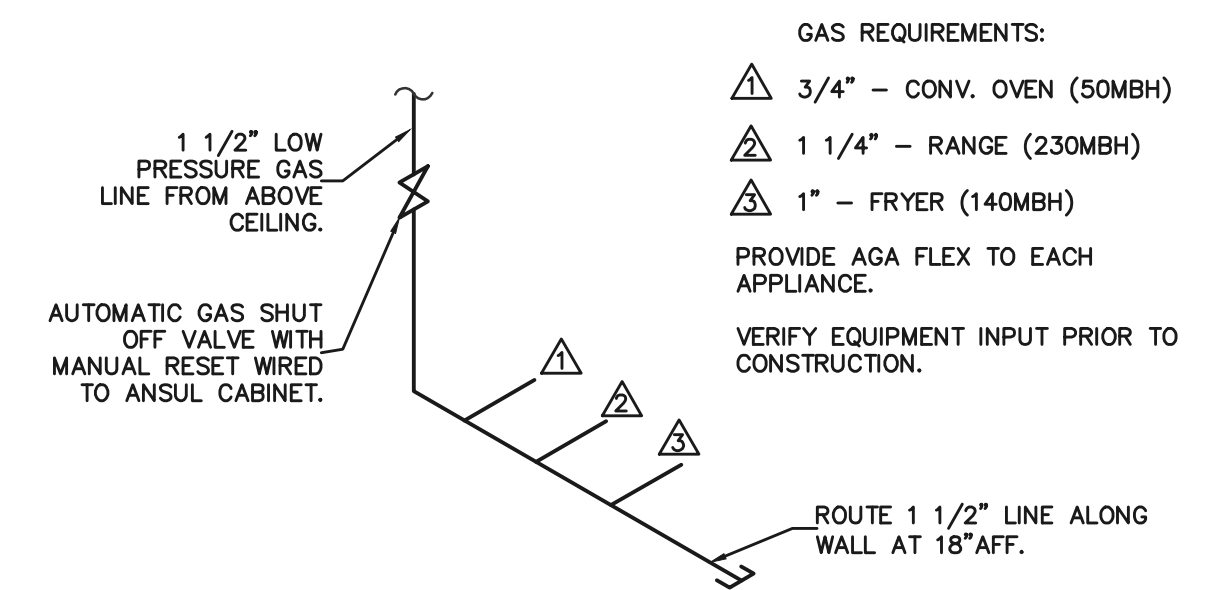


**GREASE INTERCEPTOR DETAIL**

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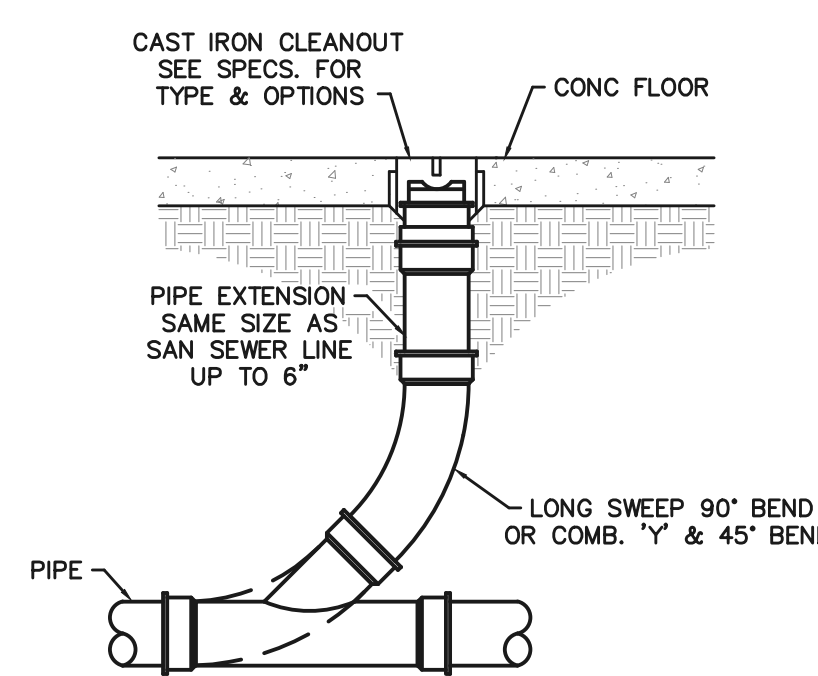


- GENERAL GAS PIPING NOTES:**
- BALL VALVES ARE NOT ACCEPTABLE. ALL VALVES TO BE NON-LUBRICATED PLUG VALVES RATED FOR GAS SERVICE.
  - PIPING, VALVES, UNION, ETC. SHALL REMAIN FULL-SIZE AND SHALL NOT REDUCE TO UNIT CONNECTION SIZE UNTIL WITHIN 6" OF APPLIANCE.
  - ANCHOR GAS PIPING TO APPLIANCE PAD OR BUILDING STRUCTURE WITHIN 36" OF TERMINATION. DIRT LEG AND SHUTOFF VALVE SHALL BE EXPOSED ON ROOF. GAS PIPING SHALL NOT BE INSTALLED IN ROOF CURB OF ANY GAS-FIRED, ROOF-MOUNTED MECHANICAL EQUIPMENT.
  - DIRT LEGS SHALL BE INSTALLED AS SHOWN IN DETAIL, FORMED BY A 6" CAPPED NIPPLE IN THE RUN OF A TEE.
  - PAINT ALL EXPOSED GAS PIPING YELLOW OR GRAY OR SOME OTHER APPROVED COLOR AS DIRECTED BY ARCHITECT OR ENGINEER. WHERE GAS PIPING CAN BE EASILY SEEN AT GRADE, VERIFY COLOR WITH ARCHITECT OR ENGINEER. LABEL ALL GAS PIPING.
  - SYSTEMS INSPECTED AND FOUND TO NOT COMPLY WITH THESE REQUIREMENTS WILL REQUIRE CORRECTION AT NO ADDITIONAL COST TO THE OWNER.



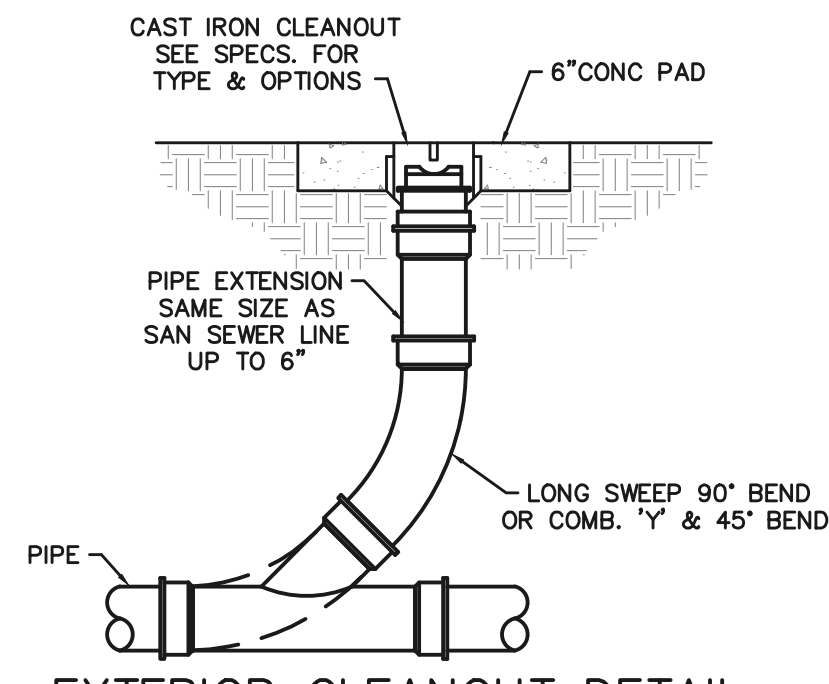
**GAS CONNECTION ISOMETRIC**

NOT TO SCALE



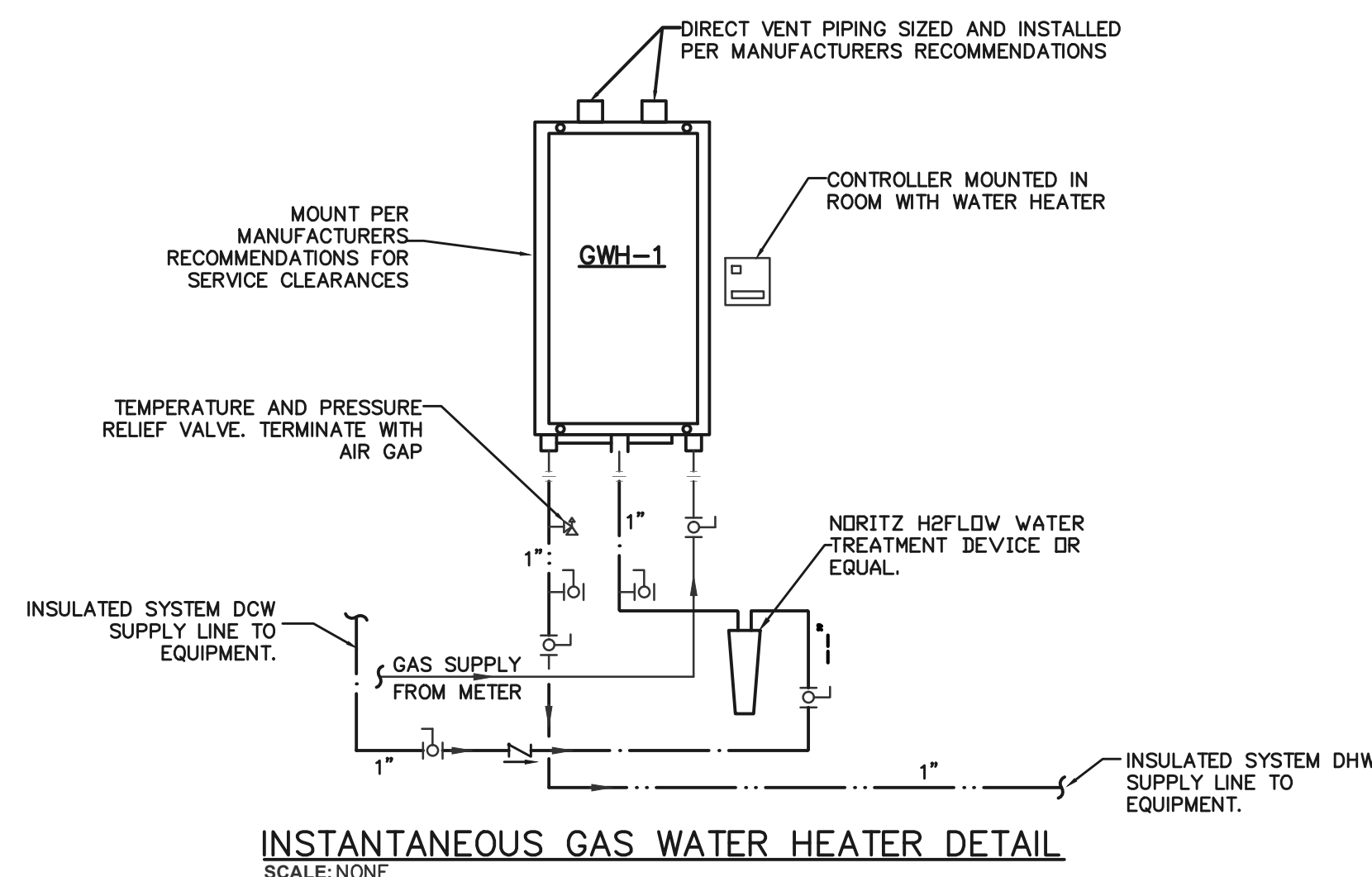
**INTERIOR CLEANOUT DETAIL**

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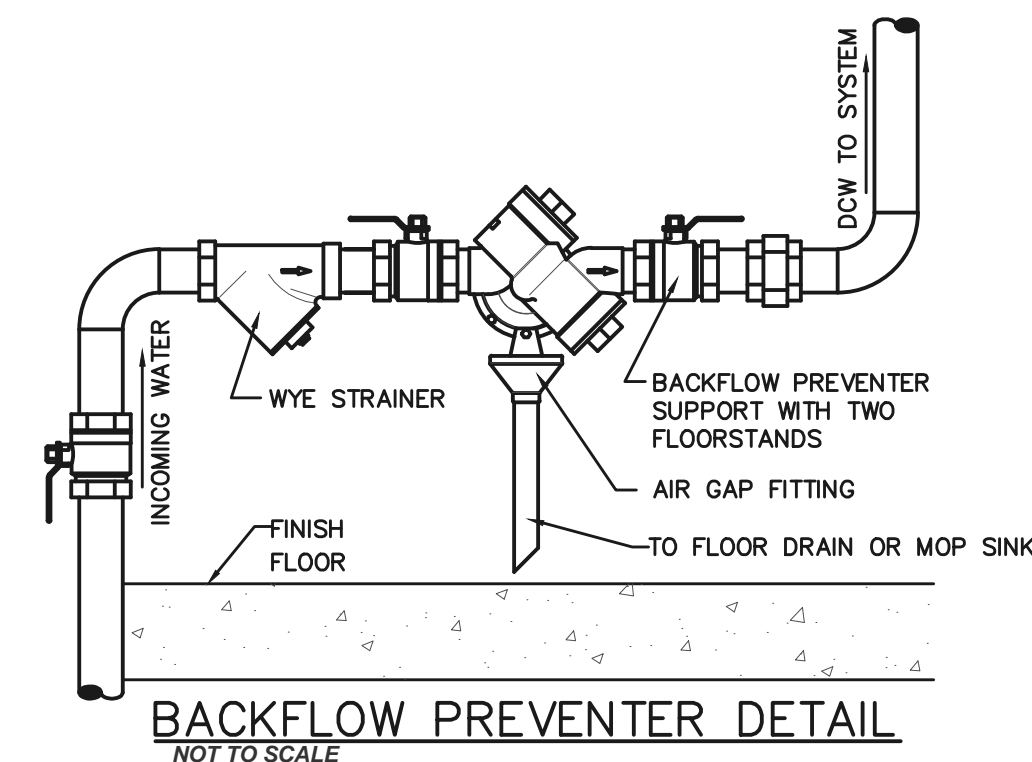
**EXTERIOR CLEANOUT DETAIL**

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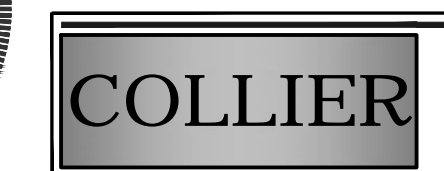
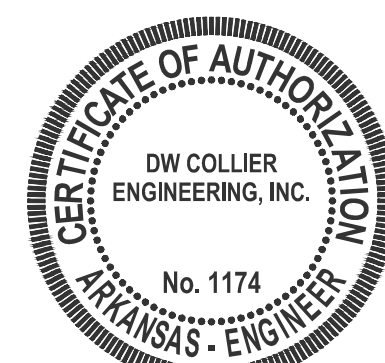
**INSTANTANEOUS GAS WATER HEATER DETAIL**

SCALE: NONE



**BACKFLOW PREVENTER DETAIL**

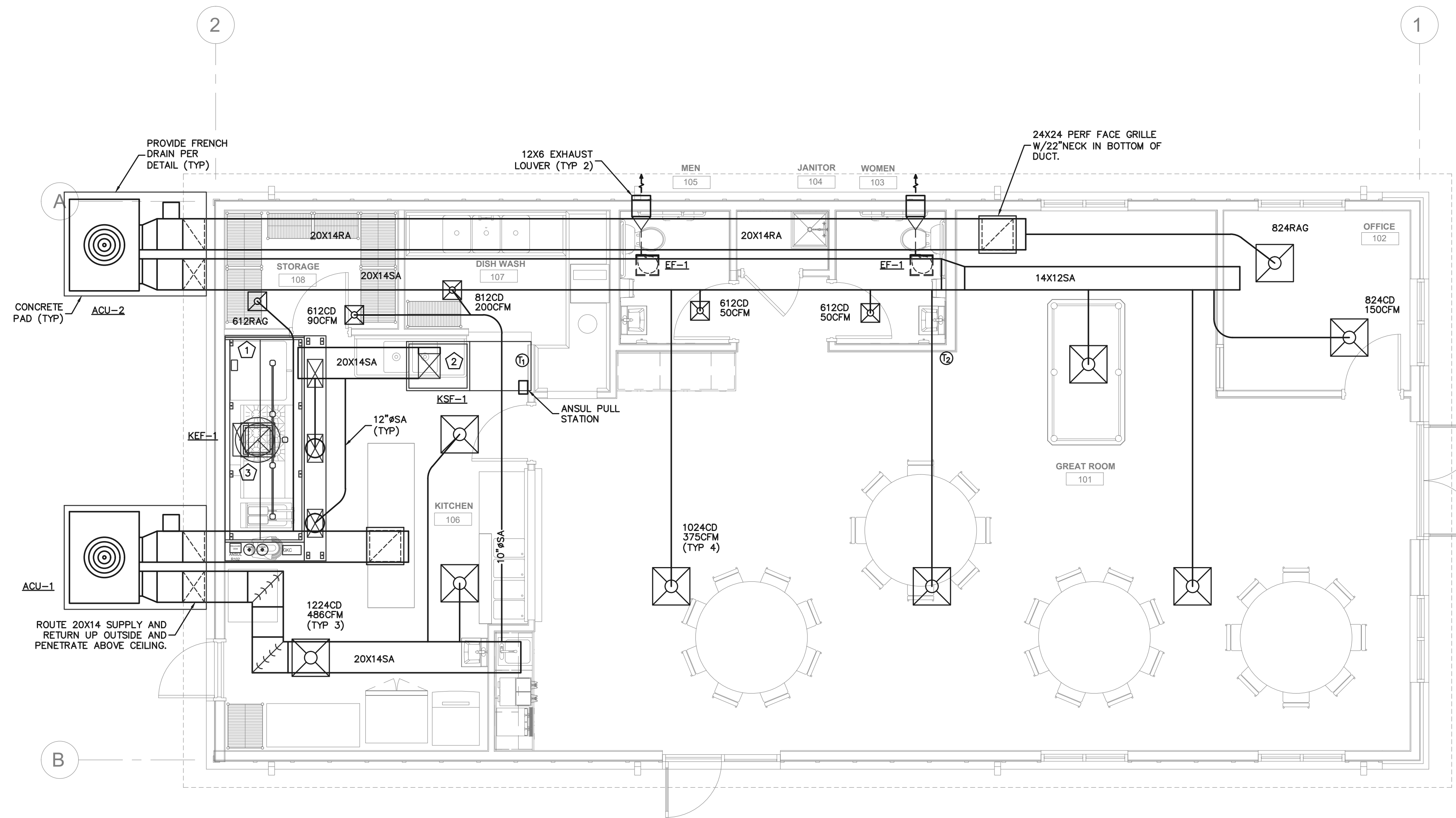
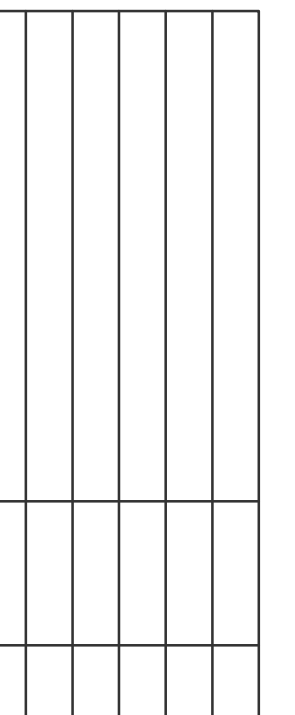
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CE PROJECT NO. 21-090





PROVIDE FRENCH DRAIN PER DETAIL (TYP)

12X6 EXHAUST LOUVER (TYP 2)

24X24 PERF FACE GRILLE W/22"NECK IN BOTTOM OF DUCT.

CONCRETE PAD (TYP)

ROUTE 20X14 SUPPLY AND RETURN UP OUTSIDE AND PENETRATE ABOVE CEILING.

**HVAC PLAN**

1/4" = 1'-0"

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

**KEYED NOTES:**

- ① PROVIDE NEW GREASE EXHAUST FAN, SUPPLY FAN, ANSUL SYSTEM AND GREASE HOOD COMPLETE WITH ROOF CURBS AND DUCTWORK. SEE M-202 AND M-203 FOR ADDITIONAL INFORMATION.
- ② DROP 20X14 DUCT OUT OF KSF-1. SUPPLY DUCT SHALL HAVE 2" EXTERNAL WRAP INSULATION. DROP FULL SIZE BRANCH WITH BALANCING DAMPER TO SUPPLY OPENING IN HOOD.
- ③ ROUTE 14X14 GREASE DUCT UP TO KEF-1. INSULATE, AS REQUIRED, PER DETAIL. DUCT SHALL HAVE CONTINUOUS EXTERNAL WELDS AND CONSTRUCTED PER CODE. NO OFFSETS IN DUCT RISER. SLOPE AT HOOD COLLAR TRANSITIONS SHALL BE MINIMUM 1" SLOPE PER FOOT. MAINTAIN 10' MINIMUM CLEARANCE TO ANY FRESH AIR INTAKE. INSTALL ACCESS PANELS IN DUCT 12" UPSTREAM OF HOOD COLLAR, 12" DOWNSTREAM OF EXHAUST FAN AND AT ANY OFFSET. DROP FULL SIZE BRANCH TO OPENING IN HOOD.

**KITCHEN AIR BALANCE SCHEDULE**

KEF-1	(2,228 CFM)
KSF-1	1,782 CFM
RTU-14FA	446 CFM
BALANCE	0 CFM

**GENERAL NOTES:**

1. DUCT SIZES INDICATED ARE ACTUAL SHEET METAL DIMENSIONS. WRAP ALL DUCTS WITH FOIL BACKED FIBERGLASS INSULATION EQUAL TO CERTAINTED SOFT TOUCH DUCT WRAP, TYPE 75, R-8 MINIMUM. SECURE EXTERNAL INSULATION TO RECTANGULAR DUCTWORK WITH TAPE AND STAPLES, AND INSTALL PANDUIT STRAPS ON 4' CENTERS TO PREVENT SAGGING. SECURE EXTERNAL INSULATION TO ROUND DUCTWORK WITH TAPE AND STAPLES.
2. ALL DUCTWORK INSTALLED IN UNCONDITIONED ATTIC TO RECEIVE R-8 MINIMUM INSULATION.
3. EXHAUST DUCTS (NON GREASE) DO NOT REQUIRE INSULATION.
4. ALL DUCTWORK INSTALLED OUTDOORS SHALL BE EXTERNALLY INSULATED WITH RIGID BLUEBOARD POLYSTYRENE INSULATION, R-8, ADHERED TO DUCT AND COVERED WITH POLYGUARD SELF-ADHESIVE, SELF-HEALING MEMBRANE.
5. INSTALL FIRE BLANKET ON GREASE DUCTS PER DETAIL.
6. COORDINATE GREASE HOOD/FAN INSTALLATION WITH STRUCTURE. VERIFY JOIST LOCATION IN RELATION TO DUCT CONNECTIONS PRIOR TO INSTALLATION.

**LEGEND**

- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- EXHAUST/TRANSFER AIR GRILLE
- THERMOSTAT
- TURNING VANE
- SA SUPPLY AIR
- RA RETURN AIR
- FA FRESH AIR/OUTSIDE AIR
- EA EXHAUST AIR

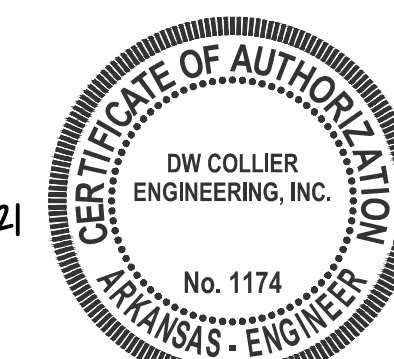
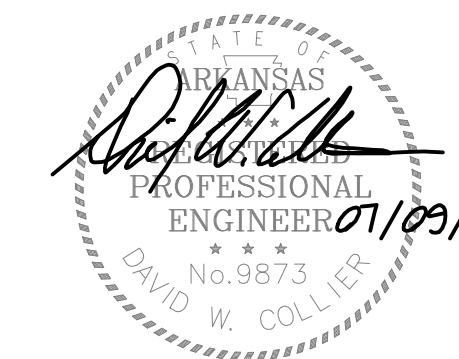
NECK SIZE: (8)(24)(RAG) (XXXCFM)

LAY-IN CEILING SIZE (24"x24")

- RAG - RETURN AIR GRILLE
- CD - CEILING DIFFUSER
- EAG - EXHAUST AIR GRILLE
- SWG - SIDEWALL GRILLE
- TAG - TRANSFER AIR GRILLE

AIR FLOW RATING

NOTE: ROUND BRANCH RUNOUT SIZE SAME SIZE AS DIFFUSER NECK UNLESS OTHERWISE SPECIFIED ON DRAWING.

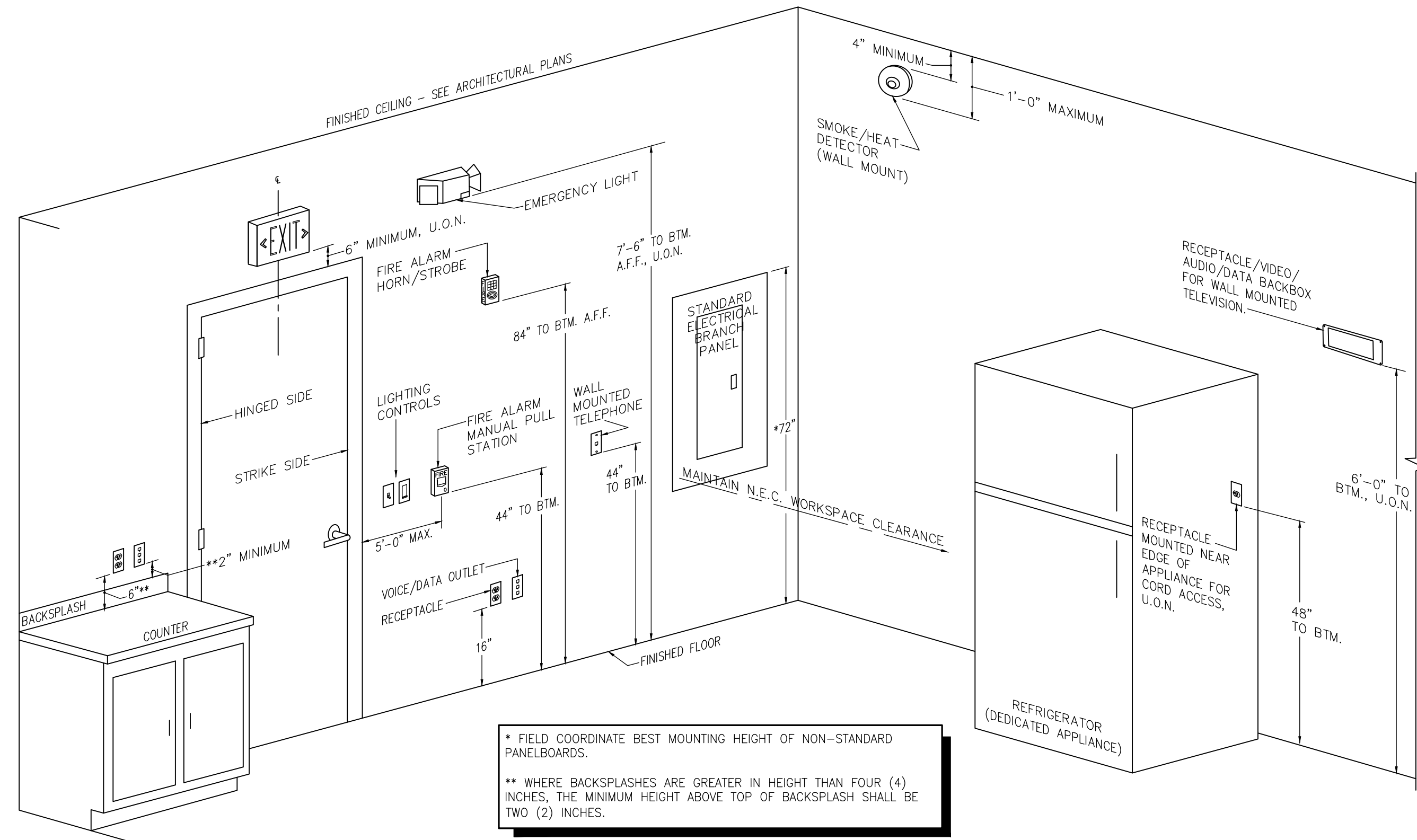




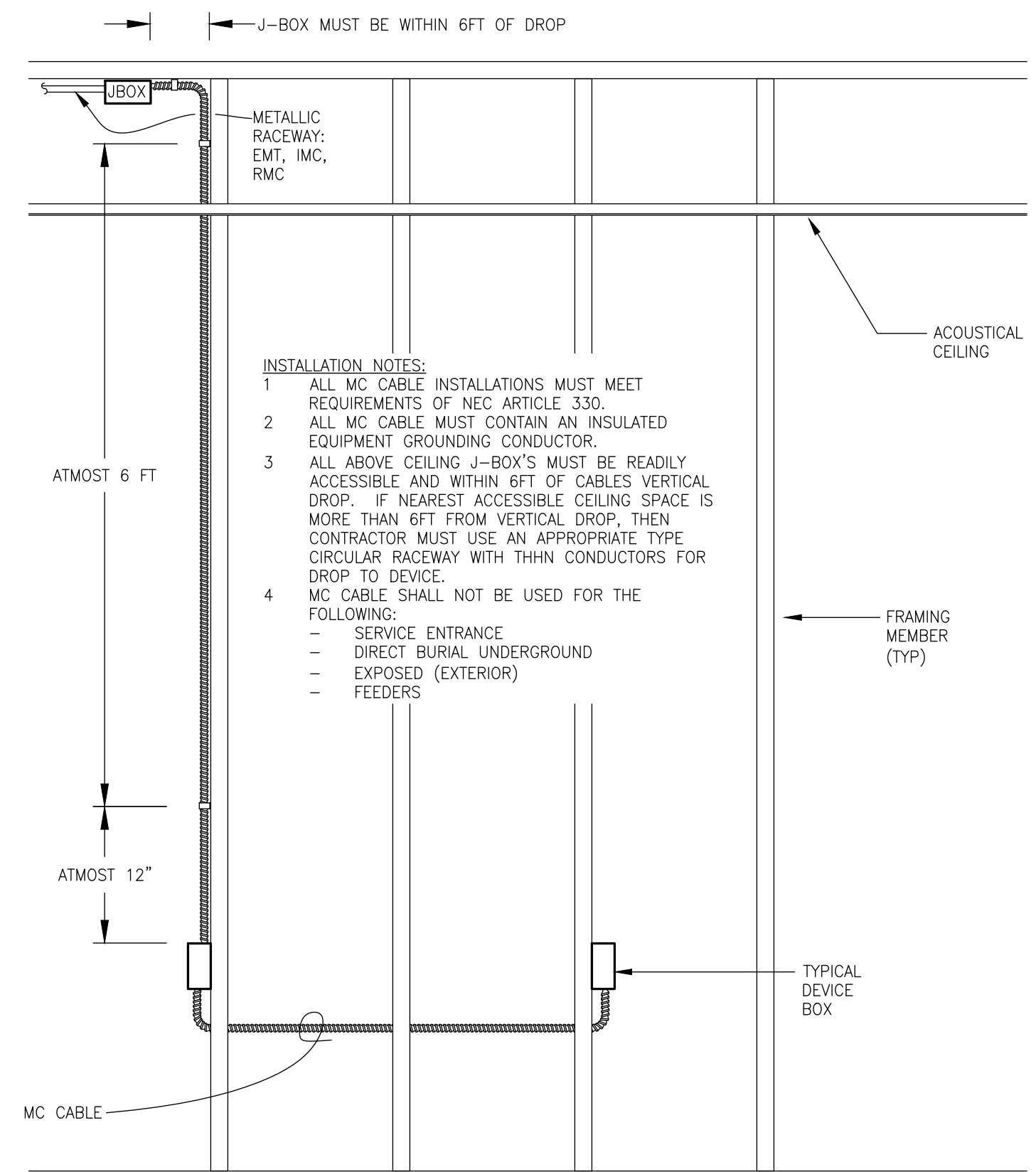






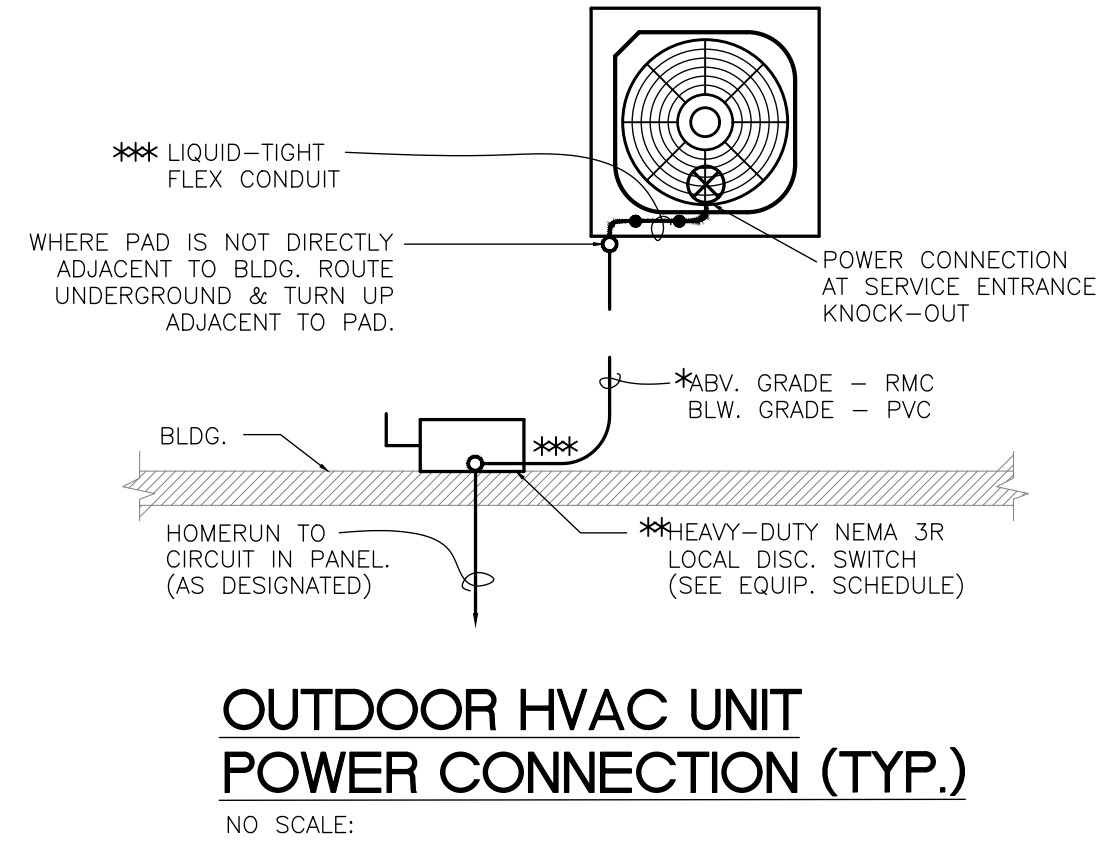


**TYPICAL DEVICE INSTALLATION REQUIREMENTS**  
NO SCALE SEE NFPA 72 AND A.D.A. FOR ADDITIONAL REQUIREMENTS

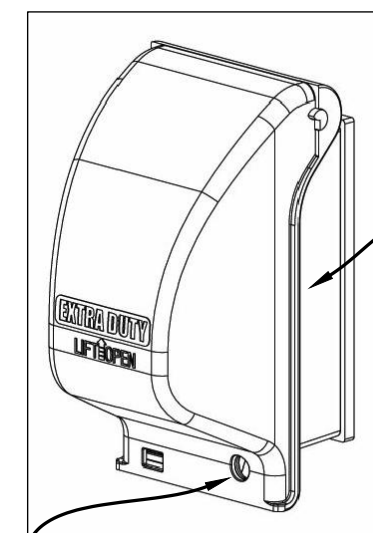


**METAL-CLAD CABLE: TYPE MC - INSTALLATION STANDARD**  
NO SCALE

\*THE USE OF FLEX CONDUIT ROUTED DIRECTLY FROM DISC. TO SERVICE ENTRANCE KNOCK-OUT OF UNIT SHALL BE CONSIDERED UNACCEPTABLE.  
\*\*LOCAL DISC. SWITCH FOR UNIT SHALL NOT BE LOCATED DIRECTLY BEHIND UNIT, UNLESS 36"x30" WORKING CLEARANCE PER N.E.C. IS OBTAINED. OTHERWISE OFFSET DISC. AS SHOWN.  
\*\*\*ALL CONDUITS ABOVE PADS OR ROUTED ALONG WALLS, SHALL BE SUPPORTED WITH UNISTRUT. ALL NO POINT SHALL ANY CONDUIT BE IN DIRECT CONTACT WITH PADS OR BUILDING FINISHES.



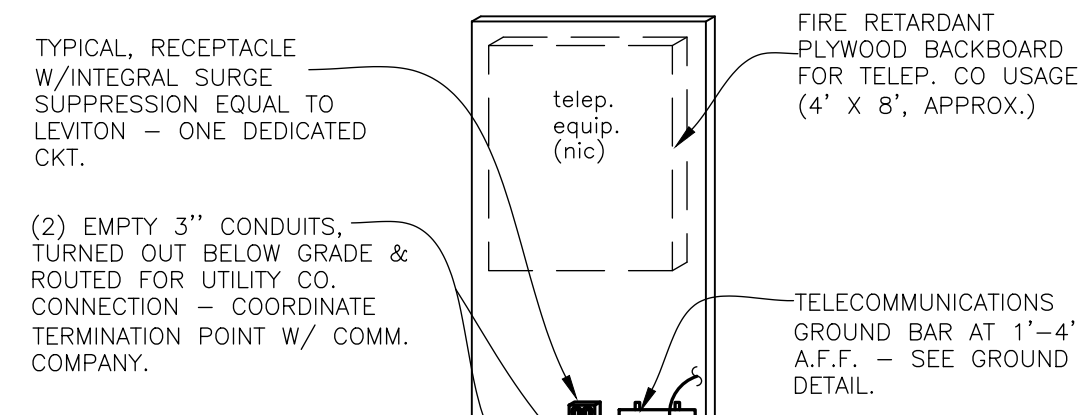
PER N.E.C. 406.9(B), FURNISH AND INSTALL ALL EXTERIOR AND GARAGE RECEPTACLES WITH AN EXTRA-DUTY GRADE "WHITE IN USE" WET LOCATION COVER. THE COVER SHALL BE U.L. 514D LISTED, EQUAL TO TAYMAC #MX3200 FOR SINGLE GANG G.F.C.I. RECEPTACLE. COVER INCLUDE GASKETS AND HARDWARE FOR A COMPLETE INSTALLATION. COVER SHALL BE METALLIC.



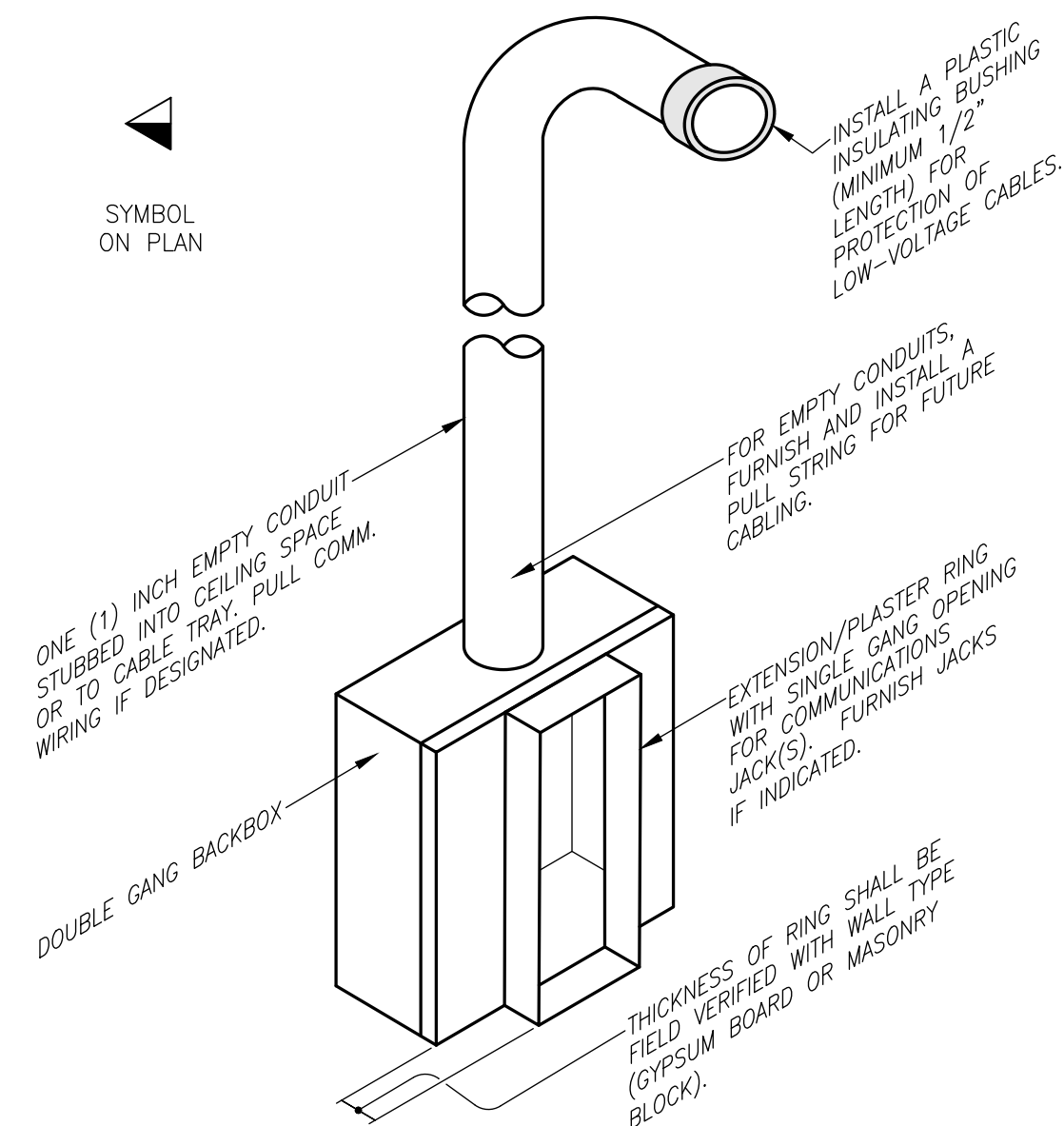
SUITABLE FOR USE WITH ONE (1) 120V, 20A, G.F.C.I. DUPLEX RECEPTACLE

**NOTE:**  
USE TAYMAC #MX6200 WITH TWO (2) 120V, 20A, G.F.C.I. DUPLEX RECEPTACLES

**EXTRA-DUTY DEVICE COVER**  
NO SCALE



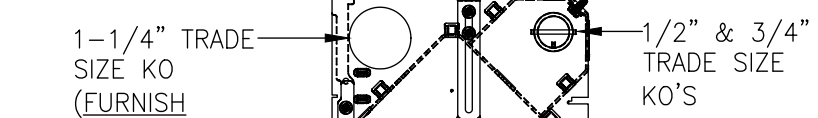
**TELEPHONE EQUIPMENT BACKBOARD**  
NO SCALE



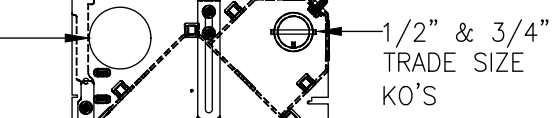
**COMMUNICATIONS OUTLET - DETAIL**  
NO SCALE

**SPECIFICATION NOTE:**

- STEEL 2-GANG WALL BOX WITH TWO (2) NEMA SIZE OPENINGS FOR POWER, COMMUNICATIONS AND A/V DEVICES.
- ADJUSTABLE TRIM RING FOR WALL THICKNESS FROM 1/2" TO 1-1/4".
- FURNISH AND INSTALL FACEPLATES, DEVICES, AND HARDWARE, ETC. AS REQUIRED BY DRAWINGS.
- EQUAL TO PASS & SEYMOUR #TV2MM.
- COORDINATE TELEVISION/MONITOR AND WALL BOX MOUNTING HEIGHT AND PLACEMENT WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
- FURNISH 1-1/4" TO 1" REDUCING WASHER TO FACILITATE CONNECTION OF 1" CONDUIT TO BOX.



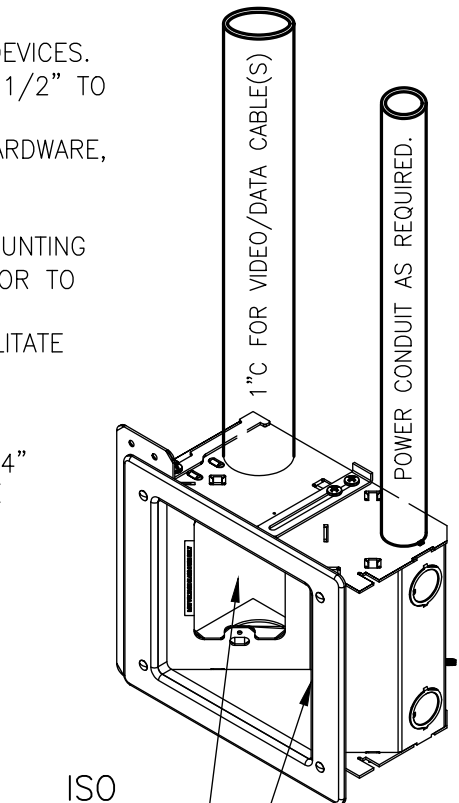
1-1/4" TRADE SIZE KO (FURNISH REDUCING WASHER)



1/2" & 3/4" TRADE SIZE KO'S



SYMBOL ON PLAN



ISO

1-GANG BOX FOR LOW-VOLTAGE CABLES/JACKS. FURNISH AND INSTALL IF DESIGNATED.

FURNISH AND INSTALL A 120V, 20A DUPLEX RECEPTACLE IN 1-GANG BOX FOR POWER.

**FLAT TV / MONITOR BACKBOX DETAIL**  
NO SCALE

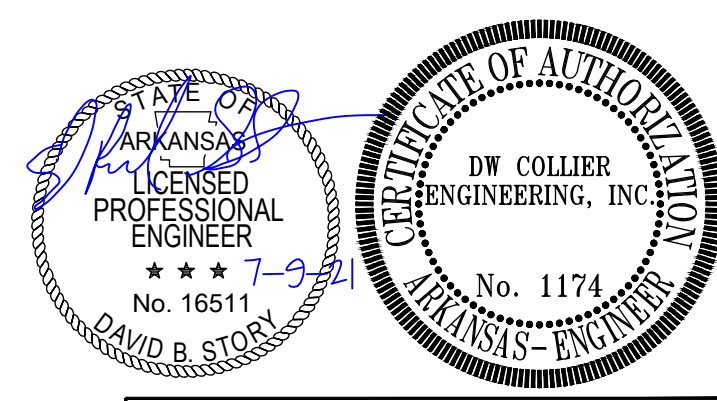


NEW SENIOR CENTER  
**CITY OF MAMMOTH SPRING**  
MAMMOTH SPRING, ARKANSAS


**COOPER MIXON ARCHITECTS**  
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phone 870.336.0536 www.coopermixon.com

**CONSTRUCTION DOCUMENTS**

PROJECT NO. 2114  
PROJECT NAME NEW SENIOR CENTER  
DATE 2021-7-9  
CONTENTS ELECTRICAL DETAILS  
SHEET NUMBER



**COLLIER** ENGINEERING, INC.  
210 BROADWAY STREET SUITE 100 SOUTH FORTION, TN 38307 PH (731) 479-2115 www.dccolliereng.com

CE PROJECT NO. 21-090

**E-002**







## LIGHTING FIXTURE SCHEDULE

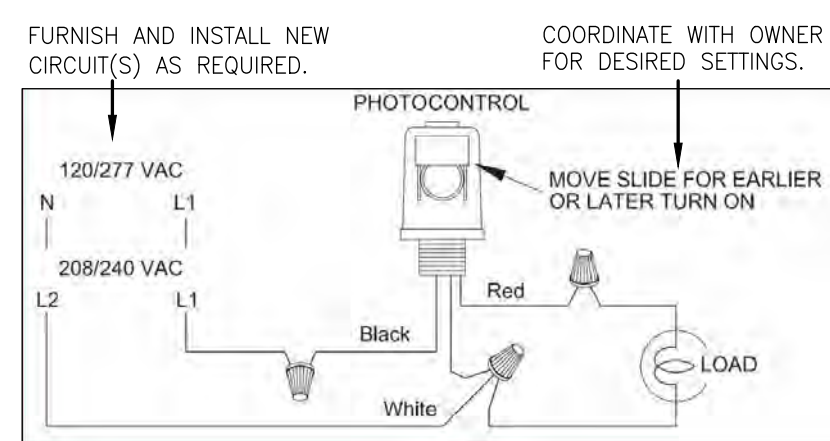
TYPE	MANUFACTURER	CATALOG NUMBER	LAMP	VOLTAGE	INPUT WATTS	MOUNTING	FINISH	REMARKS	SEE NOTES
A	LITHONIA	2BLT4 48L ADP LP835	4800 LUM. LED	120V	38W	RECESSED IN ACOUSTIC TILE	WHITE	2'X4' RECESSED LED WITH CURVED CENTER DIFFUSER	2
	OR EQUAL								
B#	LITHONIA	CPANL 2X4 40/50/60LM 40K	4K/5K/6K LUM. LED	120V	32/42 /52 W	RECESSED IN ACOUSTIC TILE	WHITE	2'X4' RECESSED FLAT PANEL WITH SELECTABLE LUMEN DRIVER #4 4000LUM, #5 5000LUM, #6 6000LUM	2
	OR EQUAL								
C	LITHONIA	LDN6 35/15 L06 AR LSS	1500 LUM. LED	120V	20.5W	RECESSED IN A.C.T. OR GYP. BOARD	CLEAR TRIM SEMI-SPECULAR	6" ROUND LED DOWNLIGHT	2
	OR EQUAL	MVOLT EZ10							
D	LITHONIA	FMVCL 24IN MVOLT 30K BN	1391 LUM. LED	120V	17.7W	WALL MOUNT ABOVE MIRROR	BRUSHED NICKEL	2FT LED CYLINDER VANITY	
	OR EQUAL								
E	LITHONIA	ELM6L UVOLT SDRT	1100 LUM. LED	120V		WALL MOUNT @ 7'-6" TO BOTTOM A.F.F.	WHITE	TWO HEAD EMERGENCY LIGHT UNIT W/ SELF DIAGNOSTICS	1
	OR EQUAL								
F	LITHONIA	WDGE2 P4 40K VF MVOLT	4500 LUM. LED	120V	35W	WALL MOUNT @ 10'-0" ABV FINISHED GRADE	DARK BRONZE	LED WALL PACK - ARCHITECTURAL WEDGE SHAPE - FORWARD THROW	
	OR EQUAL	DDBXD							
FE	LITHONIA	WDGE2 P4 40K VF MVOLT	4500 LUM. LED	120V	35W	WALL MOUNT @ 10'-0" ABV FINISHED GRADE	DARK BRONZE	LED WALL PACK - ARCHITECTURAL WEDGE SHAPE - FORWARD THROW INTEGRAL EMERGENCY BATTERY	3
	OR EQUAL	E10WH DDBXD							
G	LITHONIA	CSS L48 AL03 MVOLT	5000 LUM. LED	120V	43.9W	SURFACE	WHITE	4 FT LED STRIP LIGHT W/ FROSTED DIFFUSER	
	OR EQUAL	40K B0CRI							
1XH,2XH	LITHONIA	LHQM LED R HO SD	LED	120V		UNIVERSAL CANOPY	WHITE WITH RED LETTERS	LED COMBO LIGHT/EXIT SIGN WITH ARROW KNOCKOUTS, SELF-DIAGNOSTIC, AND HIGH OUTPUT TO POWER REH. 2-SIDED FIELD CONVERTIBLE.	1,4
	OR EQUAL								
REH	LITHONIA	ELA T OWP L0309 SD	LED-1.5W PER HEAD	9.6V		WALL MOUNT 7'-0" A.F.F.	STANDARD FINISH	TWIN REMOTE HEADS POWERED FROM "XE" OR "XH" W/ SELF DIAGNOSTICS	
	OR EQUAL								

### NOTES FOR SPECIFIC FIXTURES:

- THESE FIXTURE TYPES SHALL BE A SELF-CONTAINED EMERGENCY UNIT COMPLETE WITH BATTERIES, CHARGERS AND TRANSFER MECHANISMS AND SHALL BE CONNECTED TO UNSWITCHED CONDUCTORS. THESE FIXTURES SHALL BE CONNECTED TO THE CIRCUIT SERVING NORMAL POWERED LIGHTING FIXTURES IN THE SAME SPACE PER N.E.C. #700.12(F).
- SEE SEISMIC DETAIL. LAY-IN FIXTURES SHALL BE SUPPORTED WITH A MINIMUM OF FOUR (4) INDEPENDENT WIRES SEPARATE FROM CEILING SUPPORT WIRES. FURNISH DOWNLIGHTS ("CAN LIGHTS") WITH A MINIMUM OF TWO (2) INDEPENDENT WIRES SEPARATE FROM CEILING SUPPORT WIRES.
- FIXTURE TYPES "FE" ARE THE SAME AS FIXTURE TYPES "F", RESPECTIVELY, EXCEPT WITH SELF-CONTAINED EMERGENCY BATTERY BACKUP AND FACTORY MOUNTED INTEGRAL TEST SWITCH IN FIXTURE. PULL AN UNSWITCHED CONDUCTOR TO THE SELF-CONTAINED EMERGENCY BATTERY UNIT TRANSFER MECHANISM. SEE N.E.C. #700.12(F).
- THE NUMBER AT BEGINNING OF FIXTURE ID INDICATES IF THE EXIT SIGN SHOULD BE ONE OR TWO-SIDED.

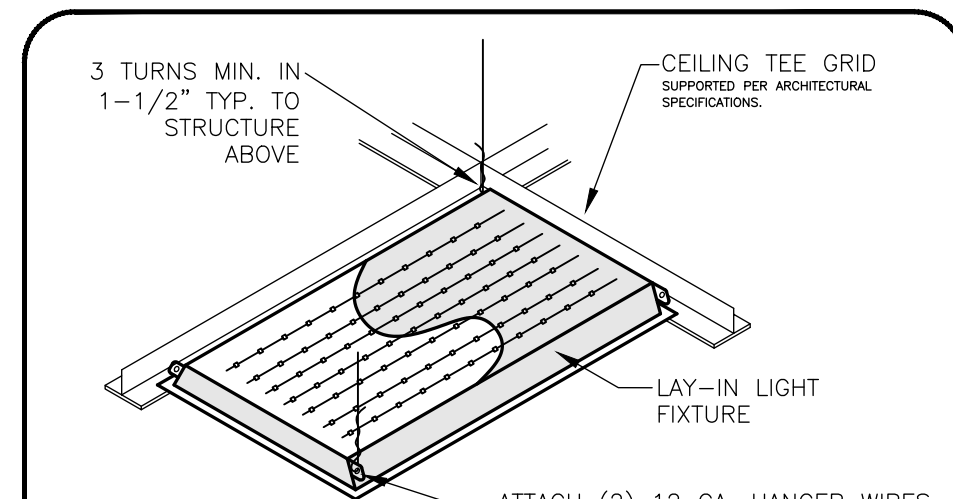
**SPECIFICATION:**  
FURNISH AND INSTALL A NEW PHOTOELECTRIC SWITCH FOR CONTROL OF EXTERIOR LIGHTING. UNIT SHALL BE SUITABLE FOR MOUNTING TO 1/2" CONDUIT AND BE PROVIDED WITH INTEGRAL GASKETING FOR EXTERIOR USE. UNIT SHALL BE MOUNTED TO FASCIA SUCH THAT NO AREA LIGHTING WILL PREVENT UNIT FROM OPERATING PROPERLY AT NIGHT. UNIT SHALL BE UL LISTED FOR USE WITH LED LIGHTING UP TO 600VA. UNIT SHALL FAIL IN THE "ON" POSITION AND SHALL OPERATE IN TEMPERATURE RANGE OF (-40°F TO +140°F).

120V = EQUAL TO TORK #2101 (ACCESSORY MOUNTING BRACKET #73866)  
208V = EQUAL TO TORK #2104 (ACCESSORY MOUNTING BRACKET #73866)



### PHOTOCONTROL DETAIL

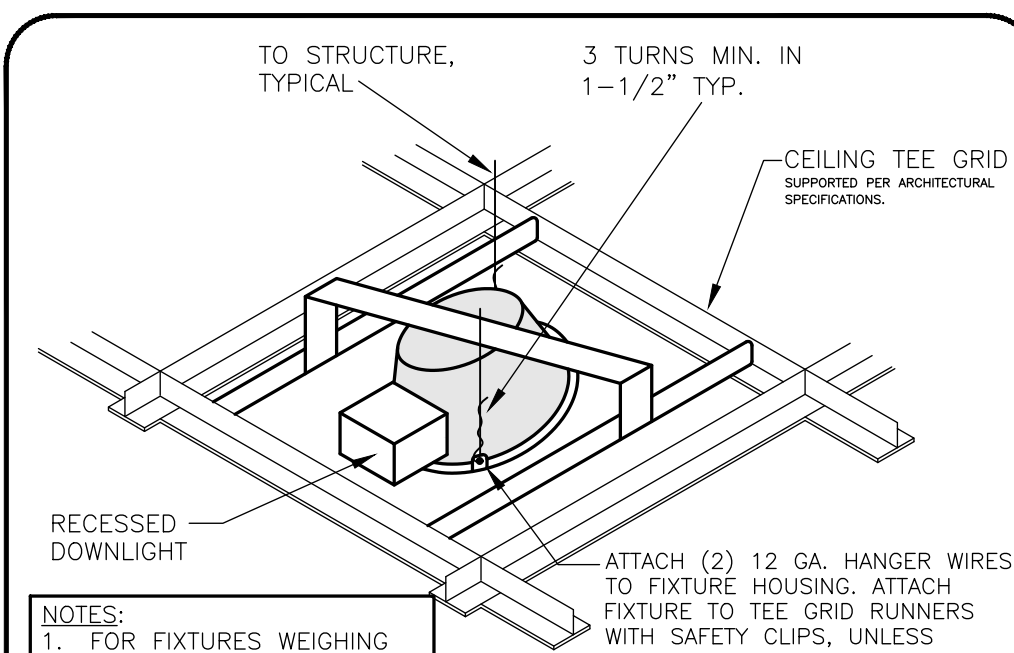
NO SCALE:



ATTACH (2) 12 GA. HANGER WIRES TO FIXTURE HOUSING. ATTACH FIXTURE TO TEE GRID RUNNERS WITH SAFETY CLIPS, UNLESS FIXTURE HAS INTEGRAL SAFETY CLIPS. SUPPORT WIRES/HANGERS SHALL BE IDENTIFIED PER N.E.C. 300.11(A)(2).

### LIGHTING FIXTURE SEISMIC DETAIL (TROFFER)

NO SCALE



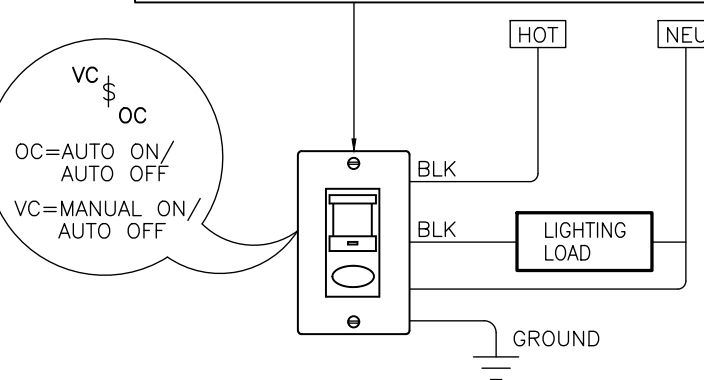
ATTACH (2) 12 GA. HANGER WIRES TO FIXTURE HOUSING. ATTACH FIXTURE TO TEE GRID RUNNERS WITH SAFETY CLIPS, UNLESS FIXTURE HAS INTEGRAL SAFETY CLIPS. SUPPORT WIRES/HANGERS SHALL BE IDENTIFIED PER N.E.C. 300.11(A)(2).

### LIGHTING FIXTURE SEISMIC DETAIL (DOWNLIGHT)

NO SCALE

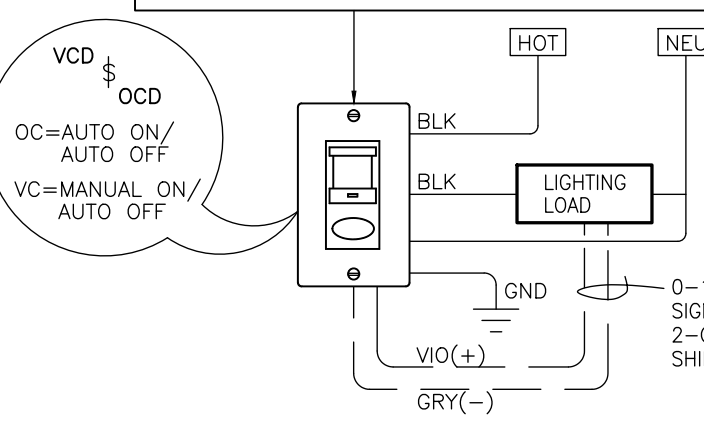
(LIMITED TO 800W LOAD APPLICATIONS @120V OR 1200W @277V)

WALL MOUNTED VACANCY/OCCUPANCY SENSOR:  
VACANCY (VC) = SENSORSWITCH #WSXA-PDT-SA  
OCCUPANCY (OC) = SENSORSWITCH #WSXA-PDT  
OCCUPANCY TIME DELAY = 10 MINUTES MINIMUM



(LIMITED TO 800W LOAD APPLICATIONS @120V OR 1200W @277V)

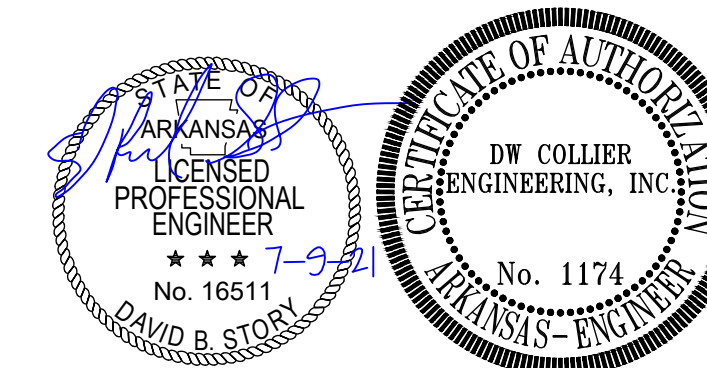
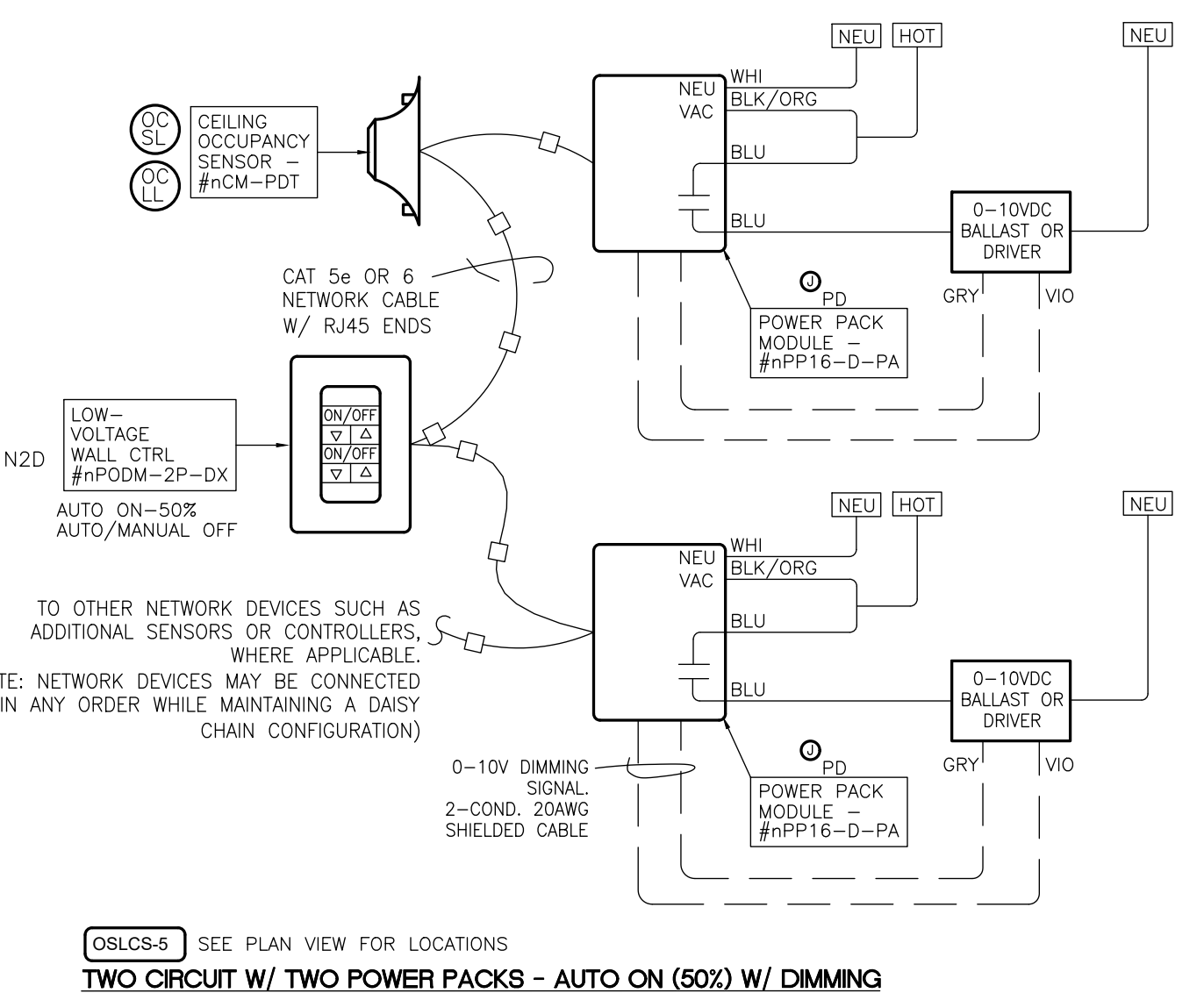
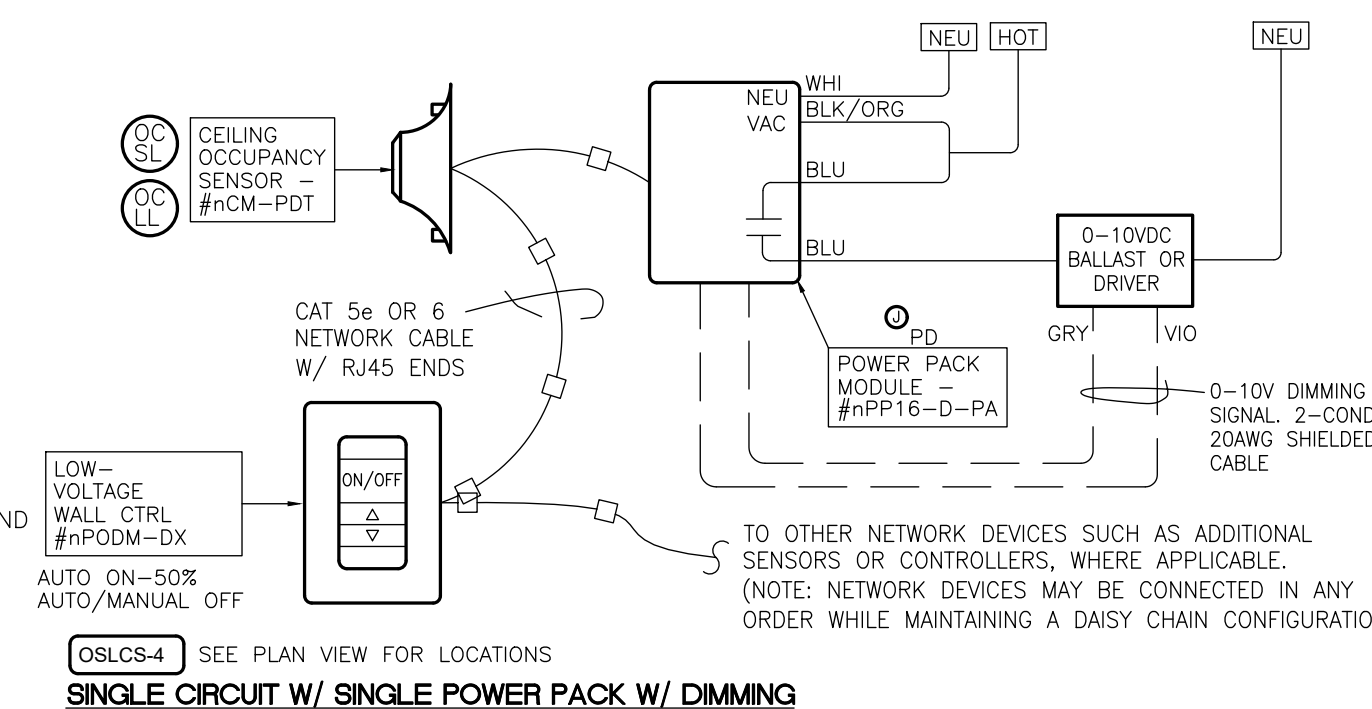
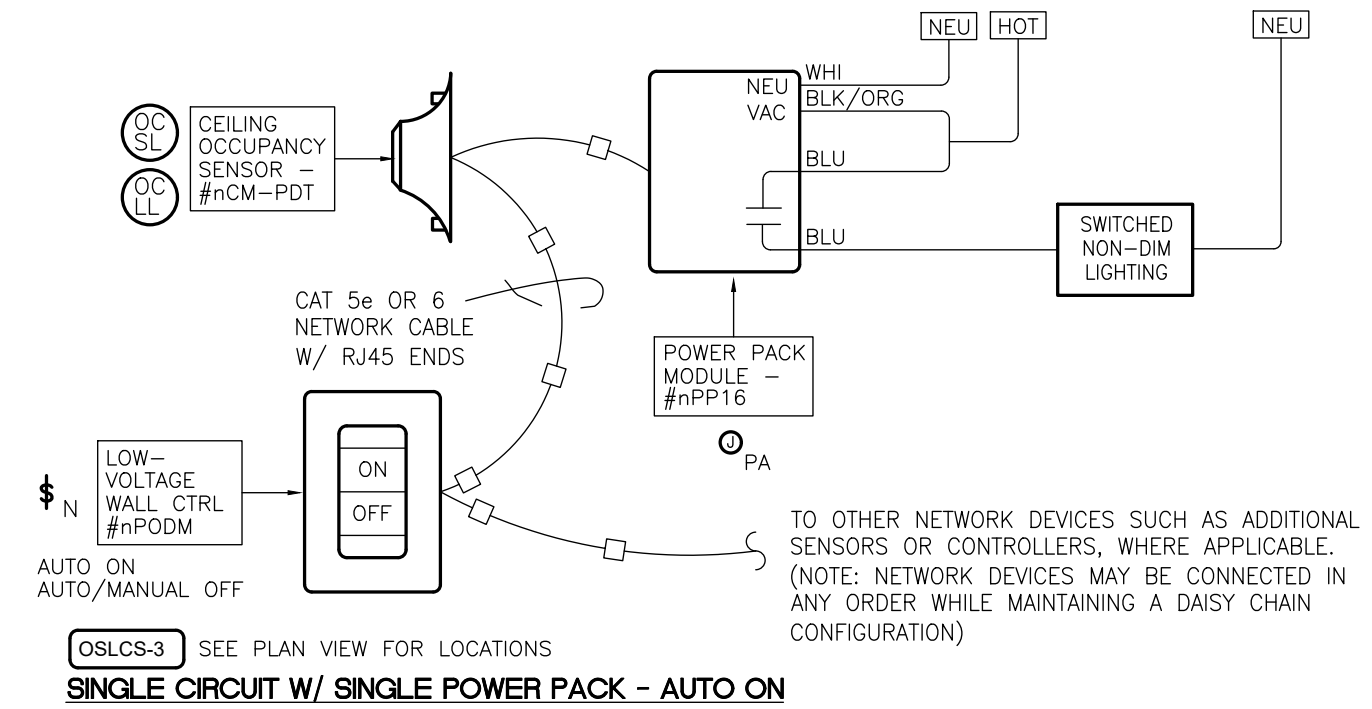
WALL MOUNTED VACANCY/OCCUPANCY SENSOR:  
VACANCY (VC) = SENSORSWITCH #WSXA-PDT-D-SA  
OCCUPANCY (OC) = SENSORSWITCH #WSXA-PDT-D  
OCCUPANCY TIME DELAY = 10 MINUTES MINIMUM



NOTE: DIAGRAMS ARE INTENDED TO DEPICT THE INTENDED CONTROL SCHEME FOR THE ROOM LIGHTING IN AREAS INDICATED ON THE LIGHTING PLANS - SEE ABOVE SCHEMATICS FOR SPEC NUMBERS, ETC. FURNISH AND INSTALL SENSORS, QUANTITIES AND OR POWER PACKS AS INDICATED ON PLAN VIEW AND AS REQUIRED BY NUMBER OF CIRCUITS OF LIGHTING WITHIN THE SPACE. PLACEMENT OF SENSORS SHALL BE BASED ON ROOM GEOMETRY AND SHALL PROVIDE 100% COVERAGE OF THE SPACE - FIELD COORDINATE WITH MANUF. RECOMMENDATIONS. ALL SYSTEM COMPONENTS SHALL BE WIRED PER THE MANUF. RECOMMENDATIONS. CONTRACTOR SHALL COORDINATE TIME AND SENSITIVITY SETTINGS OF EQUIPMENT WITH OWNER'S PREFERENCES. INFO ABOVE IS BASED ON SENSOR SWITCH AND LIGHT.

### LIGHTING CONTROL SCHEMATICS DIAGRAMS

NO SCALE:



**COLLIER**  
DW COLLIER ENGINEERING, INC.  
710 BROADWAY STREET SUITE 100  
SCOTTSDALE, ARIZONA 85257  
PH: (480) 478-2115  
WWW.DWCOLLIER.COM

CE PROJECT NO. 21-090



NEW SENIOR CENTER  
**CITY OF MAMMOTH SPRING**  
MAMMOTH SPRING, ARKANSAS


**COOPER MIXON**  
ARCHITECTS  
505 Union Street, 2nd fl. Jonesboro, AR 72401  
phone 870.336.0536 www.coopermixon.com

### CONSTRUCTION DOCUMENTS

PROJECT NO. 2114  
PROJECT NAME NEW SENIOR CENTER  
DATE 2021-7-9  
CONTENTS LIGHTING SCHEDULE & DETAILS  
SHEET NUMBER

**E-300**

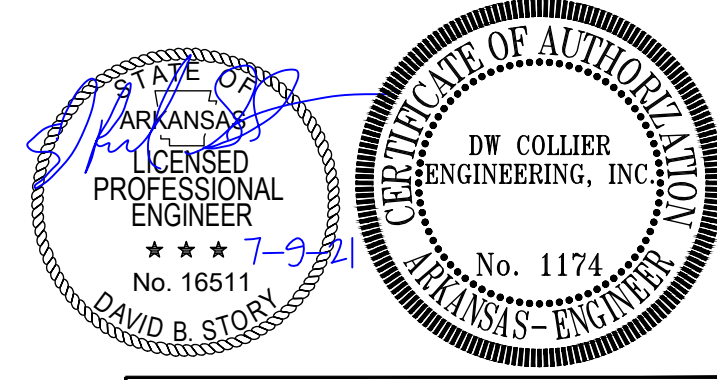


NEW SENIOR CENTER  
CITY OF MAMMOTH SPRING


COOPER MIXON ARCHITECTS  
505 Union Street, 2nd fl. Jonesboro, AR 72401  
phone 870.336.0536 www.coopermixon.com

CONSTRUCTION DOCUMENTS

PROJECT NO. 2114  
PROJECT NAME NEW SENIOR CENTER  
DATE 2021-7-9  
CONTENTS LIGHTING PLAN  
SHEET NUMBER E-301



COLLIER ENGINEERING, INC.  
733 BROADWAY STREET  
SUITE 100  
SOUTH FULTON, TN 38207  
PH (731) 478-2115  
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CE PROJECT NO. 21-090

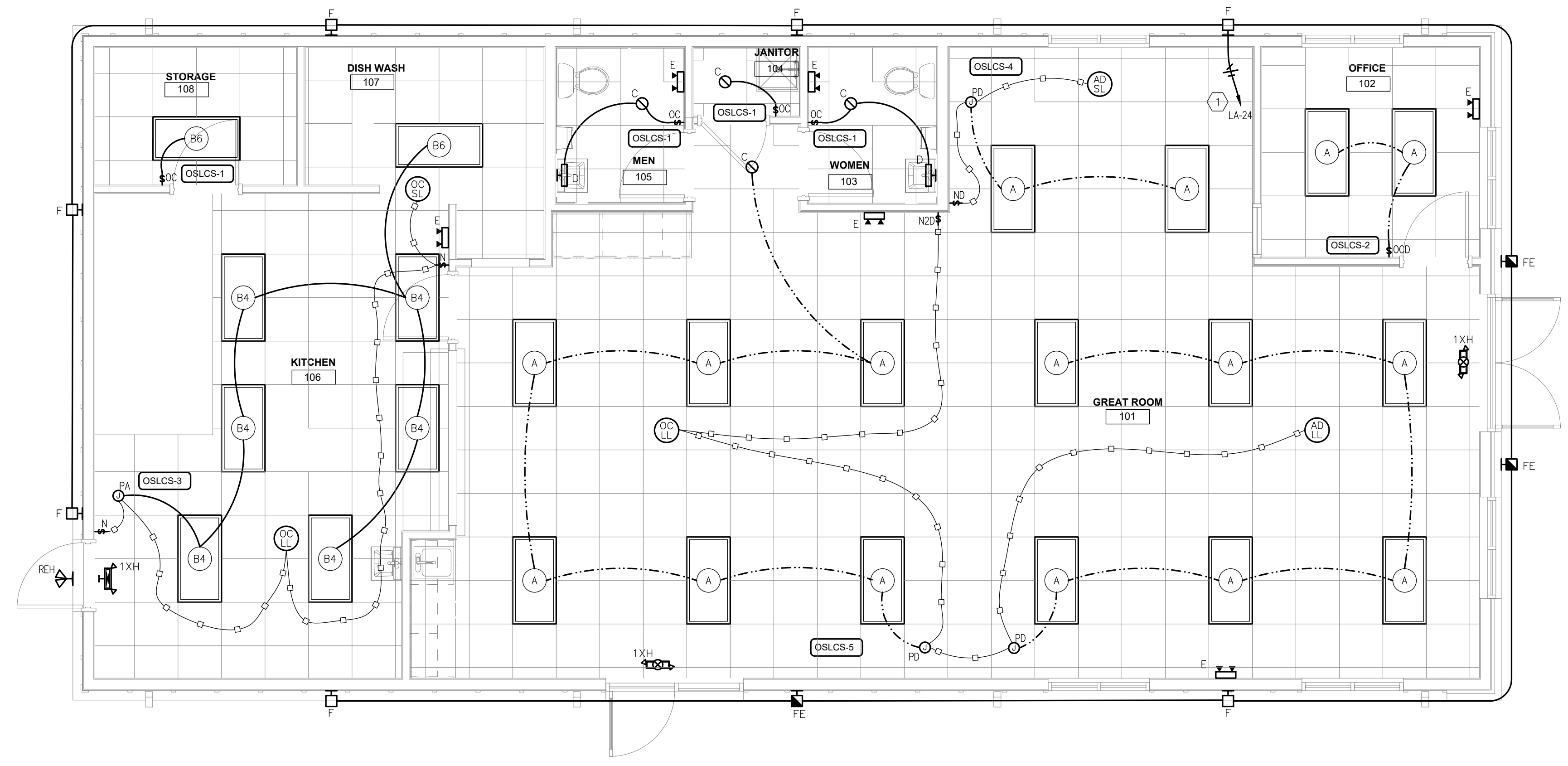
KEYED CONSTRUCTION NOTES:  
① LOOP CIRCUIT THRU PHOTOCELL. SEE DETAIL.

NOTE: CARRY UNSWITCHED CONDUCTOR FROM LIGHT CIRCUIT SERVING THE NORMAL LIGHTING IN A SPACE AS REQUIRED TO EXIT SIGNS AND EMERGENCY LIGHTS PER NEC 700.12(F).

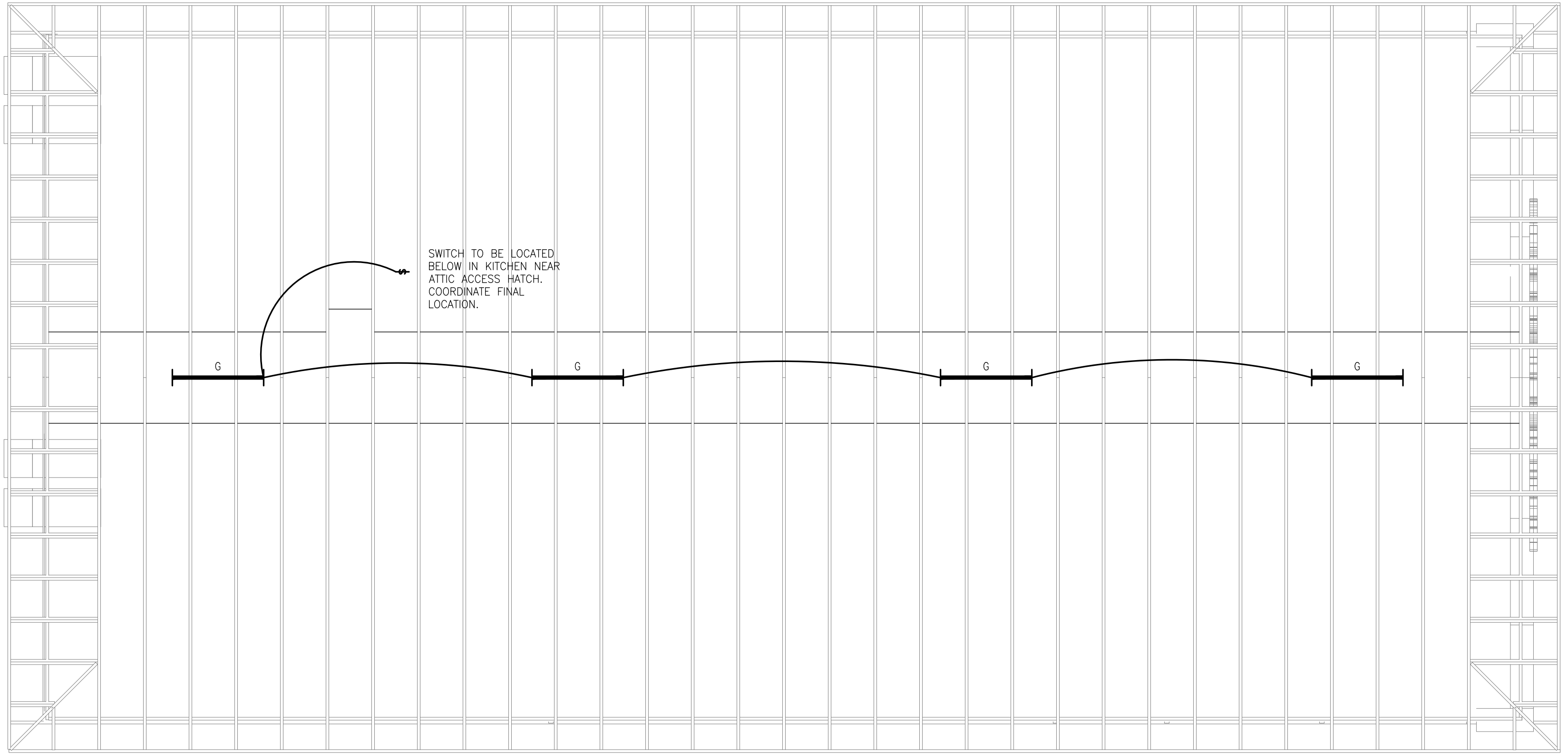
NOTE: THE OCCUPANCY SENSOR LAYOUT ON THESE PLANS IS AN APPROXIMATION TO SHOW MINIMUM DESIGN INTENT. THE CONTRACTOR SHALL COORDINATE WITH THE EQUIPMENT SUPPLIER TO ENSURE THAT THE OCCUPANCY SENSOR TYPE, QUANTITIES AND LOCATIONS INSTALLED WILL PROPERLY CONTROL LIGHTS IN ALL AREAS.

NOTE: PROVIDE THOROUGH ON SITE FACTORY TRAINING TO OWNER IN OPERATION, PROGRAMMING, SETUP AND MAINTENANCE OF EACH OCCUPANCY SENSOR DEVICE. PROVIDE DOCUMENTATION OF TRAINING SIGNED BY OWNER, TO ARCHITECT/ENGINEER PRIOR TO FINAL INSPECTION.

LIGHTING CIRCUITRY NOTE:  
ALL INTERIOR LIGHTING SHALL BE SERVED BY PANEL "LA" CIRCUIT #22.



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



LIGHTING PLAN - ATTIC  
1/4" = 1'-0"  
SCALE: 1/4" = 1'-0"

8/11/2021 10:16:22 AM



NEW SENIOR CENTER  
CITY OF MAMMOTH SPRING  
MAMMOTH SPRING, ARKANSAS


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CONSTRUCTION DOCUMENTS

PROJECT NO.  
2114

PROJECT NAME  
NEW SENIOR CENTER

DATE  
2021-7-9

CONTENTS

POWER PLAN

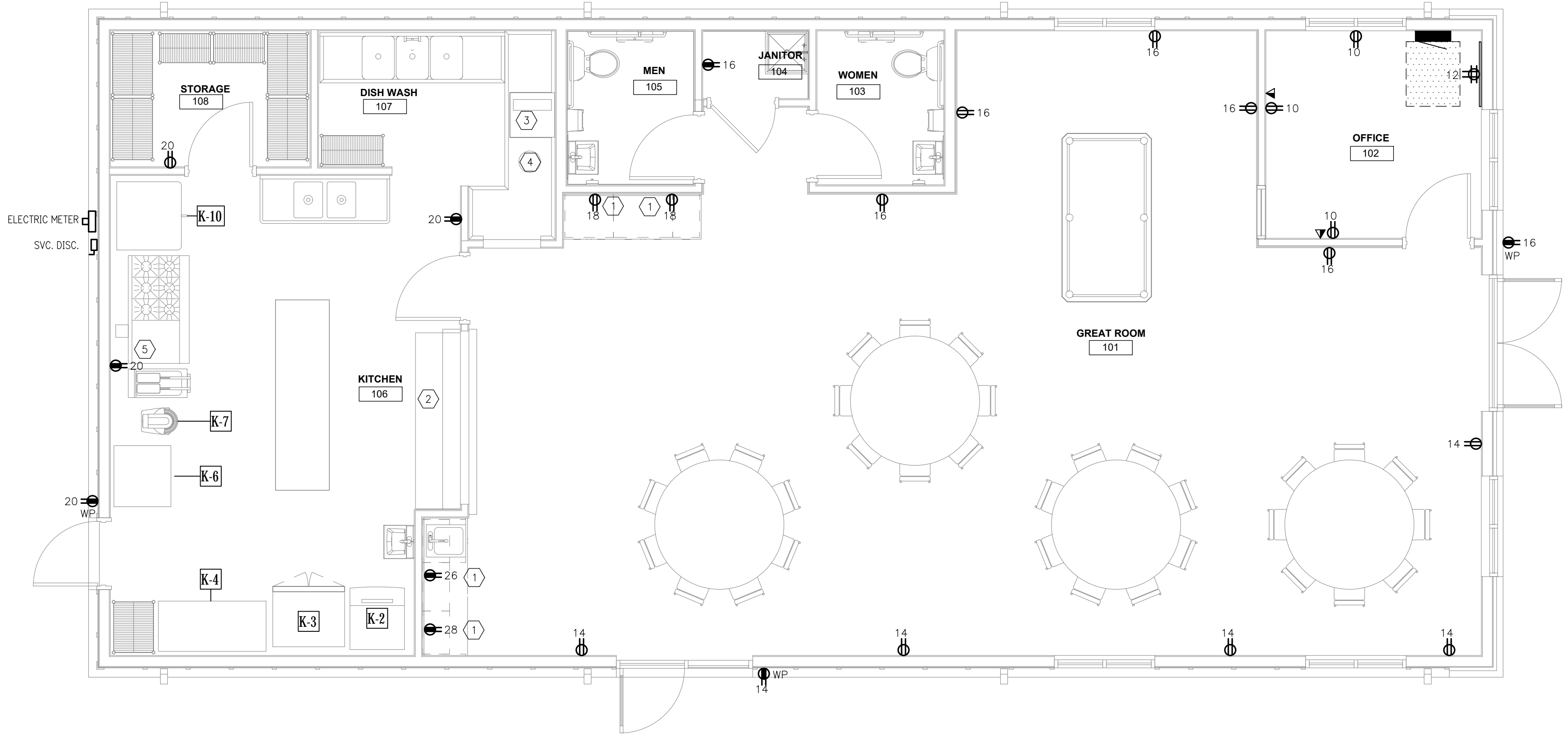
SHEET NUMBER

E-401

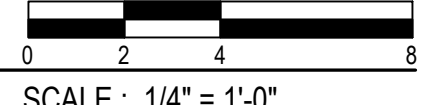
KEYED CONSTRUCTION NOTES:

- 1 MOUNT DEVICE ABOVE COUNTER
- 2 STEAM TABLE: ELECTRICAL REQ'S UNKNOWN AT DESIGN TIME. FOR BID PURPOSES, FIGURE 3 #12'S FROM PANEL TO EQUIPMENT AND A 20A,2P BREAKER. COORDINATE WITH EQUIPMENT PRIOR TO ROUGH-IN AND ADJUST CONDUIT & WIRE SIZES ACCORDINGLY.
- 3 DISHWASHER: ELECTRICAL REQ'S ARE 120V, 10A. FURNISH AND INSTALL 3 #12'S TO A 20A,1P BREAKER IN PANEL 'LA'.
- 4 GARBAGE DISPOSAL: FURNISH AND INSTALL 3 #12'S FROM A 20A,1P BREAKER IN PANEL 'LA' TO UNIT.
- 5 LOOP THIS DEVICE THRU KITCHEN HOOD SHUTDOWN CONTACTOR.

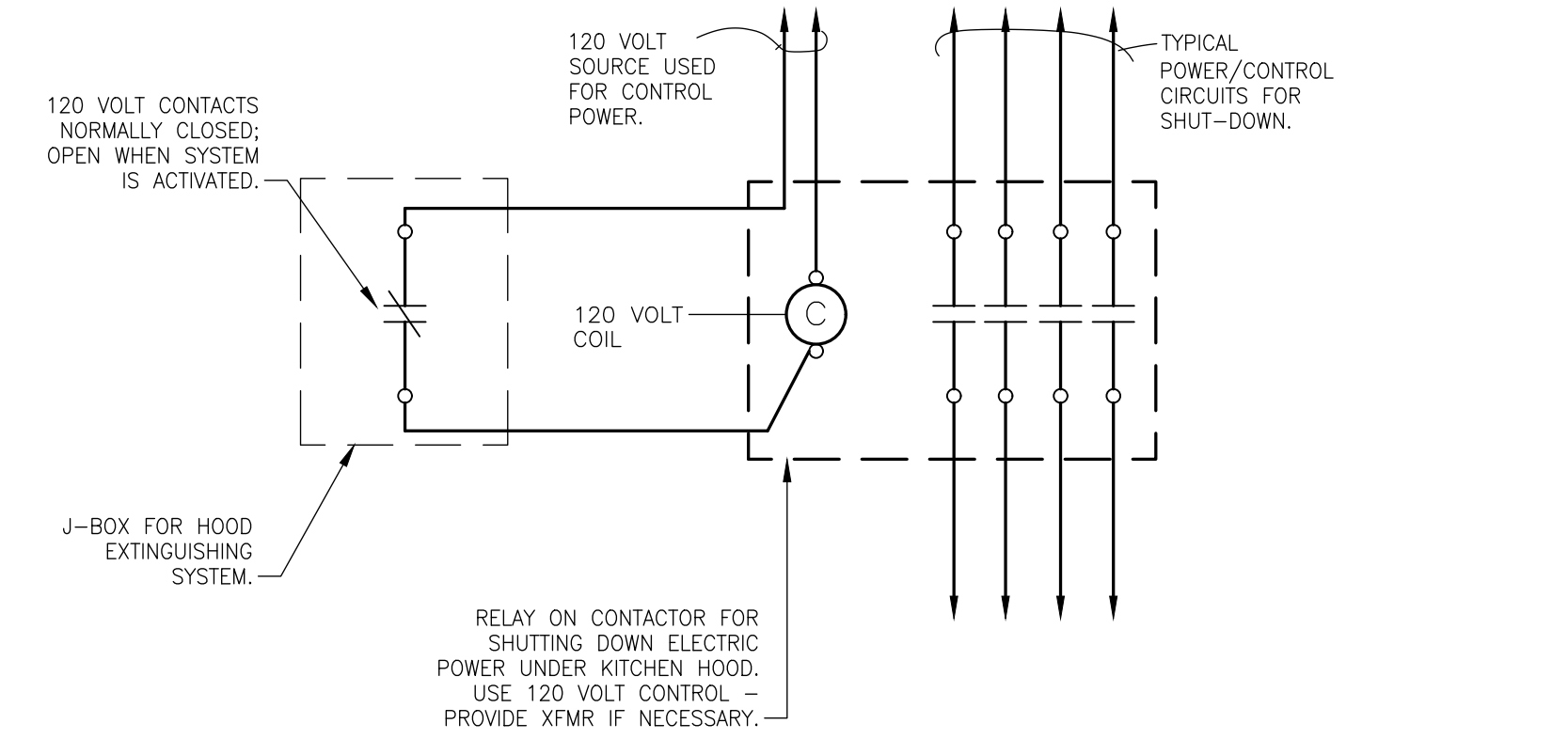
CIRCUITRY NOTE:  
ALL CIRCUITS SHOWN HERE SHALL BE SERVED BY PANEL 'LA'.



POWER PLAN  
1/4" = 1'-0"



NOTE:  
SEE MECHANICAL DRAWINGS FOR ADDITIONAL DETAILS REGARDING KITCHEN HOOD SEQUENCE OF OPERATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HOOD CONNECTIONS AND INTERLOCKS WITH EQUIPMENT.



KITCHEN HOOD EQUIPMENT SHUT-DOWN DIAGRAM  
NO SCALE

KITCHEN EQUIPMENT - ELECTRICAL SCHEDULE

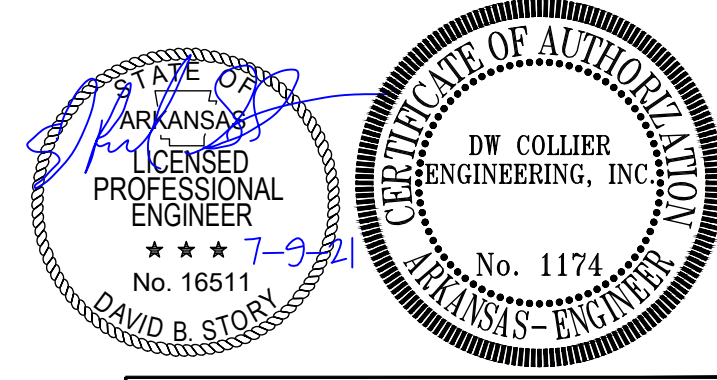
ITEM NO.	SERVICE LOAD	PANEL	'HACR' BKR SIZE	WIRE SIZE	DISCONNECT SWITCH	HEIGHT	DESCRIPTION	E. C. TO PROVIDE	
								RECEP.	DIRECT CONN.
K-2	8.6A - 120V-1Ø	'LA-11'	1P15A G.F.C.I.	3 #12	----	48"	ICE MAKER	●	SIMPLEX 5-20R
K-3	1/3HP, 5.6A - 120V-1Ø	'LA-13'	1P15A G.F.C.I.	3 #12	----	48"	DOUBLE DOOR REACH-IN REF.	●	SIMPLEX 5-20R
K-4	5A - 120V-1Ø	'LA-15'	1P15A G.F.C.I.	3 #12	----	48"	CHEST FREEZER	●	SIMPLEX 5-20R
K-6	1/3HP - 120V-1Ø	'LA-17'	1P15A G.F.C.I.	3 #12	----	48"	UPRIGHT FREEZER	●	SIMPLEX 5-20R
K-7	1/2HP - 120V-1Ø	'LA-19' (NOTE #1)	1P15A G.F.C.I.	3 #12	----	48"	MIXER	●	SIMPLEX 5-20R
K-10	3.5A - 120V-1Ø	'LA-21' (NOTE #1)	1P15A G.F.C.I.	3 #12	----	24"	GAS CONVECTION OVEN	●	SIMPLEX 5-20R

EQUIPMENT NOTES:

- 1. LOOP CIRCUIT THRU SHUTDOWN CONTACTOR. SEE DETAIL

GENERAL NOTES:

- \* SEE DRAWING FOR UNIT QUANTITIES AND LOCATION OF EQUIPMENT.
- \* FIELD COORDINATE EXACT RECEPTACLE CONFIGURATION WITH PLUG CONFIGURATION OF ALL CORD CONNECTED EQUIPMENT.
- \* COORDINATE BREAKER AND WIRE SIZE WITH ACTUAL EQUIPMENT SUPPLIED.
- \* VERIFY ACTUAL LOCATIONS OF KITCHEN EQUIPMENT WITH OWNER FOR FINAL LOCATIONS AND REQUIREMENTS.
- \* ALL G.F.C.I. CIRCUIT BREAKERS SHALL HAVE DEDICATED NEUTRAL CONDUCTORS.



COLLIER  
DW COLLIER ENGINEERING, INC.  
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NEW SENIOR CENTER  
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CONSTRUCTION DOCUMENTS

PROJECT NO. 2114

PROJECT NAME  
NEW SENIOR CENTER

DATE  
2021-7-9

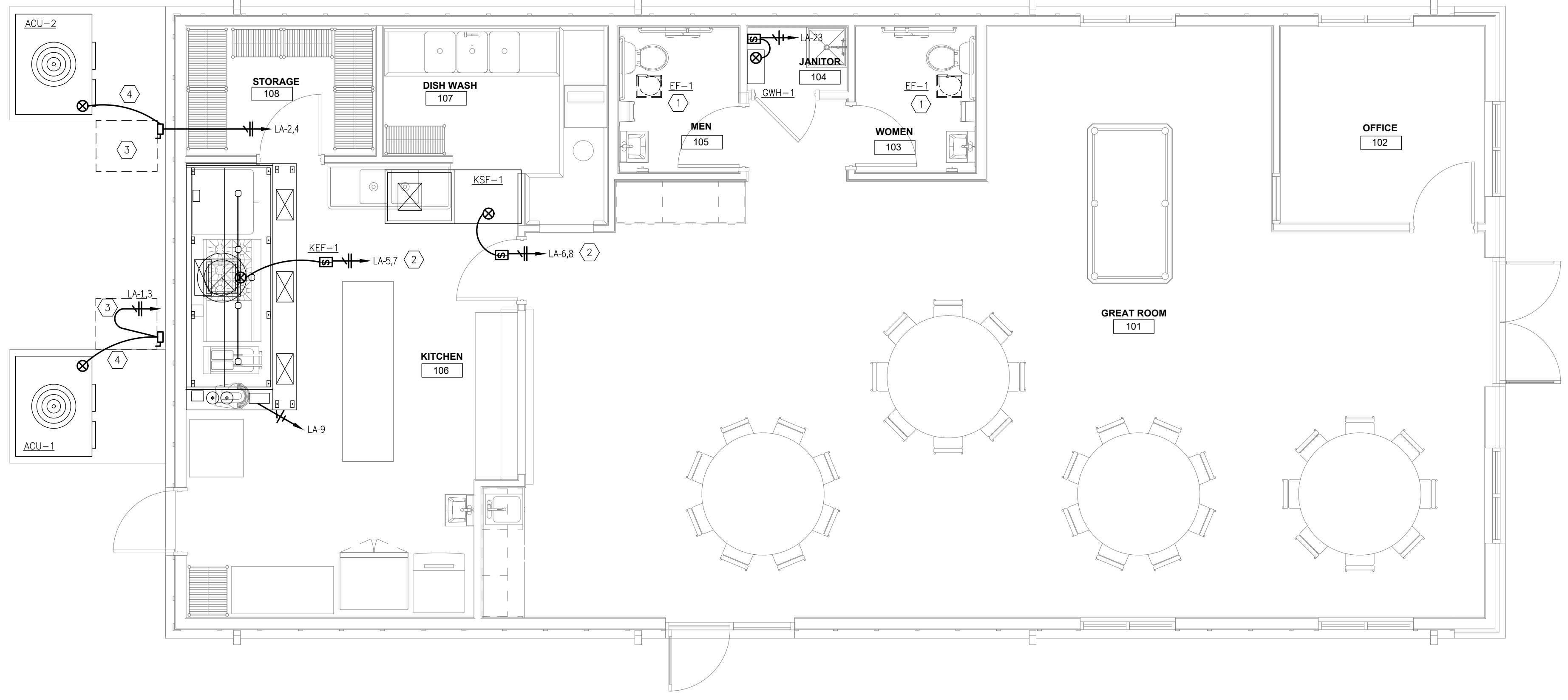
CONTENTS

MECHANICAL POWER PLAN

SHEET NUMBER

E-402

- KEYED CONSTRUCTION NOTES:
- CONNECT FAN TO SWITCHED LIGHTING CIRCUIT.
  - LOOP HOOD FANS THRU HOOD CONTROLLER. REFER TO HOOD CONTROL WIRING DIAGRAM FROM MANUFACTURER.
  - COORDINATE WITH EQUIPMENT INSTALLER FOR UNIT & DUCT LOCATIONS. LOCATE DISCONNECT SUCH THAT NEC 110.26 WORKING CLEARANCE IS MAINTAINED IN FRONT OF DISCONNECT.
  - EXTERIOR CONDUITS FROM DISC. TO UNIT SHALL BE PROPERLY SUPPORTED WITH UNISTRUT BETWEEN CONDUIT AND SURFACE. CONDUITS SHALL NOT COME IN DIRECT CONTACT WITH CONCRETE OR BUILDING FINISHES.

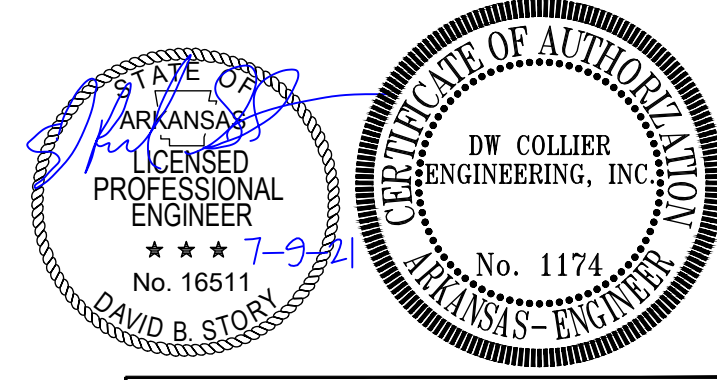


MECHANICAL POWER PLAN  
1/4" = 1'-0"  
SCALE: 1/4" = 1'-0"

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT DESIGNATION	VOLTAGE & PHASE	LOCATION	LOAD			HACR CIRCUIT BREAKER	LOCAL DISCONNECTING MEANS				STARTERS (PER UNIT)					CIRCUITRY				METHOD OF CONTROL	REMARKS
			kW	hp	MCA		N.F.D.S. SIZE	F.D.S. SIZE	FUSE SIZE	NEMA ENCL.	MAGNETIC (SIZE)	COMBINATION (SIZE)	MANUAL (SIZE)	MANUAL W/ NO O.L.	NEMA ENCL.	PANEL	CONDUIT SIZE MIN.	WIRE SIZE QTY& SIZE	GROUND QTY& SIZE		
ACU-1,2	240V/1Ø	EXT	--	--	39.1	2P60	2P60	--	--	3R	--	--	--	--	LA	3/4"	2 #4	1 #10	SEE MECH. SPEC	-----	
KEF-1	240V/1Ø	ROOF	--	3/4	--	2P15	--	--	--	--	--	--	2P20	--	3R	LA	1/2"	2 #12	1 #12	SEE MECH. SPEC	-----
KSF-1	240V/1Ø	ROOF	--	1/2	--	2P15	--	--	--	--	--	2P20	--	3R	LA	1/2"	2 #12	1 #12	SEE MECH. SPEC	-----	
EF-1	120V/1Ø	RR	.025	--	--	--	--	--	--	--	--	--	--	--	--	1/2"	2 #12	1 #12	SWITCH W/ LIGHTS	-----	

- REFER TO ELECTRICAL DRAWINGS AND BUSSING DIAGRAMS FOR UNIT QUANTITIES. REFER TO MECHANICAL DRAWINGS TO VERIFY QUANTITIES AND EXACT PLACEMENT. PLACEMENT OF ELECTRICAL DEVICES SERVING EQUIPMENT SHALL NOT INTERFERE WITH MANUFACTURER'S SERVICE CLEARANCES. MAINTAIN PROPER N.E.C. WORKING CLEARANCES FOR ELECTRICAL DEVICES INSTALLED ON OR NEAR UNIT.
- SEE TYPICAL CONNECTION DETAIL.
- FURNISH AND INSTALL A NEW WEATHERPROOF, 120V, 20A, G.F.C.I. DUPLEX RECEPTACLE MOUNTED ON SUITABLE SUPPORT NEAR UNIT. CONNECT TO NEAREST 120V GENERAL RECEPTACLE CIRCUIT, UNLESS OTHERWISE NOTED. VERIFY LOADING.
- FURNISH AND INSTALL ALL FIELD AND/OR INTERLOCK WIRING REQUIRED TO COMPLETELY CONNECT SYSTEM FOR FUNCTIONALITY.
- CONTRACTOR SHALL INSTALL ANY ELECTRICAL DEVICES THAT ARE SHIPPED LOOSE WITH EQUIPMENT, UNLESS OTHERWISE NOTED.
- COORDINATE WITH MECHANICAL CONTRACTOR FOR CONTROL WIRING REQUIREMENTS AND/OR CONDUITS THAT NEED TO BE FURNISHED AND INSTALLED BY A LICENSED ELECTRICIAN THAT ARE RELATED TO THIS SYSTEM.
- DUCT SMOKE DETECTORS SHALL BE TIED TO AND SUPERVISED BY THE FIRE ALARM SYSTEM. CONTRACTOR SHALL FURNISH AND INSTALL DUCT SMOKE DETECTORS. SEE DRAWINGS FOR LOCATIONS. COORDINATE WITH MECHANICAL CONTRACTOR.
- FOR RESTROOM/TOLET EXHAUST FANS THAT ARE CONNECTED TO SWITCHED LIGHTING CIRCUITS AND CONTROLLED BY OCCUPANCY SENSORS SHALL RUN FOR A MINIMUM OF TEN (10) MINUTES AFTER NO OCCUPANCY IS DETECTED. CONTRACTOR SHALL ADJUST OCCUPANCY SENSOR SETTINGS TO ACCOMPLISH THIS.



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