

ARCHITECTURAL ABBREVIATIONS

A.B.	ANCHOR BOLT	FD	FLOOR DRAIN	MFR	MANUFACTURER
A.C.T.	ACOUSTICAL TILE	FE	FIRE EXTINGUISHER	M.O.	MASONRY OPENING
A.C.L.	AIR CONTROL LAYER	FG	FIBERGLASS	M.R.	MOISTURE RESISTANT
ACC.	ACCESSIBLE	FH	FIRE HYDRANT	MAT.	MATERIAL
A.D.	AREA DRAIN	F.O.	FACE OF	MAX.	MAXIMUM
A.F.F.	ABOVE FINISHED FLOOR	F.O.F.	FACE OF FINISH	MECH.	MECHANICAL
A/C	AIR CONDITIONING	FIN.	FINISH(ED)	MEZZ.	MEZZANINE
ACOUS.	ACOUSTICAL	FIXT.	FIXTURE	MIN.	MINIMUM
ADJ.	ADJUSTABLE	FLR.	FLOOR	MISC.	MISCELLANEOUS
ALT.	ALTERNATE	FND.	FOUNDATION	MTL.	METAL
ALUM./AL	ALUMINUM	FR.	FRAME		
ANCH.	ANCHOR(AGE)	FT.	FOOT/FEET	N/A	NOT APPLICABLE
ANOD.	ANODIZED	FTG.	FOOTING	N.I.C.	NOT IN CONTRACT
A.P.	ACCESS PANEL	FUR.	FURRING	N.T.S.	NOT TO SCALE
APPROX.	APPROXIMATE	FURN.	FURNISHED/FURNITURE	NAT.	NATURAL
				NO.	NUMBER
				NOM.	NOMINAL
B.M.	BENCHMARK	G.W.B.	GYPSUM WALL BOARD	O.A.E.	OR APPROVED EQUAL
B.W.	BOTH WAYS	GA.	GAUGE	O.C.	ON CENTER
BD.	BOARD	GALV.	GALVANIZED	O.D.	OUTSIDE DIAMETER
BLDG.	BUILDING	GKT.	GASKET	OPNG.	OPENING
BLKG.	BLOCKING	GL.	GLASS	OPP.	OPPOSITE
BO	BY OTHERS	GYP.	GYPSUM		
BOT.	BOTTOM			PC	PRE-CAST
BSMT.	BASEMENT	H.B.	HOSE BIBB	PT	PRESSURE TREATED
		H.C.	HOLLOW CORE	PVC	POLYVINYL CHLORIDE
C.B.	CATCH BASIN	H.M.	HOLLOW METAL	PL	PLATE
C.I.	CAST IRON	HVAC	HEATING VENT. & AIR COND.	PLAM	PLASTIC LAMINATE
C.I.P.	CAST IN PLACE	H/C	HANDICAPPED	PLAS.	PLASTER
C.J.	CONTROL JOINT	HDWD.	HARDWOOD	PLG.	PLUMBING
C.M.U.	CONCRETE MASONRY UNIT	HDWR.	HARDWARE	PLYWD.	PLYWOOD
C.T.	CERAMIC TILE	HOR.	HORIZONTAL	PNL.	PANEL
CAB.	CABINET	HSS	HOLLOW STRUCTURAL SECTION	PREFAB.	PREFABRICATE(D)
C/L	CENTERLINE	HT.	HEIGHT	PTD.	PAINT(ED) (OR STAINED)
CLG.	CEILING	HWH	HOT WATER HEATER	PVMT.	PAVEMENT
CL.	CLOSET			Q.T.	QUARRY TILE
CLR.	CLEAR	I.D.	INSIDE DIAMETER	QTY.	QUANTITY
COL.	COLUMN	INCL.	INCLUDE(D) (-ING)		
CONC.	CONCRETE	INSUL.	INSULATE(D) (-ING)	R.	RADIUS/RISER
CONN.	CONNECTION	INT.	INTERIOR	R.B.	RUBBER BASE
COR.	CORRUGATED	INV.	INVERT	R.F.	RUBBER FLOORING
CPT.	CARPET	JC	JANITOR'S CLOSET	R.D.	ROOF DRAIN
CTR.	CENTER	JAN.	JANITOR	R.O.	ROUGH OPENING
		JST.	JOIST	REF.	REFERENCE
D.	DEPTH	JT.	JOINT	REINF.	REINFORCING
D.F.	DRINKING FOUNTAIN			REQ.	REQUIRED
D.H.	DOUBLE HUNG	L.	LENGTH	RM.	ROOM
D.O.	DOOR OPENING	LF	LINEAR FEET	S.S.	STAINLESS STEEL
DIA.	DIAMETER	L.L.	LIVE LOAD	SD	SOAP DISPENSER
DIAG.	DIAGONAL	L.L.H.	LONG LEG HORIZONTAL	STRUCT	STRUCTURAL
DIM.	DIMENSION	L.L.V.	LONG LEG VERTICAL	SQ. FT.	SQUARE FEET
DL.	DEAD LOAD	LAM.	LAMINATE		
DN.	DOWN	LAV.	LAVATORY	TB	THERMALLY BROKEN
DTL.	DETAIL	LOC.	LOCATE(D) (-ION)	TP	TOILET PARTITION
DWG.	DRAWING	LT.GA.	LIGHT GAUGE	TPD	TOILET PAPER DISPENSER
		LTC.	LIGHTING	TYP.	TYPICAL
E.J.	EXPANSION JOINT	LTL.	LINTEL	U.O.N.	UNLESS OTHERWISE NOTED
EA.	EACH	LVR.	LOUVER	V.C.L.	VAPOR CONTROL LAYER
ELEC.	ELECTRIC(AL)			V.I.F.	VERIFY IN FIELD
ELEV.	ELEVATION				
EP.	ELECTRICAL PANEL			WC	WASH CLOSET
EQ.	EQUAL			WRB	WEATHER RESISTIVE BARRIER
EQUIP.	EQUIPMENT			WS	WINDOW SHADE
EXP.	EXPOSED				
EXTG.	EXISTING				
EXT.	EXTERIOR				

DRAWING SYMBOLS

	INTERIOR ELEVATION REFERENCE		ELEVATION MARK
	BUILDING SECTION REFERENCE		FLOOR TRANSITION
	WALL SECTION REFERENCE		CENTERLINE
	DETAIL REFERENCE		BREAK LINE
	EXTERIOR ELEVATION REFERENCE		ASSEMBLY LEADER
	GRID BUBBLE		REVISION CLOUD & DELTA
	SPOT ELEVATION-PLAN		WALL TYPE DESIGNATION
	ROOM DESIGNATION		DOOR DESIGNATION
	NORTH ARROW		WINDOW DESIGNATION
			KEYNOTE REFERENCE
			FINISH REFERENCE
			ENLARGED DETAIL REFERENCE

SECTION DETAILS AND MATERIALS LEGEND

	WEATHER RESISTIVE BARRIER (WRB)/ DRAINAGE PLANE		STONE FILL
	VAPOR CONTROL LAYER (VCL)		EARTH
	AIR CONTROL LAYER (ACL)		CONCRETE
	UNDER SLAB VAPOR CONTROL LAYER		WOOD FINISH GRADE
	TAPE OR SELF ADHERING WATERPROOFING MEMBRANE (SAWM) AT EDGES/ JOINTS/ INTERSECTIONS		DIMENSIONAL LUMBER
	CLOSED CELL SPRAY FOAM INSULATION		BLOCKING
	RIGID FOAM INSULATION		PLYWOOD
	FILL INSULATION		
	RIGID MINERAL WOOL INSULATION		
	BATT INSULATION		



ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com

ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
802.989.7249

CIVIL ENGINEER
Nicholas Fiore, P.E.
Engineering Ventures
nikf@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER
Bob Neeld, P.E.
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER
Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvtllc.com
802.885.8091

ELECTRICAL ENGINEER
Claus Barstenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.barstenstein@esvtllc.com
802.885.8091

CONSTRUCTION MANAGER
Calvin Russell, Senior Project Manager
ReArch Company, Inc.
calvin@rearchcompany.com
802.863.8727



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Drawn: JG
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REVISIONS:

#	Date	Description
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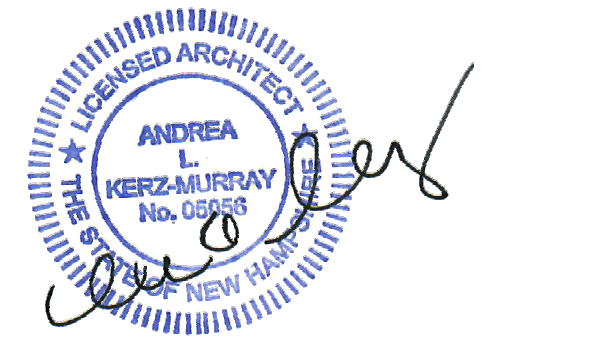
PERMIT SET 05/15/2023

KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

LEGEND &
ARCHITECTURAL
INFORMATION

A-0.1



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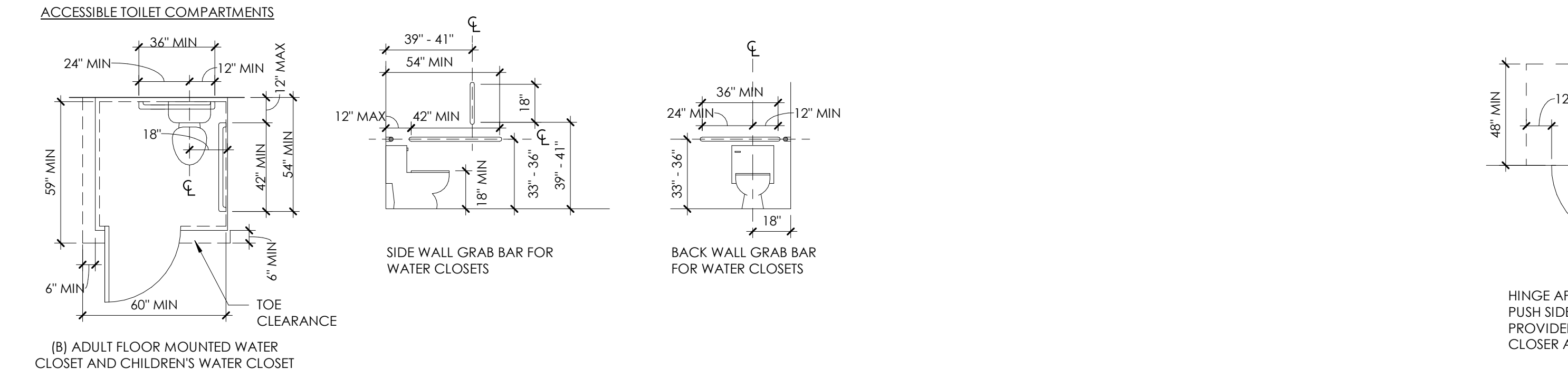
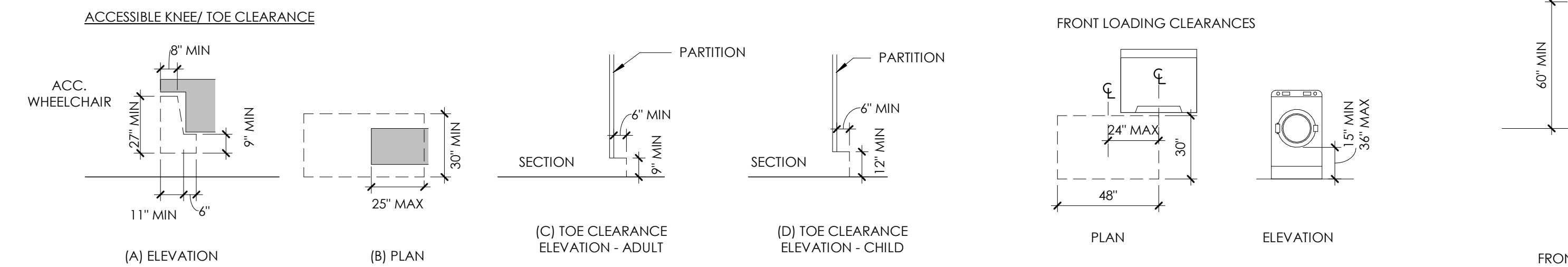
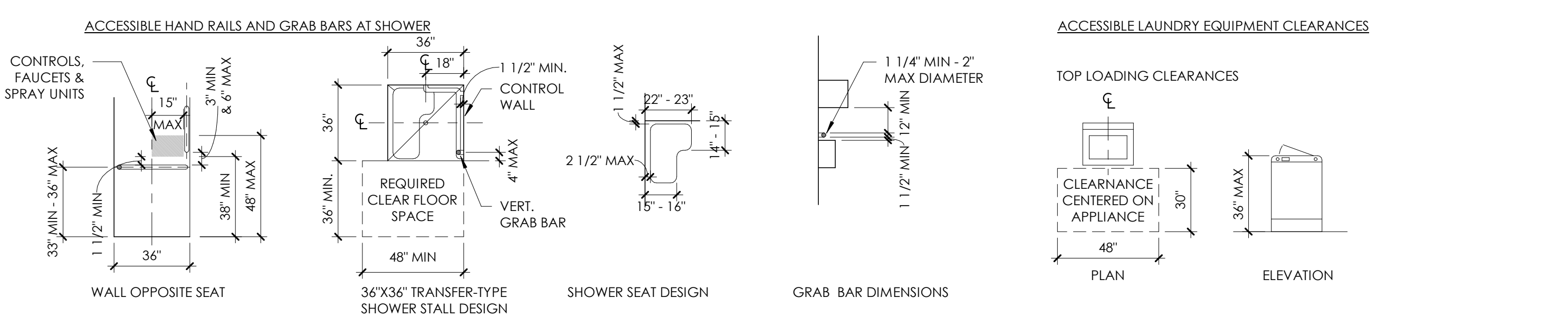
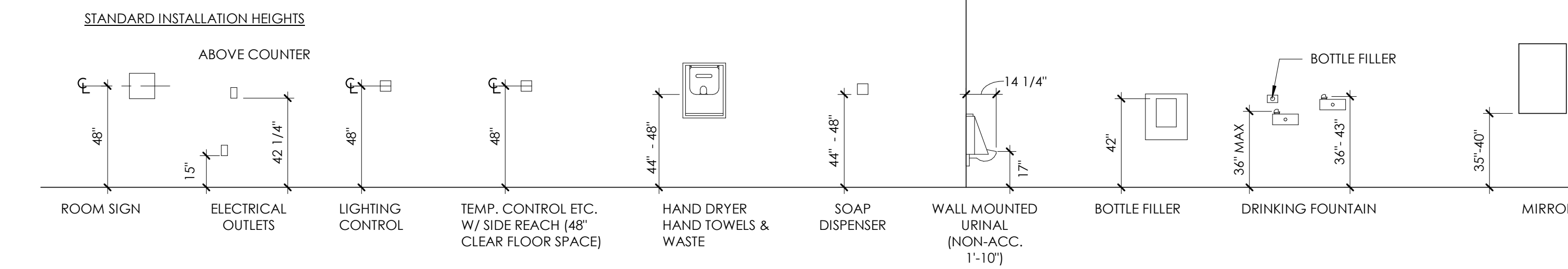
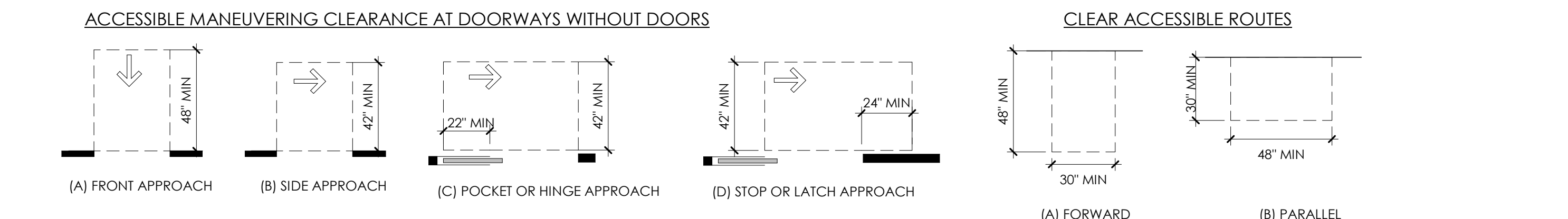
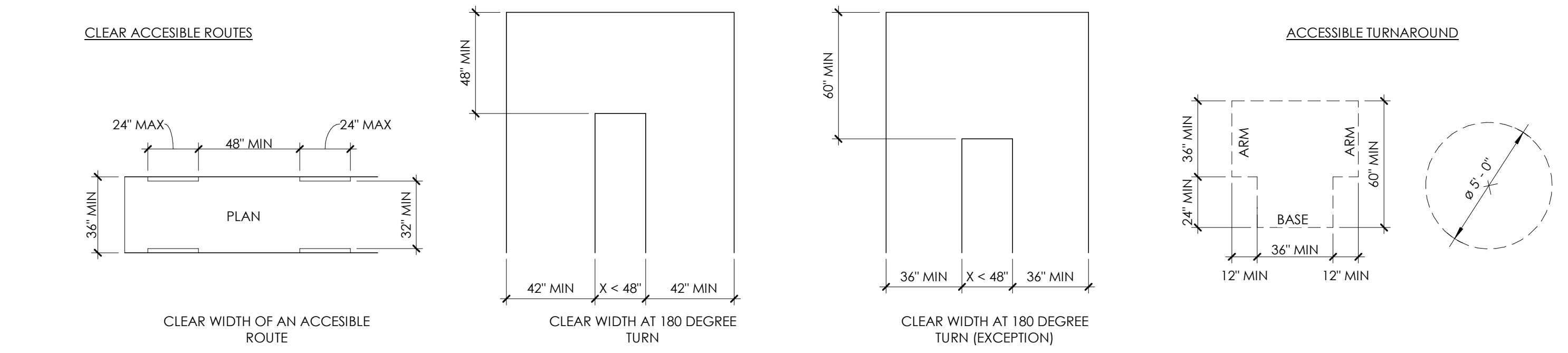
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**KUA
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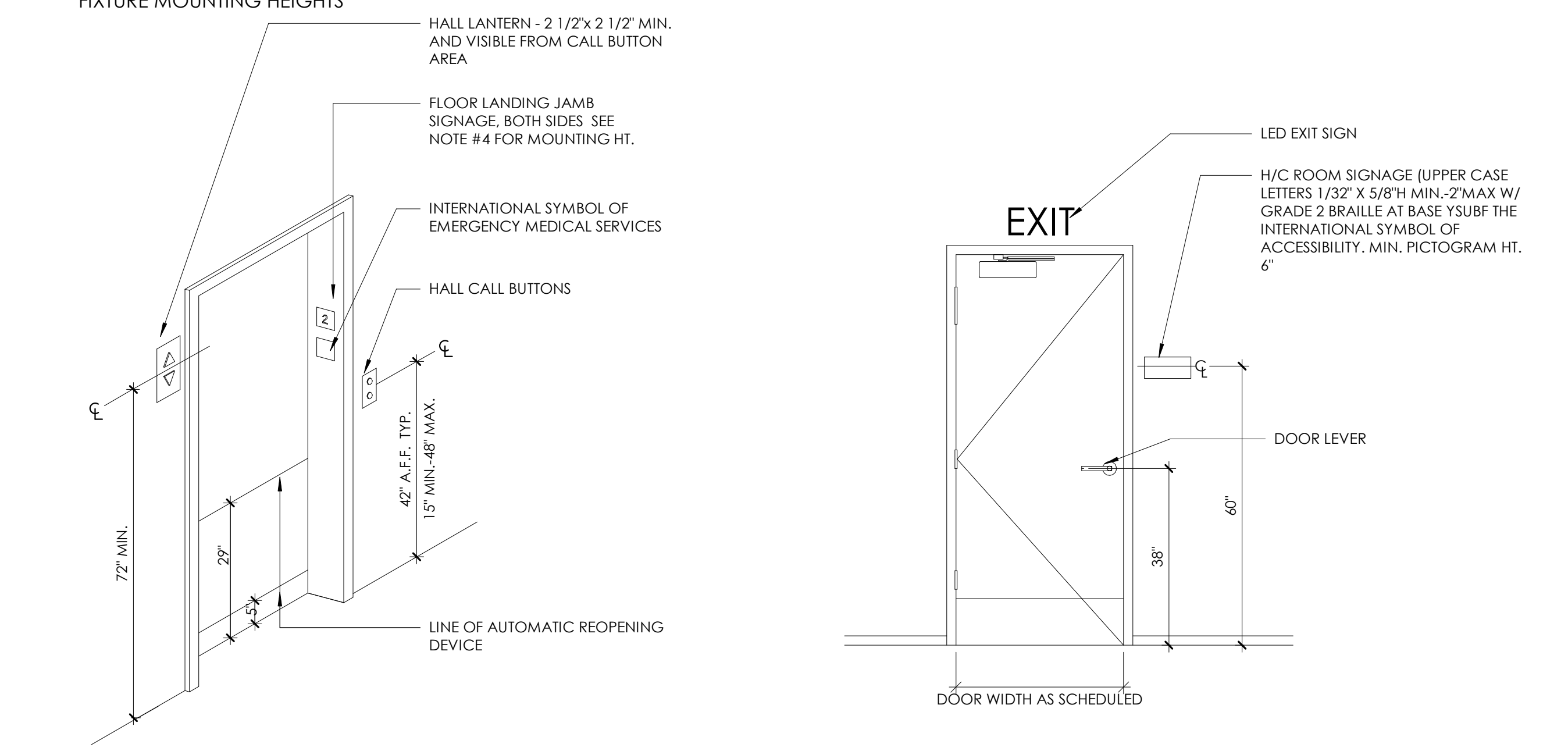
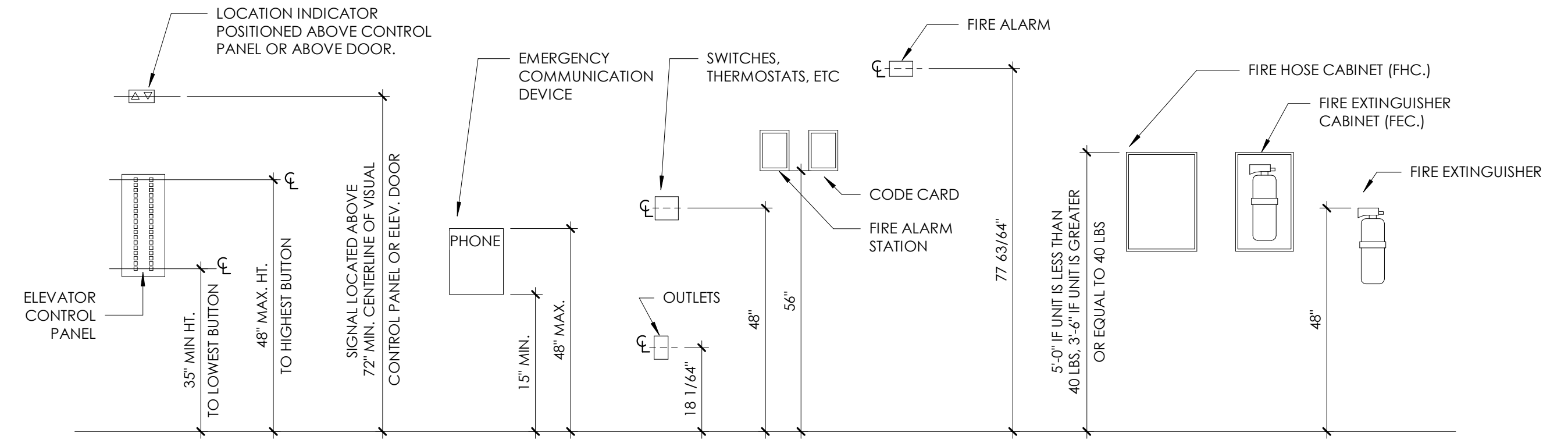
TYPICAL
ACCESSIBILITY
DETAILS

A-0.2

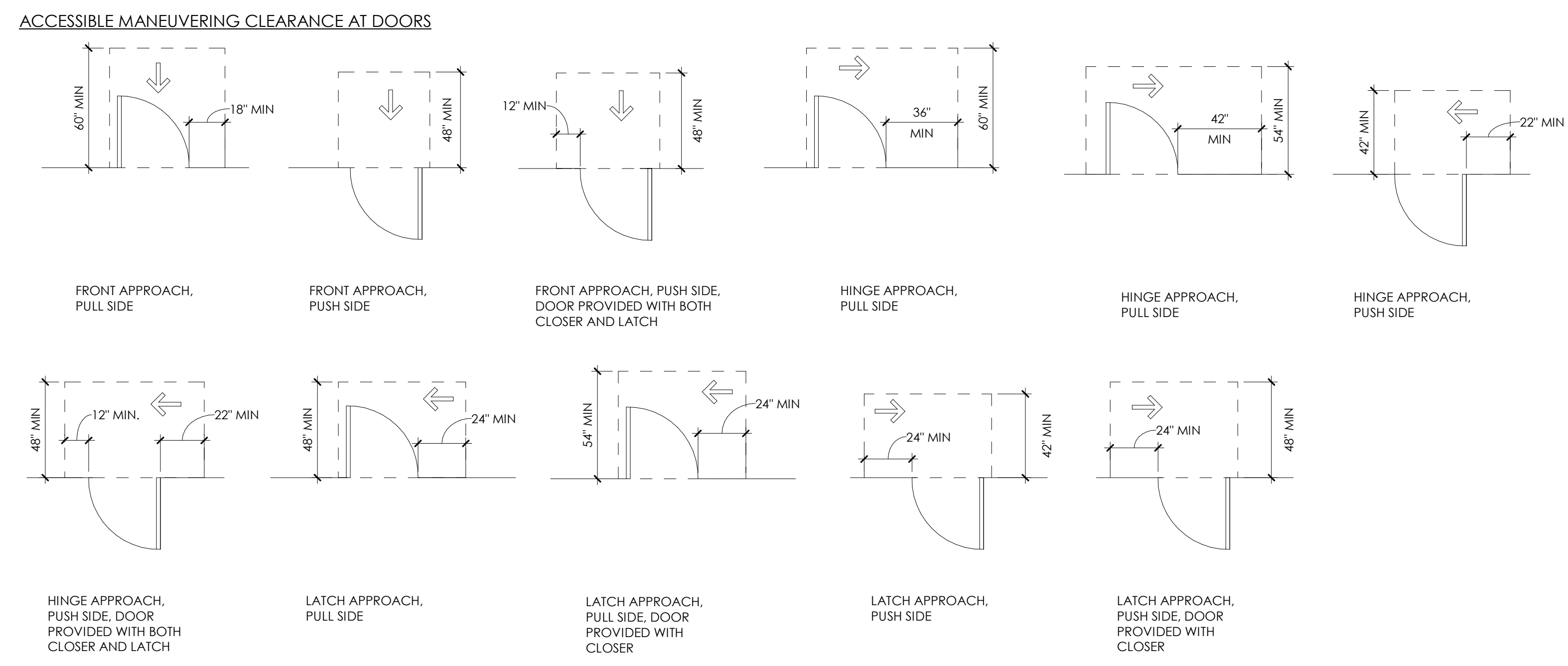
NOTE: WHEREVER POSSIBLE, WALL-MOUNTED DEVICES SHALL BE ALIGNED VERTICALLY AND HORIZONTALLY. IF UNSURE ABOUT ALIGNMENT, CONTRACTOR SHALL COORDINATE WITH ARCHITECT.



Accessible Use Standards
1/4" = 1'-0"



ACCESSIBLE ELEVATOR CONTROLS
SETOUT OF DOOR SIGNAGE
1/2" = 1'-0"



Accessible Doors and Clearances
1/4" = 1'-0"

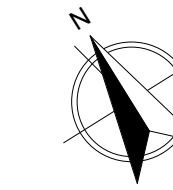
OCCUPANCY SCHEDULE		
Name	Area	Occupancy Load Factor
Basement- Dorms		
Residential R-3	840 SF	5 Occupants
Storage	3574 SF	12 Occupants

First Floor- Dorms		
Assembly A-3	1682 SF	113 Occupants
Dorm R-2	1923 SF	39 Occupants
Residential R-3	966 SF	5 Occupants
Residential R-3	1330 SF	7 Occupants

Second Floor		
Assembly A-3	529 SF	36 Occupants
Dorm R-2	2830 SF	57 Occupants
Residential R-3	1006 SF	6 Occupants
Residential R-3	1375 SF	7 Occupants

OCCUPANCY NOTES:
-FLOOR AREA ALLOWANCES PER OCCUPANT ARE PER IBC TABLE 1004.5:
 -ASSEMBLY A3 (UNCONCENTRATED) AS PER IBC 303.4: 15 SF NET/OCCUPANT
 -RESIDENTIAL R2 (DORMS) AS PER IBC 310.3: 50 SF GROSS/OCCUPANT
 -RESIDENTIAL R3 (RESIDENCE) AS PER IBC 310.4: 200 SF GROSS/OCCUPANT
 -ACCESSORY STORAGE AS PER IBC 311.1.1: 300 SF GROSS/OCCUPANT
 -LAUNDRY (INCIDENTAL) PER IBC 509.2, 509.3 AND TABLE 509.

GENERAL FIREPROTECTION NOTES:
 -ALL BUILDINGS IN THIS PROJECT (NEW FACULTY RESIDENCES, NEW DORMS, EXISTING DORMS AND EXISTING FACULTY RESIDENCES) WILL BE PROTECTED THROUGH-OUT WITH A NFPA 13 AUTOMATIC SPRINKLER SYSTEM (SEE SPECIFICATIONS SECTION 210000 FOR PERFORMANCE SPECIFICATIONS) AND WILL BE PROVIDED WITH A FIRE AND SMOKE ALARM SYSTEM - SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
 -THE EXTERIOR VENTED RANGE HOOD IN KITCHEN 120 SHALL BE EQUIPPED WITH AN APPROVED AUTOMATIC FIRE-EXTINGUISHING SYSTEM COMPLYING WITH IBC SECTION 904.13.1.1



FLOOR PLAN LEGEND	
[Solid Grey Box]	EXISTING WALL
[Dotted Grey Box]	EXISTING CONCRETE WALL
[Hatched Grey Box]	EXISTING MASONRY WALL
[Dark Grey Box]	NEW WALL/NEW WALL INFILL



ANDREA MURRAY, AIA, NCARB, LEED AP
 andrea@vermontintegratedarchitecture.com
 ASHAR NELSON, AIA, LEED AP
 ashar@vermontintegratedarchitecture.com

P.O. Box 862
 Middlebury, VT 05753
 802.989.7249

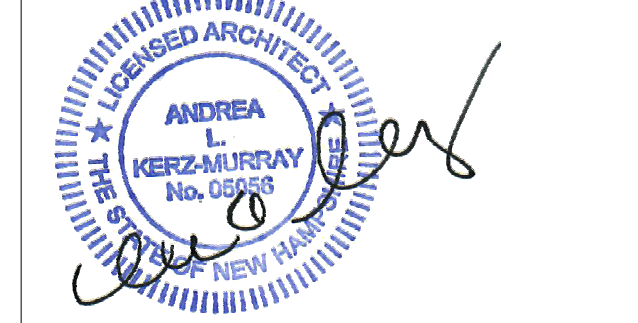
CIVIL ENGINEER
 Nicholas Fiore, P.E.
 Engineering Ventures
 nifi@engineeringventures.com
 802.863.6225

STRUCTURAL ENGINEER
 Bob Neeld, P.E.
 Engineering Ventures
 bobn@engineeringventures.com
 802.863.6225

MECH./PLUMBING ENGINEER
 Daniel Dupras, P.E.
 Engineering Services of Vermont, LLC
 daniel.dupras@esvtllc.com
 802.885.8091

ELECTRICAL ENGINEER
 Claus Barstenstein, P.E., LEED-AP
 Engineering Services of Vermont, LLC
 claus.barstenstein@esvtllc.com
 802.885.8091

CONSTRUCTION MANAGER
 Calvin Russell, Senior Project Manager
 ReArch Company, Inc.
 calvin@rearchcompany.com
 802.863.8727



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#	Date	Description
1	04/12/23	Addendum 1; Bid Set 1
2	05/15/23	Scope Changes to Bid Set #1

PERMIT SET 05/15/2023

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WELCH
 FIRE EGRESS PLAN

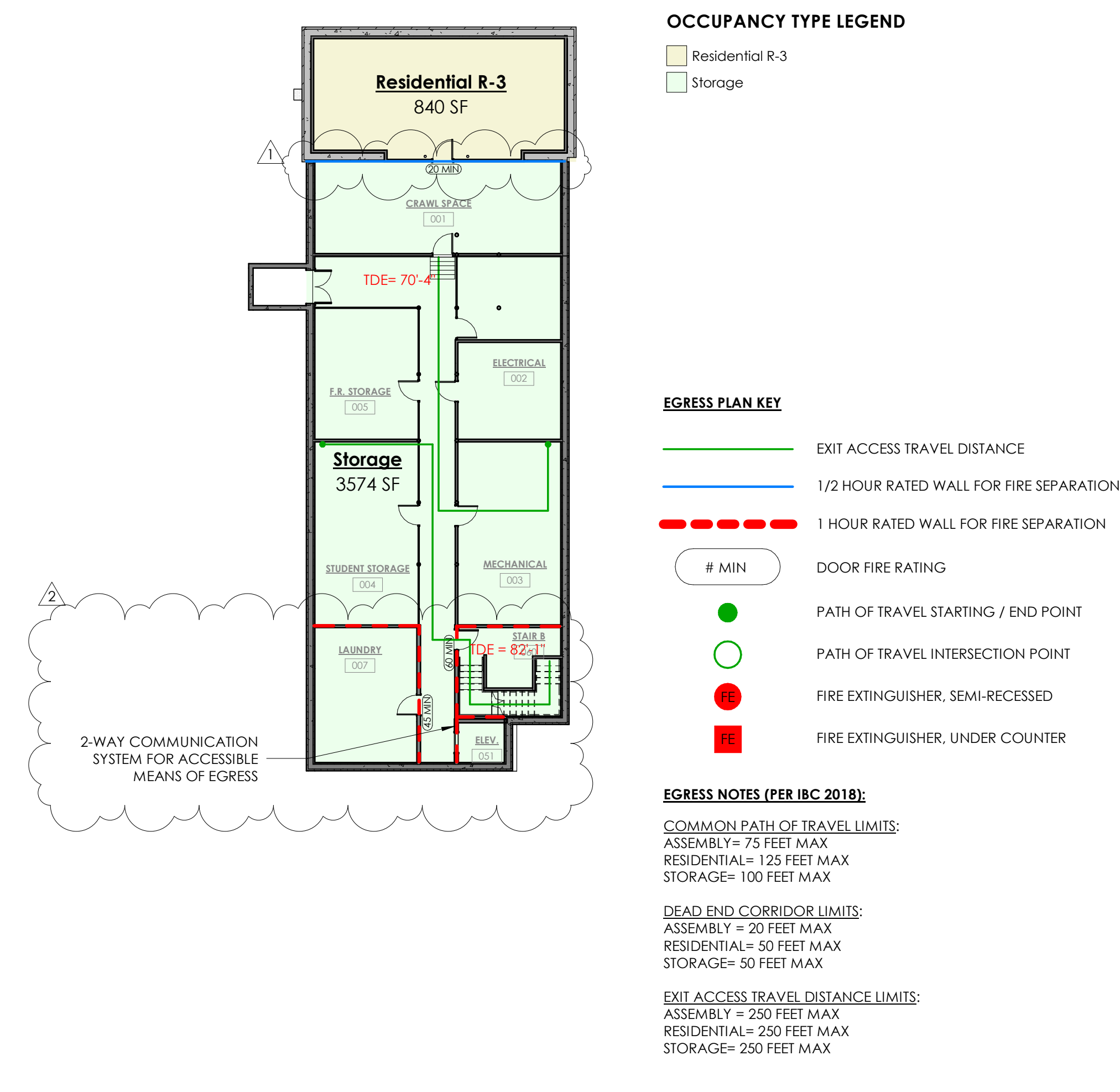
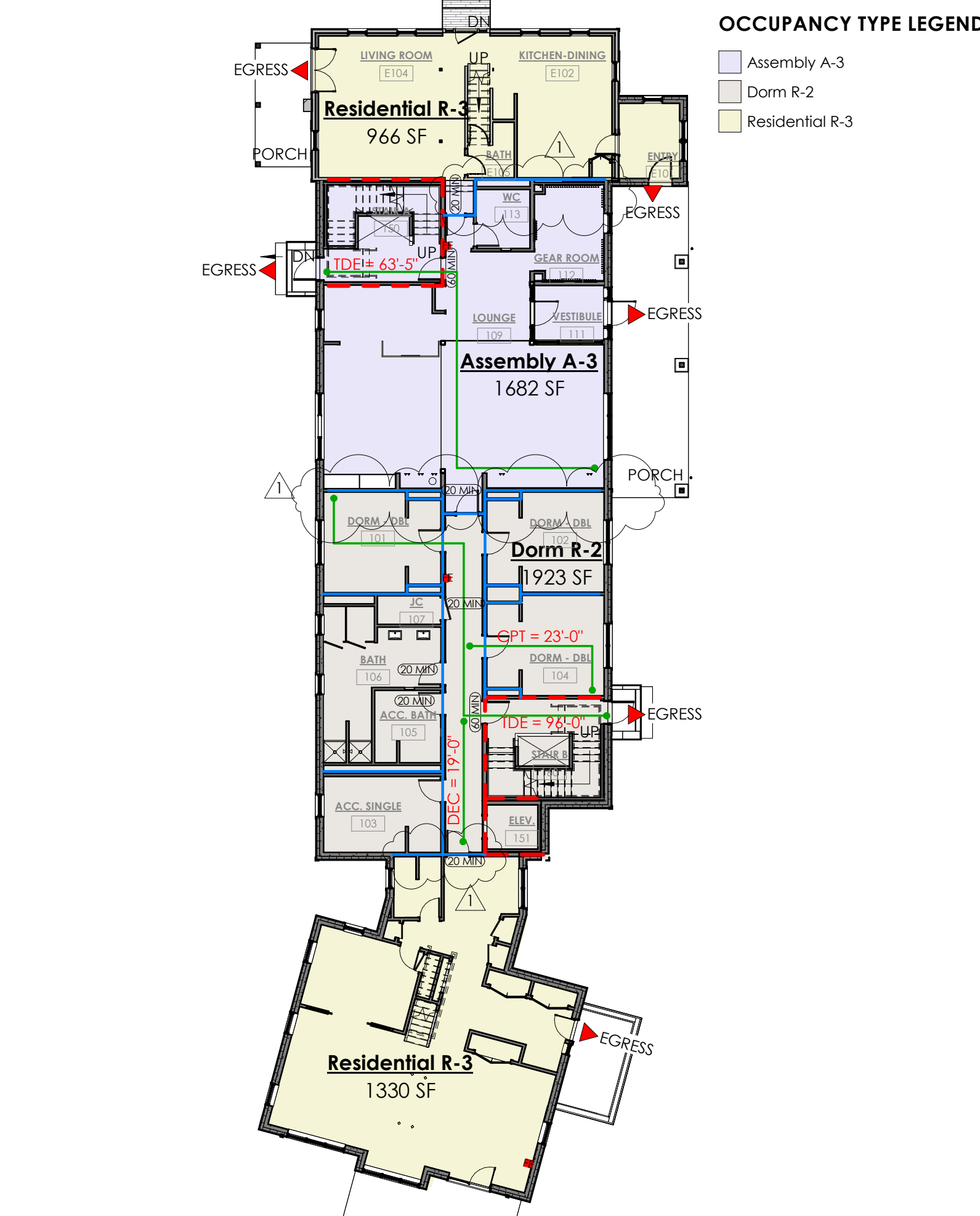
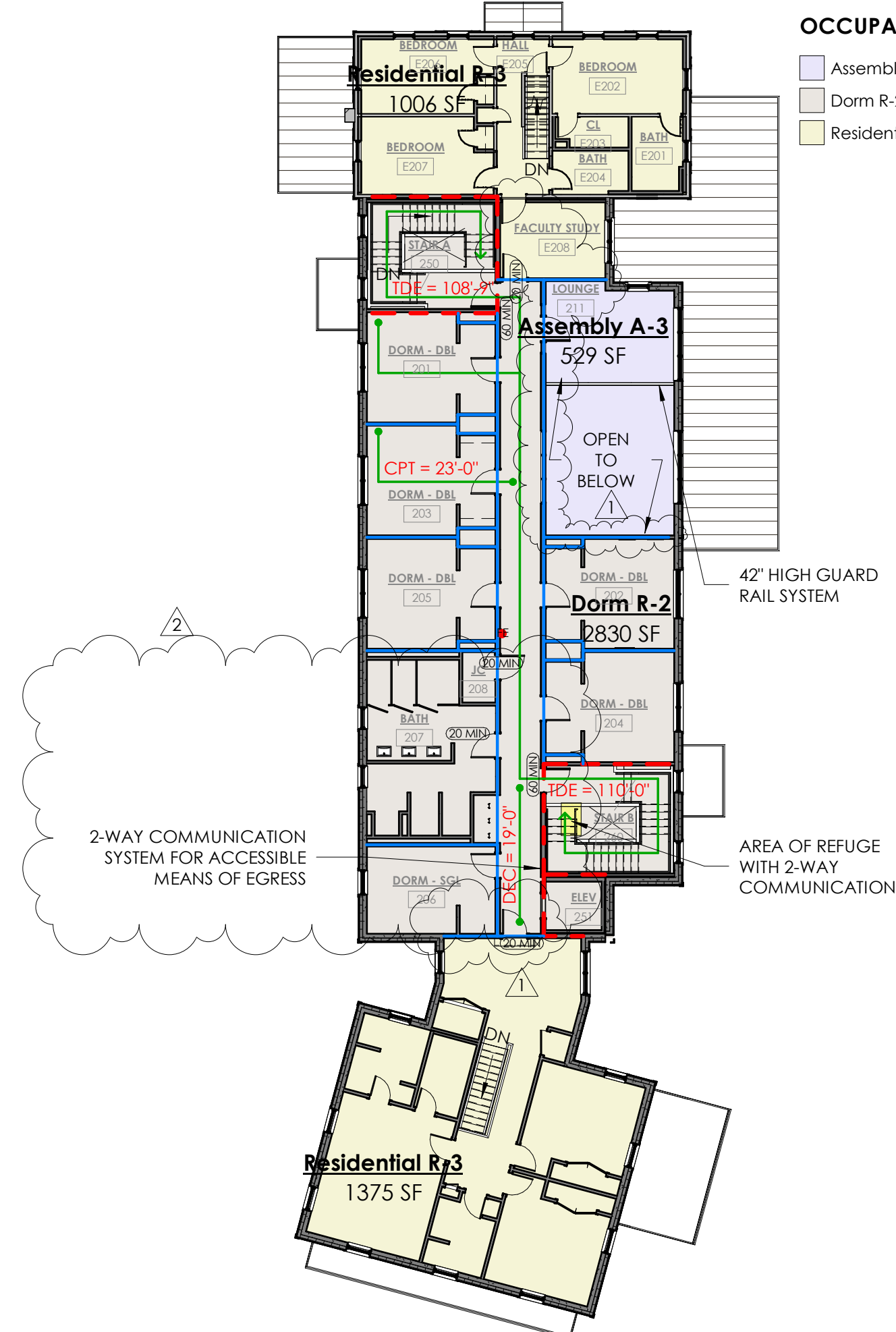
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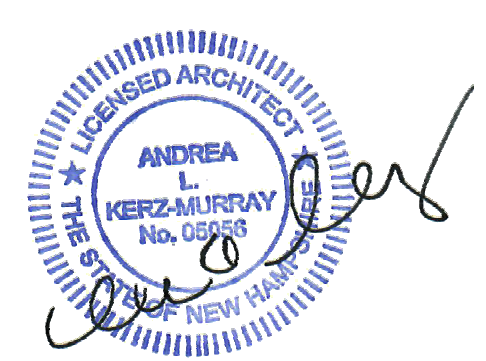
PROGRAM SCHEDULE - TOTAL	
WELCH DORM:	
TOTAL NET SQUARE FOOTAGE:	6,591 SF
TOTAL GROSS SQUARE FOOTAGE:	10,320 SF
NET / GROSS SF RATIO	.64
NUMBER OF DORM BEDS	19 BEDS
WELCH FACULTY RESIDENCE: 4,040 SF	
EXISTING FACULTY RESIDENCE: 2,704 SF	

PROGRAM SCHEDULE - SECOND FLOOR	
WELCH DORM:	
COMMON AREAS:	158 SF
(5) DORM DOUBLES:	1,035 SF
(1) DORM SINGLES:	152 SF
(1) DORM BATHROOM:	301 SF
TOTAL NET SQUARE FOOTAGE:	1,646 SF
TOTAL GROSS SQUARE FOOTAGE:	3,312 SF
NET / GROSS SF RATIO	.50
NUMBER OF DORM BEDS	11 BEDS
WELCH FACULTY RESIDENCE: 1,338 SF	
EXISTING FACULTY RESIDENCE: 1,000 SF	

PROGRAM SCHEDULE - FIRST FLOOR	
WELCH DORM:	
COMMON AREAS:	1,153 SF
(0) DORM SINGLES:	0 SF
(4) DORM DOUBLES:	880 SF
(3) DORM BATHROOM:	272 SF
TOTAL NET SQUARE FOOTAGE:	2,305 SF
TOTAL GROSS SQUARE FOOTAGE:	3,539 SF
NET / GROSS SF RATIO	.65
NUMBER OF DORM BEDS	8 BEDS
WELCH FACULTY RESIDENCE 1: 1,359 SF	
EXISTING FACULTY RESIDENCE: 864 SF	

PROGRAM SCHEDULE - BASEMENT	
WELCH DORM:	
COMMON SPACES	307 SF
STORAGE/MECHANICAL	2,333 SF
TOTAL NET SQUARE FOOTAGE:	2,640 SF
TOTAL GROSS SQUARE FOOTAGE:	3,469 SF
NET / GROSS SF RATIO	.76
WELCH FACULTY RESIDENCE GROSS: 1,343 SF	
WELCH EXISTING BASEMENT GROSS: 840 SF	





#	Date	Description
2	05/15/23	Scope Changes to Bid Set #1

PERMIT SET 05/15/2023

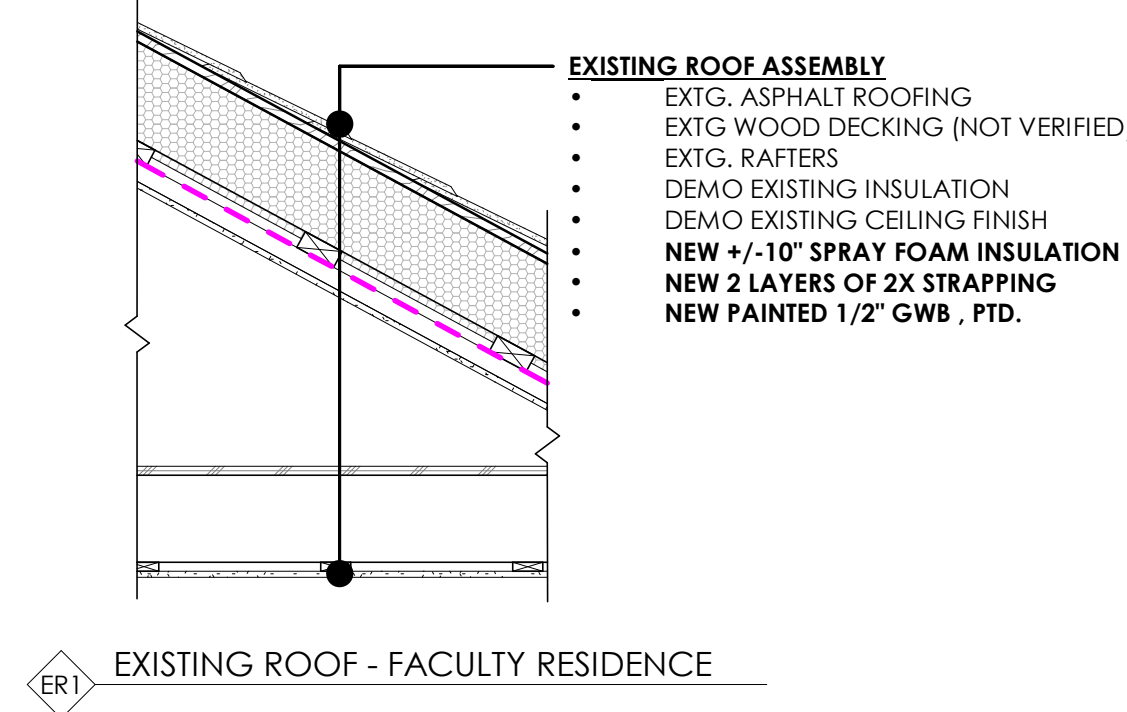
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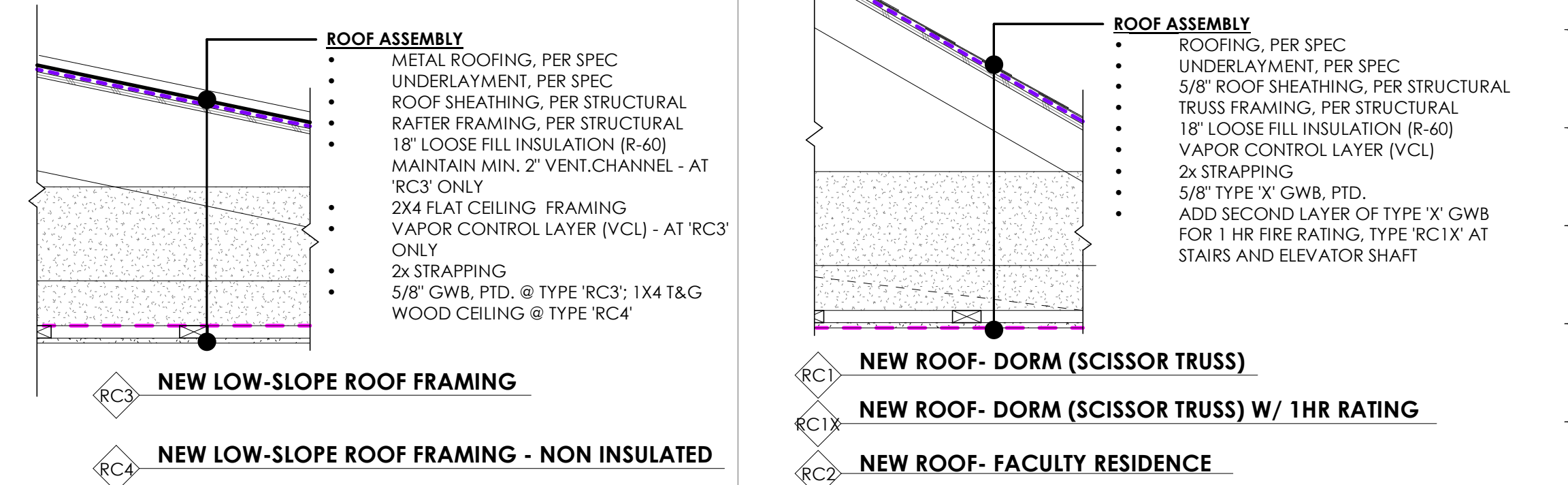
WELCH
ASSEMBLY TYPES

AW-0.5

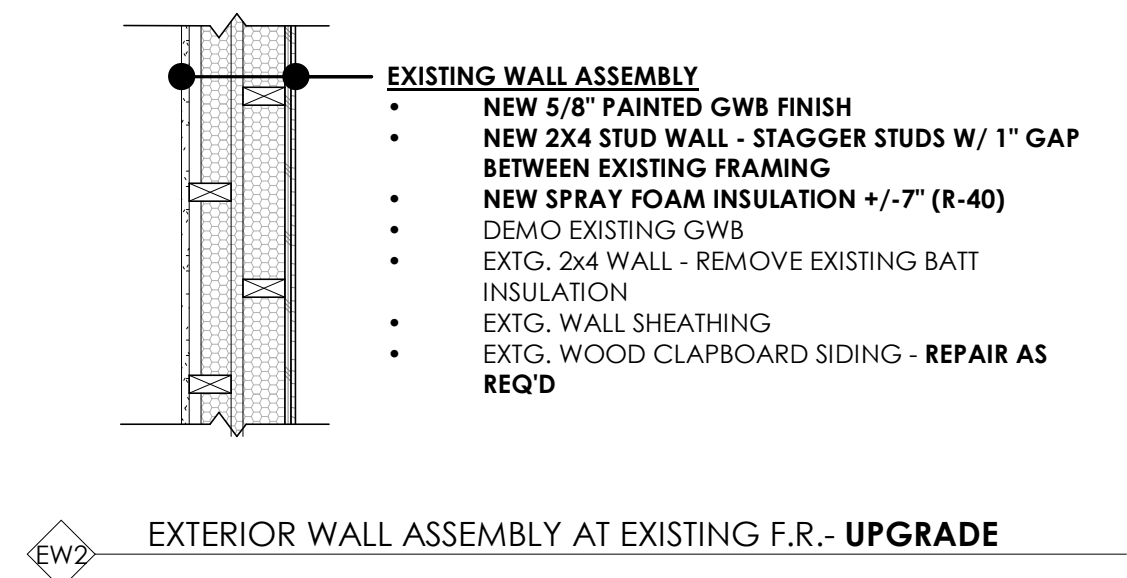
EXISTING ROOF ASSEMBLIES



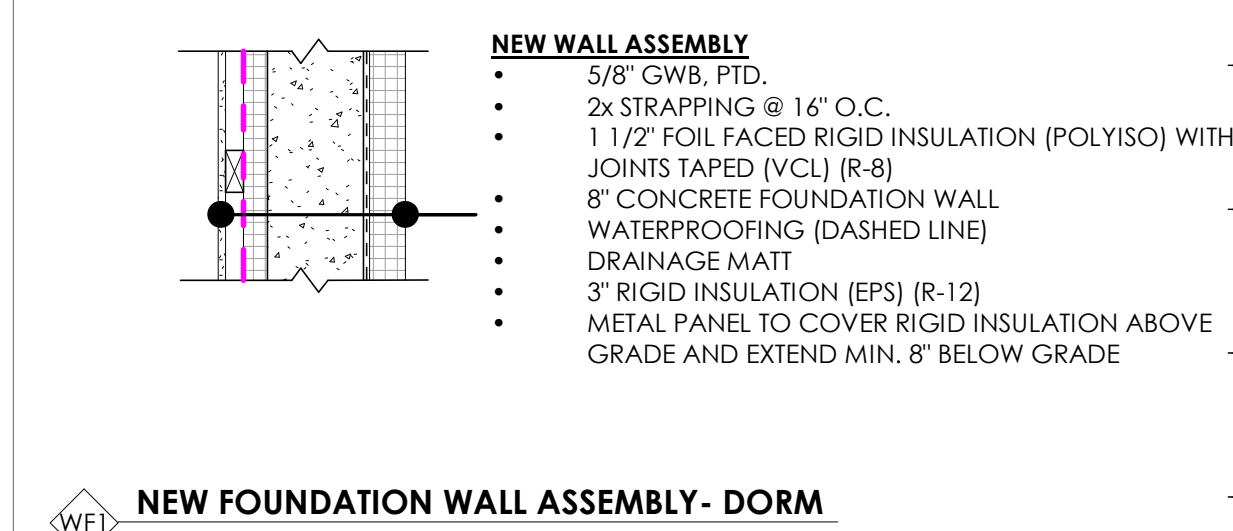
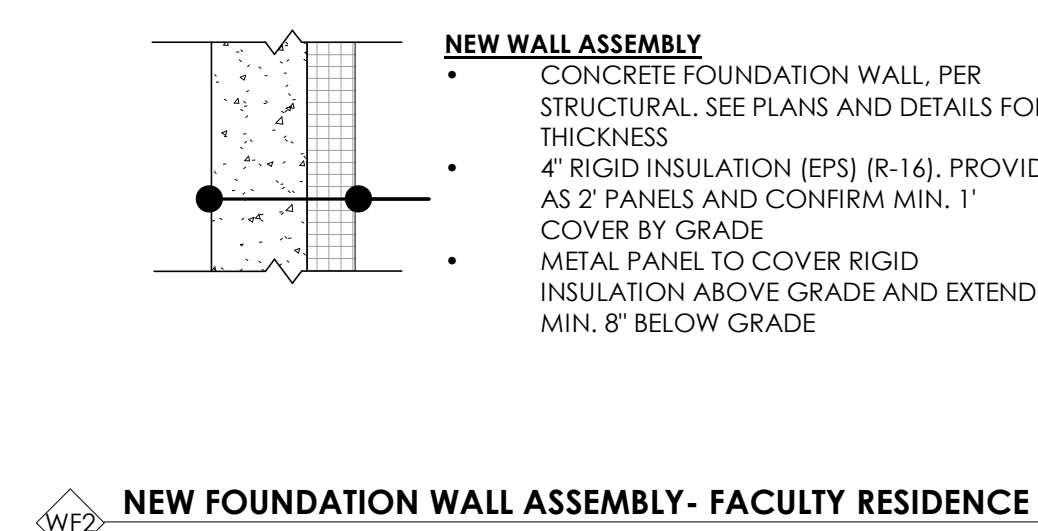
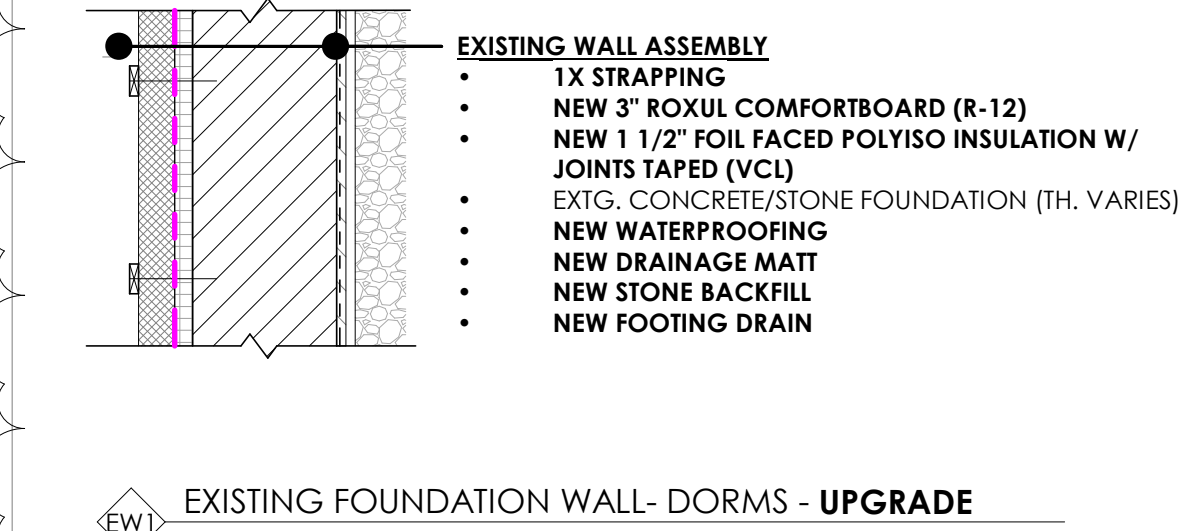
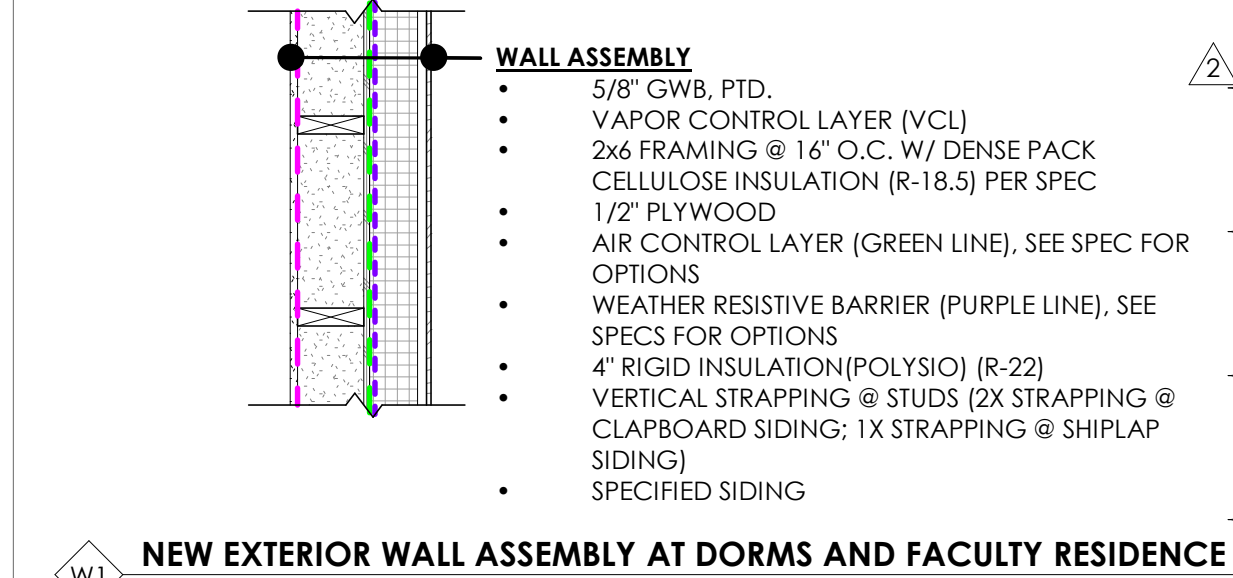
NEW ROOF ASSEMBLIES



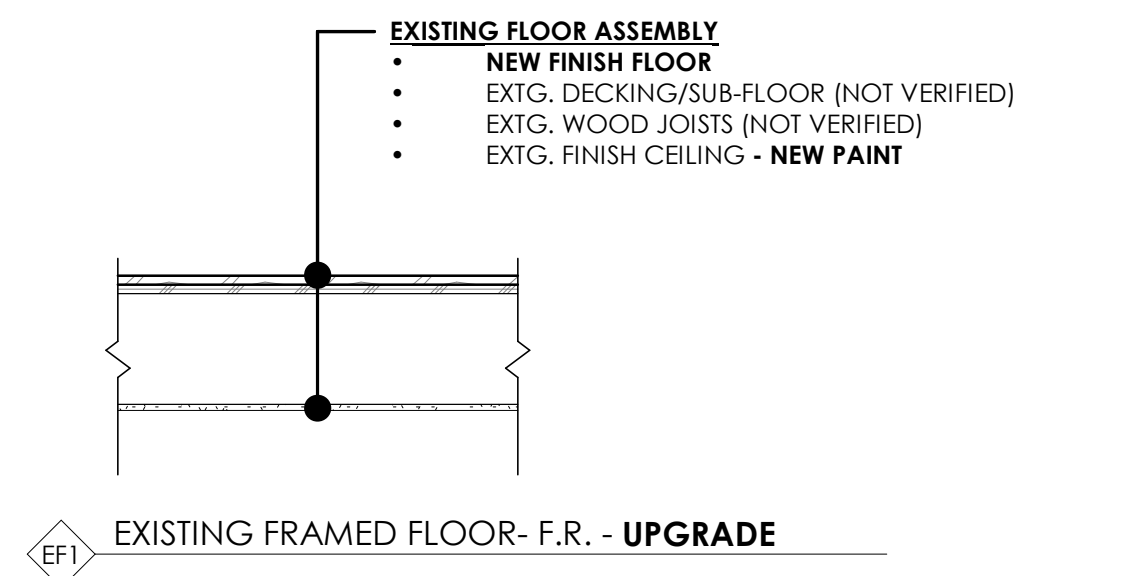
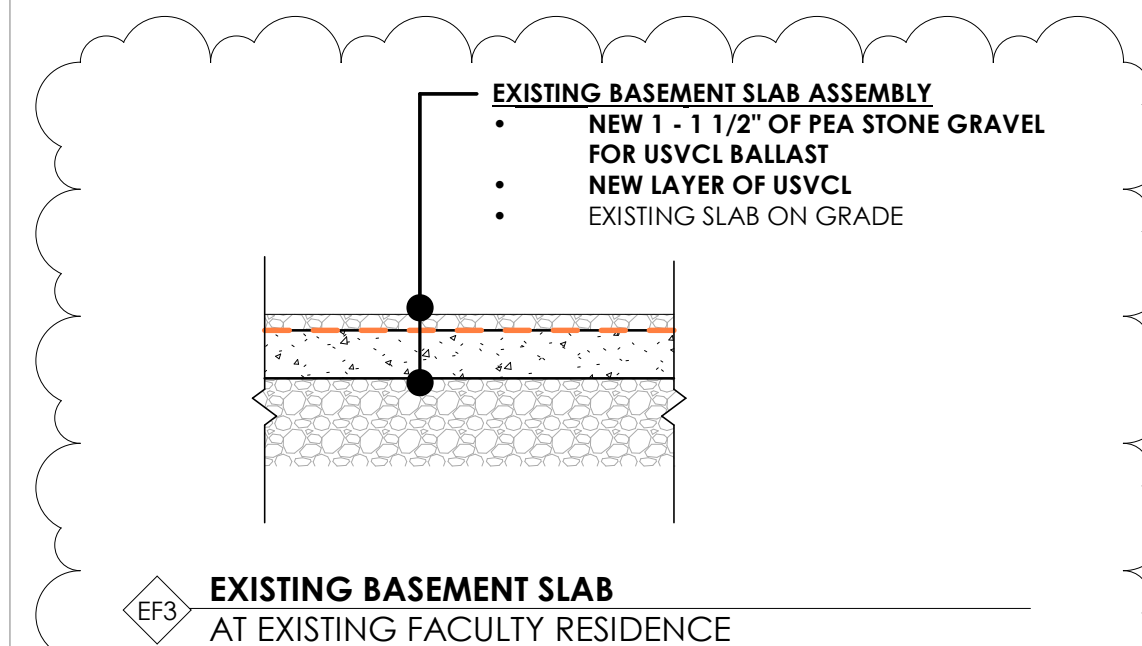
EXISTING EXTERIOR WALL ASSEMBLIES



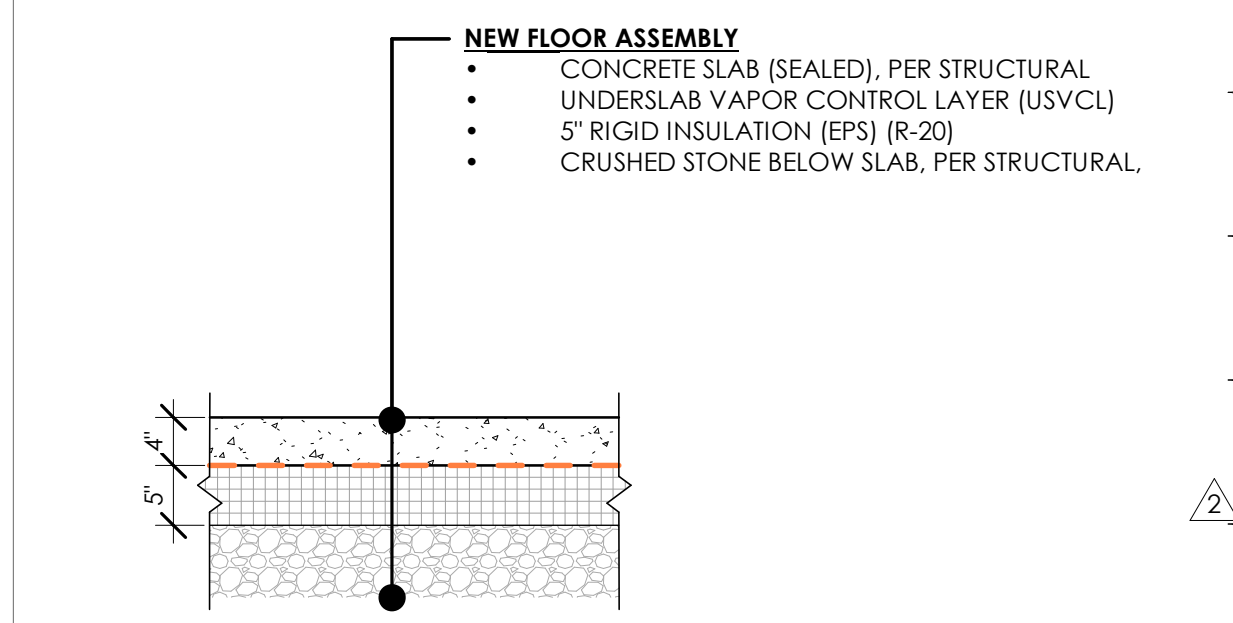
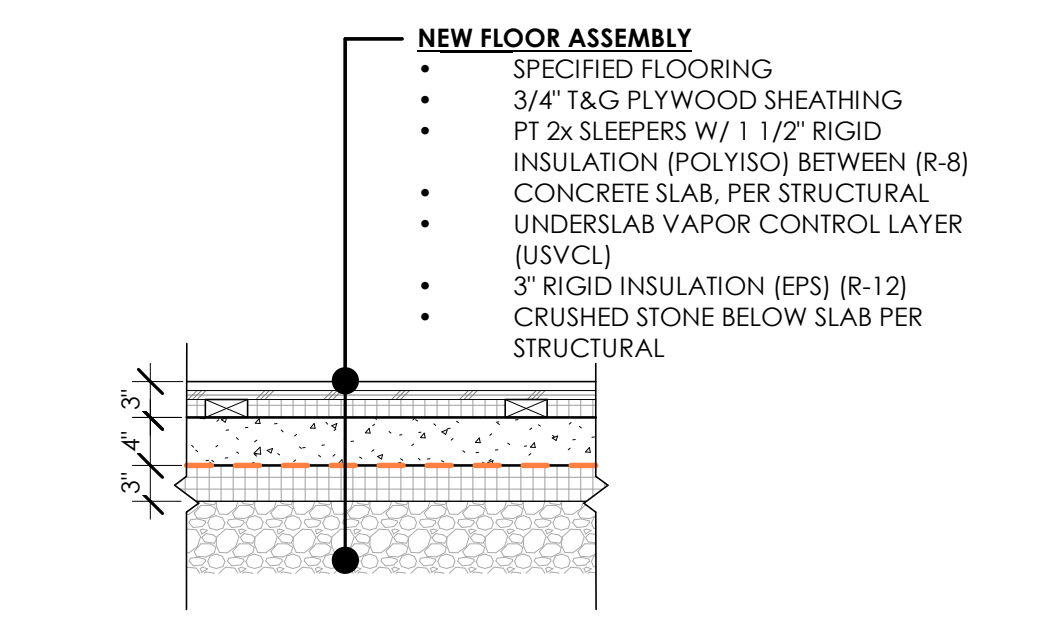
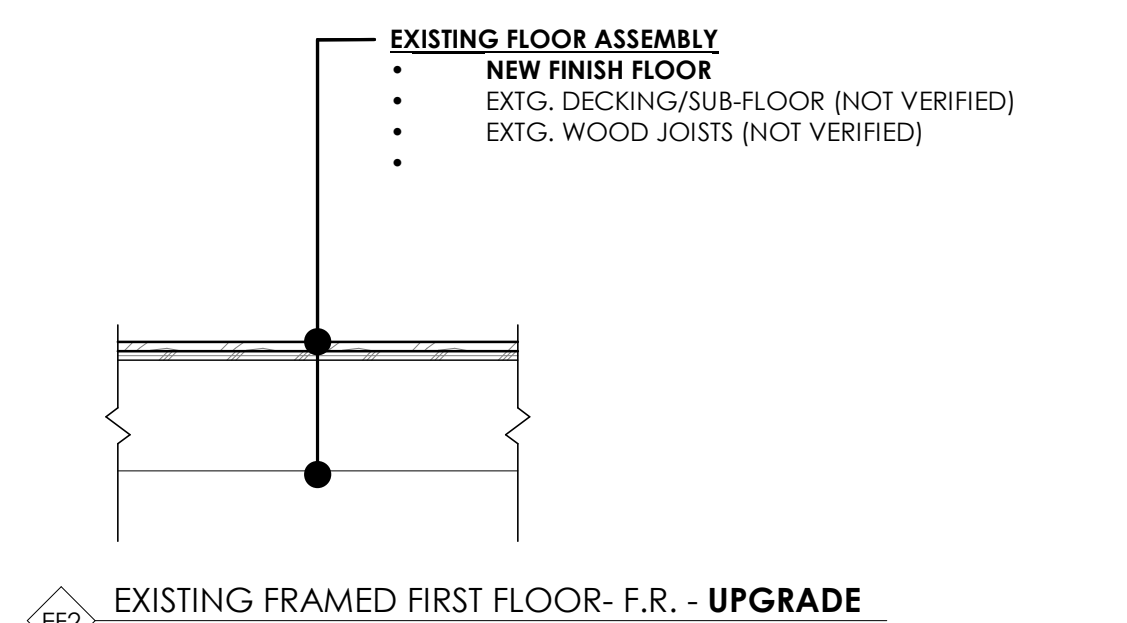
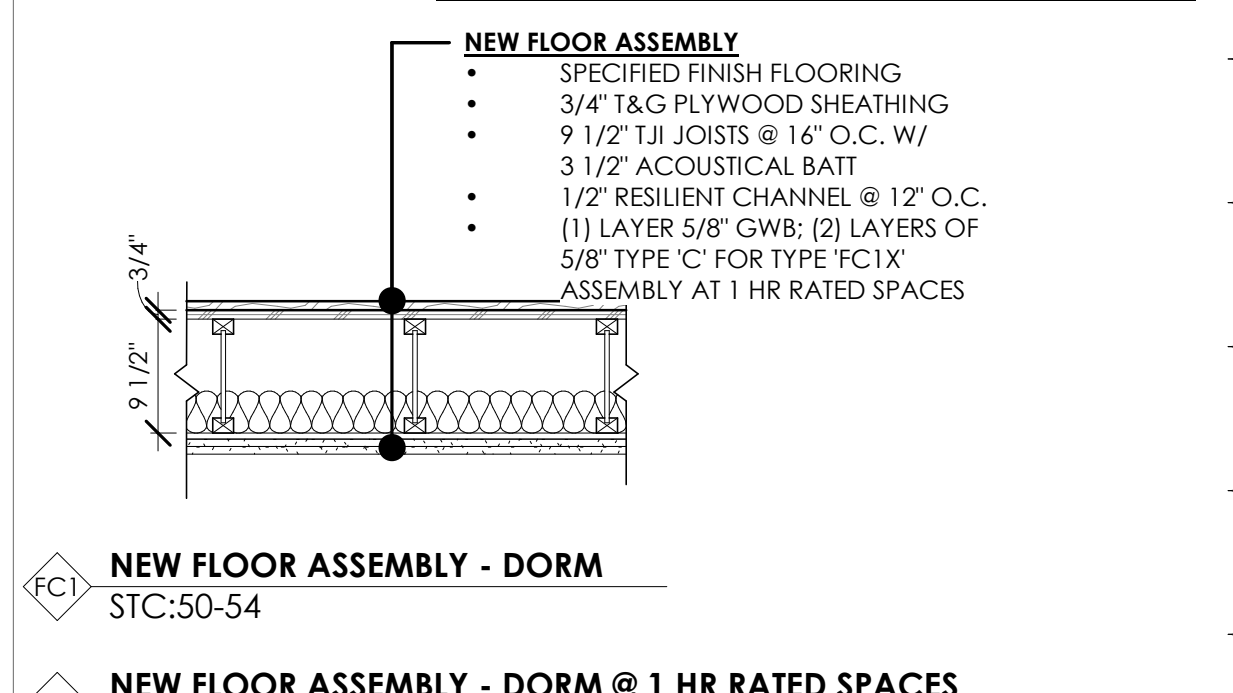
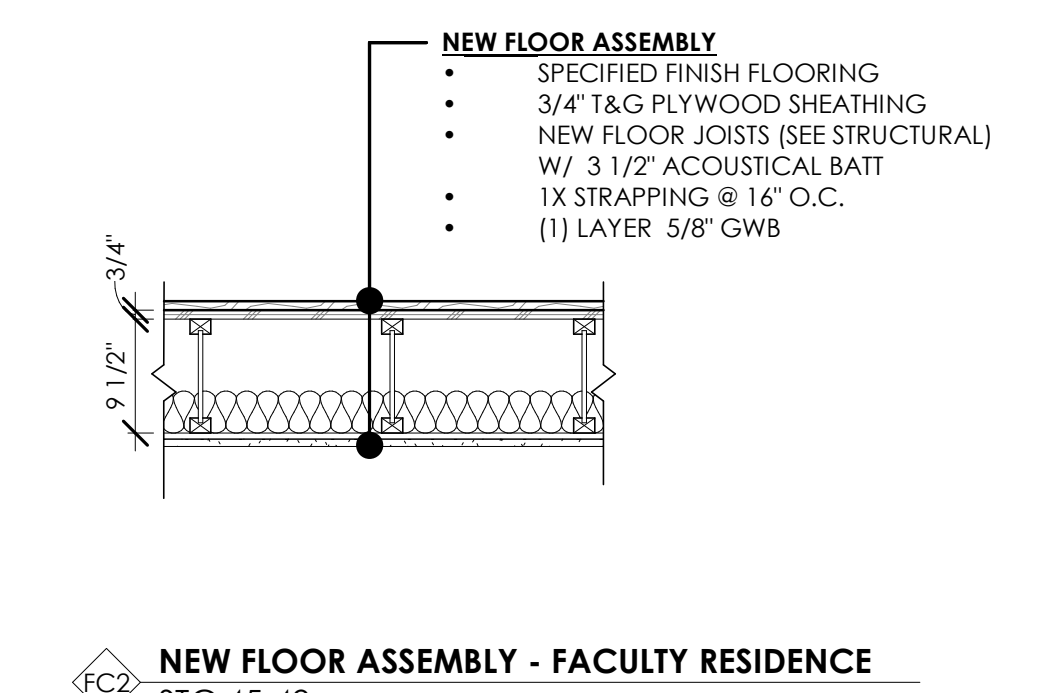
NEW EXTERIOR WALL ASSEMBLIES

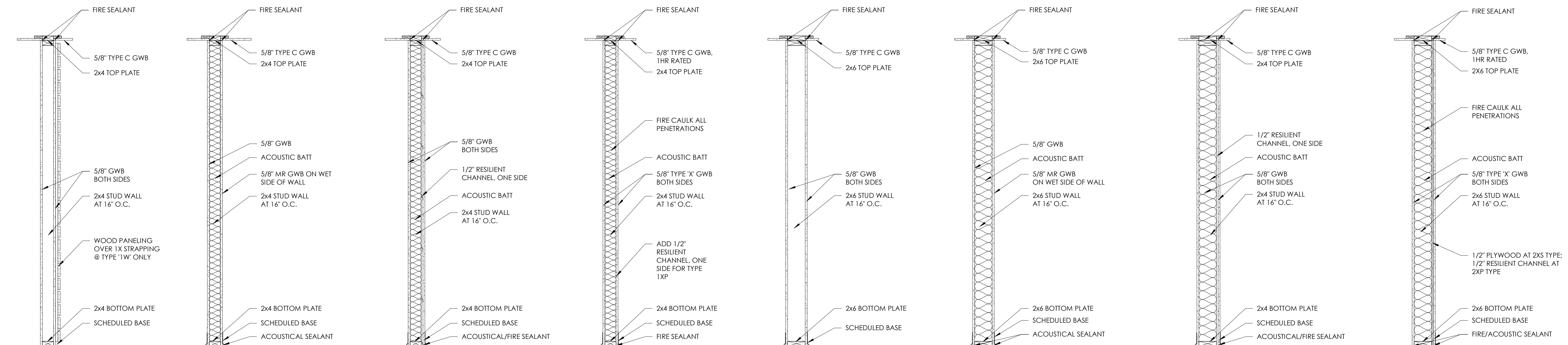


EXISTING FLOOR ASSEMBLIES



NEW FLOOR ASSEMBLIES





1 2x4 PARTITION

1W 2x4 PARTITION
W/ WOOD PANELING

1M 2x4 MOISTURE PARTITION

STC: 35-39

1P 2x4 PARTY PARTITION

1/2 HR RATED
STC: 45-49

WHERE TYPE "1P" PARTITION IS LOCATED AT A BATHROOM, MOISTURE-RESISTENT GWB SHALL BE USED ON THE WET SIDE OF THE WALL

RESILIENT CHANNEL SHALL ALWAYS BE ON THE HALLWAY OR BATHROOM SIDE. WHERE TWO DORM ROOMS ABUT, 1/2" CHANNEL SHALL BE ON THE NORTH SIDE

1X 2x4 FIRE RATED PARTITION

1 HR RATED
UL DESIGN U305
STC: 35-39

1XS 2x4 FIRE RATED SHEAR PARTITION

SAME AS 1X PLUS LAYER OF 1/2" PLYWD SHEATHING ON THE WEST SIDE OF FRAMING

1XP 2x4 PARTY / CORRIDOR

SAME AS 1X PLUS ADD 1/2" RESILIENT CHANNEL
STC: 45-49

2 2x6 PARTITION

2M 2x6 MOISTURE PARTITION

2P 2x6 CORRIDOR PARTITION

1/2 HR RATED
STC: 45-49

WHERE TYPE "2P" PARTITION IS LOCATED AT A BATHROOM, MOISTURE-RESISTENT GWB SHALL BE USED ON THE WET SIDE OF THE WALL

RESILIENT CHANNEL SHALL ALWAYS BE ON THE HALLWAY SIDE

2X 2x6 FIRE RATED PARTITION

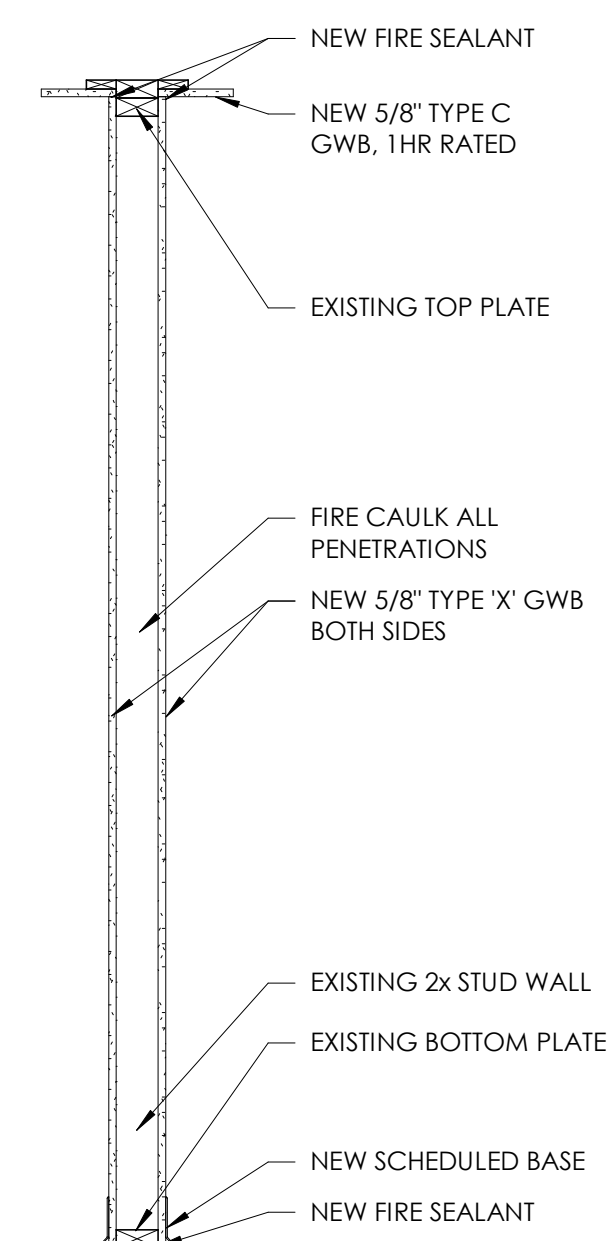
1 HR RATED
UL DESIGN U305
STC: 35-39

2XS 2x6 FIRE RATED SHEAR PARTITION

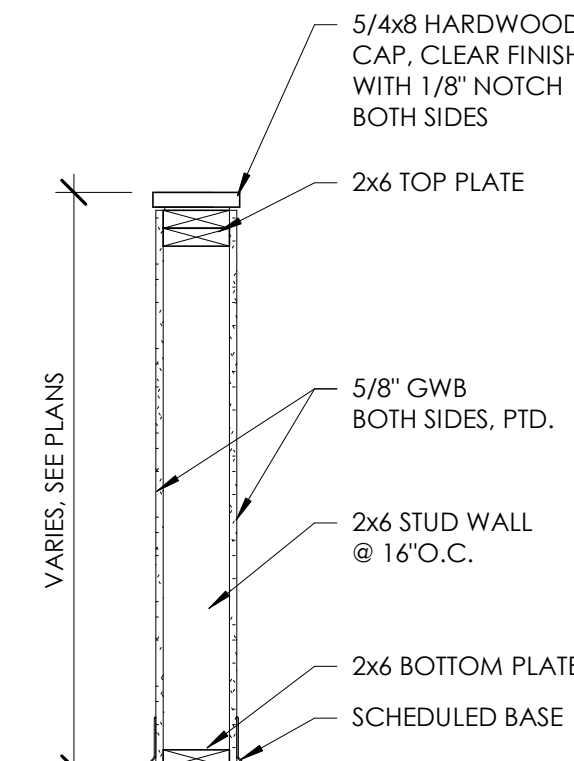
WITH 1/2" PLYWOOD
1 HR RATED
UL DESIGN U305
STC: 45-49

2XP 2x6 FIRE RATED PARTITION

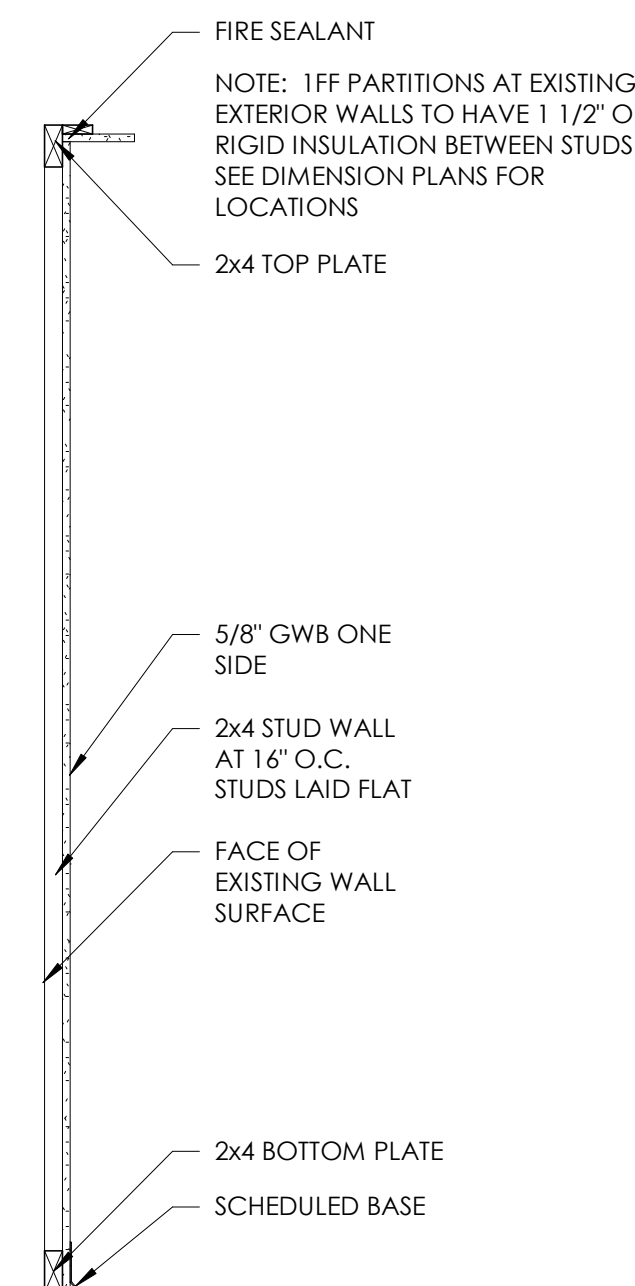
SAME AS 2X EXCEPT WITH 1/2" RESILIENT CHANNEL



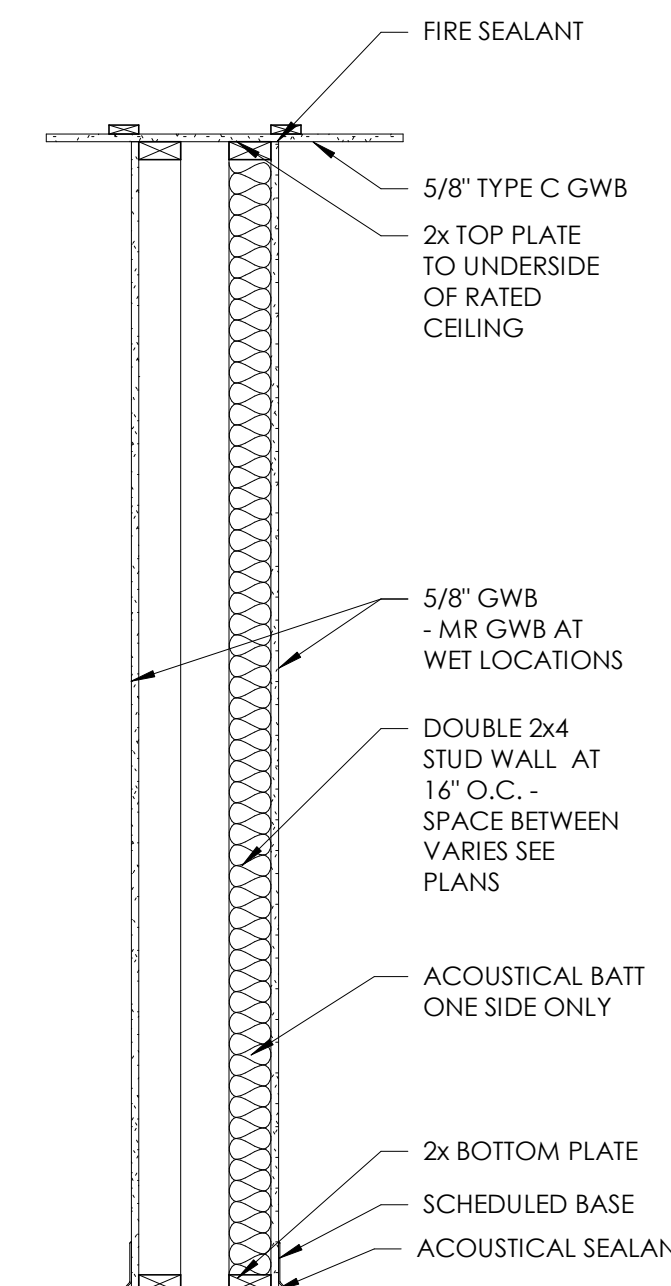
1DX EXISTING FIRE RATED PARTITION
1 HR RATED



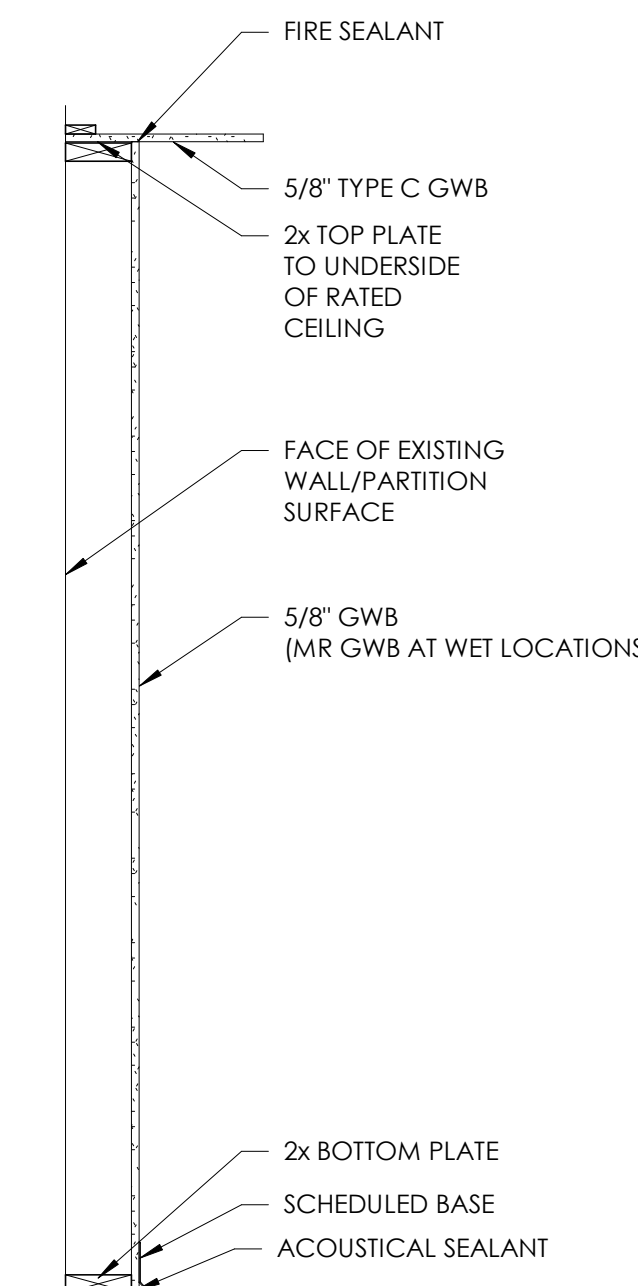
2H 2x6 1/2 HEIGHT PARTITION



1FF 2x4 ON FLAT FURRING PARTITION

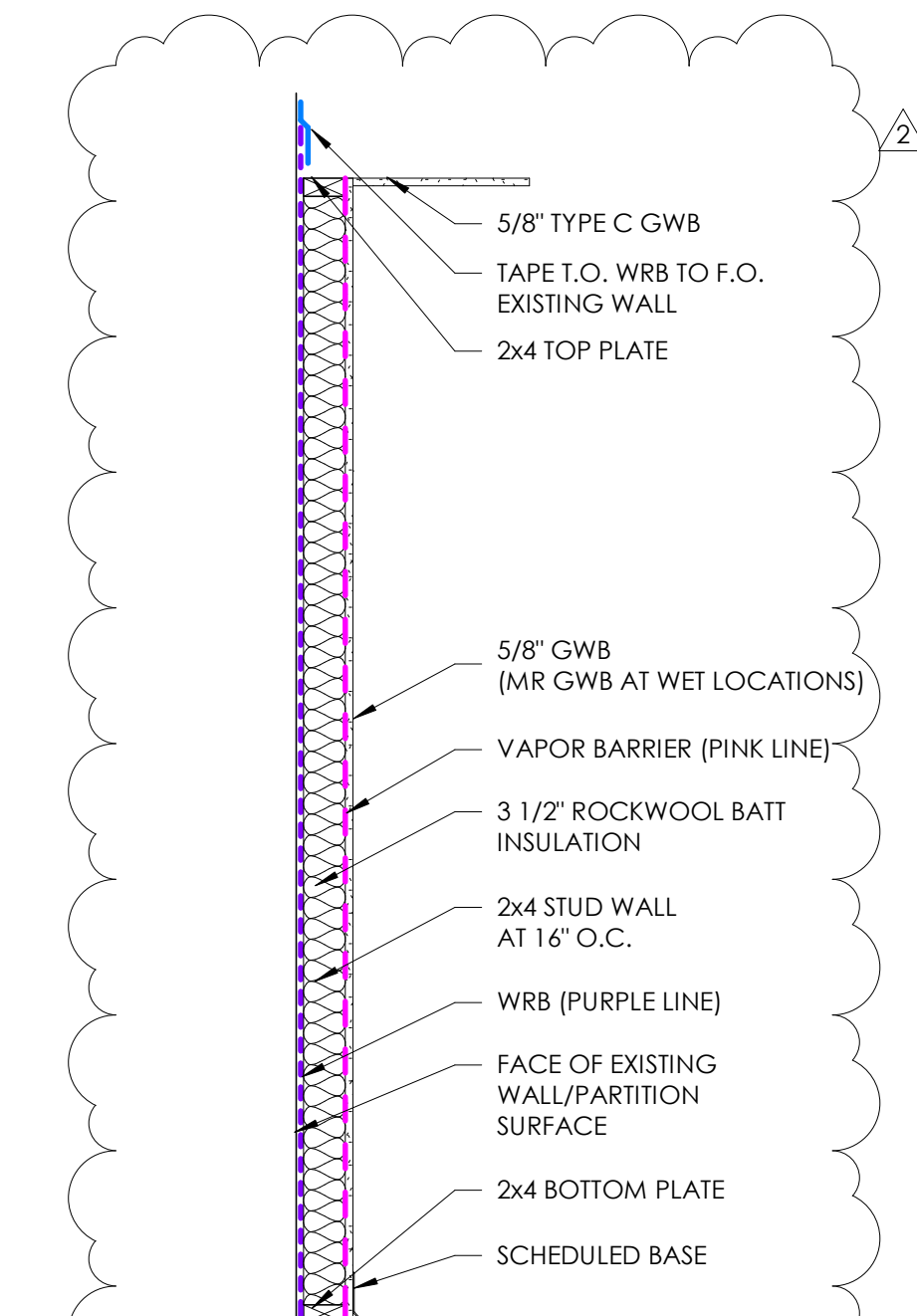


1C 2x4 CHASE WALL
1/2 HR RATED
STC: 50-54



1F 2x4 FURRING PARTITION

2F 2x6 FURRING PARTITION



3F 2x4 INSULATED FURRING PARTITION

Interior Partition Types
3/4" = 1'-0"

GENERAL ACOUSTICAL NOTE:

- ALL WALLS BETWEEN DORM ROOMS; BETWEEN DORM ROOMS AND BATHROOMS; BETWEEN DORM ROOMS AND CORRIDORS: TO RECEIVE ACOUSTICAL BATT AND RESILIENT CHANNEL.
- RESILIENT CHANNELS REQUIRED IN SOME LOCATION TO ALLOW WALLS TO FLUSH OUT WITH ACOUSTICALLY TREATED WALLS.

ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com
ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
802.989.7249

CIVIL ENGINEER

Nicholas Fiore, P.E.
Engineering Ventures
nikf@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E.
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER

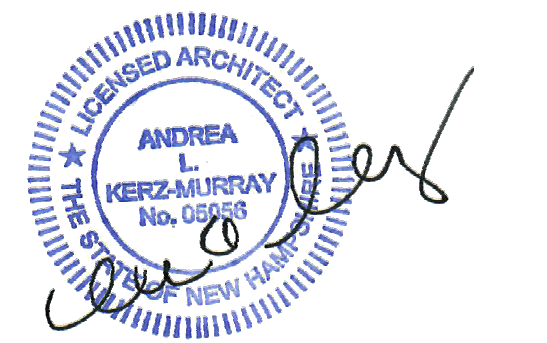
Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvtllc.com
802.885.8091

ELECTRICAL ENGINEER

Claus Barstenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.barstenstein@esvtllc.com
802.885.8091

CONSTRUCTION MANAGER

Calvin Russell, Senior Project Manager
ReArch Company, Inc.
calvinr@rearchcompany.com
802.863.8727



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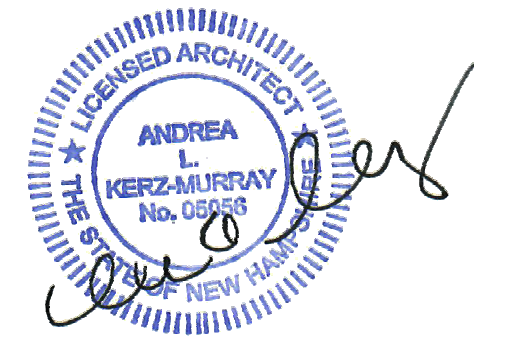
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**KUA
KILTON/WELCH
DORMITORIES**

Main Street,
Meriden, NH 03770

**WELCH
INTERIOR
PARTITIONS**

AW-0.6



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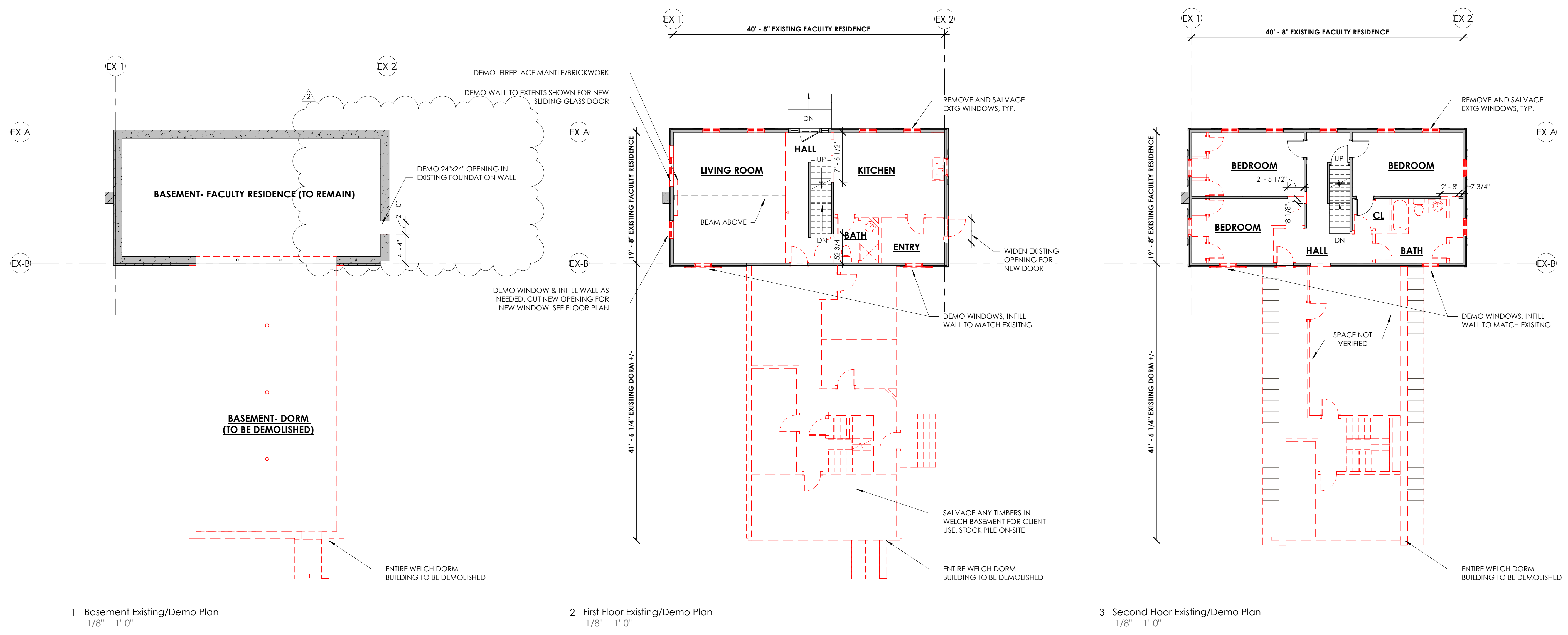
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KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

WELCH
EXISTING / DEMO
PLANS

AW-1.0



DEMO PLAN LEGEND

DEMOLISH/REMOVE

FLOOR PLAN LEGEND

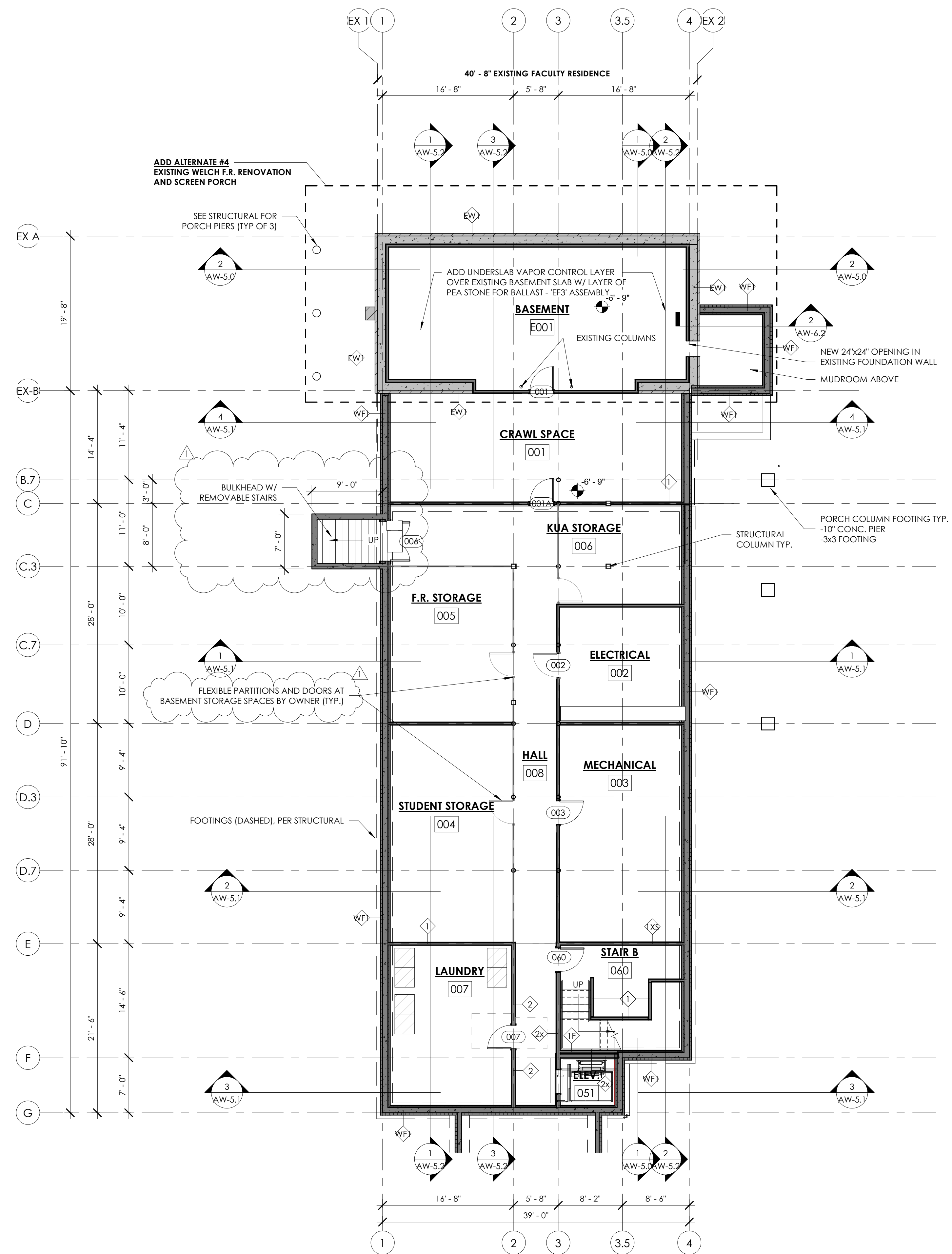
EXISTING WALL

EXISTING CONCRETE WALL

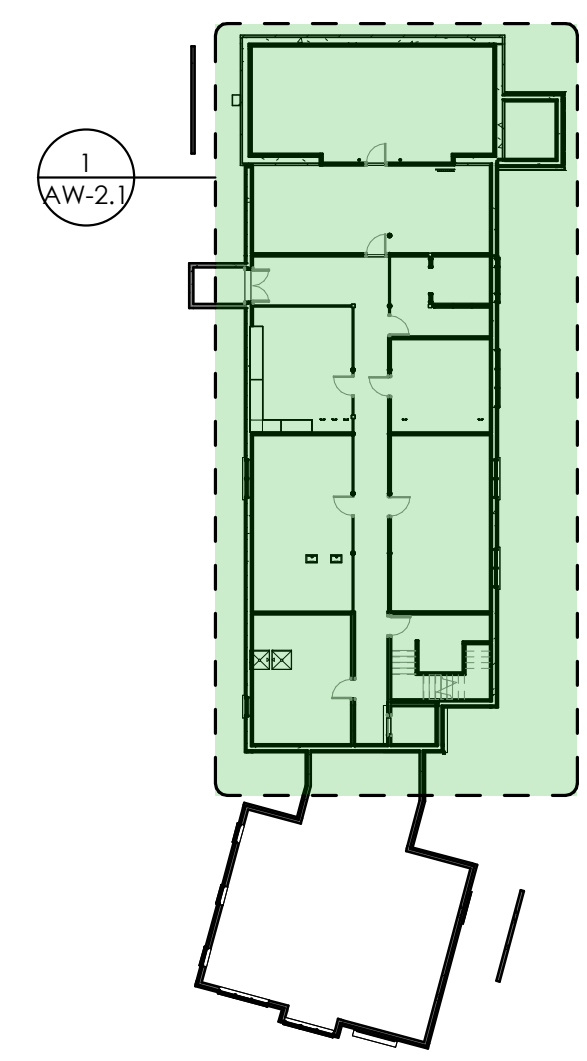
EXISTING MASONRY WALL

NEW WALL/NEW WALL INFILL

- GENERAL DEMOLITION NOTES:**
1. VERIFY EXISTING CONDITIONS IN-FIELD, NOTIFY ARCHITECT OF ANY MAJOR DISCREPANCIES.
 2. RED DASHED ITEMS ARE FOR DEMOLITION.
 3. DIMENSIONS SHOWN ARE TO FACE OF FINISH UNLESS NOTED OTHERWISE.
 4. SEE MEP DRAWINGS FOR DEMOLITION SCOPE OF EXISTING FIXTURES/DEVICES.
 5. SEE CIVIL, ELECTRICAL, AND PLUMBING DRAWINGS FOR EXTENT OF DEMO SCOPE REGARDING UTILITIES AND ON-SITE CONCRETE.
 6. SALVAGE EXISTING WINDOWS AND DOORS FOR RE-USE HEREIN OR FOR CLIENT FUTURE USE.
 7. SALVAGE LANDSCAPE BRICKS AT EAST ENTRY FOR RE-USE IN NEW WALKWAYS. STOCK PILE ON-SITE.



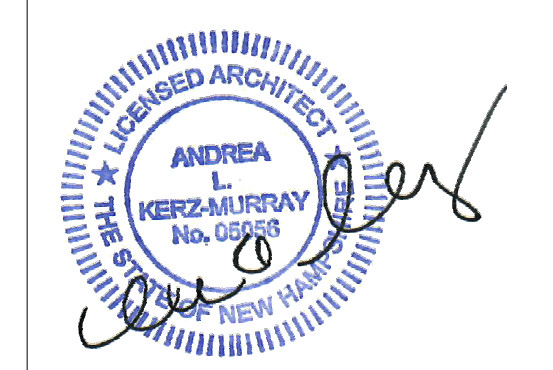
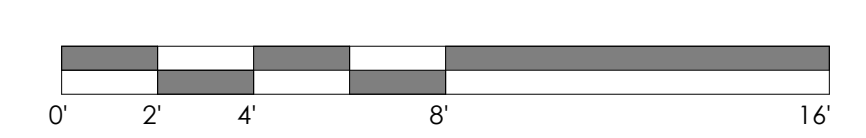
1 Basement Plan
1/8" = 1'-0"



2 Basement Plan Location Key
1" = 30'-0"

- GENERAL NOTES:**
1. ALL DIMENSIONS TO FACE-OF-FRAMING, CONCRETE, OR GRIDLINE, U.O.N.
 2. VERIFY ALL DIMENSIONS AND CONDITIONS IN-FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF MAJOR DISCREPANCIES OCCUR.
 3. SEE SHEETS AW-0.5 & AW-0.6 FOR ASSEMBLY TYPE INFORMATION AND INTERIOR PARTITION INFO.
 4. FOR INTERIOR PARTITION LOCATIONS/DIMENSIONS, SEE 7-SERIES DRAWING SHEETS.
 5. PROVIDE BLOCKING FOR GRAB BARS, TOILET PAPER HOLDERS, TOWEL BARS, MIRRORS, CABINETS, AND OTHER FIT-UP ITEMS. SEE FLOOR PLANS FOR LOCATIONS.
 6. ALL FURNITURE AND APPLIANCES BY OWNER; INSTALL COORDINATED WITH CM, BUILT-INS BY CONTRACTOR.
 7. ALL NEW BATHROOMS TO BE ACCESSIBLE BY CODE
 8. SEE EGRESS PLANS ON AW-0.4 FOR FIRE RATING REQUIREMENT LOCATIONS OF WALLS.

- FLOOR PLAN LEGEND**
- EXISTING WALL
 - EXISTING CONCRETE WALL
 - EXISTING MASONRY WALL
 - NEW WALL/NEW WALL INFILL



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1	04/12/23	Addendum 1; Bid Set 1

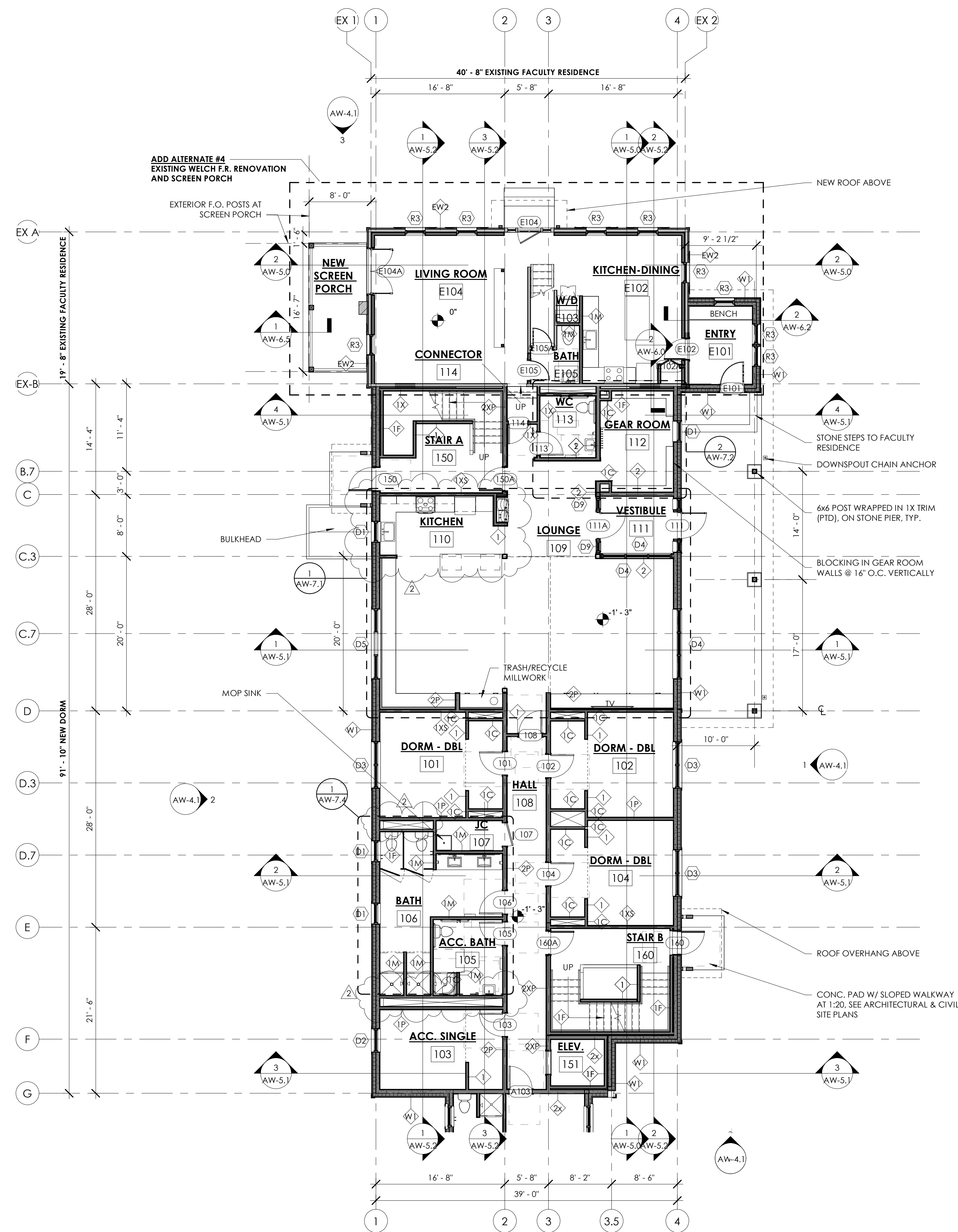
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KUA
KILTON/WELCH
DORMITORIES

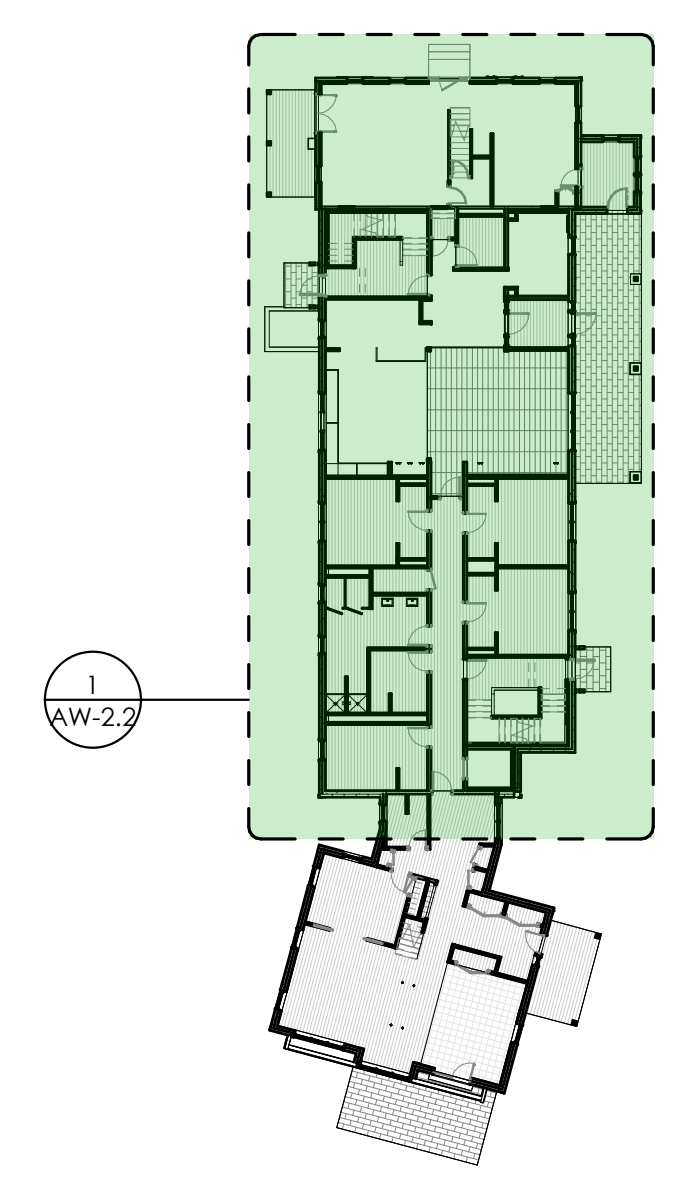
Main Street,
Meriden, NH 03770

WELCH
BASEMENT PLAN

AW-2.1



1 First Floor Plan
1/8" = 1'-0"

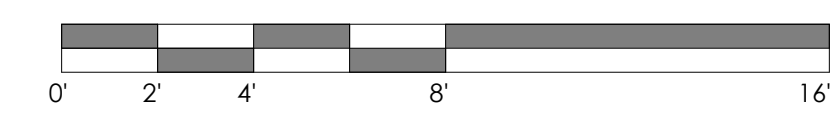


2 First Floor Plan Location Key
1" = 30'-0"

- GENERAL NOTES:**
1. ALL DIMENSIONS TO FACE-OF-FRAMING, CONCRETE, OR GRIDLINE, U.O.N. VERIFY ALL DIMENSIONS AND CONDITIONS IN-FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF MAJOR DISCREPANCIES OCCUR.
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 6. ALL NEW BATHROOMS TO BE ACCESSIBLE BY CODE
 7. SEE EGRESS PLANS ON AW-0.4 FOR FIRE RATING REQUIREMENT LOCATIONS OF WALLS.
 - 8.

FLOOR PLAN LEGEND

- EXISTING WALL
- EXISTING CONCRETE WALL
- EXISTING MASONRY WALL
- NEW WALL/NEW WALL INFILL



ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com
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ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
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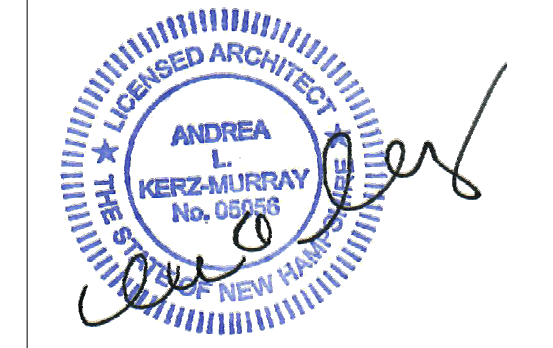
CIVIL ENGINEER
Nicholas Fiore, P.E.
Engineering Ventures
nikf@engineeringventures.com
802.863.6225

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claus.barstenstein@esvllc.com
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Calvin Russell, Senior Project Manager
ReArch Company, Inc.
calvin@rearchcompany.com
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**KUA
KILTON/WELCH
DORMITORIES**

Main Street,
Meriden, NH 03770

**WELCH
FIRST FLOOR PLAN**

AW-2.2



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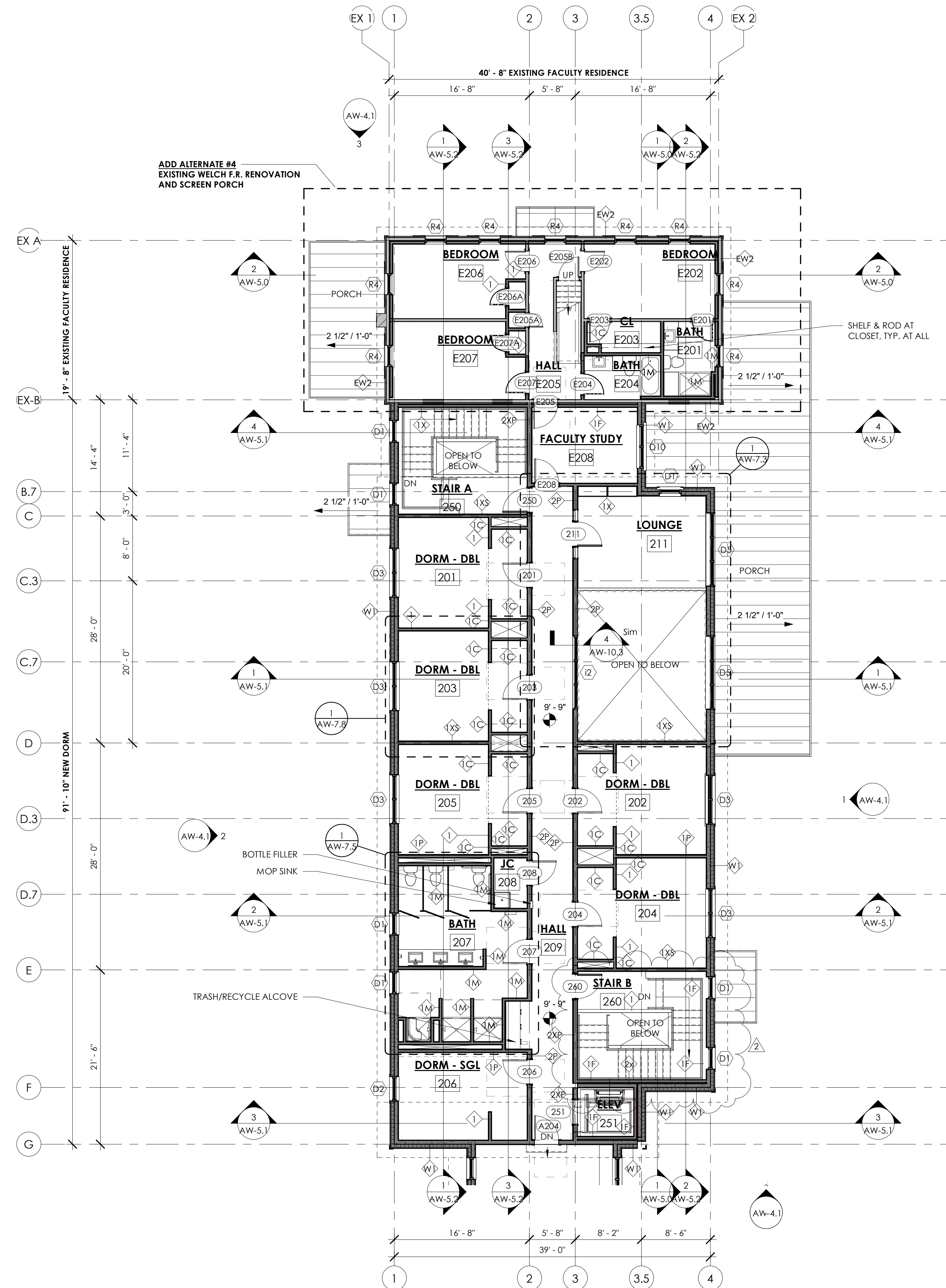
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**KUA
KILTON/WELCH
DORMITORIES**

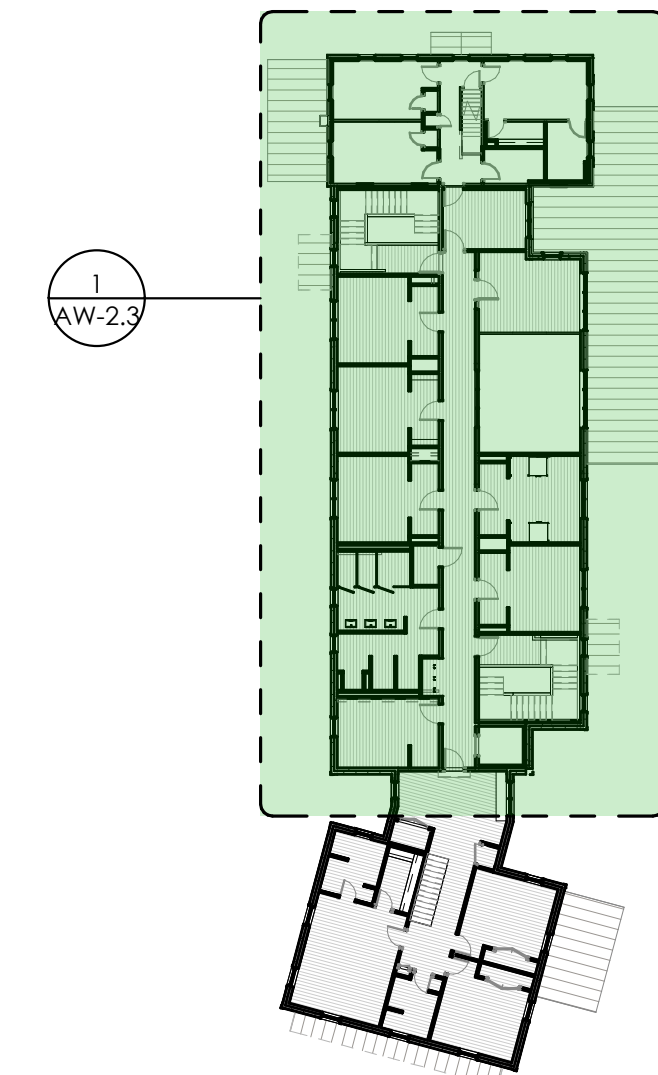
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**WELCH
SECOND FLOOR
PLAN**

AW-2.3



1 Second Floor Plan
1/8" = 1'-0"

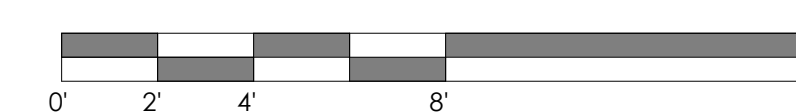


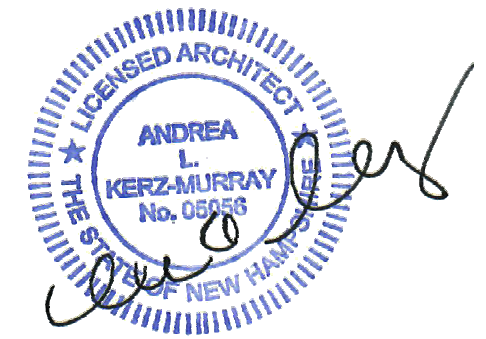
2 Second Floor Plan Location Key
1" = 30'-0"

- GENERAL NOTES:**
1. ALL DIMENSIONS TO FACE-OF-FRAMING, CONCRETE, OR GRIDLINE, U.O.N. VERIFY ALL DIMENSIONS AND CONDITIONS IN-FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF MAJOR DISCREPANCIES OCCUR.
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 4. PROVIDE BLOCKING FOR GRAB BARS, TOILET PAPER HOLDERS, TOWEL BARS, MIRRORS, CABINETS, AND OTHER FIT-UP ITEMS. SEE FLOOR PLANS FOR LOCATIONS.
 5. ALL FURNITURE AND APPLIANCES BY OWNER; INSTALL COORDINATED WITH CM. BUILT-INS BY CONTRACTOR.
 6. ALL NEW BATHROOMS TO BE ACCESSIBLE BY CODE
 7. SEE EGRESS PLANS ON AW-0.4 FOR FIRE RATING REQUIREMENT LOCATIONS OF WALLS.

FLOOR PLAN LEGEND

- EXISTING WALL
- EXISTING CONCRETE WALL
- EXISTING MASONRY WALL
- NEW WALL/NEW WALL INFILL





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PERMIT SET 05/15/2023

KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

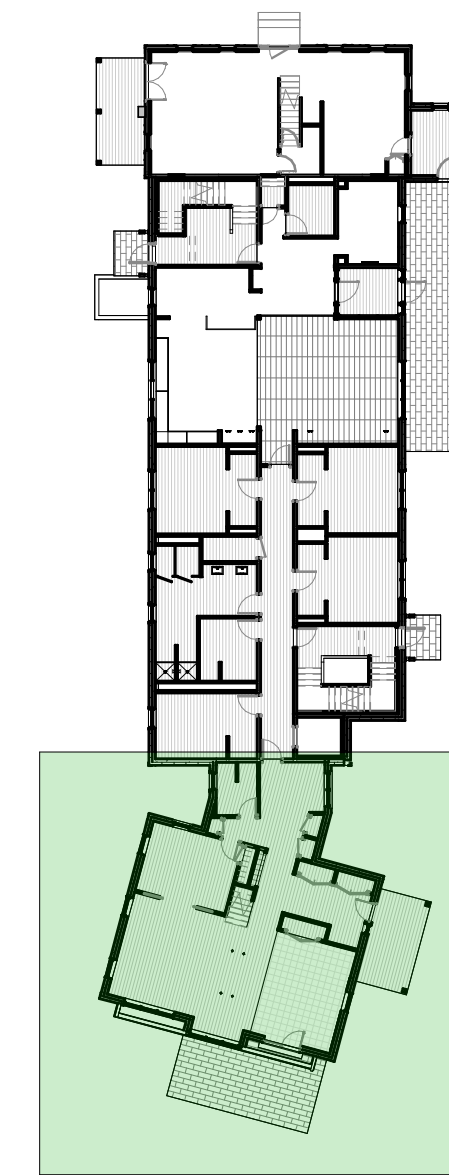
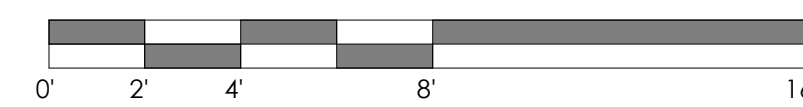
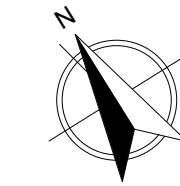
WELCH
FACULTY
RESIDENCE PLANS

AW-2.4

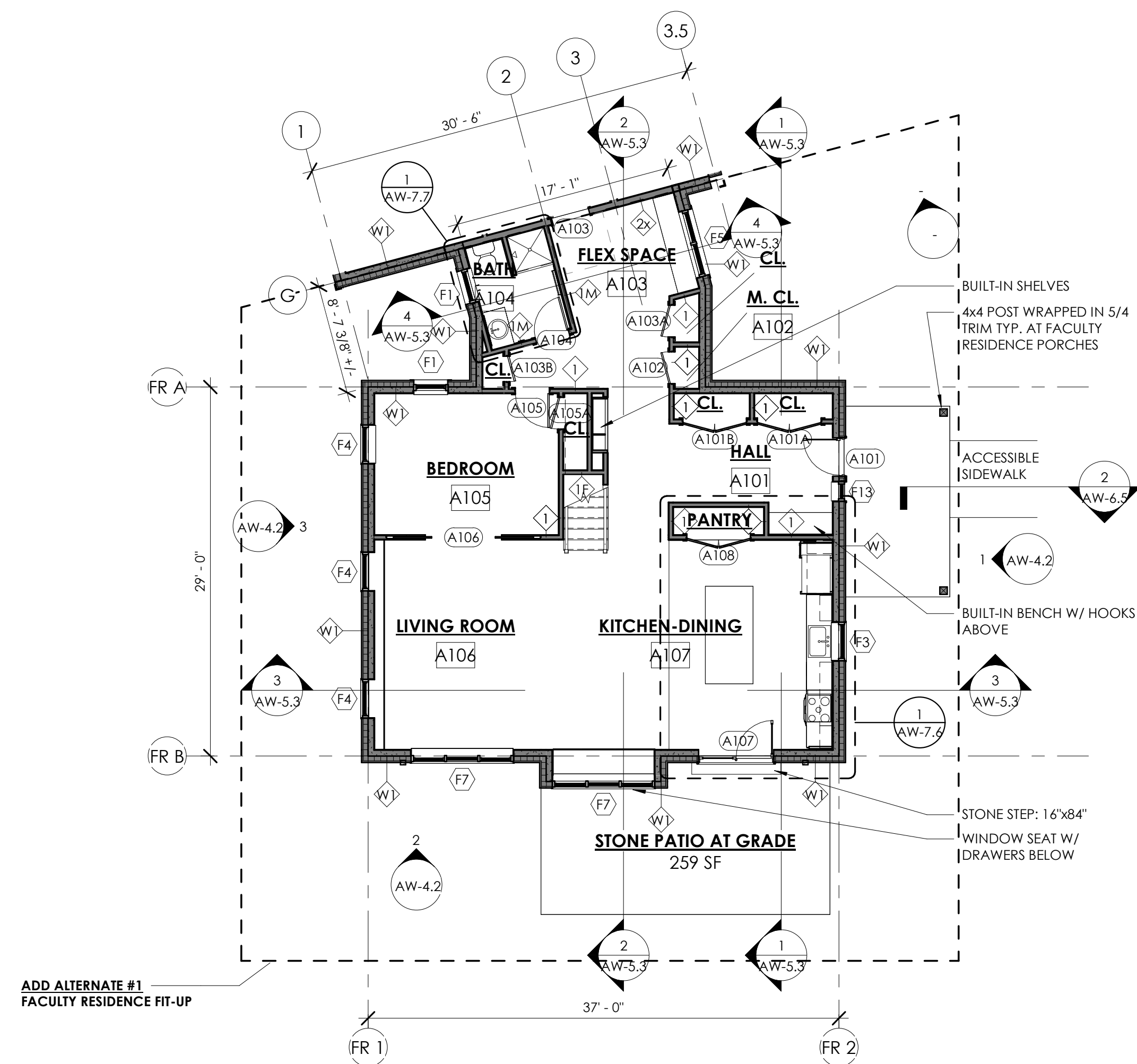
- GENERAL NOTES:**
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FLOOR PLAN LEGEND

- EXISTING WALL
- EXISTING CONCRETE WALL
- EXISTING MASONRY WALL
- NEW WALL/NEW WALL INFILL

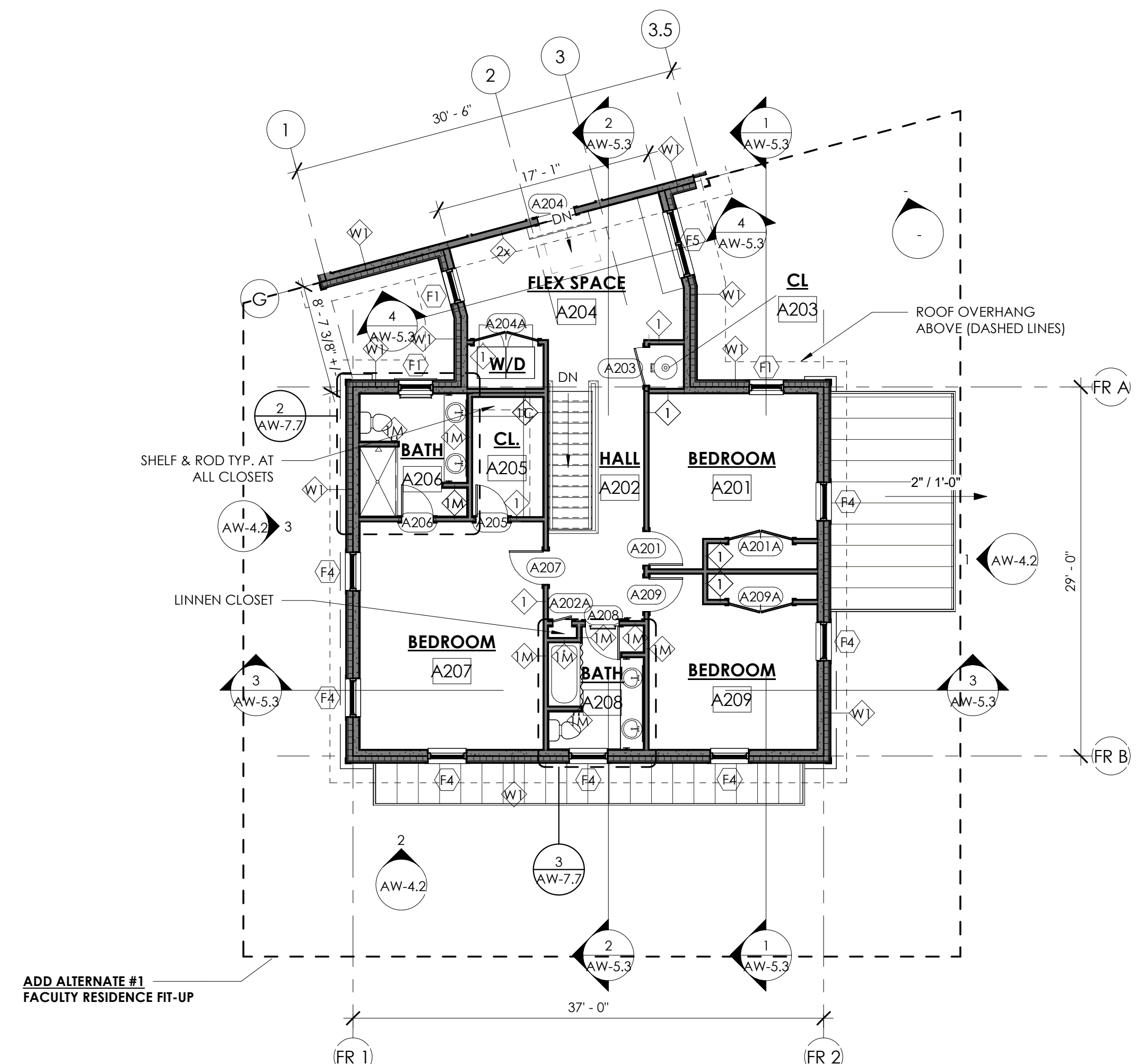


3 Faculty Residence Location Key
1" = 30'-0"



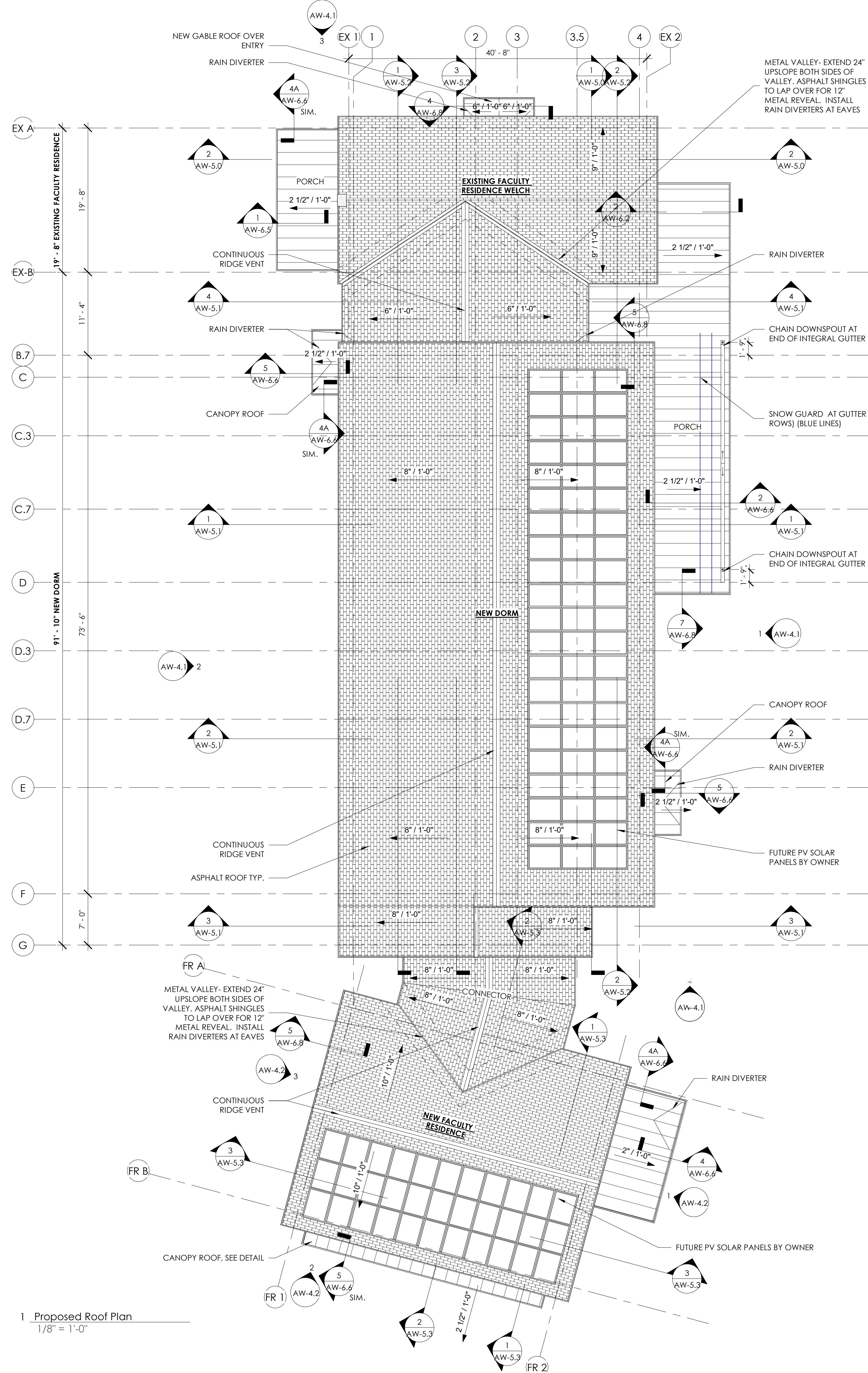
ADD ALTERNATE #1
FACULTY RESIDENCE FIT-UP

1 First Floor- Faculty Residence
1/8" = 1'-0"



ADD ALTERNATE #1
FACULTY RESIDENCE FIT-UP

2 Second Floor- Faculty Residence
1/8" = 1'-0"



1 Proposed Roof Plan
1/8" = 1'-0"

- ROOF GENERAL NOTES:**
1. ALL DIMENSIONS TO FACE-OF-FRAMING, CONCRETE, OR GRIDLINE, U.O.N.
 2. VERIFY ALL DIMENSIONS AND CONDITIONS IN-FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF DISCREPANCIES.
 3. PROVIDE BLOCKING FOR ALL ROOF MOUNTED EQUIPMENT.
 4. PROVIDE PLATES FOR ALL OVERBUILD AREAS. REMOVING EXISTING FINISH ROOFING PRIOR TO INSTALLATION.
 5. COORDINATE ALL ROOF VENT & PENETRATION LOCATIONS WITH ARCHITECT. ROOF PLANES SHOWING PV PANELS TO BE KEPT CLEAR OF ALL EQUIP. & PENETRATIONS, TYP.

- GENERAL NOTES:**
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FLOOR PLAN LEGEND

- EXISTING WALL
- EXISTING CONCRETE WALL
- EXISTING MASONRY WALL
- NEW WALL/NEW WALL INFILL

ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com

ASHAR NELSON, AIA, LEED AP
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Middlebury, VT 05753
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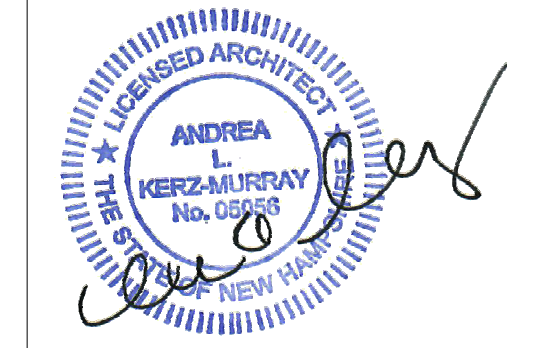
CIVIL ENGINEER
Nicholas Fiore, P.E.
Engineering Ventures
nikf@engineeringventures.com
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Bob Neeld, P.E.
Engineering Ventures
bobn@engineeringventures.com
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MECH./PLUMBING ENGINEER
Daniel Dupros, P.E.
Engineering Services of Vermont, LLC
daniel.dupros@esvllc.com
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claus.barstenstein@esvllc.com
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Calvin Russell, Senior Project Manager
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802.863.8727



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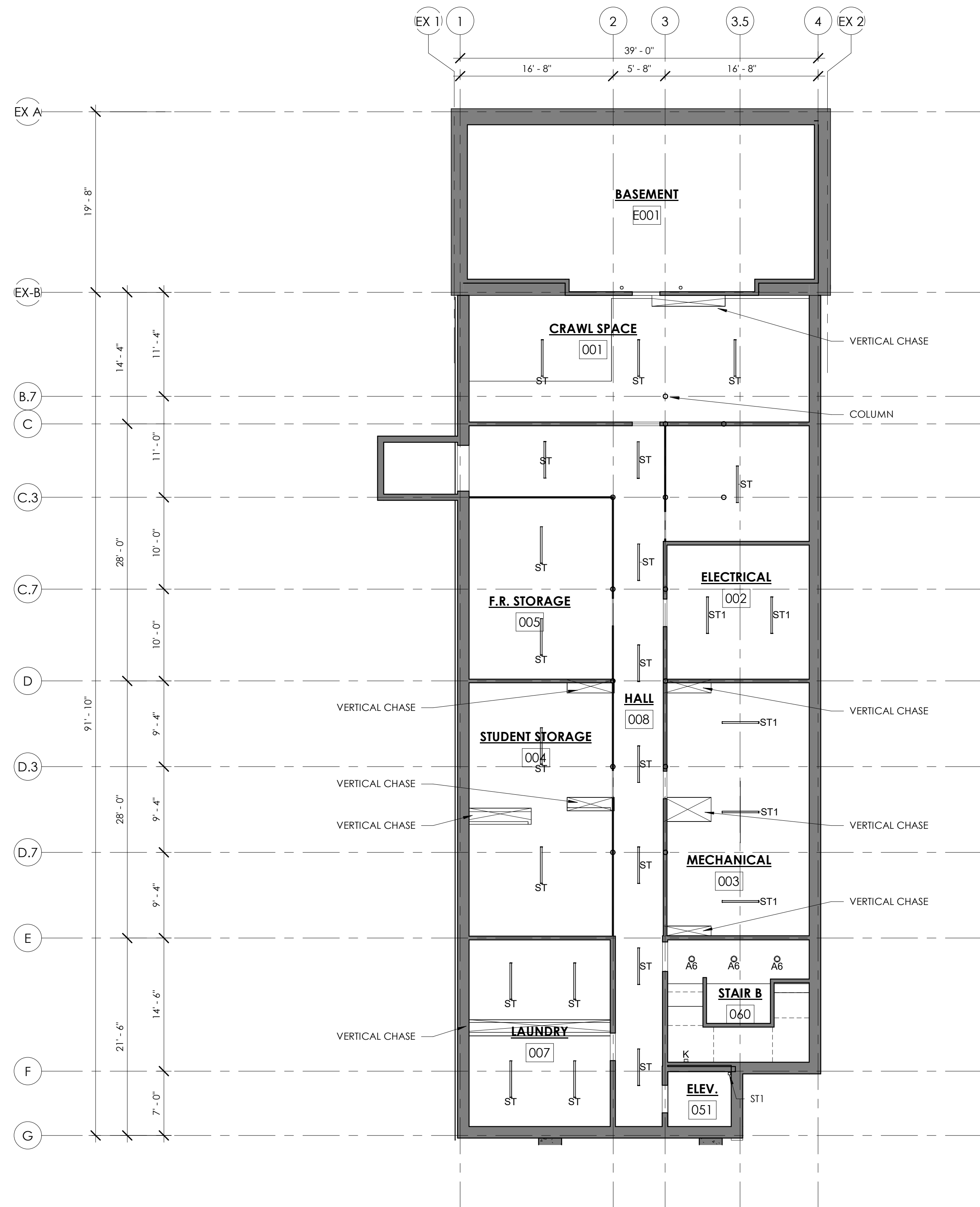
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**KUA
KILTON/WELCH
DORMITORIES**

Main Street,
Meriden, NH 03770

**WELCH
ROOF PLAN**

AW-2.5



1 Basement RCP
1/8" = 1'-0"

RCP NOTES:

1. CEILING HEIGHTS SHOWN ARE APPROXIMATE. TBD, VIF.
2. SOFFIT WIDTHS SHOWN ARE TO OUTSIDE FACE-OF-FINISH. SEE DETAILS FOR CONSTRUCTION INFORMATION.
3. COORDINATE WITH MECHANICAL DRAWINGS AS NEEDED FOR HVAC DEVICE LOCATIONS.
4. SEE ELECTRICAL LIGHTING PLANS FOR QUANTITIES, LOCATIONS, AND SPECS FOR FIXTURES.
5. ALL LIGHTING AND DEVICE QUANTITIES SHOULD BE PRICED FROM ELECTRICAL PLANS. LIGHTING ON ARCHITECTURAL PLANS ARE FOR LOCATIONAL REFERENCE ONLY.
6. "TYPE E" - PENDANT FIXTURES SHALL BE CENTERED OVER THE KITCHEN ISLAND BELOW.
7. COORDINATE MOUNTING HEIGHT OF FIXTURES WITH ARCHITECT.
8. LOCATION OF FIXTURES SHOULD BE CENTERED WITHIN A CEILING, U.N.O.
9. NEW AND EXISTING SPACES TO BE FULLY-EQUIPPED WITH A SPRINKLER SYSTEM.
10. ASSUME GWB CEILING FINISH IN NEW STAIRS, UNDER EACH STRINGER. SEE DETAILS.
11. ALL DROPPED-SOFFITS IN DORM ROOMS TO BE FRAMED W/ 2X4 LUMBER W/ GWB. CORRIDOR & BATHROOM CEILINGS TO BE SUSPENDED GWB ON 650 GRID.

FLOOR PLAN LEGEND

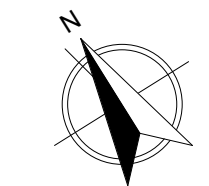
- EXISTING WALL
- EXISTING CONCRETE WALL
- EXISTING MASONRY WALL
- NEW WALL/NEW WALL INFILL

CEILING TYPES

- GYPSUM WALL BOARD
- GYPSUM WALL BOARD (SLOPED)
- WOOD CEILING

LIGHTING SCHEDULE

Type Mark	Description
A3	3 INCH RECESSED CAN/WAFER DOWNLIGHT - LED
A4	4 INCH RECESSED CAN/WAFER DOWNLIGHT - LED
A6	6 INCH RECESSED CAN/WAFER DOWNLIGHT- LED
AB	8 INCH RECESSED CAN/WAFER DOWNLIGHT- LED
B	Interior Wall Luminaire
D	DECORATIVE PENDANT- LARGE
E	DECORATIVE PENDANT- SMALL
F	DECORATIVE PENDANT- MEDIUM
G	LED STRIP LIGHT AT BATH ROOMS
K	WALL MOUNTED SCONCE
ST	UTILITY LIGHT
ST1	UTILITY LIGHT



ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com

ASHAR NELSON, AIA, LEED AP
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P.O. Box 862
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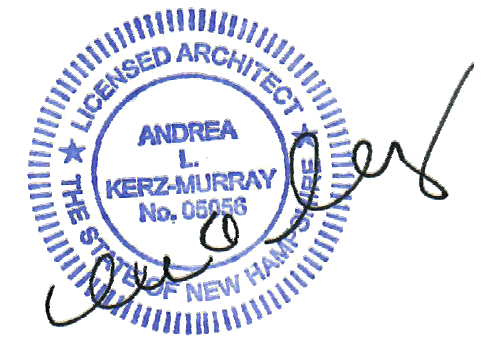
CIVIL ENGINEER
Nicholas Fiore, P.E.
Engineering Ventures
nikf@engineeringventures.com
802.863.6225

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ReArch Company, Inc.
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802.863.8727



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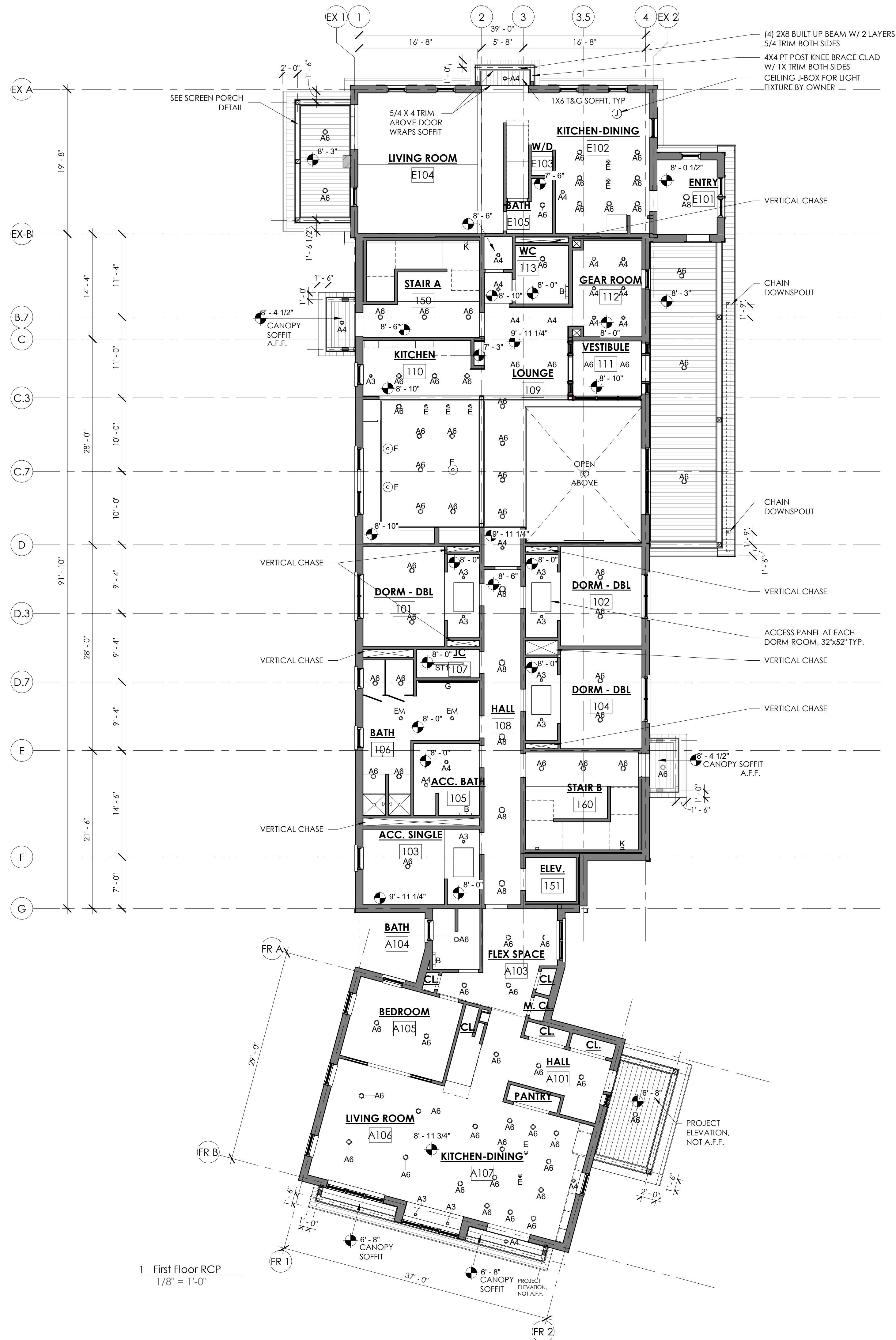
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KUA
KILTON/WELCH
DORMITORIES
Main Street,
Meriden, NH 03770
WELCH
BASEMENT RCP

AW-3.1



- RCP NOTES:**
1. CEILING HEIGHTS SHOWN ARE APPROXIMATE. TBD, VIF.
 2. SOFFIT WIDTHS SHOWN ARE TO OUTSIDE FACE-OF-FINISH. SEE DETAILS FOR CONSTRUCTION INFORMATION.
 3. COORDINATE WITH MECHANICAL DRAWINGS AS NEEDED FOR HVAC DEVICE LOCATIONS.
 4. SEE ELECTRICAL LIGHTING PLANS FOR QUANTITIES, LOCATIONS, AND SPECS FOR FIXTURES.
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 6. "TYPE E" - PENDANT FIXTURES SHALL BE CENTERED OVER THE KITCHEN ISLAND BELOW.
 7. COORDINATE MOUNTING HEIGHT OF FIXTURES WITH ARCHITECT.
 8. LOCATION OF FIXTURES SHOULD BE CENTERED WITHIN A CEILING, U.N.O.
 9. NEW AND EXISTING SPACES TO BE FULLY-EQUIPPED WITH A SPRINKLER SYSTEM.
 10. ASSUME GWB CEILING FINISH IN NEW STAIRS, UNDER EACH STRINGER. SEE DETAILS.
 11. ALL DROPPED-SOFFITS IN DORM ROOMS TO BE FRAMED W/ 2X4 LUMBER W/ GWB. CORRIDOR & BATHROOM CEILINGS TO BE SUSPENDED GWB ON 650 GRID.

FLOOR PLAN LEGEND

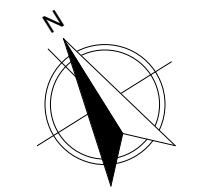
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[Symbol]	EXISTING CONCRETE WALL
[Symbol]	EXISTING MASONRY WALL
[Symbol]	NEW WALL/NEW WALL INFILL

CEILING TYPES

[Symbol]	GYPSUM WALL BOARD
[Symbol]	GYPSUM WALL BOARD (SLOPED)
[Symbol]	WOOD CEILING

LIGHTING SCHEDULE

Type Mark	Description
A3	3 INCH RECESSED CAN/WAFER DOWNLIGHT - LED
A4	4 INCH RECESSED CAN/WAFER DOWNLIGHT - LED
A6	6 INCH RECESSED CAN/WAFER DOWNLIGHT - LED
A8	8 INCH RECESSED CAN/WAFER DOWNLIGHT - LED
B	Interior Wall Luminaire
D	DECORATIVE PENDANT- LARGE
E	DECORATIVE PENDANT- SMALL
F	DECORATIVE PEDANT- MEDIUM
G	LED STRIP LIGHT AT BATH ROOMS
K	WALL MOUNTED SCONCE
ST	UTILITY LIGHT
ST1	UTILITY LIGHT



1 First Floor RCP
1/8" = 1'-0"



ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com

ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
802.989.7249

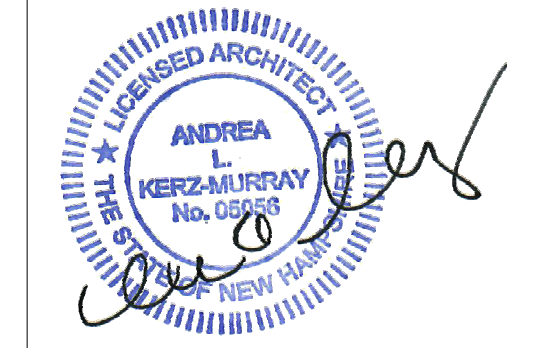
CIVIL ENGINEER
Nicholas Fiore, P.E.
Engineering Ventures
nikf@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER
Bob Neeld, P.E.
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER
Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvtllc.com
802.885.8091

ELECTRICAL ENGINEER
Claus Barstenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.barstenstein@esvtllc.com
802.885.8091

CONSTRUCTION MANAGER
Calvin Russell, Senior Project Manager
ReArch Company, Inc.
calvin@rearchcompany.com
802.863.8727



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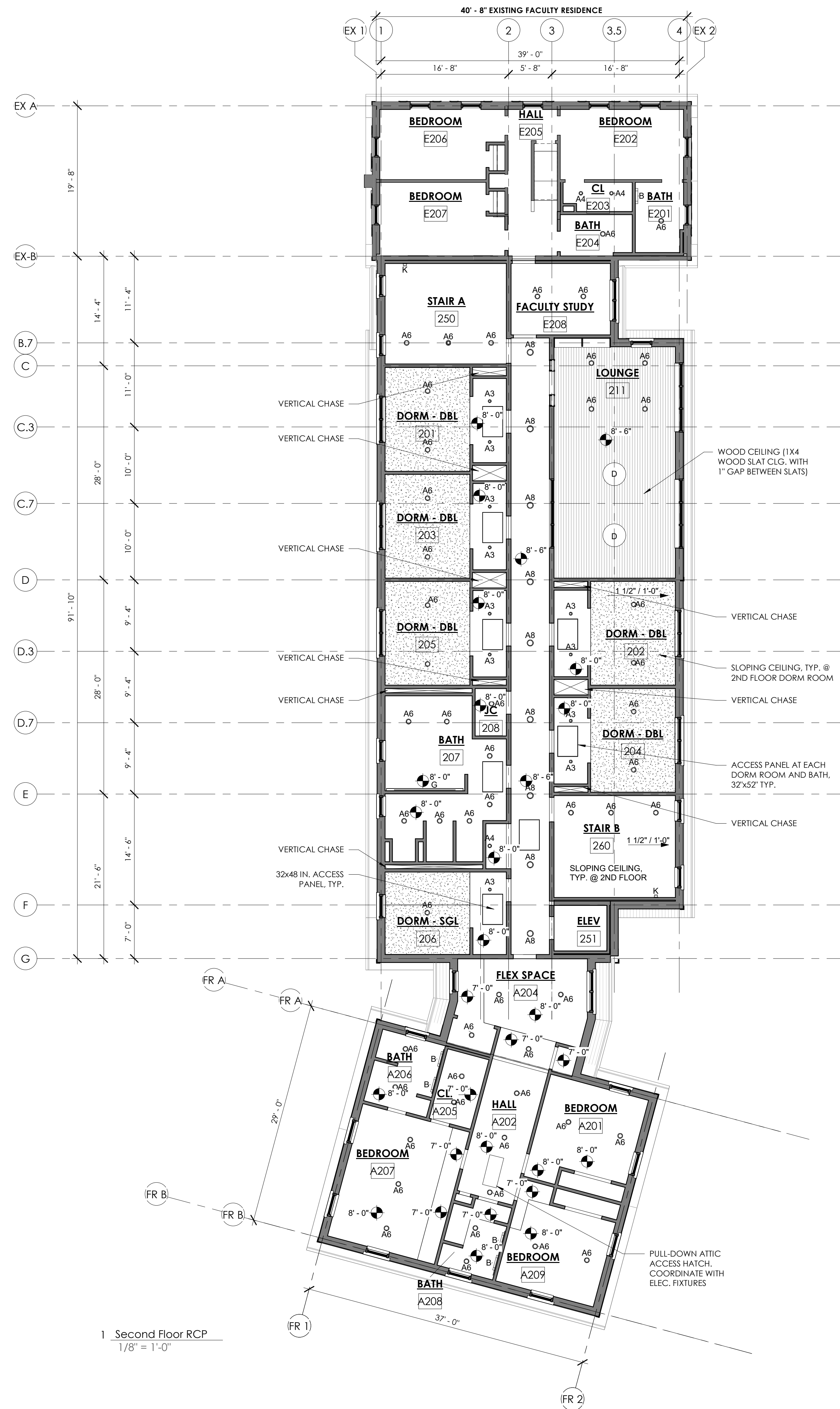
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KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

WELCH
FIRST FLOOR RCP

AW-3.2



1 Second Floor RCP
1/8" = 1'-0"

- RCP NOTES:**
1. CEILING HEIGHTS SHOWN ARE APPROXIMATE. TBD, VIF.
 2. SOFFIT WIDTHS SHOWN ARE TO OUTSIDE FACE-OF-FINISH. SEE DETAILS FOR CONSTRUCTION INFORMATION.
 3. COORDINATE WITH MECHANICAL DRAWINGS AS NEEDED FOR HVAC DEVICE LOCATIONS.
 4. SEE ELECTRICAL LIGHTING PLANS FOR QUANTITIES, LOCATIONS, AND SPECS FOR FIXTURES.
 5. ALL LIGHTING AND DEVICE QUANTITIES SHOULD BE PRICED FROM ELECTRICAL PLANS. LIGHTING ON ARCHITECTURAL PLANS ARE FOR LOCATIONAL REFERENCE ONLY.
 6. "TYPE E" - PENDANT FIXTURES SHALL BE CENTERED OVER THE KITCHEN ISLAND BELOW.
 7. COORDINATE MOUNTING HEIGHT OF FIXTURES WITH ARCHITECT.
 8. LOCATION OF FIXTURES SHOULD BE CENTERED WITHIN A CEILING, U.N.O.
 9. NEW AND EXISTING SPACES TO BE FULLY-EQUIPPED WITH A SPRINKLER SYSTEM.
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FLOOR PLAN LEGEND

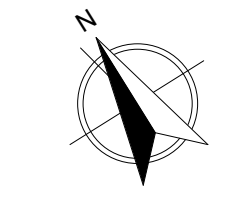
- EXISTING WALL
- EXISTING CONCRETE WALL
- EXISTING MASONRY WALL
- NEW WALL/NEW WALL INFILL

CEILING TYPES

- GYPSON WALL BOARD
- GYPSON WALL BOARD (SLOPED)
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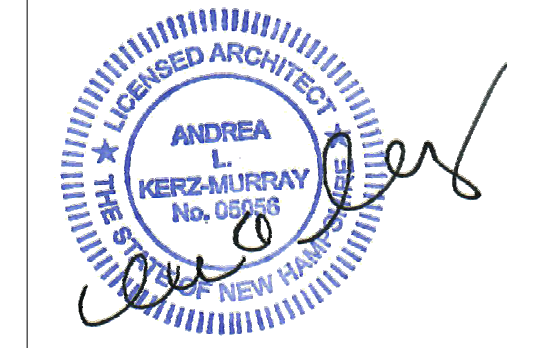
CIVIL ENGINEER
Nicholas Fiore, P.E.
Engineering Ventures
nikf@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER
Bob Neeld, P.E.
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER
Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvllc.com
802.885.8091

ELECTRICAL ENGINEER
Claus Barstenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.barstenstein@esvllc.com
802.885.8091

CONSTRUCTION MANAGER
Calvin Russell, Senior Project Manager
ReArch Company, Inc.
calvin@rearchcompany.com
802.863.8727



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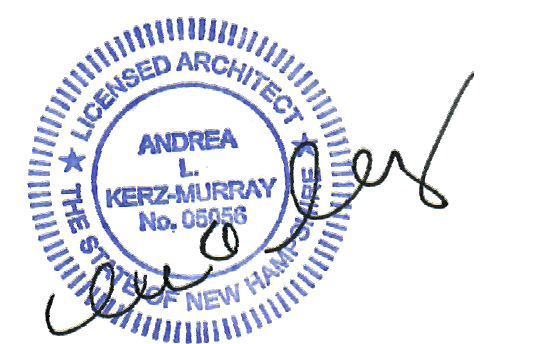
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KUA
KILTON/WELCH
DORMITORIES

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WELCH
SECOND FLOOR
RCP

AW-3.3



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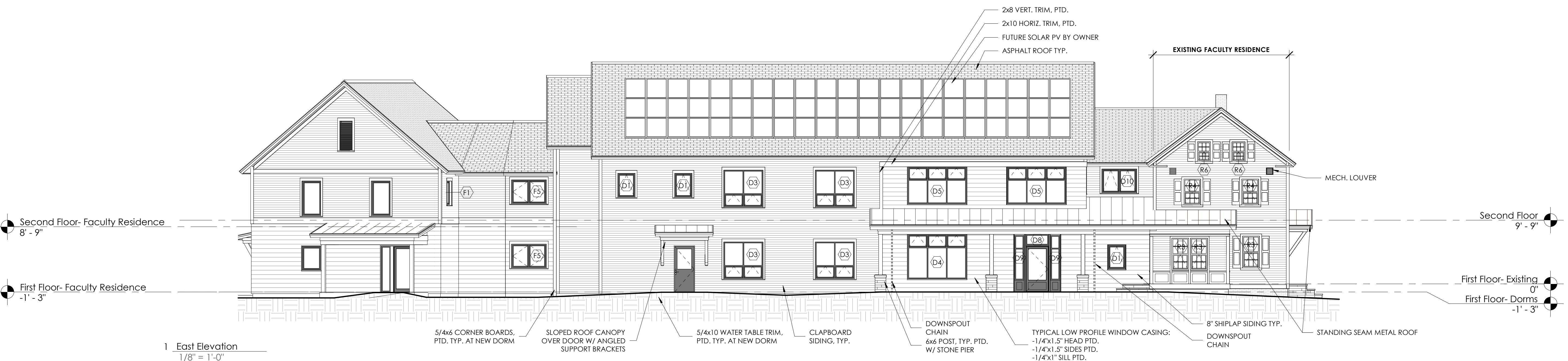
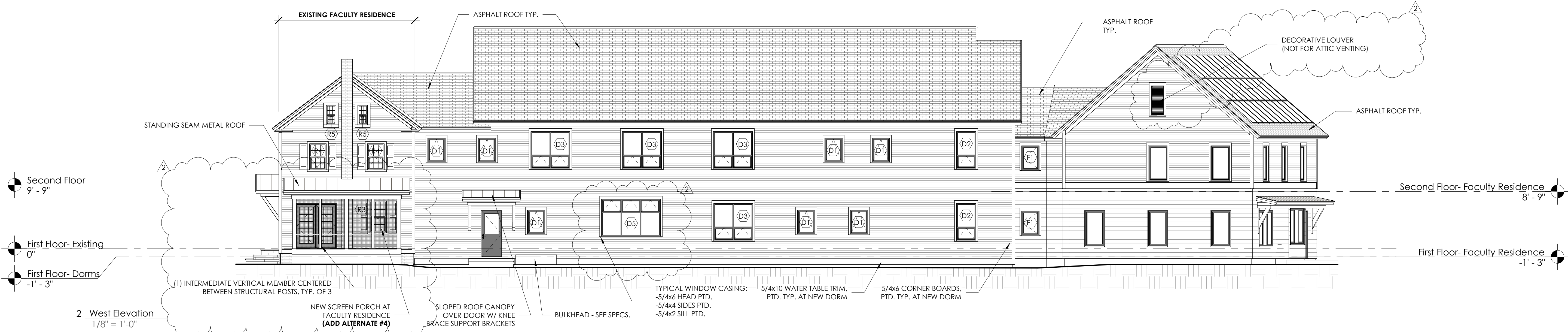
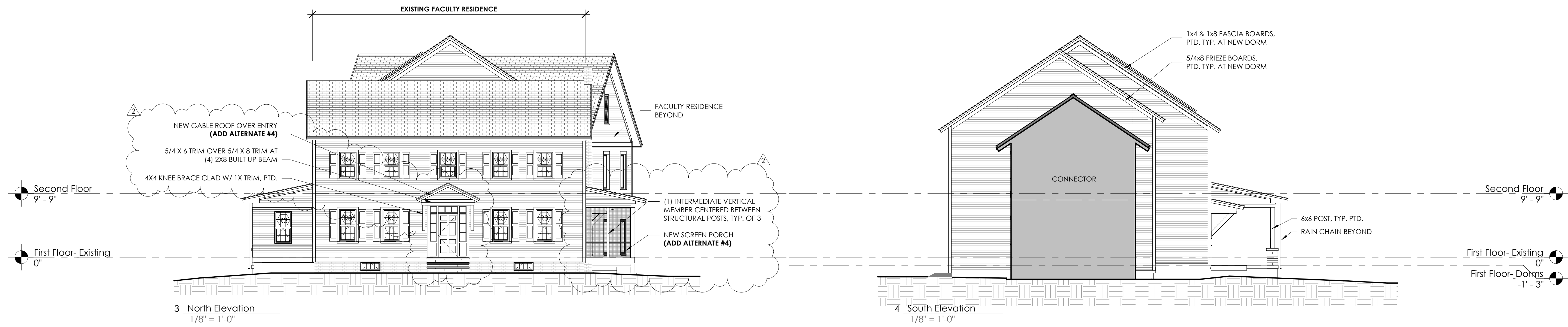
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KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

WELCH
DORM
ELEVATIONS

AW-4.1



CIVIL ENGINEER

Nicholas Fiore, P.E.
Engineering Ventures
nikf@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E.
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER

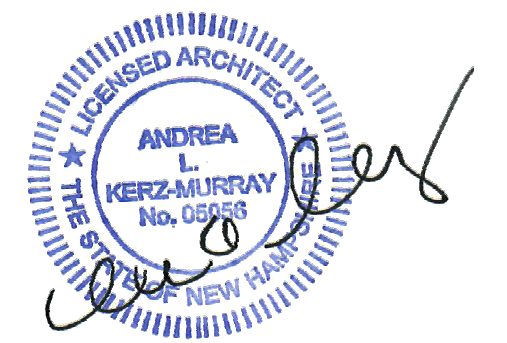
Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvtllc.com
802.885.8091

ELECTRICAL ENGINEER

Claus Barstenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.barstenstein@esvtllc.com
802.885.8091

CONSTRUCTION MANAGER

Calvin Russell, Senior Project Manager
REArch Company, Inc.
calvin@rearchcompany.com
802.863.8727



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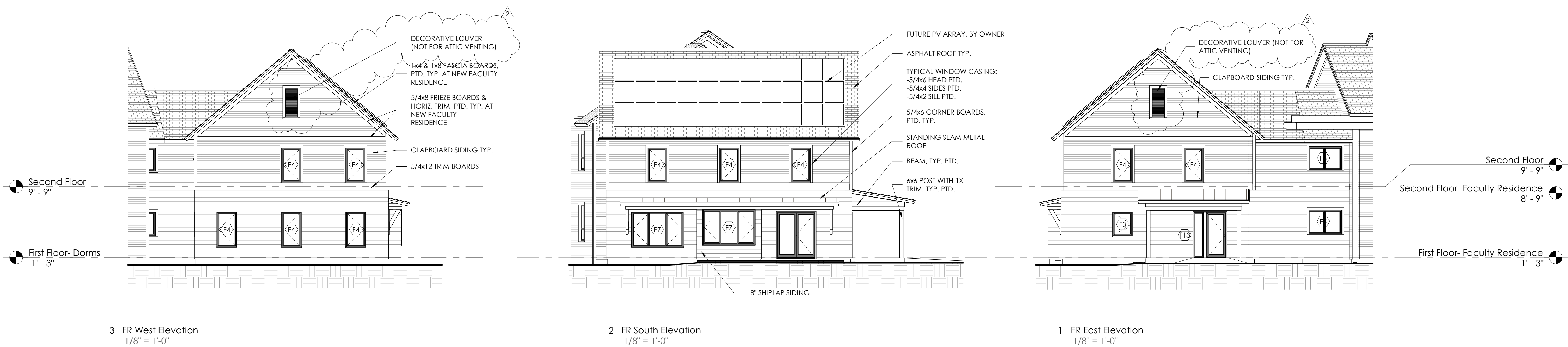
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**KUA
KILTON/WELCH
DORMITORIES**

Main Street,
Meriden, NH 03770

**WELCH
FACULTY
RESIDENCE
ELEVATIONS**

AW-4.2



CIVIL ENGINEER

Nicholas Fiore, P.E.
Engineering Ventures
nikf@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E.
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER

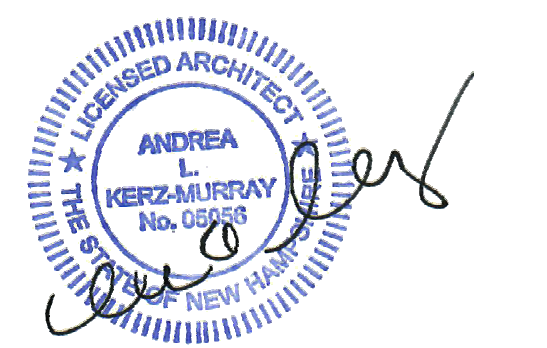
Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvllc.com
802.885.8091

ELECTRICAL ENGINEER

Claus Barstenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.barstenstein@esvllc.com
802.885.8091

CONSTRUCTION MANAGER

Calvin Russell, Senior Project Manager
ReArch Company, Inc.
calvin@rearchcompany.com
802.863.8727



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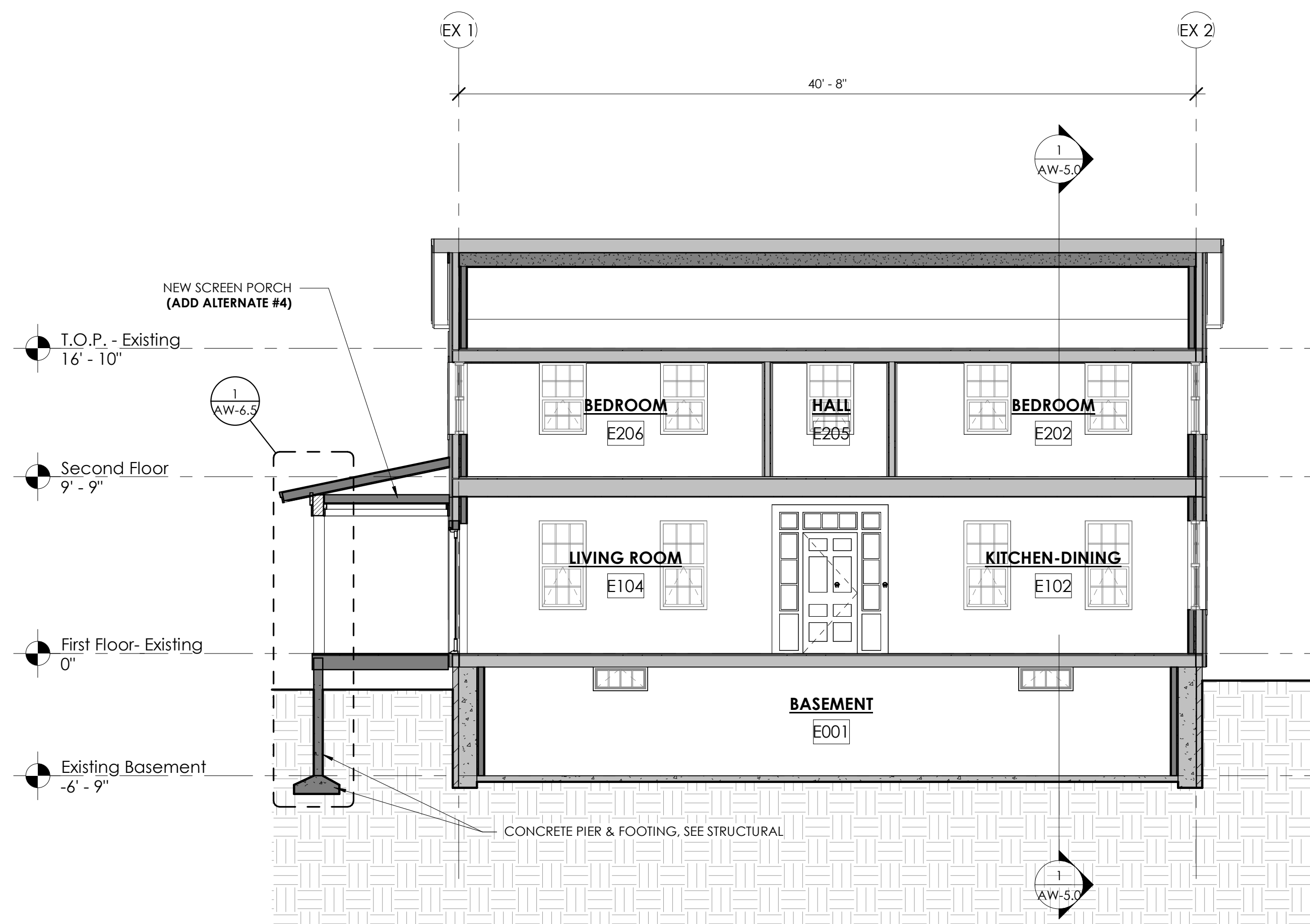
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**KUA
KILTON/WELCH
DORMITORIES**

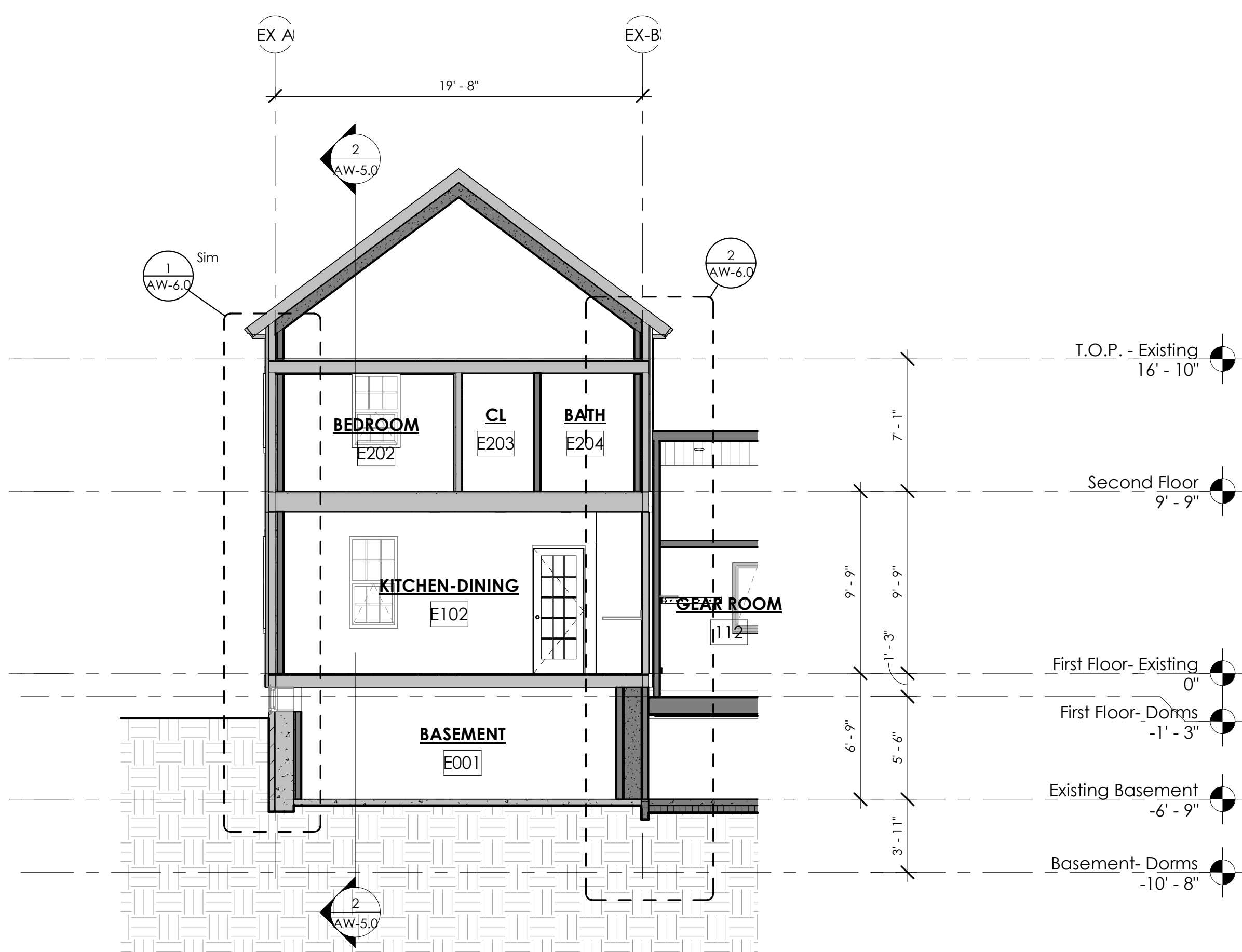
Main Street,
Meriden, NH 03770

**WELCH
BUILDING
SECTIONS AT
EXISTING**

AW-5.0



2 E-W Section Through Existing Building
3/16" = 1'-0"



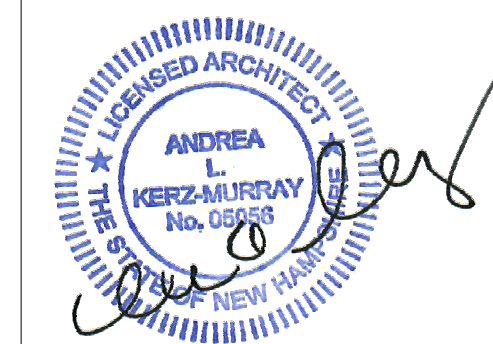
1 N-S Section Through Existing Building
3/16" = 1'-0"

SECTION GENERAL NOTES:

1. VERIFY ALL DIMENSIONS IN-FIELD. CONTACT ARCHITECT IF MAJOR DISCREPANCIES ARISE.
2. SEE AW-0.5 FOR ASSEMBLY TYPE INFORMATION.
3. SEE STRUCTURAL DRAWINGS FOR SPECIFIC INFO ON STRUCTURAL ELEMENTS.

FLOOR PLAN LEGEND

- EXISTING WALL
- EXISTING CONCRETE WALL
- EXISTING MASONRY WALL
- NEW WALL/NEW WALL INFILL



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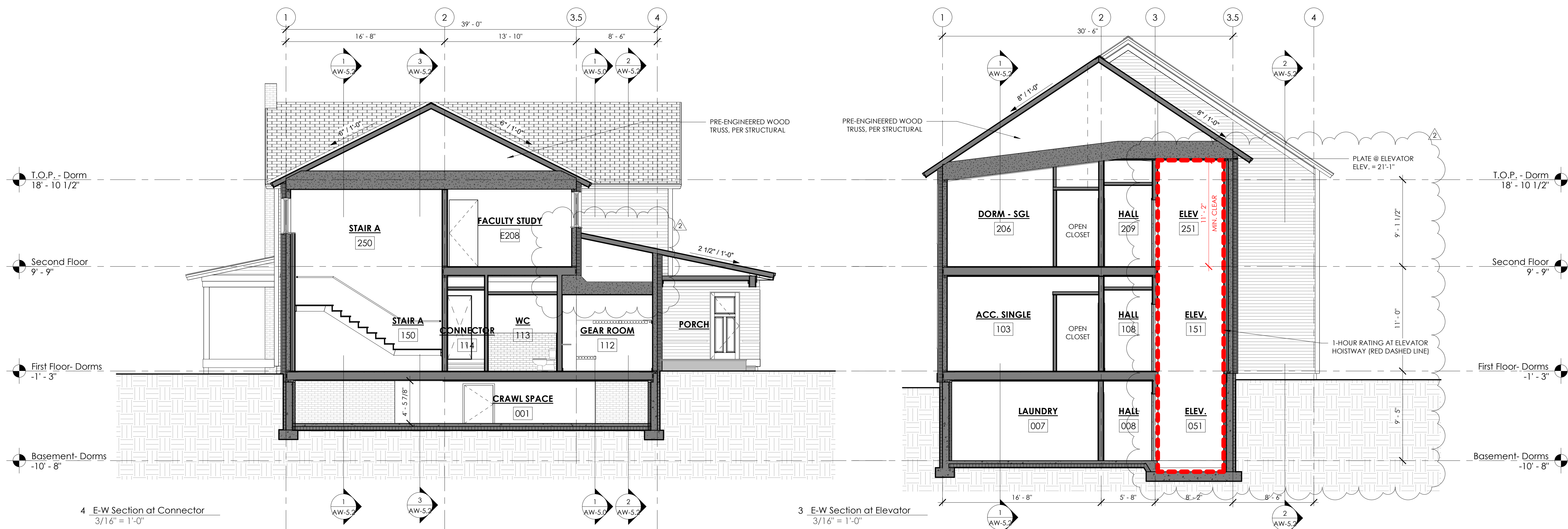
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KUA
KILTON/WELCH
DORMITORIES

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WELCH
BUILDING
SECTIONS AT NEW

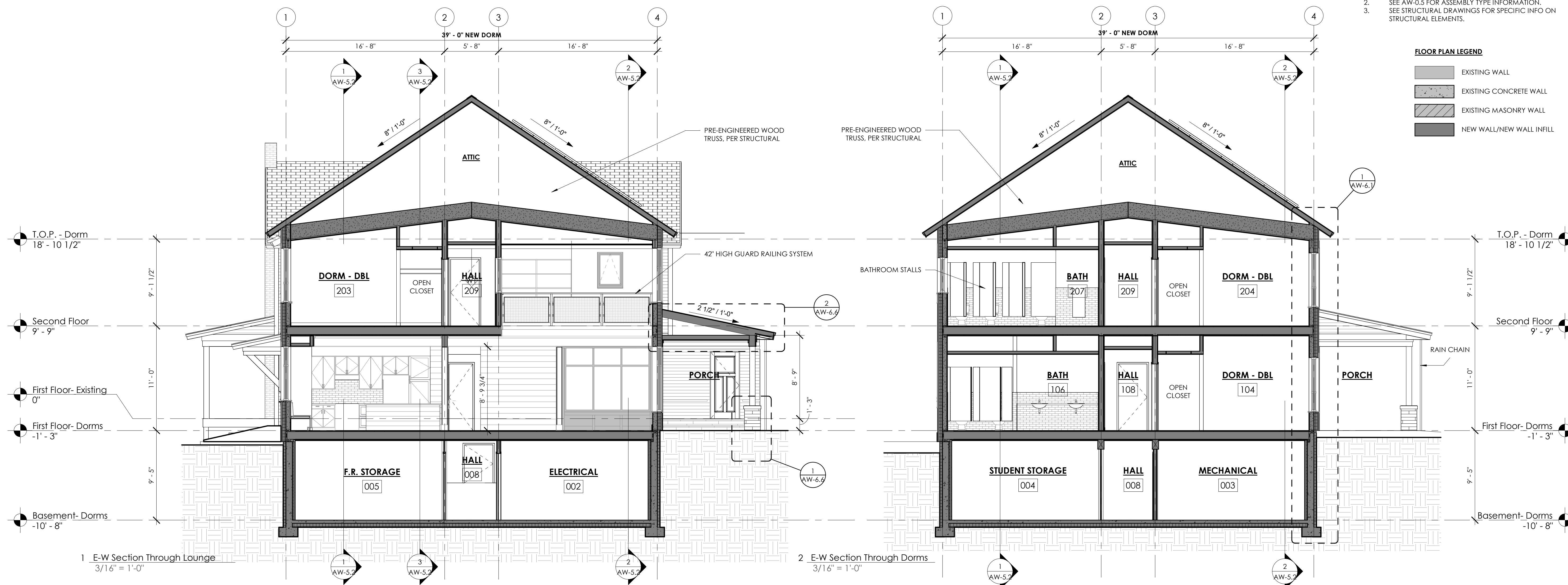
AW-5.1

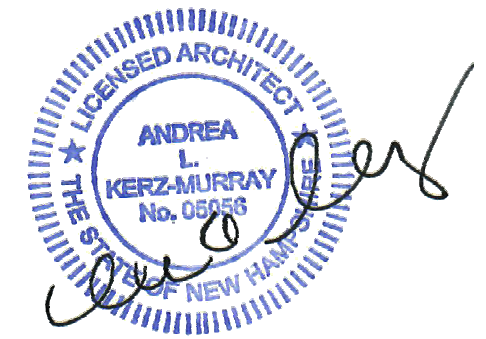


SECTION GENERAL NOTES:
1. VERIFY ALL DIMENSIONS IN-FIELD. CONTACT ARCHITECT IF MAJOR DISCREPANCIES ARISE.
2. SEE AW-0.5 FOR ASSEMBLY TYPE INFORMATION.
3. SEE STRUCTURAL DRAWINGS FOR SPECIFIC INFO ON STRUCTURAL ELEMENTS.

FLOOR PLAN LEGEND

[Pattern]	EXISTING WALL
[Pattern]	EXISTING CONCRETE WALL
[Pattern]	EXISTING MASONRY WALL
[Pattern]	NEW WALL/NEW WALL INFILL





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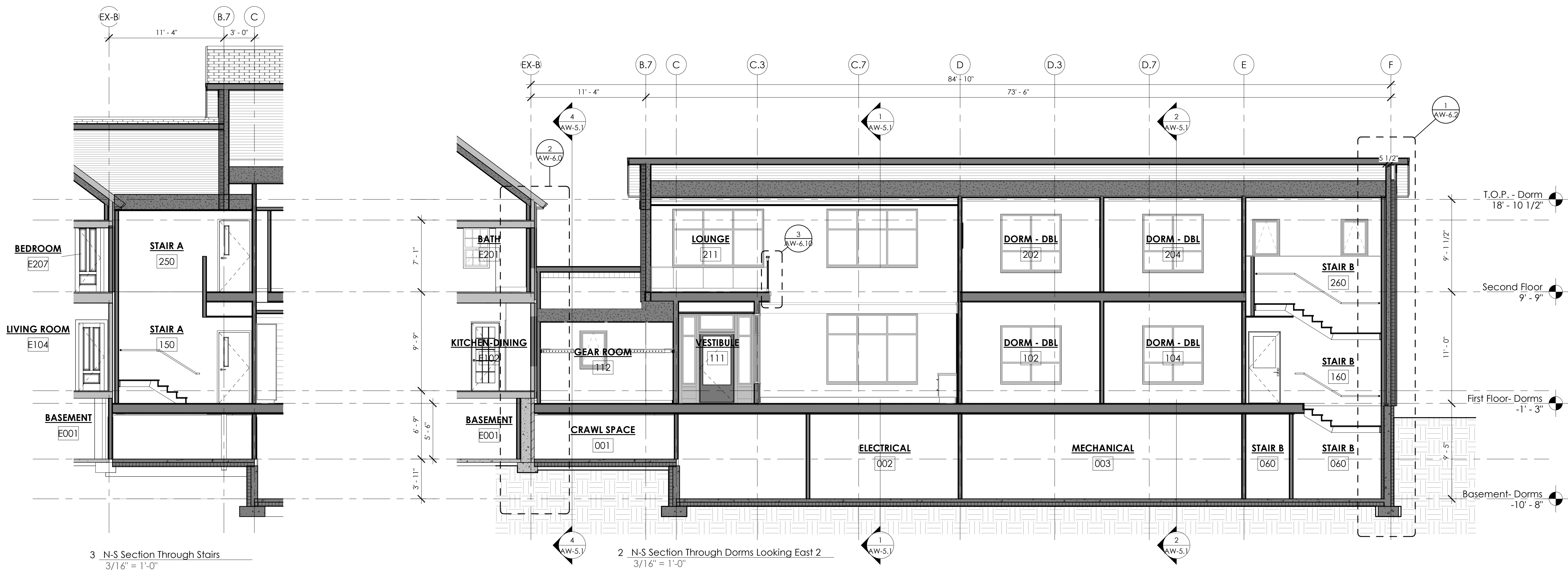
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KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

WELCH
BUILDING
SECTIONS AT NEW

AW-5.2



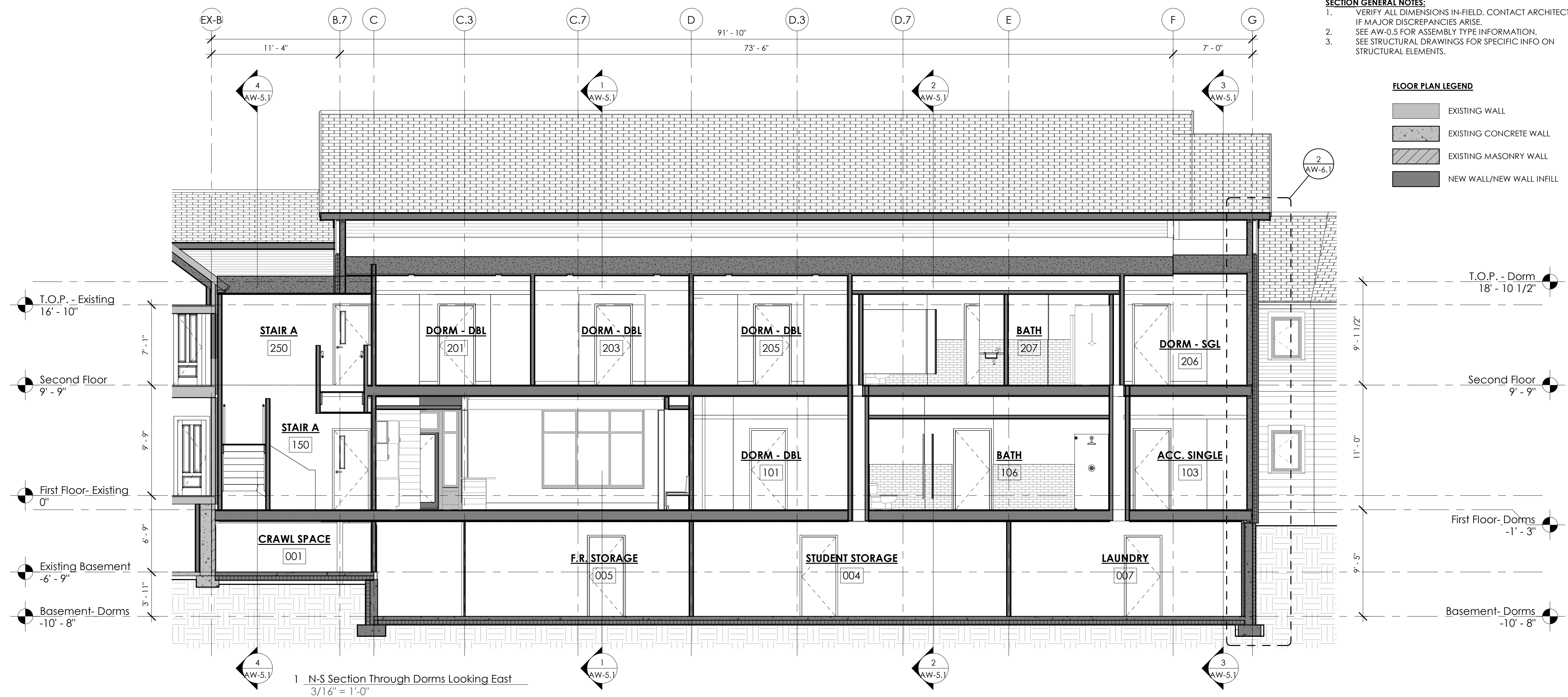
3 N-S Section Through Stairs
3/16" = 1'-0"

2 N-S Section Through Dorms Looking East 2
3/16" = 1'-0"

- SECTION GENERAL NOTES:**
1. VERIFY ALL DIMENSIONS IN-FIELD. CONTACT ARCHITECT IF MAJOR DISCREPANCIES ARISE.
 2. SEE AW-0.5 FOR ASSEMBLY TYPE INFORMATION.
 3. SEE STRUCTURAL DRAWINGS FOR SPECIFIC INFO ON STRUCTURAL ELEMENTS.

FLOOR PLAN LEGEND

[Pattern]	EXISTING WALL
[Pattern]	EXISTING CONCRETE WALL
[Pattern]	EXISTING MASONRY WALL
[Pattern]	NEW WALL/NEW WALL INFILL



1 N-S Section Through Dorms Looking East
3/16" = 1'-0"

CIVIL ENGINEER

Nicholas Fiore, P.E.
Engineering Ventures
nikf@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E.
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER

Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvllc.com
802.885.8091

ELECTRICAL ENGINEER

Claus Barfenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.barfenstein@esvllc.com
802.885.8091

CONSTRUCTION MANAGER

Calvin Russell, Senior Project Manager
ReArch Company, Inc.
calvin@rearchcompany.com
802.863.8727



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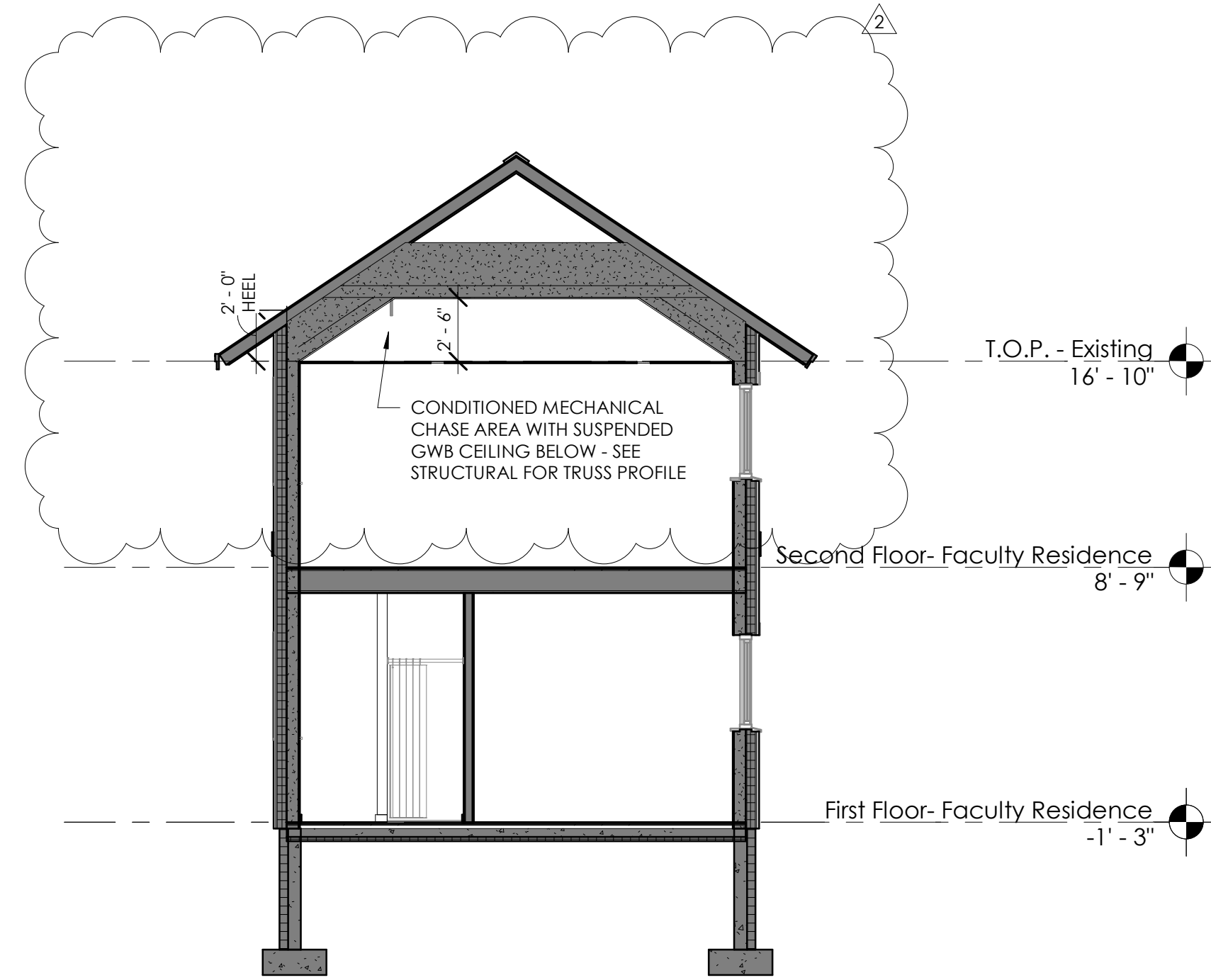
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**KUA
KILTON/WELCH
DORMITORIES**

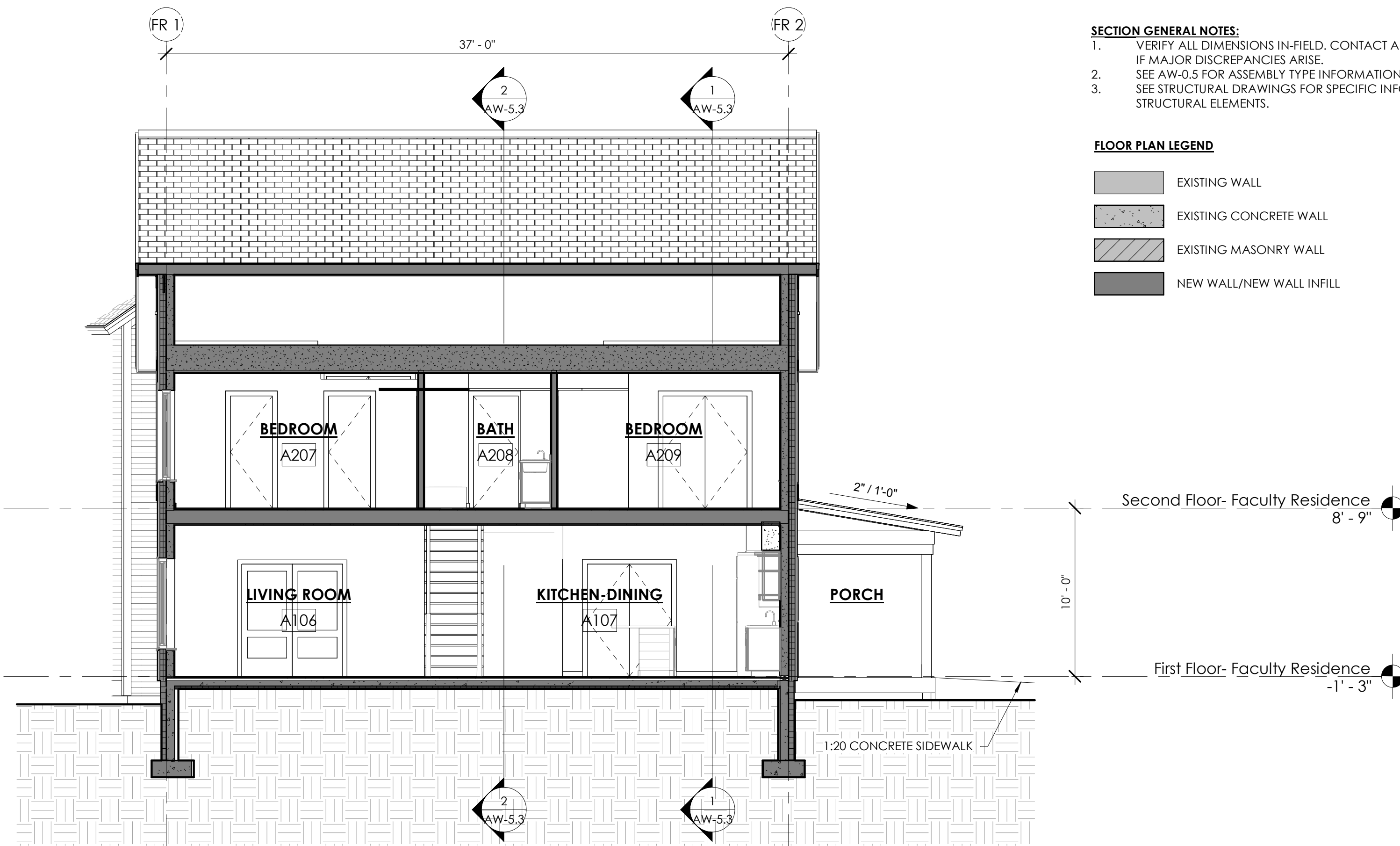
Main Street,
Meriden, NH 03770

**WELCH
BUILDING
SECTIONS AT NEW**

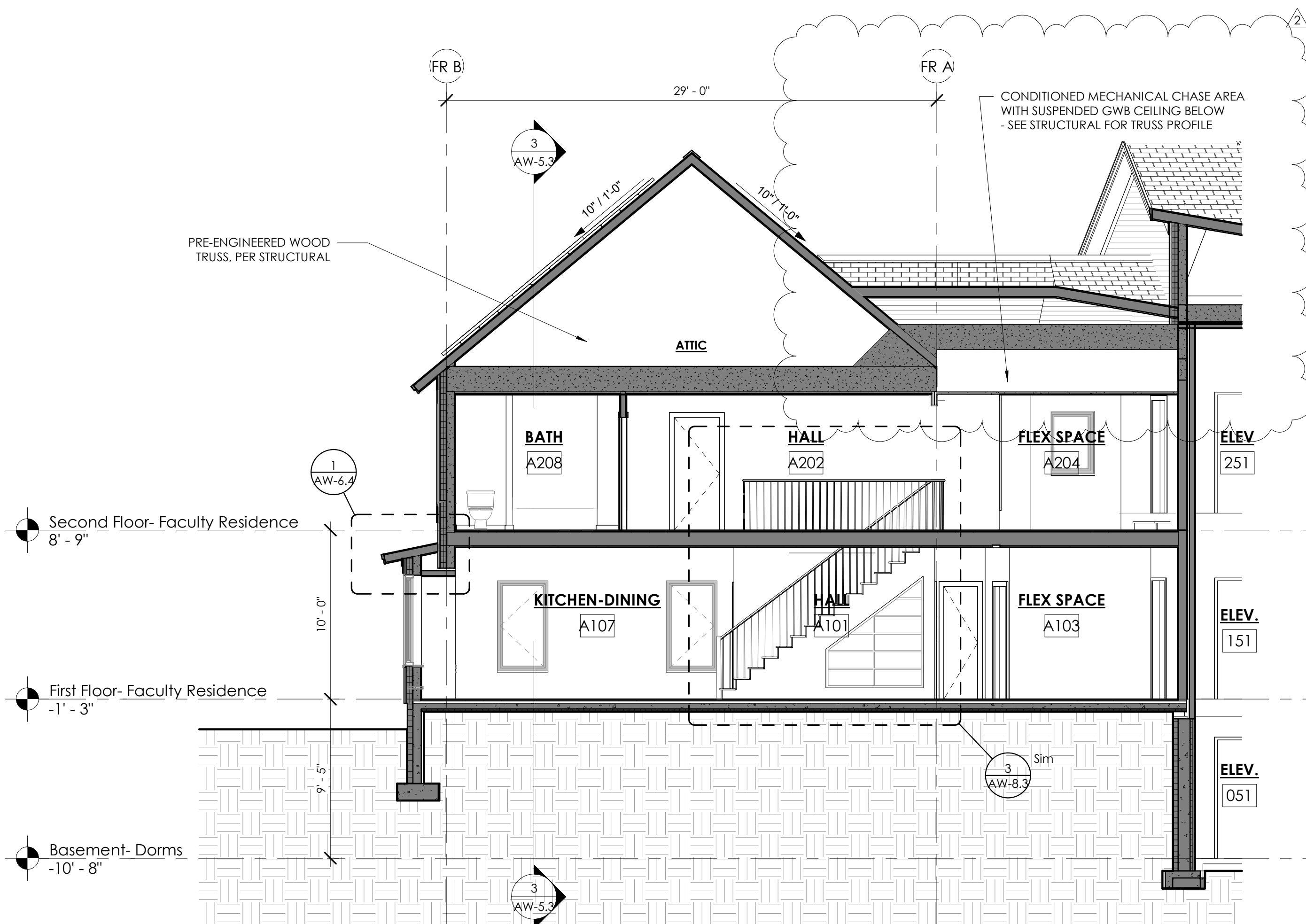
AW-5.3



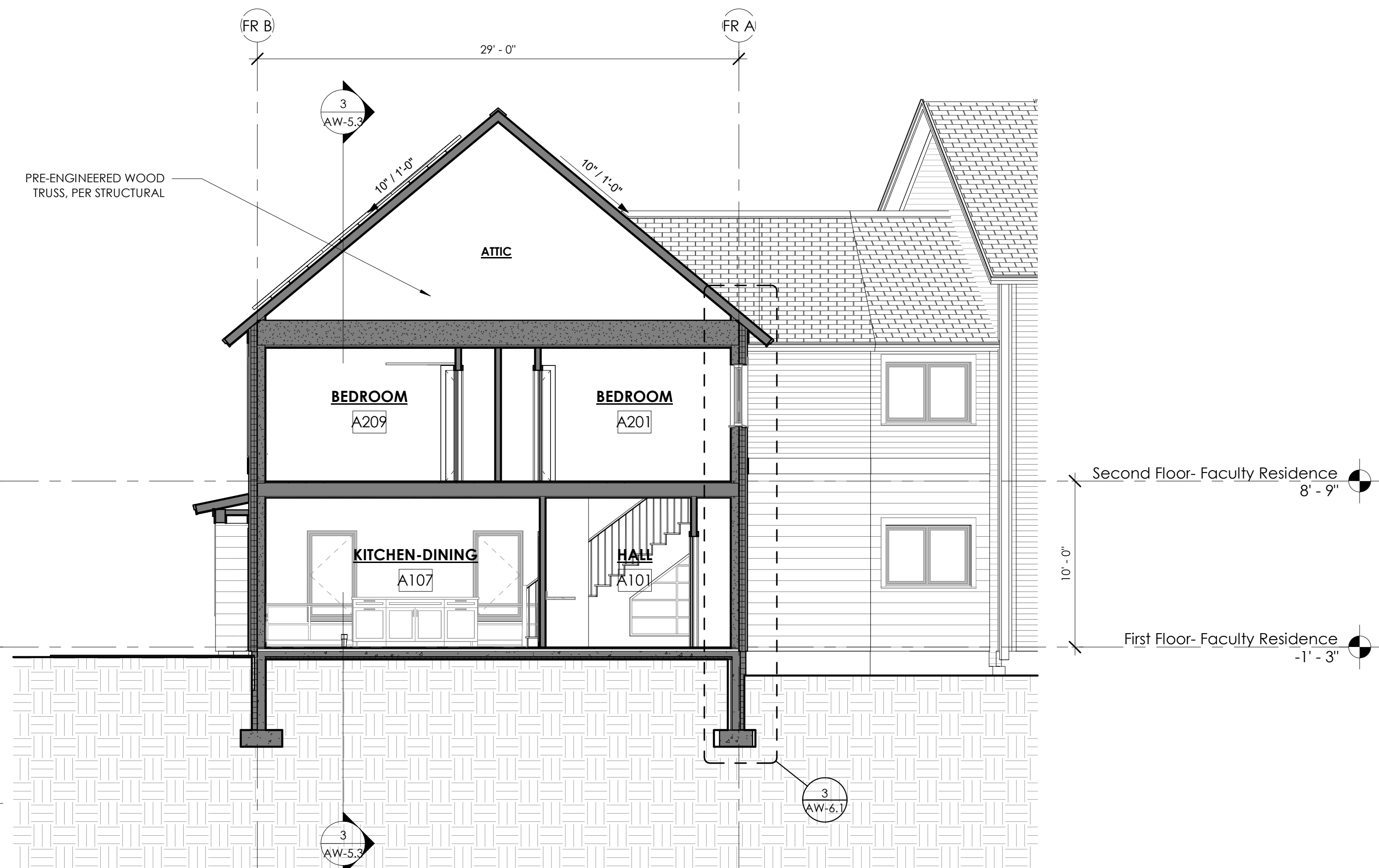
4 Building Section at Connector
3/16" = 1'-0"



3 E-W Section at Faculty Residence
3/16" = 1'-0"



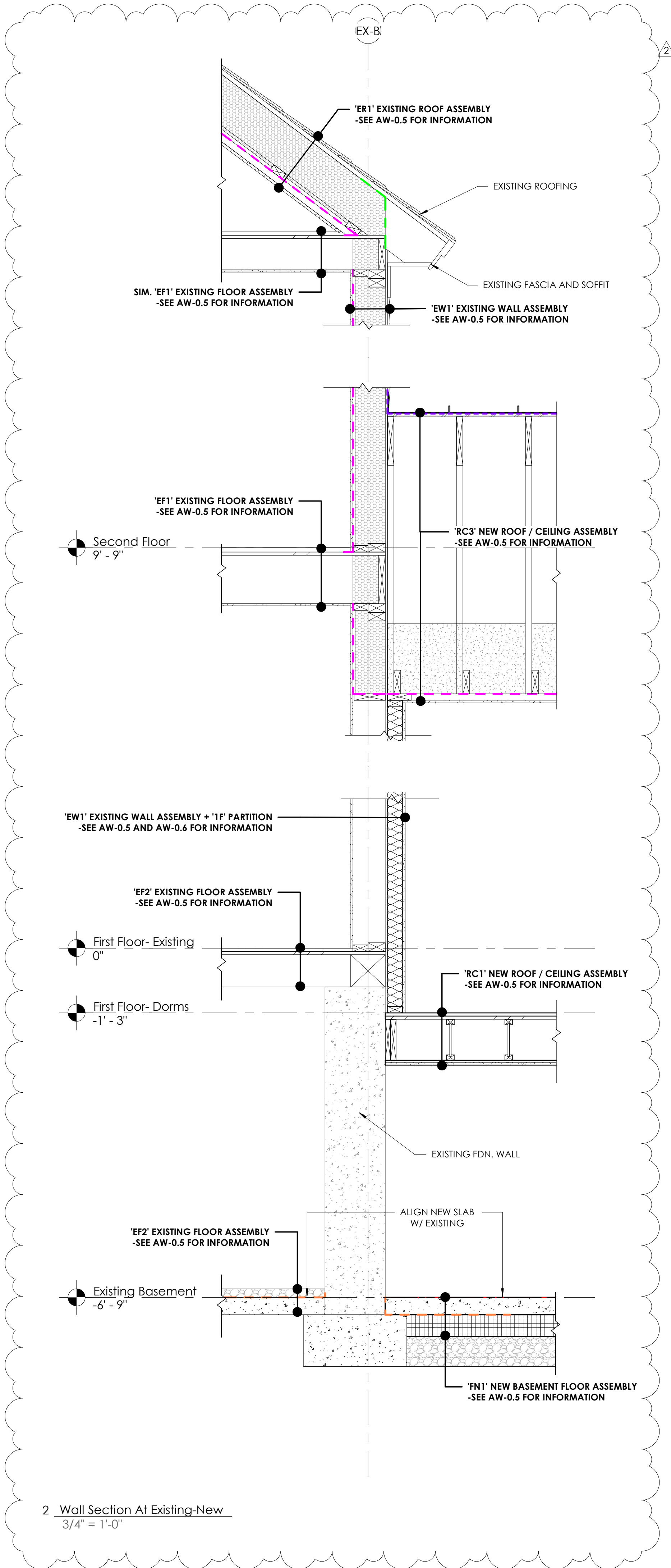
2 N-S Section Through Faculty Residence and Connector
3/16" = 1'-0"



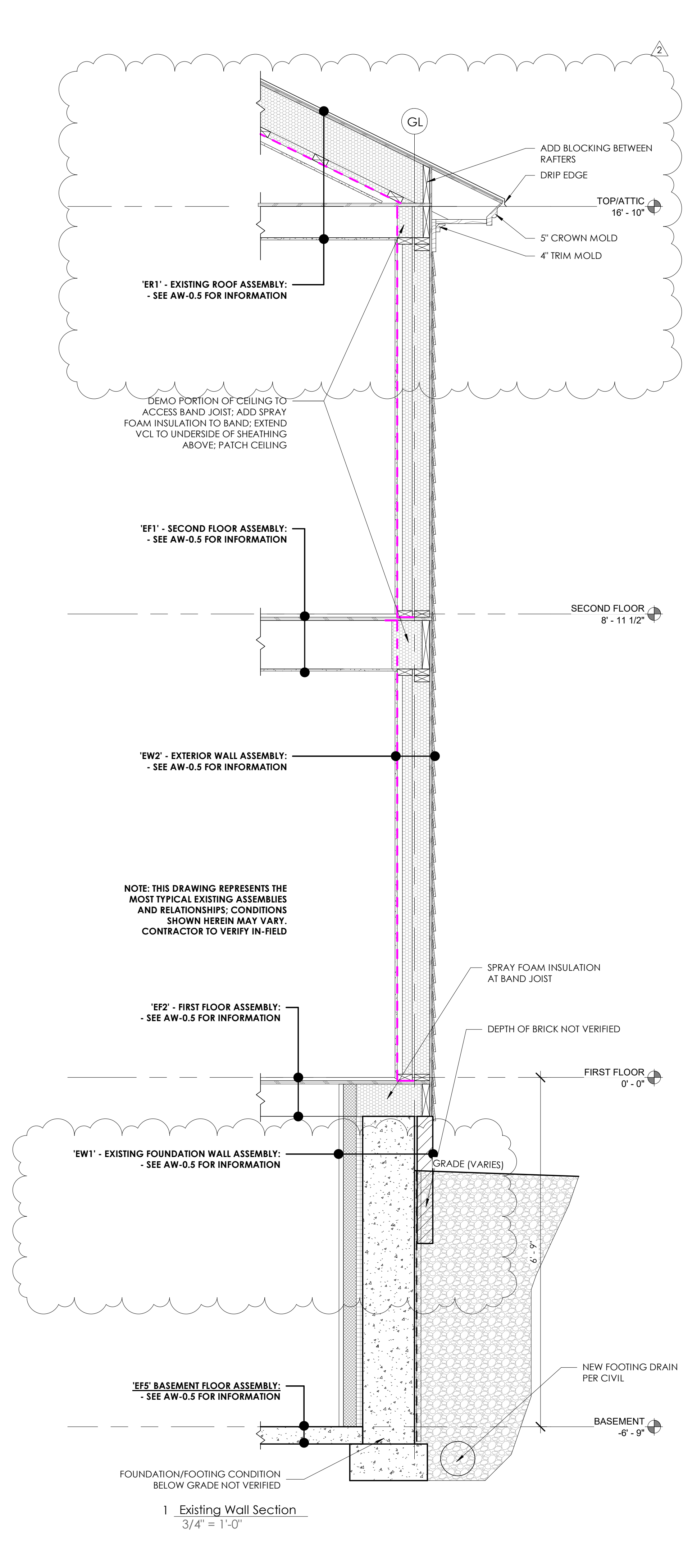
1 N-S Section Through Faculty Residence
3/16" = 1'-0"

SECTION DETAILS AND MATERIALS LEGEND

	WEATHER RESISTIVE BARRIER (WRB)/ DRAINAGE PLANE		STONE FILL
	VAPOR CONTROL LAYER (VCL)		EARTH
	AIR CONTROL LAYER (ACL)		CONCRETE
	UNDER SLAB VAPOR CONTROL LAYER		WOOD FINISH GRADE
	TAPE OR SELF ADHERING WATERPROOFING MEMBRANE (SAWM) AT EDGES/ JOINTS/ INTERSECTIONS		DIMENSIONAL LUMBER
	CLOSED CELL SPRAY FOAM INSULATION		BLOCKING
	RIGID FOAM INSULATION		PLYWOOD
	FILL INSULATION		
	RIGID MINERAL WOOL INSULATION		
	BATT INSULATION		



2 Wall Section At Existing-New
3/4" = 1'-0"



1 Existing Wall Section
3/4" = 1'-0"



ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com
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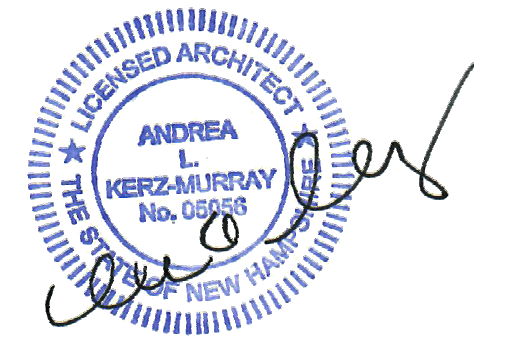
CIVIL ENGINEER
Nicholas Fiore, P.E.
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STRUCTURAL ENGINEER
Bob Need, P.E.
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bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER
Daniel Dupras, P.E.
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802.885.8091

ELECTRICAL ENGINEER
Claus Barstenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.barstenstein@esvtllc.com
802.885.8091

CONSTRUCTION MANAGER
Calvin Russell, Senior Project Manager
ReArch Company, Inc.
calvin@rearchcompany.com
802.863.8727



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KUA
KILTON/WELCH
DORMITORIES

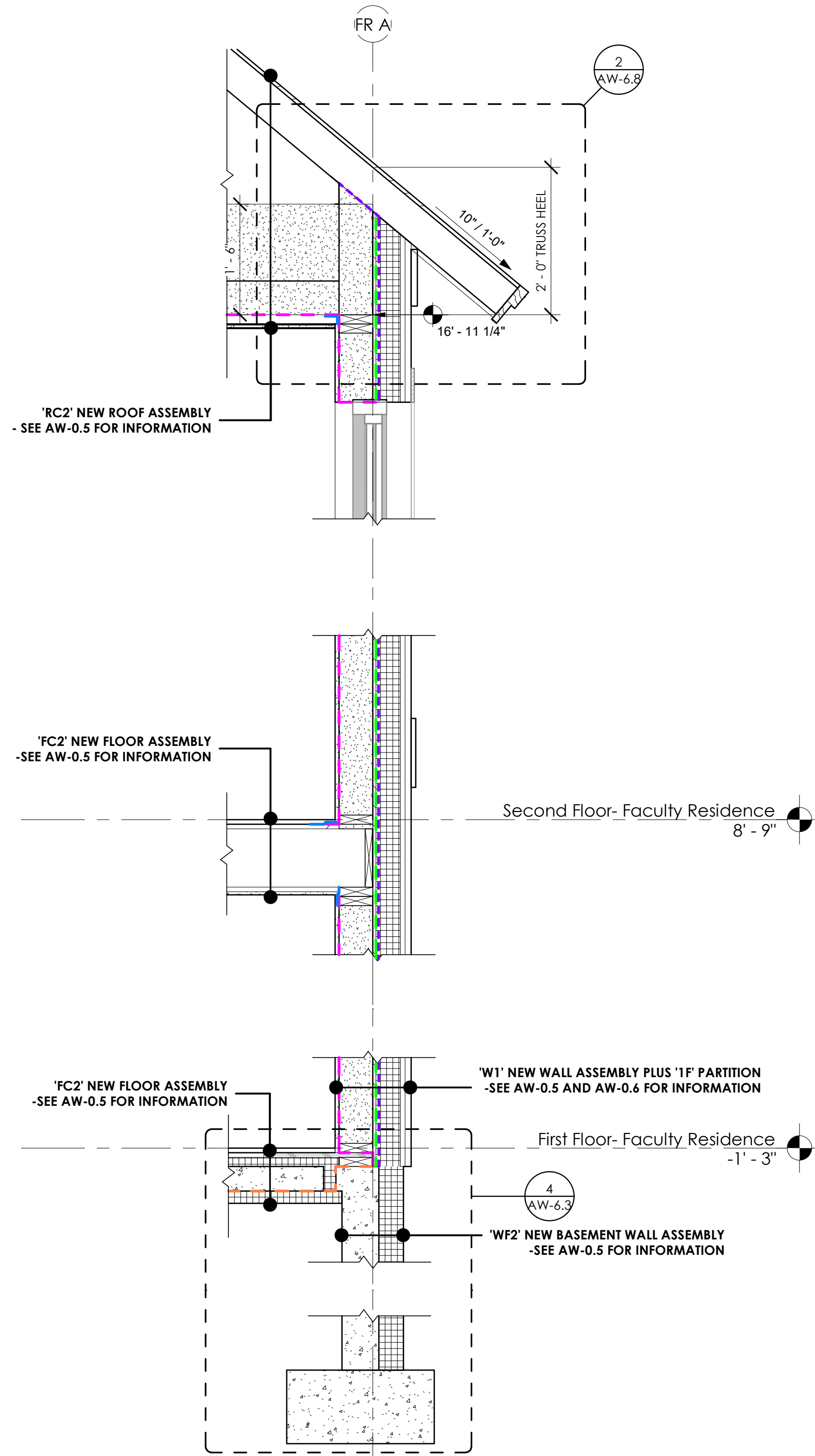
Main Street,
Meriden, NH 03770

WELCH
EXTERIOR WALL
SECTIONS AT
EXISTING

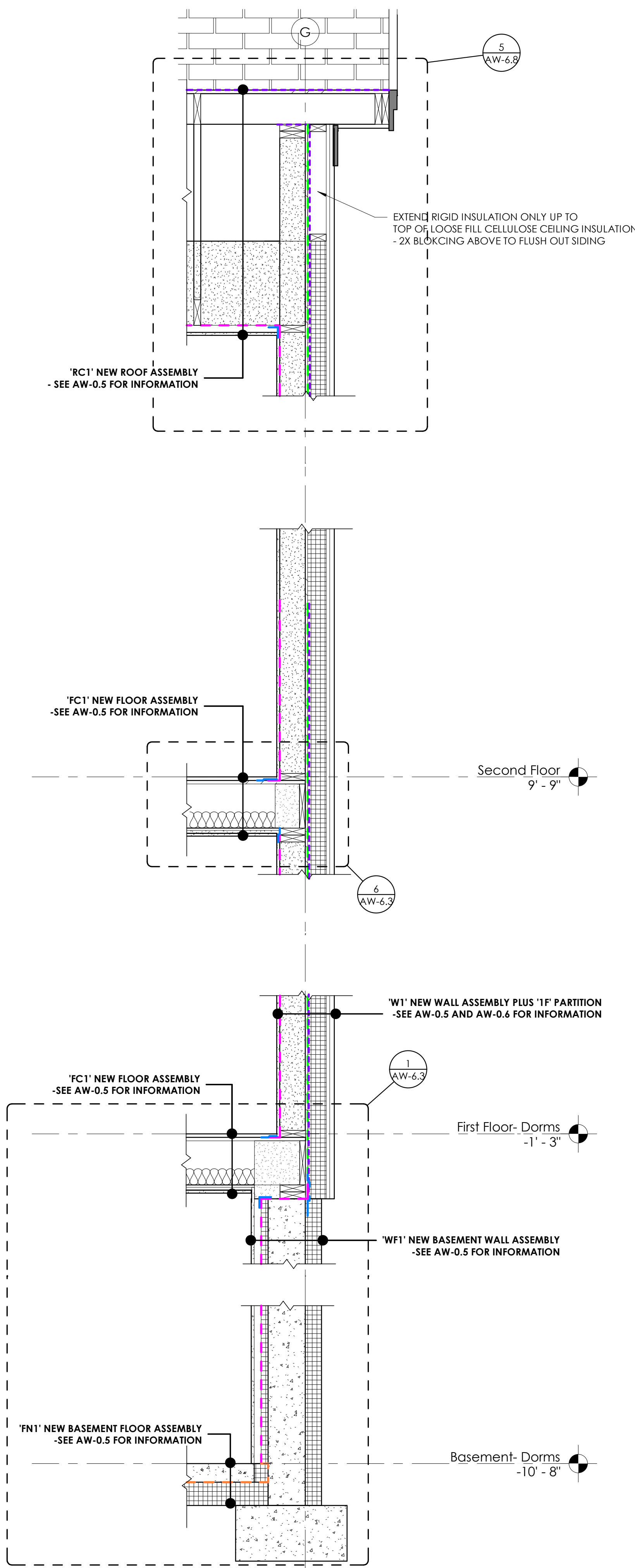
AW-6.0

SECTION DETAILS AND MATERIALS LEGEND

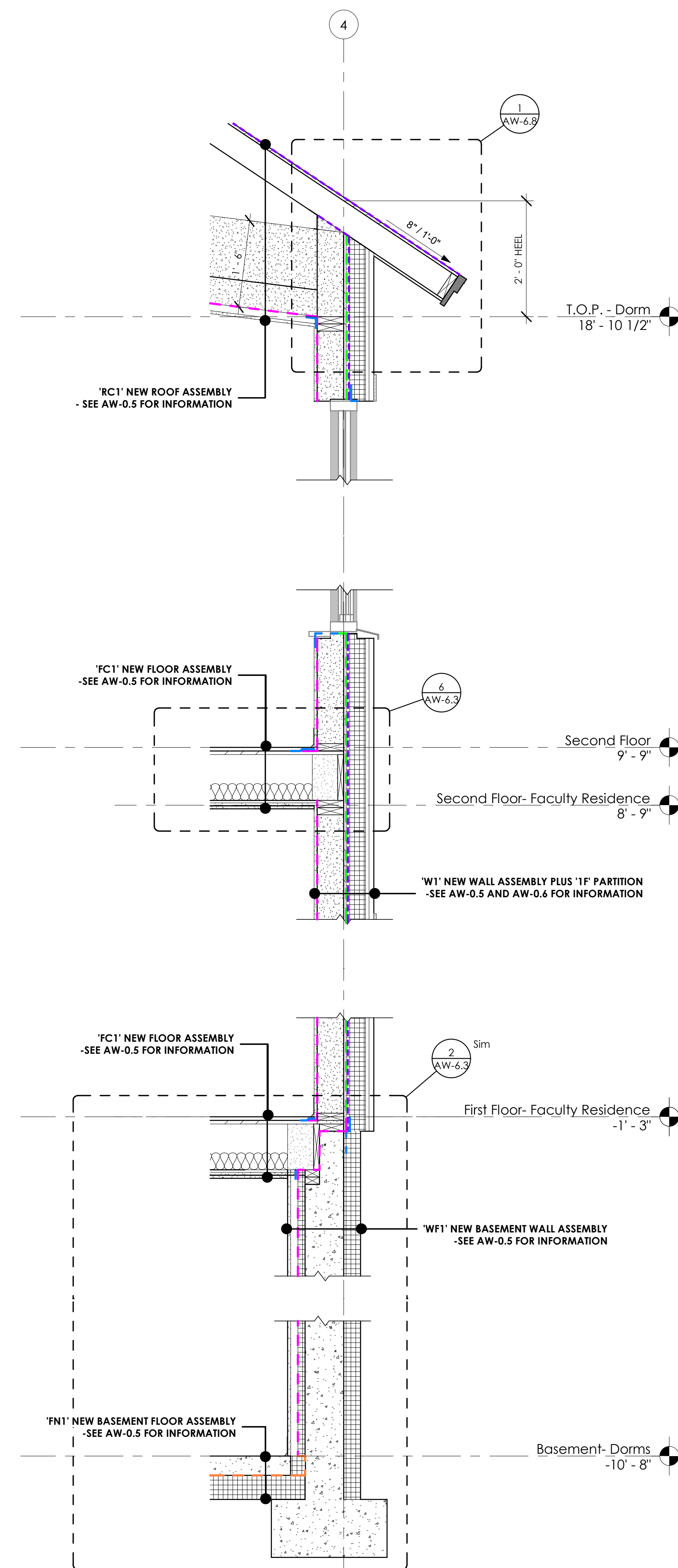
	WEATHER RESISTIVE BARRIER (WRB)/ DRAINAGE PLANE		STONE FILL
	VAPOR CONTROL LAYER (VCL)		EARTH
	AIR CONTROL LAYER (ACL)		CONCRETE
	UNDER SLAB VAPOR CONTROL LAYER		WOOD FINISH GRADE
	TAPE OR SELF ADHERING WATERPROOFING MEMBRANE (SAWM) AT EDGES/ JOINTS/ INTERSECTIONS		DIMENSIONAL LUMBER
	CLOSED CELL SPRAY FOAM INSULATION		BLOCKING
	RIGID FOAM INSULATION		PLYWOOD
	FILL INSULATION		
	RIGID MINERAL WOOL INSULATION		
	BATT INSULATION		



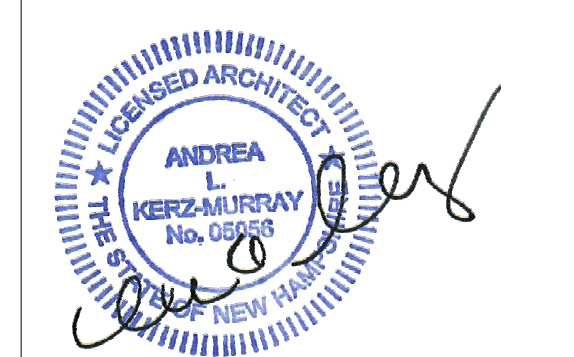
3 Exterior Wall Section- Faculty Residence
3/4" = 1'-0"



2 Typical Exterior Wall Section- Rake
3/4" = 1'-0"



1 Typical Exterior Wall Section- Eave
3/4" = 1'-0"



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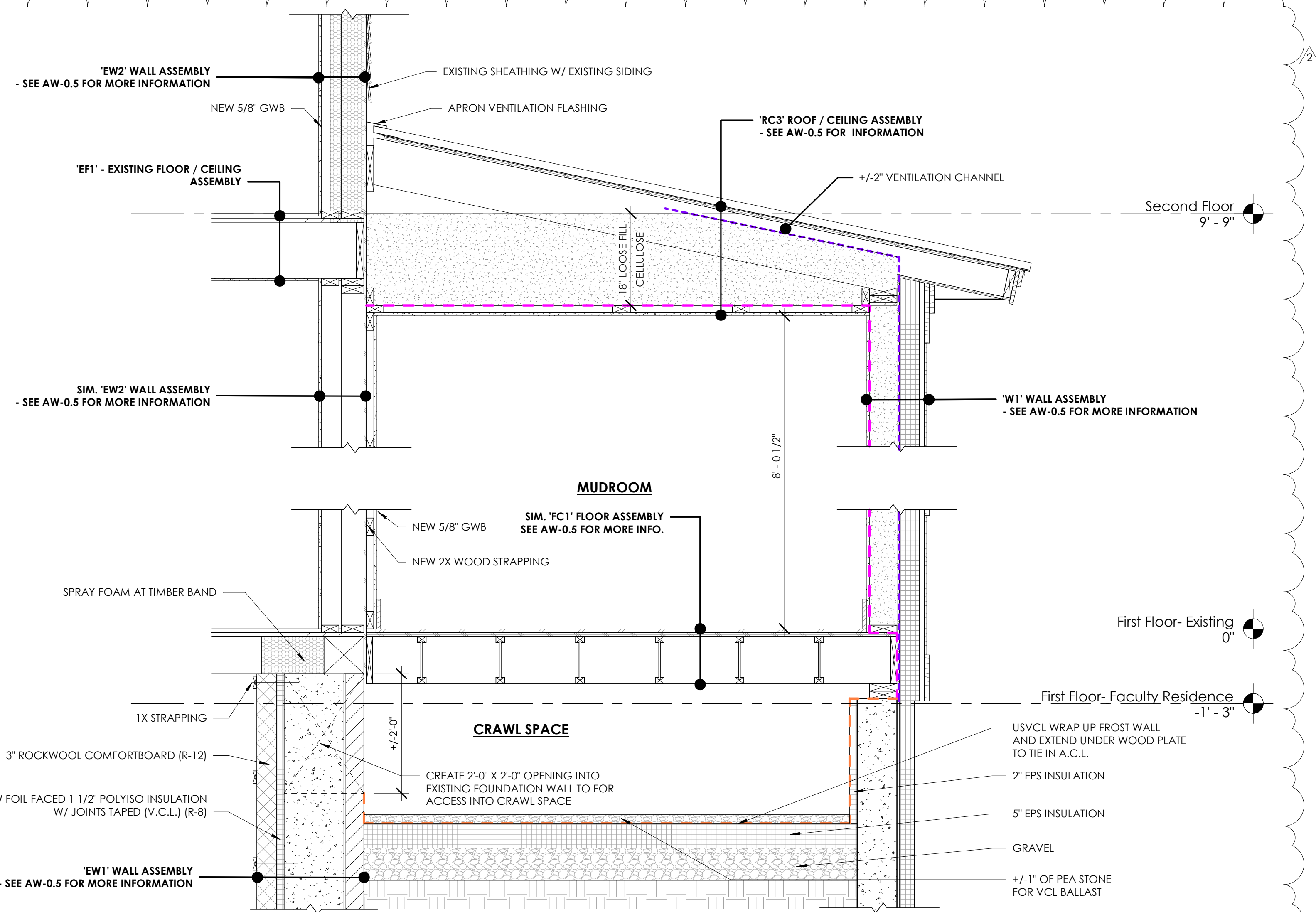
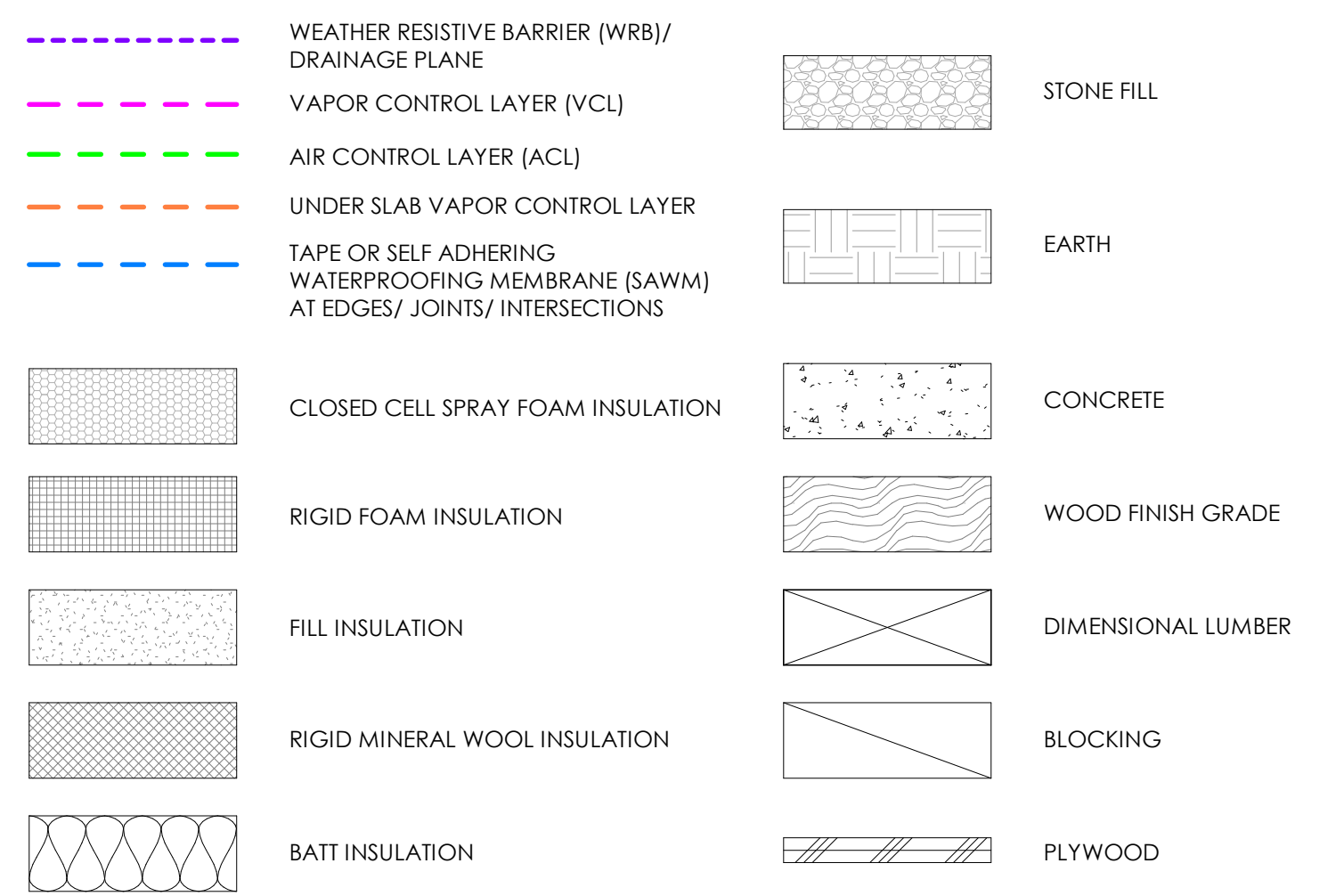
KUA
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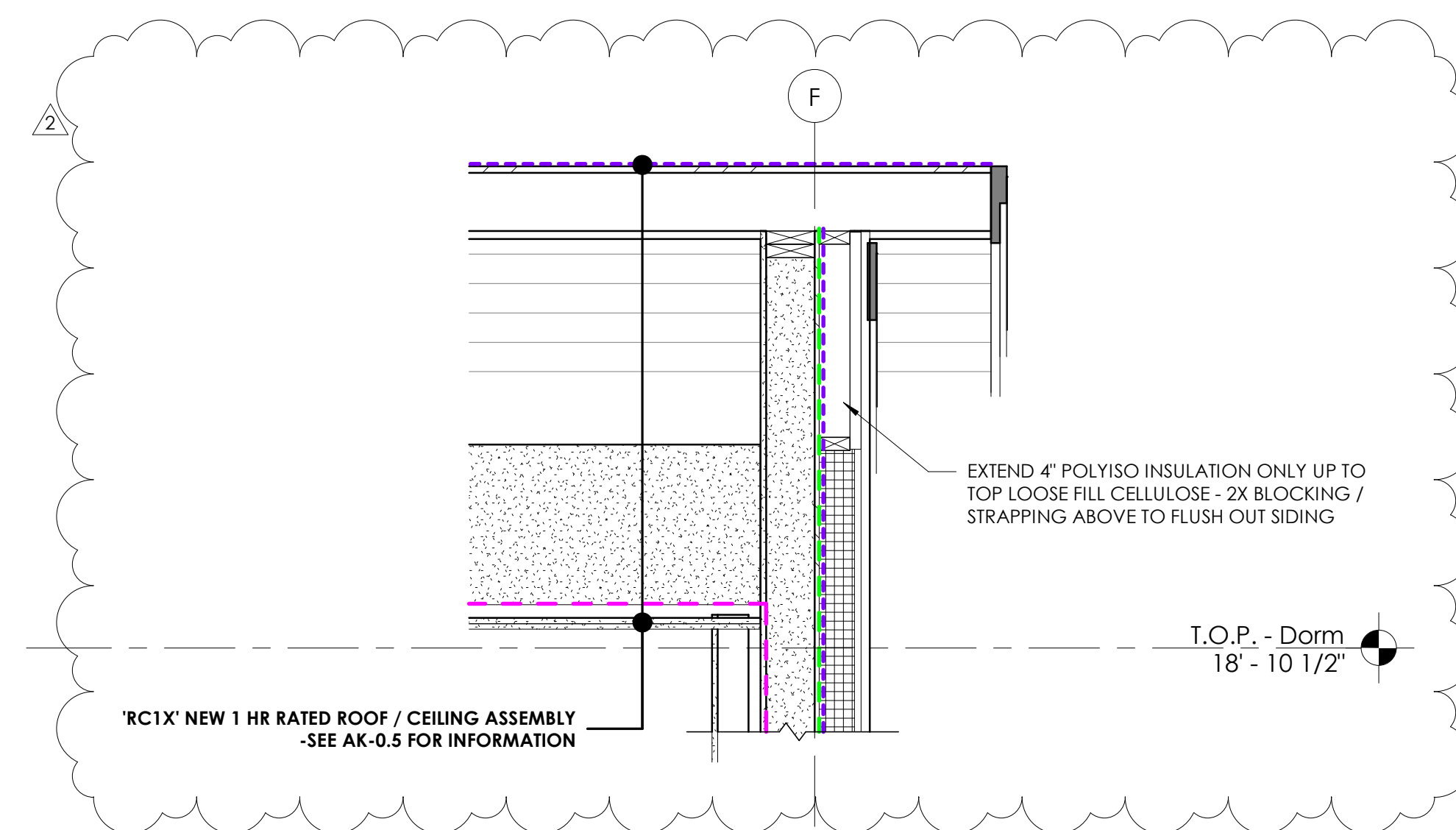
WELCH
EXTERIOR WALL
SECTIONS AT NEW

AW-6.1

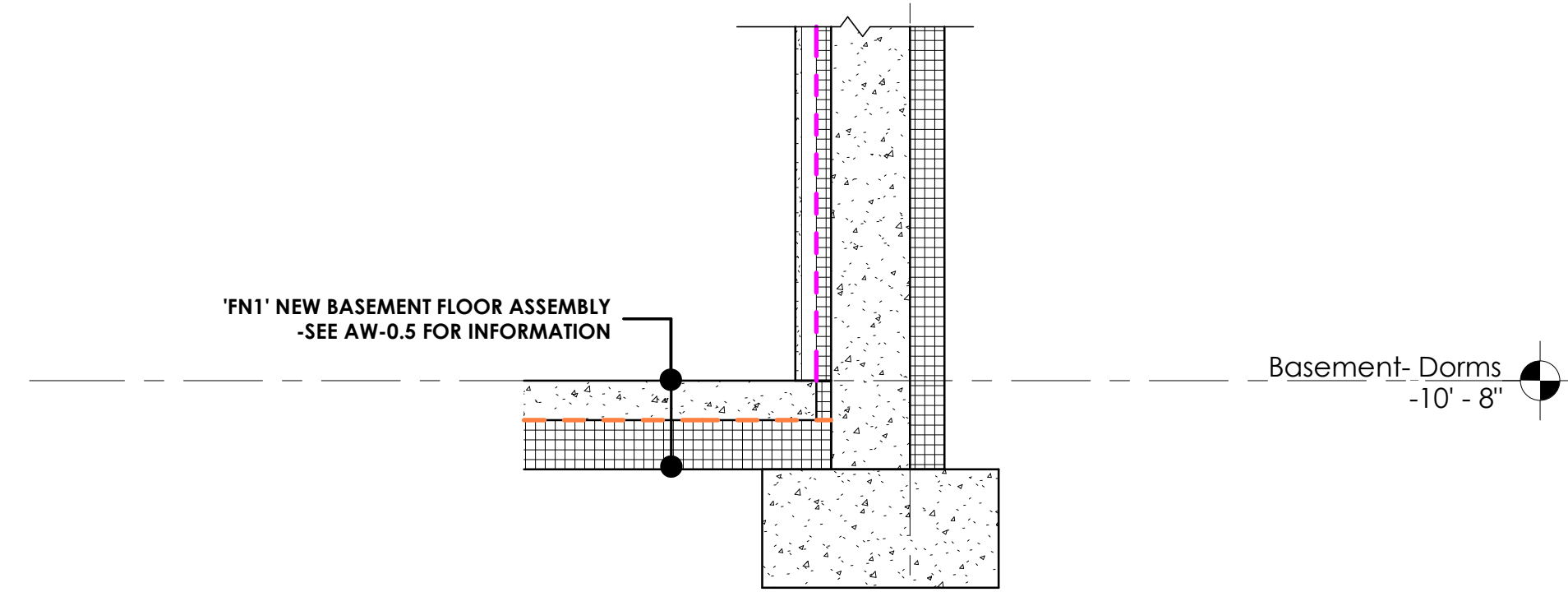
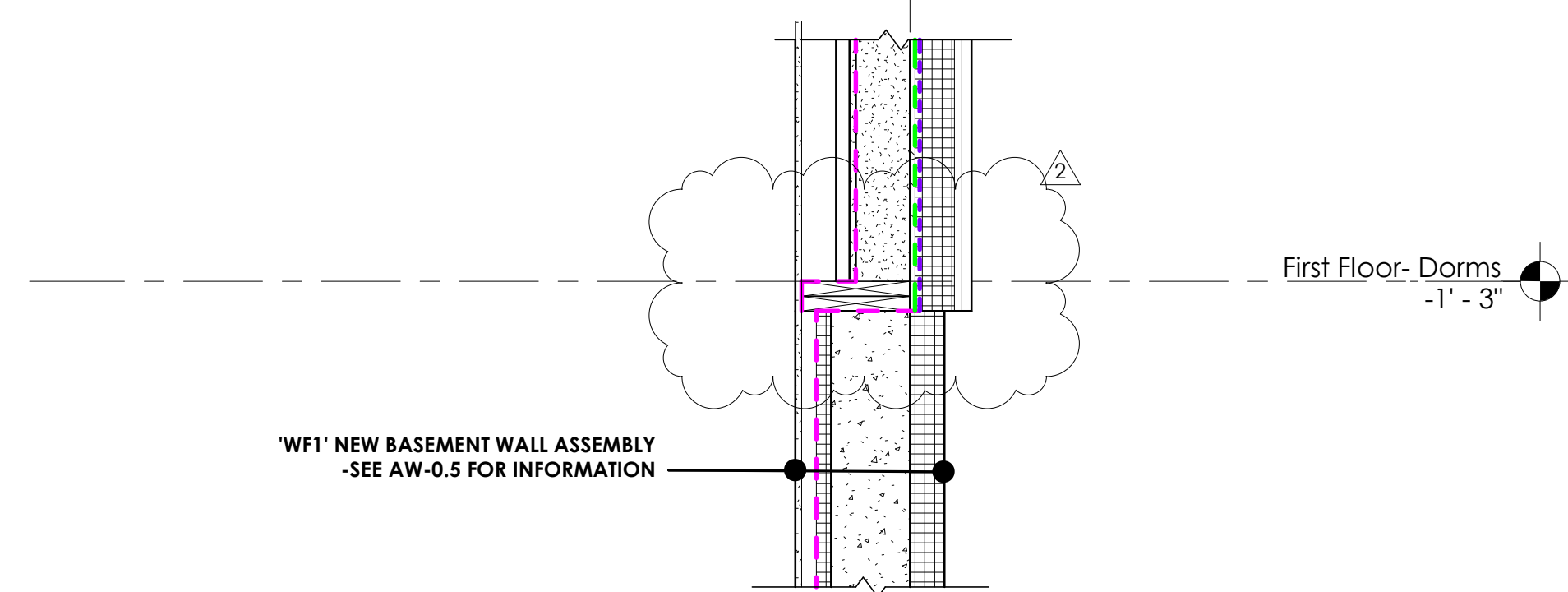
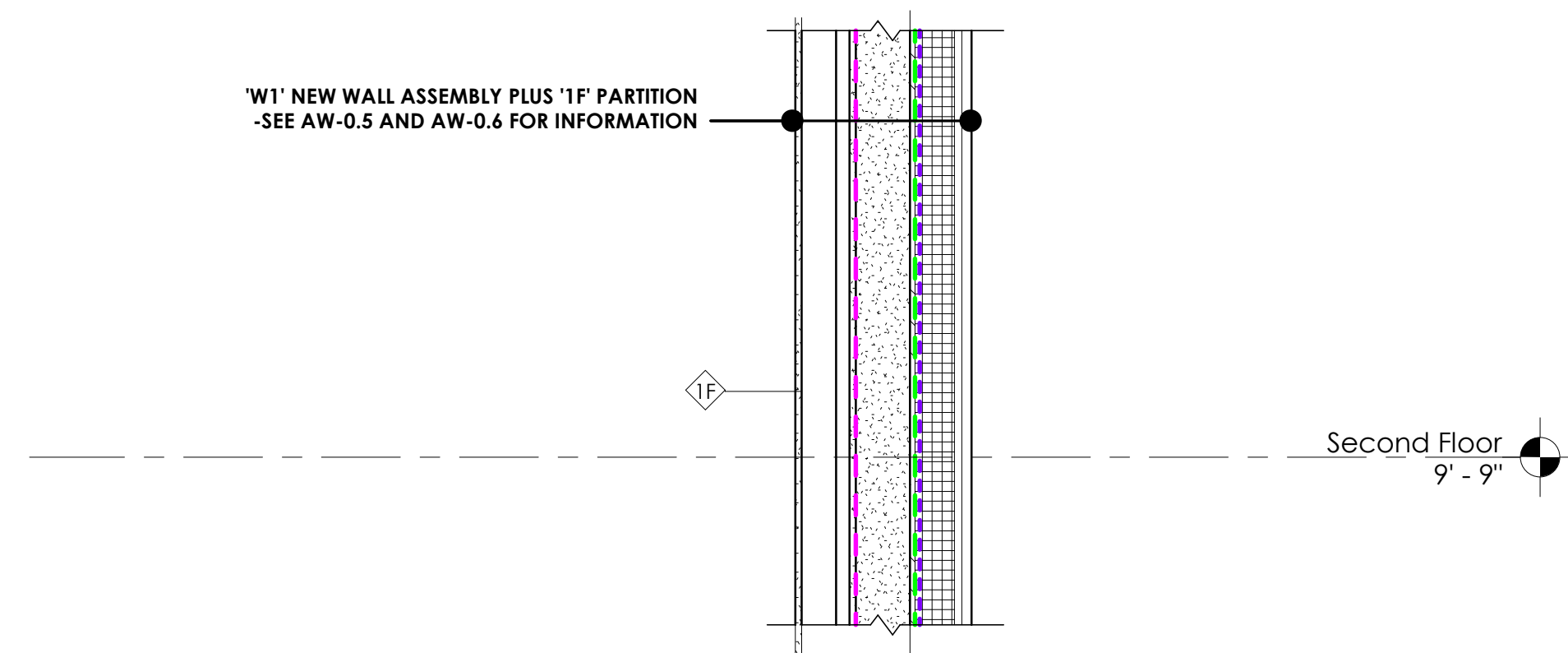
SECTION DETAILS AND MATERIALS LEGEND



2 Wall Section @ F.R. Mudroom
3/4" = 1'-0"



1 Typical Exterior Wall Section at Vertical Circulation
3/4" = 1'-0"



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#	Date	Description
2	05/15/23	Scope Changes to Bid Set #1

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KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

WELCH
EXTERIOR WALL
SECTIONS AT NEW

AW-6.2

CIVIL ENGINEER

Nicholas Fiore, P.E.
Engineering Ventures
nikf@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E.
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER

Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvtllc.com
802.885.8091

ELECTRICAL ENGINEER

Claus Barstenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.barstenstein@esvtllc.com
802.885.8091

CONSTRUCTION MANAGER

Calvin Russell, Senior Project Manager
ReArch Company, Inc.
calvinr@rearchcompany.com
802.863.8727



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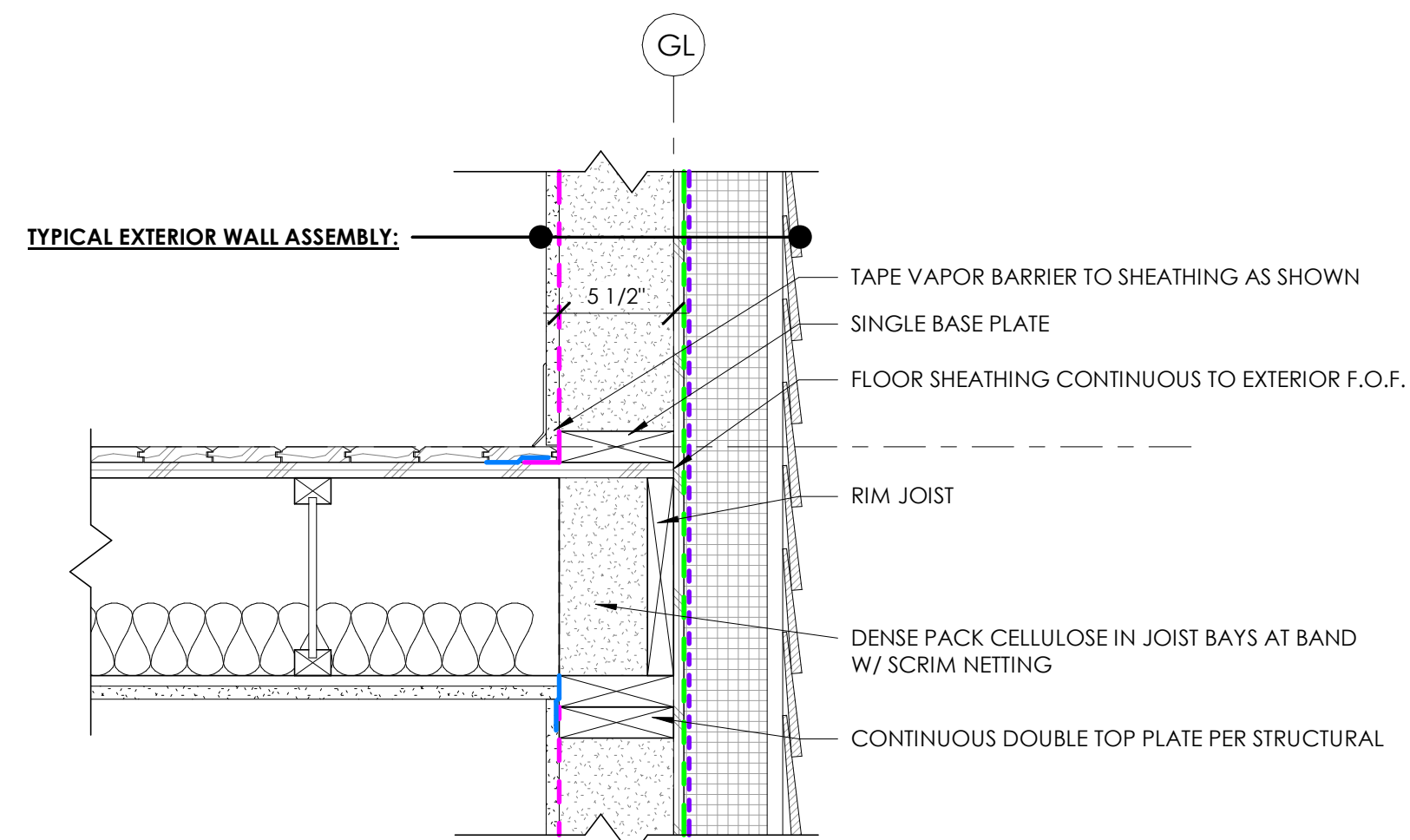
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**KUA
KILTON/WELCH
DORMITORIES**

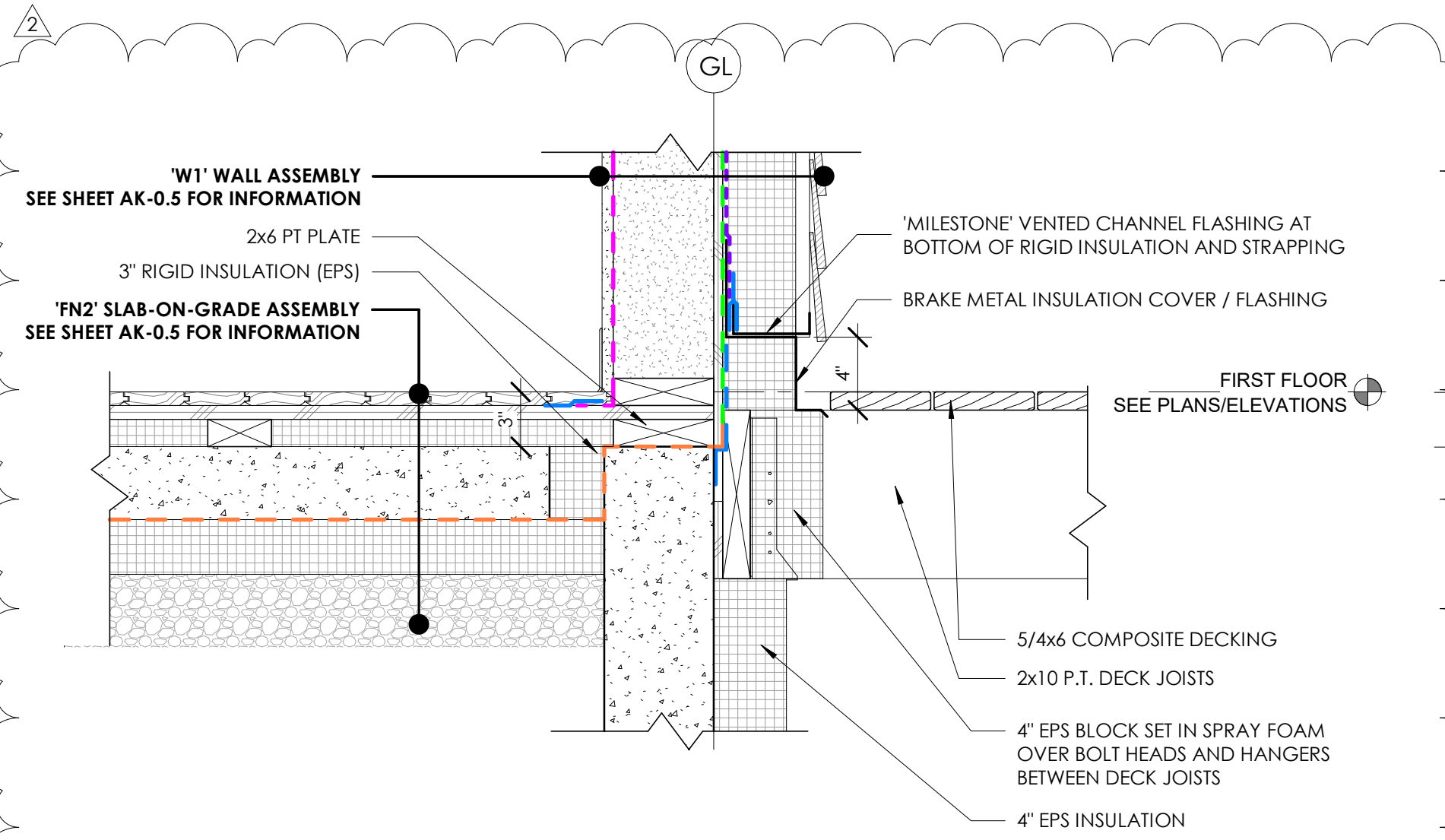
Main Street,
Meriden, NH 03770

**WELCH
DETAILS**

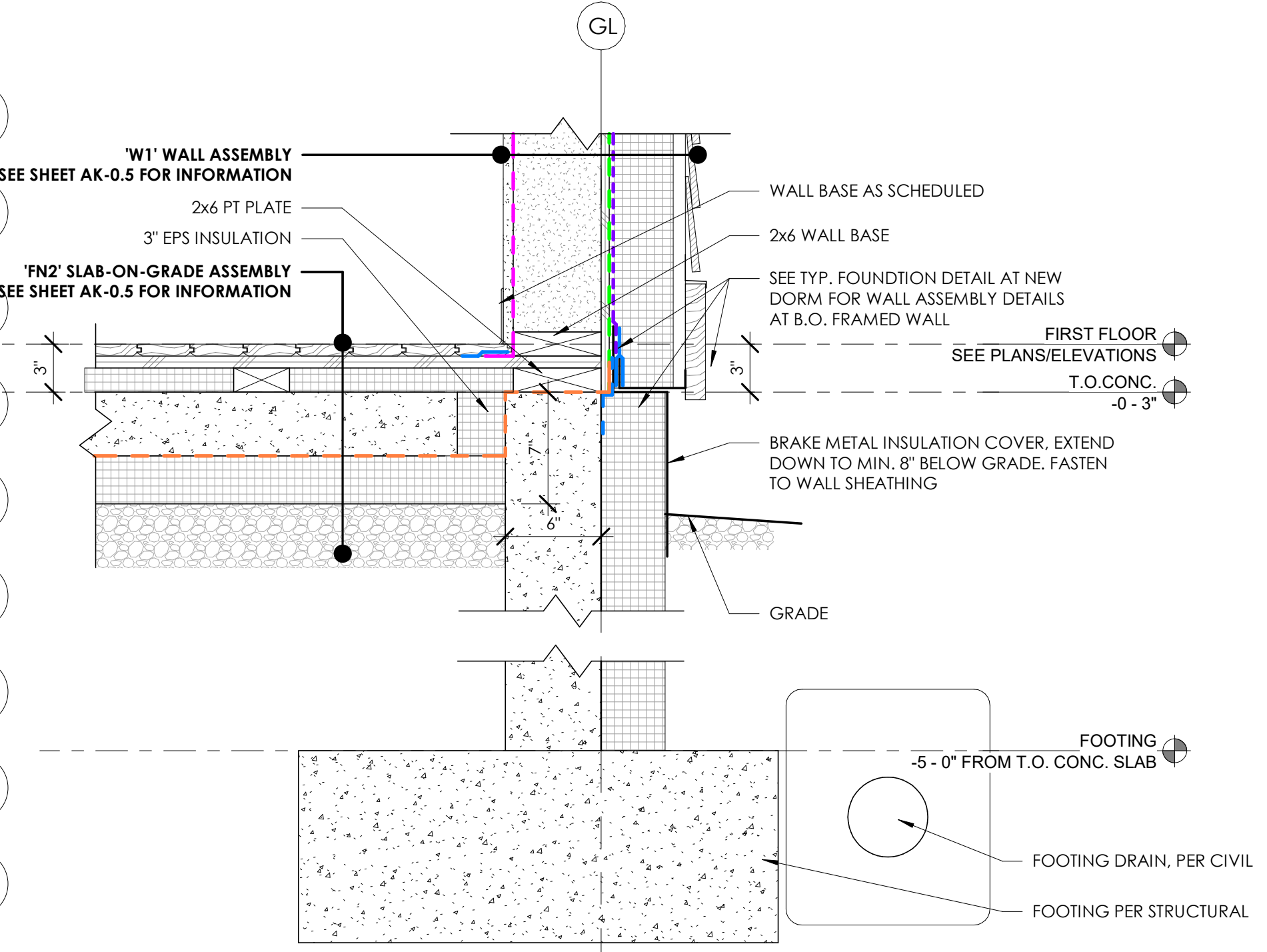
AW-6.3



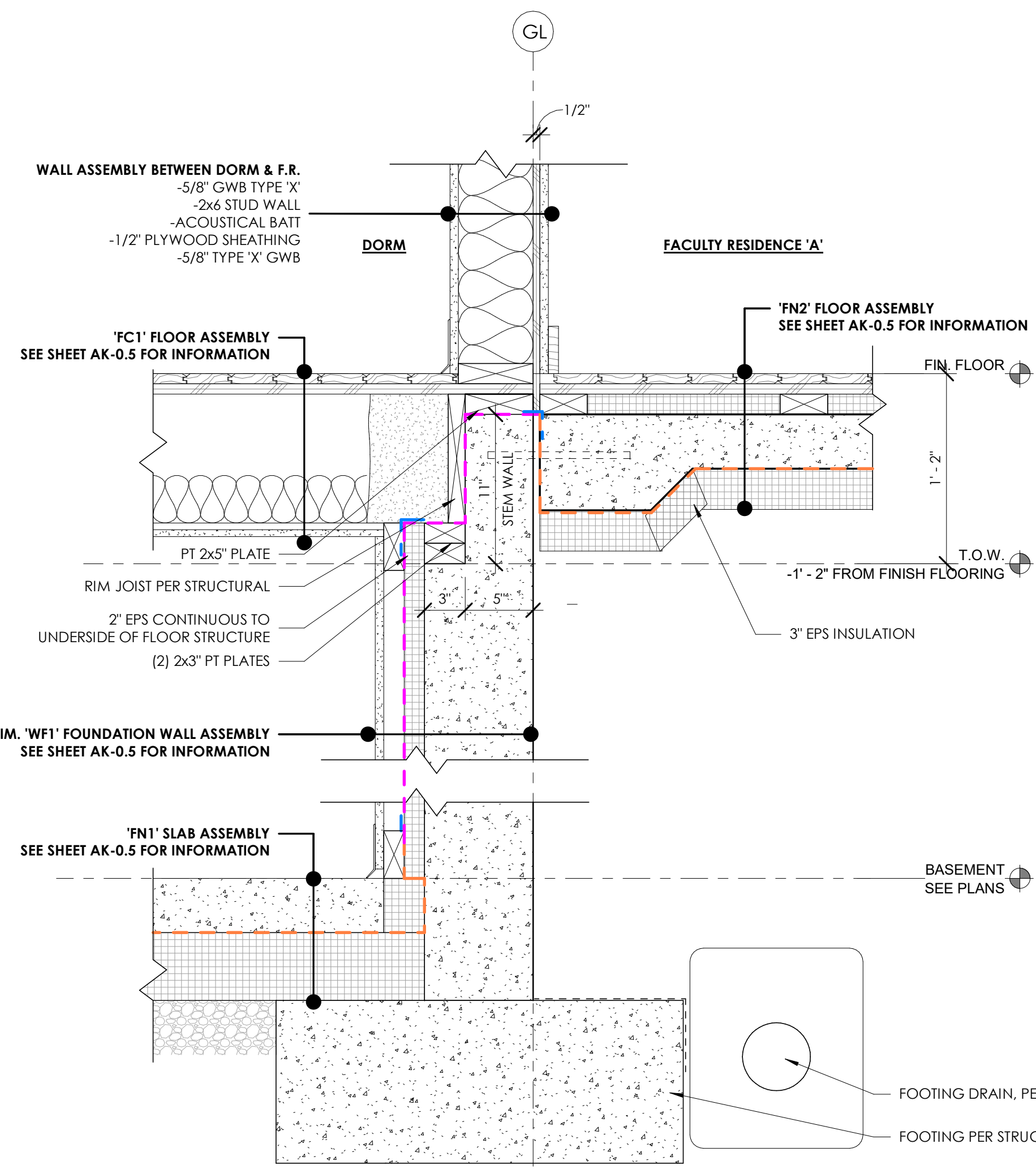
6 Typical Floor-Wall Detail
1 1/2" = 1'-0"



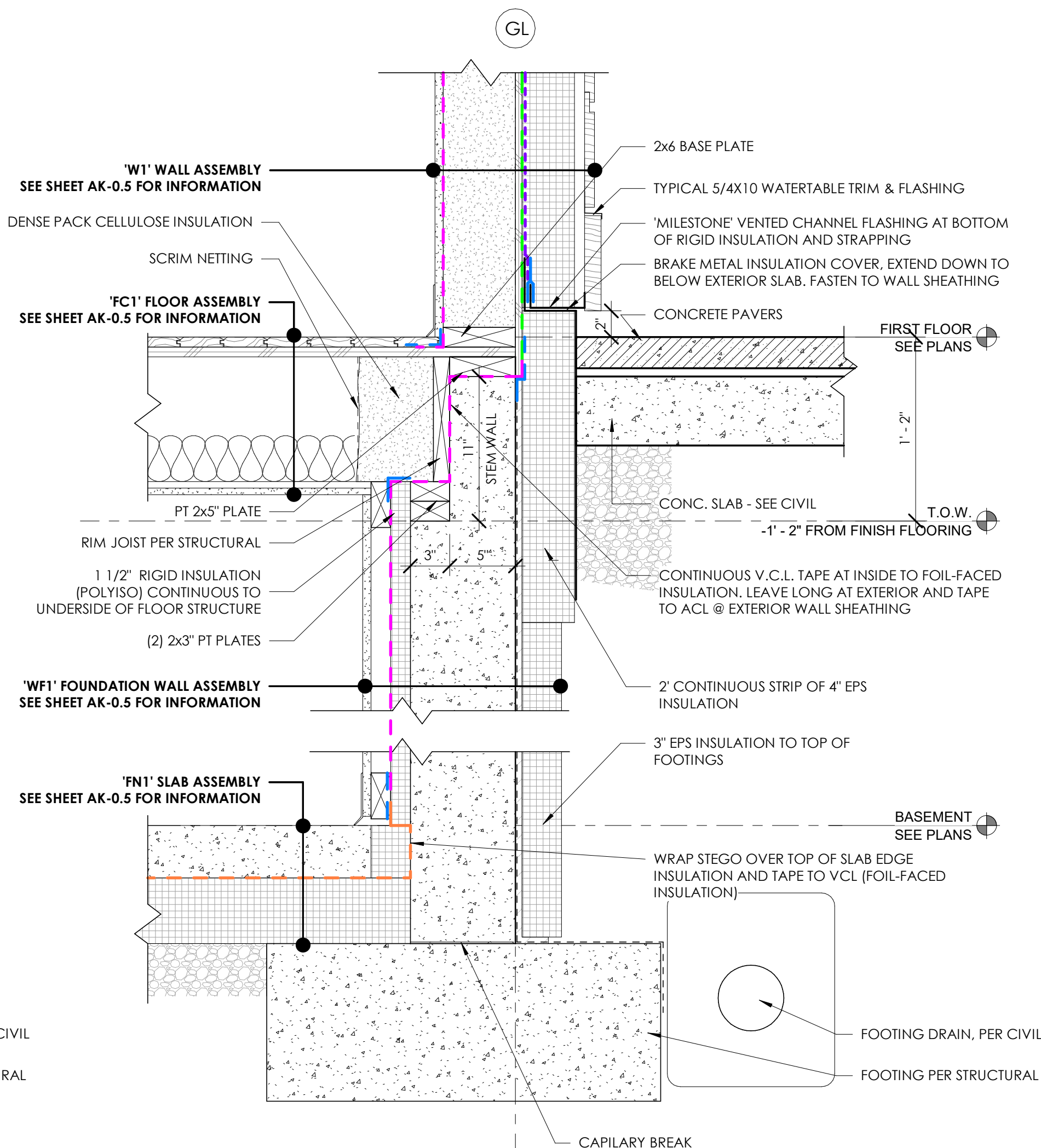
5 T.O. FDN Detail of Faculty Res Porch Deck
1 1/2" = 1'-0"



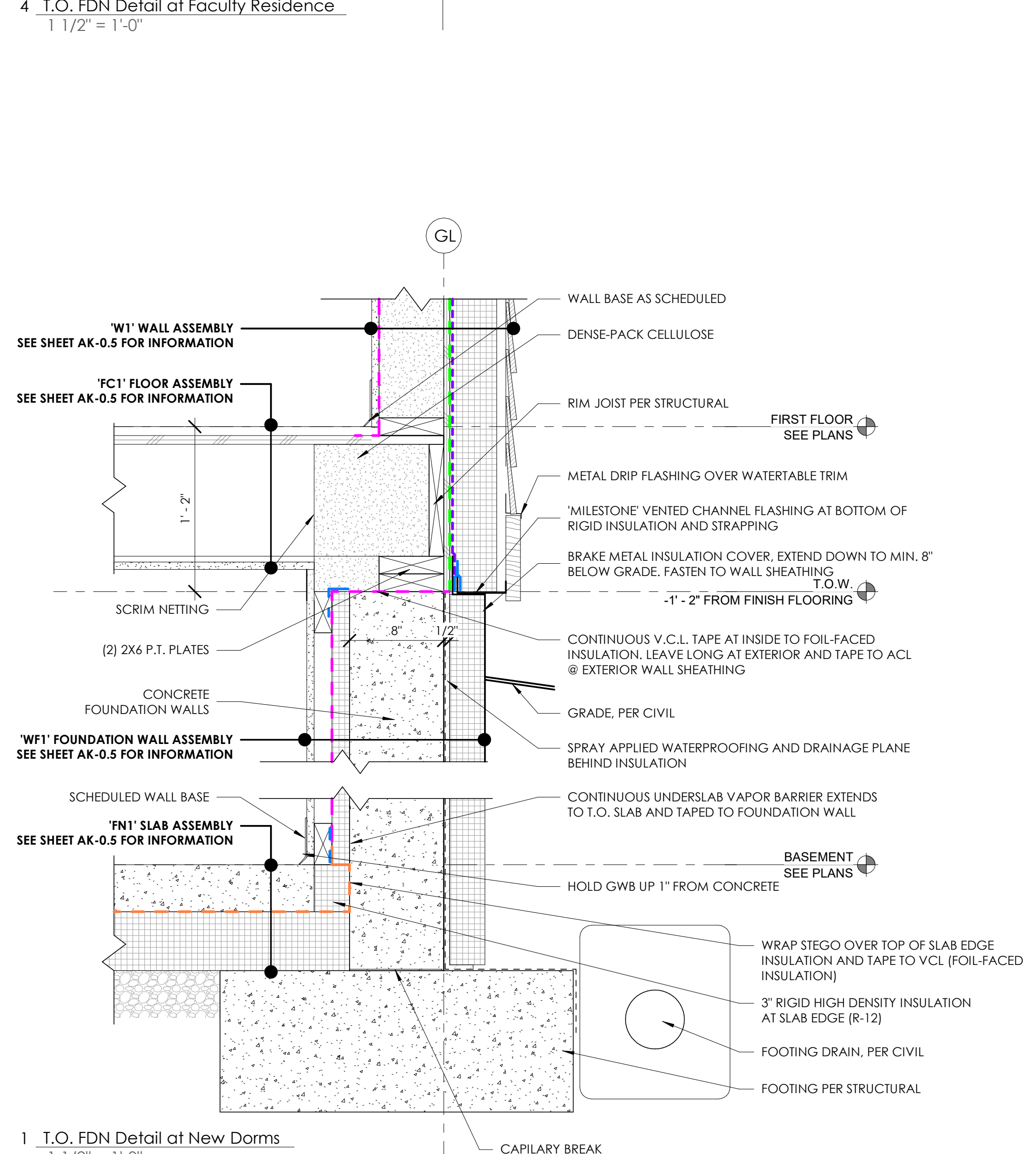
4 T.O. FDN Detail of Faculty Residence
1 1/2" = 1'-0"



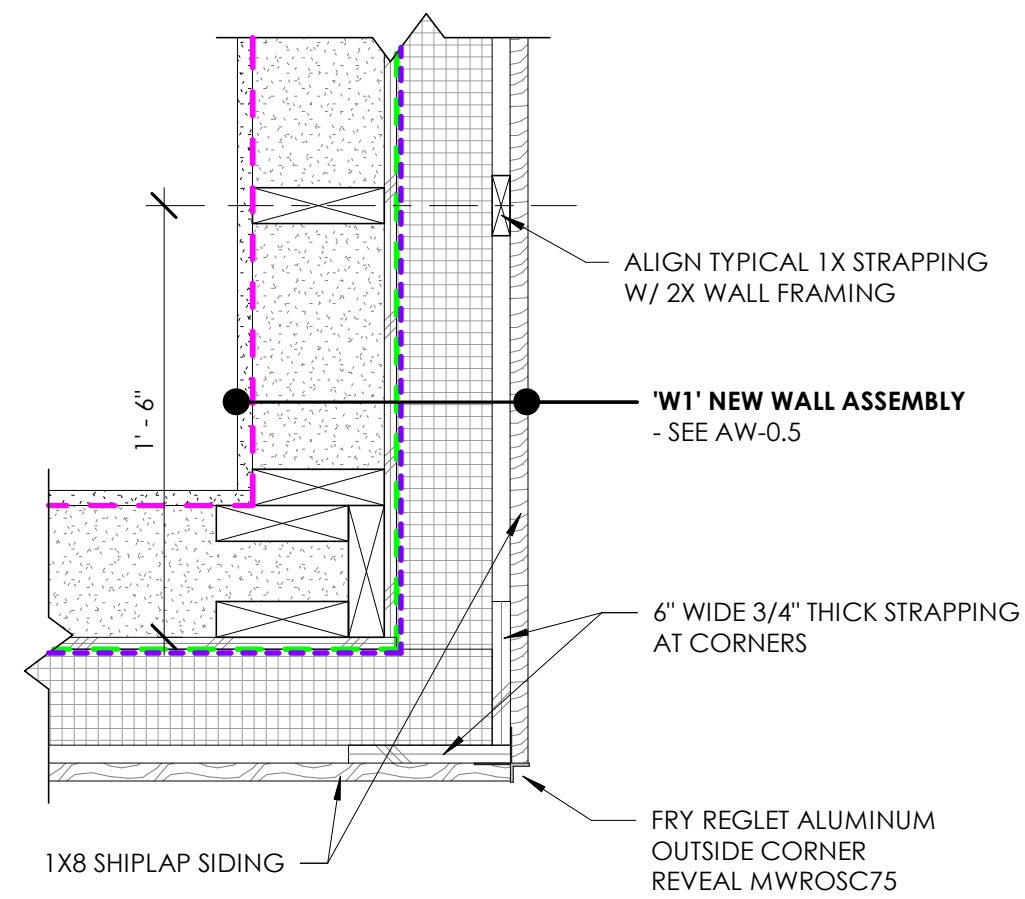
3 T.O. FDN Detail Between Dorm & Faculty Residence
1 1/2" = 1'-0"



2 T.O. FDN Detail at New Dorm Plaza
1 1/2" = 1'-0"

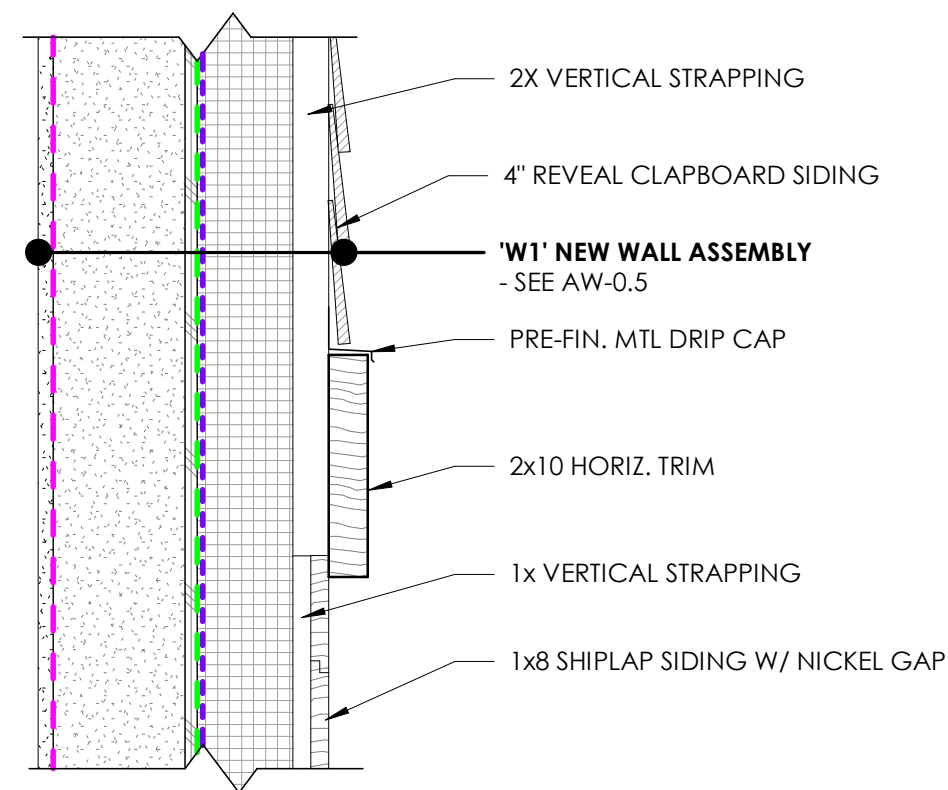


1 T.O. FDN Detail of New Dorms
1 1/2" = 1'-0"

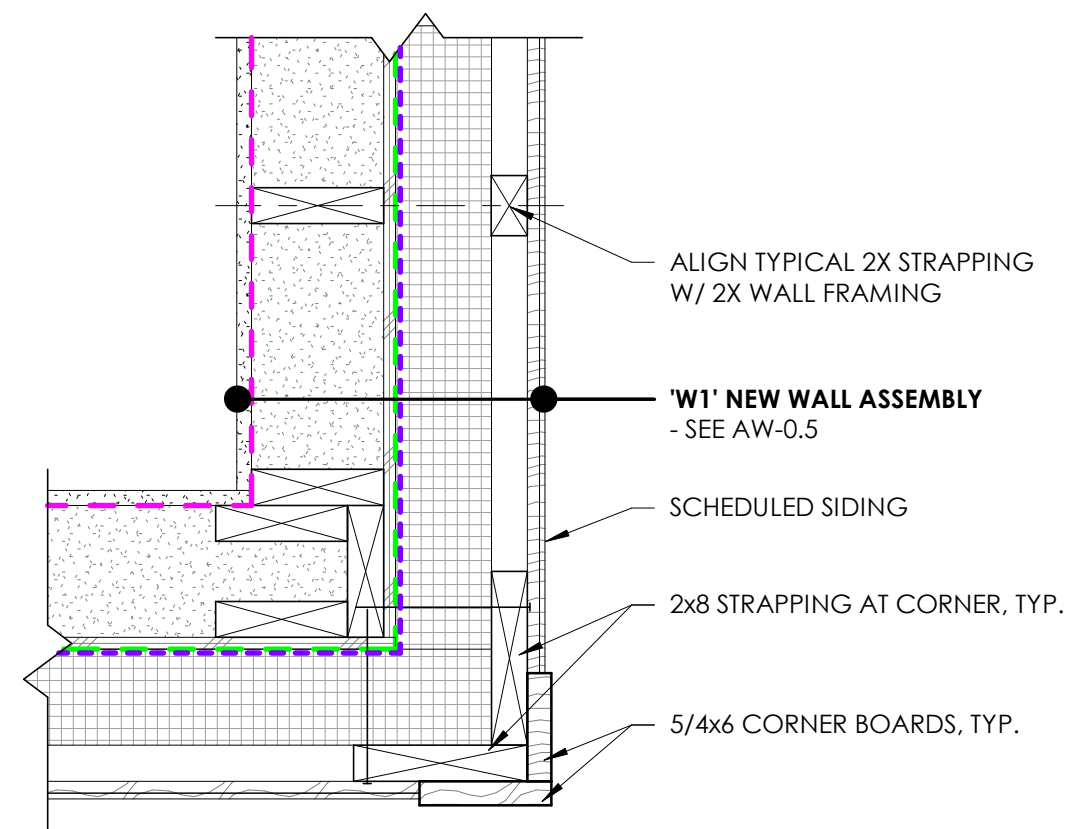


TYP. SHIPLAP SIDING CORNER DETAIL

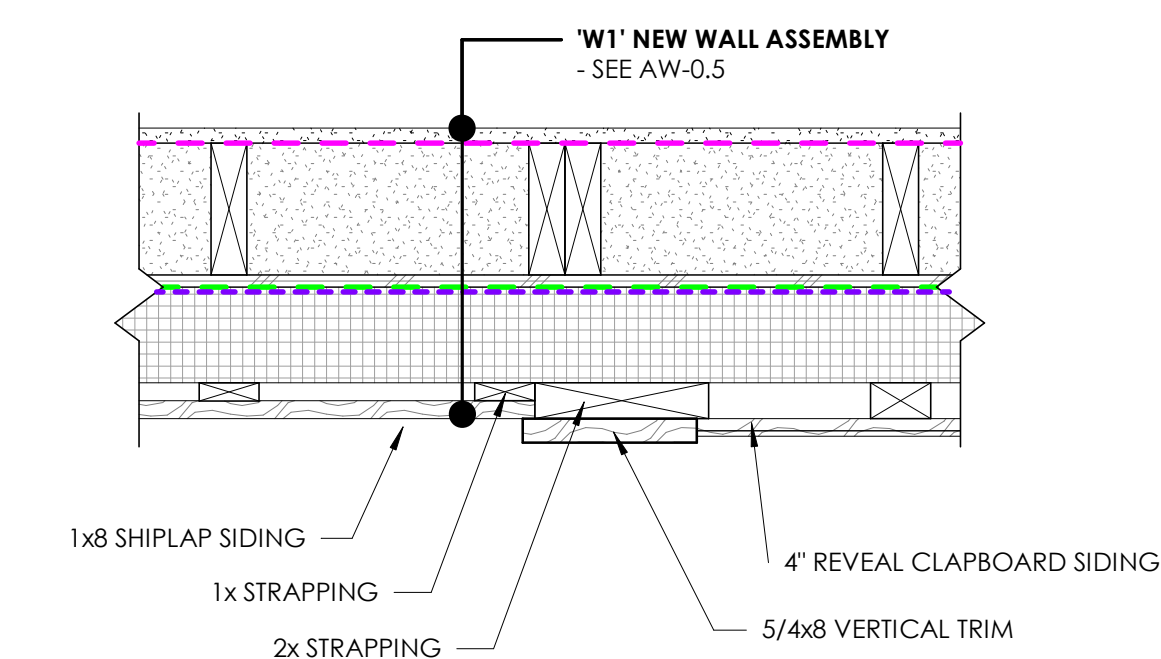
5 Plan Detail @ Siding Corner
1 1/2" = 1'-0"



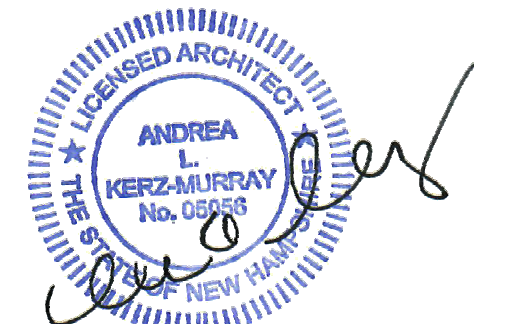
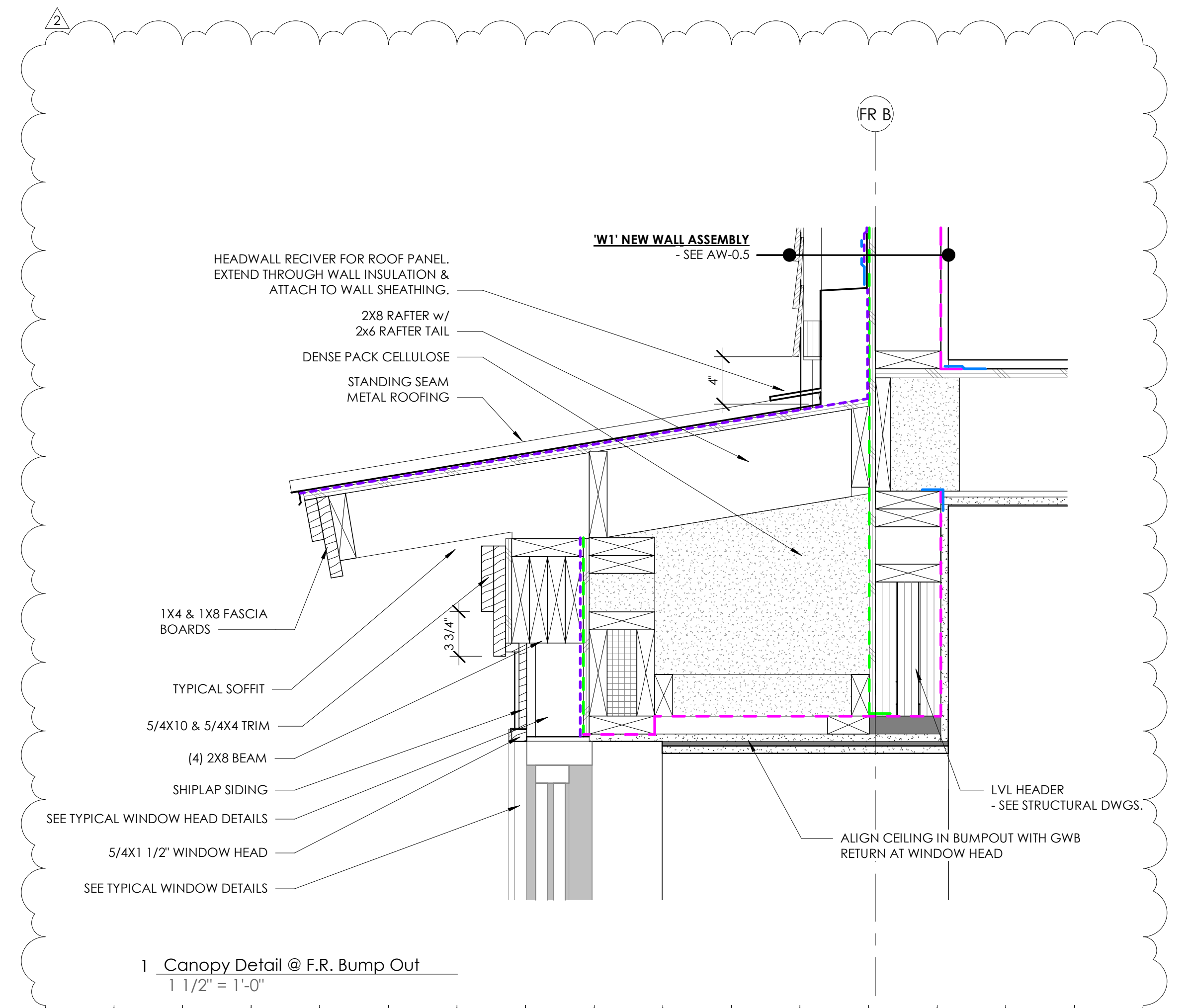
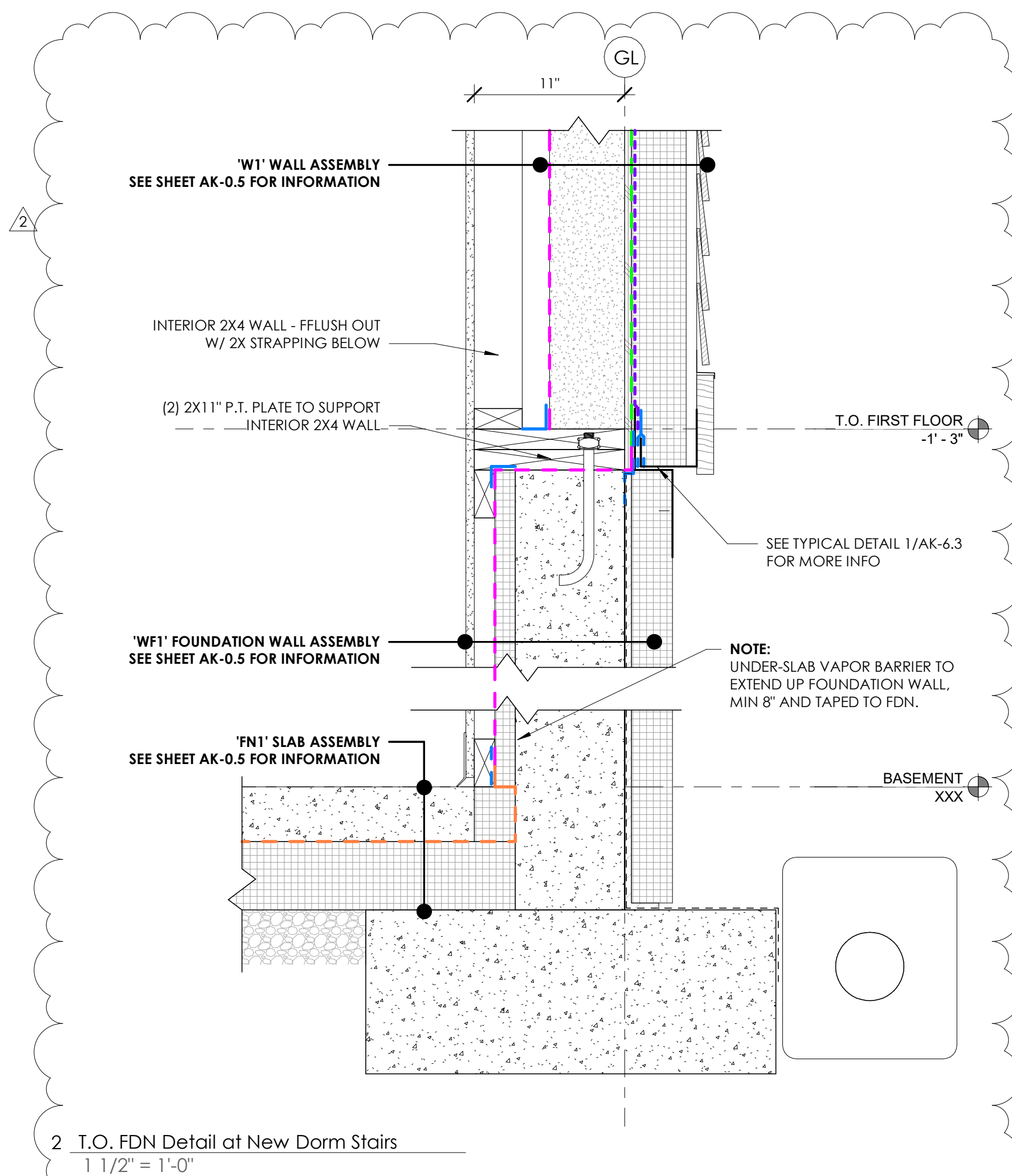
4 Detail @ Siding Transition
1 1/2" = 1'-0"



TYP. CLAPBOARD SIDING CORNER DETAIL



3 Plan Detail @ Siding Transition
1 1/2" = 1'-0"



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#	Date	Description
2	05/15/23	Scope Changes to Bid Set #1

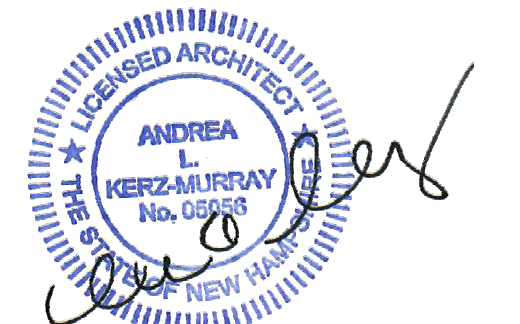
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WELCH
DETAILS

AW-6.4



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#	Date	Description
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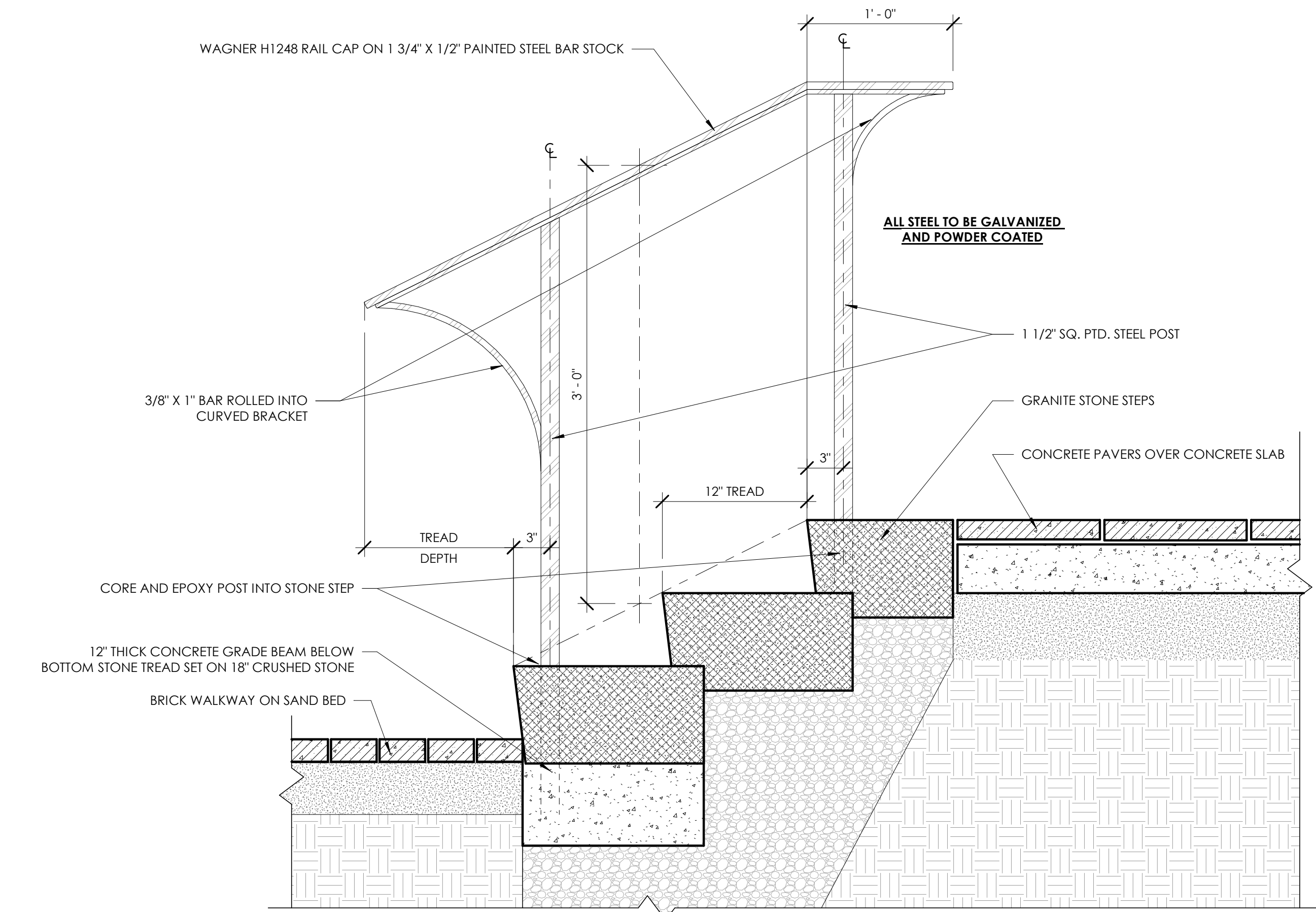
PERMIT SET 05/15/2023

KUA KILTON/WELCH DORMITORIES

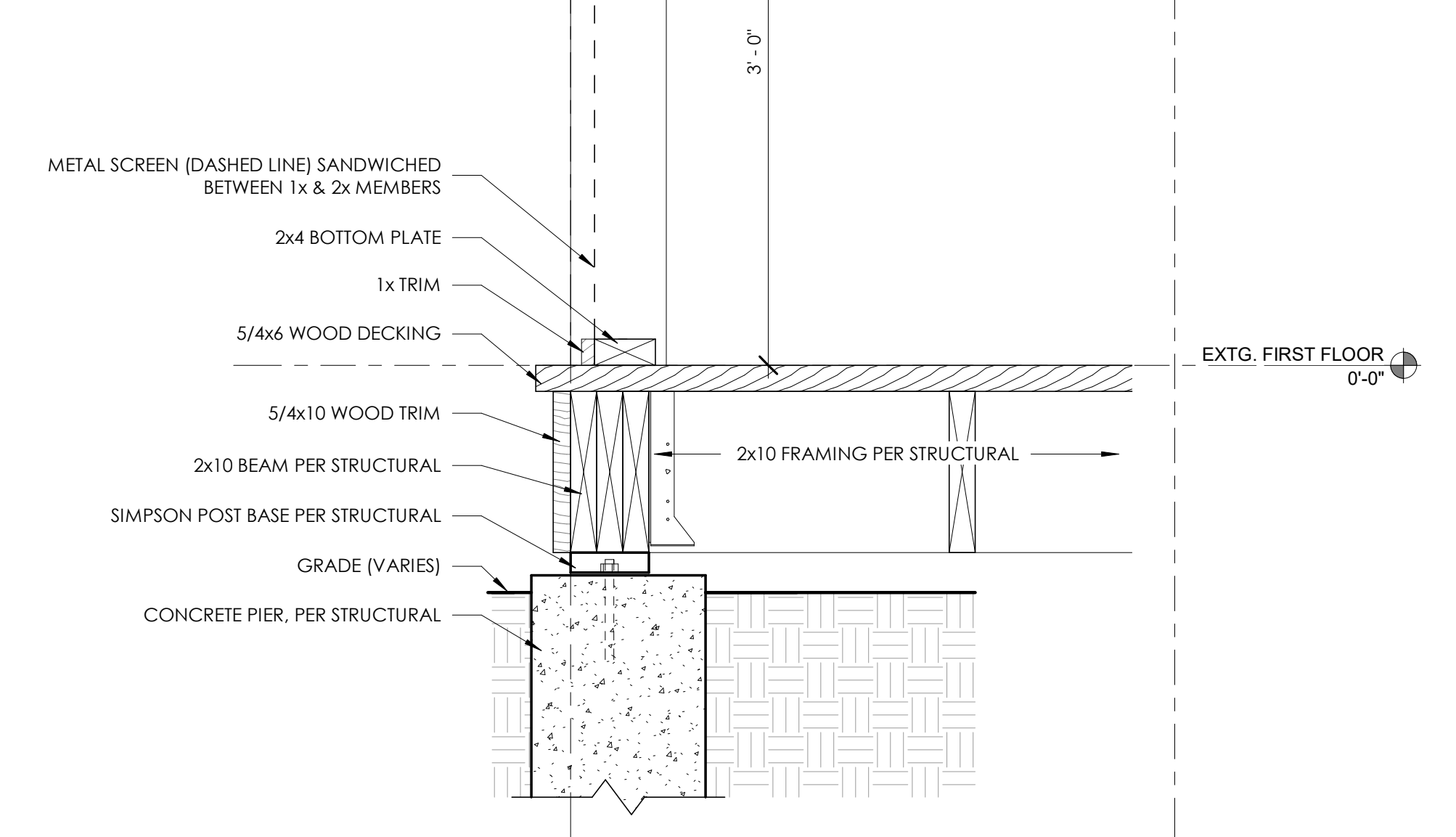
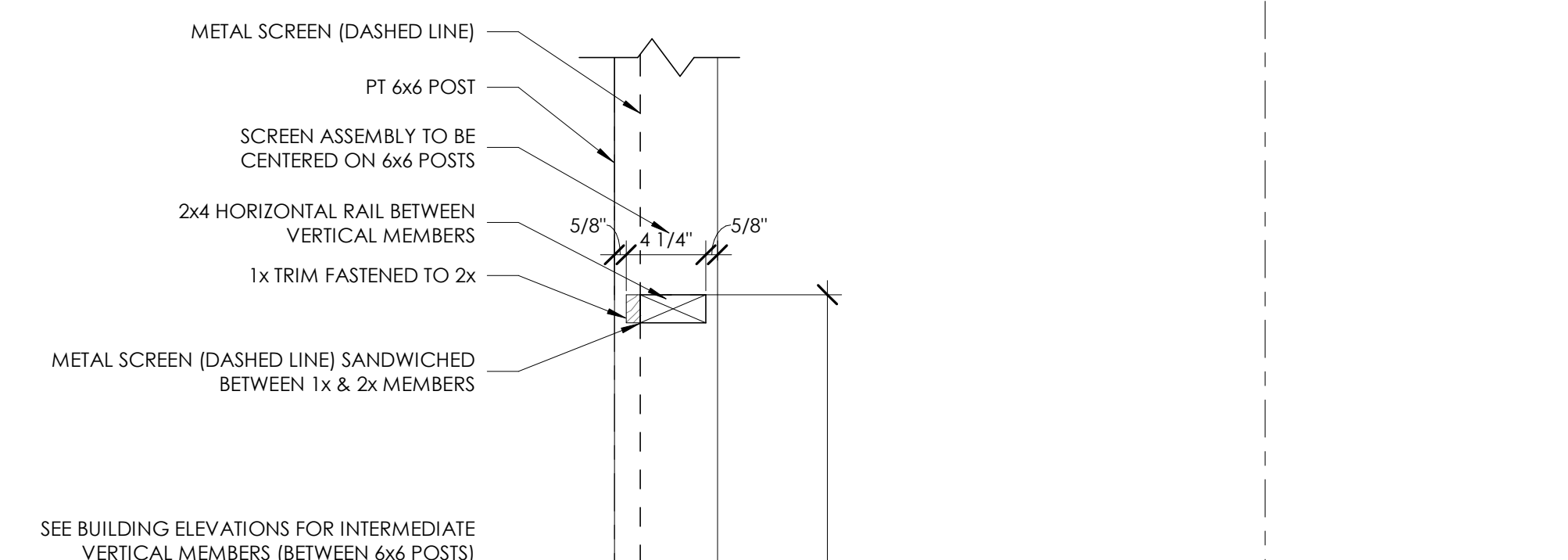
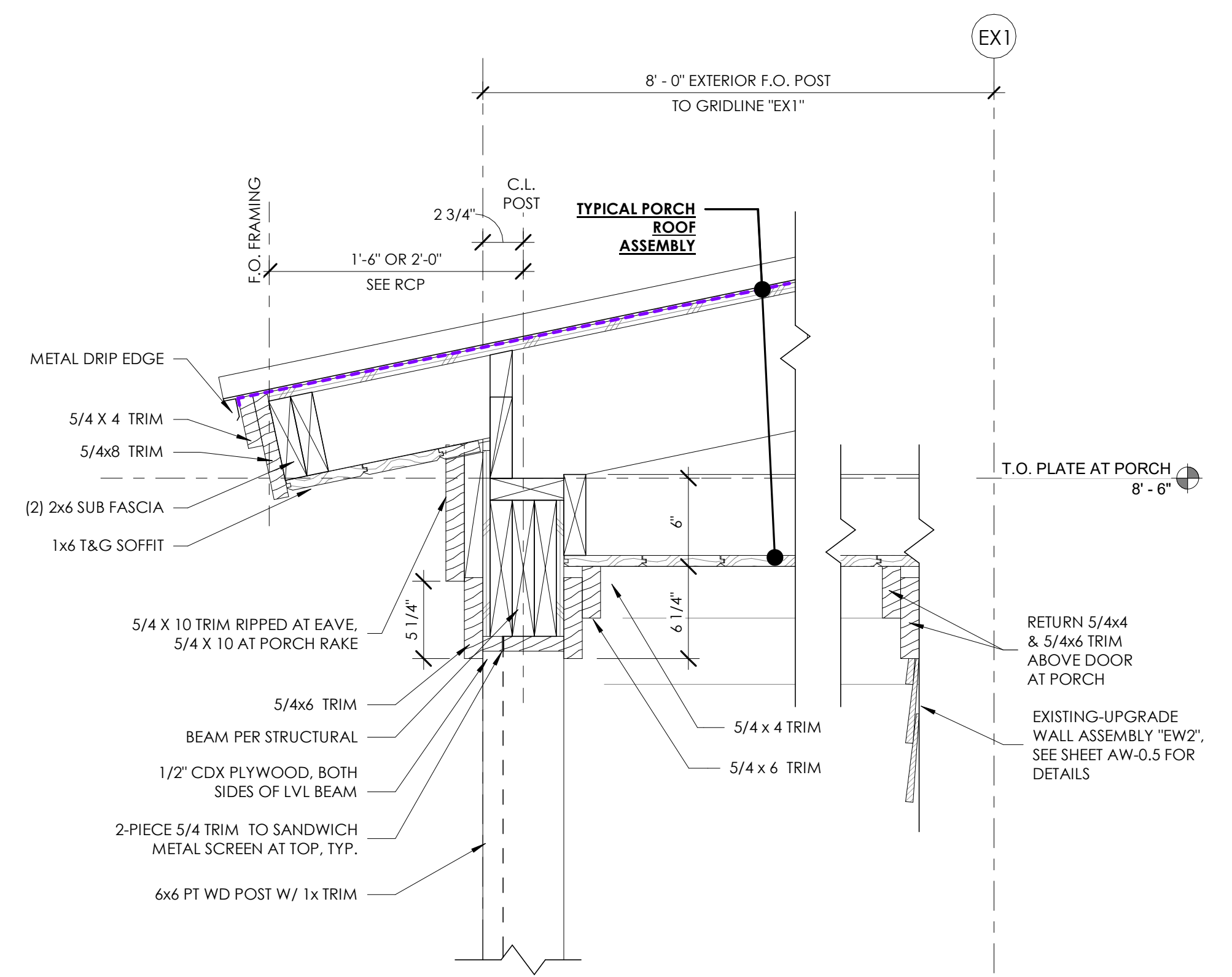
Main Street,
Meriden, NH 03770

WELCH DETAILS

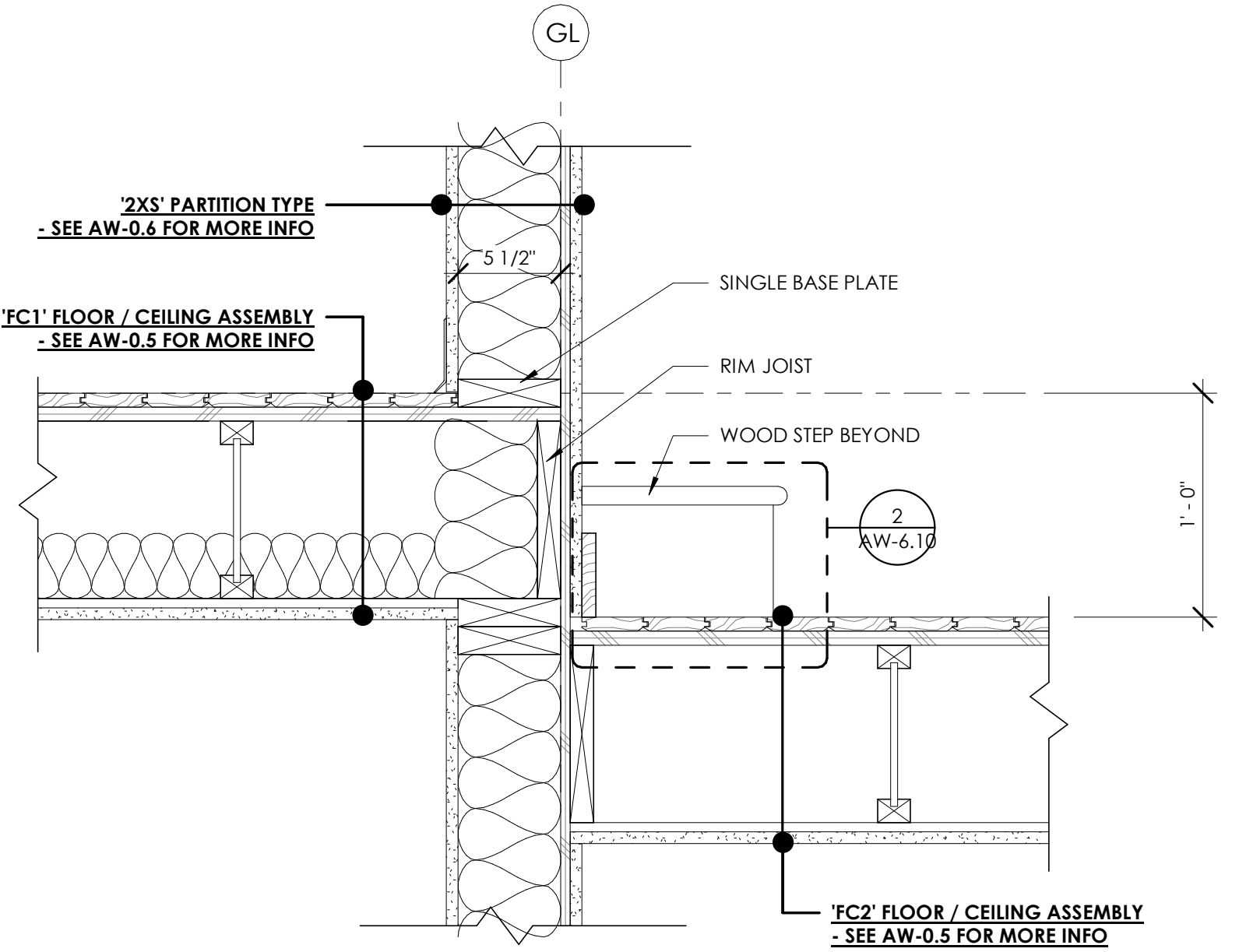
AW-6.5



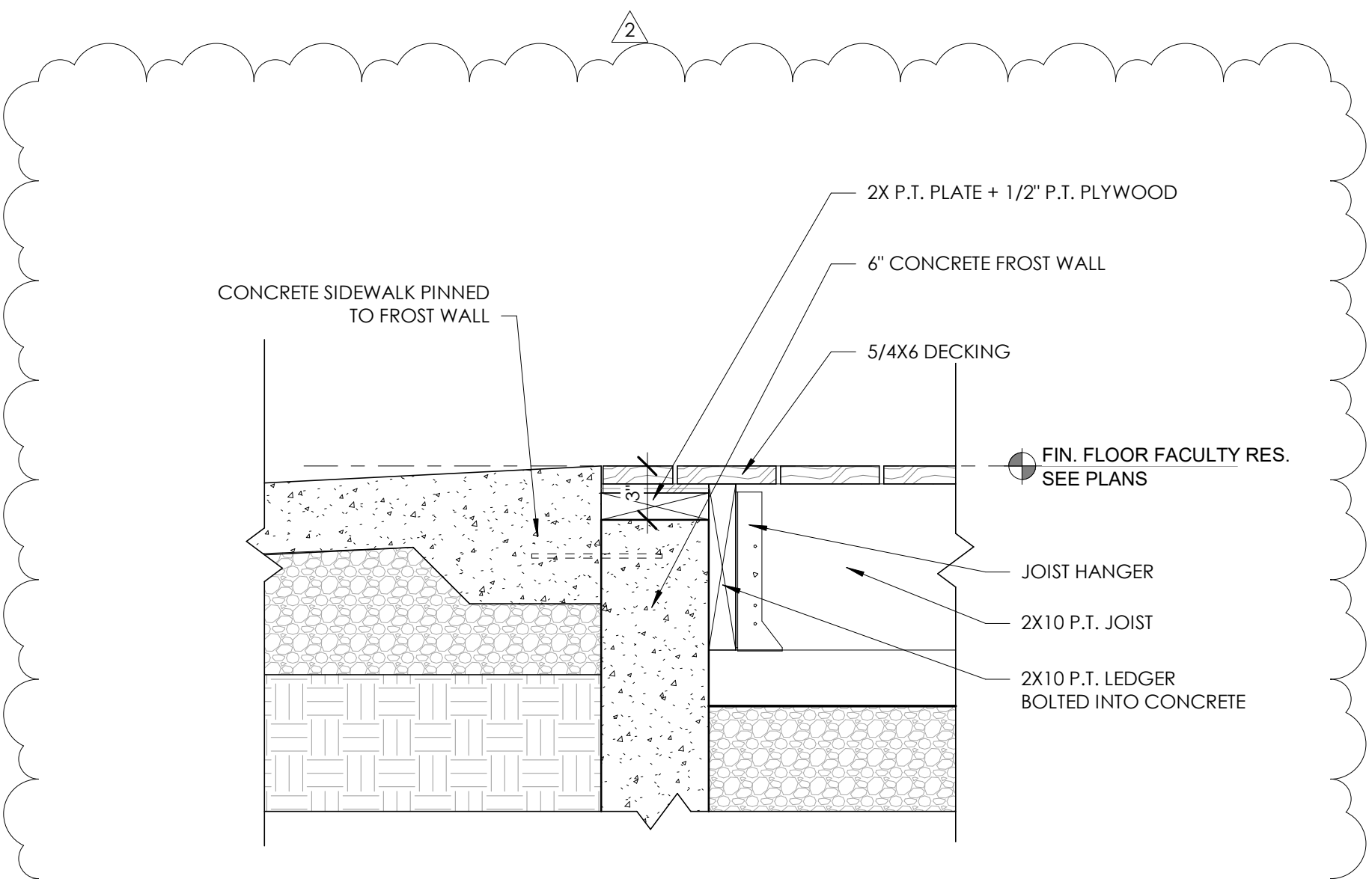
4 Exterior Stair Detail
1 1/2" = 1'-0"



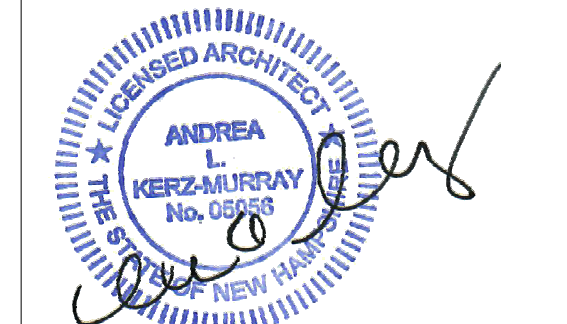
1 Faculty Res. Screen Porch Section Detail
1 1/2" = 1'-0"



3 Typical 2nd Floor Jct. @ Dorm/F.R.
1 1/2" = 1'-0"



2 Deck Edge Detail @ Faculty Residences
1 1/2" = 1'-0"



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#	Date	Description
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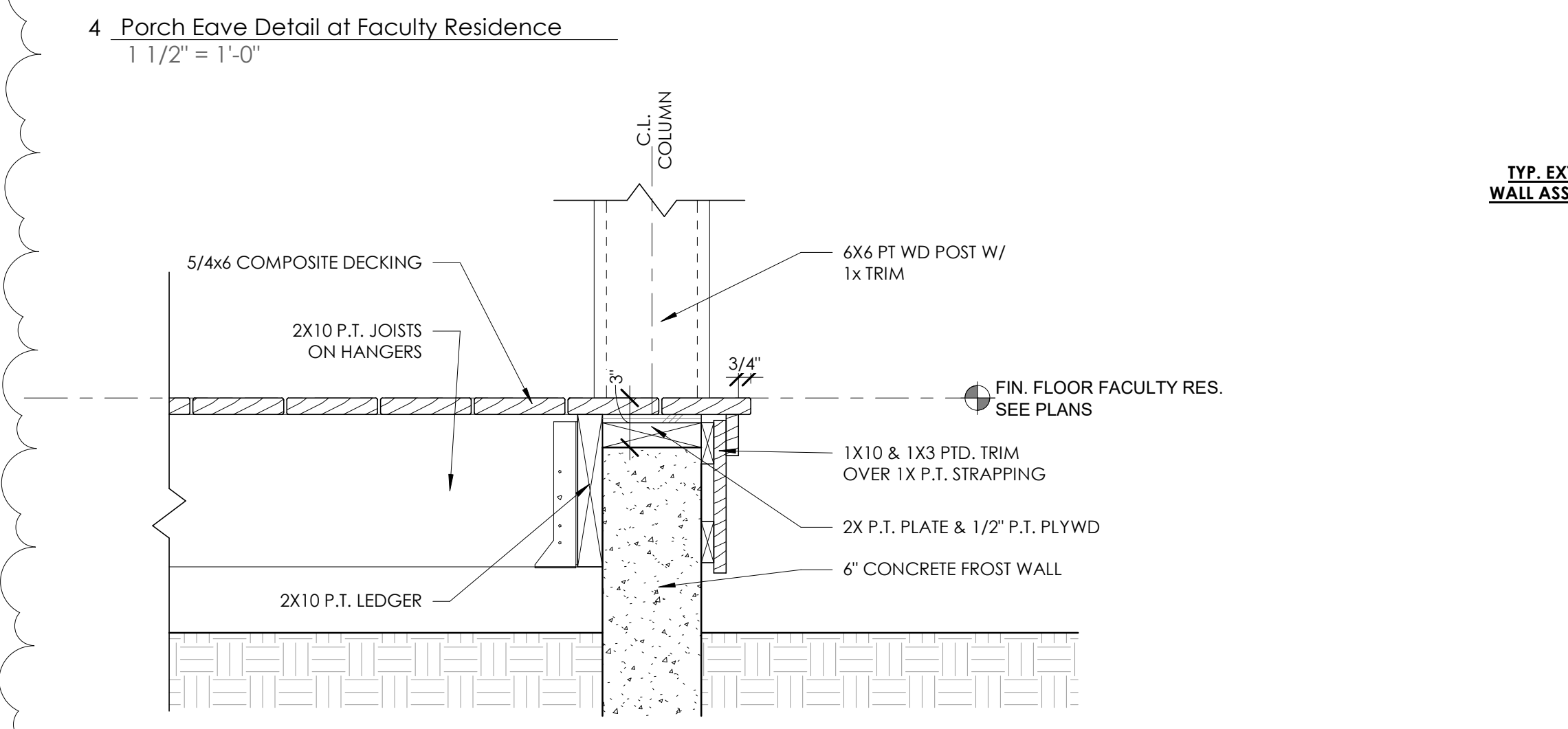
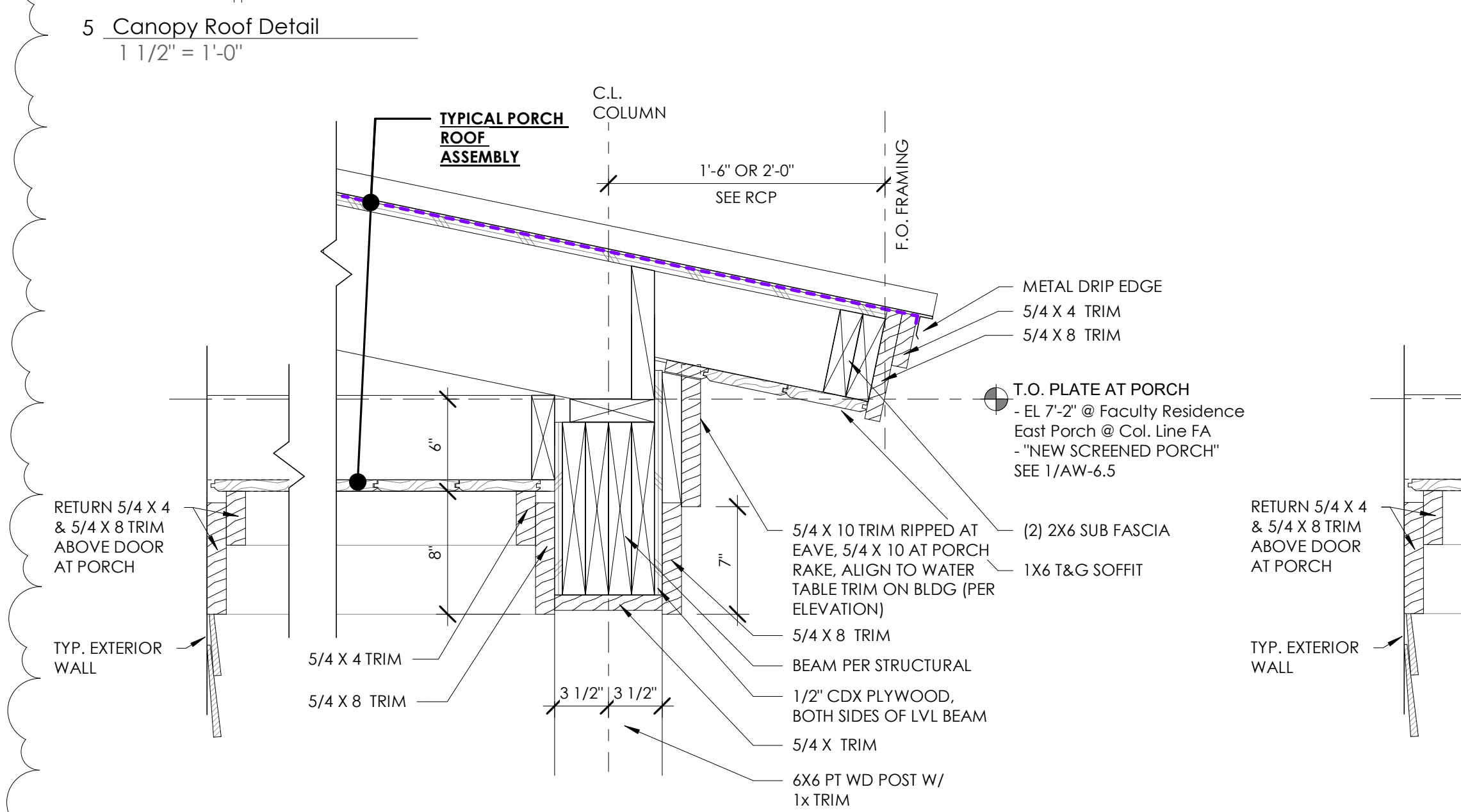
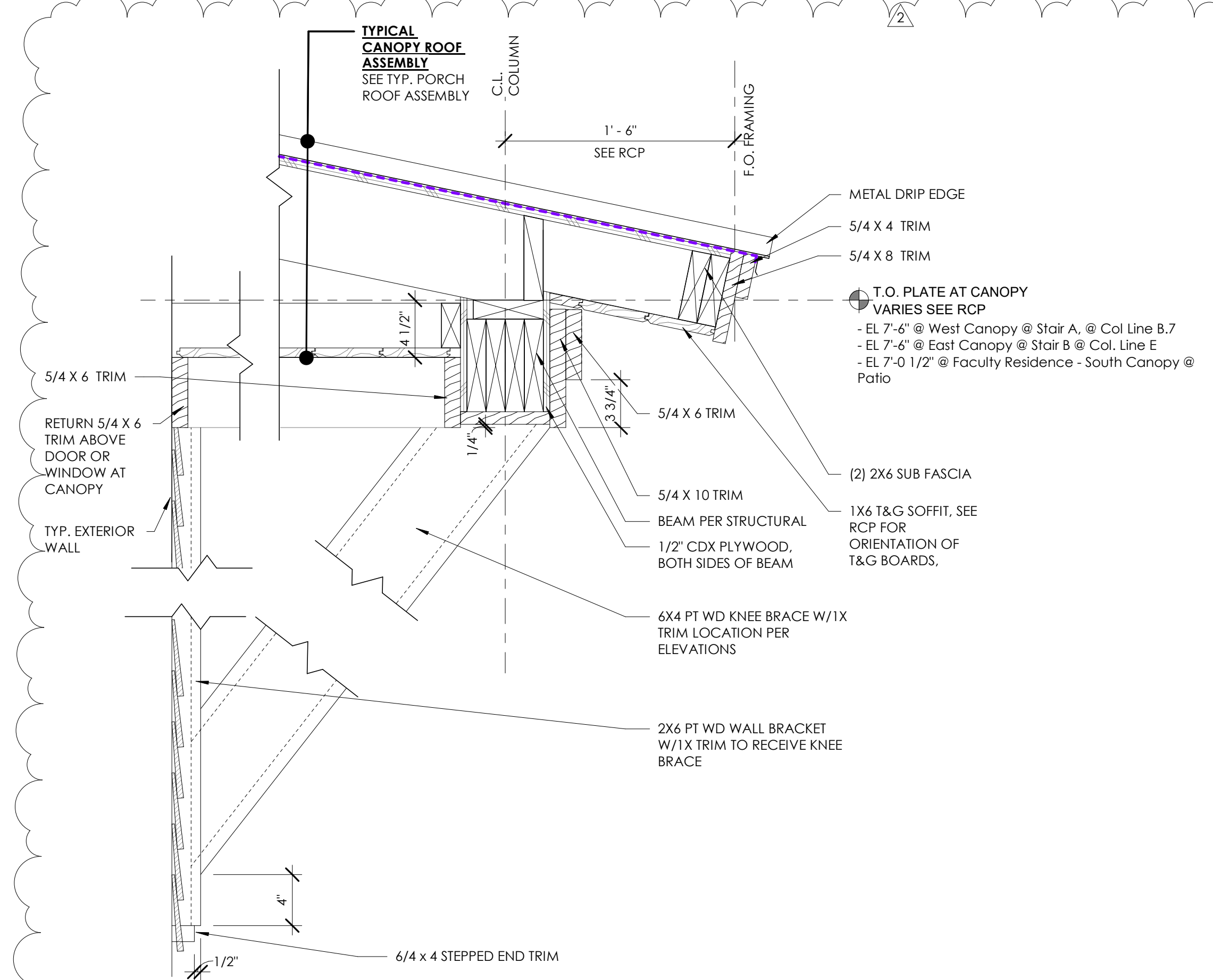
PERMIT SET 05/15/2023

KUA KILTON/WELCH DORMITORIES

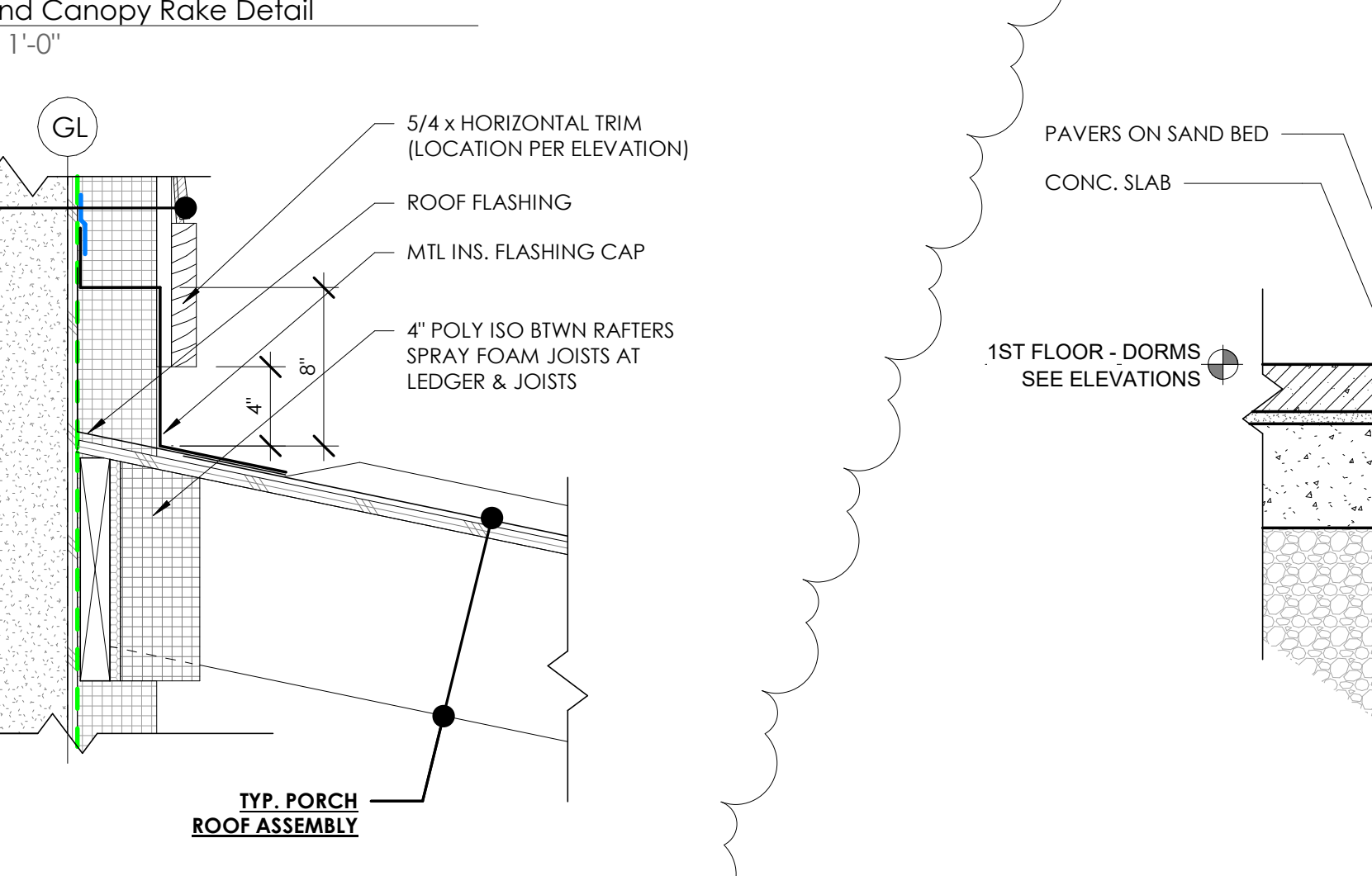
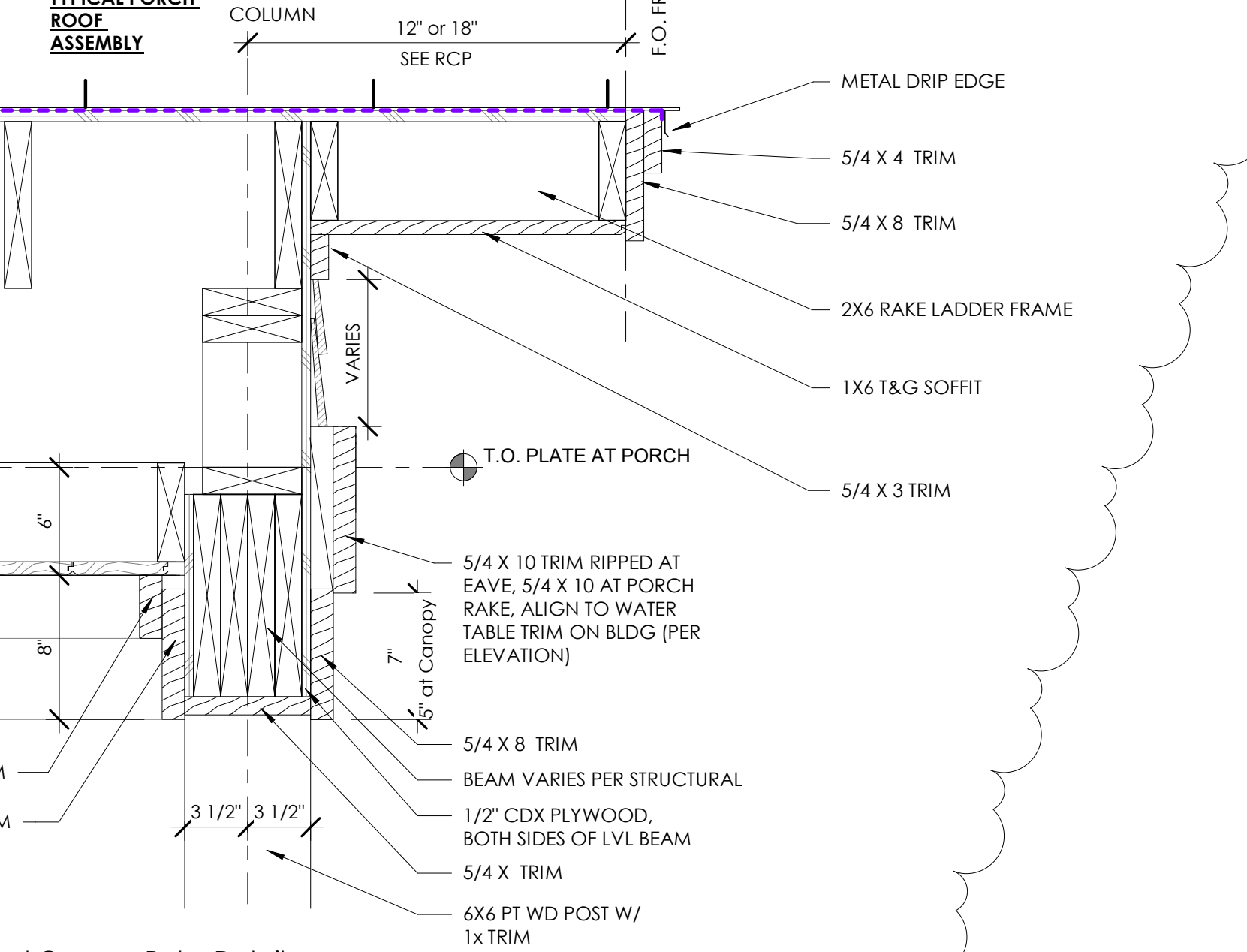
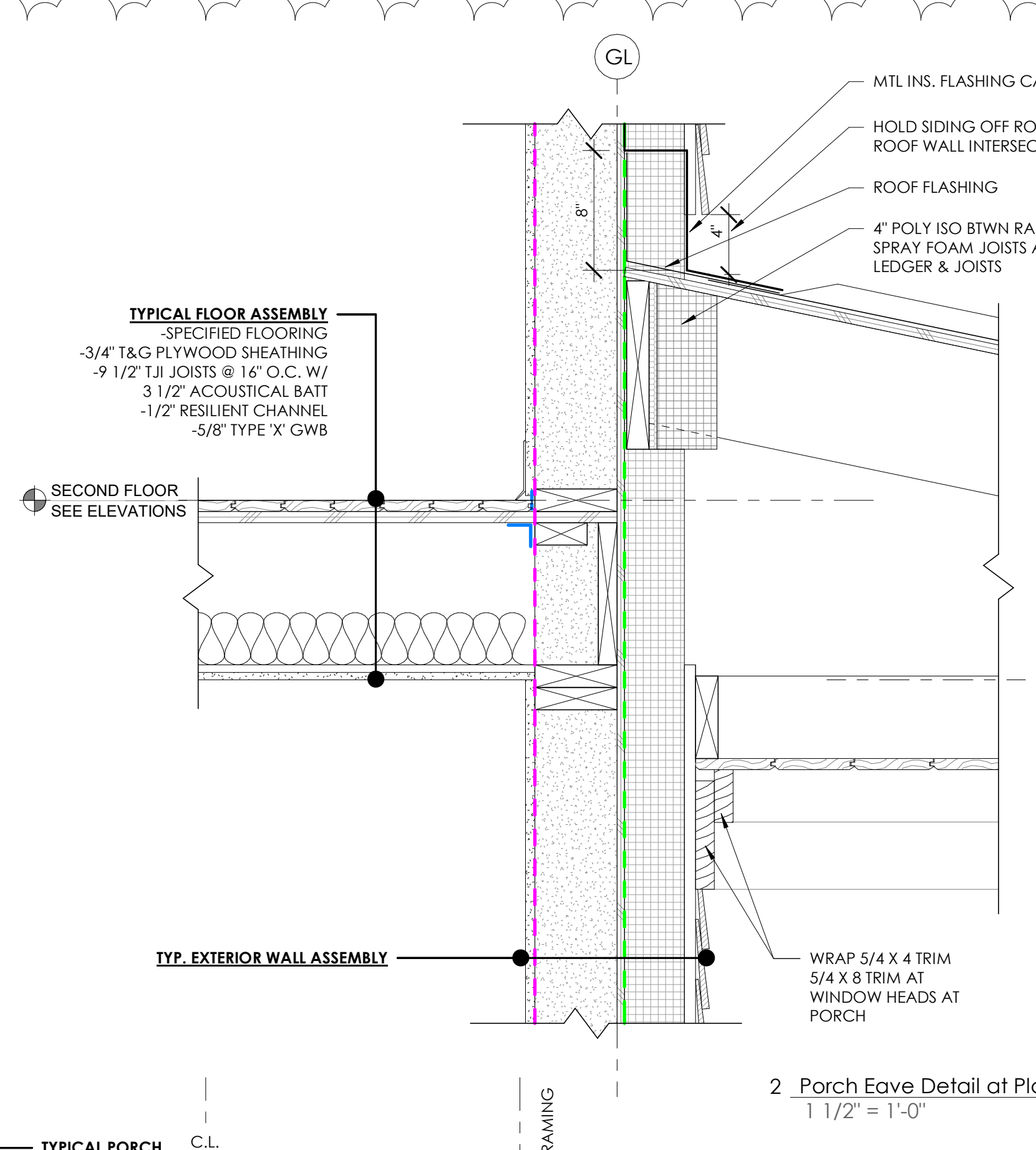
Main Street,
 Meriden, NH 03770

WELCH DETAILS

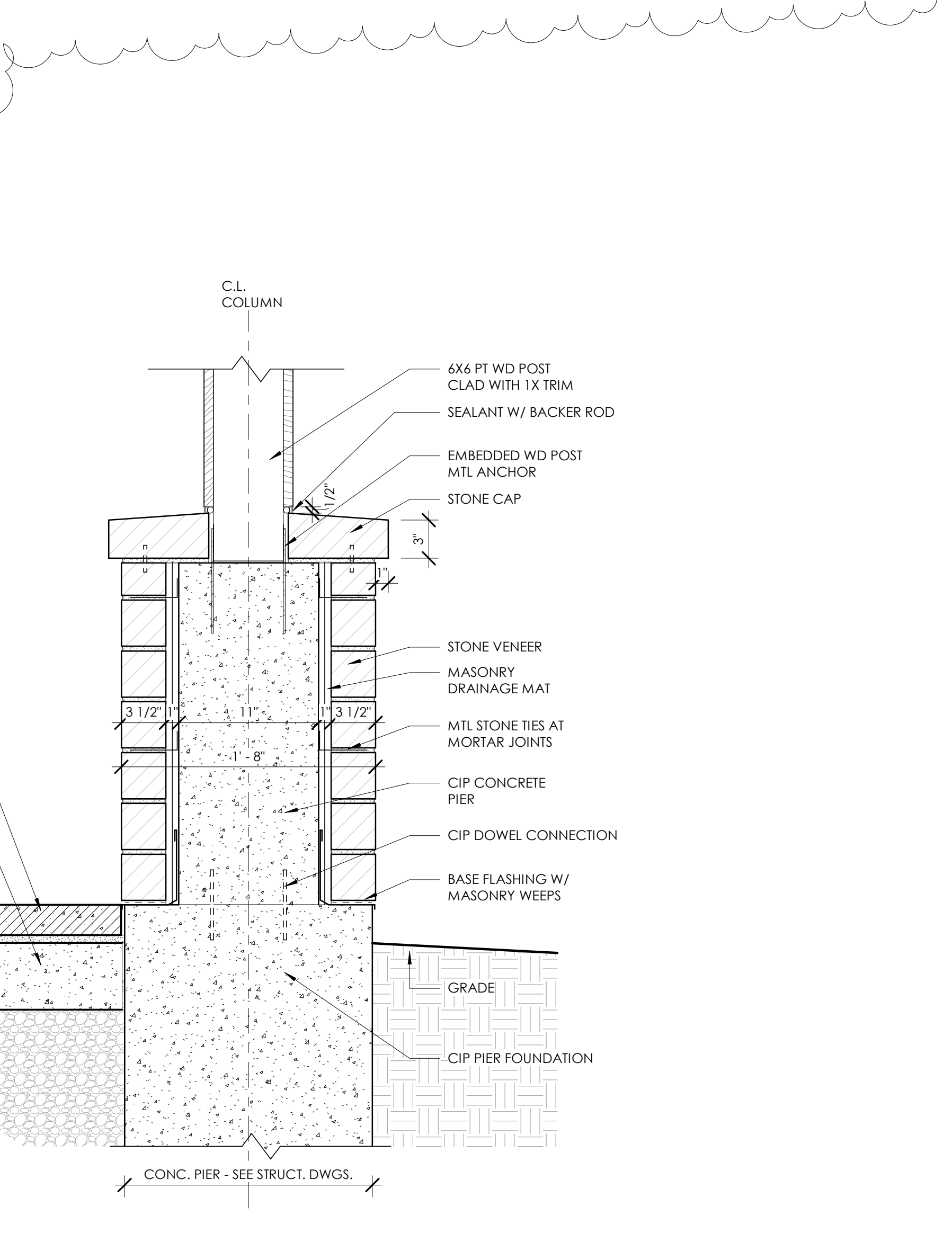
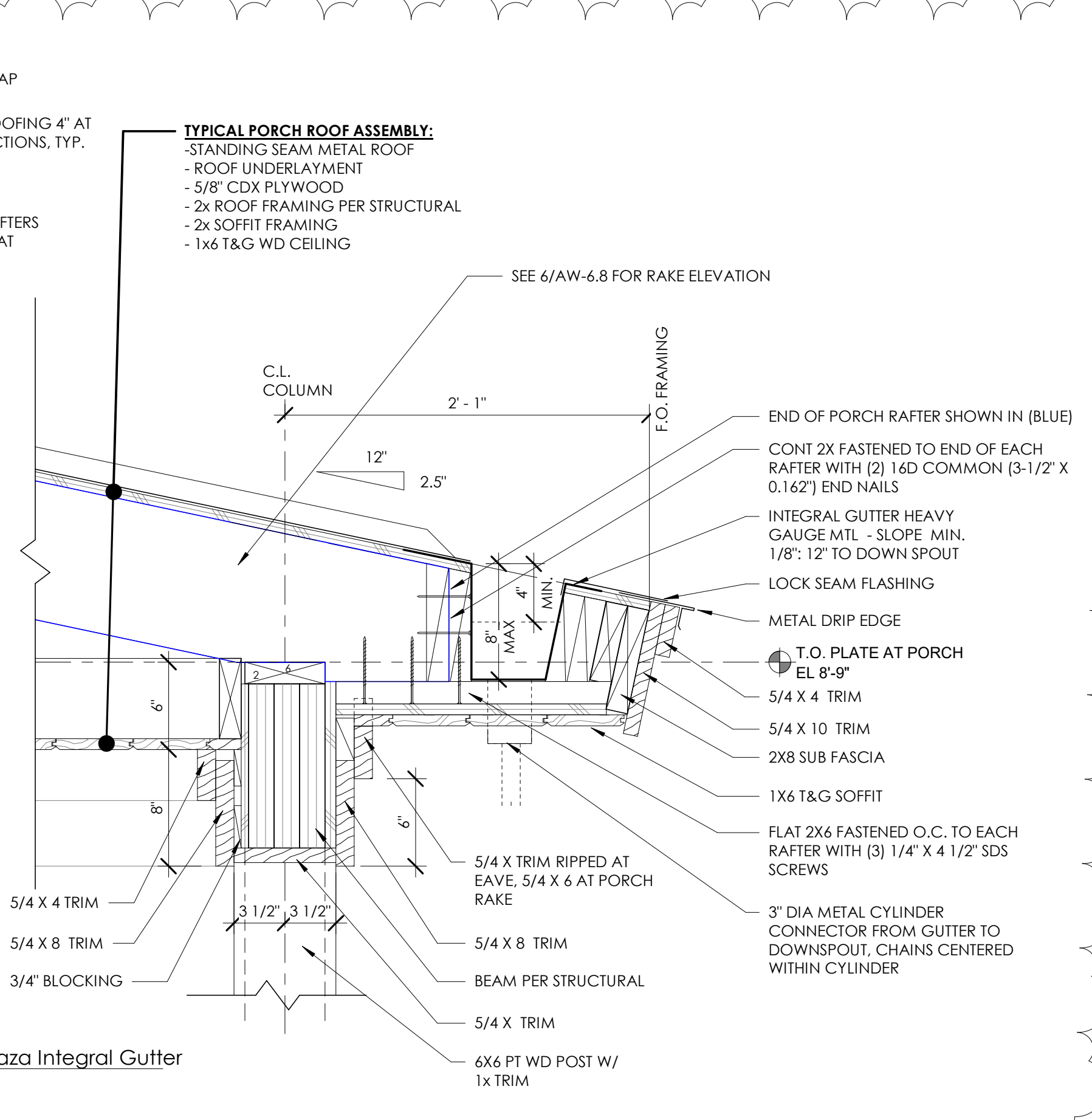
AW-6.6



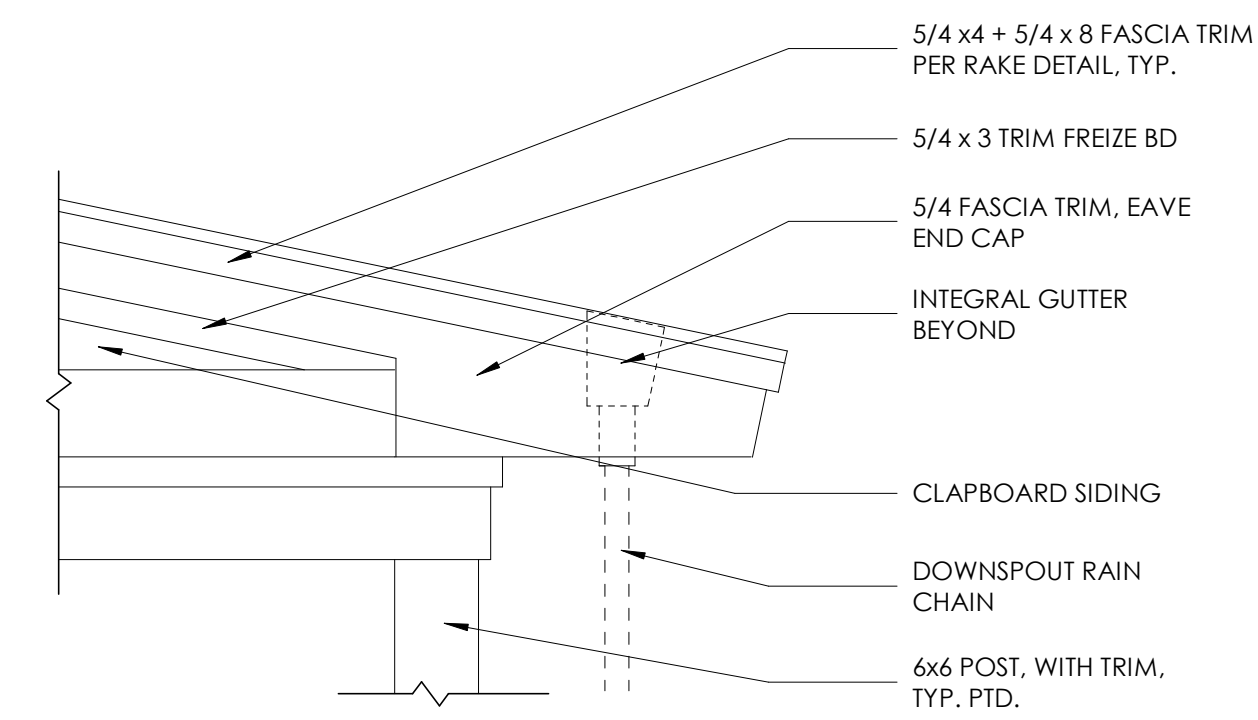
3 Deck Edge @ Faculty Residence
 1 1/2" = 1'-0"



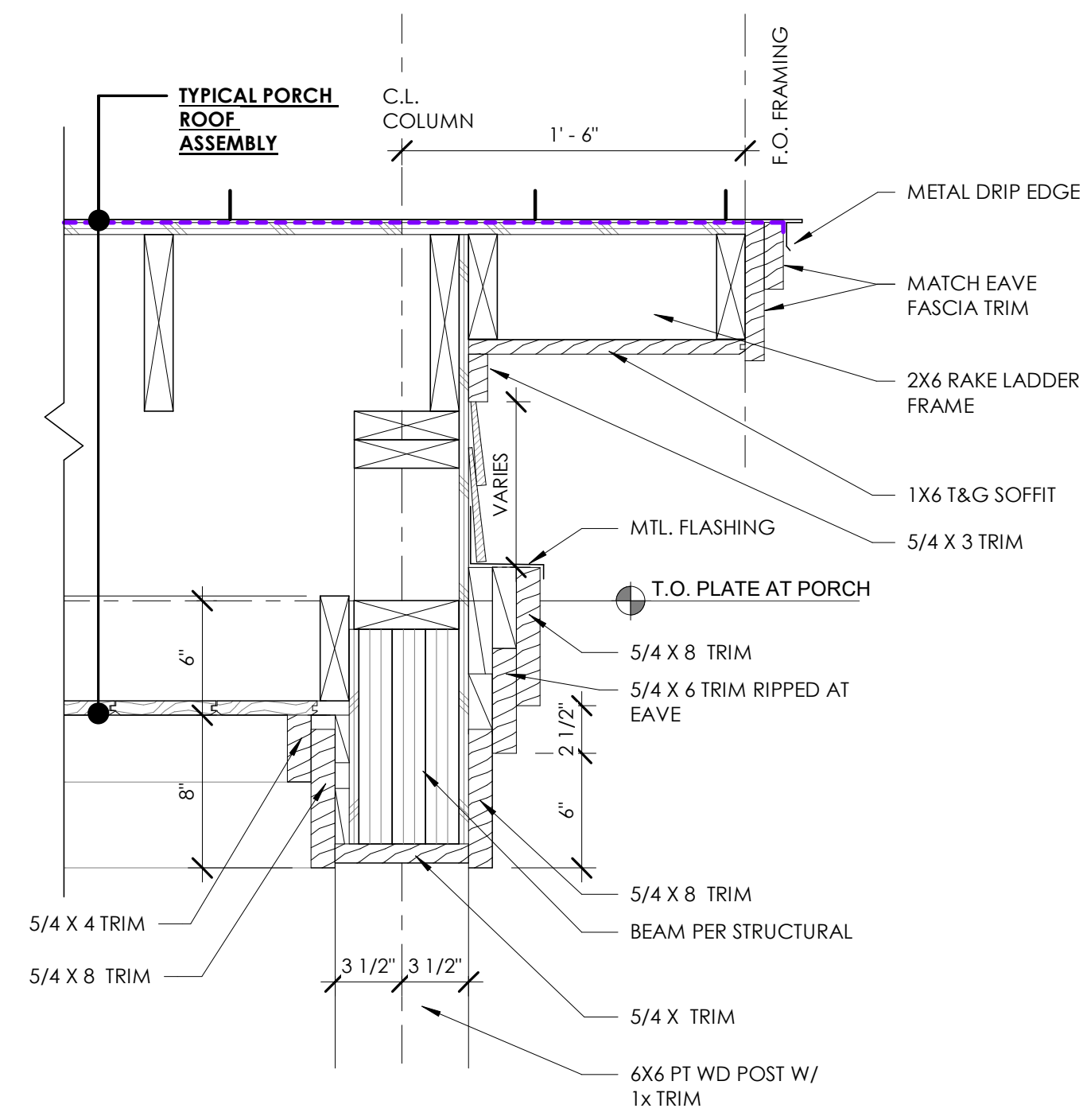
2A Roof Flashing Detail @ New Ext. Wall
 1 1/2" = 1'-0"



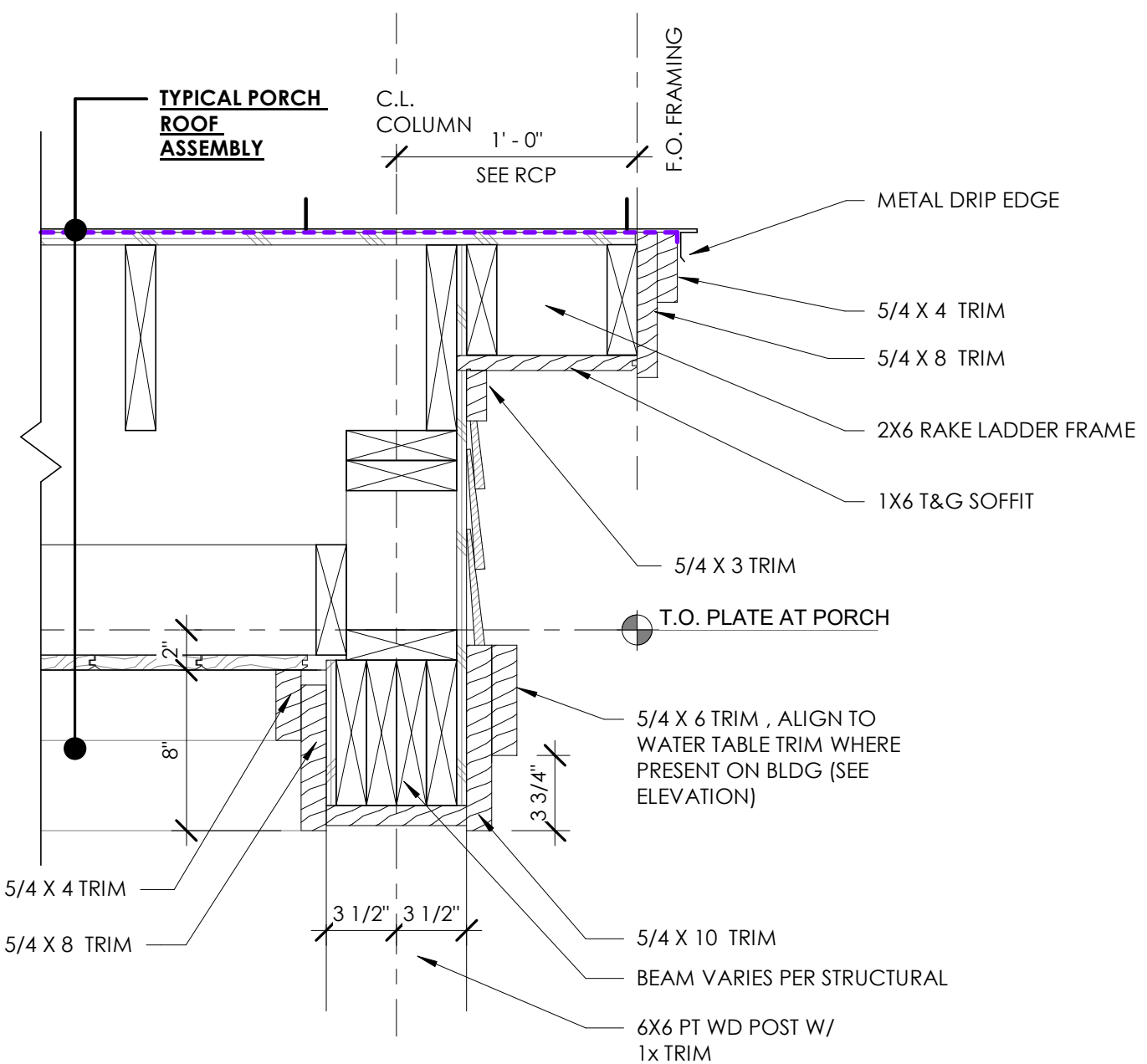
1 Typical Porch Pier Detail
 1 1/2" = 1'-0"



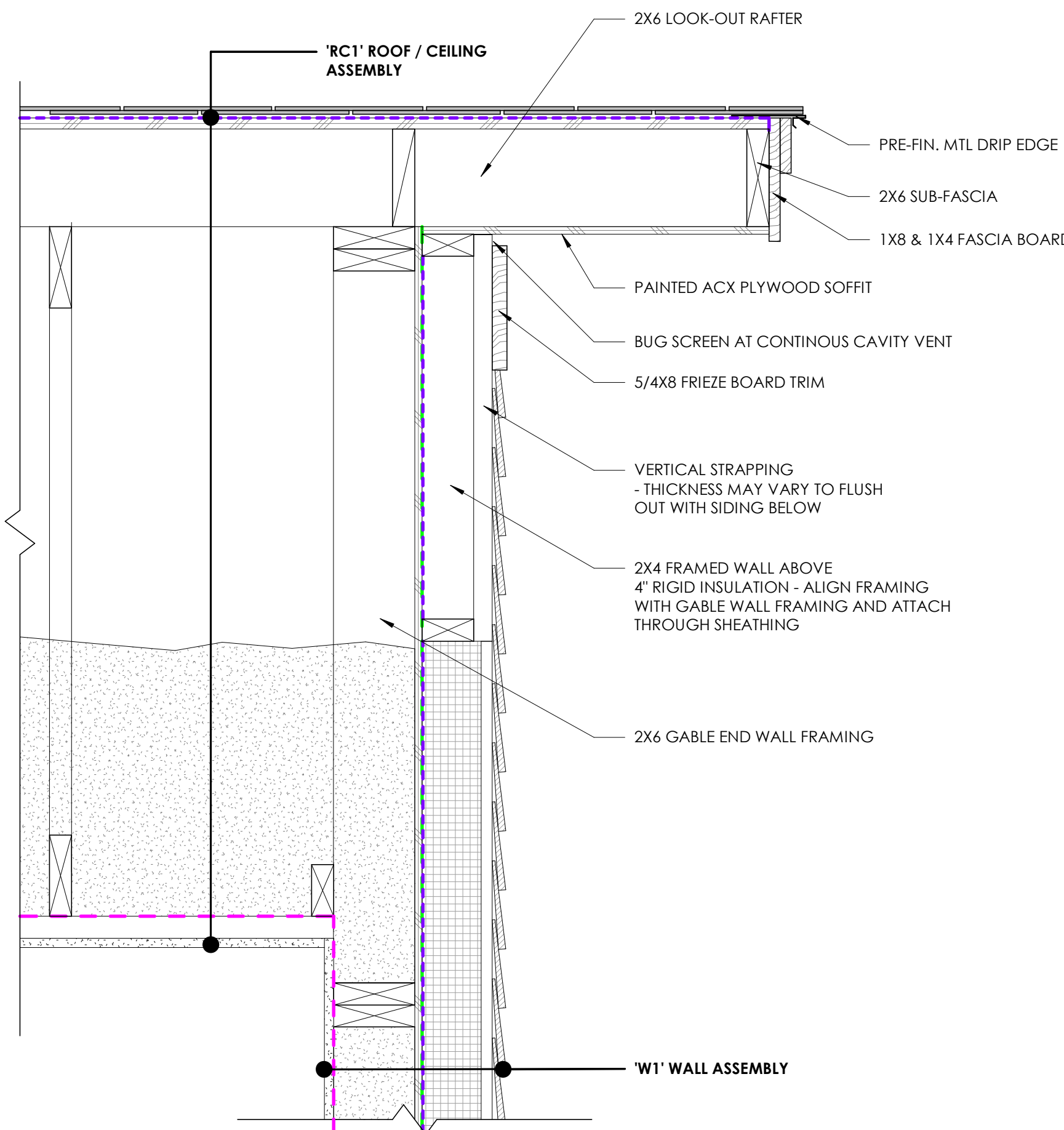
6 Porch Rake Detail at Plaza Integral Gutter
3/4" = 1'-0"



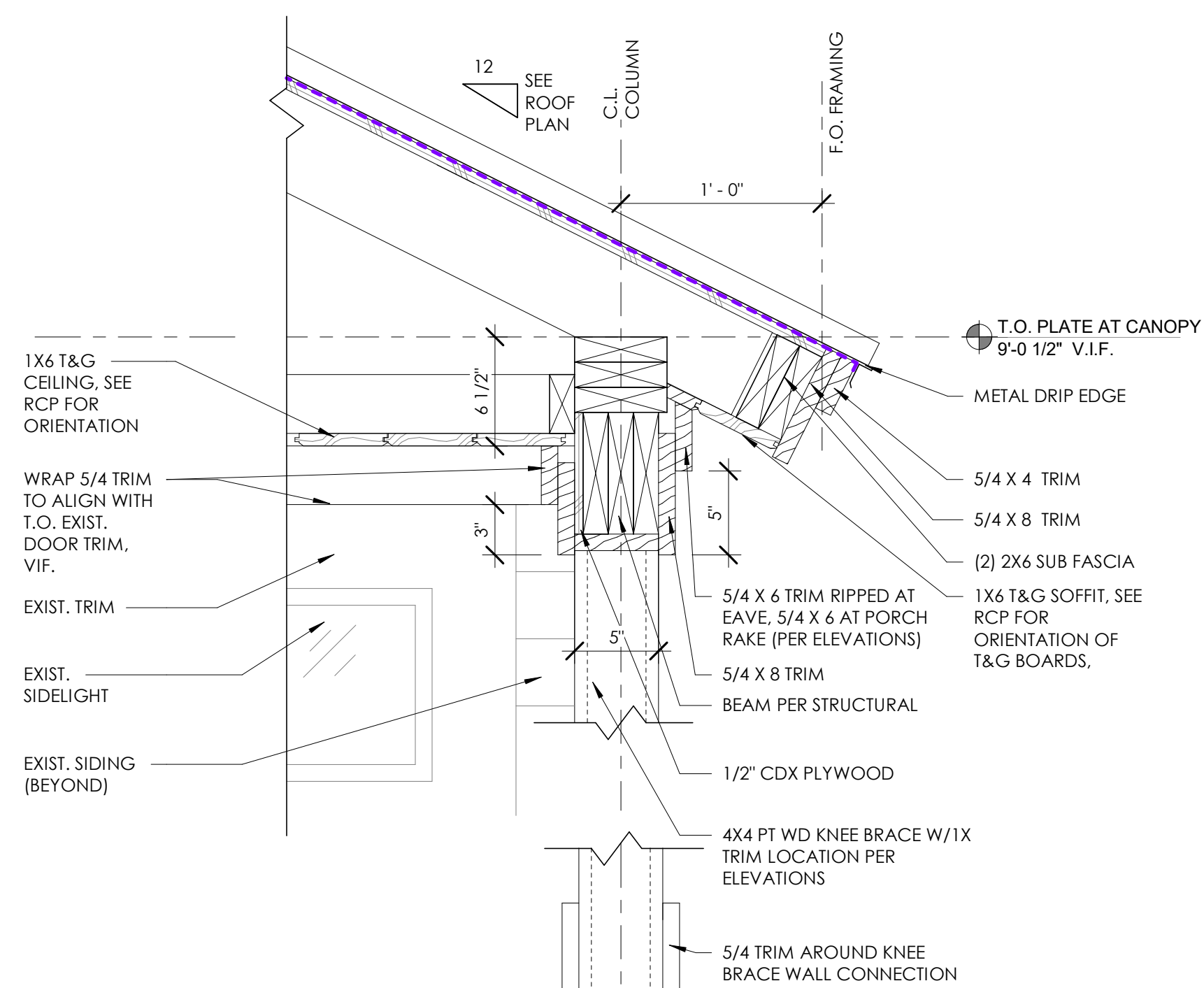
7 Porch Rake at Plaza Integral Gutter
1 1/2" = 1'-0"



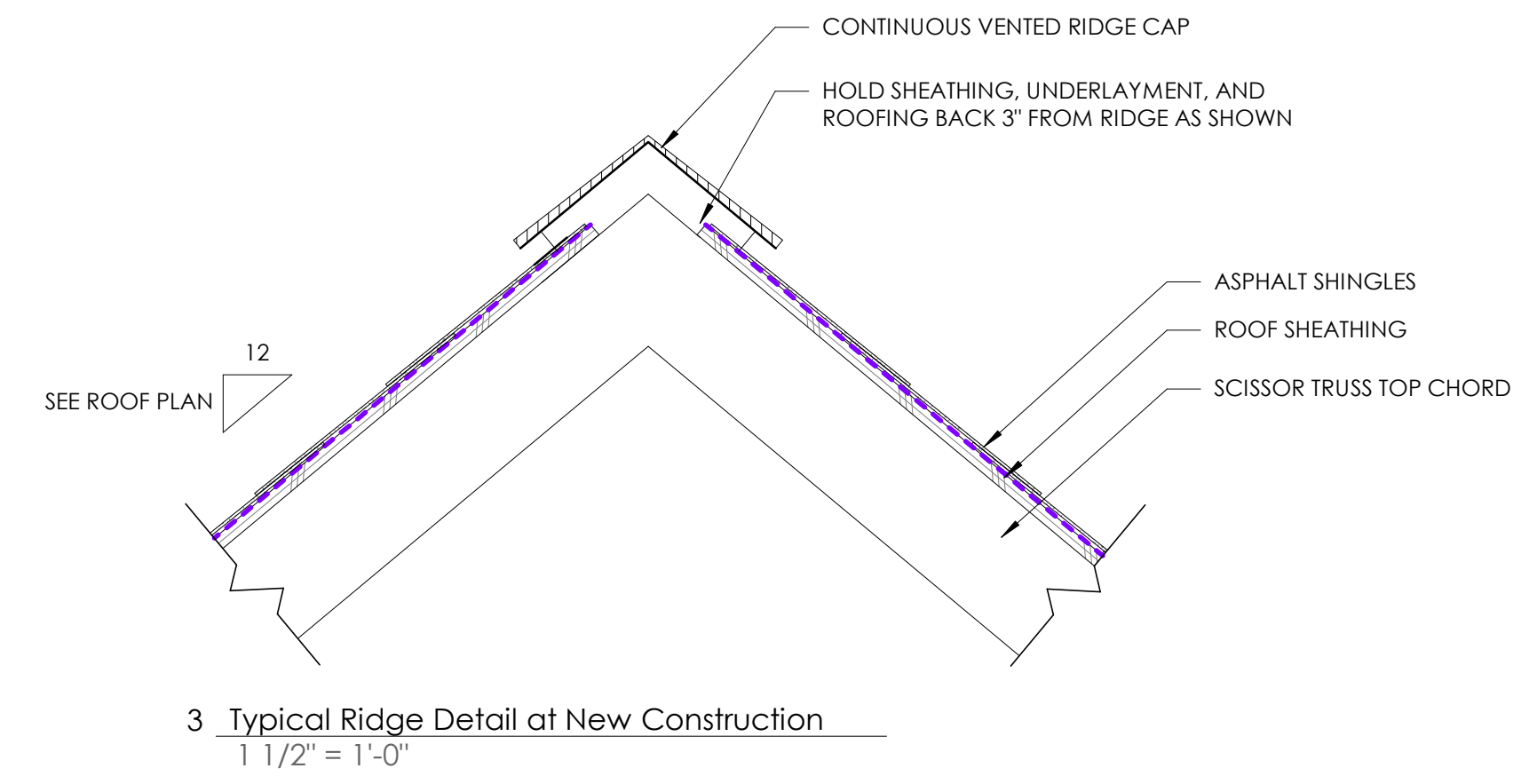
8 Canopy Rake Detail
1 1/2" = 1'-0"



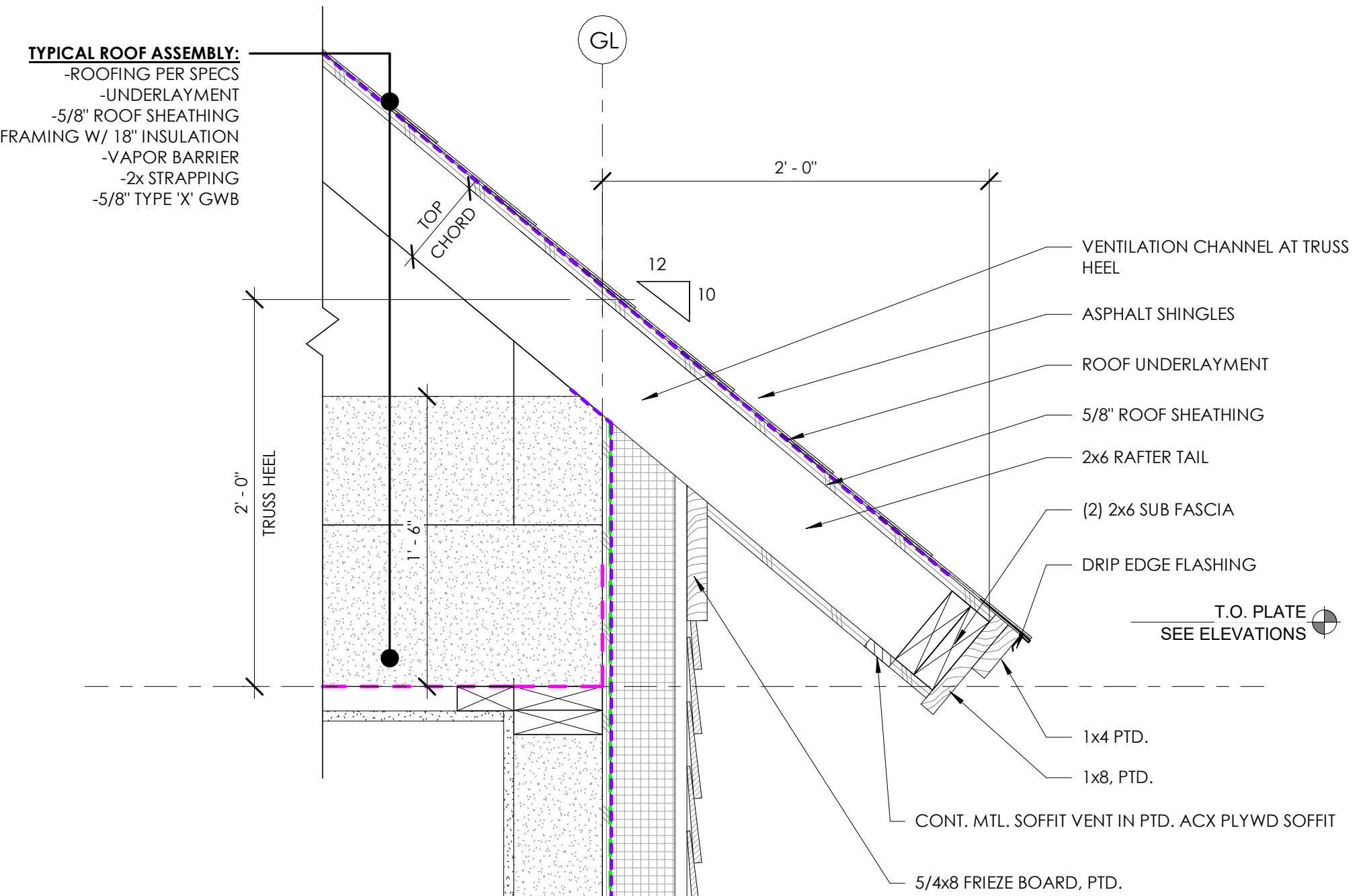
5 Typical Rake Detail at Main Roof
1 1/2" = 1'-0"



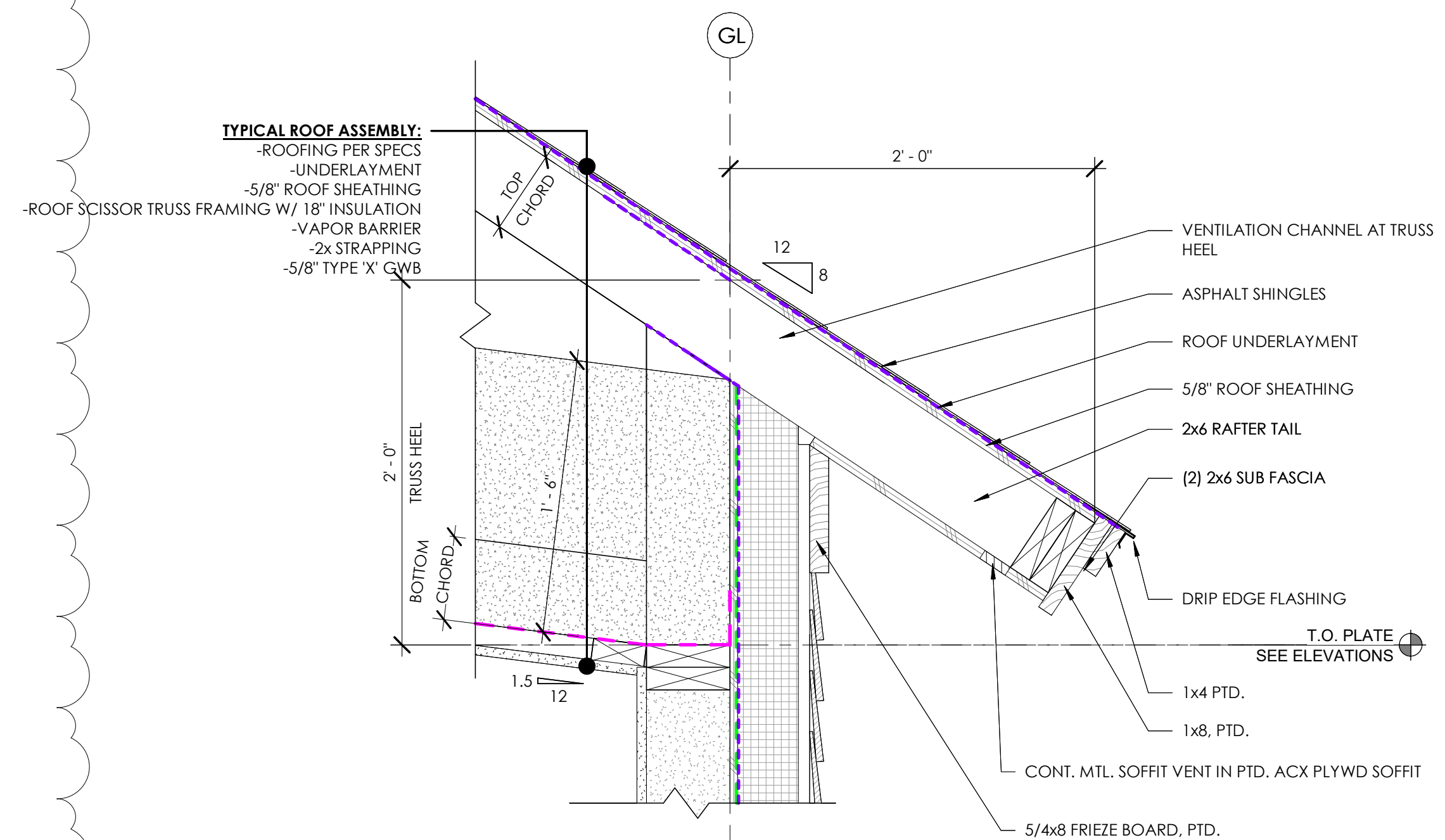
4 Welch Gable Canopy Eave @ Exist. Faculty Residence - ADD ALTERNATE #4
1 1/2" = 1'-0"



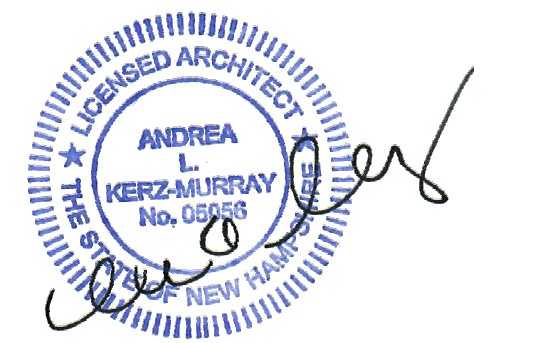
3 Typical Ridge Detail at New Construction
1 1/2" = 1'-0"



2 New Roof Eave Detail - Faculty Residence
1 1/2" = 1'-0"



1 New Roof Eave Detail - Dorm
1 1/2" = 1'-0"



DATE ISSUED: 05/15/23
Drawn: JG
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#	Date	Description
2	05/15/23	Scope Changes to Bid Set #1

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DORMITORIES

Main Street,
Meriden, NH 03770

WELCH
ROOF DETAILS

AW-6.8

CIVIL ENGINEER

Nicholas Fiore, P.E.
Engineering Ventures
nikf@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E.
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER

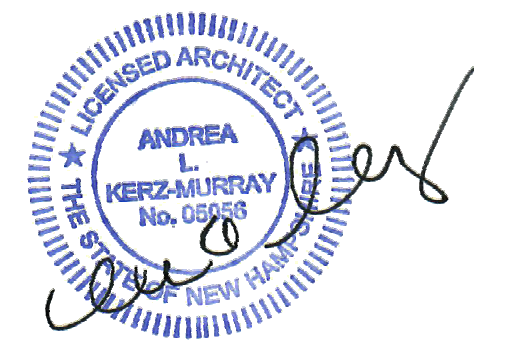
Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvllc.com
802.885.8091

ELECTRICAL ENGINEER

Claus Barstenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.barstenstein@esvllc.com
802.885.8091

CONSTRUCTION MANAGER

Calvin Russell, Senior Project Manager
ReArch Company, Inc.
calvin@rearchcompany.com
802.863.8727



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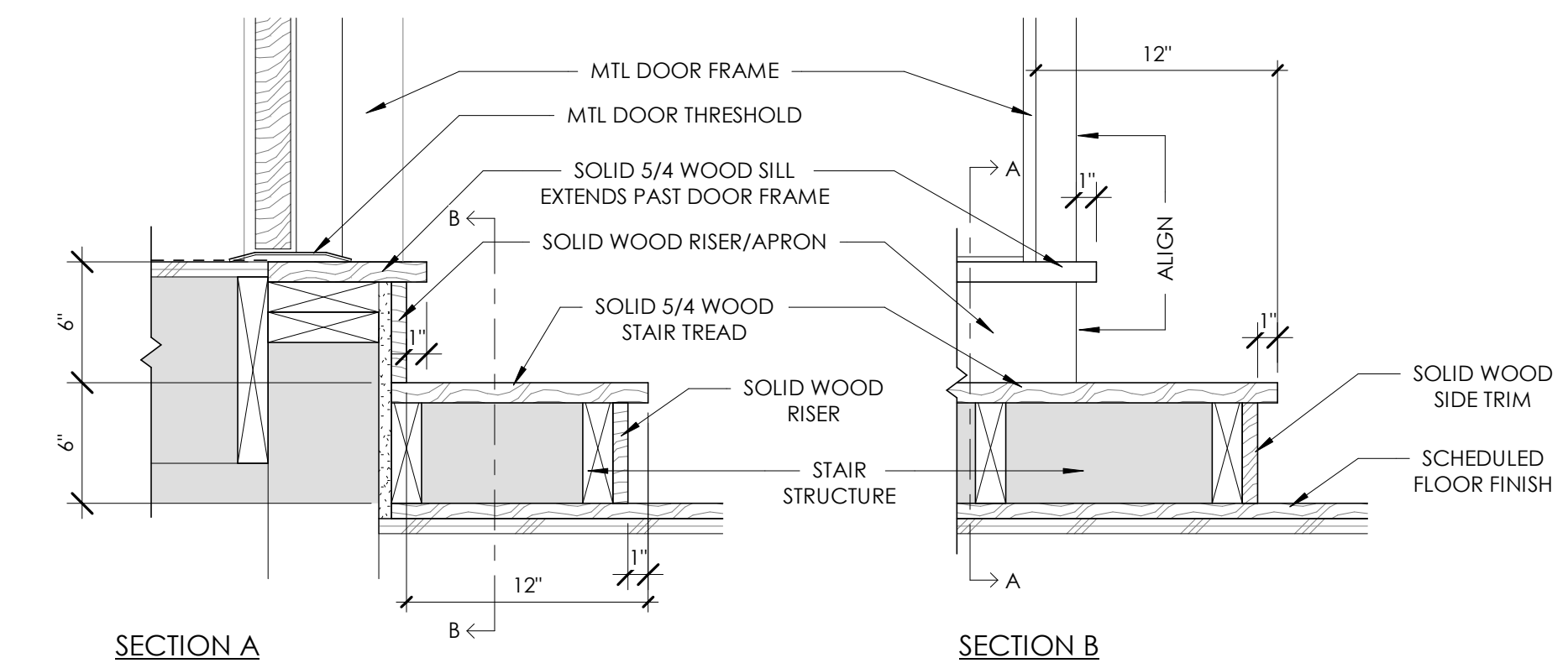
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KILTON/WELCH
DORMITORIES**

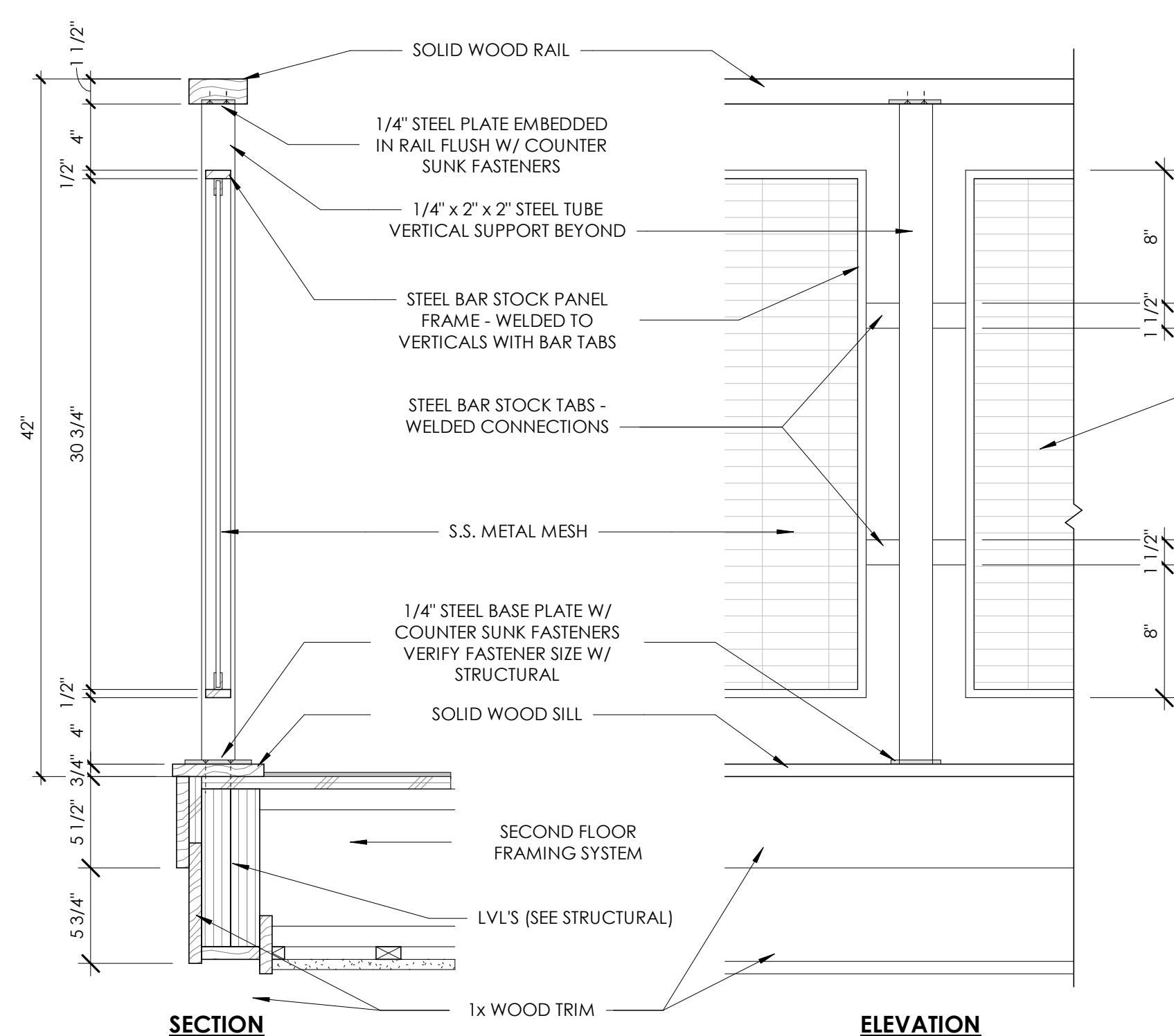
Main Street,
Meriden, NH 03770

**WELCH
INTERIOR DETAILS**

AW-6.10



2 Faculty Res - Step Detail
1 1/2" = 1'-0"

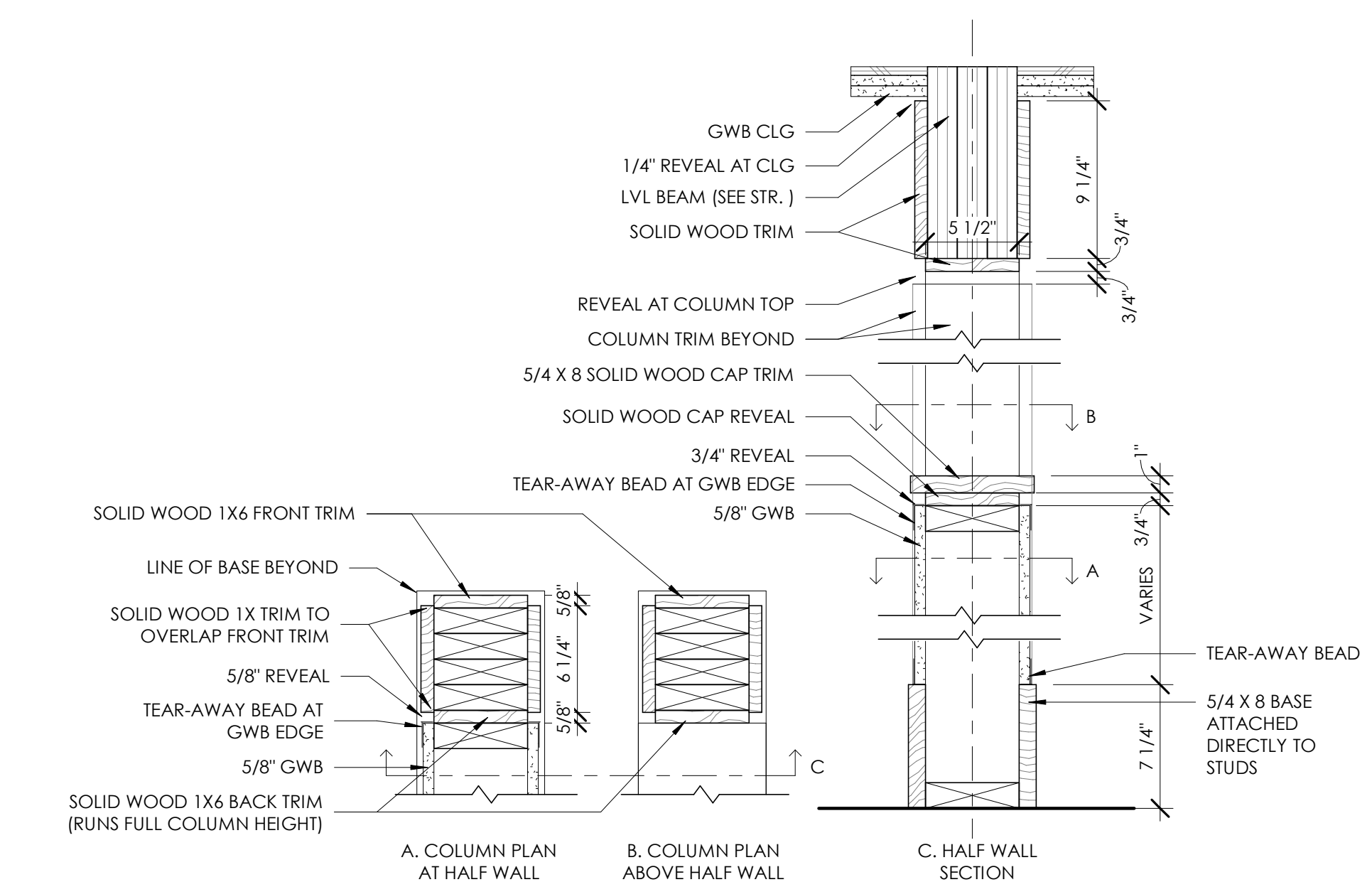


3 Lounge 211 Railing Details
1 1/2" = 1'-0"

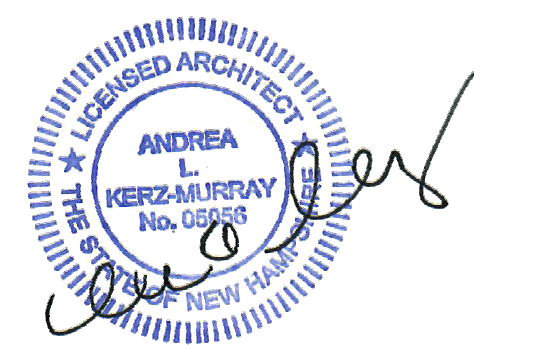
Structural Performance: Provide railings capable of withstanding the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:

- Uniform load of 50 lbf/ft. applied in any direction.
- Concentrated load of 200 lbf. applied in any direction.
- Uniform and concentrated loads need not be assumed to act concurrently.

- Top Rails of Guards:
 - Uniform load of 50 lbf/ft. applied in any direction.
 - Concentrated load of 200 lbf. applied in any direction.
 - Uniform and concentrated loads need not be assumed to act concurrently.
- Infill Area of Guards:
 - Horizontal concentrated load of 50 lbf. applied to 1 sq. ft. of any point in system, including panels, intermediate rails, balusters, or other elements composing infill area. Load on infill area need not be assumed to act concurrently with loads on top rails.



1 Half Wall / Column
1 1/2" = 1'-0"



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PERMIT SET 05/15/2023

KUA
KILTON/WELCH
DORMITORIES

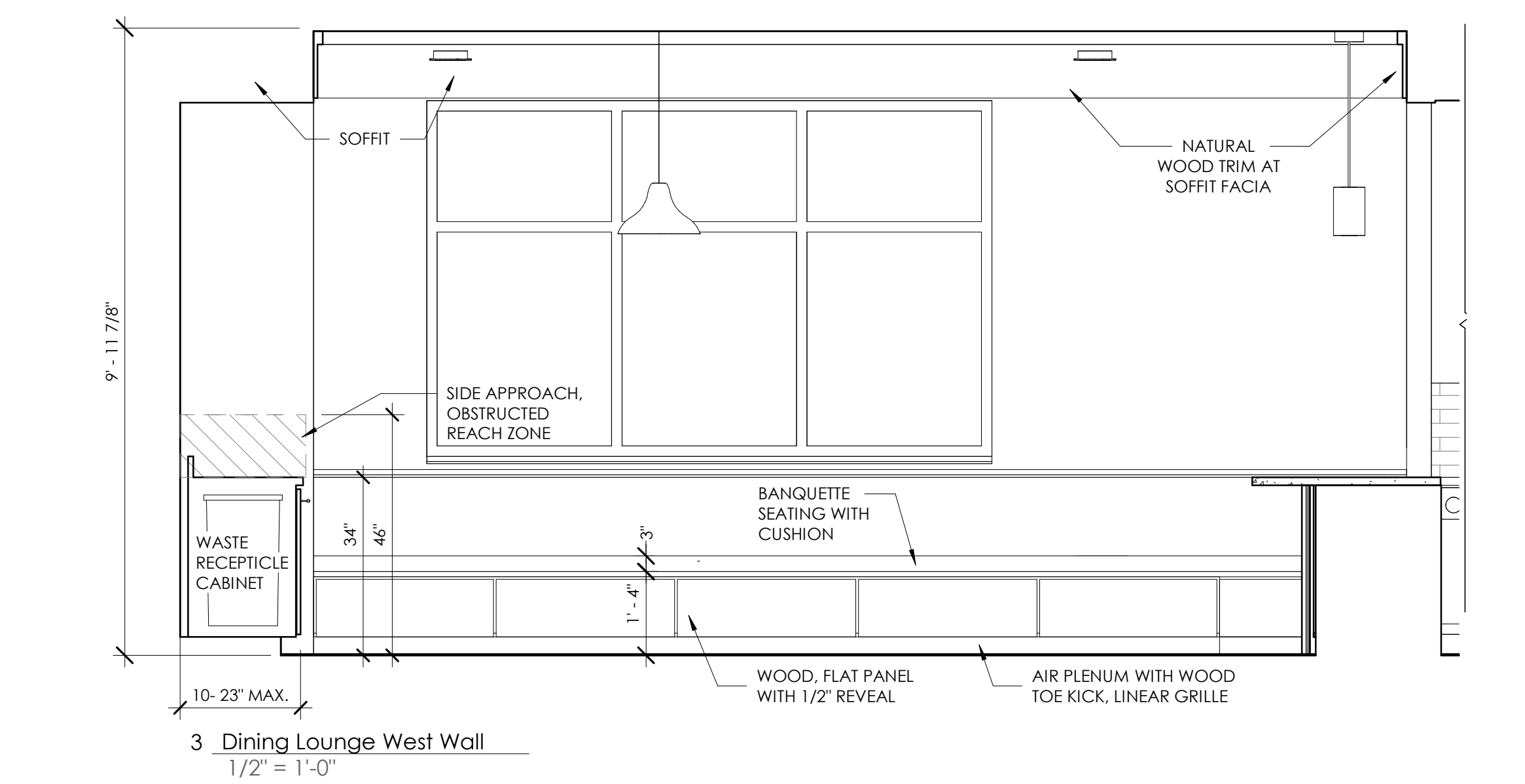
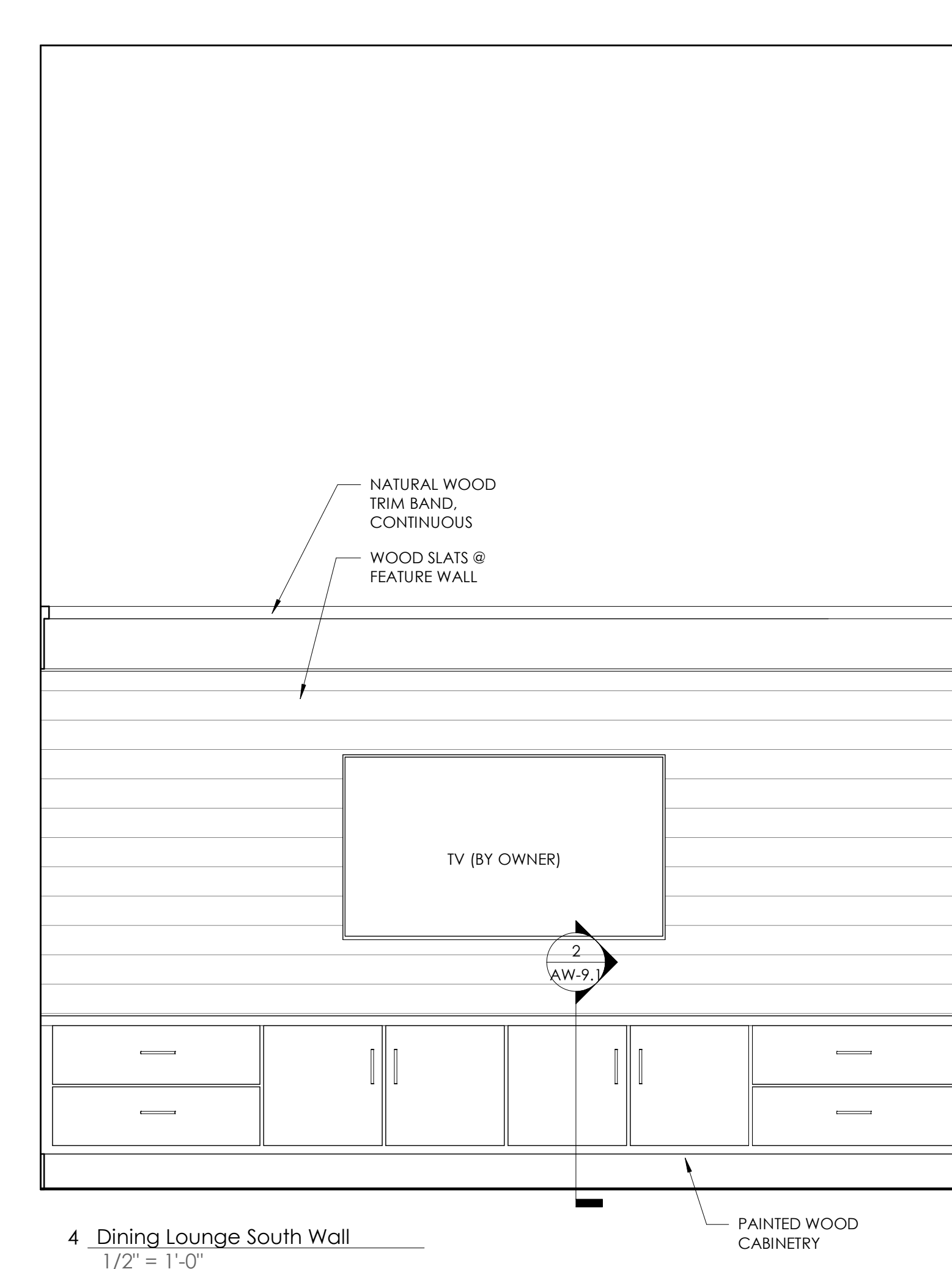
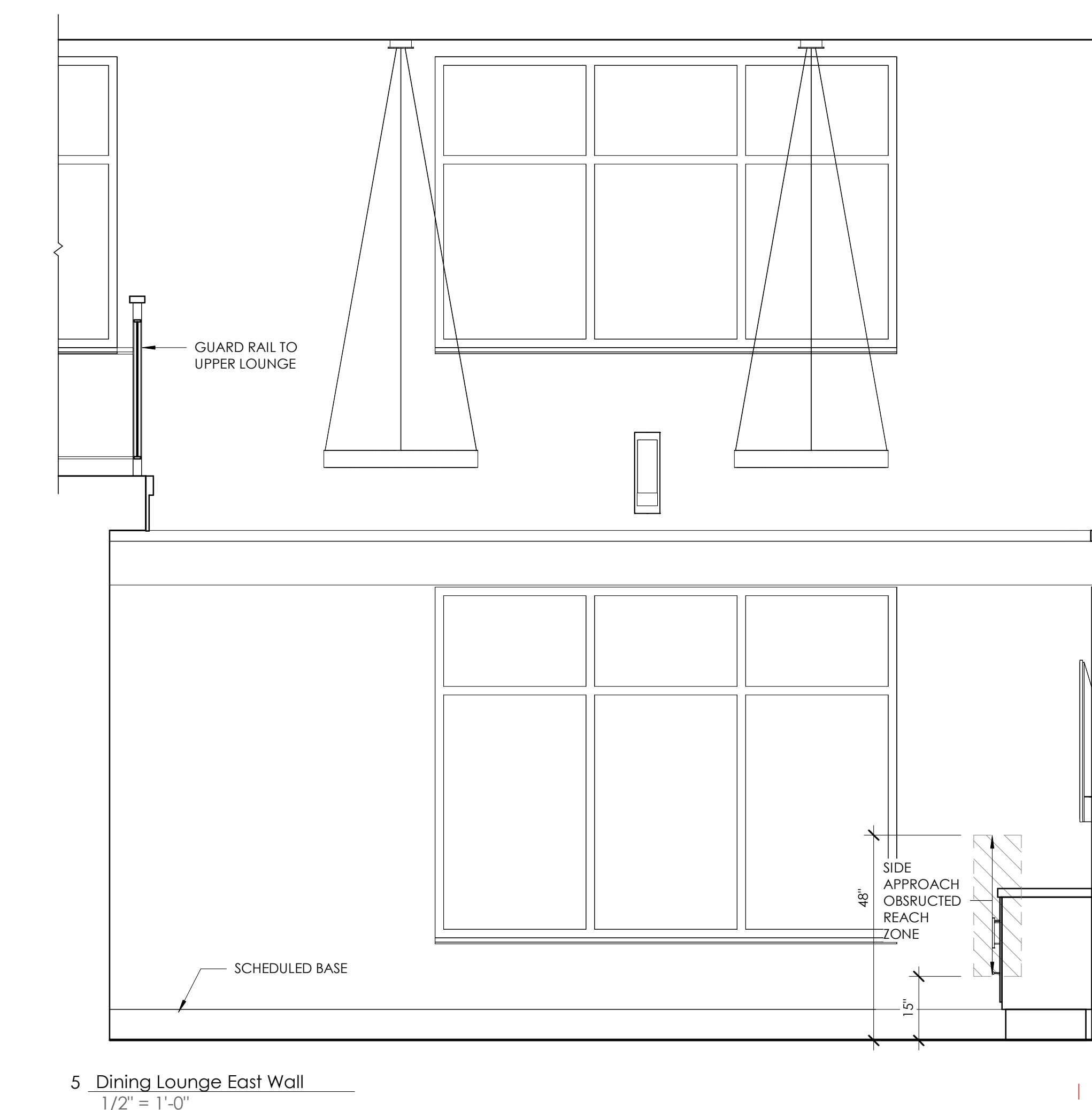
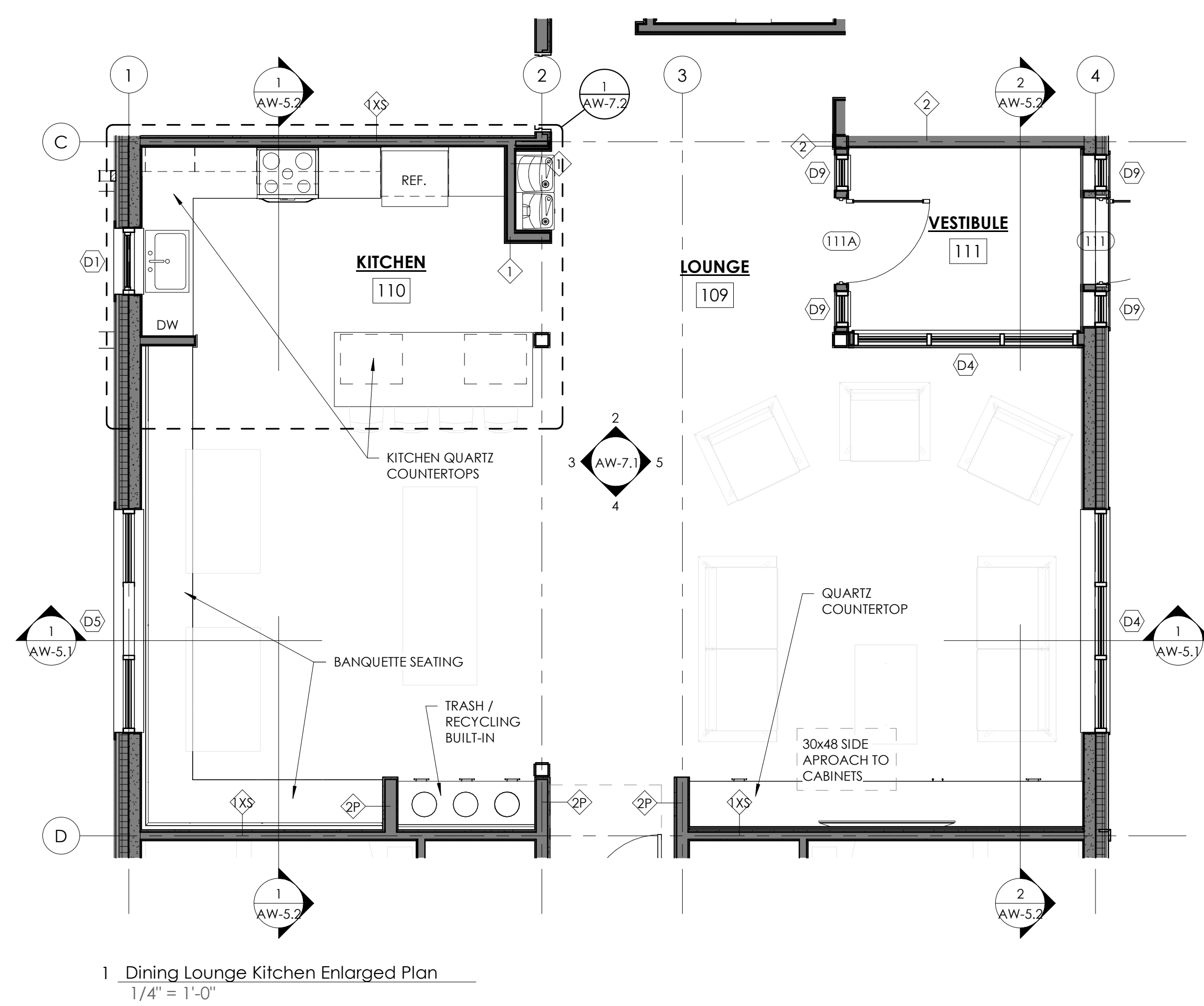
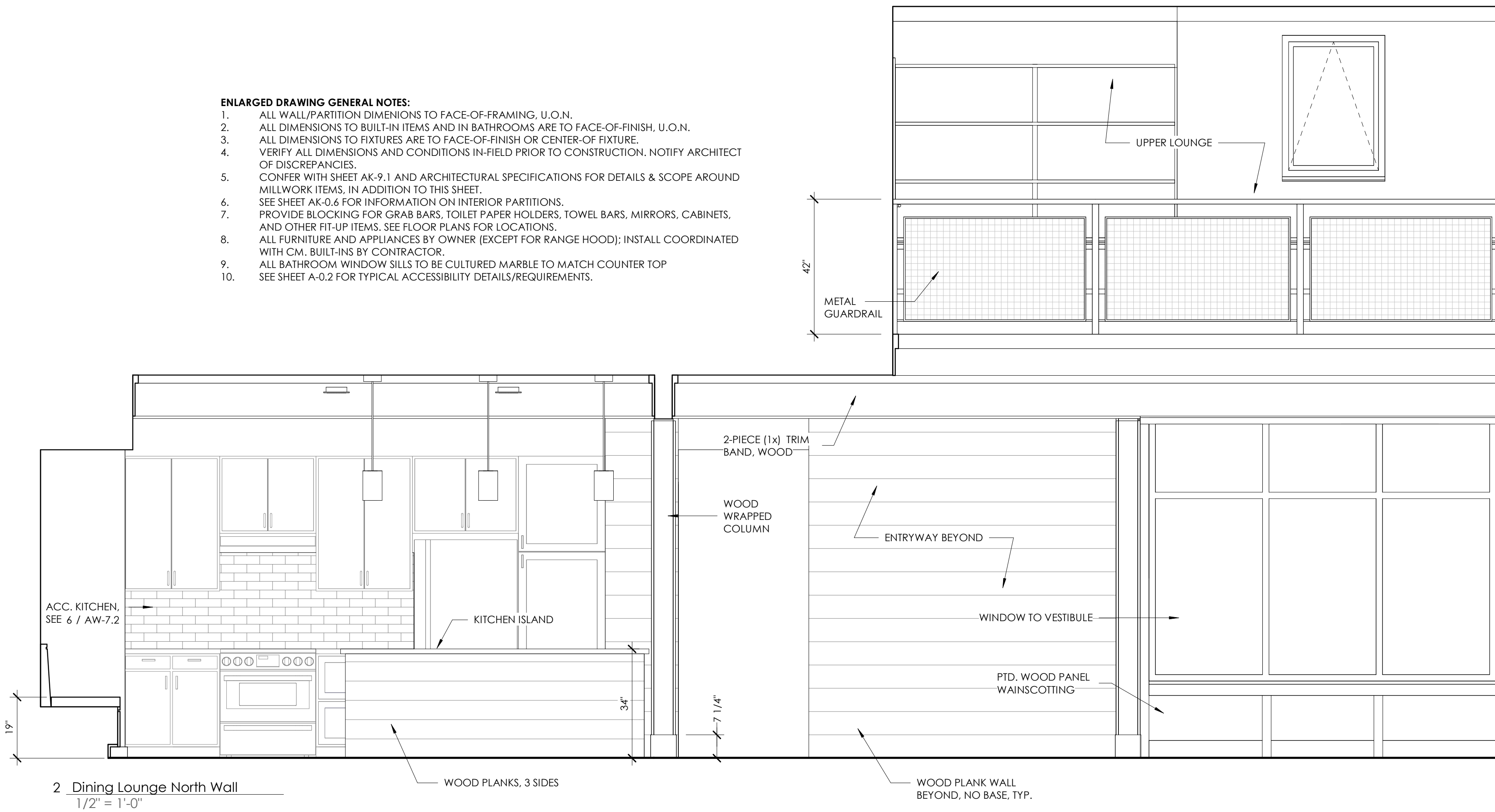
Main Street,
Meriden, NH 03770

WELCH
ENLARGED
COMMON AREA
DRAWINGS

AW-7.1

ENLARGED DRAWING GENERAL NOTES:

1. ALL WALL/PARTITION DIMENSIONS TO FACE-OF-FRAMING, U.O.N.
2. ALL DIMENSIONS TO BUILT-IN ITEMS AND IN BATHROOMS ARE TO FACE-OF-FINISH, U.O.N.
3. ALL DIMENSIONS TO FIXTURES ARE TO FACE-OF-FINISH OR CENTER-OF-FIXTURE.
4. VERIFY ALL DIMENSIONS AND CONDITIONS IN-FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF DISCREPANCIES.
5. CONFER WITH SHEET AK-9.1 AND ARCHITECTURAL SPECIFICATIONS FOR DETAILS & SCOPE AROUND MILLWORK ITEMS. IN ADDITION TO THIS SHEET.
6. SEE SHEET AK-0.6 FOR INFORMATION ON INTERIOR PARTITIONS.
7. PROVIDE BLOCKING FOR GRAB BARS, TOILET PAPER HOLDERS, TOWEL BARS, MIRRORS, CABINETS, AND OTHER FIT-UP ITEMS. SEE FLOOR PLANS FOR LOCATIONS.
8. ALL FURNITURE AND APPLIANCES BY OWNER (EXCEPT FOR RANGE HOOD); INSTALL COORDINATED WITH CM. BUILT-INS BY CONTRACTOR.
9. ALL BATHROOM WINDOW SILLS TO BE CULTURED MARBLE TO MATCH COUNTER TOP
10. SEE SHEET A-0.2 FOR TYPICAL ACCESSIBILITY DETAILS/REQUIREMENTS.





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#	Date	Description

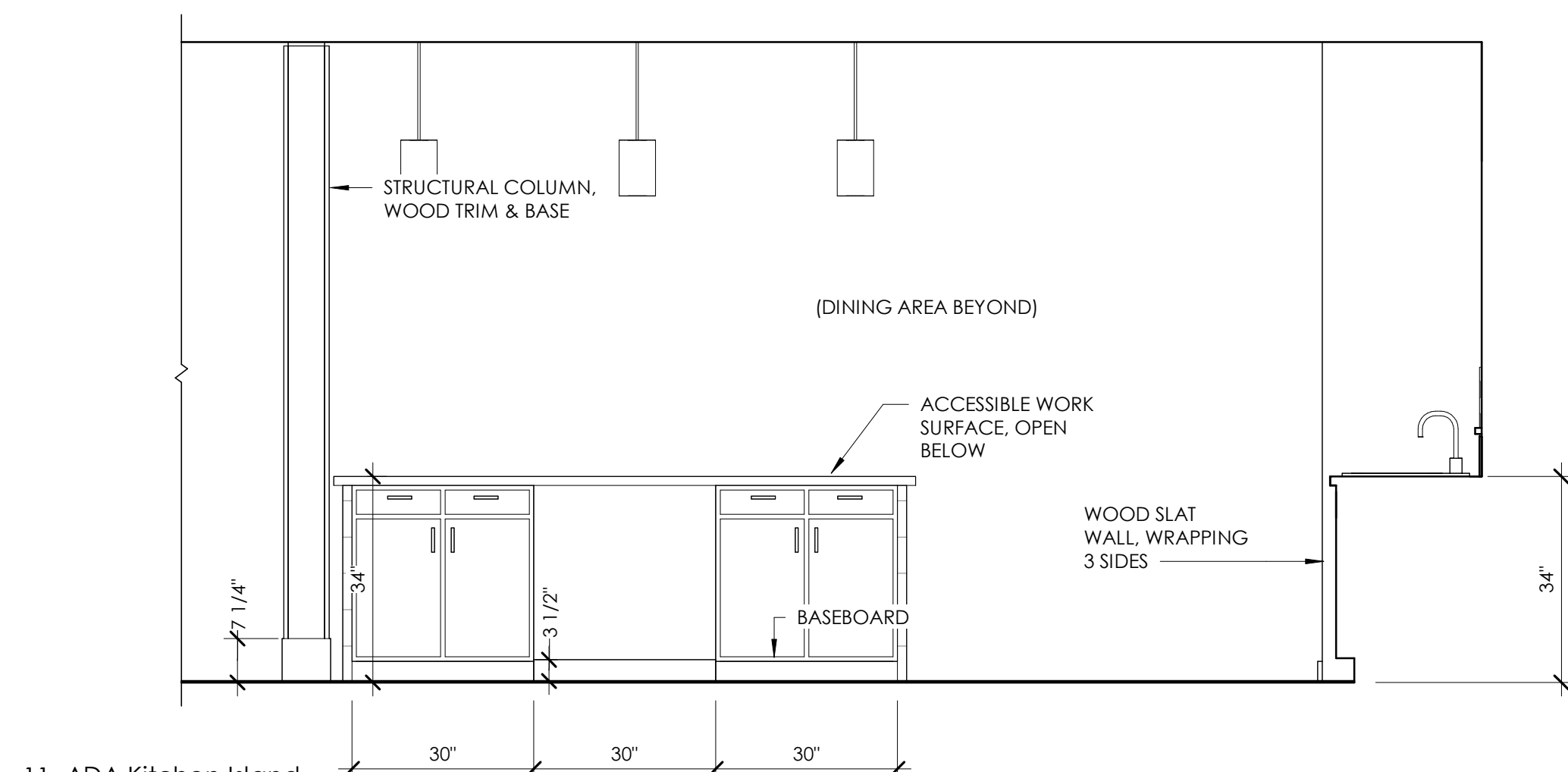
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KUA
KILTON/WELCH
DORMITORIES

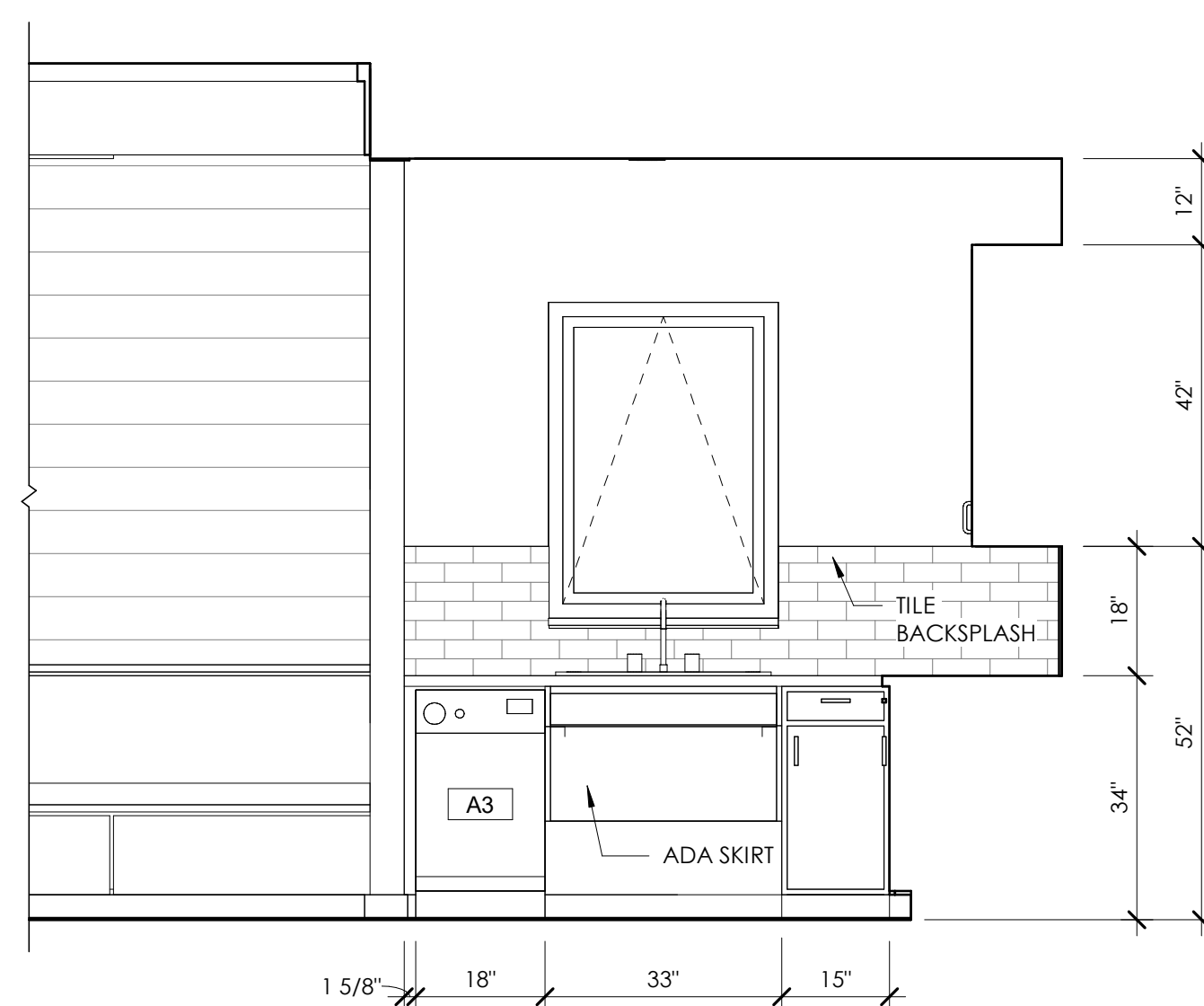
Main Street,
Meriden, NH 03770

WELCH
ENLARGED PLANS
& ELEVATIONS
GEAR & KITCHEN

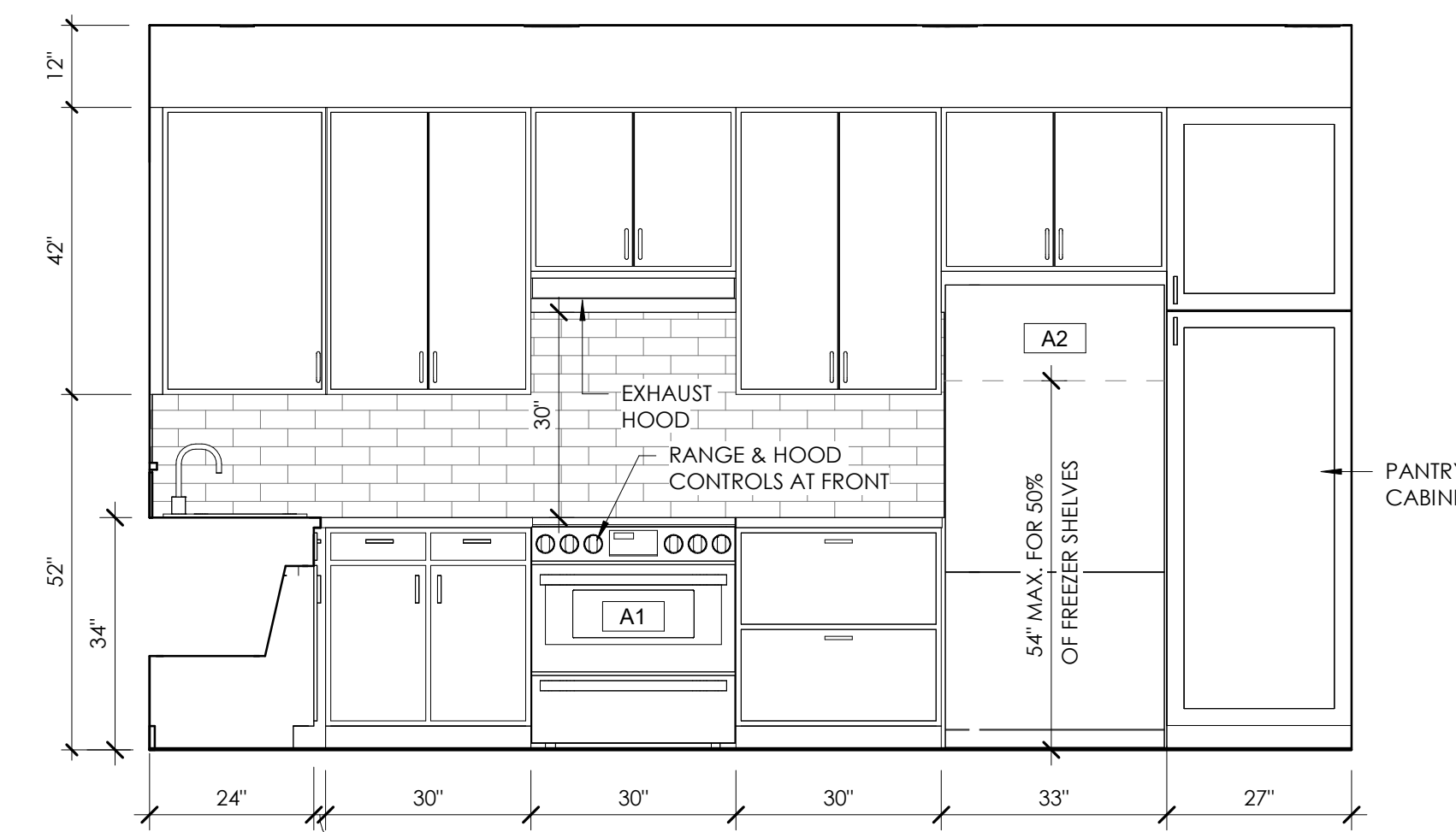
AW-7.2



11 ADA Kitchen Island
1/2" = 1'-0"



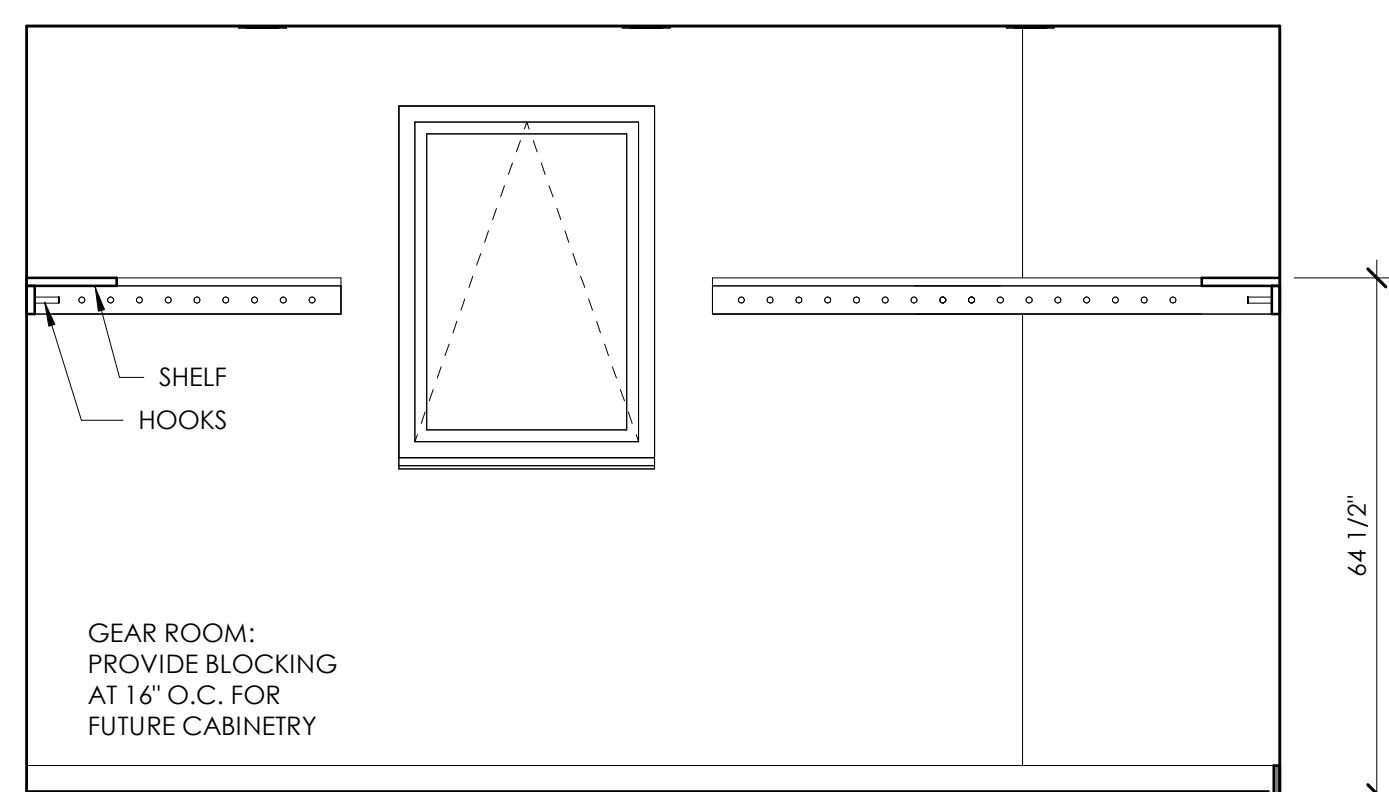
8 ADA Kitchen West Wall
1/2" = 1'-0"



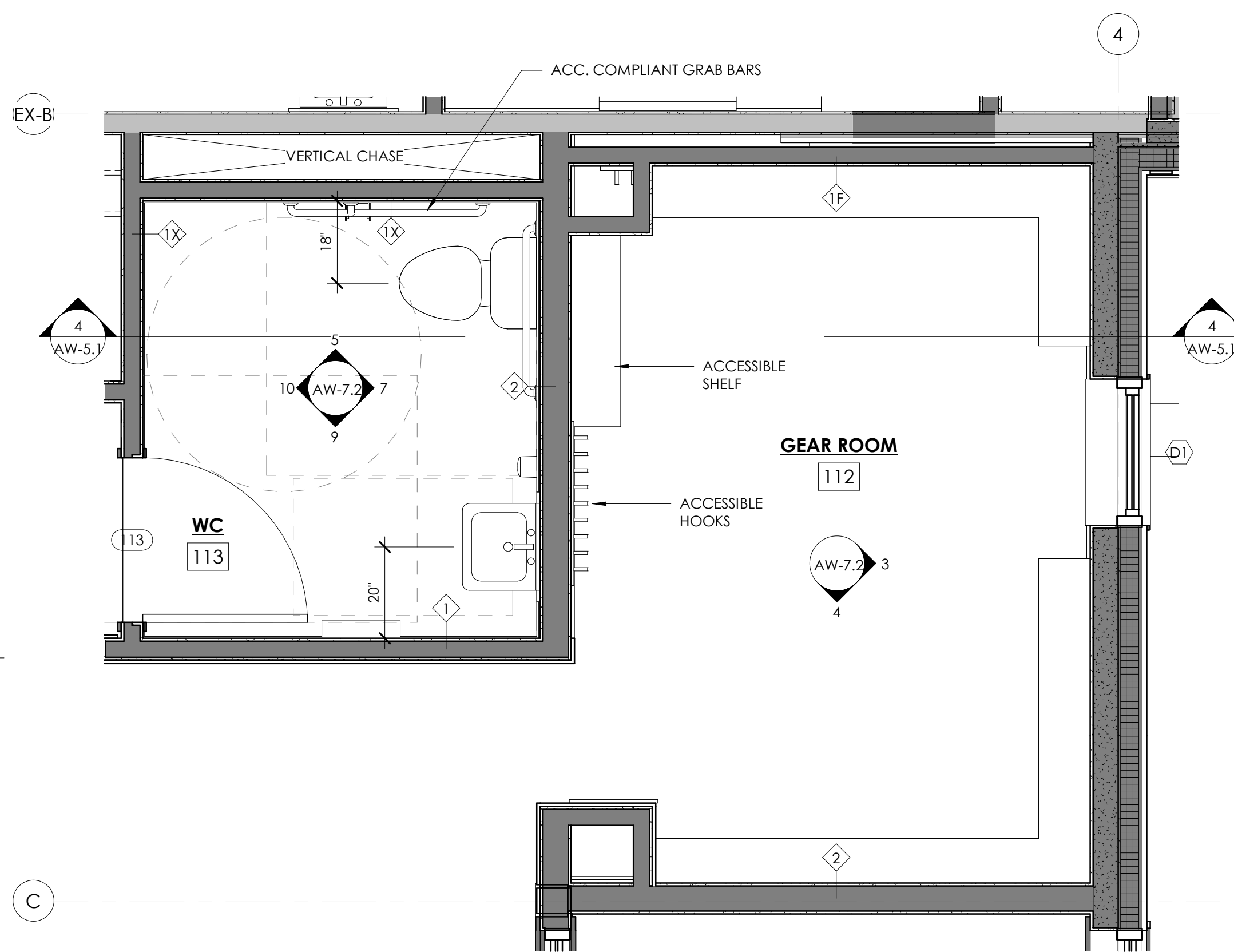
6 ADA Kitchen North Wall
1/2" = 1'-0"

ENLARGED DRAWING GENERAL NOTES:

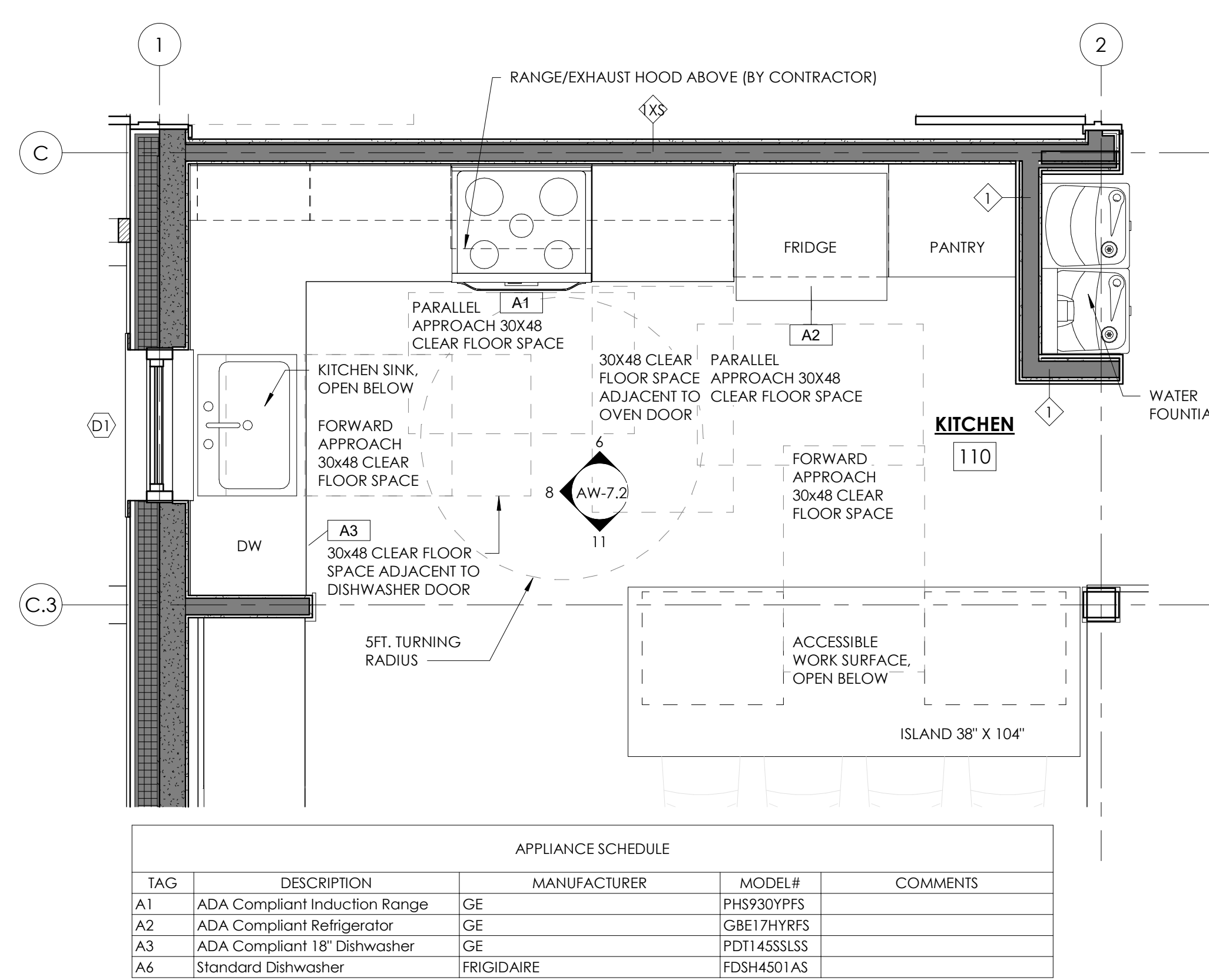
1. ALL WALL/PARTITION DIMENSIONS TO FACE-OF-FRAMING, U.O.N.
2. ALL DIMENSIONS TO BUILT-IN ITEMS AND IN BATHROOMS ARE TO FACE-OF-FINISH, U.O.N.
3. ALL DIMENSIONS TO FIXTURES ARE TO FACE-OF-FINISH OR CENTER-OF-FIXTURE.
4. VERIFY ALL DIMENSIONS AND CONDITIONS IN-FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF DISCREPANCIES.
5. CONFER WITH SHEET AK-9.1 AND ARCHITECTURAL SPECIFICATIONS FOR DETAILS & SCOPE AROUND MILLWORK ITEMS. IN ADDITION TO THIS SHEET.
6. SEE SHEET AK-0.6 FOR INFORMATION ON INTERIOR PARTITIONS.
7. PROVIDE BLOCKING FOR GRAB BARS, TOILET PAPER HOLDERS, TOWEL BARS, MIRRORS, CABINETS, AND OTHER FIT-UP ITEMS. SEE FLOOR PLANS FOR LOCATIONS.
8. ALL FURNITURE AND APPLIANCES BY OWNER (EXCEPT FOR RANGE HOOD); INSTALL COORDINATED WITH CM. BUILT-INS BY CONTRACTOR.
9. ALL BATHROOM WINDOW SILLS TO BE CULTURED MARBLE TO MATCH COUNTER TOP
10. SEE SHEET A-0.2 FOR TYPICAL ACCESSIBILITY DETAILS/REQUIREMENTS.



3 Gear Room East Wall
1/2" = 1'-0"

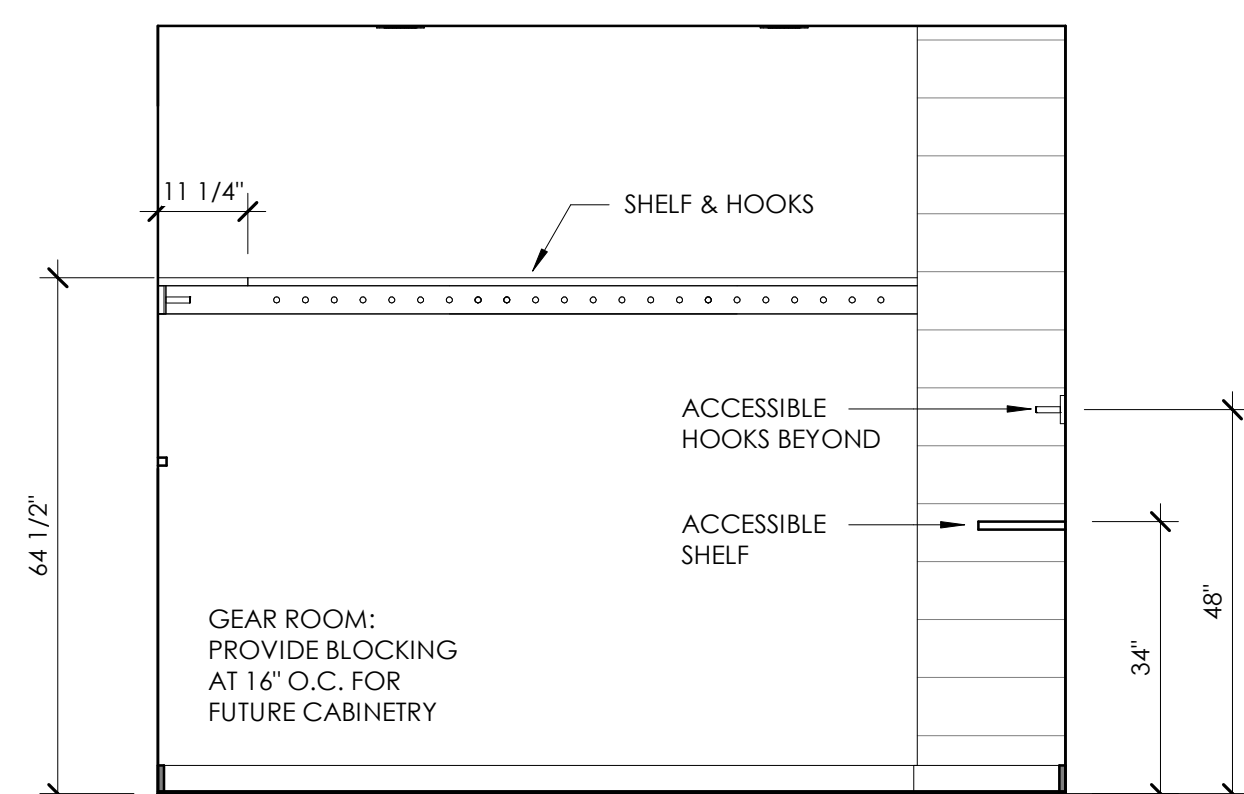


2 Gear Room Enlarged Plan
1/2" = 1'-0"

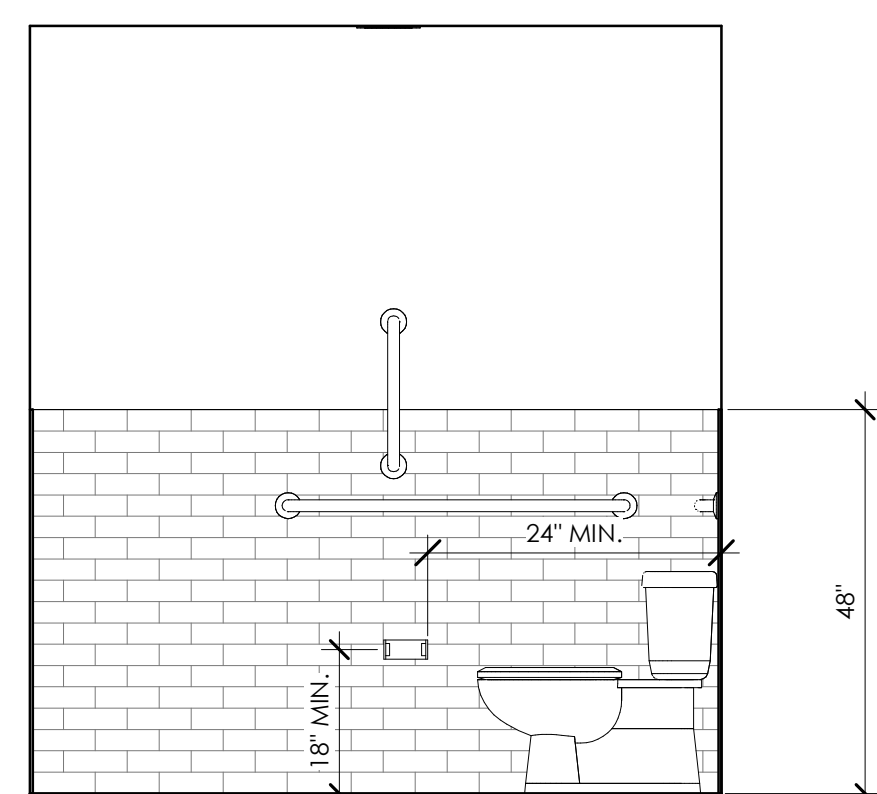


1 ADA Kitchen Enlarged Plan
1/2" = 1'-0"

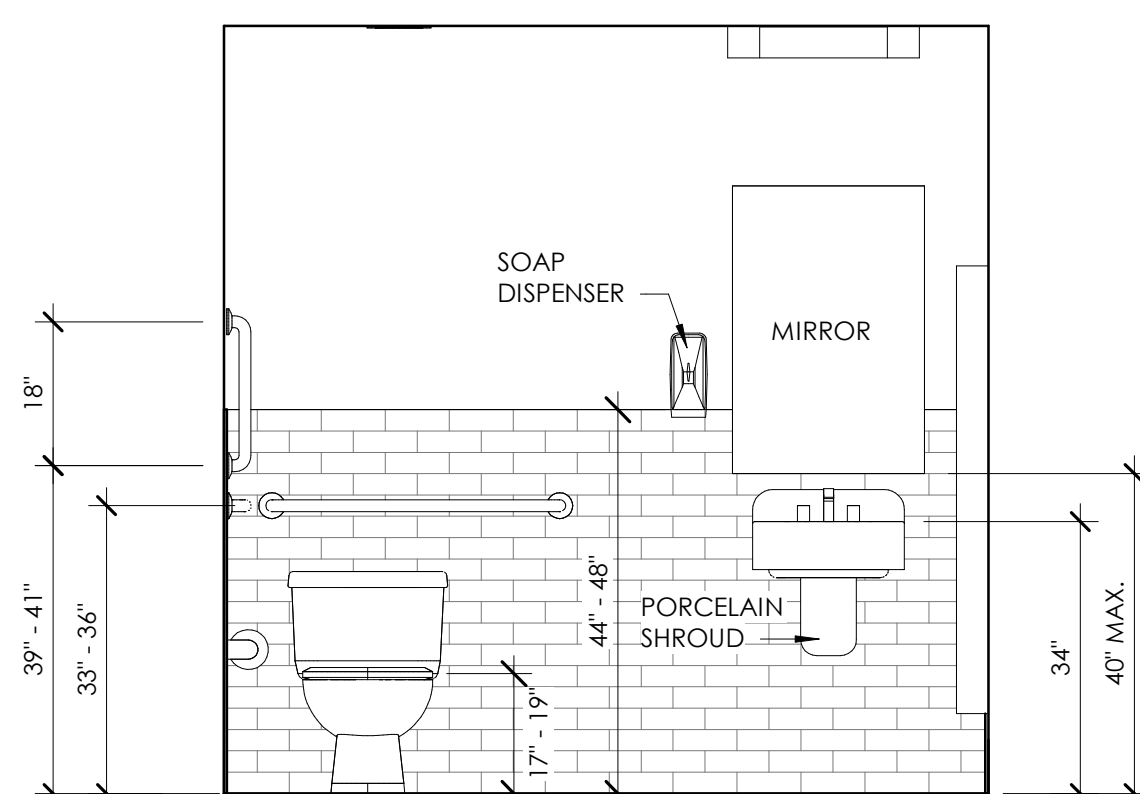
APPLIANCE SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER	MODEL#	COMMENTS
A1	ADA Compliant Induction Range	GE	PHS930YFES	
A2	ADA Compliant Refrigerator	GE	GBE17HYRFS	
A3	ADA Compliant 18" Dishwasher	GE	PDT1455LSS	
A6	Standard Dishwasher	FRIGIDAIRE	FDSH4501AS	



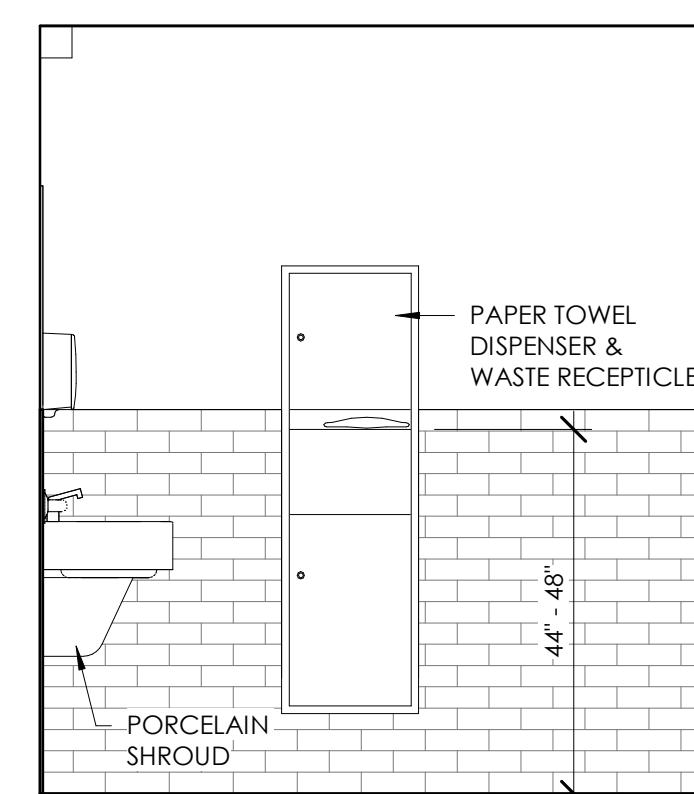
4 Gear Room South Wall
1/2" = 1'-0"



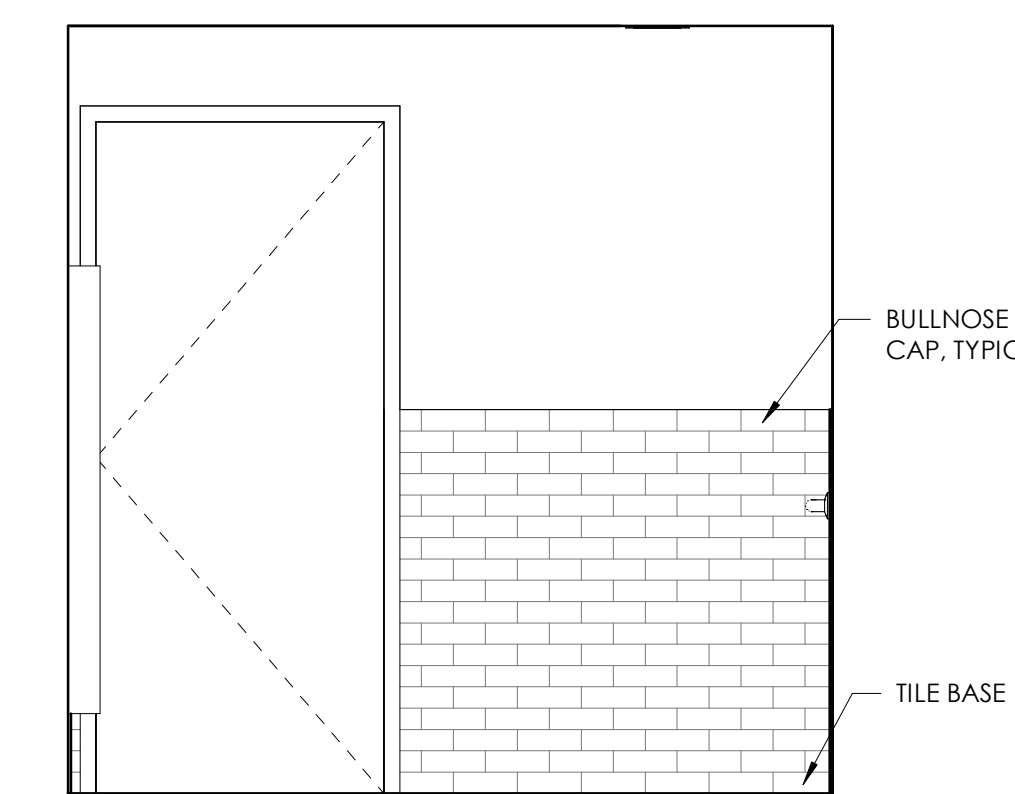
5 FIRST FLOOR WC 113 NORTH WALL
1/2" = 1'-0"



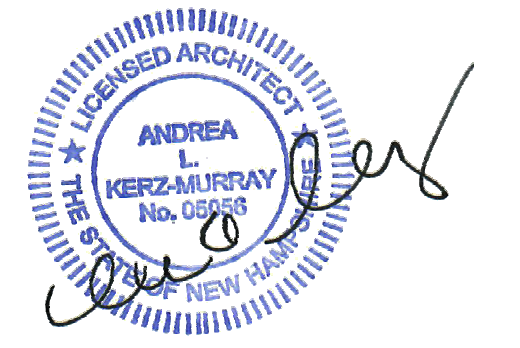
7 FIRST FLOOR WC 113 EAST WALL
1/2" = 1'-0"



9 FIRST FLOOR WC 113 SOUTH WALL
1/2" = 1'-0"



10 FIRST FLOOR WC 113 WEST WALL
1/2" = 1'-0"



DATE ISSUED: 05/15/23
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#	Date	Description

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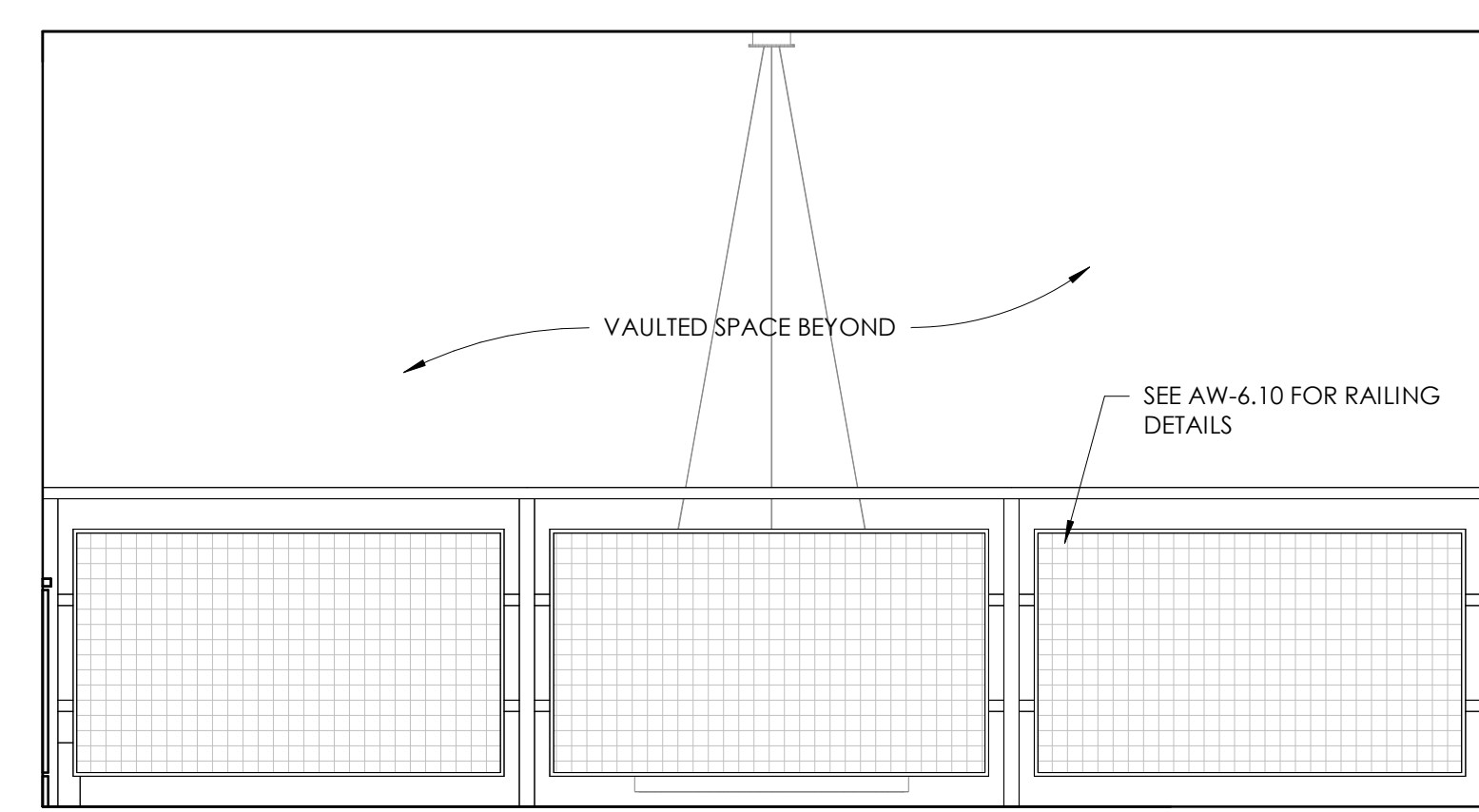
**KUA
KILTON/WELCH
DORMITORIES**

Main Street,
Meriden, NH 03770

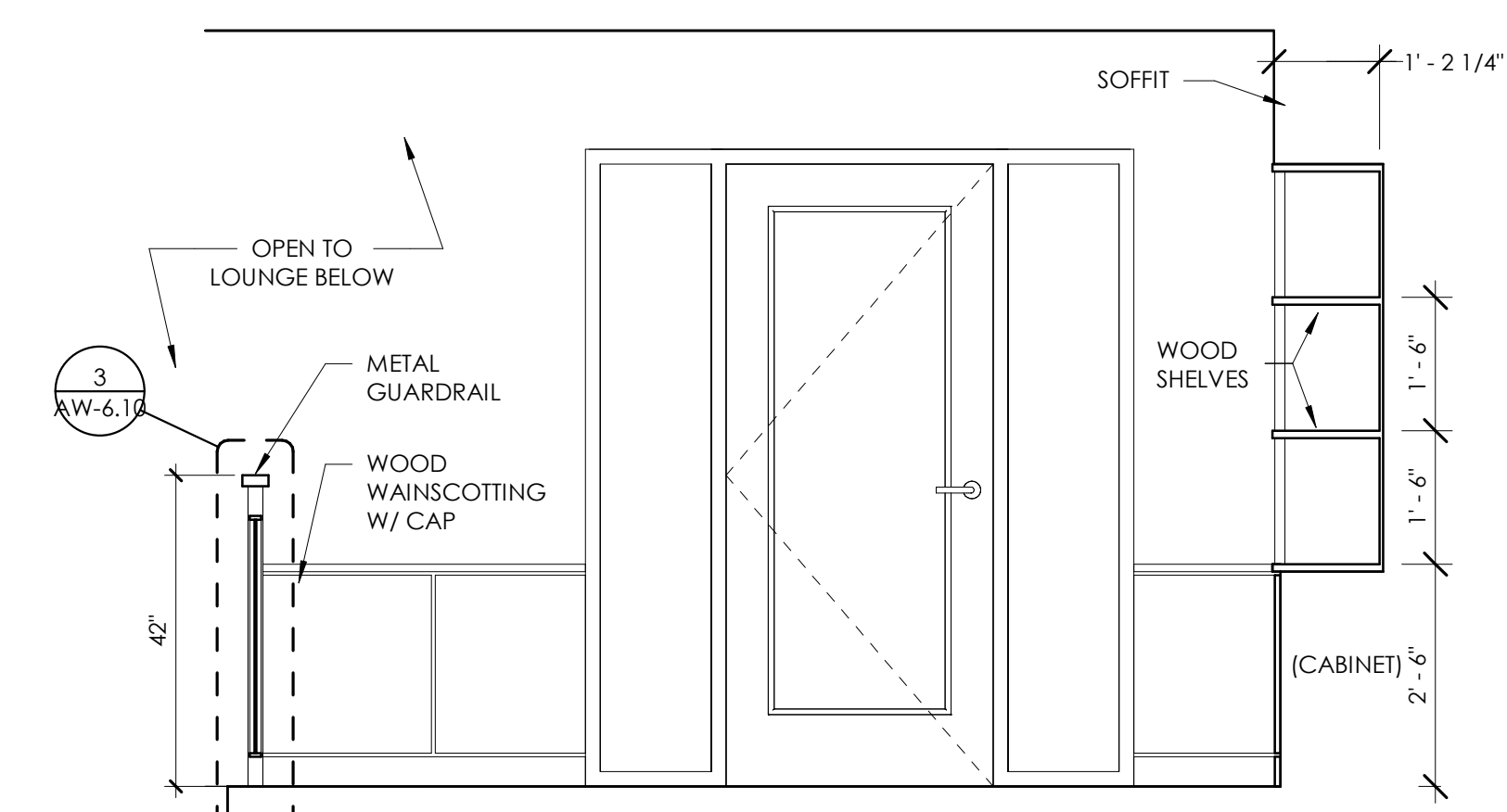
**WELCH
ENLARGED PLANS
& ELEVATIONS**

AW-7.3

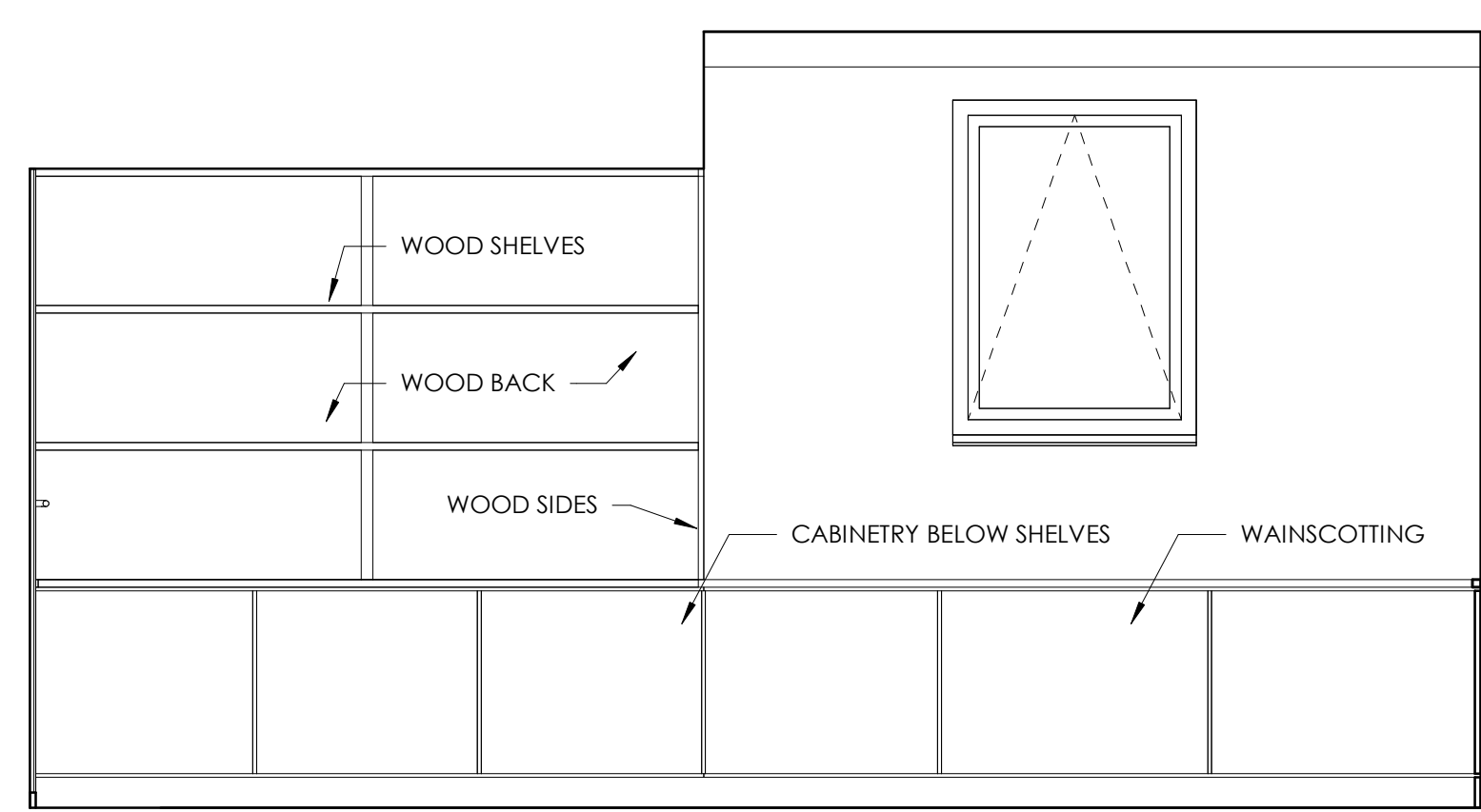
- ENLARGED DRAWING GENERAL NOTES:**
1. ALL WALL/PARTITION DIMENSIONS TO FACE-OF-FRAMING, U.O.N.
 2. ALL DIMENSIONS TO BUILT-IN ITEMS AND IN BATHROOMS ARE TO FACE-OF-FINISH, U.O.N.
 3. ALL DIMENSIONS TO FIXTURES ARE TO FACE-OF-FINISH OR CENTER-OF-FIXTURE.
 4. VERIFY ALL DIMENSIONS AND CONDITIONS IN-FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF DISCREPANCIES.
 5. CONFER WITH SHEET AK-9.1 AND ARCHITECTURAL SPECIFICATIONS FOR DETAILS & SCOPE AROUND MILLWORK ITEMS, IN ADDITION TO THIS SHEET.
 6. SEE SHEET AK-0.6 FOR INFORMATION ON INTERIOR PARTITIONS.
 7. PROVIDE BLOCKING FOR GRAB BARS, TOILET PAPER HOLDERS, TOWEL BARS, MIRRORS, CABINETS, AND OTHER FIT-UP ITEMS. SEE FLOOR PLANS FOR LOCATIONS.
 8. ALL FURNITURE AND APPLIANCES BY OWNER (EXCEPT FOR RANGE HOOD); INSTALL COORDINATED WITH CM, BUILT-INS BY CONTRACTOR.
 9. ALL BATHROOM WINDOW SILLS TO BE CULTURED MARBLE TO MATCH COUNTER TOP
 10. SEE SHEET A-0.2 FOR TYPICAL ACCESSIBILITY DETAILS/REQUIREMENTS.



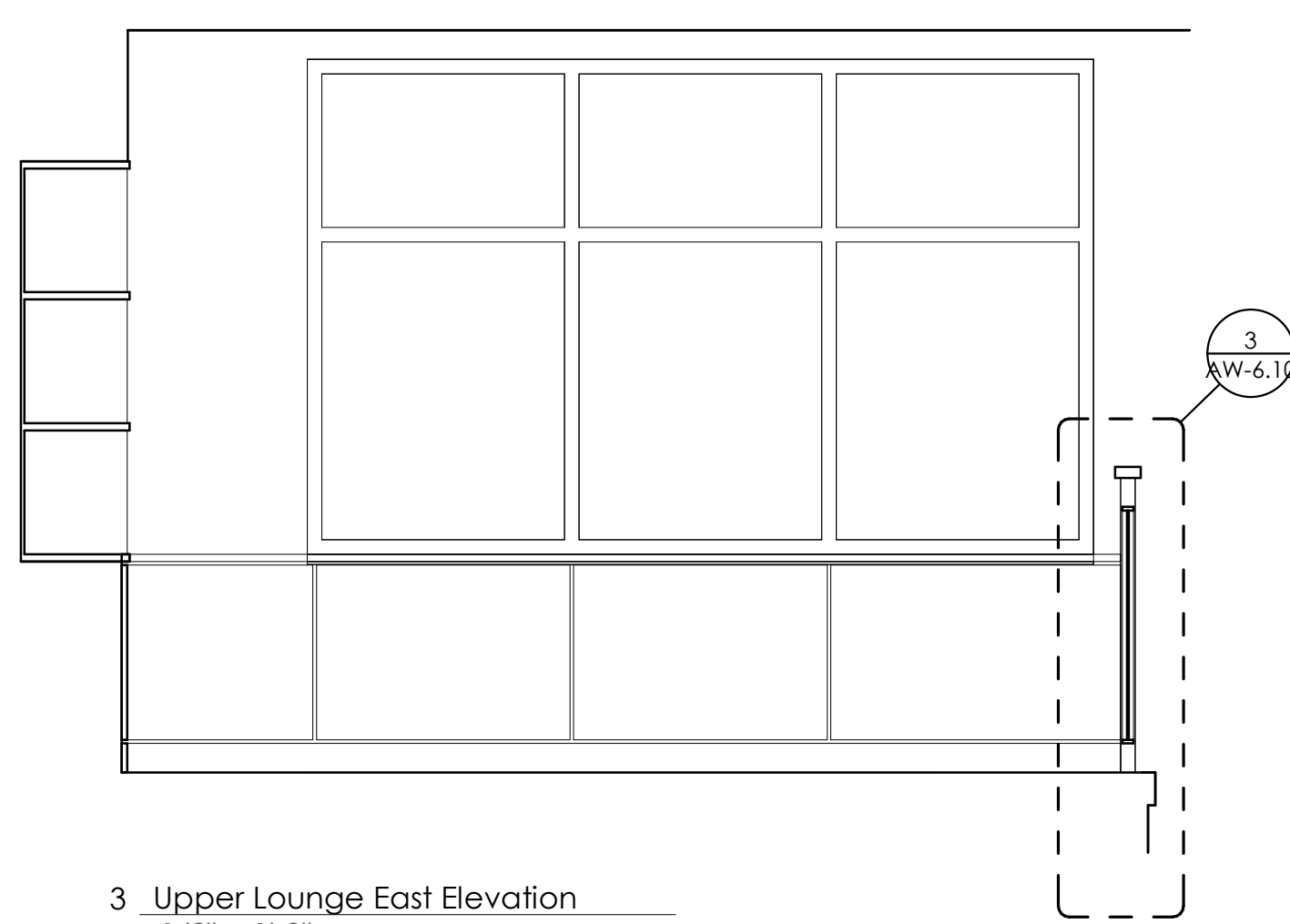
4 Upper Lounge South Elevation
1/2" = 1'-0"



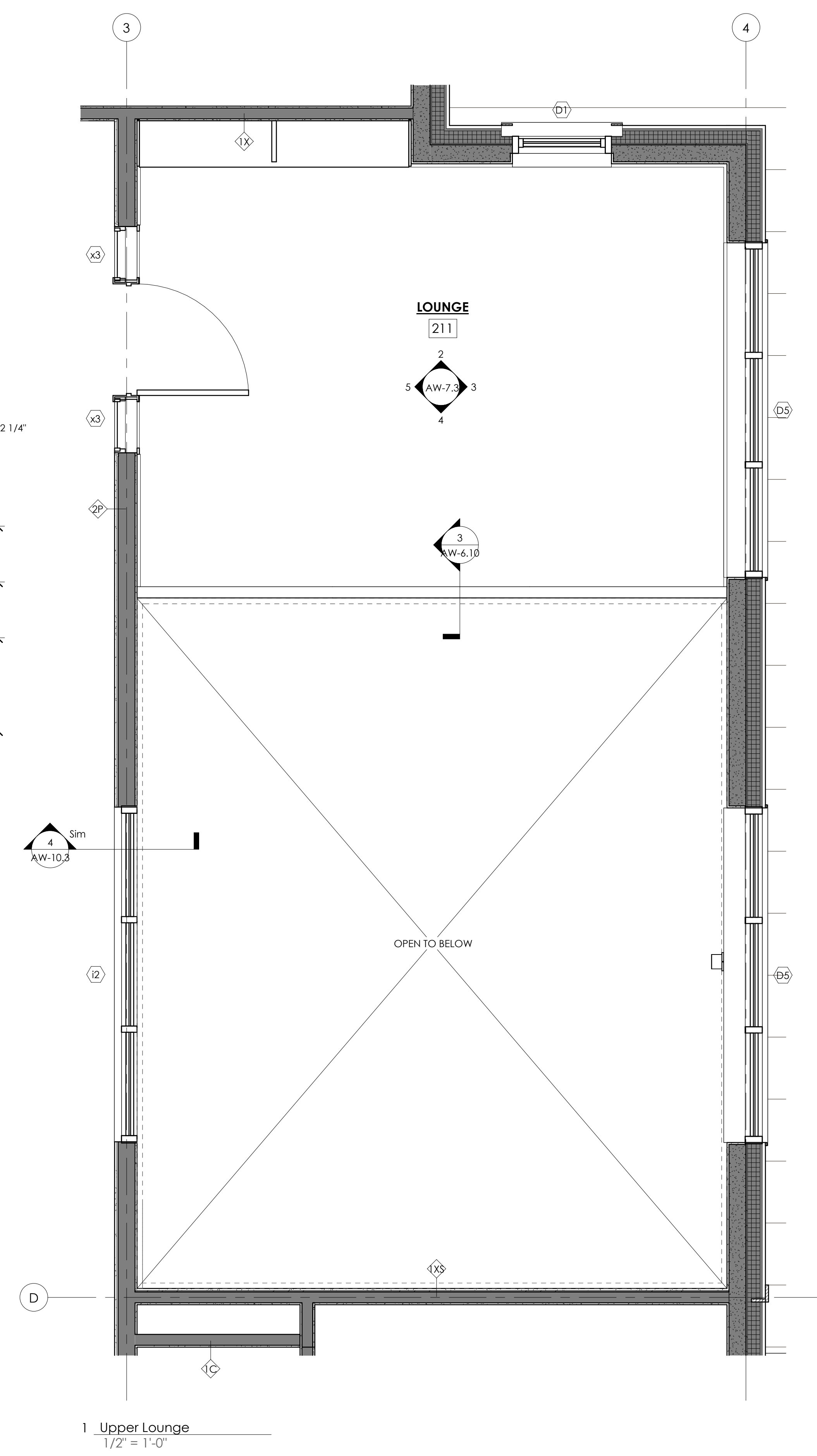
5 Upper Lounge West Elevation
1/2" = 1'-0"



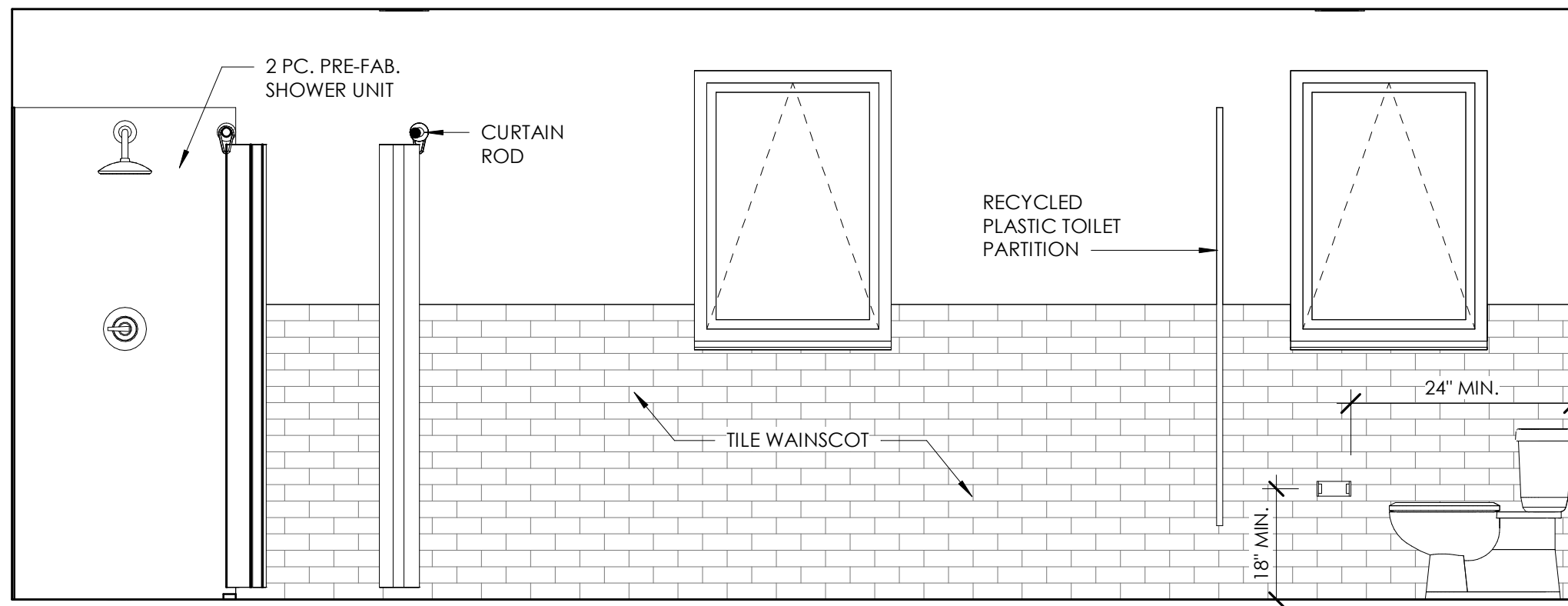
2 Upper Lounge North Elevation
1/2" = 1'-0"



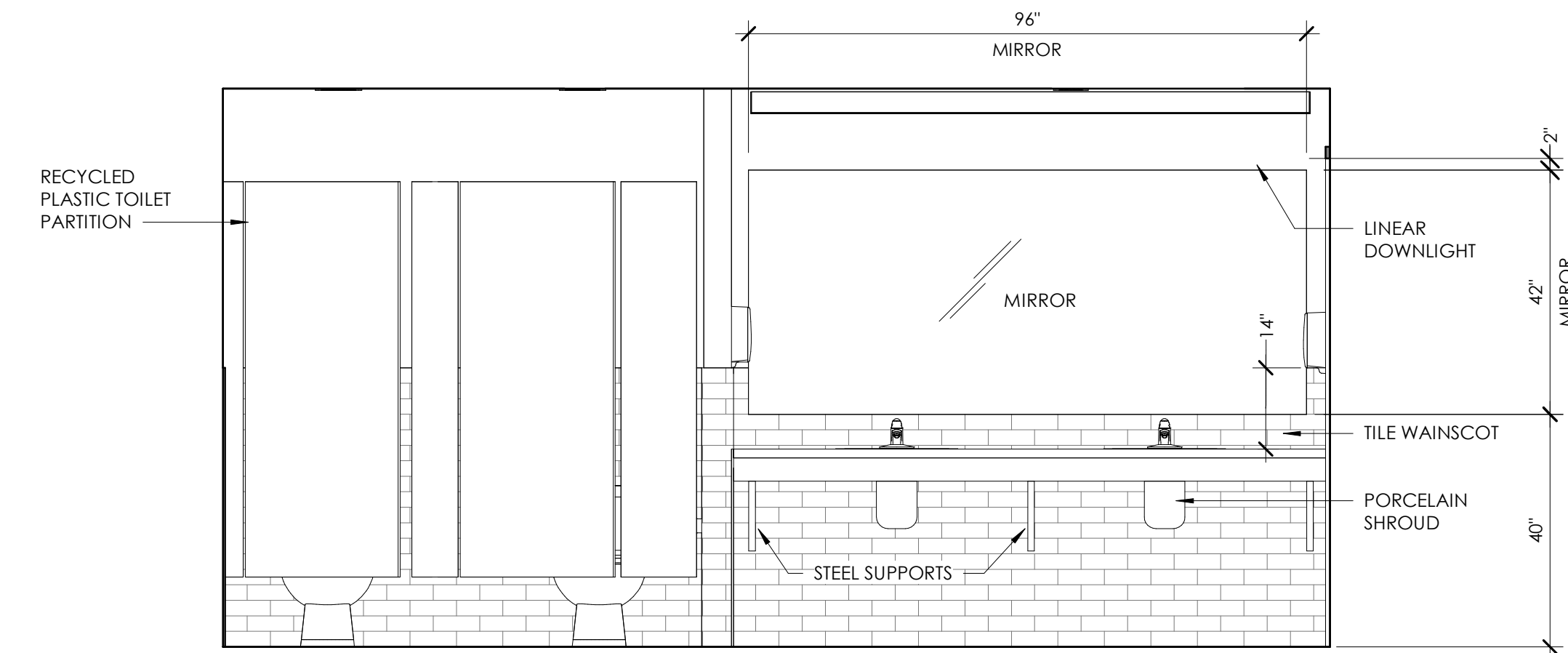
3 Upper Lounge East Elevation
1/2" = 1'-0"



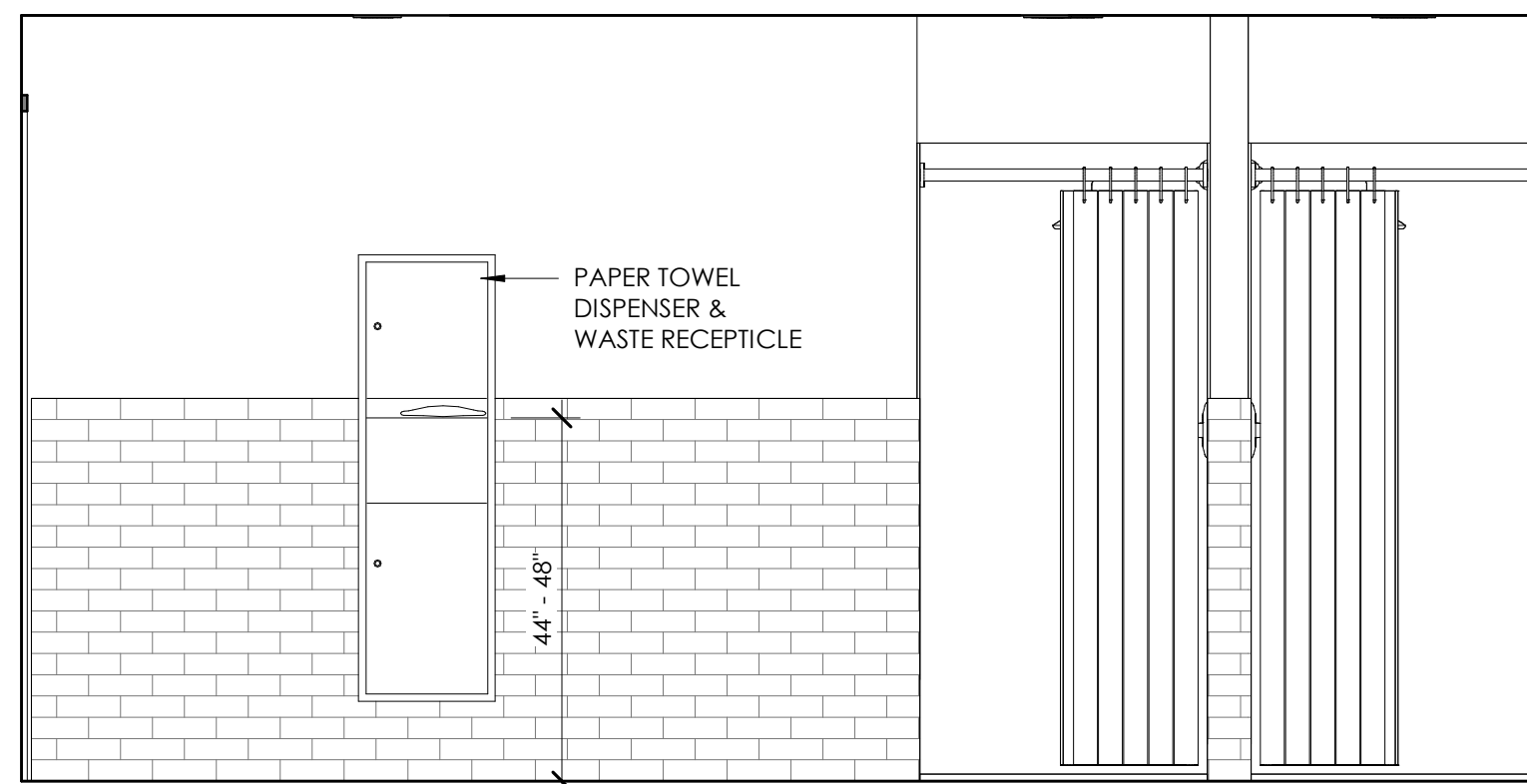
1 Upper Lounge
1/2" = 1'-0"



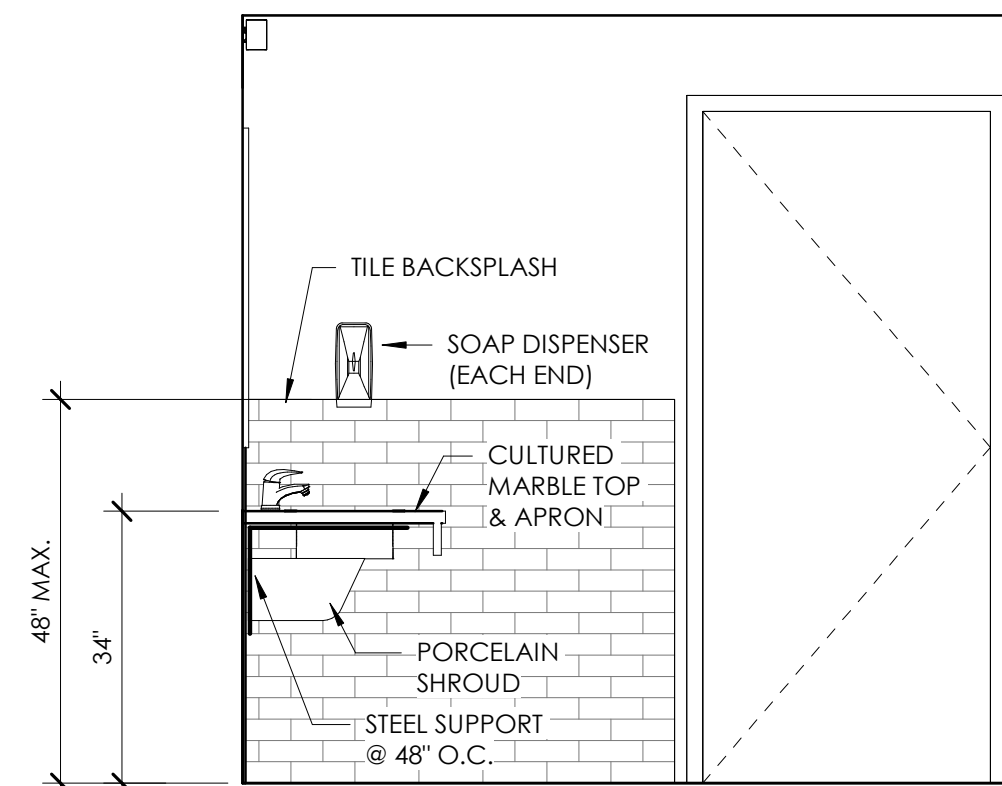
4 First Floor Common Bath Exterior Wall
1/2" = 1'-0"



2 First Floor Common Bath Lavatory Wall
1/2" = 1'-0"

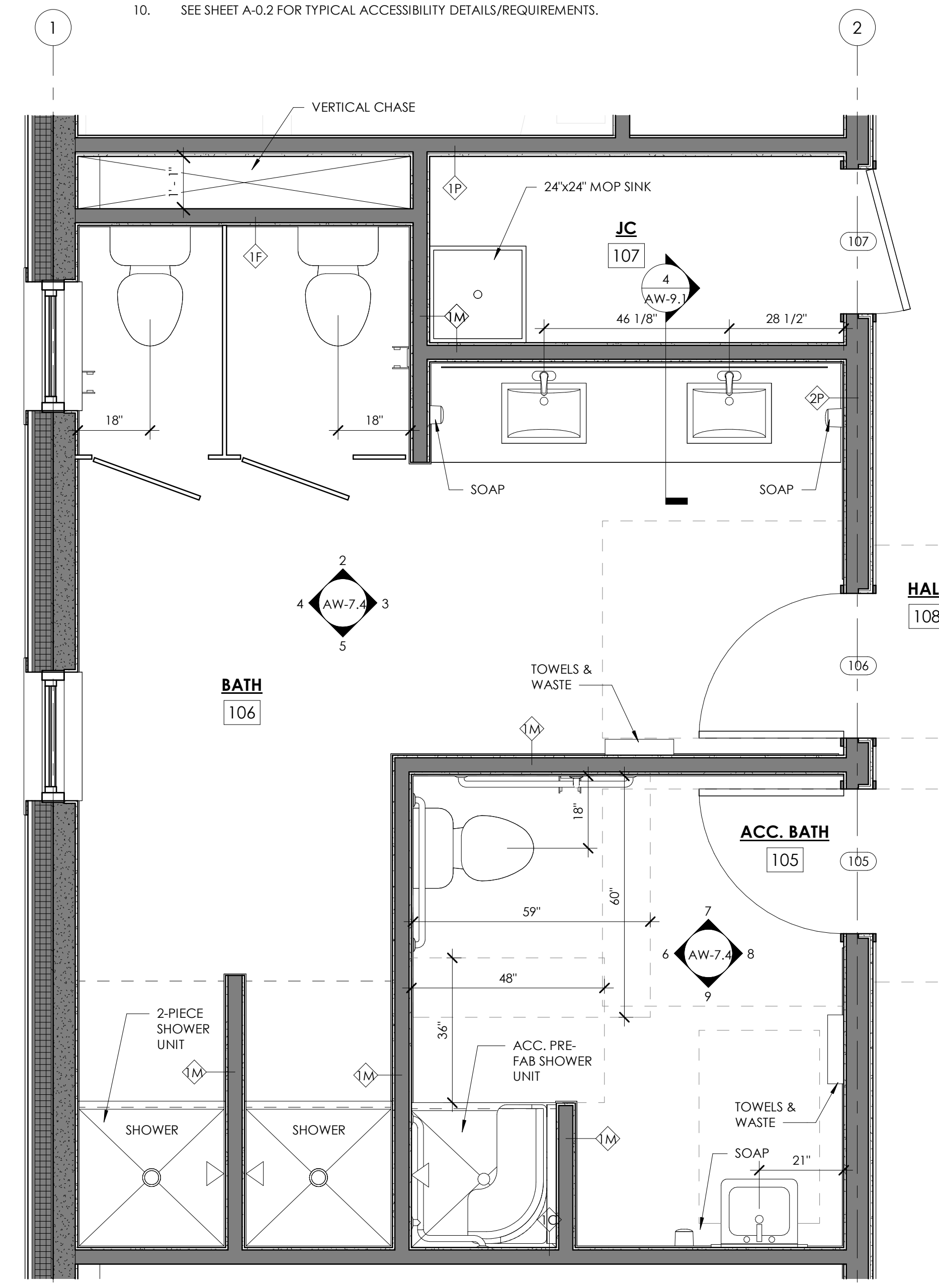


5 First Floor Common Bath Shower Wall
1/2" = 1'-0"

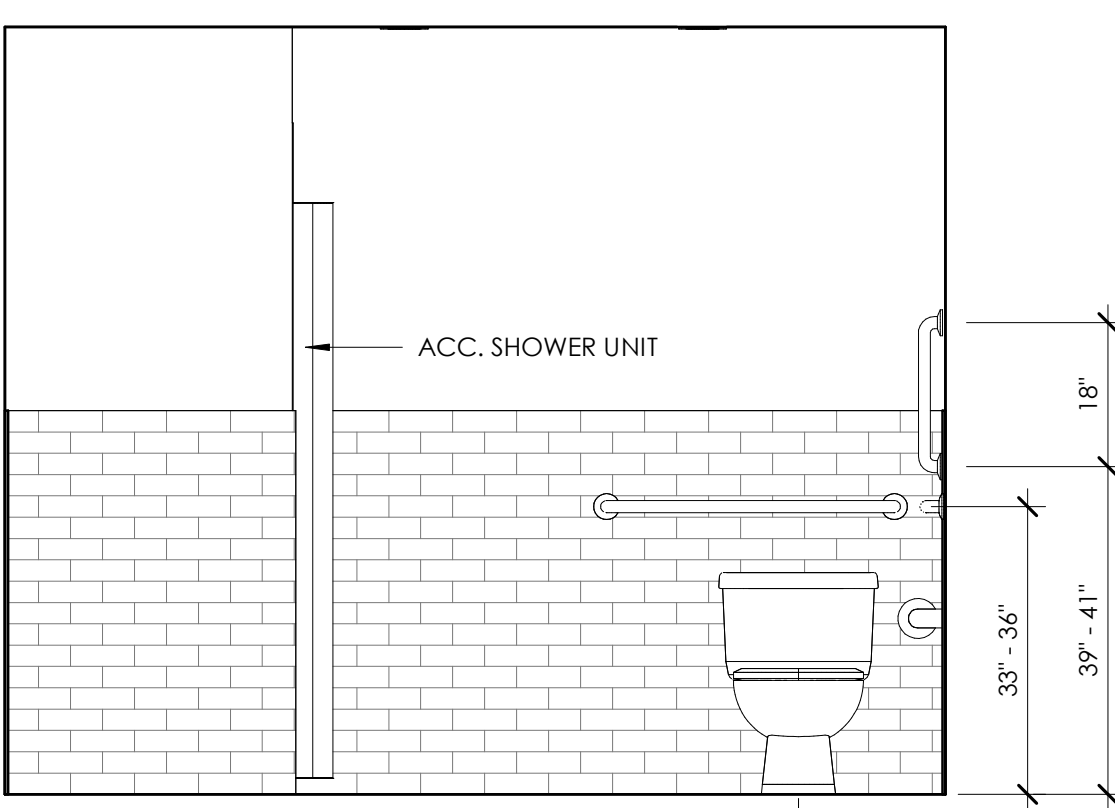


3 First Floor Common Corr. Wall
1/2" = 1'-0"

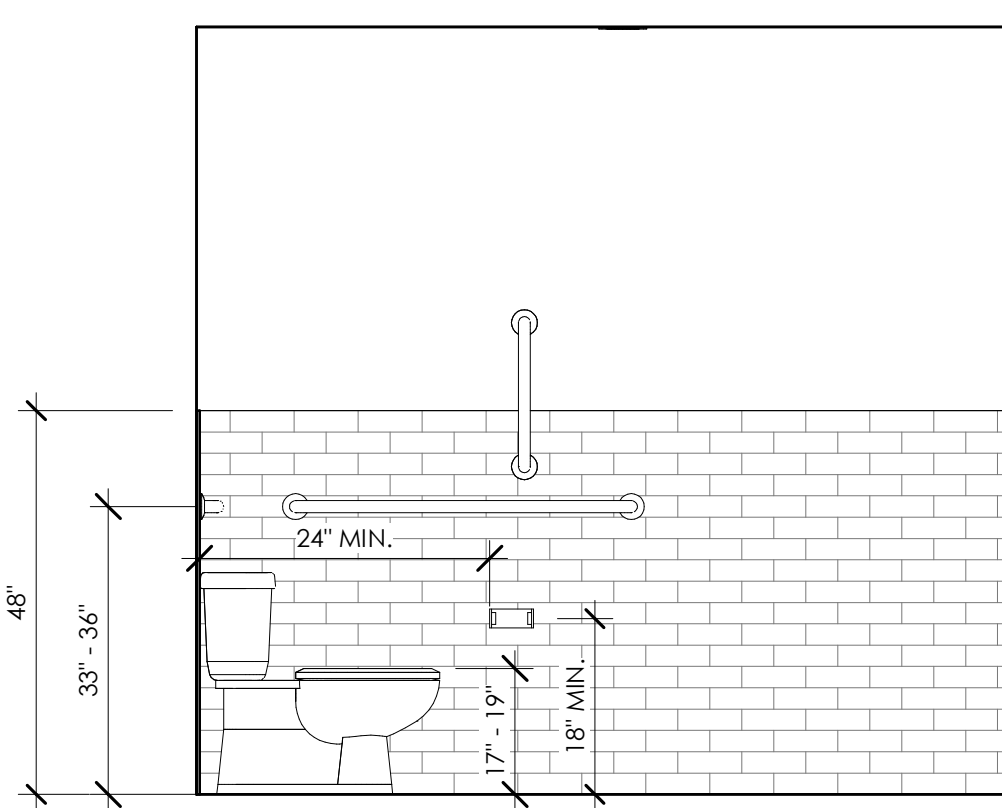
- ENLARGED DRAWING GENERAL NOTES:**
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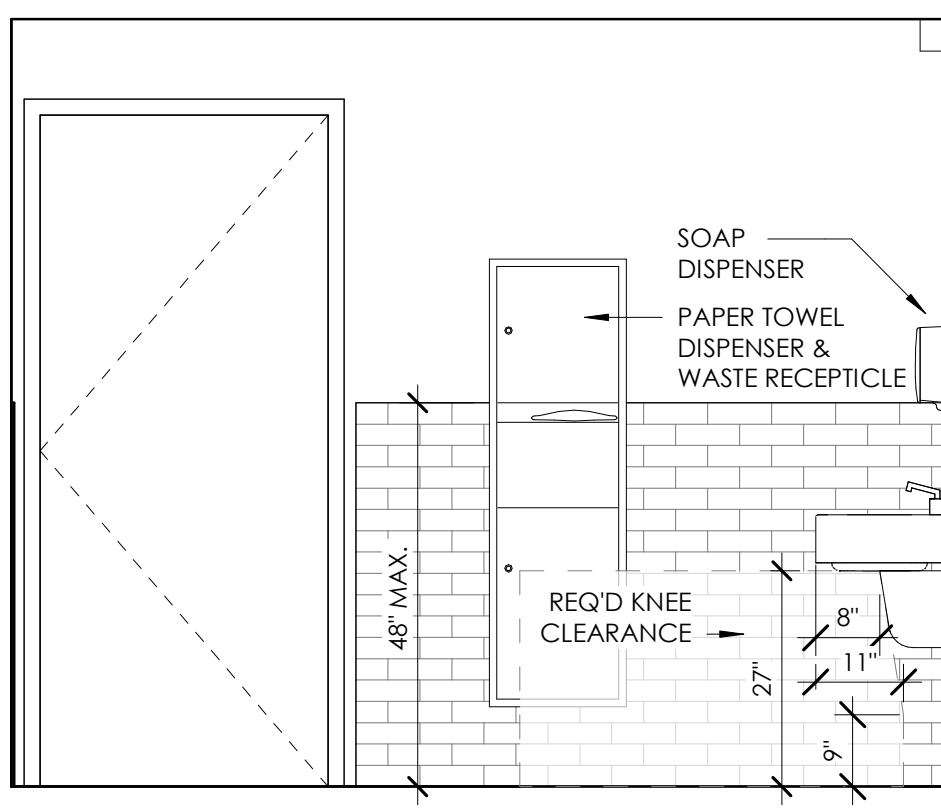
1 First Floor Bathrooms
1/2" = 1'-0"



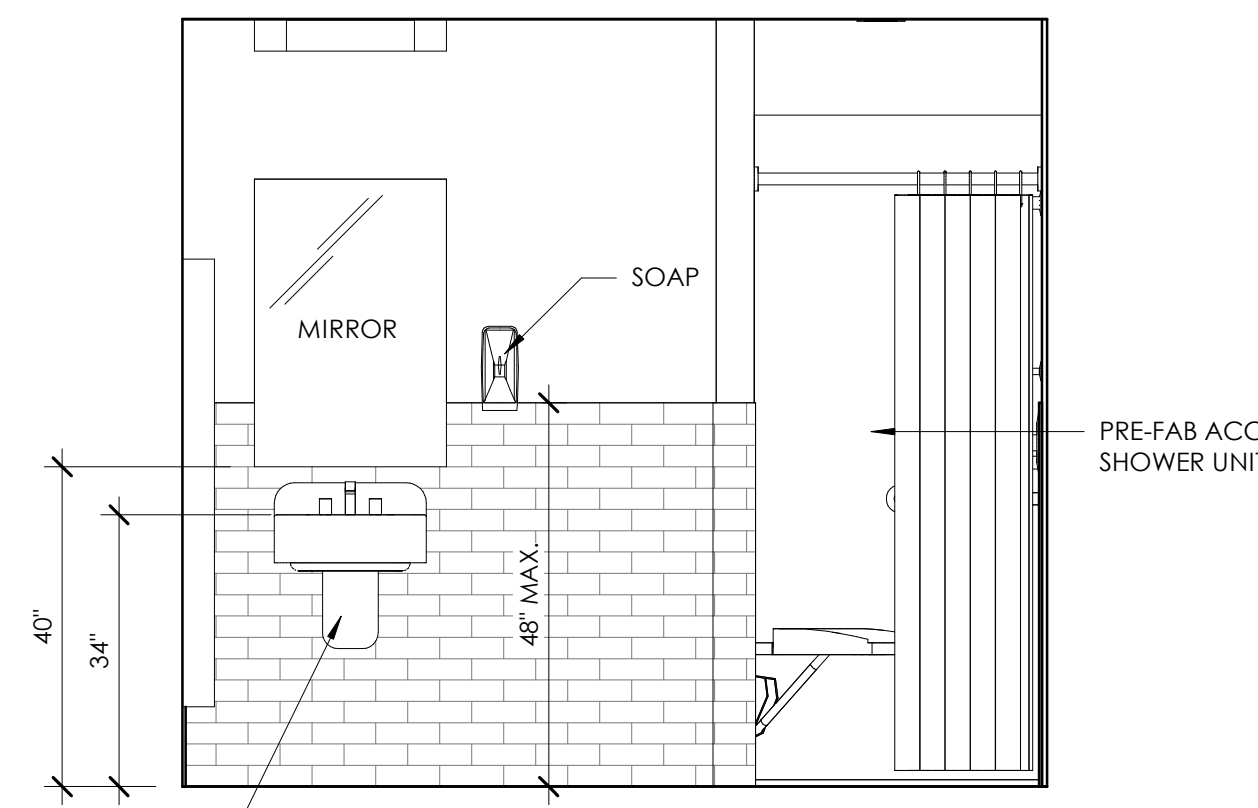
6 First Floor ACC. Bath West Wall
1/2" = 1'-0"



7 First Floor ACC. Bath North Wall
1/2" = 1'-0"



8 First Floor ACC. Bath East Wall
1/2" = 1'-0"



9 First Floor ACC. Bath South Wall
1/2" = 1'-0"



DATE ISSUED: 05/15/23
Drawn: JG
Checked: SR

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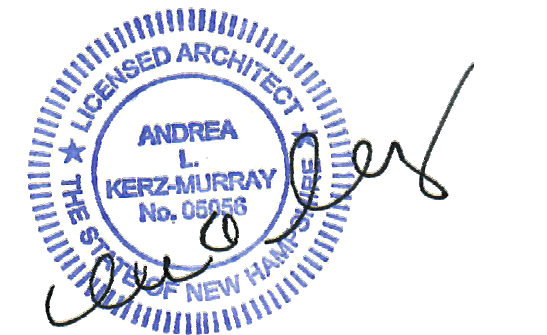
PERMIT SET 05/15/2023

KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

WELCH
ENLARGED
BATHROOM
DRAWINGS

AW-7.4



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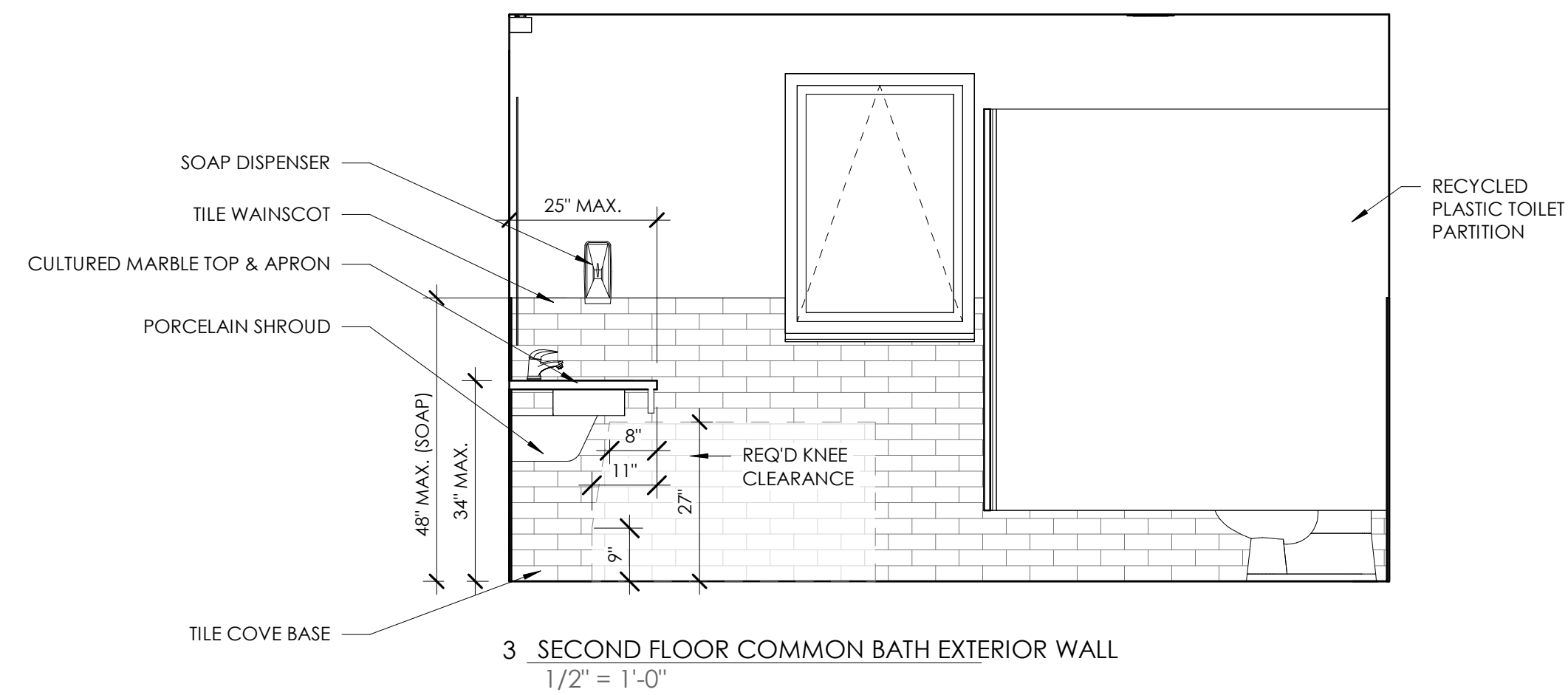
PERMIT SET 05/15/2023

KUA
KILTON/WELCH
DORMITORIES

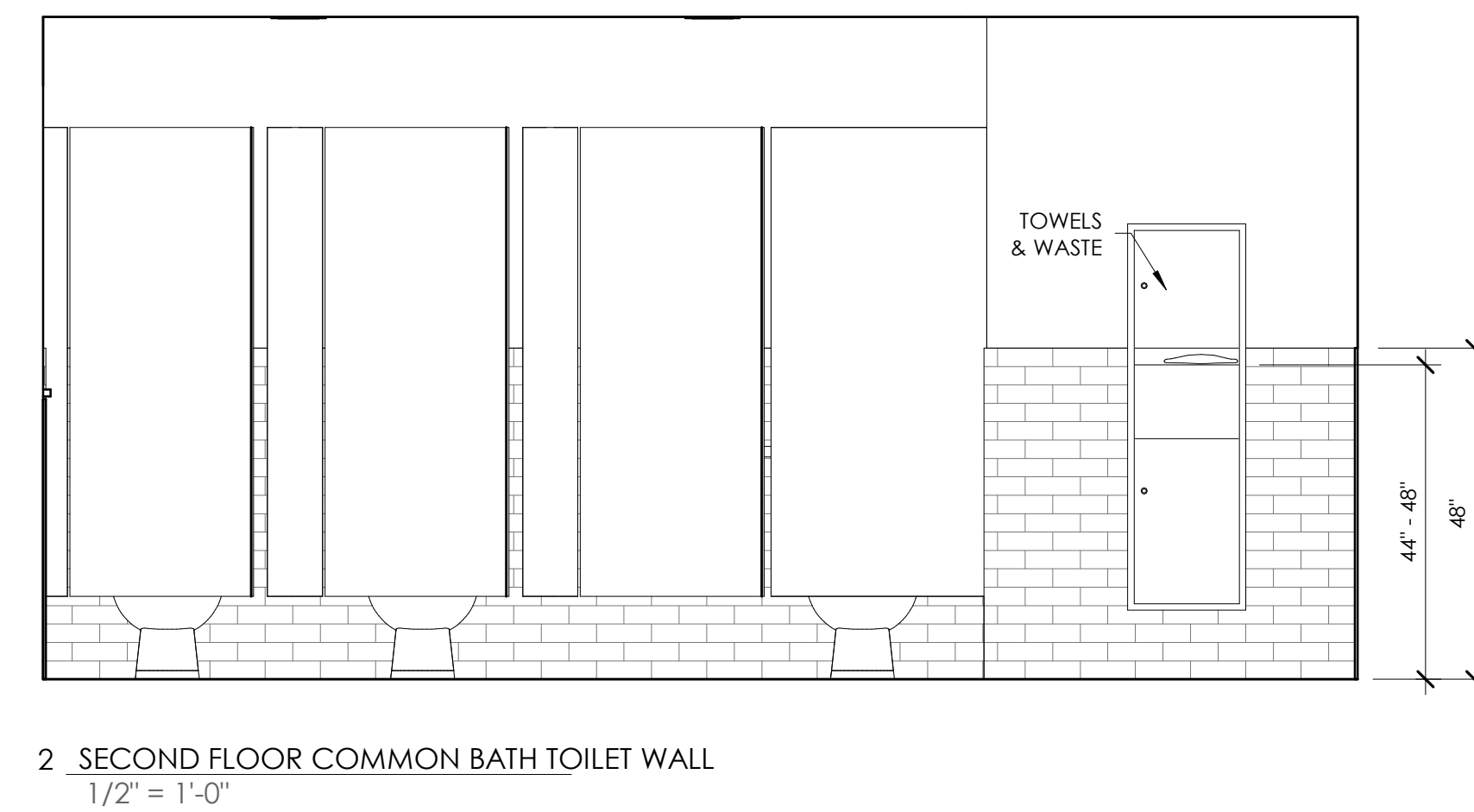
Main Street,
Meriden, NH 03770

WELCH
ENLARGED
BATHROOM
DRAWINGS

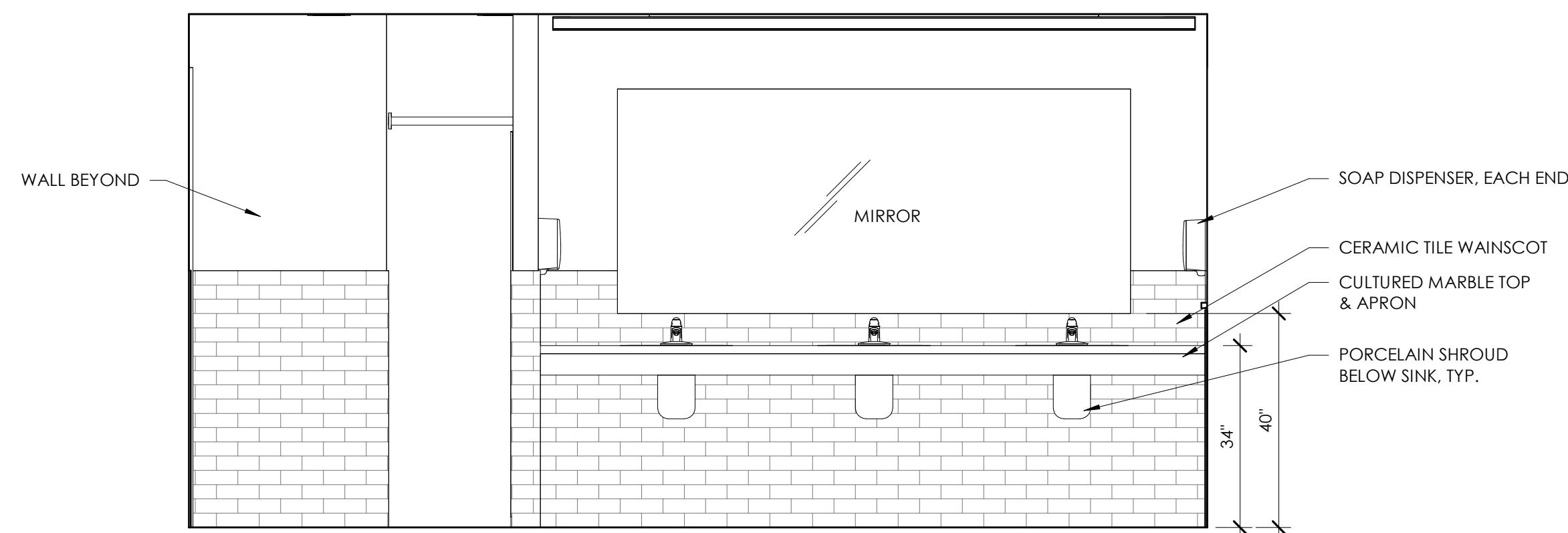
AW-7.5



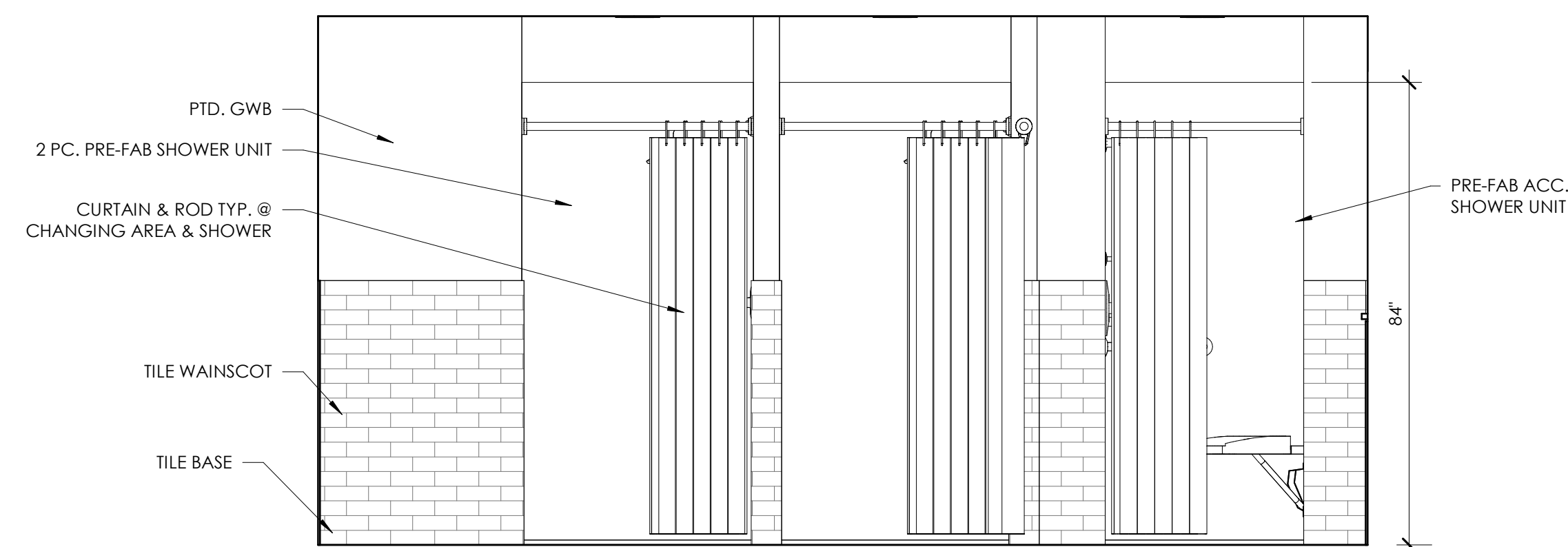
3 SECOND FLOOR COMMON BATH EXTERIOR WALL
1/2" = 1'-0"



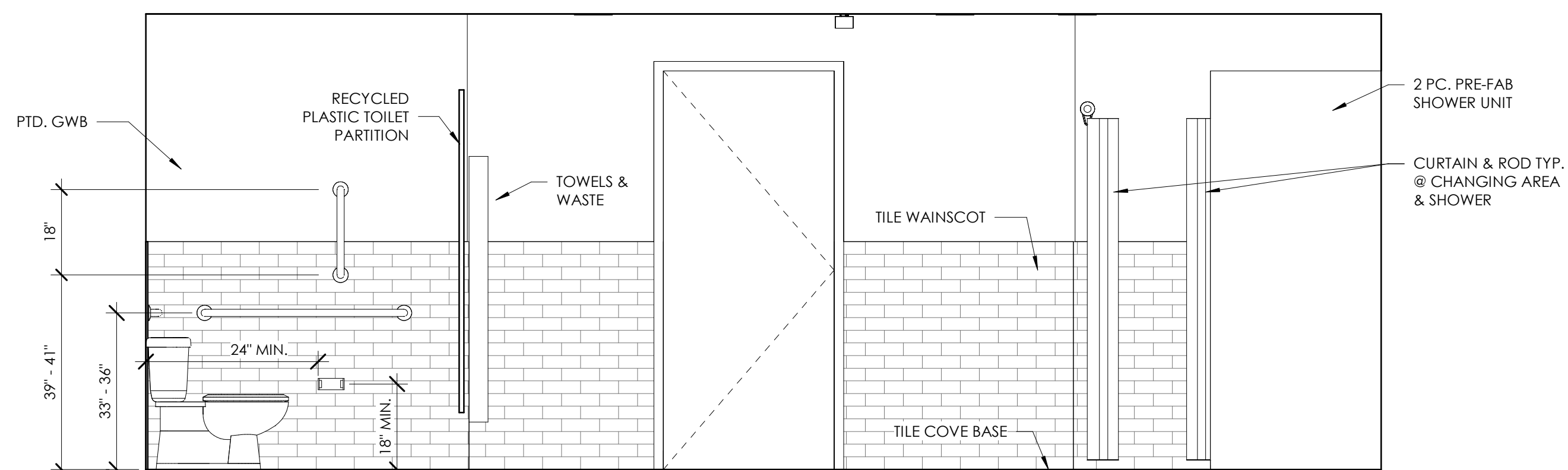
2 SECOND FLOOR COMMON BATH TOILET WALL
1/2" = 1'-0"



4 SECOND FLOOR COMMON BATH SINK WALL
1/2" = 1'-0"

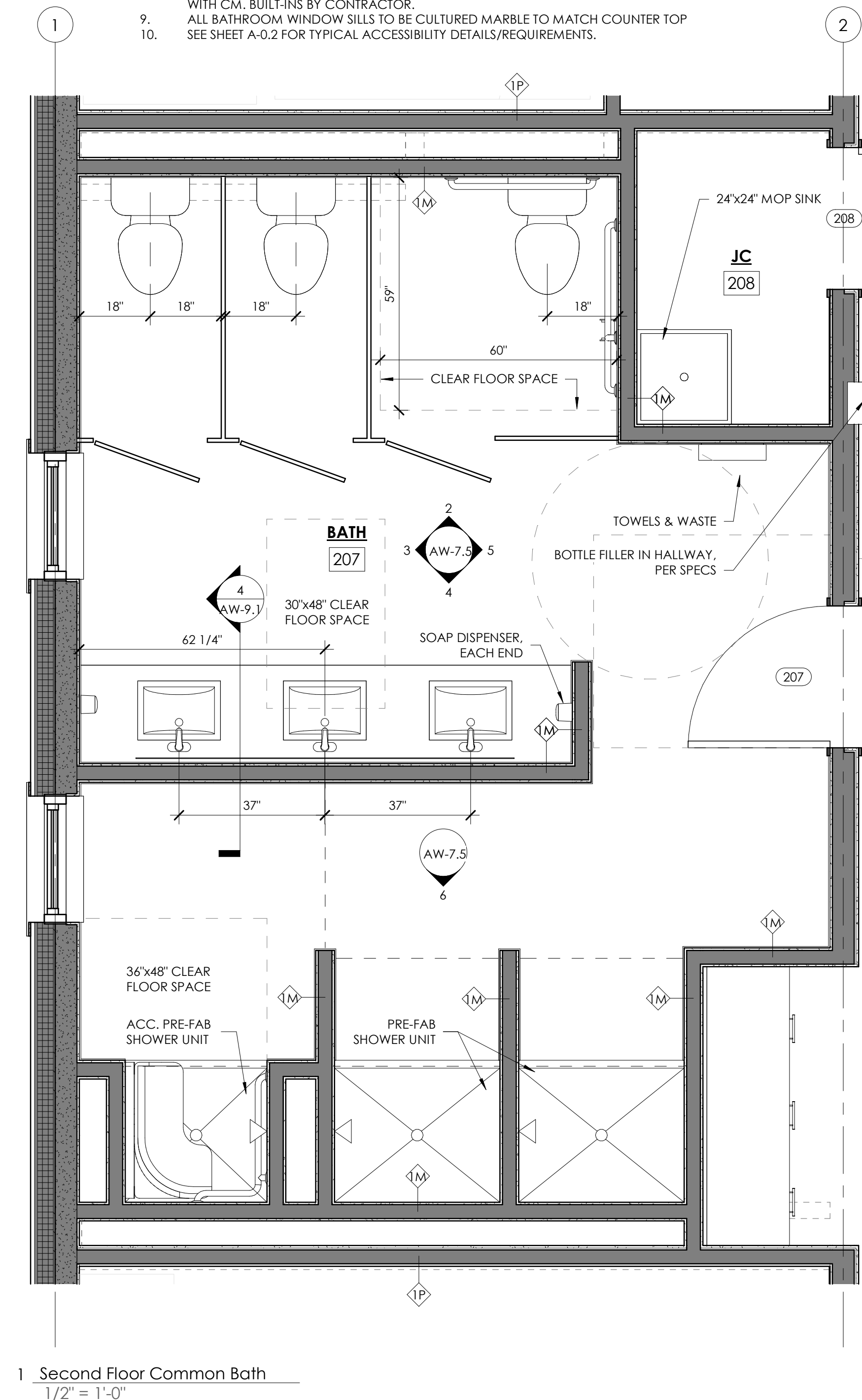


6 SECOND FLOOR COMMON BATH SHOWER WALL
1/2" = 1'-0"



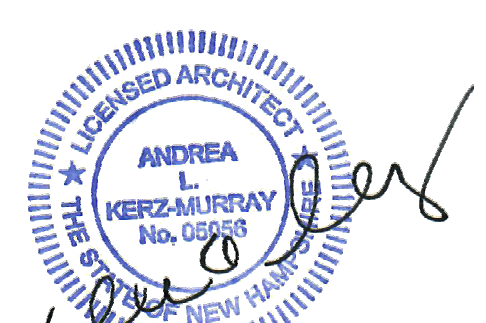
5 SECOND FLOOR COMMON BATH CORR. WALL
1/2" = 1'-0"

- ENLARGED DRAWING GENERAL NOTES:**
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1 Second Floor Common Bath
1/2" = 1'-0"

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DATE ISSUED: 05/15/23
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#	Date	Description
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PERMIT SET 05/15/2023

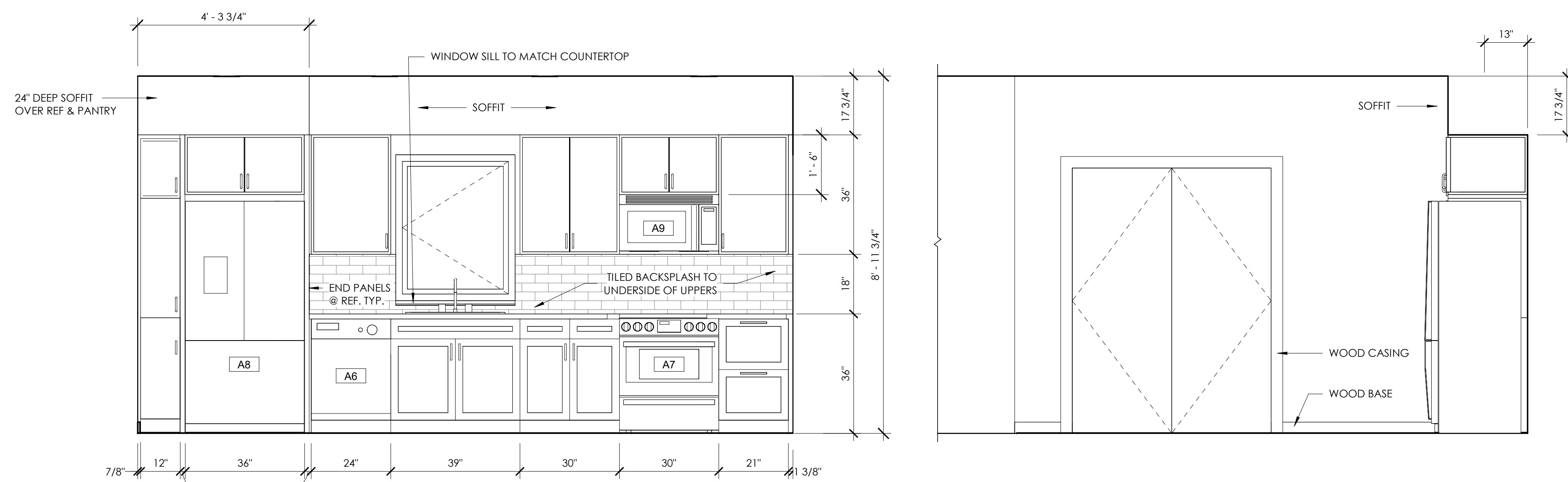
KUA
KILTON/WELCH
DORMITORIES

Main Street,
 Meriden, NH 03770

WELCH
FACULTY RES.
ENLARGED PLANS
& ELEVATIONS

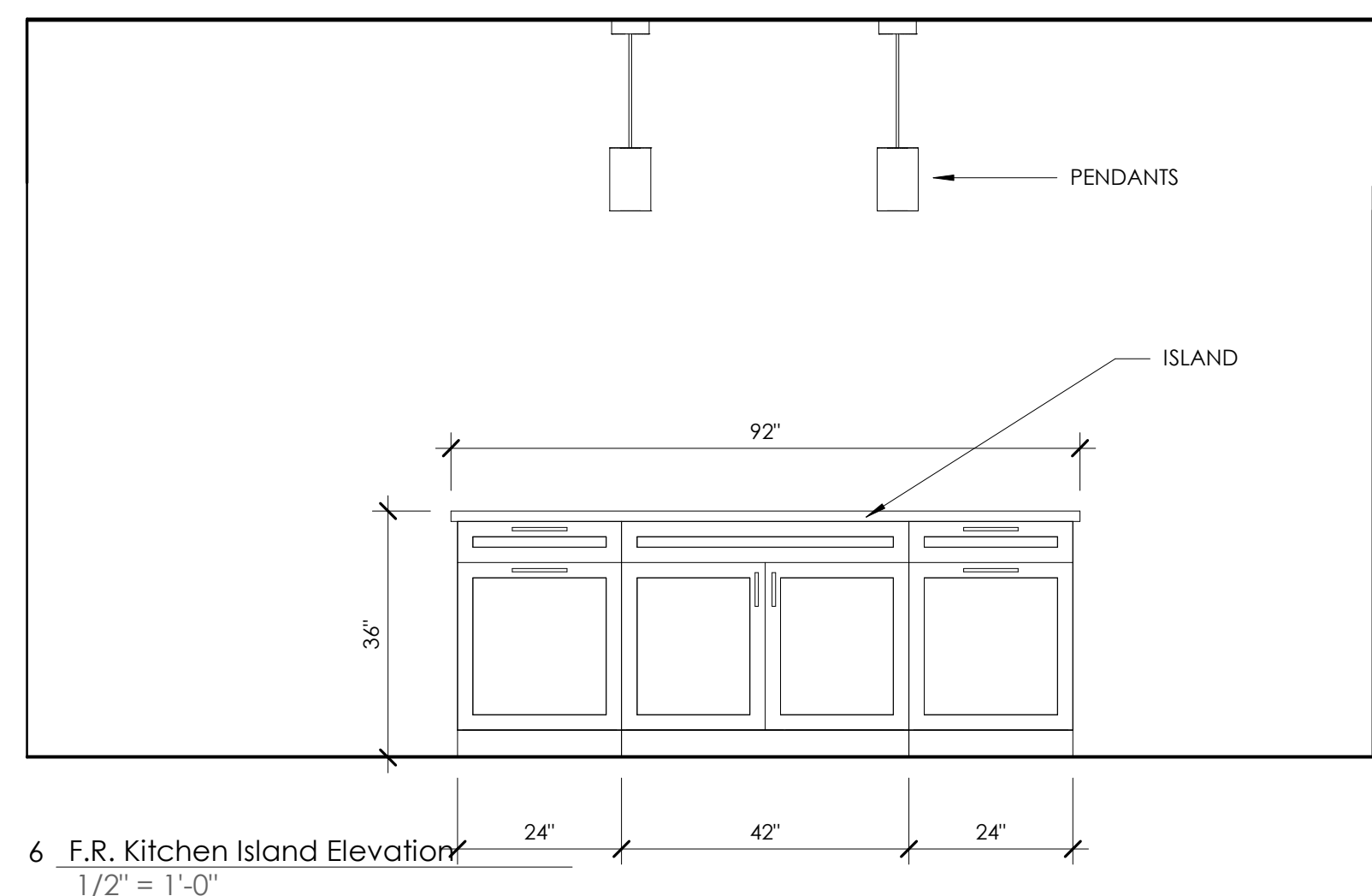
AW-7.6

APPLIANCE SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER	MODEL#	COMMENTS
A6	Standard Dishwasher	FRIGIDAIRE	FDSH4501AS	
A7	Standard Induction Range	FRIGIDAIRE	GCR3058AF	
A8	Refrigerator with Ice + Water	FRIGIDAIRE	FRFC2323AS	PROVIDE WATER LINE TO REF.
A9	Microwave over the Range	FRIGIDAIRE	FFMV1845VS	PROVIDE FOR EXHAUST

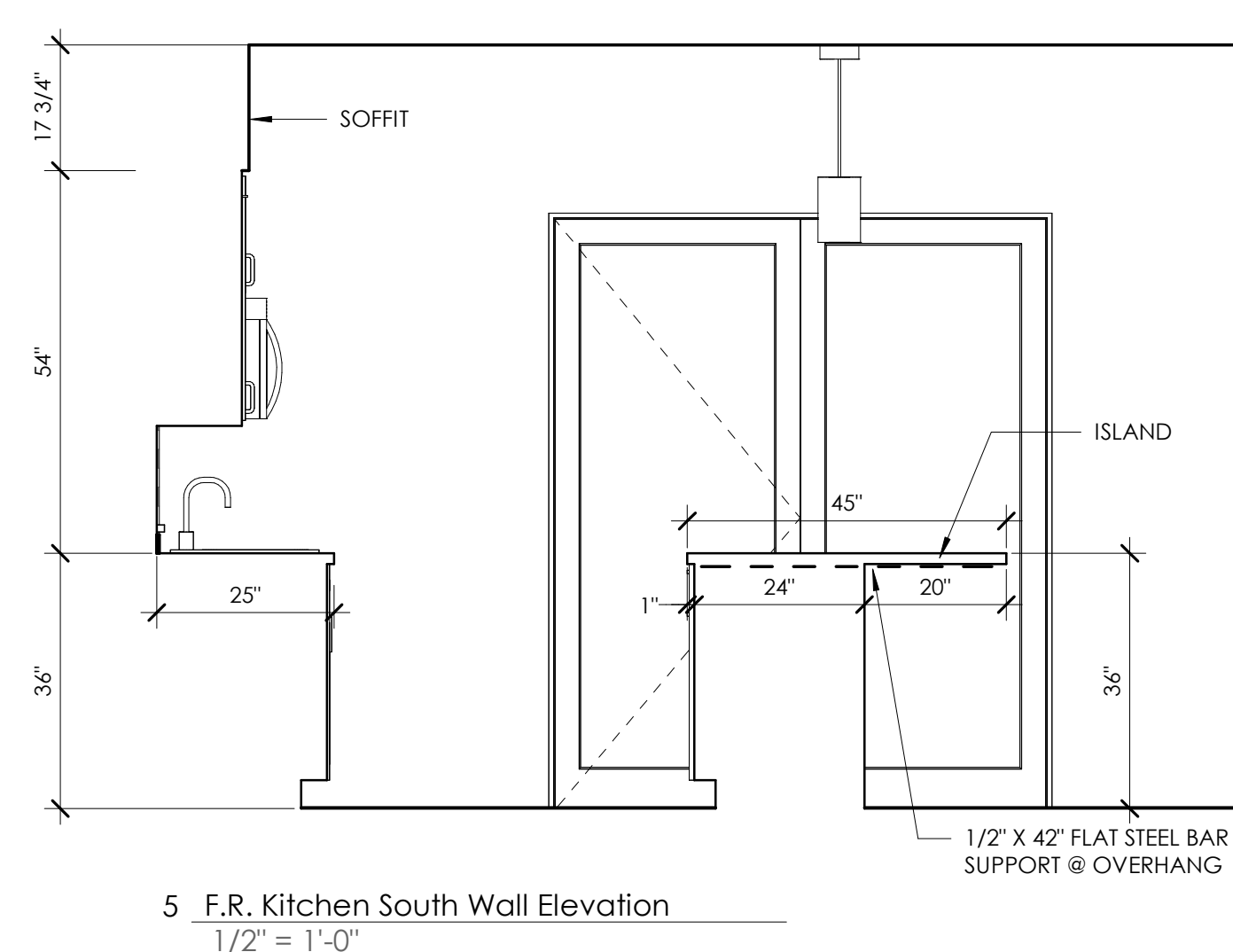


4 F.R. Kitchen East Wall Elevation
 1/2" = 1'-0"

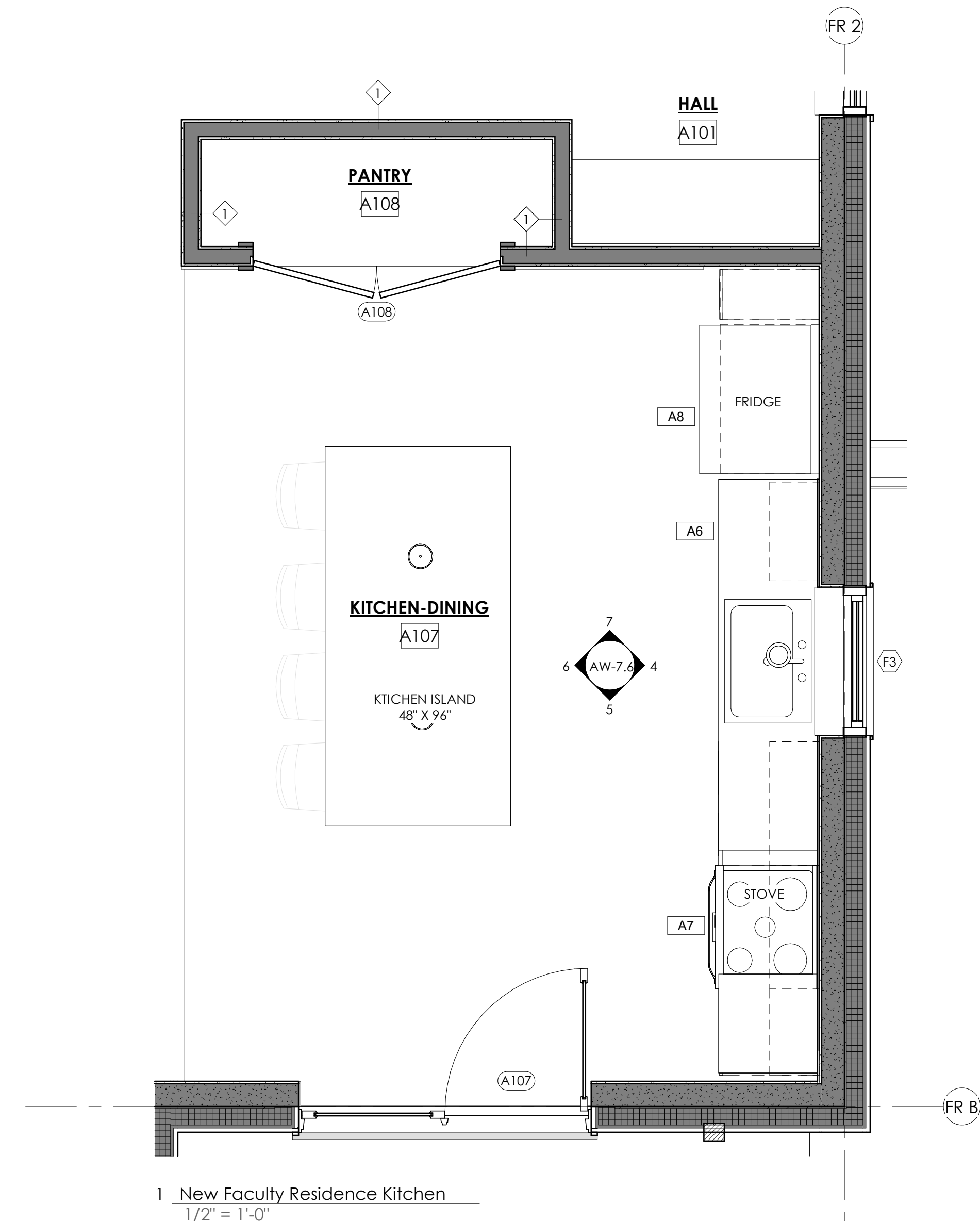
7 F.R. Kitchen North Wall Elevation
 1/2" = 1'-0"



6 F.R. Kitchen Island Elevation
 1/2" = 1'-0"



5 F.R. Kitchen South Wall Elevation
 1/2" = 1'-0"



1 New Faculty Residence Kitchen
 1/2" = 1'-0"



DATE ISSUED: 05/15/23
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REVISIONS:

#	Date	Description
2	05/15/23	Scope Changes to Bid Set #1

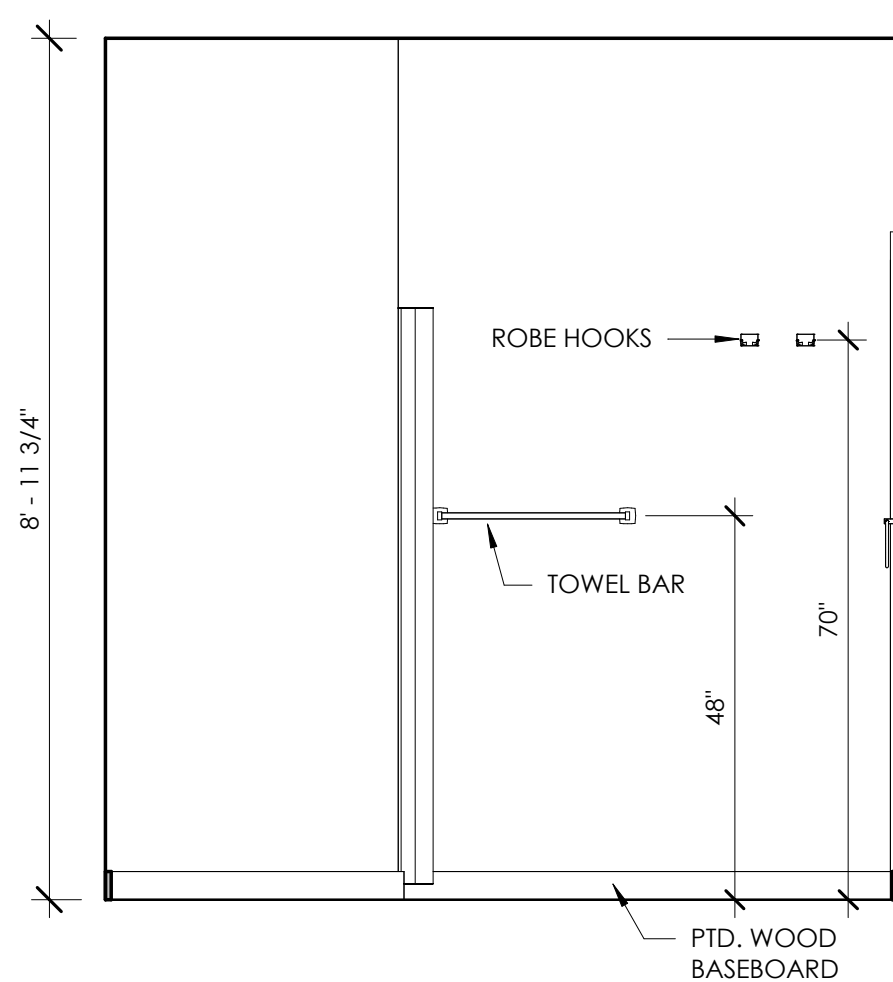
PERMIT SET 05/15/2023

KUA
KILTON/WELCH
DORMITORIES

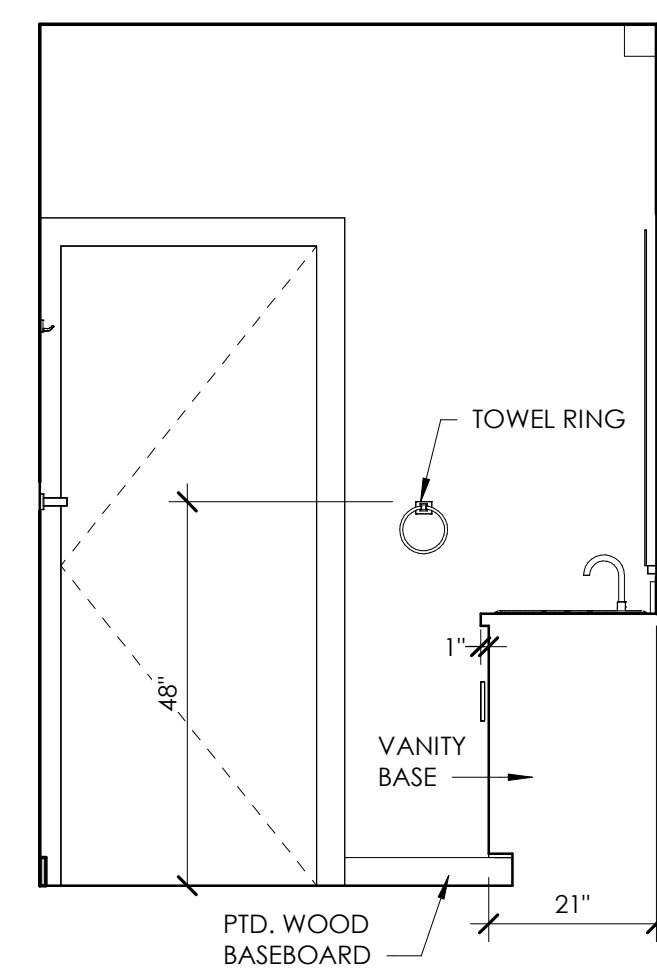
Main Street,
Meriden, NH 03770

WELCH
FACULTY RES.
ENLARGED
BATHROOMS

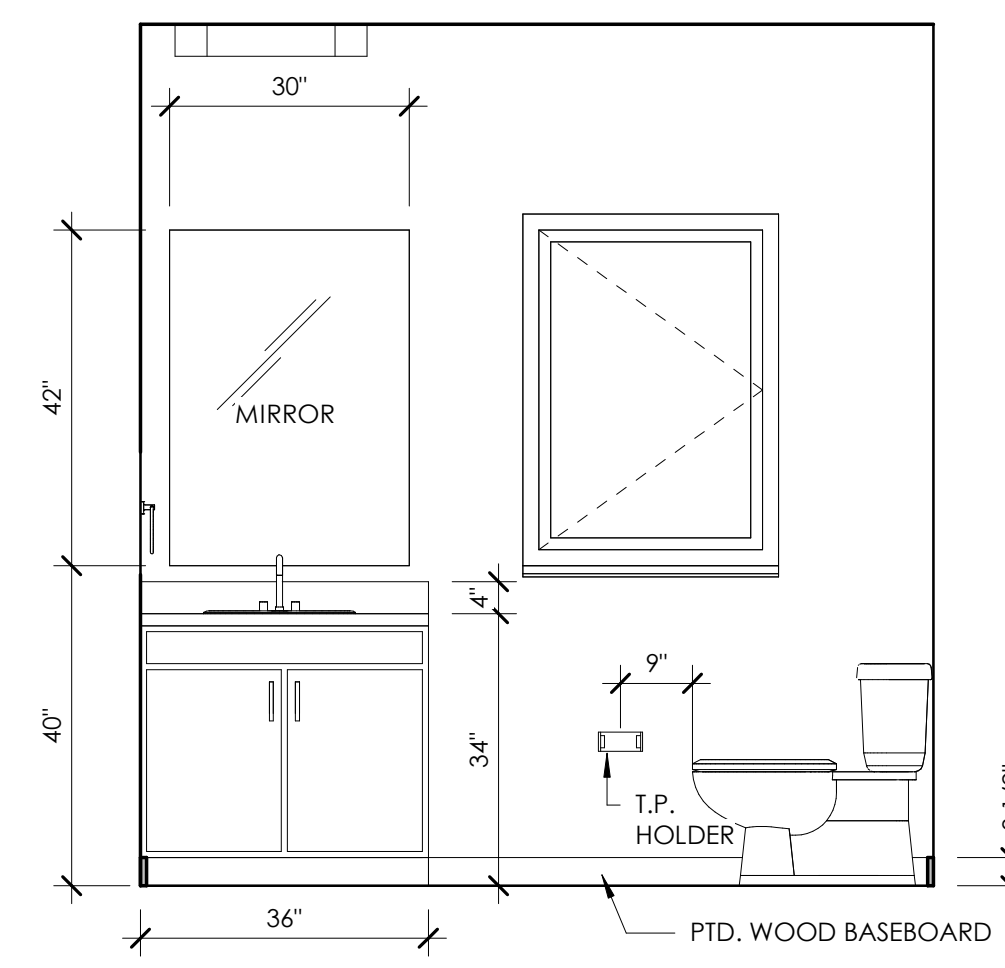
AW-7.7



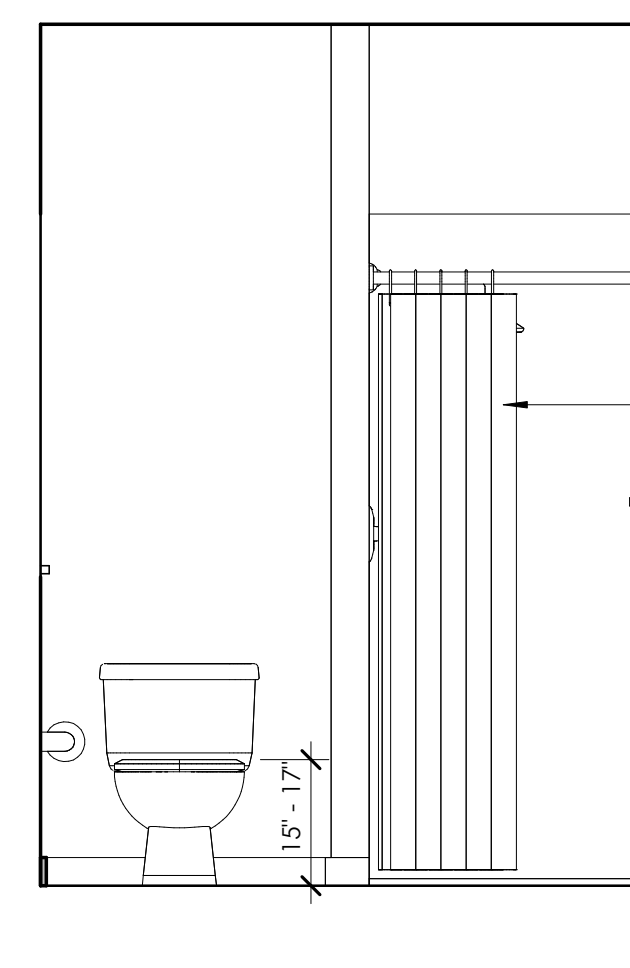
1D F.R. 1ST FLR. BATH EAST WALL
1/2" = 1'-0"



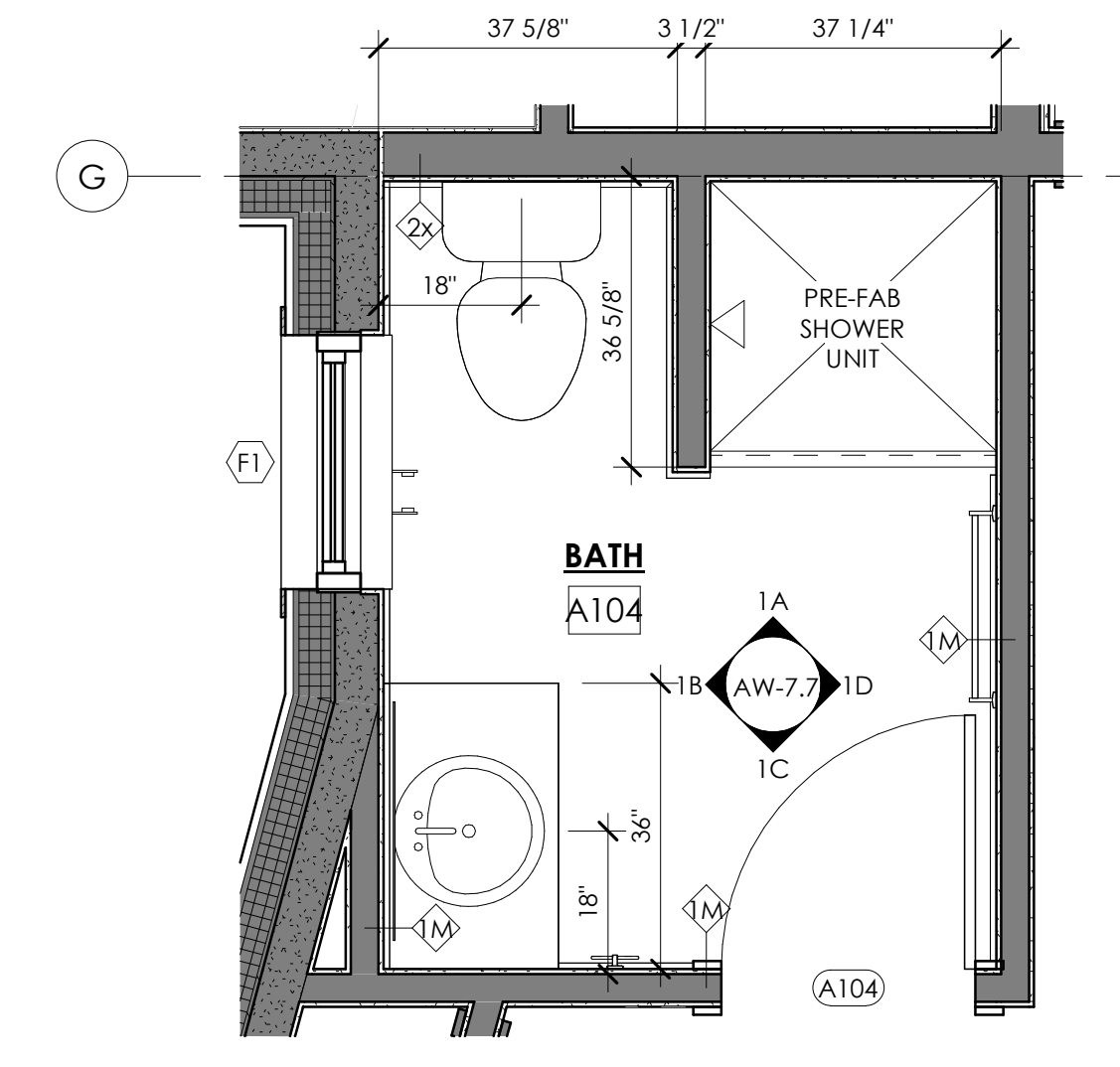
1C F.R. 1ST FLR. BATH SOUTH WALL
1/2" = 1'-0"



1B F.R. 1ST FLR. BATH WEST WALL
1/2" = 1'-0"

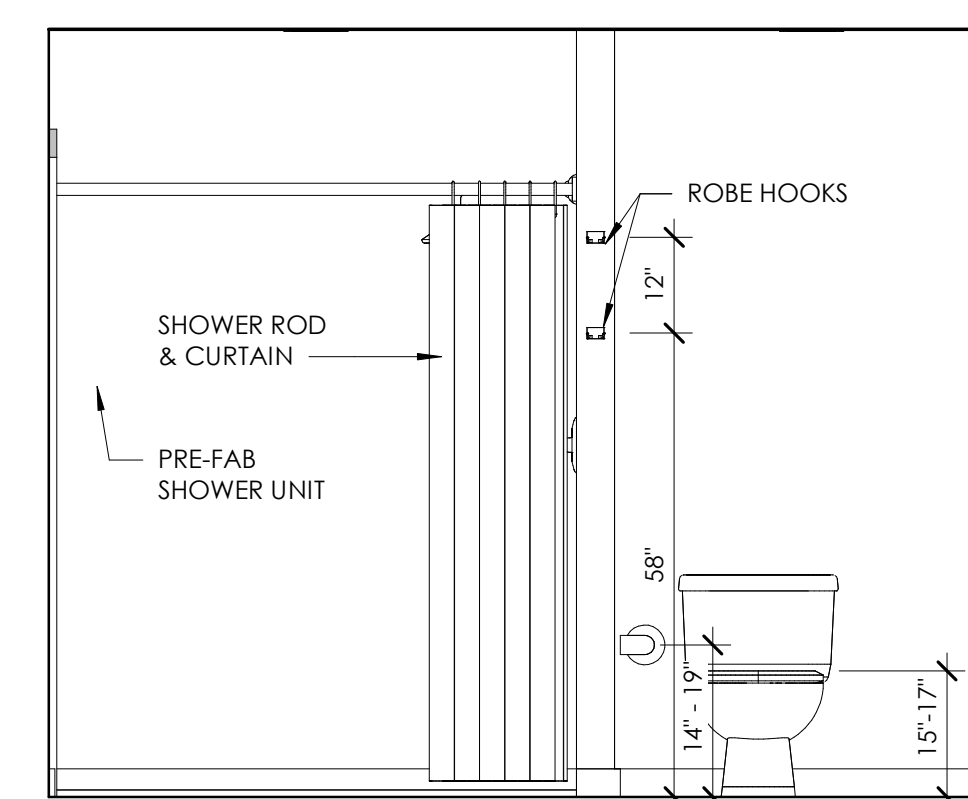


1A F.R. 1ST FLR. BATH NORTH WALL
1/2" = 1'-0"

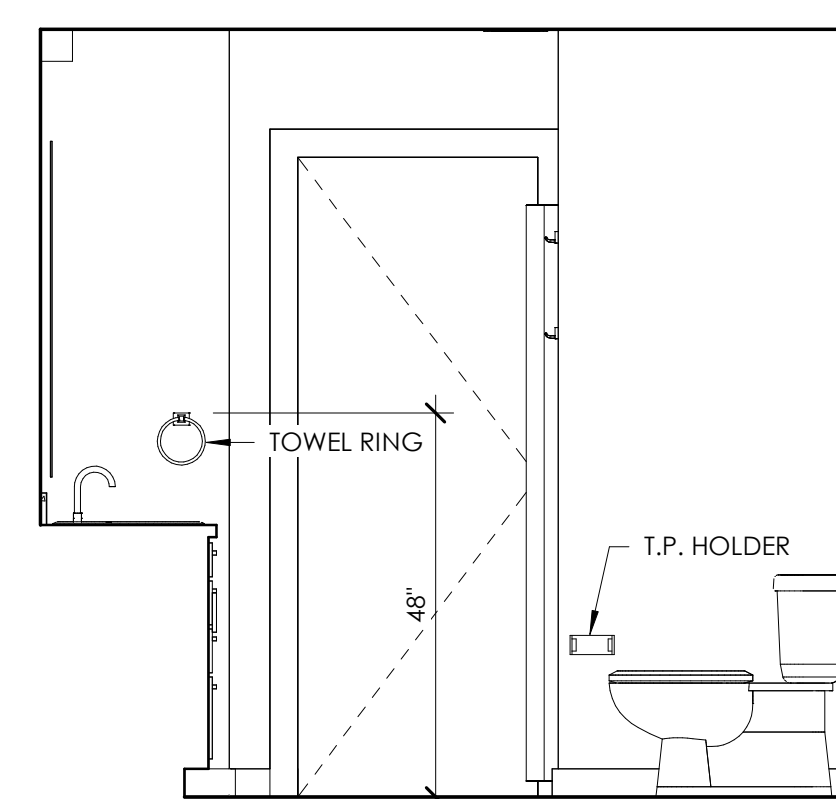


1 First Floor- Faculty Residence Bathroom
1/2" = 1'-0"

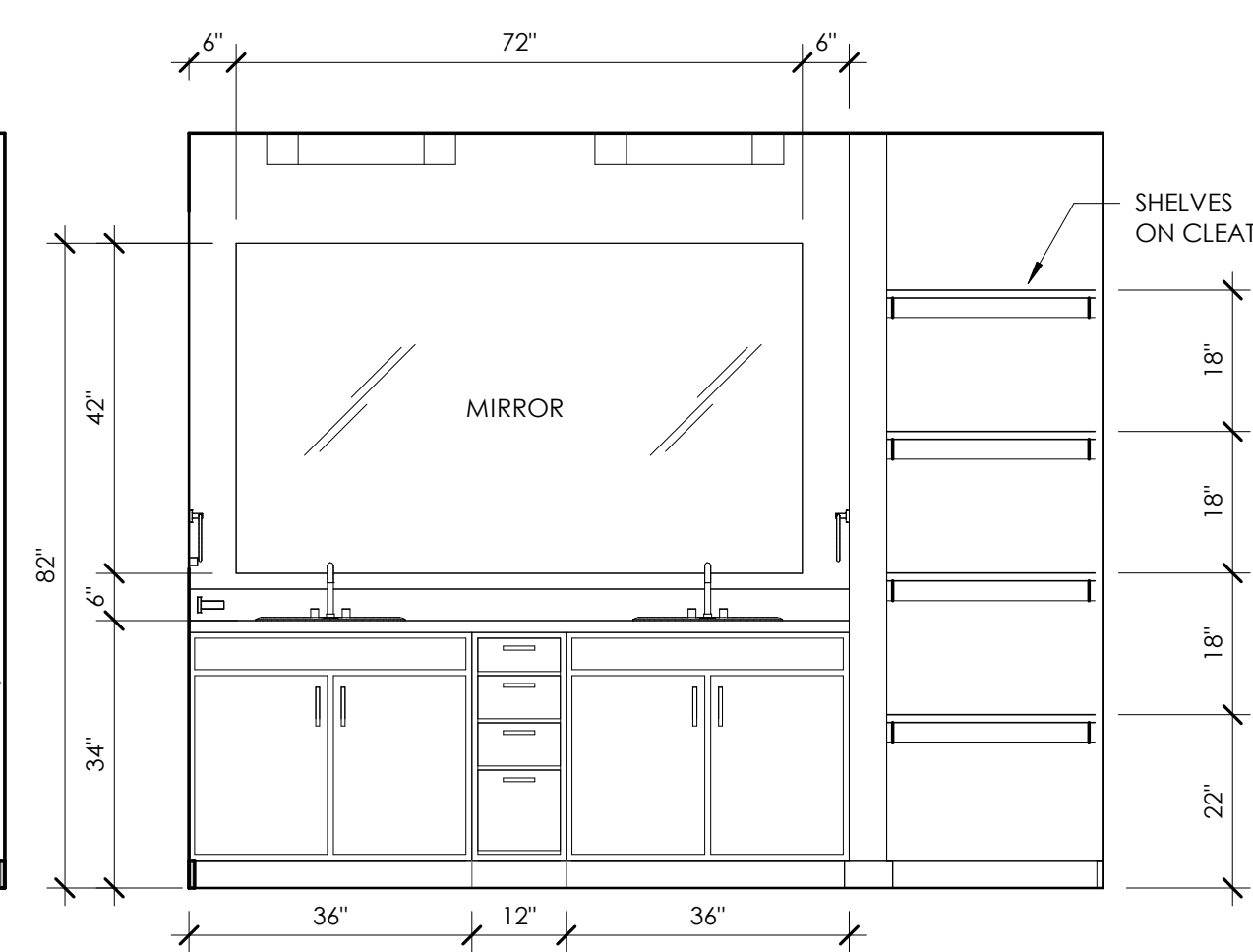
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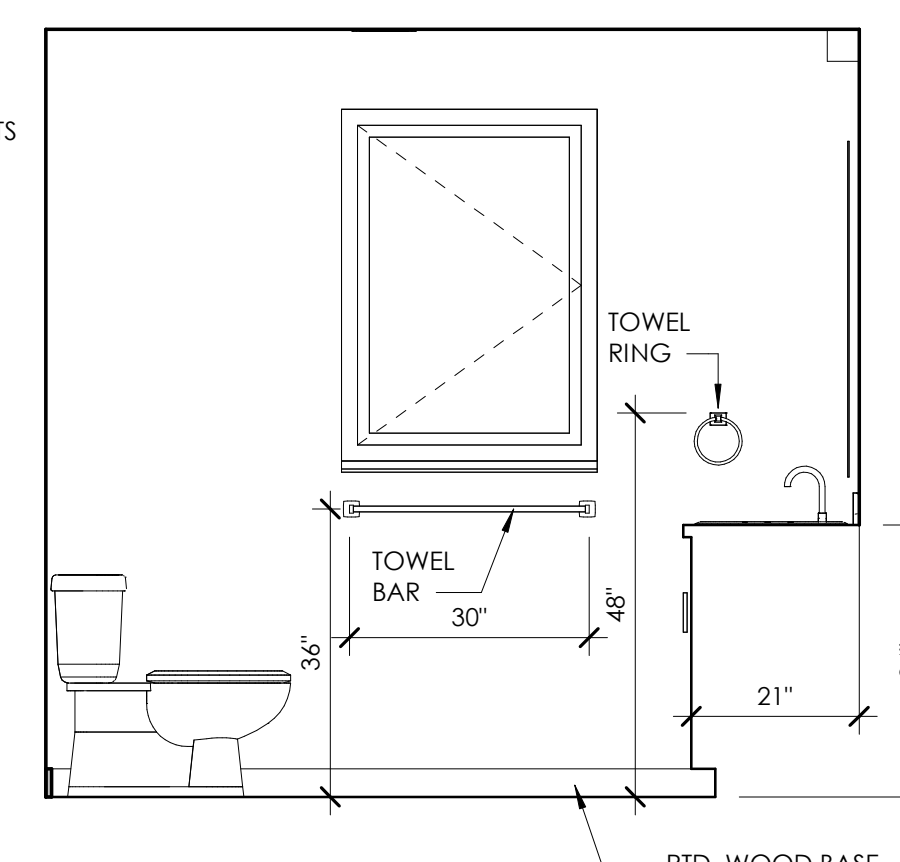
2D F.R. 2ND FLR. PRIMARY BATH WEST WALL
1/2" = 1'-0"



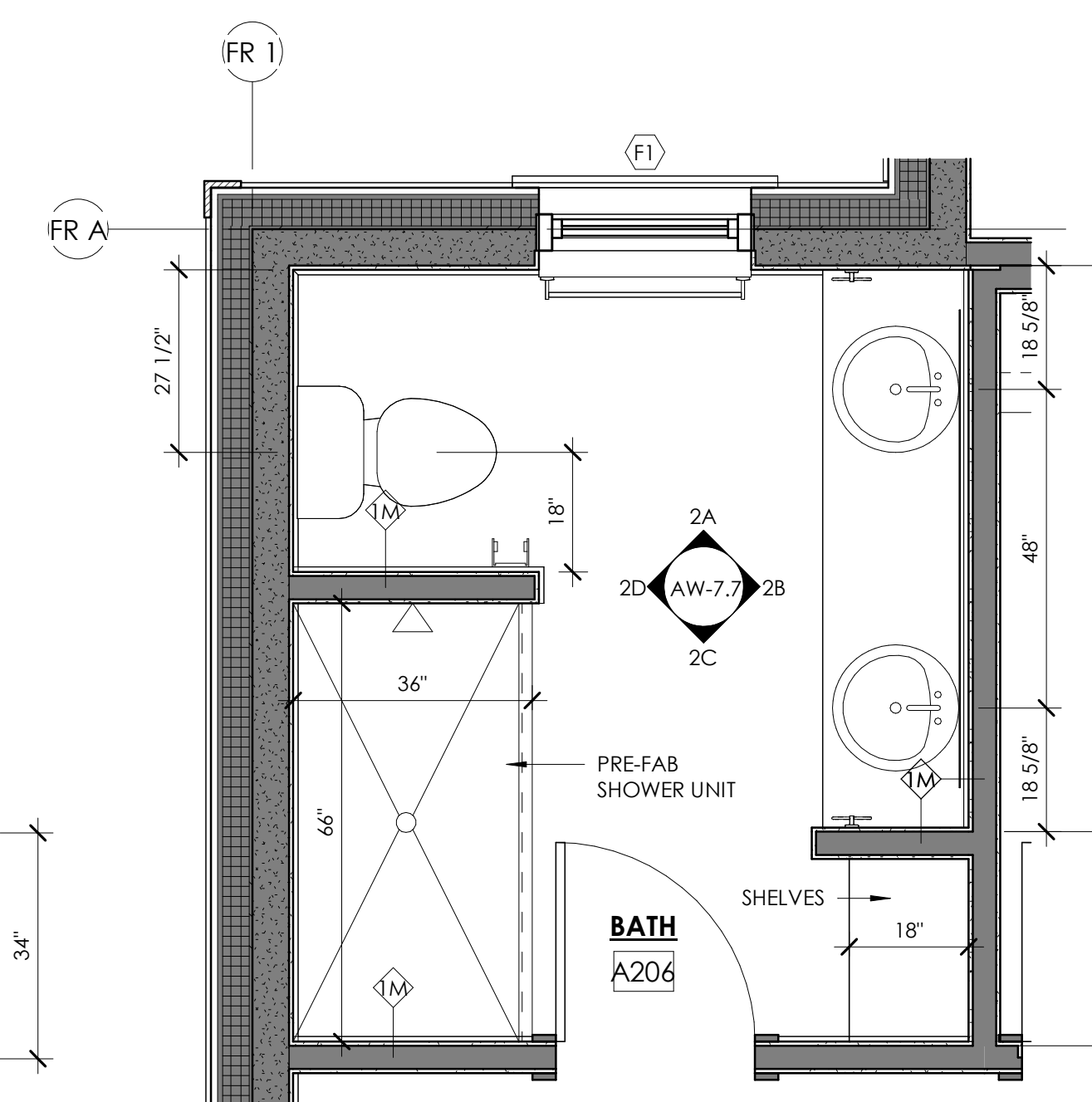
2C F.R. 2ND FLR. PRIMARY BATH SOUTH WALL
1/2" = 1'-0"



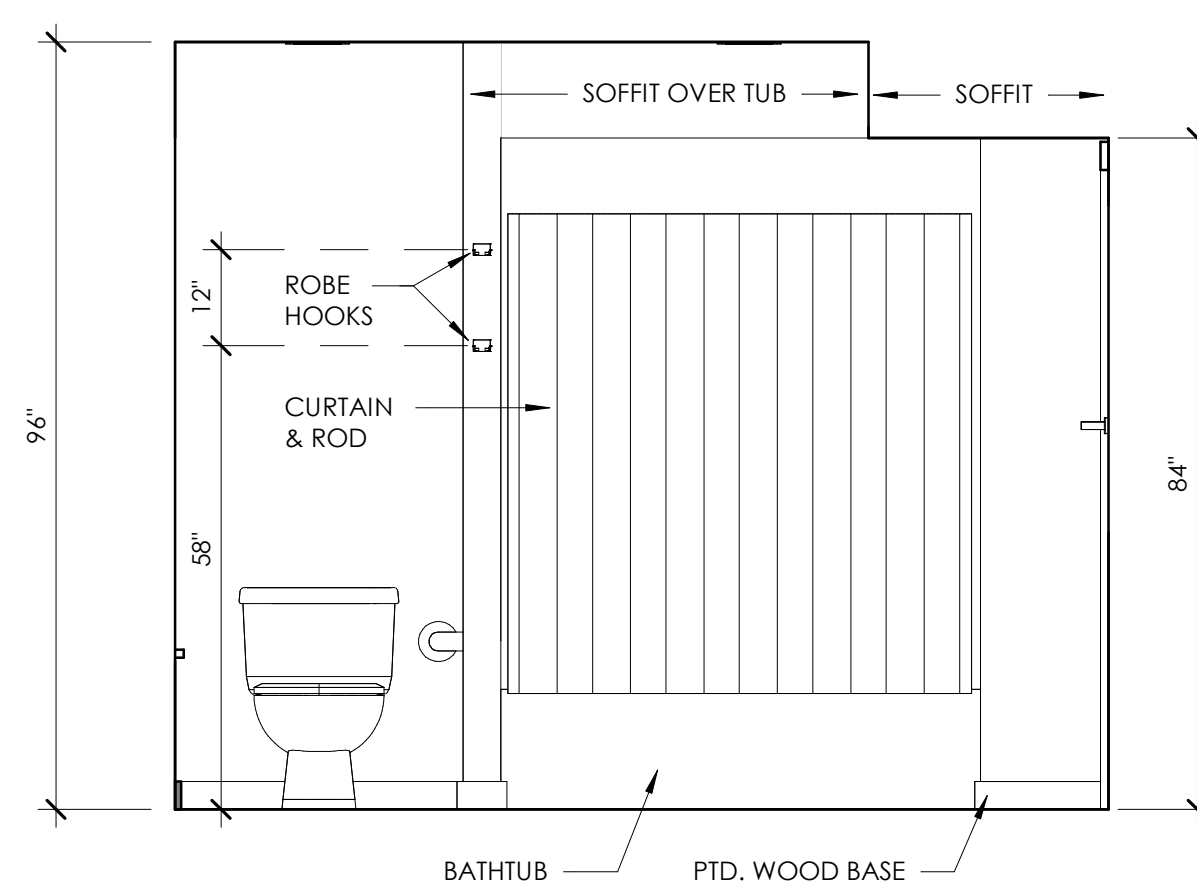
2B F.R. 2ND FLR. PRIMARY BATH EAST WALL
1/2" = 1'-0"



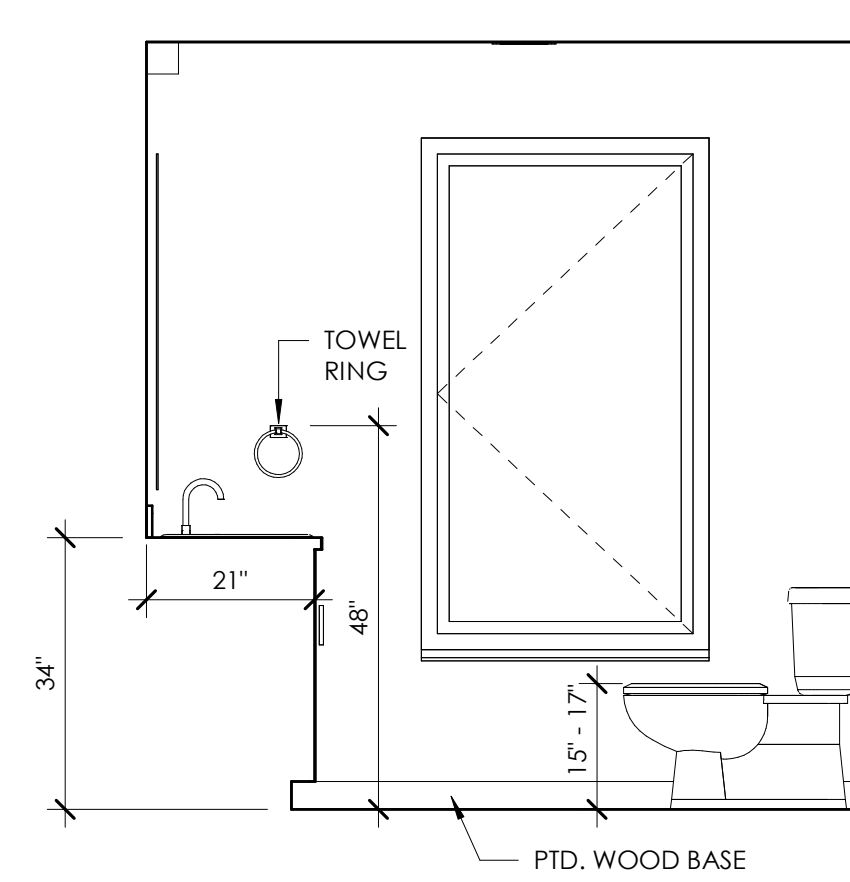
2A F.R. 2ND FLR. PRIMARY BATH NORTH WALL
1/2" = 1'-0"



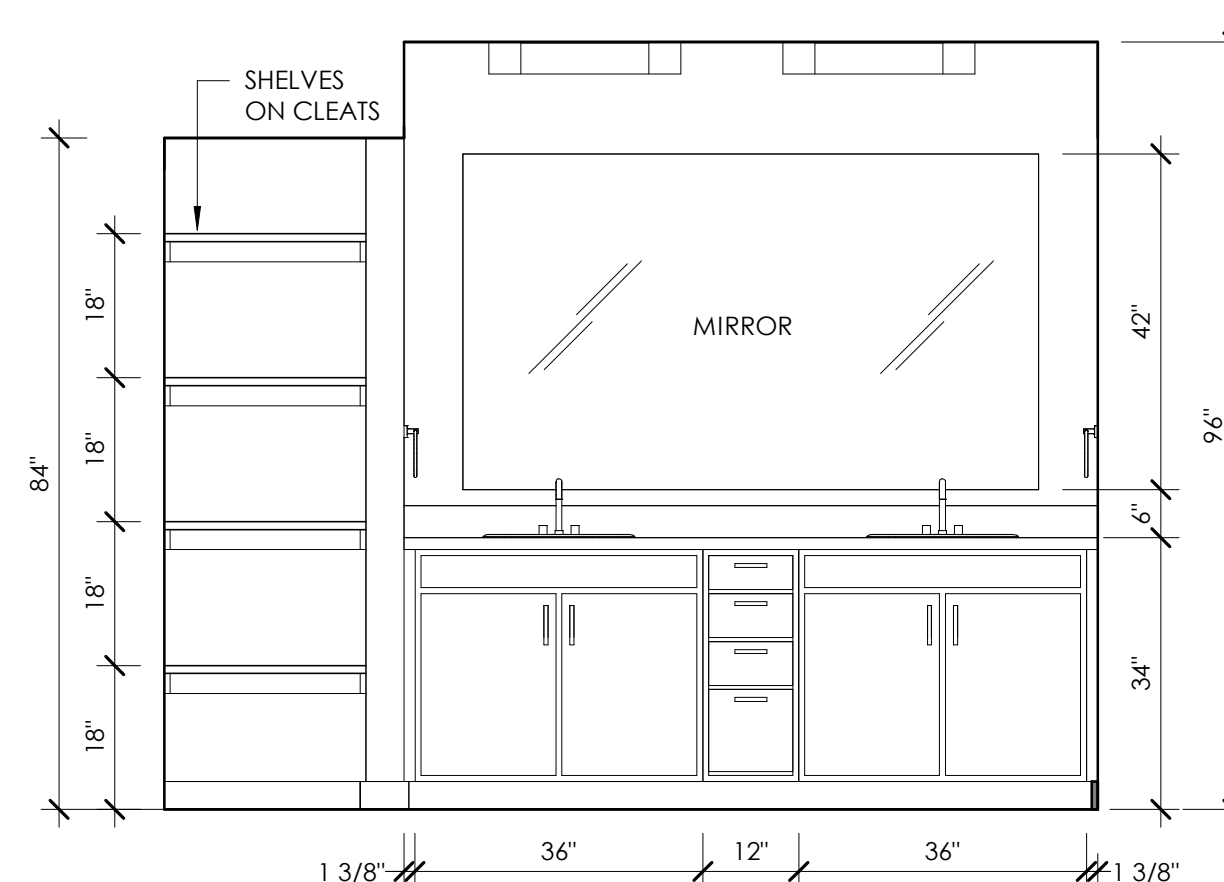
2 Second Flr- Faculty Residence Bath 206
1/2" = 1'-0"



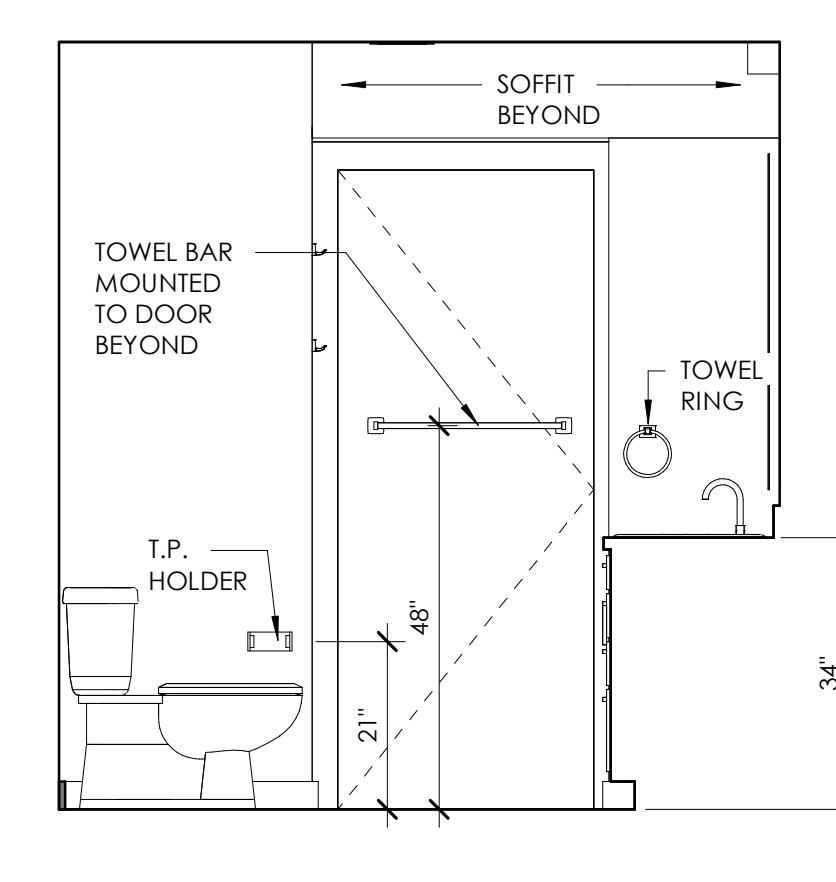
3D F.R. 2ND FLR. BATH WEST WALL
1/2" = 1'-0"



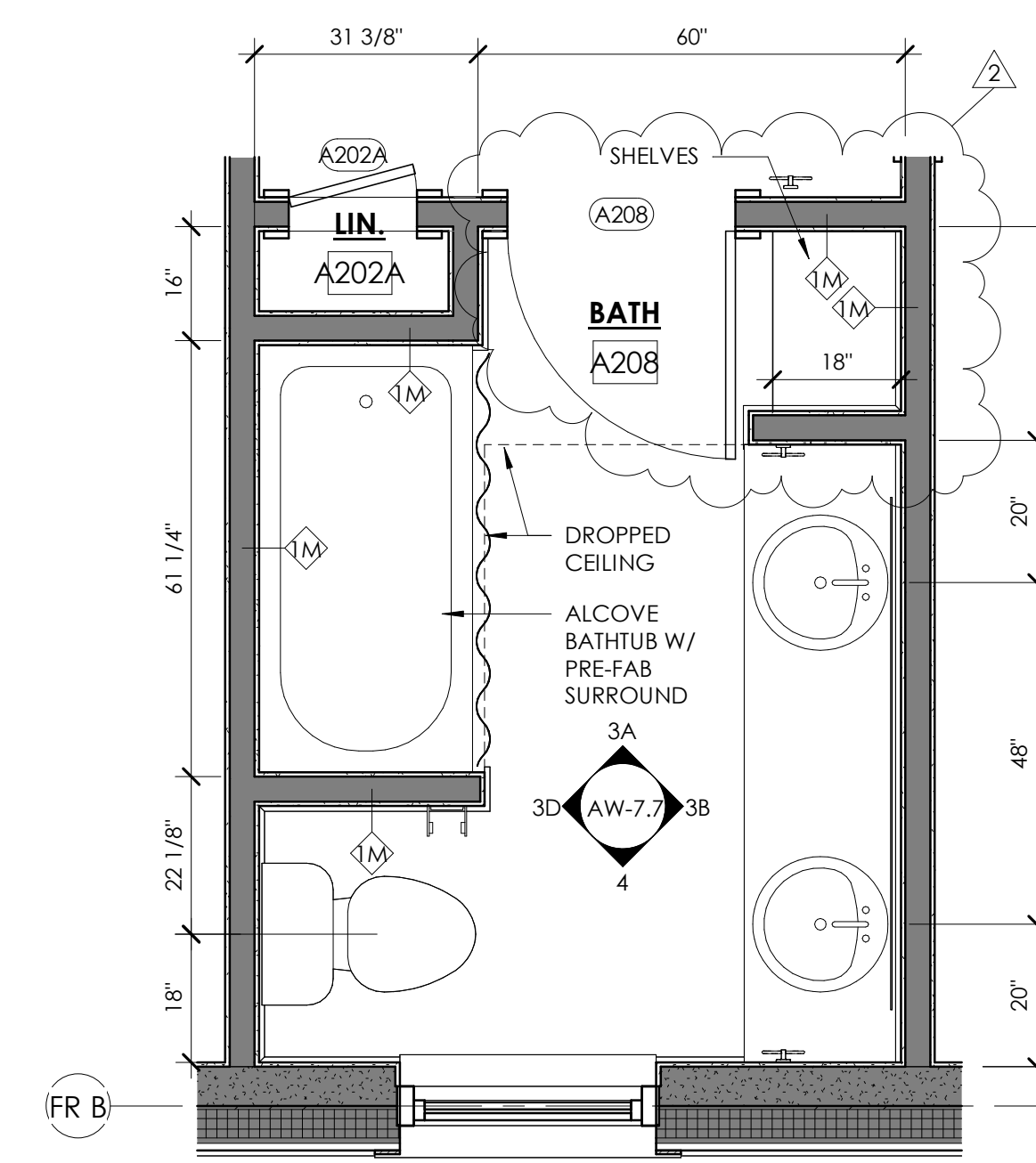
4 F.R. 2ND FLR. BATH SOUTH WALL
1/2" = 1'-0"



3B F.R. 2ND FLR. BATH EAST WALL
1/2" = 1'-0"



3A F.R. 2ND FLR. BATH NORTH WALL
1/2" = 1'-0"



3 Second Flr- Faculty Residence Bath 208
1/2" = 1'-0"

CIVIL ENGINEER

Nicholas Fiore, P.E.
Engineering Ventures
nikf@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E.
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER

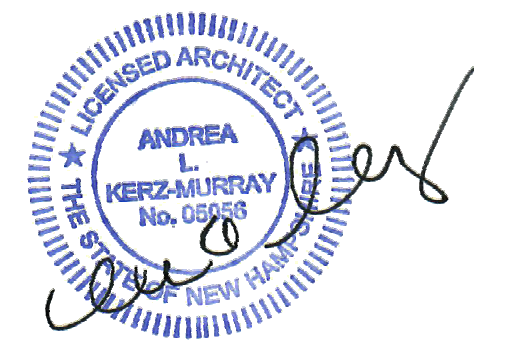
Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvllc.com
802.885.8091

ELECTRICAL ENGINEER

Claus Barfenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.barfenstein@esvllc.com
802.885.8091

CONSTRUCTION MANAGER

Calvin Russell, Senior Project Manager
ReArch Company, Inc.
calvin@rearchcompany.com
802.863.8727



DATE ISSUED: 05/15/23
Drawn: JG
Checked: SR

REVISIONS:

#	Date	Description
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PERMIT SET 05/15/2023

**KUA
KILTON/WELCH
DORMITORIES**

Main Street,
Meriden, NH 03770

**WELCH
ENLARGED DORM
ROOM
DRAWINGS**

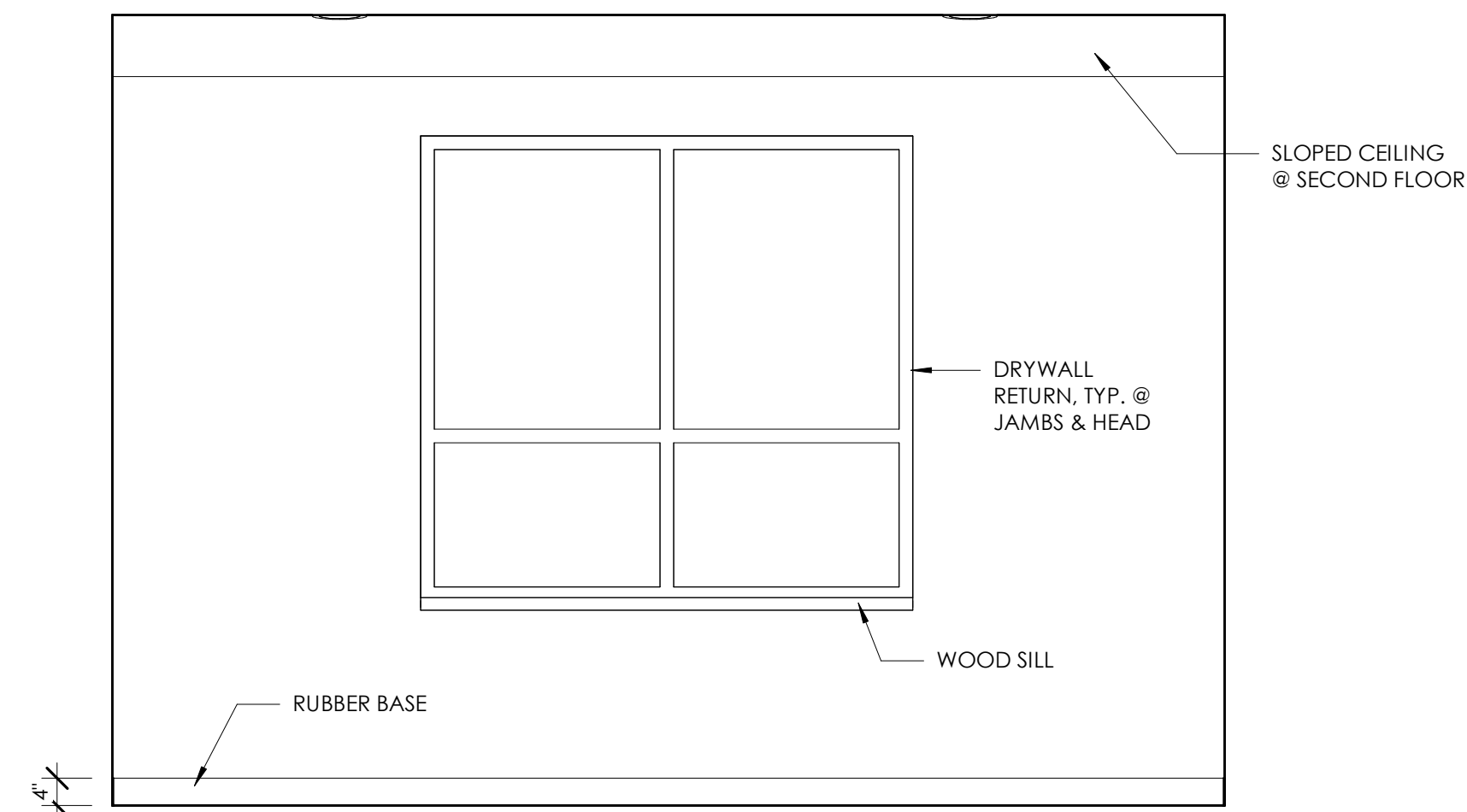
AW-7.8

ENLARGED DRAWING GENERAL NOTES:

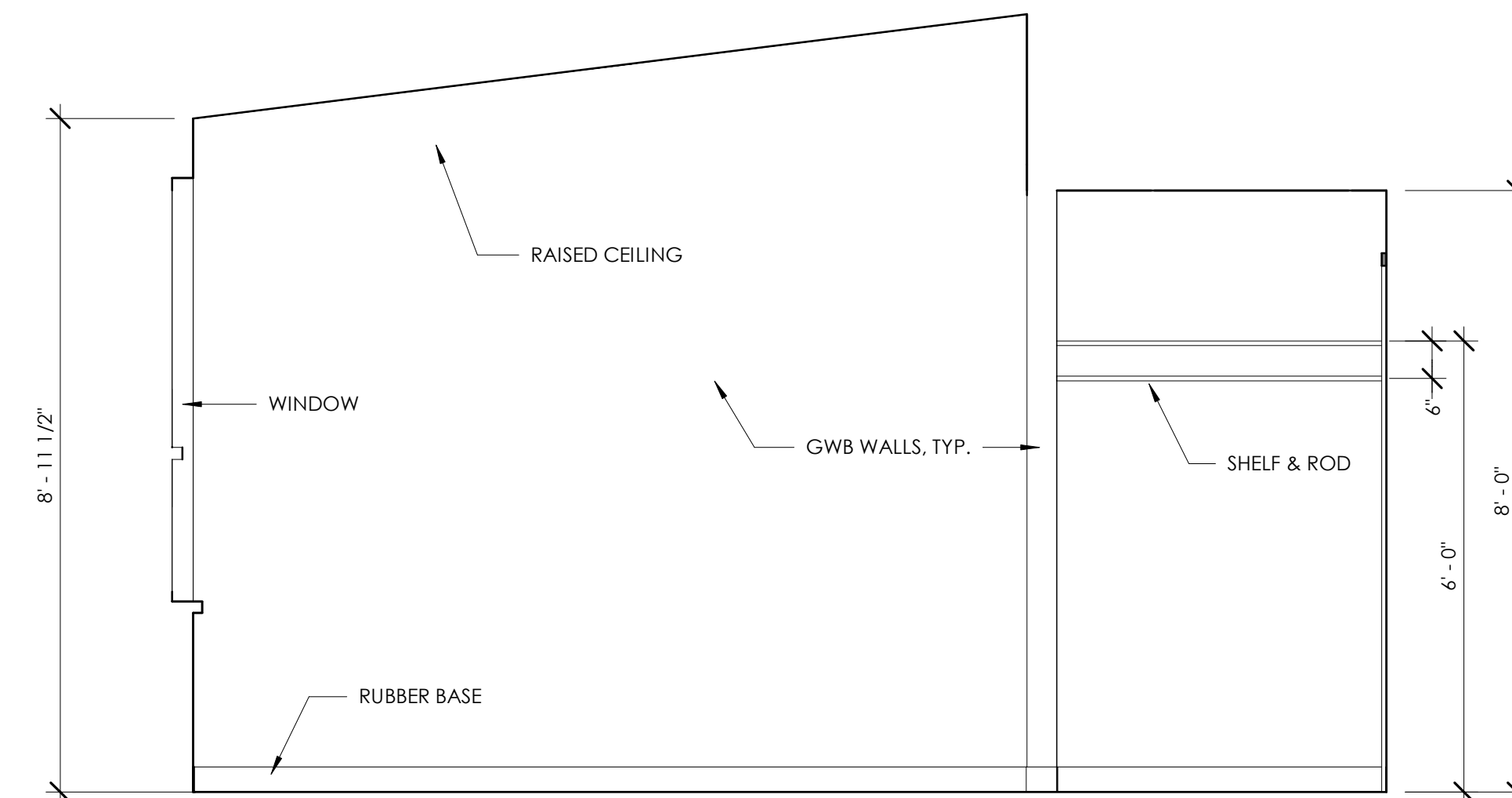
1. ALL WALL/PARTITION DIMENSIONS TO FACE-OF-FRAMING, U.O.N.
2. ALL DIMENSIONS TO BUILT-IN ITEMS AND IN BATHROOMS ARE TO FACE-OF-FINISH, U.O.N.
3. ALL DIMENSIONS TO FIXTURES ARE TO FACE-OF-FINISH OR CENTER-OF-FIXTURE.
4. VERIFY ALL DIMENSIONS AND CONDITIONS IN-FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF DISCREPANCIES.
5. CONFER WITH SHEET AK-9.1 AND ARCHITECTURAL SPECIFICATIONS FOR DETAILS & SCOPE AROUND MILLWORK ITEMS, IN ADDITION TO THIS SHEET.
6. SEE SHEET AK-0.6 FOR INFORMATION ON INTERIOR PARTITIONS.
7. PROVIDE BLOCKING FOR GRAB BARS, TOILET PAPER HOLDERS, TOWEL BARS, MIRRORS, CABINETS, AND OTHER FIT-UP ITEMS. SEE FLOOR PLANS FOR LOCATIONS.
8. ALL FURNITURE AND APPLIANCES BY OWNER (EXCEPT FOR RANGE HOOD); INSTALL COORDINATED WITH CM, BUILT-INS BY CONTRACTOR.
9. ALL BATHROOM WINDOW SILLS TO BE CULTURED MARBLE TO MATCH COUNTER TOP
10. SEE SHEET A-0.2 FOR TYPICAL ACCESSIBILITY DETAILS/REQUIREMENTS.

DORM ROOM NOTES:

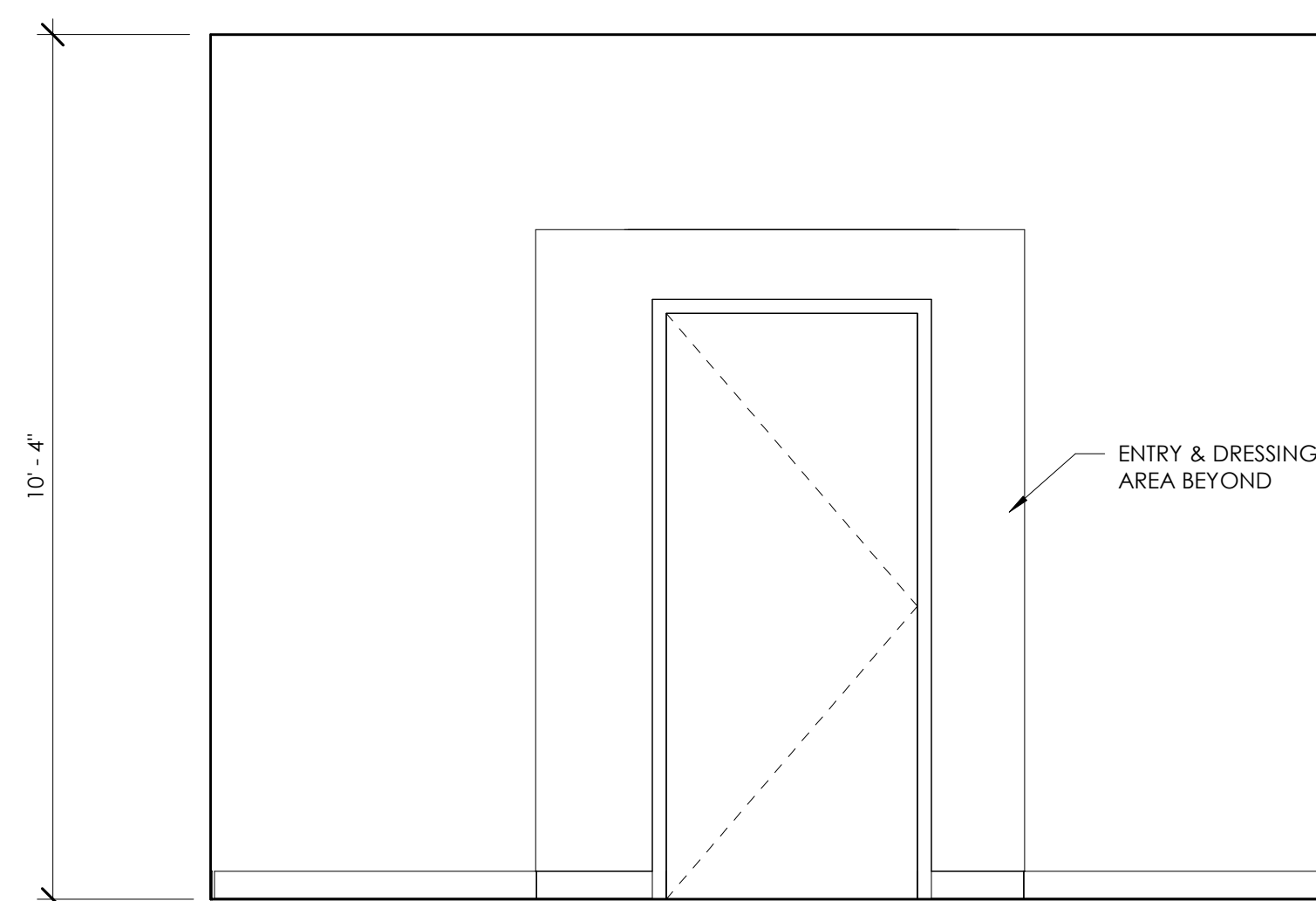
1. DIMENSIONS ARE GIVEN TO FACE OF FRAMING
2. OWNER IS RESPONSIBLE FOR COORDINATING FURNITURE
- 3.



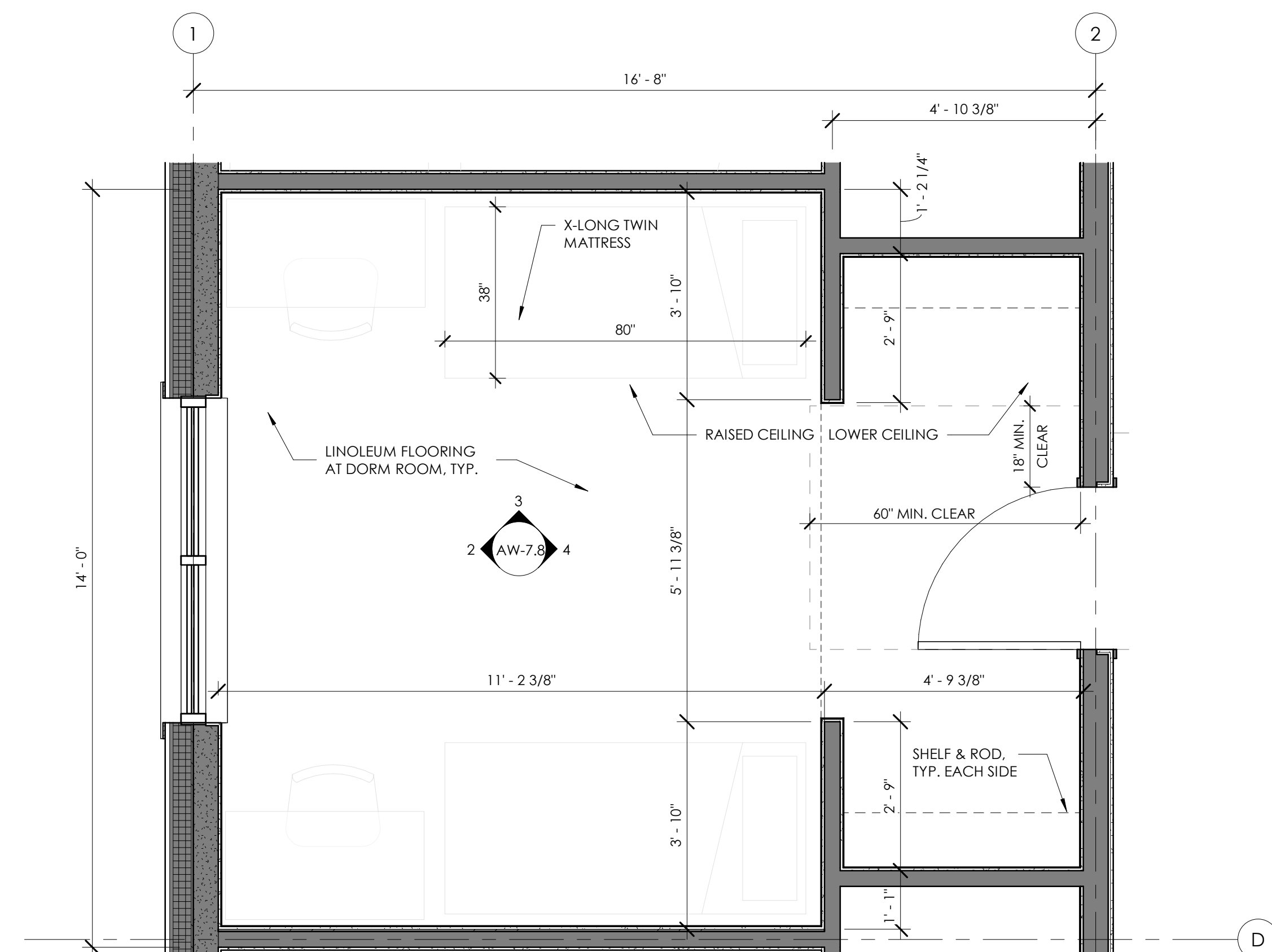
2 Dorm Room Exterior Wall
1/2" = 1'-0"



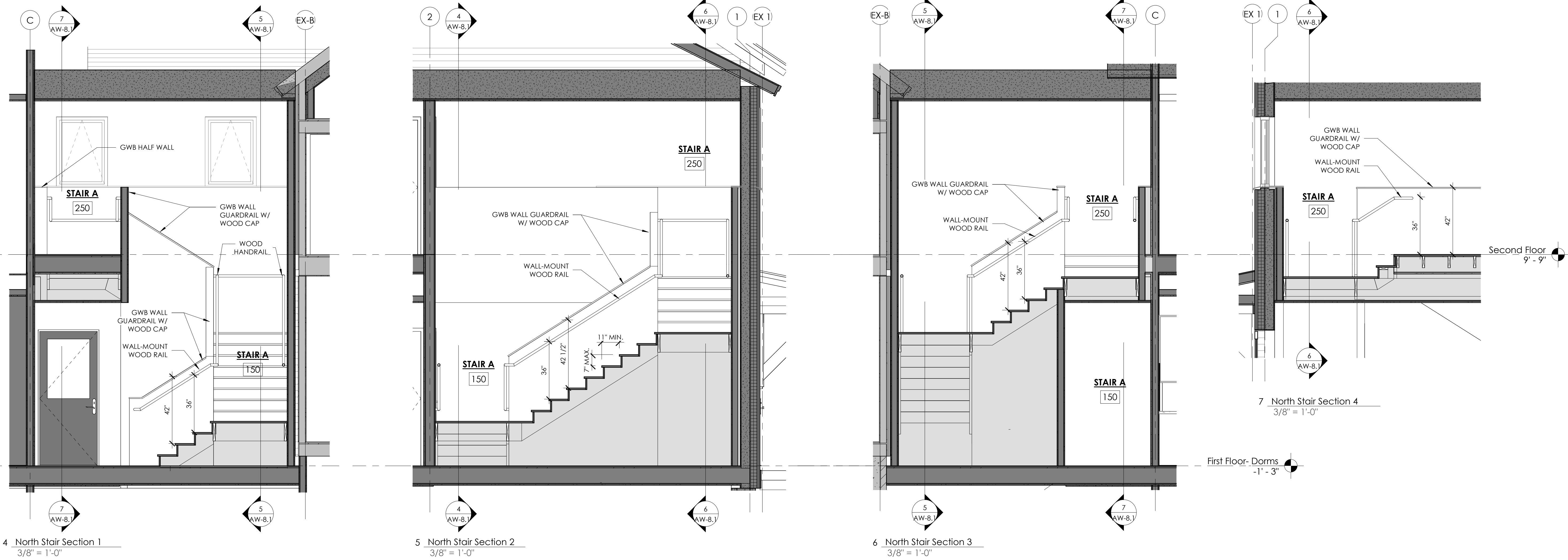
3 Dorm Room Unit Wall
1/2" = 1'-0"



4 Dorm Room Hallway Wall
1/2" = 1'-0"



1 Typical Enlarged Dorm Plan
1/2" = 1'-0"

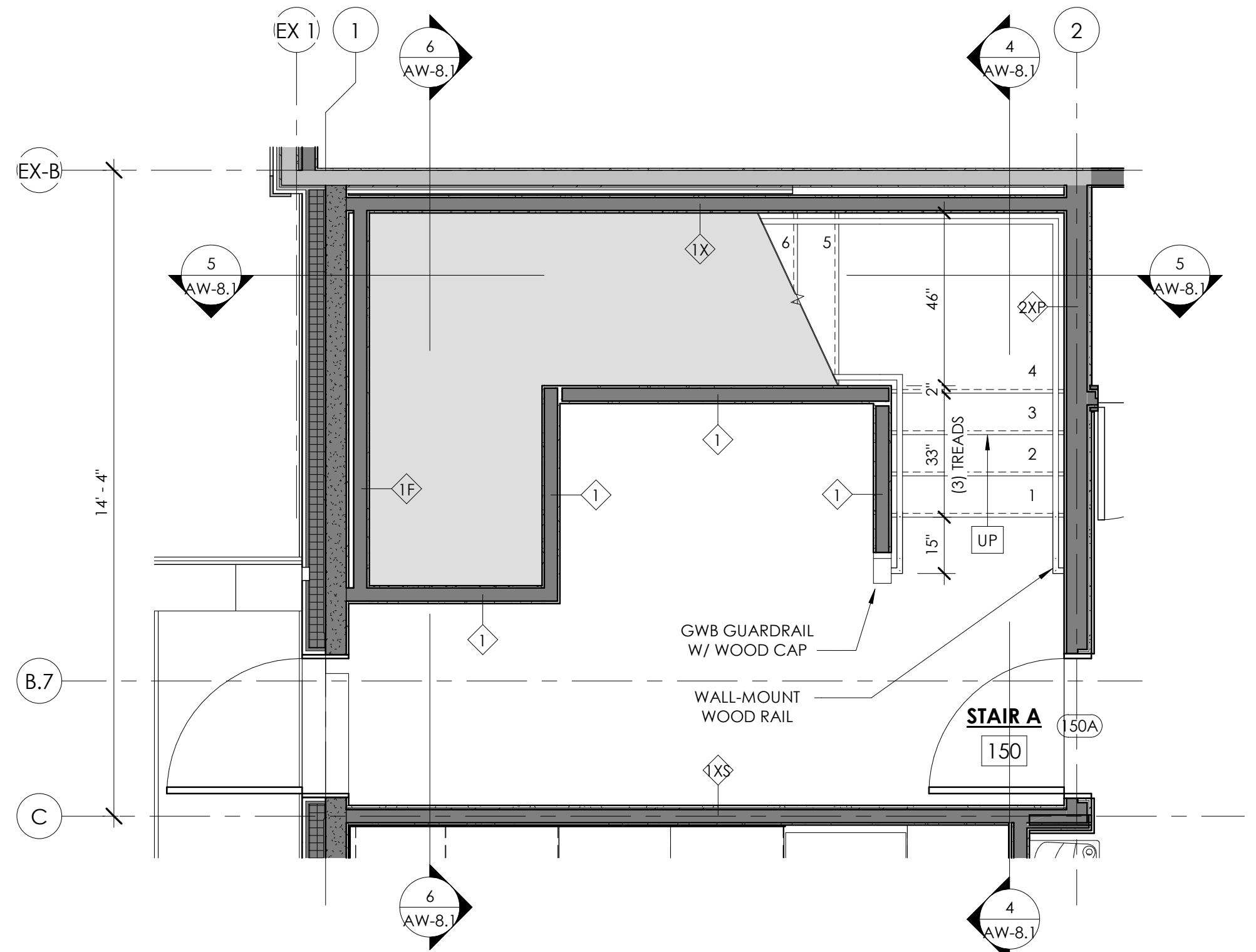


4 North Stair Section 1
3/8" = 1'-0"

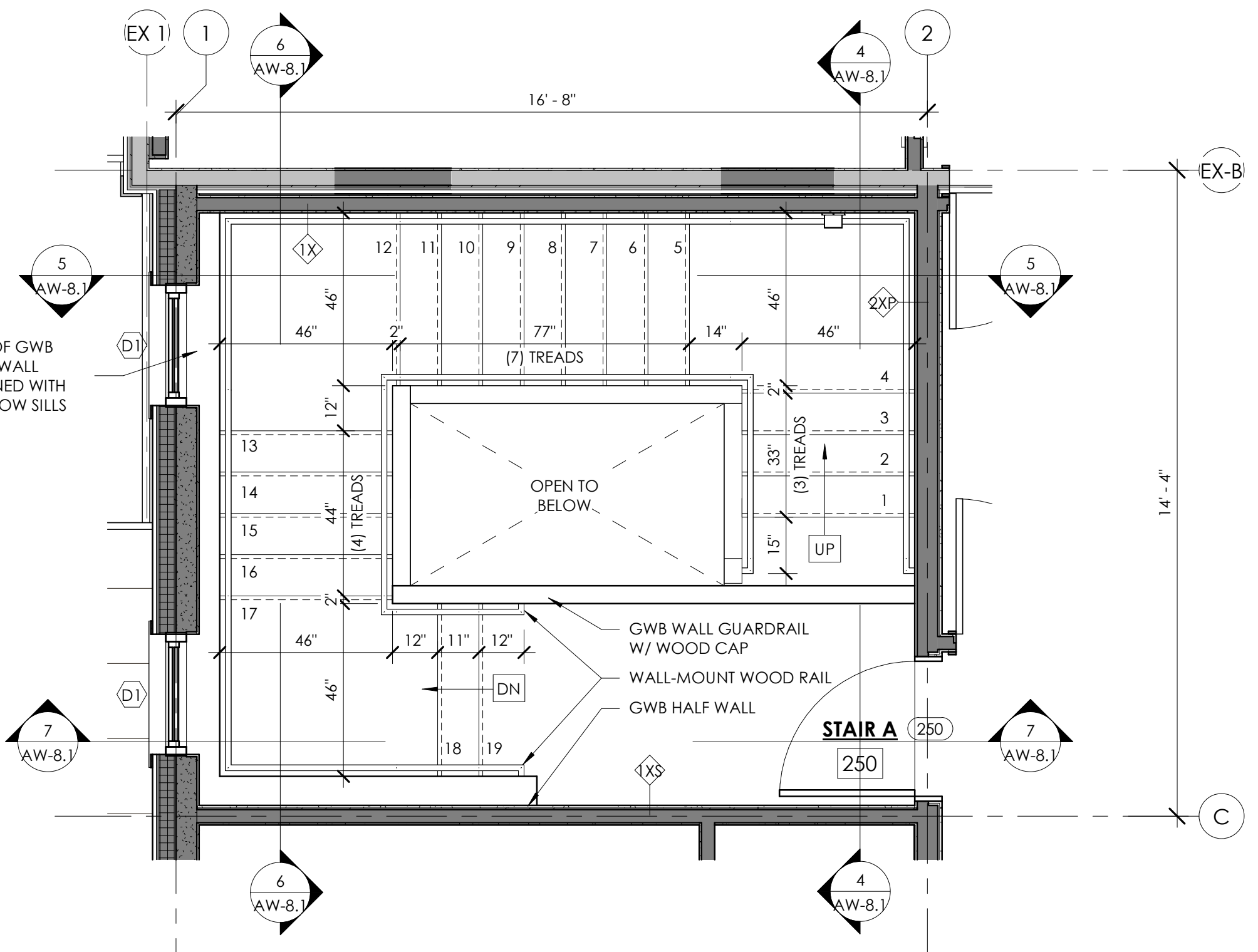
5 North Stair Section 2
3/8" = 1'-0"

6 North Stair Section 3
3/8" = 1'-0"

7 North Stair Section 4
3/8" = 1'-0"



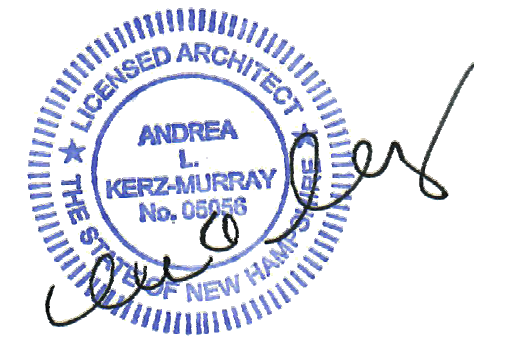
2 North Stair Plan - First Floor
3/8" = 1'-0"



3 North Stair Plan - Second Floor
3/8" = 1'-0"

FLOOR PLAN LEGEND

- EXISTING WALL
- EXISTING CONCRETE WALL
- EXISTING MASONRY WALL
- NEW WALL/NEW WALL INFILL



REVISIONS:

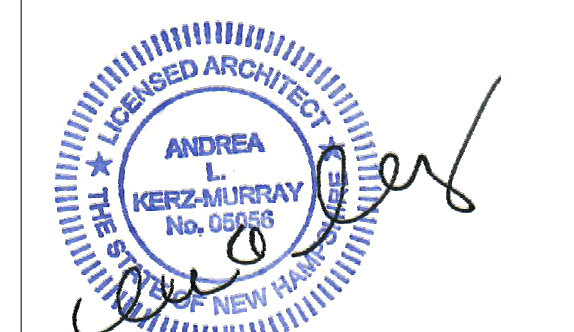
#	Date	Description

PERMIT SET 05/15/2023

**KUA
KILTON/WELCH
DORMITORIES**

Main Street,
Meriden, NH 03770

**WELCH
DORM NORTH
STAIR SECTIONS**



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2	05/15/23	Scope Changes to Bid Set #1

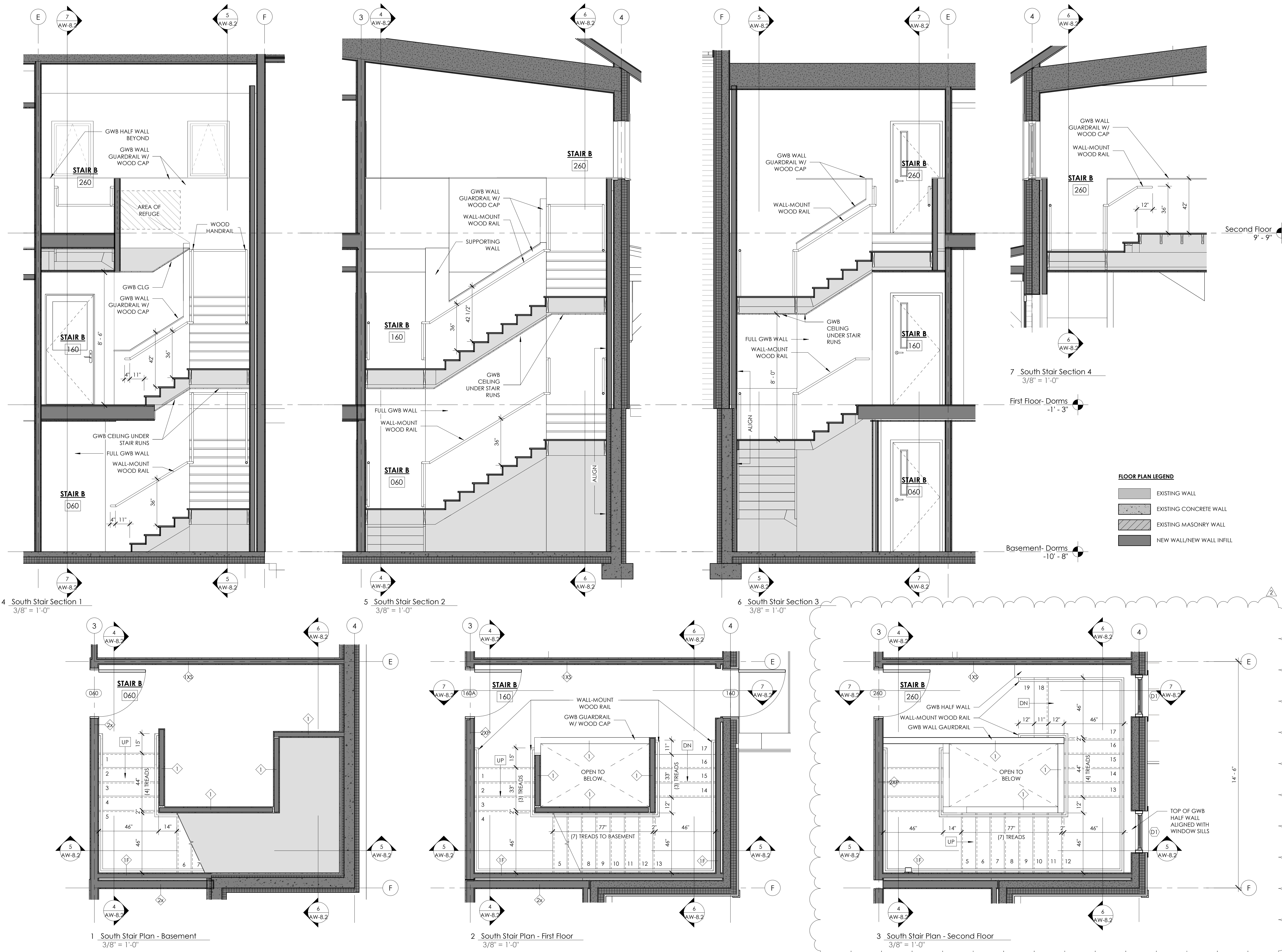
PERMIT SET 05/15/2023

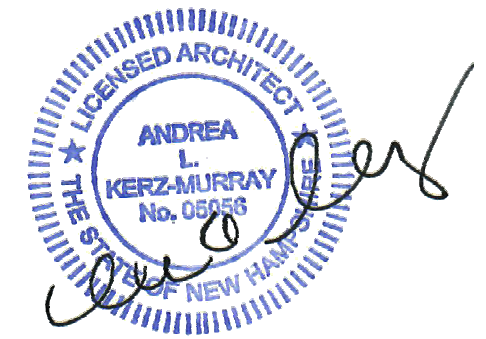
KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

WELCH
DORM SOUTH
STAIR SECTIONS

AW-8.2





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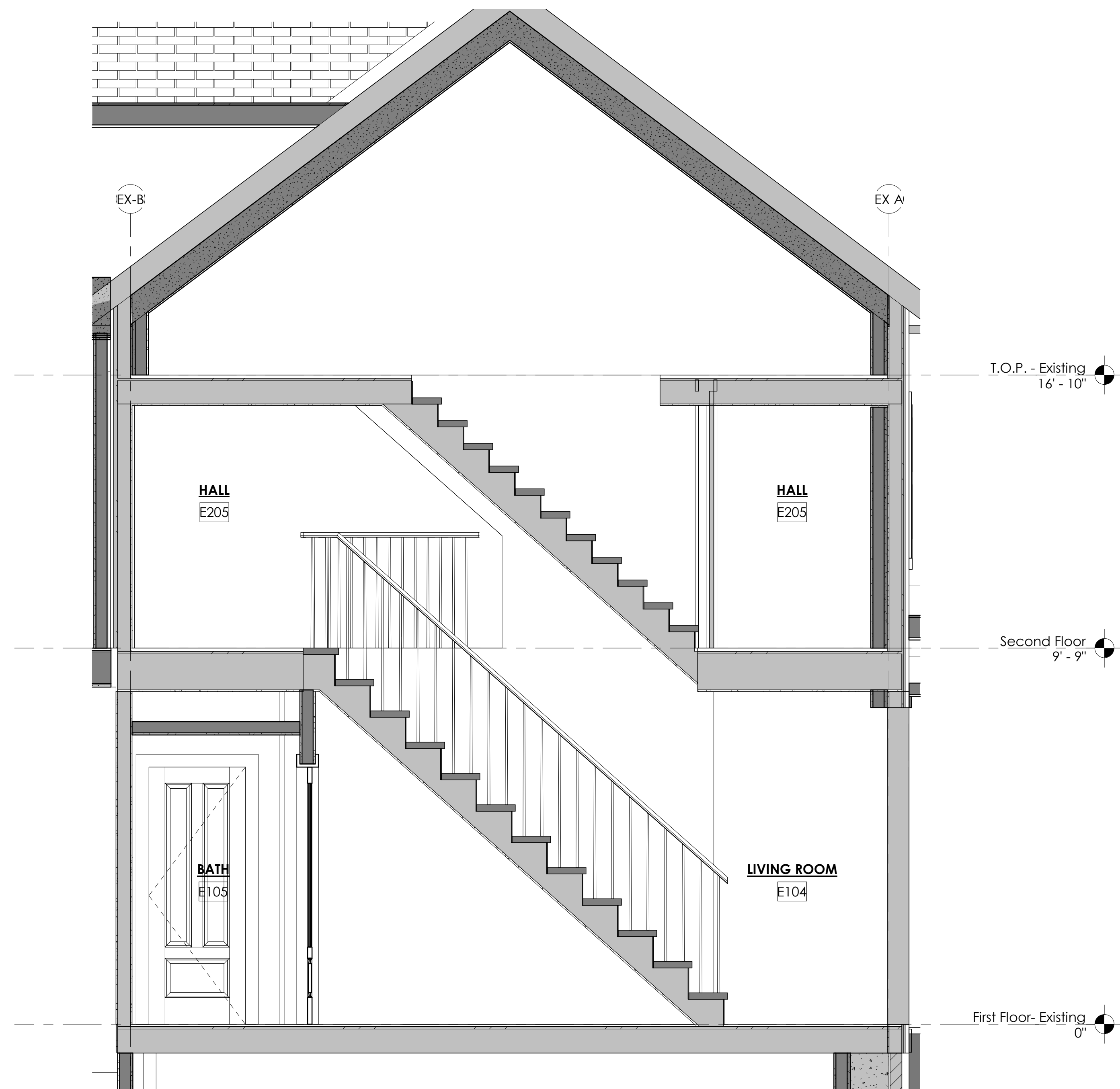
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KUA
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DORMITORIES

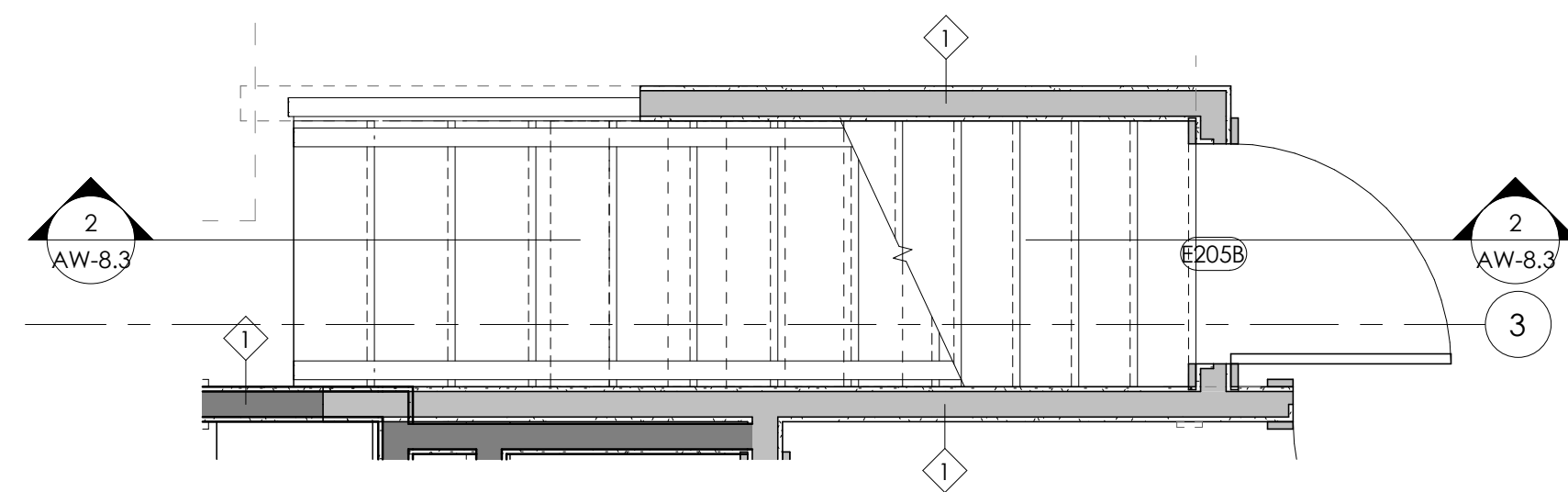
Main Street,
Meriden, NH 03770

WELCH
ALL FACULTY
RESIDENCES STAIR
SECTIONS

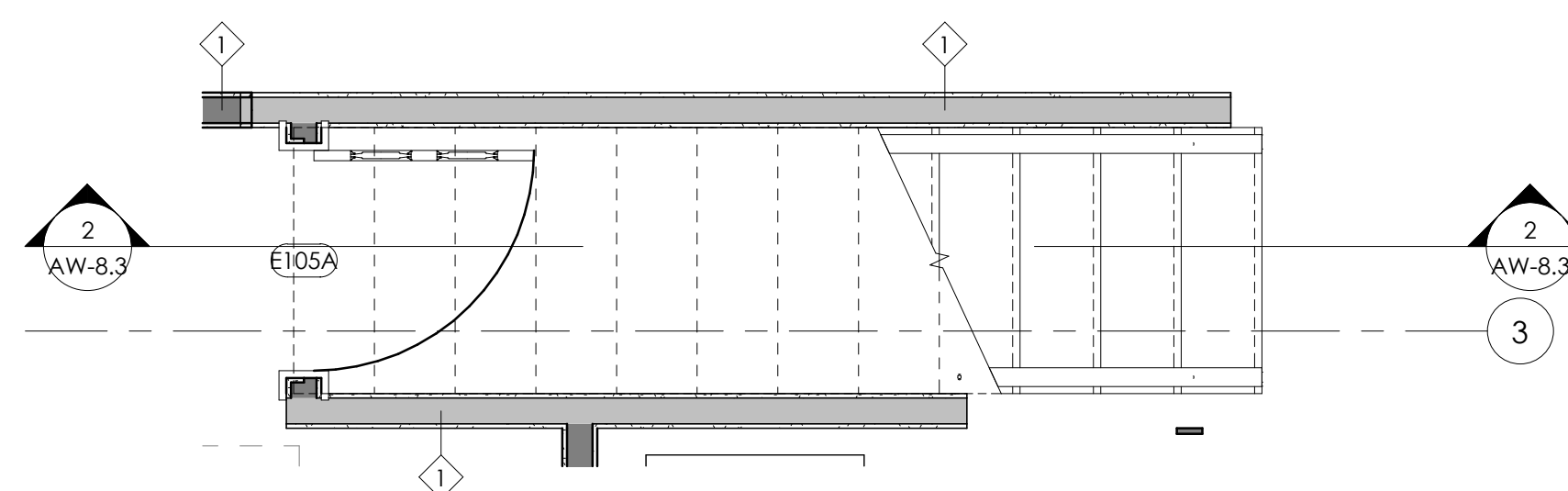
AW-8.3



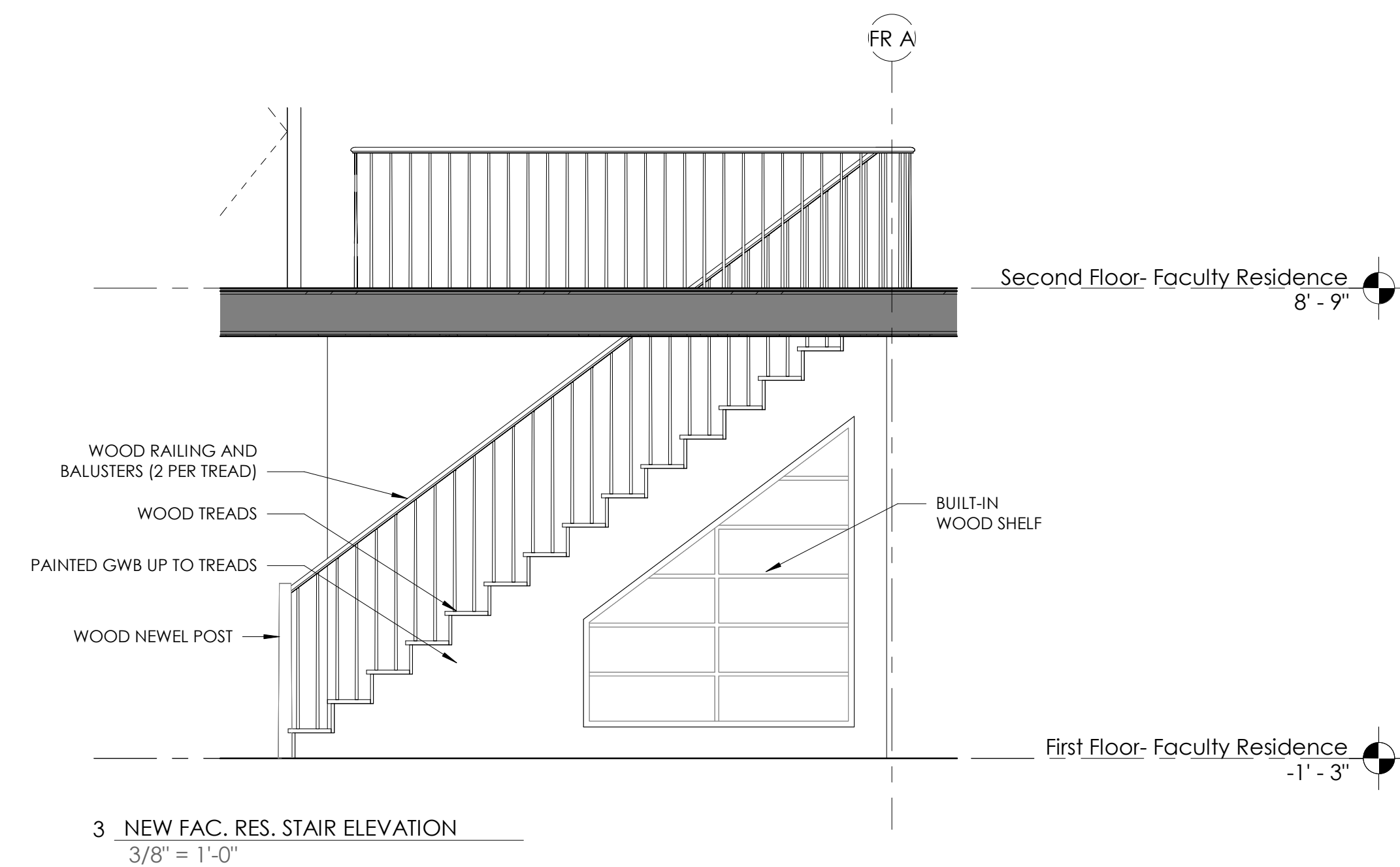
2 Existing Faculty Residence Stair Section
1/2" = 1'-0"



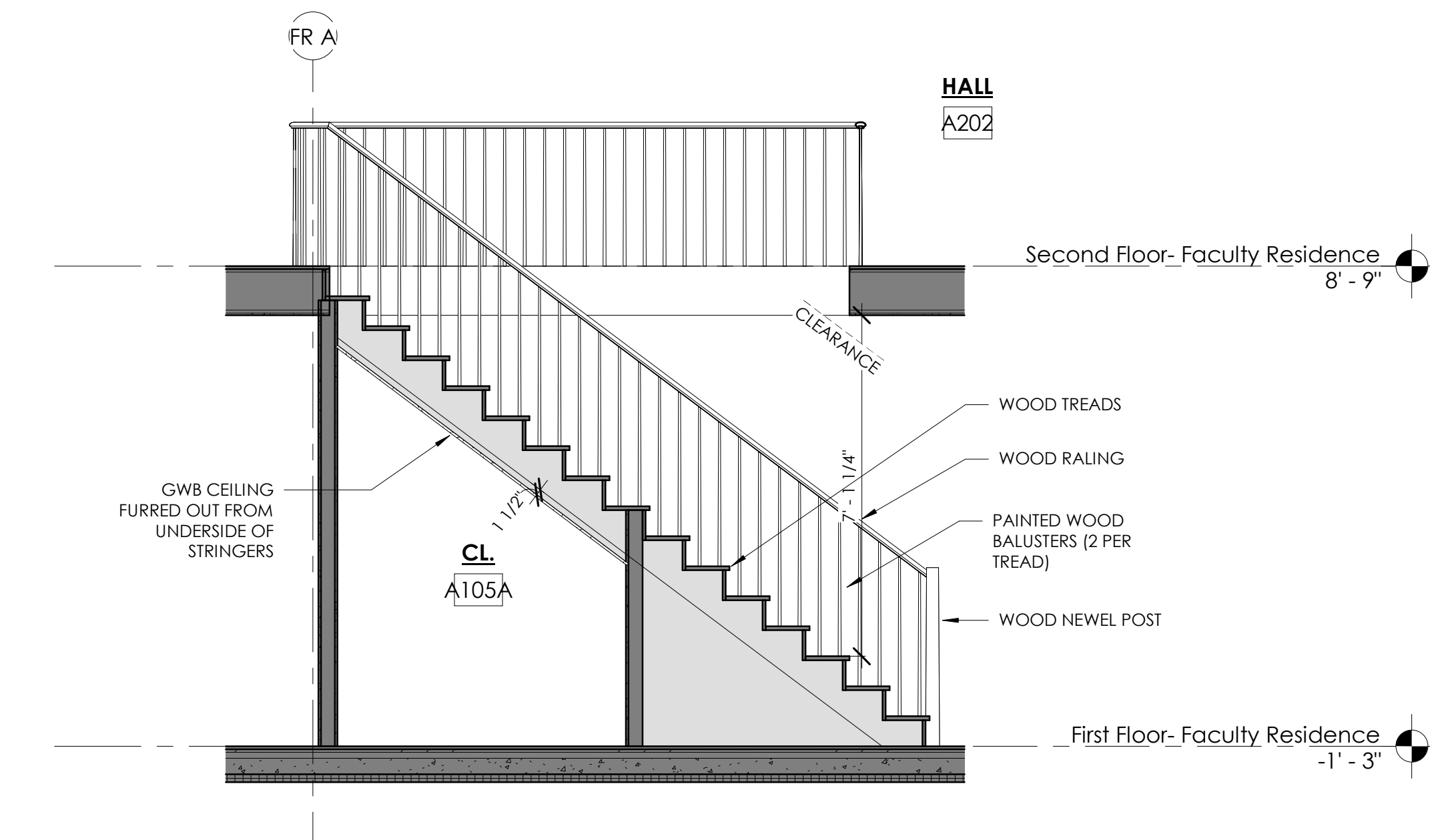
6 Existing Faculty Residence Second Floor Plan
1/2" = 1'-0"



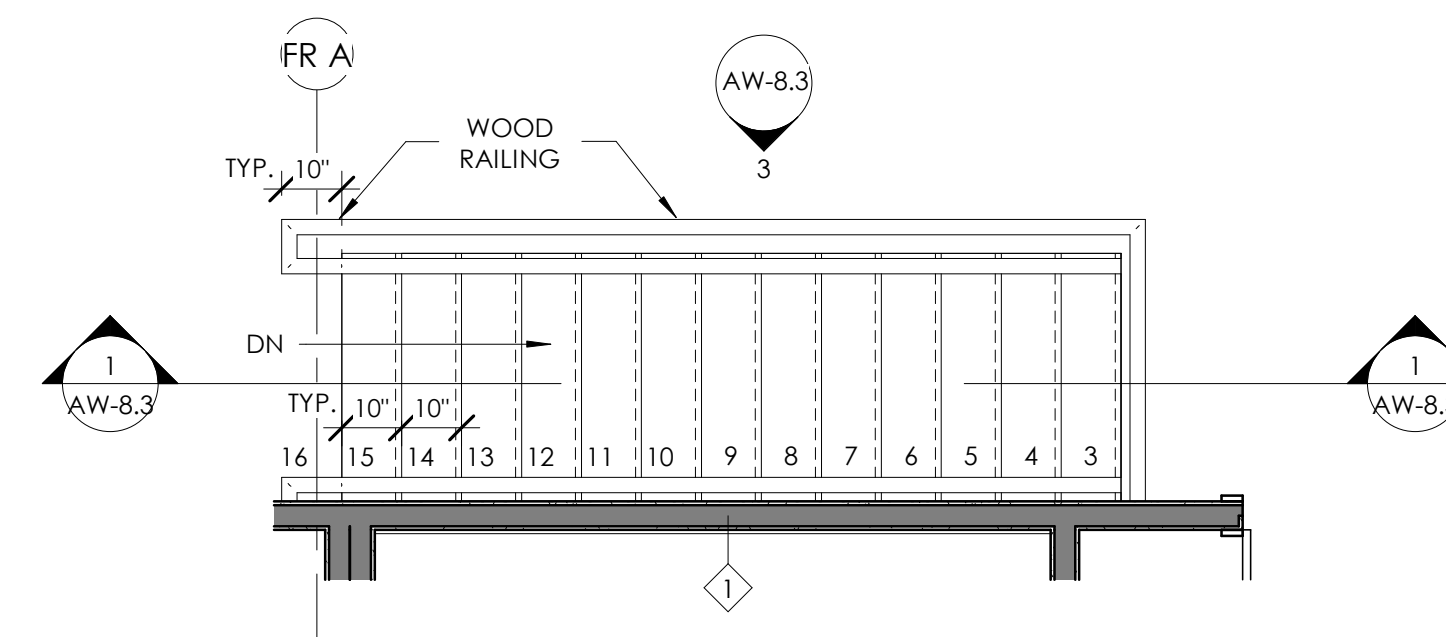
5 Existing Faculty Residence First Floor Plan
1/2" = 1'-0"



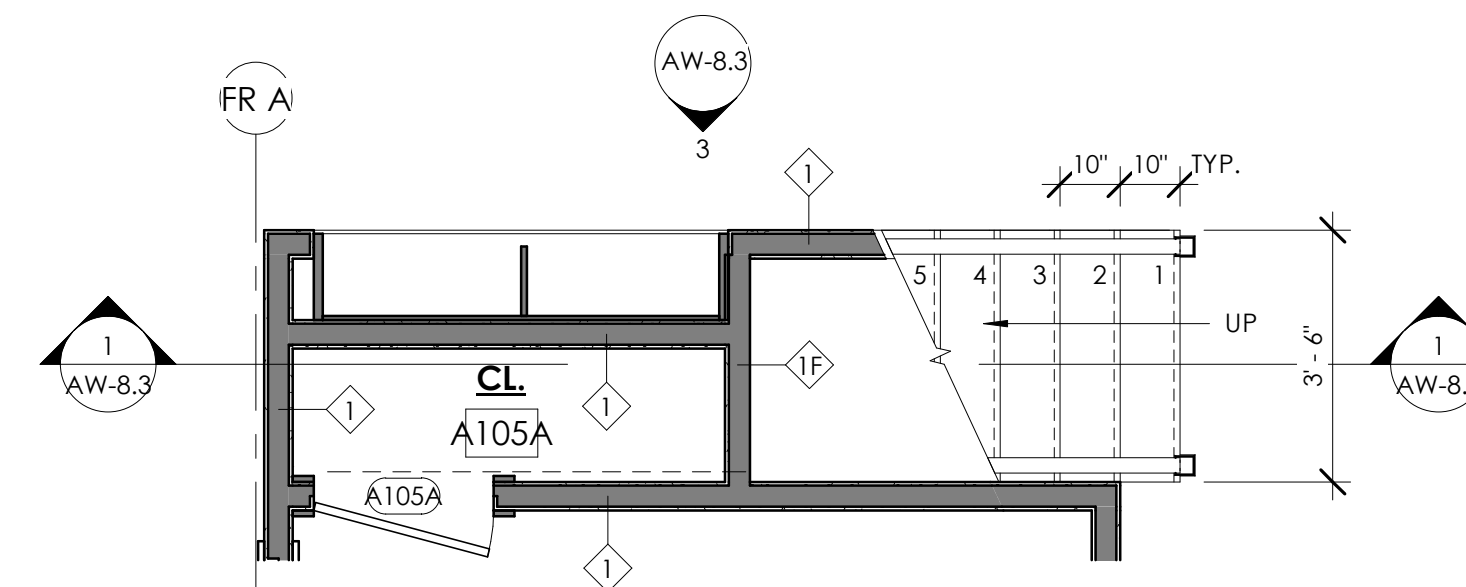
3 NEW FAC. RES. STAIR ELEVATION
3/8" = 1'-0"



1 NEW Faculty Residence Stair Section
3/8" = 1'-0"



7 NEW FAC. RES. 2ND FLR. STAIR PLAN
3/8" = 1'-0"



4 NEW FAC. RES. ENLG. 1ST FLR. STAIR PLAN
3/8" = 1'-0"

CIVIL ENGINEER

Nicholas Fiore, P.E.
Engineering Ventures
nikf@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E.
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER

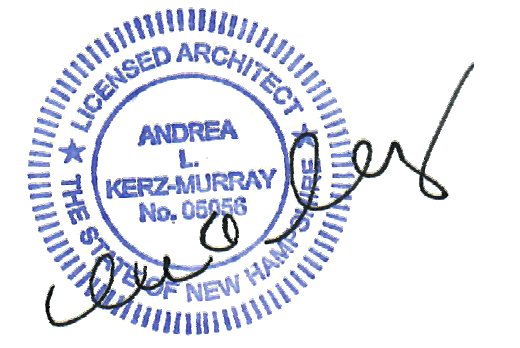
Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvtllc.com
802.885.8091

ELECTRICAL ENGINEER

Claus Barstenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.barstenstein@esvtllc.com
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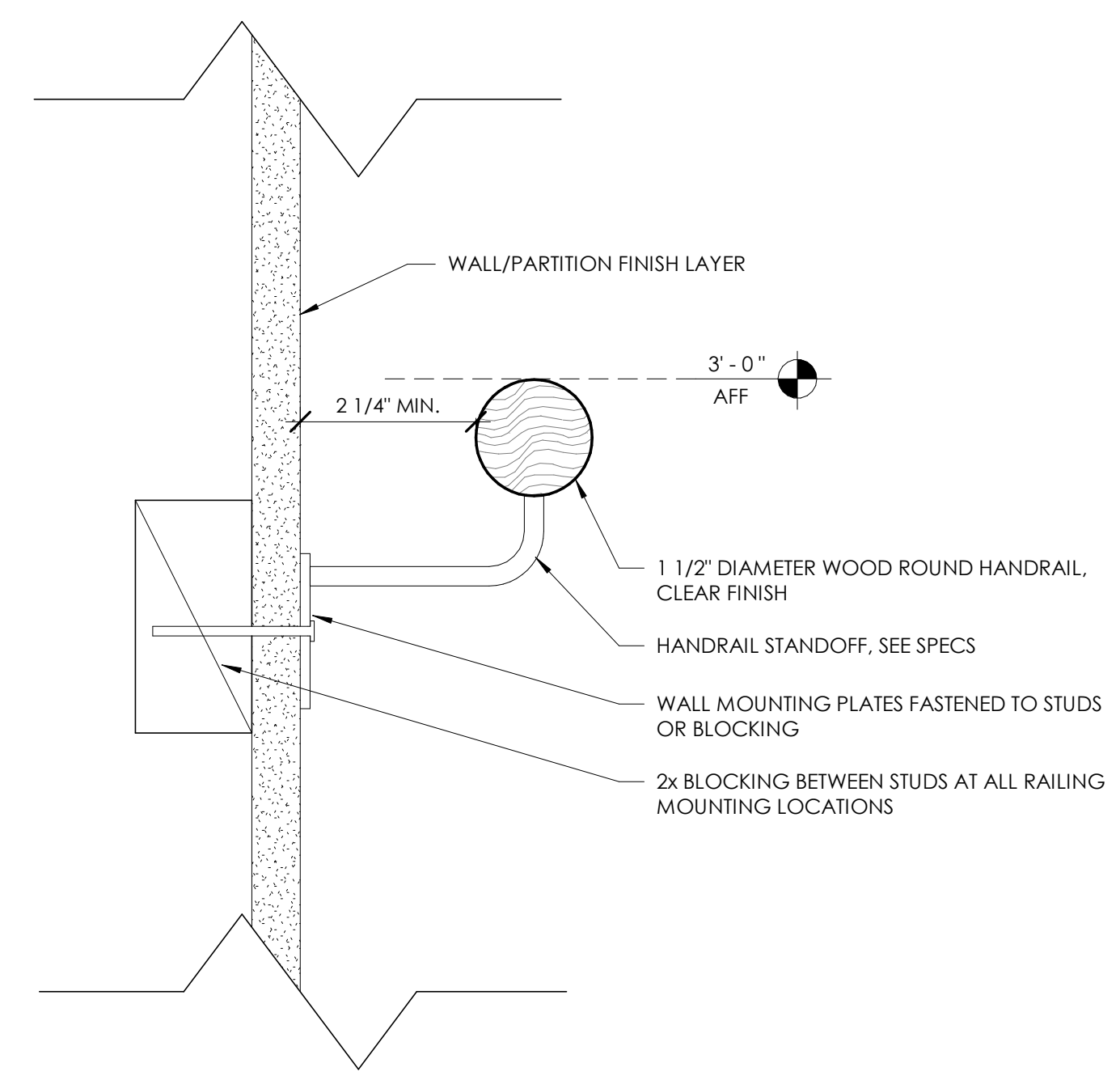
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DORMITORIES**

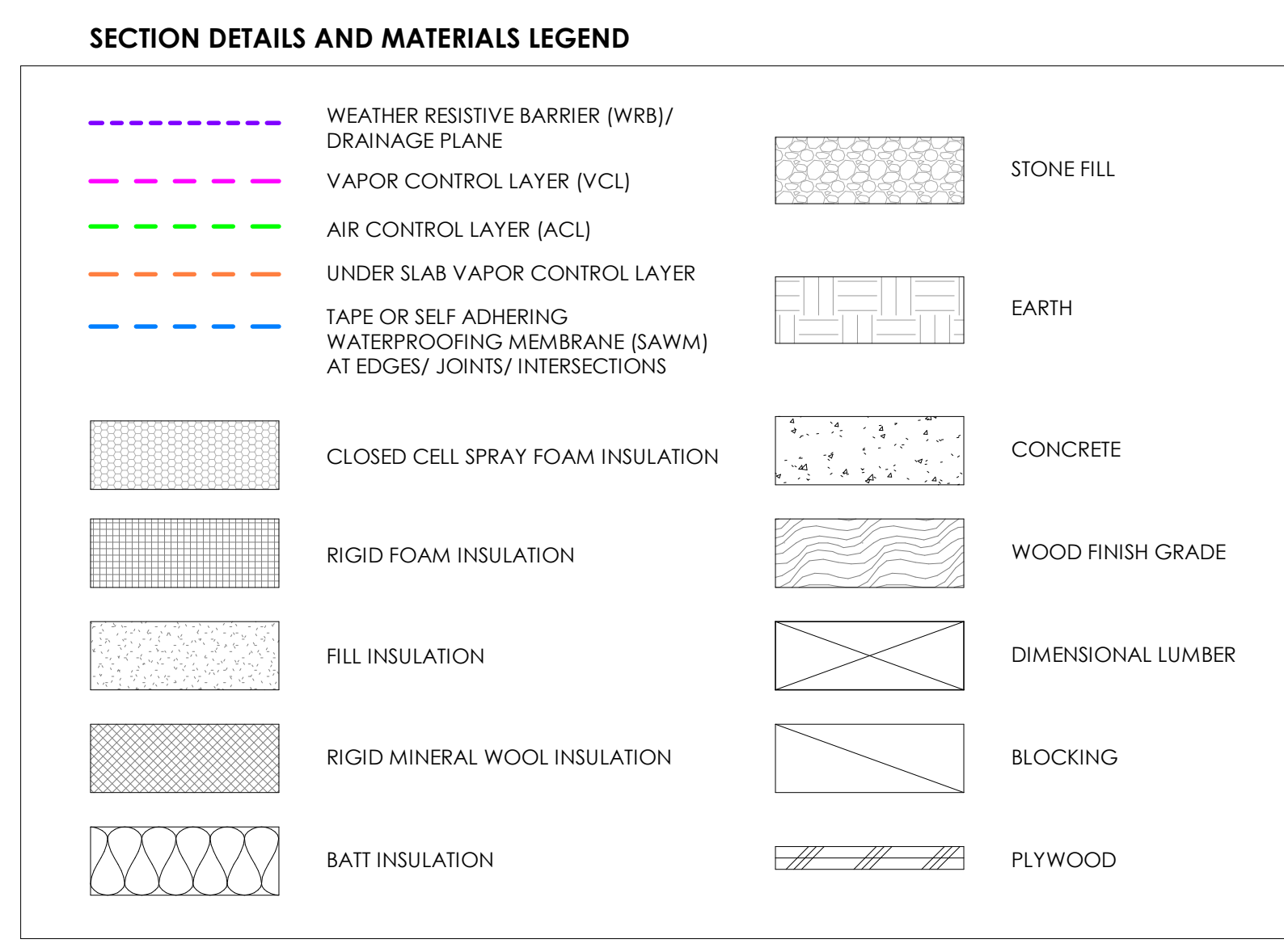
Main Street,
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**WELCH
STAIR DETAILS**

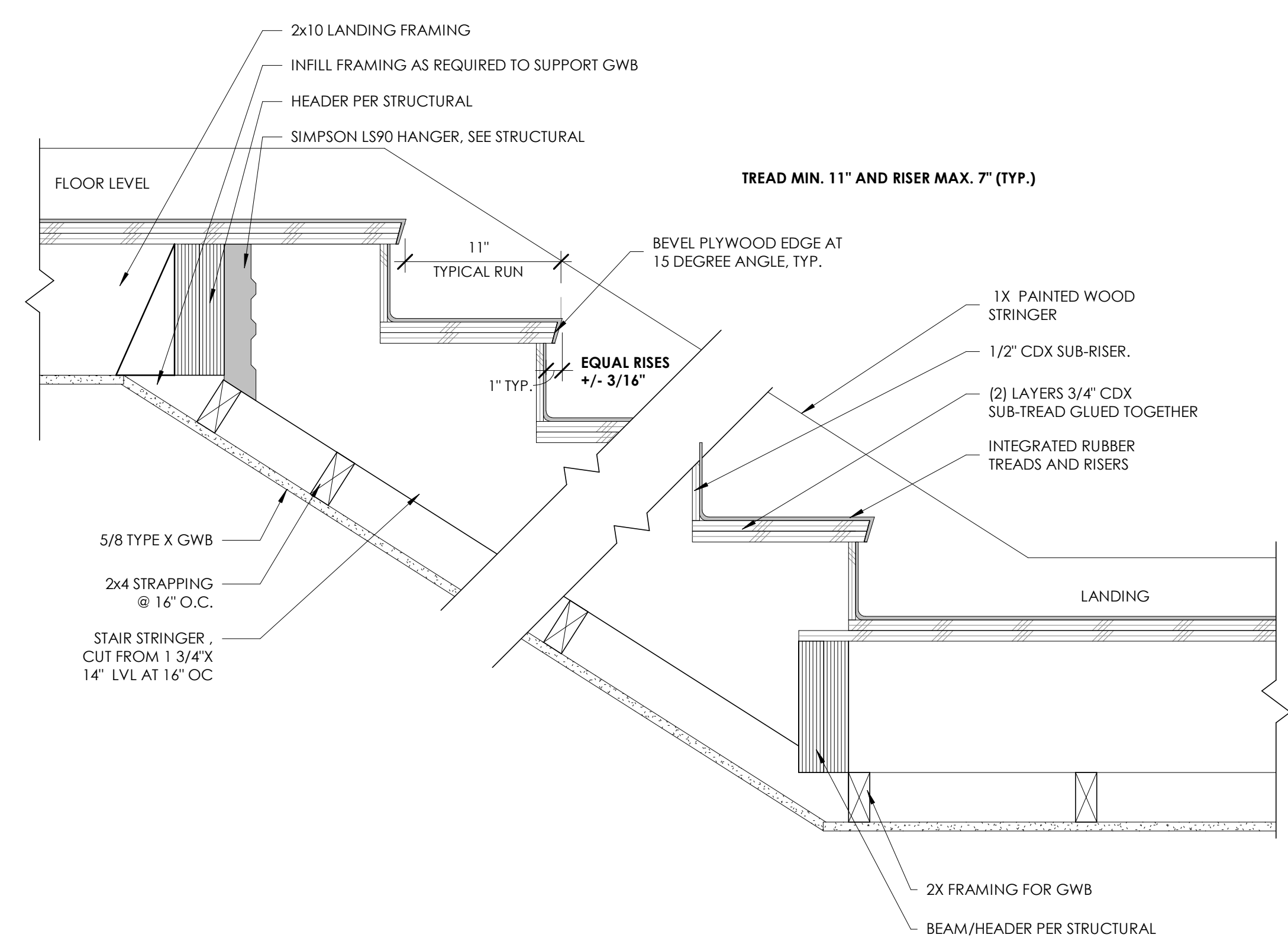
AW-8.4



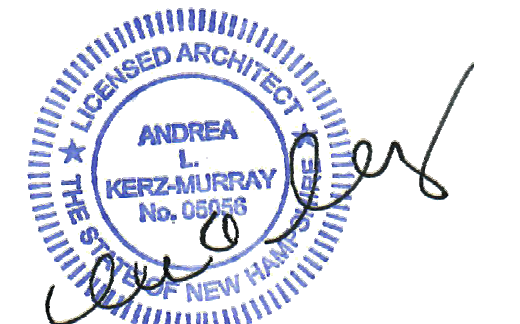
2 Typical Handrail Detail
6\" data-bbox="535 495 615 520"/>



3 Section Details and Materials
1/4\" data-bbox="245 945 345 965"/>



1 Stair Tread Detail
1 1/2\" data-bbox="535 945 615 965"/>



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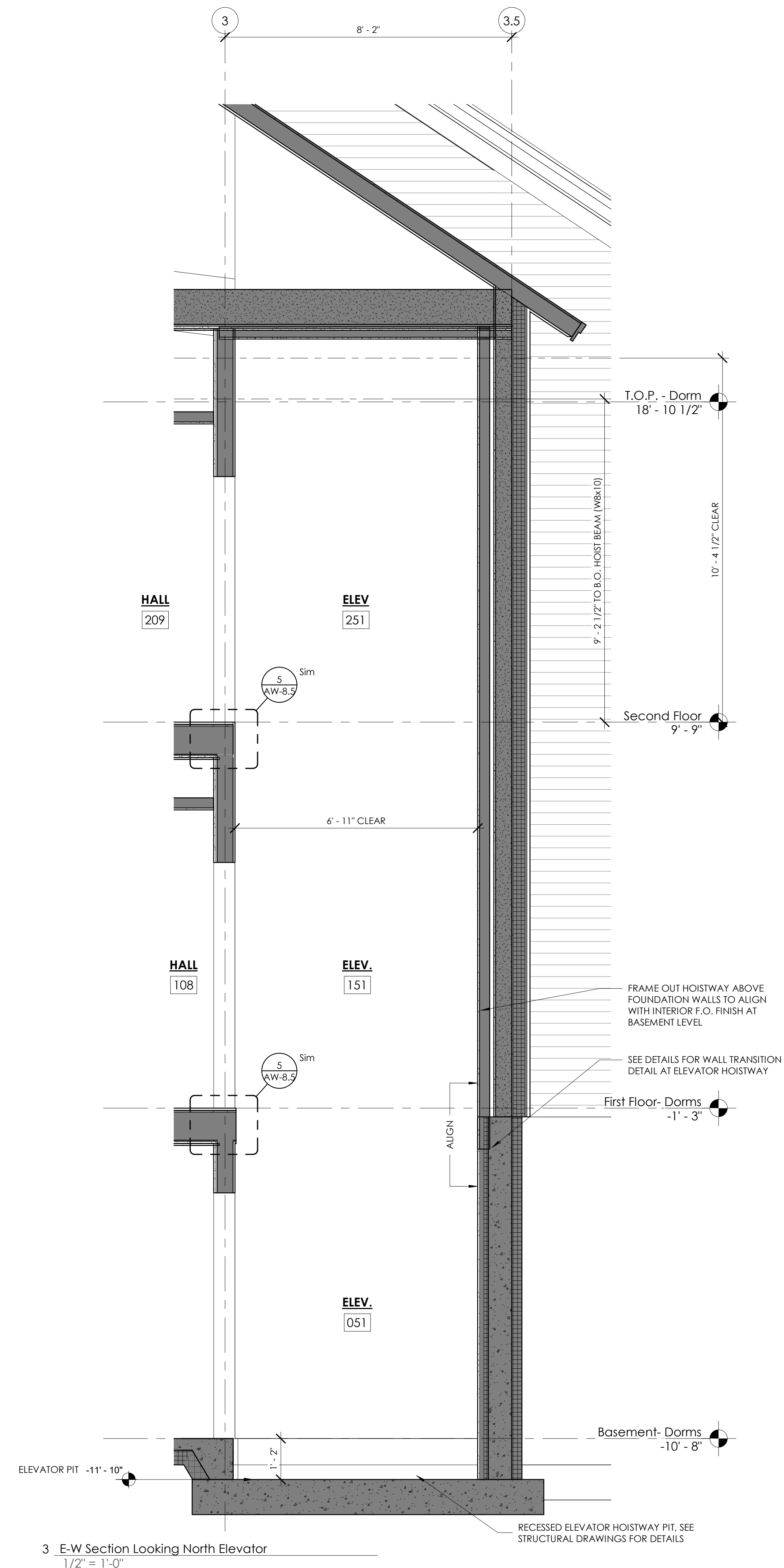
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DORMITORIES

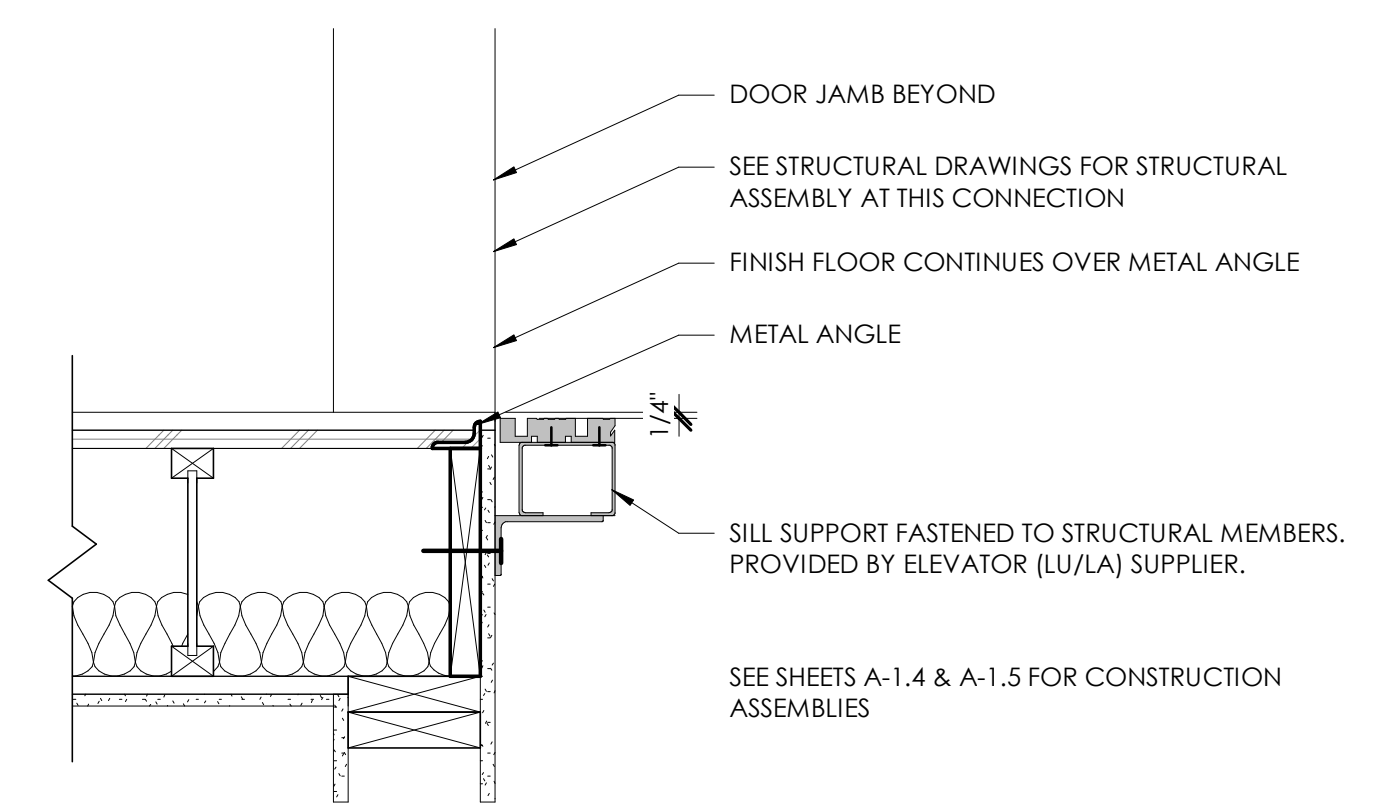
Main Street,
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WELCH
ELEVATOR
DRAWINGS

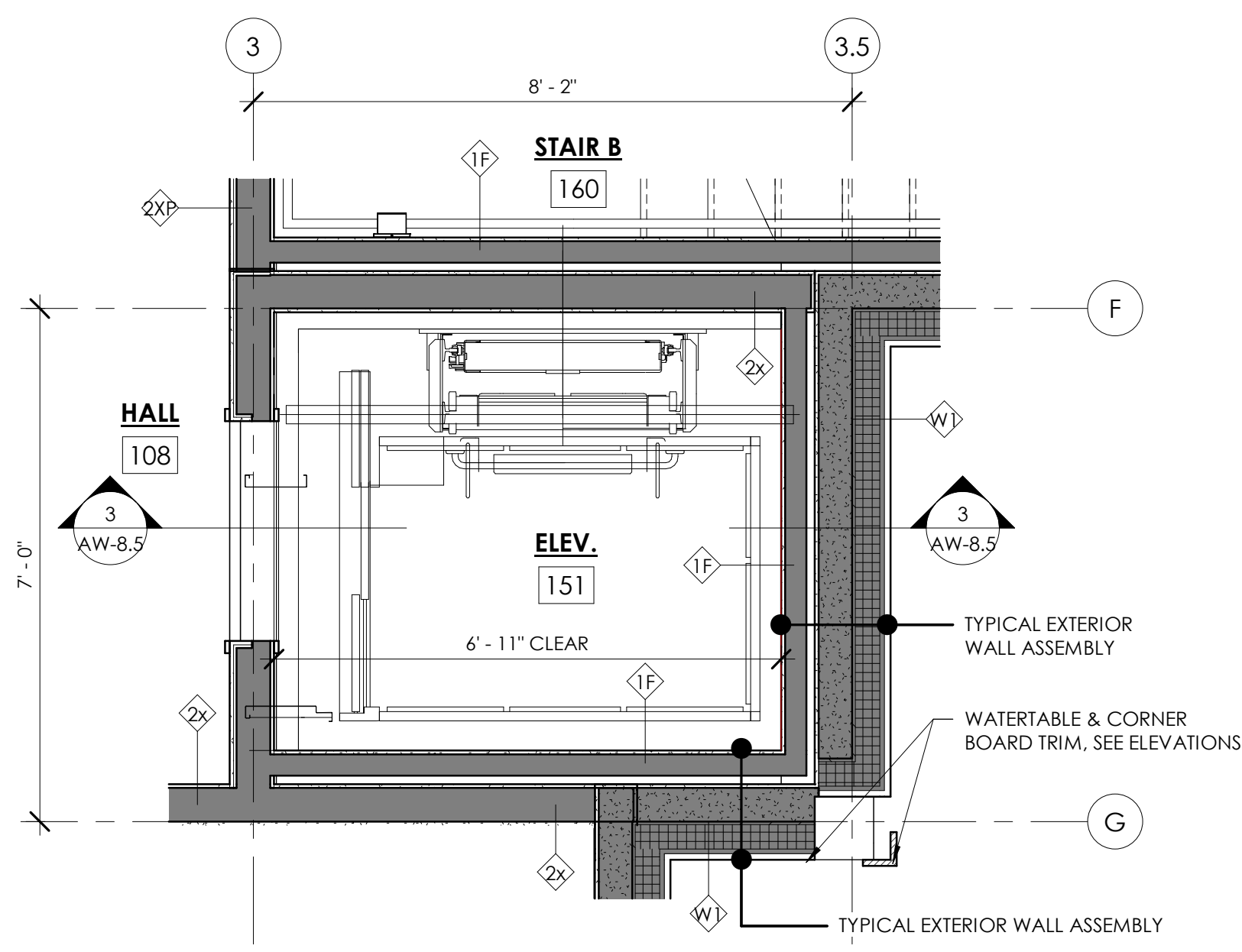
AW-8.5



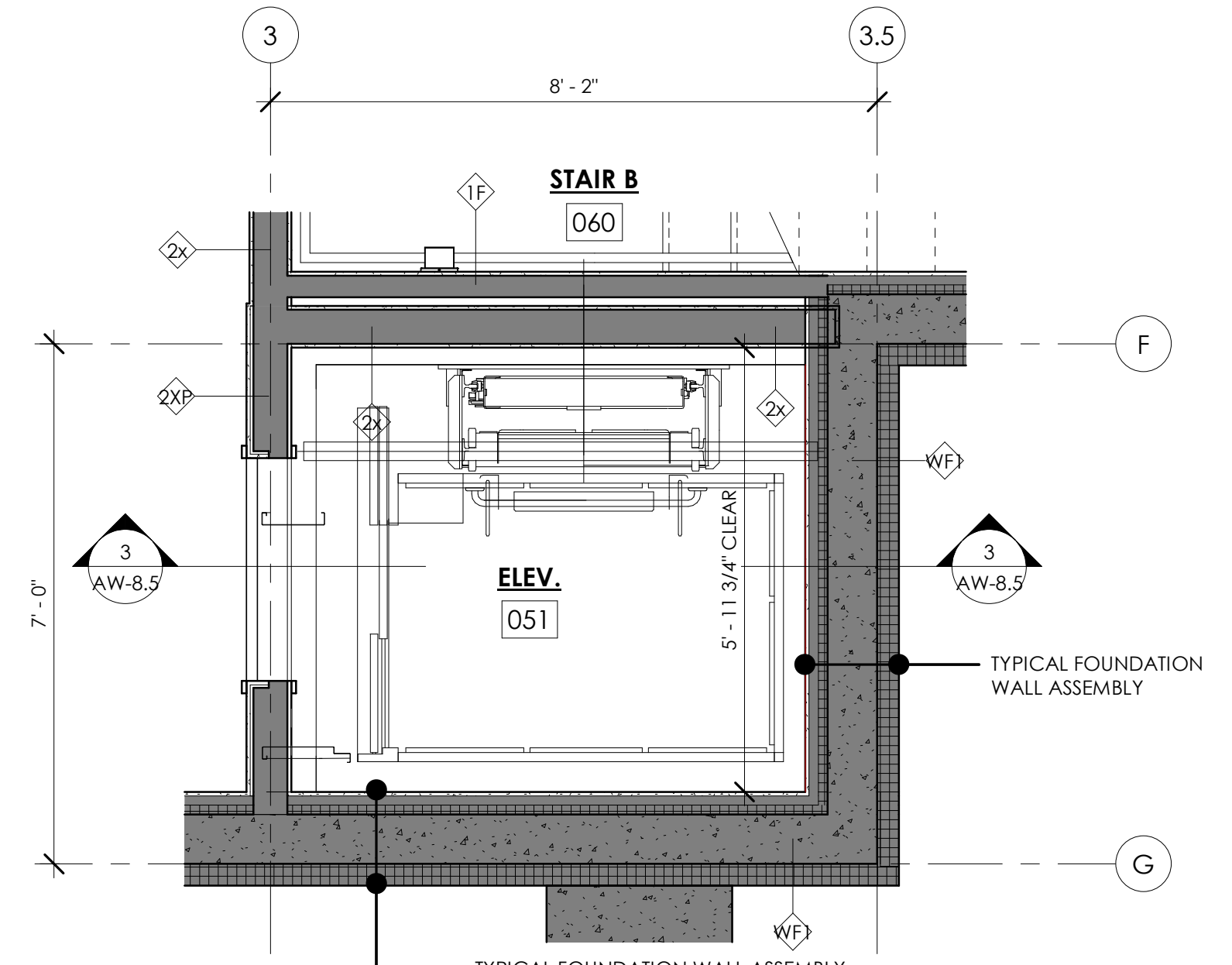
3 E-W Section Looking North Elevator
1/2" = 1'-0"



5 Floor-Hoistway Transition Detail
1 1/2" = 1'-0"



2 Elevator First Floor Enlarged Plan
1/2" = 1'-0"



1 Elevator Basement Enlarged Plan
1/2" = 1'-0"



VERMONT INTEGRATED ARCHITECTURE, PC

ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com

ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
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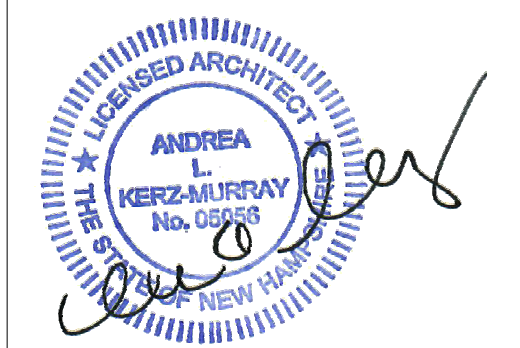
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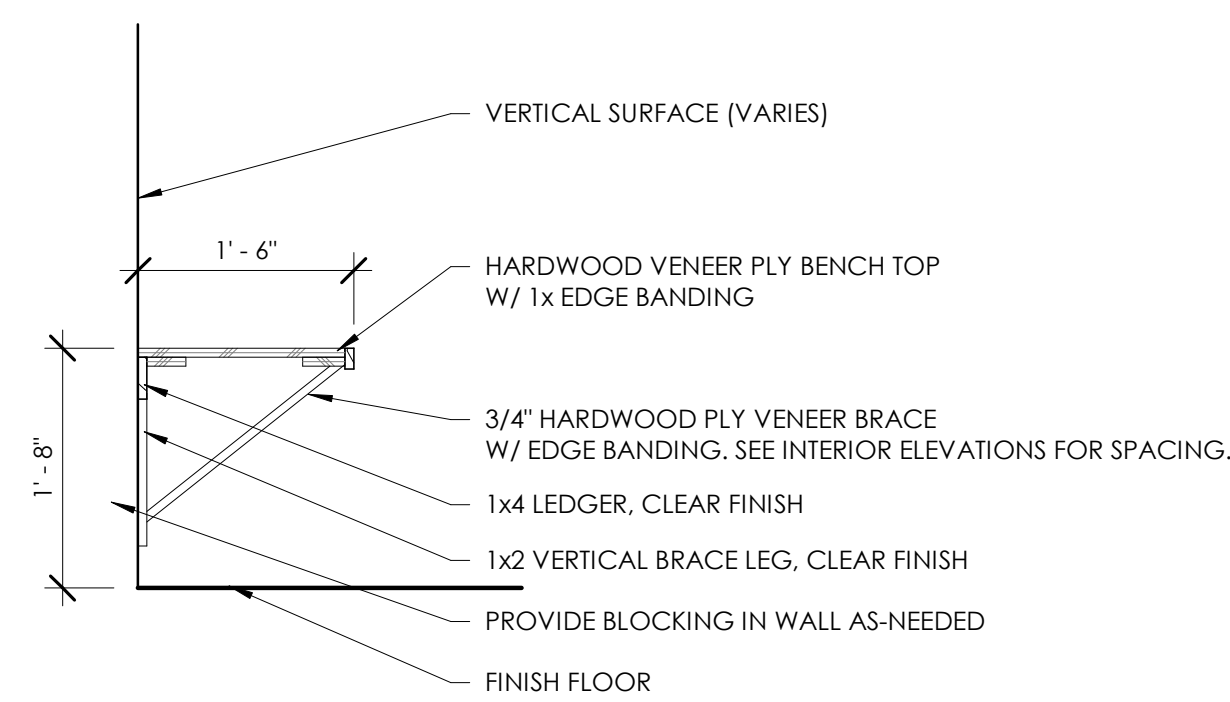
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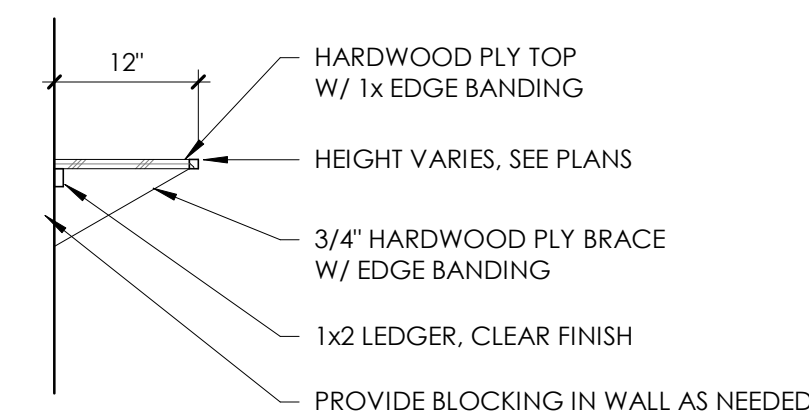
Main Street,
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WELCH
MILLWORK

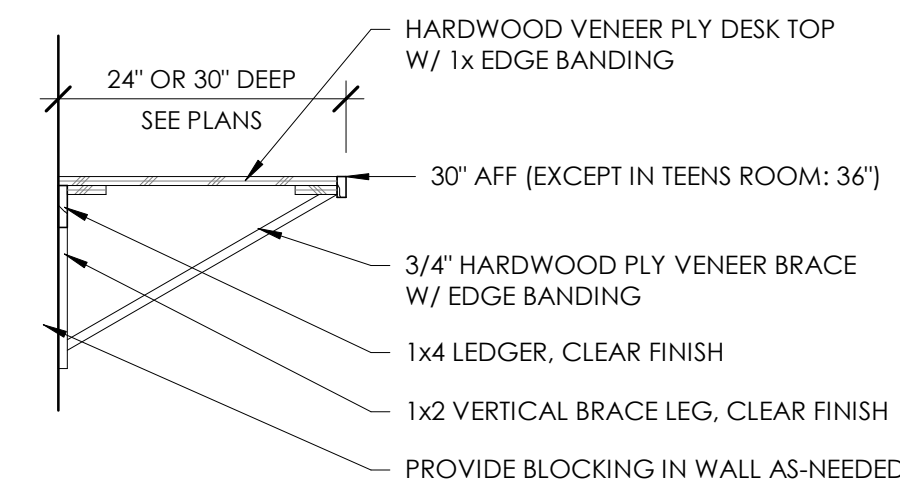
AW-9.1



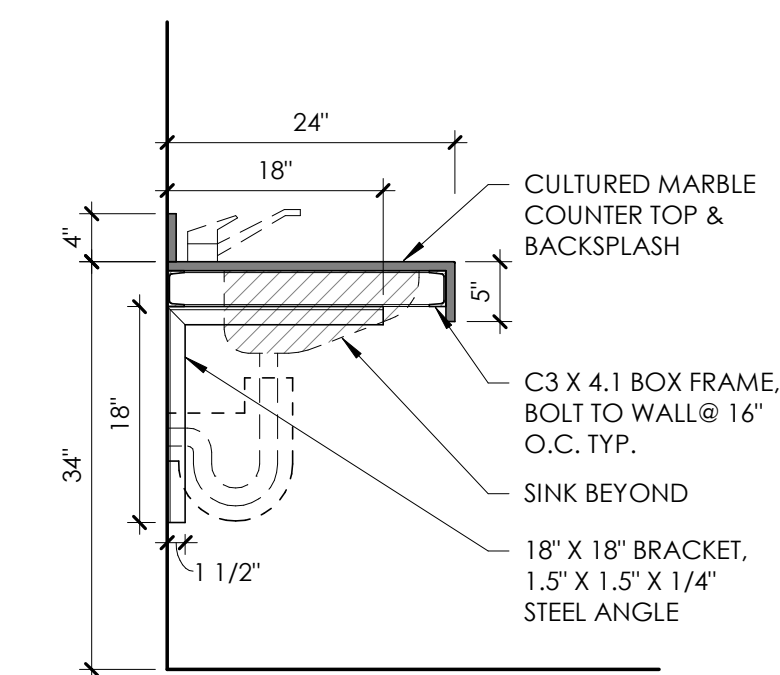
7 Typical Bench Detail
3/4" = 1'-0"



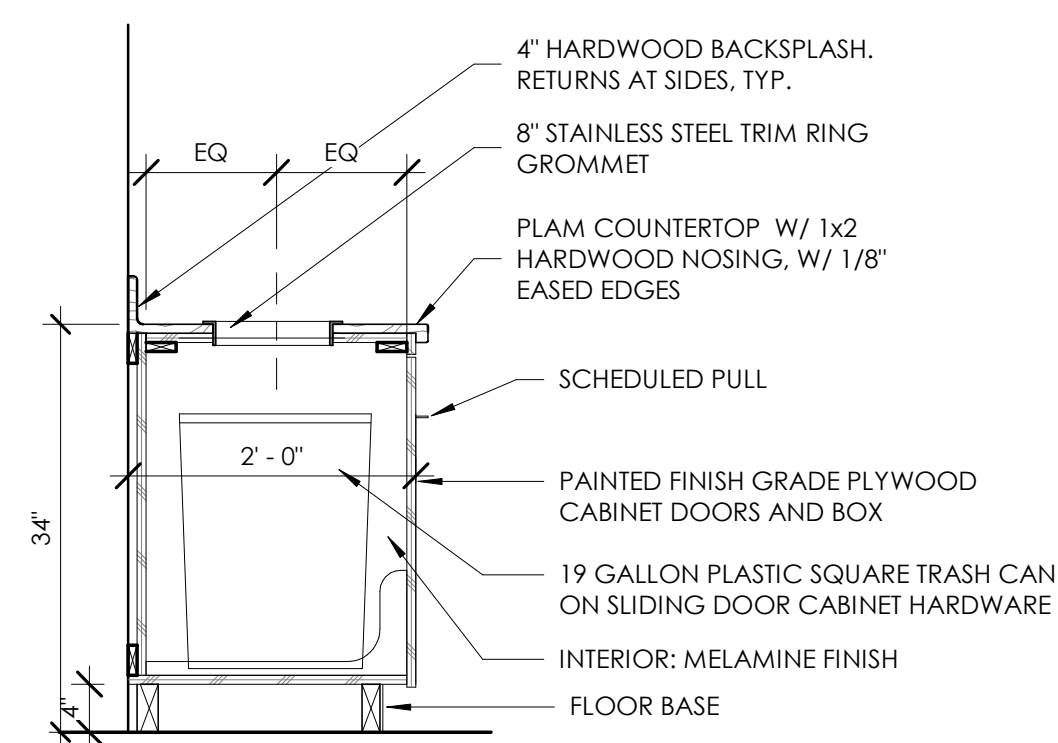
6 Typical Wall-Mounted Shelf Detail
3/4" = 1'-0"



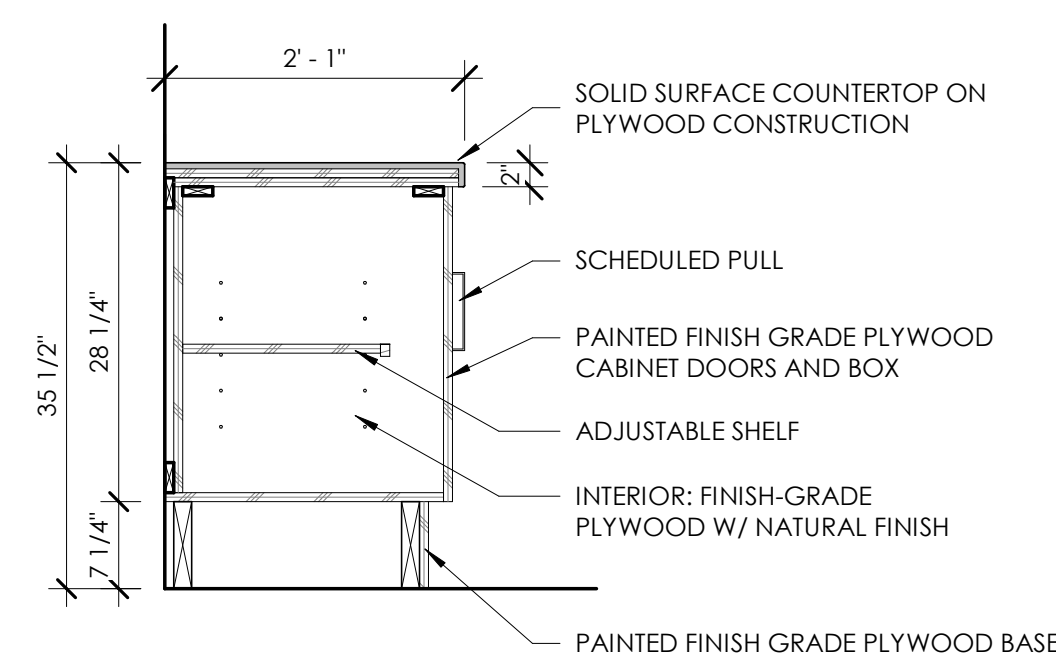
5 Typical Countertop Detail
3/4" = 1'-0"



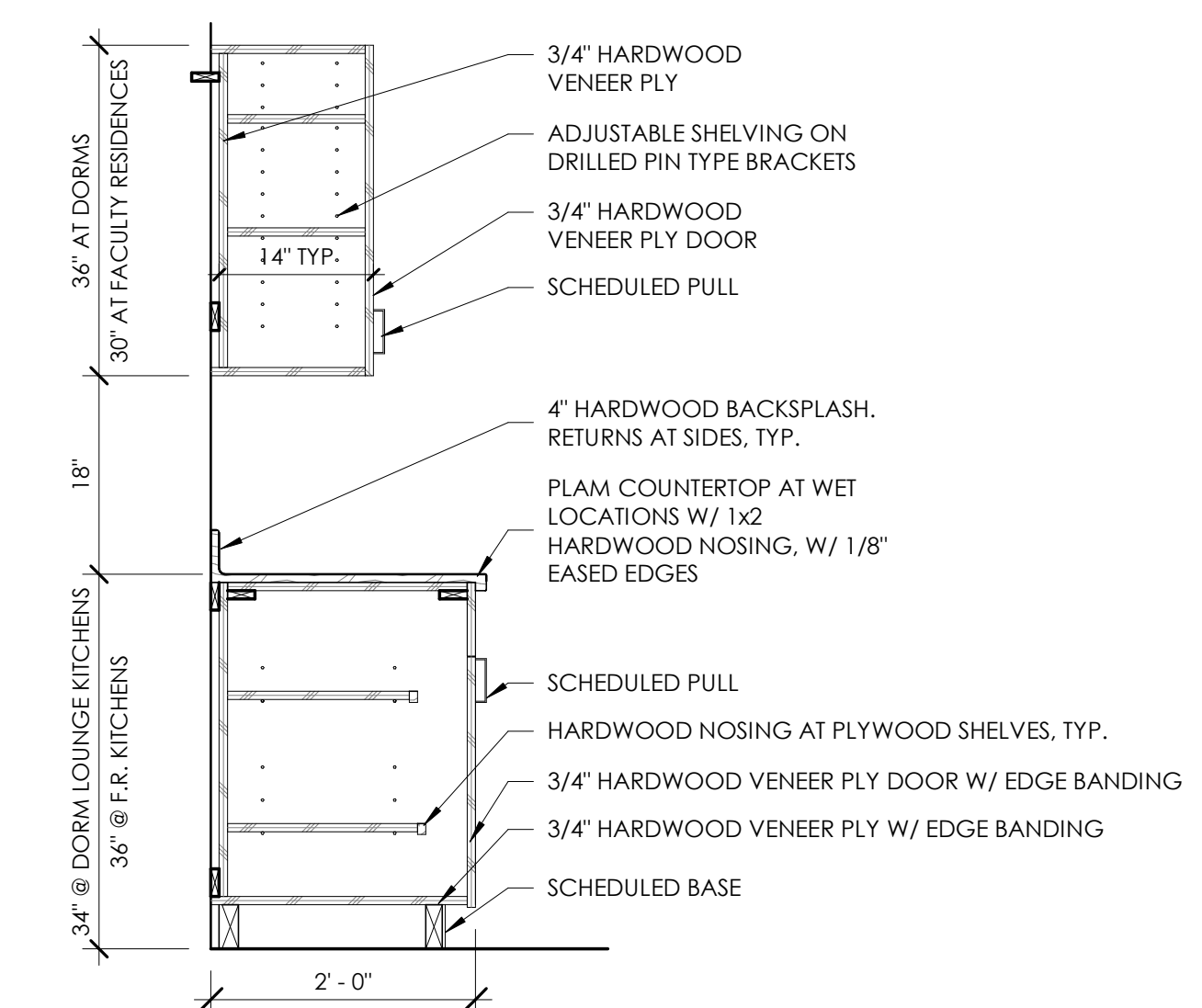
4 Bathroom Countertop Section
3/4" = 1'-0"



3 Typical Trash/Recycle Cabinet
3/4" = 1'-0"



2 Typical Common Room Cabinet
3/4" = 1'-0"



1 Typical Cabinetry Detail
3/4" = 1'-0"

INTERIOR FINISHES SCHEDULE						
NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
001	CRAWL SPACE					
002	ELECTRICAL					
003	MECHANICAL					
004	STUDENT STORAGE					
005	F.R. STORAGE					
006	KUA STORAGE					
007	LAUNDRY	SEALED CONC.	RUBBER	GWB	GWB	
008	HALL					
051	ELEV.					
060	STAIR B	SEALED CONC./RUBBER	RUBBER	GWB	GWB	
101	DORM - DBL	LINOLEUM	RUBBER	GWB	GWB	
102	DORM - DBL	LINOLEUM	RUBBER	GWB	GWB	
103	ACC. SINGLE	LINOLEUM	RUBBER	GWB	GWB	
104	DORM - DBL	LINOLEUM	RUBBER	GWB	GWB	
105	ACC. BATH	PORCELAIN TILE	PT WAINSCOT	GWB	GWB	
106	BATH	PORCELAIN TILE	CT WAINSCOT	GWB	GWB	
107	JC	LINOLEUM	RUBBER	FRP	GWB	
108	HALL	LINOLEUM	RUBBER	GWB	GWB	
110	KITCHEN	PORCELAIN TILE	WOOD	GWB	WOOD SLATS	WOOD SLATS HAVE CLR. FINISH
111	VESTIBULE	PORCELAIN TILE	WOOD	GWB	WOOD SLATS	WOOD SLATS HAVE CLR. FINISH
112	GEAR ROOM	LINOLEUM	RUBBER	GWB	GWB	
113	WC	PORCELAIN TILE	PT WAINSCOT	GWB	GWB	
114	CONNECTOR	LINOLEUM	RUBBER	GWB	GWB	
150	STAIR A	RUBBER	RUBBER	GWB	GWB	
151	ELEV.					
160	STAIR B	RUBBER	RUBBER	GWB	GWB	
201	DORM - DBL	LINOLEUM	RUBBER	GWB	GWB	
202	DORM - DBL	LINOLEUM	RUBBER	GWB	GWB	
203	DORM - DBL	LINOLEUM	RUBBER	GWB	GWB	
204	DORM - DBL	LINOLEUM	RUBBER	GWB	GWB	
205	DORM - DBL	LINOLEUM	RUBBER	GWB	GWB	
206	DORM - SGL	LINOLEUM	RUBBER	GWB	GWB	
207	BATH	PORCELAIN TILE	PT WAINSCOT	GWB	GWB	
208	JC	LINOLEUM	RUBBER	FRP	GWB	
209	HALL	LINOLEUM	RUBBER	GWB	GWB	
211	LOUNGE	CARPET TILE	RUBBER	GWB	GWB	
250	STAIR A	RUBBER	RUBBER	GWB	GWB	
251	ELEV					
260	STAIR B	RUBBER	RUBBER	GWB	GWB	
A101	HALL	LINOLEUM	RUBBER	GWB	GWB	
A101A	CL.	WOOD	WOOD	GWB	GWB	
A101B	CL.	WOOD	WOOD	GWB	GWB	
A102	M. CL.	WOOD	WOOD	GWB	GWB	
A103	FLEX SPACE	WOOD	WOOD	GWB	GWB	
A103A	CL.	WOOD	WOOD	GWB	GWB	
A103B	CL.	WOOD	WOOD	GWB	GWB	
A104	BATH	PORCELAIN TILE	CT WAINSCOT	GWB	GWB	
A105	BEDROOM	WOOD	WOOD	GWB	GWB	
A105A	CL.	WOOD	WOOD	GWB	GWB	
A106	LIVING ROOM	WOOD	WOOD	GWB	GWB	
A107	KITCHEN-DINING	WOOD	WOOD	GWB	GWB	
A108	PANTRY	WOOD	WOOD	GWB	GWB	
A201	BEDROOM	WOOD	WOOD	GWB	GWB	
A202	HALL	WOOD	WOOD	GWB	GWB	
A202A	LIN.	WOOD	WOOD	GWB	GWB	
A203	CL	LINOLEUM	RUBBER	GWB	GWB	
A204	FLEX SPACE	WOOD	WOOD	GWB	GWB	
A204A	W/D	WOOD	WOOD	GWB	GWB	
A205	CL.	WOOD	WOOD	GWB	GWB	
A206	BATH	PORCELAIN TILE	CT WAINSCOT	GWB	GWB	
A207	BEDROOM	WOOD	WOOD	GWB	GWB	
A208	BATH	PORCELAIN TILE	CT WAINSCOT	GWB	GWB	
A209	BEDROOM	WOOD	WOOD	GWB	GWB	
E001	BASEMENT	EXIST. TO REMAIN	EXIST. TO REMAIN	EXIST. TO REMAIN	EXIST. TO REMAIN	
E101	ENTRY	PORCELAIN TILE	WOOD	GWB	GWB	
E102	KITCHEN-DINING	WOOD	WOOD	GWB	GWB	REFINISH WOOD UNDER LINOLEUM OR NEW WOOD
E102A	CL	WOOD	WOOD	GWB	GWB	REFINISH FLOOR
E103	W/D	WOOD	WOOD	GWB	GWB	REFINISH FLOOR
E104	LIVING ROOM	WOOD	WOOD	GWB	GWB	REFINISH FLOOR
E105	BATH	PORCELAIN TILE	TILE	GWB	GWB	
E201	BATH	PORCELAIN TILE	TILE	GWB	GWB	
E202	BEDROOM	WOOD	WOOD	GWB	GWB	REFINISH EXIST. WOOD FLOOR
E203	CL	WOOD	WOOD	GWB	GWB	REFINISH EXIST. WOOD FLOOR
E204	BATH	PORCELAIN TILE	CT	GWB	GWB	
E205	HALL	WOOD	WOOD	GWB	GWB	REFINISH EXIST.
E205A	CL	WOOD	WOOD	GWB	GWB	REFINISH EXIST.
E206	BEDROOM	WOOD	WOOD	GWB	GWB	REFINISH EXIST.
E207	BEDROOM	WOOD	WOOD	GWB	GWB	REFINISH EXIST.
E208	FACULTY STUDY	NO WORK	NO WORK	GWB	GWB	GWB OVER NEW ROOF INSULATION

FINISH SCHEDULE NOTES:

1. ASSUME ALL GWB TO BE PAINTED.
2. ALL WOOD BASE @ FACULTY RESIDENCES TO BE PAINTED.
3. ALL WOOD BASE IN LOUNGE SPACES TO BE CLEAR FINISH WOOD.
4. SEE ARCHITECTURAL SPECIFICATIONS FOR ADDITIONAL PRODUCT/MATERIAL INFORMATION.



ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com

ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
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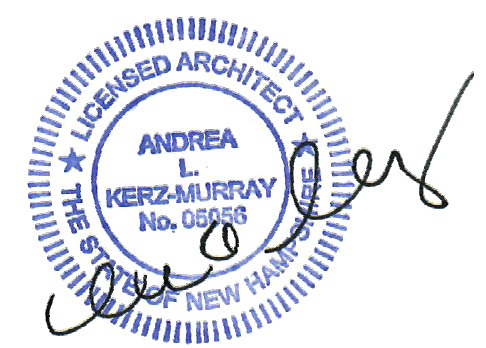
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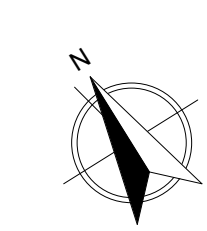
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Main Street,
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WELCH
INTERIOR FINISHES
SCHEDULE

AW-10.1



FLOOR PLAN LEGEND

[Solid Grey]	EXISTING WALL
[Dotted Grey]	EXISTING CONCRETE WALL
[Diagonal Lines]	EXISTING MASONRY WALL
[Dark Grey]	NEW WALL/NEW WALL INFILL



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ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
802.989.7249

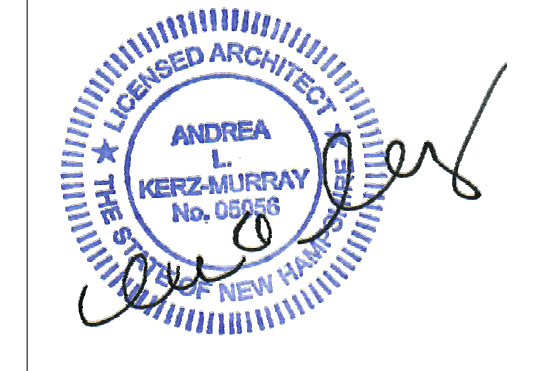
CIVIL ENGINEER
Nicholas Fiore, P.E.
Engineering Ventures
nikf@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER
Bob Neeld, P.E.
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER
Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvtllc.com
802.885.8091

ELECTRICAL ENGINEER
Claus Bartenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.bartenstein@esvtllc.com
802.885.8091

CONSTRUCTION MANAGER
Calvin Russell, Senior Project Manager
ReArch Company, Inc.
calvin@rearchcompany.com
802.863.8727



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Drawn: JG
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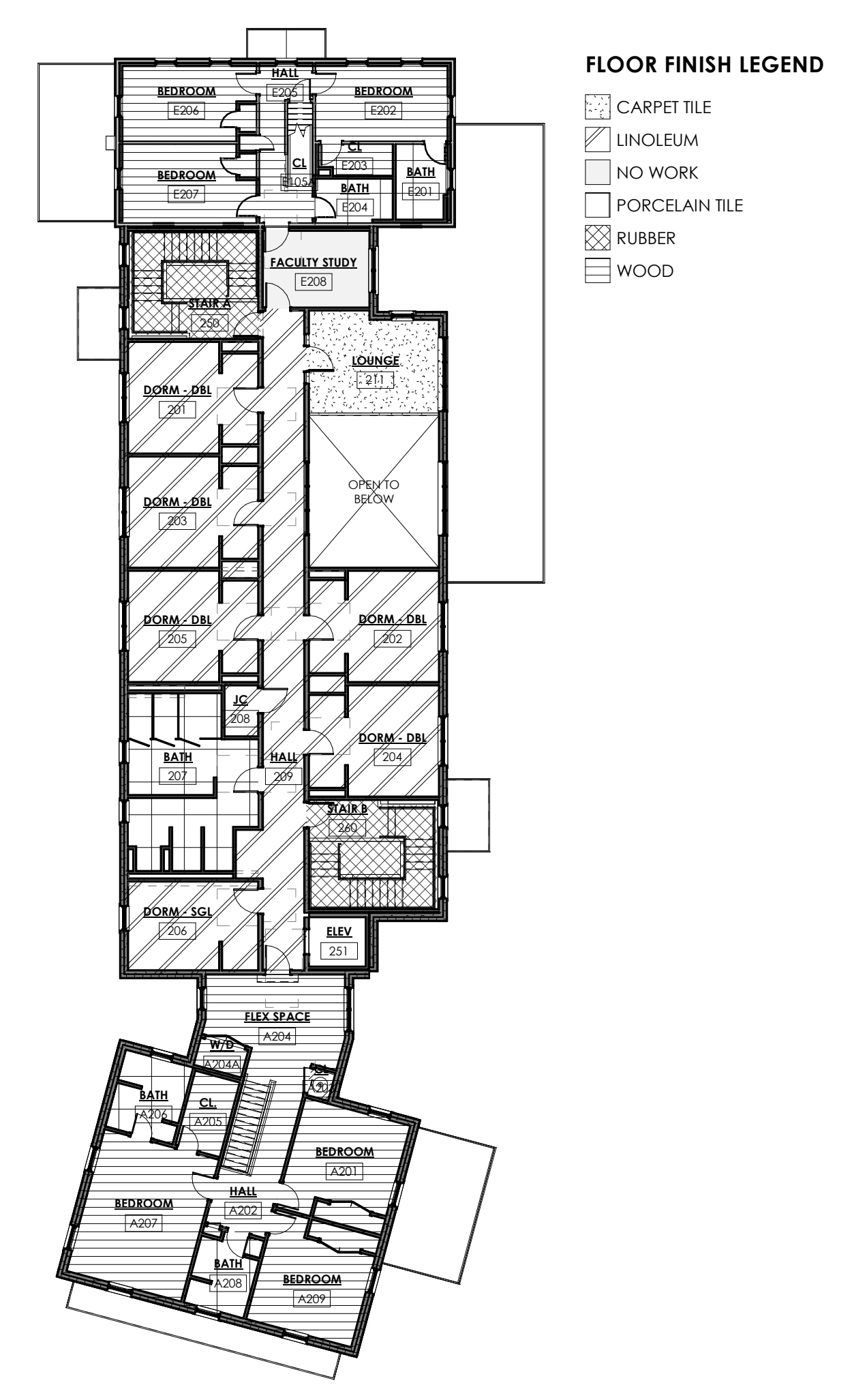
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KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

WELCH
FLOOR FINISH
PLANS

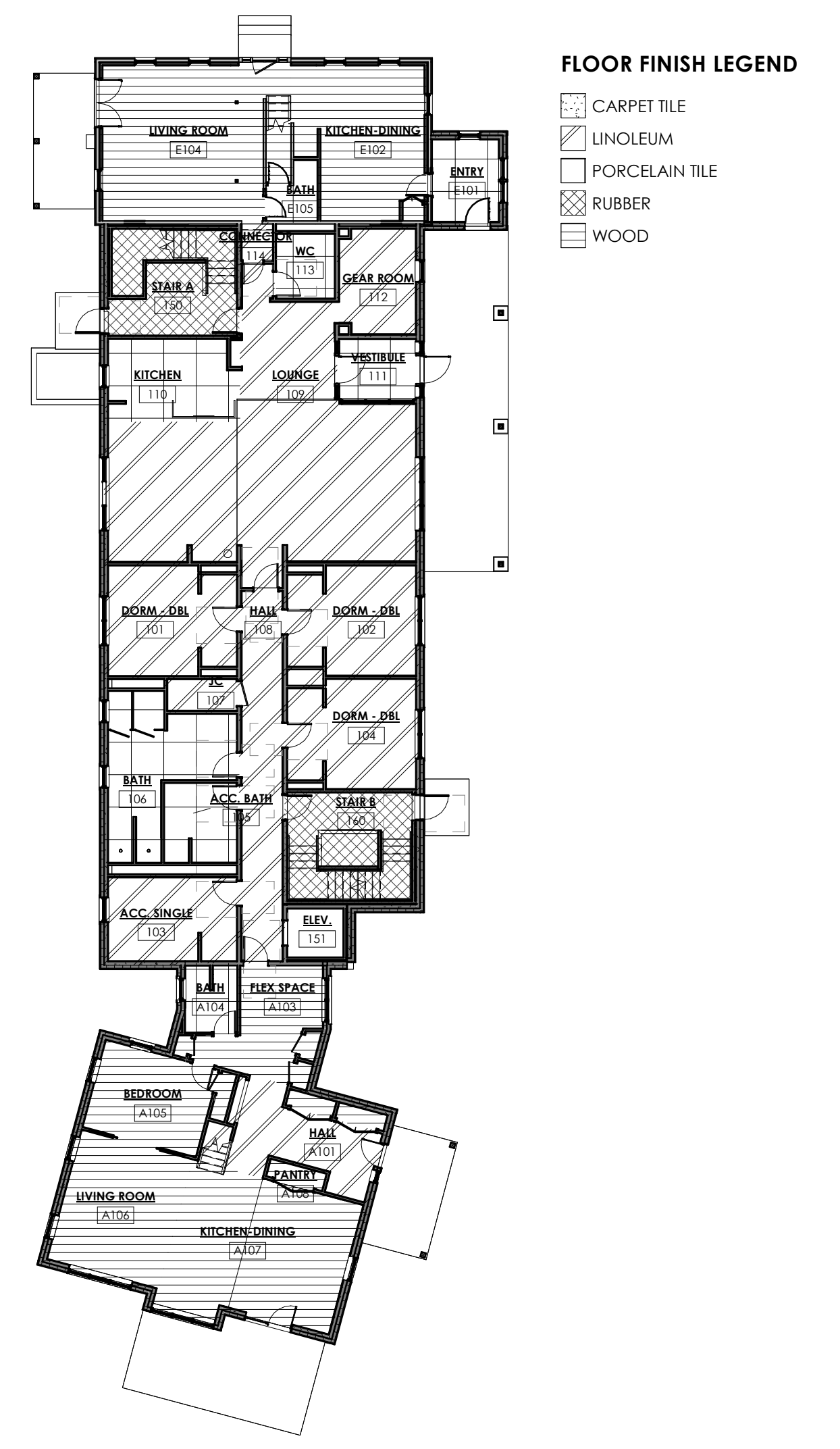
AW-10.1a



FLOOR FINISH LEGEND

[Dotted Grey]	CARPET TILE
[Diagonal Lines]	LINOLEUM
[White]	NO WORK
[Horizontal Lines]	PORCELAIN TILE
[Cross-hatch]	RUBBER
[Vertical Lines]	WOOD

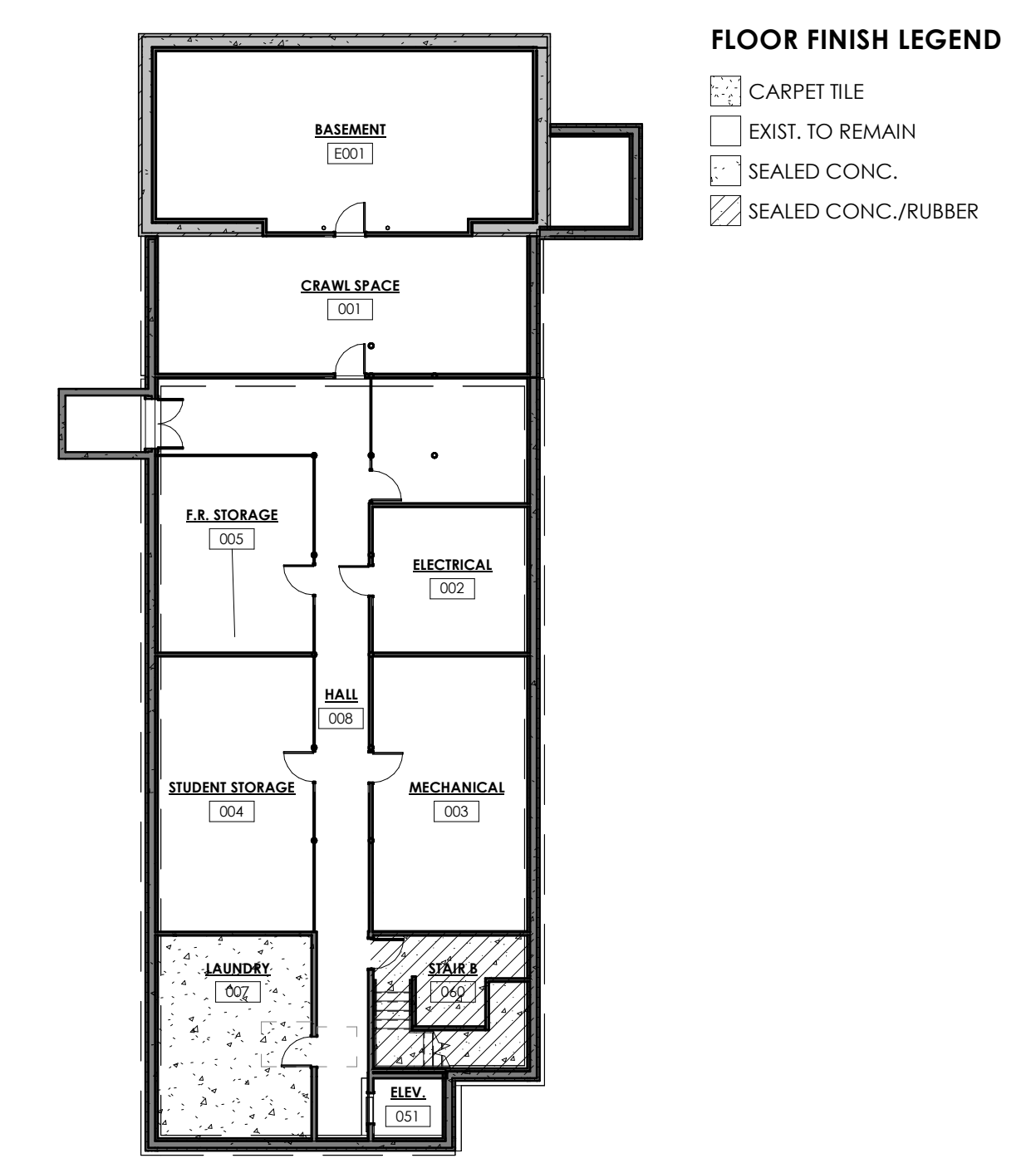
3 Second Floor Finish Plan
1/16" = 1'-0"



FLOOR FINISH LEGEND

[Dotted Grey]	CARPET TILE
[Diagonal Lines]	LINOLEUM
[White]	PORCELAIN TILE
[Cross-hatch]	RUBBER
[Vertical Lines]	WOOD

2 First Floor Finish Plan
1/16" = 1'-0"



FLOOR FINISH LEGEND

[Dotted Grey]	CARPET TILE
[White]	EXIST. TO REMAIN
[Diagonal Lines]	SEALED CONC.
[Cross-hatch]	SEALED CONC./RUBBER

1 Basement Finish Plan
1/16" = 1'-0"

CIVIL ENGINEER

Nicholas Fiore, P.E.
Engineering Ventures
nikf@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E.
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER

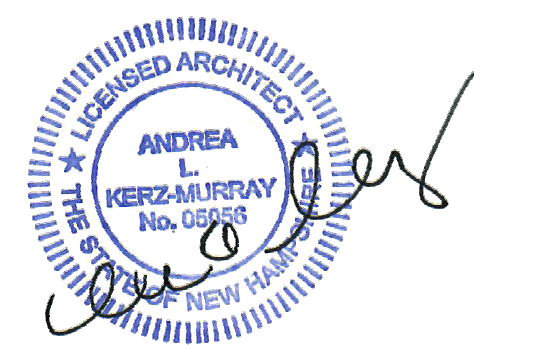
Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvtllc.com
802.885.8091

ELECTRICAL ENGINEER

Claus Barenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.barenstein@esvtllc.com
802.885.8091

CONSTRUCTION MANAGER

Calvin Russell, Senior Project Manager
ReArch Company, Inc.
calvin@rearchcompany.com
802.863.8727



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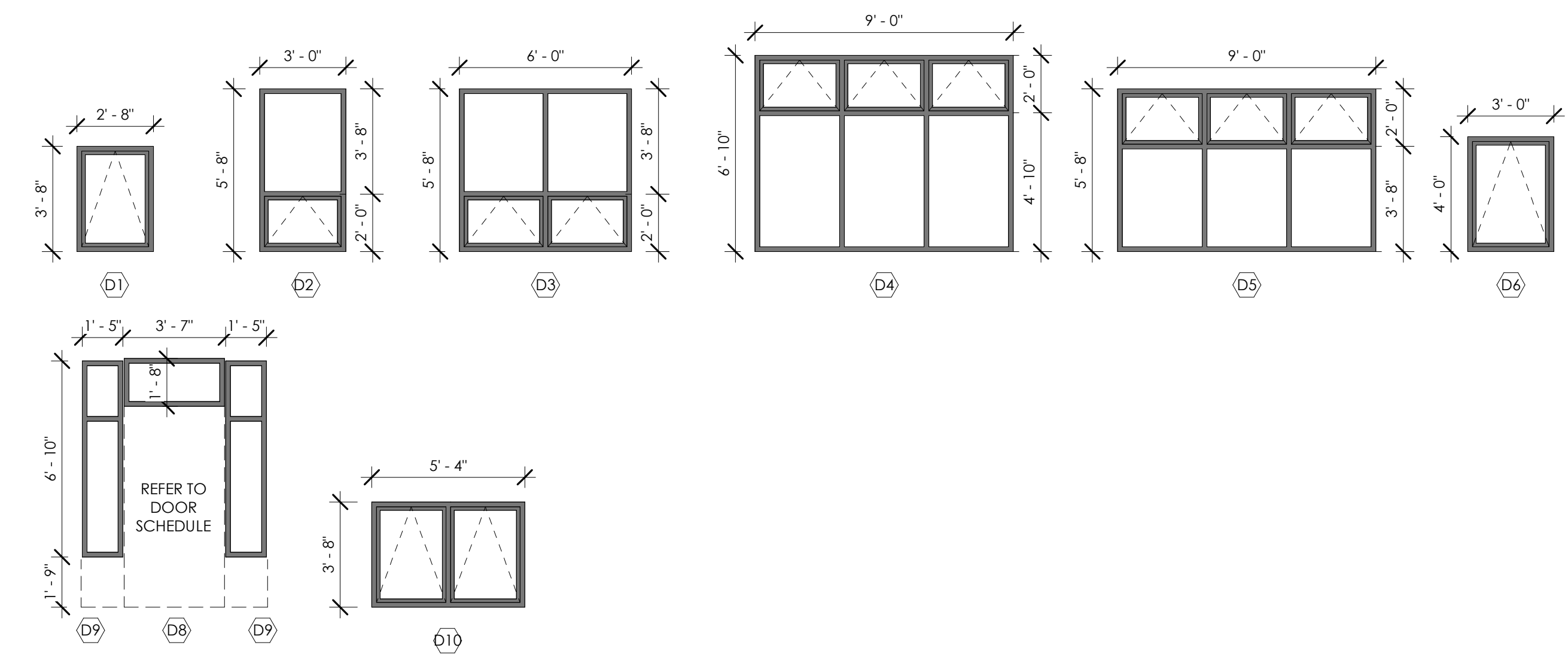
**KUA
KILTON/WELCH
DORMITORIES**

Main Street,
Meriden, NH 03770

**WELCH
WINDOW
SCHEDULE**

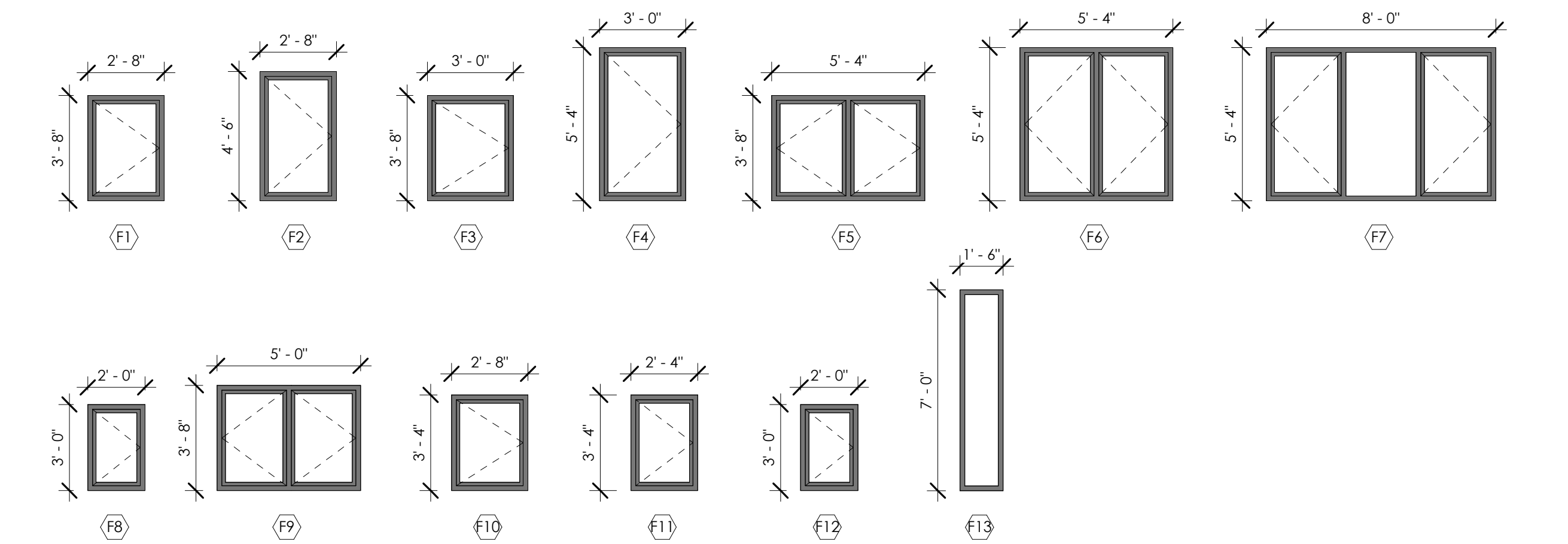
AW-10.2

WINDOW SCHEDULE- DORMS						
TYPE	MODEL/DESCRIPTION	WIDTH	HEIGHT	SILL HEIGHT	COMMENTS	
D1	FIXED / AWNING UNIT	2'-8"	3'-8"	<varies>	REFER TO ELEVATIONS FOR OPERABLE UNITS	
D2	FIXED / AWNING UNIT	3'-0"	5'-8"	2'-6"	REFER TO ELEVATIONS FOR OPERABLE UNITS	
D3	FIXED / AWNING UNIT	6'-0"	5'-8"	<varies>	REFER TO ELEVATIONS FOR OPERABLE UNITS	
D4	FIXED / AWNING UNIT	9'-0"	6'-10"	2'-0"	REFER TO ELEVATIONS FOR OPERABLE UNITS	
D5	FIXED / AWNING UNIT	9'-0"	5'-8"	<varies>	REFER TO ELEVATIONS FOR OPERABLE UNITS	
D8	FIXED TRANSOM	3'-6"	1'-8"	<varies>	ENTRY DOOR TRANSOM - TRIPLE GL. AT EXT. DOUBLE GL. AT INT.	
D9	FIXED SIDELIGHT	1'-5"	6'-10"	<varies>	ENTRY DOOR SIDELIGHT - TRIPLE GL. AT EXT. DOUBLE GL. AT INT.	
D10	FIXED / AWNING UNIT	5'-4"	3'-8"	4'-2"	REFER TO ELEVATIONS FOR OPERABLE UNITS	



ENTRY VESTIBULE GLAZING
Window Elevation Types-
Dorms
1/4" = 1'-0"

WINDOW SCHEDULE- FACULTY RESIDENCE						
TYPE	MODEL/DESCRIPTION	WIDTH	HEIGHT	SILL HEIGHT	COMMENTS	
F1	<varies>	2'-8"	3'-8"	<varies>		
F3	CASEMENT	3'-0"	3'-8"	3'-4"		
F4	CASEMENT	3'-0"	5'-4"	1'-8"		
F5	CASEMENT	5'-4"	3'-8"	<varies>		
F7	CASEMENT	8'-0"	5'-4"	<varies>		
F13	FIXED SIDELIGHT	1'-6"	7'-0"	0"	DOOR A101 SIDELIGHT	

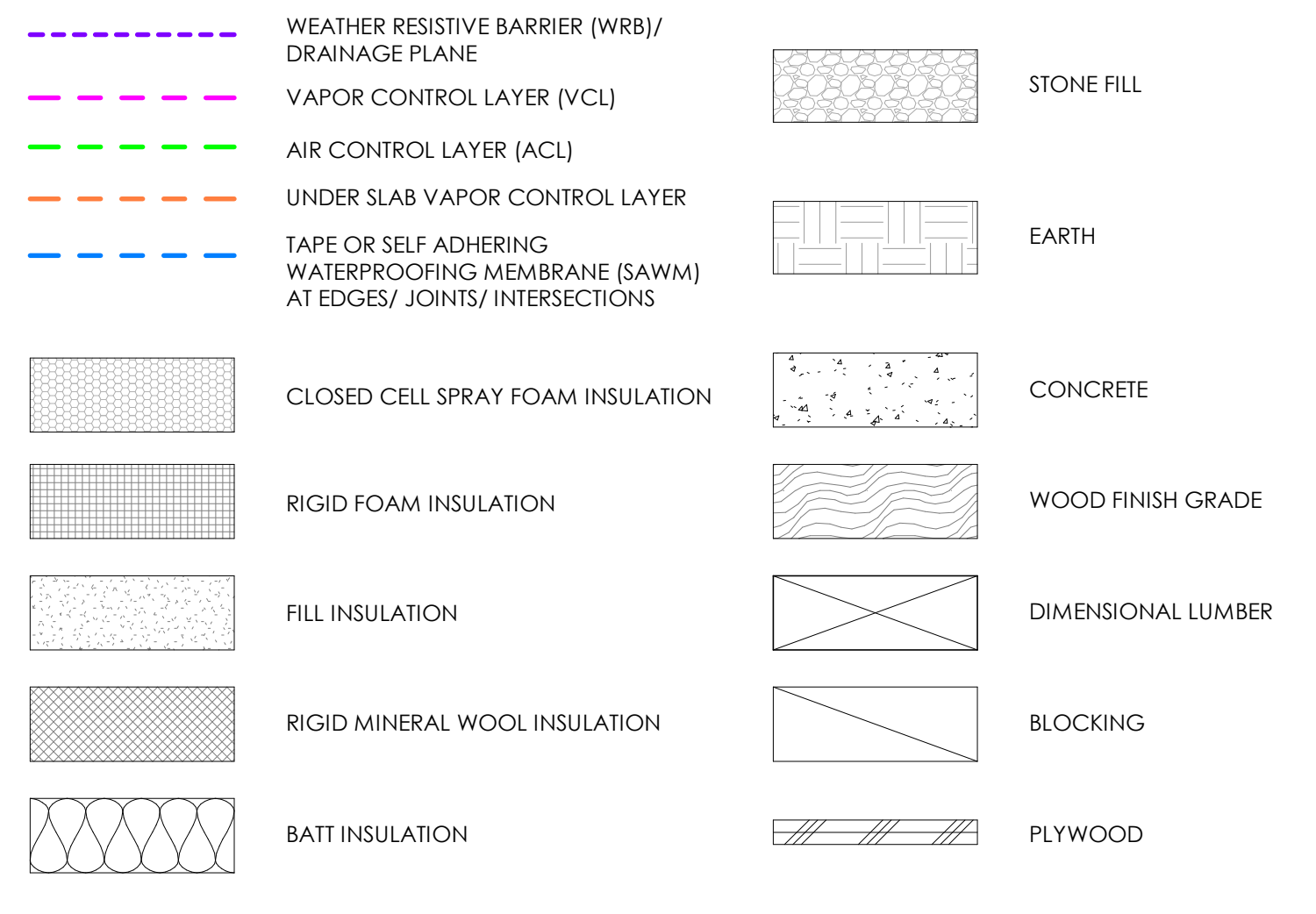


Window Elevation Types- F.R.
1/4" = 1'-0"

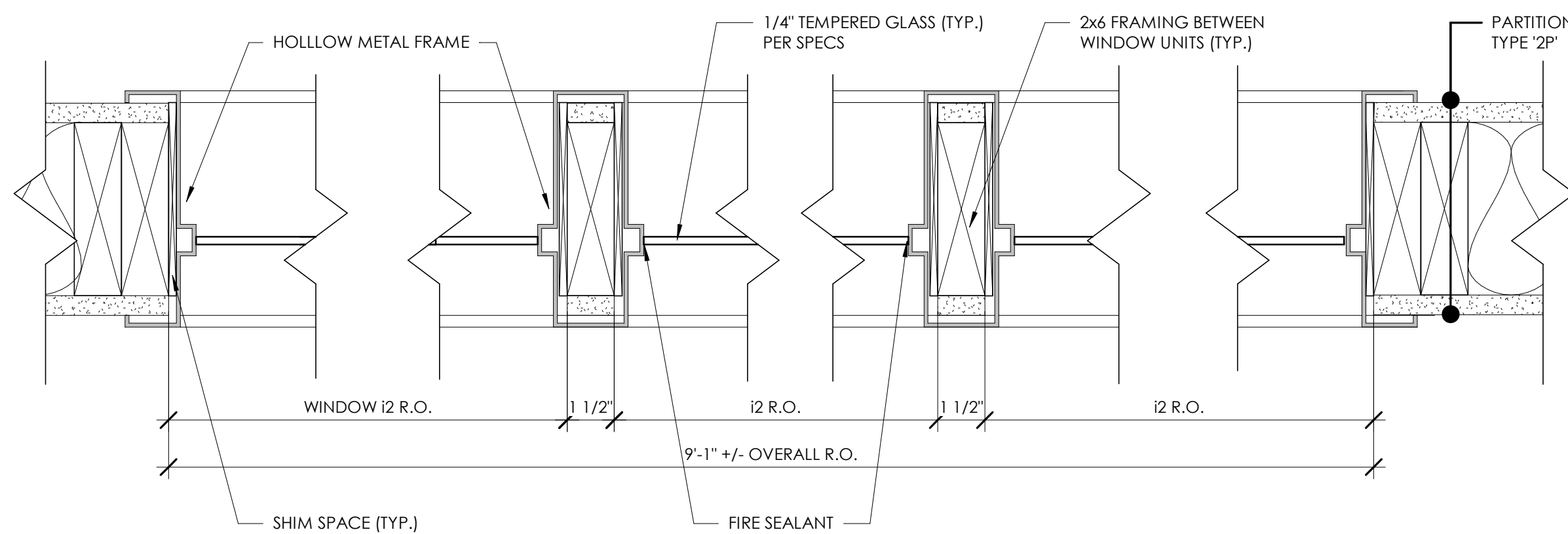
WINDOW SCHEDULE- EXISTING BUILDING						
TYPE	MODEL/DESCRIPTION	WIDTH	HEIGHT	SILL HEIGHT	COMMENTS	
R3	FIXED / AWNING UNIT	2'-7"	4'-10 3/4"	<varies>	V.J.F.	
R4	FIXED / AWNING UNIT	2'-7"	3'-11 3/4"	2'-4"	V.J.F.	
R5	FIXED / AWNING UNIT	1'-6"	3'-0"	1"	V.J.F.	
R6	FIXED / AWNING UNIT	2'-0"	3'-0"	1'-11"	V.J.F.	

WINDOW SCHEDULE- INTERIOR						
TYPE	MODEL/DESCRIPTION	WIDTH	HEIGHT	SILL HEIGHT	COMMENTS	
I2	FIXED	9'-0"	3'-8"	3'-6"		

SECTION DETAILS AND MATERIALS LEGEND

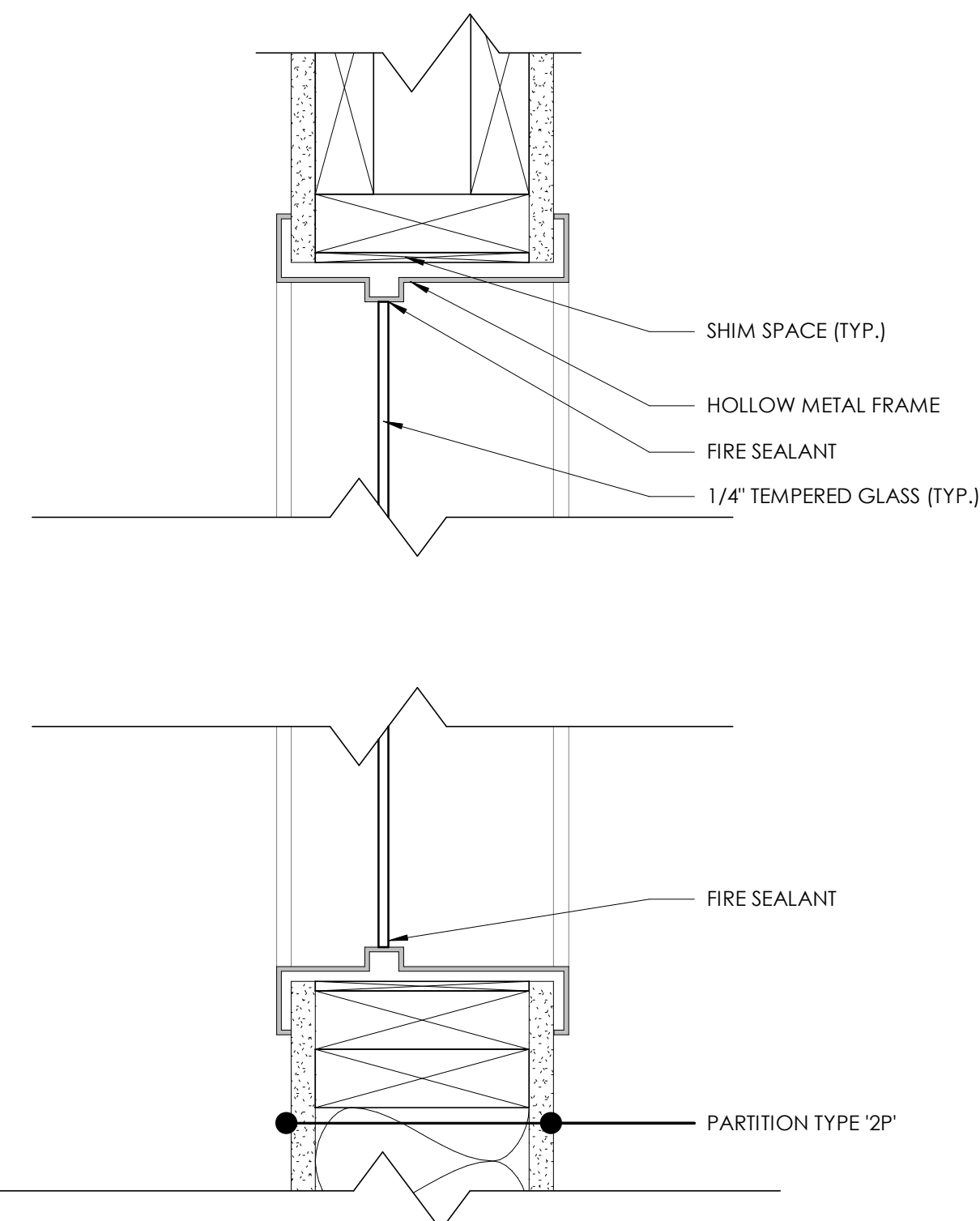


WINDOW DETAILS TO BE UPDATED AND COORDINATED WITH SELECTED WINDOW MANUFACTURER ACCURATE DORWIN

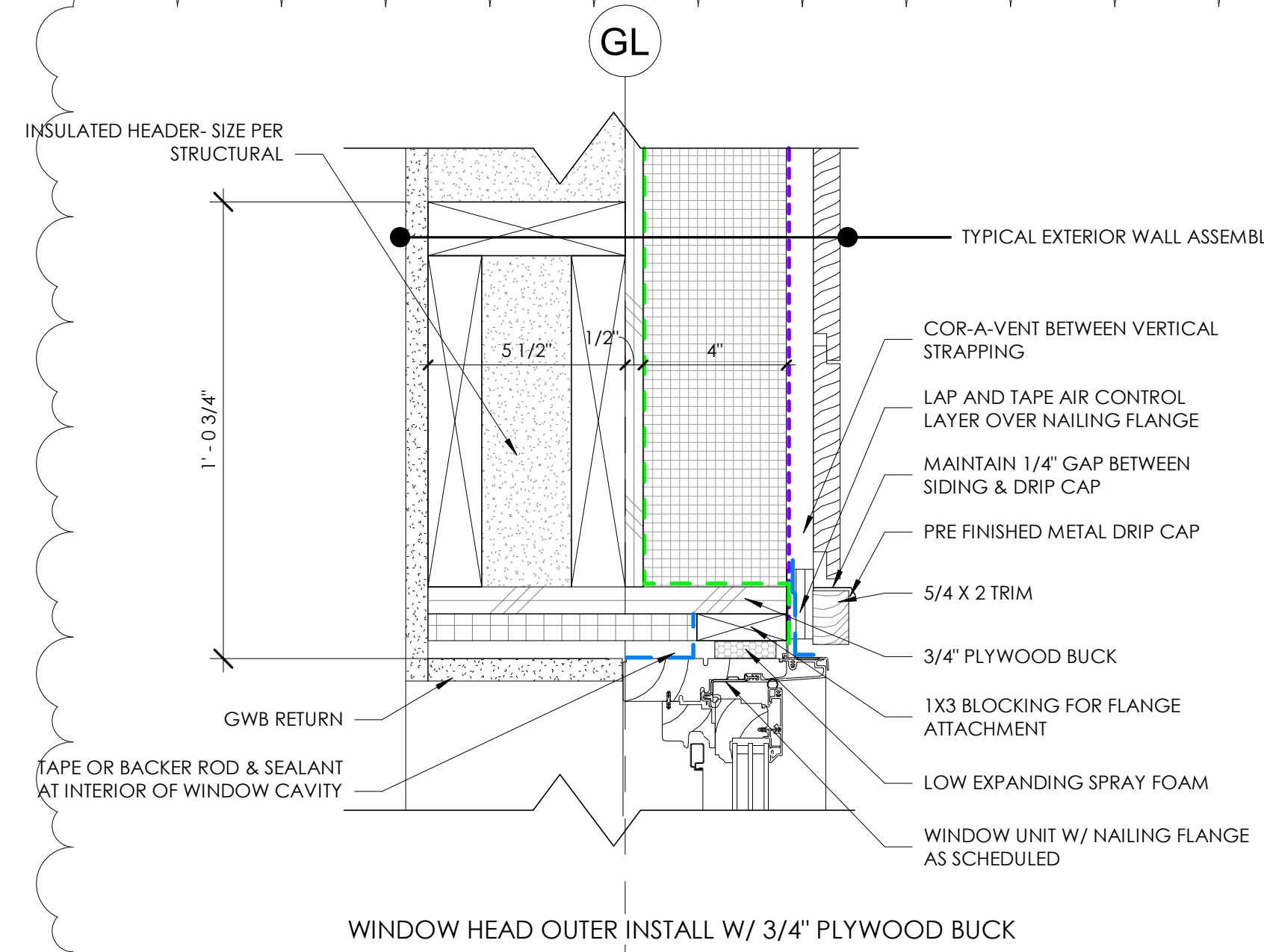


JAMB DETAIL

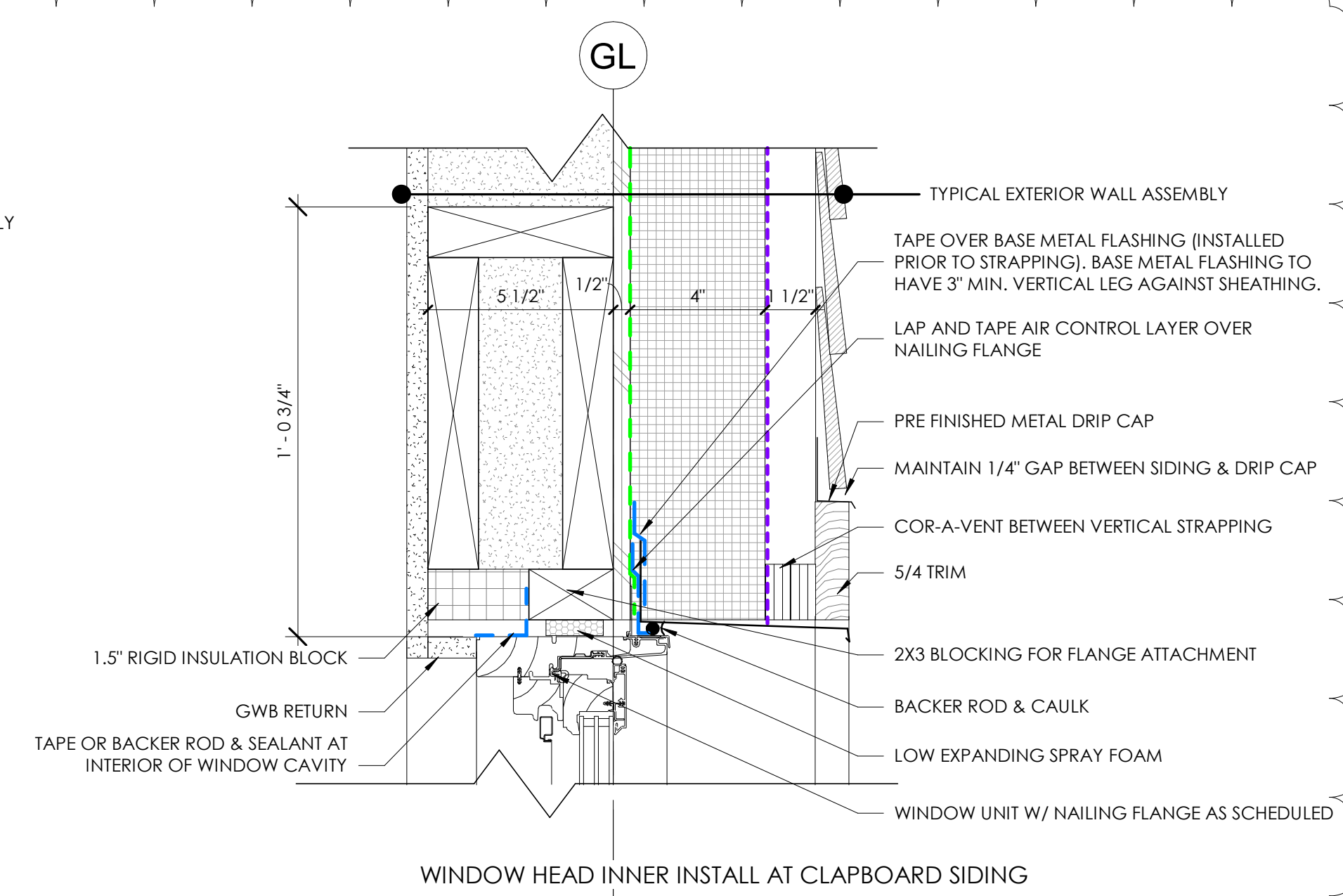
NOTE: SEE WINDOW SCHEDULE FOR WINDOW UNIT SIZES AND HEAD/SILL HEIGHTS



HEAD / SILL DETAIL

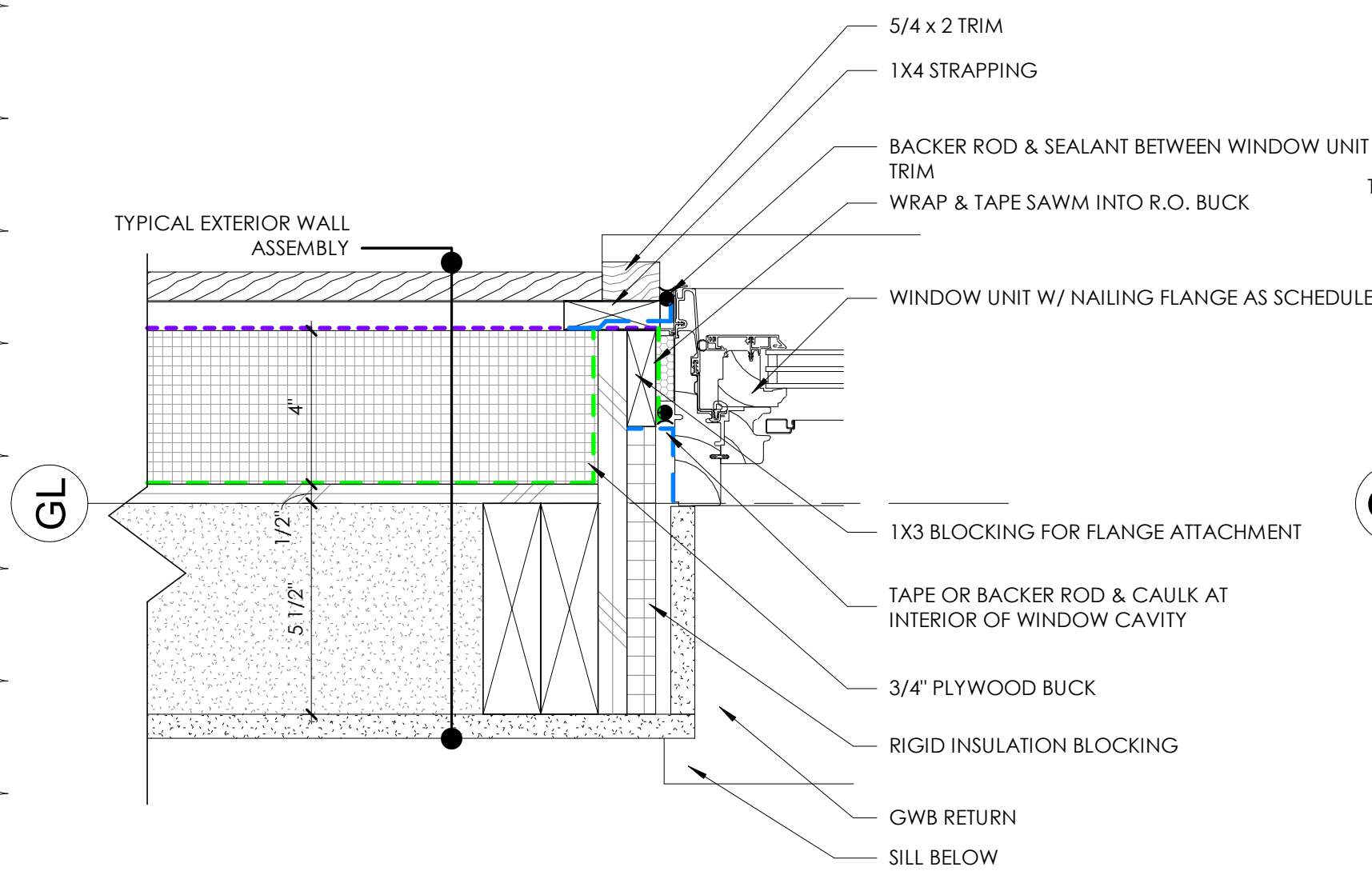


WINDOW HEAD OUTER INSTALL W/ 3/4\"/>

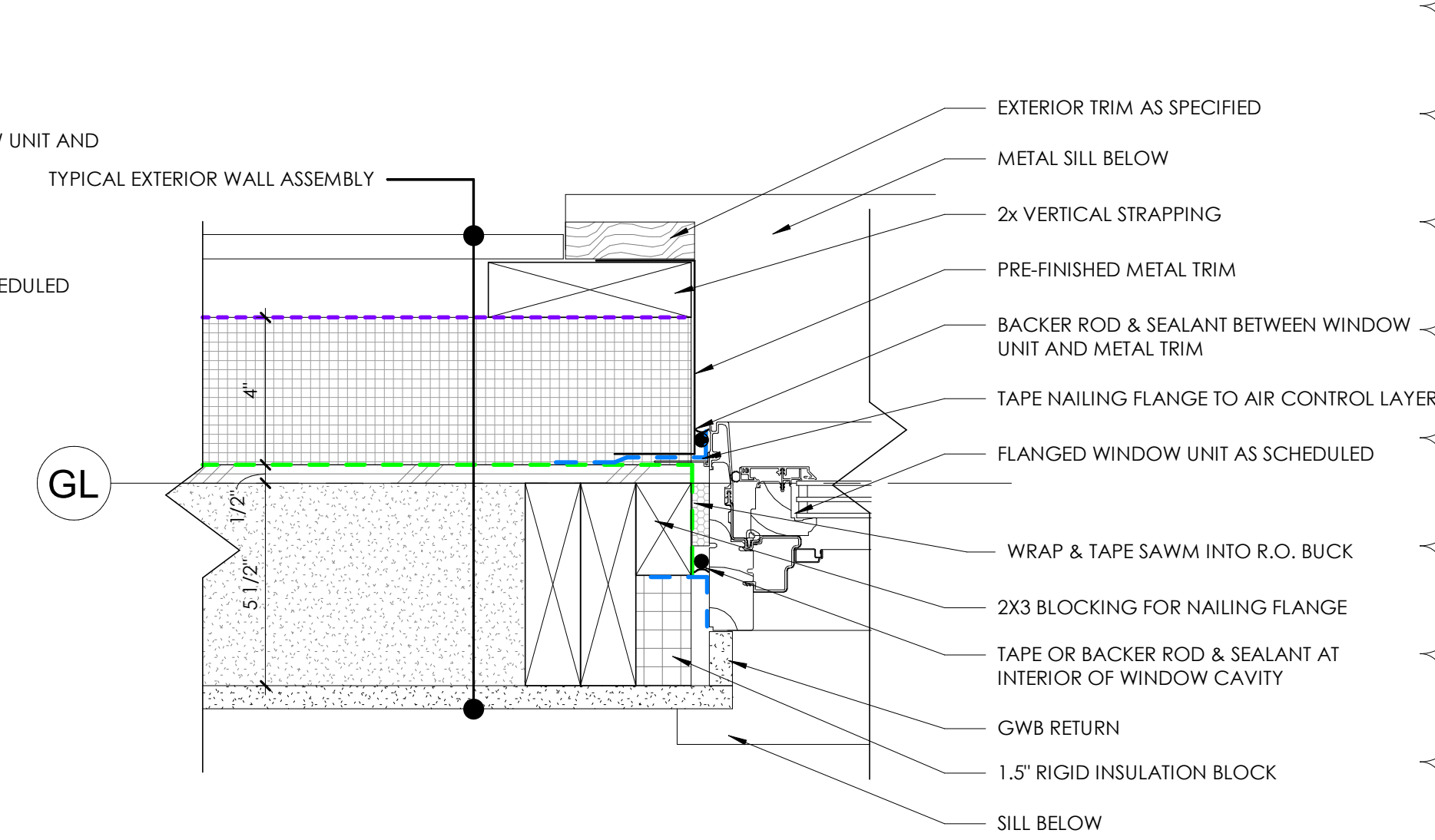


WINDOW HEAD INNER INSTALL AT CLAPBOARD SIDING

3 Typical Window Head Details
3" = 1'-0"

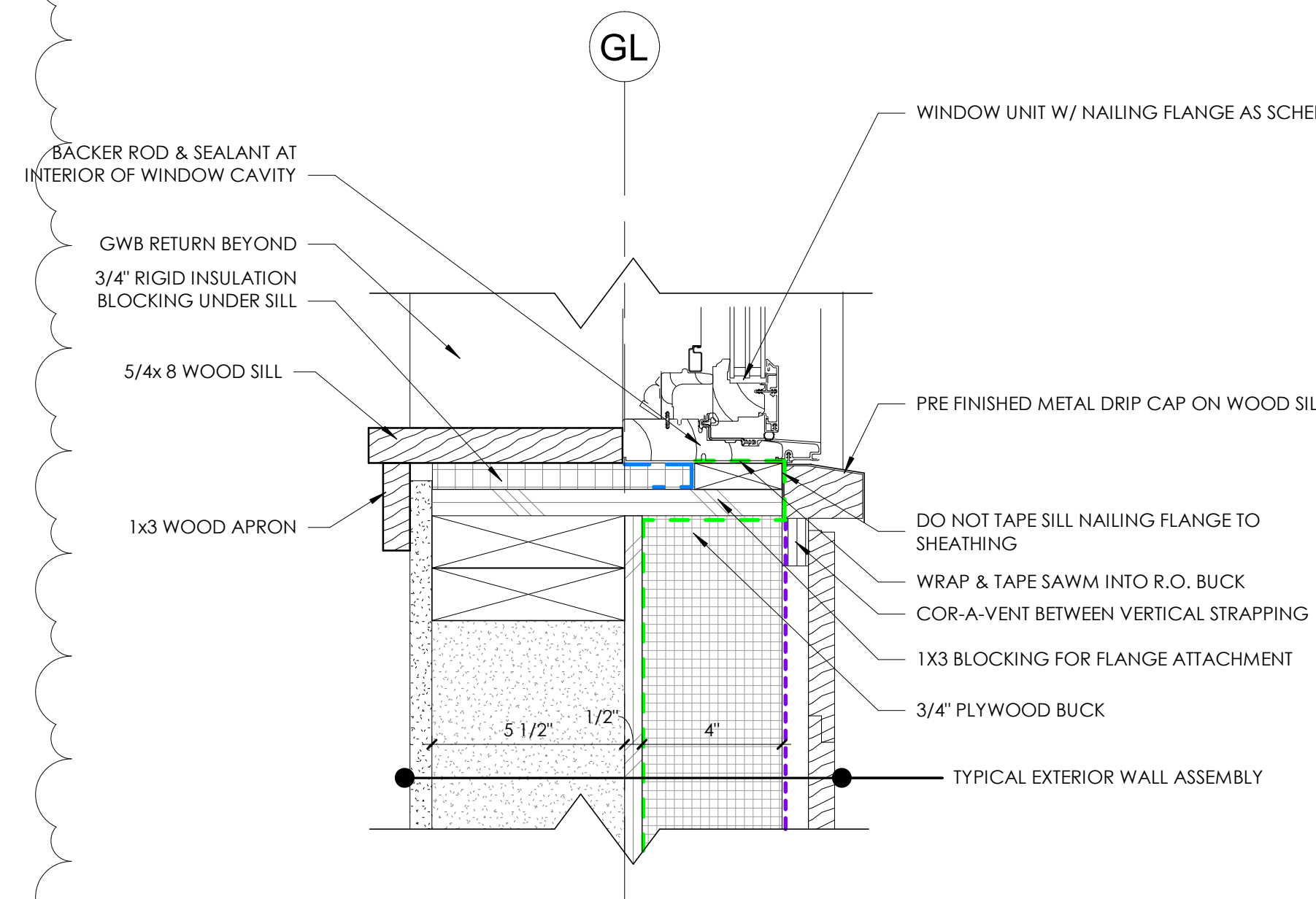


WINDOW JAMB OUTER INSTALL W/ 3/4\"/>

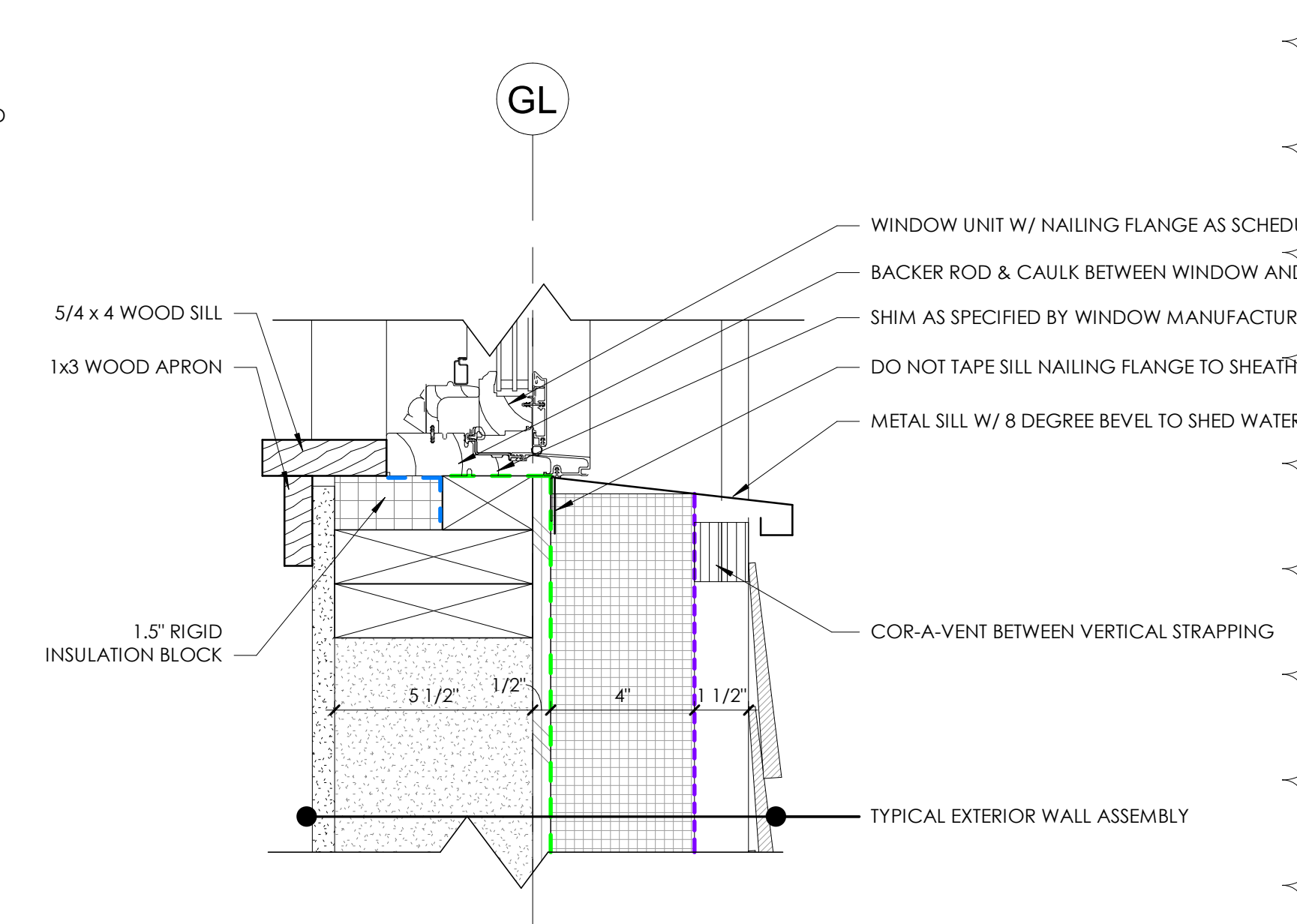


WINDOW JAMB INNER INSTALL FLAT TRIM

2 Typical Window Jamb Details
3" = 1'-0"



WINDOW SILL OUTER INSTALL W/ 3/4\"/>



WINDOW SILL INNER INSTALL W/ 2X3 BLOCKING

1 Typical Window Sill Details
3" = 1'-0"

4 Interior Window Detail
3" = 1'-0"

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ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com
ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
802.989.7249

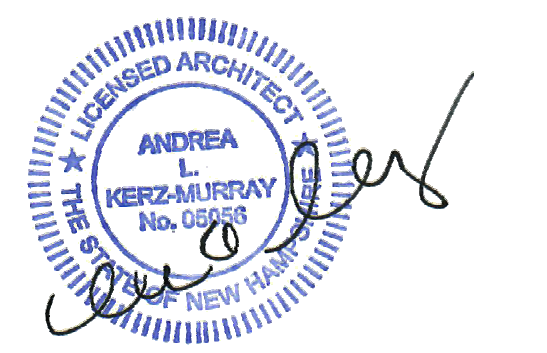
CIVIL ENGINEER
Nicholas Fiore, P.E.
Engineering Ventures
nikf@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER
Bob Neeld, P.E.
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER
Daniel Dupros, P.E.
Engineering Services of Vermont, LLC
daniel.dupros@esvtllc.com
802.885.8091

ELECTRICAL ENGINEER
Claus Barstenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.barstenstein@esvtllc.com
802.885.8091

CONSTRUCTION MANAGER
Calvin Russell, Senior Project Manager
ReArch Company, Inc.
calvinr@rearchcompany.com
802.863.8727



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PERMIT SET 05/15/2023

KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

WELCH
WINDOW DETAILS

AW-10.3

DOOR SCHEDULE NOTES:

1. ALL DIMENSIONS TO BE VERIFIED IN FIELD
2. ALL GLAZING TO BE TEMPERED AS REQUIRED BY CODE, TYP.
3. ALL GLAZED DOORS REQUIRING CRASH BAR TO HAVE AN INTERMEDIATE RAIL THAT OBSCURES THE CRASH BAR WHEN LOOING AT THE PULL SIDE OF THE DOOR. INTERMEDIATE RAIL TO BE INTEGRAL TO TO FACTORY ASSEMBLY OF THE DOOR.

MATERIAL ABBREVIATIONS:

AL or ALUM	Aluminum
CLD	Clad
CLR	Clear
FG	Fiberglass
HM	Hollow Metal
MTL	Metal
PTD	Painted
TB	Thermally Broken
WD	Wood

DOOR LOCKING FUNCTION KEY:

- ENTRANCE/EXIT:** INSIDE ALWAYS UNLOCKED, OUTSIDE UNLOCKED BY KEY/SWIPE CARD
- OFFICE:** INSIDE LEVER ALWAYS FREE, LOCK BY KEY OUTSIDE
- PRIVACY:** LOCKED BY PUSH BUTTON ON INSIDE AND RELEASED FROM OUTSIDE BY EMERGENCY TOOL
- PASSAGE:** BOTH LEVERS ALWAYS UNLOCKED
- SERVICE:** OUTSIDE UNLOCKED BY KEY, INSIDE ALWAYS FREE. ALWAYS NEED KEY TO UNLOCK
- PUSH/PULL:** NO LATCHBOLT, ALWAYS FREE BOTH SIDES



ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com
ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
802.989.7249

CIVIL ENGINEER

Nicholas Fiore, P.E.
Engineering Ventures
nikf@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E.
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

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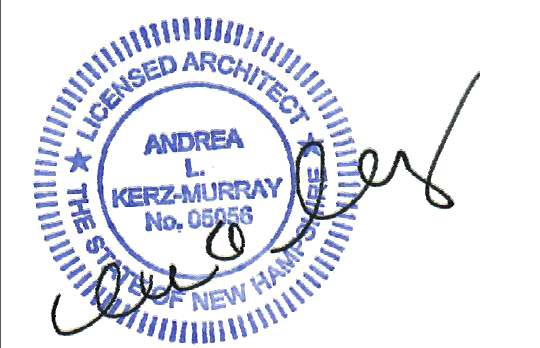
Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvtllc.com
802.885.8091

ELECTRICAL ENGINEER

Claus Barstenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.barstenstein@esvtllc.com
802.885.8091

CONSTRUCTION MANAGER

Calvin Russell, Senior Project Manager
REArch Company, Inc.
calvin@rearchcompany.com
802.863.8727



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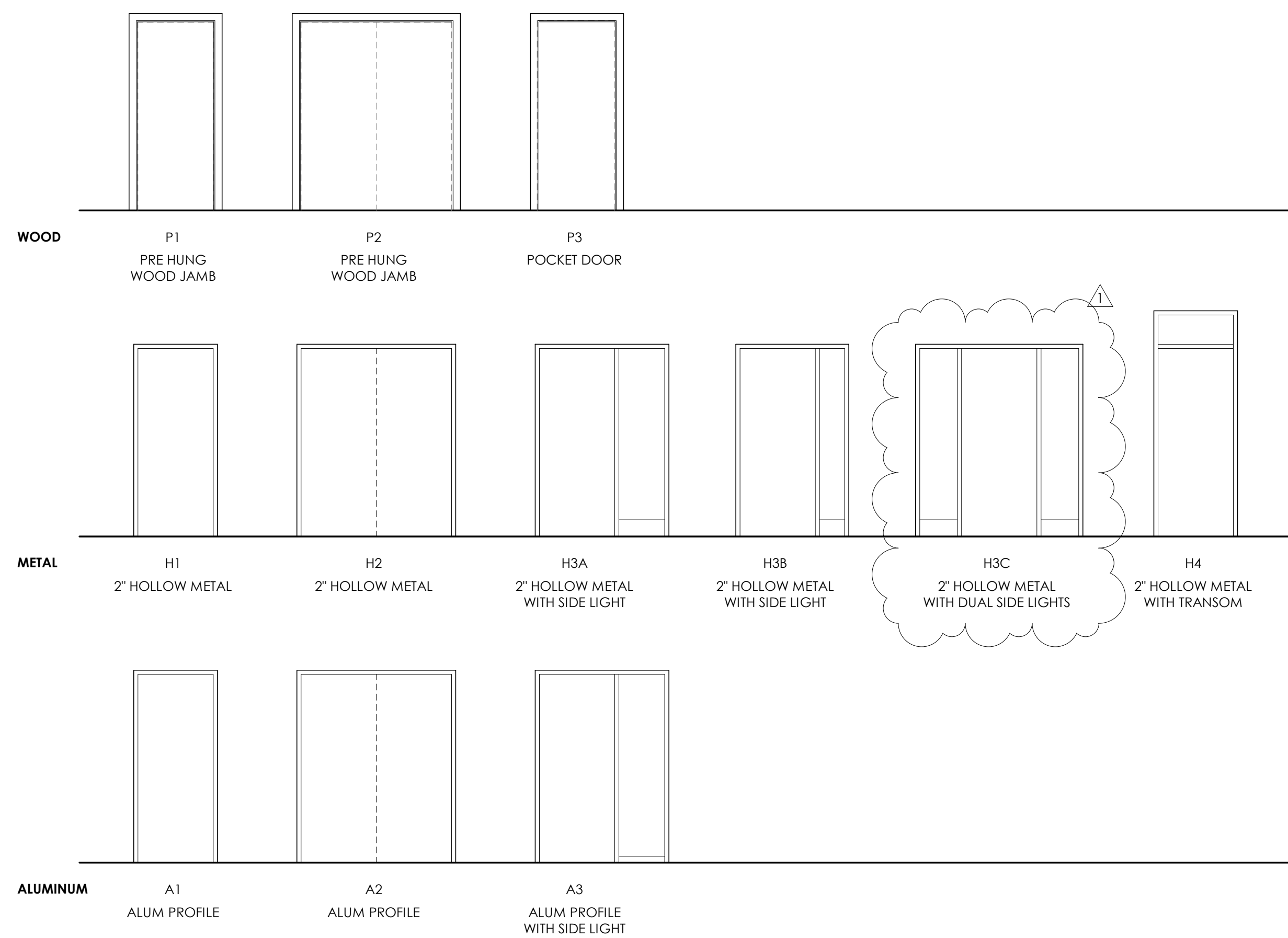
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**KUA
KILTON/WELCH
DORMITORIES**

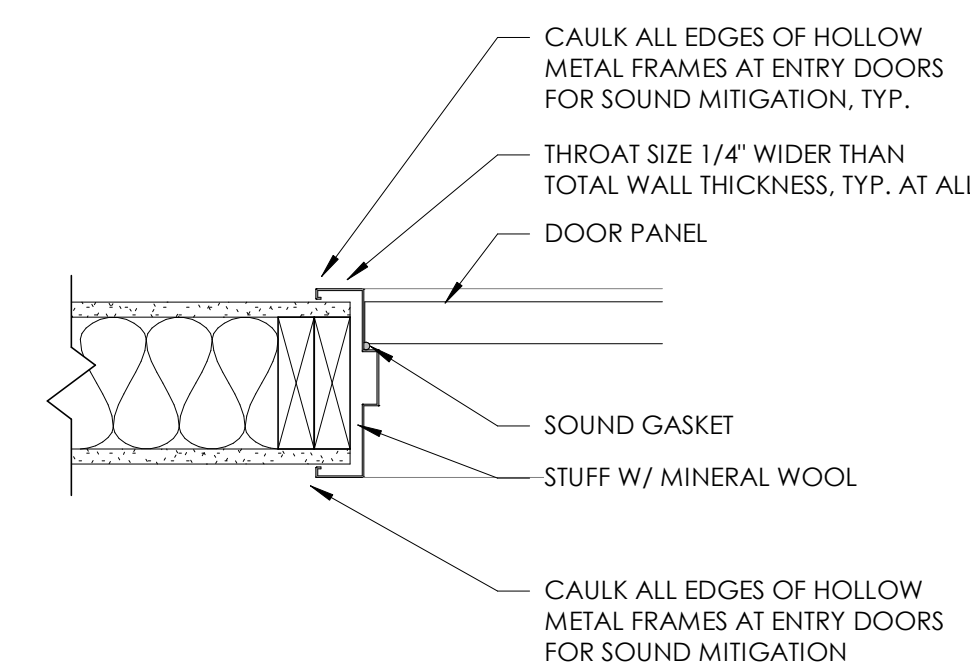
Main Street,
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**WELCH
DOOR SCHEDULE
& DETAILS**

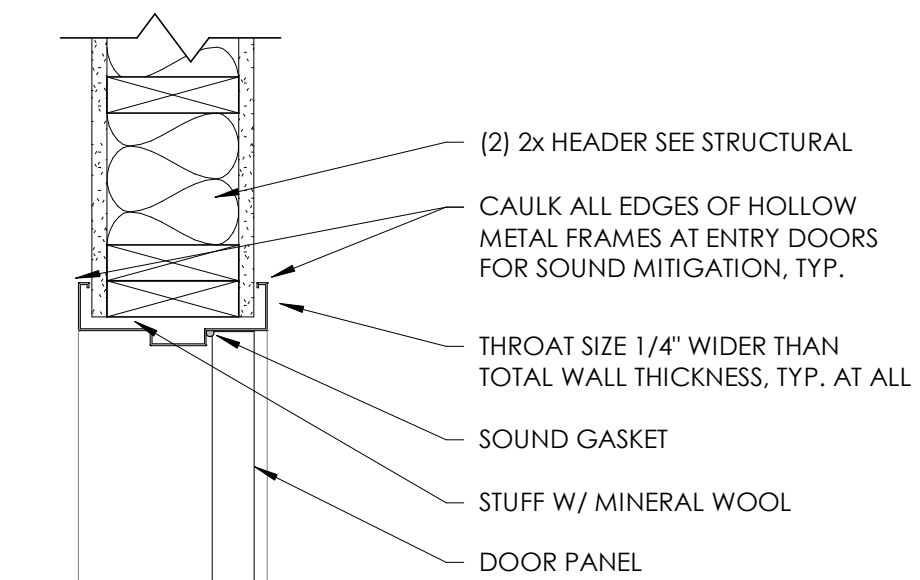
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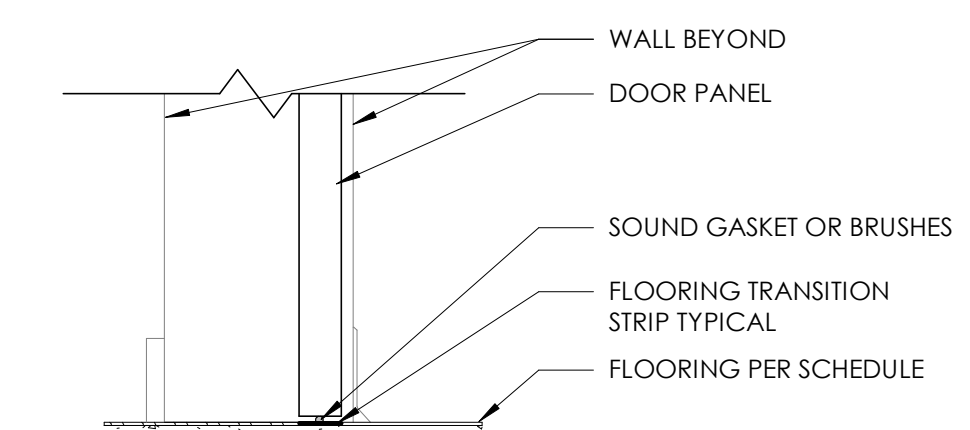
2 Frame Types
1/4" = 1'-0"



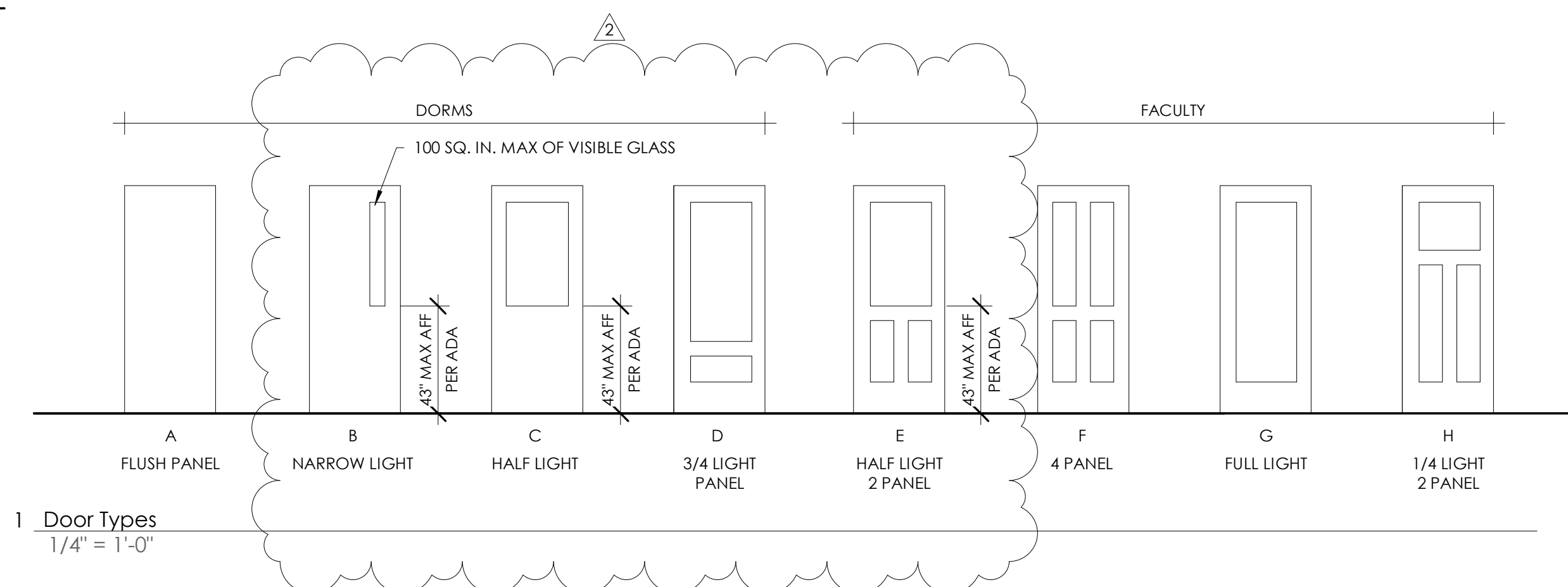
5 Typical HM Door Jamb Detail
1 1/2" = 1'-0"



4 Typical HM Door Head
1 1/2" = 1'-0"



3 Typical HM Door Sill Detail
1 1/2" = 1'-0"



1 Door Types
1/4" = 1'-0"

CIVIL ENGINEER

Nicholas Fiore, P.E.
Engineering Ventures
nikf@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E.
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER

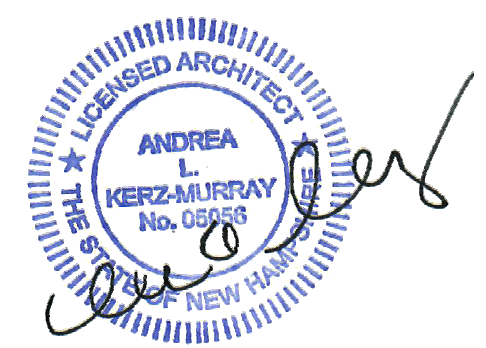
Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvtllc.com
802.885.8091

ELECTRICAL ENGINEER

Claus Barfenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.barfenstein@esvtllc.com
802.885.8091

CONSTRUCTION MANAGER

Calvin Russell, Senior Project Manager
ReArch Company, Inc.
calvin@rearchcompany.com
802.863.8727



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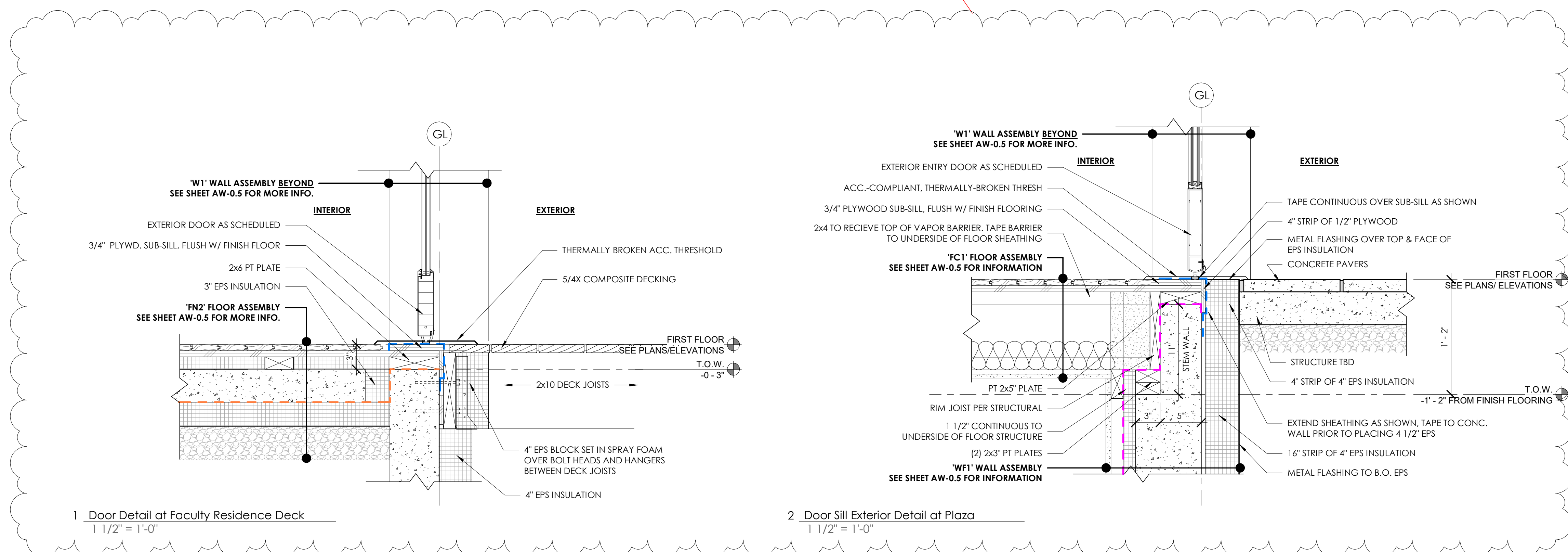
**KUA
KILTON/WELCH
DORMITORIES**

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**WELCH
DOOR DETAILS**

AW-10.6

**DOOR DETAILS TO BE UPDATED AND COORDINATED WITH
SELECTED DOOR MANUFACTURER**



J. WOOD FRAMING NOTES

- UNLESS OTHERWISE SPECIFIED, EACH PIECE OF LUMBER SHALL BEAR THE GRADE MARK, STAMP, OR OTHER IDENTIFYING MARKS INDICATING GRADES OF MATERIAL, AND RULES OR STANDARDS UNDER WHICH PRODUCED. SUCH IDENTIFYING MARKS ON A MATERIAL SHALL BE IN ACCORDANCE WITH THE RULE OR STANDARD UNDER WHICH MATERIAL IS PRODUCED, INCLUDING REQUIREMENTS FOR QUALIFICATIONS AND AUTHORITY OF THE INSPECTION ORGANIZATION, USAGE OF AUTHORIZED IDENTIFICATION, AND INFORMATION INCLUDED IN THE IDENTIFICATION. THE INSPECTION AGENCY FOR LUMBER SHALL BE APPROVED BY THE BOARD OF REVIEW, AMERICAN LUMBER STANDARDS COMMITTEE, TO GRADE SPECIES USED.
- PROTECT LUMBER AND OTHER PRODUCTS FROM DAMPNESS BOTH DURING AND AFTER DELIVERY AT THE SITE. PILE WOOD AND LUMBER IN STACKS IN SUCH A MANNER AS TO PROVIDE ADEQUATE AIR CIRCULATION AND TO PREVENT WARPING. LOCATE STACKS IN WELL DRAINED AREAS, SUPPORTED AT LEAST SIX INCHES ABOVE GRADE AND COVER WITH WELL VENTILATED SHEDS HAVING A FIRMLY CONSTRUCTED OVERHANGING ROOF AS WELL AS SUFFICIENT END WALL TO PROTECT LUMBER FROM DRIVING RAIN.
- STORE SEASONED MATERIALS IN DRY PORTIONS OF BUILDING.
- PROTECT SHEET MATERIALS FROM CORNERS BREAKING AND DAMAGING SURFACES WHILE UNLOADING.
- NOMINAL SIZES ARE INDICATED EXCEPT AS SHOWN BY DETAIL DIMENSIONS. PROVIDE ACTUAL SIZES AS REQUIRED BY PRODUCT STANDARD 20, DEPARTMENT OF COMMERCE.
- MAXIMUM MOISTURE CONTENT SHALL NOT EXCEED 19%.
- LIGHT GAGE METAL CONNECTIONS SHALL BE SIMPSON, SUBMIT MANUFACTURERS SPECIFICATION SHEETS.

LUMBER GRADES:

- 2x6 AND 2x4 BEARING WALLS, INTERIOR AND EXTERIOR LOCATIONS: SPRUCE-PINE-FIR No. 1 / No. 2 AS GRADED BY NLGA
- STRUCTURAL ROOF AND FLOOR FRAMING: SPRUCE-PINE-FIR No. 1 / No. 2 AS GRADED BY NLGA
- PRESERVATIVE PRESSURE TREATED LUMBER: SOUTHERN PINE No. 2, AS GRADED BY SPIB
- LAMINATED VENEER LUMBER (LVL):
 - PROVIDE LVL HEADERS AND BEAMS AS INDICATED.
 - LVL FRAMING SHALL BE 1 3/4" WIDTH, UNLESS NOTED OTHERWISE.
 - LVL FRAMING SHALL BE LAMINATED DOUGLAS FIR OR SOUTHERN PINE (GP LAM BY GEORGIA PACIFIC OR MICROLAM BY TRUS-JOIST OR EQUAL) MEETING THE FOLLOWING MINIMUM ALLOWABLE STRESS CRITERIA:
 - FB (BENDING STRESS) = 2,600 PSI
 - FV (HORIZ. SHEAR STRESS) = 285 PSI
 - E (MODULUS OF ELASTICITY) = 2,000,000 PSI
 - FC (COMPRESSION PERPENDICULAR TO GRAIN) = 750 PSI
- PARALLEL STRAND LUMBER (PSL):
 - PROVIDE PSL POSTS AS INDICATED.
 - PSL FRAMING (PARALLAM BY TRUS-JOIST OR EQUAL) TO MEET THE FOLLOWING MINIMUM ALLOWABLE STRESS CRITERIA:
 - FB (BENDING STRESS) = 2,400 PSI
 - FV (HORIZ. SHEAR STRESS) = 290 PSI
 - E (MODULUS OF ELASTICITY) = 1,800,000 PSI
 - FC (COMPRESSION PERPENDICULAR TO GRAIN) = 545 PSI
 - FD (COMPRESSION PARALLEL TO GRAIN) = 2,500 PSI
- PREFABRICATED WOOD I-JOISTS (TJI):
 - PROVIDE TJI JOISTS AS INDICATED.
 - TJI JOISTS TO BE AS MANUFACTURED BY TRUS-JOIST.
- MISCELLANEOUS LUMBER: PROVIDE WOOD FOR SUPPORT OR ATTACHMENT OF THE WORK INCLUDING NON-BEARING PARTITIONS, CANT STRIPS, BUCKS, NAILERS, BLOCKING, FURRING, GROUNDS, STRIPPING AND SIMILAR MEMBERS. PROVIDE LUMBER OF SIZES AND SHAPES INDICATED. GRADE: SPRUCE-PINE-FIR STUD GRADE AS GRADED BY NLGA.

MATERIALS:

- ROOF SHEATHING: 5/8" APA RATED SHEATHING, 24"oc SPAN RATING, EXPOSURE DURABILITY 1; SANDED, SECURE SHEATHING WITH LONGER EDGE PERPENDICULAR TO FRAMING MEMBERS AND WITH ENDS STAGGERED AND SHEET ENDS OVER BEARING. USE SHEATHING CLIPS BETWEEN SHEETS BETWEEN ROOF FRAMING MEMBERS.
- FLOOR SHEATHING: 3/4" APA RATED SHEATHING, 24"oc SPAN RATING, 2-SPAN MINIMUM, SECURE SUB-FLOOR SHEATHING WITH LONGER EDGE PERPENDICULAR TO FLOOR FRAMING AND WITH END JOINTS STAGGERED AND SHEET ENDS OVER BEARING. ATTACH WITH SUB-FLOOR GLUE AND 8D NAILS AT 6" ON CENTER AT PERIMETER AND 12" ON CENTER ON INTERIOR OF PANEL.
- WALL SHEATHING: 1/2" APA RATED SHEATHING, SECURE WALL SHEATHING WITH LONG DIMENSION PERPENDICULAR TO WALL STUDS, WITH ENDS OVER FIRM BEARING AND STAGGERED.
- FASTENERS AND ANCHORS: FURNISH ITEMS OF ROUGH HARDWARE, METAL CONNECTORS, BOLTS, ETC., REQUIRED TO COMPLETE THE WORK. BOLTS, NUTS AND WASHERS SHALL BE HOT DIPPED ELECTRO GALVANIZED STEEL.
- SILL GASKET ON TOP OF FOUNDATION WALL: 1/4 INCH THICK, PLATE WIDTH WIDE, CLOSED CELL POLYETHYLENE URETHANE FOAM FROM CONTINUOUS ROLLS.
- SUBFLOOR GLUE: APA AFG-01, WATERPROOF OF WATER SOLVENT BASE, AIR CURE TYPE, CARTRIDGE DISPENSED.
- WOOD PRESERVATIVE (PRESSURE TREATMENT): AWPA TREATMENT ACQ USING WATER BORNE PRESERVATIVE WITH 0.40 PERCENT RETAINAGE.
- SET STRUCTURAL MEMBERS LEVEL AND PLUMB, IN CORRECT POSITION. PLACE HORIZONTAL MEMBERS, CROWN SIDE UP.
- MAKE PROVISIONS FOR ERECTION LOADS, AND FOR SUFFICIENT TEMPORARY BRACING TO MAINTAIN STRUCTURE SAFE, PLUMB, AND IN TRUE ALIGNMENT UNTIL COMPLETION OF ERECTION AND INSTALLATION OF PERMANENT BRACING.
- CONSTRUCT LOAD BEARING FRAMING FULL LENGTH WITHOUT SPLICES.
- DOUBLE MEMBERS AT OPENINGS OVER 24 INCHES WIDE. SPACE SHORT STUDS OVER AND UNDER OPENING TO STUD SPACING.
- CONSTRUCT DOUBLE JOIST HEADERS AT FLOOR AND CEILING OPENINGS AND UNDER WALL STUD PARTITIONS THAT ARE PARALLEL TO FLOOR JOISTS. FRAME RIGIDLY INTO JOISTS.
- BRIDGE JOISTS FRAMING IN EXCESS OF 8 FEET SPAN AT MID-SPAN AND WHERE SHOWN ON DRAWINGS. FIT SOLID BLOCKING OR BRIDGING AT ENDS OF MEMBERS.
- TOLERANCES:
 - FRAMING MEMBERS: 1/4 INCH FROM TRUE POSITION, MAXIMUM.
 - SURFACE FLATNESS OF FLOOR: 1/4 INCH IN 10 FEET MAXIMUM, AND 1/2 INCH IN 30 FEET MAXIMUM.
- ALL POSTS AND COLUMNS FROM HEADERS AND BEAMS SHALL BEAR CONTINUOUSLY TO CONCRETE FOUNDATIONS INCLUDING BLOCKING IN FLOOR AND ROOF SPACES. BLOCKING SHALL BE OF THE SIZE AND SHAPE TO CARRY THE REQUIRED LOADING.
- ALL BOTTOM BEARING PLATES, FOR STUD WALLS OR BEAM BEARING, SHALL BE ANCHORED TO THE FOUNDATION WITH 1/2" DIAMETER ANCHOR BOLTS AT 4'-0" ON CENTER, UNLESS NOTED OTHERWISE.
- ALL BEARING WALLS SHALL BE BLOCKED AT 4'-0" ON CENTER, VERTICALLY, UNLESS NOTED OTHERWISE.
- ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE PRESSURE TREATED, P.P.T.
- ALL FASTENERS AND HANGERS FOR PRESSURE TREATED WOOD TO BE G90 HOT-DIPPED GALVANIZED.
- PROVIDE 1/4" NOMINAL GAP BETWEEN WOOD FRAMING AND HORIZONTAL FACES OF CONCRETE WALLS.

K. PLATE CONNECTED WOOD TRUSSES

- ALL FRAMING SHALL BE IN COMPLIANCE WITH THE 2015 INTERNATIONAL BUILDING CODE, (IBC) CHAPTER 23 "WOOD."
- TRUSS FABRICATORS ARE REQUIRED TO BE MEMBERS OF THE STRUCTURAL BUILDING COMPONENTS ASSOCIATION, (SBCA). THE FABRICATORS ARE ALSO REQUIRED TO HAVE THIRD PARTY INSPECTION IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE, (TPI) AND IBC CHAPTER 17.
- TRUSS DESIGN LOADS ARE PER THE "WOOD TRUSS DESIGN NOTES" AND TRUSS LOADING DIAGRAMS ON THE CONTRACT DOCUMENTS. THE TRUSSES SHALL BE DESIGNED FOR THE LOAD CASES WHICH PRODUCE THE HIGHEST STRESSES. LOAD CASES SHALL BE PER IBC 1605.0 "LOAD COMBINATIONS." MAXIMUM ALLOWABLE DEFLECTION OF TRUSSES:
 - ROOF TRUSS: LIVE LOAD: L/240 TOTAL LOAD: L/180
 - FLOOR TRUSS: LIVE LOAD: L/360 TOTAL LOAD: L/240
- ALL PREFABRICATED WOOD TRUSSES ARE TO BE DESIGNED BY OTHERS. PRIOR TO ORDERING ANY TRUSSES, SUBMIT TO THE ENGINEER ONE (1) SET OF SHOP DRAWINGS AND ONE (1) SET OF CALCULATIONS. THE SHOP DRAWINGS SHALL BE STAMPED BY AN ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE. NO TRUSSES MAY BE FABRICATED PRIOR TO THE ENGINEER'S APPROVAL OF THE TRUSS DESIGN. ALONG WITH THE SHOP DRAWINGS, PROVIDE A COPY OF THE TPI CERTIFICATION OR STAMP THAT THE TRUSS MANUFACTURING FACILITY HAS THIRD PARTY INSPECTIONS BY THE TPI.
- REVIEW OF TRUSS SUBMITTALS BY THE ENGINEER SHALL BE ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT AND SHALL NOT INDICATE APPROVAL OF THE DESIGN OF THE TRUSS OR ITS COMPONENTS. REVIEW SHALL BE LIMITED TO THE FOLLOWING:
 - VERIFICATION OF CORRECT LOADING USED BY THE TRUSS ENGINEER.
 - REVIEW OF TRUSS REACTIONS AND VERIFICATION THAT BUILDING ELEMENTS ARE ADEQUATE TO SUPPORT TRUSS REACTIONS AS DETERMINED BY THE TRUSS ENGINEER.
 - REVIEW OF TRUSS DEFLECTIONS AS CALCULATED BY THE TRUSS ENGINEER FOR SUITABILITY IN THE OVERALL BUILDING CONFIGURATION.
 - DIMENSIONS WILL BE REVIEWED FOR CONFORMANCE WITH THE BEARING LOCATIONS AS INDICATED ON THE PROJECT DRAWINGS.
- ALL TRUSSES SHALL BE DELIVERED TO THE SITE, HANDLED, AND STORED IN COMPLIANCE WITH THE WTCATPI BUILDING COMPONENT SAFETY INFORMATION (BCSI) PUBLICATION "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLATION, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."
- TRUSS BRACING SHALL BE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS AND WITH WTCATPI BCSI PUBLICATION, TOP CHORD AND BOTTOM CHORD BRACING SHALL BE INSTALLED IN ACCORDANCE WITH THE WTCATPI BCSI. ALL BRACING SHALL REMAIN AS PERMANENT BRACING EXCEPT FOR THE TEMPORARY LATERAL BRACING NAILED TO THE TOP SIDE OF THE TOP CHORDS OF THE TRUSSES. DIAGONAL BRACES SHALL BE NAILED TO THE UNDERSIDE OF THE TOP CHORDS. LATERAL BRACING ON THE TOP SIDE OF THE TOP CHORD SHALL BE REPLACED BY SHEATHING.
- ALL TRUSSES MUST BE DESIGNED FOR THE BEARING WIDTHS SHOWN ON THE CONTRACT DOCUMENTS. THE WIDTH OF BEARING MAY NOT BE CHANGED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.
- FOR NAILING JOIST HANGERS OR ANY OTHER TYPE OF CONNECTOR, USE ONLY "JOIST HANGER" NAILS OR ANY OTHER NAIL APPROVED BY THE HANGER MANUFACTURER. DO NOT USE CEMENT-COATED SINKERS OR ROOFING NAILS.
- FIELD CUTTING HOLES AND NOTCHES IN ANY FRAMING MEMBER IS NOT ACCEPTABLE WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- IN LIEU OF A RIGID CEILING, THE BOTTOM CHORDS OF THE TRUSSES MUST BE BRACED. SEE THE TRUSS SHOP DRAWINGS FOR BOTTOM CHORD BRACING REQUIREMENTS WHERE THERE IS NO HARD CEILING. IF THE SHOP DRAWINGS DO NOT SPECIFY A BRACING REQUIREMENT, PROVIDE CONTINUOUS BRACING AT 24" ON CENTER, (oc).
- PUBLICATIONS: SUBMIT ONE COPY OF BCSI 1 AND BCSI B1 SUMMARY SHEET AND PROVIDE TWO COPIES TO ERECTOR TO BE KEPT ON SITE.

L. MISCELLANEOUS SPECIFICATIONS

SUBMIT ALL PRODUCTS AND SYSTEMS LISTED IN THIS SECTION IN ACCORDANCE WITH THE REQUIREMENTS OF DIVISION 1, WITH MANUFACTURER'S RECOMMENDATIONS APPLICABLE TO PROJECT USE. SEE DIVISION 1 SECTIONS FOR ALTERNATES.

- SLAB-ON-GRADE CONTROL JOINTS: SAW CUT USING EARLY ENTRY SAW IN ACCORDANCE WITH SOFF-CUT (OR ACCEPTED EQUAL) SYSTEM SPECIFICATION.
- EXTERIOR SLABS ON STRUCTURAL DRAWINGS, UNLESS NOTED OR SPECIFIED OTHERWISE:
 - EXPANSION JOINT FILLER: 1/2" WIDTH (UNO), CERAMAR, BY W R MEADOWS WHERE NOT OTHERWISE INDICATED.
 - JOINT SEALANT: GARDOX, BY W R MEADOWS
 - SEALER ONLY AT SLABS NOT RECEIVING COVERING MATERIAL, FINISH, ETC.: LIQUI-HARD, BY W R MEADOWS.
 - MOISTURE RETAINING COVER CURE COVERED SLABS.
- INTERIOR EXPOSED SLABS: SEE ARCH DRAWINGS AND SPECIFICATIONS: FOR SLABS NOT COVERED BY THESE PROVIDE THE FOLLOWING:
 - EXPANSION JOINT FILLER: 3/8" WIDTH (UNO), CERAMAR, BY W R MEADOWS WHERE NOT OTHERWISE INDICATED.
 - JOINT SEALANT: POURTHANE, BY W R MEADOWS
 - SEALER ONLY AT SLABS NOT RECEIVING COVERING MATERIAL, FINISH, ETC.: ASHFORD FORMULA, BY CURECRETE.
 - MOISTURE RETAINING COVER CURE COVERED SLABS
- INTERIOR SLABS RECEIVING COVERING MATERIAL, FINISH, ETC. UNLESS NOTED OR SPECIFIED OTHERWISE:
 - EXPANSION JOINT FILLER: 3/8" WIDTH (UNO), CERAMAR, BY W R MEADOWS WHERE NOT OTHERWISE INDICATED)
 - JOINT SEALANT: SIKAFLEX 1A, UNLESS OTHER REQUIRED FOR FLOOR SYSTEM, SEE SPEC.
 - SEALER: NONE
 - MOISTURE RETAINING COVER CURE, SEE SPECIFICATIONS



**VERMONT INTEGRATED
ARCHITECTURE, PC**

ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com

ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
802.989.7249

CIVIL ENGINEER

Nicholas Fiore, P.E.
Engineering Ventures
nikf@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Need, P.E.
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER

Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvllc.com
802.885.8091

ELECTRICAL ENGINEER

Claus Barfenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.barfenstein@esvllc.com
802.885.8091

CONSTRUCTION MANAGER

Calvin Russell, Senior Project Manager
ReArch Company, Inc.
calvinr@rearchcompany.com
802.863.6227

DATE ISSUED: 03/27/2023
Drawn: JTM

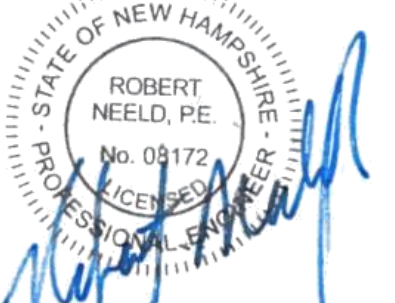
Checked: JLR

REVISIONS:

#	Date	Description
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PERMIT SET
05/15/2023

KUA DORM PROJECT
MAY 12, 2023



**KUA
KILTON/WELCH
DORMITORIES**

Main Street,
Meriden, NH 03770

GENERAL NOTES

SW-0.2

Statement of Special Inspections

Project: KUA Kilton/Welch Dormitories & Faculty Residences
Location: Meriden, NH
Owner: Kimball Union Academy

Design Professional in Responsible Charge: Engineering Ventures, PC

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection Coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This Statement of Special Inspections encompasses the following disciplines:
 Structural Mechanical/Electrical/Plumbing
 Architectural Other: _____

The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge.

A Final Report of Special Inspections documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

Interim Report Frequency per attached schedule.

Prepared by:

Julie Reilly
 Engineering Ventures, PC
 3/27/2023

Schedule of Inspection and Testing Agencies

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

- Soils and Foundations
- Cast-in-Place Concrete
- Precast Concrete
- Masonry
- Structural Steel
- Cold-Formed Steel Framing
- Spray Fire Resistant Material
- Wood Construction
- Exterior Insulation and Finish System
- Mechanical & Electrical Systems
- Architectural Systems
- Special Cases

Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. Special Inspection Coordinator	TBD	
2. Structural Engineer	Engineering Ventures, PC	208 Flynn Avenue, Suite 2A Burlington VT 05401 Tel: 802-863-6225
3. Geotechnical Engineer	S.W. Cole Engineering, Inc	226 Holiday Drive, Suite 4 White River Junction, VT 05001 Tel: 802-281-4559
4. Inspector	TBD	
5. Testing Agency	TBD	
6. Architect	Vermont Integrated Architecture, PC	P.O. Box 862 Middlebury, VT 05753 Tel: 802-989-7249

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

Quality Assurance Plan

Quality Assurance for Seismic Resistance

Seismic Design Category **B**
 Quality Assurance Plan Required (Y/N) **N**

Description of seismic force resisting system and designated seismic systems:
Light-framed walls sheathed with wood structural panels rated for shear resistance

Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust) V^{RH} (V^{RSD}) **115mph (89mph)**
 Wind Exposure Category **C**
 Quality Assurance Plan Required (Y/N) **N**

Description of wind force resisting system and designated wind resisting components:
Light-framed walls sheathed with wood structural panels rated for shear resistance

Qualifications of Inspectors and Testing Technicians

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided if requested.

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test or inspection have a specific certification or license as indicated below, such designation shall appear below the Agency Number on the Schedule.

PE/SE Structural Engineer – a licensed SE or PE specializing in the design of building structures
 PE/GE Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations
 EIT Engineer-In-Training – a graduate engineer who has passed the Fundamentals of Engineering examination

American Concrete Institute (ACI) Certification

ACI-CFTT Concrete Field Testing Technician – Grade 1
 ACI-CCI Concrete Construction Inspector
 ACI-LTT Laboratory Testing Technician – Grade 1&2
 ACI-STT Strength Testing Technician

American Welding Society (AWS) Certification

AWS-CWI Certified Welding Inspector
 AWS/AISC-SSI Certified Structural Steel Inspector

American Society of Non-Destructive Testing (ASNT) Certification

ASNT Non-Destructive Testing Technician – Level II or III.

International Code Council (ICC) Certification

ICC-SMSI Structural Masonry Special Inspector
 ICC-SWSI Structural Steel and Welding Special Inspector
 ICC-SFSI Spray-Applied Fireproofing Special Inspector
 ICC-PCSI Prestressed Concrete Special Inspector
 ICC-RCSI Reinforced Concrete Special Inspector

National Institute for Certification in Engineering Technologies (NICET)

NICET-CT Concrete Technician – Levels I, II, III & IV
 NICET-ST Soils Technician - Levels I, II, III & IV
 NICET-GET Geotechnical Engineering Technician - Levels I, II, III & IV

Other

Soils and Foundations

Item	Agency # (Qualif.)	Scope
1. Shallow Foundations	3 PE/GE	Inspect soils below footings and slabs for adequate bearing capacity and consistency with geotechnical report. FREQUENCY: Periodic Verify excavations are extended to proper depth and have reached proper material. FREQUENCY: Periodic Inspect preparation of subgrade prior to placement of controlled fill or foundations. FREQUENCY: Periodic
2. Controlled Structural Fill	4	Perform sieve tests (ASTM D422 & D1140) and modified Proctor tests (ASTM D1557) of each source of fill material, and determine optimum water content and maximum dry density. FREQUENCY: Periodic Inspect extent, composition, placement, lift thickness, and proof-rolling/compaction of controlled fill (including granular fill, sand and gravel, and crushed stone below footings and slabs) in accordance with specifications. FREQUENCY: Continuous

Cast-in-Place Concrete

Item	Agency # (Qualif.)	Scope
1. Mix Design	4 ACI-CCI ICC-RCSI	Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design. FREQUENCY: Periodic
2. Reinforcement Installation	4 ACI-CCI ICC-RCSI	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters. FREQUENCY: Periodic
3. Anchor Rods	4 ACI-CCI ICC-RCSI	Inspect size, positioning and embedment of anchor rods. Verify embedded end of rod (including bends, washers, nuts) is in conformance with approved construction documents. FREQUENCY: All anchor rods, prior to concrete pour.
4. Concrete Placement	4 ACI-CCI ICC-RCSI	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated. FREQUENCY: Continuous
5. Sampling and Testing of Concrete	4 ACI-CFTT (in field) ACI-STT (in lab)	Test slump (ASTM C143), air-content (ASTM C231 or C173), temperature (ASTM C1064), and unit weight (ASTM C138). FREQUENCY: Continuous Test concrete compressive strength (ASTM C31 & C39). FREQUENCY: Continuous
6. Curing and Protection	4 ACI-CCI ICC-RCSI	Inspect curing and protection procedures. FREQUENCY: Periodic
7. Post-Installed Anchors	4 ACI-CCI ICC-RCSI	Inspection of anchors and reinforcing steel post-installed in hardened concrete: Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque. FREQUENCY: Periodic or as required the research report issued by an approved source.
8. Formwork	4	Inspect formwork for shape, location and dimensions of the concrete member being formed. FREQUENCY: Periodic

Wood Construction

Item	Agency # (Qualif.)	Scope
1. Diaphragms and Shear Walls	4	Verify panel grade and thickness. Verify fastener size and spacing. Verify fasteners are not countersunk into sheathing. Verify panel configuration and blocking. Verify location and type of hold-downs and ties. FREQUENCY: Upon completion of diaphragm/shear walls.
2. Other elements of the seismic-force-resisting system (includes: straps, hold downs)	4	Inspect nailing, bolting, anchorage and other fastening systems. FREQUENCY: Upon completion.



ANDREA MURRAY, AIA, NCARB, LEED AP
 andrea@vermontintegratedarchitecture.com
 ASHAR NELSON, AIA, LEED AP
 ashar@vermontintegratedarchitecture.com

P.O. Box 862
 Middlebury, VT 05753
 802.989.7249

CIVIL ENGINEER

Nicholas Fiore, P.E.
 Engineering Ventures
 niki@engineeringventures.com
 802.863.6225

STRUCTURAL ENGINEER

Bob Need, P.E.
 Engineering Ventures
 bobn@engineeringventures.com
 802.863.6225

MECH./PLUMBING ENGINEER

Daniel Dupros, P.E.
 Engineering Services of Vermont, LLC
 daniel.dupros@esvllc.com
 802.885.8091

ELECTRICAL ENGINEER

Claus Bartenstein, P.E., LEED-AP
 Engineering Services of Vermont, LLC
 claus.bartenstein@esvllc.com
 802.885.8091

CONSTRUCTION MANAGER

Calvin Russell, Senior Project Manager
 ReArch Company, Inc.
 calvinr@rearchcompany.com
 802.863.6227

DATE ISSUED: 03/27/2023
 Drawn: JTM
 Checked: JLR

REVISIONS:

#	Date	Description
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PERMIT SET
 05/15/2023

KUA DORM PROJECT
 MAY 12, 2023



KUA KILTON/WELCH DORMITORIES

Main Street,
 Meriden, NH 03770

SPECIAL INSPECTIONS

SW-0.3

#	Date	Description
1	05/15/23	Scope Changes to Bid Set #1

PERMIT SET
05/15/2023

KUA DORM PROJECT
MAY 12, 2023

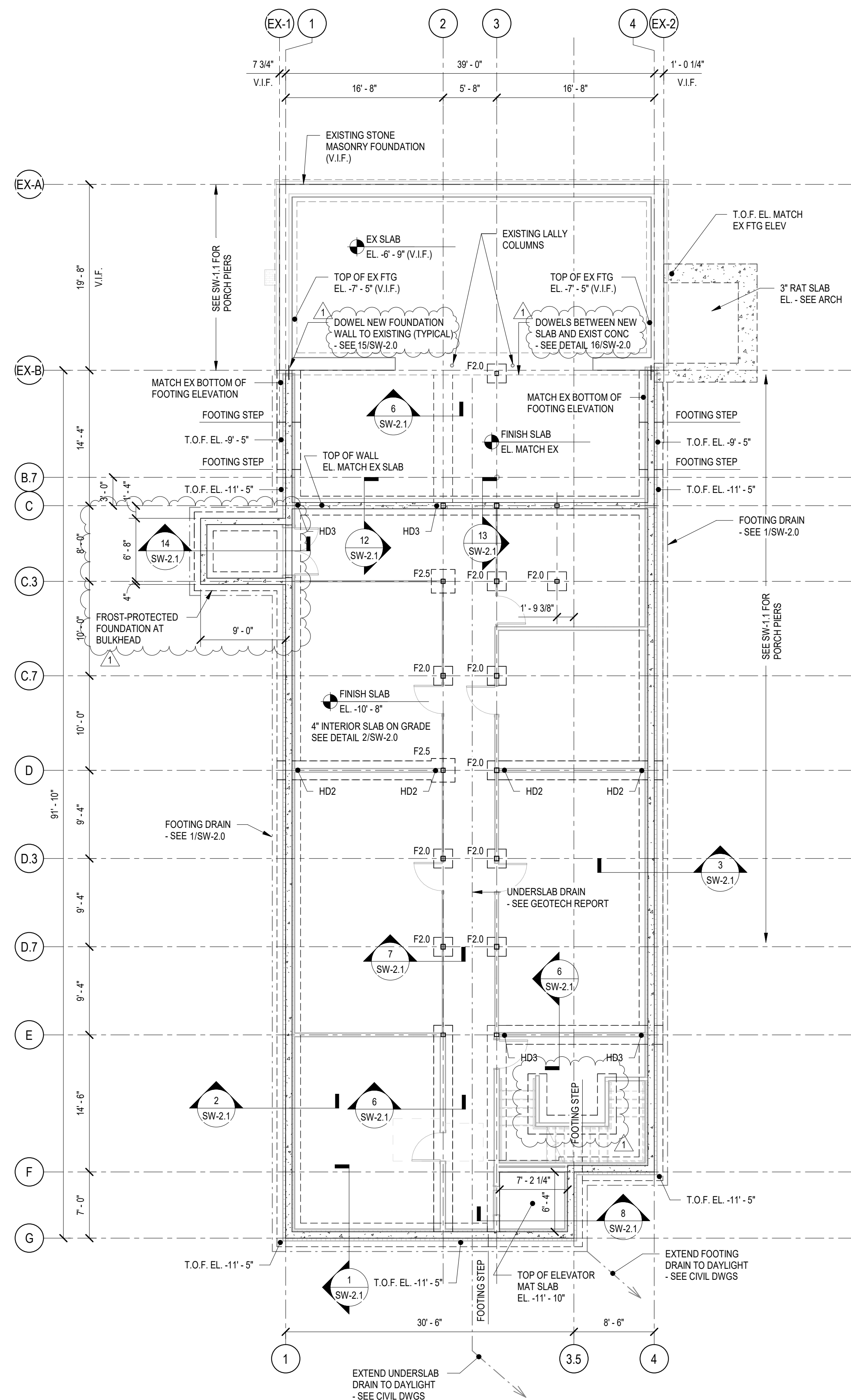


KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

FOUNDATION
PLAN

SW-1.0



1 FOUNDATION PLAN
1/8" = 1'-0"

- NOTES:
- ELEVATIONS SHOWN ARE BASED ON EXISTING FIRST FLOOR FINISH FLOOR ELEVATION OF 0' - 0'.
 - "T.O.F." DENOTES TOP OF FOOTING ELEVATION.
 - SEE SW-1.1 FOR TOP OF WALL AND TOP OF SHELF ELEVATIONS.
 - "F#" DENOTES SPREAD FOOTING. SEE FOOTING SCHEDULE FOR SIZE AND REINFORCING.
 - "HD#" DENOTES HOLD DOWN. SEE HOLD DOWN SCHEDULE AND DETAILS SHEET SW-3.4. HOLD DOWN INDICATED ON PLAN OCCURS AT BASEMENT AT BASE OF SHEAR WALL.
 - COORDINATE DOOR R.O.'S WITH ARCH DWGS AND DOOR SUBMITTALS.

FOOTING SCHEDULE

Type	Length	Width	Footing Thickness	Reinforcing
F2.0	2'-0"	2'-0"	1'-0"	(3) #4 x 1'-8" EACH WAY, BOTTOM
F2.5	2'-6"	2'-6"	1'-0"	(3) #4 x 2'-2" EACH WAY, BOTTOM

#	Date	Description
1	05/15/23	Scope Changes to Bid Set #1

PERMIT SET
05/15/2023

KUA DORM PROJECT
MAY 12, 2023

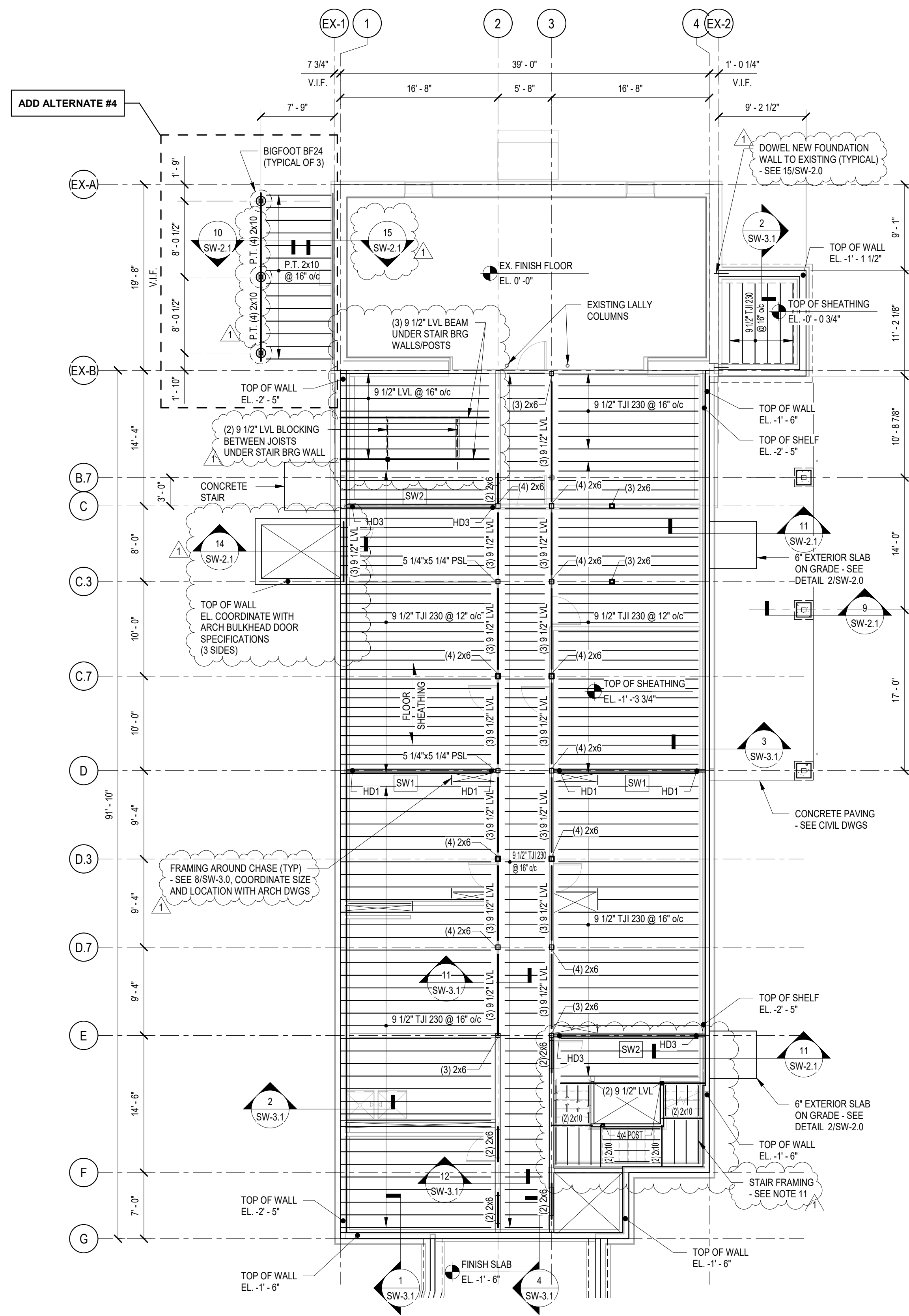
STATE OF NEW HAMPSHIRE
ROBERT NEEDLE, P.E.
No. 09172
LICENSED PROFESSIONAL ENGINEER

KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

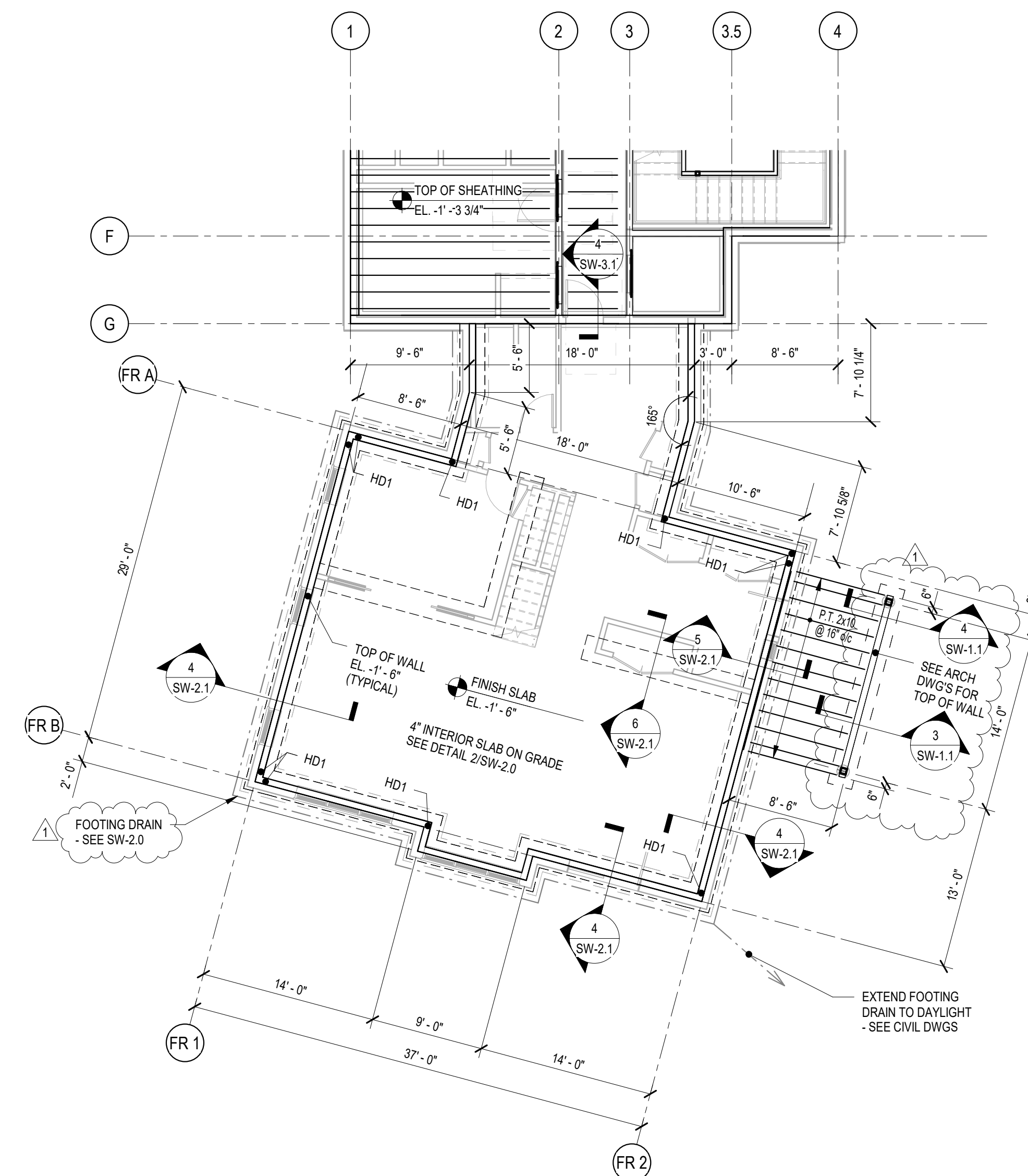
FIRST FLOOR
FRAMING PLAN

SW-1.1



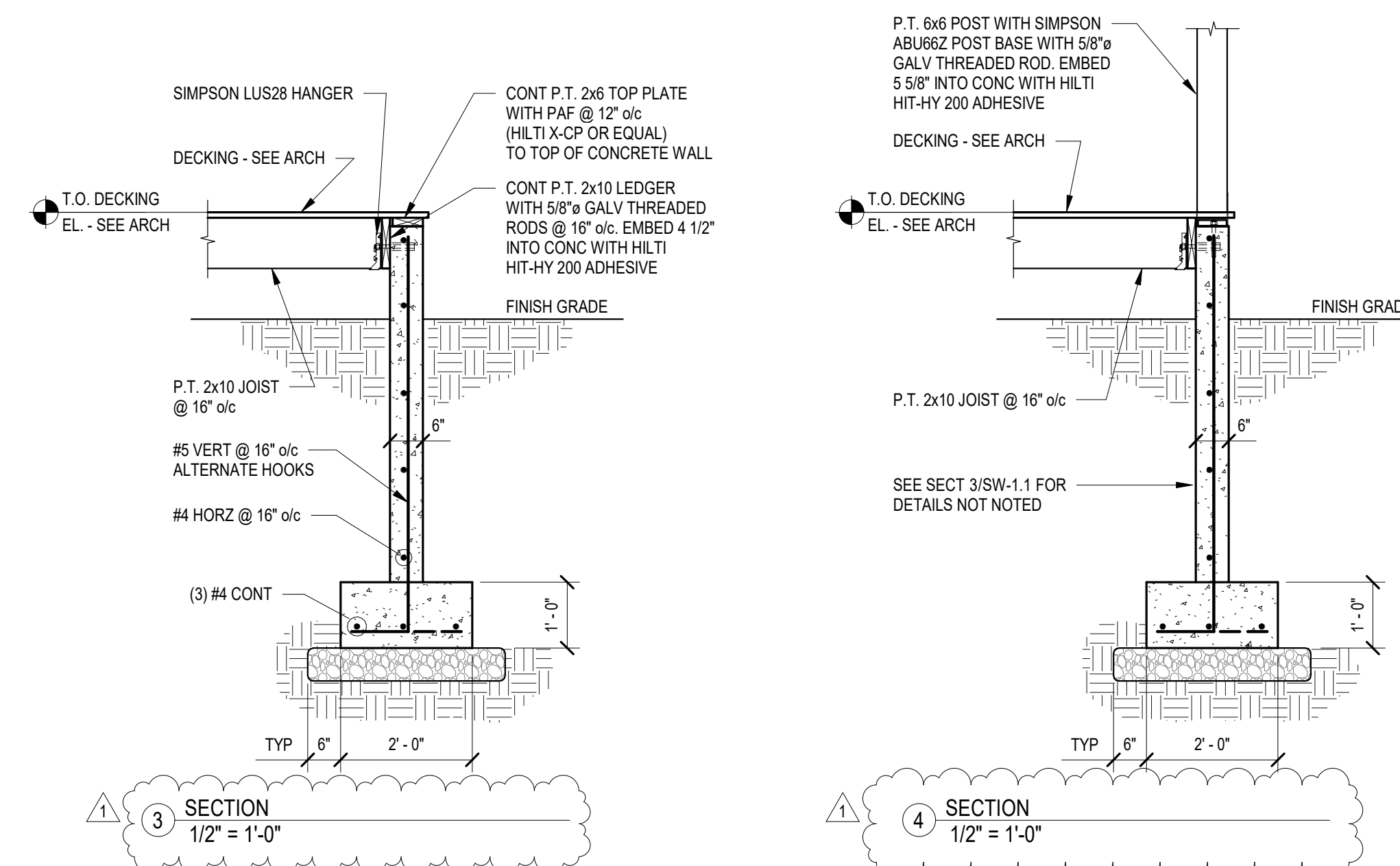
1 FIRST FLOOR FRAMING PLAN
1/8" = 1'-0"

- NOTES:
- ELEVATIONS SHOWN ARE BASED ON EXISTING FIRST FLOOR FINISH FLOOR ELEVATION OF 0'-0".
 - FIRST FLOOR TOP OF SHEATHING ELEVATION = 1'-3 3/4" UNLESS NOTED OTHERWISE.
 - FLOOR SHEATHING SHALL BE 3/4" APA-RATED SHEATHING. FASTEN TO FRAMING WITH 8d COM (0.131" x 2 1/2") SPACED AT 6" o/c AT EDGES AND 12" o/c AT INTERMEDIATE SUPPORTS. SEE DETAIL 6/SW-3.0 FOR LAYOUT.
 - ALL STUD BEARING WALLS SHALL BE 2x6 @ 16" o/c WITH CONT (2) 2x6 TOP PLATE. BEARING WALLS SHOWN SPAN BETWEEN BASEMENT AND FIRST FLOOR.
 - INDICATES SHEAR WALL.
 - "SW" DENOTES SHEAR WALL TYPE. SEE SHEAR WALL SCHEDULE AND DETAILS ON SHEET SW-3.4. SHEAR WALLS AND END POSTS SHOWN SPAN BETWEEN BASEMENT AND FIRST FLOOR.
 - "HD" DENOTES HOLD DOWN. SEE HOLD DOWN SCHEDULE AND DETAILS ON SHEET SW-3.4. HOLD DOWN INDICATED ON PLAN OCCURS AT FIRST FLOOR AT BASE OF SHEAR WALL.
 - ALL HEADERS TO BE (2) 2x6 UNLESS NOTED OTHERWISE.
 - ALL HEADERS TO HAVE SINGLE JACK (J) STUD AND SINGLE KING (K) STUD UNLESS NOTED OTHERWISE. "J" + "K" INDICATE NUMBER OF 2x6 JACK AND KING STUDS, RESPECTIVELY. REQUIRED.
 - ALL COLUMNS/POSTS SHALL HAVE A CONTINUOUS LOAD PATH FROM FRAMING MEMBER TO FOUNDATION (OR TRANSFER BEAM (BLOCK AS REQUIRED)).
 - STAIR STRINGERS SHALL BE CUT FROM 1 3/4"x11 1/4" LVL AT 16" o/c WITH SIMPSON L590 EACH SIDE. TOP AND BOTTOM OF STAIR RUN. EFFECTIVE DEPTH AT TREAD NOTCHES SHALL BE 5 1/2" MIN. LANDING FRAMING TO BE 2x10 AT 16" o/c WITH SIMPSON LUS28 HANGERS. COORDINATE STAIR AND LANDING LAYOUT WITH ARCH DRAWINGS.
 - COORDINATE DOOR AND WINDOW R.O.'S WITH ARCH DWGS AND DOOR AND WINDOW SUBMITTALS.
 - "BF24" INDICATES BIGFOOT SYSTEMS BF24 CONCRETE FOOTING.
 - "TOP OF WALL" DENOTES TOP OF FOUNDATION WALL ELEVATION.
 - "TOP OF SHELF" DENOTES TOP OF FOUNDATION WALL SHELF ELEVATION.



2 FACULTY RESIDENCE FOUNDATION PLAN
1/8" = 1'-0"

- NOTES:
- ELEVATIONS SHOWN ARE BASED ON EXISTING FIRST FLOOR FINISH FLOOR ELEVATION OF 0'-0".
 - "TOP OF WALL" DENOTES TOP OF FOUNDATION WALL ELEVATION.
 - "HD" DENOTES HOLD DOWN. SEE HOLD DOWN SCHEDULE AND DETAILS SHEET SW-3.4. HOLD DOWN INDICATED ON PLAN OCCURS AT FIRST FLOOR AT BASE OF SHEAR WALL.
 - COORDINATE DOOR R.O.'S WITH ARCH DWGS AND DOOR SUBMITTALS.
 - SEE ARCH DWGS FOR WOOD DECKING AT PORCH.



REVISIONS:

#	Date	Description
1	05/15/23	Scope Changes to Bid Set #1

PERMIT SET
05/15/2023

KUA DORM PROJECT
MAY 12, 2023

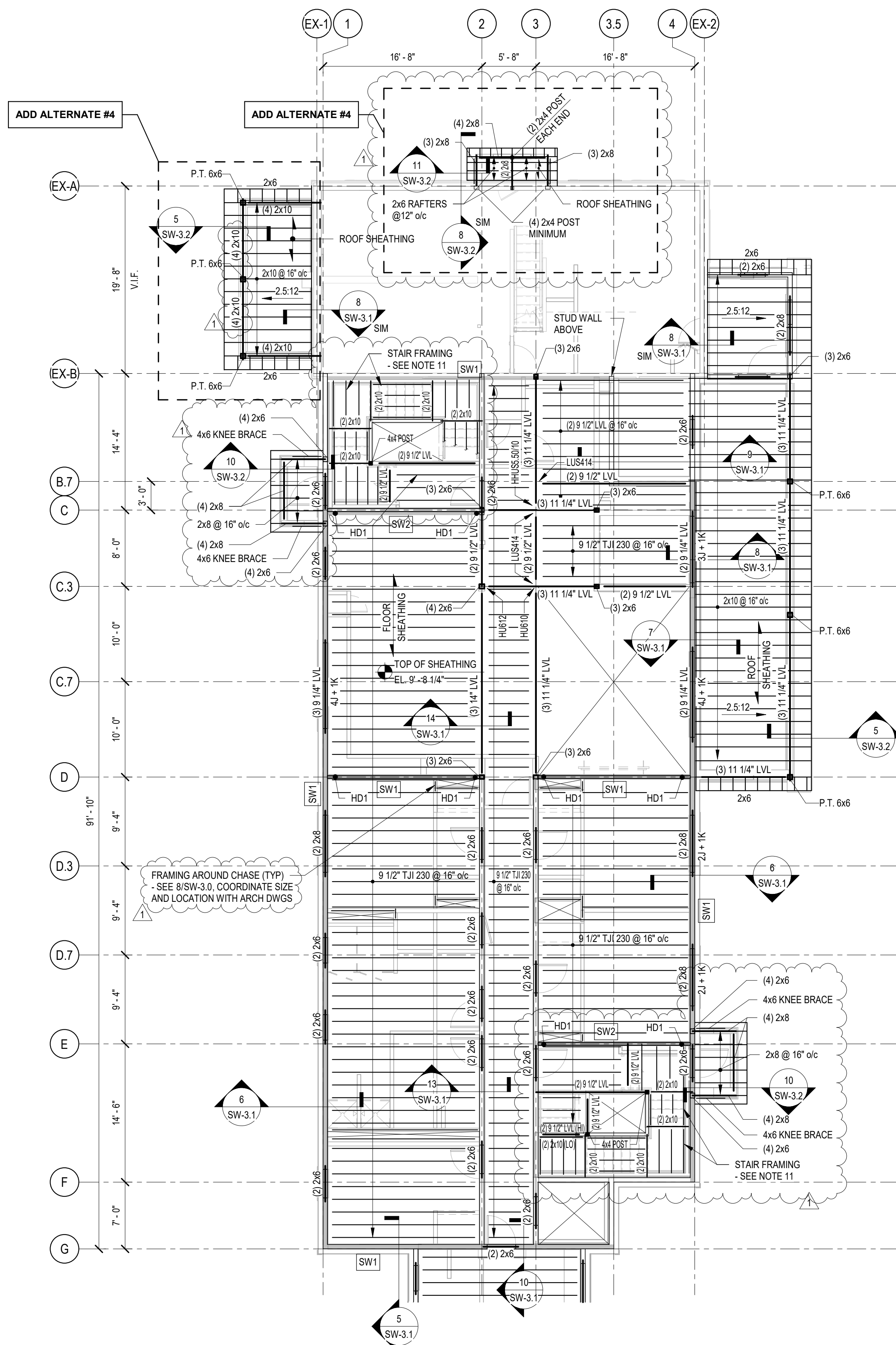


KUA
KILTON/WELCH
DORMITORIES

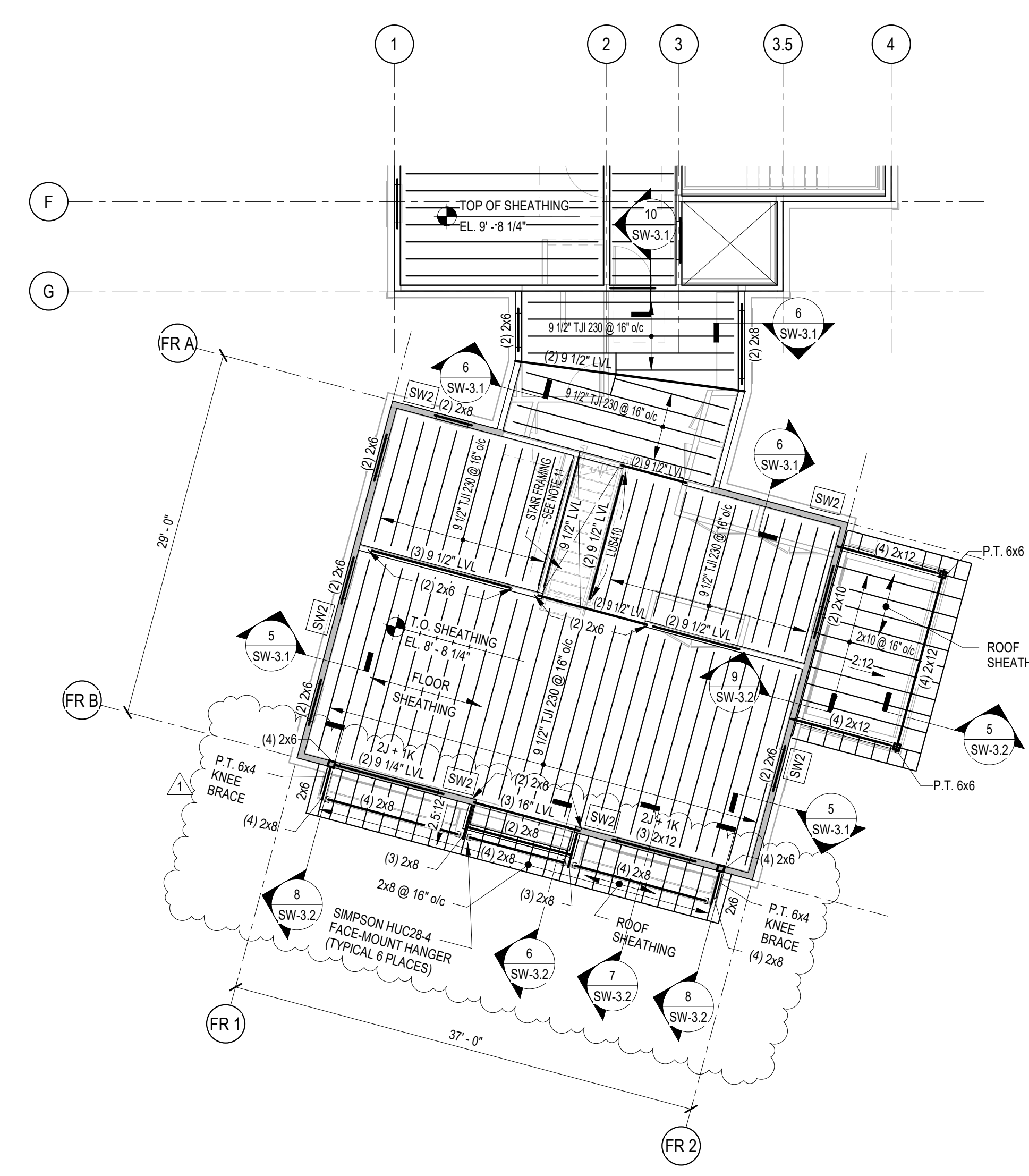
Main Street,
Meriden, NH 03770

SECOND FLOOR
FRAMING PLAN

SW-1.2



- 1 SECOND FLOOR FRAMING PLAN**
1/8" = 1'-0"
- NOTES:
- ELEVATIONS SHOWN ARE BASED ON EXISTING FIRST FLOOR FINISH FLOOR ELEVATION OF 0' - 0".
 - SECOND FLOOR TOP OF SHEATHING ELEVATION = 9' - 8 1/4" UNLESS NOTED OTHERWISE.
 - FLOOR SHEATHING SHALL BE 3/4" APA-RATED SHEATHING. ROOF SHEATHING SHALL BE 5/8" APA-RATED SHEATHING. FASTEN TO FRAMING WITH 8d COM (0.131" x 2 1/2") SPACED AT 6" o/c AT EDGES AND 12" o/c AT INTERMEDIATE SUPPORTS. SEE DETAIL 6/SW-3.0 FOR LAYOUT.
 - ALL STUD BEARING WALLS SHALL BE 2x6 @ 16" o/c WITH CONT (2) 2x6 TOP PLATE. BEARING WALLS SHOWN SPAN BETWEEN FIRST FLOOR AND SECOND FLOOR.
 - INDICATES SHEAR WALL.
 - "SW" DENOTES SHEAR WALL TYPE. SEE SHEAR WALL SCHEDULE AND DETAILS ON SHEET SW-3.4. SHEAR WALLS AND END POSTS SHOWN SPAN BETWEEN FIRST FLOOR AND SECOND FLOOR.
 - "HD" DENOTES HOLD DOWN. SEE HOLD DOWN SCHEDULE AND DETAILS ON SHEET SW-3.4. HOLD DOWN INDICATED ON PLAN OCCURS AT SECOND FLOOR AT BASE OF SHEAR WALL.
 - ALL HEADERS TO BE (2) 2x6 UNLESS NOTED OTHERWISE.
 - ALL HEADERS TO HAVE SINGLE JACK (J) STUD AND SINGLE KING (K) STUD UNLESS NOTED OTHERWISE. "J" + "K" INDICATE NUMBER OF 2x6 JACK AND KING STUDS, RESPECTIVELY, REQUIRED.
 - ALL COLUMNS/POSTS SHALL HAVE A CONTINUOUS LOAD PATH FROM FRAMING MEMBER TO FOUNDATION OR TRANSFER BEAM (BLOCKS REQUIRED).
 - STAIR STRINGERS SHALL BE CUT FROM 1 3/4"x11 1/4" LVL AT 16" o/c WITH SIMPSON L890 EACH SIDE. TOP AND BOTTOM OF STAIR RUN. EFFECTIVE DEPTH AT TREAD NOTCHES SHALL BE 5 1/2" MIN. LANDING FRAMING TO BE 2x10 AT 16" o/c WITH SIMPSON LUS28 HANGERS. COORDINATE STAIR AND LANDING LAYOUT WITH ARCH DRAWINGS.
 - SIMPSON HANGERS INDICATED ON PLAN.
 - SEE ARCH DRAWINGS FOR PORCH AND CANOPY BEAM ELEVATIONS.



- 2 FACULTY RESIDENCE SECOND FLOOR FRAMING PLAN**
1/8" = 1'-0"
- NOTES:
- ELEVATIONS SHOWN ARE BASED ON EXISTING FIRST FLOOR FINISH FLOOR ELEVATION OF 0' - 0".
 - SECOND FLOOR TOP OF SHEATHING ELEVATION = 9' - 8 1/4" UNLESS NOTED OTHERWISE.
 - FLOOR SHEATHING SHALL BE 3/4" APA-RATED SHEATHING. ROOF SHEATHING SHALL BE 5/8" APA-RATED SHEATHING. FASTEN TO FRAMING WITH 8d COM (0.131" x 2 1/2") SPACED AT 6" o/c AT EDGES AND 12" o/c AT INTERMEDIATE SUPPORTS. SEE DETAIL 6/SW-3.0 FOR LAYOUT.
 - ALL STUD BEARING WALLS SHALL BE 2x6 @ 16" o/c WITH CONT (2) 2x6 TOP PLATE. BEARING WALLS SHOWN SPAN BETWEEN FIRST FLOOR AND SECOND FLOOR.
 - INDICATES SHEAR WALL.
 - "SW" DENOTES SHEAR WALL TYPE. SEE SHEAR WALL SCHEDULE AND DETAILS ON SHEET SW-3.4. SHEAR WALLS AND END POSTS SHOWN SPAN BETWEEN FIRST FLOOR AND SECOND FLOOR.
 - "HD" DENOTES HOLD DOWN. SEE HOLD DOWN SCHEDULE AND DETAILS ON SHEET SW-3.4. HOLD DOWN INDICATED ON PLAN OCCURS AT SECOND FLOOR AT BASE OF SHEAR WALL.
 - ALL HEADERS TO BE (2) 2x6 UNLESS NOTED OTHERWISE.
 - ALL HEADERS TO HAVE SINGLE JACK (J) STUD AND SINGLE KING (K) STUD UNLESS NOTED OTHERWISE. "J" + "K" INDICATE NUMBER OF 2x6 JACK AND KING STUDS, RESPECTIVELY, REQUIRED.
 - ALL COLUMNS/POSTS SHALL HAVE A CONTINUOUS LOAD PATH FROM FRAMING MEMBER TO FOUNDATION OR TRANSFER BEAM (BLOCKS REQUIRED).
 - STAIR STRINGERS SHALL BE CUT FROM 1 3/4"x11 1/4" LVL AT 16" o/c WITH SIMPSON L890 EACH SIDE. TOP AND BOTTOM OF STAIR RUN. EFFECTIVE DEPTH AT TREAD NOTCHES SHALL BE 5 1/2" MIN. LANDING FRAMING TO BE 2x10 AT 16" o/c WITH SIMPSON LUS28 HANGERS. COORDINATE STAIR AND LANDING LAYOUT WITH ARCH DRAWINGS.
 - SIMPSON HANGERS INDICATED ON PLAN.
 - SEE ARCH DRAWINGS FOR PORCH AND CANOPY BEAM ELEVATIONS.

#	Date	Description
1	05/15/23	Scope Changes to Bid Set #1

PERMIT SET
05/15/2023

KUA DORM PROJECT
MAY 12, 2023

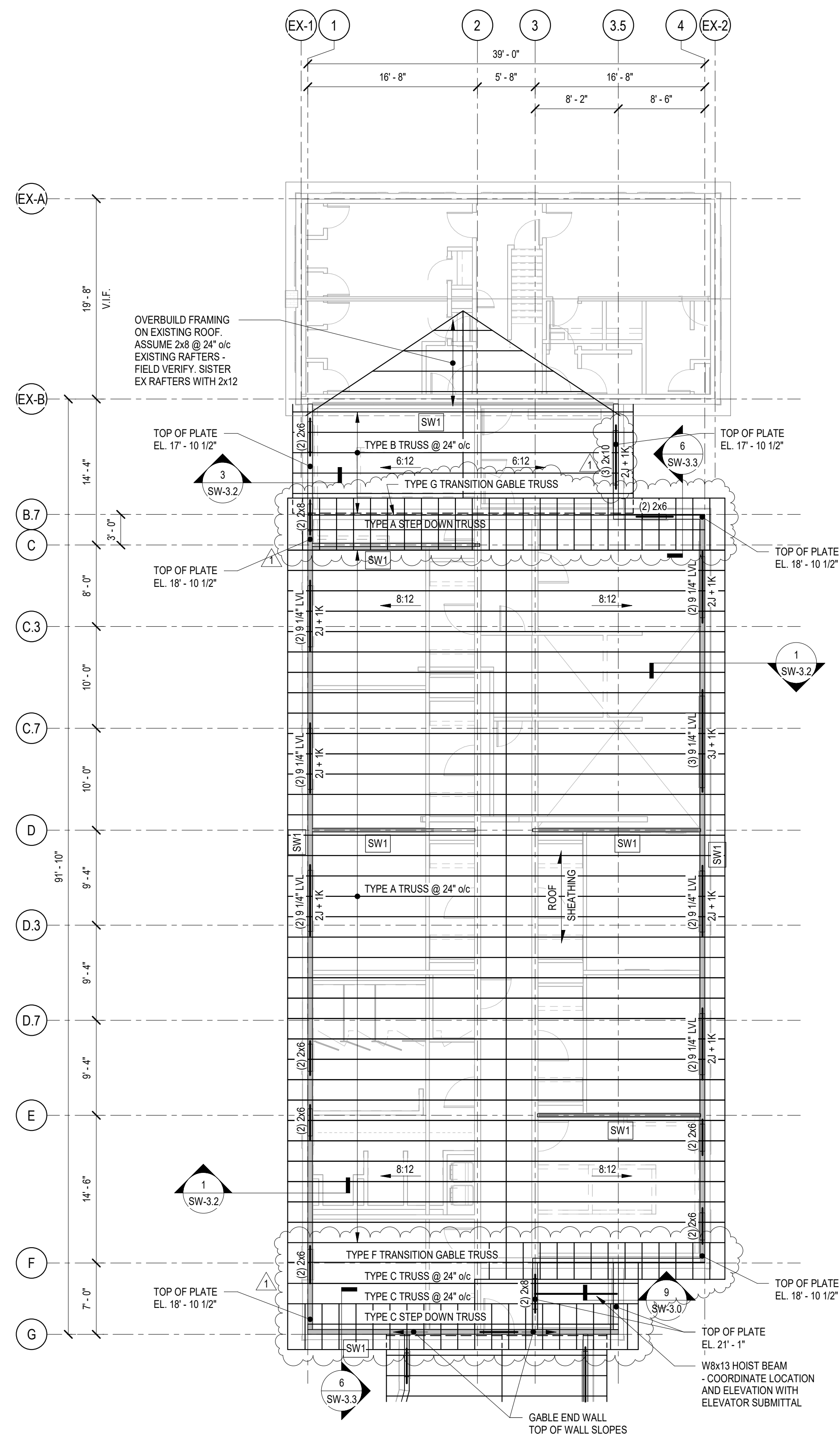


KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

ROOF FRAMING
PLAN

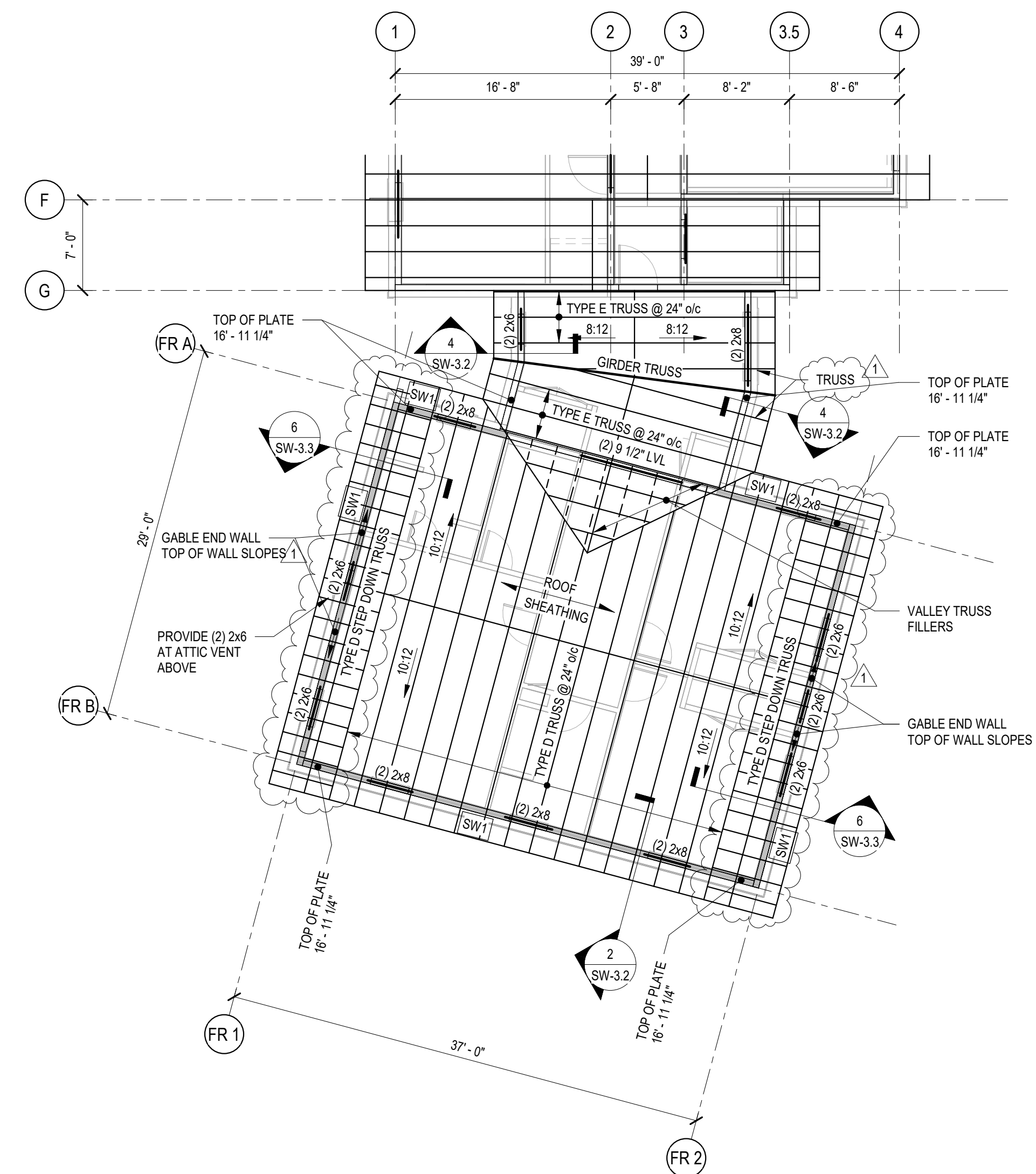
SW-1.3



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

NOTES:

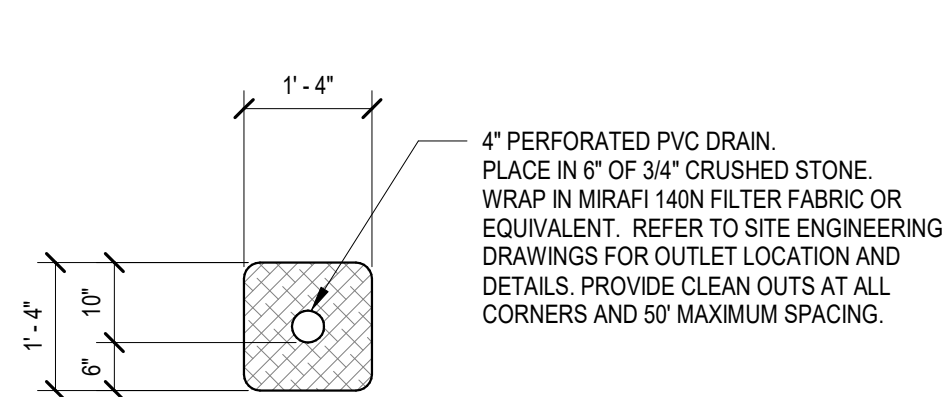
- ELEVATIONS SHOWN ARE BASED ON EXISTING FIRST FLOOR FINISH FLOOR ELEVATION OF 0' - 0".
- ROOF TOP PLATE ELEVATION = SEE PLAN.
- ROOF SHEATHING SHALL BE 5/8" APA-RATED SHEATHING. FASTEN TO FRAMING WITH 8d COM (0.131" x 2 1/2") SPACED AT 6" o/c AT EDGES AND 12" o/c AT INTERMEDIATE SUPPORTS. SEE DETAIL 6/SW-3.0 FOR LAYOUT.
- ALL STUD BEARING WALLS SHALL BE 2x6 @ 16" o/c WITH CONT (2) 2x6 TOP PLATE. BEARING WALLS SHOWN SPAN BETWEEN SECOND FLOOR AND THE ROOF.
- INDICATES SHEAR WALL.
- "SW#" DENOTES SHEAR WALL TYPE. SEE SHEAR WALL SCHEDULE AND DETAILS ON SHEET SW-3.4. SHEAR WALLS AND END POSTS SHOWN SPAN BETWEEN SECOND FLOOR AND THE ROOF.
- ALL HEADERS TO BE (2) 2x6 UNLESS NOTED OTHERWISE.
- ALL HEADERS TO HAVE SINGLE JACK (J) STUD AND SINGLE KING (K) STUD UNLESS NOTED OTHERWISE. #1 + #K INDICATE NUMBER OF 2x6 JACK AND KING STUDS, RESPECTIVELY, REQUIRED.
- ALL COLUMNS/POSTS SHALL HAVE A CONTINUOUS LOAD PATH FROM FRAMING MEMBER TO FOUNDATION OR TRANSFER BEAM (BLOCK AS REQUIRED).
- SEE SHEET SW-3.3 FOR TRUSS DETAILS AND DESIGN LOADS.



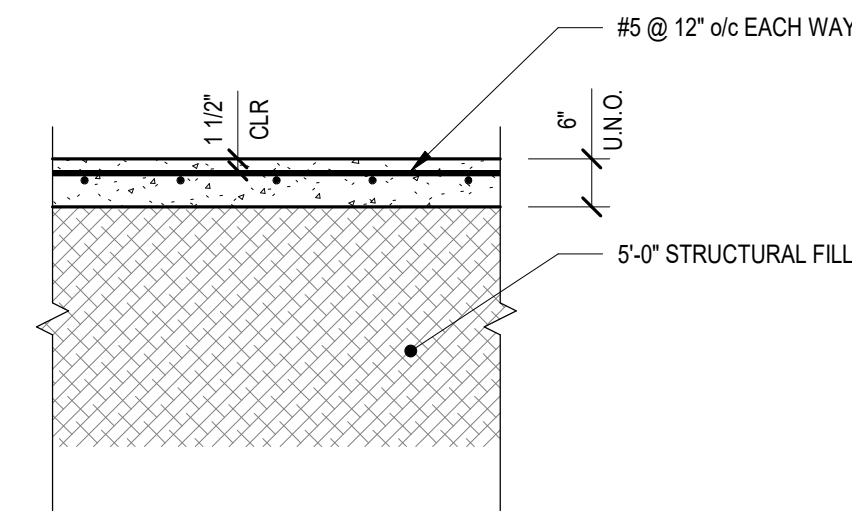
2 FACULTY RESIDENCE ROOF FRAMING PLAN
1/8" = 1'-0"

NOTES:

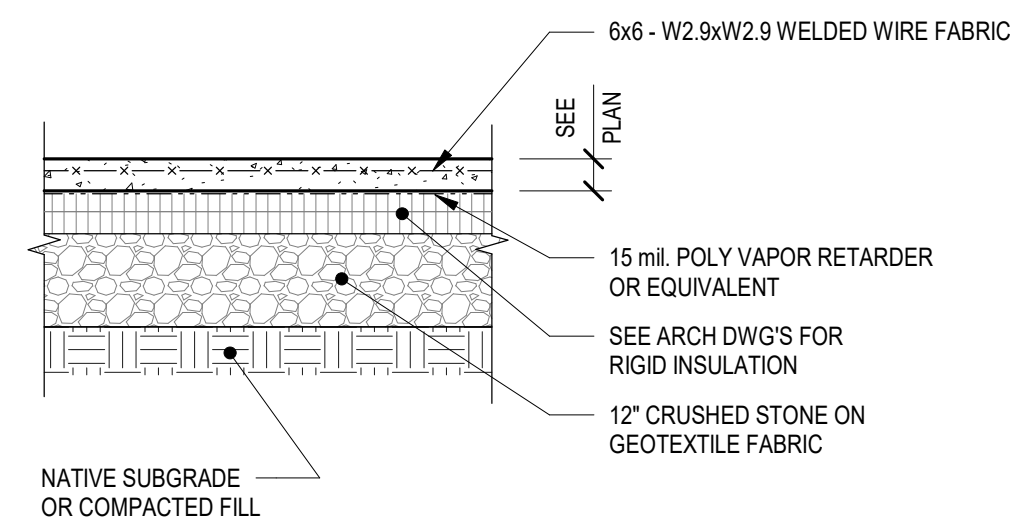
- ELEVATIONS SHOWN ARE BASED ON EXISTING FIRST FLOOR FINISH FLOOR ELEVATION OF 0' - 0".
- ROOF TOP PLATE ELEVATION = SEE PLAN.
- ROOF SHEATHING SHALL BE 5/8" APA-RATED SHEATHING. FASTEN TO FRAMING WITH 8d COM (0.131" x 2 1/2") SPACED AT 6" o/c AT EDGES AND 12" o/c AT INTERMEDIATE SUPPORTS. SEE DETAIL 6/SW-3.0 FOR LAYOUT.
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- INDICATES SHEAR WALL.
- "SW#" DENOTES SHEAR WALL TYPE. SEE SHEAR WALL SCHEDULE AND DETAILS ON SHEET SW-3.4. SHEAR WALLS AND END POSTS SHOWN SPAN BETWEEN SECOND FLOOR AND THE ROOF.
- ALL HEADERS TO BE (2) 2x6 UNLESS NOTED OTHERWISE.
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- ALL COLUMNS/POSTS SHALL HAVE A CONTINUOUS LOAD PATH FROM FRAMING MEMBER TO FOUNDATION OR TRANSFER BEAM (BLOCK AS REQUIRED).
- SEE SHEET SW-3.3 FOR TRUSS DETAILS AND DESIGN LOADS.



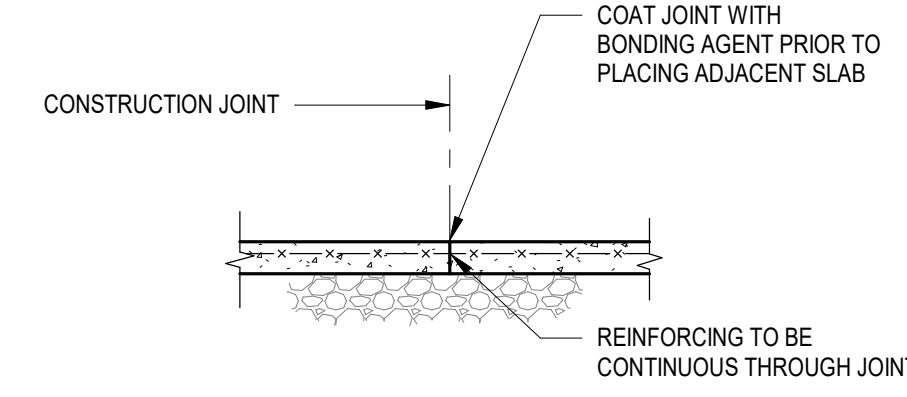
1 TYPICAL FOOTING DRAIN
1/2" = 1'-0"



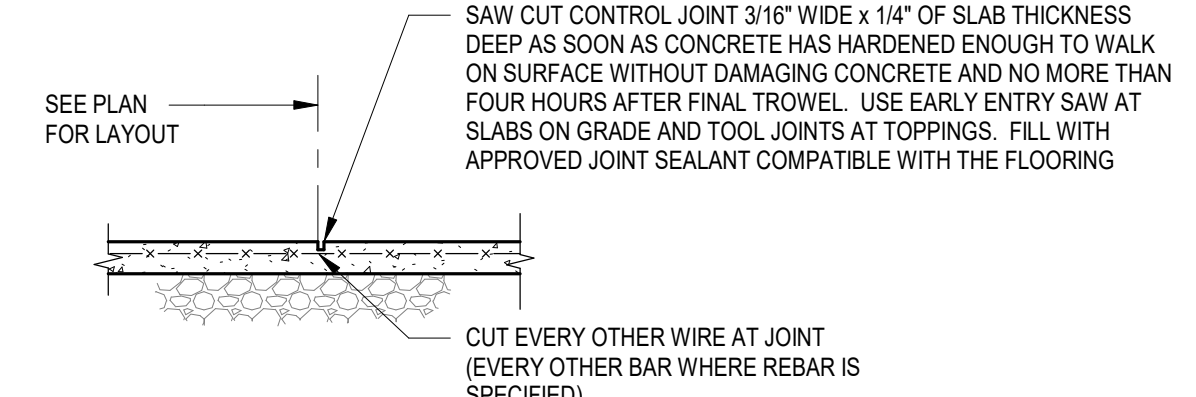
EXTERIOR SLAB-ON-GRADE



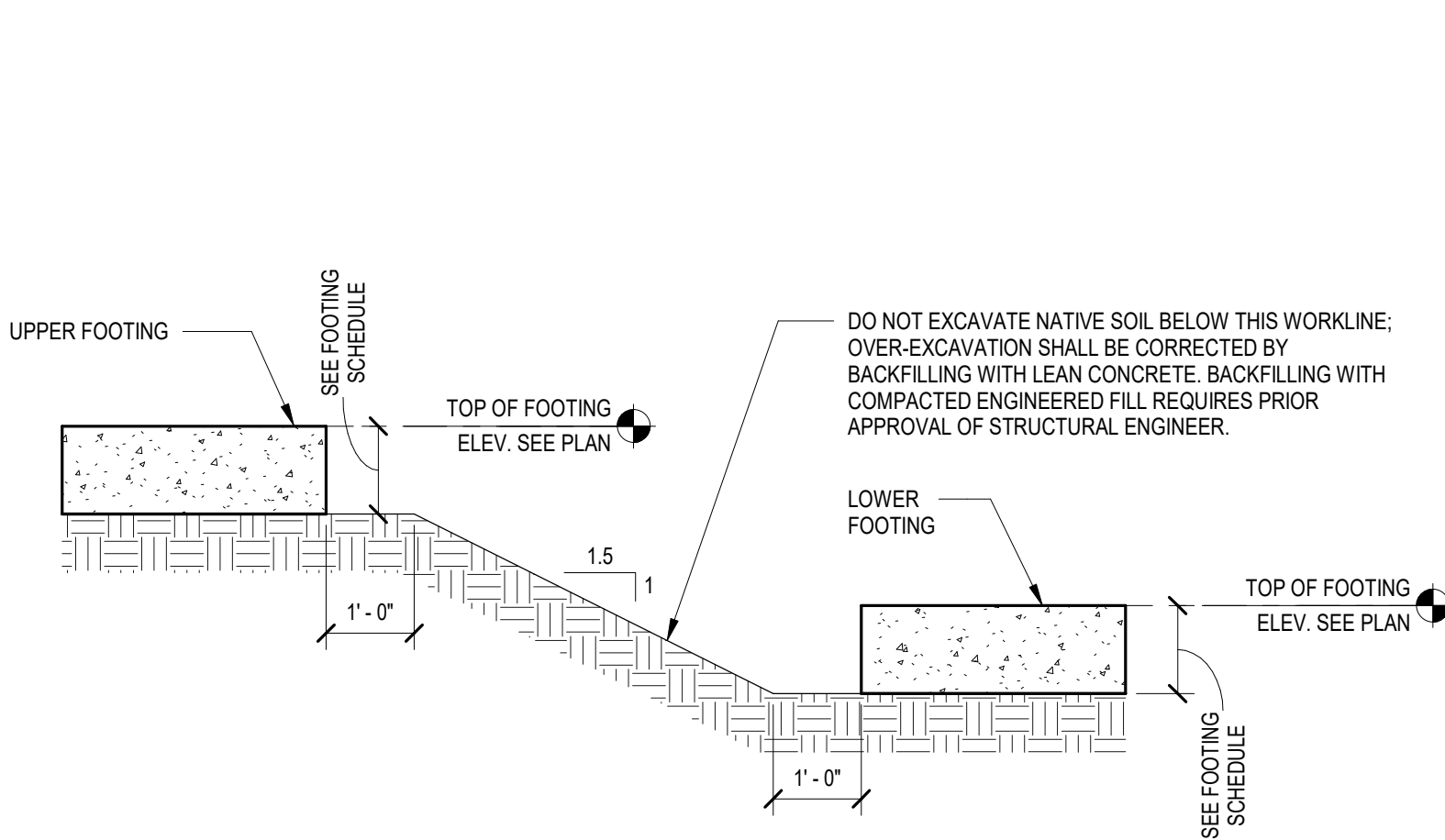
INTERIOR SLAB-ON-GRADE



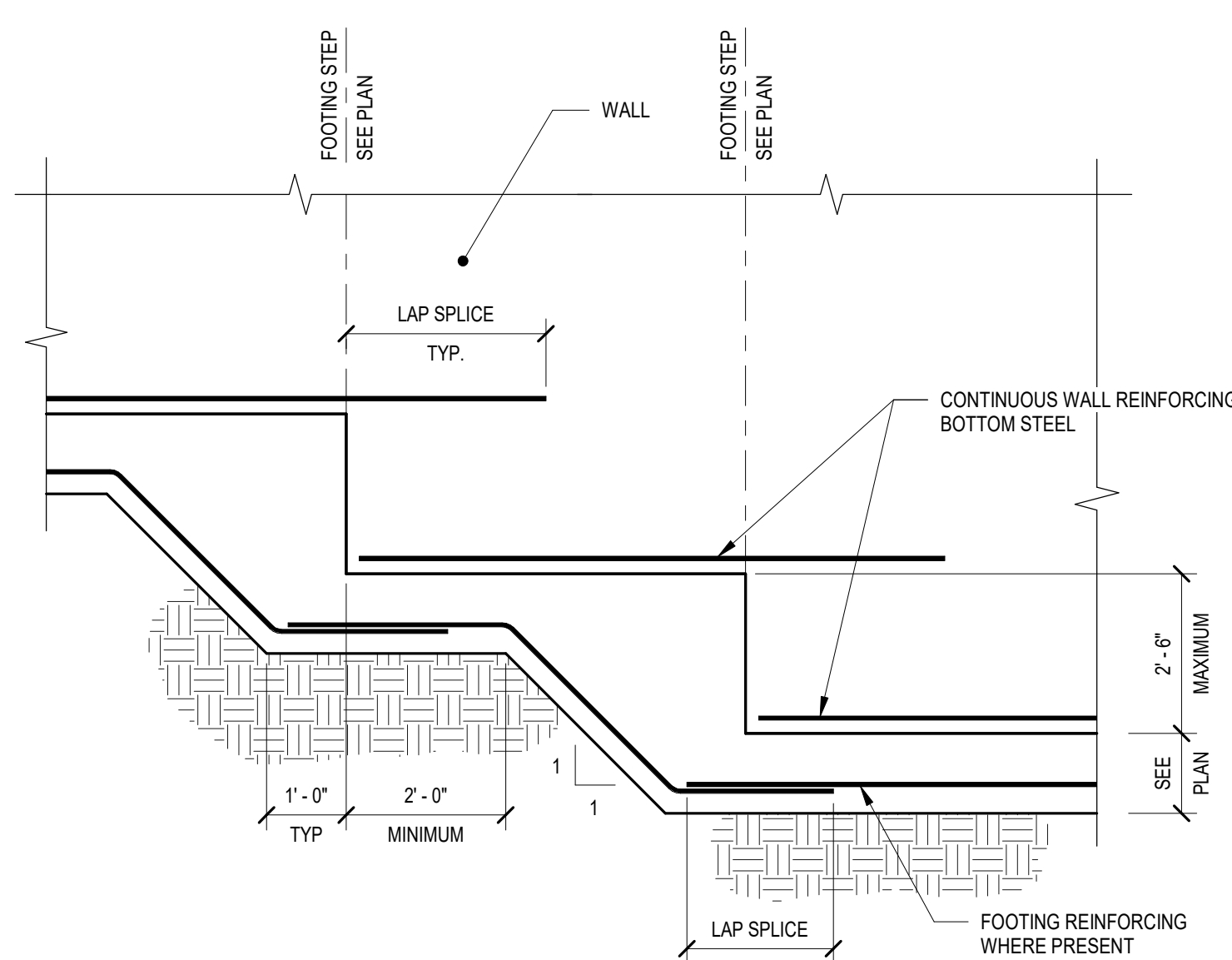
CONSTRUCTION JOINT



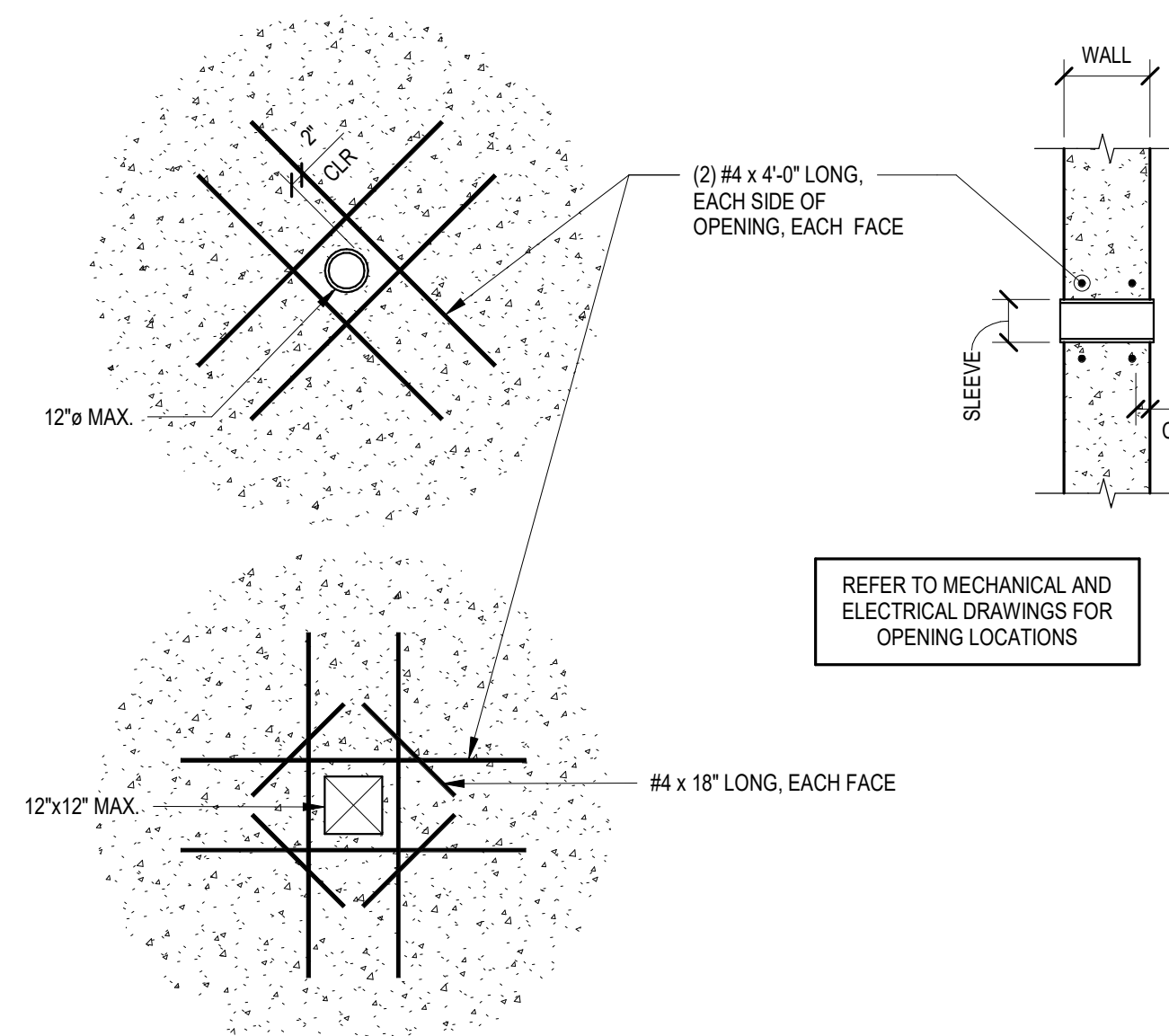
CONTROL JOINT



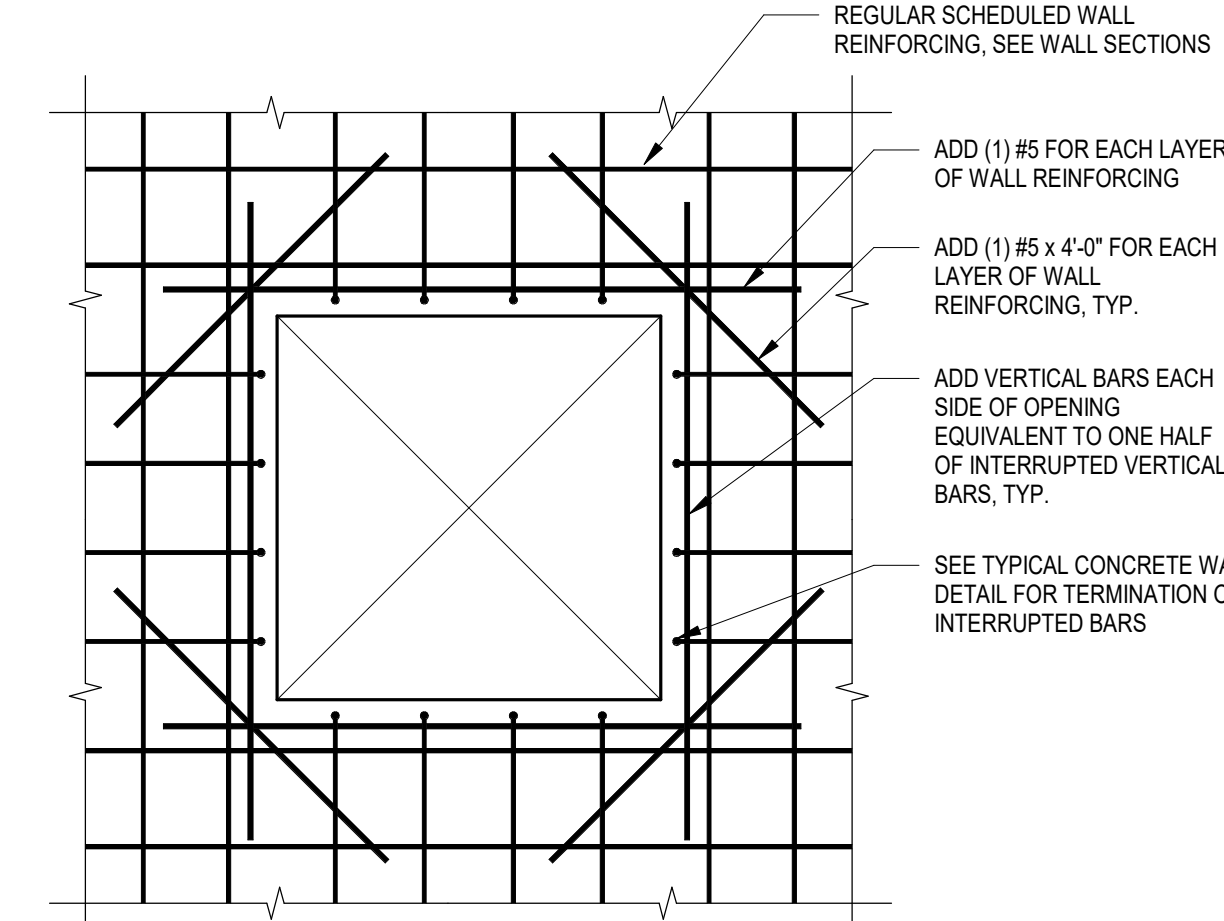
4 TYPICAL EXCAVATION AT ADJACENT FOOTING
1/2" = 1'-0"



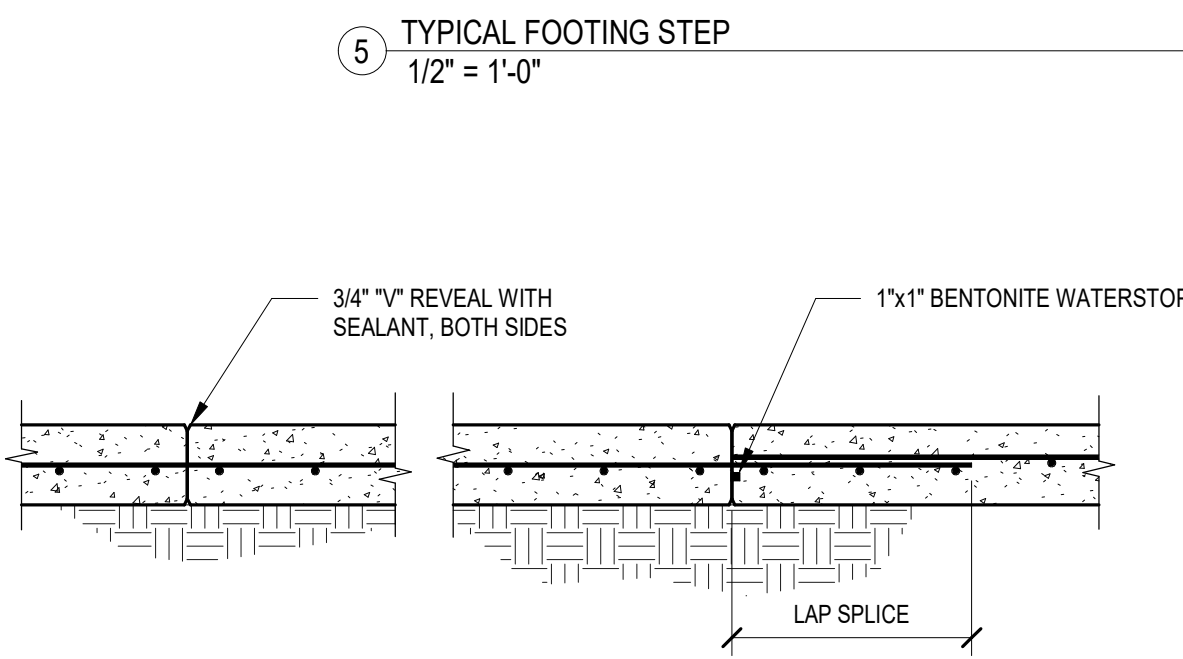
5 TYPICAL FOOTING STEP
1/2" = 1'-0"



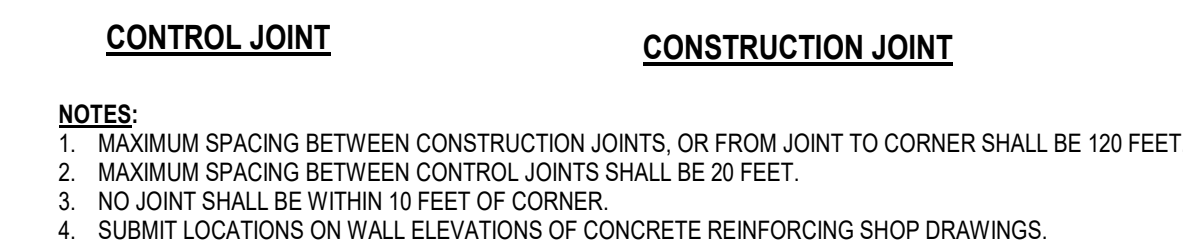
6 TYPICAL CONCRETE WALL OPENINGS
1/2" = 1'-0"



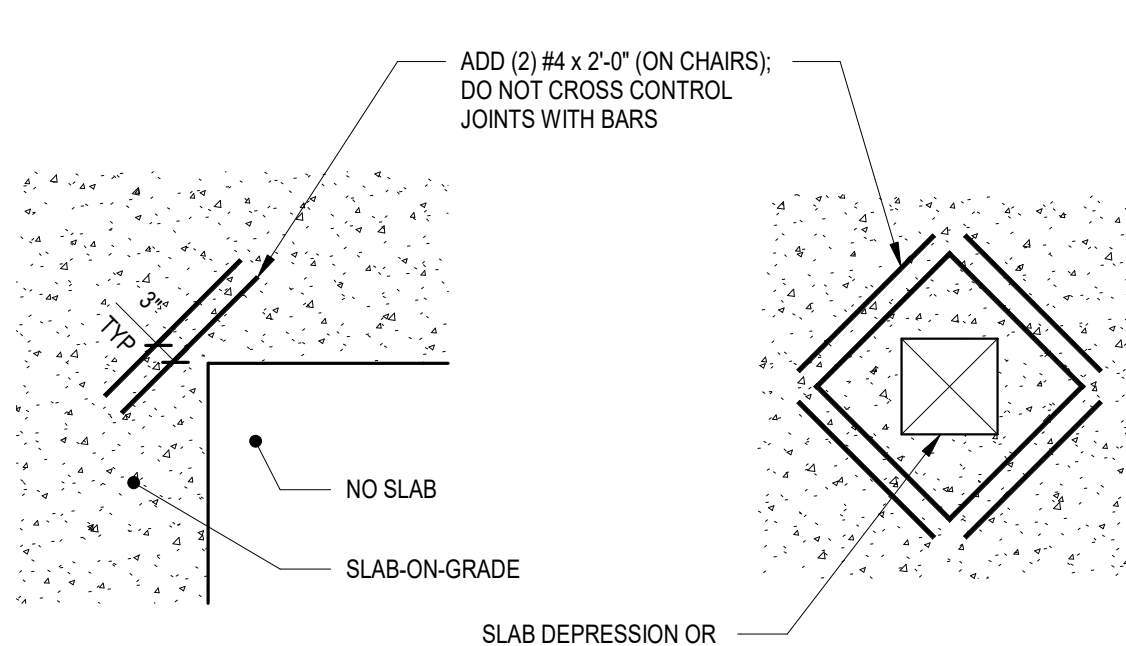
7 TYPICAL CONCRETE WALL OPENING
1/2" = 1'-0"



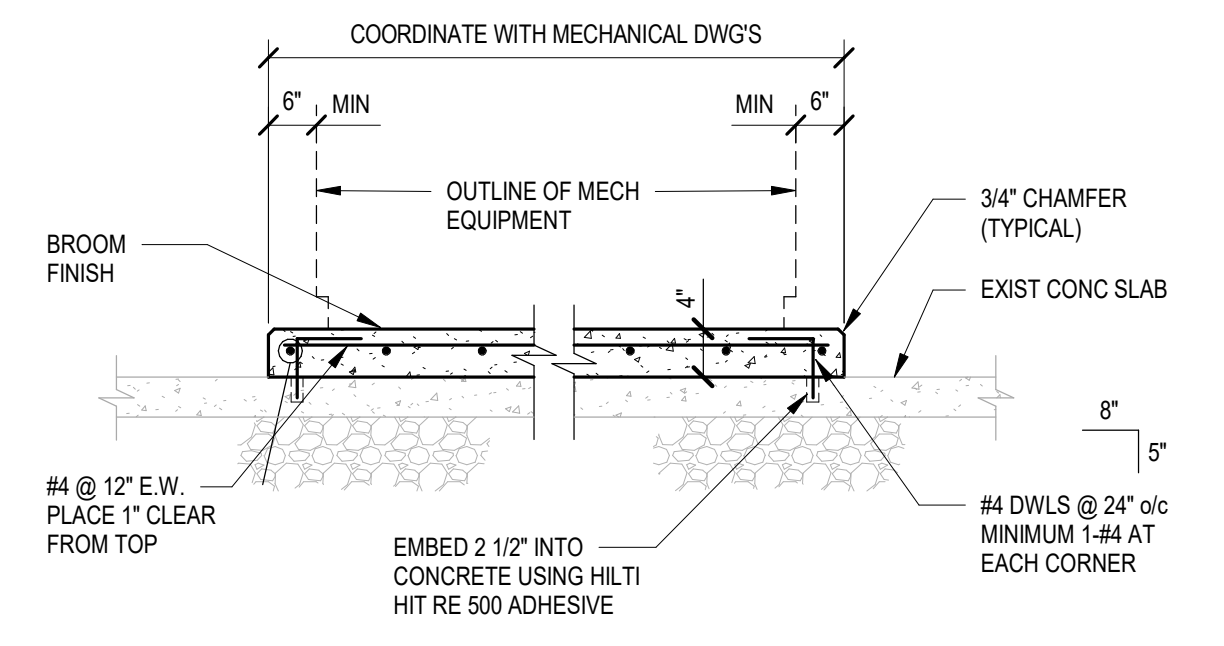
8 TYPICAL CONCRETE WALL END
1/2" = 1'-0"



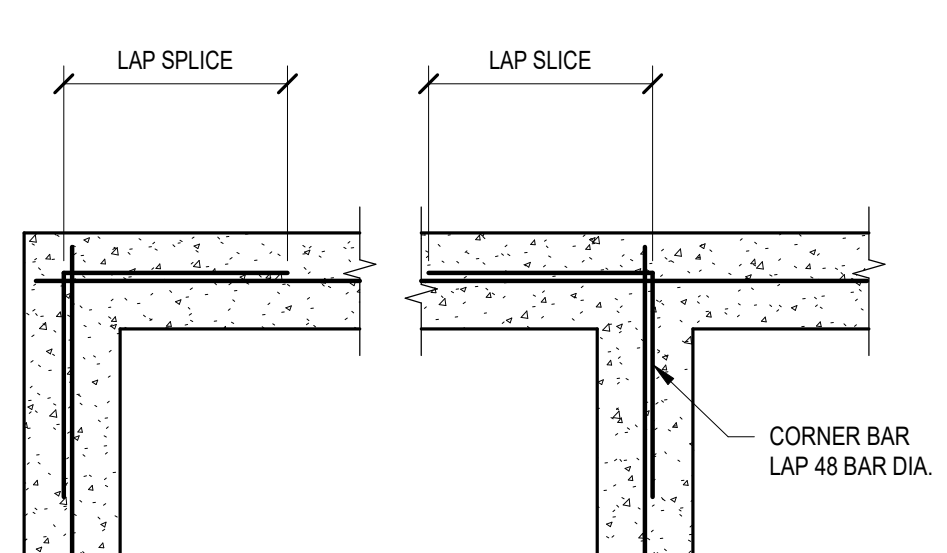
9 TYPICAL CONCRETE WALL JOINTS
1/2" = 1'-0"



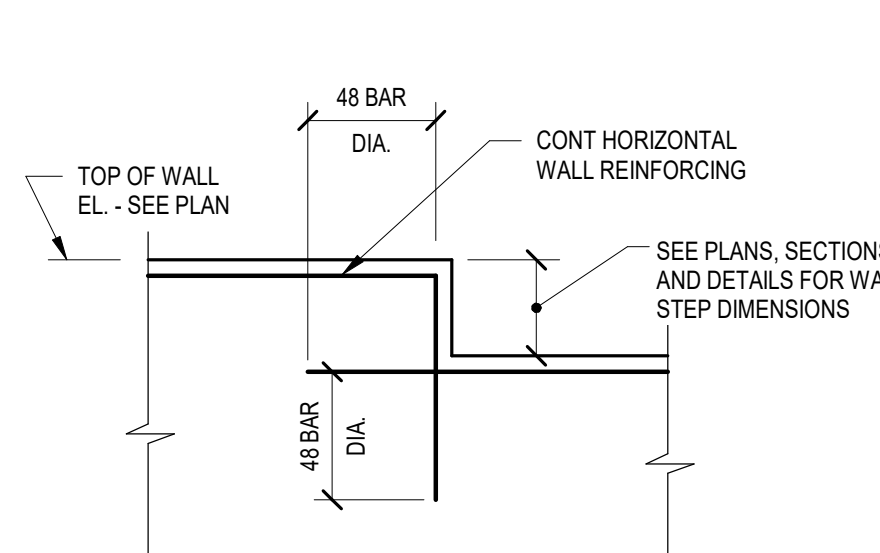
10 TYPICAL RE-ENTRANT CORNERS AT SLAB-ON-GRADE
1/2" = 1'-0"



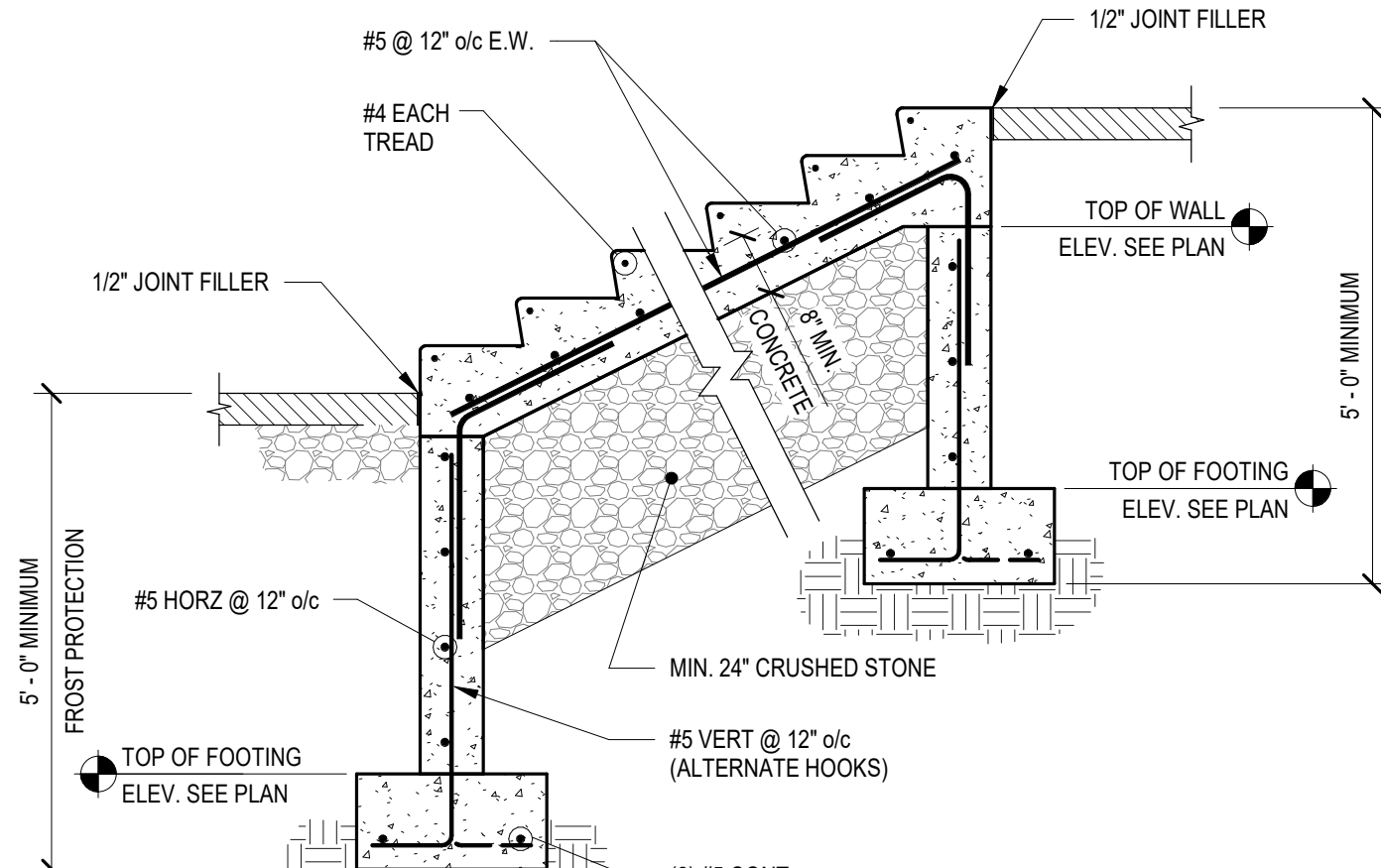
11 TYPICAL INTERIOR EQUIPMENT PAD DETAIL
1/2" = 1'-0"



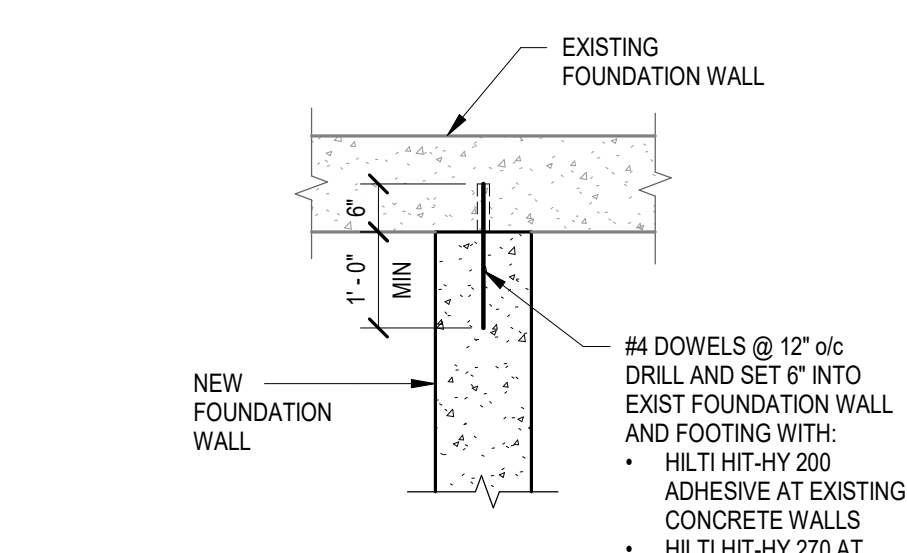
12 TYPICAL WALL CORNER REINFORCING
1/2" = 1'-0"



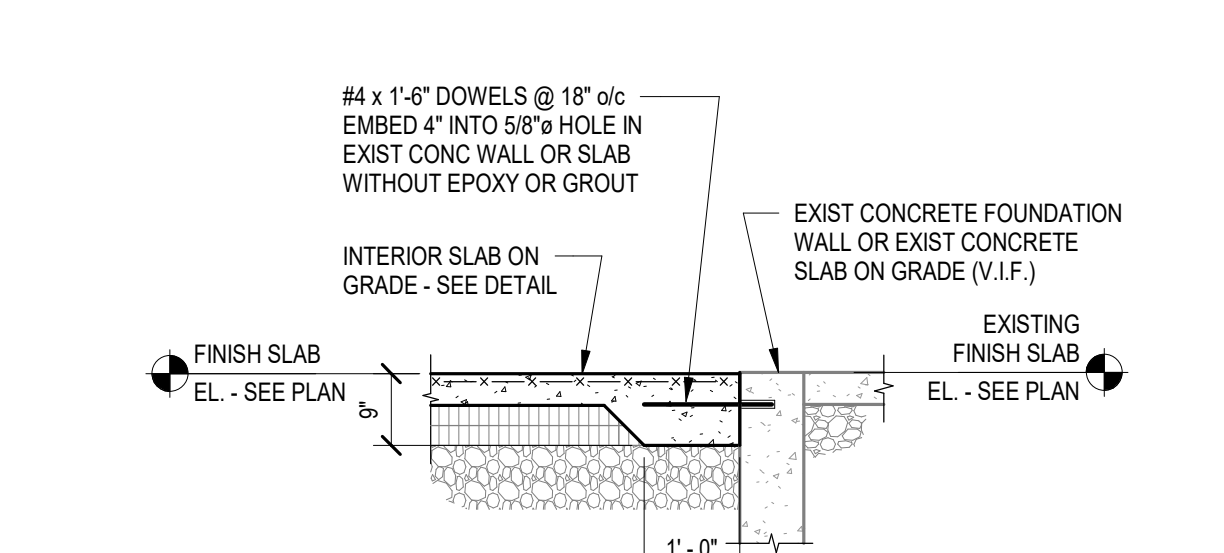
13 TYPICAL WALL STEP DETAIL
1/2" = 1'-0"



14 TYPICAL EXTERIOR STAIR DETAIL
1/2" = 1'-0"



15 TYPICAL JOINT DETAIL OF NEW/EXISTING FOUNDATION WALL
1/2" = 1'-0"



16 TYPICAL JOINT DETAIL OF NEW/EXISTING SLAB
1/2" = 1'-0"

#	Date	Description
1	05/15/23	Scope Changes to Bid Set #1

PERMIT SET
05/15/2023

KUA DORM PROJECT
MAY 12, 2023

ROBERT NEED, P.E.
No. 03172

STATE OF NEW HAMPSHIRE
LICENSED PROFESSIONAL ENGINEER

KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

TYPICAL
FOUNDATION
DETAILS

SW-2.0

#	Date	Description
1	05/15/23	Scope Changes to Bid Set #1

PERMIT SET
05/15/2023

KUA DORM PROJECT
MAY 12, 2023

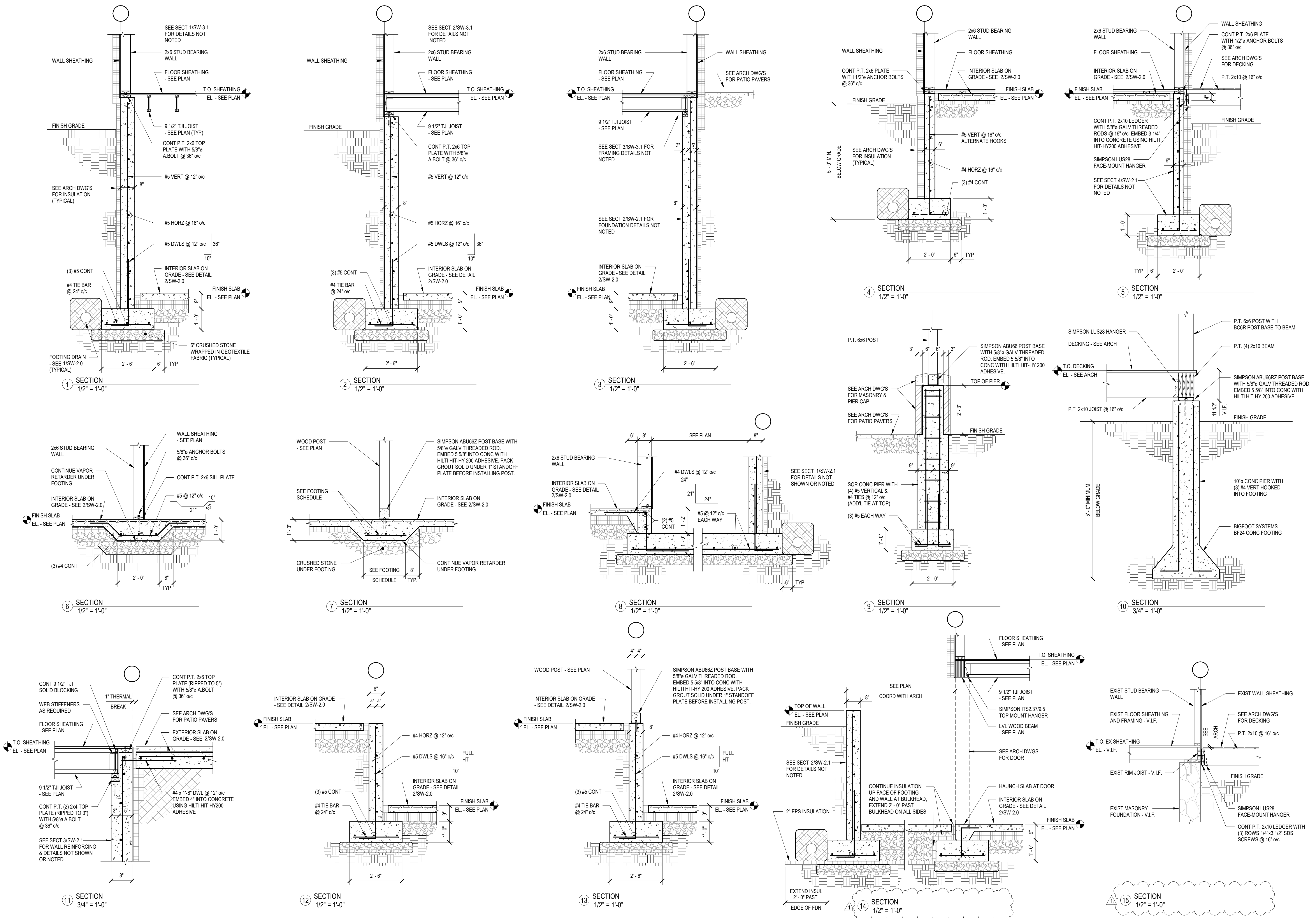
STATE OF NEW HAMPSHIRE
ROBERT NEELD, P.E.
No. 09172
Professional Seal

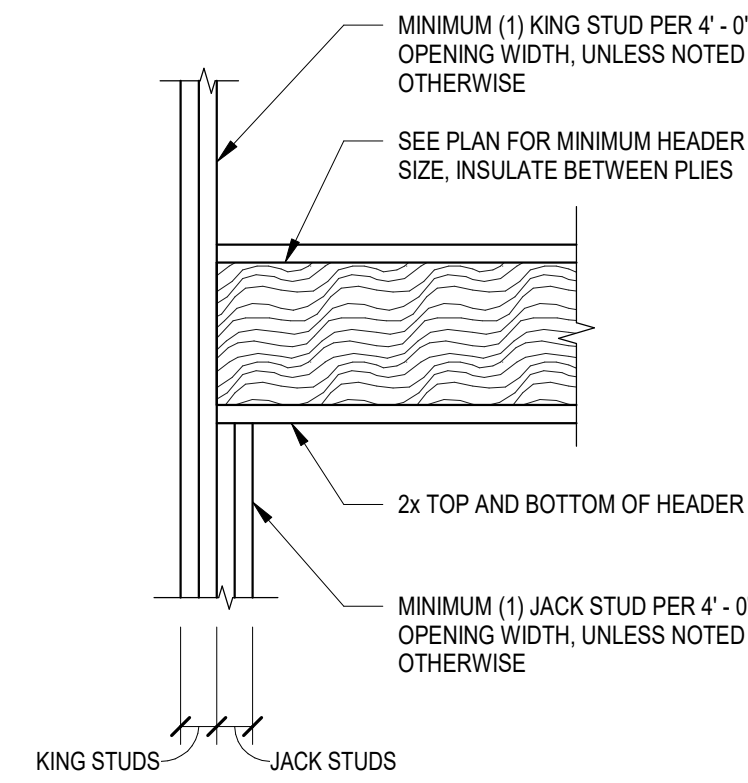
KUA KILTON/WELCH DORMITORIES

Main Street,
Meriden, NH 03770

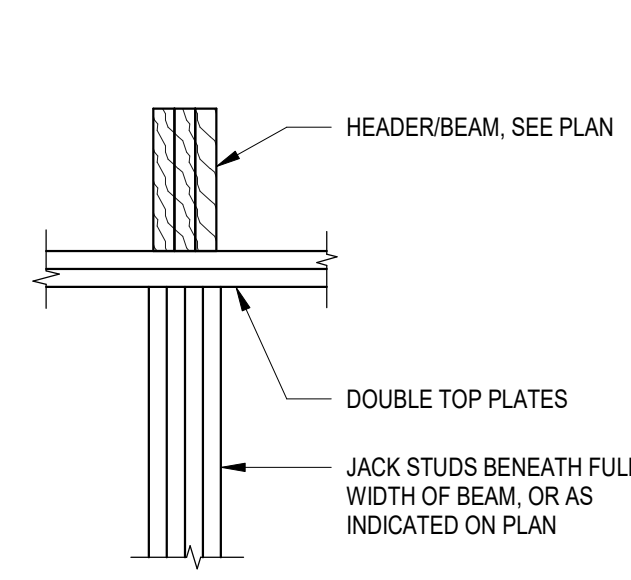
FOUNDATION DETAILS

SW-2.1

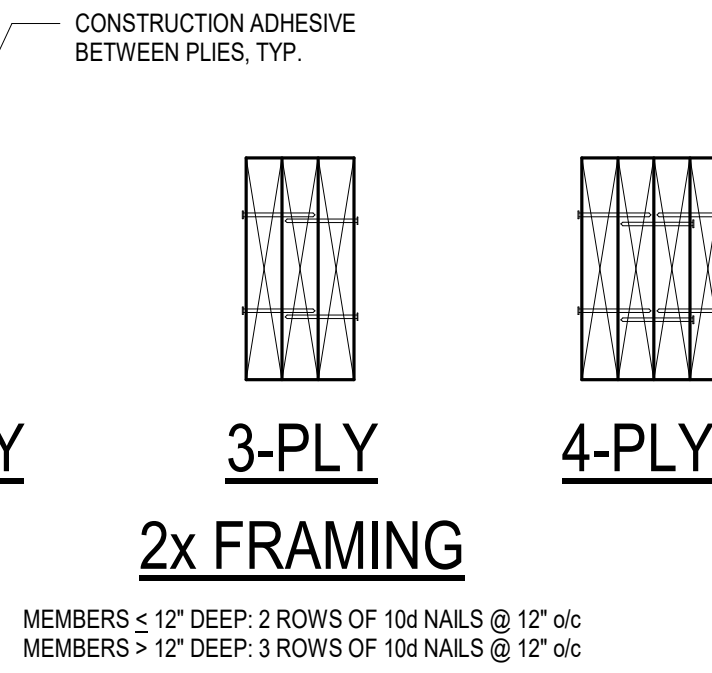
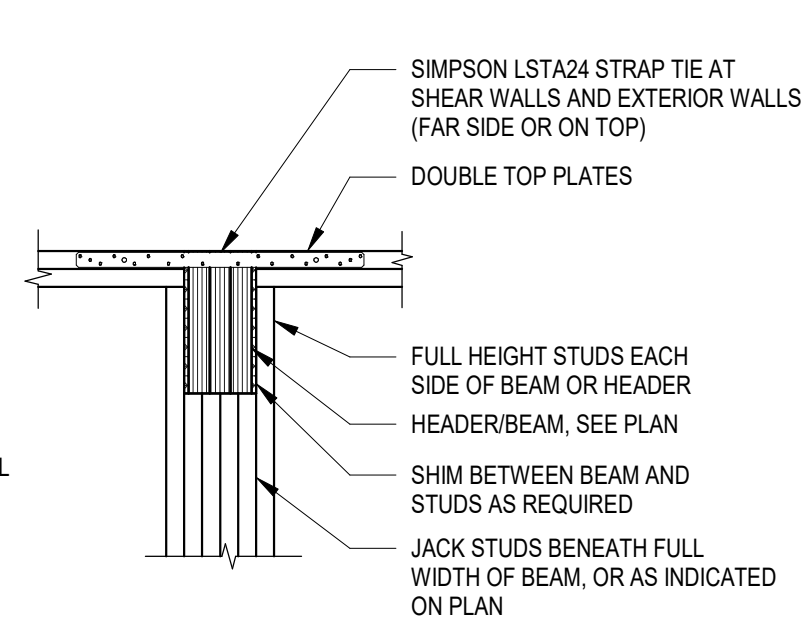




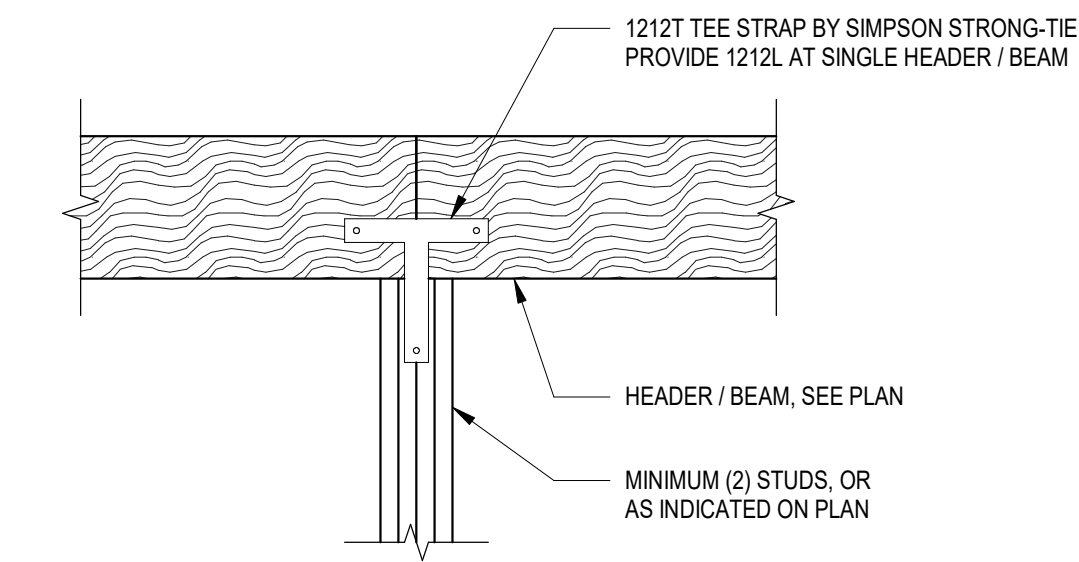
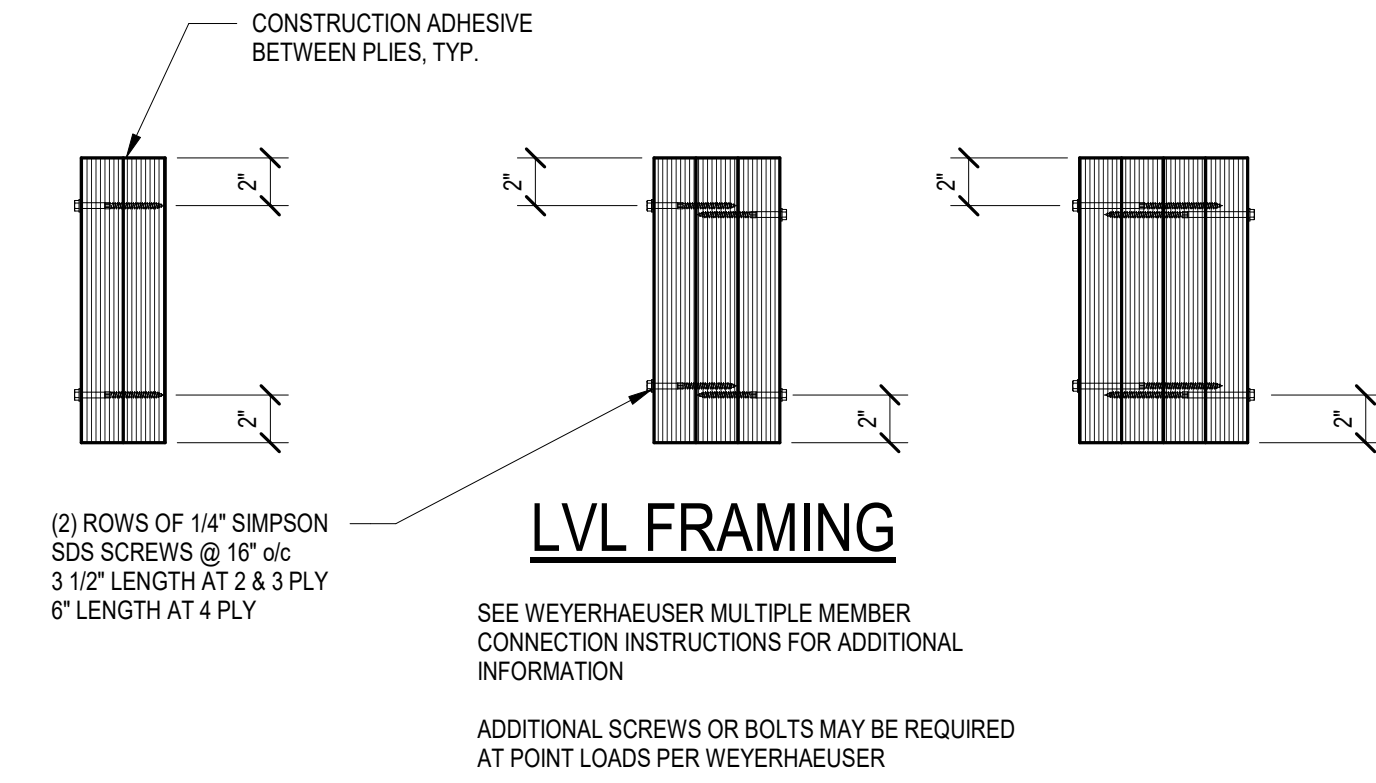
1 TYPICAL WOOD HEADER AT WALL OPENING
3/4" = 1'-0"



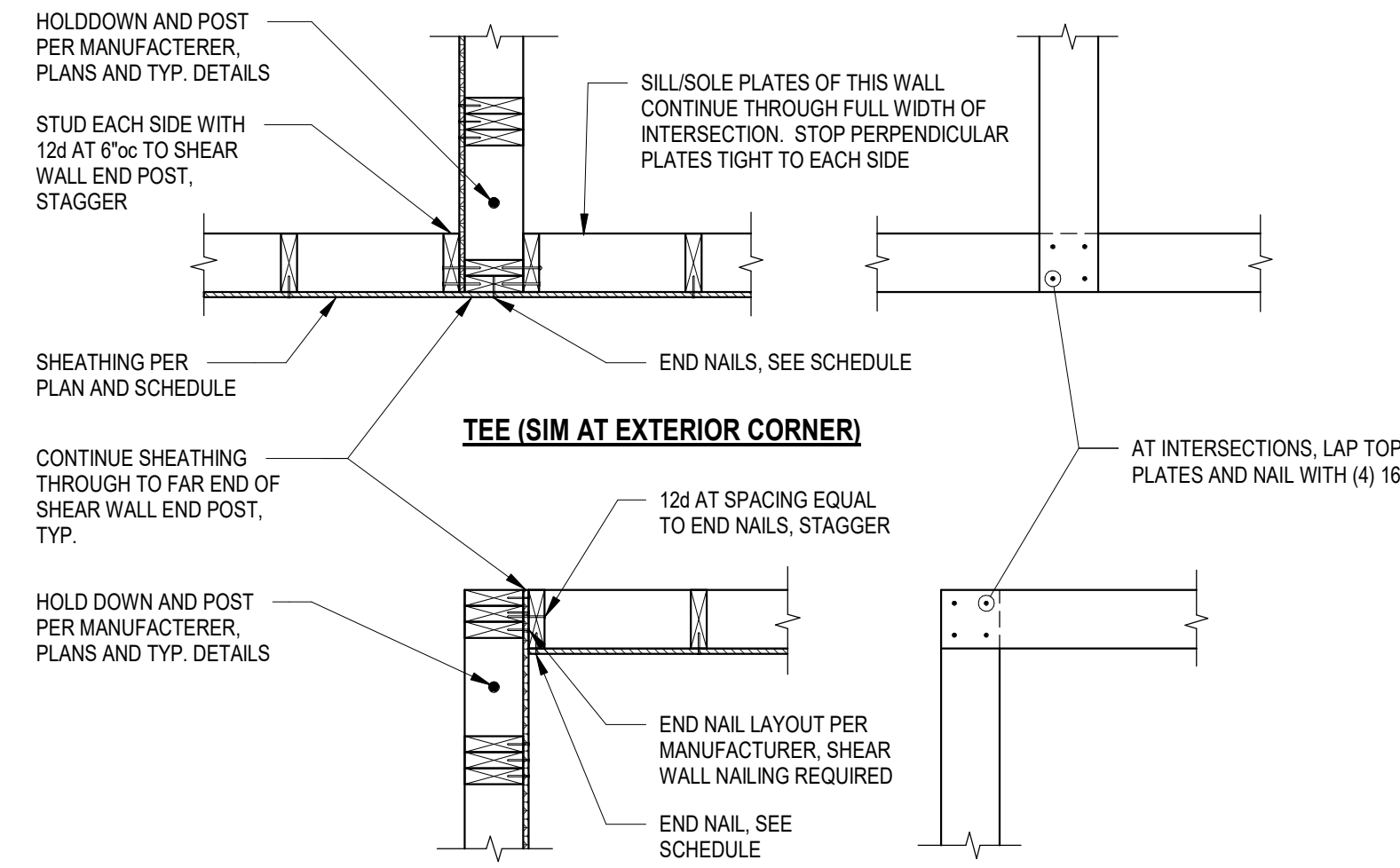
2 TYPICAL WOOD BEAM BEARING PERPENDICULAR TO WALL
3/4" = 1'-0"



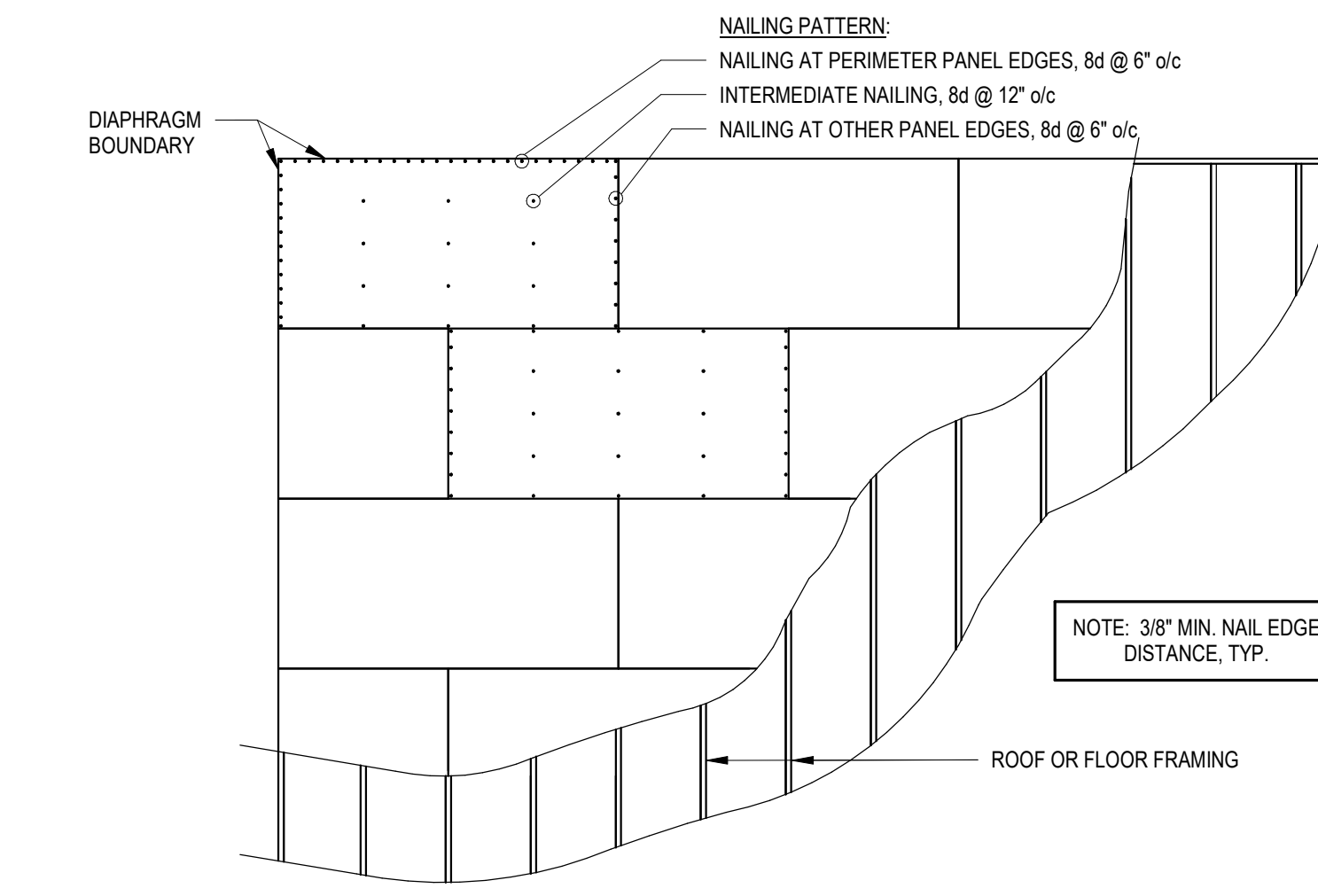
3 TYPICAL MULTI-MEMBER BEAM CONNECTION
1 1/2" = 1'-0"



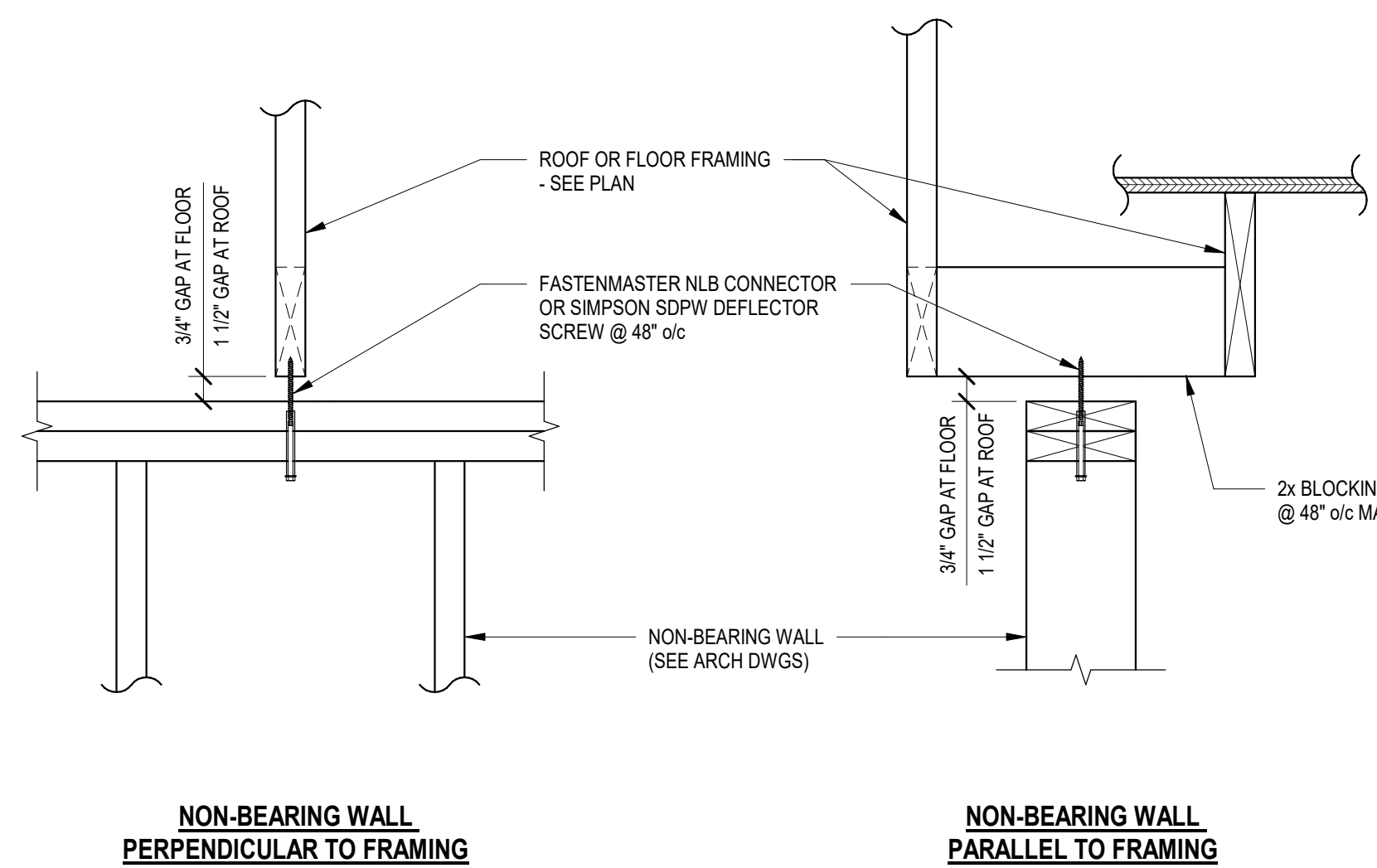
4 TYPICAL WOOD BEAM/HEADER
3/4" = 1'-0"



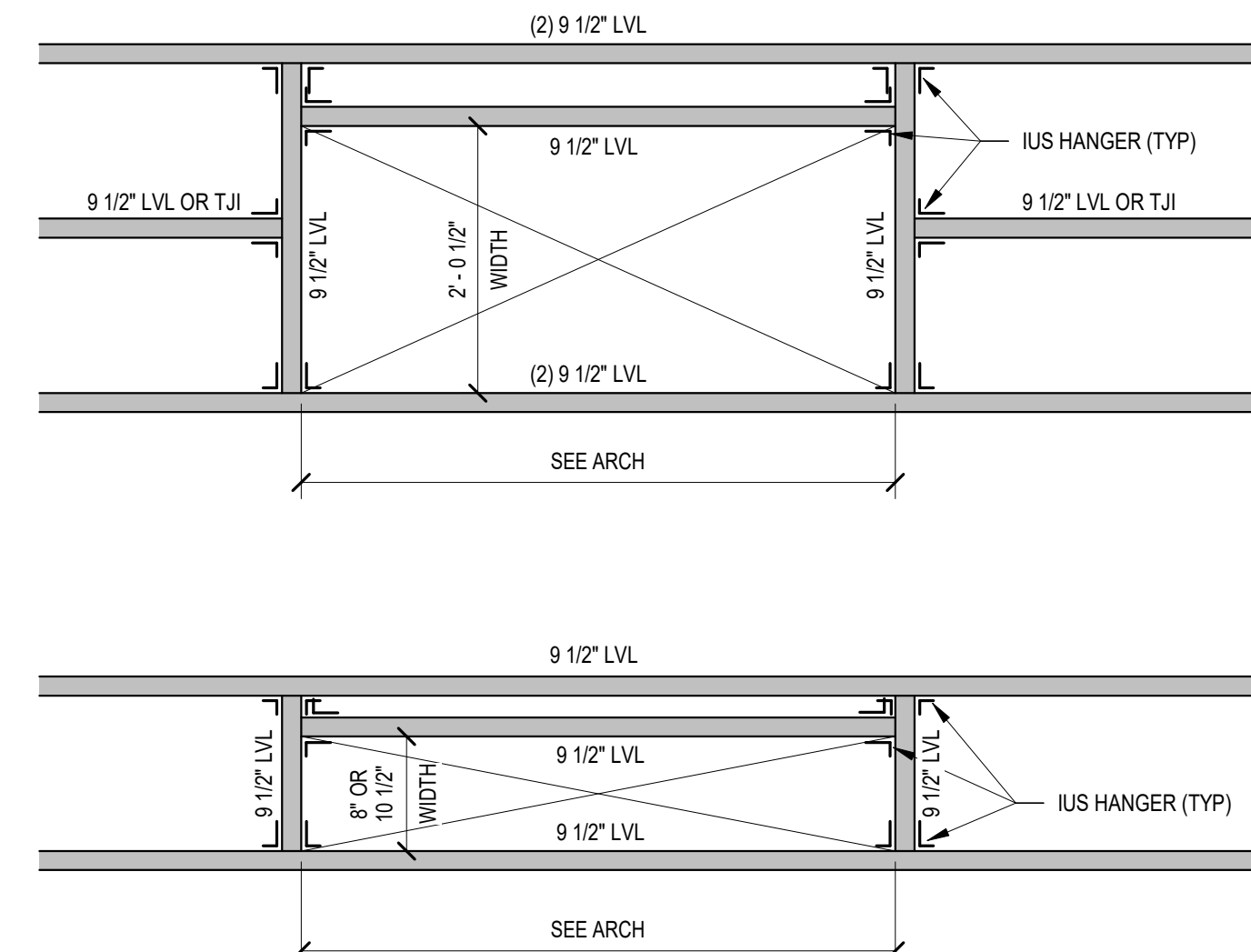
5 TYPICAL WOOD WALL INTERSECTIONS
3/4" = 1'-0"



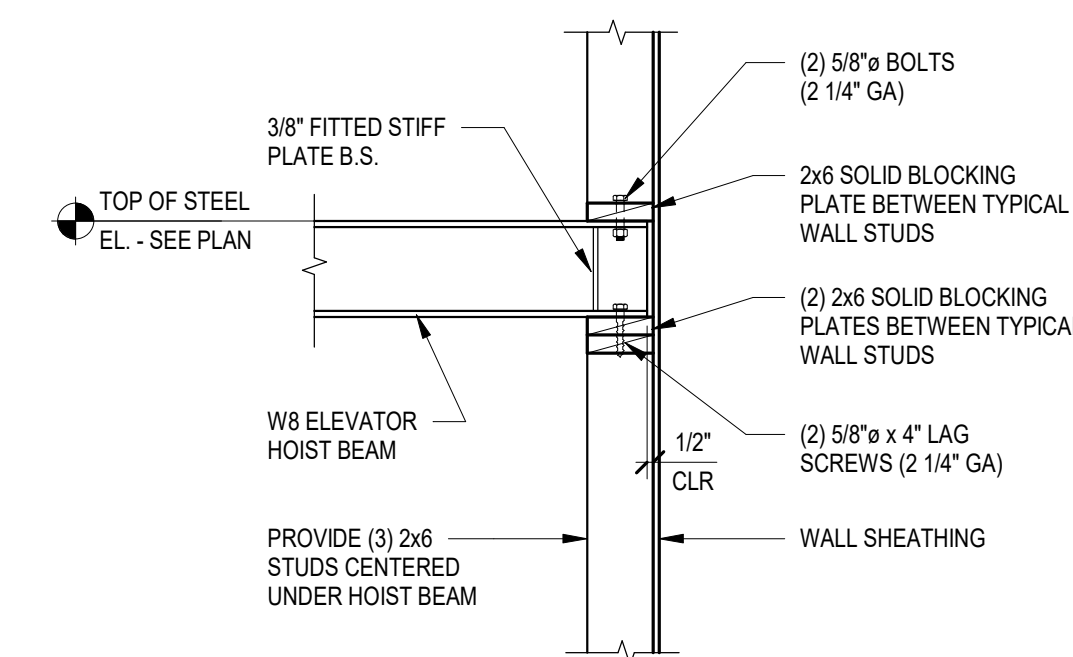
6 TYPICAL LAYOUT AND NAILING FOR FLOOR AND ROOF SHEATHING
3/4" = 1'-0"



7 TYPICAL SUPPORT AT TOP OF NON-BEARING WALLS
1 1/2" = 1'-0"



8 TYPICAL FRAMING AROUND CHASE OPENINGS
3/4" = 1'-0"



9 ELEVATOR HOIST BEAM END SUPPORT
3/4" = 1'-0"

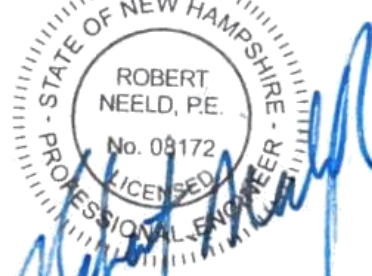
- NOTES:
- GAP SHALL APPLY AFTER ALL DEAD LOADS ARE IN PLACE.
 - FASTEN GWB AND OTHER FINISHES PER ARCH SO AS TO PERMIT FRAMING DEFLECTION.
 - NON-BEARING WALL TO HAVE SINGLE OR DOUBLE TOP PLATE.

- NOTES:
- CONSULT ENGINEER FOR FLOOR OPENINGS WIDER THAN 30 INCHES.
 - COORDINATE CHASE SIZES WITH ARCH DRAWINGS.
 - SEE PLANS FOR TYPICAL FLOOR FRAMING SIZES AND SPACING.

#	Date	Description
1	05/15/23	Scope Changes to Bid Set #1

PERMIT SET
05/15/2023

KUA DORM PROJECT
MAY 12, 2023



KUA
KILTON/WELCH
DORMITORIES

Main Street,
Meriden, NH 03770

TYPICAL FRAMING
DETAILS

SW-3.0

#	Date	Description
1	05/15/23	Scope Changes to Bid Set #1

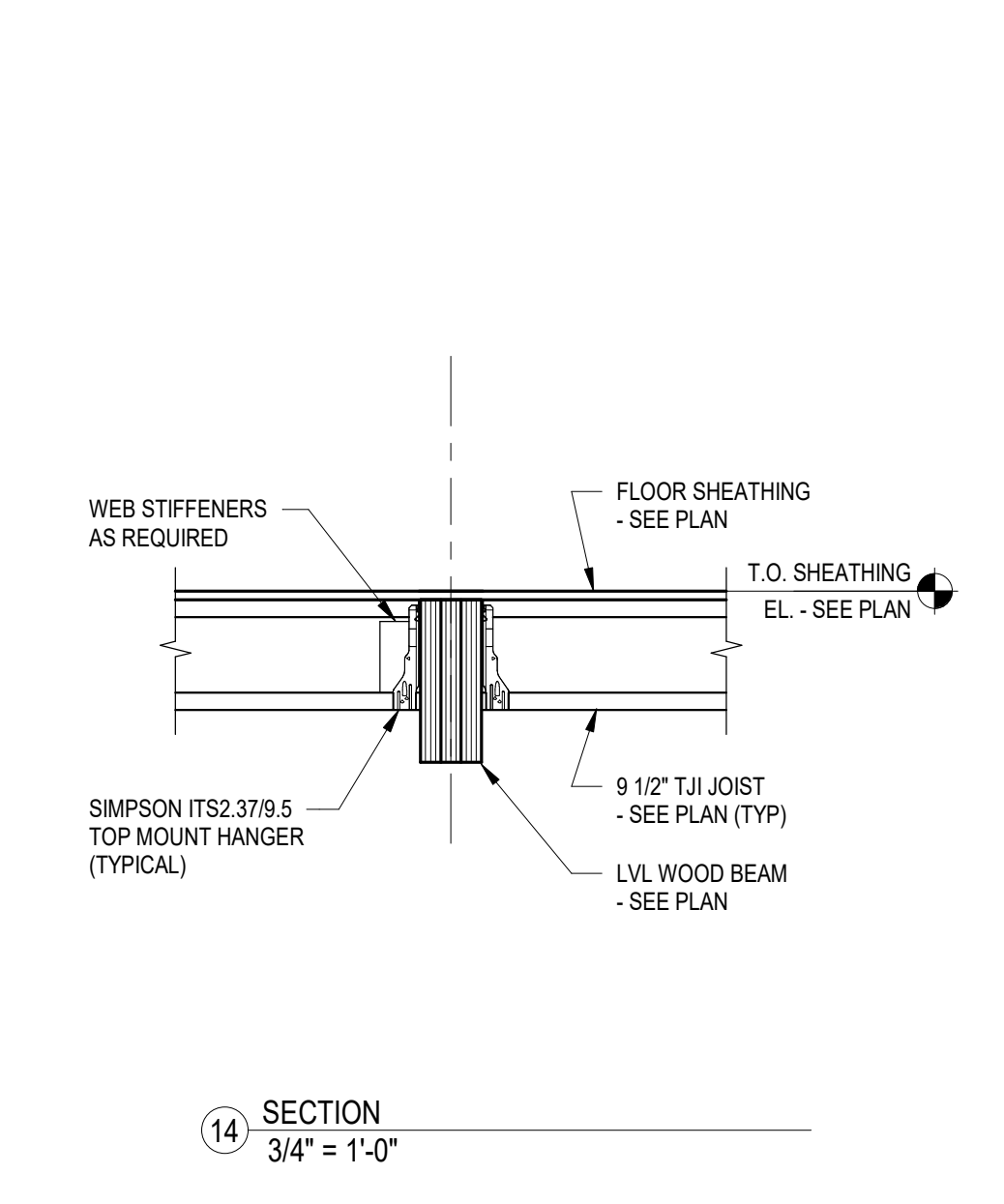
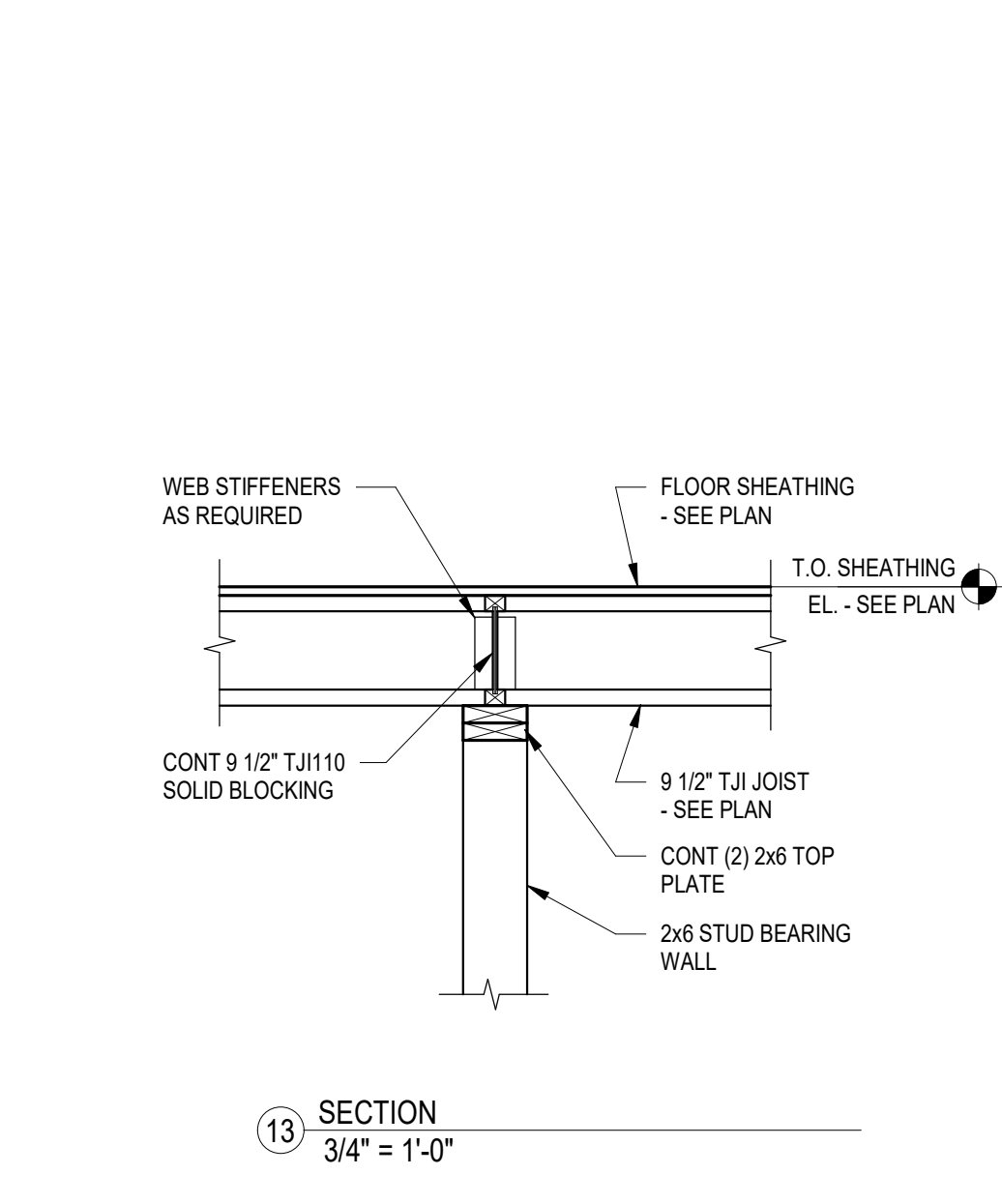
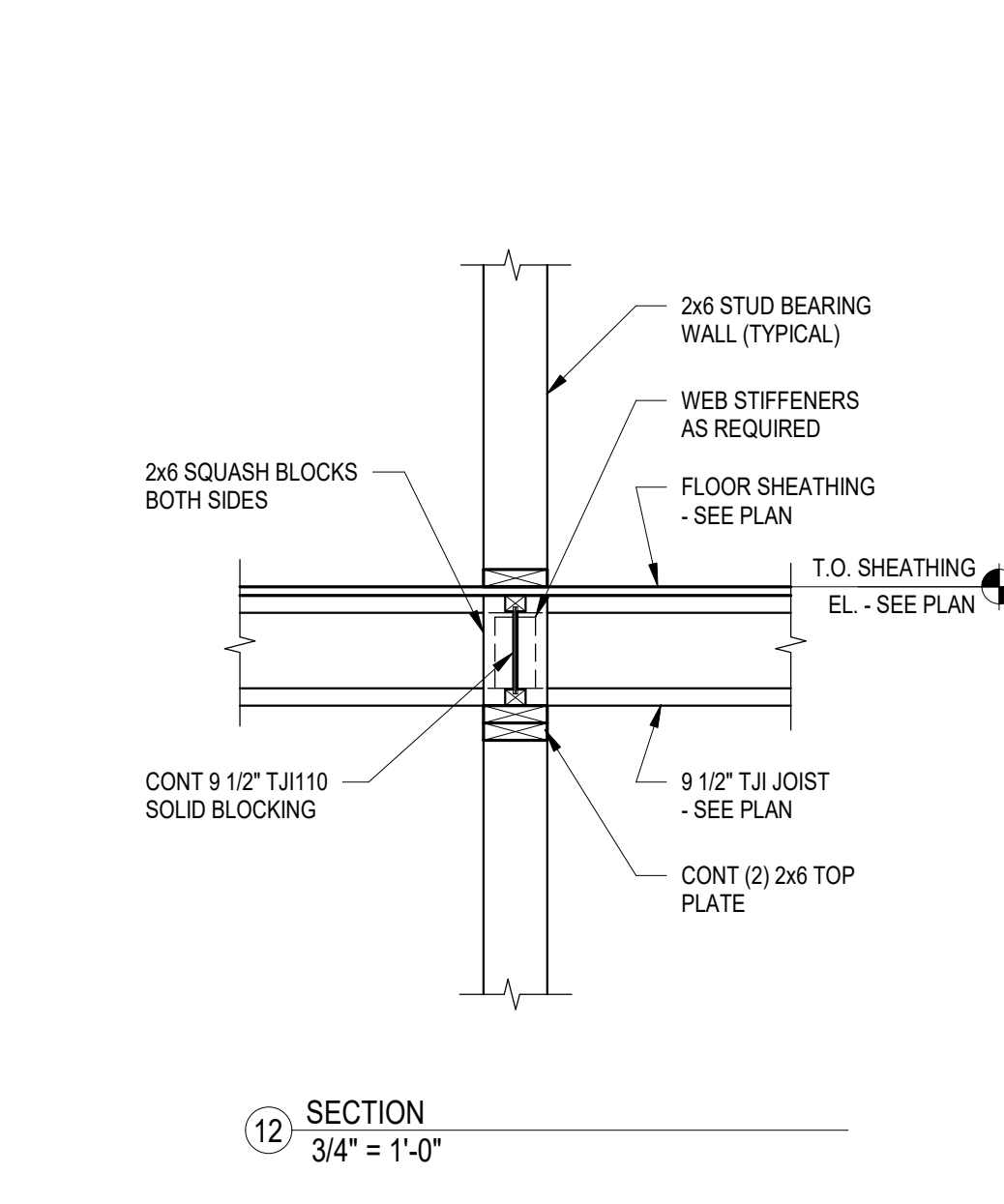
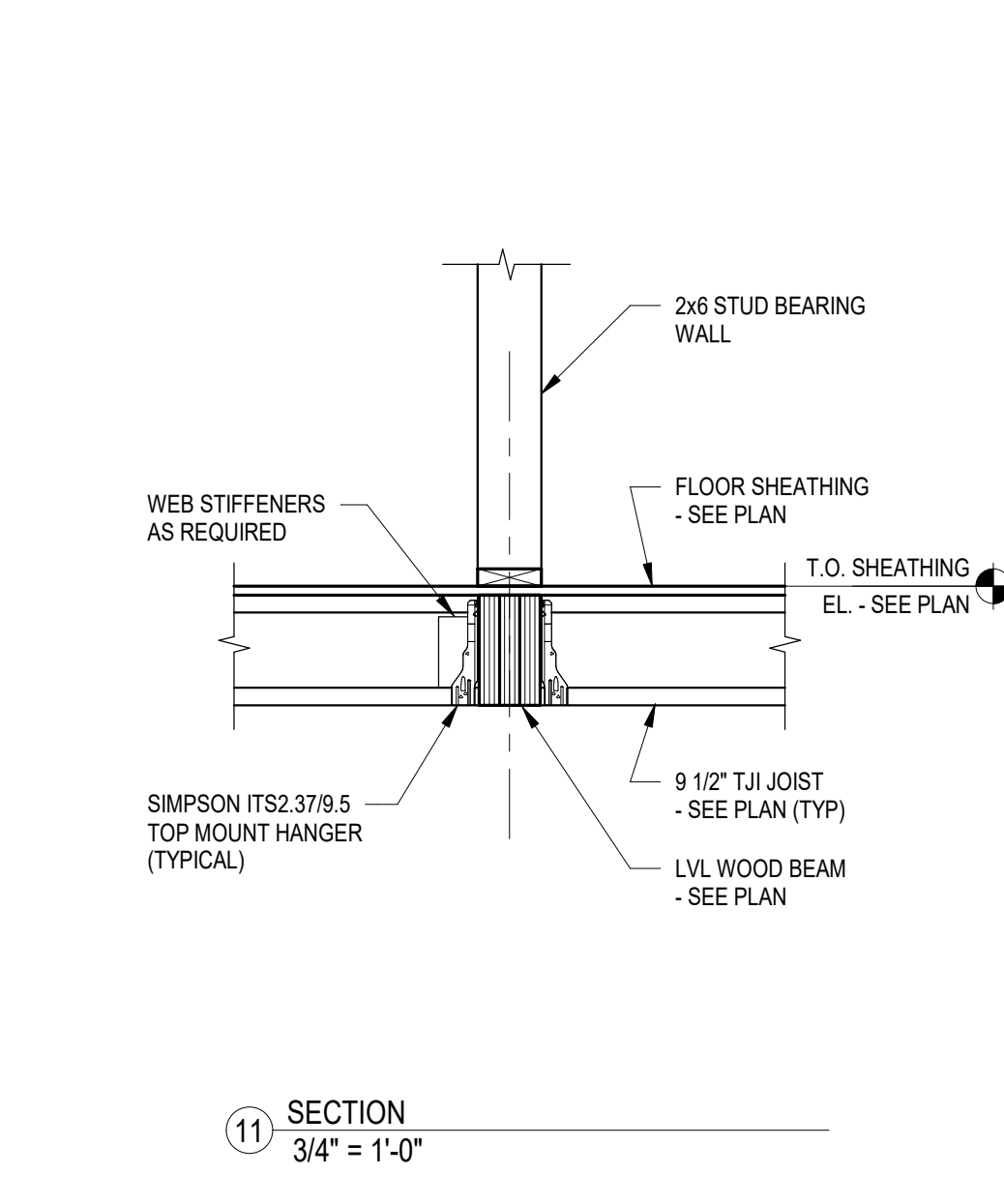
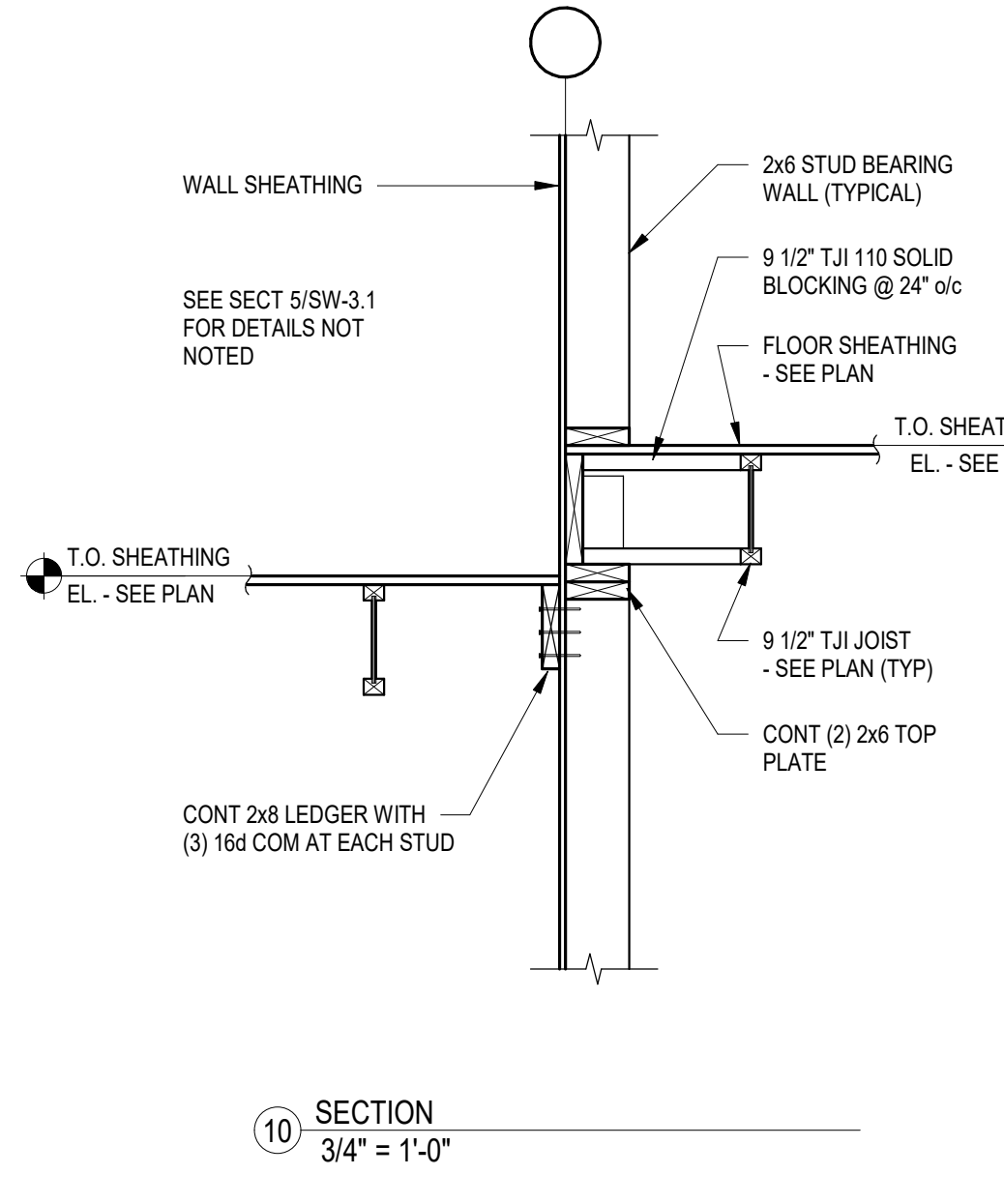
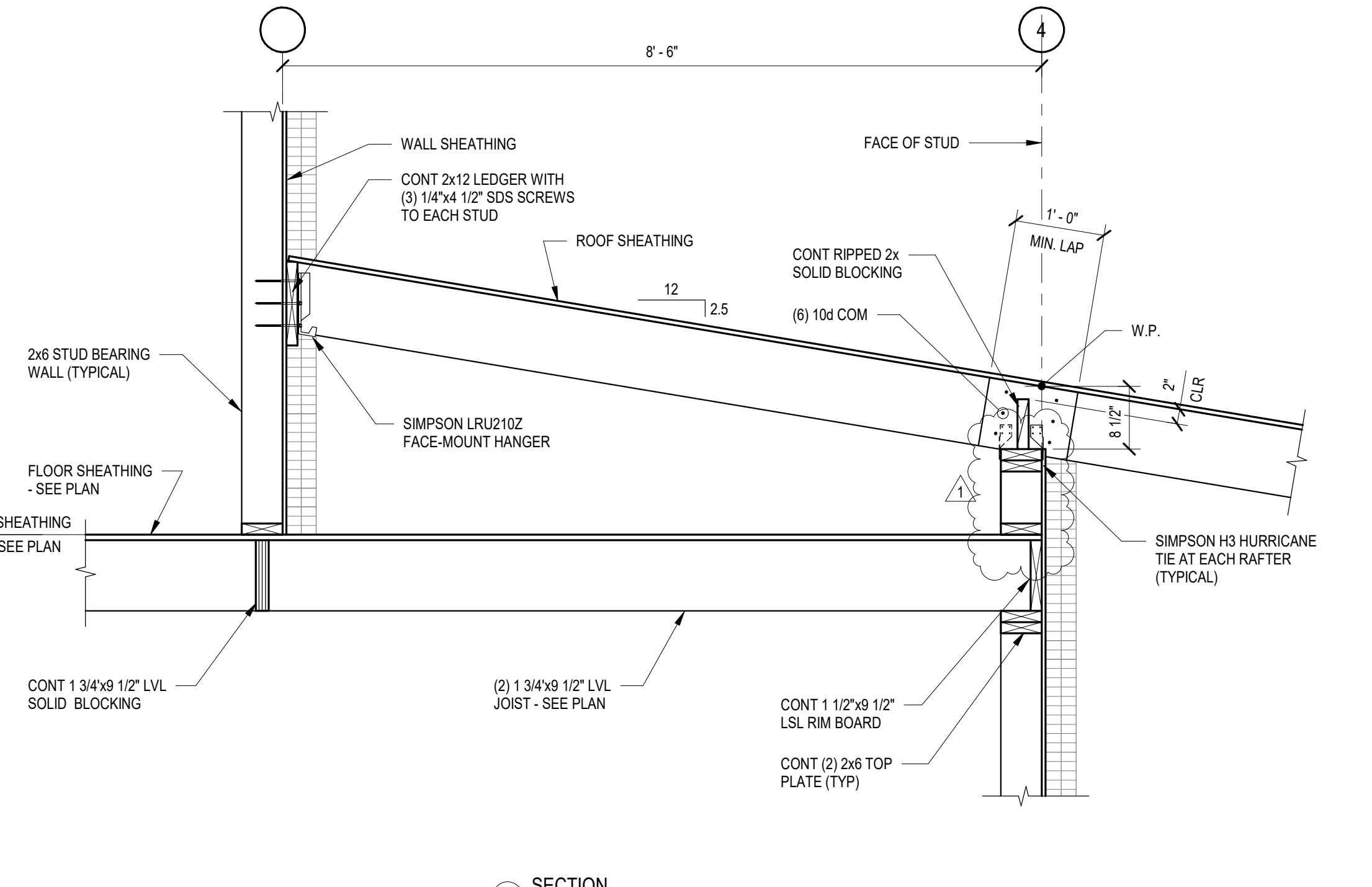
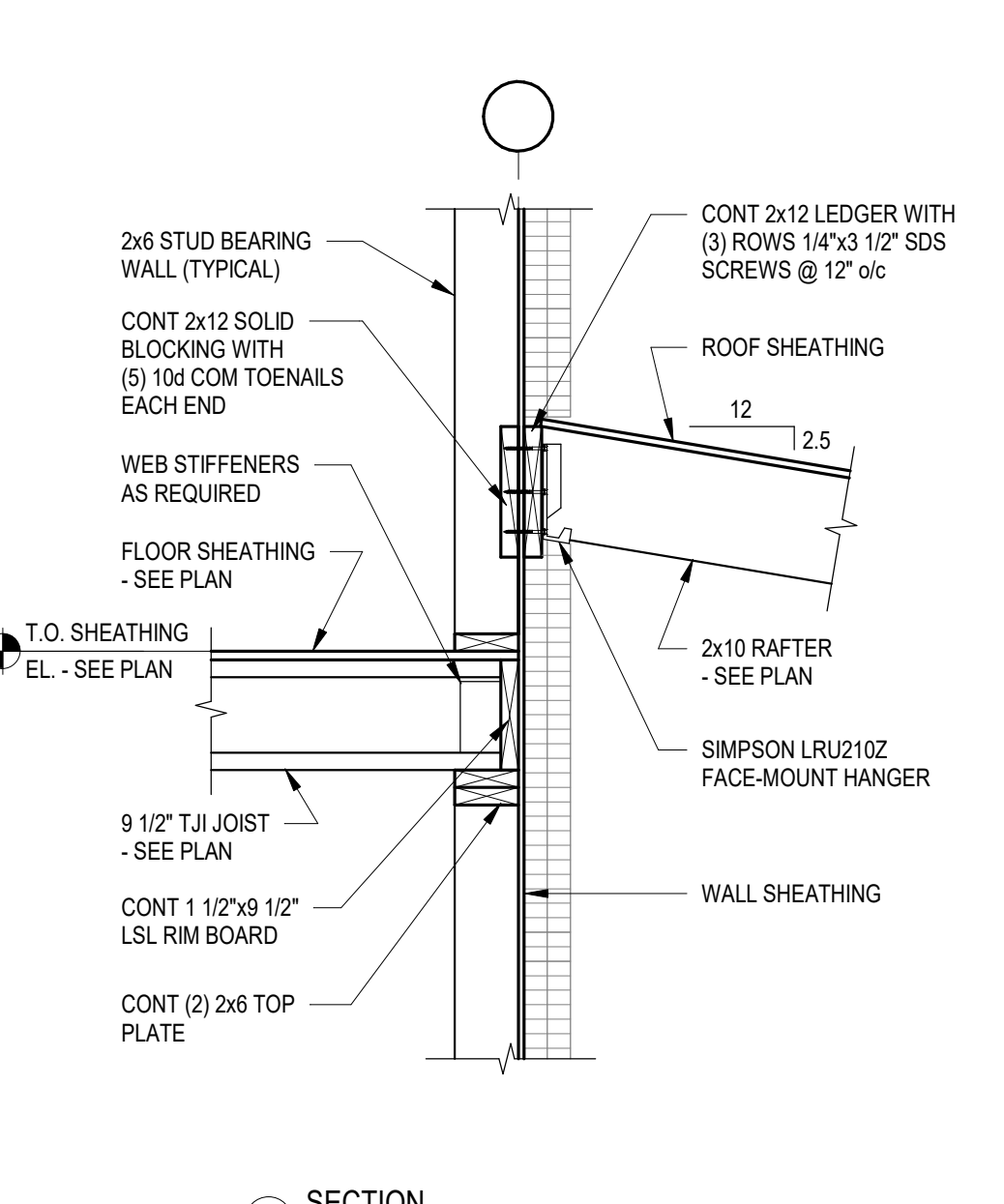
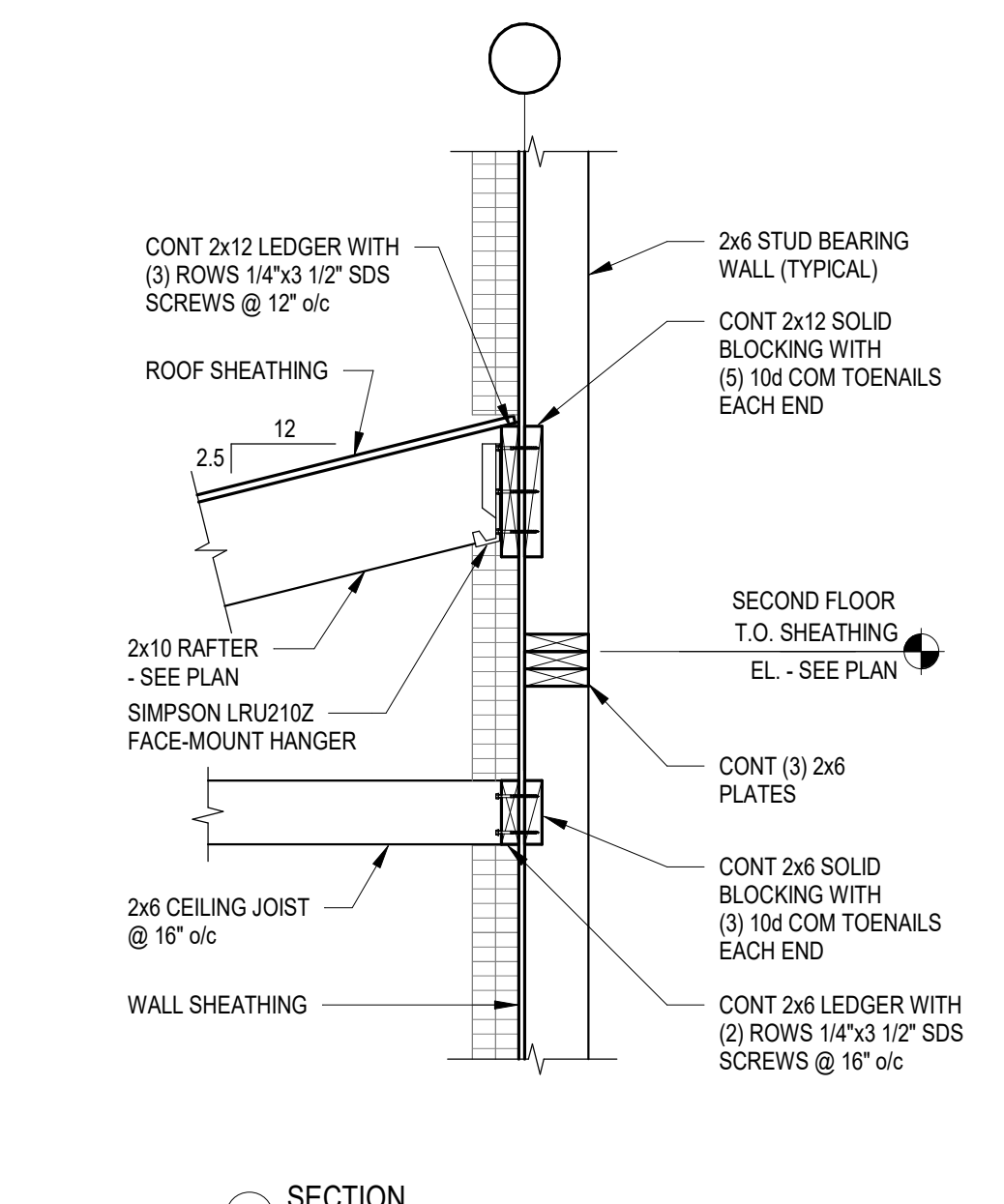
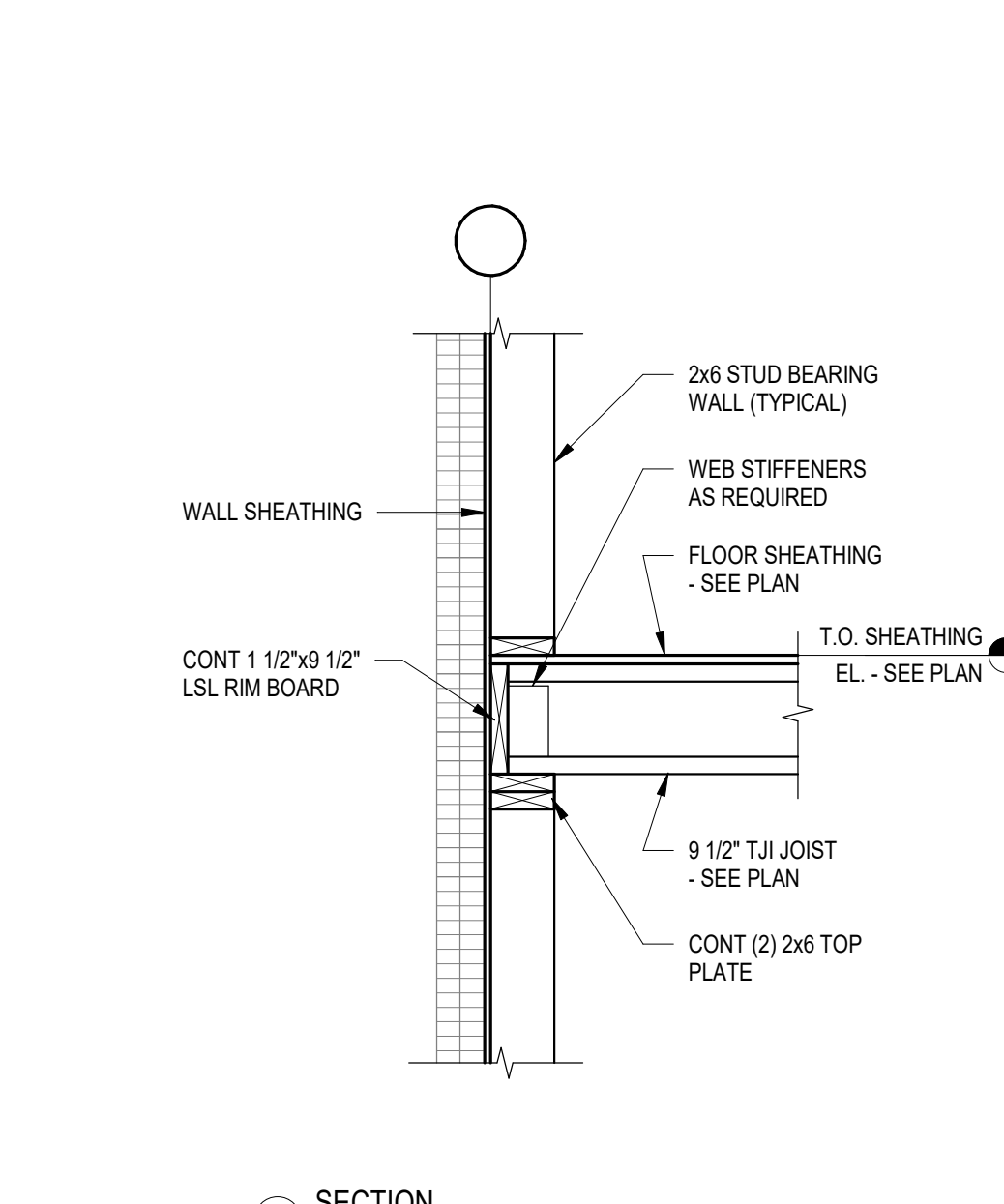
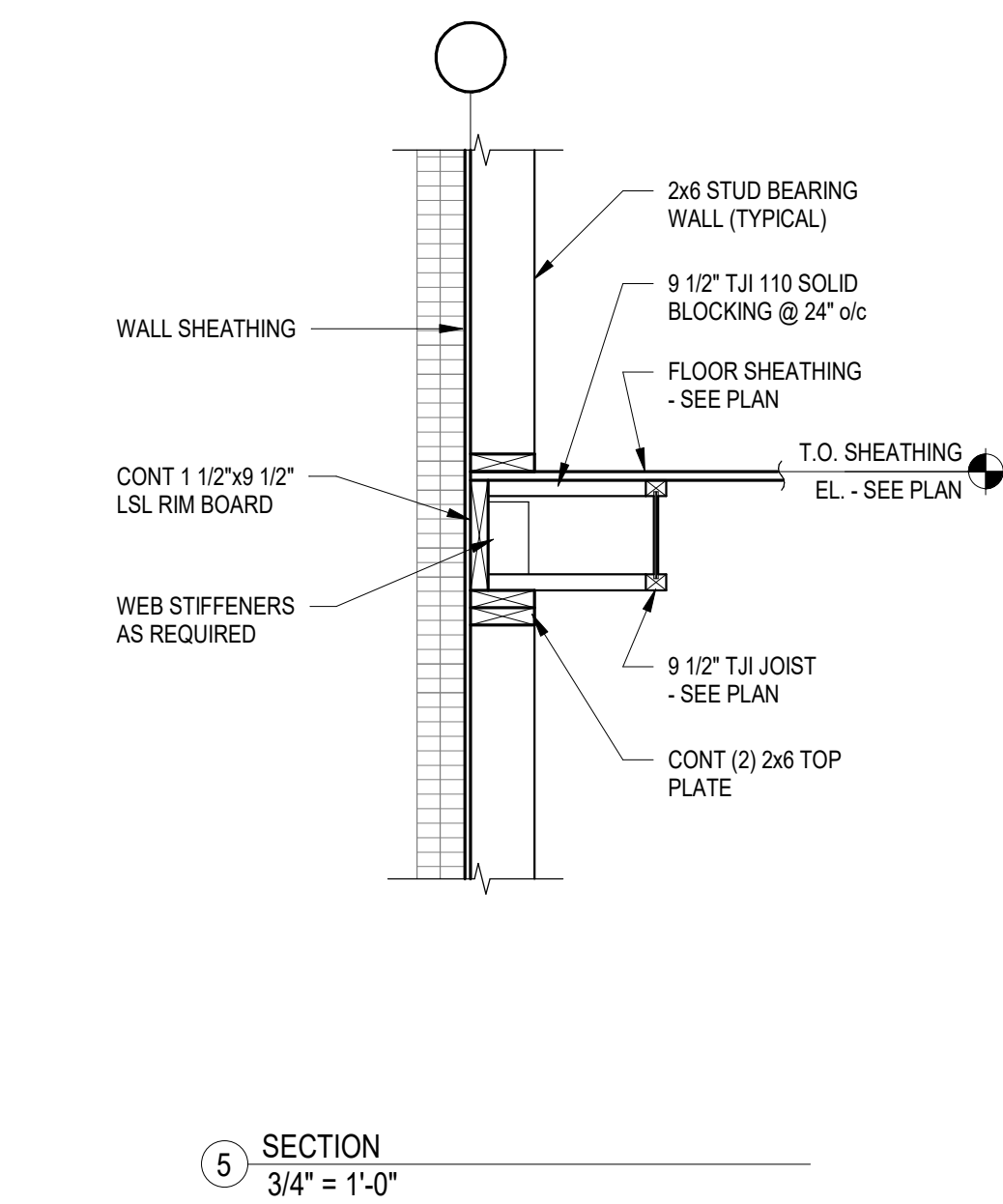
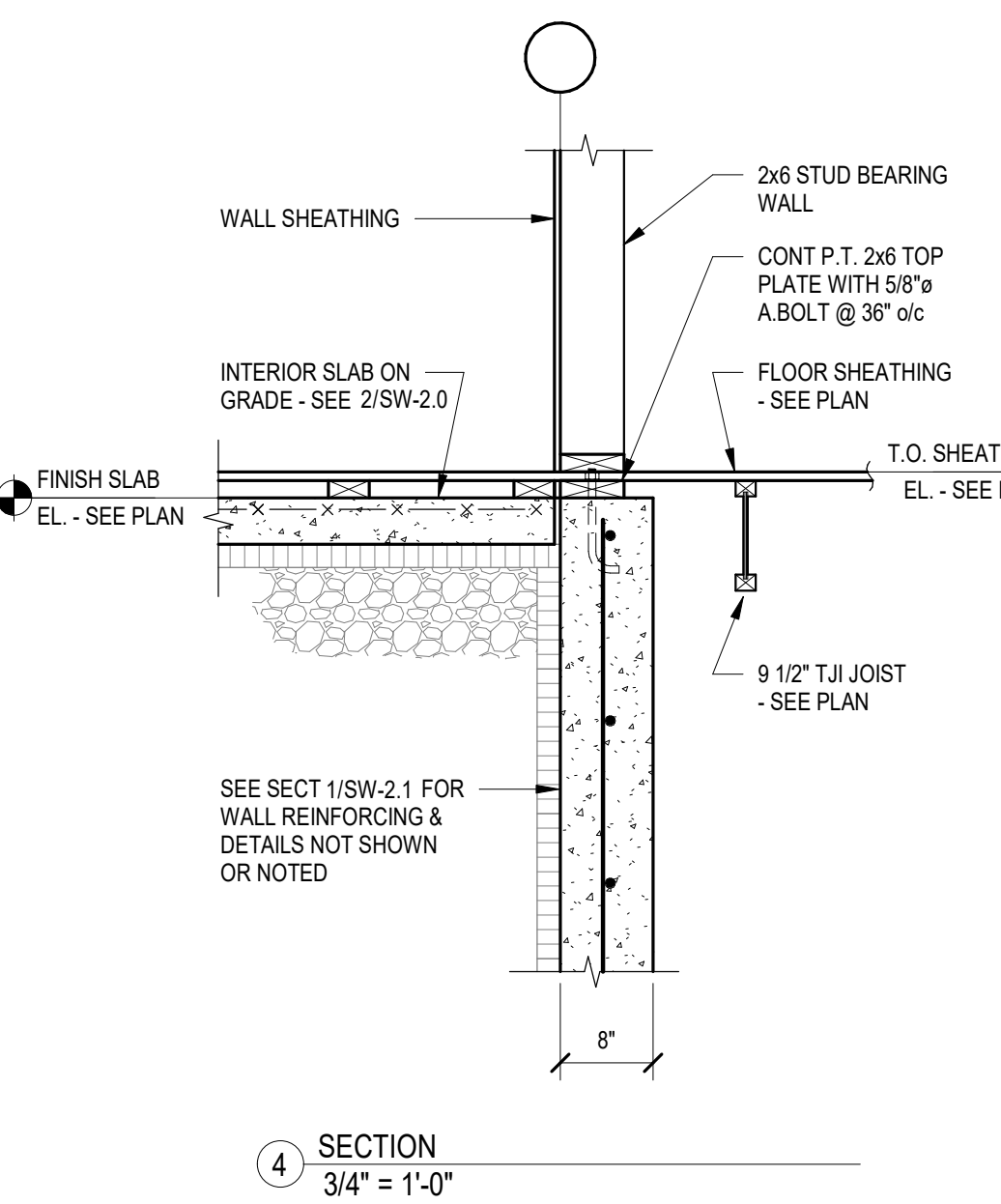
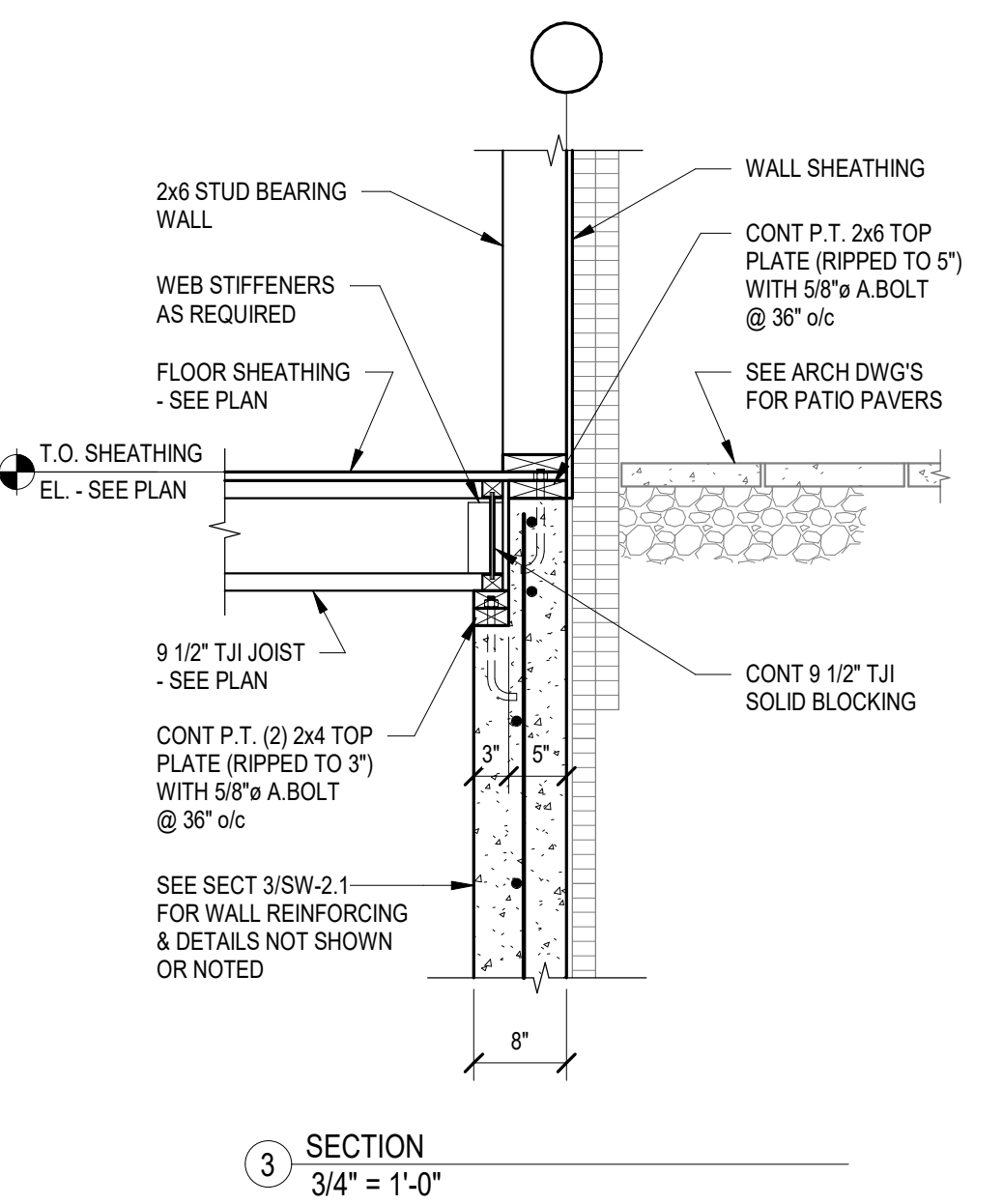
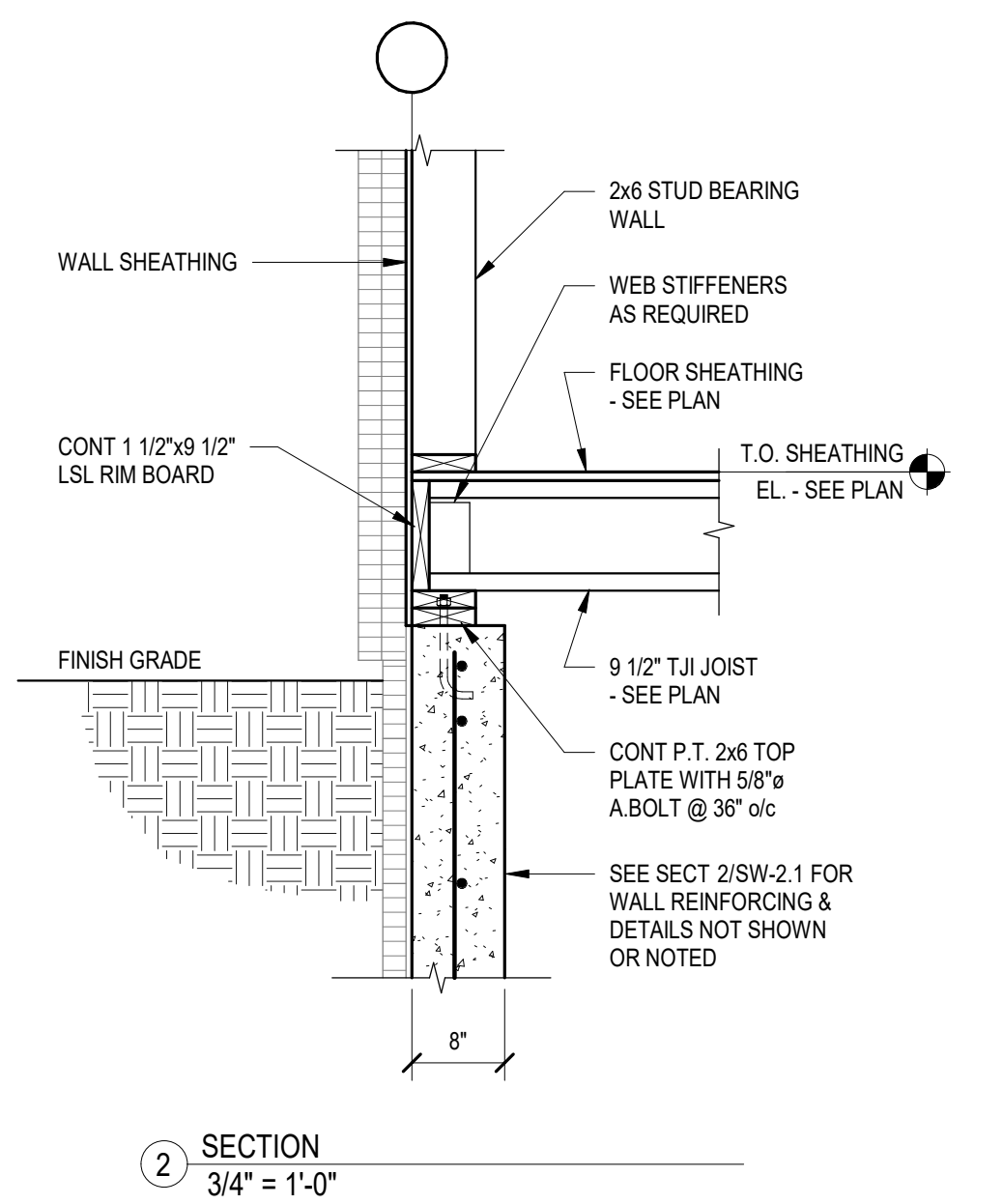
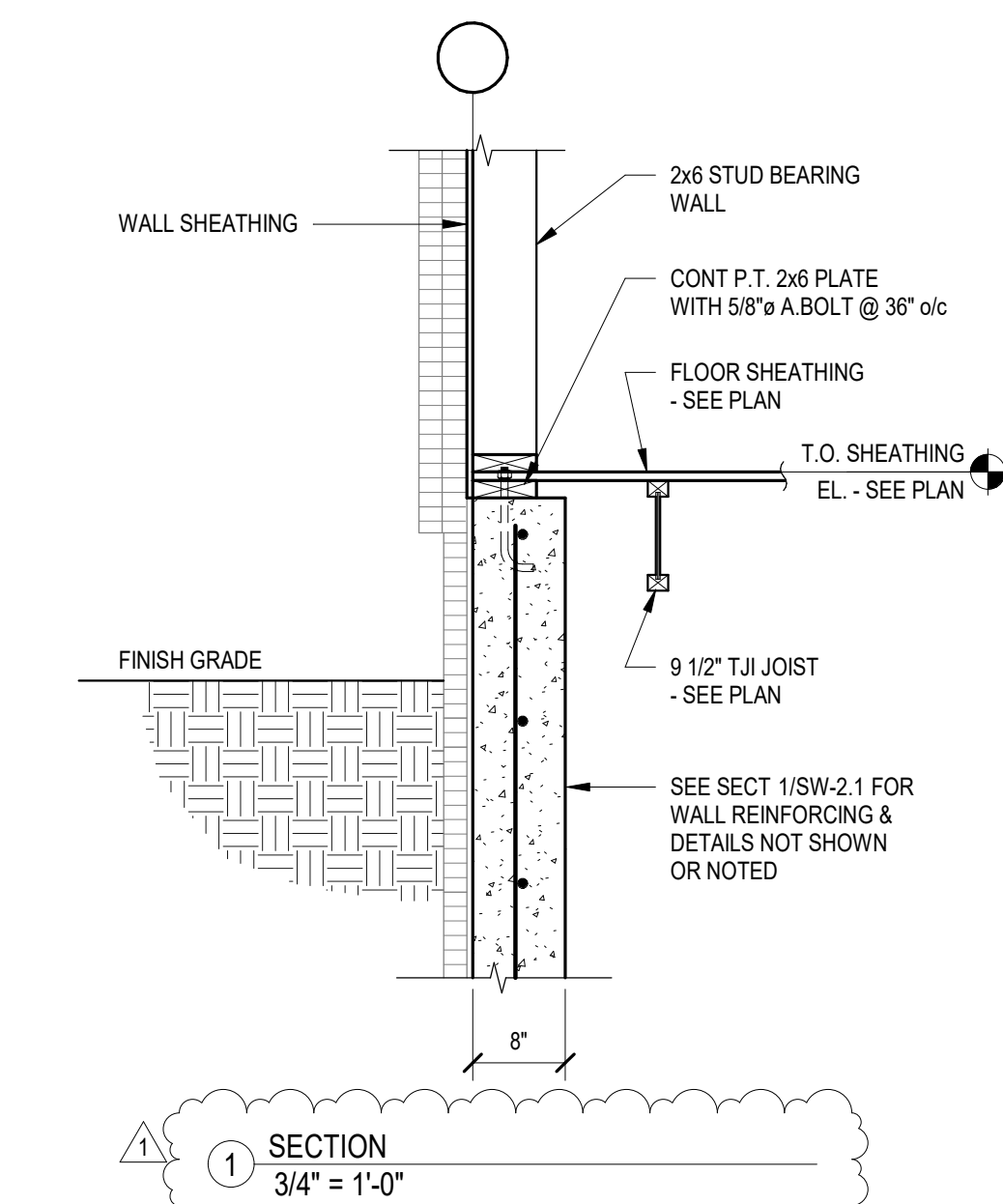
PERMIT SET
05/15/2023

KUA DORM PROJECT
MAY 12, 2023
STATE OF NEW HAMPSHIRE
ROBERT NEEDL, P.E.
No. 09172
LICENSED PROFESSIONAL ENGINEER

KUA
KILTON/WELCH
DORMITORIES
Main Street,
Meriden, NH 03770

FRAMING DETAILS

SW-3.1



#	Date	Description
1	05/15/23	Scope Changes to Bid Set #1

PERMIT SET
05/15/2023

KUA DORM PROJECT
MAY 12, 2023

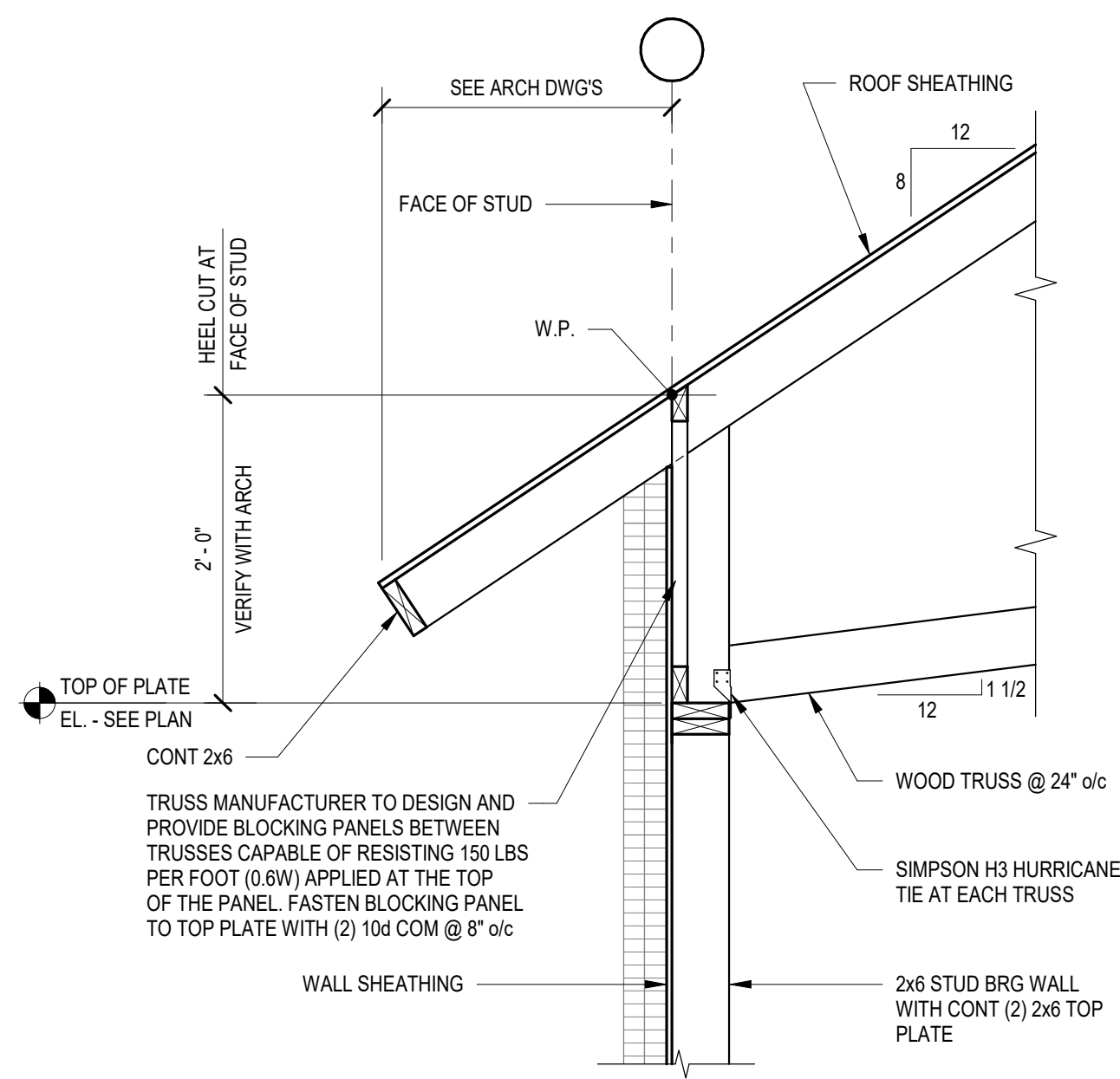


KUA KILTON/WELCH DORMITORIES

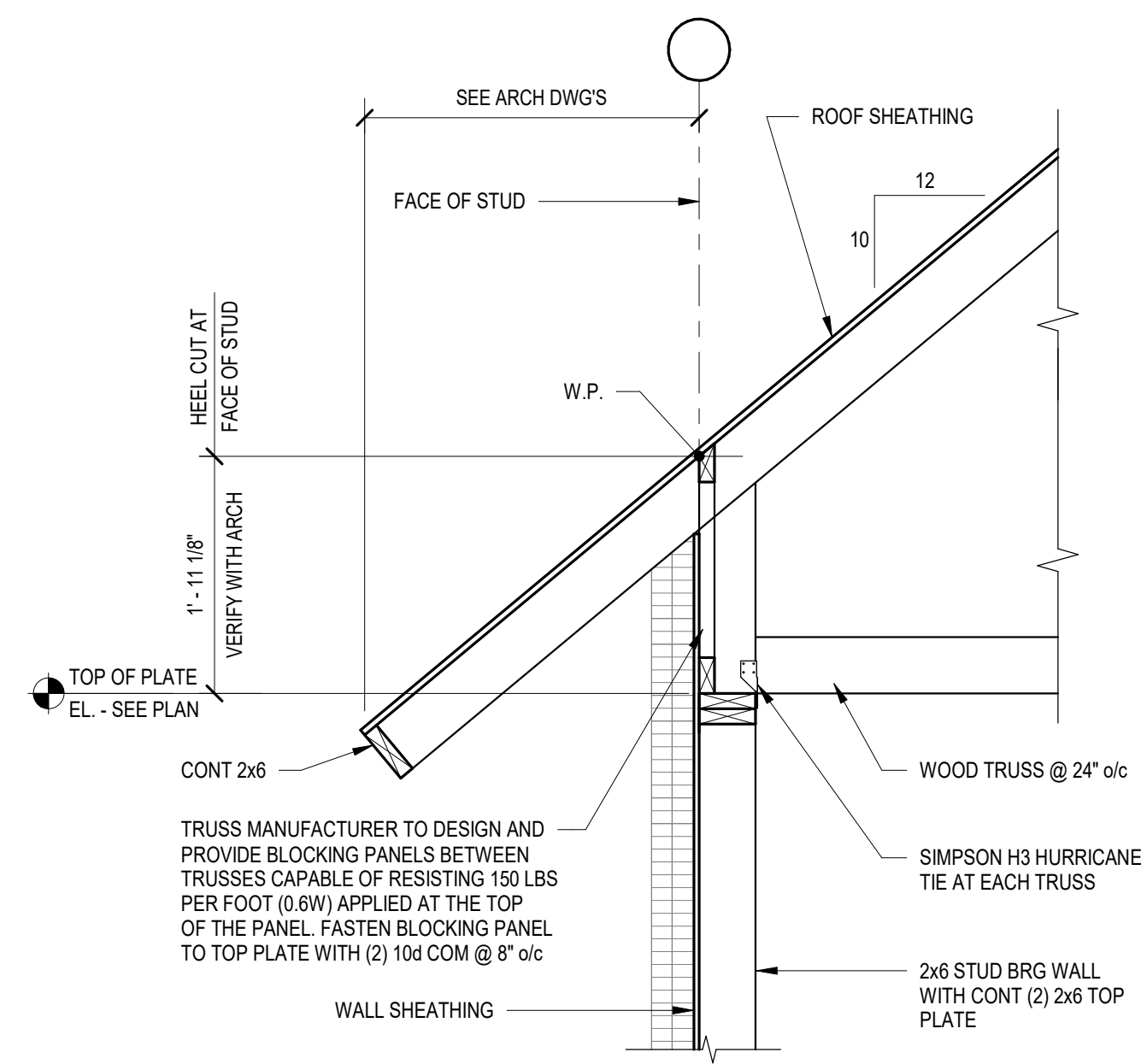
Main Street,
Meriden, NH 03770

FRAMING DETAILS

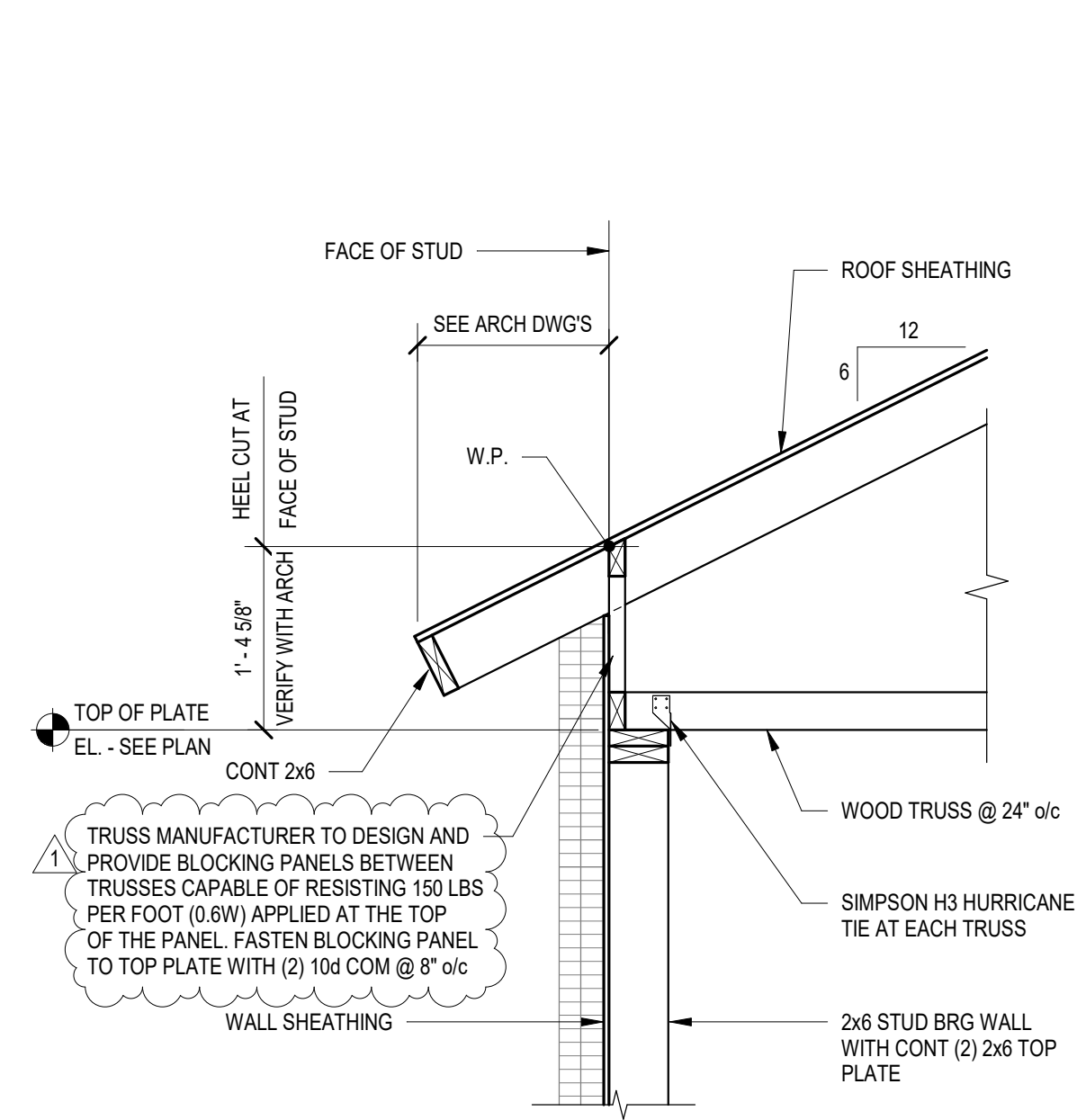
SW-3.2



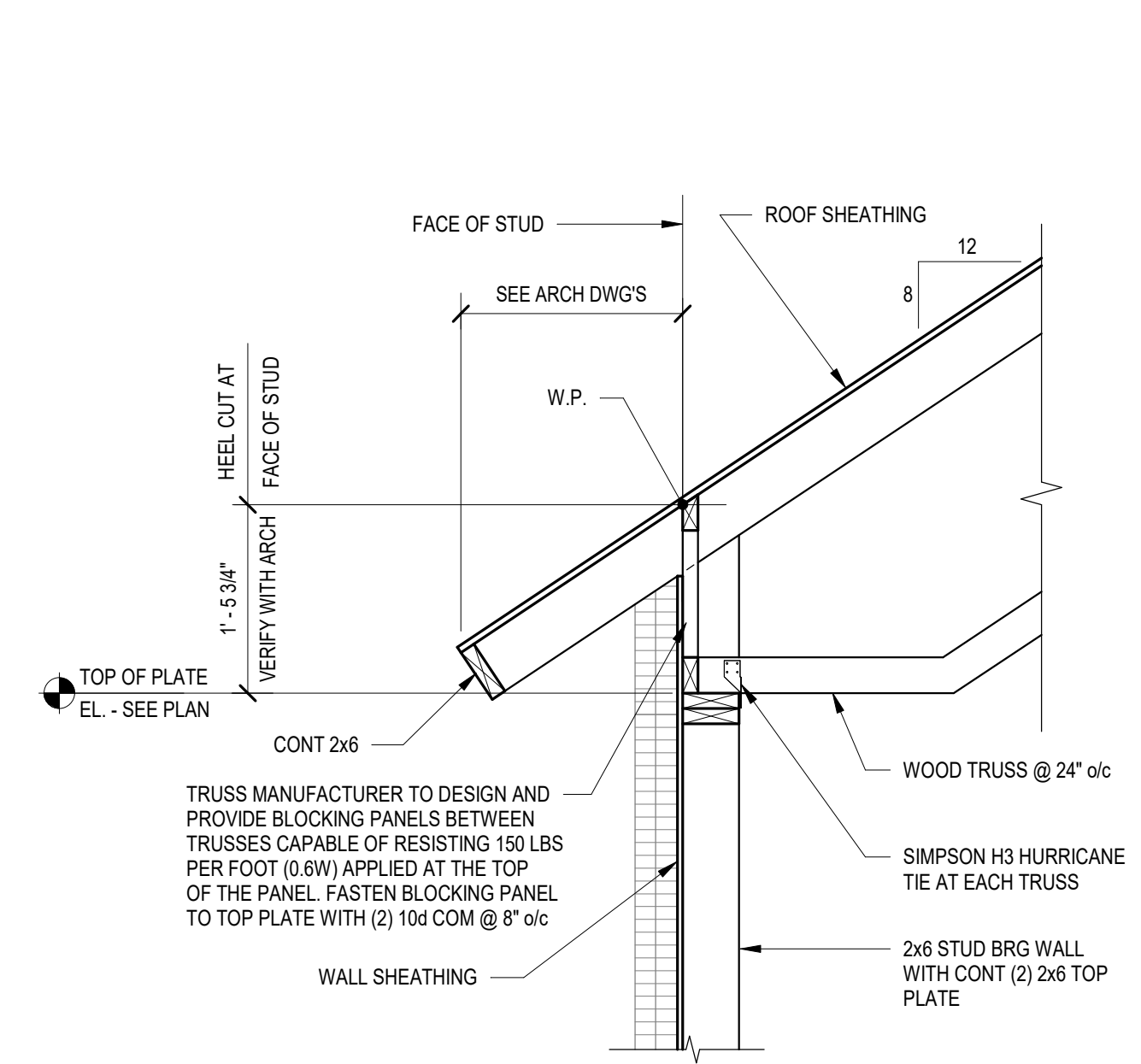
1 SECTION
3/4" = 1'-0"



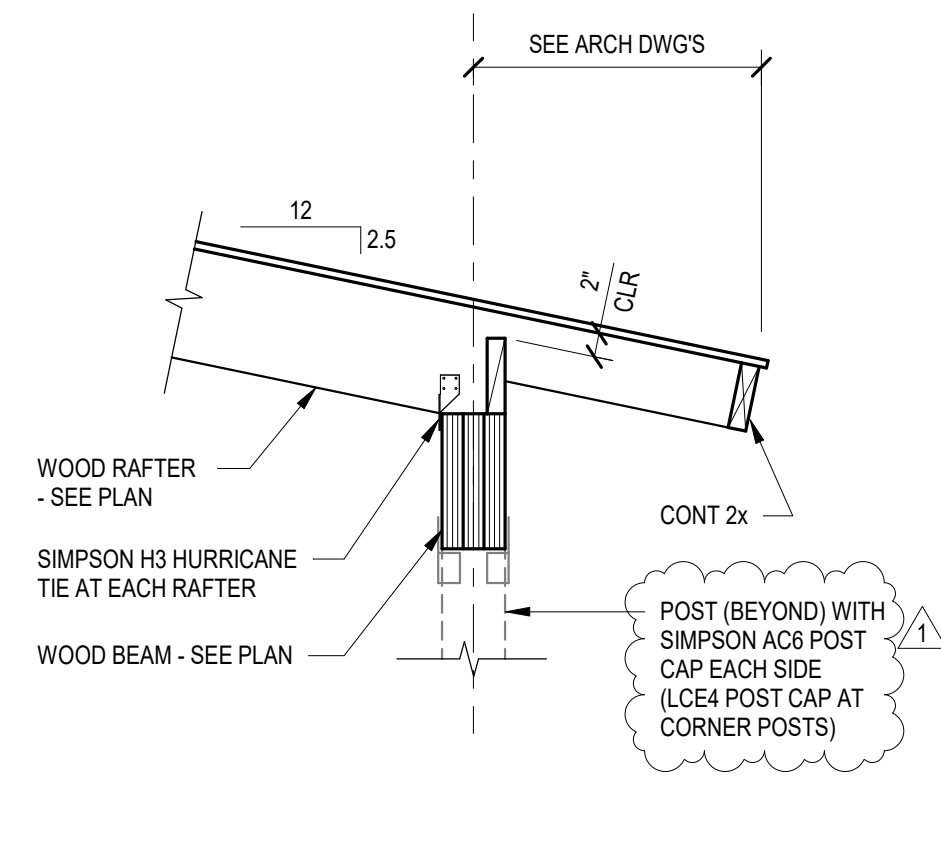
2 SECTION
3/4" = 1'-0"



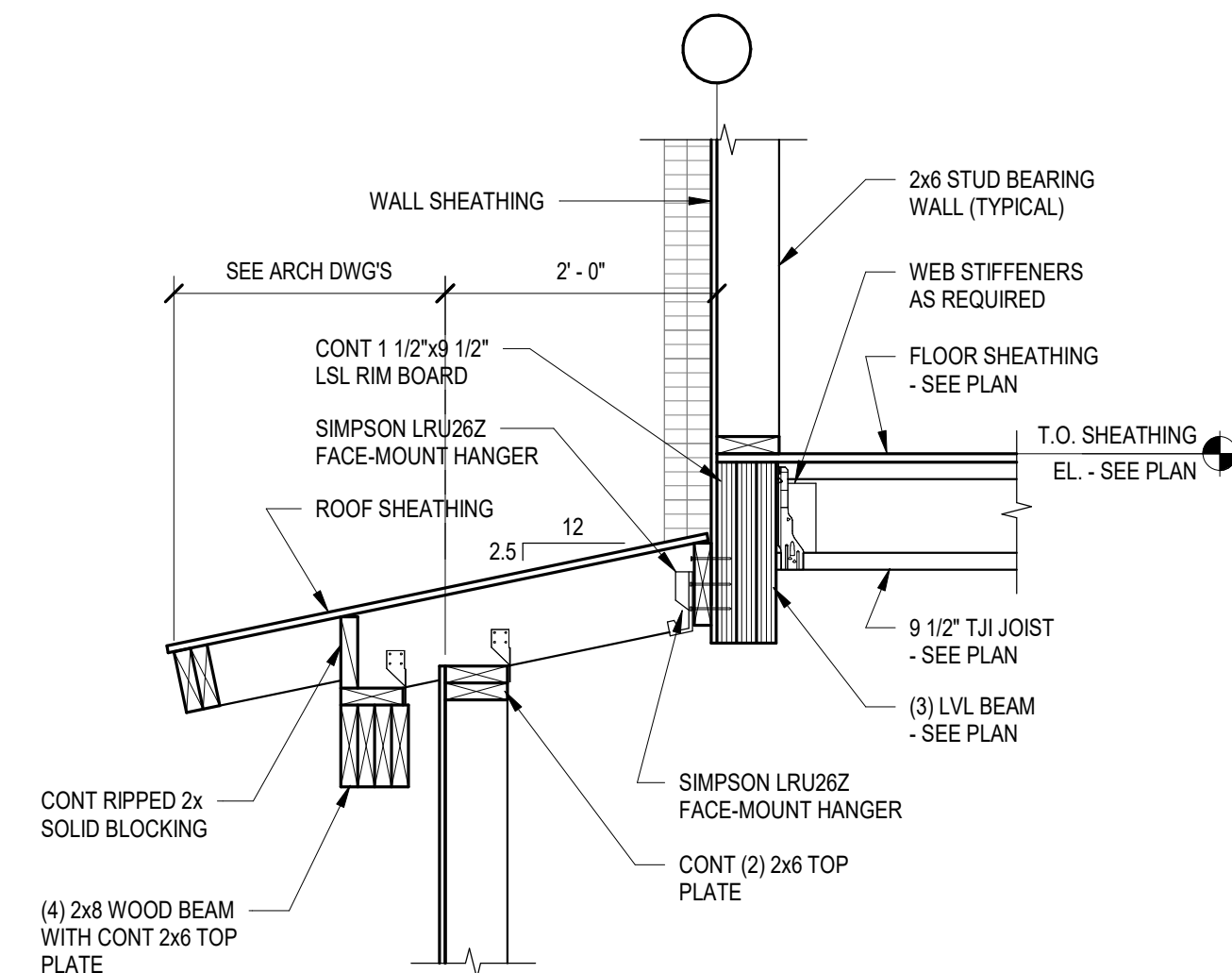
3 SECTION
3/4" = 1'-0"



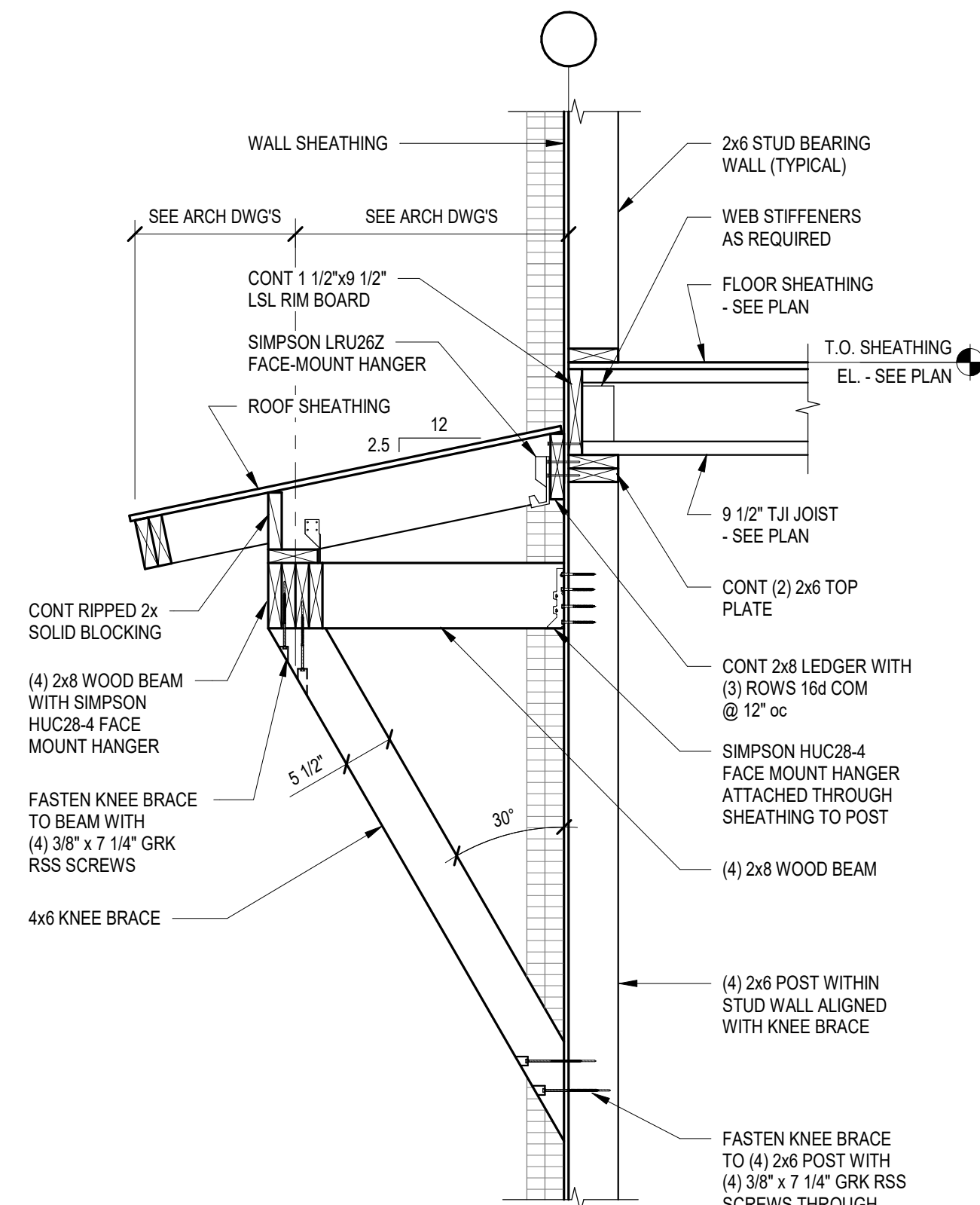
4 SECTION
3/4" = 1'-0"



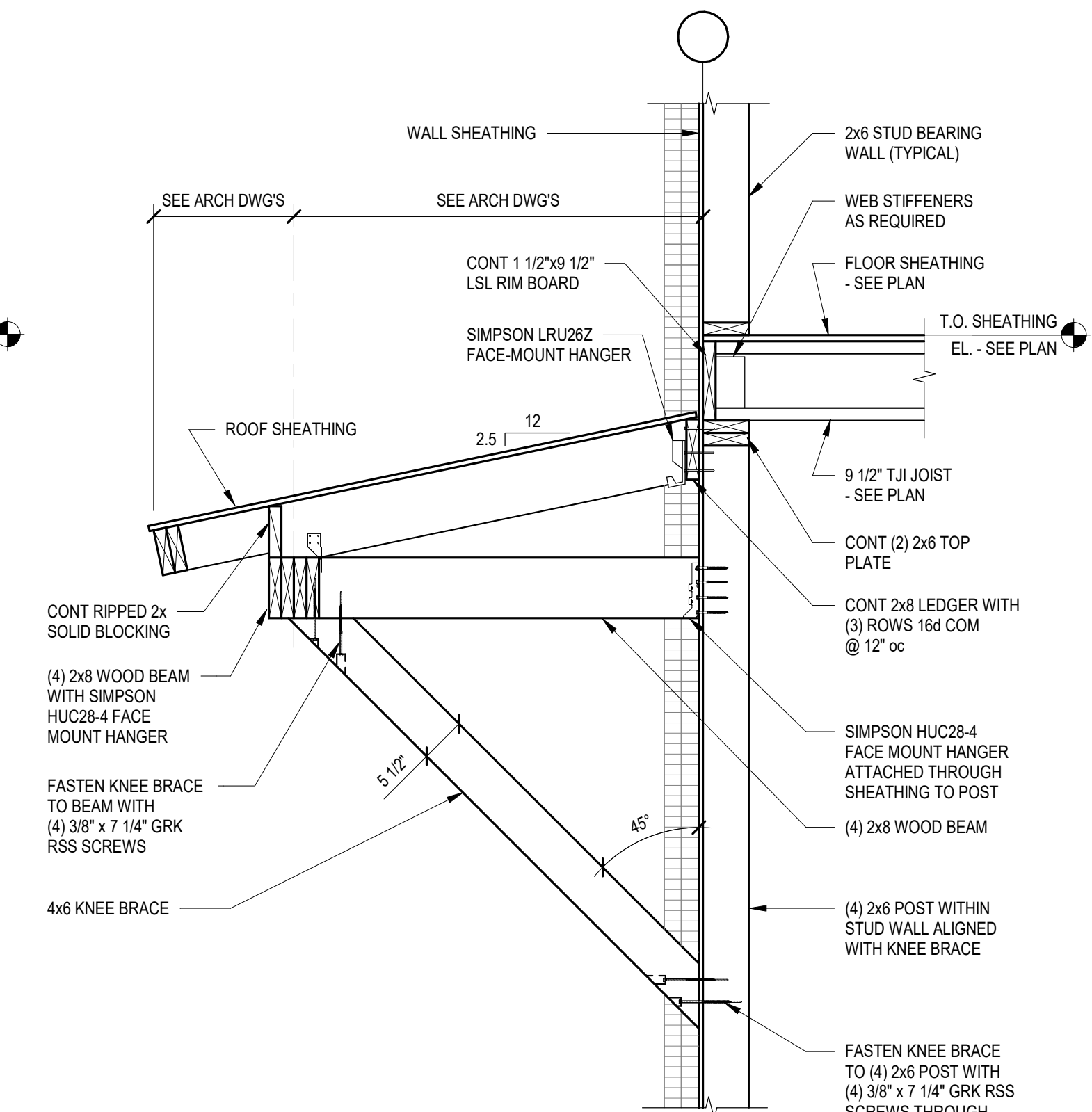
5 SECTION
3/4" = 1'-0"



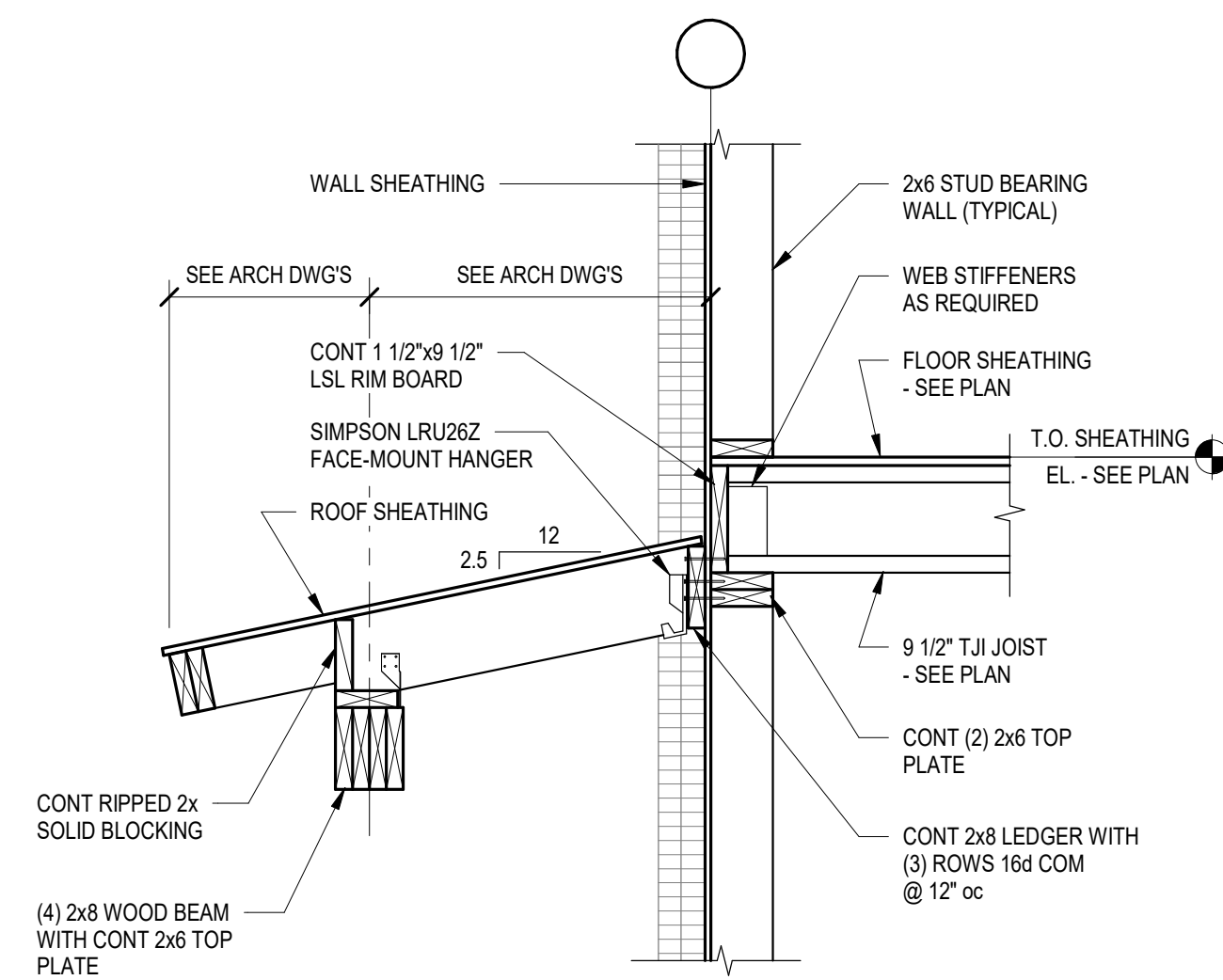
6 SECTION
3/4" = 1'-0"



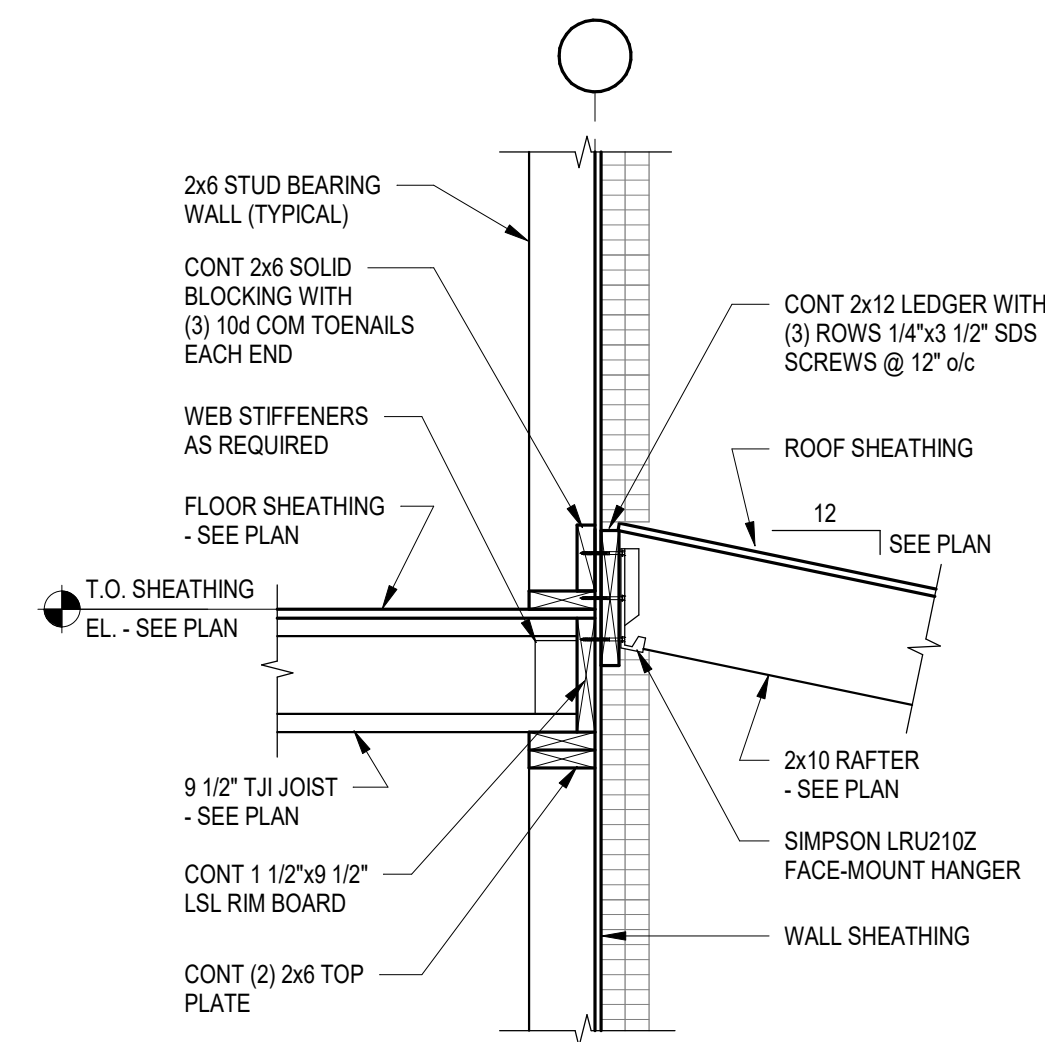
8 SECTION
3/4" = 1'-0"



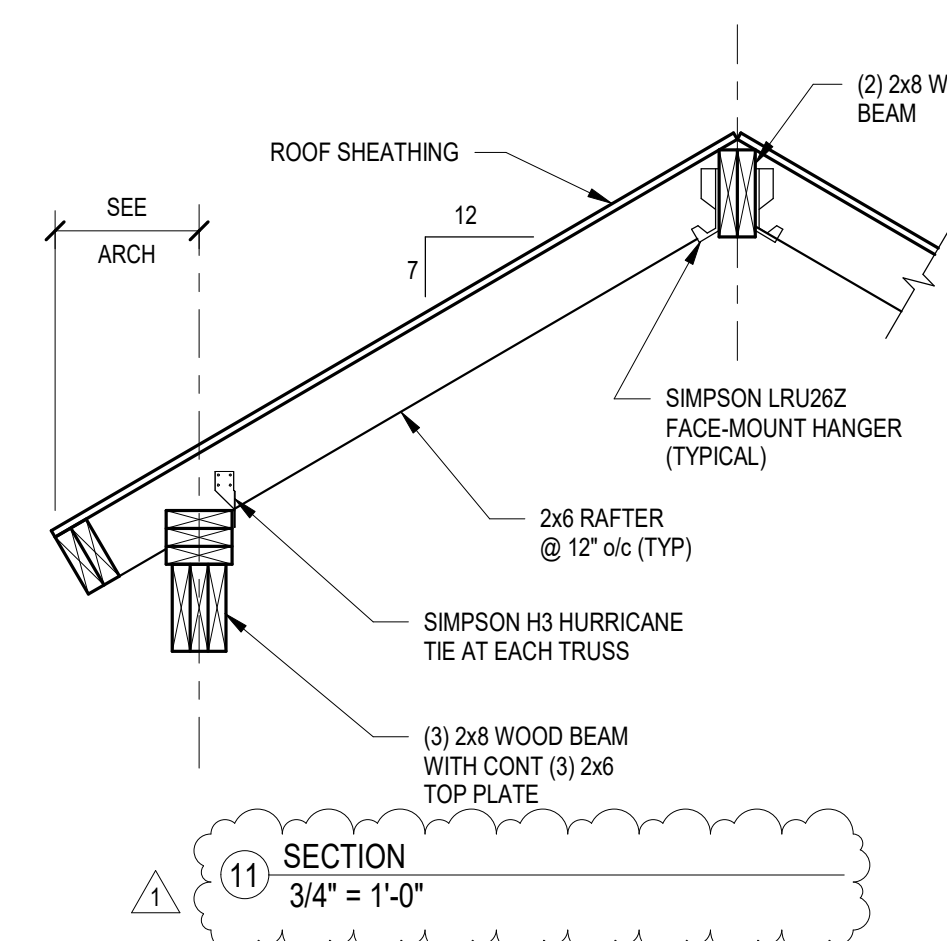
10 SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"



9 SECTION
3/4" = 1'-0"



11 SECTION
3/4" = 1'-0"

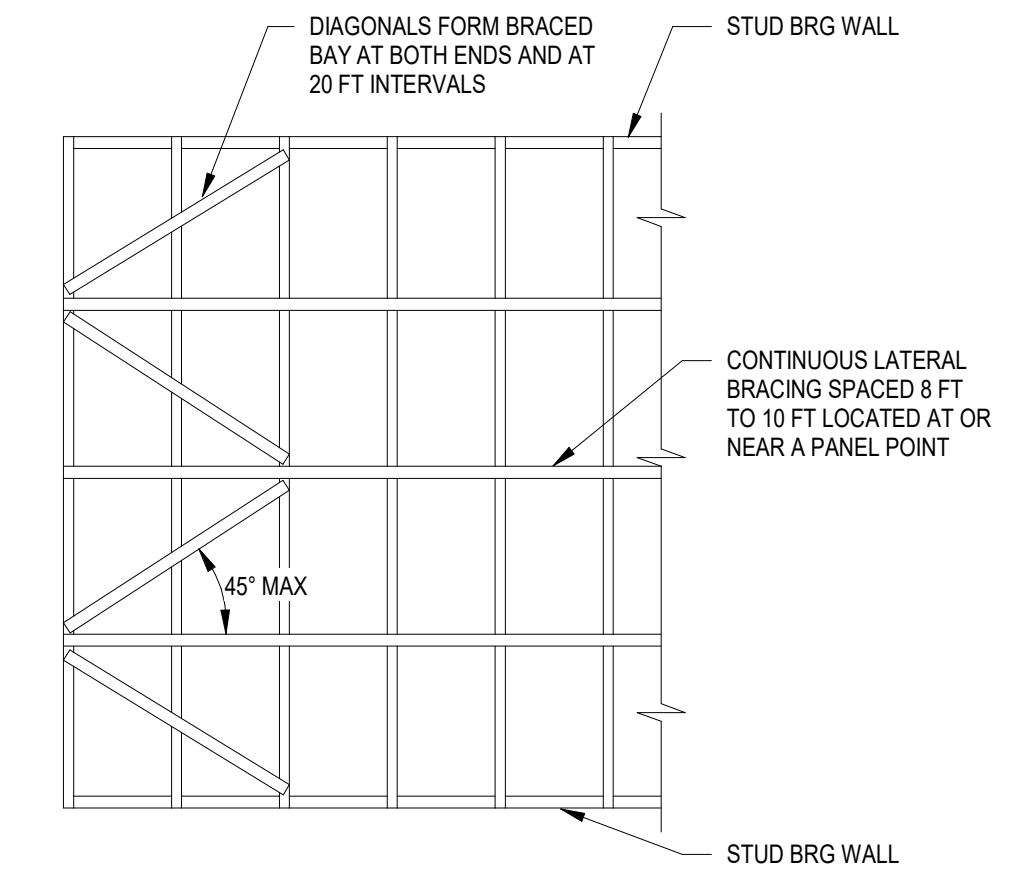
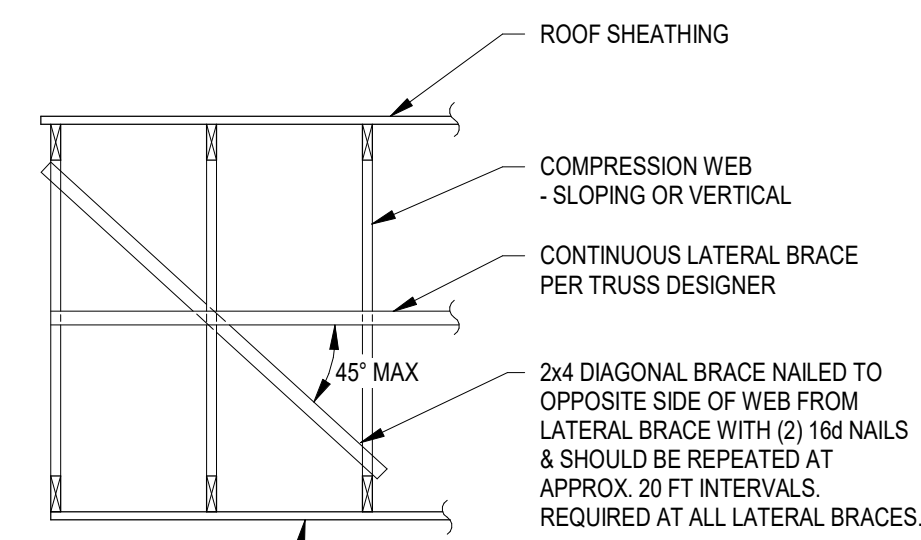
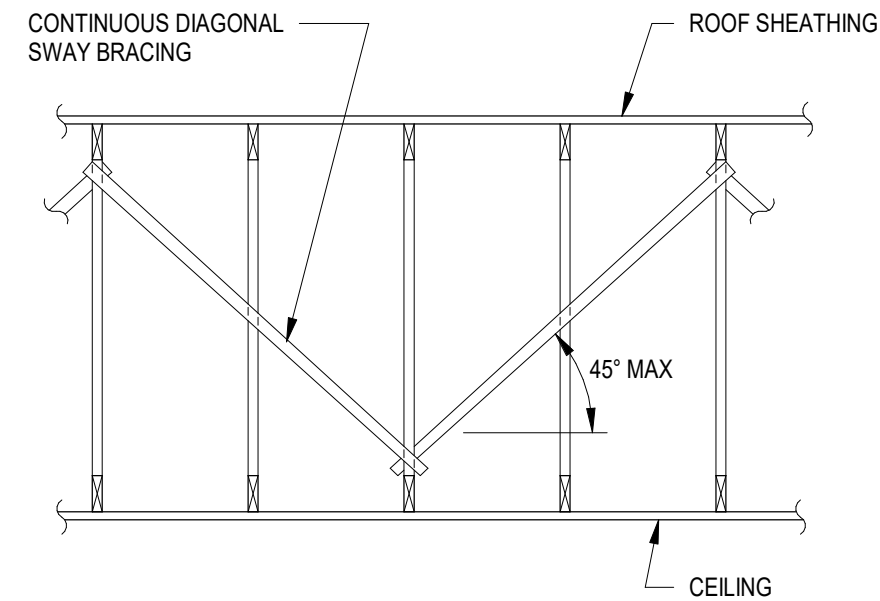
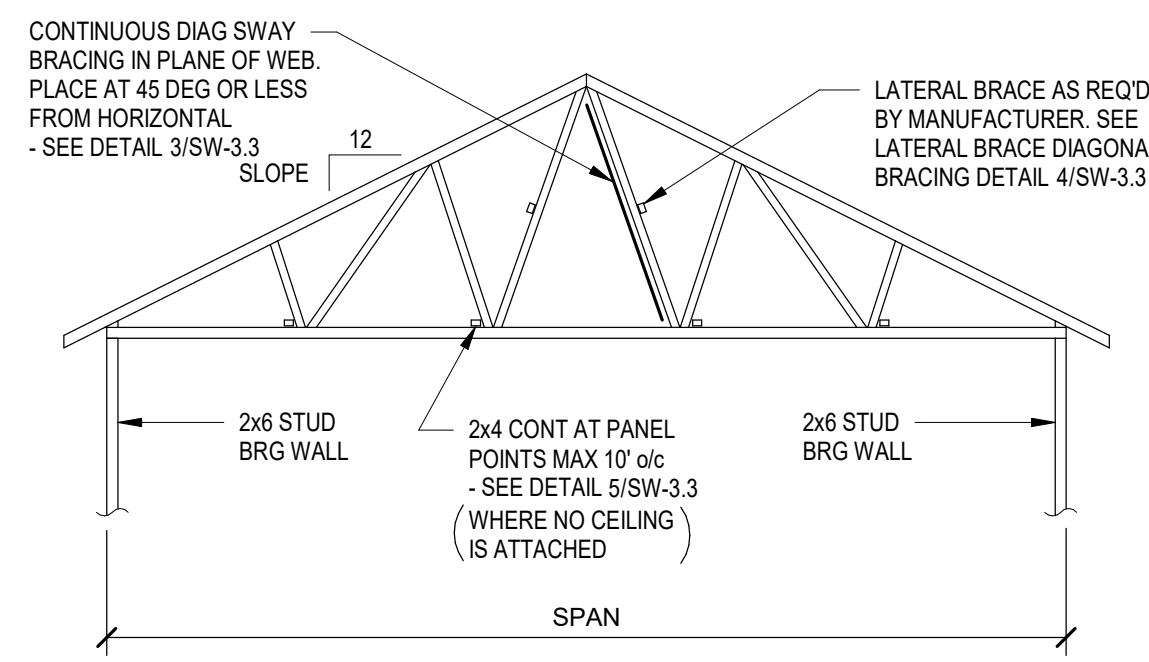
WOOD TRUSS DESIGN NOTES

- VERIFY ALL TRUSS PROFILE DIMENSIONS WITH ARCH DRAWINGS.
- TRUSS CONFIGURATION MAY VARY TO SUIT MANUFACTURER.
- SEE TYPICAL TRUSS BRACING DETAILS THIS SHEET. ADDITIONAL BRACING MAY BE REQUIRED BY THE TRUSS MANUFACTURER. MEET ALL MANUFACTURER BRACING REQUIREMENTS AND CURRENT TRUSS PLATE INSTITUTE (TPI) STANDARDS. CONTINUOUS LATERAL BRACING (PER TRUSS MANUFACTURER) SHALL BE 2x4 MINIMUM SIZE AND SHALL BE NAILED TO ALL CROSSING TRUSSES WITH 2-16d COMMON. BRACING SHALL BE OVERLAPPED ONE TRUSS SPACING MINIMUM AT SPLICES.
- TRUSS DESIGNER TO DESIGN ALL TRUSS-TO-TRUSS CONNECTIONS.
- ROOF TRUSSES SHALL BE BOTTOM CHORD BEARING TRUSSES, UNLESS NOTED OTHERWISE IN SECTIONS.
- TRUSSES SHALL BE DESIGNED TO SUPPORT THE FOLLOWING LOADS IN ACCORDANCE WITH 2015 IBC:

ROOF DESIGN LOADS:

TOP CHORD	DEAD LOAD	= 15 PSF (INCLUDING 6 PSF FOR RACK-MOUNTED SOLAR)
	SNOW LOAD	= 53 PSF (8:12 SLOPE), 44 PSF (10:12 SLOPE)
	WIND LOAD	= MWFRS: 15 PSF (UPLIFT, 10W)
BOTTOM CHORD	DEAD LOAD	= 10 PSF
	LIVE LOAD	= 10 PSF WITH CLEAR HT LESS THAN 42 INCHES
		= 20 PSF WITH CLEAR HT GREATER THAN 42 INCHES

ROOF TRUSSES SHALL BE DESIGNED FOR AN UNBALANCED SNOW LOAD IN ADDITION TO THE LOADS NOTED ABOVE.
 IN ADDITION TRUSS BOTTOM CHORDS ONLY SHALL BE ADEQUATE TO CARRY A 200 LBS CONCENTRATED LOAD PLACED ANYWHERE. LOAD DURATION FACTOR MAY BE INCREASED TO 1.50 WHEN THIS LOAD IS APPLIED.



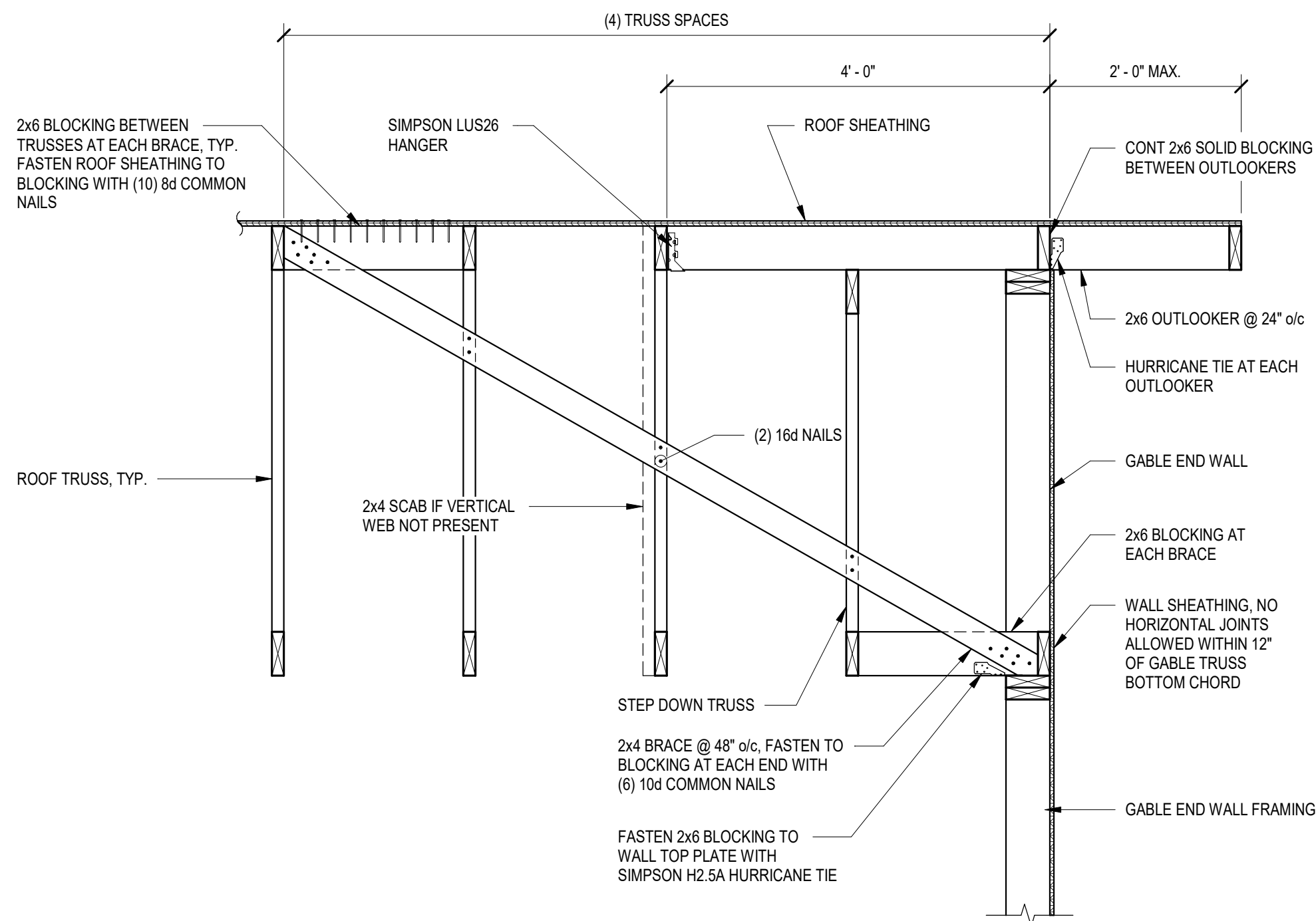
1 WOOD TRUSS DESIGN NOTES
1/8" = 1'-0"

2 TYPICAL WOOD ROOF TRUSS BRACING
1/8" = 1'-0"

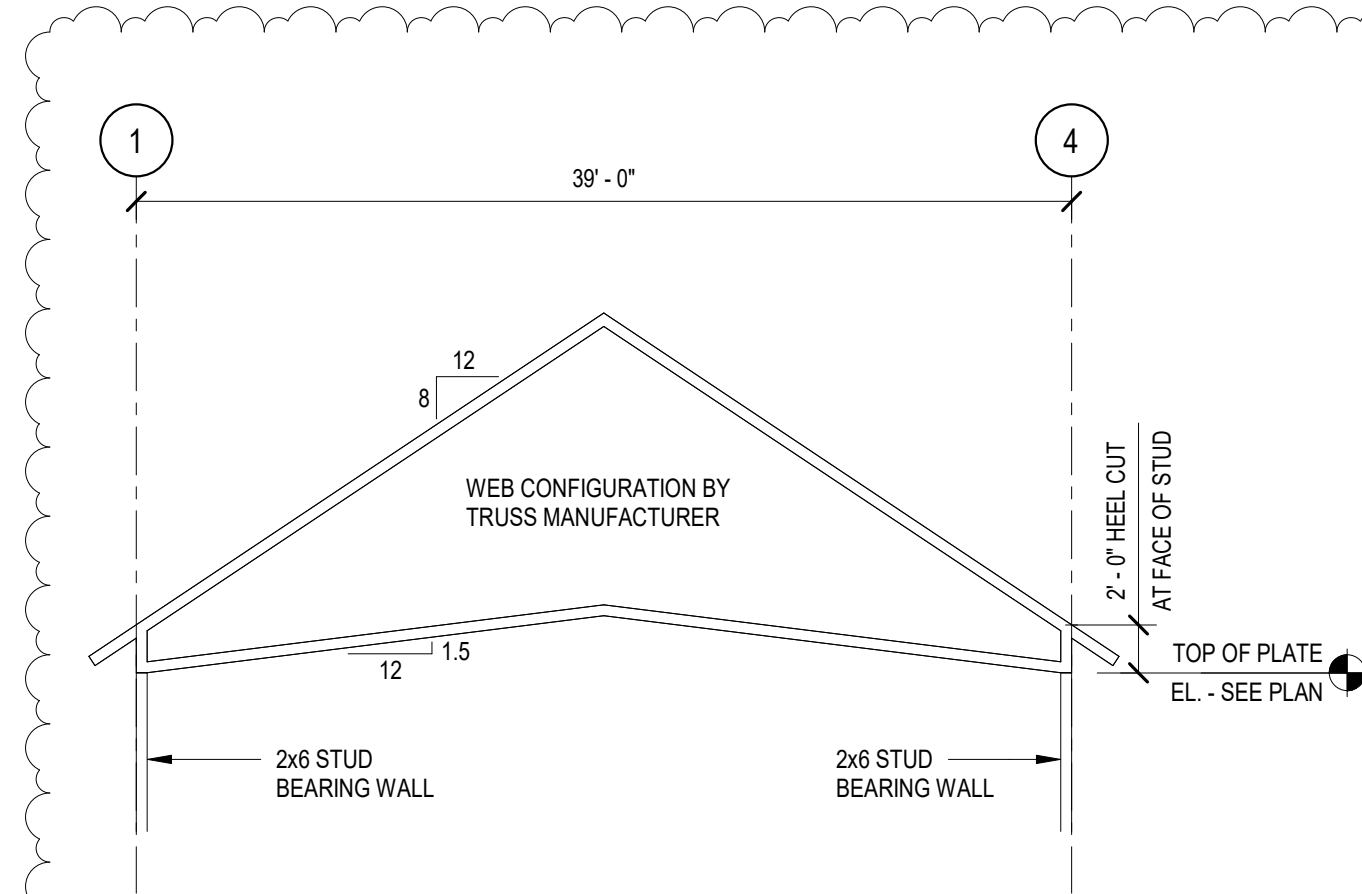
3 CONTINUOUS DIAGONAL SWAY BRACING DETAIL
1/8" = 1'-0"

4 LATERAL BRACE DIAGONAL BRACING DETAIL
1/8" = 1'-0"

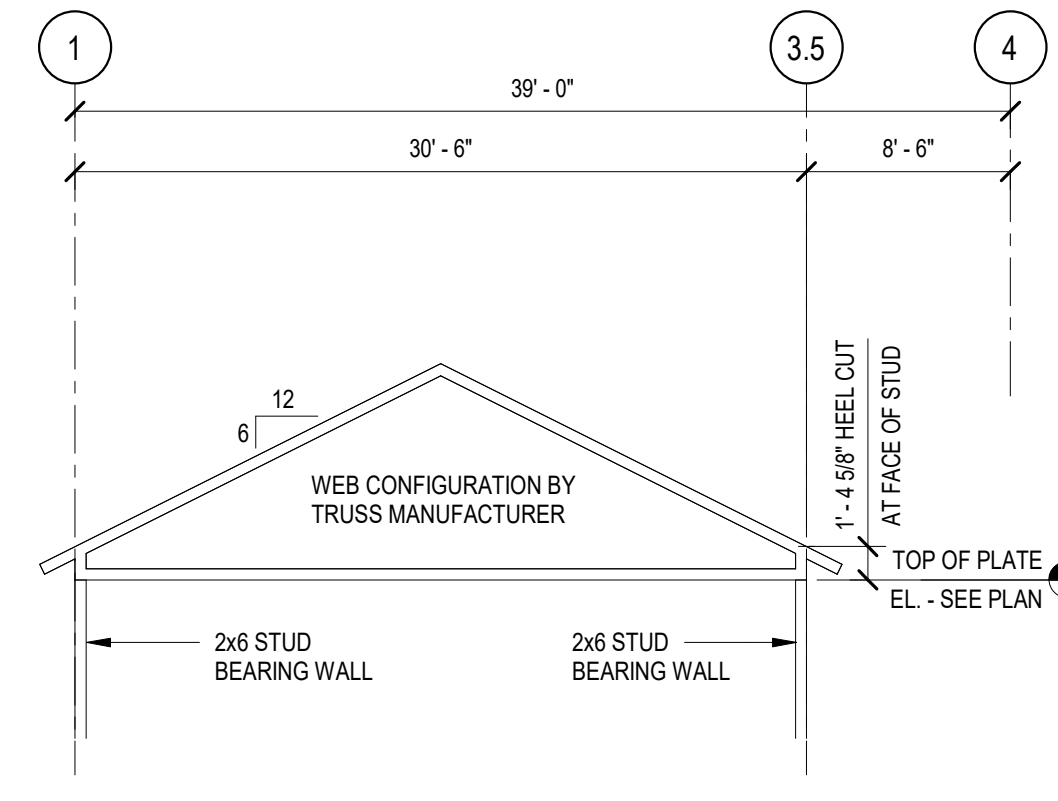
5 WOOD TRUSS BOTTOM CHORD BRACING DETAIL
1/8" = 1'-0"



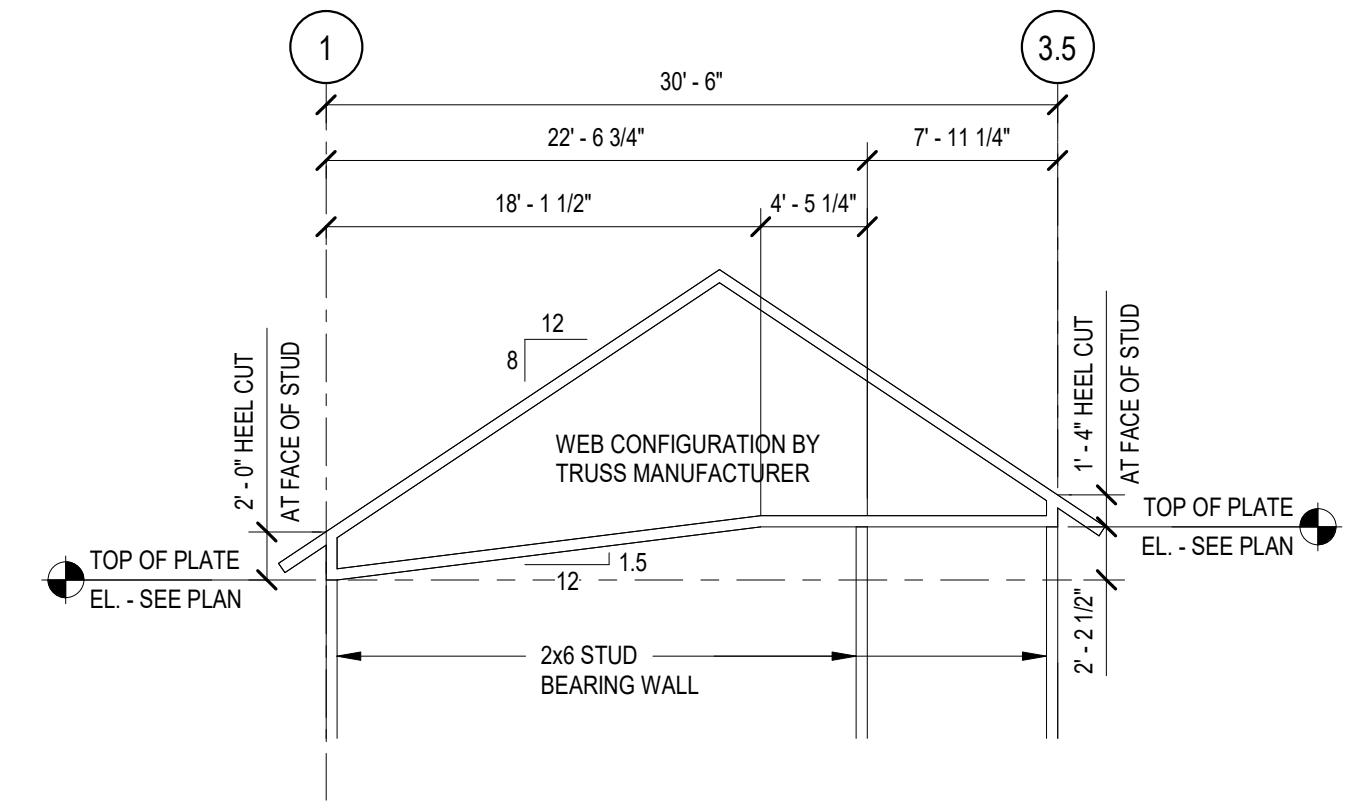
6 TYPICAL GABLE WALL BRACING AT ROOF TRUSS
3/4" = 1'-0"



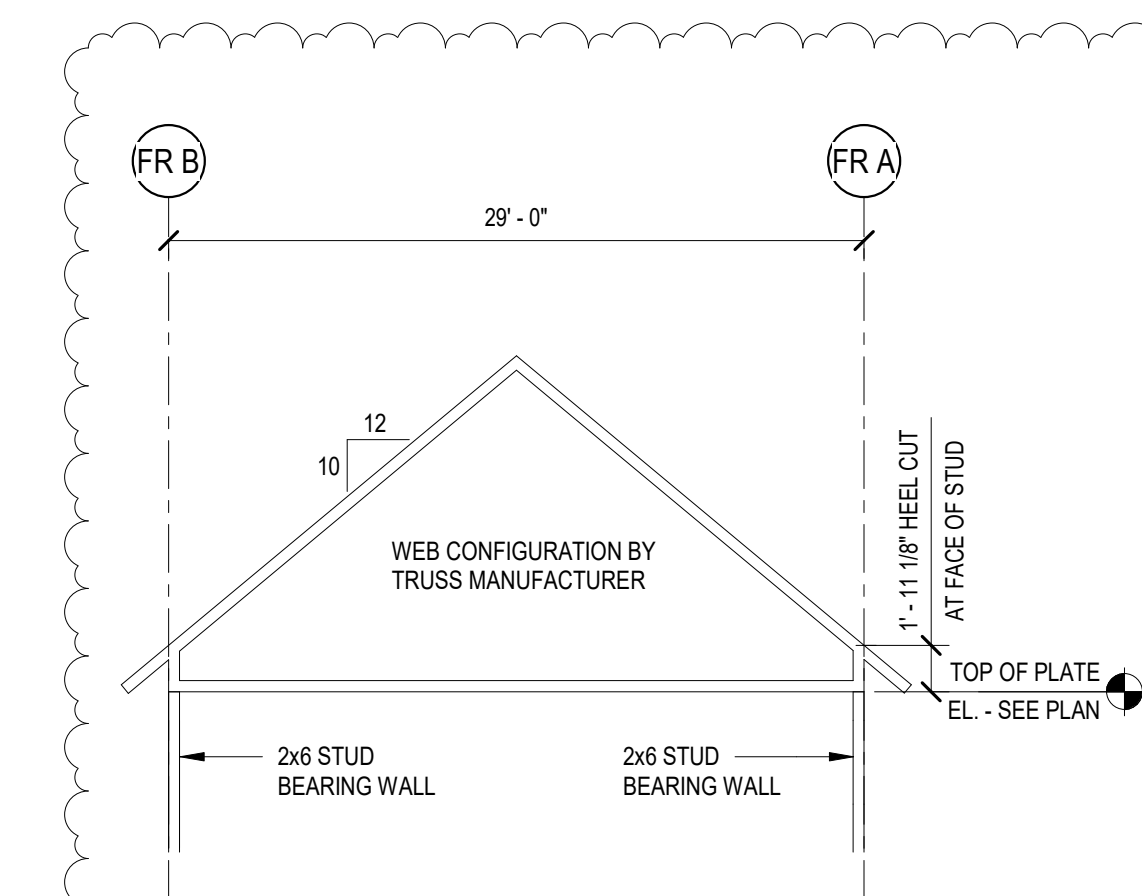
7 TYPE A TRUSS
1/8" = 1'-0"



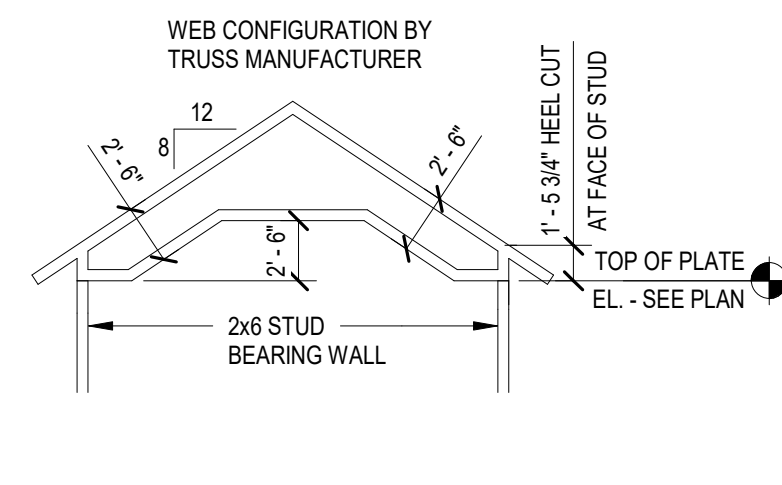
8 TYPE B TRUSS
1/8" = 1'-0"



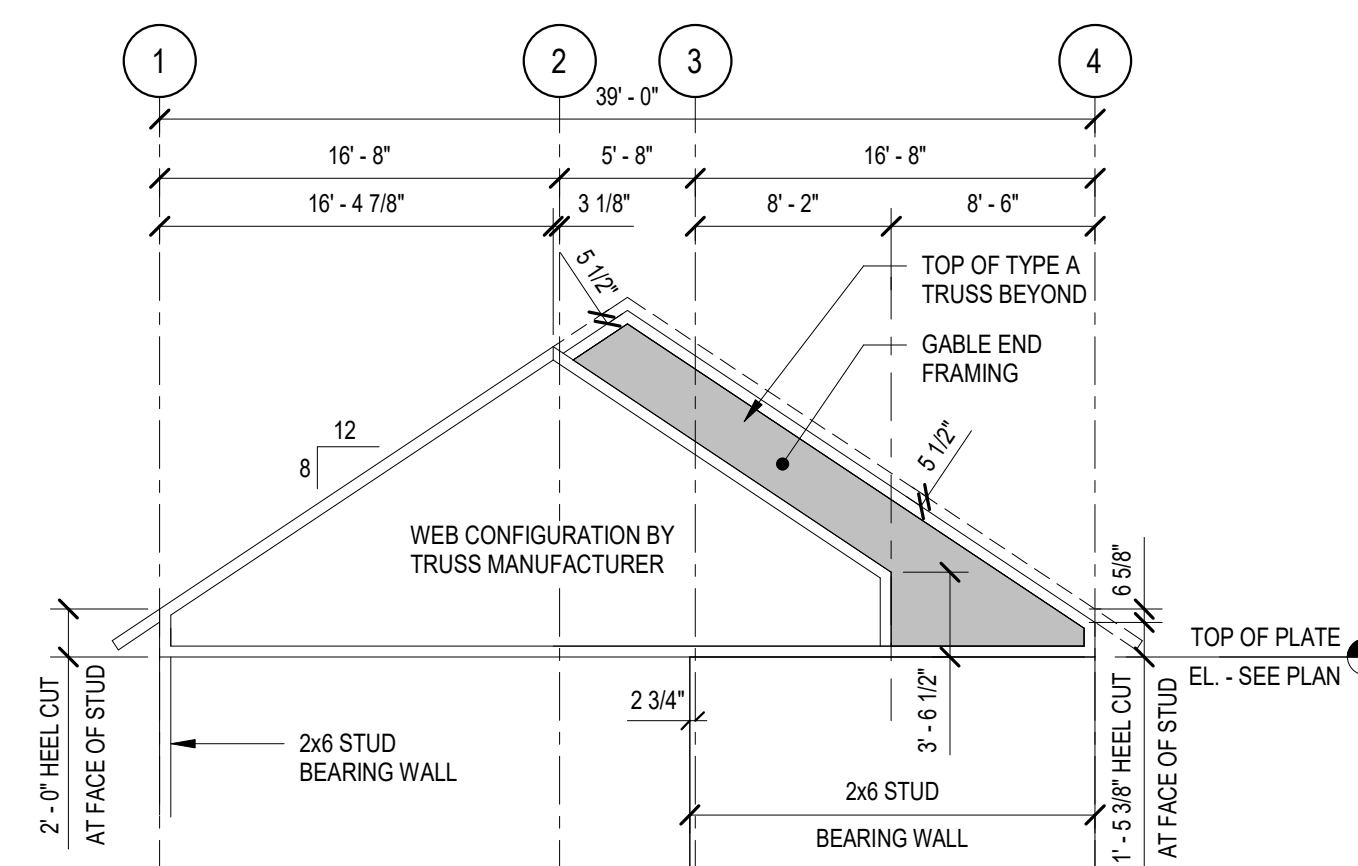
9 TYPE C TRUSS
1/8" = 1'-0"



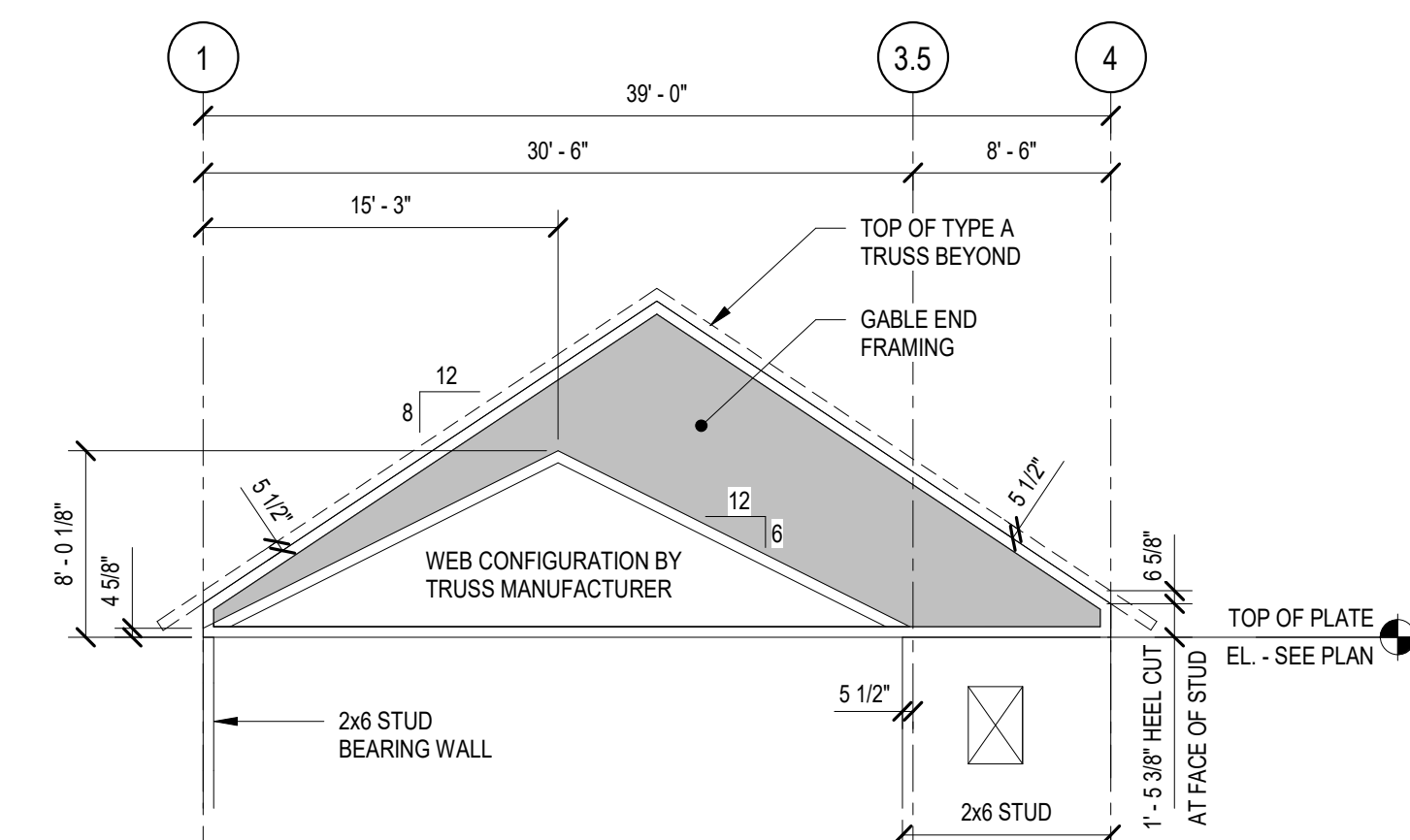
10 TYPE D TRUSS
1/8" = 1'-0"



11 TYPE E TRUSS
1/8" = 1'-0"



12 TYPE F TRANSITION GABLE TRUSS
1/8" = 1'-0"



13 TYPE G TRANSITION GABLE TRUSS
1/8" = 1'-0"

#	Date	Description
1	05/15/23	Scope Changes to Bid Set #1

PERMIT SET
 05/15/2023

KUA DORM PROJECT
 MAY 12, 2023



KUA
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TYPICAL TRUSS
 DETAILS

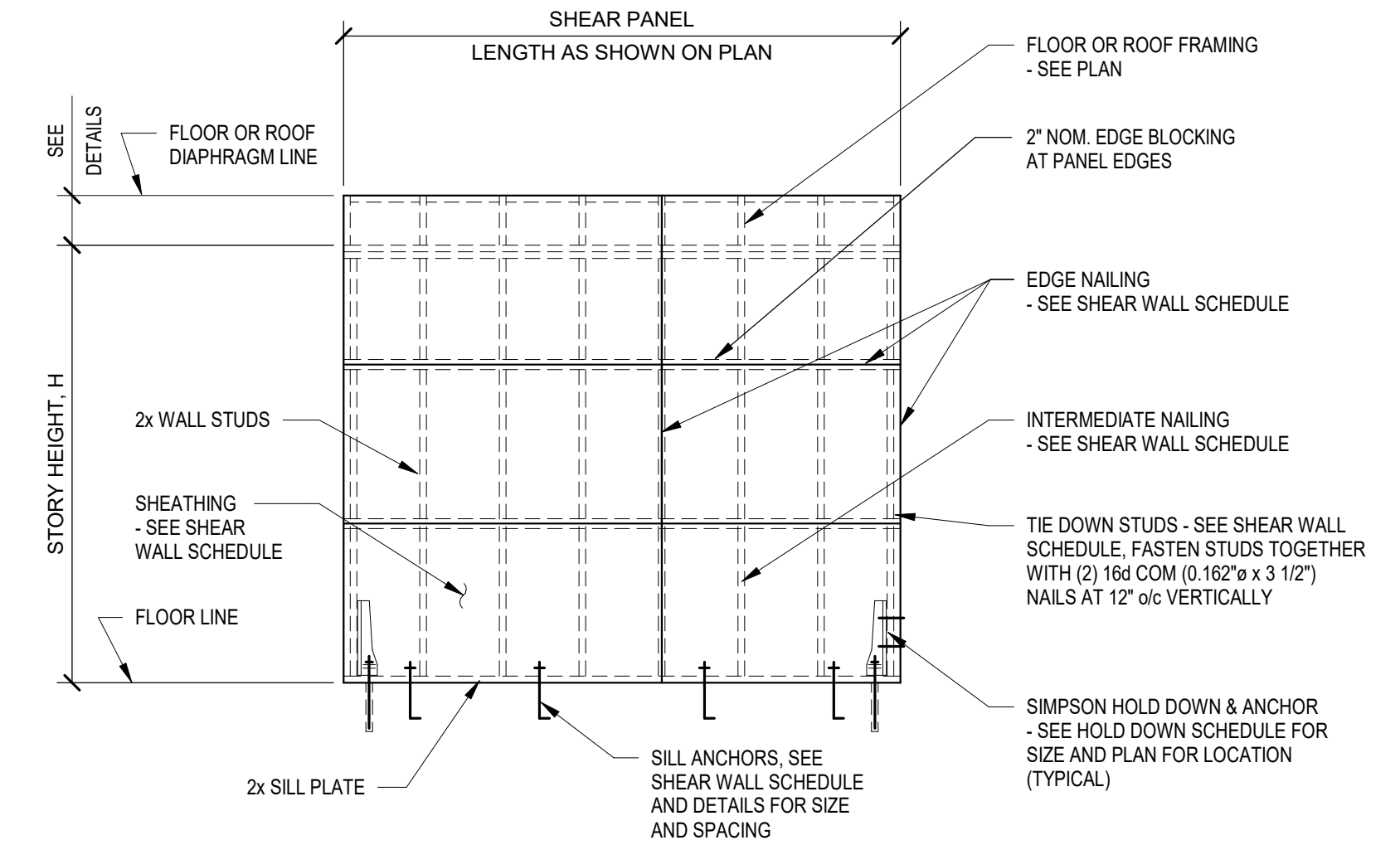
SW-3.3

SHEAR WALL SCHEDULE						
WALL MARK	SHEATHING	NAILING		MINIMUM TIE DOWN STUDS ⁸	BOTTOM PLATE ATTACHMENT	SILL ANCHORS
		AT PANEL EDGES	AT INTERMEDIATE SUPPORTS			
SW1	1/2" THICK ON ONE FACE	8d NAILS AT 6"oc	8d NAILS AT 12"oc	(2) 2x	(2) 16d COMMON NAILS AT 8"oc	1/2"Ø AT 32"oc
SW2	1/2" THICK ON ONE FACE	8d NAILS AT 4"oc	8d NAILS AT 12"oc	(2) 2x	(2) 16d COMMON NAILS AT 8"oc	1/2"Ø AT 24"oc
SW3	1/2" THICK ON ONE FACE	8d NAILS AT 3"oc	8d NAILS AT 12"oc	(2) 2x	(2) 16d COMMON NAILS AT 6"oc	1/2"Ø AT 16"oc

- NOTES:**
1. PROVIDE BLOCKING AT ALL PANEL EDGES.
 2. ALL STUDS SHALL BE SPF No. 1/ No. 2 OR BETTER.
 3. ALL WALL PLATES SHALL BE No. 1/ No. 2 OR BETTER.
 4. ALL SHEATHING SHALL BE APA RATED.
 5. ALL SHEAR WALLS TO EXTEND FROM FLOOR DIAPHRAGMS TO FLOOR OR ROOF DIAPHRAGMS.
 6. PROVIDE MINIMUM TIE DOWN STUDS UNLESS END POST NOTED OTHERWISE ON PLAN.
 7. FASTENERS: 8d COMMON (0.131"Ø x 1 1/2")
16d COMMON (0.162"Ø x 3 1/2")

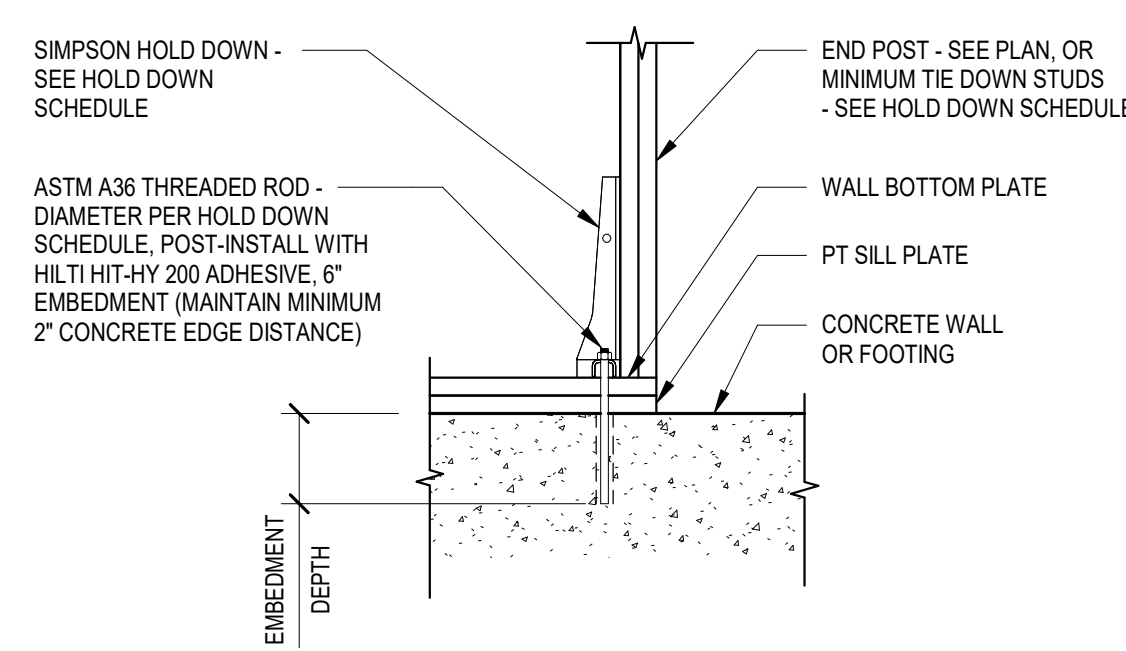
HOLD DOWN SCHEDULE				
MARK	HOLD DOWN	MINIMUM TIE DOWN STUDS ²	THREADED ROD ANCHOR	FASTENERS
HD1	DTT2Z-SDS2.5	(2) 2x	1/2"Ø THREADED ROD	(8) 1/4" x 2 1/2" SDS SCREWS
HD2	HTT4	(2) 2x	5/8"Ø THREADED ROD	(16) #10 x 1 1/2" SCREWS
HD3	HTT5KT	(2) 2x	5/8"Ø THREADED ROD	(26) #10 x 2 1/2" SCREWS
HD4	HDU8-SDS2.5	(3) 2x	7/8"Ø THREADED ROD	(20) 1/4" x 2 1/2" SDS SCREWS

- NOTES:**
1. HOLD DOWNS BY SIMPSON STRONG-TIE.
 2. PROVIDE MINIMUM TIE DOWN STUDS UNLESS END POST NOTED OTHERWISE ON PLAN.
 3. SEE TYPICAL HOLD DOWN DETAILS ON THIS SHEET.
 4. SEE PLAN FOR HOLD DOWN LOCATIONS.

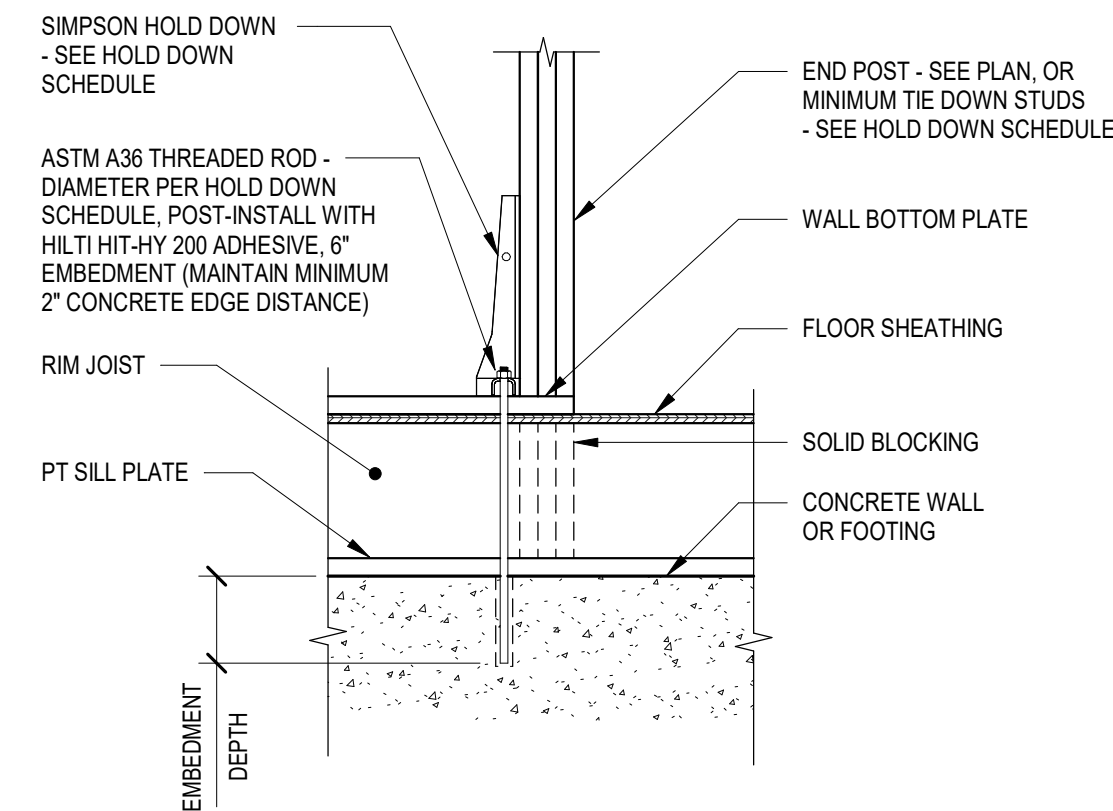


1 TYPICAL SHEAR PANEL DETAIL
1/8" = 1'-0"

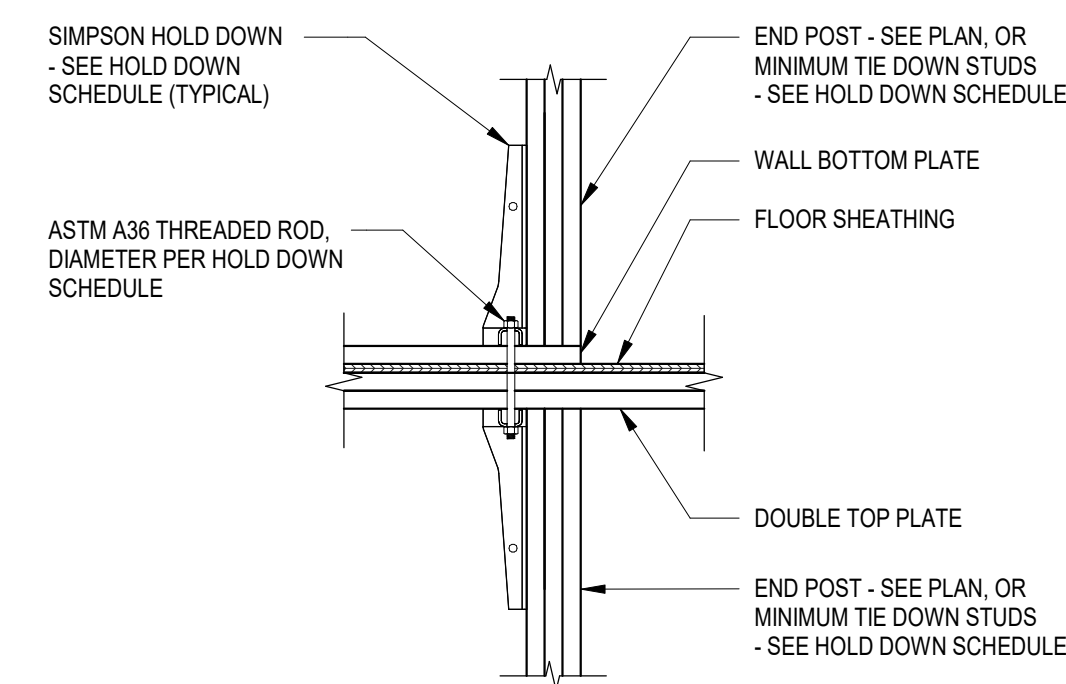
- NOTES:**
1. PROVIDE BLOCKING AT ALL PANEL EDGES.
 2. ALL STUDS SHALL BE SPF No. 1/ No. 2 OR BETTER.
 3. ALL WALL PLATES SHALL BE No. 1/ No. 2 OR BETTER.
 4. ALL SHEATHING SHALL BE APA RATED.
 5. ALL SHEAR WALLS TO EXTEND FROM FLOOR DIAPHRAGMS TO FLOOR OR ROOF DIAPHRAGMS.



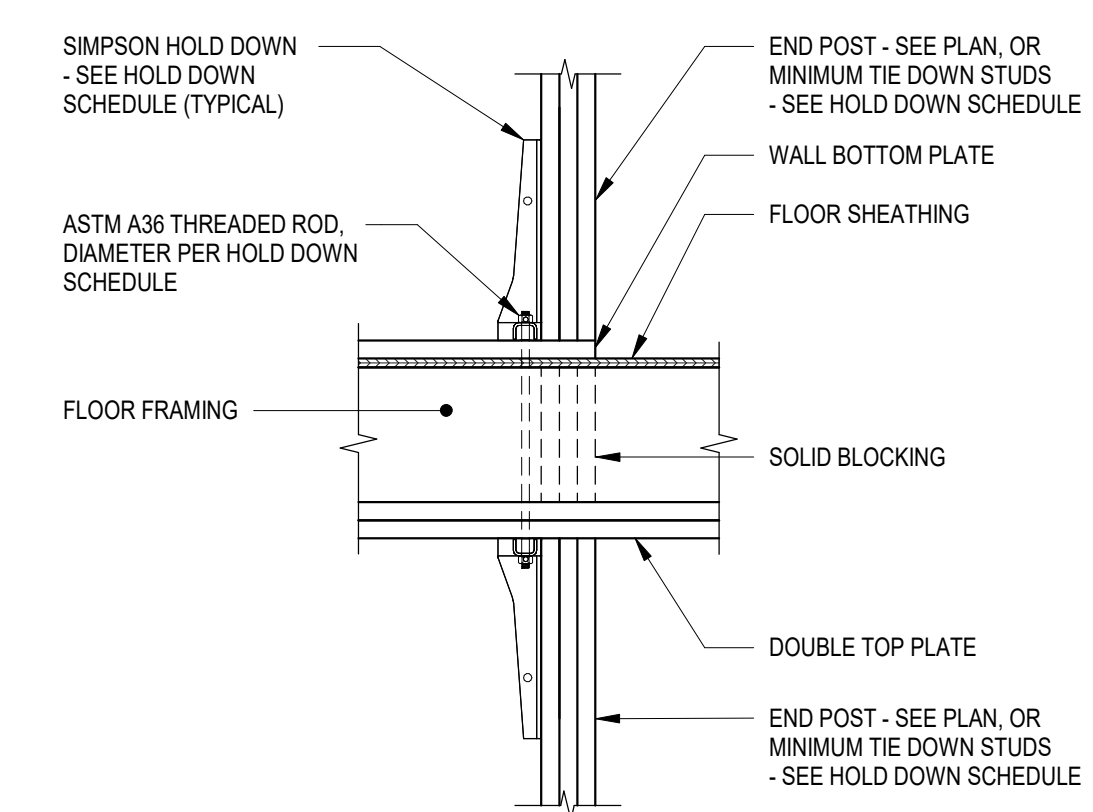
2 TYPICAL SHEAR WALL HOLD DOWN DETAIL
3/4" = 1'-0"



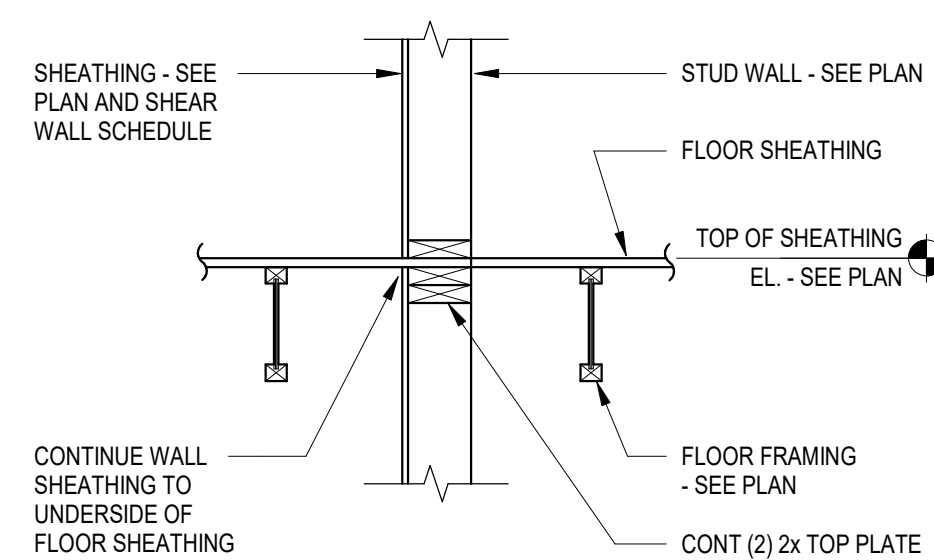
3 TYPICAL SHEAR WALL HOLD DOWN
3/4" = 1'-0"



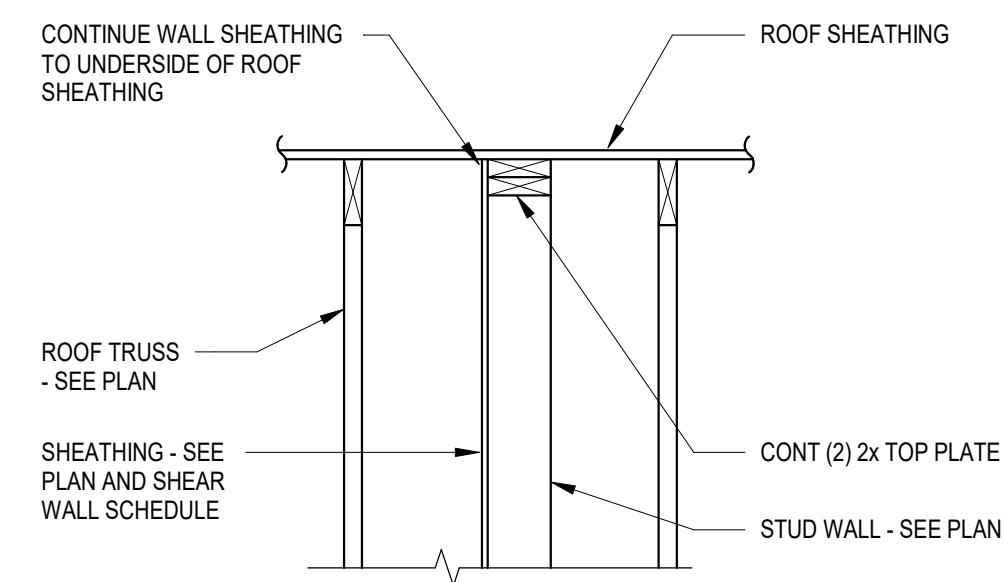
4 TYPICAL SHEAR WALL HOLD DOWN
3/4" = 1'-0"



5 TYPICAL SHEAR WALL HOLD DOWN
3/4" = 1'-0"



6 INTERIOR SHEAR WALL SECTION AT FLOOR
3/4" = 1'-0"



7 INTERIOR SHEAR WALL SECTION AT ROOF
3/4" = 1'-0"



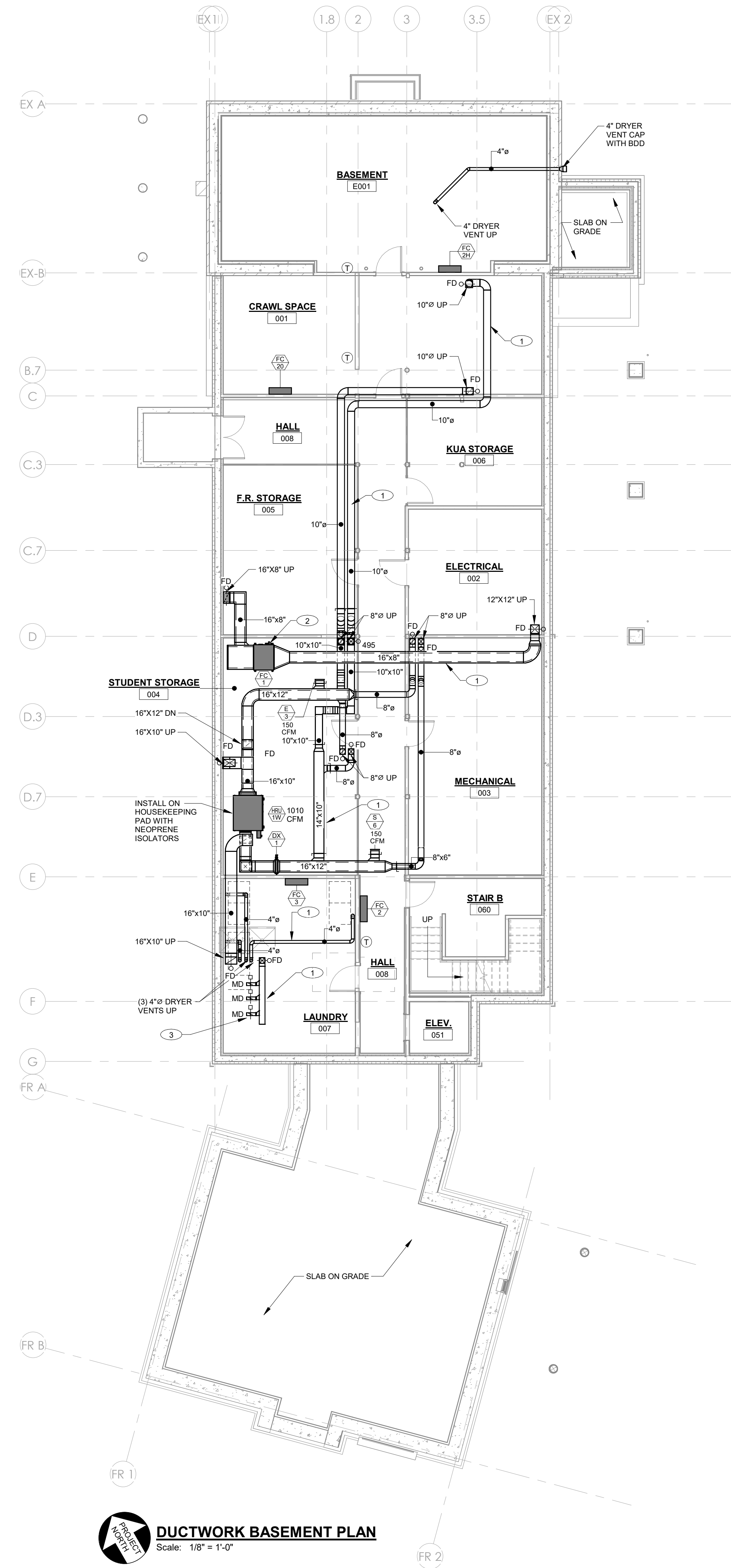
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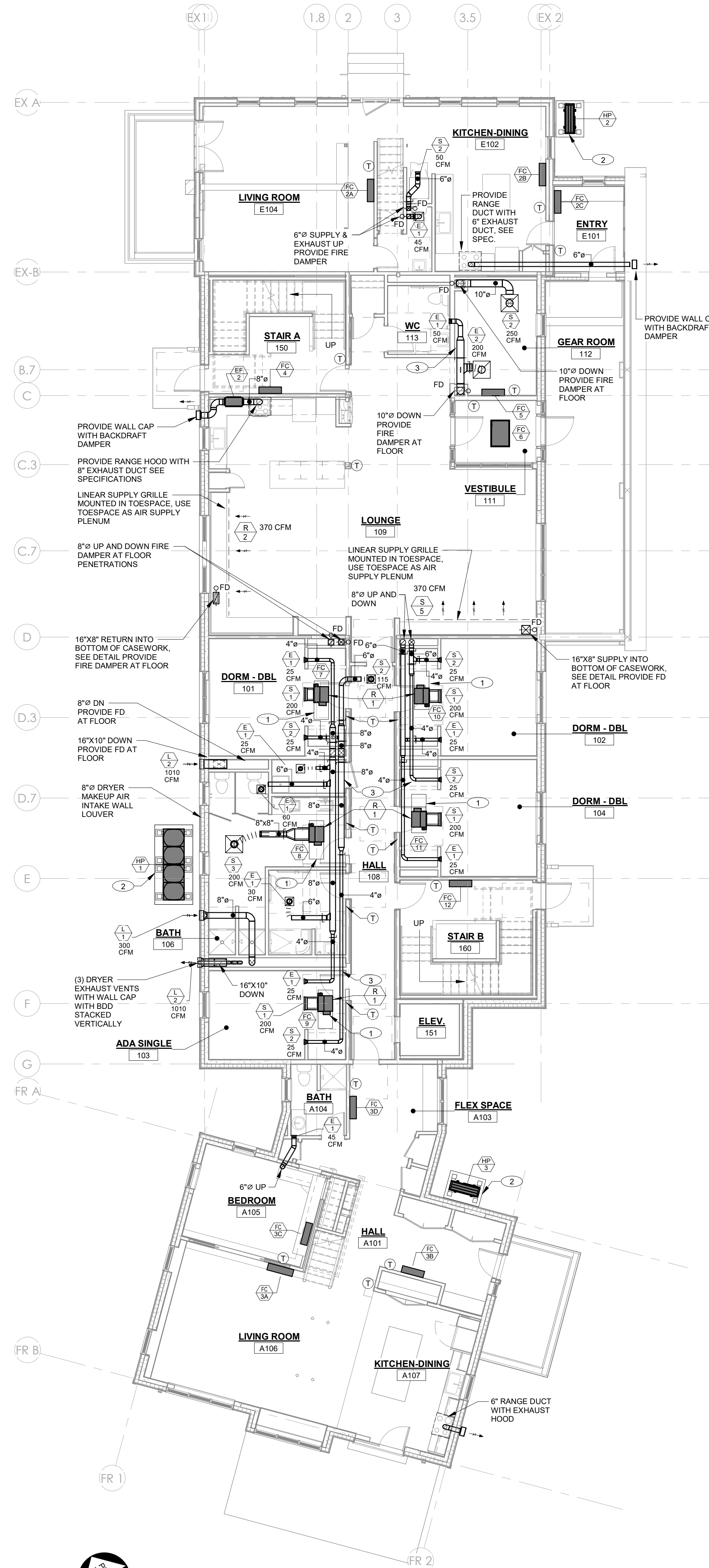
**WELCH BASEMENT
- AIR**

MW-1.1



DUCTWORK BASEMENT PLAN
Scale: 1/8" = 1'-0"

- DRAWING NOTES:**
THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- 1 RUN DUCTWORK AT CEILING AS HIGH AS POSSIBLE. COORDINATE ROUTING WITH ALL OTHER TRADES.
 - 2 HANG UNIT FROM CEILING USING NEOPRENE ISOLATORS.
 - 3 PROVIDE MOTORIZED DAMPER AT CEILING FOR DRYER COMBUSTION AIR. PROVIDE 1/4"X1/4" GALVANIZED SCREEN OVER DUCT OPENING. INTERLOCK DAMPER WITH DRYER OPERATION. INSULATE ALL MAKE-UP AIR DUCTWORK.



- DRAWING NOTES:**
 THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- 1 PROVIDE LOCKABLE 16"x16" CEILING ACCESS PANEL BELOW UNIT TO PERMIT SERVICE AND ACCESS TO CONCEALED FAN COIL UNIT.
 - 2 INSTALL HEAT PUMP UNIT ON CONCRETE BASE PAD. INSTALL ON 18" HIGH WALL SUPPORT STAND. BUILDING CONTRACTOR TO CONSTRUCT PROTECTIVE ROOF STRUCTURE OVER THE HEAT PUMP UNIT.
 - 3 RUN ALL DUCTWORK IN SOFFIT. PROVIDE CABLE OPERATED VOLUME DAMPERS FOR ALL GRILLES, REGISTERS AND DIFFUSERS.



ANDREA MURRAY, AIA, NCARB, LEED AP
 andrea@vermontintegratedarchitecture.com

ASHAR NELSON, AIA, LEED AP
 ashar@vermontintegratedarchitecture.com

P.O. Box 862
 Middlebury, VT 05753
 802.989.7249

CIVIL ENGINEER
 Kevin Worden, P.E.
 Engineering Ventures
 kevinw@engineeringventures.com
 802.863.6225

STRUCTURAL ENGINEER
 Bob Neeld, P.E. President
 Engineering Ventures
 bobn@engineeringventures.com
 802.863.6225

MECH./PLUMBING ENGINEER
 Daniel Dupros, P.E.
 Engineering Services of Vermont, LLC
 daniel.dupros@esvllc.com
 802.885.8091

ELECTRICAL ENGINEER
 Claus Bartenstein, P.E., LEED-AP
 Engineering Services of Vermont, LLC
 claus.bartenstein@esvllc.com
 802.885.8091

CONSTRUCTION MANAGER
 NAME & TITLE
 ReArch Company, Inc.
 EMAIL HERE
 802.863.6727

DATE ISSUED: 02/15/23
 Drawn: SEF/DWD
 Checked: DWD

REVISIONS:



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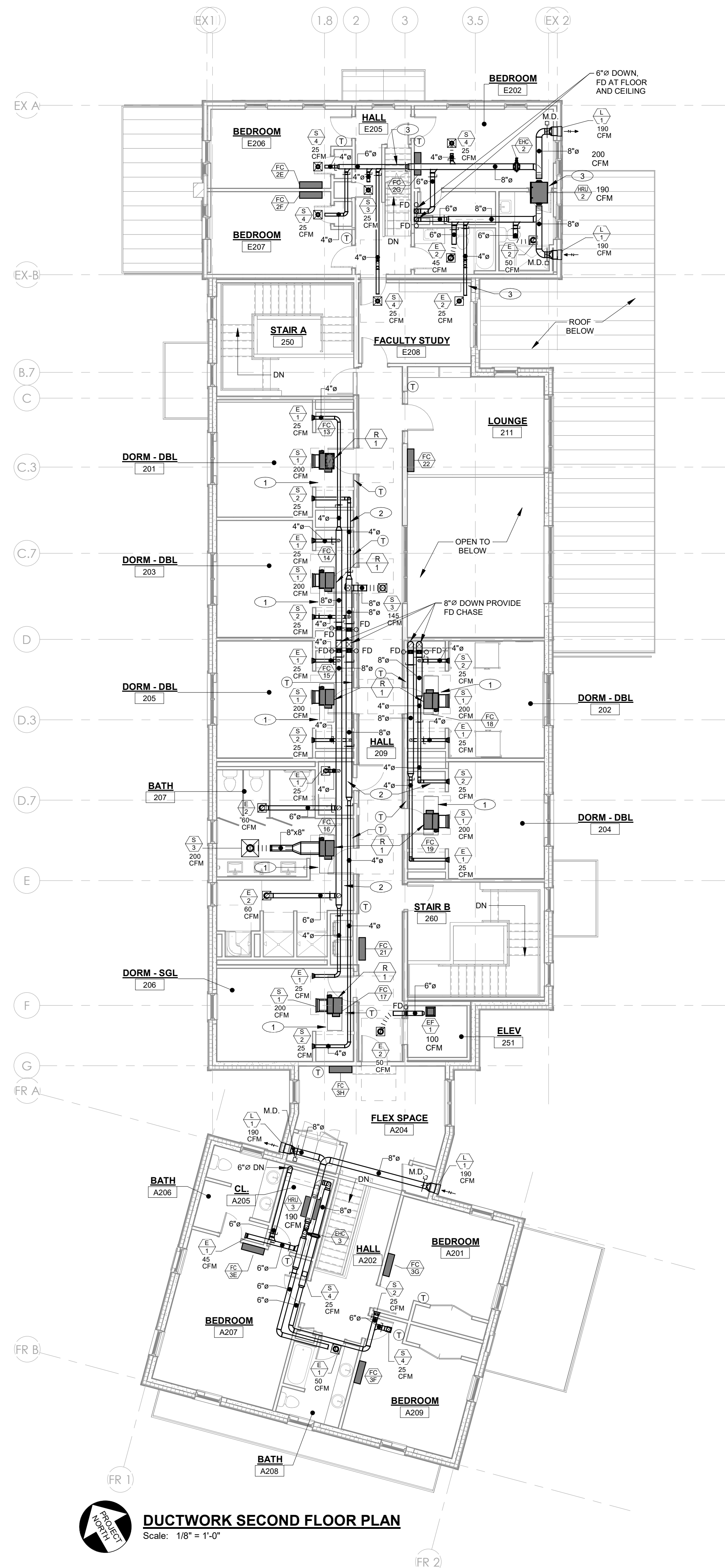
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**WELCH FIRST
 FLOOR - AIR**

MW-1.2

DUCTWORK FIRST FLOOR PLAN
 Scale: 1/8" = 1'-0"



- DRAWING NOTES:**
 THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- 1 PROVIDE LOCKABLE 18"X18" CEILING ACCESS PANEL BELOW UNIT TO PERMIT SERVICE AND ACCESS TO CONCEALED FAN COIL UNIT.
 - 2 RUN ALL DUCTWORK IN SOFFIT. PROVIDE CABLE OPERATED VOLUME DAMPERS FOR ALL GRILLES, REGISTERS AND DIFFUSERS.
 - 3 LOCATE HEAT RECOVERY UNIT AND DUCTWORK IN ATTIC. HANG HEAT RECOVERY UNIT WITH NEOPRENE ISOLATOR HANGERS.

DUCTWORK SECOND FLOOR PLAN
 Scale: 1/8" = 1'-0"



ANDREA MURRAY, AIA, NCARB, LEED AP
 andrea@vermontintegratedarchitecture.com

ASHAR NELSON, AIA, LEED AP
 ashar@vermontintegratedarchitecture.com

P.O. Box 862
 Middlebury, VT 05753
 802.989.7249

CIVIL ENGINEER
 Kevin Worden, P.E.
 Engineering Ventures
 kevinw@engineeringventures.com
 802.863.6225

STRUCTURAL ENGINEER
 Bob Neeld, P.E. President
 Engineering Ventures
 bobn@engineeringventures.com
 802.863.6225

MECH./PLUMBING ENGINEER
 Daniel Dupras, P.E.
 Engineering Services of Vermont, LLC
 daniel.dupras@esvllc.com
 802.885.8091

ELECTRICAL ENGINEER
 Claus Bartenstein, P.E., LEED-AP
 Engineering Services of Vermont, LLC
 claus.bartenstein@esvllc.com
 802.885.8091

CONSTRUCTION MANAGER
 NAME & TITLE
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 EMAIL HERE
 802.863.6727

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**WELCH SECOND
 FLOOR - AIR**

MW-1.3



VERMONT INTEGRATED ARCHITECTURE, PC

ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com

ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
802.989.7249

CIVIL ENGINEER

Kevin Worden, P.E.
Engineering Ventures
kevinw@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E. President
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER

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daniel.dupras@esvllc.com
802.885.8091

ELECTRICAL ENGINEER

Claus Bartenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.bartenstein@esvllc.com
802.885.8091

CONSTRUCTION MANAGER

NAME & TITLE
ReArch Company, Inc.
EMAIL HERE
802.863.8727

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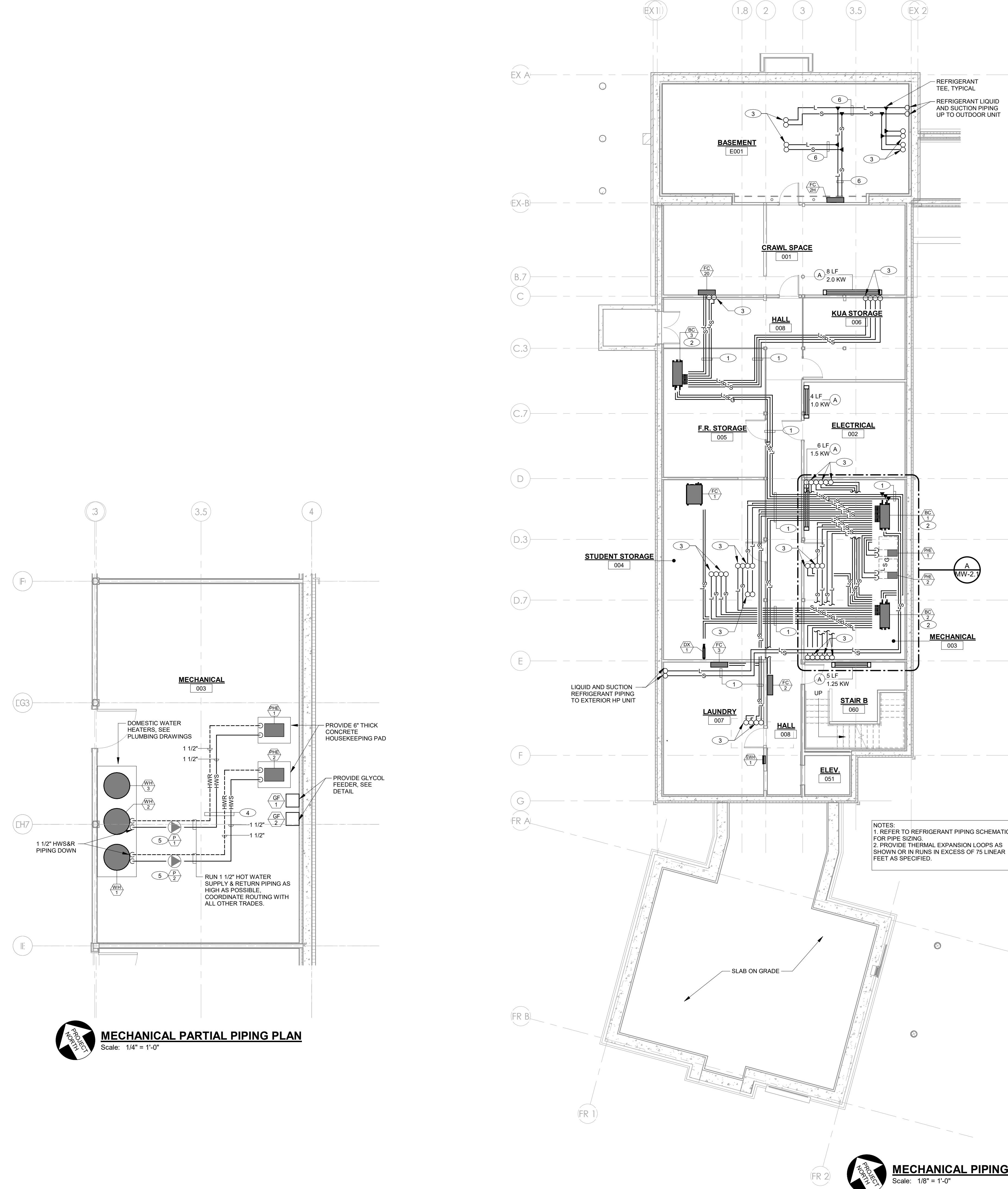
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WELCH BASEMENT
- PIPING

MW-2.1



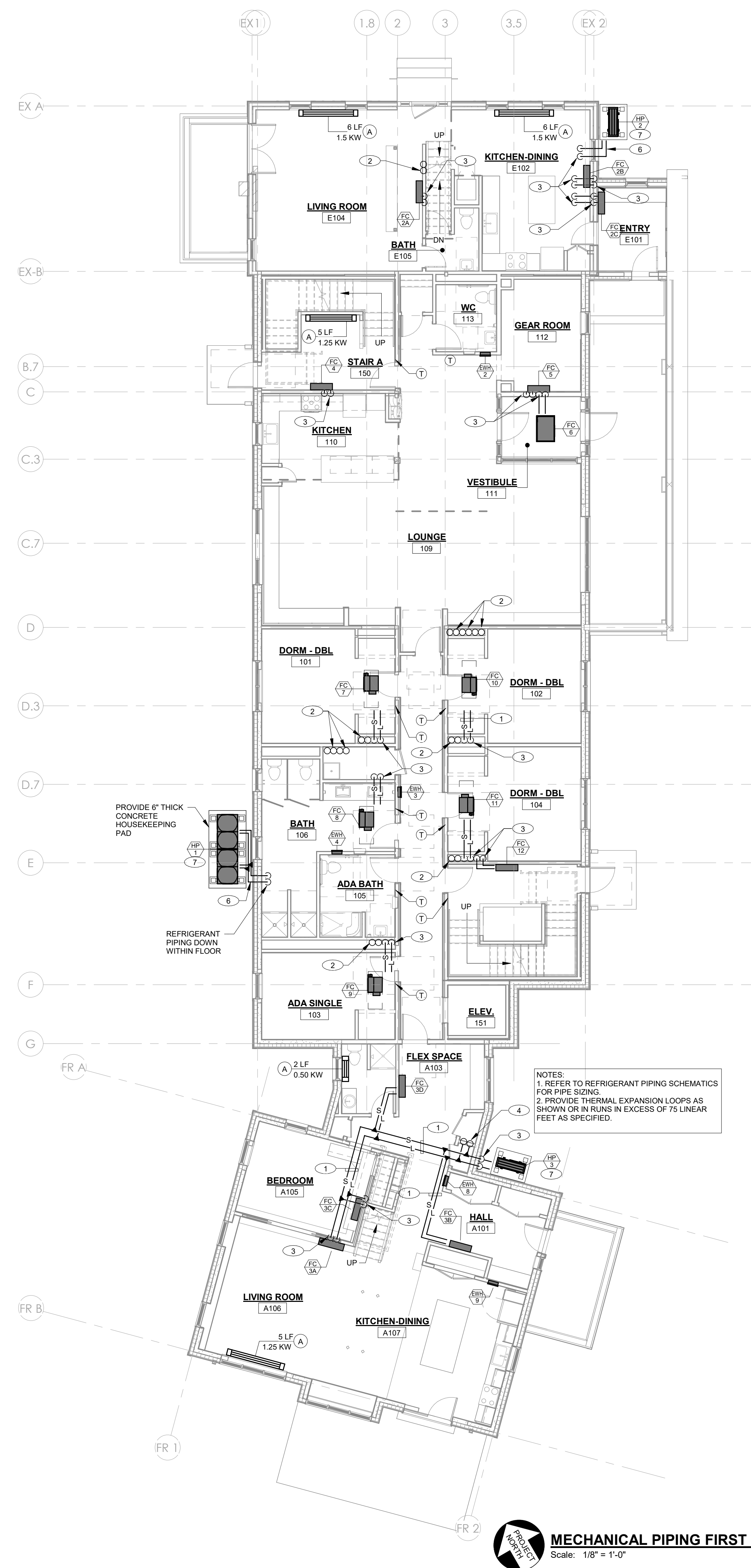
NOTES:
1. REFER TO REFRIGERANT PIPING SCHEMATICS FOR PIPE SIZING.
2. PROVIDE THERMAL EXPANSION LOOPS AS SHOWN OR IN RUNS IN EXCESS OF 75 LINEAR FEET AS SPECIFIED.

DRAWING NOTES:

- THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- 1 REFRIGERANT PIPING RUN AS HIGH AS POSSIBLE AT BASEMENT CEILING. INSULATE AS SPECIFIED. PROVIDE ADDITIONAL JACKETING AS SPECIFIED ON ALL EXPOSED INSULATION.
 - 2 BRANCH CONTROL BOX MOUNTED AT CEILING PROVIDED WITH THREADED RODS AND NEOPRENE ISOLATORS. MAINTAIN MANUFACTURERS CLEARANCE REQUIREMENTS.
 - 3 REFRIGERANT LIQUID AND SUCTION PIPING UP. COORDINATE ROUTING WITH ALL OTHER TRADES.
 - 4 1 1/2" HOT WATER SUPPLY AND RETURN PIPING MOUNTED HIGH WITHIN CEILING SPACE. COORDINATE ROUTING WITH ALL OTHER TRADES. INSULATE AS SPECIFIED.
 - 5 PROVIDE IN-LINE HEATING PUMP. SEE PIPING SCHEMATIC.
 - 6 REFRIGERANT PIPING RUN AS HIGH AS POSSIBLE AT BASEMENT CEILING. INSULATE AS SPECIFIED. PROVIDE ADDITIONAL JACKETING AS SPECIFIED ON ALL EXPOSED INSULATION. COORDINATE ROUTING WITH EXISTING CONDITIONS.

MECHANICAL PARTIAL PIPING PLAN
Scale: 1/4" = 1'-0"

MECHANICAL PIPING BASEMENT PLAN
Scale: 1/8" = 1'-0"



DRAWING NOTES:

- THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- 1 REFRIGERANT PIPING RUN ABOVE CEILING, INSULATE AS SPECIFIED AND COORDINATE ROUTING WITH ALL OTHER TRADES. PROVIDE ADDITIONAL JACKETING ON ALL EXPOSED PIPING AS SPECIFIED.
 - 2 REFRIGERANT LIQUID AND SUCTION PIPING UP AND DOWN.
 - 3 REFRIGERANT LIQUID AND SUCTION PIPING DOWN.
 - 4 REFRIGERANT LIQUID AND SUCTION PIPING UP.
 - 5 REFRIGERANT PIPING RUN ABOVE CEILING, INSULATE AS SPECIFIED AND COORDINATE ROUTING WITH EXISTING PIPING AS SPECIFIED. PROVIDE ADDITIONAL JACKETING ON ALL EXPOSED PIPING AS SPECIFIED.
 - 6 EXTERIOR REFRIGERANT PIPING TO BE INSULATED, SUPPORTED, AND PROVIDED WITH ADDITIONAL ALUMINUM JACKETING AS SPECIFIED.
 - 7 OUTDOOR HEAT PUMP UNIT PROVIDED WITH 18" HIGH MINIMUM EQUIPMENT BASE MOUNTED SUPPORT STAND. ANCHOR TO CONCRETE HOUSEKEEPING PAD, SEE DETAIL.

NOTES:
 1. REFER TO REFRIGERANT PIPING SCHEMATICS FOR PIPE SIZING.
 2. PROVIDE THERMAL EXPANSION LOOPS AS SHOWN OR IN RUNS IN EXCESS OF 75 LINEAR FEET AS SPECIFIED.



ANDREA MURRAY, AIA, NCARB, LEED AP
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ASHAR NELSON, AIA, LEED AP
 ashar@vermontintegratedarchitecture.com

P.O. Box 862
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 802.989.7249

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 Engineering Ventures
 kevinw@engineeringventures.com
 802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E. President
 Engineering Ventures
 bobn@engineeringventures.com
 802.863.6225

MECH./PLUMBING ENGINEER

Daniel Dupras, P.E.
 Engineering Services of Vermont, LLC
 daniel.dupras@esvllc.com
 802.885.8091

ELECTRICAL ENGINEER

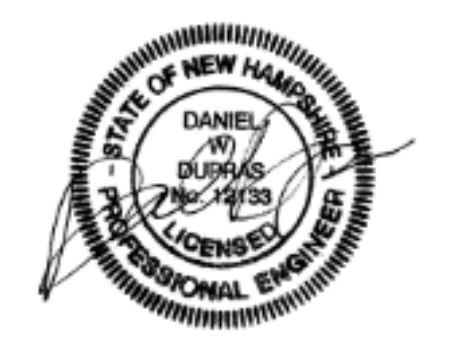
Claus Bartenstein, P.E., LEED-AP
 Engineering Services of Vermont, LLC
 claus.bartenstein@esvllc.com
 802.885.8091

CONSTRUCTION MANAGER

NAME & TITLE
 ReArch Company, Inc.
 EMAIL HERE
 802.863.6727

DATE ISSUED: 05/15/23
 Drawn: SEF/DWD
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PERMIT SET 05/15/2023

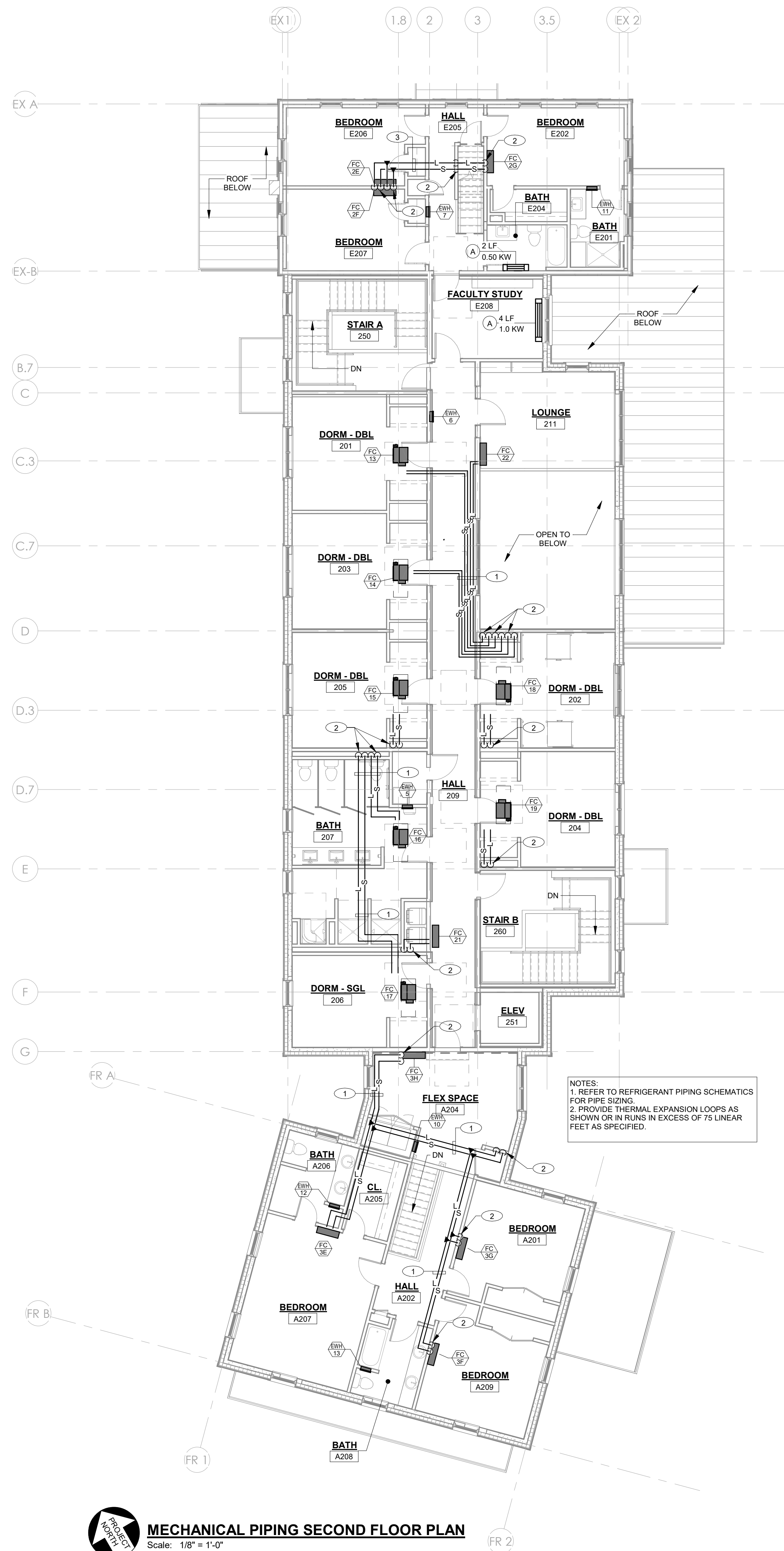
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 Meriden, NH 03770

**WELCH FIRST -
 PIPING**

MW-2.2

MECHANICAL PIPING FIRST FLOOR PLAN
 Scale: 1/8" = 1'-0"



- DRAWING NOTES:**
 THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- ① REFRIGERANT PIPING RUN ABOVE CEILING, INSULATE AS SPECIFIED AND COORDINATE ROUTING WITH ALL OTHER TRADES. PROVIDE ADDITIONAL JACKETING ON ALL EXPOSED PIPING AS SPECIFIED.
 - ② REFRIGERANT LIQUID AND SUCTION PIPING DOWN.
 - ③ REFRIGERANT PIPING RUN ABOVE CEILING, INSULATE AS SPECIFIED AND COORDINATE ROUTING WITH EXISTING CONDITIONS. PROVIDE ADDITIONAL JACKETING ON ALL EXPOSED PIPING AS SPECIFIED.

MECHANICAL PIPING SECOND FLOOR PLAN
 Scale: 1/8" = 1'-0"



ANDREA MURRAY, AIA, NCARB, LEED AP
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ASHAR NELSON, AIA, LEED AP
 ashar@vermontintegratedarchitecture.com

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 Engineering Services of Vermont, LLC
 claus.bartenstein@esvllc.com
 802.885.8091

CONSTRUCTION MANAGER
 NAME & TITLE
 ReArch Company, Inc.
 EMAIL HERE
 802.863.6727

DATE ISSUED: 05/15/23
 Drawn: SEF
 Checked: DWD

REVISIONS:



PERMIT SET 05/15/2023

**KUA
 KILTON/WELCH
 DORMITORIES**
 Main Street
 Meriden, NH 03770

**WELCH SECOND -
 PIPING**

MW-2.3



VERMONT INTEGRATED ARCHITECTURE, PC

ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com

ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
802.989.7249

CIVIL ENGINEER

Kevin Warden, P.E.
Engineering Ventures
kevinw@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E., President
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER

Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvllc.com
802.855.8091

ELECTRICAL ENGINEER

CLAUS BARTENSTEIN, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.bartenstein@esvllc.com
802.855.8091

CONSTRUCTION MANAGER

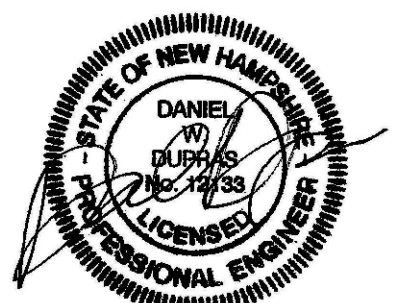
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EMAIL HERE
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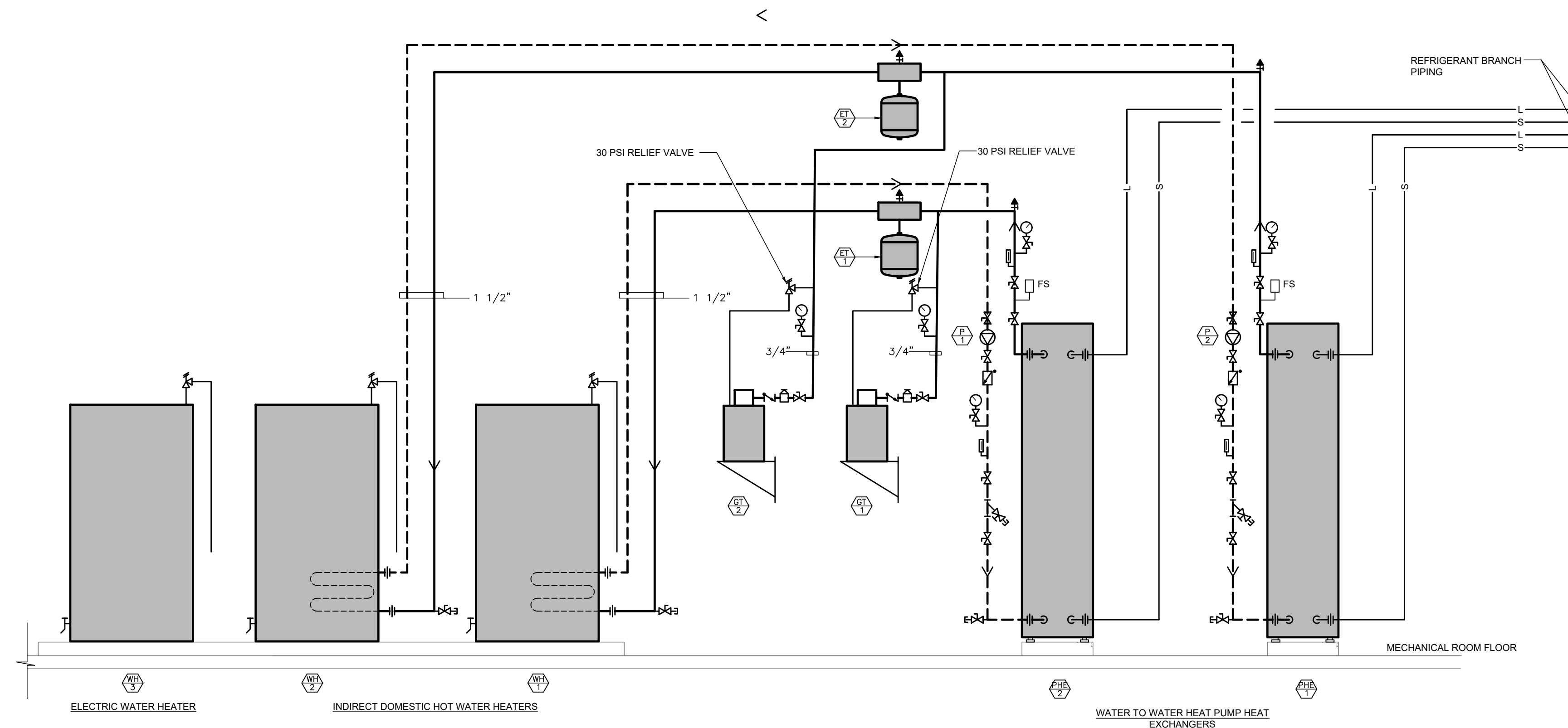


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KILTON/WELCH
DORMITORIES**

Main Street
Meriden, NH 03770
**MECHANICAL
DETAILS**

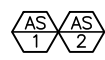

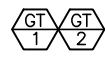
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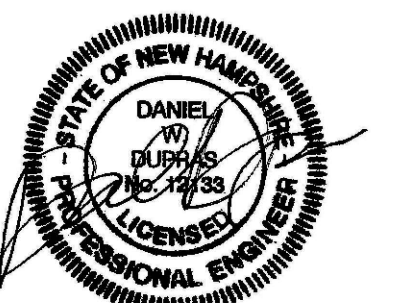


HOT WATER SYSTEM PIPING DIAGRAM

NOT TO SCALE

EQUIPMENT LIST

-  AMTROL MODEL 445 AIR SCOOP WITH AIR VENT-SIZE 1 1/2"
-  AMTROL MODEL EX-60 EXPANSION TANK
-  AXIOM MODEL MF200, 6 GALLON TANK WITH PUMP, TANK MOUNTING SHELF



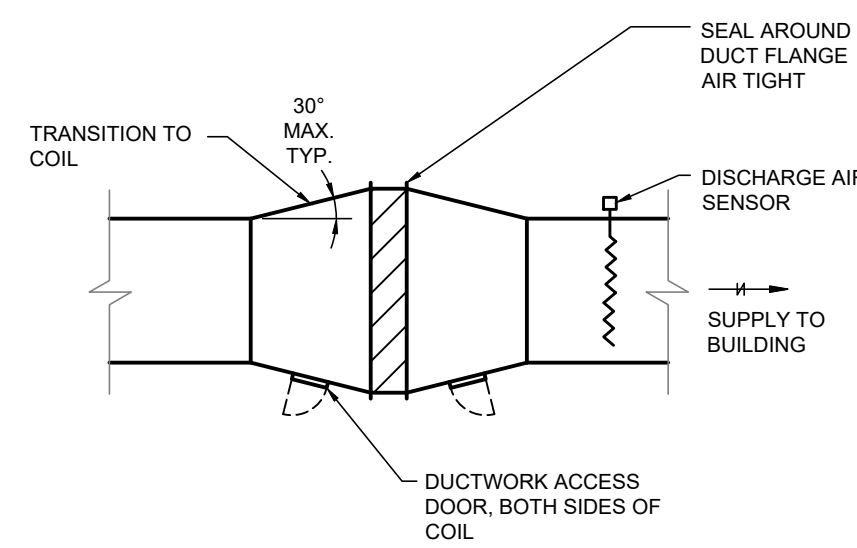
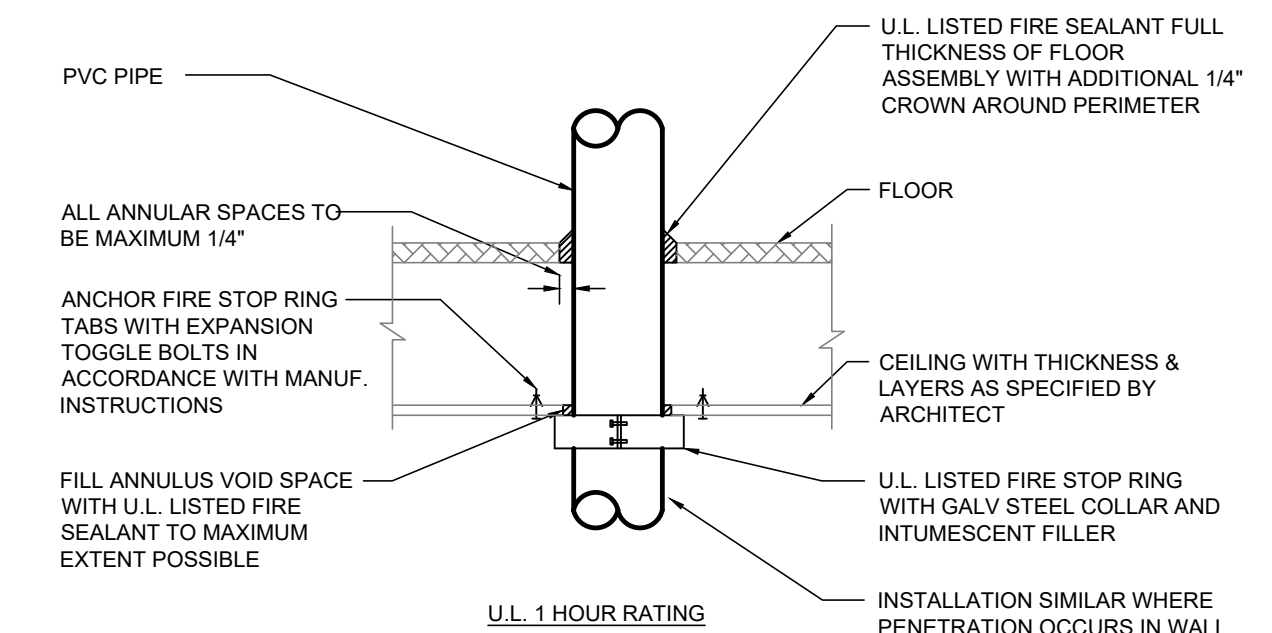
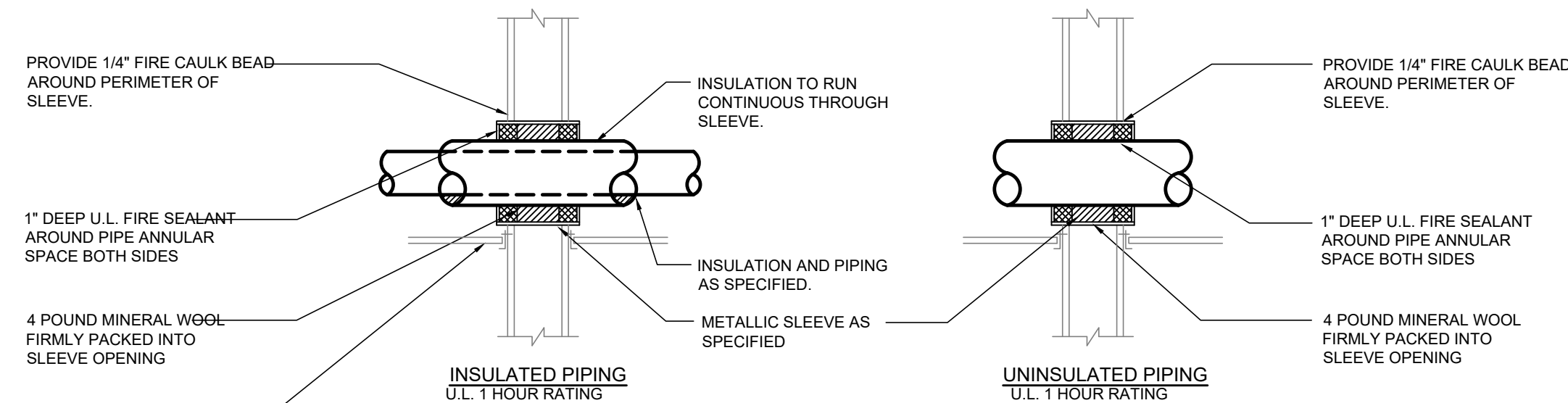
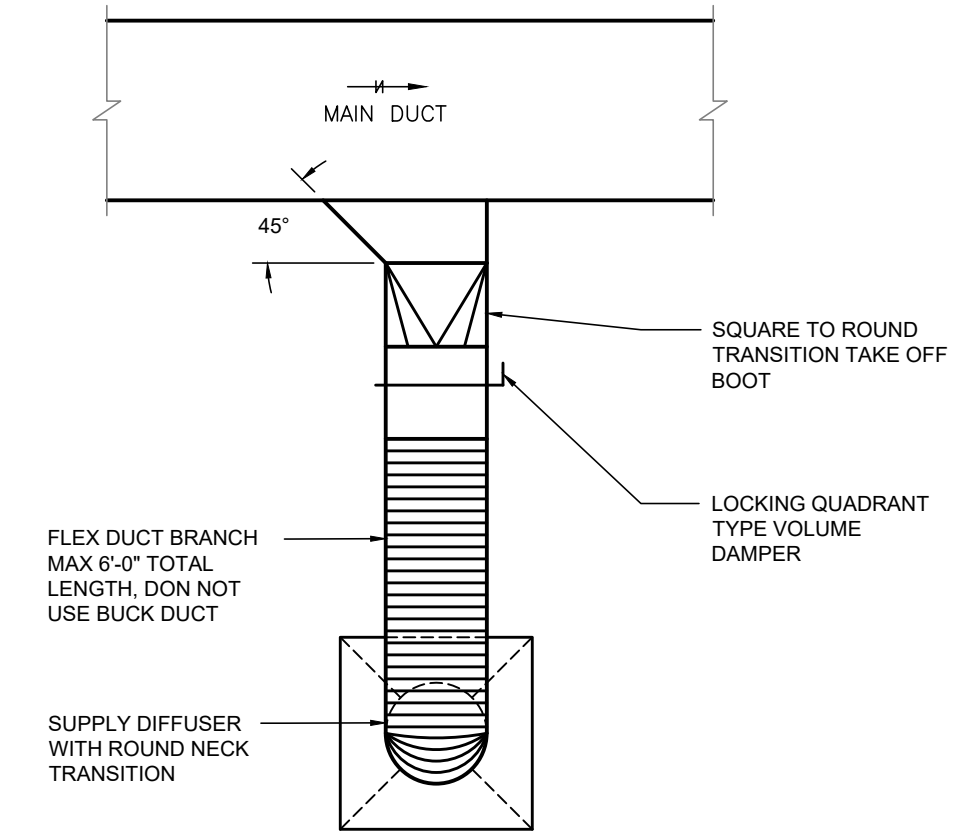
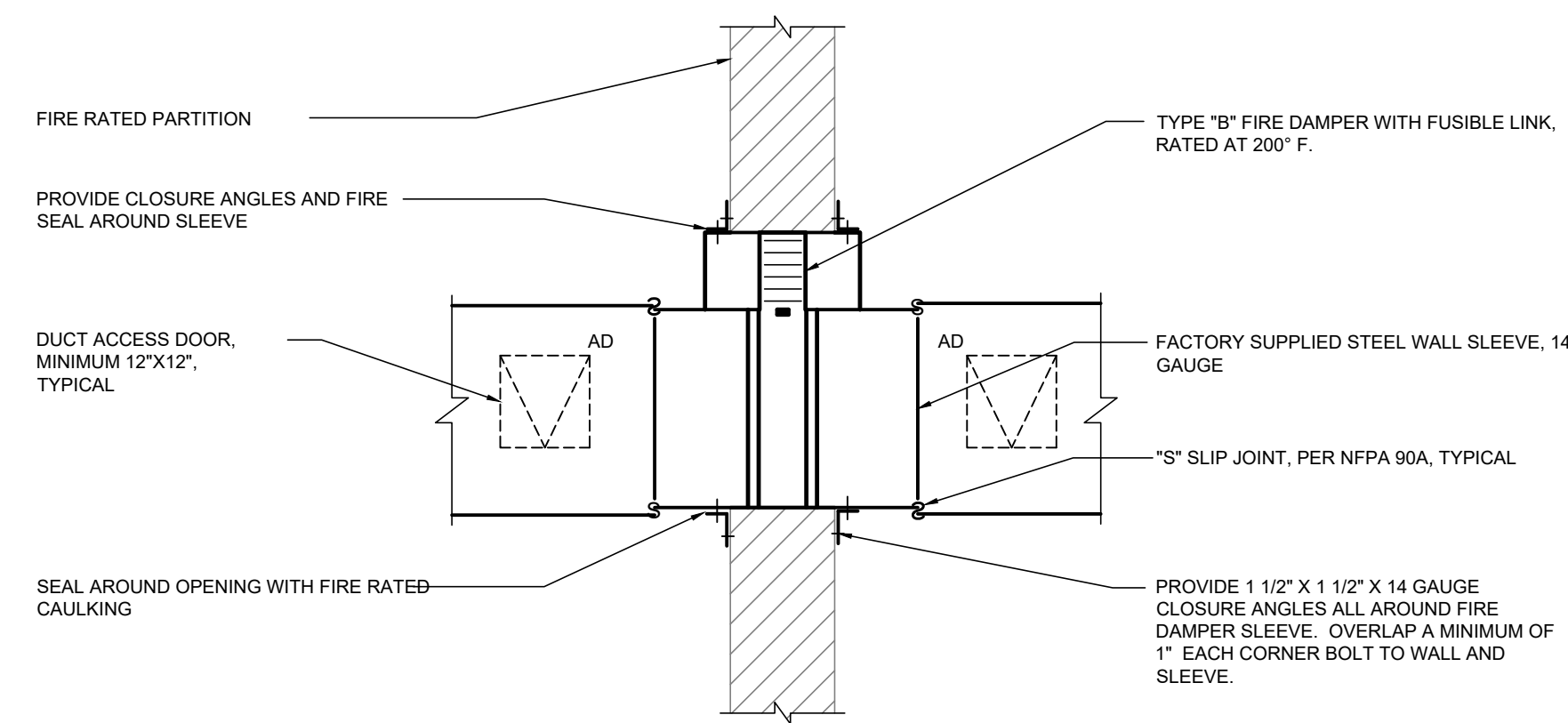
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KUA KILTON/WELCH DORMITORIES

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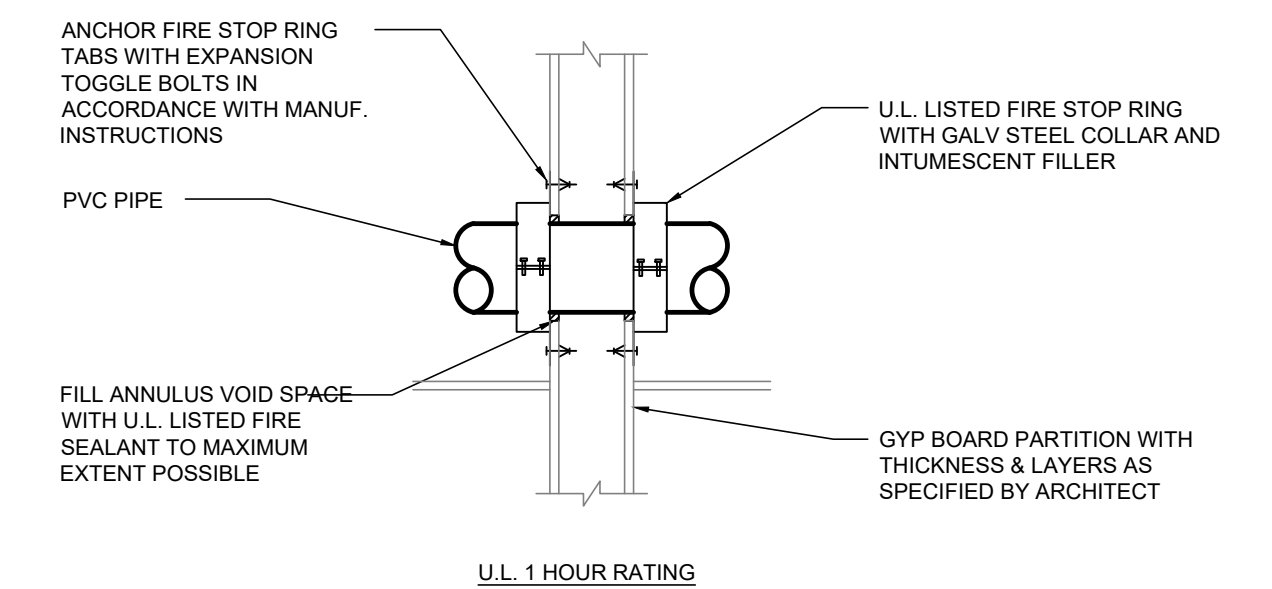
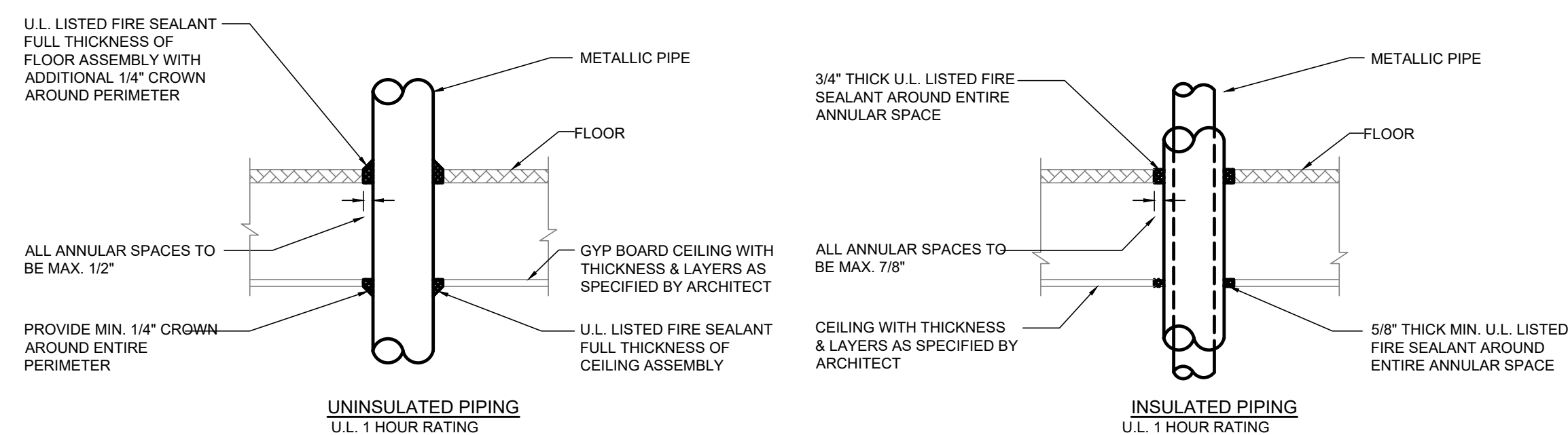
MECHANICAL DETAILS

MW-3.2



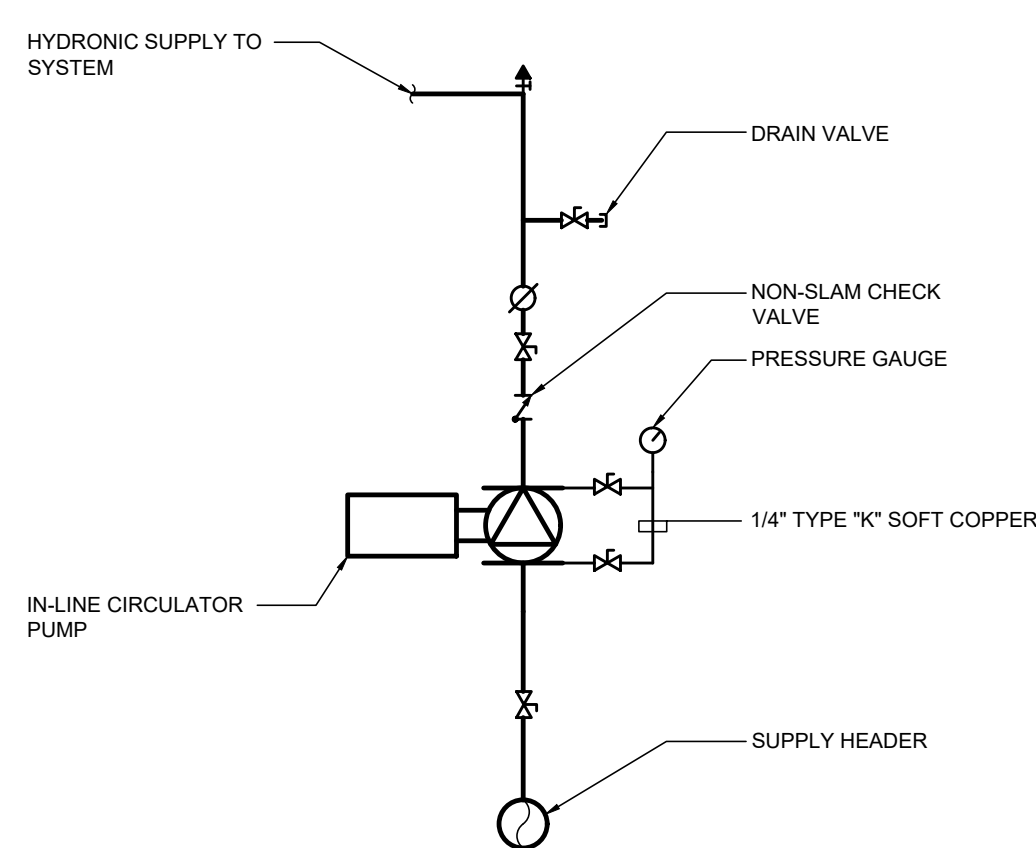
- NOTE:**
- 1) FOLLOW FIRE SEALANT MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
 - 2) ALL WALL PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.
 - 3) DETAIL BASED ON STI "SPEC-SEAL" FIRE STOPPING PRODUCTS, ALTERNATE MANUFACTURERS INSTALLATION REQUIREMENTS MAY VARY.
 - 4) ALL WALL PENETRATIONS SHALL BE INSTALLED TO MEET U.L. TESTED ASSEMBLIES. REFER TO ARCHITECT'S DRAWINGS FOR U.L. DESIGNATIONS OF WALL ASSEMBLIES.
 - 5) PROVIDE CHROME PLATED ESCUTCHEONS FOR ALL EXPOSED LOCATIONS.

- NOTE:**
- 1) FOLLOW FIRE SEALANT MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
 - 2) ALL FIRE RATED FLOOR PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.
 - 3) DETAIL BASED ON STI "SPEC-SEAL" FIRE STOPPING PRODUCTS, ALTERNATE MANUFACTURERS INSTALLATION REQUIREMENTS MAY VARY.
 - 4) ALL FLOOR & WALL PENETRATIONS SHALL BE INSTALLED TO MEET U.L. TESTED ASSEMBLIES. REFER TO ARCHITECT'S DRAWINGS FOR U.L. DESIGNATIONS OF WALL OR FLOOR ASSEMBLY.
 - 5) PROVIDE CHROME PLATED ESCUTCHEONS FOR ALL EXPOSED LOCATIONS.



- NOTE:**
- 1) FOLLOW FIRE SEALANT MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
 - 2) ALL FIRE RATED FLOOR PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.
 - 3) DETAIL BASED ON STI "SPEC-SEAL" FIRE STOPPING PRODUCTS, ALTERNATE MANUFACTURERS INSTALLATION REQUIREMENTS MAY VARY.
 - 4) ALL FLOOR PENETRATIONS SHALL BE INSTALLED TO MEET U.L. TESTED ASSEMBLIES. REFER TO ARCHITECT'S DRAWINGS FOR U.L. DESIGNATIONS OF FLOOR ASSEMBLIES.
 - 5) PROVIDE CHROME PLATED ESCUTCHEONS FOR ALL EXPOSED LOCATIONS.

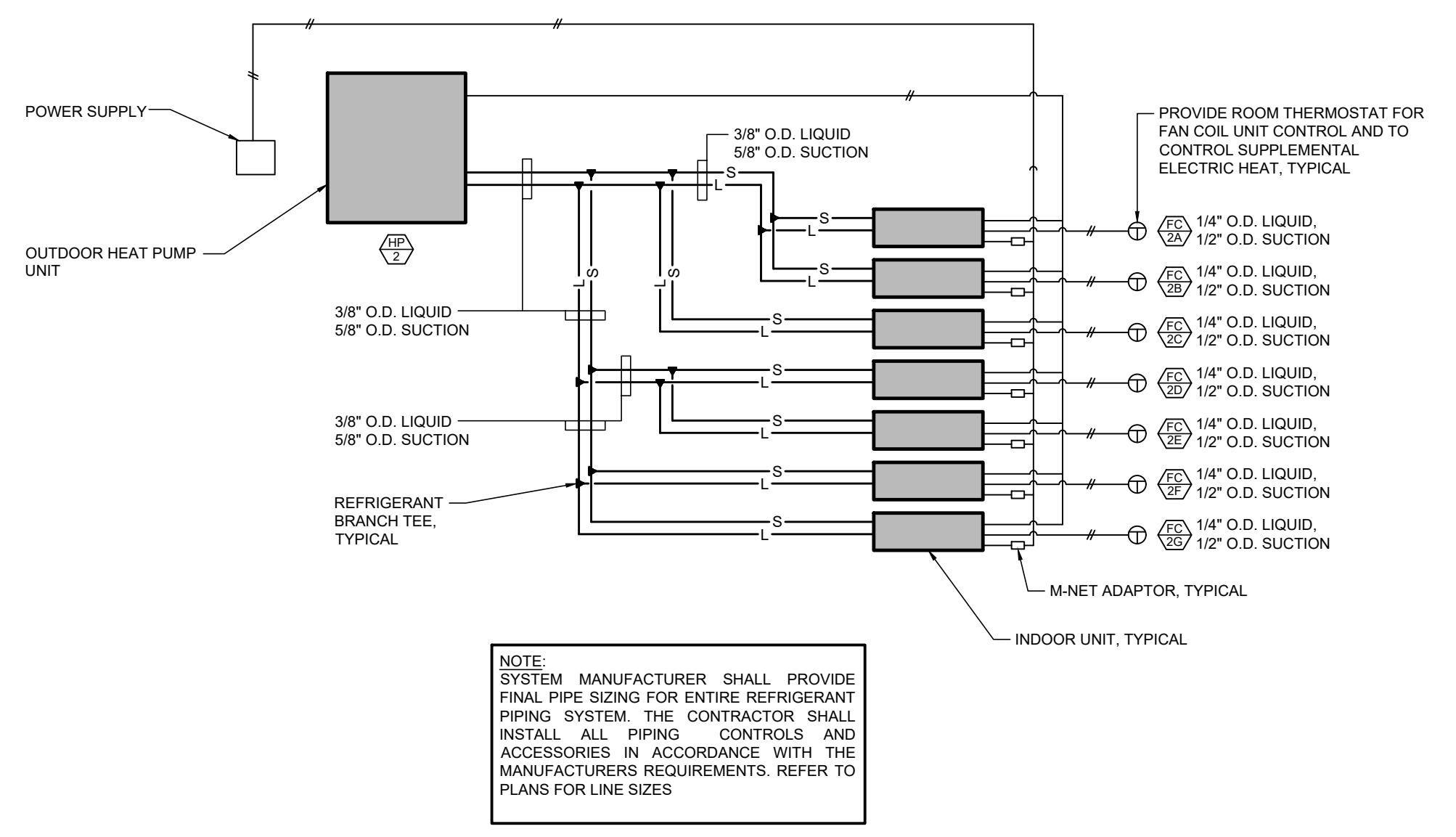
- NOTE:**
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 - 3) DETAIL BASED ON STI "SPEC-SEAL" FIRE STOPPING PRODUCTS, ALTERNATE MANUFACTURERS INSTALLATION REQUIREMENTS MAY VARY.
 - 4) ALL FLOOR & WALL PENETRATIONS SHALL BE INSTALLED TO MEET U.L. TESTED ASSEMBLIES. REFER TO ARCHITECT'S DRAWINGS FOR U.L. DESIGNATIONS OF WALL OR FLOOR ASSEMBLY.
 - 5) PROVIDE CHROME PLATED ESCUTCHEON FOR EXPOSED LOCATIONS.



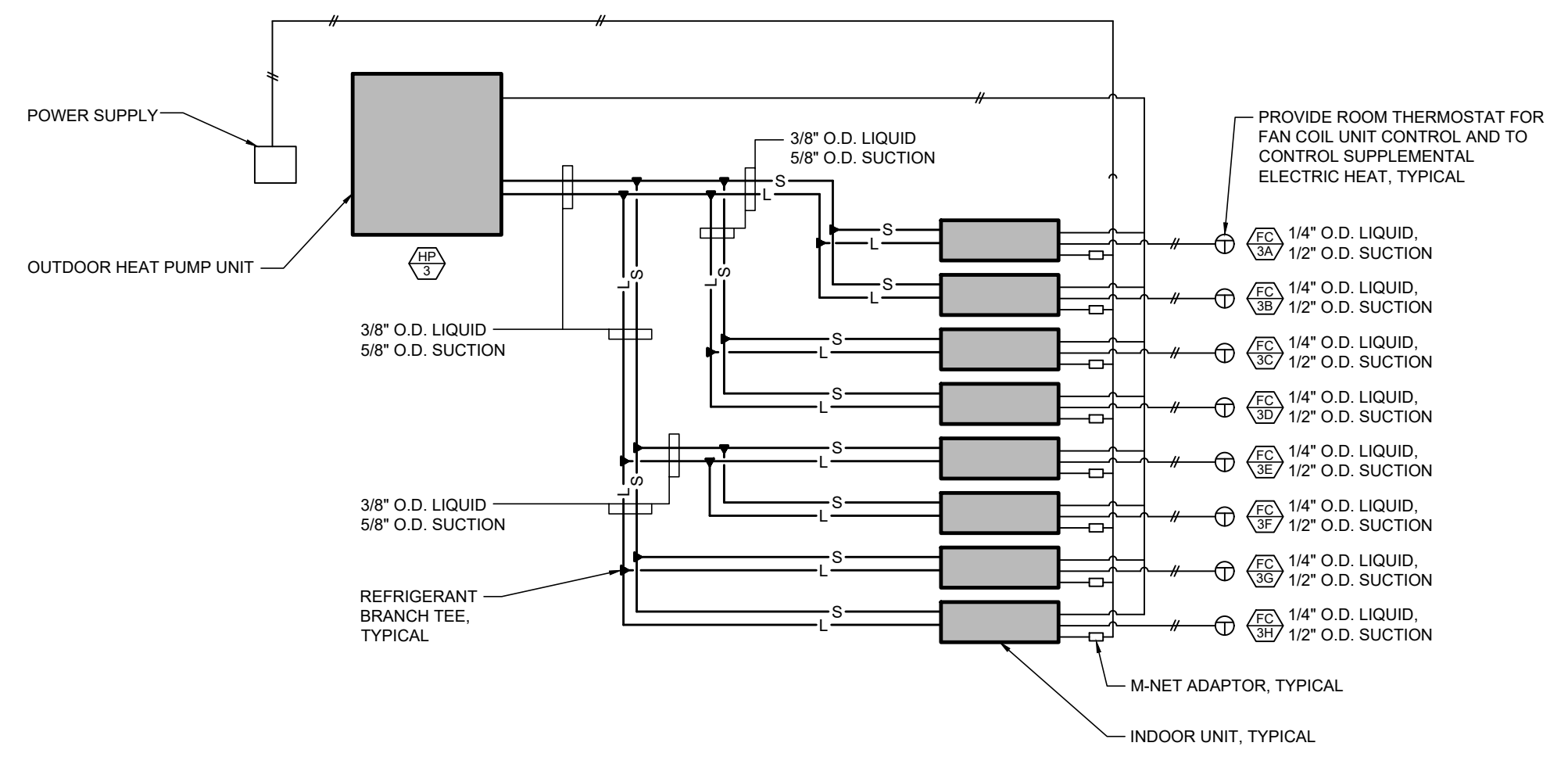
IN-LINE PUMP PIPING DETAIL
NOT TO SCALE

MECHANICAL LEGEND & ABBREVIATIONS

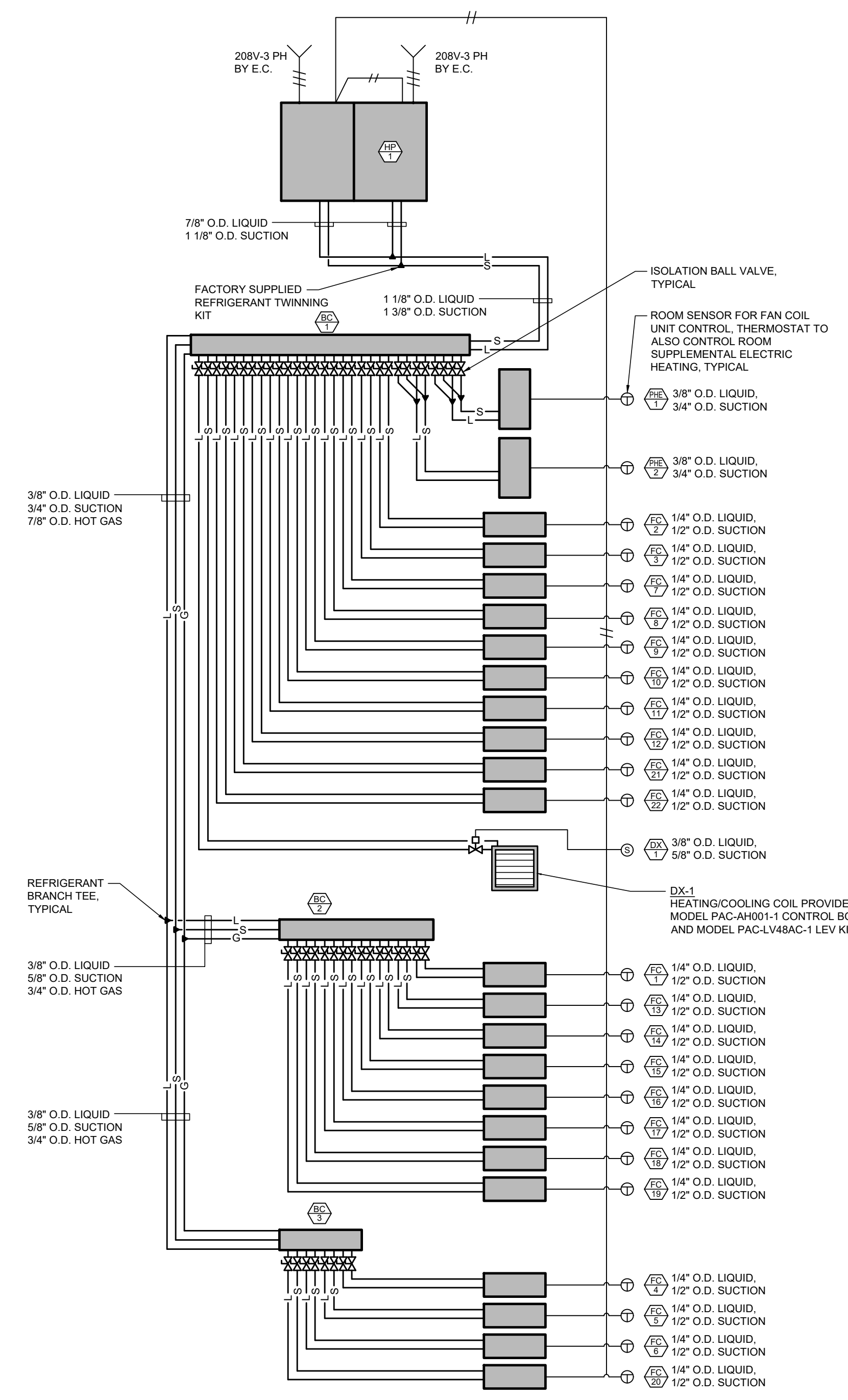
HPS	HEAT PUMP SUPPLY PIPING	FLEXIBLE DUCTWORK	SUPPLY DIFFUSER
HPR	HEAT PUMP RETURN PIPING	RETURN OR EXHAUST GRILLE	VOLUME DAMPER
C	NEW CONDENSATE DRAIN PIPING	AIR FLOW INDICATOR	NEW CONTROL WIRING
CTS	COOLING TOWER SUPPLY PIPING	A.F.F.	A.F.F.
CTR	COOLING TOWER RETURN PIPING	M.C.	M.C.
BALL VALVE		P.C.	P.C.
CHECK VALVE		E.C.	E.C.
BALANCING VALVE		G.C.	G.C.
2-WAY CONTROL VALVE		SUPPLY DIFFUSER	RETURN GRILLE
PIPE RISER		EXHAUST GRILLE	REFRIGERATION BRANCH BOX CONTROLLER
PIPE DROP		LOUVER	WATER HEATER HEAT EXCHANGER
PIPE CAP		GLYCOL INJECTION TANK	EXHAUST FAN
BOTTOM PIPE CONNECTION		ELECTRIC WALL HEATER	FAN COIL UNIT
TOP PIPE CONNECTION		AIR SOURCE HEAT PUMP UNIT	DX DUCT COIL
PIPE UNION		ELECTRIC DUCT COIL	DRAWING NOTE TAG
CLEANOUT		ELECTRIC BASEBOARD RADIATION	MOTORIZED DAMPER
NEW DUCTWORK		VOLUME DAMPER	THERMOSTAT
ACOUSTICALLY LINED DUCTWORK		FIRE DAMPER	
EXISTING DUCTWORK			
SUPPLY DUCT DOWN			
SUPPLY DUCT UP			
RETURN DUCT DOWN			
RETURN DUCT UP			
SQUARE TO ROUND TRANSITION			
SQUARE ELBOW WITH TURNING VANES			
FLEXIBLE DUCT CONNECTOR			
HEAT RECOVERY UNIT			
CEILING EXHAUST FAN			
FLOW SWITCH			
TEMPERATURE GAUGE			



HP-2 SYSTEM SCHEMATIC
NOT TO SCALE

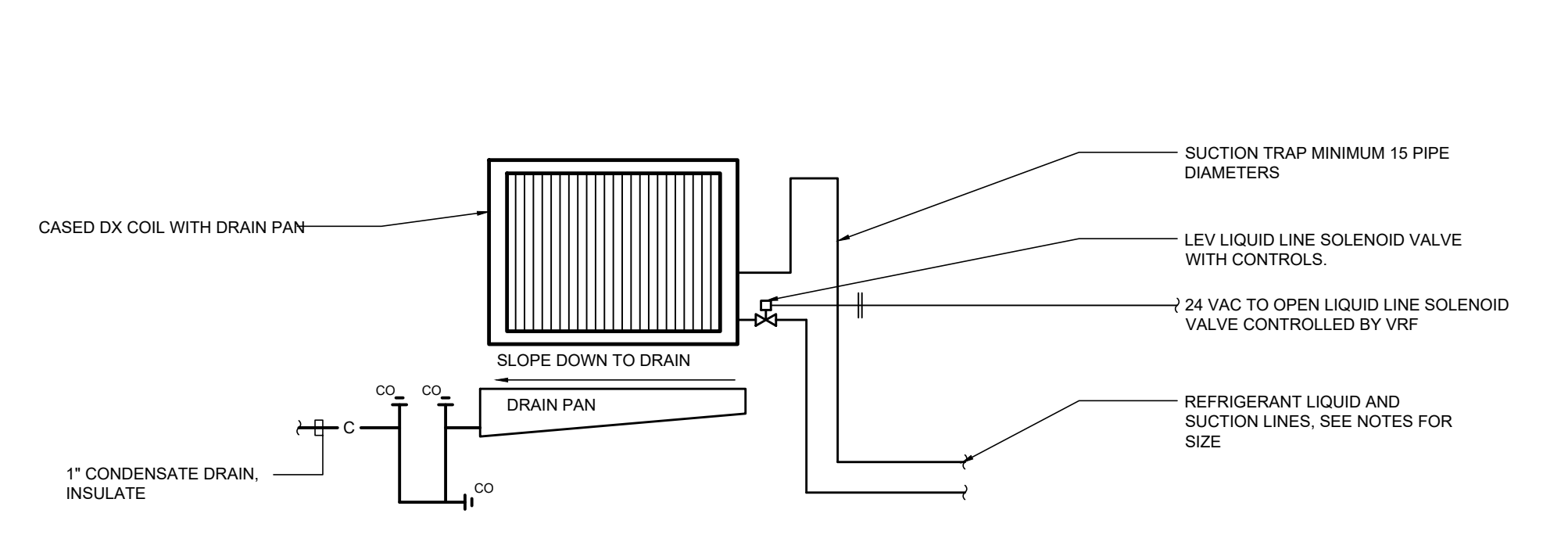


HP-3 SYSTEM SCHEMATIC
NOT TO SCALE

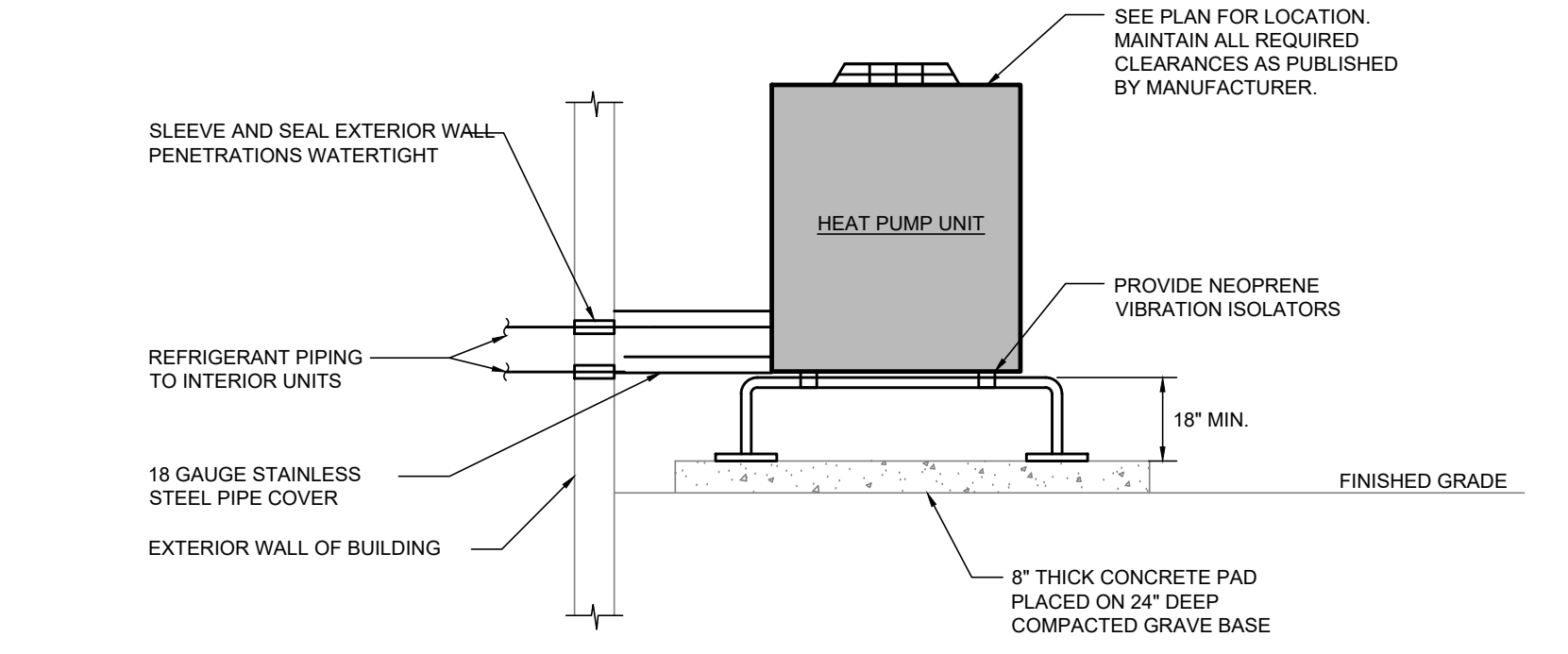


HP-1 SYSTEM SCHEMATIC DIAGRAM
NOT TO SCALE

- NOTES:
1. ALL FINAL REFRIGERANT PIPE SIZING SHALL BE PROVIDED BY SUPPLIER.
 2. PROVIDE ALL REFRIGERANT LINES, REFRIGERANT PIPING FITTINGS, REFRIGERANT TWINNING HEADERS, INSULATION, AND ACCESSORIES AS RECOMMENDED BY THE SYSTEM MANUFACTURER FOR A COMPLETE OPERATIONAL SYSTEM.
 3. PROVIDE ALL CONTROL WIRING AND CONTROLLERS AS SPECIFIED OR REQUIRED BY THE MANUFACTURER FOR A COMPLETE OPERATIONAL SYSTEM.
 4. SLEEVE AND FIRE STOP ALL PIPE PENETRATION THROUGH WALLS FLOORS AND CEILINGS.
 5. FINAL START-UP, COMMISSIONING AND PROGRAMMING TO BE PROVIDED BY THE FACTORY. SUBMIT A COMPLETE START-UP REPORT.
 6. INSTALL PIPING TO ALLOW FOR THERMAL EXPANSION AND CONTRACTION.



DX COIL REFRIGERANT PIPING DETAIL
NOT TO SCALE



HEAT PUMP UNIT DETAIL
NOT TO SCALE

ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com

ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

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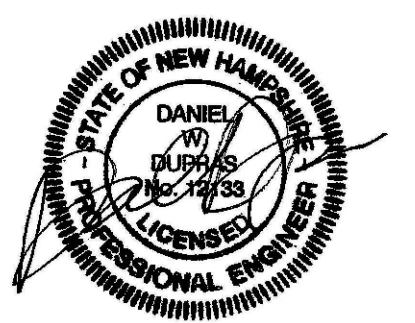
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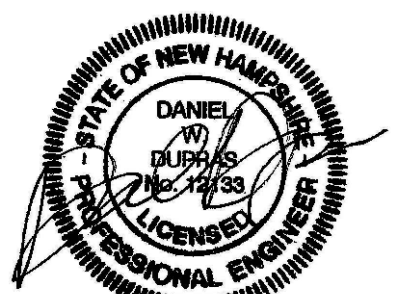
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KUA KILTON/WELCH DORMITORIES

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MECHANICAL DETAILS



PERMIT SET 05/15/2023

HEAT RECOVERY UNIT SCHEDULE																PLAN SYMBOL	
REF. No.	MANUFACTURER/MODEL	MODEL	AREA SERVED	SUPPLY & EXHAUST SIDE (TYPICAL OF TWO)												REMARKS	
				CFM	MAX. FACE VEL. FPM	RPM	STATIC PRESS. IN. WG.		ECM MOTOR				EFFICIENCY WINTER		EFFICIENCY SUMMER		
							TOT.	EXT.	HP	VOLTS	PHASE	HZ	SENS EFF (%)	TOTAL EFF (%)	SENS EFF (%)		TOTAL EFF (%)
HRU-1	RENEWAIRE	HE2XINH	NEW DORMITORY	1010	-	1347	-	1.35	(2) 2.0	208	3	60	74.5	73.3	74.5	57.9	SEE NOTES 1 & 3
HRU-2/ EHC-2	RENEWAIRE	EV200	FACULTY RESIDENCE B	150	-	1750	-	0.35	(1) 0.10	120	1	60	79.3	76.6	79.3	65.5	SEE NOTES 2 & 4
HRU-3/ EHC-3	RENEWAIRE	EV200	FACULTY RESIDENCE A	150	-	1750	-	0.55	(1) 0.10	120	1	60	79.6	76.6	79.3	65.5	SEE NOTE 2 & 4

NOTES:
1) UNIT TO BE FURNISHED WITH DOUBLE WALL CONSTRUCTION, FACTORY DISCONNECT, MOTORIZED DAMPERS ON INTAKE AND EXHAUST AIRSTREAMS, MERV13 FILTERS, FACTORY SUPPLIED CONTROLS, AND NEOPRENE ISOLATORS, VFD'S ON BOTH SUPPLY AND EXHAUST FANS WITH SHAFT GROUNDING RING, FACTORY DISCONNECT, AND FILTER ALARMS ON BOTH SUPPLY AND EXHAUST AIRSTREAMS.
2) UNIT TO BE FURNISHED WITH FACTORY SUPPLIED CONTROLS, MERV13 FILTERS, FACTORY DISCONNECT AND NEOPRENE ISOLATORS.
3) UNIT TO BE PROVIDED WITH IN-LINE CASED DX COIL, REFER TO SCHEDULE.
4) PROVIDE UNIT WITH EK SERIES RECTANGULAR DUCTED ELECTRIC HEATER WITH SCR CONTROLS WITH INTEGRAL THERMOSTAT AND DISCHARGE TEMPERATURE SENSOR. COIL SIZE SHALL BE 8"X8", 2KW HEATING ELEMENT, 12.02MCA, 15 MOCP, 208V, 1 PHASE, 60 HZ.

WATER HEATER HEAT PUMP SCHEDULE										PLAN SYMBOL
TAG	MANUFACTURER	MODEL	GPM	MCA (AMPS)	MAX FUSE	VOLTS	PH	CONTROLLER		
PHE-1	mitsubishi	PWFY-P72NMU-E2-AU	18.9	0.09	15	208	1	PAR-W2W21MAA		
PHE-2	mitsubishi	PWFY-P72NMU-E2-AU	18.9	0.09	15	208	1	PAR-W2W21MAA		

DIFFUSER-GRILLE-REGISTER-LOUVER SCHEDULE									S = SUPPLY R = RETURN	F = FRESH AIR E = EXHAUST	L = LOUVER T = TRANSFER	PLAN SYMBOL
No.	MANUFACTURER	SERIES	MODEL	SIZE	AIR PATTERN	DAMPER	FINISH	REMARKS				
L-1	RUSKIN	ELF-375DX	ELF-375DX	12"X12"	FIXED	-	BAKED ENAMEL	SEE NOTE 1				
L-2	RUSKIN	ELF-375DX	ELF-375DX	12"WX36"H	FIXED	-	BAKED ENAMEL	SEE NOTE 1				
S-1	METAL-AIRE	V4004	V4004	18"X8"	DBL. DEFL.	-	W.E.					
S-2	METAL-AIRE	V4002	V4002	6"X6"	DBL. DEFL.	-	W.E.					
S-3	METAL-AIRE	5000	5000-1	9"X9"	S2	-	W.E.	SR NECK				
S-4	METAL-AIRE	5000	5000-1	6X6"	S3	-	W.E.	SR NECK				
S-5	McNICHOLS	STAMPED	STAMPED	3"X14-6"	FIXED	-	W.E.	NOTE 2				
S-6	METAL-AIRE	V4002	V4002	12"X10"	DBL. DEFL.	-	W.E.					
R-1	METAL-AIRE	RHF	RHF	18"X10"	FIXED	-	W.E.					
R-2	McNICHOLS	STAMPED	STAMPED	3"X14-0	FIXED	-	W.E.	NOTE 2				
E-1	METAL-AIRE	RH	RH	6"X6"	FIXED	-	W.E.	SR NECK WHERE REQUIRED				
E-2	METAL-AIRE	RH	RH	8"X8"	FIXED	-	W.E.	SR NECK				
E-3	METAL-AIRE	RH	RH	12"X10"	FIXED	-	W.E.					

NOTES:
1) SUBMIT COLOR CHART FOR COLOR SELECTION BY ARCHITECT. PROVIDE GALVANIZED STEEL BIRDSCREEN.
2) 1/2" BOARD, 1/2 SQUARE STAMPED METAL, BLACK FINISH

ELECTRIC BASEBOARD RADIATION SCHEDULE									PLAN SYMBOL
TYPE	MANUFACTURER (OR APPROVED EQUAL)	SERIES	LENGTH	VOLTS	PHASE	WATTS/LF	BTUH/LF	REMARKS	
A	QMARK	QMCK	PER PLANS	208	1	250	853	SEE NOTES	

NOTES:
1) PROVIDE 24 VAC CONTROL RELAY FOR CONTROL BY VRF 24 VAC WALL THERMOSTAT CONTROL.
2) DO NOT INSTALL ELECTRICAL BASEBOARD BELOW ELECTRICAL CONVENIENCE RECEPTACLES, COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.
3) SUBMIT COLOR CHART, COLOR TO BE SELECTED BY ARCHITECT.

EXHAUST FAN SCHEDULE										PLAN SYMBOL
REF. NO.	MANUFACTURER	MODEL NO.	CFM	E.S.P.	TYPE	RPM	MOTOR			REMARKS
							HP	VOLT	PHASE	
EF-1	PANASONIC	FC-1115VK2	110	0.1	CEILING	684	12.9 WATTS	120	1	SEE NOTE 1
EF-2	GREENHECK	CSP-A700-VG	500	1.0	INLINE	1538	188 WATTS	120	1	SEE NOTE 2

NOTES:
1) PROVIDE WALL MOUNTED 120 VAC COOLING CONTROL THERMOSTAT TO ENERGIZE FAN WHEN ROOM TEMPERATURE EXCEEDS SET POINT.
2) PROVIDE VARI-GREEN EC MOTOR WITH MOUNTED POTENTIOMETER DIAL RATER FOR CONTINUOUS USE.


CIRCULATOR PUMP SCHEDULE										PLAN SYMBOL
REF. NO.	MANUFACTURER	MODEL	MIN. FLOW (GPM)	HEAD (FT. HD.)	MOTOR				REMARKS	
					HP	VOLT	PHASE	RPM		
P-1	GRUNDFOS	MAGNA1 40-180F	15	55	0.614	208	1	3500		
P-2	GRUNDFOS	MAGNA1 40-180F	15	55	0.614	208	1	3500		

NOTES:
1) SELECT PUMPS FOR 40% PROPYLENE GLYCOL.
2) PUMPS TO INCLUDE FACTORY SUPPLIED VFD.

ELECTRIC WALL HEATER SCHEDULE										PLAN SYMBOL
REF. NO.	MANUFACTURER	MODEL	SIZE	WATTS	BTUH	ECM MOTOR			REMARKS	
						AMPS	VOLT	PH		
EW-1 THROUGH EW-9	QMARK	AWH	AWH4408F	2000	6824	9.6	208	1	SEE NOTES	
EW-10 THROUGH EW-15	QMARK	AWH	AWH4408F	1500	5118	12.5	120	1	SEE NOTES	

NOTES:
1) PROVIDE LOW VOLTAGE RELAYS. SUBMIT COLOR CHART, ARCHITECT TO SELECT FINISH COLOR.


OUTDOOR AIR SOURCE HEAT PUMP UNIT SCHEDULE

PLAN SYMBOL 

REF. No.	MANUFACTURER/MODEL	NOMINAL CAPACITY (TONS)	SUMMER AMBIENT TEMP. (°F)	COOLING CAPACITY (BTUH)	WINTER AMBIENT TEMP. (°F)	HEATING CAPACITY (BTUH)	REFRIG. TYPE	ELECTRICAL DATA					REMARKS
								MAX FUSE	MCA AMPS	VOLTS	PHASE	HZ	
HP-1	mitsubishi-pury-EP288T3NU-A	24	90	288,000	-13	323,000	R-410A	60/60	49.0/45.0	208/230	3	60	SEE NOTE 1
HP-2	MITSUBISHI-MXZ-SM4NAMHZ-U1	4.0	90	48,000	-13	54,000	R-410A	50	36	208/230	1	60	SEE NOTE 2
HP-3	MITSUBISHI-MXZ-SM4NAMHZ-U1	3.5	90	42,000	-13	48,000	R-410A	40	36	208/230	1	60	SEE NOTE 2

- NOTES:
 1) PROVIDE BASE MOUNTED SUPPORT SLING MOUNTED 18" ABOVE FINISHED GRADE MINIMUM, WITH 1/8" THICK NEOPRENE ISOLATORS.
 2) PROVIDE WALL MOUNTED EQUIPMENT SUPPORT SLING WITH NEOPRENE VIBRATION ISOLATORS.


HEAT PUMP FAN COIL UNIT SCHEDULE

PLAN SYMBOL 

REF. NO.	MANUFACTURER	MODEL NO.	TOTAL COOLING MBH	TOTAL HEAT MBH	CFM	SOUND dBA	MCA AMPS	VOLTS	PHASE	REMARKS
NEW DORMS - HEAT PUMP SYSTEM 1										
FC-1	mitsubishi	PEFY-P12NMAU-E4	12.0	13.5	371	34	2.13	208/230	1	SEE NOTES 1
FC-2	mitsubishi	PKFY-P08NLMU-E	8.0	9.0	237	35	0.2	208/230	1	SEE NOTES 1
FC-3	mitsubishi	PKFY-P06NLMU-E	6.0	6.7	191	31	0.2	208/230	1	SEE NOTES 1
FC-4	mitsubishi	PKFY-P08NLMU-E	8.0	9.0	237	35	0.2	208/230	1	SEE NOTES 1
FC-5	mitsubishi	PKFY-P08NLMU-E	8.0	9.0	237	35	0.2	208/230	1	SEE NOTES 1
FC-6	mitsubishi	PLFY-P08NFMU-E	8.0	9.0	390	31	0.3	208/230	1	SEE NOTES 1
FC-7	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1
FC-8	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1
FC-9	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1
FC-10	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1
FC-11	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1
FC-12	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1
FC-13	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1
FC-14	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1
FC-15	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1
FC-16	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1
FC-17	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1
FC-18	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1
FC-19	mitsubishi	PEFY-P06NMAU-E4	6.0	6.7	265	28	1.75	208/230	1	SEE NOTES 1
FC-20	mitsubishi	PKFY-P06NLMU-E	6.0	6.7	191	31	0.2	208/230	1	SEE NOTES 1
FC-21	mitsubishi	PKFY-P06NLMU-E	6.0	6.7	191	31	0.2	208/230	1	SEE NOTES 1
FC-22	mitsubishi	PKFY-P06NLMU-E	6.0	6.7	191	31	0.2	208/230	1	SEE NOTES 1
EXISTING FACULTY RESIDENCE - HEAT PUMP SYSTEM 2										
FC-2A	mitsubishi	PKFY-P08NLMU-E	8.0	9.0	237	35	0.20	208/230	1	SEE NOTES 1
FC-2B	mitsubishi	PKFY-P08NLMU-E	8.0	9.0	237	35	0.20	208/230	1	SEE NOTES 1
FC-2C	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1
FC-2D	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1
FC-2E	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1
FC-2F	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1
FC-2G	mitsubishi	PKFY-P12NLMU-E	12.0	13.5	297	41	0.20	208/230	1	SEE NOTES 1
FACULTY RESIDENCE A - HEAT PUMP SYSTEM 3										
FC-3A	mitsubishi	PKFY-P12NLMU-E	12.0	13.5	297	41	0.20	208/230	1	SEE NOTES 1
FC-3B	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1
FC-3C	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1
FC-3D	mitsubishi	PKFY-P06NLMU-E	6.0	6.7	191	31	0.20	208/230	1	SEE NOTES 1
FC-3E	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1
FC-3F	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1
FC-3G	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1
FC-3H	mitsubishi	PKFY-P04NLMU-E	4.0	4.5	148	28	0.20	208/230	1	SEE NOTES 1

- NOTES:
 1) PROVIDE WITH FACTORY SUPPLIED CONDENSATE PUMP, SPARE FILTER, CONDENSATE OVERFLOW PROTECTION SWITCH AND CONTROLS AS SPECIFIED.

BRANCH BOX CONTROLLER

PLAN SYMBOL 

REF. NO.	MANUFACTURER	MODEL	NUMBERS OF PORTS	CONNECTED CAPACITY MBH	ELECTRICAL				REMARKS
					MCA	COOLING KW	HEATING KW	VOLTS/PH	
BC-1	mitsubishi	CMB-P1016NU-JA1-BV	16	318.0	1.6	0.258	0.137	208/1	SEE NOTE 1
BC-2	mitsubishi	CMB-P108MU-KB1-BV	8	42.0	0.4	0.122	0.061	208/1	SEE NOTE 1
BC-3	mitsubishi	CMB-P104MU-KB1-BV	4	42.0	0.3	0.061	0.033	208/1	SEE NOTE 1

- NOTES:
 1) FURNISH WITH FACTORY PRE-INSTALLED ISOLATION BALL VALVES, BV SERIES, R-410A RATED, AND DRAIN PAN.

DX COIL SCHEDULE

PLAN SYMBOL 

REF. No.	MANUFACTURER MODEL	ROWS	SIZE		E.A.T. (°F)		L.A.T. (°F)		CFM	A.P.D (IN. WC)	REMARKS
			LENGTH	WIDTH	DB	WB	DB	WB			
DX-1	HEATCRAFT	2	16	12	90	72	69.3	62.4	1010	0.245	SEE NOTE 1

- NOTES:
 1) PROVIDE STAINLESS STEEL DRAIN PAN, INSULATED COIL HOUSING



ANDREA MURRAY, AIA, NCARB, LEED AP
 andrea@vermontintegratedarchitecture.com

ASHAR NELSON, AIA, LEED AP
 ashar@vermontintegratedarchitecture.com

P.O. Box 862
 Middlebury, VT 05753
 802.989.7249

CIVIL ENGINEER

Kevin Warden, P.E.
 Engineering Ventures
 kevinw@engineeringventures.com
 802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E., President
 Engineering Ventures
 bobn@engineeringventures.com
 802.863.6225

MECH./PLUMBING ENGINEER

Daniel Dupras, P.E.
 Engineering Services of Vermont, LLC
 daniel.dupras@esvllc.com
 802.855.8091

ELECTRICAL ENGINEER

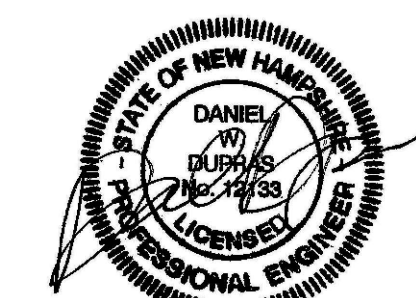
CLAUS BARTENSTEIN, P.E., LEED-AP
 Engineering Services of Vermont, LLC
 claus.bartenstein@esvllc.com
 802.855.8091

CONSTRUCTION MANAGER

NAME & TITLE
 ReArch Company, Inc.
 EMAIL HERE
 802.863.8727

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 Checked: DWD

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KUA
 KILTON/WELCH
 DORMITORIES

Main Street
 Meriden, NH 03770

MECHANICAL
 SCHEDULES

MW-4.02

GENERAL NOTES:

REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING AS WELL AS ANY NOTES WHICH FOLLOW.

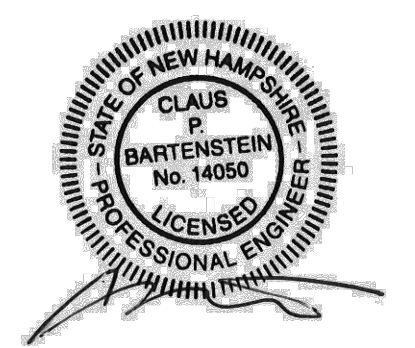
- REFER TO THE LIBERTY UTILITIES (LU) SPECIFICATIONS FOR ELECTRICAL INSTALLATIONS, 2018 (ELECTRICAL SERVICE BULLETIN No. 750, JANUARY 2019) AS WELL AS THE UNDERGROUND COMMERCIAL DISTRIBUTION (UCD) INSTALLATION AND RESPONSIBILITY GUIDE (ELECTRICAL SERVICE BULLETIN 759B OCTOBER 2018)
- REFER TO THESE DOCUMENTS FOR MATERIALS REQUIREMENTS, DIRECTION FROM THE ELECTRIC POWER UTILITY AND STANDARD INSTALLATION DETAILS, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
 - CONCRETE PAD FOR TRANSFORMER, CLEARANCES, CONSTRUCTION AND GROUNDING
 - SECONDARY SERVICE DUCTBANK ARRANGEMENT, SPACING AND CLEARANCES
 - CONCRETE ENCASMENT REQUIREMENTS
 - BOLLARD REQUIREMENTS
 - METERING REQUIREMENTS
- ELECTRIC SERVICE INSTALLATION RESPONSIBILITIES:**
 - THIS DESCRIPTION OF RESPONSIBILITIES IS TENTATIVE, FOR DESIGN PURPOSES. ACTUAL ASSIGNMENT OF RESPONSIBILITIES WILL BE BY THE CONSTRUCTION MANAGER. VERIFY RESPONSIBILITIES PRIOR TO BIDDING.
 - LIBERTY UTILITIES RESPONSIBILITIES:
 - UNDERGROUND 3 PHASE LINE EXTENSION CABLING INTO THE SITE, TO THE TRANSFORMER
 - PROVIDING THE PAD MOUNT TRANSFORMER
 - FINAL PRIMARY WIRING CONNECTIONS TO THE PAD MOUNT TRANSFORMER
 - FINAL SECONDARY WIRING CONNECTIONS TO THE PAD MOUNT TRANSFORMER
 - SUPPLYING AND INSTALLATION OF CURRENT TRANSFORMERS AND ASSOCIATED WIRING
 - SUPPLYING THE METER SOCKET TO THE CONTRACTOR
 - INSPECTION OF ALL CONTRACTOR INSTALLED ELECTRIC SERVICE MATERIALS AND METHODS
 - COORDINATE METERING REQUIREMENTS WITH CONTRACTOR
 - ELECTRICAL CONTRACTOR RESPONSIBILITIES:
 - COORDINATION BETWEEN LIBERTY UTILITIES, THE GENERAL CONTRACTOR, THE SITE CONTRACTOR AND THEMSELVES
 - PROVIDING PRIMARY LINE EXTENSION RACEWAY FROM POLE TO THE TRANSFORMER, AS PER L-U REQUIREMENTS, INCLUDING POLE RISER MATERIALS. SUPPLY A PRE-CAST TRANSFORMER PAD
 - PROVIDE GROUNDING AT TRANSFORMER AS PER L-U REQUIREMENTS
 - COMPLETE SECONDARY WIRING FROM THE TRANSFORMER TO THE BUILDING SERVICE OVER-CURRENT DEVICE DISCONNECTION SWITCH; CONTRACTOR MAKES FINAL CONNECTION TO THE TRANSFORMER AS PER L-U REQUIREMENTS
 - PRIMARY WIRING SWEEP OUT OF TRANSFORMER FOR USE BY L-U
 - PROVIDE METERING CABINET, METER SOCKET AND 1.25" CONDUIT BETWEEN THE TWO ENCLOSURES
- SITE CONTRACTOR RESPONSIBILITIES:**
 - TRENCHING AND BACKFILL FOR THE UNDERGROUND PRIMARY LINE EXTENSION AND ELECTRICAL SECONDARY SERVICE DUCTBANKS AS WELL AS FOR THE TRANSFORMER PAD
 - INSTALLATION OF THE TRANSFORMER PAD AS SUPPLIED BY THE ELECTRICAL CONTRACTOR, INSTALLATION AS PER L-U REQUIREMENTS

DRAWING NOTES:

- THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- PROVIDE (1) #3/0 7 STRAND BARE COPPER GROUNDING ELECTRODE CONDUCTOR IN 1" NON-METALLIC RIGID CONDUIT TO THE COLD WATER MAIN METALLIC SERVICE PIPE AT THE WATER ENTRANCE LOCATION. PROVIDE A #3/0 7 STRAND BARE COPPER BONDING JUMPER AT THE WATER METER TO MAINTAIN GROUNDING CONTINUITY. (NEC 250.52(1), 250.66)
 - PROVIDE ELECTRODE CONNECTION TO THE SPRINKLER WATER ENTRANCE IF SEPARATE FROM DOMESTIC WATER.
 - PROVIDE (1) #2 7 STRAND BARE COPPER GROUNDING ELECTRODE CONDUCTOR IN 1" NON-METALLIC RIGID CONDUIT TO THE COLD WATER MAIN METALLIC SERVICE PIPE AT THE WATER ENTRANCE LOCATION. PROVIDE A #3/0 7 STRAND BARE COPPER BONDING JUMPER AT THE WATER METER TO MAINTAIN GROUNDING CONTINUITY. (NEC 250.52(1), 250.66)
 - PROVIDE ELECTRODE CONNECTION TO THE SPRINKLER WATER ENTRANCE IF SEPARATE FROM DOMESTIC WATER.
 - PROVIDE (1) #6 7 STRAND BARE COPPER BONDING JUMPER IN 1/2" NON-METALLIC RIGID CONDUIT TO A 1/2" DIAMETER (OR GREATER) MINIMUM 20'-0" LONG CONCRETE ENCASED REINFORCING BAR IN A SLAB OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH. MINIMUM 2" CONCRETE ENCASMENT. WHERE ADEQUATE REINFORCING ROD IS NOT AVAILABLE, PROVIDE 20' OF #4 COPPER CONDUCTOR INSTALLED IN THE CONCRETE, METALLICALLY TIED TO THE METALLIC REINFORCING RODS. (NEC 250.52(3), 250.66(B)).
 - PROVIDE ENGRAVED LABELS:
 - AVAILABLE FAULT CURRENT AND DATE (2017 NEC 110.24(A)). AVAILABLE FAULT CURRENT INFORMATION SHALL BE MADE AVAILABLE BY THE ENGINEER DURING CONSTRUCTION, PRIOR TO ENERGIZATION OF EQUIPMENT FOLLOWING FINAL COORDINATION WITH THE ELECTRIC UTILITY.
 - CONDUCTOR COLOR IDENTIFICATION LEGEND
 - PHASE ROTATION
 - SHORT CIRCUIT CURRENT IS CALCULATED BASED UPON INFINITE AVAILABLE UTILITY SHORT CIRCUIT CURRENT, MOTOR CONTRIBUTIONS, ESTIMATED 500KVA UTILITY TRANSFORMER WITH 2.0% IMPEDANCE
 - PROVIDE A SURGE PROTECTIVE DEVICE. CONNECT TO A 40A 3P GROUND BREAKER; WIRING SHALL BE (#8, #10G) 3/4". LOCATE SURGE SUPPRESSION DEVICE ADJACENT TO THE PANEL. PROVIDE SQUARE D #TVS-IMA WITH COUNTER OR APPROVED EQUAL; 120/208V, 3 PHASE, 4 WIRE, 240KA PEAK SURGE CURRENT PER PHASE IN A NEMA 1 ENCLOSURE.
 - PROVIDE 22.5KA, MINIMUM, 2 POLE SURGE PROTECTIVE DEVICE INTEGRAL TO UNIT PANEL.
 - BASIS OF DESIGN FOR SE(AL) CABLE IS SOUTHWIRE, 250-250-250-3/0 RATED 225 AMP FOR DWELLING.
 - PROVIDE NEW FEEDER FROM PANEL MDP TO SERVE EXISTING FACILITY RESIDENCE PANEL. DISCONNECT EXISTING GROUND ELECTRODE CONDUCTORS AND REMOVE BACK TO ELECTRODES; UTILIZE GROUND CONNECTION THROUGH NEW FEEDER.

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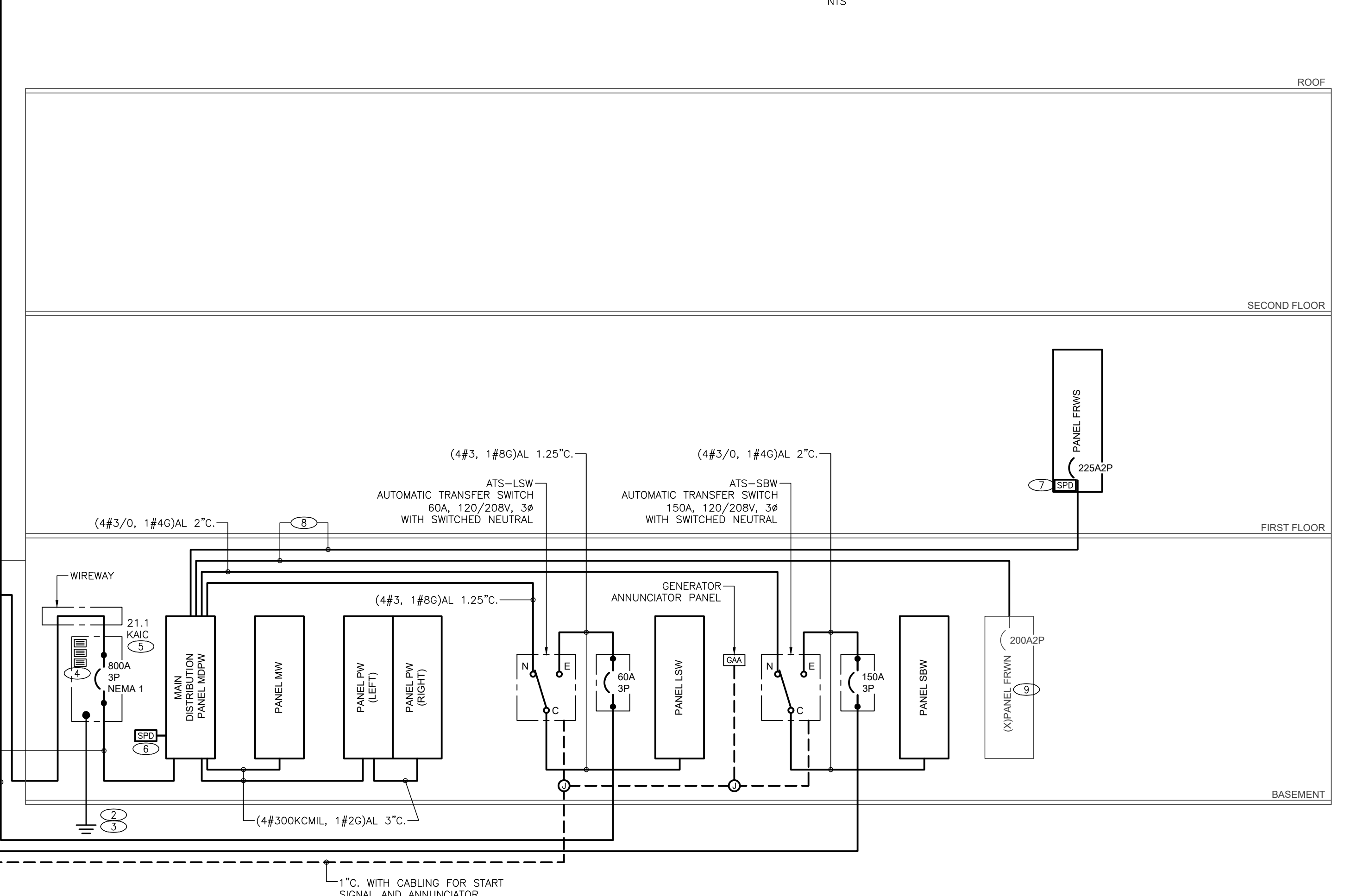
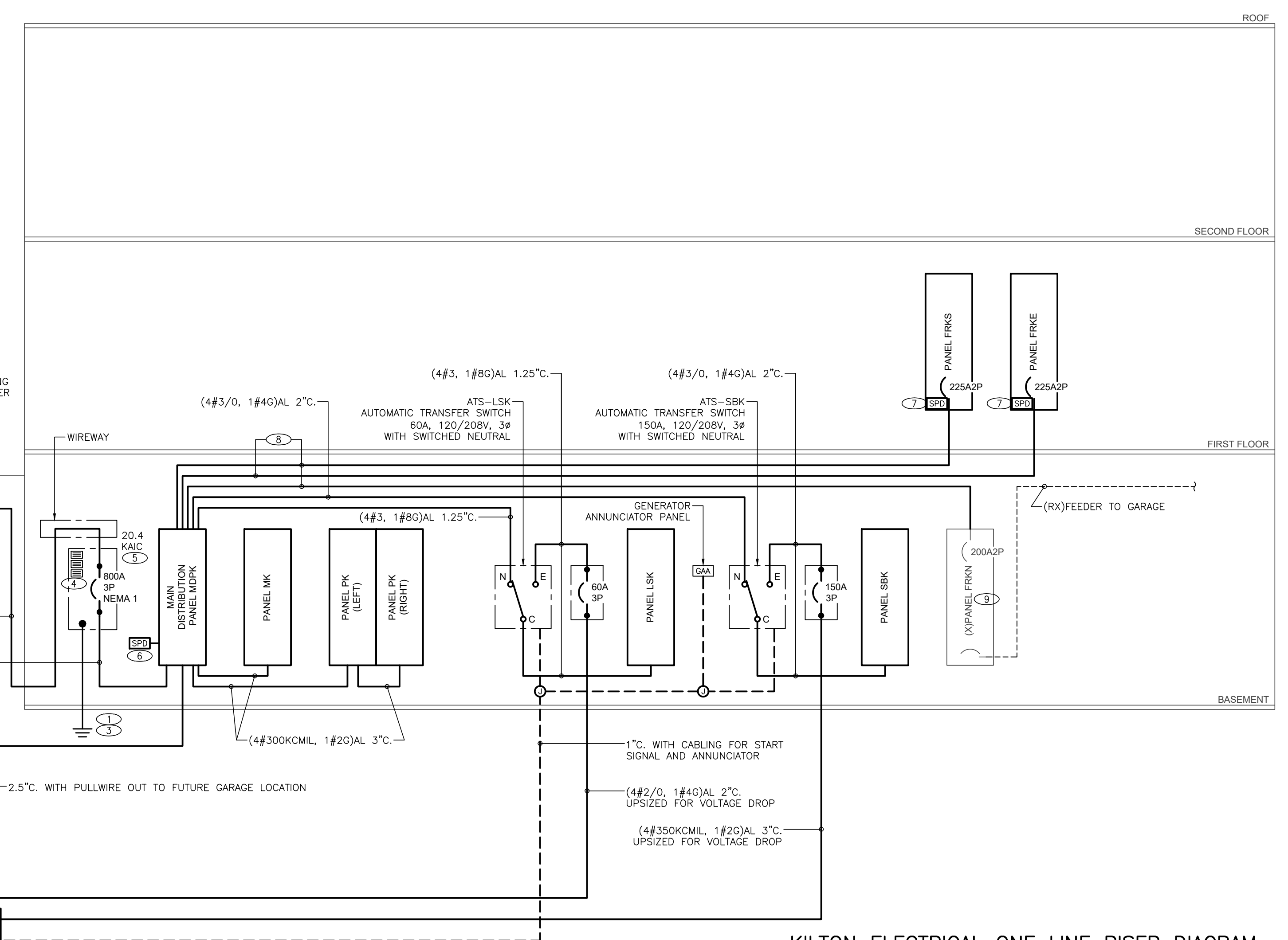
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**KUA
KILTON/WELCH
DORMITORIES**

Main Street
Meriden, NH 03770

**ELECTRICAL
ONE LINE
DIAGRAM**

E3



ELECTRICAL MONITORING SYSTEM:

PROVIDE POWER AND ENERGY MONITORING OF THE FOLLOWING POINTS FOR EACH OF THE KILTON AND WELCH DORMITORY BUILDINGS:

- KILTON POWER AND ENERGY MONITORING:**
- MAIN BUILDING SERVICE
 - FEEDERS TO EACH OF PANELS FRKN, FRKS, FRKE, LSK, AND SBK
 - FOR EACH OF THE NEW DORMITORY AND BOTH NEW FACULTY RESIDENCES (FR-A, FR-B):
 - Lighting
 - Ventilation
 - HVAC
 - DOMESTIC WATER HEAT
 - ELECTRIC VEHICLE CHARGING
 - PLUG LOADS (CAN BE CALCULATED OF BALANCE OF LOADS NOT INCLUDED IN THE LOADS, ABOVE)
 - COLD WATER CONSUMPTION (COLD WATER INTO BUILDING)
 - FLOW THROUGH WASTE WATER HEAT RECLAIM
 - TEMPERATURE ON INLET AND OUTLET SIDE OF HEAT RECLAIM

- WELCH POWER AND ENERGY MONITORING:**
- MAIN BUILDING SERVICE
 - FEEDERS TO EACH OF PANELS FRWN, FRWS, MW, PW, LSW, AND SBW
 - FOR EACH OF THE NEW DORMITORY AND NEW FACULTY RESIDENCE (FR-A):
 - Lighting
 - Ventilation
 - HVAC
 - DOMESTIC WATER HEAT
 - ELECTRIC VEHICLE CHARGING
 - PLUG LOADS (CAN BE CALCULATED OF BALANCE OF LOADS NOT INCLUDED IN THE LOADS, ABOVE)
 - COLD WATER CONSUMPTION (COLD WATER INTO BUILDING)
 - FLOW THROUGH WASTE WATER HEAT RECLAIM
 - TEMPERATURE ON INLET AND OUTLET SIDE OF HEAT RECLAIM

BASIS OF DESIGN FOR THE MONITORING SYSTEM IS PRODUCTS OF EGAUGE. PROVIDE TWO EGAUGE "PRO" FOR CONNECTIONS OF UP TO THIRTY CTS PER EACH EGAUGE UNIT. EACH UNIT MOUNTED IN AN EGAUGE POWERED ENCLOSURE KIT CONSISTING OF ENCLOSURE, DIN RAILS, RECEPTACLE, POWER DISTRIBUTION BLOCK AND WIRE SET.

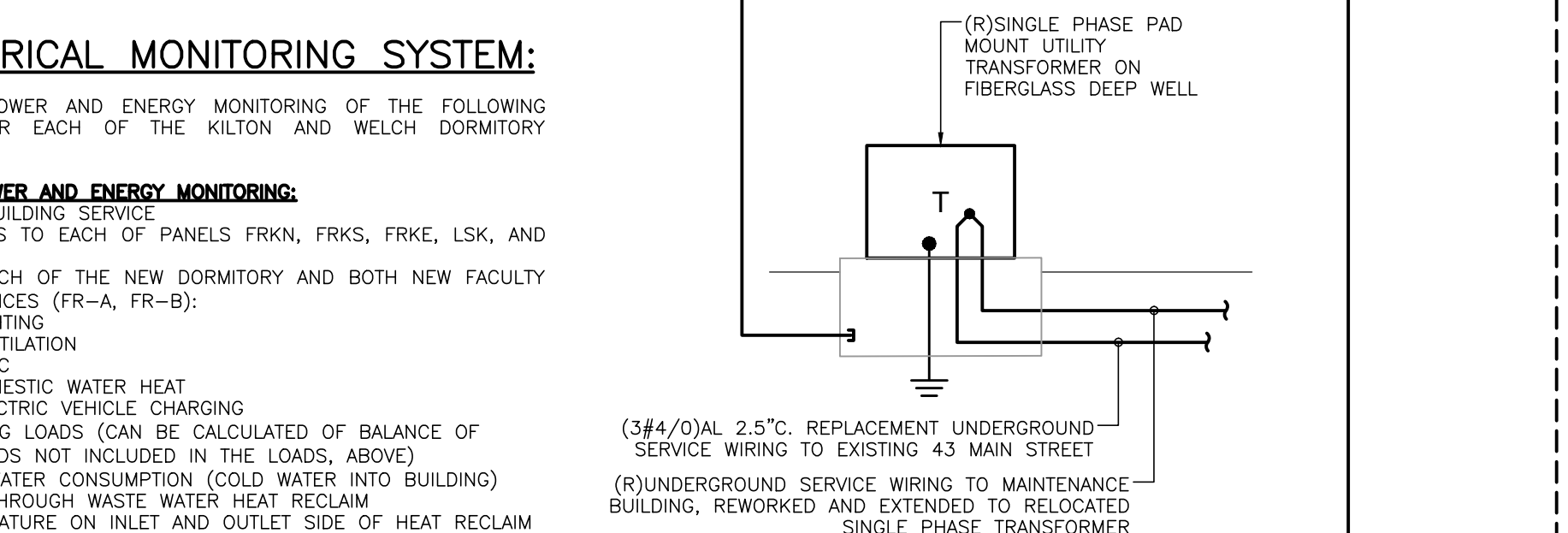
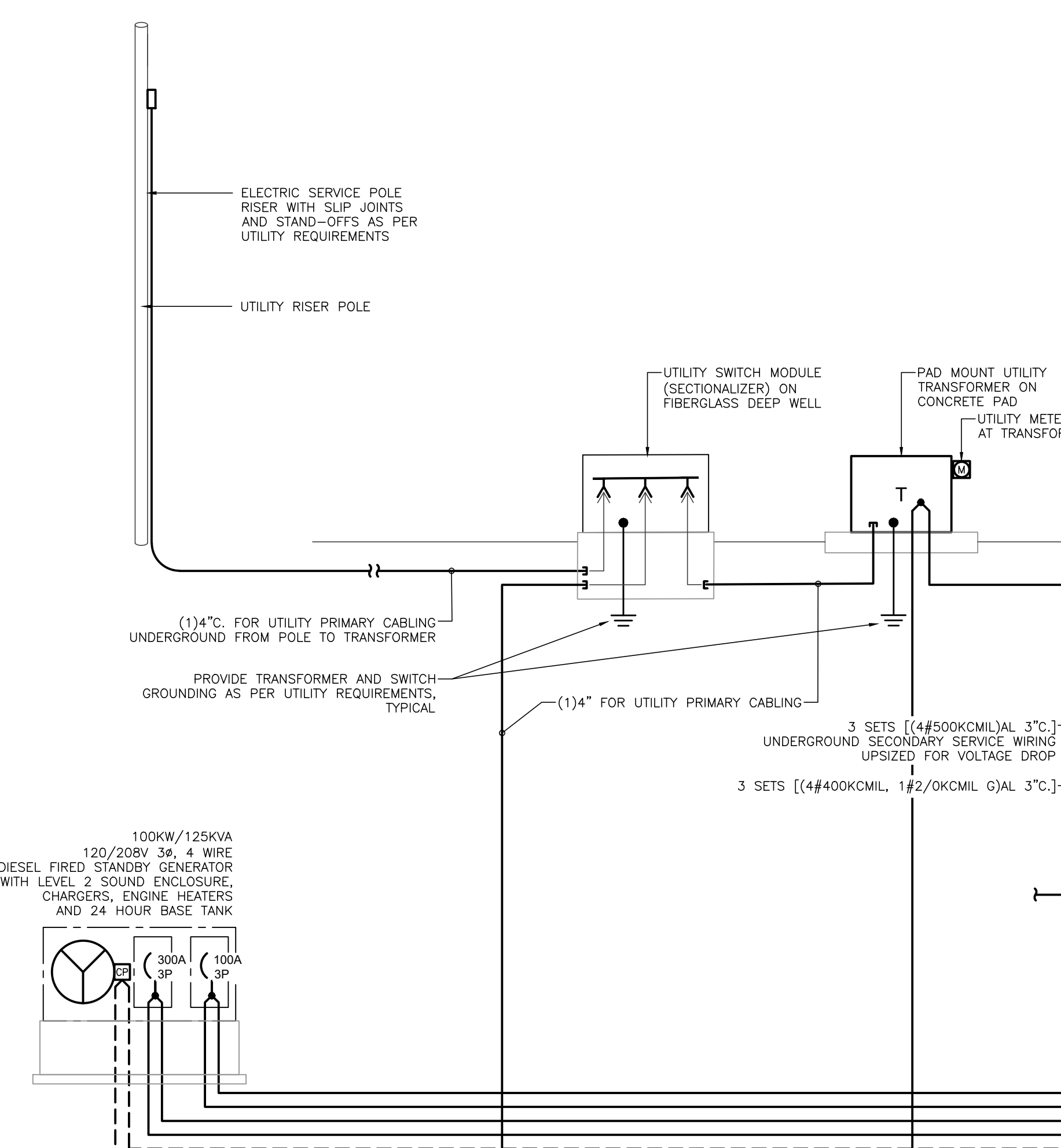
SYSTEM WILL REQUIRE A 15A 3P CONNECTION TO THE PANEL (3#12, 1#12N, 1#12G) 1/2", 20A 1P POWER CONNECTION TO RECEPTACLE AND CAT6 ETHERNET CONNECTION BACK TO PATCH PANEL.

PROVIDE A COMPLETE SYSTEM, INCLUDING ALL NECESSARY PARTS AND ACCESSORIES, AS WELL AS SET UP OF WEB-BASED MONITORING ON OWNER'S COMPUTER. THIS CONTRACTOR SHALL INCLUDE A MINIMUM OF 2 HOURS MANUFACTURER SUPPORT FOR PURPOSES OF SETTING UP THE SYSTEM.

LOCATE CURRENT TRANSFORMERS AT PANELS IN ELECTRIC ROOM, TO THE GREATEST EXTENT POSSIBLE.

LOCATE EQUIPMENT IN THE ELECTRICAL ROOM.

SUBMIT ALL PRODUCT INFORMATION FOR APPROVAL. SUBMITTAL SHALL BE BROKEN DOWN BY BUILDING, WITH OVERALL SYSTEM DIAGRAM. QUANTITIES OF DEVICES AND EQUIPMENT TO INCLUDE BREAKDOWN OF QUANTITIES AND RATINGS OF CURRENT TRANSFORMER EQUIPMENT FOR LOADS.



AUTOMATIC LIGHTING CONTROL DEVICE SCHEDULE					
SYMBOL	TYPE/DESCRIPTION	VOLTS/WATTS/AMPS	MANUFACTURER	SERIES/CATALOG NO.	COVERAGE/PATTERN
PF	PASSIVE-INFRARED CEILING MOUNT SENSOR	20A SWITCH LOAD, 15VDC CONTROL 5W, 120V INPUT	SENSOR SWITCH	CM-9 SENSOR; PP20/PP20-2P POWER PACK	450 SQUARE FEET 14' RADIUS 360° COVERAGE
DT	DUAL TECHNOLOGY CEILING MOUNT SENSOR	20A SWITCH LOAD, 15VDC CONTROL; 5W, 120V INPUT	SENSOR SWITCH	CM-PDT-9 SENSOR; PP20/PP20-2P POWER PACK	450 SQUARE FEET 14' RADIUS 360° COVERAGE
PI	PASSIVE INFRARED WALL MOUNT SENSOR	20A SWITCH LOAD, 15VDC CONTROL 5W, 120V INPUT	SENSOR SWITCH	WV-PDT-16 SENSOR; PP20/PP20-2P POWER PACK	40' RANGE 8' MOUNTING HEIGHT
\$ _{PIB}	PASSIVE-INFRARED WALL ON/OFF SENSOR SWITCH D = DIMMING VERSION	800W SWITCH LOAD, 120/277V RATED	SENSOR SWITCH	WSX	630 SQUARE FEET 20' RADIUS 180° COVERAGE
\$ _{DT}	DUAL TECHNOLOGY WALL ON/OFF SENSOR SWITCH D = DIMMING VERSION	800W SWITCH LOAD, 120/277V RATED	SENSOR SWITCH	WSX-PDT	630 SQUARE FEET 20' RADIUS 180° COVERAGE
ES	0-10VDC DIMMING DAYLIGHT SENSOR CONTROL	120VAC 12-24 VAC/VDC	SENSOR SWITCH	CMR-ADC CM-ADC	

AUTOMATIC LIGHTING CONTROL DEVICE SCHEDULE GENERAL NOTES:

- INSTALL OCCUPANCY SENSOR CONTROL DEVICES AND ALL ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATIONS TO OPTIMIZE CONTROLLER ABILITY (IE: AVOID PLACEMENT NEAR HVAC LOUVERS, MASKING OF SENSORS, ETC.).
 - SENSOR LOCATIONS INDICATED ON PLAN ARE APPROXIMATE; PROVIDE QUANTITIES NECESSARY AND LOCATE SENSORS AS PER THE MANUFACTURER'S APPROVED SHOP DRAWINGS.
 - WIRING OF AUTOMATIC LIGHTING CONTROLS AS INDICATED ON THE PLAN DRAWINGS IS INTENDED ONLY TO PROVIDE SWITCHGROUP DIRECTION; INTERCONNECT AUTOMATIC CONTROLS, MANUAL SWITCHES AND LUMINAIRES AS PER MANUFACTURER'S RECOMMENDATIONS.
- INDICATE FINAL LOCATIONS OF SENSORS AND ASSOCIATED DEVICES (SWITCHES, POWER PACKS/POWER SUPPLY MODULES) ON AS-BUILT DOCUMENTS.
- DUAL TECHNOLOGY SENSORS SHALL EMPLOY A COMBINATION OF PASSIVE-INFRARED AND EITHER ULTRASONIC OR MICRO-PHONIC TECHNOLOGY TO SENSE THE PRESENCE OF OCCUPANTS IN A SPACE.
- PROVIDE SENSOR FOR SURFACE OR RECESSED MOUNTING AS APPROPRIATE.
- REFER TO AUTOMATIC LIGHTING CONTROLS PERFORMANCE SPECIFICATION FOR ADDITIONAL INFORMATION.

LUMINAIRE SCHEDULE						
KEY	DESCRIPTION AND FINISH	MOUNTING	MANUFACTURER	SERIES OR TYPE (NOT A COMPLETE CAT. #)	VOLT/WATT	LAMP(S)
A3 •A3	3" ROUND LED WAFER DOWNLIGHT, WHITE ALUMINUM TRIM, REMOTE DRIVER BOX, 0-10VDC DIMMING, I.C. RATED.	CEILING RECESSED	ACUITY BRANDS LITHONIA	WF3 LED 30K MVOLT 90CRI MW	120V 8W	LED, INTEGRAL TO LUMINAIRE 540 LUMEN 50,000 HRS LM70 80 CRI 3,000K CCT
A4 •A4	4" ROUND LED WAFER DOWNLIGHT, WHITE ALUMINUM TRIM, REMOTE DRIVER BOX, 0-10VDC DIMMING, I.C. RATED.	CEILING RECESSED	ACUITY BRANDS LITHONIA	WF4 LED 30K MVOLT 90CRI MW (SET FOR 3,000K CCT COLOR TEMP.)	120/ 277V 11W	LED, INTEGRAL TO LUMINAIRE 1,090 LUMEN 50,000 HRS LM70 90 CRI 3,000K CCT
A6 •A6	6" ROUND LED WAFER DOWNLIGHT, WHITE ALUMINUM TRIM, REMOTE DRIVER BOX, 0-10VDC DIMMING, I.C. RATED.	CEILING RECESSED	ACUITY BRANDS LITHONIA	WF6 LED 30K MVOLT 90CRI MW (SET FOR 3,000K CCT COLOR TEMP.)	120/ 277V 14W	LED, INTEGRAL TO LUMINAIRE 1,090 LUMEN 50,000 HRS LM70 90 CRI 3,000K CCT
A8 •A8	8" ROUND LED WAFER DOWNLIGHT, WHITE ALUMINUM TRIM, REMOTE DRIVER BOX, 0-10VDC DIMMING, I.C. RATED.	CEILING RECESSED	ACUITY BRANDS LITHONIA	WF8 LED 30K MVOLT 90CRI MW (SET FOR 3,000K CCT COLOR TEMP.)	120/ 277V 21W	LED, INTEGRAL TO LUMINAIRE 1,890 LUMEN 50,000 HRS LM70 90 CRI 3,000K CCT
B •B	2" VANITY LUMINAIRE, NICKEL TONE FORMED STEEL HOUSING, WHITE ACRYLIC DIFFUSER.	(11)	BROWNLEE LIGHTING	5190 26 NT H16 30K ES	120/ 277V 16W	LED, INTEGRAL TO LUMINAIRE 1,506 LUMEN 100,000 HRS LM70 >80 CRI 3,000K CCT
D D	36" CIRCULAR LED PENDANT LUMINAIRE, LUMINOUS RING WITH WHITE METAL HOUSING, 5" HIGH MATTE OPAL DIFFUSER, 6.75" CANOPY STEM TO HUB WITH 3 AIRCRAFT CABLES ADJUSTED AS NECESSARY FOR MOUNTING HEIGHT, AND WHITE POWER CORD, 0-10VDC DIMMING	PENDANT ~14" AFF FIRST FLOOR TO BOTTOM	SPI LIGHTING	NOVATO RING PENDANT L110W 1220-277V 3000K H05 FB00 30M	120/ 277V 108W	LED, INTEGRAL TO LUMINAIRE 11,034 LUMEN 60,000 HRS LM70 >80 CRI 3,000K CCT
E •E	4" ROUND LED CYLINDER DECORATIVE PENDANT, MATTE ACRYLIC DIFFUSER, POWER CORD SUSPENSION WITH POWER SUPPLY CANOPY, 45" MEDIUM DISTRIBUTION, 0-10VDC DIMMING.	PENDANT ~6" AFF TO BOTTOM	SPI LIGHTING	VALLEJO LC PENDANT L14W 120-277V 3000K 10W-45" MEDIUM DF-MA01 DF-PSC	120/ 277V 10W	LED, INTEGRAL TO LUMINAIRE 800 LUMEN 60,000 HRS LM70 >80 CRI 3,000K CCT
F •F	24" ROUND x 6" HIGH DIRECT/INDIRECT LED PENDANT LUMINAIRE, WHITE ACRYLIC DIFFUSER, ENCASED WHITE LINEN DRUM, WHITE METAL HOUSING, POWER CORD WITH 3 AIRCRAFT CABLE SUSPENSION (OVERALL 30" LENGTH), 0-10VDC DIMMING.	PENDANT, OVERALL 30" SUSPENSION	BROWNLEE LIGHTING	CLEAN 6 2630 24 NT H30 EWL CC3 30K	120/ 277V 30W	LED, INTEGRAL TO LUMINAIRE 3,000 LUMEN 60,000 HRS LM70 >80 CRI 3,000K CCT
G G X	LINEAR DIRECT/INDIRECT WALL MOUNT LED LUMINAIRE, ALUMINUM HOUSING, SATIN SILVER FINISH, FLUSH DIRECT LENS, TOP GLOW INDIRECT LENS, 4.25" H x 2.5" D x X" (LENGTHS IDENTIFIED ON PLAN DRAWING)	(11)	MARK ARCHITECTURAL LIGHTING	S2WID LLP 80CRI 30K 300LMF 180CRI 130K 4.3 1300LMF SCT NODIM FLL TGLD MVOLT	120/ 277V 4.3 W/FT	LED, INTEGRAL TO LUMINAIRE 271 LU DIRECT 315 LU INDIRECT 60,000 HRS LM70 >80 CRI 3,000K CCT
K •K	DIRECT/INDIRECT LED WALL SCONCE LUMINAIRE, 12"W x 2.25"D x 3.5"H, FORMED STEEL HOUSING, ENERGY STAR LISTED. FINISH AS SELECTED BY ARCHITECT.	WALL 6" AFF TO CENTER	BROWNLEE LIGHTING	BRICK-ID 1575D 12 ___ H16 30K ES	120/ 277V 16W	LED, INTEGRAL TO LUMINAIRE 1,357 LUMEN 60,000 HRS LM70 >70 CRI 3,000K CCT
UC UC	24V LED TAPE LIGHT, 121LU/FT, 3W/FT, SLIM EXTRUDED ALUMINUM CHANNEL, FROSTED SNAP-IN LENS, DIMMER/DRIVER WALL CONTROLLER. PROVIDE ALL CONNECTORS, SPLICES, ETC. FOR COMPLETE INSTALLATION. LENGTHS AS PER PLAN DRAWINGS. (13)	REFER TO NOTE ON PLAN DRAWINGS	DIODE LED	24V-BLSC2 DI-CPCHA-SL D124V-SE-60W	120V 3 W/FT	LED, INTEGRAL TO LUMINAIRE 121 LUMEN/FOOT 90 CRI 3,000K CCT
ST ST	48" LED STRIP LIGHT WITH FROSTED DROPPED LENS, FORMED WHITE METAL HOUSING, INTEGRAL PASSIVE INFRARED OCCUPANCY SENSOR.	CEILING SURFACE	ACUITY BRANDS LITHONIA	CSS L48 4000LM MVOLT 35K 80CRI SFR7C55	120/ 277V 35W	LED, INTEGRAL TO LUMINAIRE 4,298 LUMEN 100,000 HRS LM70 >80 CRI 3,000K CCT
ST1 ST1	48" LED STRIP LIGHT WITH FROSTED DROPPED LENS, FORMED WHITE METAL HOUSING.	CEILING SURFACE	ACUITY BRANDS LITHONIA	CSS L48 4000LM MVOLT 35K 80CRI	120/ 277V 35W	LED, INTEGRAL TO LUMINAIRE 4,298 LUMEN 100,000 HRS LM70 >80 CRI 3,000K CCT
SA •SA	DECORATIVE POST TOP LUMINAIRE, TO MATCH CAMPUS STANDARD; LUMINAIRE, POLE, FINISH, OVERALL HEIGHT, TO MATCH EXISTING.	10' POLE ON CONCRETE BASE	COOPER VALMONT	STREETWORKS UTILD TRADITIONAIRE UTILD PA1 70W 740 U T3 A BK 090830504T4	120/ 277V 74W	LED, INTEGRAL TO LUMINAIRE 7,359 LUMEN 100,000 HRS LM70 >80 CRI 4,000K CCT
EXIT	EXIT LUMINAIRE, WHITE THERMOPLASTIC HOUSING, RED LED LETTERS, WITH FACES AND ARROWS AS INDICATED.	(12)	DUAL-LITE	EVC	120V 3W	LED; PROVIDED INTEGRAL TO LUMINAIRE
EBU	EMERGENCY BATTERY UNIT (EBU) WITH TWO LED LIGHTING HEADS, WHITE THERMOPLASTIC HOUSING, BATTERY FOR SELF POWERING OF LIGHTING HEADS FOR MINIMUM 90 MINUTES SELF-POWERED OPERATION	(12)	DUAL-LITE OR APPROVED EQUAL	EV4	120V 2W	LED LAMP HEADS PROVIDED INTEGRAL TO LUMINAIRE

LUMINAIRE SCHEDULE KEYED NOTES:

(11) WHERE LUMINAIRE IS MOUNTED ABOVE THE VANITY, CENTER ON VANITY, 6" ABOVE TOP OF MIRROR.

(12) MOUNT LUMINAIRE 96" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. WHERE SHOWN ABOVE A DOOR, MOUNT CENTERED ABOVE DOOR FRAME, 8" ABOVE THE TOP OF THE DOOR. WHERE EMERGENCY AND EXIT LUMINAIRES ARE SHOWN ABOVE A DOOR, MOUNT THE EMERGENCY LUMINAIRE CENTERED ABOVE THE EXIT SIGN.

(13) PROVIDE COMPLETE SYSTEM OF LED TAPE, INCLUDING POWER SUPPLY(S), MOUNTING CHANNEL AND WIRING FOR A COMPLETE SYSTEM. CONCEAL POWER SUPPLY. ROUTE ALL WIRING CONCEALED (OUT OF VIEW) IN A NEAT AND WORKMANLIKE MANNER.

GENERAL NOTES:

REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING AS WELL AS ANY NOTES WHICH FOLLOW.

LIGHTING CONTROL PERFORMANCE SPECIFICATION

GENERAL LIGHTING CONTROL OPERATIONS:

- PROVIDE STAND-ALONE LIGHTING CONTROLS CONSISTING OF MANUAL SWITCHES, OCCUPANCY SENSORS AND DAYLIGHT SENSORS.
- MANUAL SWITCHES: OVER-RIDE AUTOMATIC CONTROLS TO SWITCH ALL LUMINAIRES BEING CONTROLLED, OFF.
- OCCUPANCY SENSORS: SET UP AS VACANCY SENSORS; TURN OFF LUMINAIRES IN THE SPACE BASED UPON NO OCCUPANCY AND LUMINAIRES MUST BE TURNED BACK ON MANUALLY. OCCUPANCY SENSORS SHALL BE ADJUSTED TO TURN LUMINAIRES OFF AFTER 10 MINUTES OF SENSING NO OCCUPANCY.
- AUTOMATIC LIGHTING CONTROL EQUIPMENT SHALL BE PRODUCTS OF ONE MANUFACTURER.
- WHERE MANUAL DIMMING SWITCHES ARE INDICATED TO BE PROVIDED, COORDINATE DIMMING TYPE (STANDARD, 0-10VDC, ETC.) WITH LUMINAIRES BEING CONTROLLED TO ENSURE COMPATIBILITY.
- 0-10VDC WIRING SHALL BE 300V RATED 18-2. MAINTAIN CONSISTENT VIOLET (+) AND PINK (-) COLOR CODING THROUGHOUT ALL 0-10VDC DIMMING CONTROL WIRING.
- DAYLIGHT SENSORS: PROVIDE DAYLIGHT DIMMING (0-10VDC) CONTROL OF LUMINAIRES BASED UPON AVAILABLE DAYLIGHT. ADJUST CONTROL FOR LUMINAIRE TO PROVIDE FOOT-CANDLE LEVELS INDICATED IN SCHEDULES, AVERAGE, MAINTAINED WHEN DAYLIGHT IS AVAILABLE, MINIMUM.
- DAYLIGHT DIMMING CONTROLS AND MANUAL DIMMING CONTROLS WORK TOGETHER SUCH THAT THE DIMMED LIGHTING LEVEL IN THE SPACE IS CONTROLLED BY WHICHEVER DIMMING CONTROL (DAYLIGHT OR MANUAL) IS DEMANDING LESS LIGHT OUTPUT.
- EXTERIOR LIGHTING SHALL BE CONTROLLED BY MANUAL SWITCHES WITH PHOTOCELL OVERRIDE, OFF, UNLESS OTHERWISE NOTED.
- PROVIDE UL924 RELAYS AS NECESSARY FOR OVERRIDING AUTOMATIC LIGHTING CONTROLS TO BRING ALL EMERGENCY (LIFE SAFETY) LUMINAIRES ON, AT FULL BRIGHTNESS.
- BASIS OF DESIGN PRODUCT IS LVS EPC-2-D PRODUCT FOR FLUSH MOUNTING IN WALL IN STANDARD DEVICE BOX. MOUNT DEVICE ~8" AFF WITHIN THE AREA BEING CONTROLLED TO BE ACCESSIBLE FOR TESTING.
- UPON LOSS OF NORMAL UTILITY POWER OR WHEN FIRE ALARM GOES INTO ALARM, UL924 RELAY SHALL PROVIDE OVERRIDE OF AUTOMATIC CONTROLS.
- SUBMIT PRODUCT FOR REVIEW AND APPROVAL.
- SUBMIT SUBMITTAL INFORMATION SPECIFIC FOR CONTROL SYSTEM, INCLUDING WIRING DIAGRAMS SPECIFIC FOR THE PROJECT SHOWING ALL INTERCONNECTION WIRING AND DEVICES.
 - INCLUDE INFORMATION ON EACH TYPE OF DEVICE BEING USED; INDICATE SPECIFIC DEVICE ON SUBMITTAL.
 - ENSURE COMPATIBILITY WITH LUMINAIRES BEING CONTROLLED.
 - PROVIDE WIRING DIAGRAMS SHOWING CONTROL GROUP WIRING AS WELL AS CONNECTIONS TO THE EXISTING NETWORKED LIGHTING CONTROL SYSTEM.
 - REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL PROVIDE ALL PROGRAMMING, ADJUSTMENTS AND OWNER TRAINING ON THE LIGHTING CONTROL SYSTEM.
 - CONTRACTOR SHALL DEMONSTRATE THE OPERATIONS OF THE LIGHTING CONTROL SYSTEM AND RUN IT THROUGH ITS PACES WITH THE OWNER.
 - CONTRACTOR SHALL PROVIDE MINIMUM 1.5 HOURS OF OWNER TRAINING CONDUCTED BY A MANUFACTURER'S TECHNICIAN.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY PROGRAMMING AND ADJUSTMENTS OF THE LIGHTING CONTROL SYSTEM TO ENSURE OPERATION IS TO OWNER'S SATISFACTION.



VERMONT INTEGRATED ARCHITECTURE, PC

ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com

ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
802.989.7249

CIVIL ENGINEER

Kevin Warden, P.E.
Engineering Ventures
kevinw@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E., President
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER

Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvtlc.com
802.855.8091

ELECTRICAL ENGINEER

CLAUS BARTENSTEIN, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.bartenstein@esvtlc.com
802.855.8091

CONSTRUCTION MANAGER

NAME & TITLE
ReArch Company, Inc.
EMAIL HERE
802.863.8727

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KUA
KILTON/WELCH
DORMITORIES

Main Street
Meriden, NH 03770

ELECTRICAL
LUMINAIRE
SCHEDULE

E4

CIVIL ENGINEER

Kevin Warden, P.E.
Engineering Ventures
kevinw@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E., President
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER

Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvtc.com
802.855.8091

ELECTRICAL ENGINEER

CLAUS BARTENSTEIN, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.bartenstein@esvtc.com
802.855.8091

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**ELECTRICAL
DEMOLITION**

EK5

GENERAL NOTES:

REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING AS WELL AS ANY NOTES WHICH FOLLOW.

REFER TO GENERAL DEMOLITION NOTES ON DRAWING E2 WHICH APPLY TO THIS DRAWING AS WELL AS ANY NOTES WHICH FOLLOW.

DEMOLITION DRAWING NOTES:

1 DISCONNECT AND REMOVE ALL ELECTRICAL FROM THIS AREA TO ALLOW FOR CONSTRUCTION OF NEW STAIR. REMOVE ALL ASSOCIATED WIRING BACK TO SOURCE OR LAST LIVE OUTLET TO REMAIN.

2 DISCONNECT AND REMOVE ALL ELECTRICAL FROM THIS PORTION OF WALL TO ALLOW FOR ITS DEMOLITION. RETAIN EXISTING POWER WIRING FOR REUSE.

3 DISCONNECT AND REMOVE ALL ELECTRICAL FROM THE PORCH TO ALLOW FOR CONSTRUCTION OF NEW DORMITORY ADDITION. REMOVE ALL ASSOCIATED WIRING BACK TO SOURCE OR LAST LIVE OUTLET TO REMAIN.

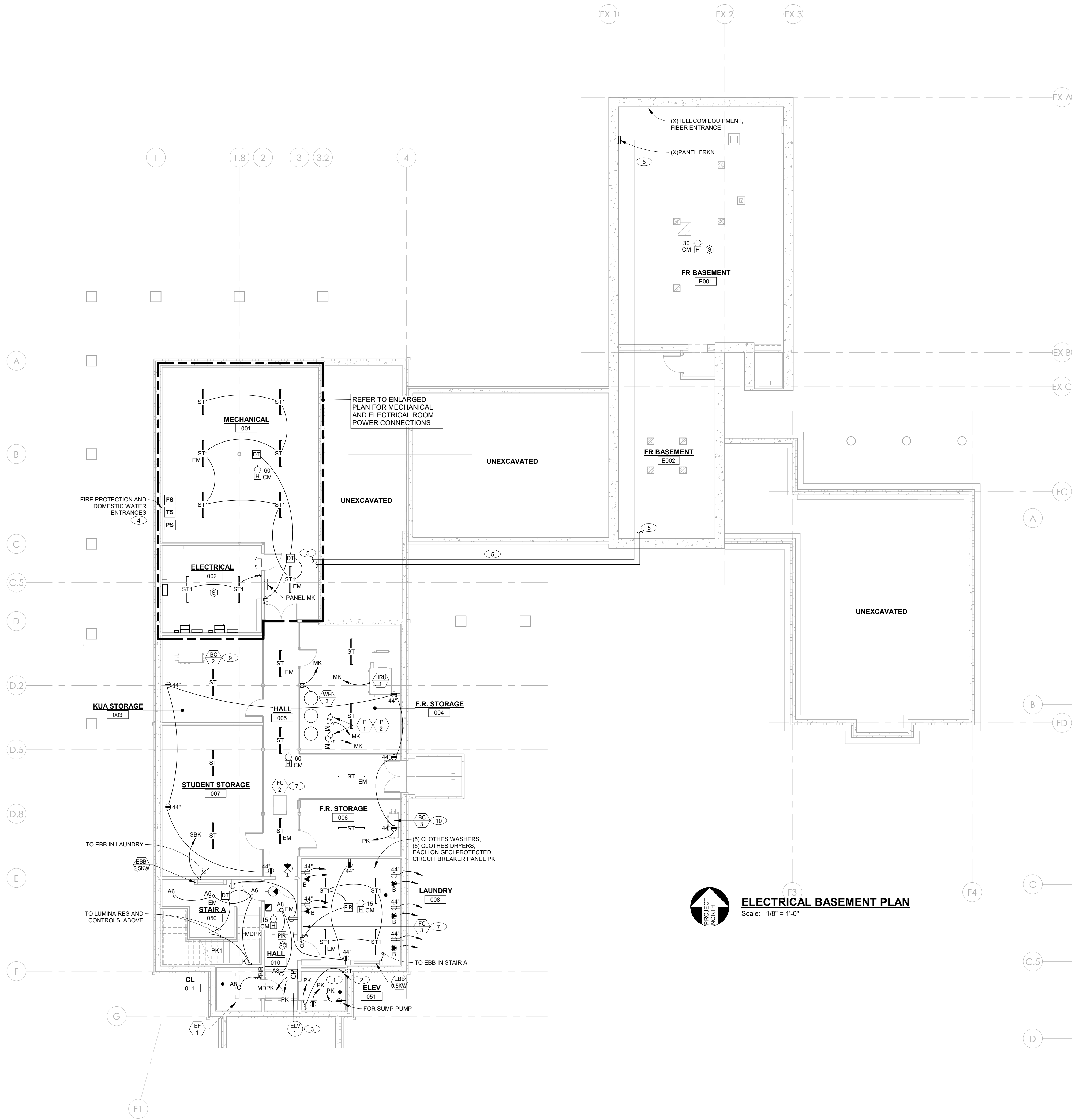
4 DISCONNECT AND REMOVE ALL ELECTRICAL FROM THIS WALL TO ALLOW FOR ITS DEMOLITION. RETAIN EXISTING POWER WIRING FOR REUSE.

5 DISCONNECT AND REMOVE ELECTRICAL FROM THIS AREA AS REQUIRED TO DEMOLISH STAIR. RETAIN EXISTING POWER WIRING FOR REUSE.



ELECTRICAL DEMOLITION SECOND FLOOR
SCALE: 1/8"=1'-0"

ELECTRICAL DEMOLITION FIRST FLOOR
SCALE: 1/8"=1'-0"



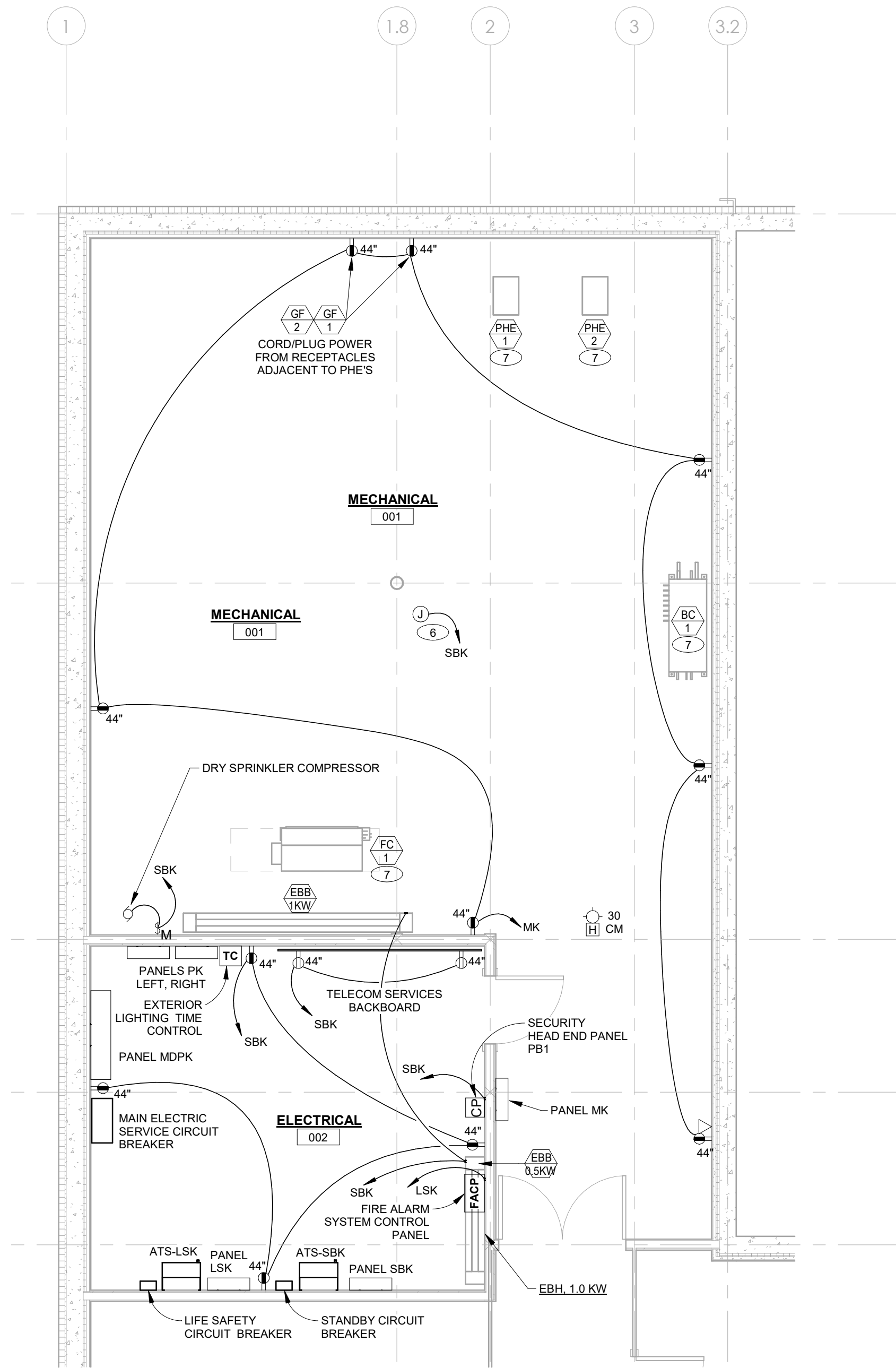
ELECTRICAL BASEMENT PLAN
Scale: 1/8" = 1'-0"

DRAWING NOTES:

- THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
1. INSTALL SERVICE RECEPTACLE, SWITCH, LIGHT AND SUMP RECEPTACLE. COORDINATE LOCATIONS WITH APPROVED ELEVATOR SHOP DRAWING AND ELEVATOR INSTALLER PRIOR TO ROUGH-IN.
 2. LOCATE A TYPE ST LUMINAIRE MOUNTED VERTICALLY IN CORNER OF SHAFT.
 3. ELEVATOR CONTROLLER IS INTEGRAL TO THE ELEVATOR FACING INTO THE CORRIDOR WITH DISCONNECTS INTEGRAL TO THE CONTROLLER. PROVIDE POWER CONNECTIONS FOR ELEVATOR POWER, CAB LIGHTING AND A CAB POTS LINE FOR CAB TELEPHONE. PROVIDE A FIRE ALARM SYSTEM RELAY MODULE CONNECTION TO ELEVATOR CONTROLLER FOR ELEVATOR RECALL. COORDINATE FINAL LOCATIONS WITH APPROVED ELEVATOR SHOP DRAWING AND ELEVATOR INSTALLER.
 4. PROVIDE MONITORING OF SPRINKLER FLOW AND TAMPER SWITCHES BY THE FIRE ALARM SYSTEM. COORDINATE QUANTITY OF FIRE PROTECTION DEVICES TO BE MONITORED WITH THE APPROVED FIRE PROTECTION SHOP DRAWING AND SYSTEM INSTALLER.
 5. PROVIDE NEW FEEDER UNDERGROUND TO PANEL FRNK FROM MDPK. PROVIDE A 1.5" CONDUIT PARALLEL FOR NEW CIRCUITS FROM PANEL MK TO MECHANICAL EQUIPMENT. PROVIDE (2) 2.5" SPARE CONDUITS PARALLEL FOR COMMUNICATIONS/FUTURE (REFER TO LV SERIES DRAWINGS).
 6. PROVIDE CIRCUIT FOR MECHANICAL CONTROL POWER. COORDINATE LOCATIONS WITH MECHANICAL.
 7. PROVIDE A COMMON CIRCUIT FROM PANEL MK TO SERVE BC1, PHE1, PHE2, FC1, FC2, FC3.
 8. PROVIDE A COMMON CIRCUIT FROM PANEL MK TO SERVE FC4, FC5, FC8, FC9, FC11, FC12.
 9. PROVIDE A COMMON CIRCUIT FROM PANEL MK TO SERVE BC2, FC10, FC13, FC14, FC21, FC22, FC23, FC24, FC25.
 10. PROVIDE A COMMON CIRCUIT FROM PANEL MK TO SERVE BC3, FC7, FC8, FC15.
 11. PROVIDE A COMMON CIRCUIT FROM PANEL MK TO SERVE FC16, FC17, FC18, FC19, FC20.
 12. PROVIDE WIRING FROM HP3 THROUGH ALL OF FC4A THROUGH FC4I.

GENERAL NOTES:

- REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING, AS WELL AS ANY NOTES WHICH FOLLOW.
- PROVIDE LIGHTING CIRCUITS AS FOLLOWS:
1. LIFE SAFETY: PROVIDE A COMMON CIRCUIT IN PANEL LSK TO SERVE ALL LUMINAIRES AT BASEMENT, FIRST AND SECOND FLOORS AND EXTERIOR IDENTIFIED "EM" AND ALL EXIT LUMINAIRES.
 2. STANDBY: PROVIDE A COMMON CIRCUIT IN PANEL SBK TO SERVE ALL LUMINAIRES IN:
 - A. 001 MECHANICAL
 - B. 002 ELECTRICAL
 - C. 005 HALL
 - D. 010 HALL
 - E. 050 STAIR A
 3. PROVIDE A COMMON CIRCUIT IN PANEL PK TO SERVE ALL LUMINAIRES IN THE BALANCE OF THE DORMITORY BASEMENT.



ENLARGED ELECTRIC & MECHANICAL ROOMS
Scale: 1/4" = 1'-0"



ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com
ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
802.989.7249

CIVIL ENGINEER

Kevin Worden, P.E.
Engineering Ventures
kevinw@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E. President
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER

Daniel Dupros, P.E.
Engineering Services of Vermont, LLC
daniel.dupros@esvllc.com
802.885.8091

ELECTRICAL ENGINEER

Claus Bartenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.bartenstein@esvllc.com
802.885.8091

CONSTRUCTION MANAGER

NAME & TITLE
ReArch Company, Inc.
EMAIL HERE
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**KILTON
ELECTRICAL
BASEMENT**

EK6



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**KUA
KILTON/WELCH
DORMITORIES**

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**KILTON
LIGHTING FIRST
FLOOR**

EK7

DRAWING NOTES:

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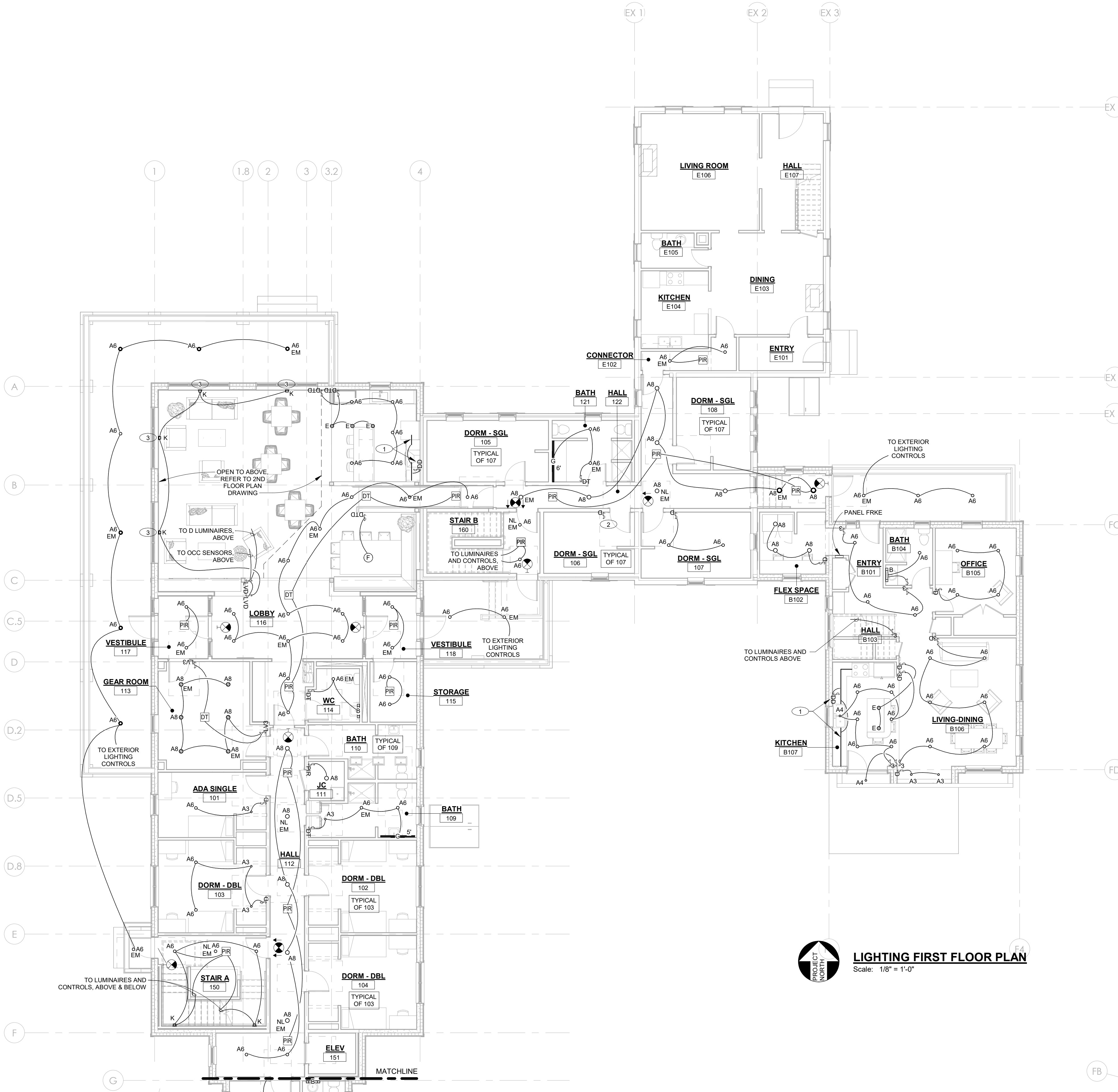
- 1 MOUNT TYPE UC UNDERCABINET LED TAPE LUMINAIRES TO UNDERSIDE OF CABINETRY, -1" BACK FROM THE FRONT UNDERSIDE FRAME, CONCEALED BY BOTTOM LIP OF THE CABINET. PROVIDE LENGTHS AS NECESSARY. PROVIDE DIMMER SWITCH INCORPORATING BOTH ON/OFF/DIMMING CONTROL AND DRIVER. CONCEAL ALL CABLING FROM VIEW, SECURING ATTACHING AND RUN AT UNDERSIDE OF CABINETRY. CONNECT TO UNSWITCHED PORTION OF GFCI PROTECTED CIRCUIT SERVING THE RANGE HOOD.
- 2 BASE BID, PROVIDE NEW SWITCH FOR EXISTING DORM ROOM LIGHTING TO ACCOMMODATE WALL WORK. REWORK AND EXTEND SWITCHLEG WIRING TO NEW SWITCH, AS NECESSARY.
- 3 CENTER LUMINAIRE IN-BETWEEN THE UPPER AND LOWER WINDOWS.

GENERAL NOTES:

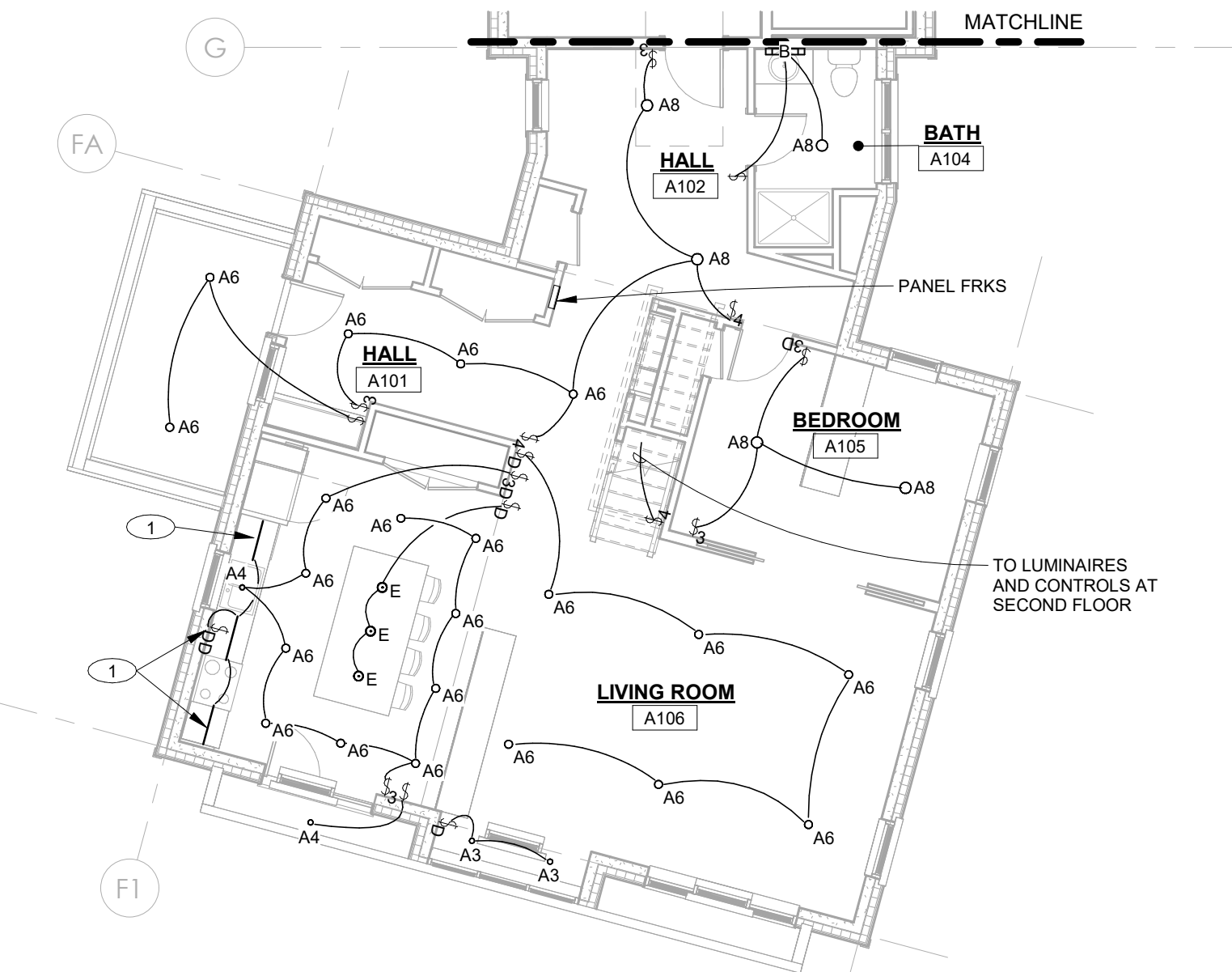
REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING, AS WELL AS ANY NOTES WHICH FOLLOW.

PROVIDE LIGHTING CIRCUITS AS FOLLOWS:

1. LIFE SAFETY: PROVIDE A COMMON CIRCUIT IN PANEL LSK TO SERVE ALL LUMINAIRES AT BASEMENT, FIRST AND SECOND FLOORS AND EXTERIOR IDENTIFIED "EM" AND ALL EXIT LUMINAIRES.
2. STAND-BY: PROVIDE A COMMON CIRCUIT IN PANEL SBK TO SERVE ALL LUMINAIRES IN:
 - A. WEST PORCH
 - B. EAST PORCH
 - C. STAIR B PORCH
 - D. 109 BATH
 - E. 110 BATH
 - F. 114 WATER CLOSET
 - G. 116 LOBBY
 - H. 117 VESTIBULE
 - I. 118 VESTIBULE
 - J. 119 LOUNGE
 - K. 122 HALL
 - L. E102 CONNECTOR
 - M. 150 STAIR A
 - N. 160 STAIR B
3. PROVIDE A COMMON CIRCUIT IN PANEL PK TO SERVE ALL LUMINAIRES IN THE BALANCE OF THE DORMITORY FIRST FLOOR.



LIGHTING FIRST FLOOR PLAN
Scale: 1/8" = 1'-0"



LIGHTING FIRST FLOOR PLAN SOUTH
Scale: 1/8" = 1'-0"

DRAWING NOTES:

THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.

1 (NOT USED)

GENERAL NOTES:

REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING, AS WELL AS ANY NOTES WHICH FOLLOW.

PROVIDE LIGHTING CIRCUITS AS FOLLOWS:

1. LIFE SAFETY: PROVIDE A COMMON CIRCUIT IN PANEL LSK TO SERVE ALL LUMINAIRES AT BASEMENT, FIRST AND SECOND FLOORS AND EXTERIOR IDENTIFIED "EM" AND ALL EXIT LUMINAIRES.
2. STAND-BY: PROVIDE A COMMON CIRCUIT IN PANEL SBK TO SERVE ALL LUMINAIRES IN:
A. 212 BATH
B. 215 LOUNGE
C. 216 BATH
D. 217 HALL
E. 223 HALL
F. 250 STAIR A
G. 260 STAIR B
3. PROVIDE A COMMON CIRCUIT IN PANEL PK TO SERVE ALL LUMINAIRES IN THE BALANCE OF THE DORMITORY SECOND FLOOR.



VERMONT INTEGRATED ARCHITECTURE, PC

ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com

ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
802.989.7249

CIVIL ENGINEER

Kevin Worden, P.E.
Engineering Ventures
kevinw@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E. President
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER

Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvllc.com
802.885.8091

ELECTRICAL ENGINEER

Claus Bartenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.bartenstein@esvllc.com
802.885.8091

CONSTRUCTION MANAGER

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EMAIL HERE
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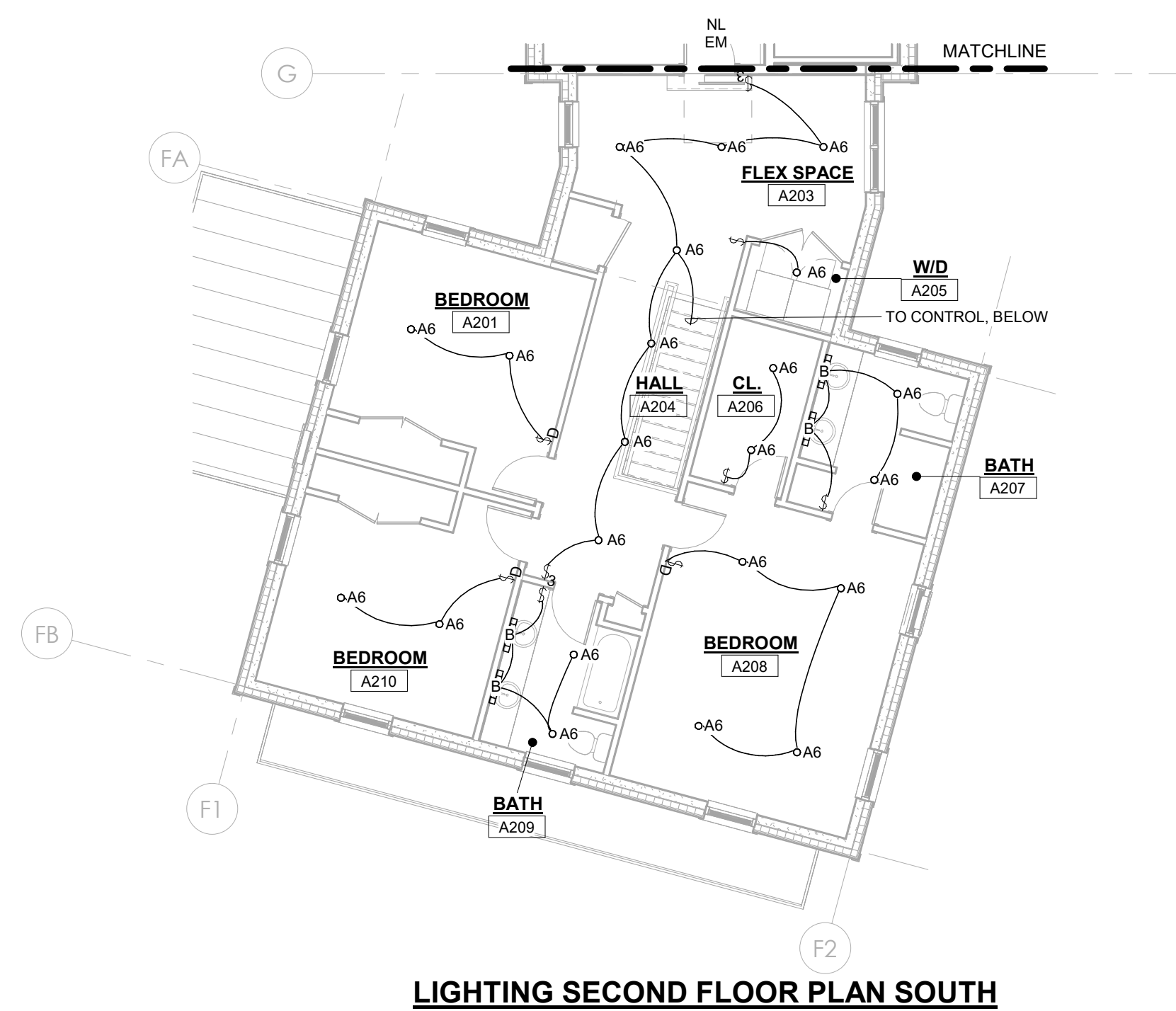
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**KILTON
LIGHTING
SECOND FLOOR**

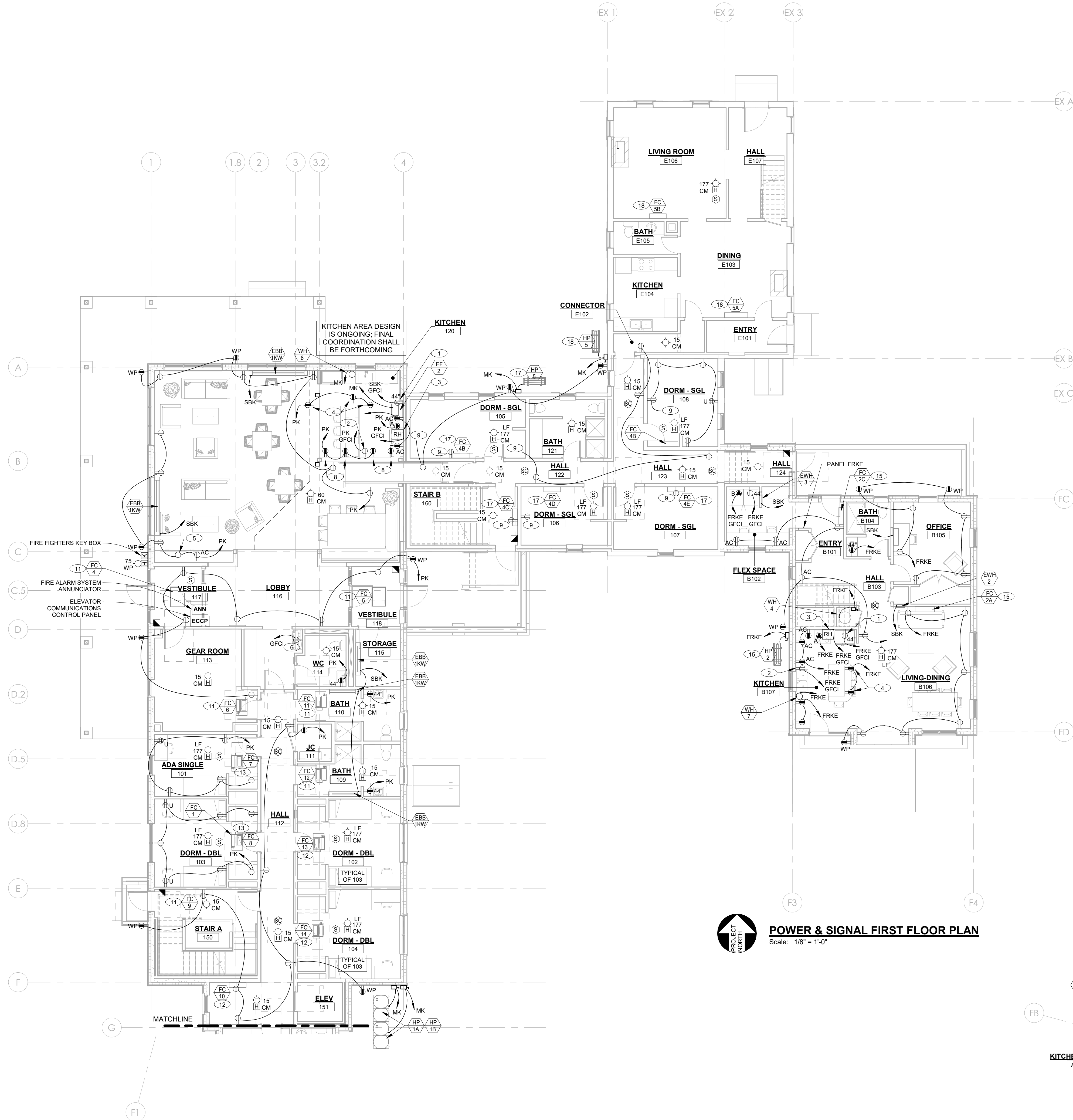
EK8



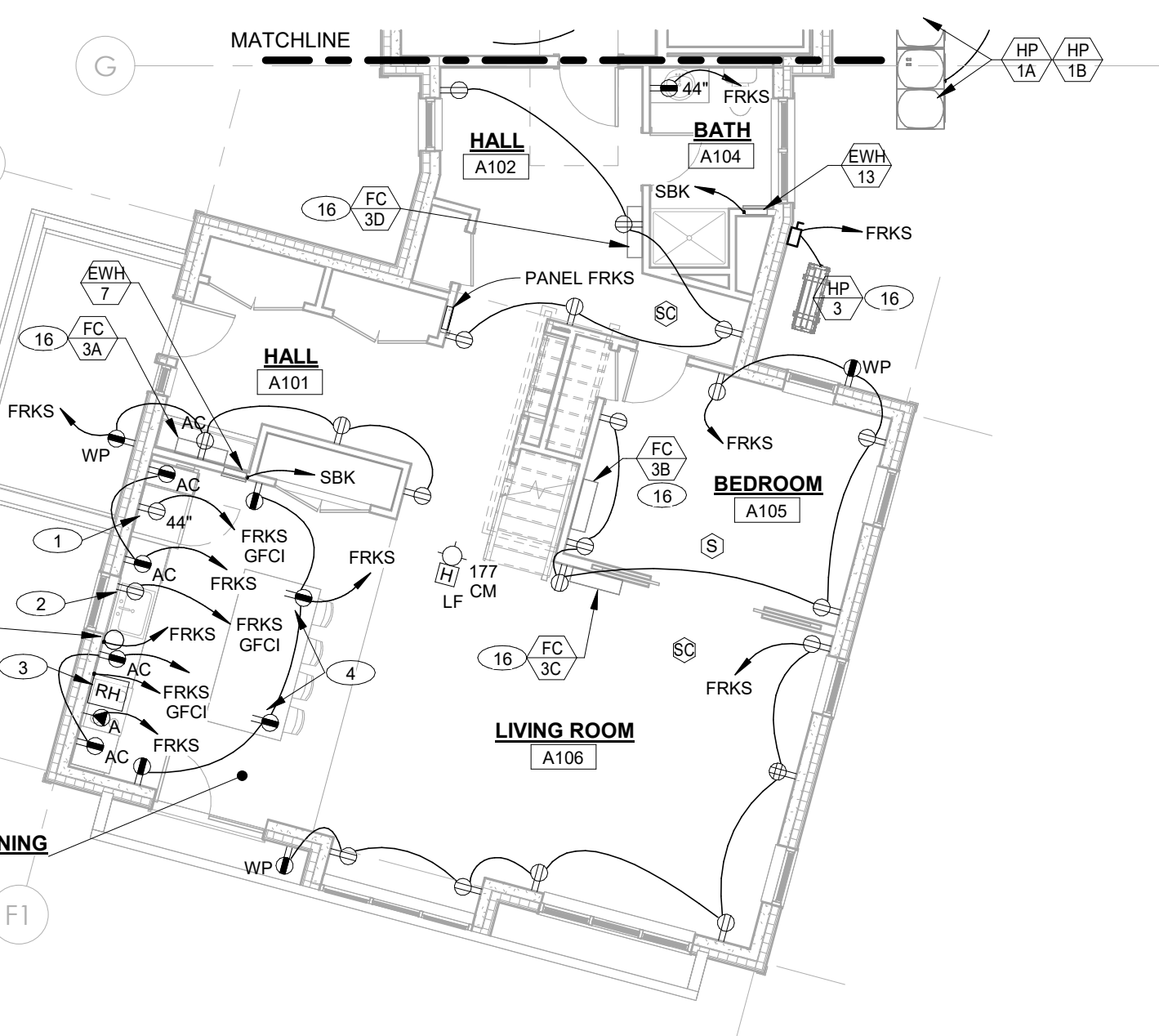
F3 LIGHTING SECOND FLOOR PLAN
Scale: 1/8" = 1'-0"



LIGHTING SECOND FLOOR PLAN SOUTH
Scale: 1/8" = 1'-0"



POWER & SIGNAL FIRST FLOOR PLAN
 Scale: 1/8" = 1'-0"



POWER & SIGNAL FIRST FLOOR PLAN SOUTH
 Scale: 1/8" = 1'-0"

DRAWING NOTES:

- THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- 1 DEDICATED REFRIGERATOR CIRCUIT ON GFCI PROTECTED CIRCUIT BREAKER.
 - 2 DEDICATED DISHWASHER CIRCUIT ON GFCI PROTECTED CIRCUIT BREAKER. RECEPTACLE SHALL BE ACCESSIBLE THROUGH THE CABINTRY BELOW THE SINK.
 - 3 KITCHEN HOOD POWER CONNECTION ON GFCI PROTECTED CIRCUIT. SAME CIRCUIT SHALL SERVE ANY UNDERCABINET LIGHTING.
 - 4 LOCATE RECEPTACLE IN ISLAND CASEWORK, HORIZONTAL, ~4" BELOW UNDERSIDE OF COUNTER, AS PER NEC REQUIREMENTS. COORDINATE LOCATIONS OF DEVICES AND ROUTING OF WIRING CONCEALED WITHIN CABINTRY WITH CASEWORK INSTALLER.
 - 5 WALL MOUNTED TELEVISION OR MONITOR LOCATION. PROVIDE A FLUSH DEVICE STYLE BOX FOR POWER AND CABLING IN A COMMON, RECESSED MANNER. SEE LOW VOLTAGE DRAWINGS FOR COMMUNICATION DEVICE. BASIS OF DESIGN IS ARLINGTON TVB5613 STEEL MEDIA BOX. MOUNT ~66" AFF. UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT'S ELEVATION DRAWINGS. SUBMIT FLUSH MOUNTED BOX INFORMATION FOR APPROVAL.
 - 6 RECEPTACLE FOR WATER COOLER ON A DEDICATED GFCI PROTECTED CIRCUIT. CONCEAL RECEPTACLE BEHIND ACCESSIBLE ENCLOSURE OF THE WATER COOLER. COORDINATE WITH WATER COOLER INSTALLATION INSTRUCTIONS.
 - 7 (NOT USED)
 - 8 INSTALL RECEPTACLE HORIZONTALLY IN COUNTER BACKSPLASH.
 - 9 CONNECT TO THE LOCAL RECEPTACLE CIRCUIT.
 - 10 PROVIDE A COMMON CIRCUIT FROM PANEL MK TO SERVE BC1, PHE1, PHE2, FC1, FC2, FC3.
 - 11 PROVIDE A COMMON CIRCUIT FROM PANEL MK TO SERVE FC4, FC5, FC6, FC9, FC11, FC12.
 - 12 PROVIDE A COMMON CIRCUIT FROM PANEL MK TO SERVE BC2, FC10, FC13, FC14, FC21, FC22, FC23, FC24, FC25.
 - 13 PROVIDE A COMMON CIRCUIT FROM PANEL MK TO SERVE BC3, FC7, FC8, FC15.
 - 14 PROVIDE A COMMON CIRCUIT FROM PANEL MK TO SERVE FC16, FC17, FC18, FC19, FC20.
 - 15 PROVIDE WIRING FROM HP2 THROUGH ALL OF FC2A THROUGH FC2F.
 - 16 PROVIDE WIRING FROM HP3 THROUGH ALL OF FC3A THROUGH FC3H.
 - 17 PROVIDE WIRING FROM HP4 THROUGH ALL OF FC4A THROUGH FC4L.
 - 18 PROVIDE WIRING FROM HP5 THROUGH ALL OF FC5A THROUGH FC5F.

GENERAL NOTES:

- REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING, AS WELL AS ANY NOTES WHICH FOLLOW.
- 1 THE WORK IN THE SOUTH AND EAST FACILITY RESIDENCES IS AFFECTED BY AN ALTERNATE. REFER TO THE BRIEF ALTERNATE DESCRIPTIONS ON DRAWING E1 AS WELL AS DESCRIPTION OF ALTERNATES IN THE DIVISION 1 PORTION OF THE SPECIFICATION.



ANDREA MURRAY, AIA, NCARB, LEED AP
 andrea@vermontintegratedarchitecture.com
 ASHAR NELSON, AIA, LEED AP
 ashar@vermontintegratedarchitecture.com

P.O. Box 862
 Middlebury, VT 05753
 802.989.7249

CIVIL ENGINEER
 Kevin Worden, P.E.
 Engineering Ventures
 kevinw@engineeringventures.com
 802.863.6225

STRUCTURAL ENGINEER
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 Engineering Ventures
 bobn@engineeringventures.com
 802.863.6225

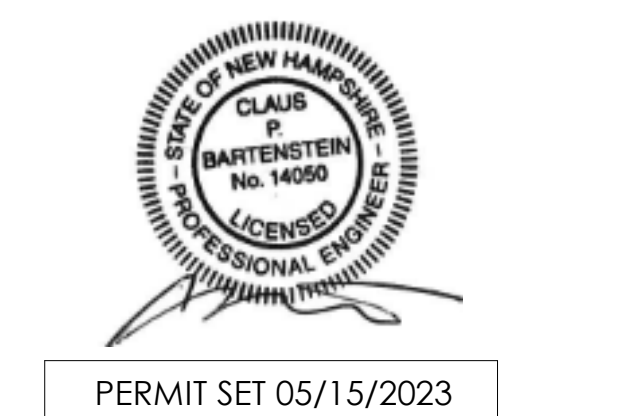
MECH./PLUMBING ENGINEER
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**KILTON
 POWER & SIGNAL
 FIRST FLOOR**

EK9



VERMONT INTEGRATED ARCHITECTURE, PC

ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com

ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
802.989.7249

CIVIL ENGINEER

Kevin Warden, P.E.
Engineering Ventures
kevinw@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E., President
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER

Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvtllc.com
802.855.8091

ELECTRICAL ENGINEER

CLAUS BARTENSTEIN, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.bartenstein@esvtllc.com
802.855.8091

CONSTRUCTION MANAGER

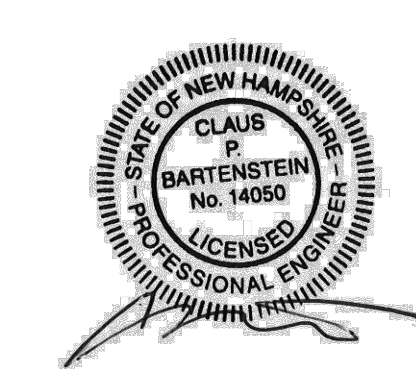
NAME & TITLE
ReArch Company, Inc.
EMAIL HERE
802.863.8727

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KUA
KILTON/WELCH
DORMITORIES

Main Street
Meriden, NH 03770

ELECTRICAL
PANEL
SCHEDULES

EK10

Panel FRKS Single Phase Panel. Includes table with columns for Description, Connected Load (VA) A, B, BKR, Phase A, B, C, and Description. Lists items like Lighting, Spare, RCPT - Electric Range, etc.

Panel PK (Left) Three Phase Panel. Includes table with columns for Description, Connected Load (VA) A, B, C, BKR, Phase A, B, C, and Description. Lists items like LTG - Interior, LTG - Exterior, RCPT - Clothes Washer, etc.

Panel MDPK Three Phase Panel. Includes table with columns for Description, Connected Load (VA) A, B, C, BKR, Phase A, B, C, and Description. Lists items like Prepared Space, Energy/Power Monitoring System, Panel LSW, etc.

Panel FRKE Single Phase Panel. Includes table with columns for Description, Connected Load (VA) A, B, BKR, Phase A, B, C, and Description. Lists items like Lighting, Spare, RCPT - Electric Range, etc.

Panel PK (Right) Three Phase Panel. Includes table with columns for Description, Connected Load (VA) A, B, C, BKR, Phase A, B, C, and Description. Lists items like RCPT - Dorm 101, RCPT - Dorm 102, etc.

Panel MK Three Phase Panel. Includes table with columns for Description, Connected Load (VA) A, B, C, BKR, Phase A, B, C, and Description. Lists items like HP1A - Outdoor Heat Pump Unit, HP1B - Outdoor Heat Pump Unit, etc.

Panel SBK Three Phase Panel. Includes table with columns for Description, Connected Load (VA) A, B, C, BKR, Phase A, B, C, and Description. Lists items like LTG - Basement, LTG - First Floor, LTG - Second Floor, etc.

Panel LSK Three Phase Panel. Includes table with columns for Description, Connected Load (VA) A, B, C, BKR, Phase A, B, C, and Description. Lists items like Fire Alarm Control Panel, Spare, etc.

Panel MK Three Phase Panel. Includes table with columns for Description, Connected Load (VA) A, B, C, BKR, Phase A, B, C, and Description. Lists items like HP1A - Outdoor Heat Pump Unit, HP1B - Outdoor Heat Pump Unit, etc.

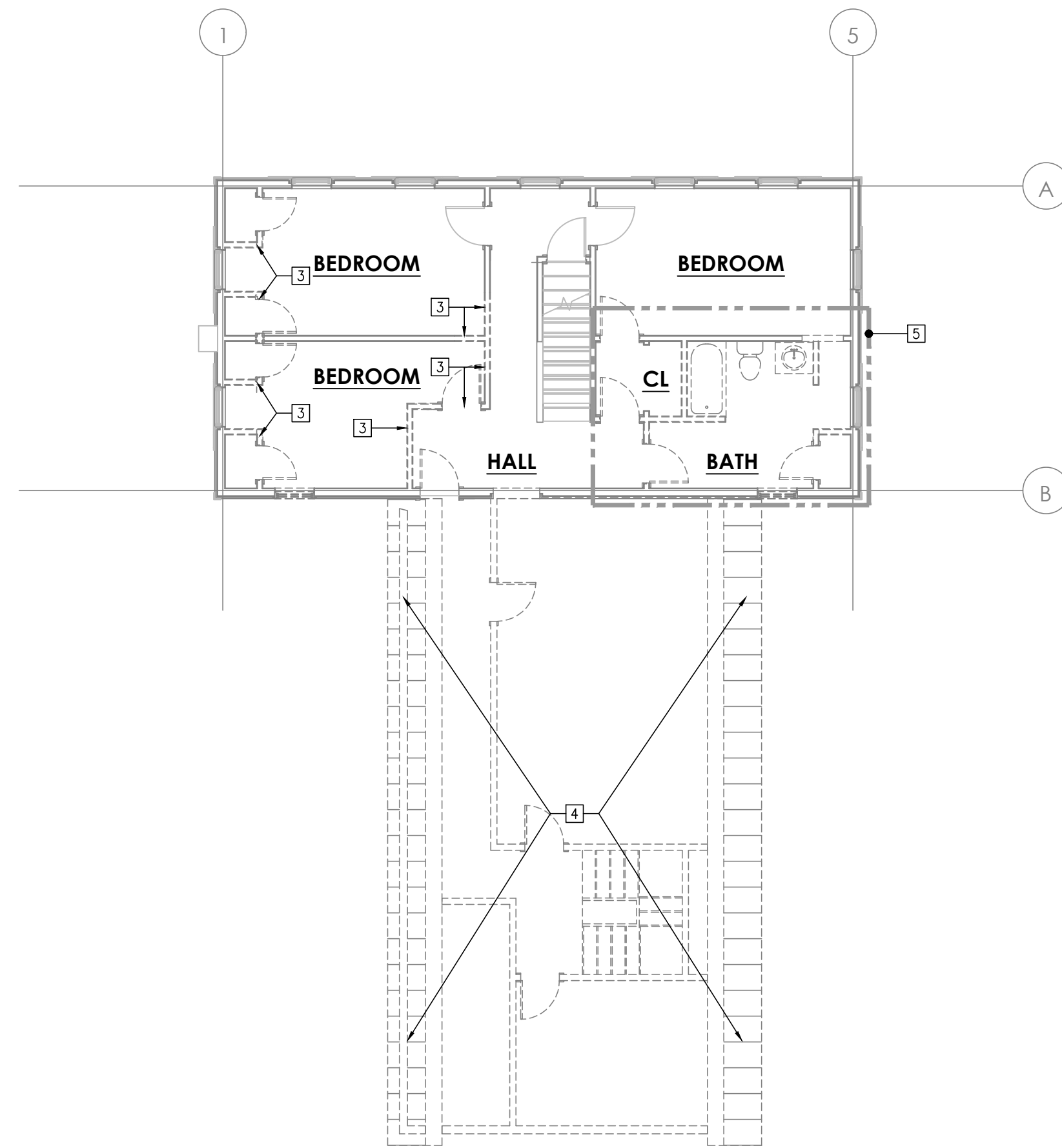
GENERAL NOTES:

REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING AS WELL AS ANY NOTES WHICH FOLLOW.

PANEL SCHEDULE LEGEND:
G = 5MA GFCI GROUND FAULT PROTECTION INTEGRAL TO THE CIRCUIT BREAKER
E = 30MA GFCI EQUIPMENT GROUND FAULT PROTECTION INTEGRAL TO THE CIRCUIT BREAKER
A = ARC FAULT PROTECTION INTEGRAL TO THE CIRCUIT BREAKER
LO = PROVIDE LOCK OPEN (OFF) CLIP FOR THIS CIRCUIT BREAKER
LC = PROVIDE LOCK CLOSED (ON) CLIP FOR THIS CIRCUIT BREAKER

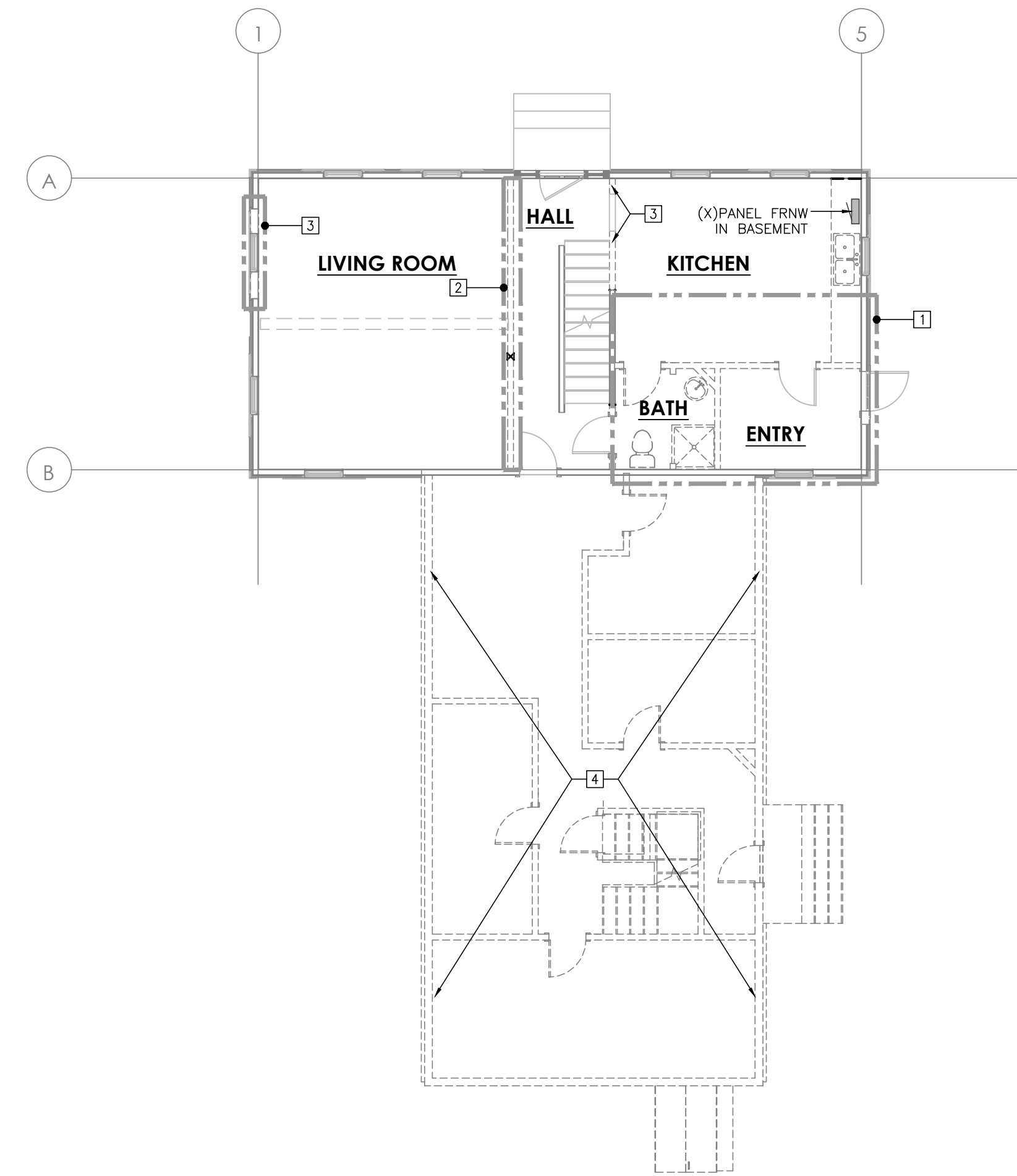
DRAWING NOTES:

- 1 PROVIDE SERIES COORDINATION WITH DOWNSTREAM PANEL/CIRCUIT BREAKERS TO ALLOW DOWNSTREAM EQUIPMENT TO HAVE 10KAIC RATING.
- 2 PANEL BUSSING IS UPSIZED TO ACCOMMODATE FUTURE PV SOLAR INTERCONNECTION TO ALLOW A MAXIMUM OF 144KW-AC TO BE CONNECTED TO THE LOAD SIDE OF THE UTILITY METER.



ELECTRICAL DEMOLITION SECOND FLOOR

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



ELECTRICAL DEMOLITION FIRST FLOOR

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

GENERAL NOTES:

REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING AS WELL AS ANY NOTES WHICH FOLLOW.

REFER TO GENERAL DEMOLITION NOTES ON DRAWING E2 WHICH APPLY TO THIS DRAWING AS WELL AS ANY NOTES WHICH FOLLOW.

DEMOLITION DRAWING NOTES:

- 1 DISCONNECT AND REMOVE ALL ELECTRICAL FROM THIS AREA TO ALLOW FOR CONSTRUCTION OF NEW KITCHEN, BATH AND LAUNDRY AS WELL AS ENTRY ADDITION TO THE EAST. REMOVE ALL ASSOCIATED WIRING BACK TO SOURCE OR LAST LIVE OUTLET TO REMAIN.
- 2 DISCONNECT AND REMOVE ALL ELECTRICAL FROM THIS WALL TO ALLOW FOR ITS DEMOLITION. REMOVE ALL ASSOCIATED WIRING BACK TO SOURCE OR LAST LIVE OUTLET TO REMAIN.
- 3 DISCONNECT AND REMOVE ALL ELECTRICAL FROM THIS PORTION OF WALL TO ALLOW FOR ITS DEMOLITION. RETAIN EXISTING RECEPTACLE CIRCUIT WIRING FOR REUSE, AS NECESSARY.
- 4 DISCONNECT AND REMOVE ALL ELECTRICAL FROM THIS PORTION OF THE BUILDING TO ALLOW FOR ITS DEMOLITION. REMOVE ALL ASSOCIATED WIRING BACK TO SOURCE OR LAST LIVE OUTLET TO REMAIN.
- 5 DISCONNECT AND REMOVE ALL ELECTRICAL FROM THIS AREA TO ALLOW FOR CONSTRUCTION OF TWO NEW BATHS AND CLOSET. REMOVE ALL ASSOCIATED WIRING BACK TO SOURCE OR LAST LIVE OUTLET TO REMAIN.



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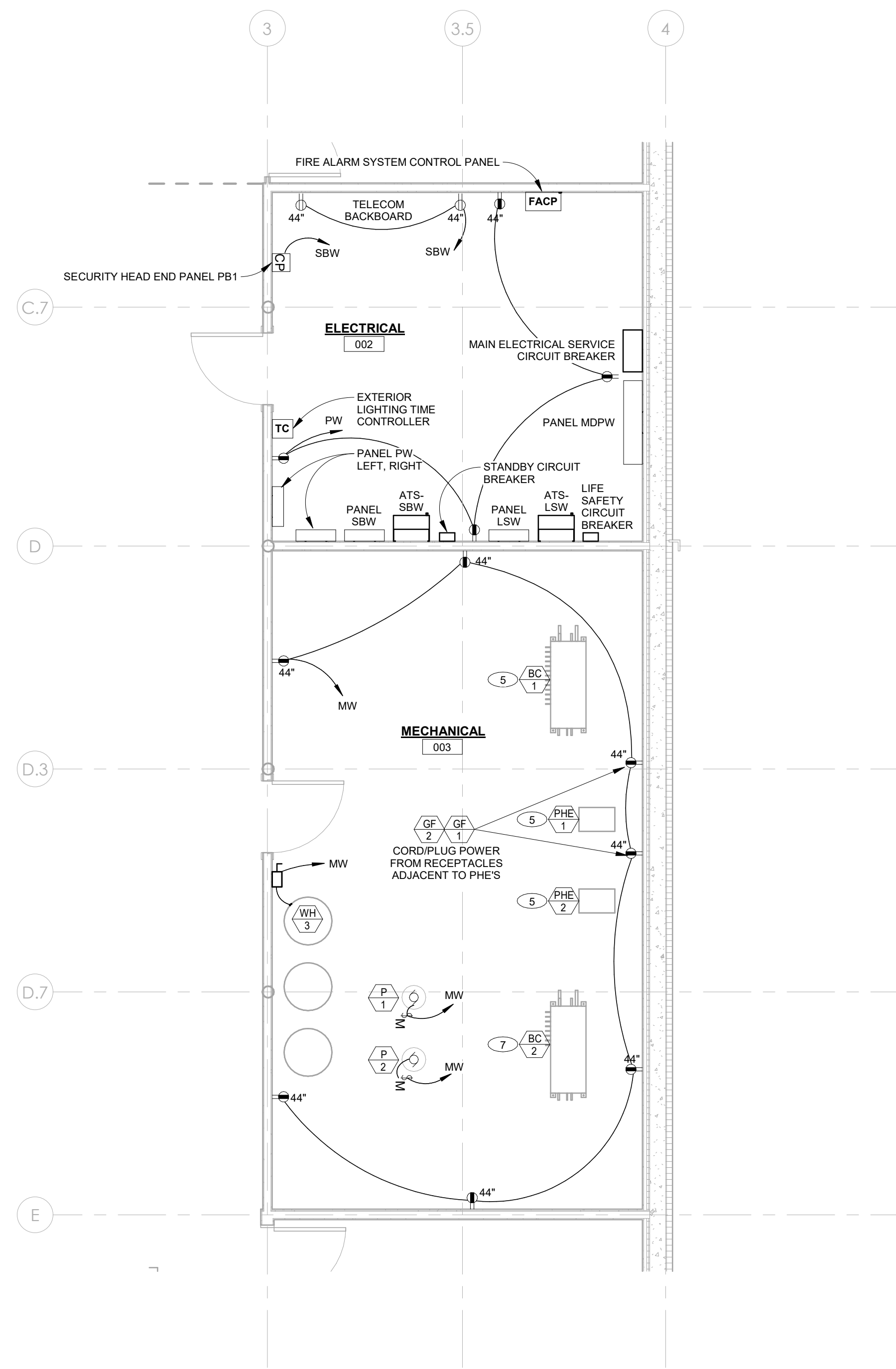
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**KUA
KILTON/WELCH
DORMITORIES**

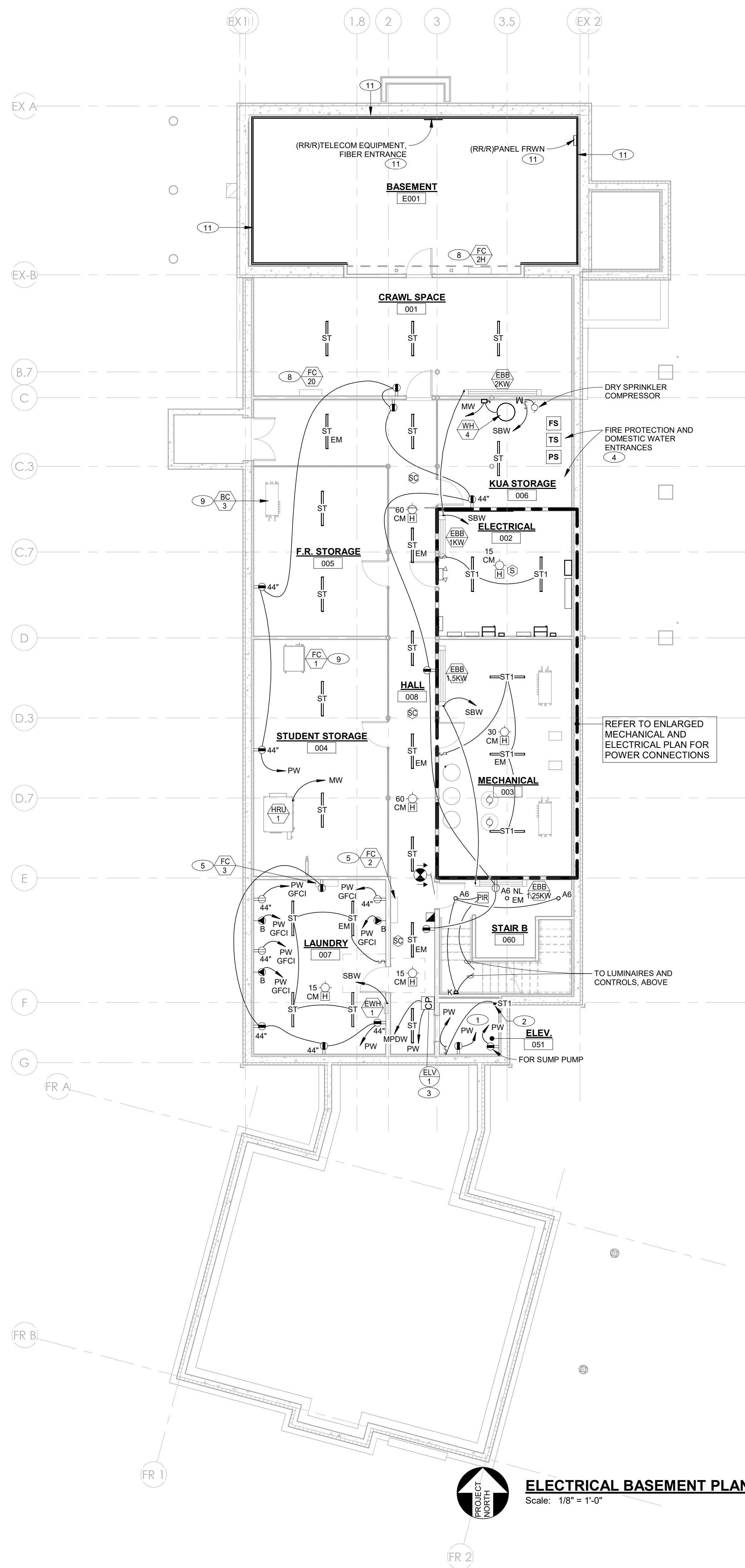
Main Street
Meriden, NH 03770

**ELECTRICAL
DEMOLITION**

EW11



ENLARGED MECHANICAL ROOM
Scale: 1/4" = 1'-0"



ELECTRICAL BASEMENT PLAN
Scale: 1/8" = 1'-0"

GENERAL NOTES:

REFER TO DRAWING E1 FOR GENERAL NOTES WHICH APPLY TO THIS DRAWING. AS WELL AS ANY NOTES WHICH FOLLOW.

PROVIDE LIGHTING CIRCUITS AS FOLLOWS:

- LIFE SAFETY: PROVIDE A COMMON CIRCUIT IN PANEL LSW TO SERVE ALL LUMINAIRES AT BASEMENT, FIRST AND SECOND FLOORS AND EXTERIOR IDENTIFIED "EM" AND ALL EXIT LUMINAIRES.
- STAND-BY: PROVIDE A COMMON CIRCUIT IN PANEL SBW TO SERVE ALL LUMINAIRES IN:
 - 002 ELECTRICAL
 - 008 HALL
 - 060 STAIR B
- PROVIDE A COMMON CIRCUIT IN PANEL PW TO SERVE ALL LUMINAIRES IN:
 - 001 CRAWL SPACE
 - 003 MECHANICAL
 - 004 STUDENT STORAGE
 - 005 F.R. STORAGE
 - 006 KUA STORAGE
 - 007 LAUNDRY

DRAWING NOTES:

THESE DRAWING NOTES APPLY TO THIS DRAWING. ONLY.

- INSTALL SERVICE RECEPTACLE, SWITCH, LIGHT AND SUMP RECEPTACLE. COORDINATE LOCATIONS WITH APPROVED ELEVATOR SHOP DRAWING AND ELEVATOR INSTALLER PRIOR TO ROUGH-IN.
- LOCATE A TYPE ST LUMINAIRE MOUNTED VERTICALLY IN CORNER OF SHAFT.
- ELEVATOR CONTROLLER IS INTEGRAL TO THE ELEVATOR FACING INTO THE CORRIDOR WITH DISCONNECTS INTEGRAL TO THE CONTROLLER. PROVIDE POWER CONNECTIONS FOR ELEVATOR POWER, CAB LIGHTING AND A CATS POTS LINE FOR CAB TELEPHONE. PROVIDE A FIRE ALARM SYSTEM RELAY MODULE CONNECTION TO ELEVATOR CONTROLLER FOR ELEVATOR RECALL. COORDINATE FINAL LOCATIONS WITH APPROVED ELEVATOR SHOP DRAWING AND ELEVATOR INSTALLER.
- PROVIDE MONITORING OF SPRINKLER FLOW, TAMPER AND PRESSURE SWITCHES BY THE FIRE ALARM SYSTEM. COORDINATE QUANTITY OF FIRE PROTECTION DEVICES TO BE MONITORED WITH THE APPROVED FIRE PROTECTION SHOP DRAWING AND SYSTEM INSTALLER.
- PROVIDE A COMMON CIRCUIT FROM PANEL MW TO SERVE BC1, PHE1, PHE2, FC2, FC7, FC8.
- PROVIDE A COMMON CIRCUIT FROM PANEL MW TO SERVE FC9, FC10, FC11, FC12, FC13.
- PROVIDE A COMMON CIRCUIT FROM PANEL MW TO SERVE BC2, FC13 THROUGH FC16.
- PROVIDE A COMMON CIRCUIT FROM PANEL MW TO SERVE FC17 THROUGH FC22.
- PROVIDE A COMMON CIRCUIT FROM PANEL MW TO SERVE BC3, FC1, FC4, FC5, FC6.
- PROVIDE WIRING FROM HP2 THROUGH ALL OF FC2A THROUGH FC2H.
- THE INTERIOR OF THE EXTERIOR WALLS OF THE EXISTING FACULTY RESIDENCE BASEMENT WILL BE INSULATED AND SEALED. THIS CONTRACTOR SHALL REWORK EXISTING DEVICES AND EQUIPMENT ON THESE WALLS TO ACCOMMODATE THIS ENVELOP WORK, REINSTALLING DEVICES IN APPROXIMATELY THE SAME LOCATION IN THE NEW WALL SURFACES.
 - ALL RECEPTACLE DEVICES SHALL BE REPLACED WITH NEW TAMPER-RESISTANT DEVICES.
 - PANELBOARD FRWN WILL HAVE TO BE REMOVED FROM THE WALL AND THEN REINSTALLED ON INTERIOR OF PADDED WALL. PROVIDE PLYWOOD BACKBOARD SUPPORT AS NECESSARY.
 - TELECOM BACKBOARD WILL HAVE TO BE REMOVED FROM THE WALL AND REINSTALLED ON INTERIOR OF PADDED WALL. PROVIDE PLYWOOD BACKBOARD SUPPORT AS NECESSARY.



ANDREA MURRAY, AIA, NCARB, LEED AP
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ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
802.989.7249

CIVIL ENGINEER

Kevin Worden, P.E.
Engineering Ventures
kworden@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E. President
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER

Daniel Dupros, P.E.
Engineering Services of Vermont, LLC
daniel.dupros@esvllc.com
802.885.8091

ELECTRICAL ENGINEER

Claus Bartenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.bartenstein@esvllc.com
802.885.8091

CONSTRUCTION MANAGER

NAME & TITLE
ReArch Company, Inc.
EMAIL HERE
802.863.6727

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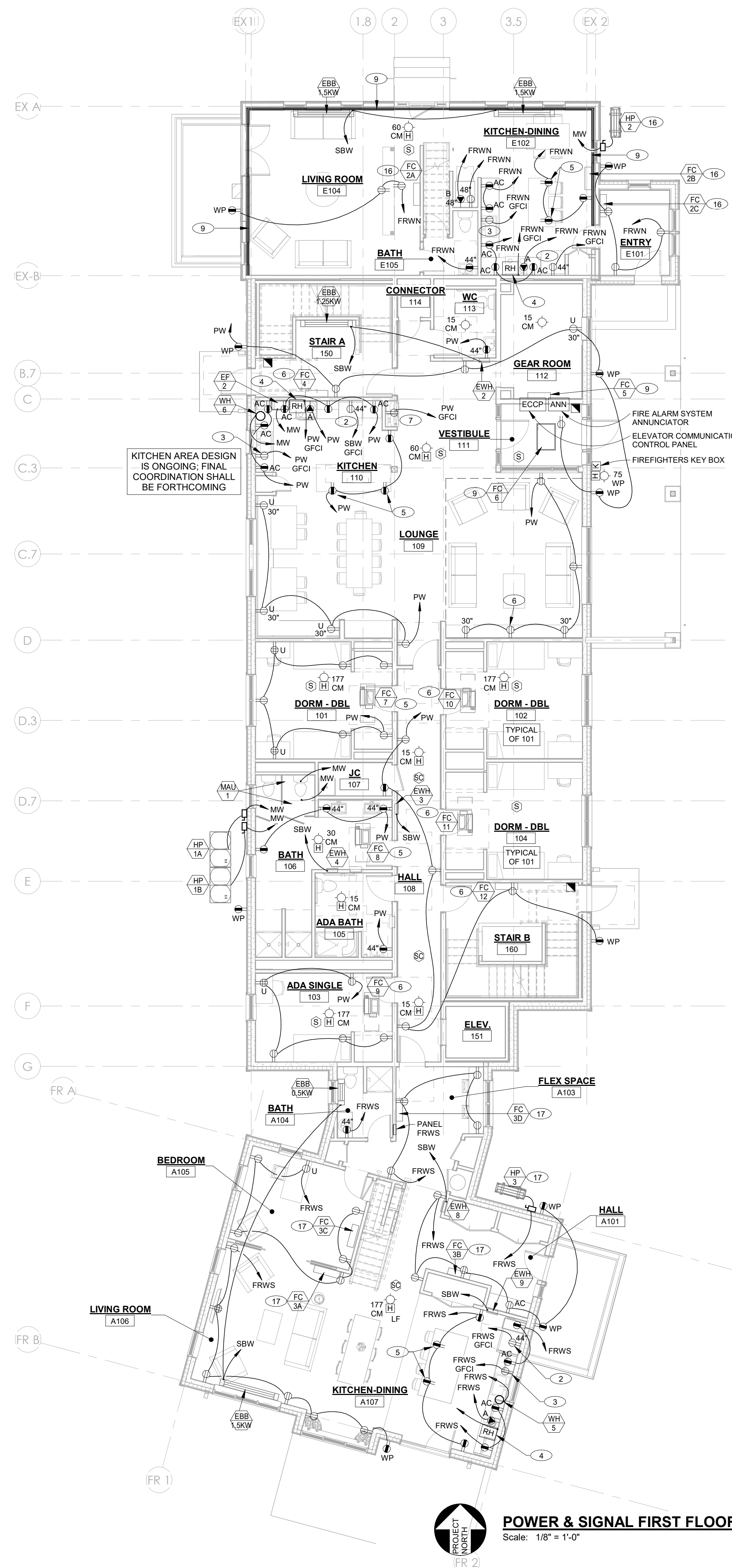
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**KUA
KILTON/WELCH
DORMITORIES**

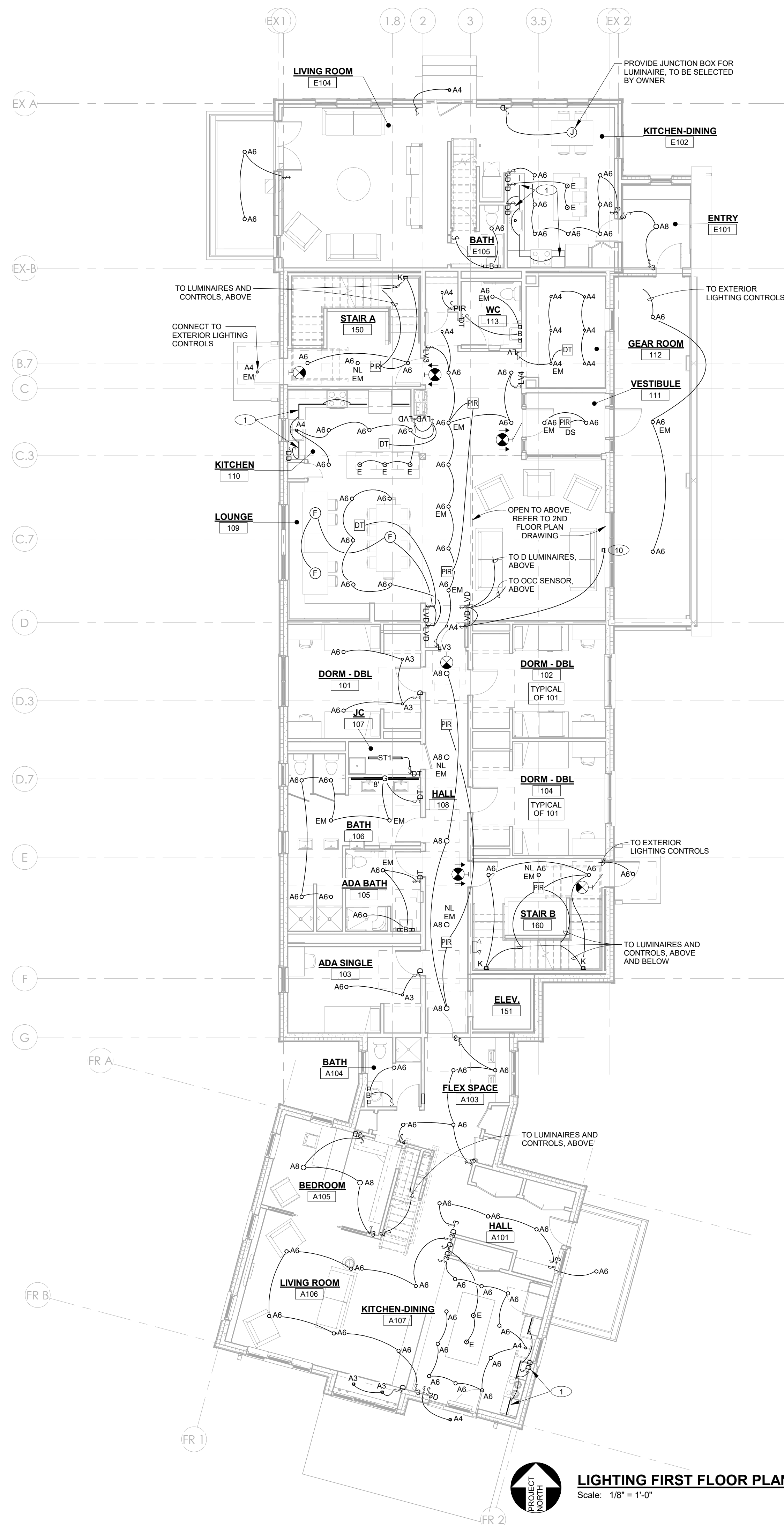
Main Street
Meriden NH, 03770

**WELCH
ELECTRICAL
BASEMENT**

EW12



POWER & SIGNAL FIRST FLOOR PLAN
Scale: 1/8" = 1'-0"



LIGHTING FIRST FLOOR PLAN
Scale: 1/8" = 1'-0"

GENERAL NOTES:

- REFER TO DRAWING E1 FOR GENERAL NOTES WHICH APPLY TO THIS DRAWING. AS WELL AS ANY NOTES WHICH FOLLOW.
- PROVIDE LIGHTING CIRCUITS AS FOLLOWS:
- LIFE SAFETY: PROVIDE A COMMON CIRCUIT IN PANEL LSW TO SERVE ALL LUMINAIRES AT BASEMENT, FIRST AND SECOND FLOORS AND EXTERIOR IDENTIFIED "EM" AND ALL EXIT LUMINAIRES.
 - STAND-BY: PROVIDE A COMMON CIRCUIT IN PANEL SBW TO SERVE ALL LUMINAIRES IN:
 - A. 105 BATH
 - B. 106 ADA BATH
 - C. 108 HALL
 - D. 109 LOUNGE
 - E. 111 VESTIBULE
 - F. 113 WATER CLOSET
 - G. 150 STAIR A
 - H. 160 STAIR B
 - PROVIDE A COMMON CIRCUIT IN PANEL PW TO SERVE ALL LUMINAIRES IN THE BALANCE OF THE FIRST FLOOR DORMITORY.
 - PROVIDE A COMMON CIRCUIT IN PANEL FRWS TO SERVE ALL LUMINAIRES IN THE FACULTY RESIDENCE "A" (SOUTH).
 - REWORK AND EXTEND EXISTING LIGHTING CIRCUITS IN THE EXISTING FACULTY RESIDENCE (NORTH) TO NEW LUMINAIRES VIA CONTROLS.

DRAWING NOTES:

- THESE DRAWING NOTES APPLY TO THIS DRAWING ONLY.
- MOUNT TYPE UC UNDERCABINET LED TAPE LUMINAIRES TO UNDERSIDE OF CABINETRY - 1" BACK FROM THE FRONT UNDERSIDE FRAME. CONCEALED BY BOTTOM LIP OF THE CABINET. PROVIDE LENGTHS AS NECESSARY. PROVIDE DIMMER SWITCH INCORPORATING BOTH ON/OFF/DIMMING CONTROL AND DRIVER. CONCEAL ALL CABLING FROM VIEW SECURING ATTACHING AND RUN AT UNDERSIDE OF CABINETRY. CONNECT TO UNSWITCHED PORTION OF GFCI PROTECTED CIRCUIT SERVING THE RANGE HOOD.
 - DEDICATED REFRIGERATOR CIRCUIT ON GFCI PROTECTED CIRCUIT BREAKER.
 - DEDICATED DISHWASHER CIRCUIT ON GFCI PROTECTED CIRCUIT BREAKER. RECEPTACLE SHALL BE ACCESSIBLE THROUGH THE CABINETRY BELOW THE SINK.
 - KITCHEN HOOD POWER CONNECTION ON GFCI PROTECTED CIRCUIT. SAME CIRCUIT SHALL SERVE ANY UNDERCABINET LIGHTING.
 - LOCATE RECEPTACLE IN ISLAND CASEWORK, HORIZONTAL, 4" BELOW UNDERSIDE OF COUNTER, AS PER NEC REQUIREMENTS. COORDINATE LOCATIONS OF DEVICES AND ROUTING OF WIRING CONCEALED WITHIN CABINETRY WITH CASEWORK INSTALLER.
 - WALL MOUNTED TELEVISION OR MONITOR LOCATION. PROVIDE A FLUSH DEVICE STYLE BOX FOR POWER AND CABLING IN A COMMON, RECESSED MANNER. SEE LOW VOLTAGE DRAWINGS FOR COMMUNICATION DEVICES. BASIS OF DESIGN IS ARLINGTON TV/RS13 STEEL MEDIA BOX. MOUNT 48" AFF. UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECTS ELEVATION DRAWINGS. SUBMIT FLUSH MOUNTED BOX INFORMATION FOR APPROVAL.
 - RECEPTACLE FOR WATER COOLER ON A DEDICATED GFCI PROTECTED CIRCUIT. CONCEAL RECEPTACLE BEHIND ACCESSIBLE ENCLOSURE OF THE WATER COOLER. COORDINATE WITH WATER COOLER INSTALLATION INSTRUCTIONS.
 - FLOOR BOX WITH DUPLEX RECEPTACLE ON GFCI PROTECTED CIRCUIT. RECESSED ACTIVATION TYPE BOX FOR CONCRETE FLOOR. CAST COVER WITH CABLE GROMMETS AND CARPET INSERT. BASIS OF DESIGN IS LEGRAND RFBA SERIES. COVER FINISH AS SELECTED BY ARCHITECT.
 - THE INTERIOR OF THE EXTERIOR WALLS OF THE EXISTING FACULTY RESIDENCE WILL BE REMOVED AND ENVELOP OF THE BUILDING SEALED AND INSULATED AND WALLS PADDED INWARD. THIS CONTRACTOR SHALL REWORK EXISTING RECEPTACLE AND TELECOM DEVICES IN THESE WALLS TO ACCOMMODATE THIS ENVELOP WORK. REINSTALLING DEVICES IN APPROXIMATELY THE SAME LOCATION IN THE NEW WALL SURFACES.
 - ALL RECEPTACLE DEVICES SHALL BE REPLACED WITH NEW, TAMPER-RESISTANT DEVICES.
 - THE BUILDING WAS OCCUPIED WITH FURNISHINGS AT THE TIME FIELD WORK WAS PERFORMED, SO THERE IS NOT AN EXACT NUMBER OF DEVICES. ASSUME 10 DEVICES ON THE FIRST FLOOR AND 10 DEVICES ON THE SECOND FLOOR AND PROVIDE A UNIT PRICE FOR ANY ADDITIONAL BEYOND THESE 20 DEVICES.
 - CENTER LUMINAIRE IN-BETWEEN THE UPPER AND LOWER WINDOWS.
 - PROVIDE A COMMON CIRCUIT FROM PANEL MW TO SERVE BC1, PHE1, PHE2, FC2, FC7, FC8.
 - PROVIDE A COMMON CIRCUIT FROM PANEL MW TO SERVE FC9, FC10, FC11, FC12, FC13
 - PROVIDE A COMMON CIRCUIT FROM PANEL MW TO SERVE BC2, FC13 THROUGH FC16.
 - PROVIDE A COMMON CIRCUIT FROM PANEL MW TO SERVE FC17 THROUGH FC22.
 - PROVIDE A COMMON CIRCUIT FROM PANEL MW TO SERVE BC3, FC1, FC4, FC5, FC6.
 - PROVIDE WIRING FROM HP2 THROUGH ALL OF FC2A THROUGH FC2H.
 - PROVIDE WIRING FROM HP3 THROUGH ALL OF FC3A THROUGH FC3G.



ANDREA MURRAY, AIA, NCARB, LEED AP
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ashar@vermontintegratedarchitecture.com

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Middlebury, VT 05753
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ReArch Company, Inc.
EMAIL HERE
802.863.8727

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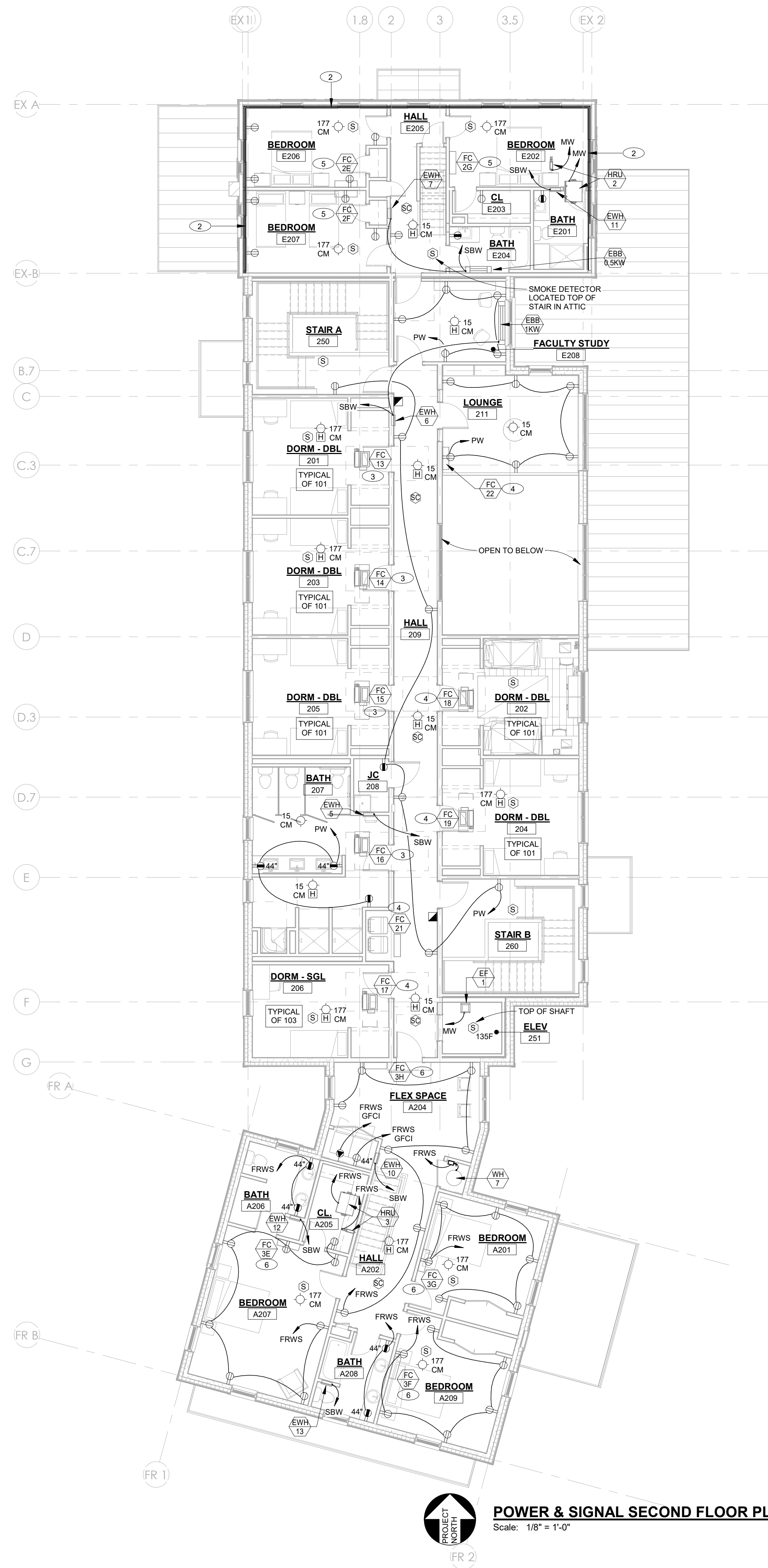
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**KUA
KILTON/WELCH
DORMITORIES**

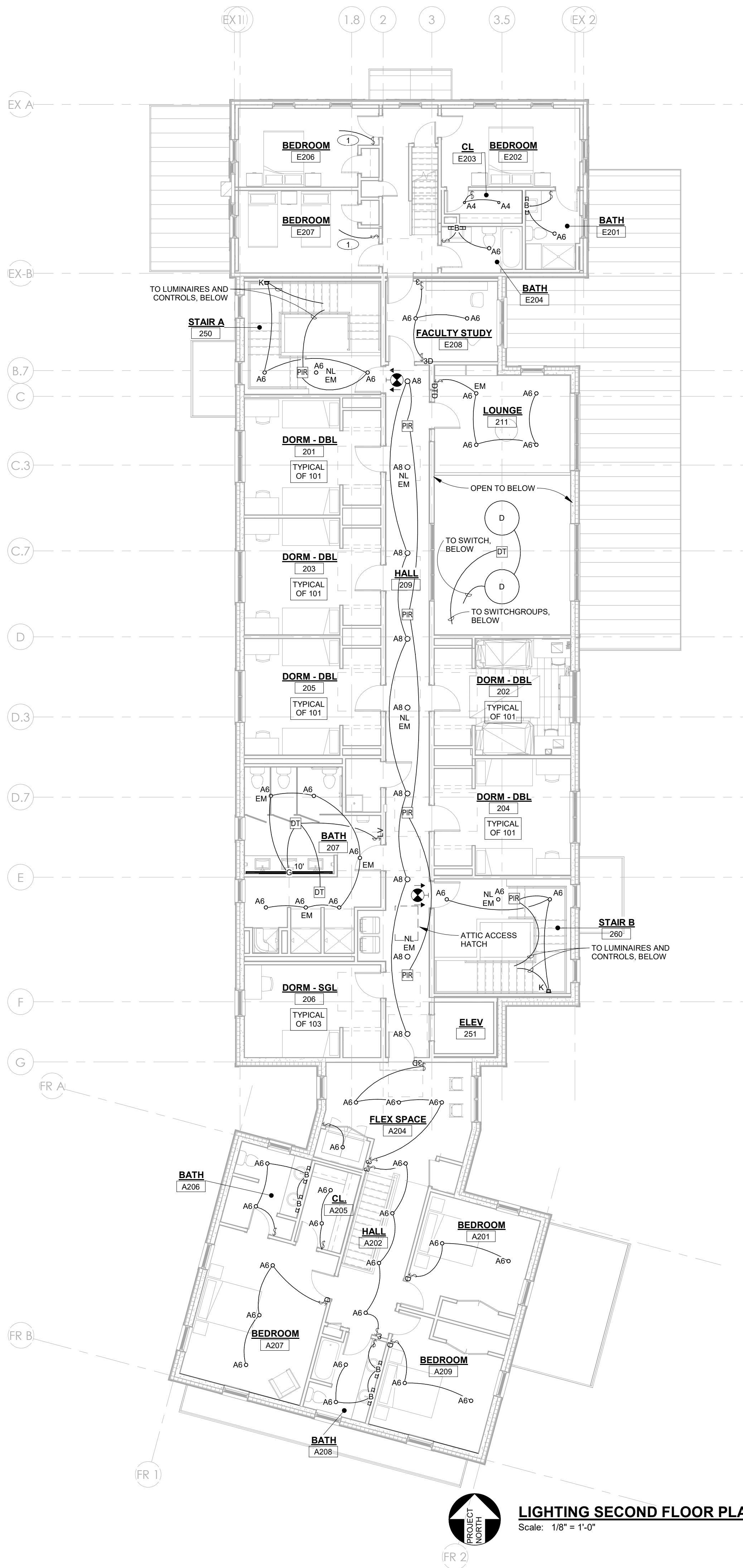
Main Street
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**WELCH
ELECTRICAL
FIRST FLOOR**

EW13



POWER & SIGNAL SECOND FLOOR PLAN
Scale: 1/8" = 1'-0"



LIGHTING SECOND FLOOR PLAN
Scale: 1/8" = 1'-0"

GENERAL NOTES:

REFER TO DRAWING E1 FOR GENERAL NOTES WHICH APPLY TO THIS DRAWING, AS WELL AS ANY NOTES WHICH FOLLOW.

PROVIDE LIGHTING CIRCUITS AS FOLLOWS:

1. LIFE SAFETY: PROVIDE A COMMON CIRCUIT IN PANEL LSW TO SERVE ALL LUMINAIRES AT BASEMENT, FIRST AND SECOND FLOORS AND EXTERIOR IDENTIFIED "EM" AND ALL EXIT LUMINAIRES.
2. STAND-BY: PROVIDE A COMMON CIRCUIT IN PANEL SBW TO SERVE ALL LUMINAIRES IN:
A. 208 BATH
B. 209 HALL
C. 250 STAIR A
D. 260 STAIR B
3. PROVIDE A COMMON CIRCUIT IN PANEL PW TO SERVE ALL LUMINAIRES IN THE BALANCE OF THE SECOND FLOOR DORMITORY.
4. PROVIDE A COMMON CIRCUIT IN PANEL FRWS TO SERVE ALL LUMINAIRES IN THE FACULTY RESIDENCE "A" (SOUTH).
5. REWORK AND EXTEND EXISTING LIGHTING CIRCUITS IN THE EXISTING FACULTY RESIDENCE (NORTH) TO NEW LUMINAIRES VIA CONTROLS.

DRAWING NOTES:

THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.

1. PROVIDE NEW, REPLACEMENT SWITCH IN THIS ROOM. REWORK AND EXTEND EXISTING SWITCH LEG WIRING TO NEW SWITCH. SWITCH AND COVERPLATE TO MATCH FINISH OF EXISTING.
2. THE INTERIOR OF THE EXTERIOR WALLS OF THE EXISTING FACULTY RESIDENCE WILL BE REMOVED AND ENVELOP OF THE BUILDING SEALED AND INSULATED AND WALLS PADDED INWARD. THIS CONTRACTOR SHALL REWORK EXISTING RECEPTACLE AND TELECOM DEVICES IN THESE WALLS TO ACCOMMODATE THIS ENVELOP WORK, REINSTALLING DEVICES IN APPROXIMATELY THE SAME LOCATION IN THE NEW WALL SURFACES.
 - ALL RECEPTACLE DEVICES SHALL BE REPLACED WITH NEW, TAMPER-RESISTANT DEVICES.
 - THE BUILDING WAS OCCUPIED WITH FURNISHINGS AT THE TIME FIELD WORK WAS PERFORMED, SO THERE IS NOT AN EXACT NUMBER OF DEVICES. ASSUME 10 DEVICES ON THE FIRST FLOOR AND 10 DEVICES ON THE SECOND FLOOR AND PROVIDE A UNIT PRICE FOR ANY ADDITIONAL BEYOND THESE 20 DEVICES.
3. PROVIDE A COMMON CIRCUIT FROM PANEL MW TO SERVE BC2, FC13 THROUGH FC16.
4. PROVIDE A COMMON CIRCUIT FROM PANEL MW TO SERVE FC17 THROUGH FC22.
5. PROVIDE WIRING FROM HP2 THROUGH ALL OF FC2A THROUGH FC2H.
6. PROVIDE WIRING FROM HP3 THROUGH ALL OF FC3A THROUGH FC3G.



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KILTON/WELCH
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**WELCH
ELECTRICAL
SECOND FLOOR**

EW14



VERMONT INTEGRATED ARCHITECTURE, PC

ANDREA MURRAY, AIA, NCARB, LEED AP
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ELECTRICAL
PANEL
SCHEDULES

EW15

Panel FRWS Single Phase Panel table with columns for Description, Connected Load (VA), Phase (A, B, C), and Description. Includes items like Lighting, Spare, RCPT - Electric Range, Dishwasher, etc.

Panel PW (Left) Three Phase Panel table with columns for Description, Connected Load (VA), Phase (A, B, C), and Description. Includes items like LTG - Basement, LTG - First Floor, etc.

Panel MDPW Three Phase Panel table with columns for Description, Connected Load (VA), Phase (A, B, C), and Description. Includes items like Prepared Space, Energy/Power Monitoring System, etc.

Panel PW (Right) Three Phase Panel table with columns for Description, Connected Load (VA), Phase (A, B, C), and Description. Includes items like RCPT - Dorm 101, RCPT - Dorm 102, etc.

Panel MW Three Phase Panel table with columns for Description, Connected Load (VA), Phase (A, B, C), and Description. Includes items like HP1A - Outdoor Heat Pump Unit, HP1B - Outdoor Heat Pump Unit, etc.

Panel SBW Three Phase Panel table with columns for Description, Connected Load (VA), Phase (A, B, C), and Description. Includes items like LTG - Stand-by, EBB - Electric Baseboard Dormitory Basement, etc.

Panel LSW Three Phase Panel table with columns for Description, Connected Load (VA), Phase (A, B, C), and Description. Includes items like Fire Alarm Control Panel, Spare, etc.

GENERAL NOTES:

REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING AS WELL AS ANY NOTES WHICH FOLLOW.

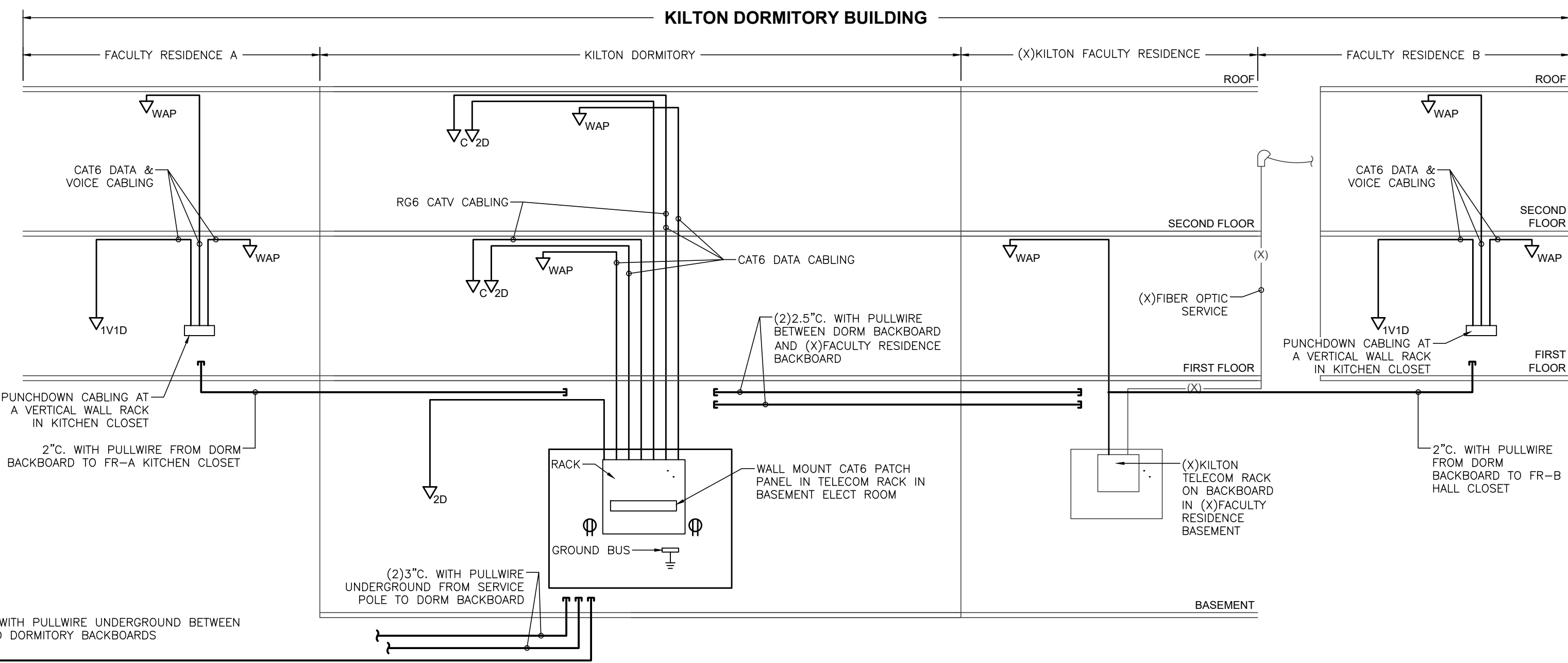
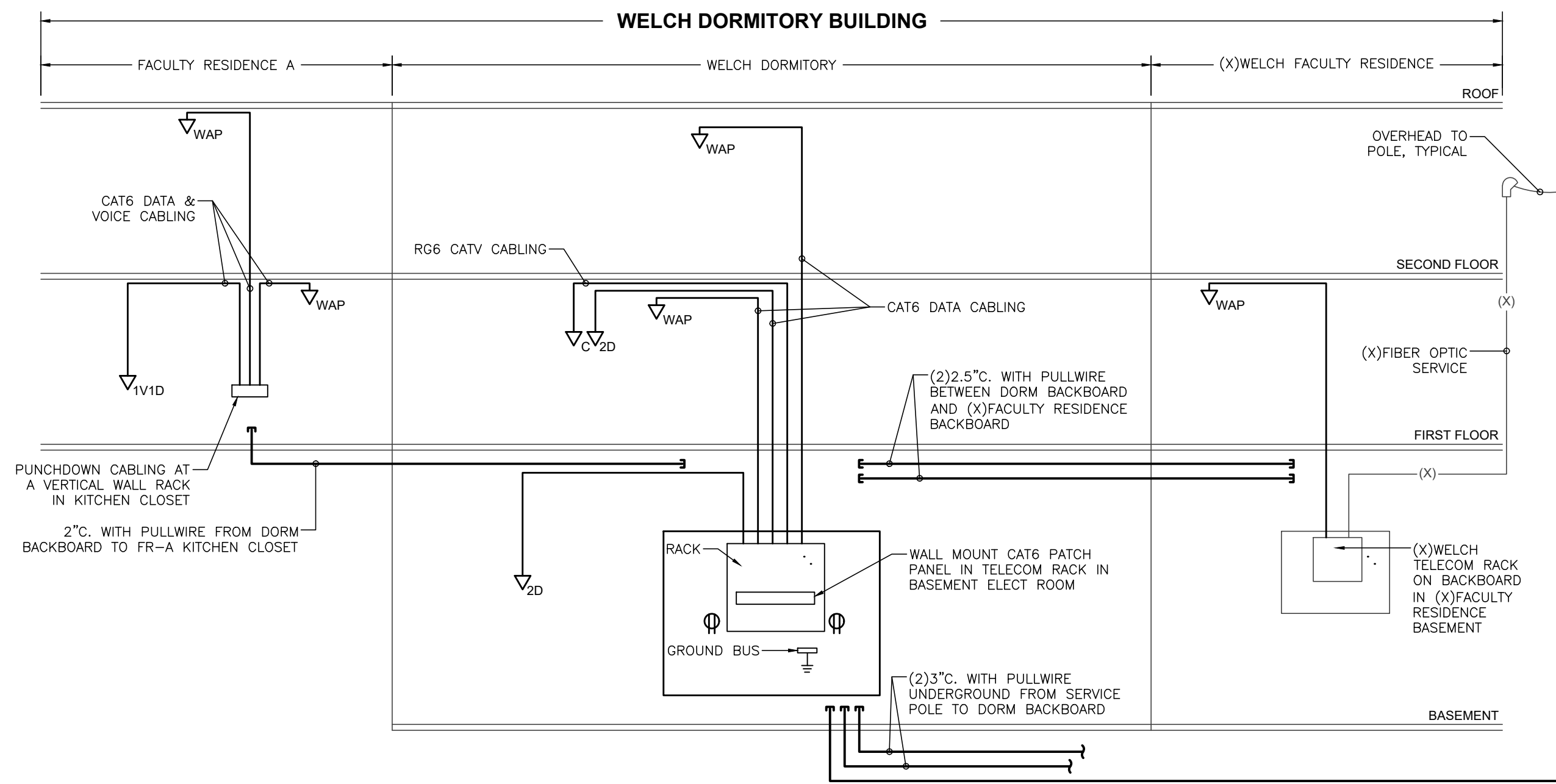
PANEL SCHEDULE LEGEND:
G = 5MA GFCl GROUND FAULT PROTECTION INTEGRAL TO THE CIRCUIT BREAKER
E = 30MA GFCl EQUIPMENT GROUND FAULT PROTECTION INTEGRAL TO THE CIRCUIT BREAKER
A = ARC FAULT PROTECTION INTEGRAL TO THE CIRCUIT BREAKER
LO = PROVIDE LOCK OPEN (OFF) CLIP FOR THIS CIRCUIT BREAKER
LC = PROVIDE LOCK CLOSED (ON) CLIP FOR THIS CIRCUIT BREAKER

DRAWING NOTES:

THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.

1 PROVIDE SERIES COORDINATION WITH DOWNSTREAM PANEL/CIRCUIT BREAKERS TO ALLOW DOWNSTREAM EQUIPMENT TO HAVE 10KAIC RATING.

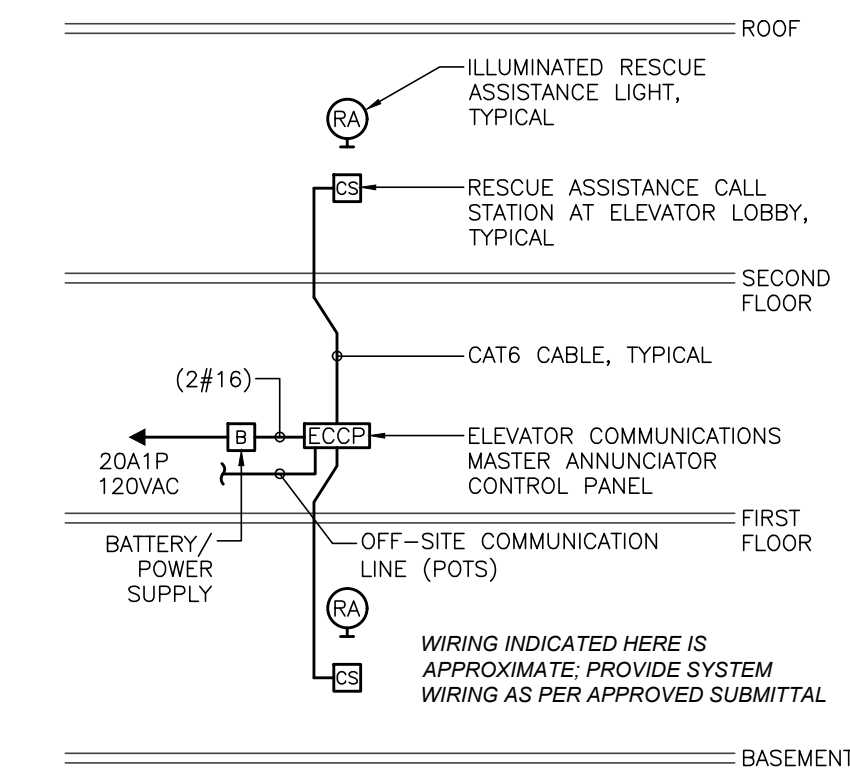
2 PANEL BUSSING IS UPSIZED TO ACCOMMODATE FUTURE PV SOLAR INTERCONNECTION TO ALLOW A MAXIMUM OF 144KW-AC TO BE CONNECTED TO THE LOAD SIDE OF THE UTILITY METER.



TELECOMMUNICATIONS RISER DIAGRAM
NOT TO SCALE

TELECOMMUNICATIONS SYSTEM NOTES:

- PROVIDE A COMPLETE SYSTEM OF CABLING FROM THE SWITCHES IN THE WALL RACKS IN THE ELECT ROOM TO WALL DEVICES. **ALL CABLING SYSTEMS SHALL BE PROVIDED COMPLETE FROM THE PATCH PANELS THROUGH TO WALL JACKS LOCATIONS TO INCLUDE LABELING AND TESTING.**
 - THIS CONTRACTOR SHALL PROVIDE RACKS, POWER SUPPLIES, PATCH PANELS, CABLING AND WALL JACKS AS PER SPECIFICATION.
 - COORDINATE WITH OWNER'S INFORMATION TECHNOLOGY PERSONNEL AND THEIR COMMUNICATIONS UTILITY SERVICE PROVIDERS AS THEY INSTALL THEIR SERVICE ENTRANCE CABLING TO THE BUILDING AND MAKE CONNECTIONS TO BUILDING SYSTEMS TO ENSURE THAT THERE IS NO GAPS IN RESPONSIBILITIES, SUCH THAT WHEN THE BUILDING IS COMPLETE, SYSTEMS ARE COMPLETE AND OPERATIONAL.
 - THIS CONTRACTOR SHALL PROVIDE (FURNISH AND INSTALL) ALL PATHWAYS (CONDUIT, SLEEVES, J-HOOKS, BOXES) AS SPECIFIED.
 - UTILIZE J-HOOKS IN THE CEILING FOR ROUTING CABLING; UTILIZE VELCRO STRAPS TO SECURE CABLING.
- PROVIDE CONDUITS WITH PULLWIRE FOR TELECOM SERVICES AND FOR OWNER CABLING BETWEEN BUILDINGS, AS INDICATED.
 - ALL CONDUITS SHALL HAVE PULLWIRE.
 - CONDUITS STUBBED UP THROUGH FLOOR SHALL TERMINATE ~4 TO 6" ABOVE FINISHED FLOOR. ALL CONDUITS STUBBED UP FROM BELOW GRADE, BOTH THOSE UTILIZED AND WITH PULLWIRE FOR FUTURE, SHALL BE SEALED WITH WATER TIGHT, REMOVABLE SEALANT UPON COMPLETION OF PROJECT.
 - PROVIDE BUSHING ON THE OPEN ENDS OF ALL CONDUITS.
- PROVIDE CABLING AS FOLLOWS:
 - CATV JACK SHALL HAVE (1) RG6 CABLE, BLACK
 - VOICE (TELEPHONE) JACK SHALL HAVE (1) CAT6 CABLE (BLUE)
 - DATA (ETHERNET/INTERET) JACK SHALL HAVE CAT6 CABLES, QUANTITY AS INDICATED (BLUE)
 - WAP (WIRELESS ACCESS POINT) JACK SHALL HAVE (2) CAT6 CABLES (BLUE)
- WALL RACK SHALL BE MOUNTED ON A 3/4" FIRE CODE PLYWOOD BACKBOARD, 8" WIDE, MOUNTED WITH 8" DIMENSION HORIZONTAL WITH TOP AT 6" AFF, PAINTED LIGHT GRAY.



ELEVATOR COMMUNICATIONS SYSTEM WIRING DIAGRAM
NOT TO SCALE

- NOTES:**
- BASIS OF DESIGN IS THE CORNELL COMMUNICATIONS 4800 SERIES
 - CORNELL A-4800IP MASTER UNIT
 - CORNELL A-4800IP-MB UNINTERRUPTIBLE POWER SUPPLY
 - CORNELL A-4800IPB BASE STATION
 - CORNELL A-4800VIP FLUSH MOUNT INDOOR CALL STATION
 - CORNELL SN-P48SL SELF ADHESIVE SIGN
 - CORNELL SN-LM42S ILLUMINATED SIGN (SINGLE SIGN)
 - CORNELL SN-LM42D ILLUMINATED SIGN (DOUBLE SIGN)
 - PROVIDE 20A 120VAC CIRCUIT FROM HOUSE PANEL PSB WITH LOCK-ON CLIP. (2#12, 1#12G)
 - PROVIDE CONNECTION TO TELEPHONE LINE TO ALLOW SYSTEM TO CALL OFF SITE TO CENTRALLY MANNED SYSTEM IN THE EVENT NO ONE IS AT THE MAIN CONTROL PANEL.
 - MOUNT CONTROL PANEL AND CALL STATIONS SUCH THAT THE TOP PUSHBUTTON IS NO HIGHER THAN 48" AFF.
 - COORDINATE LOCATIONS FOR CALL STATIONS AND CONTROL PANEL WITH ARCHITECT AND GENERAL CONTRACTOR PRIOR TO ANY ROUGH-IN.
 - PROVIDE A RESCUE ASSISTANCE CALL SYSTEM, INCLUDING POWER SUPPLIES, UPS, BATTERIES, SIGNAGE AND ALL NECESSARY APPURTANCES FOR A COMPLETE AND OPERATIONAL SYSTEM. TEST SYSTEM TO ENSURE OPERATION AND REPAIR OR REPLACE ANY EQUIPMENT THAT IS NOT OPERATIONAL OR DEFECTIVE. INSTALL SYSTEM AS PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
 - SUBMIT PRODUCT INFORMATION FOR APPROVAL. INCLUDE ALL COMPONENTS AS WELL AS WIRING DIAGRAM INCLUDING IDENTIFICATION OF ALL CABLING TYPES.

GENERAL NOTES:

- ACCESS CONTROL DEVICES ARE AS PER GRIFIN SECURITY TECHNOLOGIES, LLC DOCUMENTS, DATED 05/02/2023. CABLING, RACEWAYS, BOXES AND 120VAC POWER BY THIS CONTRACTOR. GRIFIN TO PROVIDE ALL ACCESS CONTROL AND SECURITY EQUIPMENT AS WELL AS PROGRAMMING OF THE SYSTEM AND TRAINING OF OWNER. MEET WITH GRIFIN ON SITE TO REVIEW SYSTEM PRIOR TO ANY INSTALLATION OF CABLING, BOXES AND PATHWAYS TO ENSURE PROPER COORDINATION.
- TELECOMMUNICATIONS (VOICE, DATA) ARE AS PER KUA TECHNOLOGY DEPARTMENT. MEET WITH KUA TECHNOLOGY PERSONNEL PRIOR TO ANY WORK TO REVIEW ALL DETAILS OF TELECOM INSTALLATION.

LOW VOLTAGE LEGEND:

- ▽_{VID} DATA (LAN) DEVICE OUTLET, NUMBER INDICATES NUMBER OF CABLES; 1VID = ONE VOICE, ONE DATA JACK/CABLE
- ▽_C CATV (CABLE TELEVISION) DEVICE OUTLET, (1)RG6 CABLE
- ▽_{WAP} CEILING MOUNTED DATA (LAN) WIRELESS ACCESS POINT, NUMBER INDICATES NUMBER OF CABLES; (2)CAT6 CABLES
- ECCP ELEVATOR COMMUNICATIONS MASTER ANNUNCIATOR CONTROL PANEL
- ES ELEVATOR COMMUNICATIONS CALL STATION
- UON SECURITY CAMERA LOCATION, CEILING MOUNTED, UON
- ES ACCESS CONTROL SYSTEM CARD READER
- MPAP MONITOR POINT ACCESS POINT
- AC ABOVE COUNTER
- CM CEILING MOUNTED
- TYP TYPICAL
- NTS NOT TO SCALE
- UON UNLESS OTHERWISE NOTED
- (X) EXISTING, TO REMAIN



ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com

ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
802.989.7249

CIVIL ENGINEER
Kevin Warden, P.E.
Engineering Ventures
kevinw@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER
Bob Neeld, P.E., President
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

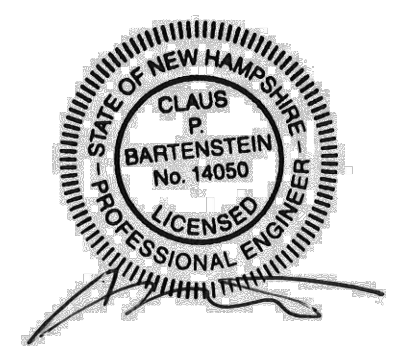
MECH./PLUMBING ENGINEER
Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvtllc.com
802.855.8091

ELECTRICAL ENGINEER
CLAUS BARTENSTEIN, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.bartenstein@esvtllc.com
802.855.8091

CONSTRUCTION MANAGER
NAME & TITLE
ReArch Company, Inc.
EMAIL HERE
802.863.8727

DATE ISSUED: 05/15/2023
Drawn: ESVT
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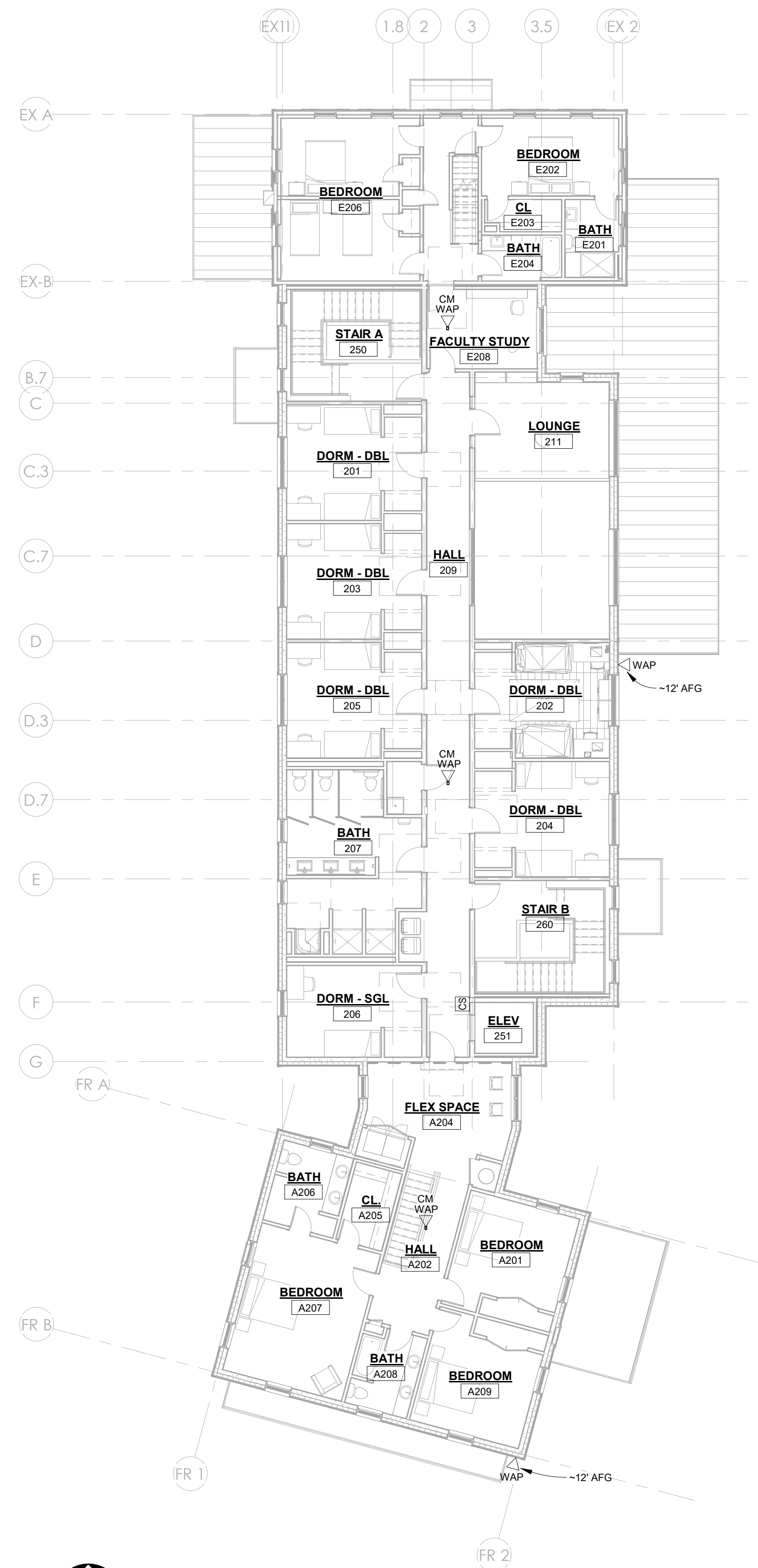
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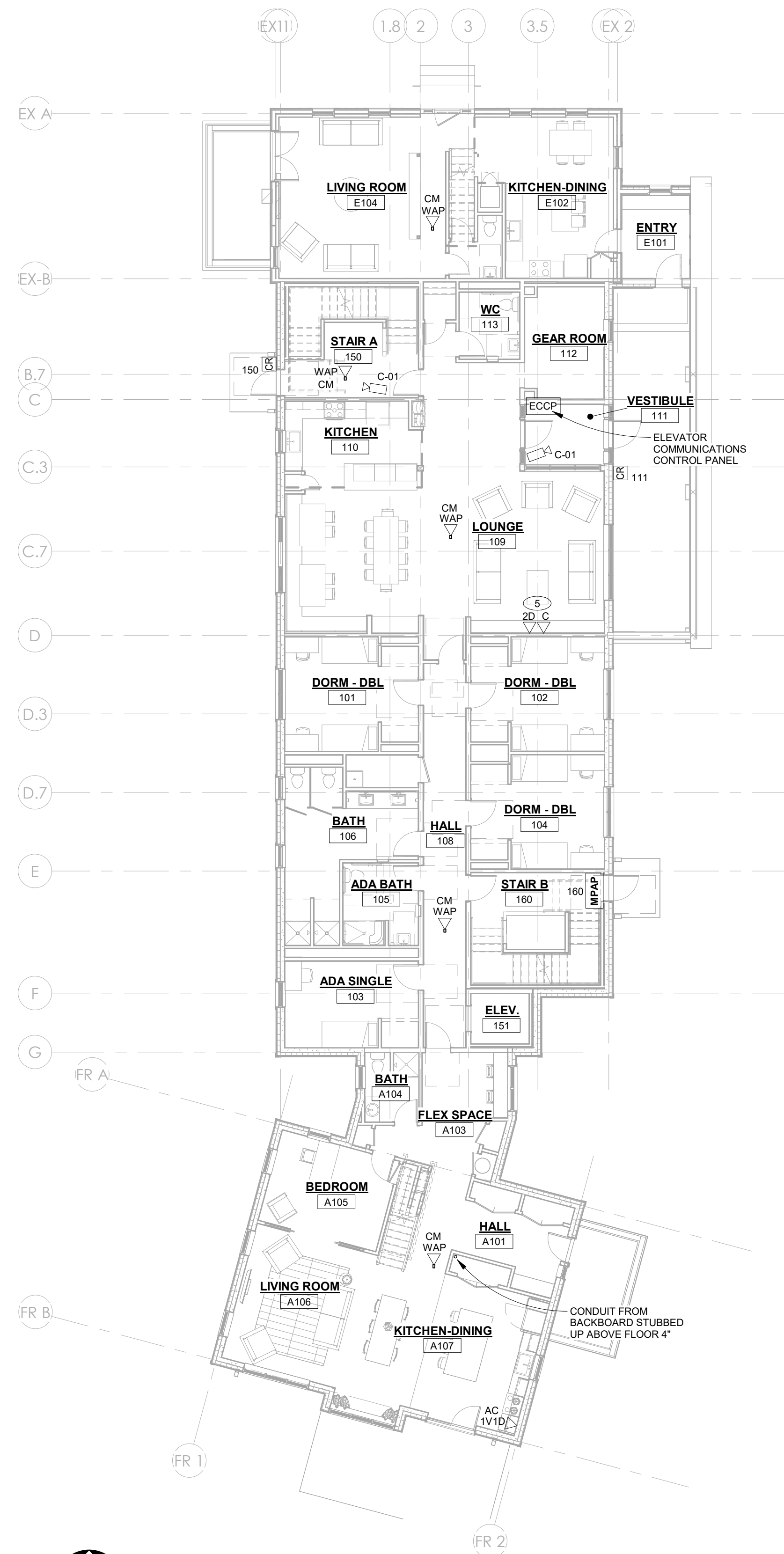
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Meriden, NH 03770

**LOW VOLTAGE
NOTES &
DIAGRAM**

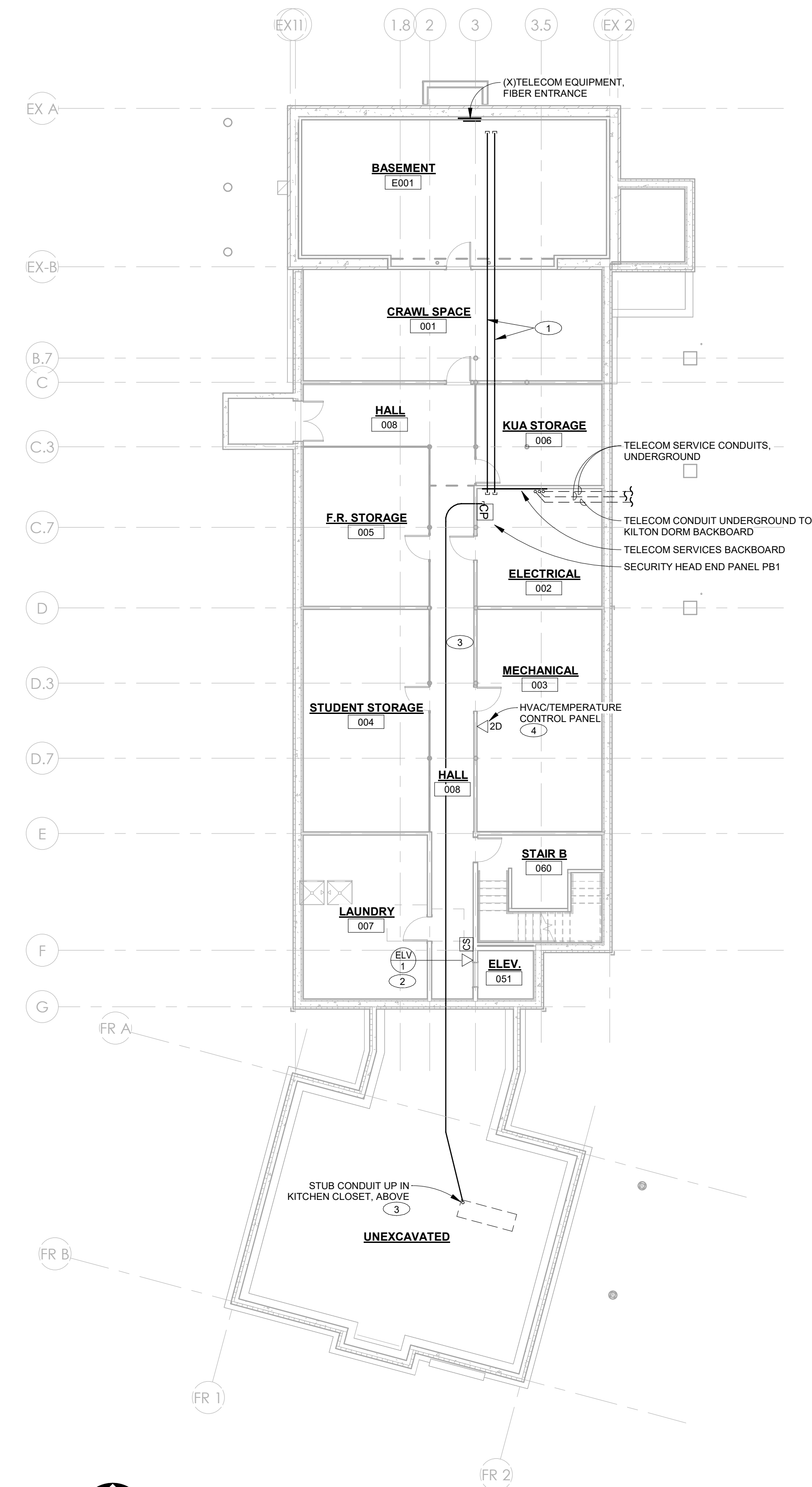
LV1



LOW VOLTAGE SECOND FLOOR PLAN
Scale: 3/32" = 1'-0"



LOW VOLTAGE FIRST FLOOR PLAN
Scale: 3/32" = 1'-0"



LOW VOLTAGE BASEMENT PLAN
Scale: 3/32" = 1'-0"

ACCESS CONTROL & SECURITY:

Cable Pull Sheet

Cable Label	Cable Type	From	End Location	De	Notes
WELCH DORMATORY					
150	Composite	150	PB.1		Card Access Door
111	Composite	111	PB.1		Card Access Door
560	18-4	160	PB.1		Monitor Point Door
301	Cat 6A	C-01	PB.1		2 MP Camera
302	Cat 6A	C-02	PB.1		2 MP Camera

DRAWING NOTES:

- THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- PROVIDE (2) 2.5" SPARE CONDUITS PARALLEL THROUGH THE UNEXCAVATED AREA, UNDERGROUND AND INTO THE EXISTING BASEMENT FOR LOW VOLTAGE CABLING USE.
 - ELEVATOR CONTROLLER IS INTEGRAL TO THE ELEVATOR FACING INTO THE CORRIDOR. PROVIDE A CAT6 POTS LINE FOR CAB TELEPHONE.
 - PROVIDE (1) 2" CONDUIT WITH PULLWIRE TO SERVE FACULTY RESIDENCE A.
 - PROVIDE DATA JACKS ADJACENT TO HVAC/TEMPERATURE CONTROL PANEL. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
 - WALL MOUNTED TELEVISION OR MONITOR LOCATION: PROVIDE CAT6 AND CATV CABLING IN BOX (BOX SPECIFIED ON POWER DRAWINGS), -66" AFF.

GENERAL NOTES:

- REFER TO GENERAL NOTES ON DRAWING E1 WHICH APPLY TO THIS DRAWING, AS WELL AS ANY NOTES WHICH FOLLOW.
- ACCESS CONTROL DEVICES ARE AS PER GRIFFIN SECURITY TECHNOLOGIES, LLC DOCUMENTS, DATED 05/02/2023. CABLING, RACKWAYS, BOXES AND 120VAC POWER BY THIS CONTRACTOR. GRIFFIN TO PROVIDE ALL ACCESS CONTROL AND SECURITY EQUIPMENT AS WELL AS PROGRAMMING OF THE SYSTEM AND TRAINING OF OWNER. MEET WITH GRIFFIN ON SITE TO REVIEW SYSTEM PRIOR TO ANY INSTALLATION OF CABLING, BOXES AND PATHWAYS TO ENSURE PROPER COORDINATION.
 - TELECOMMUNICATIONS (VOICE, DATA) ARE AS PER KUA TECHNOLOGY DEPARTMENT. MEET WITH KUA TECHNOLOGY PERSONNEL PRIOR TO ANY WORK TO REVIEW ALL DETAILS OF TELECOM INSTALLATION.



ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com
ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
802.989.7249

CIVIL ENGINEER

Kevin Worden, P.E.
Engineering Ventures
kevinw@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER

Bob Neeld, P.E. President
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER

Daniel Dupros, P.E.
Engineering Services of Vermont, LLC
daniel.dupros@esvllc.com
802.885.8091

ELECTRICAL ENGINEER

Claus Bartenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.bartenstein@esvllc.com
802.885.8091

CONSTRUCTION MANAGER

NAME & TITLE
ReArch Company, Inc.
EMAIL HERE
802.863.8727

DATE ISSUED: 05/15/2023
Drawn: ESVT
Checked: CPB

REVISIONS:



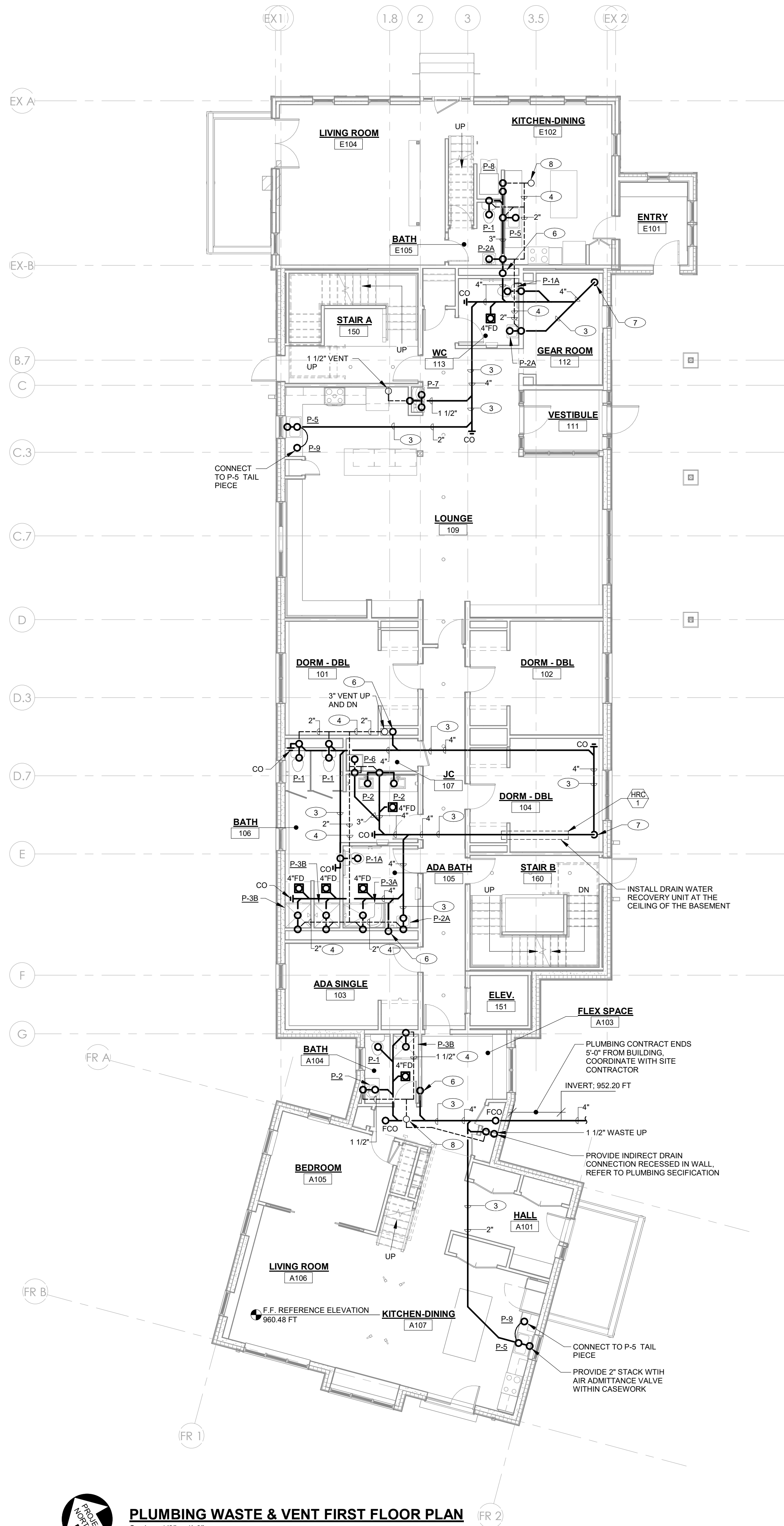
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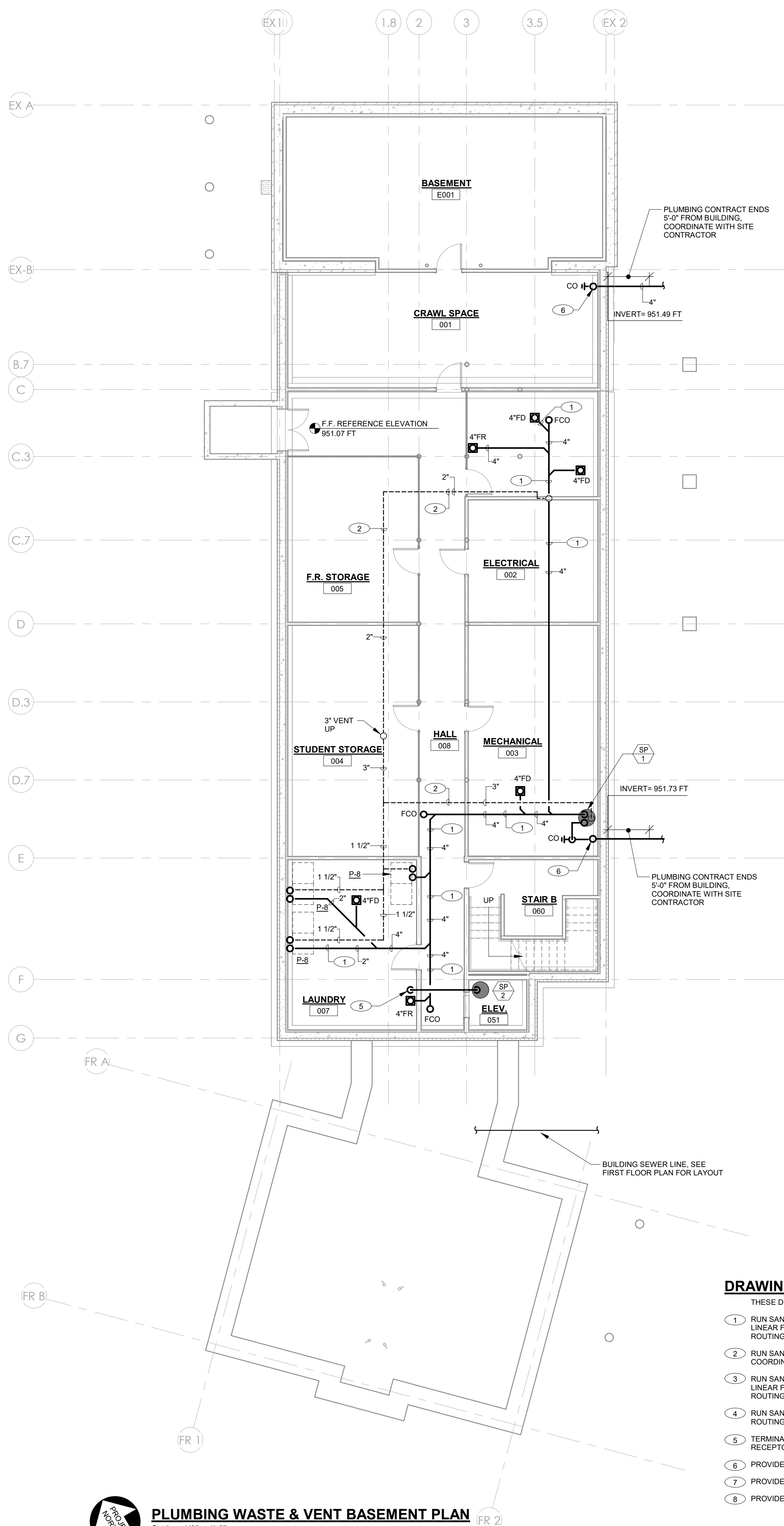
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**WELCH
LOW VOLTAGE**

LVW5



PLUMBING WASTE & VENT FIRST FLOOR PLAN
Scale: 1/8" = 1'-0"

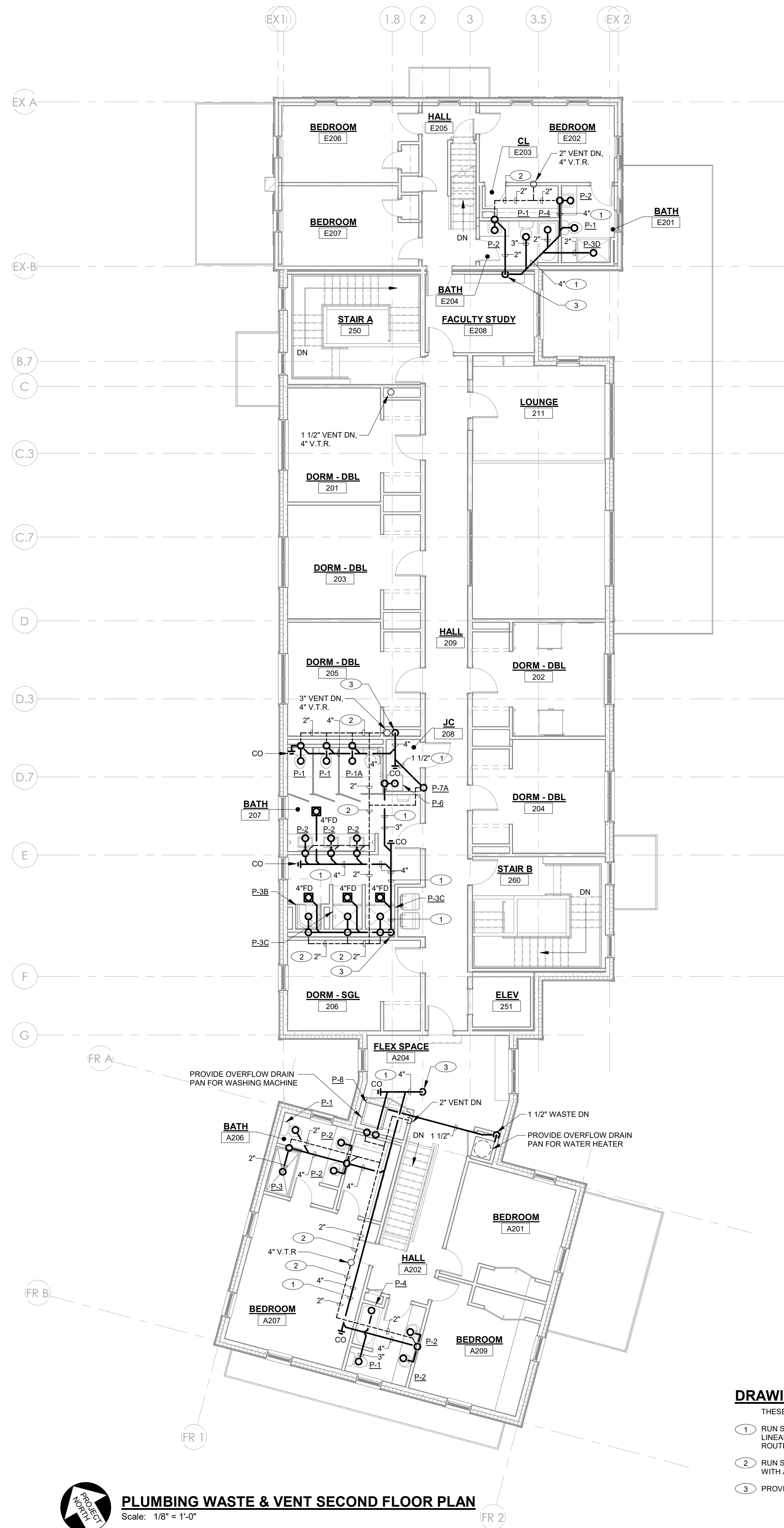


PLUMBING WASTE & VENT BASEMENT PLAN
Scale: 1/8" = 1'-0"

DRAWING NOTES:

- THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- 1 RUN SANITARY WASTE PIPING BELOW SLAB, PITCH 1/4" PER LINEAR FOOT MINIMUM IN DIRECTION OF FLOW. COORDINATE ROUTING WITH ALL OTHER TRADES.
 - 2 RUN SANITARY VENT PIPING AS HIGH AS POSSIBLE EXPOSED. COORDINATE ROUTING WITH ALL OTHER TRADES.
 - 3 RUN SANITARY WASTE PIPING BELOW FLOOR, PITCH 1/4" PER LINEAR FOOT MINIMUM IN DIRECTION OF FLOW. COORDINATE ROUTING WITH ALL OTHER TRADES.
 - 4 RUN SANITARY VENT PIPING ABOVE CEILING, COORDINATE ROUTING WITH ALL OTHER TRADES.
 - 5 TERMINATE 2" INDIRECT PUMPED WASTE LINE AT FLOOR RECEPTOR, PROVIDE 3" AIR GAP MINIMUM.
 - 6 PROVIDE 4" WASTE UP.
 - 7 PROVIDE 4" WASTE DOWN.
 - 8 PROVIDE 2" VENT UP.





PLUMBING WASTE & VENT SECOND FLOOR PLAN
Scale: 1/8" = 1'-0"

DRAWING NOTES:

THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.

- ① RUN SANITARY WASTE PIPING BELOW FLOOR. PITCH 1/4" PER LINEAR FOOT MINIMUM IN DIRECTION OF FLOW. COORDINATE ROUTING WITH ALL OTHER TRADES.
- ② RUN SANITARY VENT PING ABOVE CEILING. COORDINATE ROUTING WITH ALL OTHER TRADES.
- ③ PROVIDE 4" WASTE DOWN.



ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com
ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

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Middlebury, VT 05753
802.989.7249

CIVIL ENGINEER
Kevin Worden, P.E.
Engineering Ventures
kevinw@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER
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Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER
Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvllc.com
802.885.8091

ELECTRICAL ENGINEER
Claus Bartenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.bartenstein@esvllc.com
802.885.8091

CONSTRUCTION MANAGER
NAME & TITLE
ReArch Company, Inc.
EMAIL HERE
802.863.6727

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Main Street
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**WELCH SECOND
FLOOR - WASTE &
VENT**

PW-1.2



VERMONT INTEGRATED ARCHITECTURE, PC

ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com
ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
802.989.7249

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kevinw@engineeringventures.com
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Engineering Ventures
bobn@engineeringventures.com
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MECH./PLUMBING ENGINEER

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ELECTRICAL ENGINEER

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claus.bartenstein@esvllc.com
802.885.8091

CONSTRUCTION MANAGER

NAME & TITLE
ReArch Company, Inc.
EMAIL HERE
802.863.6727

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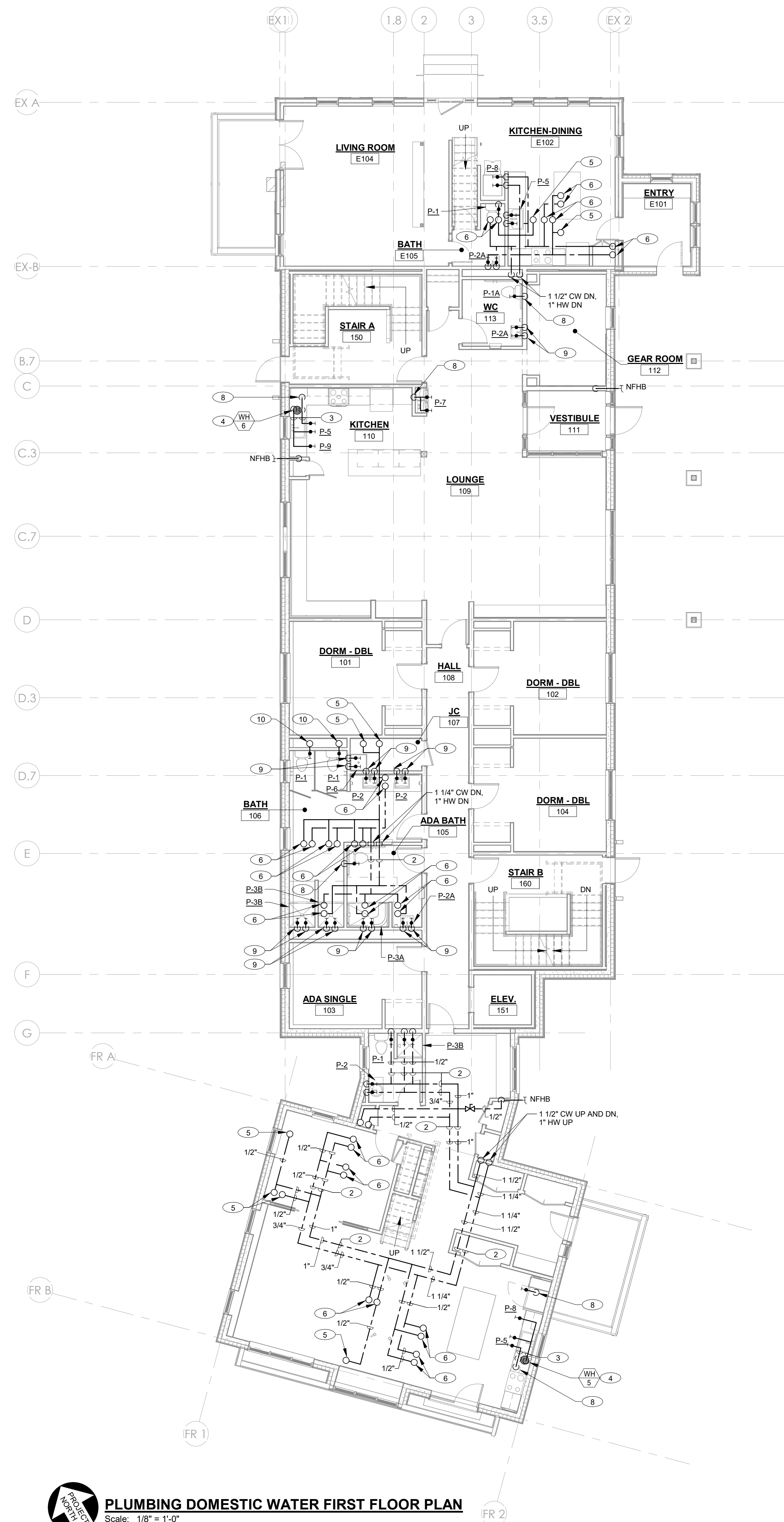
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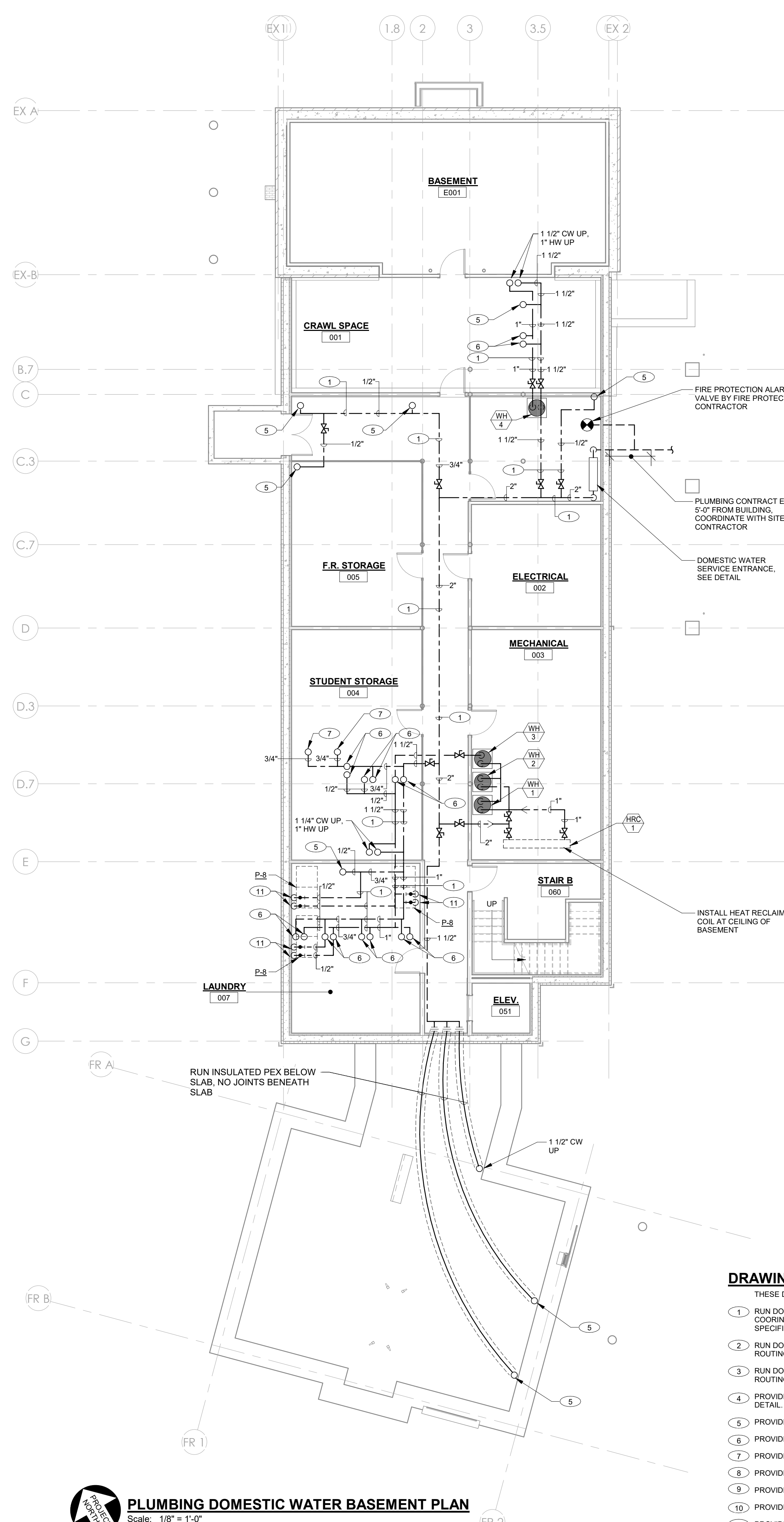
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WELCH BASEMENT
AND FIRST FLOOR
- DOMESTIC

PW-2.1



PLUMBING DOMESTIC WATER FIRST FLOOR PLAN
Scale: 1/8" = 1'-0"



PLUMBING DOMESTIC WATER BASEMENT PLAN
Scale: 1/8" = 1'-0"

DRAWING NOTES:

- THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- 1 RUN DOMESTIC WATER PIPING AS HIGH AS POSSIBLE EXPOSED. COORDINATE ROUTING WITH ALL OTHER TRADES. INSULATE AS SPECIFIED.
 - 2 RUN DOMESTIC WATER PIPING ABOVE CEILING. COORDINATE ROUTING WITH ALL OTHER TRADES. INSULATE AS SPECIFIED.
 - 3 RUN DOMESTIC WATER PIPING WITHIN CASEWORK. COORDINATE ROUTING WITH ALL OTHER TRADES. INSULATE AS SPECIFIED.
 - 4 PROVIDE WATER HEATER MOUNTED WITHIN CASEWORK. SEE DETAIL.
 - 5 PROVIDE 1/2" COLD WATER UP.
 - 6 PROVIDE 1/2" COLD WATER AND 1/2" HOT WATER UP.
 - 7 PROVIDE 3/4" COLD WATER UP.
 - 8 PROVIDE 1/2" COLD WATER DOWN.
 - 9 PROVIDE 1/2" COLD WATER AND 1/2" HOT WATER DOWN.
 - 10 PROVIDE 1/2" COLD WATER UP AND 3/4" COLD WATER DOWN.
 - 11 PROVIDE WATER HAMMER ARRESTORS FOR ALL WASHING MACHINE SUPPLY LINES.



VERMONT INTEGRATED ARCHITECTURE, PC

ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com
ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
802.989.7249

CIVIL ENGINEER
Kevin Worden, P.E.
Engineering Ventures
kevinw@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER
Bob Neeld, P.E. President
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER
Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvllc.com
802.885.8091

ELECTRICAL ENGINEER
Claus Bartenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.bartenstein@esvllc.com
802.885.8091

CONSTRUCTION MANAGER
NAME & TITLE
ReArch Company, Inc.
EMAIL HERE
802.863.6727

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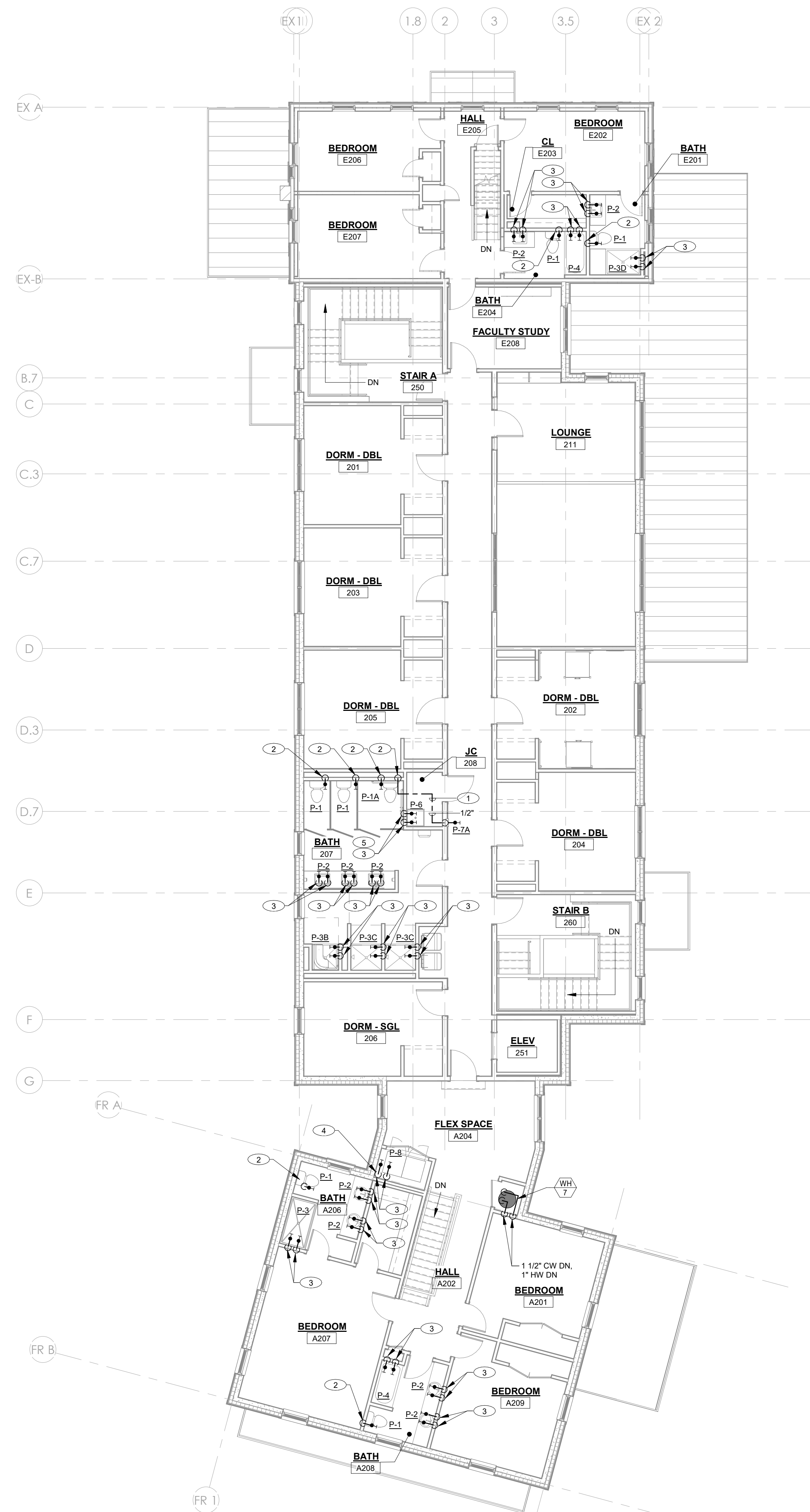
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DORMITORIES

Main Street
Meriden, NH 03770

WELCH SECOND
FLOOR -
DOMESTIC

PW-2.2



DRAWING NOTES:

- 1 THESE DRAWING NOTES APPLY TO THIS DRAWING ONLY.
- 1 RUN DOMESTIC WATER PIPING ABOVE CEILING. COORDINATE ROUTING WITH ALL OTHER TRADES. INSULATE AS SPECIFIED.
- 2 PROVIDE 1/2" COLD WATER DOWN.
- 3 PROVIDE 1/2" COLD WATER AND 1/2" HOT WATER DOWN.
- 4 PROVIDE WATER HAMMER ARRESTORS FOR ALL WASHING MACHINE SUPPLY LINES.
- 5 CAP 1/2" HOT AND COLD WATER ABOVE JANITORS SINK FOR CLEANING EQUIPMENT, PROVIDE WATTS MODEL 009-QT-RP2 BACKFLOW PREVENTER ON EACH LINE. TERMINATE WITH HOSE CONNECTION.



PLUMBING DOMESTIC WATER SECOND FLOOR PLAN

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



VERMONT INTEGRATED ARCHITECTURE, PC

ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com

ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
802.989.7249

CIVIL ENGINEER

Kevin Worden, P.E.
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MECH./PLUMBING ENGINEER

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ELECTRICAL ENGINEER

Claus Bartenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.bartenstein@esvllc.com
802.885.8091

CONSTRUCTION MANAGER

NAME & TITLE
ReArch Company, Inc.
EMAIL HERE
802.863.8727

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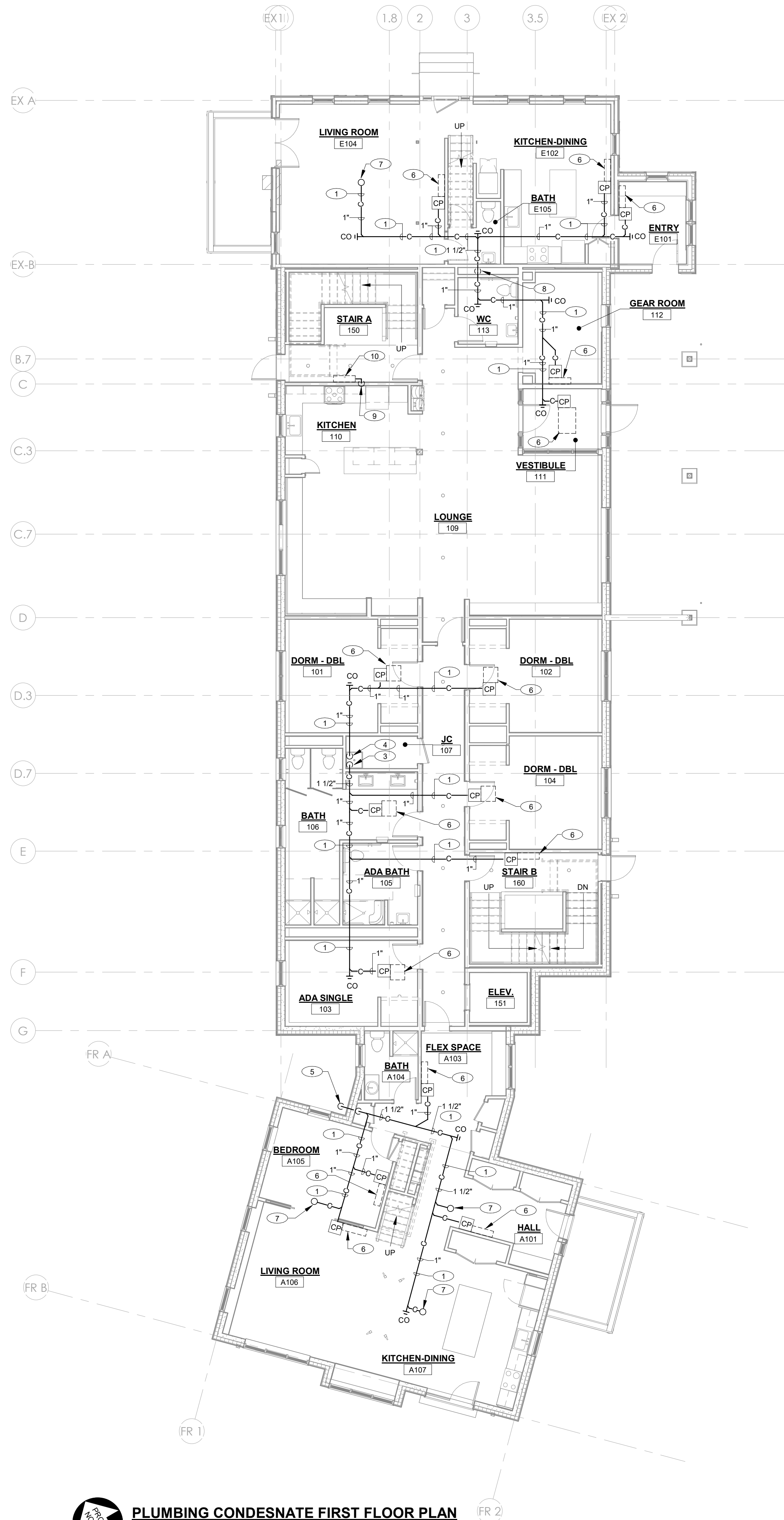
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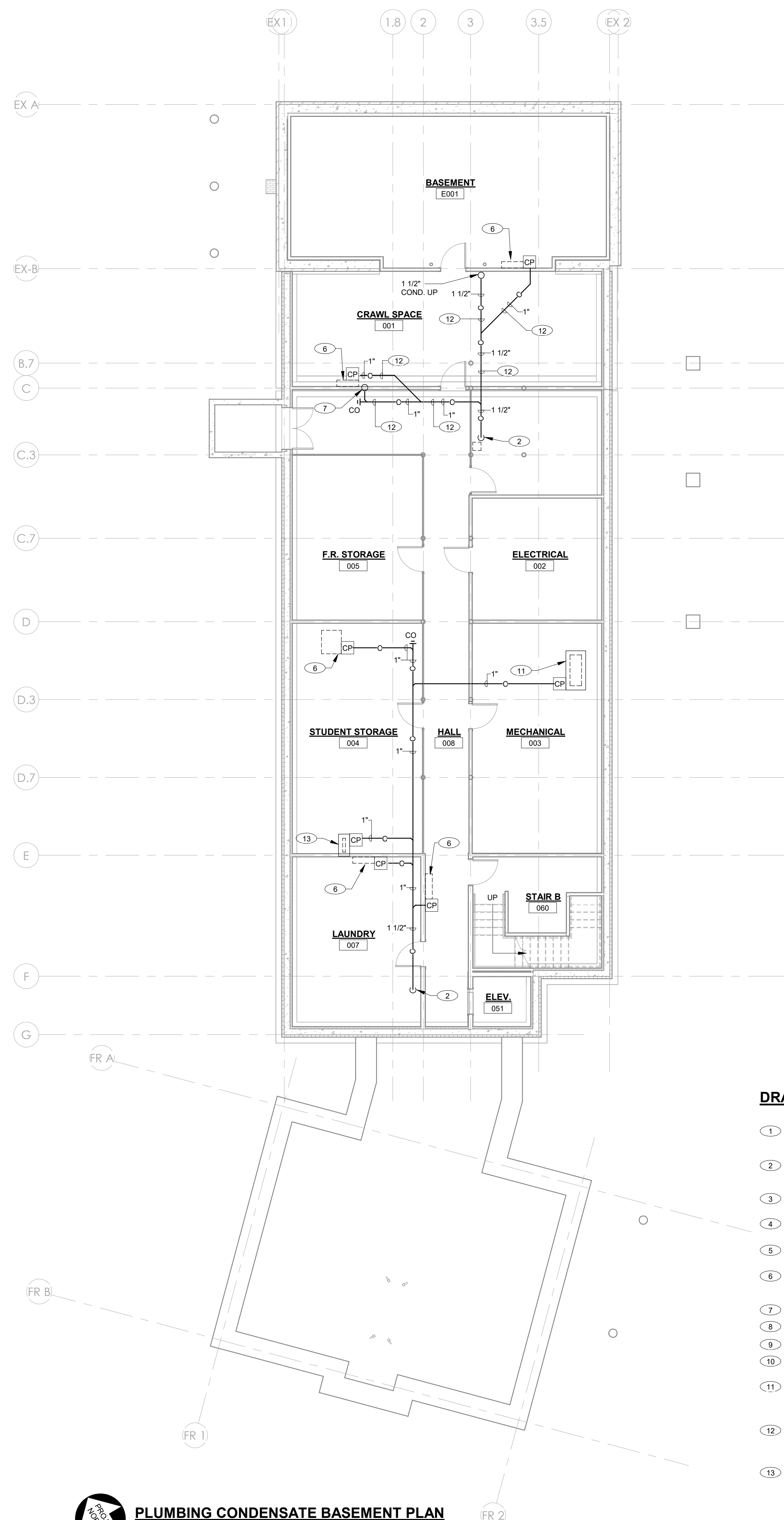
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WELCH BASEMENT
AND FIRST FLOOR
- CONDENSATE

PW-3.1



PLUMBING CONDENSATE FIRST FLOOR PLAN
Scale: 1/8" = 1'-0"



PLUMBING CONDENSATE BASEMENT PLAN
Scale: 1/8" = 1'-0"

DRAWING NOTES:

THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.

- 1 RUN CONDENSATE DRAINAGE PIPING ABOVE CEILING, PITCH 1/8" PER LINEAR FOOT MINIMUM IN DIRECTION OF FLOW. COORDINATE ROUTING WITH ALL OTHER TRADES. INSULATE AS SPECIFIED.
- 2 TERMINATE 1 1/2" CONDENSATE PIPING AT FLOOR RECEPTOR, PROVIDE INDIRECT DRAIN CONNECTION WITH 3" AIR GAP MINIMUM.
- 3 TERMINATE 1 1/2" CONDENSATE PIPING AT SERVICE SINK, PROVIDE INDIRECT DRAIN CONNECTION WITH 3" AIR GAP MINIMUM.
- 4 TERMINATE 1" CONDENSATE PIPING AT SERVICE SINK, PROVIDE INDIRECT DRAIN CONNECTION WITH 3" AIR GAP MINIMUM.
- 5 TERMINATE 1 1/2" CONDENSATE DRAINAGE PIPING AT EXTERIOR OF BUILDING, PROVIDE DRIP ELBOW, SEE ELBOW.
- 6 FAN COIL UNIT WITH CONDENSATE PUMP PROVIDED BY MECHANICAL CONTRACTOR, PROVIDE 1" CONDENSATE DRAIN CONNECTION.
- 7 PROVIDE 1" CONDENSATE UP.
- 8 PROVIDE 1 1/2" CONDENSATE DOWN.
- 9 PROVIDE 1" CONDENSATE DOWN.
- 10 FAN COIL UNIT PROVIDED BY MECHANICAL CONTRACTOR, PROVIDE 1" CONDENSATE DRAIN CONNECTION.
- 11 REFRIGERANT BRANCH CONTROL BOX PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE DRAIN PAN WITH DRAIN PAN LEVEL SENSOR, CONDENSATE PUMP AND 1" CONDENSATE DRAIN CONNECTION.
- 12 RUN CONDENSATE DRAINAGE PIPING AS HIGH AS POSSIBLE EXPOSED, PITCH 1/8" PER LINEAR FOOT MINIMUM IN DIRECTION OF FLOW. COORDINATE ROUTING WITH ALL OTHER TRADES. INSULATE AS SPECIFIED.
- 13 IN-LINE DUCTED DX COIL PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE DRAIN PAN WITH DRAIN PAN LEVEL SENSOR, CONDENSATE PUMP AND 1" CONDENSATE DRAIN CONNECTION.



VERMONT INTEGRATED ARCHITECTURE, PC

ANDREA MURRAY, AIA, NCARB, LEED AP
andrea@vermontintegratedarchitecture.com
ASHAR NELSON, AIA, LEED AP
ashar@vermontintegratedarchitecture.com

P.O. Box 862
Middlebury, VT 05753
802.989.7249

CIVIL ENGINEER
Kevin Worden, P.E.
Engineering Ventures
kevinw@engineeringventures.com
802.863.6225

STRUCTURAL ENGINEER
Bob Neeld, P.E., President
Engineering Ventures
bobn@engineeringventures.com
802.863.6225

MECH./PLUMBING ENGINEER
Daniel Dupras, P.E.
Engineering Services of Vermont, LLC
daniel.dupras@esvllc.com
802.885.8091

ELECTRICAL ENGINEER
Claus Bartenstein, P.E., LEED-AP
Engineering Services of Vermont, LLC
claus.bartenstein@esvllc.com
802.885.8091

CONSTRUCTION MANAGER
NAME & TITLE
ReArch Company, Inc.
EMAIL HERE
802.863.6727

DATE ISSUED: 05/15/2023
Drawn: NDD
Checked: DWD

REVISIONS:



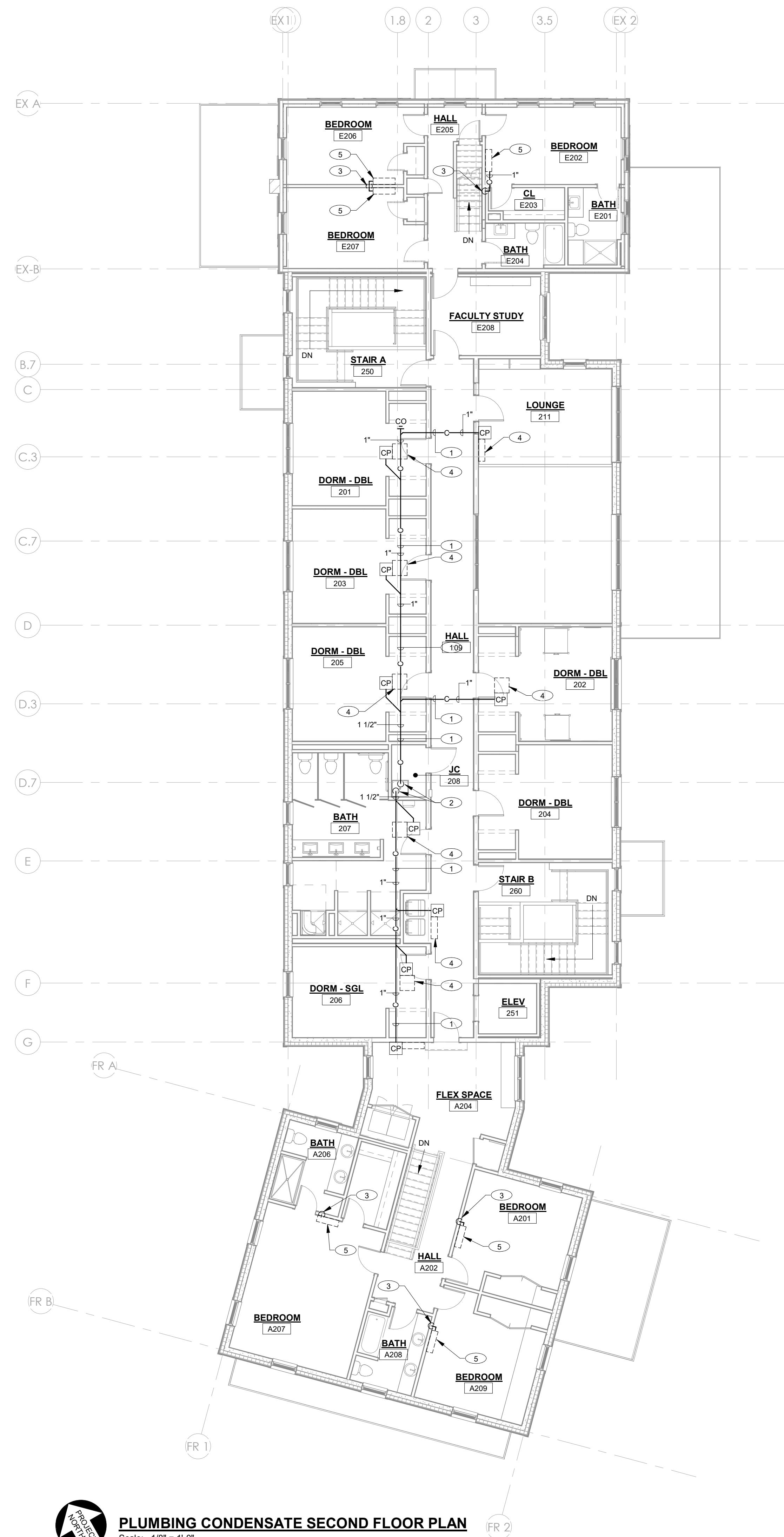
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KUA
KILTON/WELCH
DORMITORIES

Main Street
Meriden, NH 03770

WELCH SECOND
FLOOR -
CONDENSATE

PW-3.2

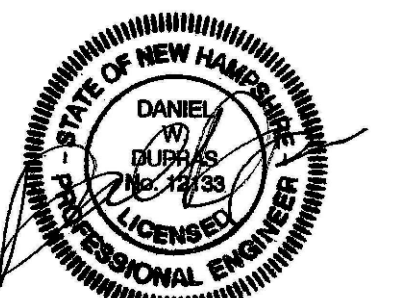


DRAWING NOTES:

- 1. THESE DRAWING NOTES APPLY TO THIS DRAWING, ONLY.
- 1. RUN CONDENSATE DRAINAGE PIPING ABOVE CEILING, PITCH 1/8" PER LINEAR FOOT MINIMUM IN DIRECTION OF FLOW. COORDINATE ROUTING WITH ALL OTHER TRADES. INSULATE AS SPECIFIED.
- 2. TERMINATE 1 1/2" CONDENSATE PIPING AT SERVICE SINK. PROVIDE INDIRECT DRAIN CONNECTION WITH 3" AIR GAP MINIMUM.
- 3. PROVIDE 1" CONDENSATE DOWN.
- 4. FAN COIL UNIT WITH CONDENSATE PUMP PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE 1" CONDENSATE DRAIN CONNECTION.
- 5. FAN COIL UNIT PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE 1" CONDENSATE DRAIN CONNECTION.



PLUMBING CONDENSATE SECOND FLOOR PLAN
Scale: 1/8" = 1'-0"

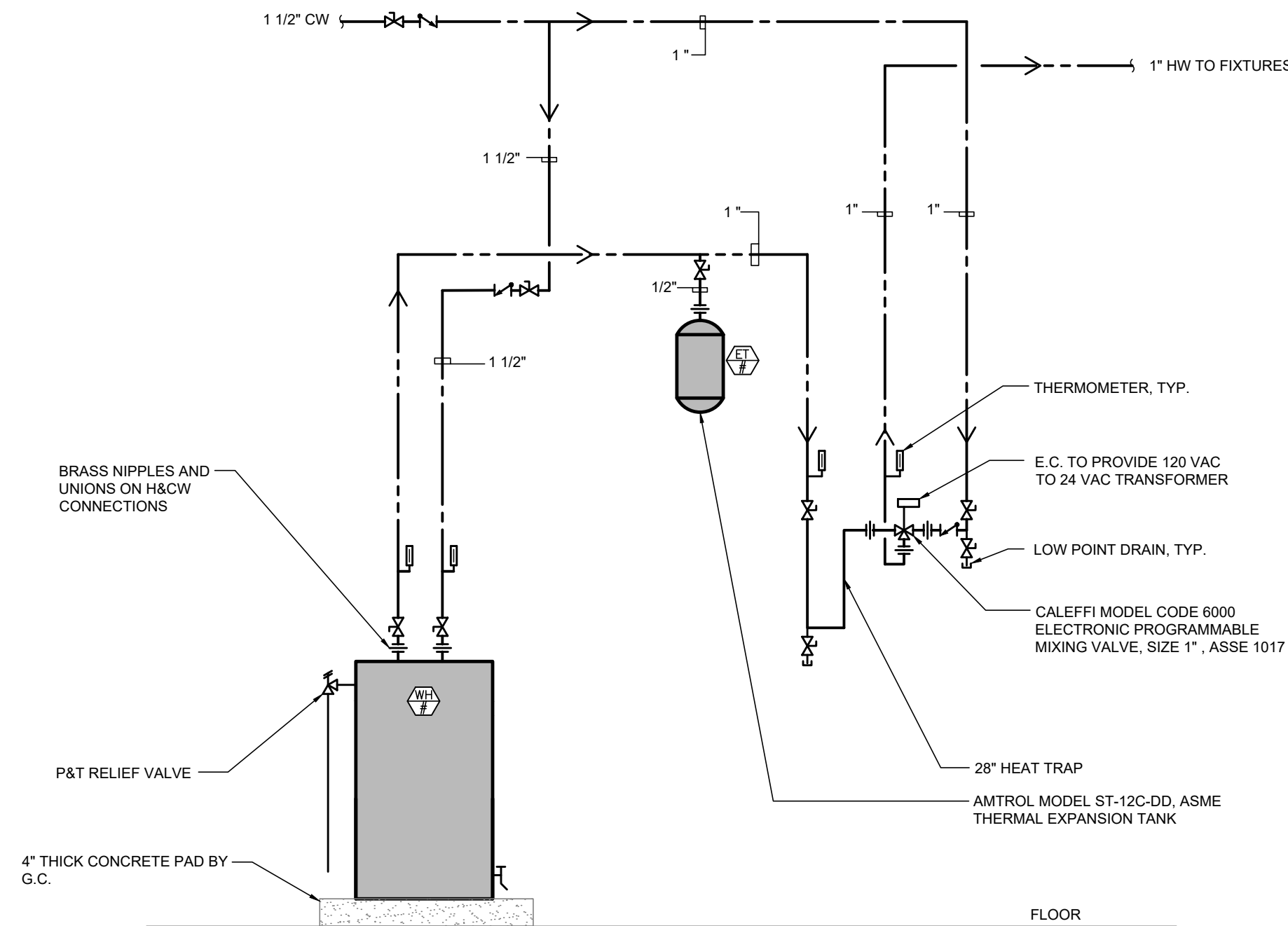


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**KUA
KILTON/WELCH
DORMITORIES**

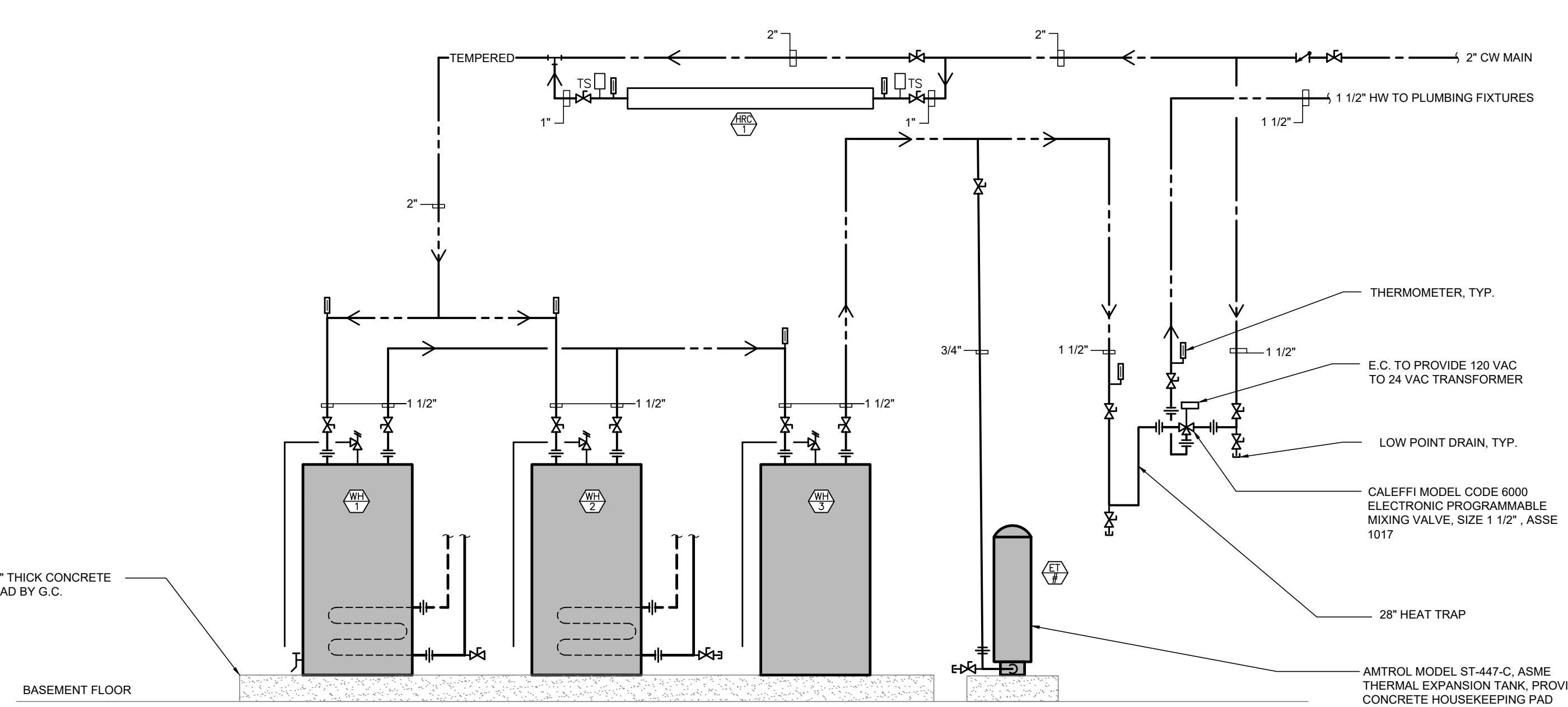
Main Street
Meriden, NH 03770
**WELCH -
PLUMBING
DETAILS**

PW-4.1



DOMESTIC WATER HEATER PIPING DETAIL
NOT TO SCALE

WATER HEATER: LOCHINVAR MODEL ETA119KD, ELECTRIC UNIT, WITH A RATED RECOVERY OF 19 GPH AT 100 DEG. F. RISE, 119 GALLON, 4.5KW, 4500 WATT NON-SIMULTANEOUS HEATING ELEMENT, 208V, 1 PHASE, 60 HZ.

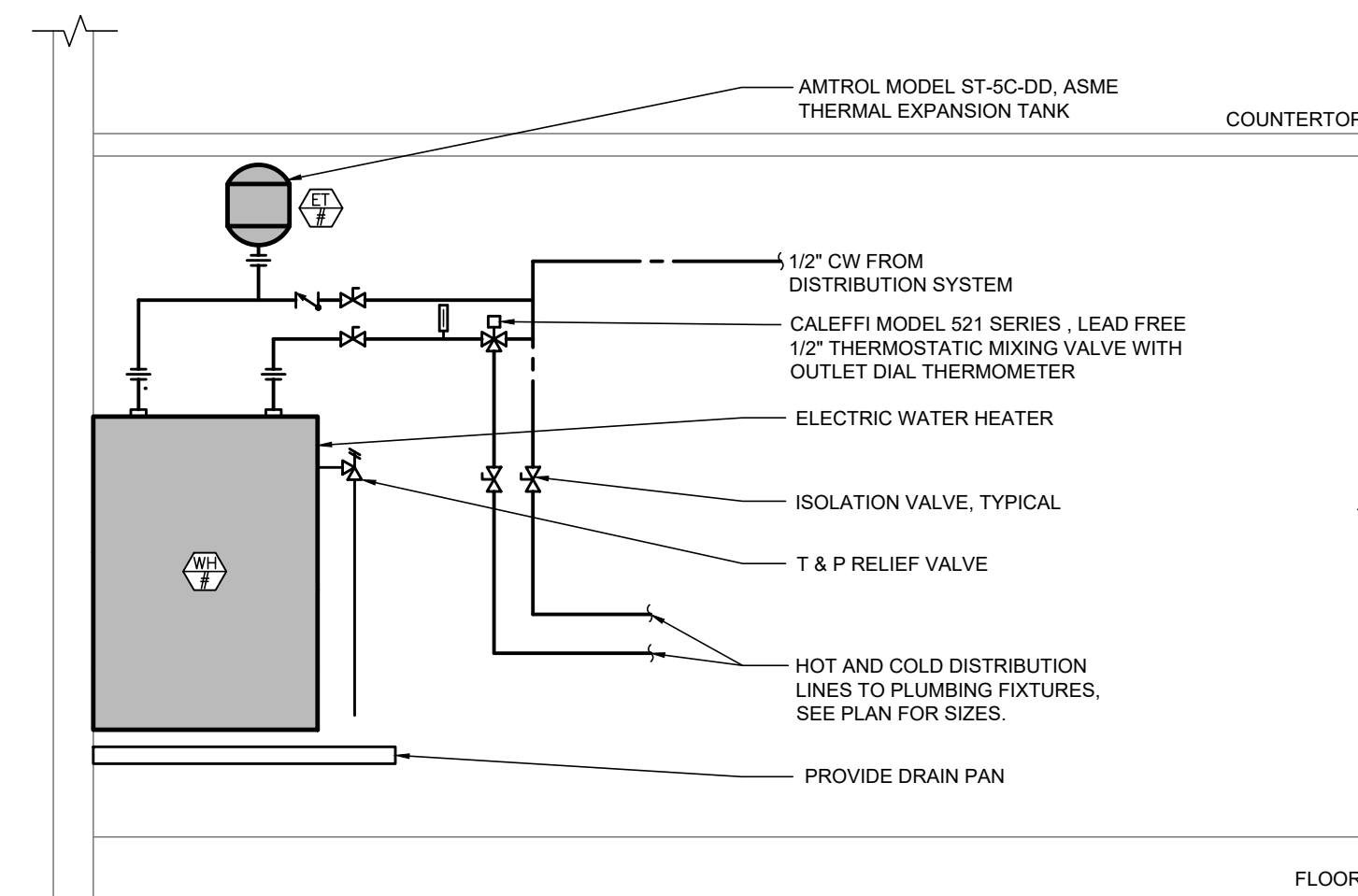


DOMESTIC WATER HEATING PIPING DETAIL
NOT TO SCALE

WATER HEATER: HTP SUPERSTOR ULTRA COMMERCIAL MODEL SSU-199CN, INDIRECT UNIT, WITH A RATED RECOVERY OF 637 GPH AT 90 DEG. F. RISE, 180 DEG. F. SUPPLY WATER, 119 GALLONS AND COPPER/NICKEL HEAT EXCHANGER.

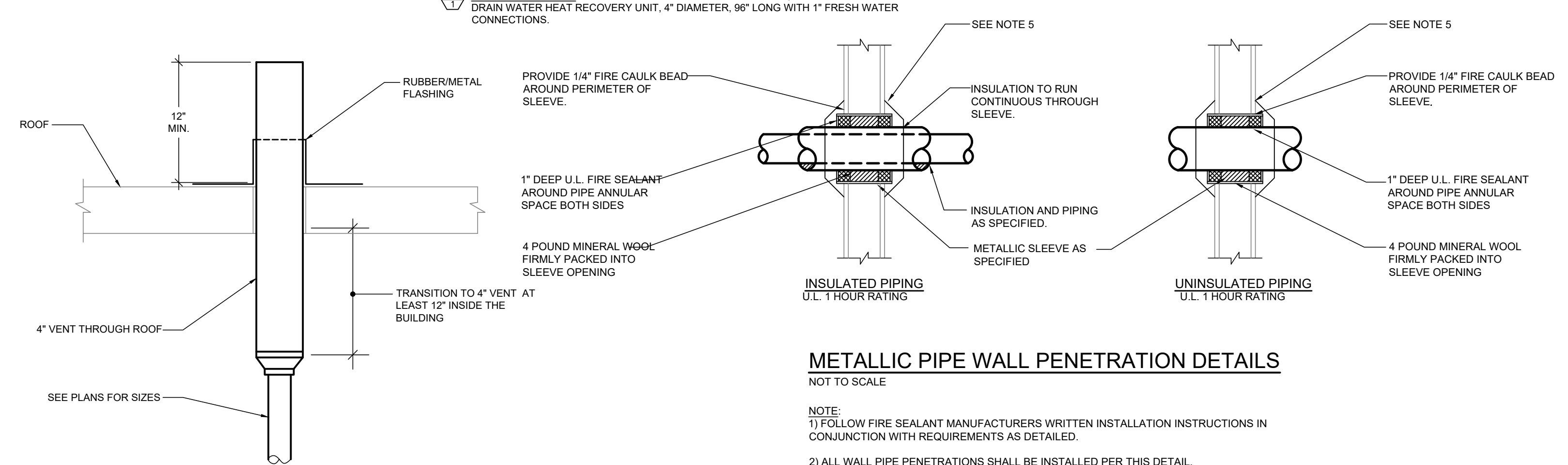
WATER HEATER: AO SMITH MODEL LTE 1200, ELECTRIC UNIT, WITH A RATED RECOVERY OF 41 GPH AT 100 DEG. F. RISE, 119 GALLON, 10KW, TWO 5000 WATT UPPER AND LOWER SIMULTANEOUS HEATING ELEMENTS, 208V, 1 PHASE, 60 HZ.

HEAT RECLAIM COIL: RENEVABILITY POWERPIPE MODEL C4-96, COMMERCIAL COPPER DRAIN WATER HEAT RECOVERY UNIT, 4" DIAMETER, 96" LONG WITH 1" FRESH WATER CONNECTIONS.



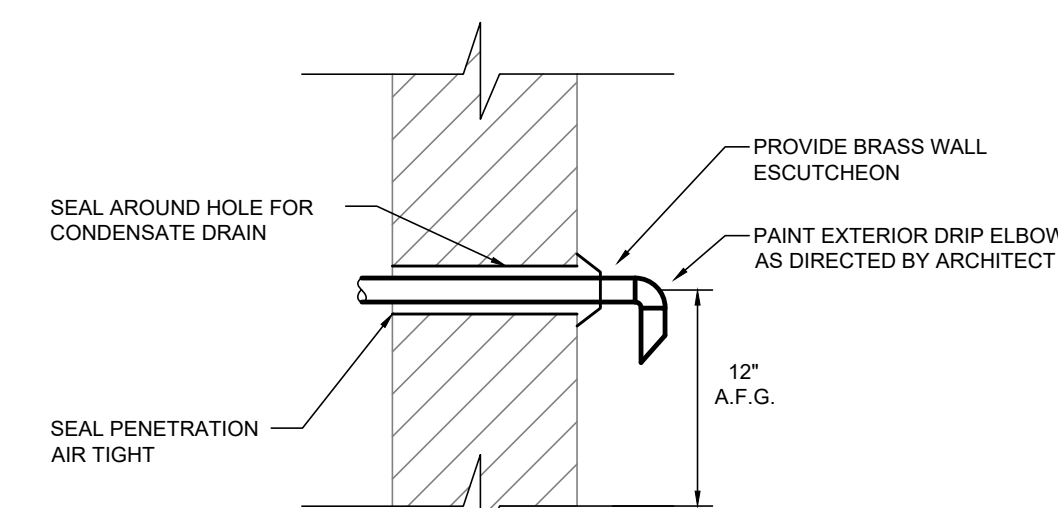
POINT-OF-USE ELECTRIC WATER HEATER PIPING DETAIL
NOT TO SCALE

WATER HEATER: AO SMITH MODEL EJC-6, ELECTRIC UNIT, 6 GALLON, 1650 WATT NON-SIMULTANEOUS HEATING ELEMENT, 208V, 1 PHASE, 60 HZ.

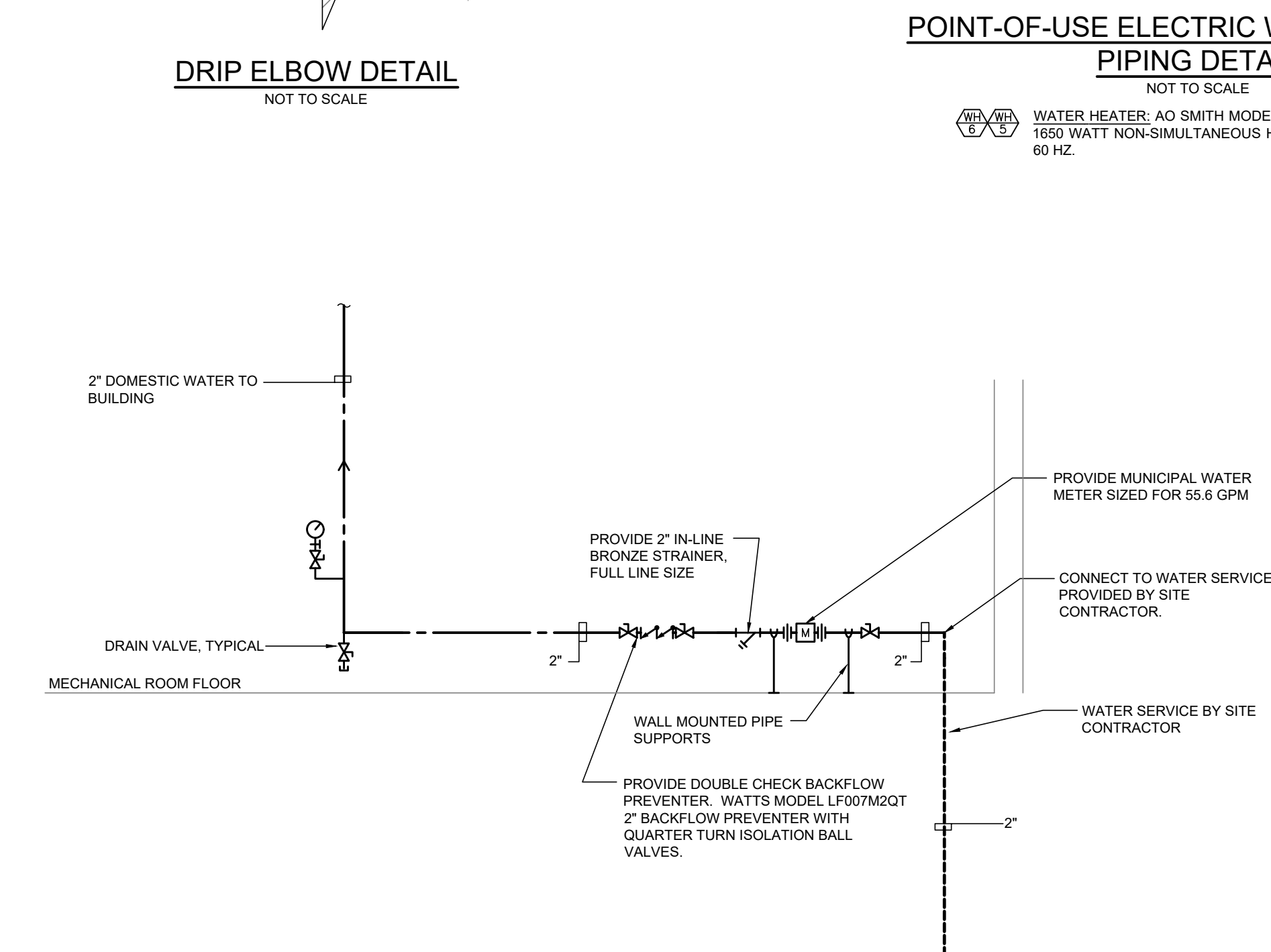


METALLIC PIPE WALL PENETRATION DETAILS
NOT TO SCALE

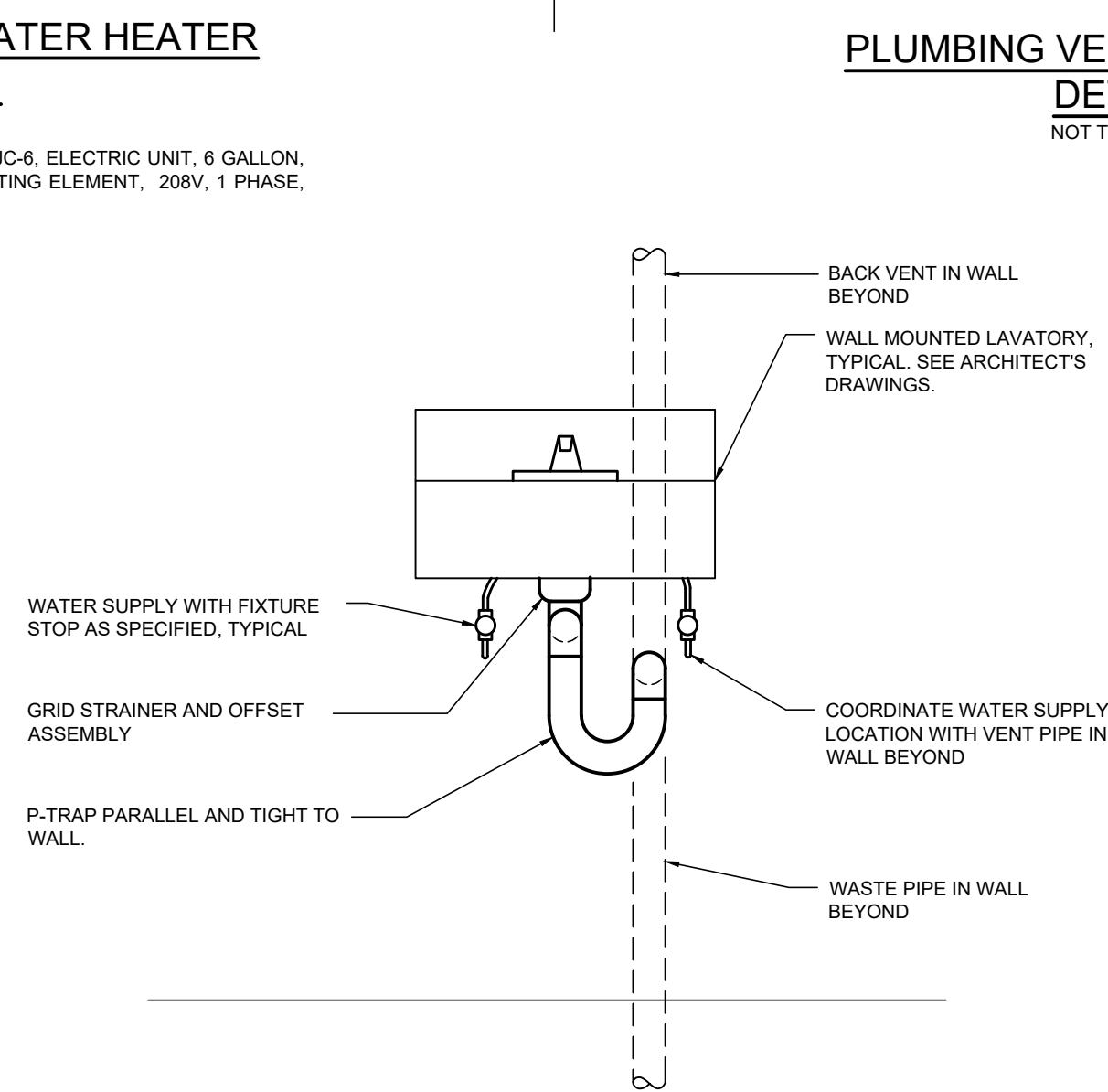
- NOTE:
- 1) FOLLOW FIRE SEALANT MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
 - 2) ALL WALL PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.
 - 3) DETAIL BASED ON STI "SPEC-SEAL" FIRE STOPPING PRODUCTS, ALTERNATE MANUFACTURERS INSTALLATION REQUIREMENTS MAY VARY.
 - 4) ALL WALL PENETRATIONS SHALL BE INSTALLED TO MEET U.L. TESTED ASSEMBLIES. REFER TO ARCHITECT'S DRAWINGS FOR U.L. DESIGNATIONS OF WALL ASSEMBLIES.
 - 5) PROVIDE CHROME PLATED METAL PIPE ESCUTCHEONS FOR ALL EXPOSED WALL PENETRATIONS.



DRIP ELBOW DETAIL
NOT TO SCALE



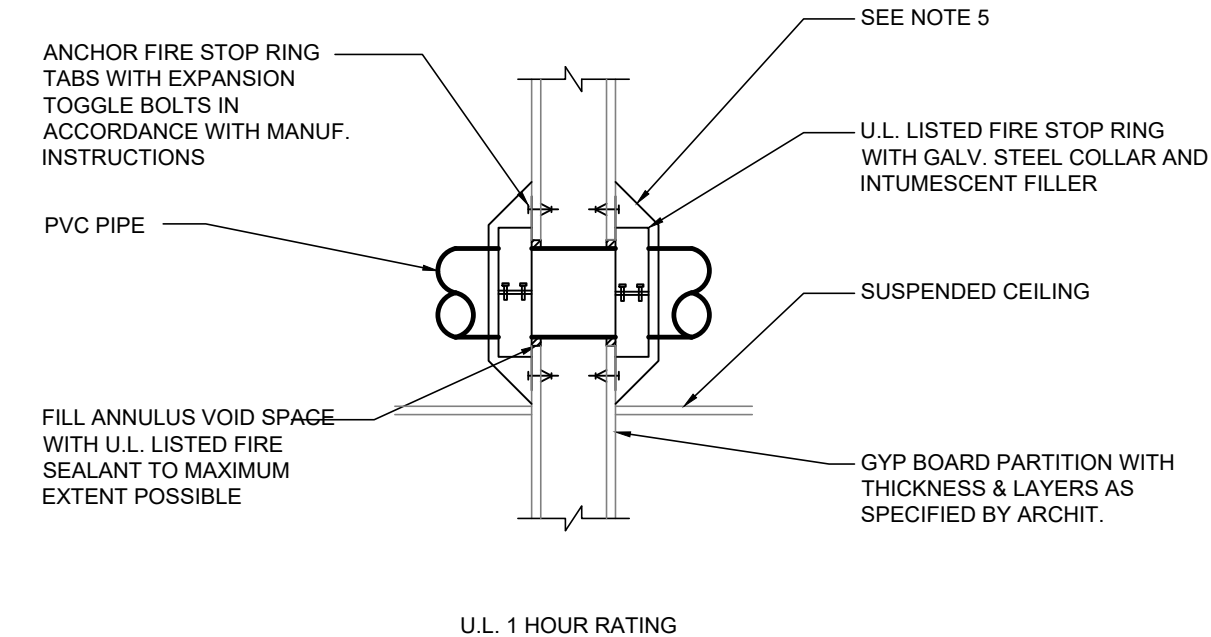
DOMESTIC WATER ENTRANCE DETAIL
NOT TO SCALE



ACCESSIBLE LAVATORY PIPING DETAIL
NOT TO SCALE

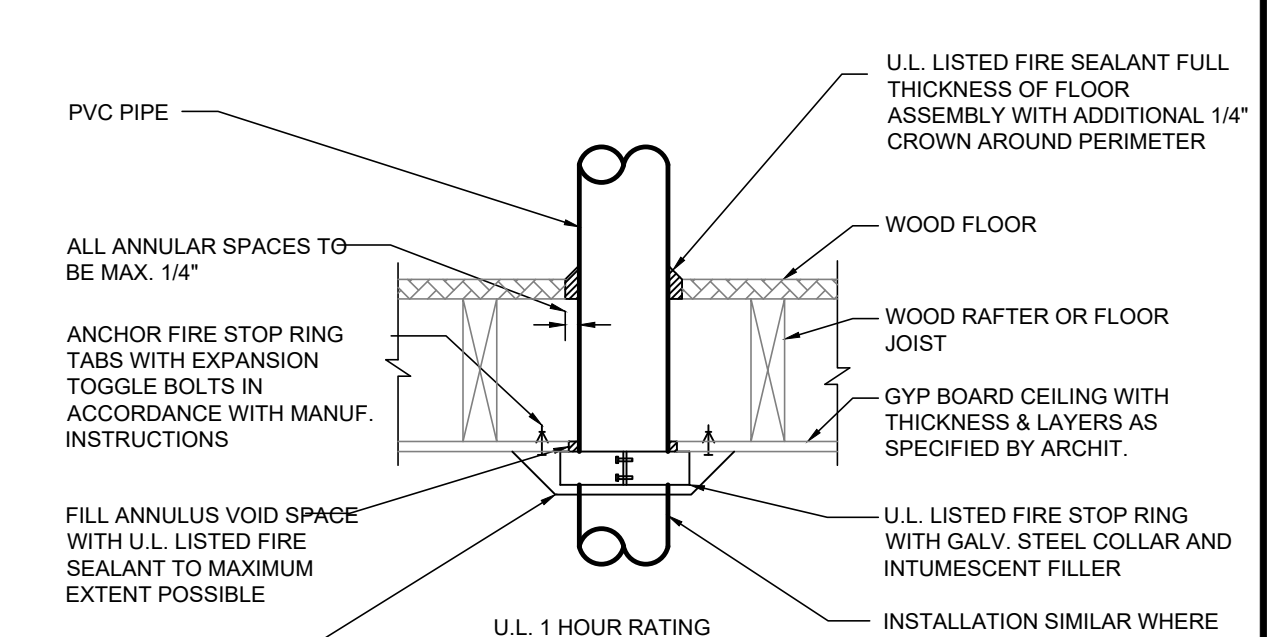
- NOTES:
1. PROVIDE VINYL TRAP AND WATER SUPPLY COVERS KIT AS SPECIFIED ON ALL EXPOSED PIPING TO MEET A.D.A. REQUIREMENTS.
 2. SIMILAR FOR ALL ADA LAVATORIES.

PLUMBING VENT THRU ROOF DETAIL
NOT TO SCALE



PVC PIPE WALL PENETRATION DETAILS
NOT TO SCALE

- NOTE:
- 1) FOLLOW FIRE SEALANT MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
 - 2) ALL PVC PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.
 - 3) DETAIL BASED ON STI "SPEC-SEAL" FIRE STOPPING PRODUCTS, ALTERNATE MANUFACTURERS INSTALLATION REQUIREMENTS MAY VARY.
 - 4) ALL FLOOR & WALL PENETRATIONS SHALL BE INSTALLED TO MEET U.L. TESTED ASSEMBLIES. REFER TO ARCHITECT'S DRAWINGS FOR U.L. DESIGNATIONS OF WALL ASSEMBLIES.
 - 5) PROVIDE CHROME PLATED METAL WALL ESCUTCHEONS FOR ALL EXPOSED PENETRATIONS.



PVC PIPE CEILING PENETRATION DETAILS
NOT TO SCALE

- NOTE:
- 1) FOLLOW FIRE SEALANT MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
 - 2) ALL PVC PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.
 - 3) DETAIL BASED ON STI "SPEC-SEAL" FIRE STOPPING PRODUCTS, ALTERNATE MANUFACTURERS INSTALLATION REQUIREMENTS MAY VARY.
 - 4) ALL CEILING PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.
 - 5) PROVIDE CHROME PLATED METAL WALL ESCUTCHEONS FOR ALL EXPOSED PENETRATIONS.



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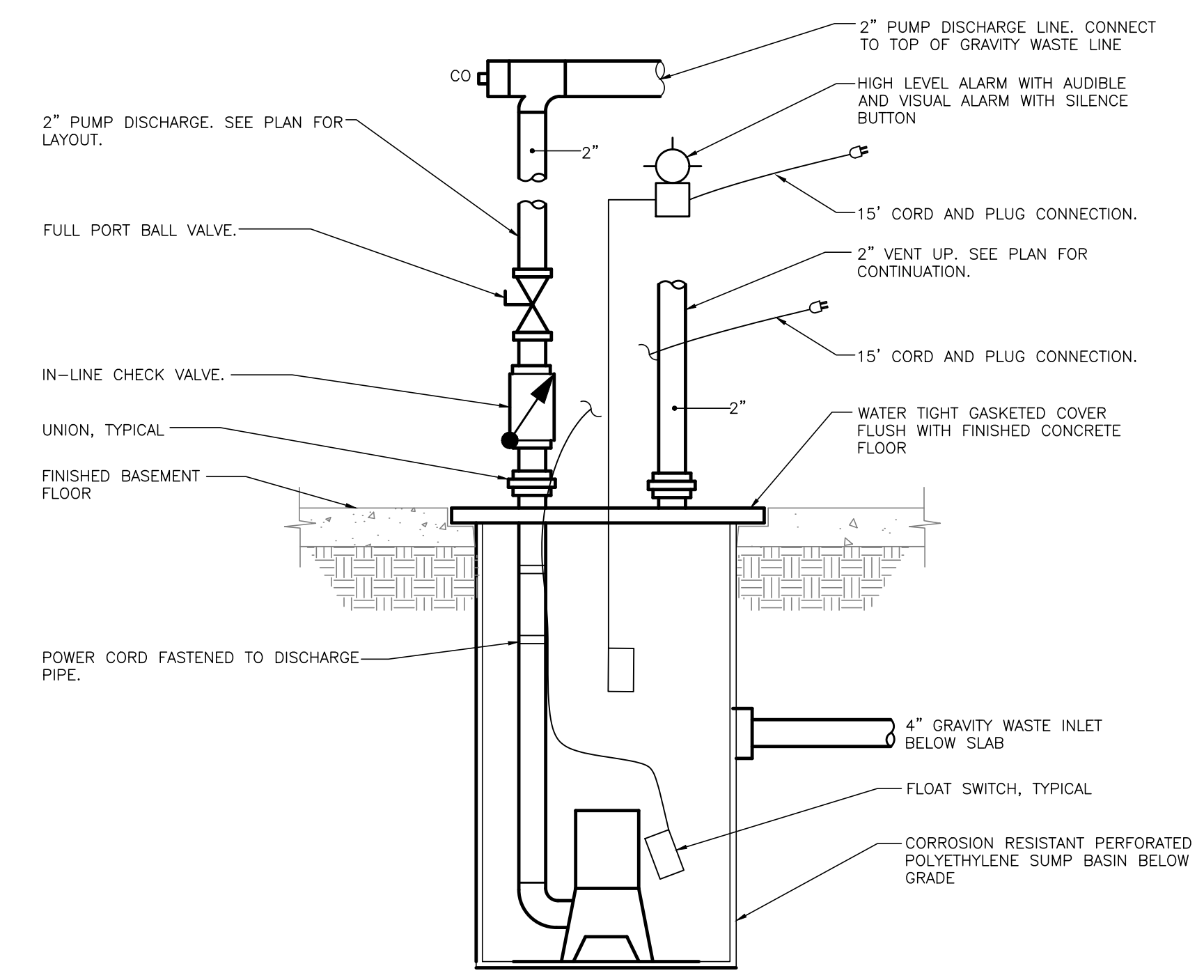
**KUA
KILTON/WELCH
DORMITORIES**

Main Street
Meriden, NH 03770
**WELCH -
PLUMBING
SCHEDULES**

PW-4.2

PLUMBING LEGEND & ABBREVIATIONS

————	SANITARY PIPING	⊗	BALL VALVE
-----	VENT PIPING	⊥	FIXTURE STOP
— · — · —	COLD WATER PIPING	⊥NFHB	NON-FREEZE HOSE BIBB
— · — · —	HOT WATER PIPING (110°F)	⊥	DRAIN VALVE
— · — · —	TEMPERED HOT WATER PIPING	⊥	PIPE STRAINER
— C —	NEW CONDENSATE DRAIN PIPING	⊥	BACKFLOW PREVENTER, SUBSCRIPT: PRZ = REDUCED PRESSURE ZONE
→	FLOW DIRECTION INDICATOR	⊕	PRESSURE GAUGE
○	PIPE RISER	⊥	CHECK VALVE
⊥	PIPE DROP	⊕	TEMPERATURE GAUGE
⊥	PIPE UNION	⊗	THERMOSTATIC MIXING VALVE
⊕ FD	FLOOR DRAIN	⊕	PRESSURE REDUCING VALVE
⊕ FR	FLOOR RECEPTOR	⊕	WATER METER
⊥ CO	CLEANOUT	⊕	DRAWING NOTE TAG
⊥ WCO	WALL CLEANOUT	P-#	PLUMBING FIXTURE TAG
⊕ FCO	FLOOR CLEANOUT	⊕	DOMESTIC WATER HEATER TAG
⊕	DRAIN PIPE HEAT RECLAIM COIL TAG	V.T.R.	VENT THROUGH ROOF



PACKAGED WASTE PUMP DETAIL
NOT TO SCALE

⊕ PROVIDE ZOELLER MODEL 900 SERIES, 18" DIAMETER PACKAGED PUMP SYSTEM WITH TOP VENT AND DISCHARGE, MODEL M53 PUMP RATED 19 GPM AT 15 FT HD. PROVIDE HIGH LEVEL ALARM, PROVIDE CORD AND PLUG WITH FACTORY INSTALLED FLOAT CONTROL UL LISTED, ELECTRICAL 3/10HP, 115V-60HZ-1PH.

⊕ PROVIDE ZOELLER MODEL M53 PUMP RATED 19 GPM AT 15 FT HD. INSTALLED IN ELEVATOR PIT AND DOES NOT REQUIRE POLYETHYLENE SUMP BASIN AS SHOWN IN DETAIL. PROVIDE HIGH LEVEL ALARM, PROVIDE CORD AND PLUG WITH FACTORY INSTALLED FLOAT CONTROL UL LISTED, ELECTRICAL 3/10HP, 115V-60HZ-1PH.

PLUMBING FIXTURE CONNECTION SCHEDULE								PLAN SYMBOL	P-#
NO.	ITEM	SOIL	WASTE	VENT	CW	HW	TRAP	REMARKS	
P-1	FLUSH TANK WATERCLOSET	3"	-	2"	1/2"	-	INTEGRAL	-	
P-1A	ACCESSIBLE FLUSH TANK WATERCLOSET	3"	-	2"	1/2"	-	INTEGRAL	-	
P-2	ACCESSIBLE COUNTER LAVATORY	-	1 1/2"	1 1/2"	1/2"	1/2"	1 1/4" X 1 1/2" P	-	
P-2A	ACCESSIBLE WALL HUNG LAVATORY	-	1 1/2"	1 1/2"	1/2"	1/2"	1 1/4" X 1 1/2" P	-	
P-3	SHOWER	-	2"	1 1/2"	1/2"	1/2"	2" - P	-	
P-3A	ACCESSIBLE SHOWER	-	2"	1 1/2"	1/2"	1/2"	2" - P	-	
P-3B	ACCESSIBLE SHOWER	-	2"	1 1/2"	1/2"	1/2"	2" - P	-	
P-3C	ACCESSIBLE SHOWER	-	2"	1 1/2"	1/2"	1/2"	2" - P	-	
P-3D	SHOWER	-	2"	1 1/2"	1/2"	1/2"	2" - P	-	
P-4	TUB SHOWER	-	2"	1 1/2"	1/2"	1/2"	2" - P	-	
P-5	KITCHEN SINK	-	2"	1 1/2"	1/2"	1/2"	1 1/2" - P	-	
P-5A	DOUBLE BOWL KITCHEN SINK	-	2"	1 1/2"	1/2"	1/2"	1 1/2" - P	-	
P-6	SERVICE SINK	-	3"	1 1/2"	1/2"	1/2"	3" P-TRAP	-	
P-7	BI-LEVEL DRINKING FOUNTAIN	-	1 1/2"	1 1/2"	1/2"	-	1 1/2" - P	-	
P-7A	BOTTLE FILLER STATION	-	1 1/2"	1 1/2"	1/2"	-	1 1/2" - P	-	
P-8	LAUNDRY VALVE	-	2"	1 1/2"	1/2"	1/2"	2" P-TRAP	PROVIDE WATER HAMMER ARRESTORS AND 36" HIGH 2" STANDPIPE	
P-9	DISHWASHER	-	1"	-	-	1/2"	I.D.	PIPE TO SINK TAILPIECE	